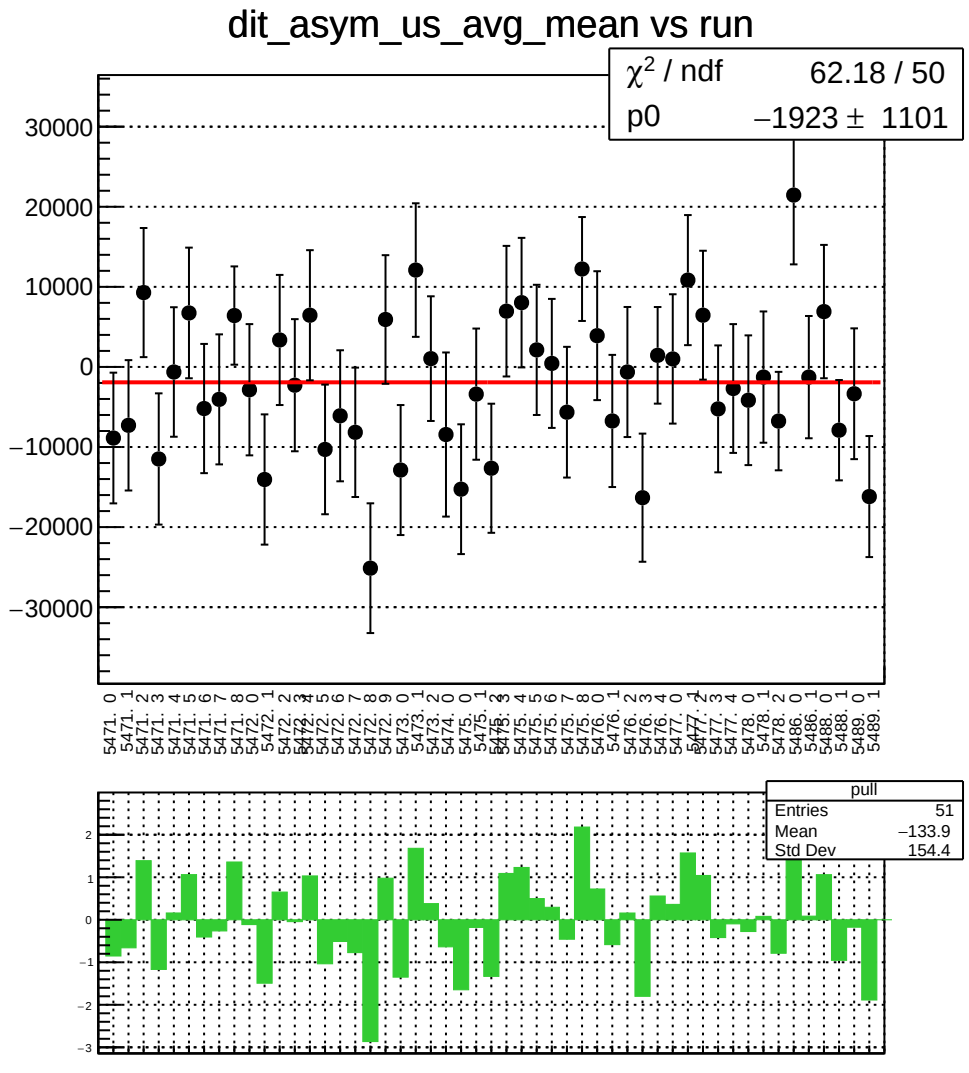
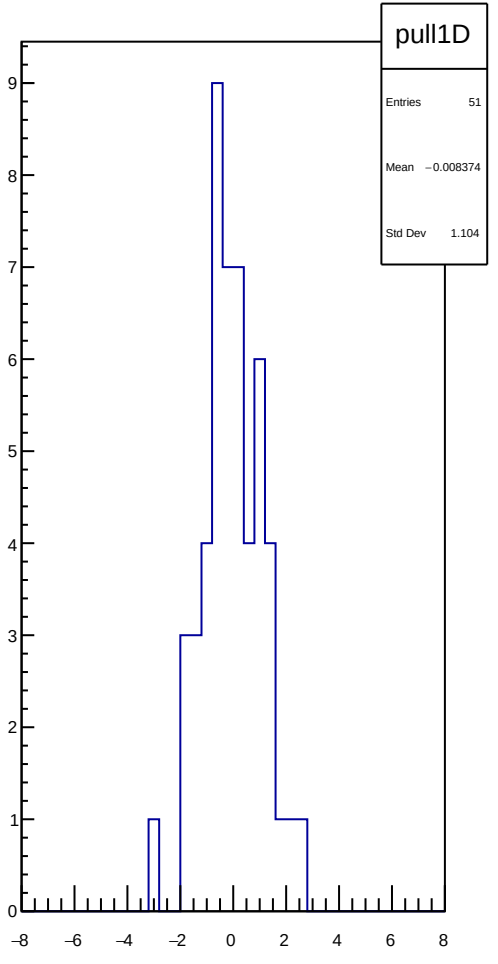
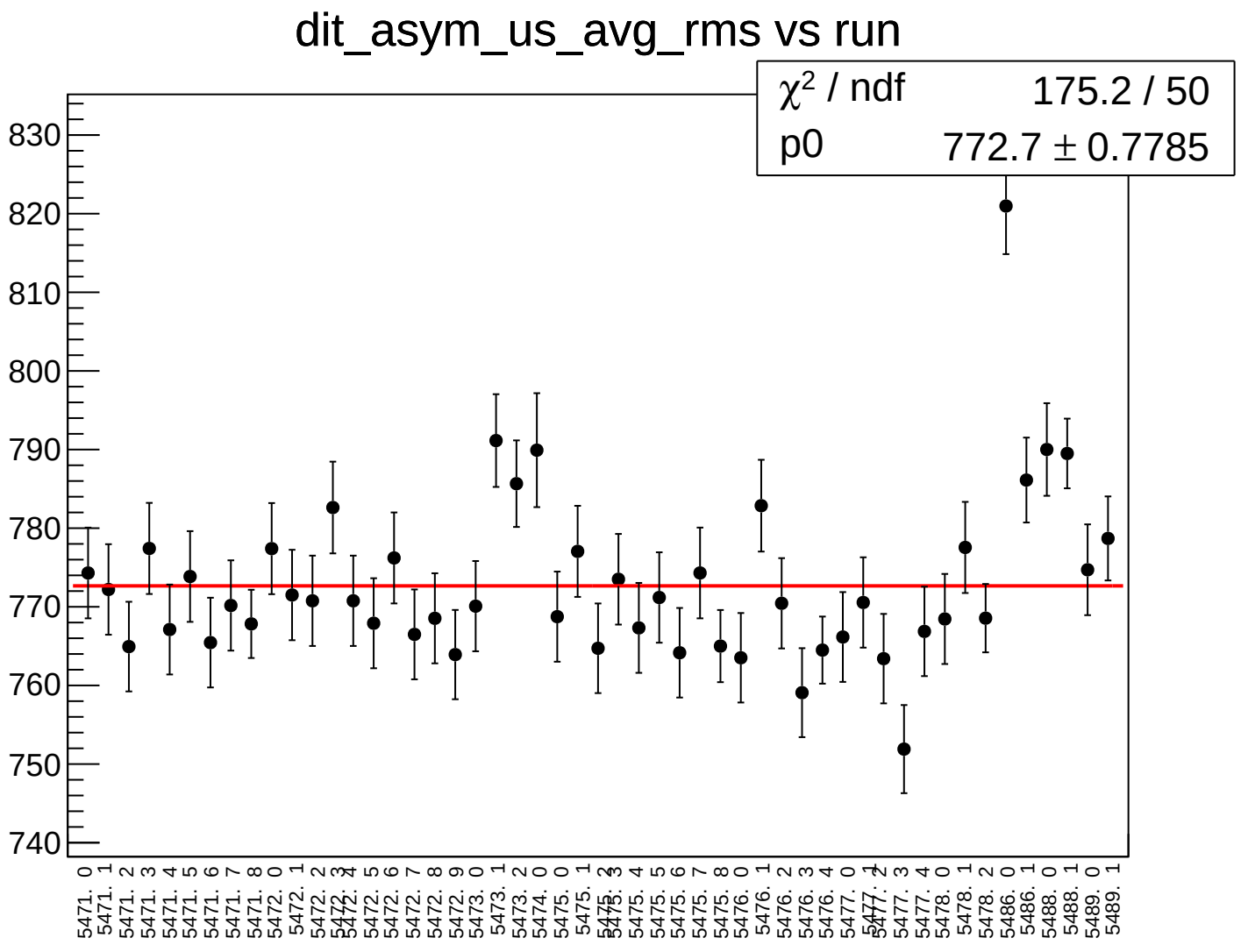
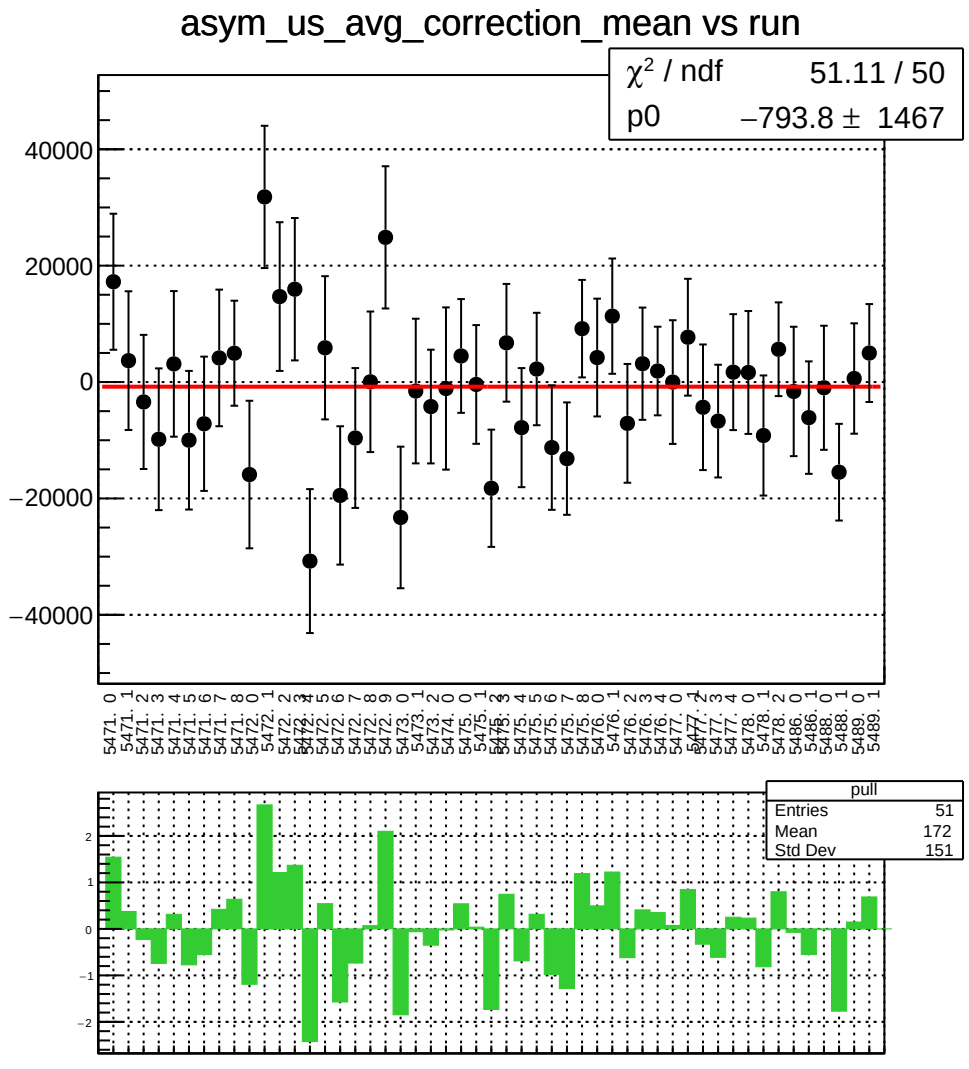
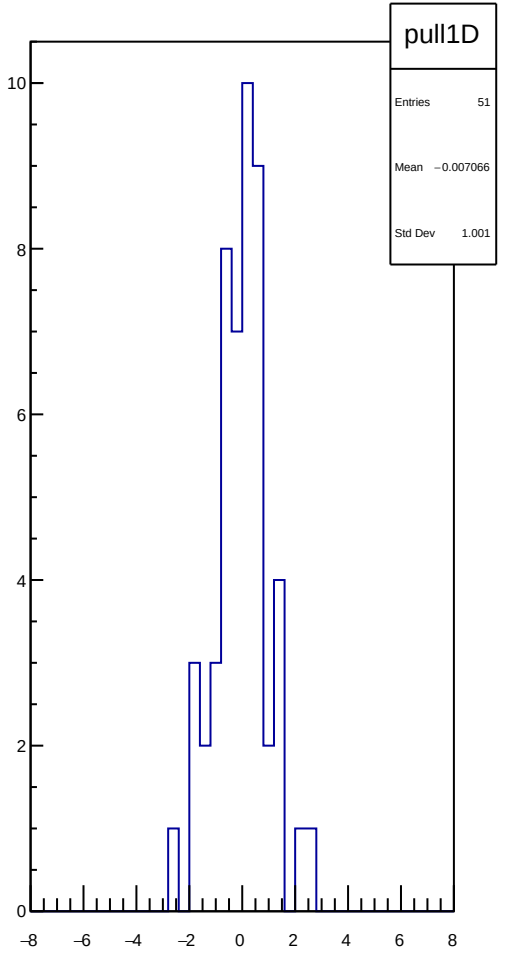
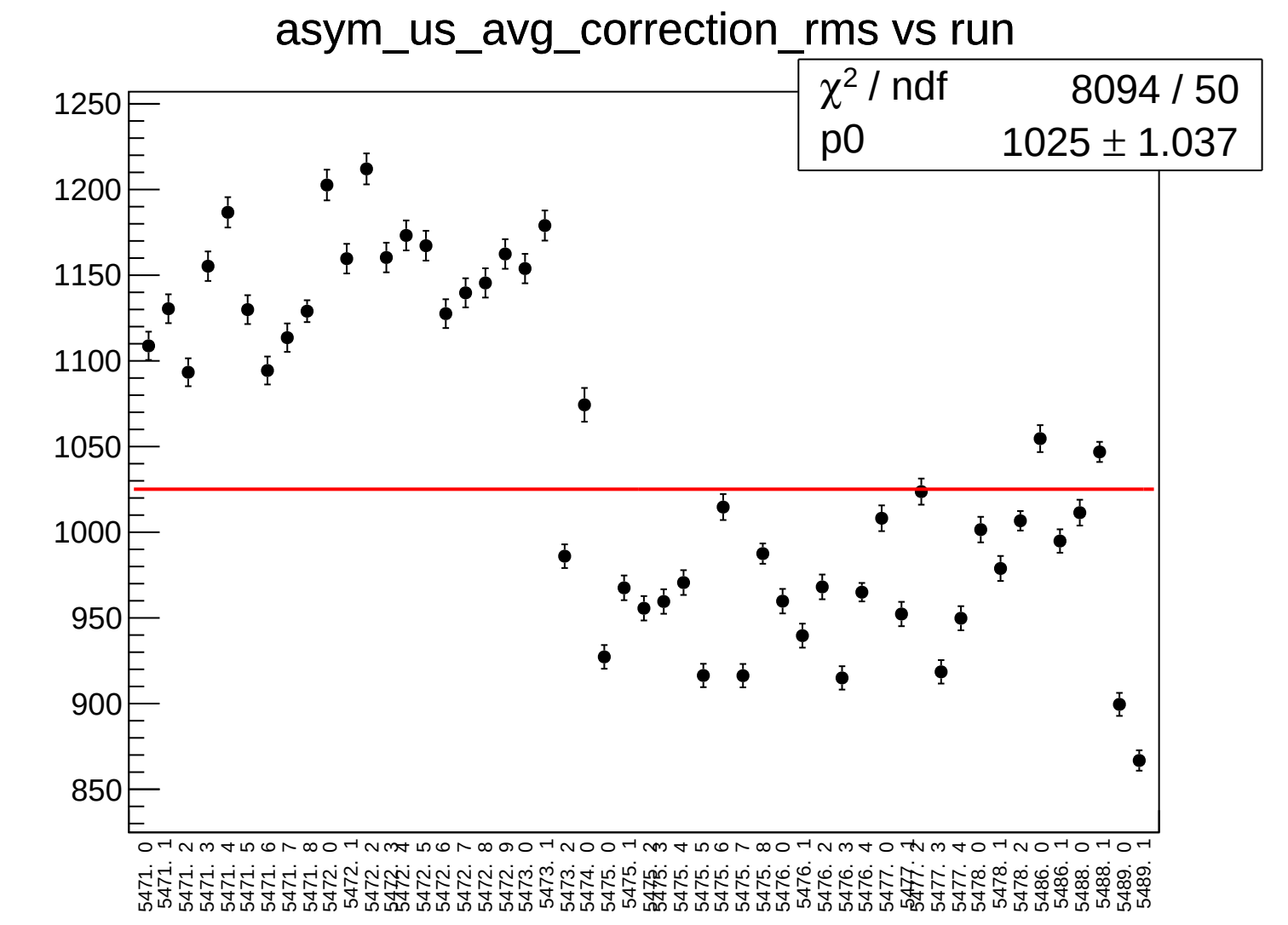

dit_asym_us_avg_mean vs run
χ² / ndf 62.18 / 50
p0 −1923 ± 1101
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −133.9
Std Dev 154.4
2
1
0
−1
−2
−3

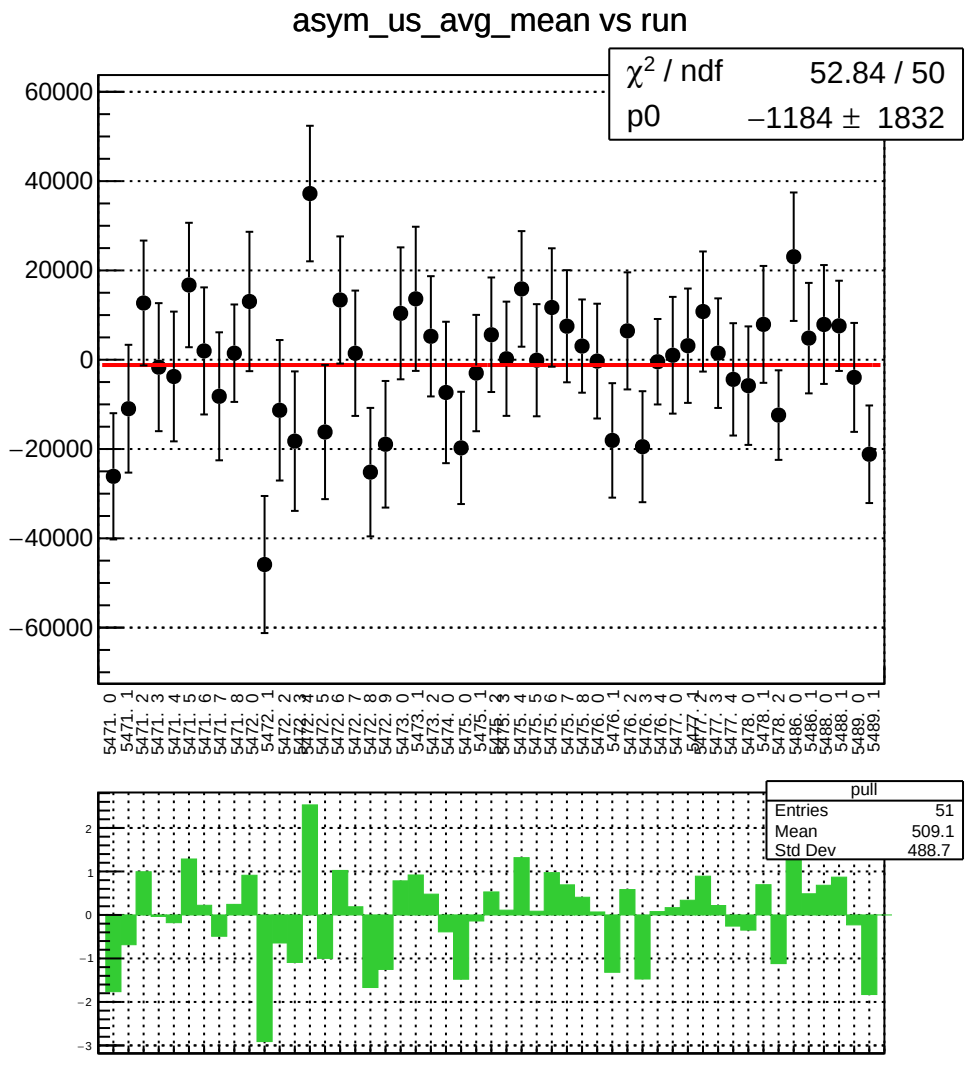

pull1D
Entries 51
Mean −0.008374
Std Dev 1.104
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

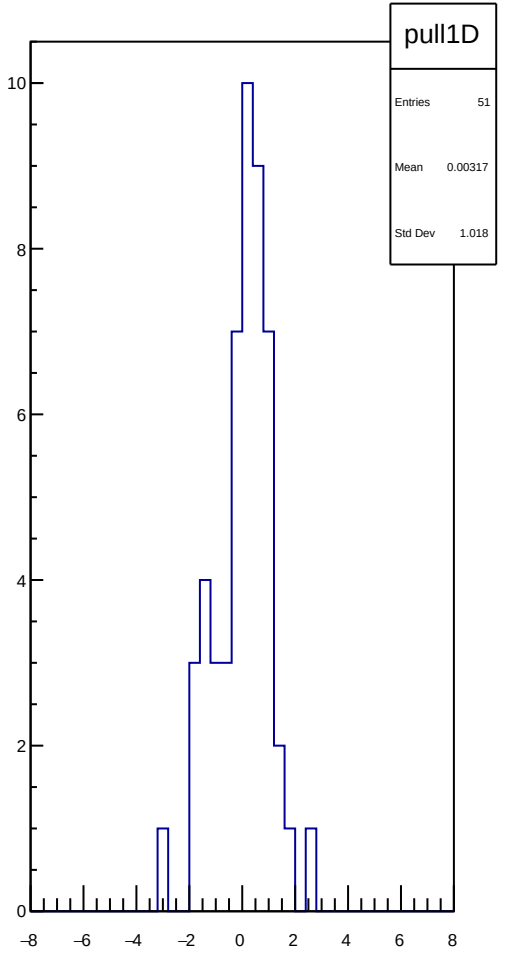

dit_asym_us_avg_rms vs run
χ^2 / ndf 175.2 / 50
p0 772.7 ± 0.7785
830
820
810
800
790
780
770
760
750
740
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

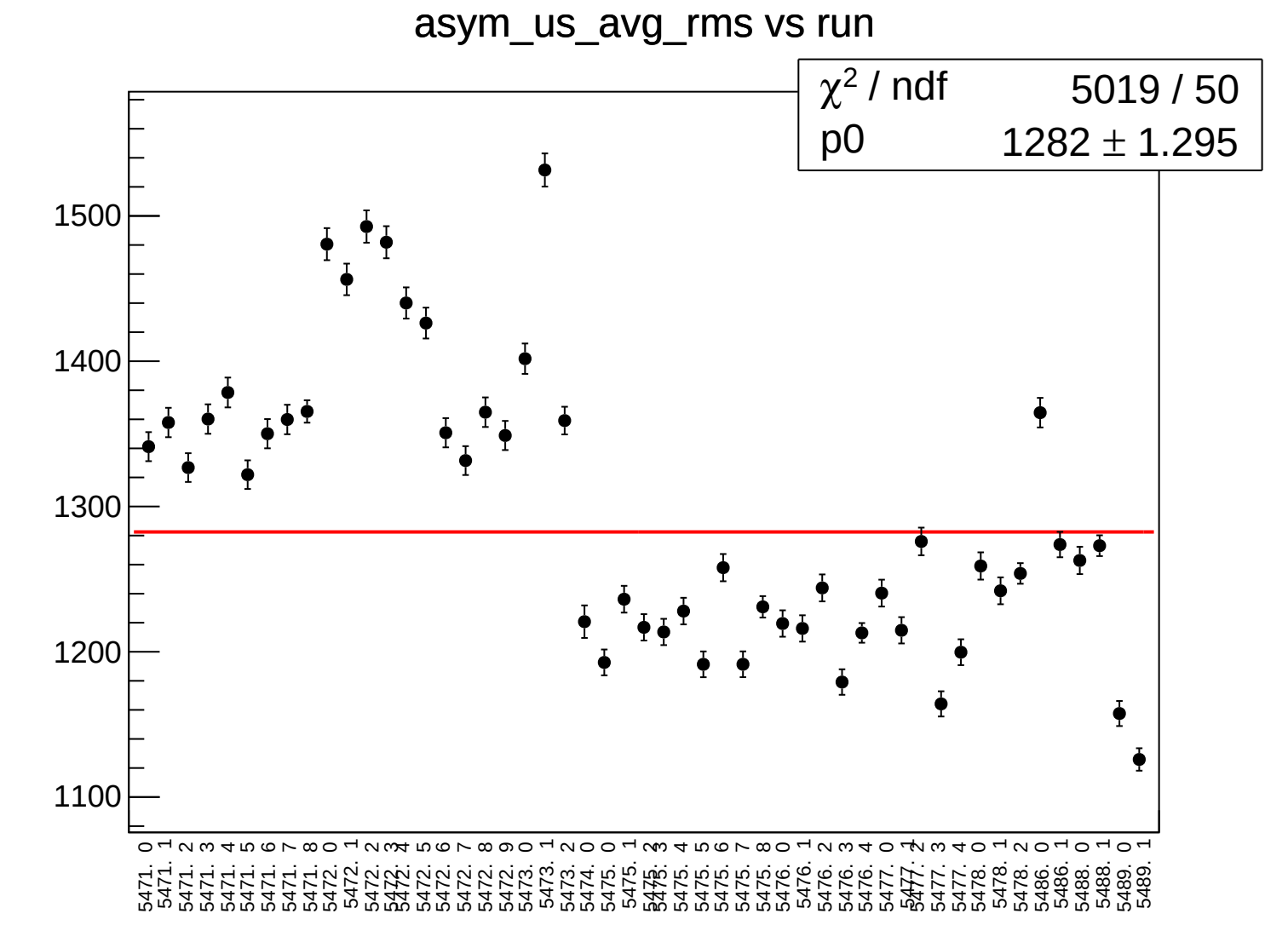

asym_us_avg_correction_mean vs run
χ² / ndf 51.11 / 50
p0 −793.8 ± 1467
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 172
Std Dev 151
2
1
0
−1
−2

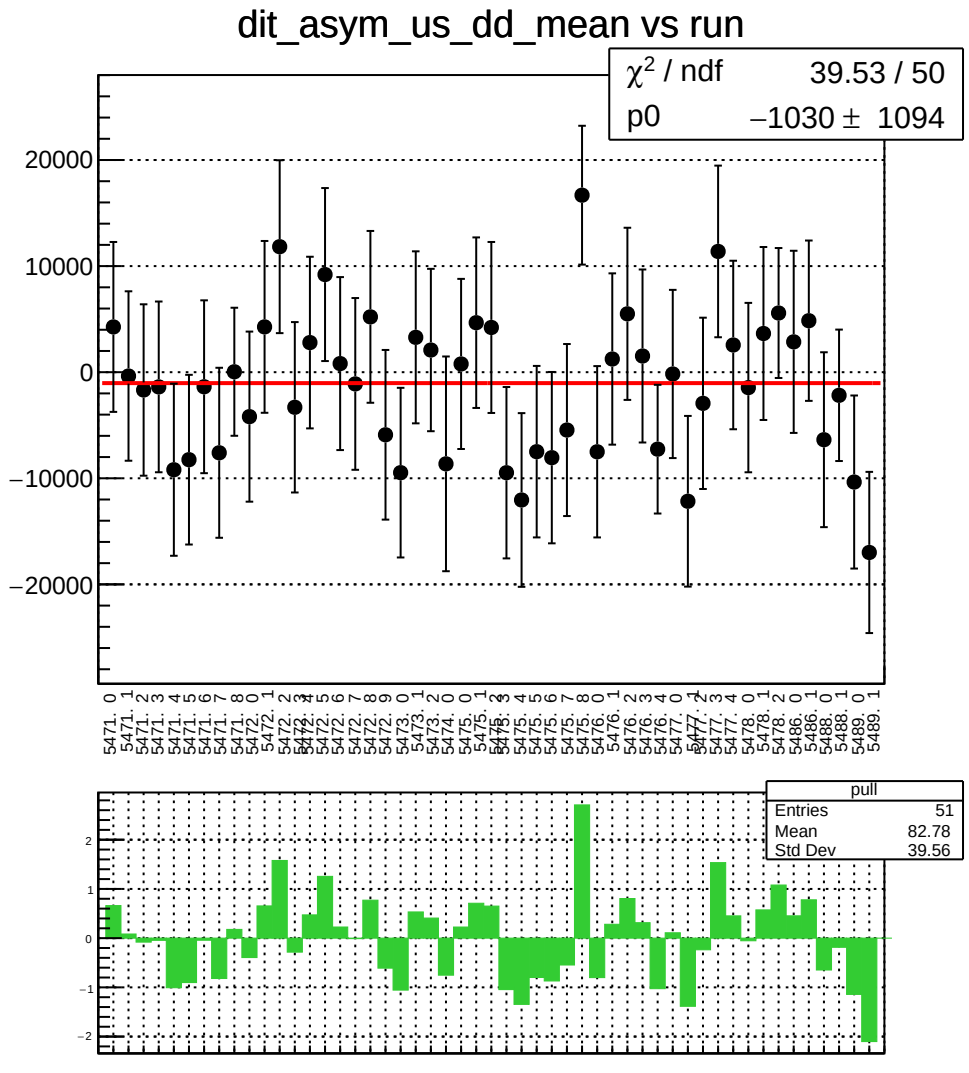

pull1D
Entries 51
Mean −0.007066
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

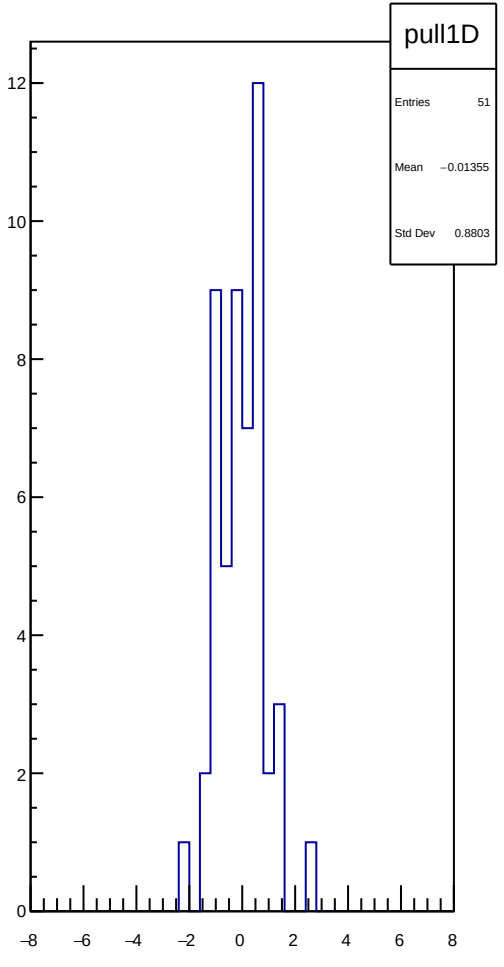

asym_us_avg_correction_rms vs run
χ² / ndf 8094 / 50
p0 1025 ± 1.037
1250
1200
1150
1100
1050
1000
950
900
850
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

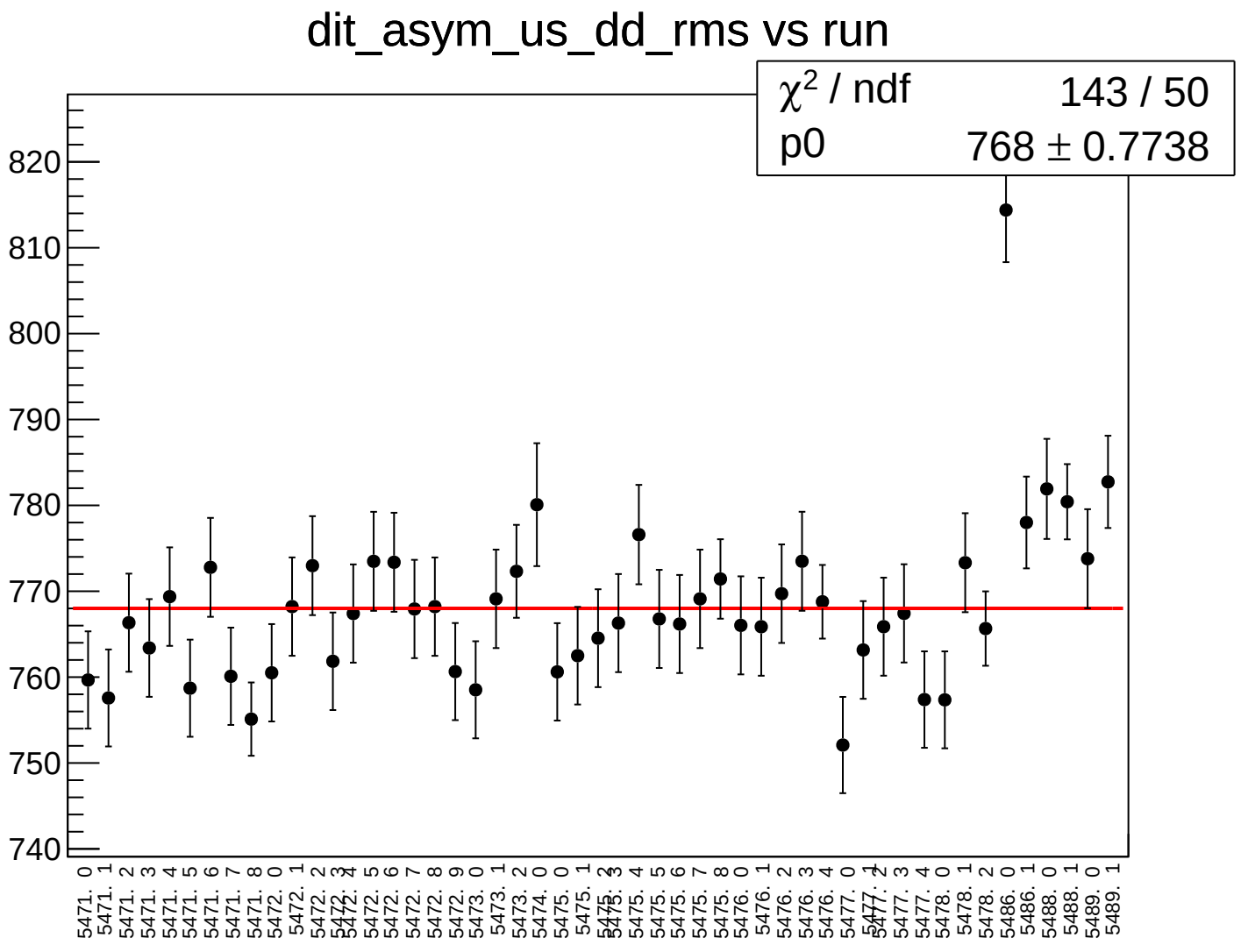

asym_us_avg_mean vs run
χ² / ndf 52.84 / 50
p0 −1184 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 509.1
Std Dev 488.7
2
1
0
−1
−2
−3

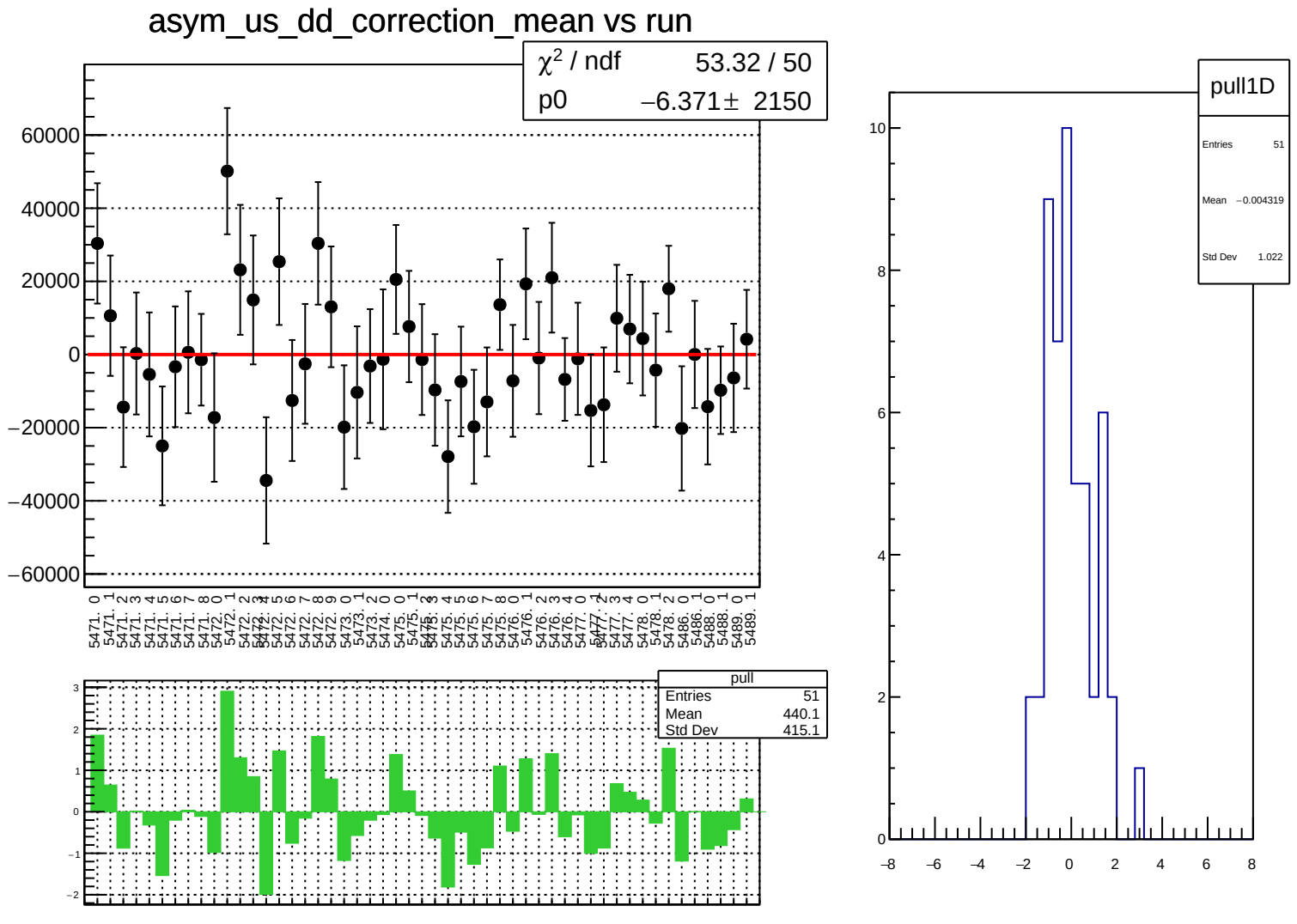

pull1D
Entries 51
Mean 0.00317
Std Dev 1.018
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

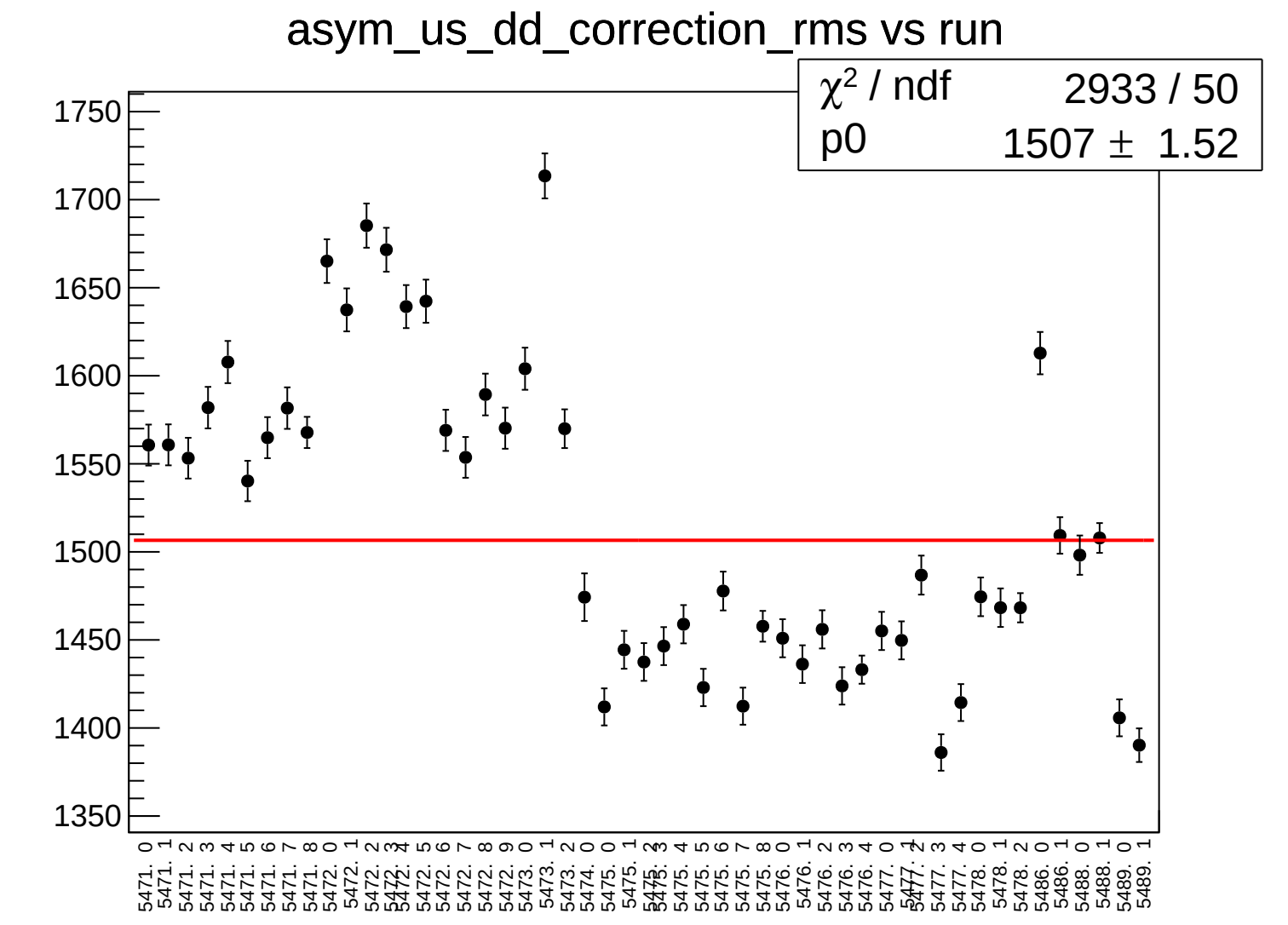

asym_us_avg_rms vs run
χ² / ndf 5019 / 50
p0 1282 ± 1.295
1500
1400
1300
1200
1100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

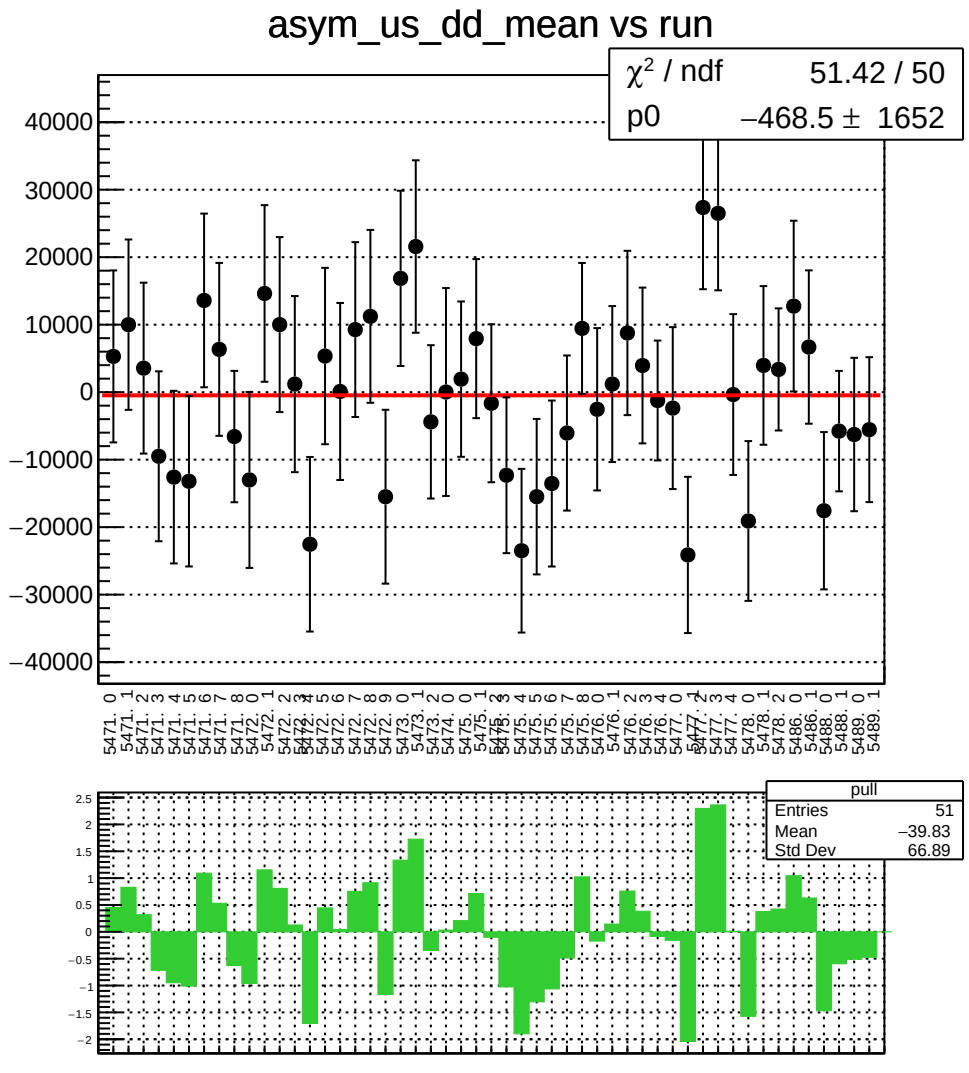

dit_asym_us_dd_mean vs run
χ² / ndf 39.53 / 50
p0 −1030 ± 1094
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 82.78
Std Dev 39.56
2
1
0
−1
−2

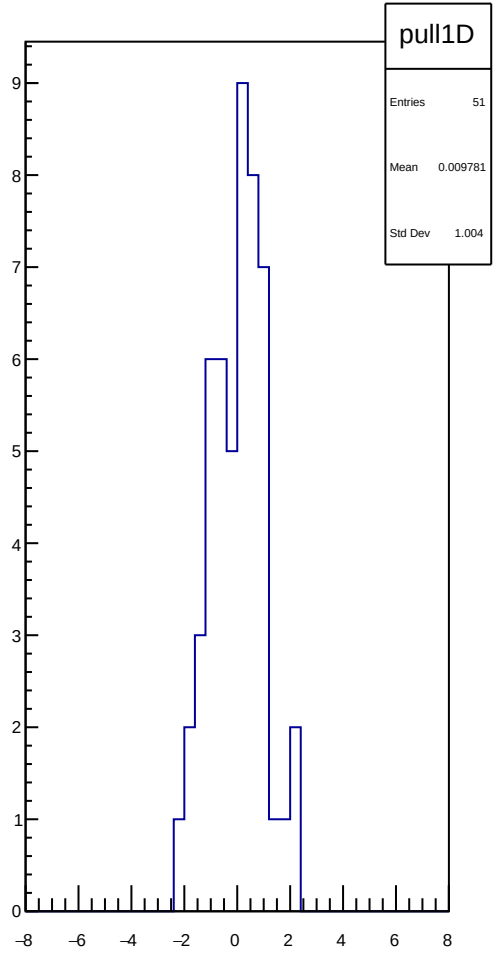

pull1D
Entries 51
Mean −0.01355
Std Dev 0.8803
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

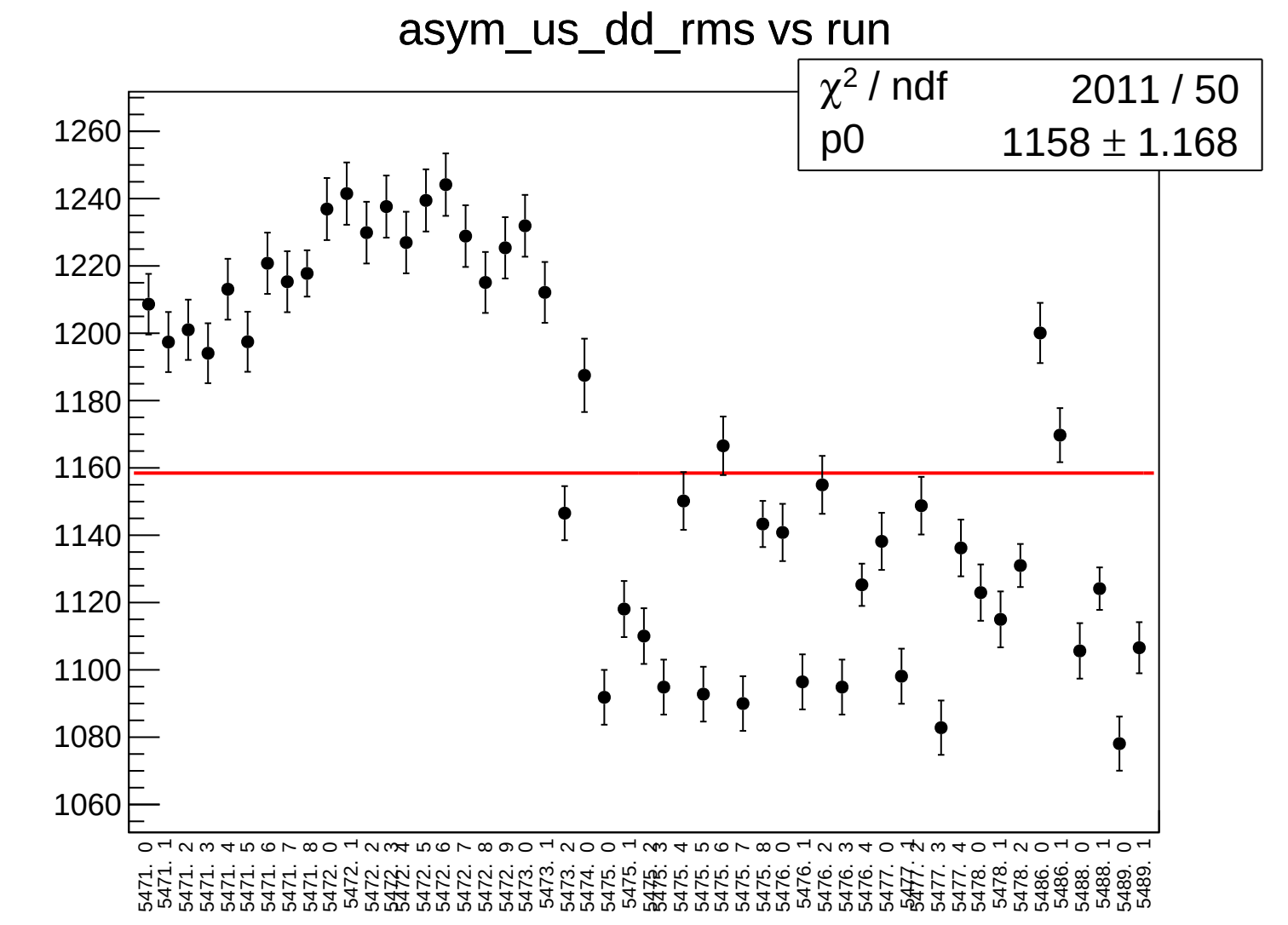

dit_asym_us_dd_rms vs run
χ² / ndf 143 / 50
p0 768 ± 0.7738
820
810
800
790
780
770
760
750
740
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

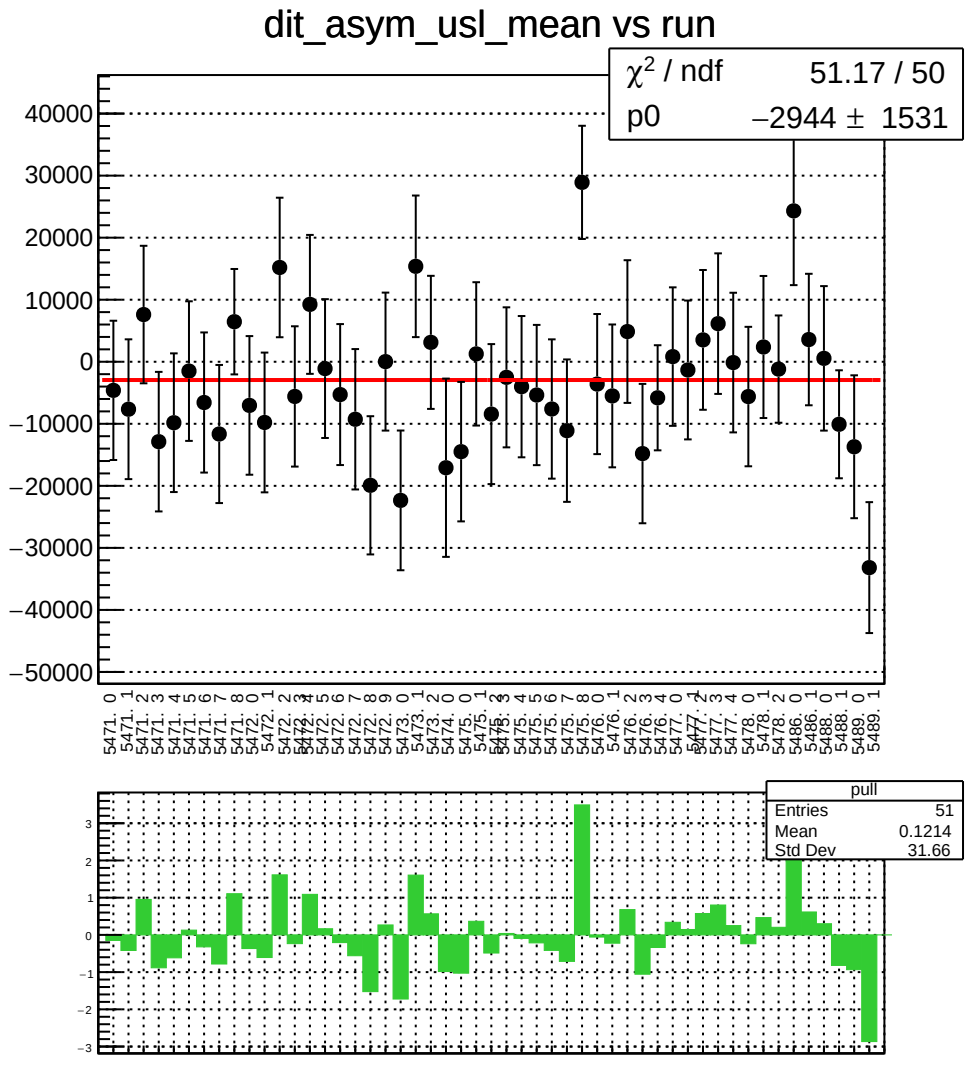

asym_us_dd_correction_mean vs run
χ² / ndf 53.32 / 50
p0 −6.371± 2150
pull
Entries 51
Mean 440.1
Std Dev 415.1
pull1D
Entries 51
Mean −0.004319
Std Dev 1.022

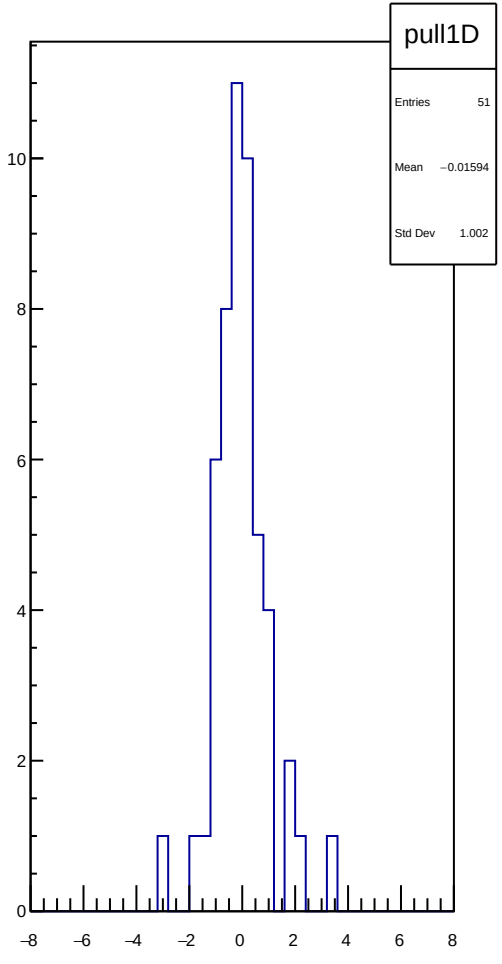

asym_us_dd_correction_rms vs run
χ² / ndf 2933 / 50
p0 1507 ± 1.52
1750
1700
1650
1600
1550
1500
1450
1400
1350
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

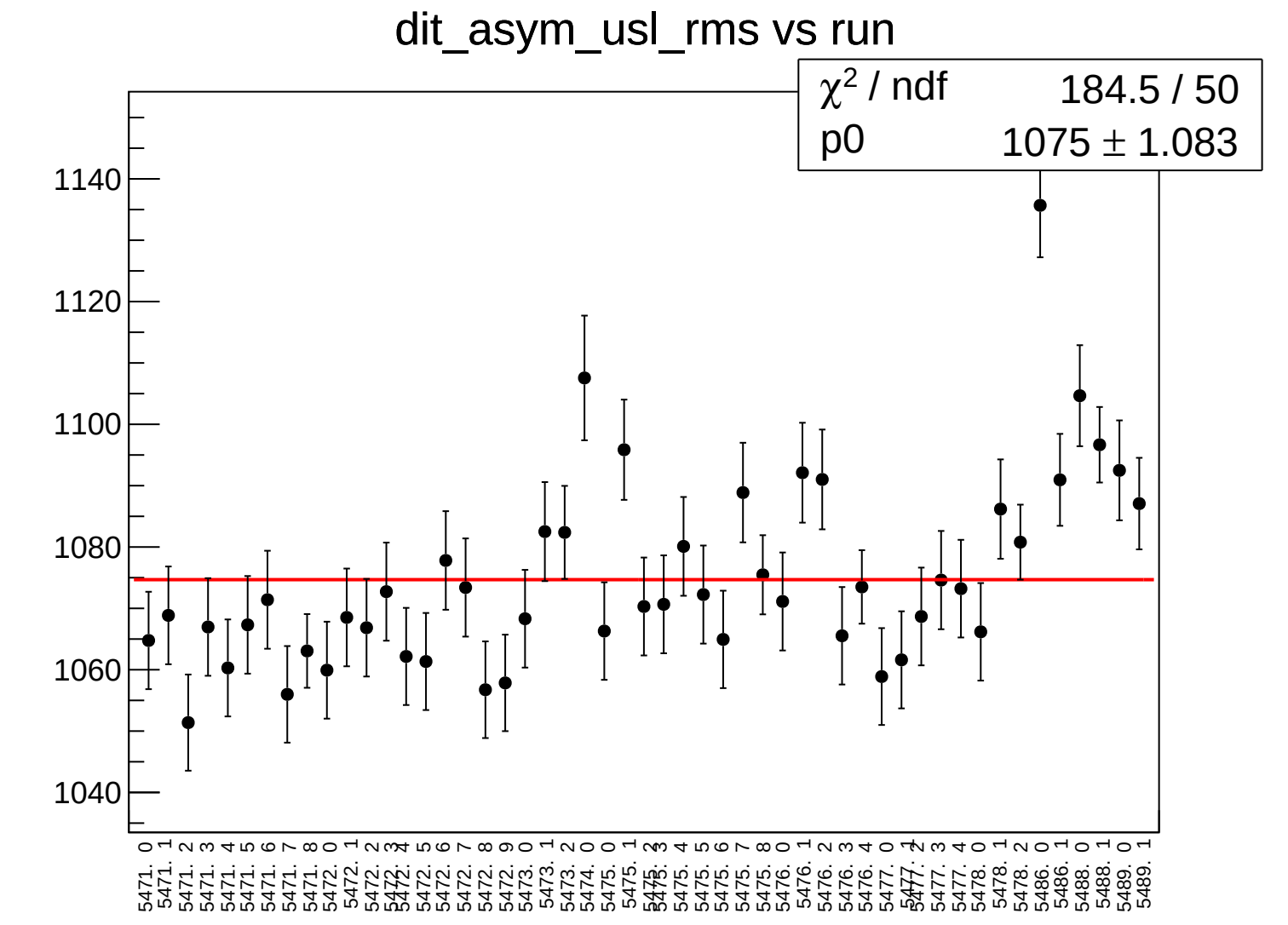

asym_us_dd_mean vs run
χ² / ndf 51.42 / 50
p0 −468.5 ± 1652
pull
Entries 51
Mean −39.83
Std Dev 66.89


pull1D
Entries 51
Mean 0.009781
Std Dev 1.004


asym_us_dd_rms vs run
χ² / ndf 2011 / 50
p0 1158 ± 1.168
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


dit_asym_usl_mean vs run
χ^2 / ndf 51.17 / 50
p0 −2944 ± 1531
pull
Entries 51
Mean 0.1214
Std Dev 31.66


pull1D
Entries 51
Mean −0.01594
Std Dev 1.002


dit_asym_usl_rms vs run
χ² / ndf 184.5 / 50
p0 1075 ± 1.083
1140
1120
1100
1080
1060
1040
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
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5478. 1
5478. 2
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5486. 1
5488. 0
5488. 1
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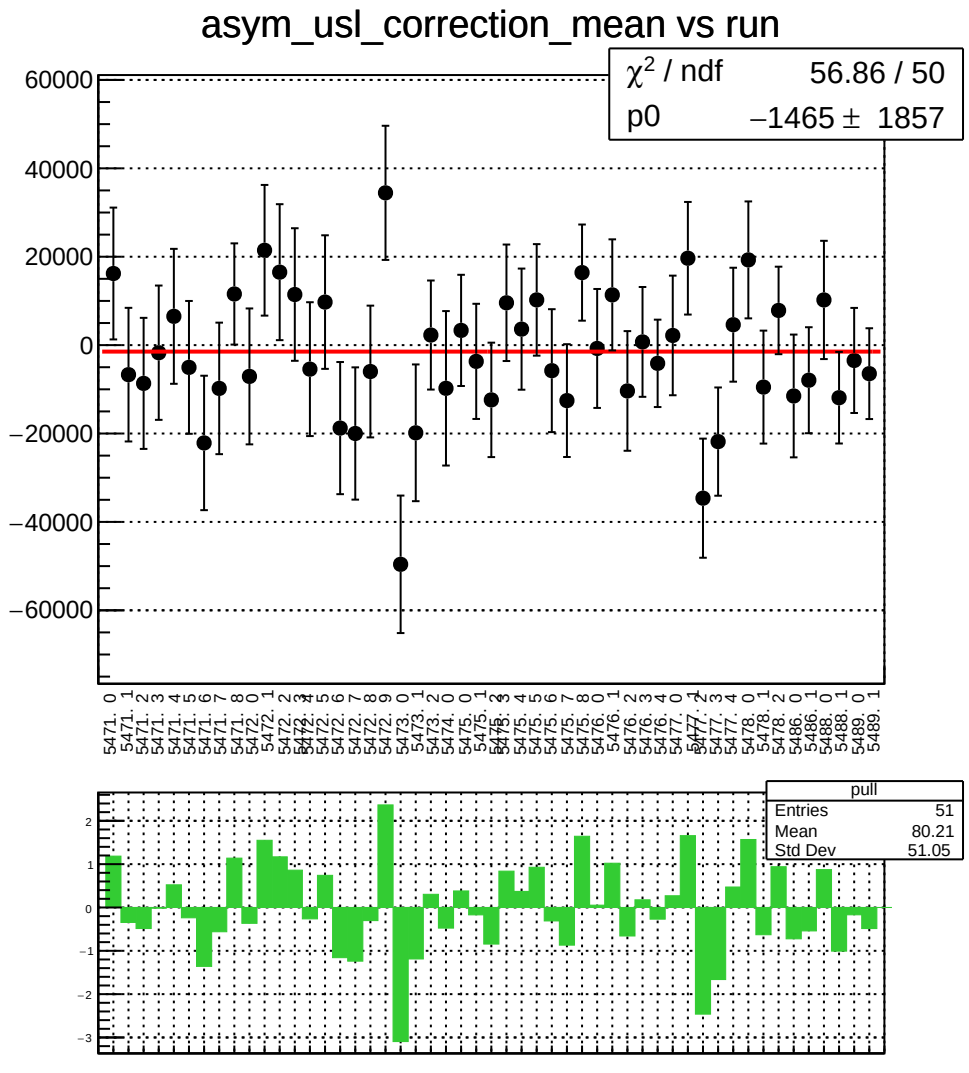
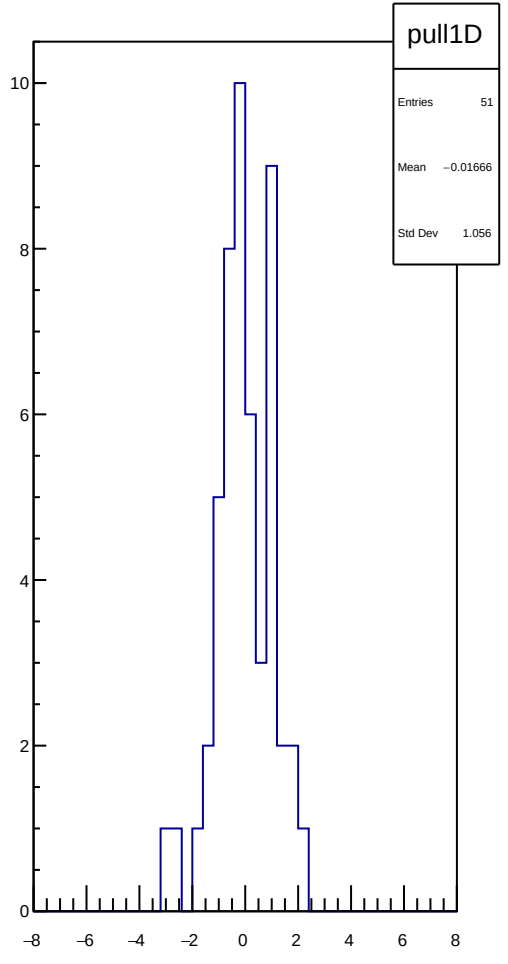
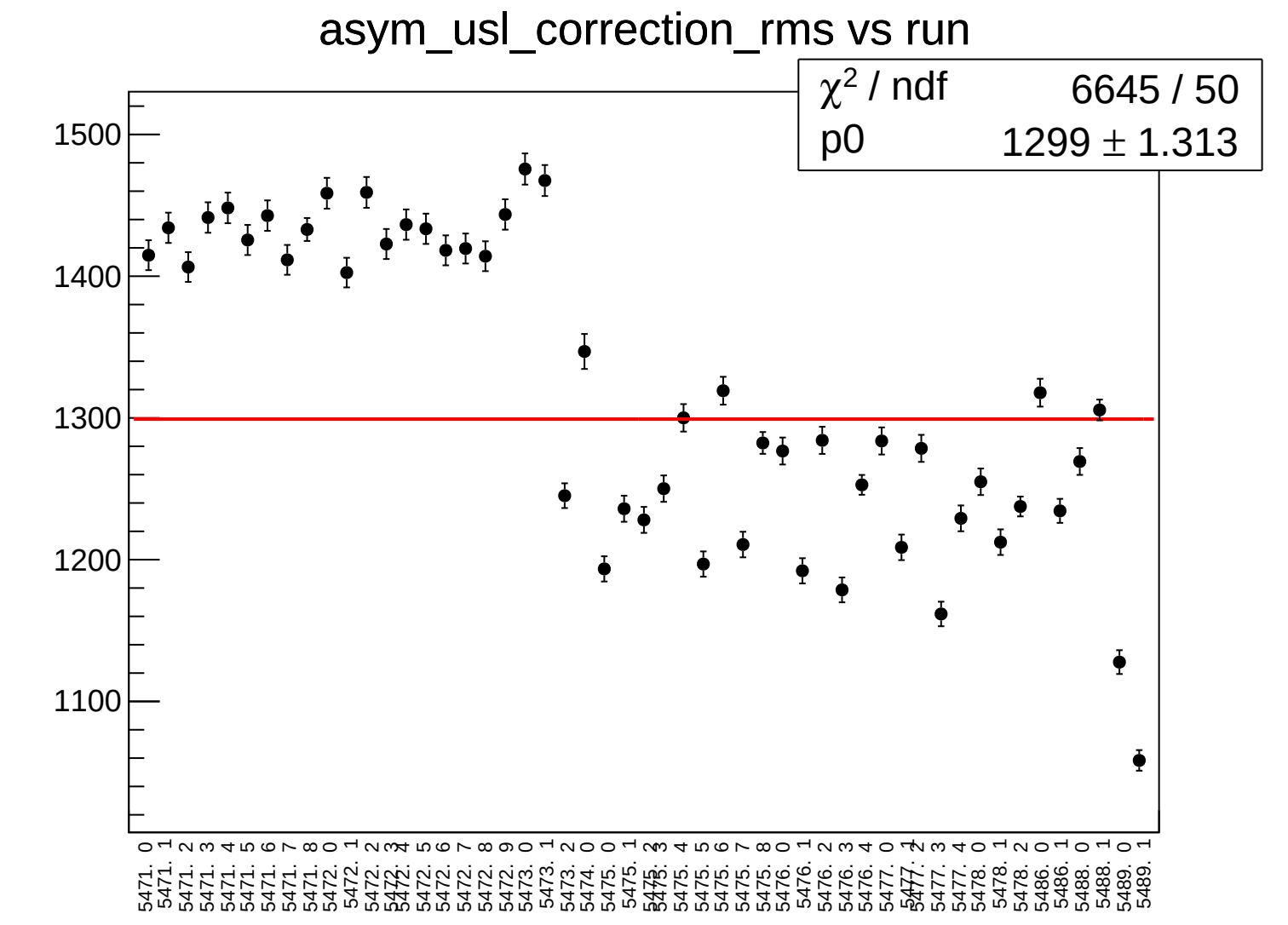
5489. 1


asym_usl_correction_mean vs run
χ² / ndf 56.86 / 50
p0 −1465 ± 1857
pull
Entries 51
Mean 80.21
Std Dev 51.05


pull1D
Entries 51
Mean −0.01666
Std Dev 1.056


asym_usl_correction_rms vs run
χ² / ndf 6645 / 50
p0 1299 ± 1.313
1500
1400
1300
1200
1100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
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5478. 2
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5486. 1
5488. 0
5488. 1
5489. 0
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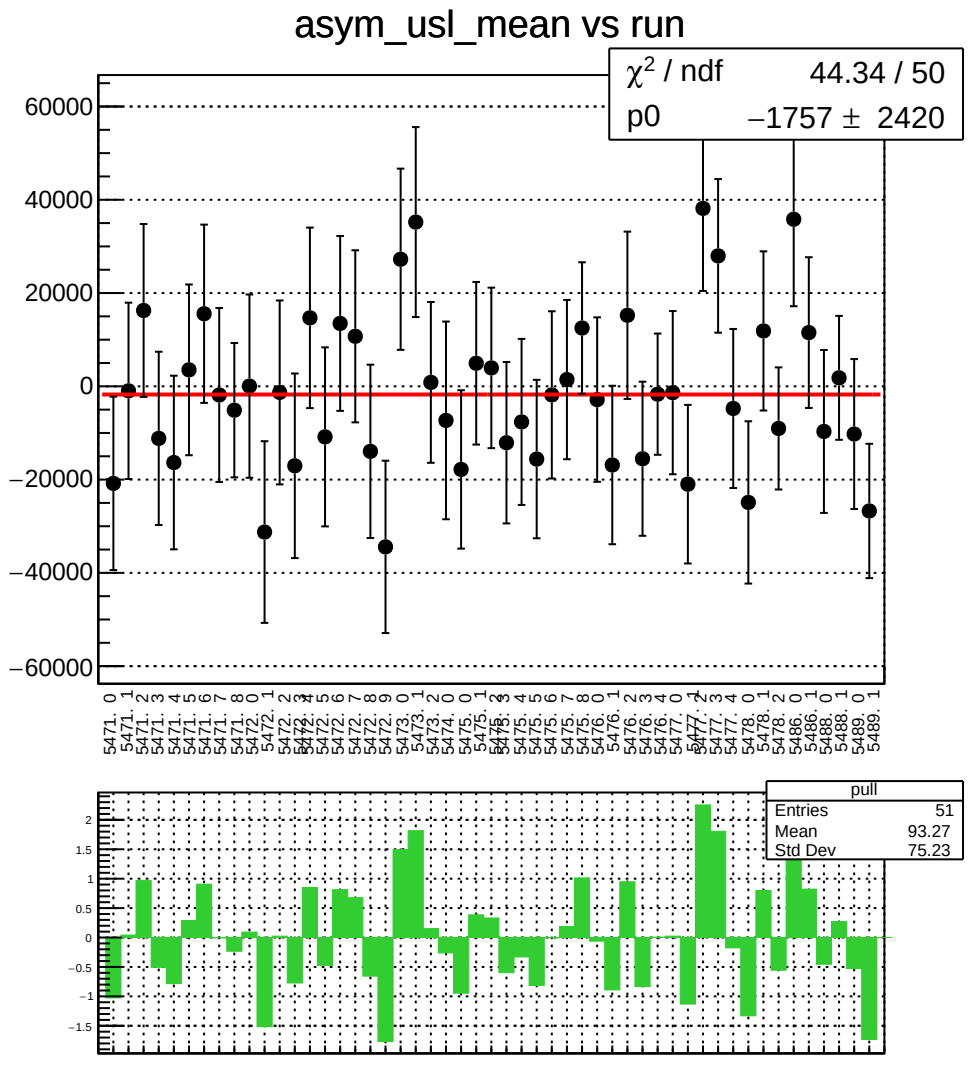
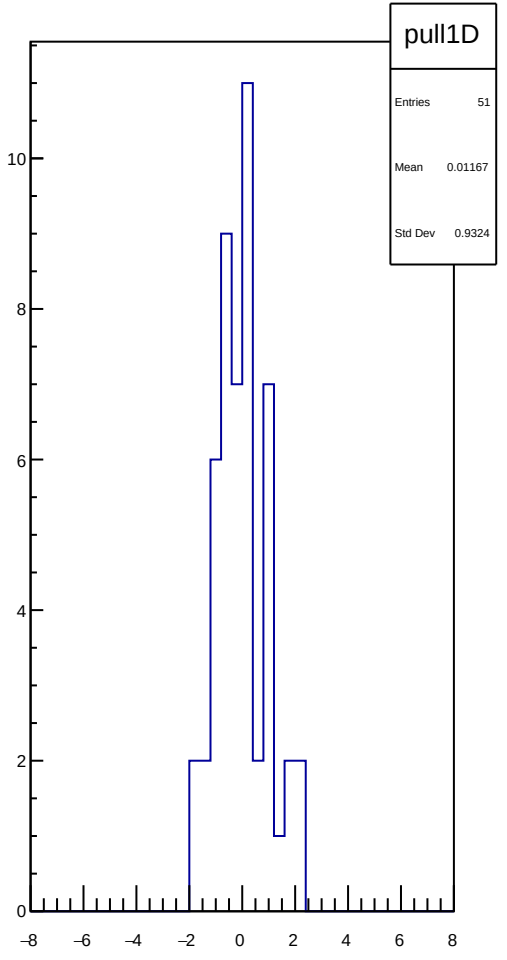
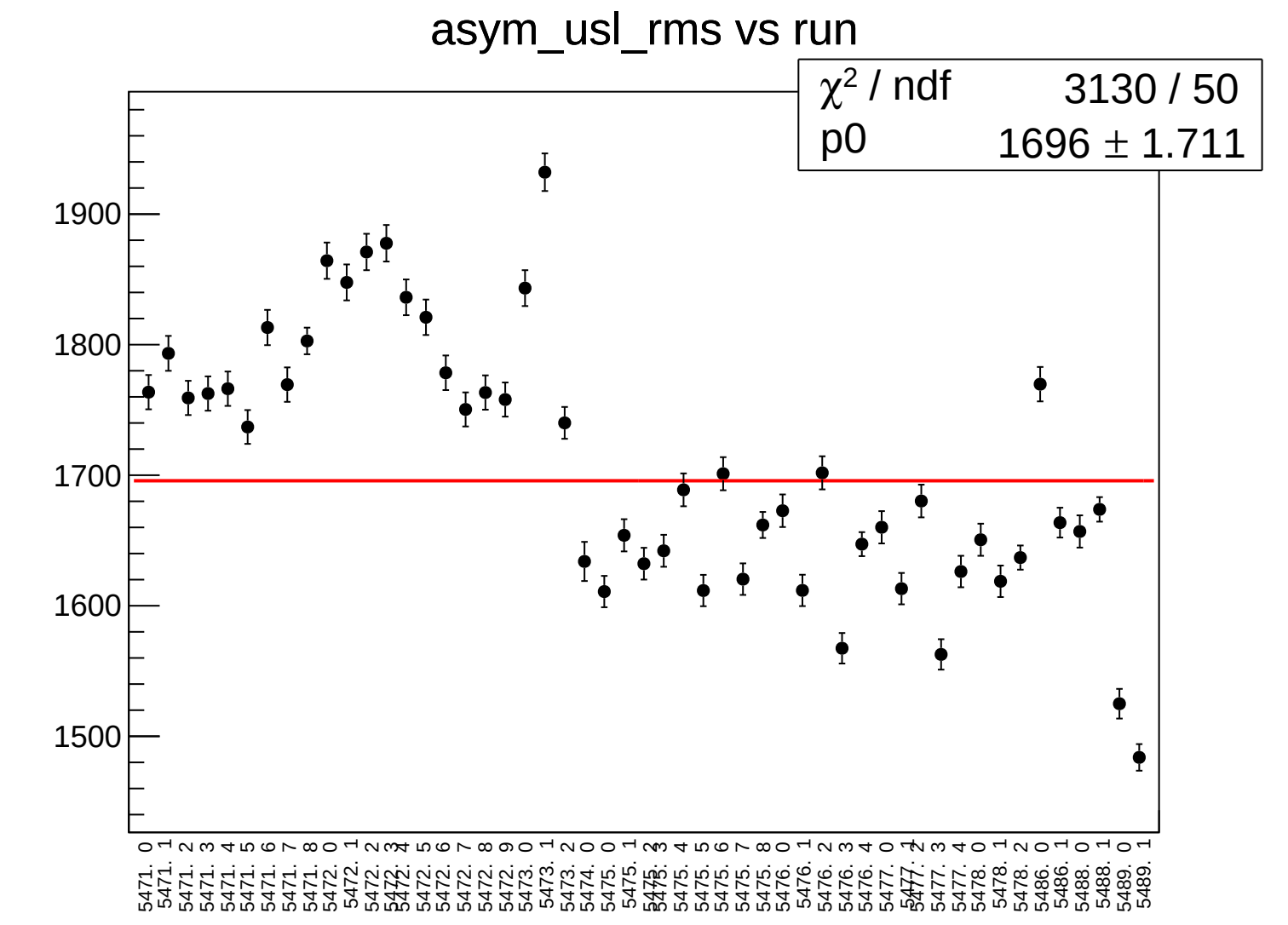
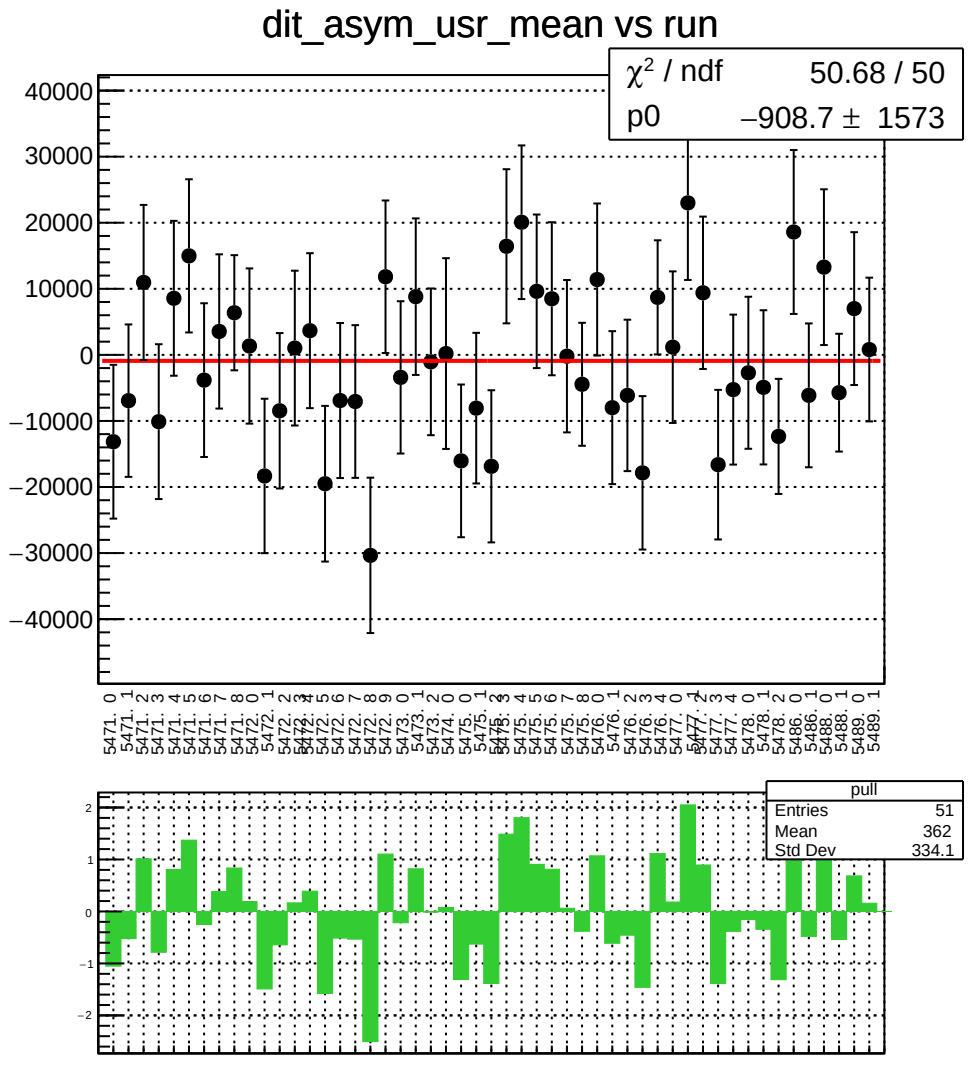
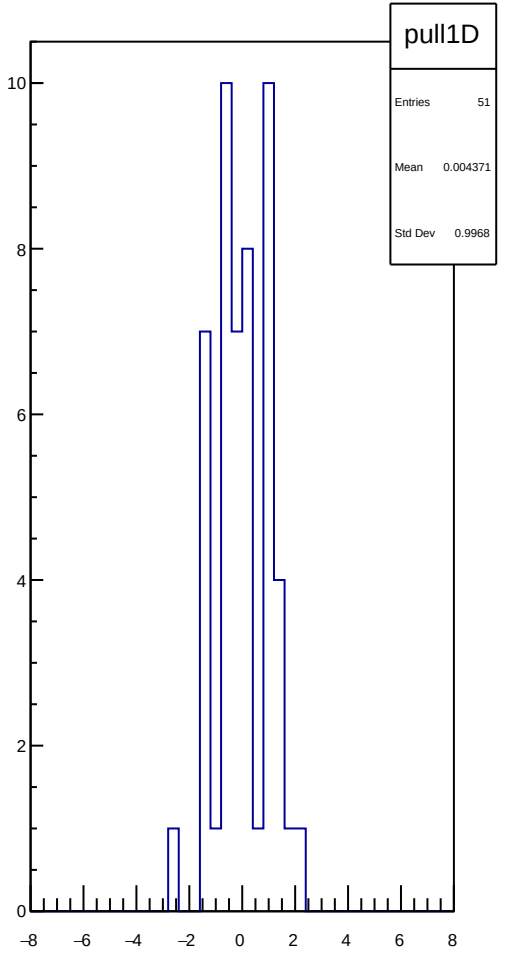
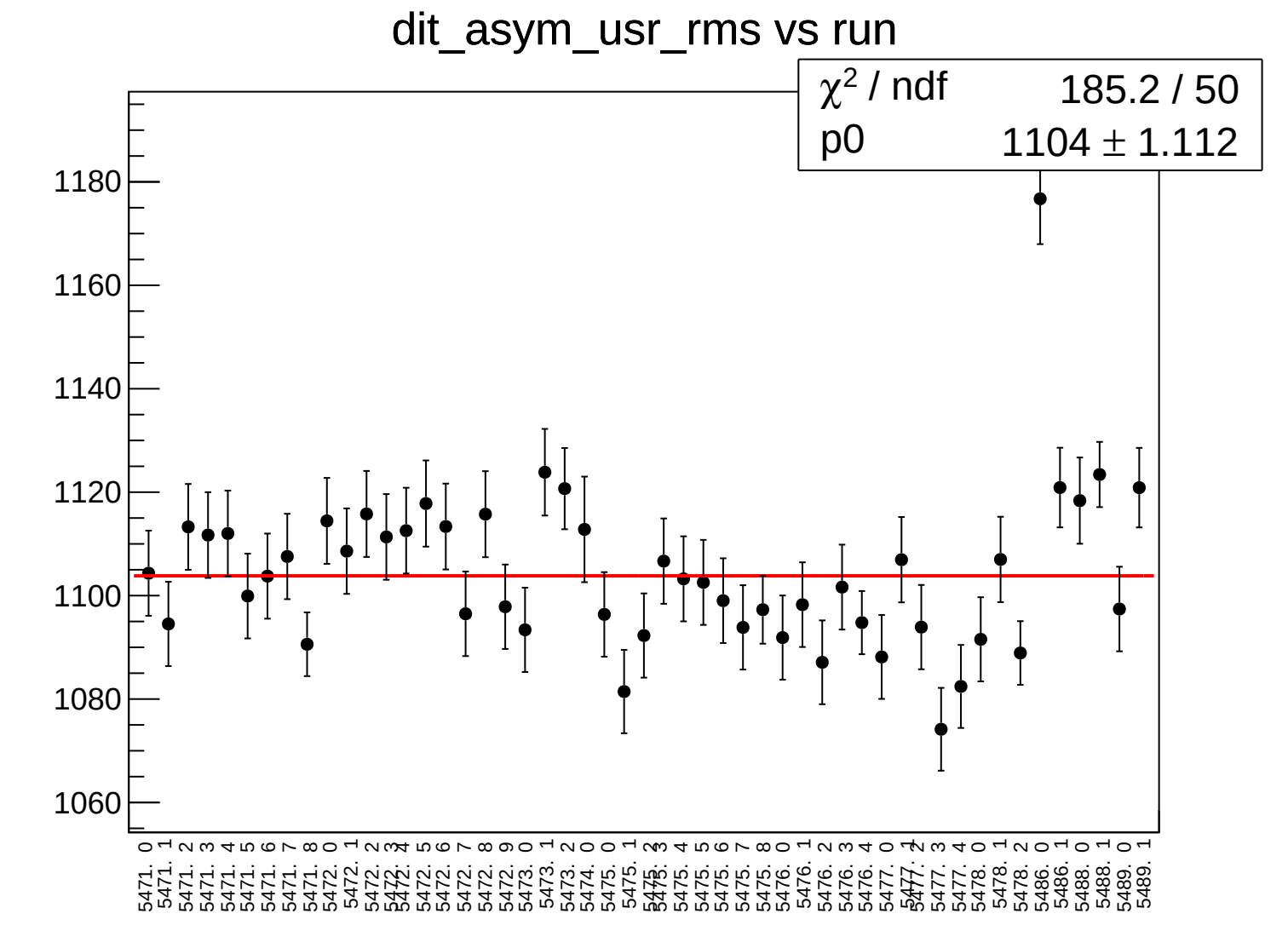

asym_usl_mean vs run
χ² / ndf 44.34 / 50
p0 −1757 ± 2420
pull
Entries 51
Mean 93.27
Std Dev 75.23

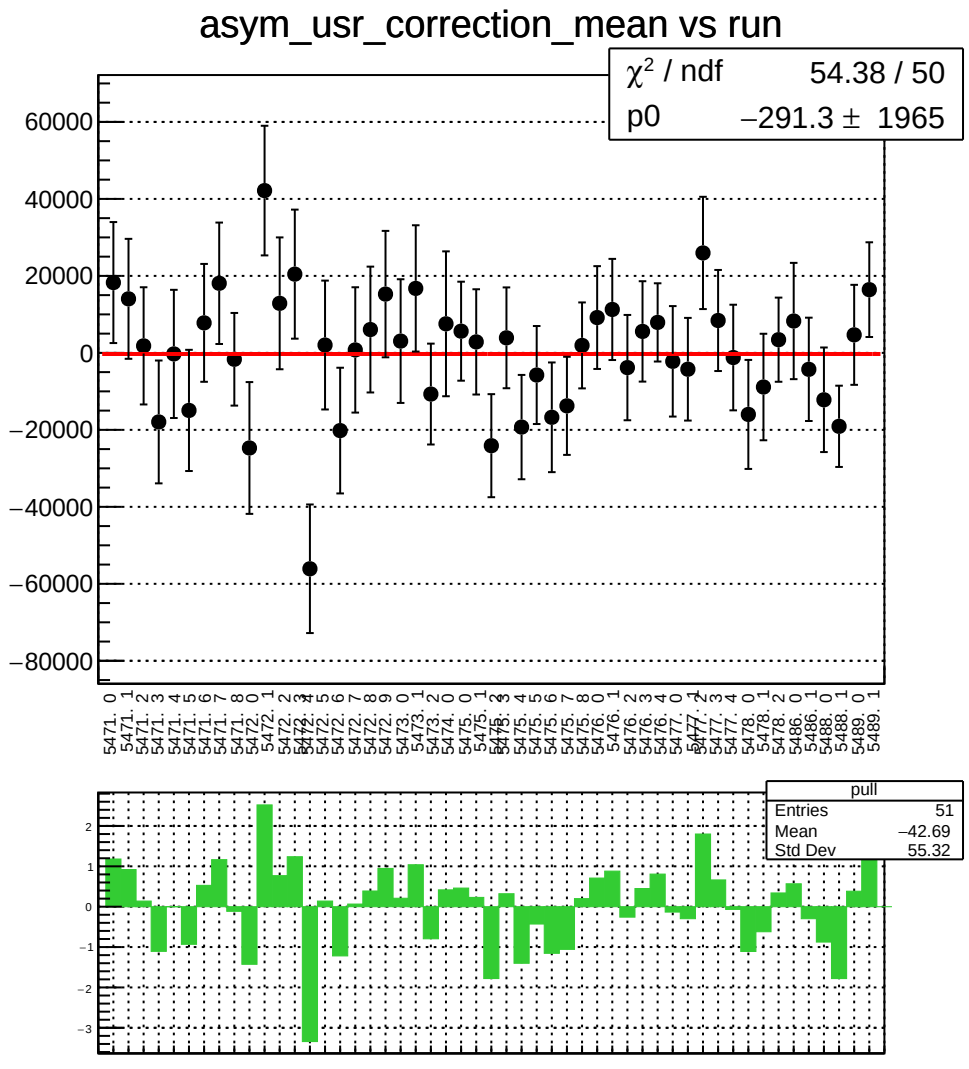

pull1D
Entries 51
Mean 0.01167
Std Dev 0.9324

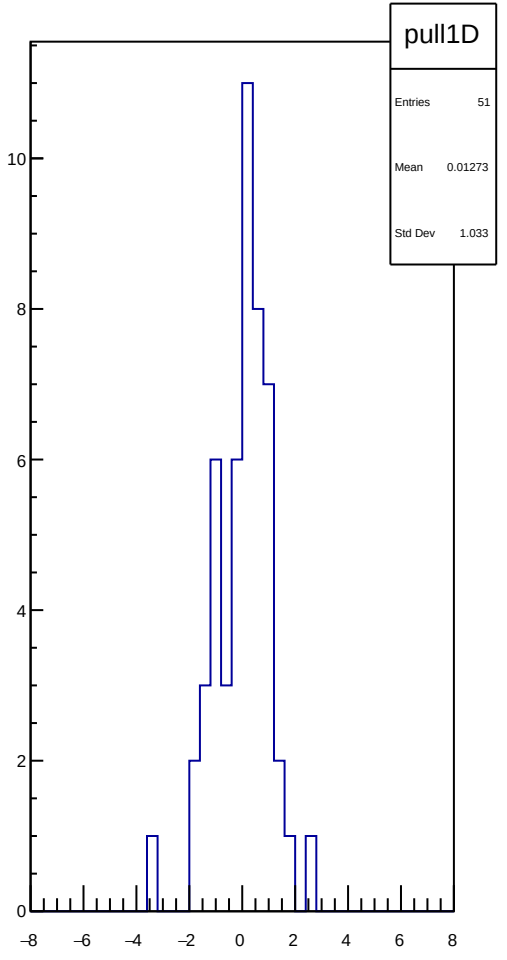

asym_usl_rms vs run
χ² / ndf 3130 / 50
p0 1696 ± 1.711
1900
1800
1700
1600
1500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

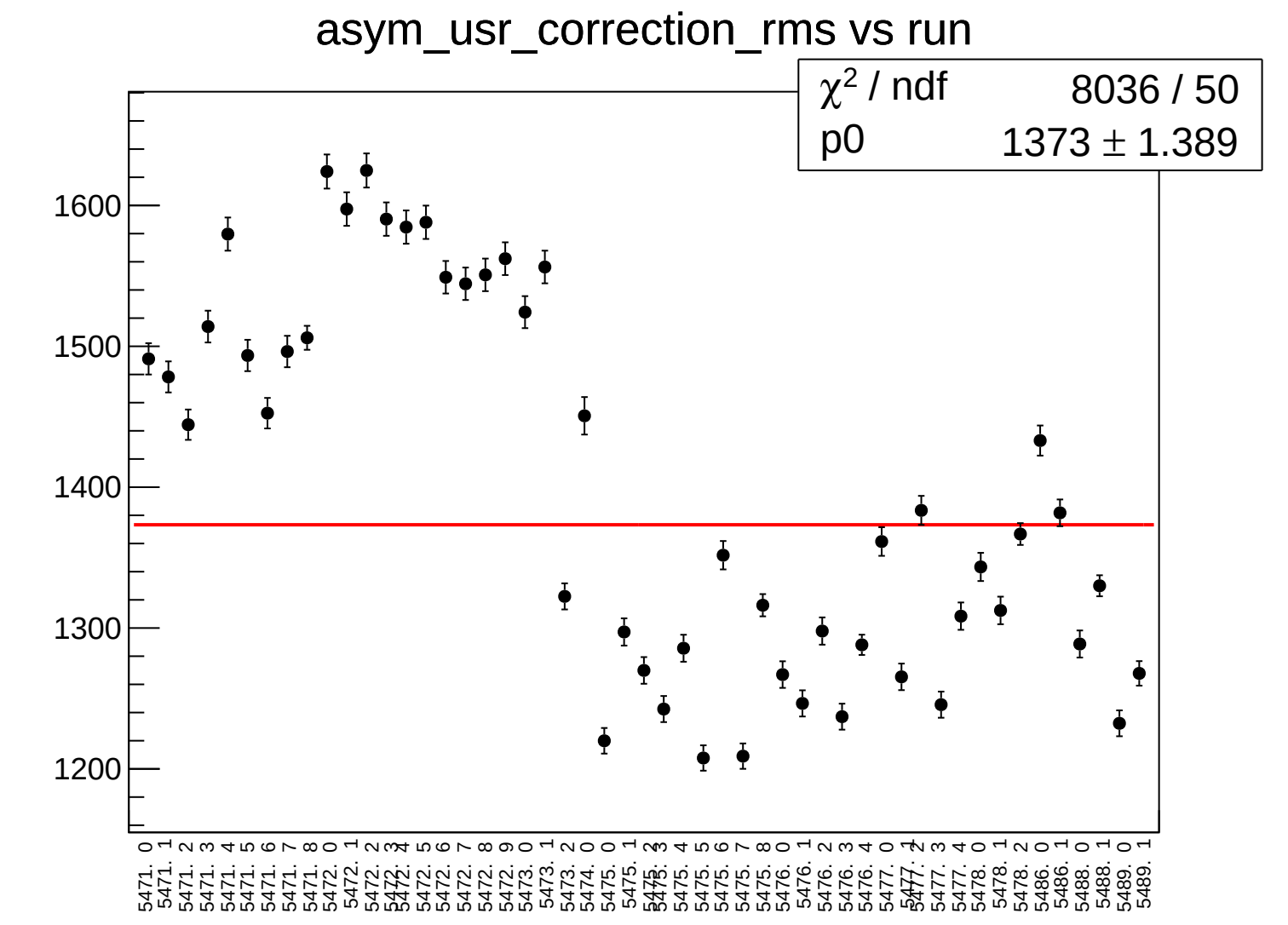

dit_asym_usr_mean vs run
χ² / ndf 50.68 / 50
p0 −908.7 ± 1573
pull
Entries 51
Mean 362
Std Dev 334.1

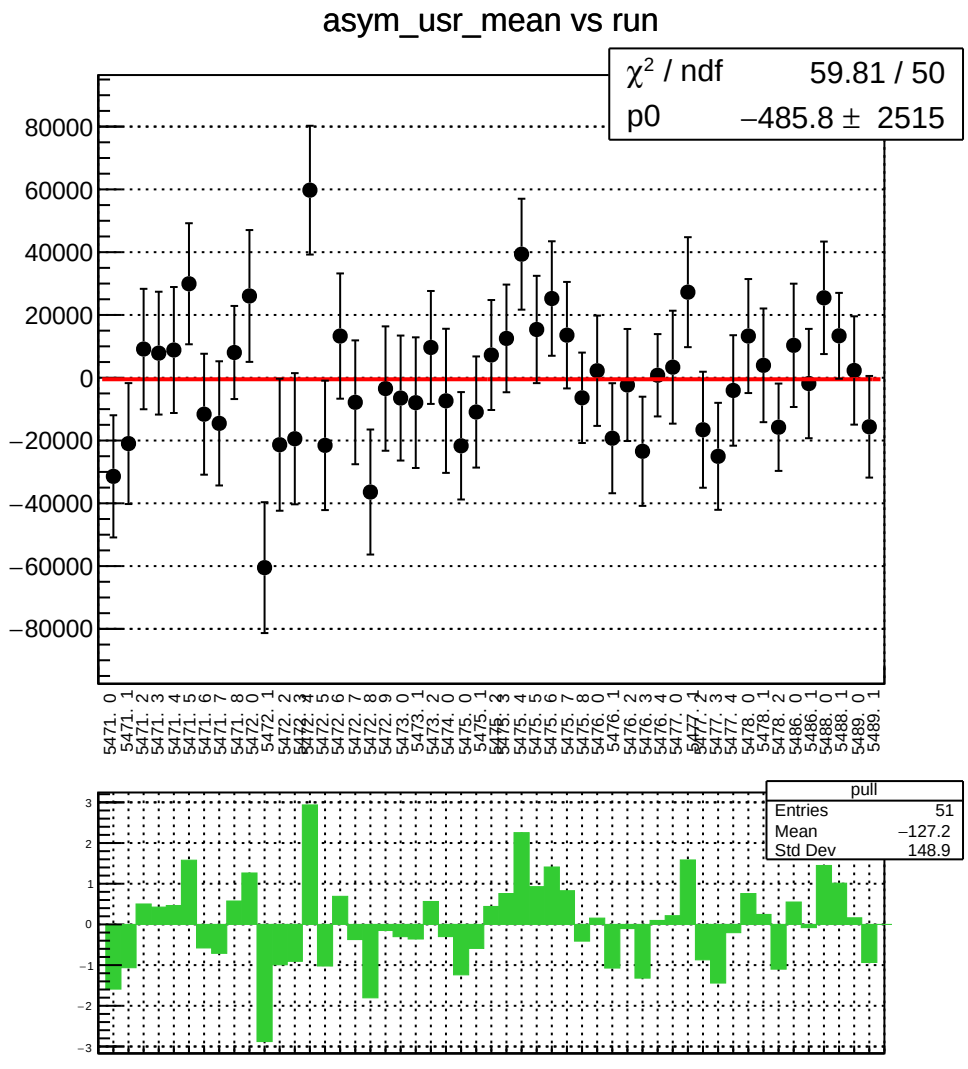

pull1D
Entries 51
Mean 0.004371
Std Dev 0.9968

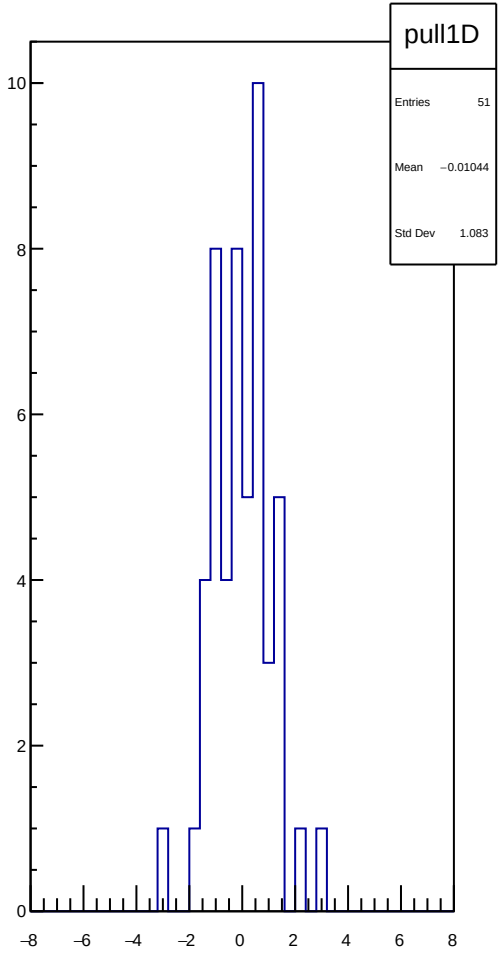

dit_asym_usr_rms vs run
χ^2 / ndf 185.2 / 50
p0 1104 ± 1.112
1180
1160
1140
1120
1100
1080
1060
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

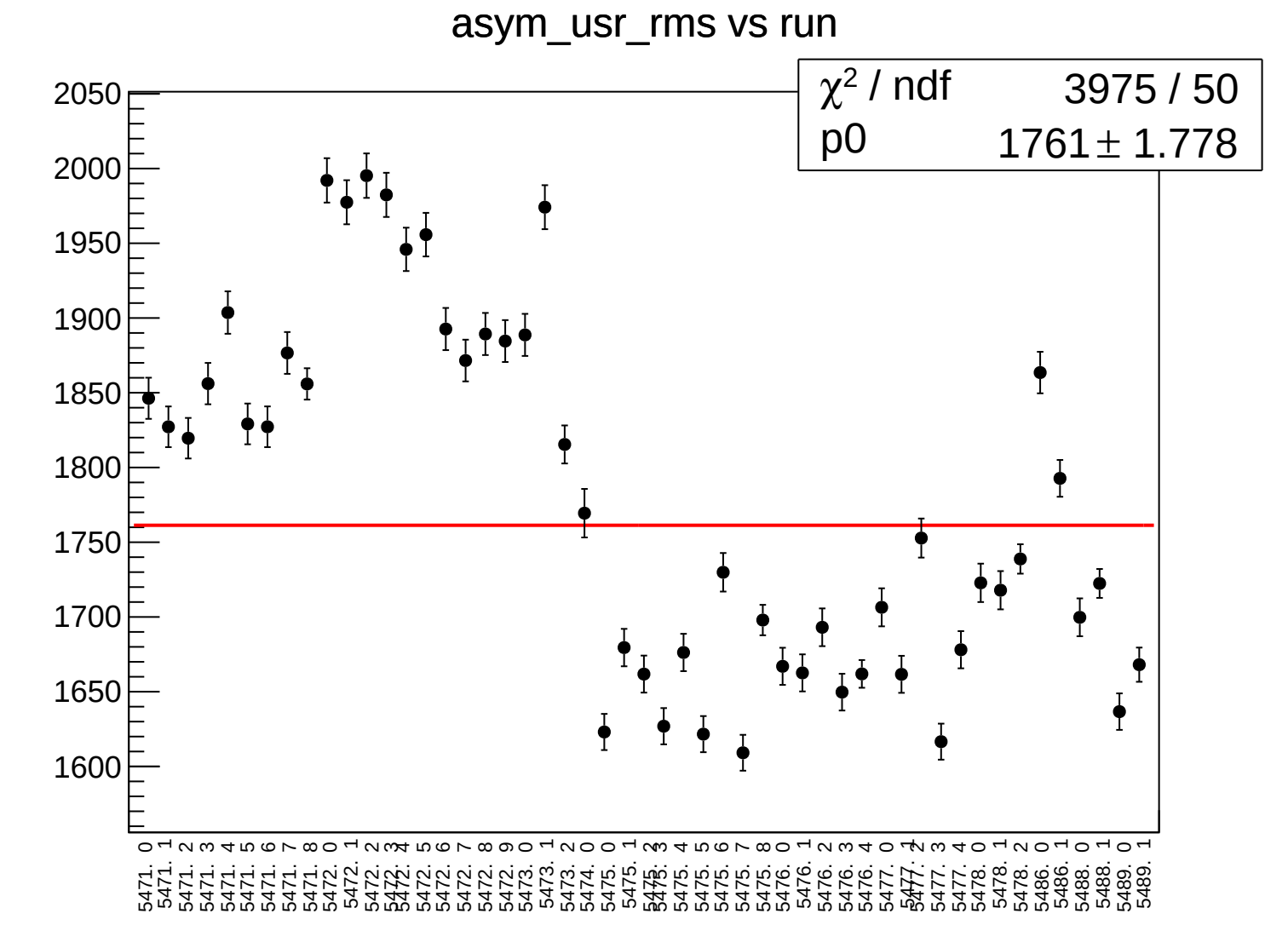

asym_usr_correction_mean vs run
χ² / ndf 54.38 / 50
p0 −291.3 ± 1965
pull
Entries 51
Mean −42.69
Std Dev 55.32

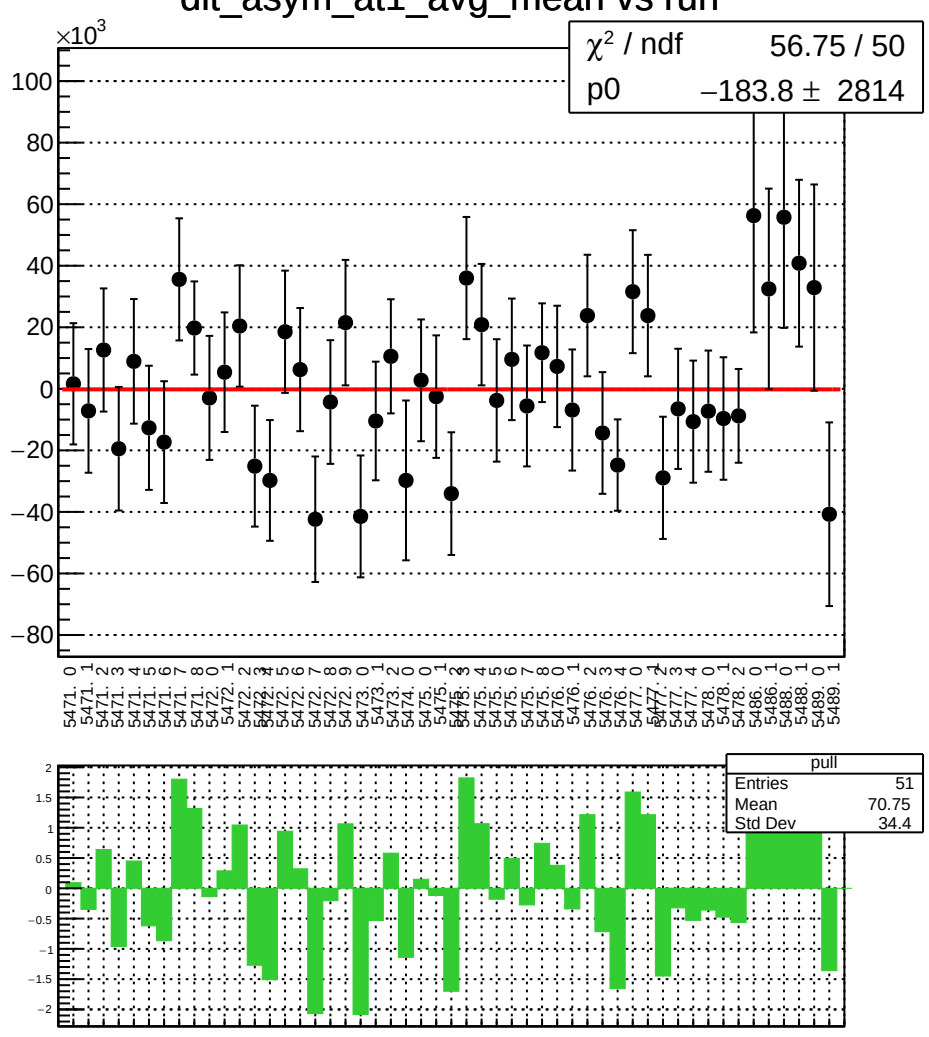

pull1D
Entries 51
Mean 0.01273
Std Dev 1.033

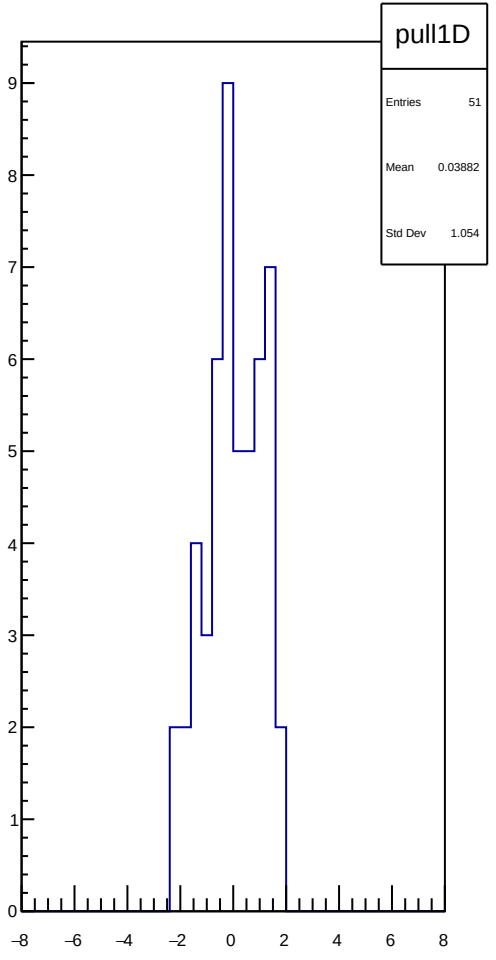

asym_usr_correction_rms vs run
χ² / ndf 8036 / 50
p0 1373 ± 1.389
1600
1500
1400
1300
1200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

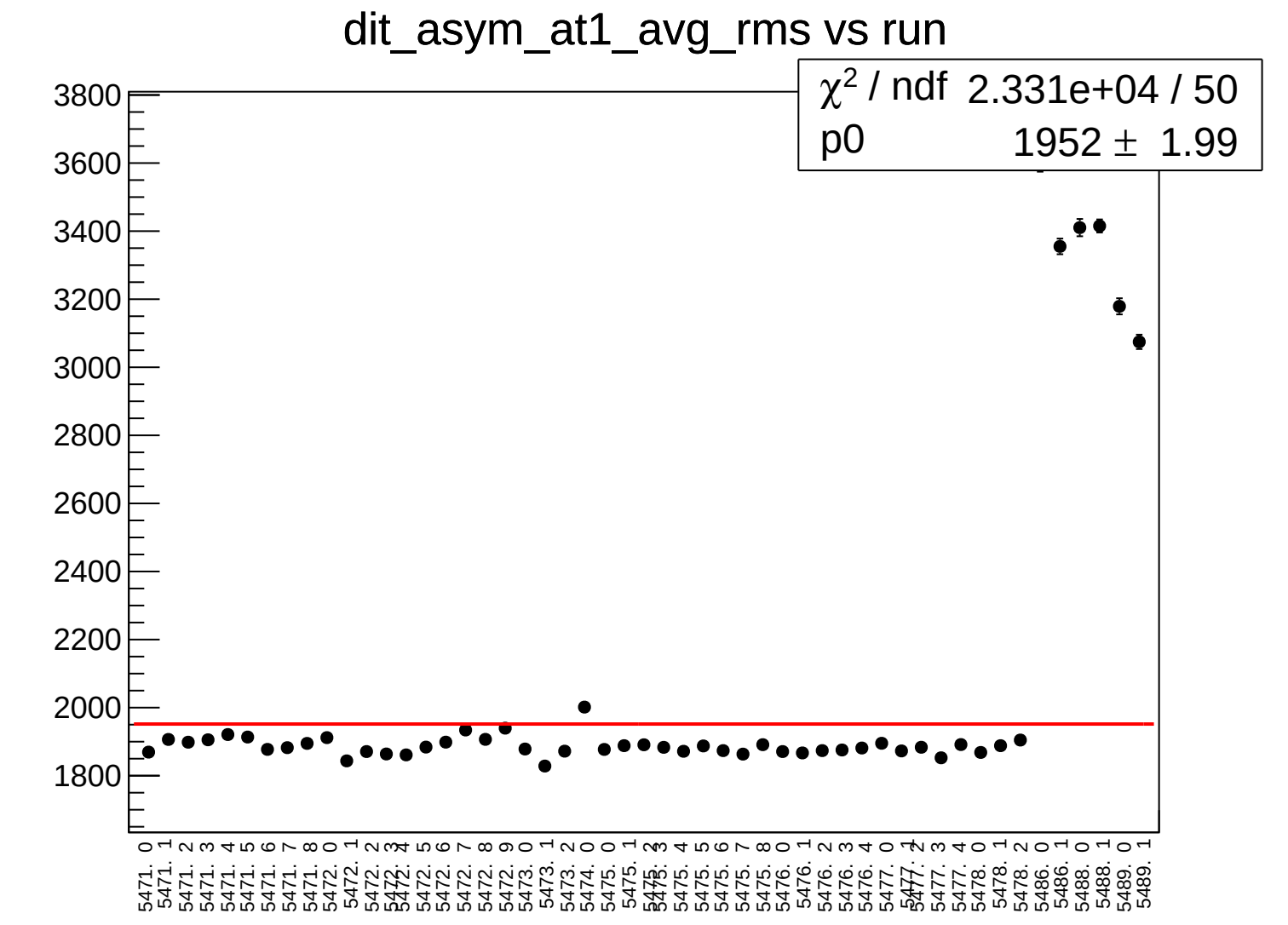

asym_usr_mean vs run
χ² / ndf 59.81 / 50
p0 −485.8 ± 2515
pull
Entries 51
Mean −127.2
Std Dev 148.9

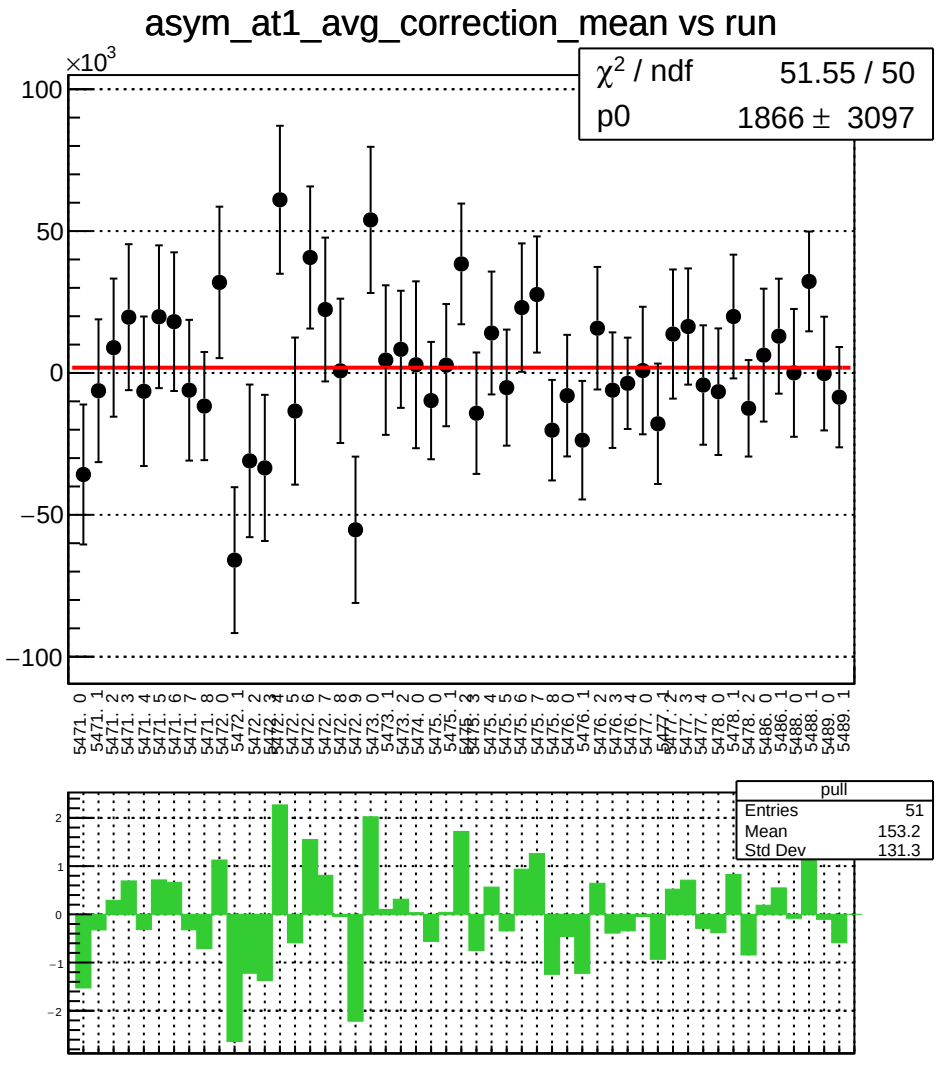

pull1D
Entries 51
Mean −0.01044
Std Dev 1.083

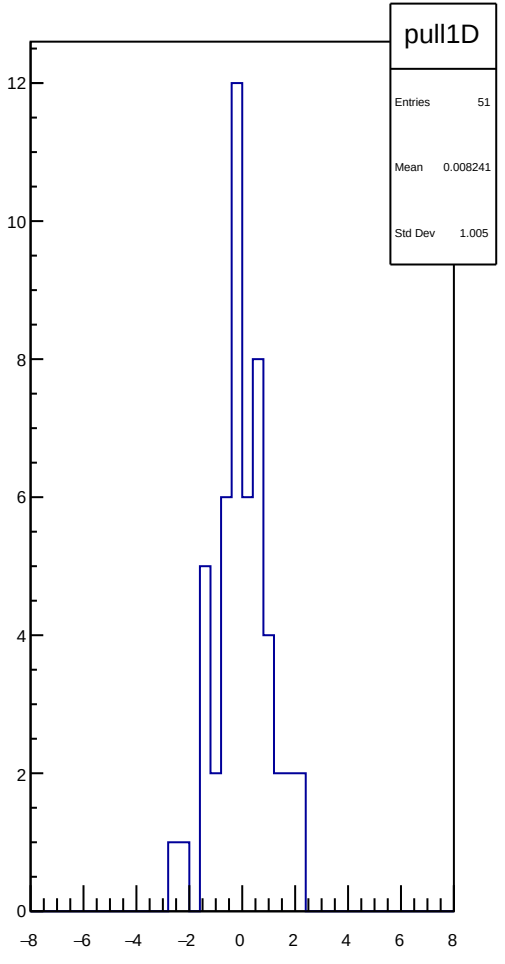

asym_usr_rms vs run
χ² / ndf 3975 / 50
p0 1761 ± 1.778
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

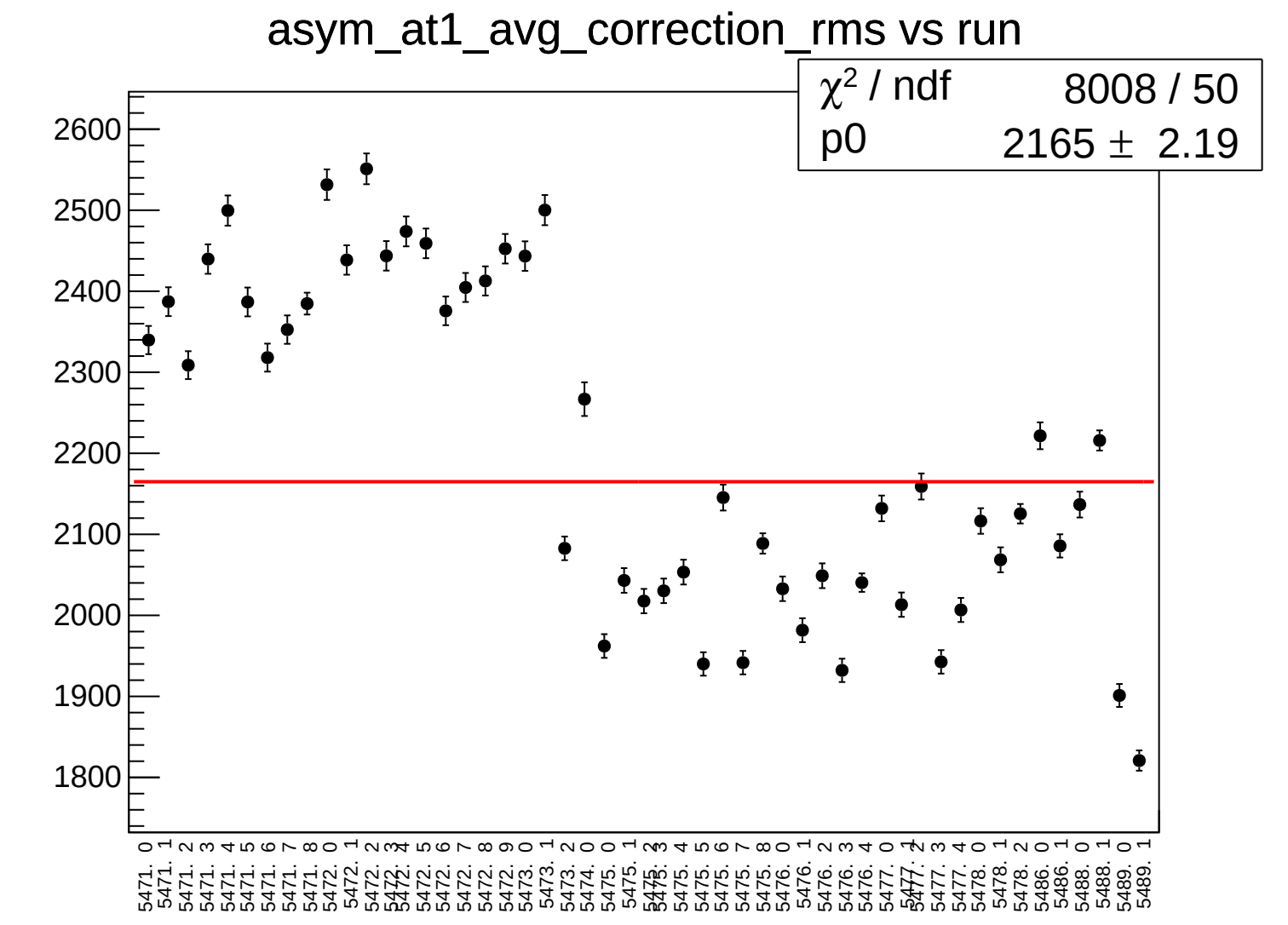

dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 56.75 / 50
p0 −183.8 ± 2814
pull
Entries 51
Mean 70.75
Std Dev 34.4

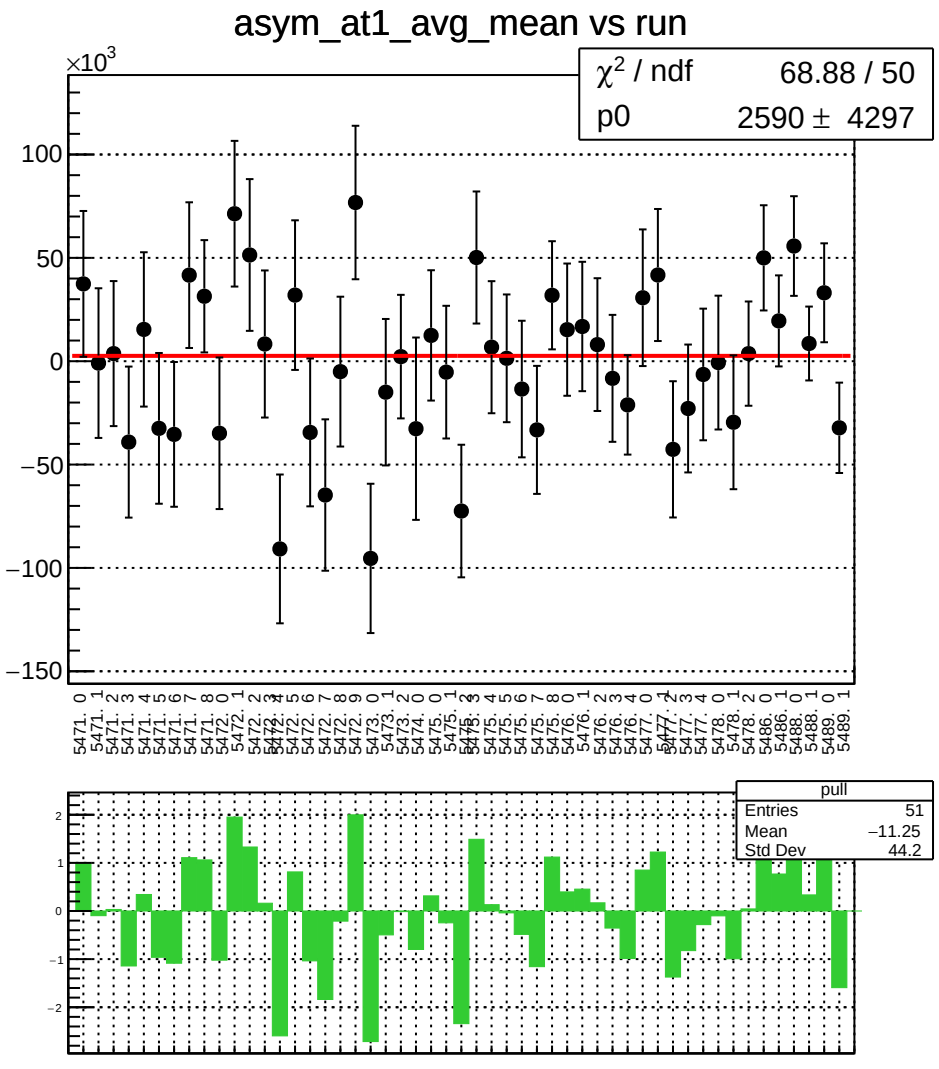

pull1D
Entries 51
Mean 0.03882
Std Dev 1.054

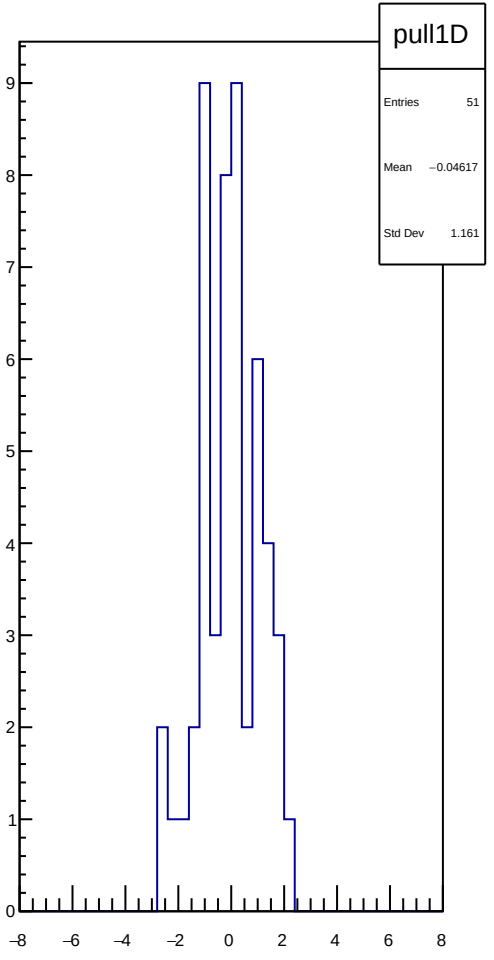

dit_asym_at1_avg_rms vs run
χ² / ndf 2.331e+04 / 50
p0 1952 ± 1.99
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

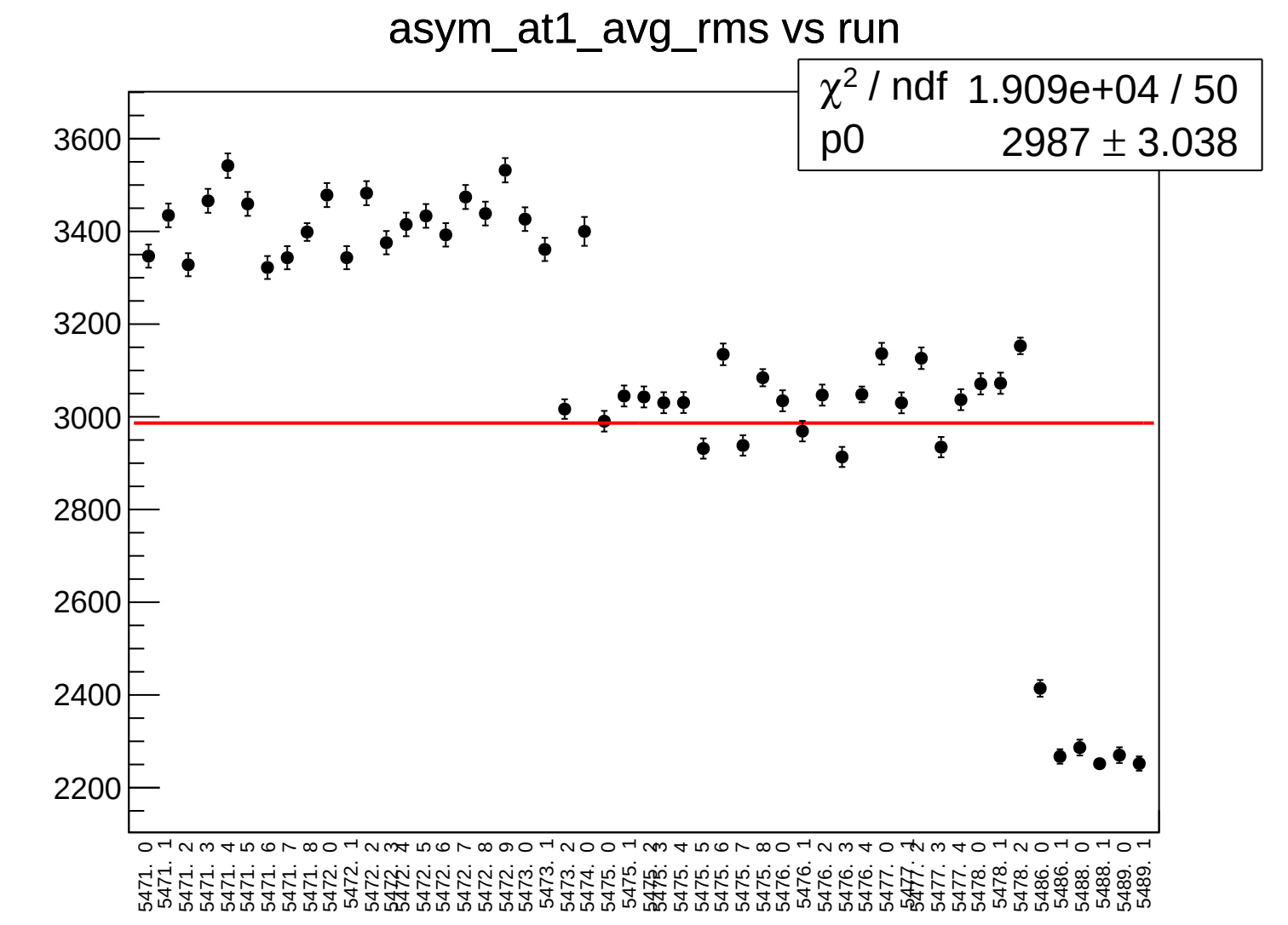

asym_at1_avg_correction_mean vs run
×10^3
χ² / ndf 51.55 / 50
p0 1866 ± 3097
100
50
0
−50
−100
pull
Entries 51
Mean 153.2
Std Dev 131.3
2
1
0
−1
−2

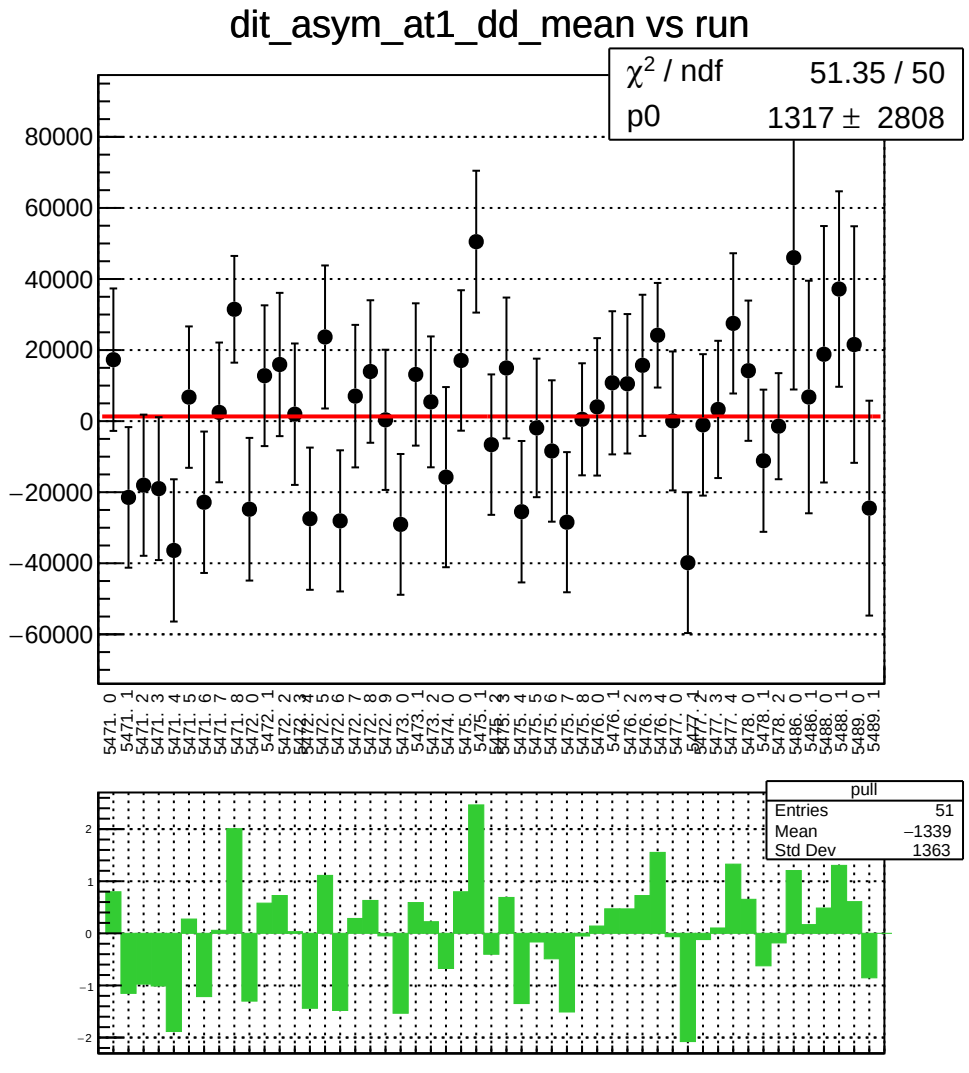

pull1D
Entries 51
Mean 0.008241
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

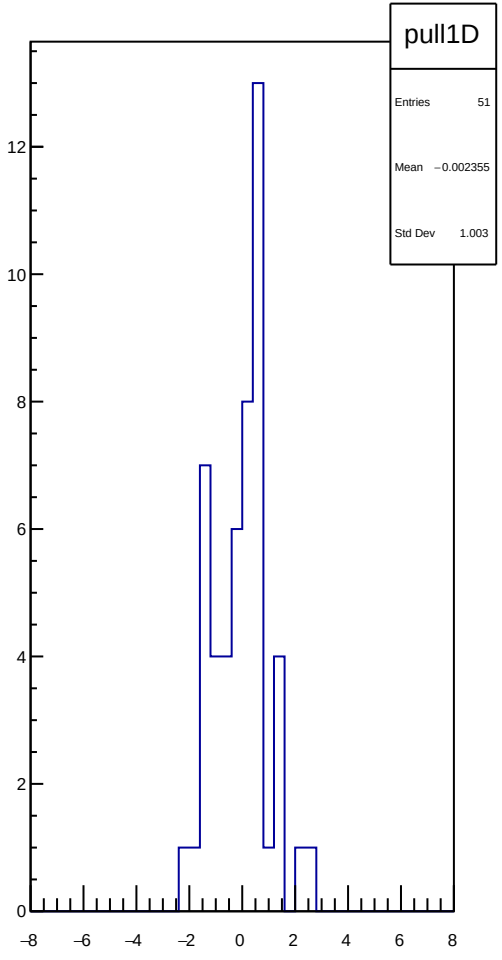

asym_at1_avg_correction_rms vs run
χ² / ndf 8008 / 50
p0 2165 ± 2.19
2600
2500
2400
2300
2200
2100
2000
1900
1800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

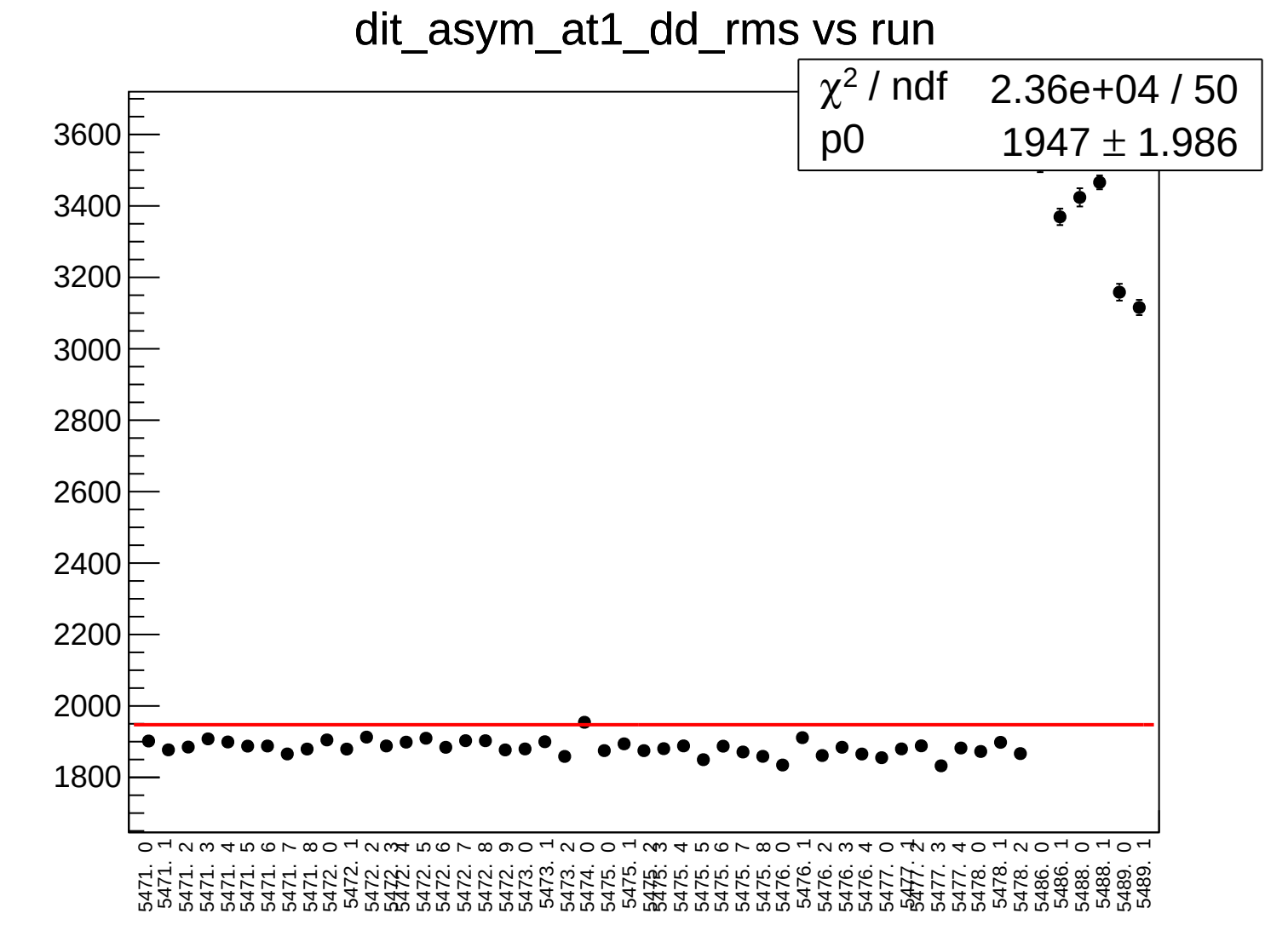

asym_at1_avg_mean vs run
×10^3
χ² / ndf 68.88 / 50
p0 2590 ± 4297
100
50
0
−50
−100
−150
pull
Entries 51
Mean −11.25
Std Dev 44.2
2
1
0
−1
−2

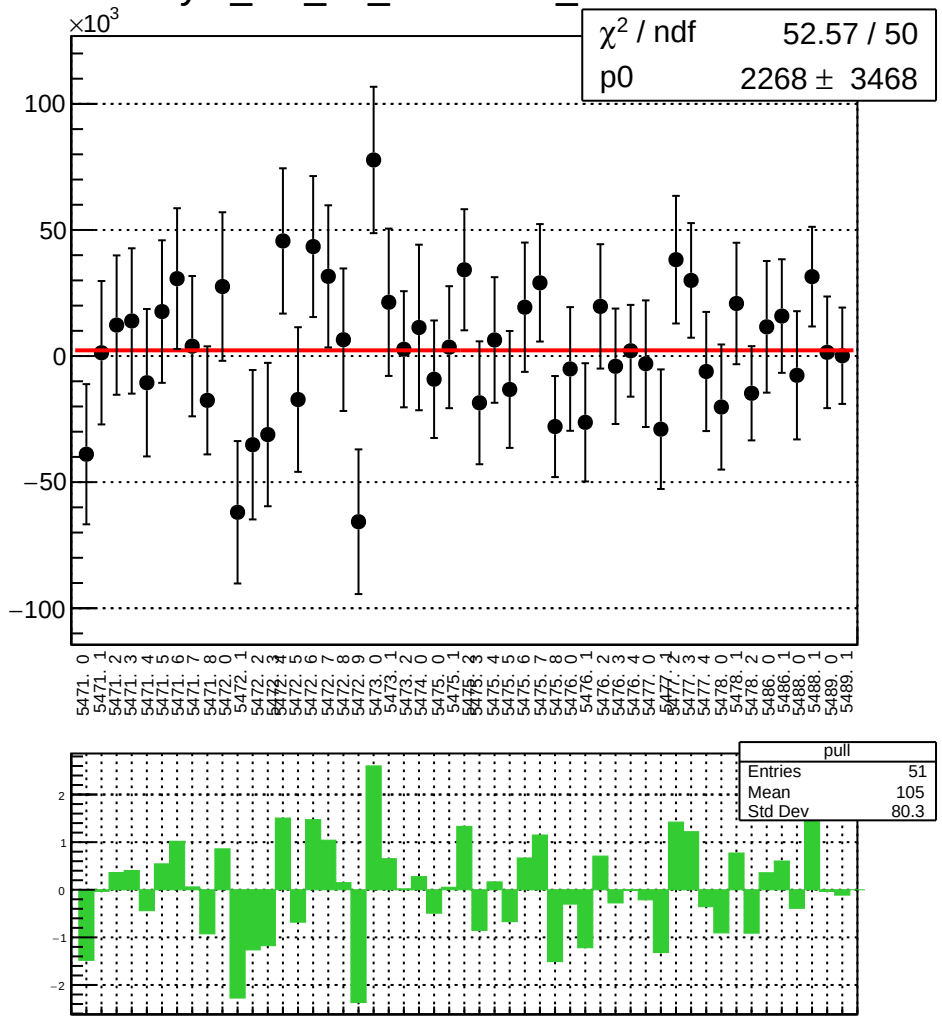

pull1D
Entries 51
Mean −0.04617
Std Dev 1.161
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

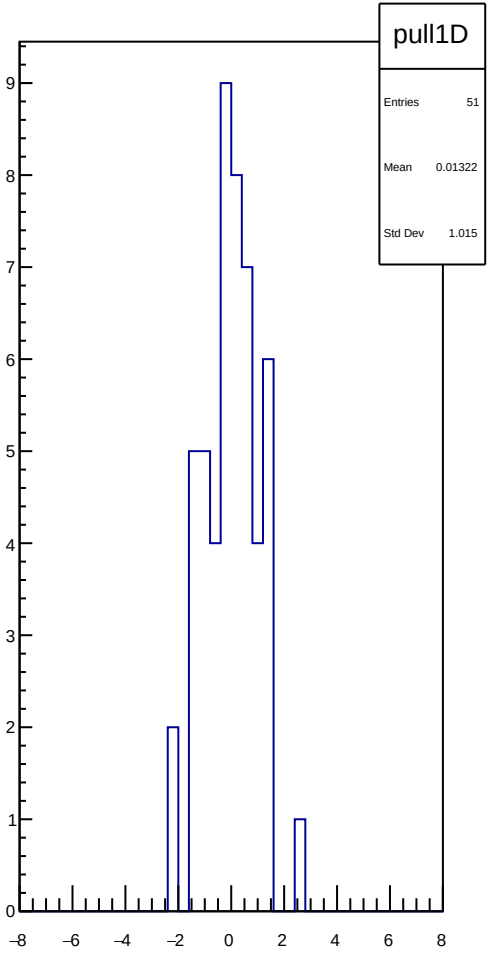

asym_at1_avg_rms vs run
χ² / ndf 1.909e+04 / 50
p0 2987 ± 3.038
3600
3400
3200
3000
2800
2600
2400
2200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

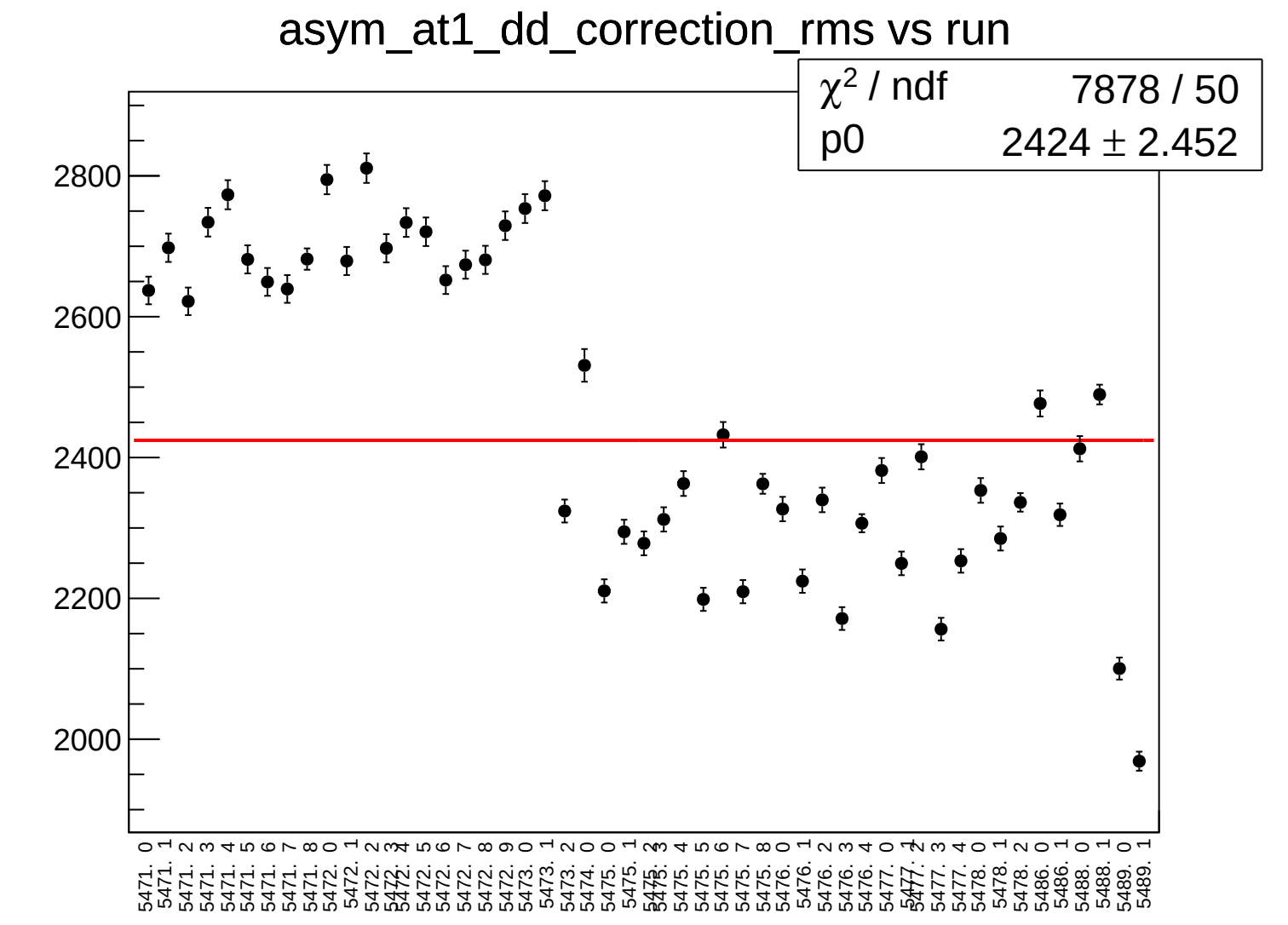

dit_asym_at1_dd_mean vs run
χ² / ndf 51.35 / 50
p0 1317 ± 2808
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −1339
Std Dev 1363
2
1
0
−1
−2

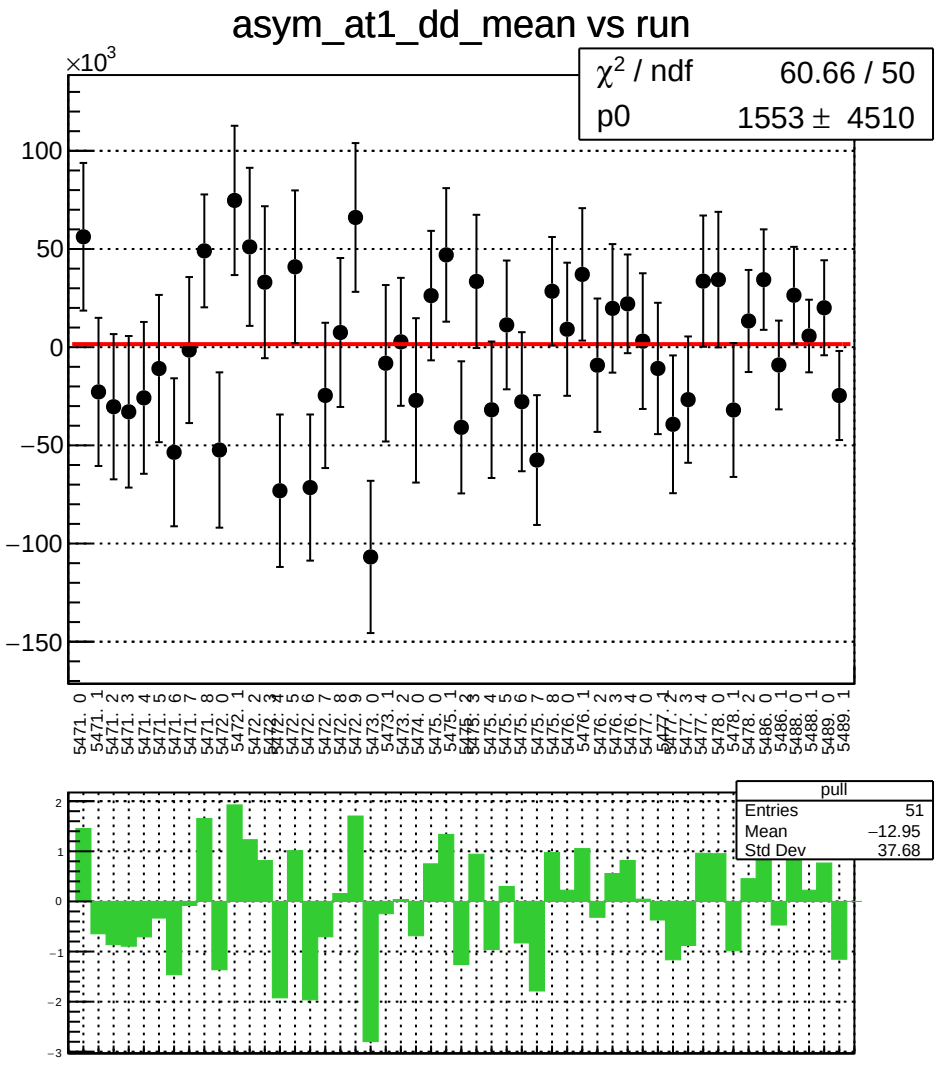

pull1D
Entries 51
Mean −0.002355
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

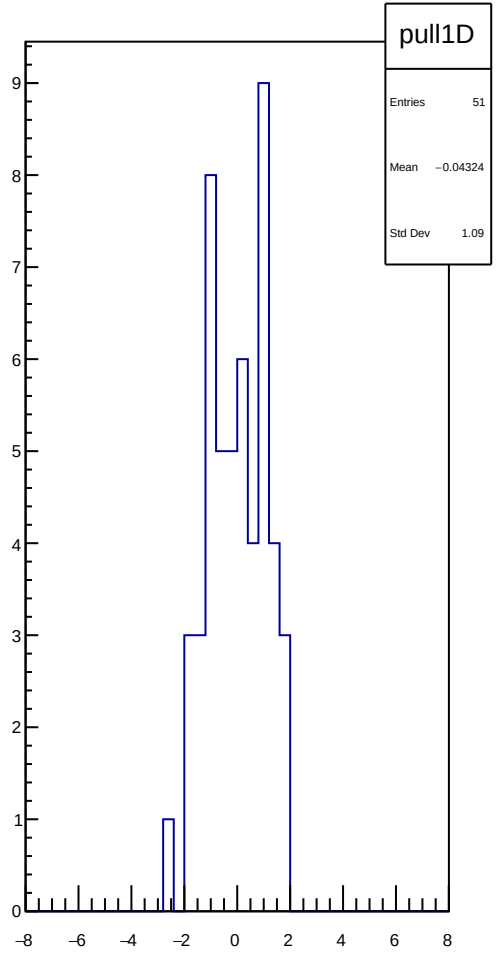

dit_asym_at1_dd_rms vs run
χ² / ndf 2.36e+04 / 50
p0 1947 ± 1.986
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

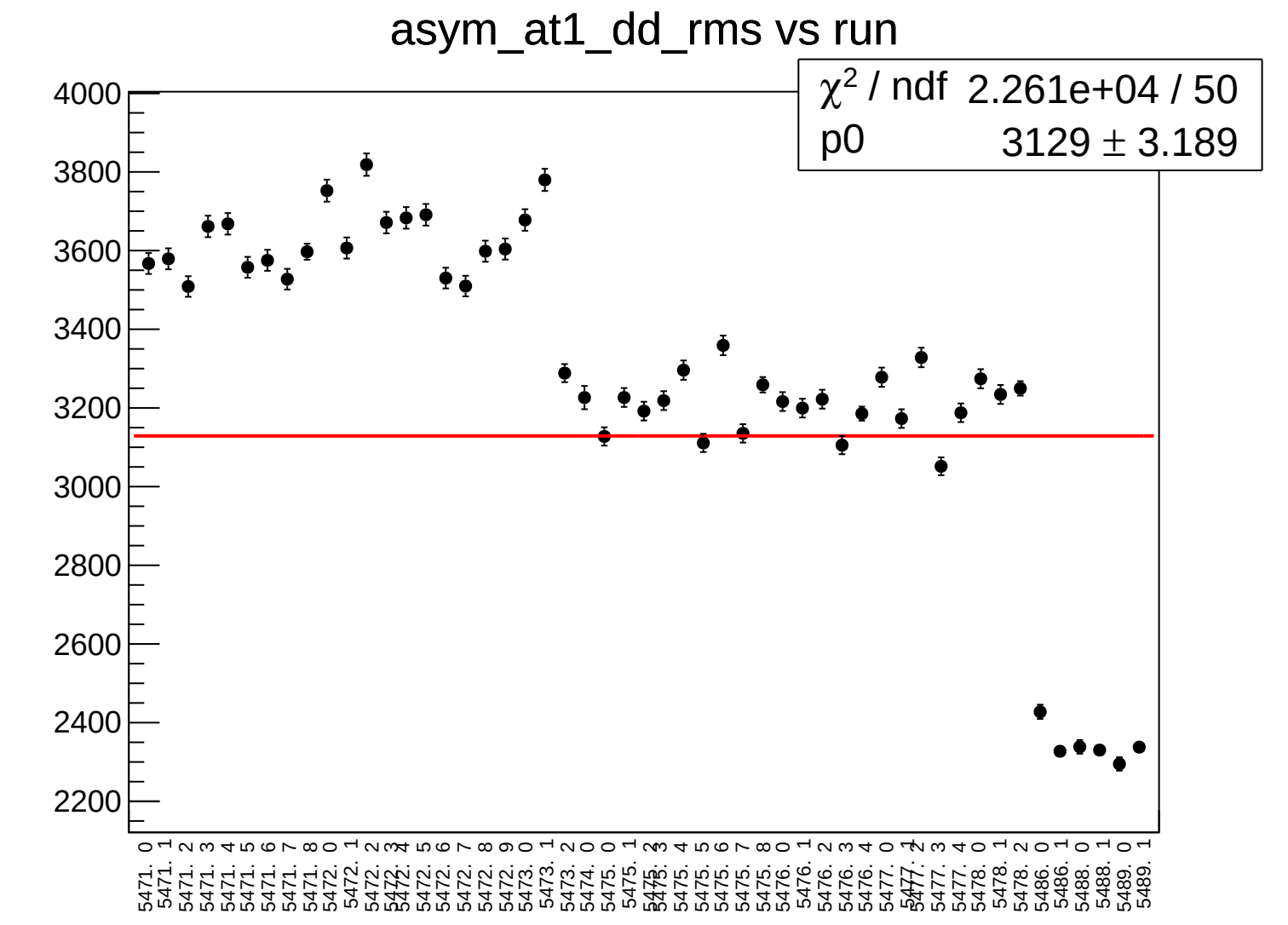

asym_at1_dd_correction_mean vs run
×10^3
χ² / ndf 52.57 / 50
p0 2268 ± 3468
100
50
0
−50
−100
pull
Entries 51
Mean 105
Std Dev 80.3
2
1
0
−1
−2

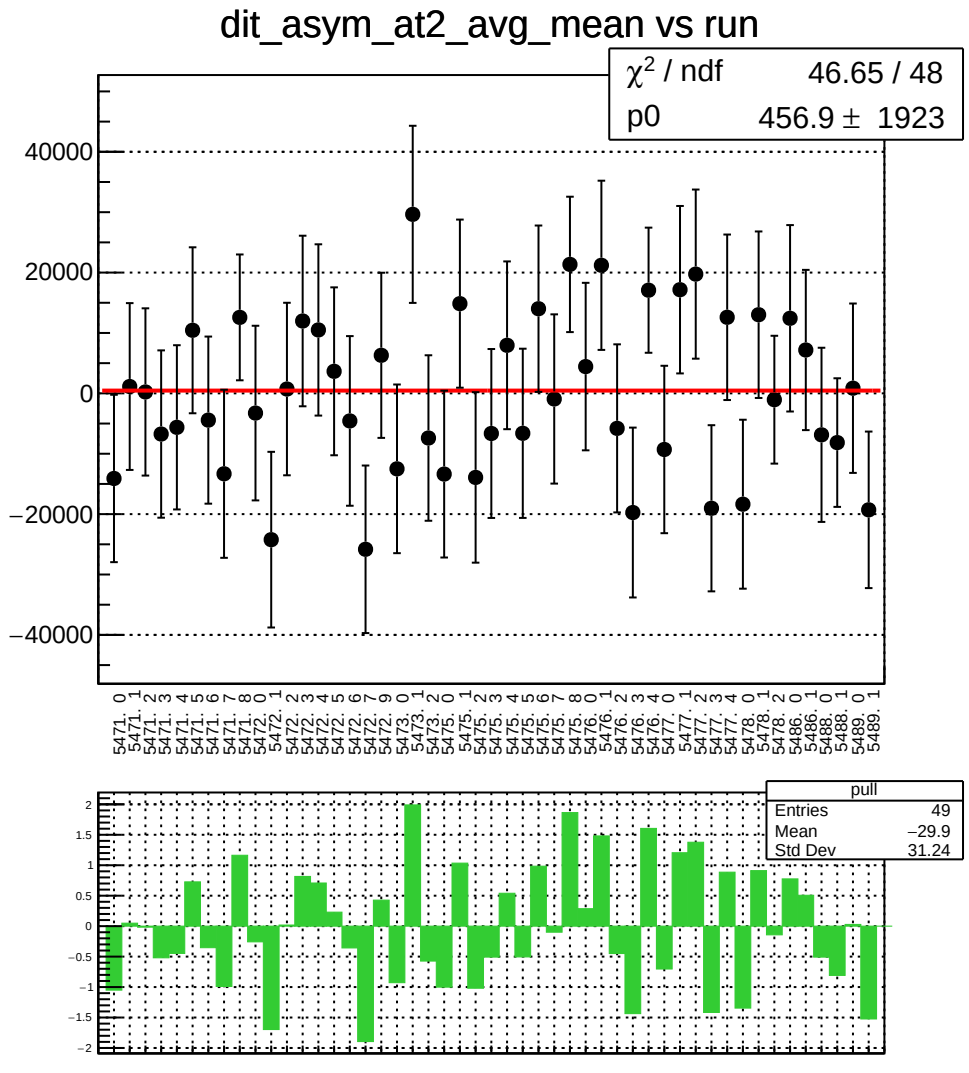

pull1D
Entries 51
Mean 0.01322
Std Dev 1.015
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

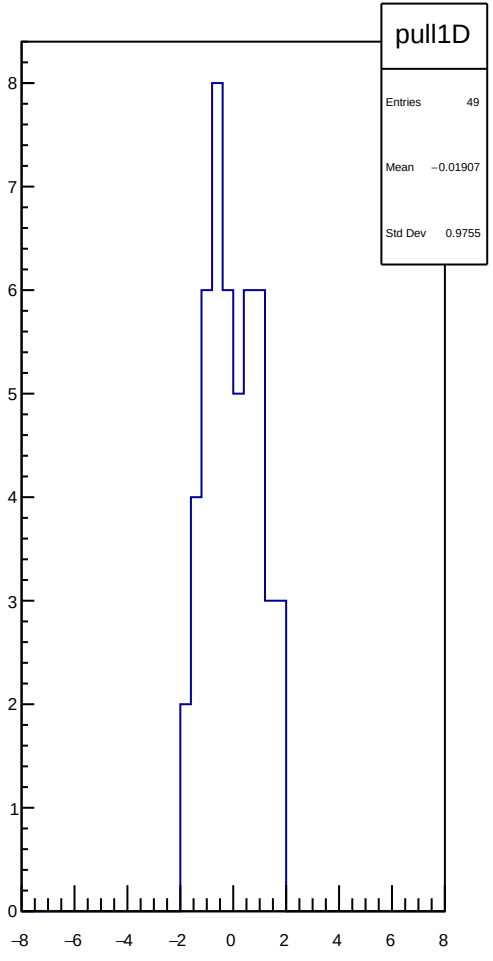

asym_at1_dd_correction_rms vs run
χ² / ndf 7878 / 50
p0 2424 ± 2.452
2800
2600
2400
2200
2000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

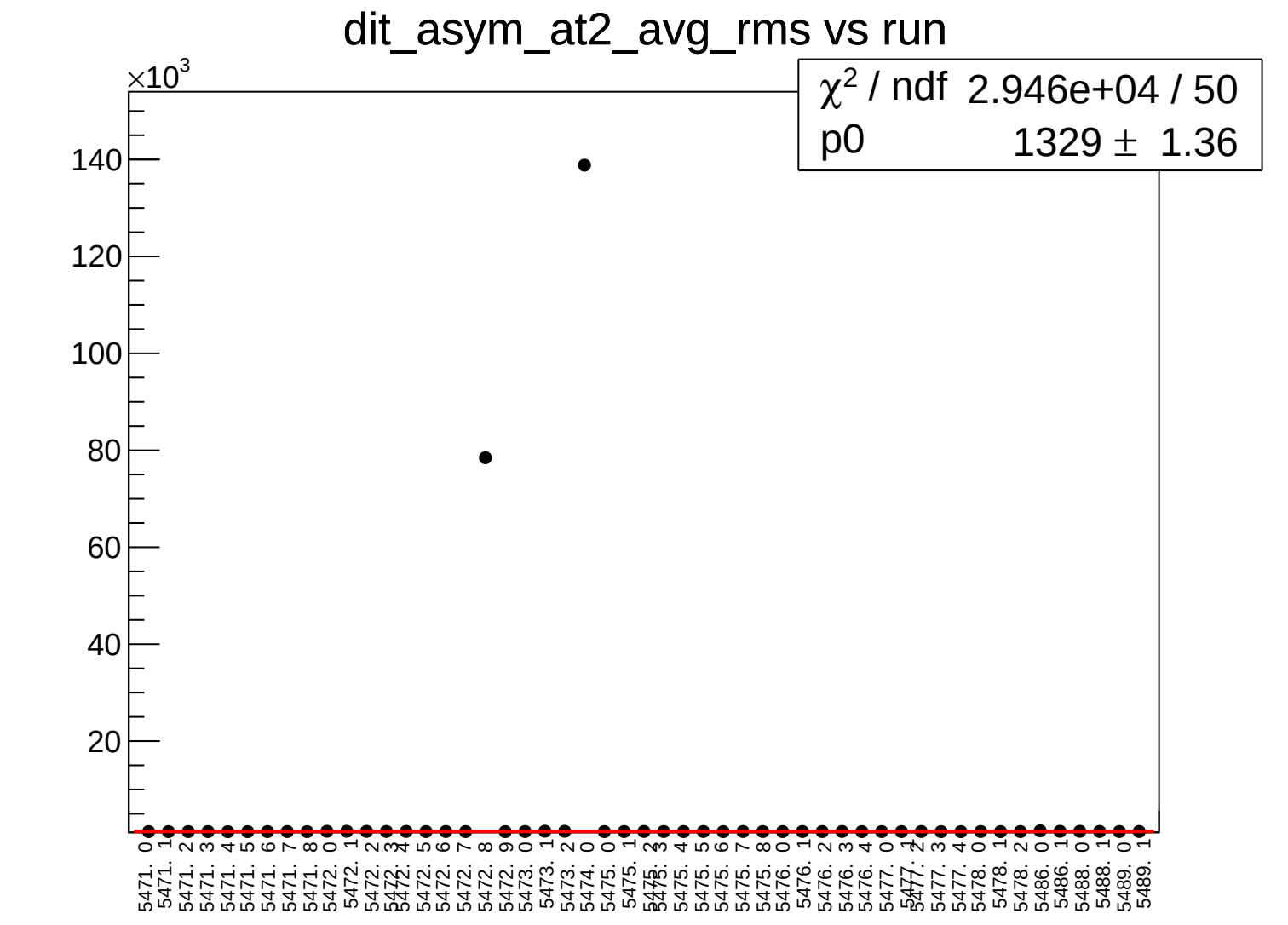

asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 60.66 / 50
p0 1553 ± 4510
100
50
0
−50
−100
−150
pull
Entries 51
Mean −12.95
Std Dev 37.68

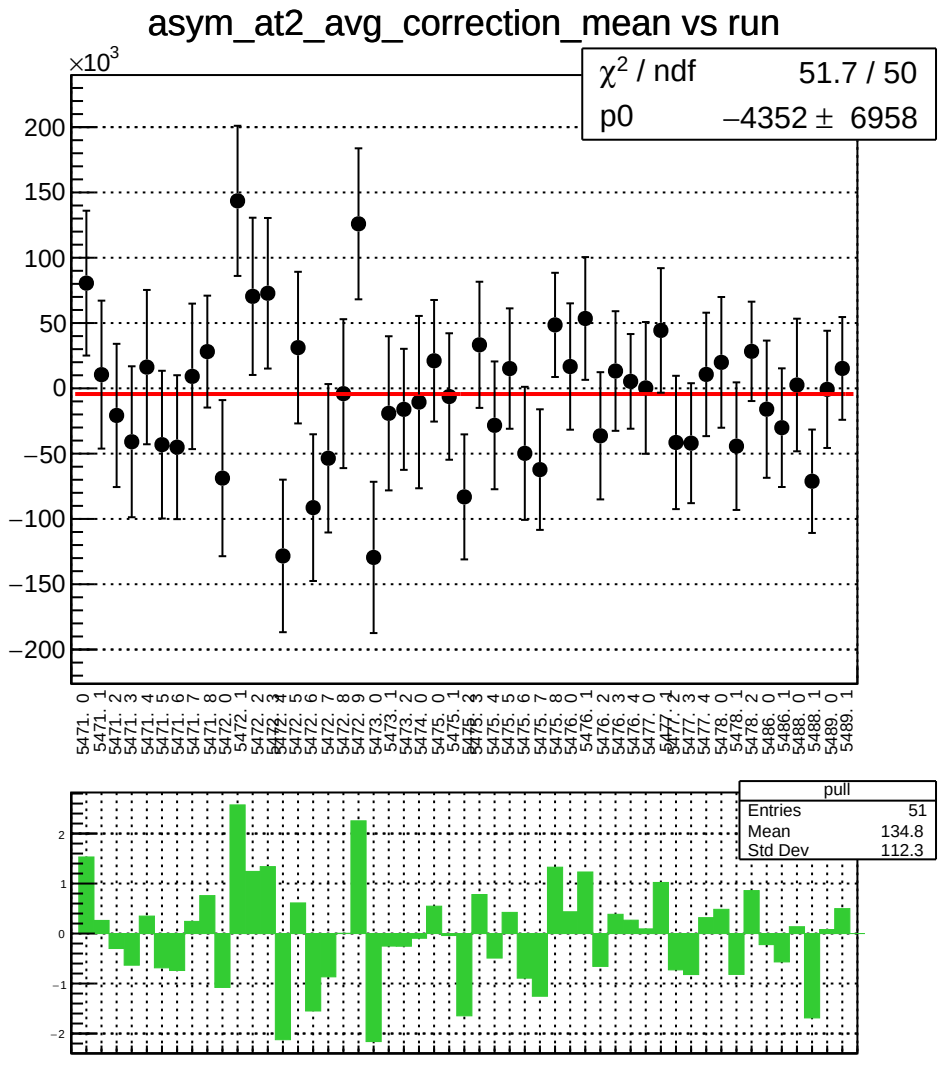

pull1D
Entries 51
Mean −0.04324
Std Dev 1.09

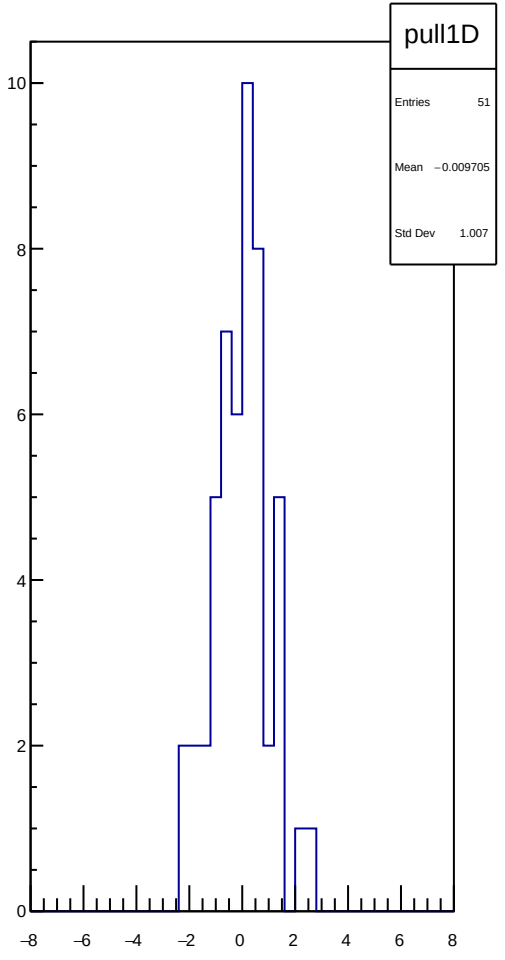

asym_at1_dd_rms vs run
χ² / ndf 2.261e+04 / 50
p0 3129 ± 3.189
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

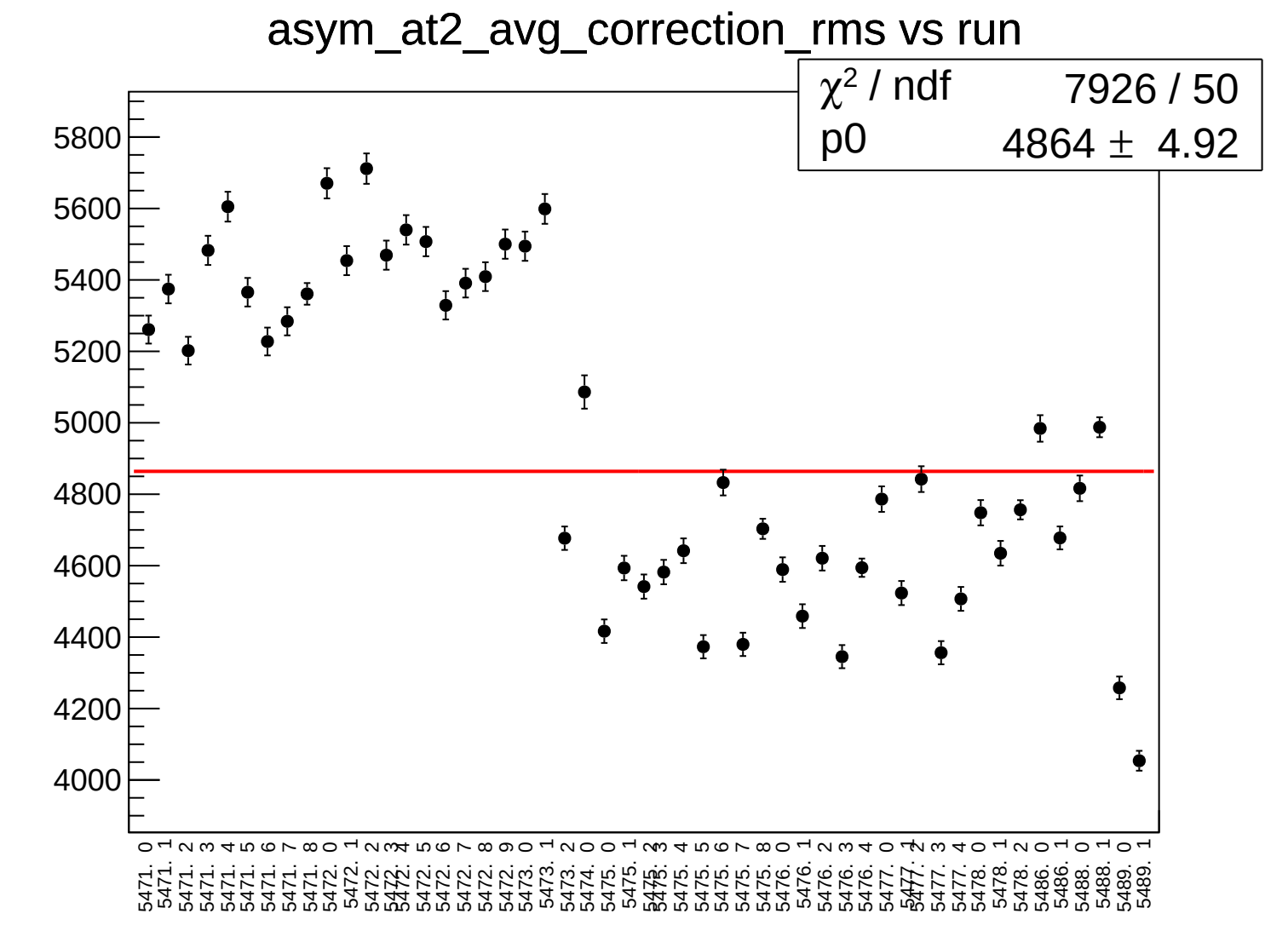

dit_asym_at2_avg_mean vs run
χ² / ndf 46.65 / 48
p0 456.9 ± 1923
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −29.9
Std Dev 31.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

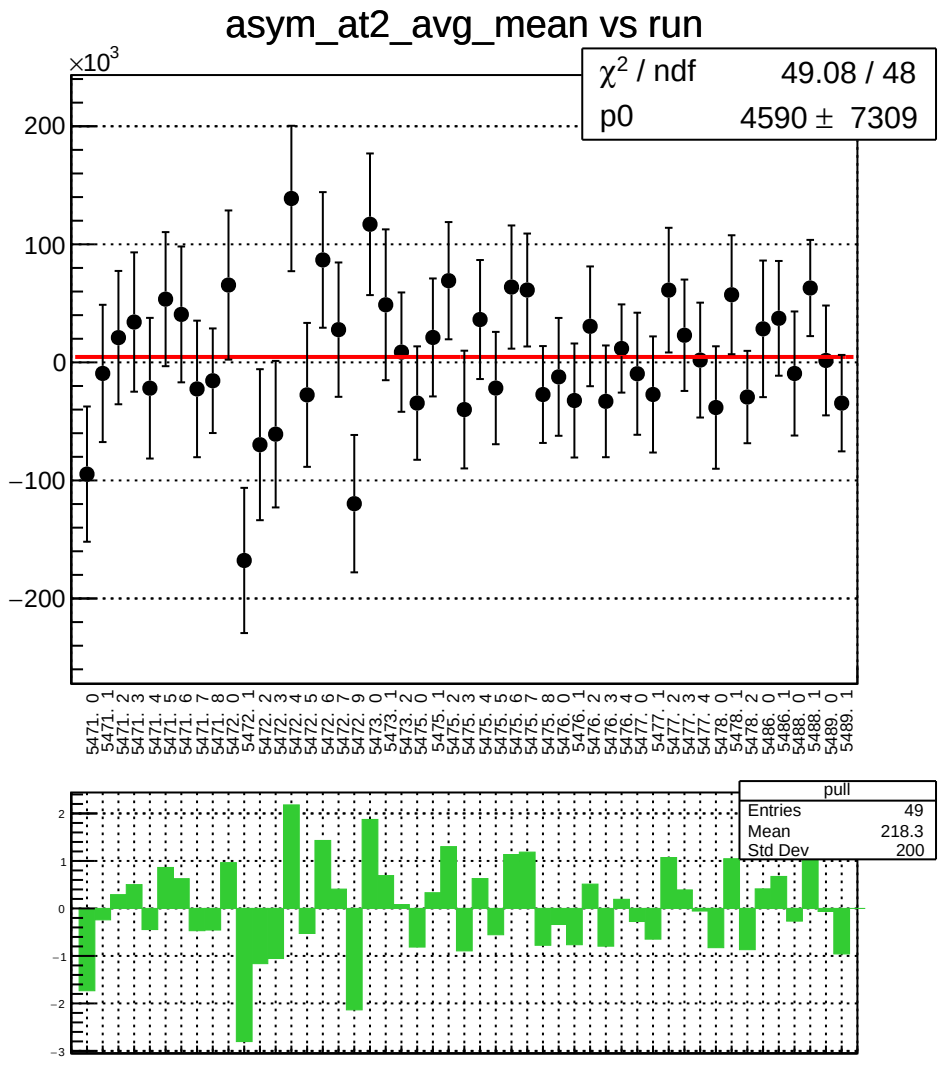

pull1D
Entries 49
Mean −0.01907
Std Dev 0.9755
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

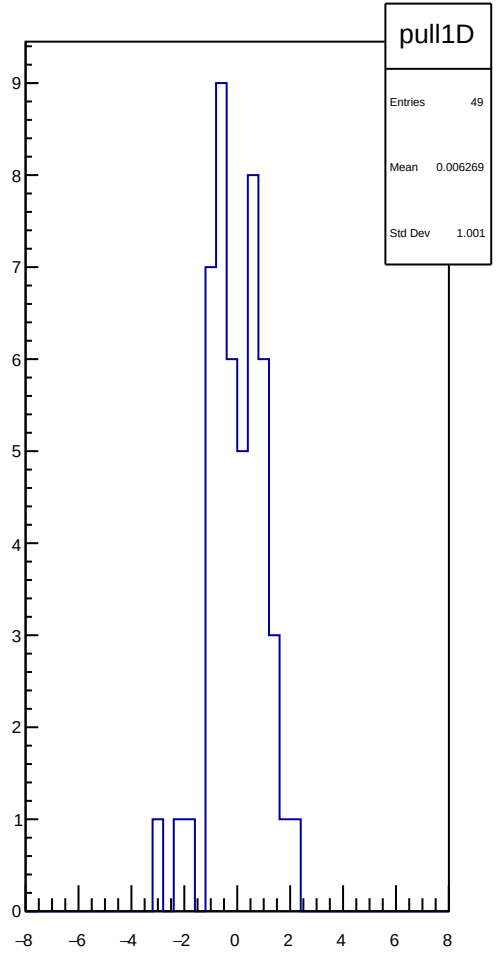

dit_asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 2.946e+04 / 50
p0 1329 ± 1.36
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

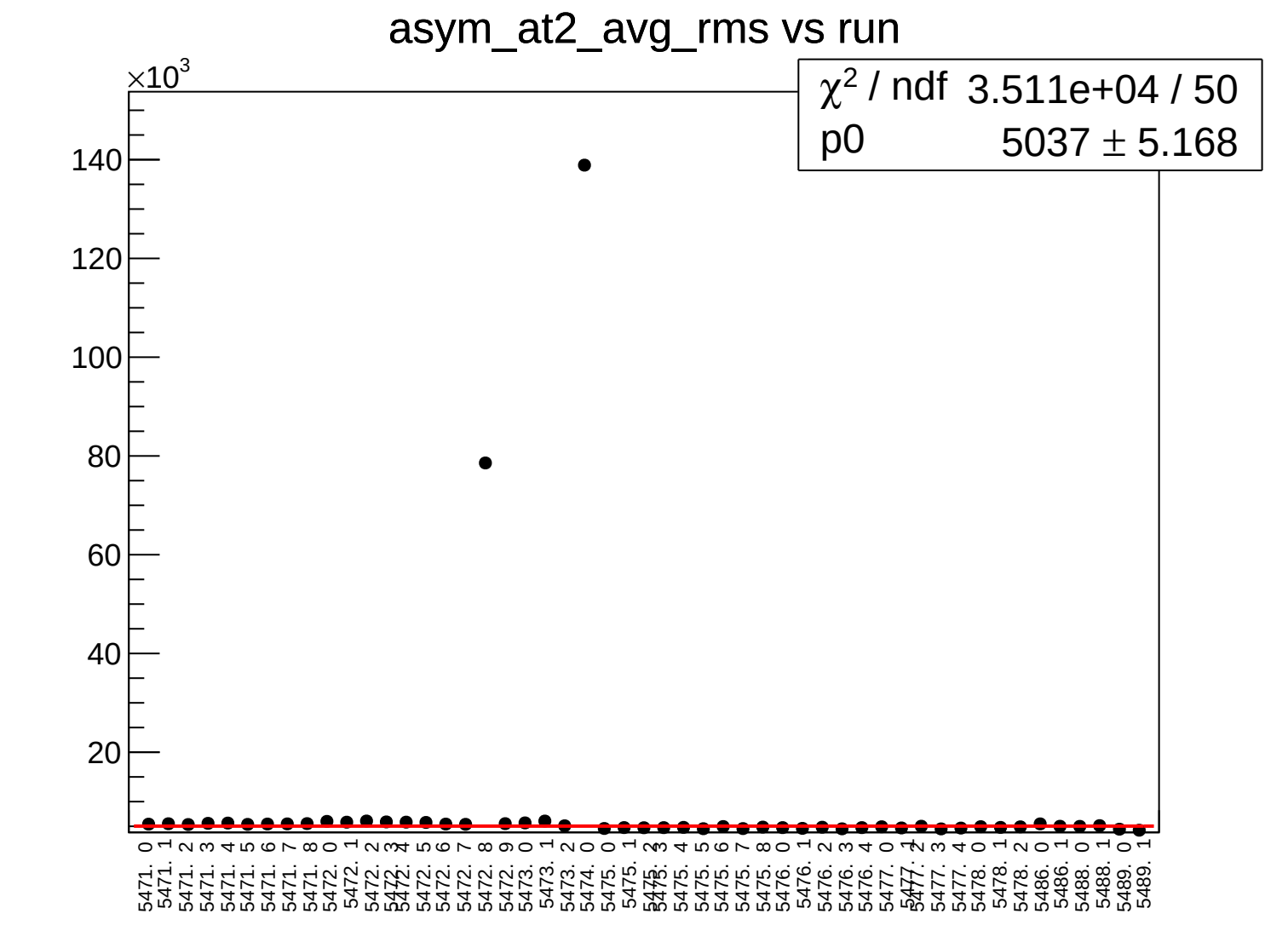

asym_at2_avg_correction_mean vs run
χ² / ndf 51.7 / 50
p0 −4352 ± 6958
×10³
pull
Entries 51
Mean 134.8
Std Dev 112.3

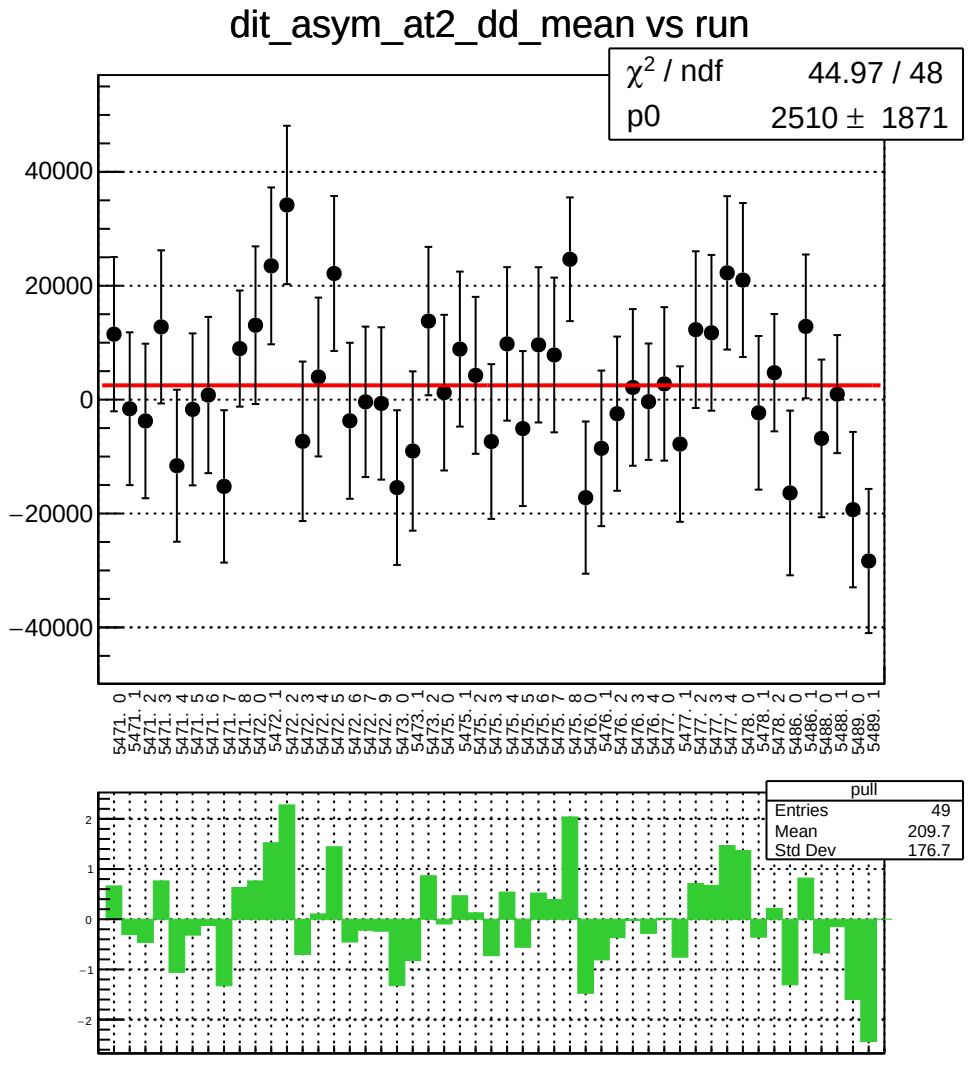

pull1D
Entries 51
Mean −0.009705
Std Dev 1.007

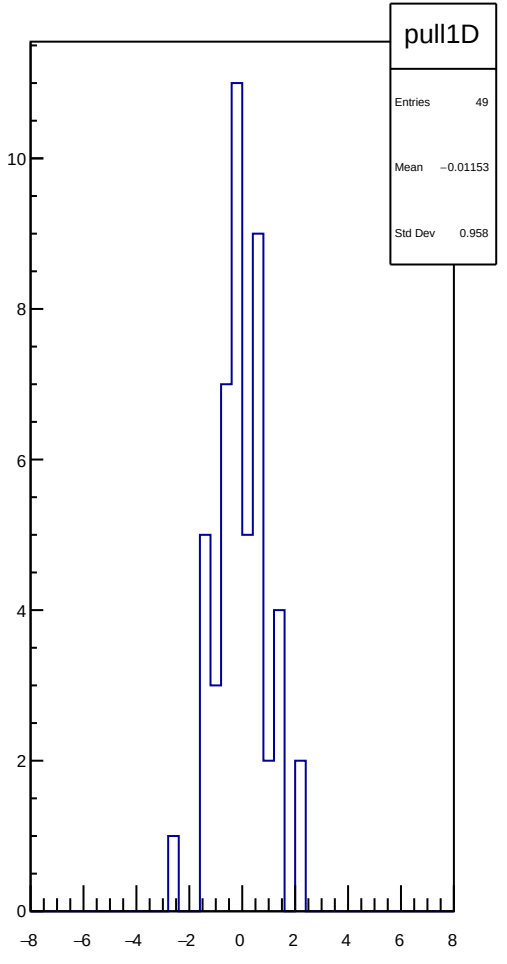

asym_at2_avg_correction_rms vs run
χ² / ndf 7926 / 50
p0 4864 ± 4.92
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

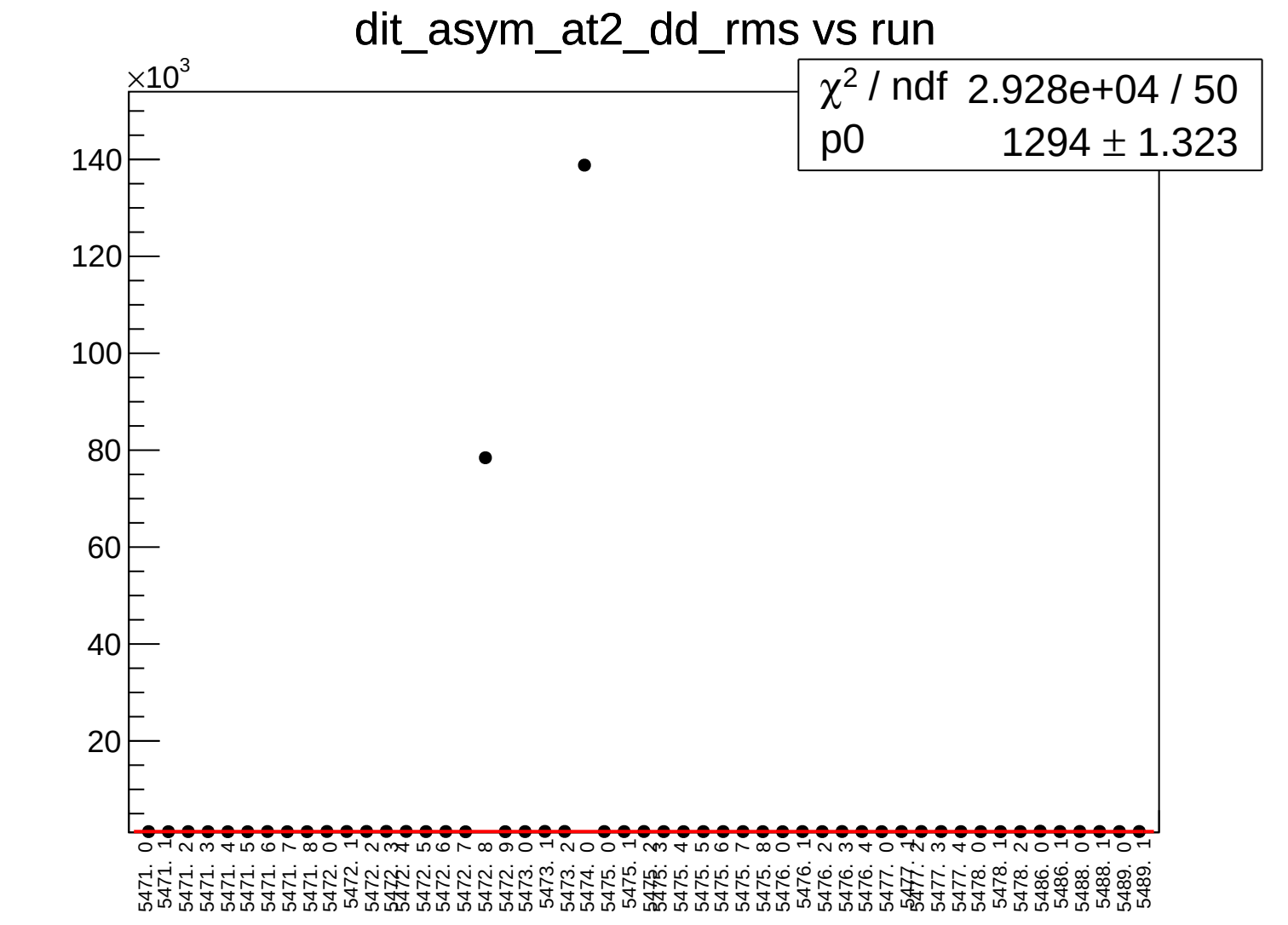

asym_at2_avg_mean vs run
×10^3
χ² / ndf 49.08 / 48
p0 4590 ± 7309
200
100
0
−100
−200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 218.3
Std Dev 200
2
1
0
−1
−2
−3

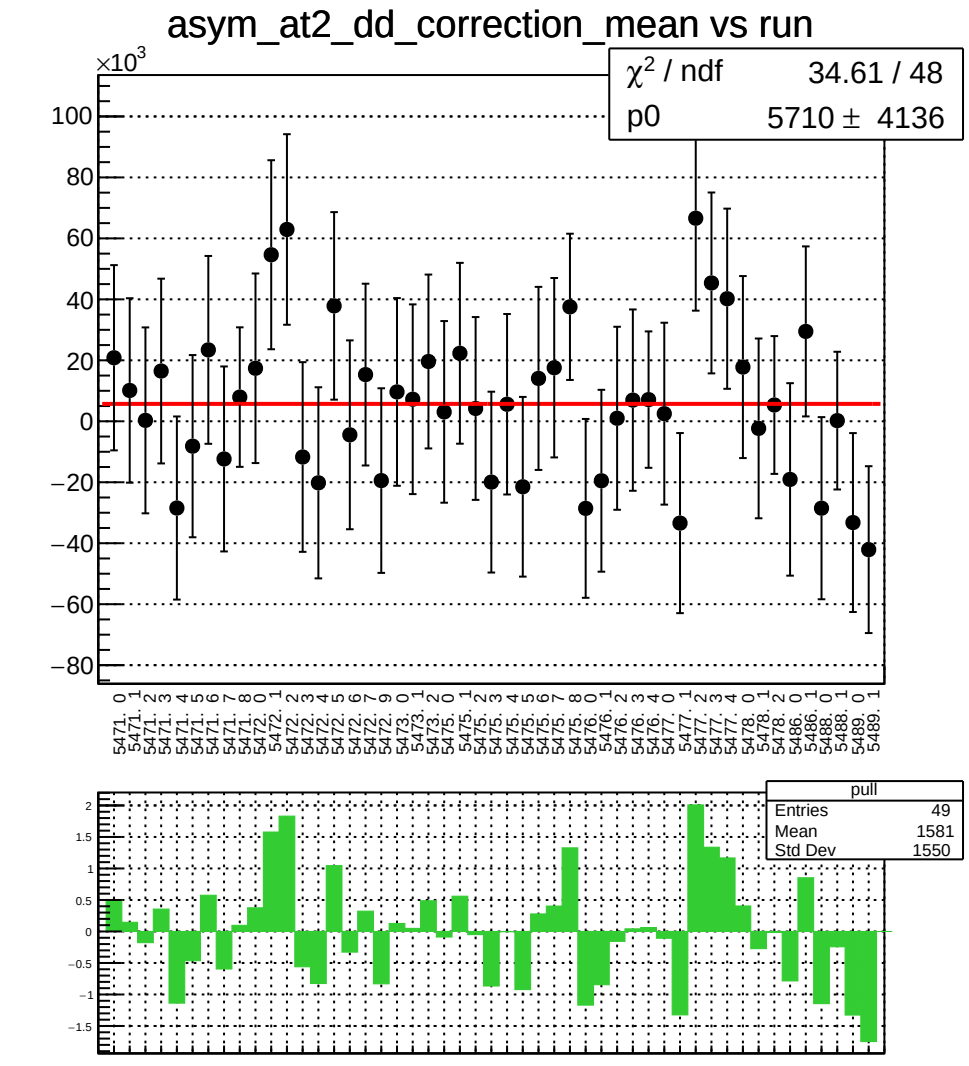

pull1D
Entries 49
Mean 0.006269
Std Dev 1.001
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

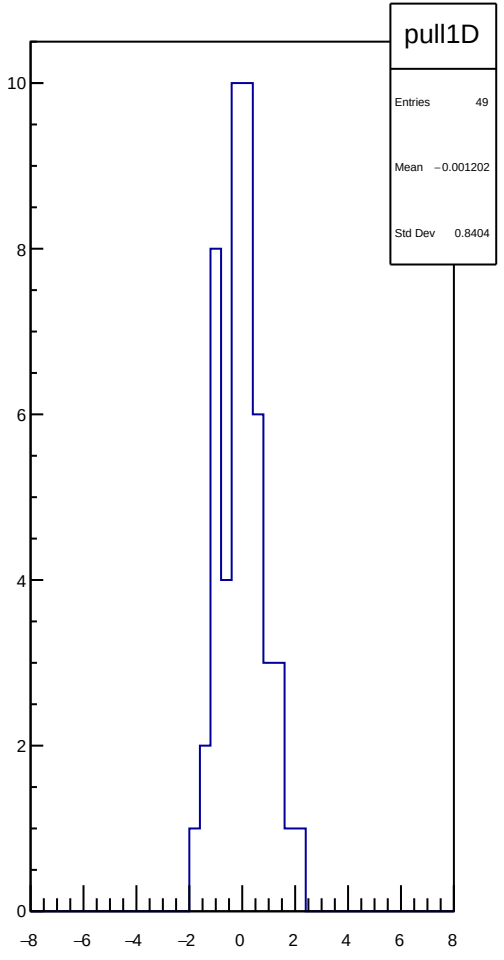

asym_at2_avg_rms vs run
×10^3
χ^2 / ndf 3.511e+04 / 50
p0 5037 ± 5.168
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

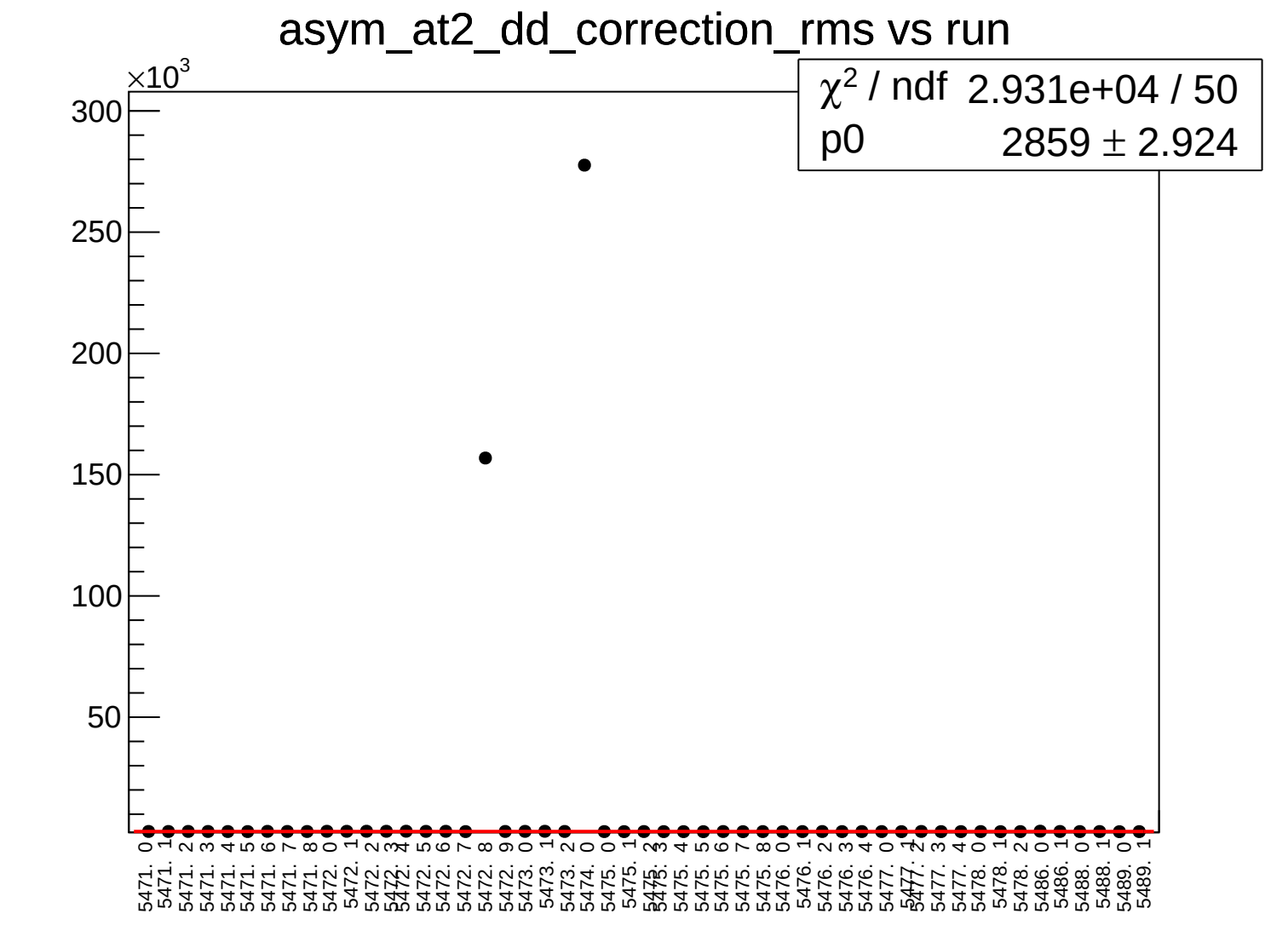

dit_asym_at2_dd_mean vs run
χ² / ndf 44.97 / 48
p0 2510 ± 1871
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 209.7
Std Dev 176.7
2
1
0
−1
−2

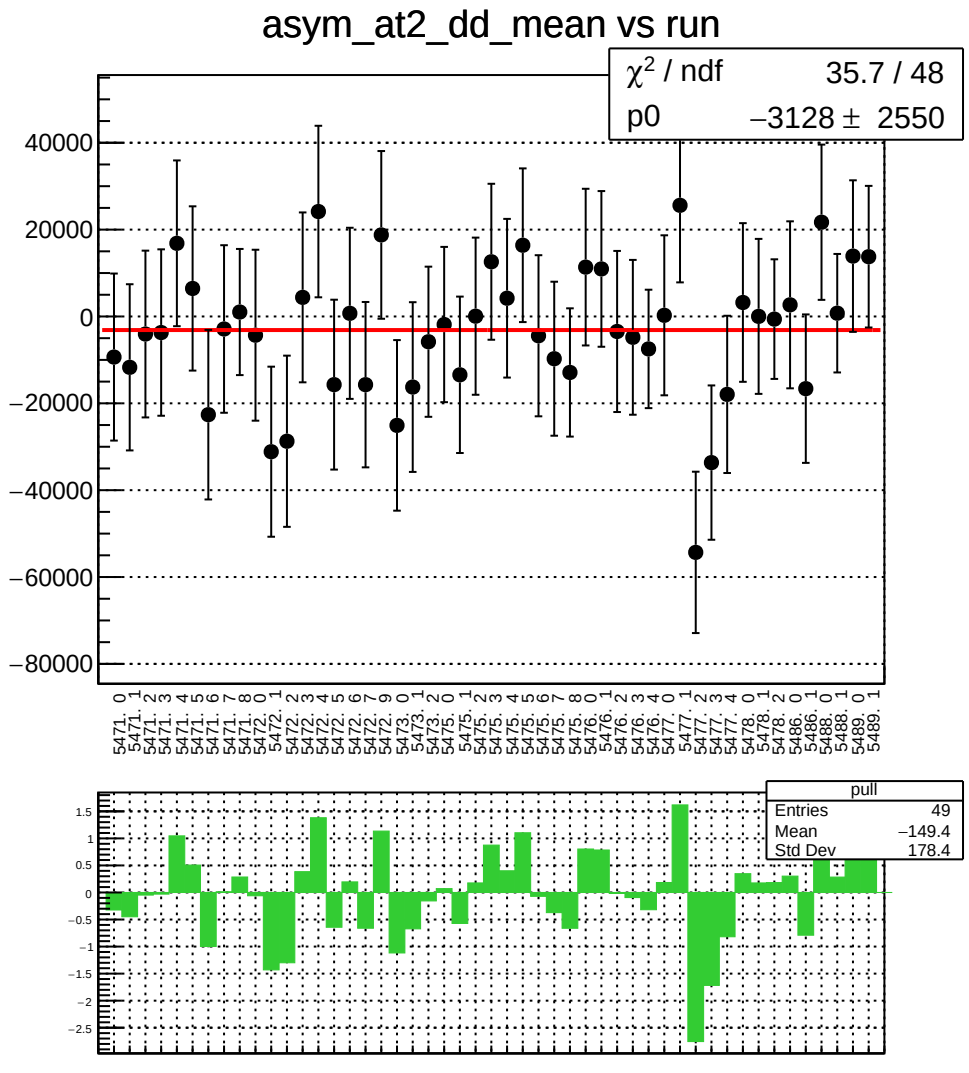

pull1D
Entries 49
Mean −0.01153
Std Dev 0.958
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

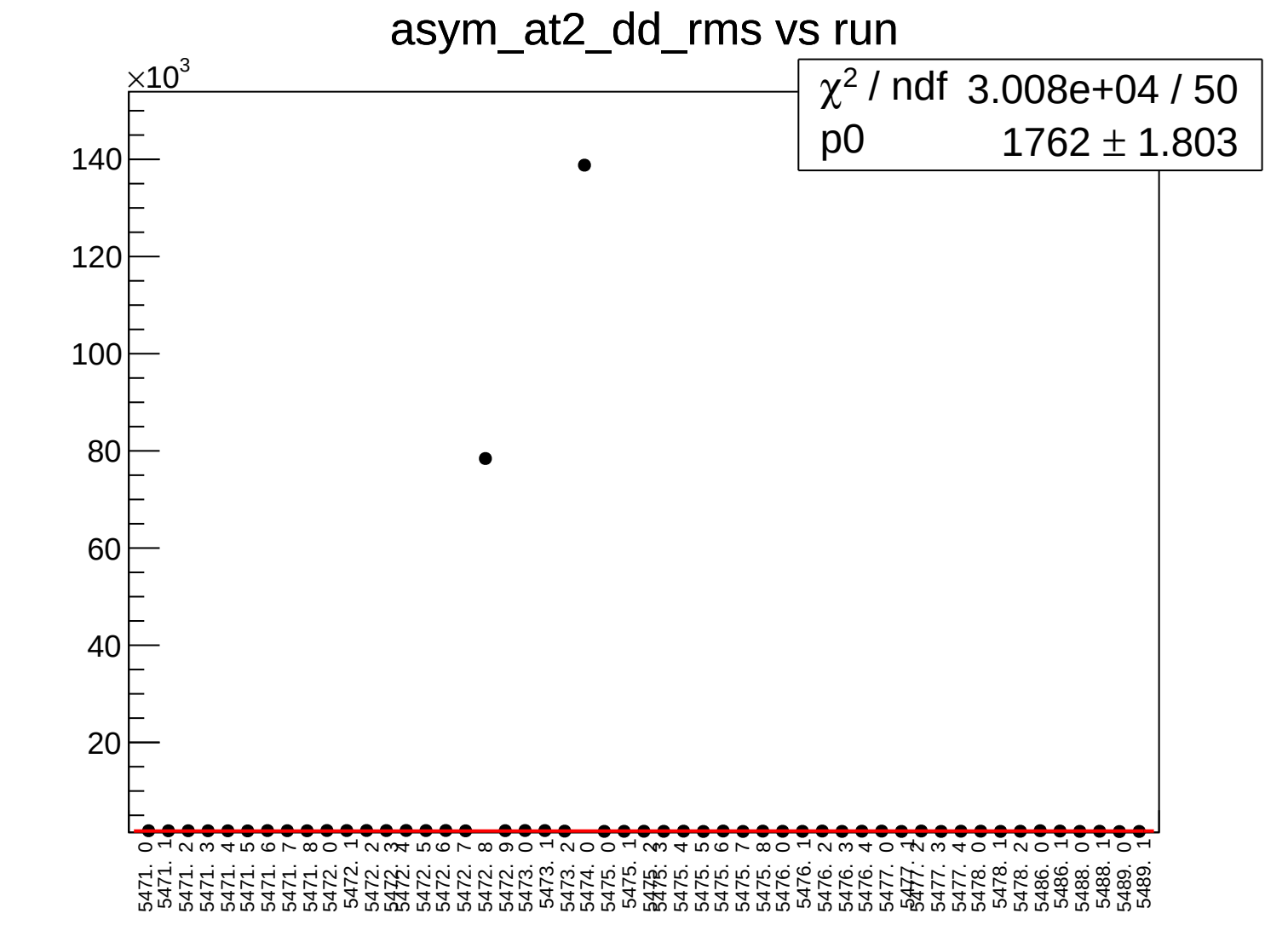

dit_asym_at2_dd_rms vs run
×10^3
χ^2 / ndf 2.928e+04 / 50
p0 1294 ± 1.323
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

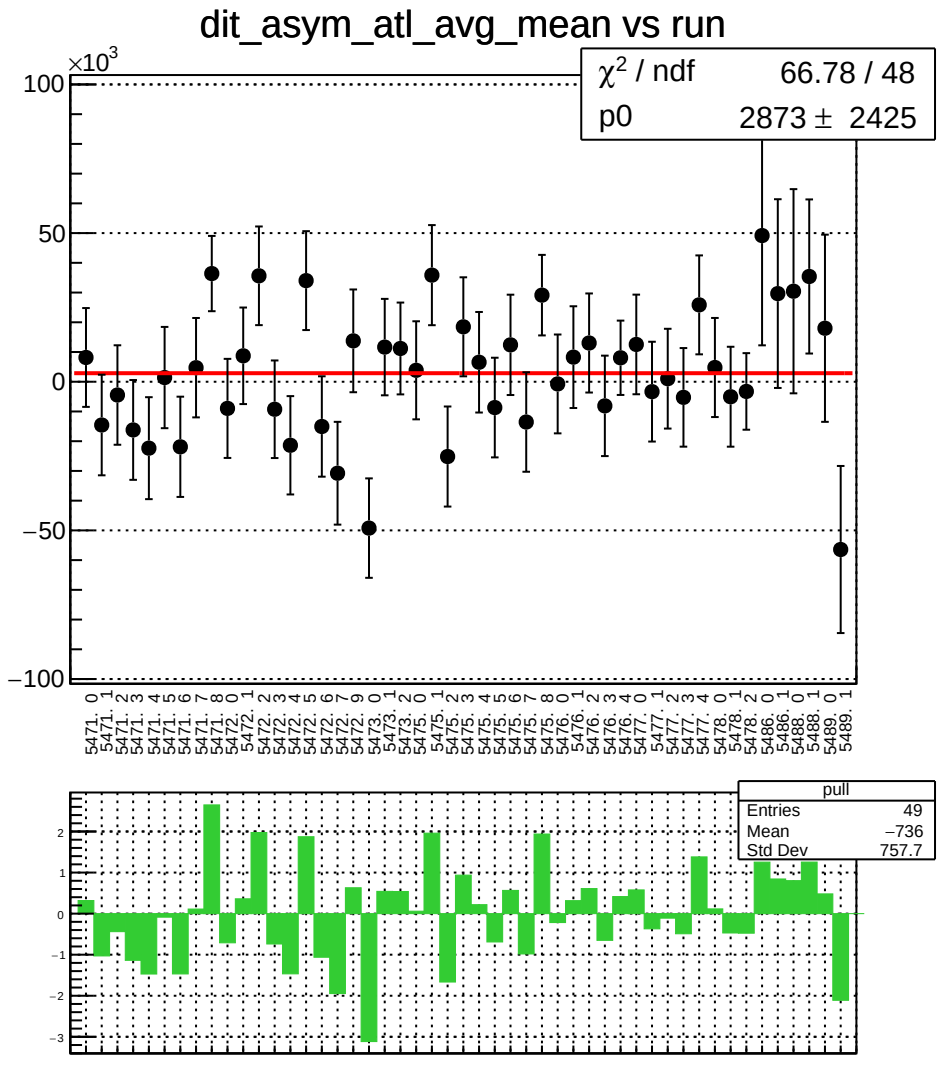

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 34.61 / 48
p0 5710 ± 4136
pull
Entries 49
Mean 1581
Std Dev 1550

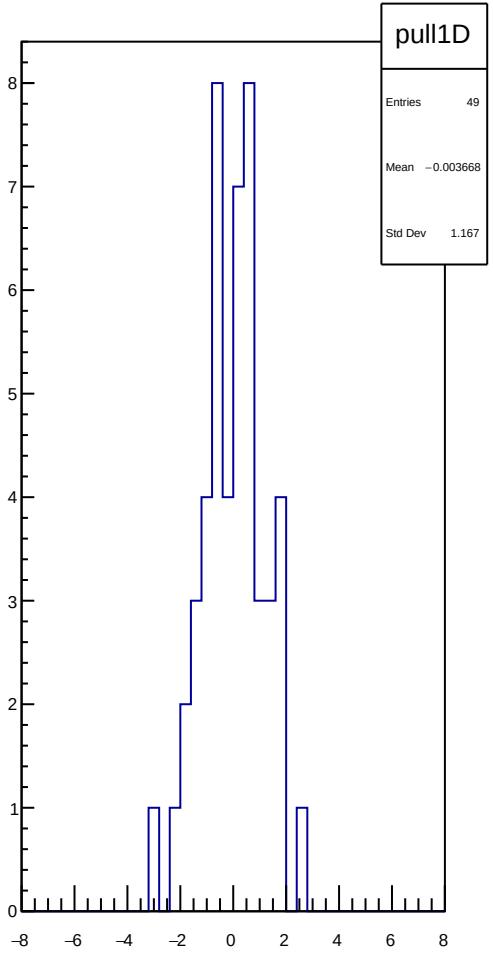

pull1D
Entries 49
Mean −0.001202
Std Dev 0.8404

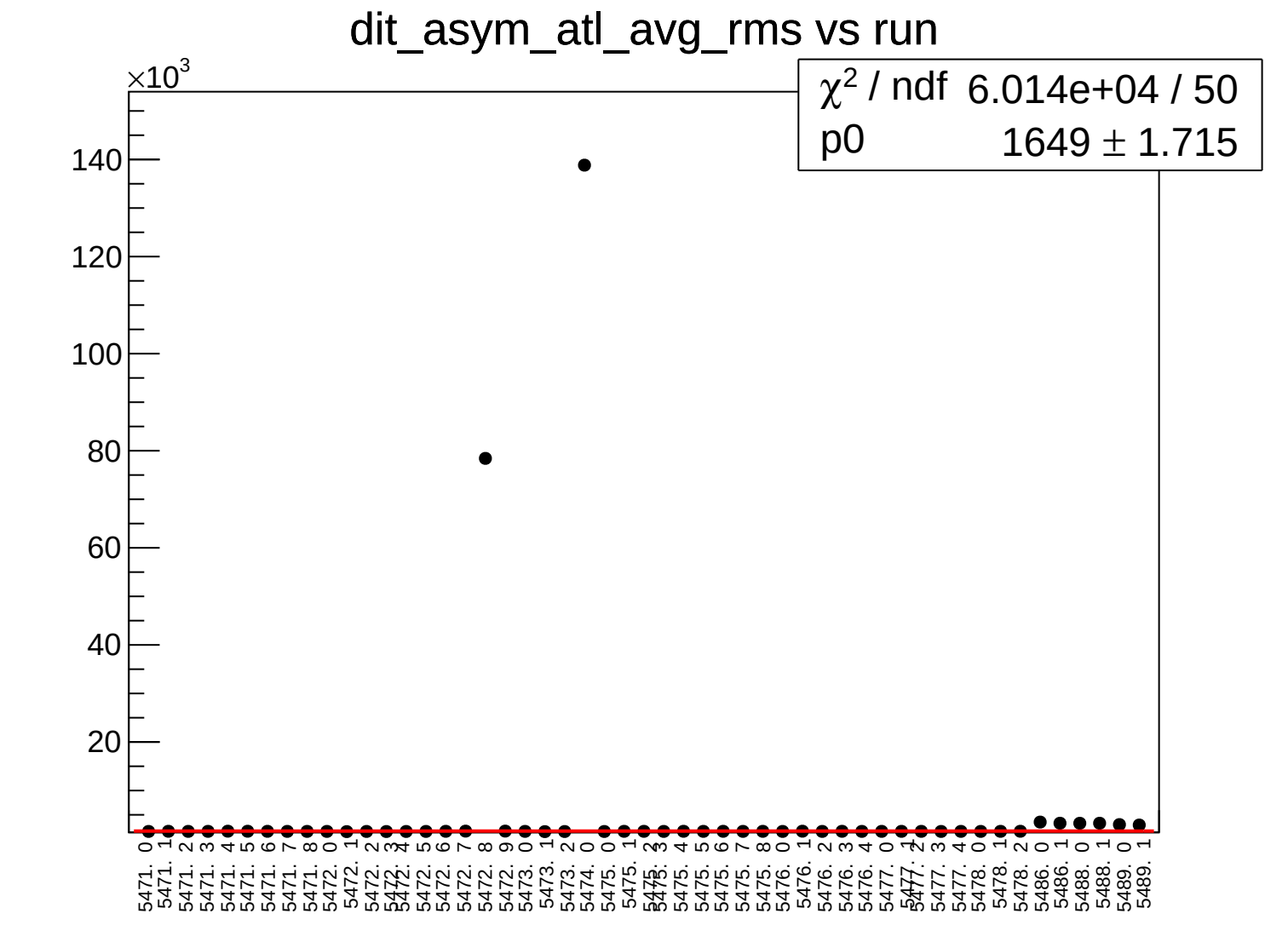

asym_at2_dd_correction_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 2.931e+04 / 50
p0 2859 ± 2.924
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

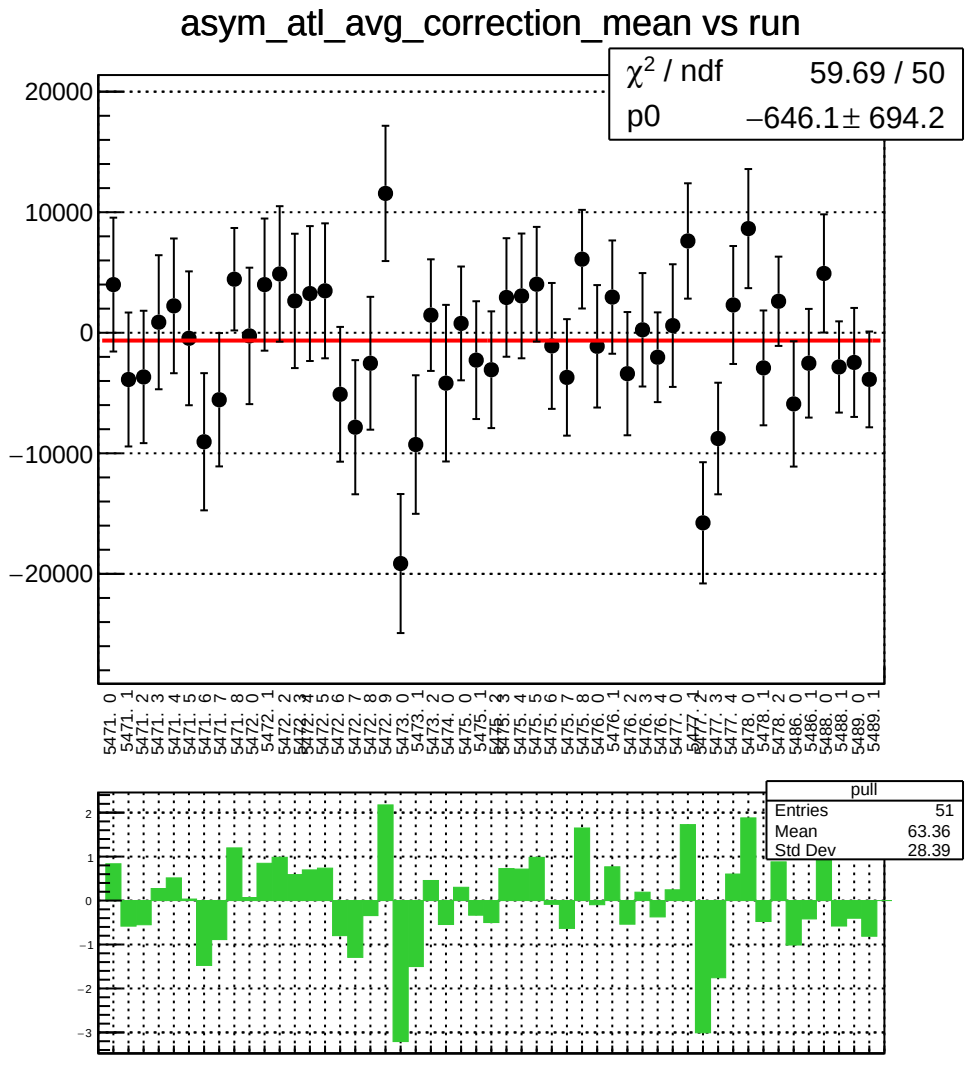

asym_at2_dd_mean vs run
χ^2 / ndf 35.7 / 48
p0 −3128 ± 2550
40000
20000
0
−20000
−40000
−60000
−80000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −149.4
Std Dev 178.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean −0.008382
Std Dev 0.8535
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

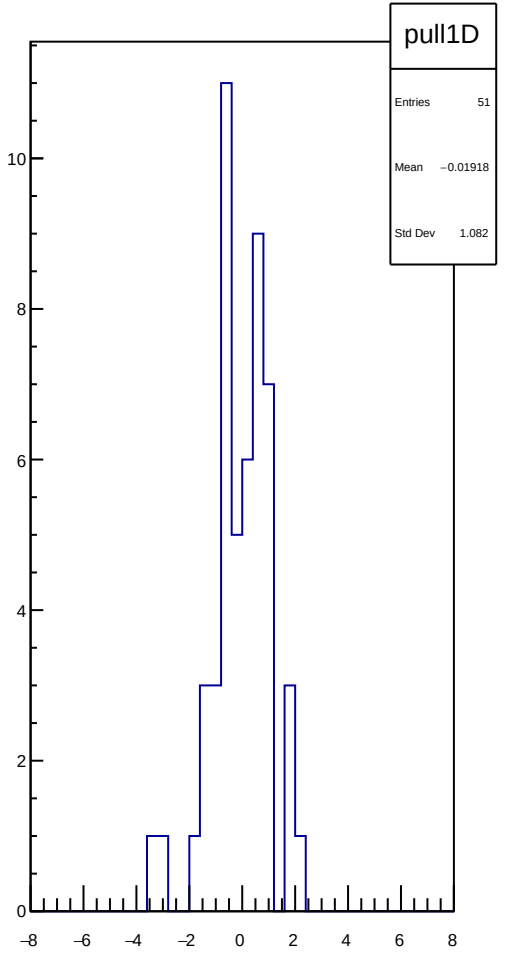

asym_at2_dd_rms vs run
×10^3
χ^2 / ndf 3.008e+04 / 50
p0 1762 ± 1.803
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

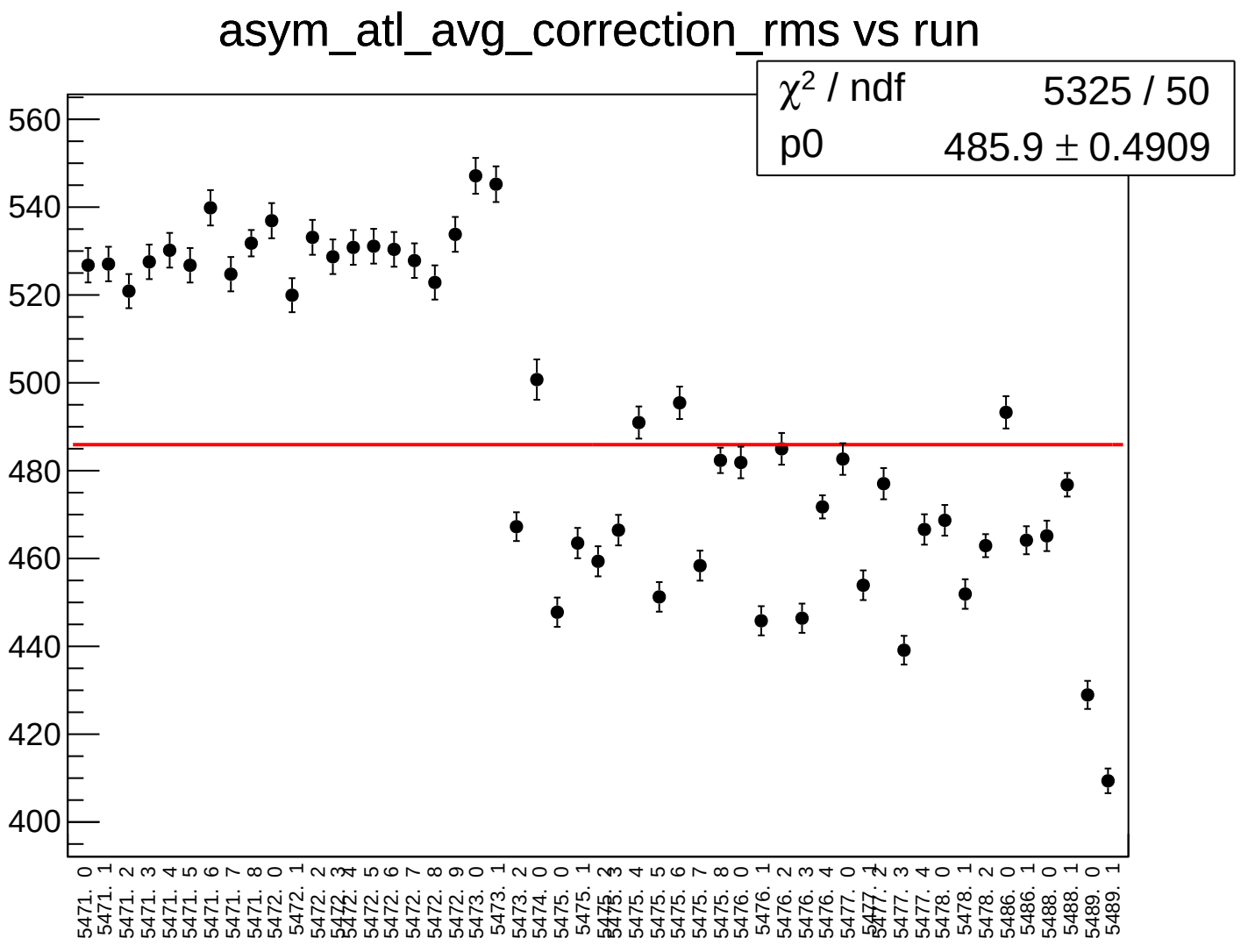

dit_asym_atl_avg_mean vs run
×10^3
χ² / ndf 66.78 / 48
p0 2873 ± 2425
100
50
0
−50
−100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −736
Std Dev 757.7
2
1
0
−1
−2
−3

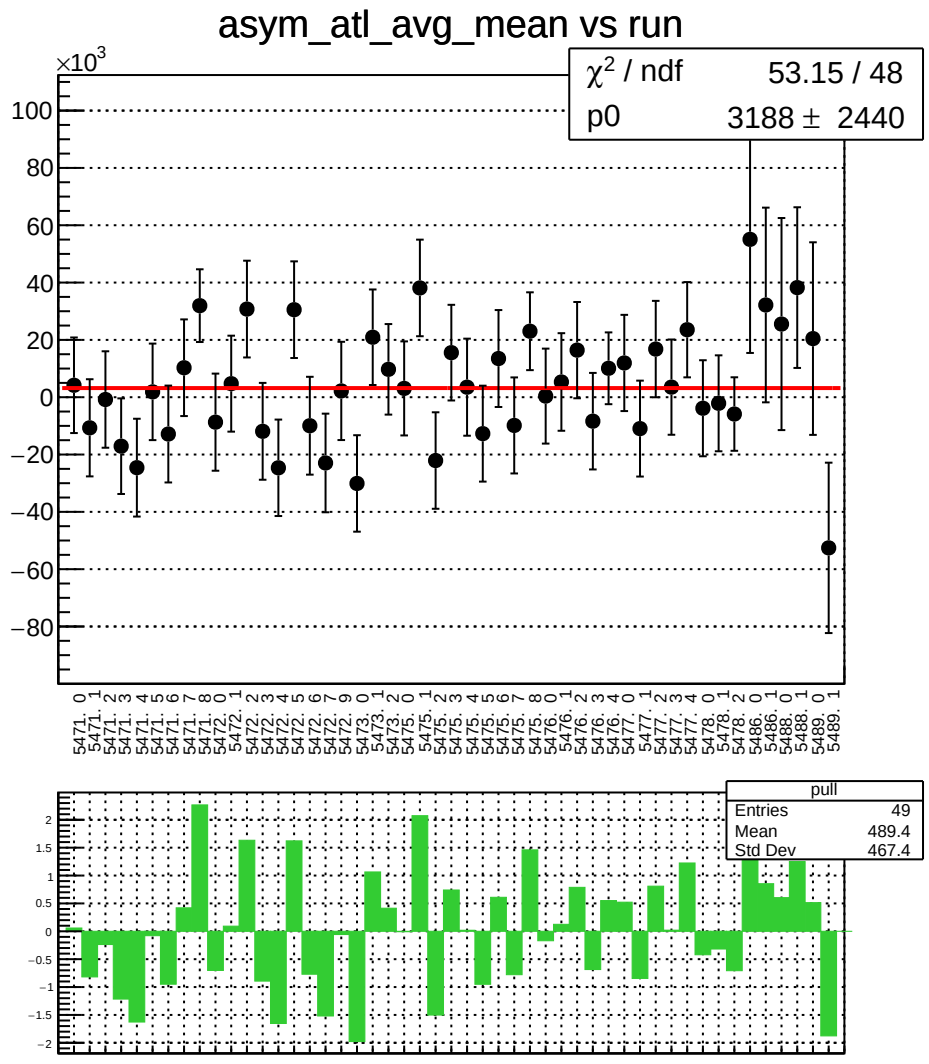

pull1D
Entries 49
Mean −0.003668
Std Dev 1.167
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

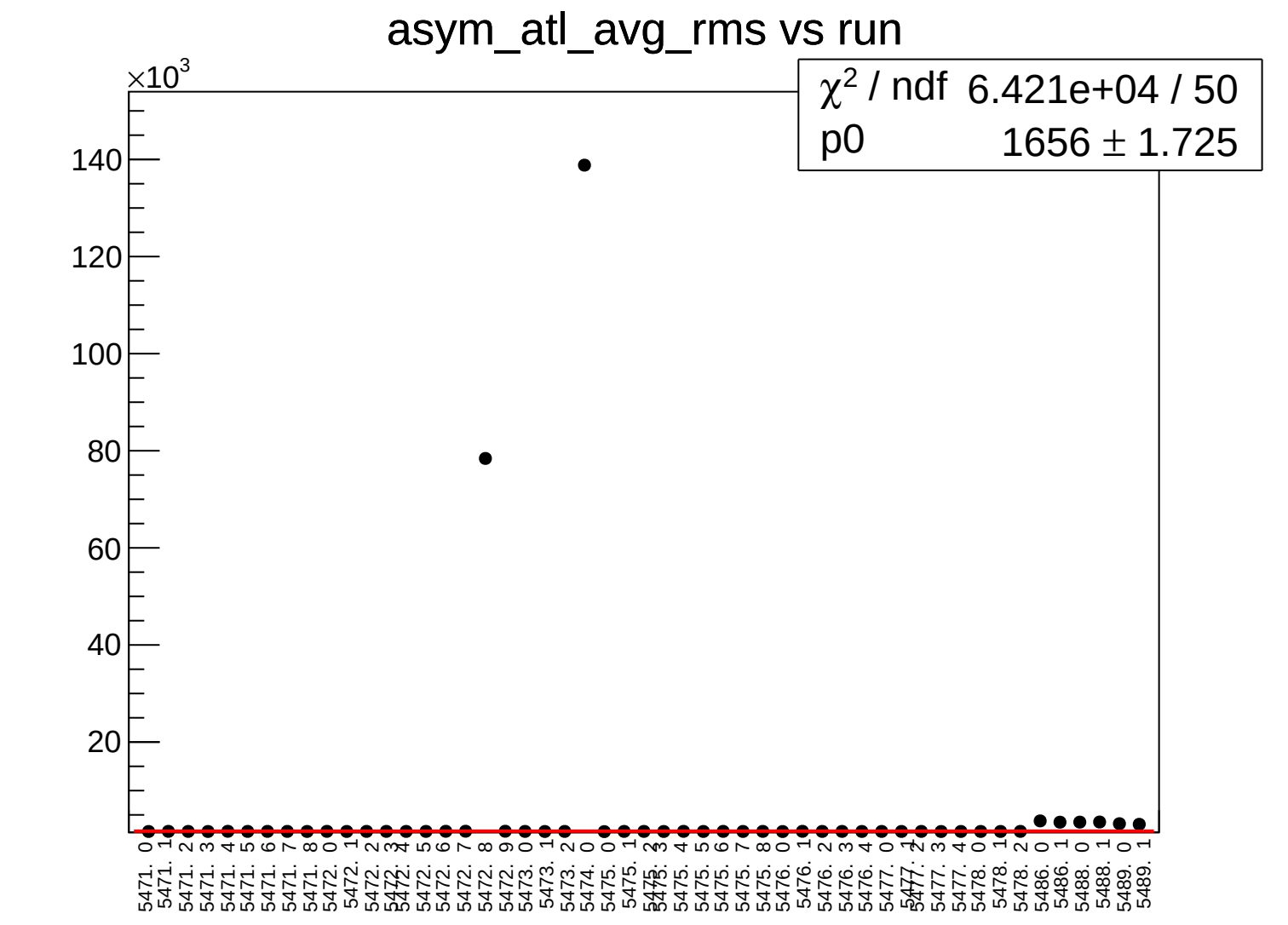

dit_asym_atl_avg_rms vs run
×10^3
χ^2 / ndf 6.014e+04 / 50
p0 1649 ± 1.715
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

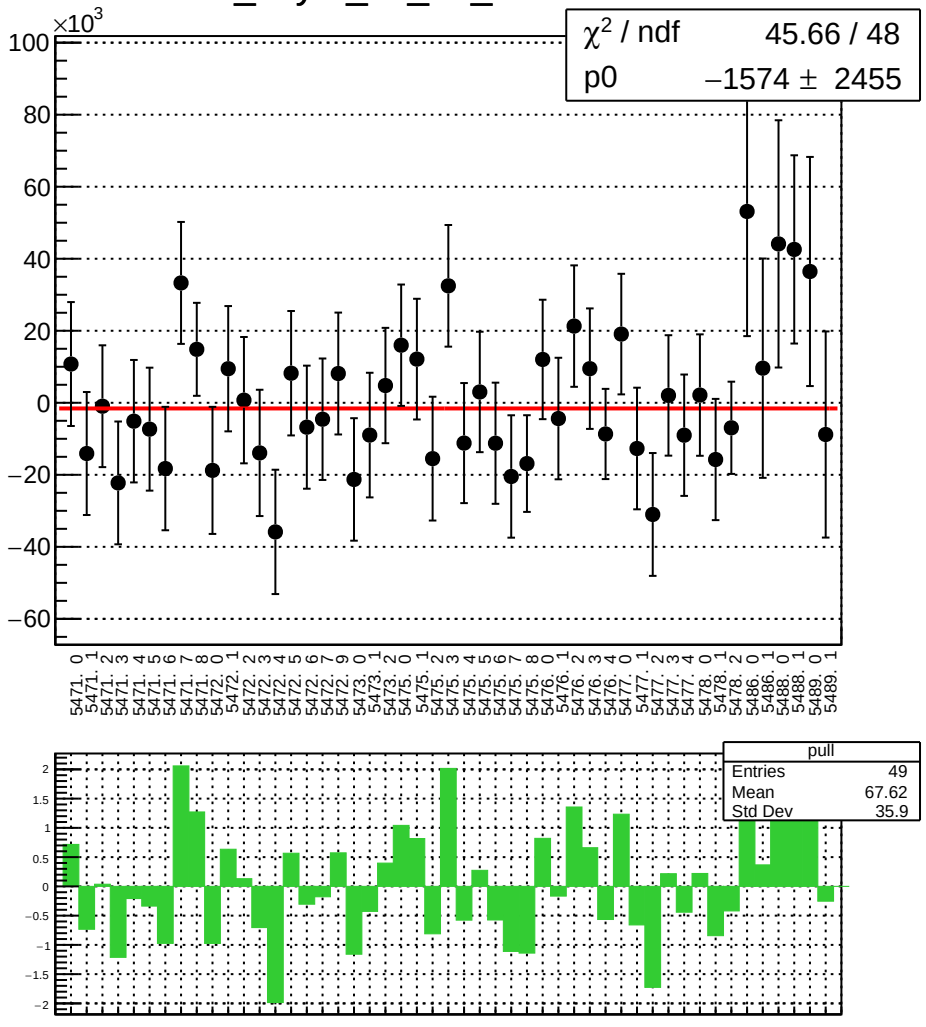

asym_atl_avg_correction_mean vs run
χ² / ndf 59.69 / 50
p0 −646.1 ± 694.2
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 63.36
Std Dev 28.39
2
1
0
−1
−2
−3

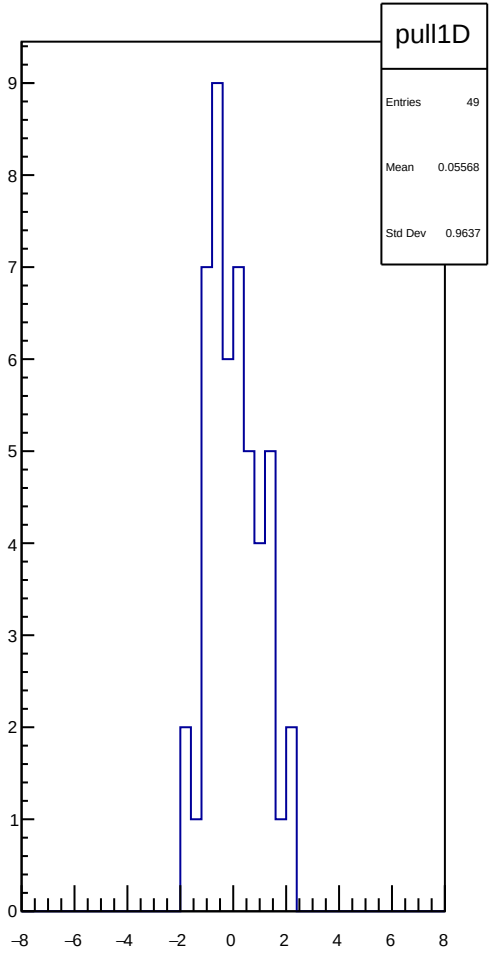

pull1D
Entries 51
Mean −0.01918
Std Dev 1.082
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

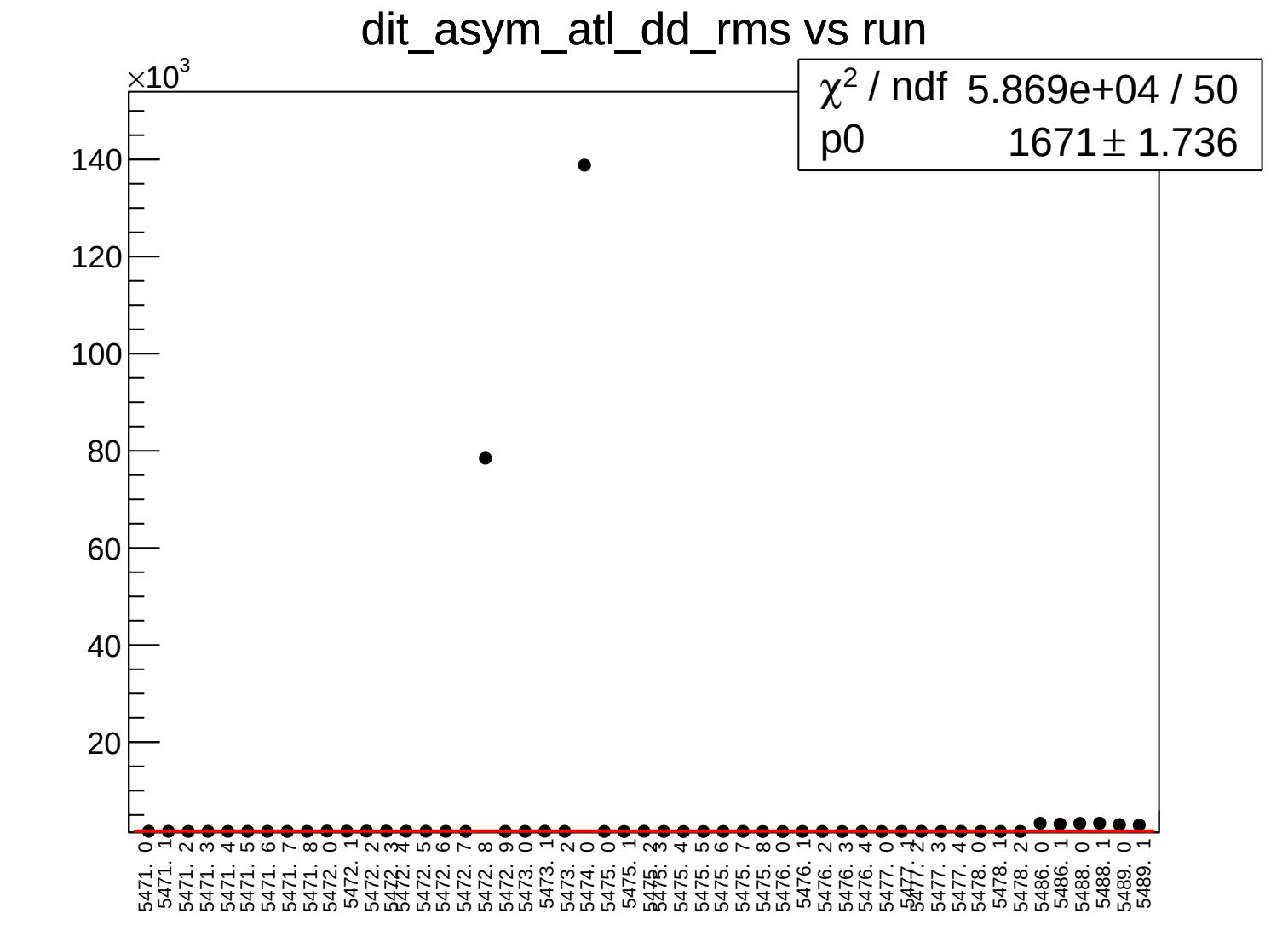

asym_atl_avg_correction_rms vs run
χ² / ndf 5325 / 50
p0 485.9 ± 0.4909
560
540
520
500
480
460
440
420
400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

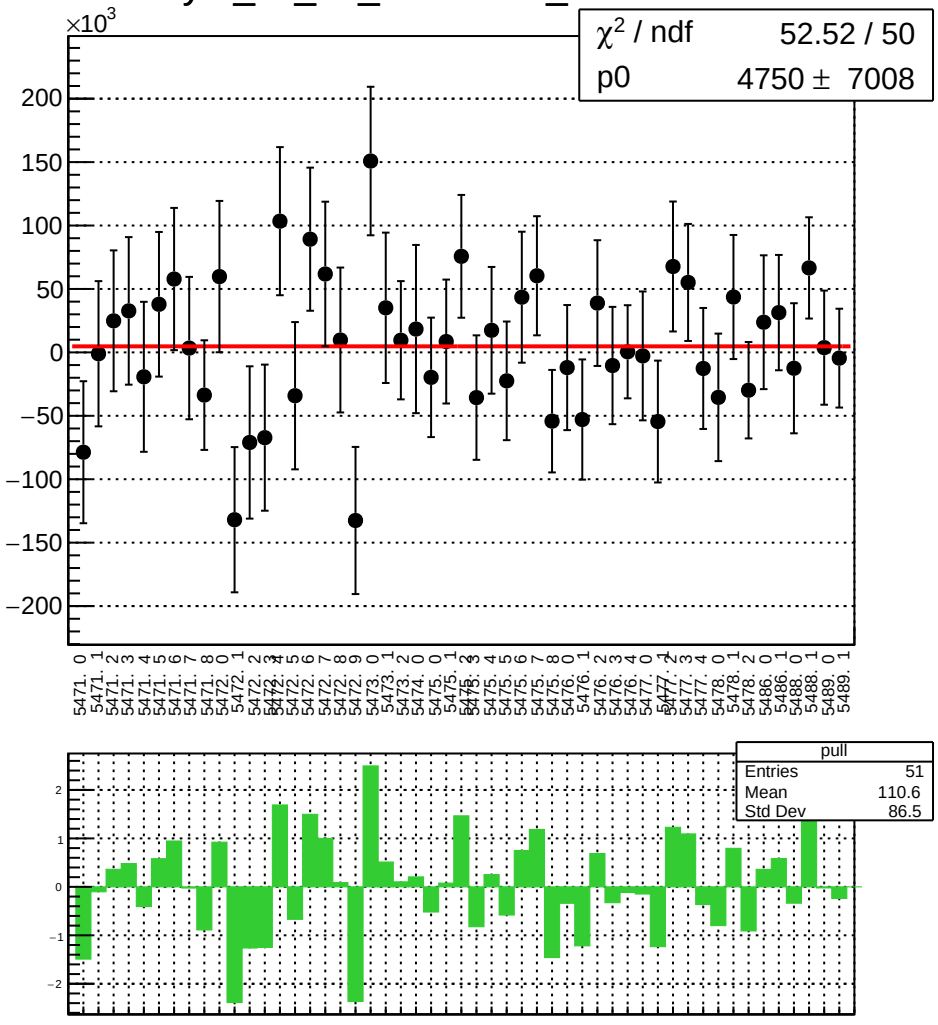

asym_atl_avg_mean vs run
×10^3
χ² / ndf 53.15 / 48
p0 3188 ± 2440
100
80
60
40
20
0
−20
−40
−60
−80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5473. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 489.4
Std Dev 467.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean 0.006004
Std Dev 1.041
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

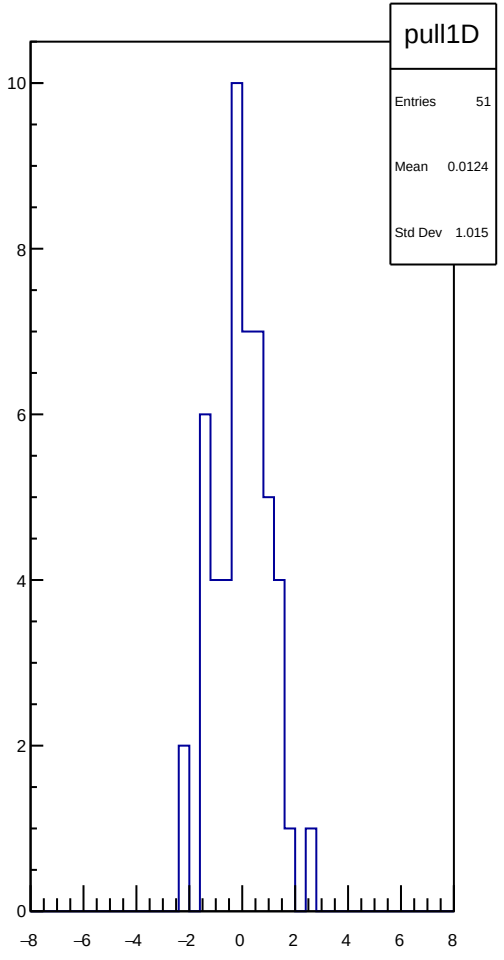

asym_atl_avg_rms vs run
×10^3
χ^2 / ndf 6.421e+04 / 50
p0 1656 ± 1.725
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

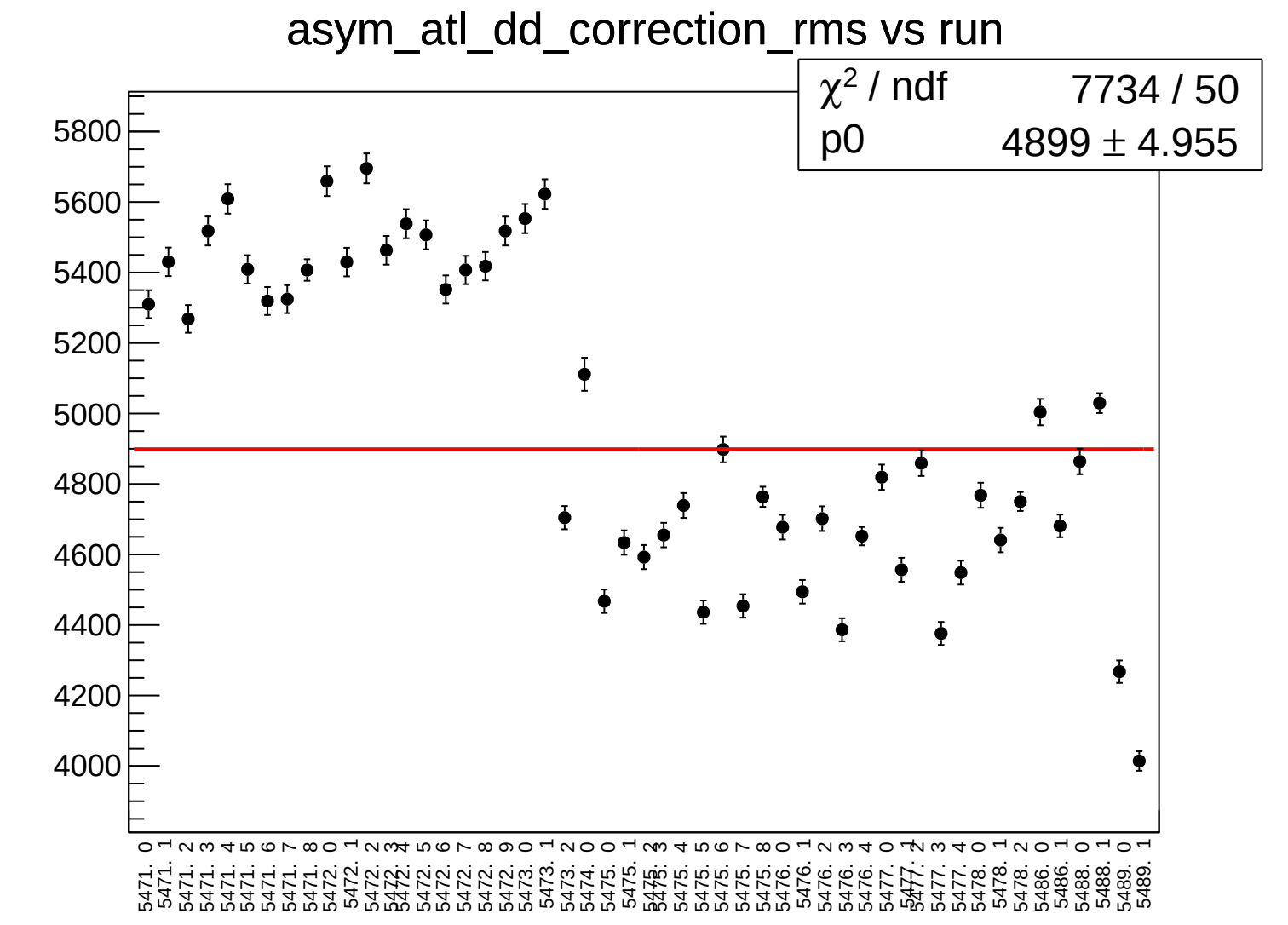

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 45.66 / 48
p0 −1574 ± 2455
pull
Entries 49
Mean 67.62
Std Dev 35.9

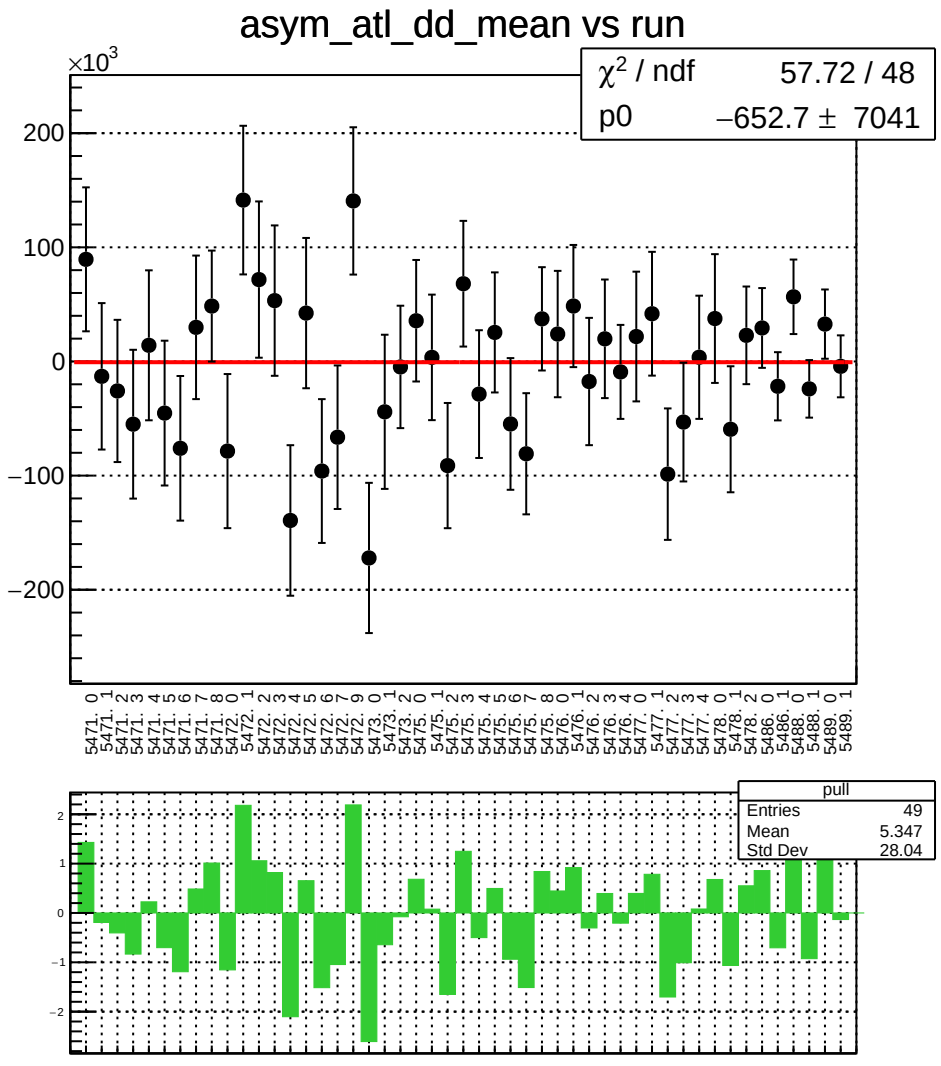

pull1D
Entries 49
Mean 0.05568
Std Dev 0.9637

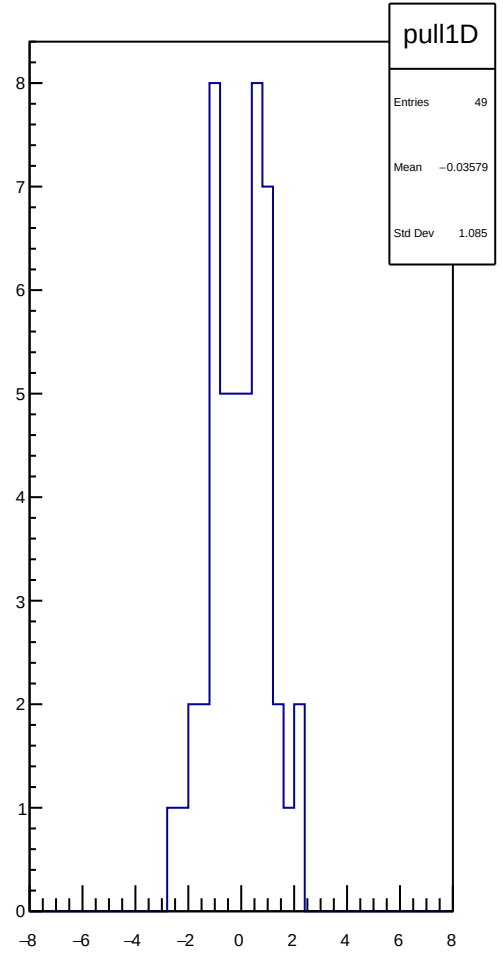

dit_asym_atl_dd_rms vs run
×10^3
χ^2 / ndf 5.869e+04 / 50
p0 1671 ± 1.736
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

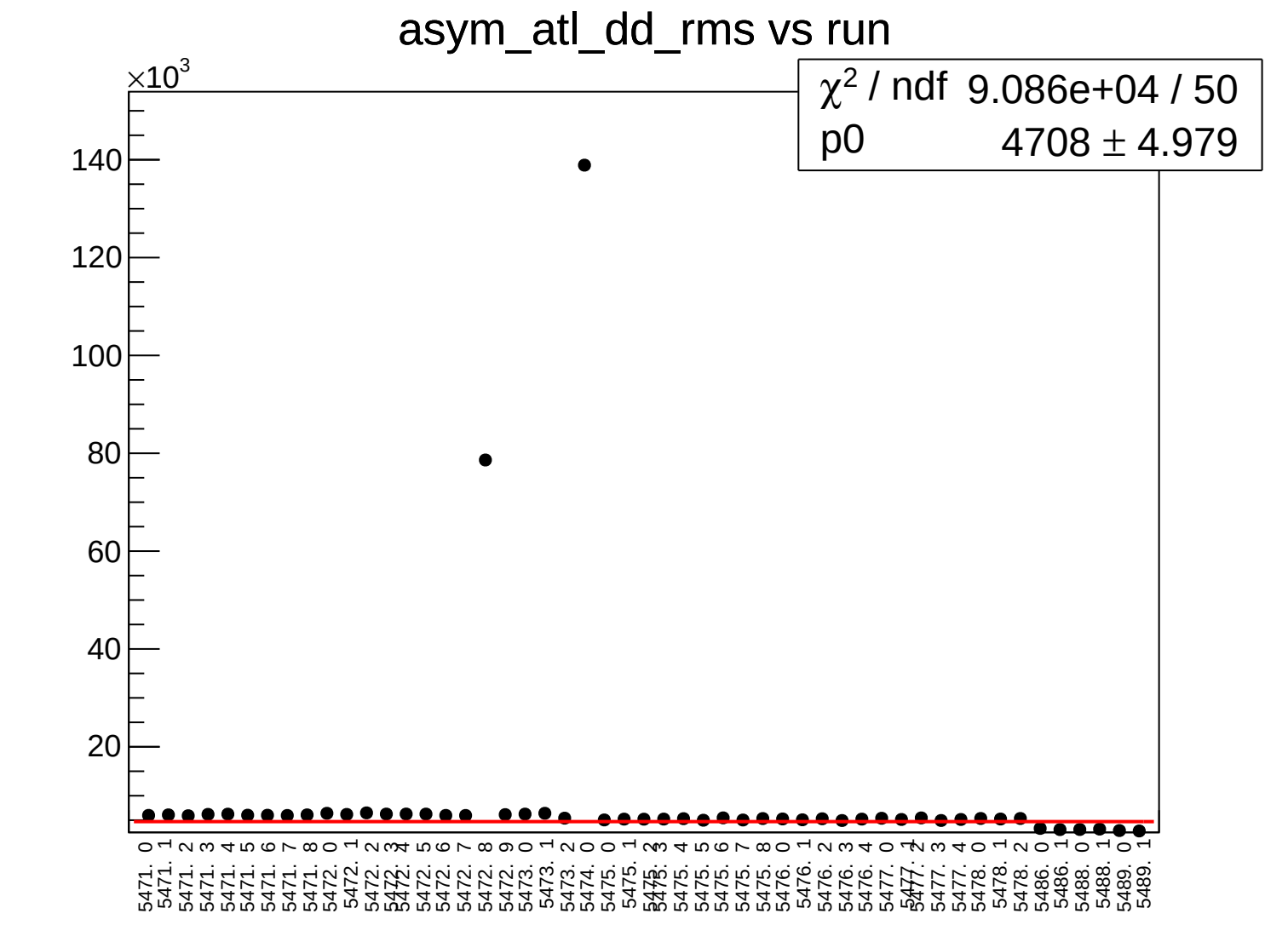

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 52.52 / 50
p0 4750 ± 7008
pull
Entries 51
Mean 110.6
Std Dev 86.5

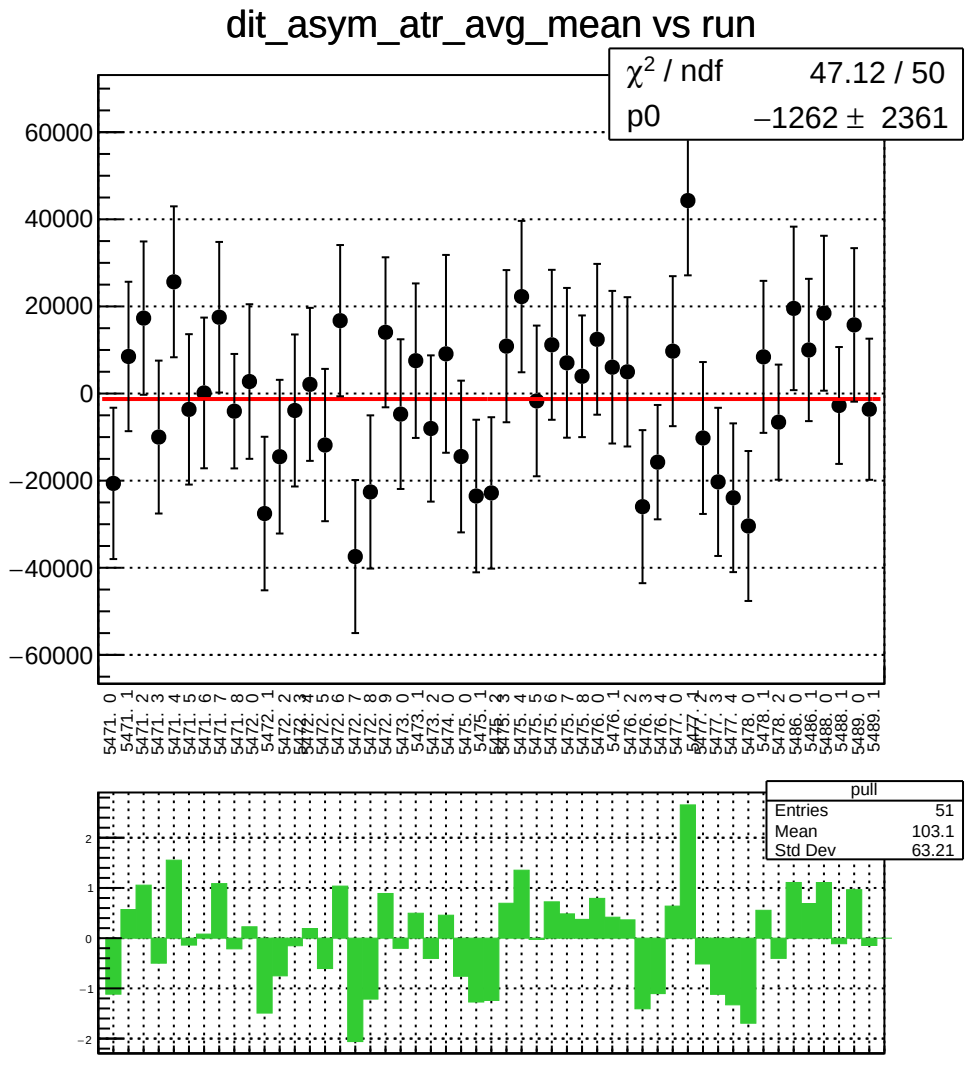

pull1D
Entries 51
Mean 0.0124
Std Dev 1.015

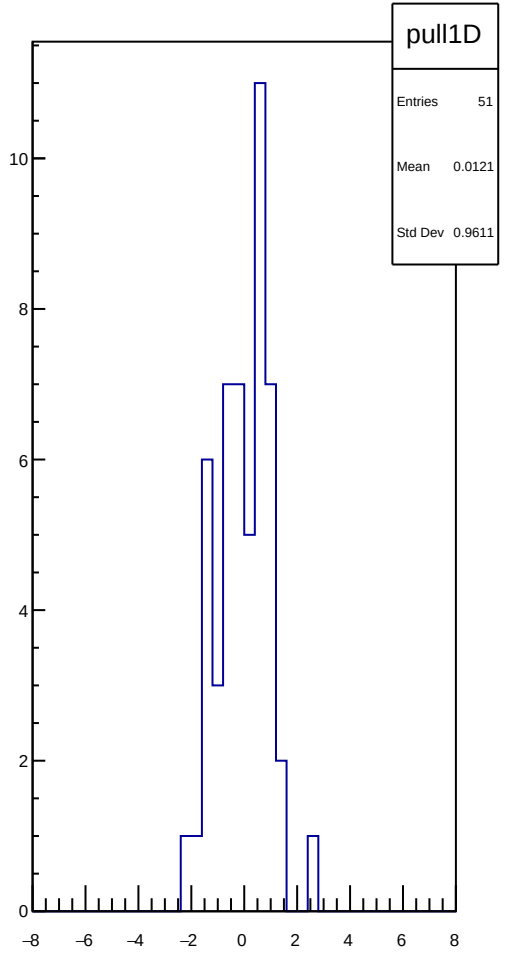

asym_atl_dd_correction_rms vs run
χ² / ndf 7734 / 50
p0 4899 ± 4.955
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

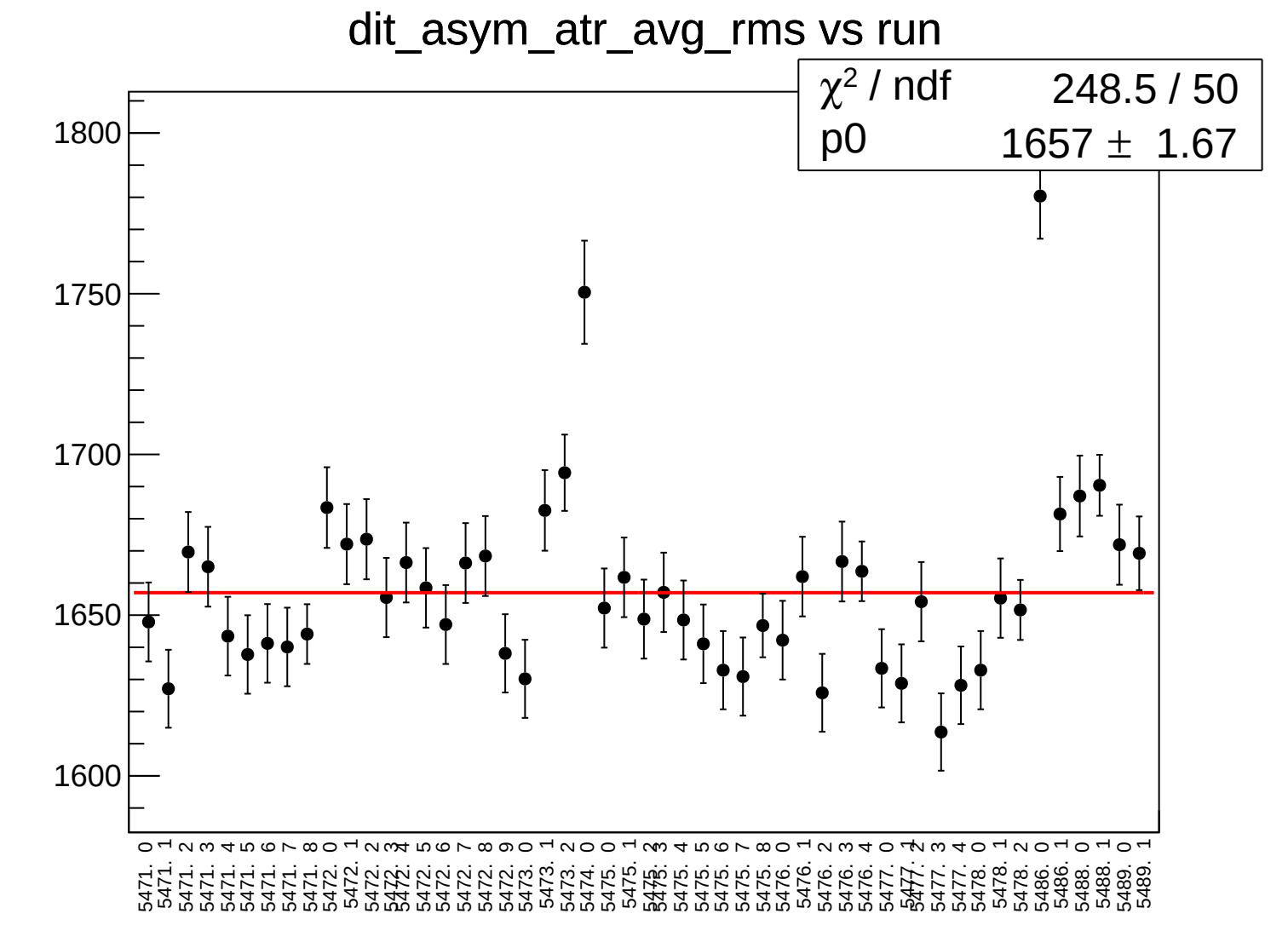

asym_atl_dd_mean vs run
×10^3
χ² / ndf 57.72 / 48
p0 −652.7 ± 7041
200
100
0
−100
−200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 5.347
Std Dev 28.04
2
1
0
−1
−2

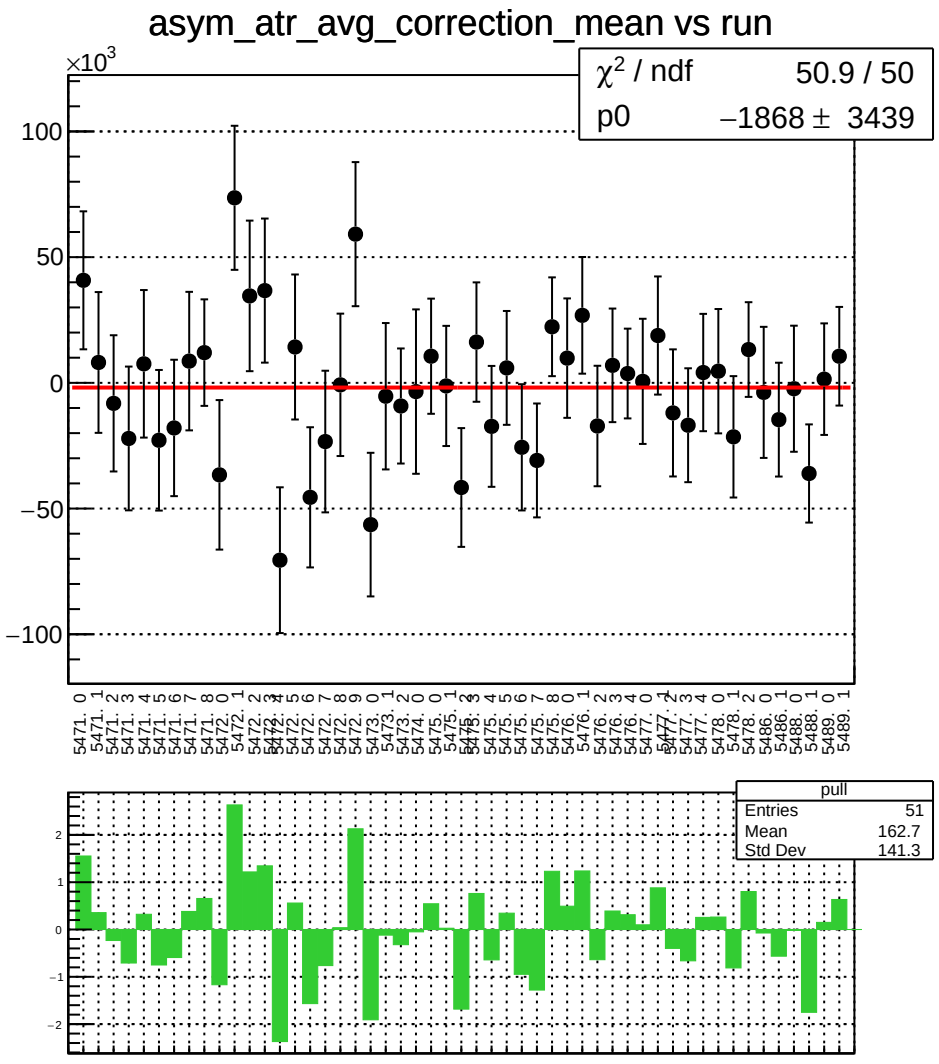

pull1D
Entries 49
Mean −0.03579
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

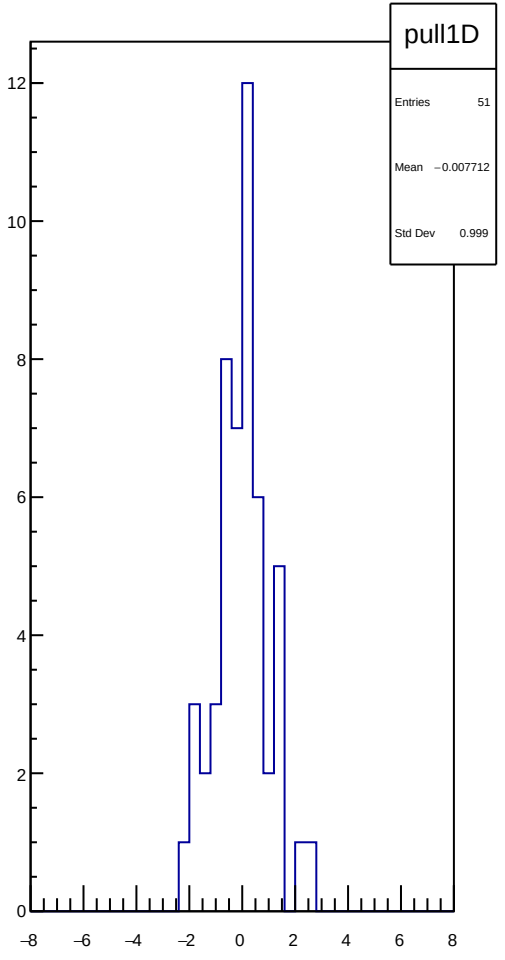

asym_atl_dd_rms vs run
×10^3
χ^2 / ndf 9.086e+04 / 50
p0 4708 ± 4.979
140
120
100
80
60
40
20
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

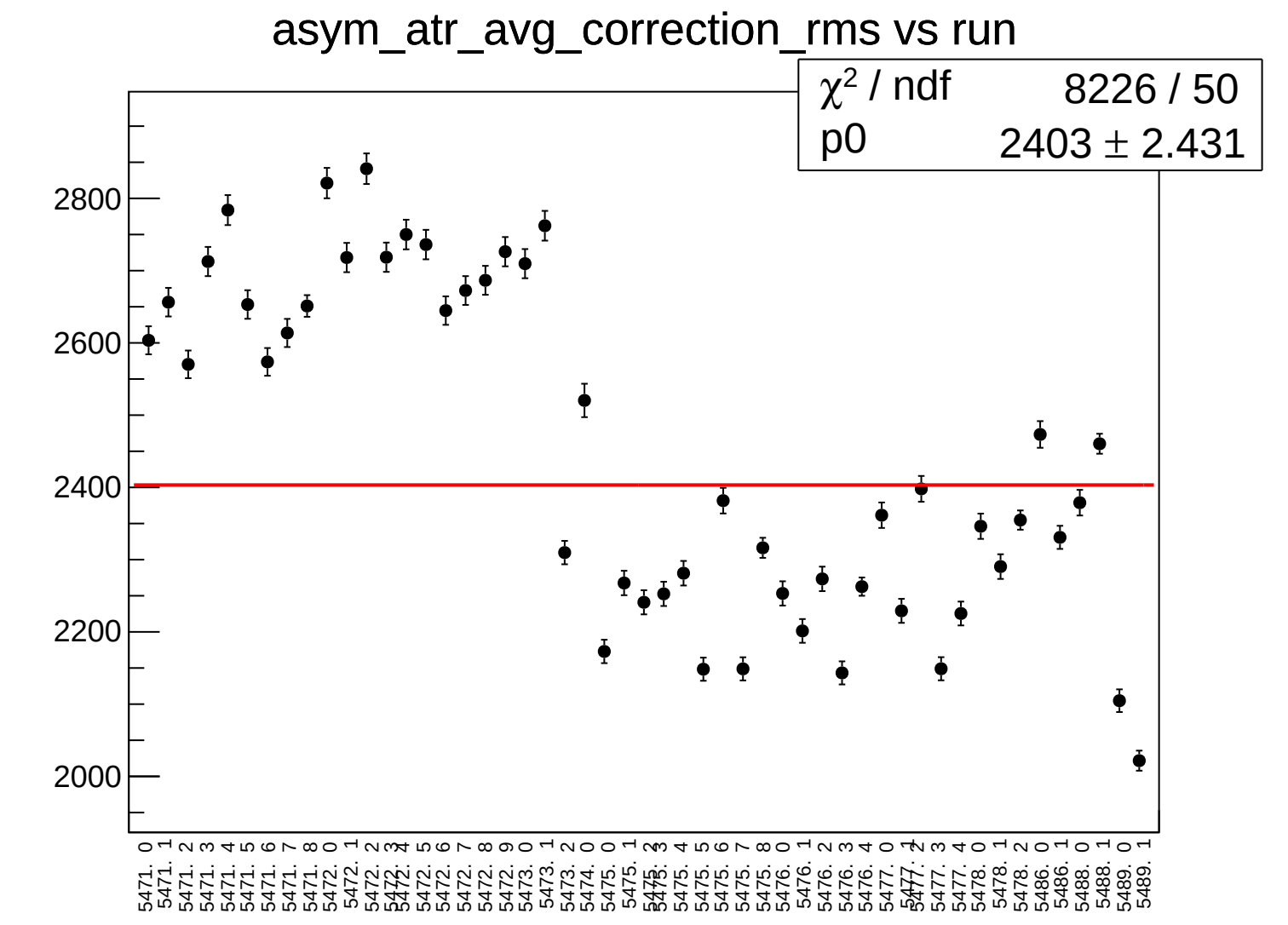

dit_asym_atr_avg_mean vs run
χ² / ndf 47.12 / 50
p0 −1262 ± 2361
pull
Entries 51
Mean 103.1
Std Dev 63.21

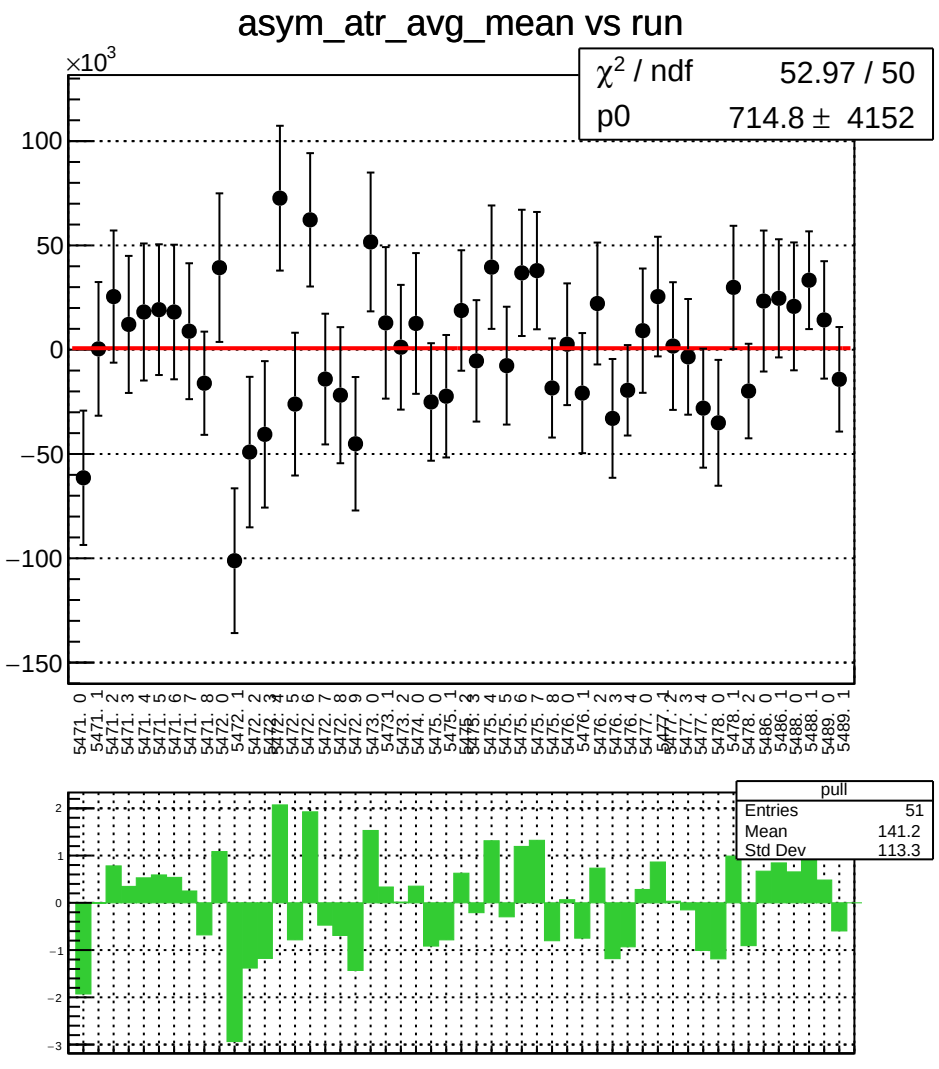

pull1D
Entries 51
Mean 0.0121
Std Dev 0.9611

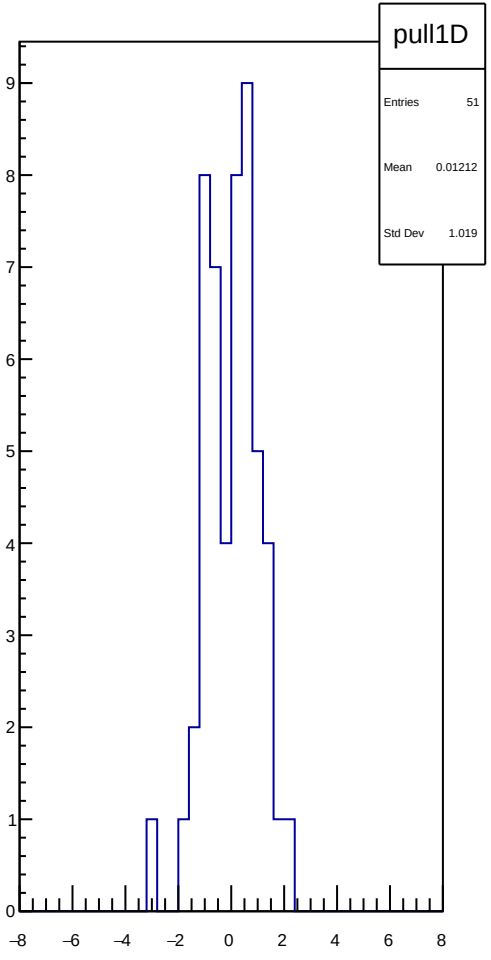

dit_asym_atr_avg_rms vs run
χ² / ndf 248.5 / 50
p0 1657 ± 1.67
1800
1750
1700
1650
1600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

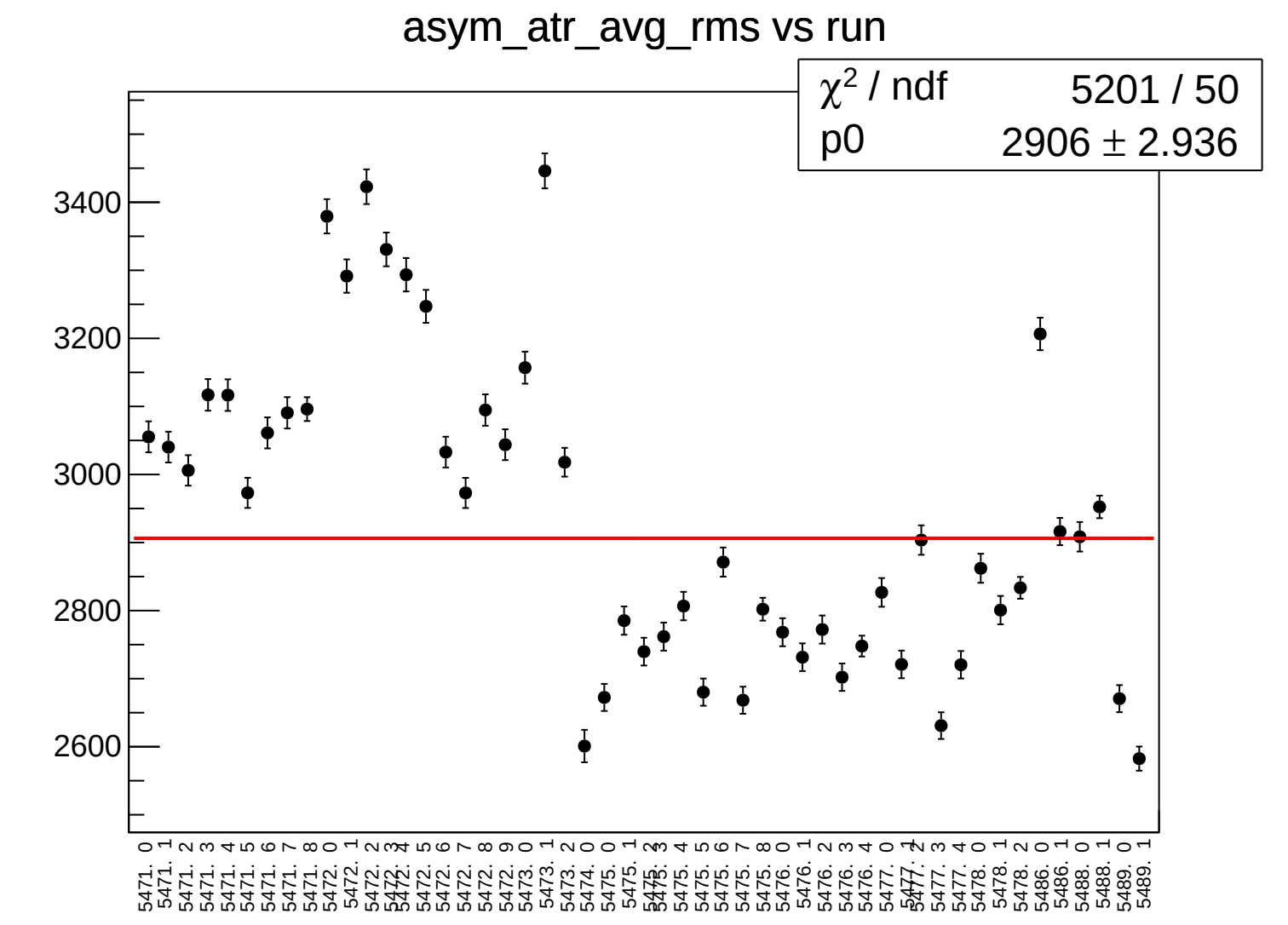

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 50.9 / 50
p0 −1868 ± 3439
100
50
0
−50
−100
pull
Entries 51
Mean 162.7
Std Dev 141.3
2
1
0
−1
−2

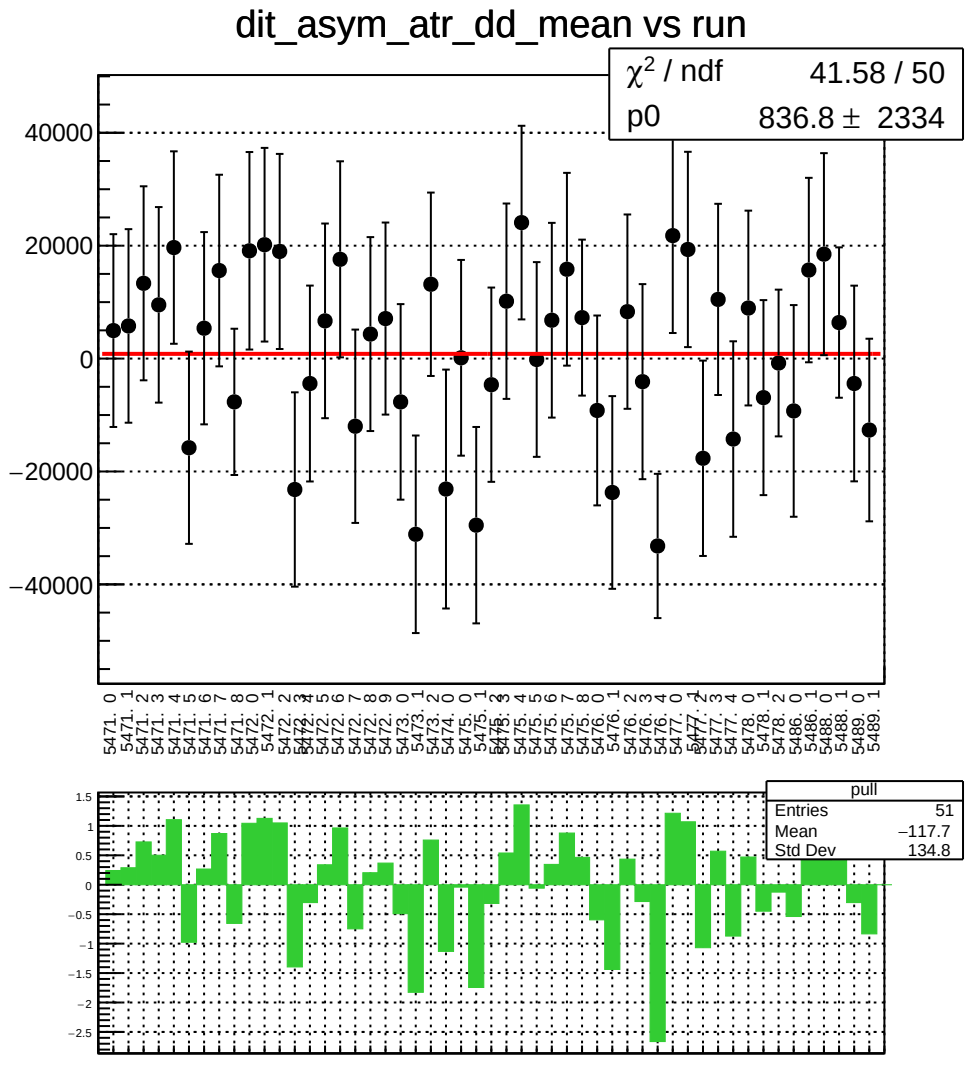

pull1D
Entries 51
Mean −0.007712
Std Dev 0.999
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

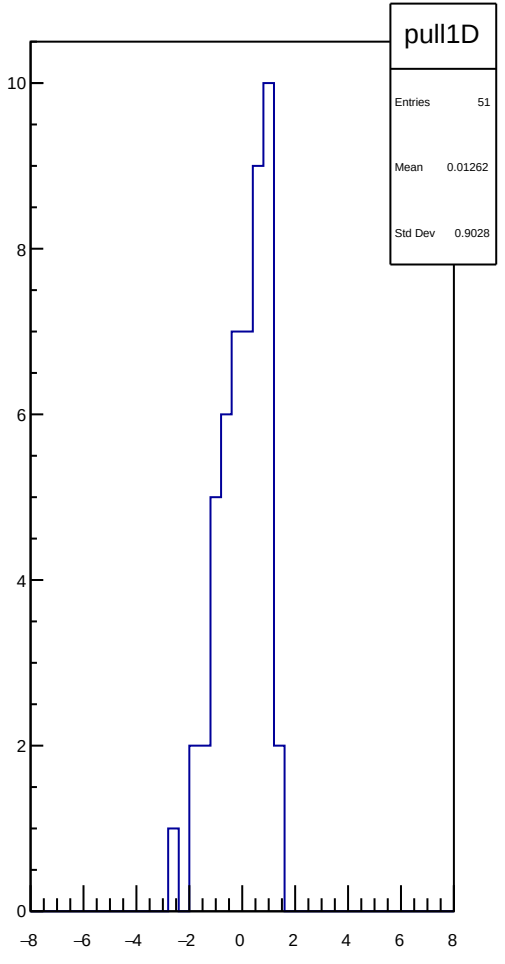

asym_atr_avg_correction_rms vs run
χ² / ndf 8226 / 50
p0 2403 ± 2.431
2800
2600
2400
2200
2000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

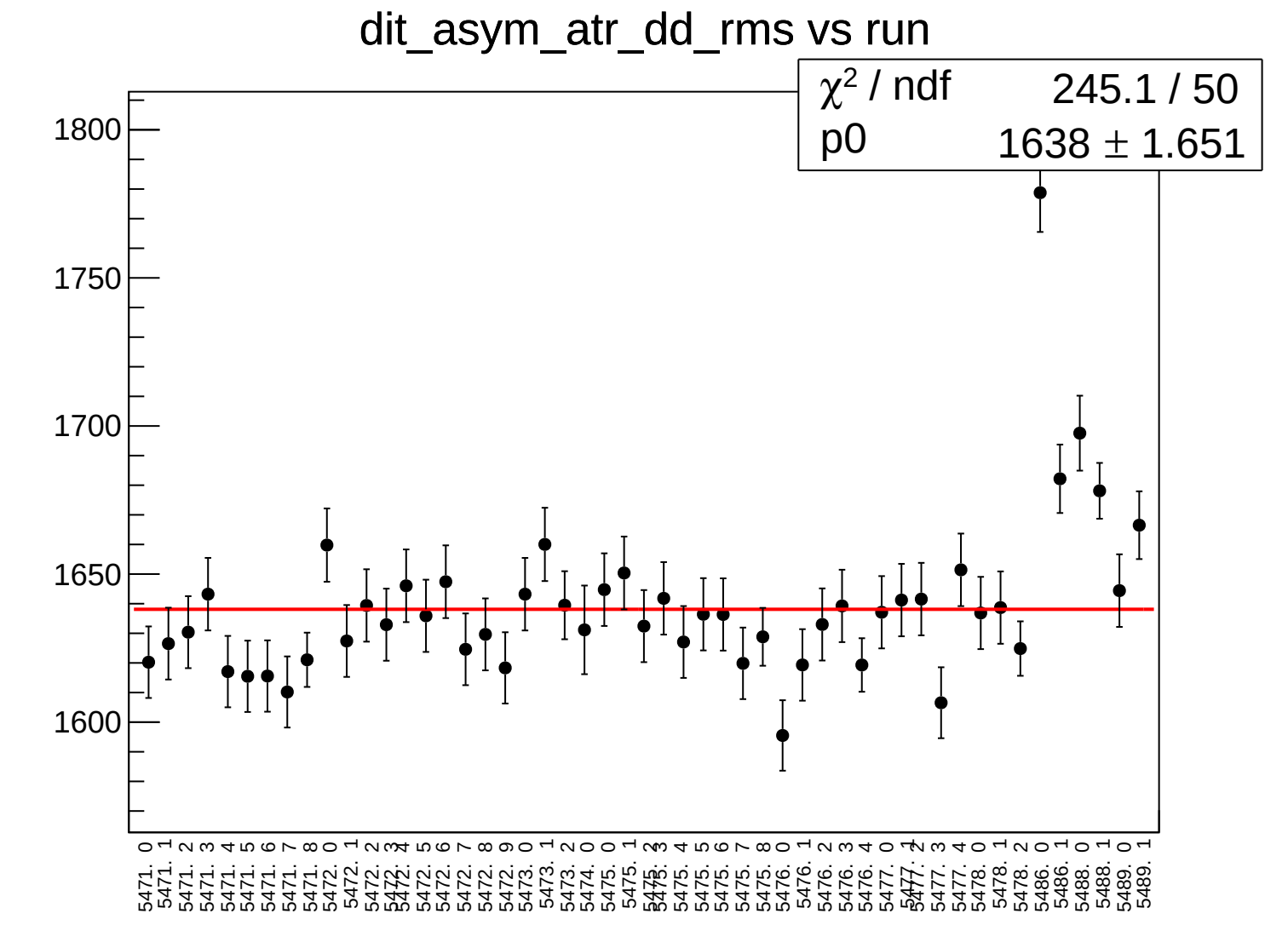

asym_atr_avg_mean vs run
×10^3
χ² / ndf 52.97 / 50
p0 714.8 ± 4152
100
50
0
−50
−100
−150
pull
Entries 51
Mean 141.2
Std Dev 113.3
2
1
0
−1
−2
−3

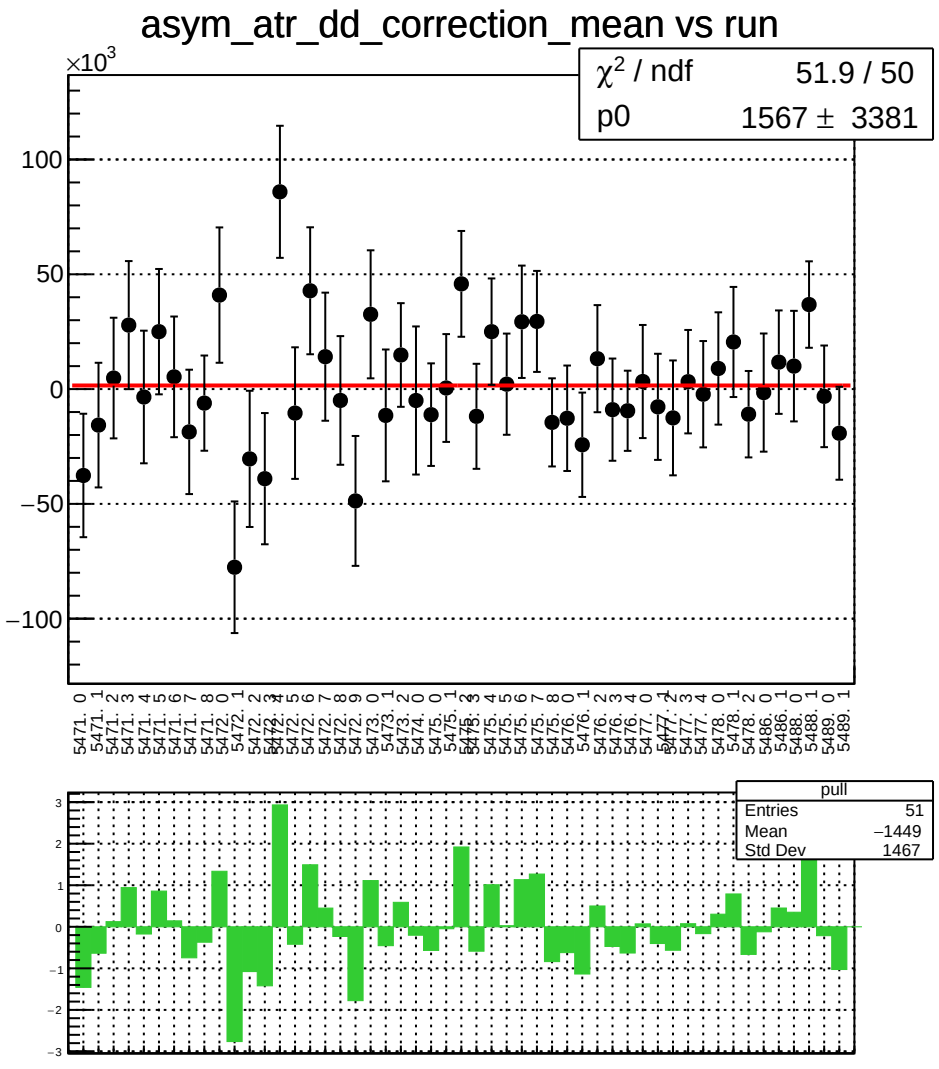

pull1D
Entries 51
Mean 0.01212
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

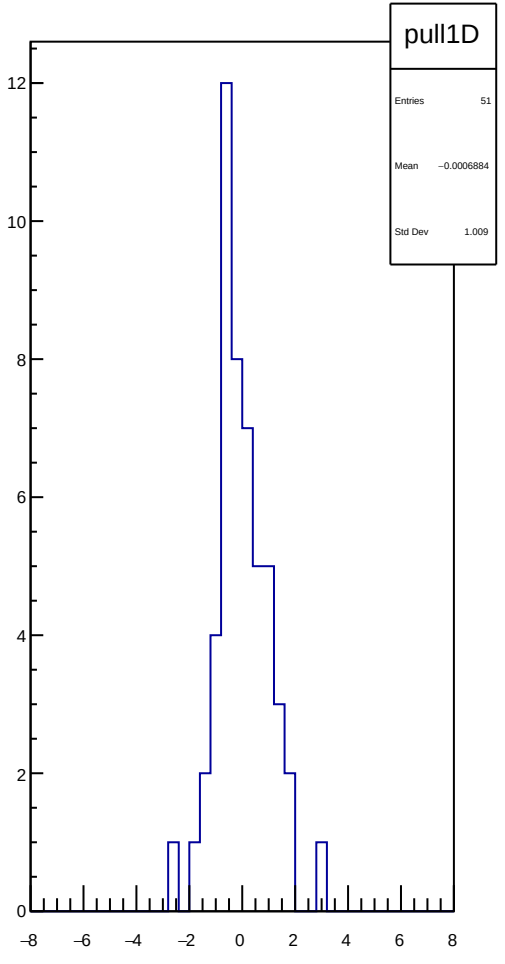

asym_atr_avg_rms vs run
χ² / ndf 5201 / 50
p0 2906 ± 2.936
3400
3200
3000
2800
2600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

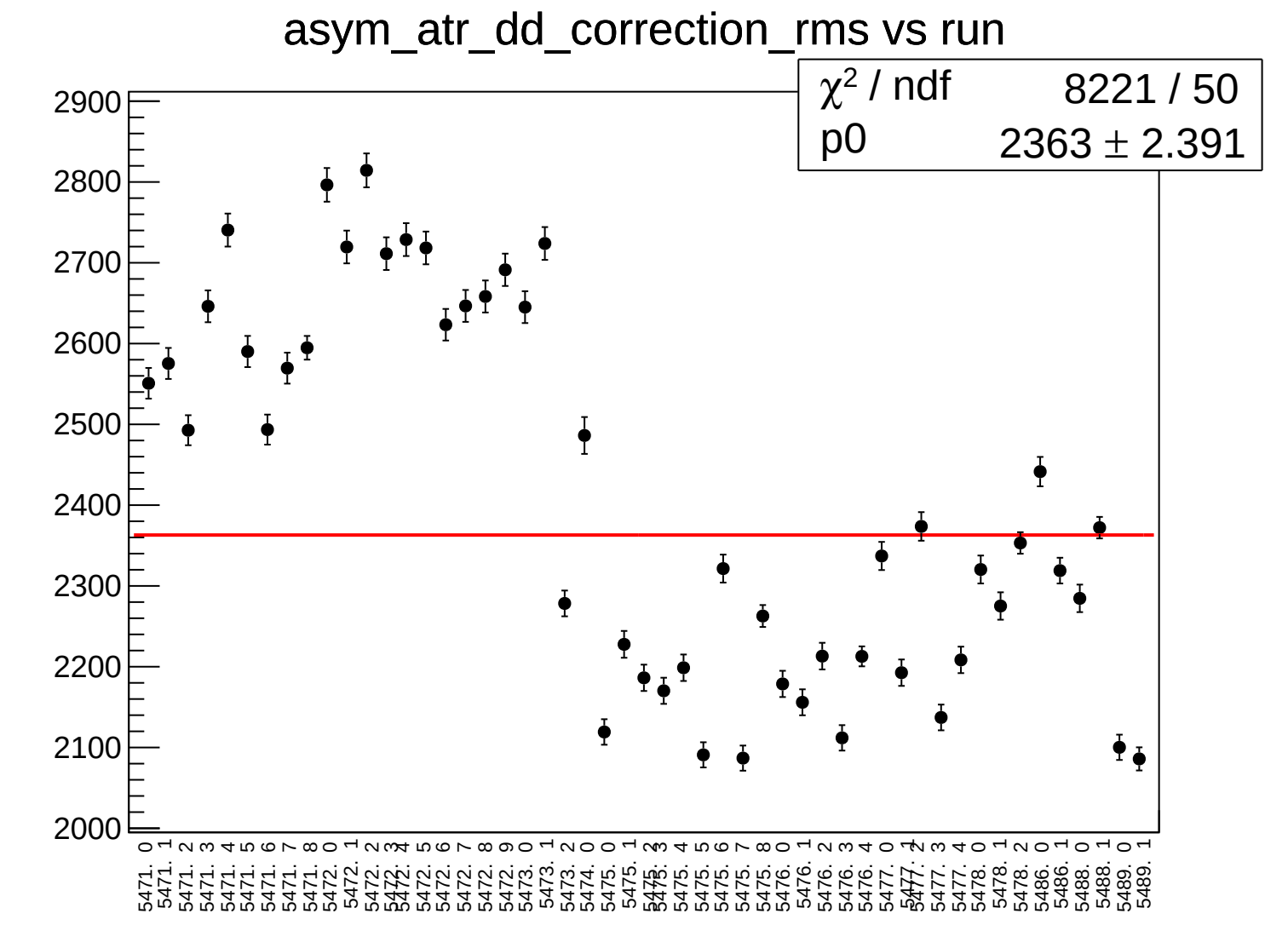

dit_asym_atr_dd_mean vs run
χ² / ndf 41.58 / 50
p0 836.8 ± 2334
40000
20000
0
−20000
−40000
pull
Entries 51
Mean −117.7
Std Dev 134.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

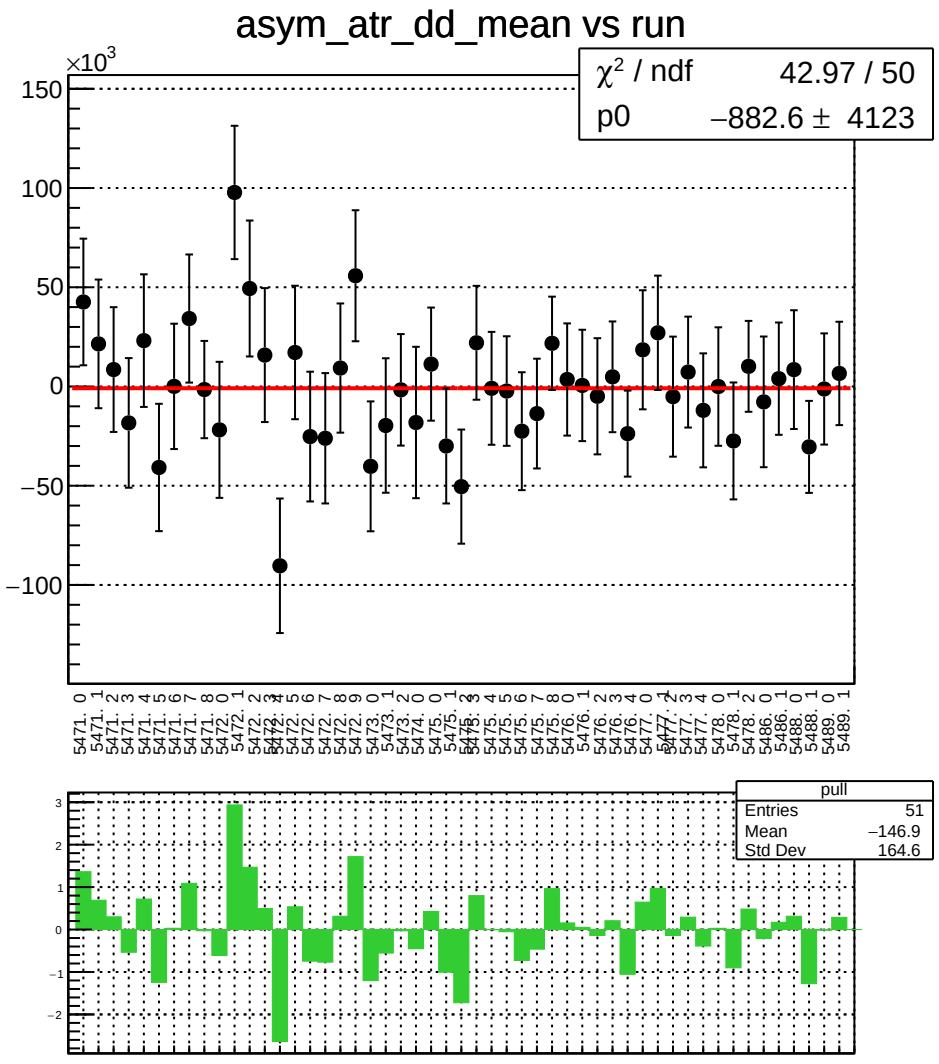

pull1D
Entries 51
Mean 0.01262
Std Dev 0.9028
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

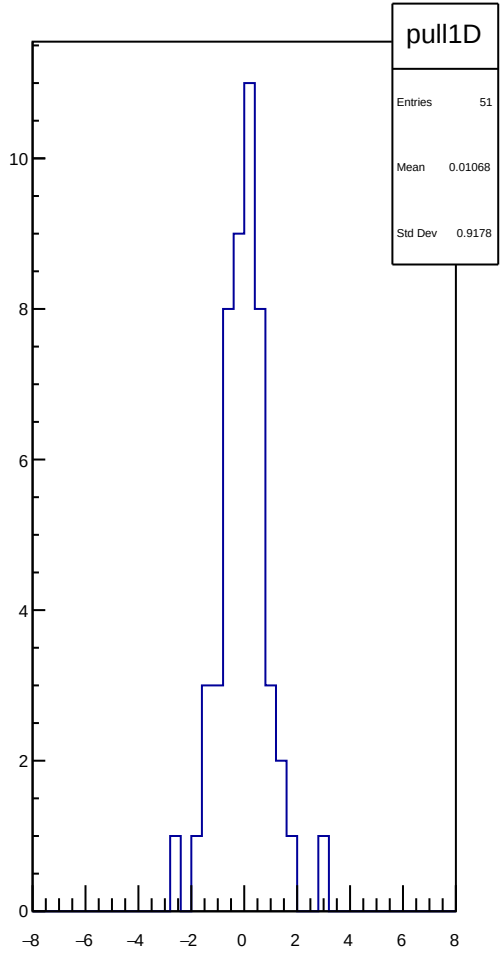

dit_asym_atr_dd_rms vs run
χ² / ndf 245.1 / 50
p0 1638 ± 1.651
1800
1750
1700
1650
1600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

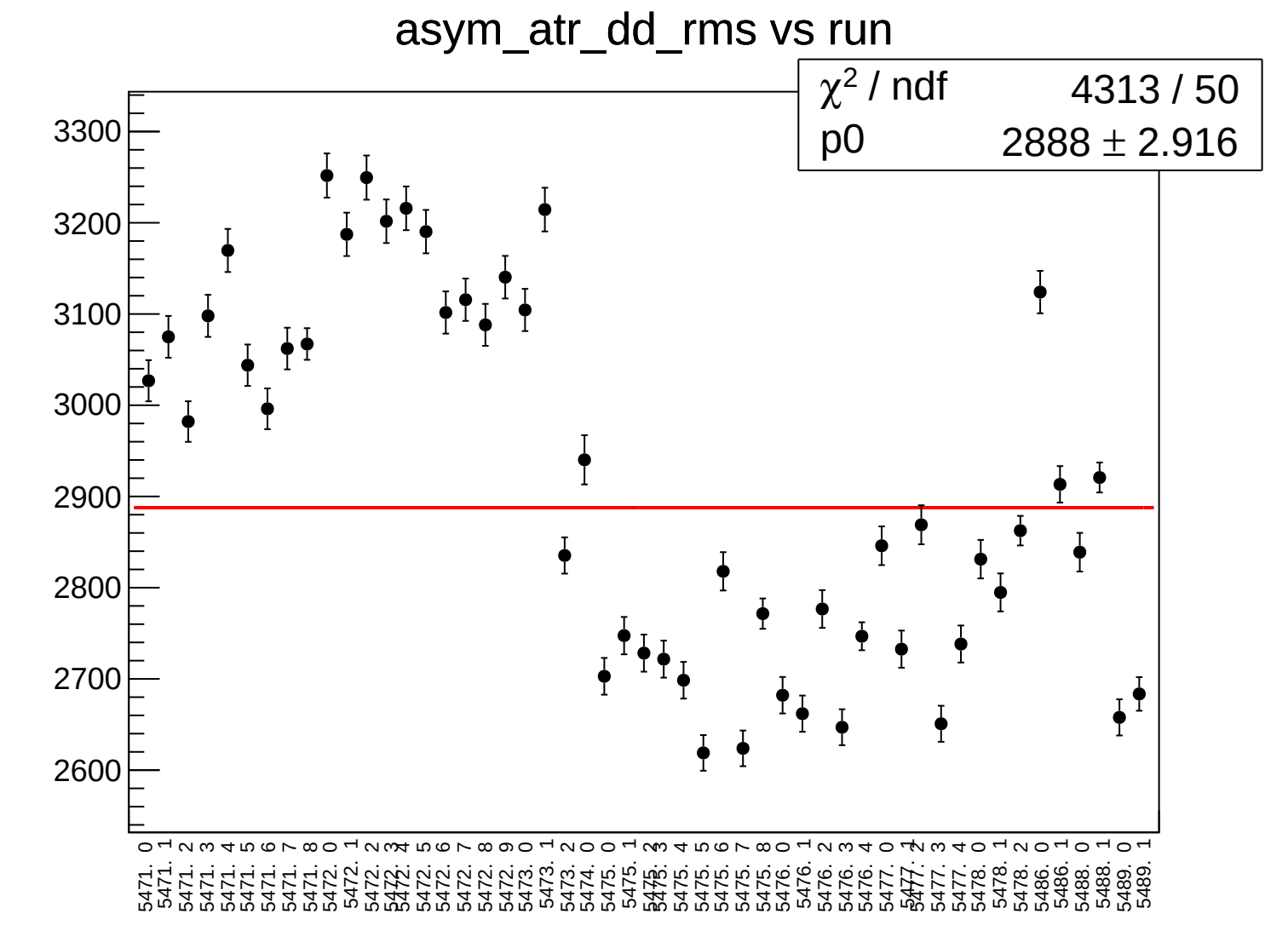

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 51.9 / 50
p0 1567 ± 3381
100
50
0
−50
−100
pull
Entries 51
Mean −1449
Std Dev 1467

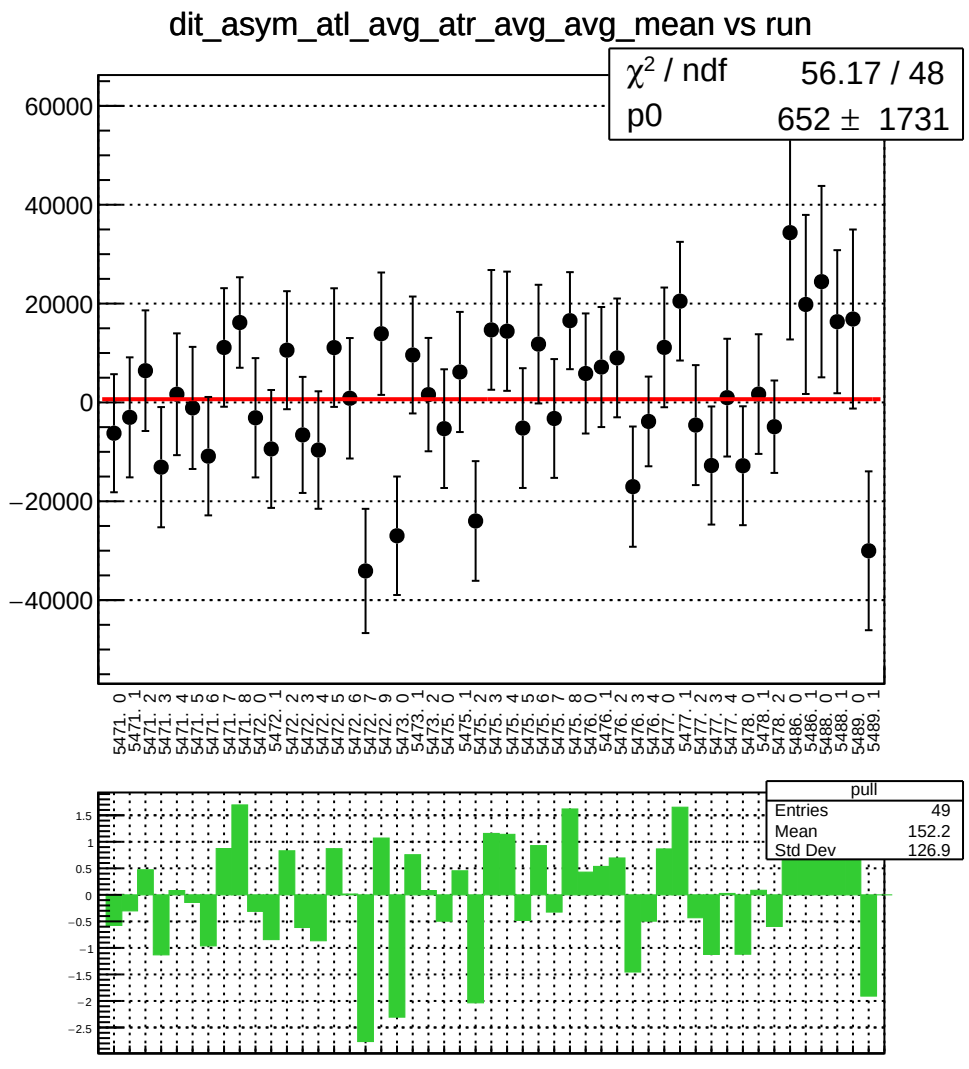

pull1D
Entries 51
Mean −0.0006884
Std Dev 1.009

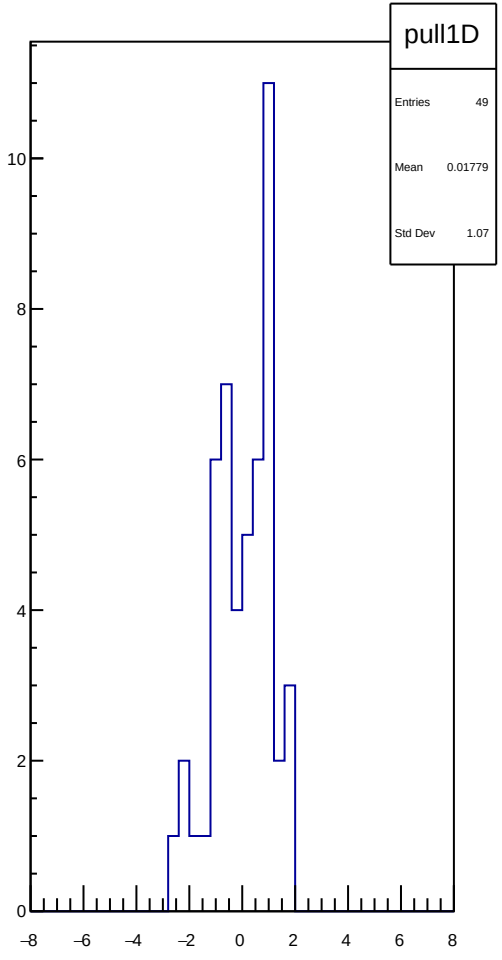

asym_atr_dd_correction_rms vs run
χ² / ndf 8221 / 50
p0 2363 ± 2.391
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

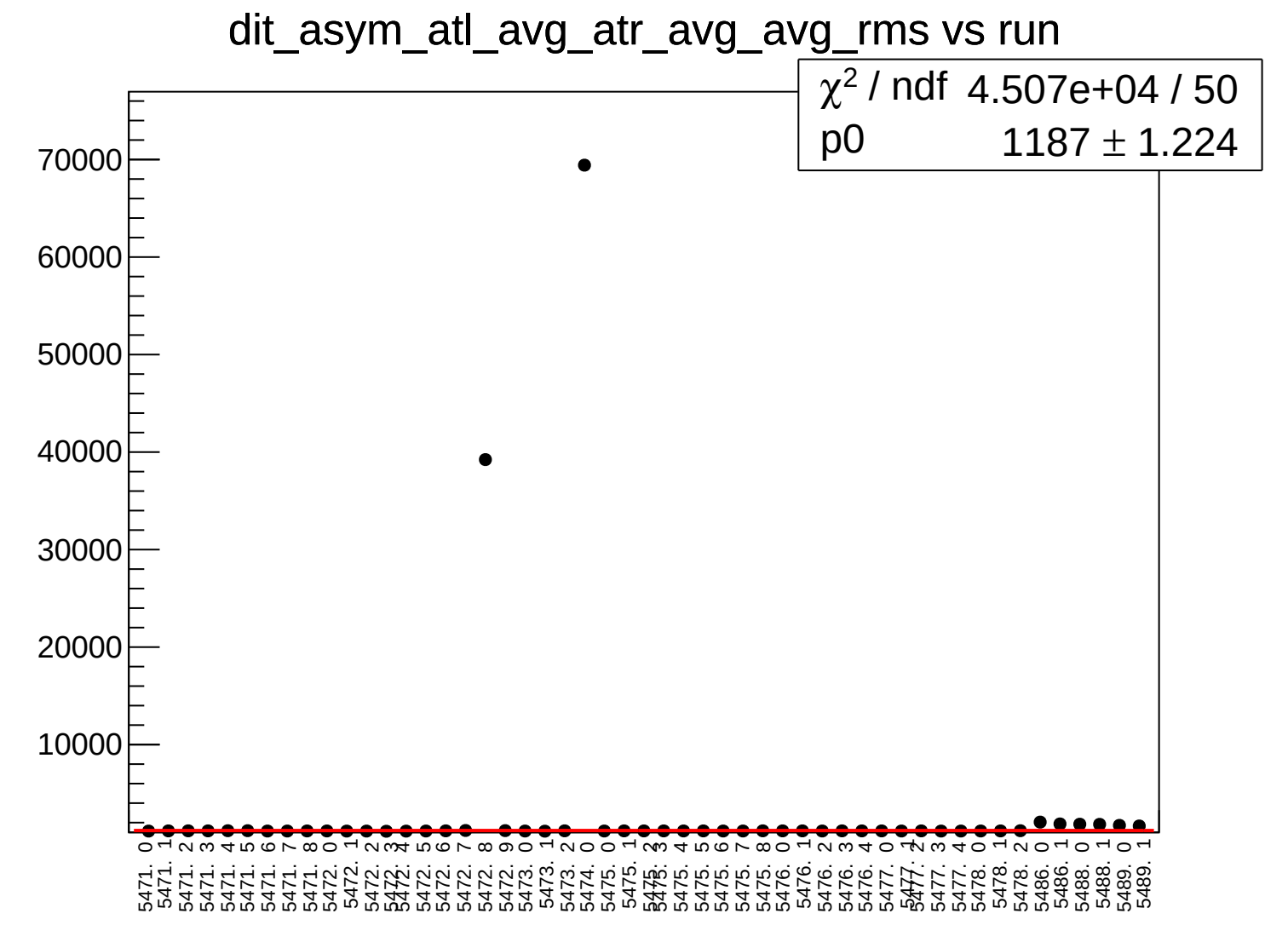

asym_atr_dd_mean vs run
×10^3
χ² / ndf 42.97 / 50
p0 −882.6 ± 4123
150
100
50
0
−50
−100
pull
Entries 51
Mean −146.9
Std Dev 164.6
3
2
1
0
−1
−2

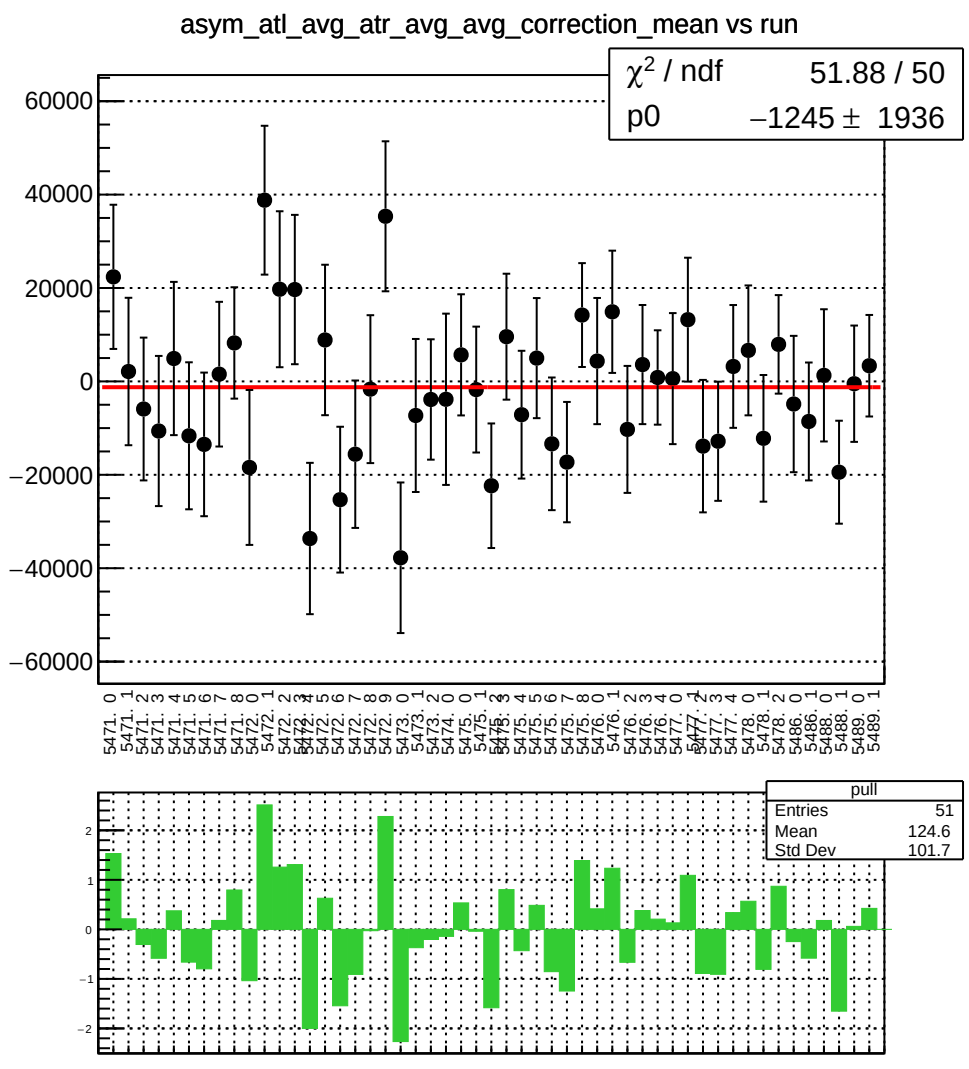

pull1D
Entries 51
Mean 0.01068
Std Dev 0.9178
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

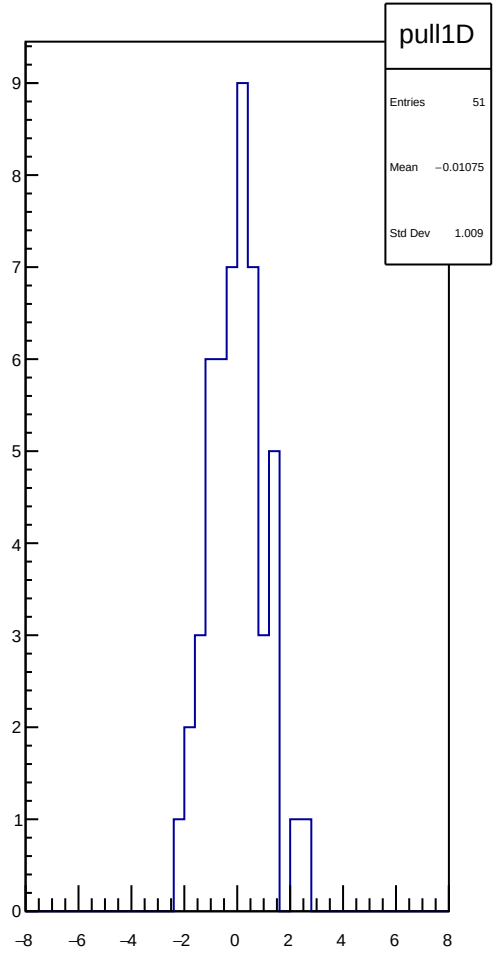

asym_atr_dd_rms vs run
χ² / ndf 4313 / 50
p0 2888 ± 2.916
3300
3200
3100
3000
2900
2800
2700
2600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

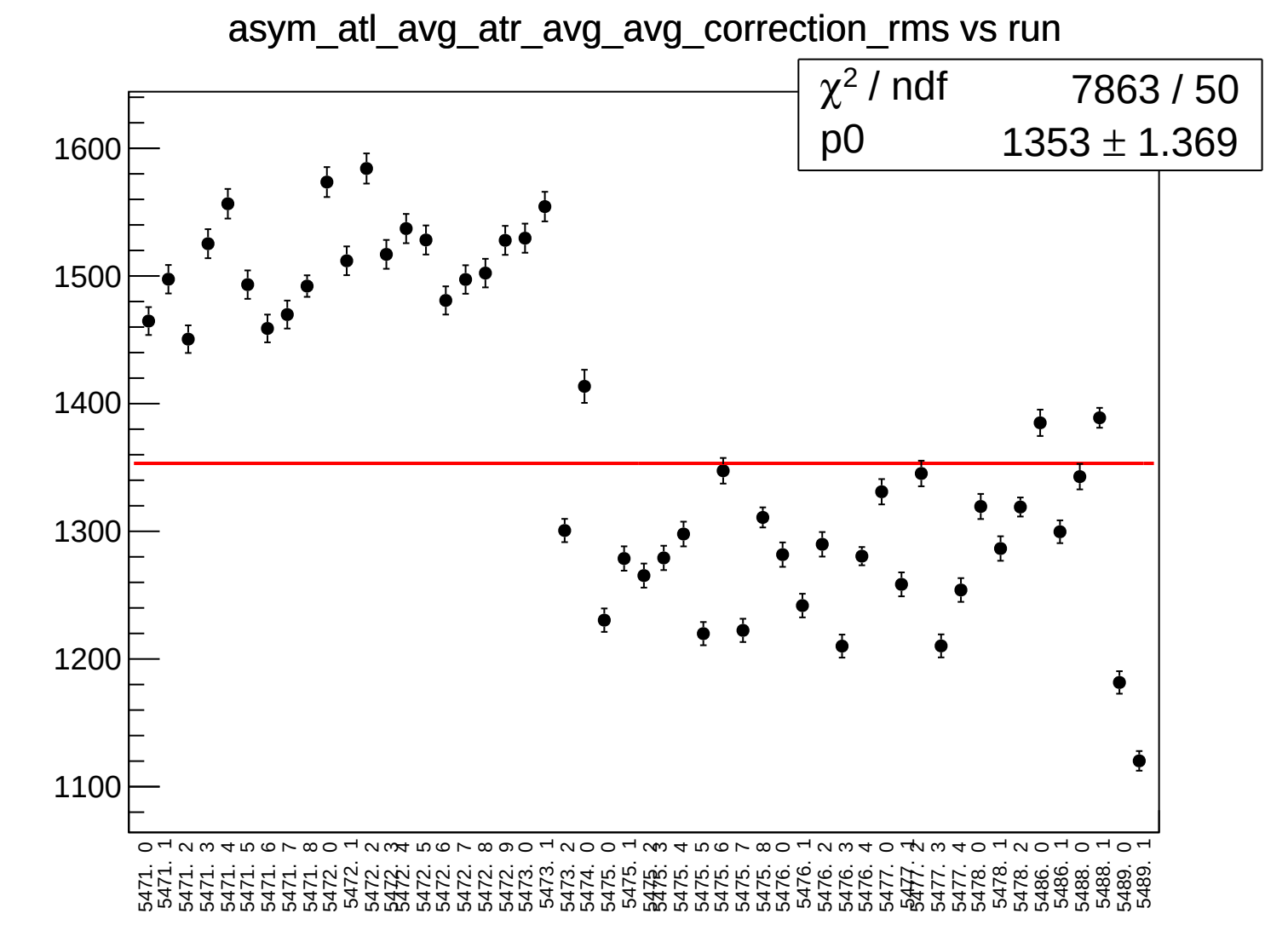

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 56.17 / 48
p0 652 ± 1731
60000
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 152.2
Std Dev 126.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

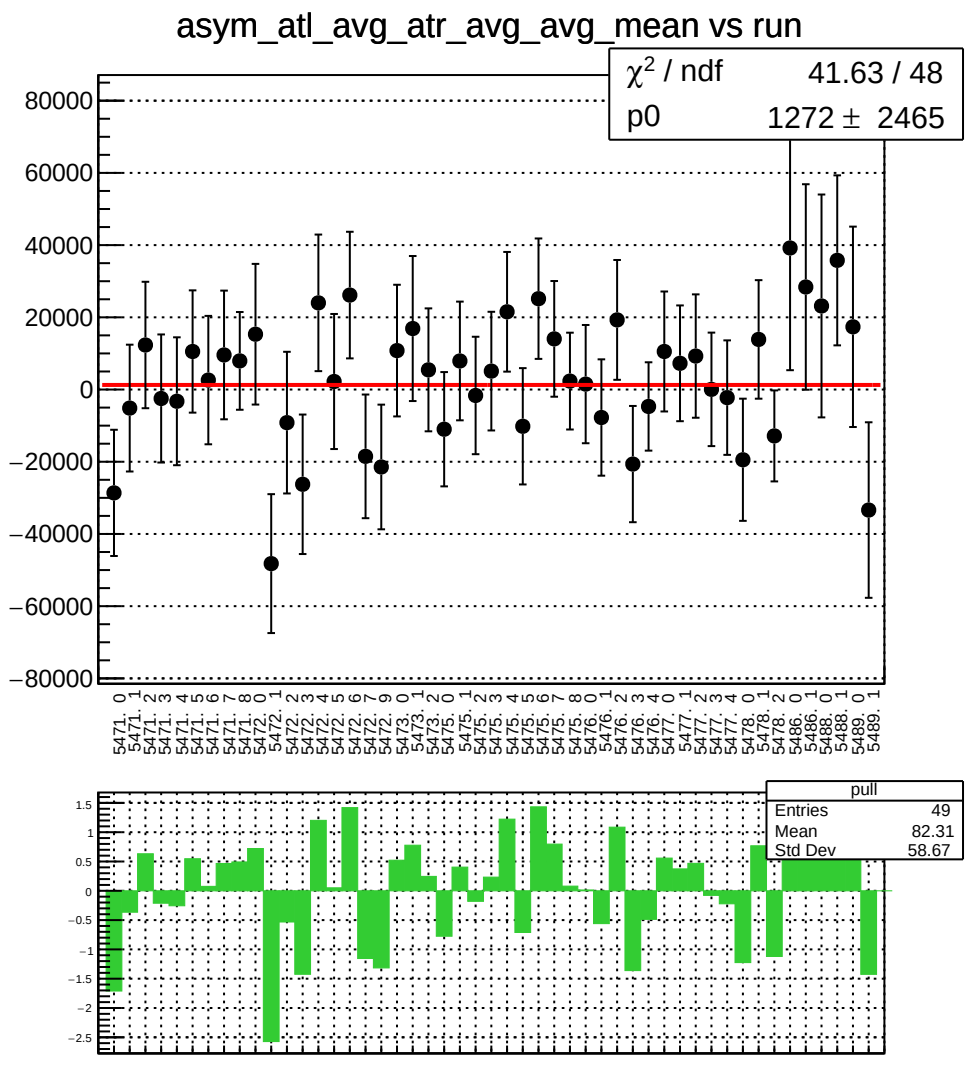

pull1D
Entries 49
Mean 0.01779
Std Dev 1.07
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

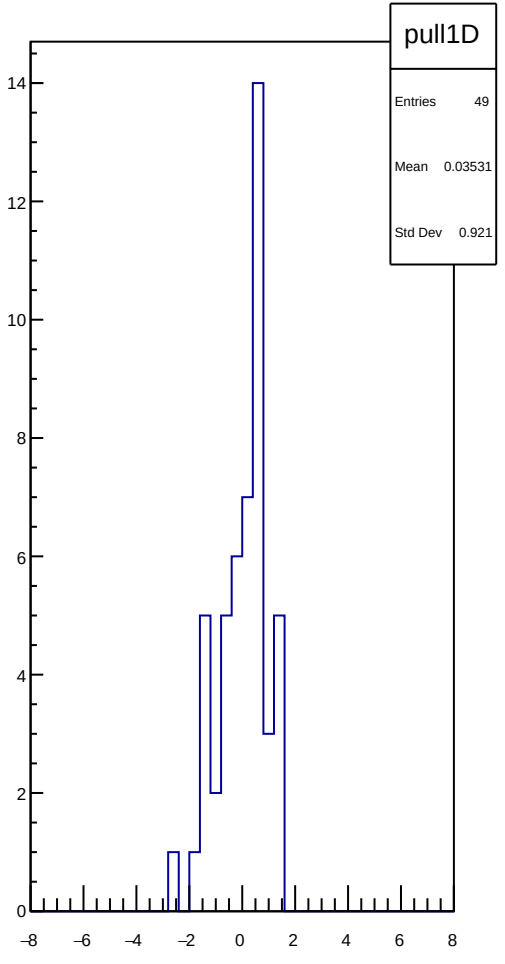

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4.507e+04 / 50
p0 1187 ± 1.224
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

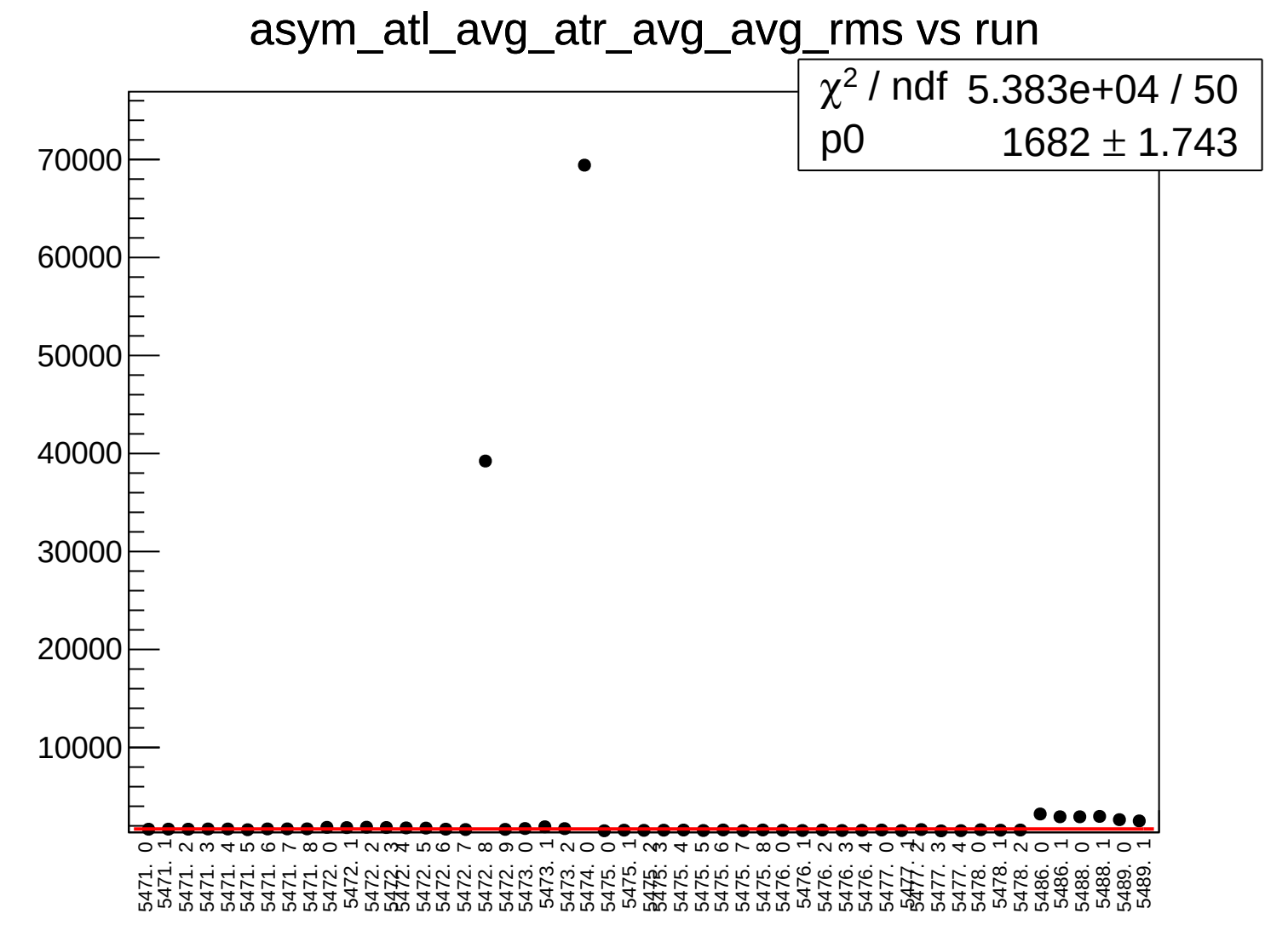

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 51.88 / 50
p0 −1245 ± 1936
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 124.6
Std Dev 101.7
2
1
0
−1
−2

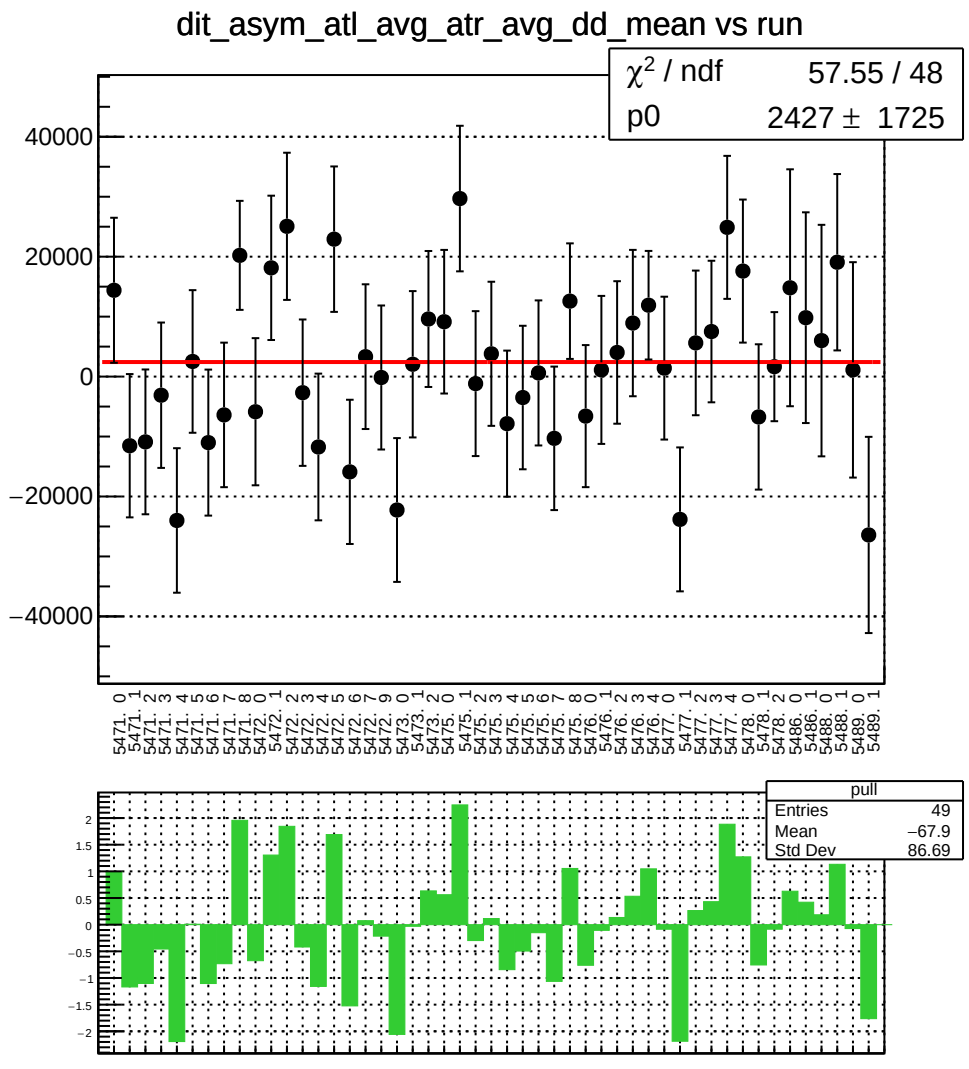

pull1D
Entries 51
Mean −0.01075
Std Dev 1.009
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

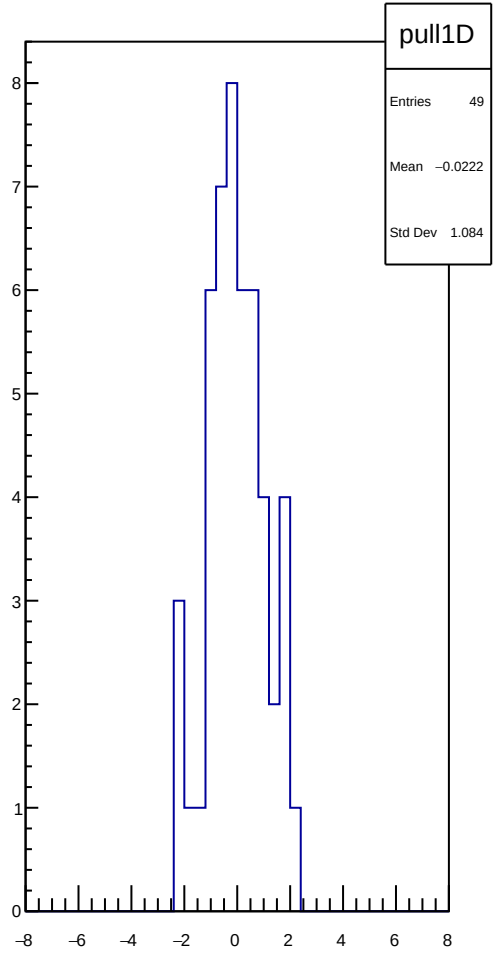

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 7863 / 50
p0 1353 ± 1.369
1600
1500
1400
1300
1200
1100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

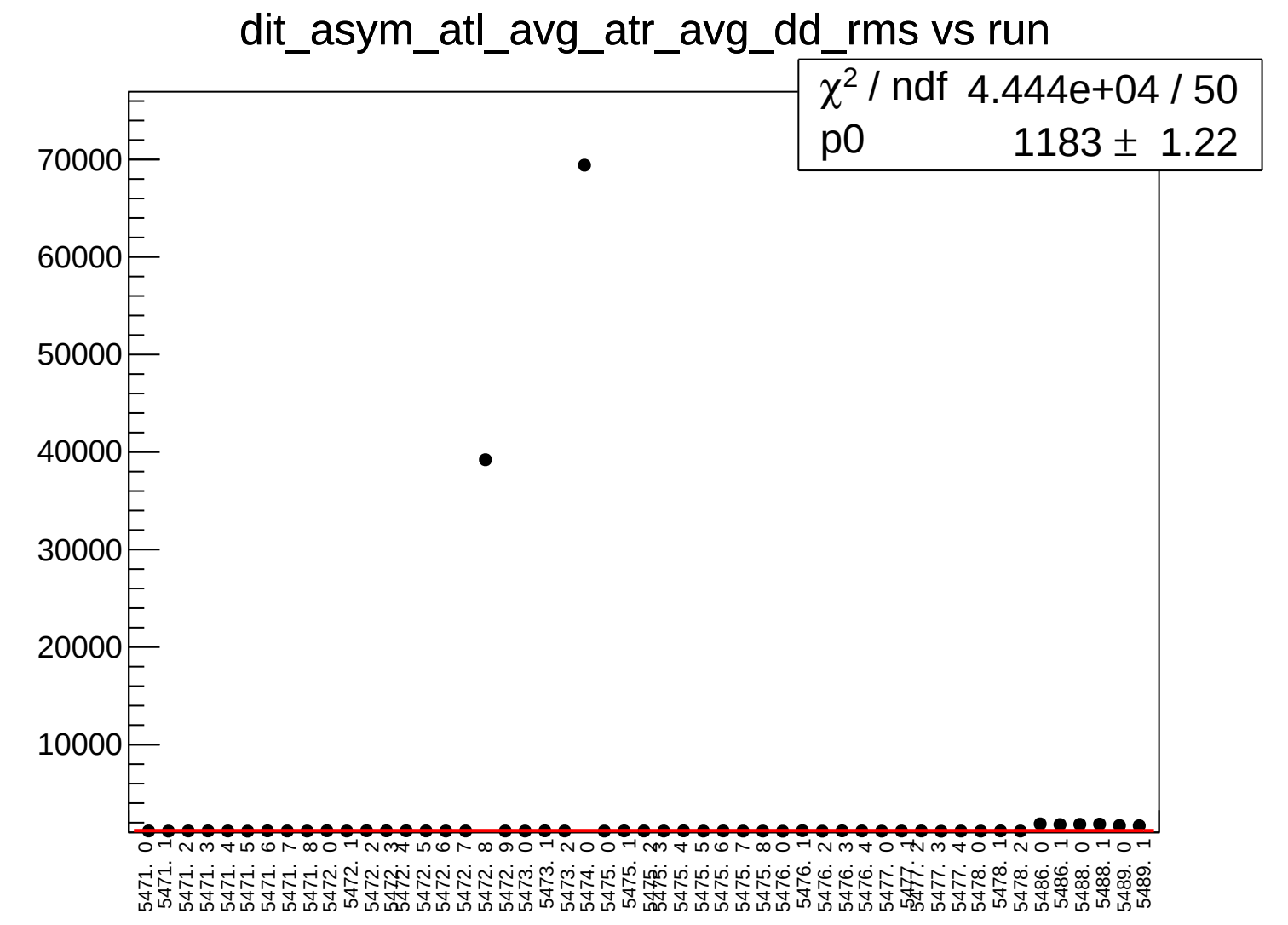

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 41.63 / 48
p0 1272 ± 2465
pull
Entries 49
Mean 82.31
Std Dev 58.67

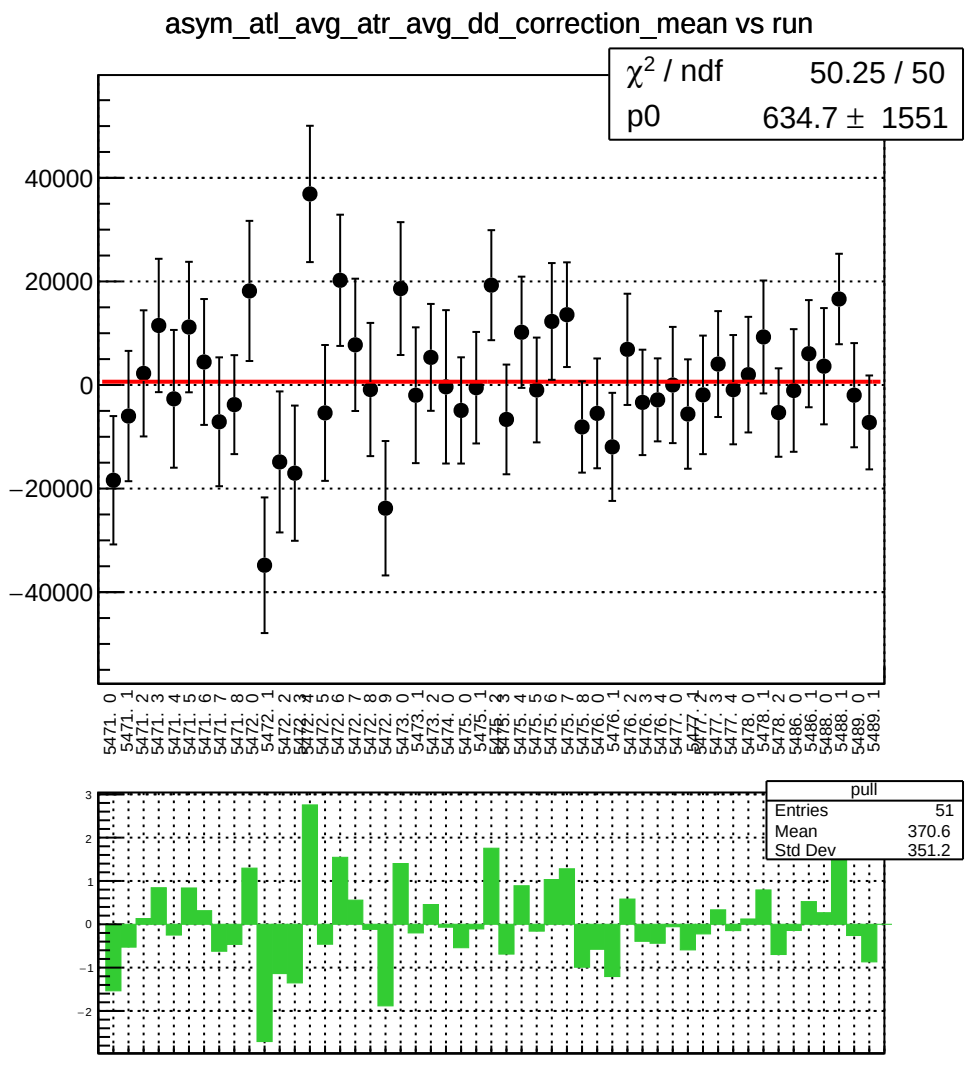

pull1D
Entries 49
Mean 0.03531
Std Dev 0.921

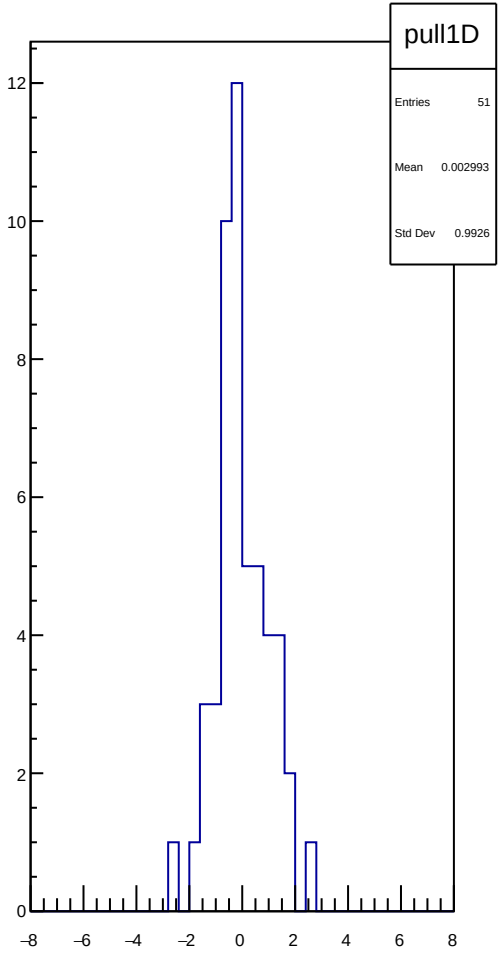

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5.383e+04 / 50
p0 1682 ± 1.743
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

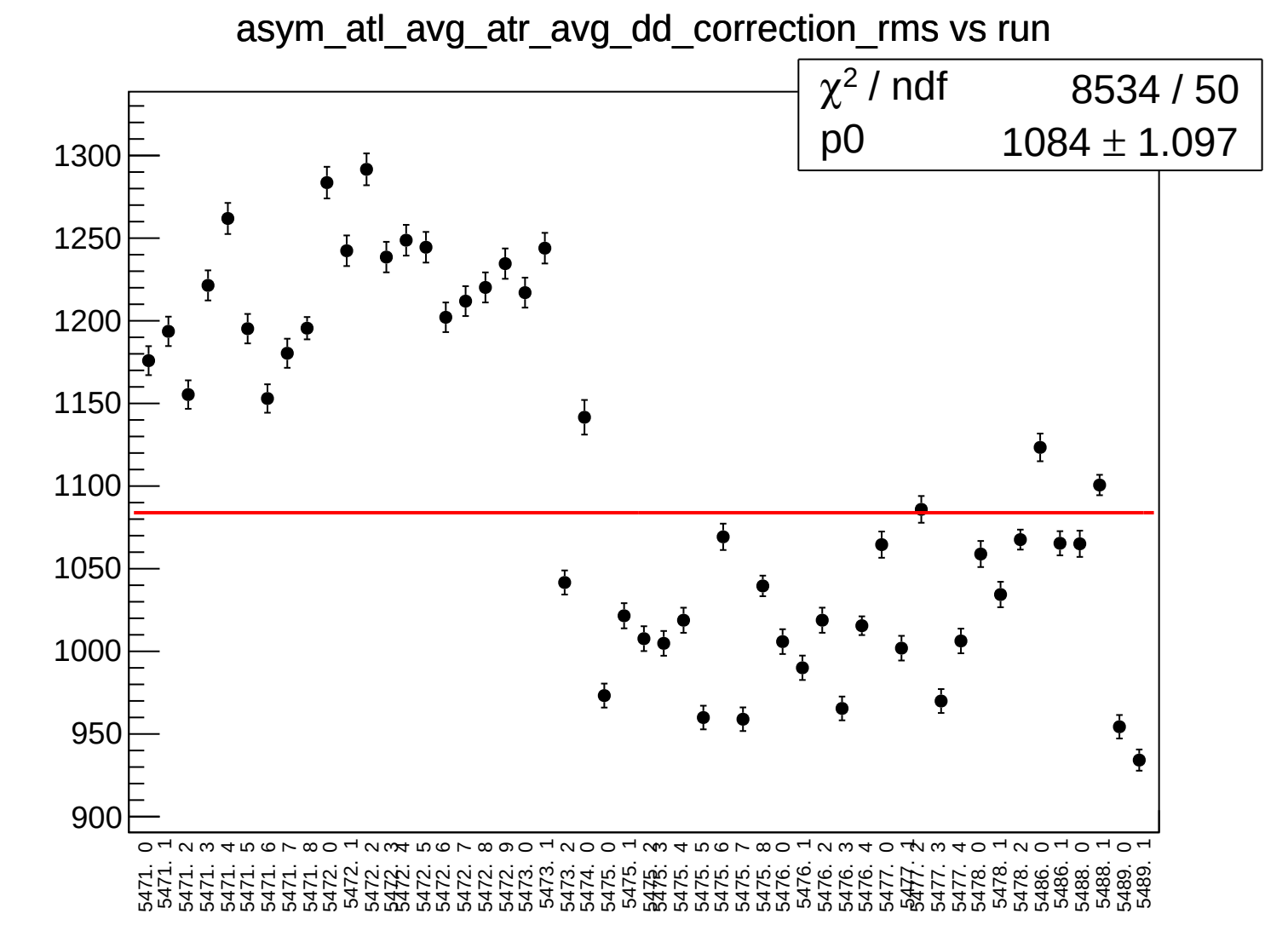

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 57.55 / 48
p0 2427 ± 1725
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −67.9
Std Dev 86.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

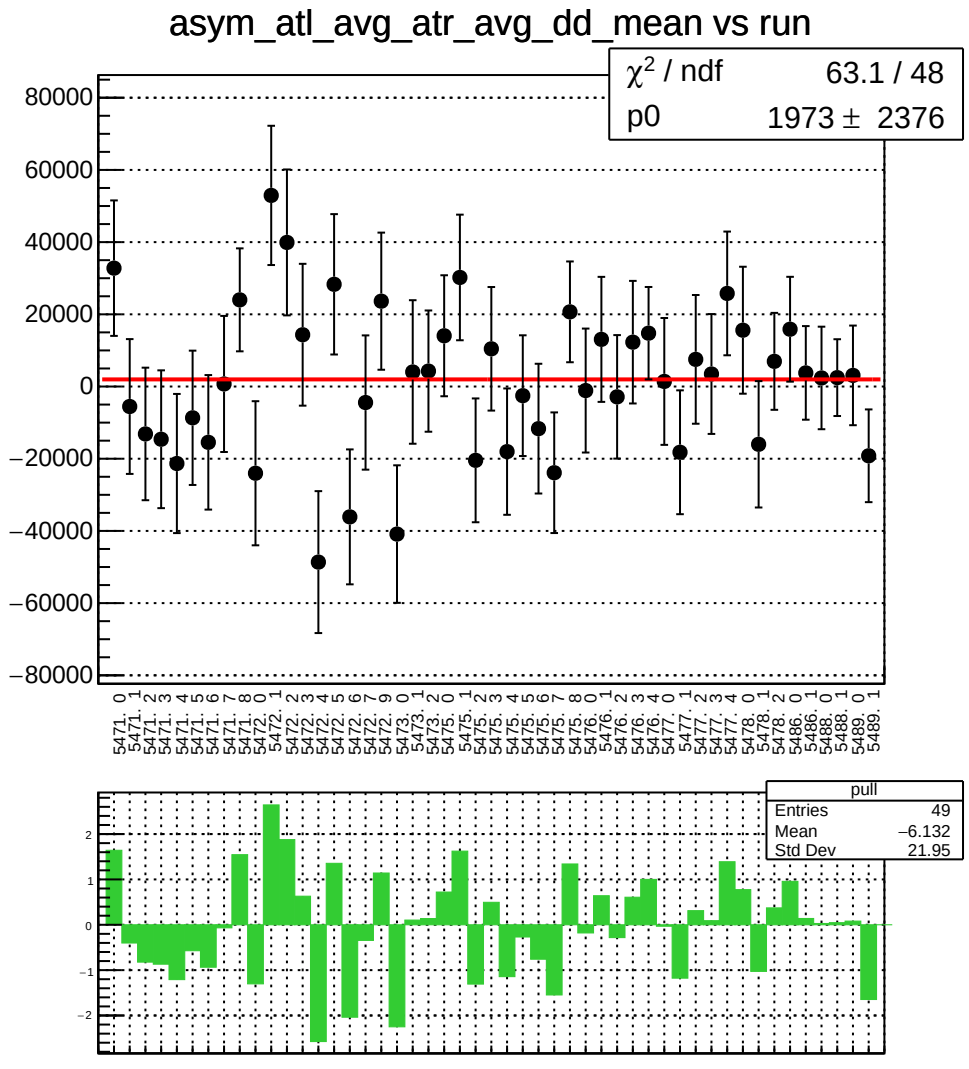

pull1D
Entries 49
Mean −0.0222
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

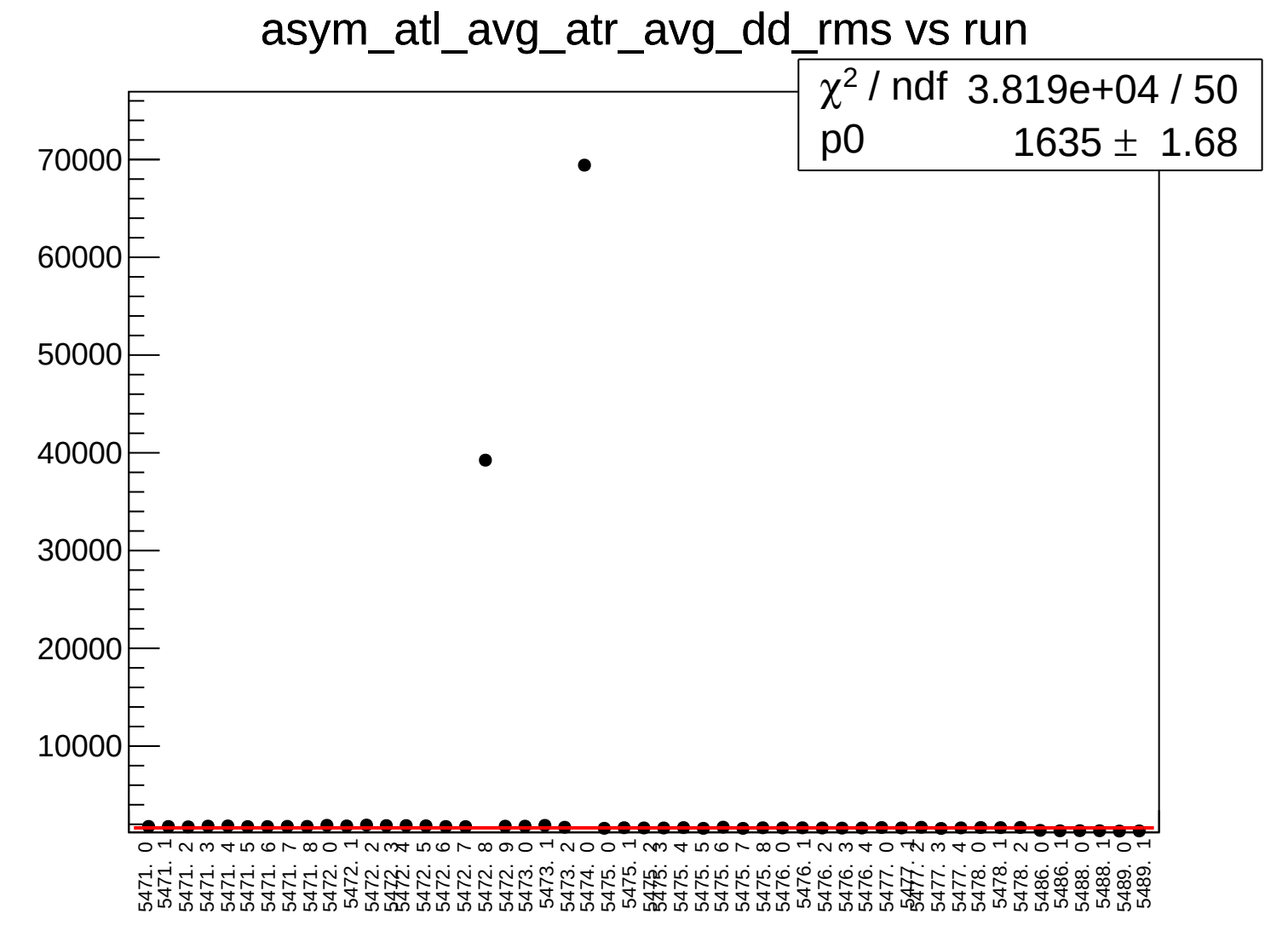

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 4.444e+04 / 50
p0 1183 ± 1.22
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

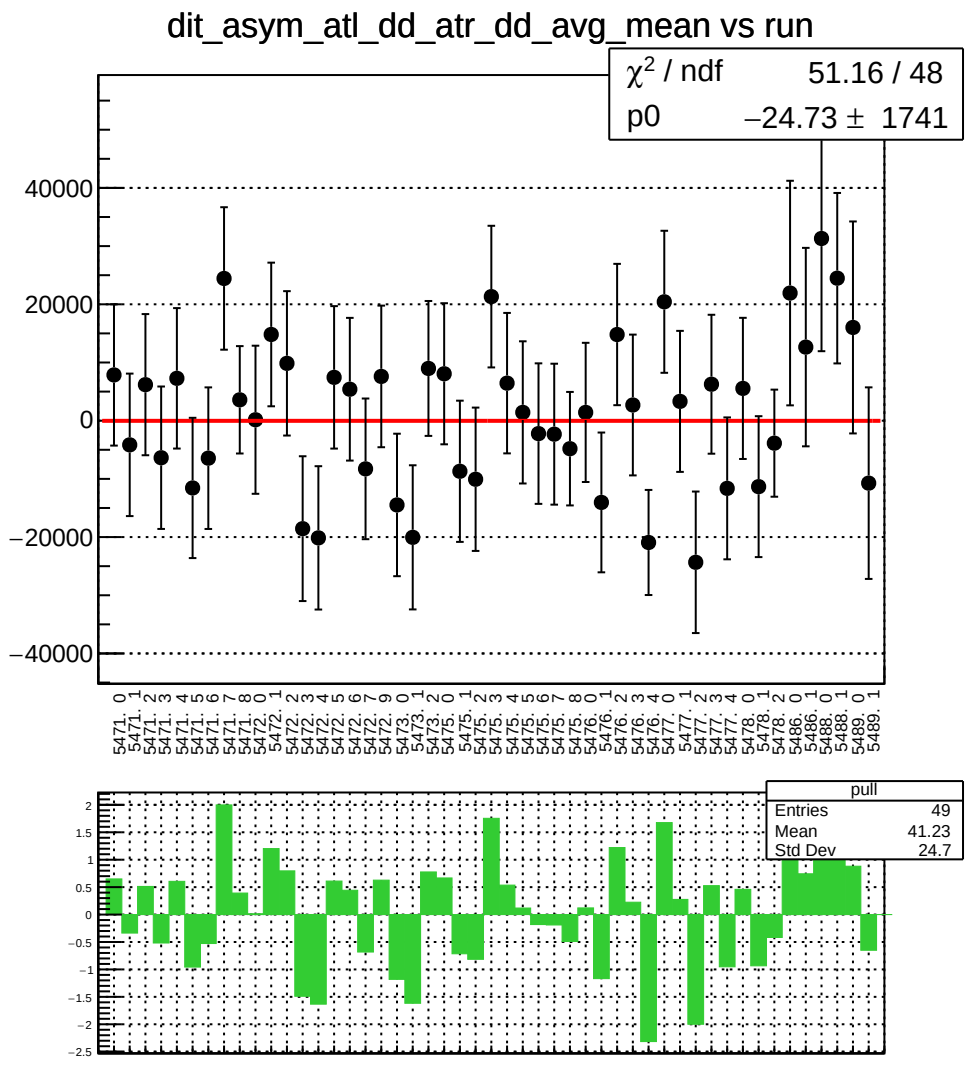

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 50.25 / 50
p0 634.7 ± 1551
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 370.6
Std Dev 351.2
3
2
1
0
−1
−2

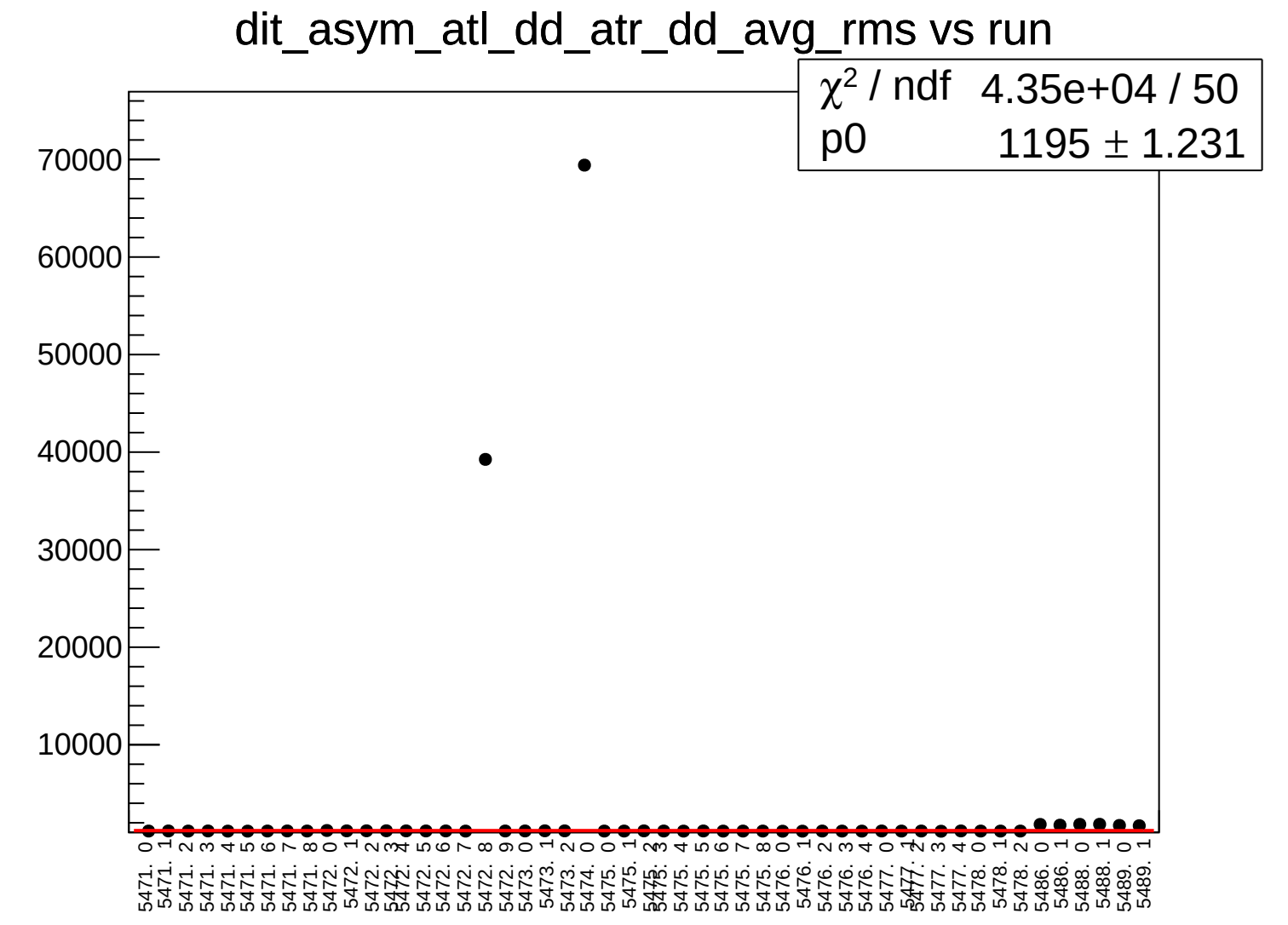

pull1D
Entries 51
Mean 0.002993
Std Dev 0.9926
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

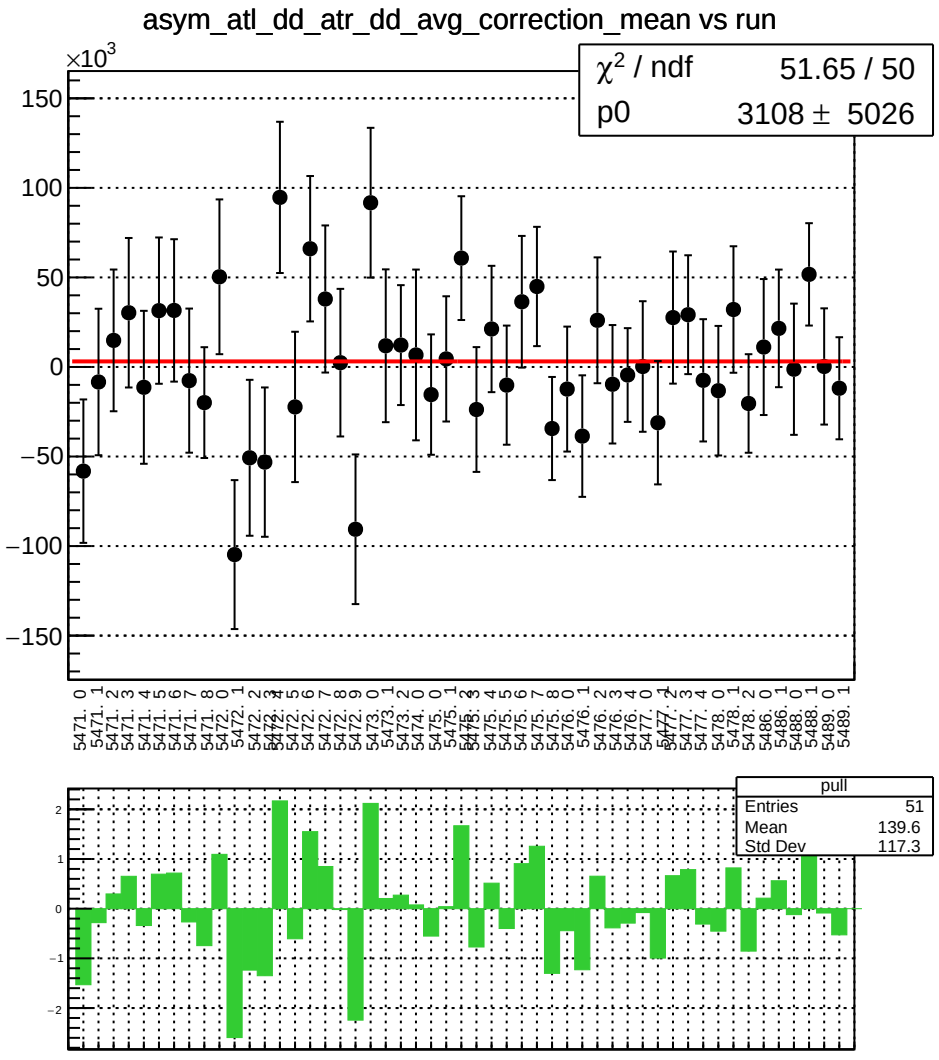

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 8534 / 50
p0 1084 ± 1.097
1300
1250
1200
1150
1100
1050
1000
950
900
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

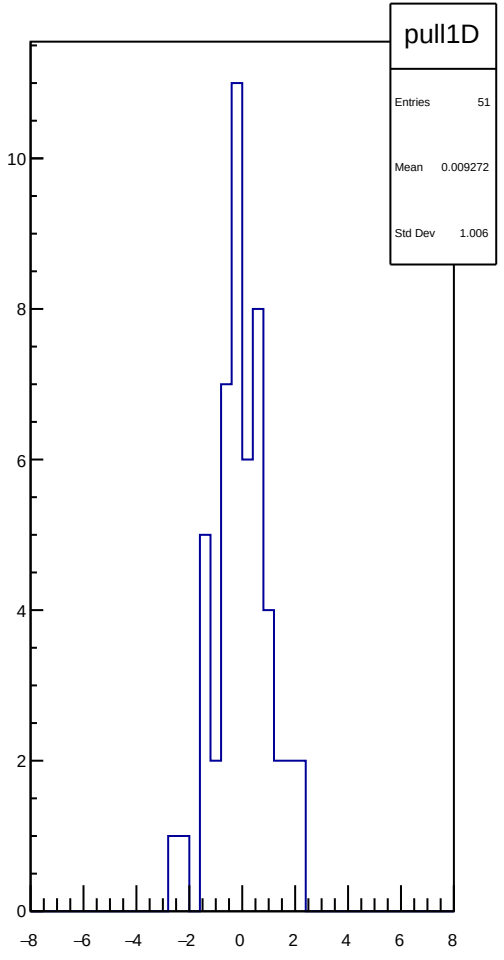

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 63.1 / 48
p0 1973 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean −6.132
Std Dev 21.95
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.02175
Std Dev 1.135
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

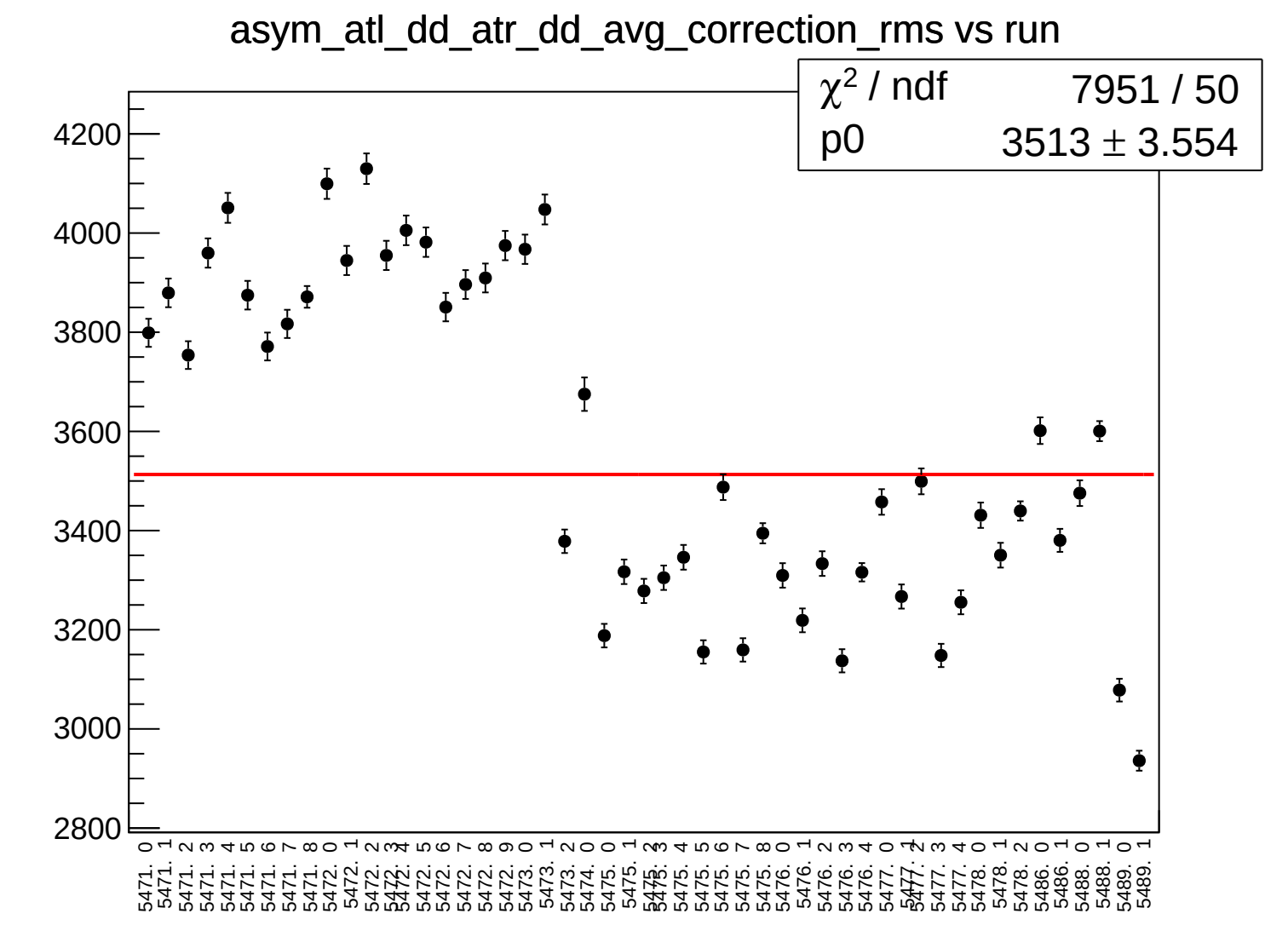

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 3.819e+04 / 50
p0 1635 ± 1.68
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

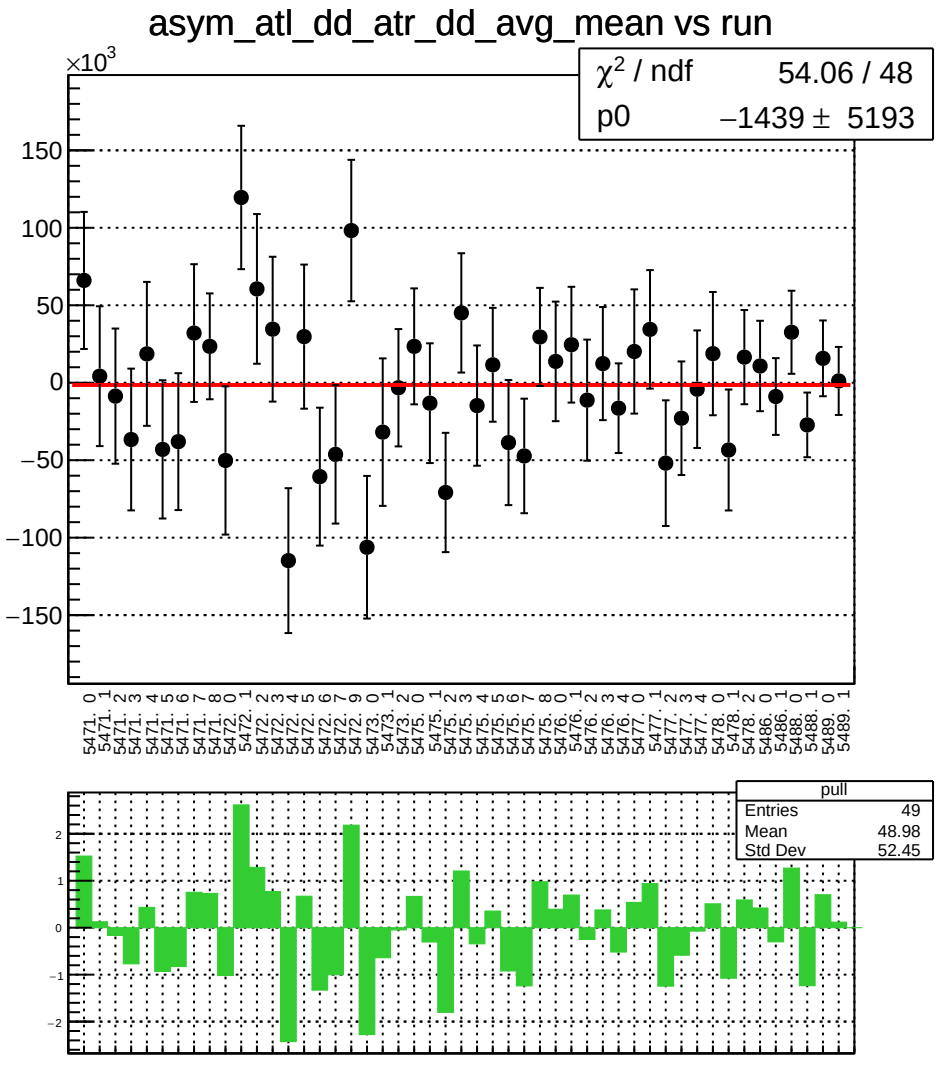

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 51.16 / 48
p0 −24.73 ± 1741
40000
20000
0
−20000
−40000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 41.23
Std Dev 24.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 49
Mean 0.05095
Std Dev 1.021
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

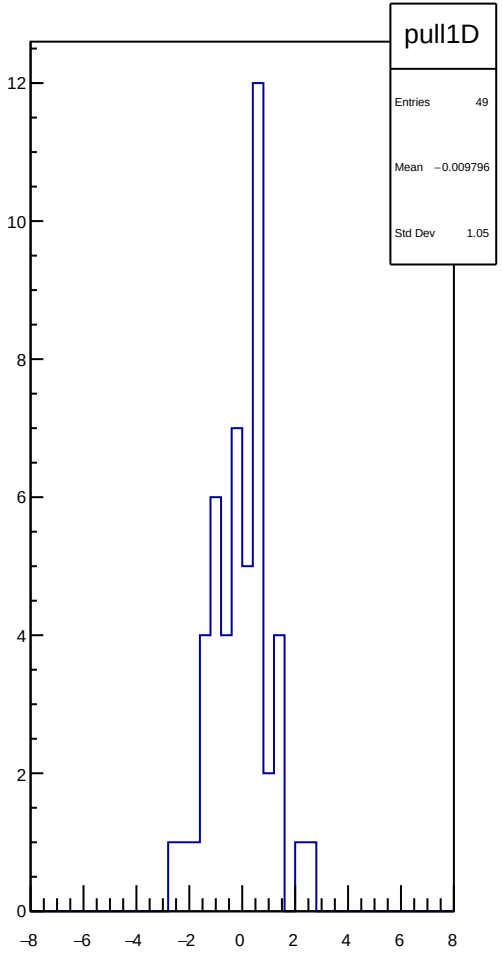

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4.35e+04 / 50
p0 1195 ± 1.231
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

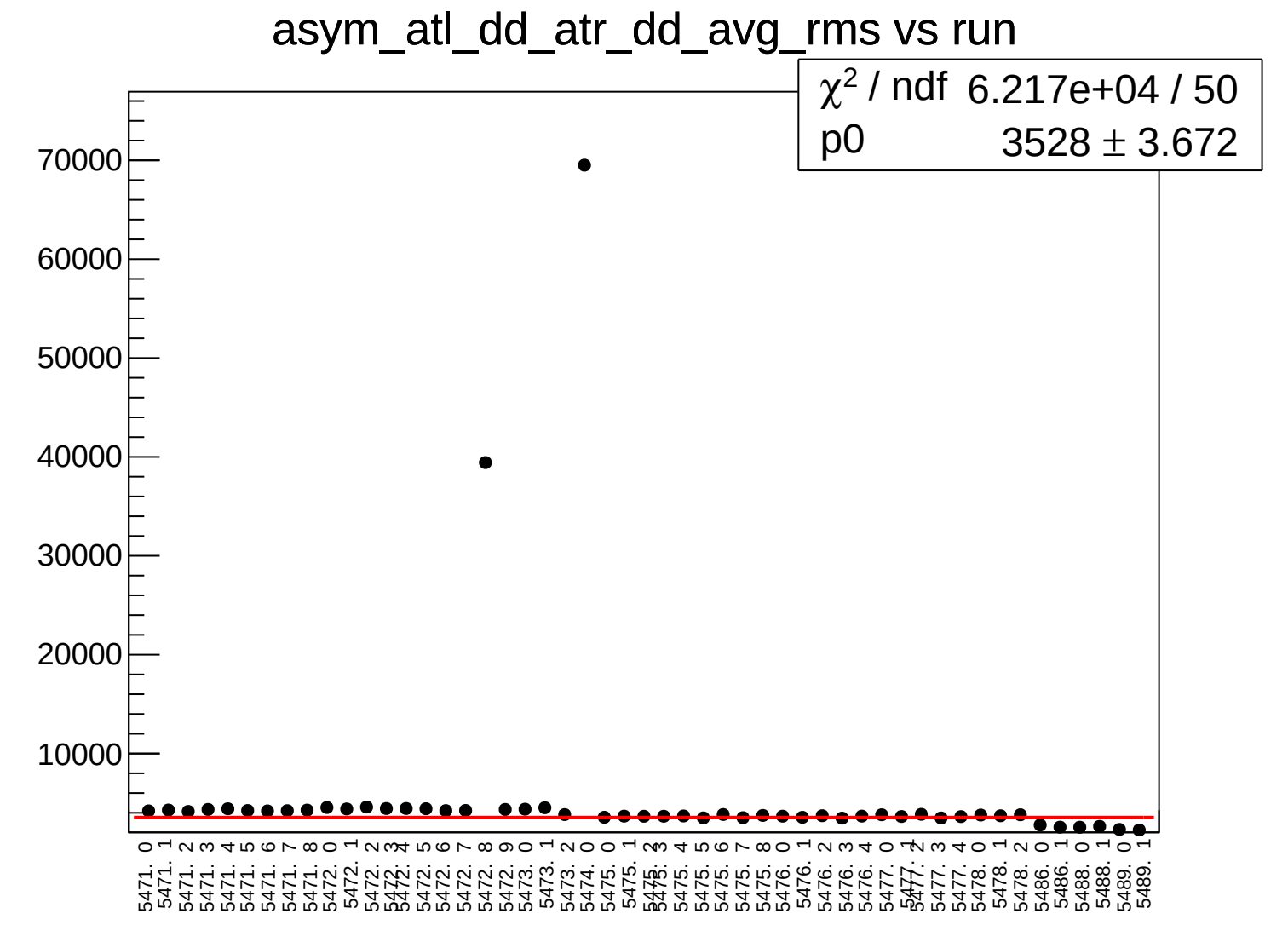

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 51.65 / 50
p0 3108 ± 5026
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 139.6
Std Dev 117.3
2
1
0
−1
−2

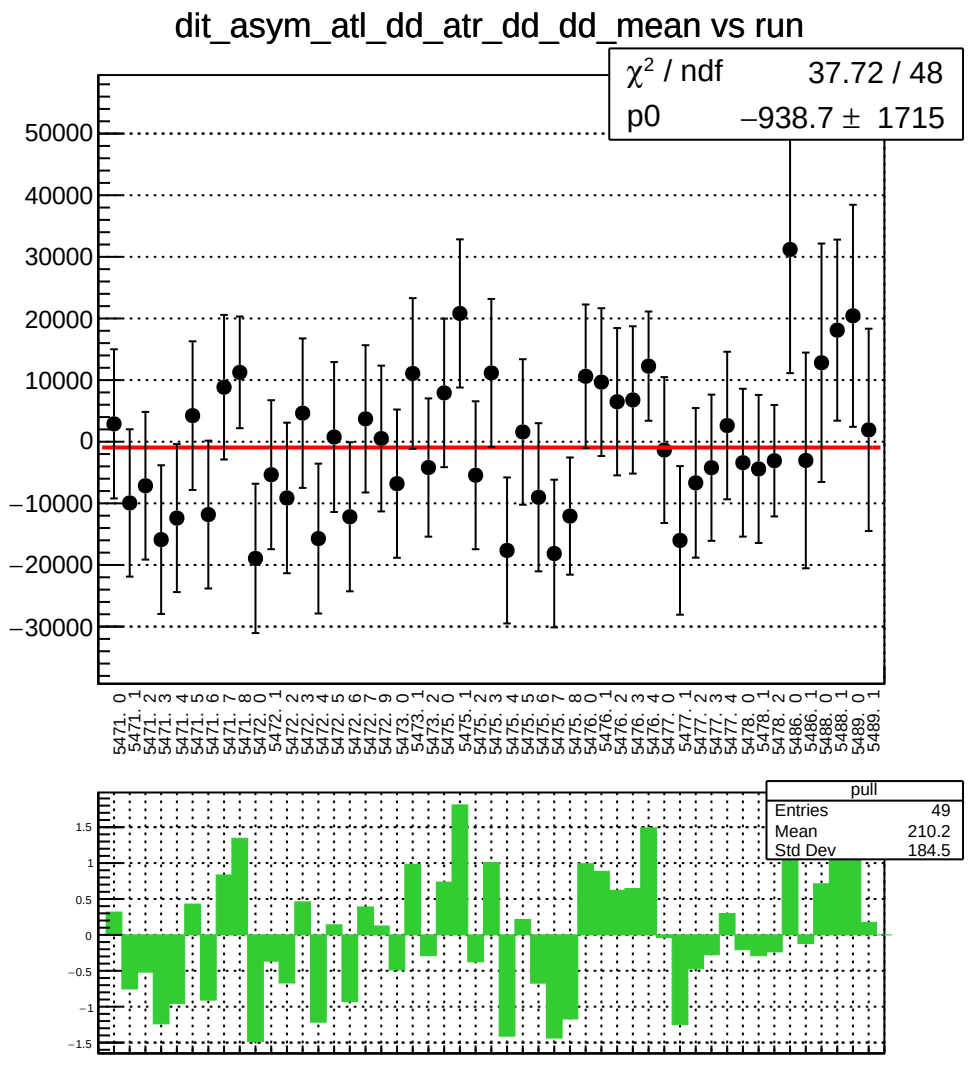

pull1D
Entries 51
Mean 0.009272
Std Dev 1.006
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

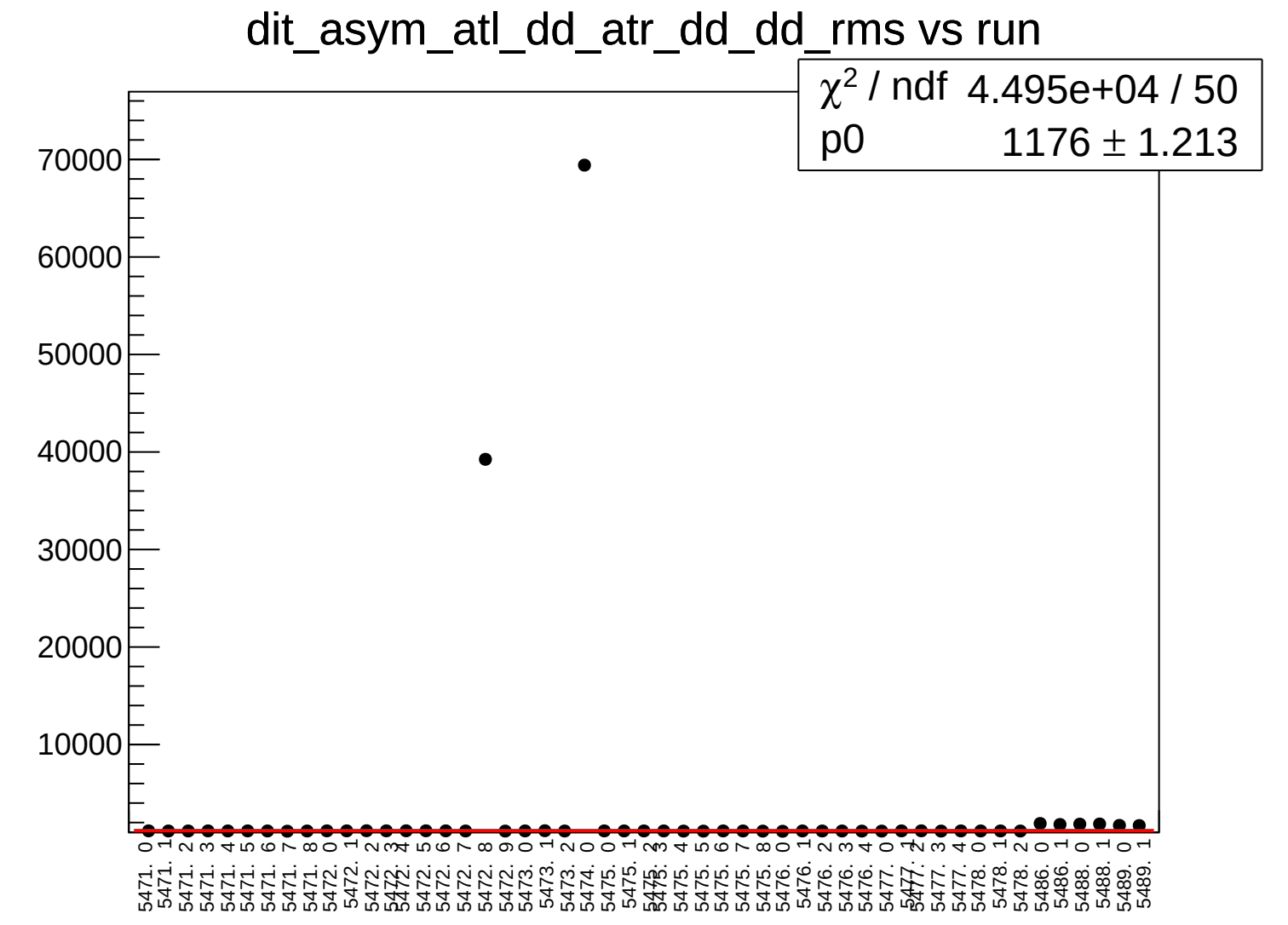

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 7951 / 50
p0 3513 ± 3.554
4200
4000
3800
3600
3400
3200
3000
2800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

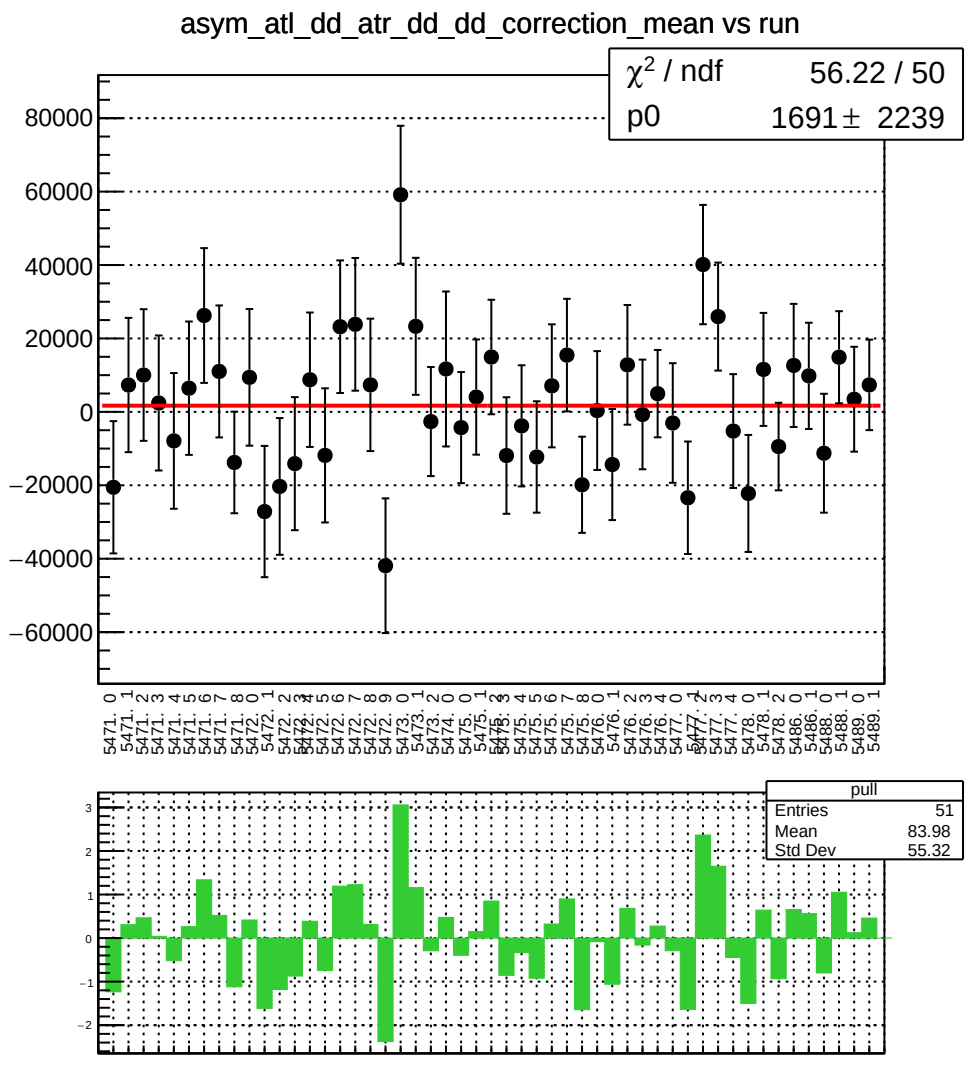

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 54.06 / 48
p0 −1439 ± 5193
150
100
50
0
−50
−100
−150
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 48.98
Std Dev 52.45
2
1
0
−1
−2

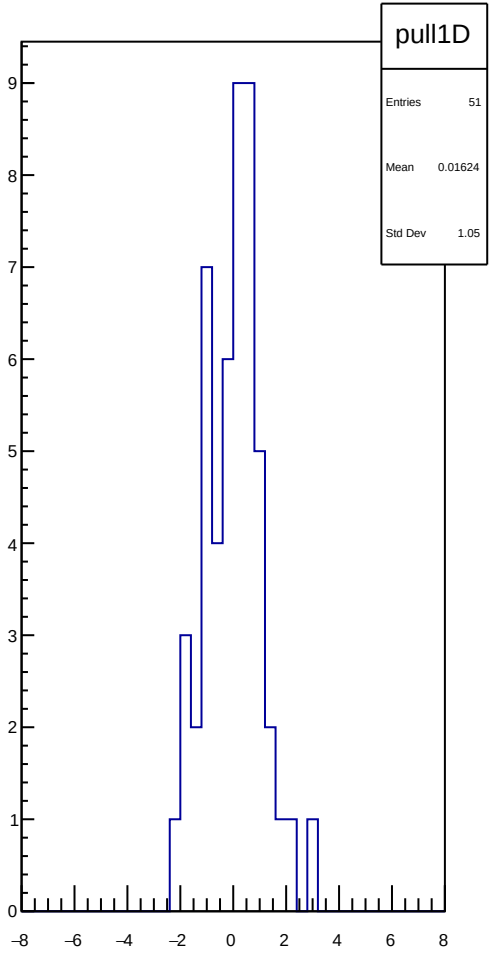

pull1D
Entries 49
Mean −0.009796
Std Dev 1.05
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

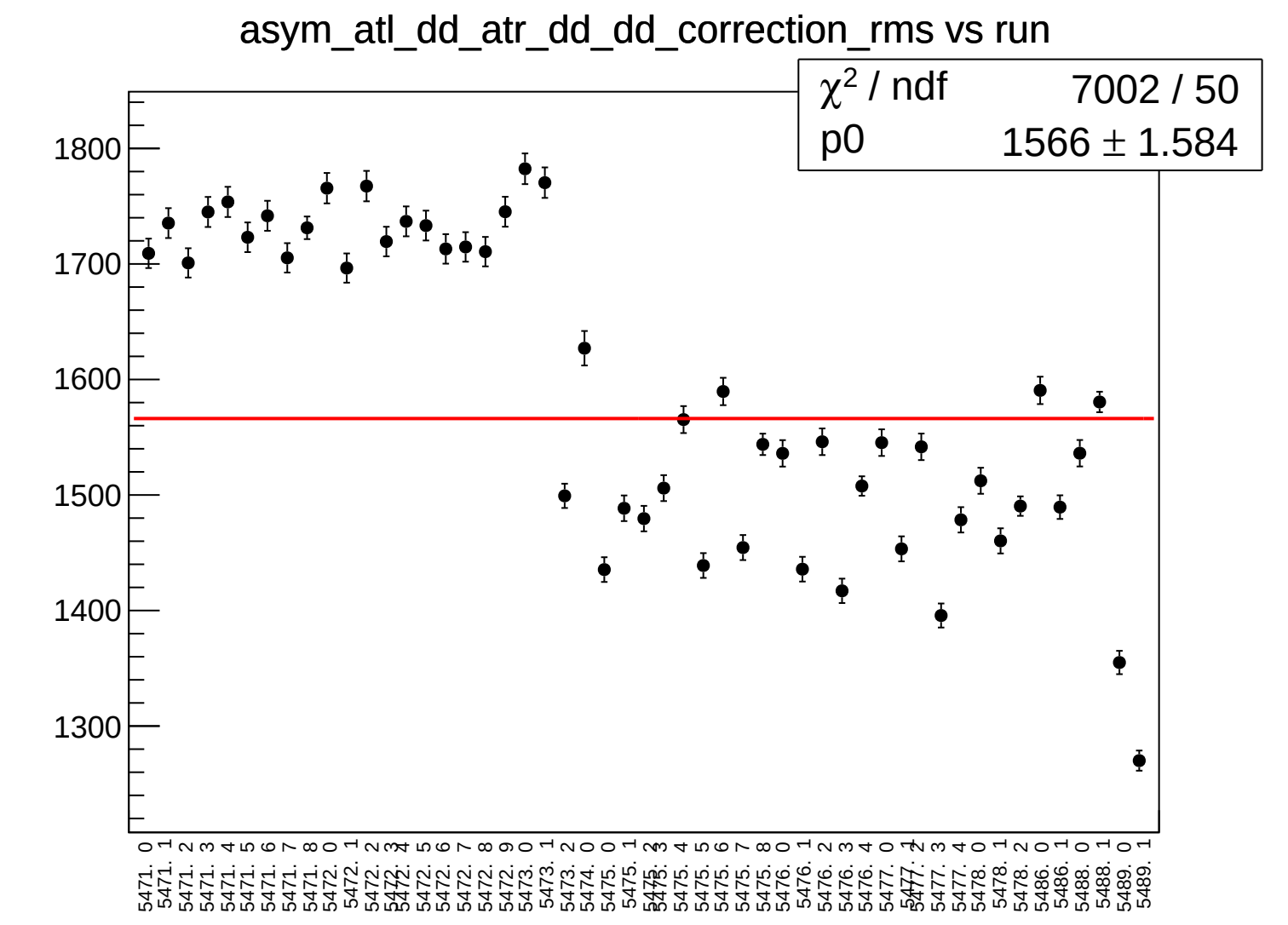

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6.217e+04 / 50
p0 3528 ± 3.672
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

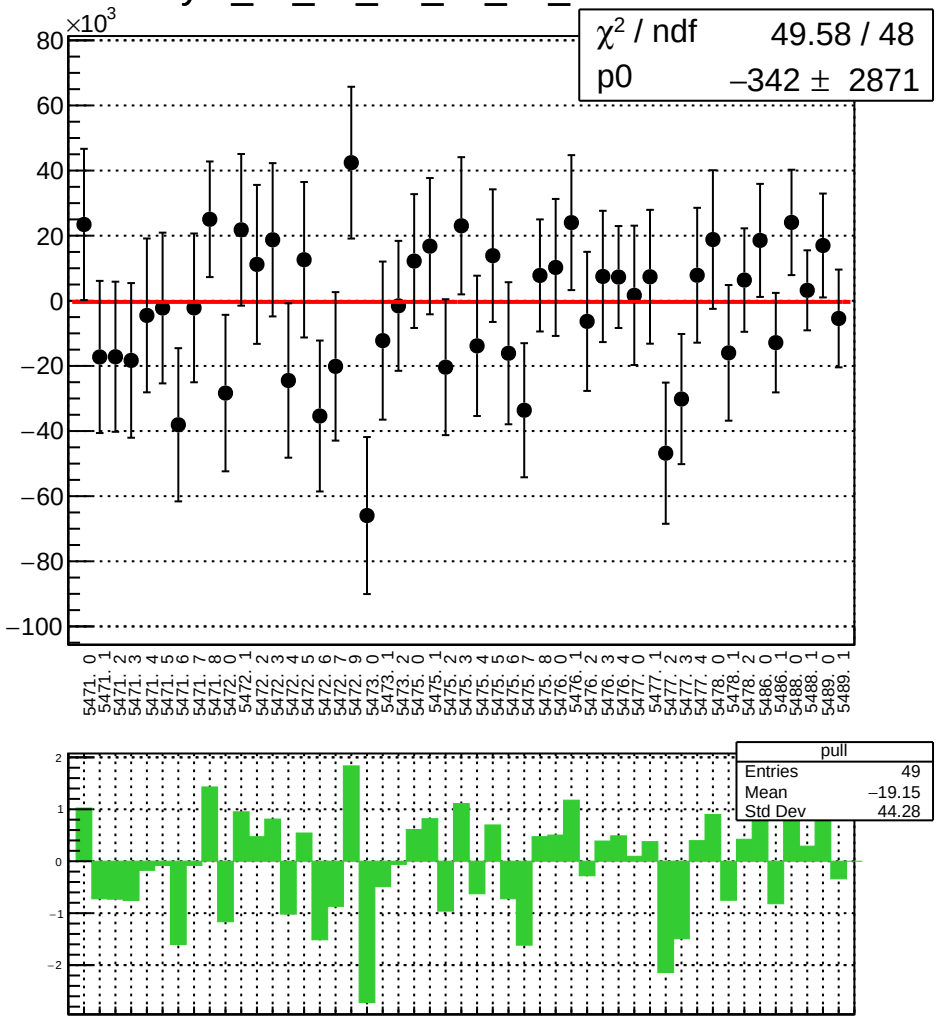

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 37.72 / 48
p0 −938.7 ± 1715
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 210.2
Std Dev 184.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 49
Mean 0.01891
Std Dev 0.8772
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

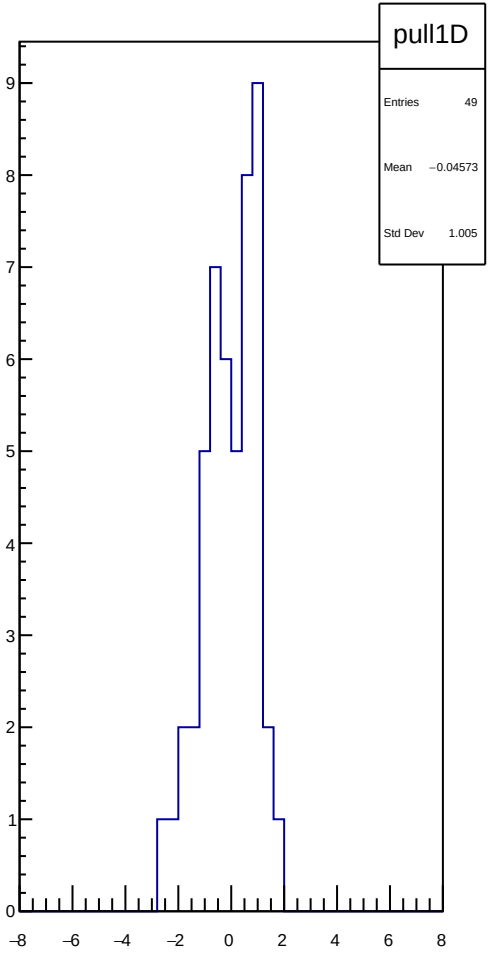

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4.495e+04 / 50
p0 1176 ± 1.213
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

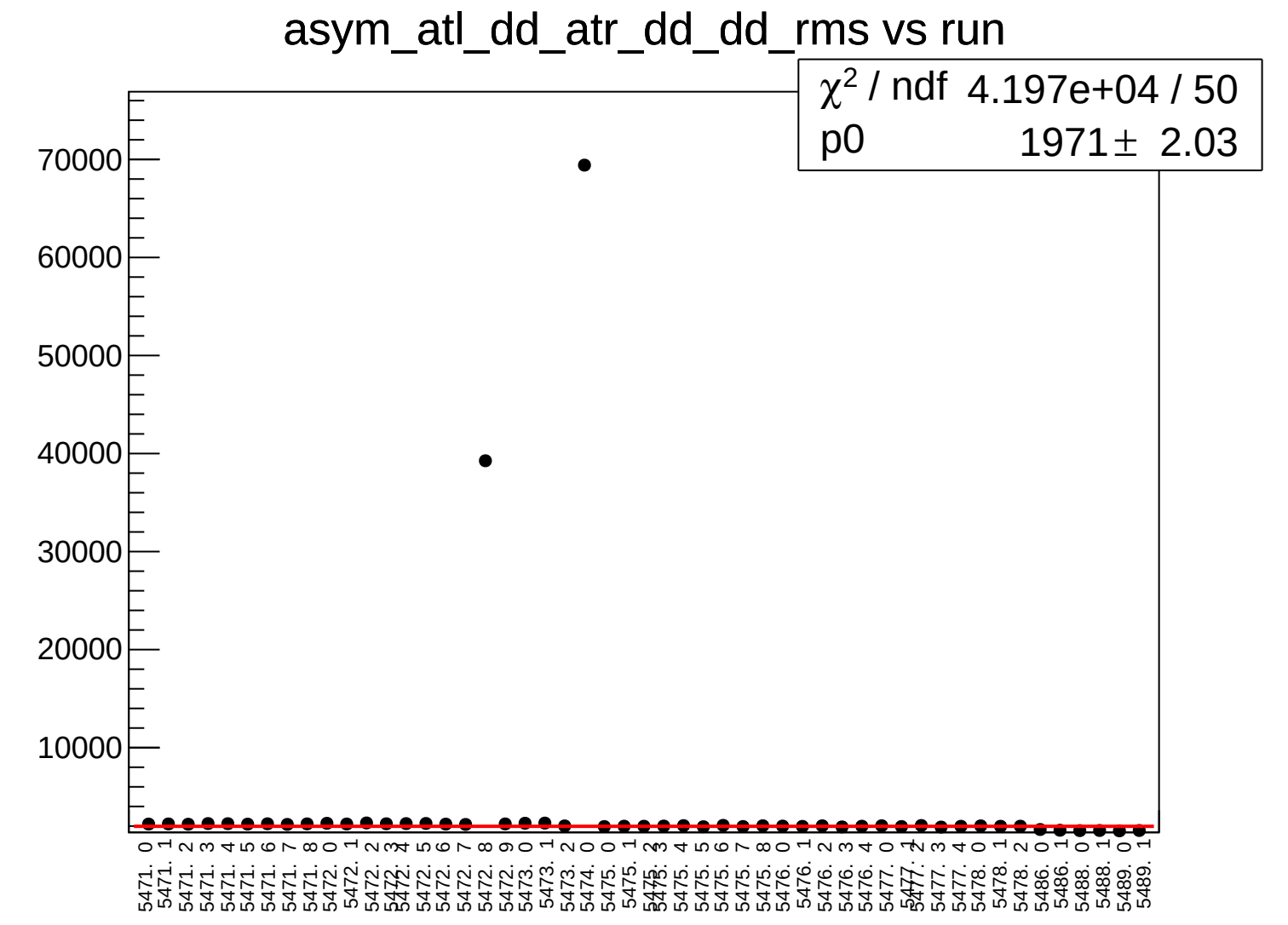

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 56.22 / 50
p0 1691 ± 2239
pull
Entries 51
Mean 83.98
Std Dev 55.32


pull1D
Entries 51
Mean 0.01624
Std Dev 1.05


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ^2 / ndf 7002 / 50
p0 1566 ± 1.584
1800
1700
1600
1500
1400
1300
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 49.58 / 48
p0 −342 ± 2871
pull
Entries 49
Mean −19.15
Std Dev 44.28


pull1D
Entries 49
Mean −0.04573
Std Dev 1.005


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4.197e+04 / 50
p0 1971 ± 2.03
70000
60000
50000
40000
30000
20000
10000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
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5478. 1
5478. 2
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5486. 1
5488. 0
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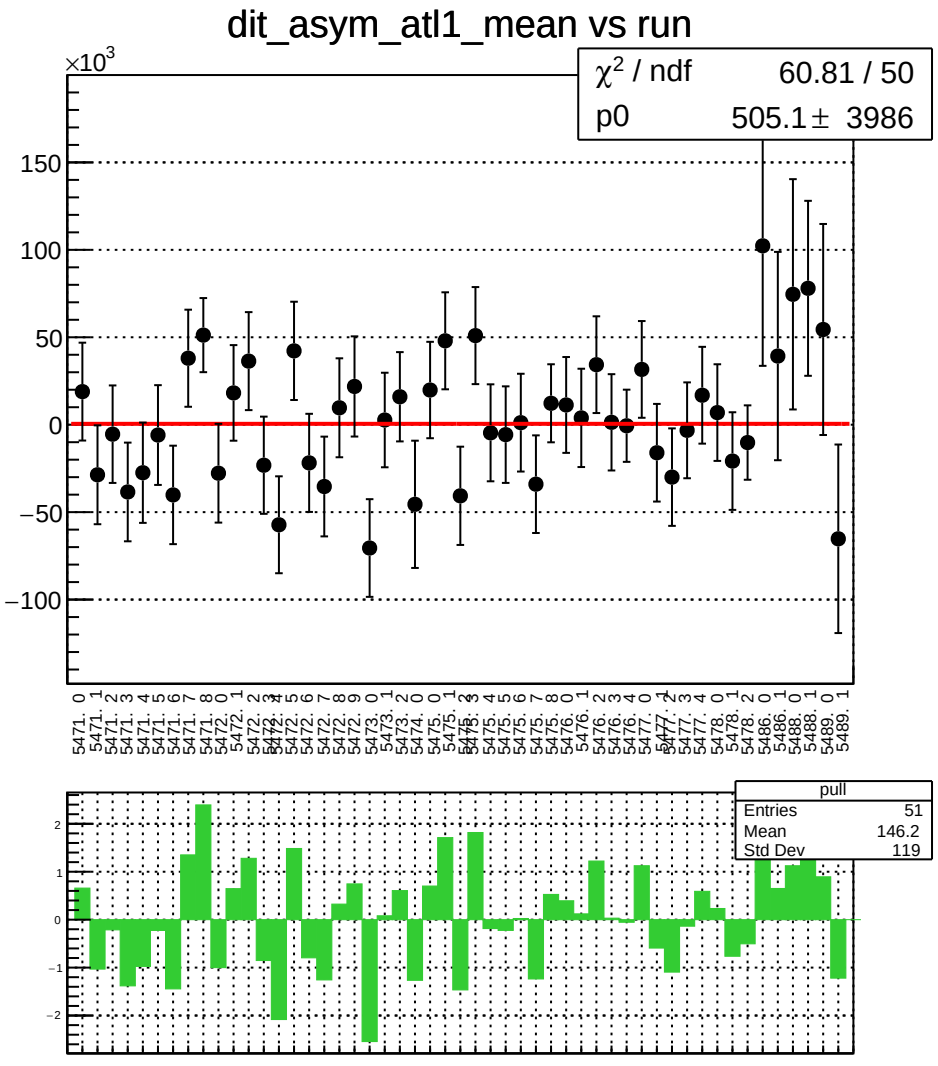
5489. 1


dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 60.81 / 50
p0 505.1 ± 3986
150
100
50
0
−50
−100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
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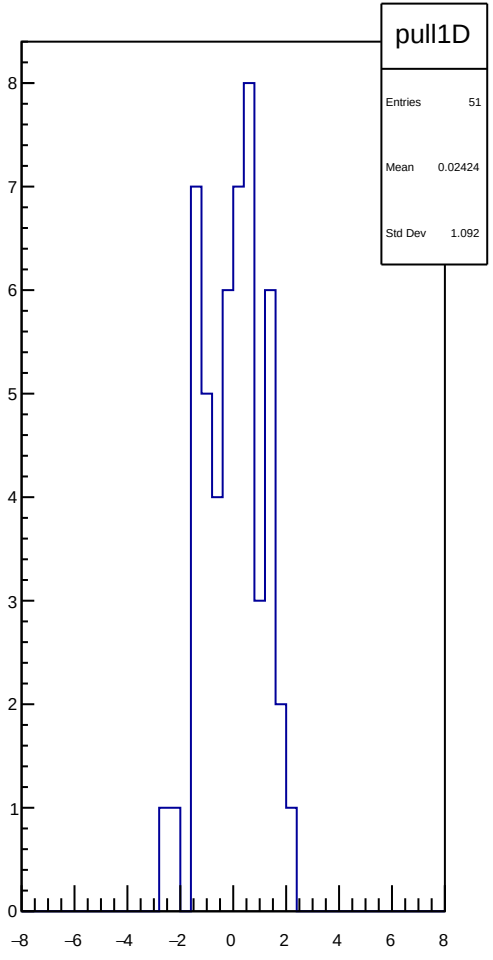
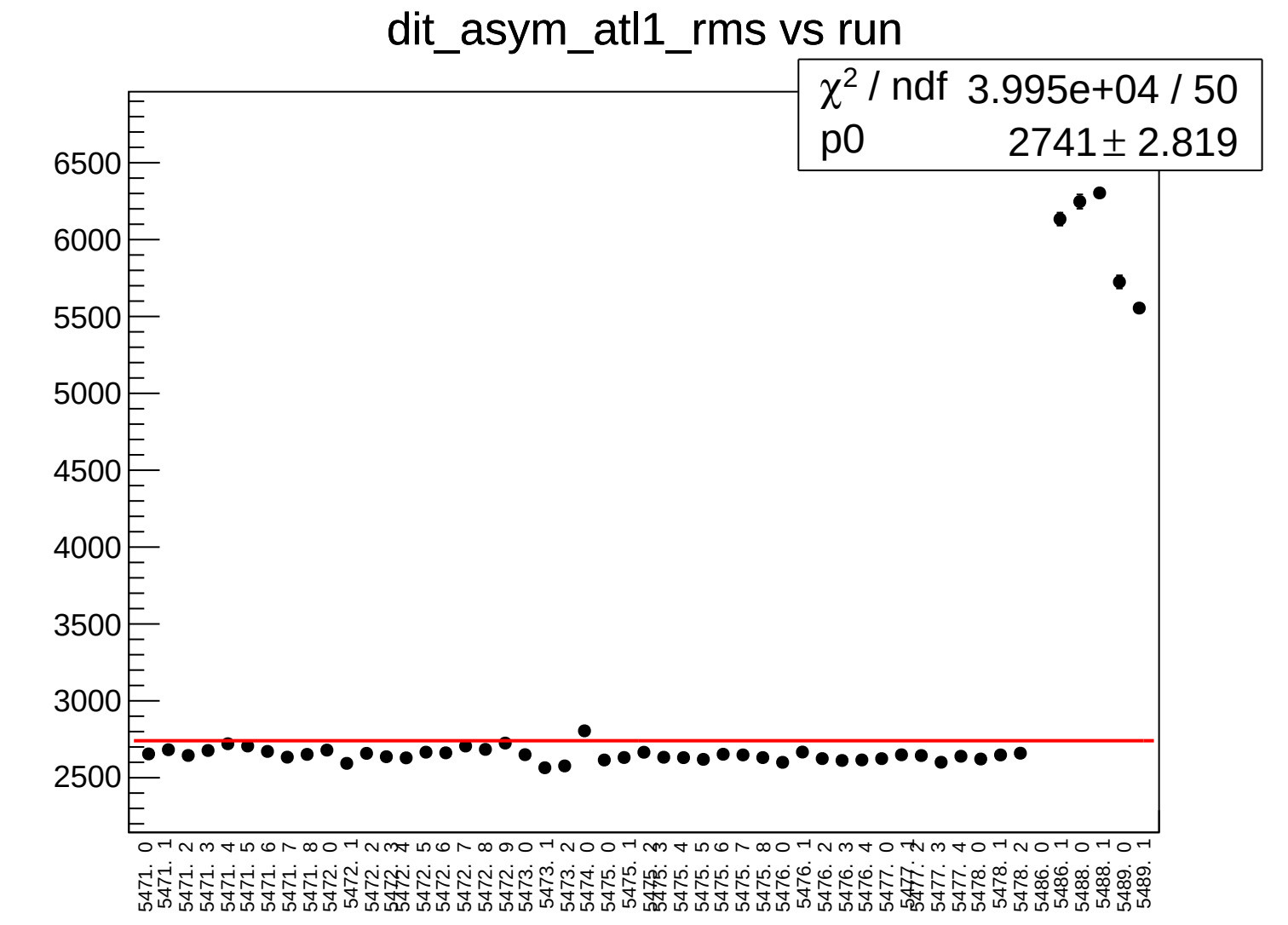
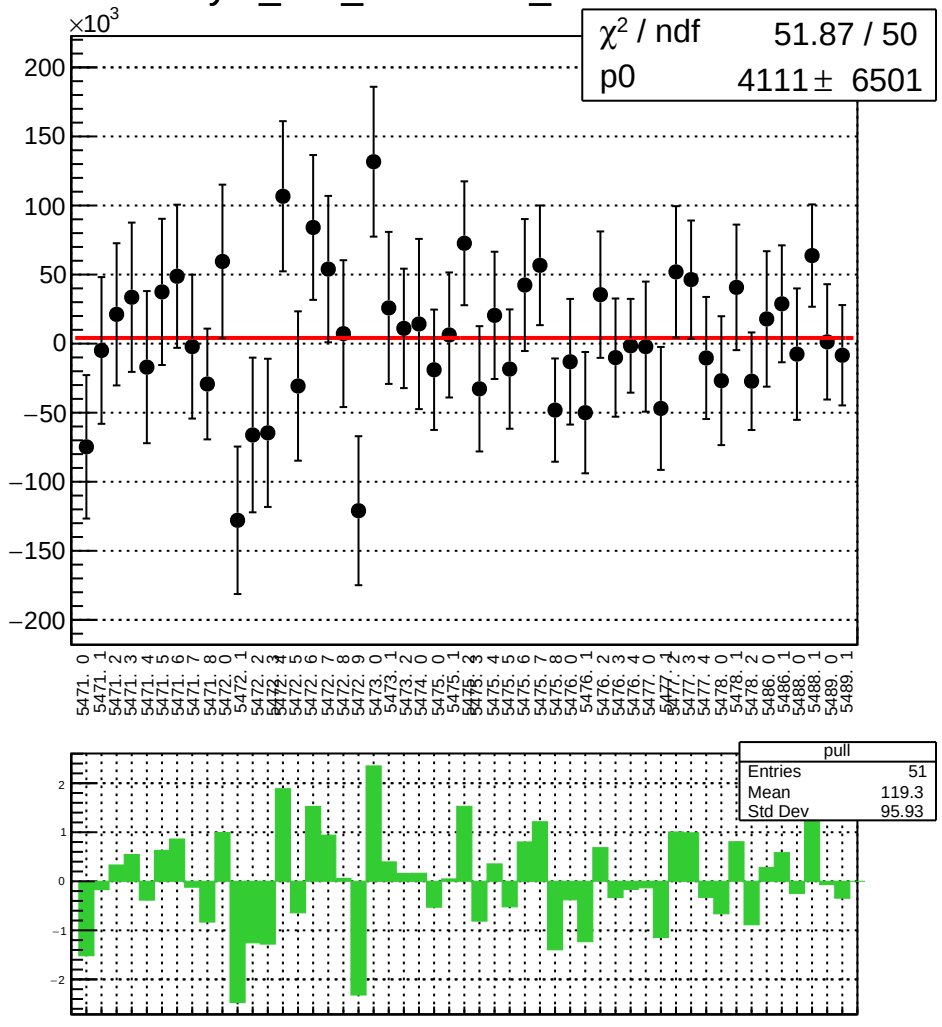
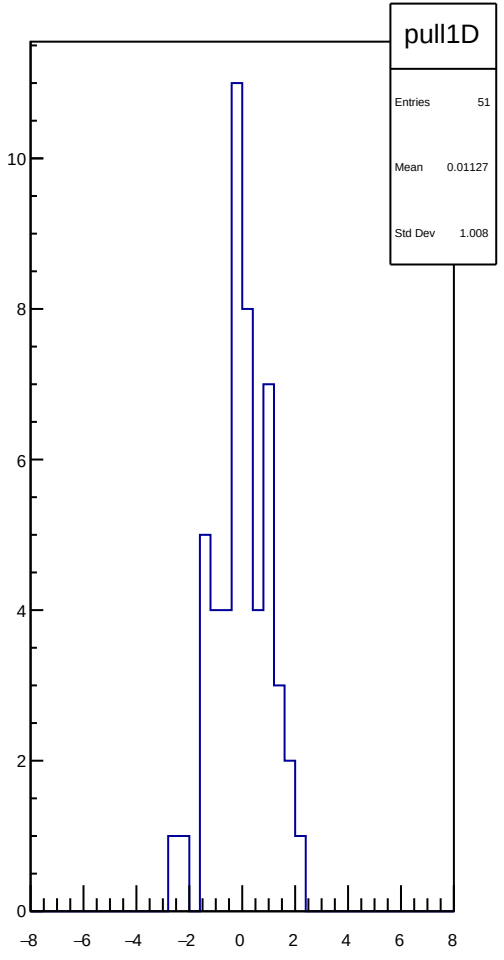
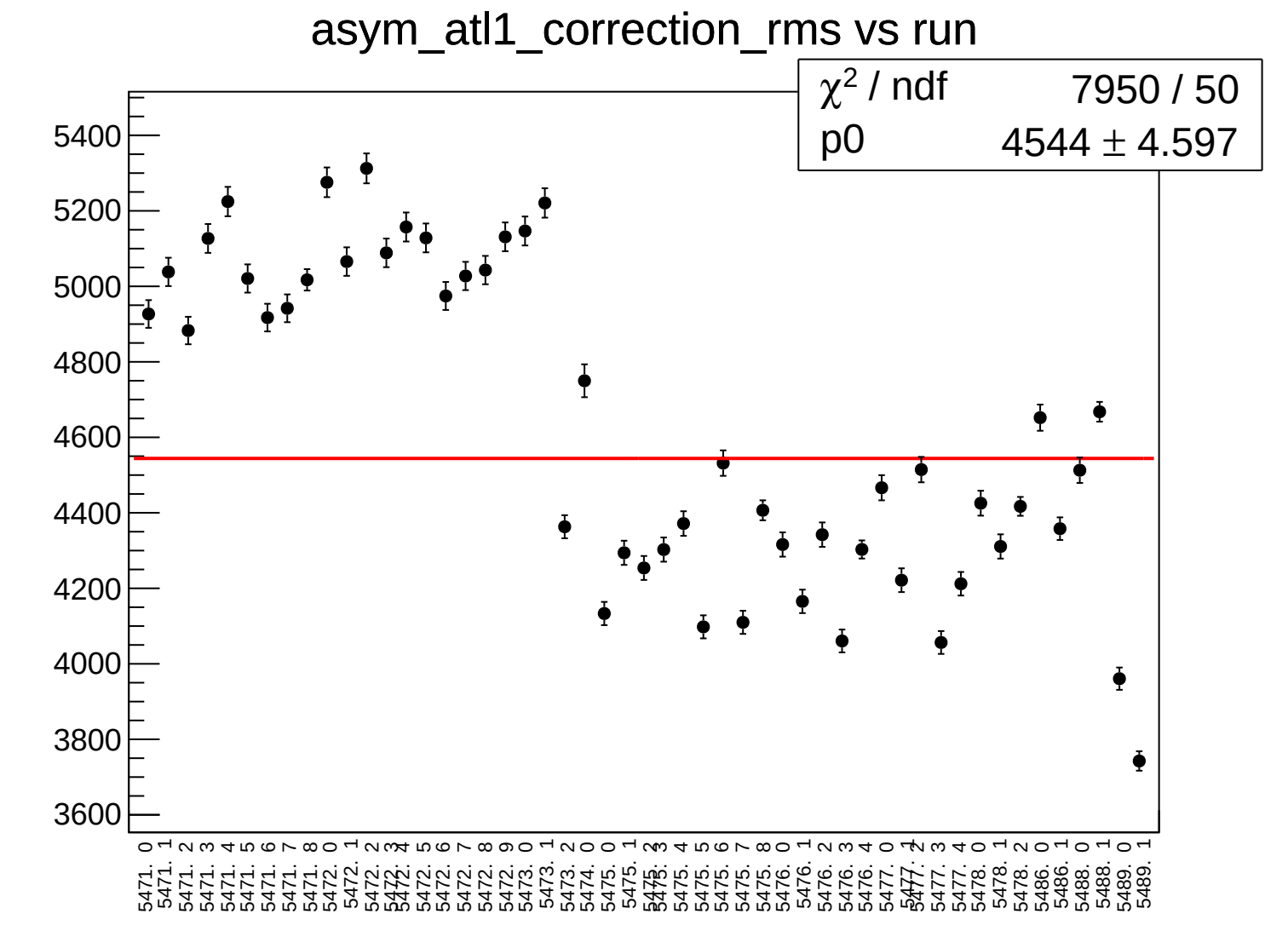
5489. 0
5489. 1
pull
Entries 51
Mean 146.2
Std Dev 119
2
1
0
−1
−2

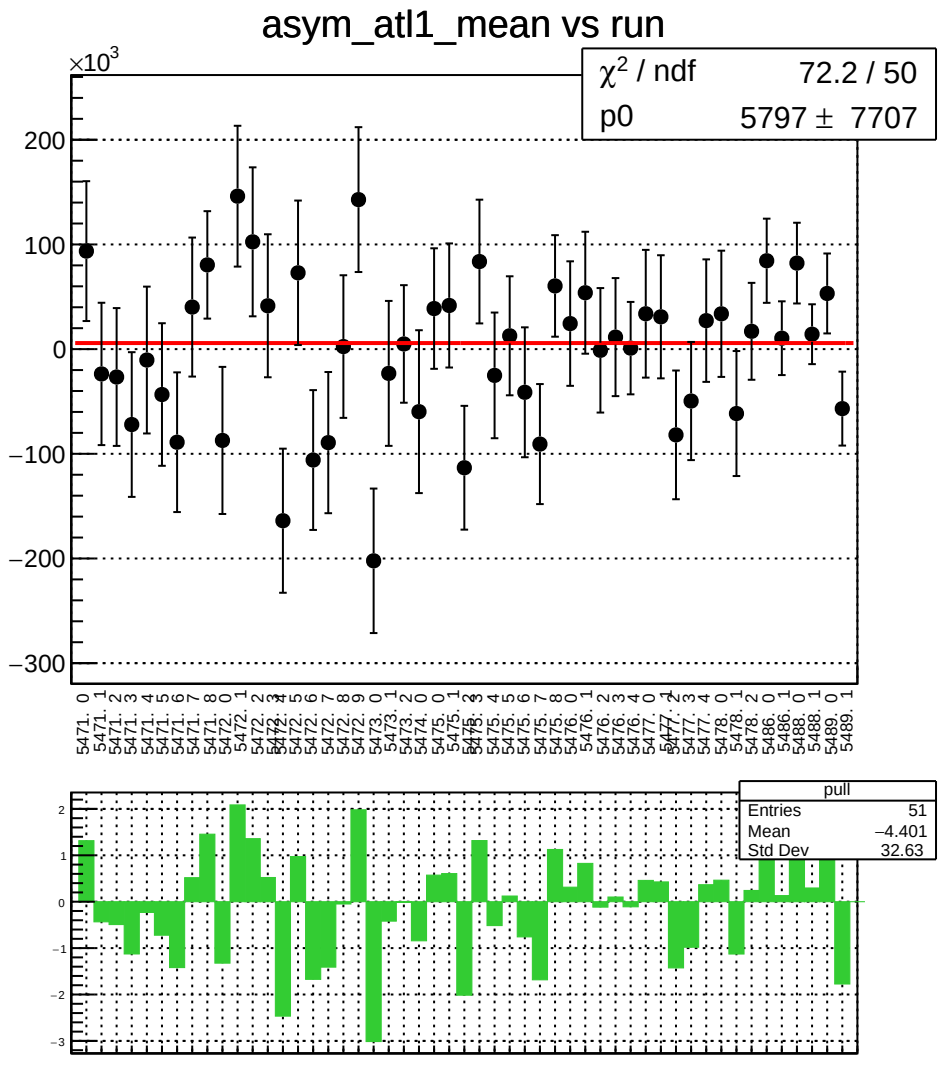

pull1D
Entries 51
Mean 0.02424
Std Dev 1.092
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

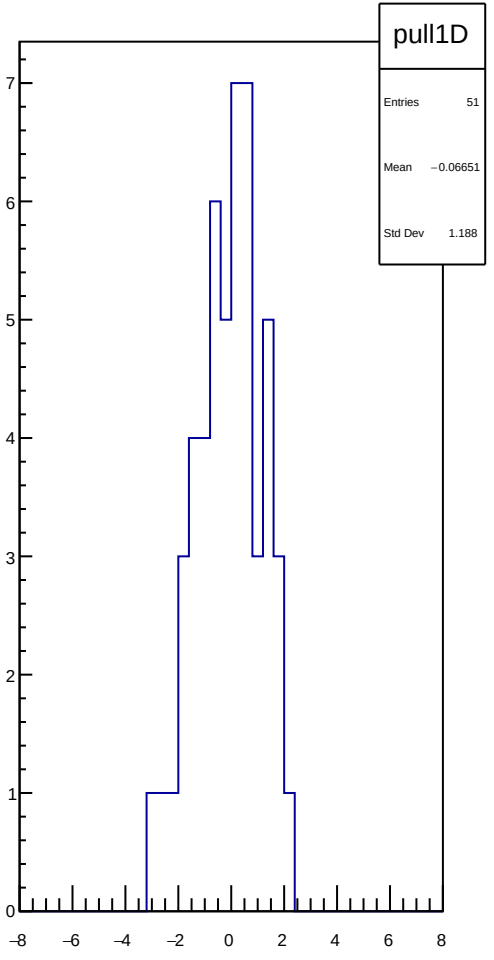

dit_asym_atl1_rms vs run
χ² / ndf 3.995e+04 / 50
p0 2741 ± 2.819
6500
6000
5500
5000
4500
4000
3500
3000
2500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

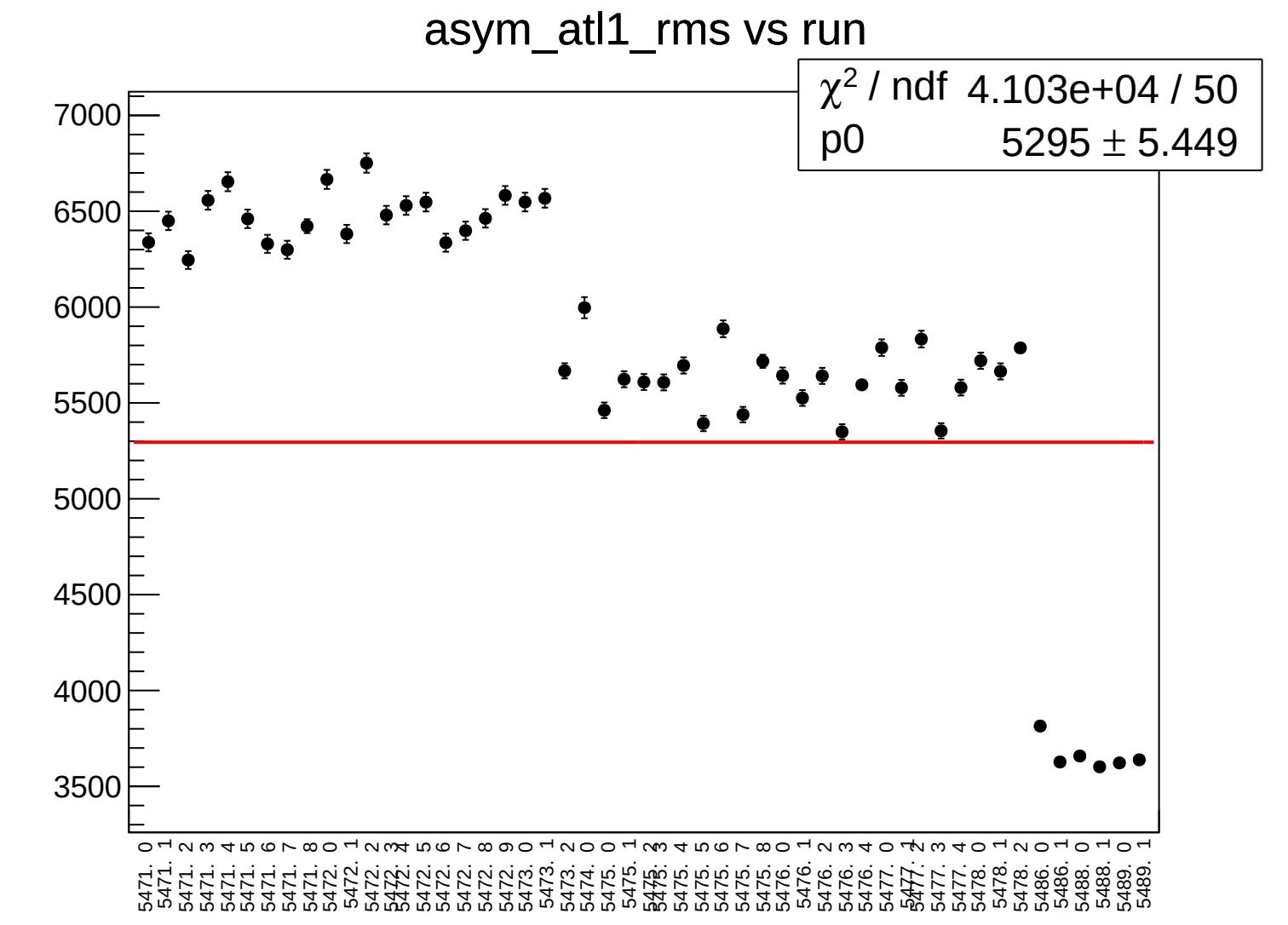

asym_atl1_correction_mean vs run
×10^3
χ² / ndf 51.87 / 50
p0 4111 ± 6501
pull
Entries 51
Mean 119.3
Std Dev 95.93

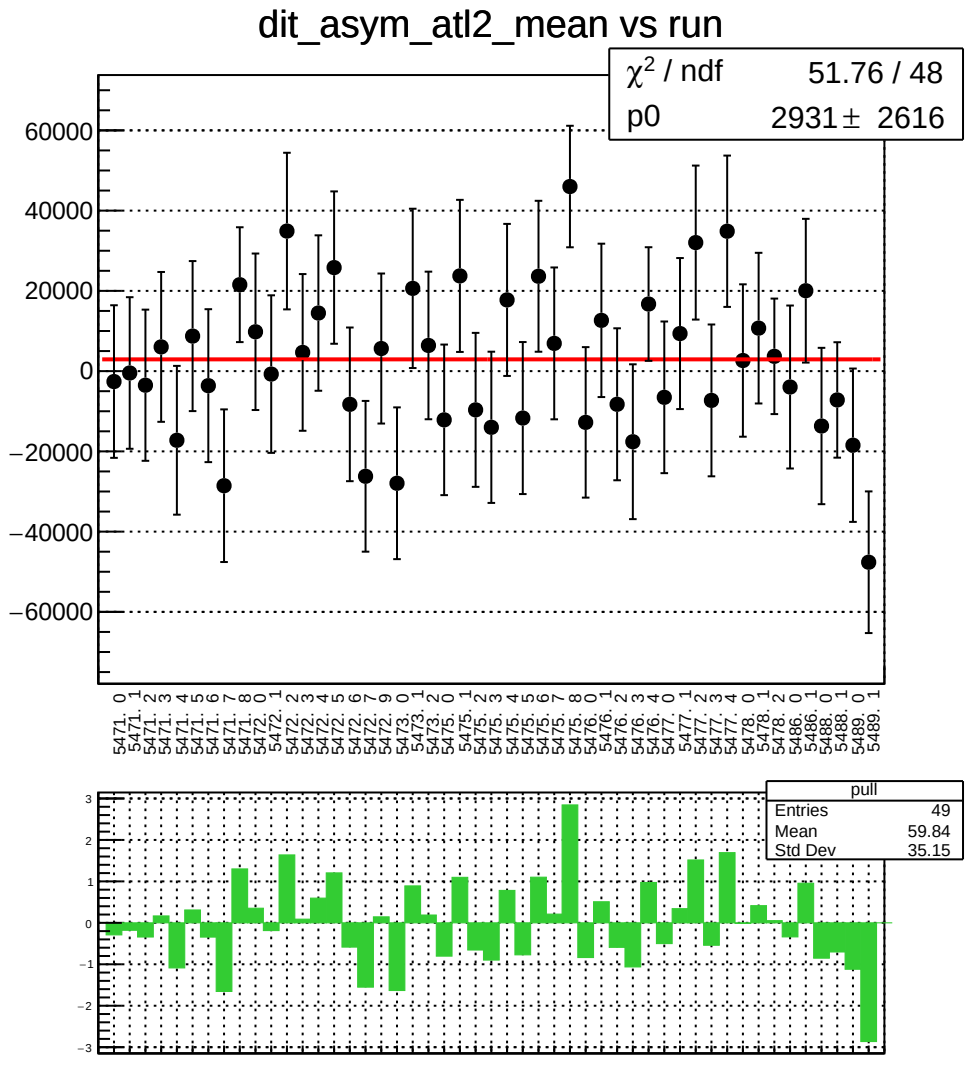

pull1D
Entries 51
Mean 0.01127
Std Dev 1.008

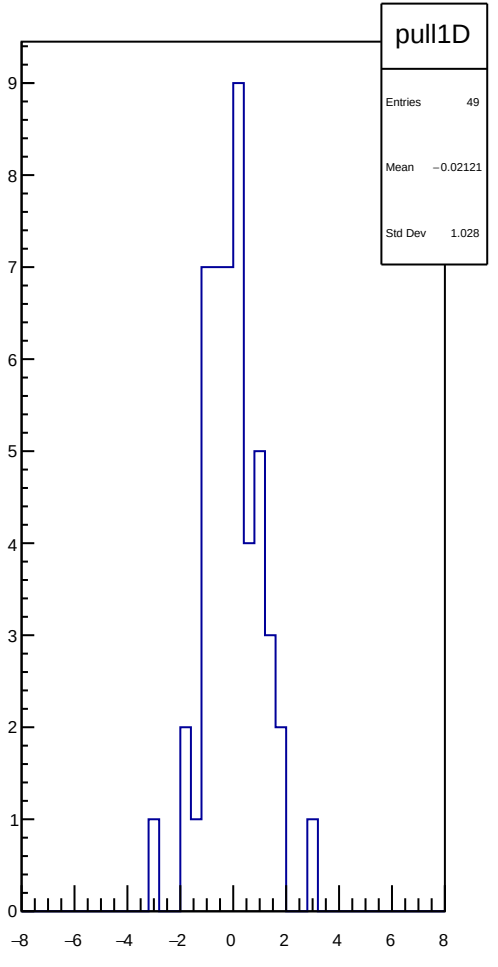

asym_atl1_correction_rms vs run
χ² / ndf 7950 / 50
p0 4544 ± 4.597
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

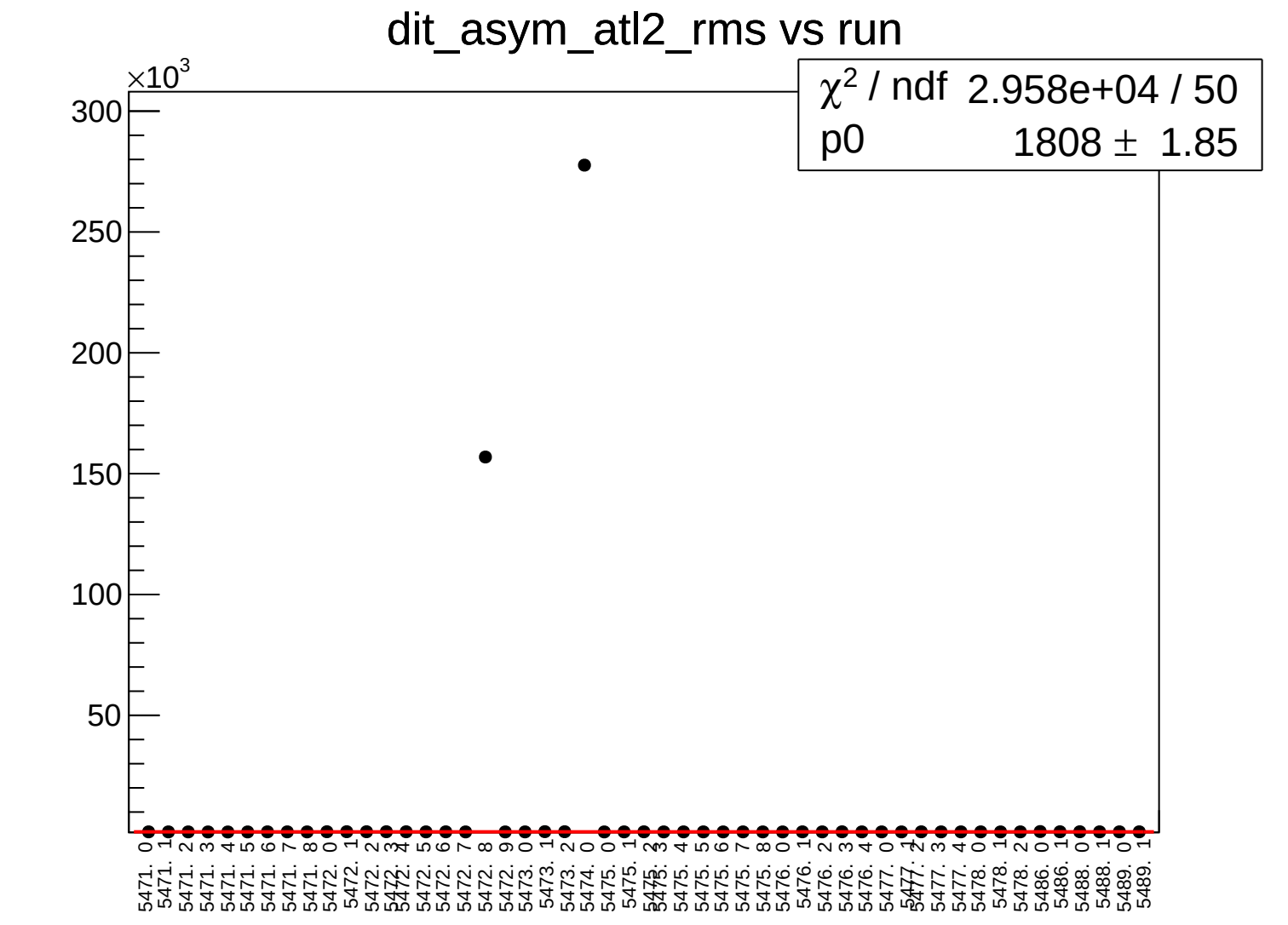

asym_atl1_mean vs run
×10^3
χ^2 / ndf 72.2 / 50
p0 5797 ± 7707
200
100
0
−100
−200
−300
pull
Entries 51
Mean −4.401
Std Dev 32.63
2
1
0
−1
−2
−3

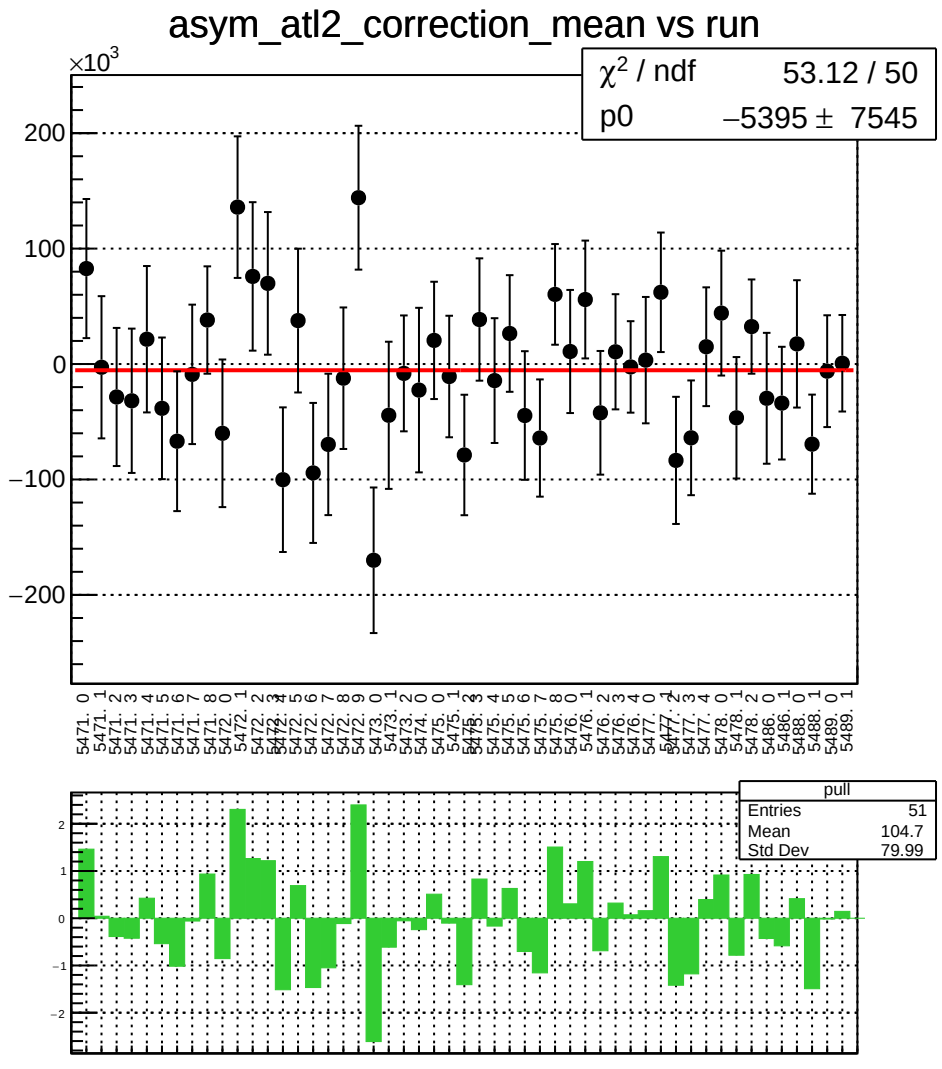

pull1D
Entries 51
Mean −0.06651
Std Dev 1.188
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

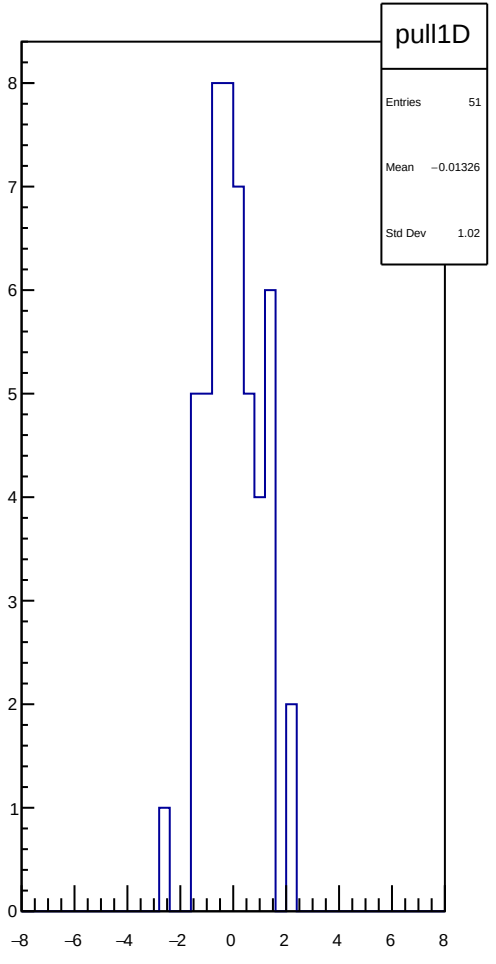

asym_atl1_rms vs run
χ^2 / ndf 4.103e+04 / 50
p0 5295 ± 5.449
7000
6500
6000
5500
5000
4500
4000
3500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

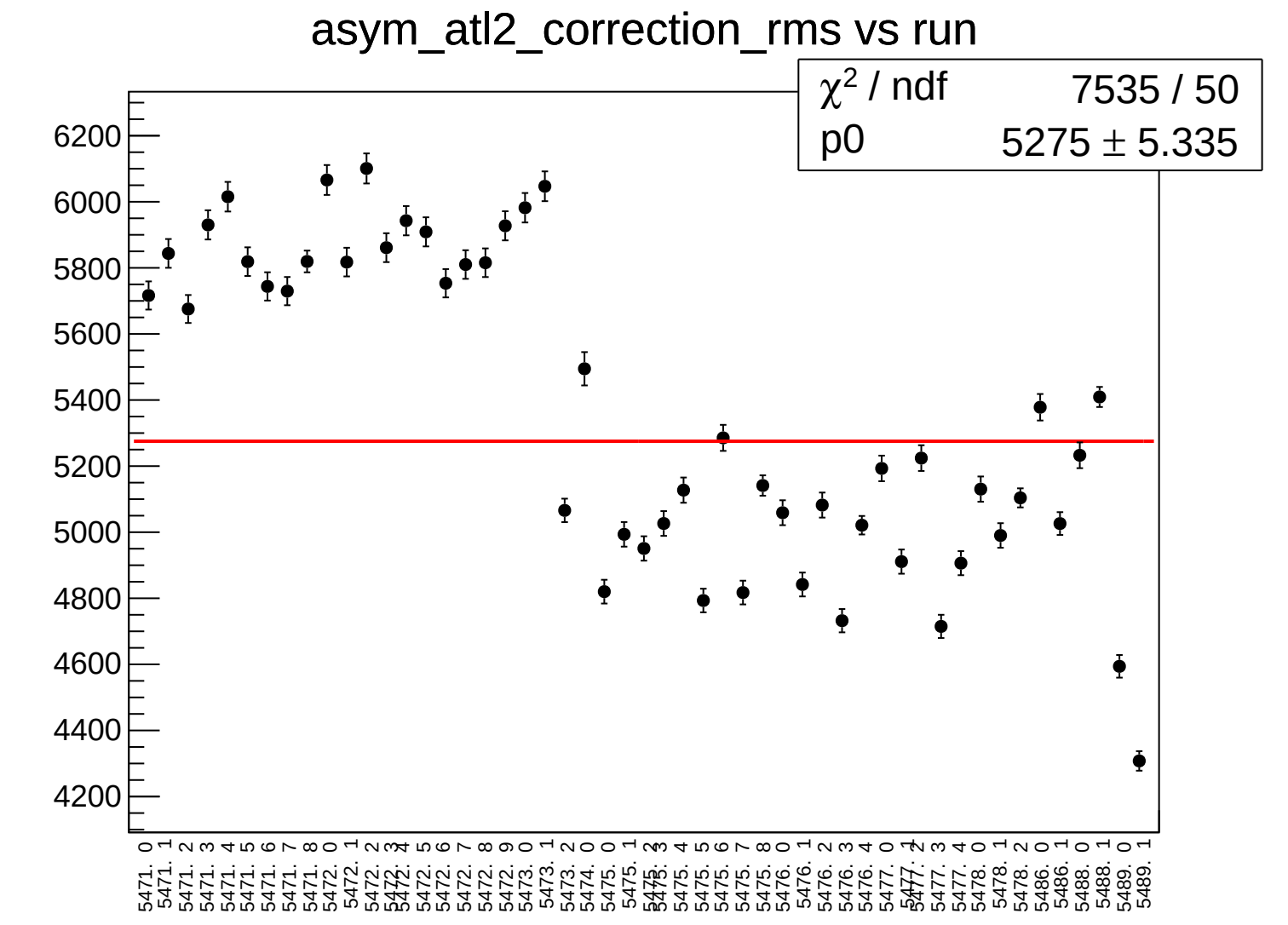

dit_asym_atl2_mean vs run
χ² / ndf 51.76 / 48
p0 2931 ± 2616
60000
40000
20000
0
−20000
−40000
−60000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 59.84
Std Dev 35.15
3
2
1
0
−1
−2
−3

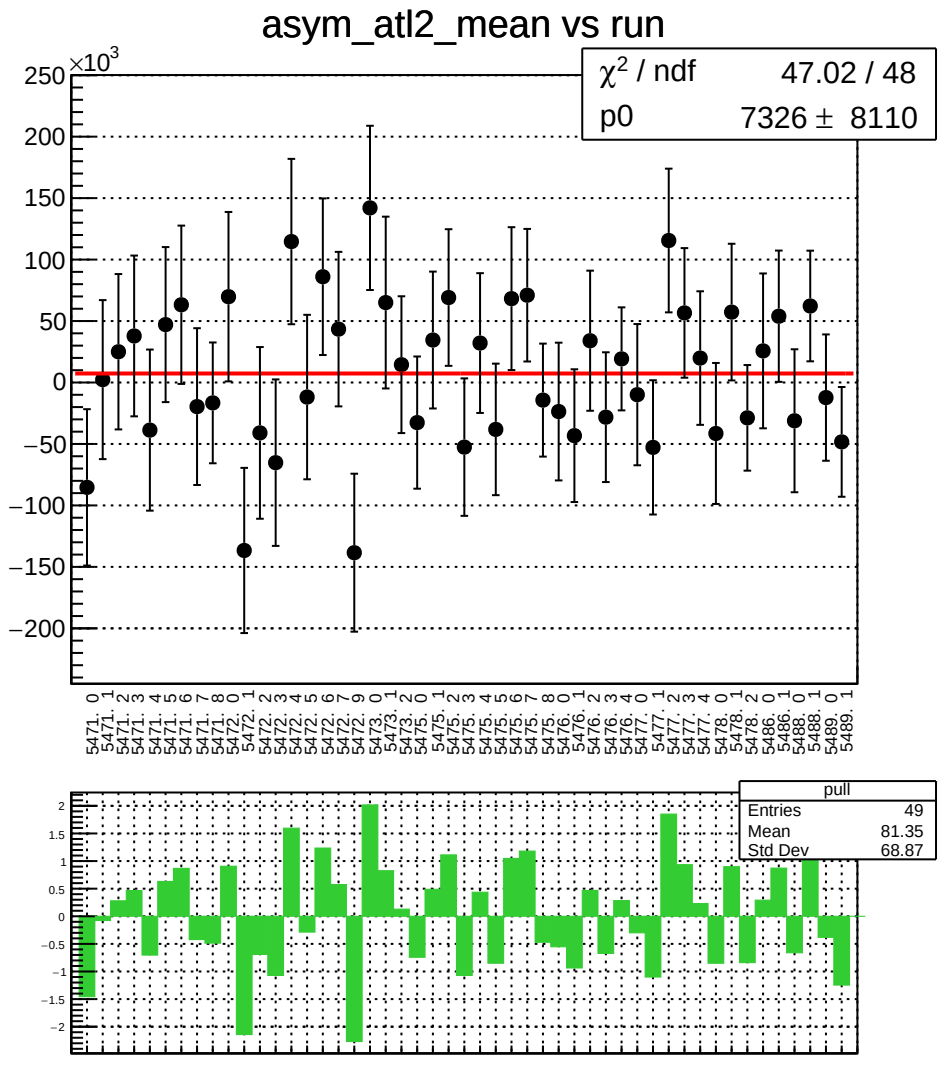

pull1D
Entries 49
Mean −0.02121
Std Dev 1.028
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

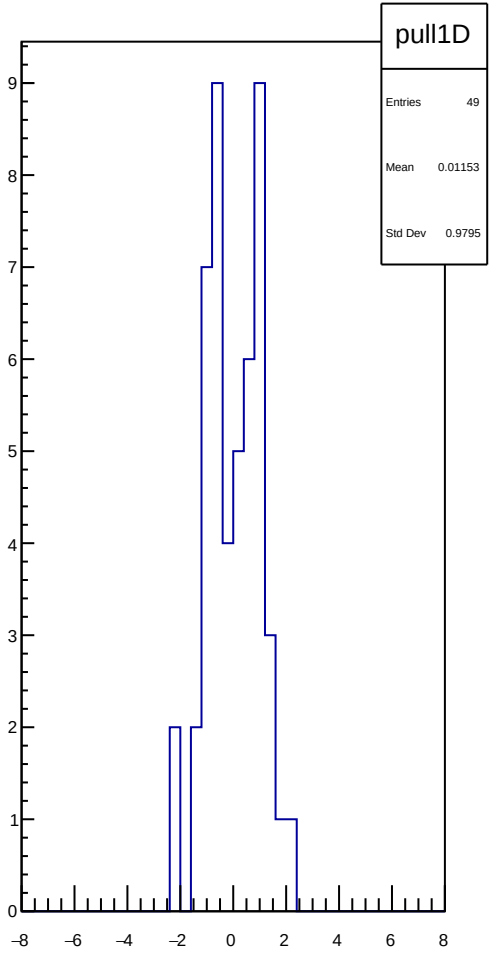

dit_asym_atl2_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 2.958e+04 / 50
p0 1808 ± 1.85
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

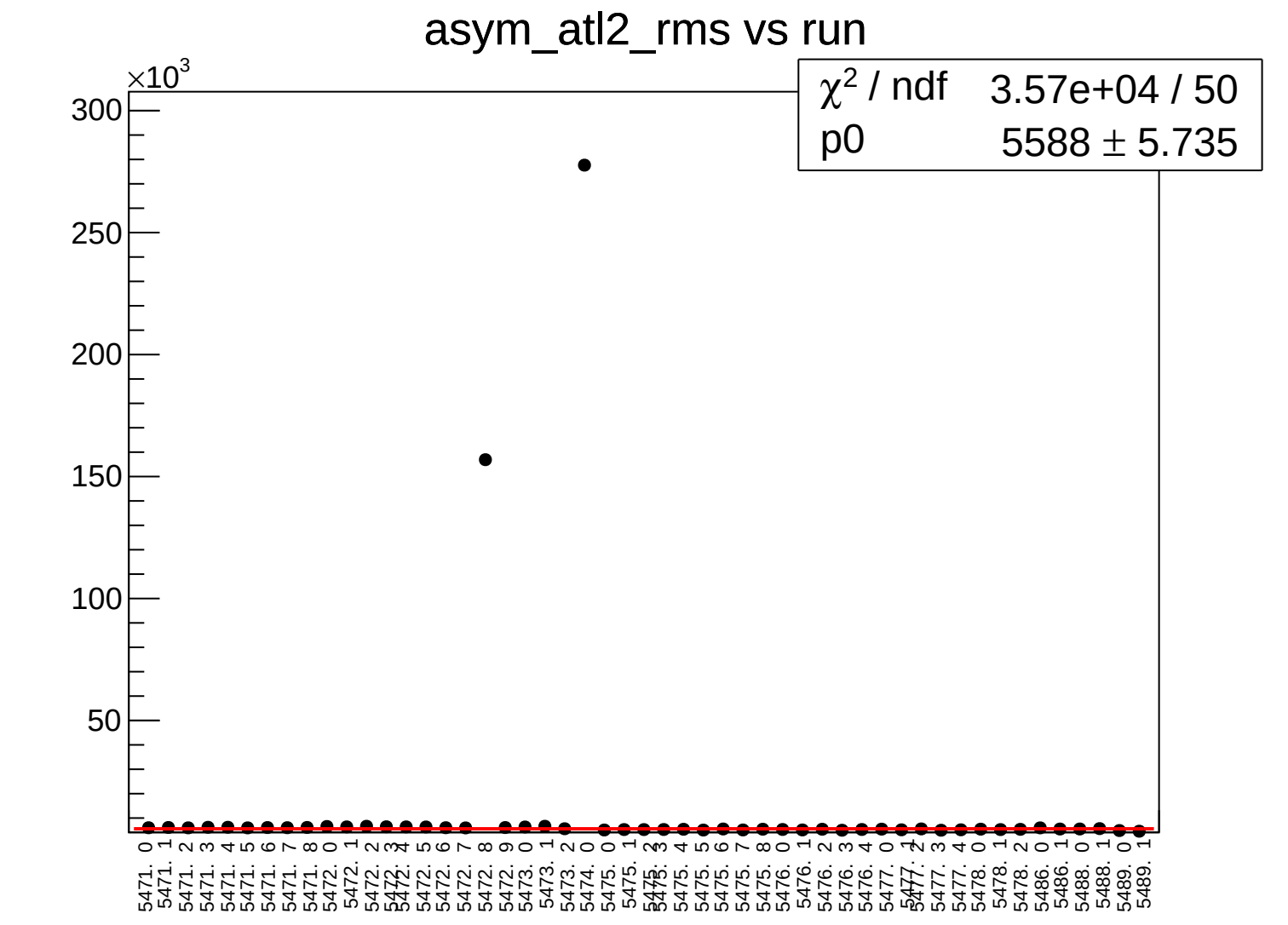

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 53.12 / 50
p0 −5395 ± 7545
200
100
0
−100
−200
pull
Entries 51
Mean 104.7
Std Dev 79.99
2
1
0
−1
−2

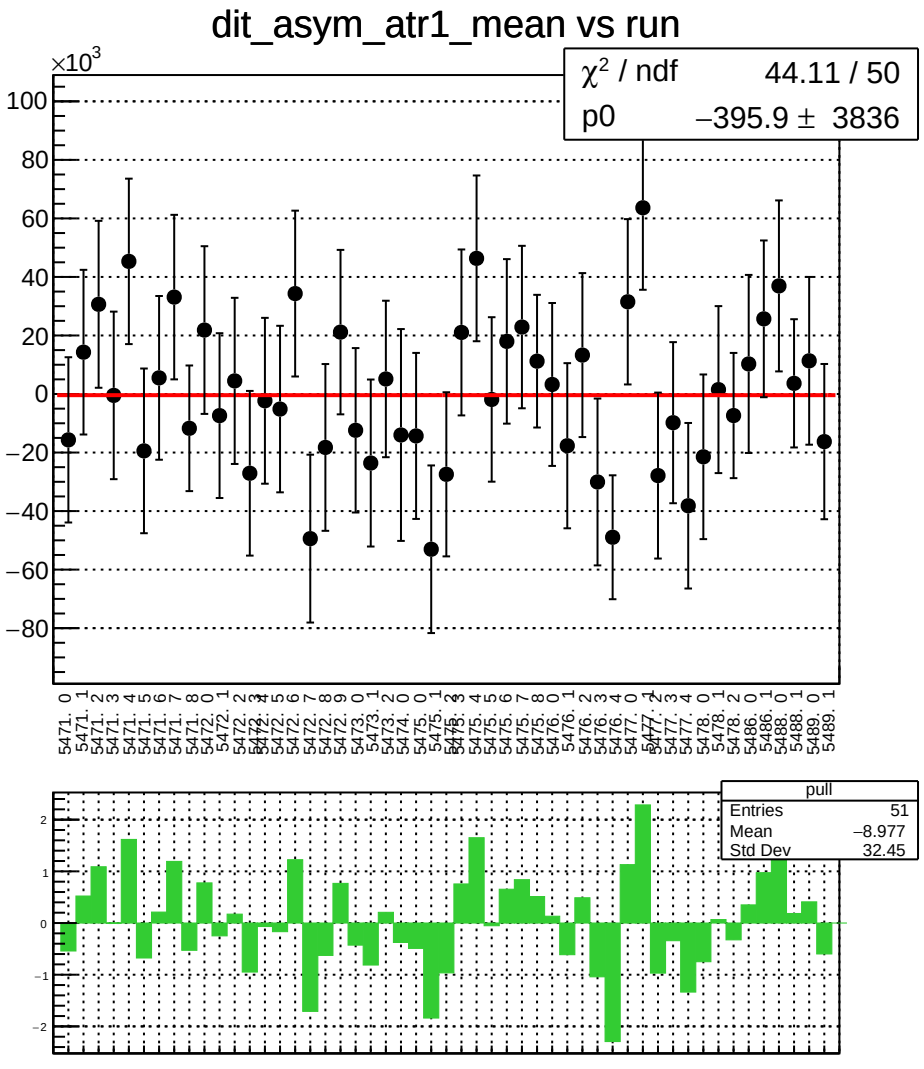

pull1D
Entries 51
Mean −0.01326
Std Dev 1.02
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

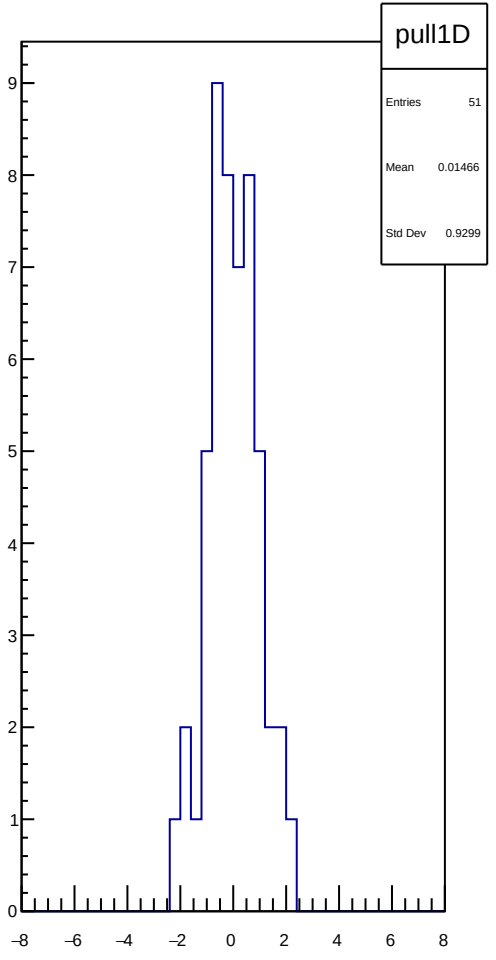

asym_atl2_correction_rms vs run
χ² / ndf 7535 / 50
p0 5275 ± 5.335
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

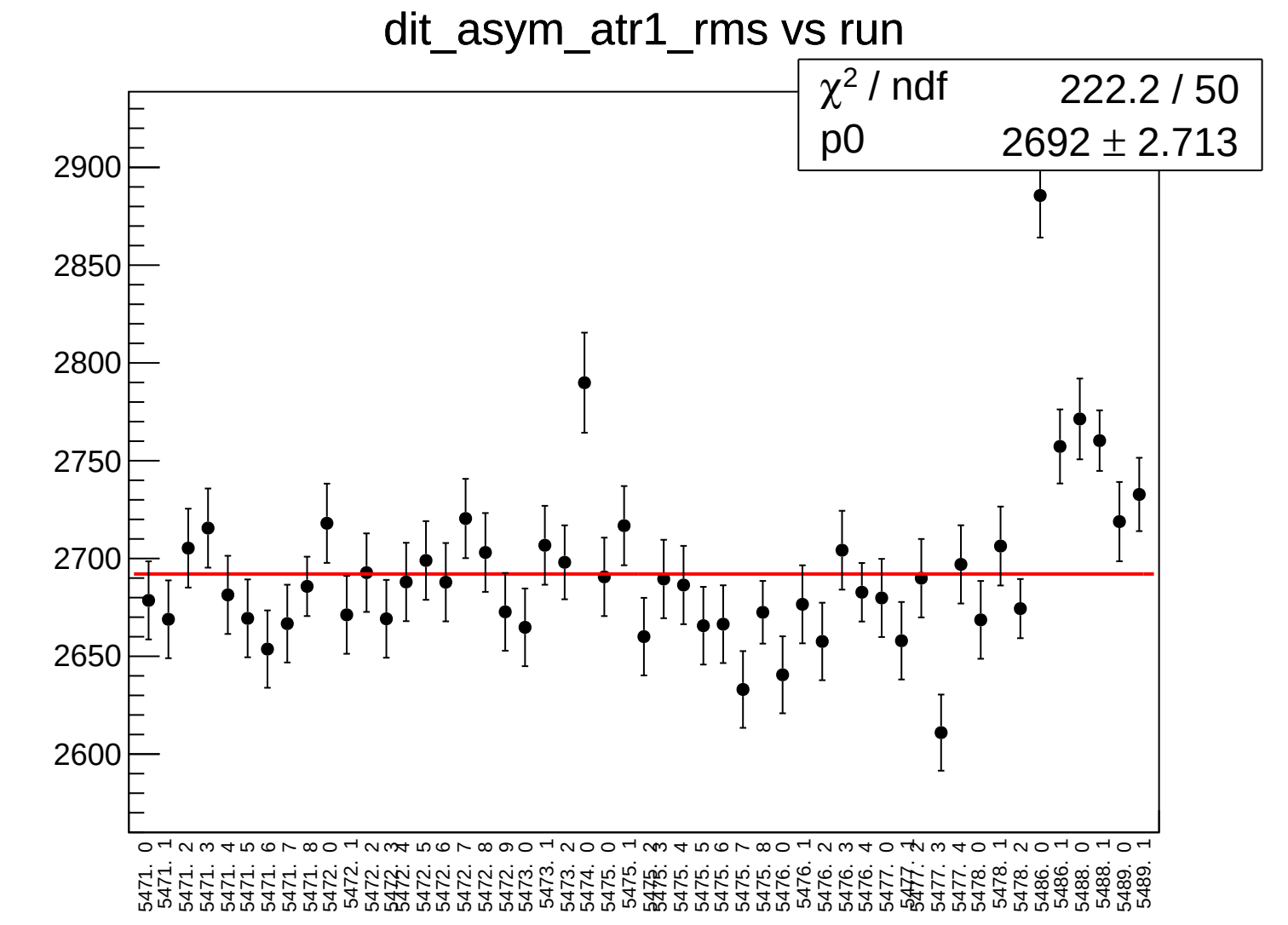

asym_atl2_mean vs run
×10^3
χ² / ndf 47.02 / 48
p0 7326 ± 8110
250
200
150
100
50
0
−50
−100
−150
−200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 9
5473. 0
5473. 1
5473. 2
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 49
Mean 81.35
Std Dev 68.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 49
Mean 0.01153
Std Dev 0.9795
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 3.57e+04 / 50
p0 5588 ± 5.735
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


dit_asym_atr1_mean vs run
×10^3
χ² / ndf 44.11 / 50
p0 −395.9 ± 3836
pull
Entries 51
Mean −8.977
Std Dev 32.45


pull1D
Entries 51
Mean 0.01466
Std Dev 0.9299


dit_asym_atr1_rms vs run
χ^2 / ndf 222.2 / 50
p0 2692 ± 2.713
2900
2850
2800
2750
2700
2650
2600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
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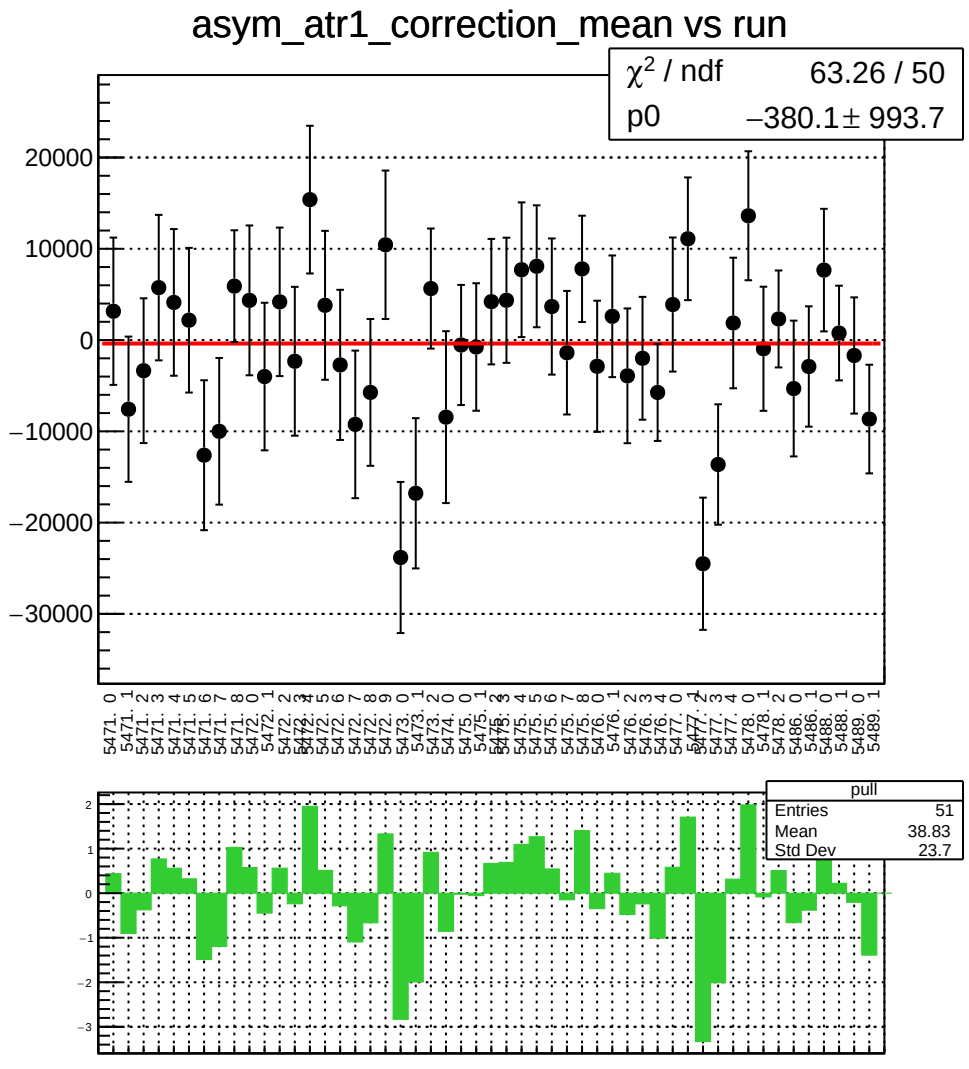
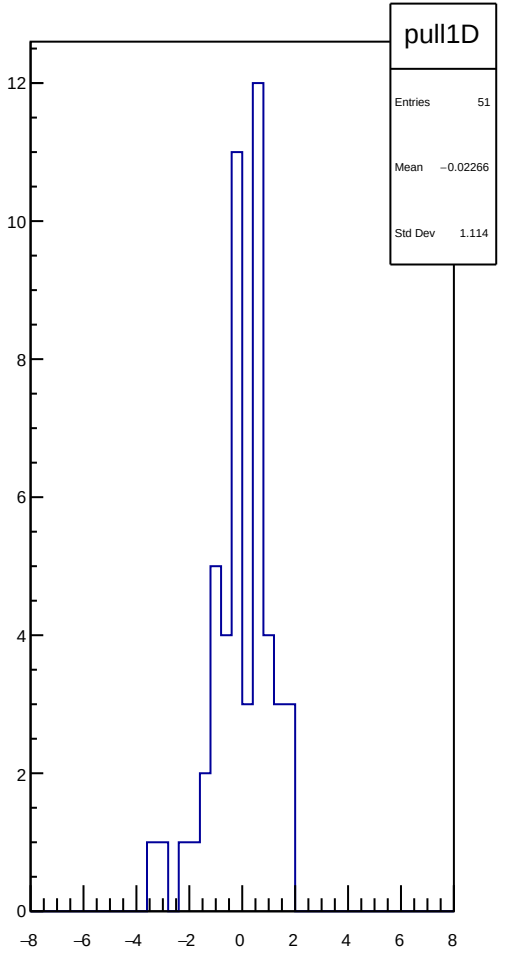
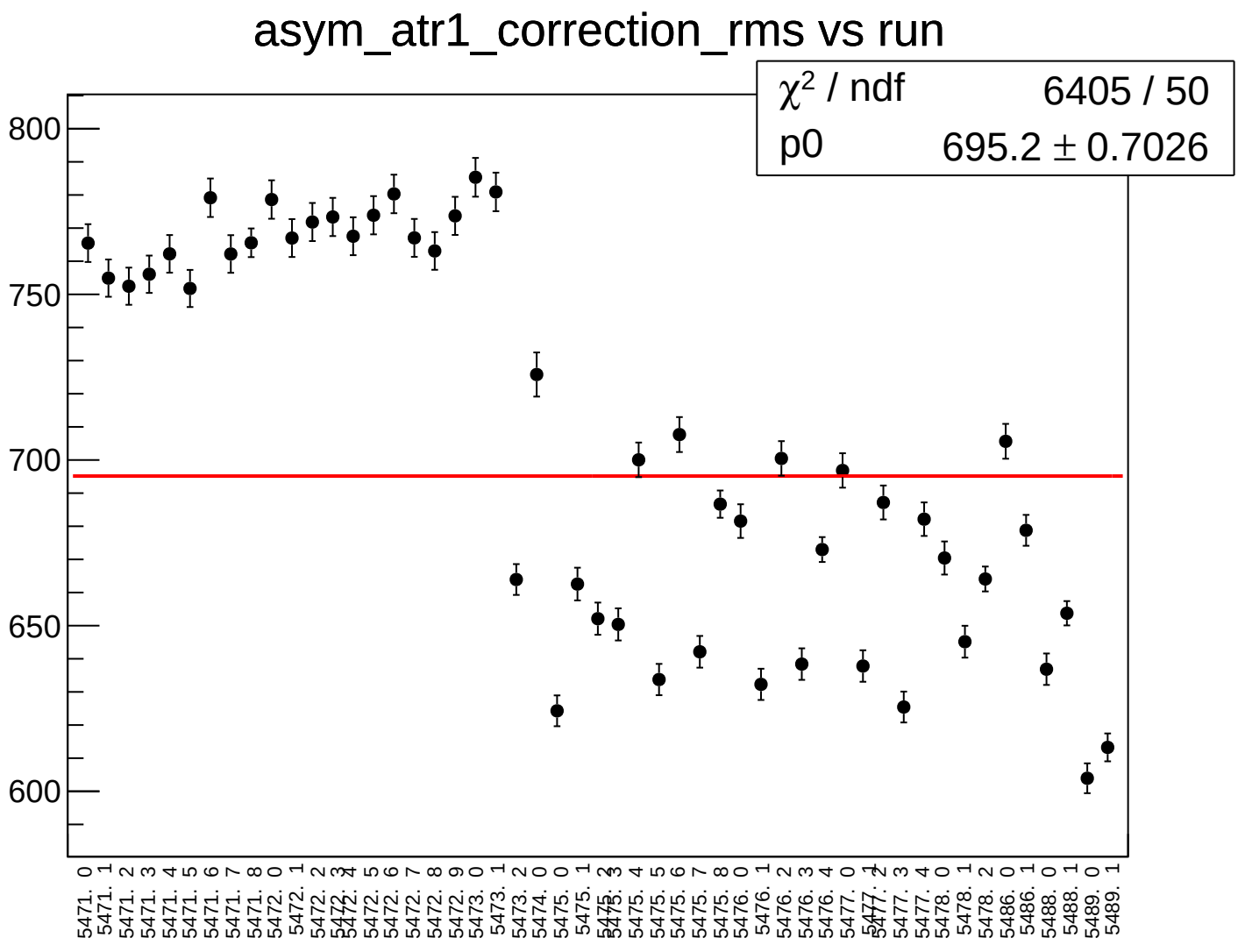
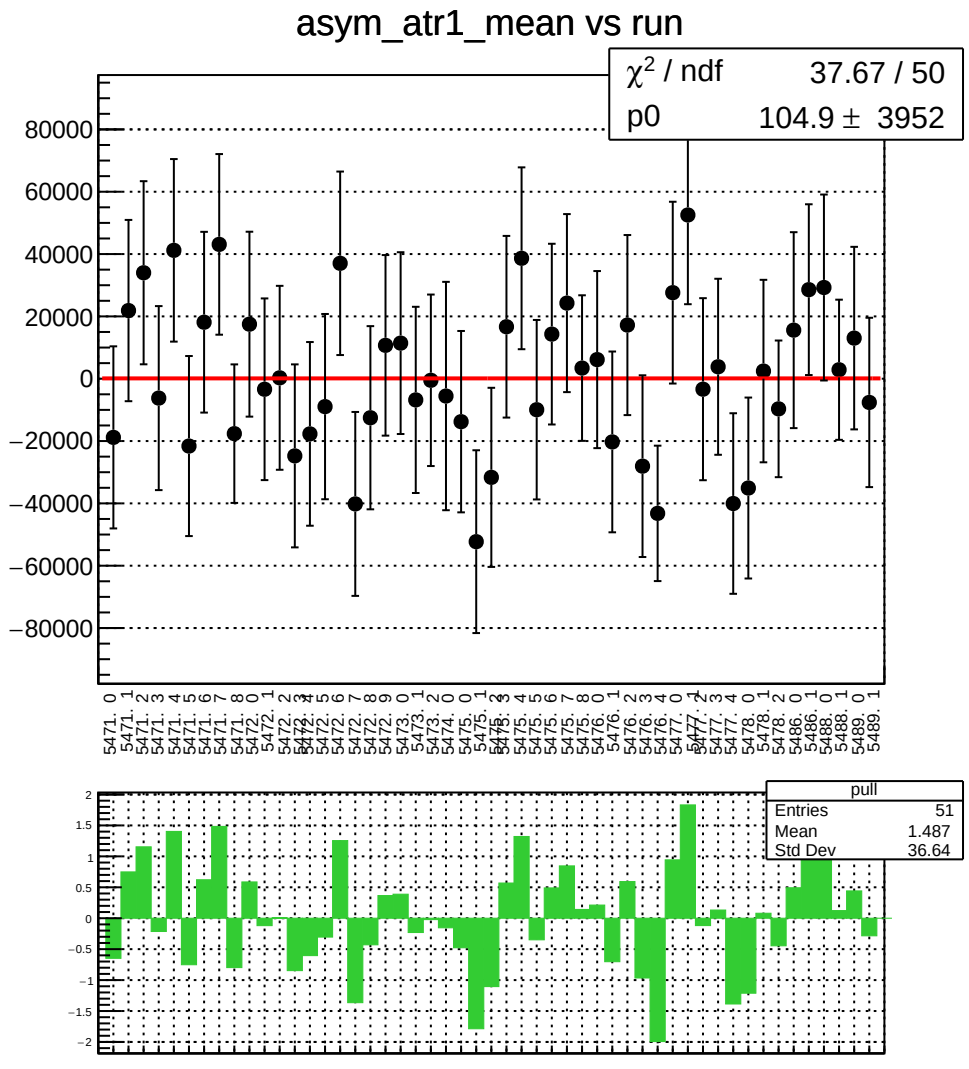
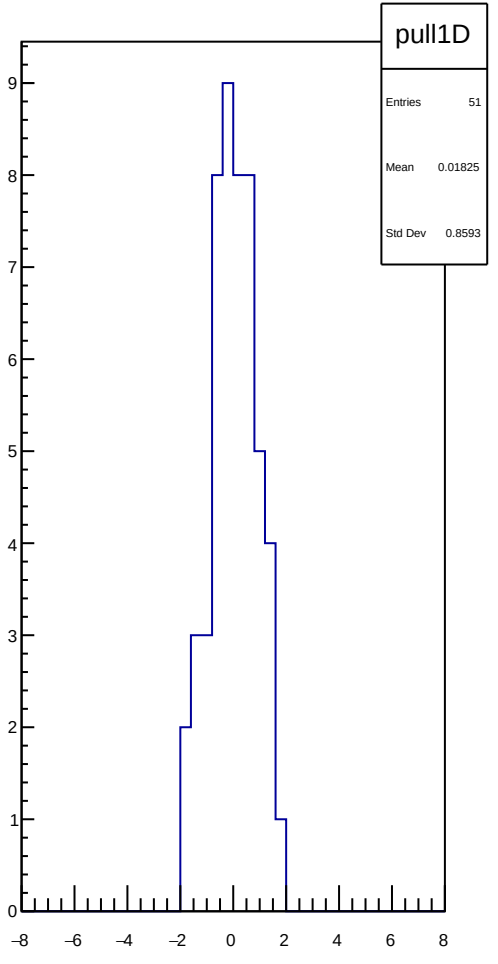
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

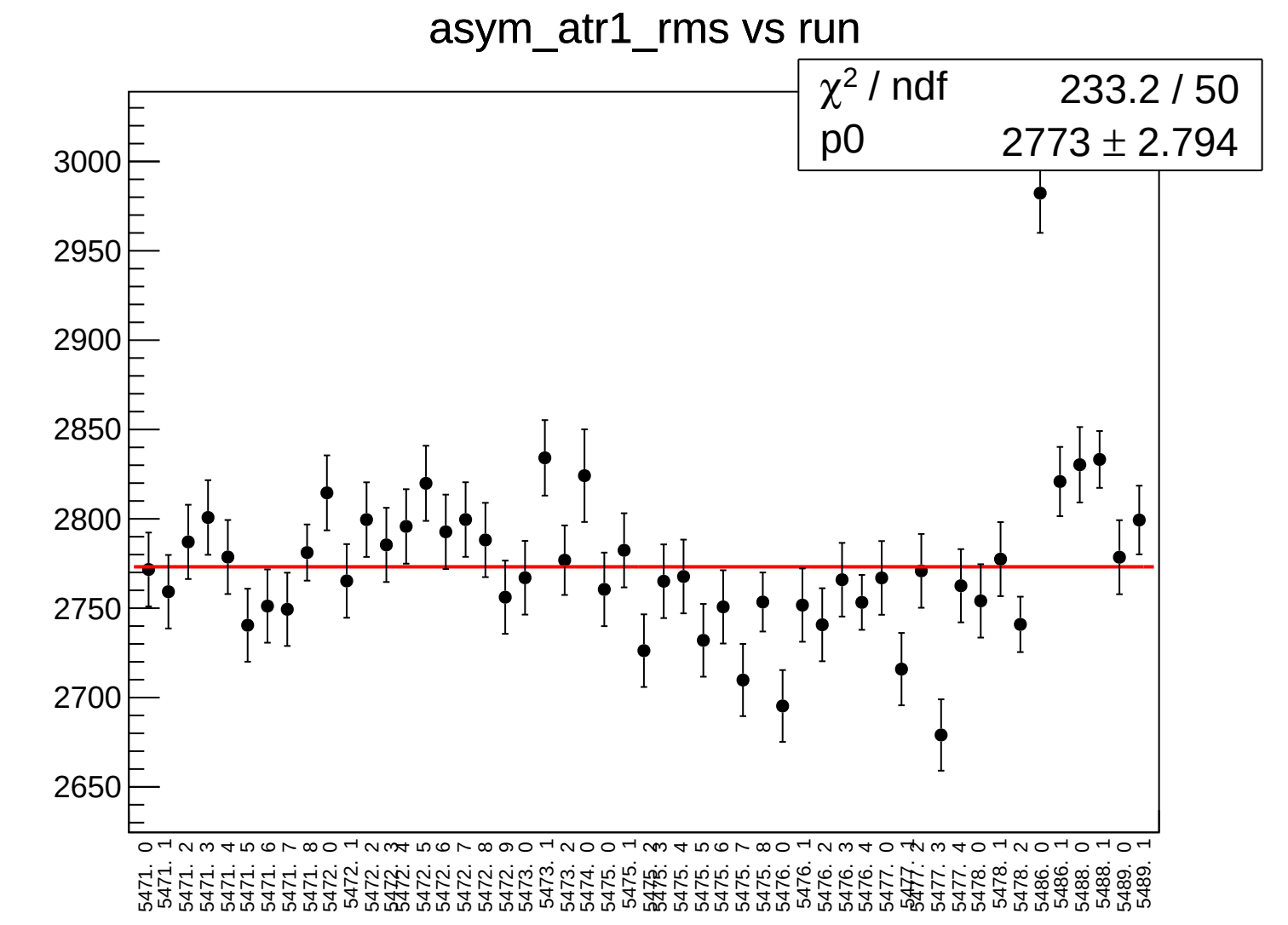

asym_atr1_correction_mean vs run
χ² / ndf 63.26 / 50
p0 −380.1± 993.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 38.83
Std Dev 23.7
2
1
0
−1
−2
−3

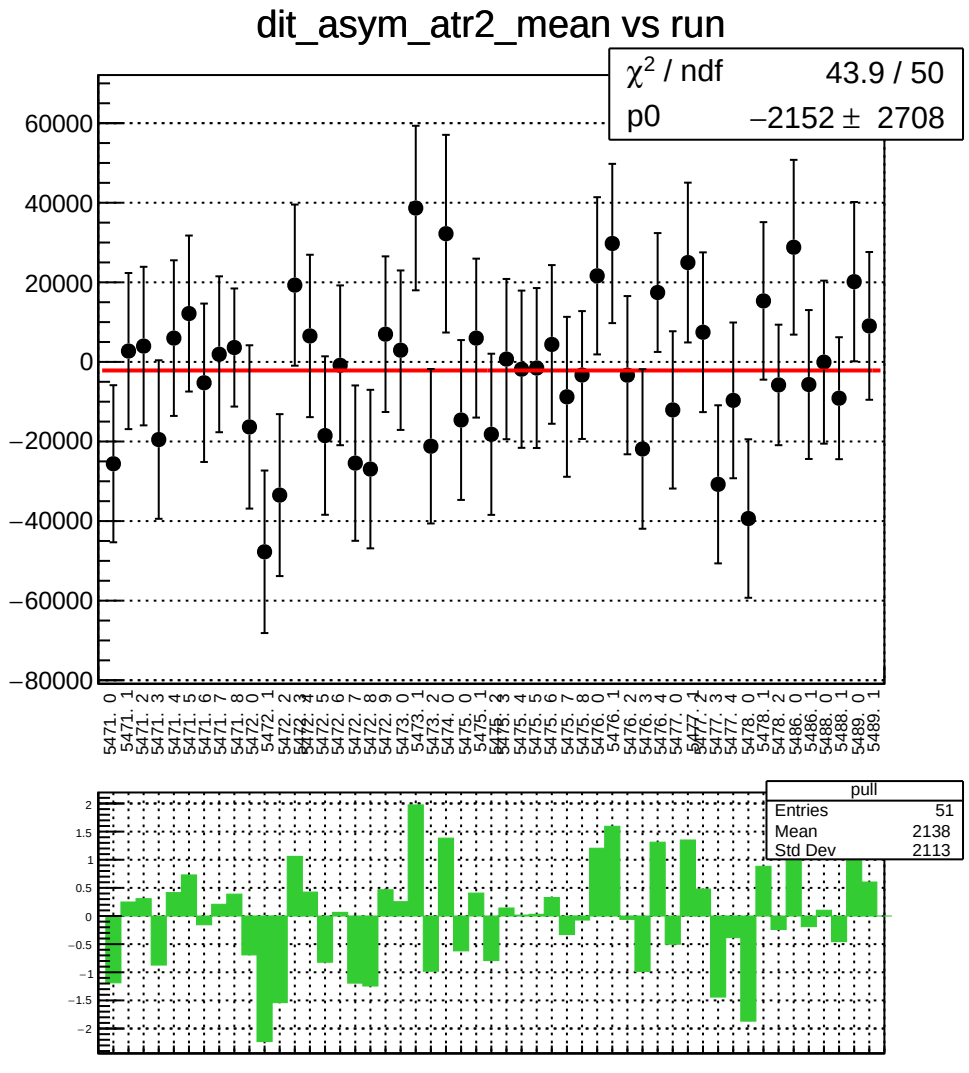

pull1D
Entries 51
Mean −0.02266
Std Dev 1.114
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

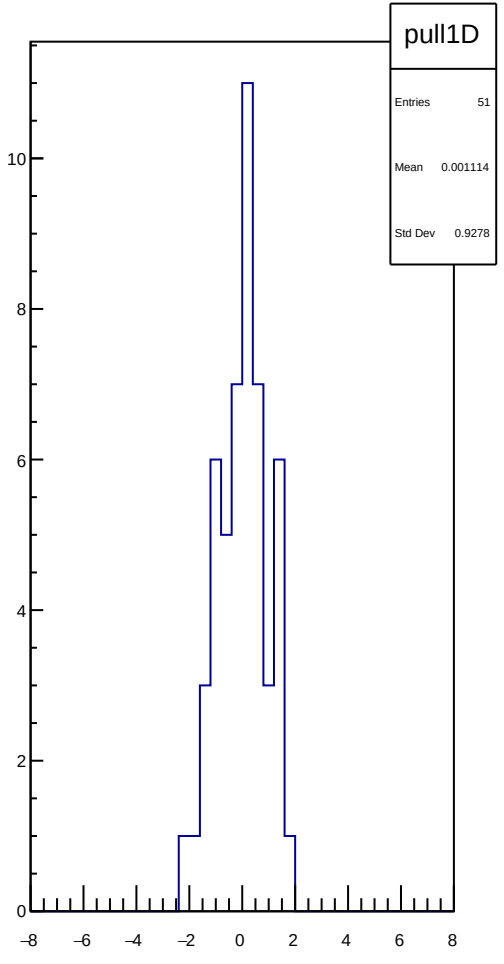

asym_atr1_correction_rms vs run
χ² / ndf 6405 / 50
p0 695.2 ± 0.7026
800
750
700
650
600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

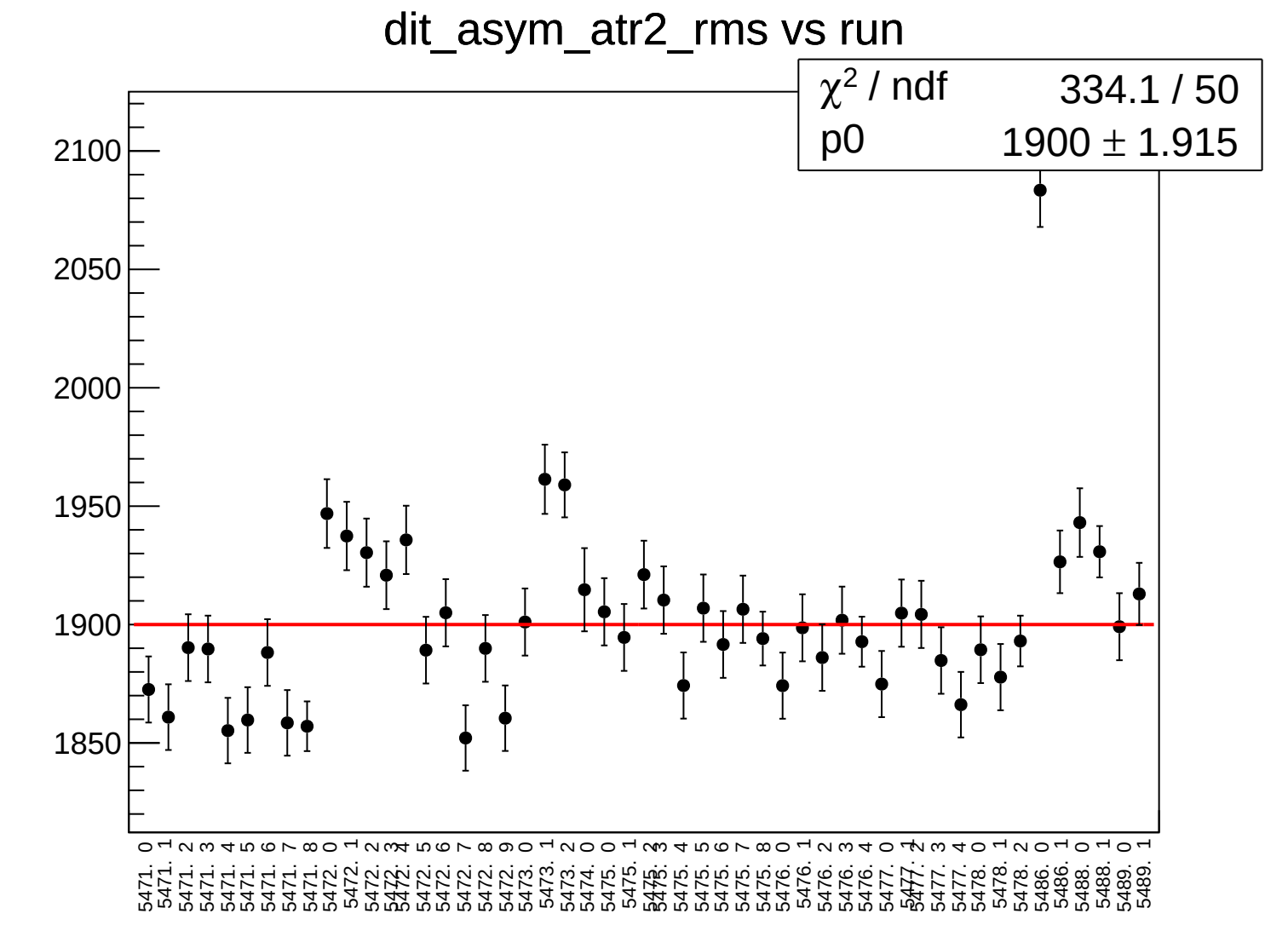

asym_atr1_mean vs run
χ^2 / ndf 37.67 / 50
p0 104.9 ± 3952
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 1.487
Std Dev 36.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

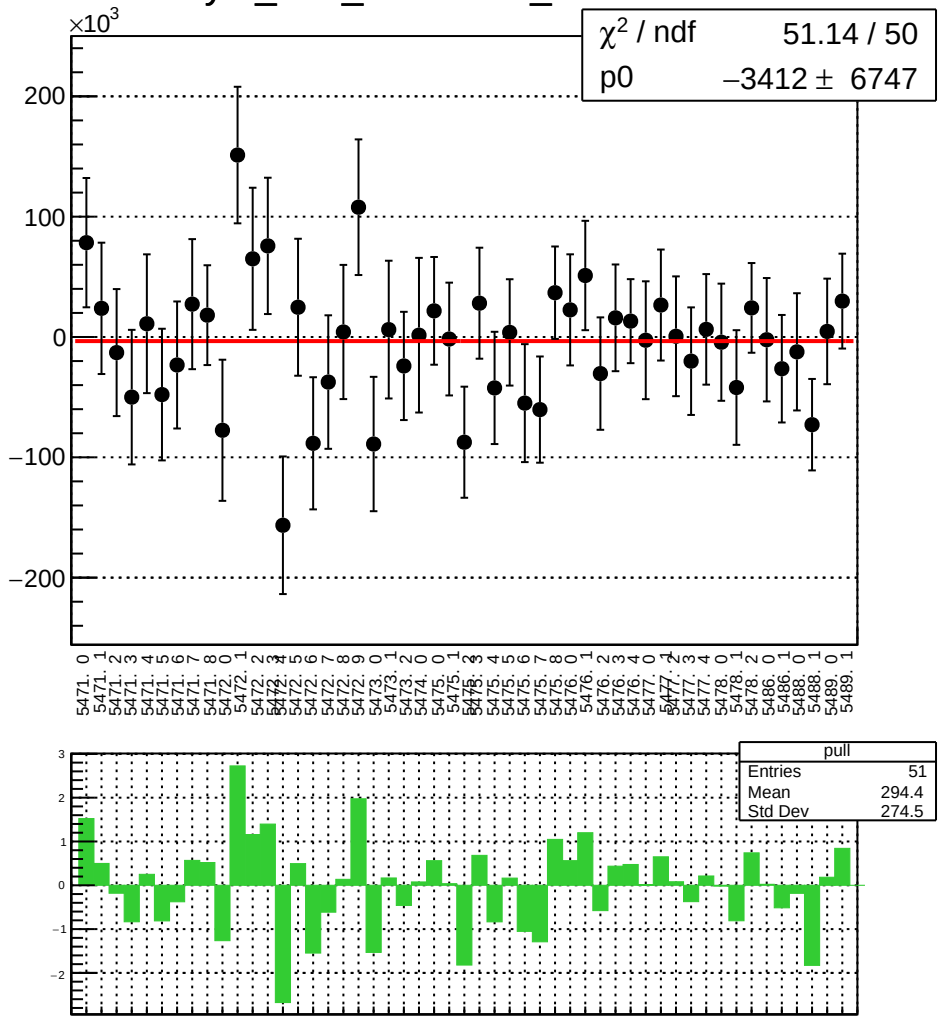

pull1D
Entries 51
Mean 0.01825
Std Dev 0.8593
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

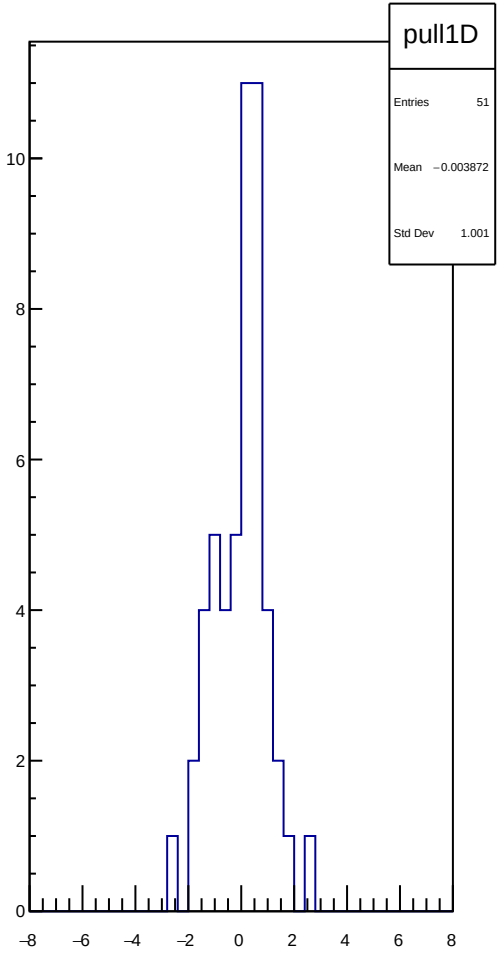

asym_atr1_rms vs run
χ² / ndf 233.2 / 50
p0 2773 ± 2.794
3000
2950
2900
2850
2800
2750
2700
2650
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

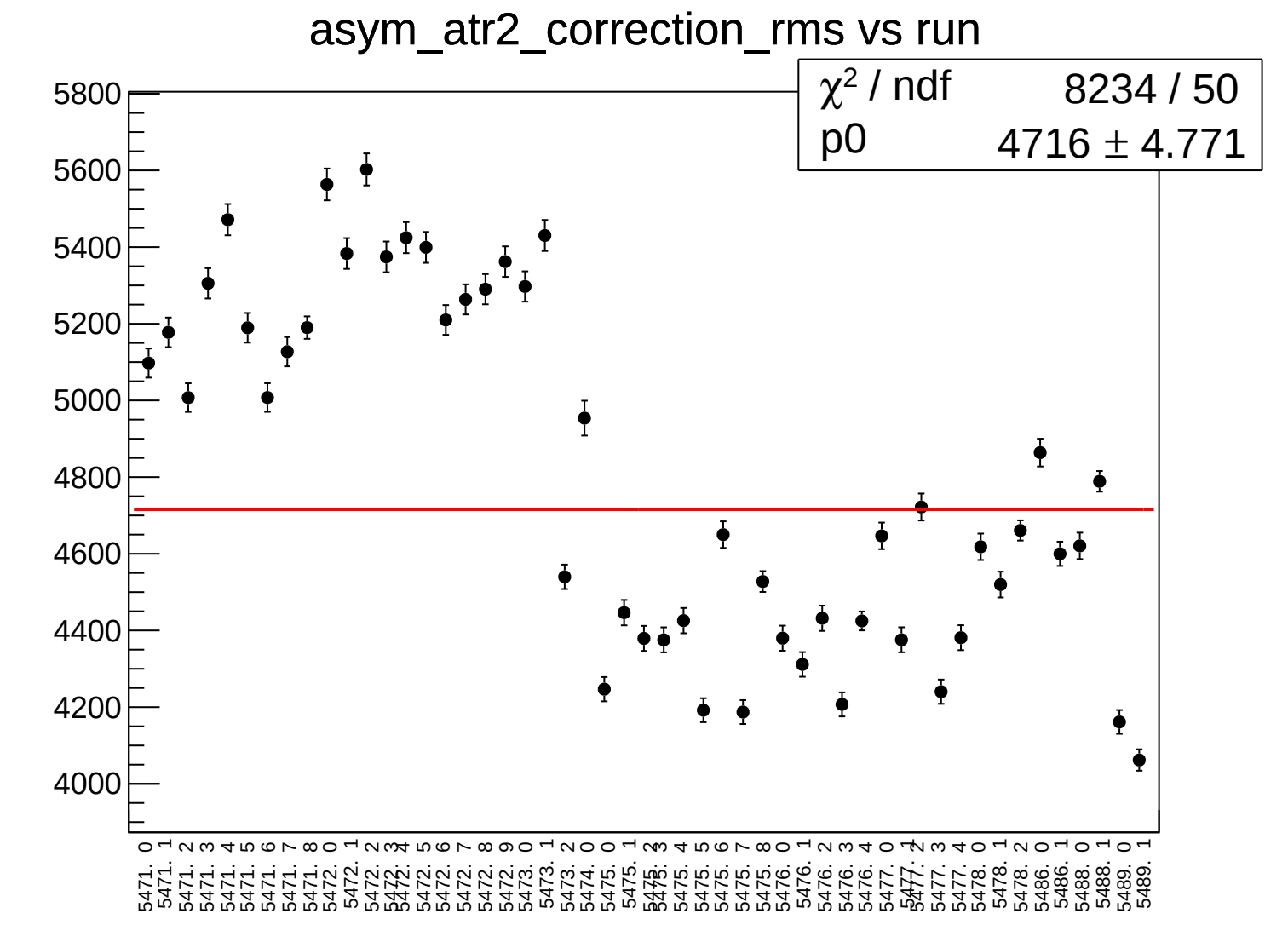

dit_asym_atr2_mean vs run
χ² / ndf 43.9 / 50
p0 −2152 ± 2708
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 2138
Std Dev 2113
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

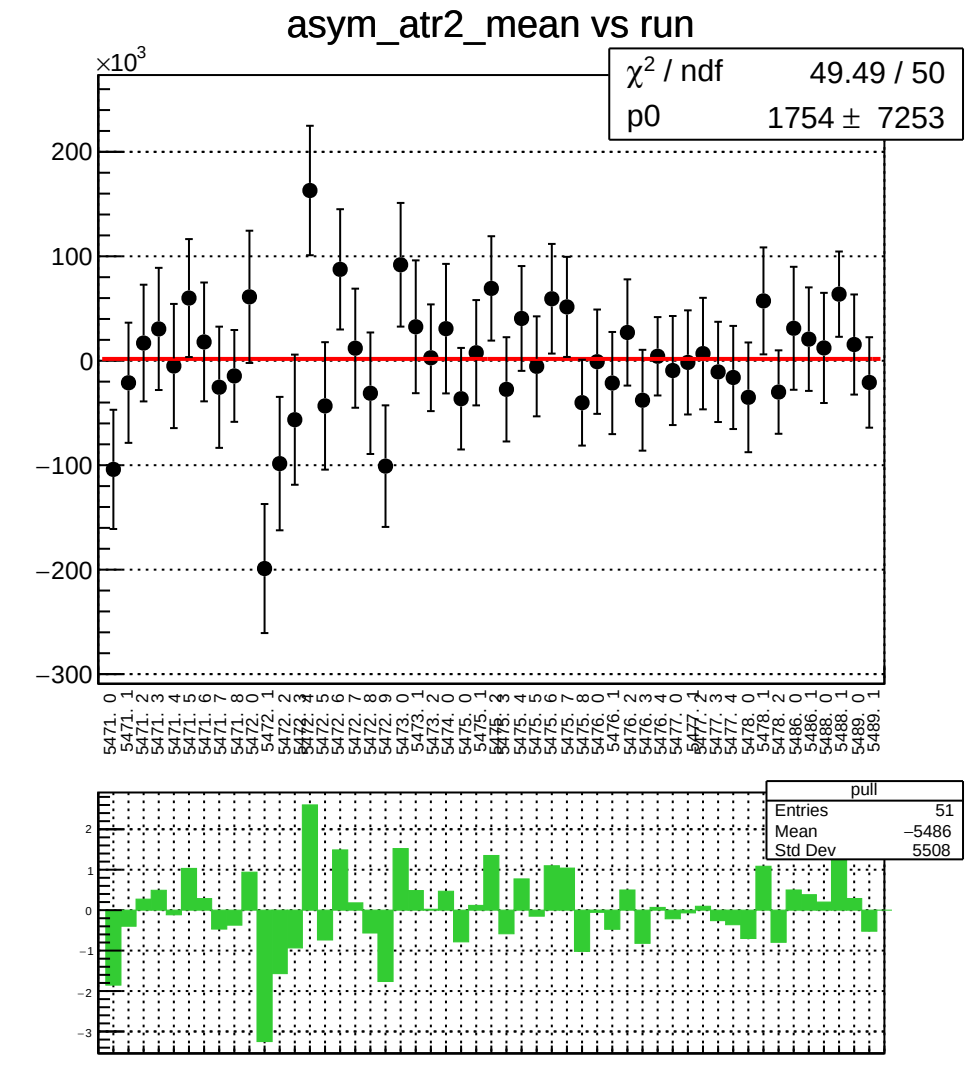

pull1D
Entries 51
Mean 0.001114
Std Dev 0.9278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

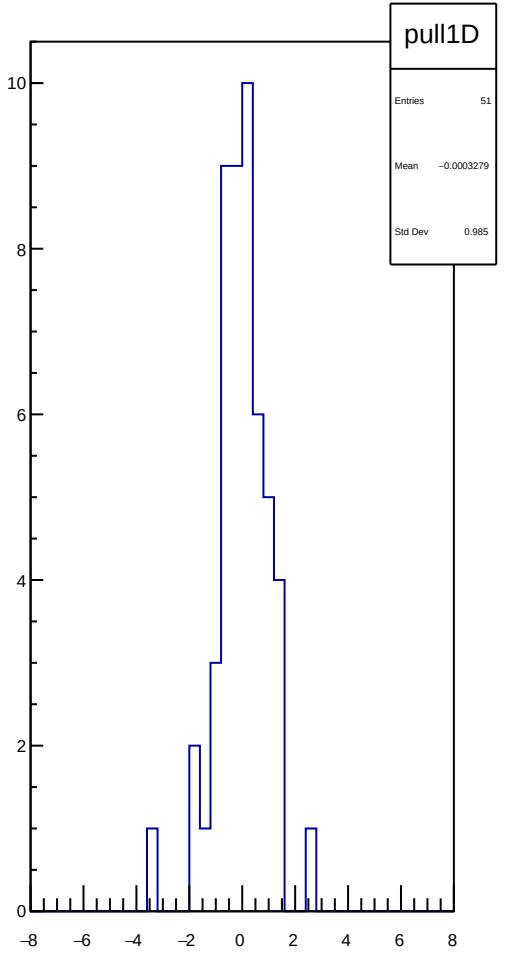

dit_asym_atr2_rms vs run
χ² / ndf 334.1 / 50
p0 1900 ± 1.915
2100
2050
2000
1950
1900
1850
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

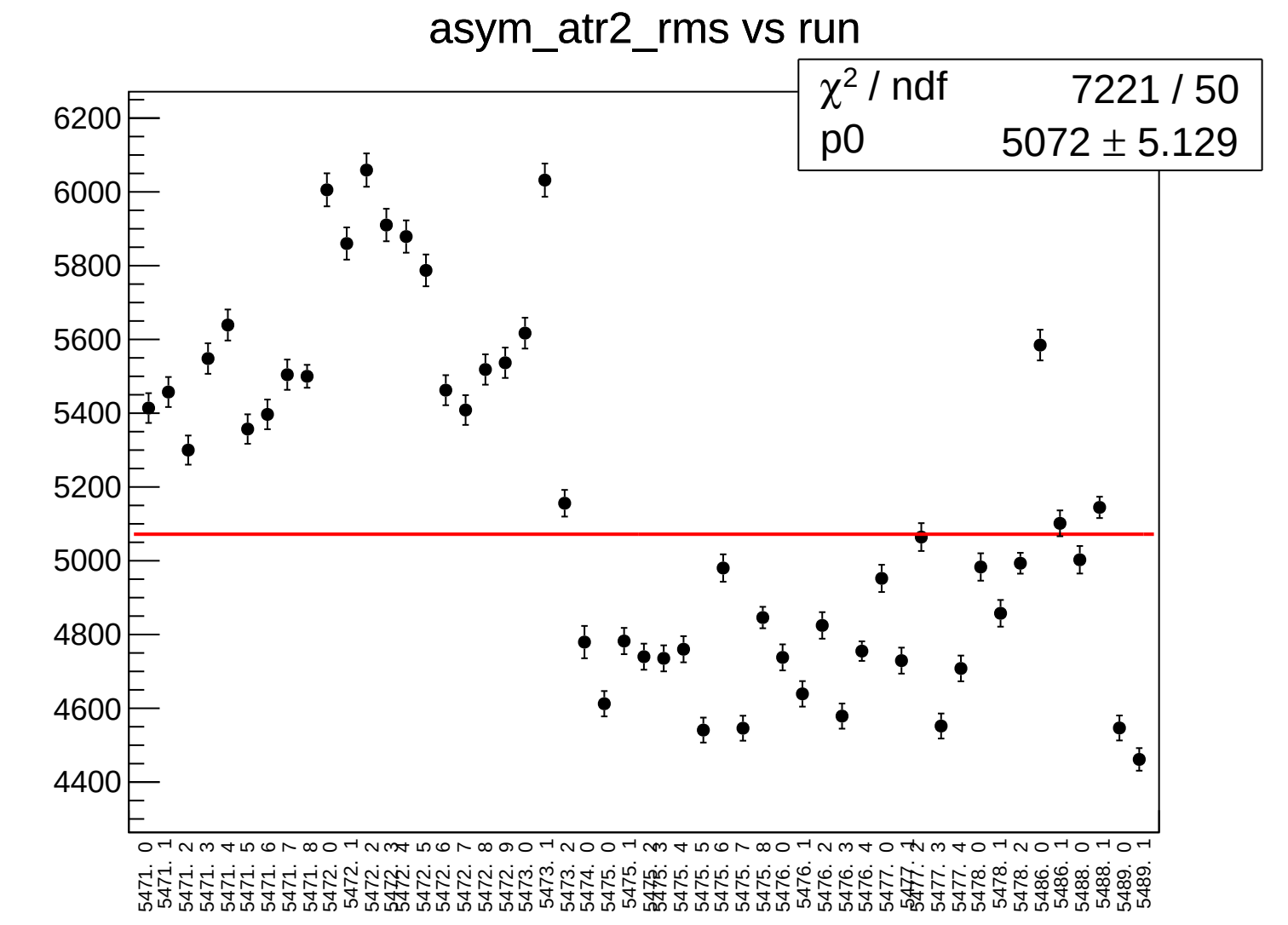

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 51.14 / 50
p0 −3412 ± 6747
200
100
0
−100
−200
pull
Entries 51
Mean 294.4
Std Dev 274.5
3
2
1
0
−1
−2

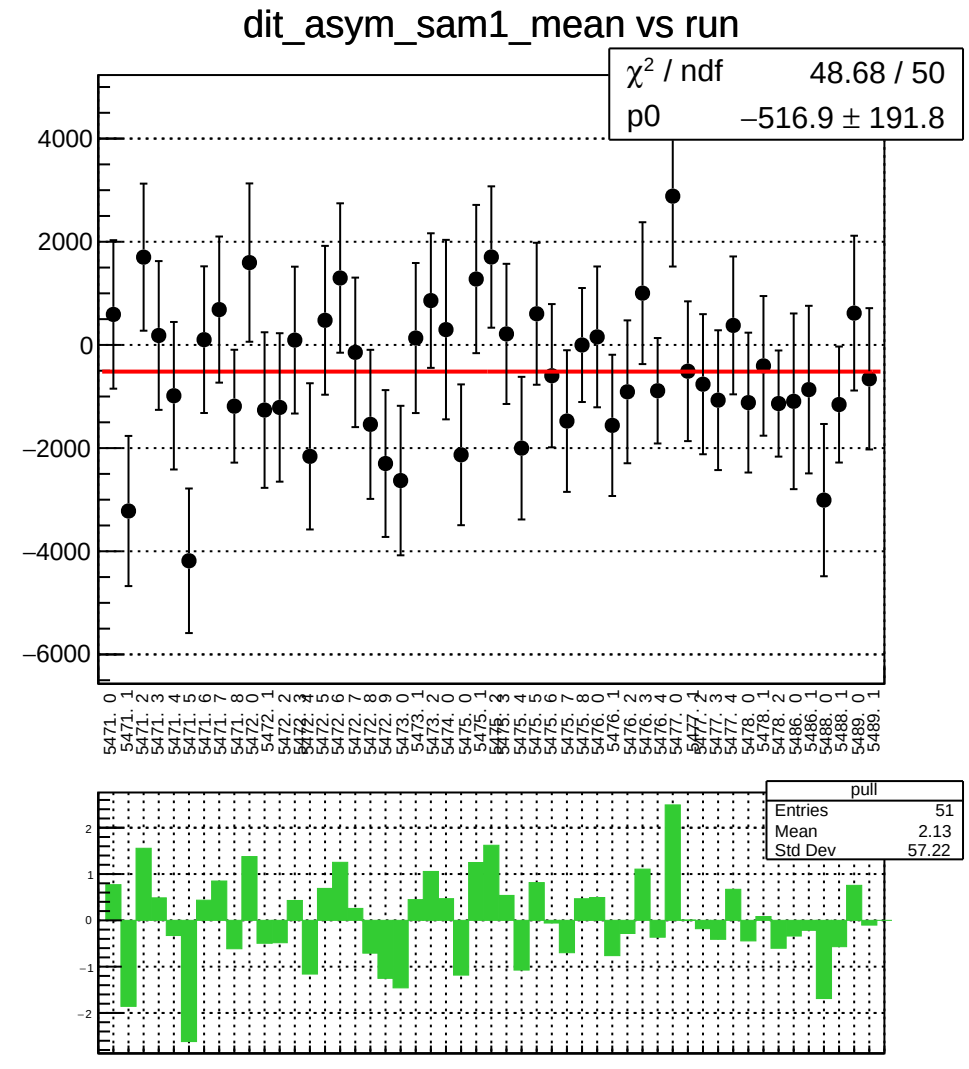

pull1D
Entries 51
Mean −0.003872
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

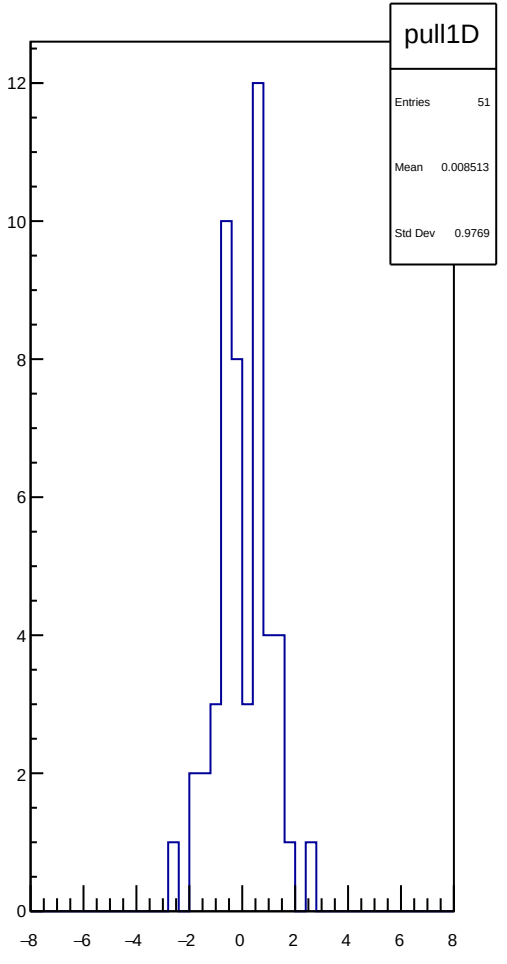

asym_atr2_correction_rms vs run
χ² / ndf 8234 / 50
p0 4716 ± 4.771
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

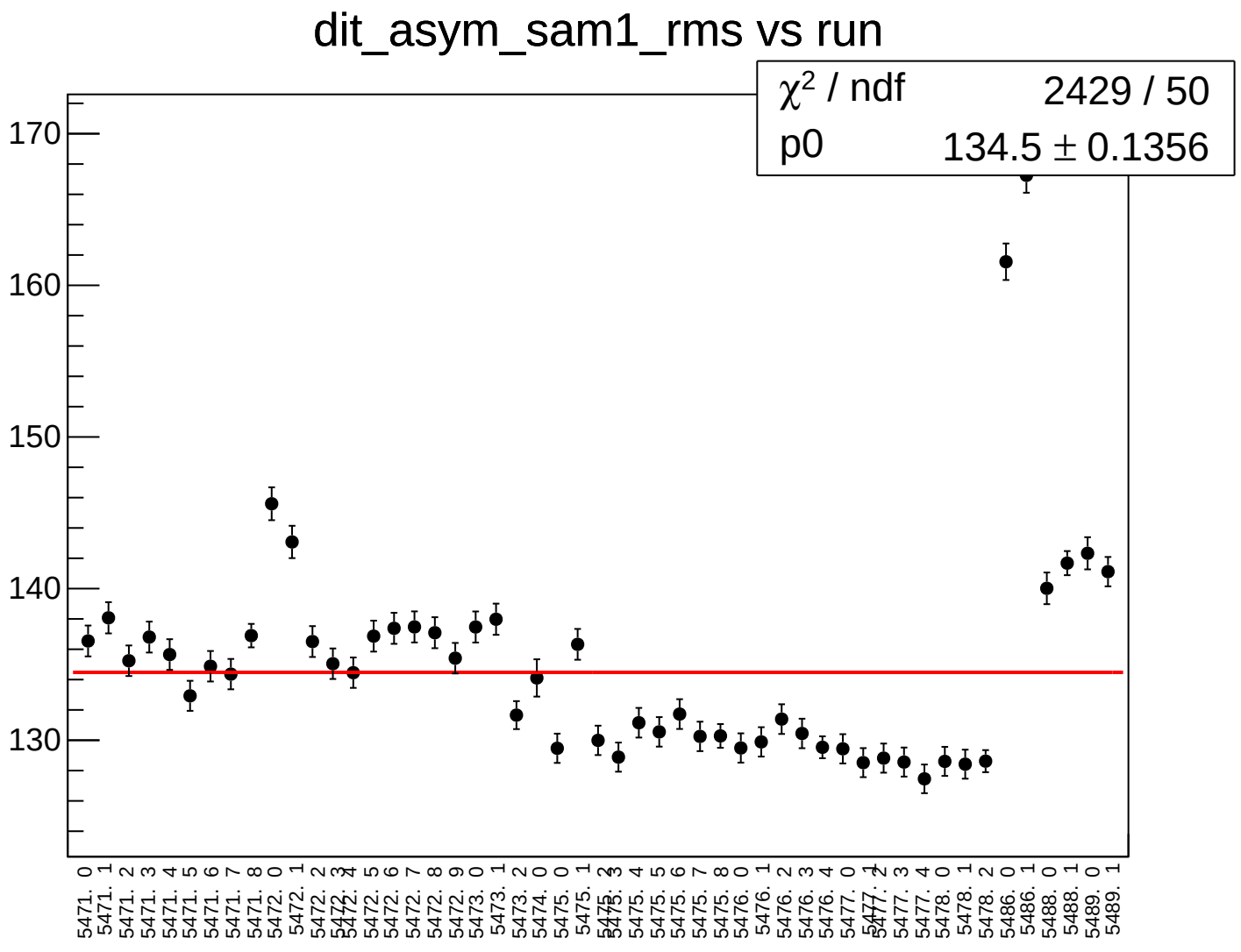

asym_atr2_mean vs run
×10^3
χ² / ndf 49.49 / 50
p0 1754 ± 7253
200
100
0
−100
−200
−300
pull
Entries 51
Mean −5486
Std Dev 5508
2
1
0
−1
−2
−3

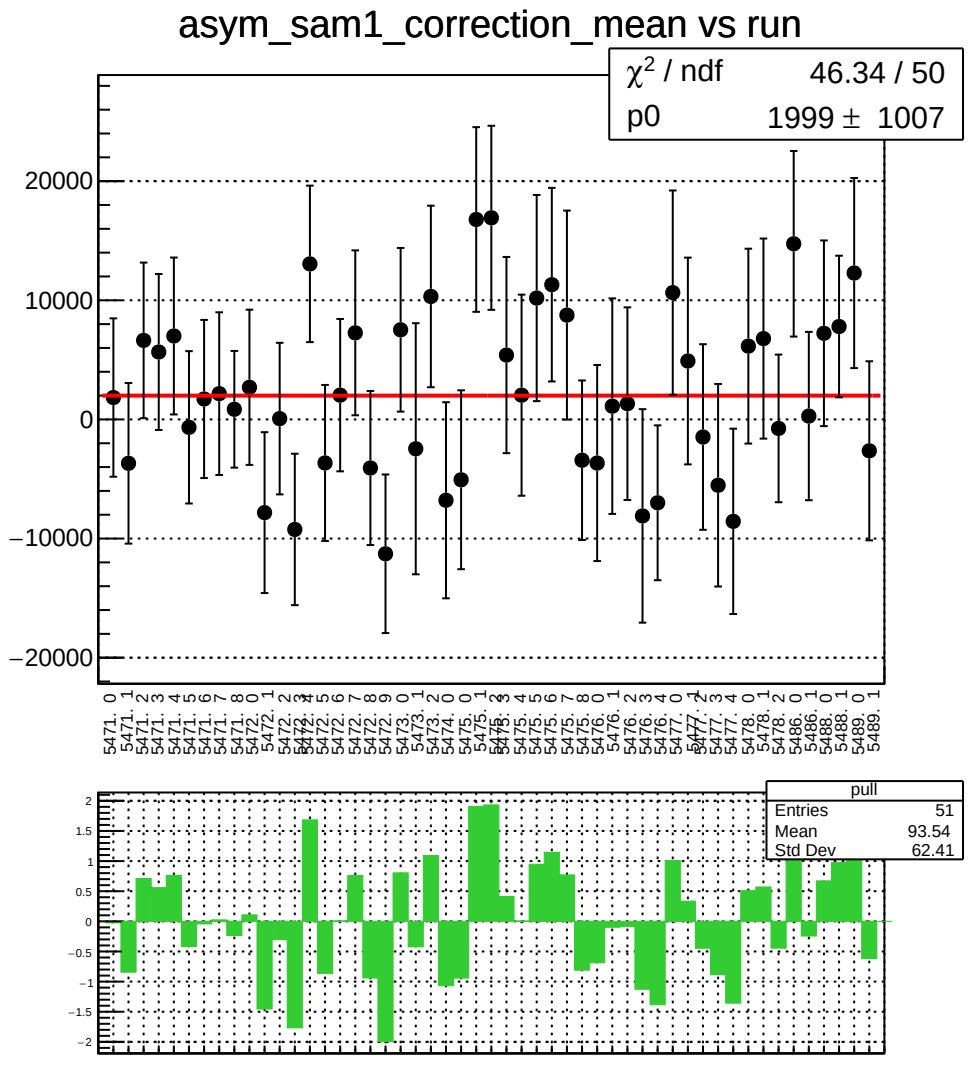

pull1D
Entries 51
Mean −0.0003279
Std Dev 0.985
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

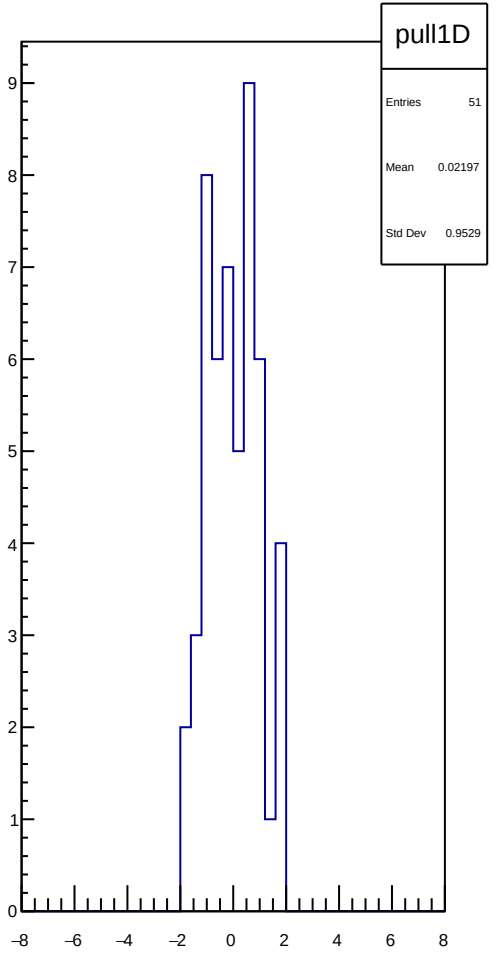

asym_atr2_rms vs run
χ² / ndf 7221 / 50
p0 5072 ± 5.129
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

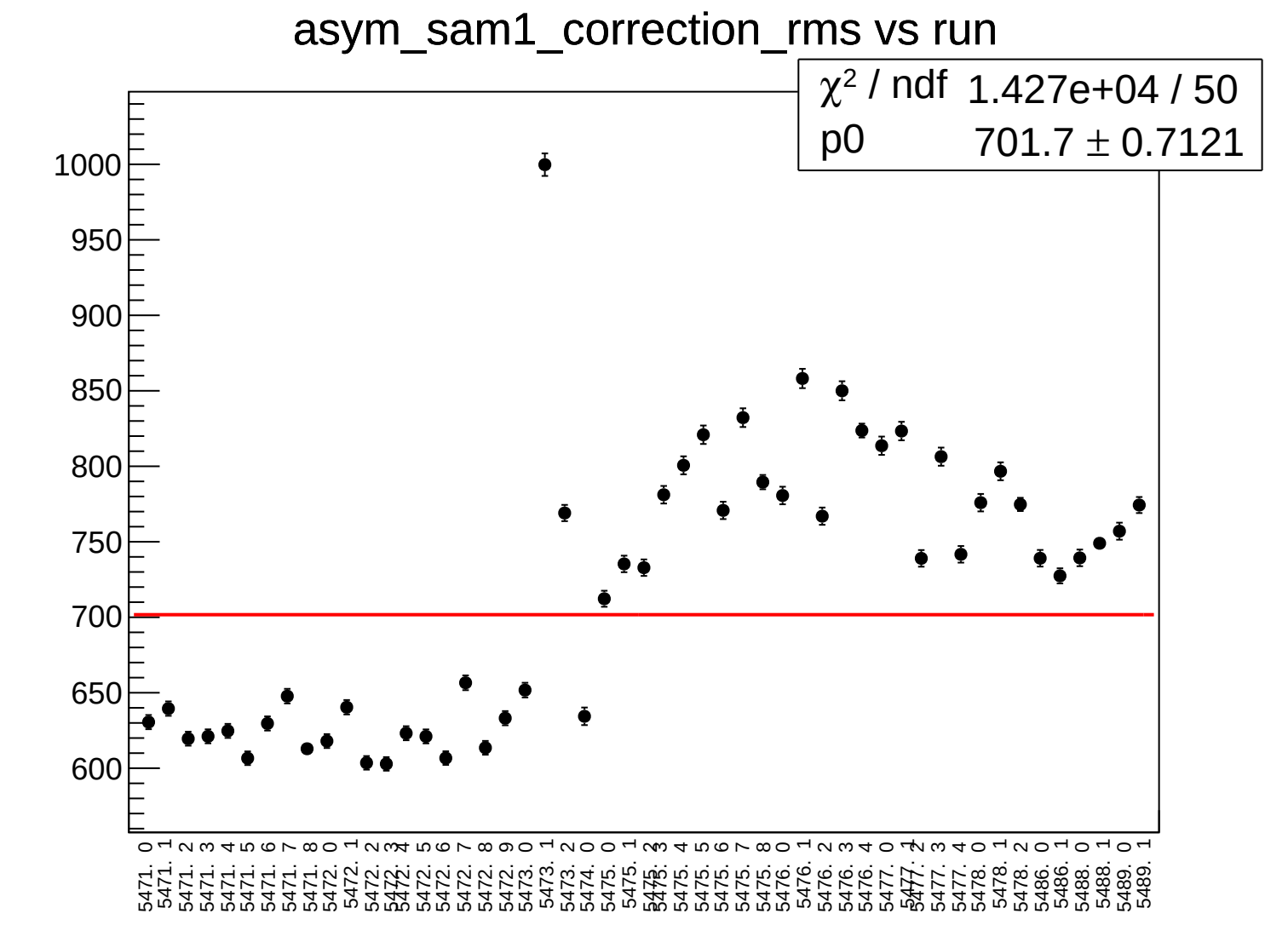

dit_asym_sam1_mean vs run
χ² / ndf 48.68 / 50
p0 −516.9 ± 191.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 2.13
Std Dev 57.22
2
1
0
−1
−2

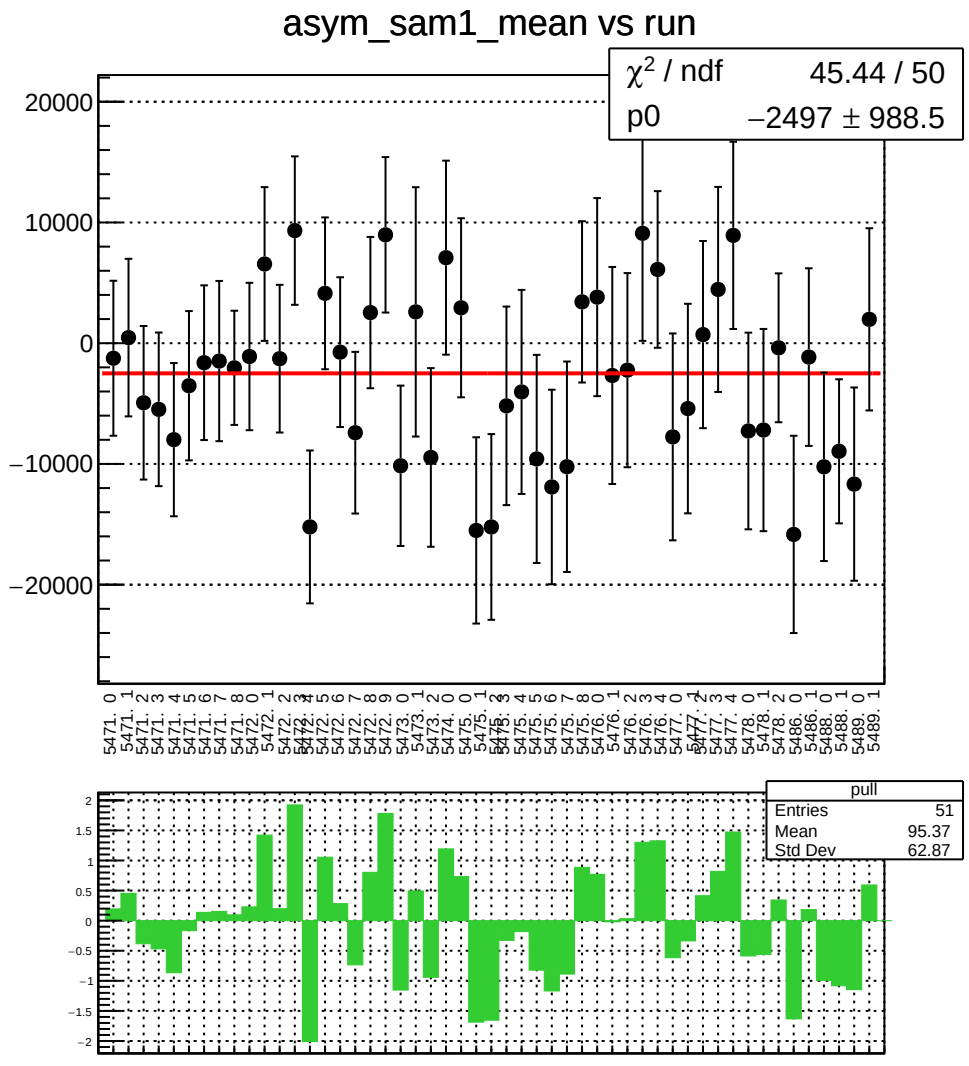

pull1D
Entries 51
Mean 0.008513
Std Dev 0.9769
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

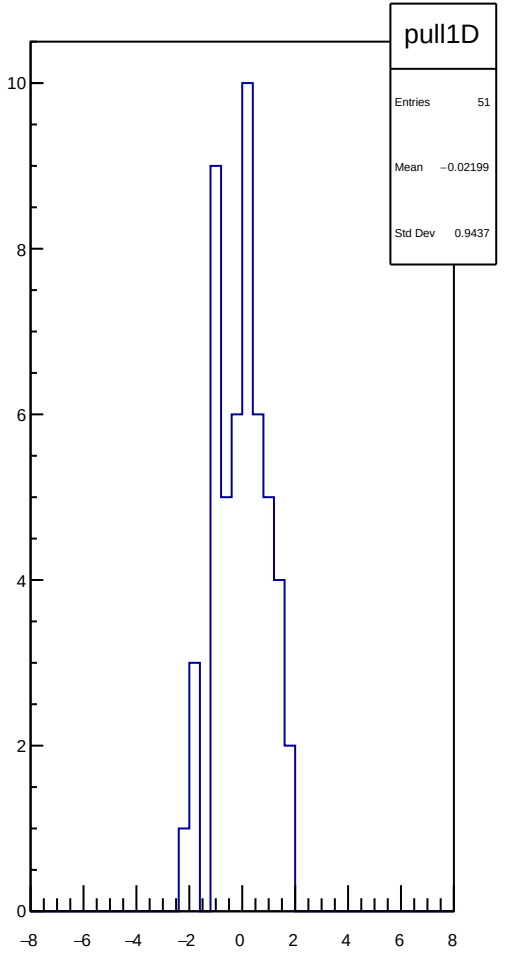

dit_asym_sam1_rms vs run
χ² / ndf 2429 / 50
p0 134.5 ± 0.1356
170
160
150
140
130
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

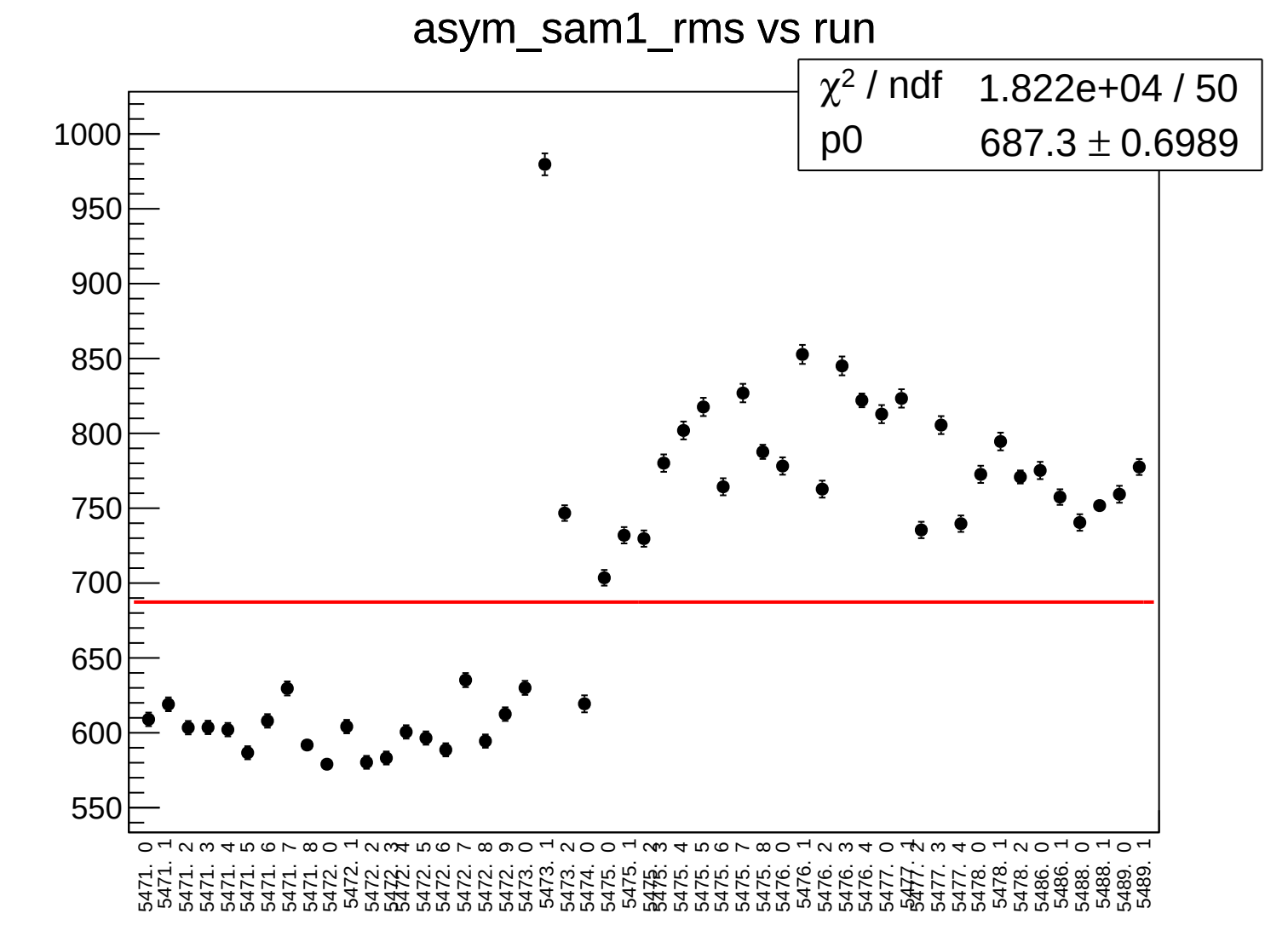

asym_sam1_correction_mean vs run
χ² / ndf 46.34 / 50
p0 1999 ± 1007
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 93.54
Std Dev 62.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

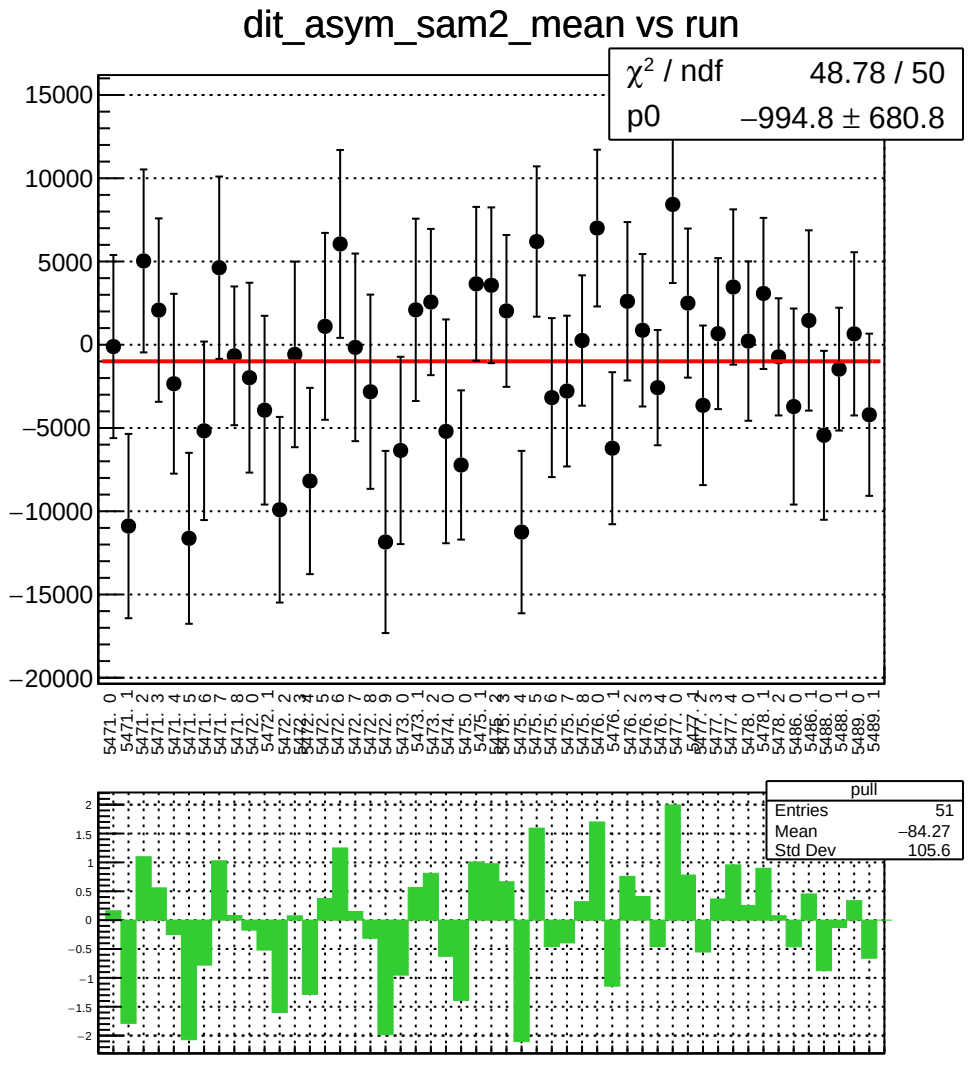

pull1D
Entries 51
Mean 0.02197
Std Dev 0.9529
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

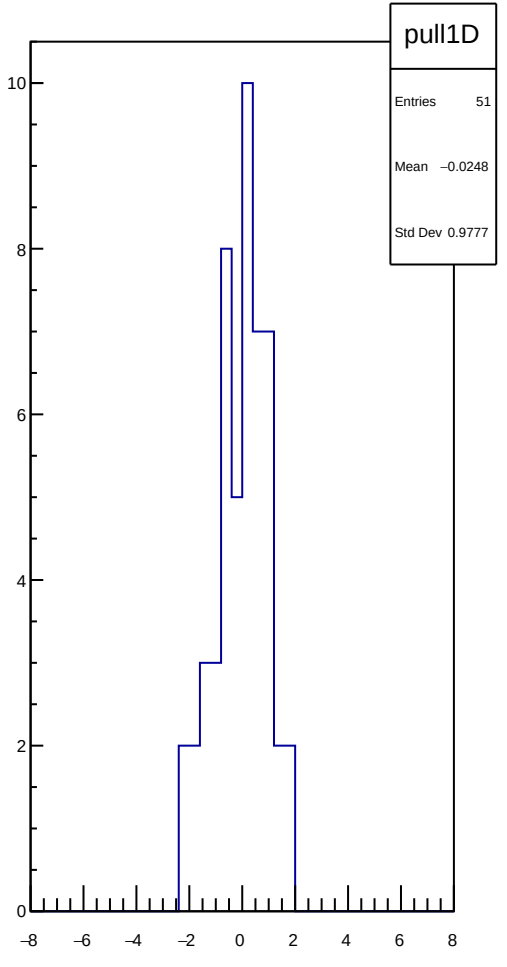

asym_sam1_correction_rms vs run
χ² / ndf 1.427e+04 / 50
p0 701.7 ± 0.7121
1000
950
900
850
800
750
700
650
600
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

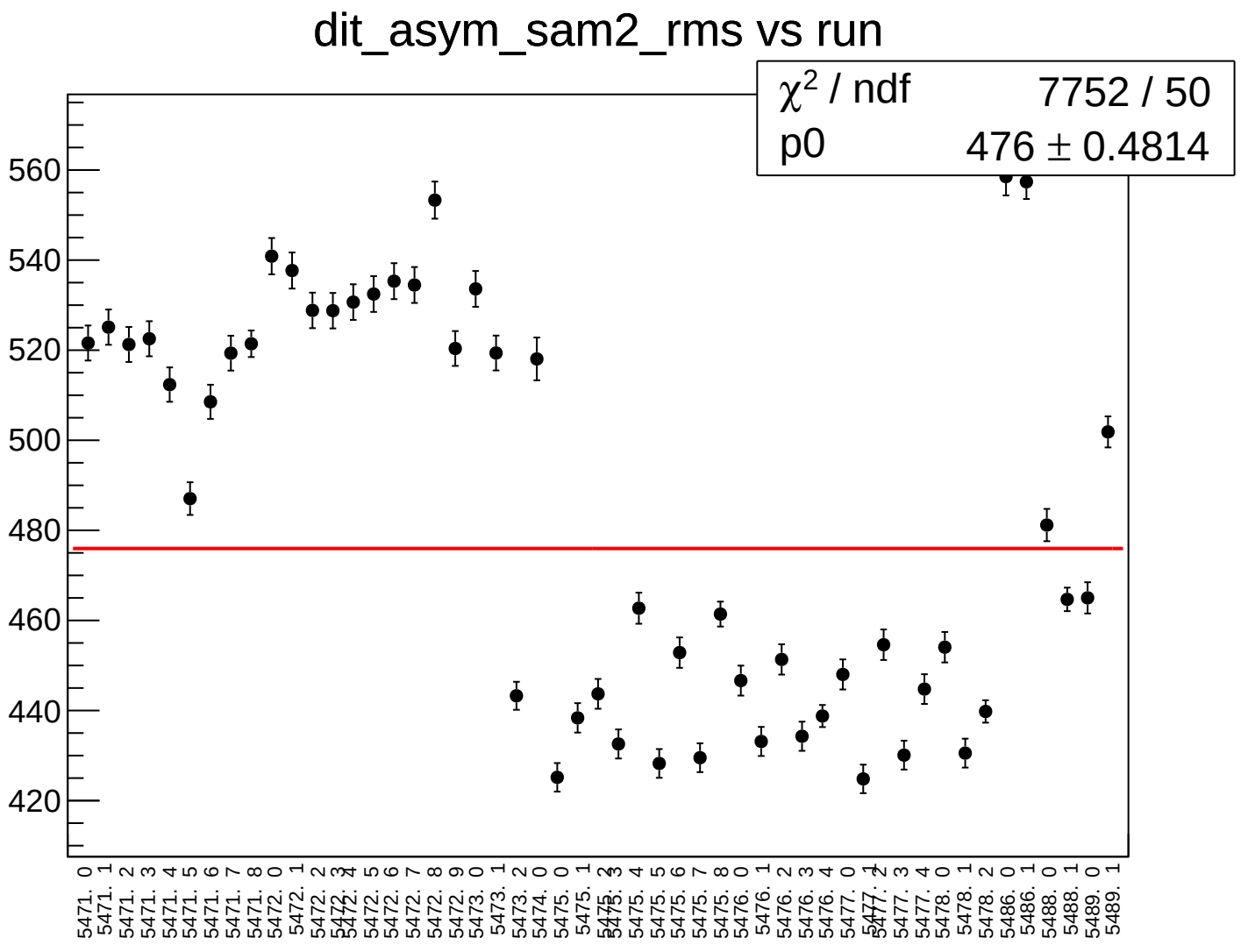

asym_sam1_mean vs run
χ² / ndf 45.44 / 50
p0 −2497 ± 988.5
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 95.37
Std Dev 62.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

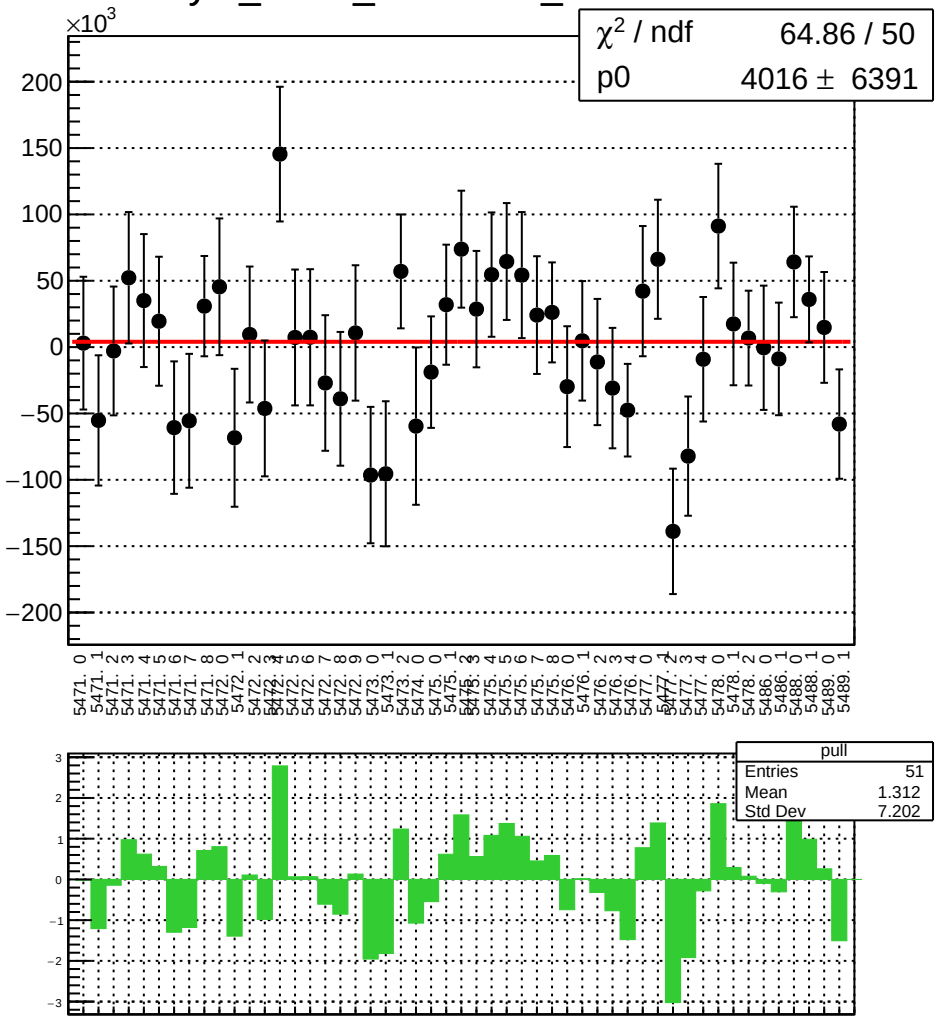

pull1D
Entries 51
Mean −0.02199
Std Dev 0.9437
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

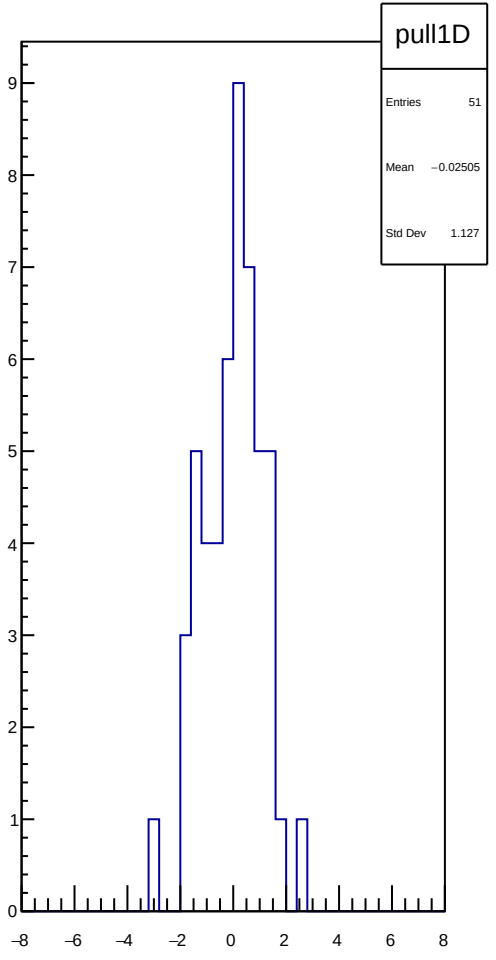

asym_sam1_rms vs run
χ² / ndf 1.822e+04 / 50
p0 687.3 ± 0.6989
1000
950
900
850
800
750
700
650
600
550
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

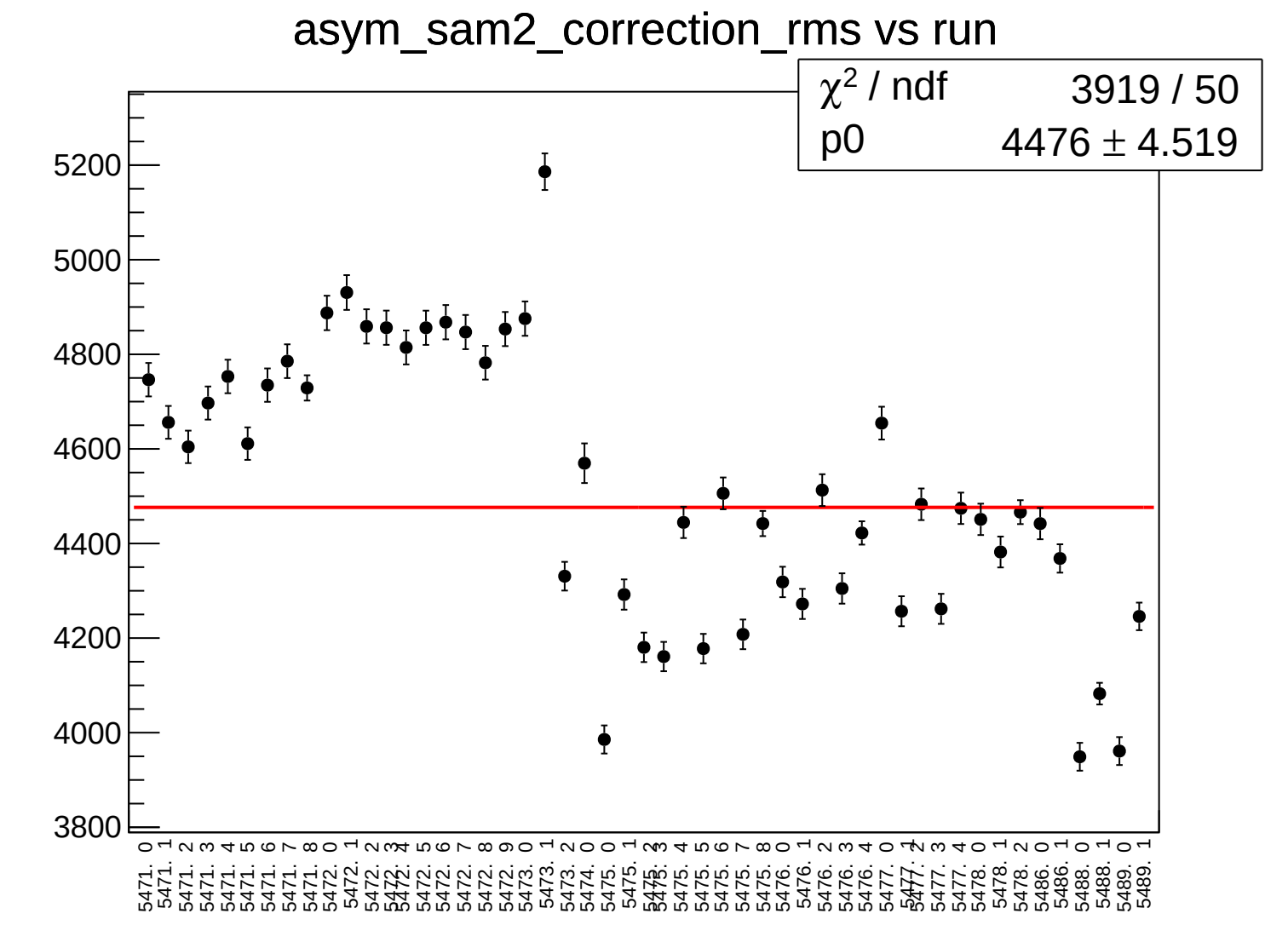

dit_asym_sam2_mean vs run
χ² / ndf 48.78 / 50
p0 −994.8 ± 680.8
pull
Entries 51
Mean −84.27
Std Dev 105.6

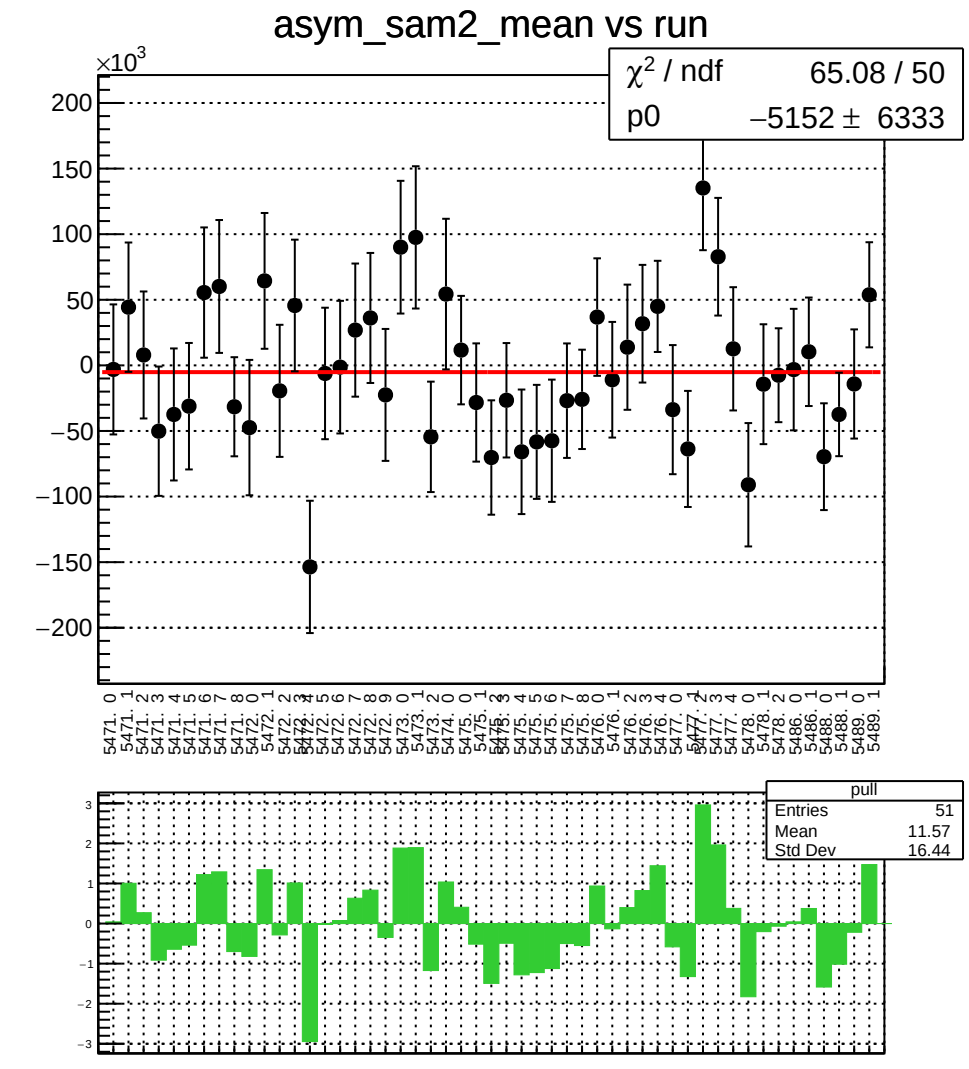

pull1D
Entries 51
Mean −0.0248
Std Dev 0.9777

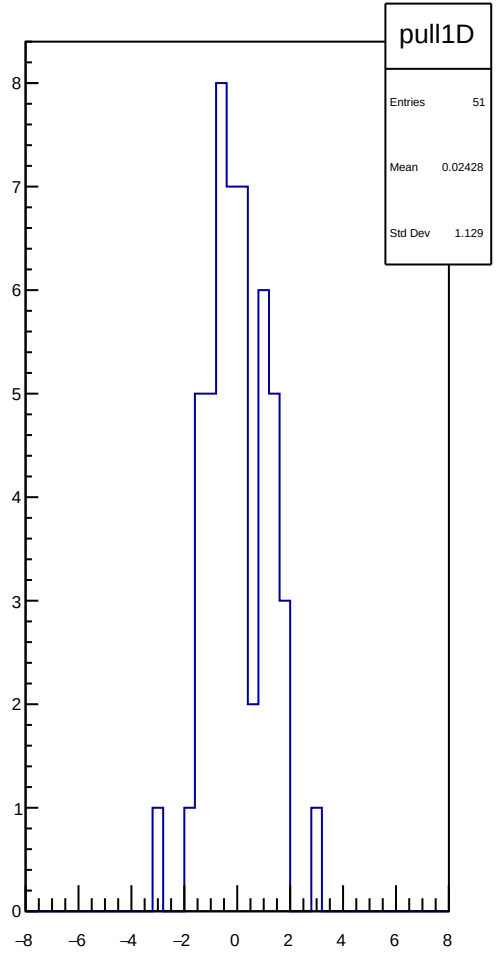

dit_asym_sam2_rms vs run
χ² / ndf 7752 / 50
p0 476 ± 0.4814
560
540
520
500
480
460
440
420
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

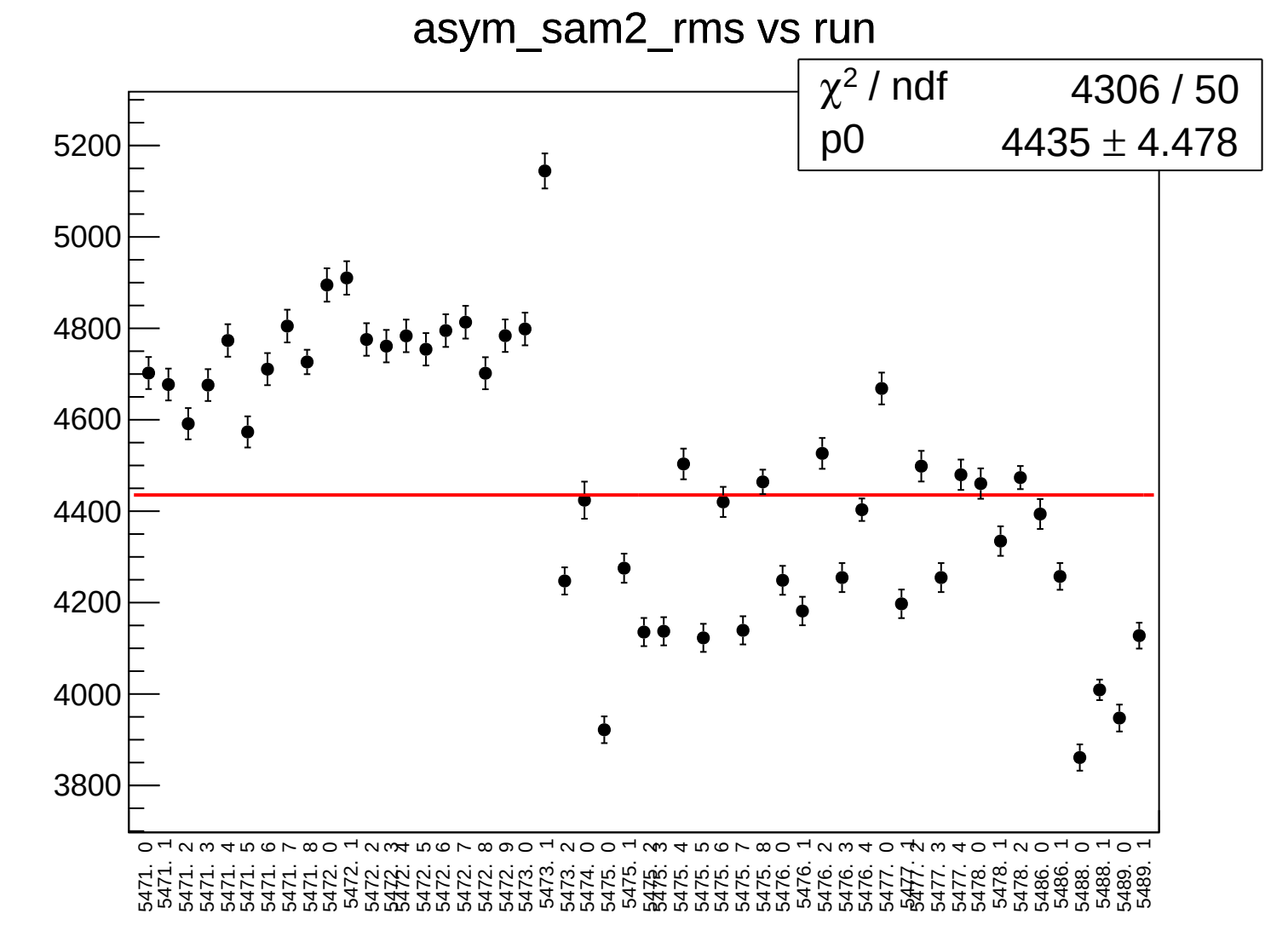

asym_sam2_correction_mean vs run
×10^3
χ^2 / ndf 64.86 / 50
p0 4016 ± 6391
pull
Entries 51
Mean 1.312
Std Dev 7.202

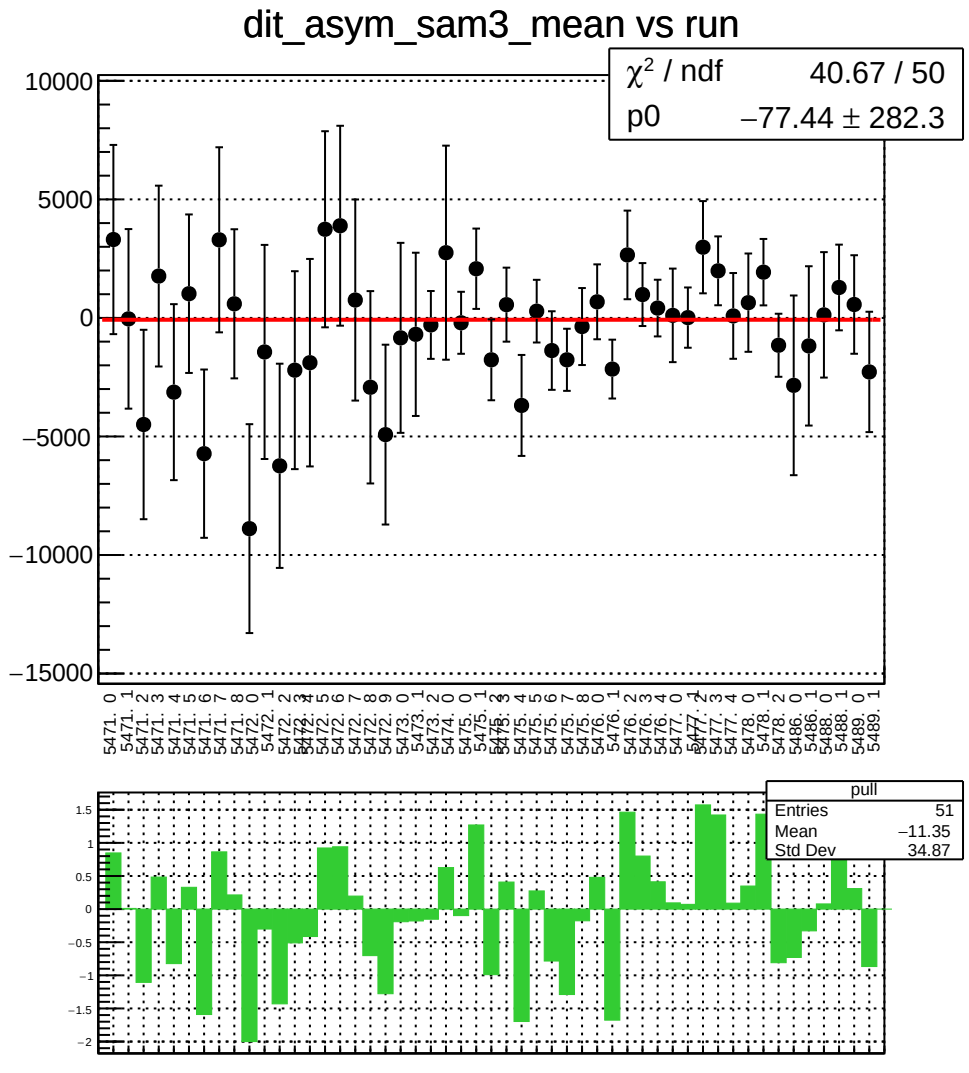

pull1D
Entries 51
Mean −0.02505
Std Dev 1.127

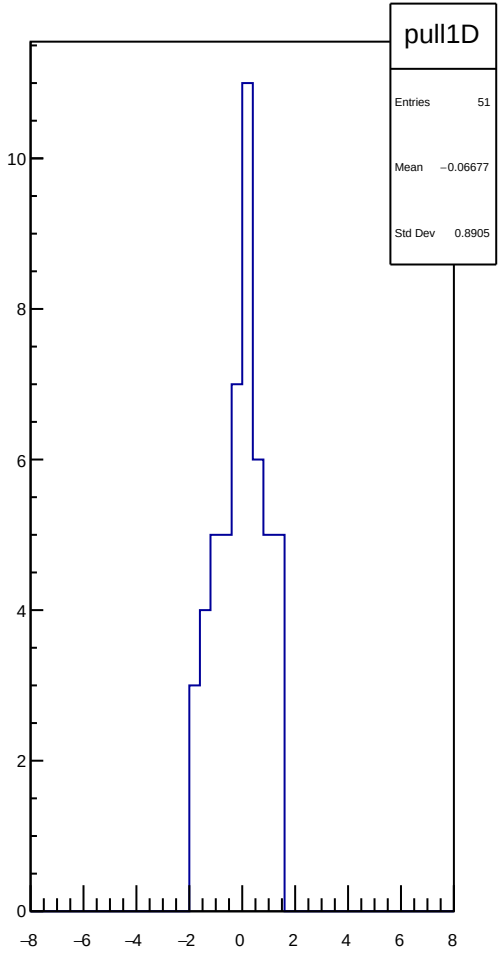

asym_sam2_correction_rms vs run
χ² / ndf 3919 / 50
p0 4476 ± 4.519
5200
5000
4800
4600
4400
4200
4000
3800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

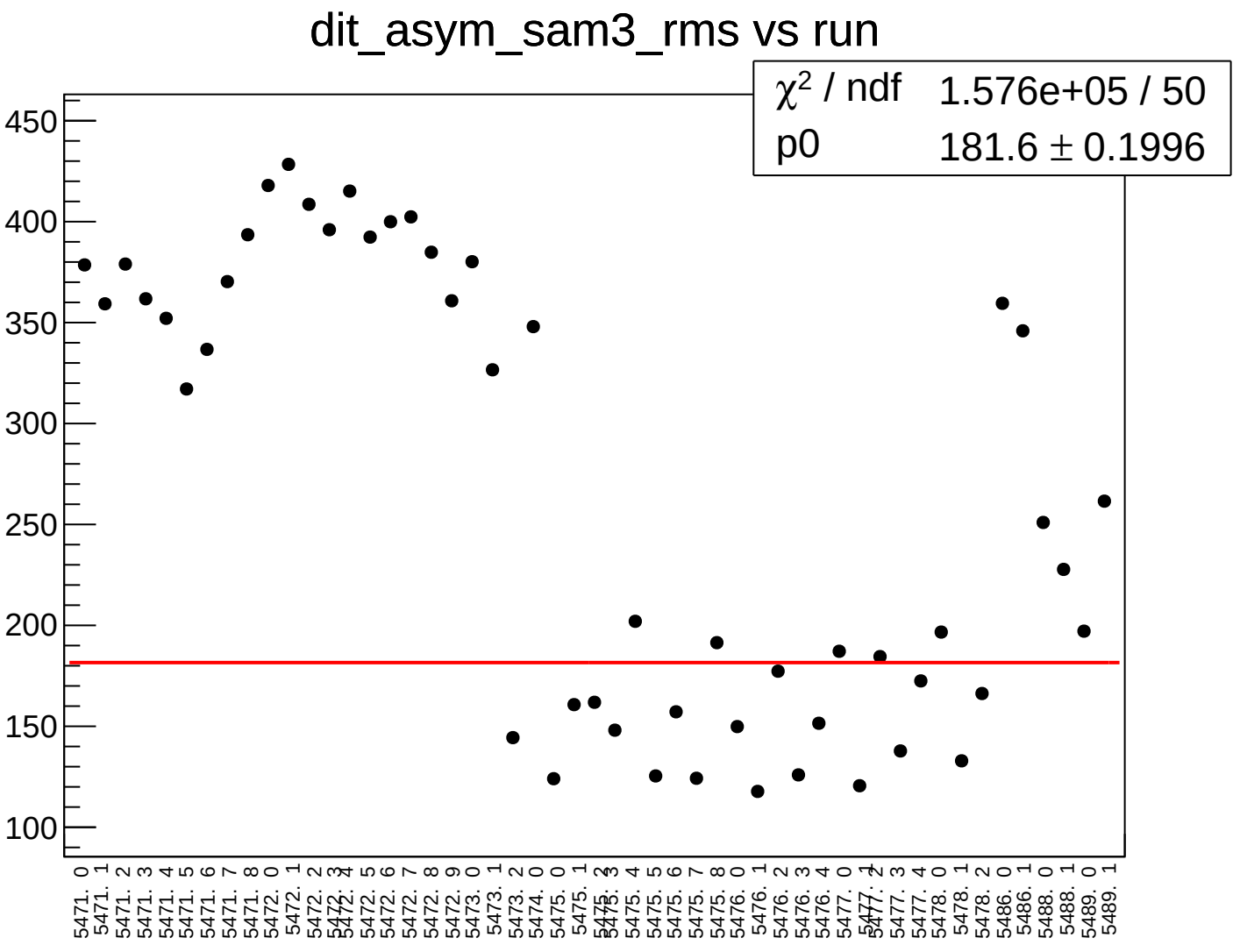

asym_sam2_mean vs run
×10^3
χ² / ndf 65.08 / 50
p0 −5152 ± 6333
pull
Entries 51
Mean 11.57
Std Dev 16.44

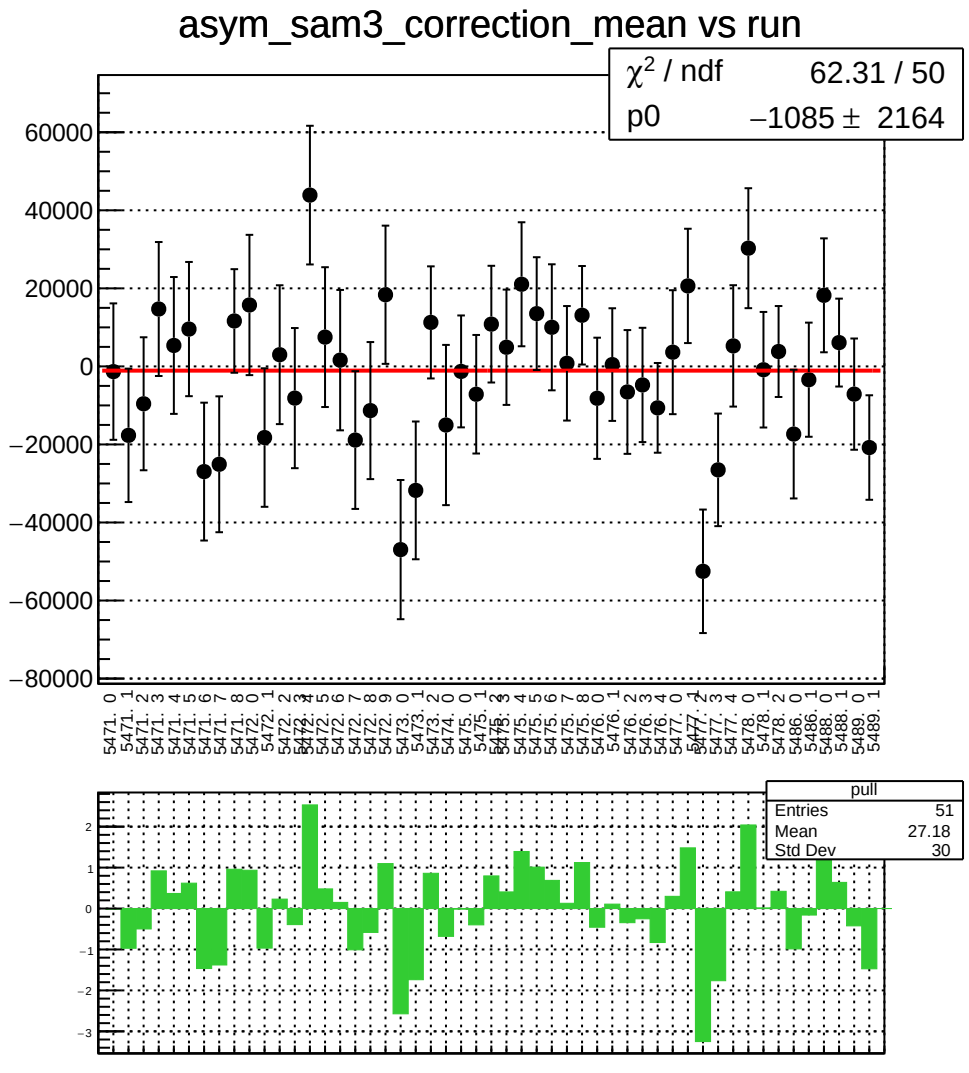

pull1D
Entries 51
Mean 0.02428
Std Dev 1.129

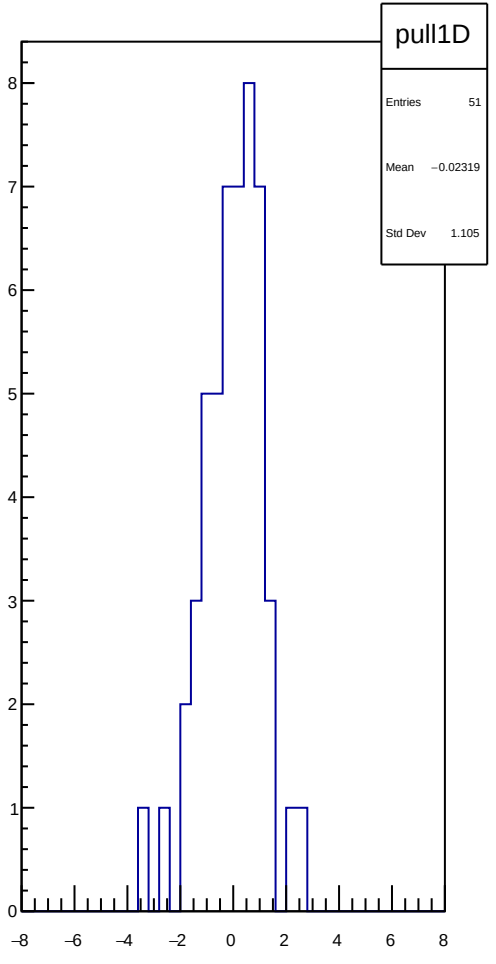

asym_sam2_rms vs run
χ² / ndf 4306 / 50
p0 4435 ± 4.478
5200
5000
4800
4600
4400
4200
4000
3800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

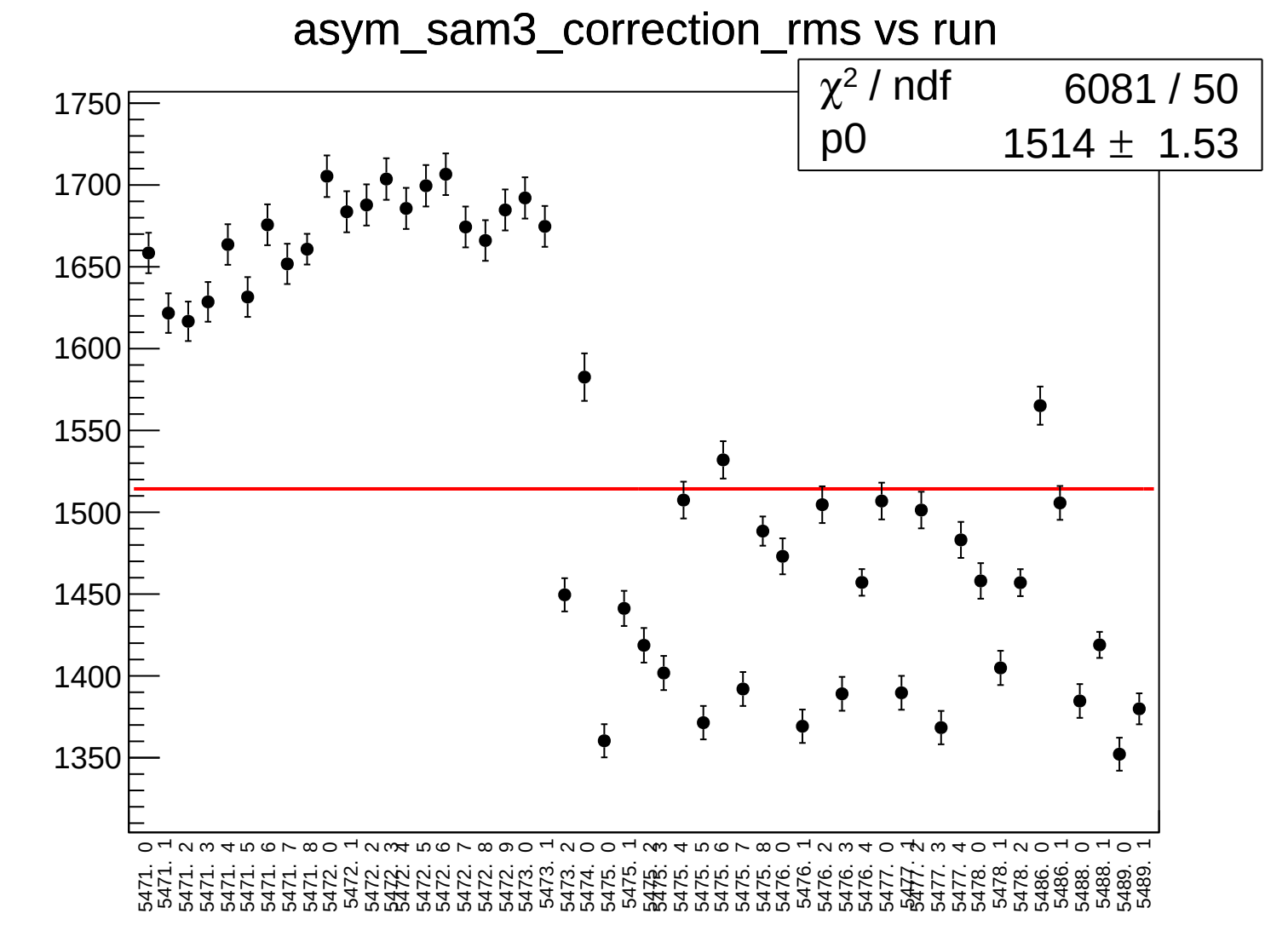

dit_asym_sam3_mean vs run
χ² / ndf 40.67 / 50
p0 −77.44 ± 282.3
pull
Entries 51
Mean −11.35
Std Dev 34.87

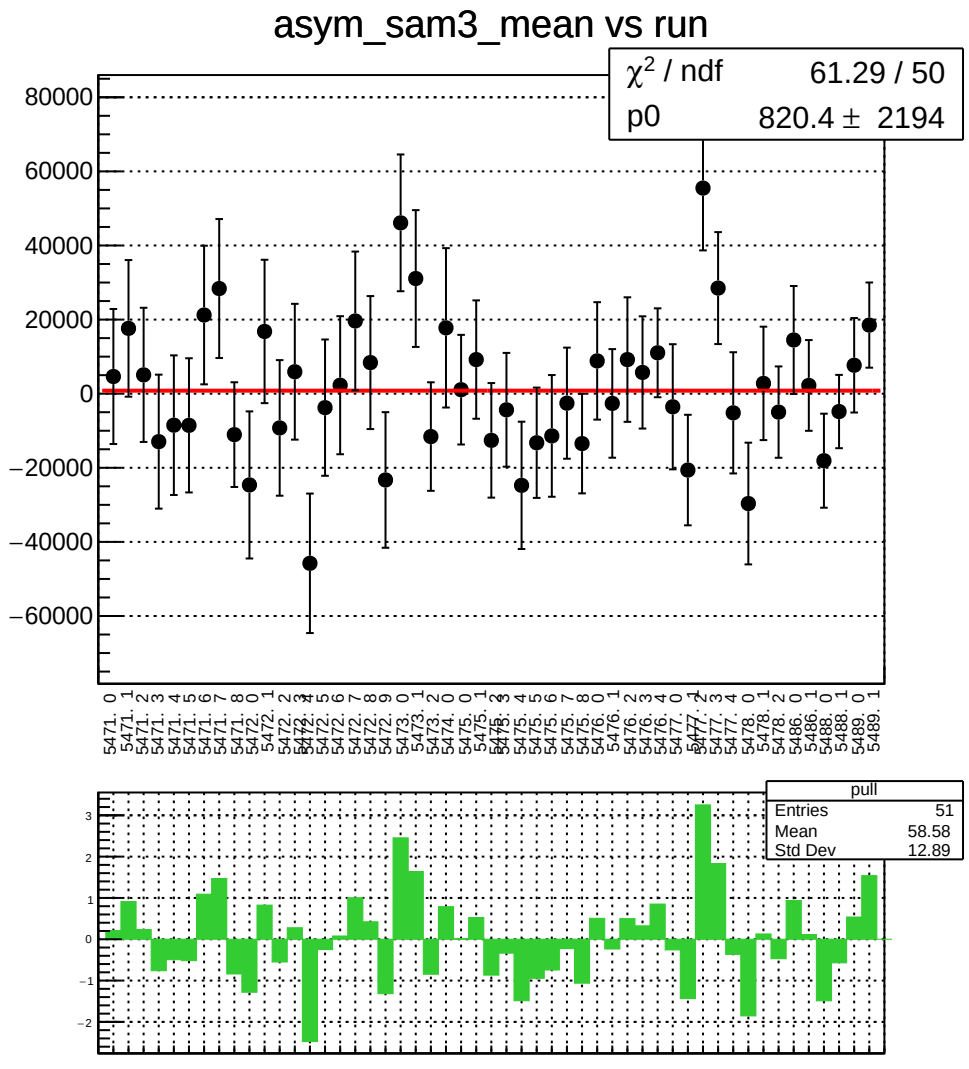

pull1D
Entries 51
Mean −0.06677
Std Dev 0.8905

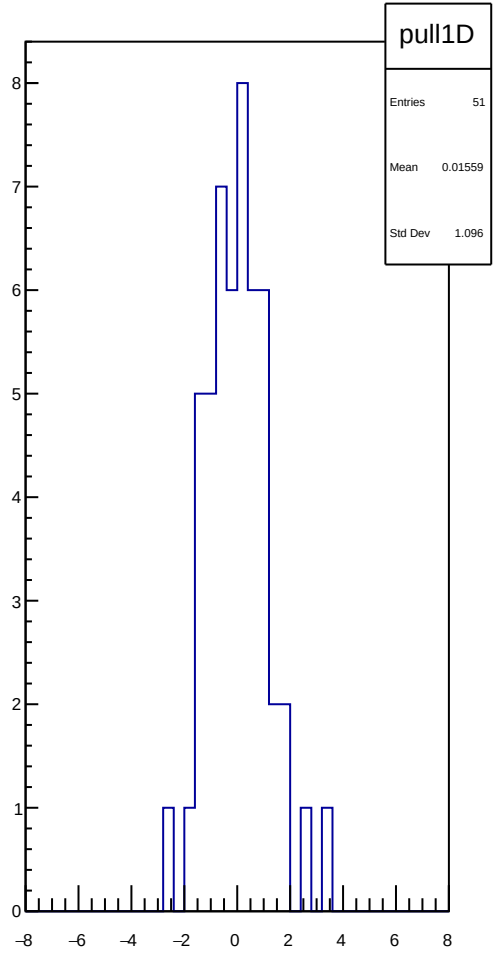

dit_asym_sam3_rms vs run
χ² / ndf 1.576e+05 / 50
p0 181.6 ± 0.1996
450
400
350
300
250
200
150
100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

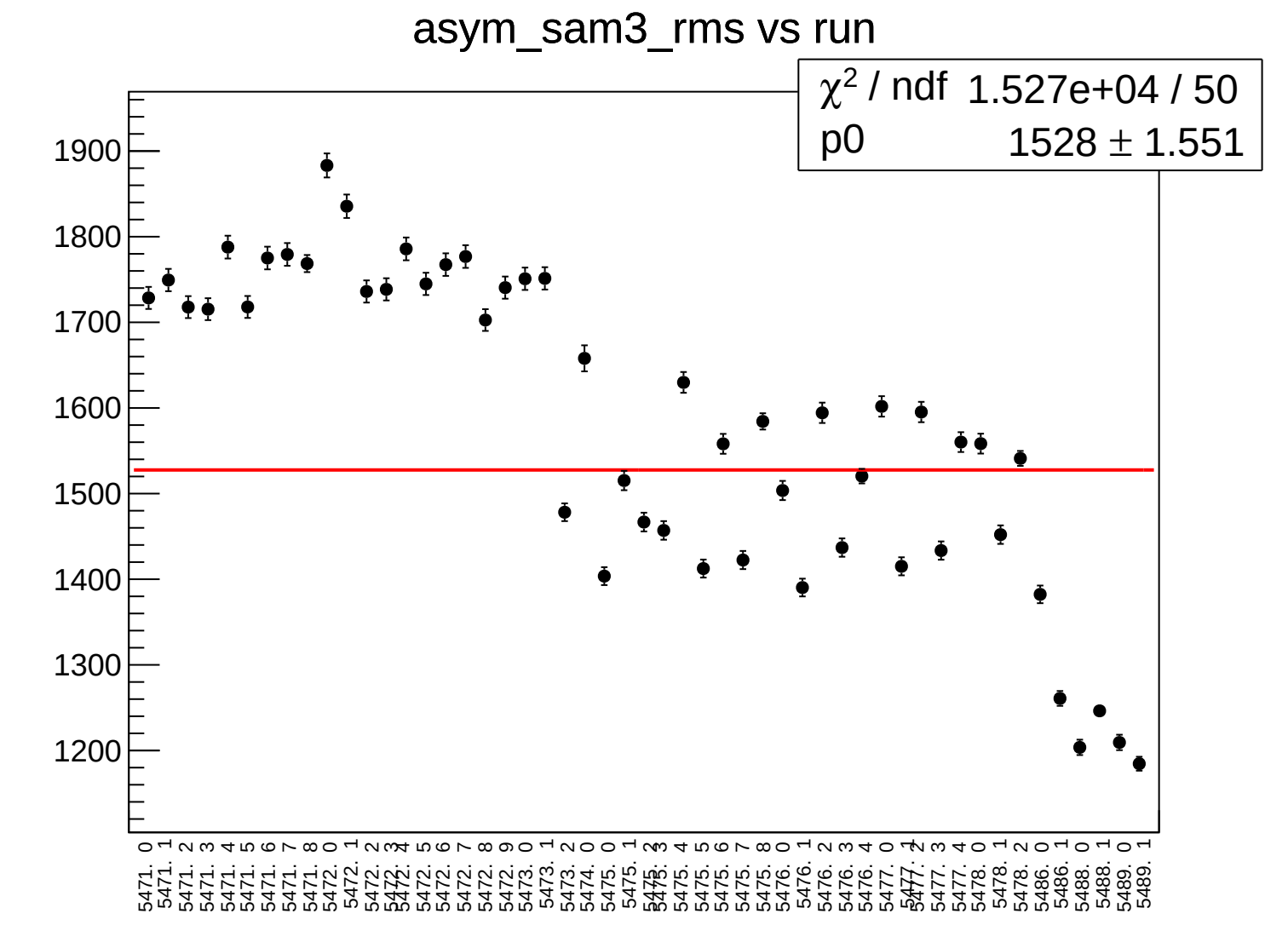

asym_sam3_correction_mean vs run
χ² / ndf 62.31 / 50
p0 −1085 ± 2164
pull
Entries 51
Mean 27.18
Std Dev 30

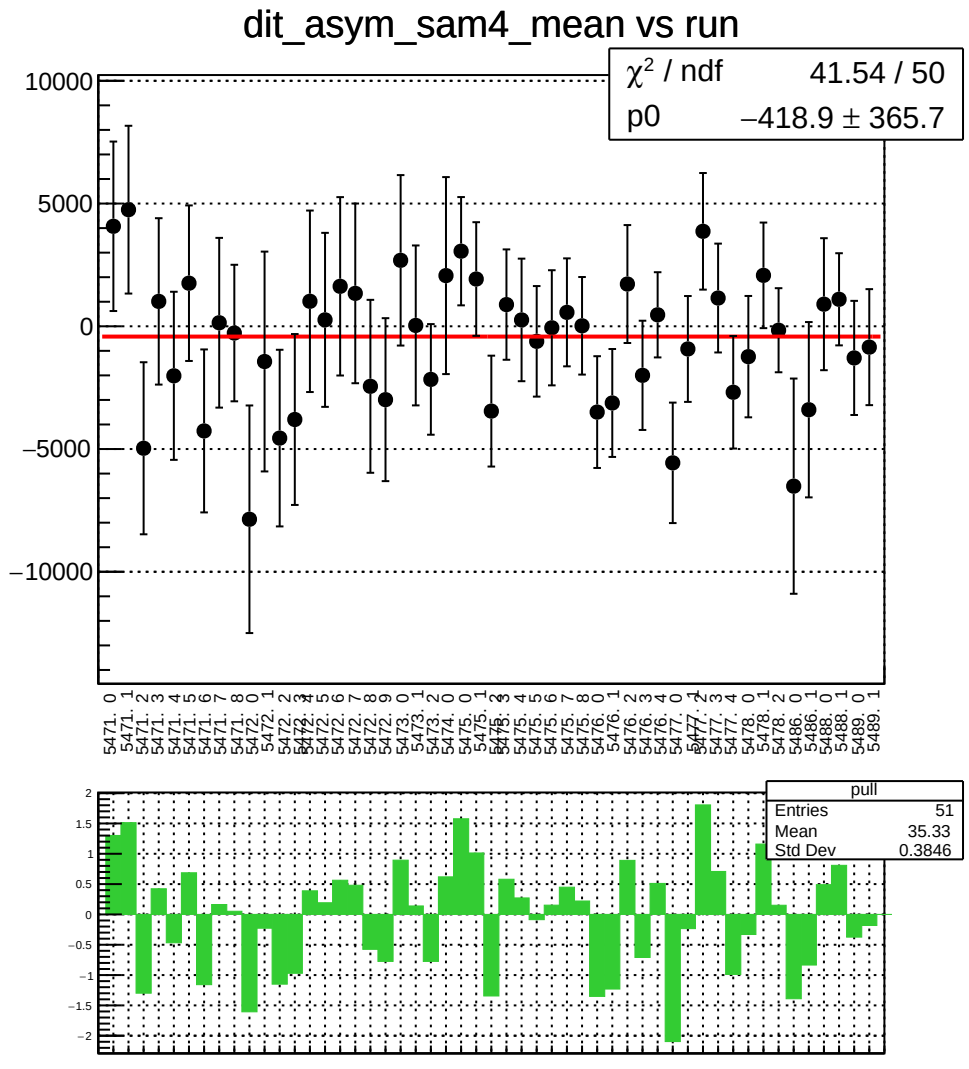

pull1D
Entries 51
Mean −0.02319
Std Dev 1.105

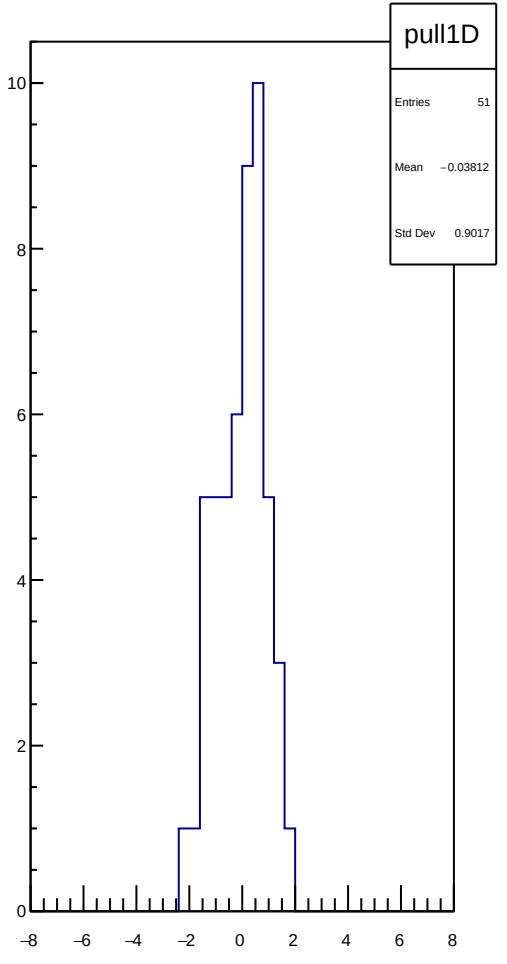

asym_sam3_correction_rms vs run
χ² / ndf 6081 / 50
p0 1514 ± 1.53
1750
1700
1650
1600
1550
1500
1450
1400
1350
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

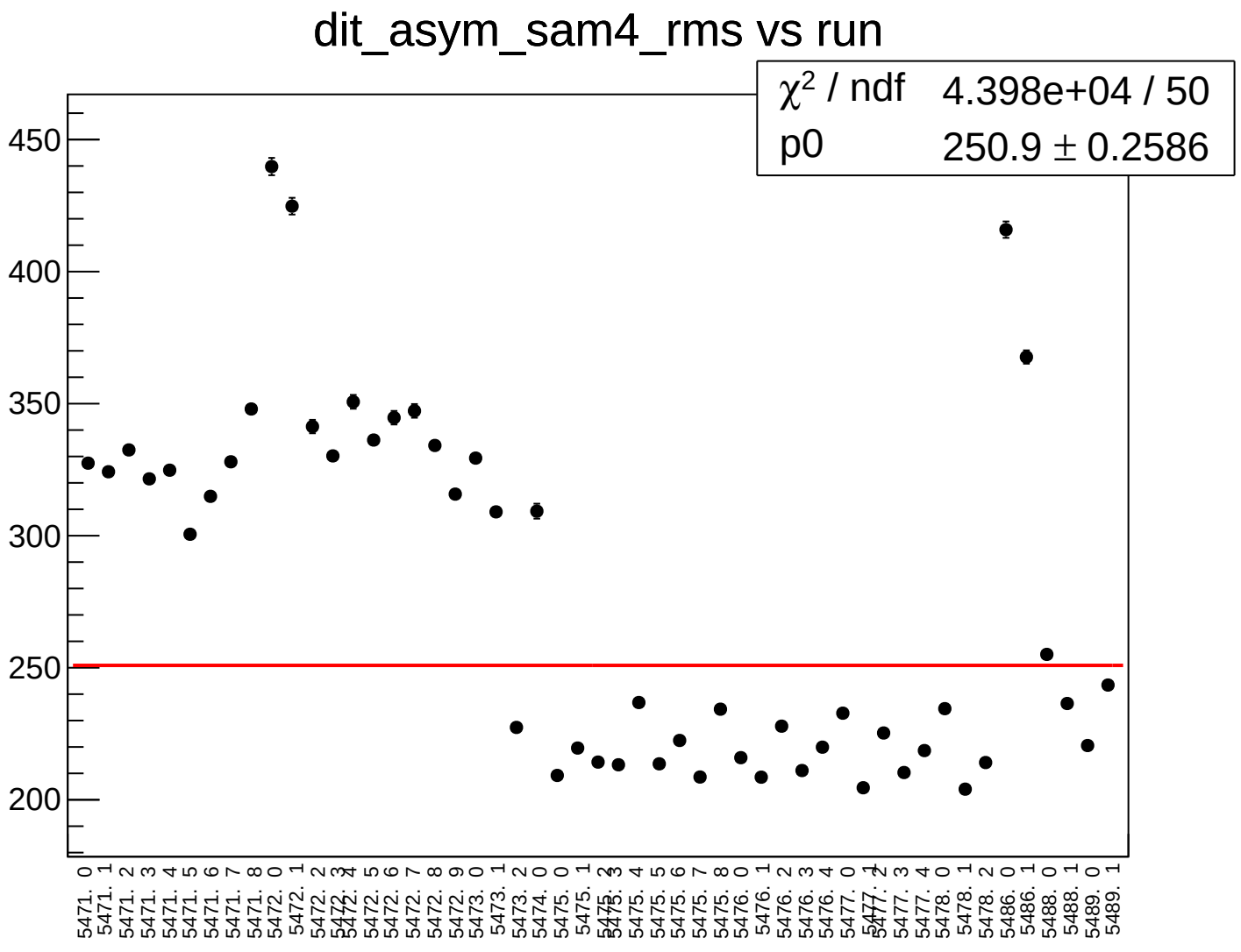

asym_sam3_mean vs run
χ² / ndf 61.29 / 50
p0 820.4 ± 2194
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 58.58
Std Dev 12.89
3
2
1
0
−1
−2

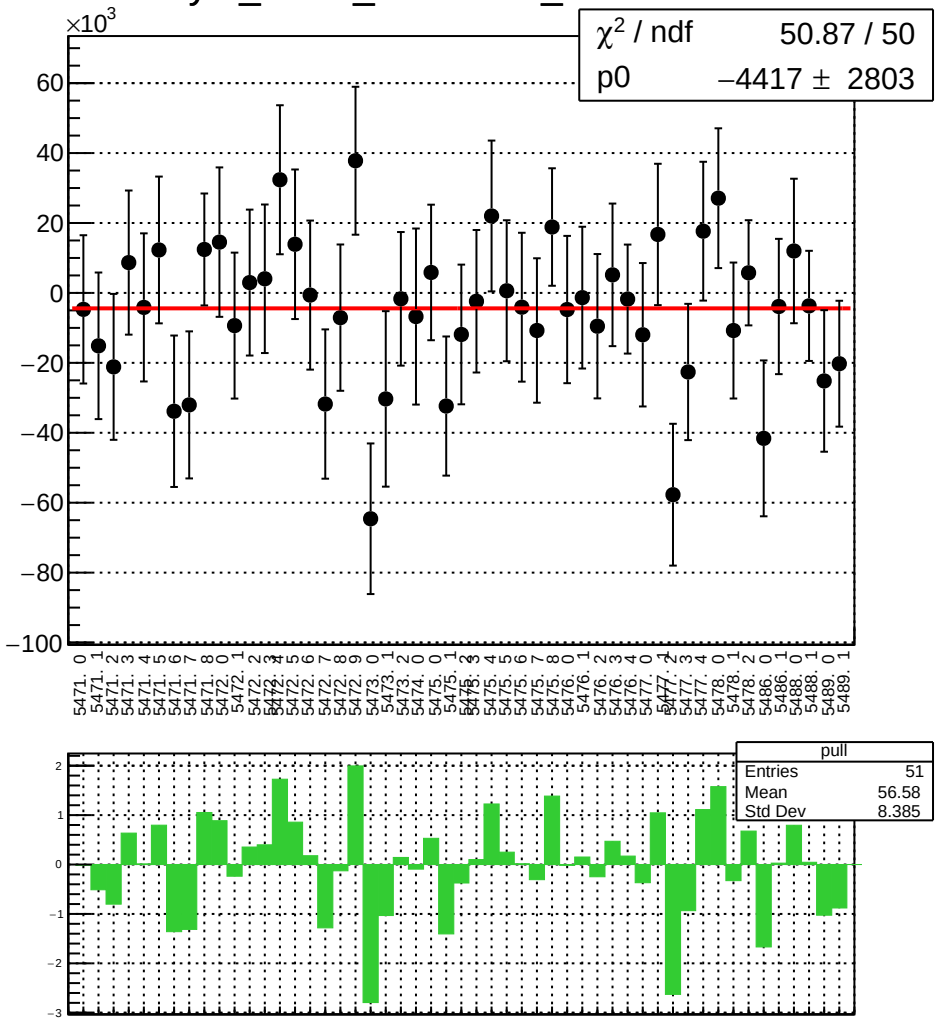

pull1D
Entries 51
Mean 0.01559
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

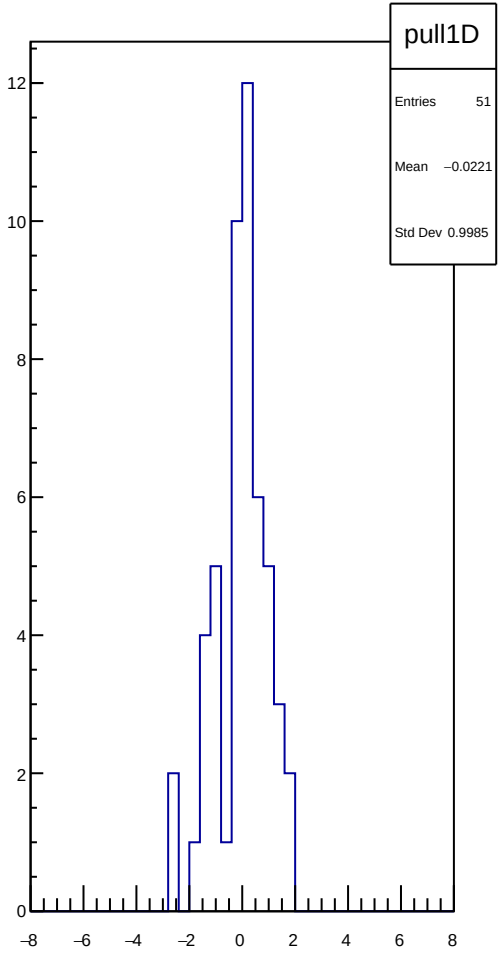

asym_sam3_rms vs run
χ² / ndf 1.527e+04 / 50
p0 1528 ± 1.551
1900
1800
1700
1600
1500
1400
1300
1200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

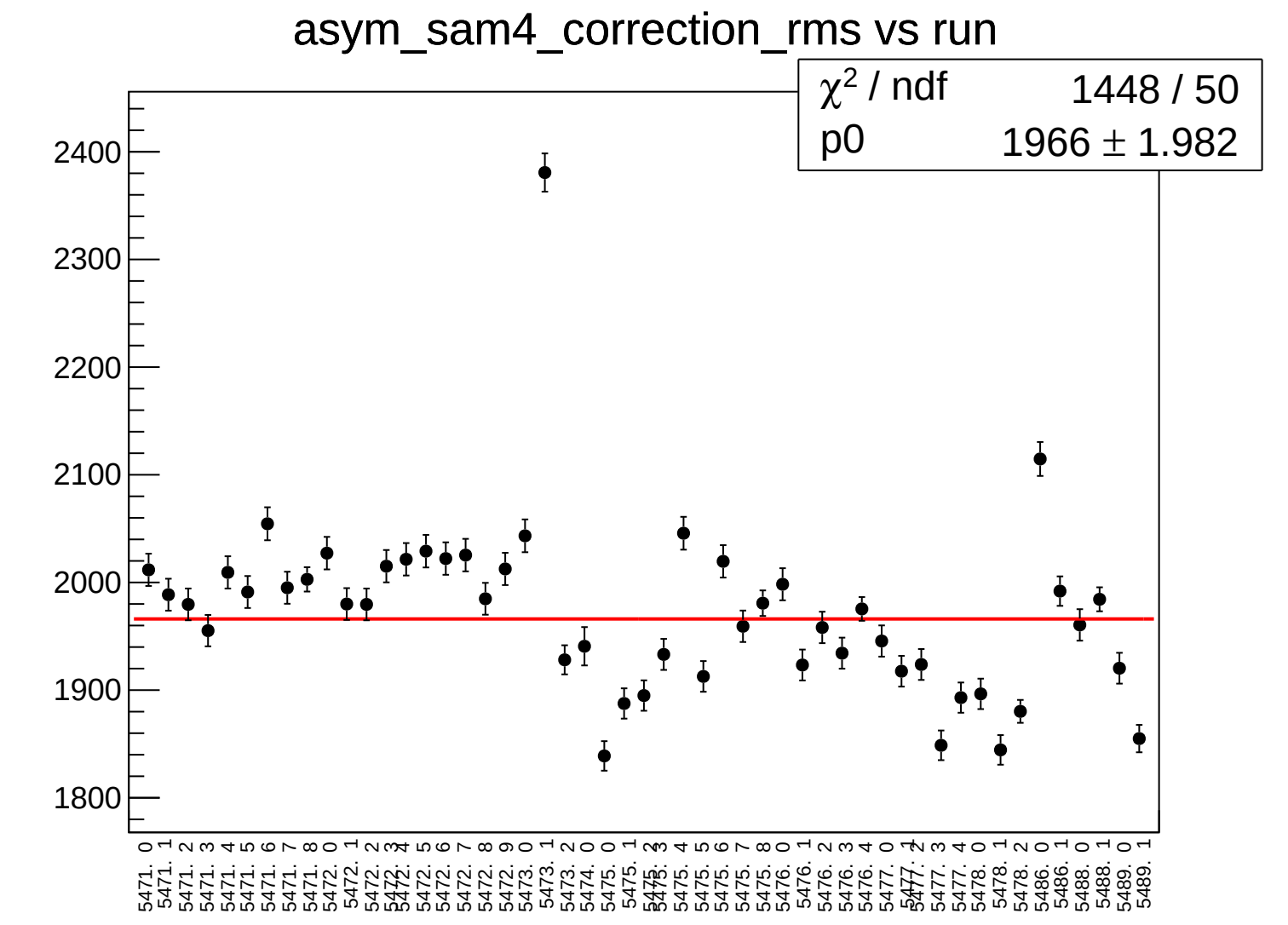

dit_asym_sam4_mean vs run
χ^2 / ndf 41.54 / 50
p0 −418.9 ± 365.7
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 35.33
Std Dev 0.3846
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

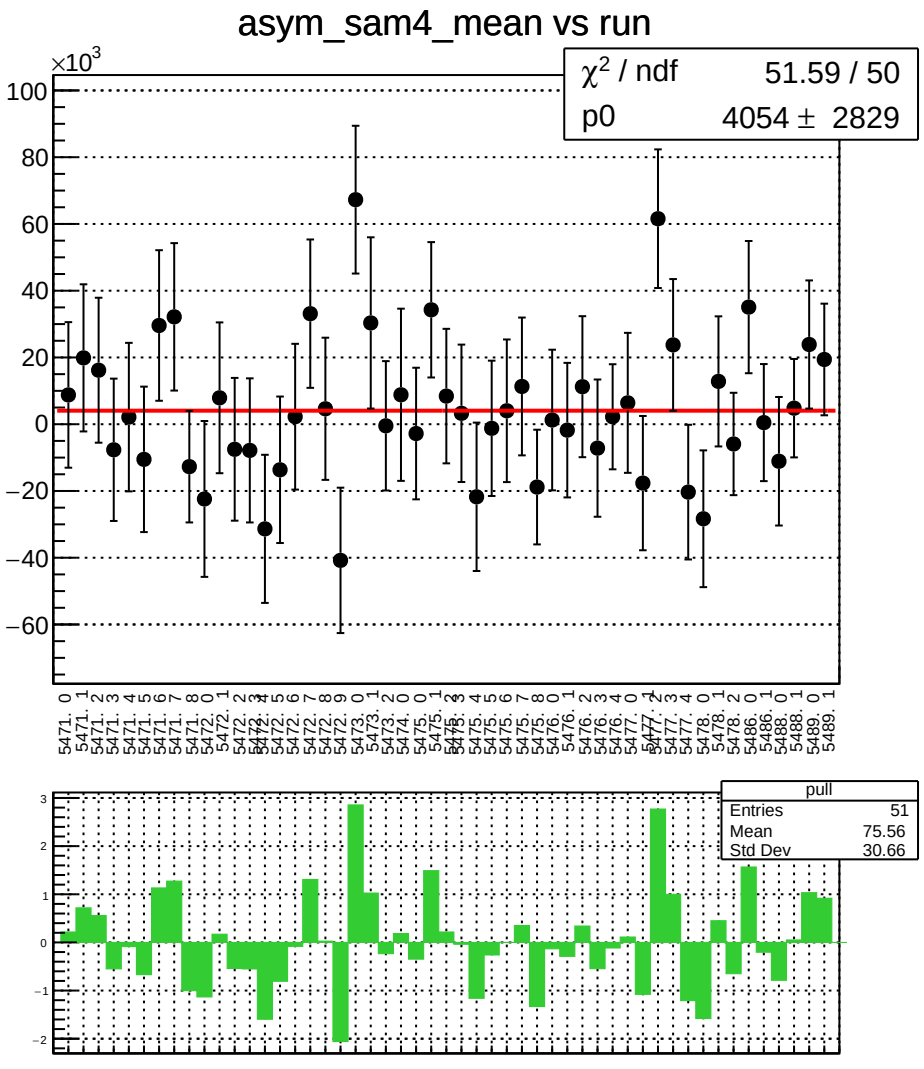

pull1D
Entries 51
Mean −0.03812
Std Dev 0.9017
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

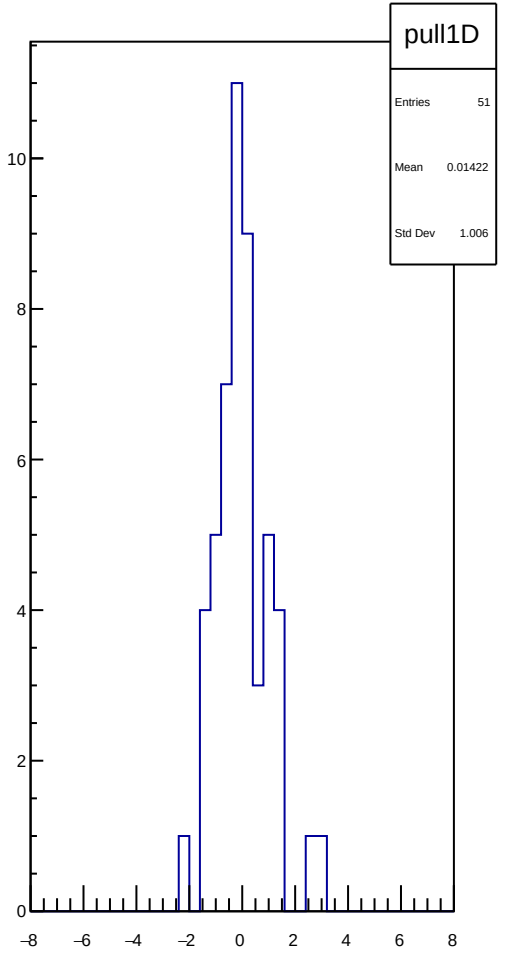

dit_asym_sam4_rms vs run
χ² / ndf 4.398e+04 / 50
p0 250.9 ± 0.2586
450
400
350
300
250
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

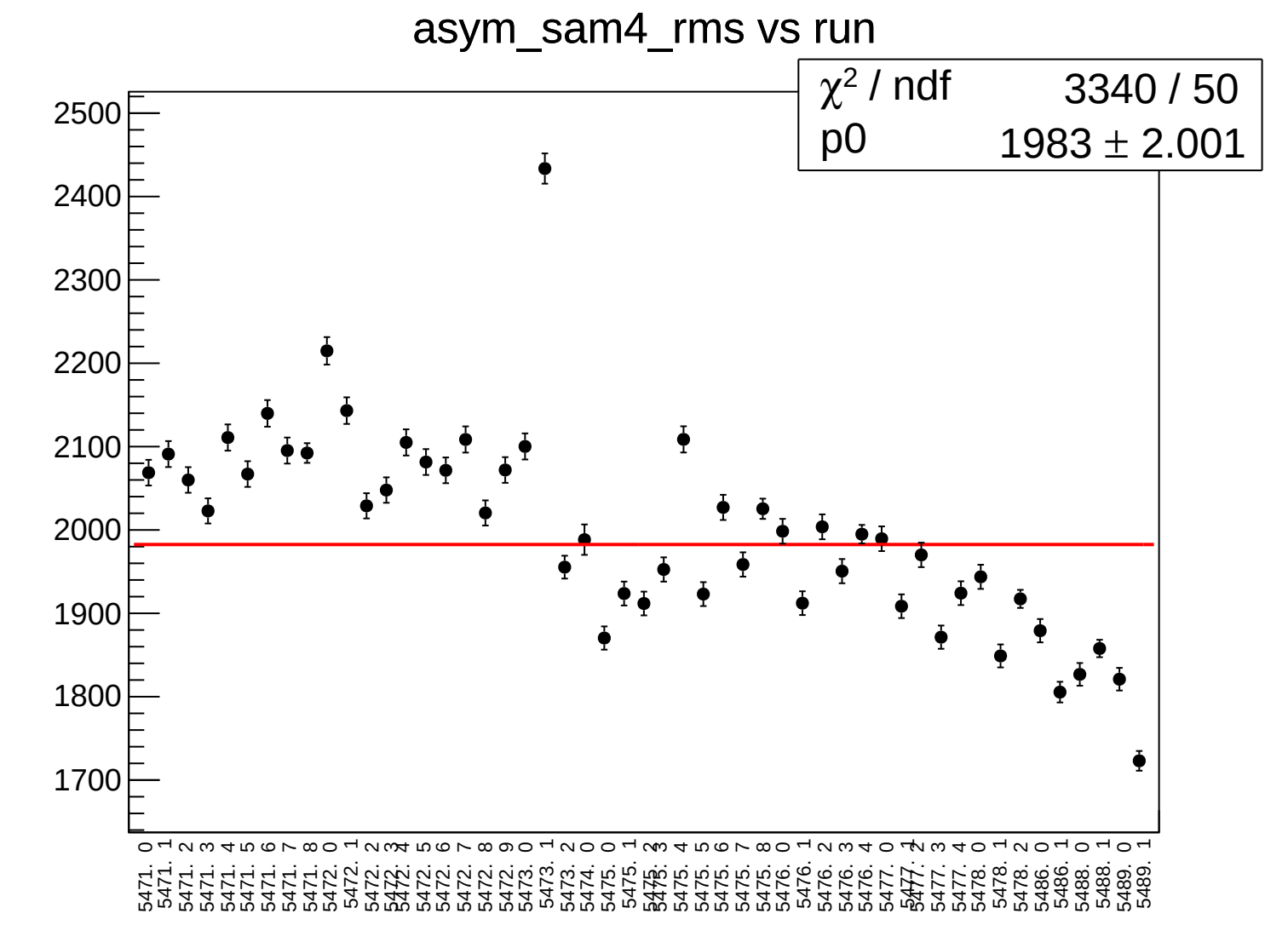

asym_sam4_correction_mean vs run
χ² / ndf 50.87 / 50
p0 −4417 ± 2803
pull
Entries 51
Mean 56.58
Std Dev 8.385

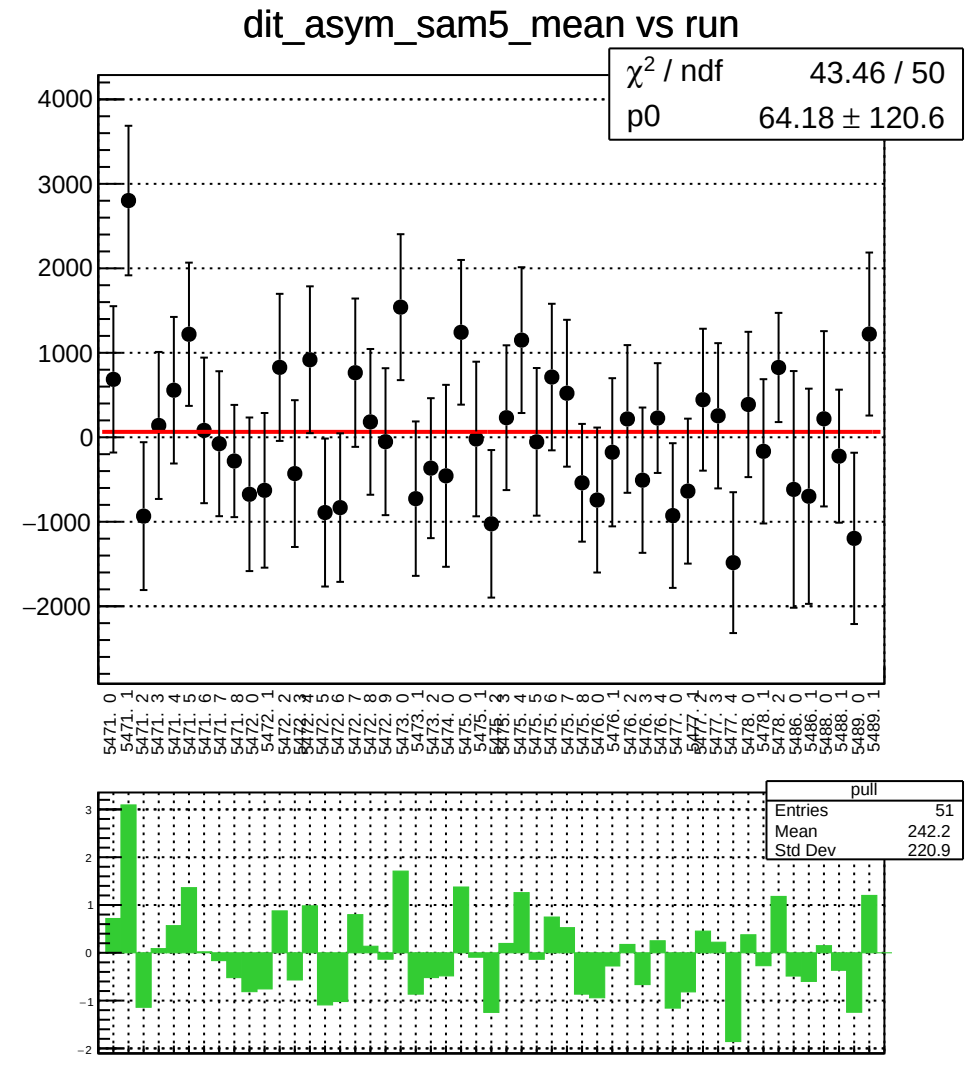

pull1D
Entries 51
Mean −0.0221
Std Dev 0.9985

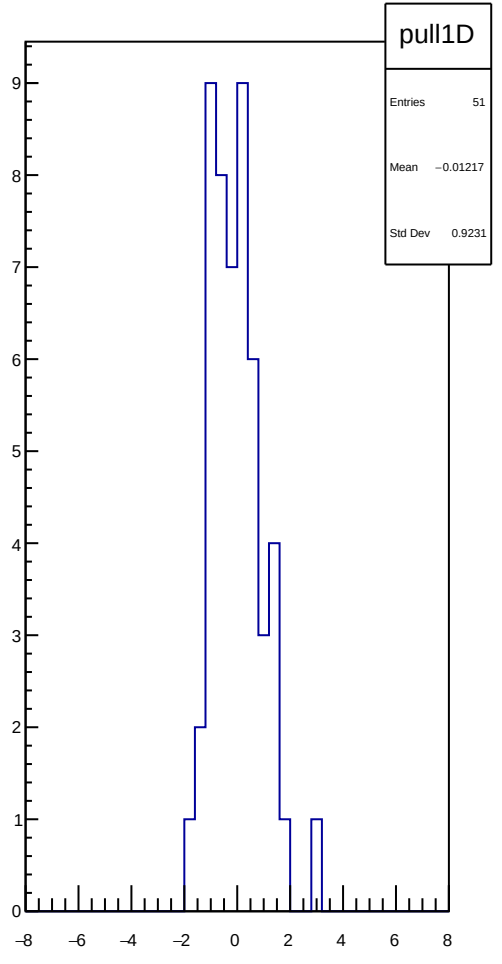

asym_sam4_correction_rms vs run
χ² / ndf 1448 / 50
p0 1966 ± 1.982
2400
2300
2200
2100
2000
1900
1800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

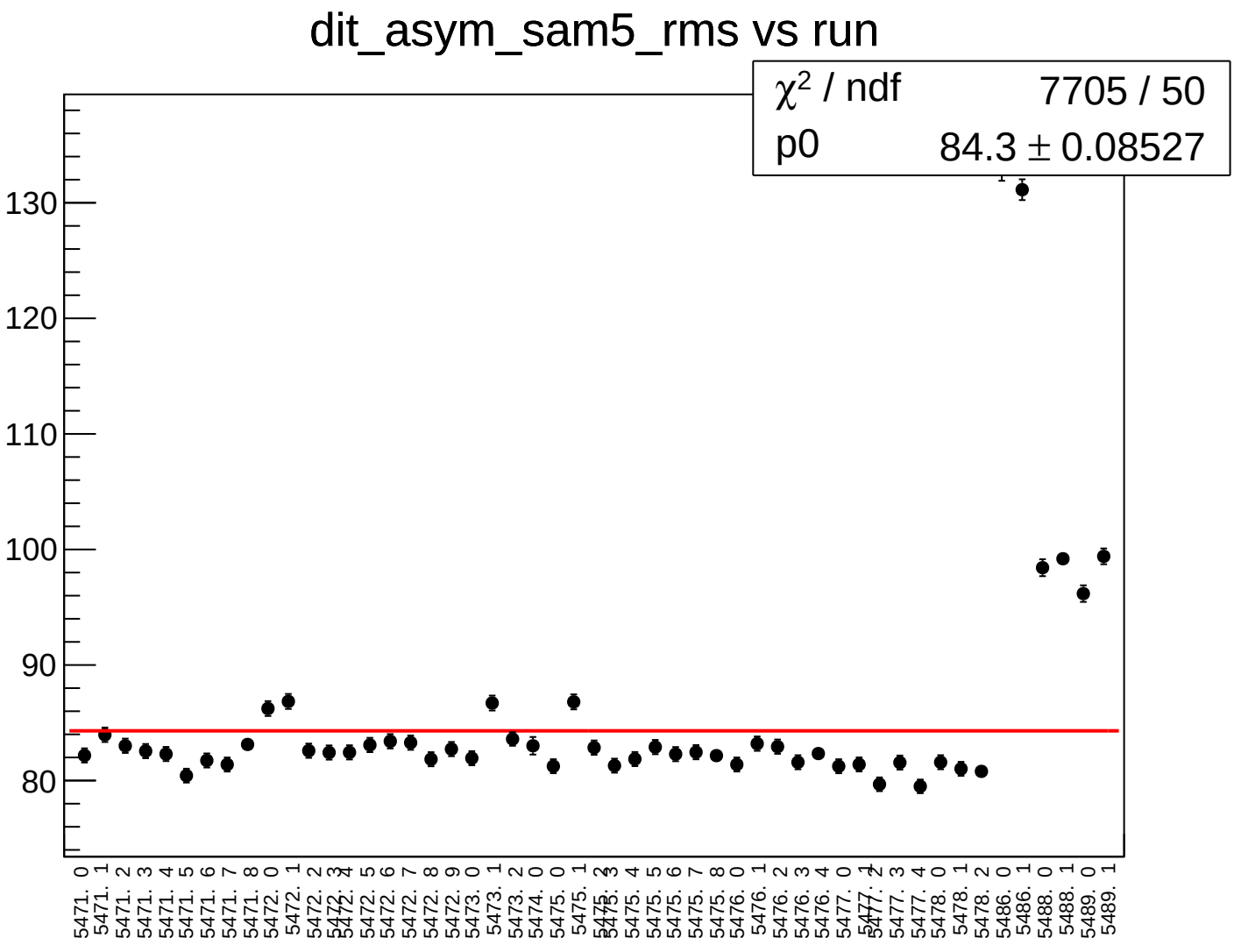

asym_sam4_mean vs run
×10^3
χ² / ndf 51.59 / 50
p0 4054 ± 2829
pull
Entries 51
Mean 75.56
Std Dev 30.66

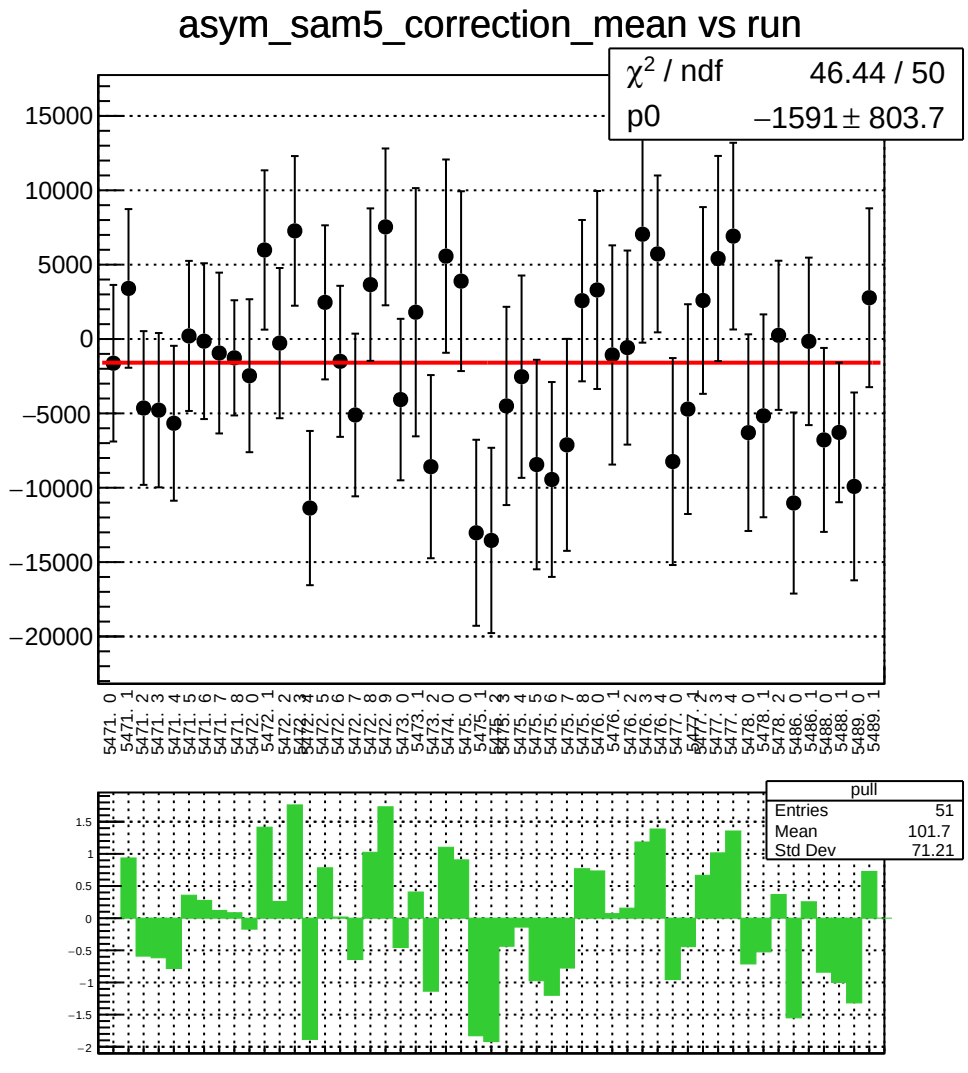

pull1D
Entries 51
Mean 0.01422
Std Dev 1.006

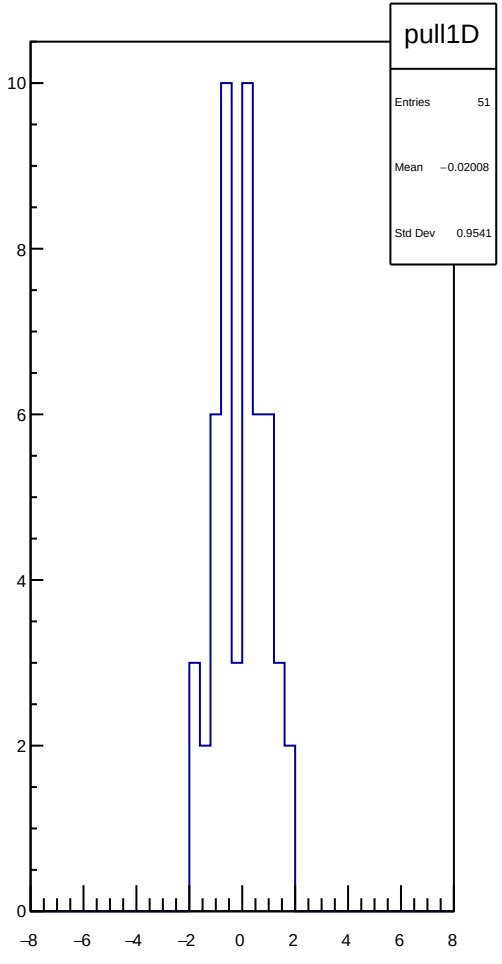

asym_sam4_rms vs run
χ² / ndf 3340 / 50
p0 1983 ± 2.001
2500
2400
2300
2200
2100
2000
1900
1800
1700
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

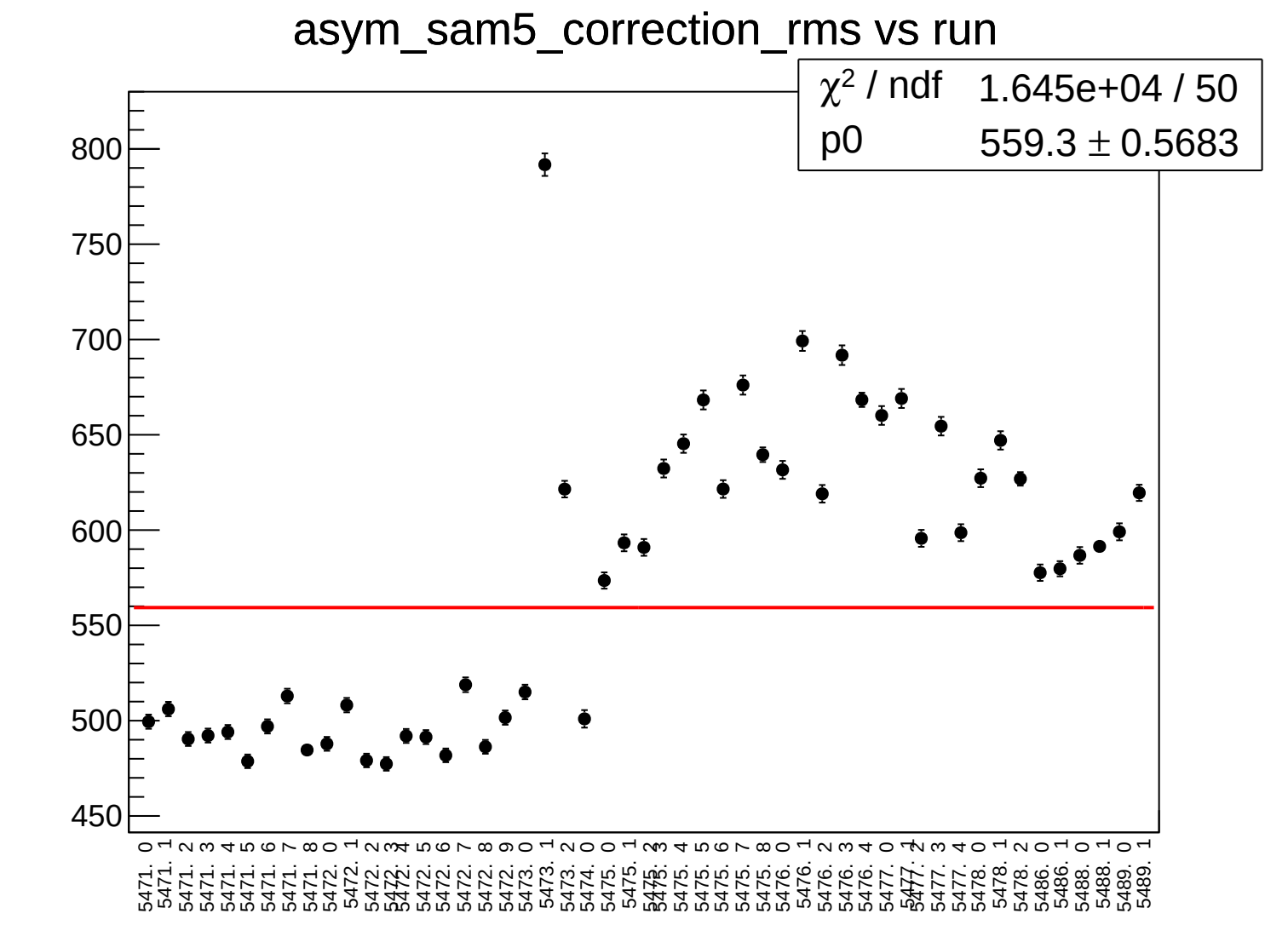

dit_asym_sam5_mean vs run
χ^2 / ndf 43.46 / 50
p0 64.18 ± 120.6
pull
Entries 51
Mean 242.2
Std Dev 220.9

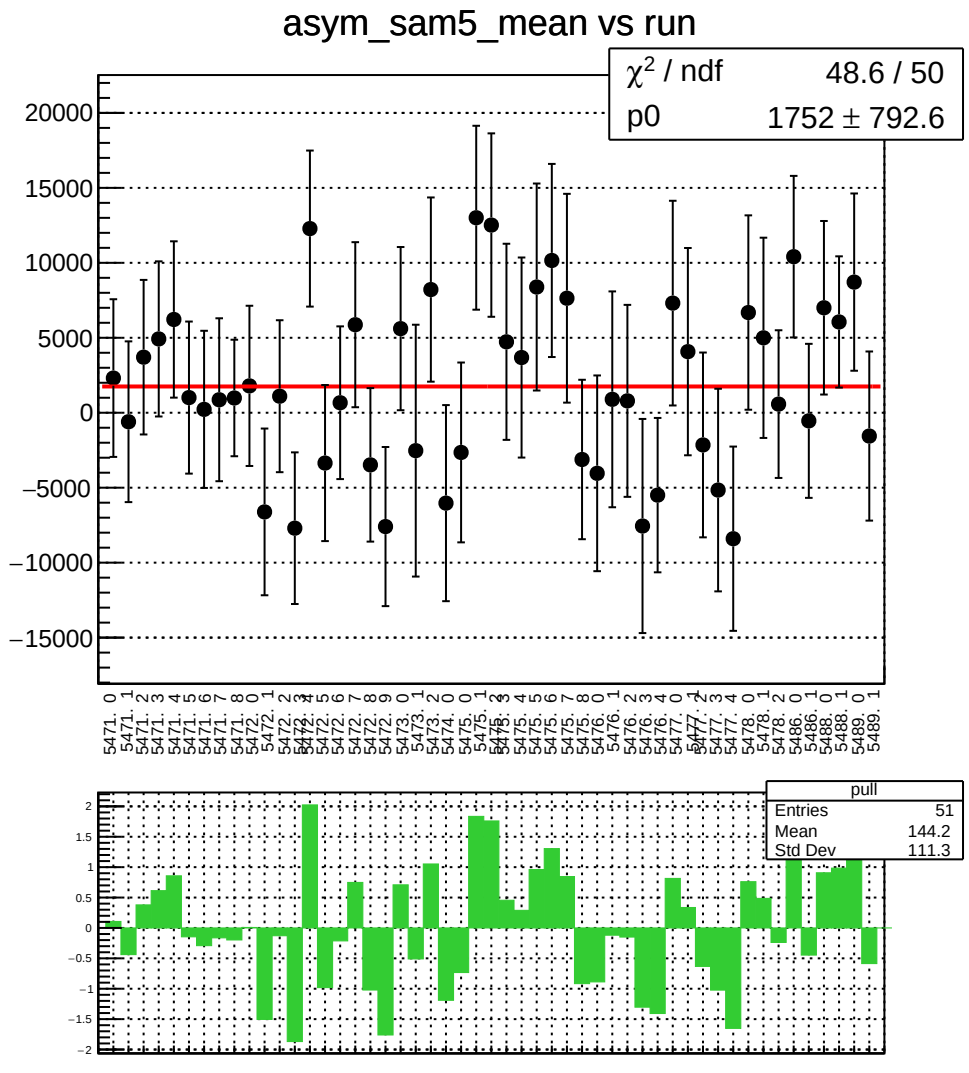

pull1D
Entries 51
Mean −0.01217
Std Dev 0.9231

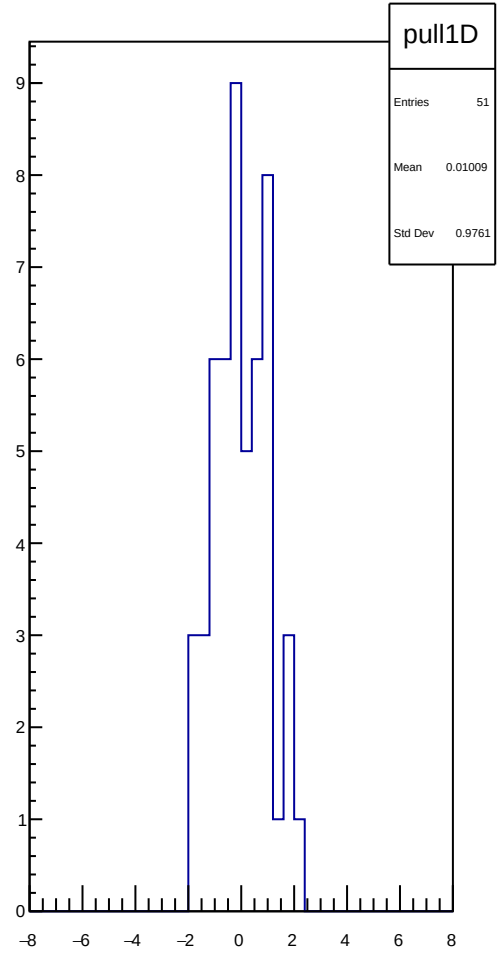

dit_asym_sam5_rms vs run
χ² / ndf 7705 / 50
p0 84.3 ± 0.08527
130
120
110
100
90
80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

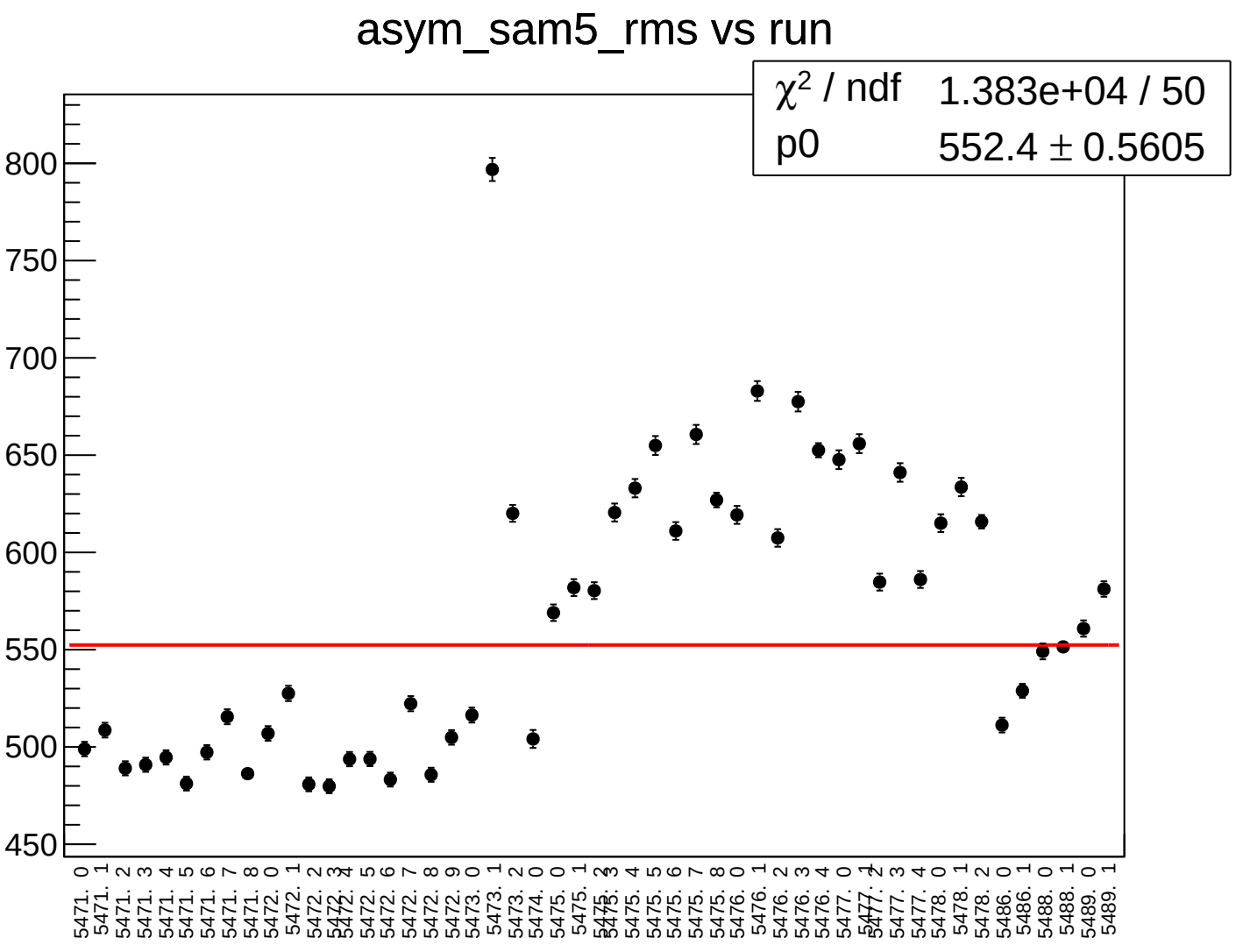

asym_sam5_correction_mean vs run
χ² / ndf 46.44 / 50
p0 −1591 ± 803.7
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 51
Mean 101.7
Std Dev 71.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

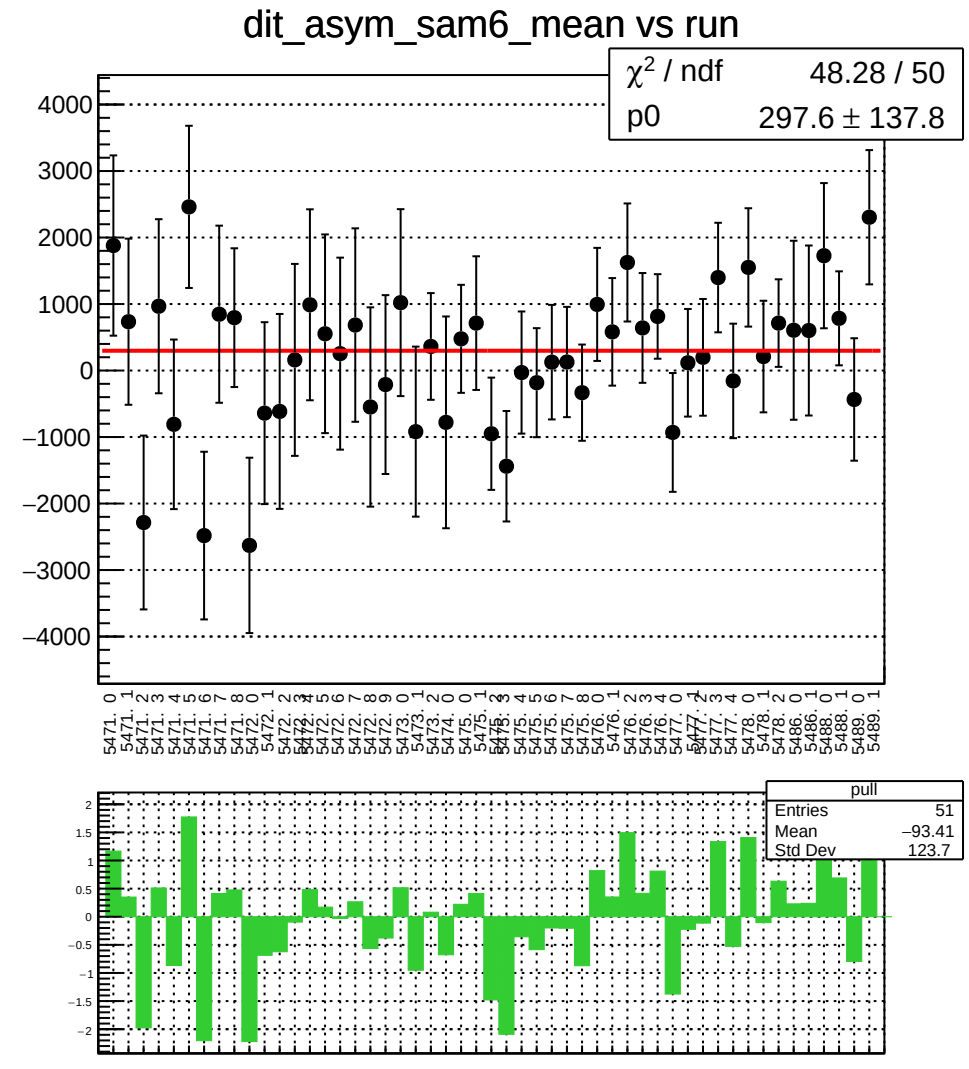

pull1D
Entries 51
Mean −0.02008
Std Dev 0.9541
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

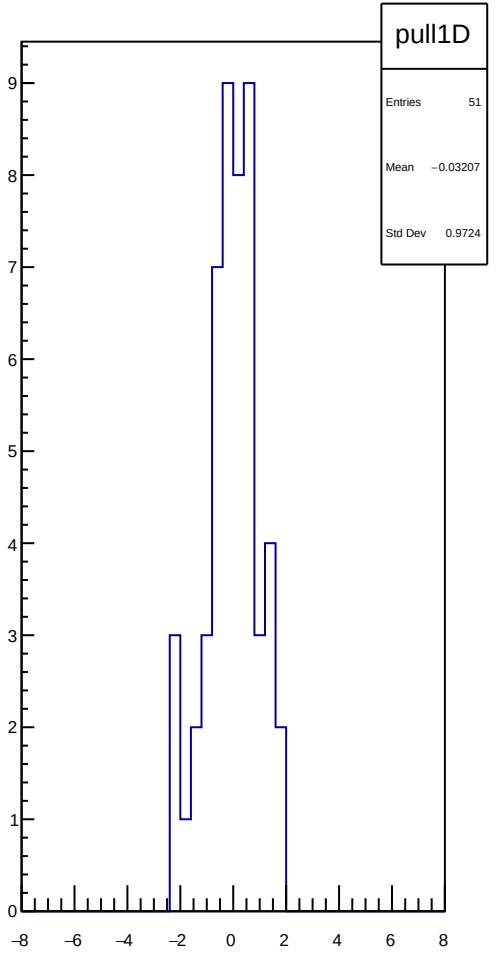

asym_sam5_correction_rms vs run
χ² / ndf 1.645e+04 / 50
p0 559.3 ± 0.5683
800
750
700
650
600
550
500
450
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

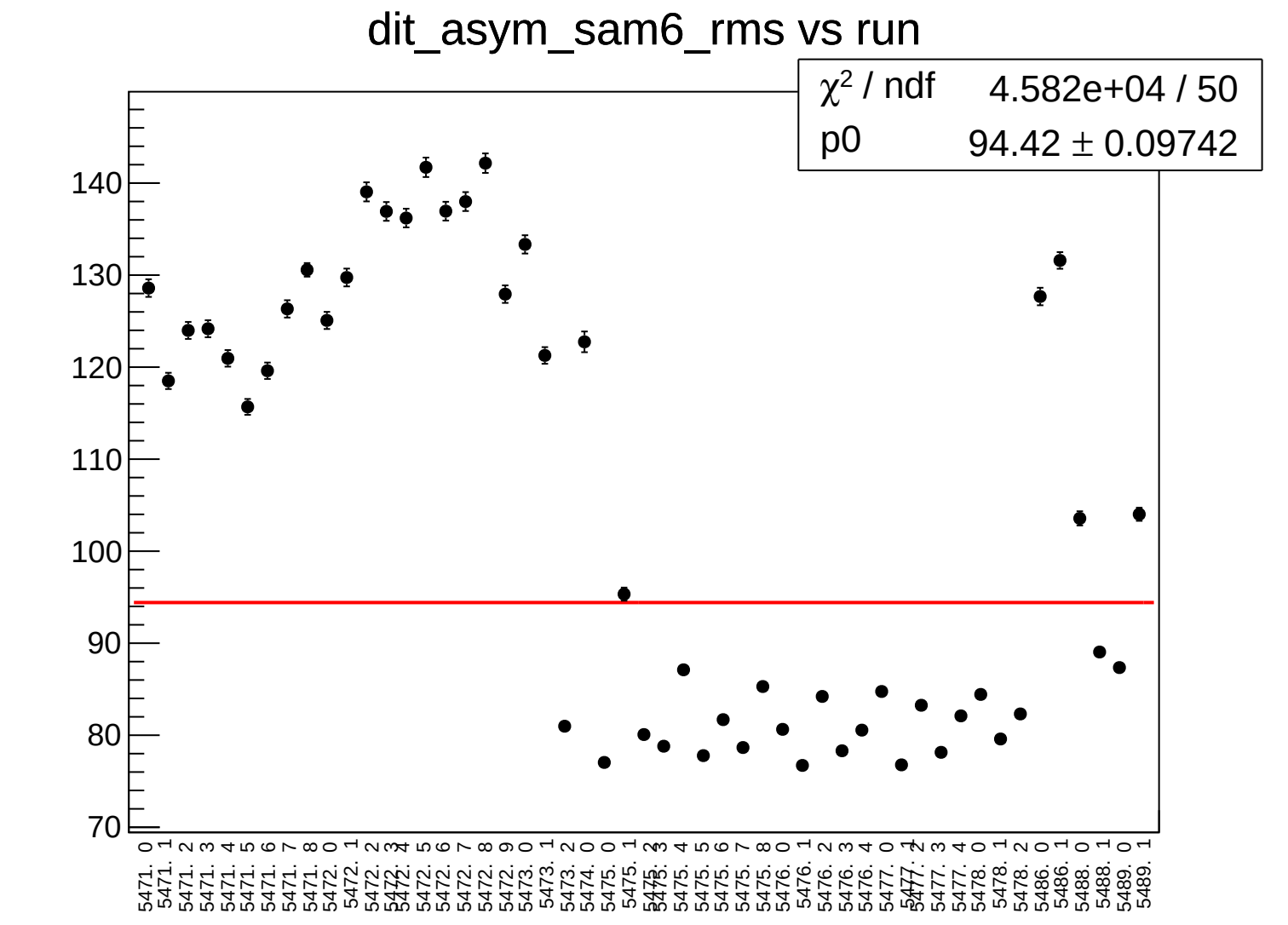

asym_sam5_mean vs run
χ^2 / ndf 48.6 / 50
p0 1752 ± 792.6
pull
Entries 51
Mean 144.2
Std Dev 111.3

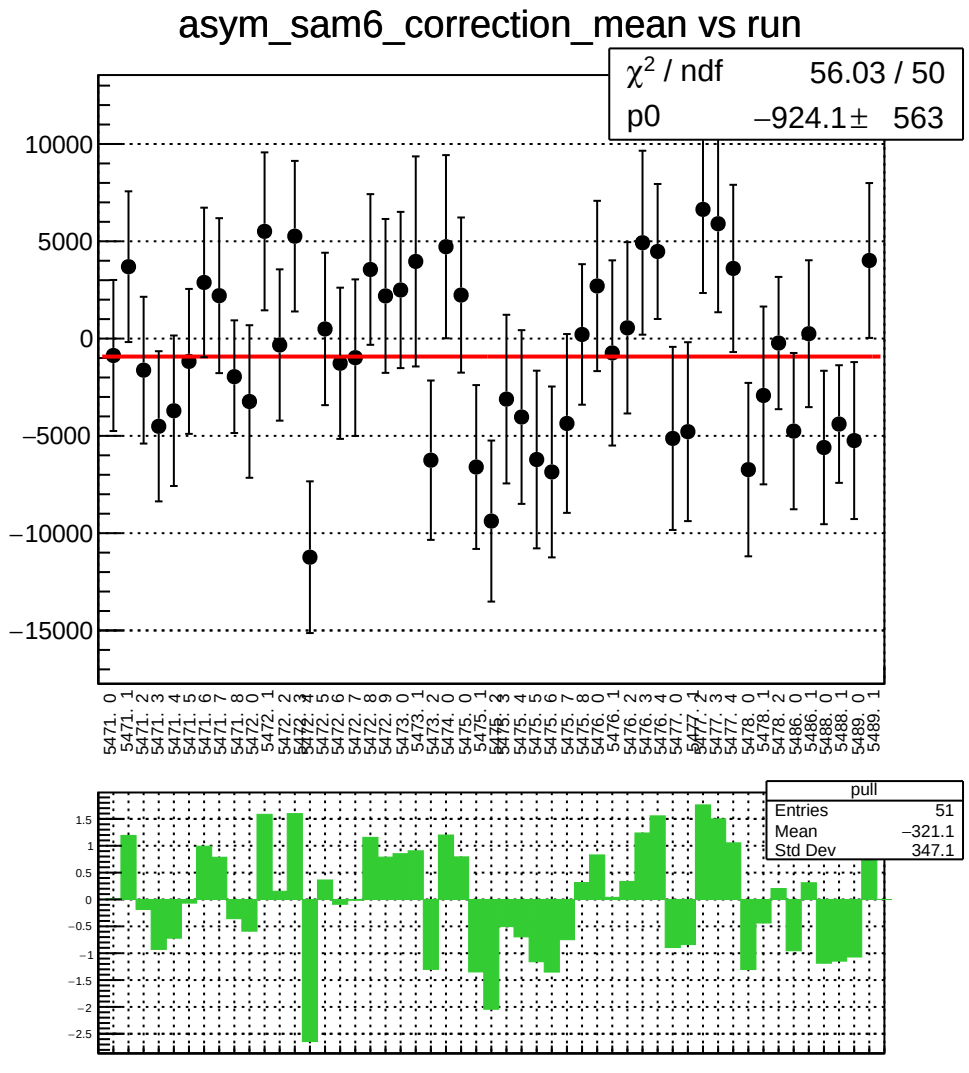

pull1D
Entries 51
Mean 0.01009
Std Dev 0.9761

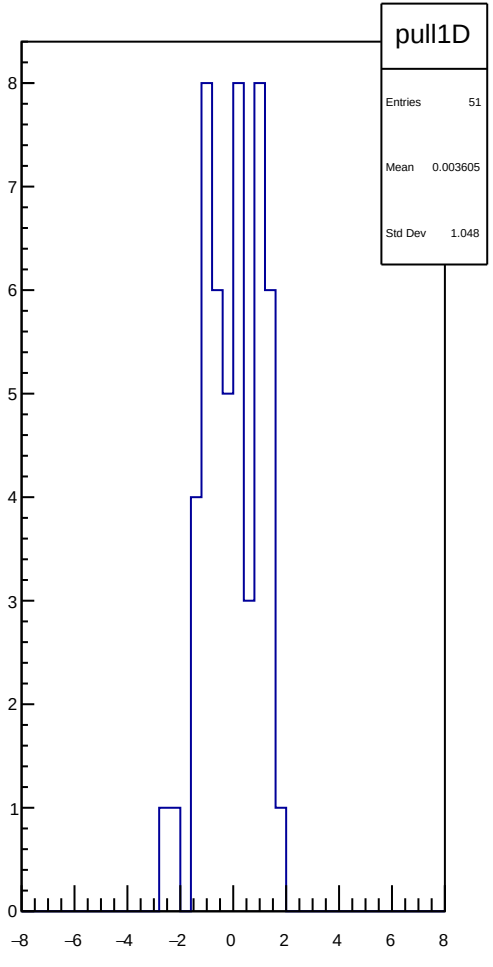

asym_sam5_rms vs run
χ² / ndf 1.383e+04 / 50
p0 552.4 ± 0.5605
800
750
700
650
600
550
500
450
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

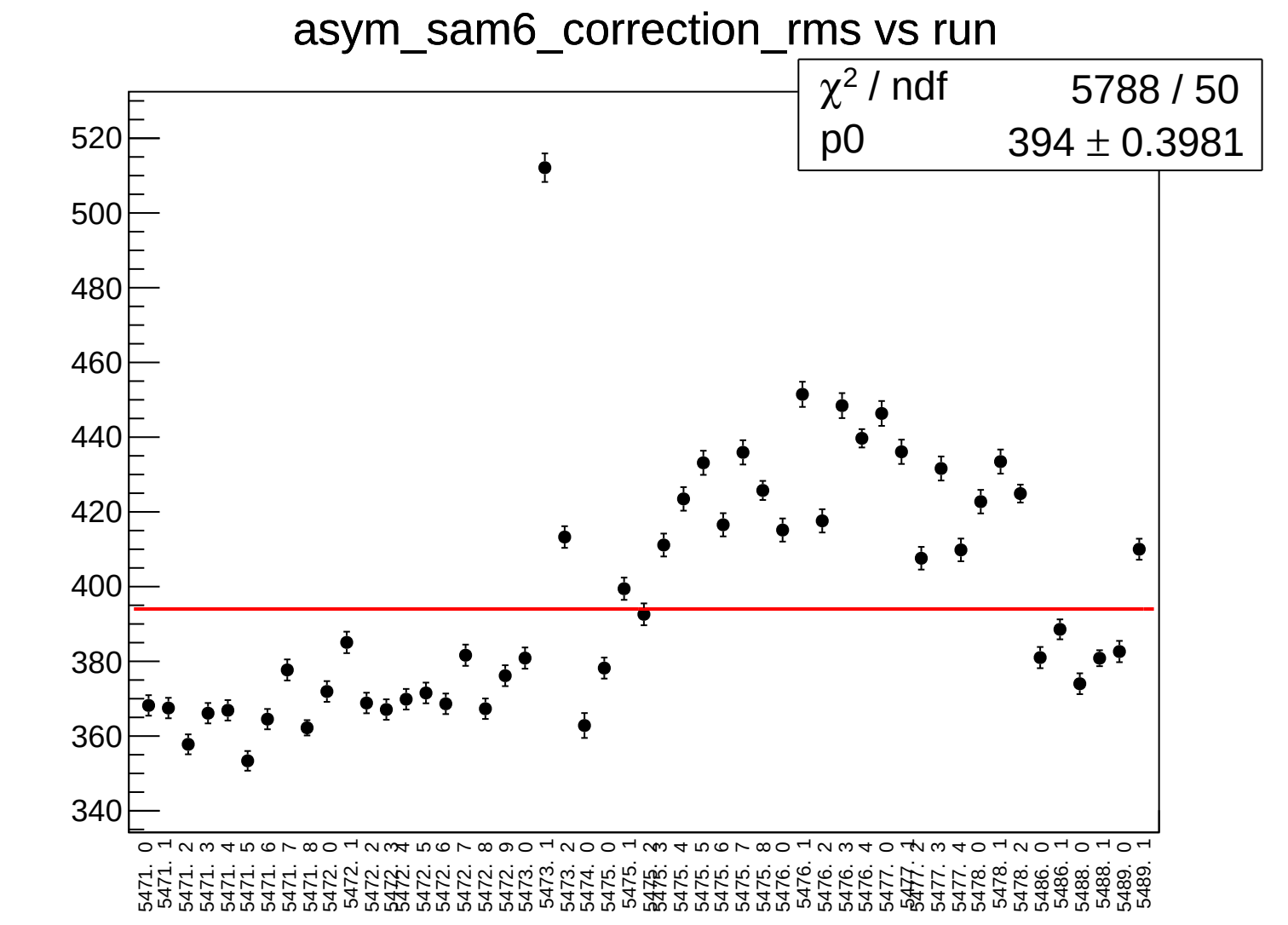

dit_asym_sam6_mean vs run
χ^2 / ndf 48.28 / 50
p0 297.6 ± 137.8
pull
Entries 51
Mean −93.41
Std Dev 123.7

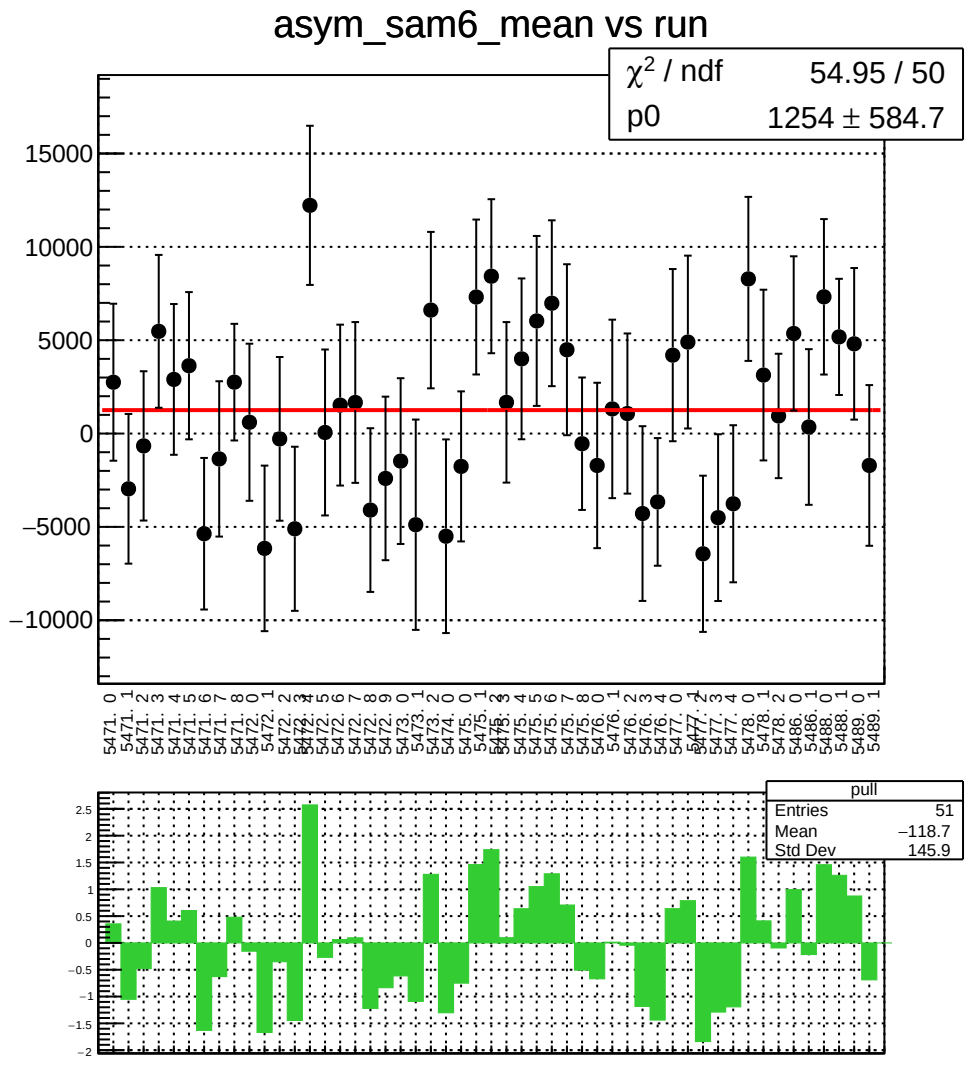

pull1D
Entries 51
Mean −0.03207
Std Dev 0.9724

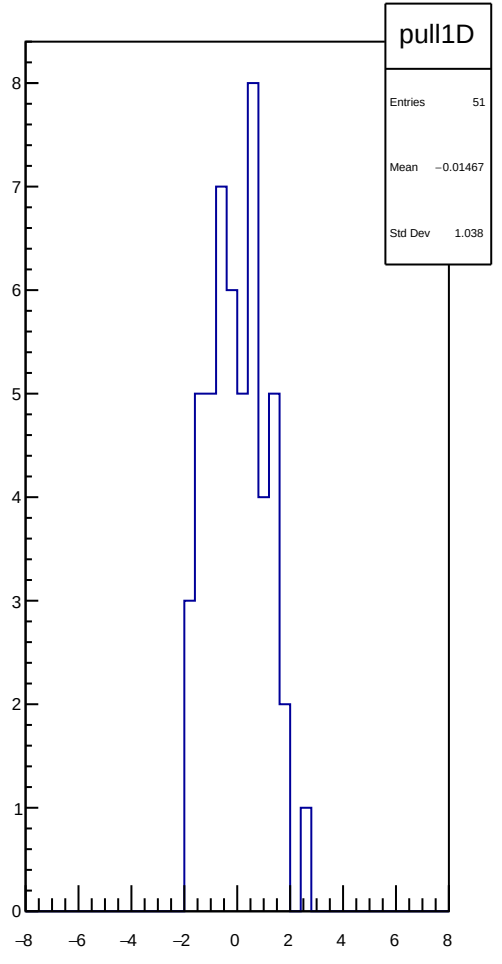

dit_asym_sam6_rms vs run
χ² / ndf 4.582e+04 / 50
p0 94.42 ± 0.09742
140
130
120
110
100
90
80
70
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

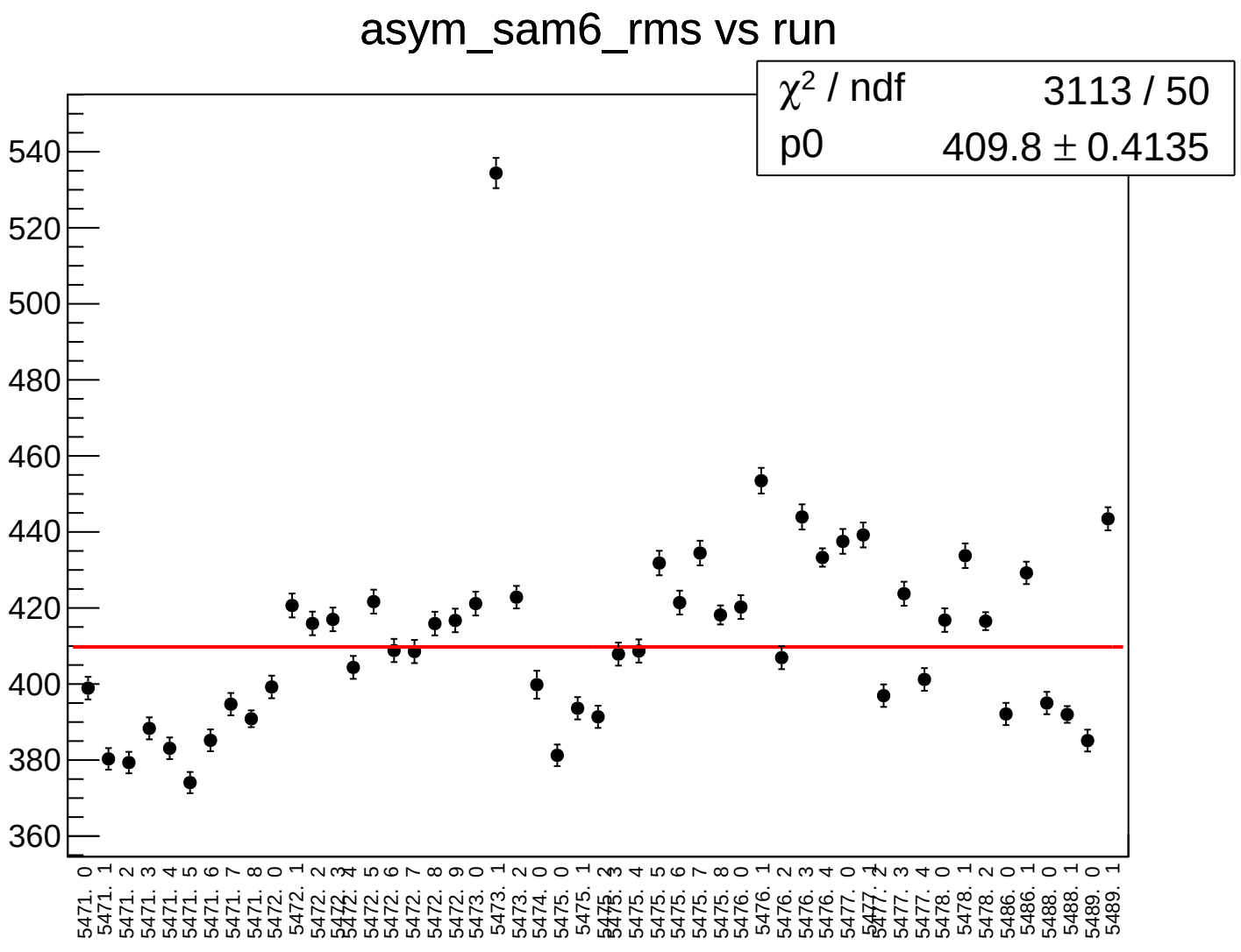

asym_sam6_correction_mean vs run
χ² / ndf 56.03 / 50
p0 −924.1 ± 563
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −321.1
Std Dev 347.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

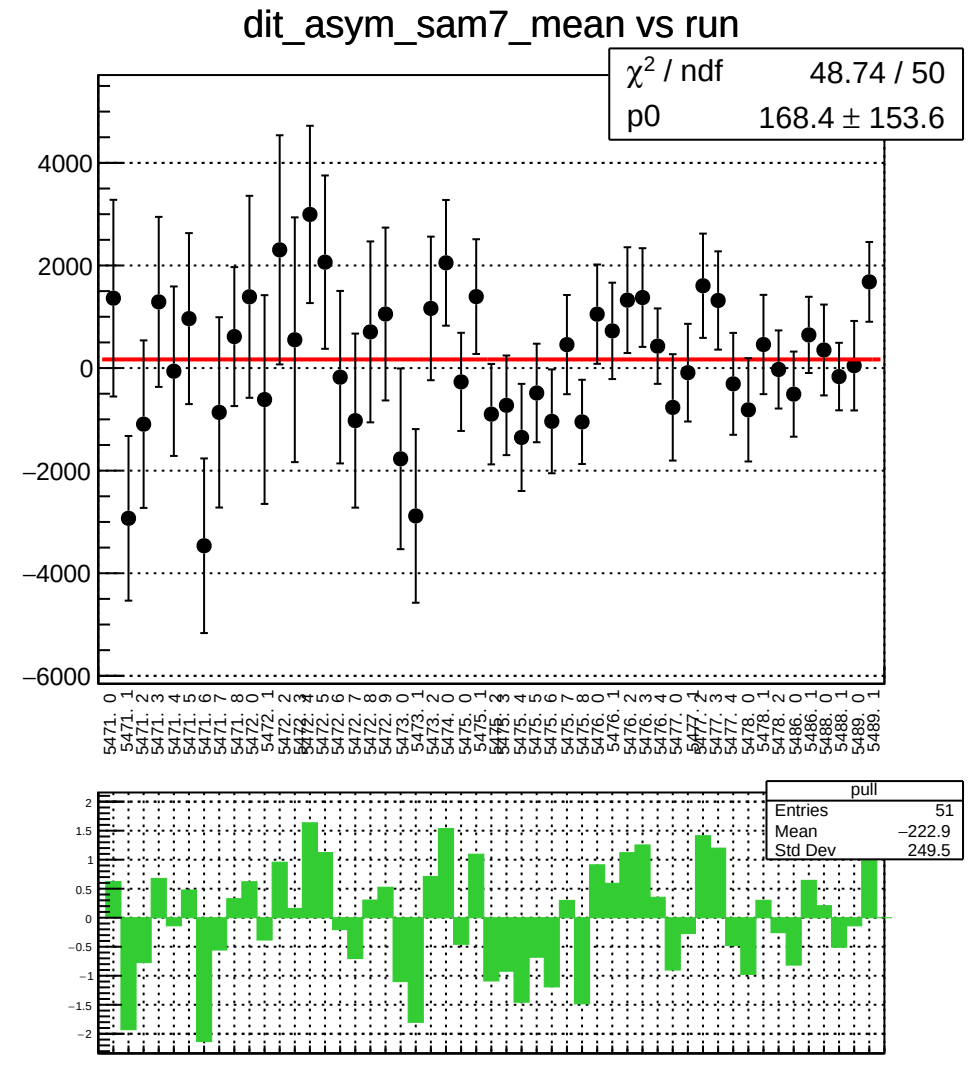

pull1D
Entries 51
Mean 0.003605
Std Dev 1.048
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

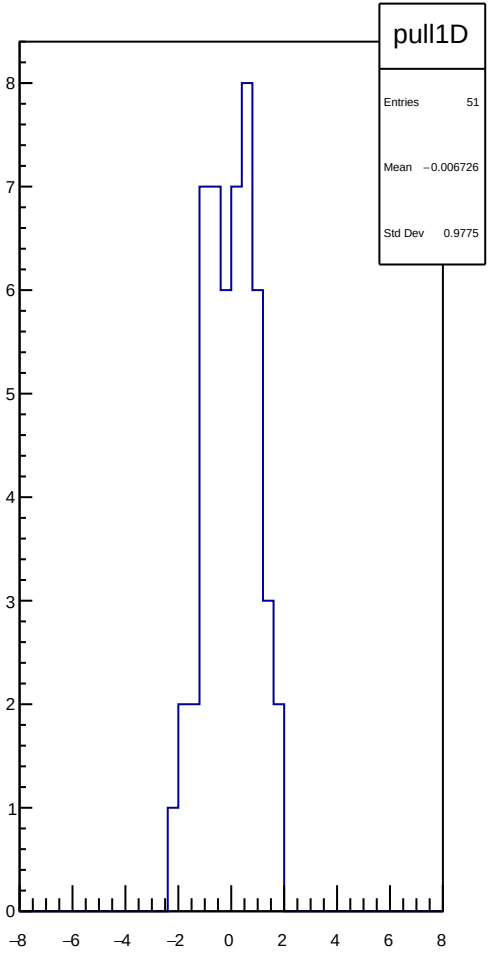

asym_sam6_correction_rms vs run
χ² / ndf 5788 / 50
p0 394 ± 0.3981
520
500
480
460
440
420
400
380
360
340
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

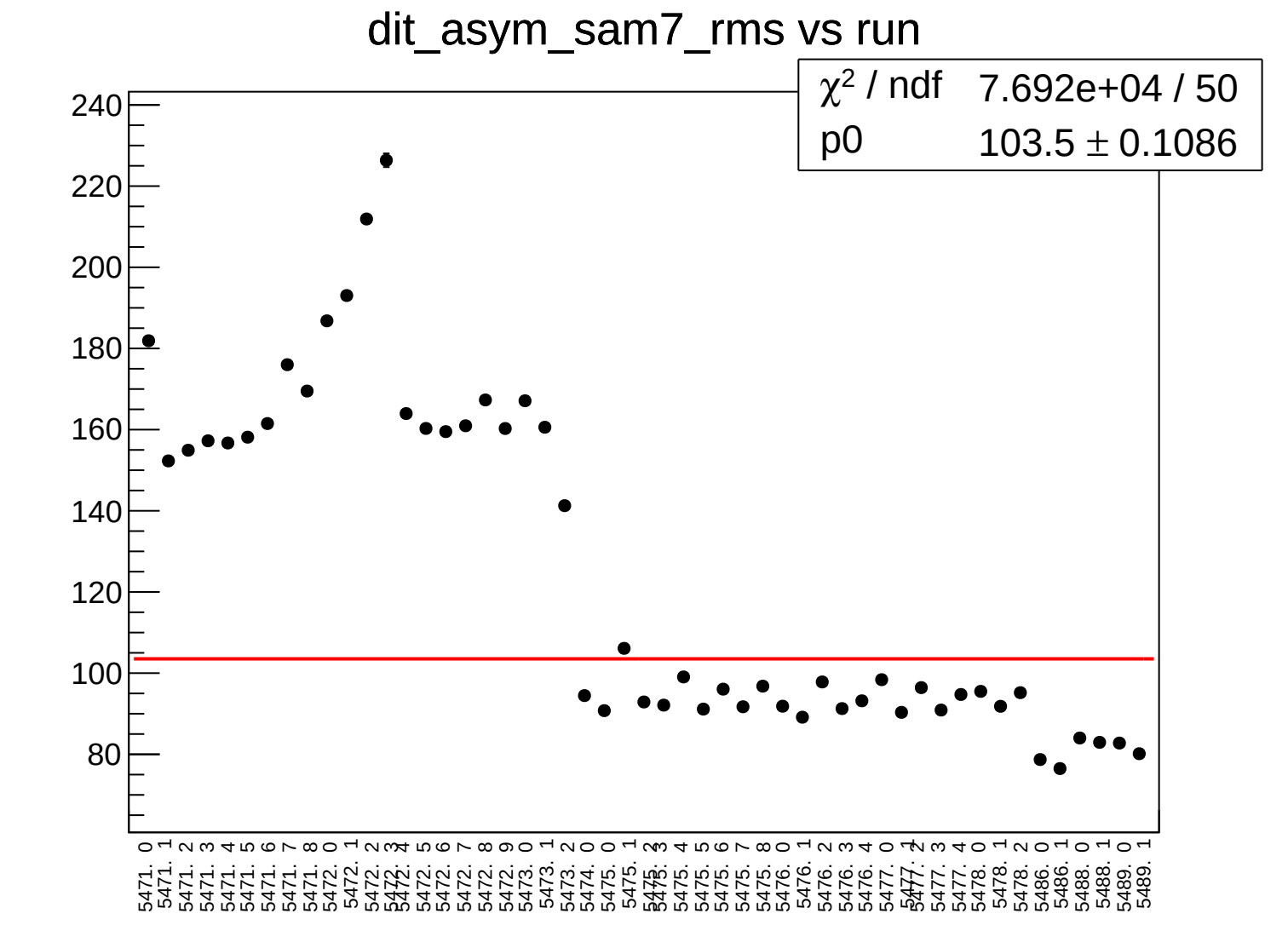

asym_sam6_mean vs run
χ^2 / ndf 54.95 / 50
p0 1254 ± 584.7
15000
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −118.7
Std Dev 145.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

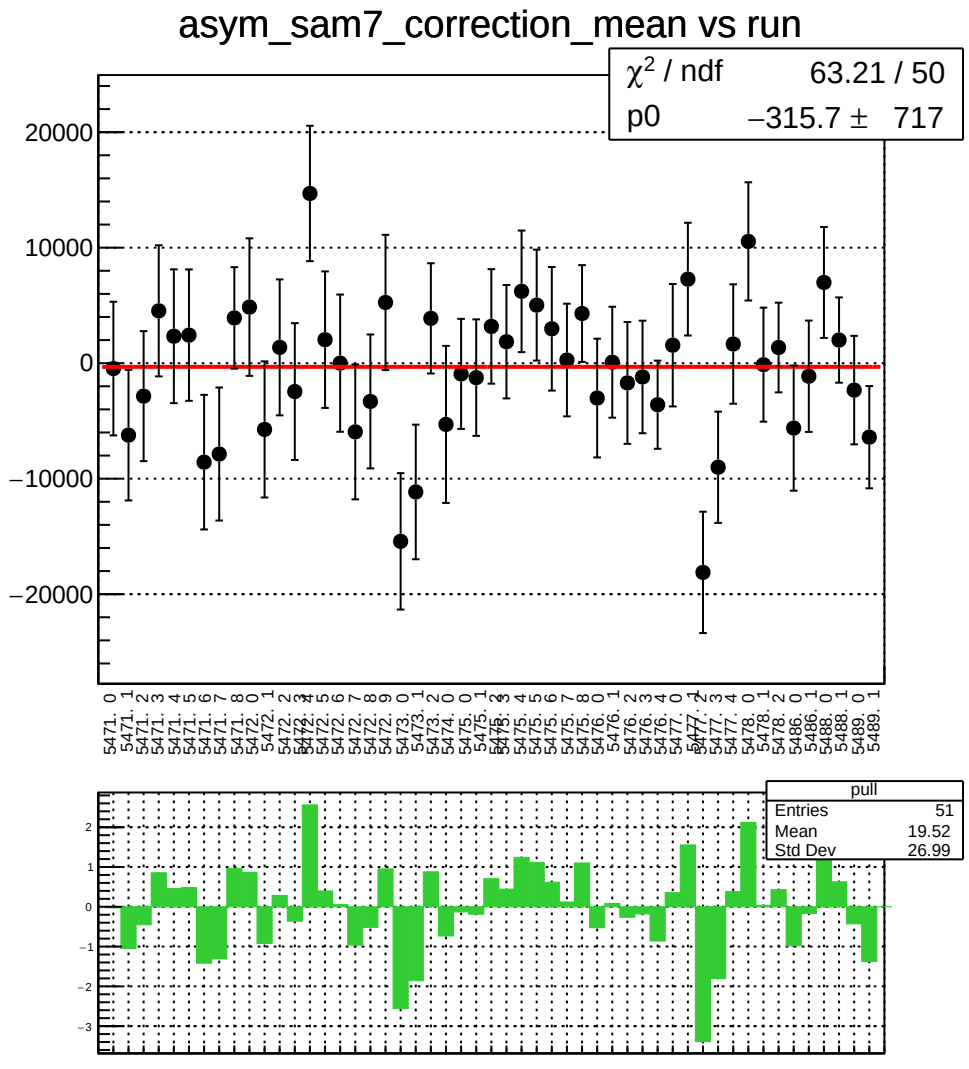

pull1D
Entries 51
Mean −0.01467
Std Dev 1.038
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

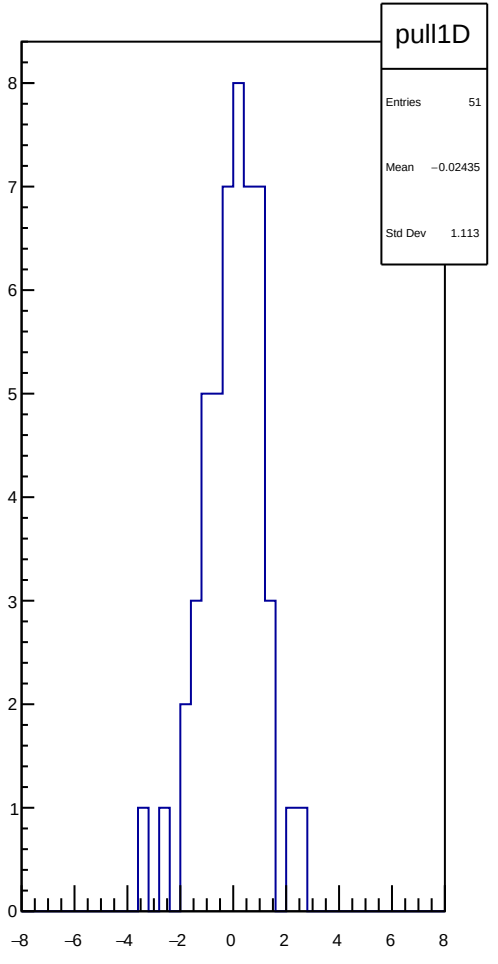

asym_sam6_rms vs run
χ² / ndf 3113 / 50
p0 409.8 ± 0.4135
540
520
500
480
460
440
420
400
380
360
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

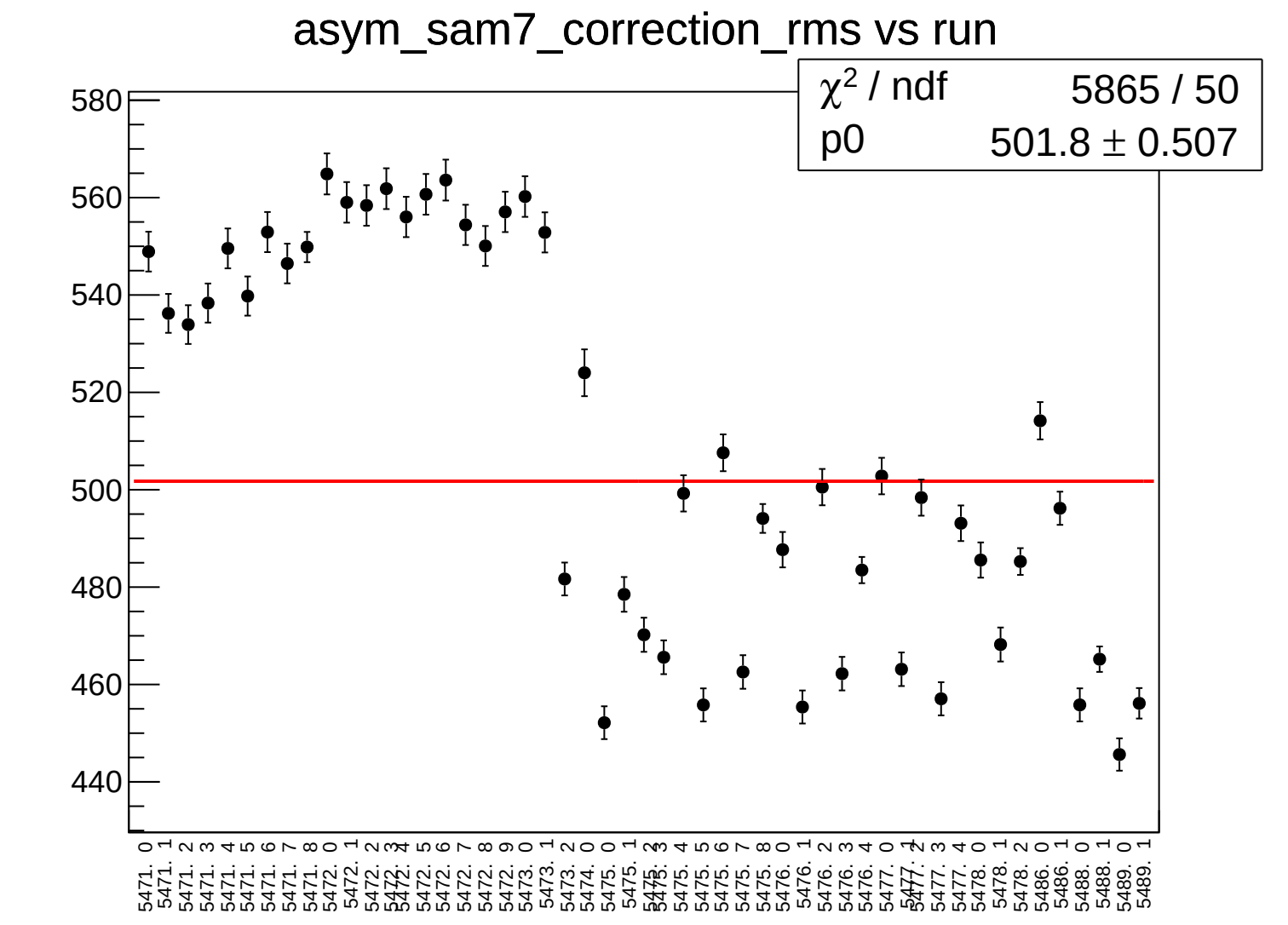

dit_asym_sam7_mean vs run
χ² / ndf 48.74 / 50
p0 168.4 ± 153.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean −222.9
Std Dev 249.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

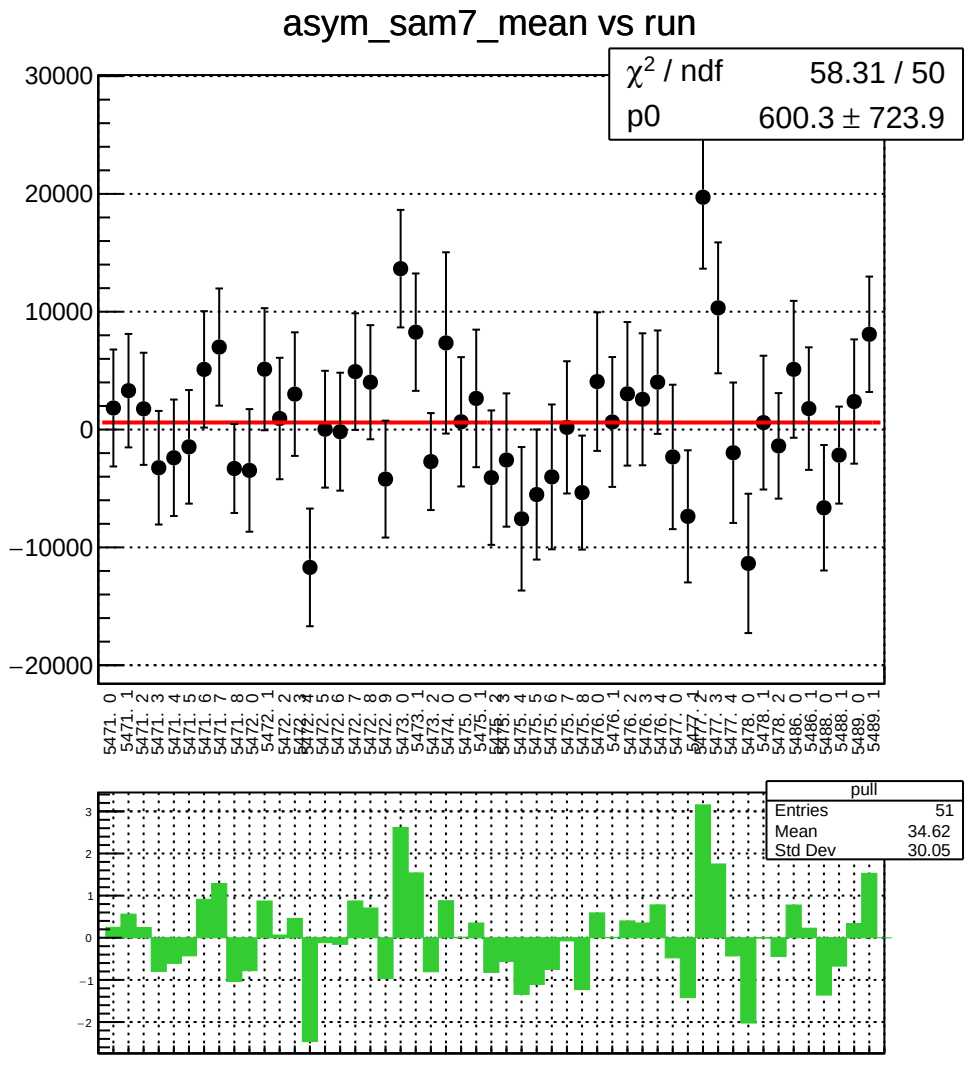

pull1D
Entries 51
Mean −0.006726
Std Dev 0.9775
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

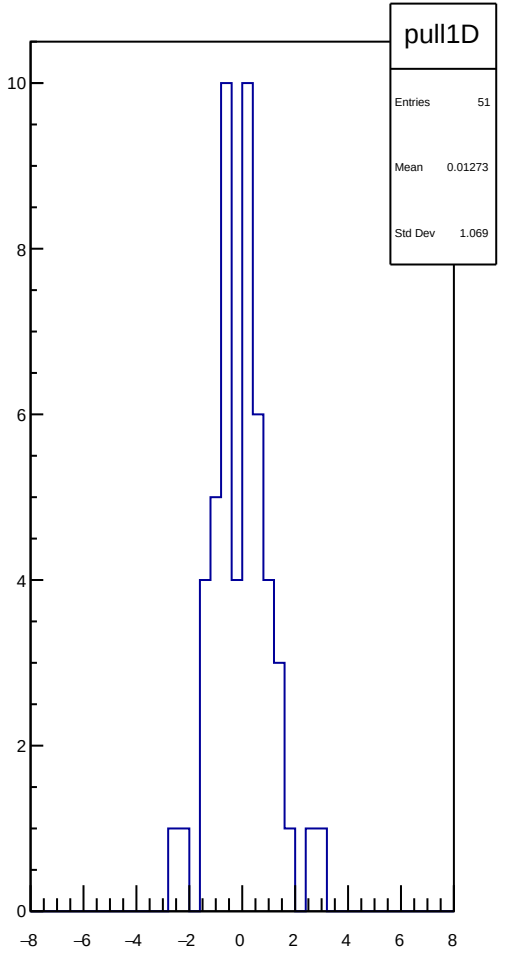

dit_asym_sam7_rms vs run
χ² / ndf 7.692e+04 / 50
p0 103.5 ± 0.1086
240
220
200
180
160
140
120
100
80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

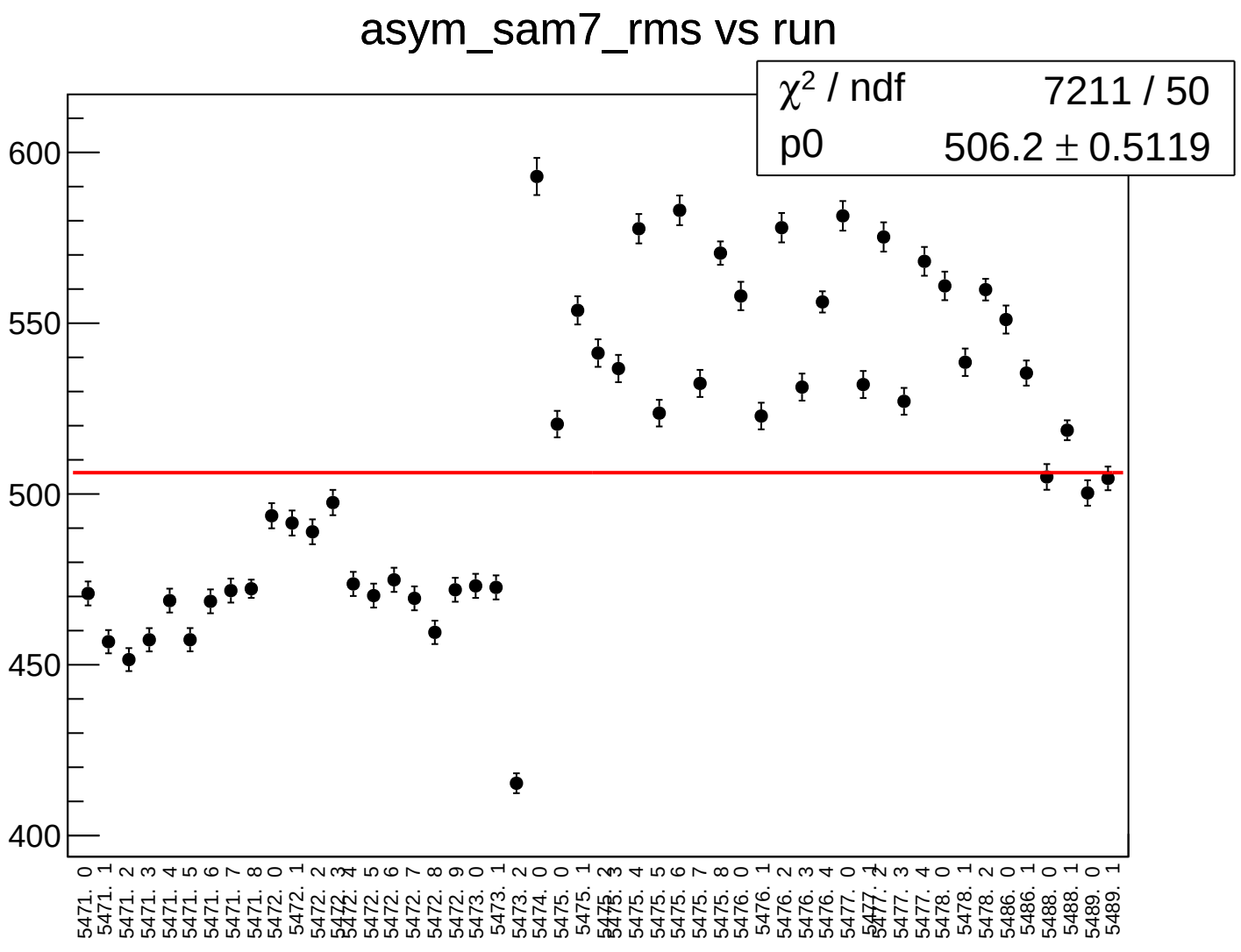

asym_sam7_correction_mean vs run
χ² / ndf 63.21 / 50
p0 −315.7 ± 717
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 19.52
Std Dev 26.99
2
1
0
−1
−2
−3

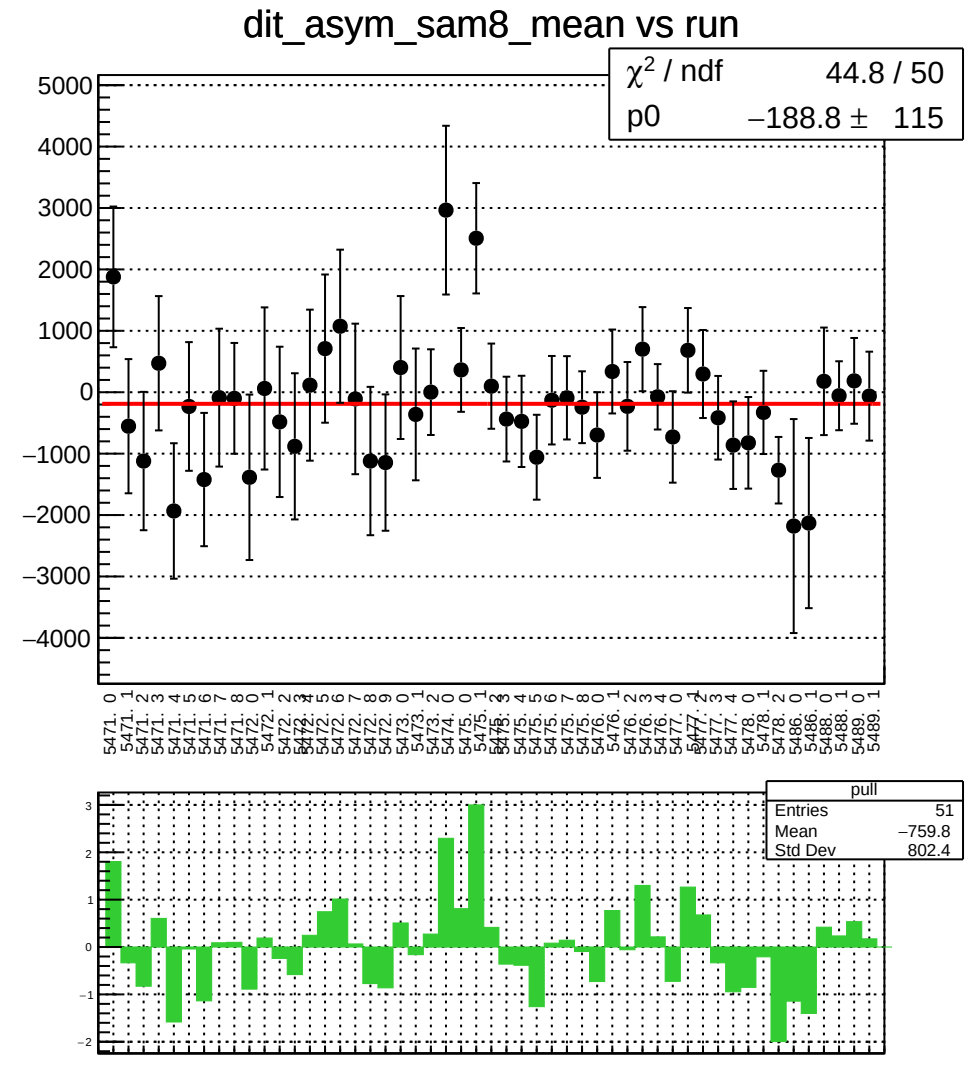

pull1D
Entries 51
Mean −0.02435
Std Dev 1.113
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

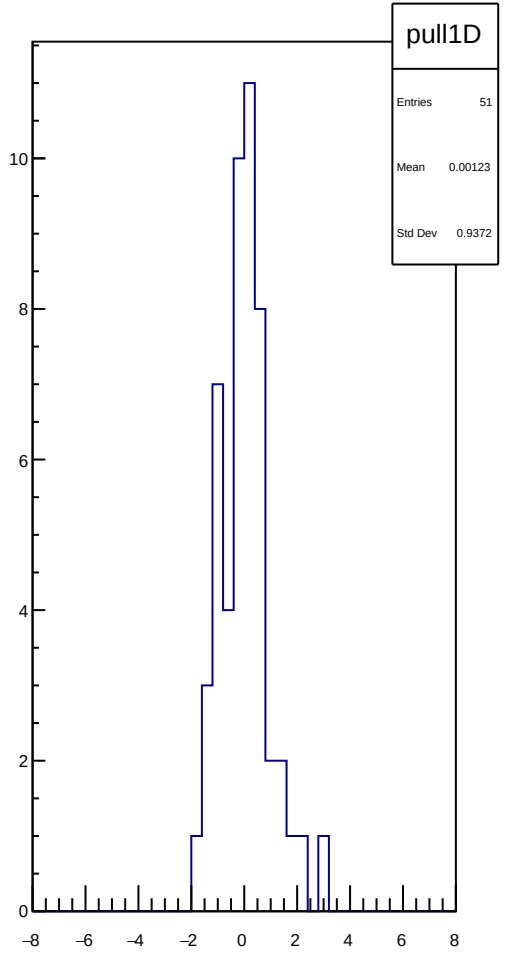

asym_sam7_correction_rms vs run
χ² / ndf 5865 / 50
p0 501.8 ± 0.507
580
560
540
520
500
480
460
440
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

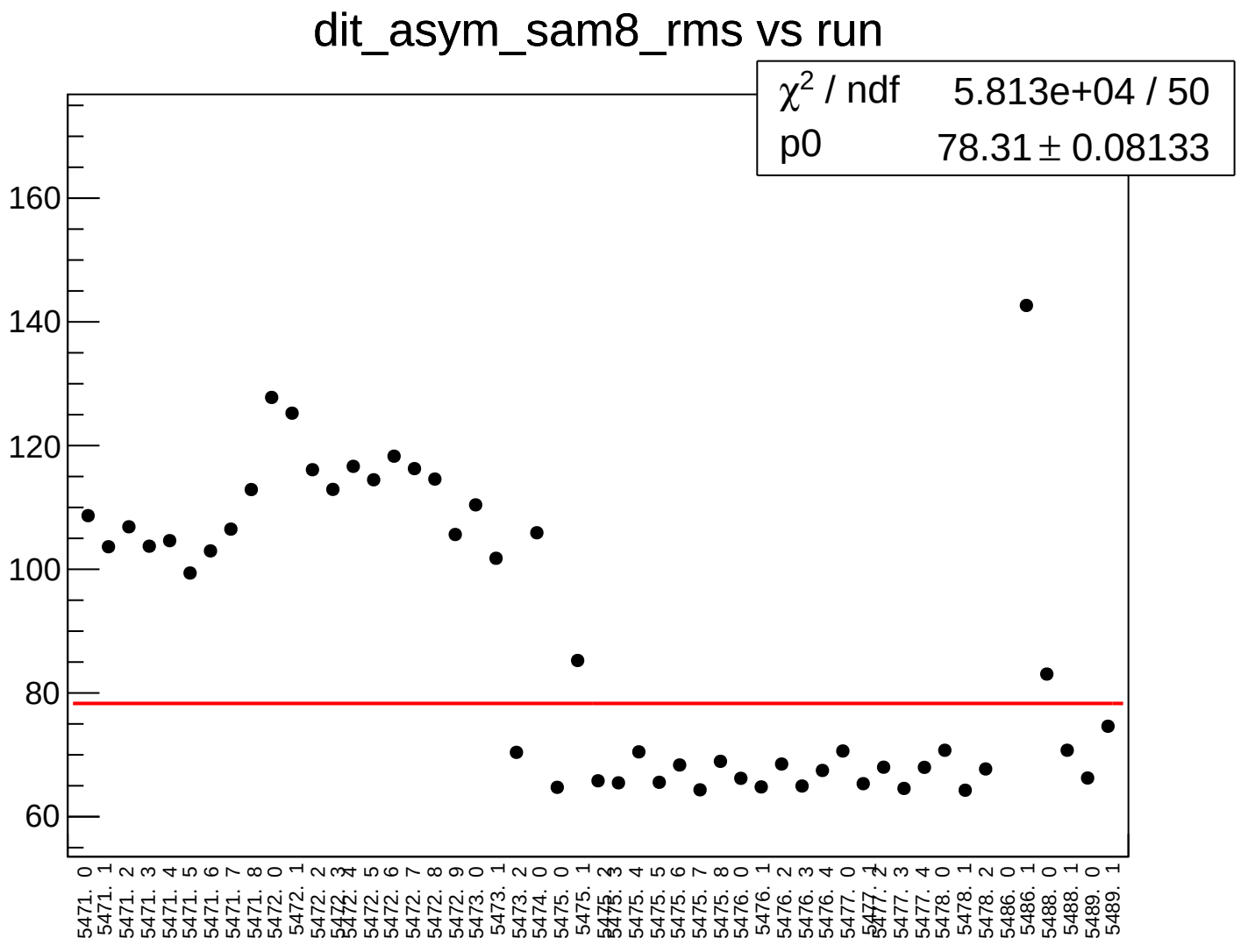

asym_sam7_mean vs run
χ^2 / ndf 58.31 / 50
p0 600.3 ± 723.9
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 34.62
Std Dev 30.05
3
2
1
0
−1
−2

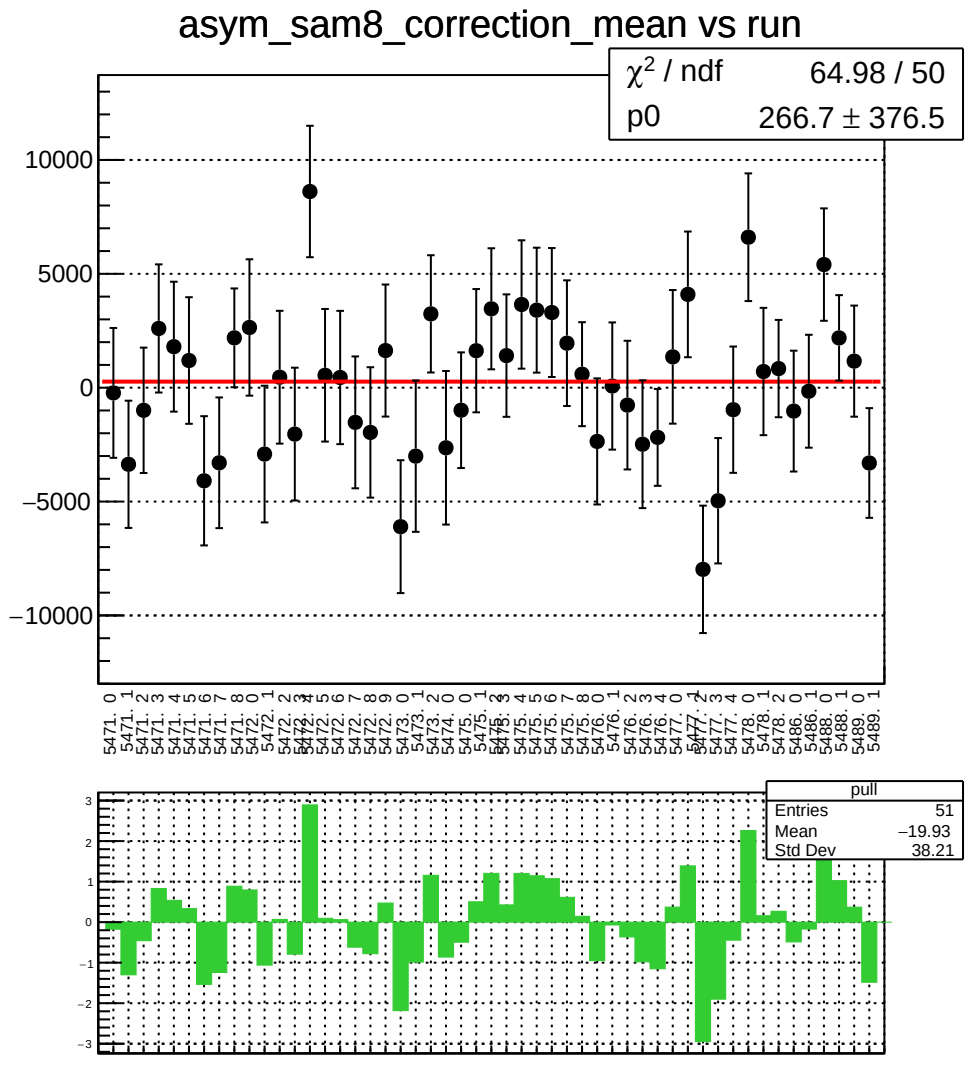

pull1D
Entries 51
Mean 0.01273
Std Dev 1.069
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

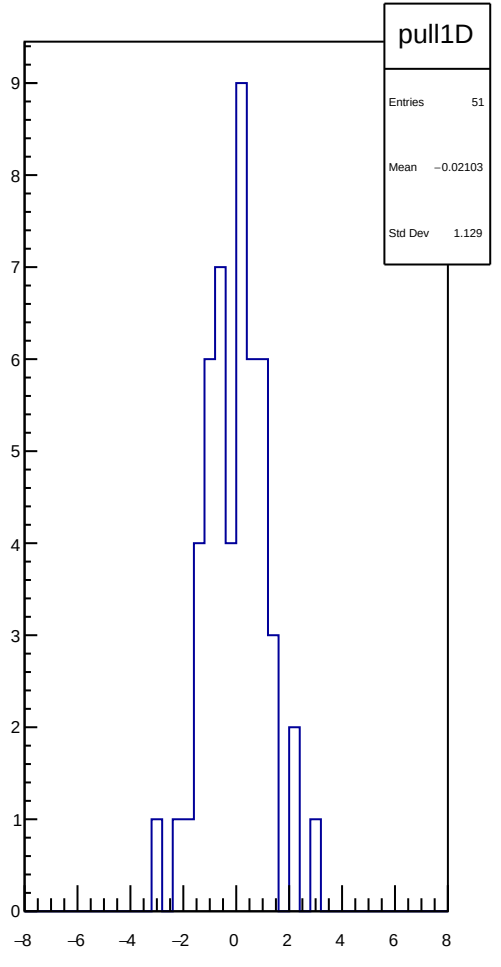

asym_sam7_rms vs run
χ² / ndf 7211 / 50
p0 506.2 ± 0.5119
600
550
500
450
400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

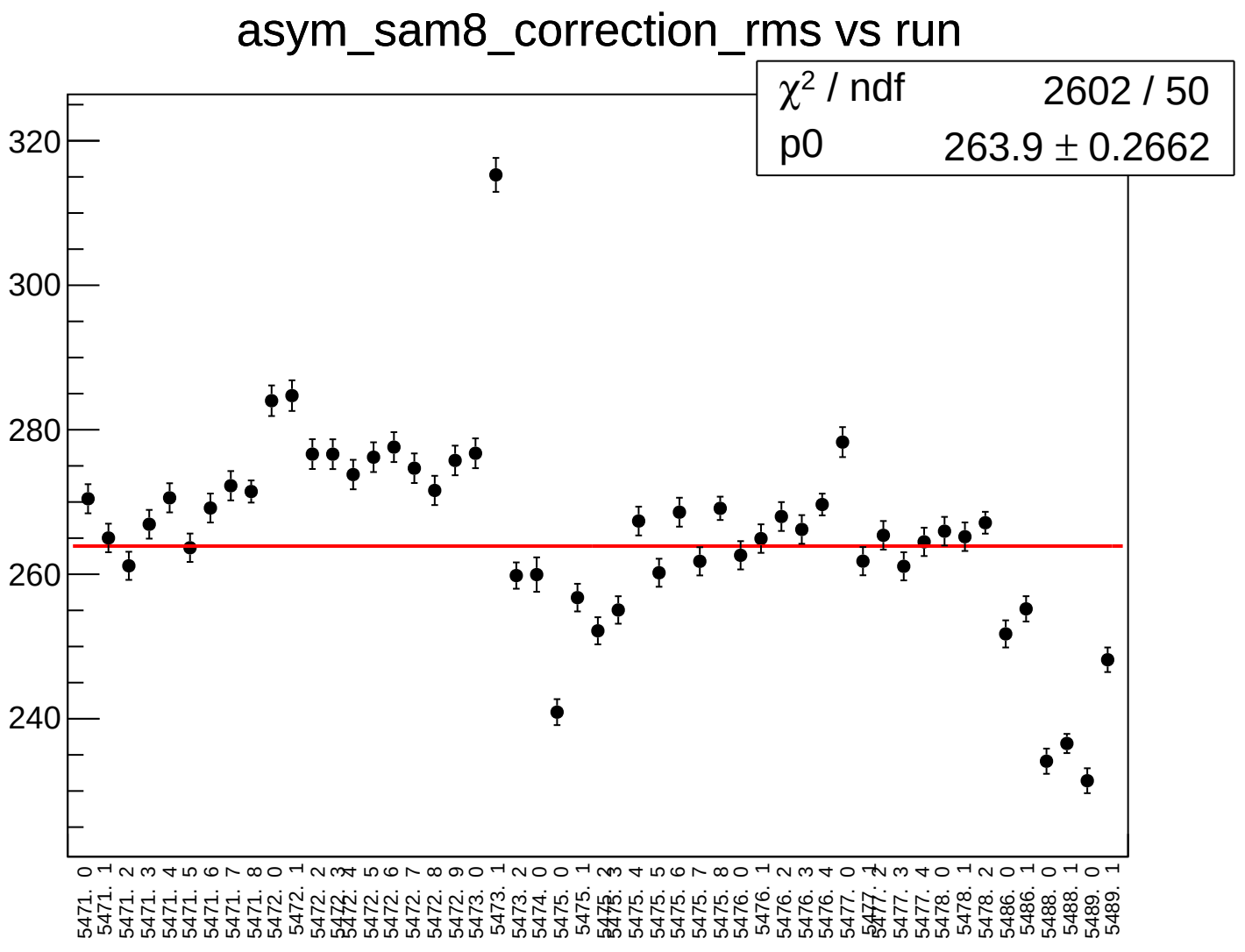

dit_asym_sam8_mean vs run
χ² / ndf 44.8 / 50
p0 −188.8 ± 115
pull
Entries 51
Mean −759.8
Std Dev 802.4

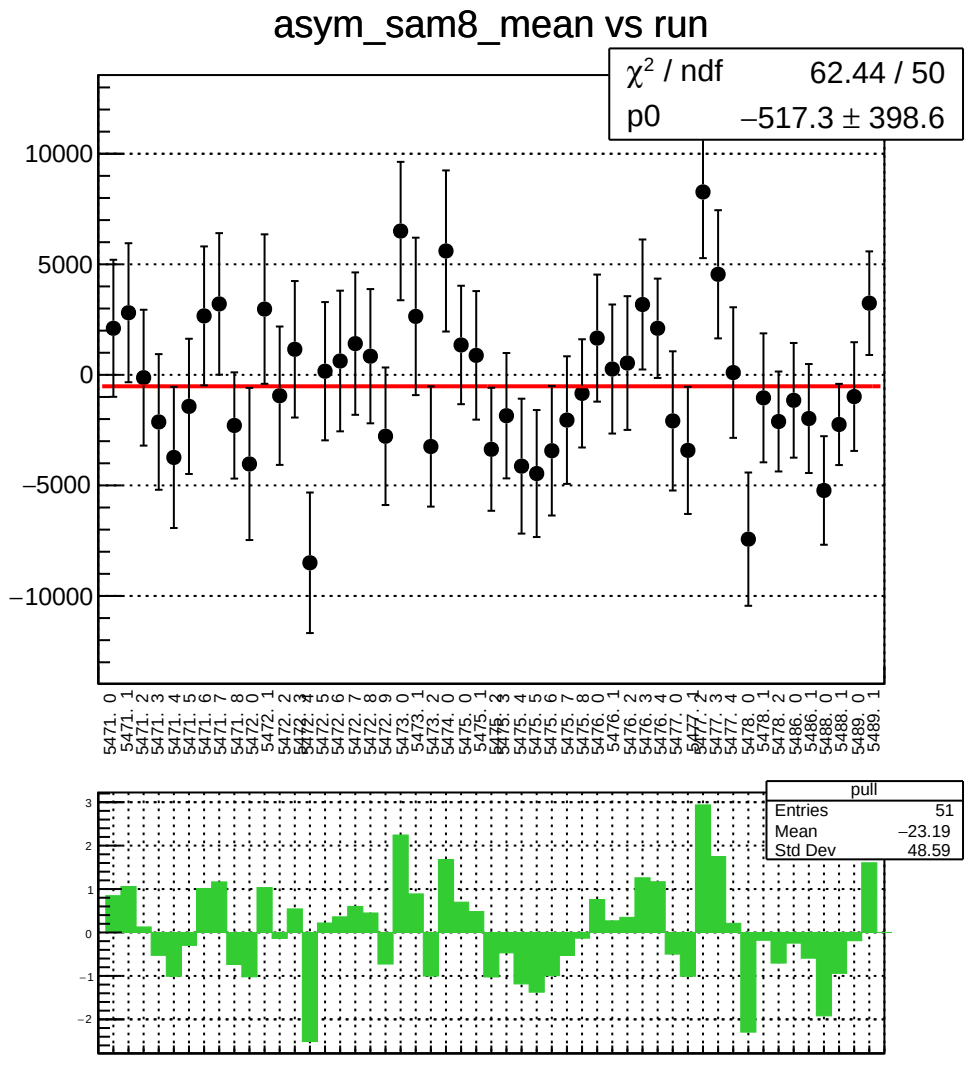

pull1D
Entries 51
Mean 0.00123
Std Dev 0.9372

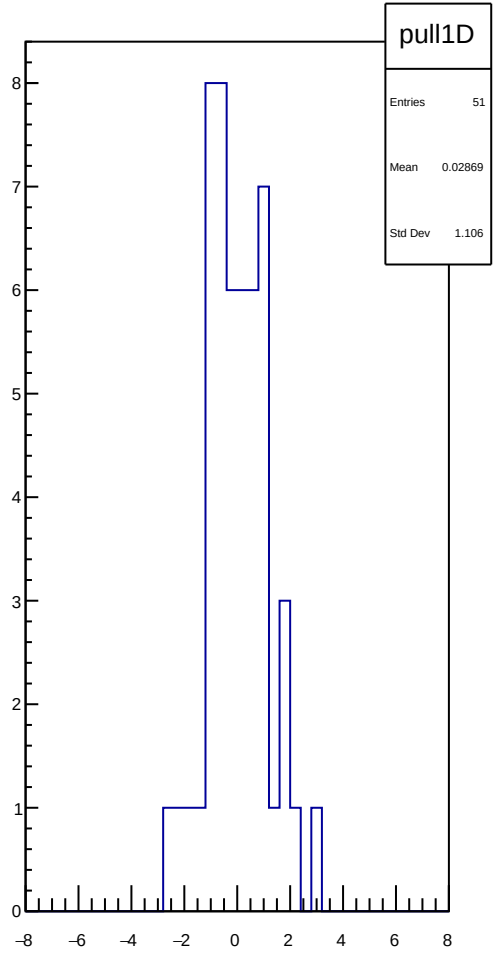

dit_asym_sam8_rms vs run
χ^2 / ndf 5.813e+04 / 50
p0 78.31 ± 0.08133
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

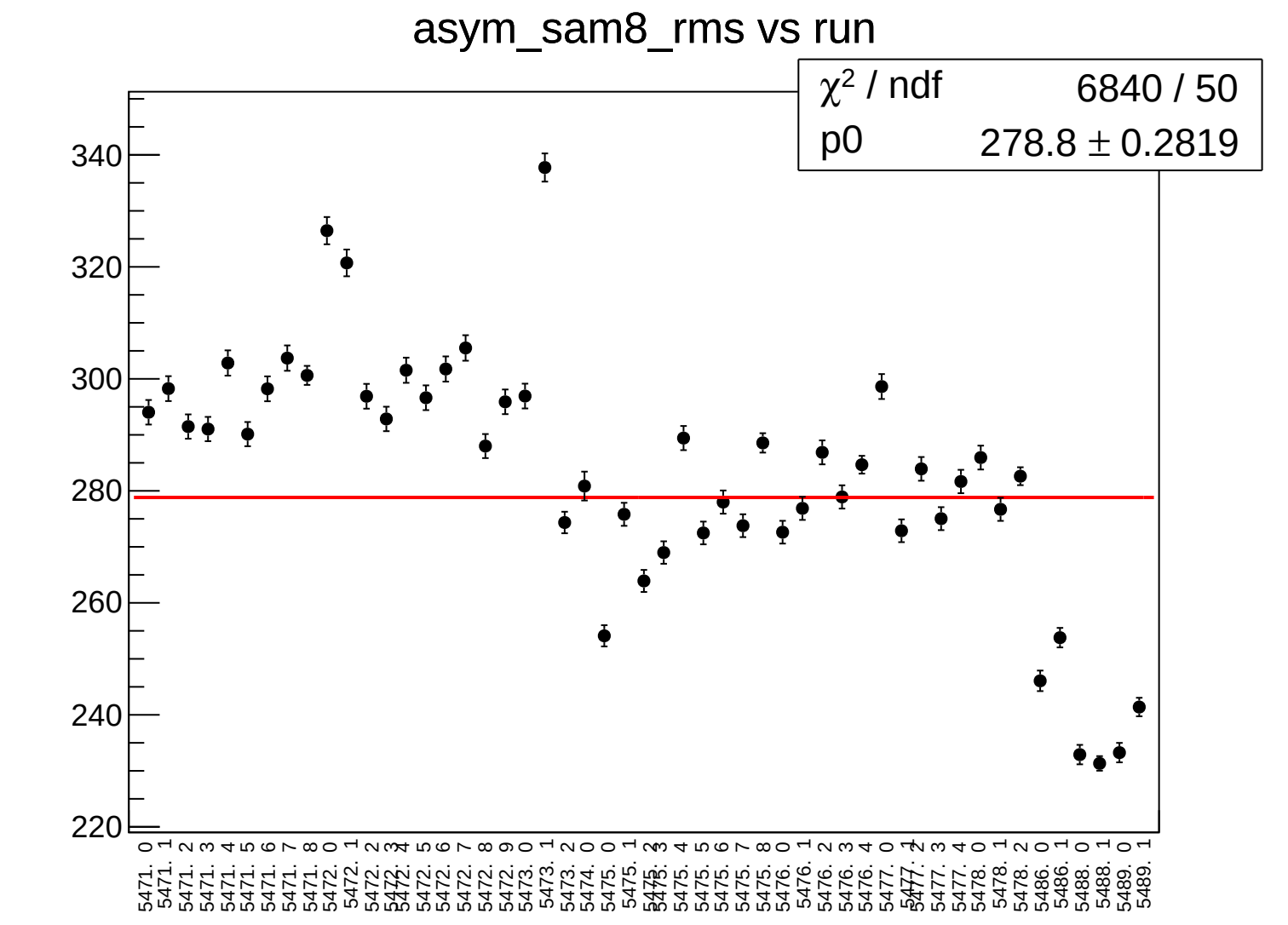

asym_sam8_correction_mean vs run
χ² / ndf 64.98 / 50
p0 266.7 ± 376.5
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −19.93
Std Dev 38.21
3
2
1
0
−1
−2
−3

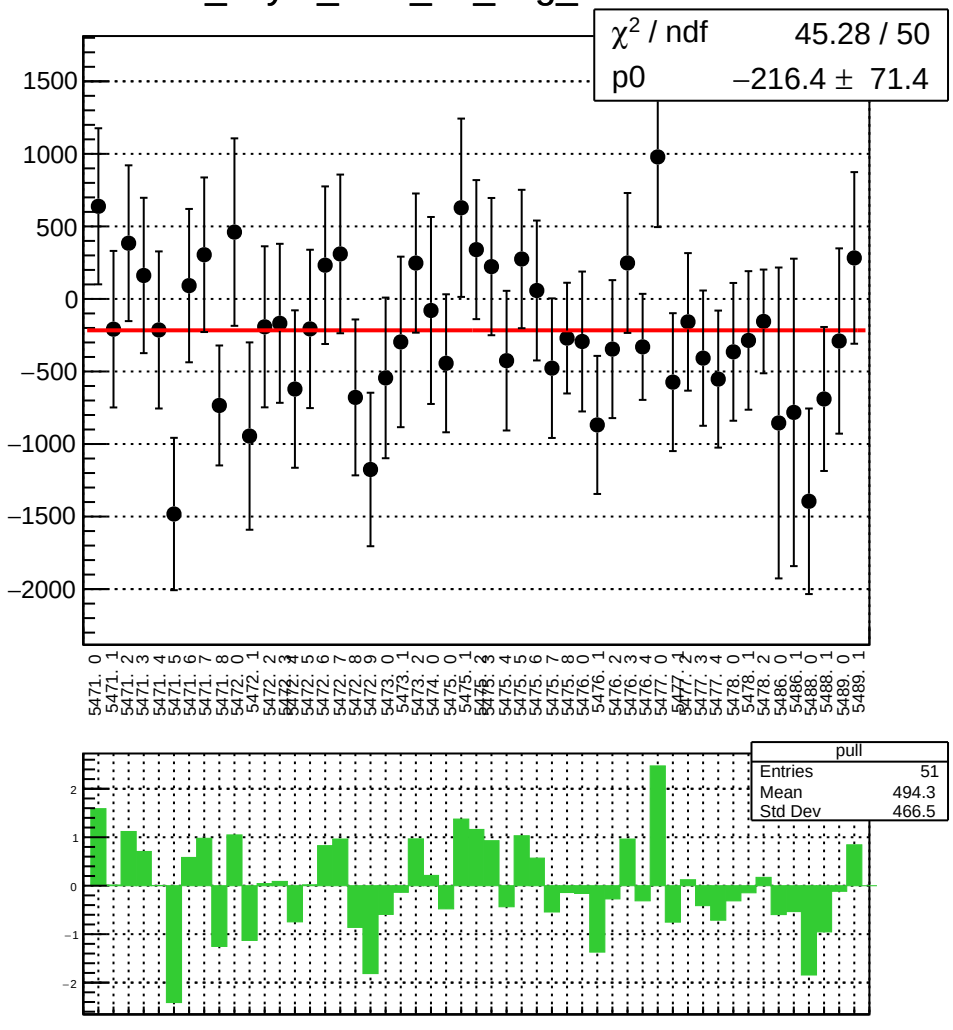

pull1D
Entries 51
Mean −0.02103
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

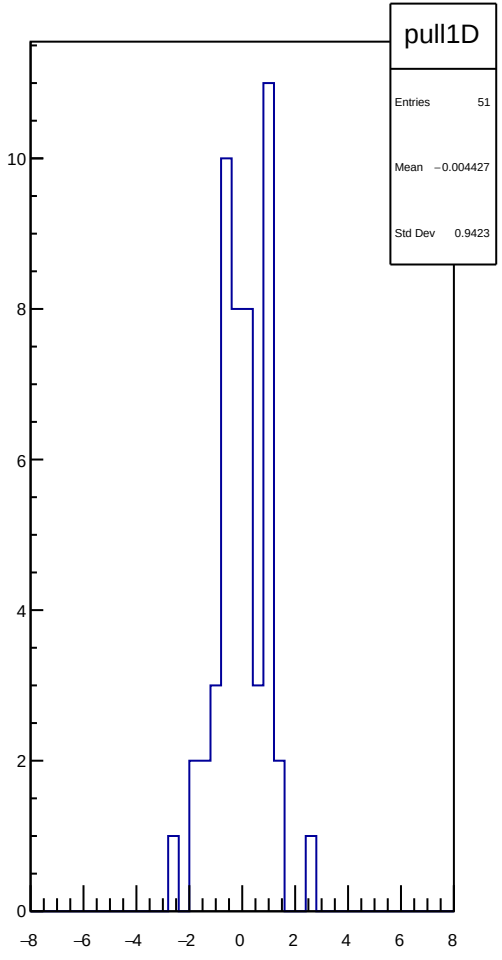

asym_sam8_correction_rms vs run
χ² / ndf 2602 / 50
p0 263.9 ± 0.2662
320
300
280
260
240
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

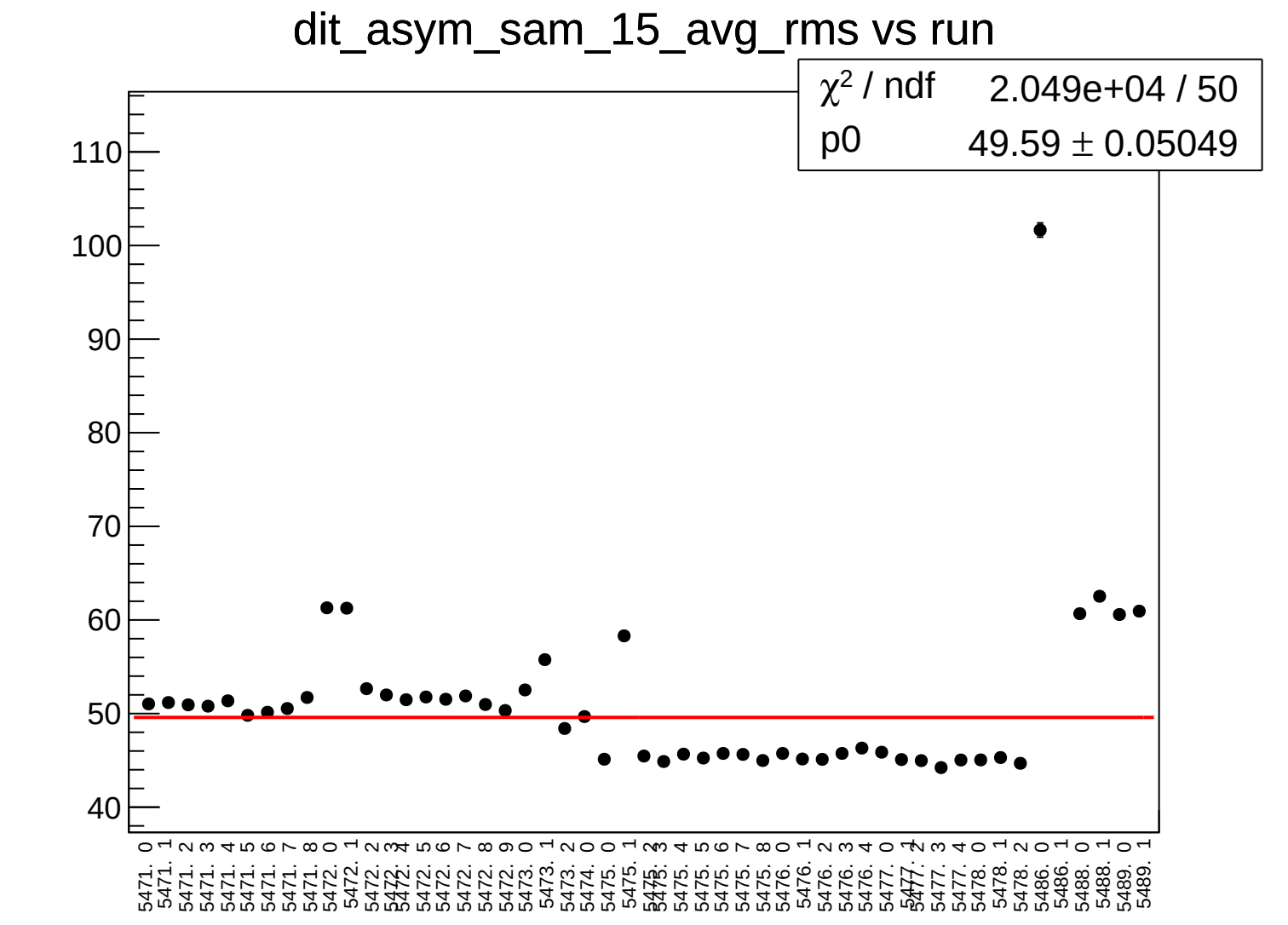

asym_sam8_mean vs run
χ² / ndf 62.44 / 50
p0 −517.3 ± 398.6
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −23.19
Std Dev 48.59
3
2
1
0
−1
−2

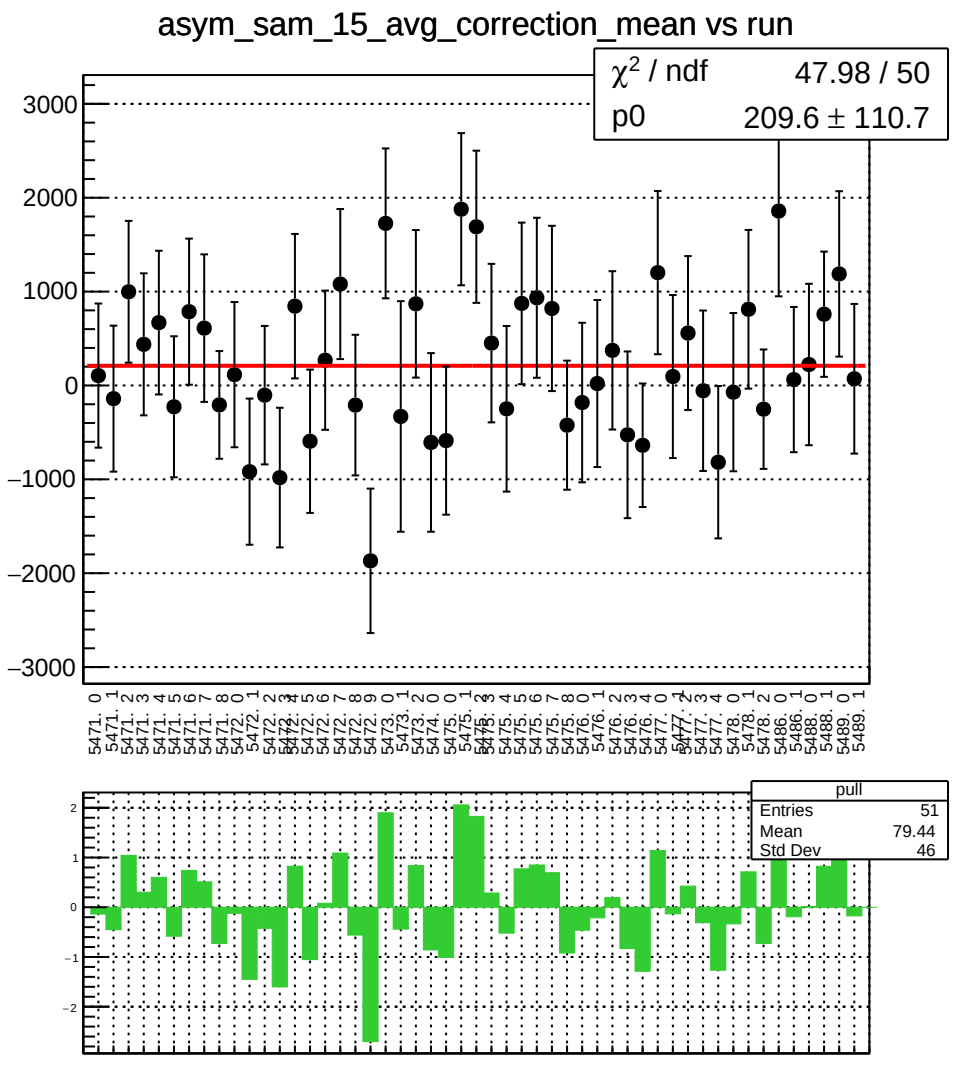

pull1D
Entries 51
Mean 0.02869
Std Dev 1.106
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

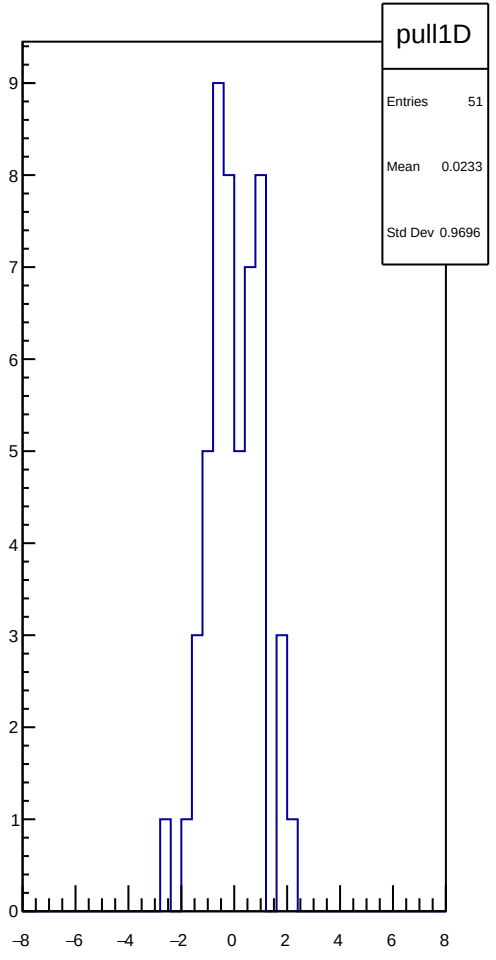

asym_sam8_rms vs run
χ² / ndf 6840 / 50
p0 278.8 ± 0.2819
340
320
300
280
260
240
220
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

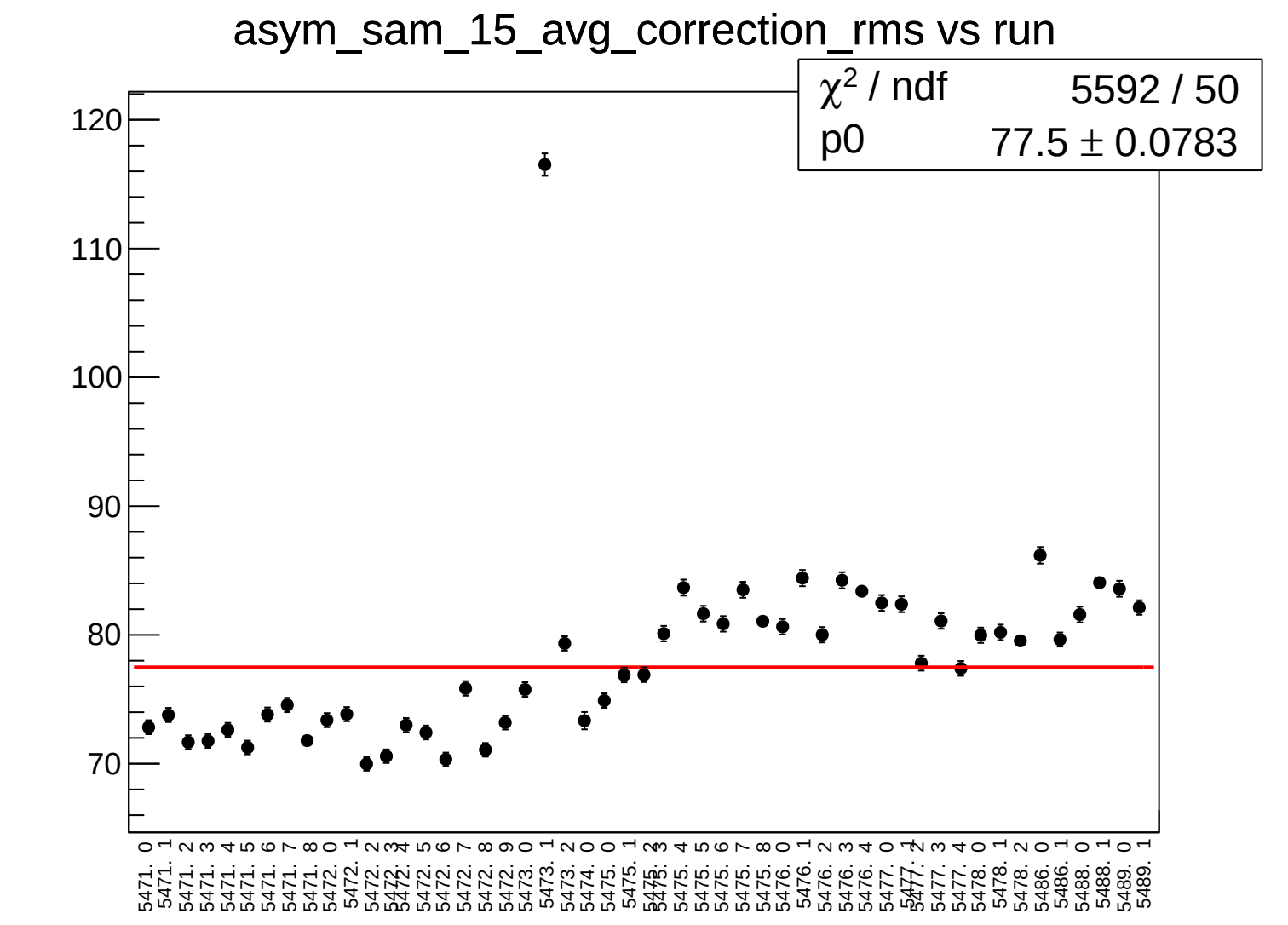

dit_asym_sam_15_avg_mean vs run
χ² / ndf 45.28 / 50
p0 −216.4 ± 71.4
pull
Entries 51
Mean 494.3
Std Dev 466.5

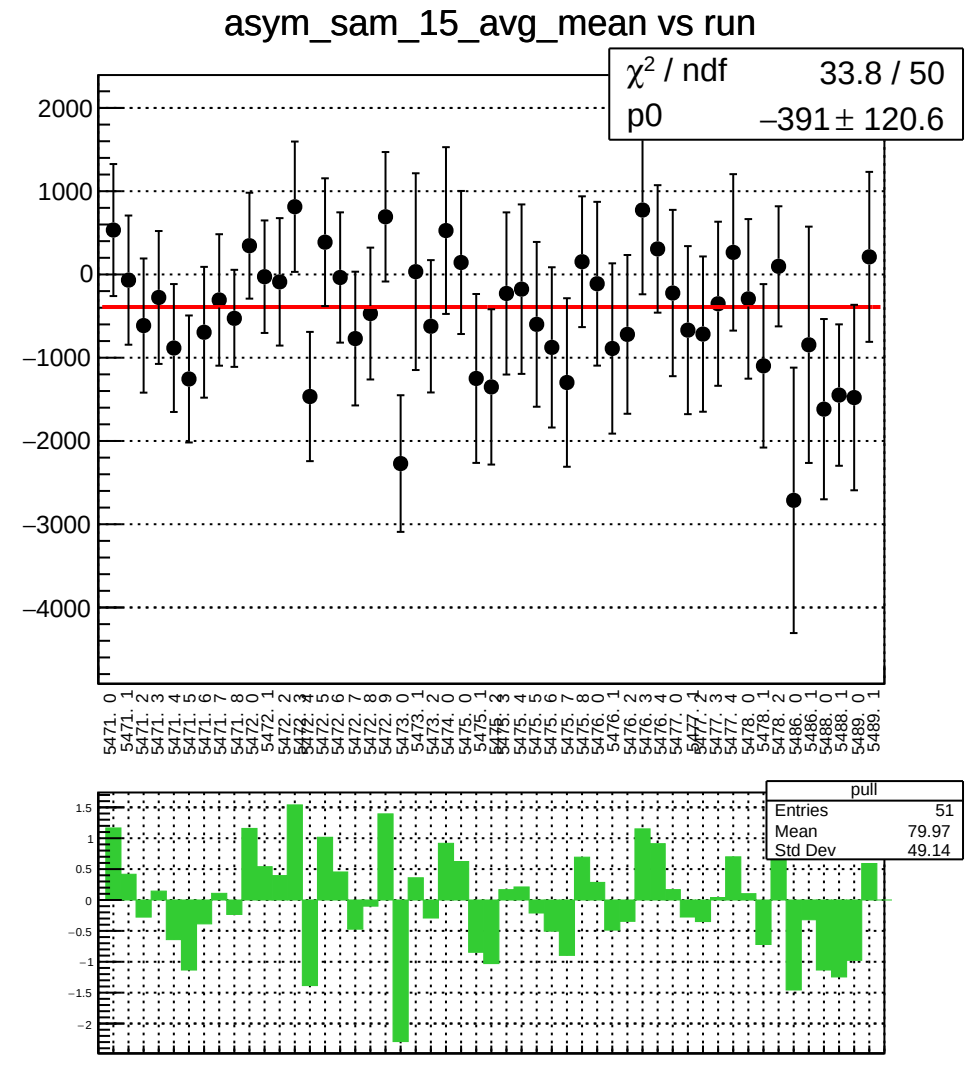

pull1D
Entries 51
Mean −0.004427
Std Dev 0.9423

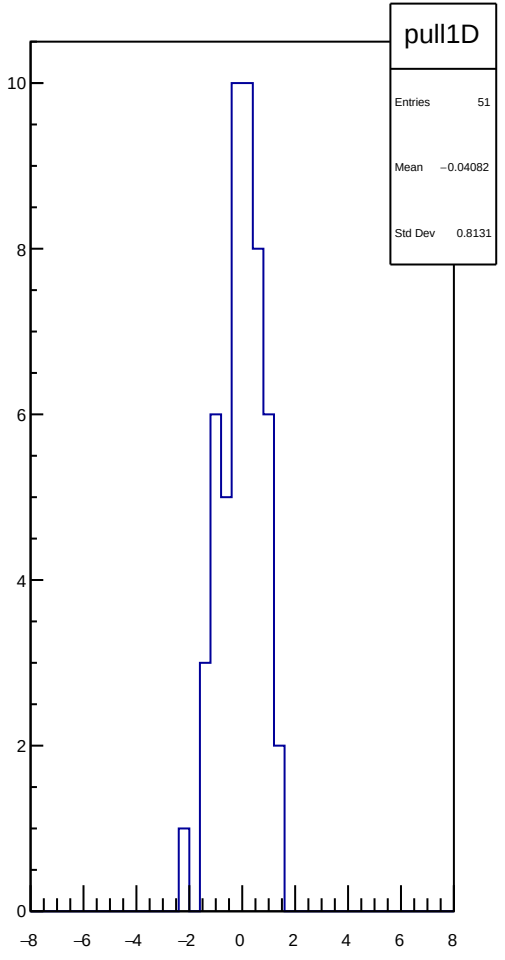

dit_asym_sam_15_avg_rms vs run
χ² / ndf 2.049e+04 / 50
p0 49.59 ± 0.05049
110
100
90
80
70
60
50
40
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

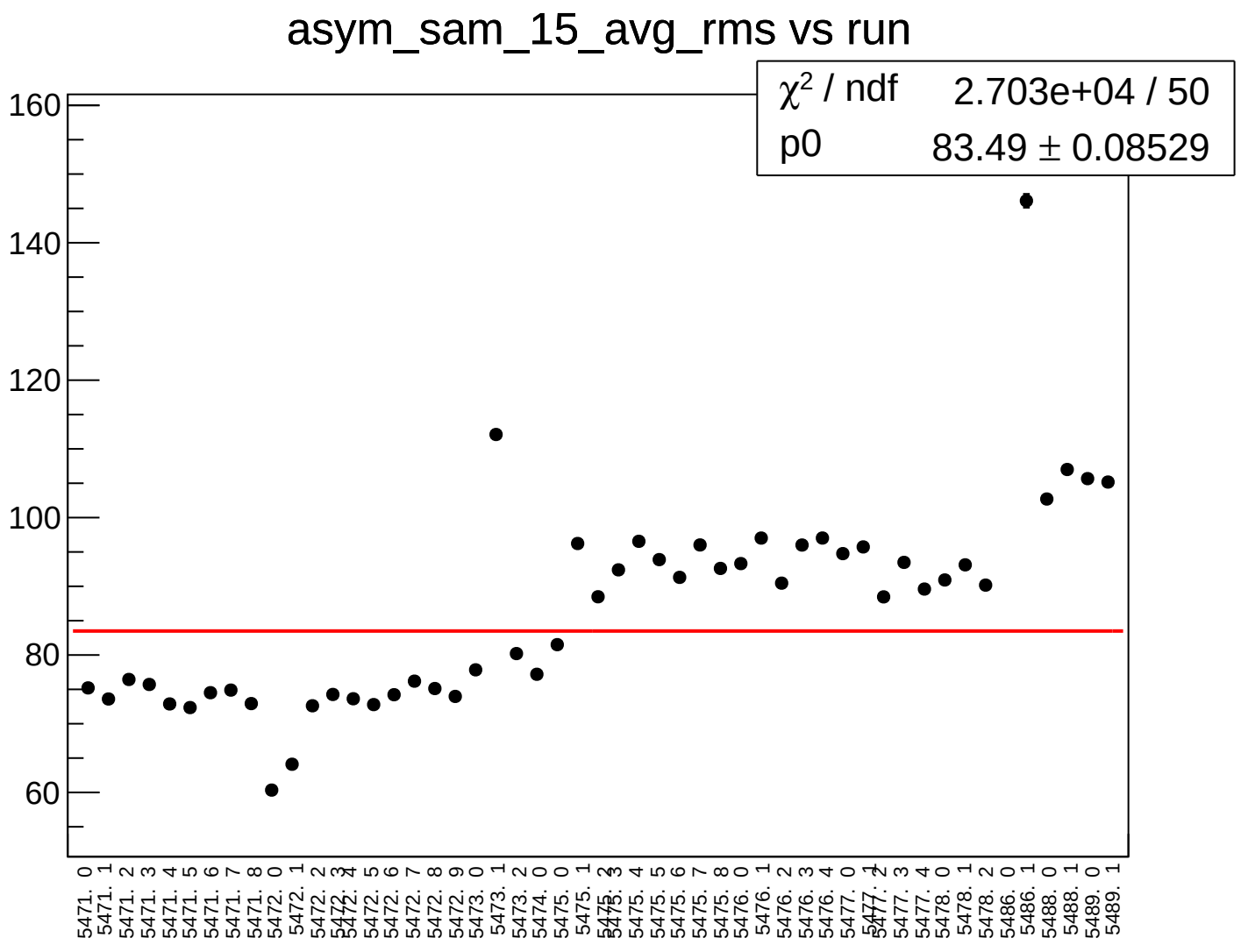

asym_sam_15_avg_correction_mean vs run
χ² / ndf 47.98 / 50
p0 209.6 ± 110.7
pull
Entries 51
Mean 79.44
Std Dev 46

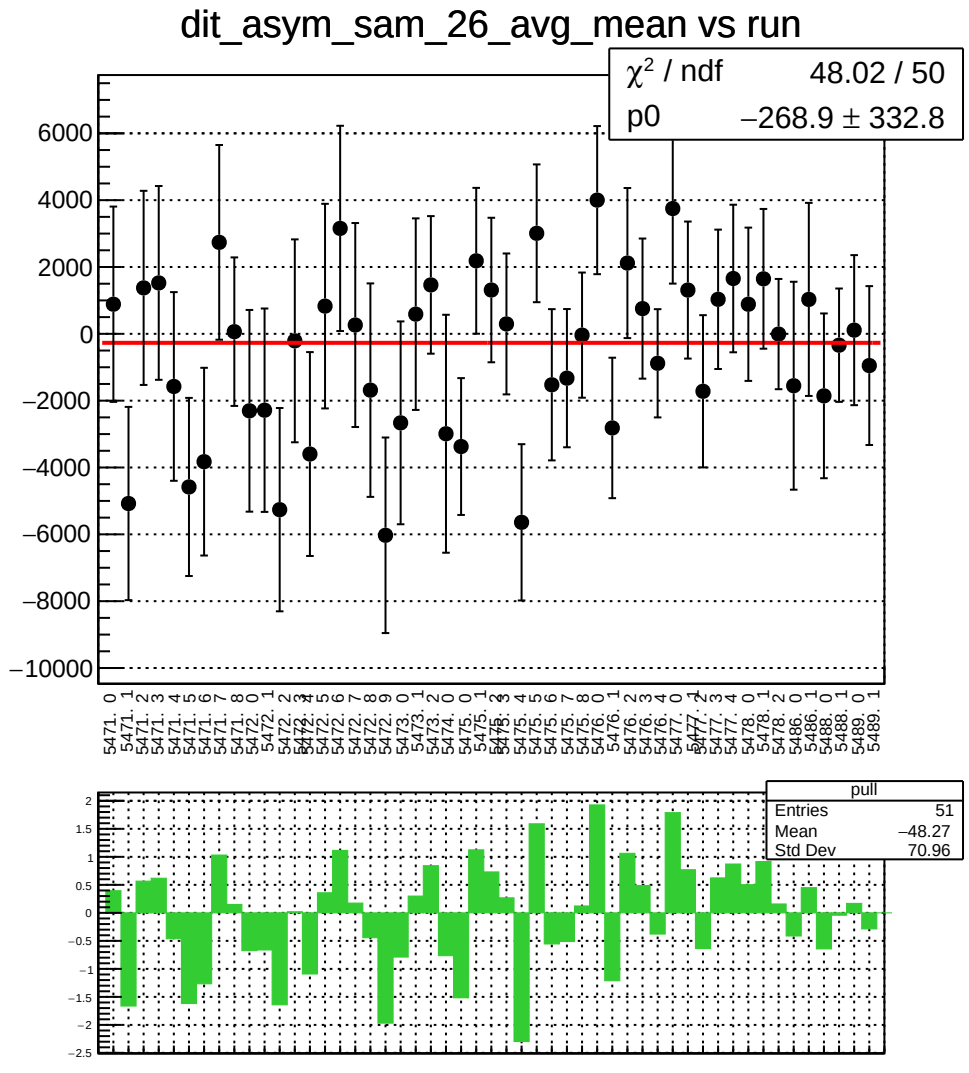

pull1D
Entries 51
Mean 0.0233
Std Dev 0.9696

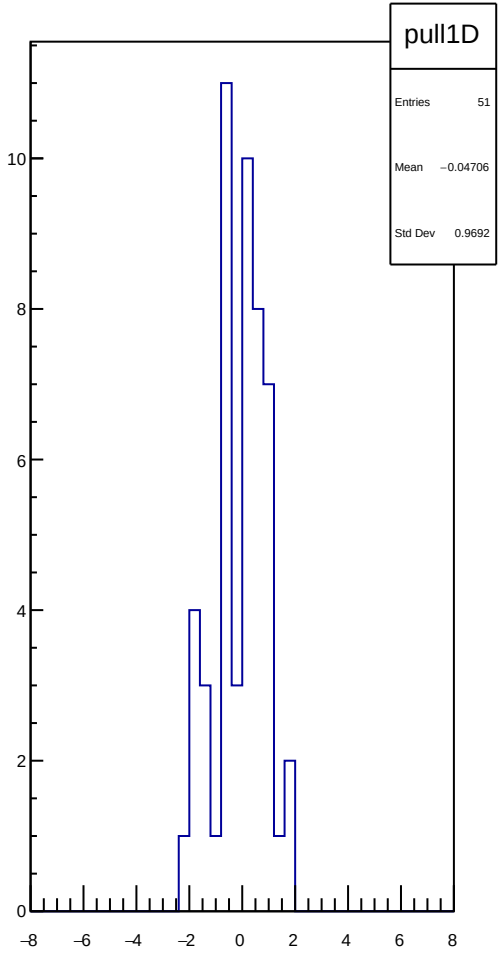

asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 5592 / 50
p0 77.5 ± 0.0783
120
110
100
90
80
70
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

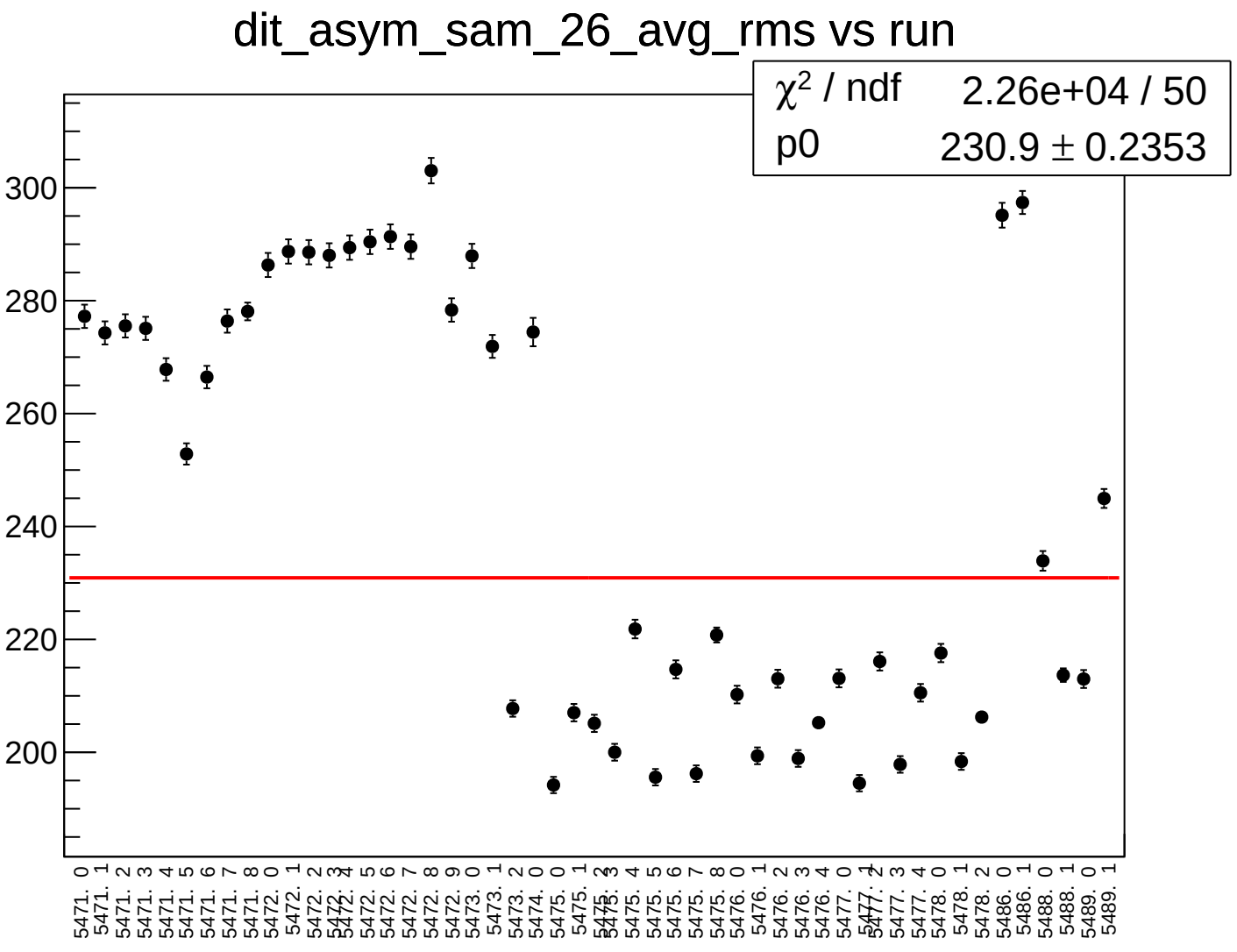

asym_sam_15_avg_mean vs run
χ² / ndf 33.8 / 50
p0 −391 ± 120.6
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 51
Mean 79.97
Std Dev 49.14
1.5
1
0.5
0
−0.5
−1
−1.5
−2

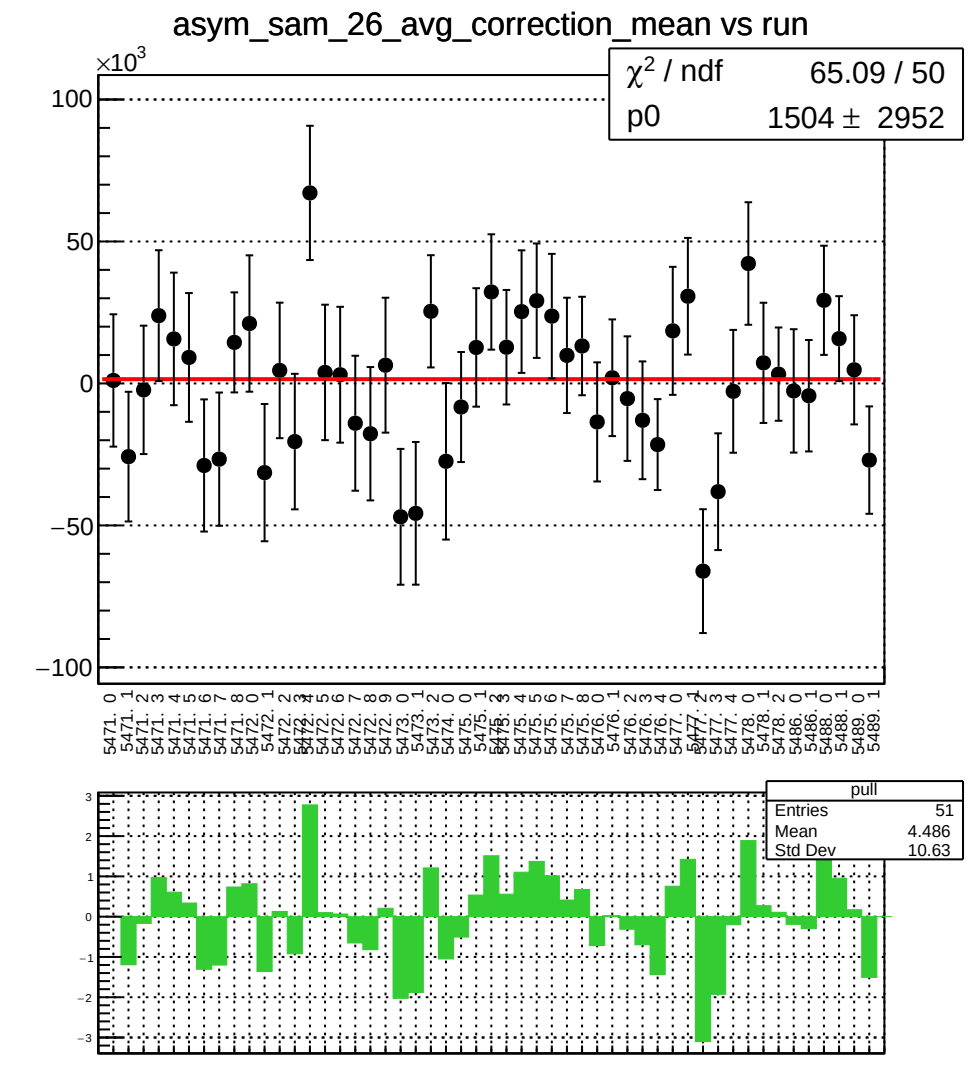

pull1D
Entries 51
Mean −0.04082
Std Dev 0.8131
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

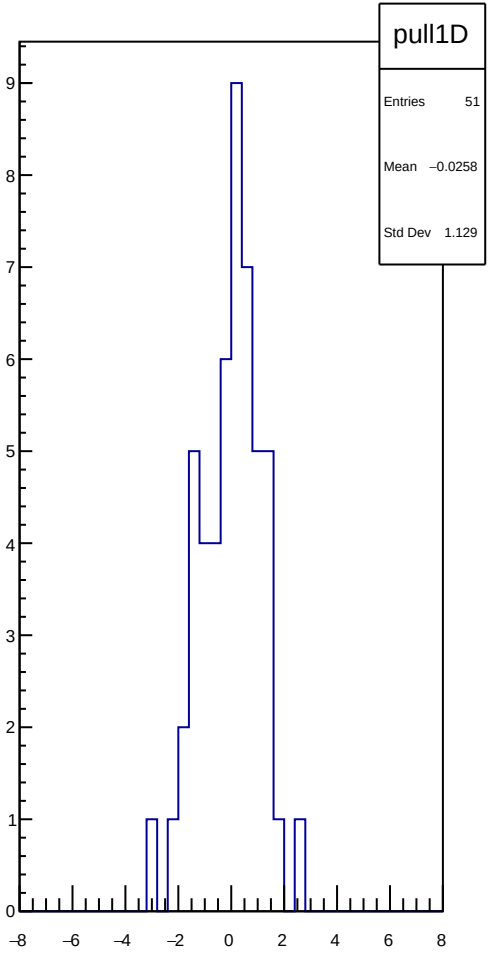

asym_sam_15_avg_rms vs run
χ² / ndf 2.703e+04 / 50
p0 83.49 ± 0.08529
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

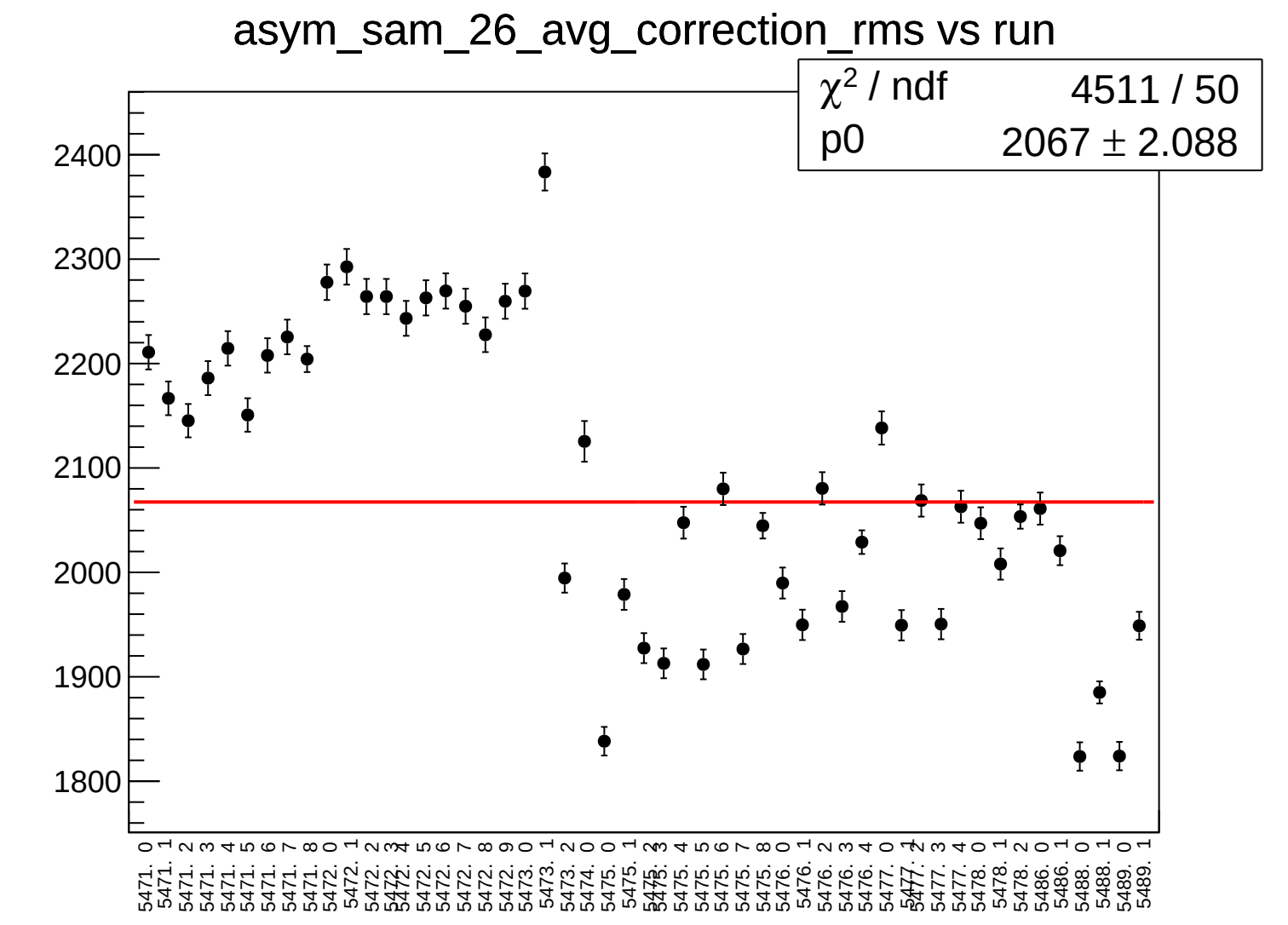

dit_asym_sam_26_avg_mean vs run
χ² / ndf 48.02 / 50
p0 −268.9 ± 332.8
pull
Entries 51
Mean −48.27
Std Dev 70.96

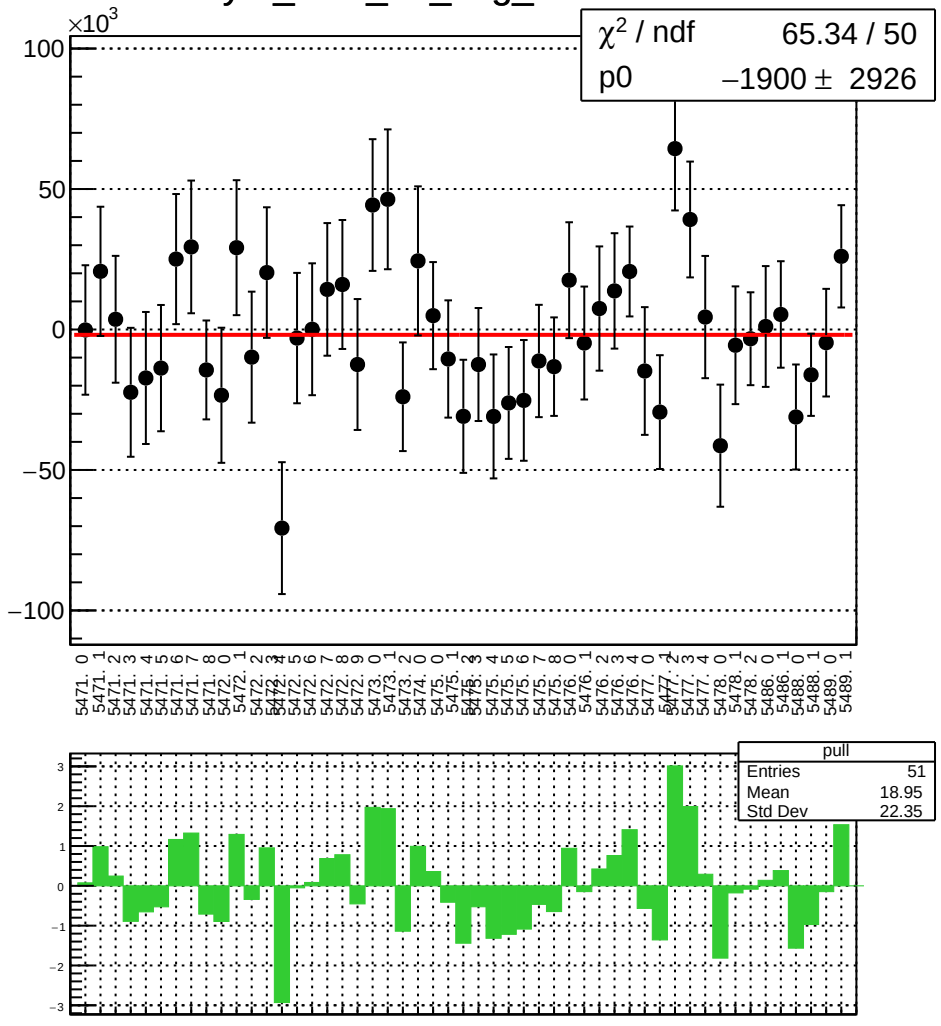

pull1D
Entries 51
Mean −0.04706
Std Dev 0.9692

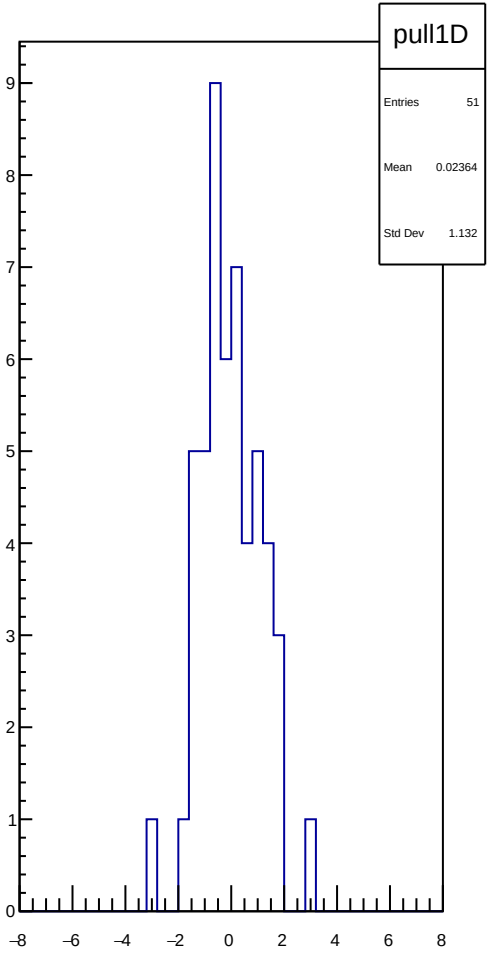

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.26e+04 / 50
p0 230.9 ± 0.2353
300
280
260
240
220
200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

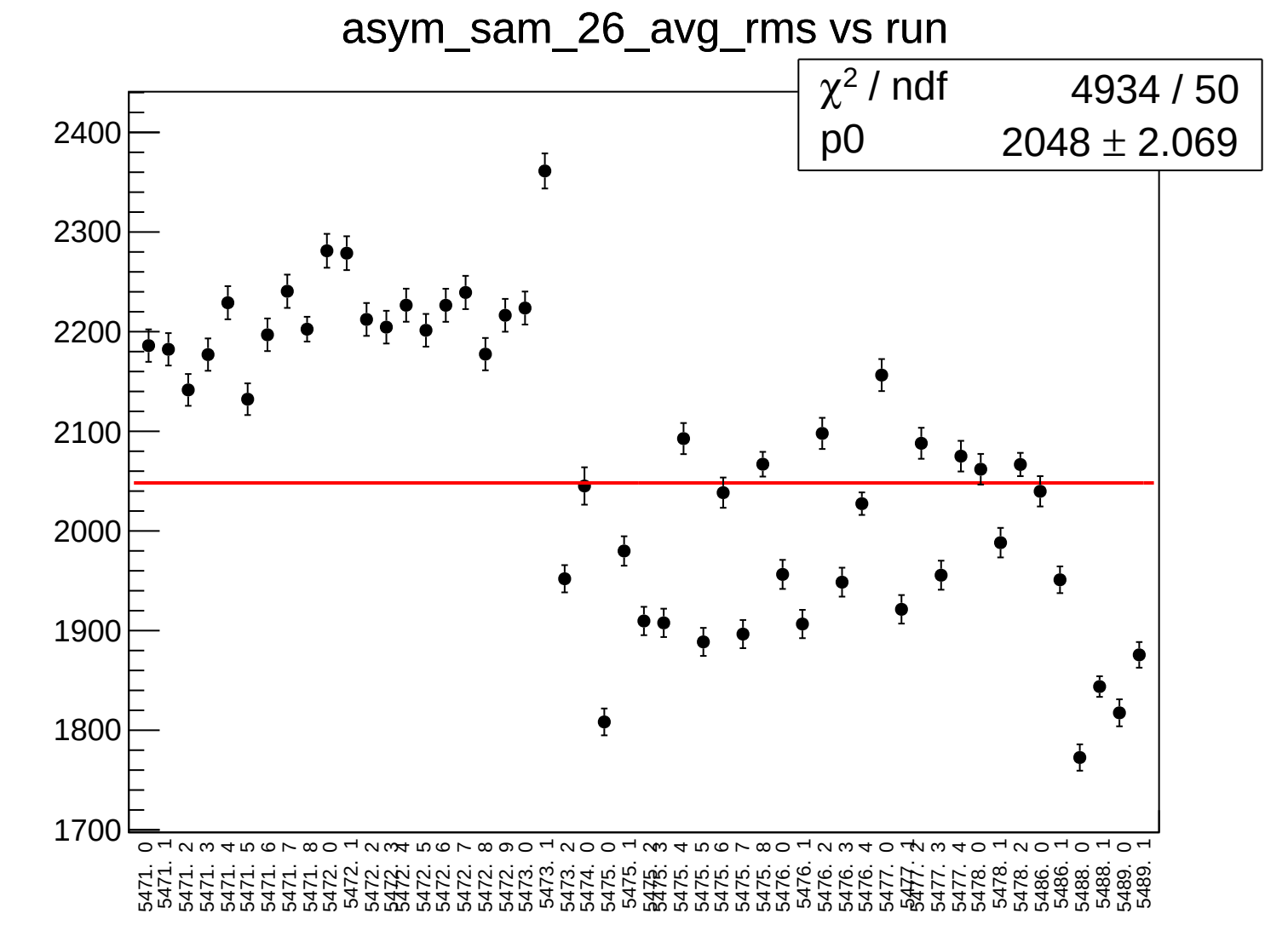

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 65.09 / 50
p0 1504 ± 2952
100
50
0
−50
−100
pull
Entries 51
Mean 4.486
Std Dev 10.63
3
2
1
0
−1
−2
−3

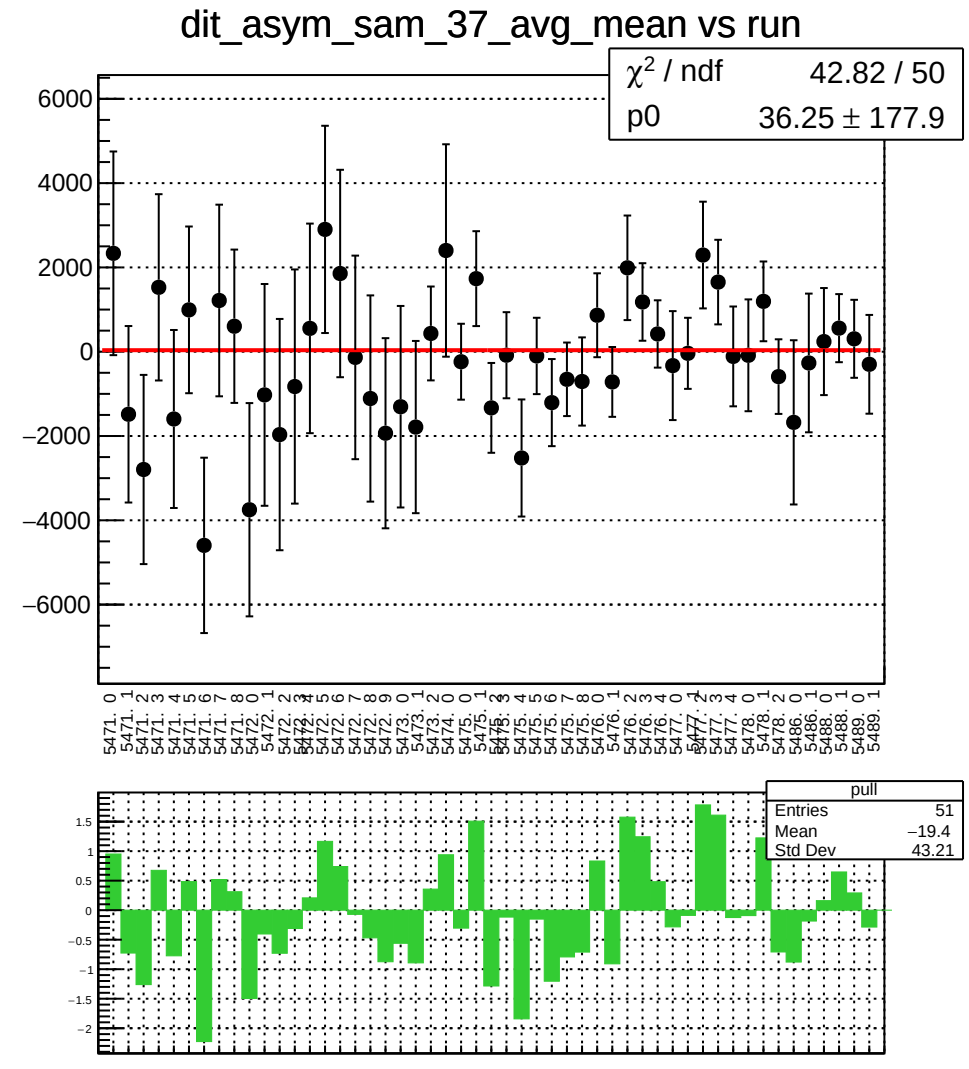

pull1D
Entries 51
Mean −0.0258
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

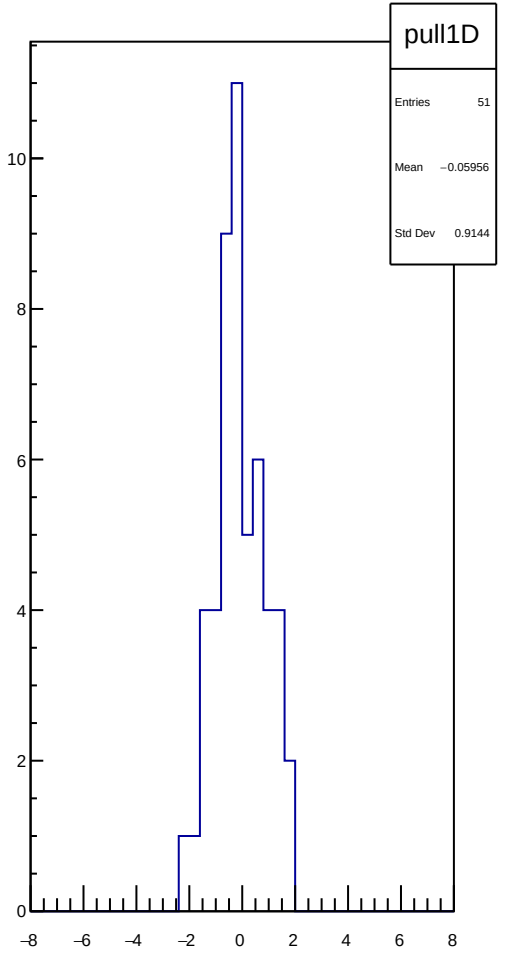

asym_sam_26_avg_correction_rms vs run
χ² / ndf 4511 / 50
p0 2067 ± 2.088
2400
2300
2200
2100
2000
1900
1800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

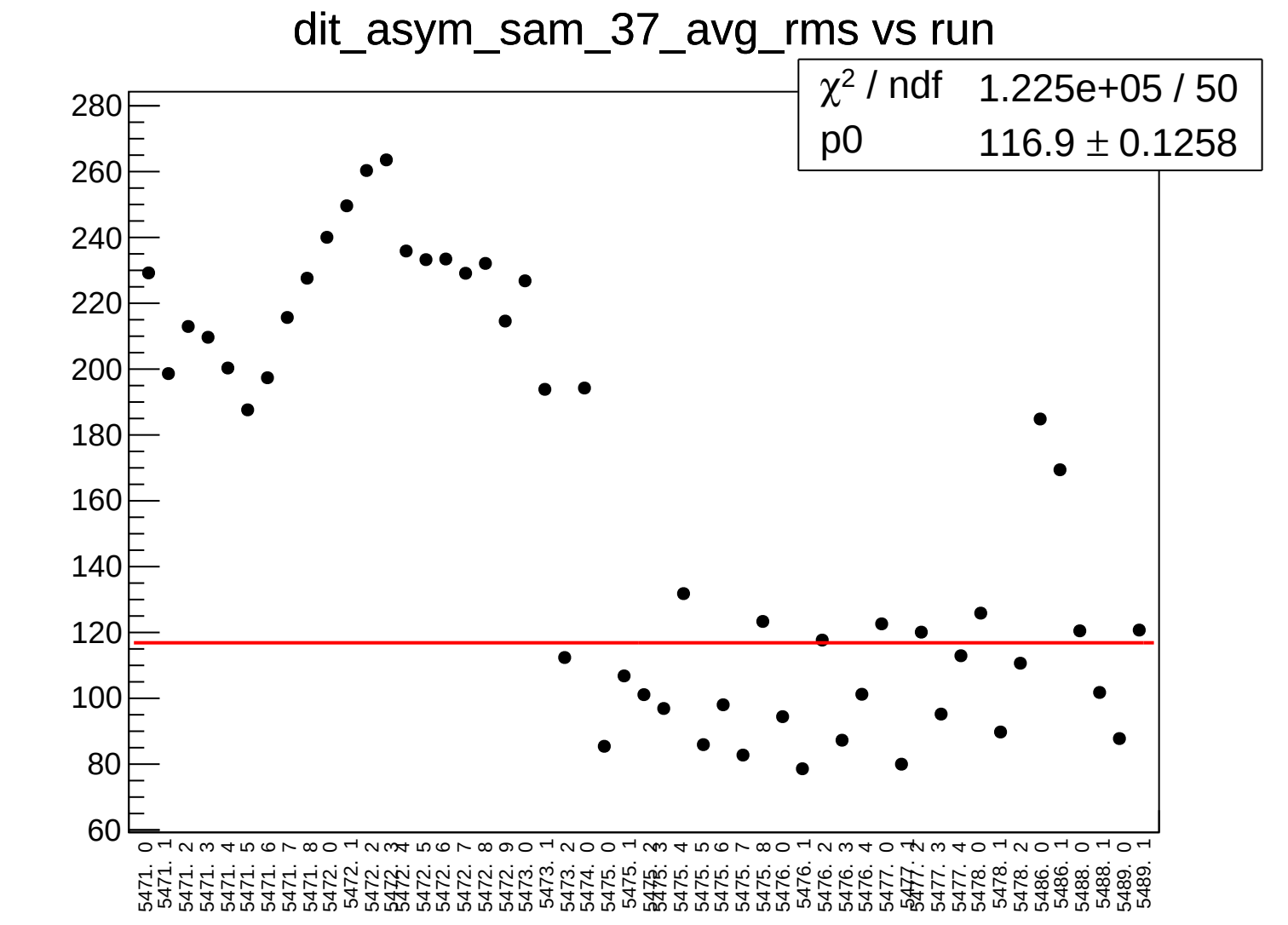

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 65.34 / 50
p0 −1900 ± 2926
pull
Entries 51
Mean 18.95
Std Dev 22.35

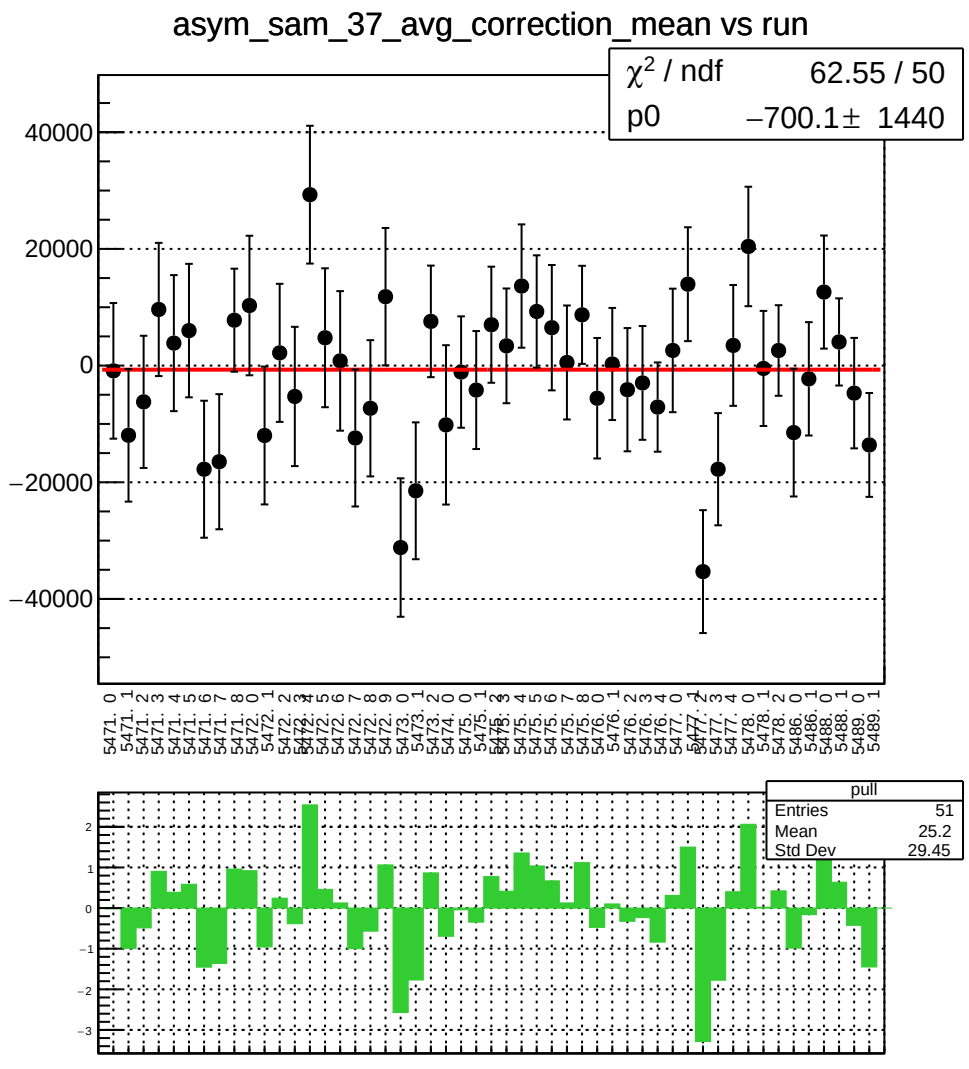

pull1D
Entries 51
Mean 0.02364
Std Dev 1.132

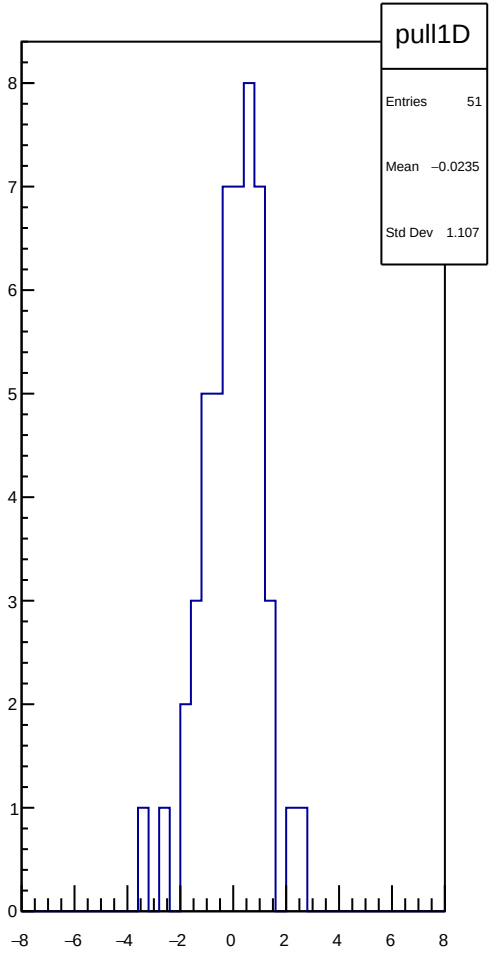

asym_sam_26_avg_rms vs run
χ² / ndf 4934 / 50
p0 2048 ± 2.069
2400
2300
2200
2100
2000
1900
1800
1700
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

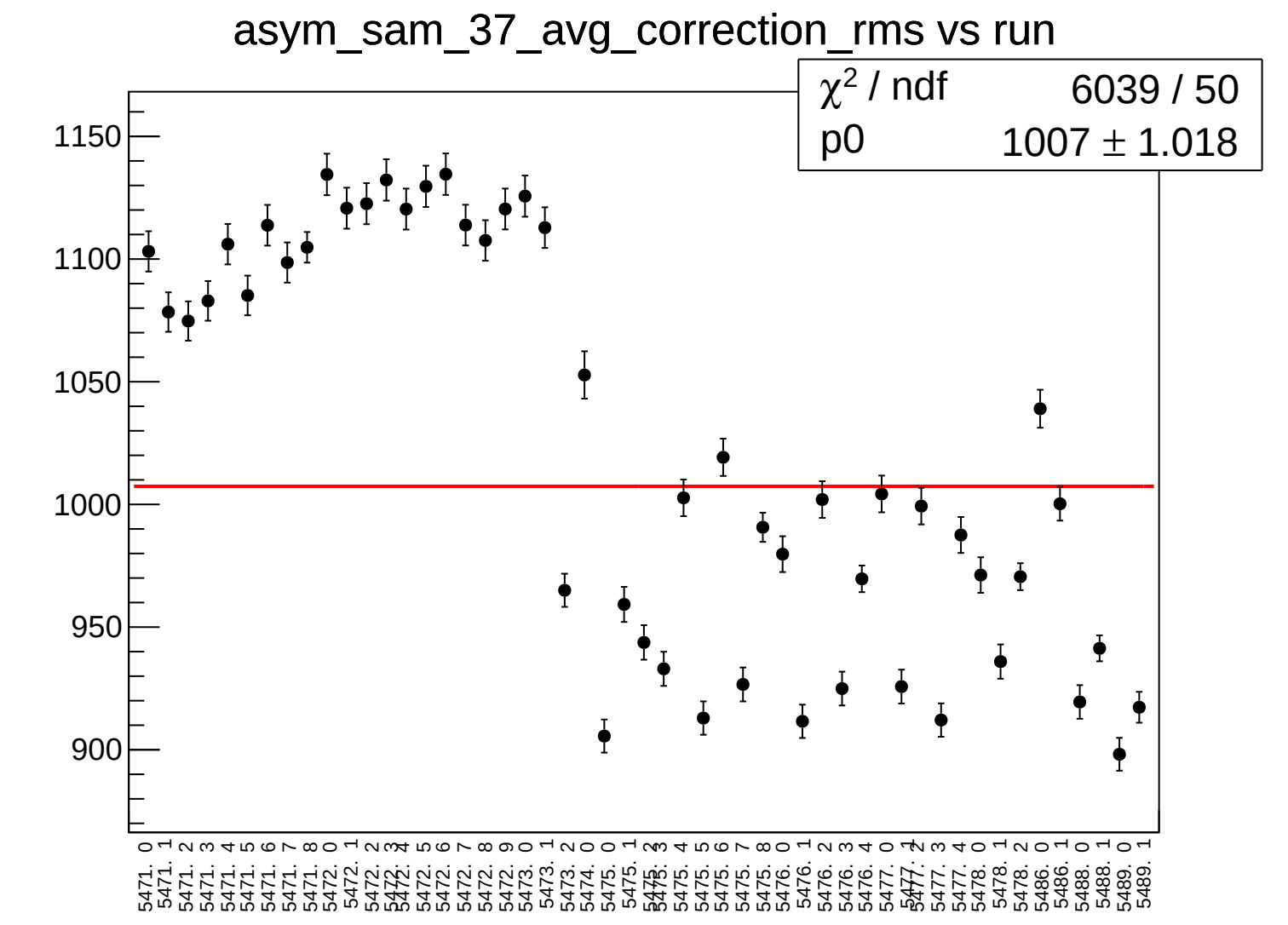

dit_asym_sam_37_avg_mean vs run
χ² / ndf 42.82 / 50
p0 36.25 ± 177.9
pull
Entries 51
Mean −19.4
Std Dev 43.21

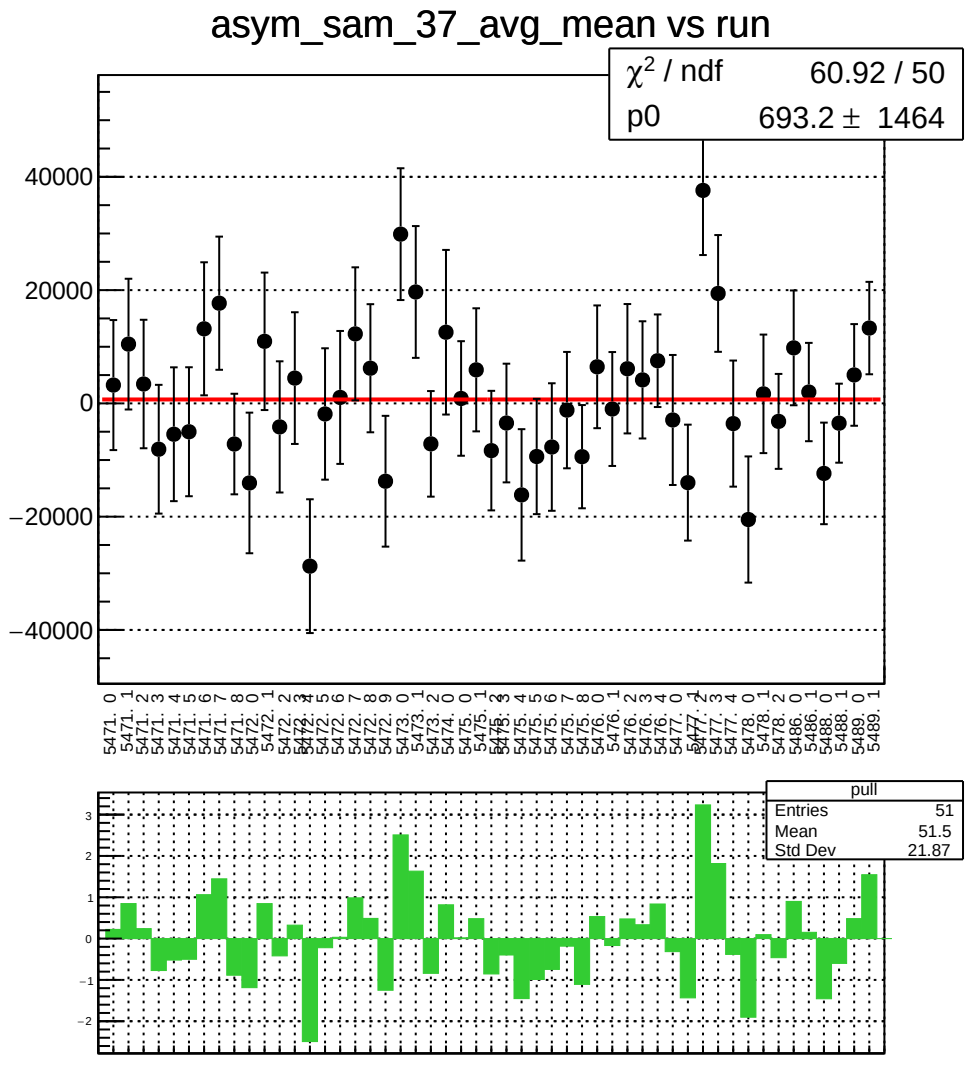

pull1D
Entries 51
Mean −0.05956
Std Dev 0.9144

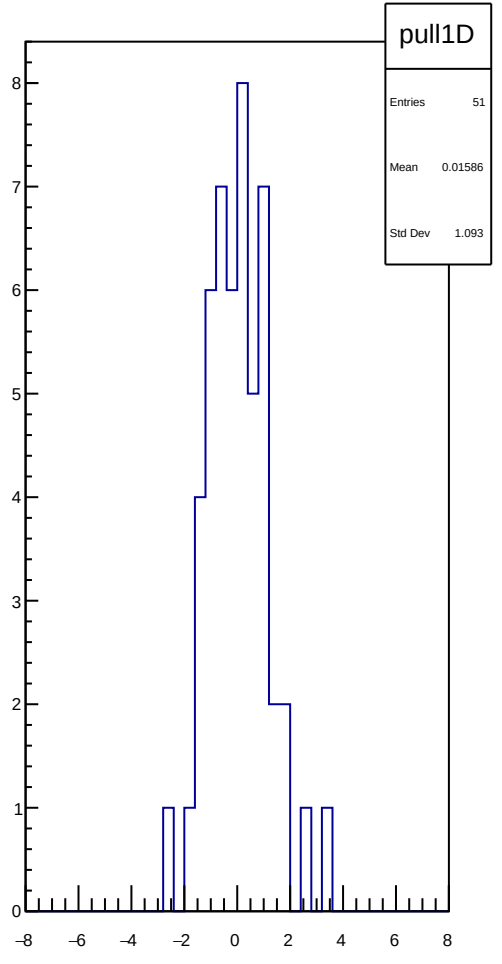

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.225e+05 / 50
p0 116.9 ± 0.1258
280
260
240
220
200
180
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

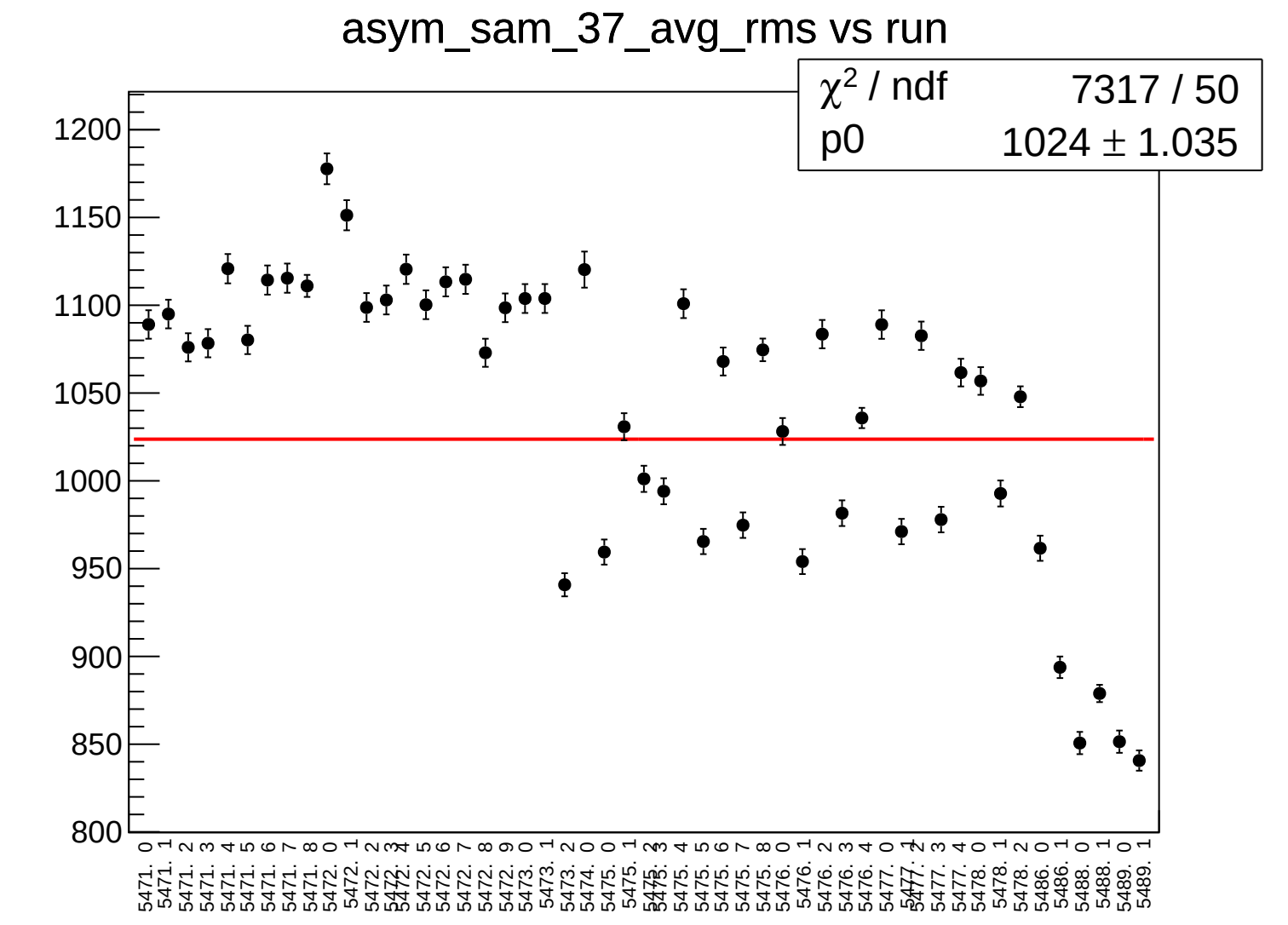

asym_sam_37_avg_correction_mean vs run
χ² / ndf 62.55 / 50
p0 −700.1± 1440
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 25.2
Std Dev 29.45
2
1
0
−1
−2
−3

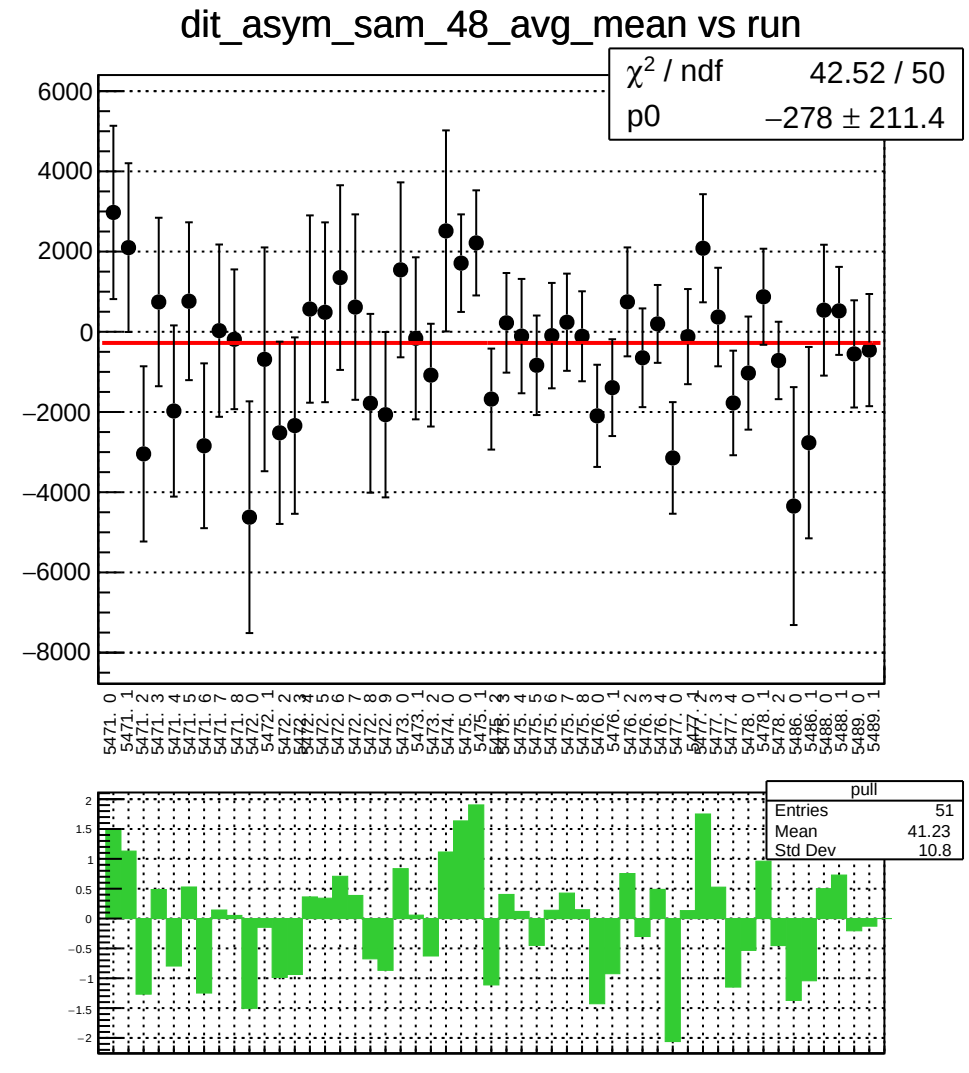

pull1D
Entries 51
Mean −0.0235
Std Dev 1.107
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

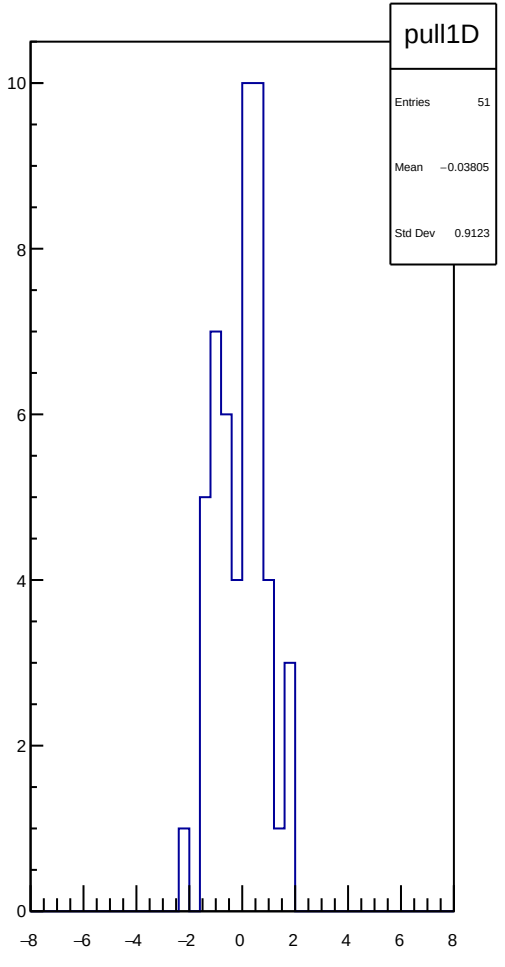

asym_sam_37_avg_correction_rms vs run
χ² / ndf 6039 / 50
p0 1007 ± 1.018
1150
1100
1050
1000
950
900
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

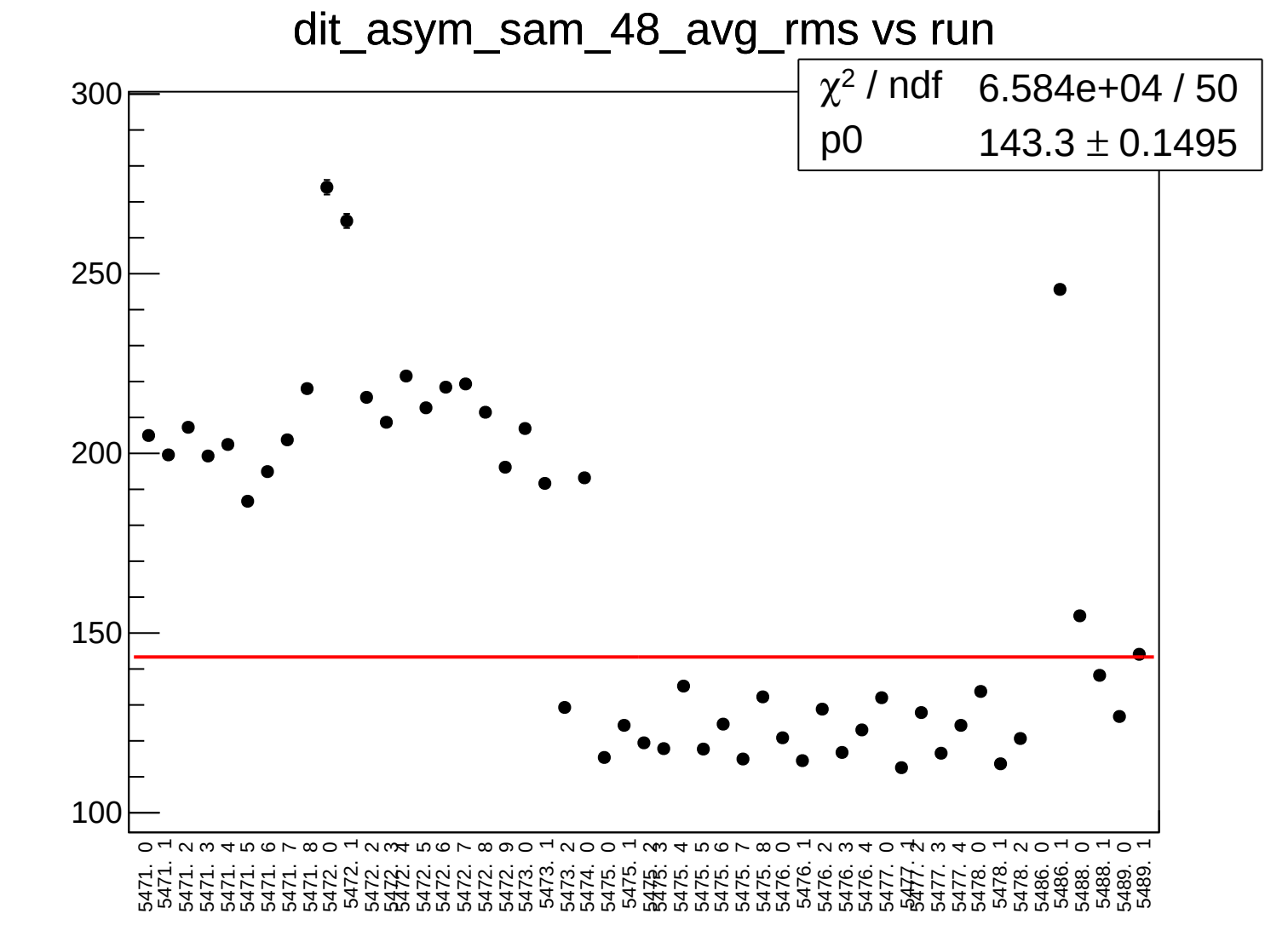

asym_sam_37_avg_mean vs run
χ^2 / ndf 60.92 / 50
p0 693.2 ± 1464
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 51.5
Std Dev 21.87
3
2
1
0
−1
−2

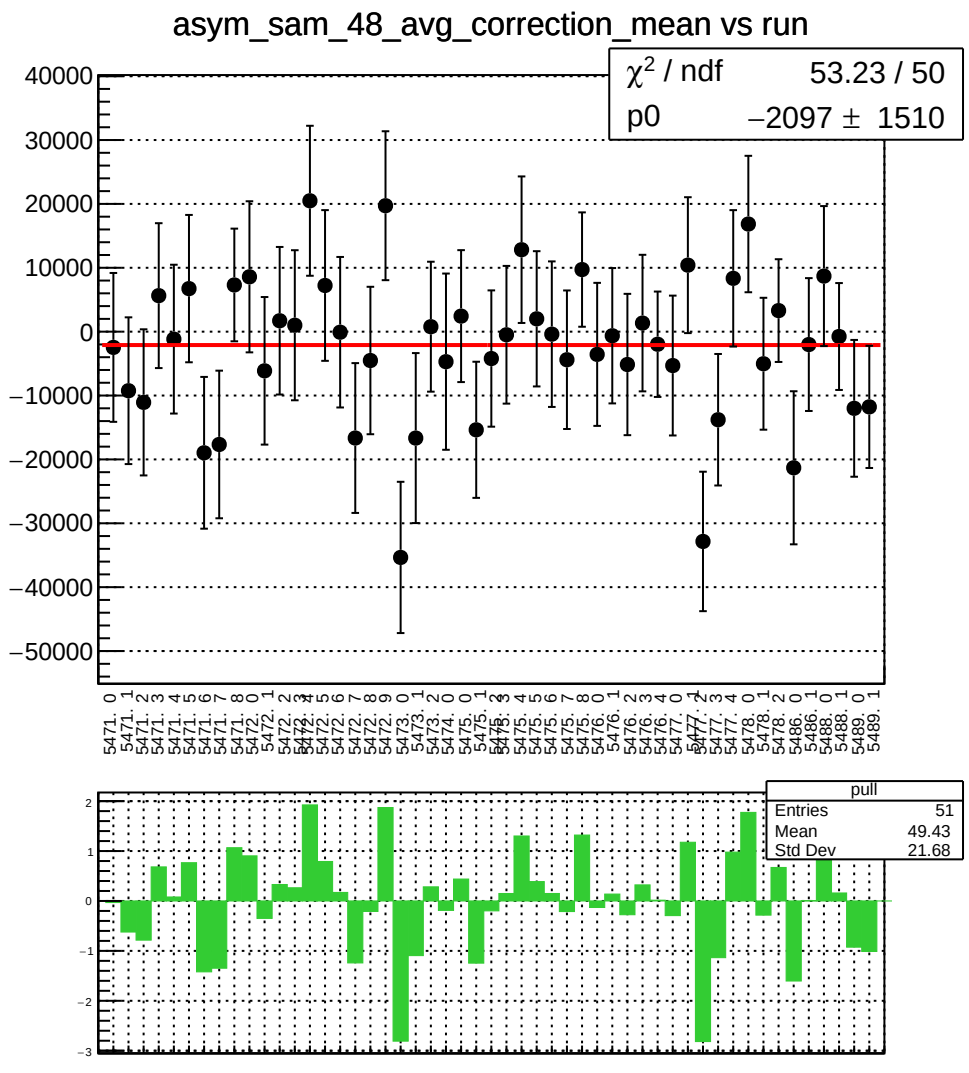

pull1D
Entries 51
Mean 0.01586
Std Dev 1.093
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

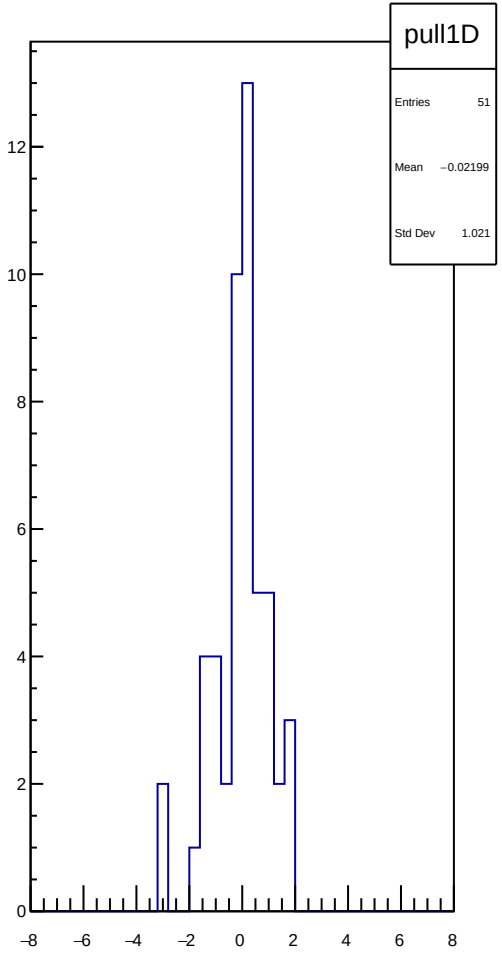

asym_sam_37_avg_rms vs run
χ² / ndf 7317 / 50
p0 1024 ± 1.035
1200
1150
1100
1050
1000
950
900
850
800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

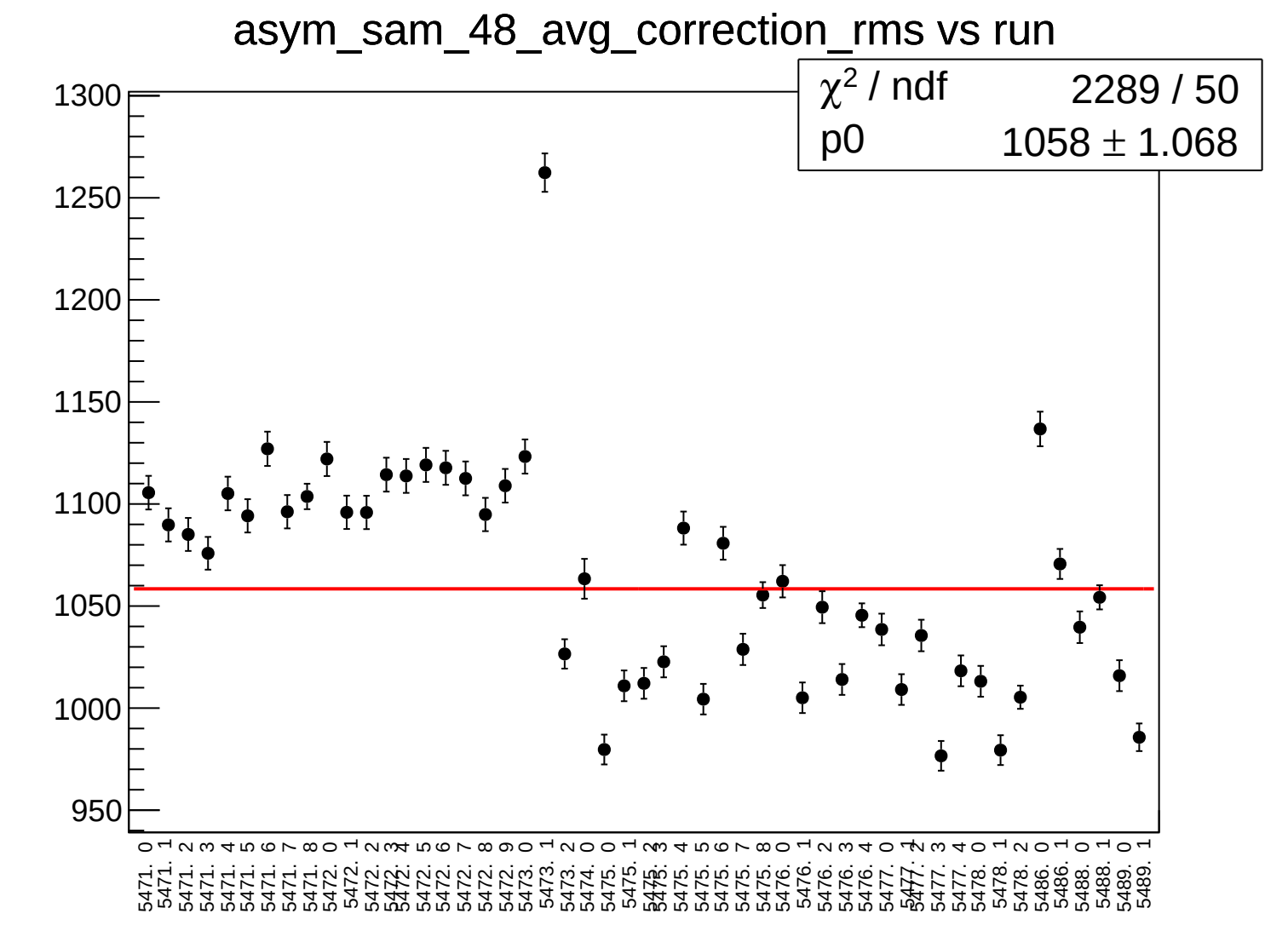

dit_asym_sam_48_avg_mean vs run
χ² / ndf 42.52 / 50
p0 −278 ± 211.4
pull
Entries 51
Mean 41.23
Std Dev 10.8

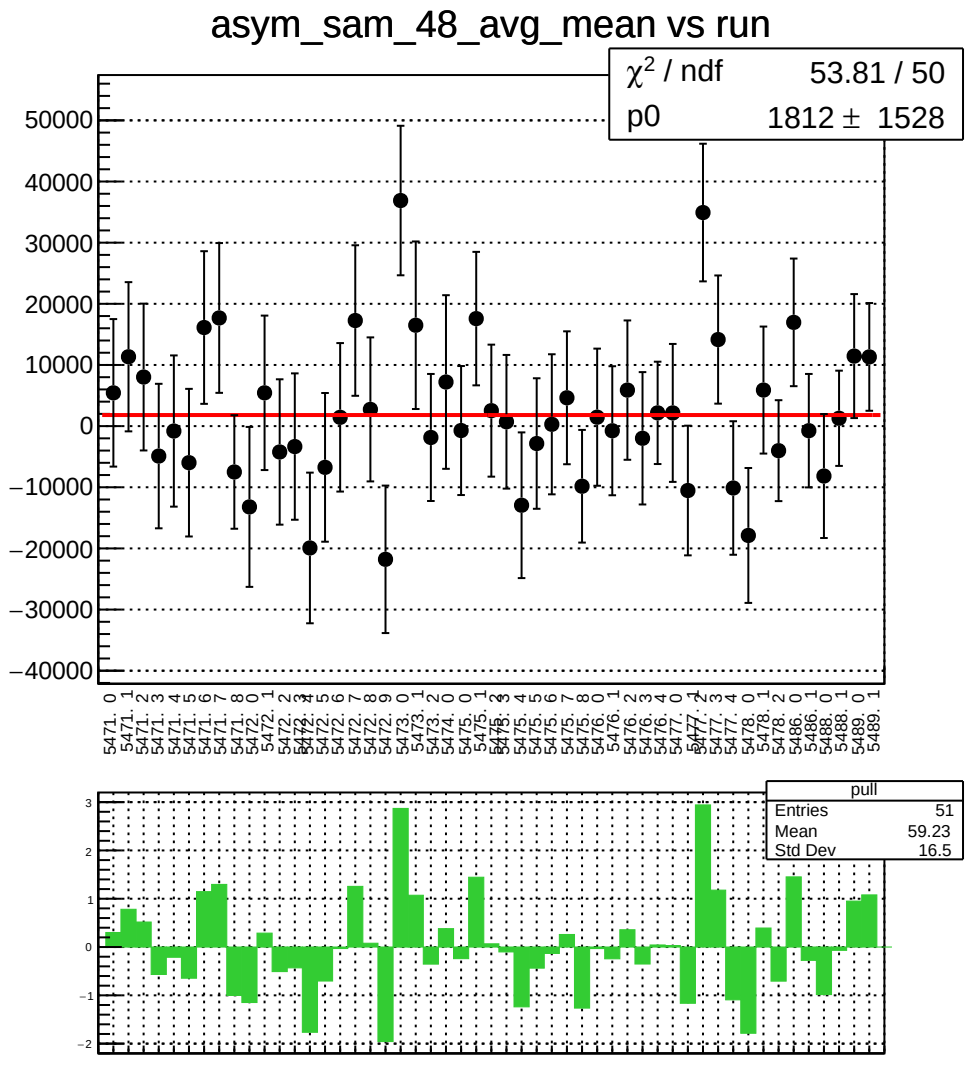

pull1D
Entries 51
Mean −0.03805
Std Dev 0.9123

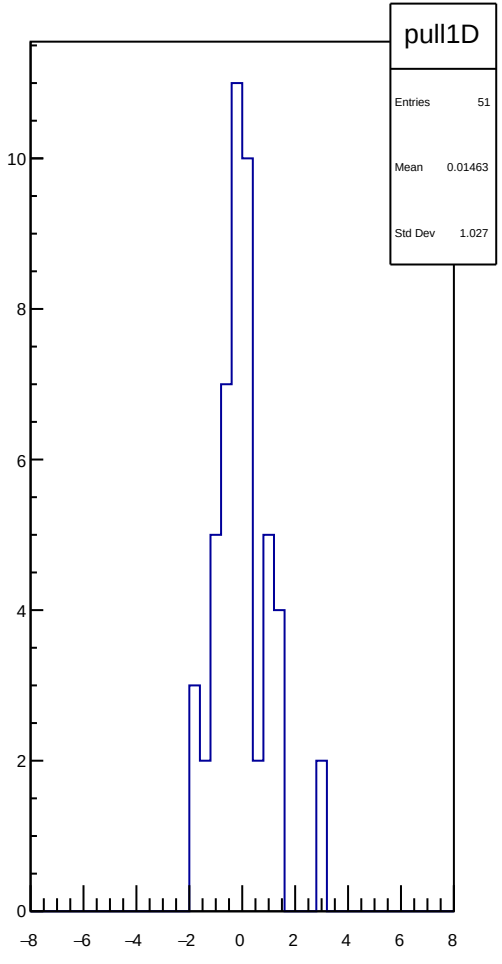

dit_asym_sam_48_avg_rms vs run
χ² / ndf 6.584e+04 / 50
p0 143.3 ± 0.1495
300
250
200
150
100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

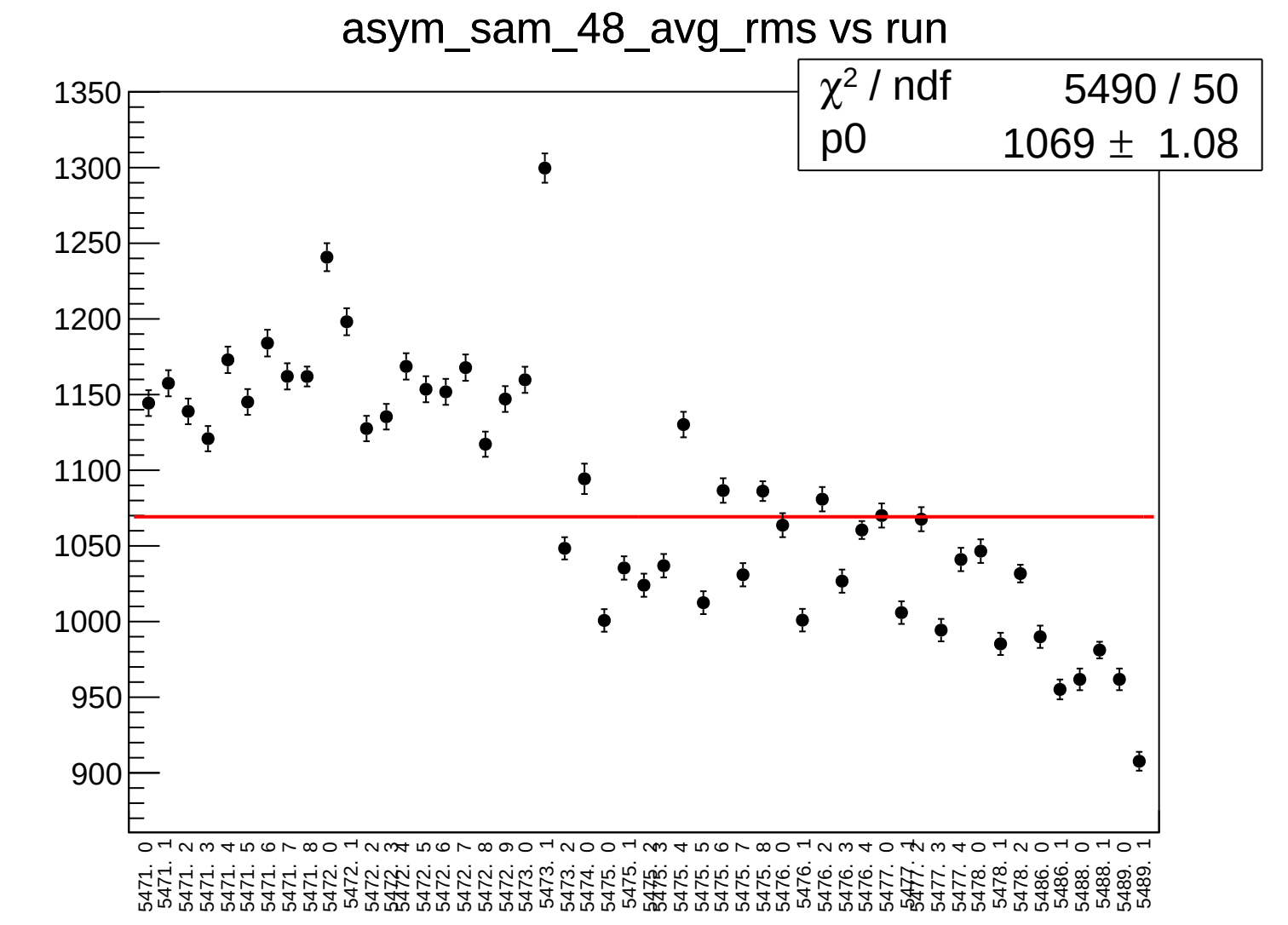

asym_sam_48_avg_correction_mean vs run
χ² / ndf 53.23 / 50
p0 −2097 ± 1510
pull
Entries 51
Mean 49.43
Std Dev 21.68

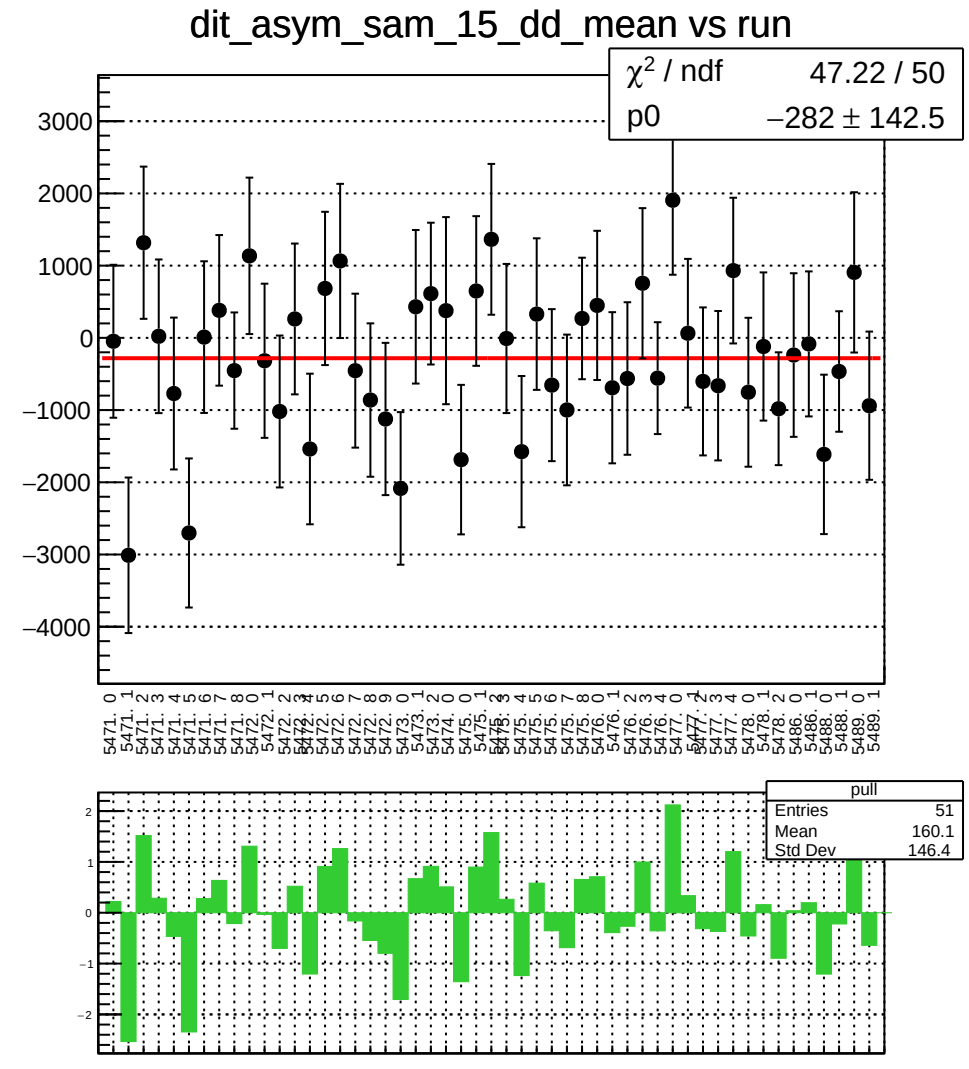

pull1D
Entries 51
Mean −0.02199
Std Dev 1.021

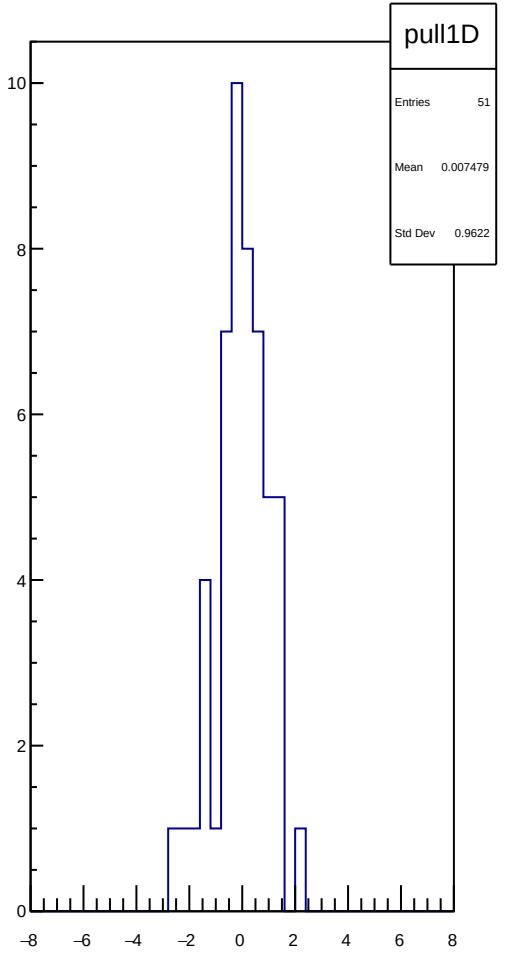

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2289 / 50
p0 1058 ± 1.068
1300
1250
1200
1150
1100
1050
1000
950
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

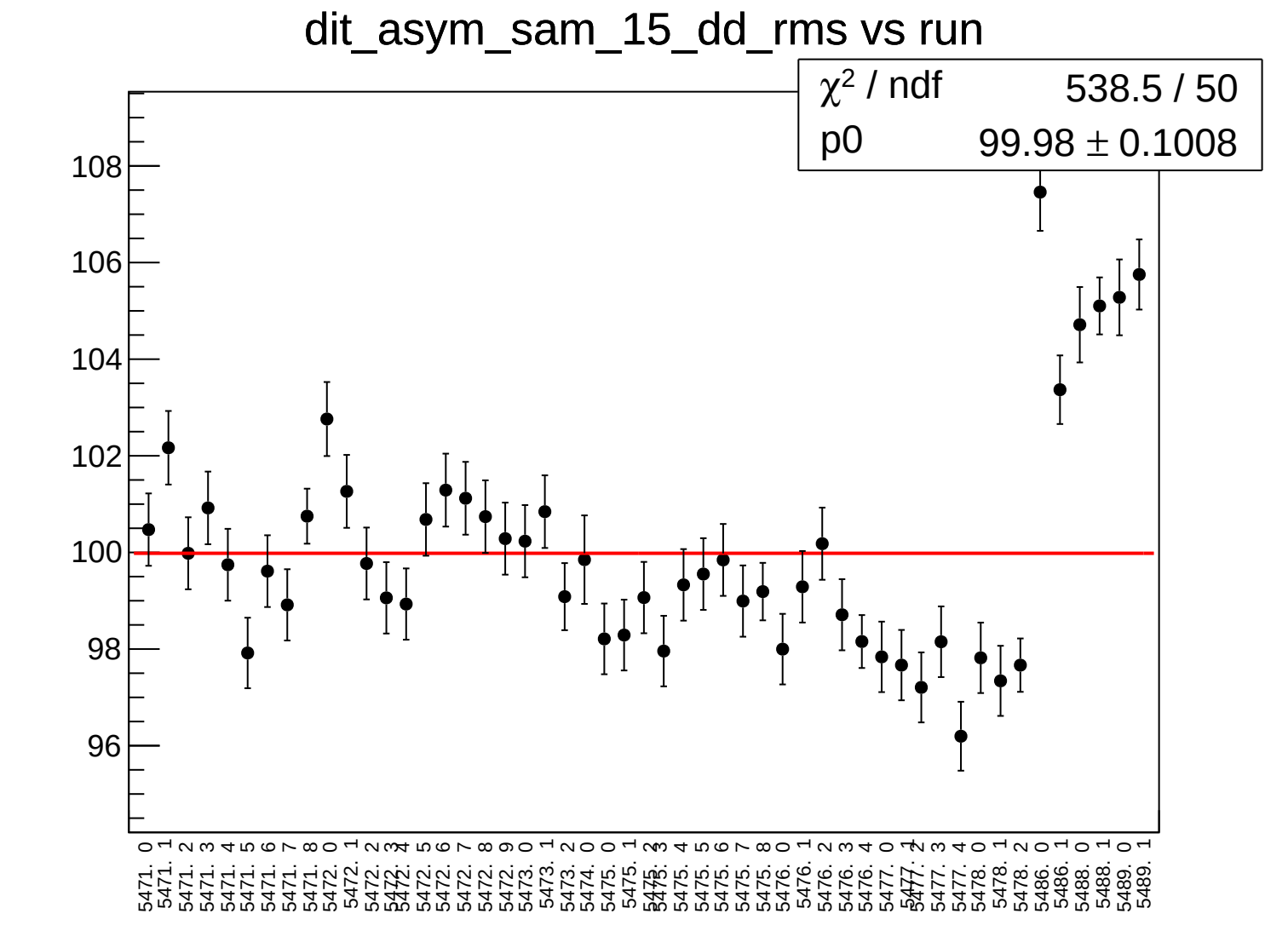

asym_sam_48_avg_mean vs run
χ^2 / ndf 53.81 / 50
p0 1812 ± 1528
pull
Entries 51
Mean 59.23
Std Dev 16.5

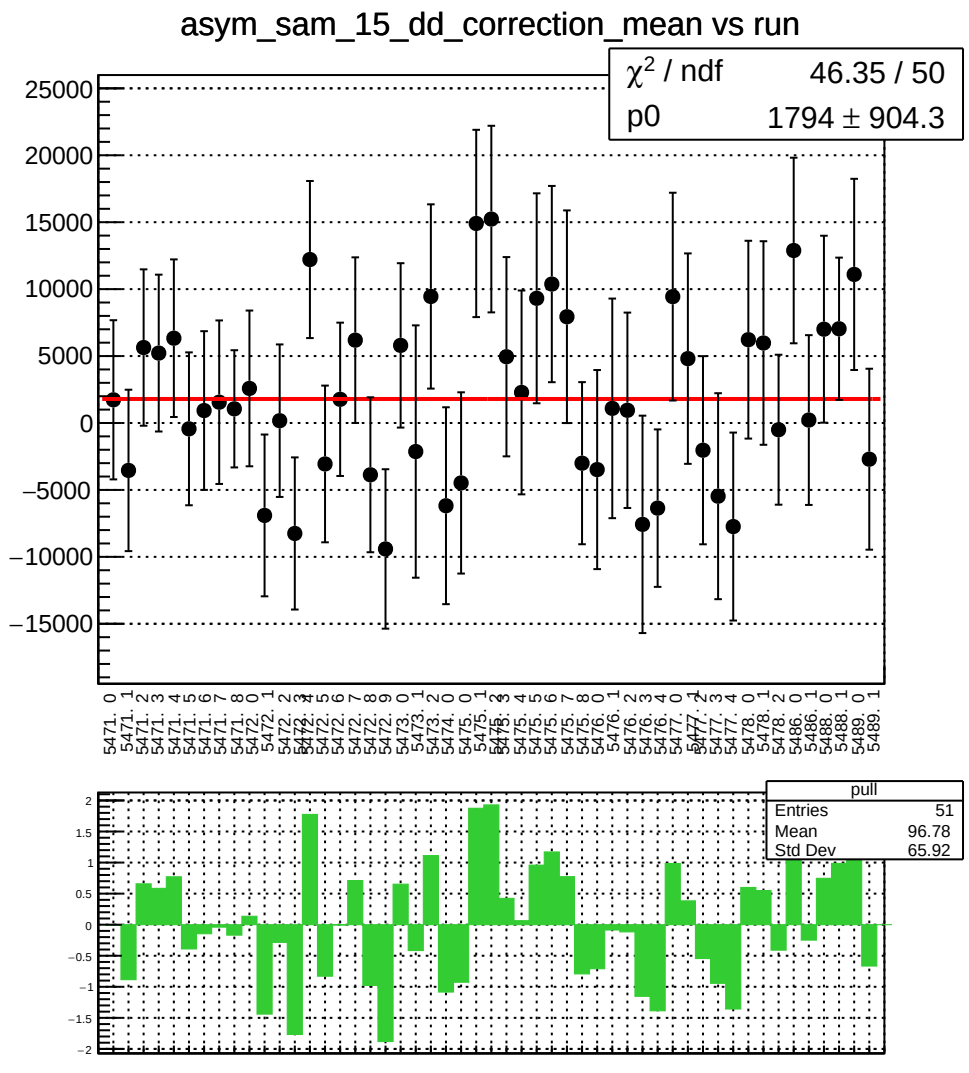

pull1D
Entries 51
Mean 0.01463
Std Dev 1.027

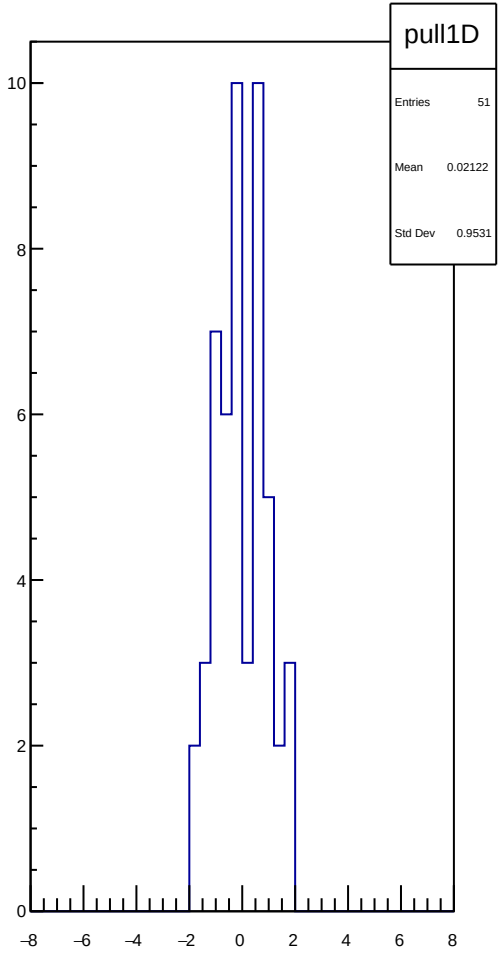

asym_sam_48_avg_rms vs run
χ² / ndf 5490 / 50
p0 1069 ± 1.08
1350
1300
1250
1200
1150
1100
1050
1000
950
900
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

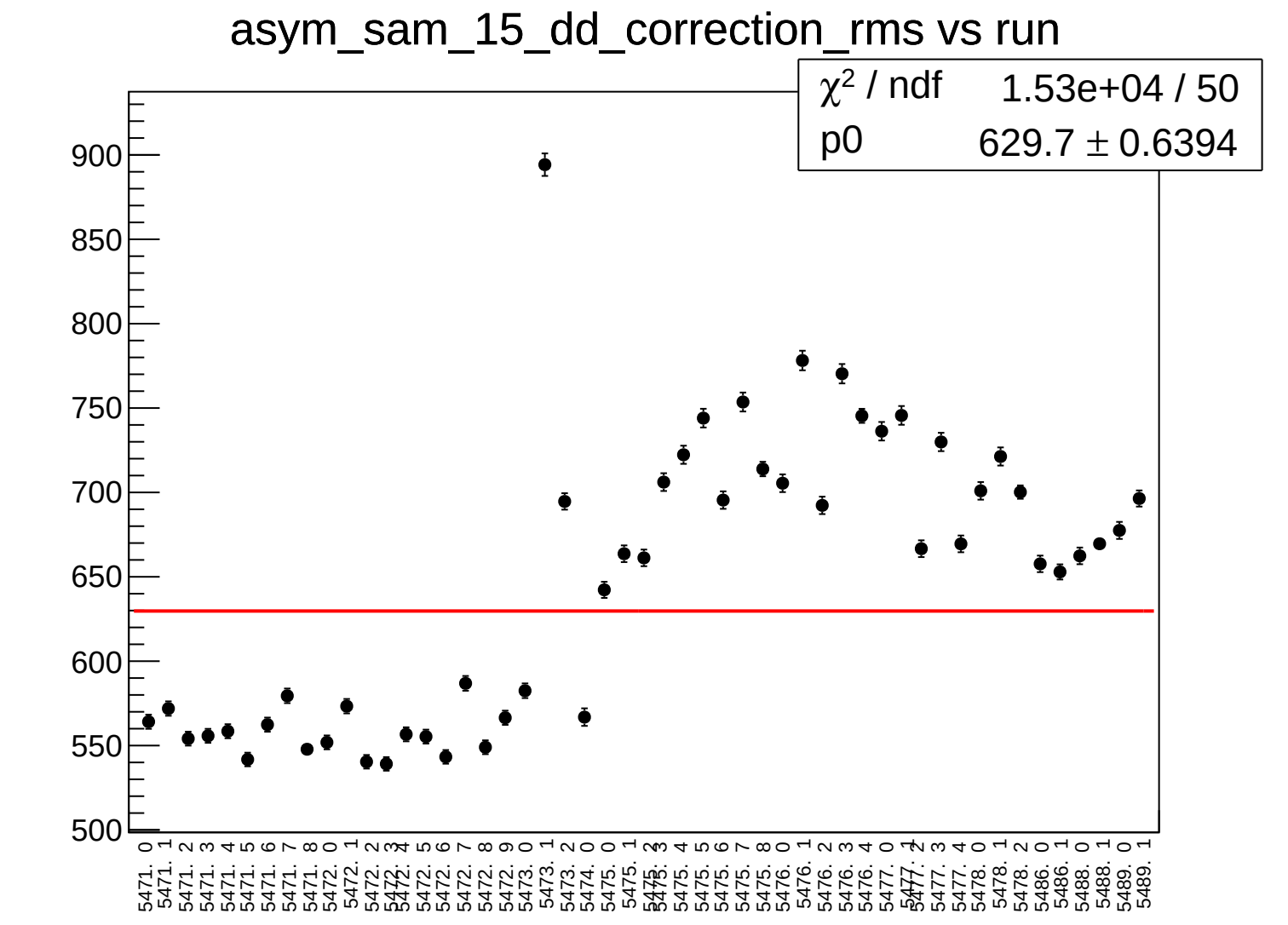

dit_asym_sam_15_dd_mean vs run
χ² / ndf 47.22 / 50
p0 −282 ± 142.5
pull
Entries 51
Mean 160.1
Std Dev 146.4

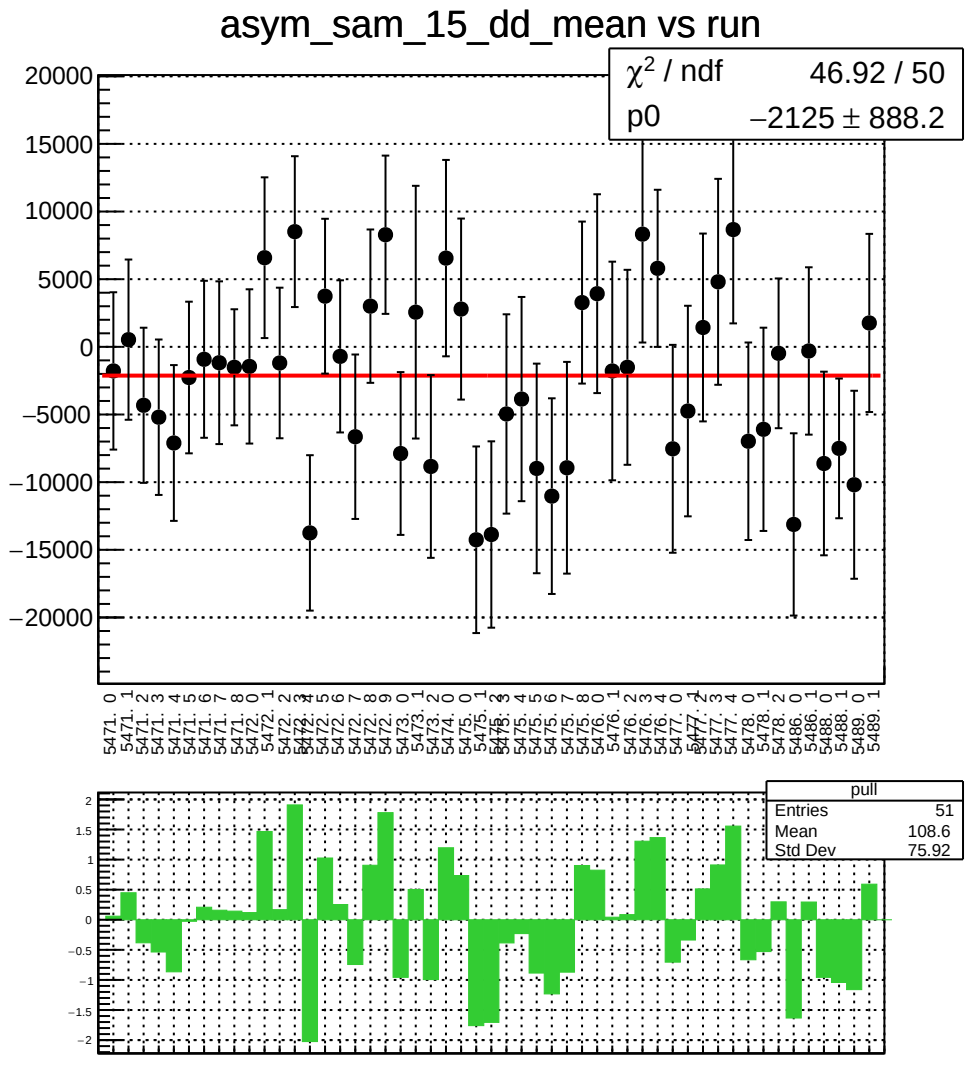

pull1D
Entries 51
Mean 0.007479
Std Dev 0.9622

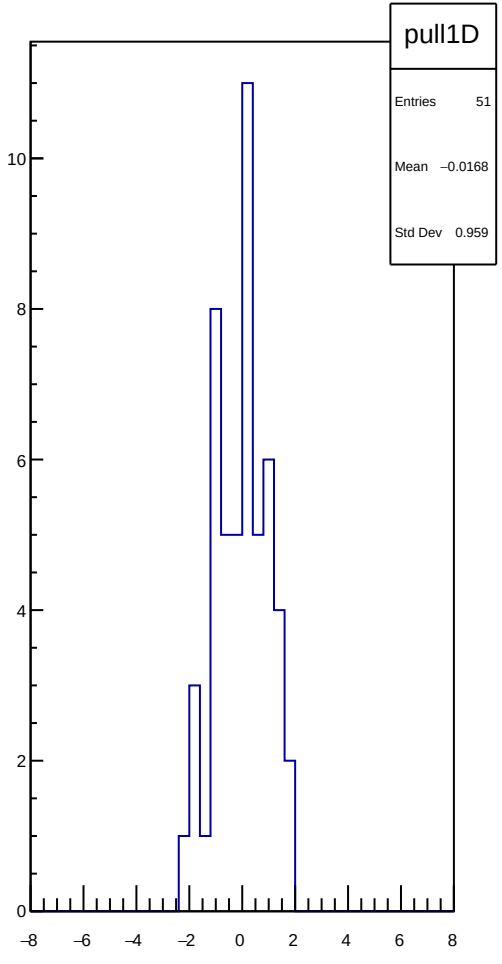

dit_asym_sam_15_dd_rms vs run
χ² / ndf 538.5 / 50
p0 99.98 ± 0.1008
108
106
104
102
100
98
96
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

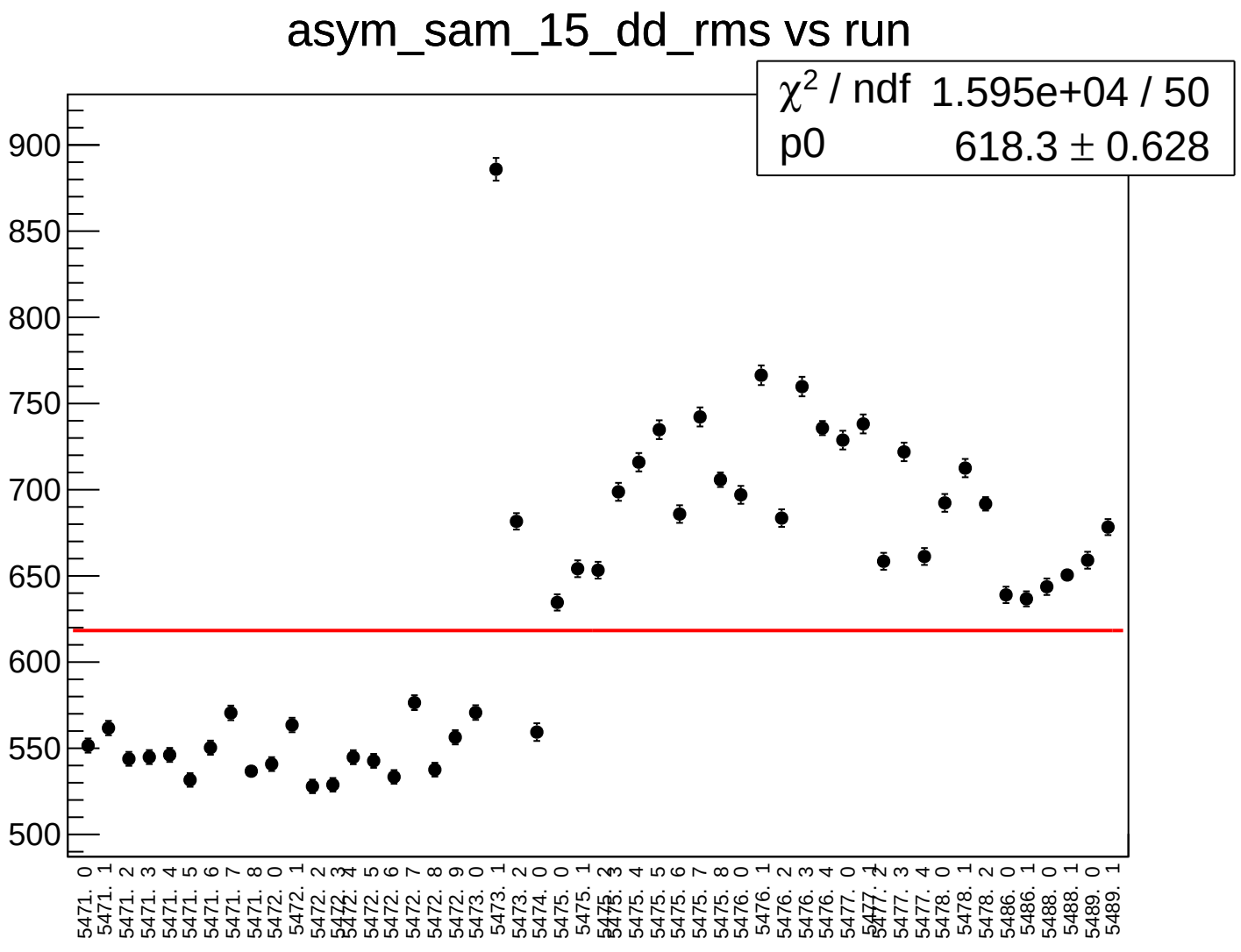

asym_sam_15_dd_correction_mean vs run
χ² / ndf 46.35 / 50
p0 1794 ± 904.3
pull
Entries 51
Mean 96.78
Std Dev 65.92

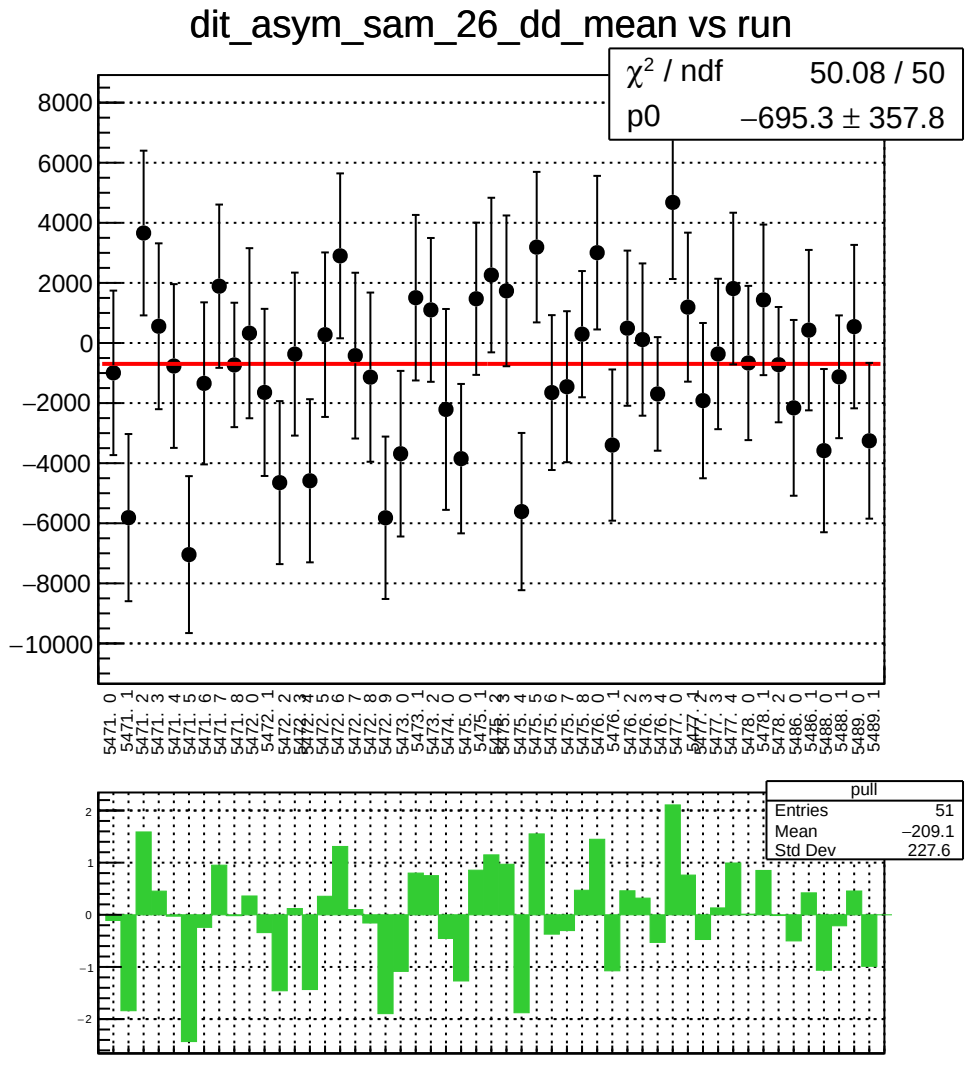

pull1D
Entries 51
Mean 0.02122
Std Dev 0.9531

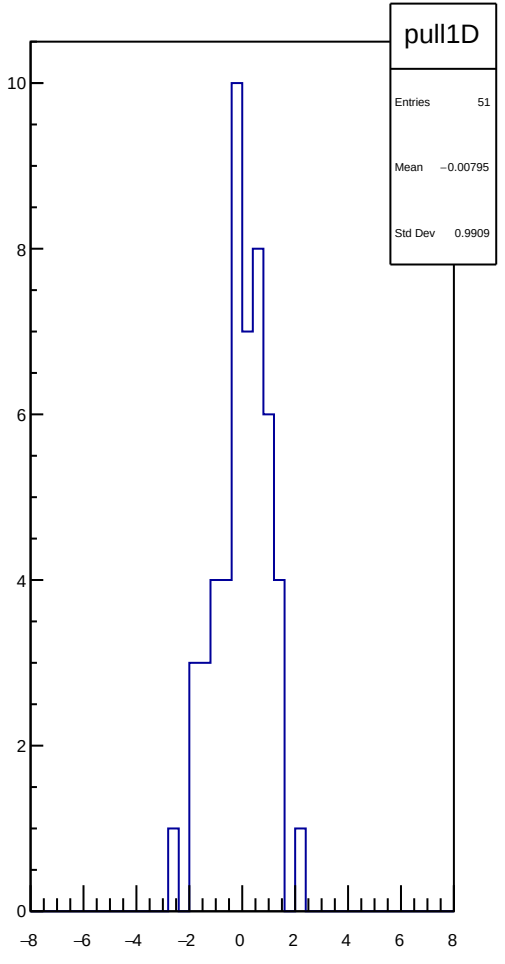

asym_sam_15_dd_correction_rms vs run
χ² / ndf 1.53e+04 / 50
p0 629.7 ± 0.6394
900
850
800
750
700
650
600
550
500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

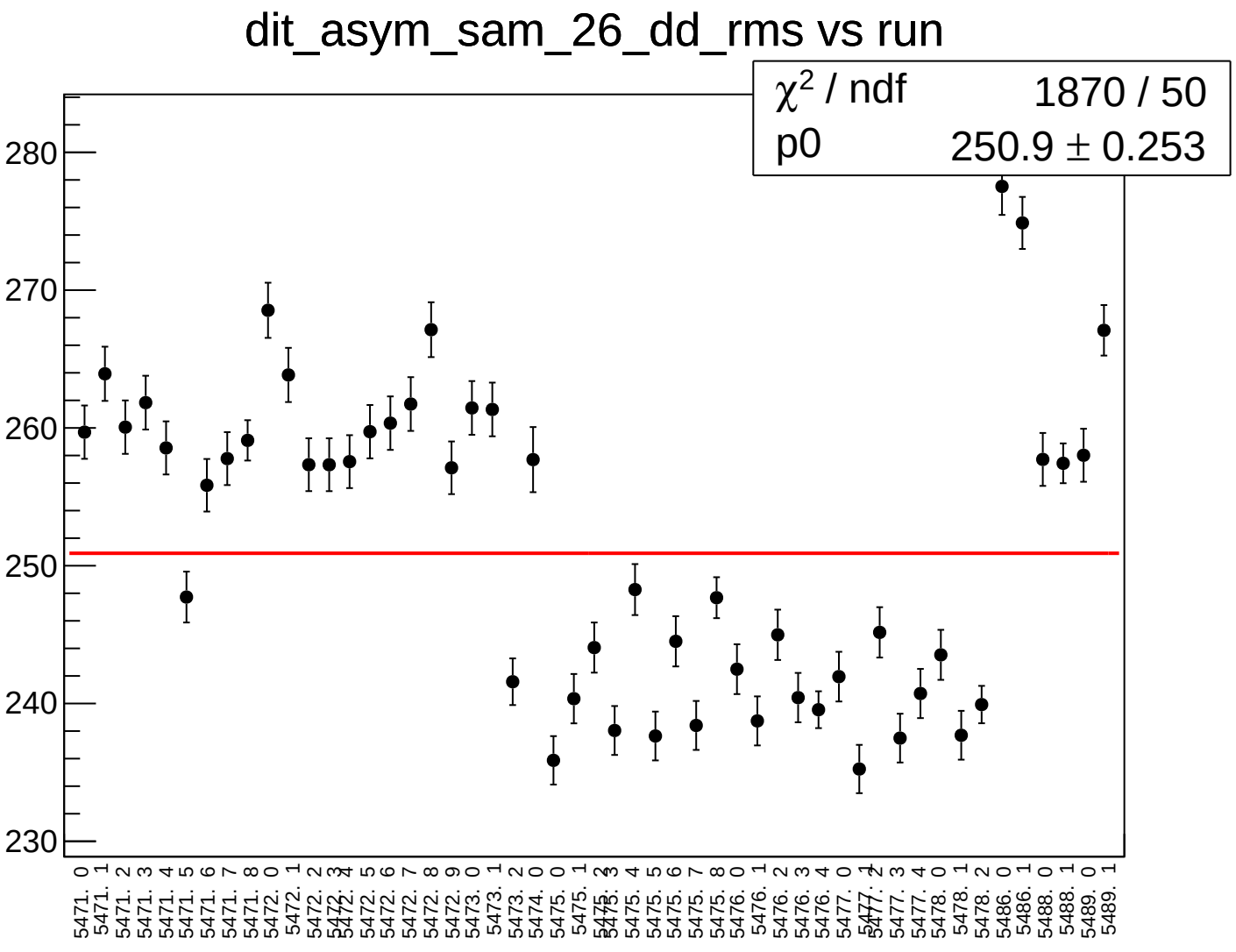

asym_sam_15_dd_mean vs run
χ² / ndf 46.92 / 50
p0 −2125 ± 888.2
pull
Entries 51
Mean 108.6
Std Dev 75.92

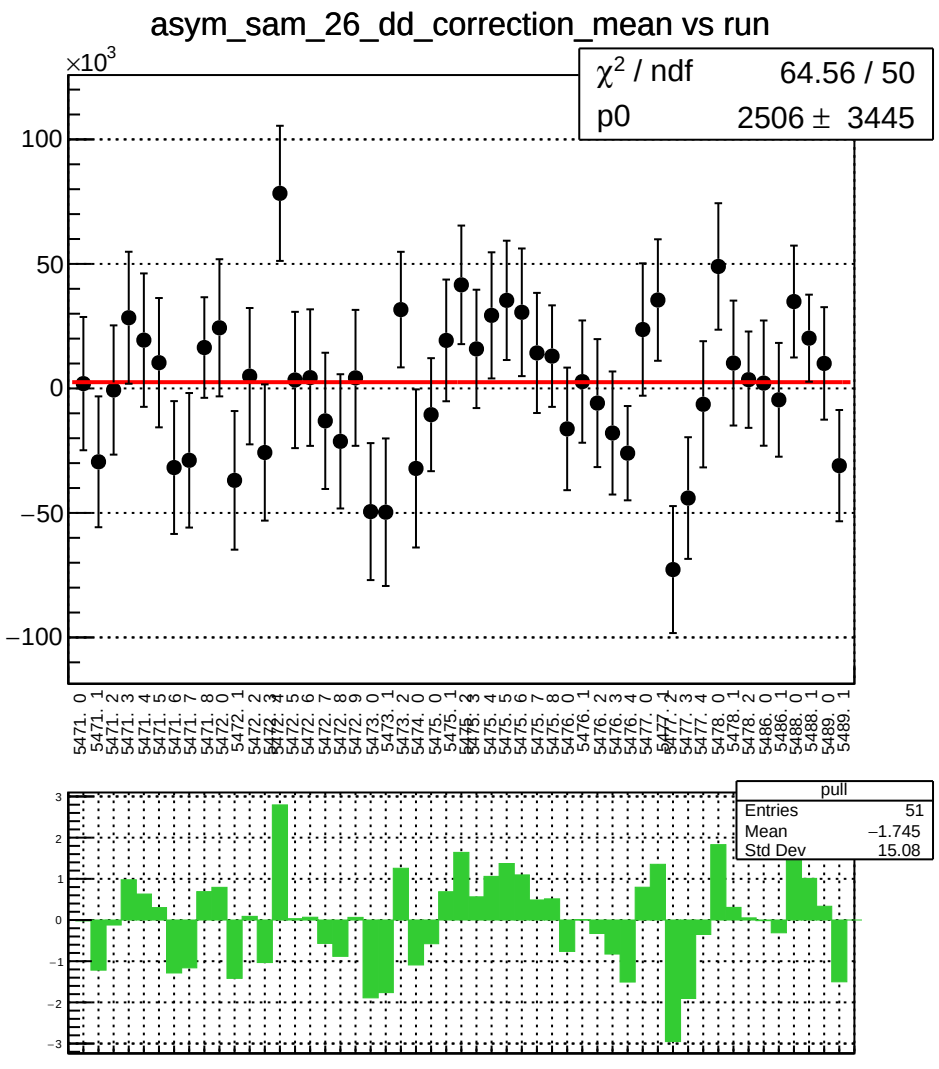

pull1D
Entries 51
Mean −0.0168
Std Dev 0.959

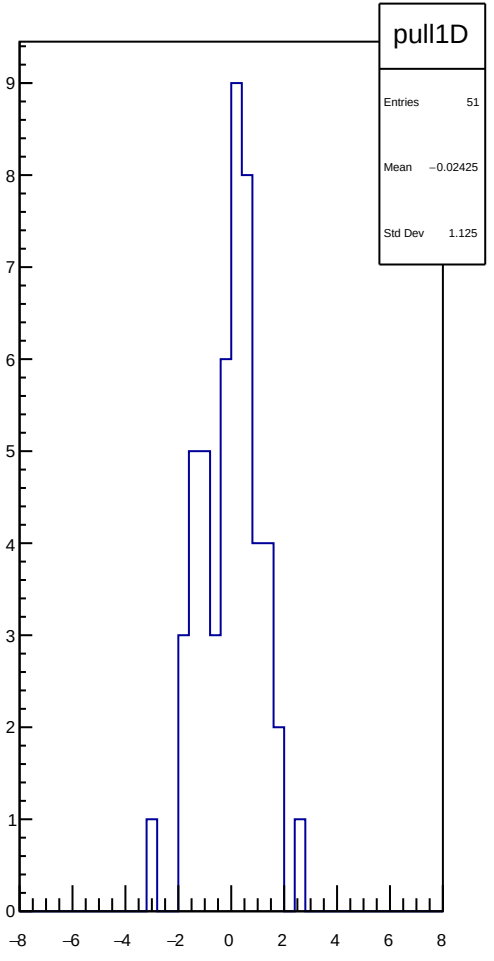

asym_sam_15_dd_rms vs run
χ² / ndf 1.595e+04 / 50
p0 618.3 ± 0.628
900
850
800
750
700
650
600
550
500
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

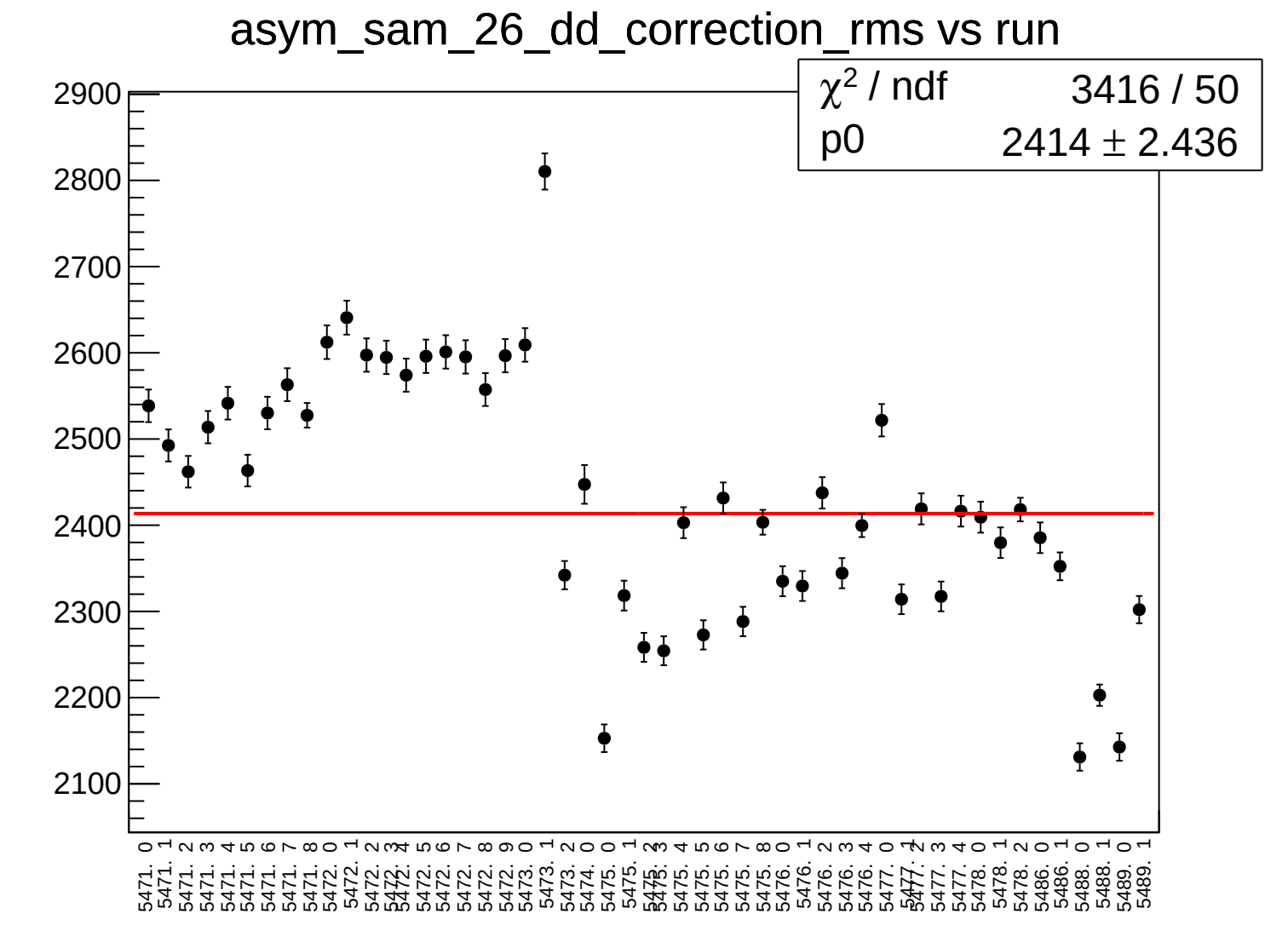

dit_asym_sam_26_dd_mean vs run
χ² / ndf 50.08 / 50
p0 −695.3 ± 357.8
pull
Entries 51
Mean −209.1
Std Dev 227.6

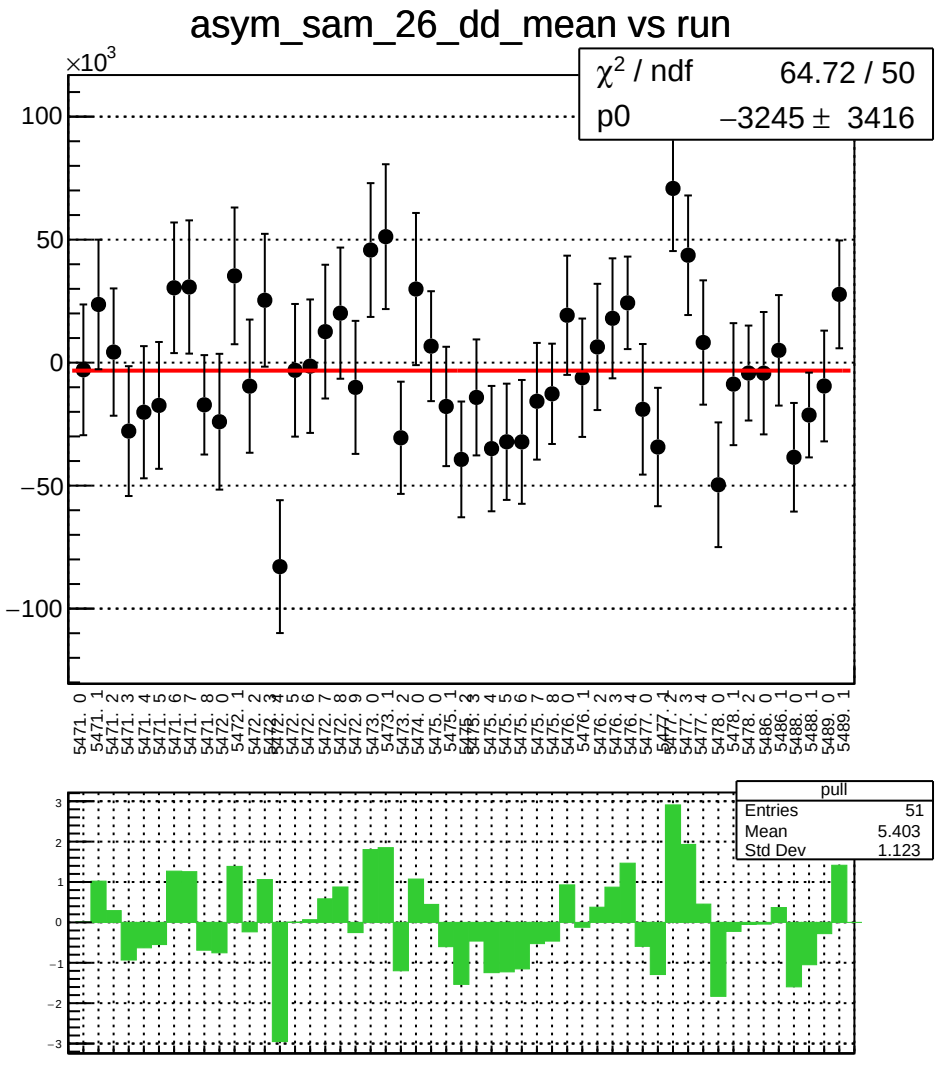

pull1D
Entries 51
Mean −0.00795
Std Dev 0.9909

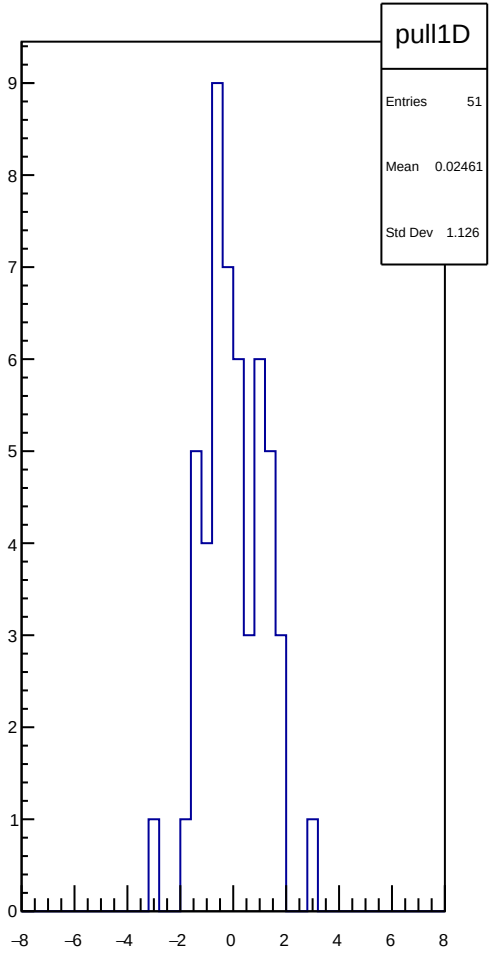

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1870 / 50
p0 250.9 ± 0.253
280
270
260
250
240
230
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

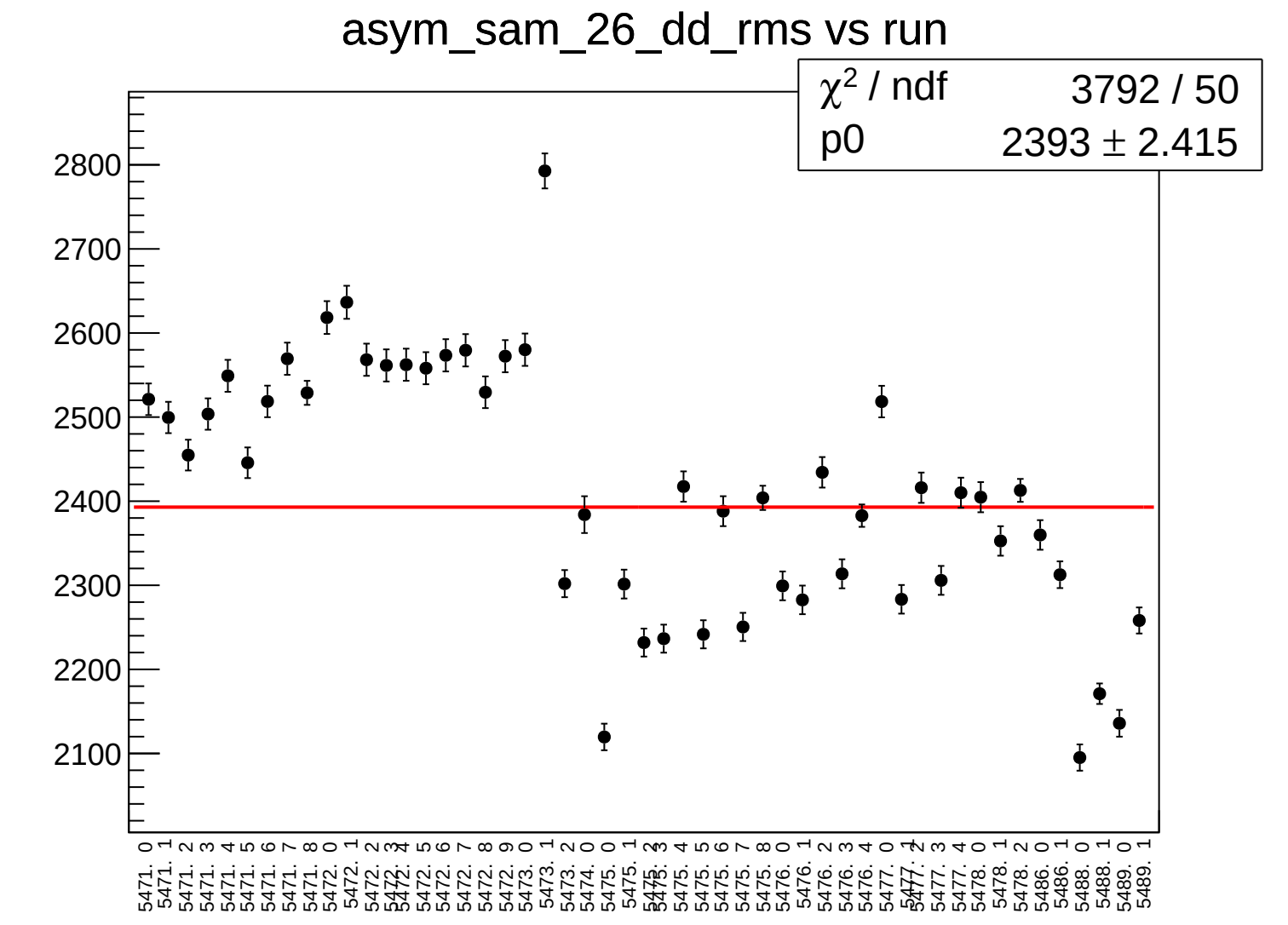

asym_sam_26_dd_correction_mean vs run
×10^3
χ^2 / ndf 64.56 / 50
p0 2506 ± 3445
100
50
0
−50
−100
pull
Entries 51
Mean −1.745
Std Dev 15.08
3
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.02425
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_correction_rms vs run
χ² / ndf 3416 / 50
p0 2414 ± 2.436
2900
2800
2700
2600
2500
2400
2300
2200
2100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 64.72 / 50
p0 −3245 ± 3416
100
50
0
−50
−100
pull
Entries 51
Mean 5.403
Std Dev 1.123


pull1D
Entries 51
Mean 0.02461
Std Dev 1.126


asym_sam_26_dd_rms vs run
χ² / ndf 3792 / 50
p0 2393 ± 2.415
2800
2700
2600
2500
2400
2300
2200
2100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
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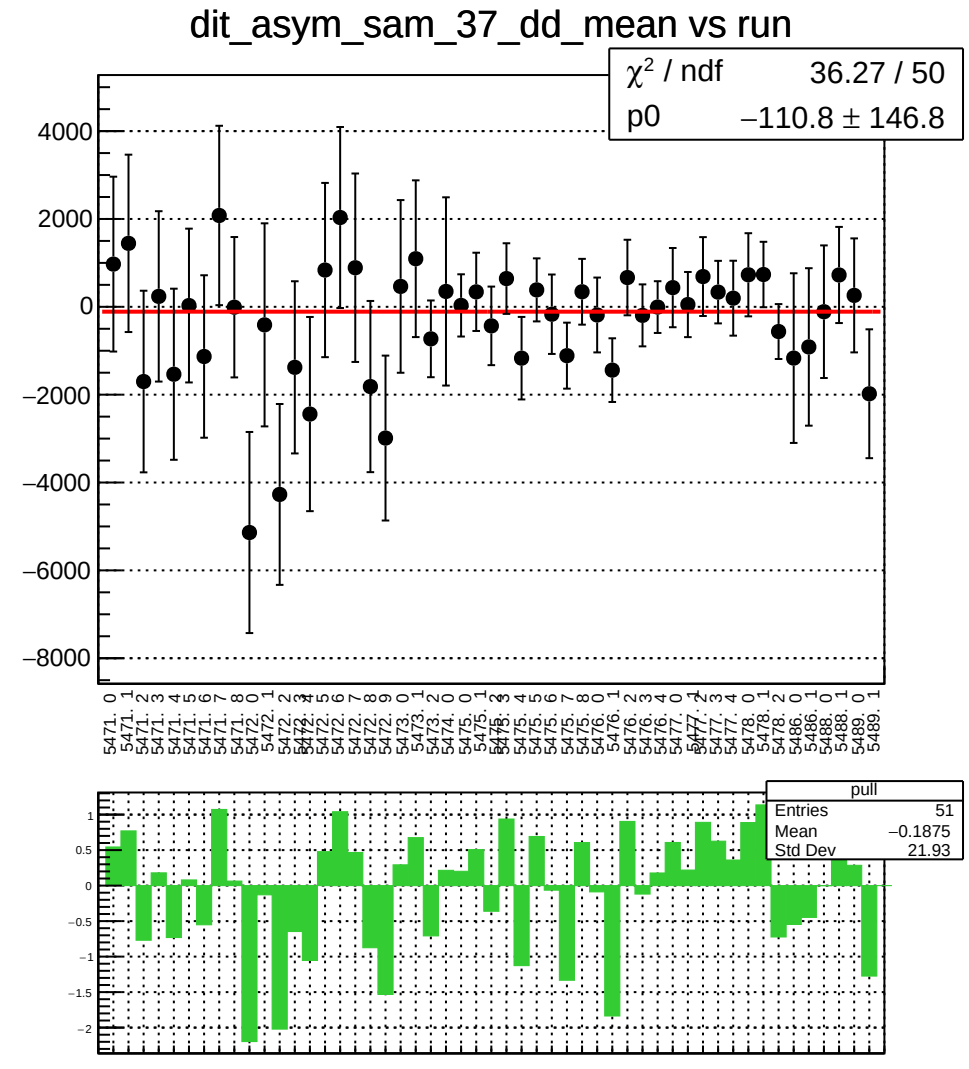
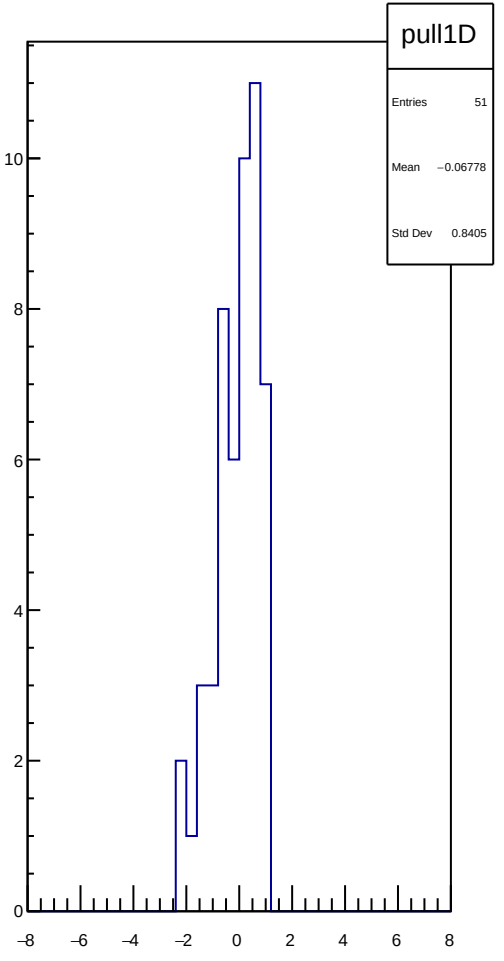
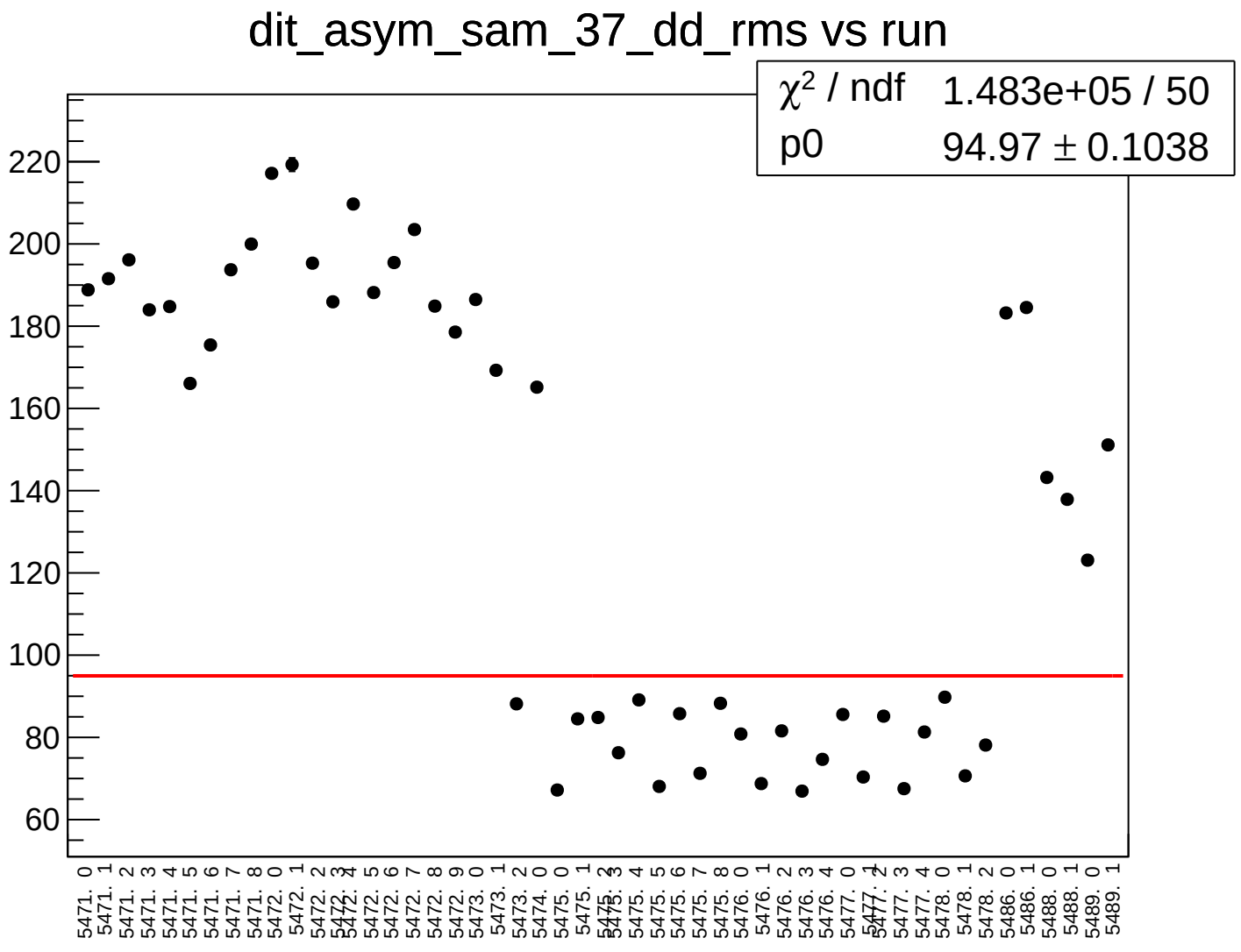
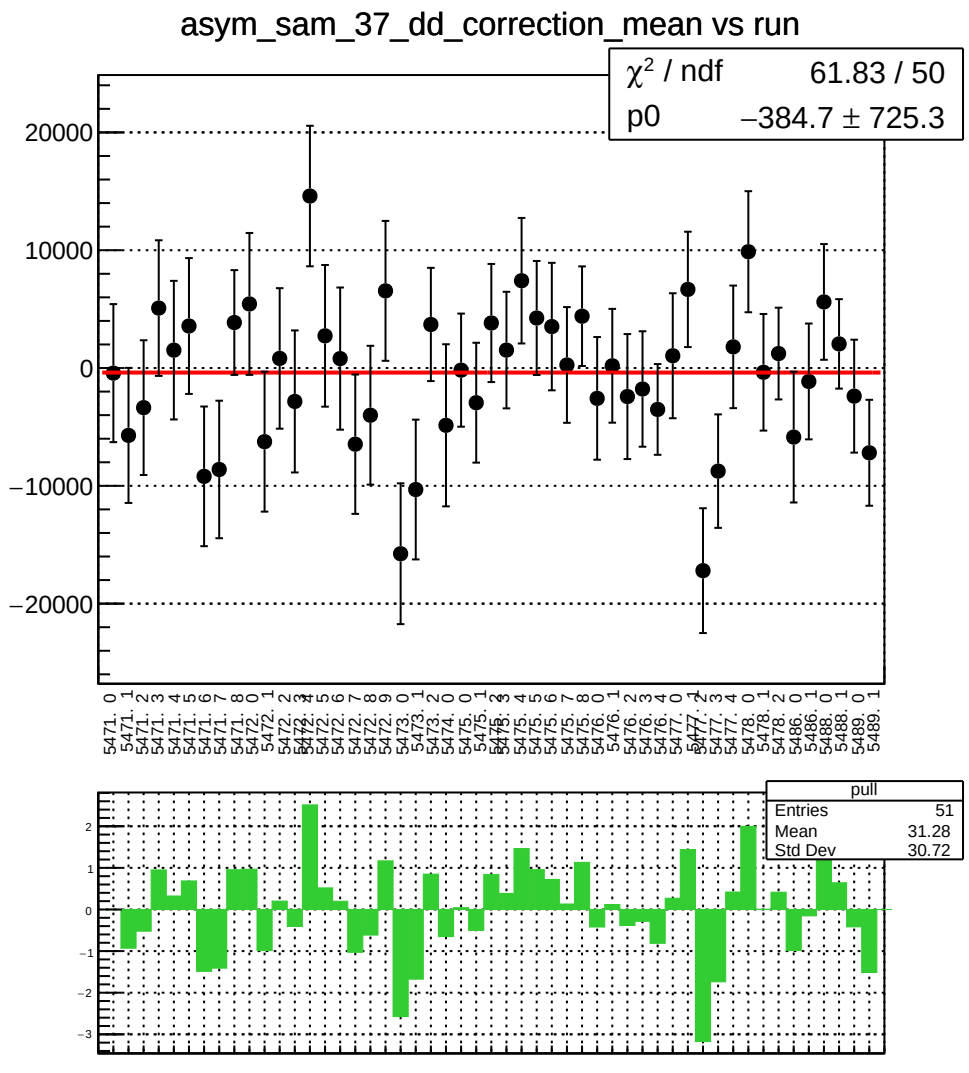
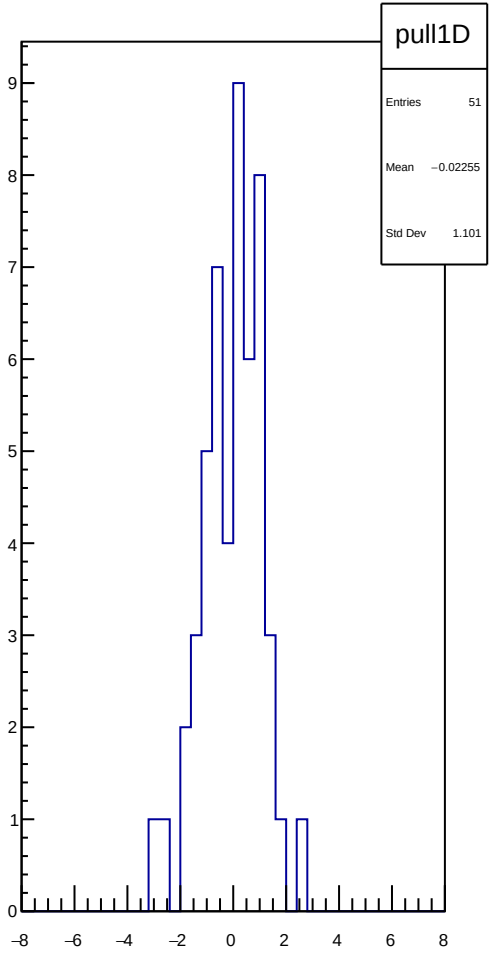
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

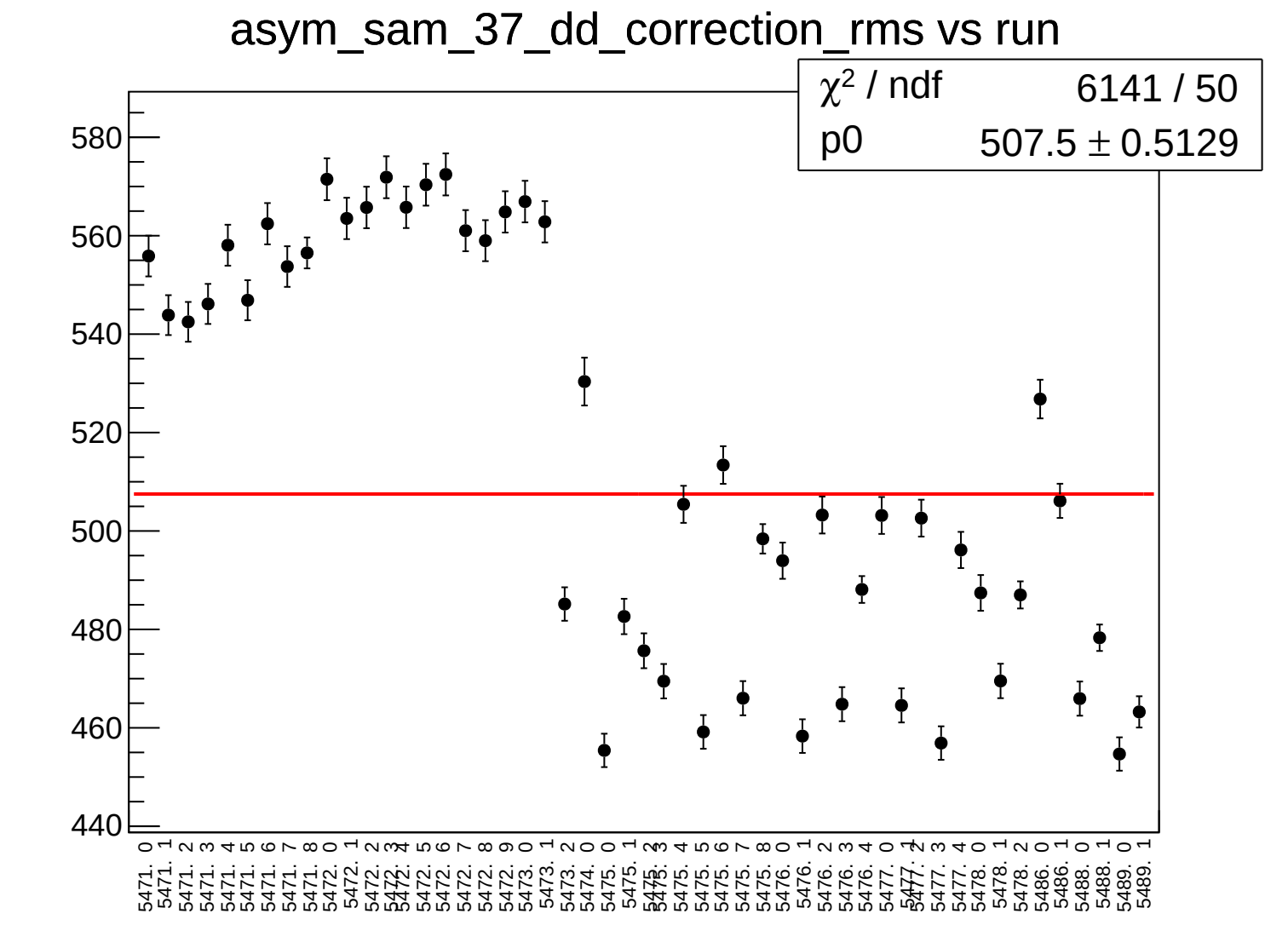

dit_asym_sam_37_dd_mean vs run
χ² / ndf 36.27 / 50
p0 −110.8 ± 146.8
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean −0.1875
Std Dev 21.93
1
0.5
0
−0.5
−1
−1.5
−2

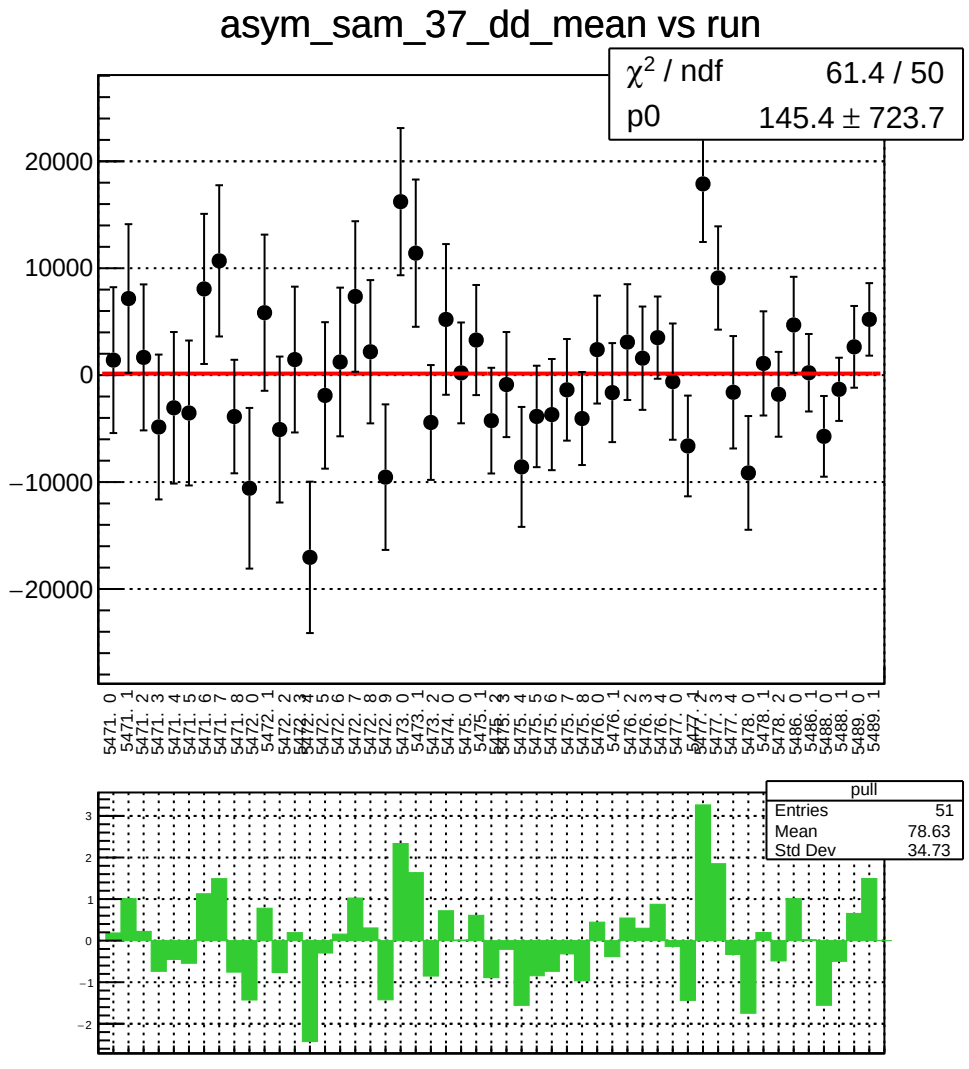

pull1D
Entries 51
Mean −0.06778
Std Dev 0.8405
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

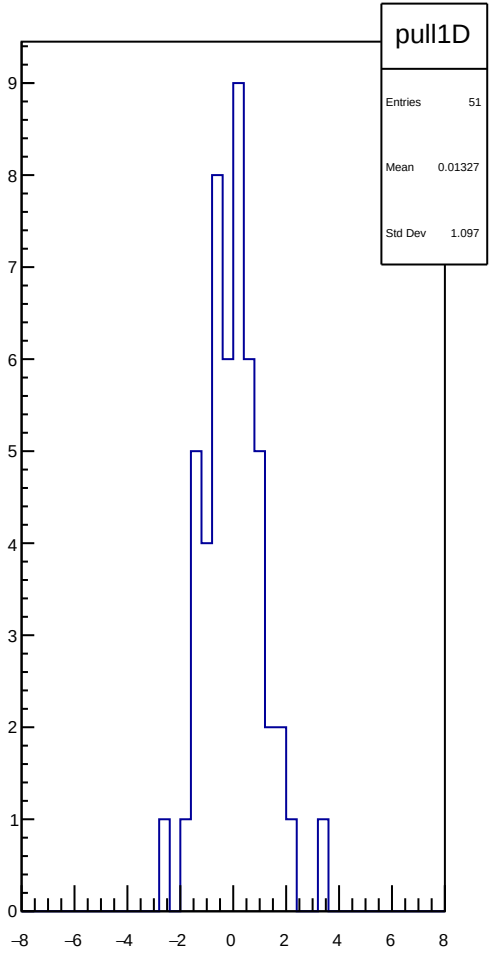

dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.483e+05 / 50
p0 94.97 ± 0.1038
220
200
180
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

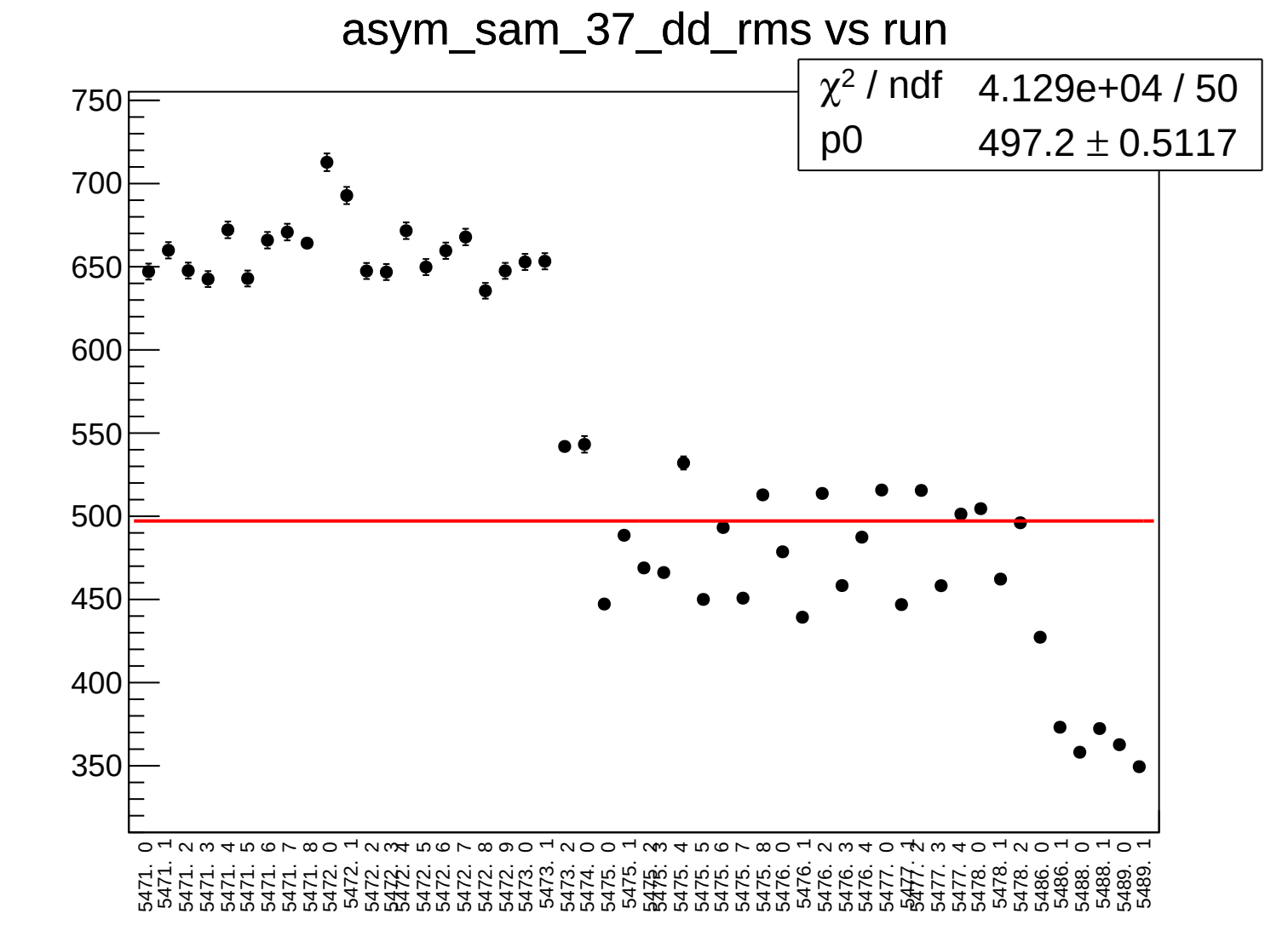

asym_sam_37_dd_correction_mean vs run
χ² / ndf 61.83 / 50
p0 −384.7 ± 725.3
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 31.28
Std Dev 30.72
2
1
0
−1
−2
−3

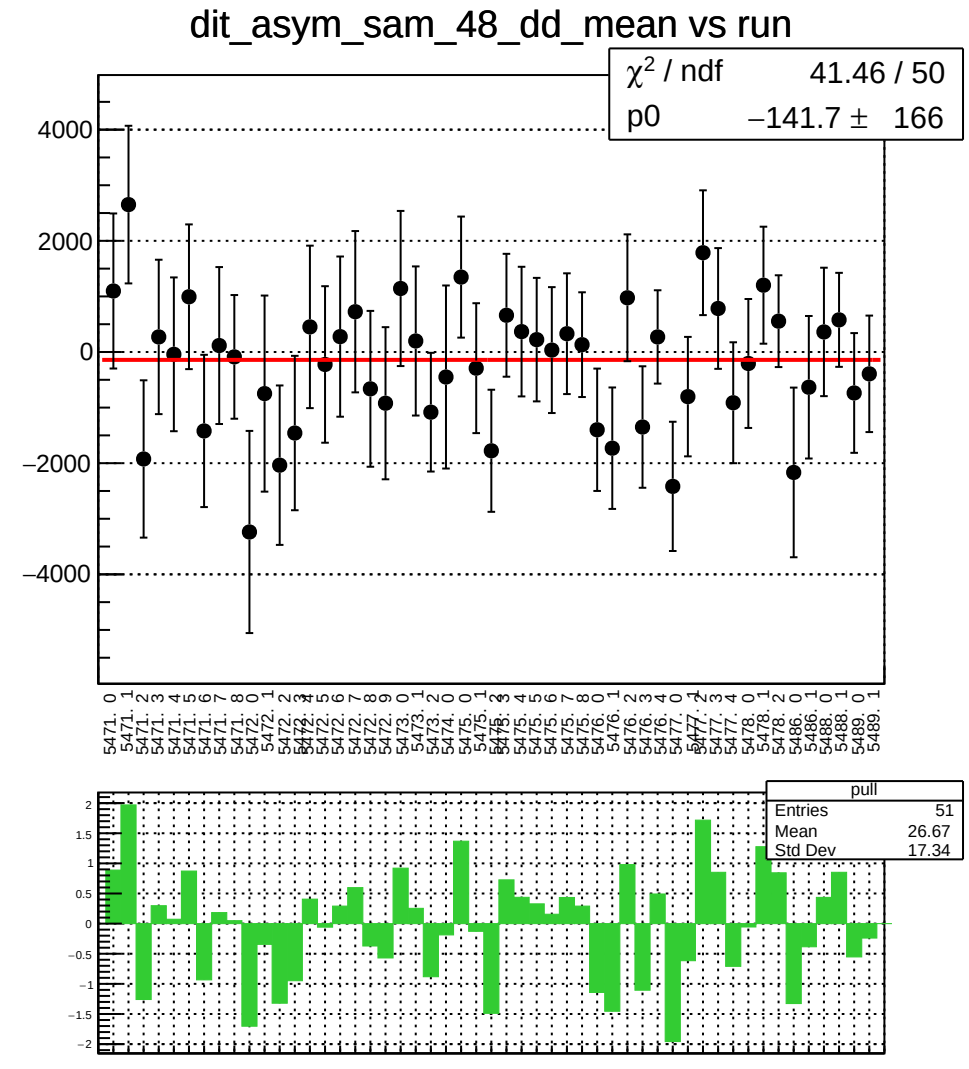

pull1D
Entries 51
Mean −0.02255
Std Dev 1.101
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

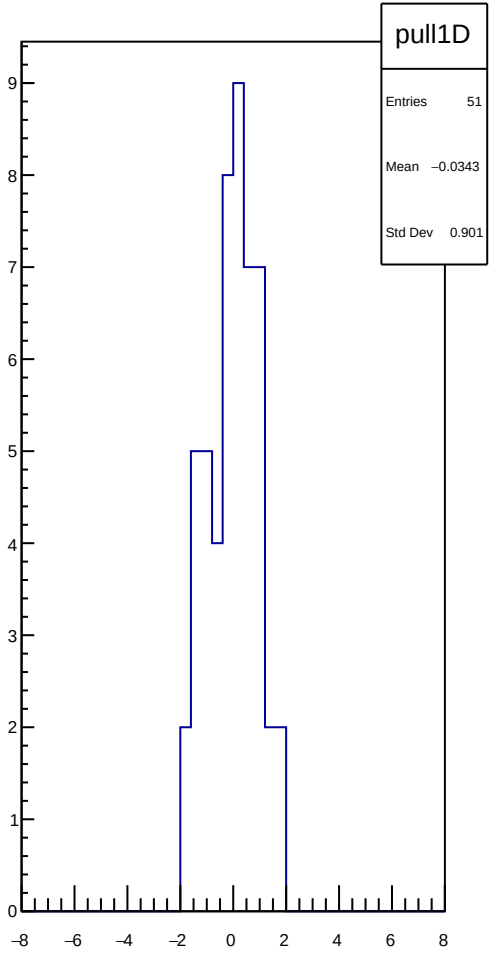

asym_sam_37_dd_correction_rms vs run
χ² / ndf 6141 / 50
p0 507.5 ± 0.5129
580
560
540
520
500
480
460
440
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

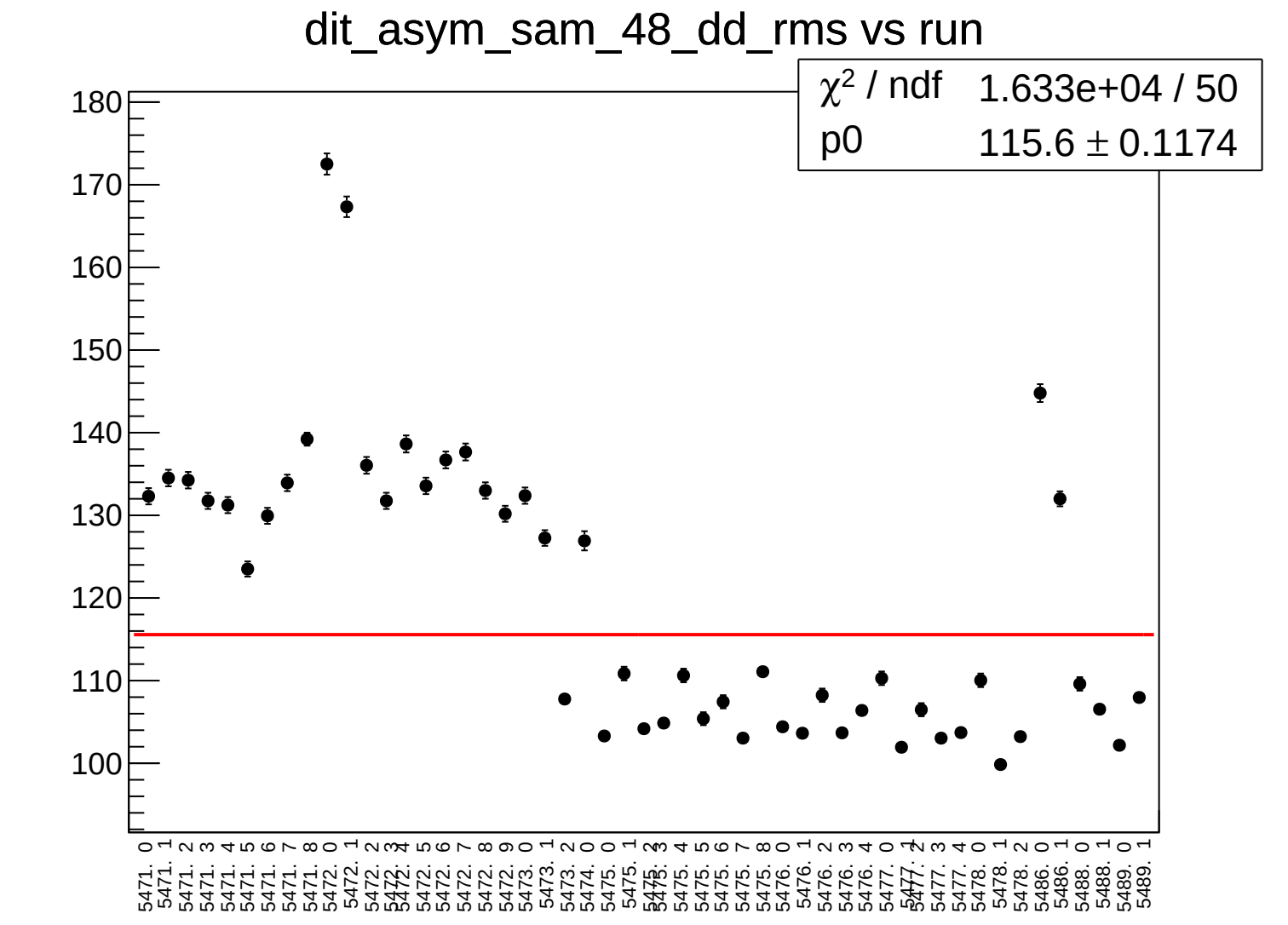

asym_sam_37_dd_mean vs run
χ² / ndf 61.4 / 50
p0 145.4 ± 723.7
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 78.63
Std Dev 34.73
3
2
1
0
−1
−2

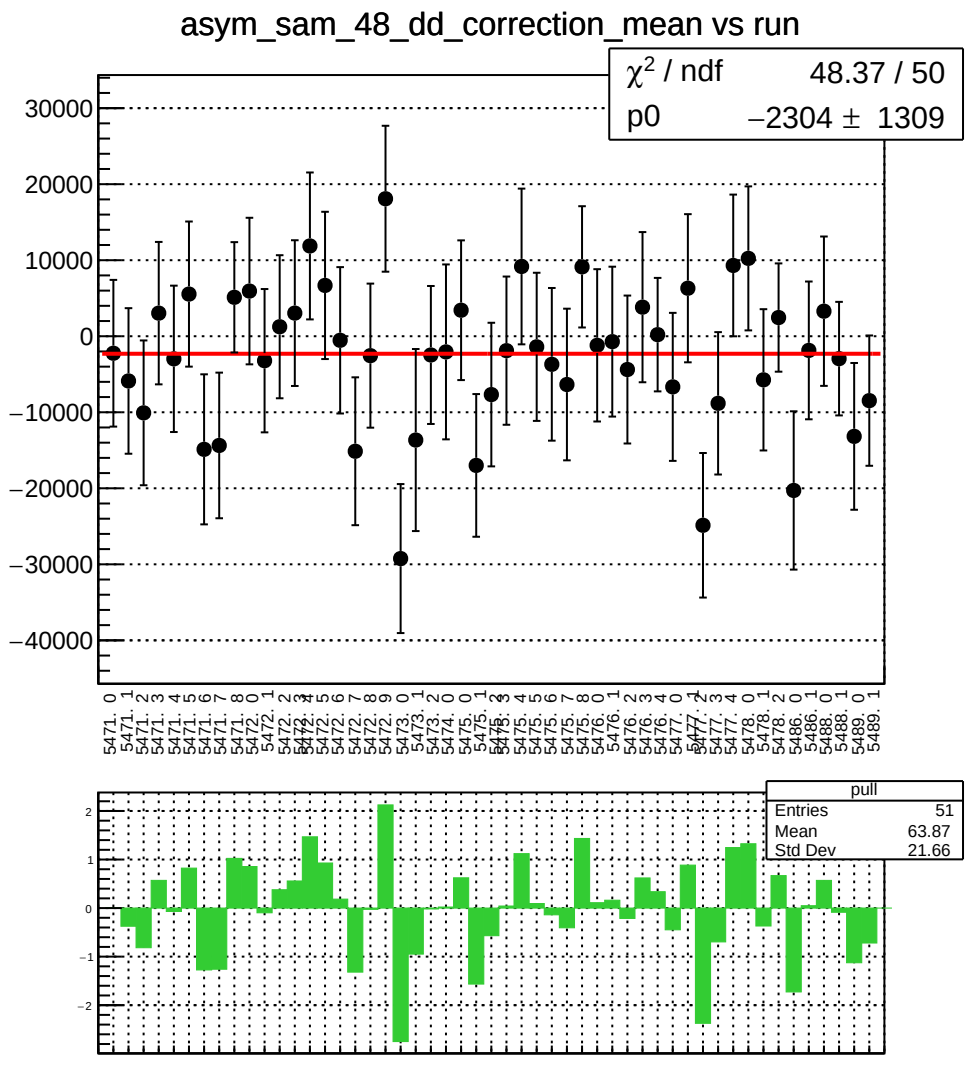

pull1D
Entries 51
Mean 0.01327
Std Dev 1.097
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

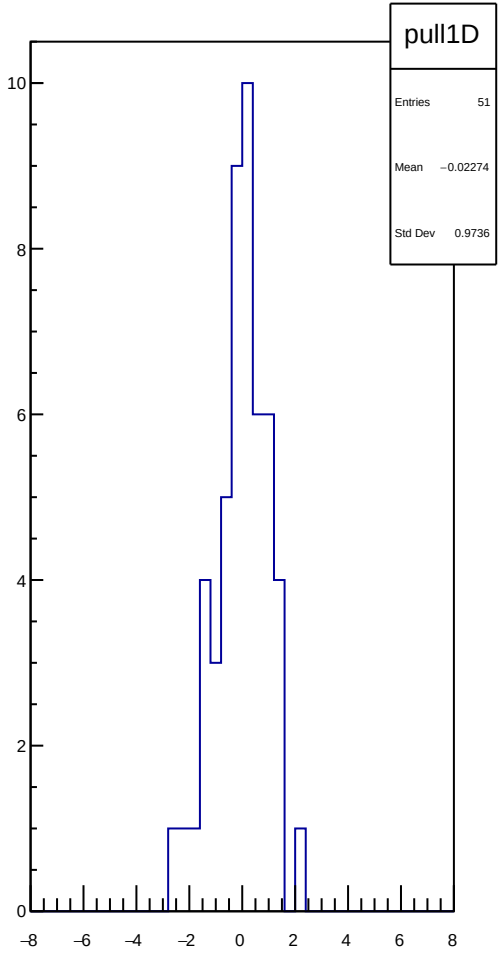

asym_sam_37_dd_rms vs run
χ² / ndf 4.129e+04 / 50
p0 497.2 ± 0.5117
750
700
650
600
550
500
450
400
350
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

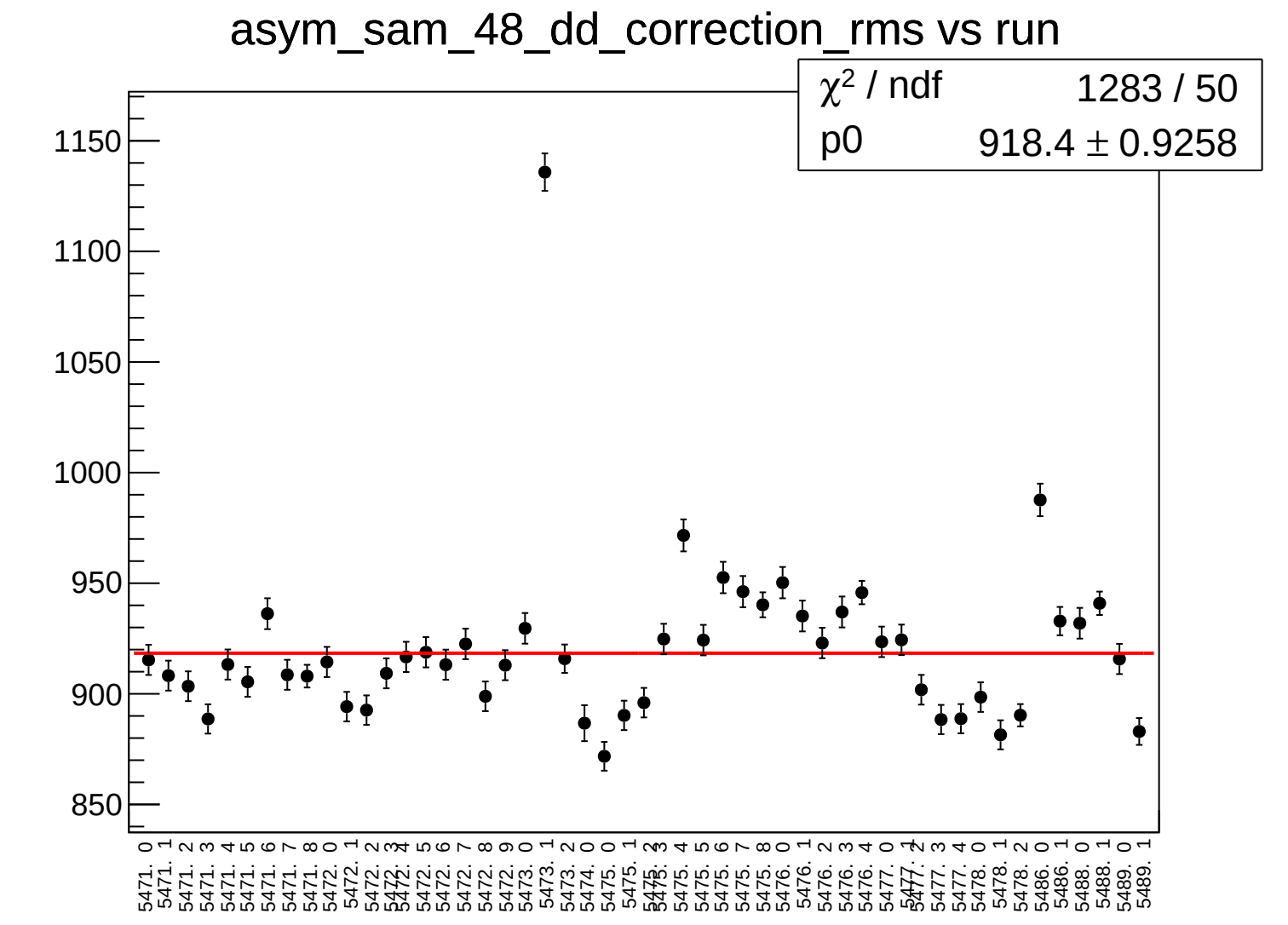

dit_asym_sam_48_dd_mean vs run
χ² / ndf 41.46 / 50
p0 −141.7 ± 166
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 26.67
Std Dev 17.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

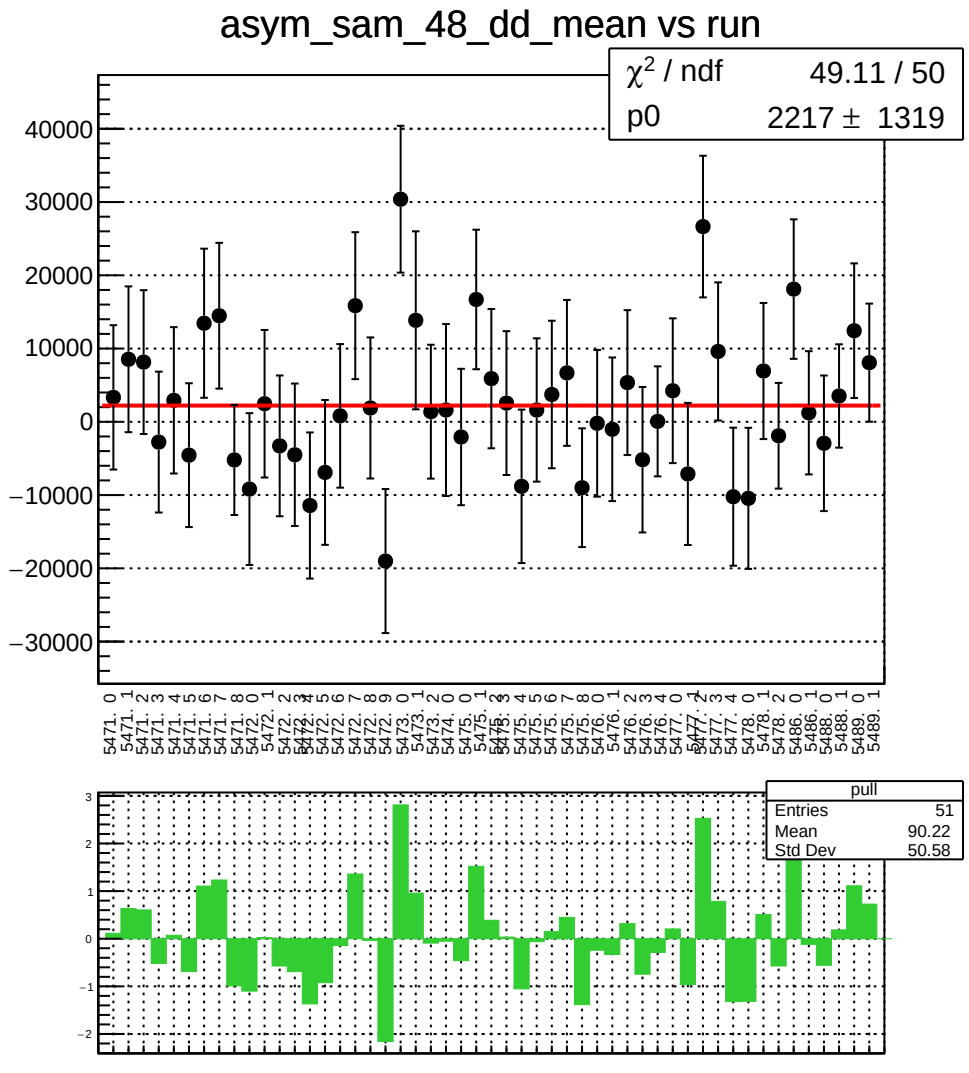

pull1D
Entries 51
Mean −0.0343
Std Dev 0.901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

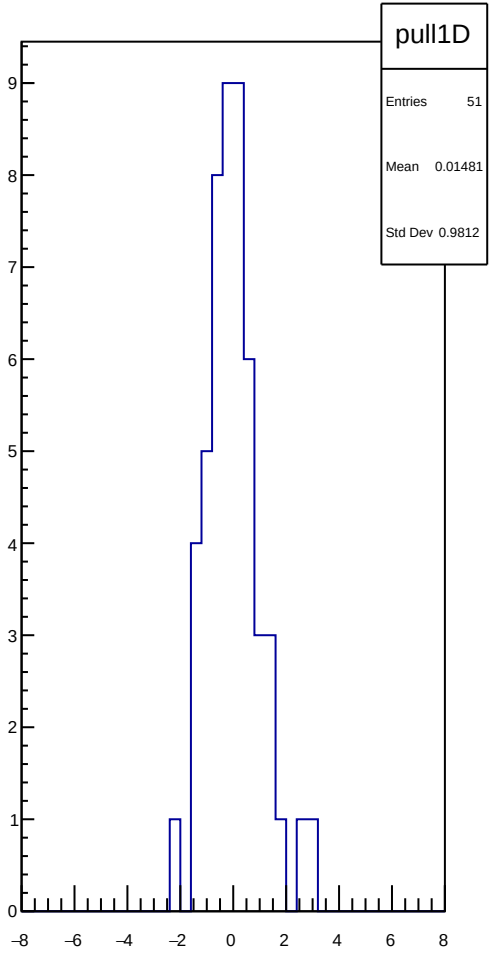

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.633e+04 / 50
p0 115.6 ± 0.1174
180
170
160
150
140
130
120
110
100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

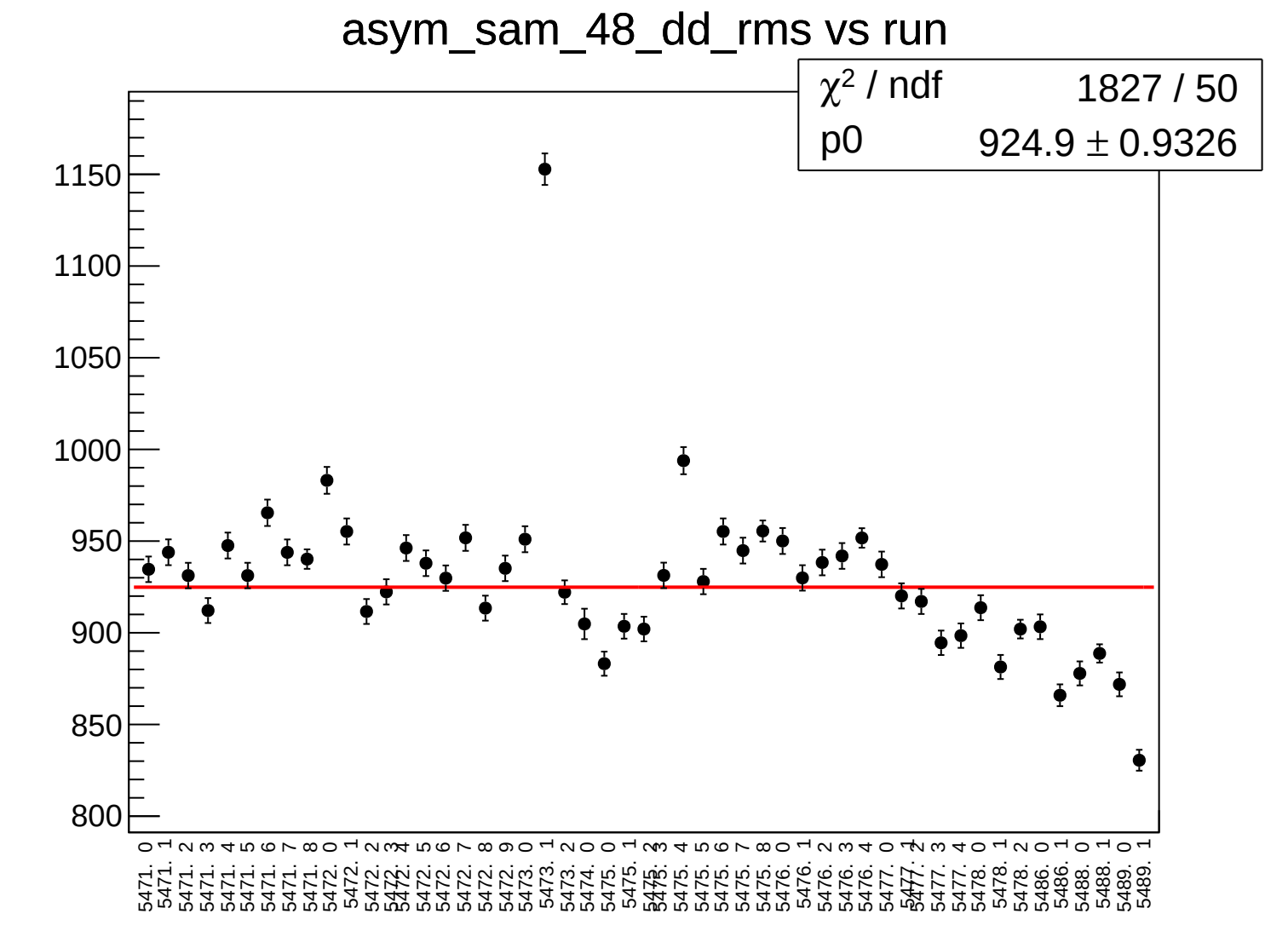

asym_sam_48_dd_correction_mean vs run
χ² / ndf 48.37 / 50
p0 −2304 ± 1309
pull
Entries 51
Mean 63.87
Std Dev 21.66


pull1D
Entries 51
Mean −0.02274
Std Dev 0.9736


asym_sam_48_dd_correction_rms vs run
χ² / ndf 1283 / 50
p0 918.4 ± 0.9258
1150
1100
1050
1000
950
900
850
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_sam_48_dd_mean vs run
χ² / ndf 49.11 / 50
p0 2217 ± 1319
pull
Entries 51
Mean 90.22
Std Dev 50.58


pull1D
Entries 51
Mean 0.01481
Std Dev 0.9812


asym_sam_48_dd_rms vs run
χ² / ndf 1827 / 50
p0 924.9 ± 0.9326
1150
1100
1050
1000
950
900
850
800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
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5478. 1
5478. 2
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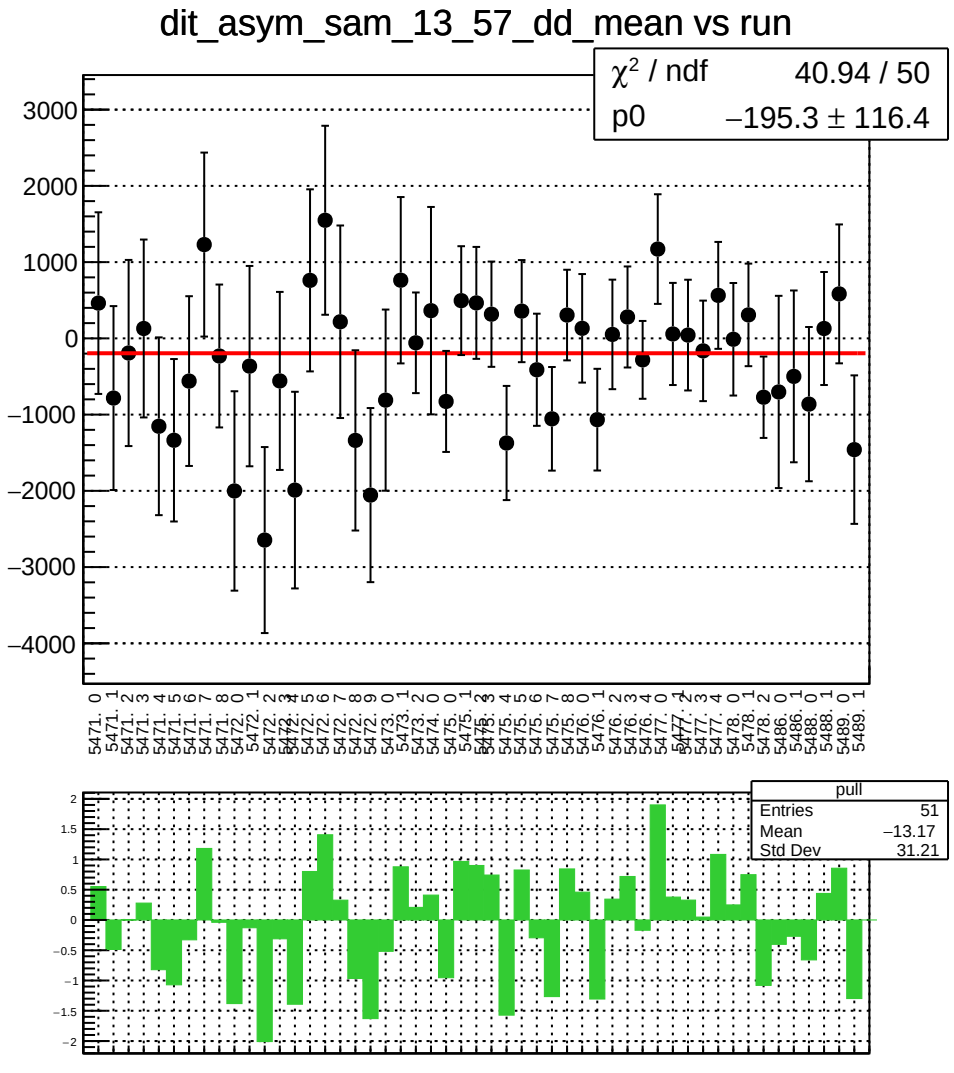
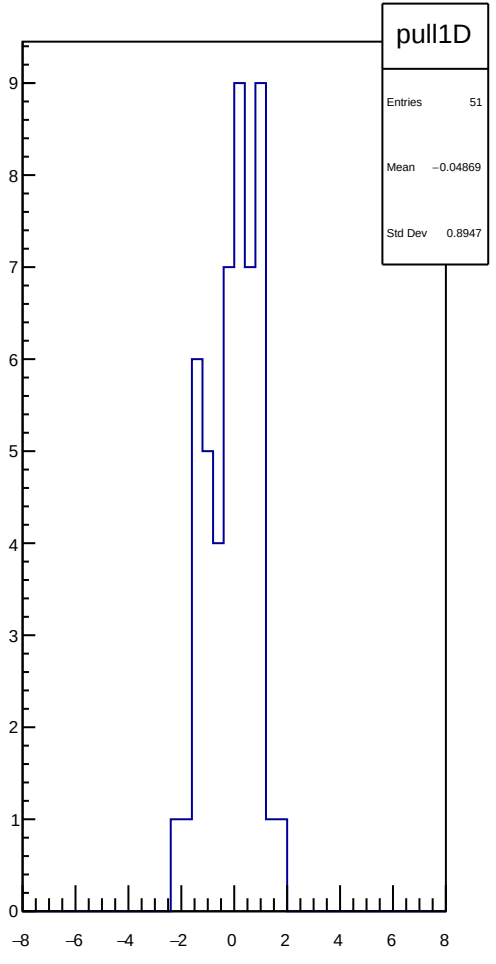
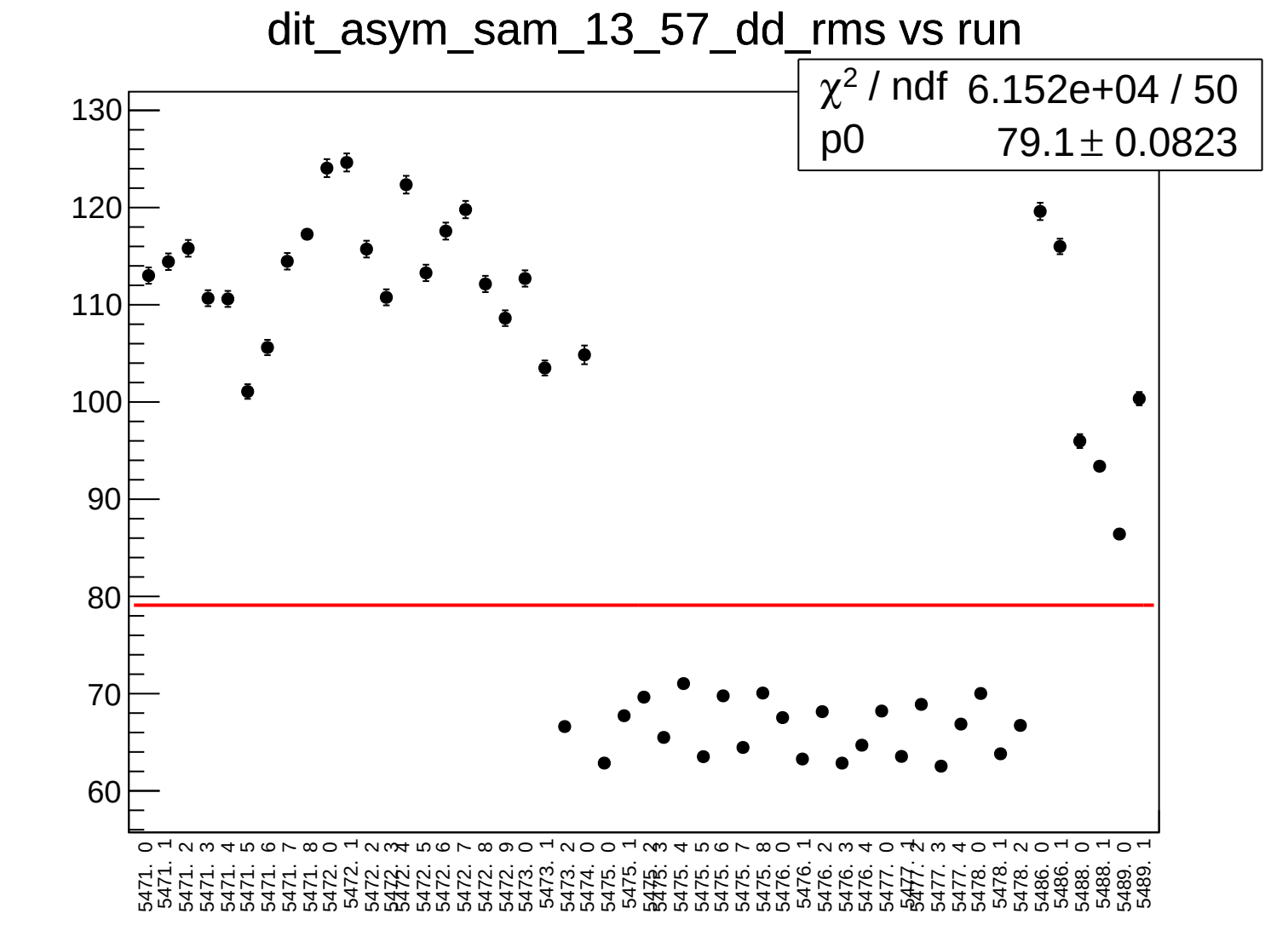
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 40.94 / 50
p0 −195.3 ± 116.4
pull
Entries 51
Mean −13.17
Std Dev 31.21


pull1D
Entries 51
Mean −0.04869
Std Dev 0.8947


dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 6.152e+04 / 50
p0 79.1 ± 0.0823
130
120
110
100
90
80
70
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
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5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
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5478. 1
5478. 2
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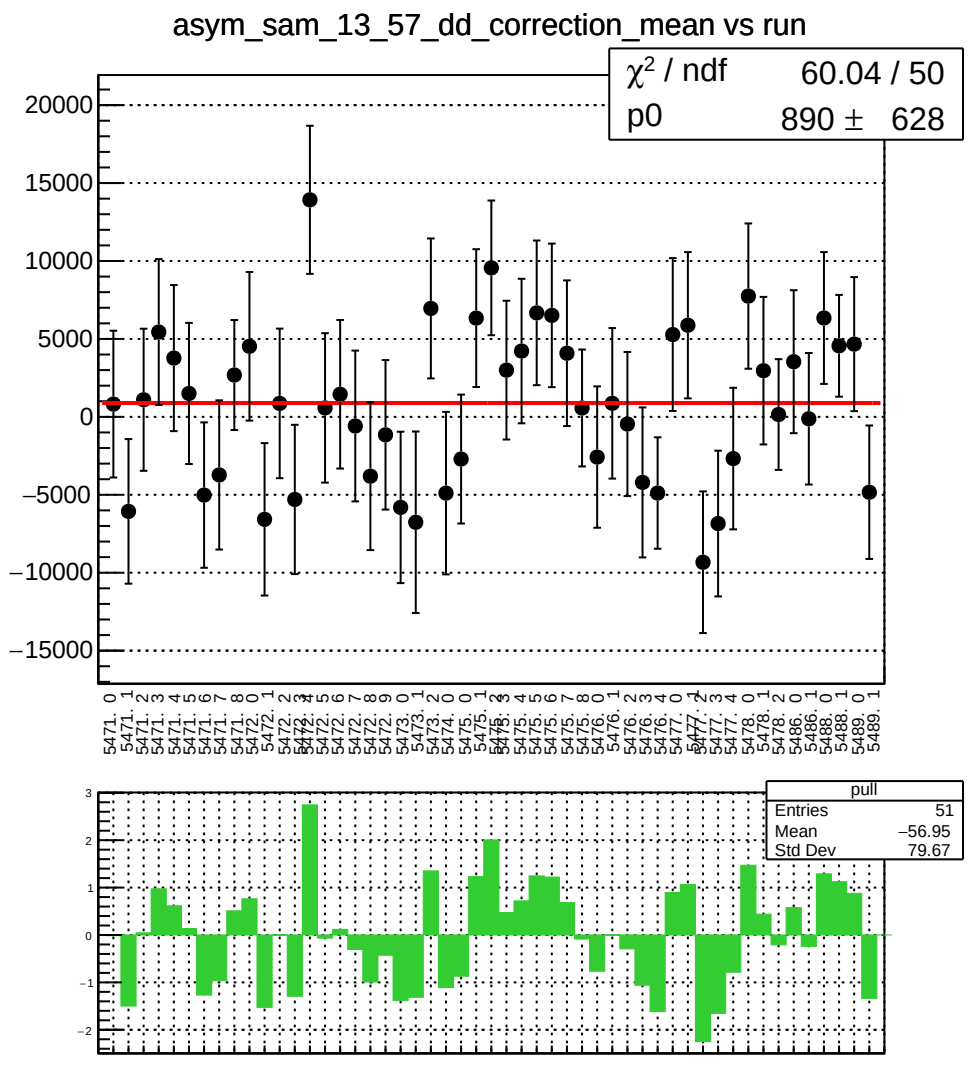
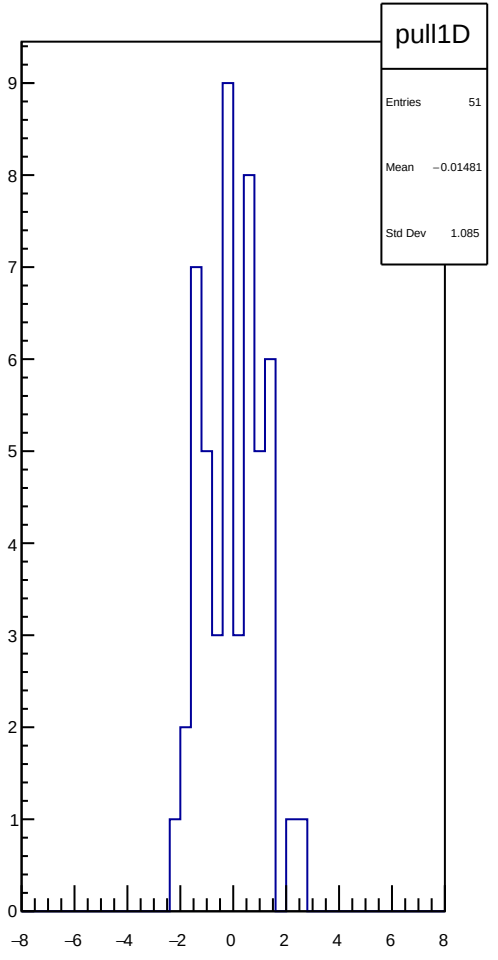
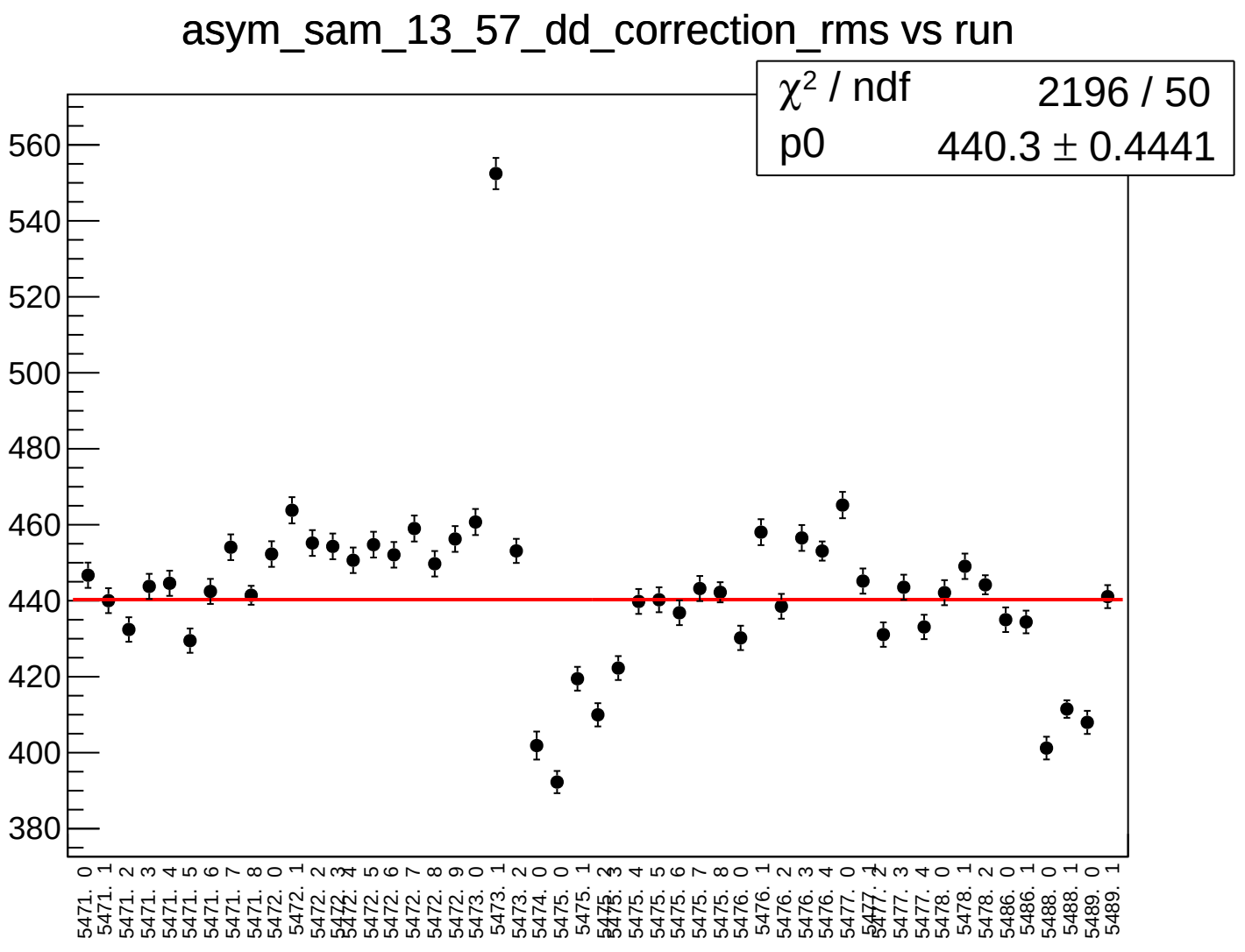
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 60.04 / 50
p0 890 ± 628
pull
Entries 51
Mean −56.95
Std Dev 79.67


pull1D
Entries 51
Mean −0.01481
Std Dev 1.085


asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2196 / 50
p0 440.3 ± 0.4441
560
540
520
500
480
460
440
420
400
380
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
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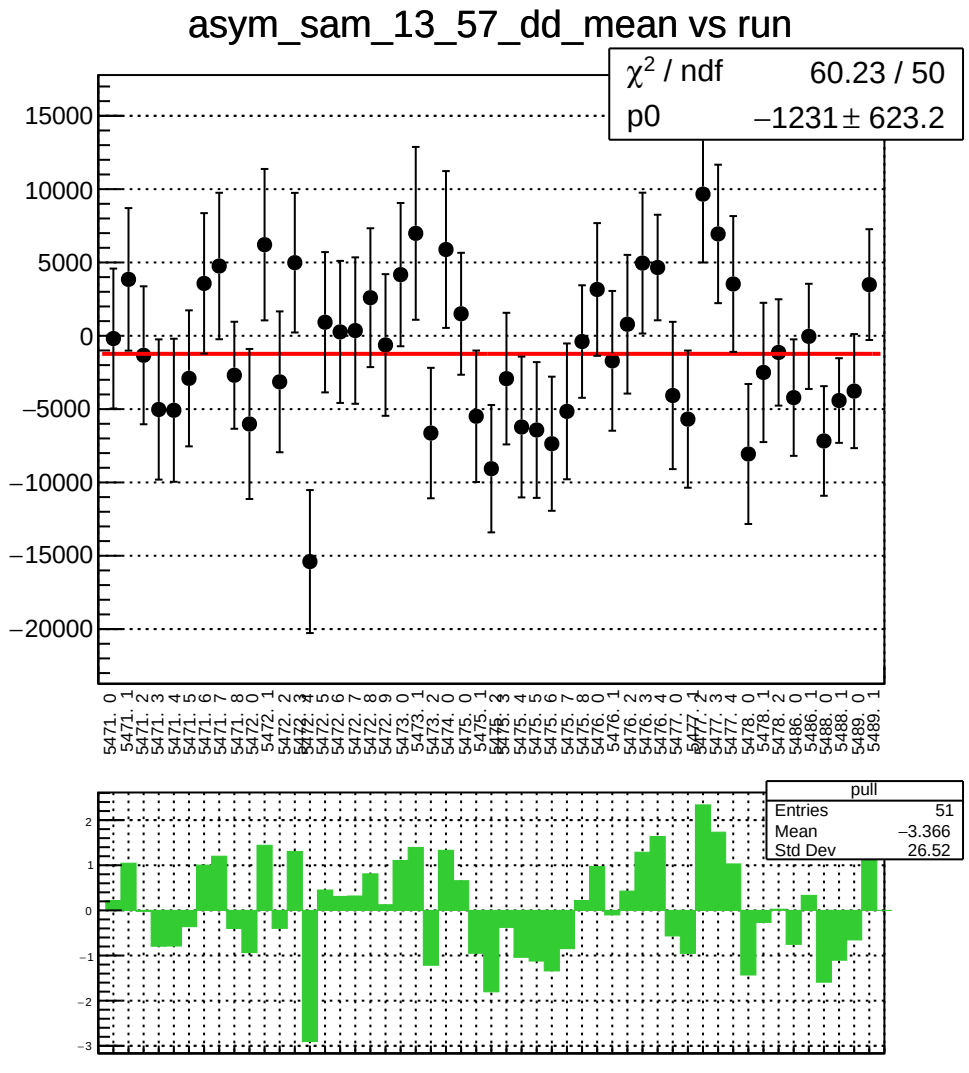
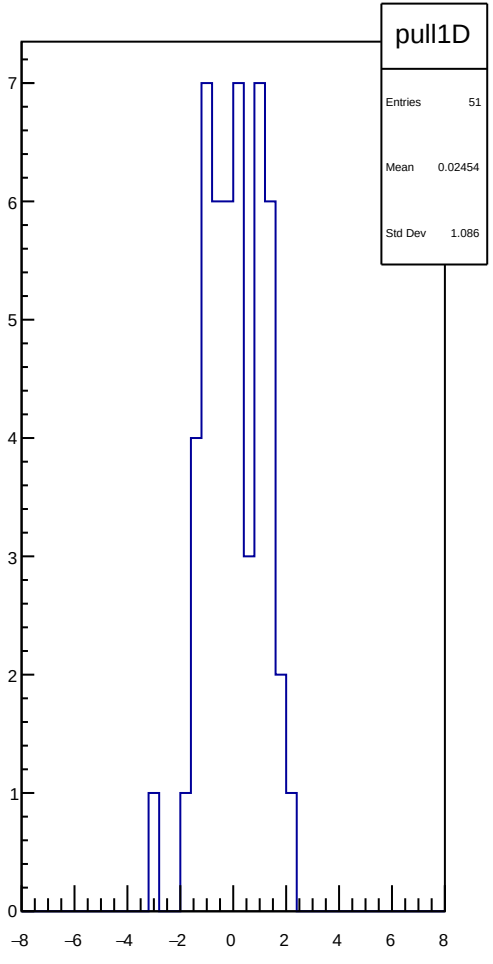
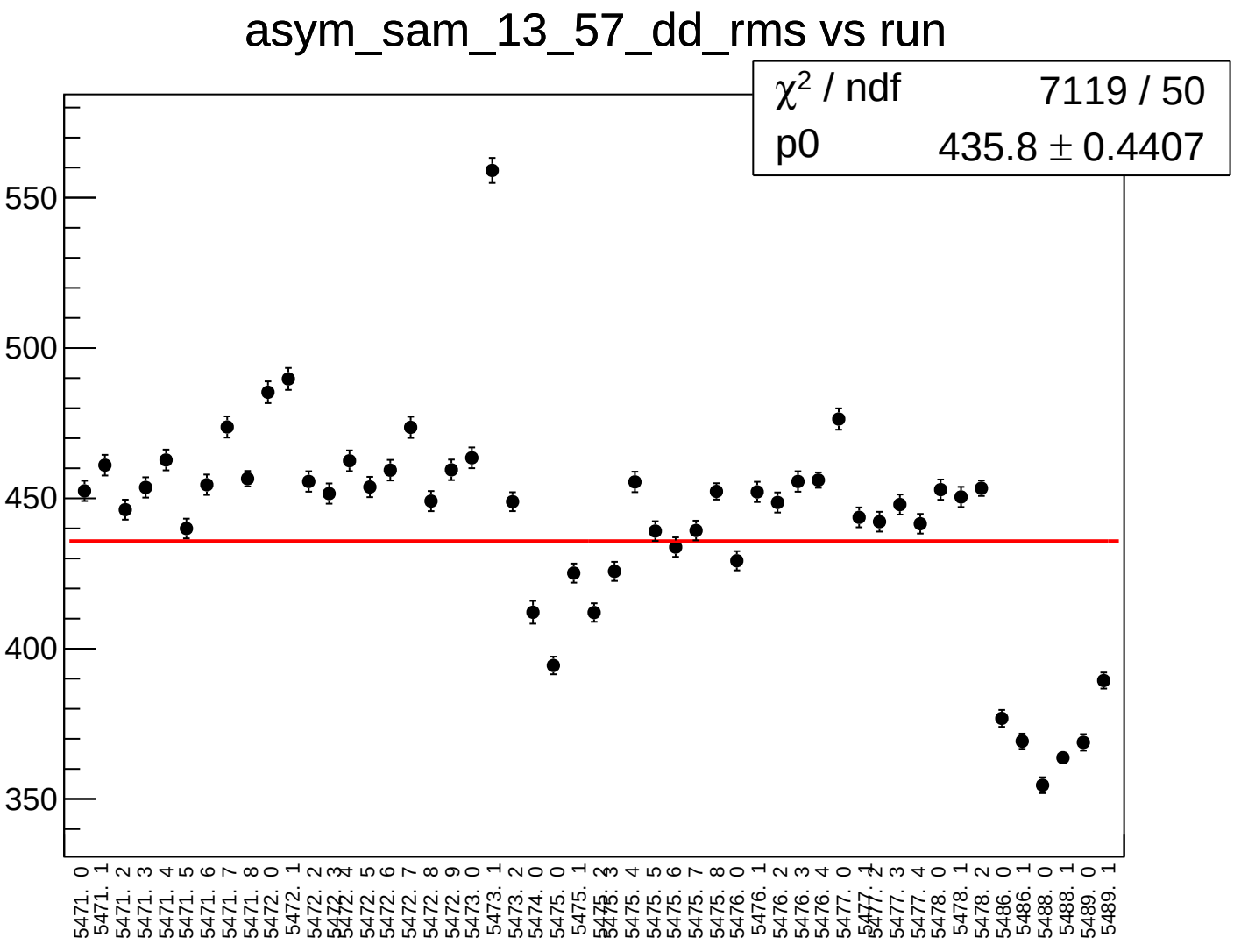
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_sam_13_57_dd_mean vs run
χ² / ndf 60.23 / 50
p0 −1231 ± 623.2
pull
Entries 51
Mean −3.366
Std Dev 26.52


pull1D
Entries 51
Mean 0.02454
Std Dev 1.086


asym_sam_13_57_dd_rms vs run
χ² / ndf 7119 / 50
p0 435.8 ± 0.4407
550
500
450
400
350
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
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5475. 2
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5476. 0
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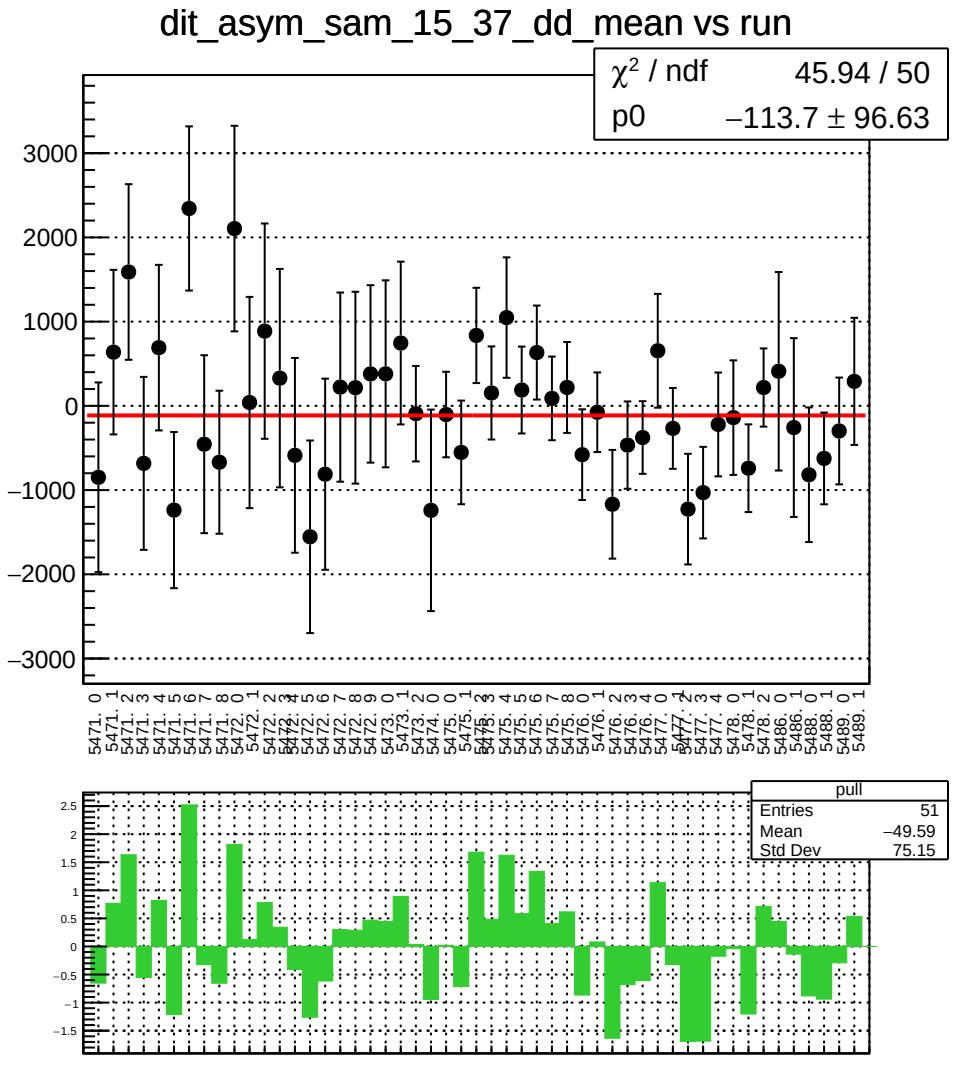
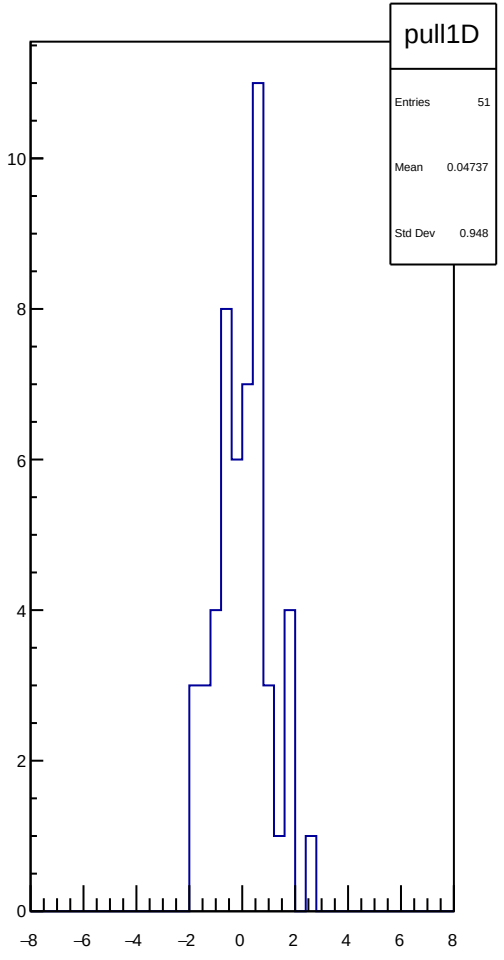
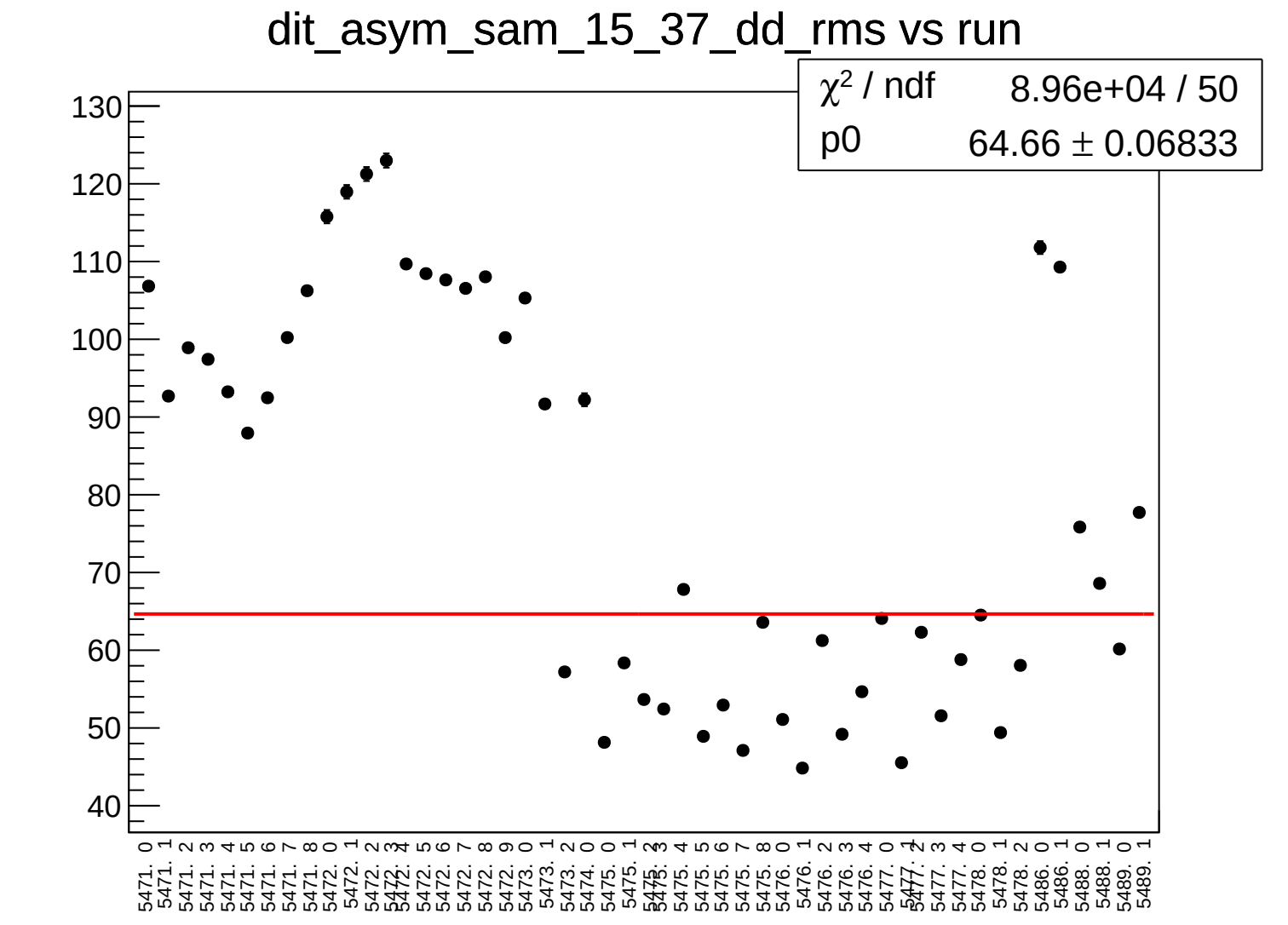
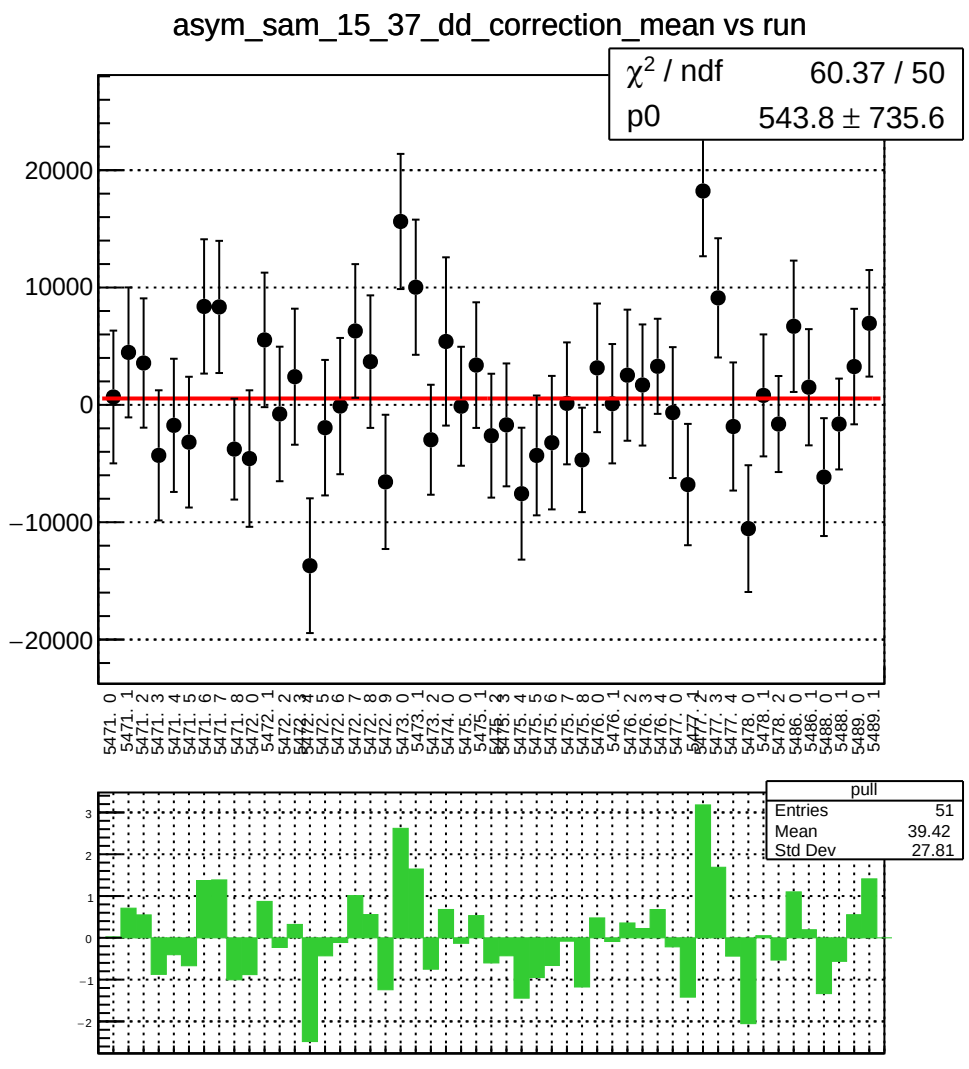
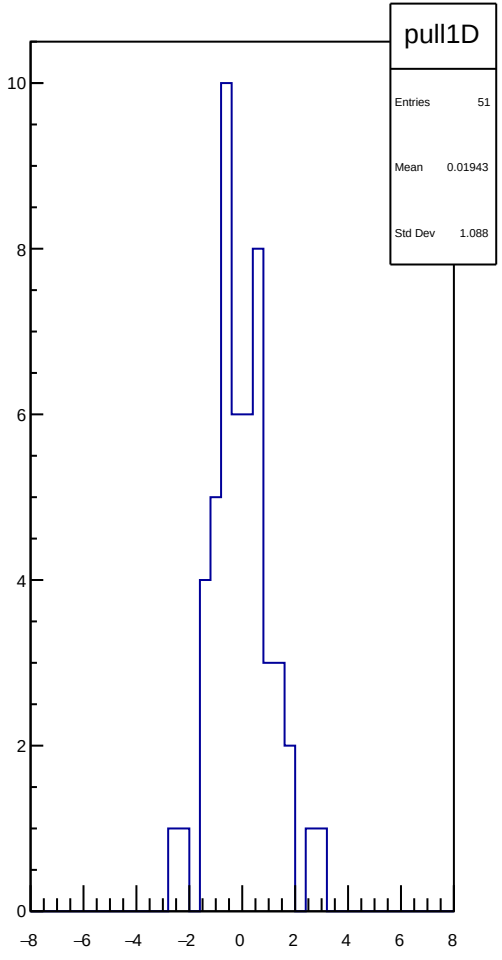
5489. 0
5489. 1

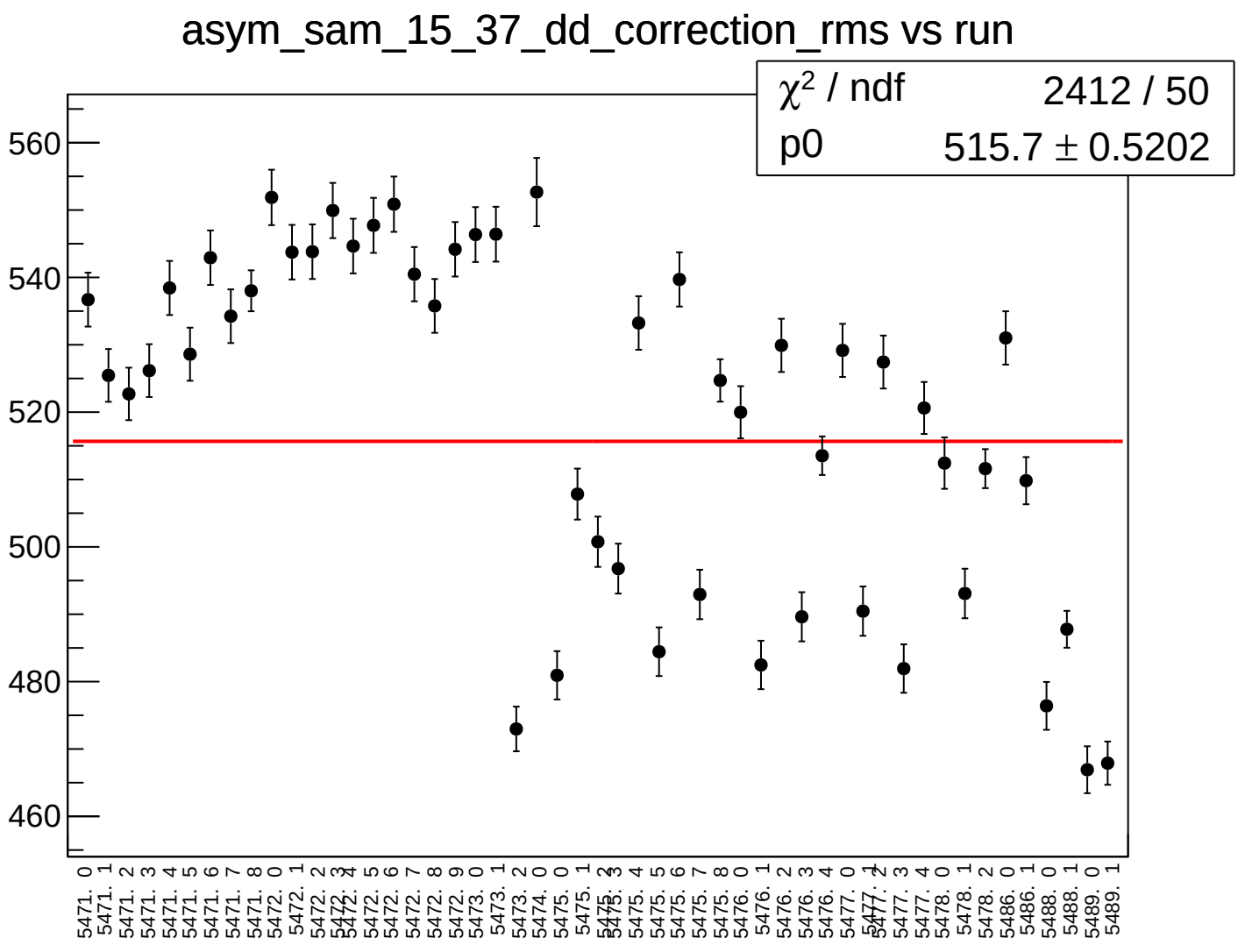

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 45.94 / 50
p0 −113.7 ± 96.63
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −49.59
Std Dev 75.15
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

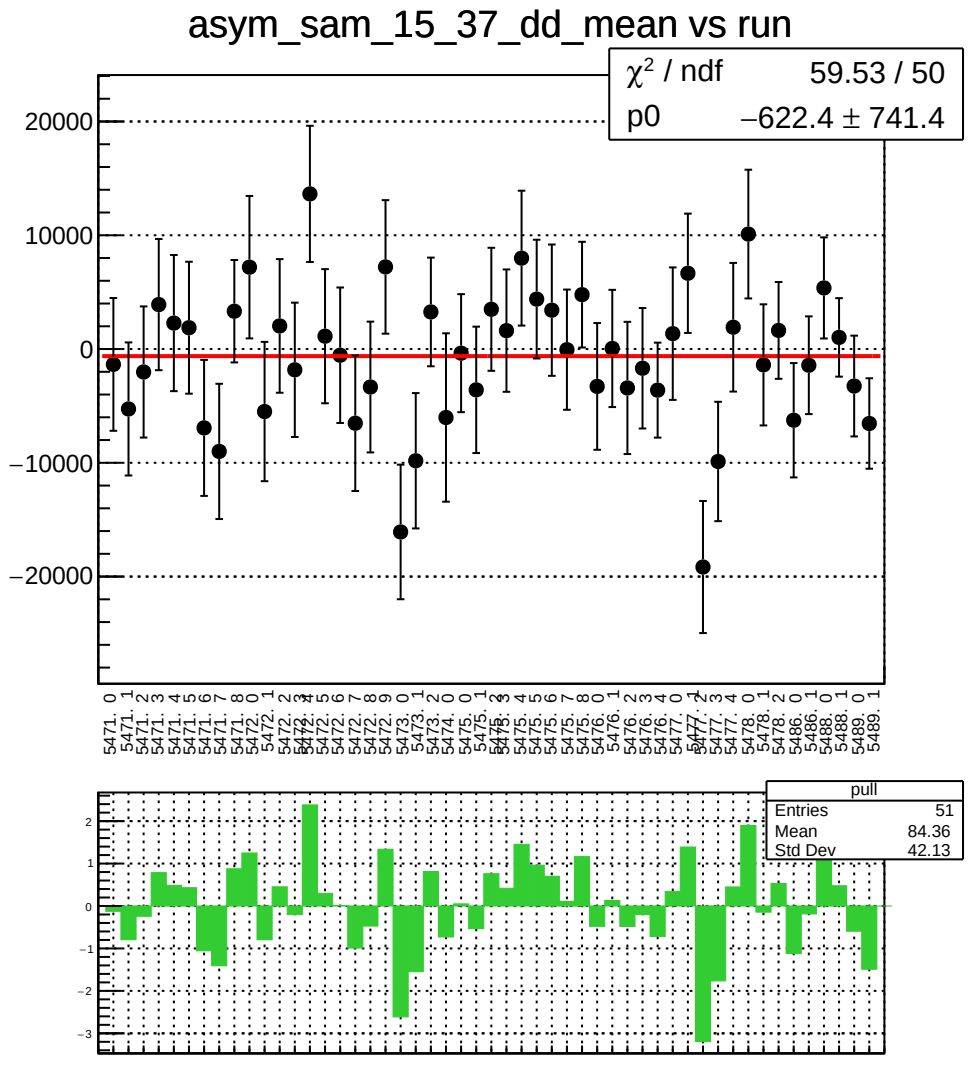

pull1D
Entries 51
Mean 0.04737
Std Dev 0.948
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

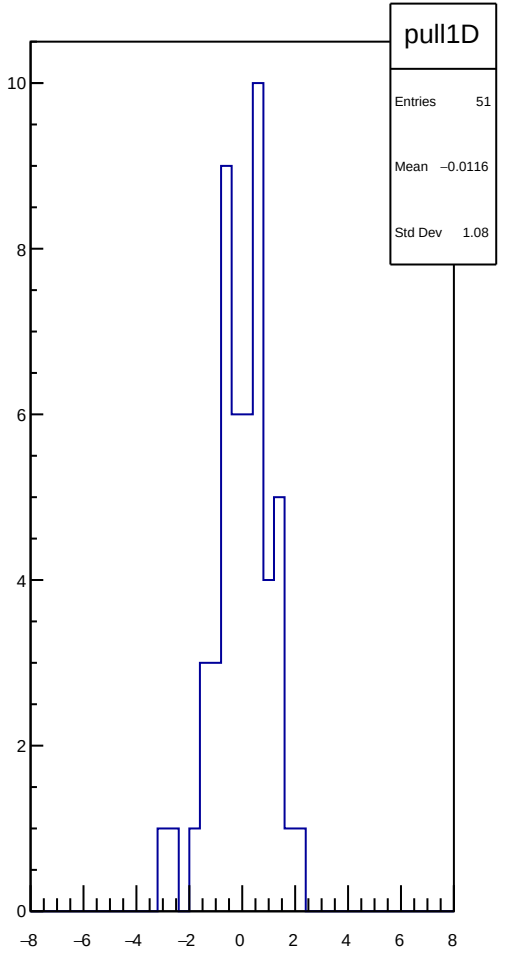

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 8.96e+04 / 50
p0 64.66 ± 0.06833
130
120
110
100
90
80
70
60
50
40
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

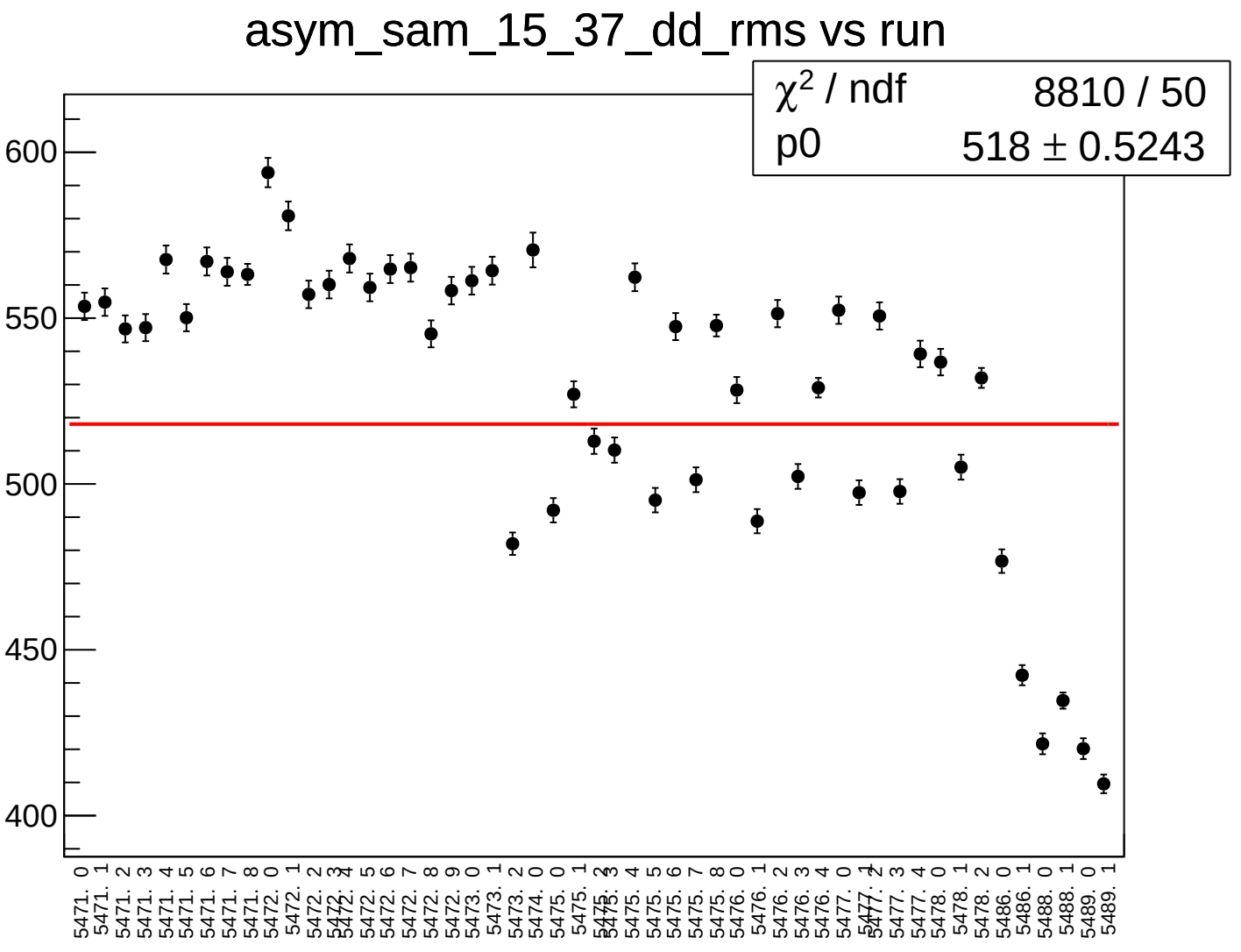

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 60.37 / 50
p0 543.8 ± 735.6
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 39.42
Std Dev 27.81
3
2
1
0
−1
−2

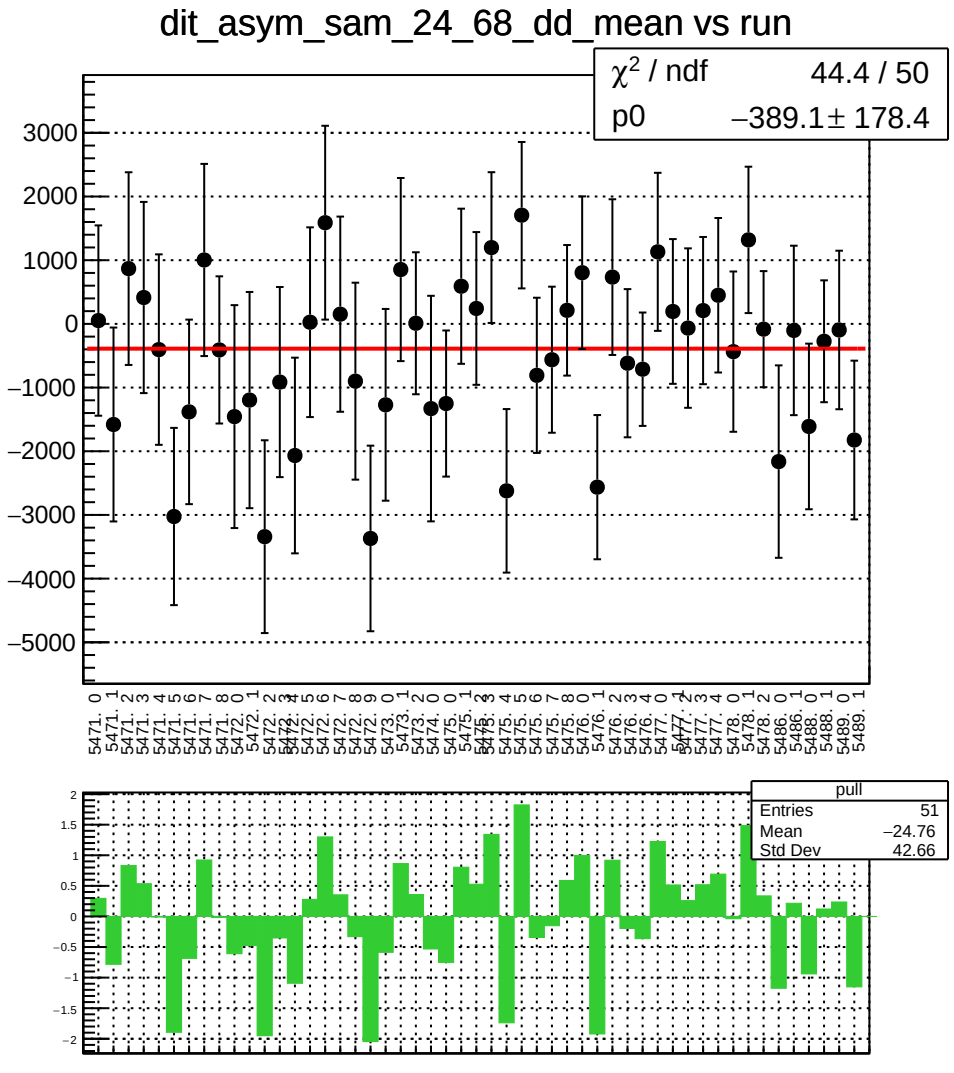

pull1D
Entries 51
Mean 0.01943
Std Dev 1.088
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

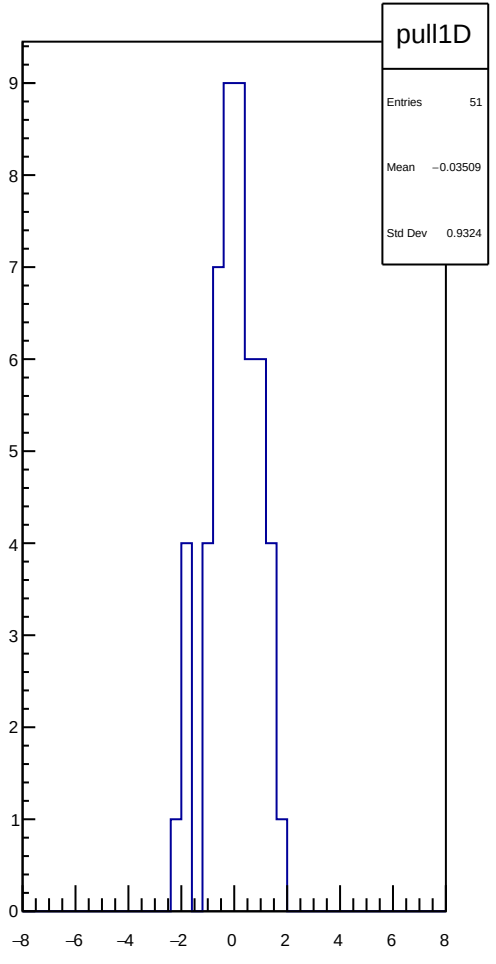

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2412 / 50
p0 515.7 ± 0.5202
560
540
520
500
480
460
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

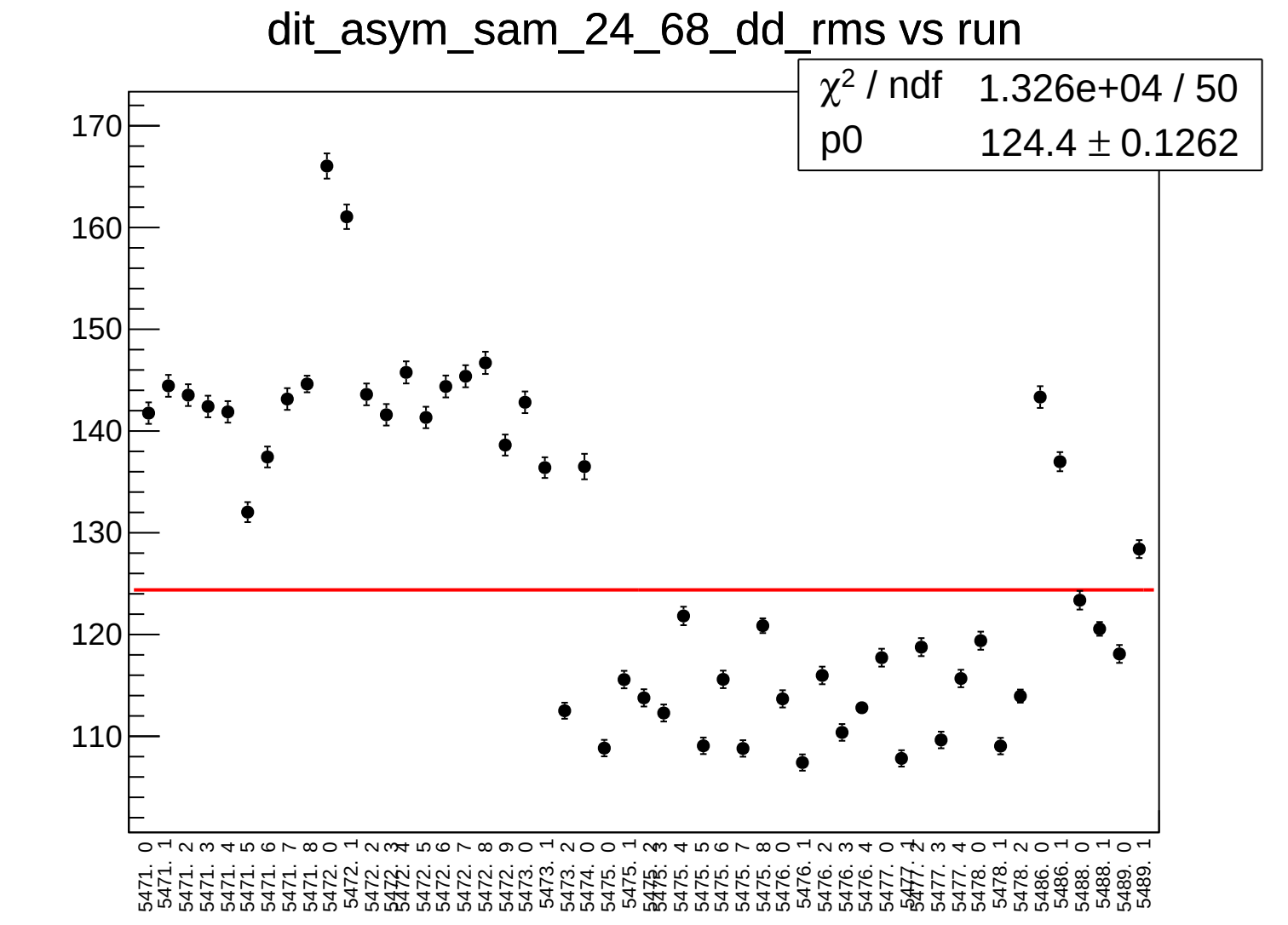

asym_sam_15_37_dd_mean vs run
χ² / ndf 59.53 / 50
p0 −622.4 ± 741.4
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 84.36
Std Dev 42.13
2
1
0
−1
−2
−3

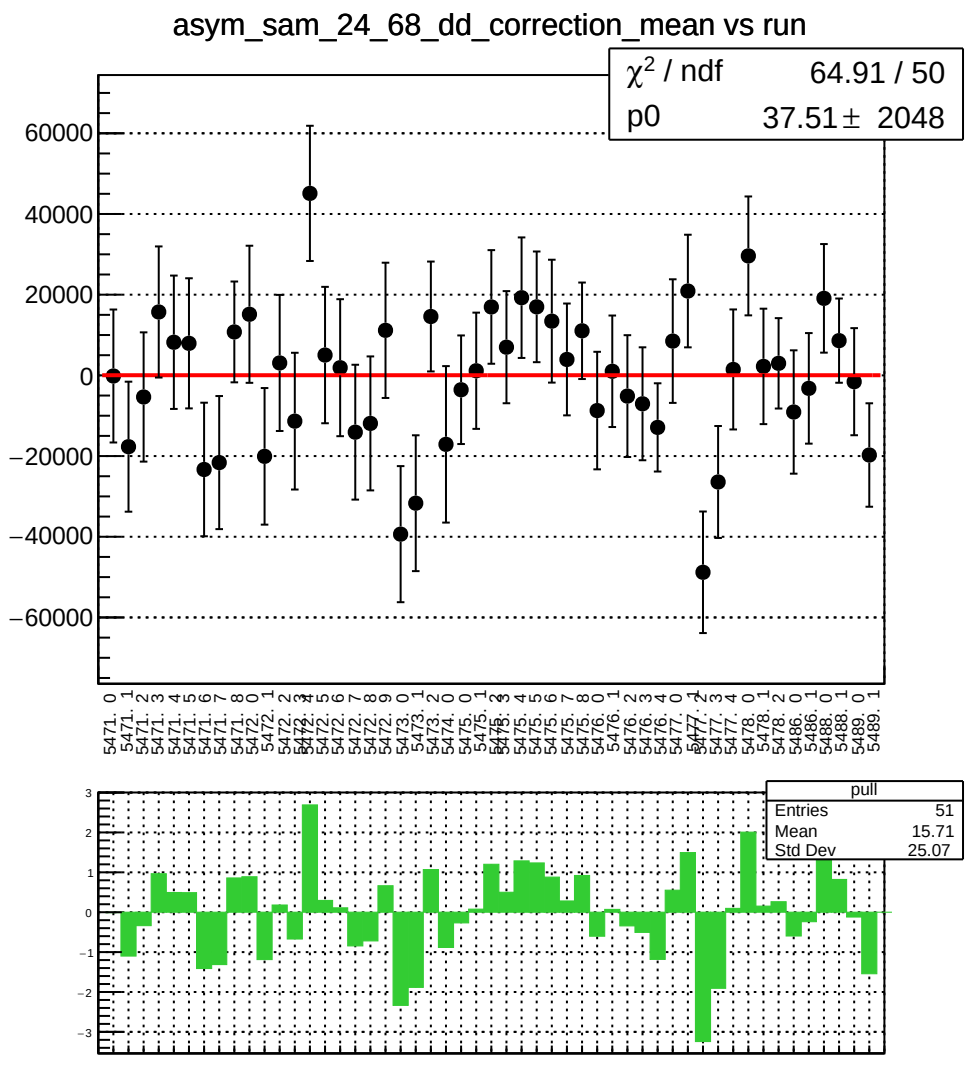

pull1D
Entries 51
Mean −0.0116
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

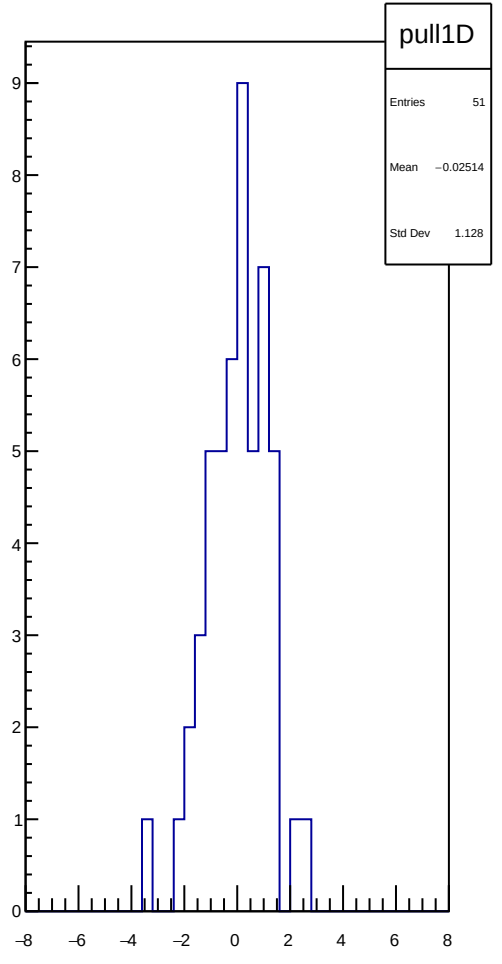

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 8810 / 50
p0 518 ± 0.5243
600
550
500
450
400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

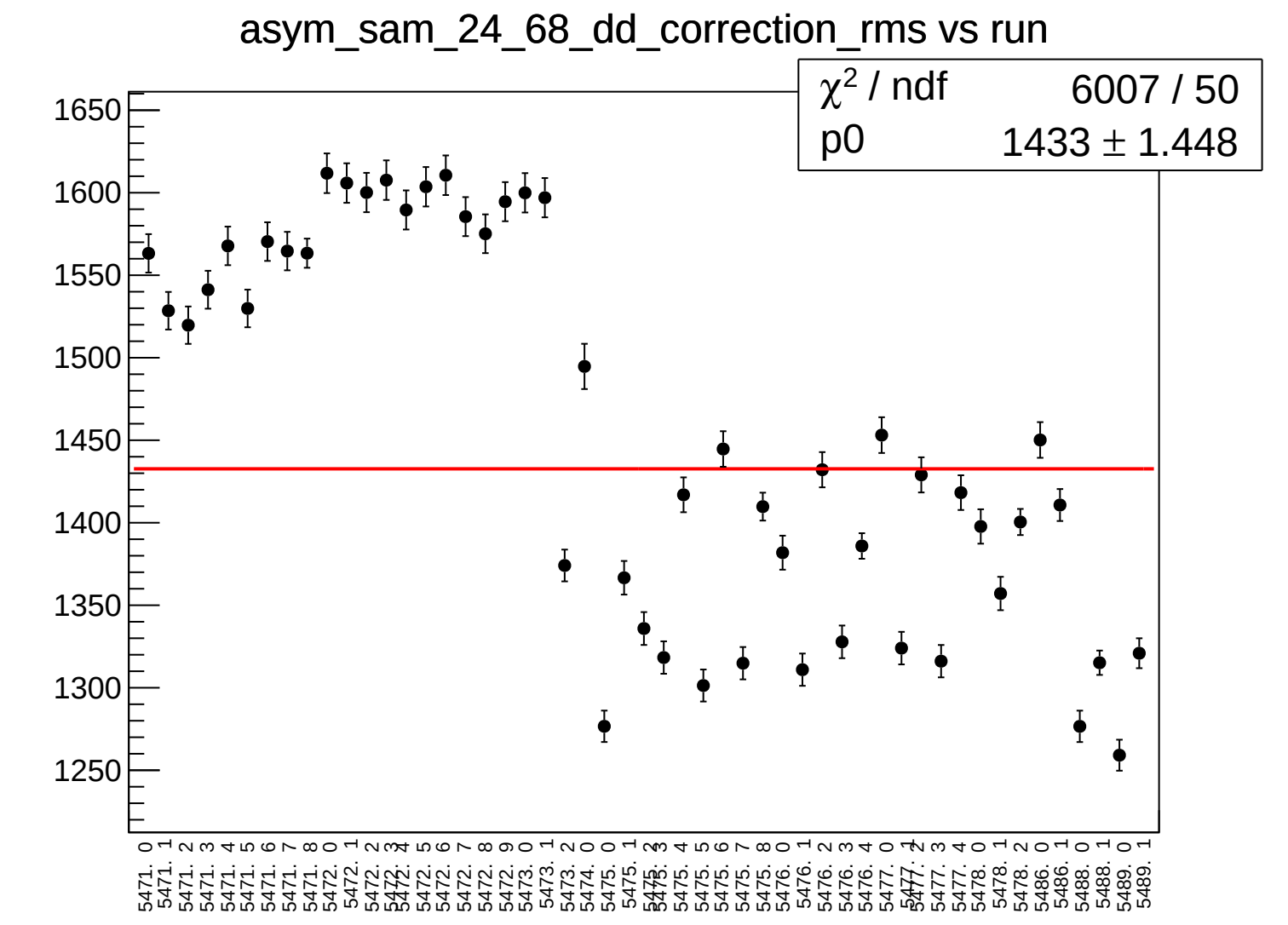

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 44.4 / 50
p0 −389.1± 178.4
pull
Entries 51
Mean −24.76
Std Dev 42.66

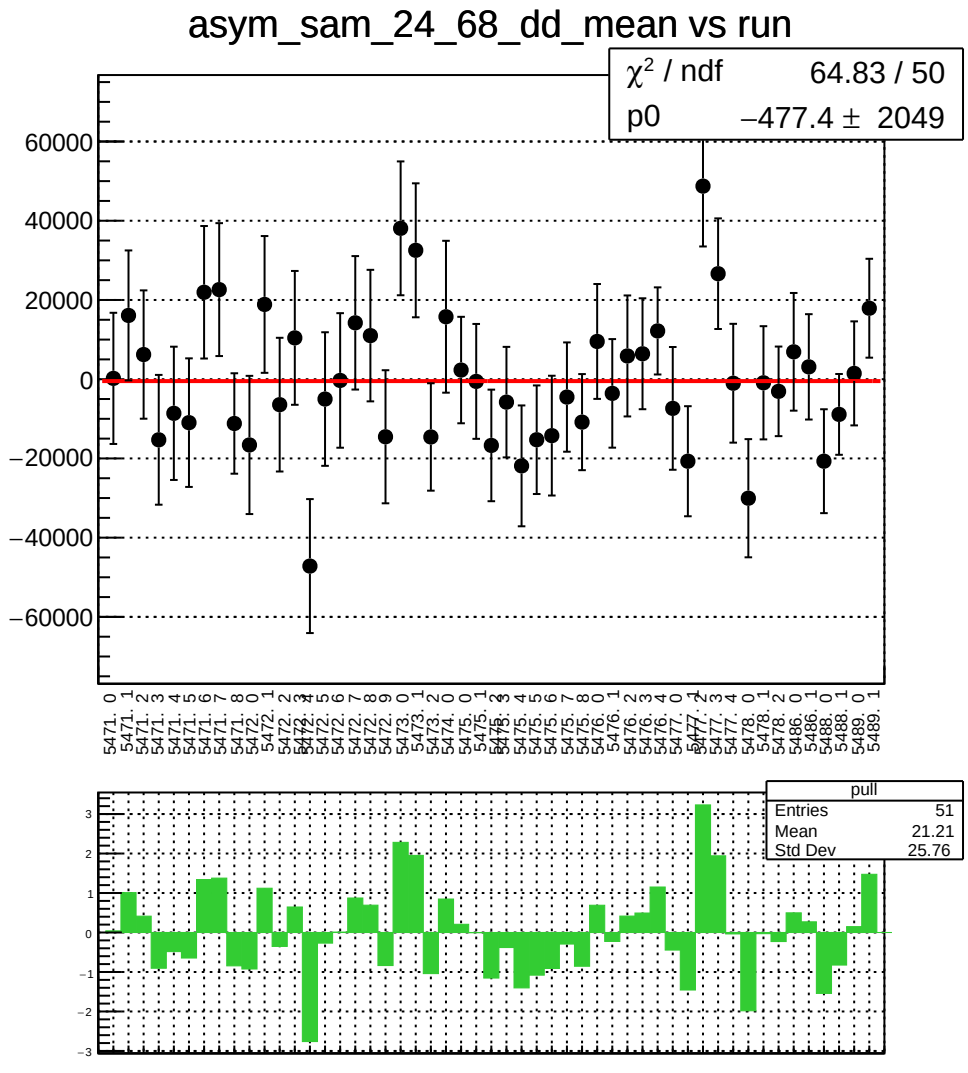

pull1D
Entries 51
Mean −0.03509
Std Dev 0.9324

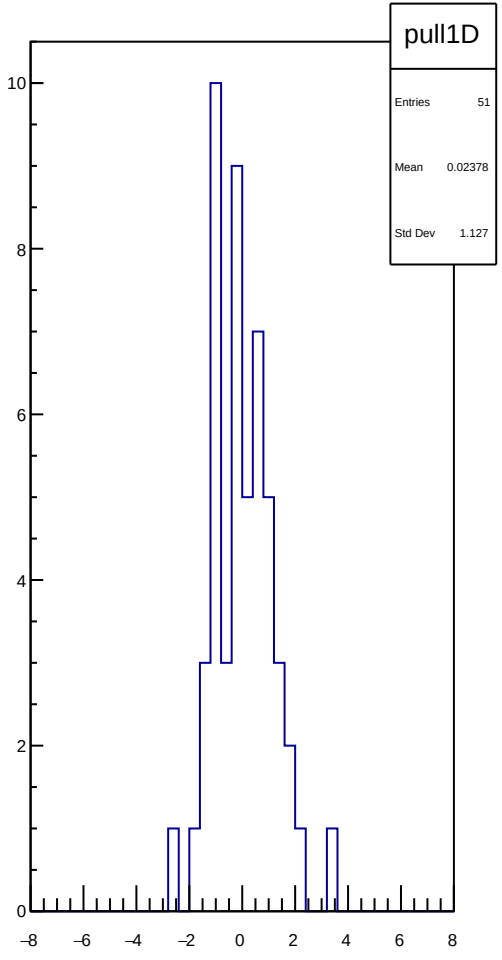

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.326e+04 / 50
p0 124.4 ± 0.1262
170
160
150
140
130
120
110
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

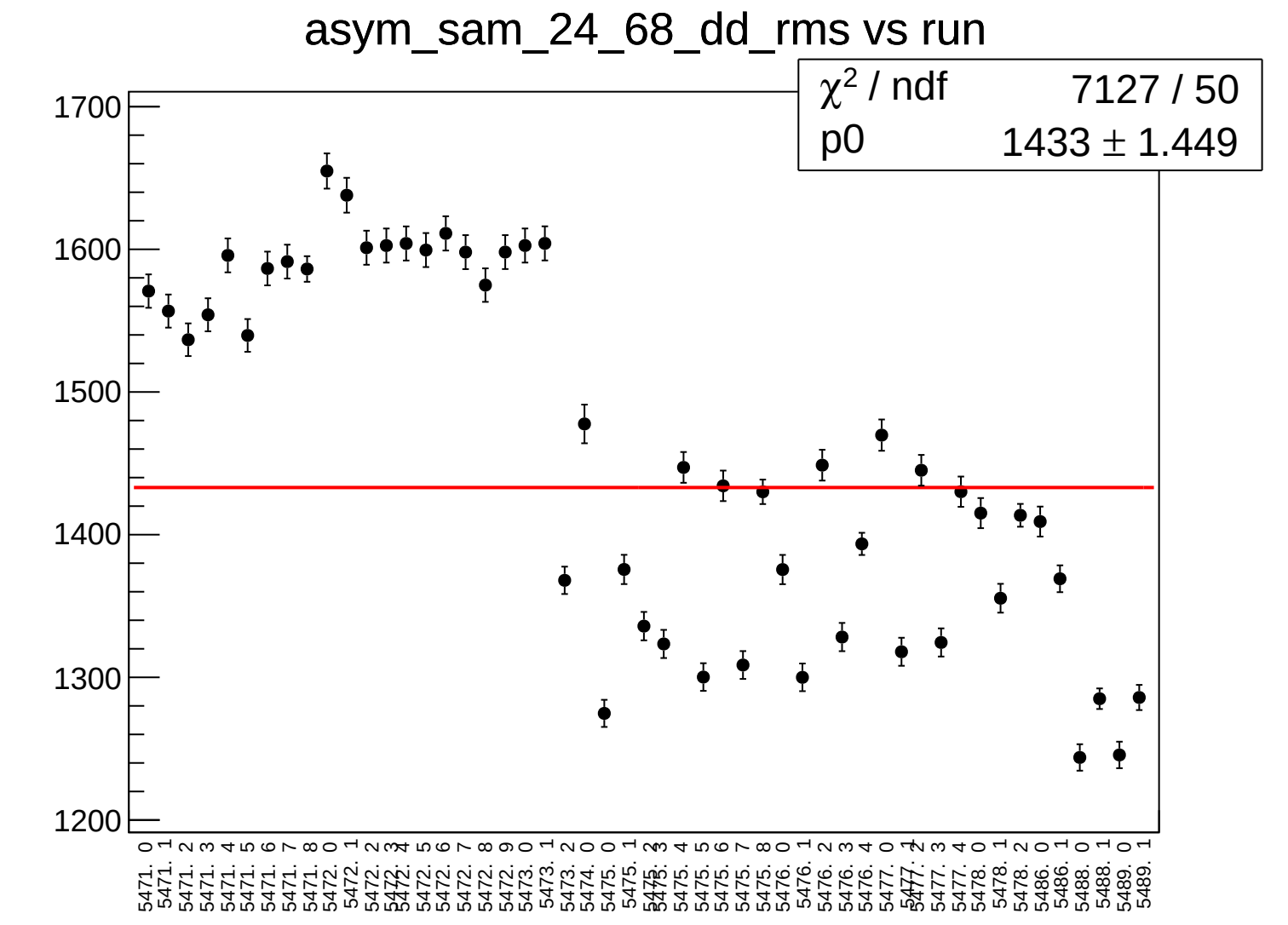

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 64.91 / 50
p0 37.51 ± 2048
pull
Entries 51
Mean 15.71
Std Dev 25.07

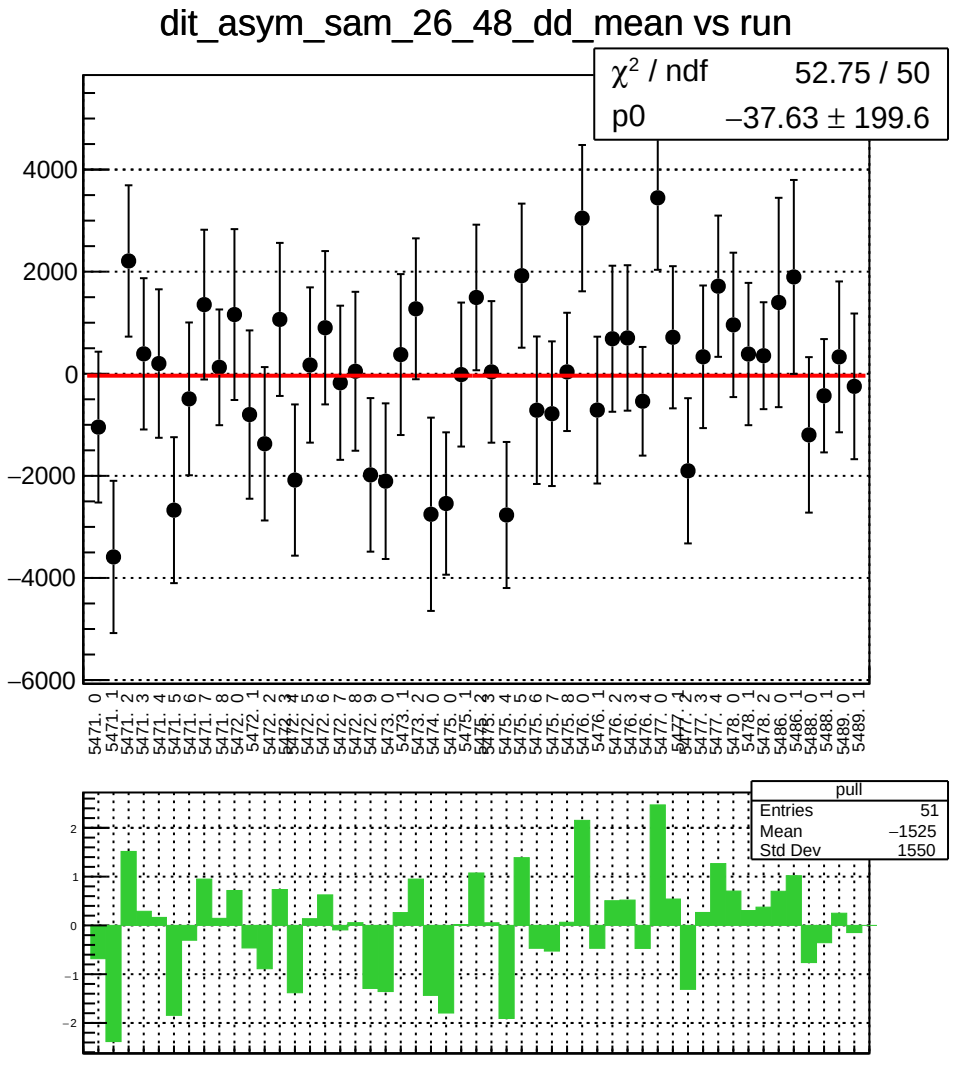

pull1D
Entries 51
Mean −0.02514
Std Dev 1.128

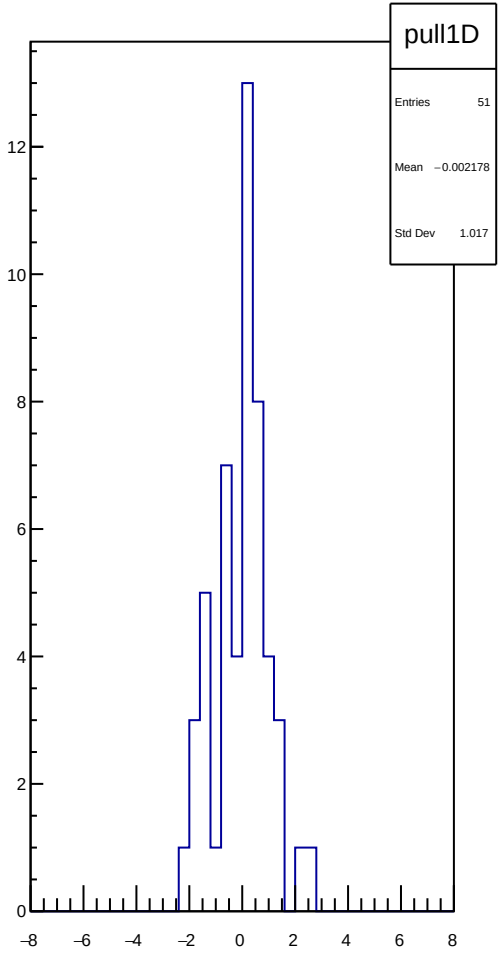

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 6007 / 50
p0 1433 ± 1.448
1650
1600
1550
1500
1450
1400
1350
1300
1250
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

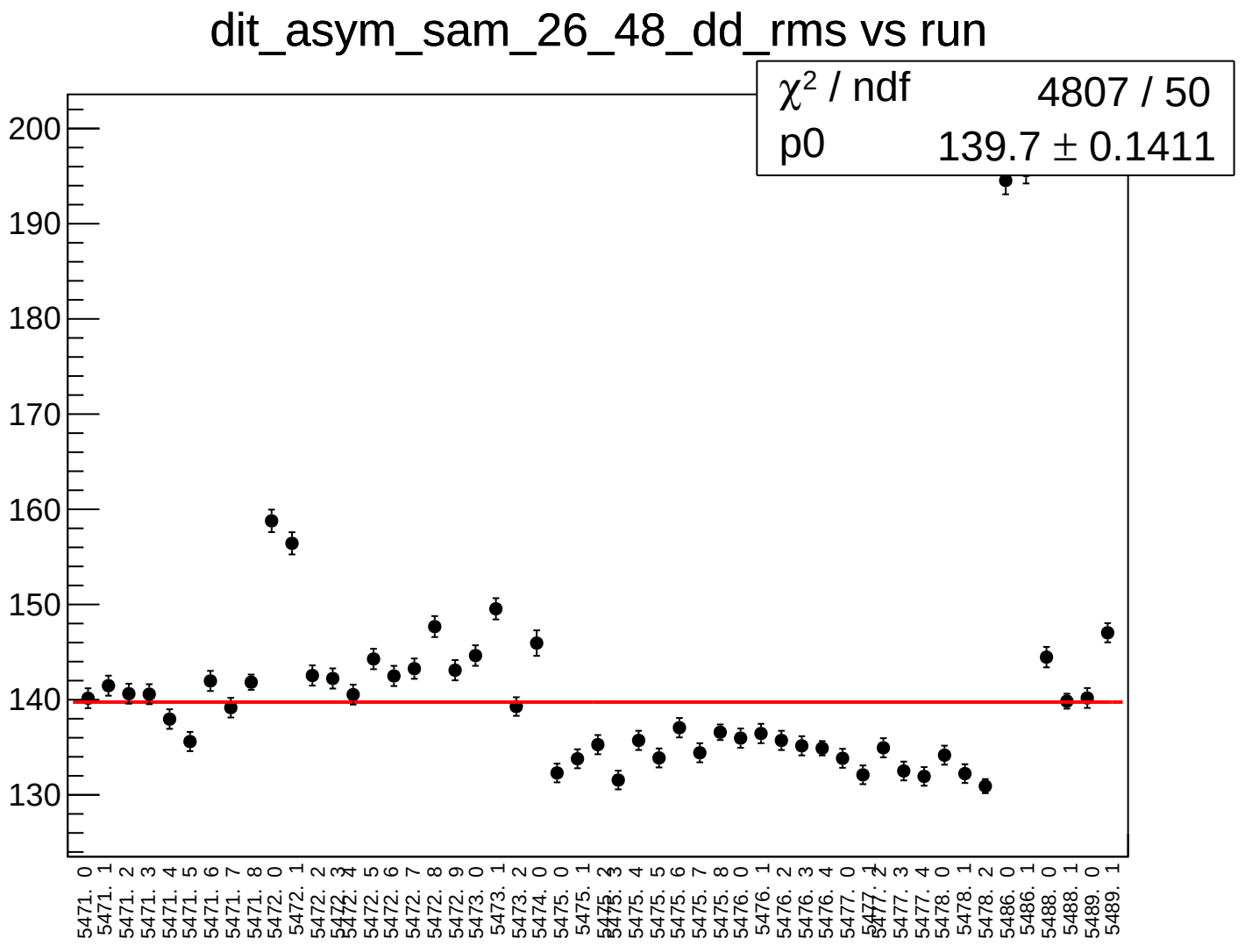

asym_sam_24_68_dd_mean vs run
χ² / ndf 64.83 / 50
p0 −477.4 ± 2049
pull
Entries 51
Mean 21.21
Std Dev 25.76

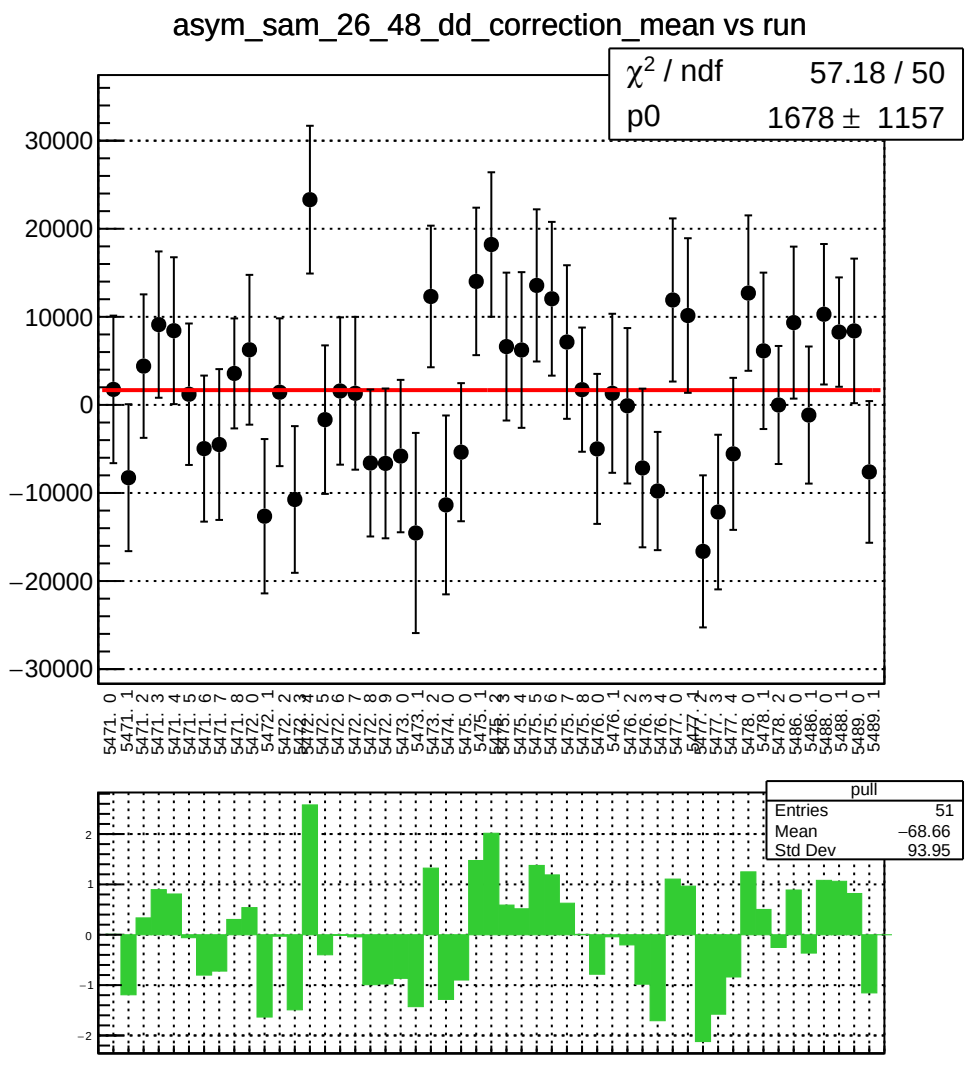

pull1D
Entries 51
Mean 0.02378
Std Dev 1.127

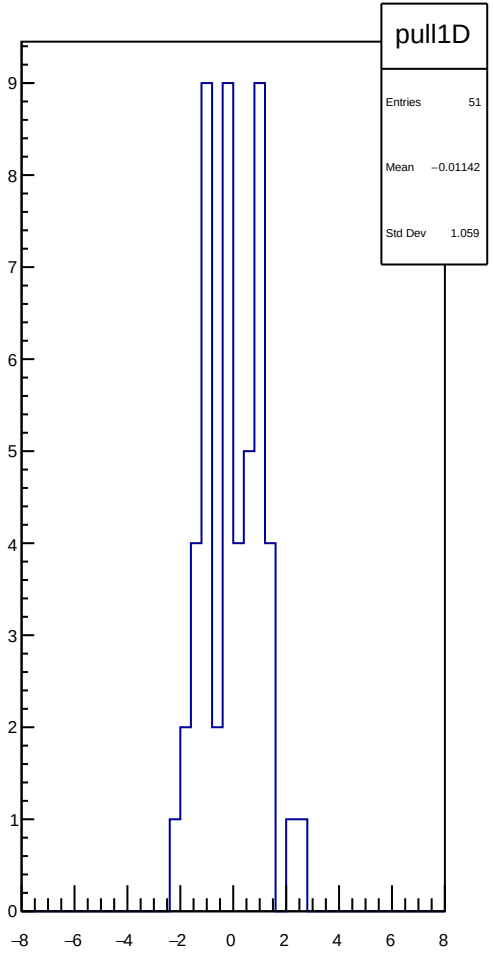

asym_sam_24_68_dd_rms vs run
χ² / ndf 7127 / 50
p0 1433 ± 1.449
1700
1600
1500
1400
1300
1200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

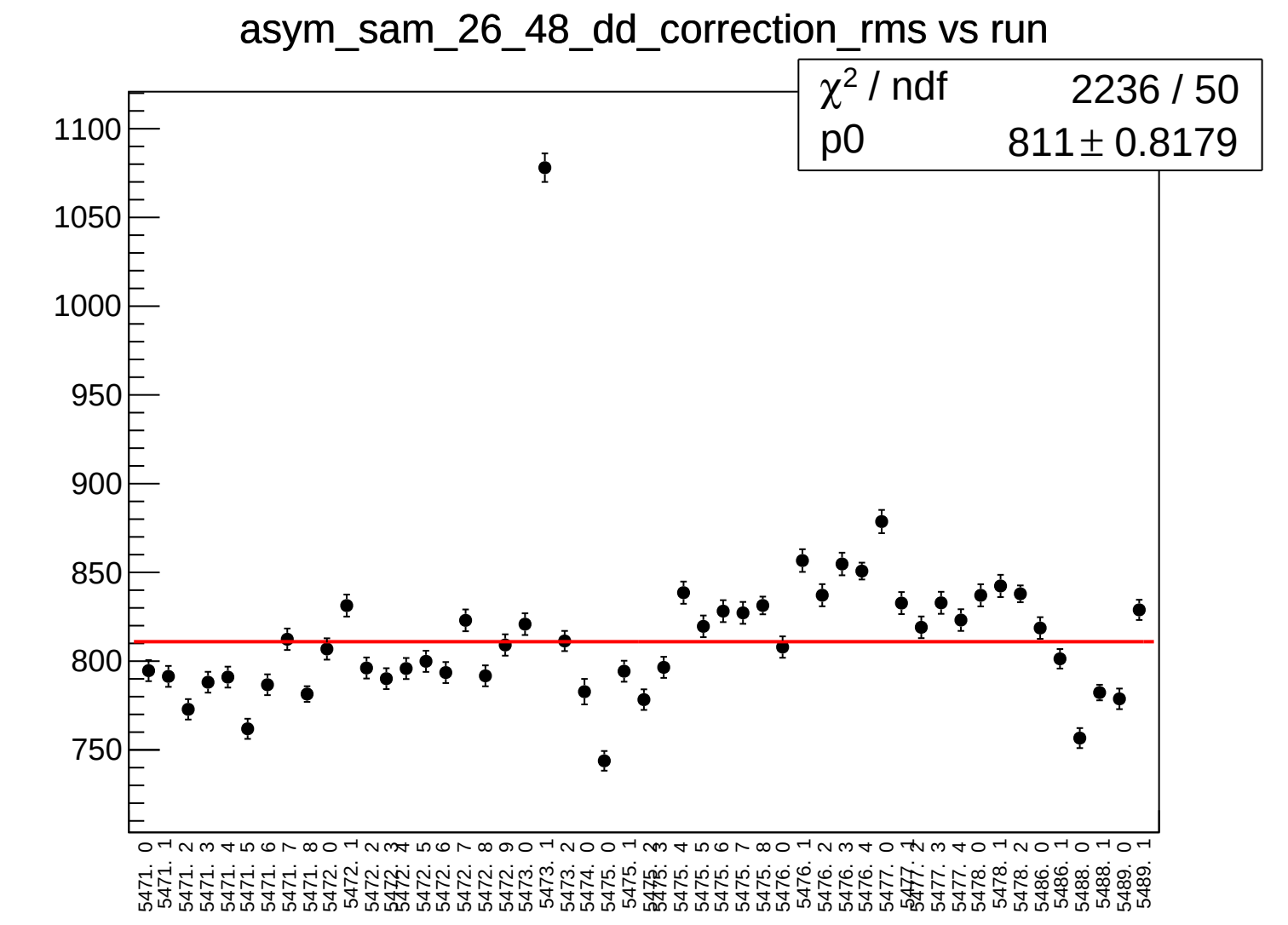

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 52.75 / 50
p0 −37.63 ± 199.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean −1525
Std Dev 1550
2
1
0
−1
−2

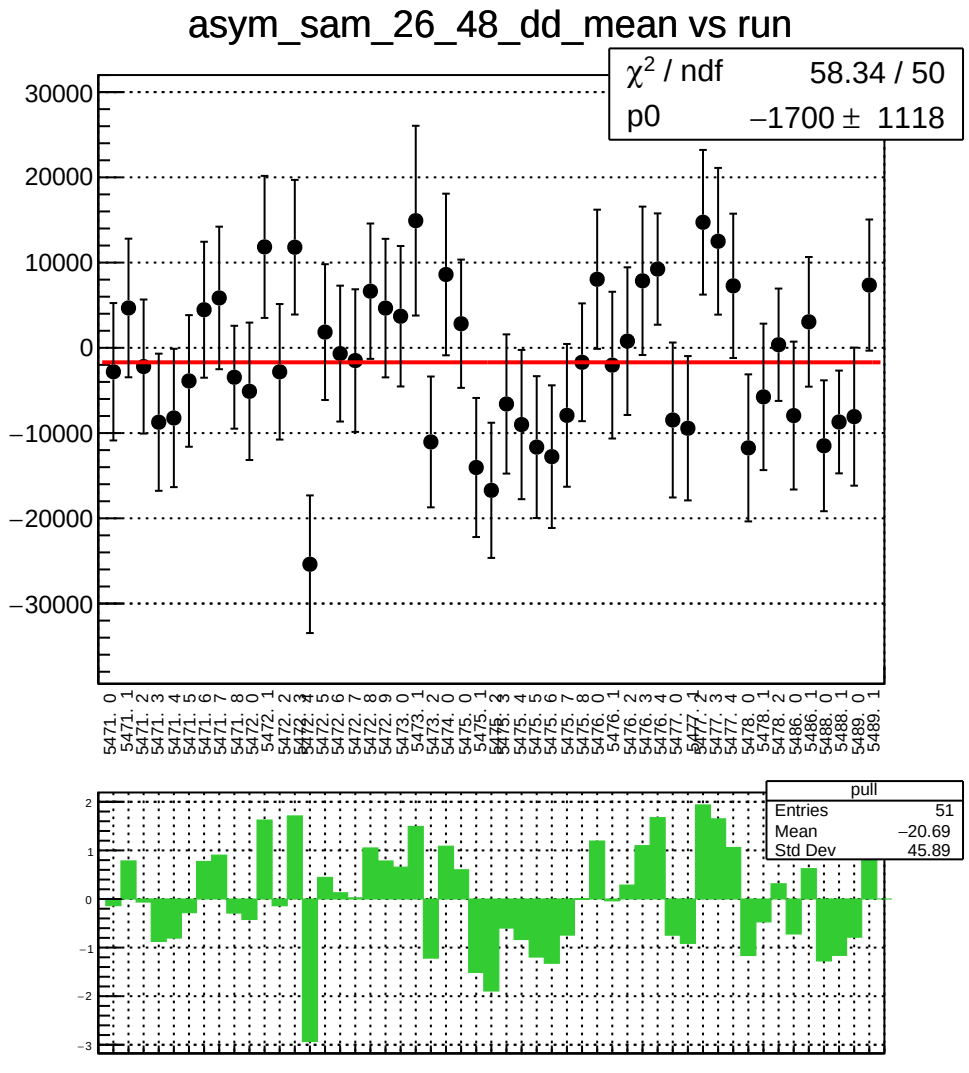

pull1D
Entries 51
Mean −0.002178
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

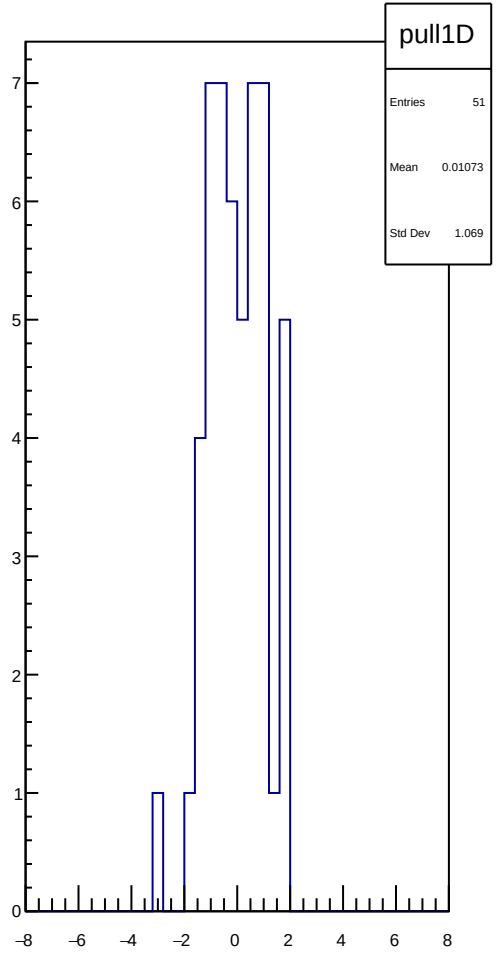

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 4807 / 50
p0 139.7 ± 0.1411
200
190
180
170
160
150
140
130
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

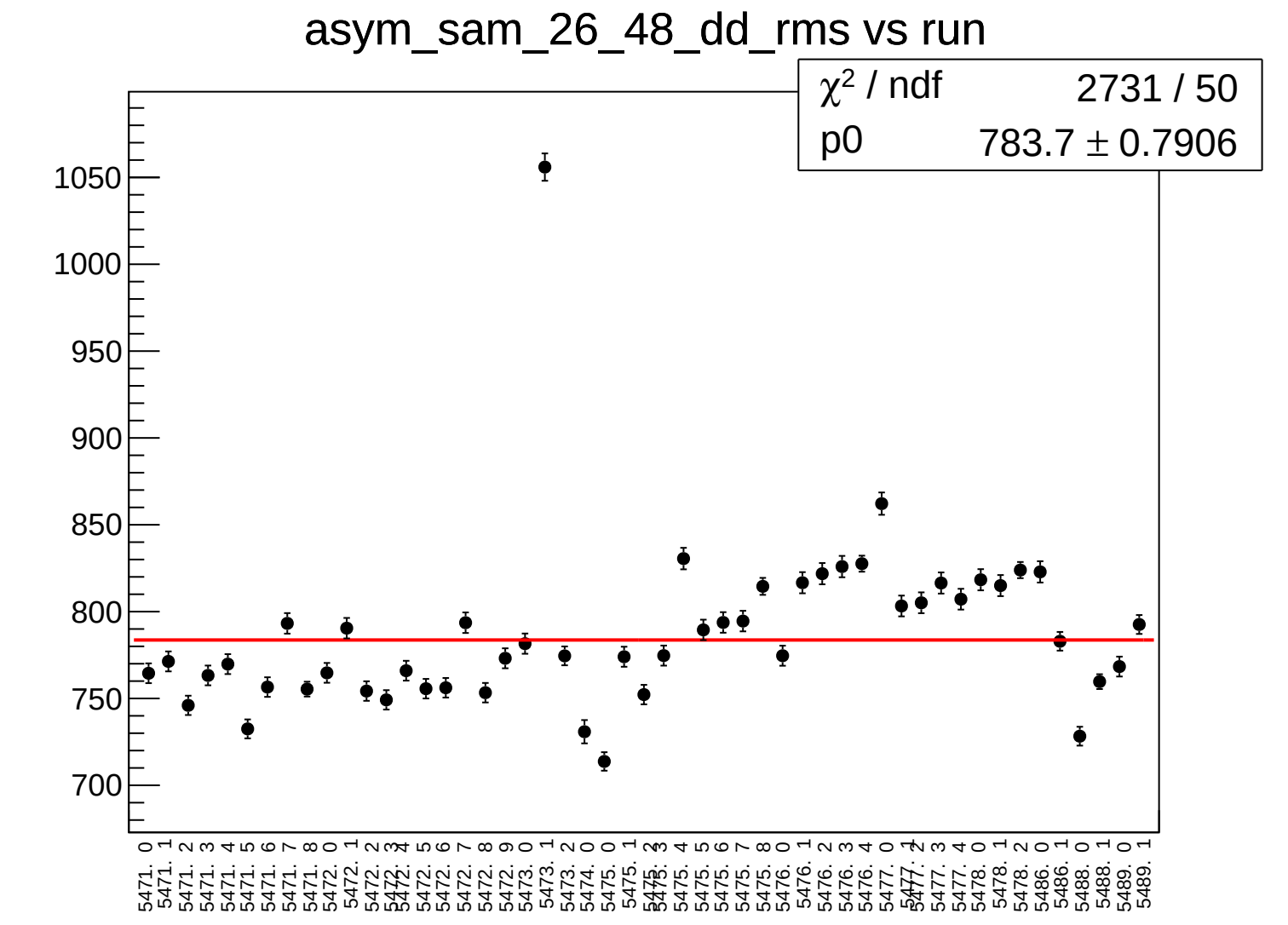

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 57.18 / 50
p0 1678 ± 1157
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −68.66
Std Dev 93.95
2
1
0
−1
−2

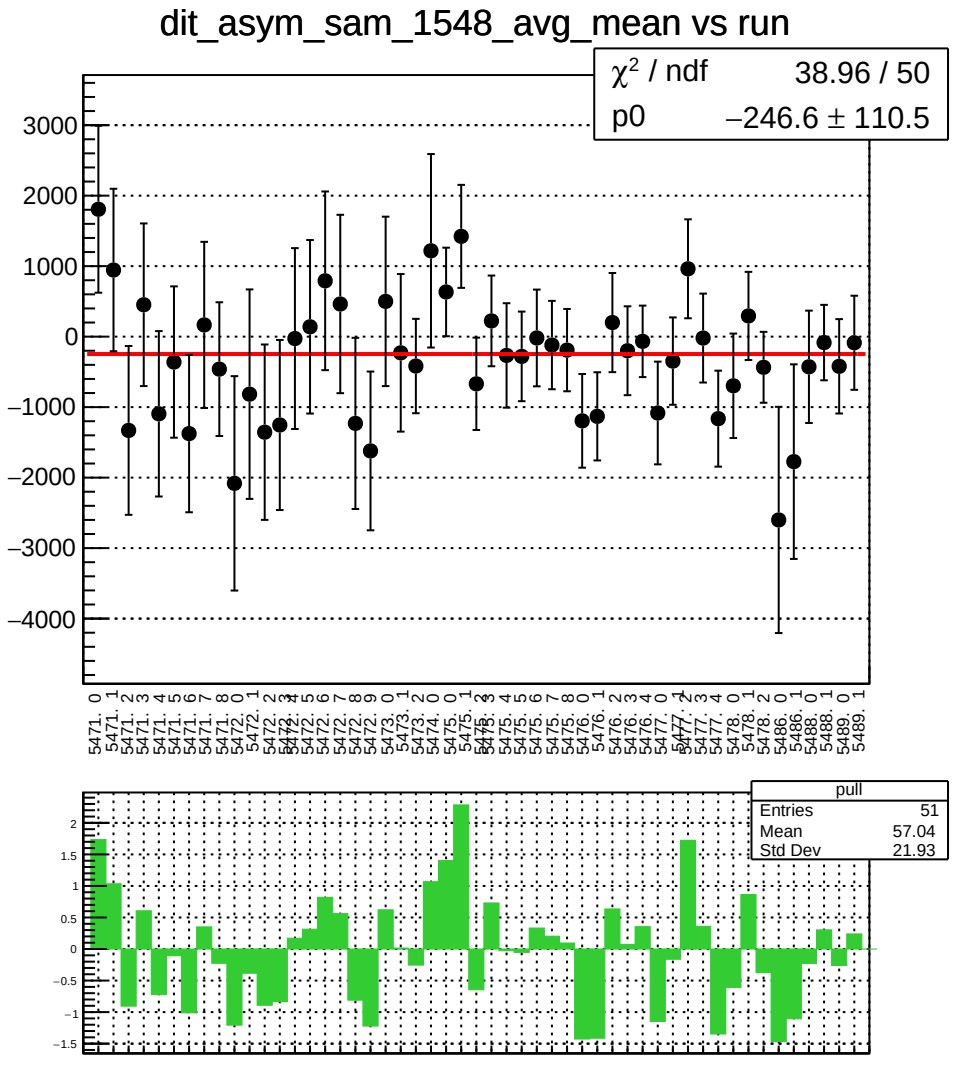

pull1D
Entries 51
Mean −0.01142
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

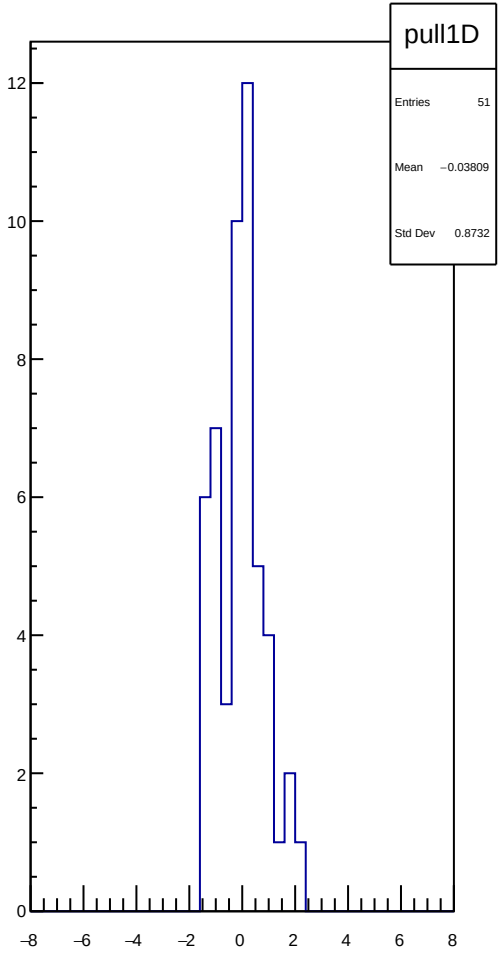

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 2236 / 50
p0 811 ± 0.8179
1100
1050
1000
950
900
850
800
750
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

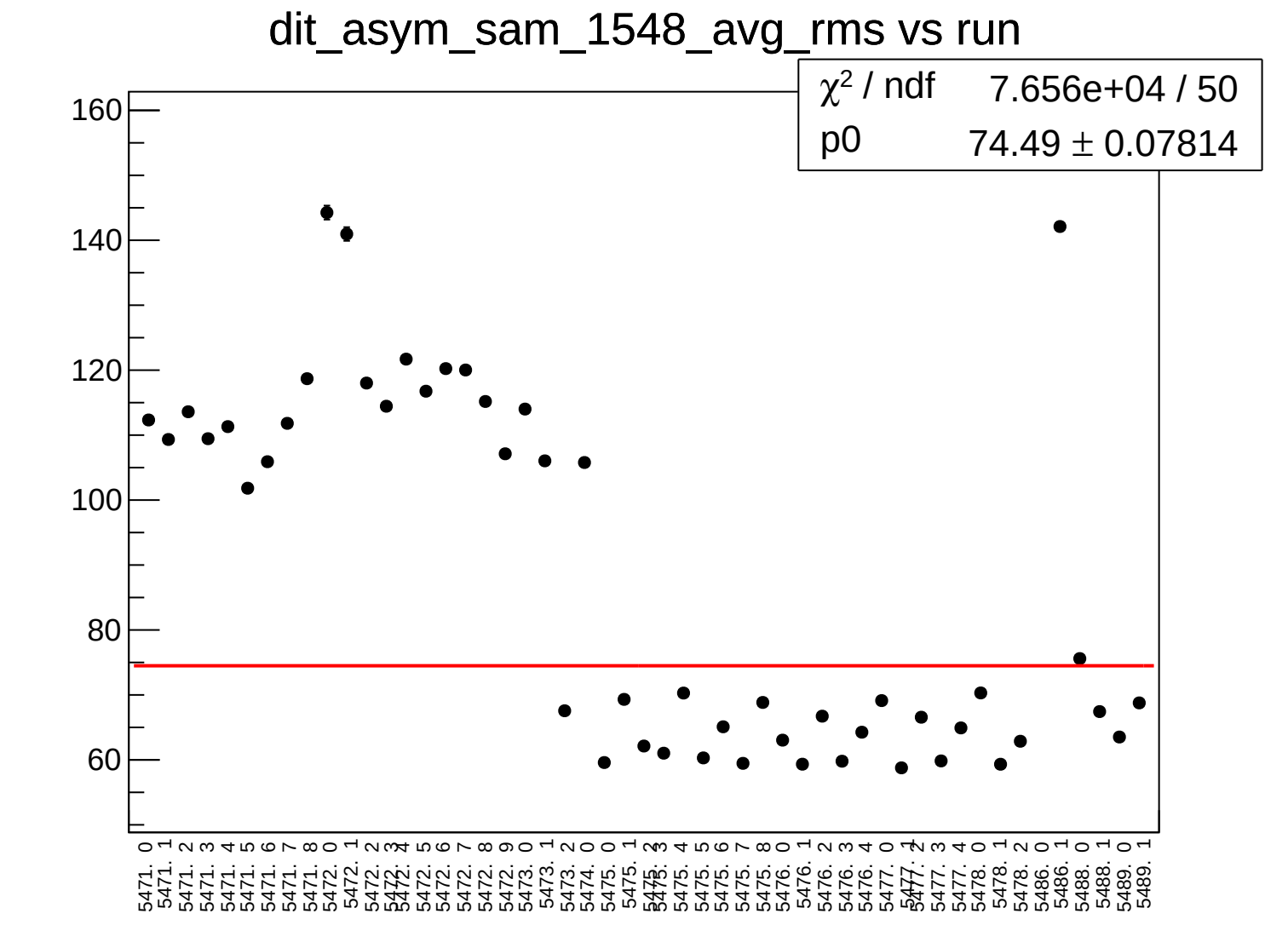

asym_sam_26_48_dd_mean vs run
χ^2 / ndf 58.34 / 50
p0 −1700 ± 1118
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −20.69
Std Dev 45.89
2
1
0
−1
−2
−3

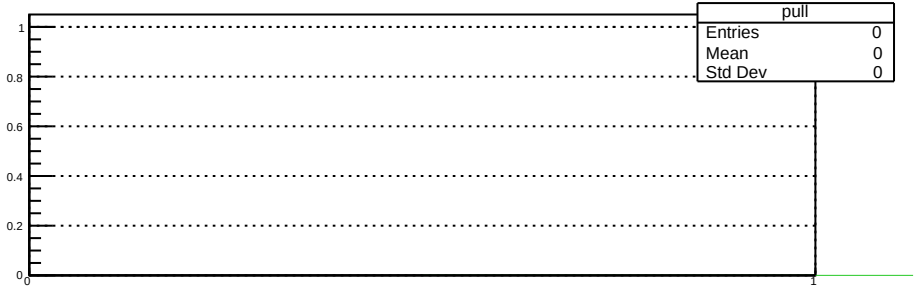

pull1D
Entries 51
Mean 0.01073
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

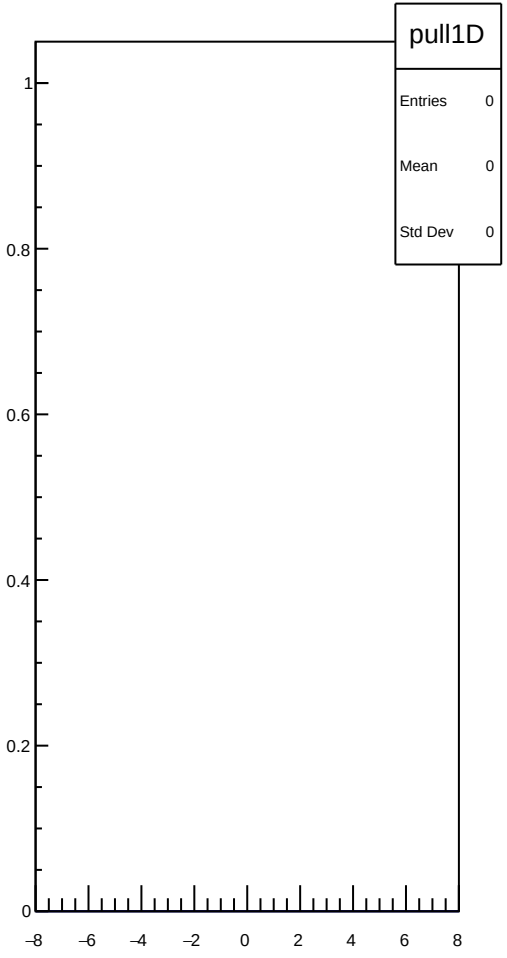

asym_sam_26_48_dd_rms vs run
χ² / ndf 2731 / 50
p0 783.7 ± 0.7906
1050
1000
950
900
850
800
750
700
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

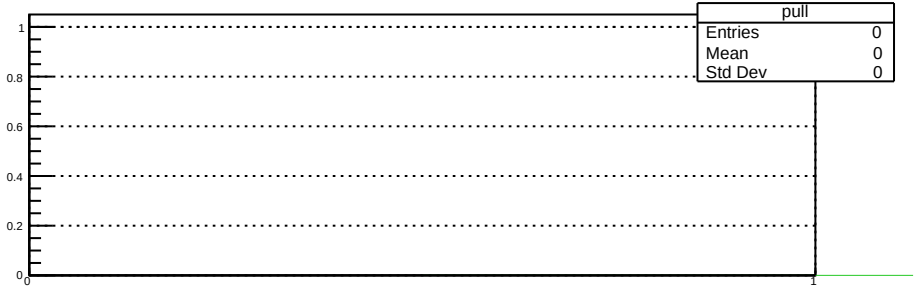

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 38.96 / 50
p0 −246.6 ± 110.5
pull
Entries 51
Mean 57.04
Std Dev 21.93

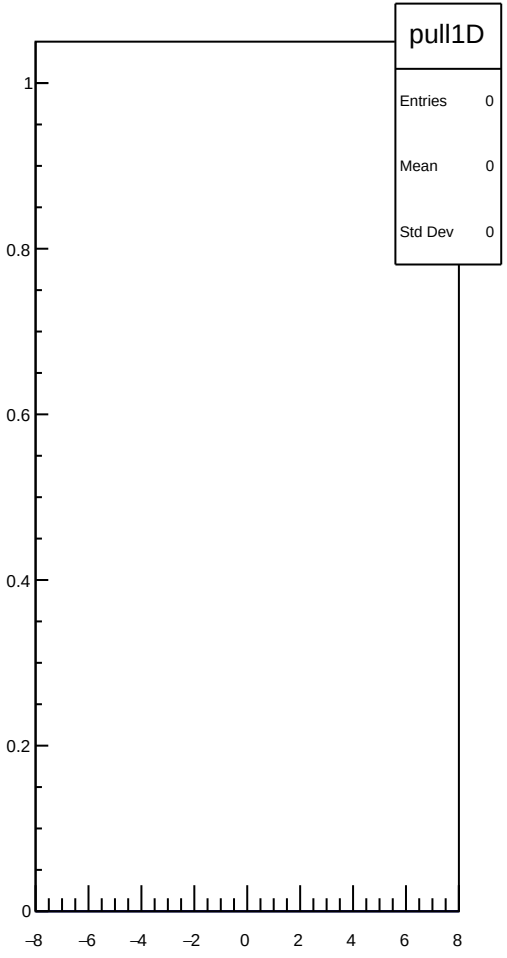

pull1D
Entries 51
Mean −0.03809
Std Dev 0.8732

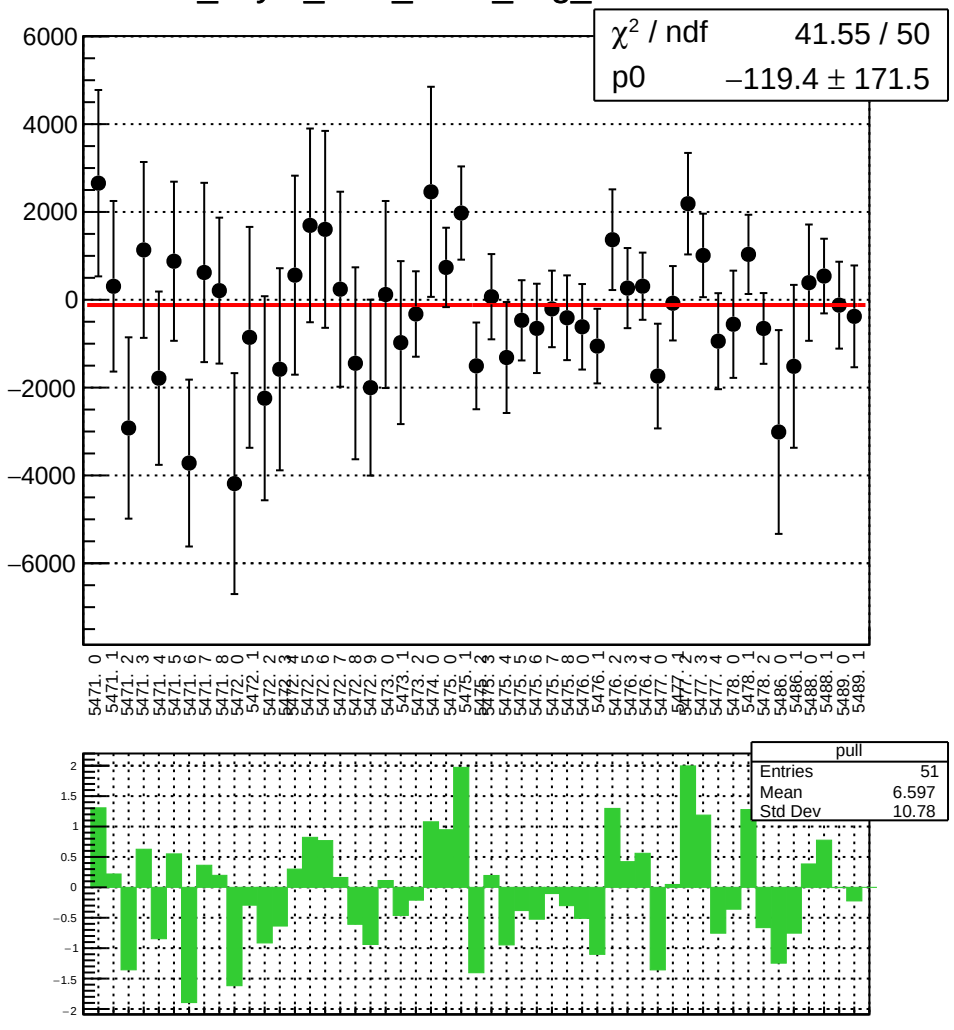

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7.656e+04 / 50
p0 74.49 ± 0.07814
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

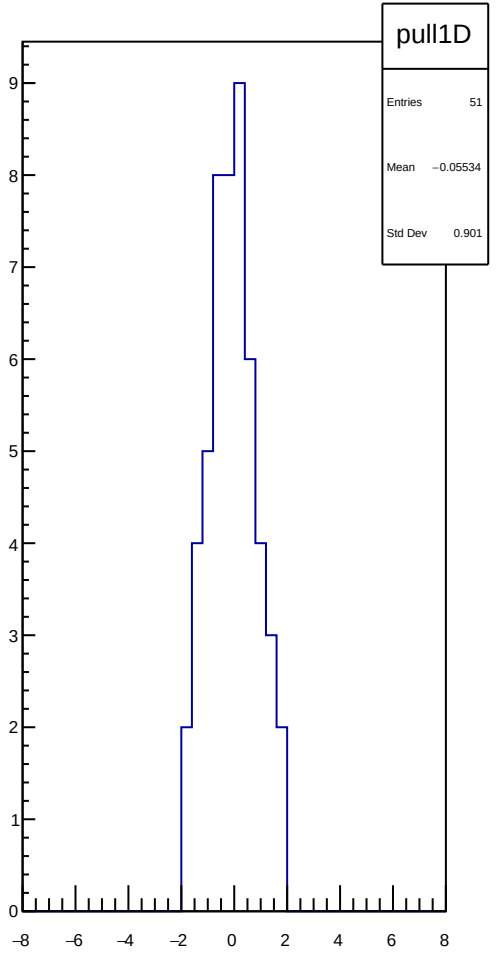

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

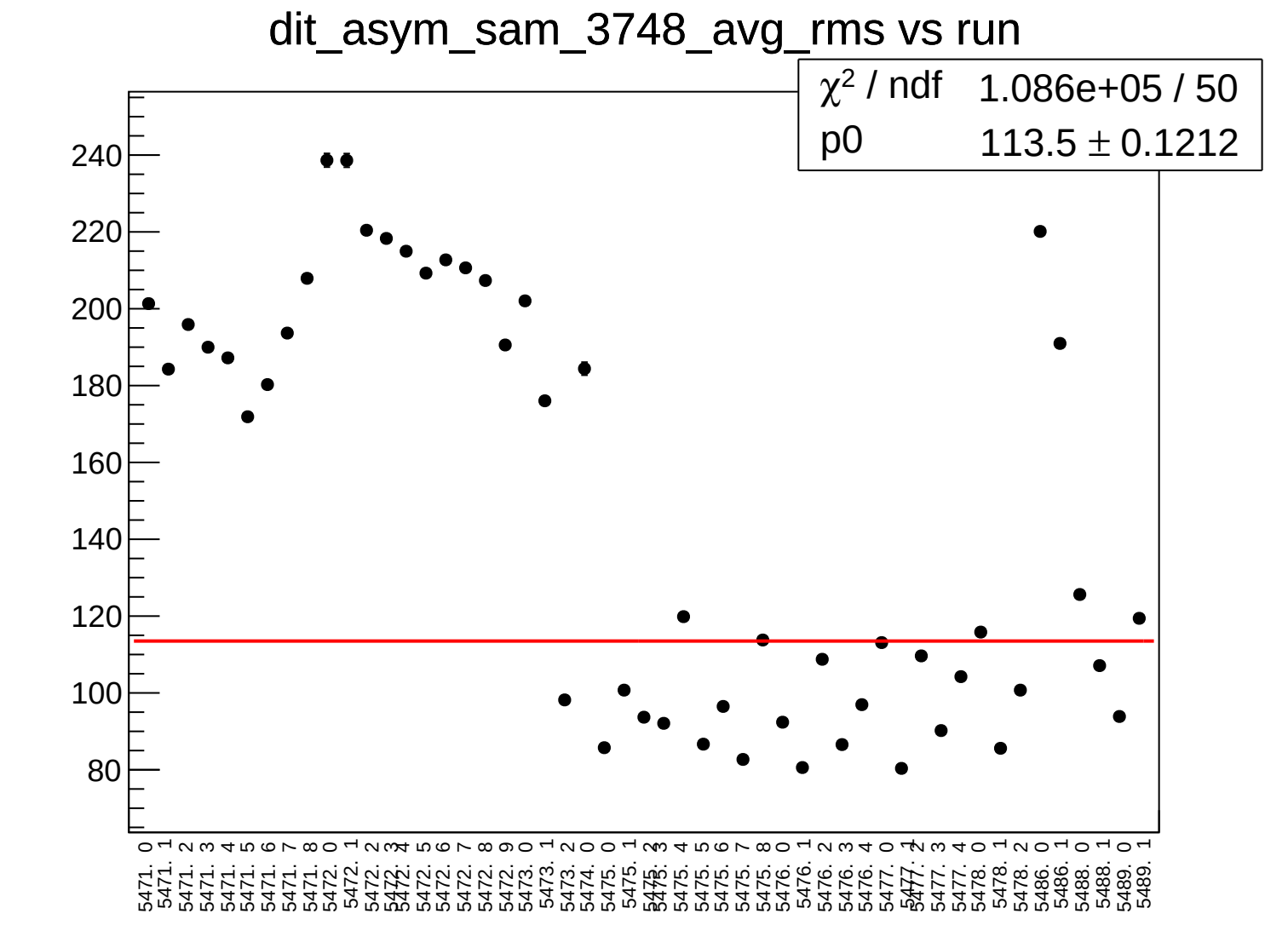

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

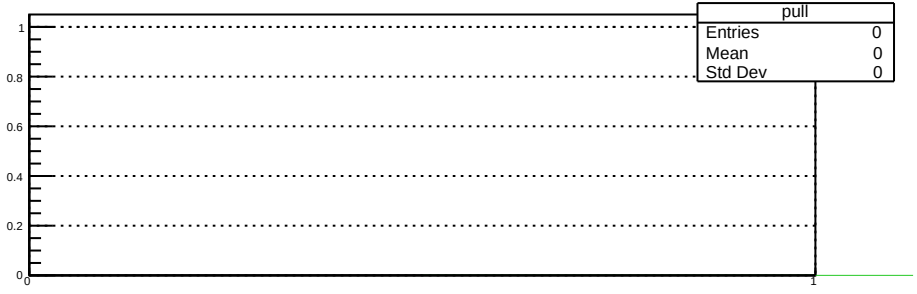

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

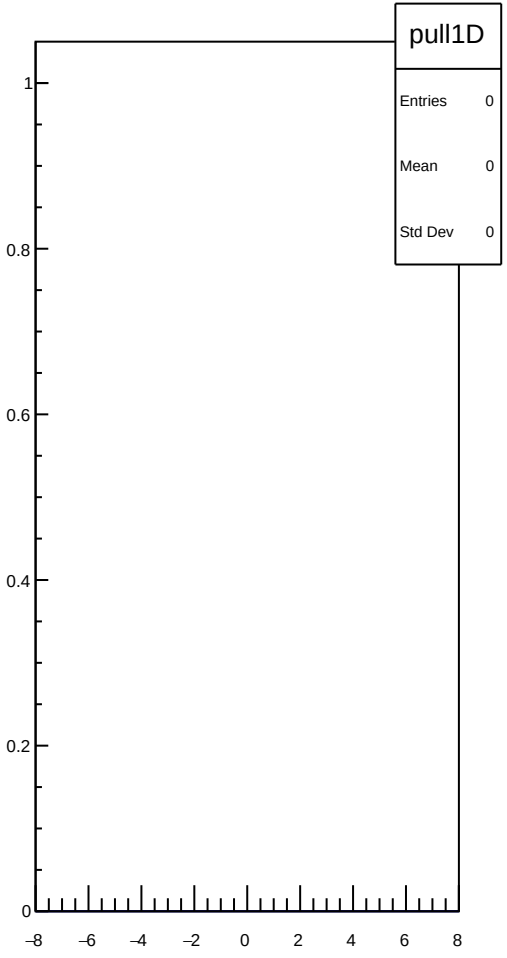

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

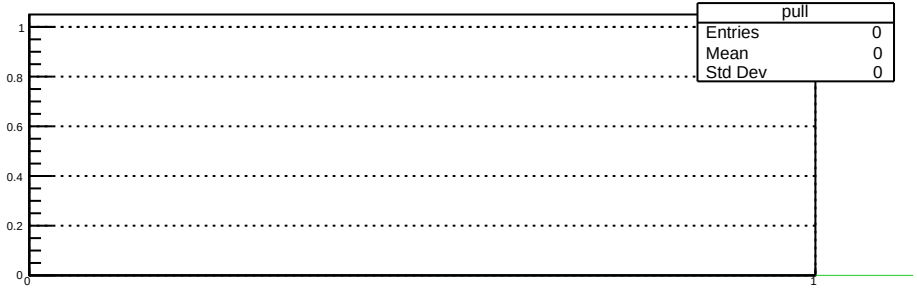

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 41.55 / 50
p0 −119.4 ± 171.5
pull
Entries 51
Mean 6.597
Std Dev 10.78

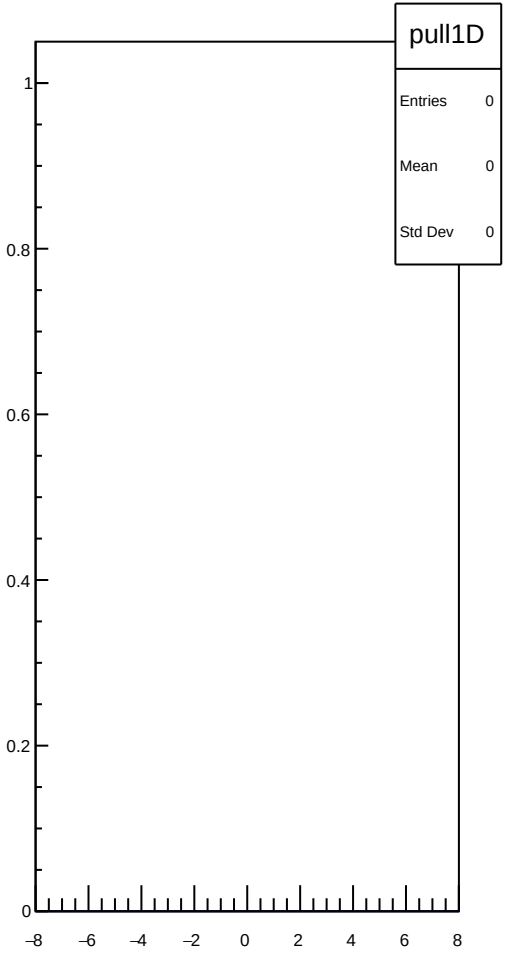

pull1D
Entries 51
Mean −0.05534
Std Dev 0.901

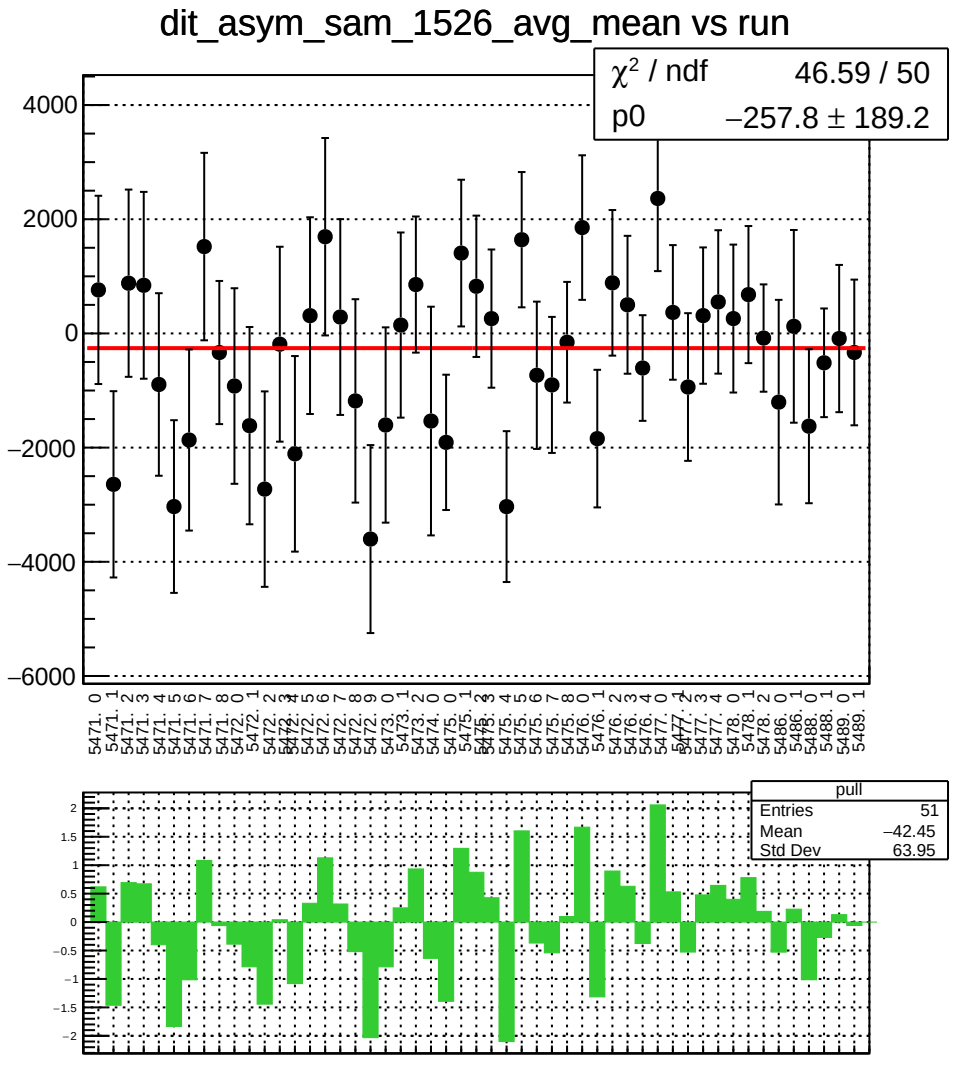

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.086e+05 / 50
p0 113.5 ± 0.1212
240
220
200
180
160
140
120
100
80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

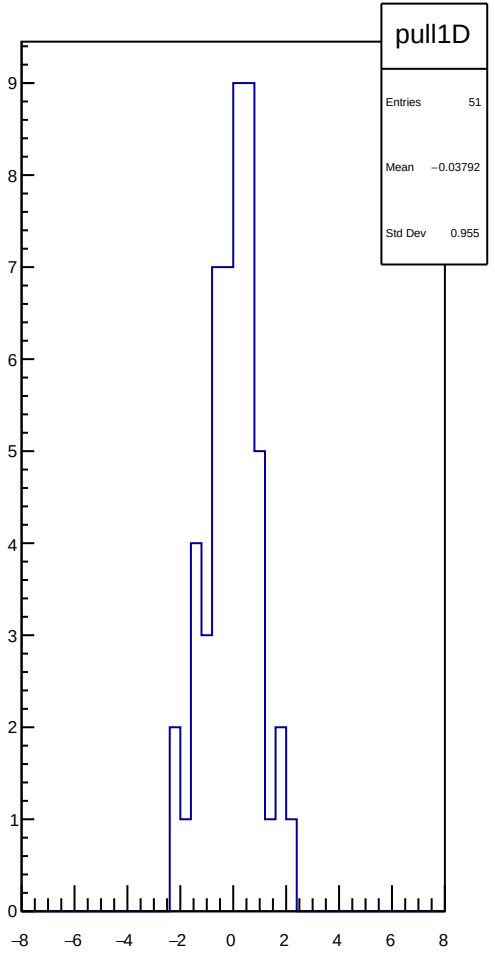

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

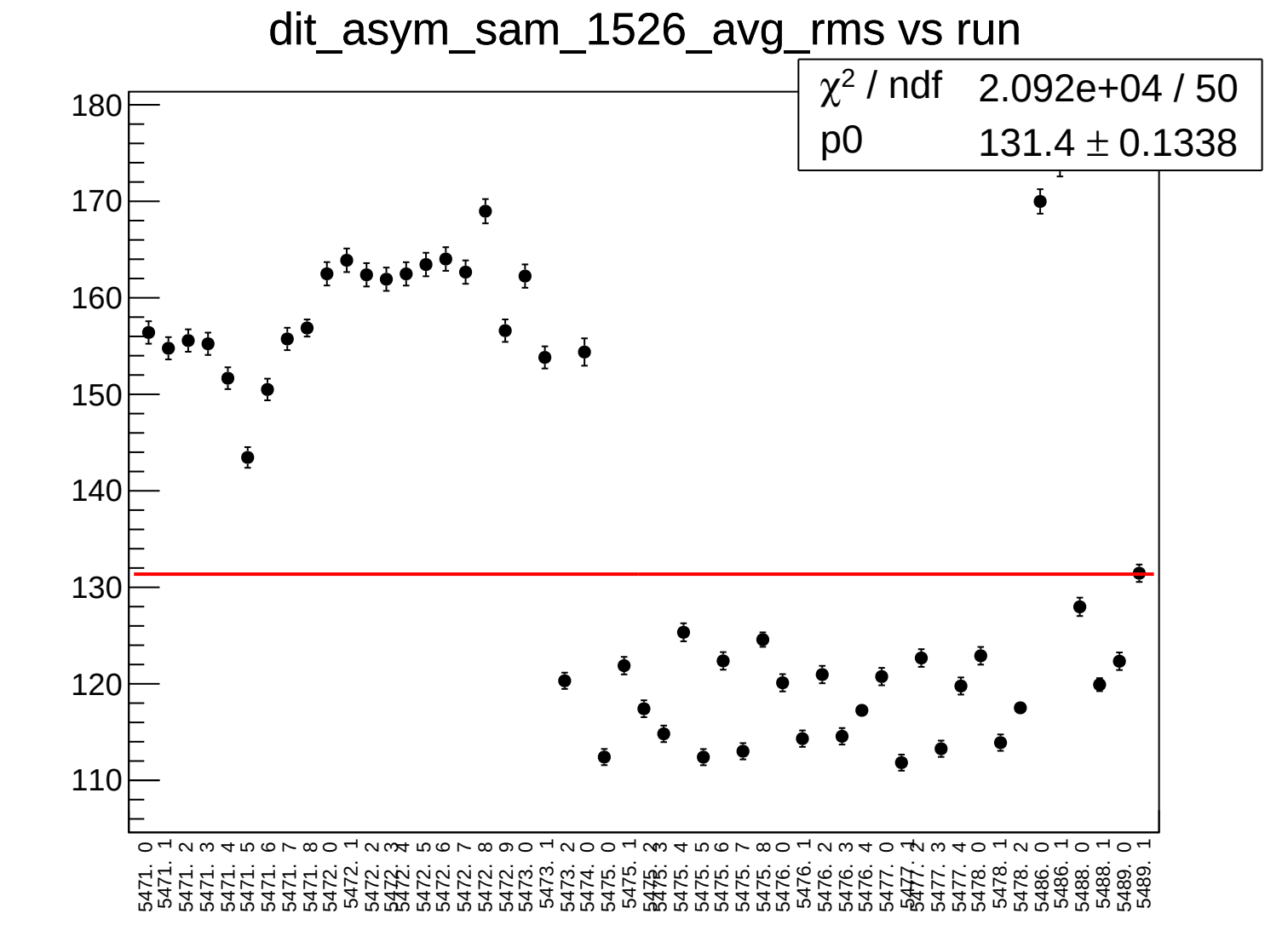

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

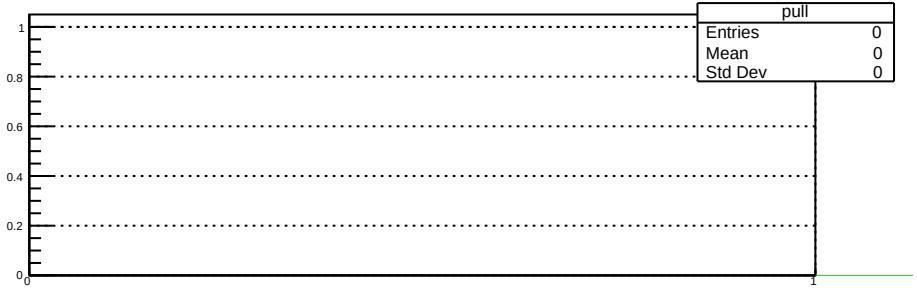

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

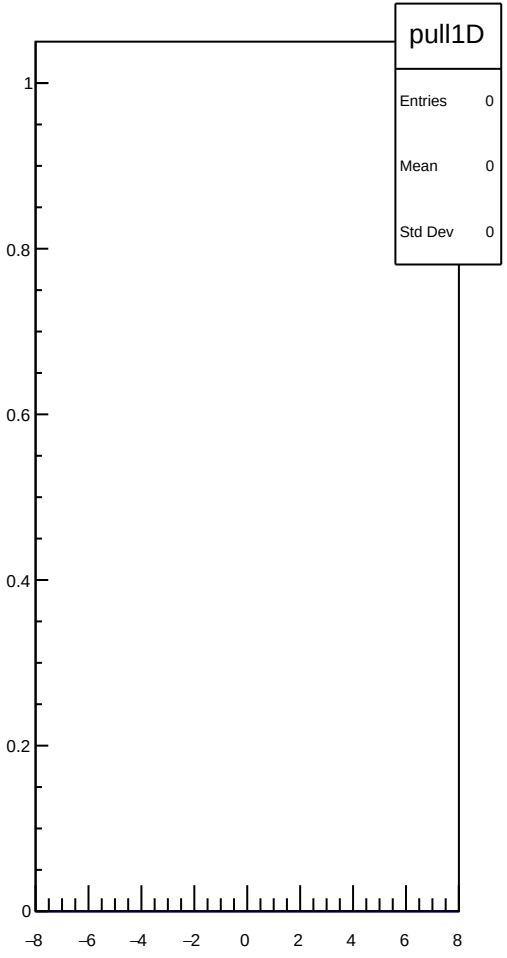

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

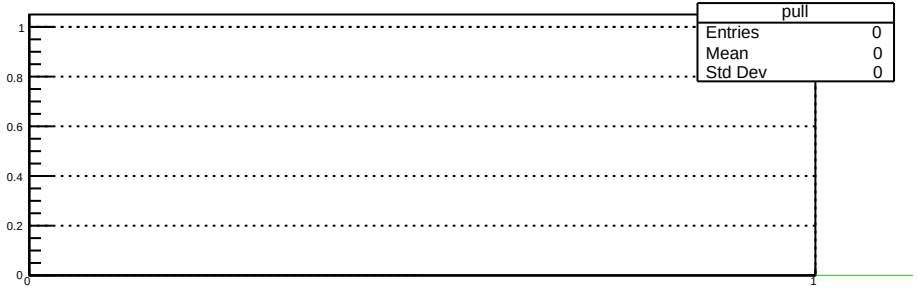

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 46.59 / 50
p0 −257.8 ± 189.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean −42.45
Std Dev 63.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

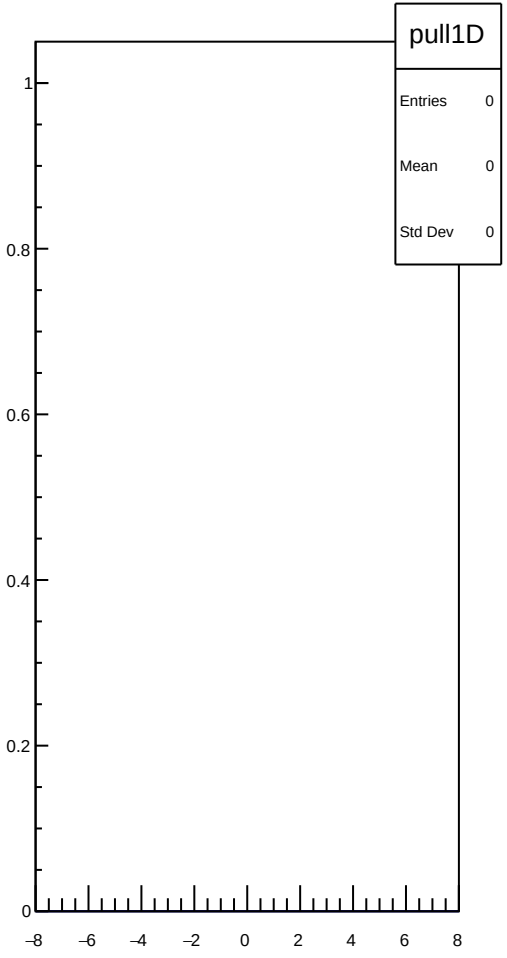

pull1D
Entries 51
Mean −0.03792
Std Dev 0.955
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

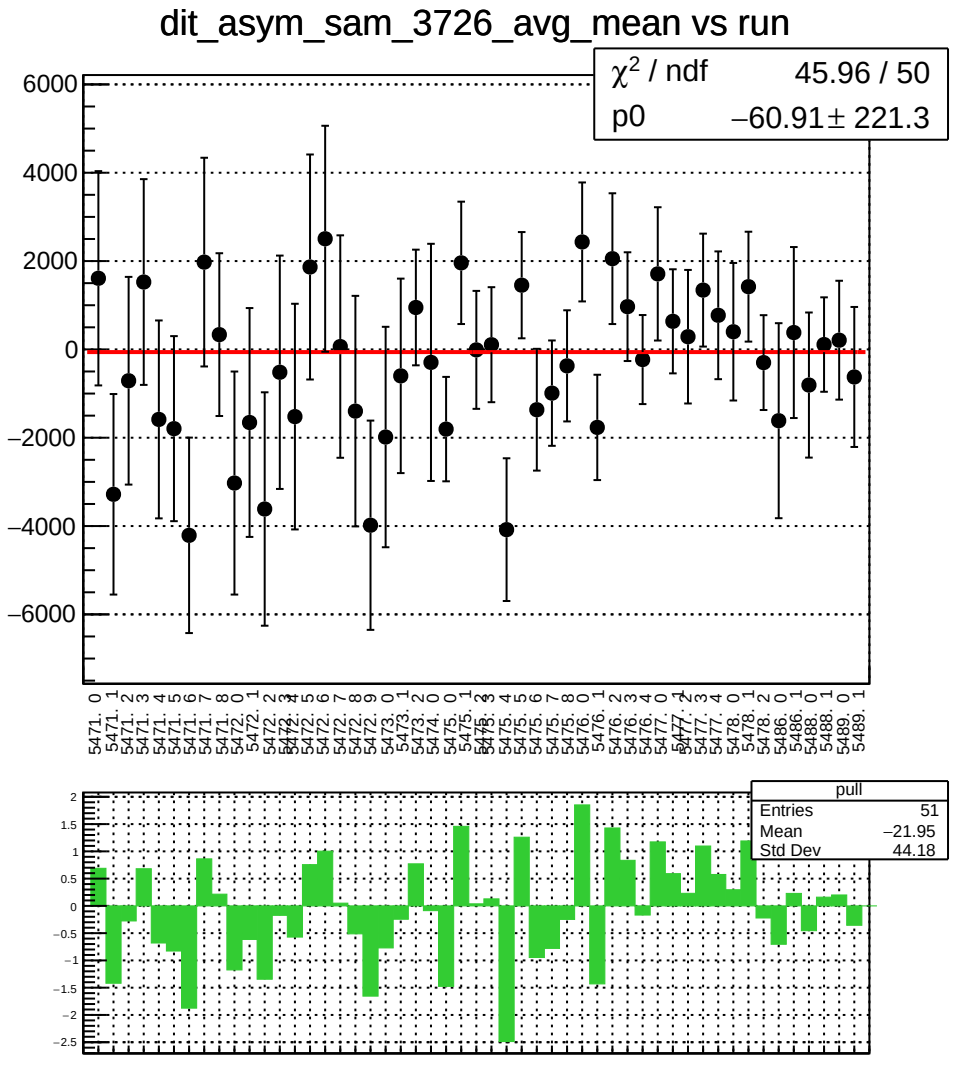

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.092e+04 / 50
p0 131.4 ± 0.1338
180
170
160
150
140
130
120
110
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

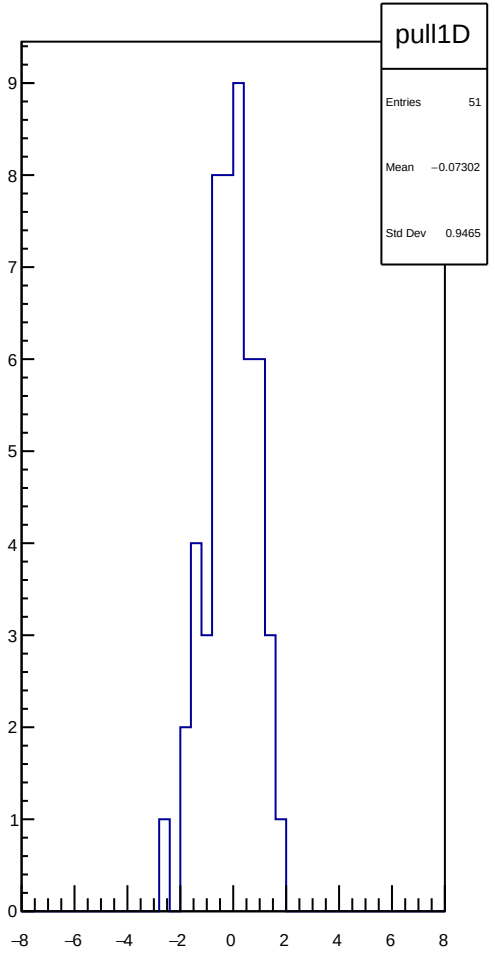

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

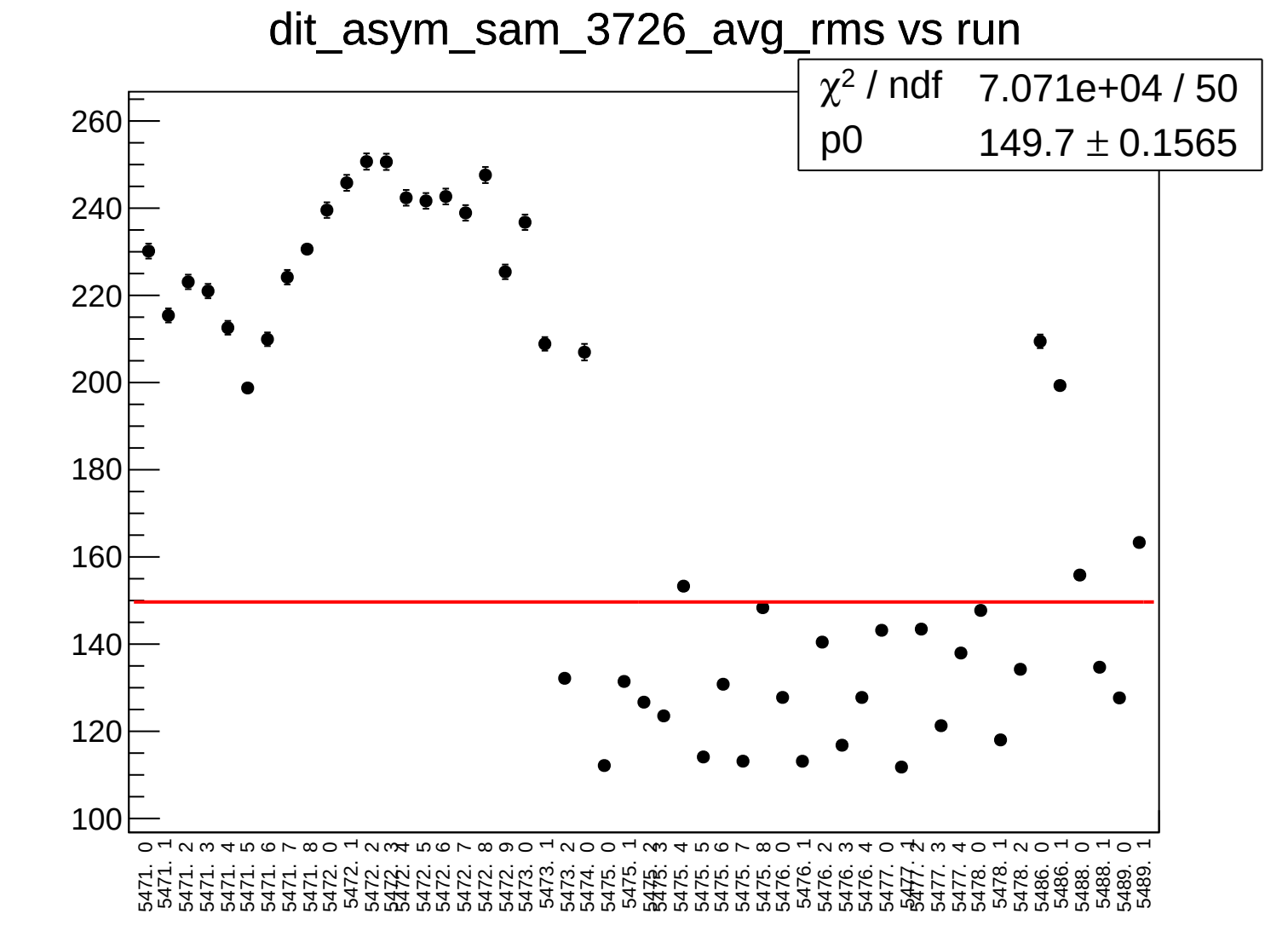

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

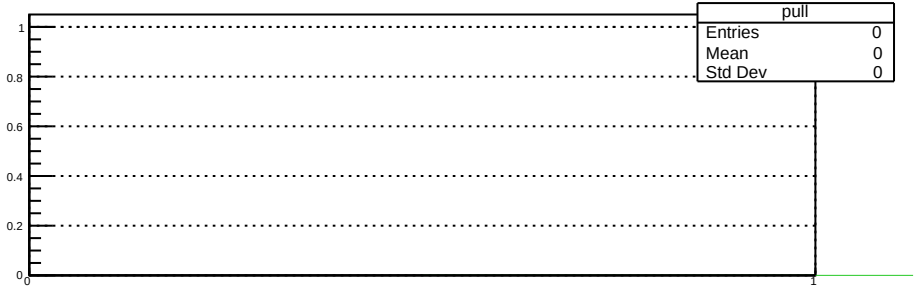

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

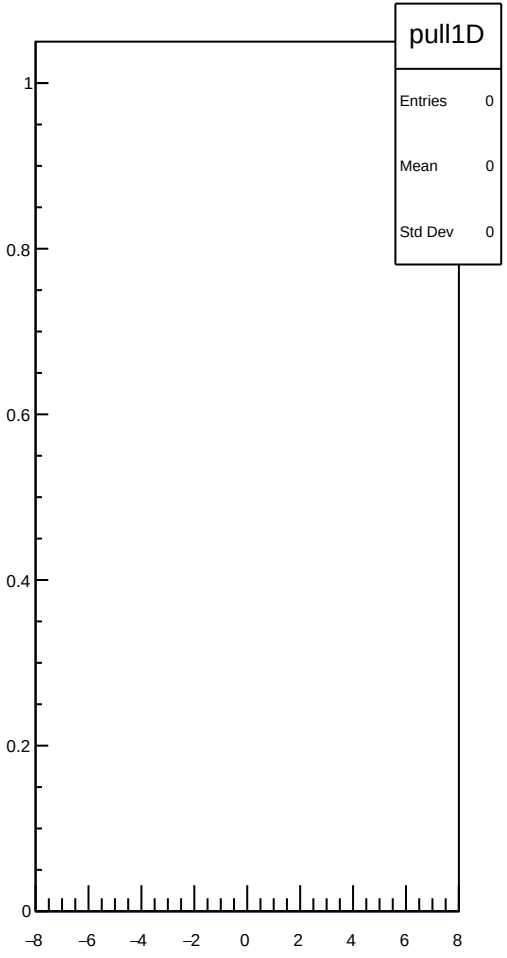

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

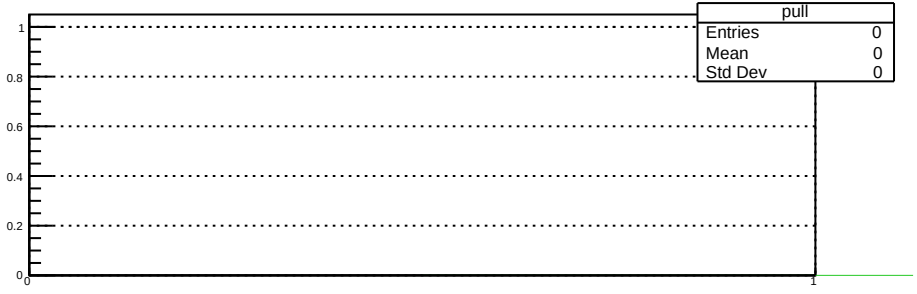

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 45.96 / 50
p0 −60.91± 221.3
pull
Entries 51
Mean −21.95
Std Dev 44.18

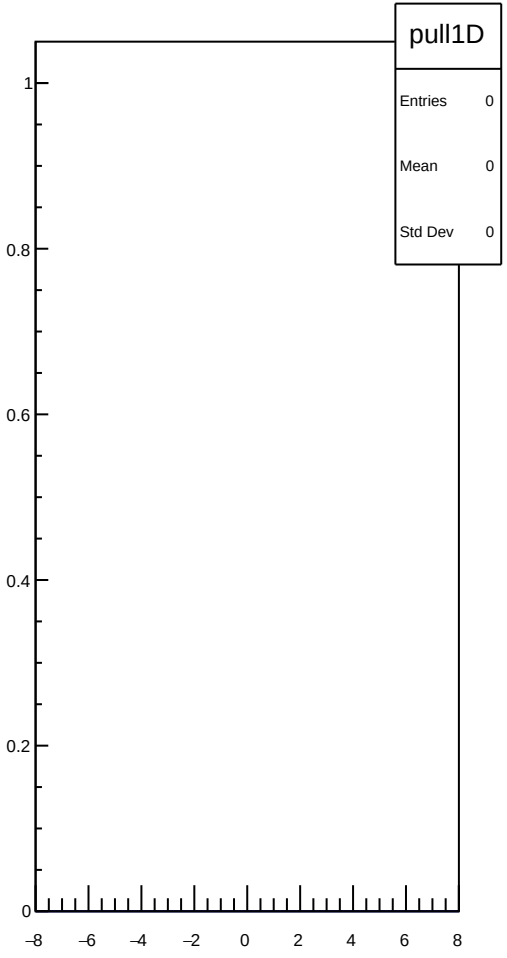

pull1D
Entries 51
Mean −0.07302
Std Dev 0.9465

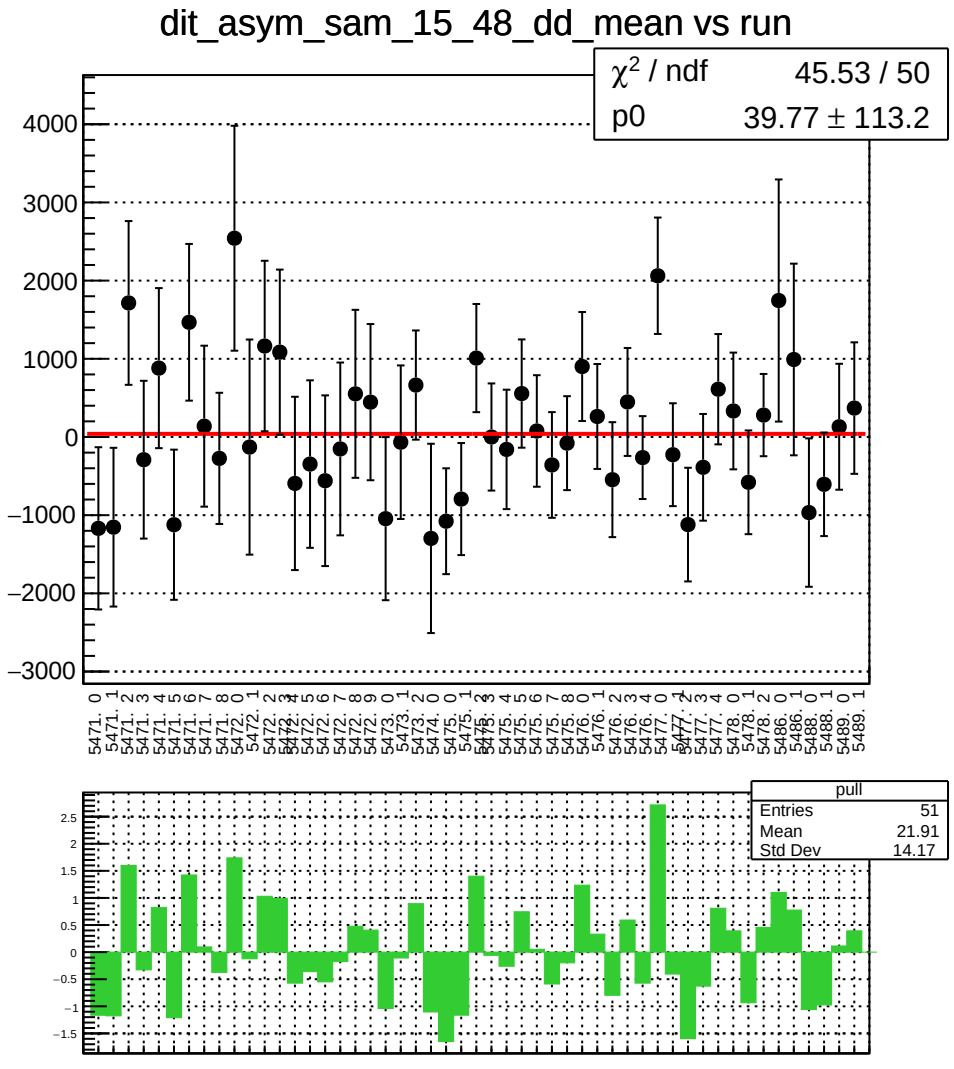

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 7.071e+04 / 50
p0 149.7 ± 0.1565
260
240
220
200
180
160
140
120
100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

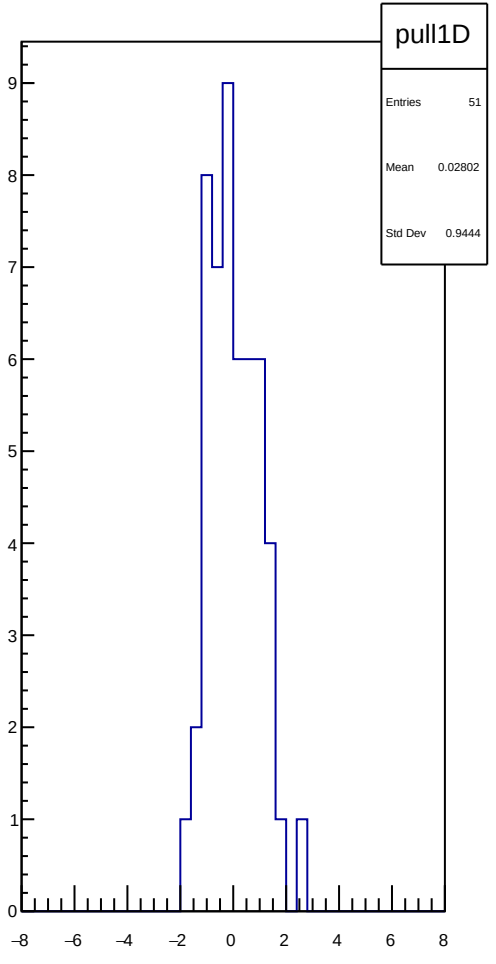

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

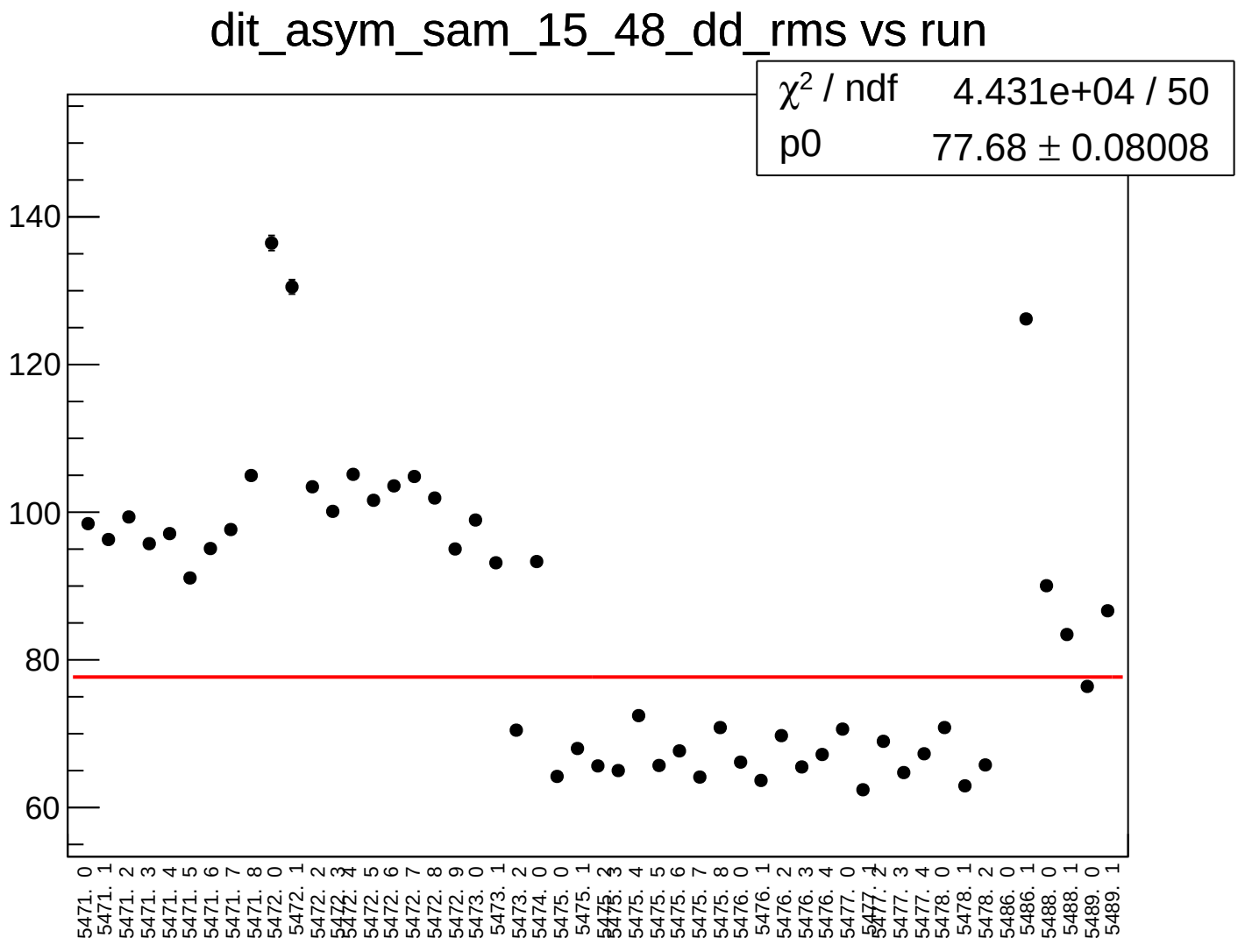

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

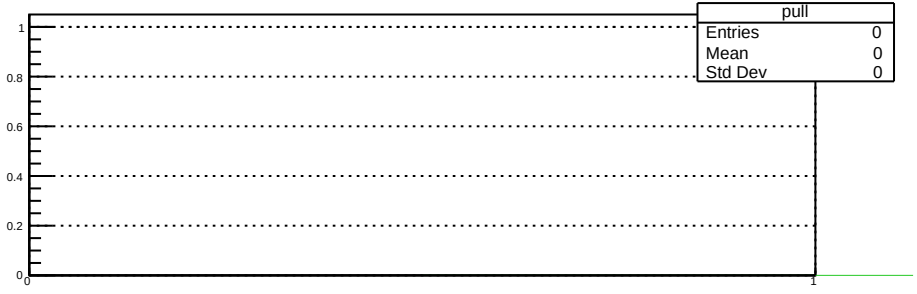

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

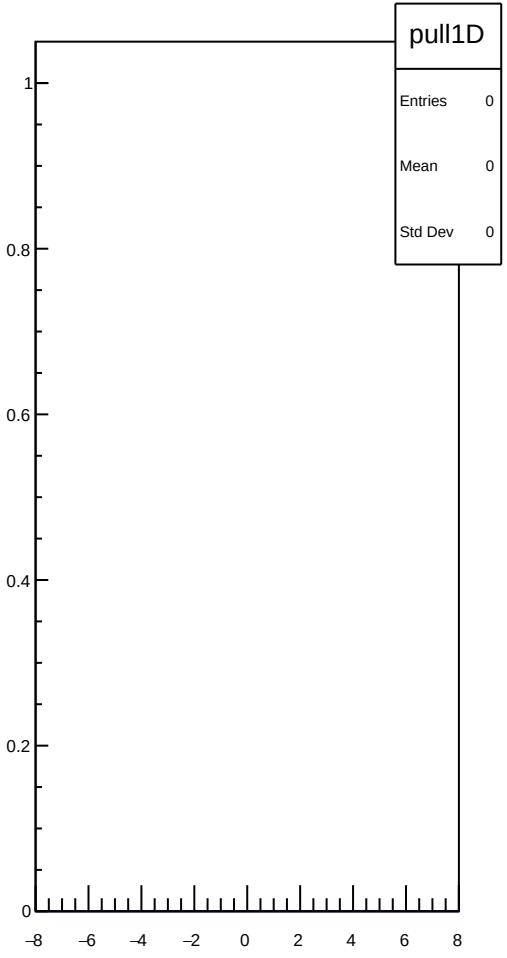

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

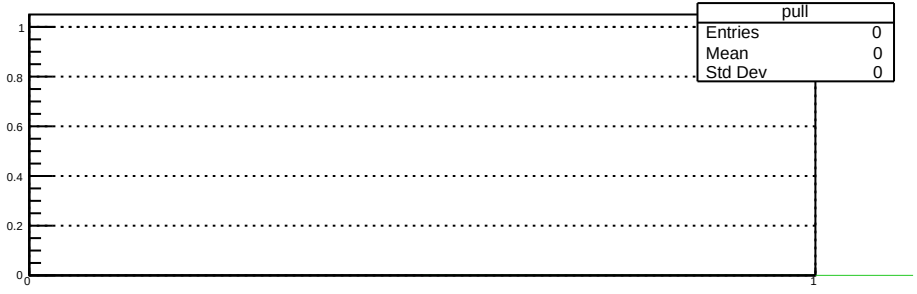

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 45.53 / 50
p0 39.77 ± 113.2
pull
Entries 51
Mean 21.91
Std Dev 14.17

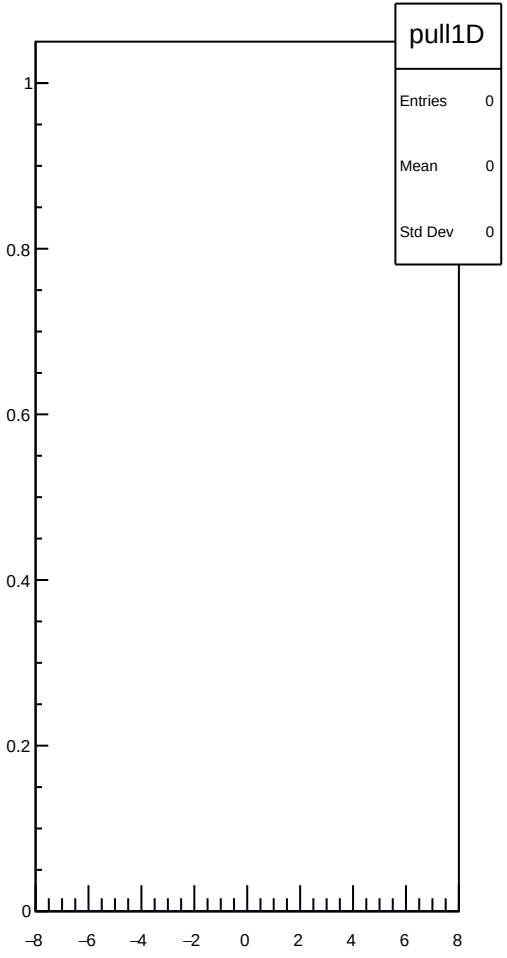

pull1D
Entries 51
Mean 0.02802
Std Dev 0.9444

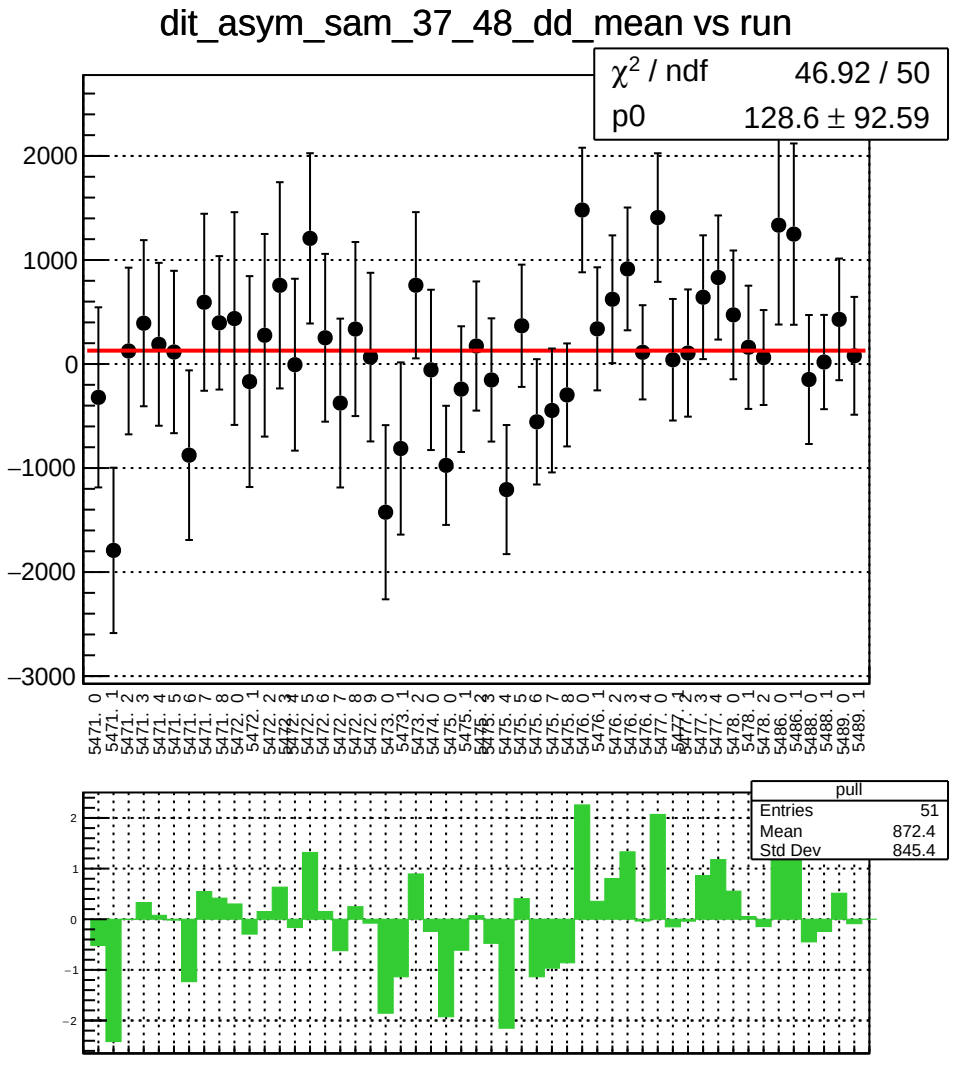

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 4.431e+04 / 50
p0 77.68 ± 0.08008
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

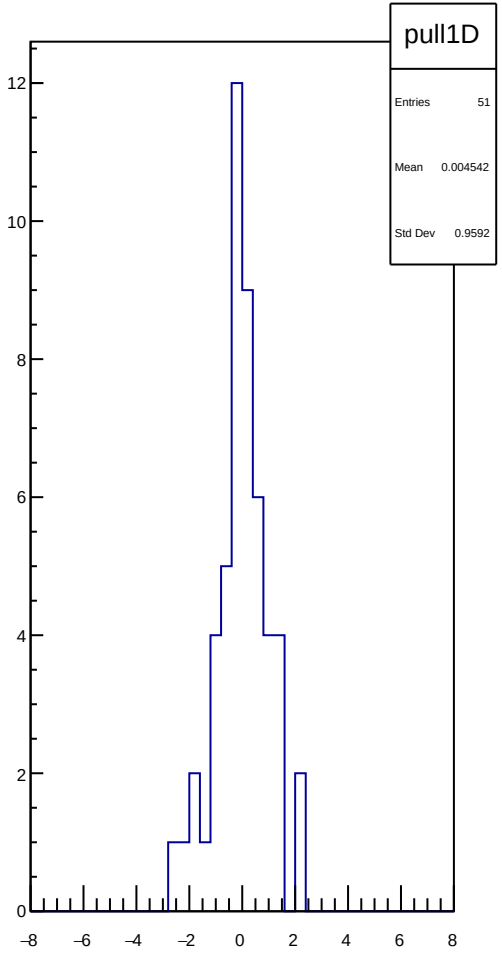

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

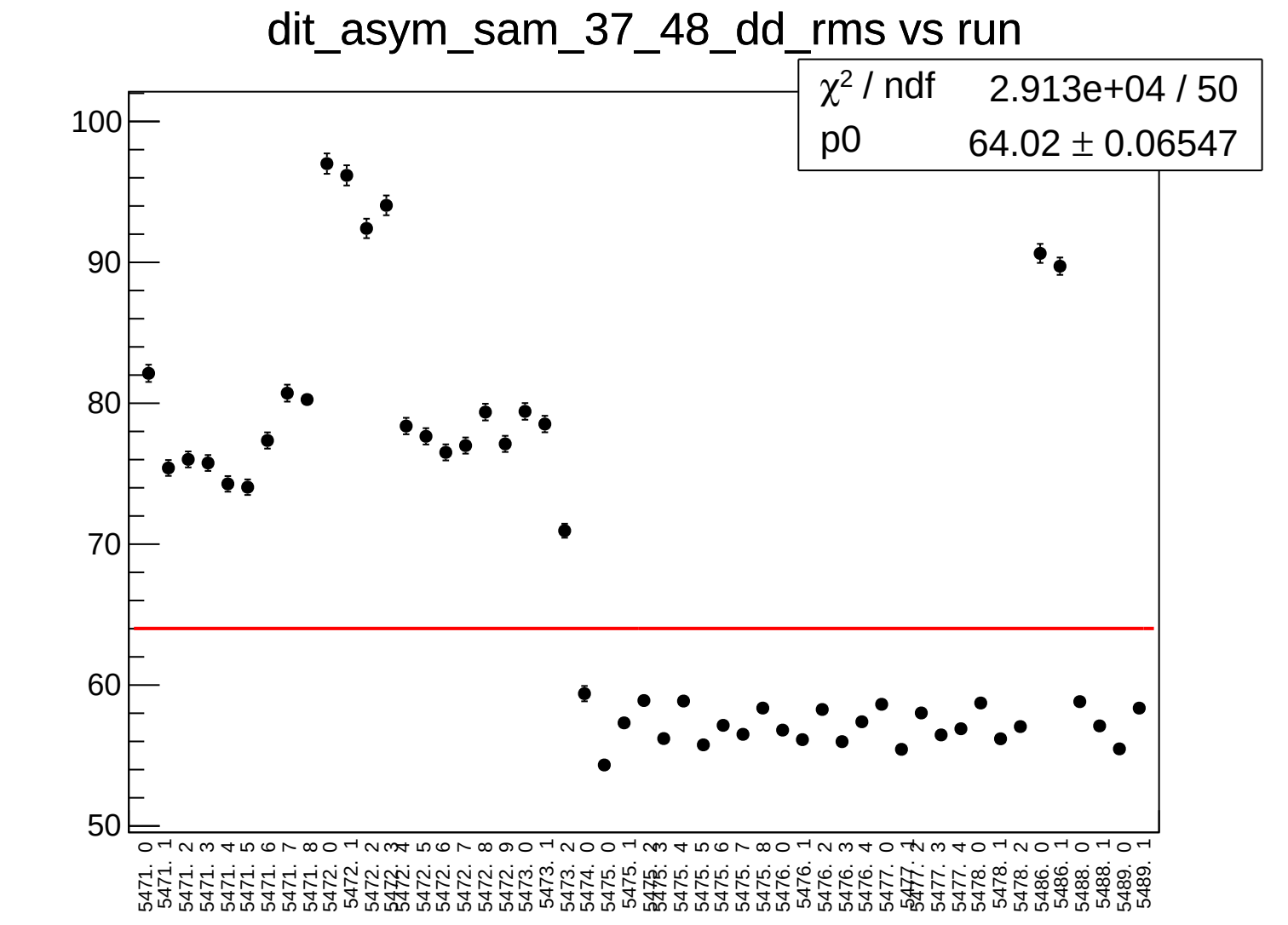

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

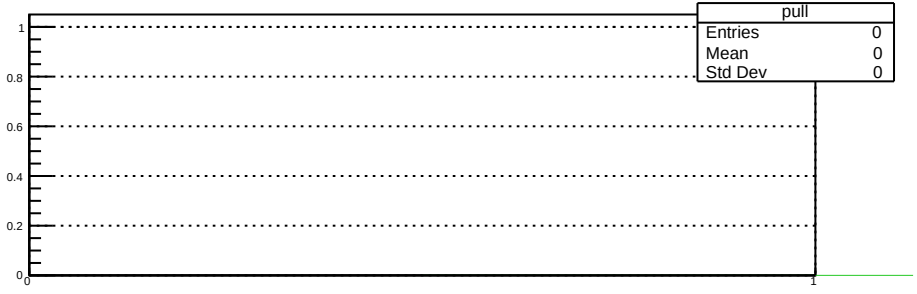

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

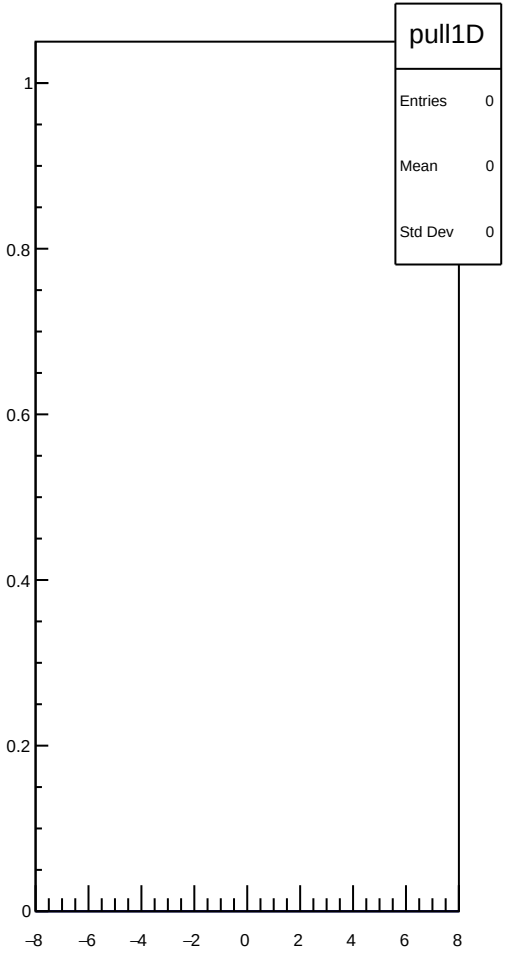

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

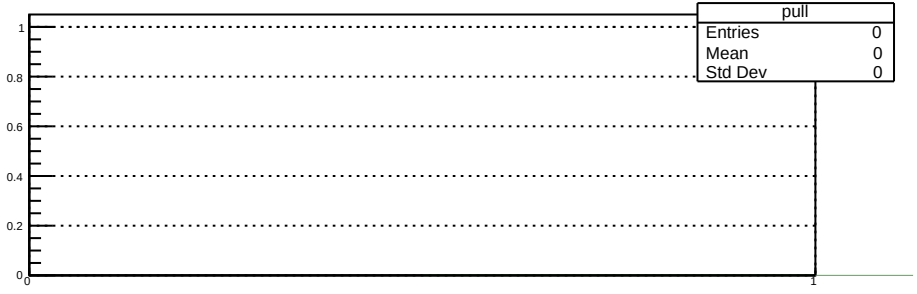

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 46.92 / 50
p0 128.6 ± 92.59
pull
Entries 51
Mean 872.4
Std Dev 845.4

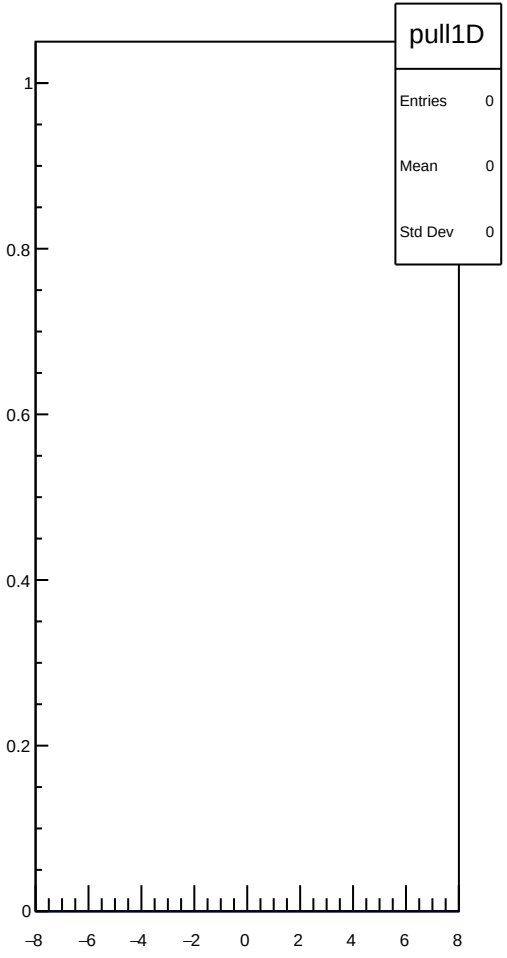

pull1D
Entries 51
Mean 0.004542
Std Dev 0.9592

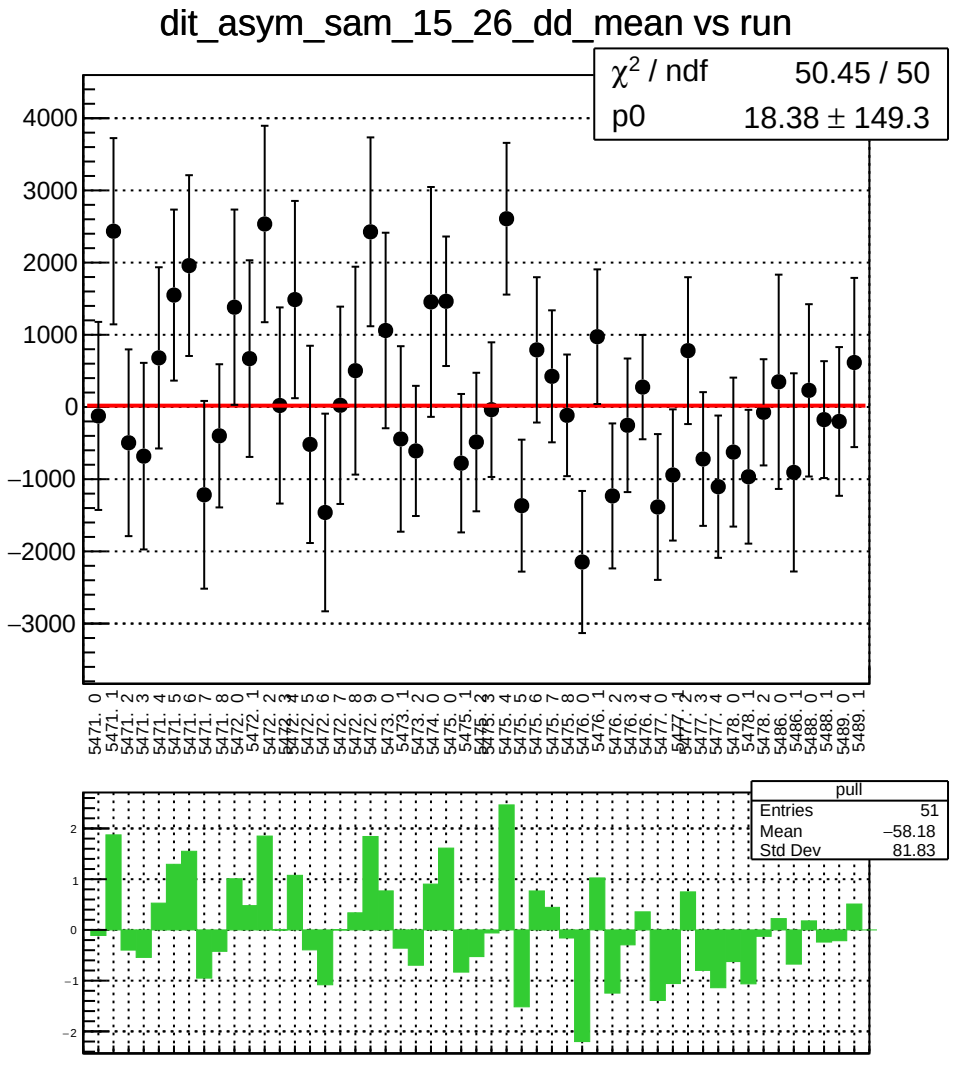

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 2.913e+04 / 50
p0 64.02 ± 0.06547
100
90
80
70
60
50
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

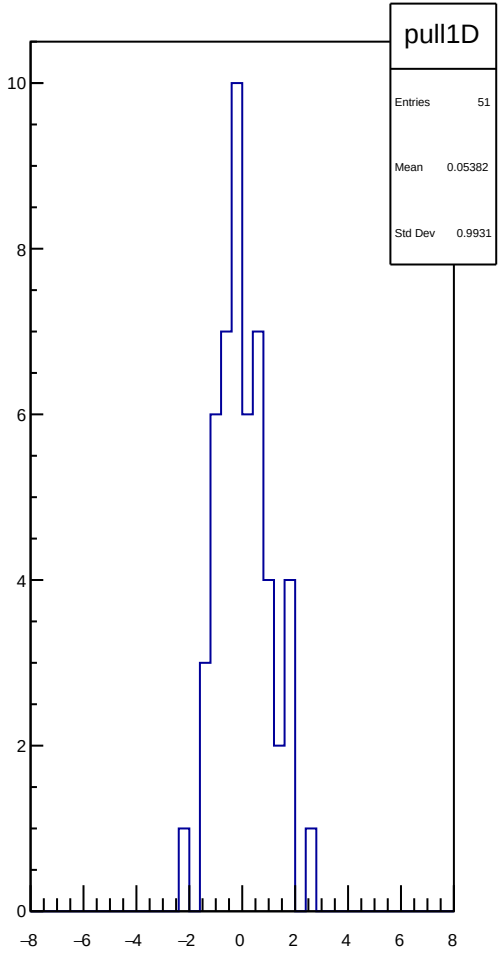

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

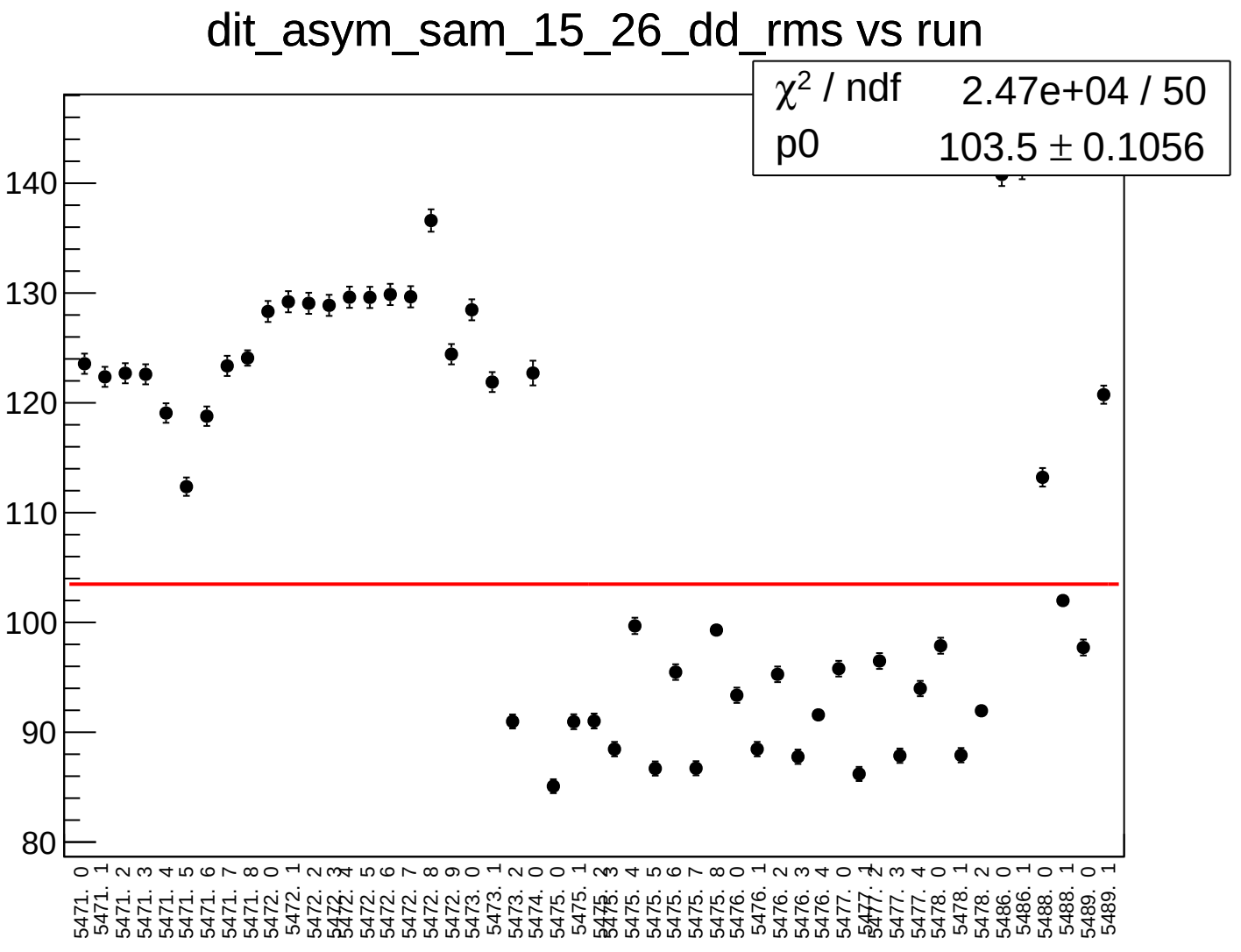

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

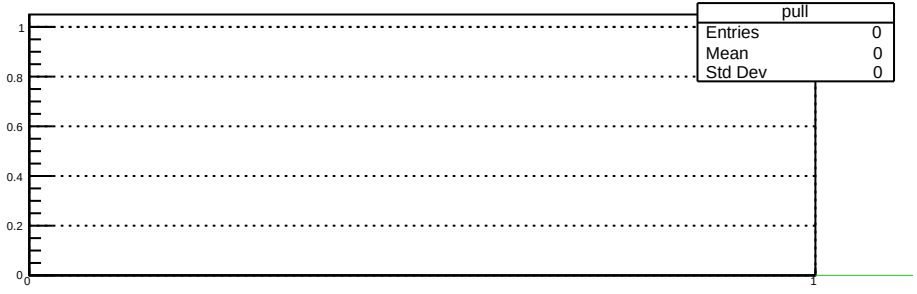

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

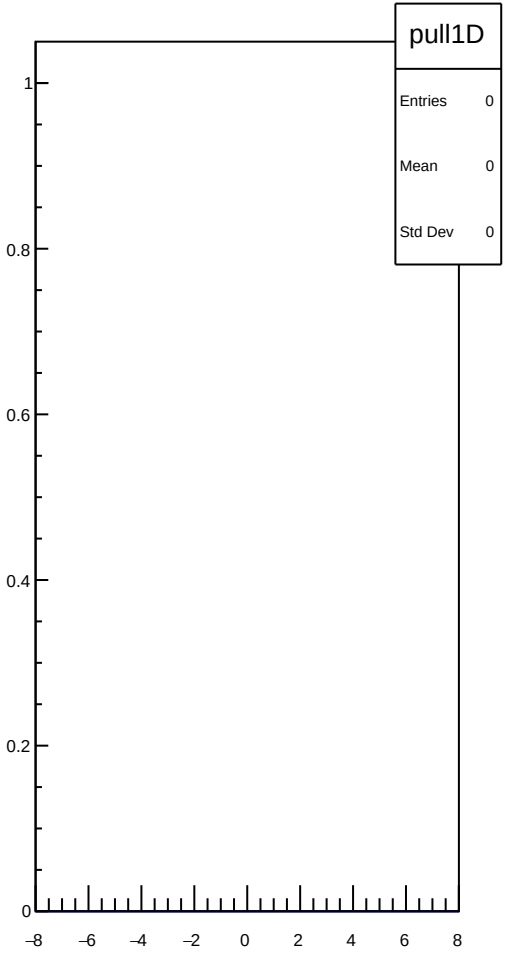

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

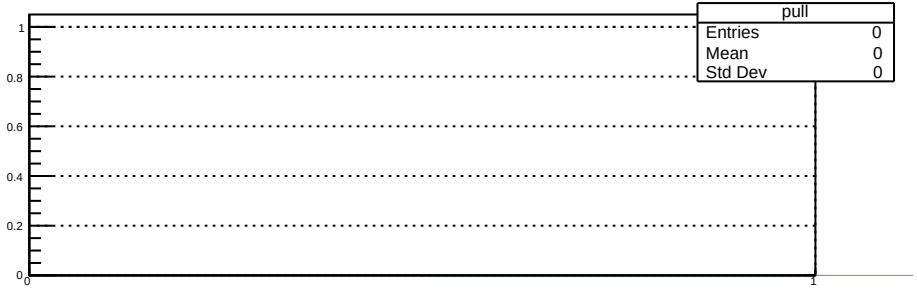

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 50.45 / 50
p0 18.38 ± 149.3
pull
Entries 51
Mean −58.18
Std Dev 81.83

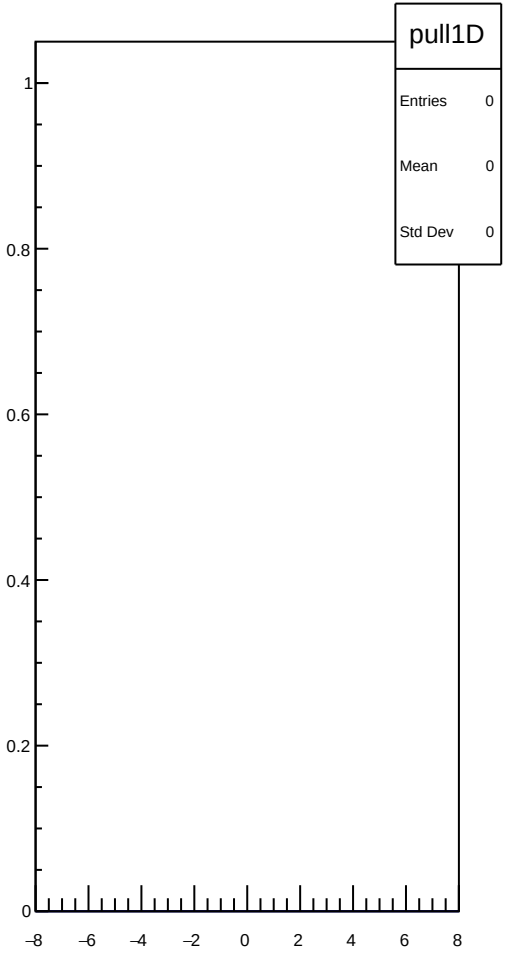

pull1D
Entries 51
Mean 0.05382
Std Dev 0.9931

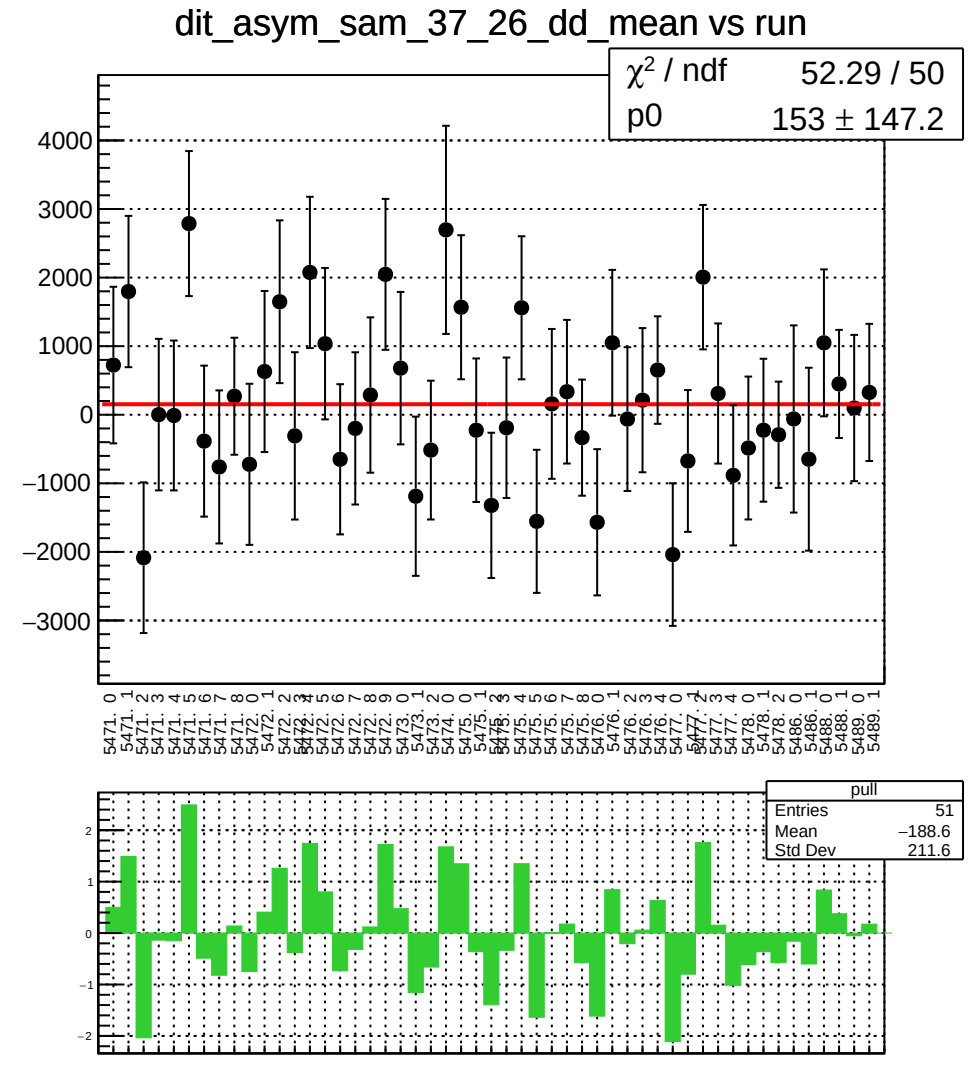

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.47e+04 / 50
p0 103.5 ± 0.1056
140
130
120
110
100
90
80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

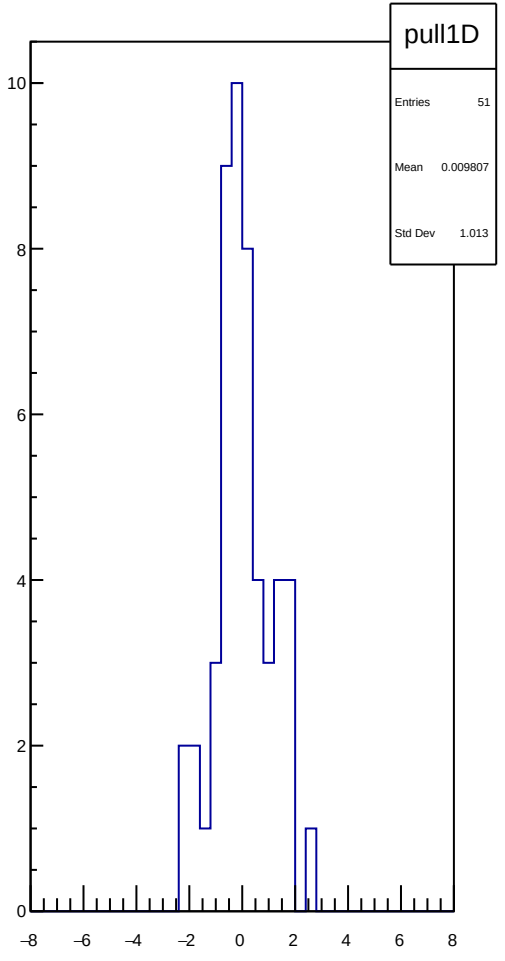

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

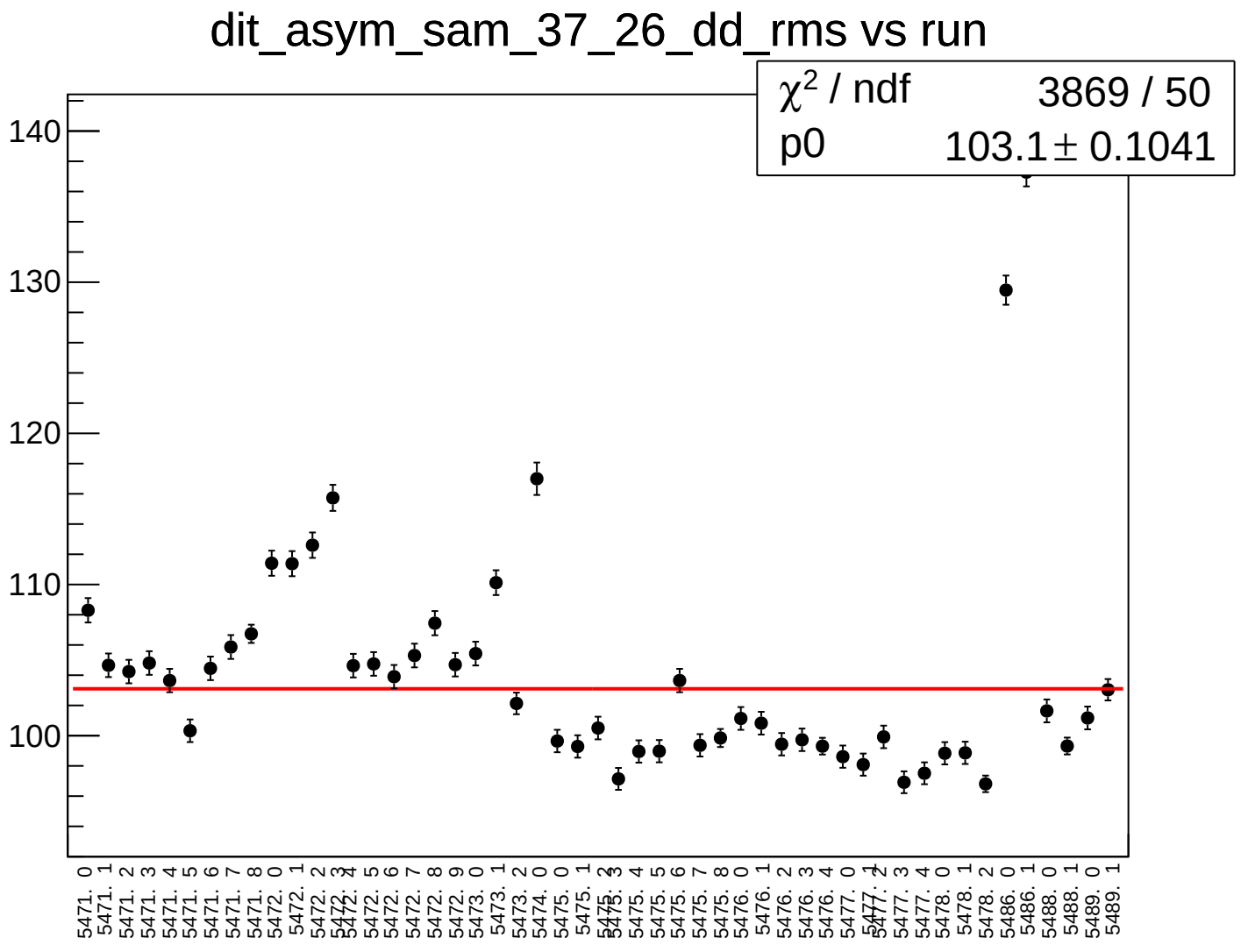

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

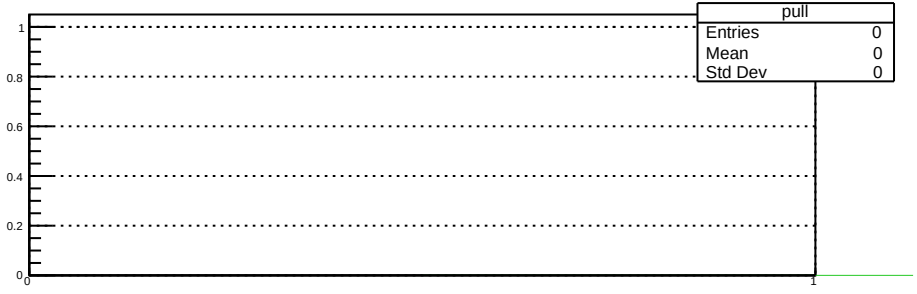

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

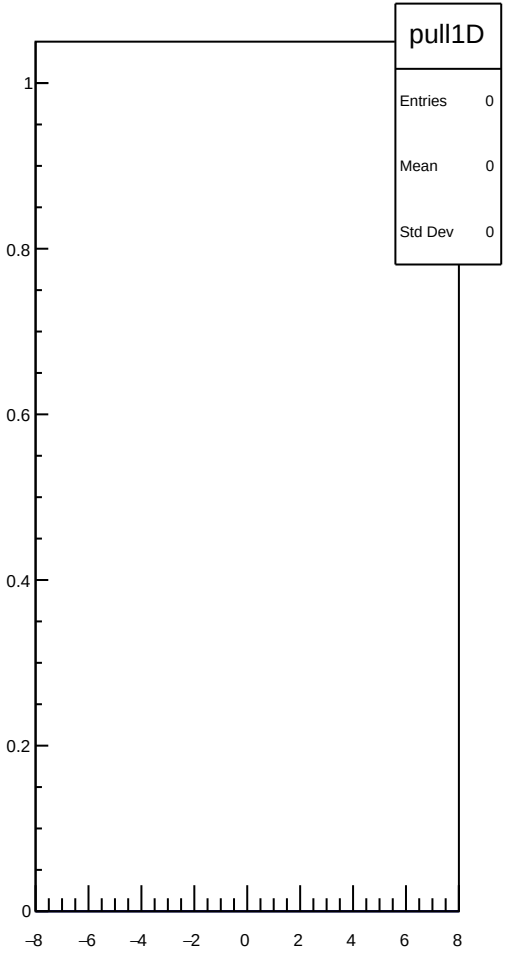

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

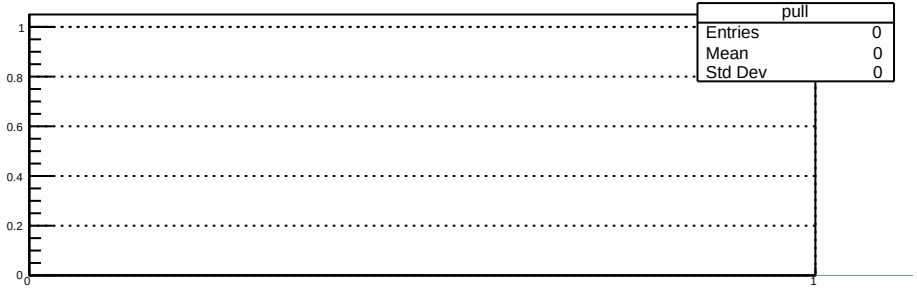

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 52.29 / 50
p0 153 ± 147.2
pull
Entries 51
Mean −188.6
Std Dev 211.6

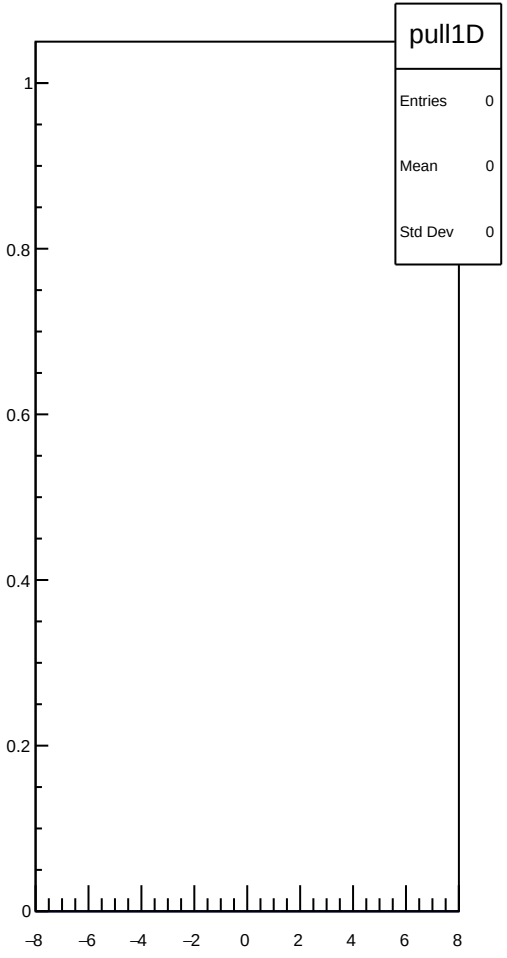

pull1D
Entries 51
Mean 0.009807
Std Dev 1.013

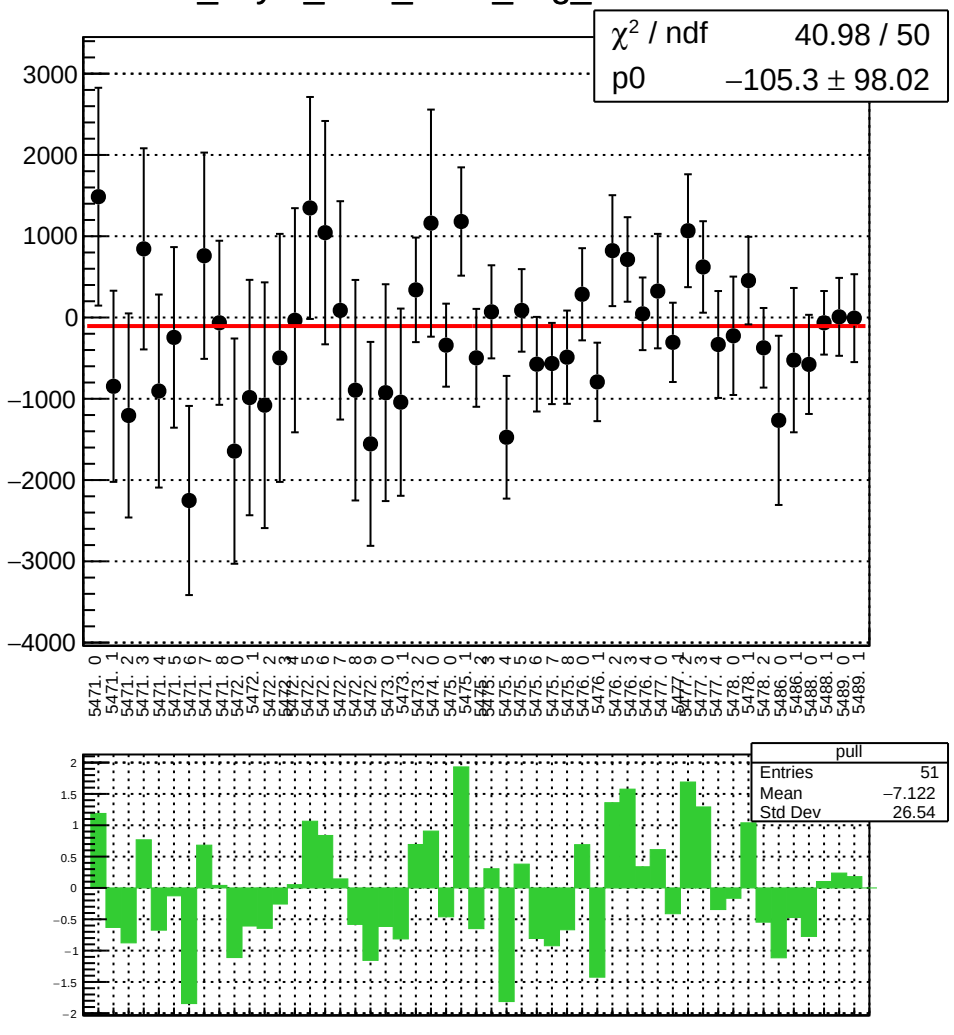

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 3869 / 50
p0 103.1 ± 0.1041
140
130
120
110
100
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

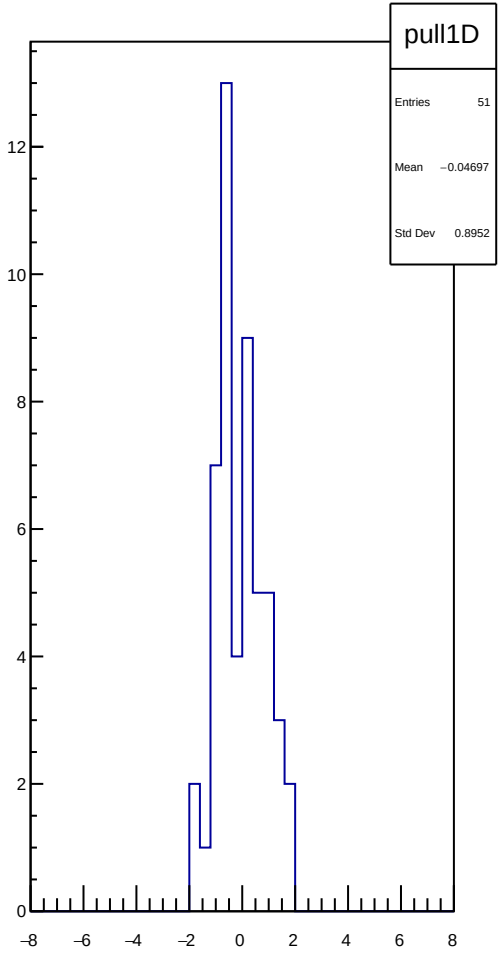

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

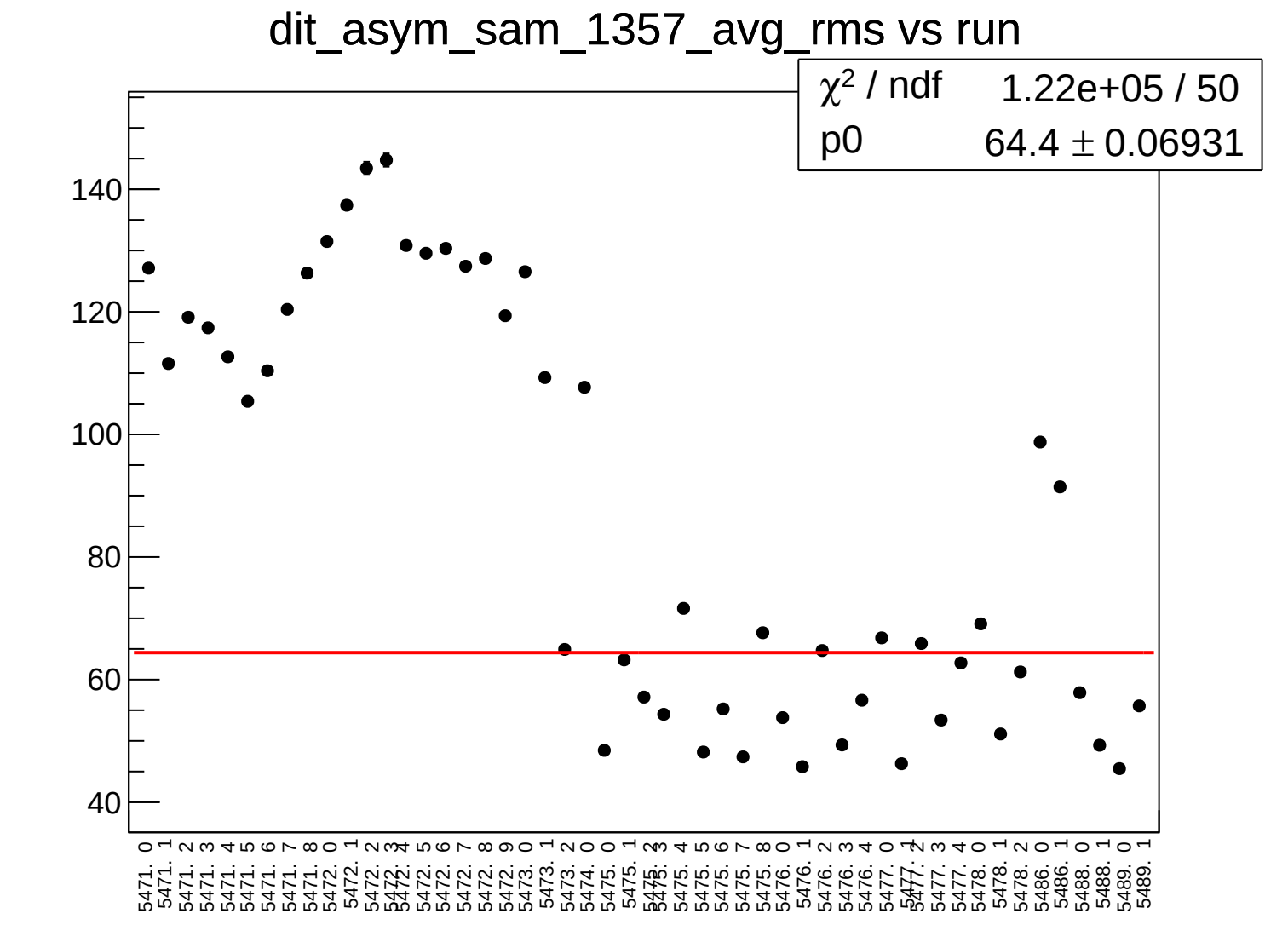

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

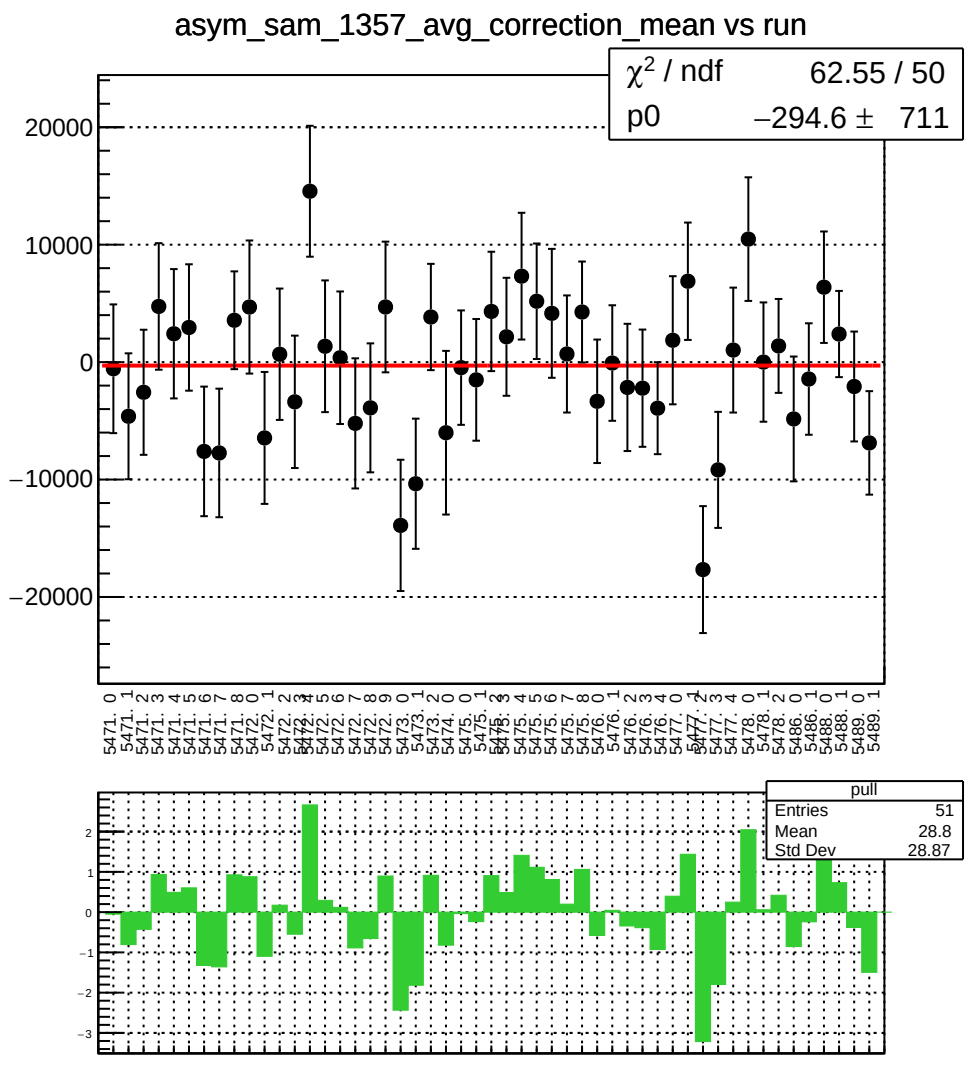

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

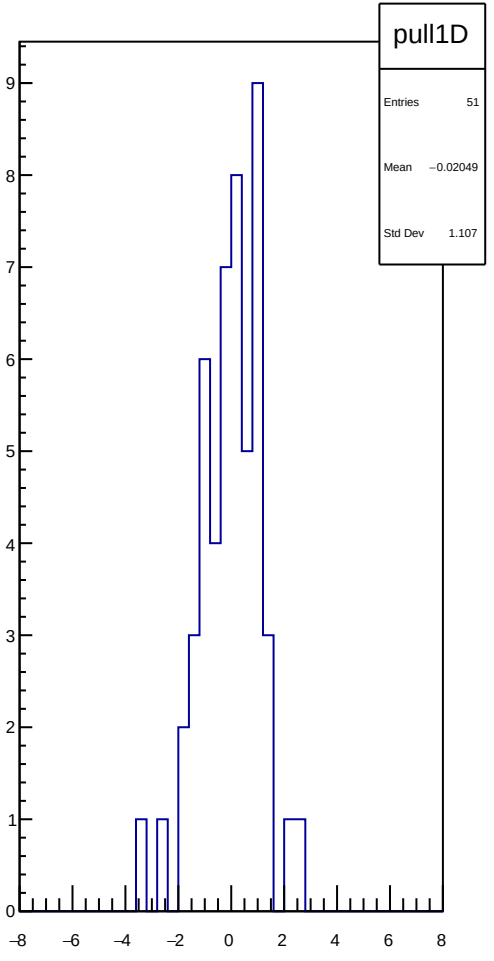

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

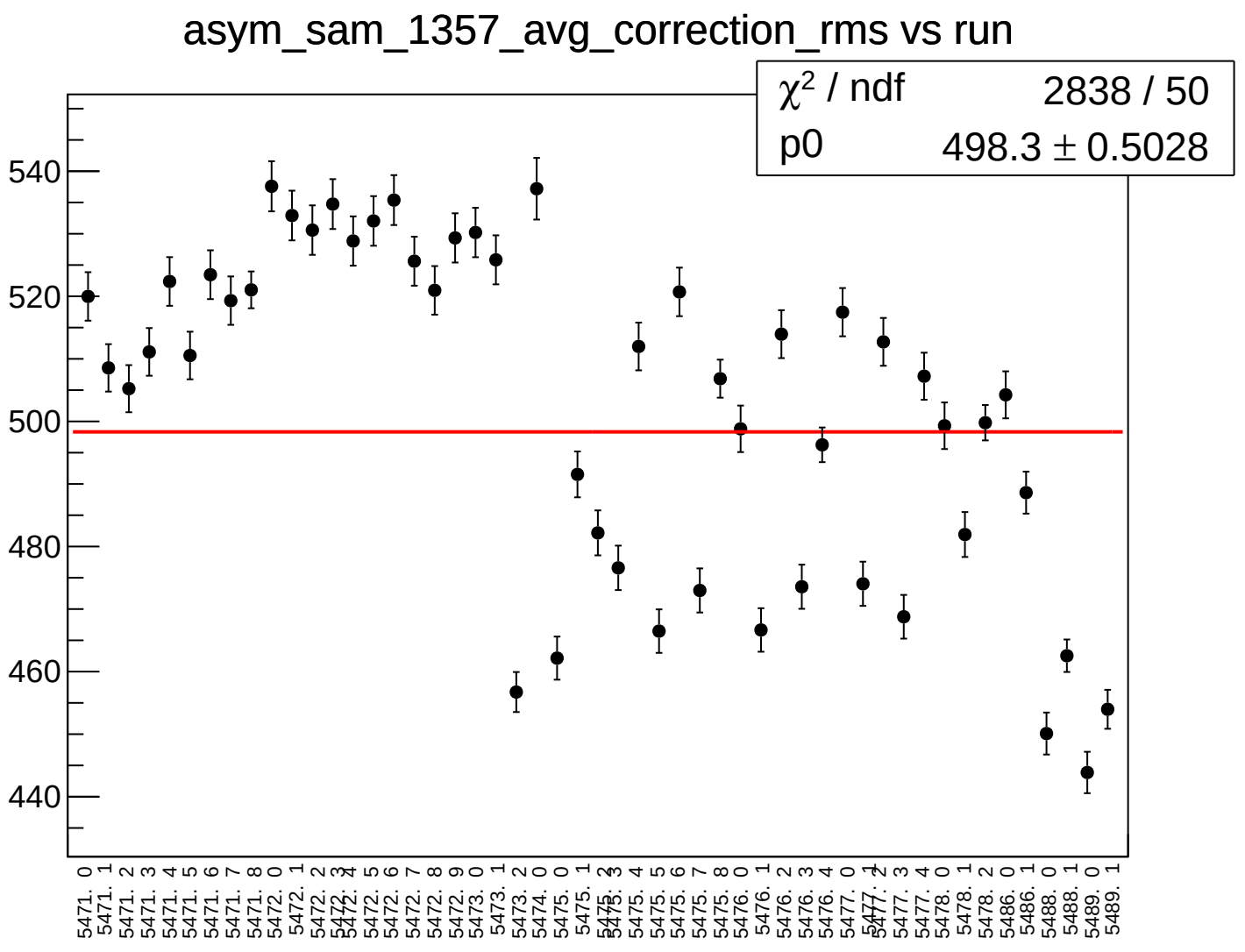

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 40.98 / 50
p0 −105.3 ± 98.02
pull
Entries 51
Mean −7.122
Std Dev 26.54

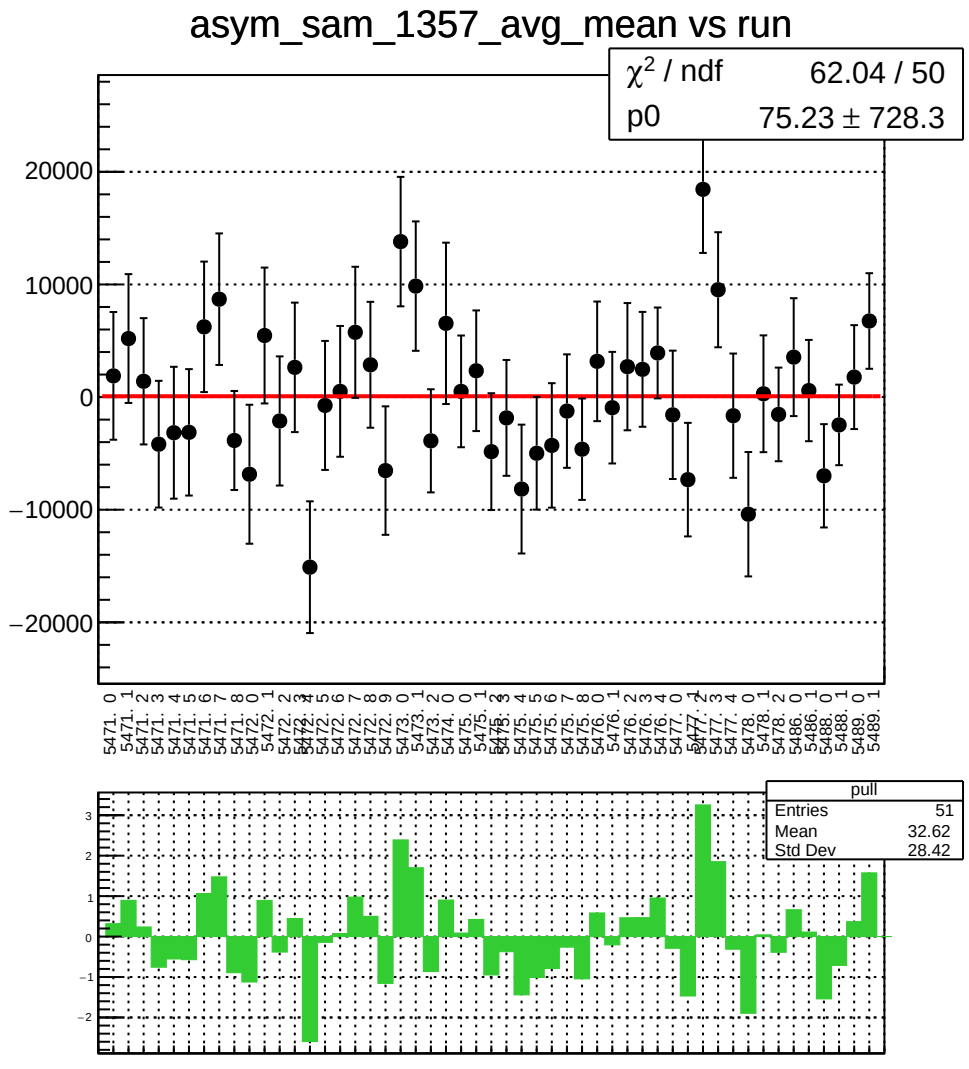

pull1D
Entries 51
Mean −0.04697
Std Dev 0.8952

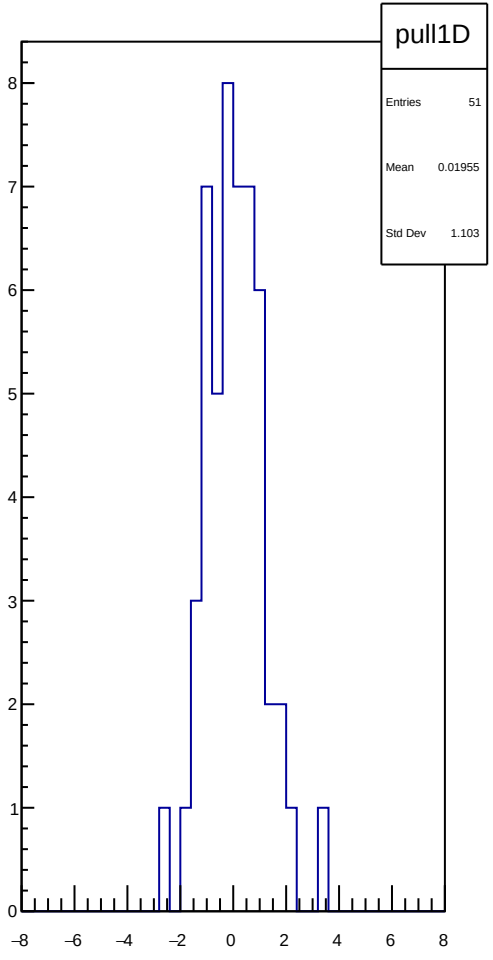

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.22e+05 / 50
p0 64.4 ± 0.06931
140
120
100
80
60
40
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

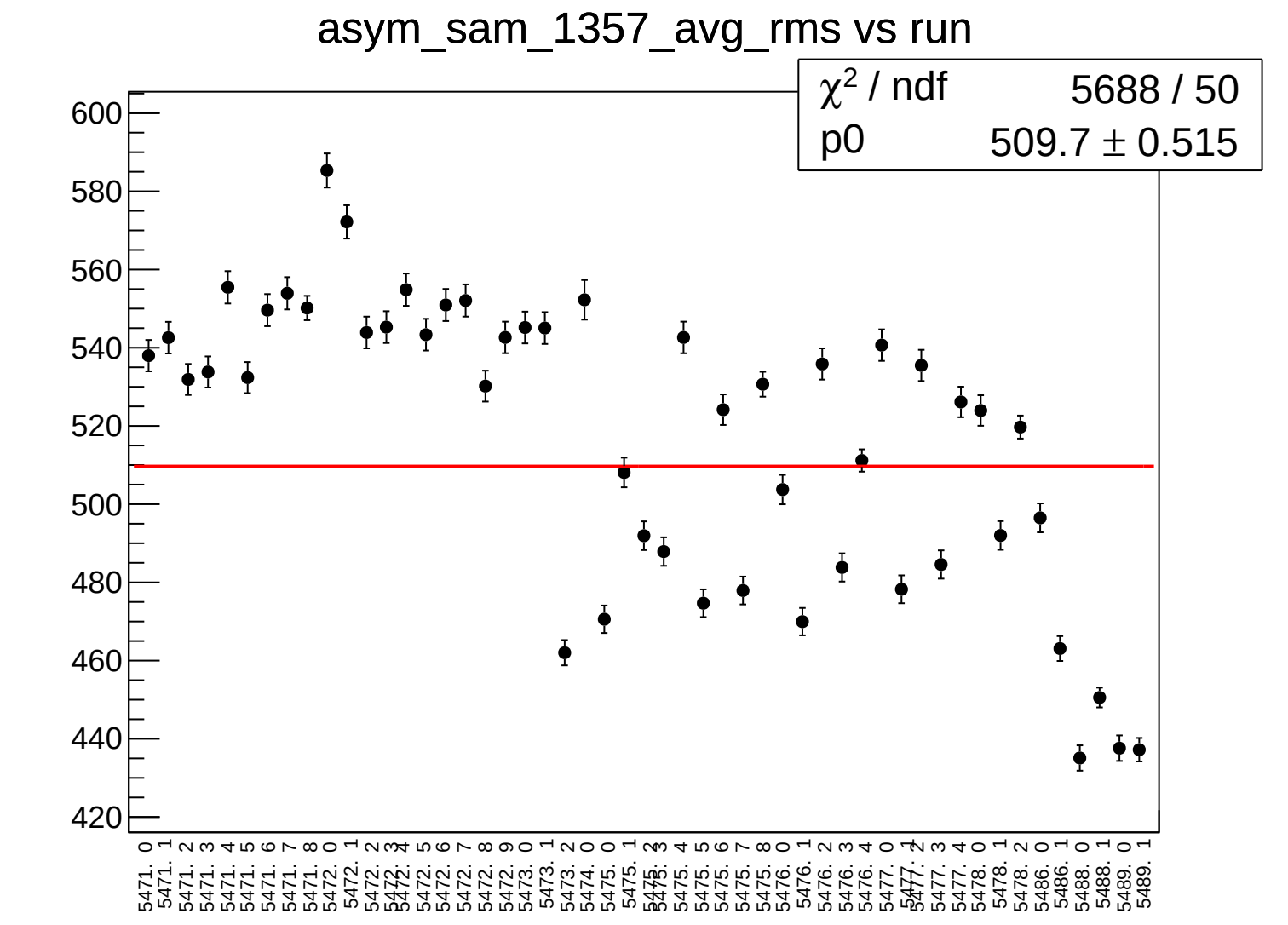

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 62.55 / 50
p0 −294.6 ± 711
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 28.8
Std Dev 28.87
2
1
0
−1
−2
−3

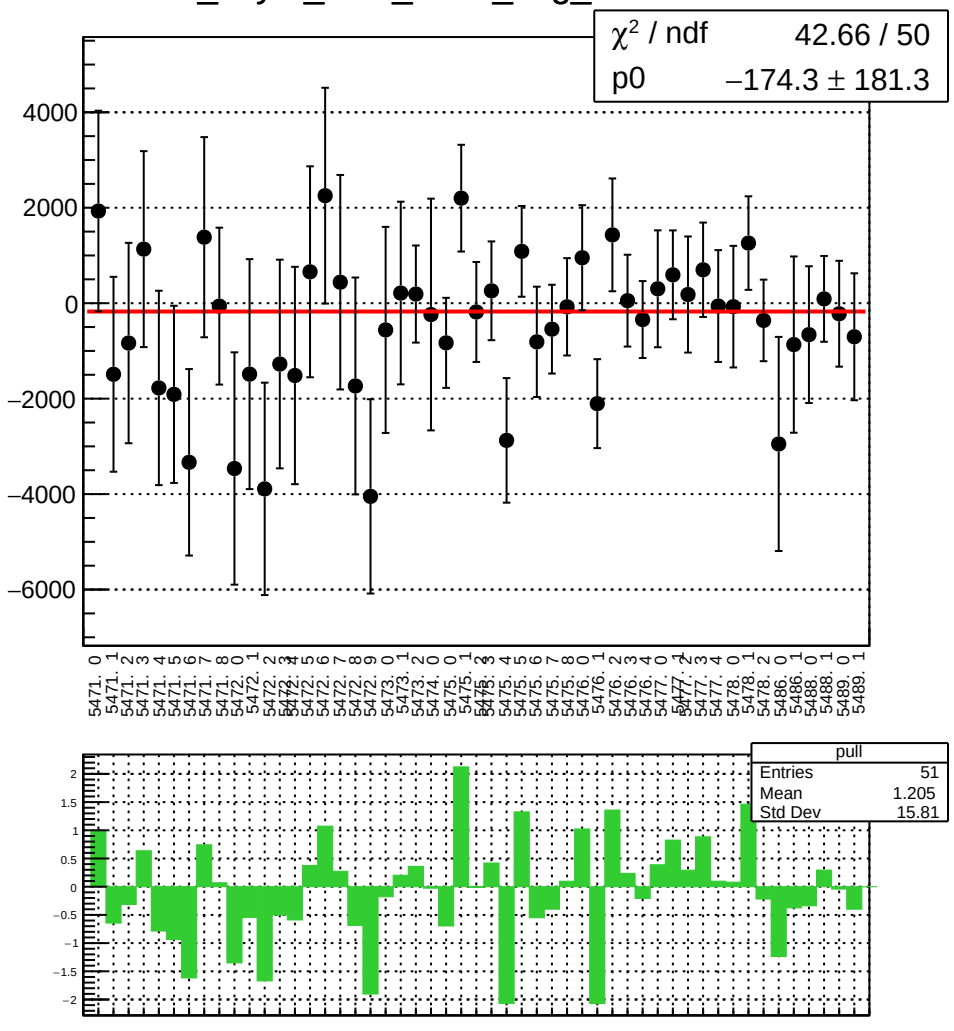

pull1D
Entries 51
Mean −0.02049
Std Dev 1.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

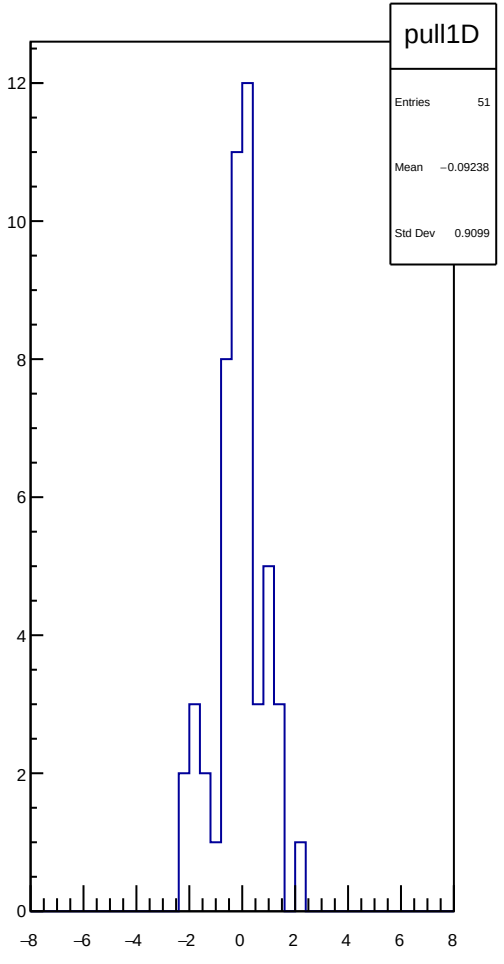

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2838 / 50
p0 498.3 ± 0.5028
540
520
500
480
460
440
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

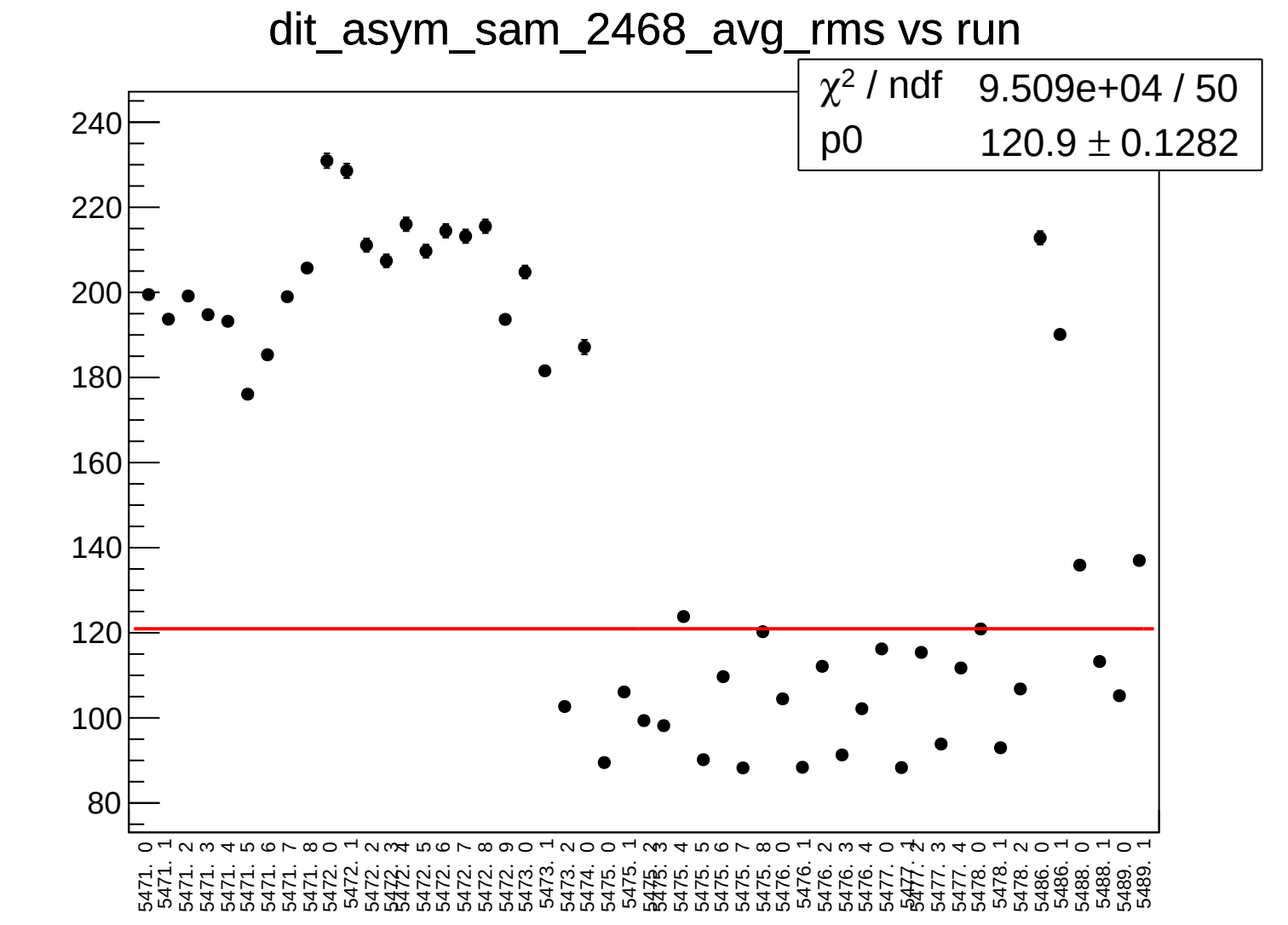

asym_sam_1357_avg_mean vs run
χ² / ndf 62.04 / 50
p0 75.23 ± 728.3
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 32.62
Std Dev 28.42
3
2
1
0
−1
−2

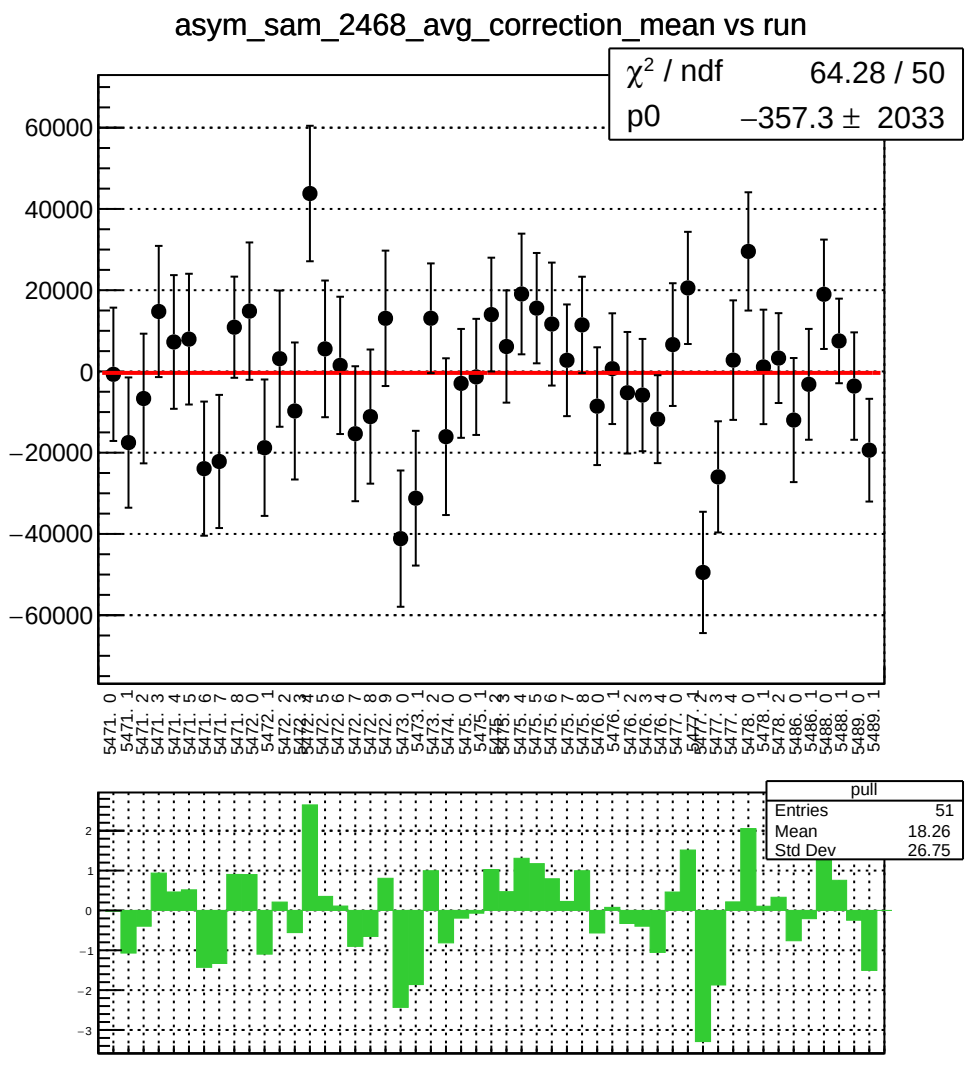

pull1D
Entries 51
Mean 0.01955
Std Dev 1.103
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

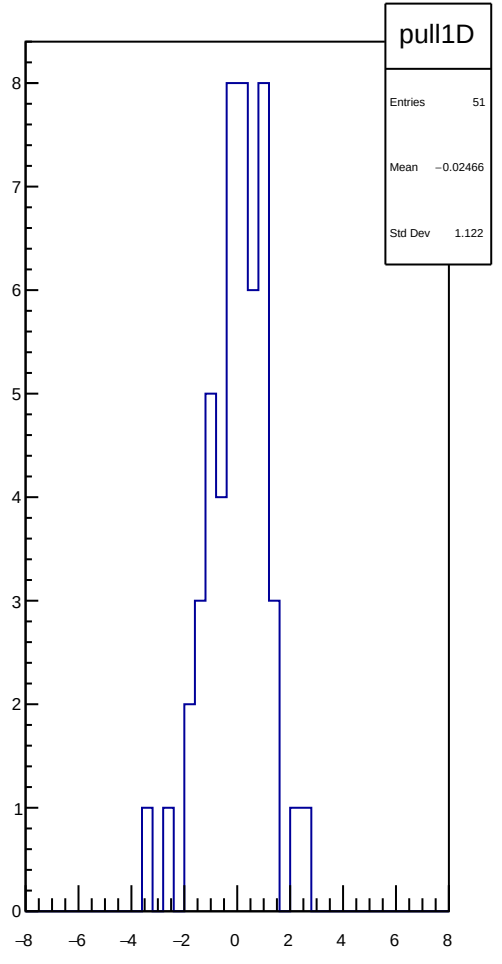

asym_sam_1357_avg_rms vs run
χ^2 / ndf 5688 / 50
p0 509.7 ± 0.515
600
580
560
540
520
500
480
460
440
420
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

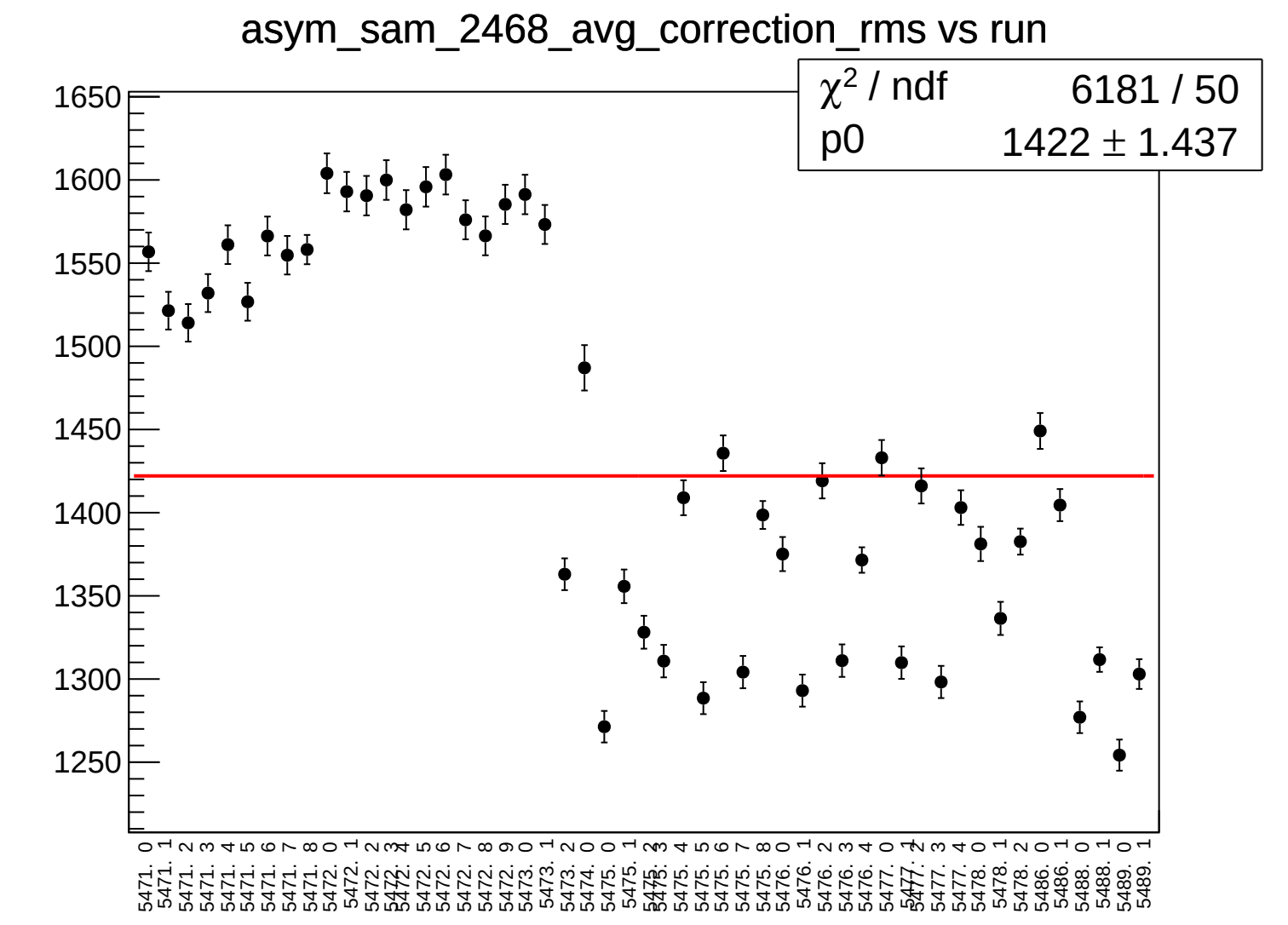

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 42.66 / 50
p0 −174.3 ± 181.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 1.205
Std Dev 15.81
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

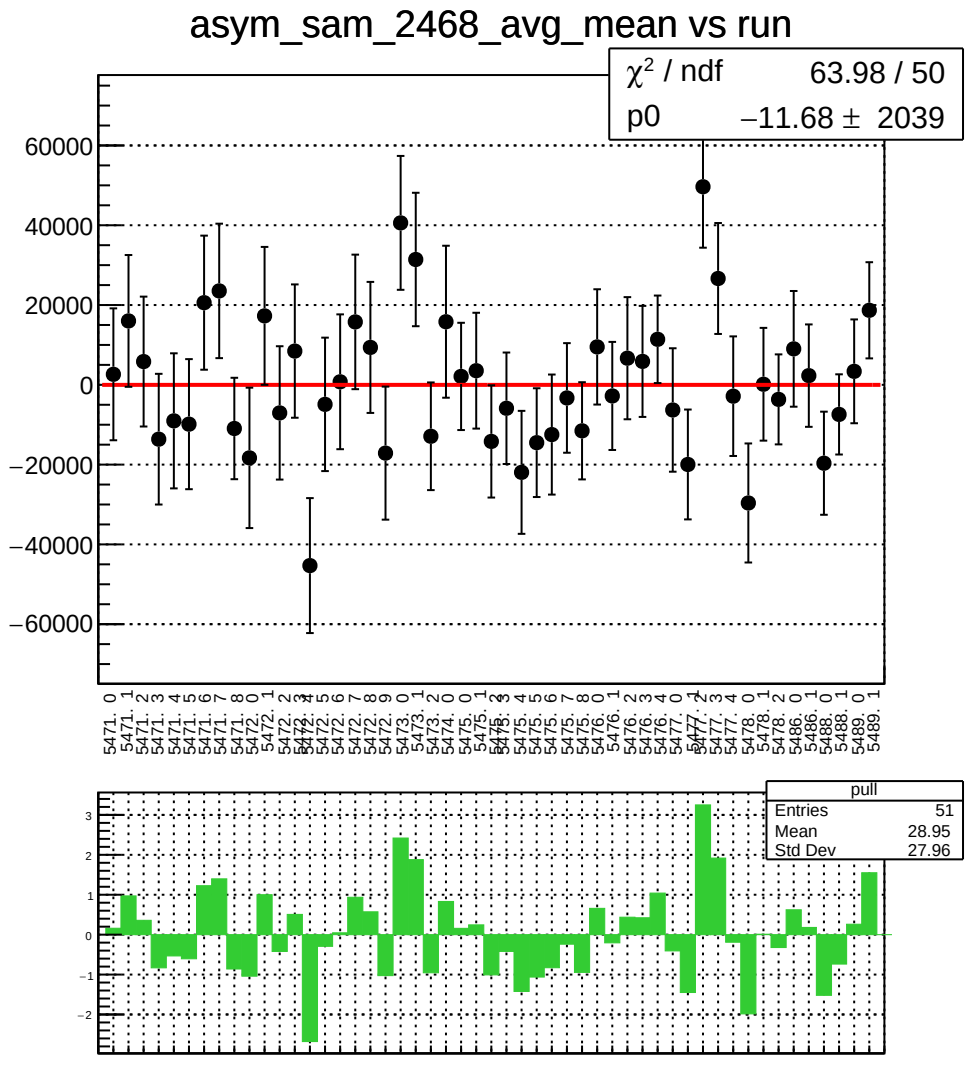

pull1D
Entries 51
Mean −0.09238
Std Dev 0.9099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

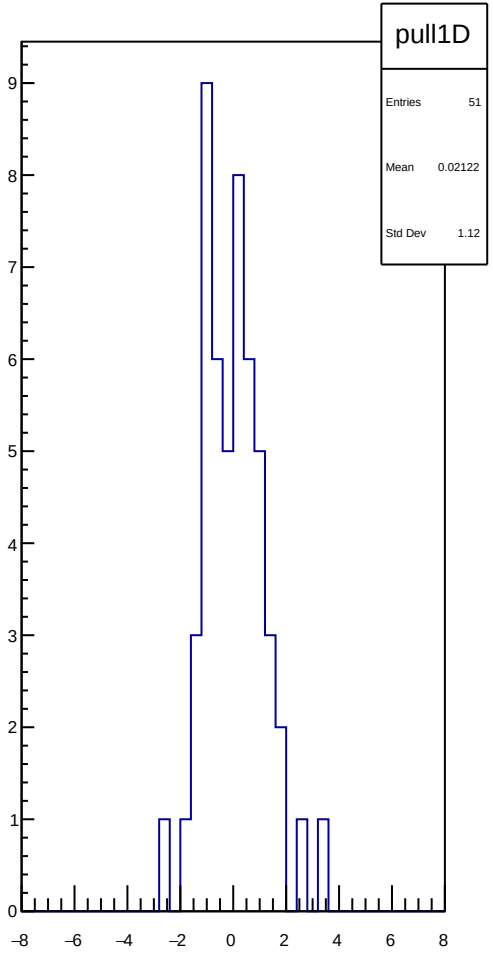

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 9.509e+04 / 50
p0 120.9 ± 0.1282
240
220
200
180
160
140
120
100
80
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

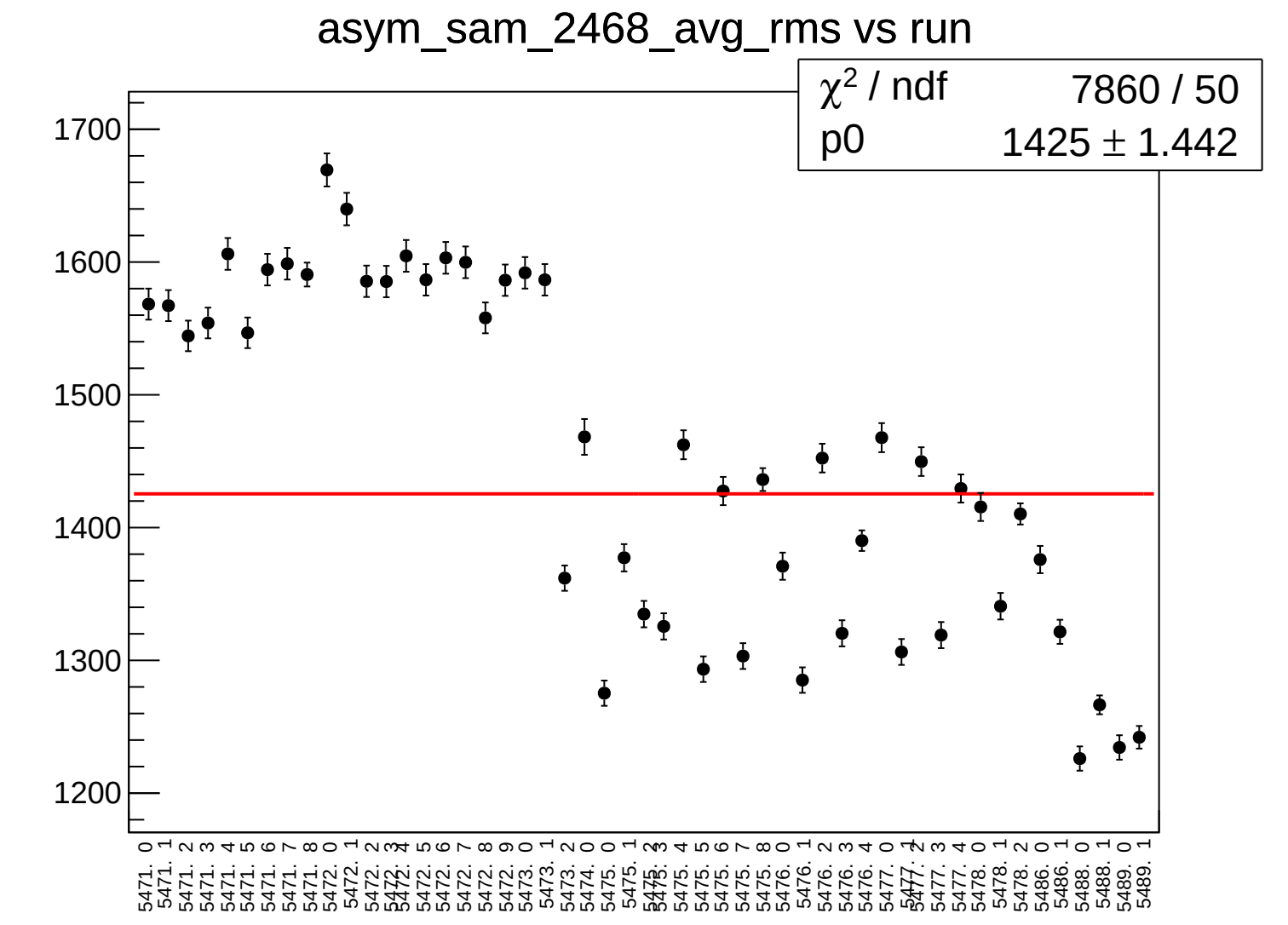

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 64.28 / 50
p0 −357.3 ± 2033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 18.26
Std Dev 26.75
2
1
0
−1
−2
−3

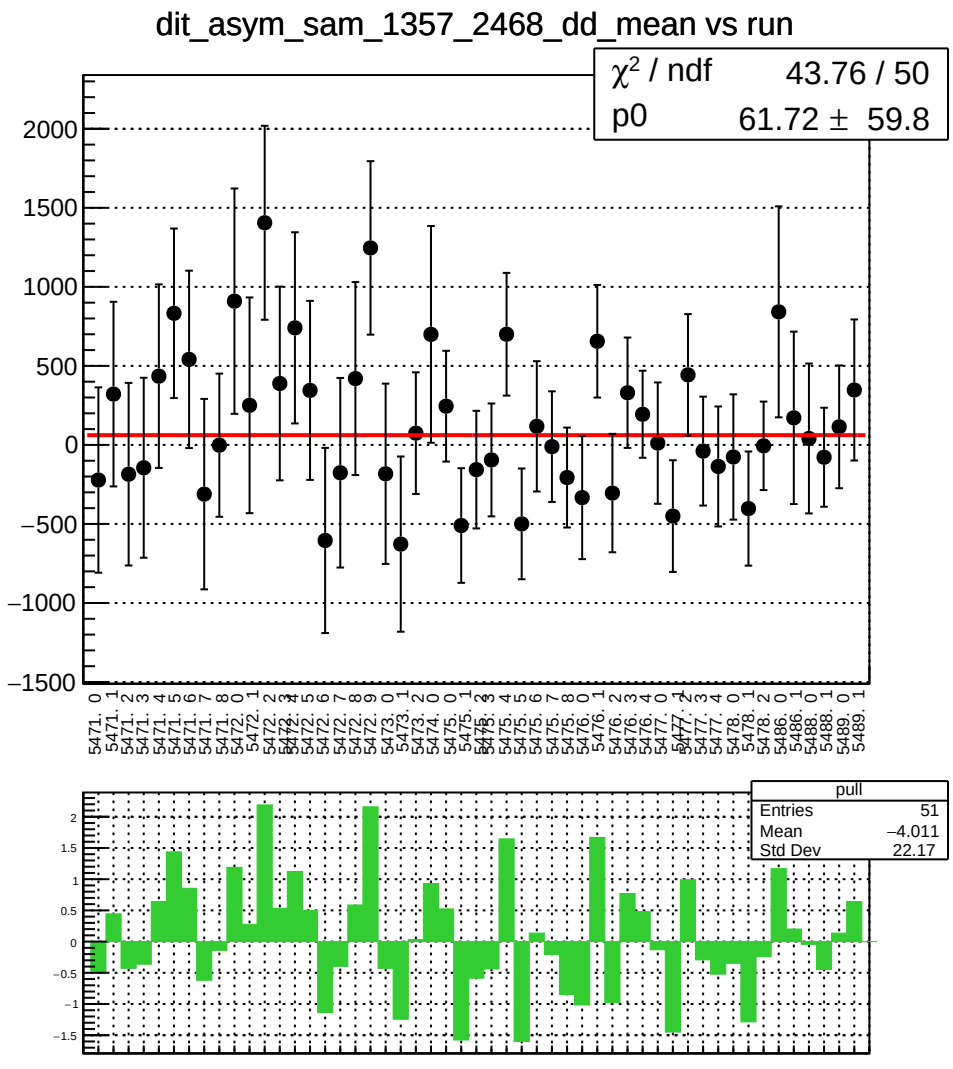

pull1D
Entries 51
Mean −0.02466
Std Dev 1.122
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

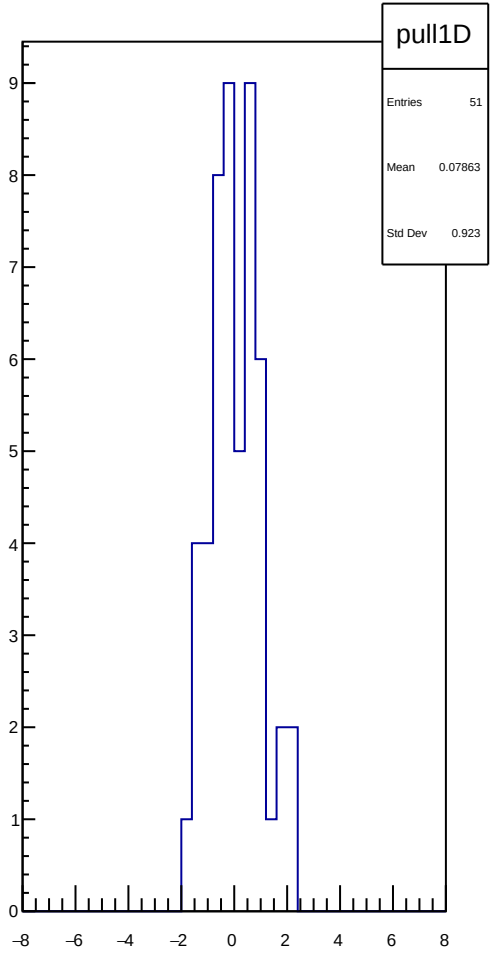

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 6181 / 50
p0 1422 ± 1.437
1650
1600
1550
1500
1450
1400
1350
1300
1250
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

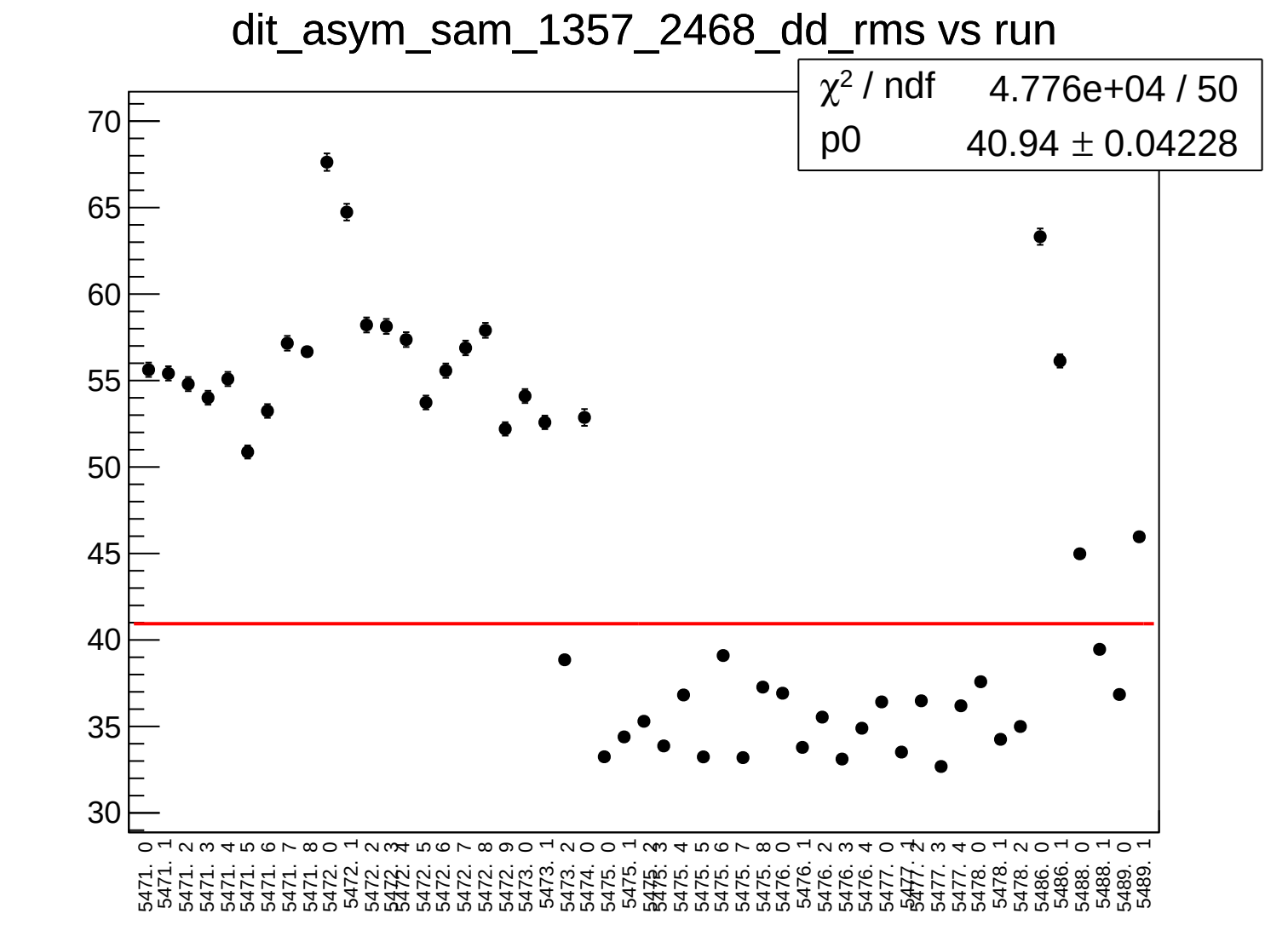

asym_sam_2468_avg_mean vs run
χ² / ndf 63.98 / 50
p0 −11.68 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 28.95
Std Dev 27.96
3
2
1
0
−1
−2

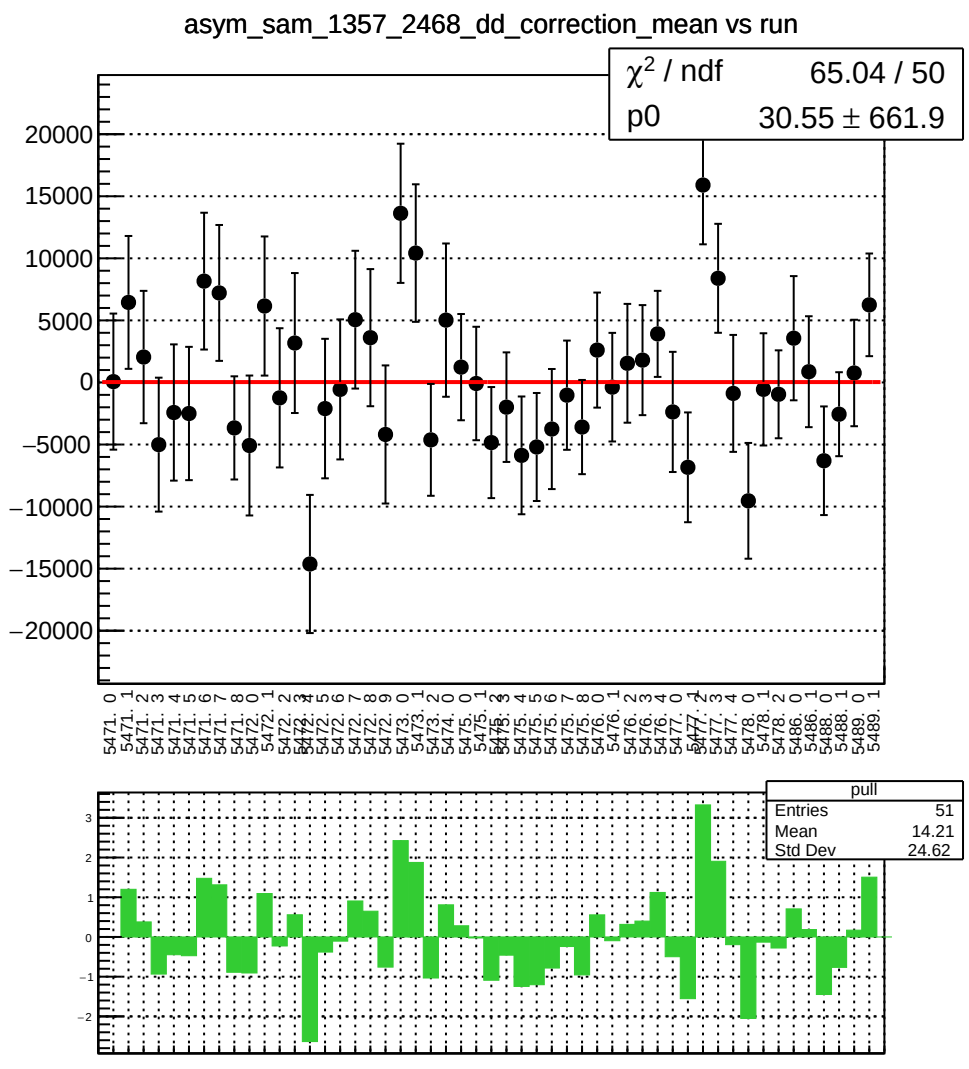

pull1D
Entries 51
Mean 0.02122
Std Dev 1.12
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

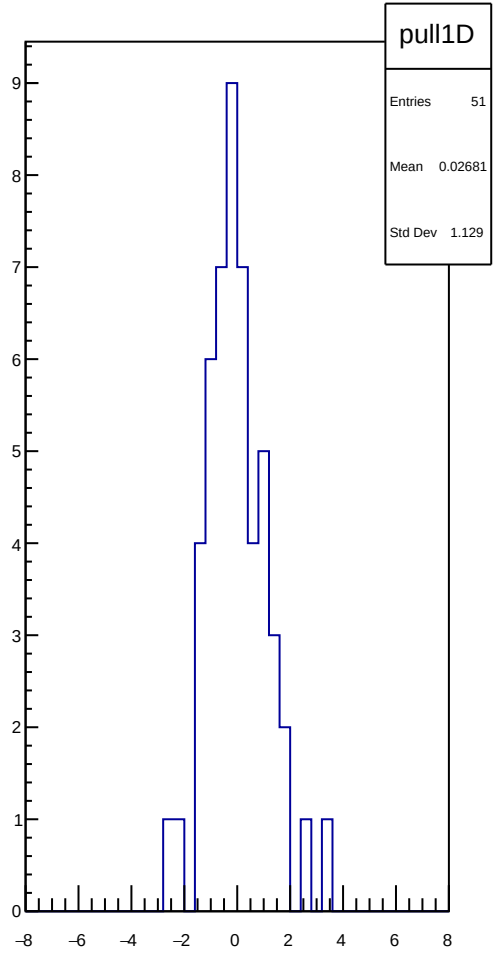

asym_sam_2468_avg_rms vs run
χ² / ndf 7860 / 50
p0 1425 ± 1.442
1700
1600
1500
1400
1300
1200
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

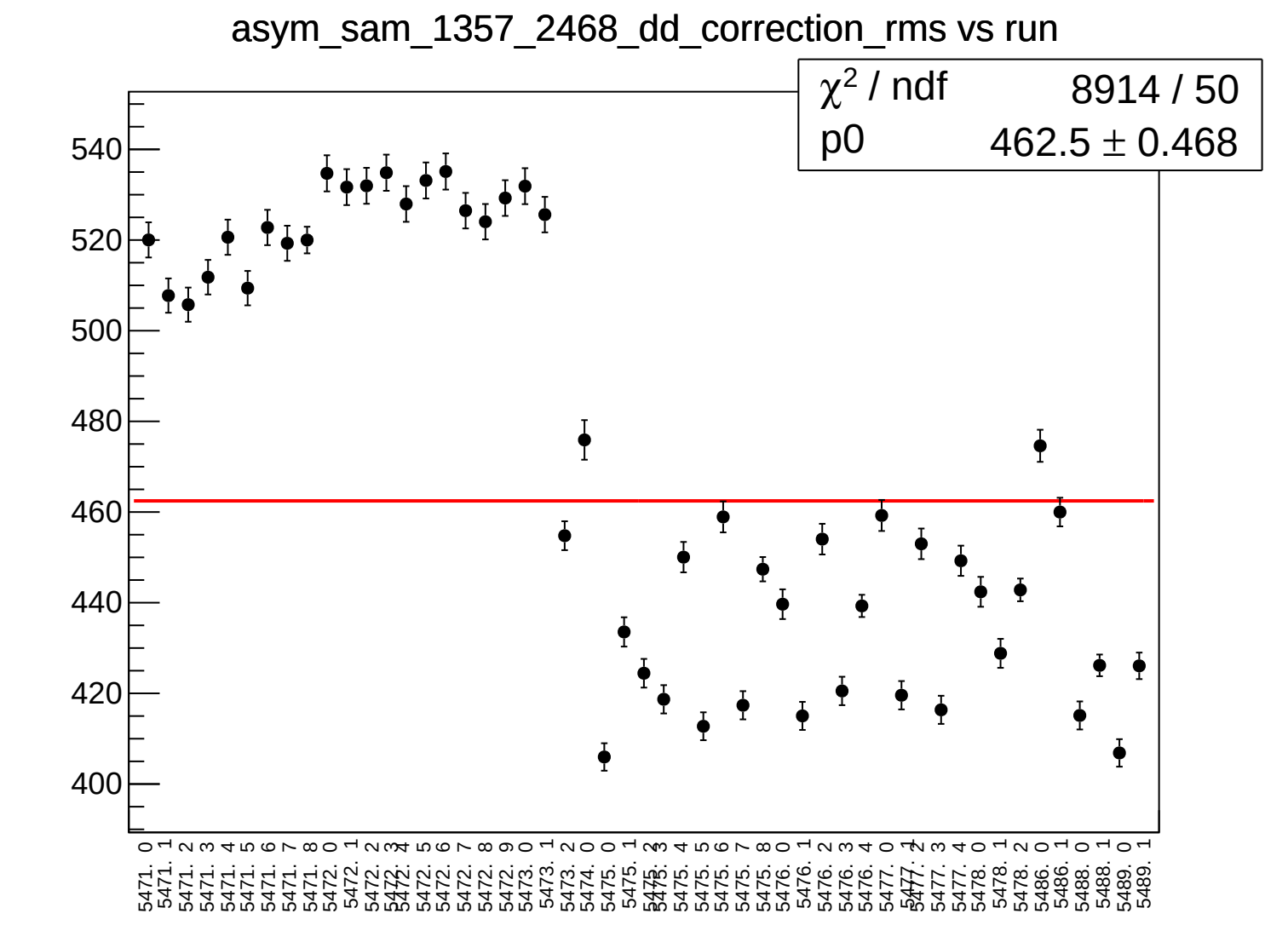

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 43.76 / 50
p0 61.72 ± 59.8
pull
Entries 51
Mean −4.011
Std Dev 22.17

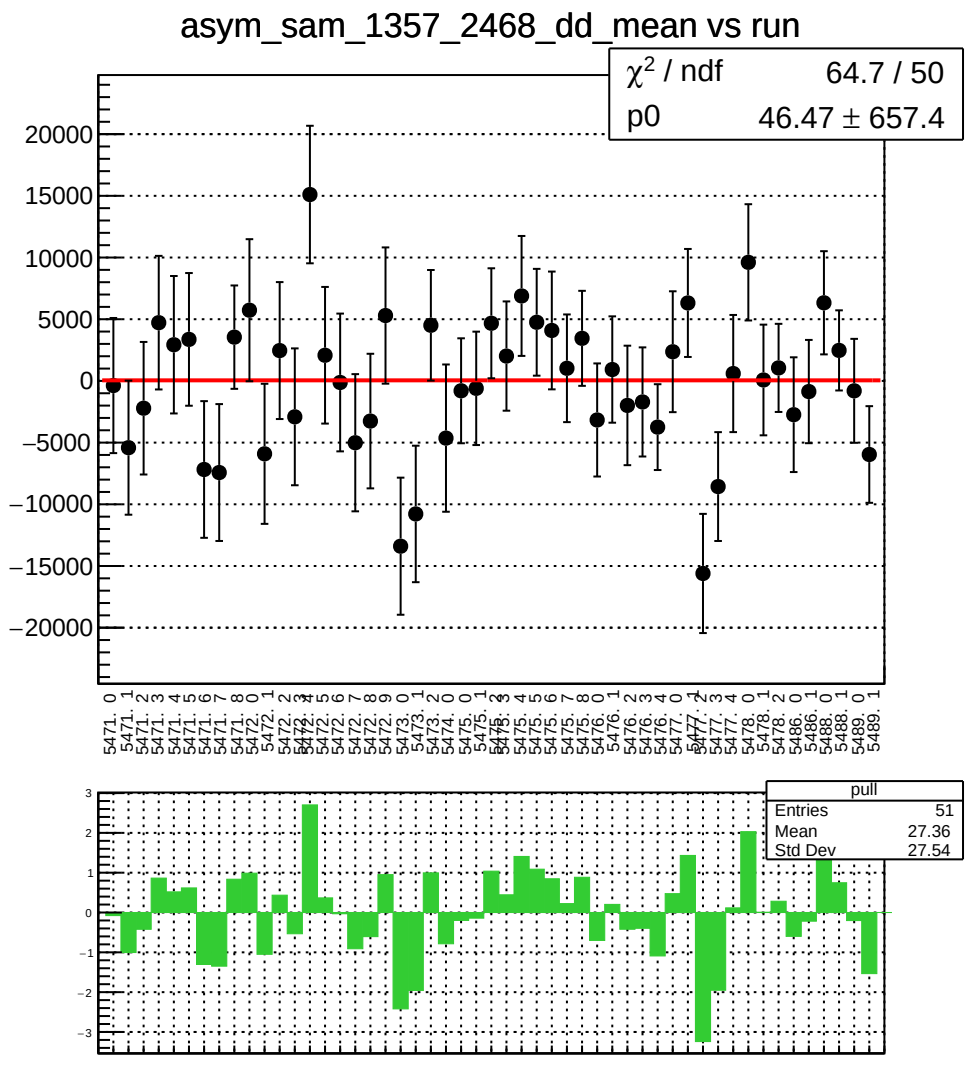

pull1D
Entries 51
Mean 0.07863
Std Dev 0.923

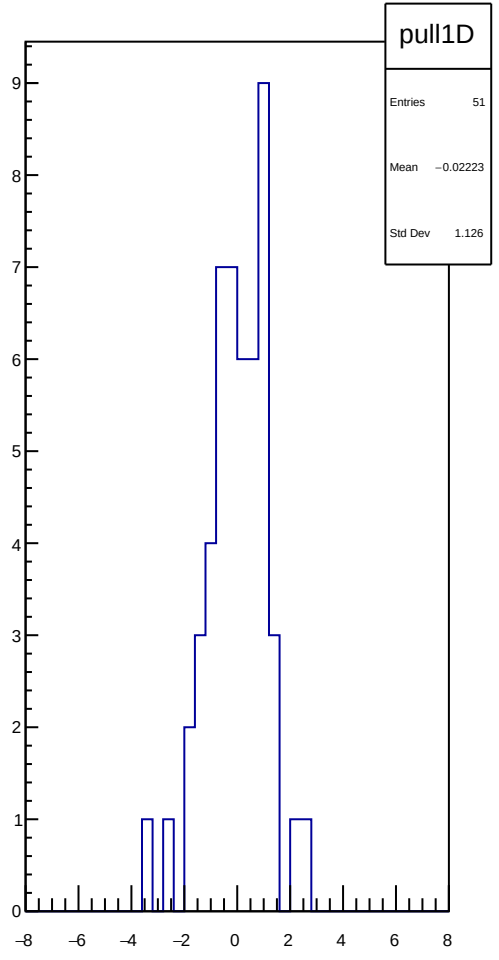

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.776e+04 / 50
p0 40.94 ± 0.04228
70
65
60
55
50
45
40
35
30
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

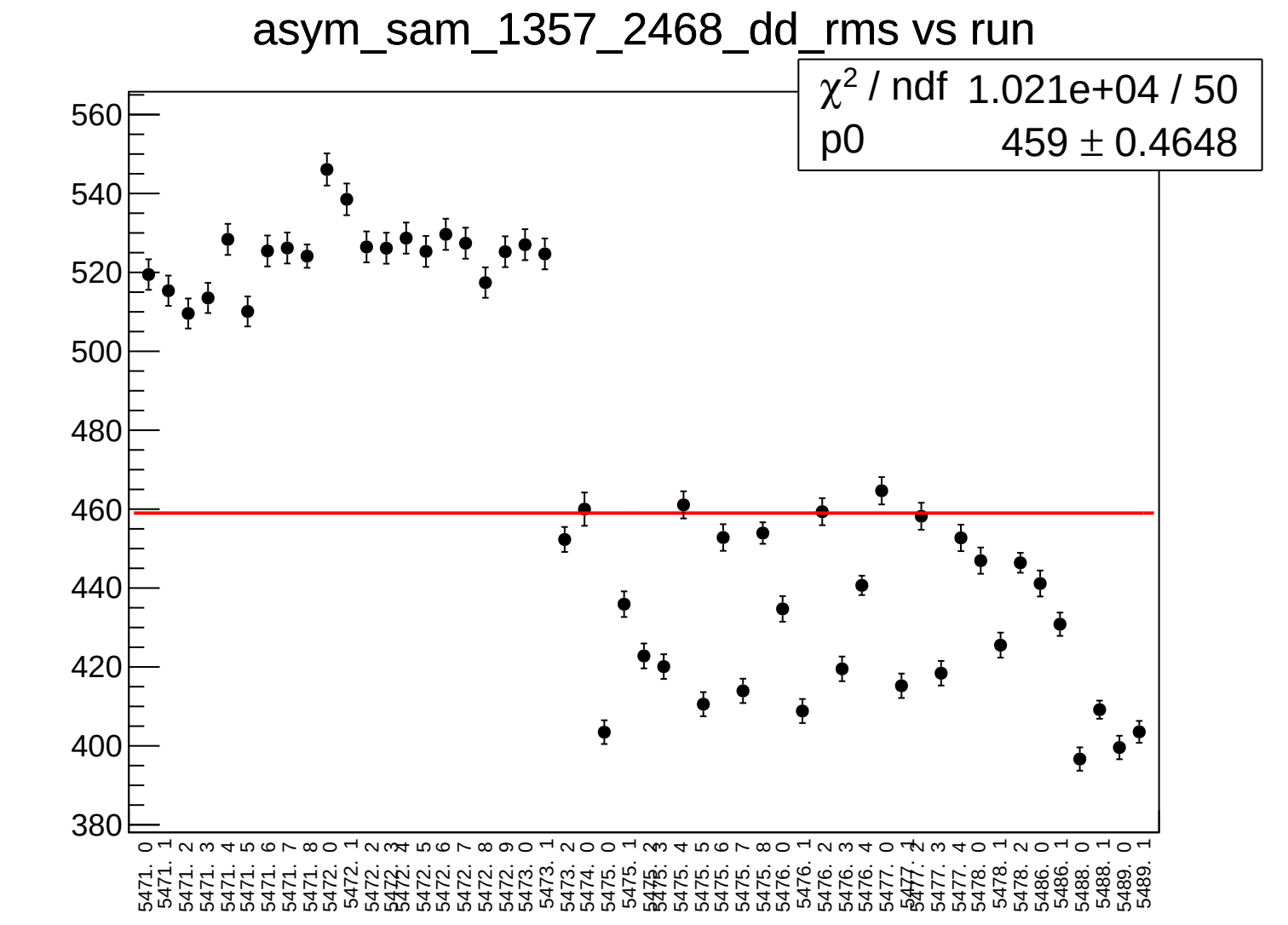

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 65.04 / 50
p0 30.55 ± 661.9
pull
Entries 51
Mean 14.21
Std Dev 24.62

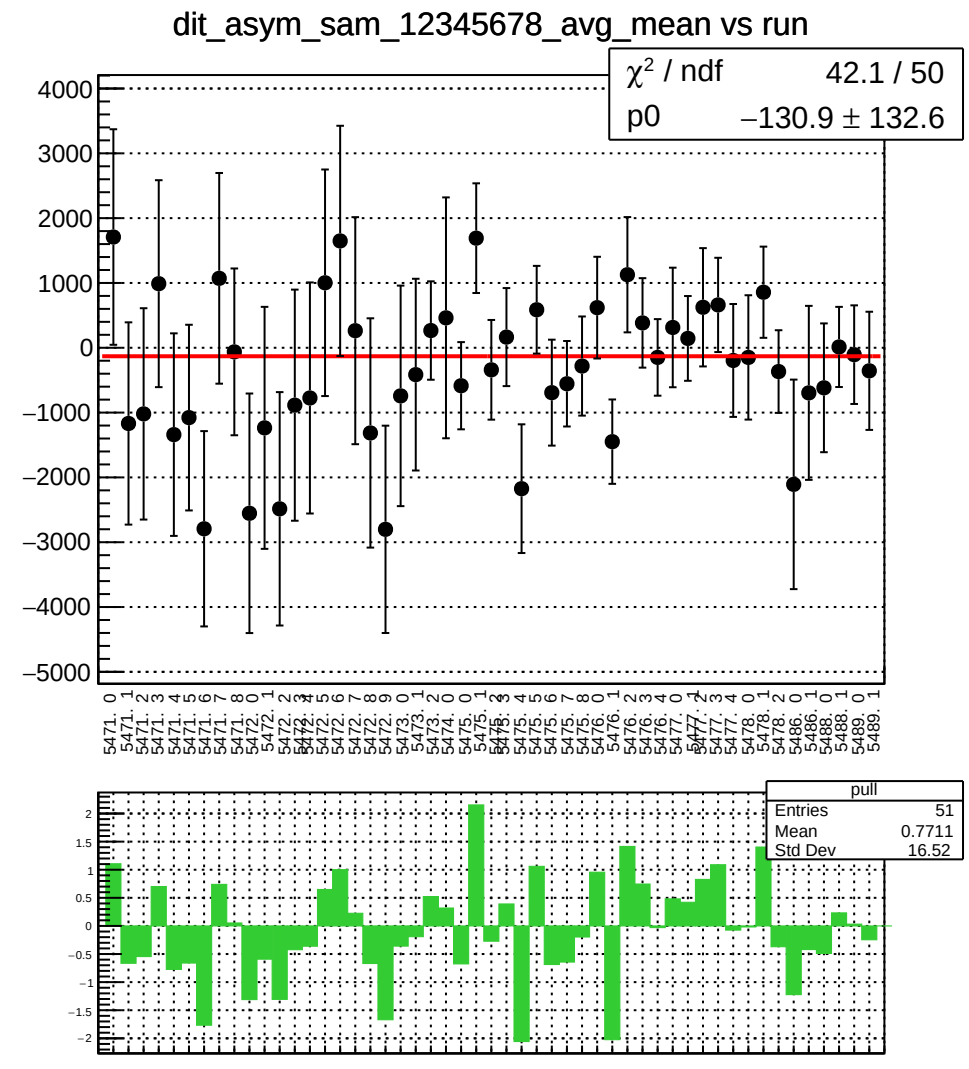

pull1D
Entries 51
Mean 0.02681
Std Dev 1.129

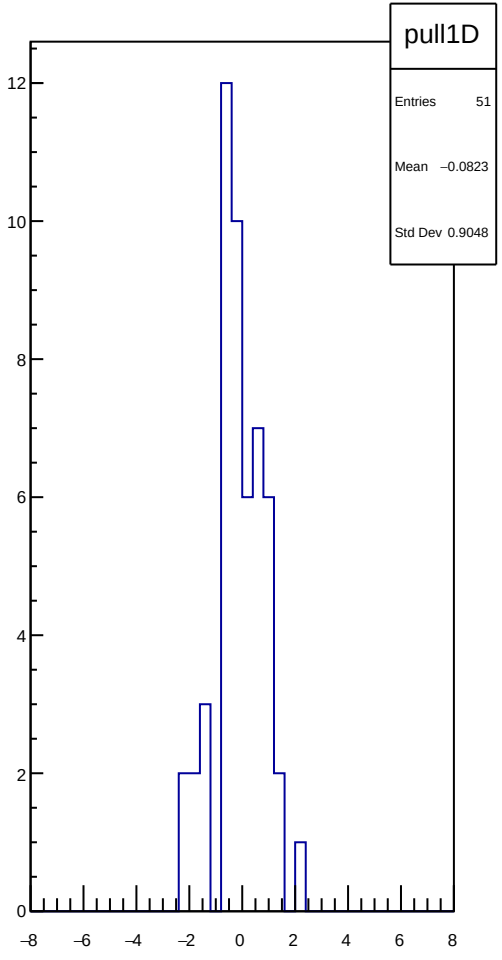

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 8914 / 50
p0 462.5 ± 0.468
540
520
500
480
460
440
420
400
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

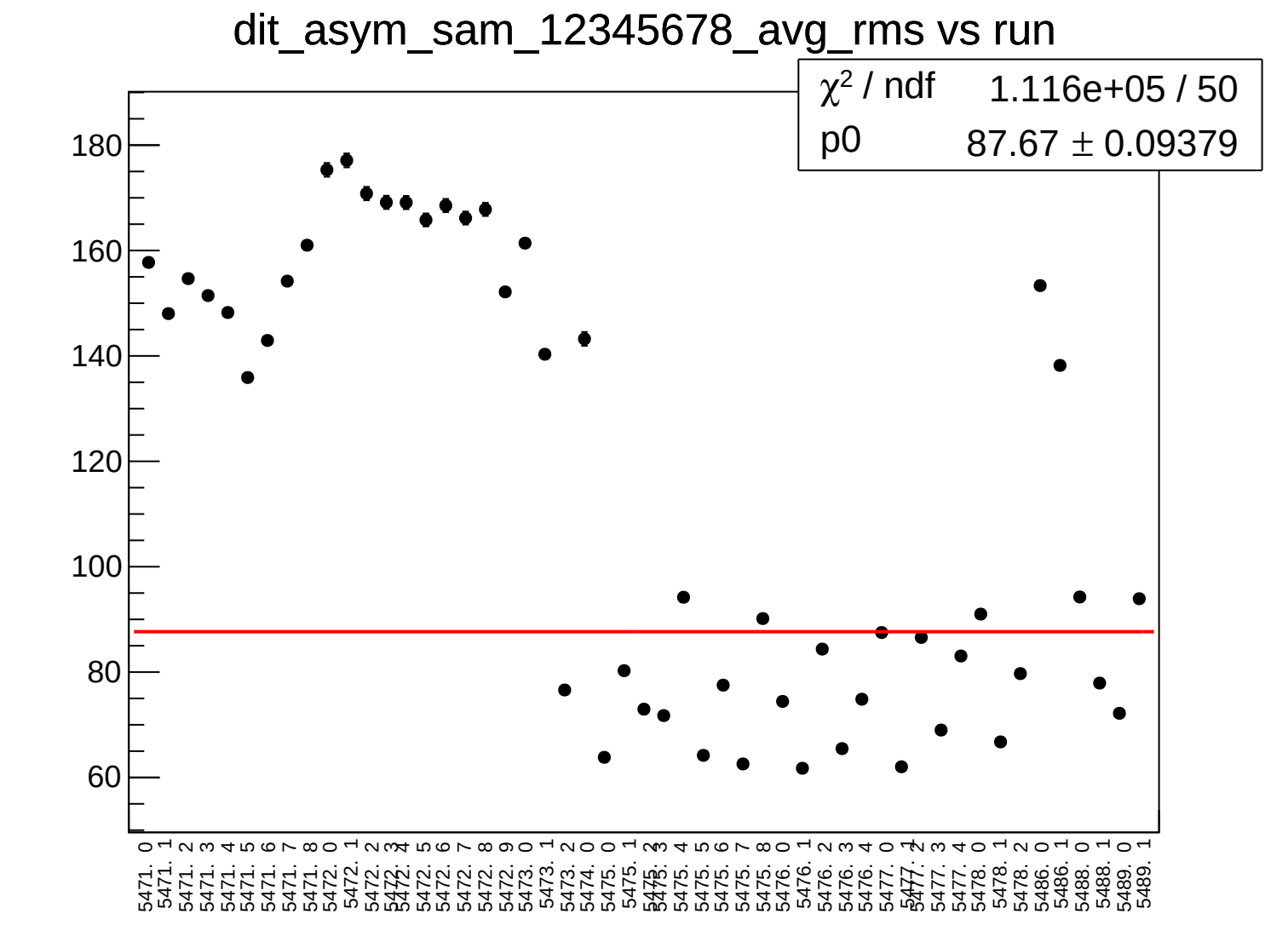

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 64.7 / 50
p0 46.47 ± 657.4
pull
Entries 51
Mean 27.36
Std Dev 27.54


pull1D
Entries 51
Mean −0.02223
Std Dev 1.126


asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.021e+04 / 50
p0 459 ± 0.4648
560
540
520
500
480
460
440
420
400
380
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 42.1 / 50
p0 −130.9 ± 132.6
pull
Entries 51
Mean 0.7711
Std Dev 16.52


pull1D
Entries 51
Mean −0.0823
Std Dev 0.9048


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.116e+05 / 50
p0 87.67 ± 0.09379
180
160
140
120
100
80
60
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
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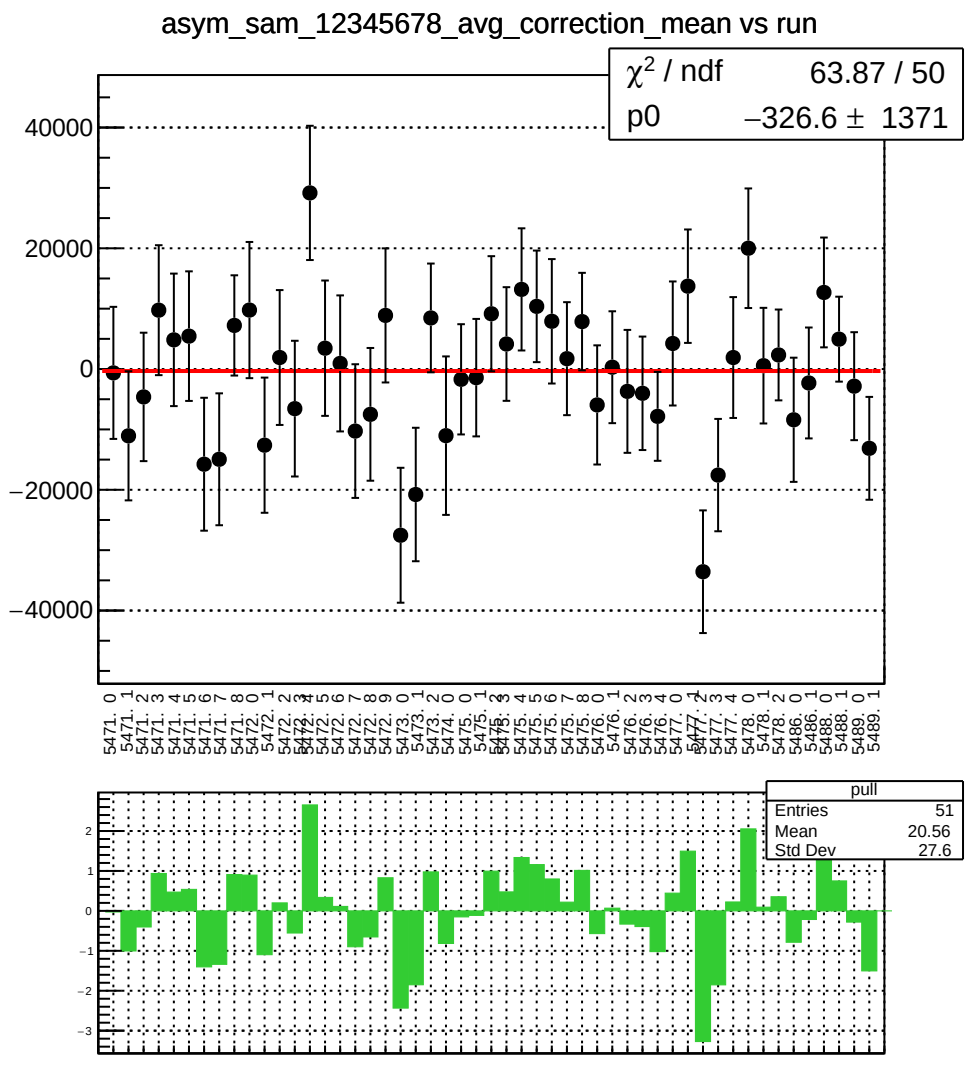
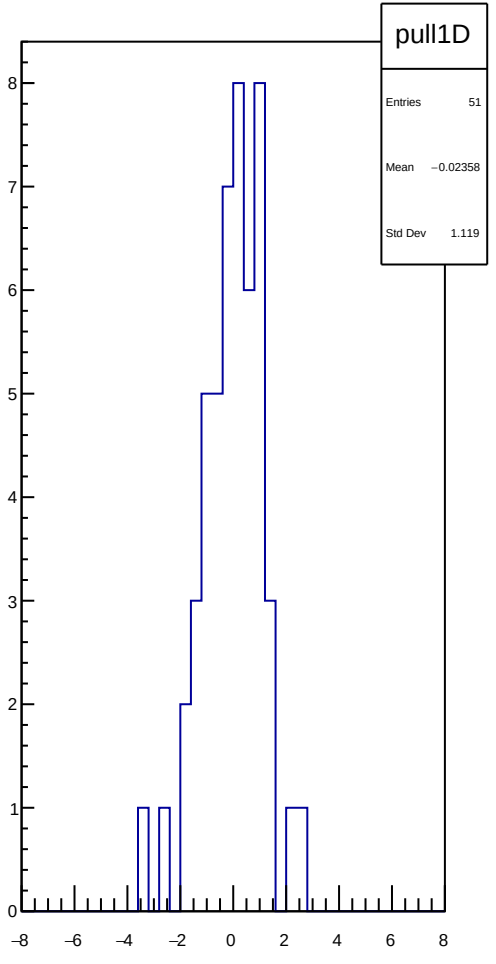
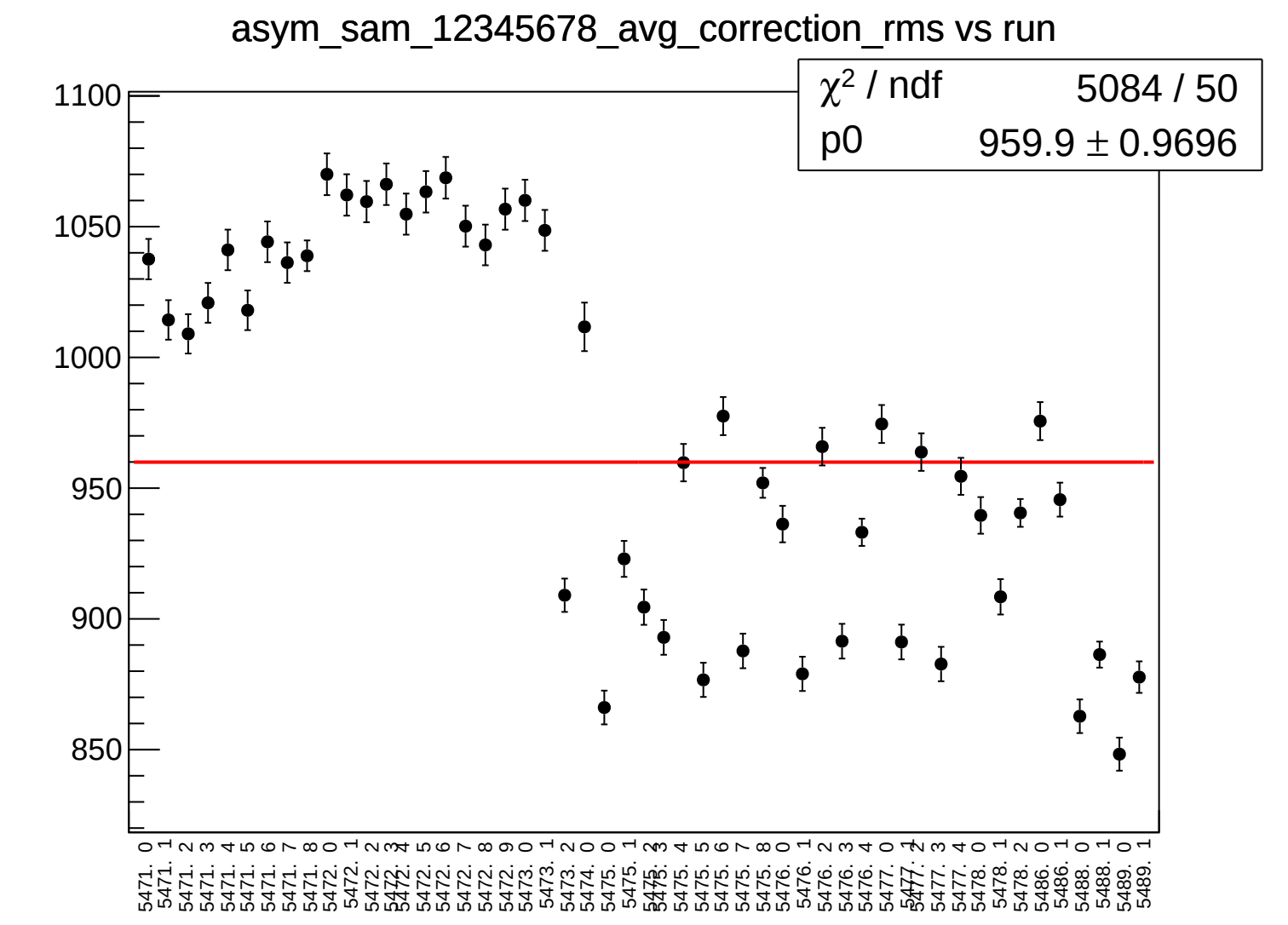
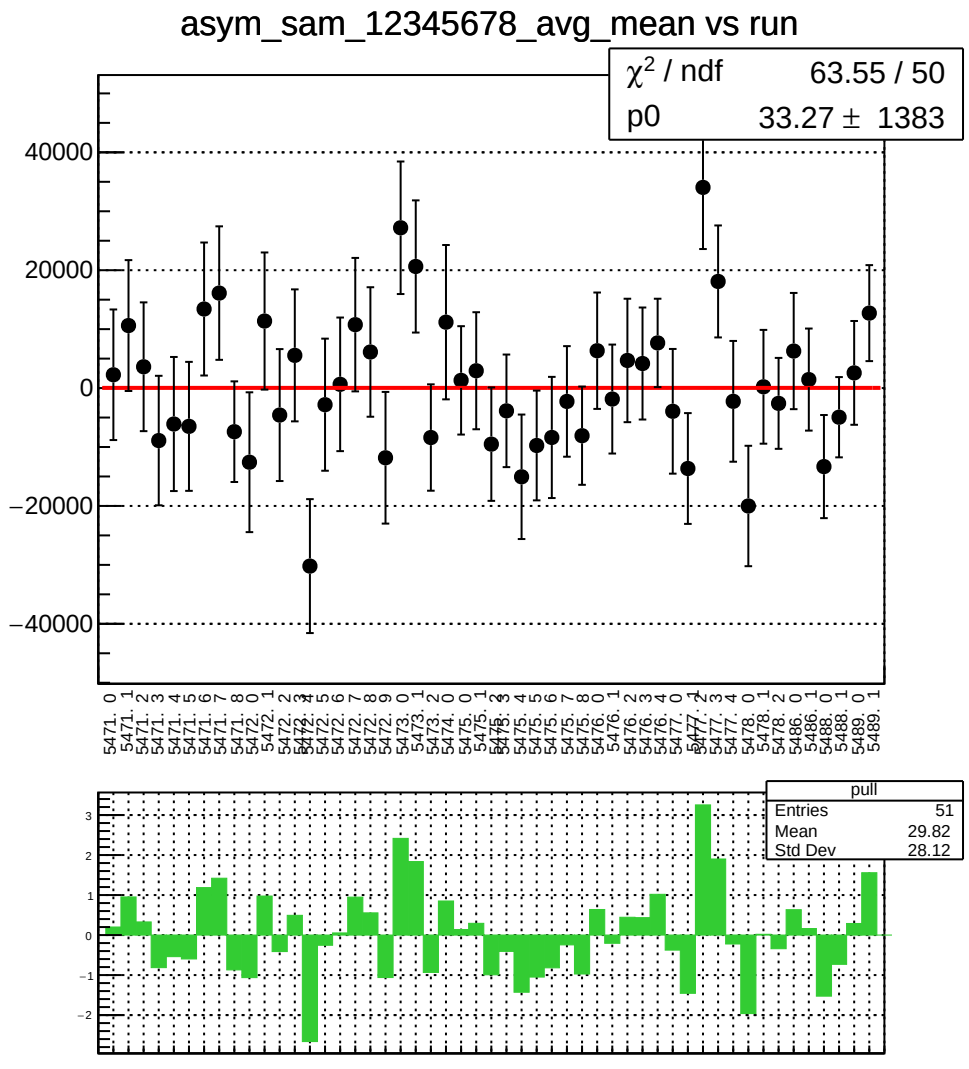
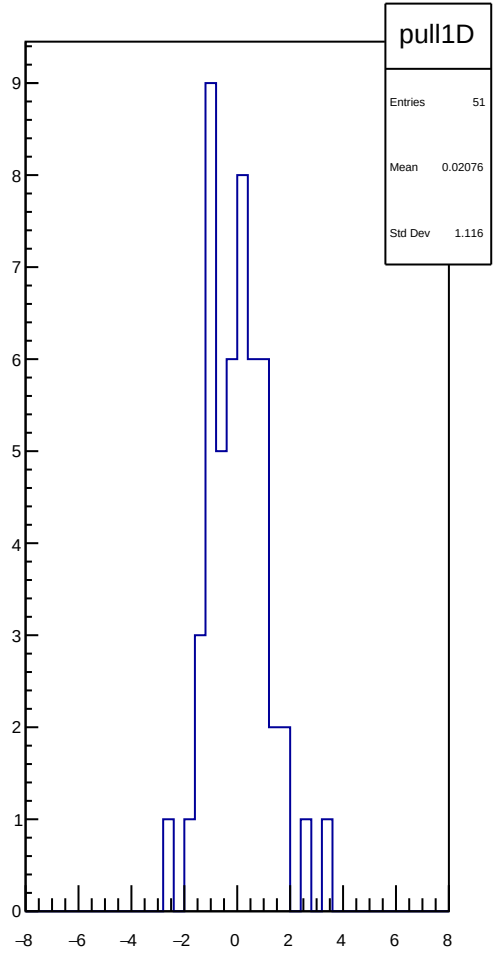
5476. 2
5476. 3
5476. 4
5477. 0
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1

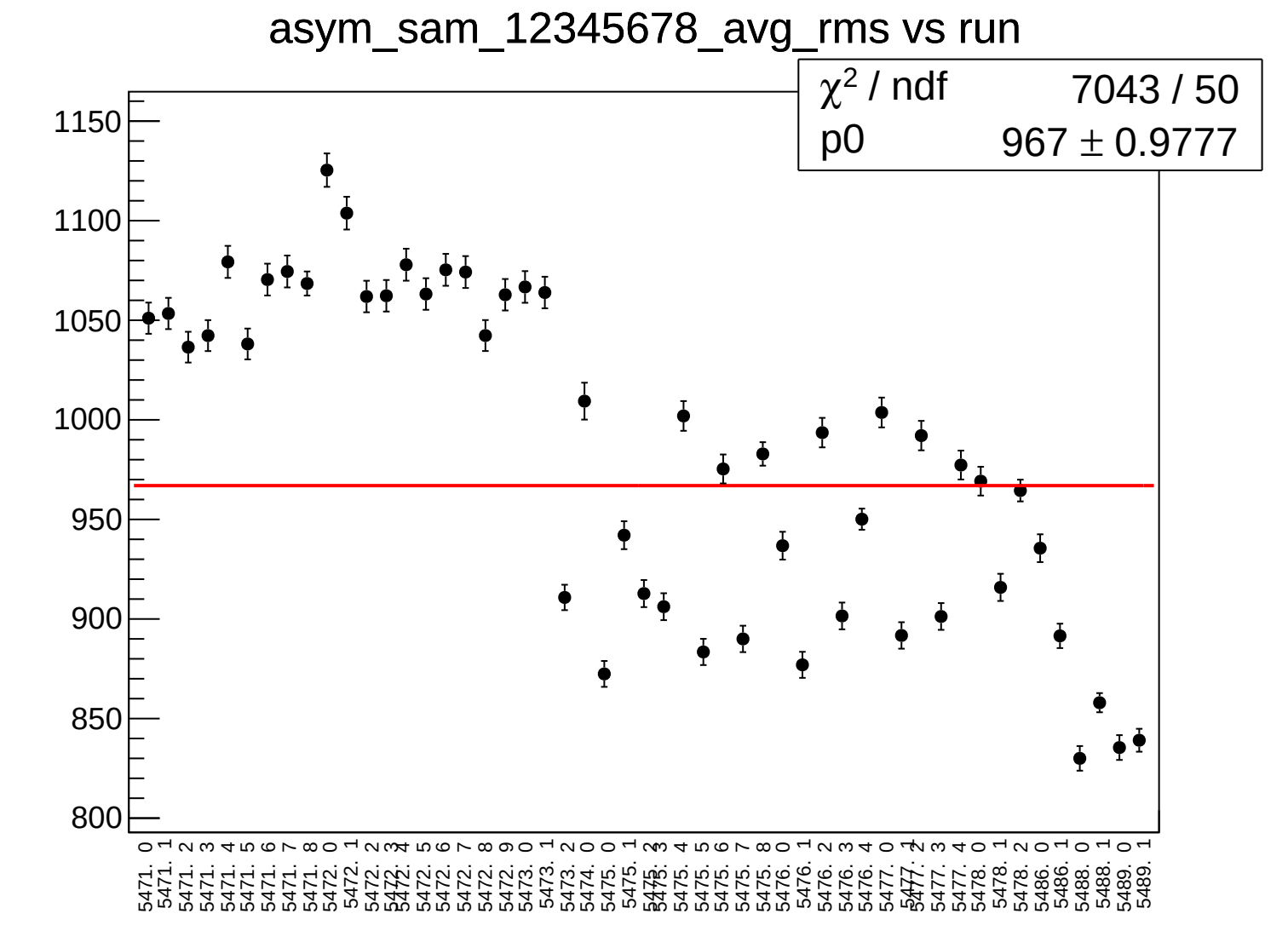

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 63.87 / 50
p0 −326.6 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 20.56
Std Dev 27.6
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.02358
Std Dev 1.119
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 5084 / 50
p0 959.9 ± 0.9696
1100
1050
1000
950
900
850
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 2
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1


asym_sam_12345678_avg_mean vs run
χ² / ndf 63.55 / 50
p0 33.27 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 29.82
Std Dev 28.12


pull1D
Entries 51
Mean 0.02076
Std Dev 1.116


asym_sam_12345678_avg_rms vs run
χ² / ndf 7043 / 50
p0 967 ± 0.9777
1150
1100
1050
1000
950
900
850
800
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
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5476. 2
5476. 3
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5478. 1
5478. 2
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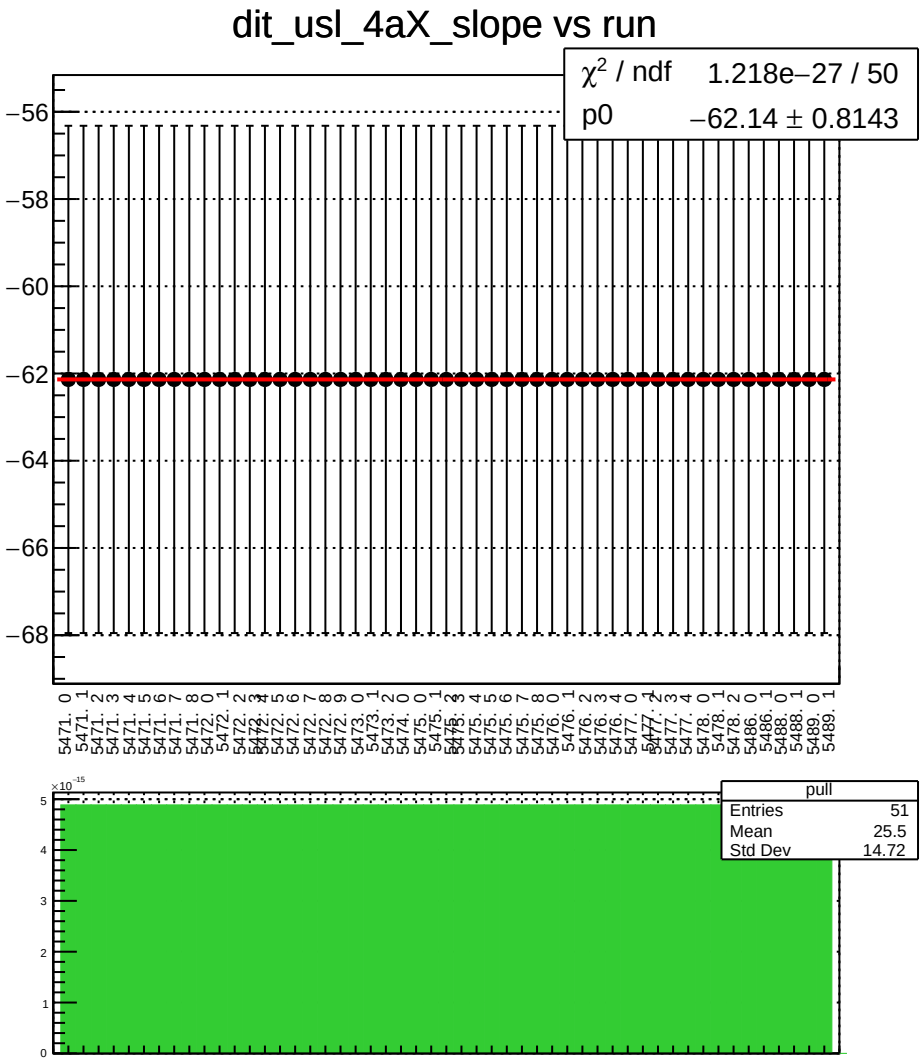
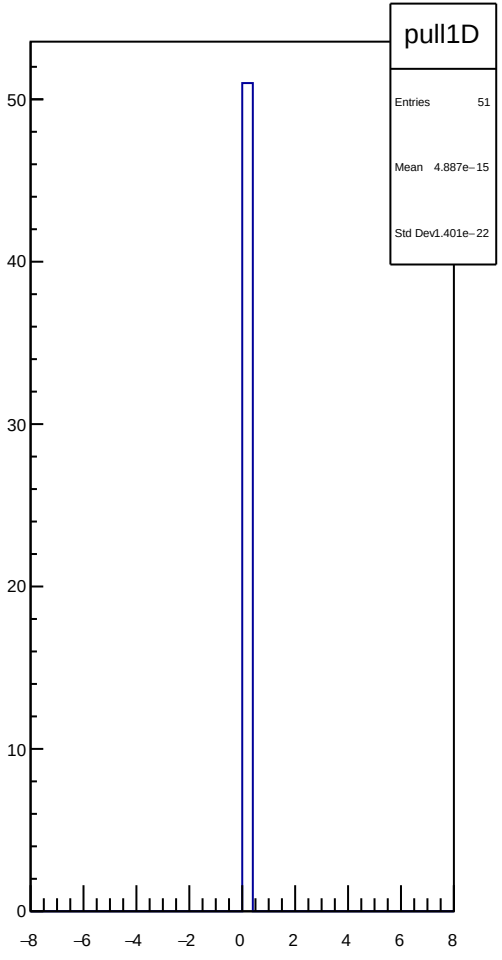
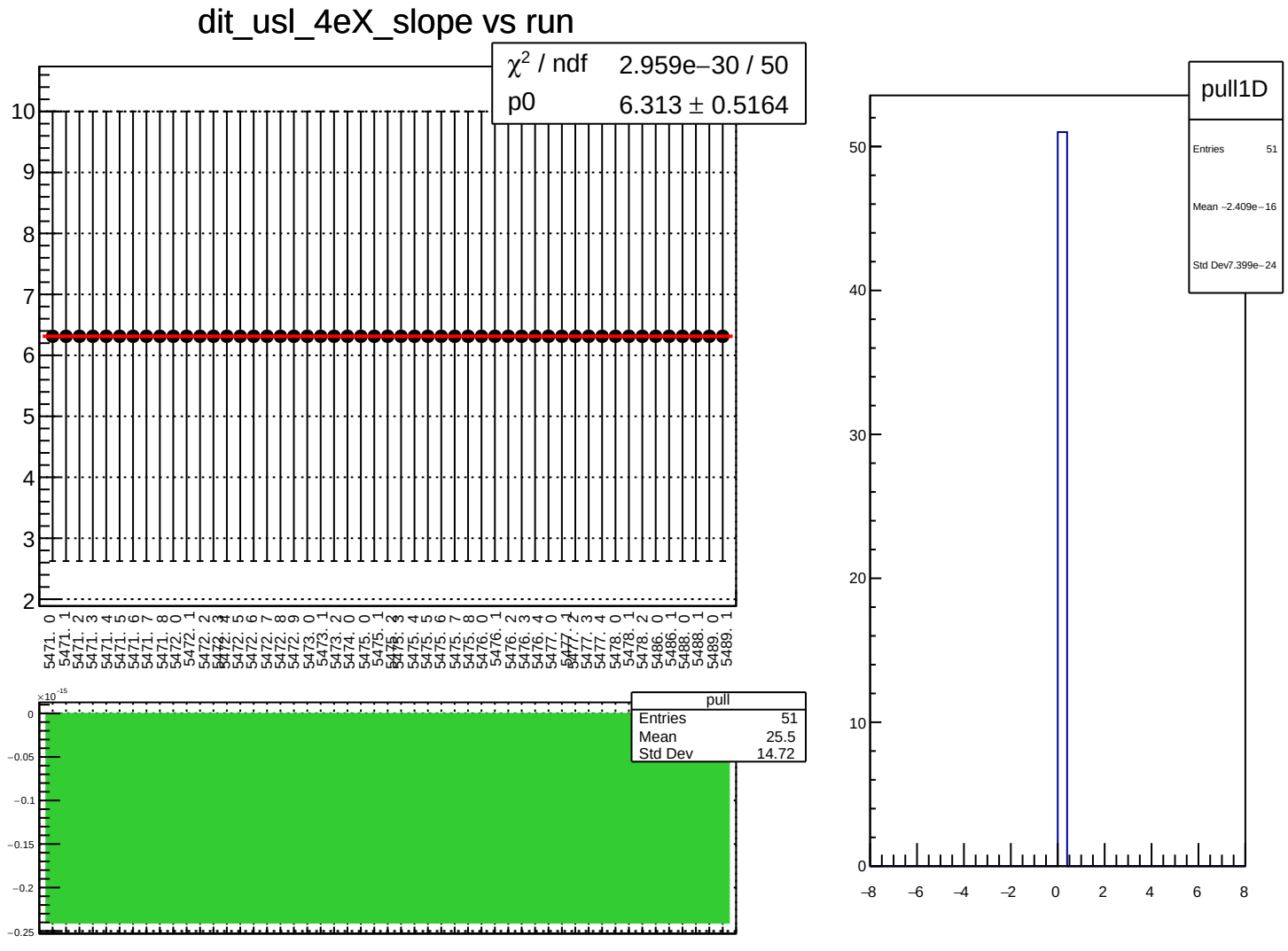
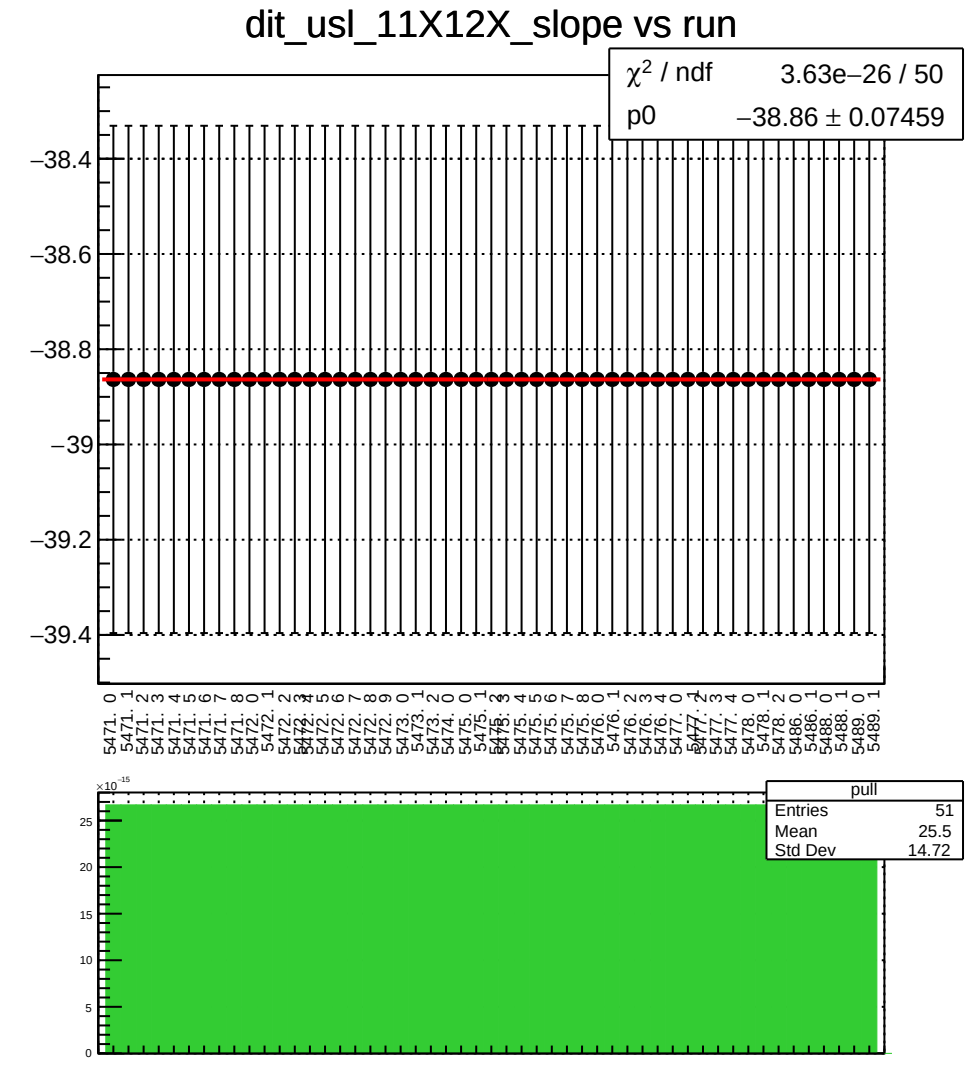
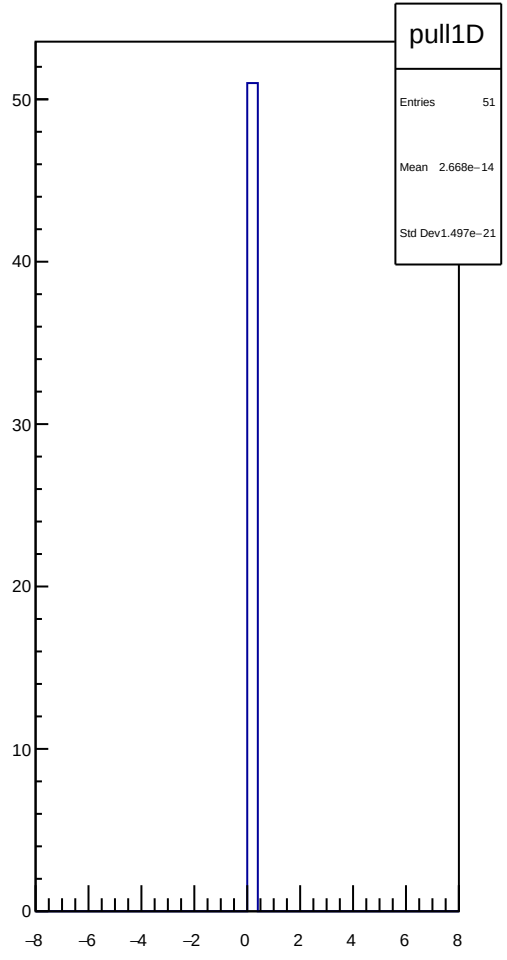
5488. 0
5488. 1
5489. 0
5489. 1

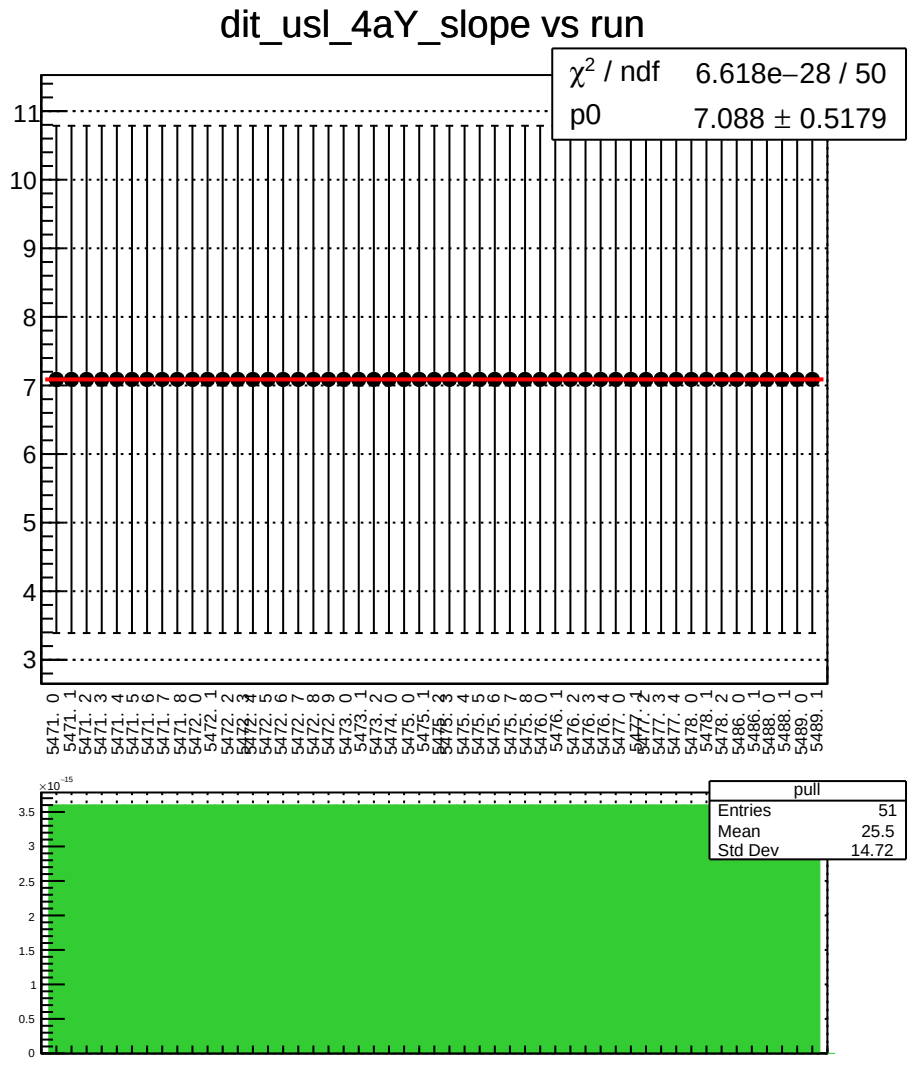

dit_usl_4aX_slope vs run
χ² / ndf 1.218e−27 / 50
p0 −62.14 ± 0.8143
−56
−58
−60
−62
−64
−66
−68
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
5
4
3
2
1
0

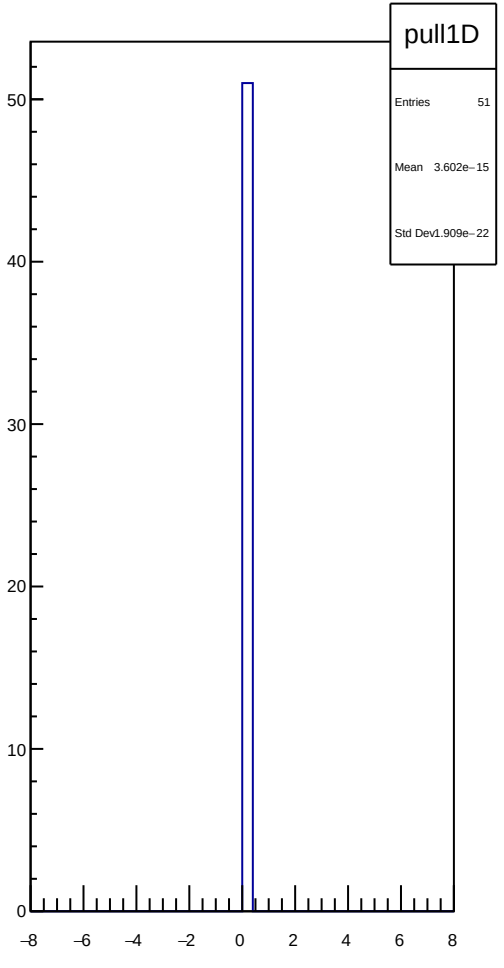

pull1D
Entries 51
Mean 4.887e−15
Std Dev1.401e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

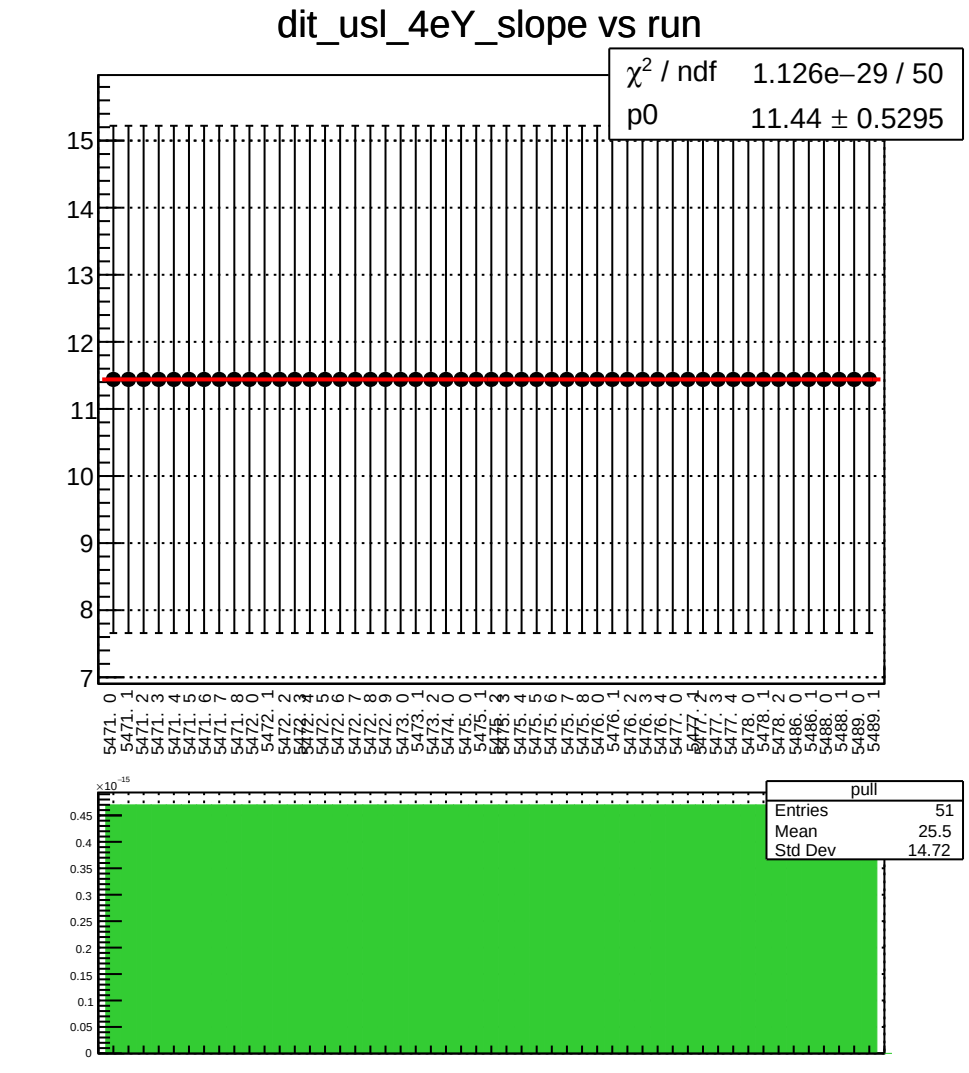

dit_usl_4eX_slope vs run
χ² / ndf 2.959e−30 / 50
p0 6.313 ± 0.5164
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −2.409e−16
Std Dev7.399e−24

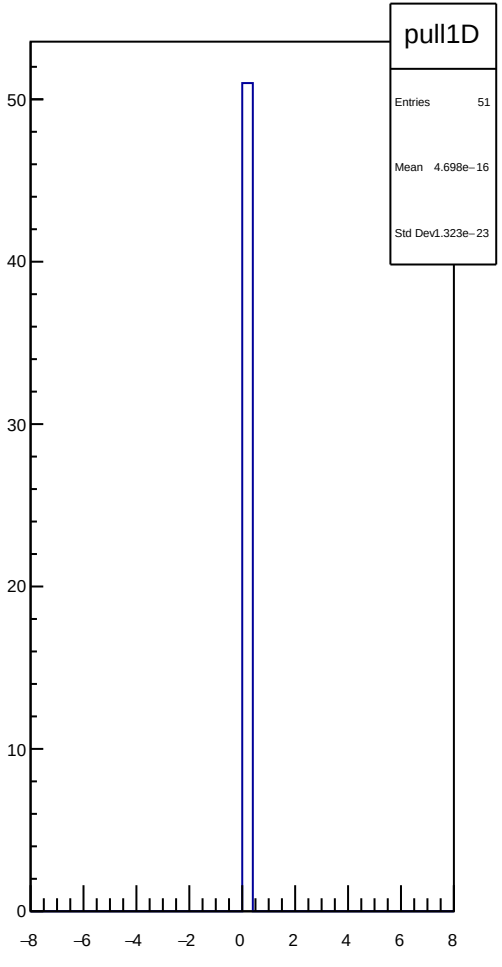

dit_usl_11X12X_slope vs run
χ² / ndf 3.63e−26 / 50
p0 −38.86 ± 0.07459
−38.4
−38.6
−38.8
−39
−39.2
−39.4
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
25
20
15
10
5
0

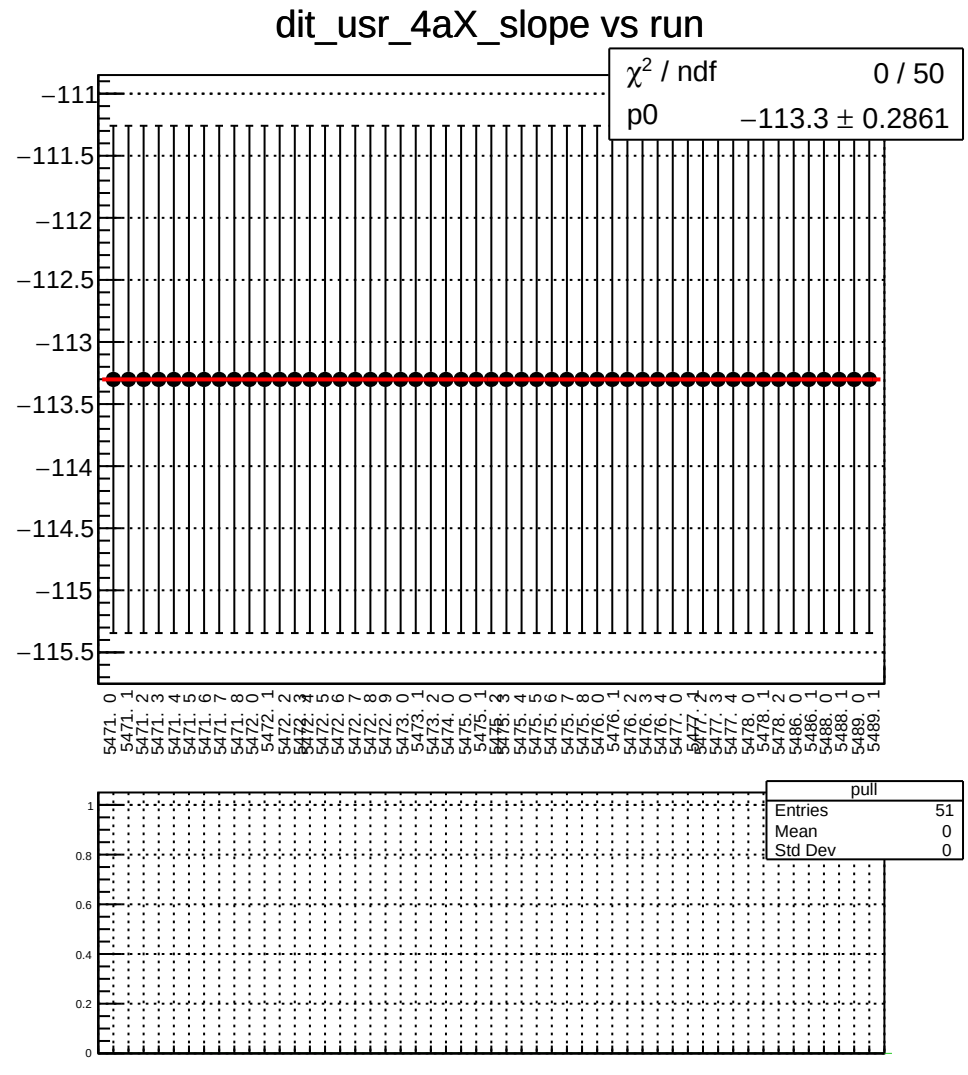

pull1D
Entries 51
Mean 2.668e−14
Std Dev1.497e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

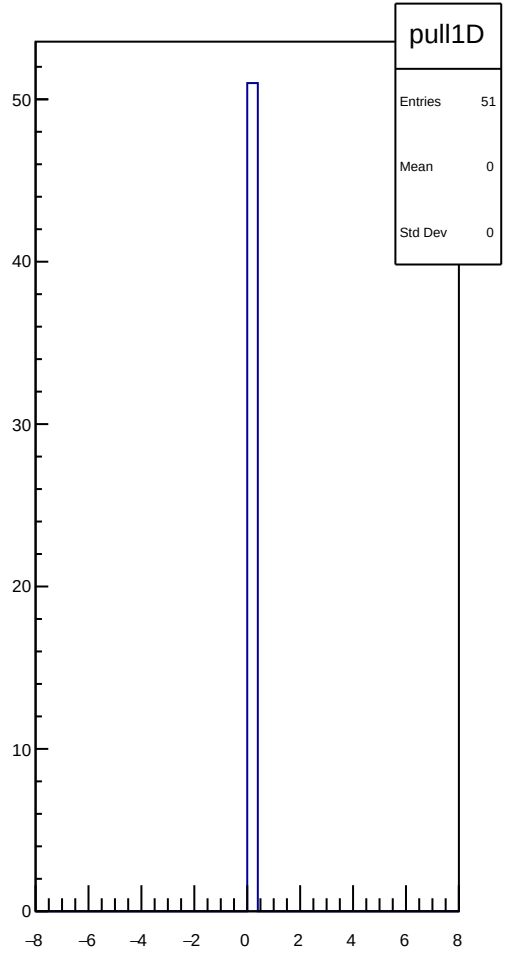

dit_usl_4aY_slope vs run
χ² / ndf 6.618e−28 / 50
p0 7.088 ± 0.5179
pull
Entries 51
Mean 25.5
Std Dev 14.72

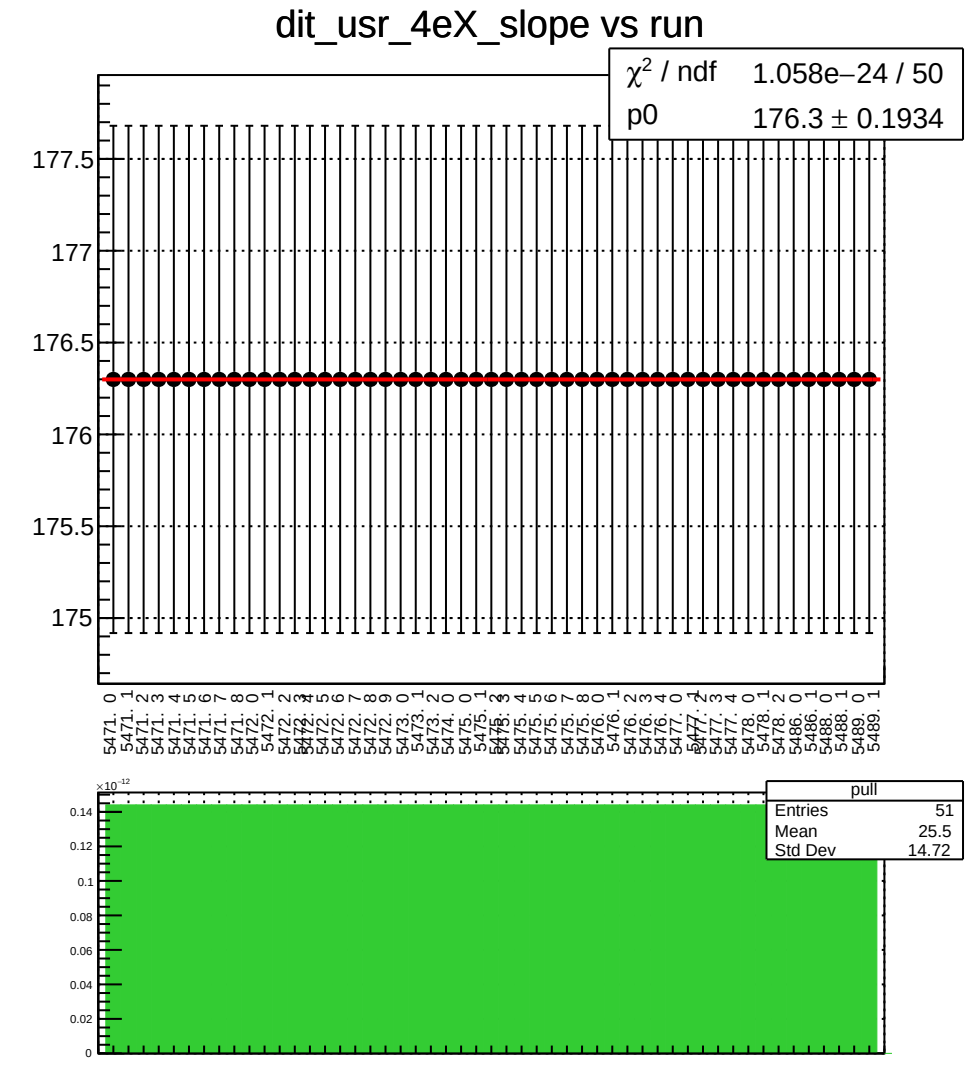

pull1D
Entries 51
Mean 3.602e−15
Std Dev1.909e−22

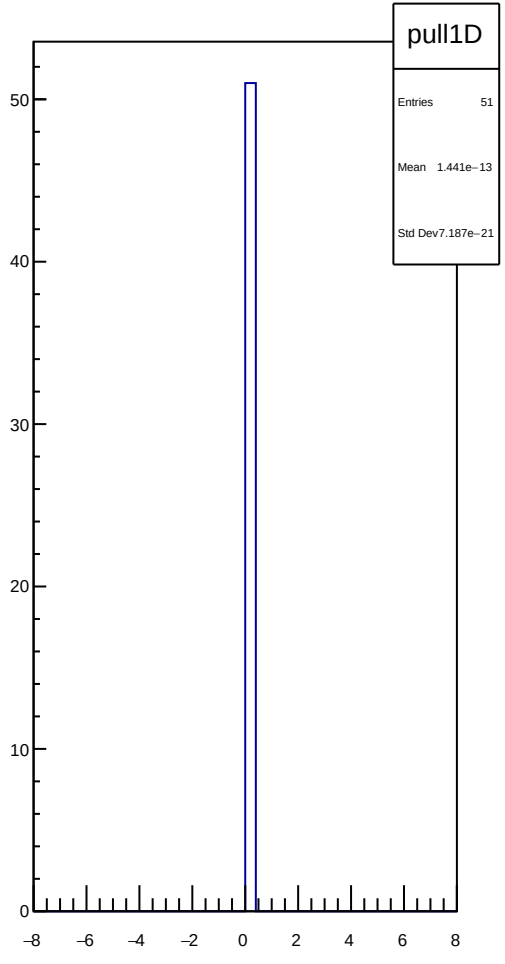

dit_usl_4eY_slope vs run
χ² / ndf 1.126e−29 / 50
p0 11.44 ± 0.5295
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵

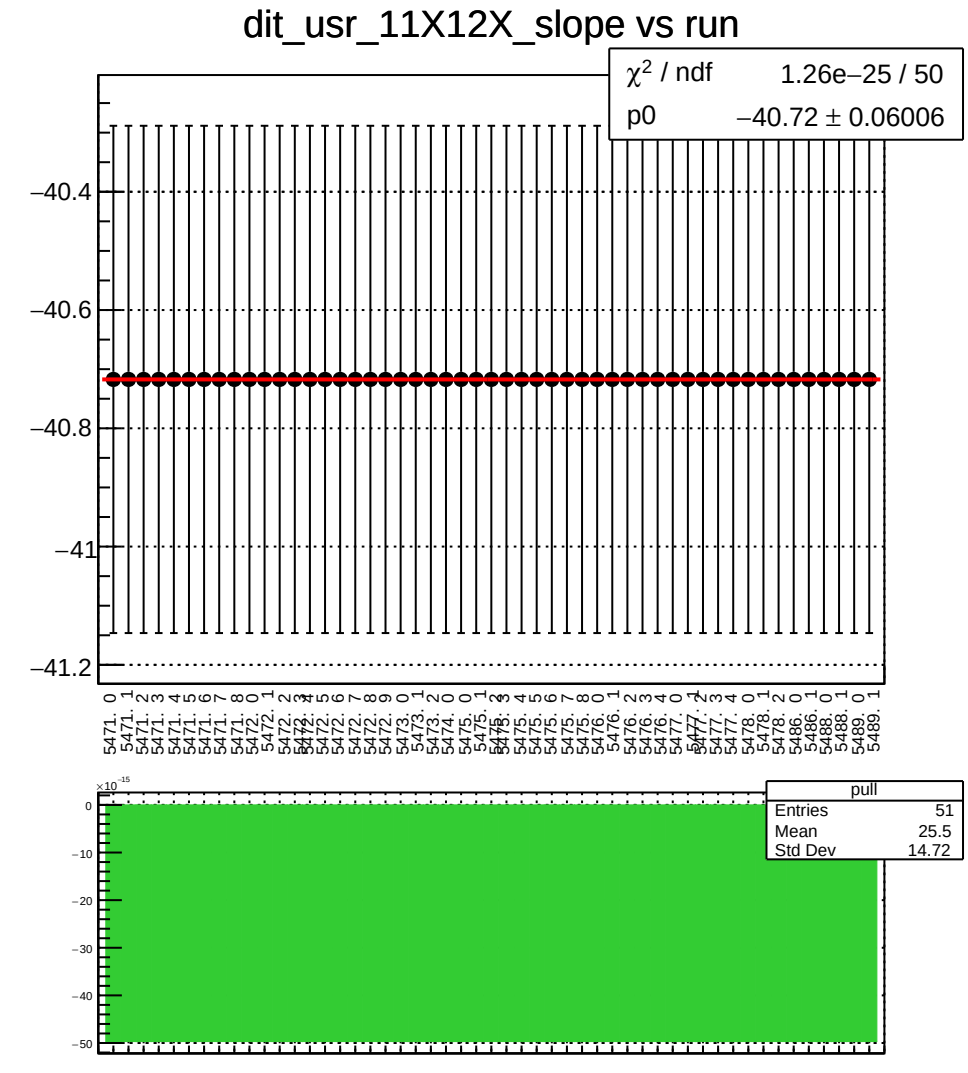

pull1D
Entries 51
Mean 4.698e−16
Std Dev 1.323e−23

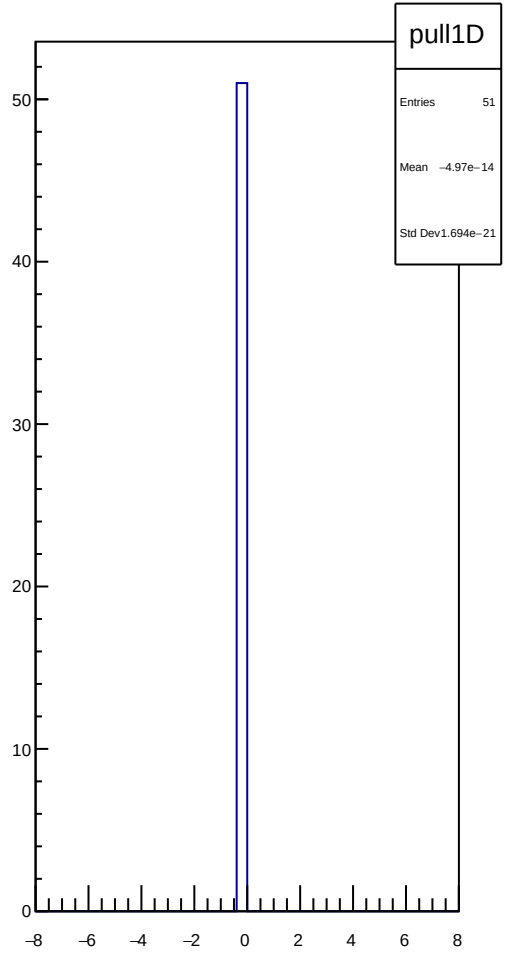

dit_usr_4aX_slope vs run
χ² / ndf 0 / 50
p0 −113.3 ± 0.2861
pull
Entries 51
Mean 0
Std Dev 0

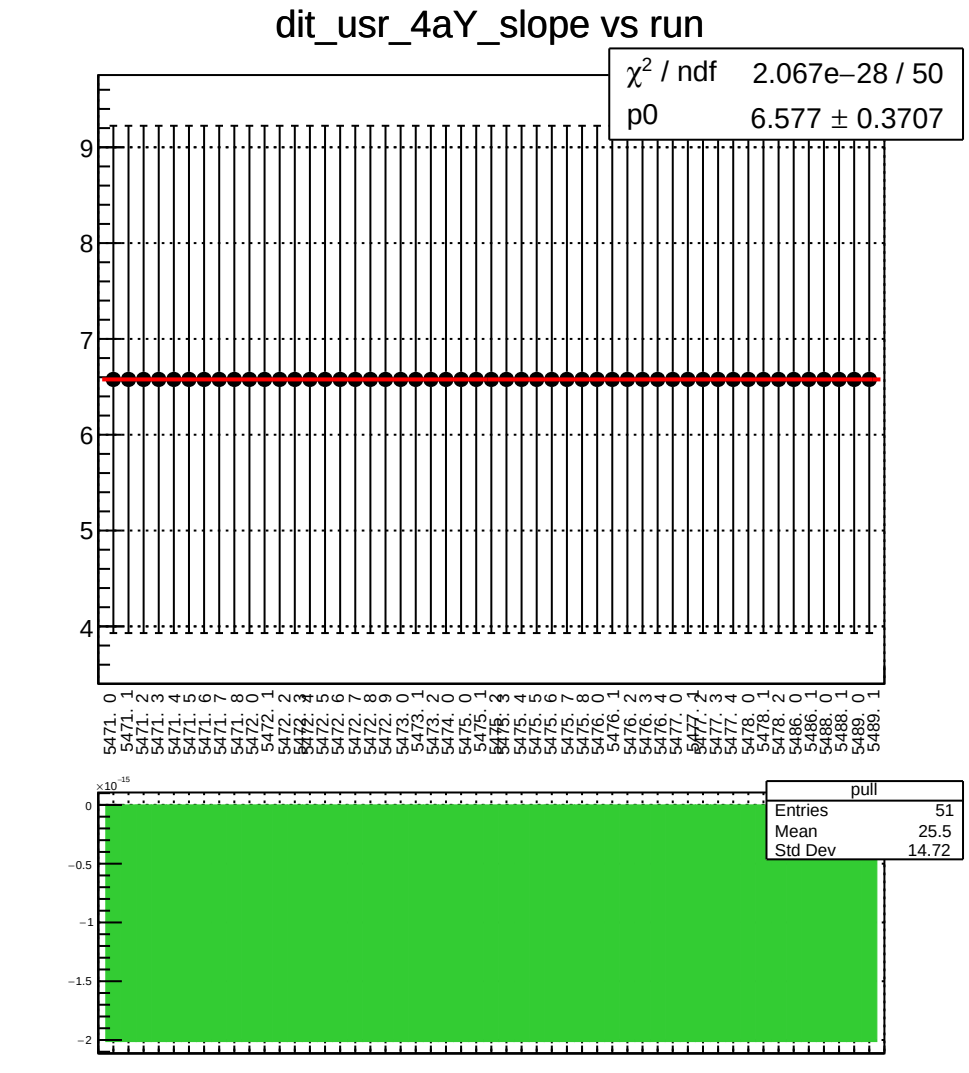

pull1D
Entries 51
Mean 0
Std Dev 0

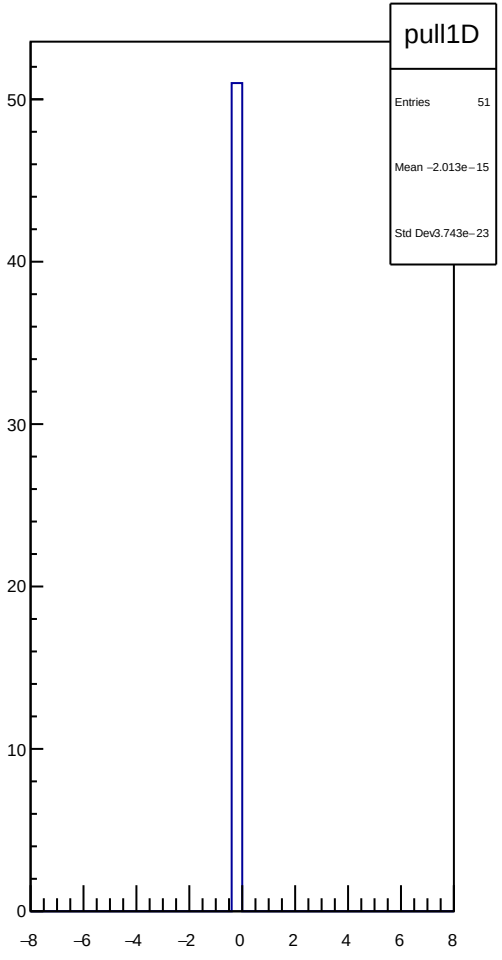

dit_usr_4eX_slope vs run
χ² / ndf 1.058e−24 / 50
p0 176.3 ± 0.1934
177.5
177
176.5
176
175.5
175
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹²
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

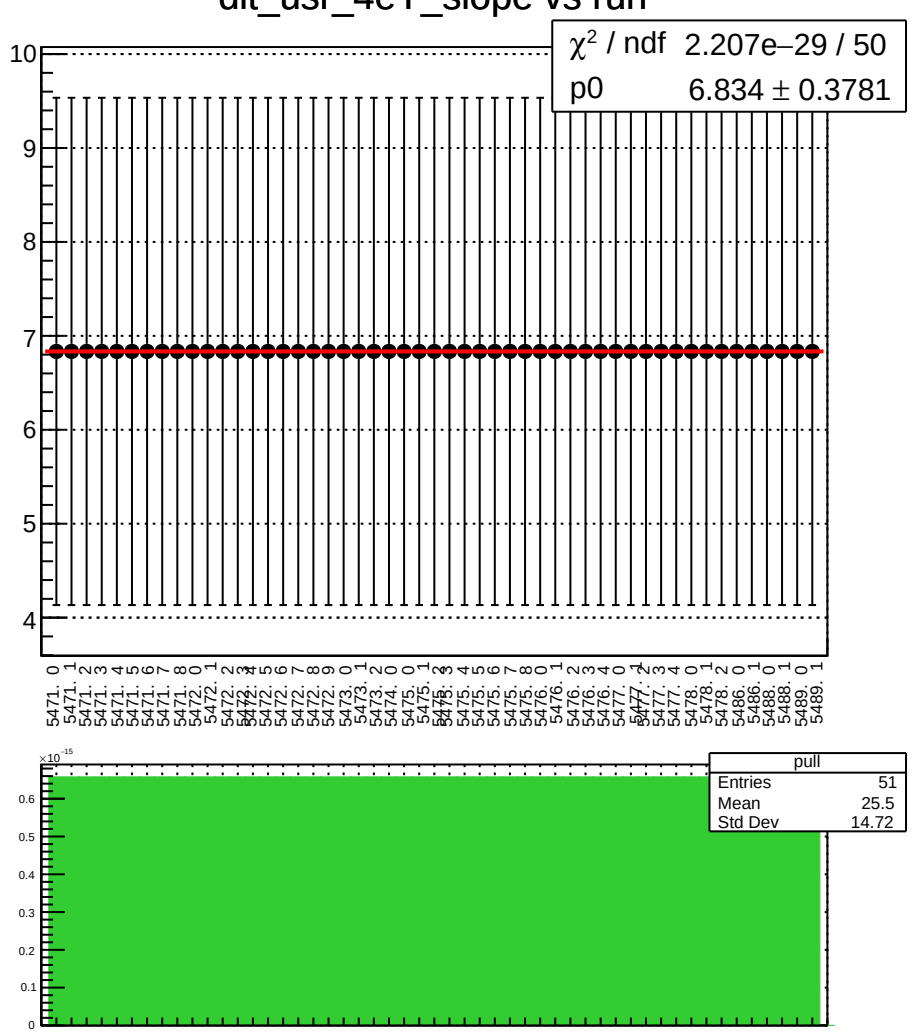

pull1D
Entries 51
Mean 1.441e−13
Std Dev7.187e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

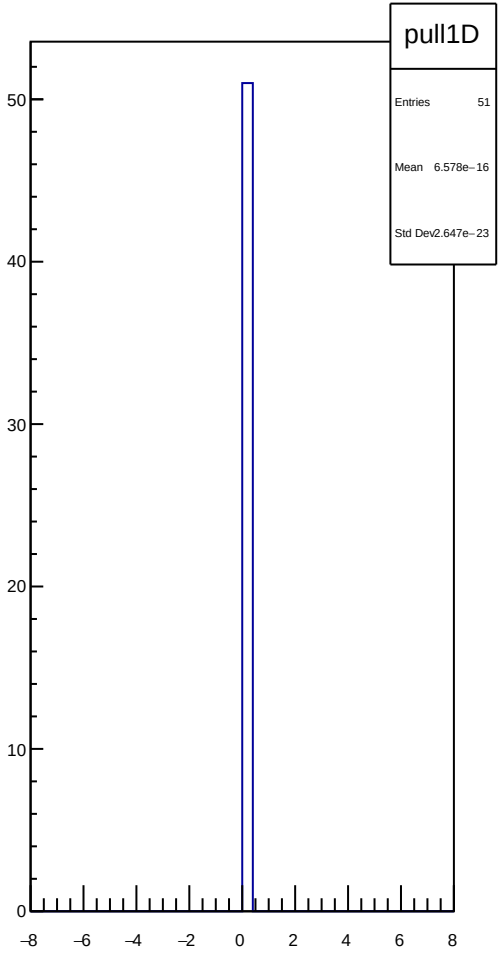

dit_usr_11X12X_slope vs run
χ² / ndf 1.26e−25 / 50
p0 −40.72 ± 0.06006
−40.4
−40.6
−40.8
−41
−41.2
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−10
−20
−30
−40
−50

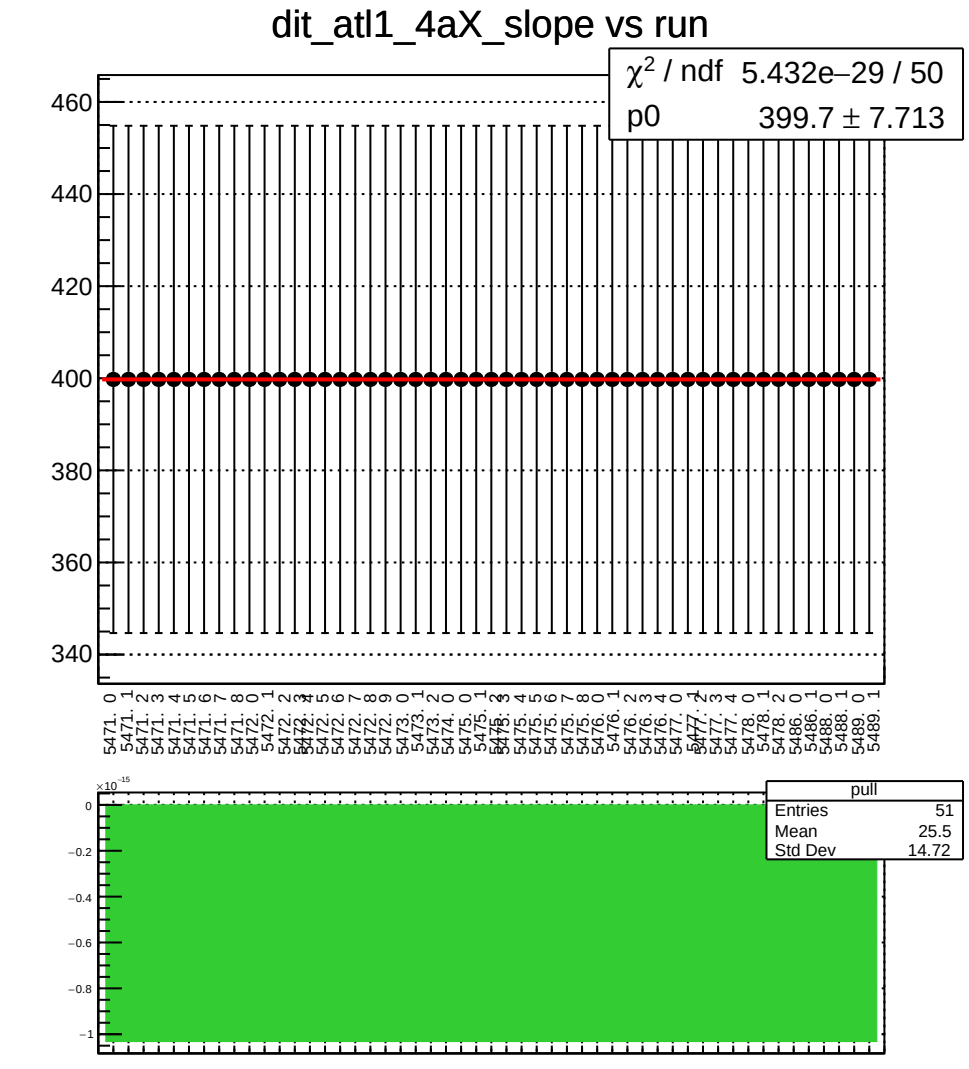

pull1D
Entries 51
Mean −4.97e−14
Std Dev 1.694e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

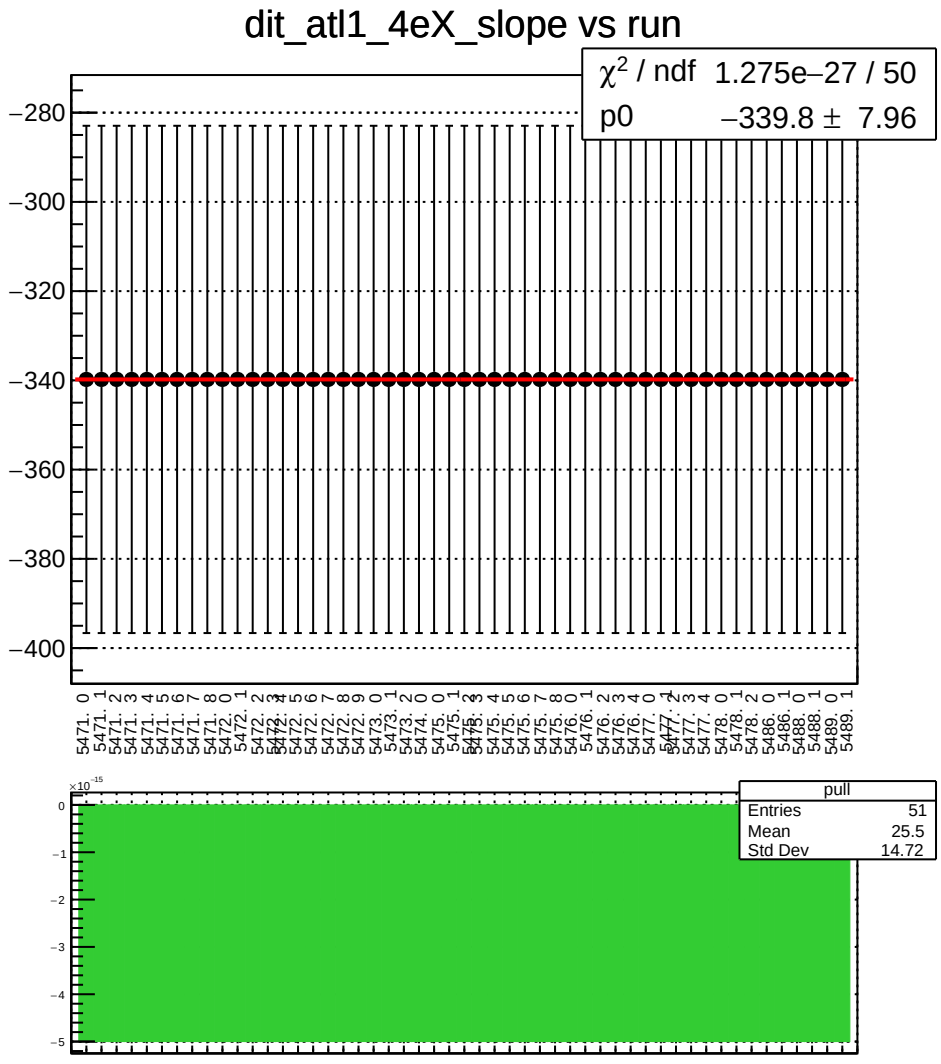

dit_usr_4aY_slope vs run
χ² / ndf 2.067e−28 / 50
p0 6.577 ± 0.3707
pull
Entries 51
Mean 25.5
Std Dev 14.72

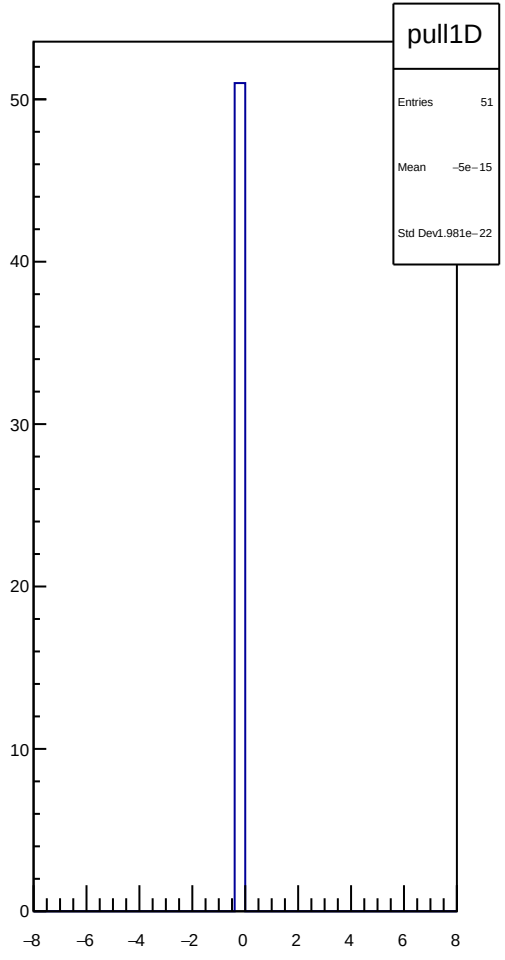

pull1D
Entries 51
Mean −2.013e−15
Std Dev 3.743e−23

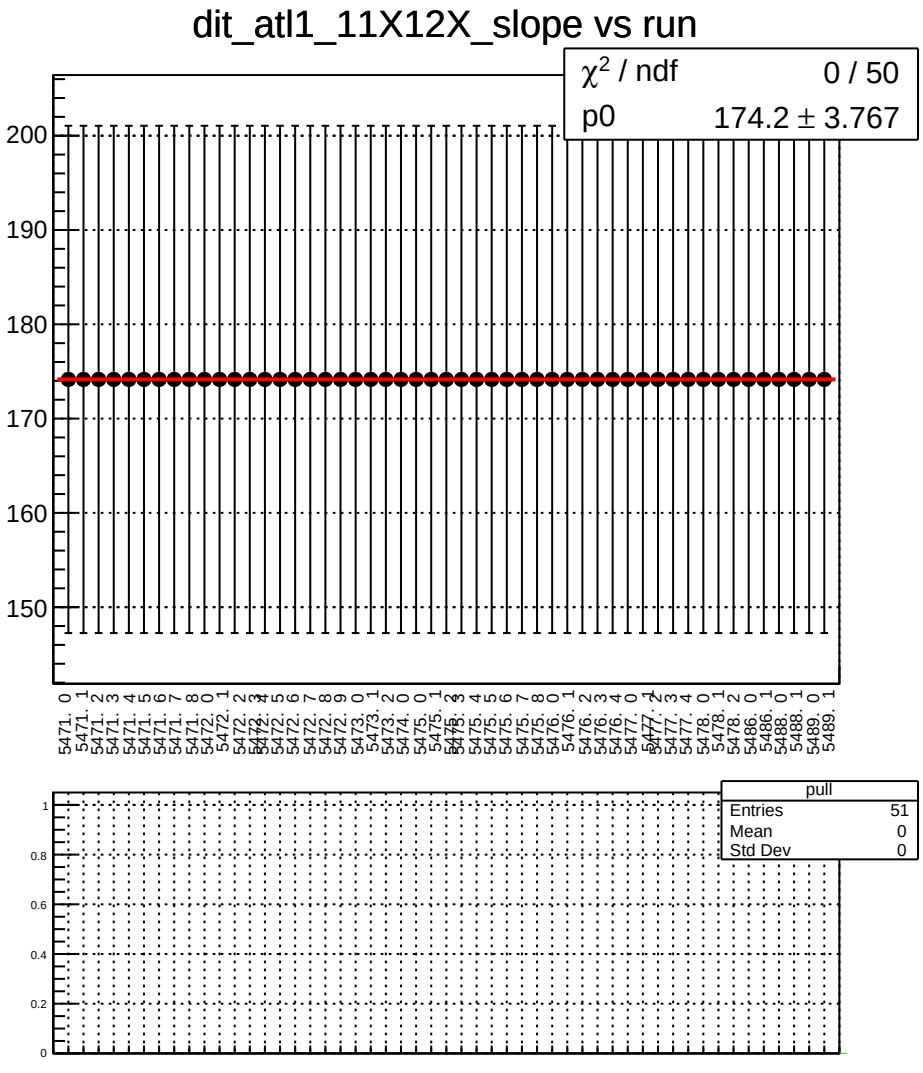

dit_usr_4eY_slope vs run
χ² / ndf 2.207e−29 / 50
p0 6.834 ± 0.3781
pull
Entries 51
Mean 25.5
Std Dev 14.72

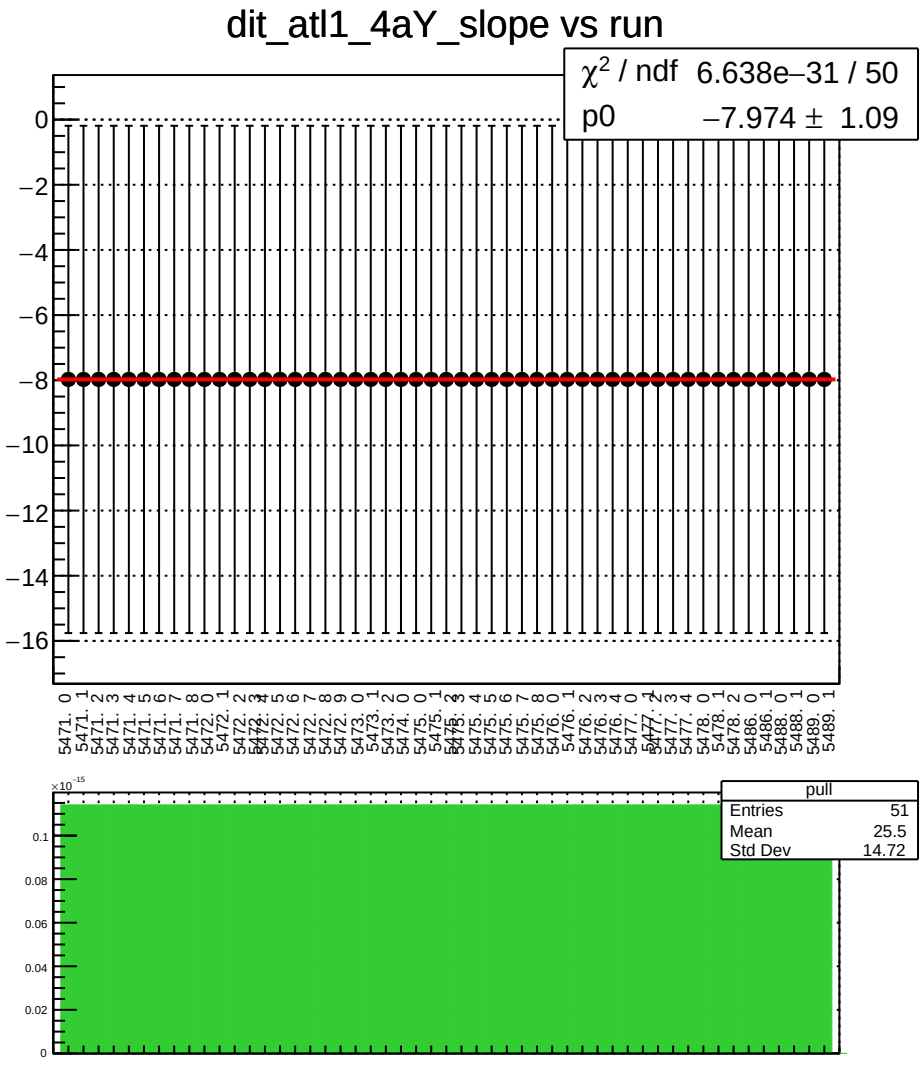

pull1D
Entries 51
Mean 6.578e−16
Std Dev 2.647e−23

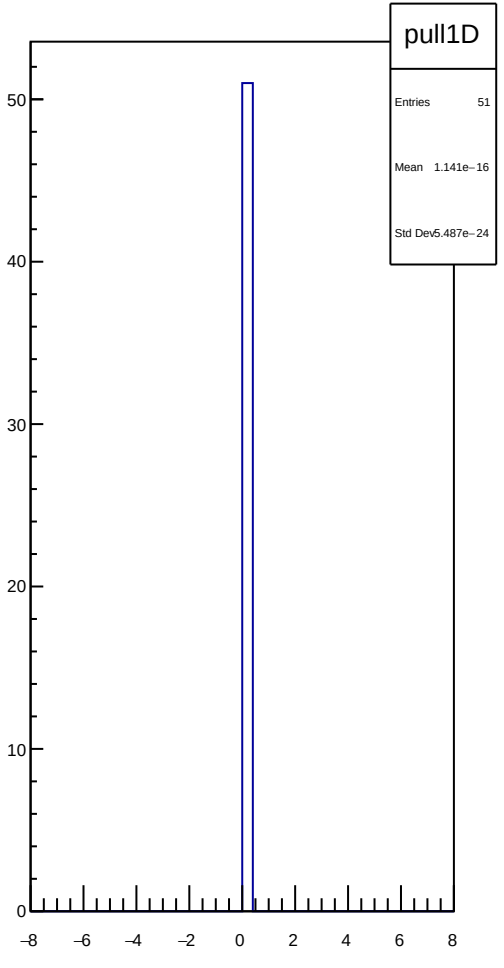

dit_atl1_4aX_slope vs run
χ² / ndf 5.432e−29 / 50
p0 399.7 ± 7.713
460
440
420
400
380
360
340
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
×10⁻�15
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −1.032e−15
Std Dev5.126e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

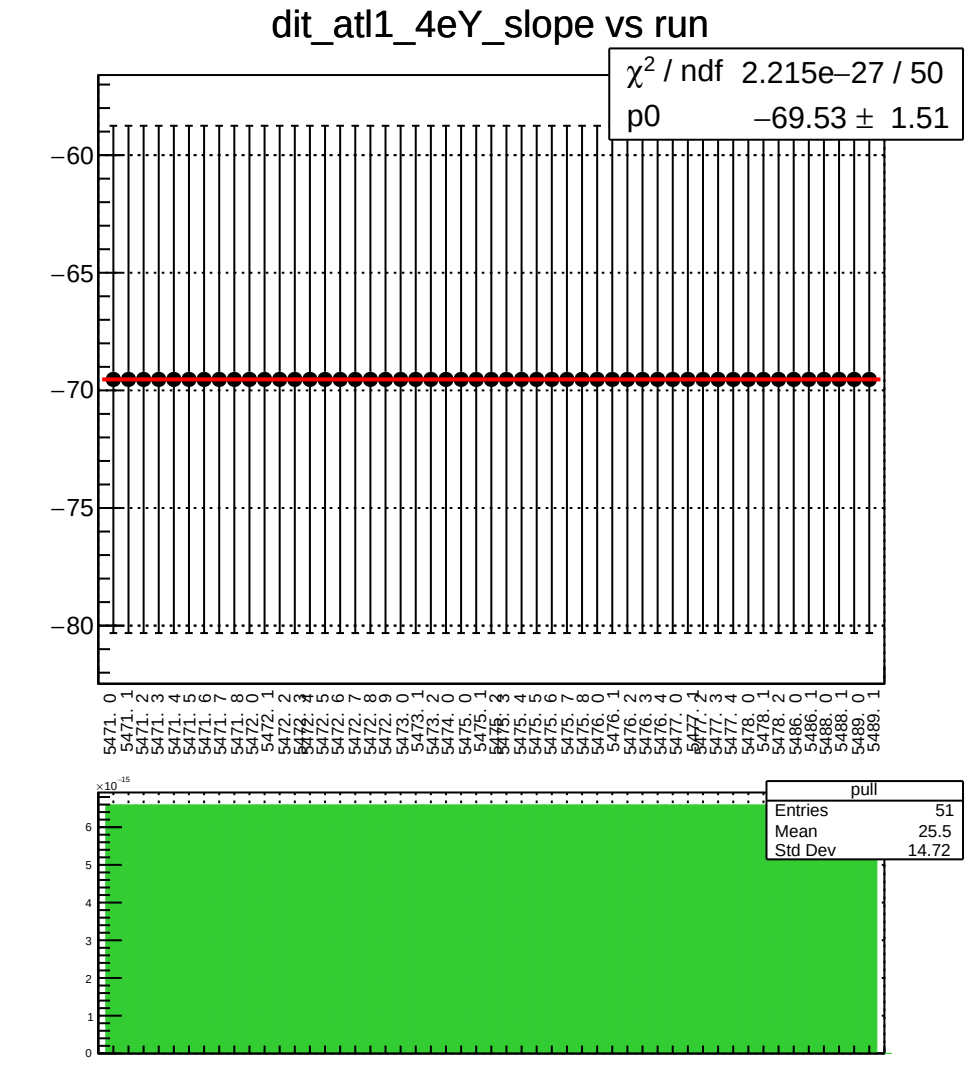

dit_atl1_4eX_slope vs run
χ² / ndf 1.275e−27 / 50
p0 −339.8 ± 7.96
−280
−300
−320
−340
−360
−380
−400
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−1
−2
−3
−4
−5

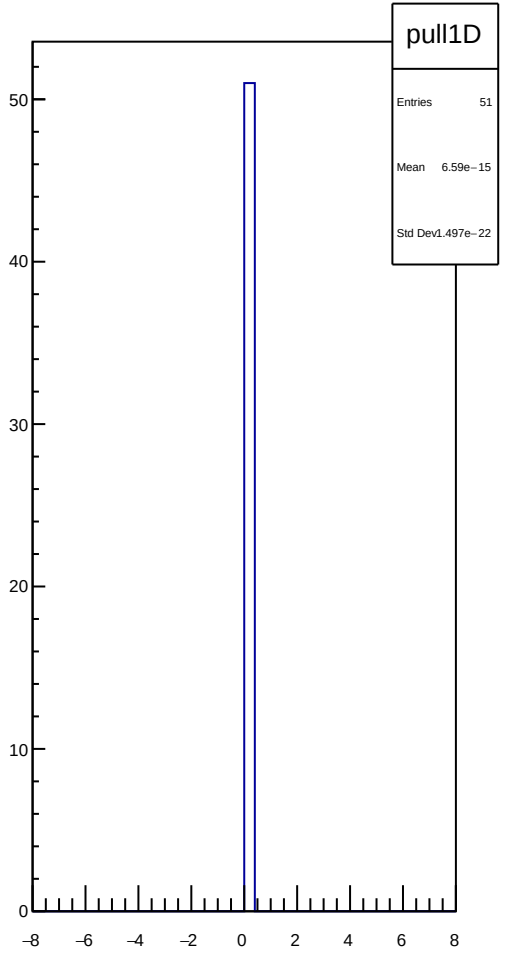

pull1D
Entries 51
Mean −5e−15
Std Dev 1.981e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

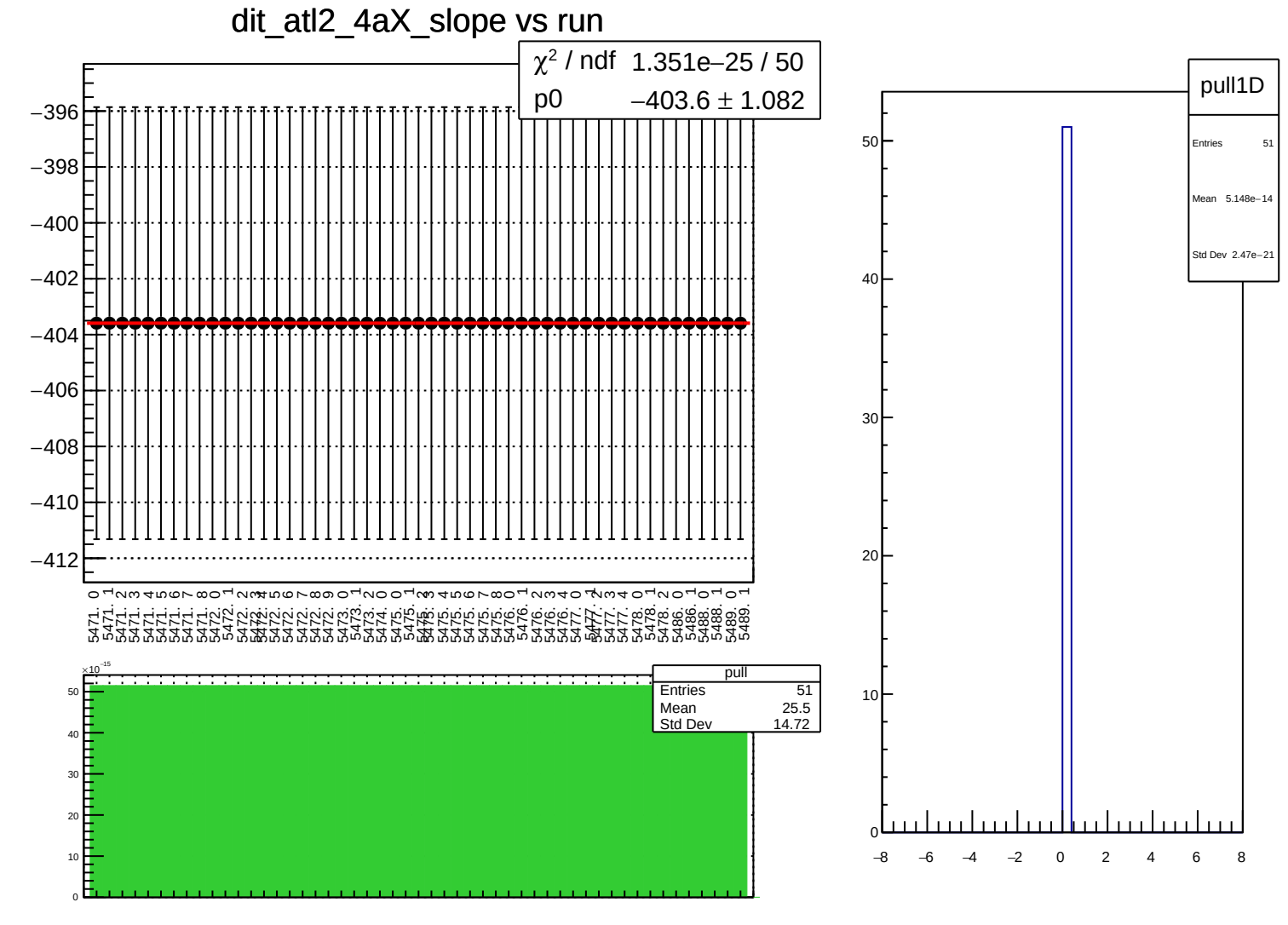

dit_atl1_11X12X_slope vs run
χ^2 / ndf 0 / 50
p0 174.2 ± 3.767
200
190
180
170
160
150
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 5
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
pull
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 51
Mean 0
Std Dev 0
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

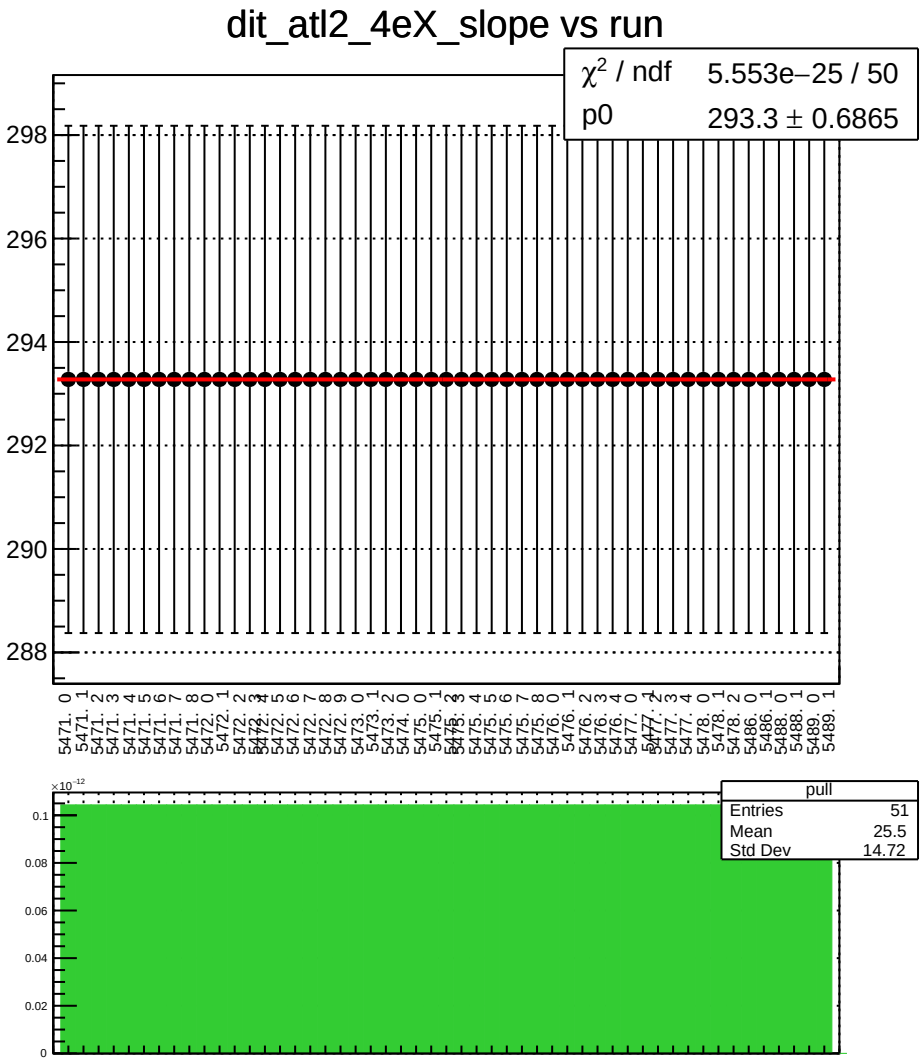

dit_atl1_4aY_slope vs run
χ² / ndf 6.638e−31 / 50
p0 −7.974 ± 1.09
pull
Entries 51
Mean 25.5
Std Dev 14.72

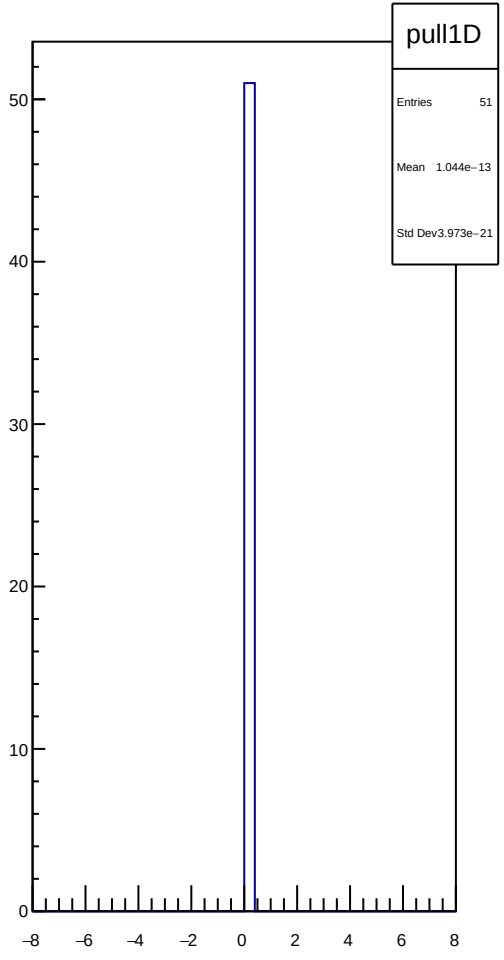

pull1D
Entries 51
Mean 1.141e−16
Std Dev 5.487e−24

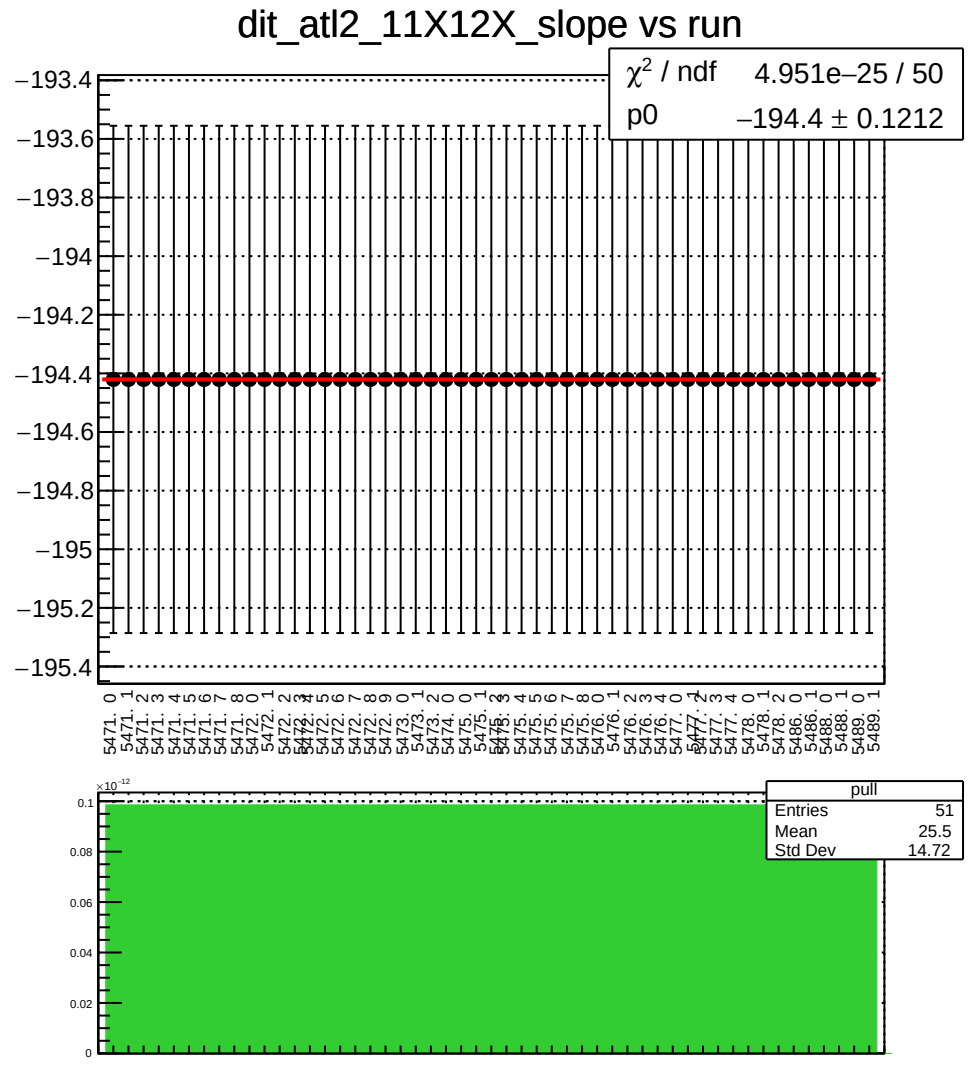

dit_atl1_4eY_slope vs run
χ² / ndf 2.215e−27 / 50
p0 −69.53 ± 1.51
−60
−65
−70
−75
−80
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
1
2
3
4
5
6

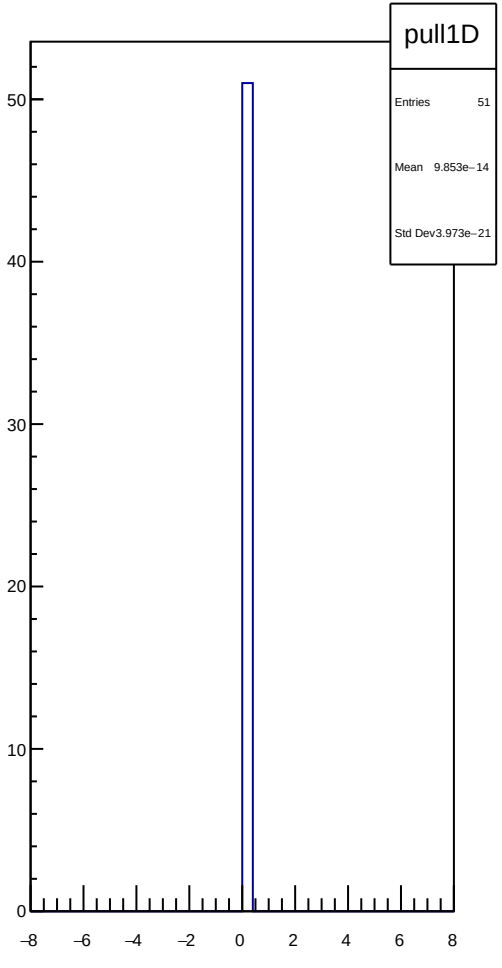

pull1D
Entries 51
Mean 6.59e−15
Std Dev1.497e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

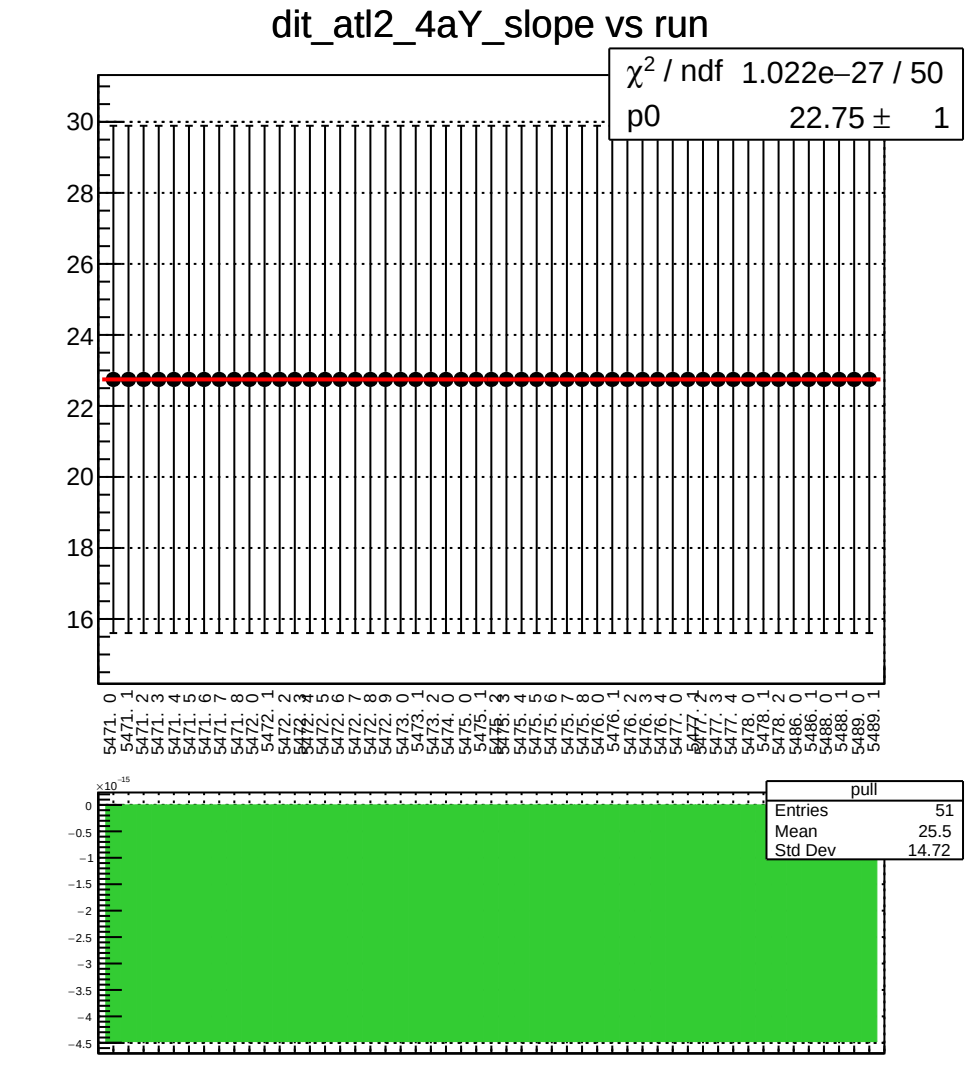

dit_atl2_4aX_slope vs run
χ² / ndf 1.351e−25 / 50
p0 −403.6 ± 1.082
−396
−398
−400
−402
−404
−406
−408
−410
−412
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
pull1D
Entries 51
Mean 5.148e−14
Std Dev 2.47e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

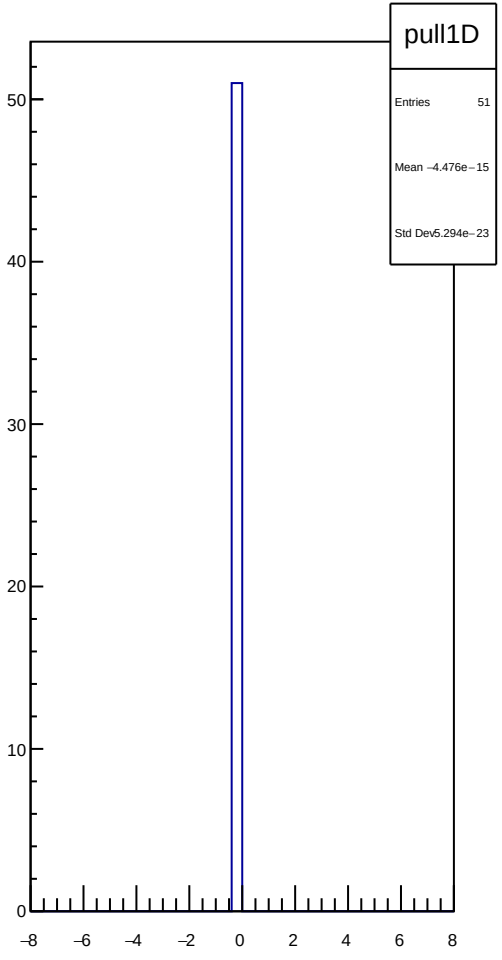

dit_atl2_4eX_slope vs run
χ² / ndf 5.553e−25 / 50
p0 293.3 ± 0.6865
298
296
294
292
290
288
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0

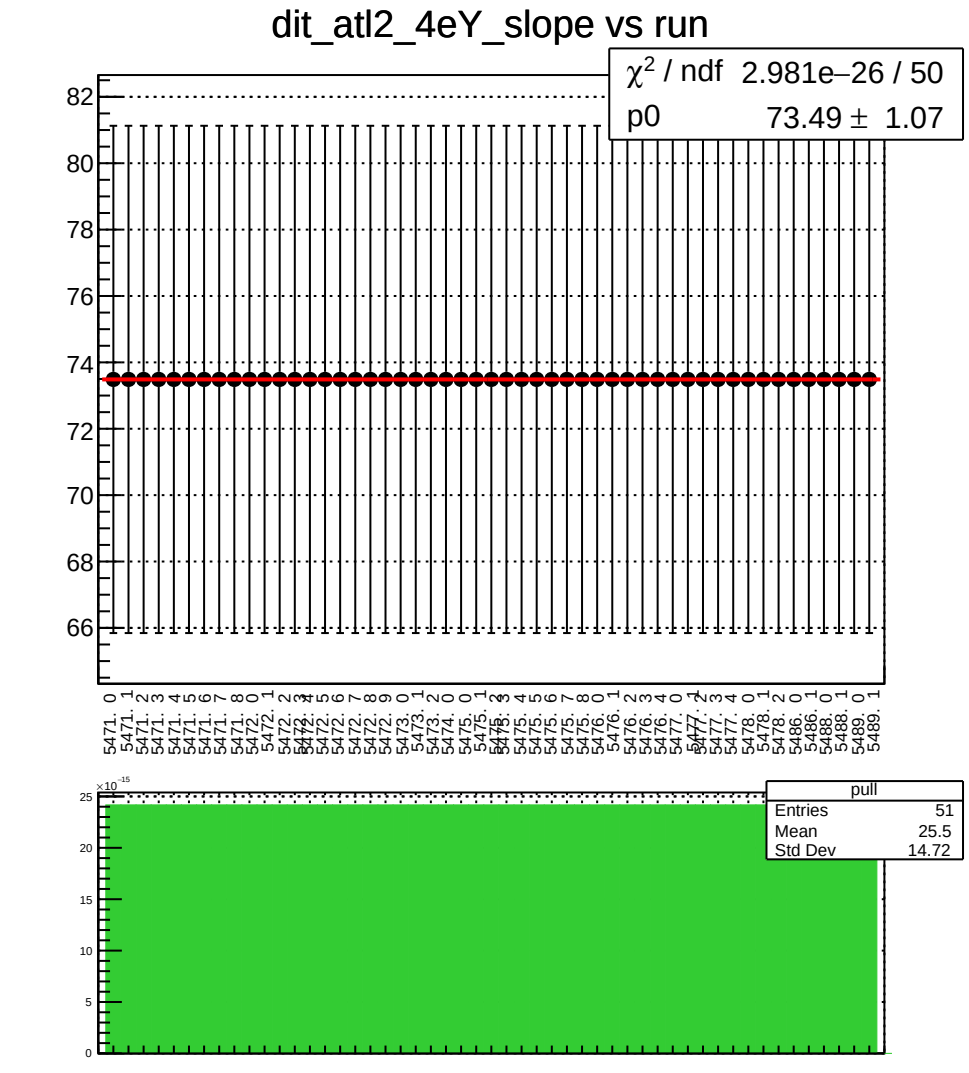

pull1D
Entries 51
Mean 1.044e−13
Std Dev3.973e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

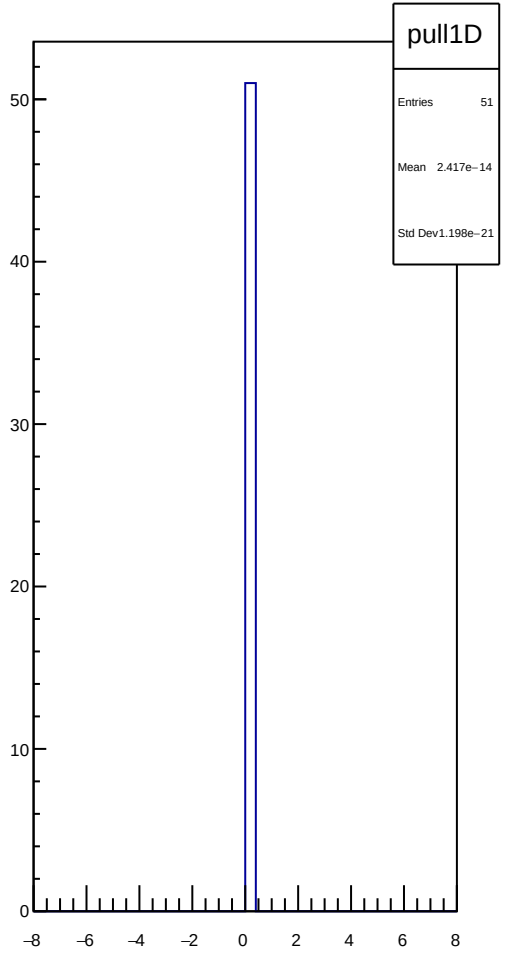

dit_atl2_11X12X_slope vs run
χ² / ndf 4.951e−25 / 50
p0 −194.4 ± 0.1212
−193.4
−193.6
−193.8
−194
−194.2
−194.4
−194.6
−194.8
−195
−195.2
−195.4
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹²
0.1
0.08
0.06
0.04
0.02
0

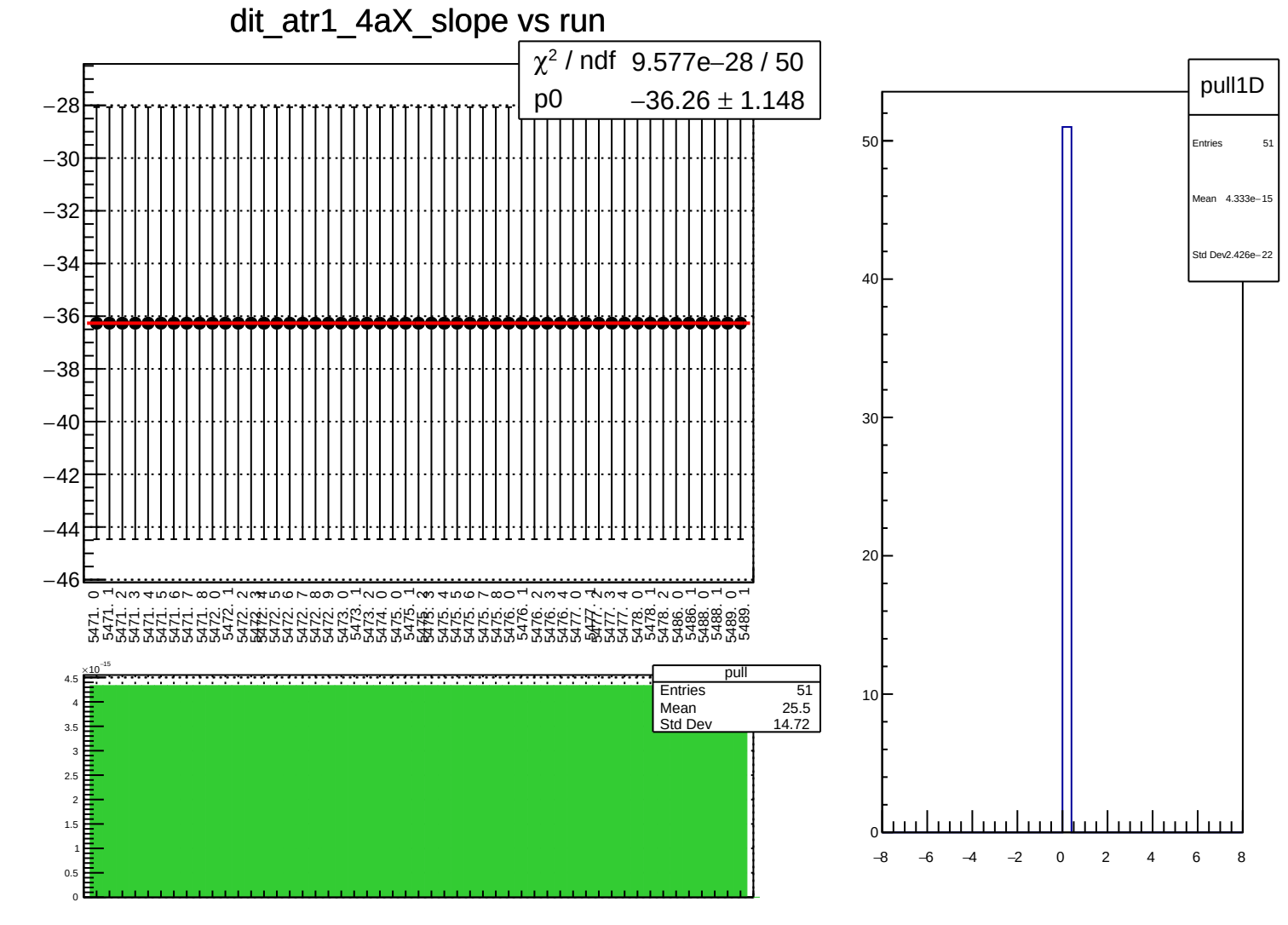

pull1D
Entries 51
Mean 9.853e−14
Std Dev3.973e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

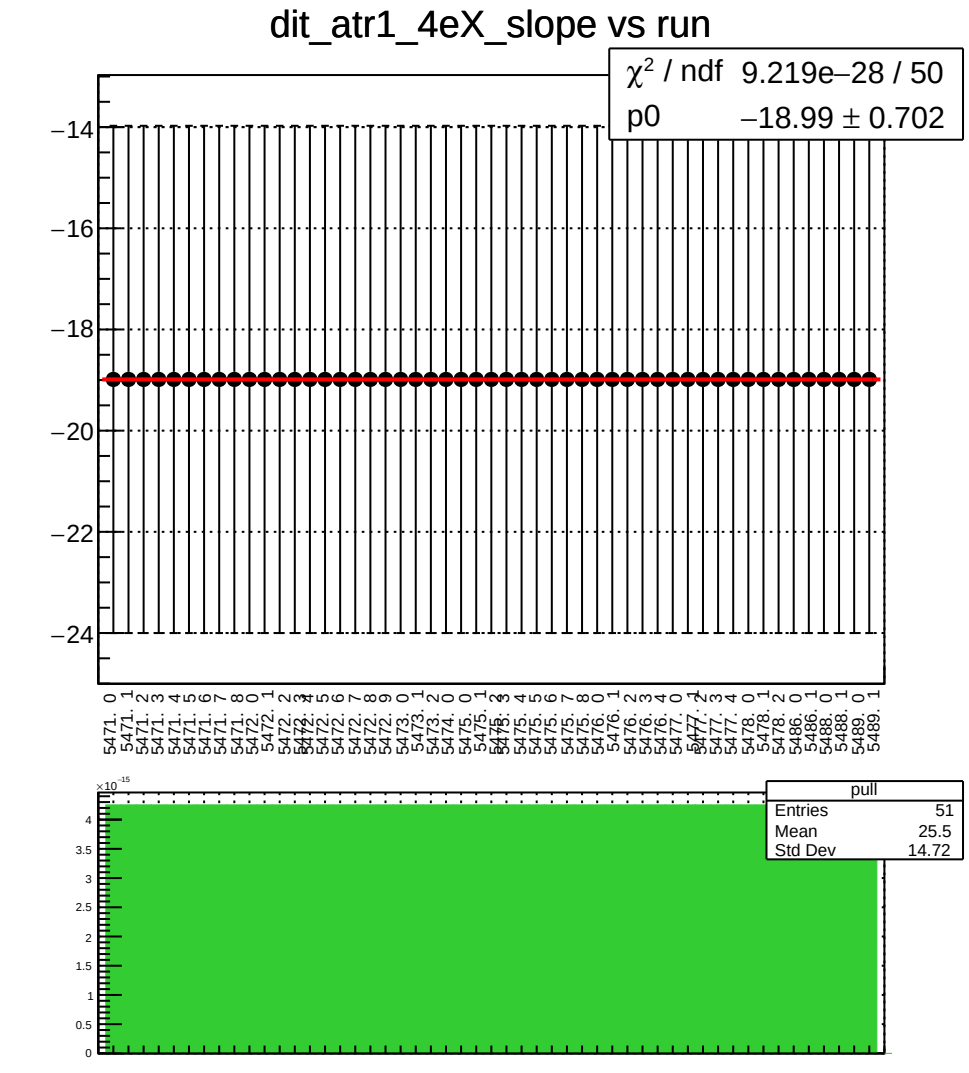

dit_atl2_4aY_slope vs run
χ^2 / ndf 1.022e−27 / 50
p0 22.75 ± 1
30
28
26
24
22
20
18
16
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
×10 -15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
pull
Entries 51
Mean 25.5
Std Dev 14.72

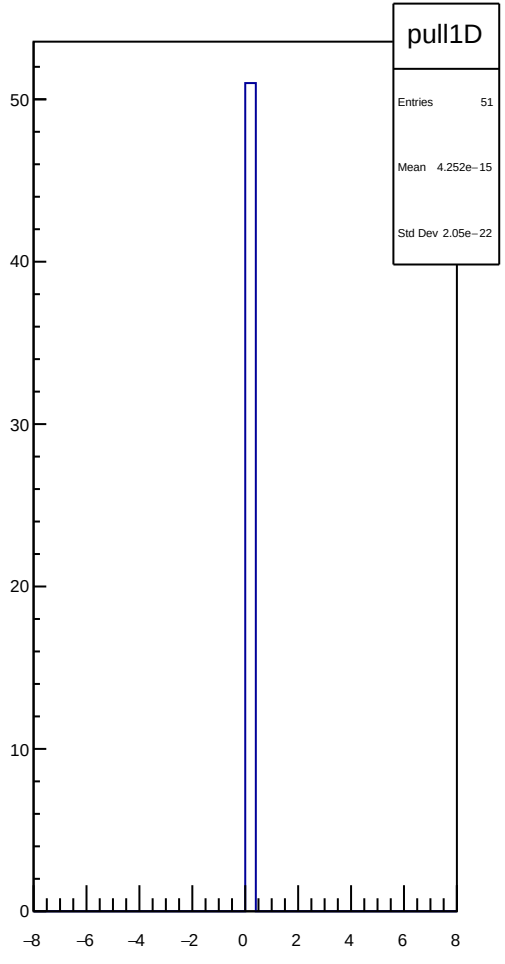

pull1D
Entries 51
Mean −4.476e−15
Std Dev 5.294e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

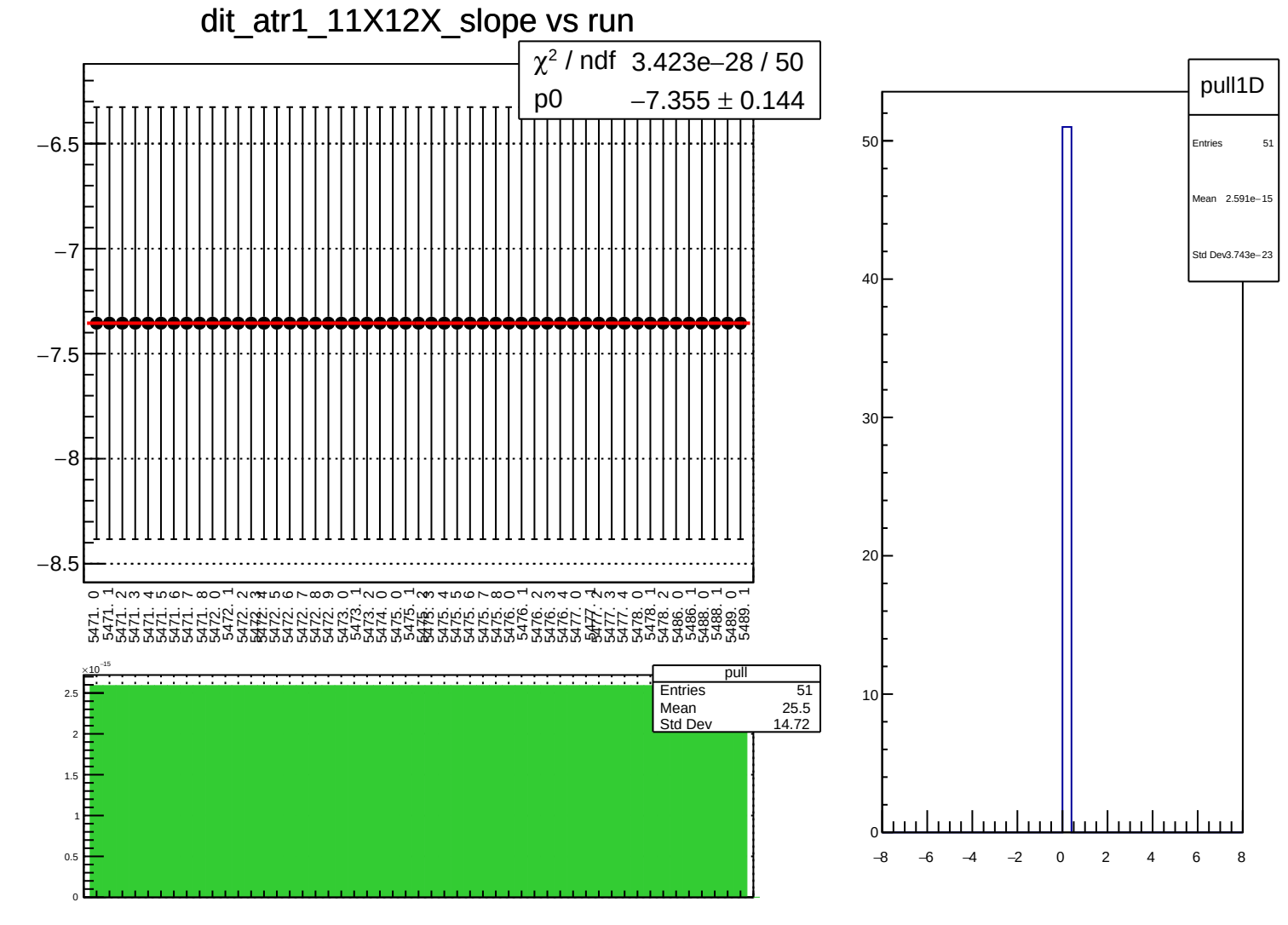

dit_atl2_4eY_slope vs run
χ² / ndf 2.981e−26 / 50
p0 73.49 ± 1.07
pull
Entries 51
Mean 25.5
Std Dev 14.72

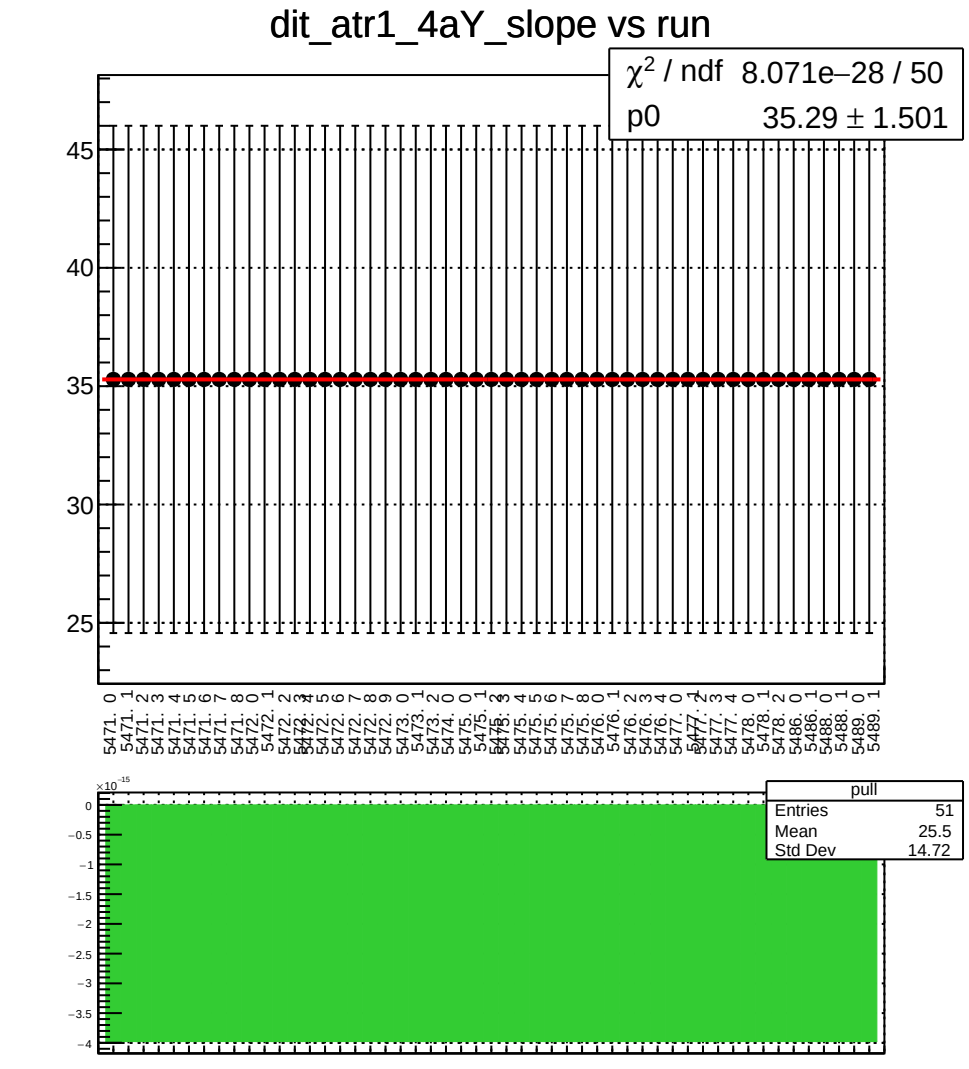

pull1D
Entries 51
Mean 2.417e−14
Std Dev1.198e−21

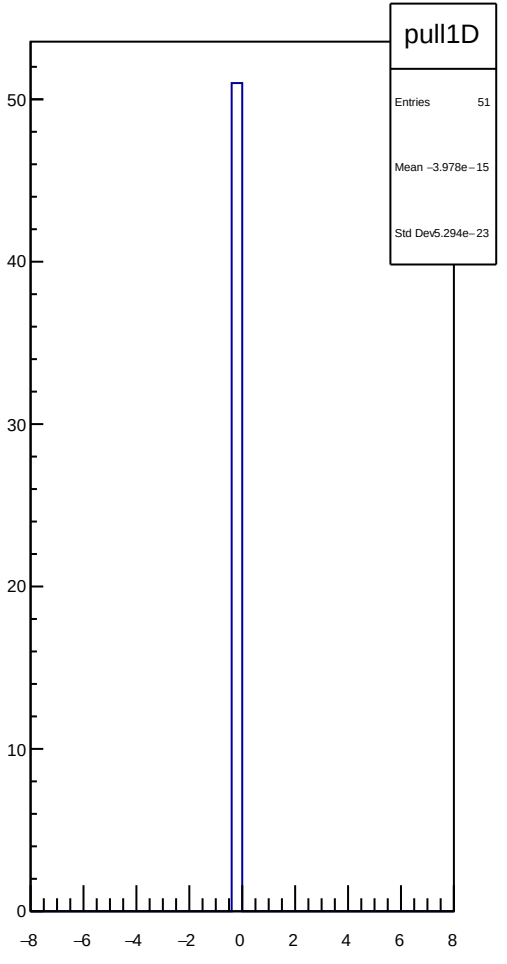

dit_atr1_4aX_slope vs run
χ² / ndf 9.577e−28 / 50
p0 −36.26 ± 1.148
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean 4.333e−15
Std Dev2.426e−22

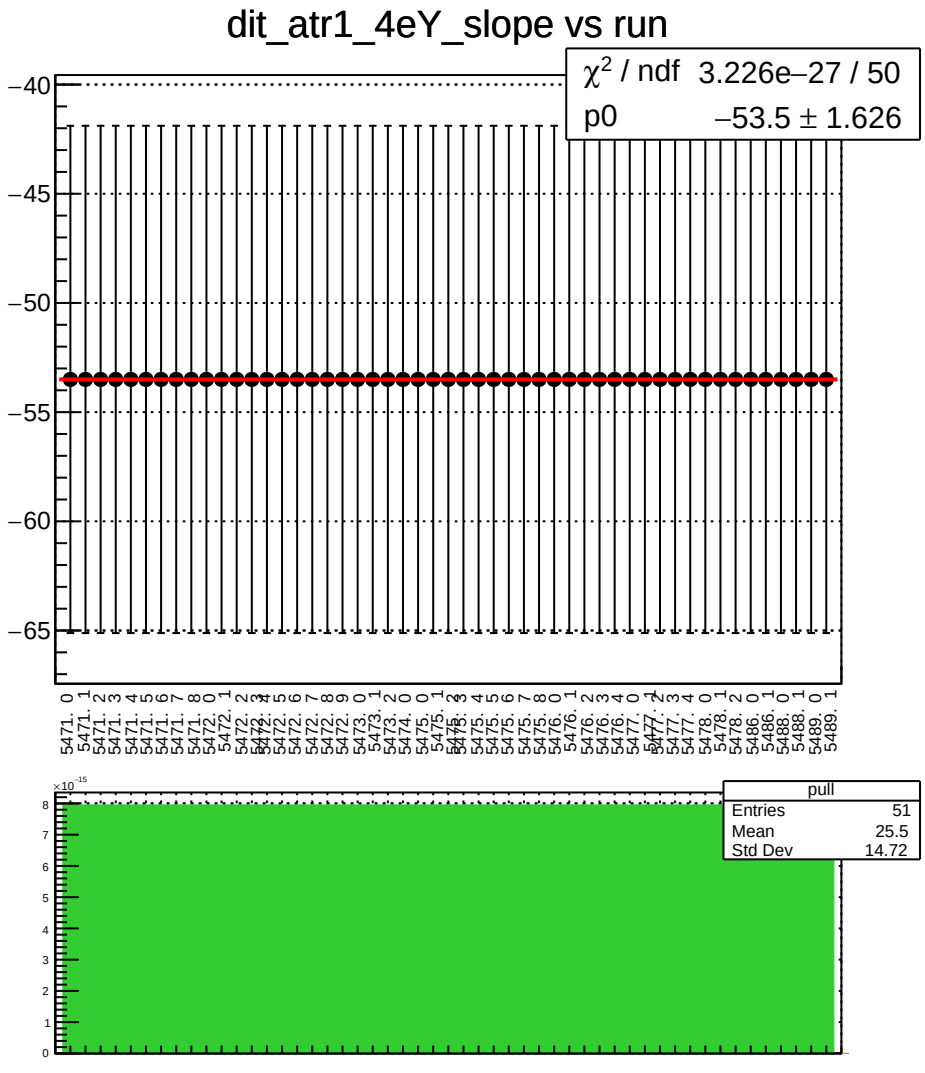

dit_atr1_4eX_slope vs run
χ² / ndf 9.219e−28 / 50
p0 −18.99 ± 0.702
−14
−16
−18
−20
−22
−24
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0

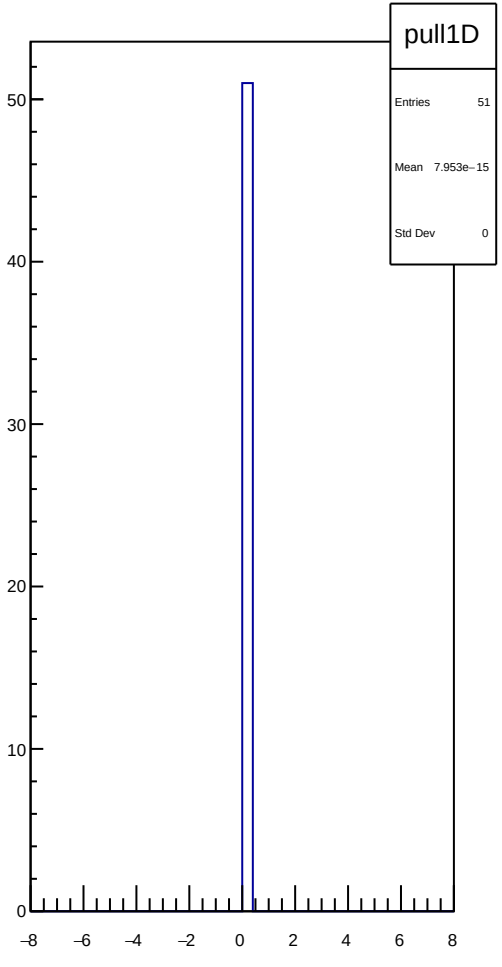

pull1D
Entries 51
Mean 4.252e−15
Std Dev 2.05e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

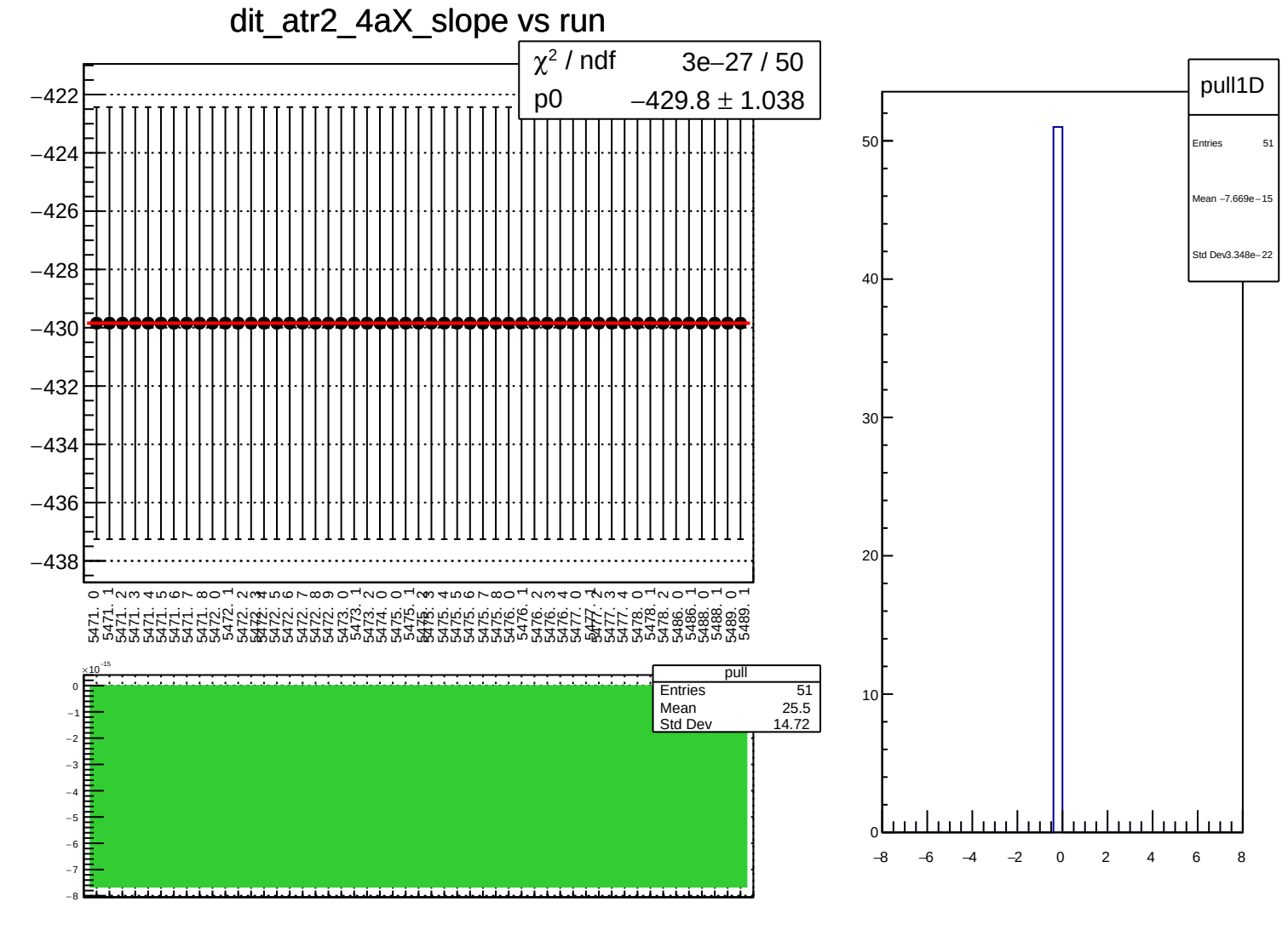

dit_atr1_11X12X_slope vs run
χ² / ndf 3.423e−28 / 50
p0 −7.355 ± 0.144
−6.5
−7
−7.5
−8
−8.5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull1D
Entries 51
Mean 2.591e−15
Std Dev 3.743e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

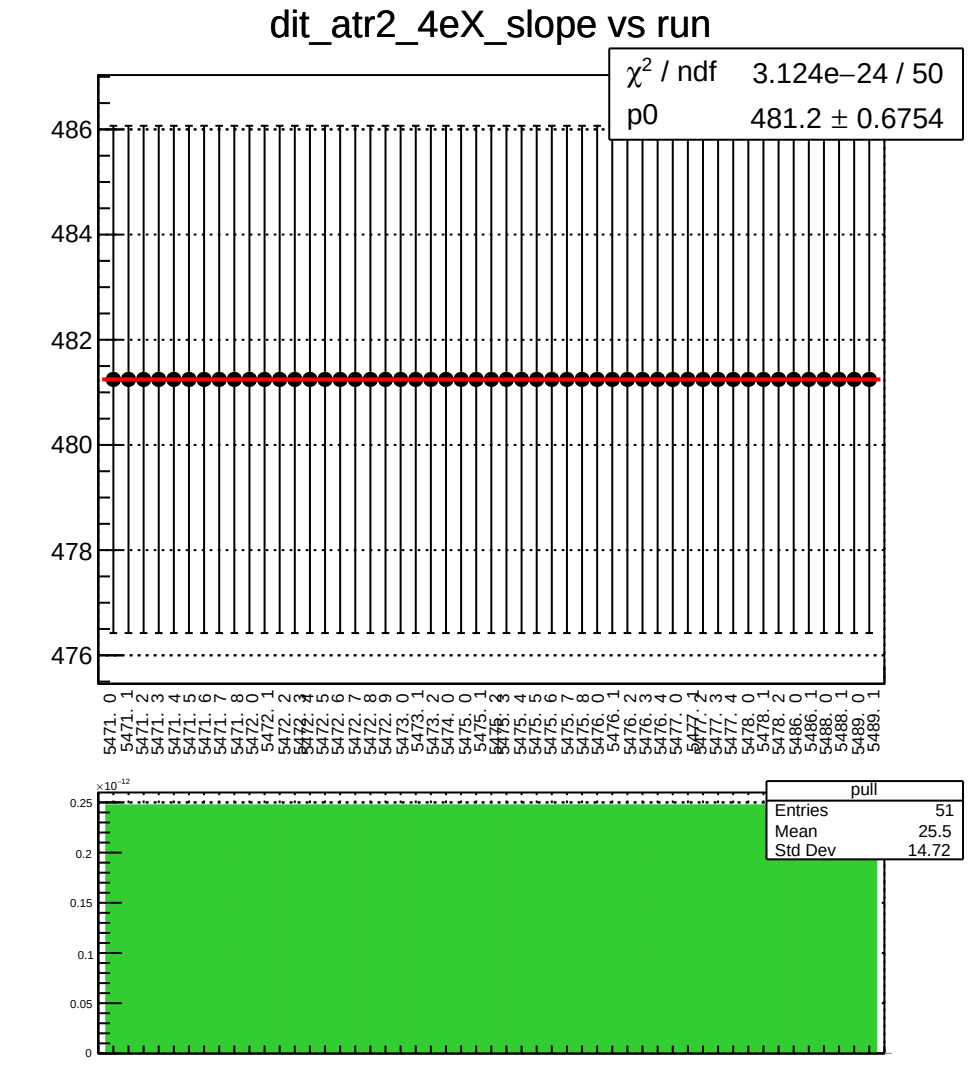

dit_atr1_4aY_slope vs run
χ^2 / ndf 8.071e−28 / 50
p0 35.29 ± 1.501
45
40
35
30
25
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10^-15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4

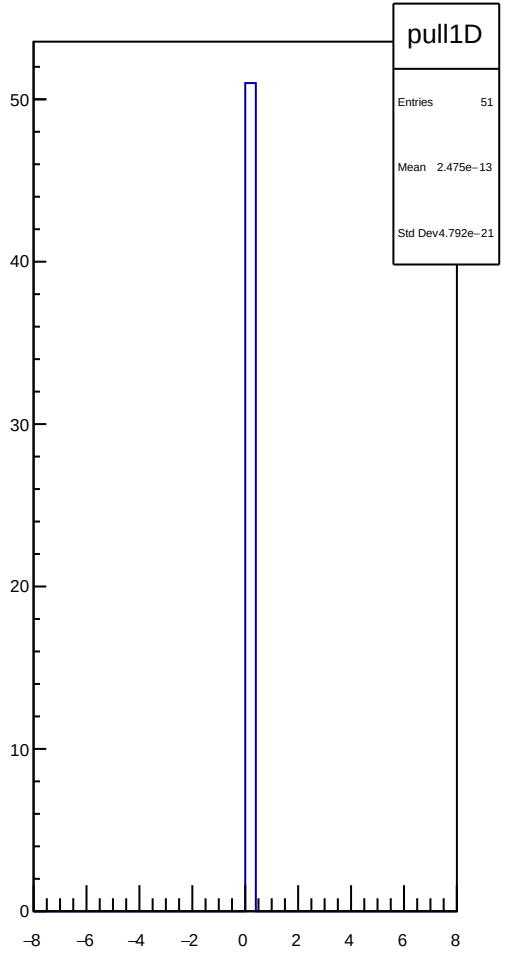

pull1D
Entries 51
Mean −3.978e−15
Std Dev5.294e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

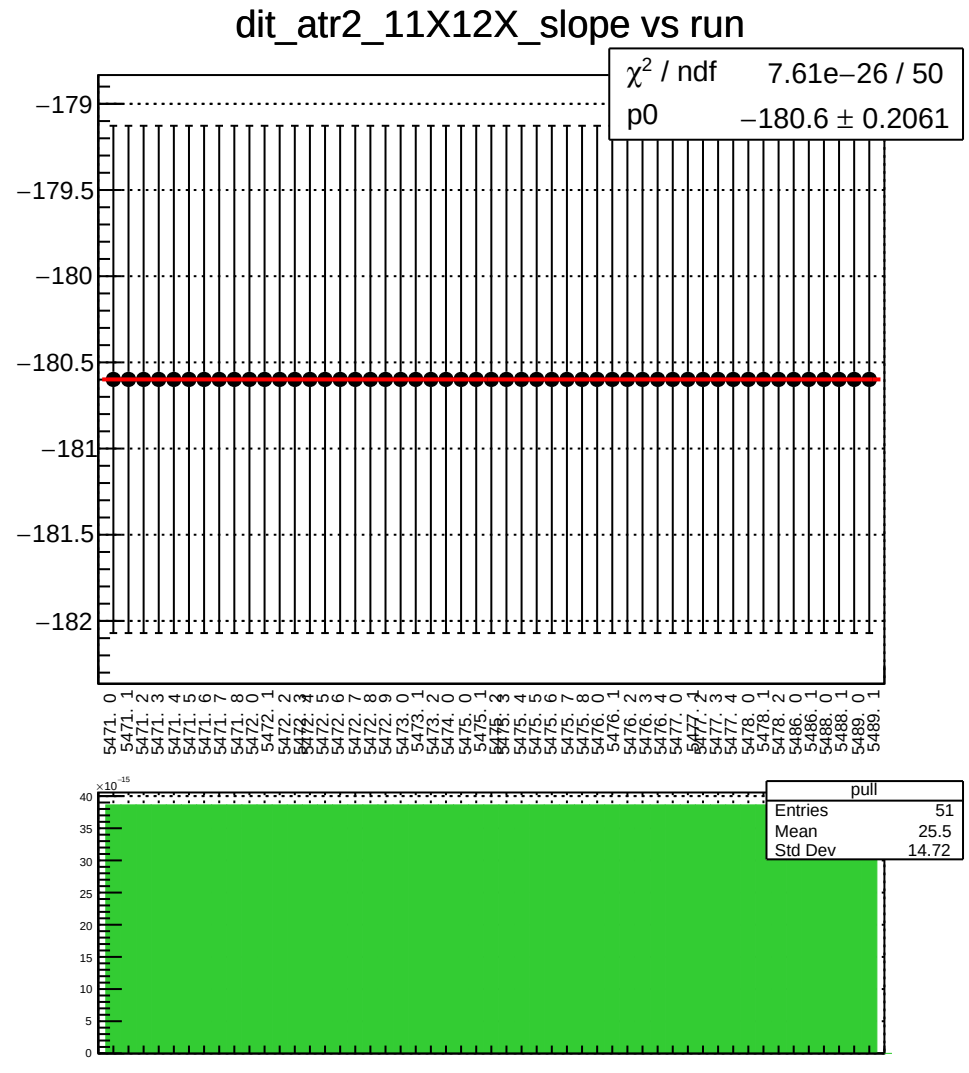

dit_atr1_4eY_slope vs run
χ^2 / ndf 3.226e−27 / 50
p0 −53.5 ± 1.626
−40
−45
−50
−55
−60
−65
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10^-15
8
7
6
5
4
3
2
1
0

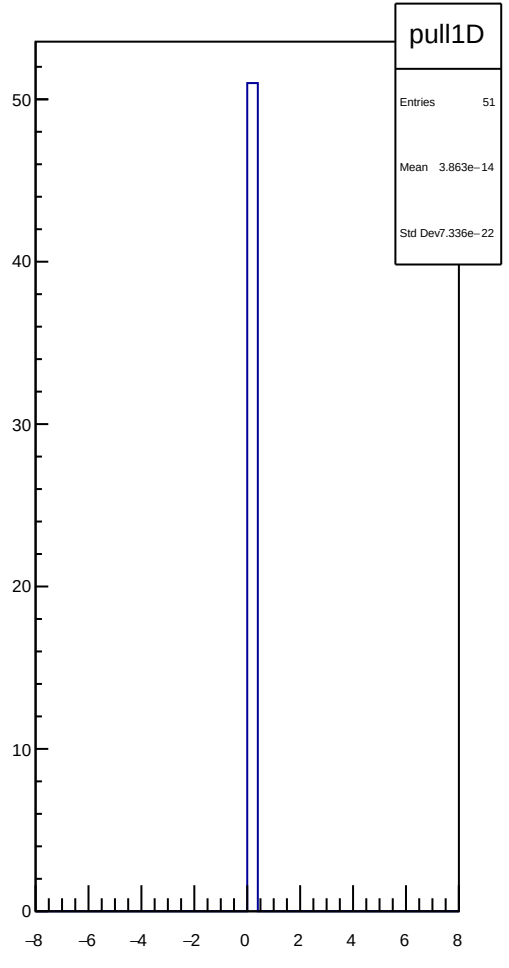

pull1D
Entries 51
Mean 7.953e−15
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

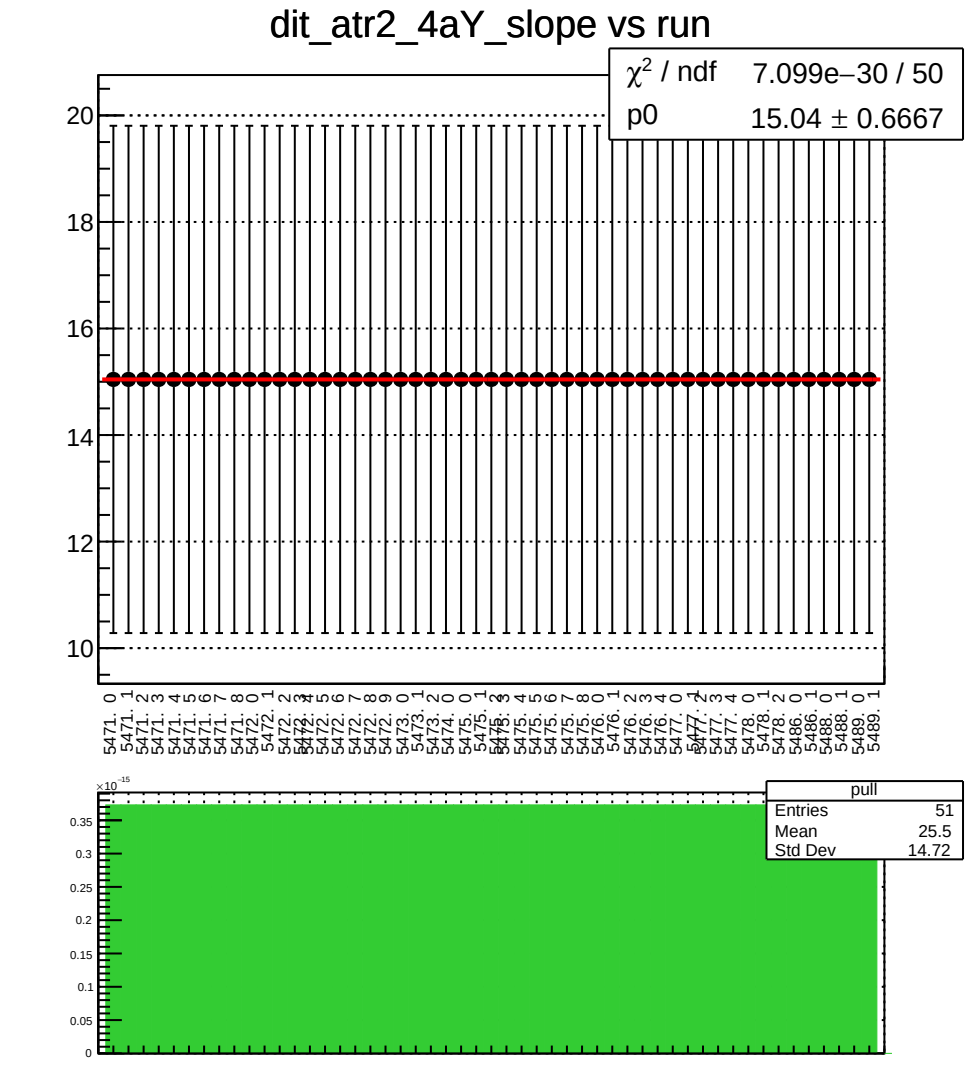

dit_atr2_4aX_slope vs run
χ² / ndf 3e−27 / 50
p0 −429.8 ± 1.038
−422
−424
−426
−428
−430
−432
−434
−436
−438
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
pull1D
Entries 51
Mean −7.669e−15
Std Dev3.348e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

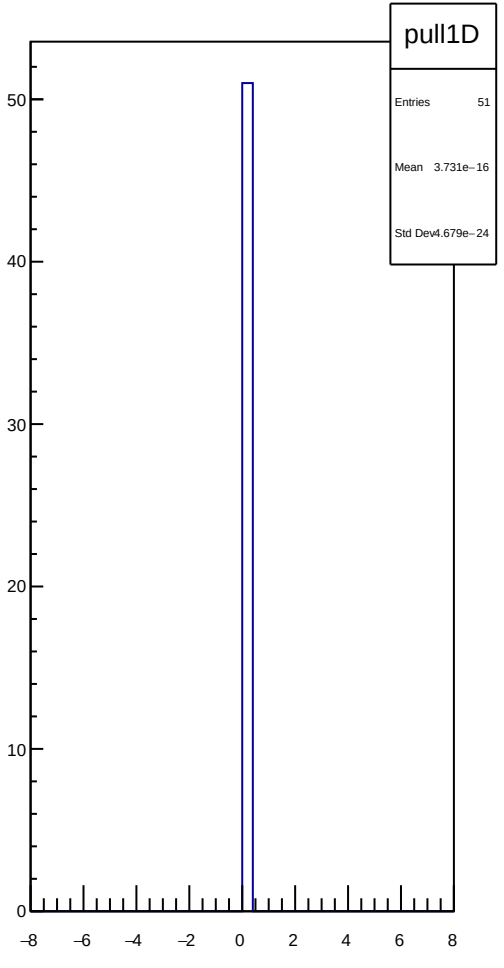

dit_atr2_4eX_slope vs run
χ² / ndf 3.124e−24 / 50
p0 481.2 ± 0.6754
pull
Entries 51
Mean 25.5
Std Dev 14.72

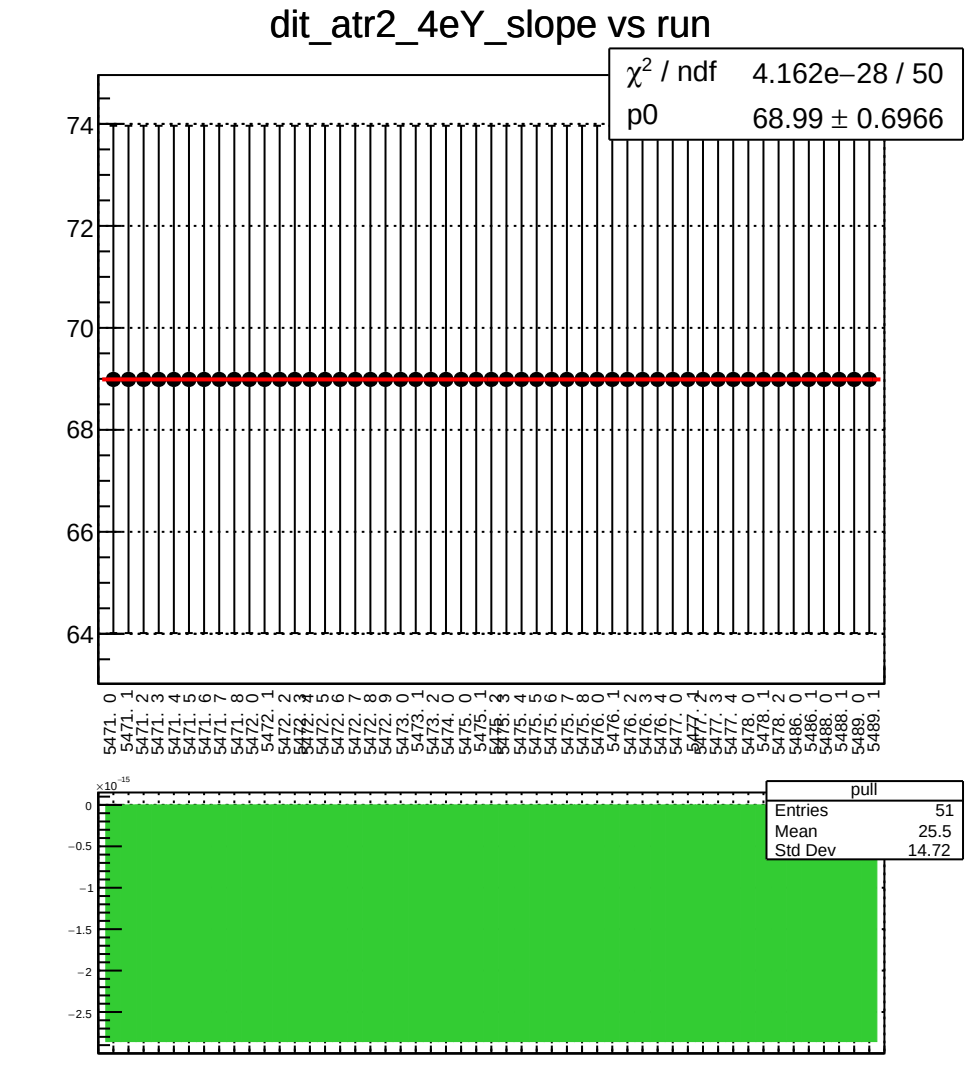

pull1D
Entries 51
Mean 2.475e−13
Std Dev4.792e−21

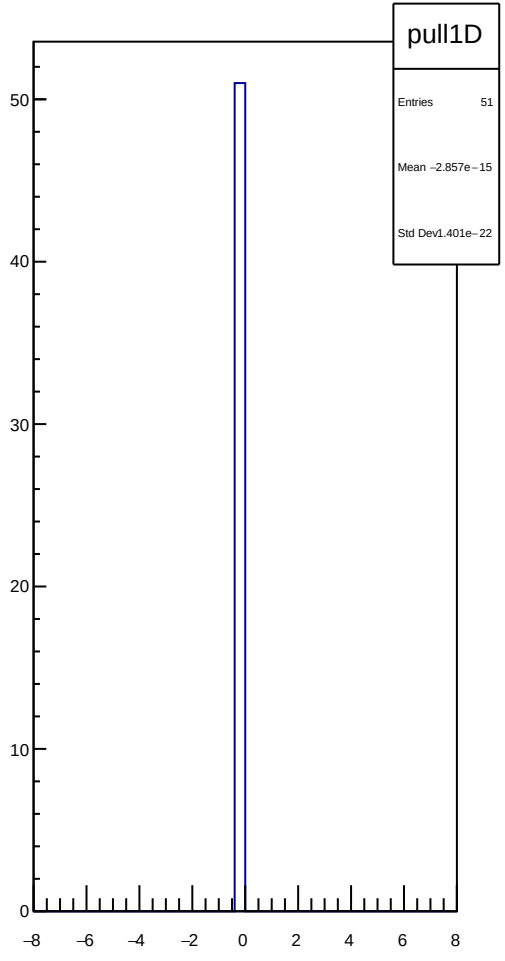

dit_atr2_11X12X_slope vs run
χ² / ndf 7.61e−26 / 50
p0 −180.6 ± 0.2061
−179
−179.5
−180
−180.5
−181
−181.5
−182
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
40
35
30
25
20
15
10
5
0

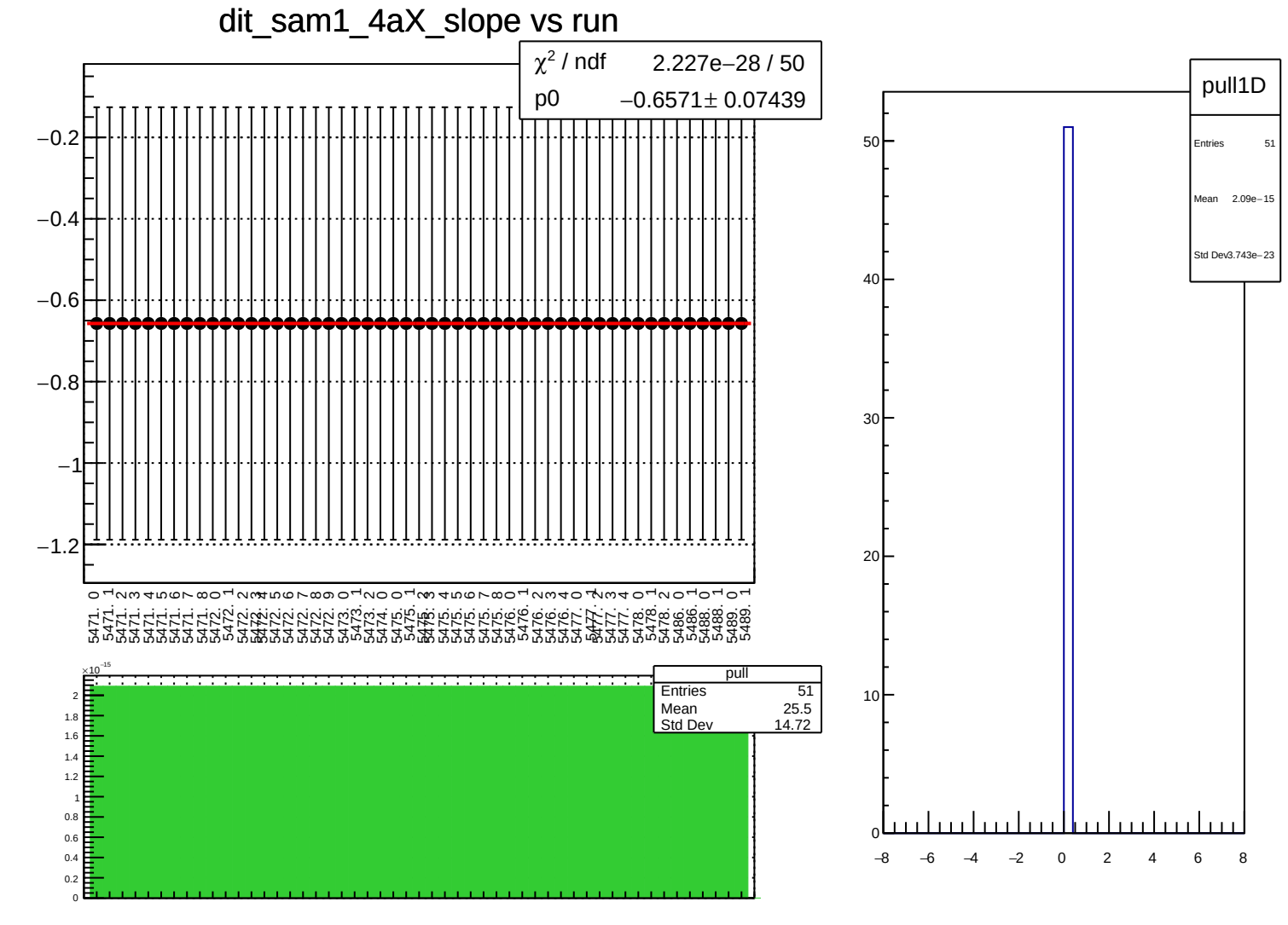

pull1D
Entries 51
Mean 3.863e−14
Std Dev7.336e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

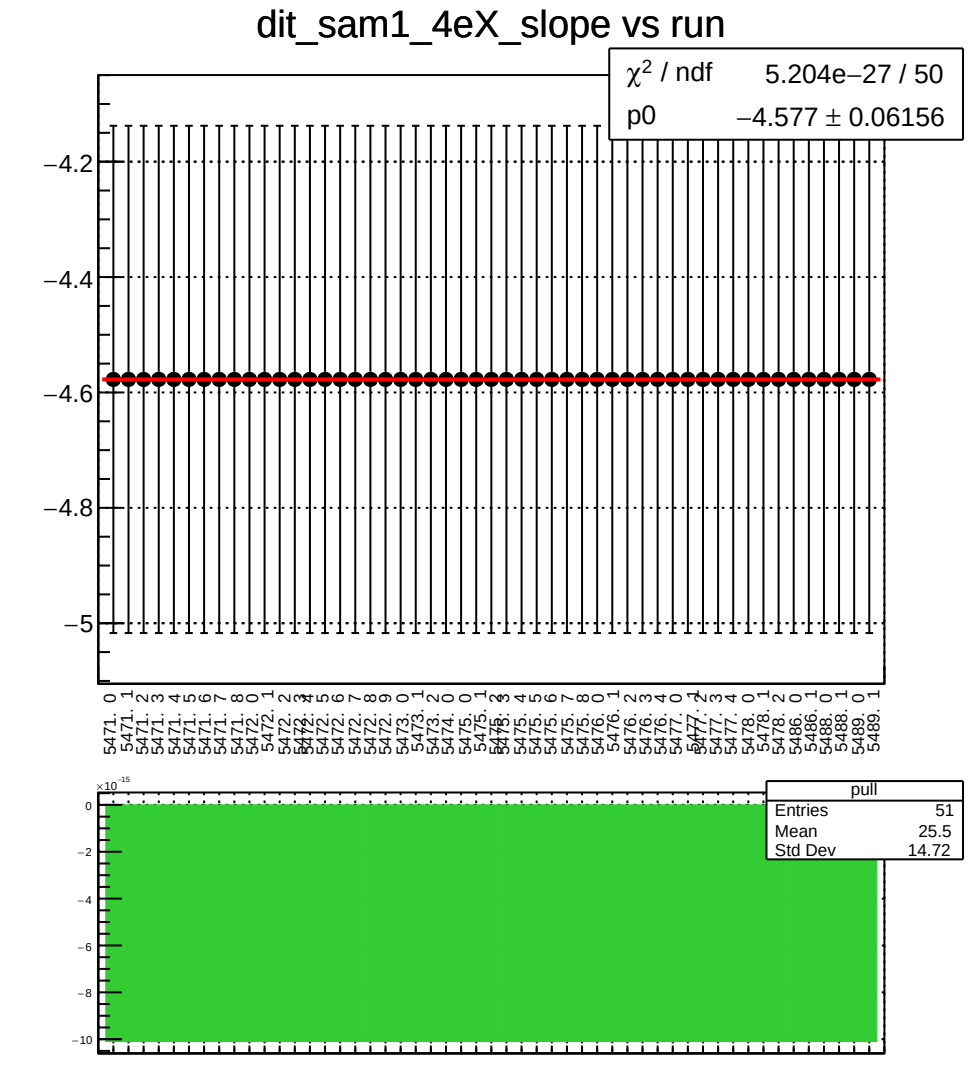

dit_atr2_4aY_slope vs run
χ² / ndf 7.099e−30 / 50
p0 15.04 ± 0.6667
pull
Entries 51
Mean 25.5
Std Dev 14.72

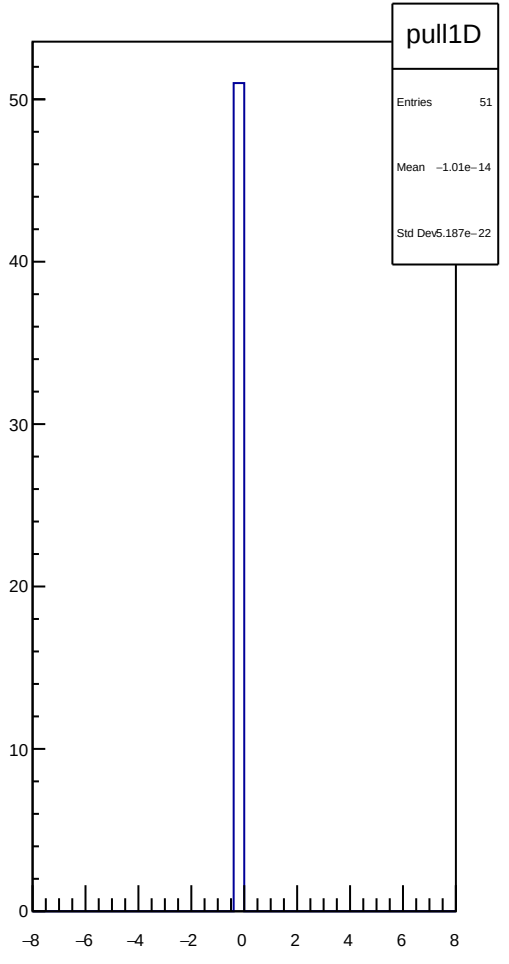

pull1D
Entries 51
Mean 3.731e−16
Std Dev 4.679e−24

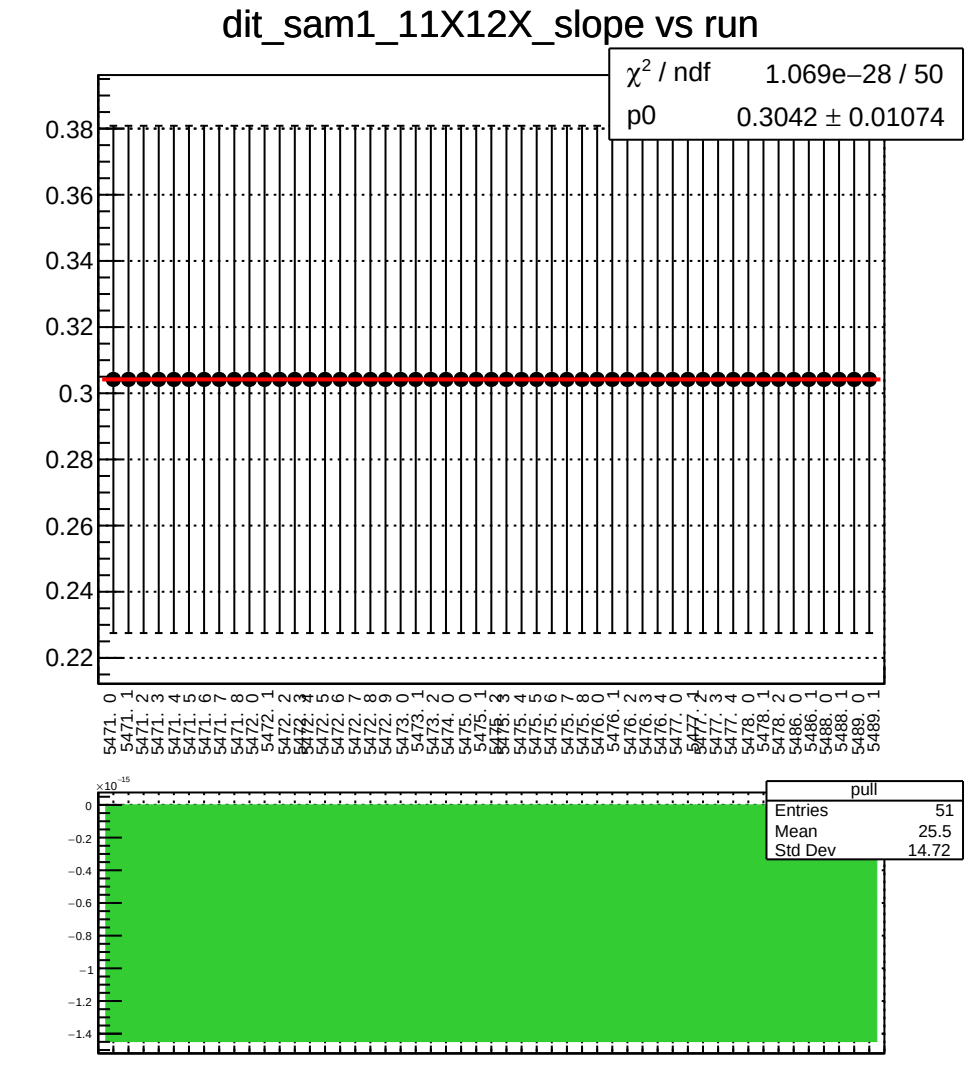

dit_atr2_4eY_slope vs run
χ² / ndf 4.162e−28 / 50
p0 68.99 ± 0.6966
74
72
70
68
66
64
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5

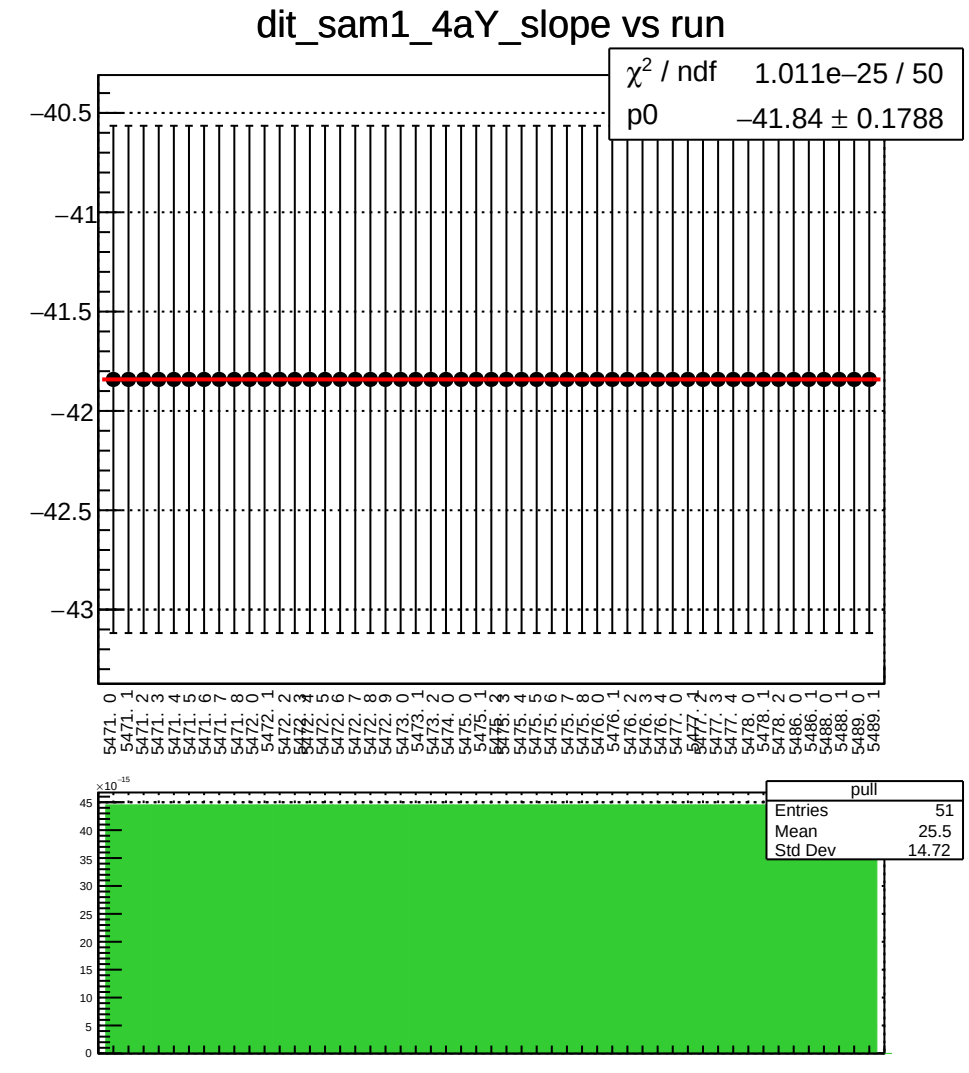

pull1D
Entries 51
Mean −2.857e−15
Std Dev1.401e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

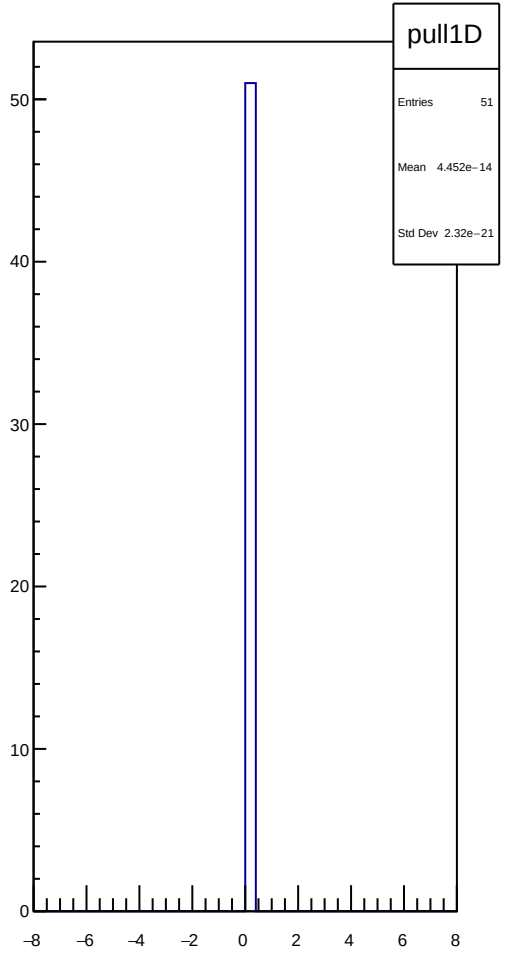

dit_sam1_4aX_slope vs run
χ² / ndf 2.227e−28 / 50
p0 −0.6571± 0.07439
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
pull1D
Entries 51
Mean 2.09e−15
Std Dev 3.743e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

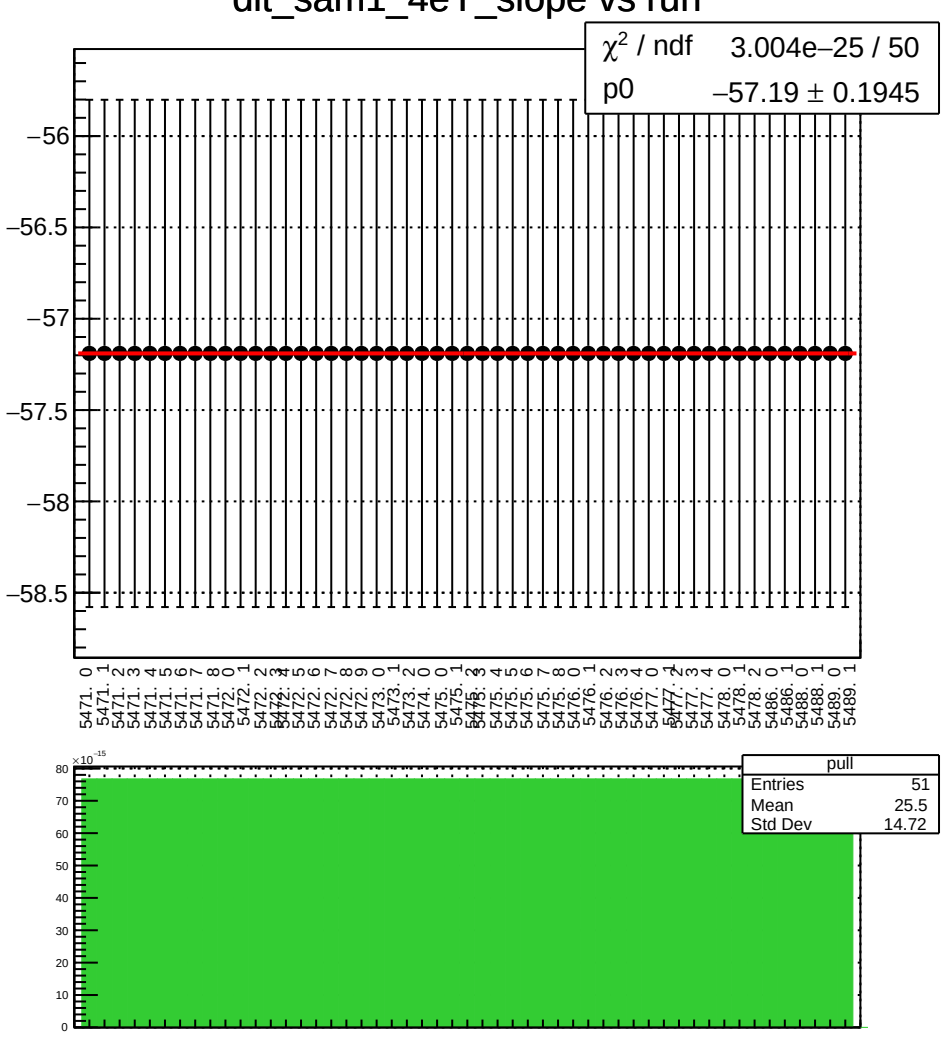

dit_sam1_4eX_slope vs run
χ² / ndf 5.204e−27 / 50
p0 −4.577 ± 0.06156
−4.2
−4.4
−4.6
−4.8
−5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−2
−4
−6
−8
−10

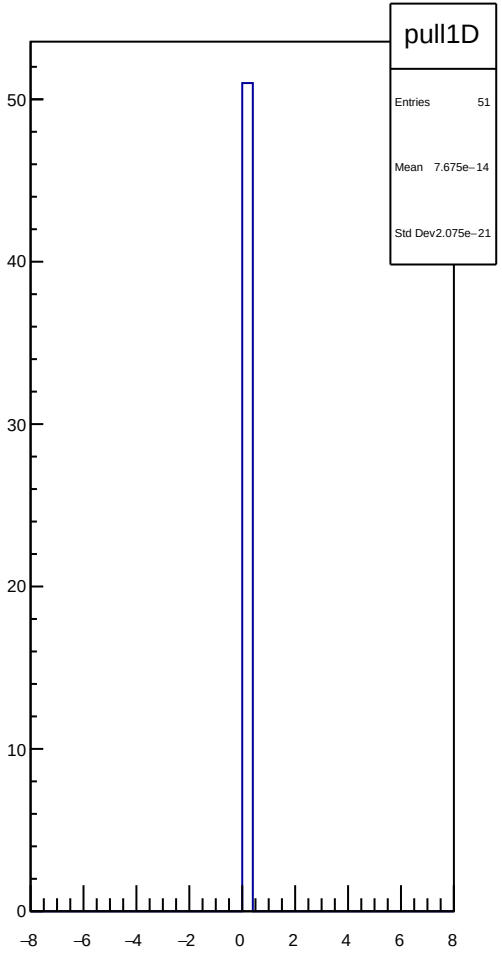

pull1D
Entries 51
Mean −1.01e−14
Std Dev 5.187e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

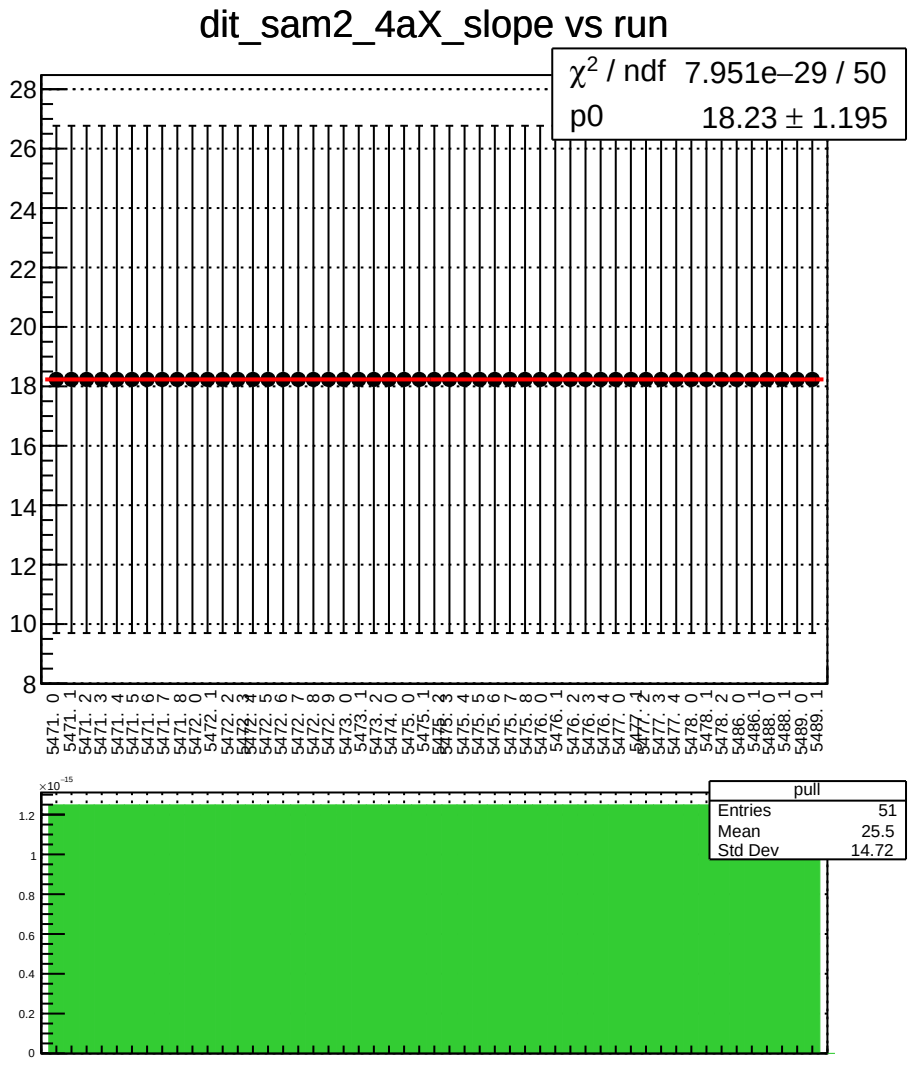

dit_sam1_11X12X_slope vs run
χ² / ndf 1.069e−28 / 50
p0 0.3042 ± 0.01074
0.38
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 1
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −1.448e−15
Std Dev 6.748e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

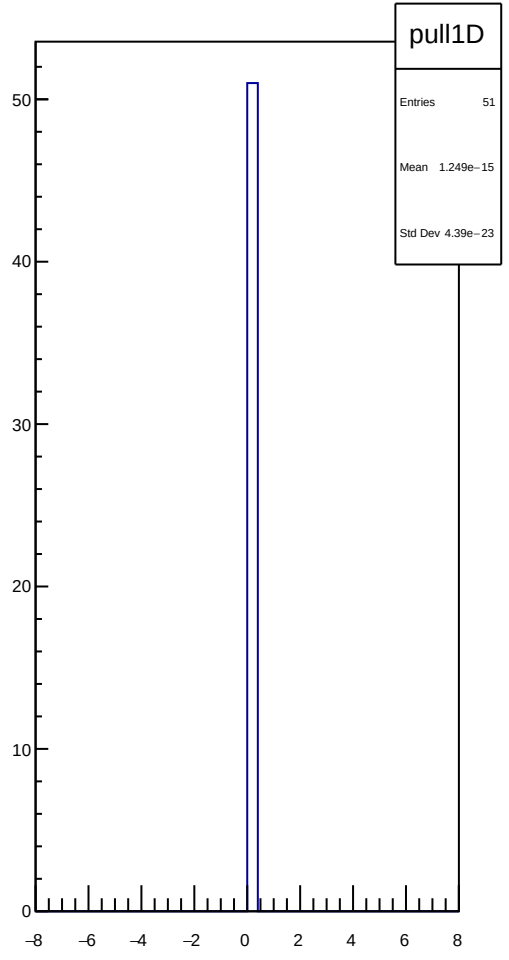

dit_sam1_4aY_slope vs run
χ² / ndf 1.011e−25 / 50
p0 −41.84 ± 0.1788
−40.5
−41
−41.5
−42
−42.5
−43
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
45
40
35
30
25
20
15
10
5
0

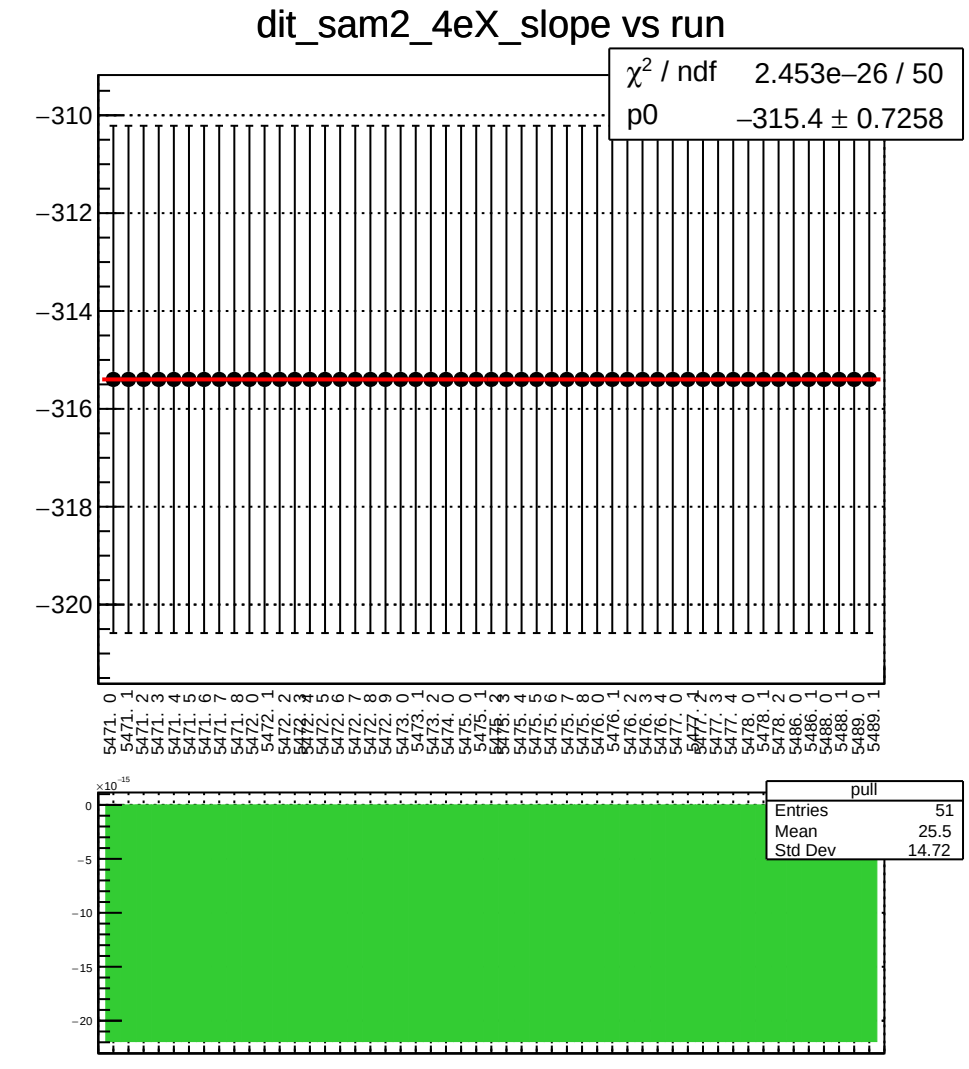

pull1D
Entries 51
Mean 4.452e−14
Std Dev 2.32e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

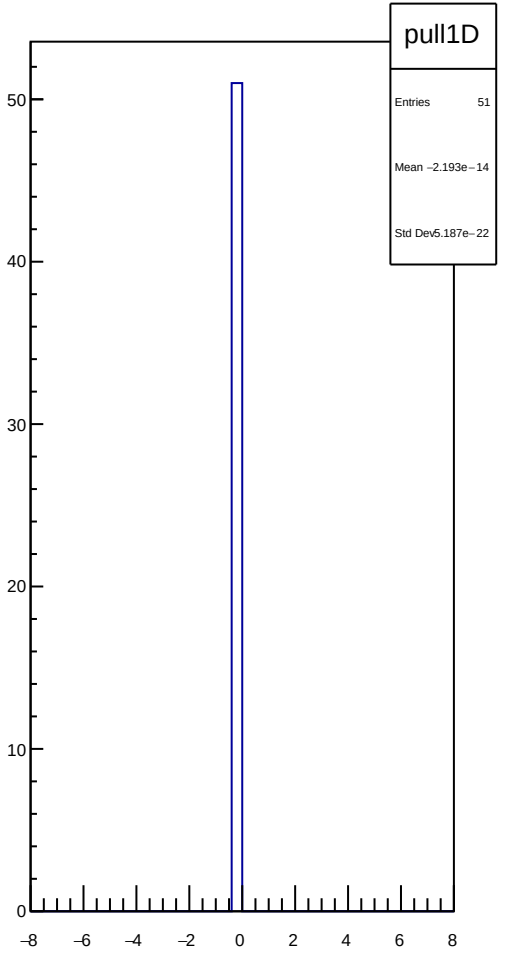

dit_sam1_4eY_slope vs run
χ² / ndf 3.004e−25 / 50
p0 −57.19 ± 0.1945
−56
−56.5
−57
−57.5
−58
−58.5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵

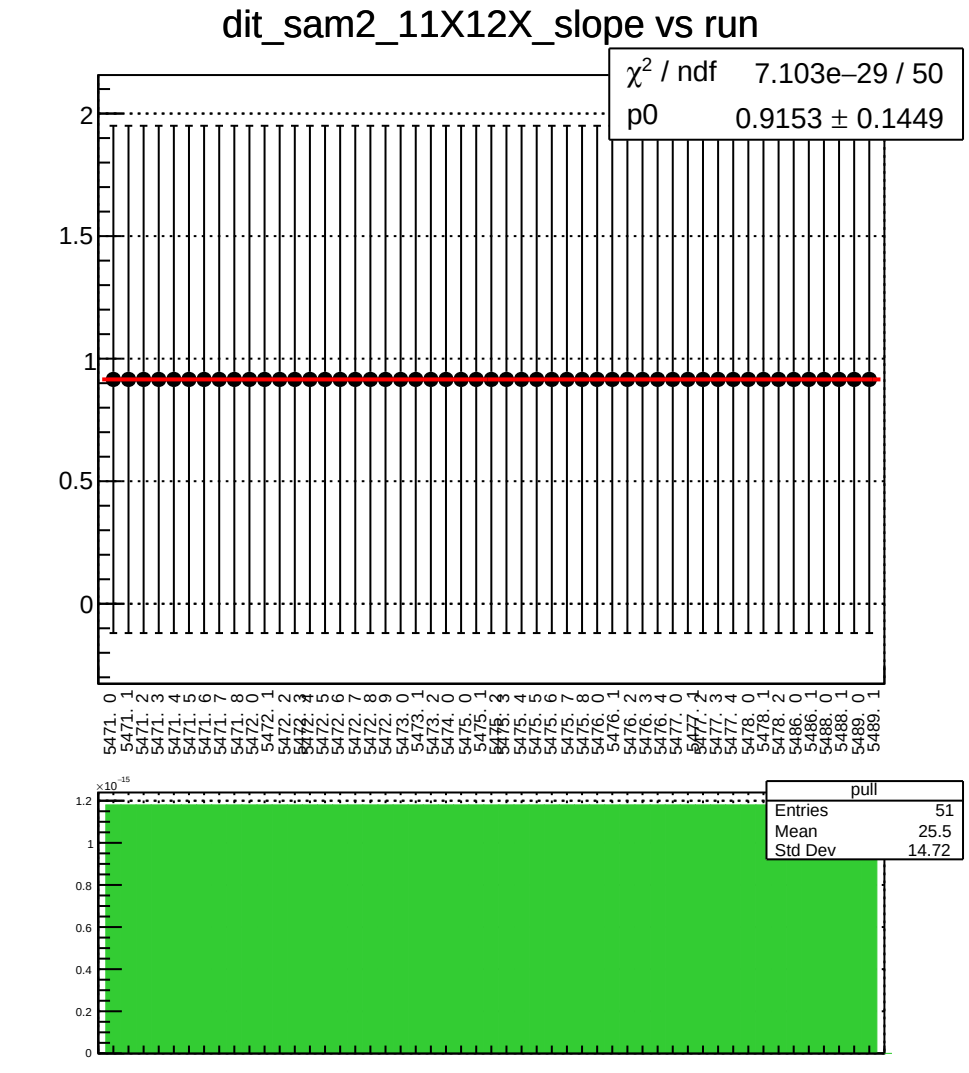

pull1D
Entries 51
Mean 7.675e−14
Std Dev2.075e−21

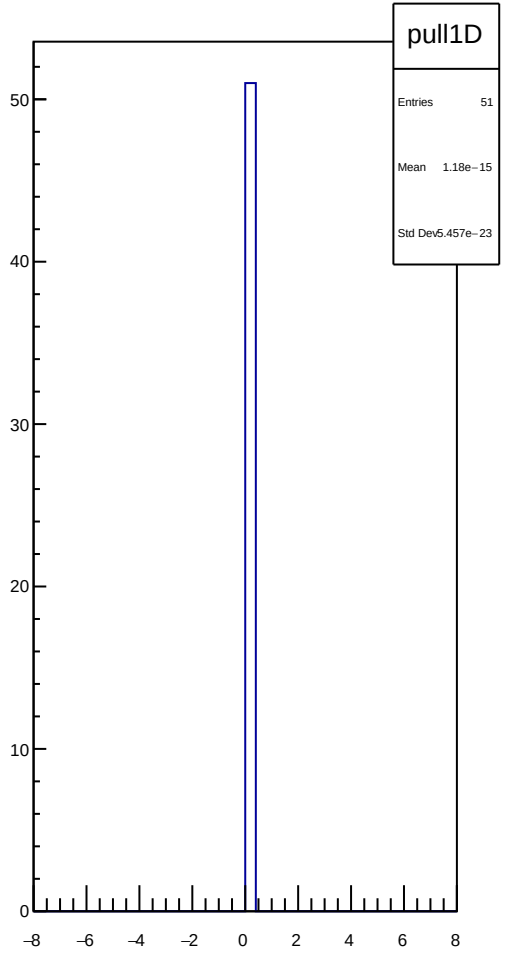

dit_sam2_4aX_slope vs run
χ² / ndf 7.951e−29 / 50
p0 18.23 ± 1.195
pull
Entries 51
Mean 25.5
Std Dev 14.72

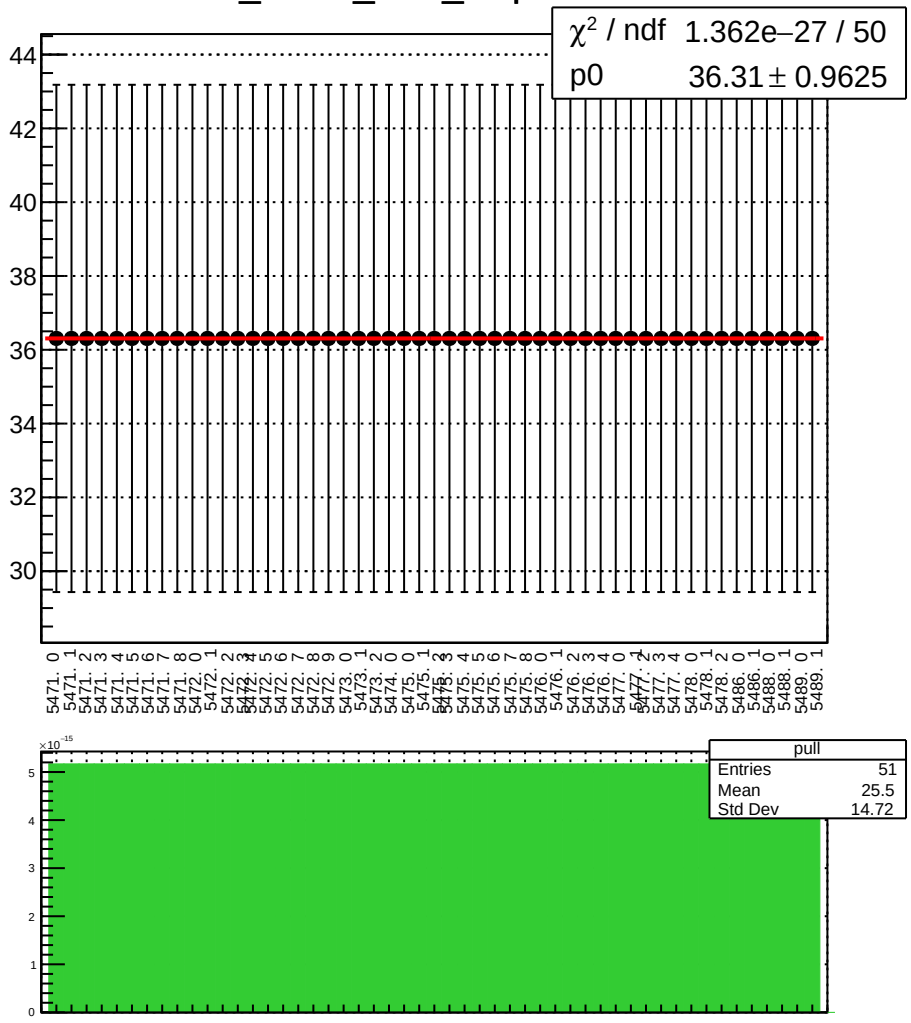

pull1D
Entries 51
Mean 1.249e−15
Std Dev 4.39e−23

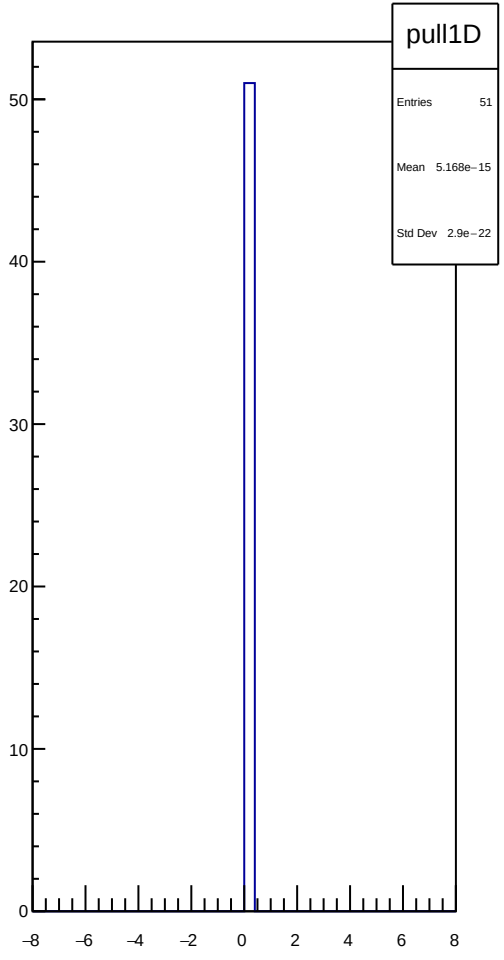

dit_sam2_4eX_slope vs run
χ² / ndf 2.453e−26 / 50
p0 −315.4 ± 0.7258
−310
−312
−314
−316
−318
−320
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−5
−10
−15
−20

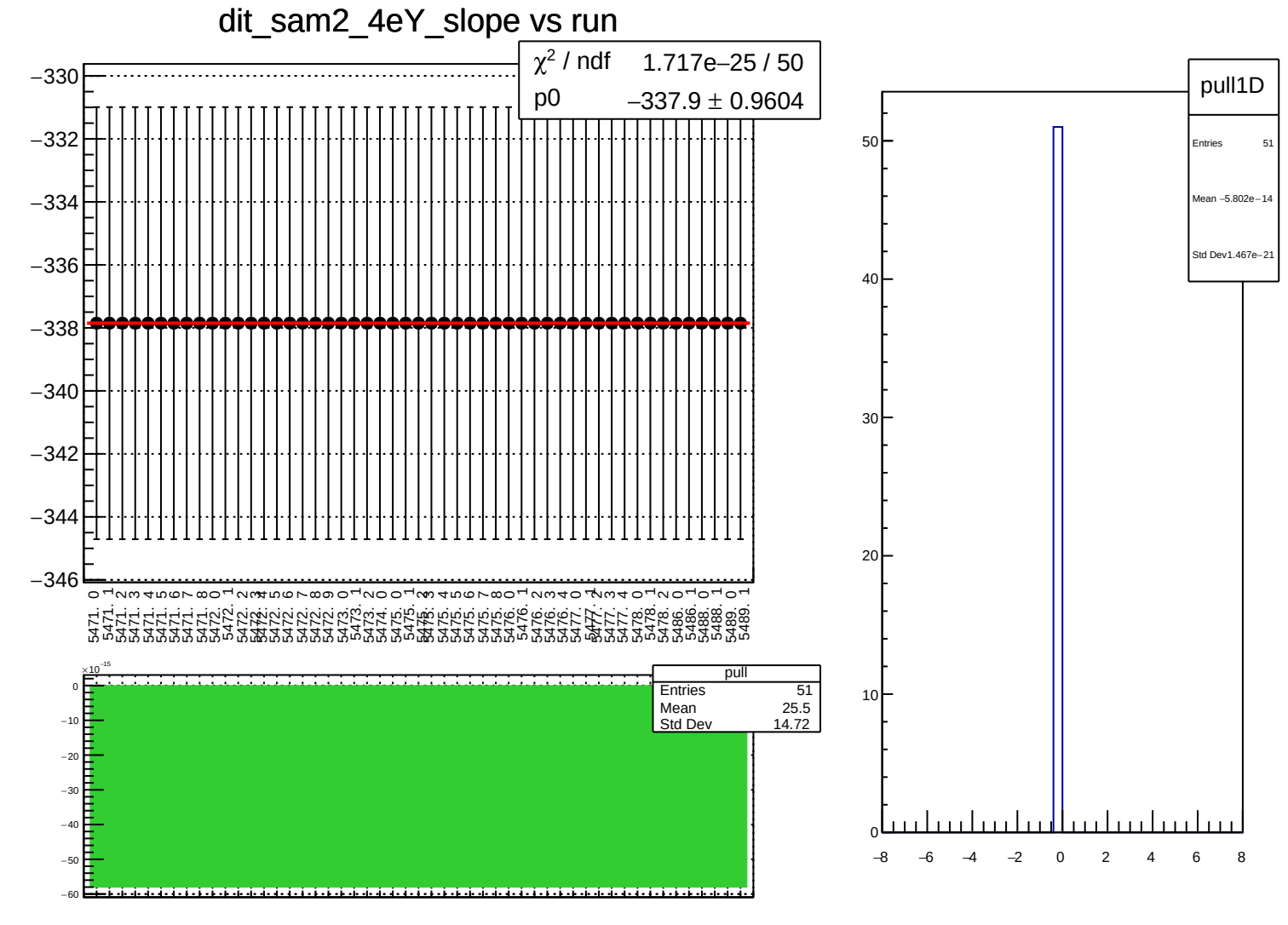

pull1D
Entries 51
Mean −2.193e−14
Std Dev5.187e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

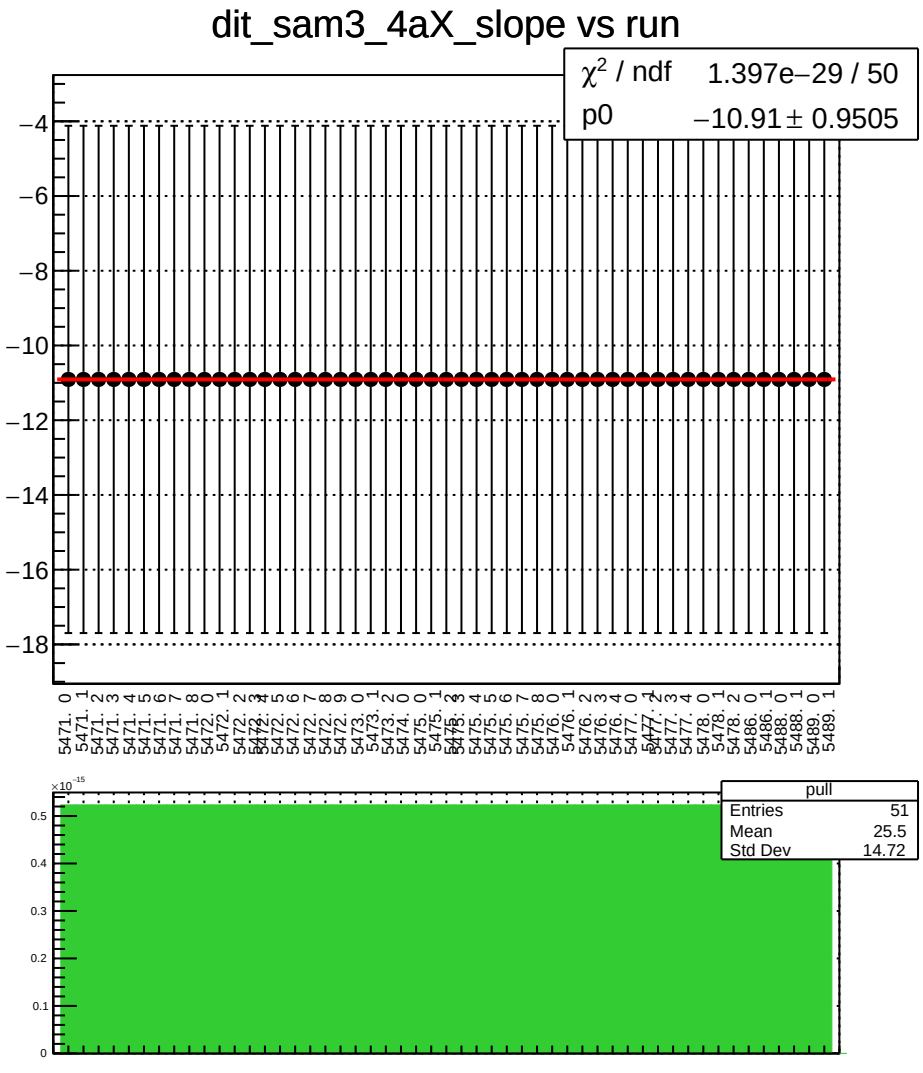

dit_sam2_11X12X_slope vs run
χ² / ndf 7.103e−29 / 50
p0 0.9153 ± 0.1449
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵

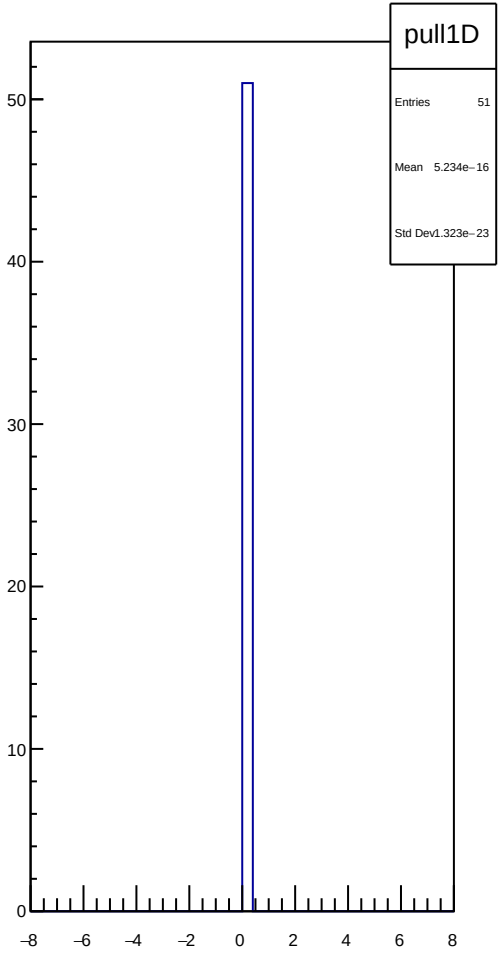

pull1D
Entries 51
Mean 1.18e−15
Std Dev 5.457e−23

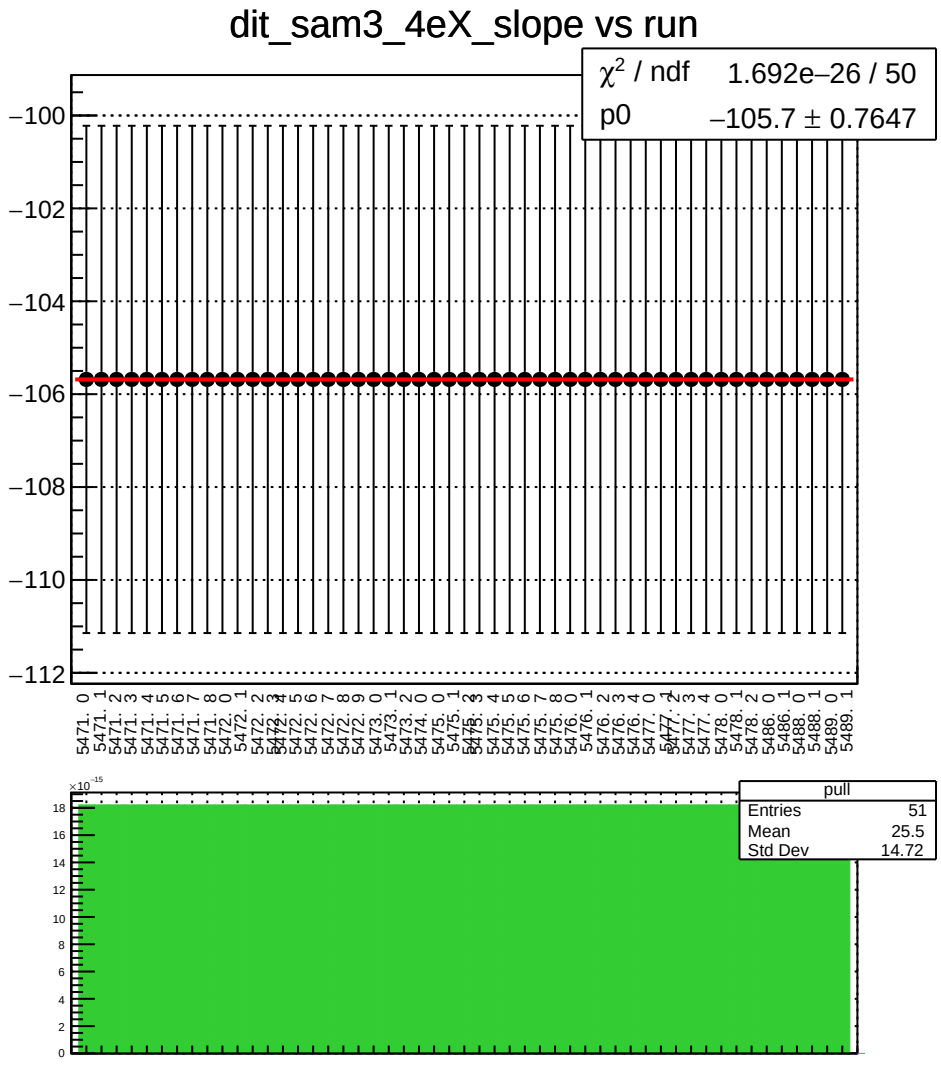

dit_sam2_4aY_slope vs run
χ² / ndf 1.362e−27 / 50
p0 36.31 ± 0.9625
pull
Entries 51
Mean 25.5
Std Dev 14.72

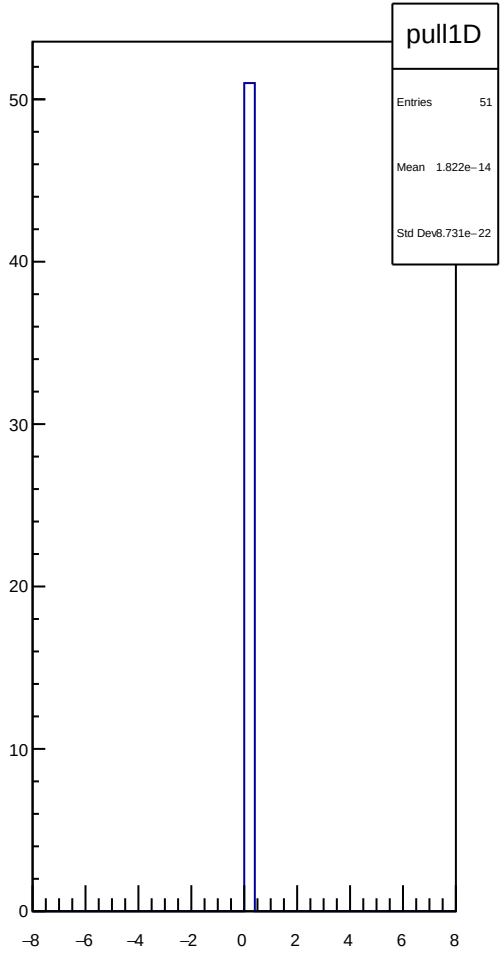

pull1D
Entries 51
Mean 5.168e−15
Std Dev 2.9e−22

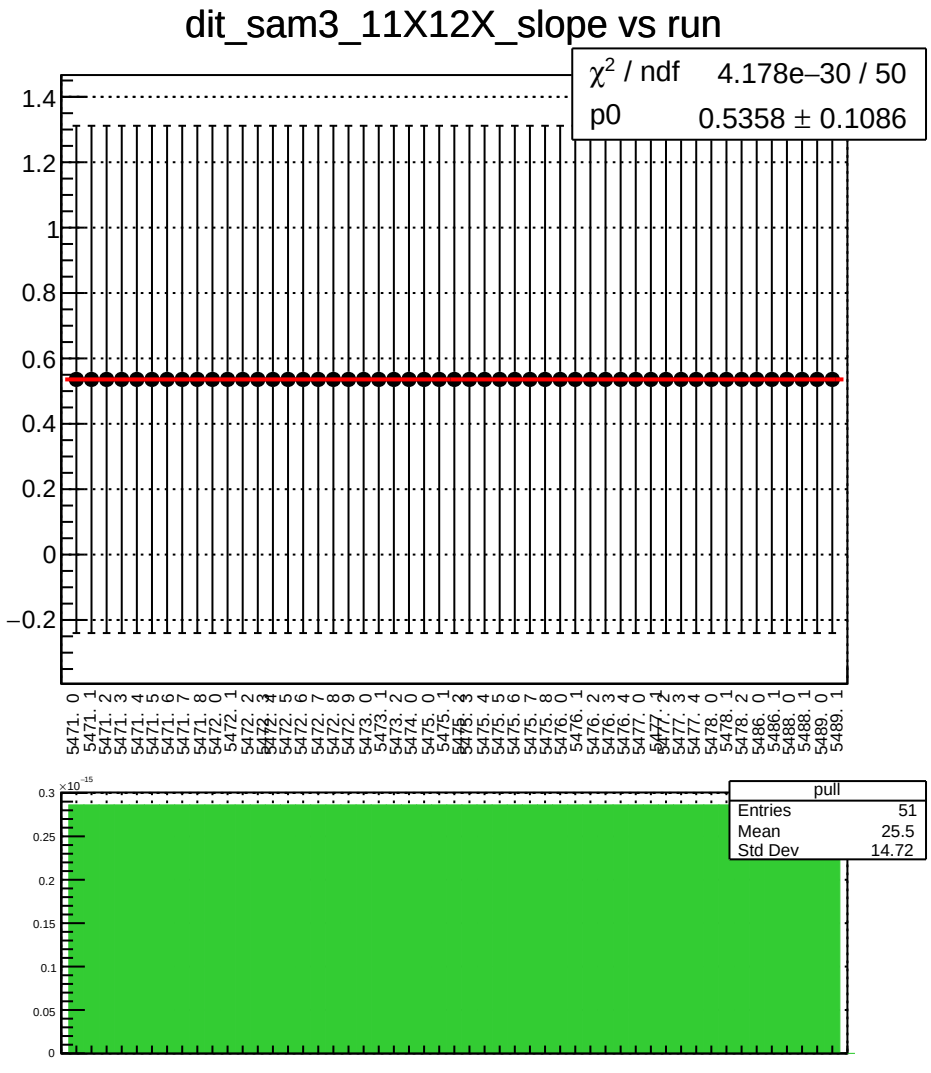

dit_sam2_4eY_slope vs run
χ² / ndf 1.717e−25 / 50
p0 −337.9 ± 0.9604
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −5.802e−14
Std Dev1.467e−21

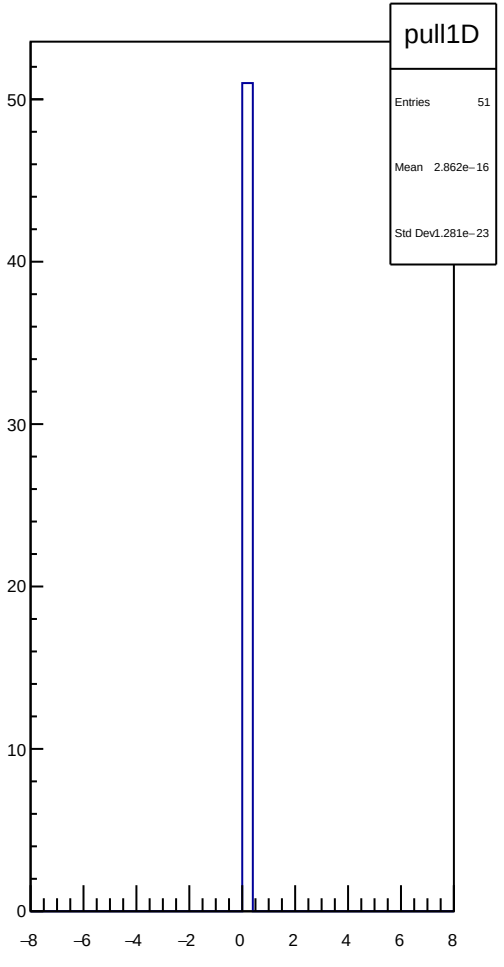

dit_sam3_4aX_slope vs run
χ² / ndf 1.397e−29 / 50
p0 −10.91 ± 0.9505
pull
Entries 51
Mean 25.5
Std Dev 14.72

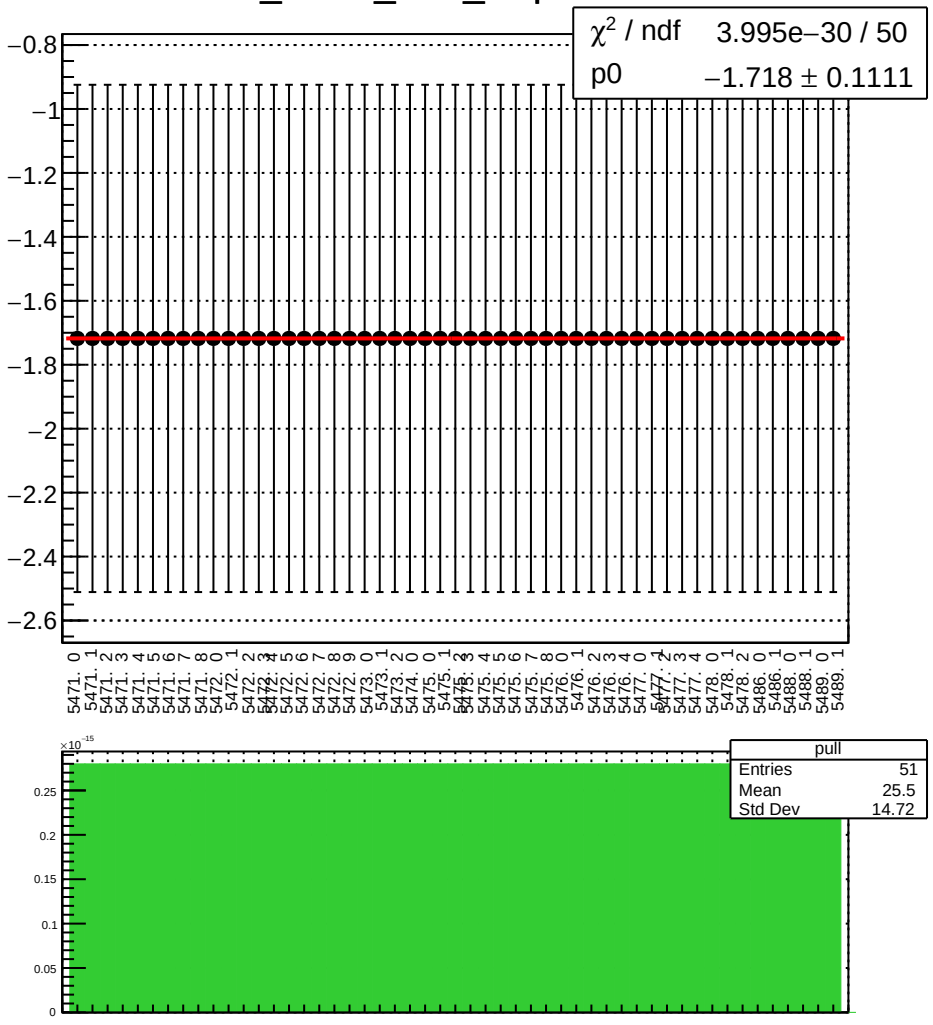

pull1D
Entries 51
Mean 5.234e−16
Std Dev 1.323e−23

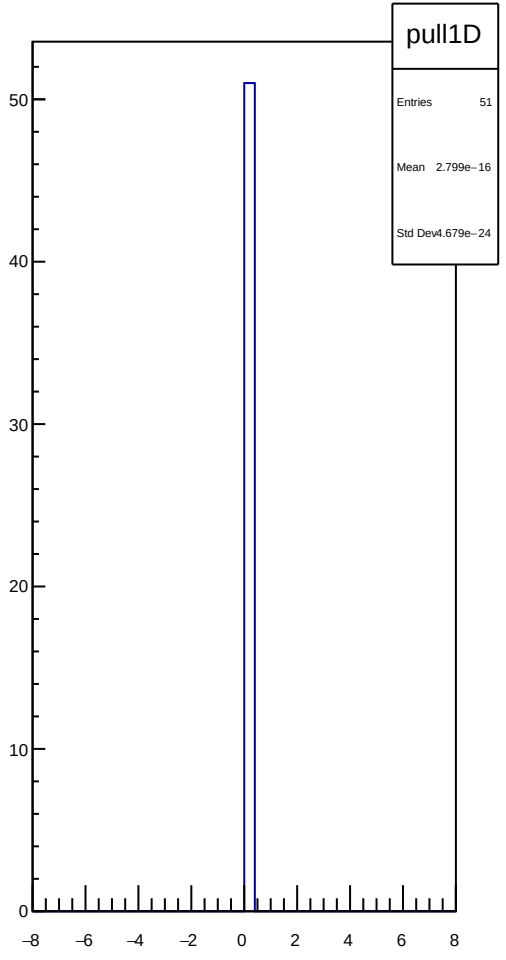

dit_sam3_4eX_slope vs run
χ^2 / ndf 1.692e−26 / 50
p0 −105.7 ± 0.7647
−100
−102
−104
−106
−108
−110
−112
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0

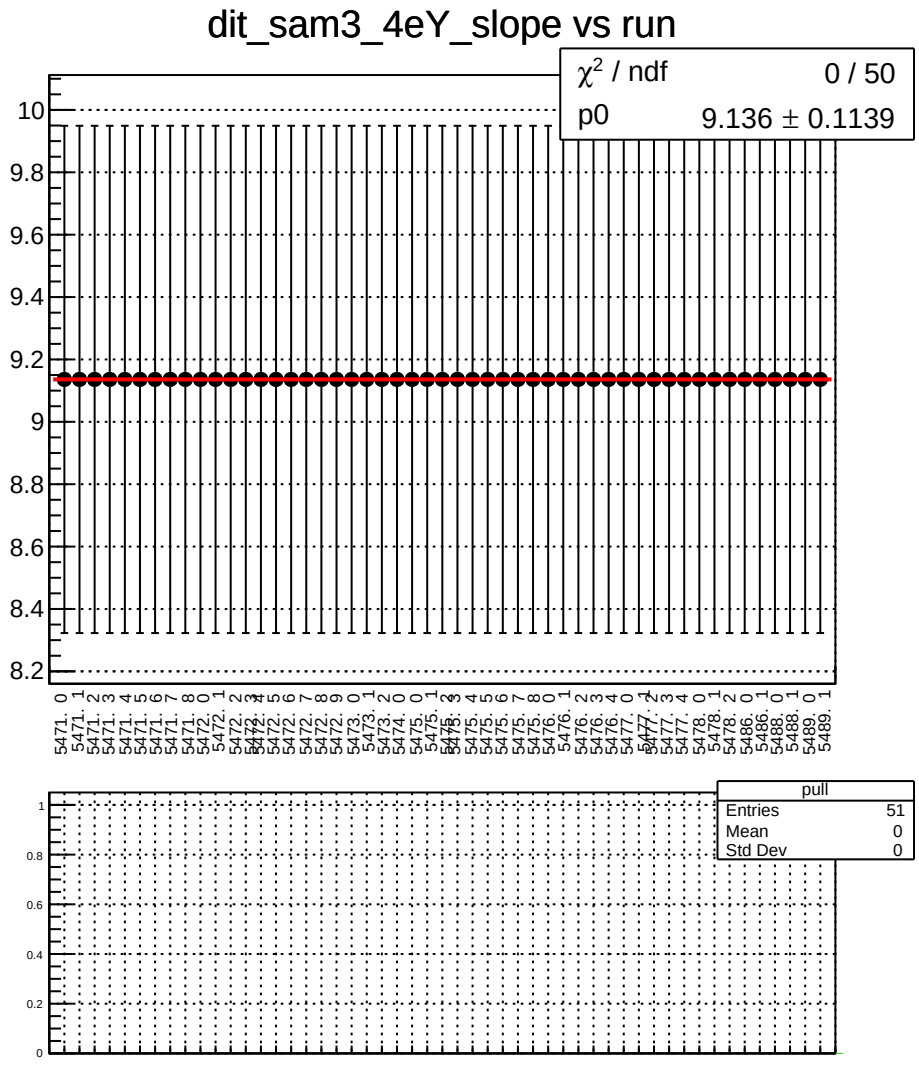

pull1D
Entries 51
Mean 1.822e−14
Std Dev 8.731e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

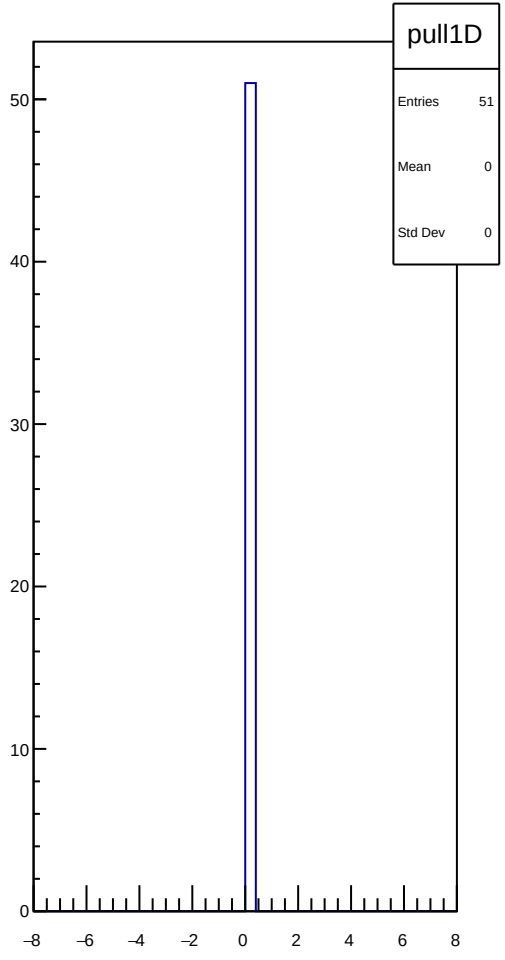

dit_sam3_11X12X_slope vs run
χ² / ndf 4.178e−30 / 50
p0 0.5358 ± 0.1086
pull
Entries 51
Mean 25.5
Std Dev 14.72

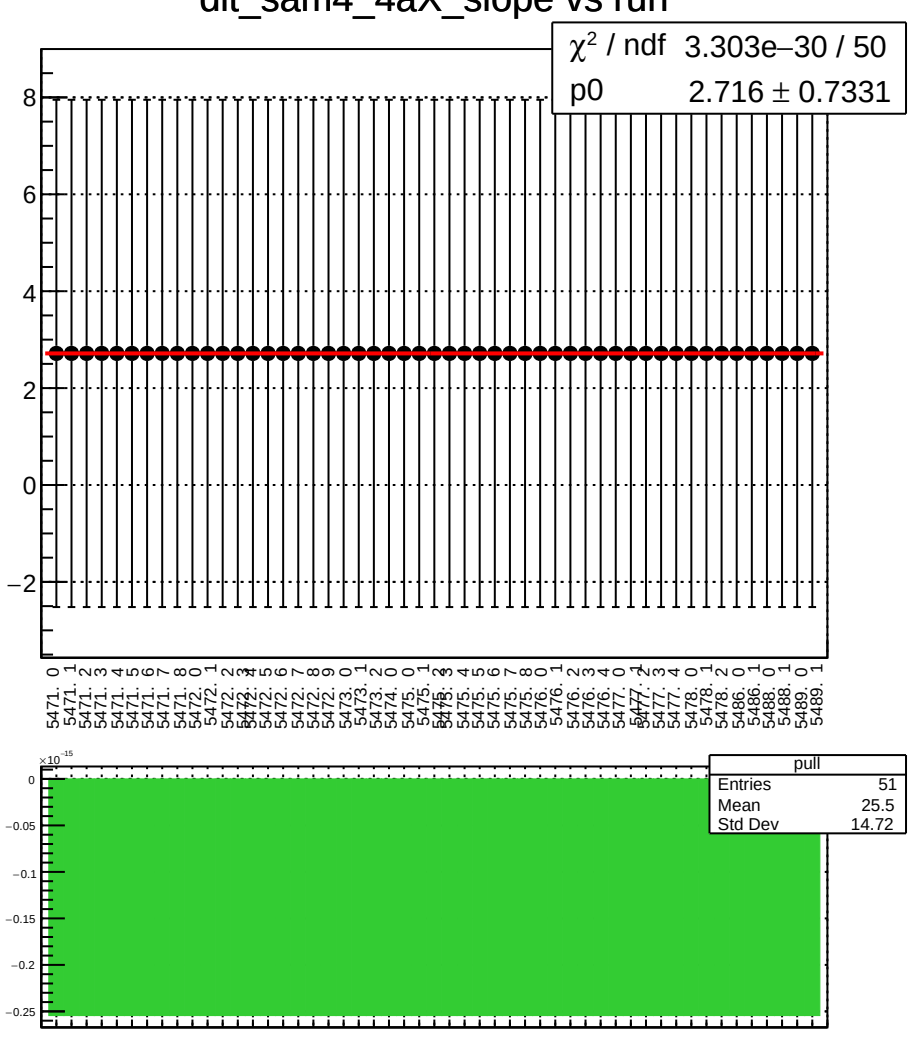

pull1D
Entries 51
Mean 2.862e−16
Std Dev1.281e−23

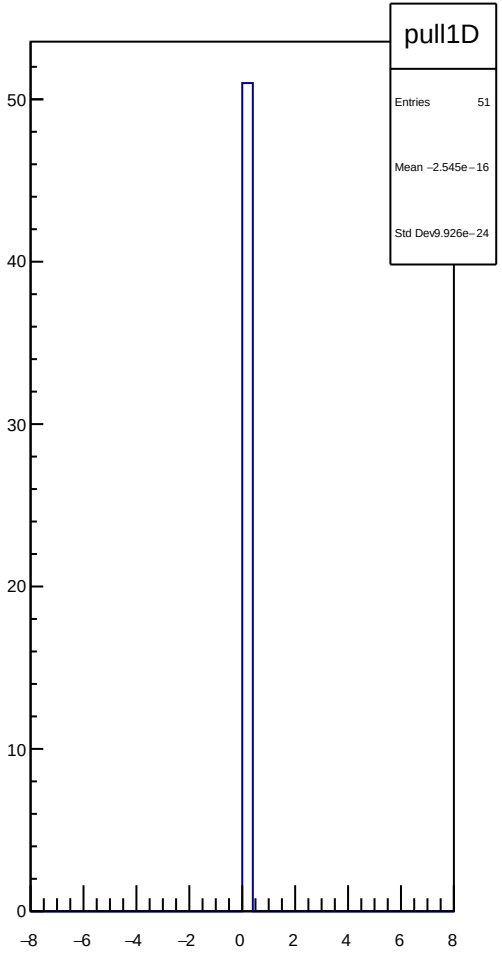

dit_sam3_4aY_slope vs run
χ² / ndf 3.995e−30 / 50
p0 −1.718 ± 0.1111
pull
Entries 51
Mean 25.5
Std Dev 14.72

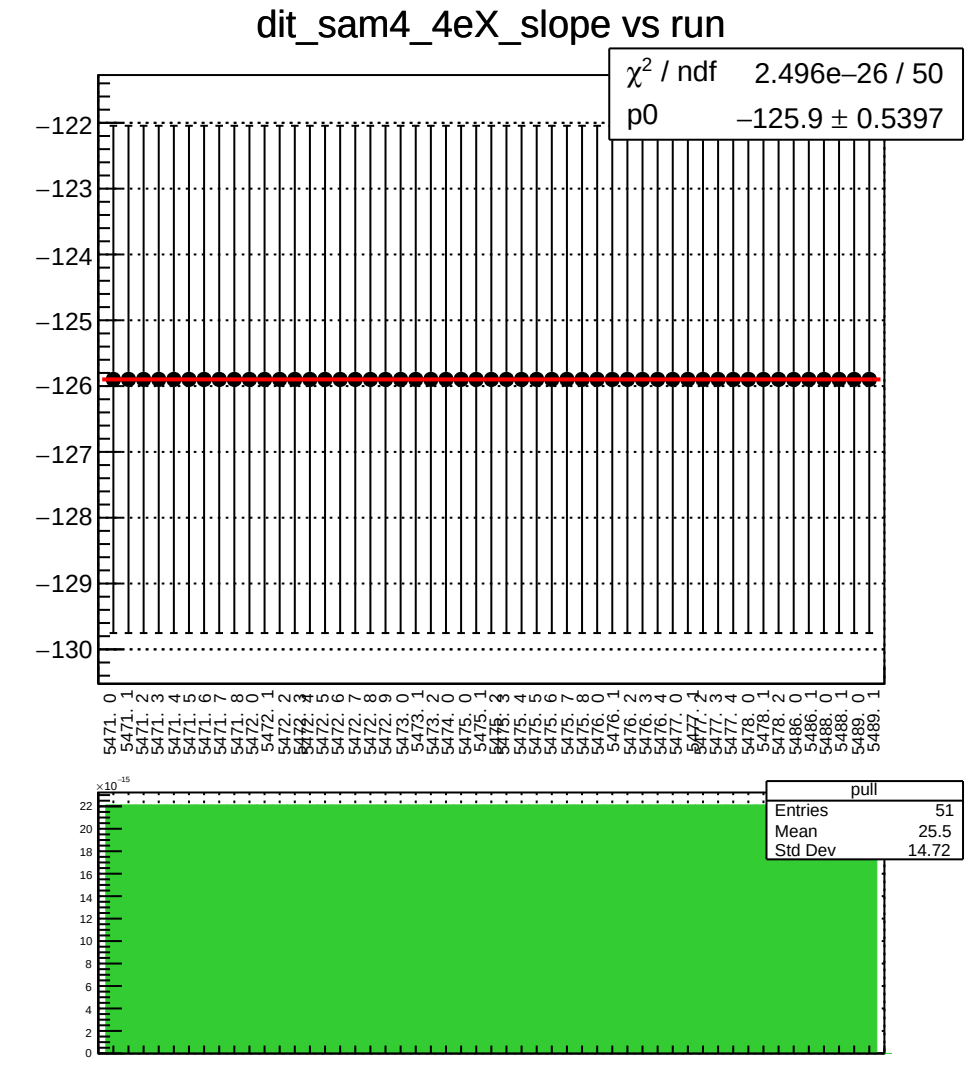

pull1D
Entries 51
Mean 2.799e−16
Std Dev 4.679e−24

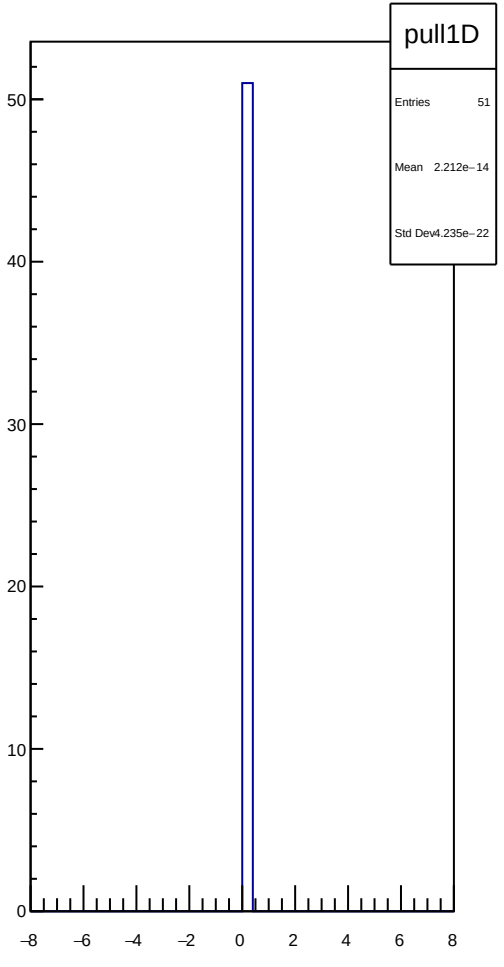

dit_sam3_4eY_slope vs run
χ² / ndf 0 / 50
p0 9.136 ± 0.1139
pull
Entries 51
Mean 0
Std Dev 0

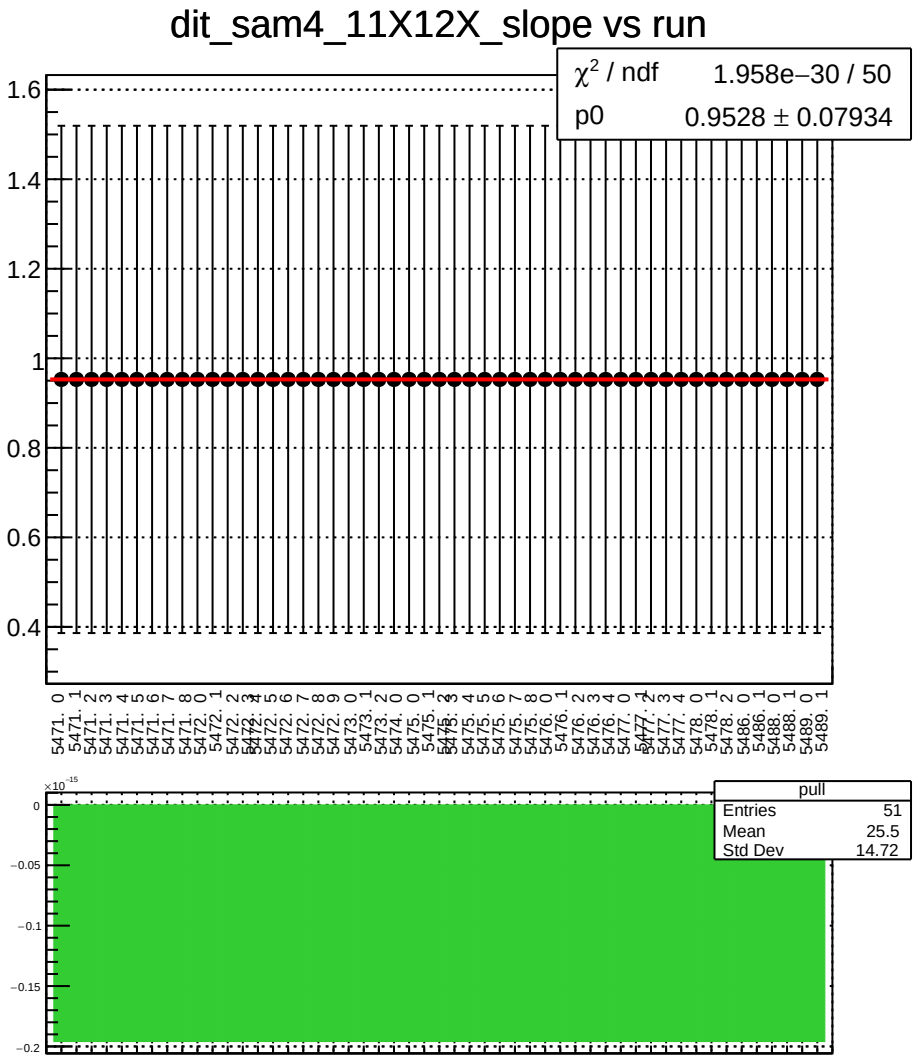

pull1D
Entries 51
Mean 0
Std Dev 0

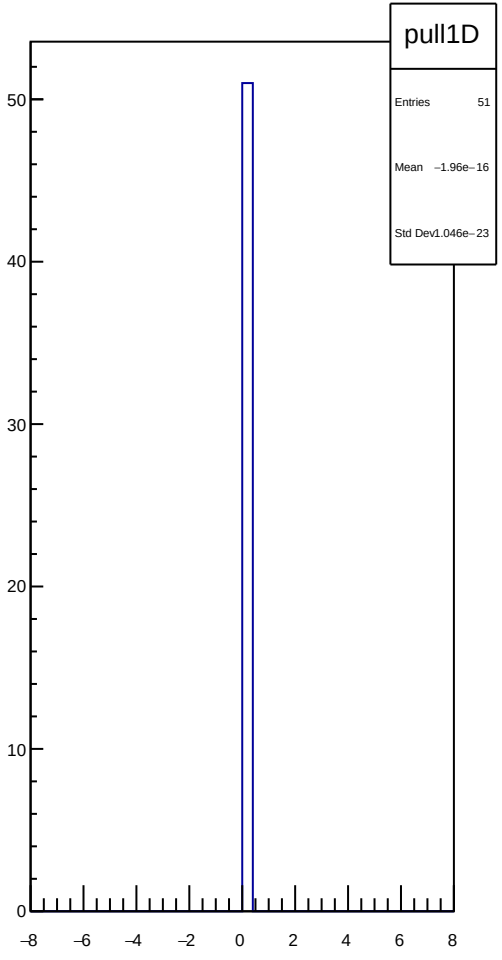

dit_sam4_4aX_slope vs run
χ² / ndf 3.303e−30 / 50
p0 2.716 ± 0.7331
pull
Entries 51
Mean 25.5
Std Dev 14.72

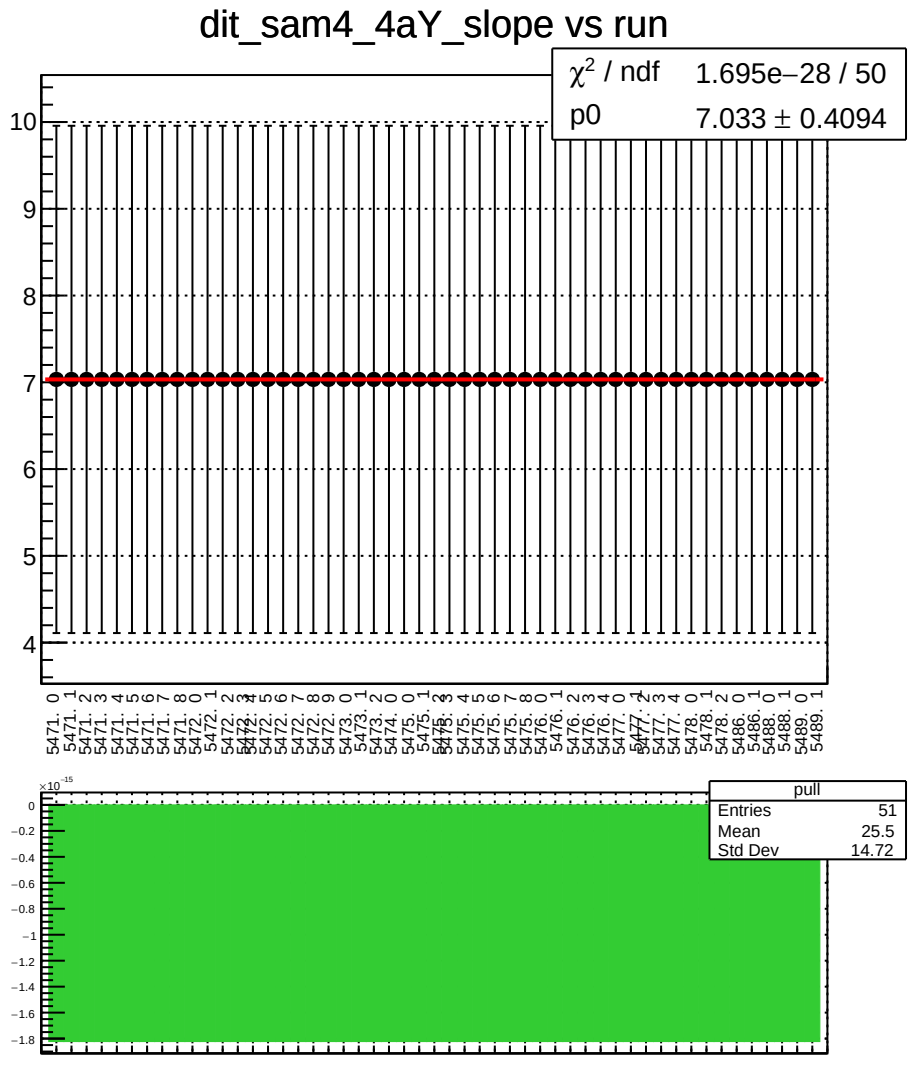

pull1D
Entries 51
Mean −2.545e−16
Std Dev 9.926e−24

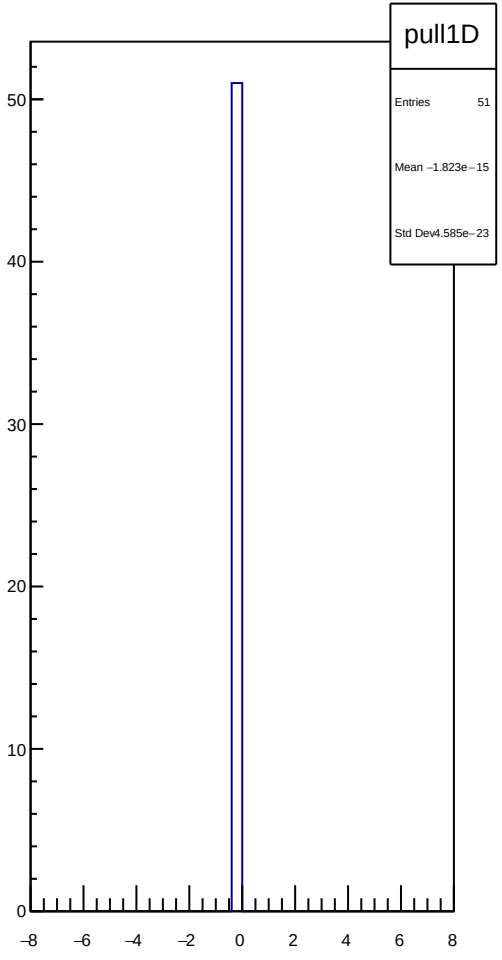

dit_sam4_4eX_slope vs run
χ² / ndf 2.496e−26 / 50
p0 −125.9 ± 0.5397
−122
−123
−124
−125
−126
−127
−128
−129
−130
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0

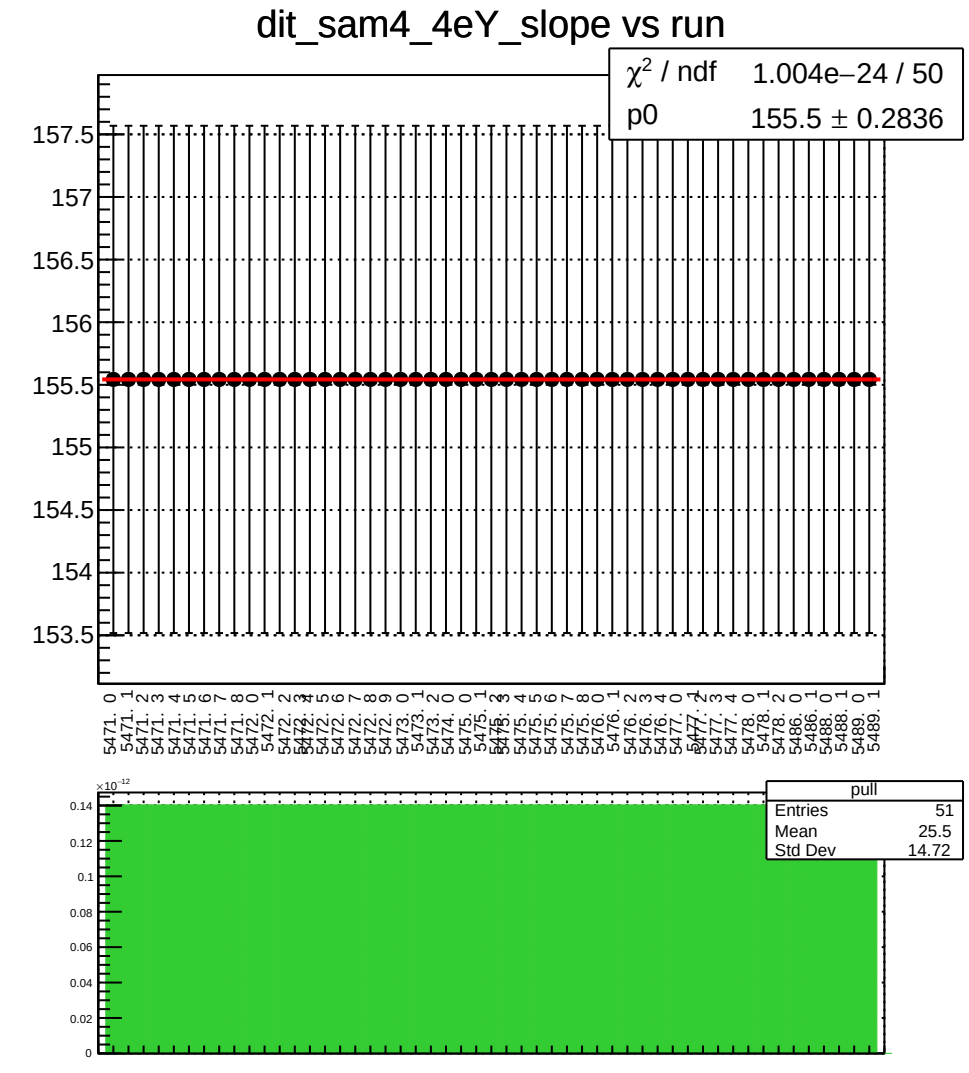

pull1D
Entries 51
Mean 2.212e−14
Std Dev4.235e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

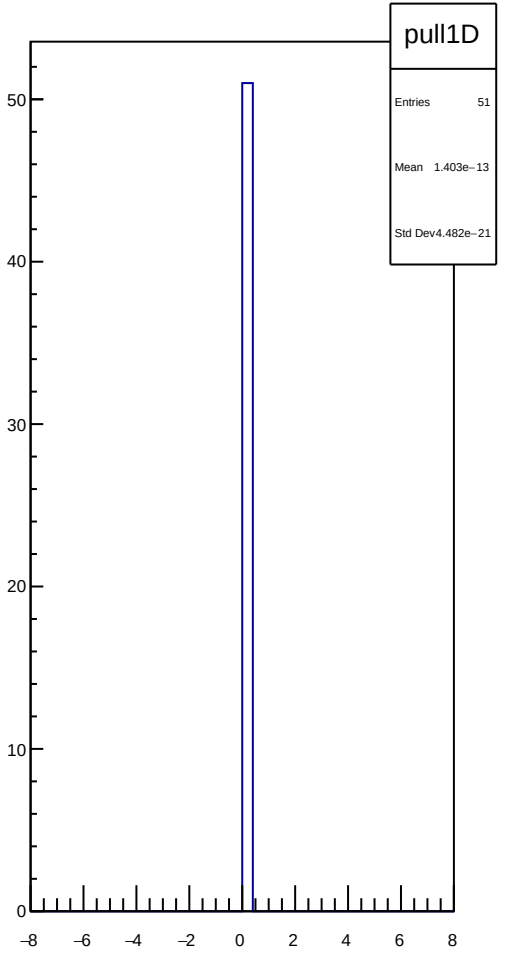

dit_sam4_11X12X_slope vs run
χ² / ndf 1.958e−30 / 50
p0 0.9528 ± 0.07934
pull
Entries 51
Mean 25.5
Std Dev 14.72

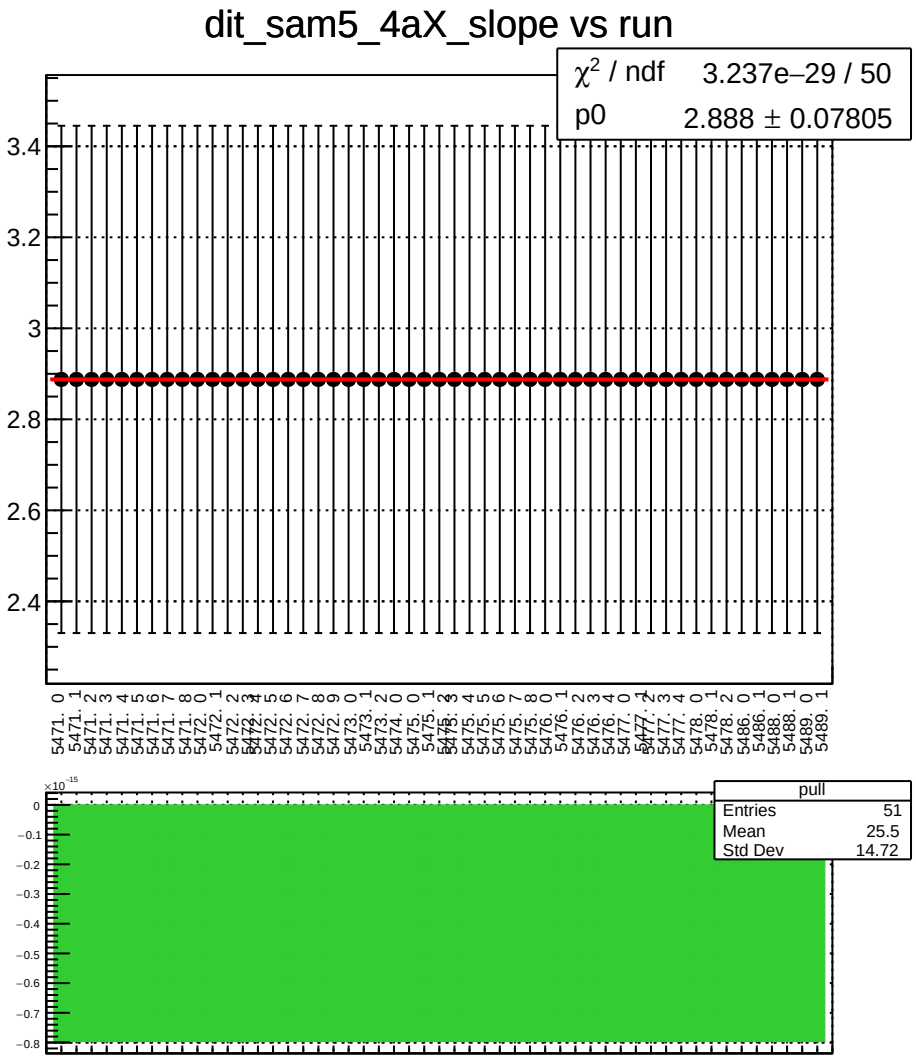

pull1D
Entries 51
Mean −1.96e−16
Std Dev1.046e−23

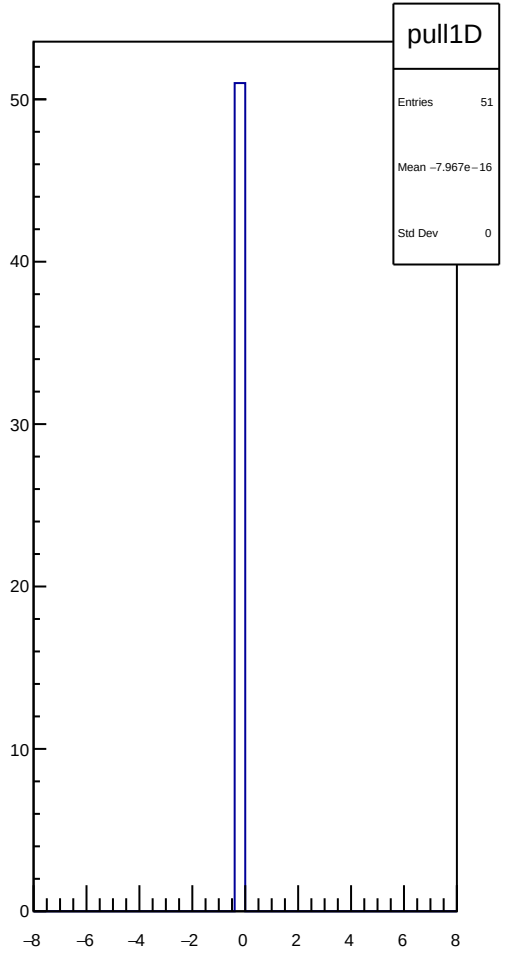

dit_sam4_4aY_slope vs run
χ^2 / ndf 1.695e−28 / 50
p0 7.033 ± 0.4094
pull
Entries 51
Mean 25.5
Std Dev 14.72

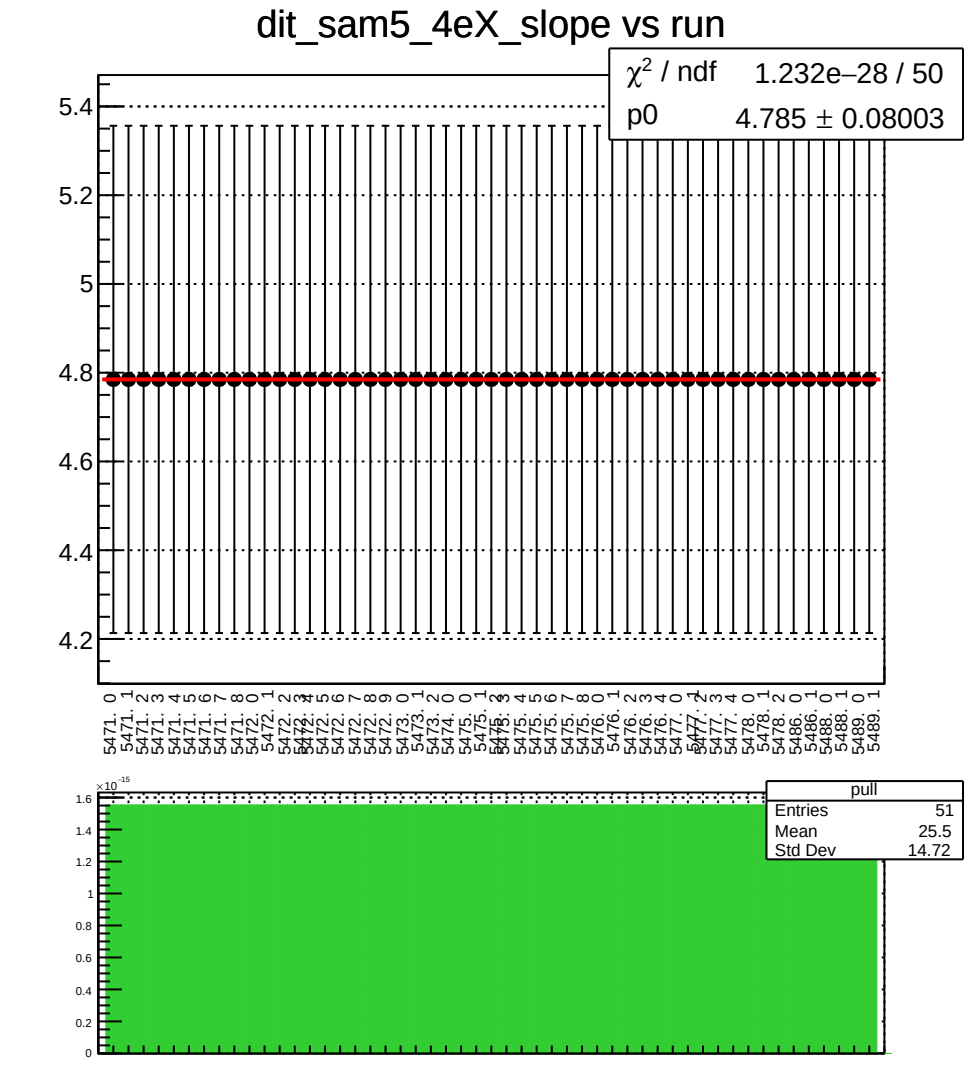

pull1D
Entries 51
Mean −1.823e−15
Std Dev4.585e−23

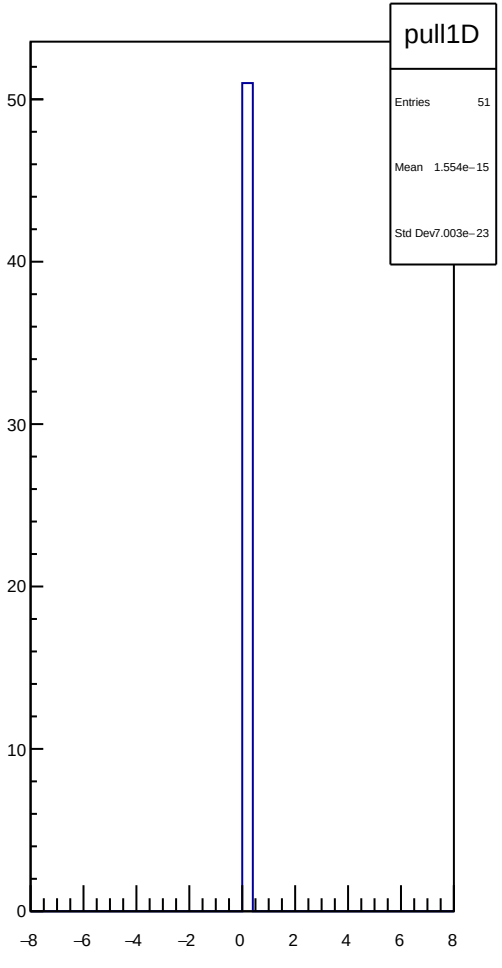

dit_sam4_4eY_slope vs run
χ² / ndf 1.004e−24 / 50
p0 155.5 ± 0.2836
157.5
157
156.5
156
155.5
155
154.5
154
153.5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹²
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

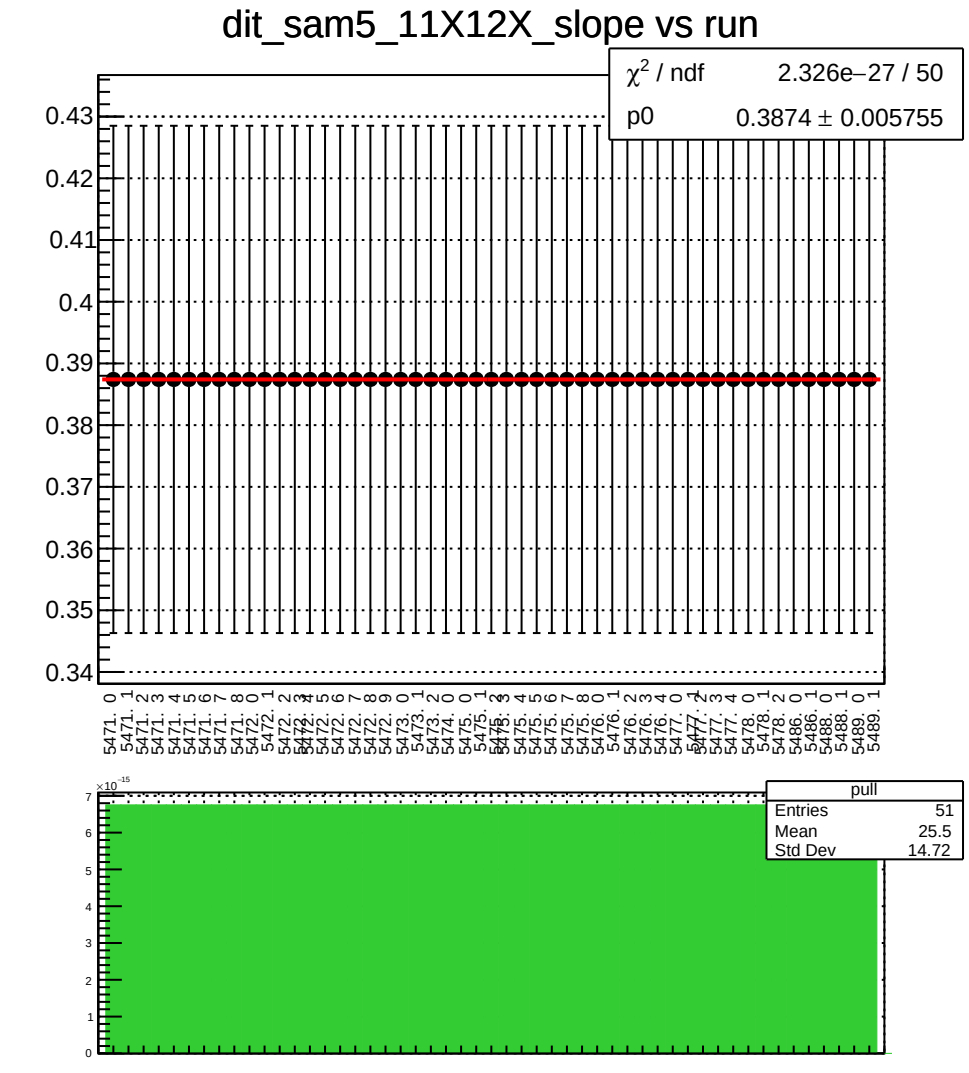

pull1D
Entries 51
Mean 1.403e−13
Std Dev 4.482e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

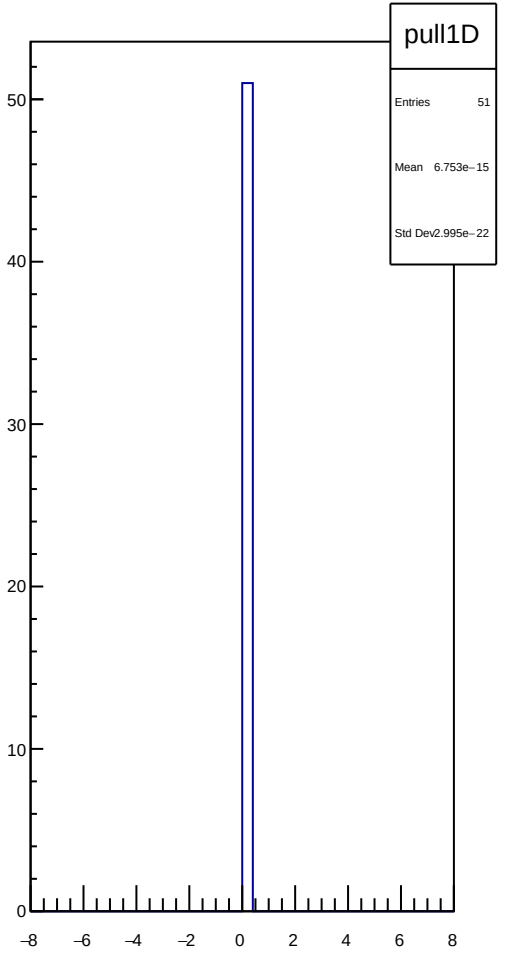

dit_sam5_4aX_slope vs run
χ² / ndf 3.237e−29 / 50
p0 2.888 ± 0.07805
3.4
3.2
3
2.8
2.6
2.4
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8

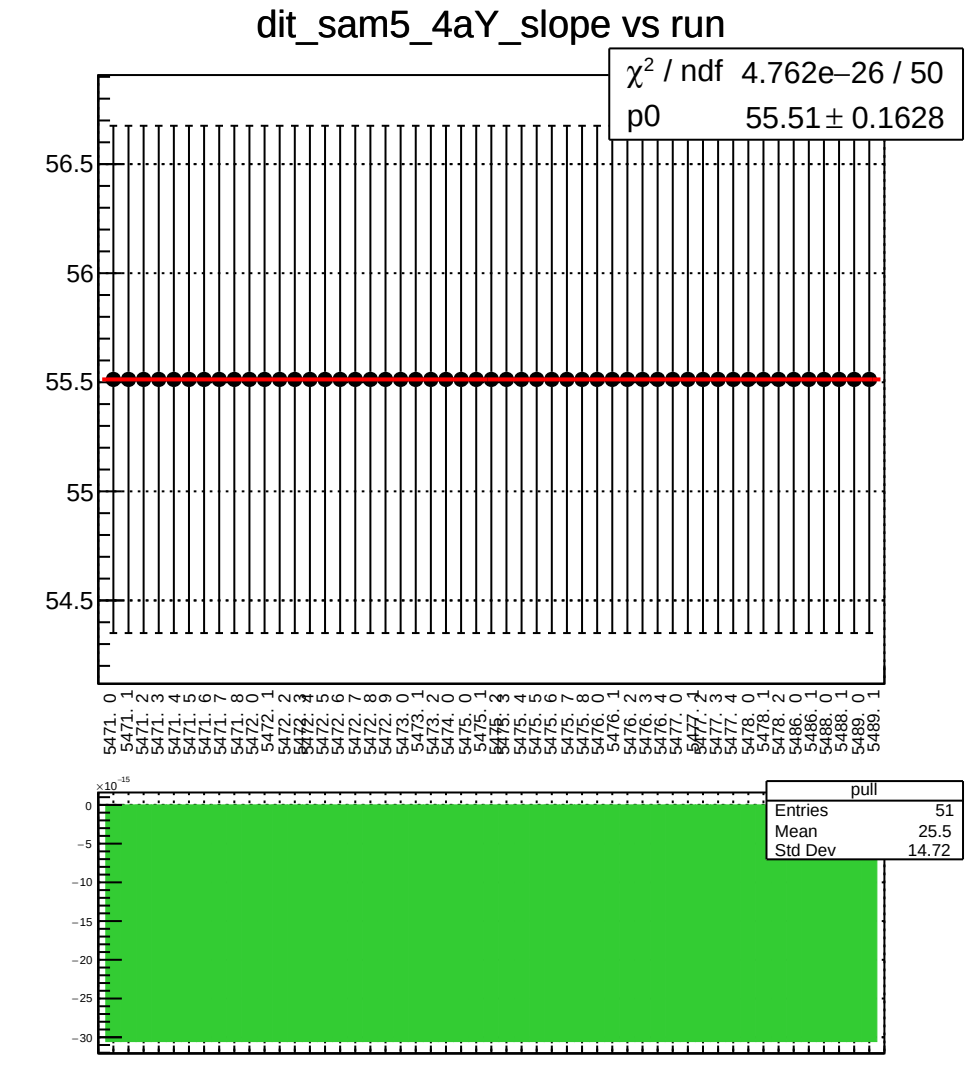

pull1D
Entries 51
Mean −7.967e−16
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

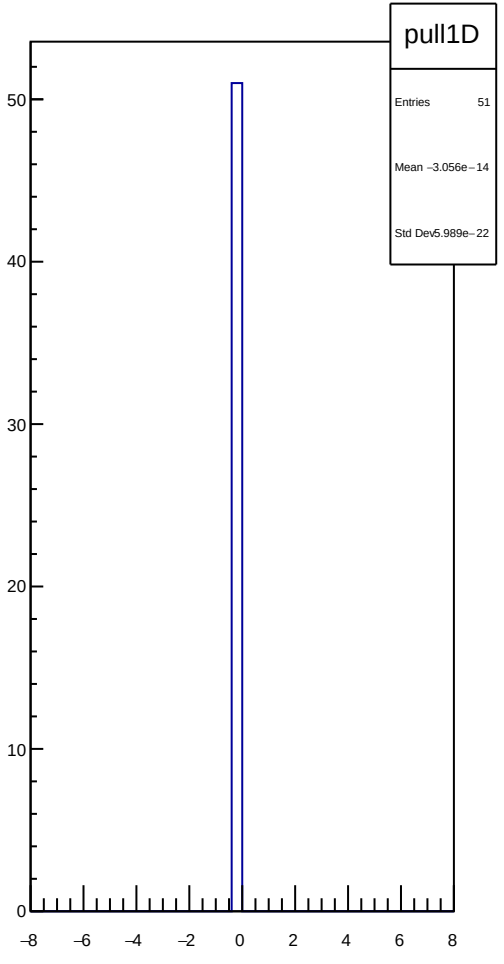

dit_sam5_4eX_slope vs run
χ² / ndf 1.232e−28 / 50
p0 4.785 ± 0.08003
pull
Entries 51
Mean 25.5
Std Dev 14.72

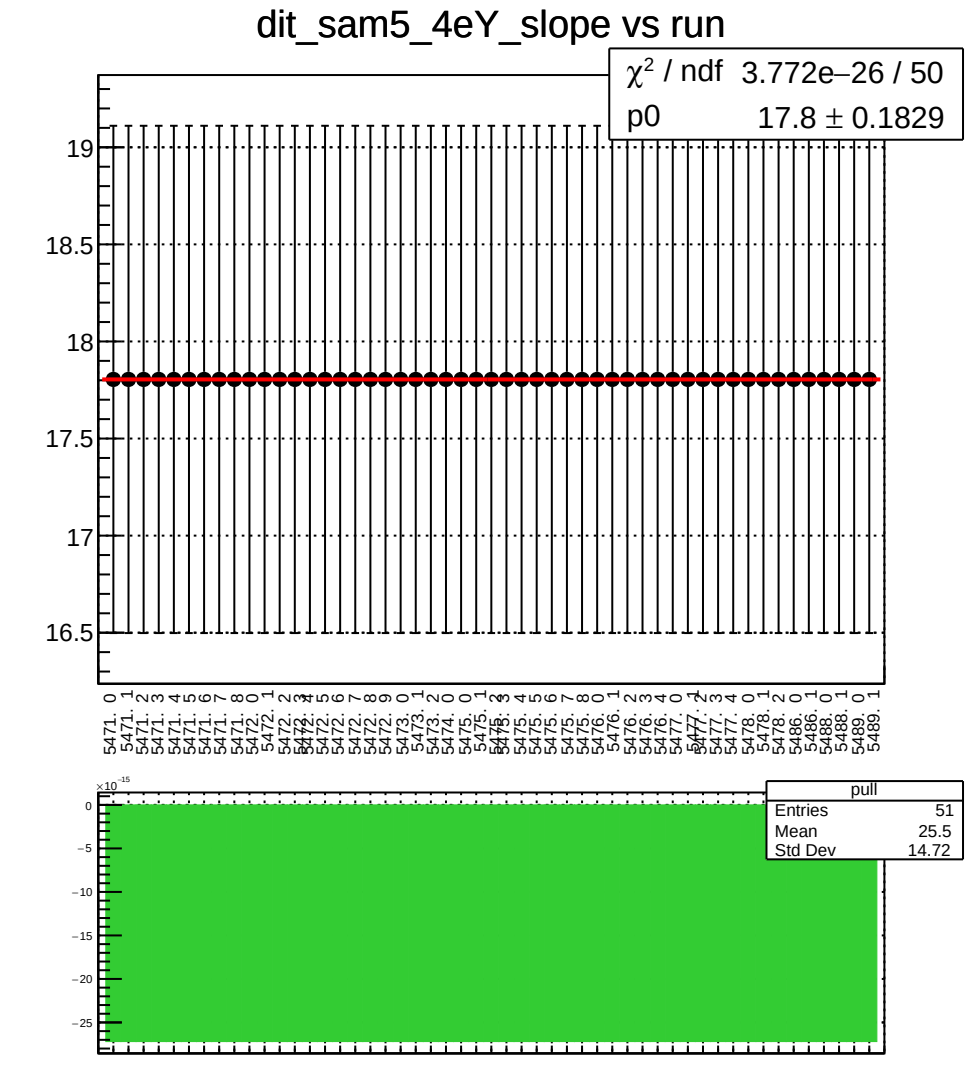

pull1D
Entries 51
Mean 1.554e−15
Std Dev7.003e−23

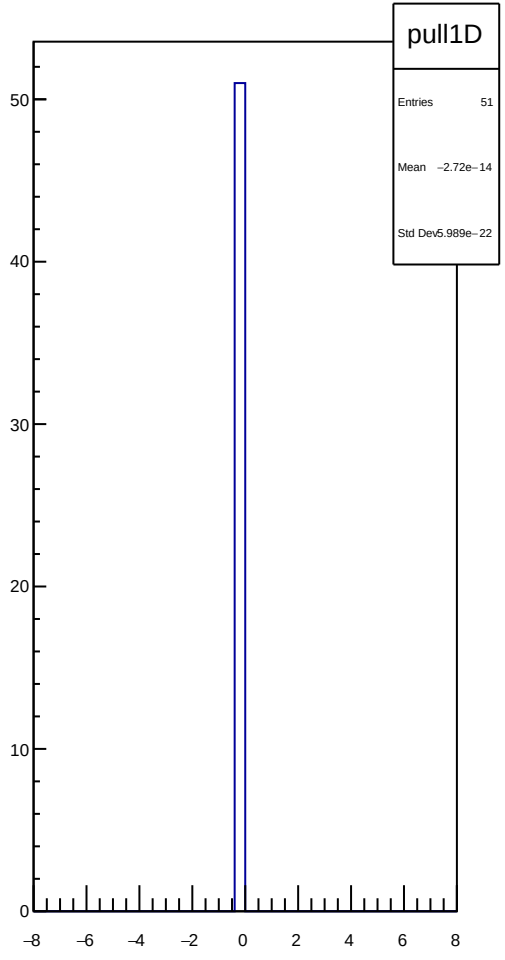

dit_sam5_11X12X_slope vs run
χ² / ndf 2.326e−27 / 50
p0 0.3874 ± 0.005755
0.43
0.42
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
7
6
5
4
3
2
1
0

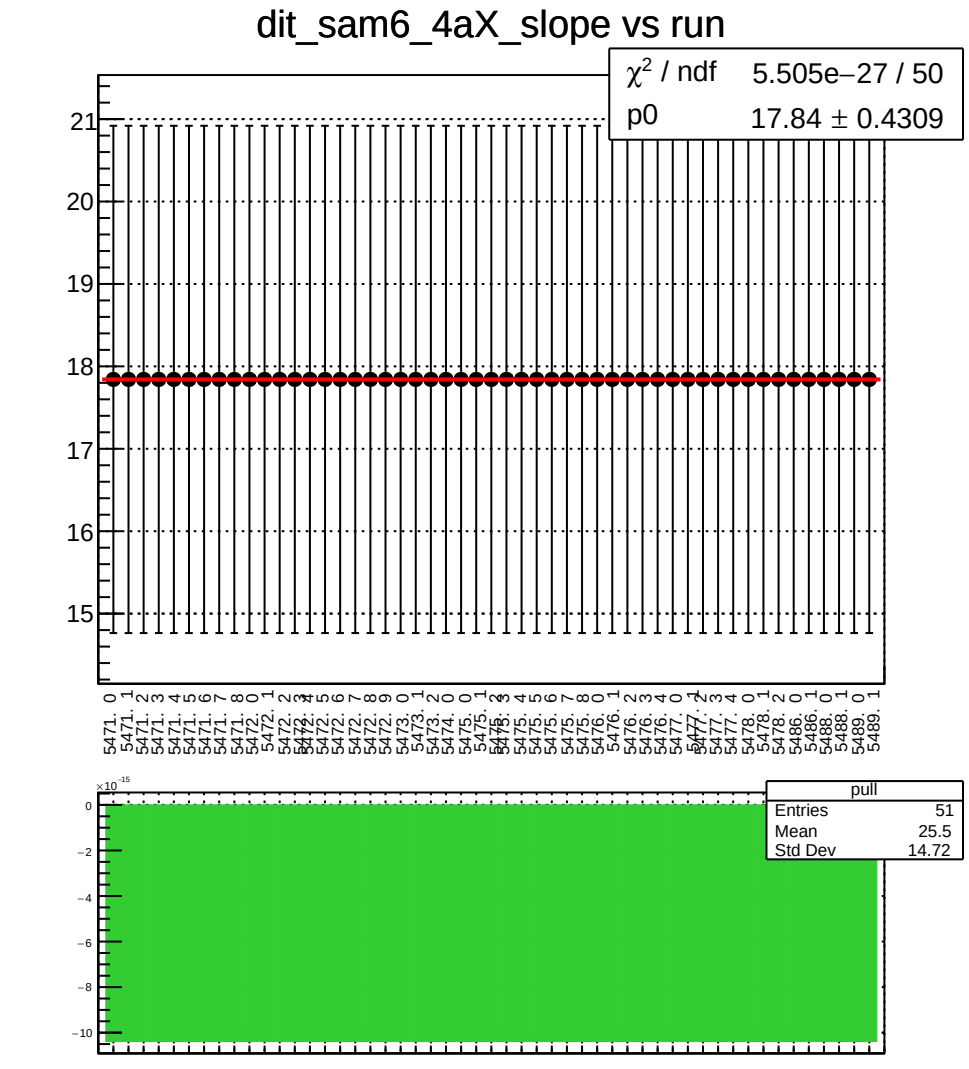

pull1D
Entries 51
Mean 6.753e−15
Std Dev 2.995e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

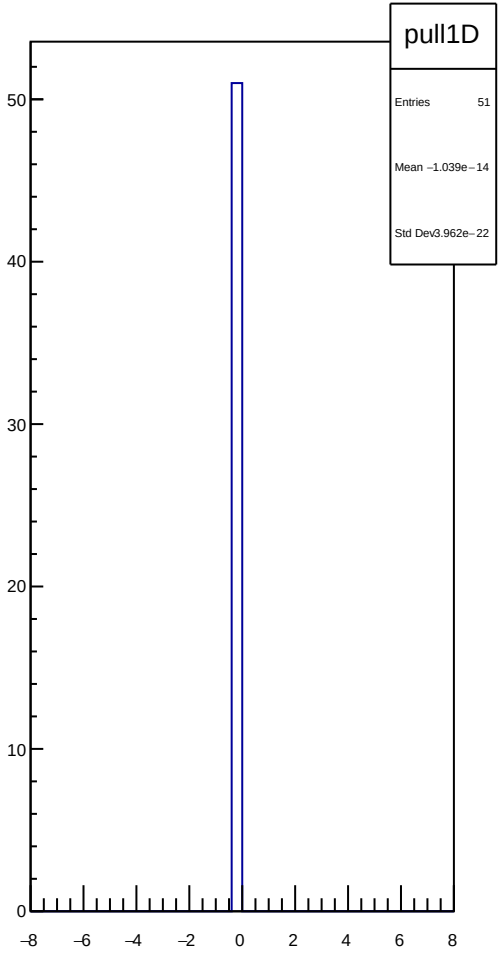

dit_sam5_4aY_slope vs run
χ² / ndf 4.762e−26 / 50
p0 55.51 ± 0.1628
56.5
56
55.5
55
54.5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30

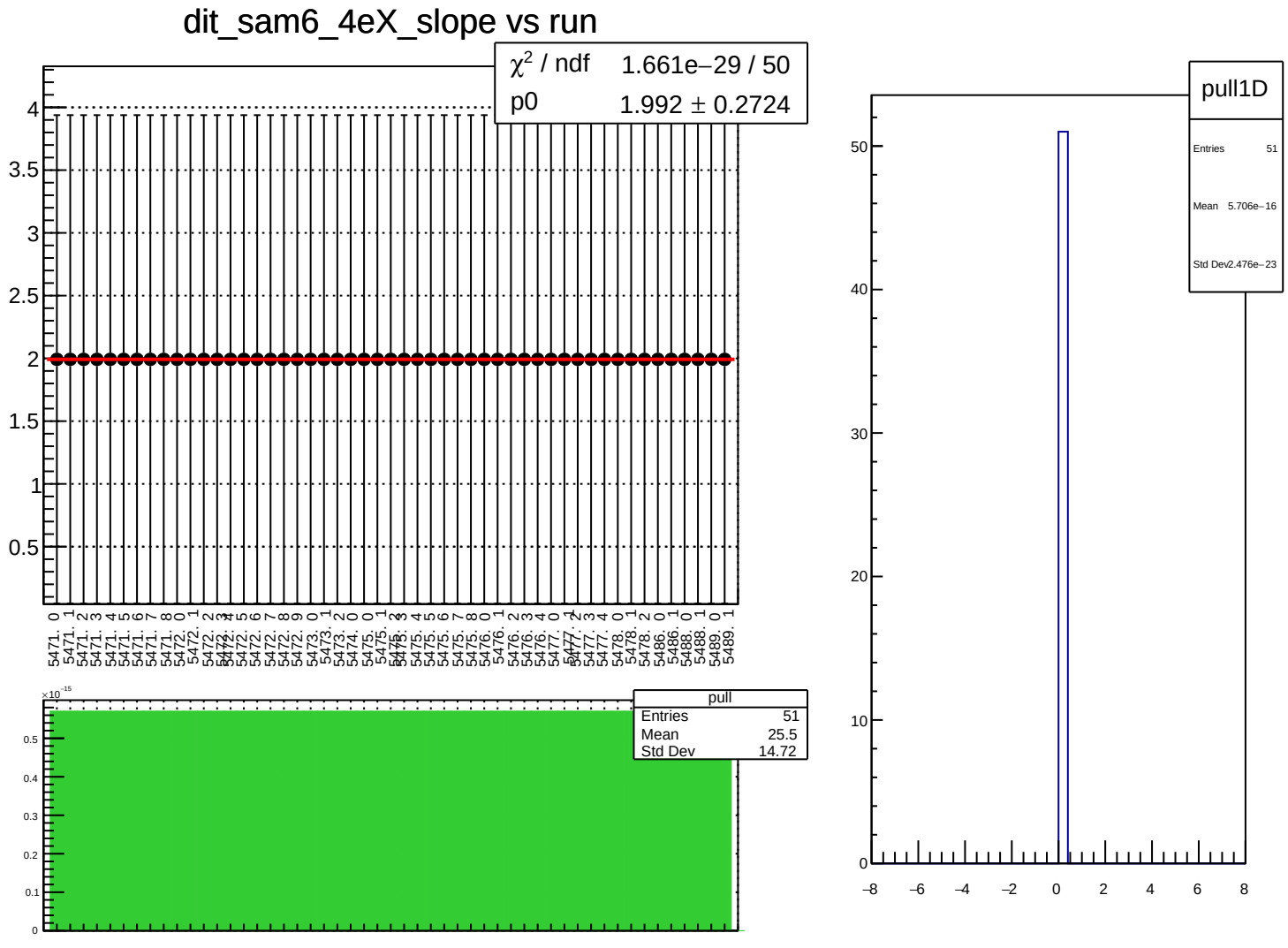

pull1D
Entries 51
Mean −3.056e−14
Std Dev 5.989e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

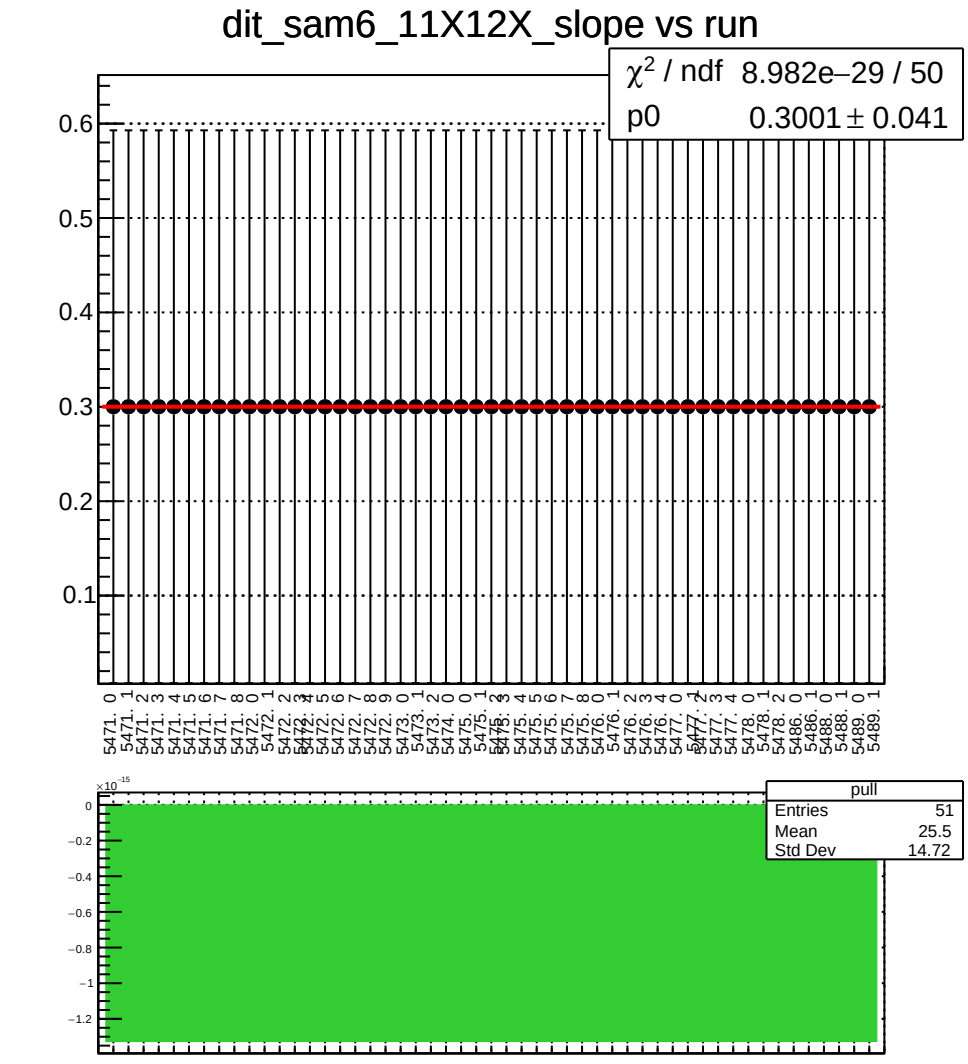

dit_sam5_4eY_slope vs run
χ² / ndf 3.772e−26 / 50
p0 17.8 ± 0.1829
19
18.5
18
17.5
17
16.5
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−5
−10
−15
−20
−25

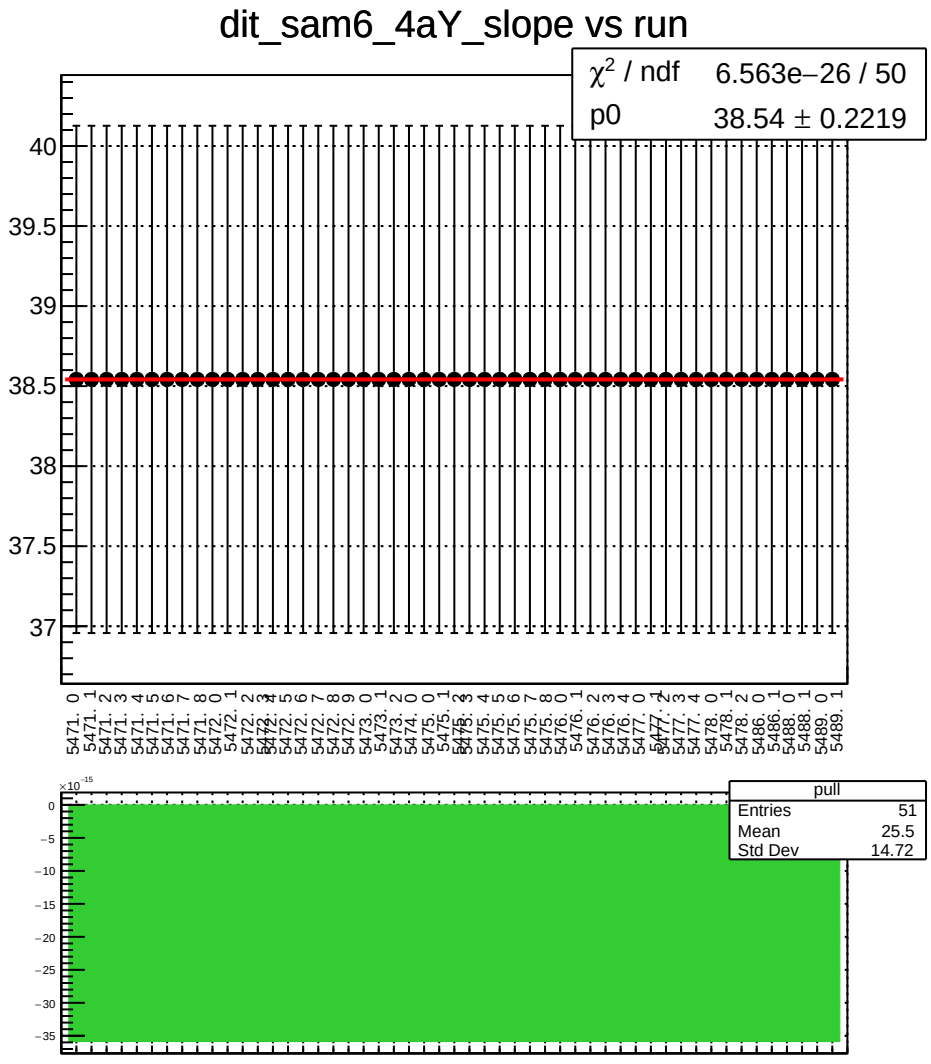

pull1D
Entries 51
Mean −2.72e−14
Std Dev 5.989e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

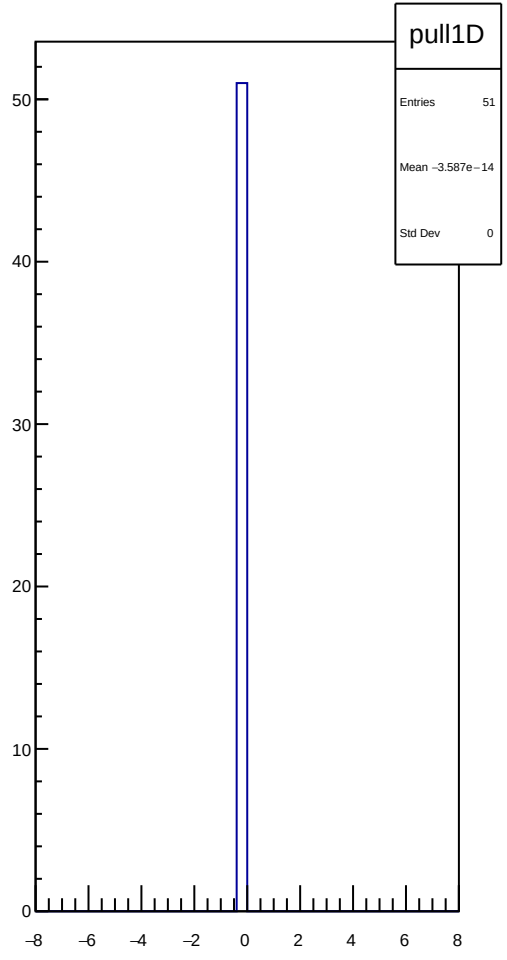

dit_sam6_4aX_slope vs run
χ² / ndf 5.505e−27 / 50
p0 17.84 ± 0.4309
pull
Entries 51
Mean 25.5
Std Dev 14.72

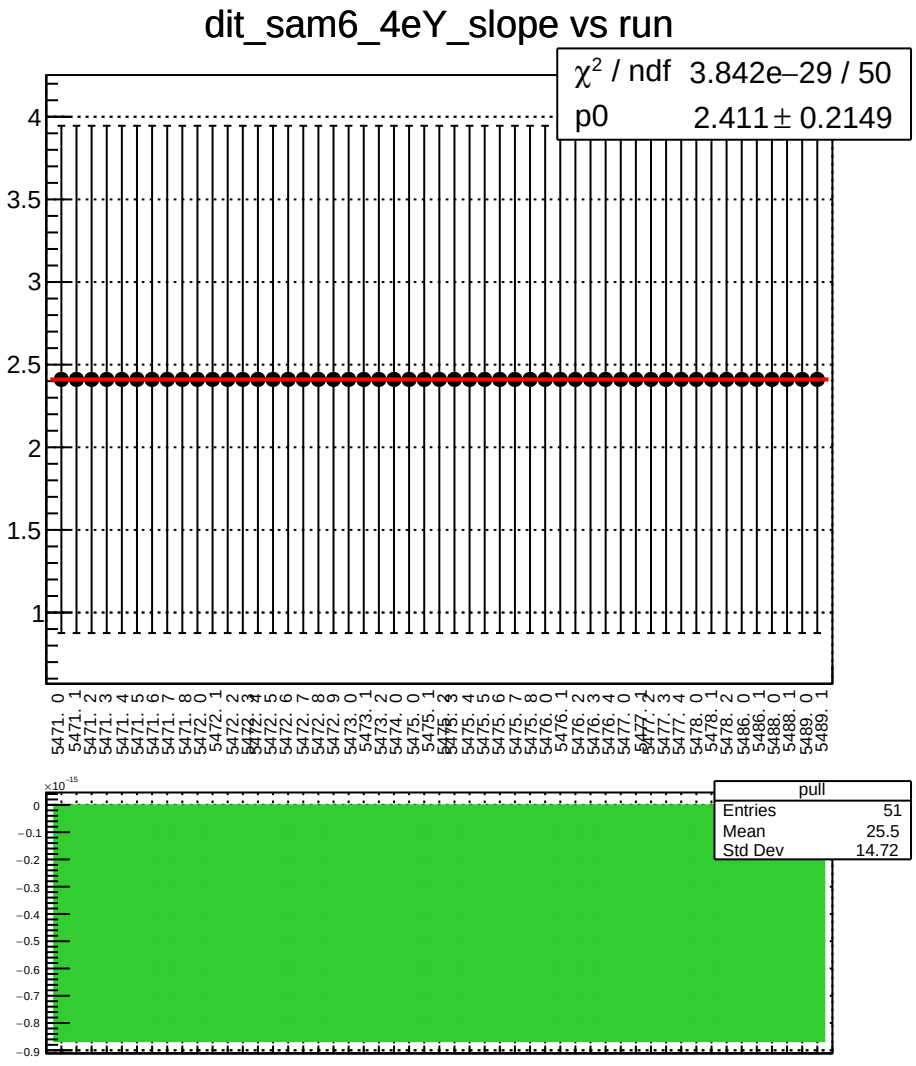

pull1D
Entries 51
Mean −1.039e−14
Std Dev 3.962e−22

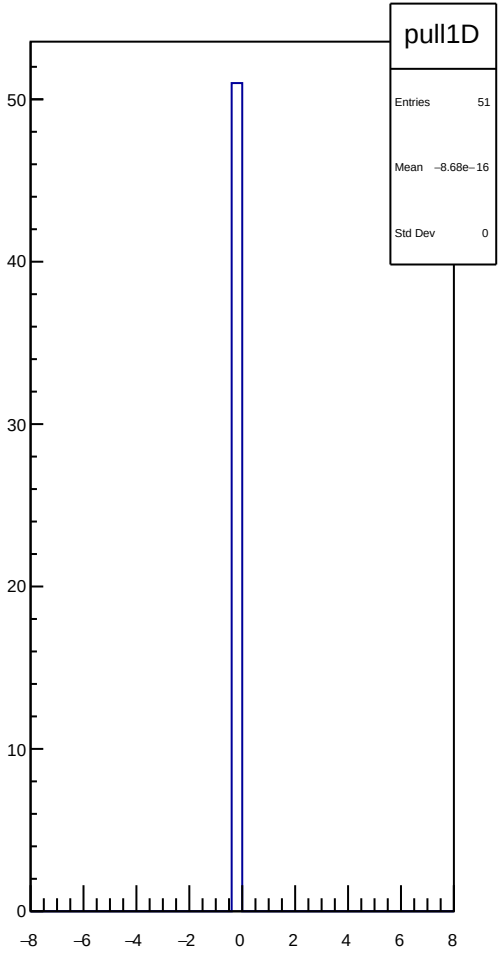

dit_sam6_4eX_slope vs run
χ² / ndf 1.661e−29 / 50
p0 1.992 ± 0.2724
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean 5.706e−16
Std Dev2.476e−23

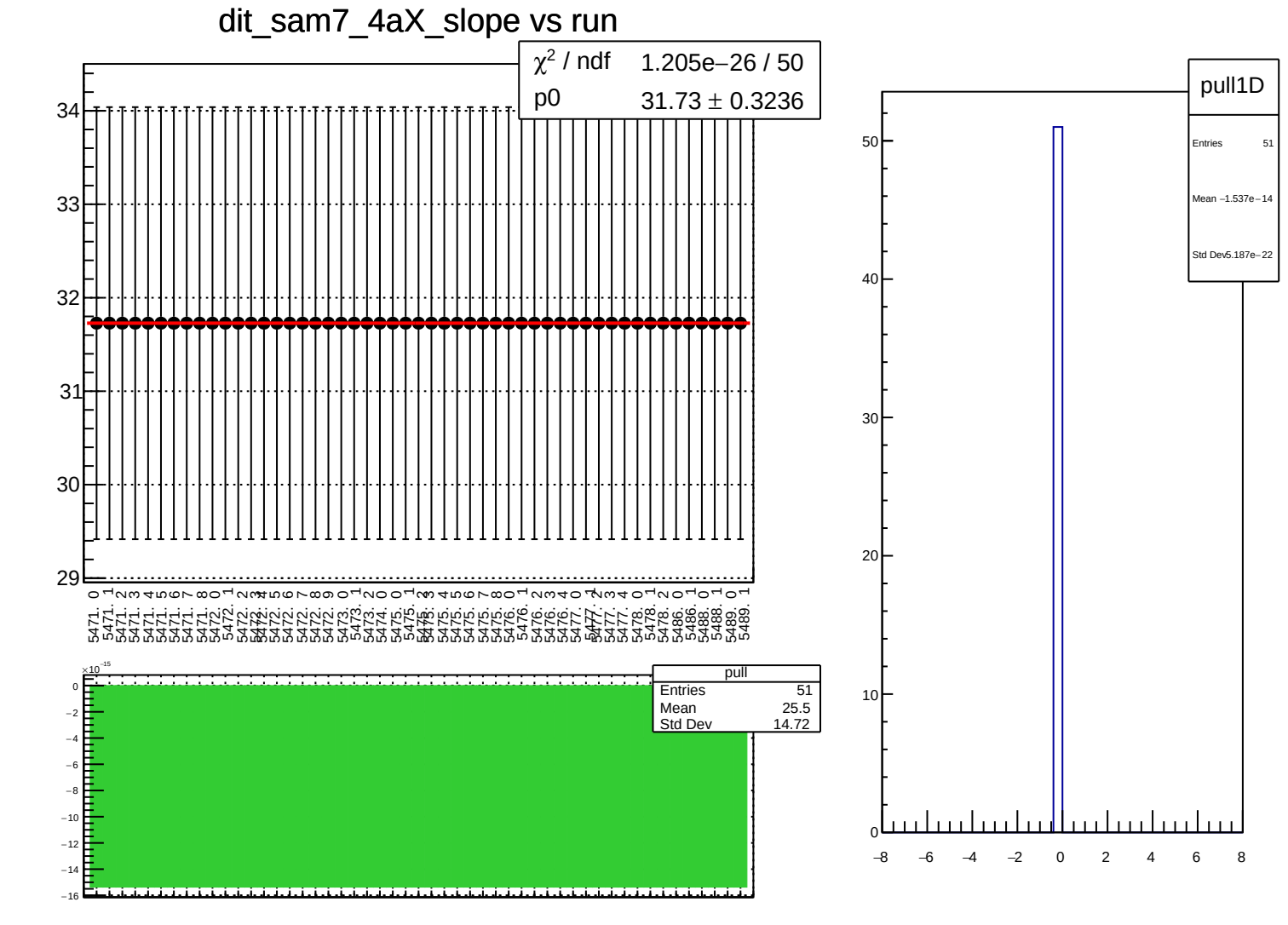

dit_sam6_11X12X_slope vs run
χ² / ndf 8.982e−29 / 50
p0 0.3001 ± 0.041
0.6
0.5
0.4
0.3
0.2
0.1
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 3
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5476. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −1.327e−15
Std Dev 5.294e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

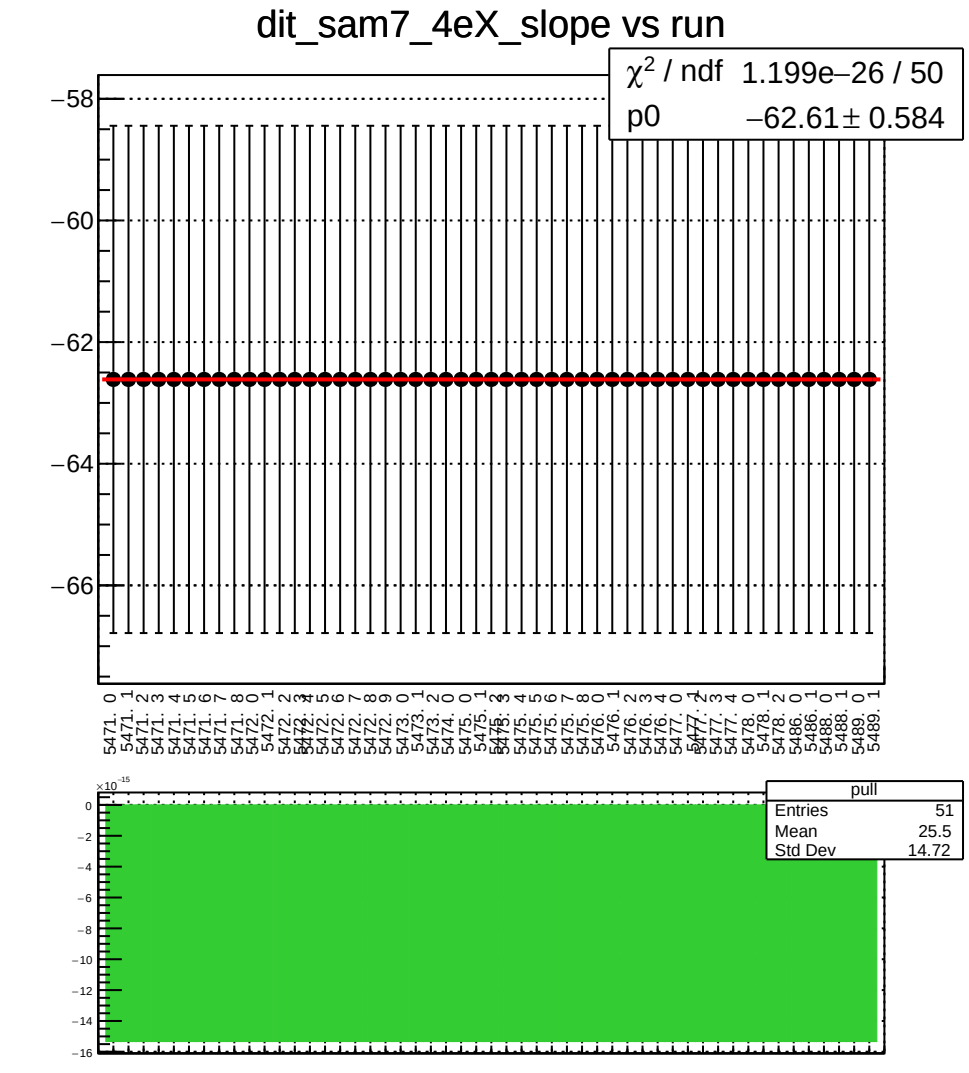

dit_sam6_4aY_slope vs run
χ² / ndf 6.563e−26 / 50
p0 38.54 ± 0.2219
40
39.5
39
38.5
38
37.5
37
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35

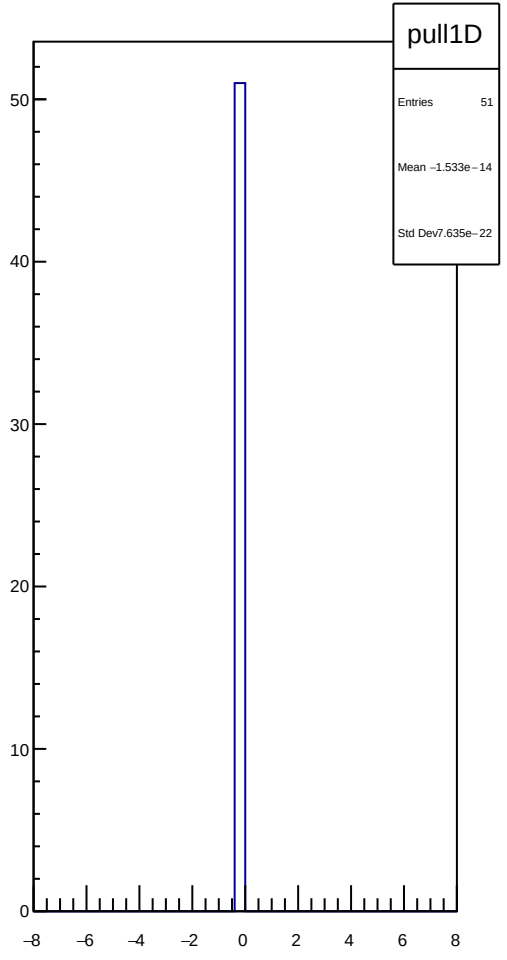

pull1D
Entries 51
Mean −3.587e−14
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

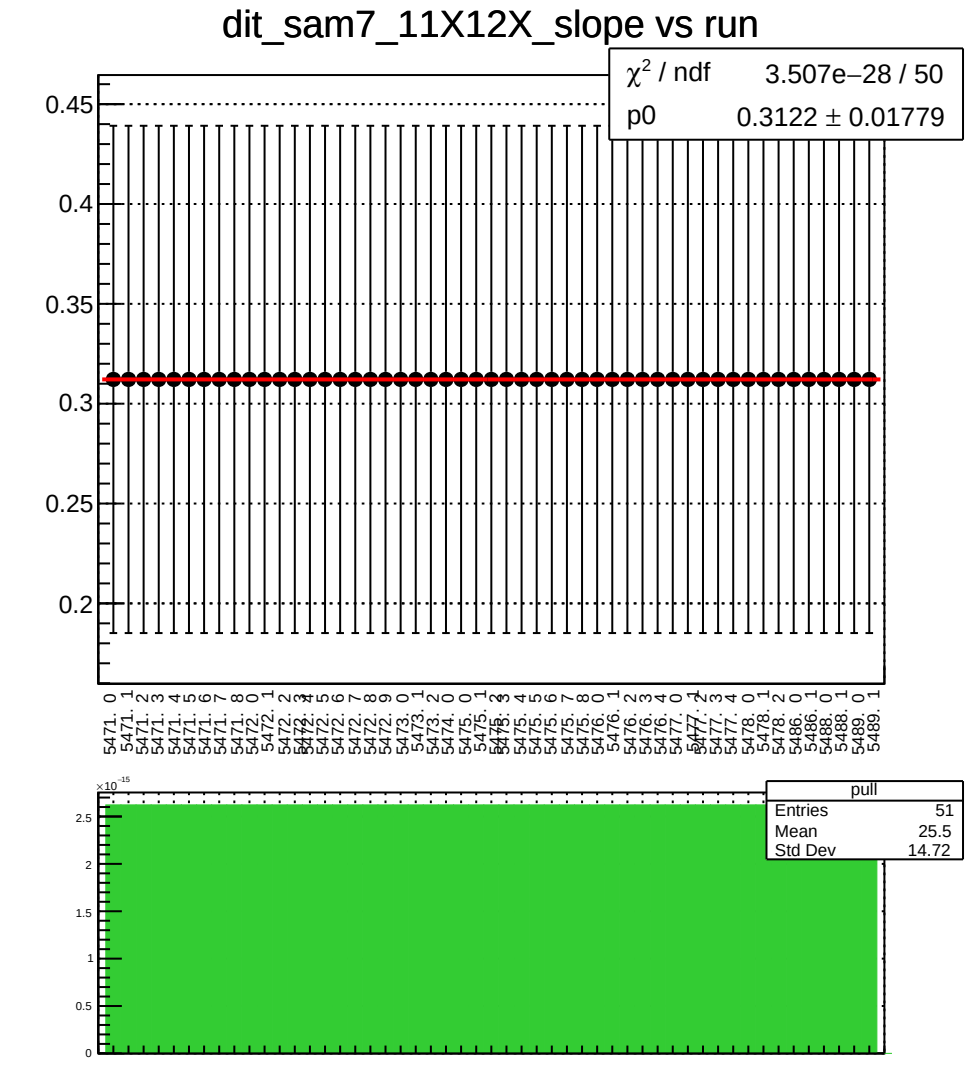

dit_sam6_4eY_slope vs run
χ² / ndf 3.842e−29 / 50
p0 2.411 ± 0.2149
pull
Entries 51
Mean 25.5
Std Dev 14.72

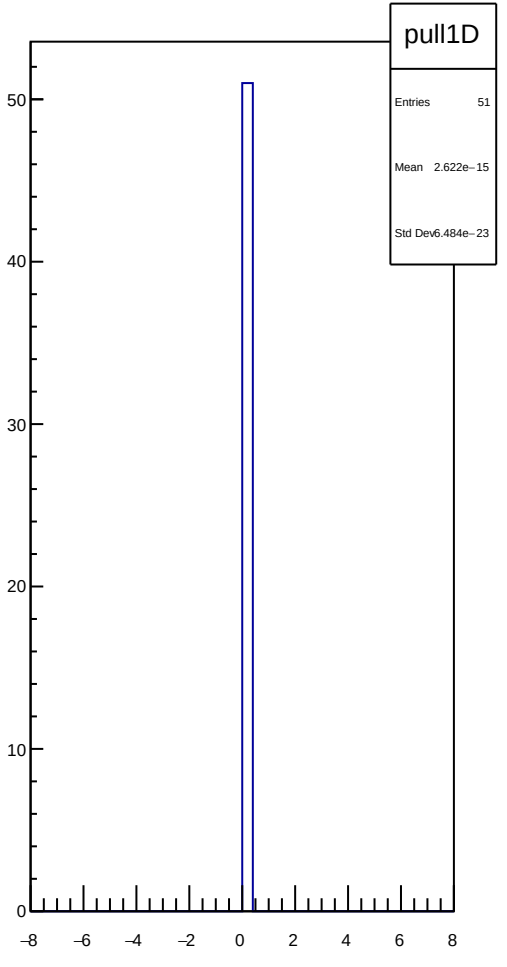

pull1D
Entries 51
Mean −8.68e−16
Std Dev 0

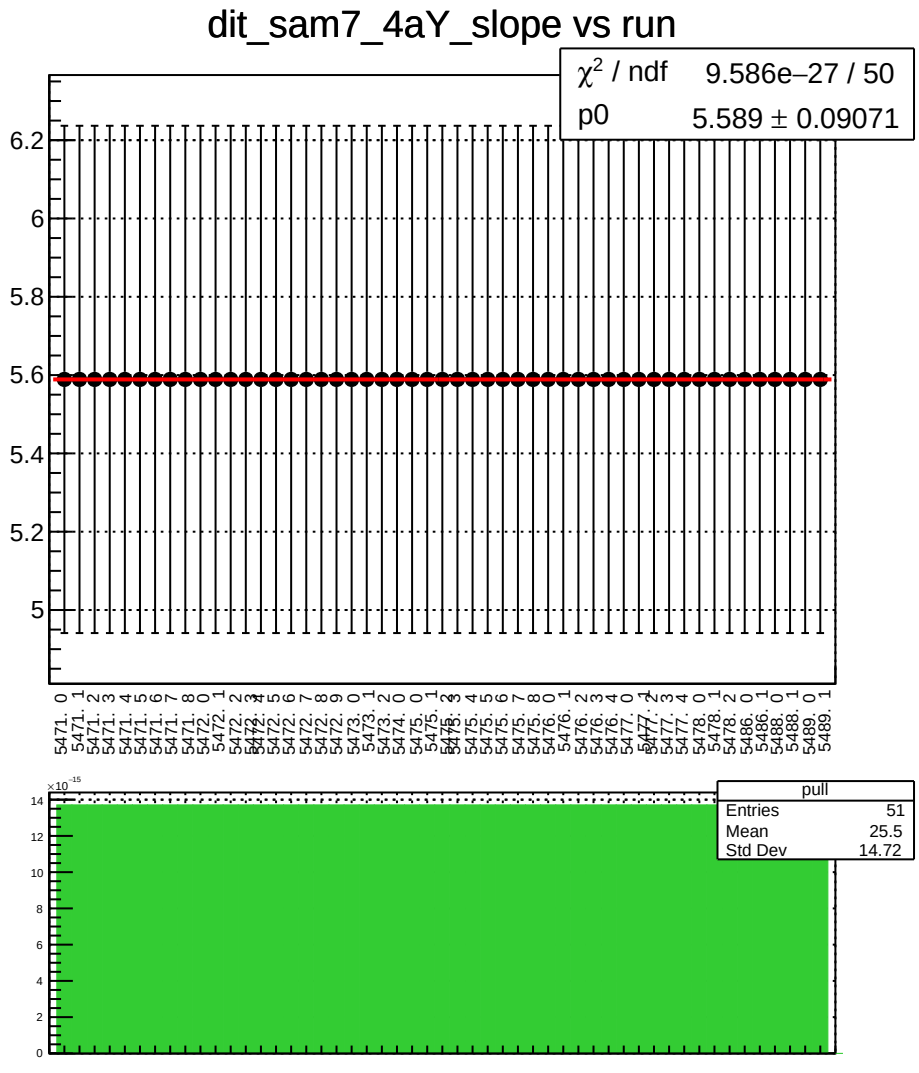

dit_sam7_4aX_slope vs run
χ² / ndf 1.205e−26 / 50
p0 31.73 ± 0.3236
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −1.537e−14
Std Dev5.187e−22

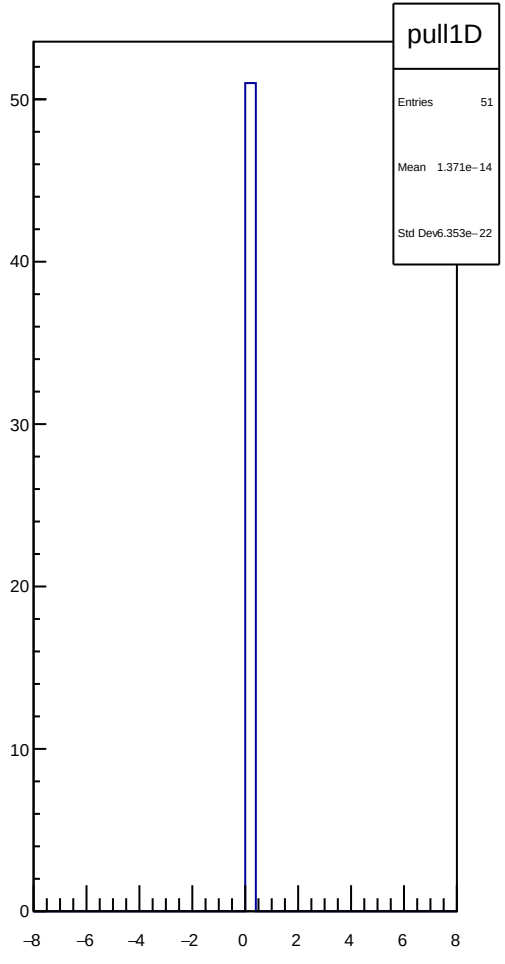

dit_sam7_4eX_slope vs run
χ² / ndf 1.199e−26 / 50
p0 −62.61 ± 0.584
−58
−60
−62
−64
−66
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16

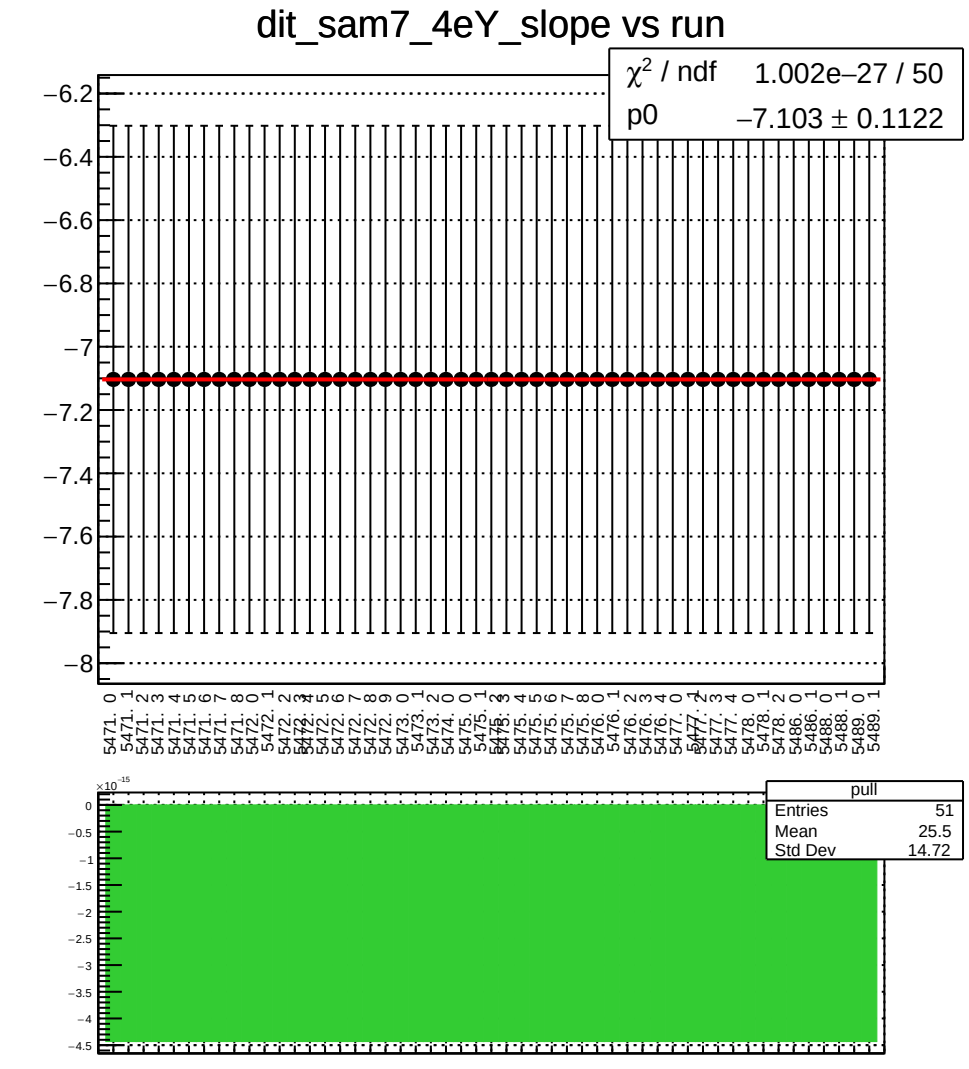

pull1D
Entries 51
Mean −1.533e−14
Std Dev7.635e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

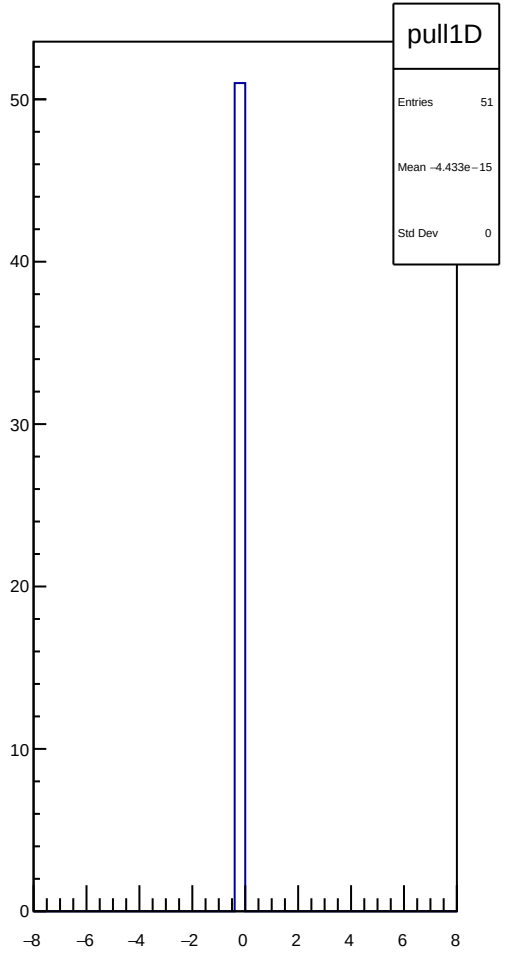

dit_sam7_11X12X_slope vs run
χ² / ndf 3.507e−28 / 50
p0 0.3122 ± 0.01779
0.45
0.4
0.35
0.3
0.25
0.2
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
2.5
2
1.5
1
0.5
0

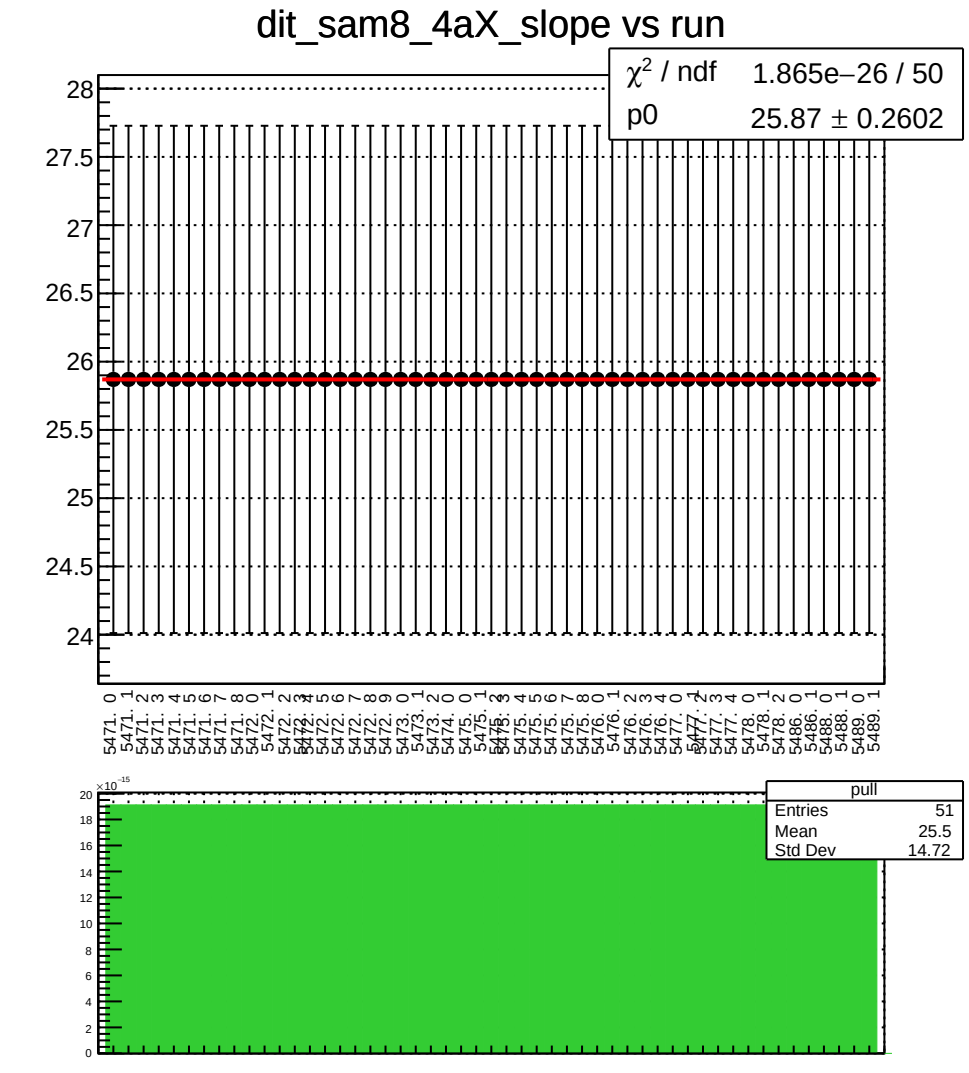

pull1D
Entries 51
Mean 2.622e−15
Std Dev 6.484e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

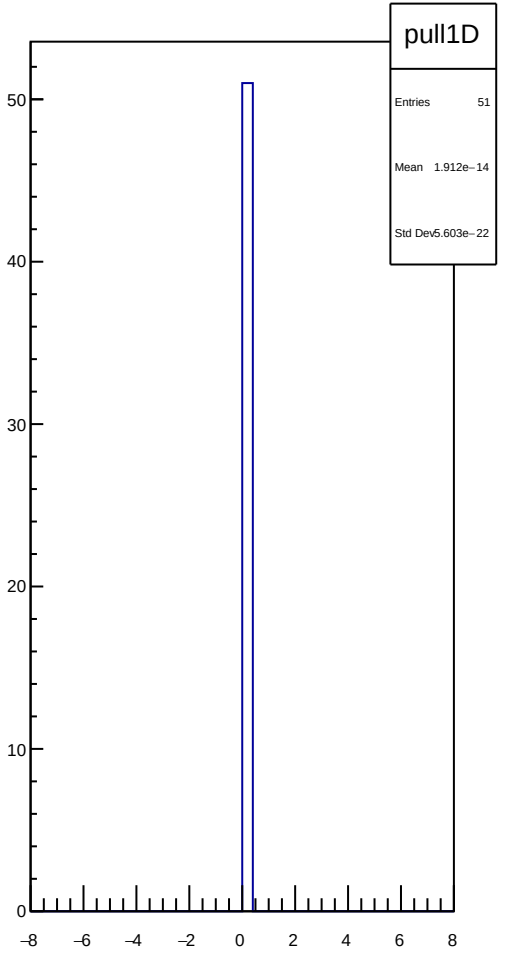

dit_sam7_4aY_slope vs run
χ² / ndf 9.586e−27 / 50
p0 5.589 ± 0.09071
pull
Entries 51
Mean 25.5
Std Dev 14.72

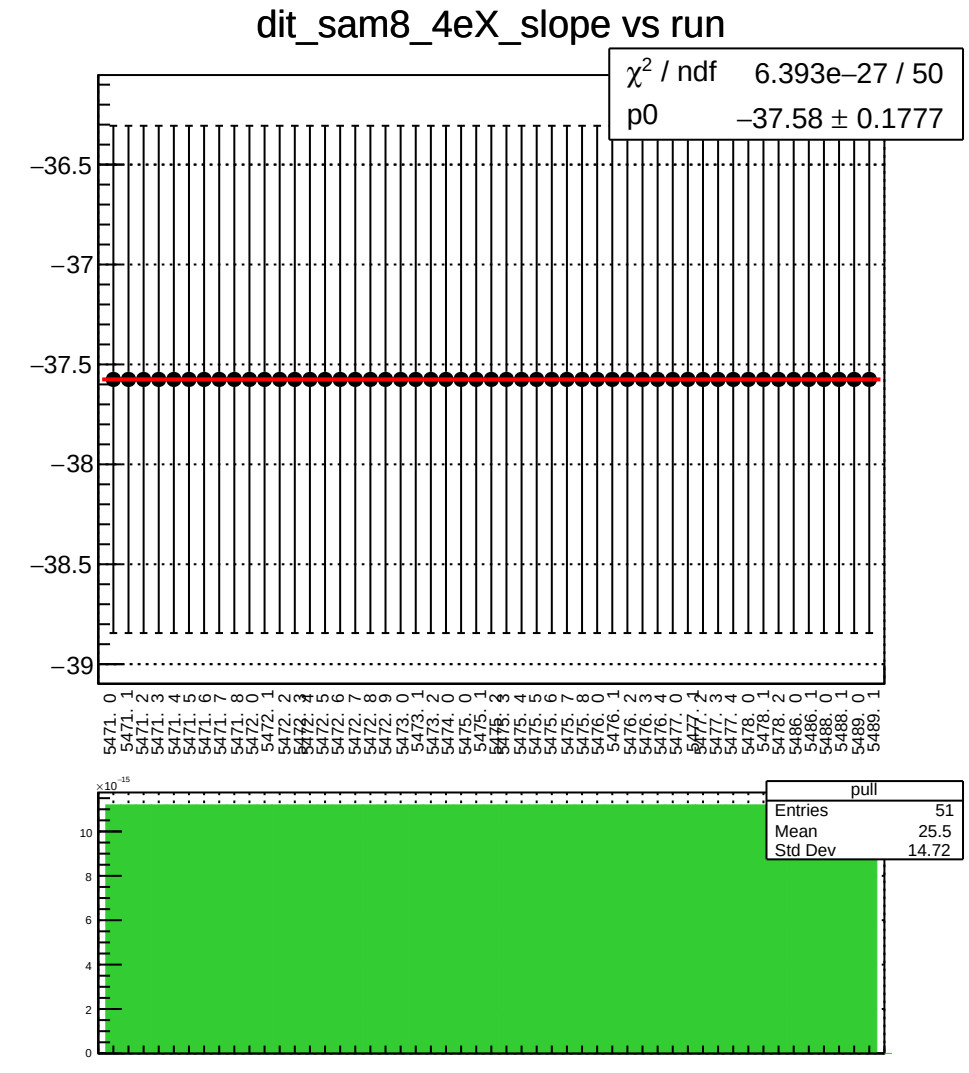

pull1D
Entries 51
Mean 1.371e−14
Std Dev 6.353e−22

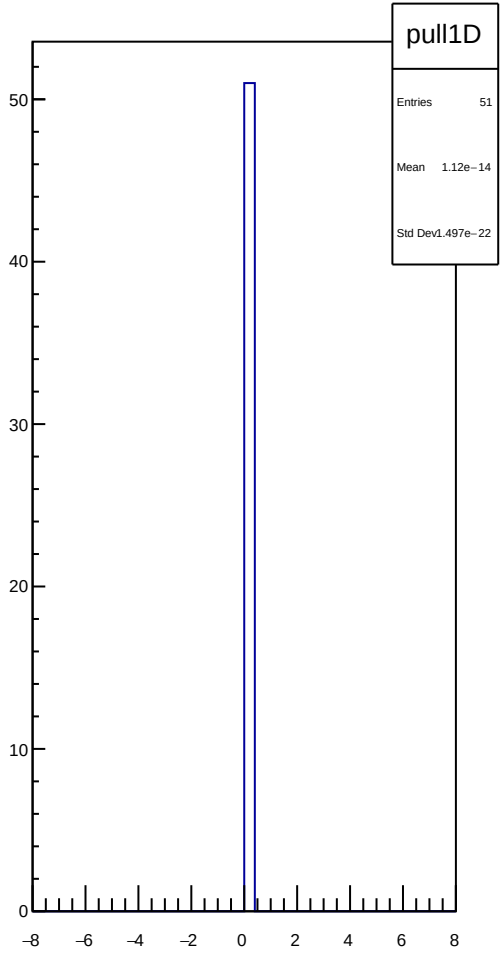

dit_sam7_4eY_slope vs run
χ² / ndf 1.002e−27 / 50
p0 −7.103 ± 0.1122
pull
Entries 51
Mean 25.5
Std Dev 14.72

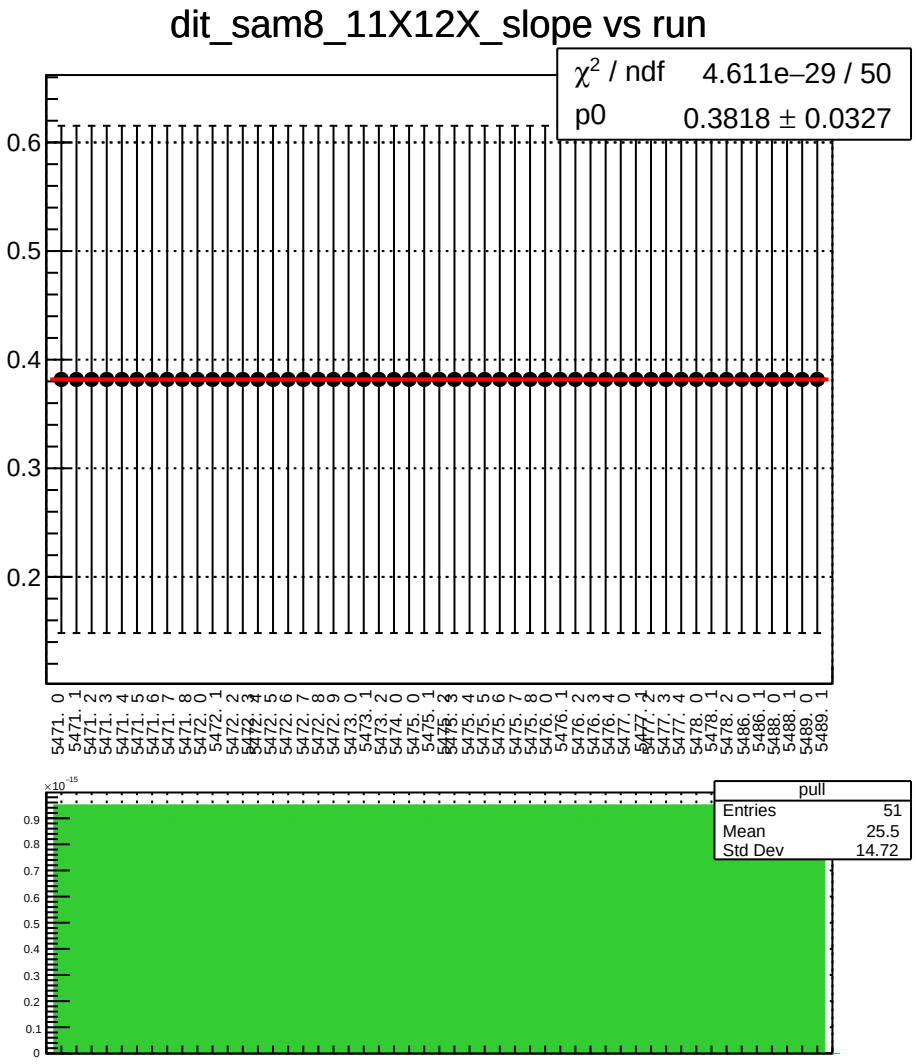

pull1D
Entries 51
Mean −4.433e−15
Std Dev 0

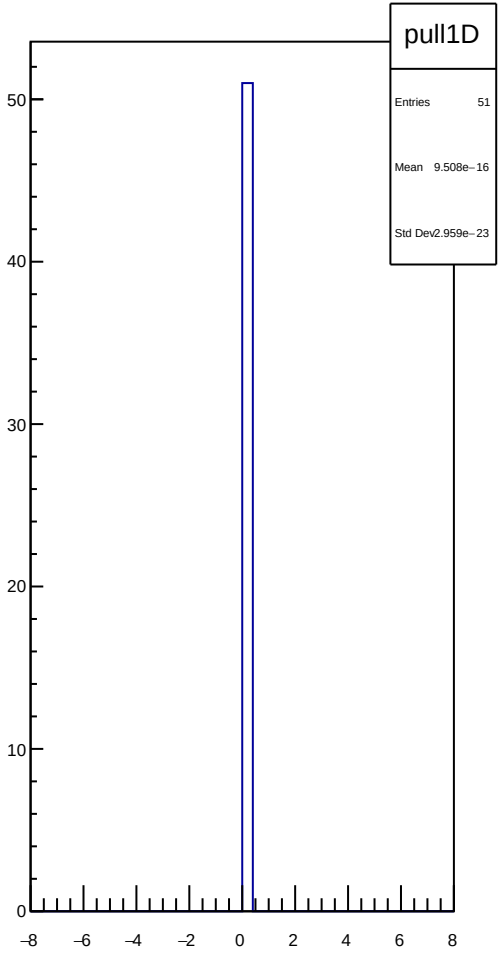

dit_sam8_4aX_slope vs run
χ² / ndf 1.865e−26 / 50
p0 25.87 ± 0.2602
pull
Entries 51
Mean 25.5
Std Dev 14.72

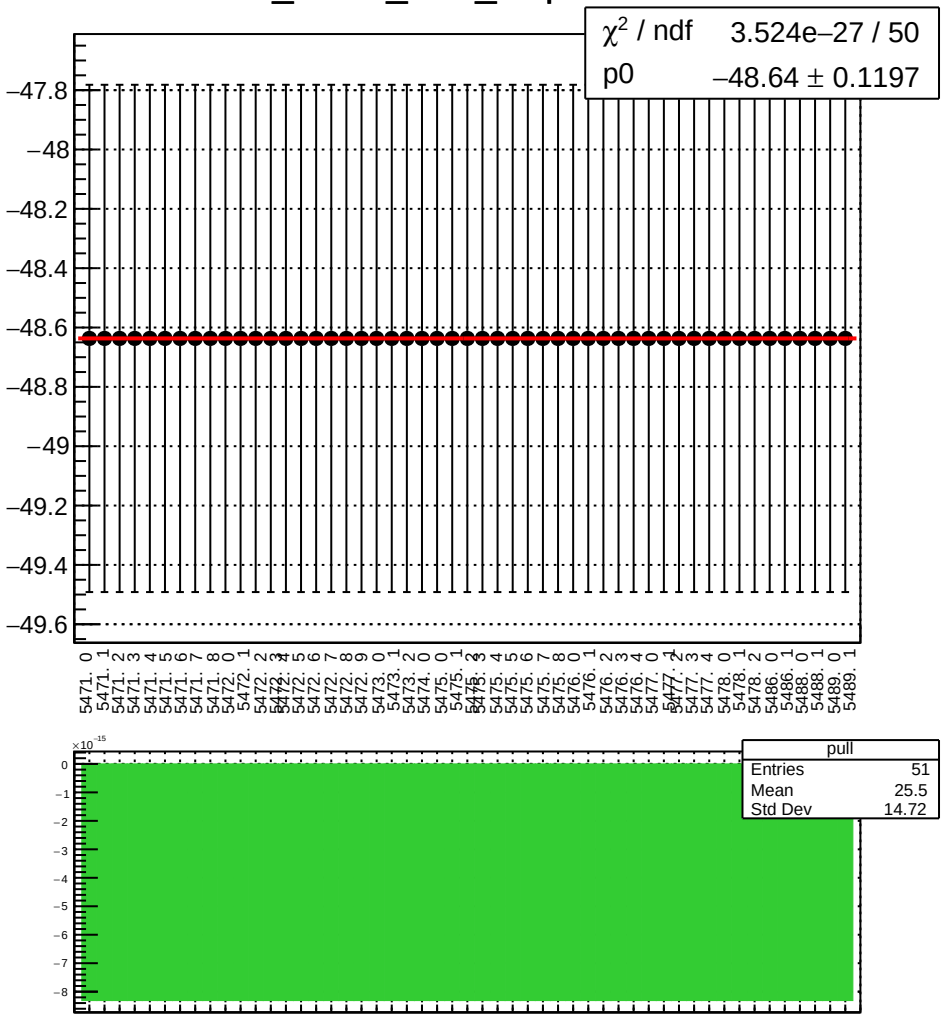

pull1D
Entries 51
Mean 1.912e−14
Std Dev 5.603e−22

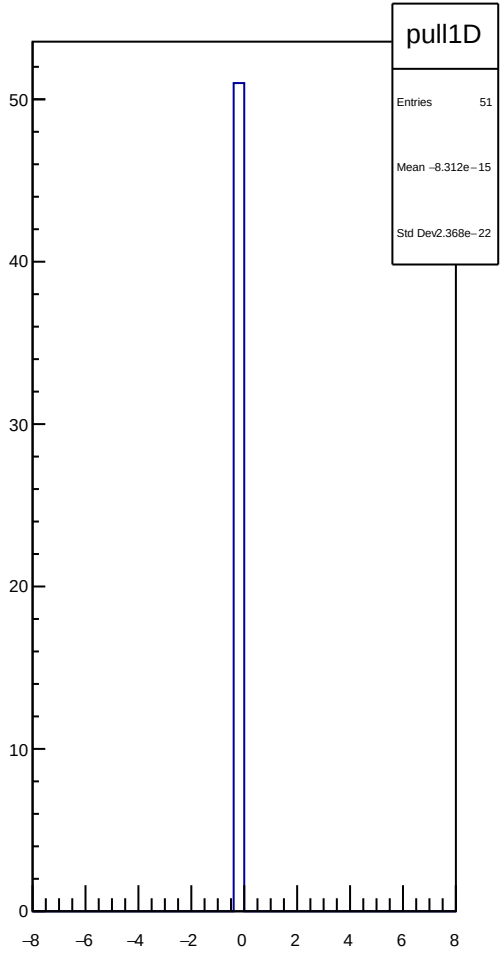

dit_sam8_4eX_slope vs run
χ² / ndf 6.393e−27 / 50
p0 −37.58 ± 0.1777
−36.5
−37
−37.5
−38
−38.5
−39
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
10
8
6
4
2
0

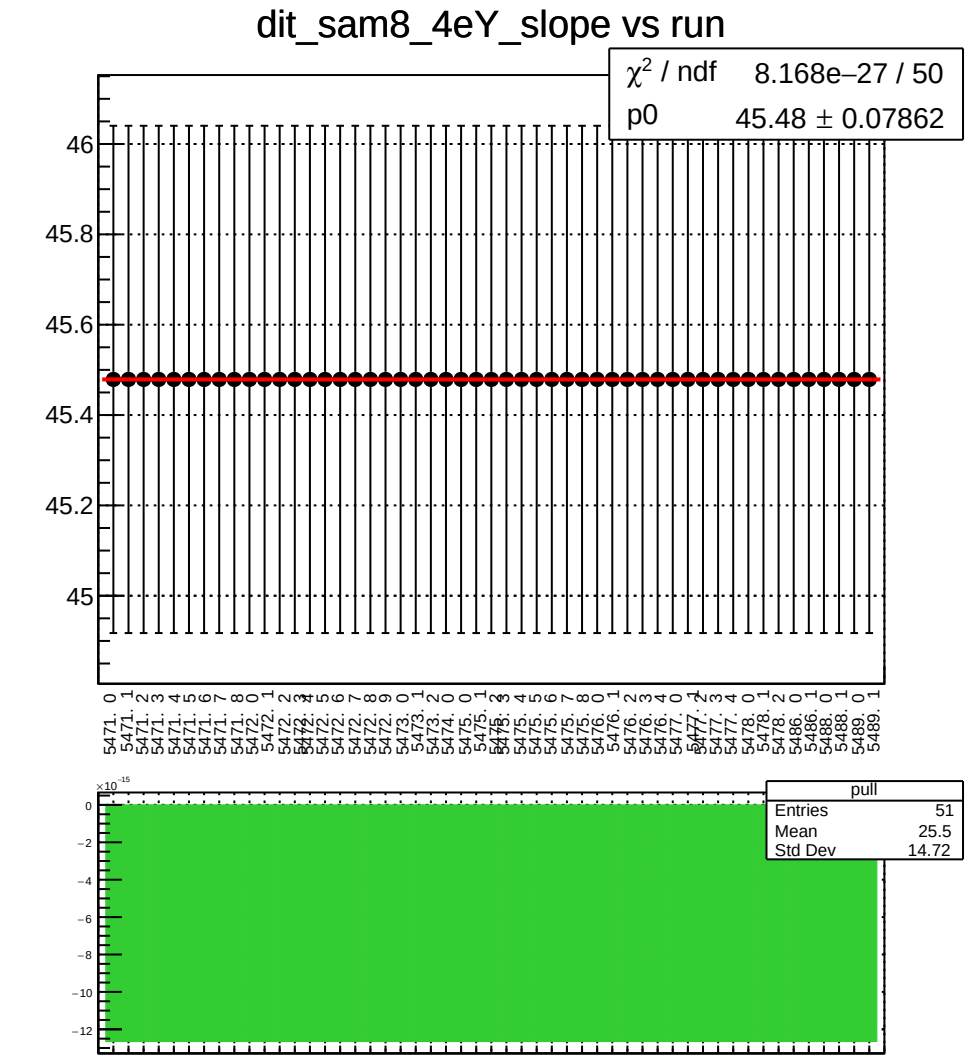

pull1D
Entries 51
Mean 1.12e−14
Std Dev1.497e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

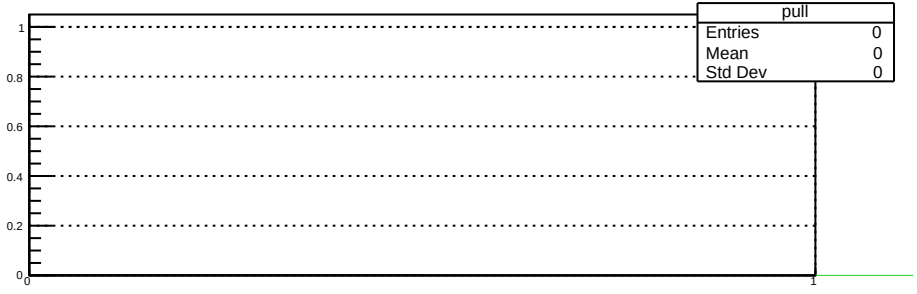

dit_sam8_11X12X_slope vs run
χ² / ndf 4.611e−29 / 50
p0 0.3818 ± 0.0327
0.6
0.5
0.4
0.3
0.2
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

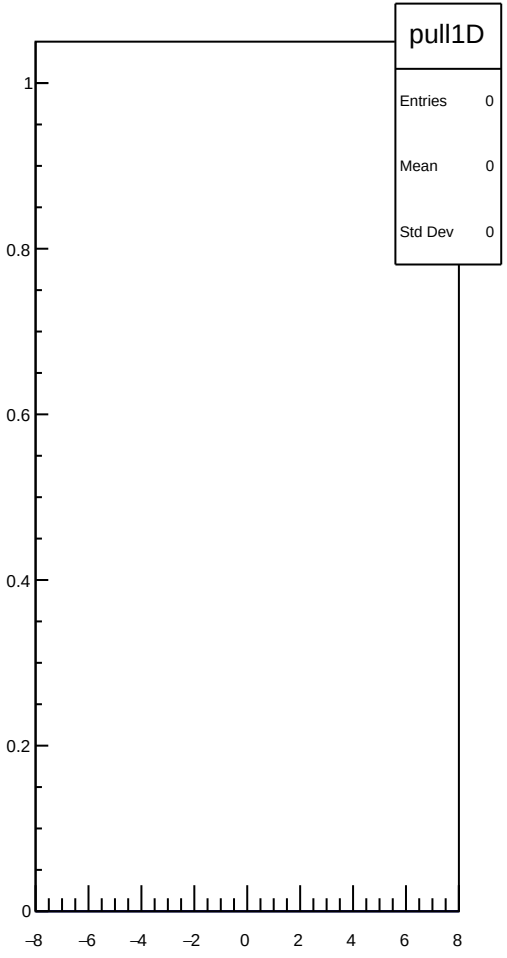

pull1D
Entries 51
Mean 9.508e−16
Std Dev 2.959e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

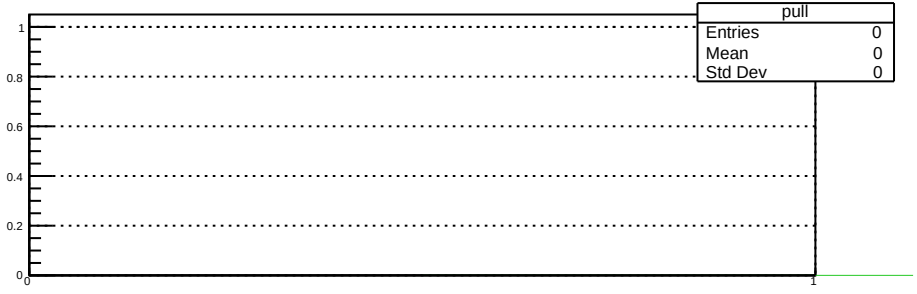

dit_sam8_4aY_slope vs run
χ² / ndf 3.524e−27 / 50
p0 −48.64 ± 0.1197
−47.8
−48
−48.2
−48.4
−48.6
−48.8
−49
−49.2
−49.4
−49.6
pull
Entries 51
Mean 25.5
Std Dev 14.72
×10⁻¹⁵

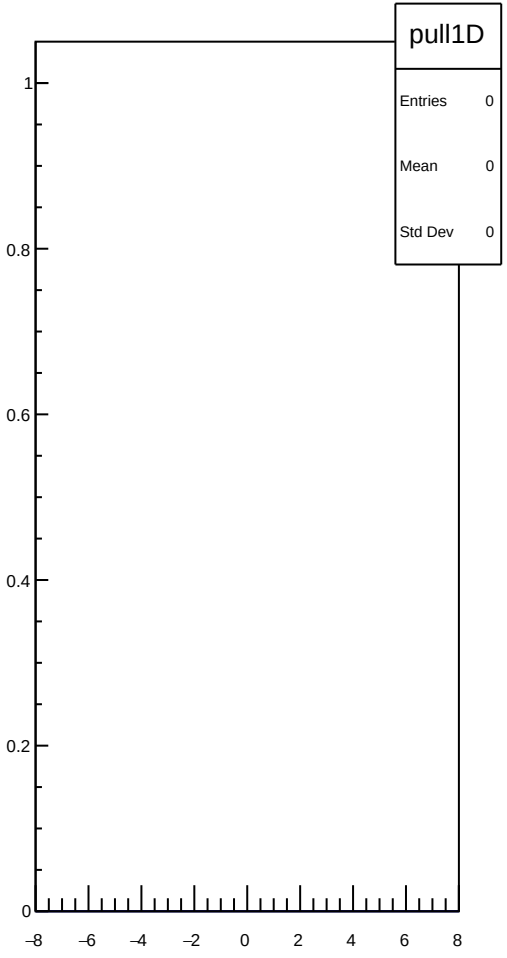

pull1D
Entries 51
Mean −8.312e−15
Std Dev 2.368e−22

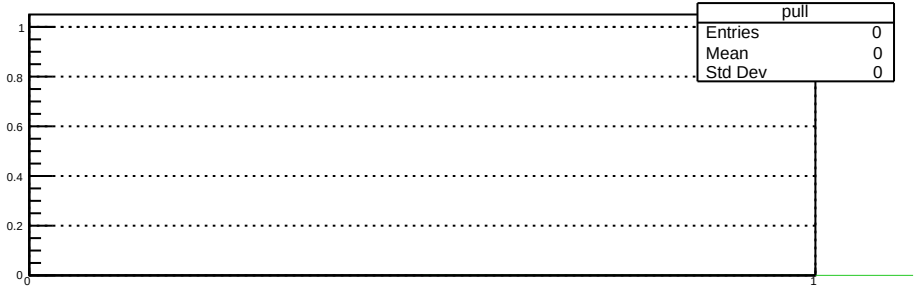

dit_sam8_4eY_slope vs run
χ² / ndf 8.168e−27 / 50
p0 45.48 ± 0.07862
46
45.8
45.6
45.4
45.2
45
5471. 0
5471. 1
5471. 2
5471. 3
5471. 4
5471. 5
5471. 6
5471. 7
5471. 8
5472. 0
5472. 1
5472. 2
5472. 3
5472. 4
5472. 5
5472. 6
5472. 7
5472. 8
5472. 9
5473. 0
5473. 1
5473. 2
5474. 0
5475. 0
5475. 1
5475. 4
5475. 5
5475. 6
5475. 7
5475. 8
5476. 0
5476. 1
5476. 2
5476. 3
5476. 4
5477. 0
5477. 2
5477. 3
5477. 4
5478. 0
5478. 1
5478. 2
5486. 0
5486. 1
5488. 0
5488. 1
5489. 0
5489. 1
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean −1.266e−14
Std Dev 5.187e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

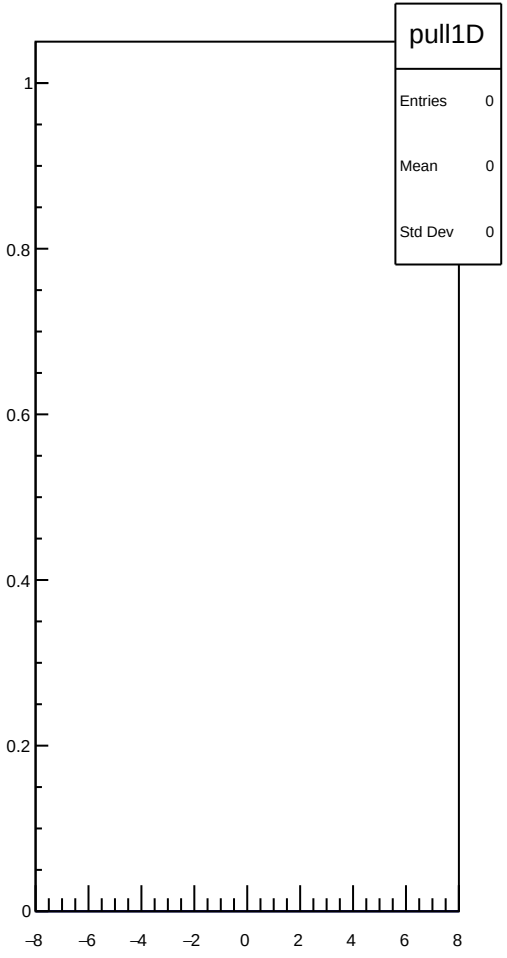

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

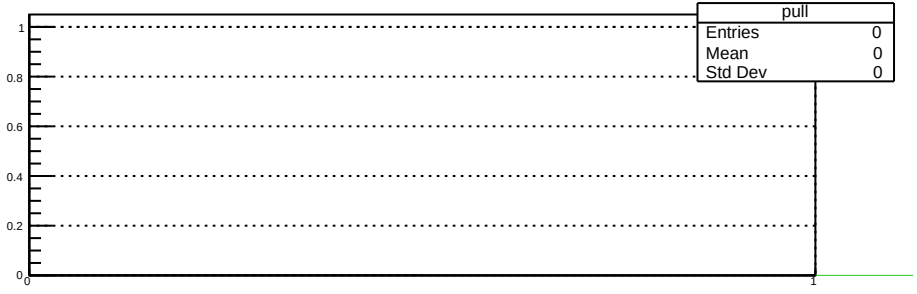

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

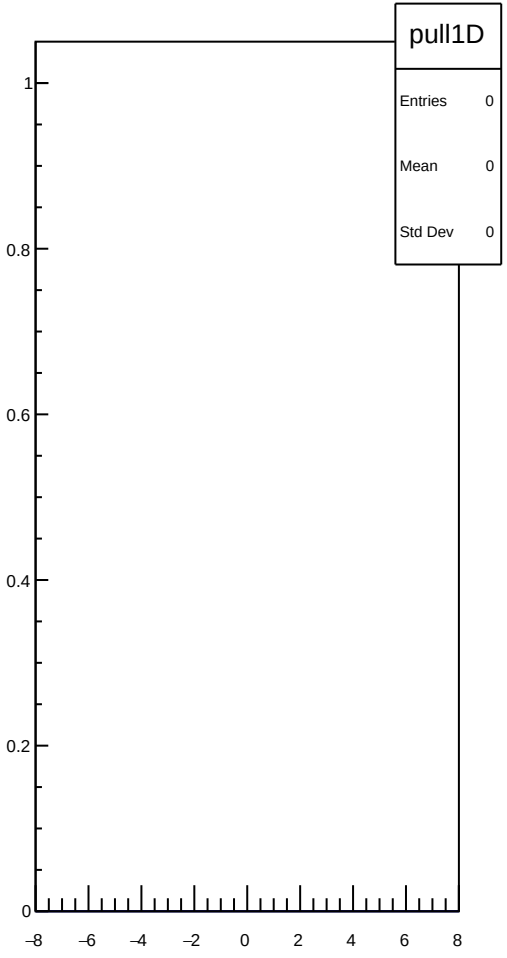

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

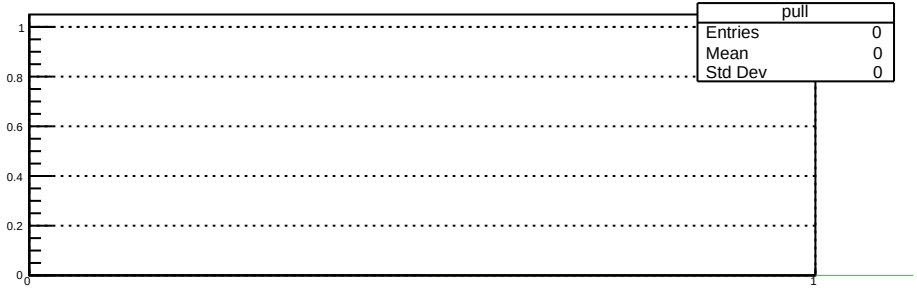

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

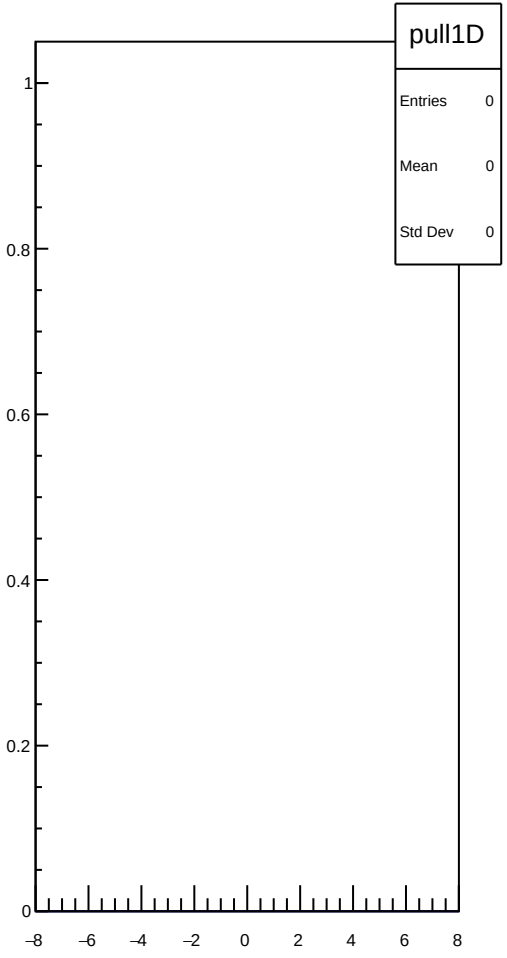

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

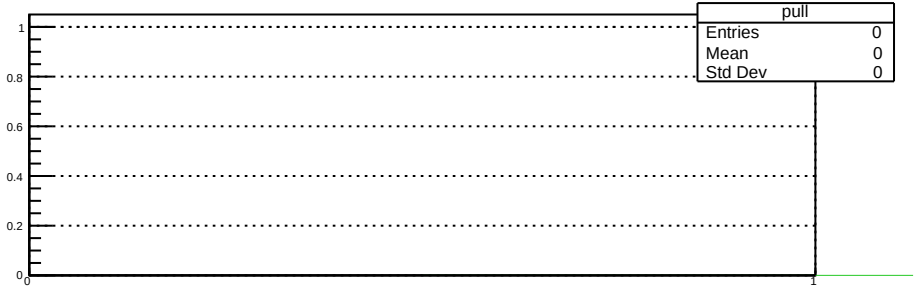

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

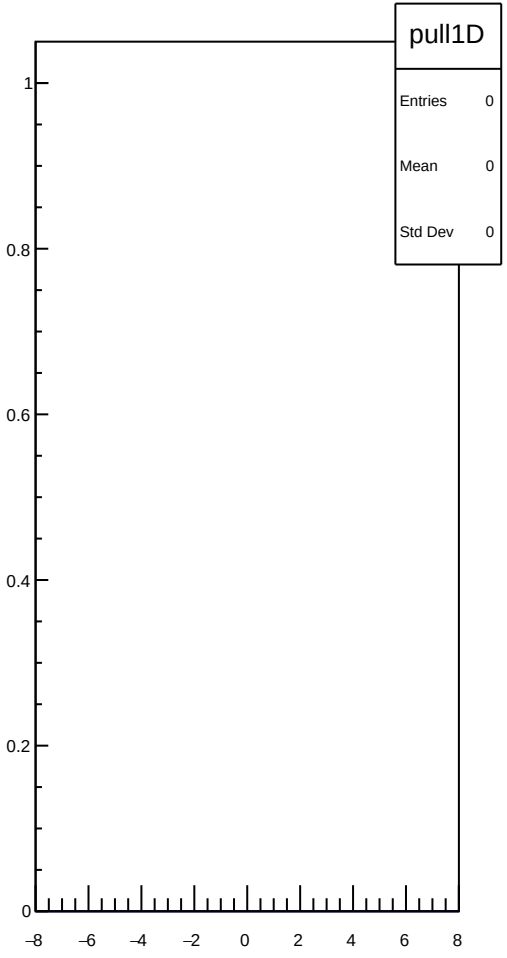

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

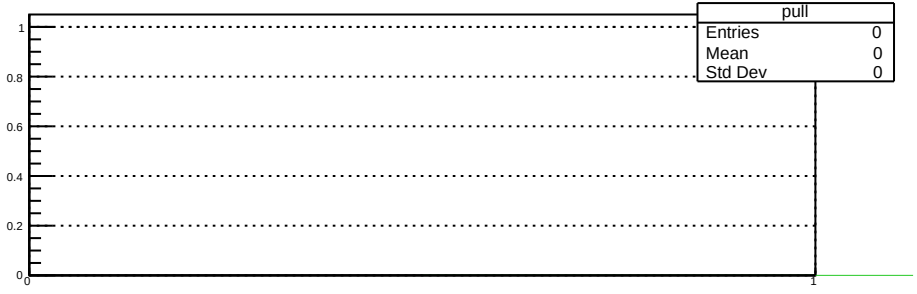

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

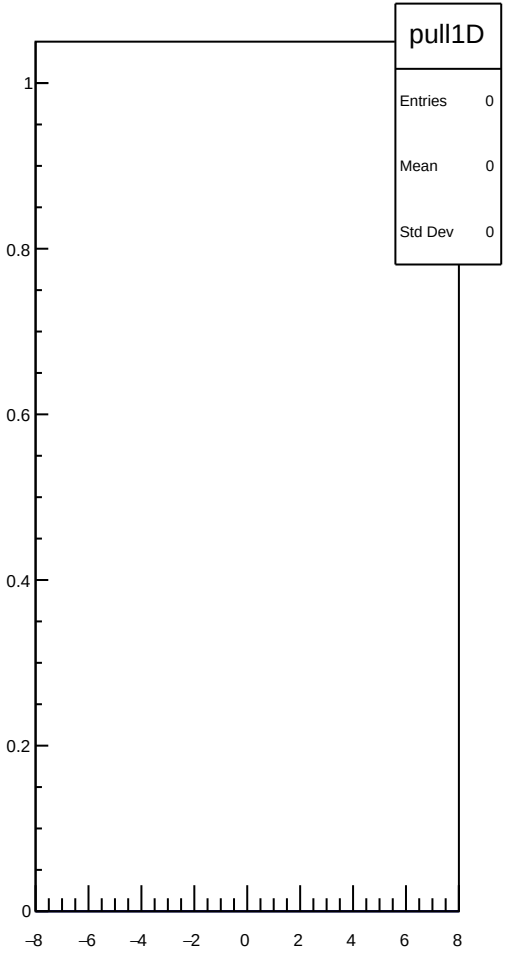

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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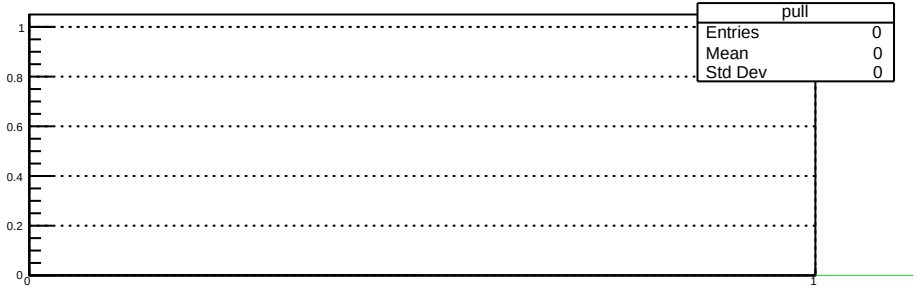
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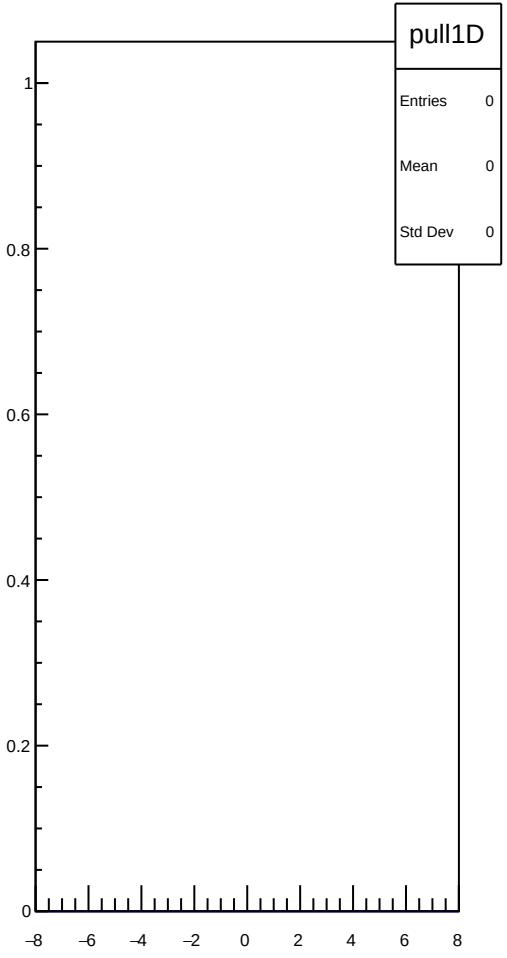
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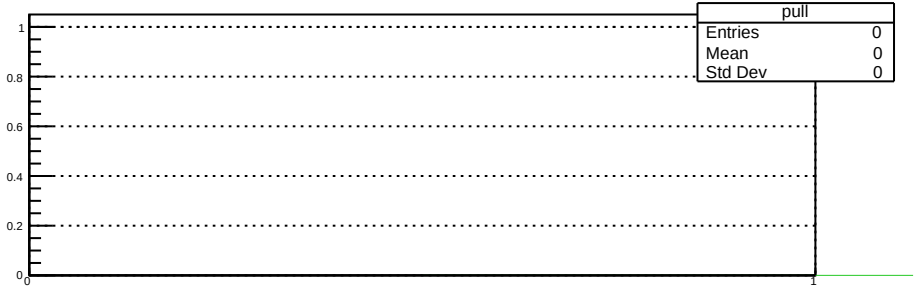
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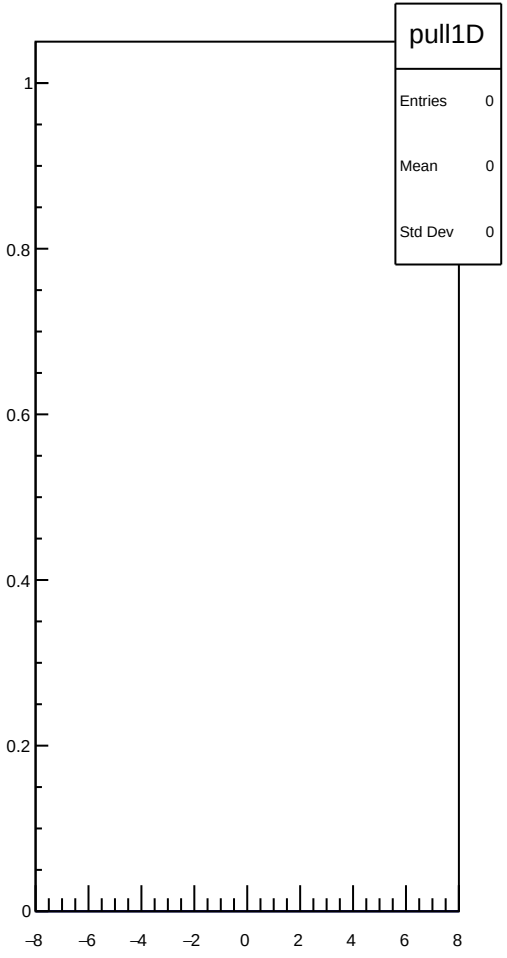
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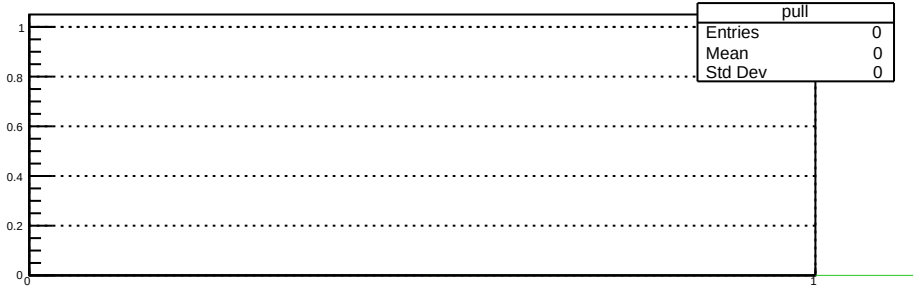
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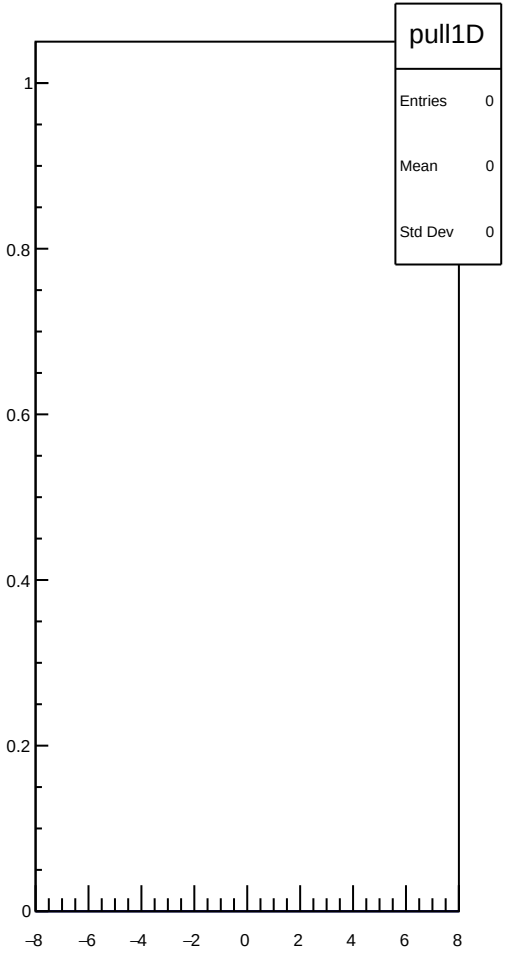
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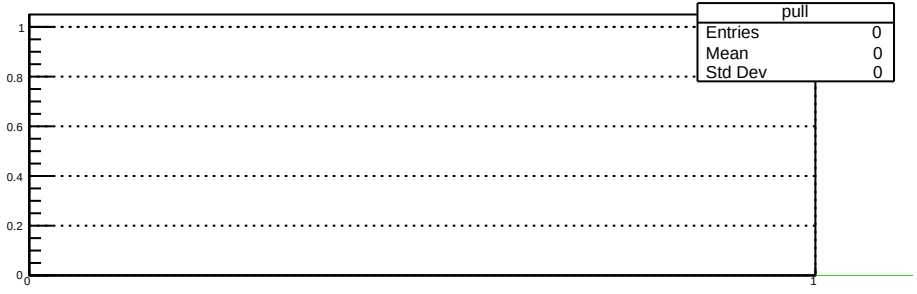
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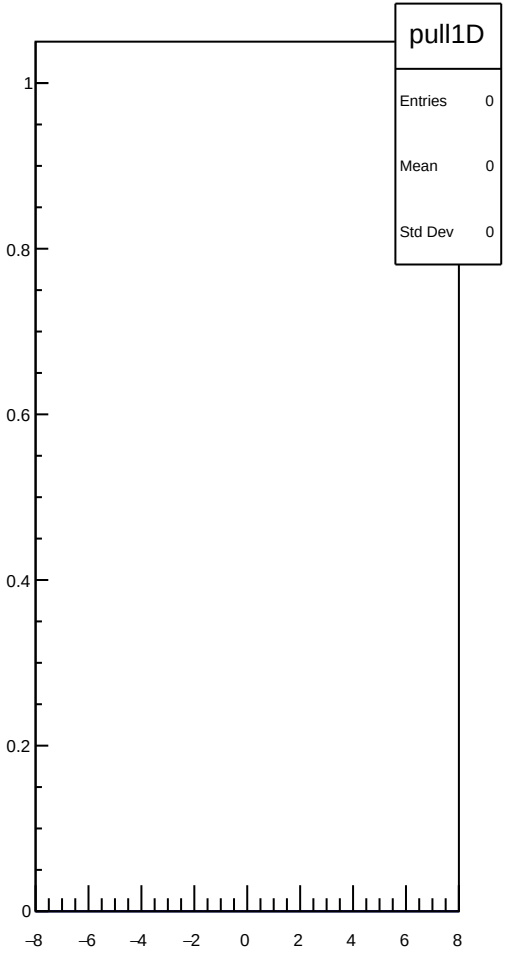
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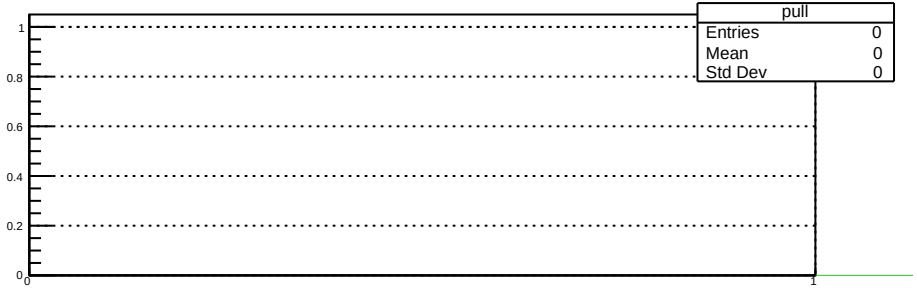
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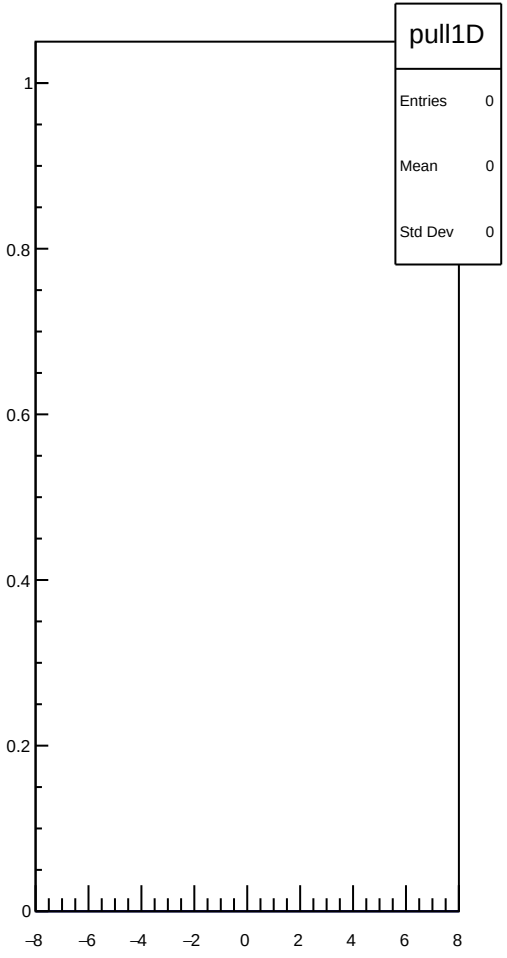
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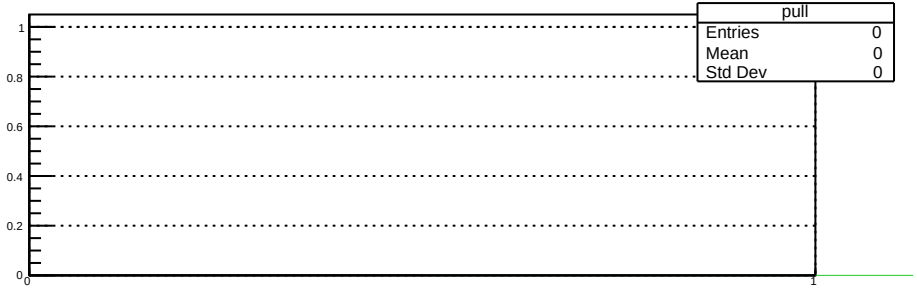
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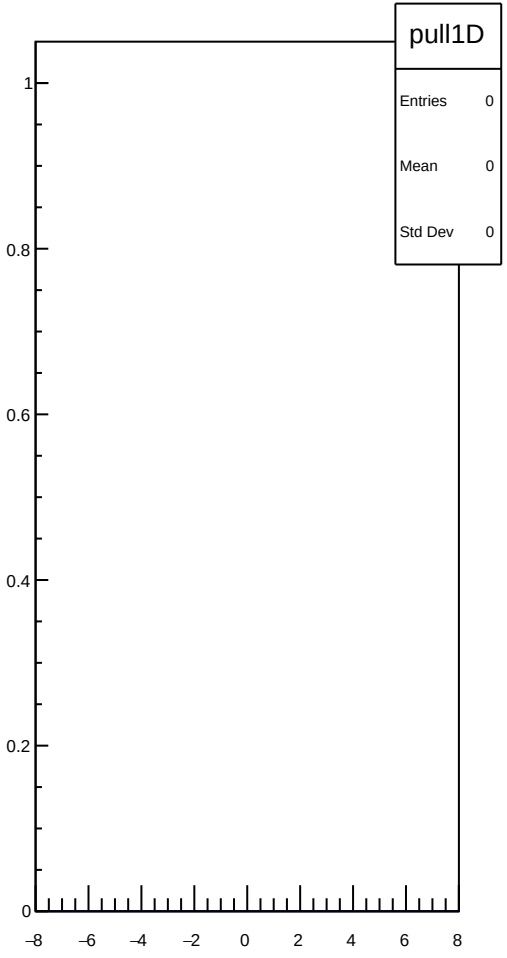
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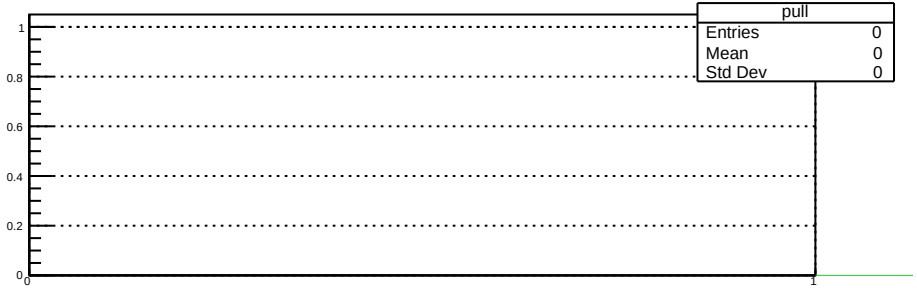
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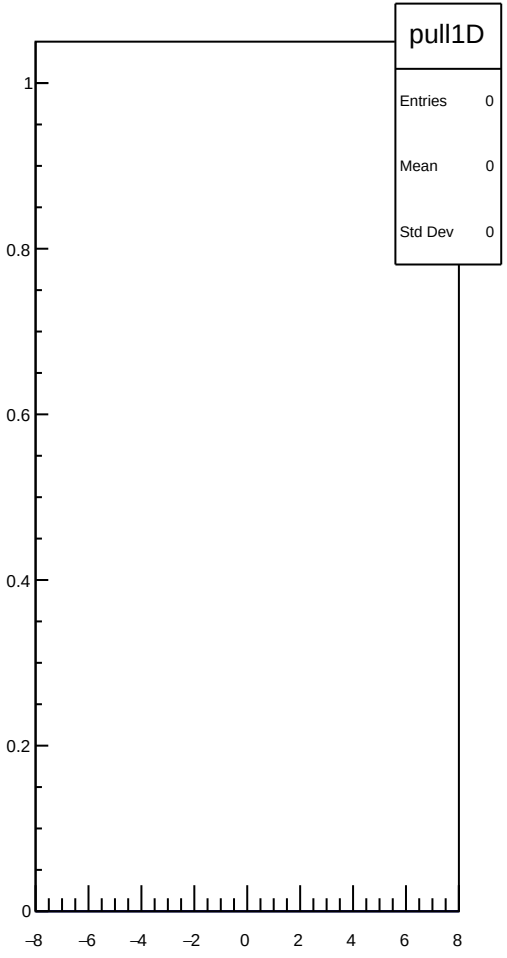
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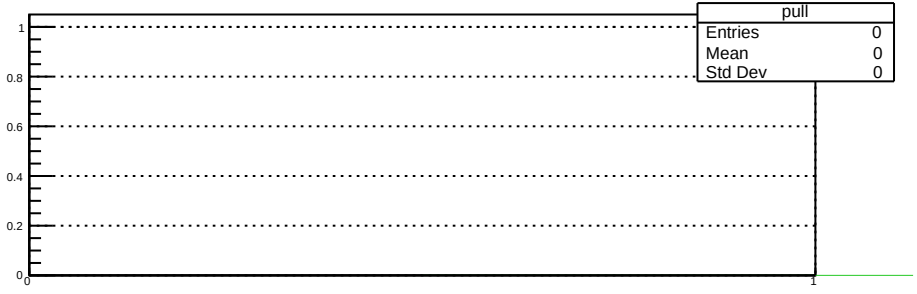
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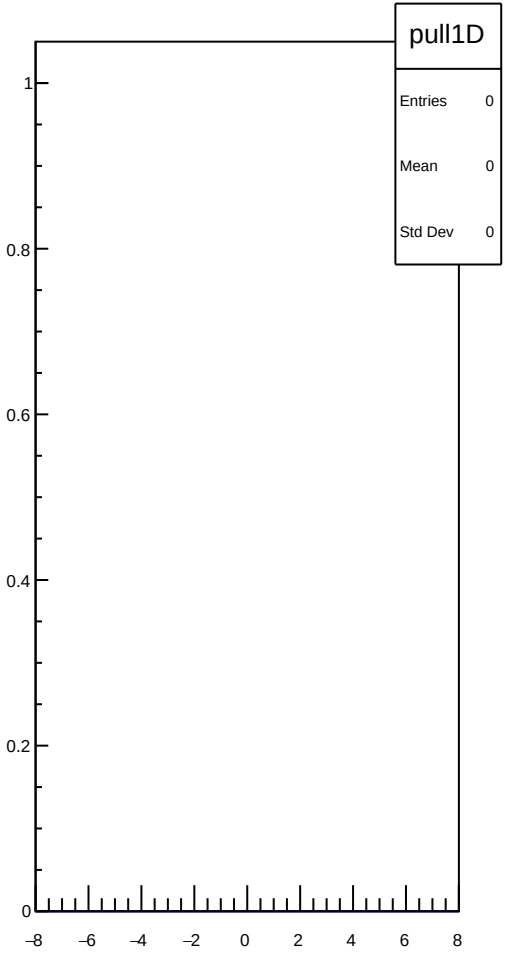
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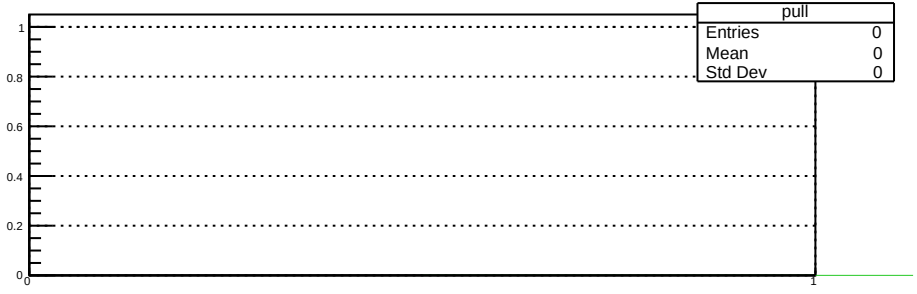
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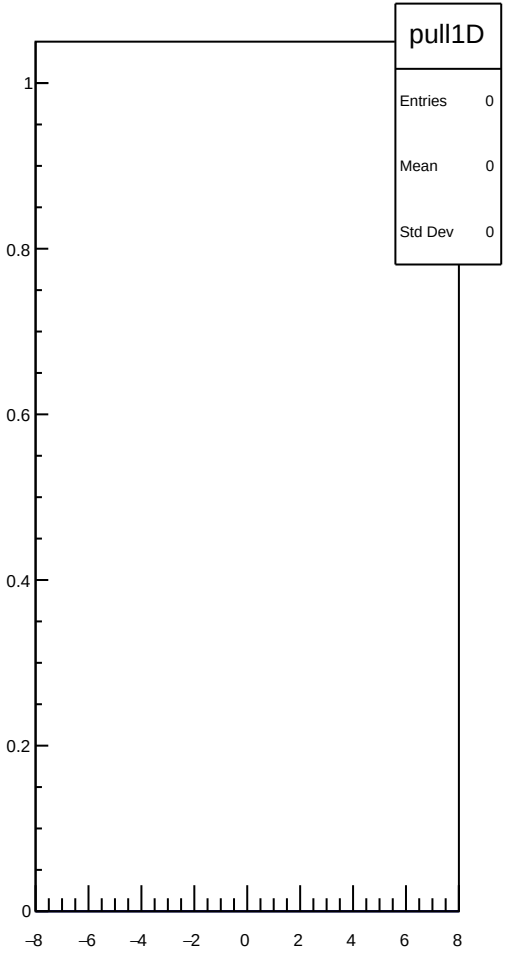
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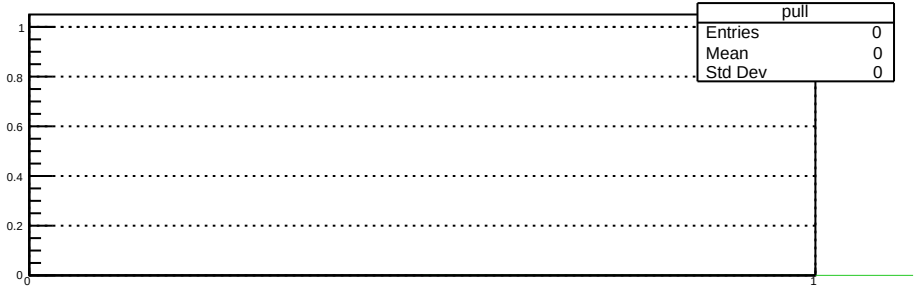
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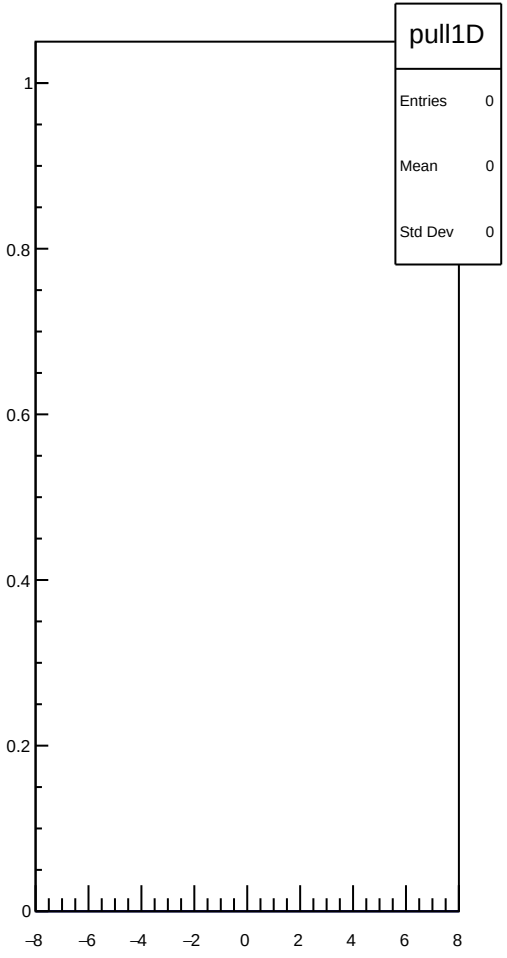
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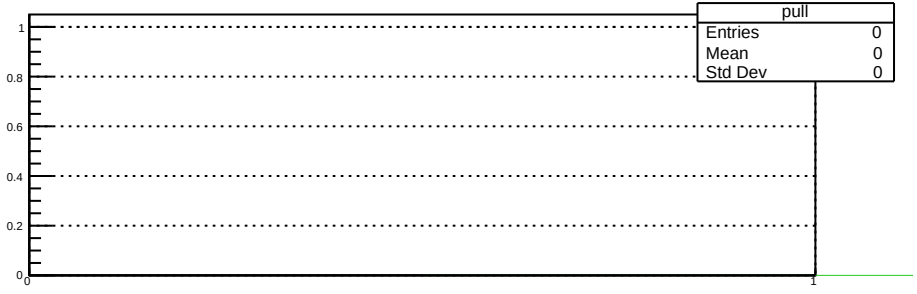
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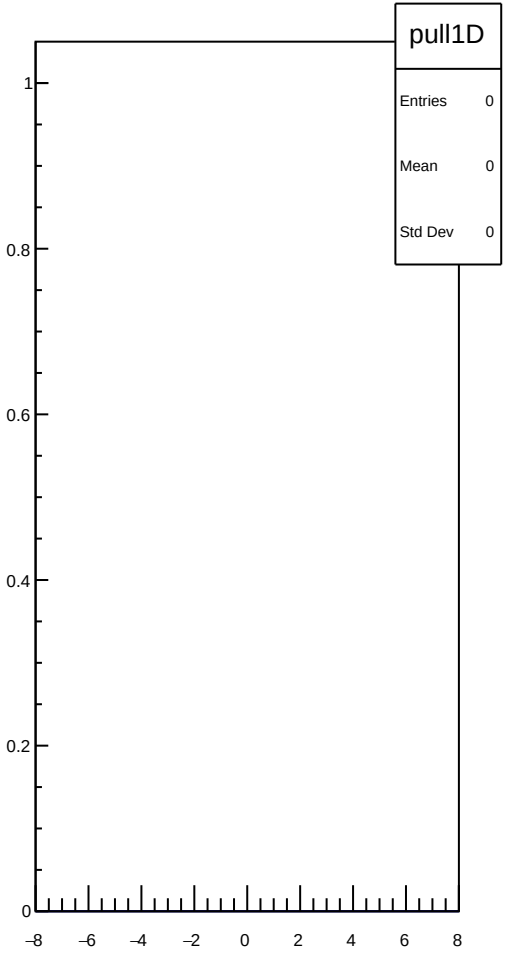
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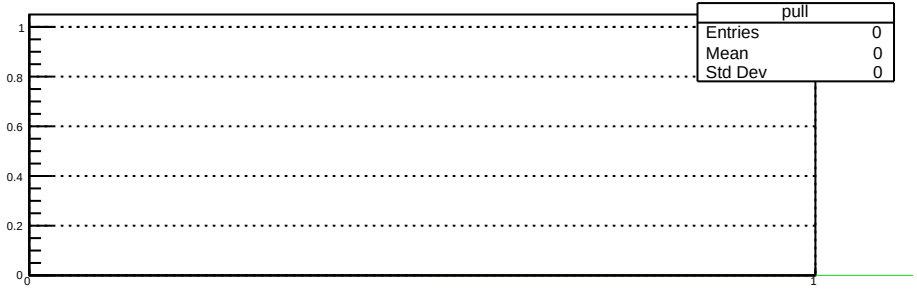
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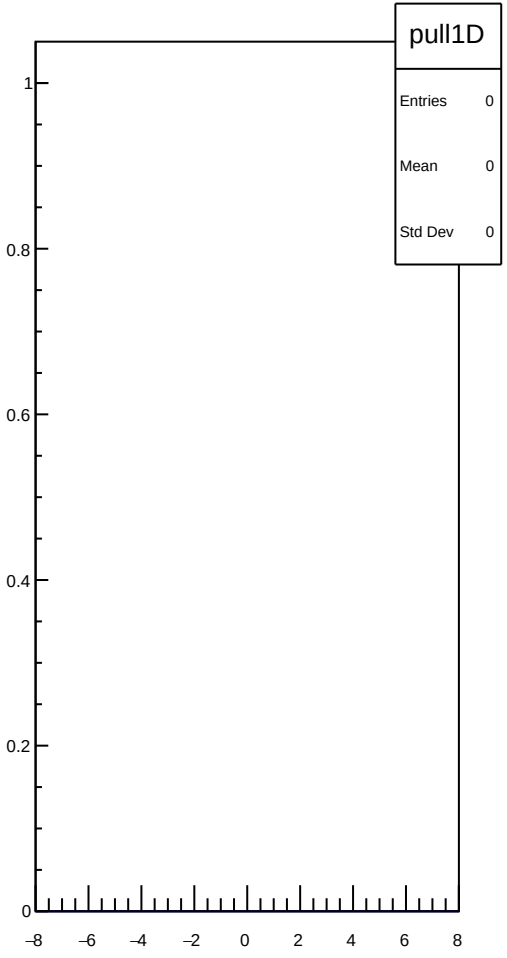
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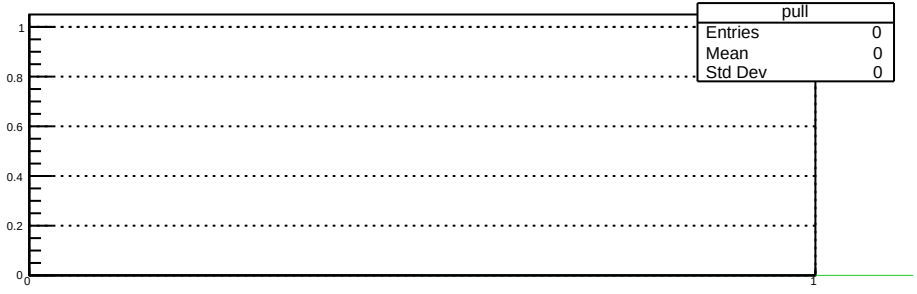
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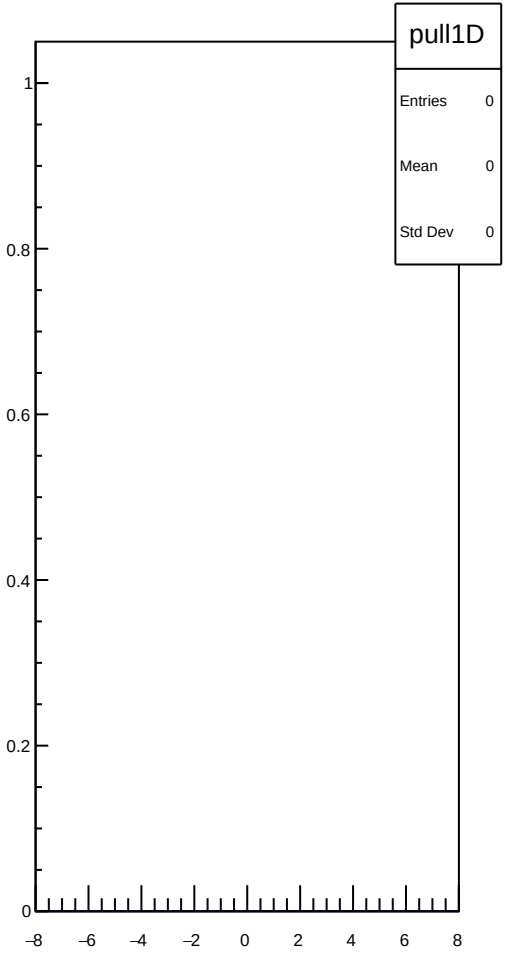
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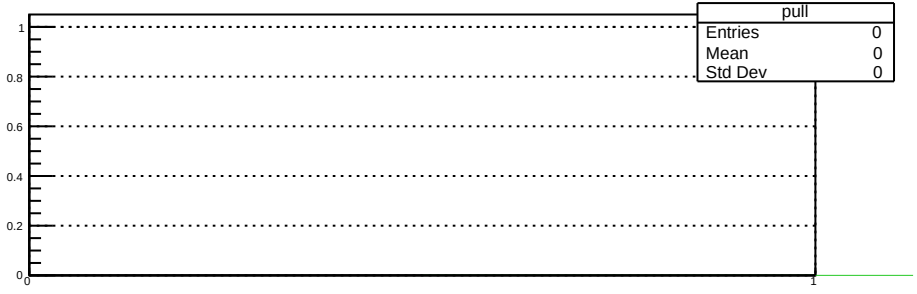
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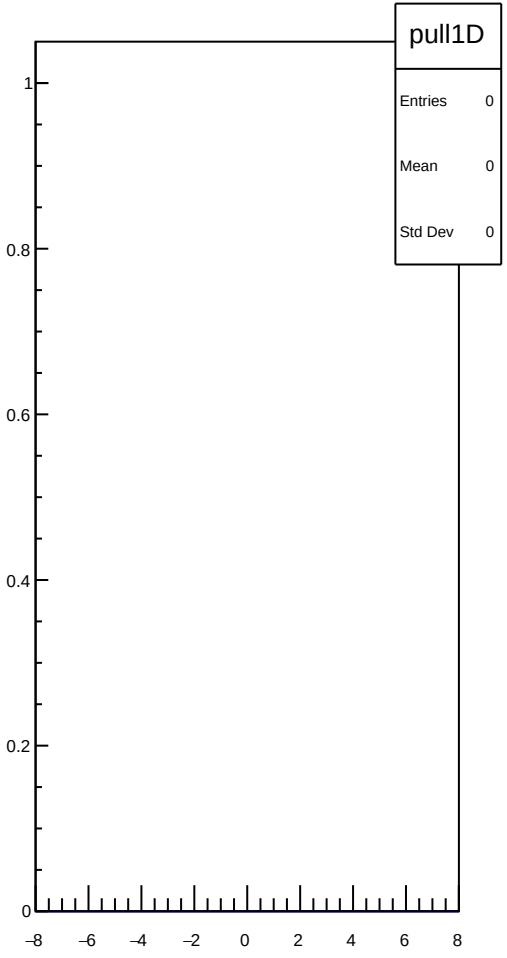
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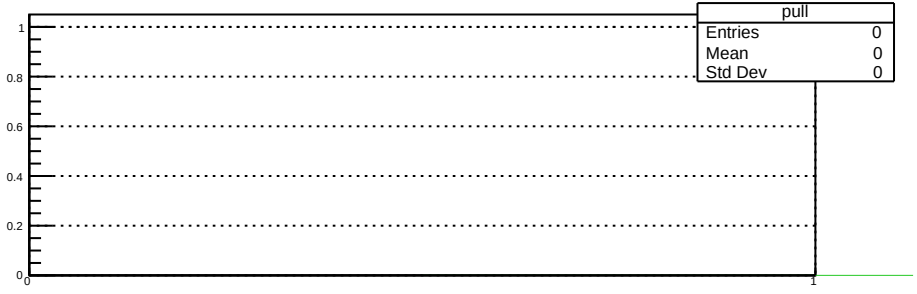
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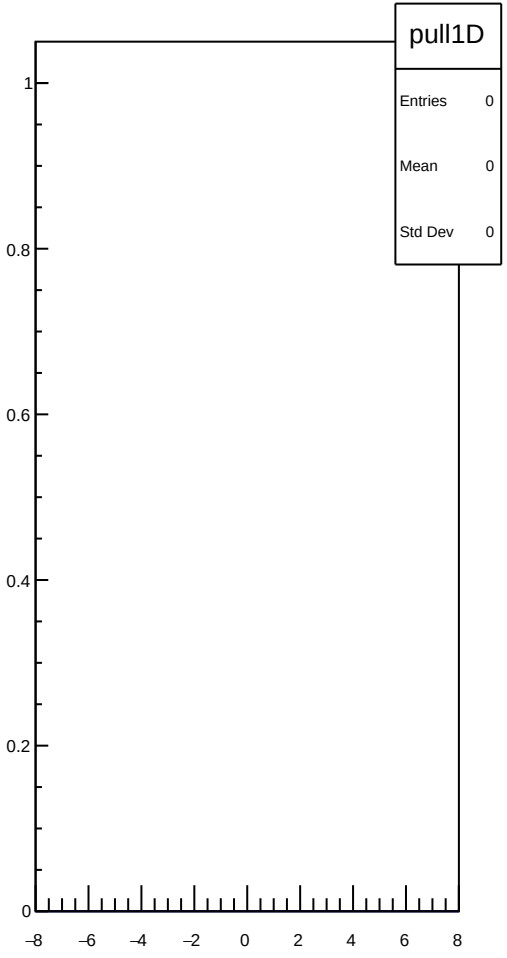
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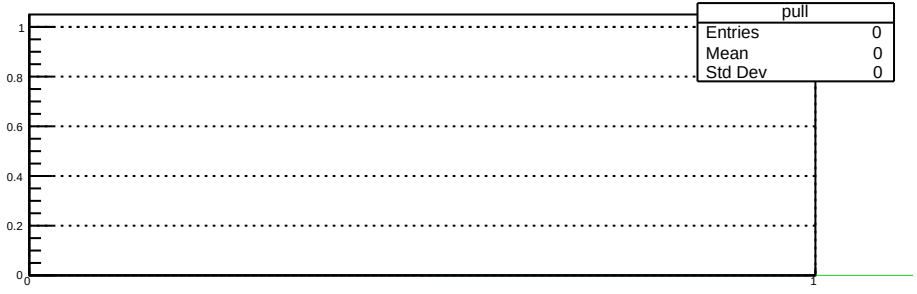
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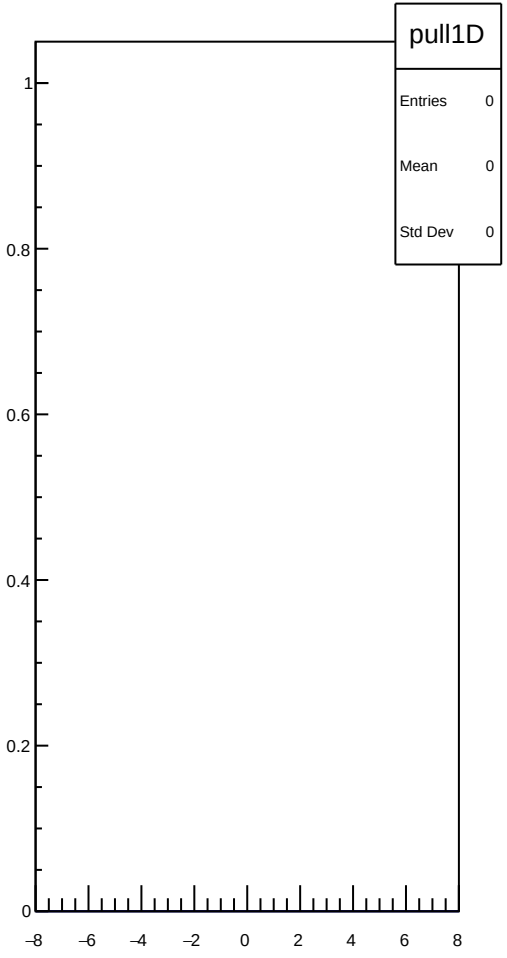
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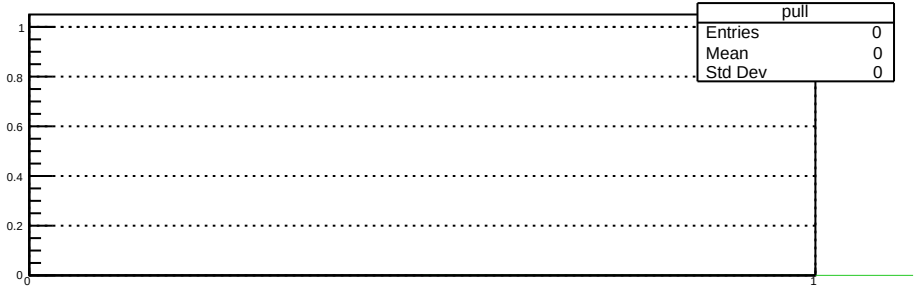
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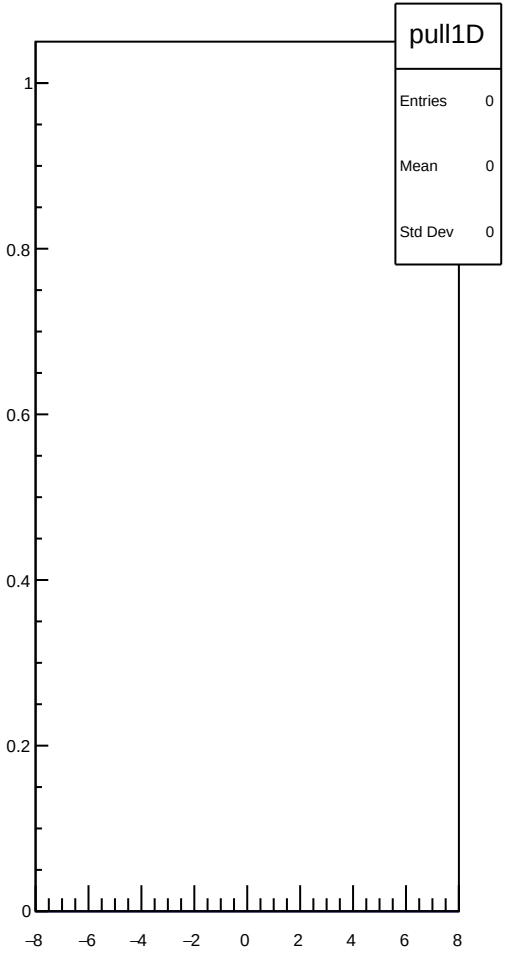
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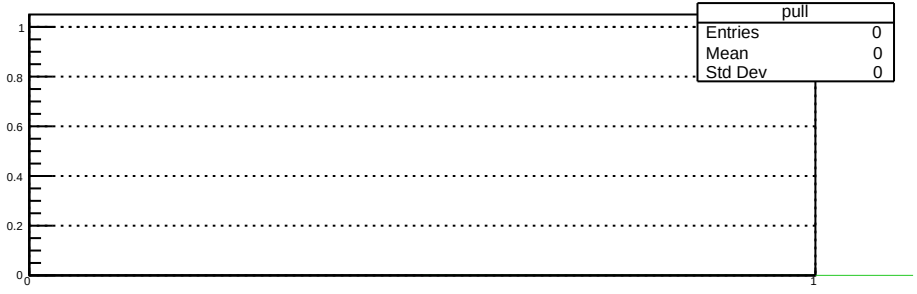
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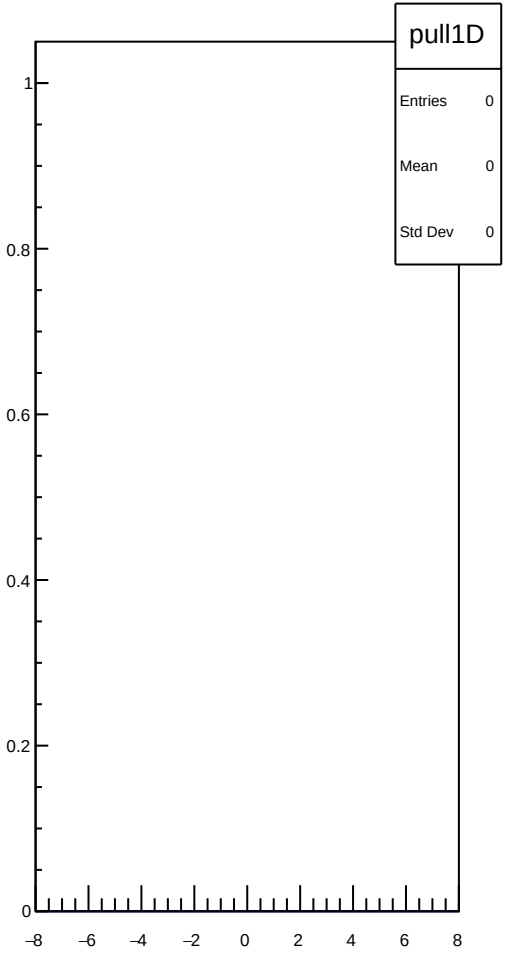
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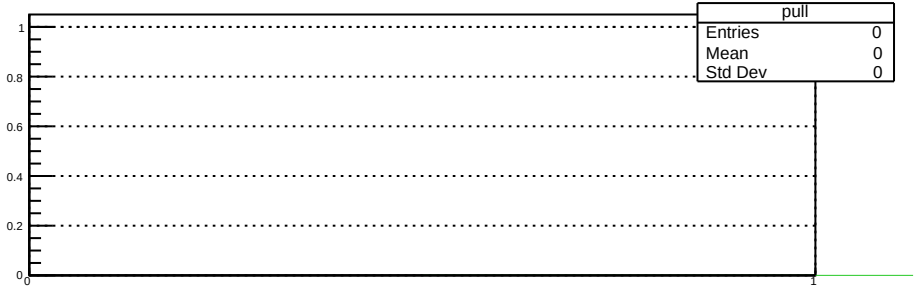
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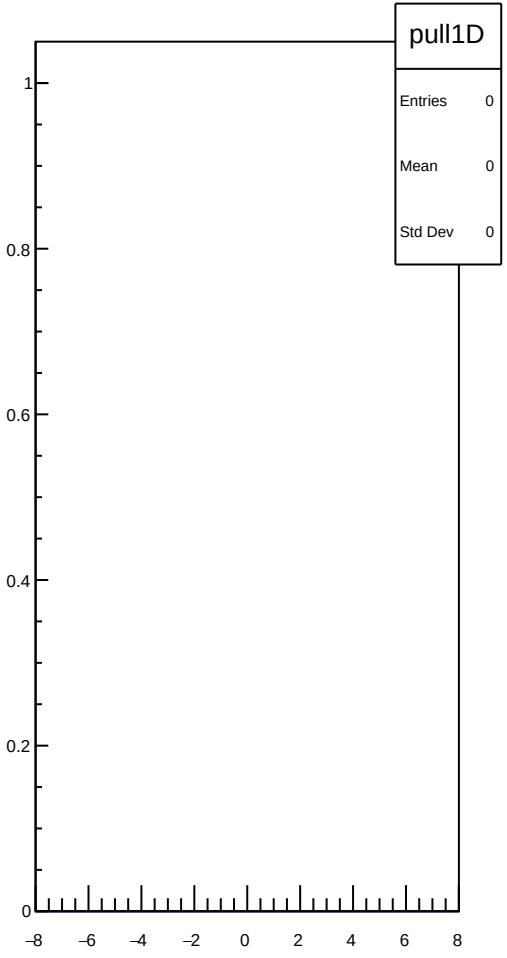
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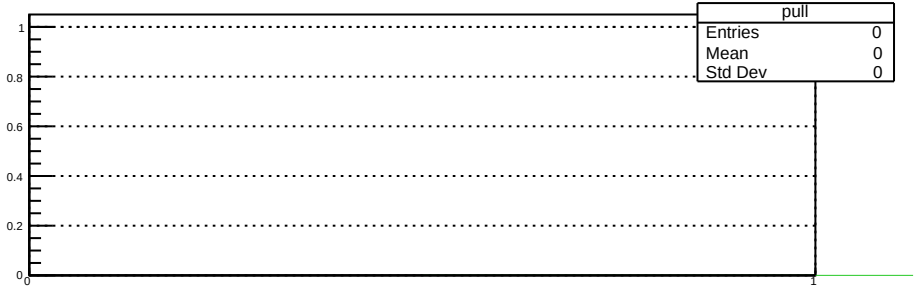
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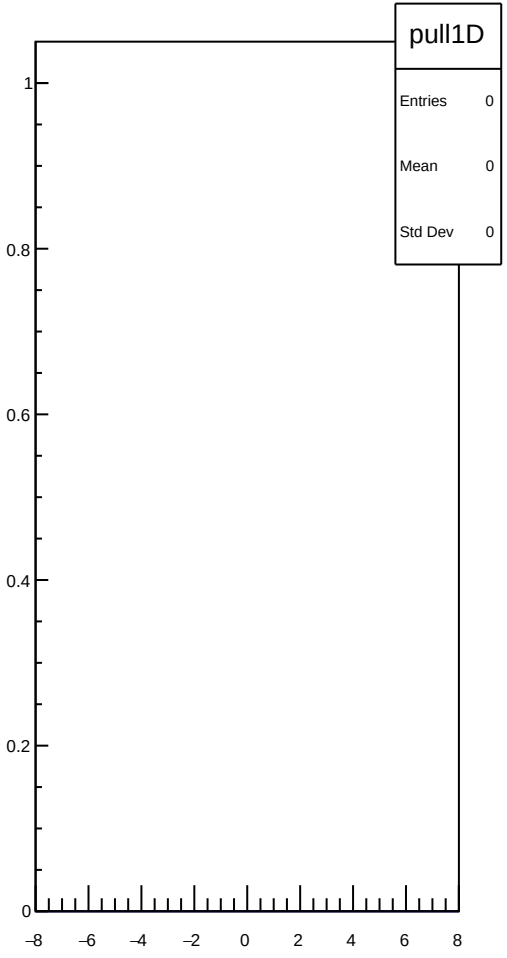
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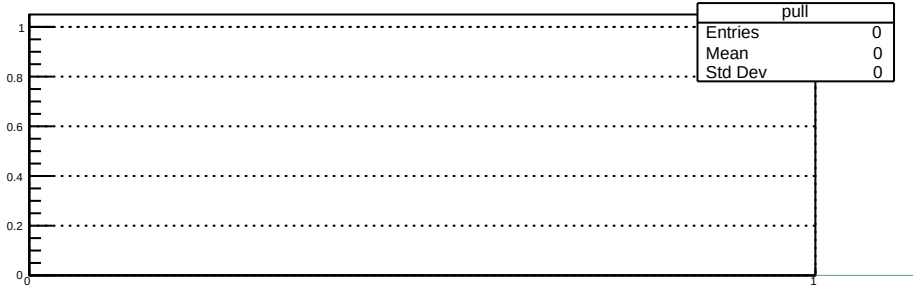
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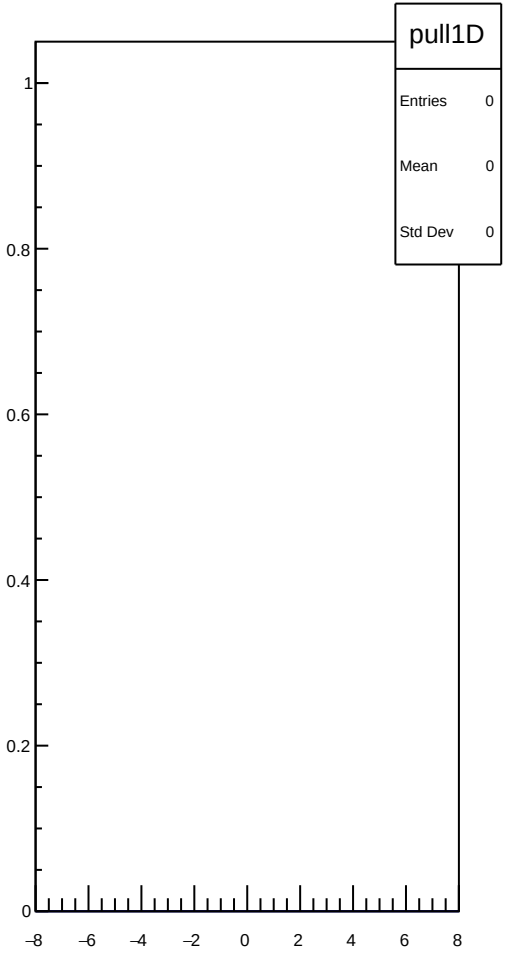
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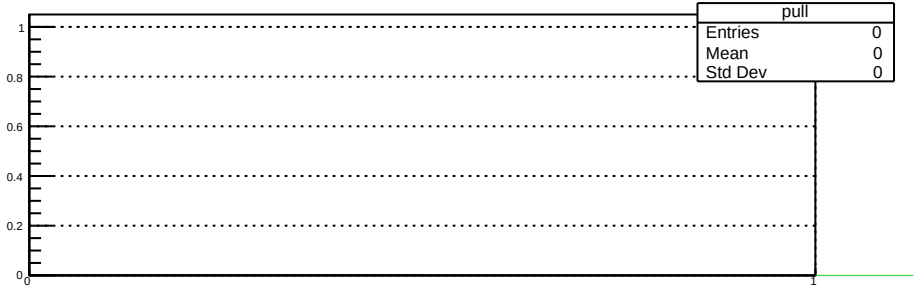
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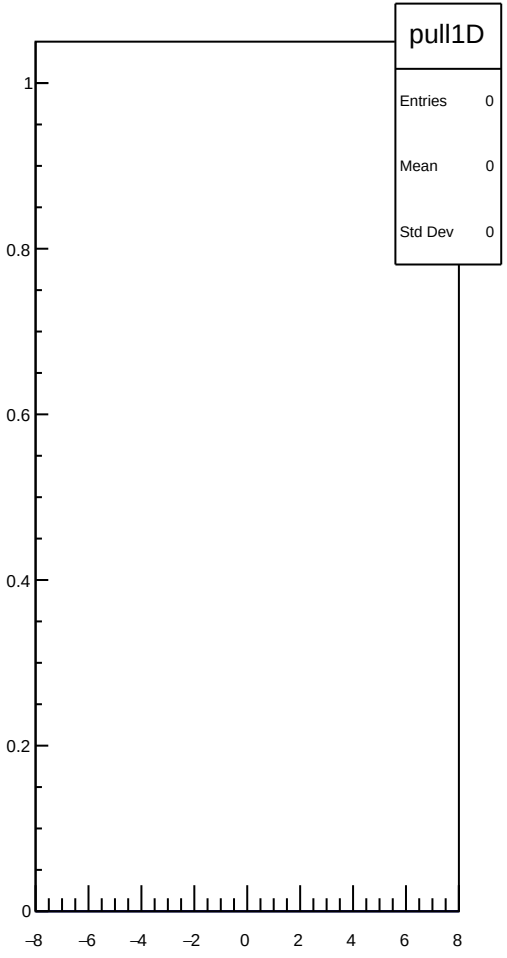
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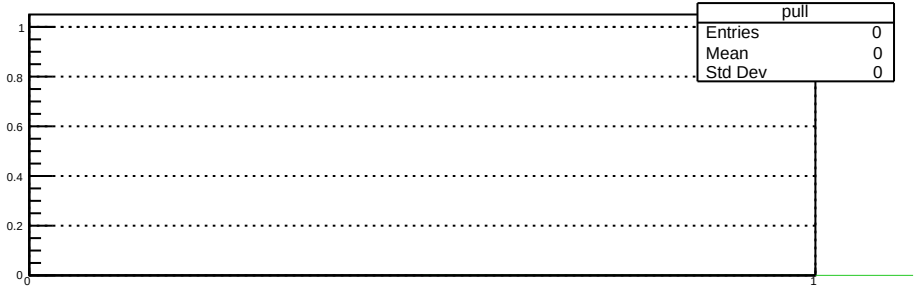
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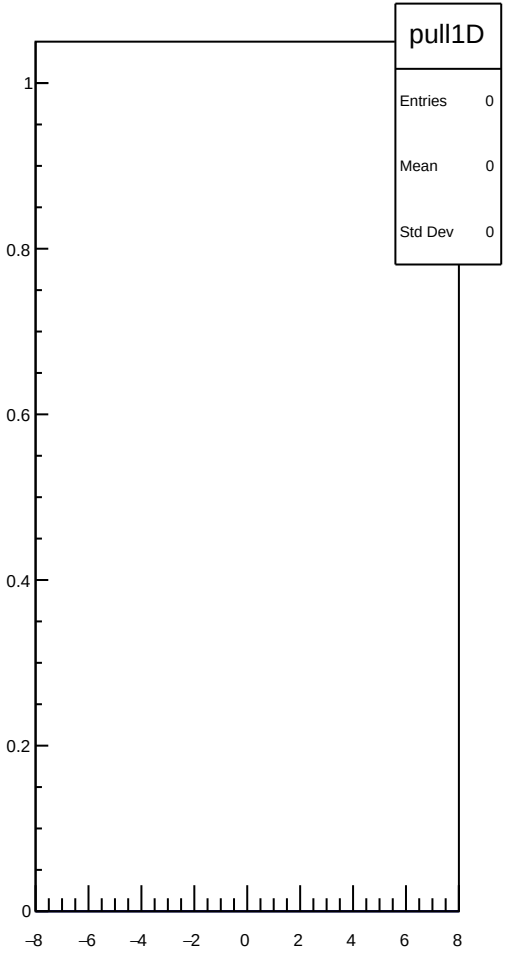
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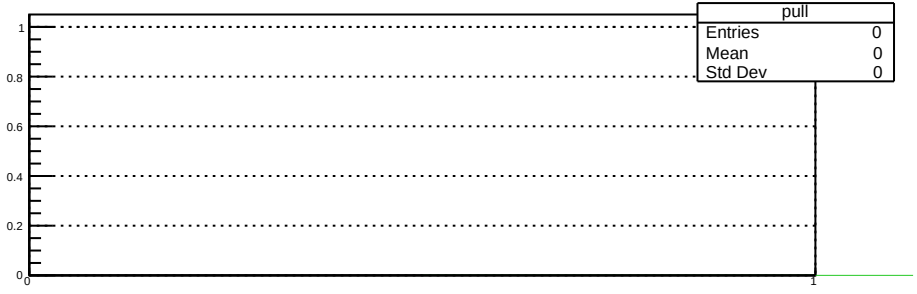
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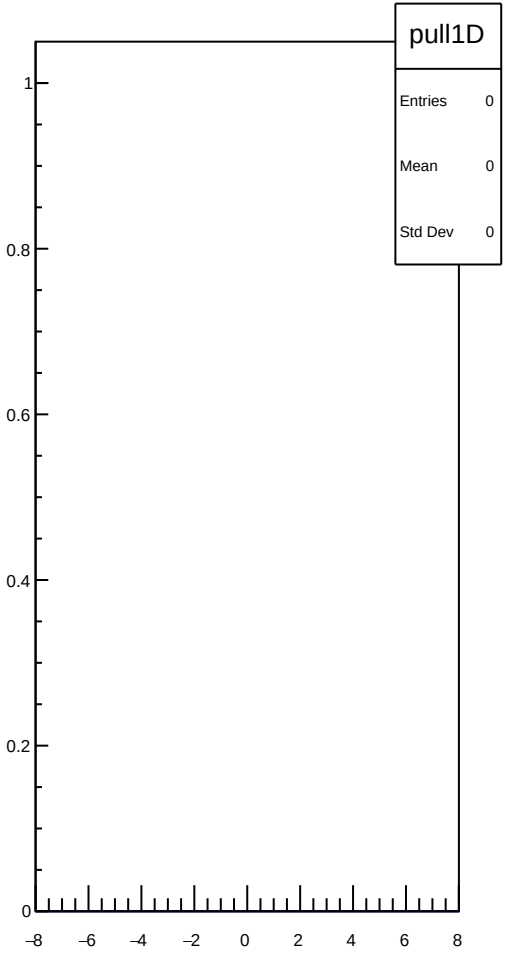
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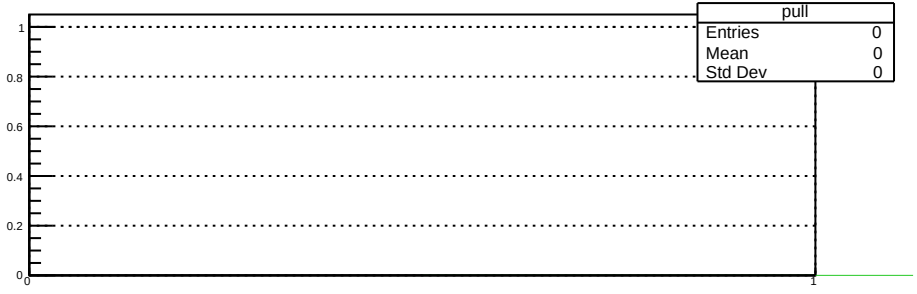
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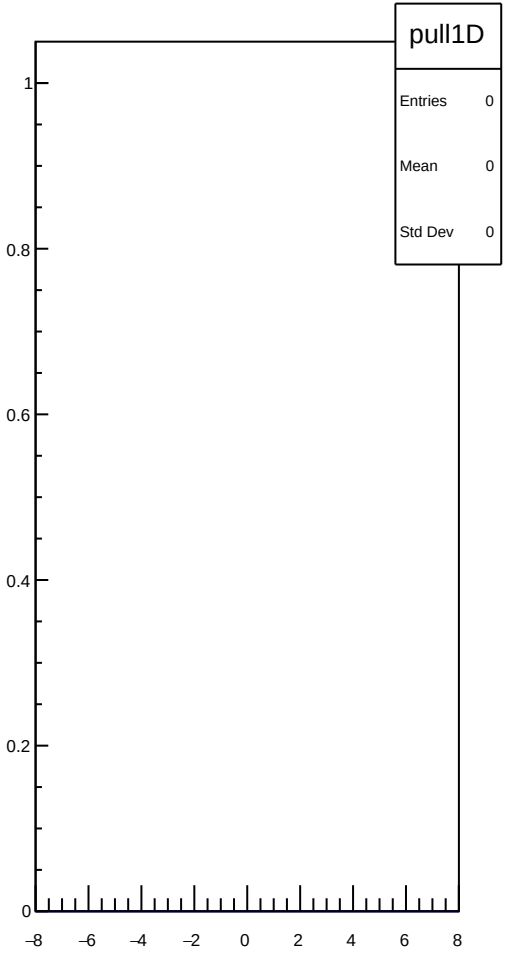
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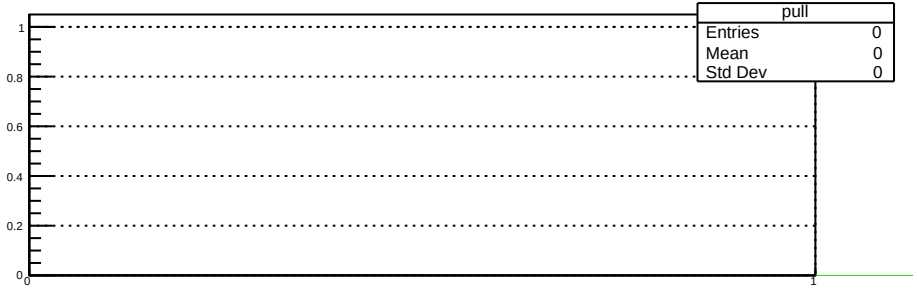
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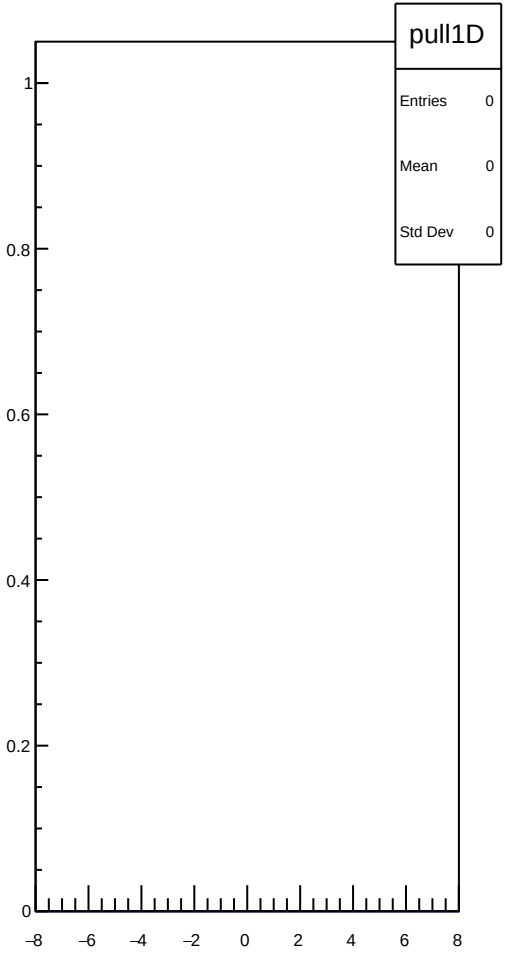
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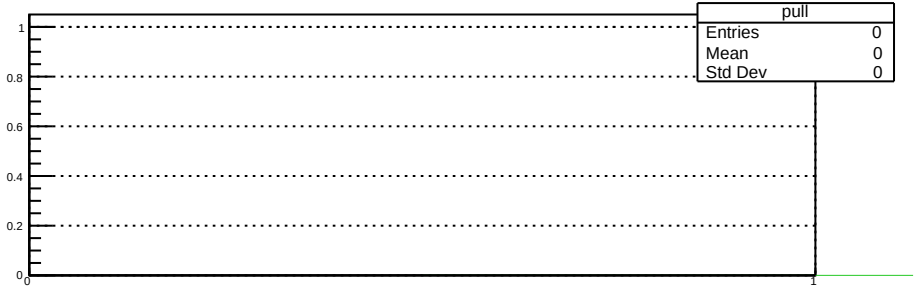
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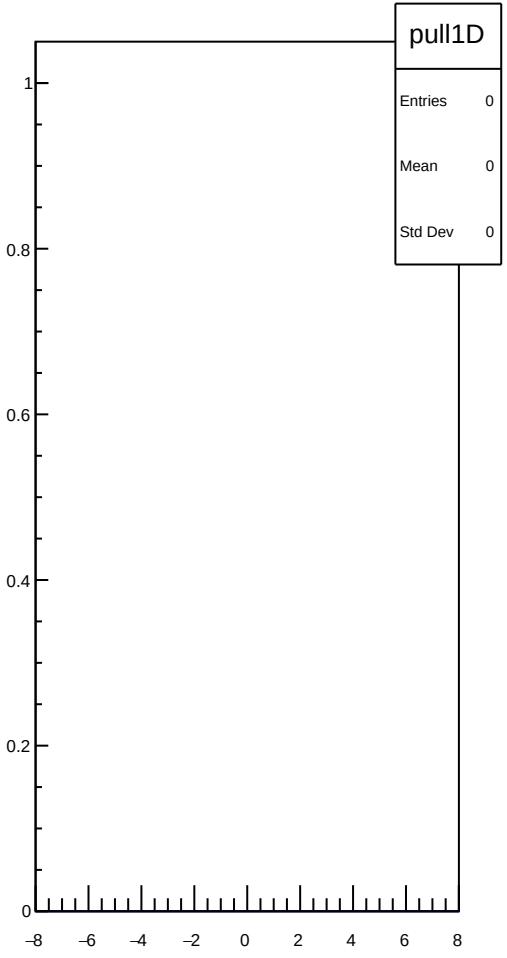
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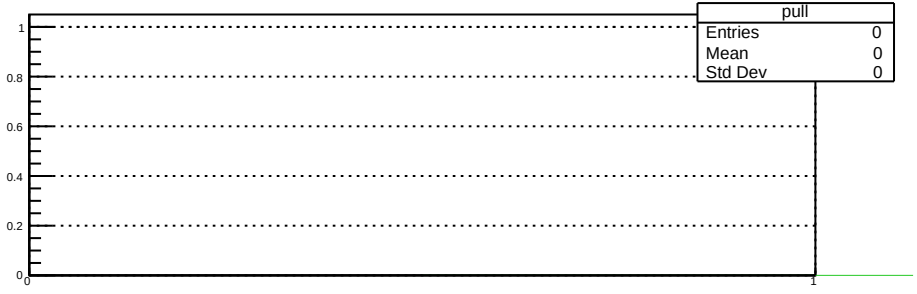
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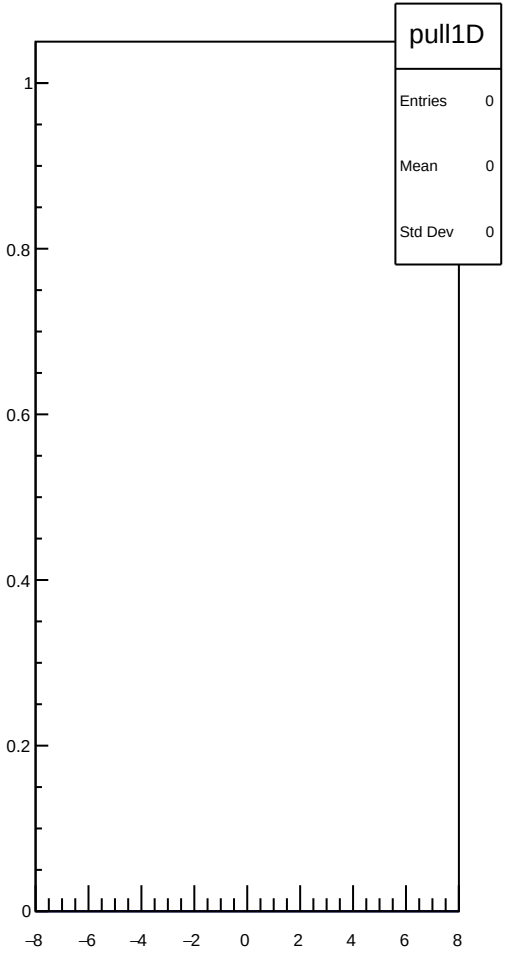
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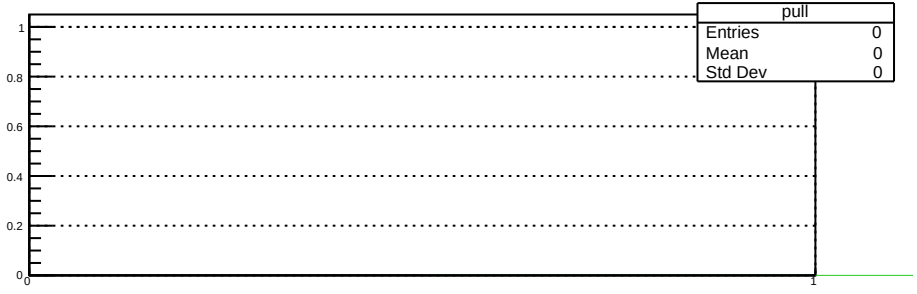
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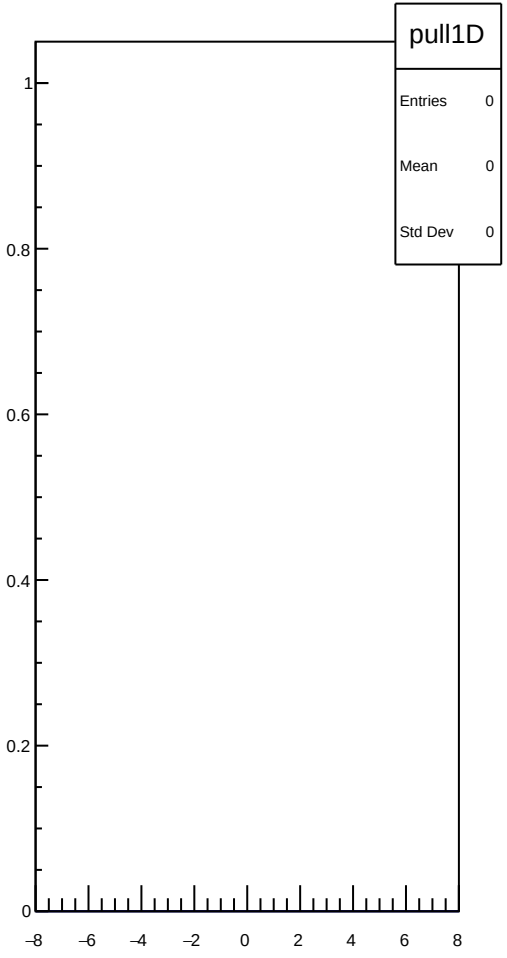
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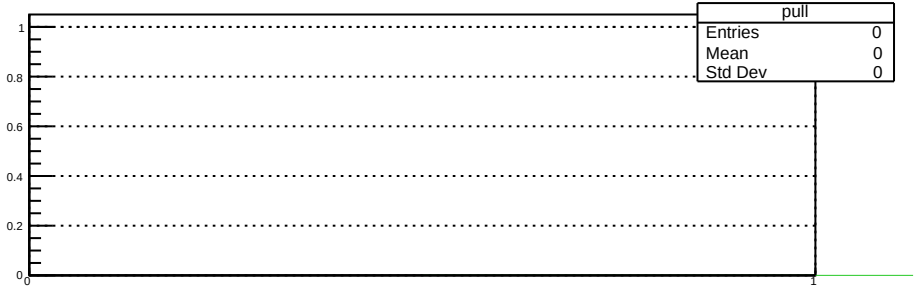
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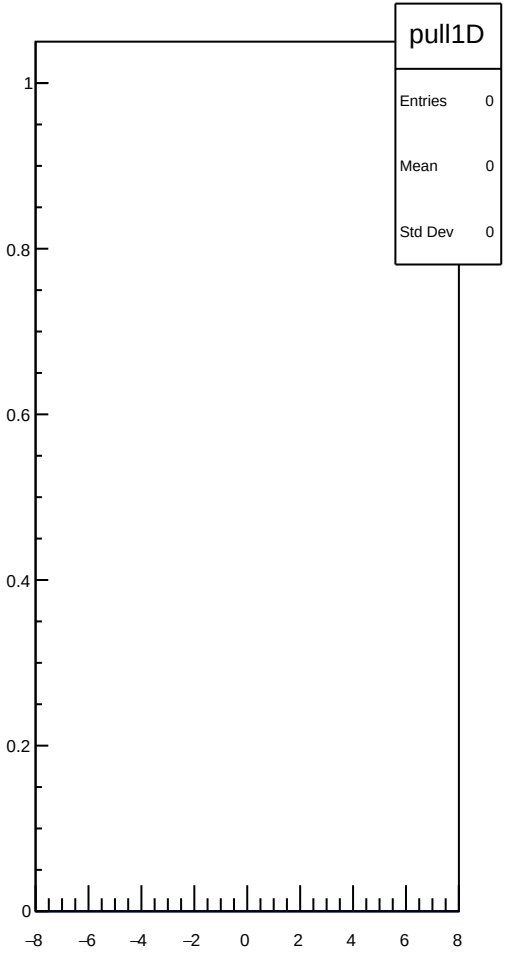
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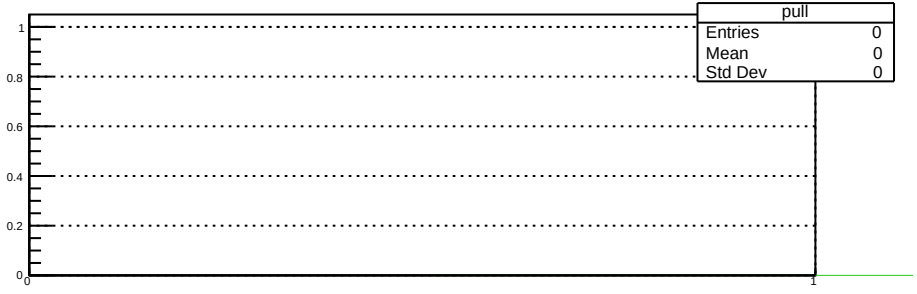
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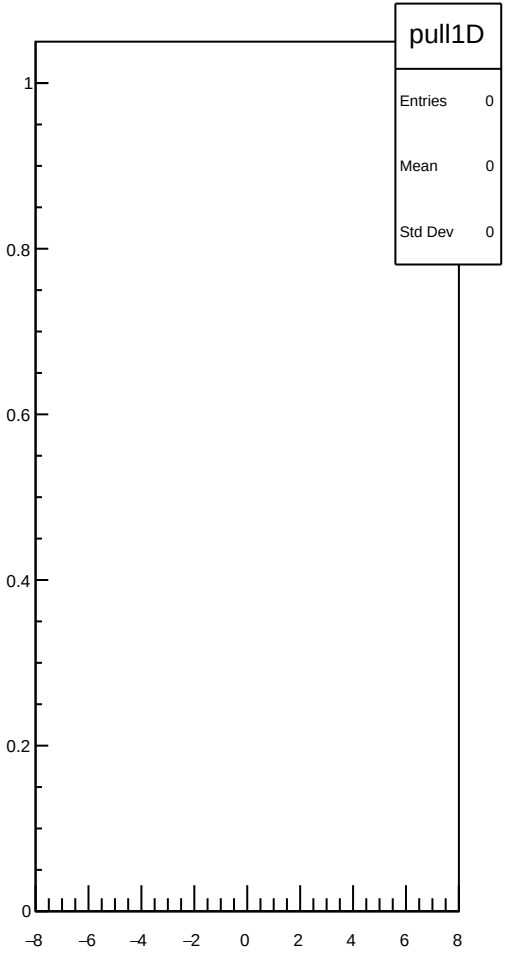
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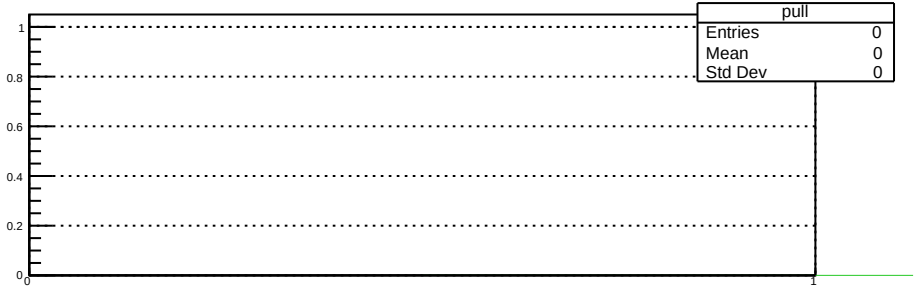
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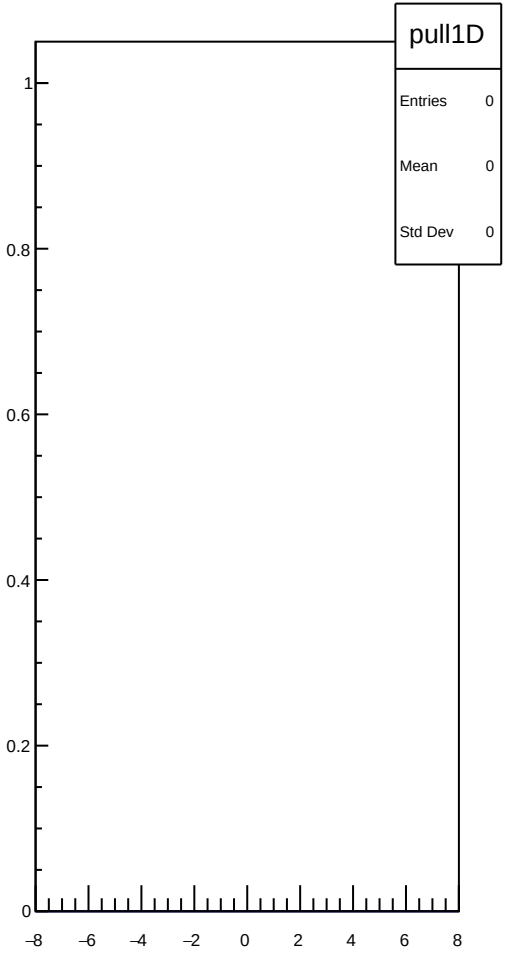
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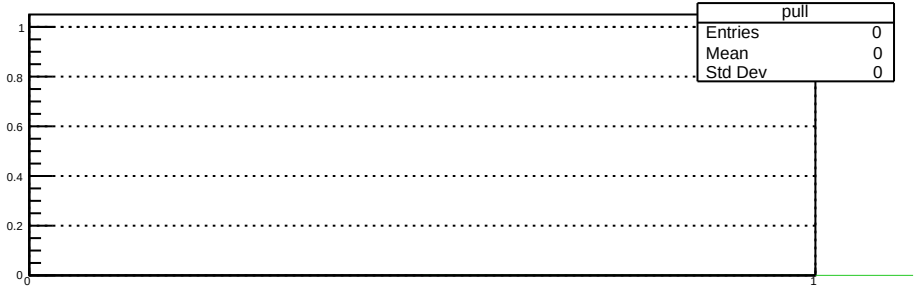
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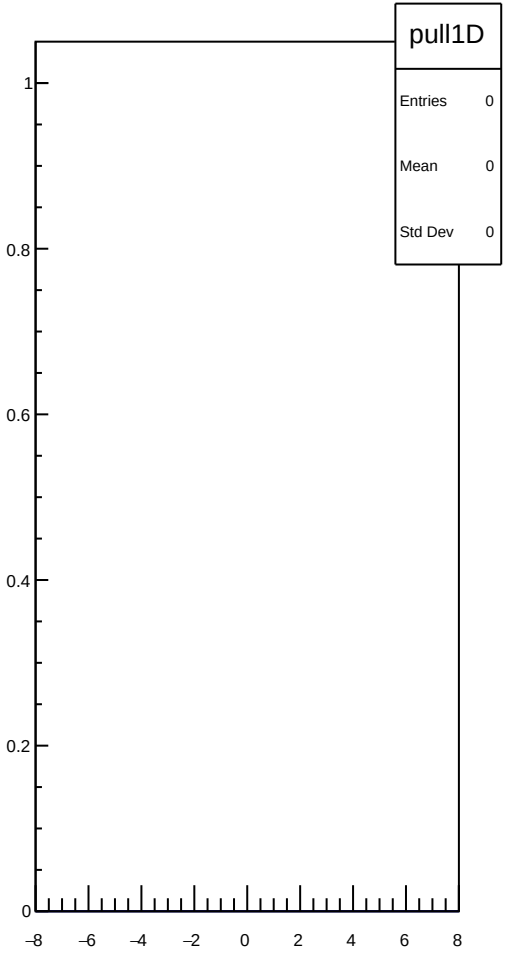
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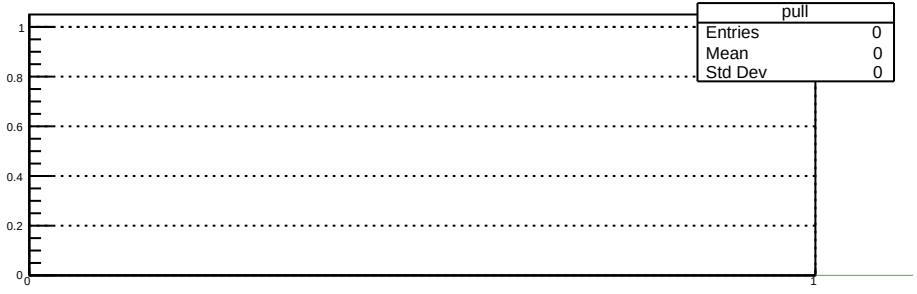
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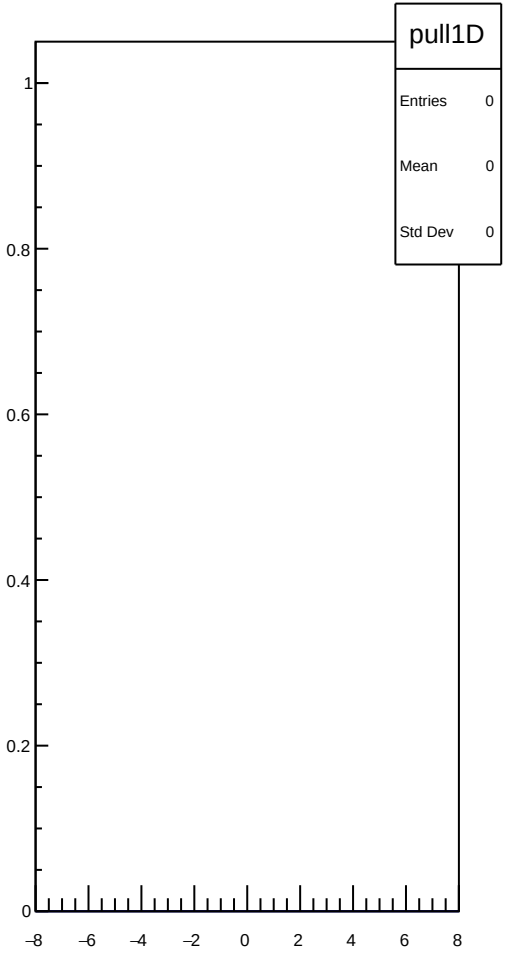
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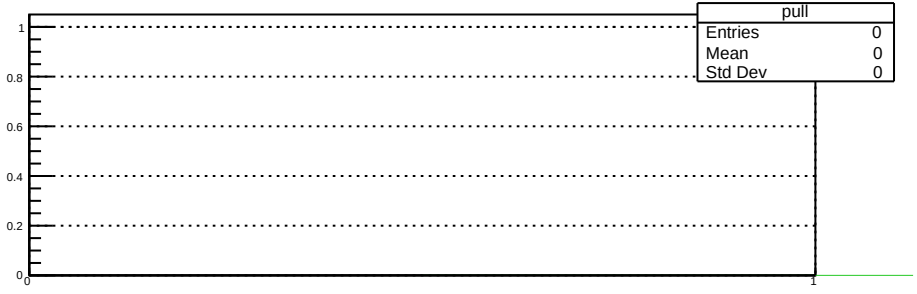
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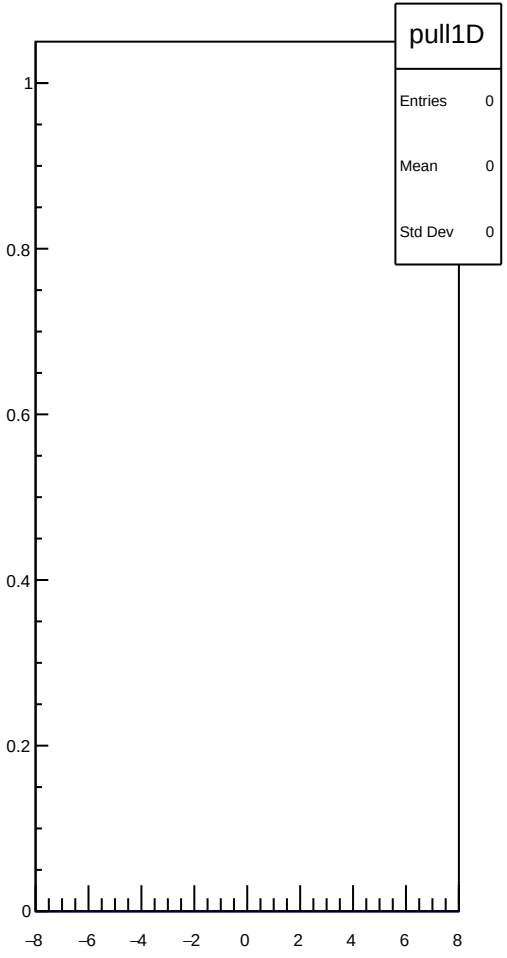
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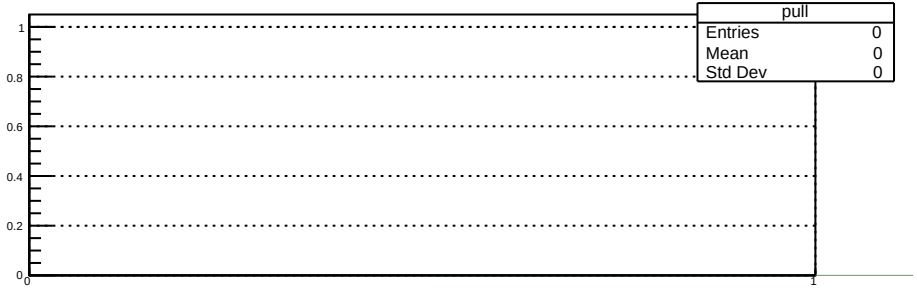
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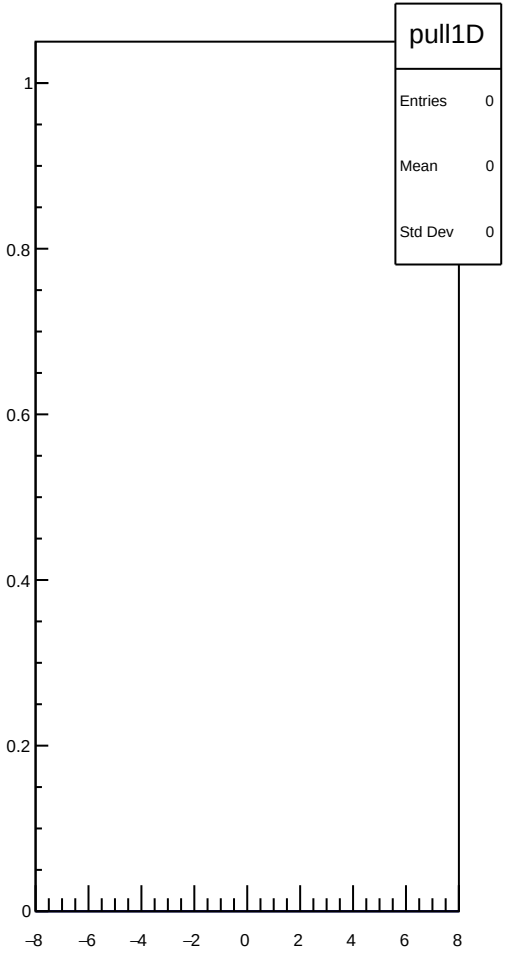
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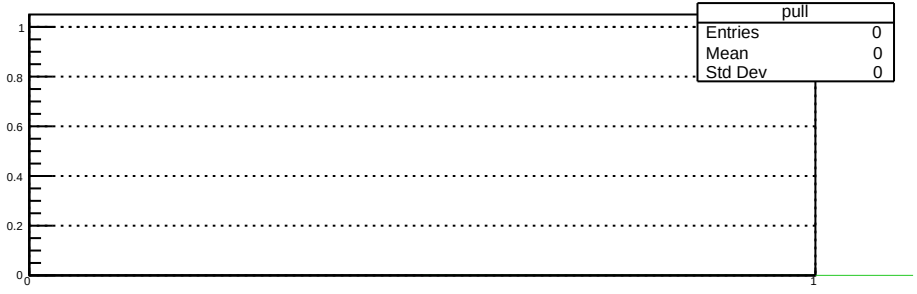
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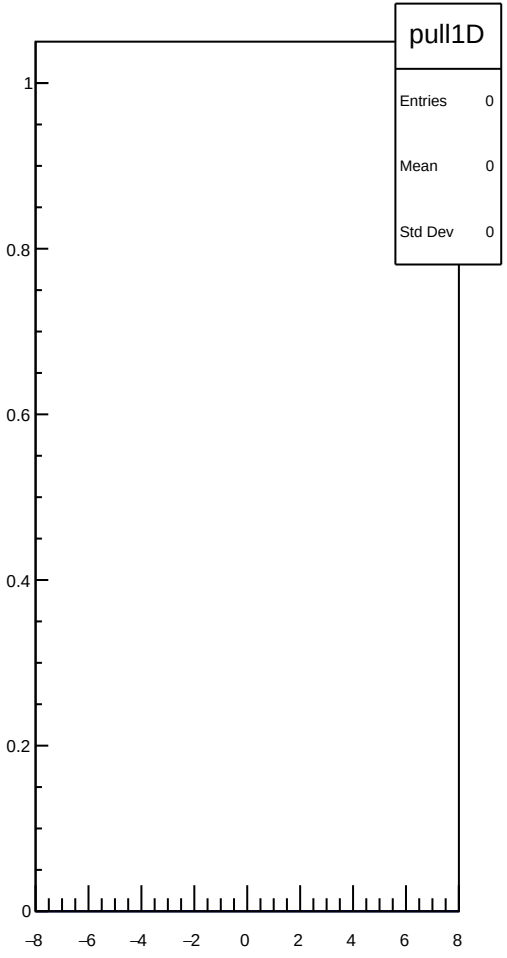
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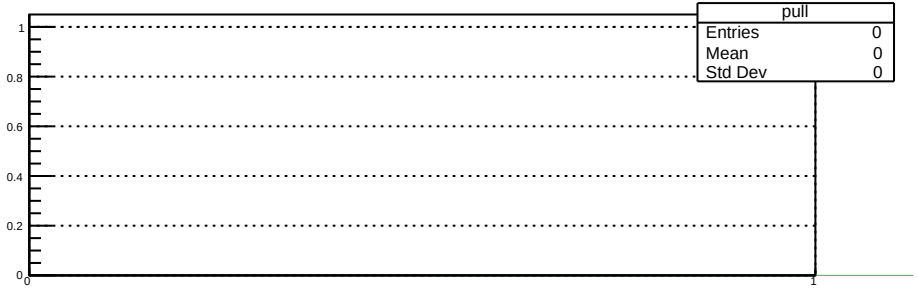
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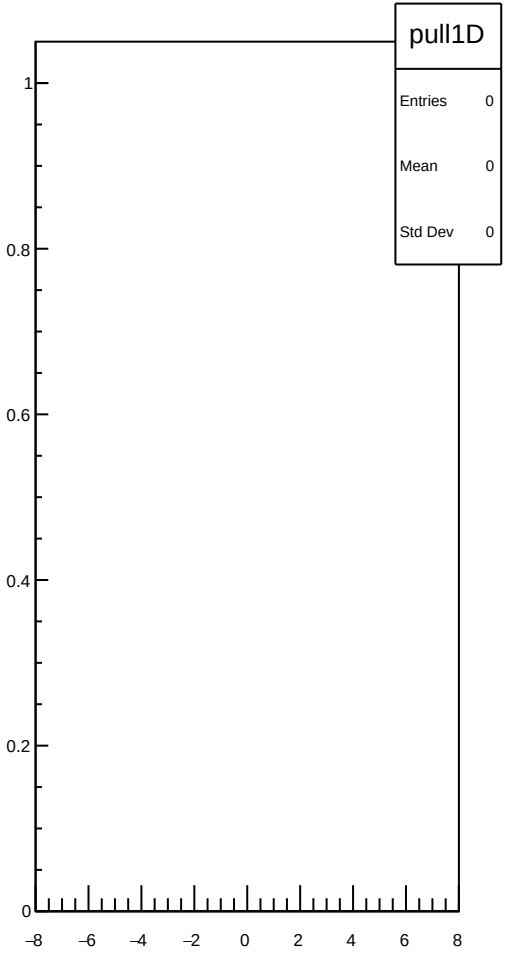
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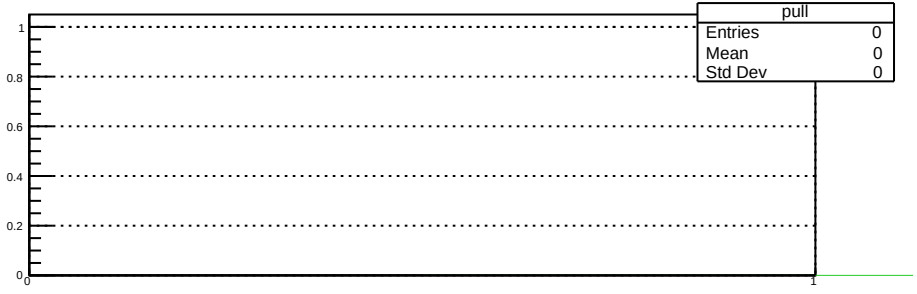
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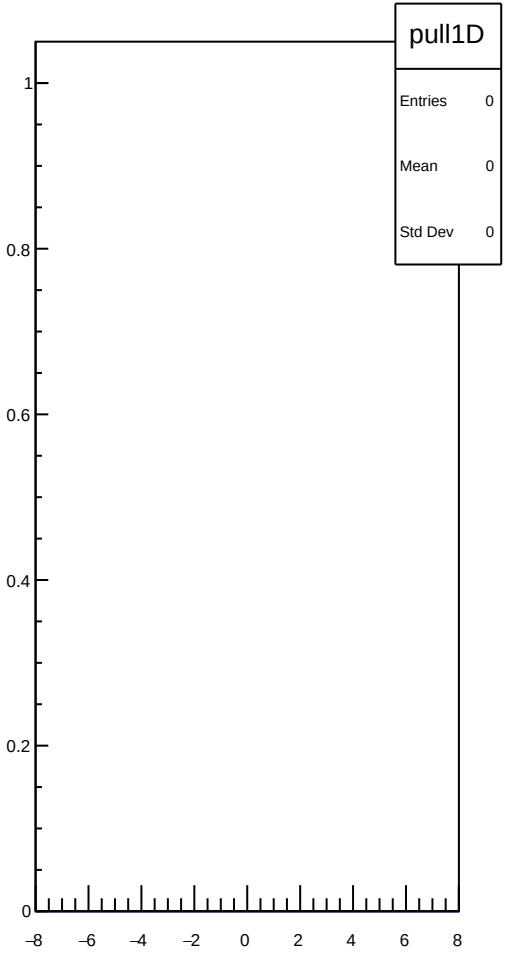
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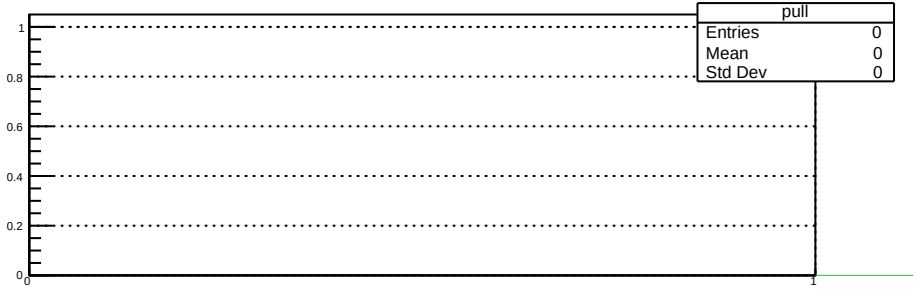
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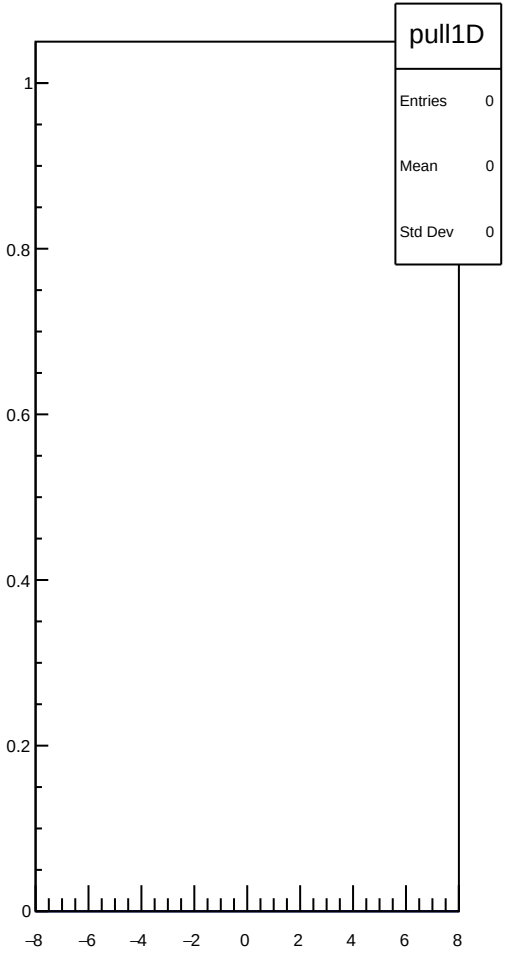
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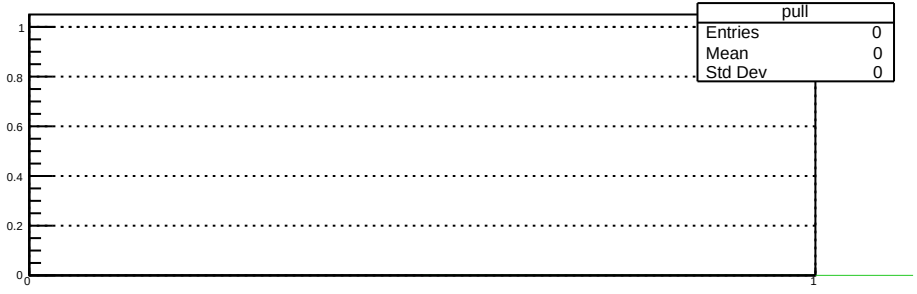
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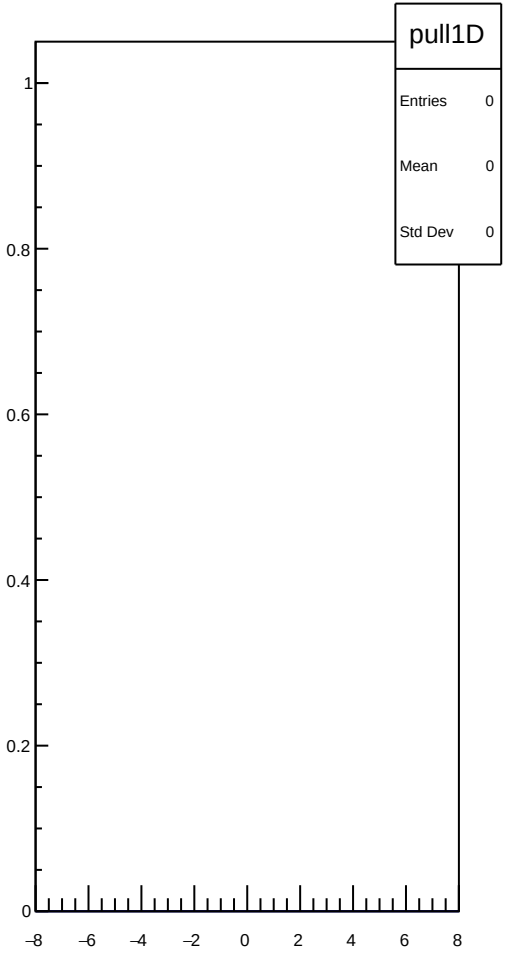
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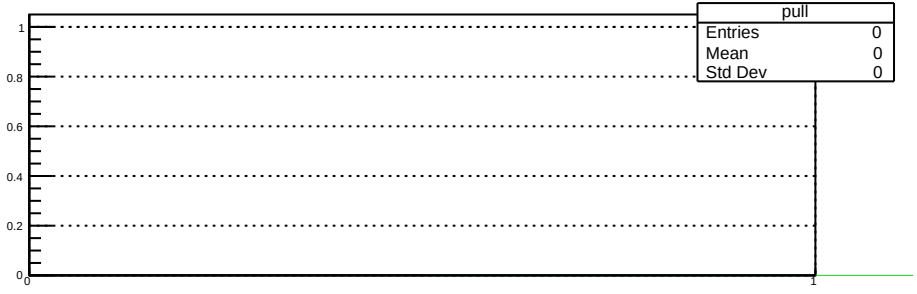
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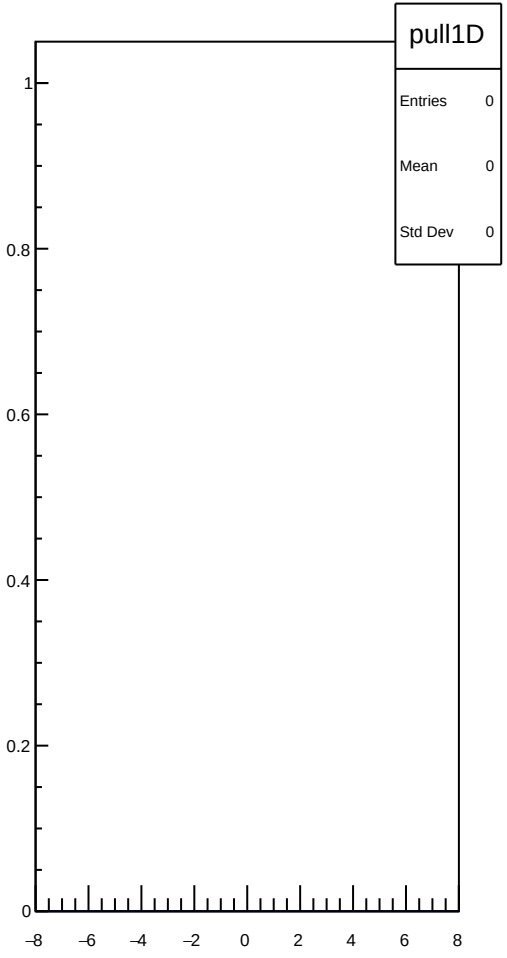
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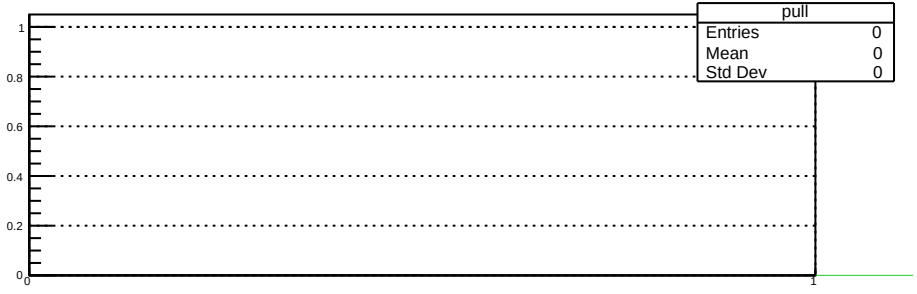
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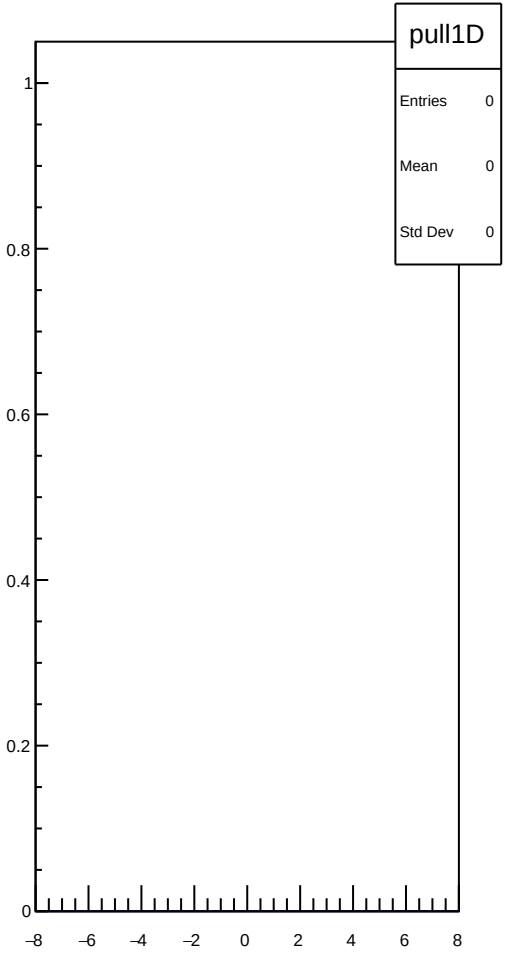
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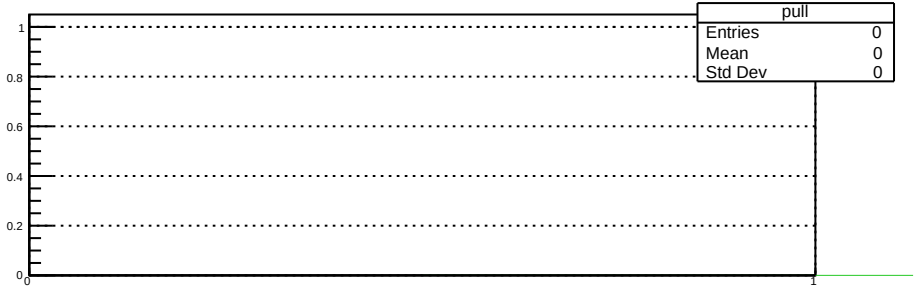
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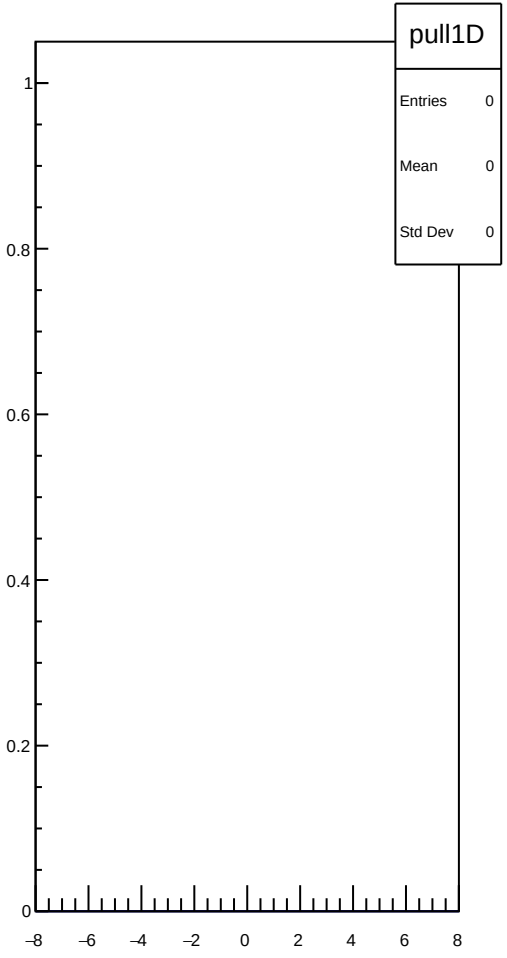
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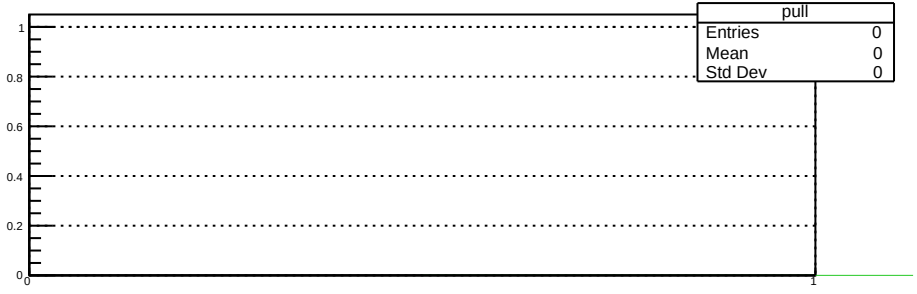
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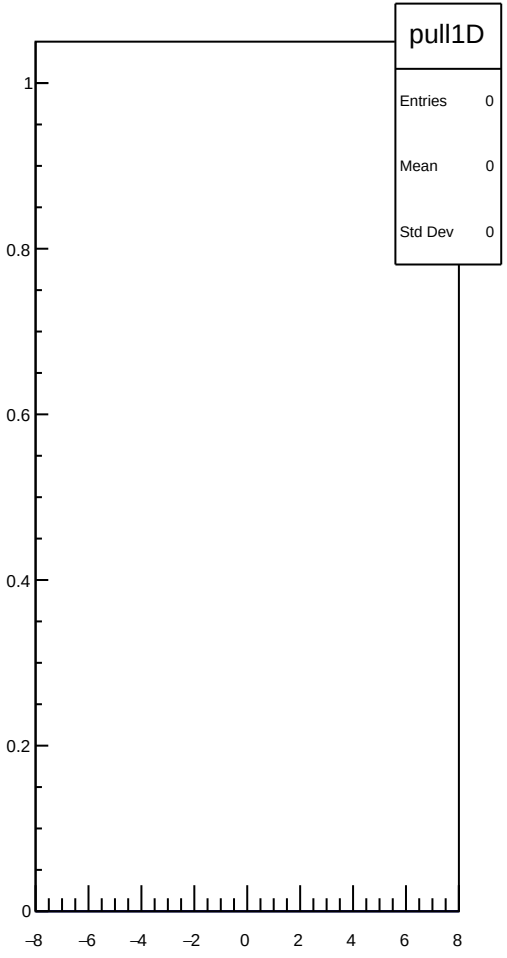
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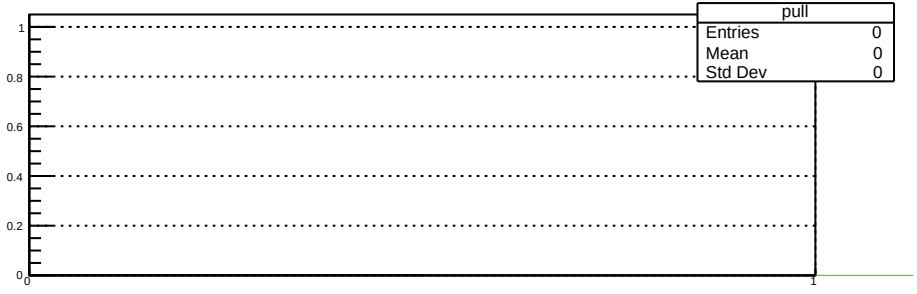
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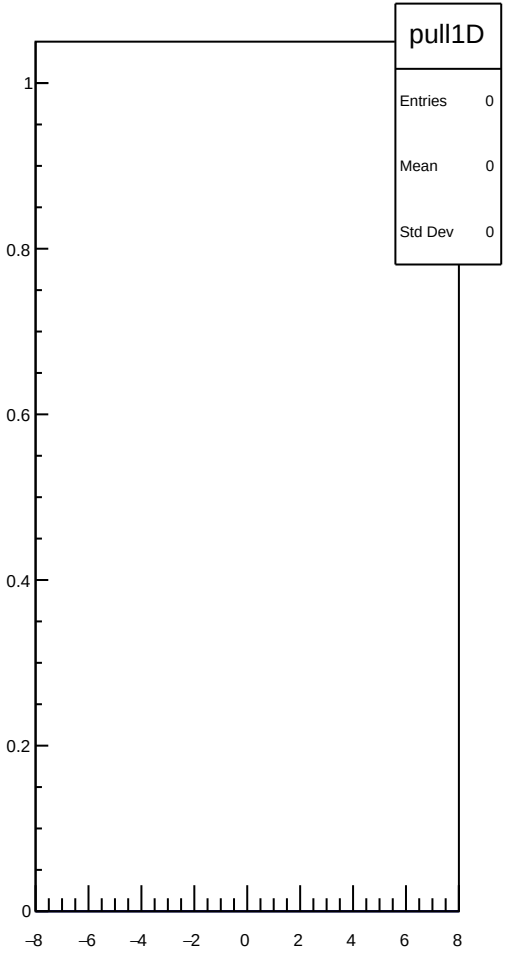
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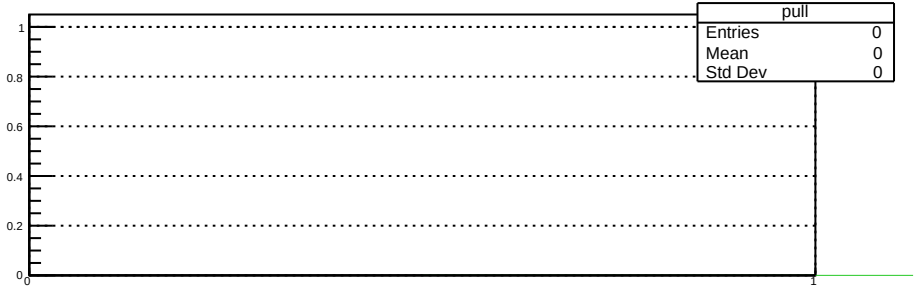
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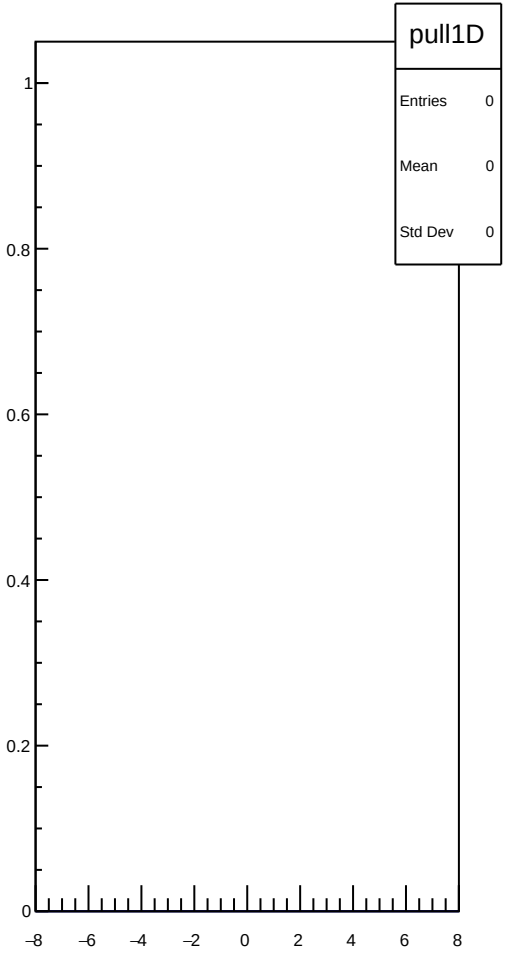
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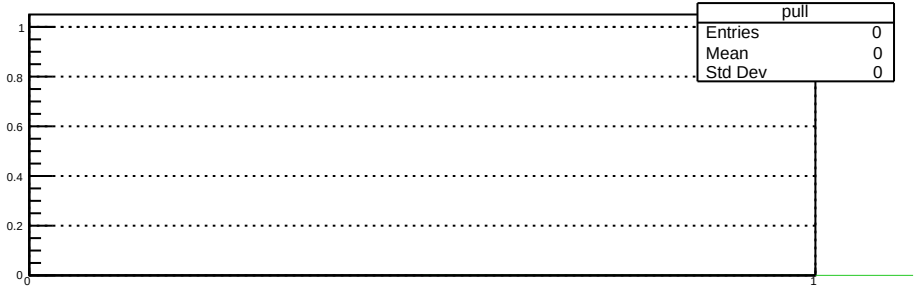
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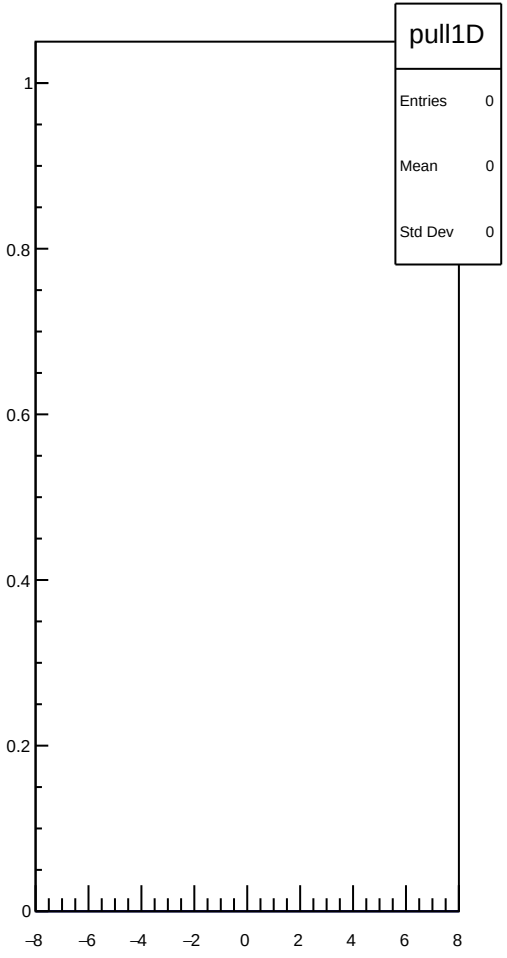
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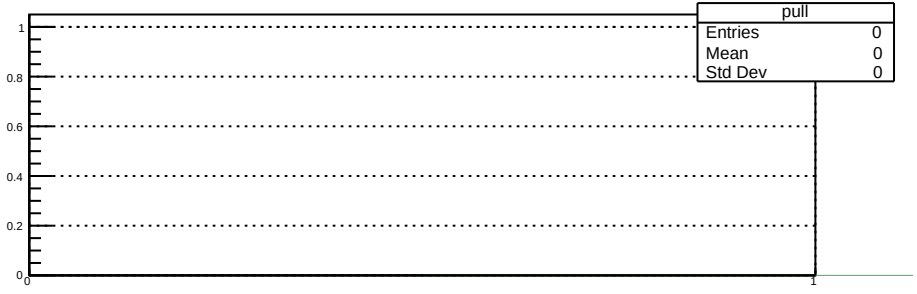
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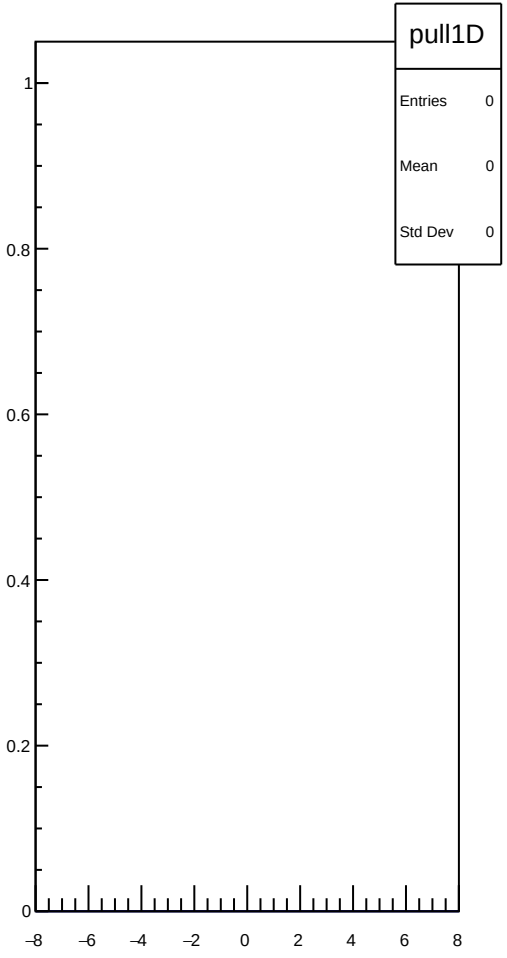
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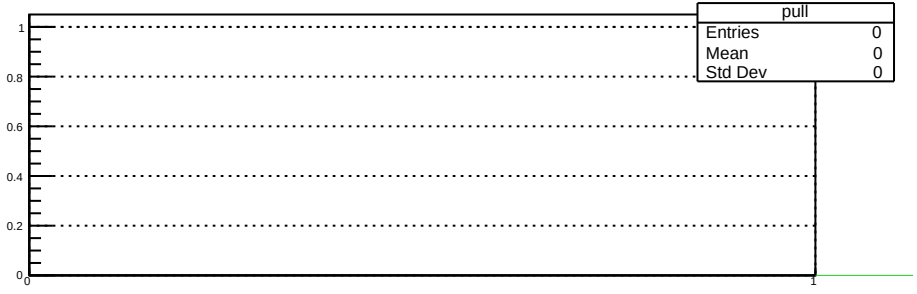
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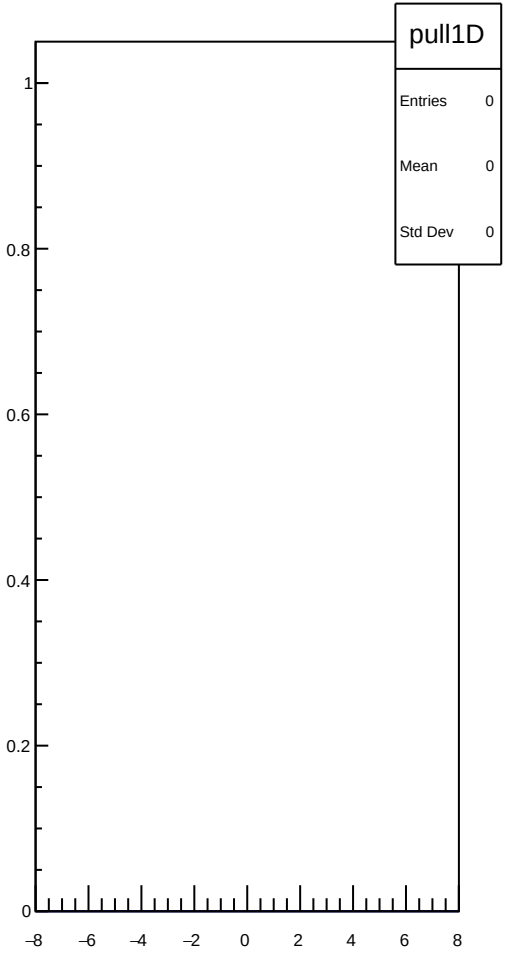
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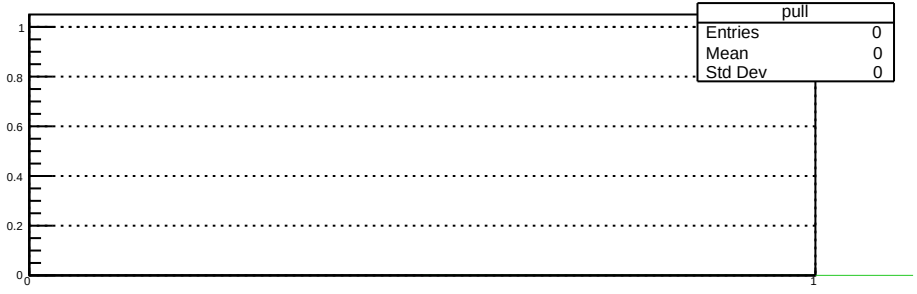
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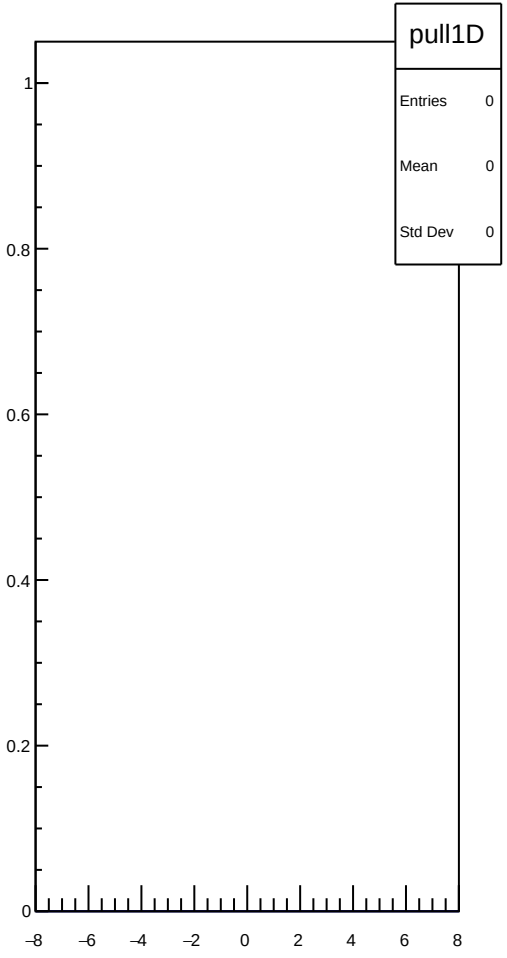
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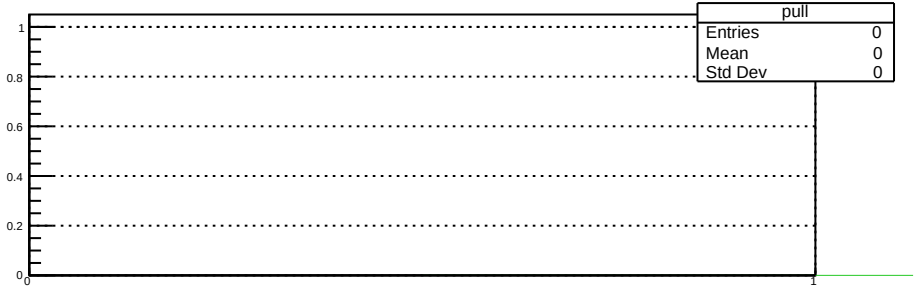
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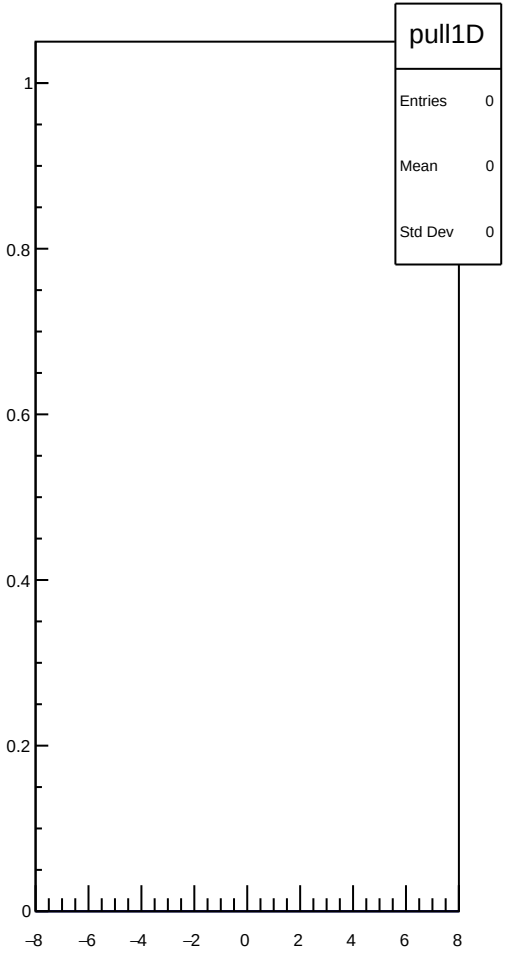
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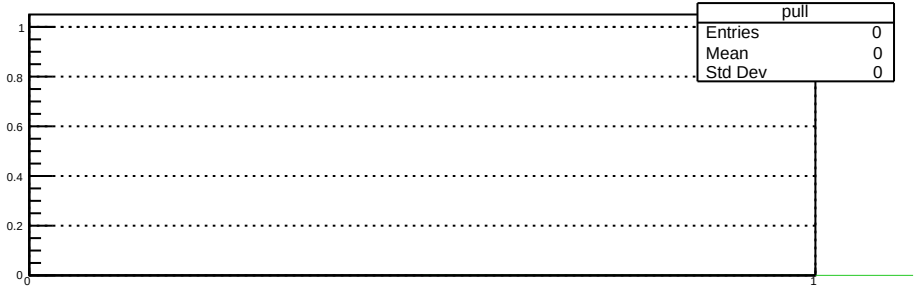
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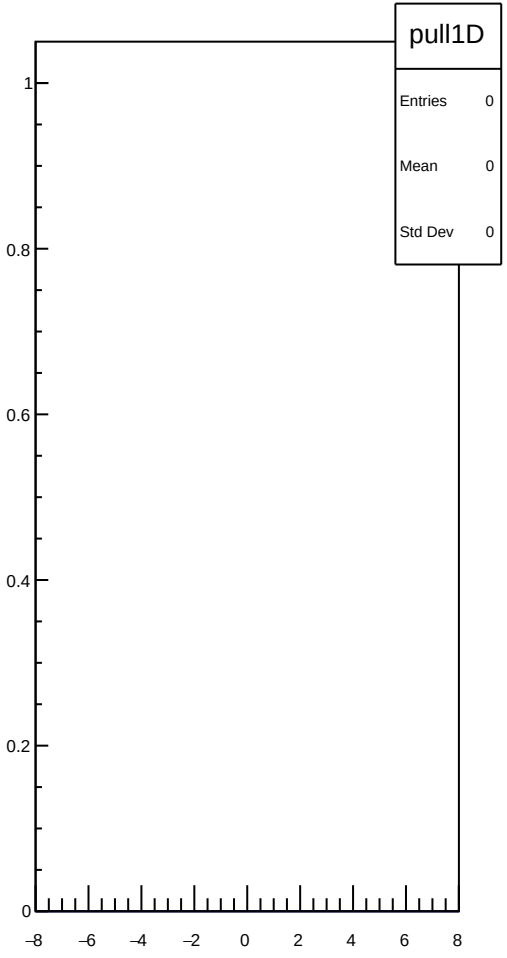
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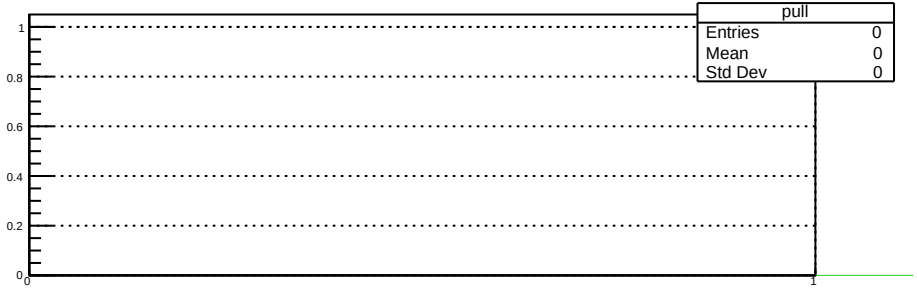
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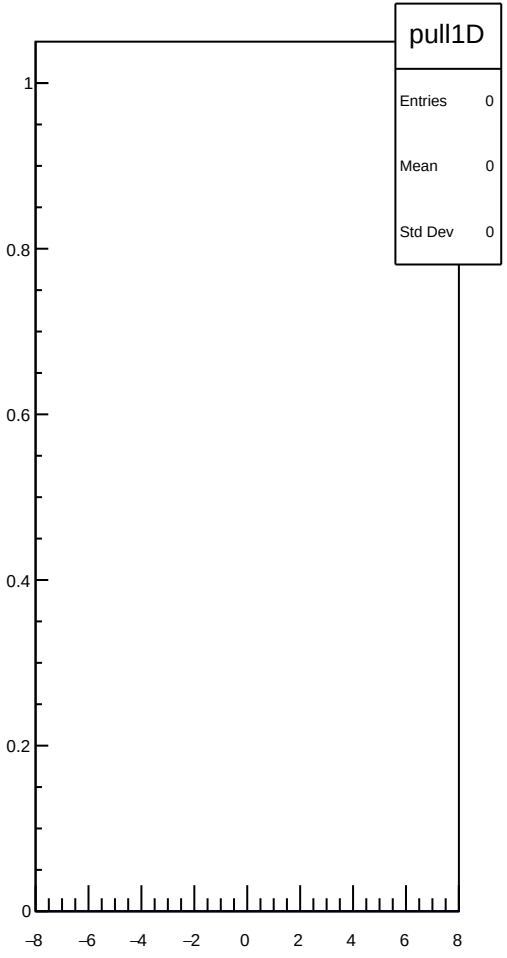
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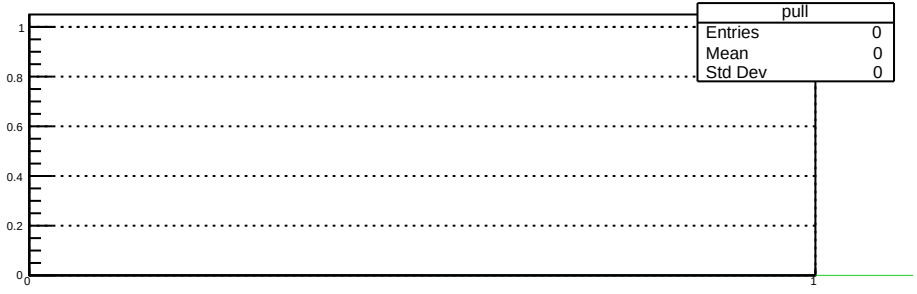
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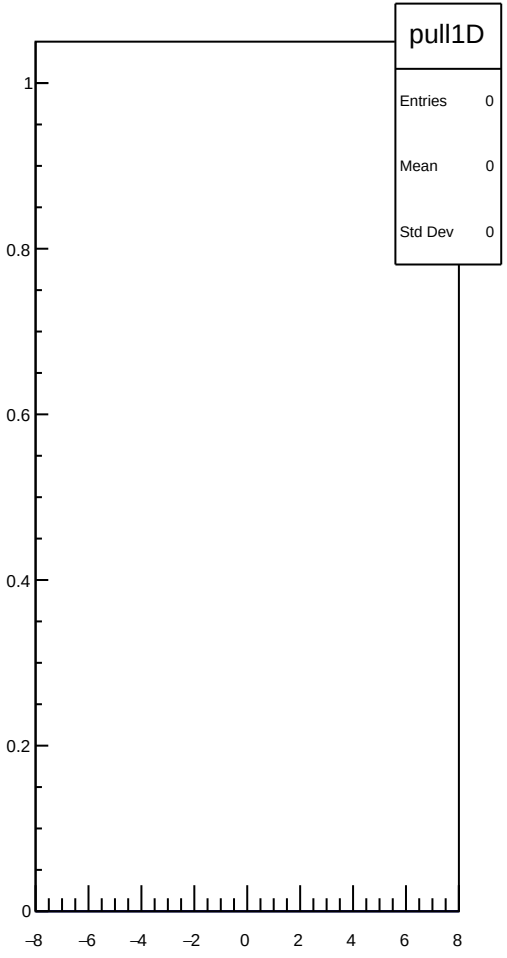
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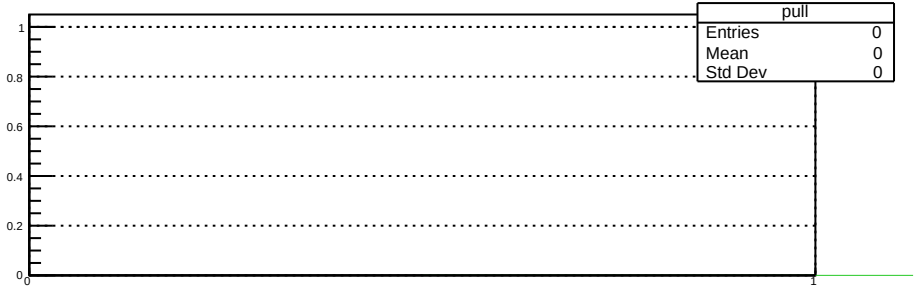
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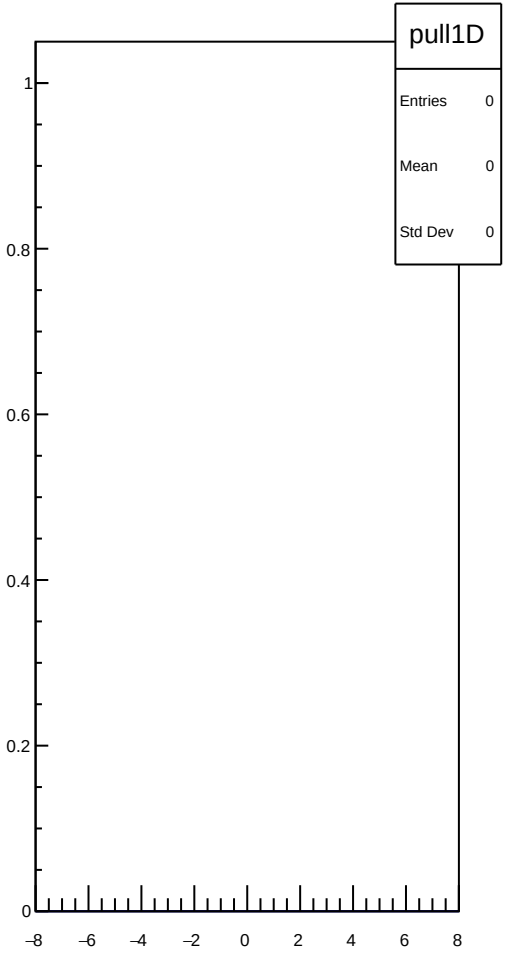
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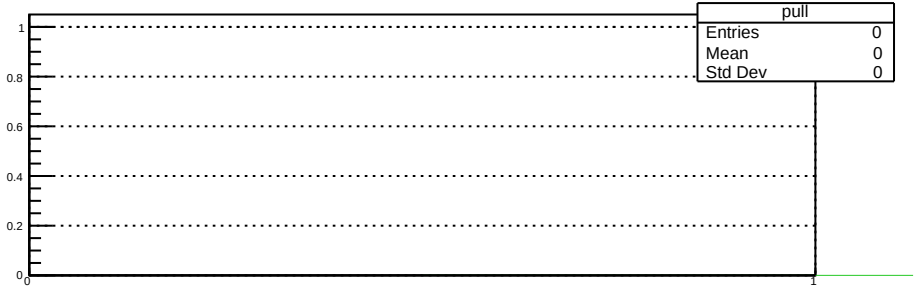
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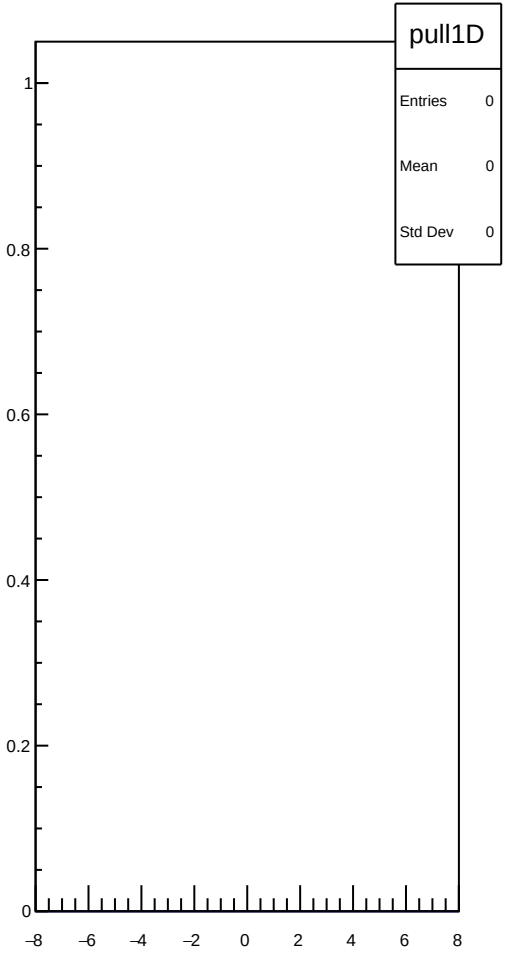
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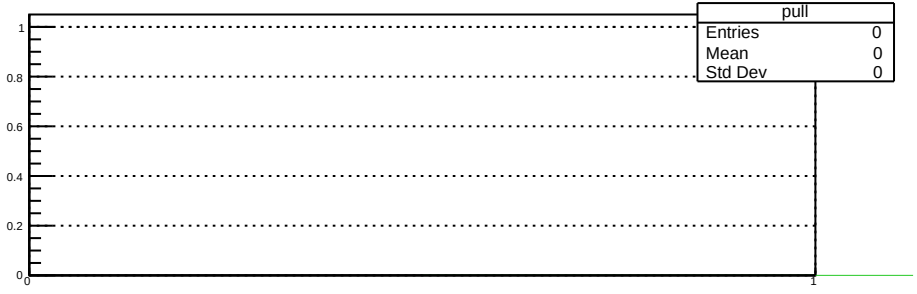
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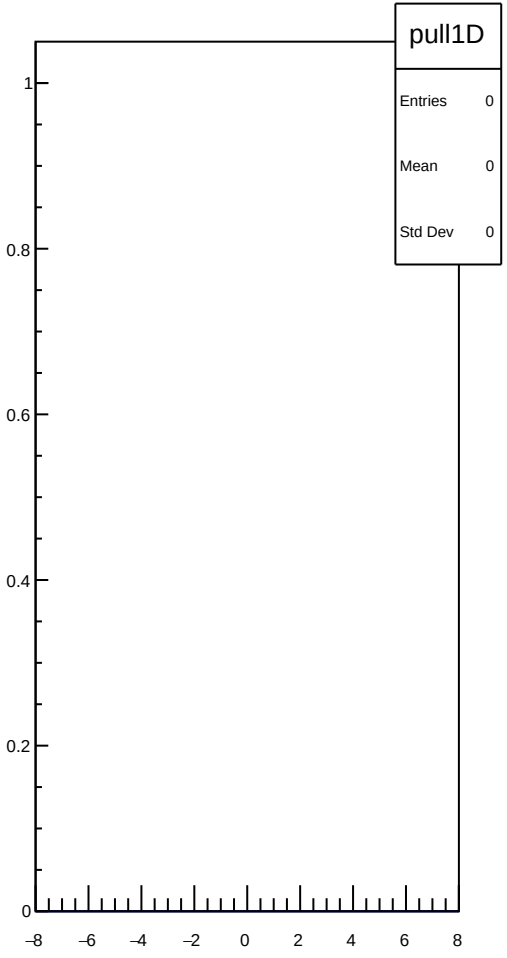
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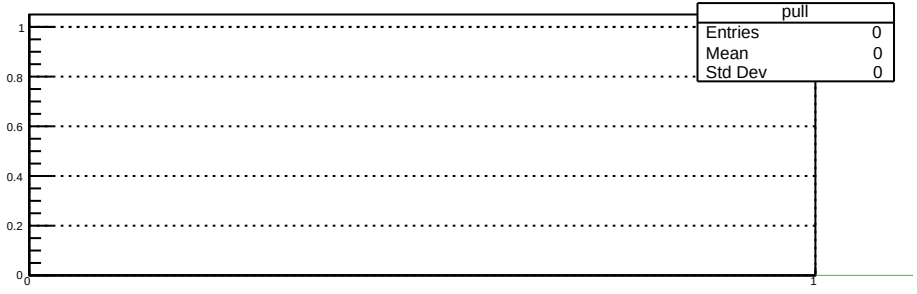
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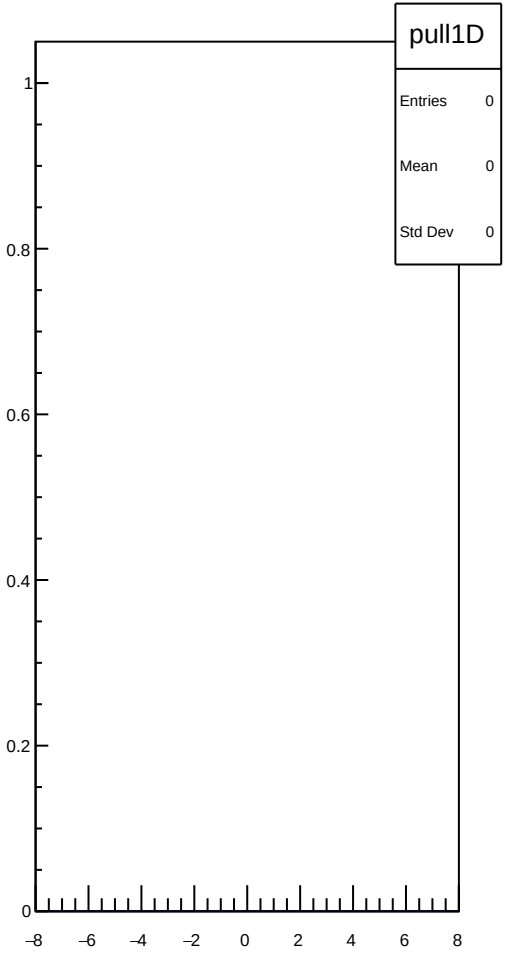
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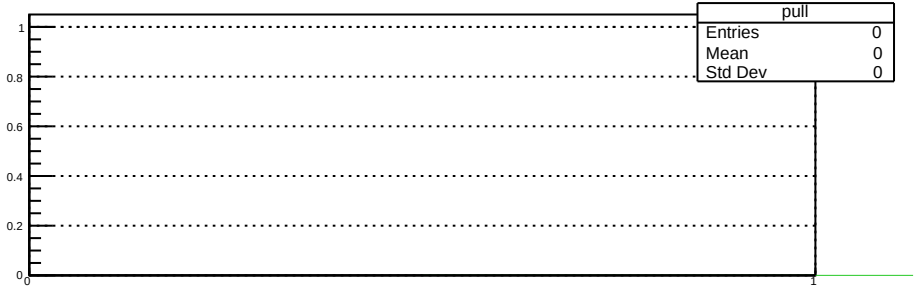
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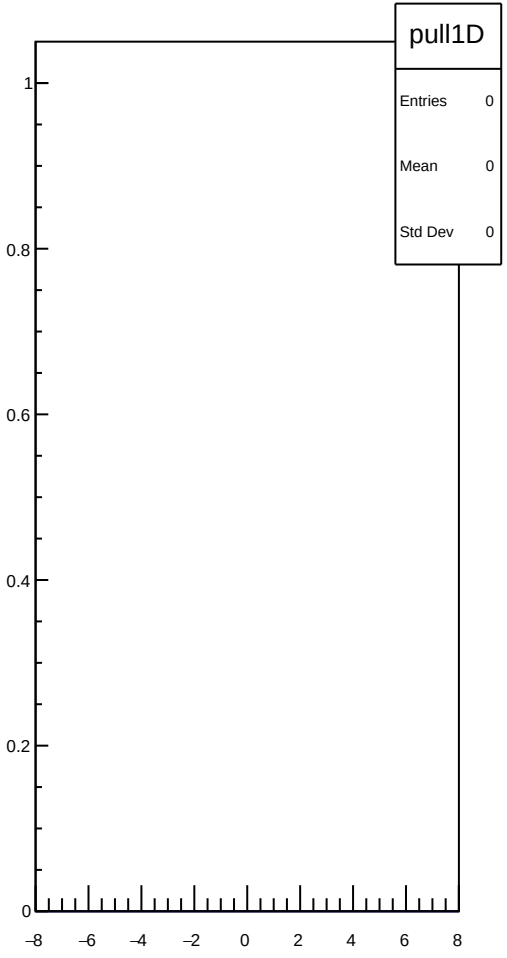
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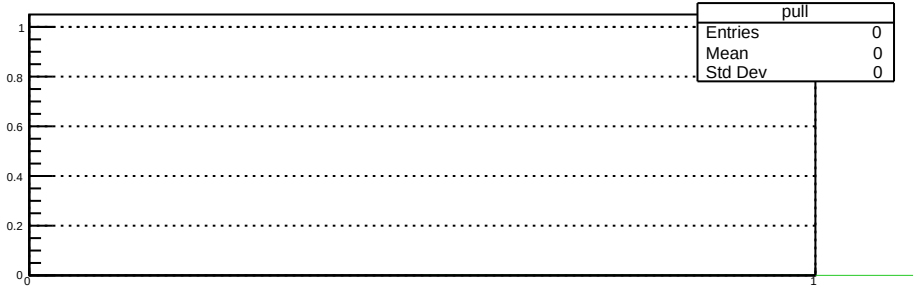
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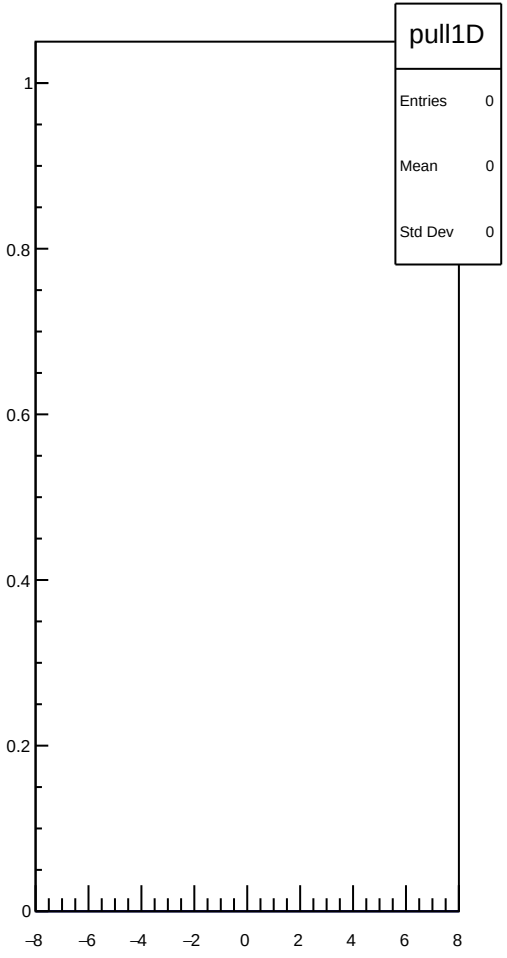
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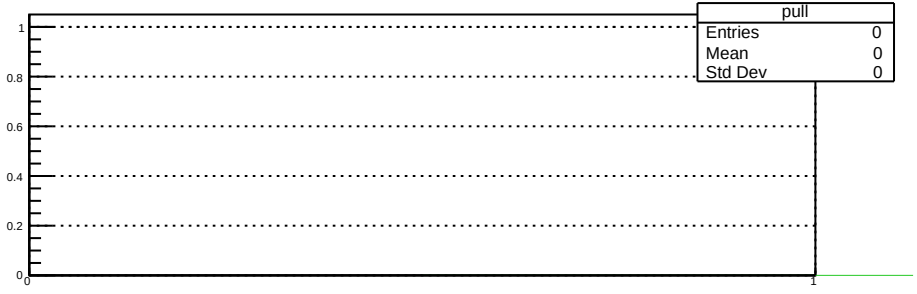
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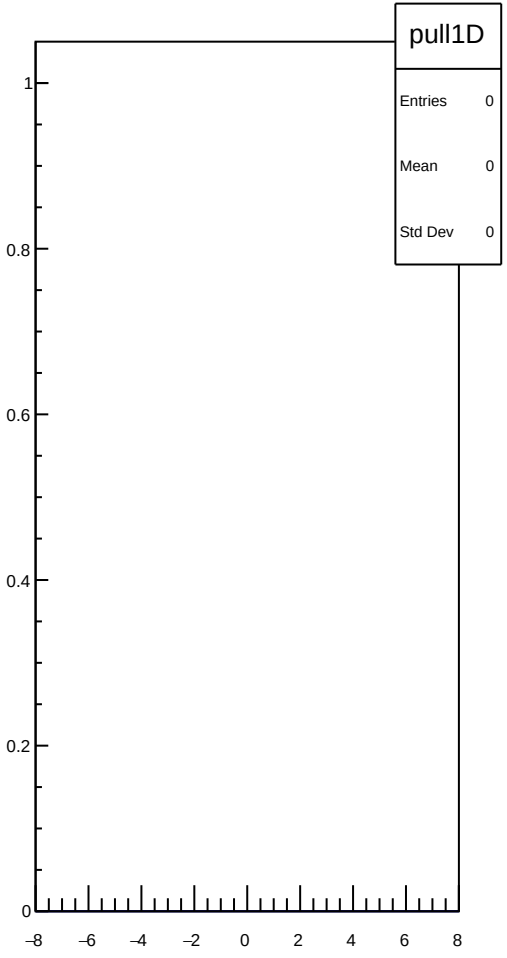
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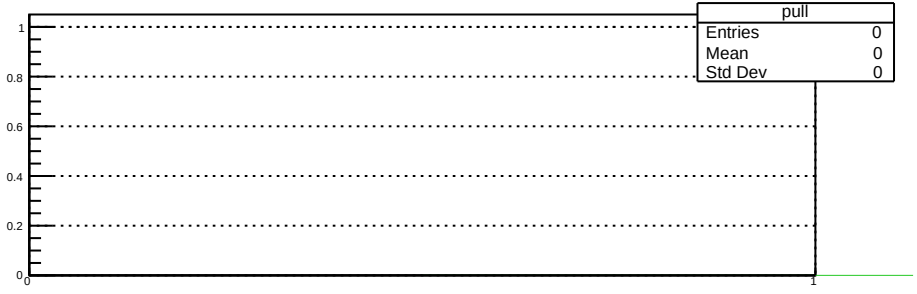
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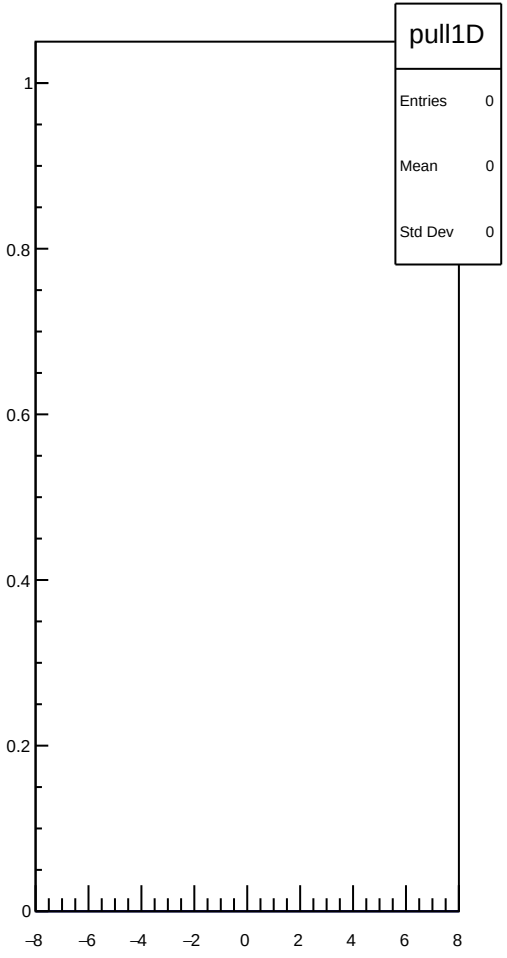
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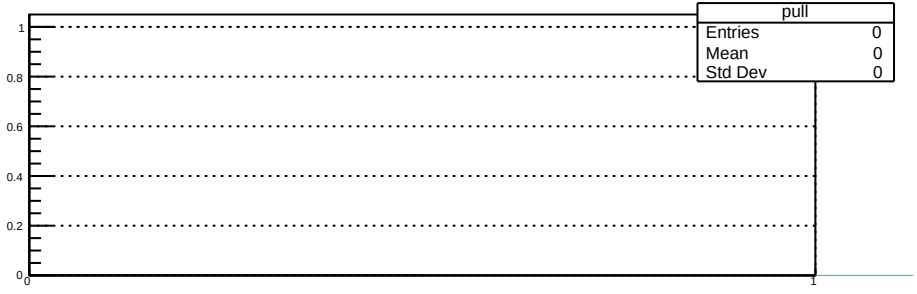
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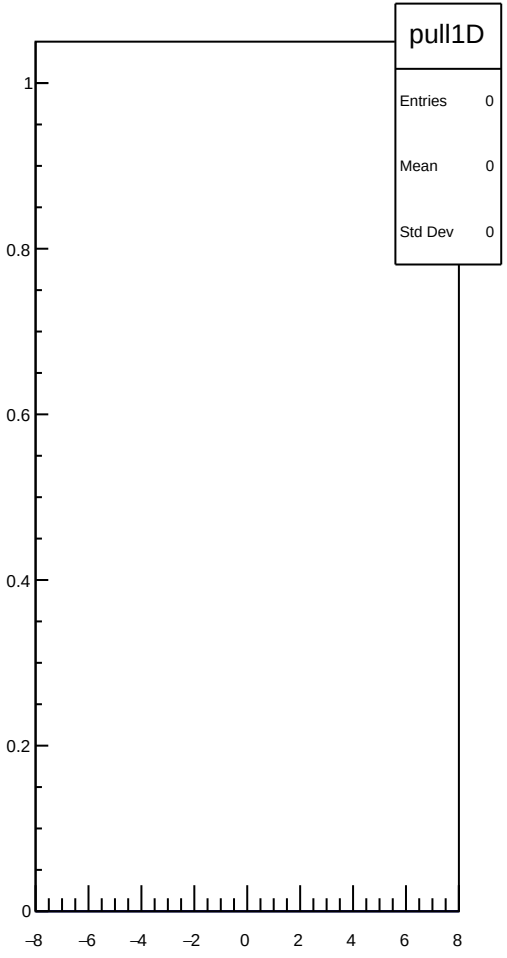
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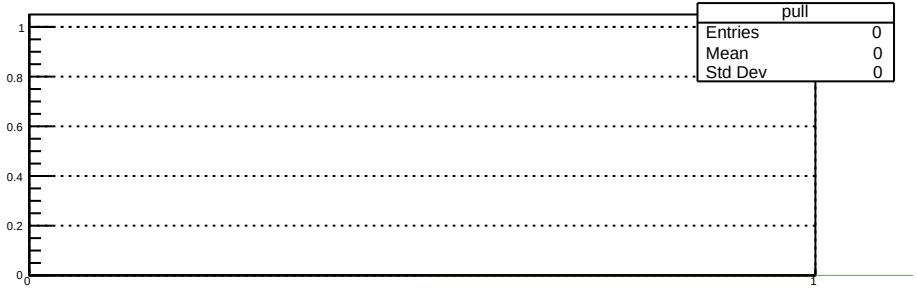
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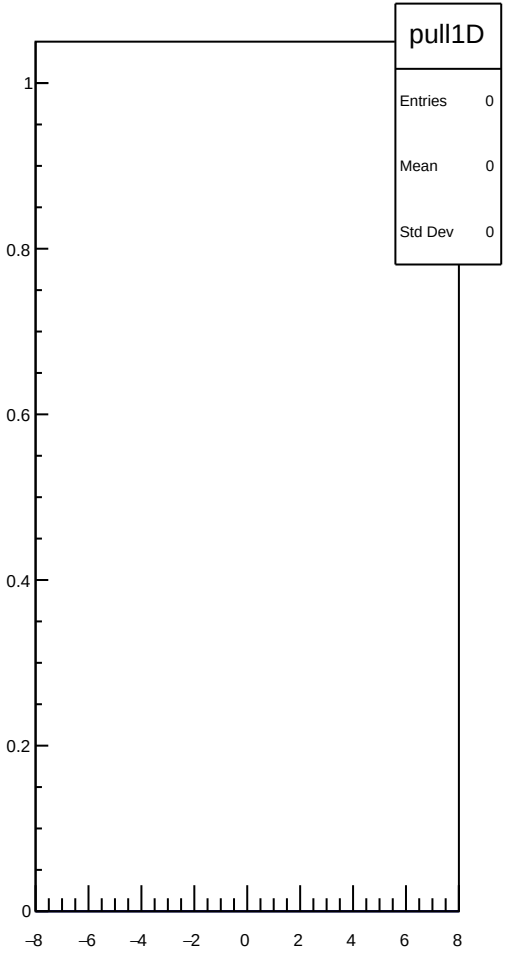
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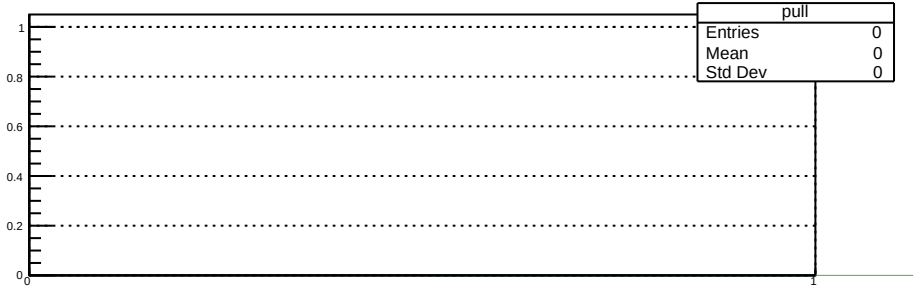
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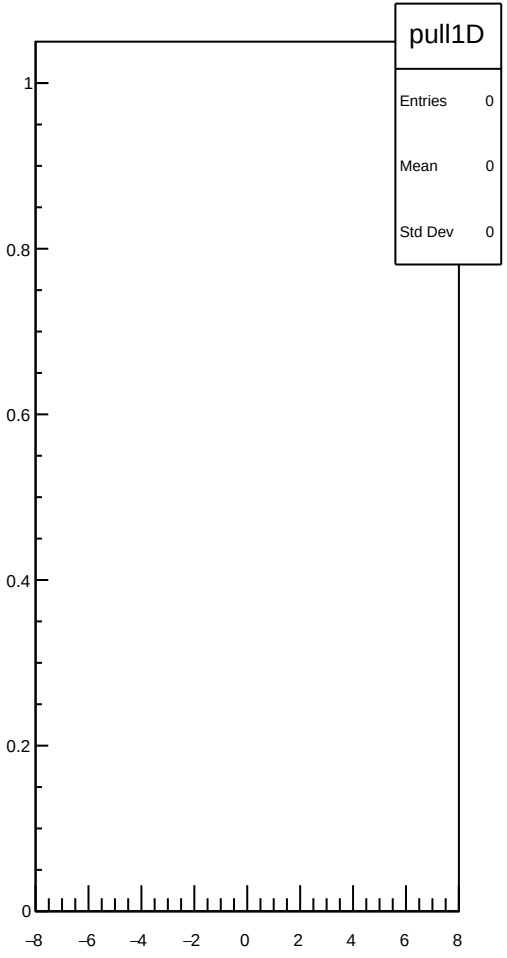
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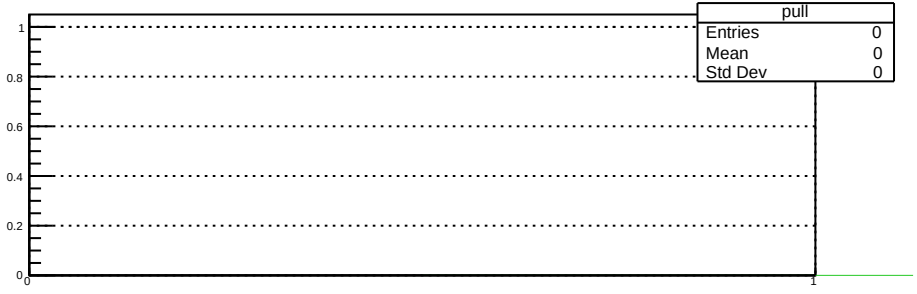
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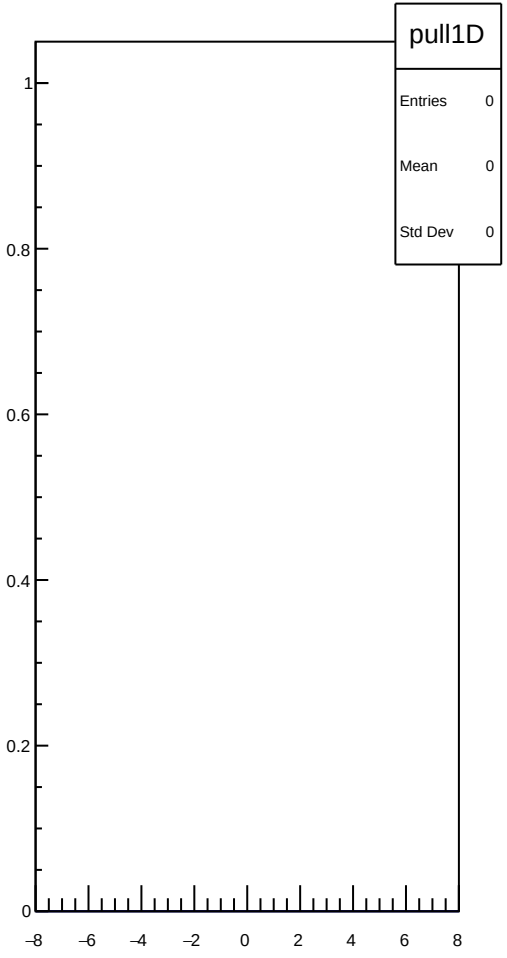
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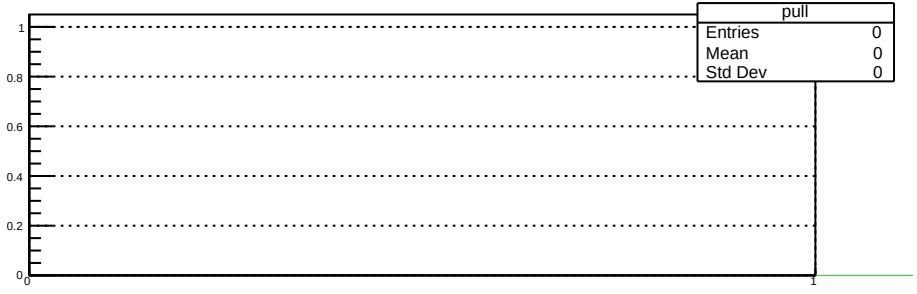
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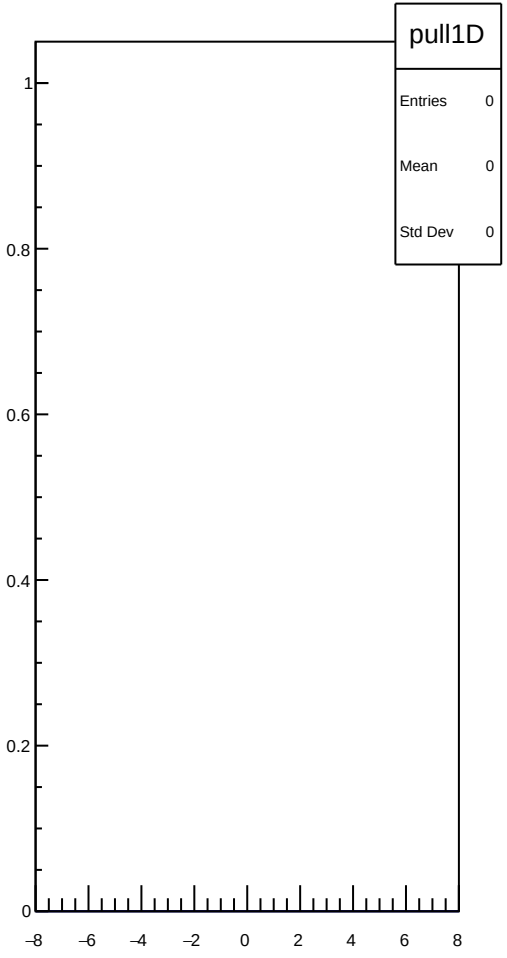
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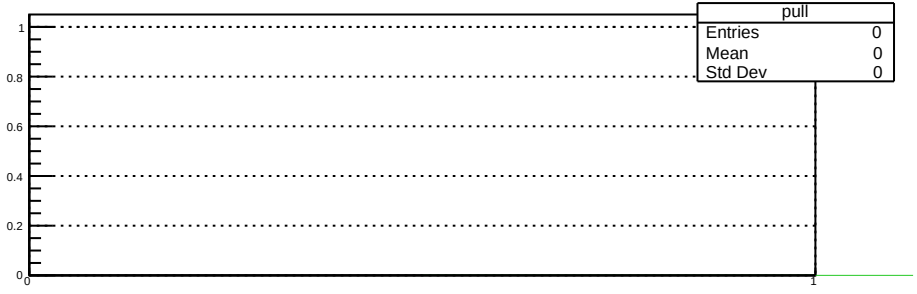
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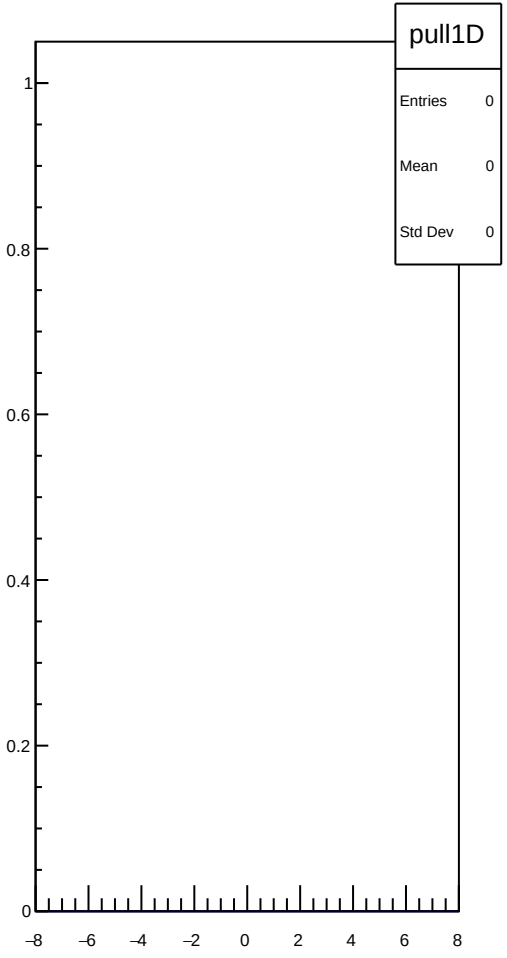
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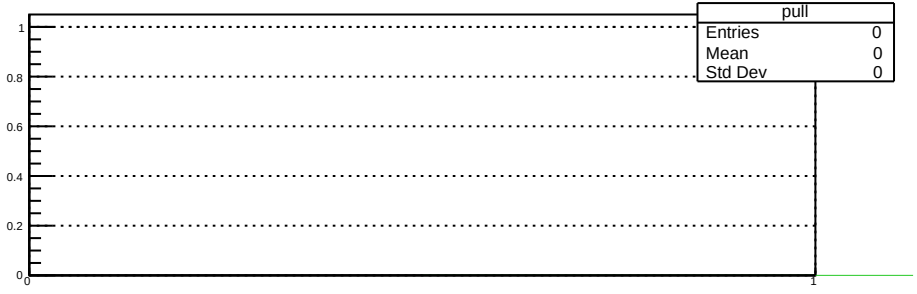
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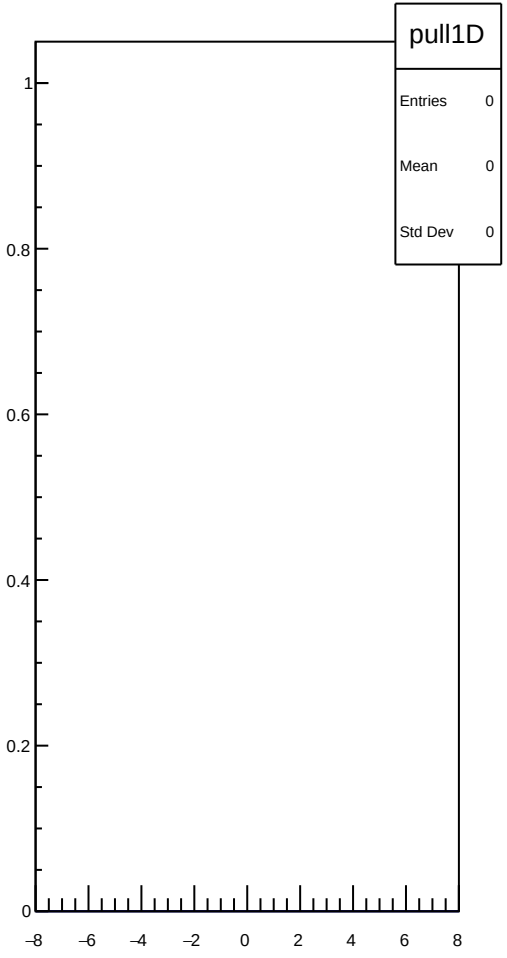
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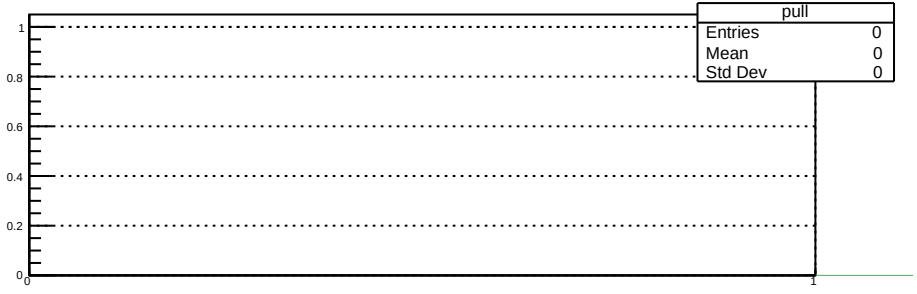
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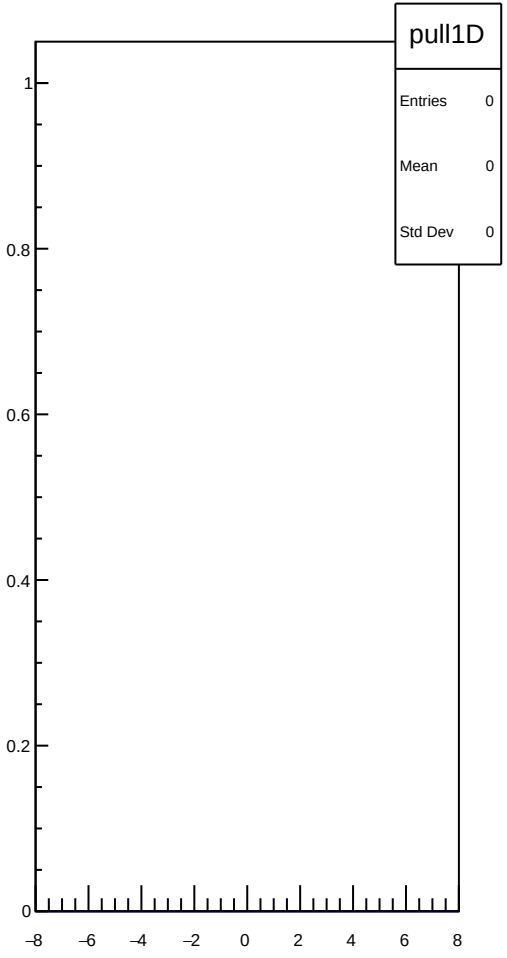
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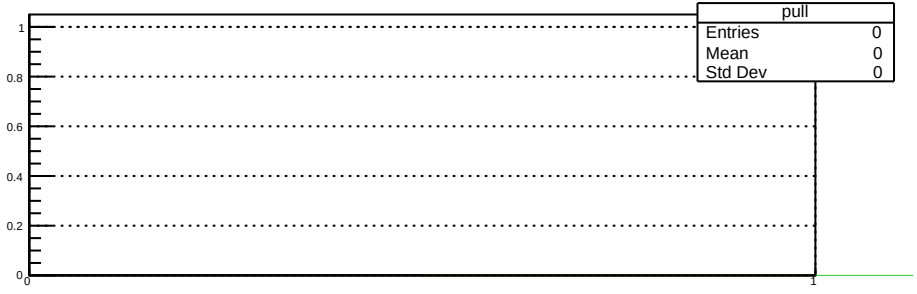
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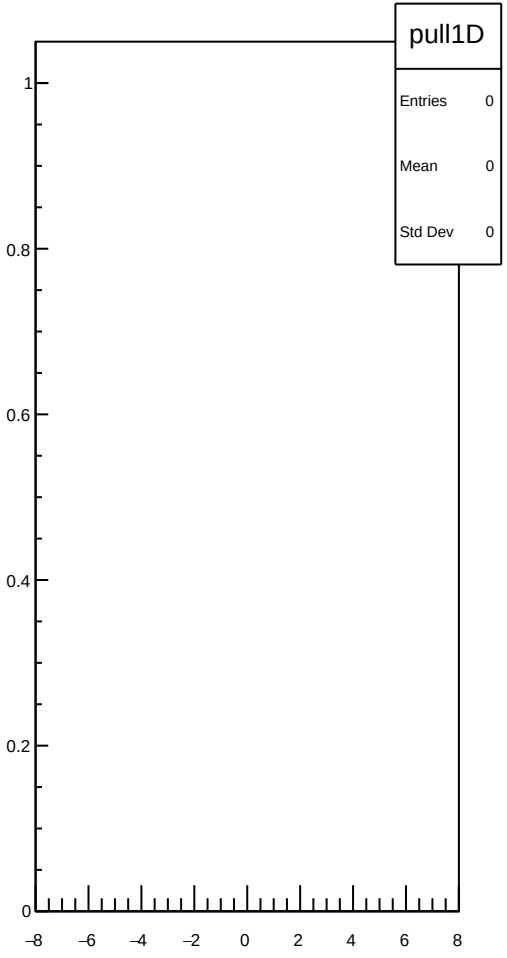
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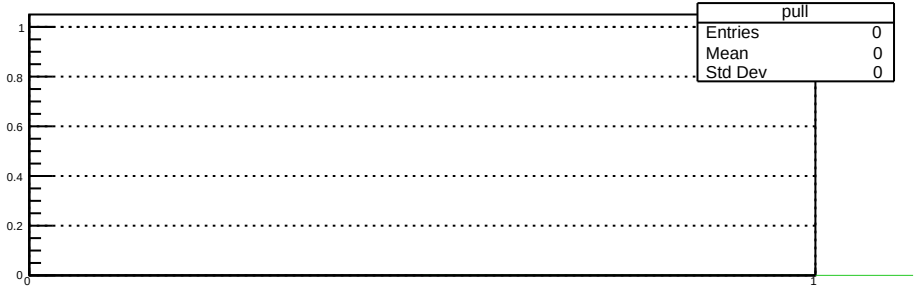
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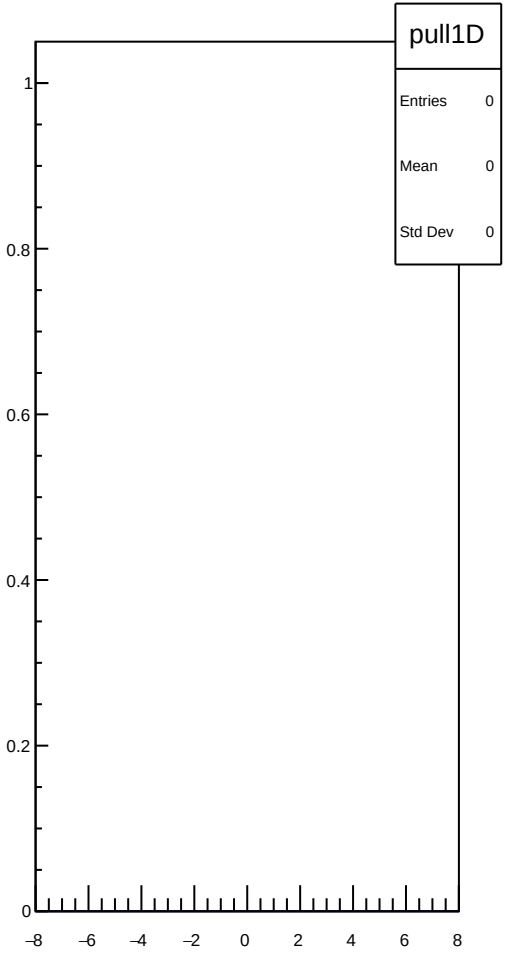
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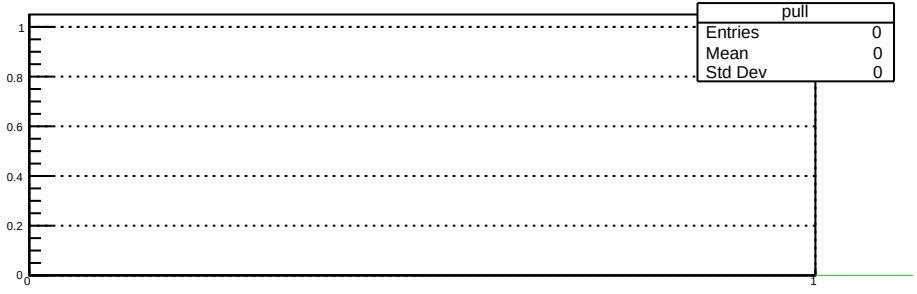
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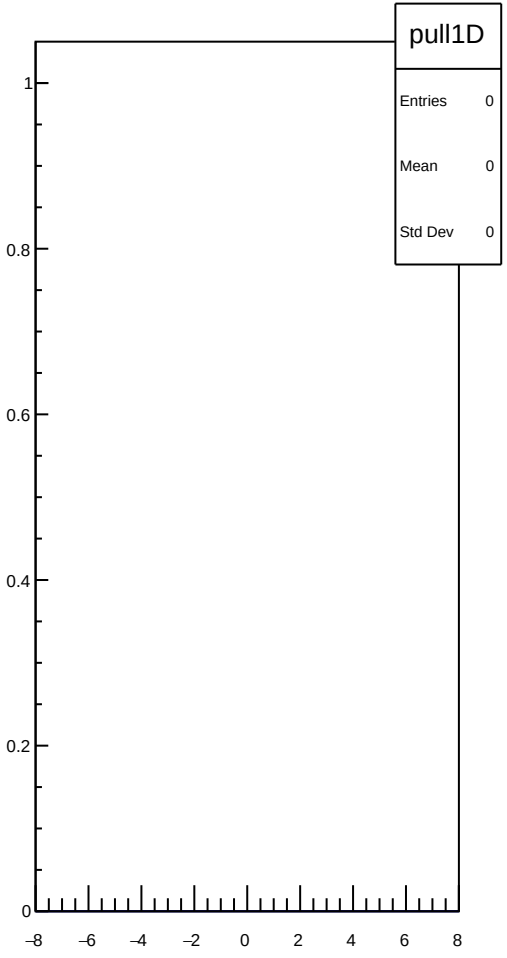
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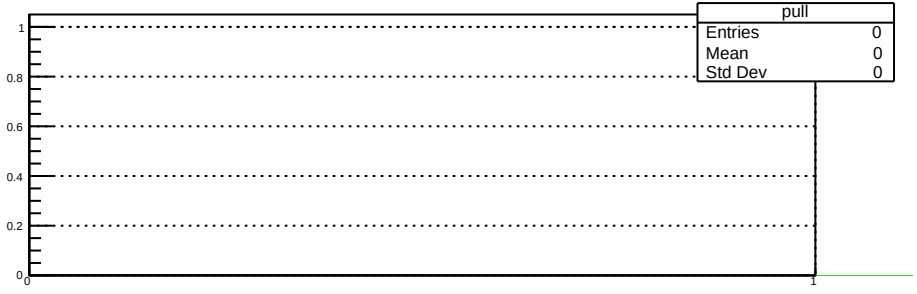
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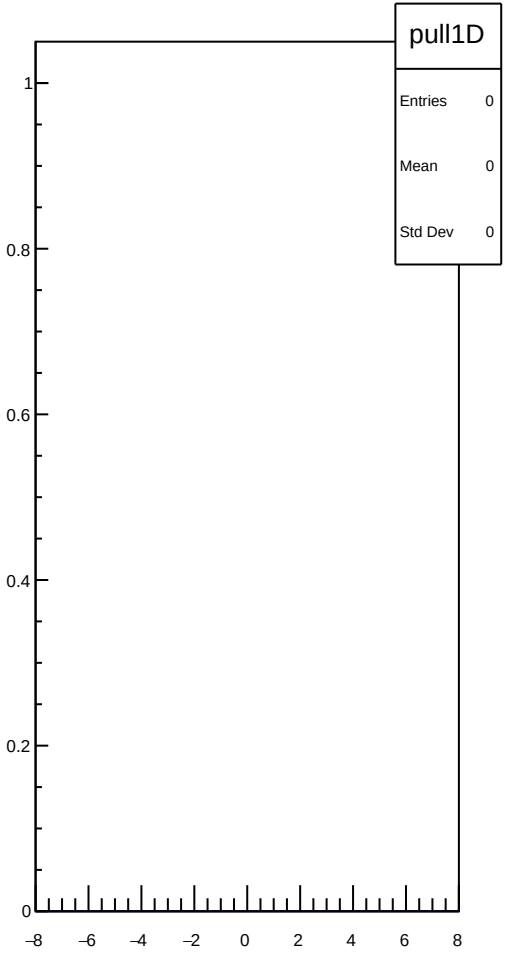
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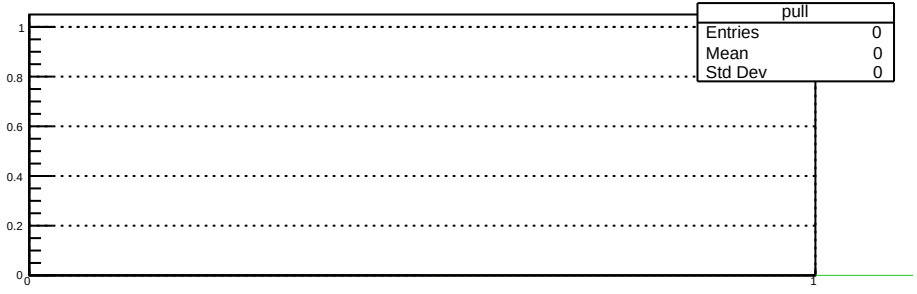
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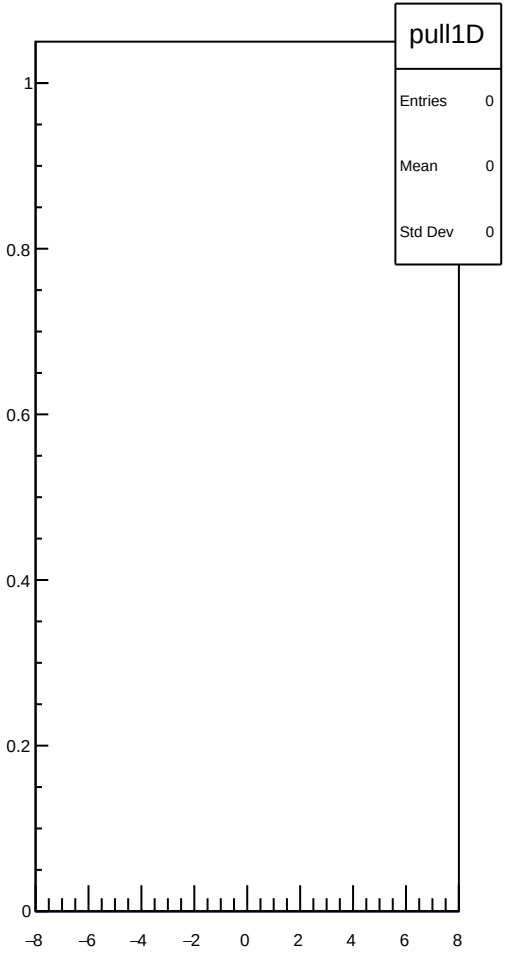
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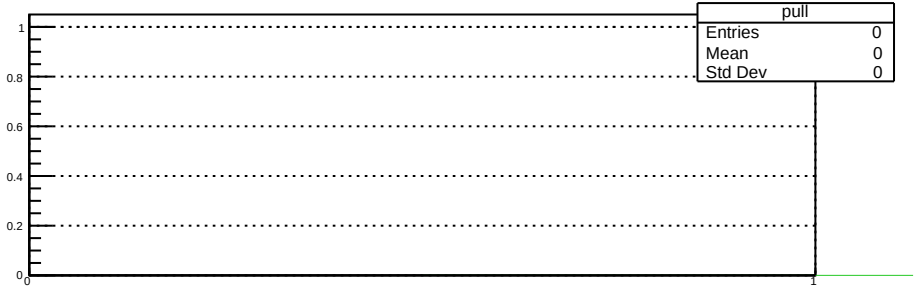
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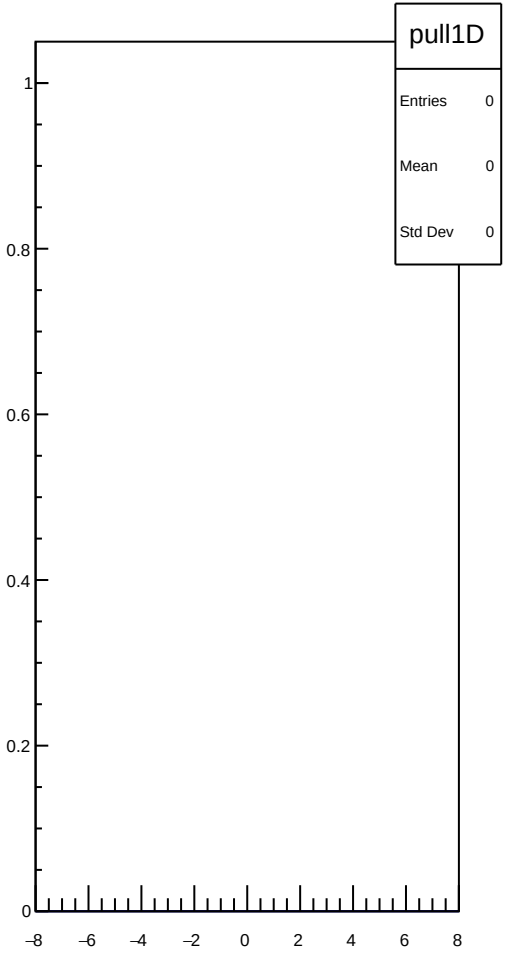
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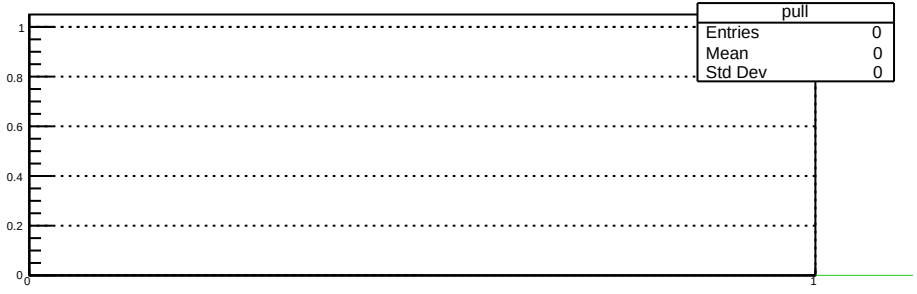
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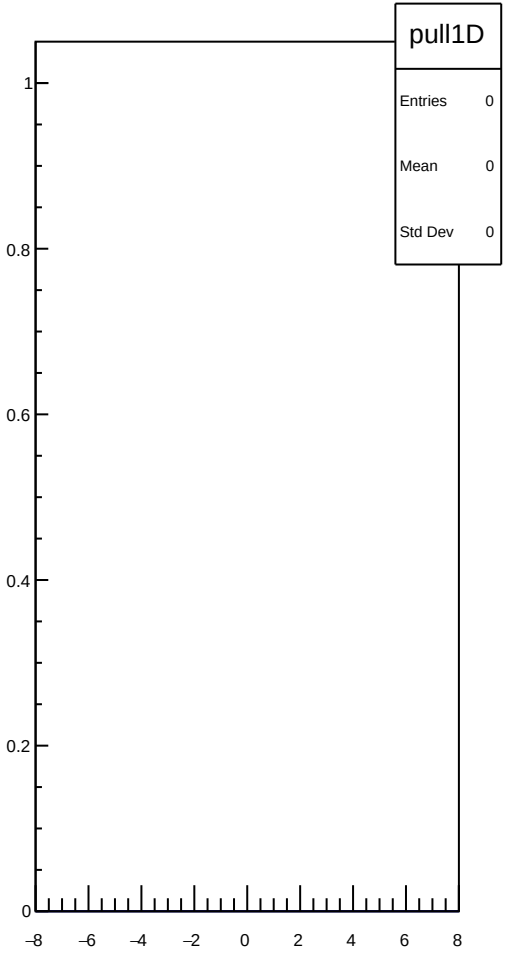
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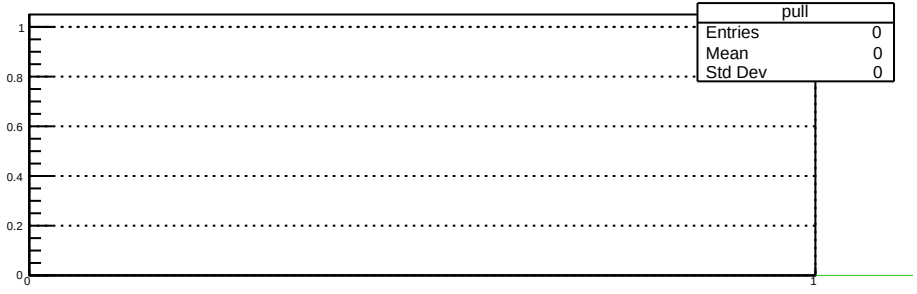
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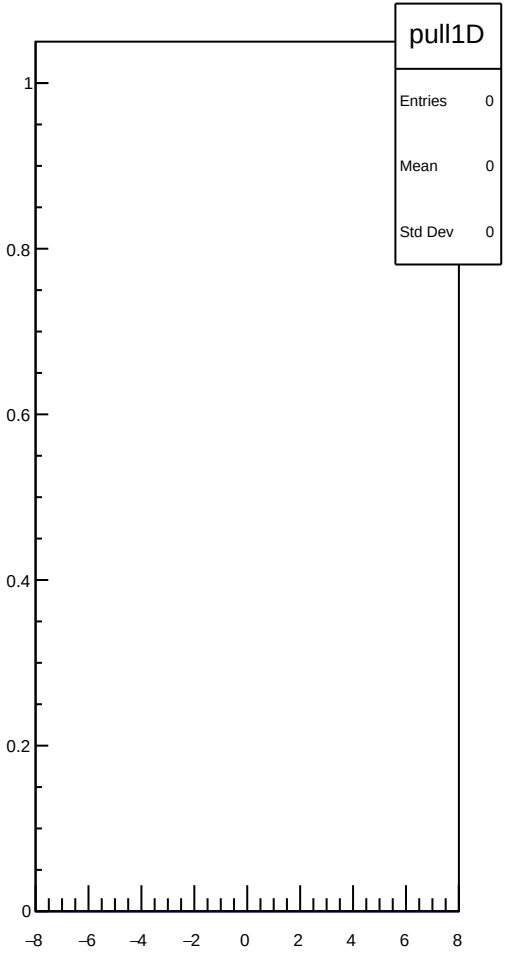
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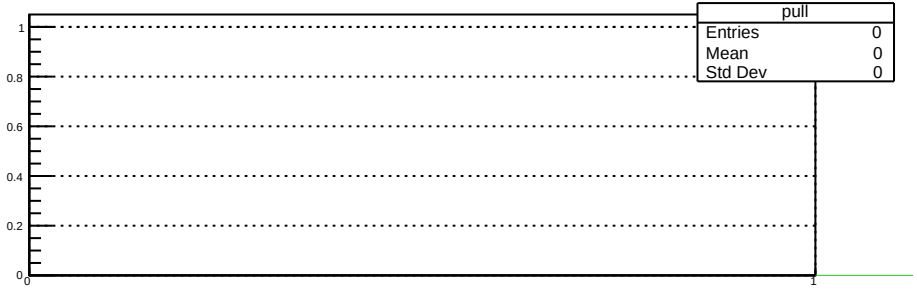
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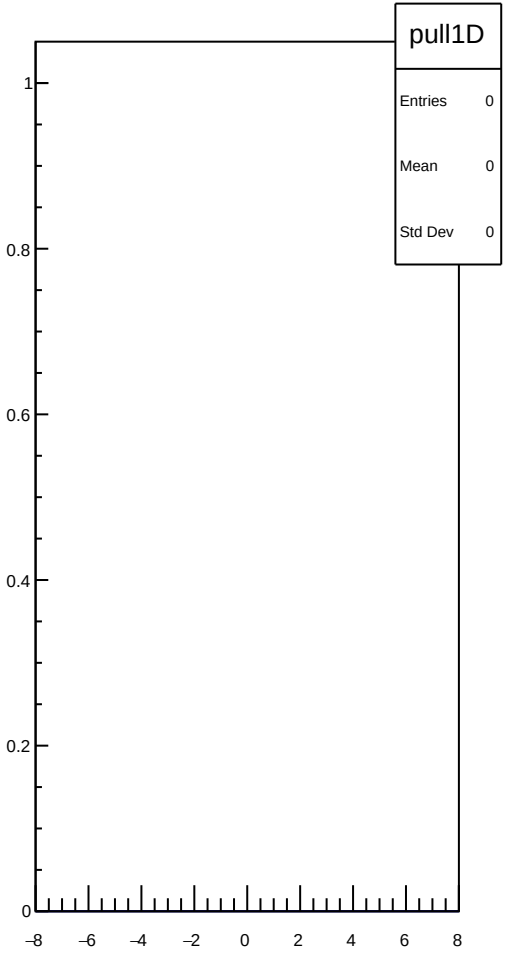
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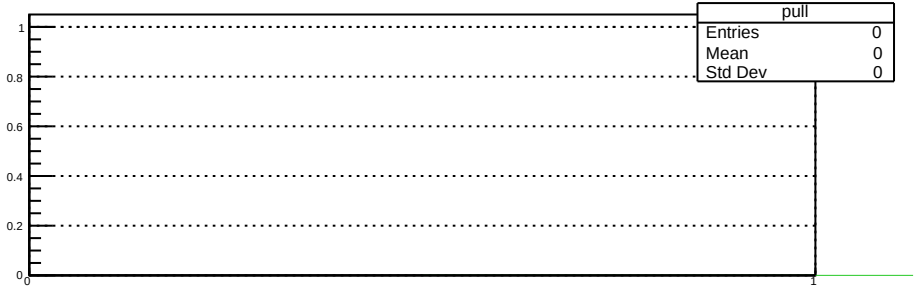
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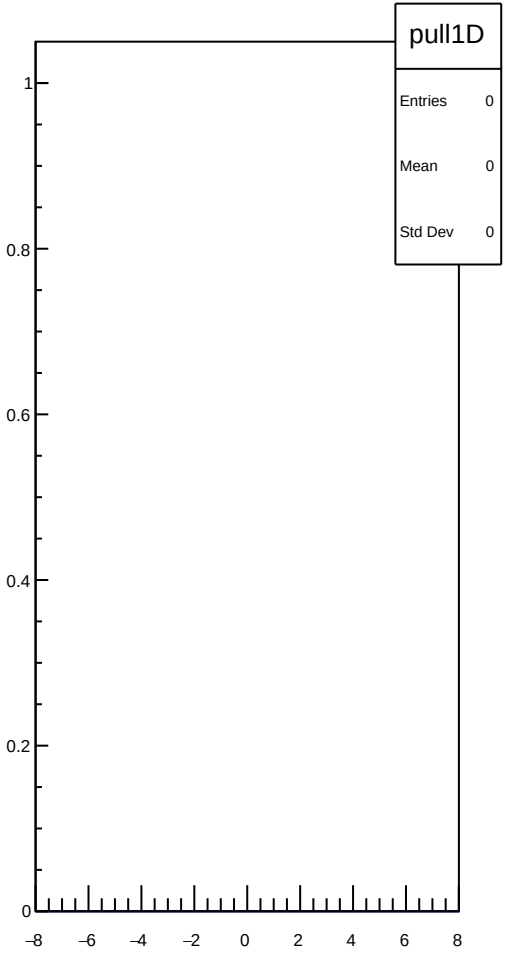
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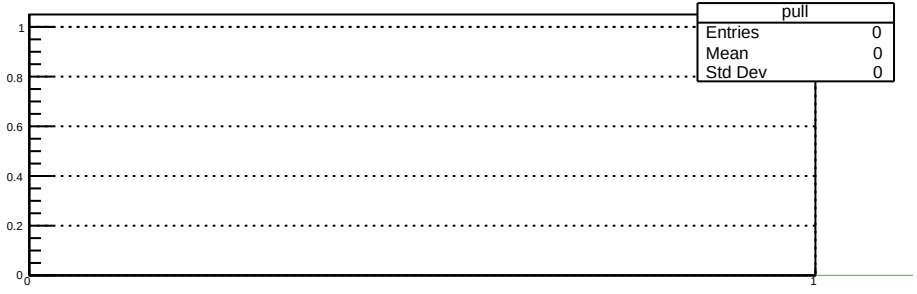
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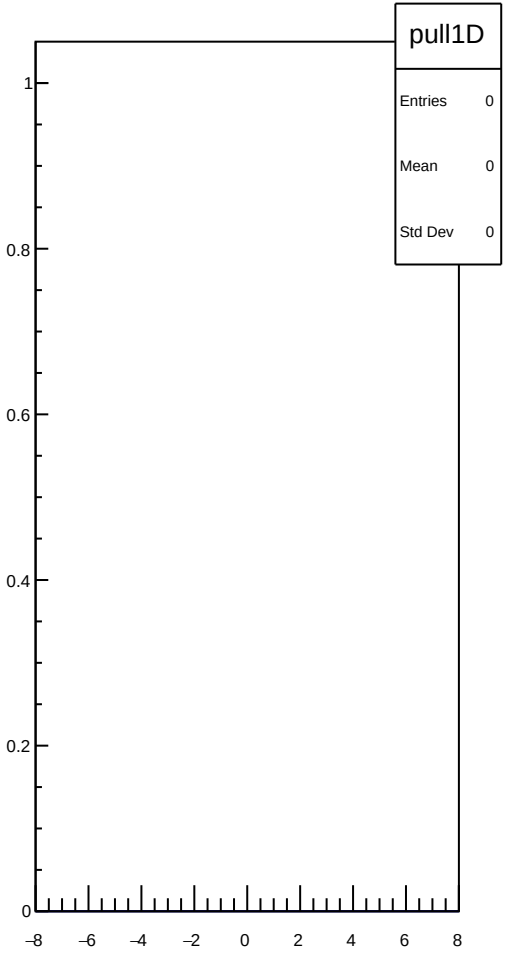
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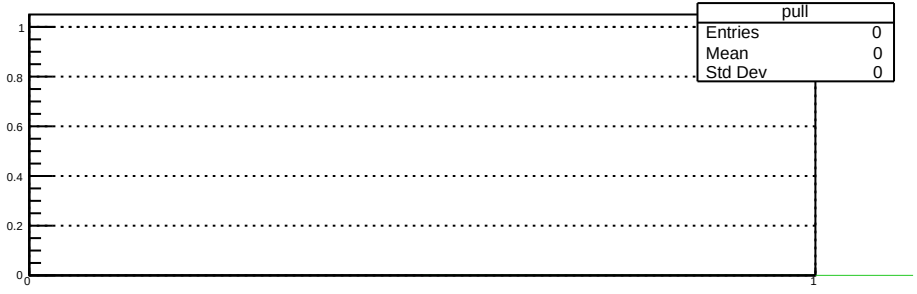
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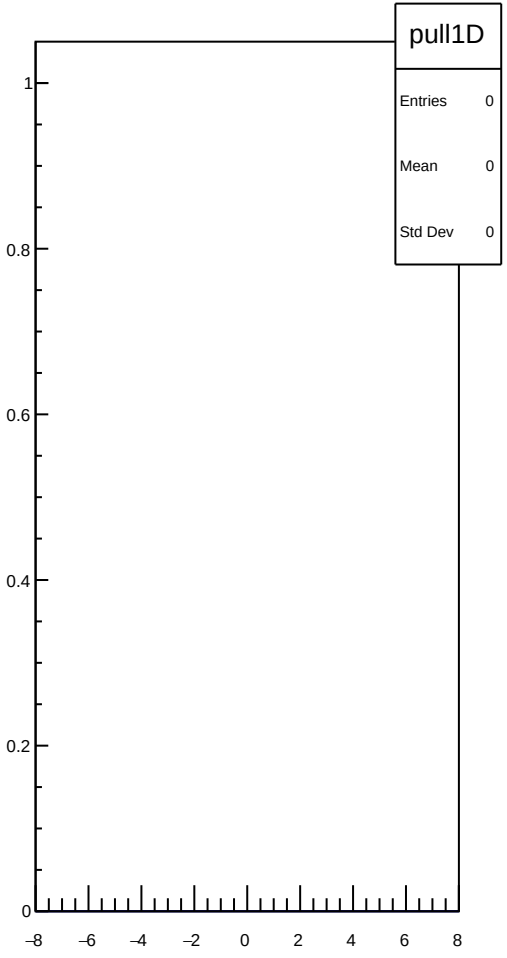
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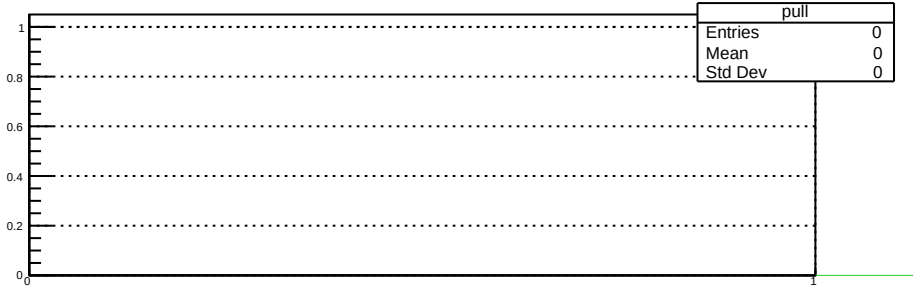
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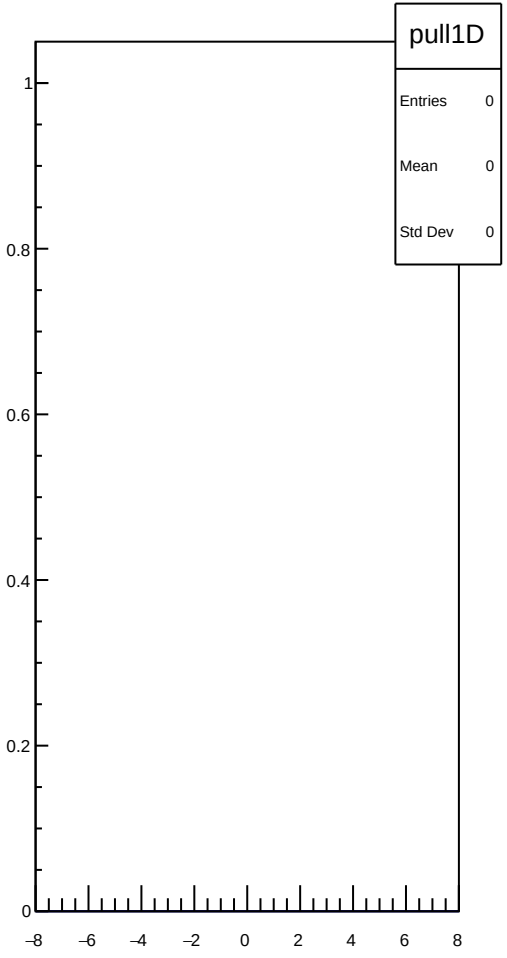
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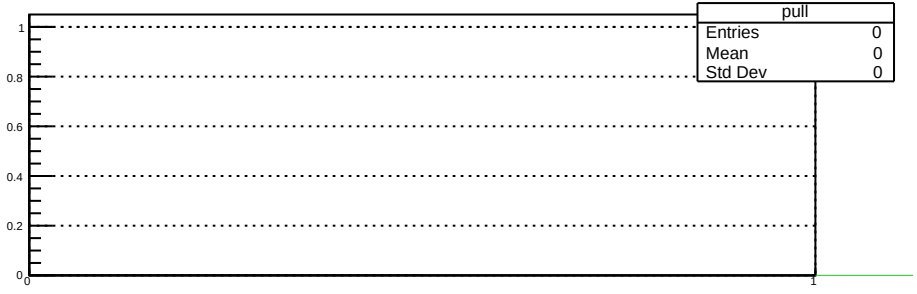
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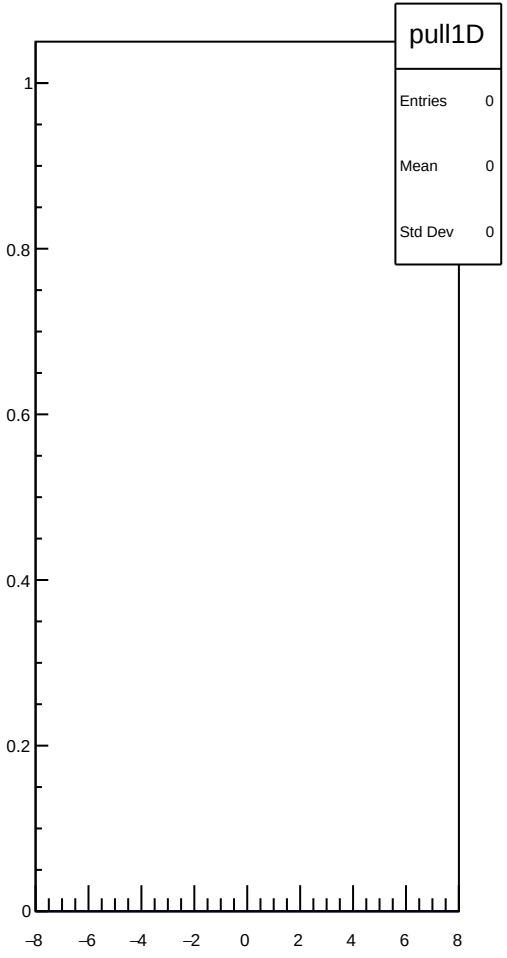
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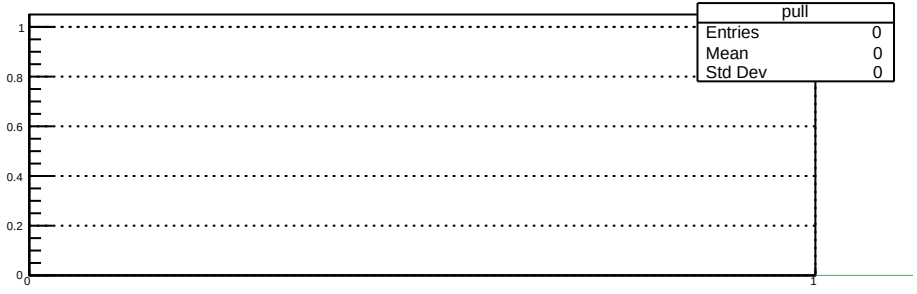
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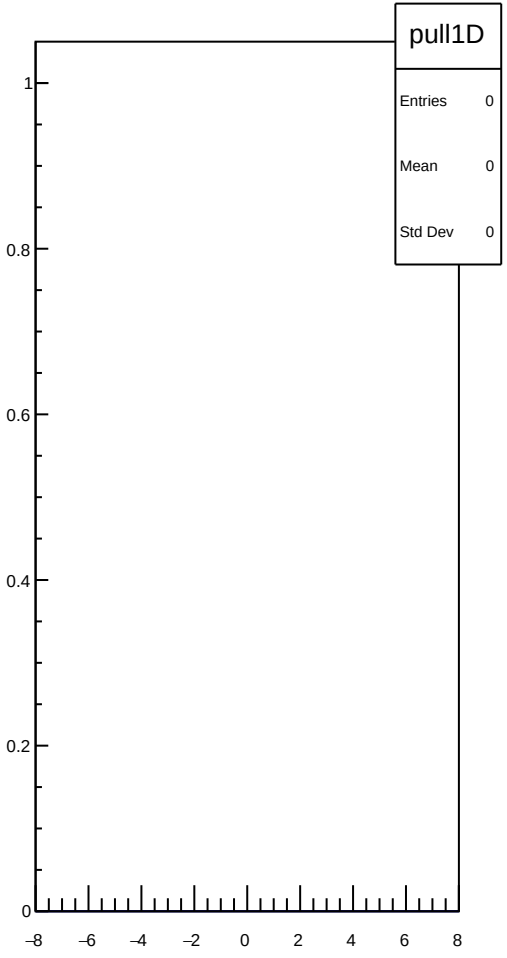
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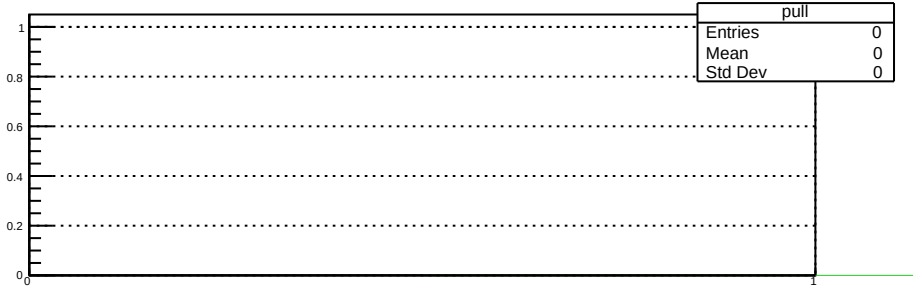
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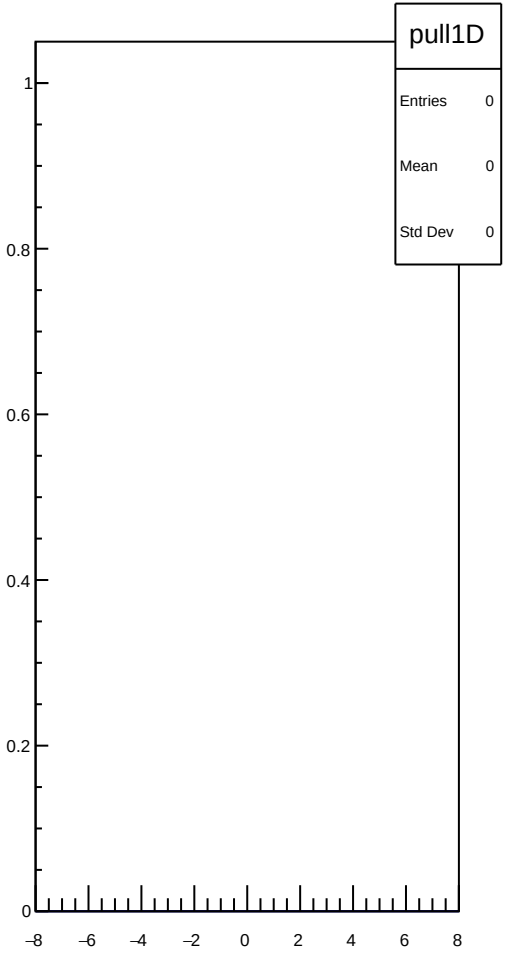
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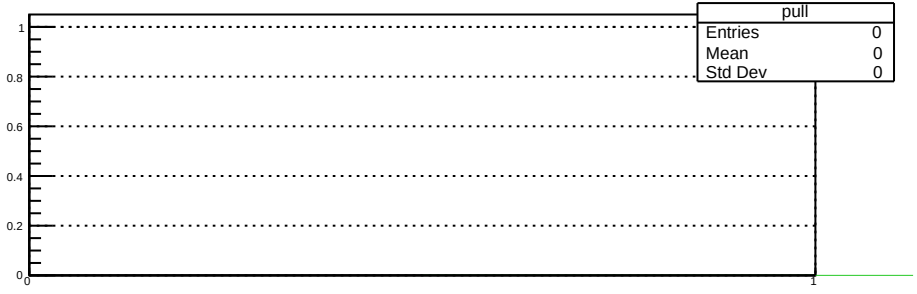
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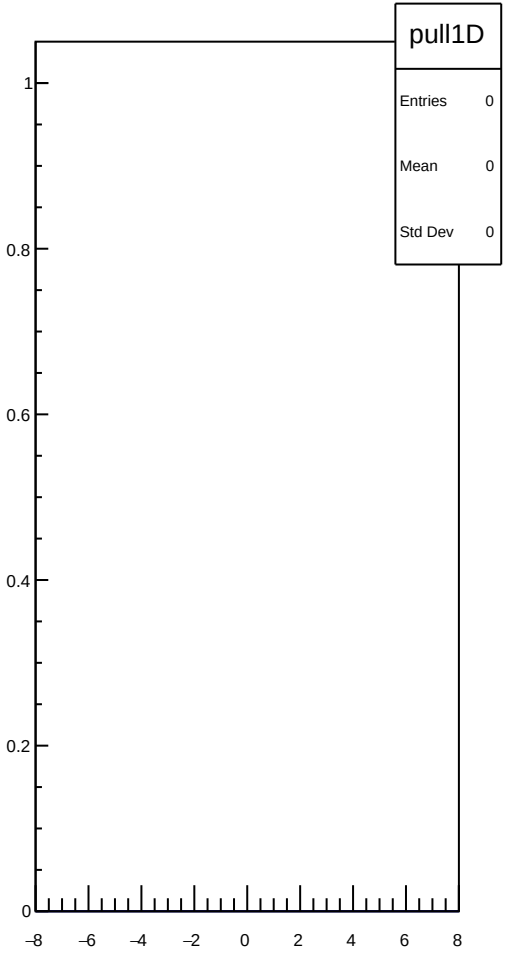
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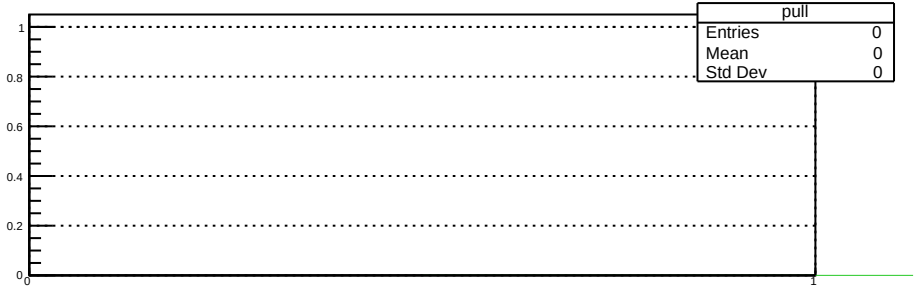
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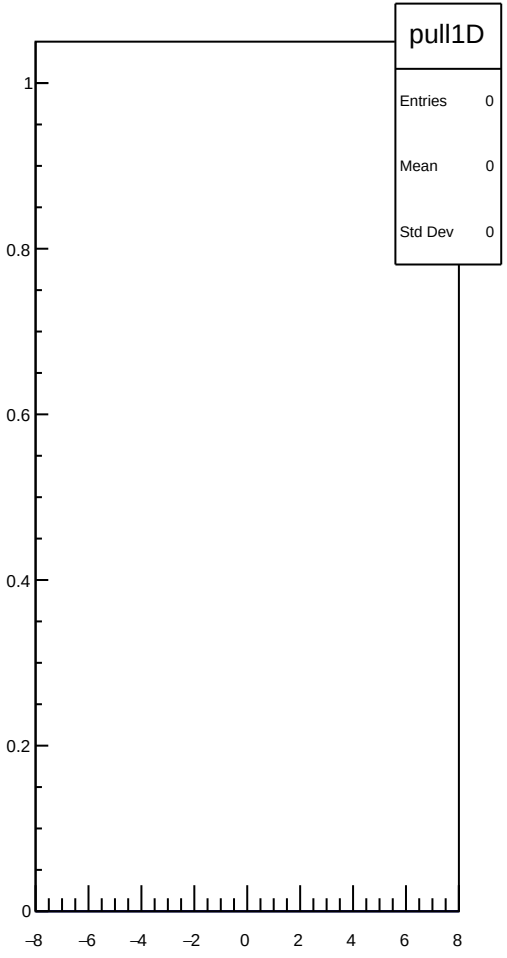
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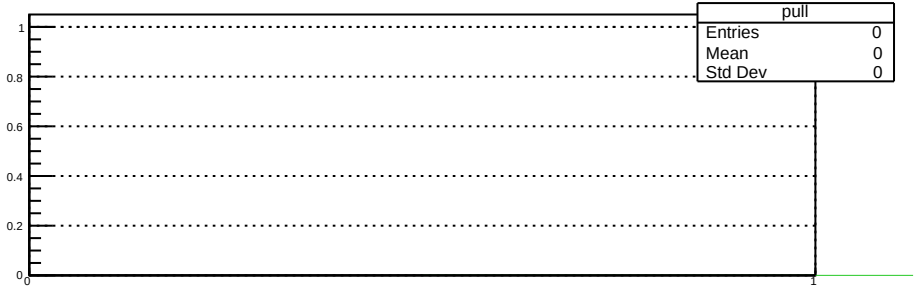
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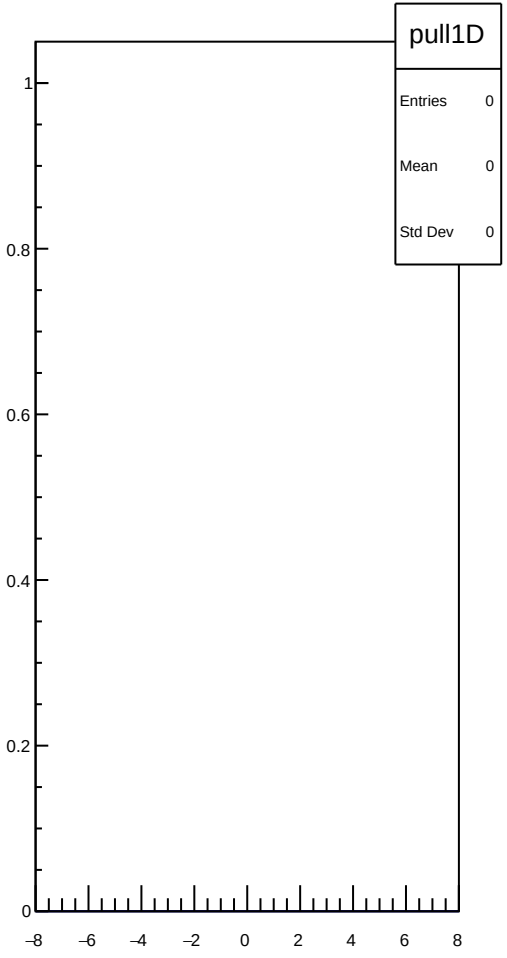
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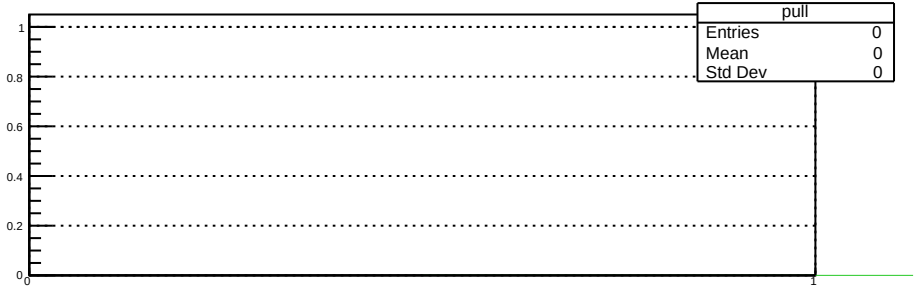
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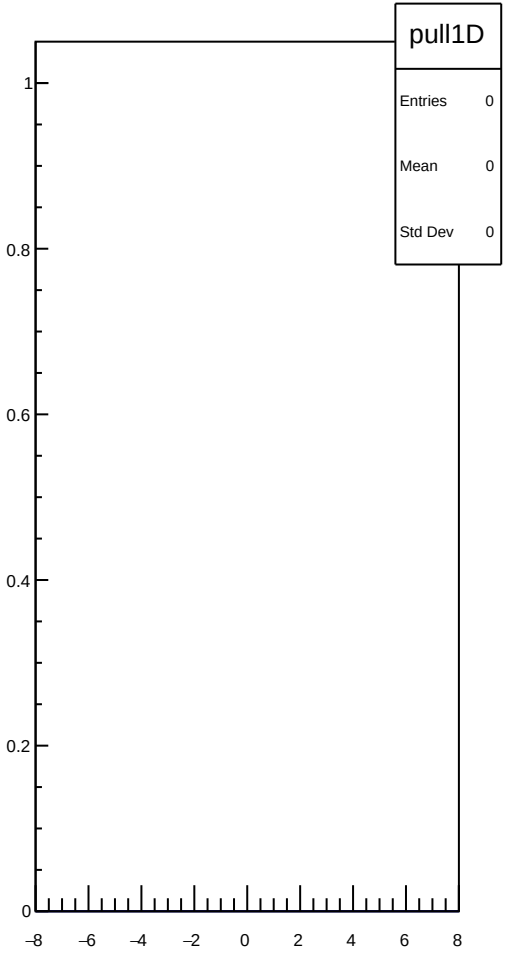
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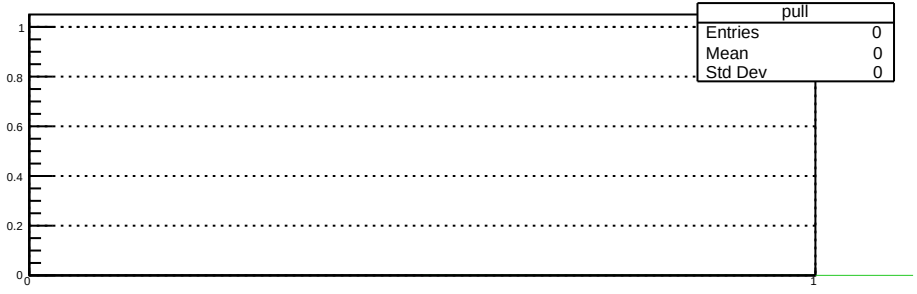
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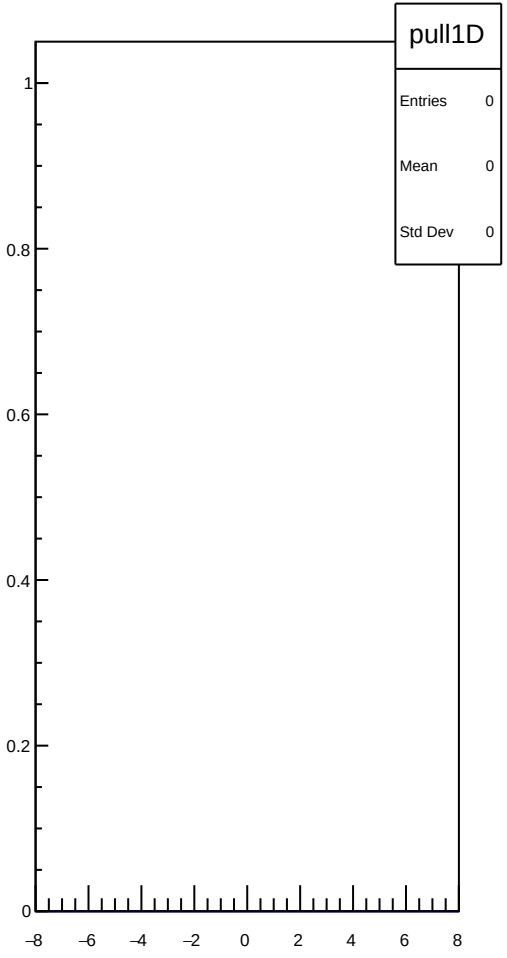
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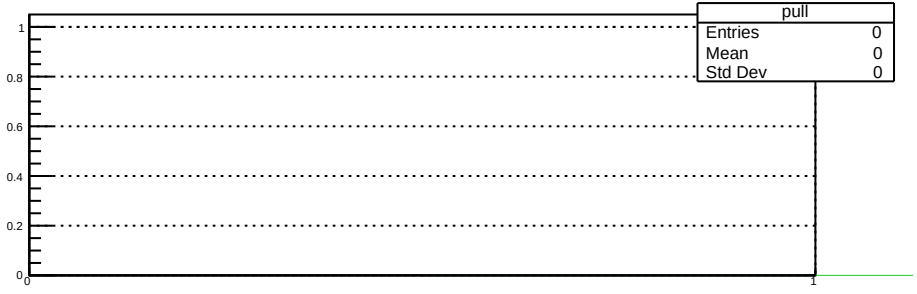
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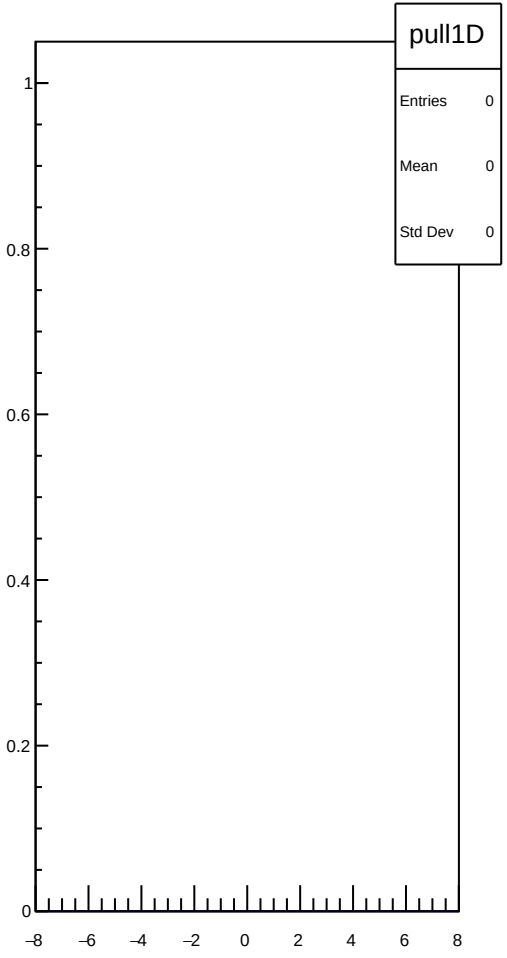
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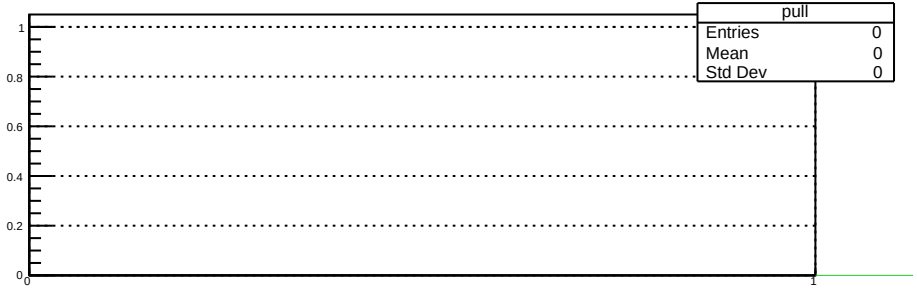
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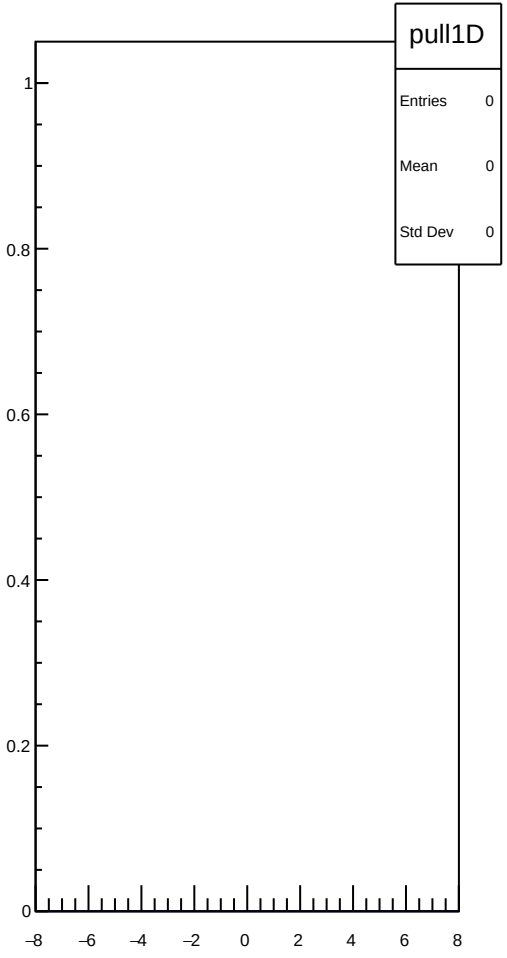
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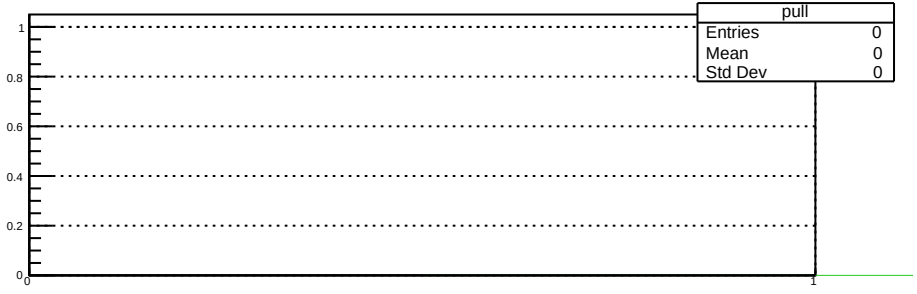
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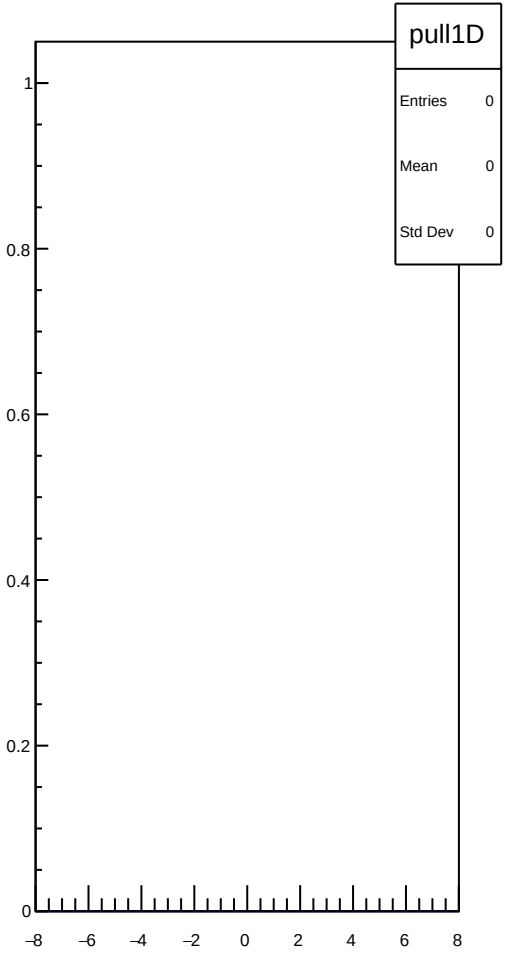
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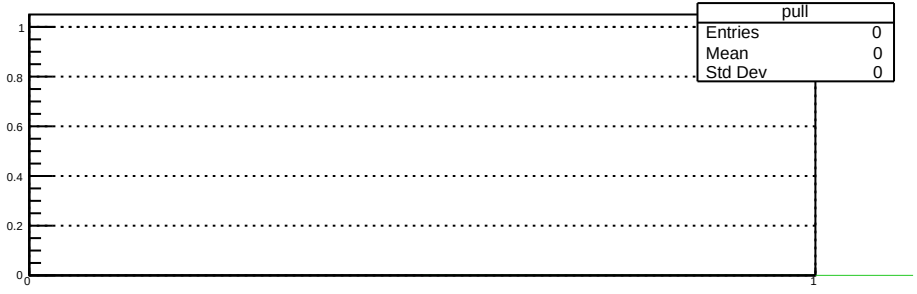
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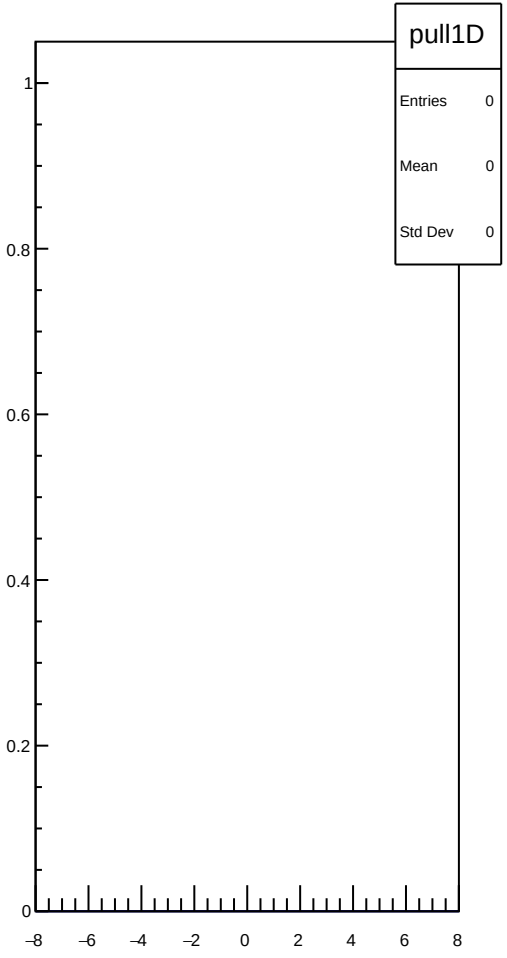
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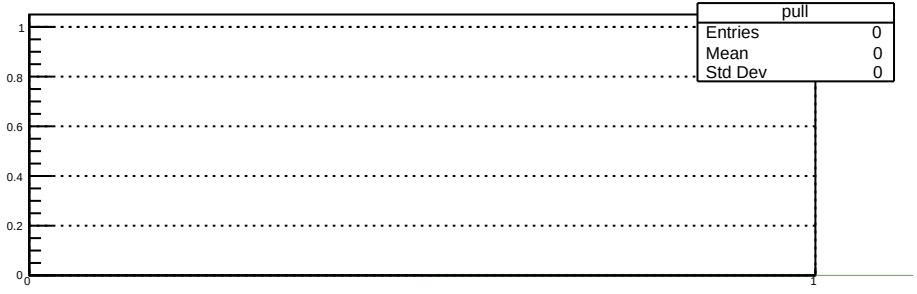
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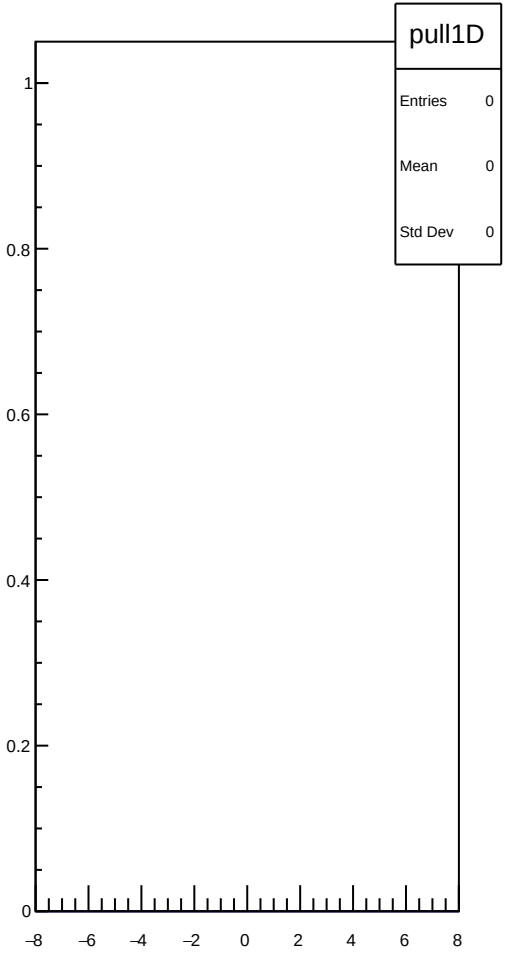
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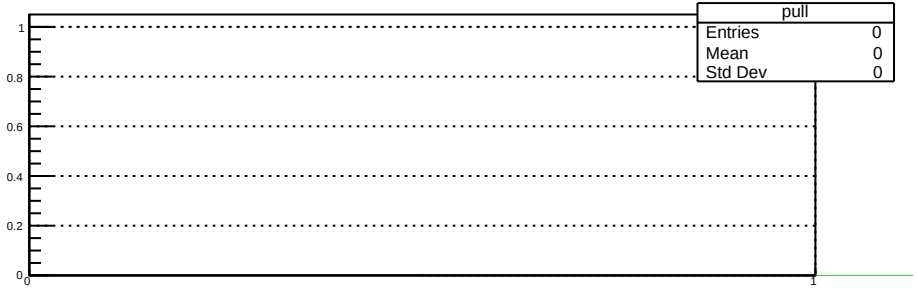
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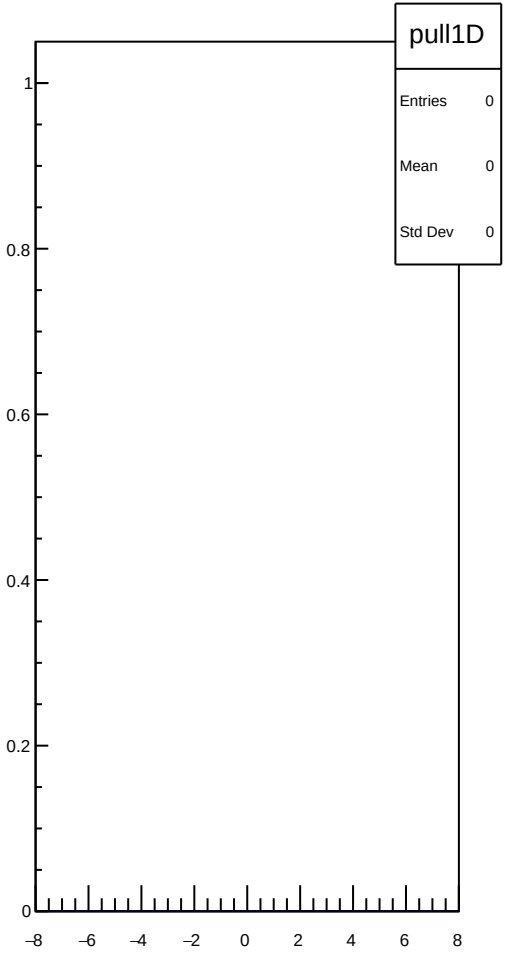
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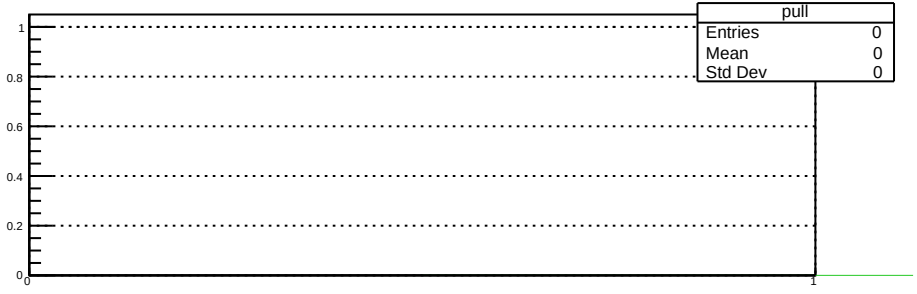
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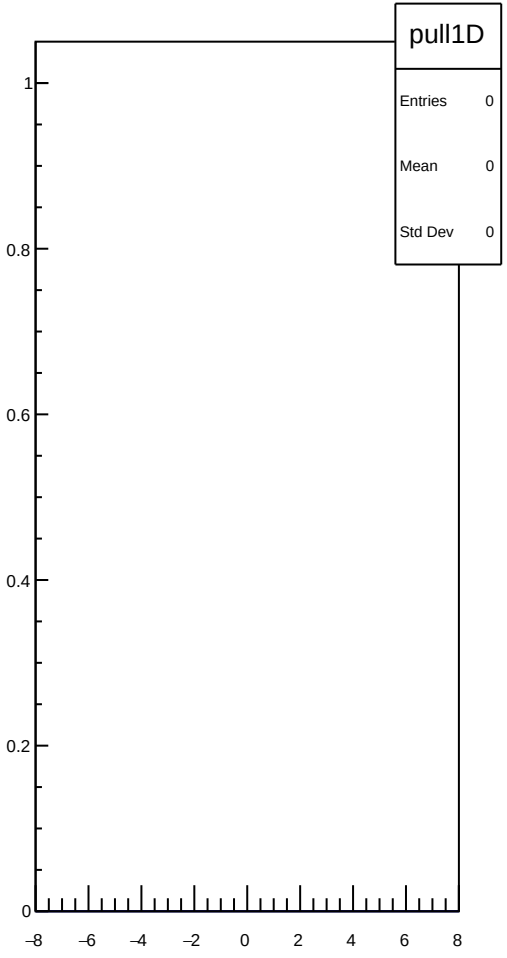
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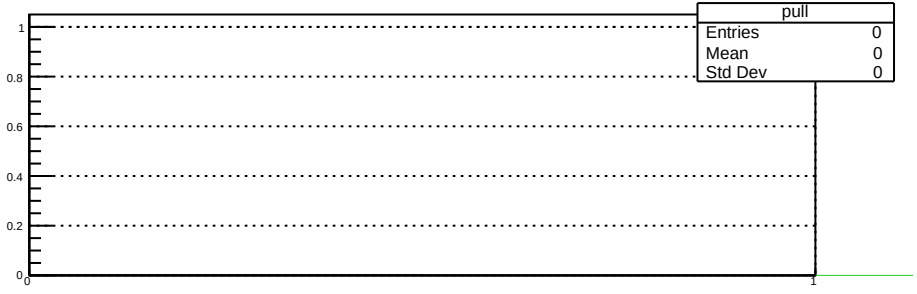
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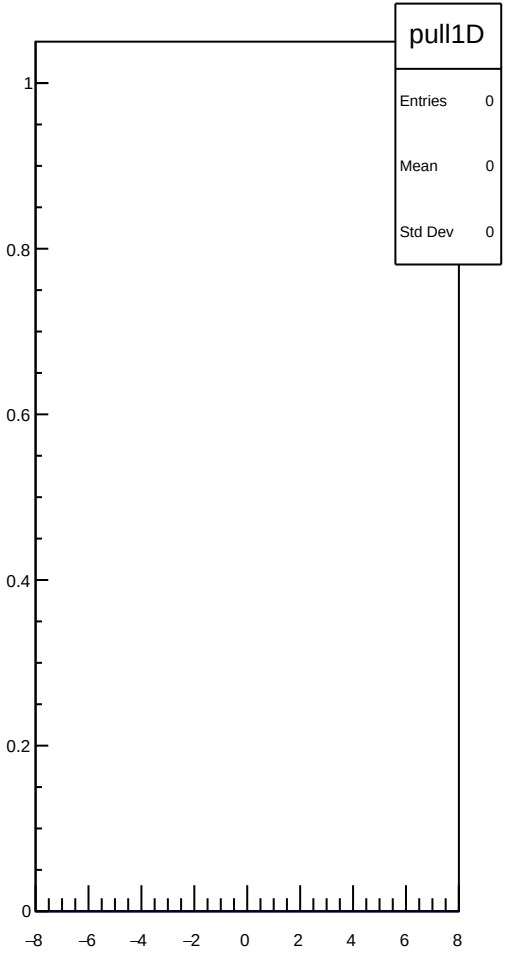
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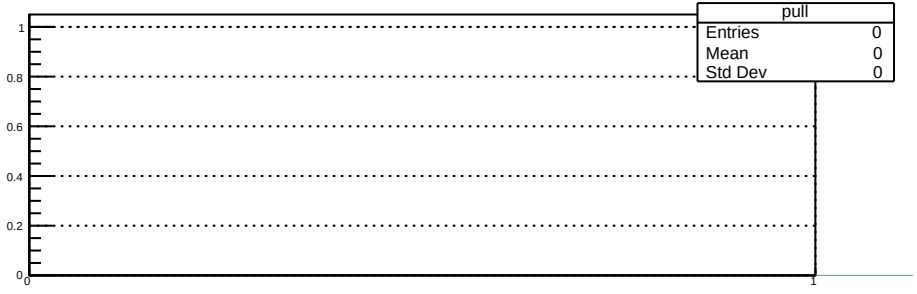
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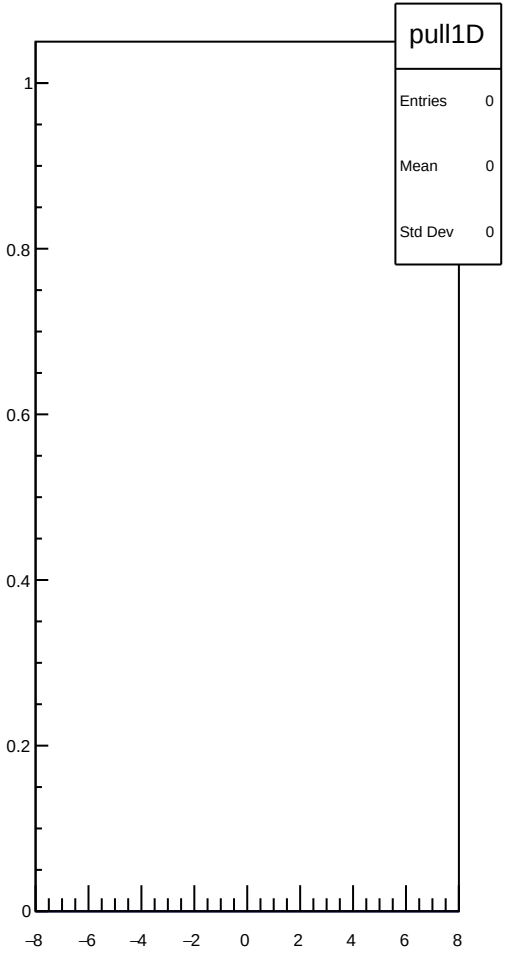
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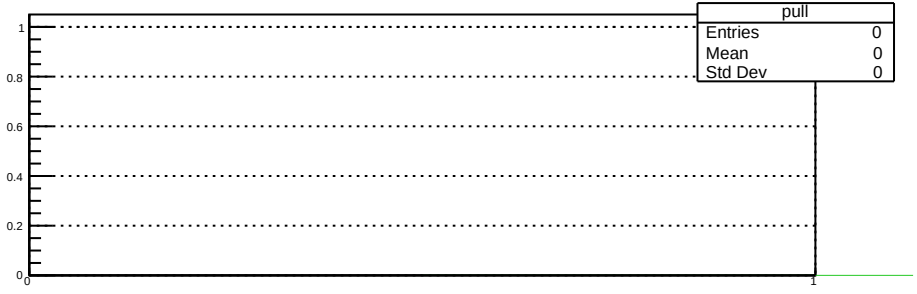
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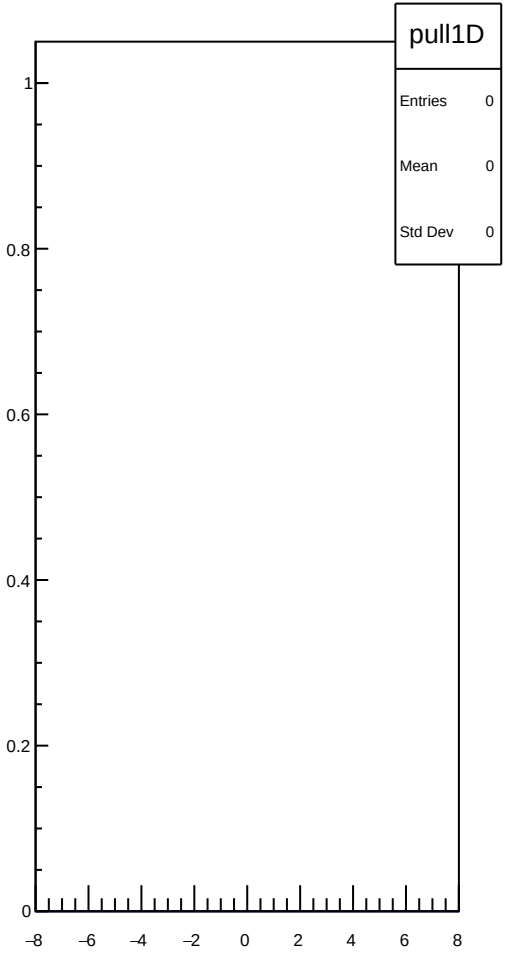
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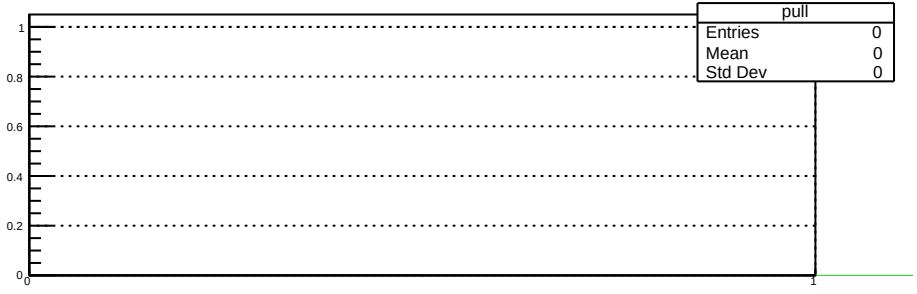
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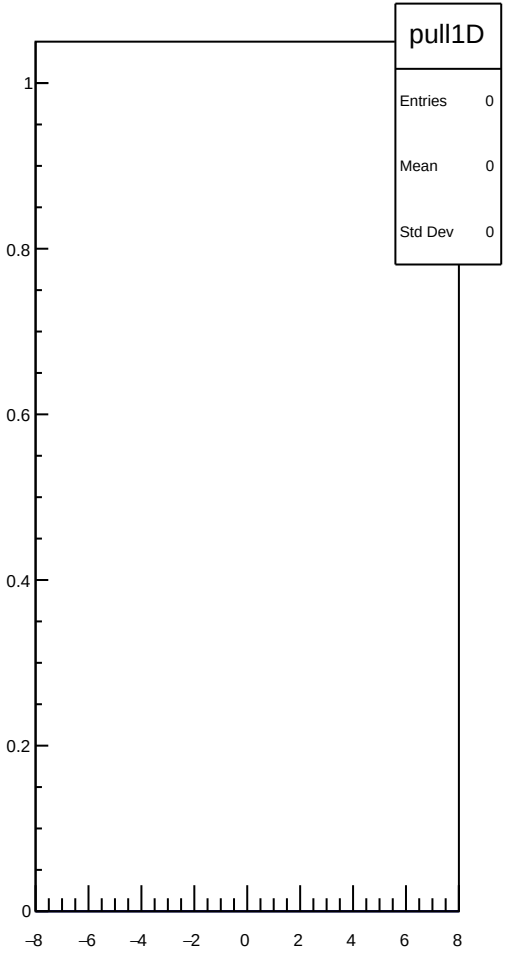
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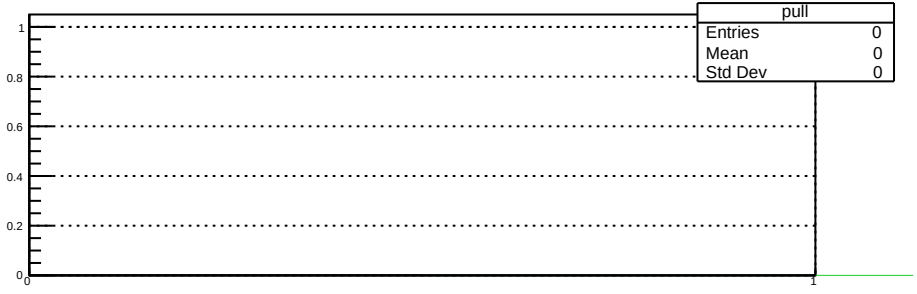
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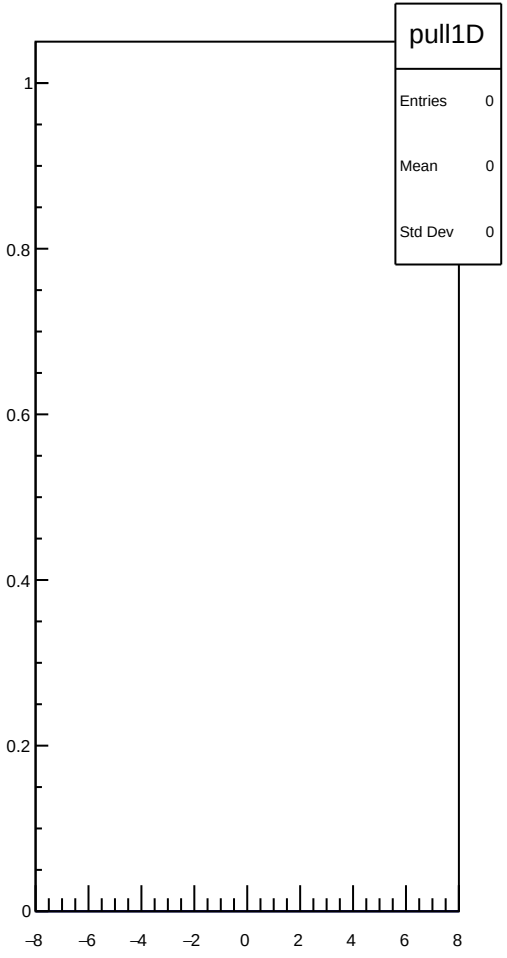
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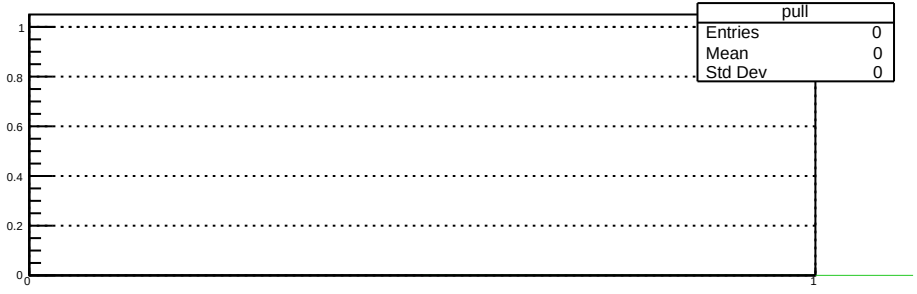
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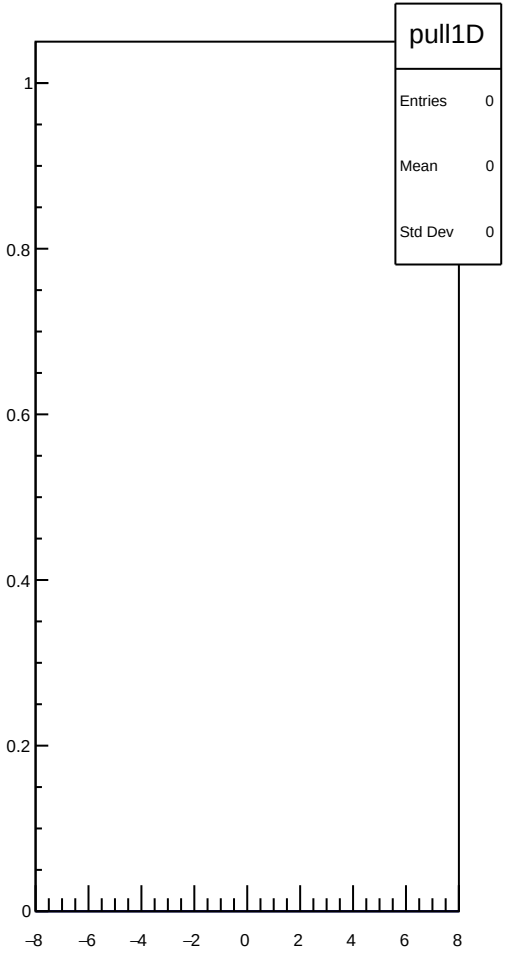
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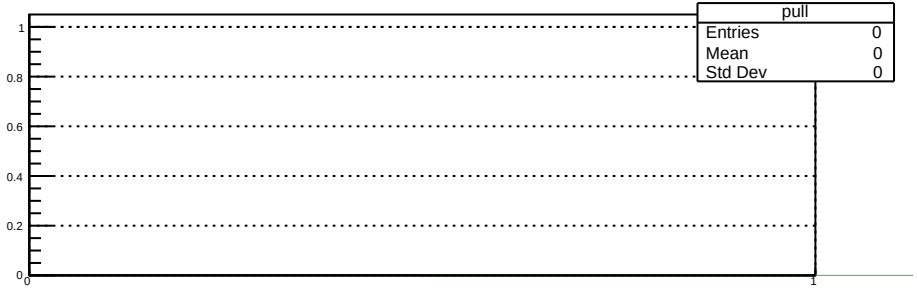
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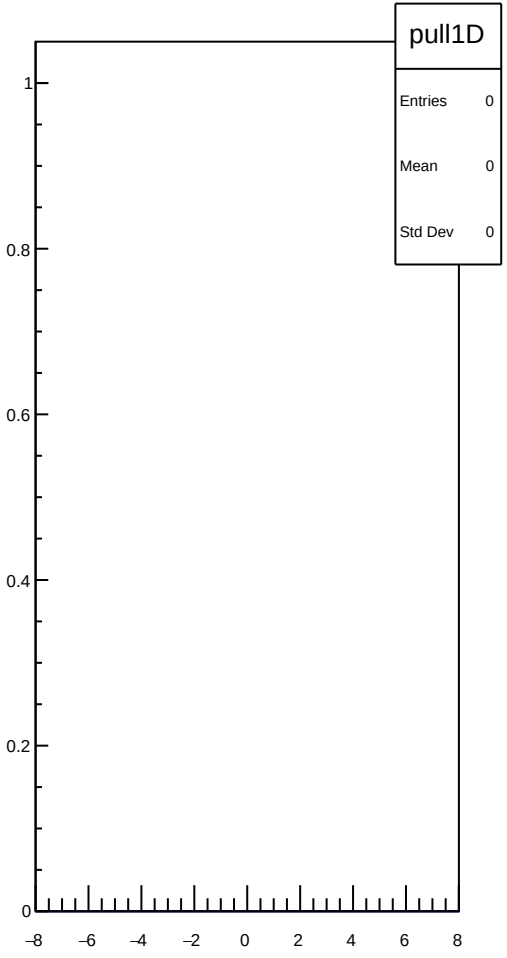
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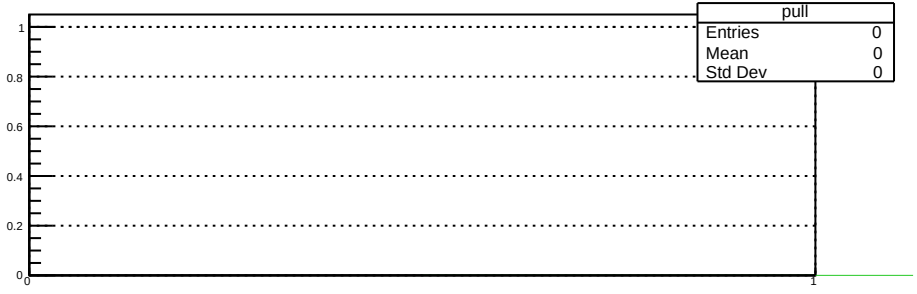
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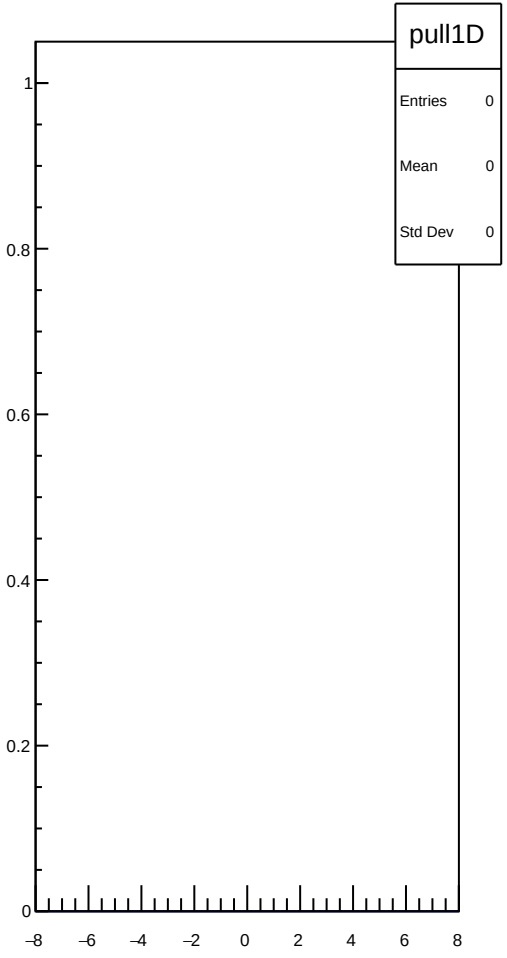
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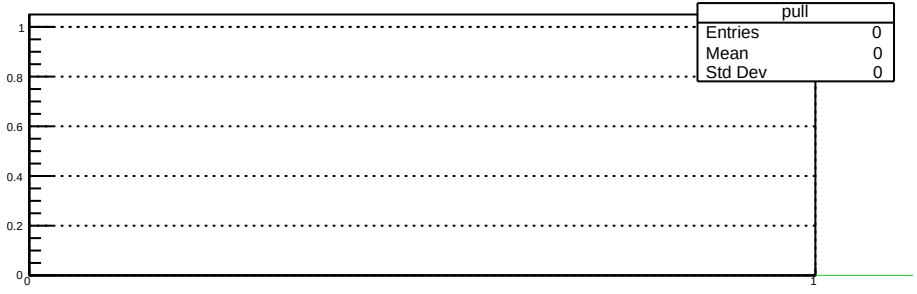
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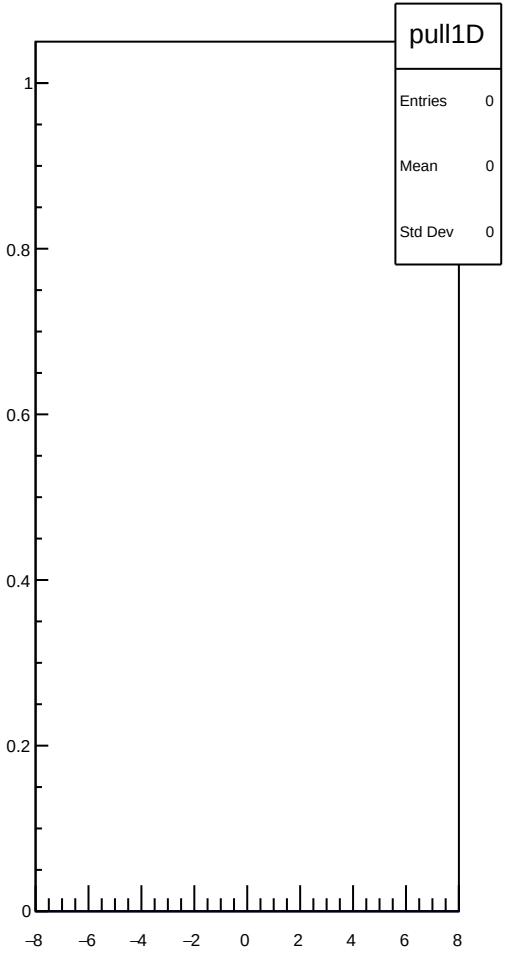
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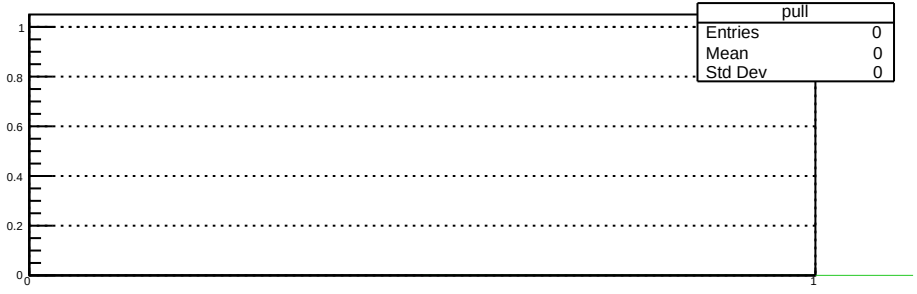
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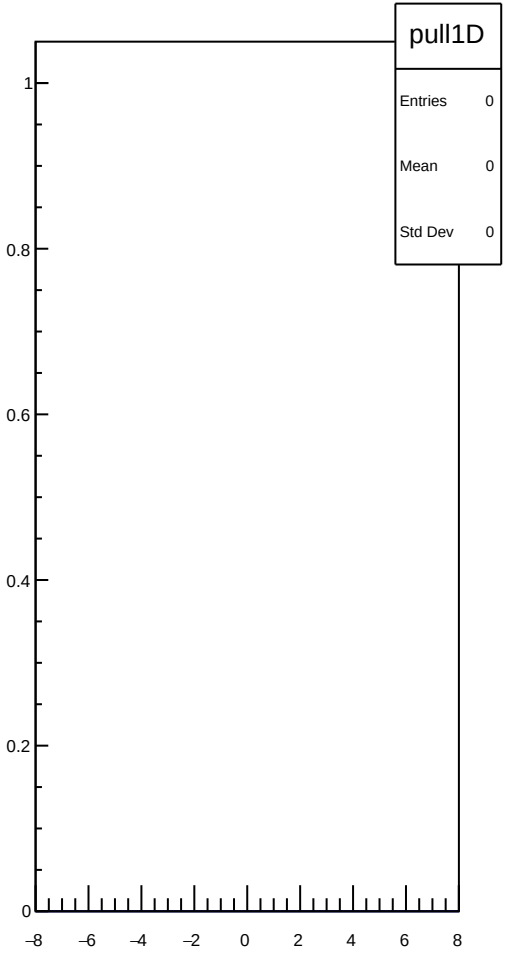
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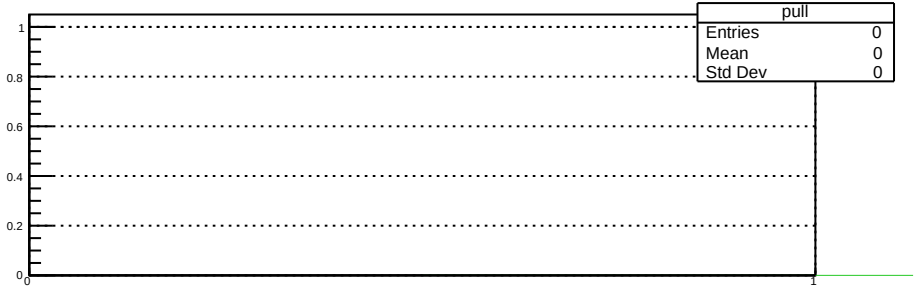
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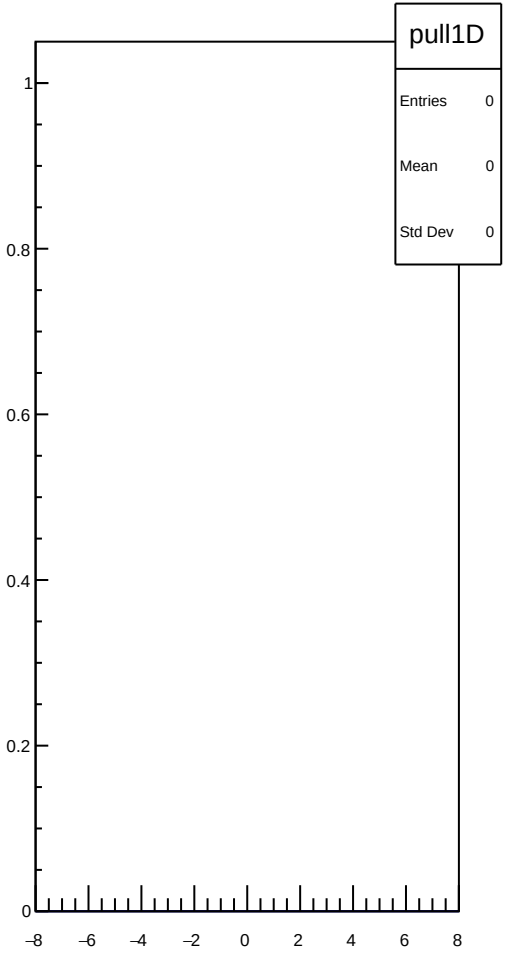
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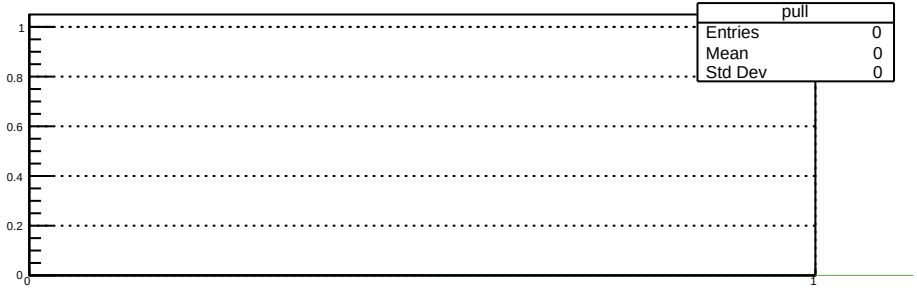
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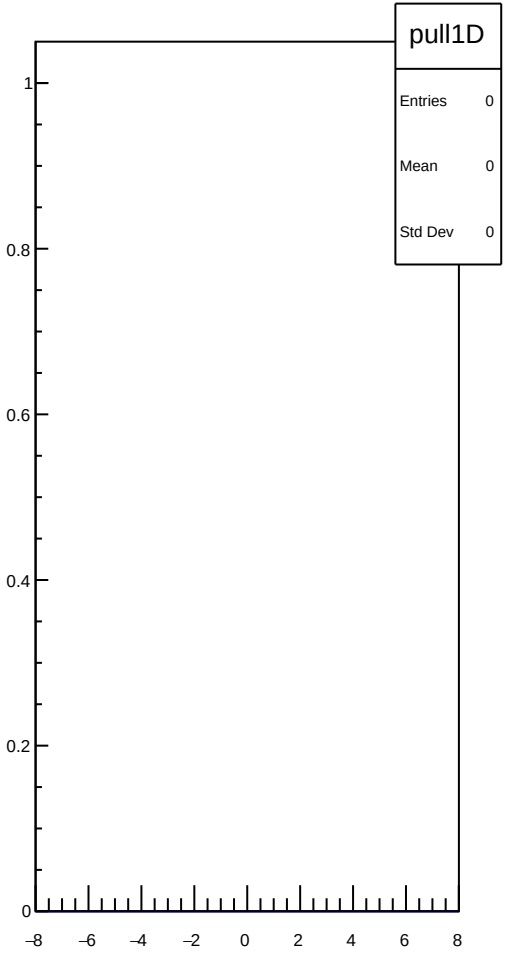
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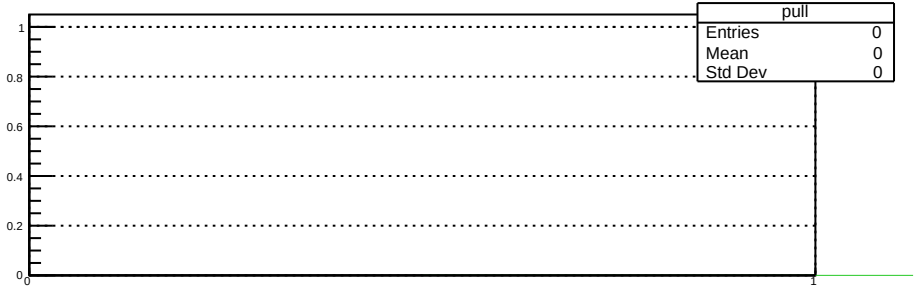
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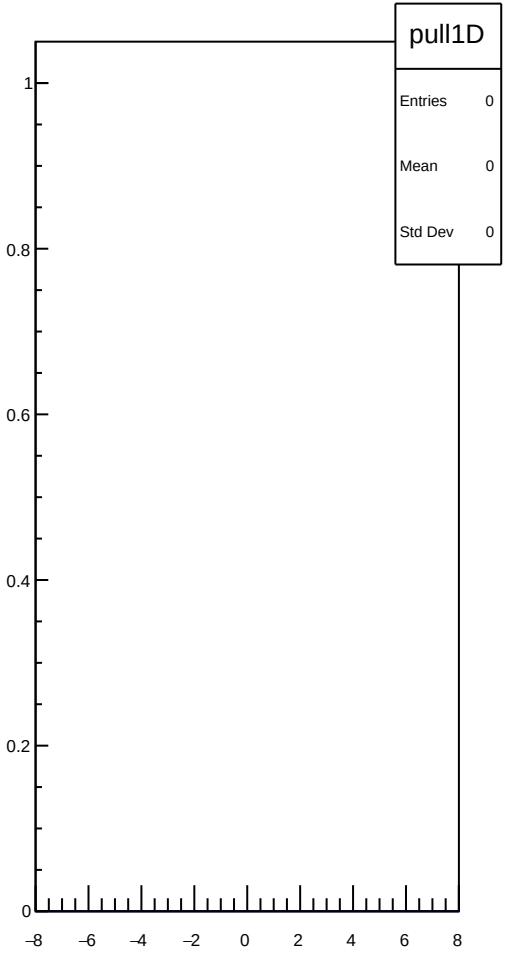
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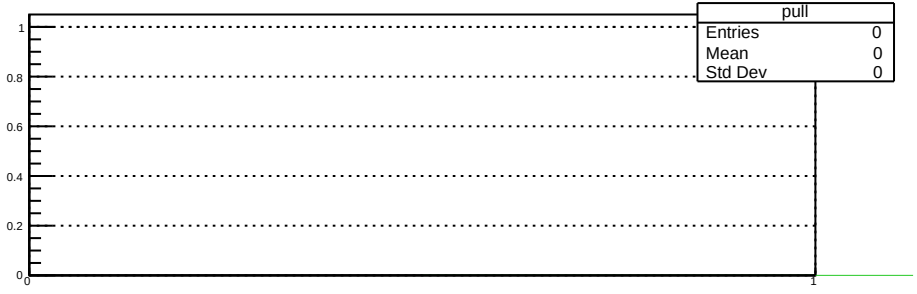
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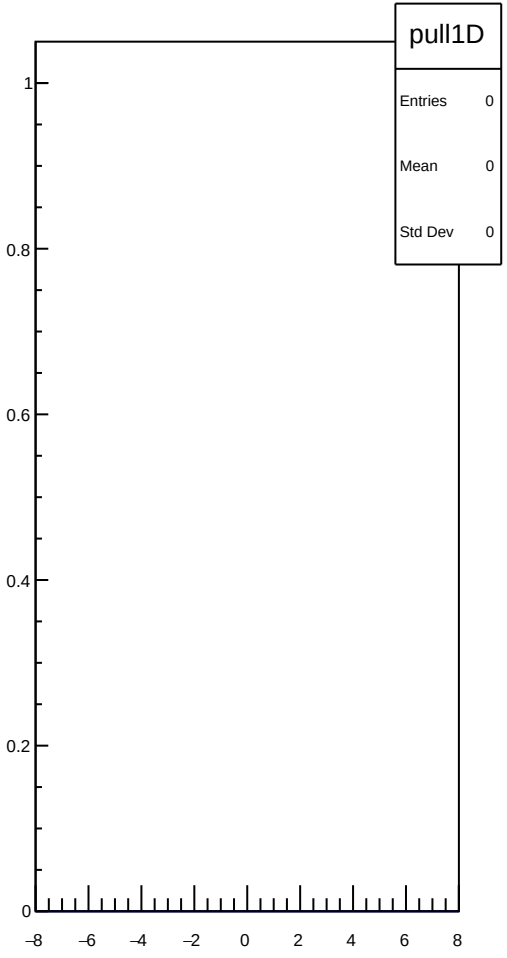
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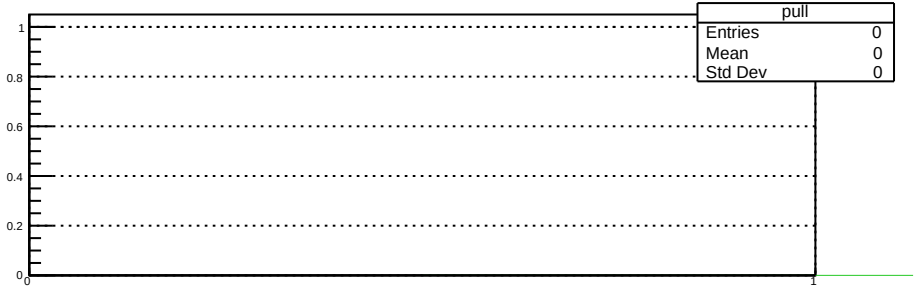
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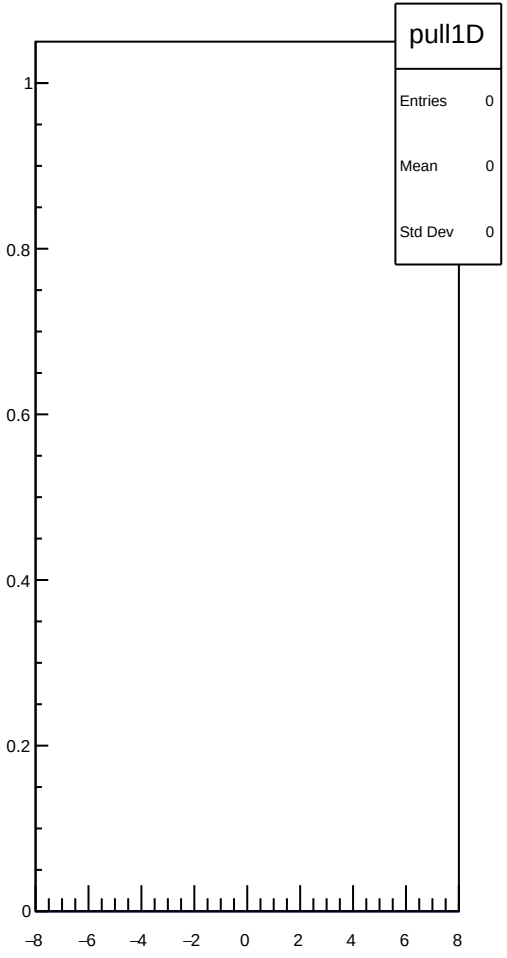
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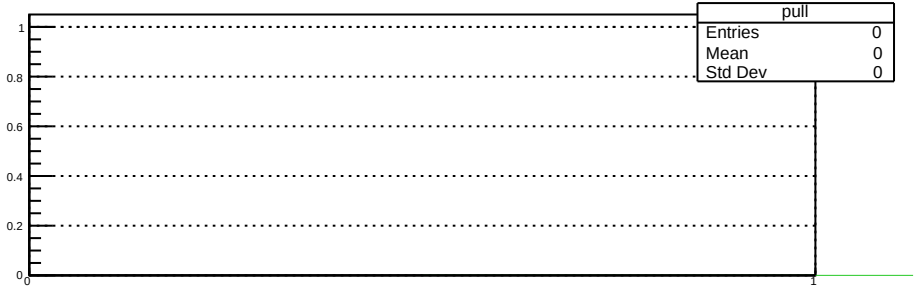
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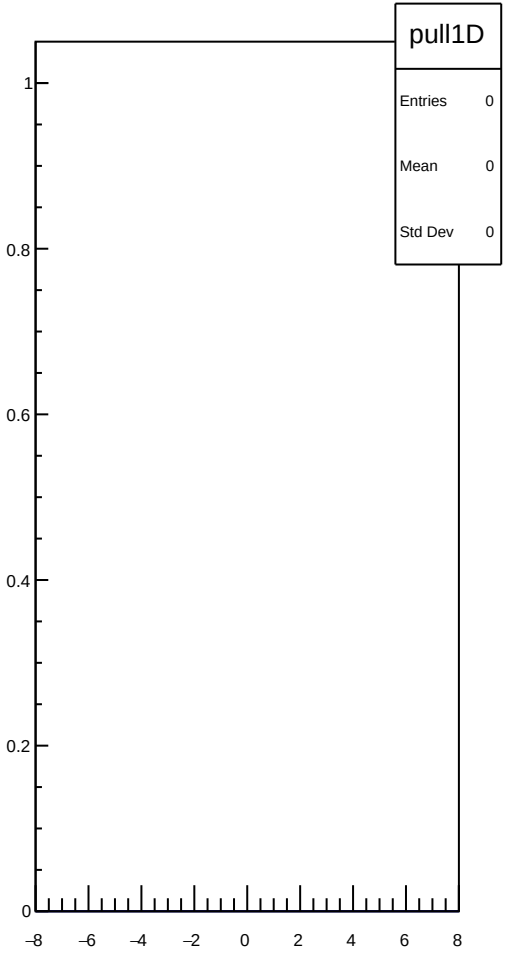
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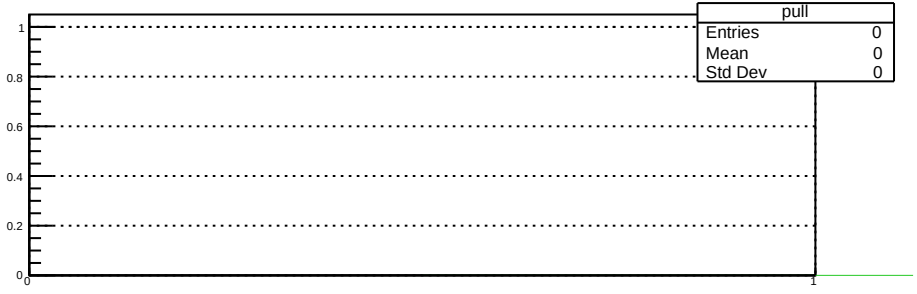
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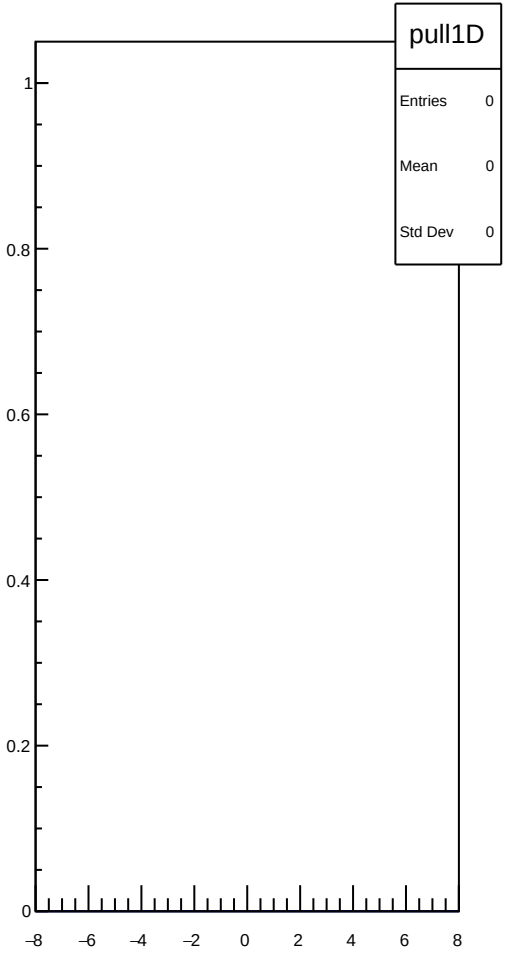
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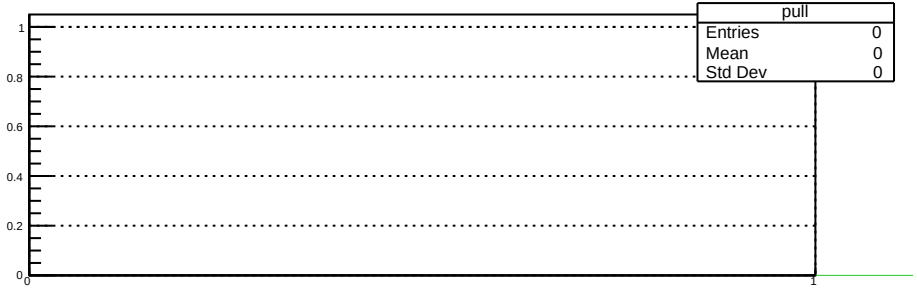
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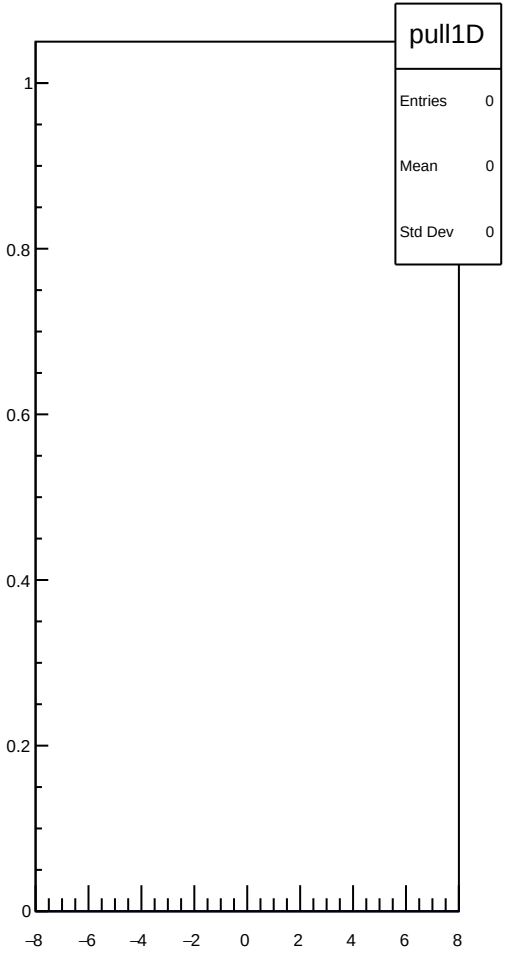
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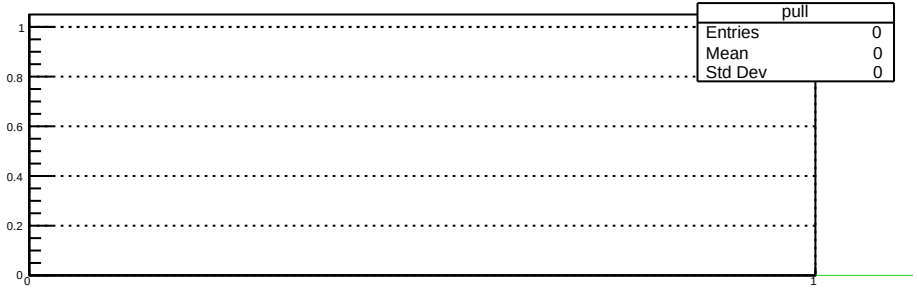
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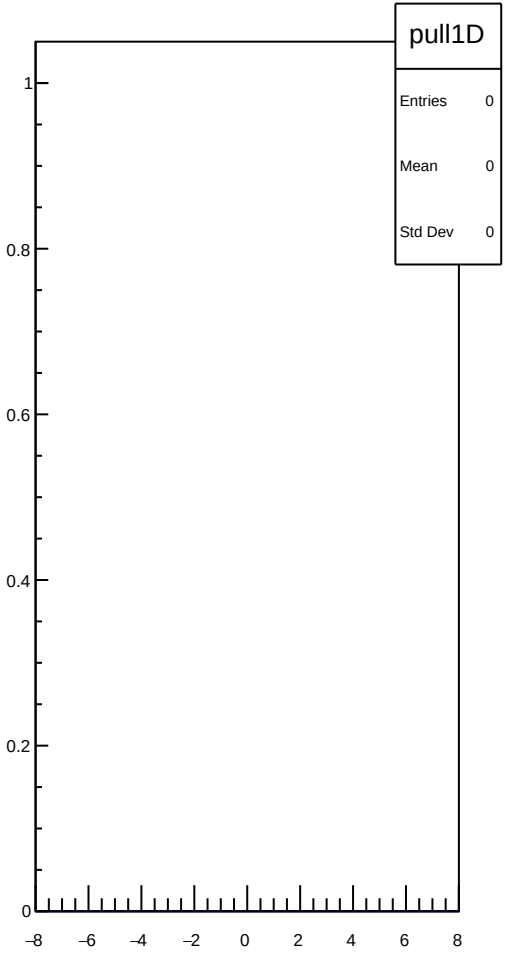
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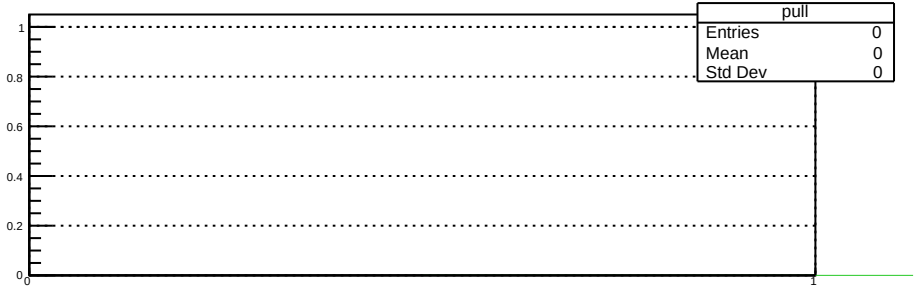
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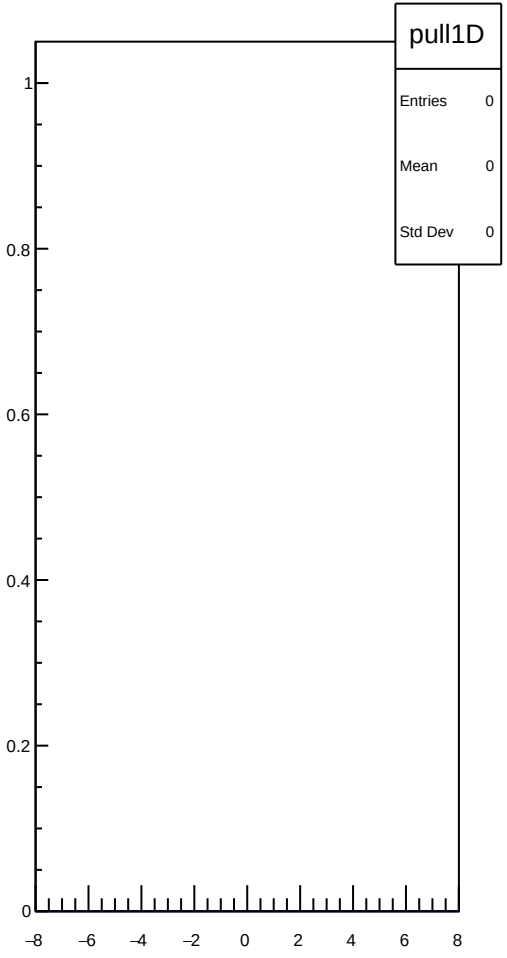
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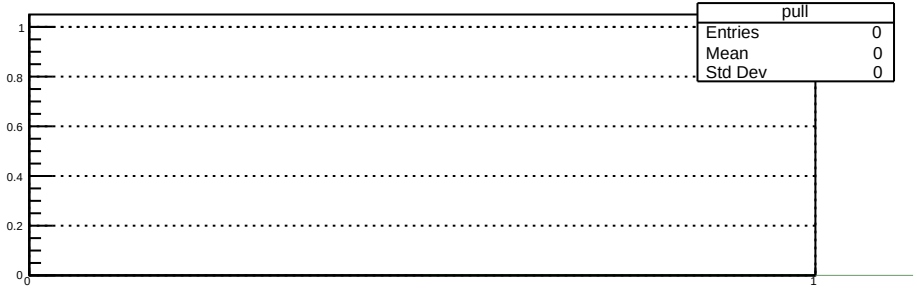
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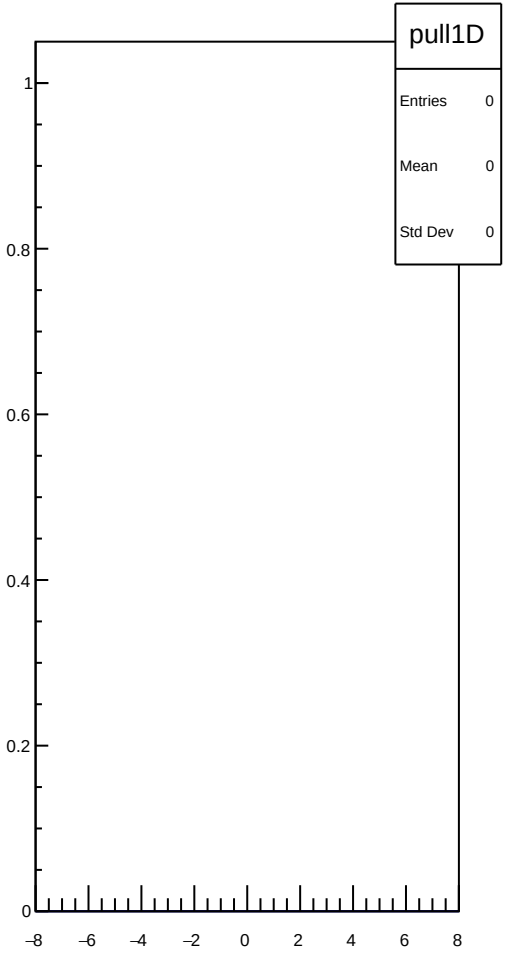
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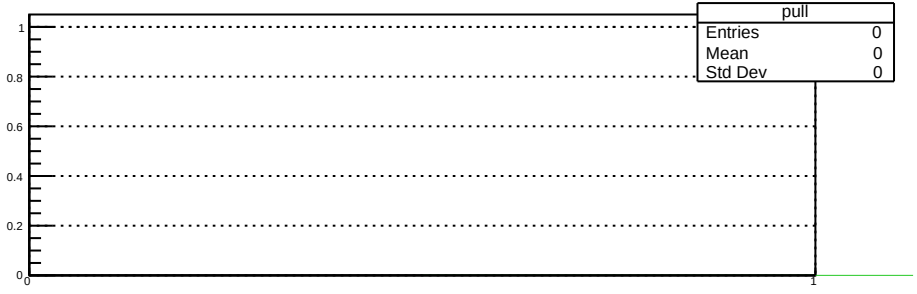
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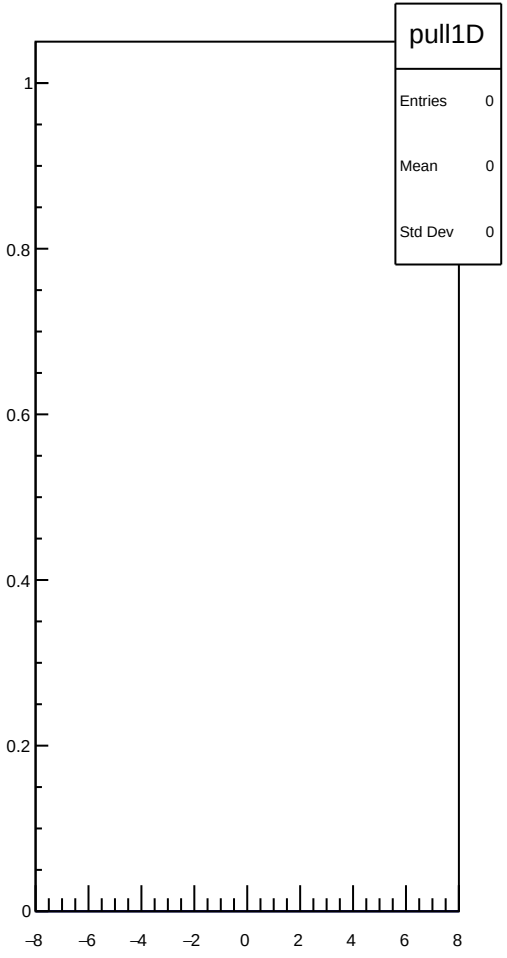
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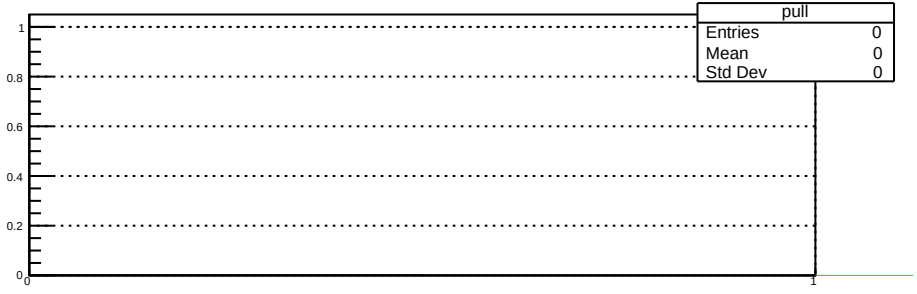
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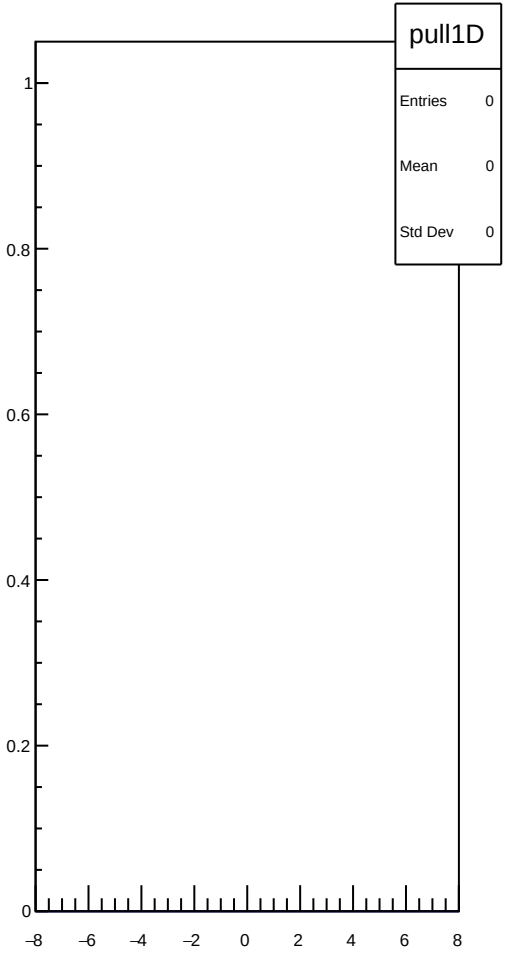
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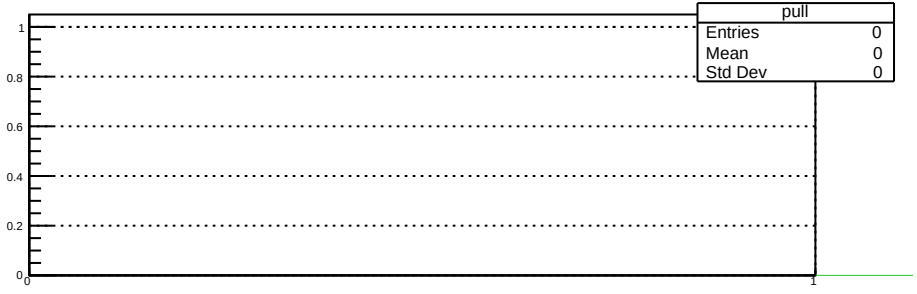
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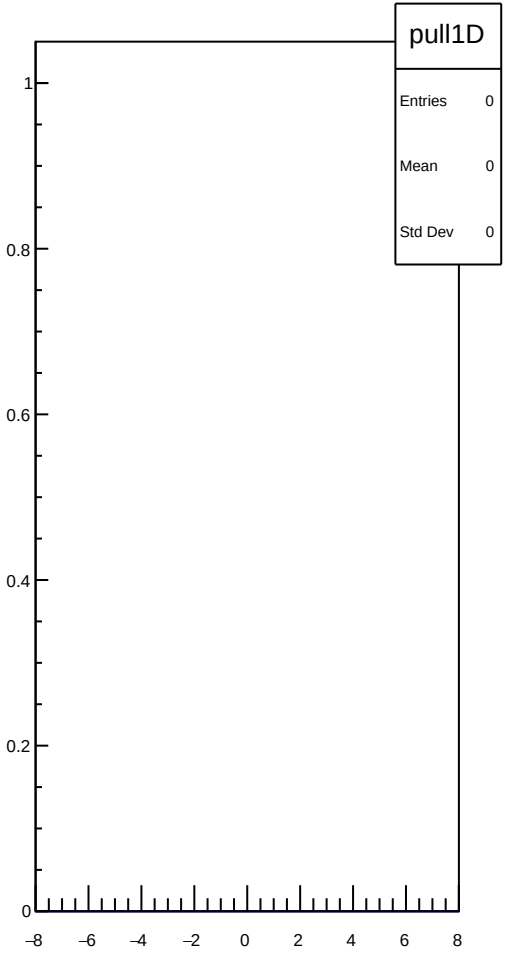
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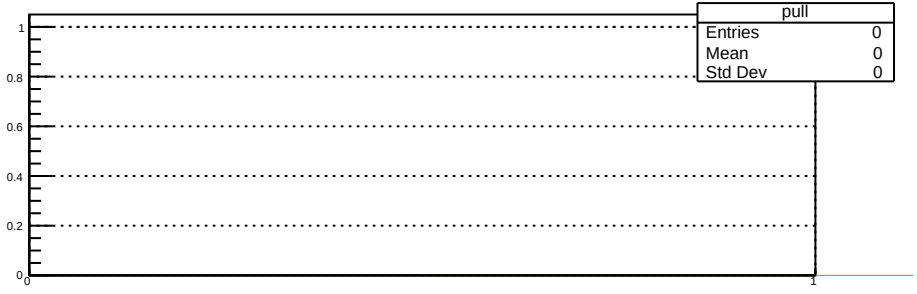
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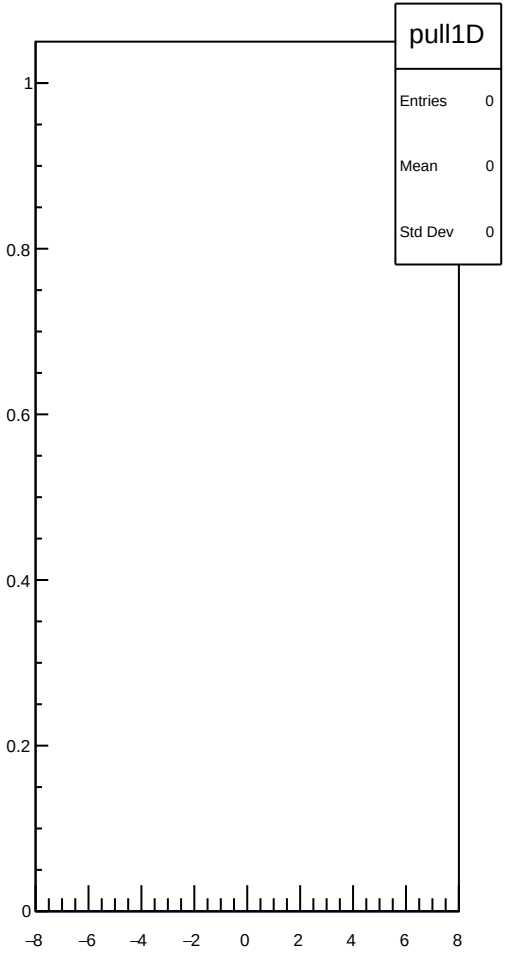
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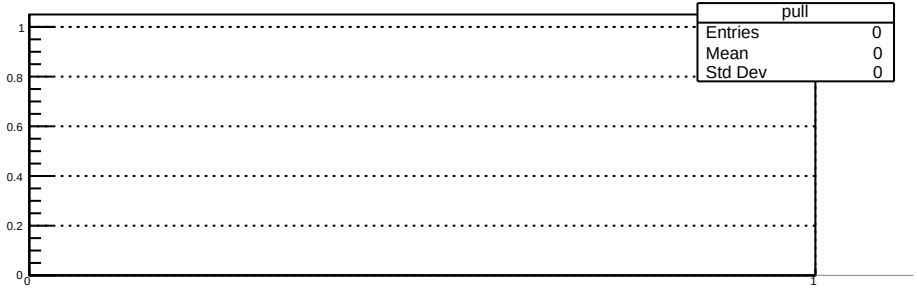
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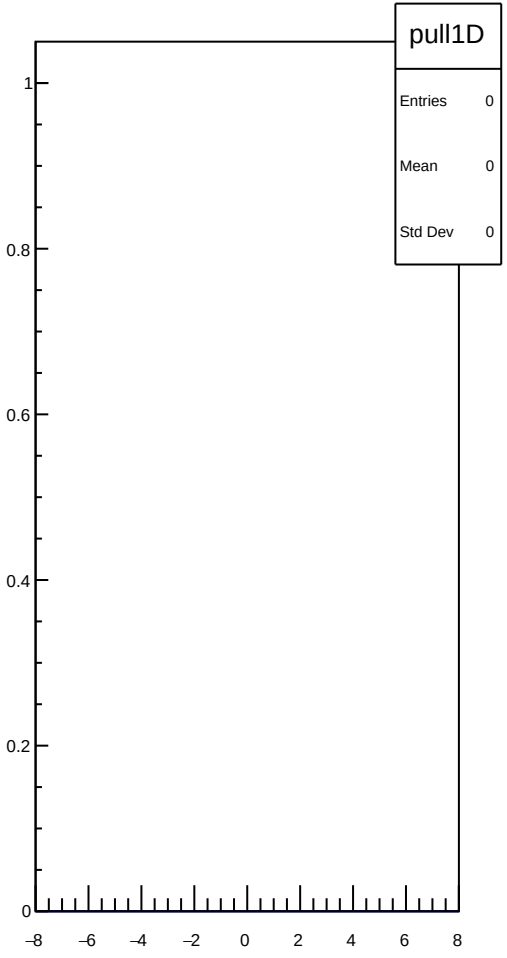
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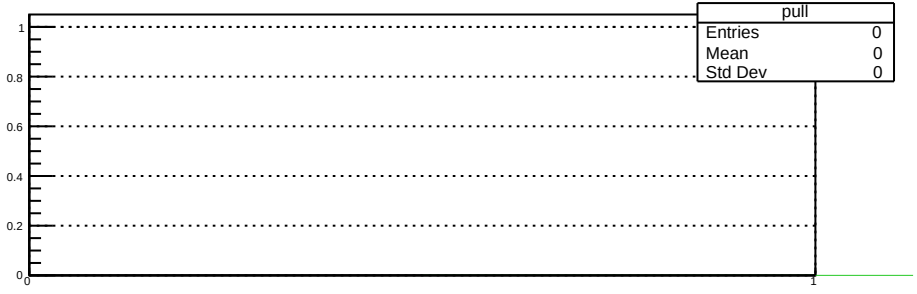
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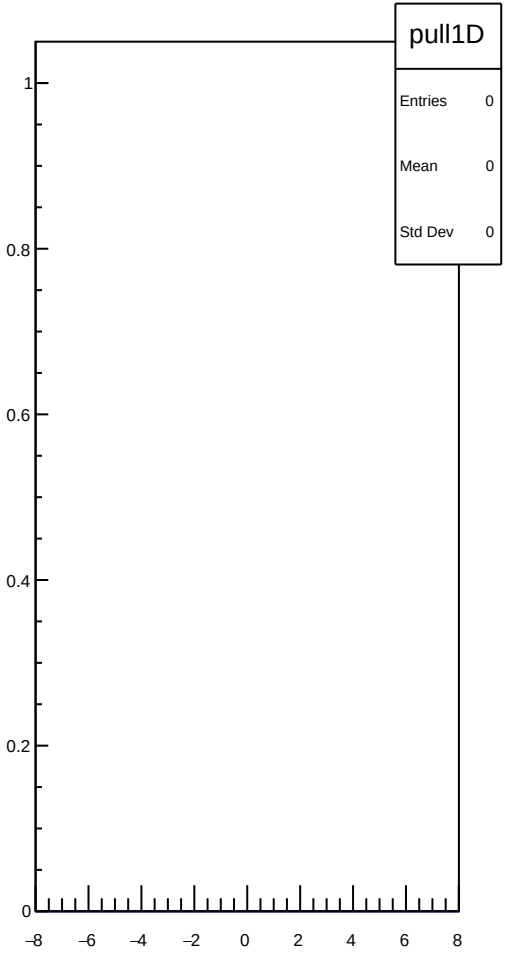
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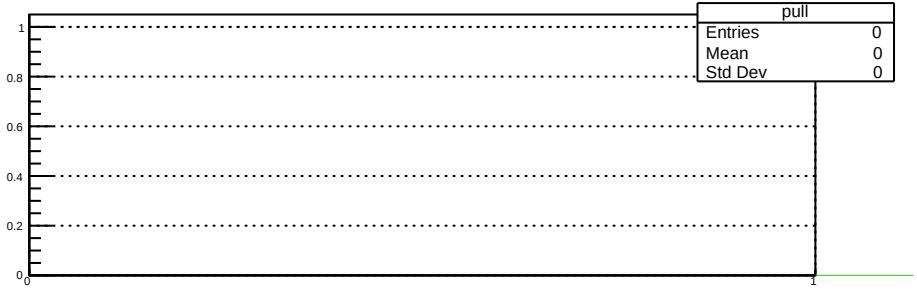
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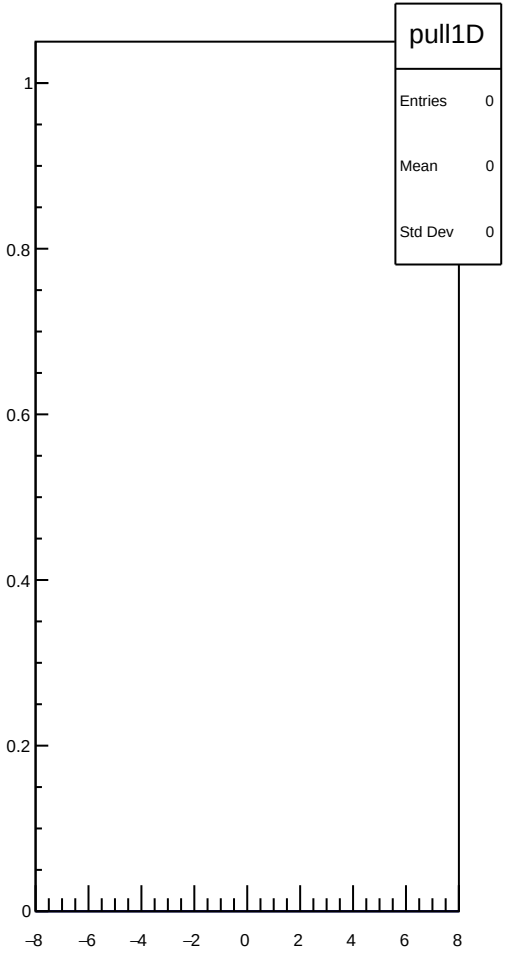
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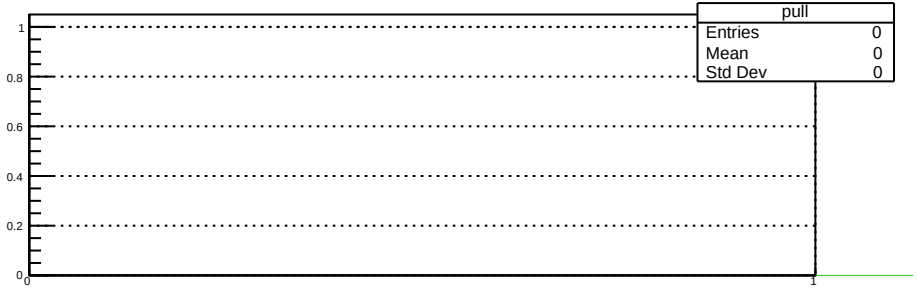
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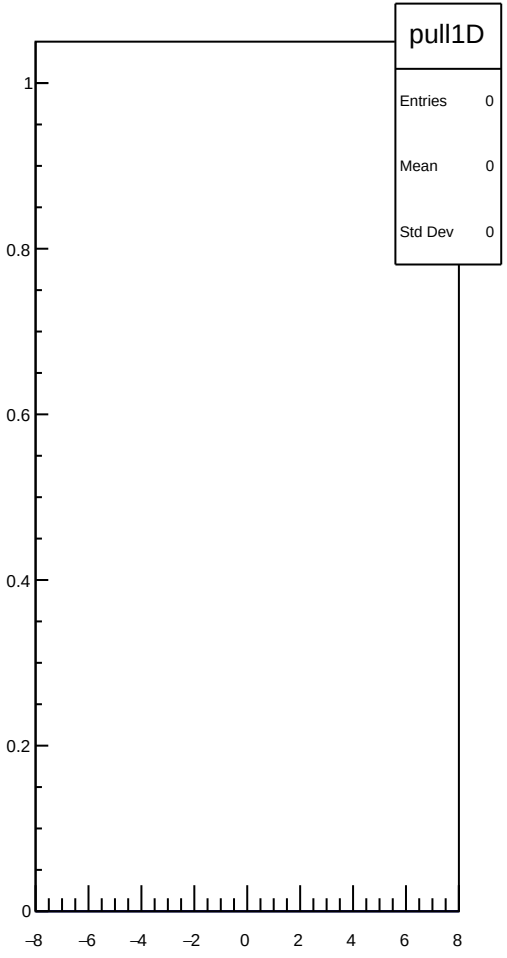
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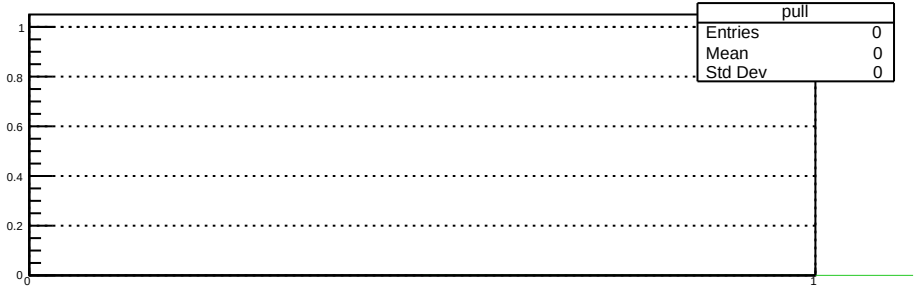
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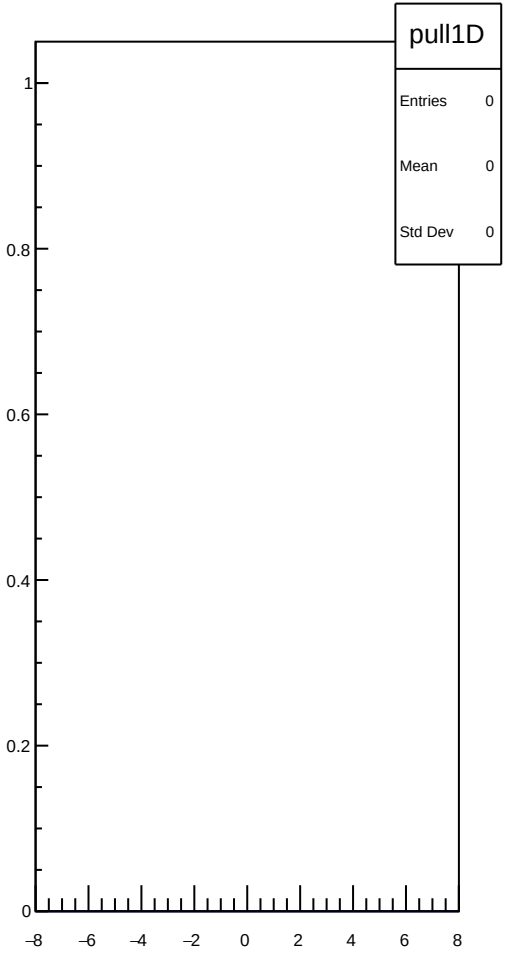
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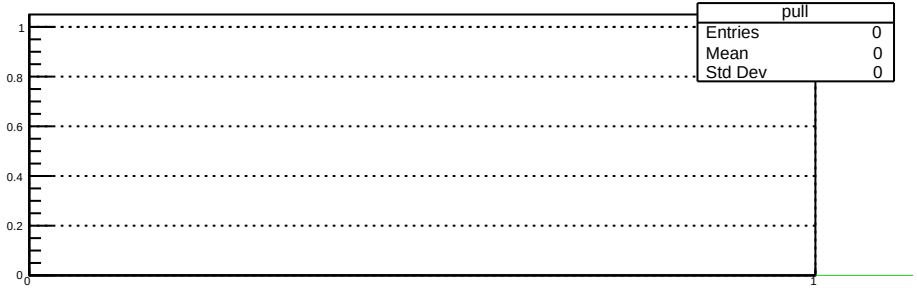
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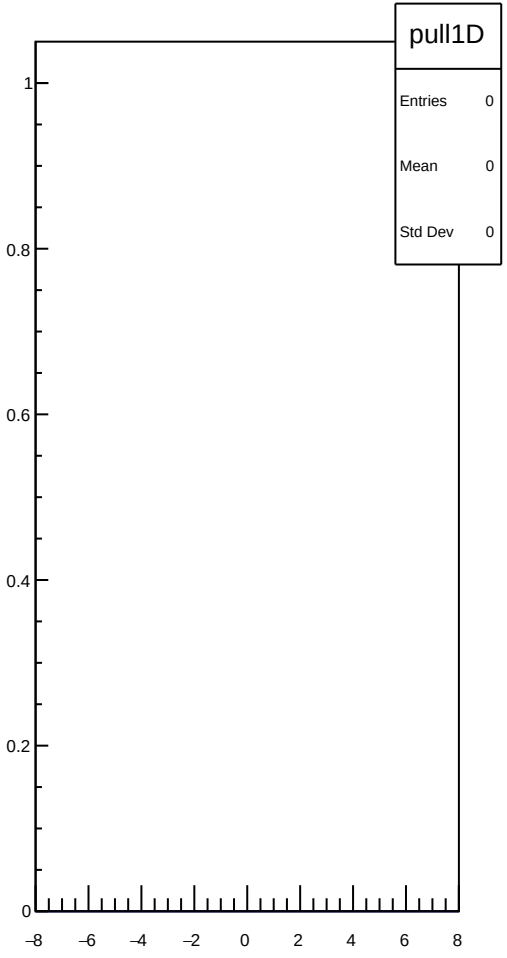
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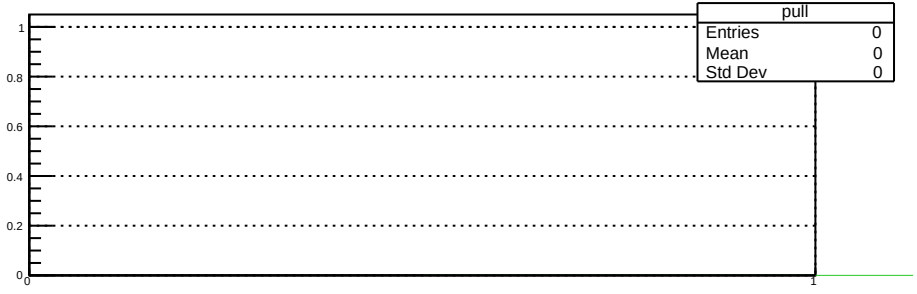
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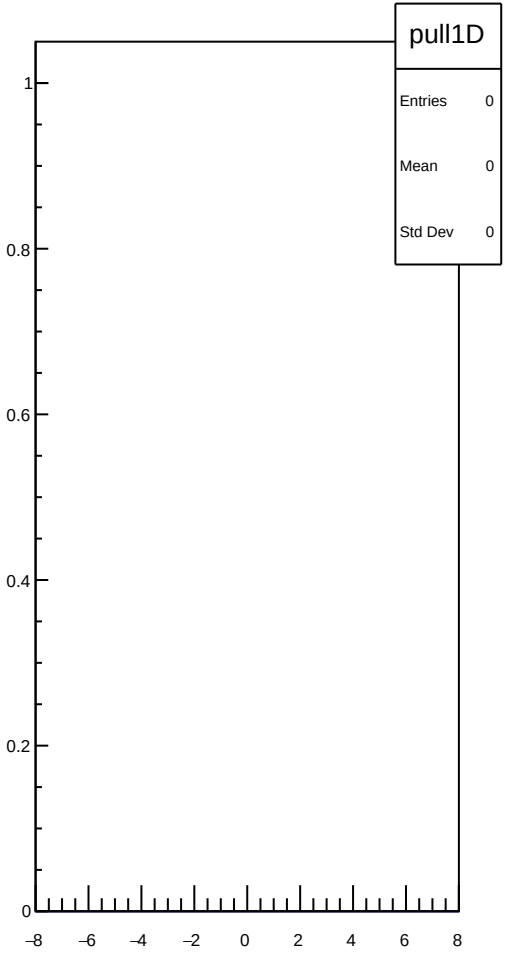
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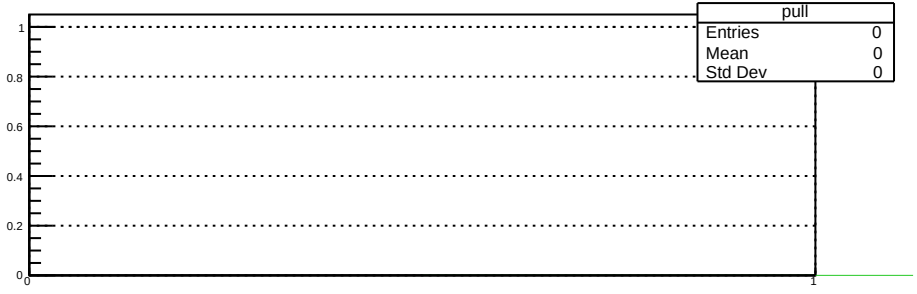
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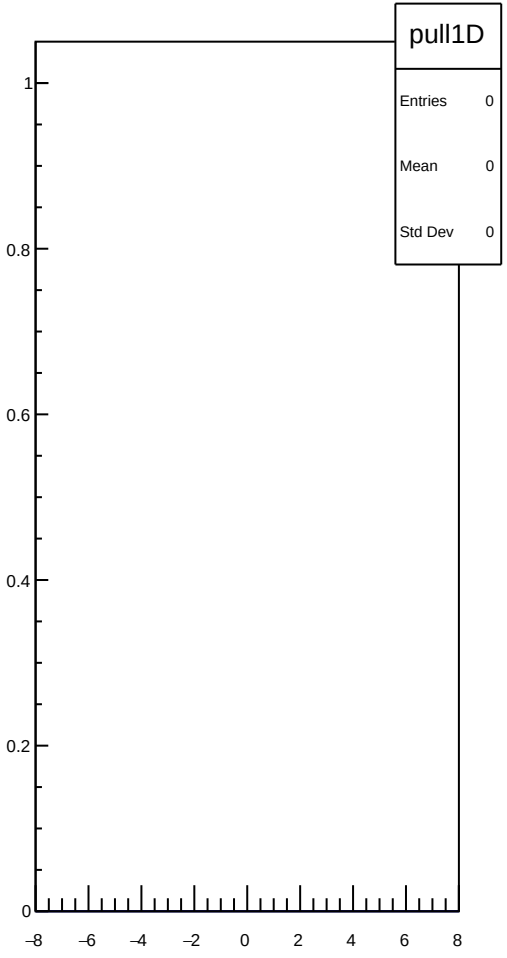
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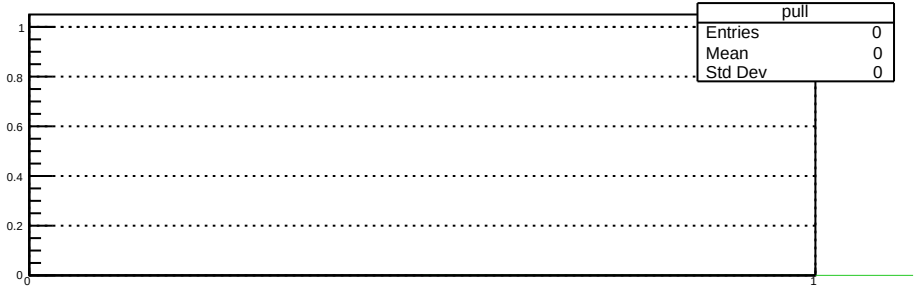
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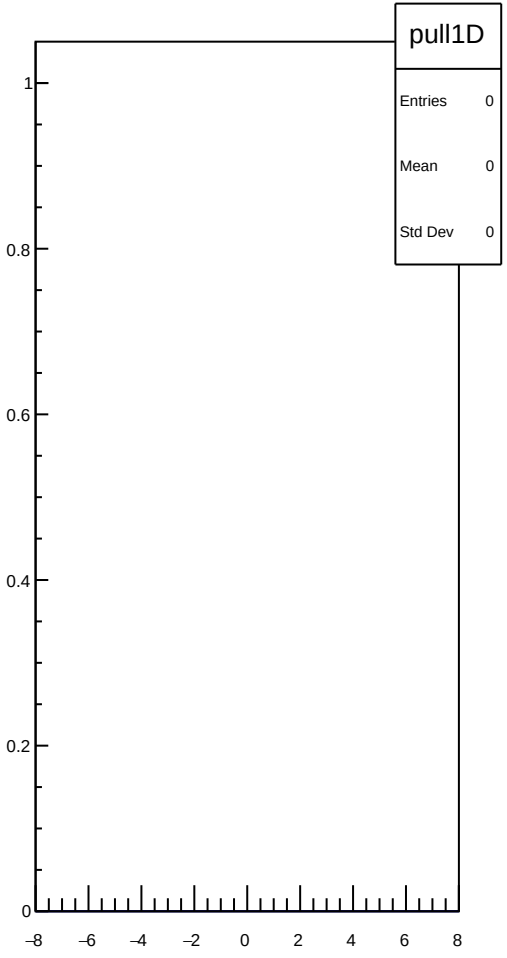
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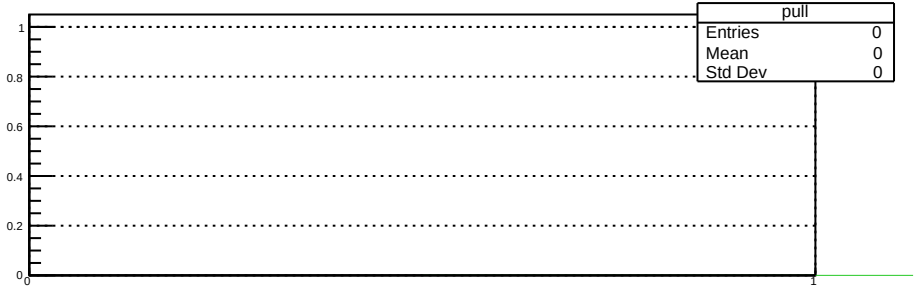
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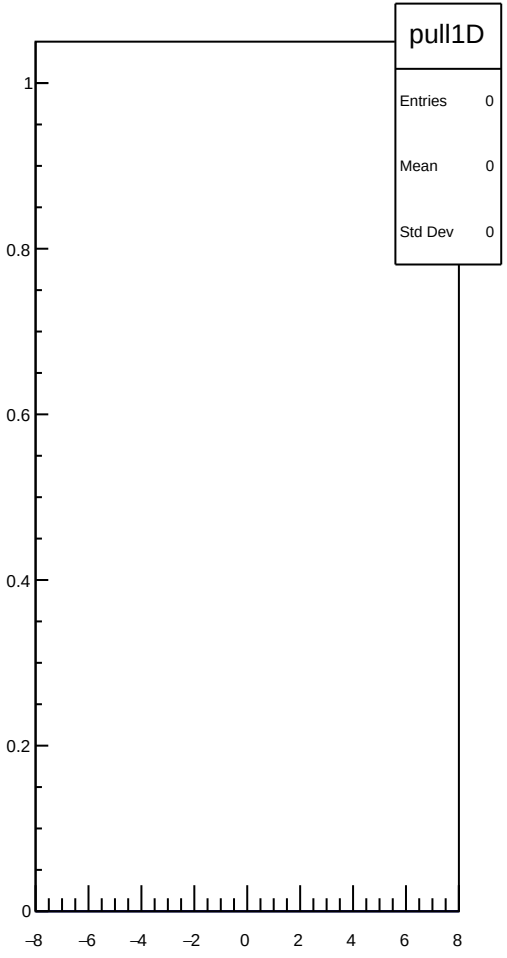
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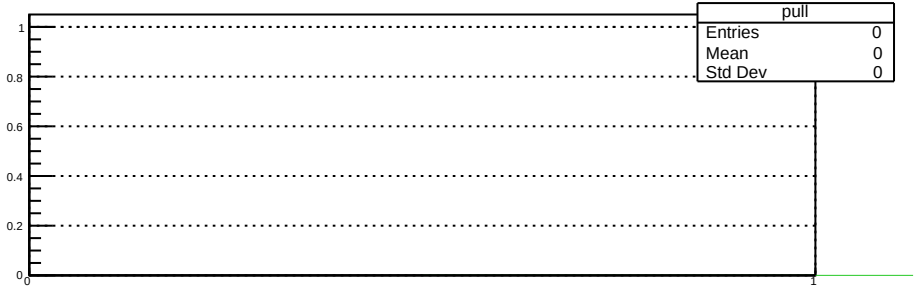
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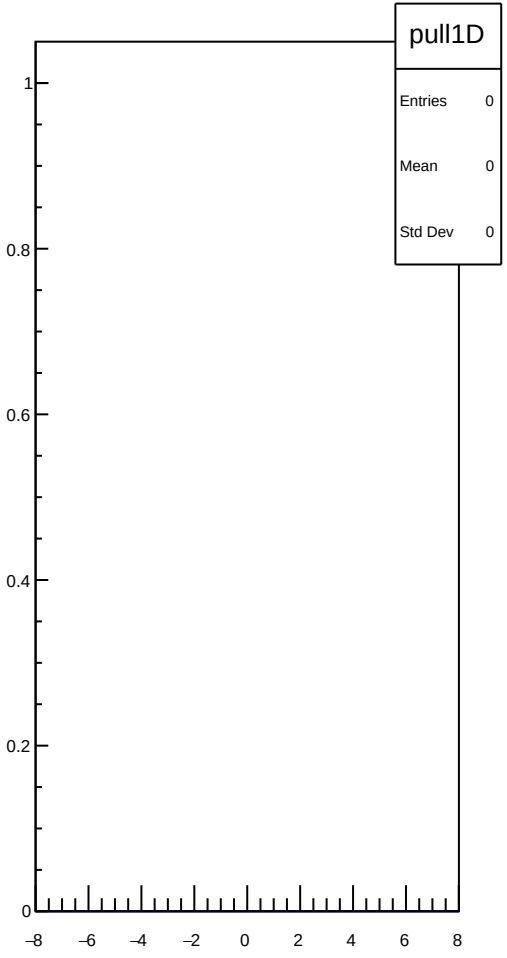
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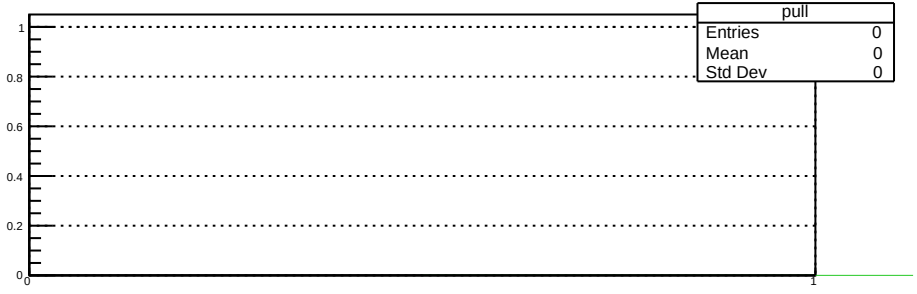
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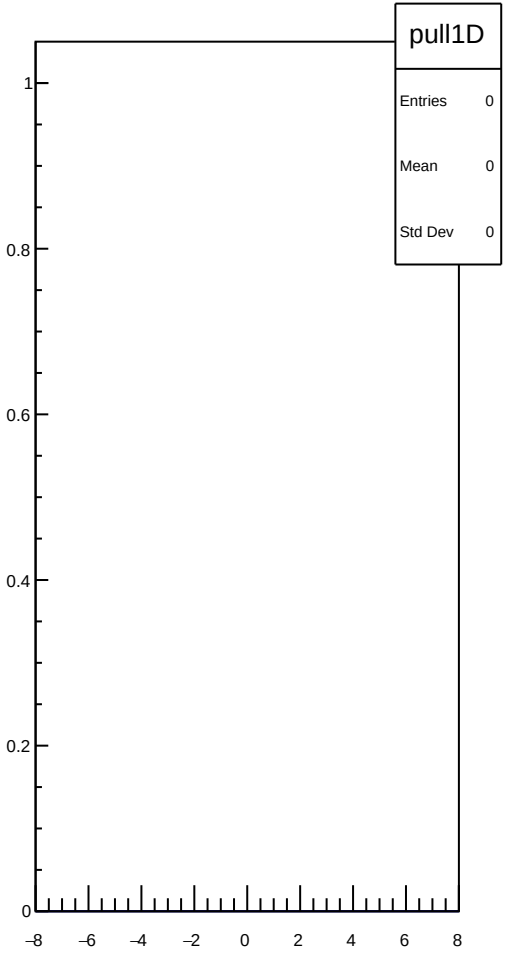
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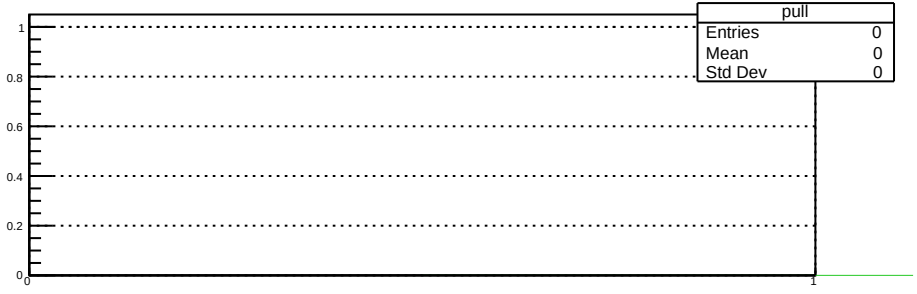
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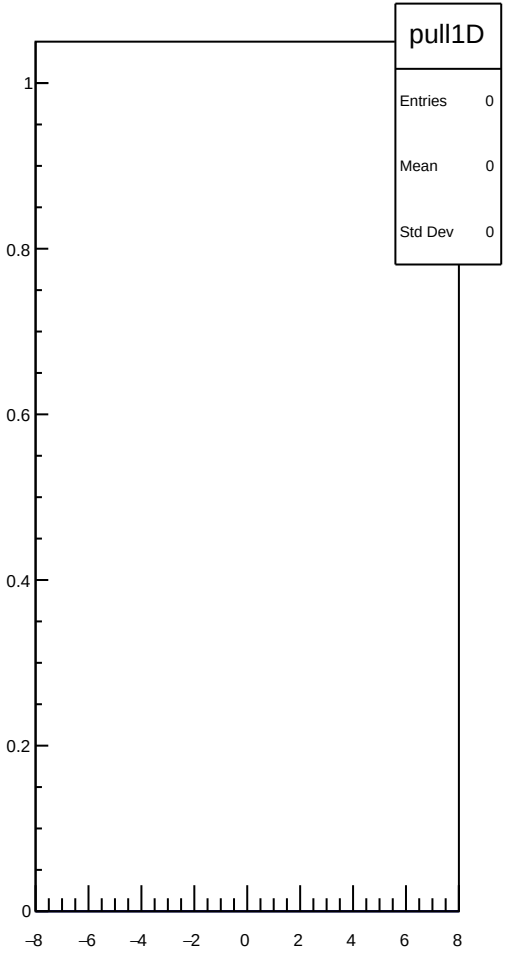
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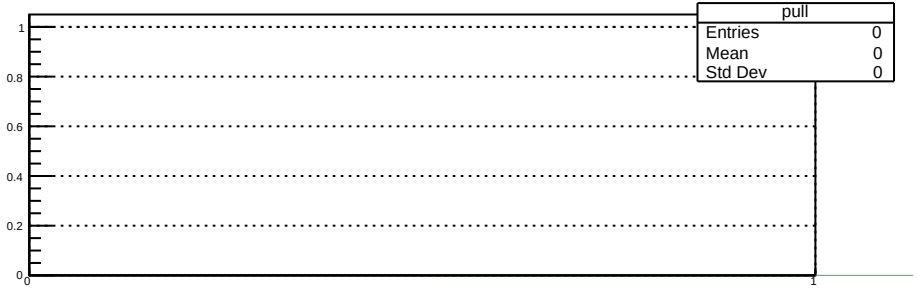
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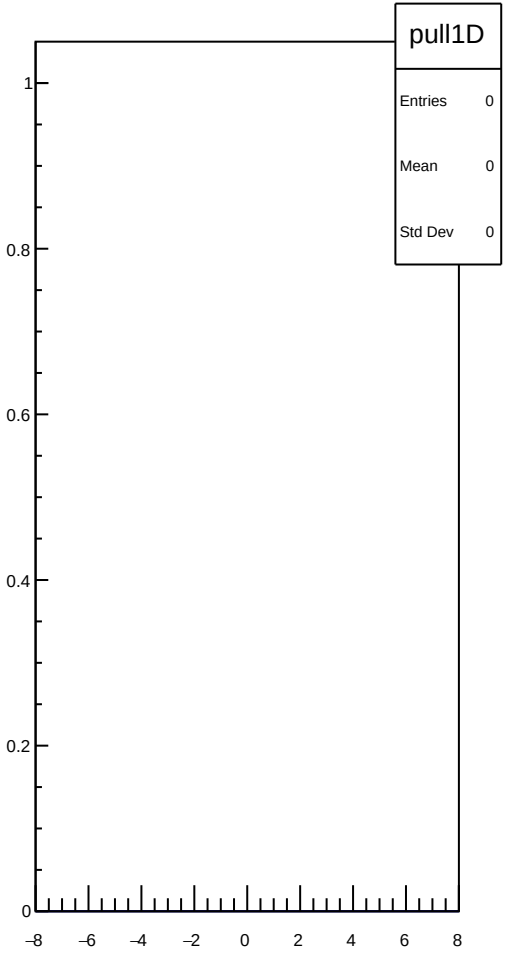
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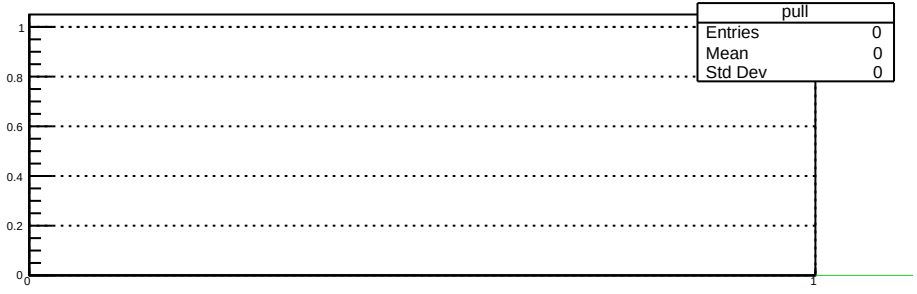
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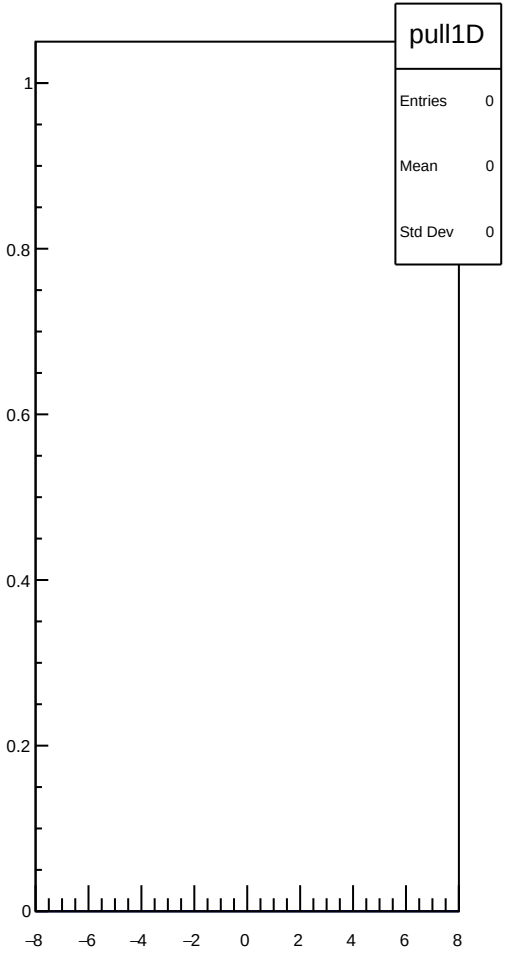
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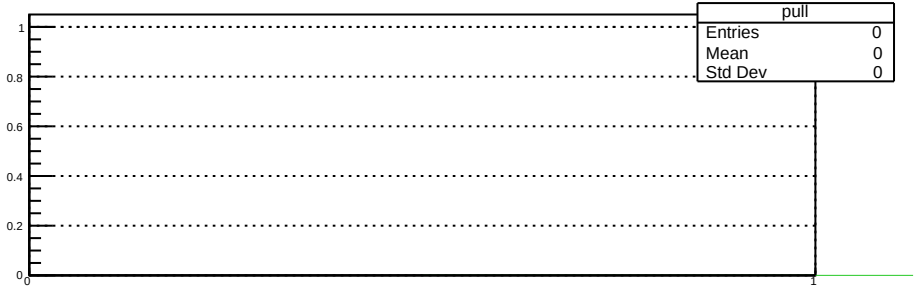
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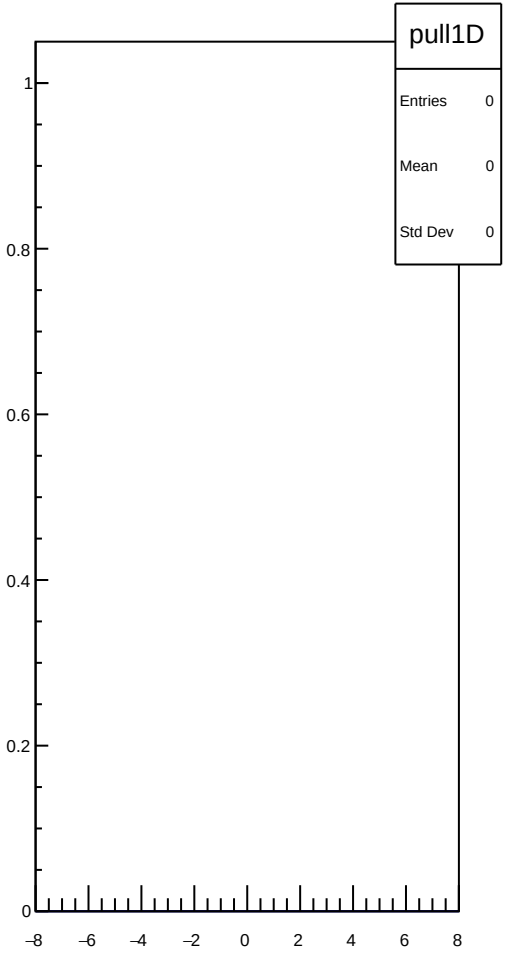
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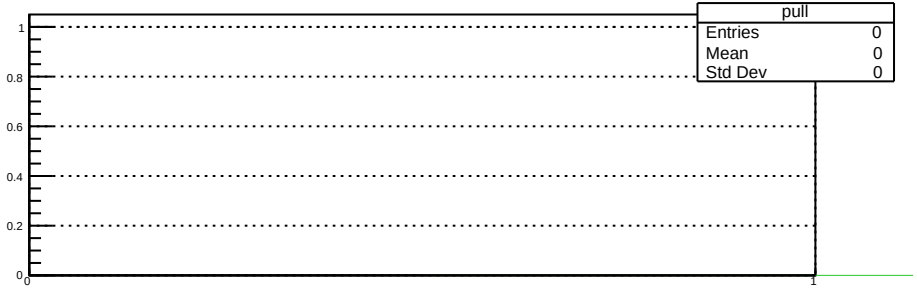
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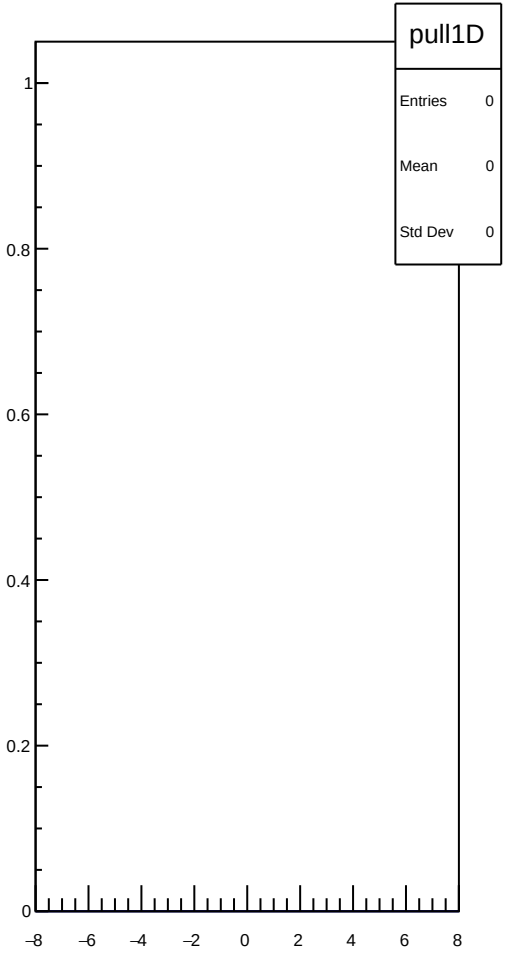
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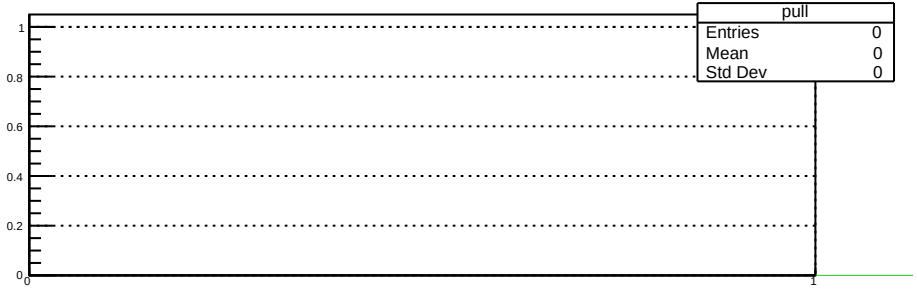
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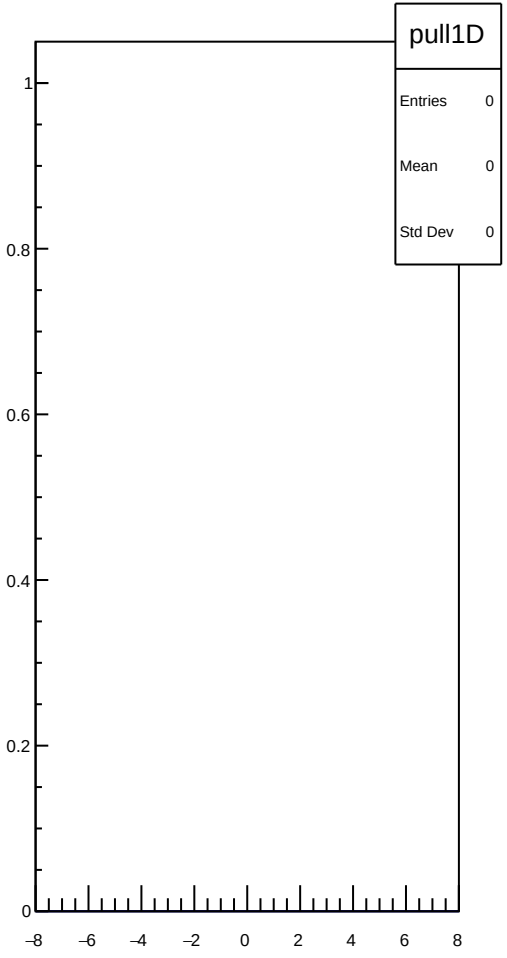
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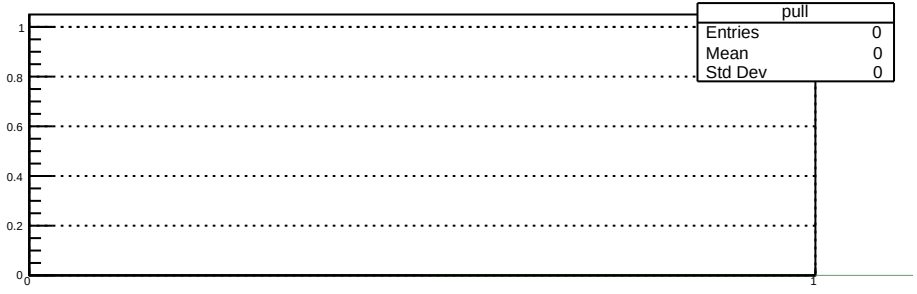
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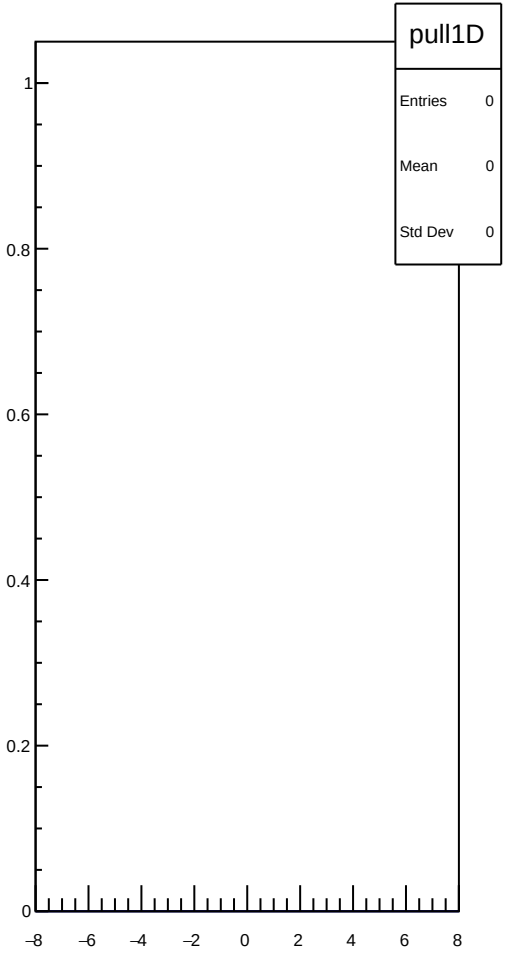
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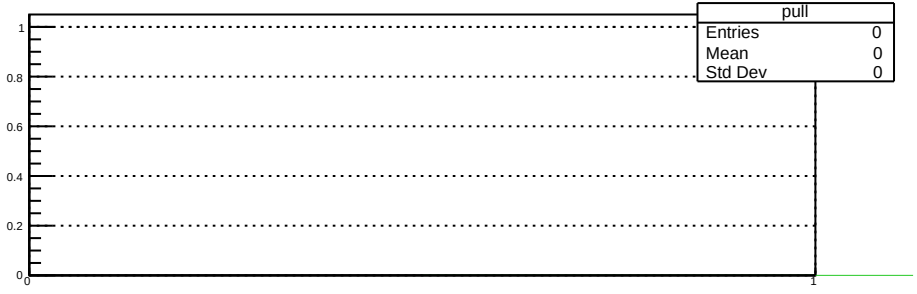
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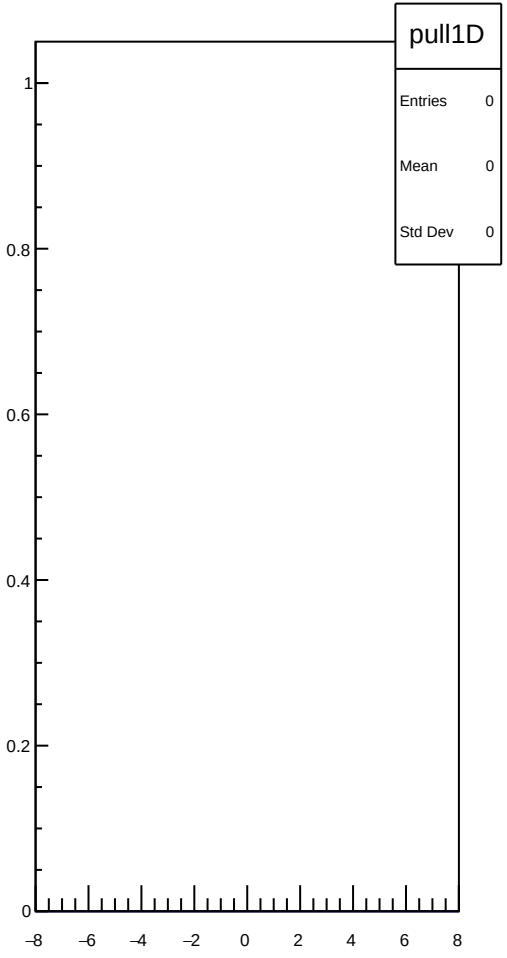
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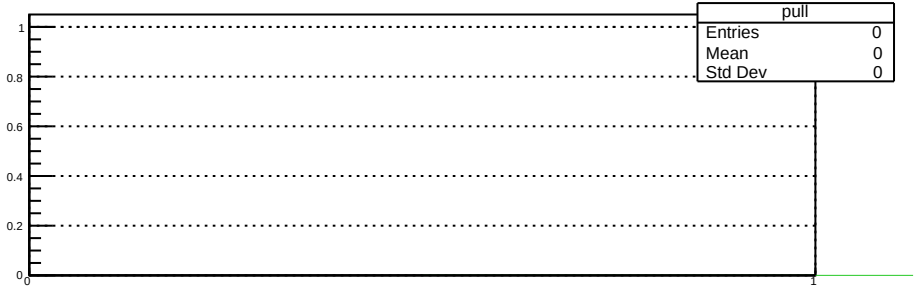
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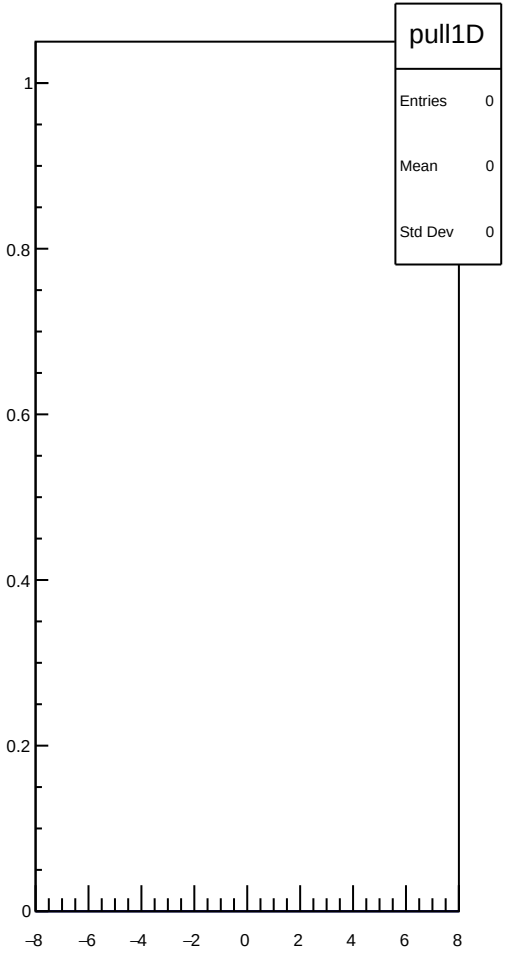
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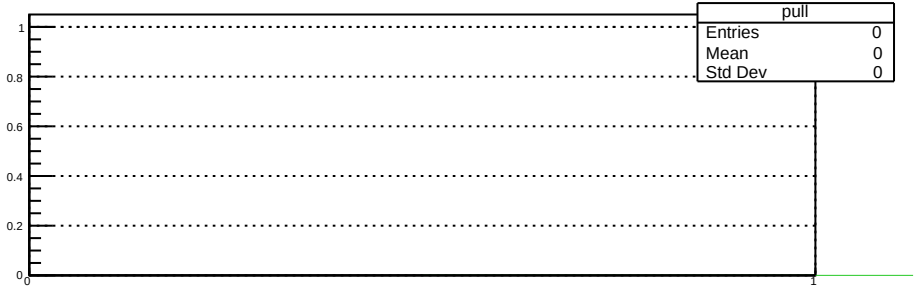
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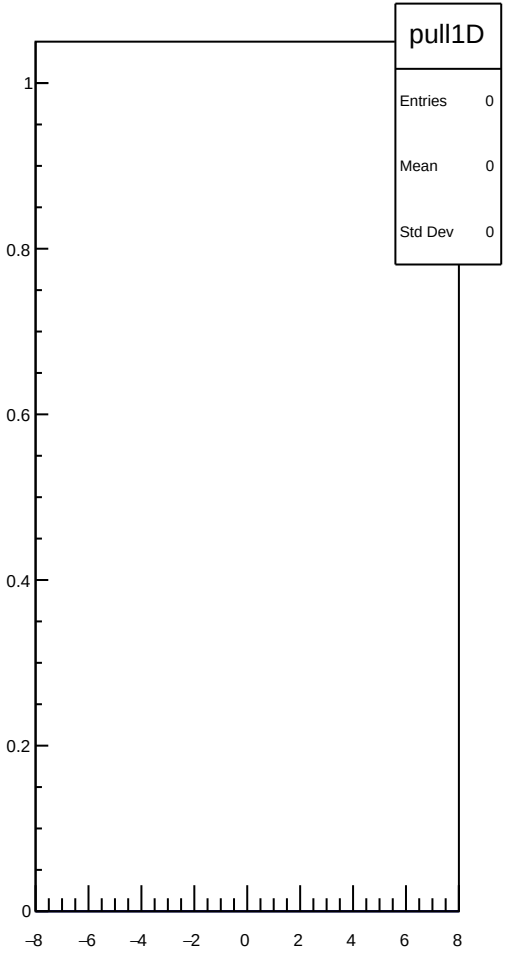
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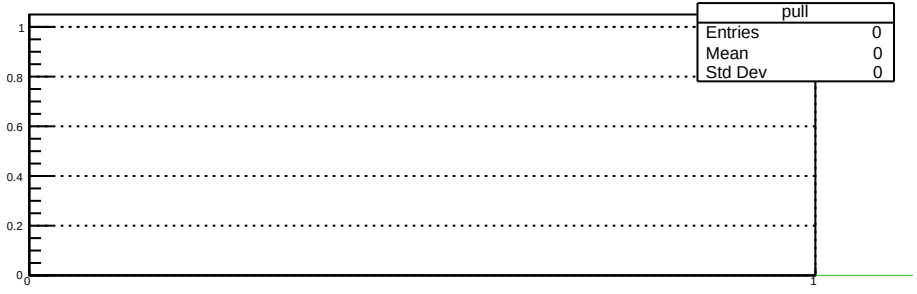
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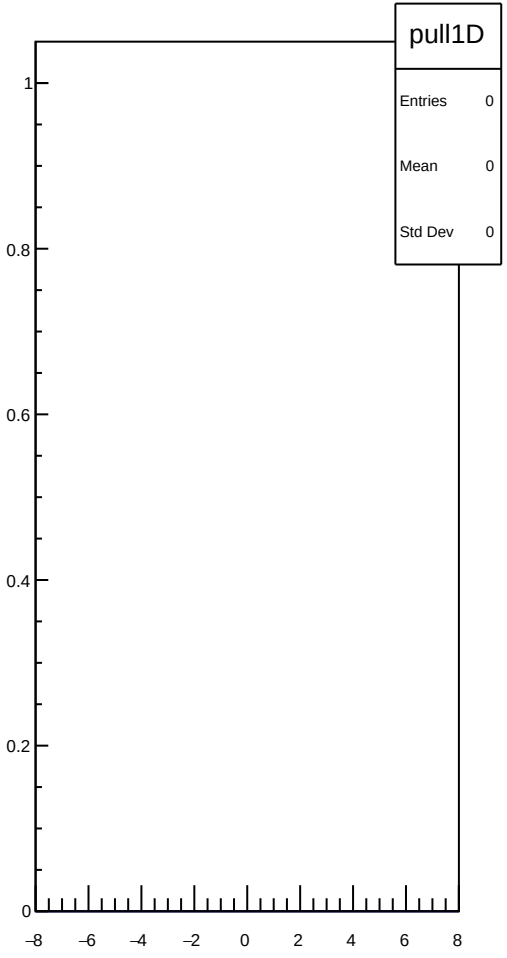
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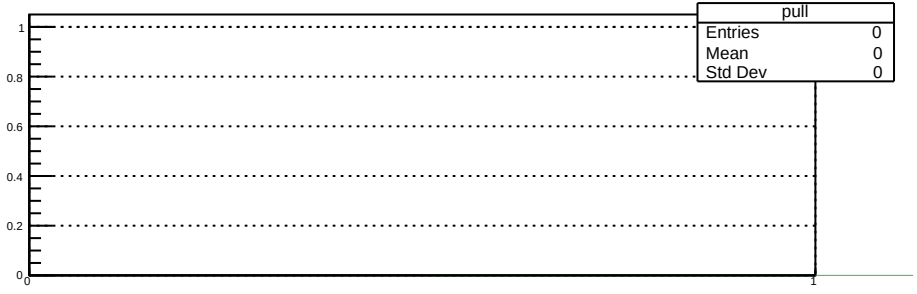
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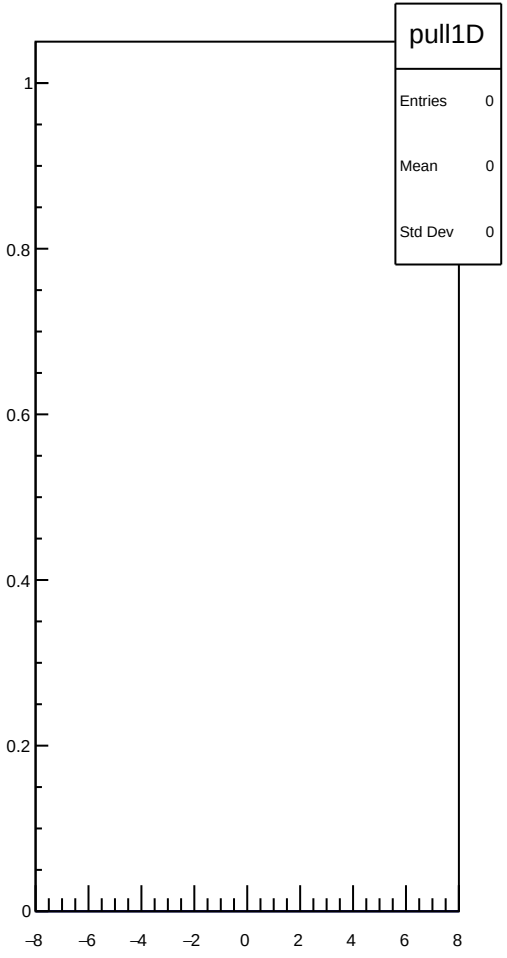
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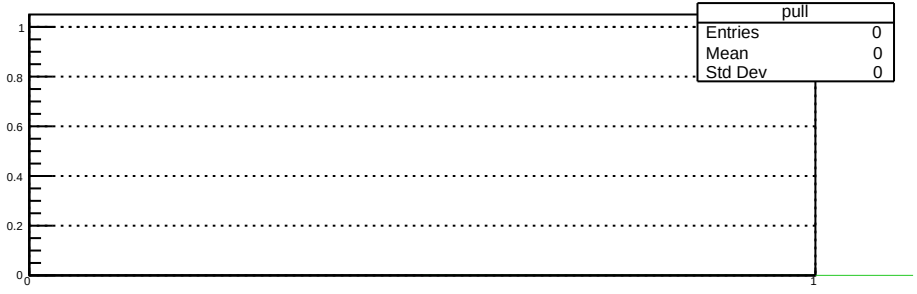
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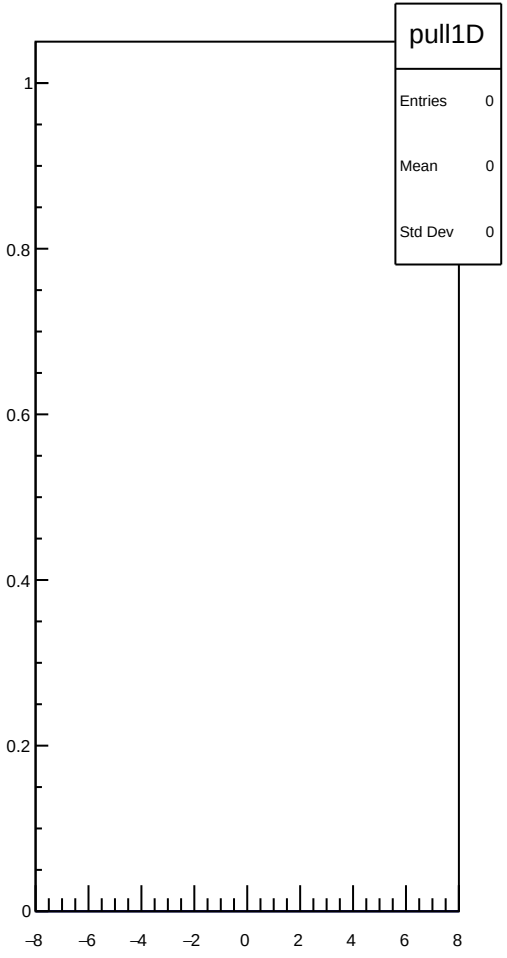
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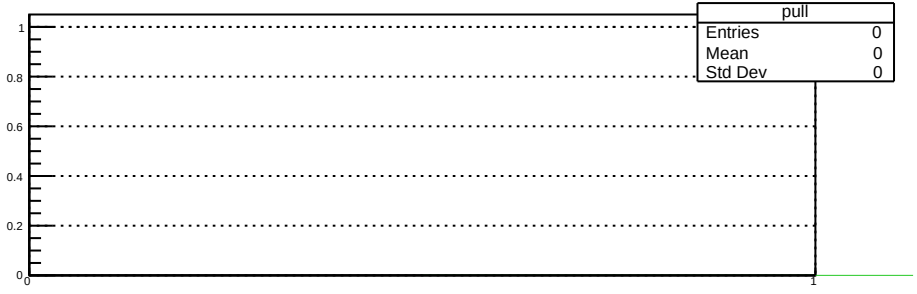
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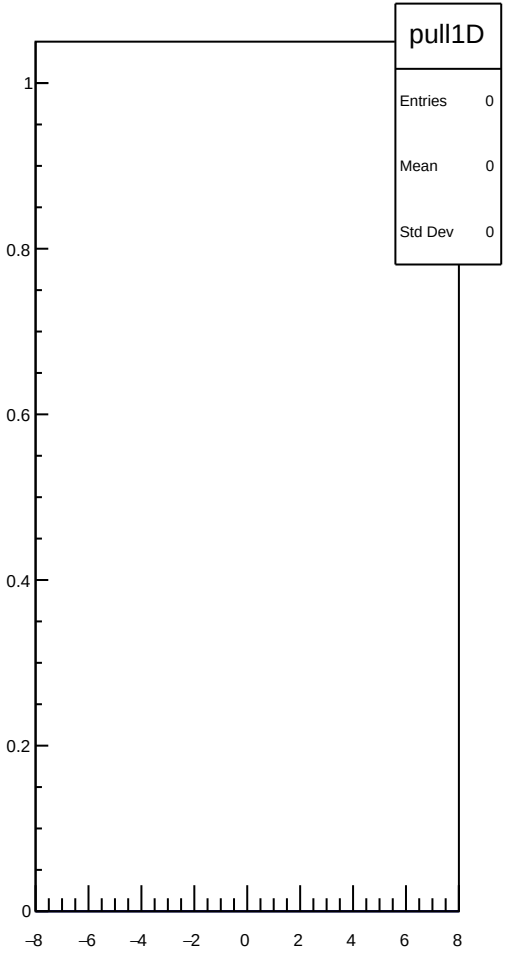
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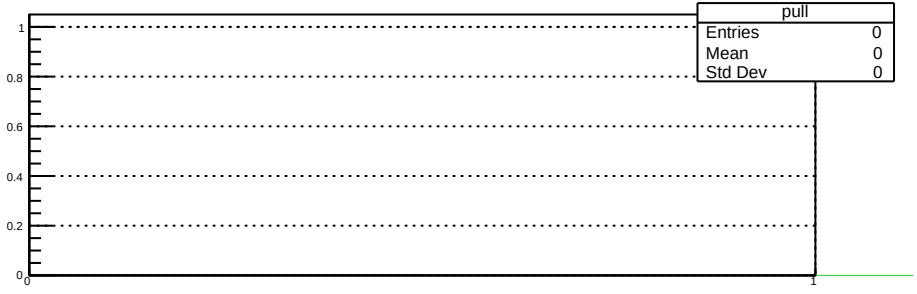
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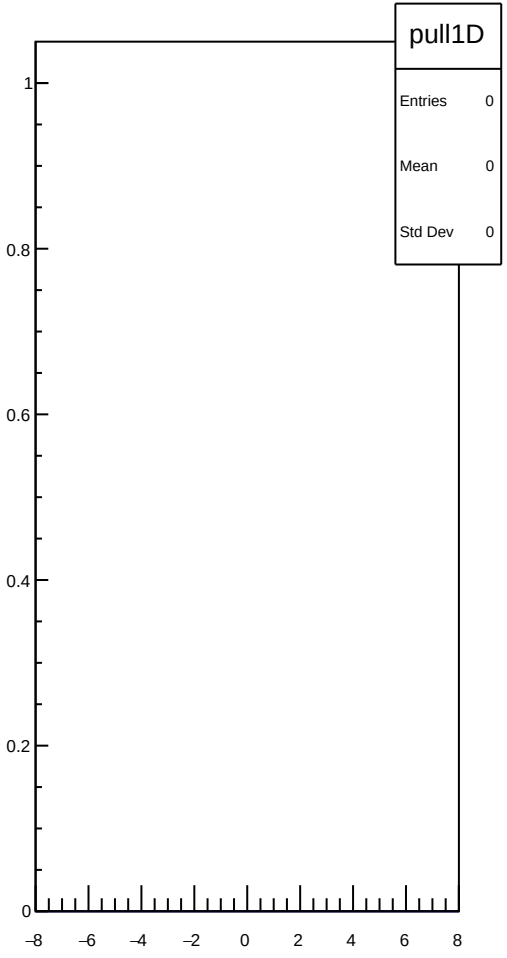
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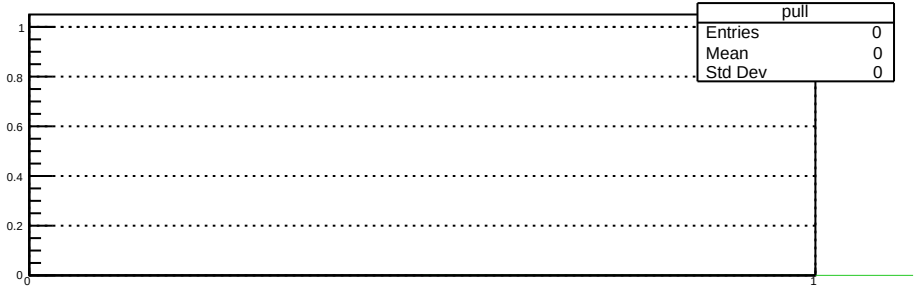
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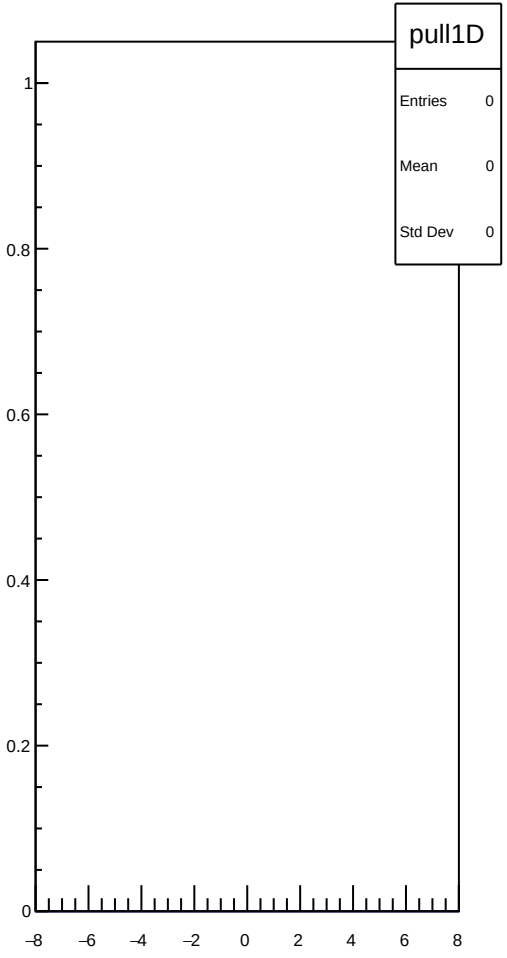
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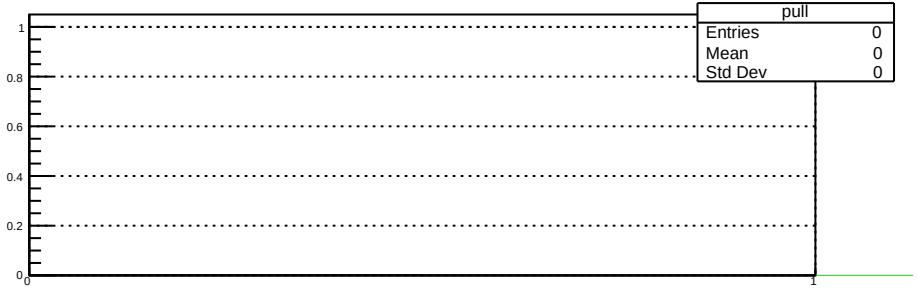
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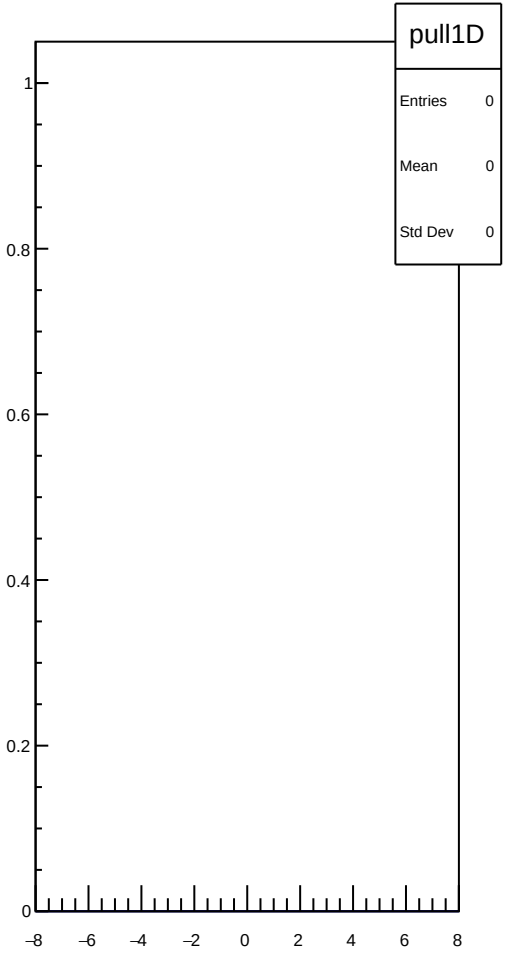
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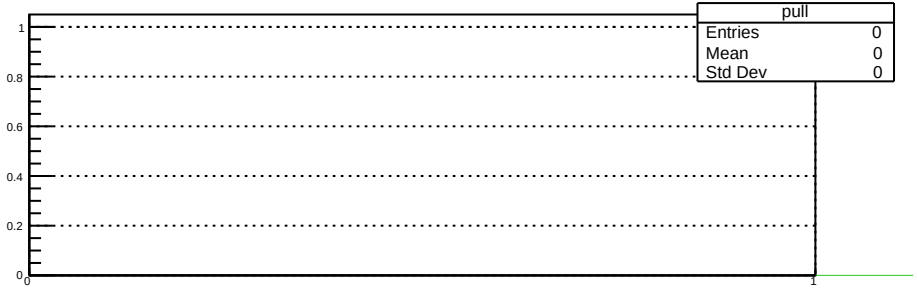
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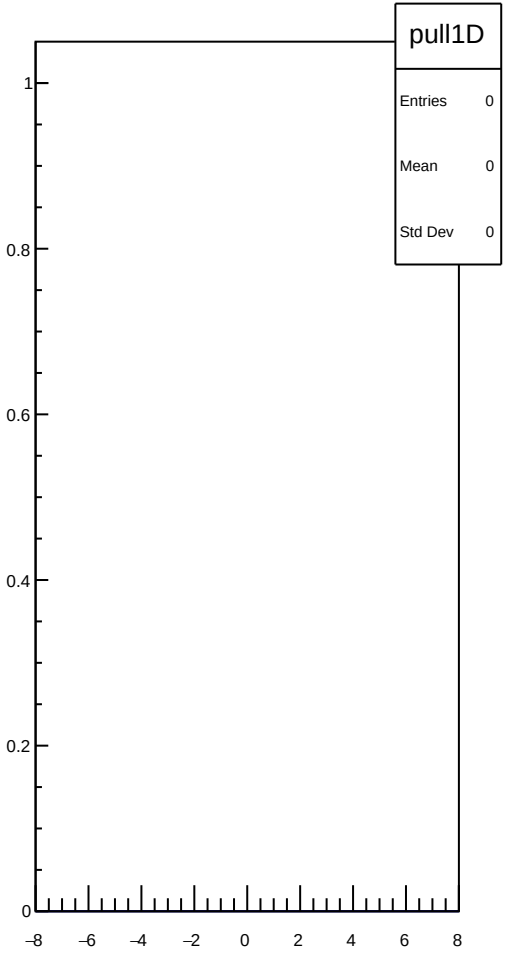
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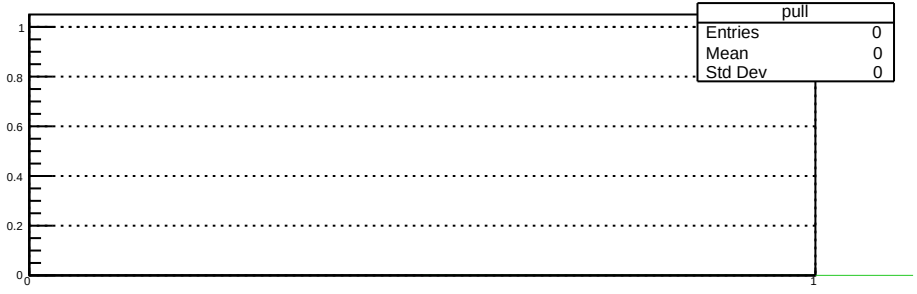
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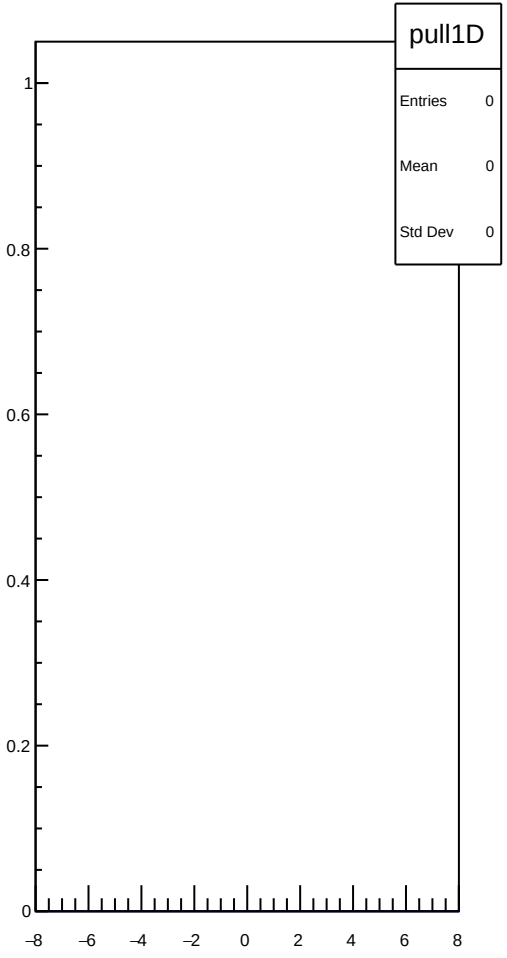
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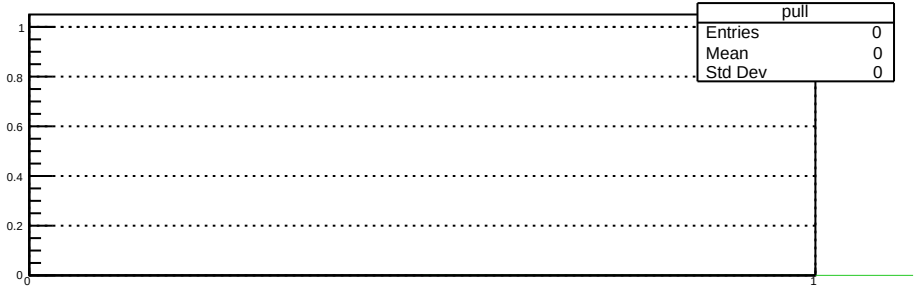
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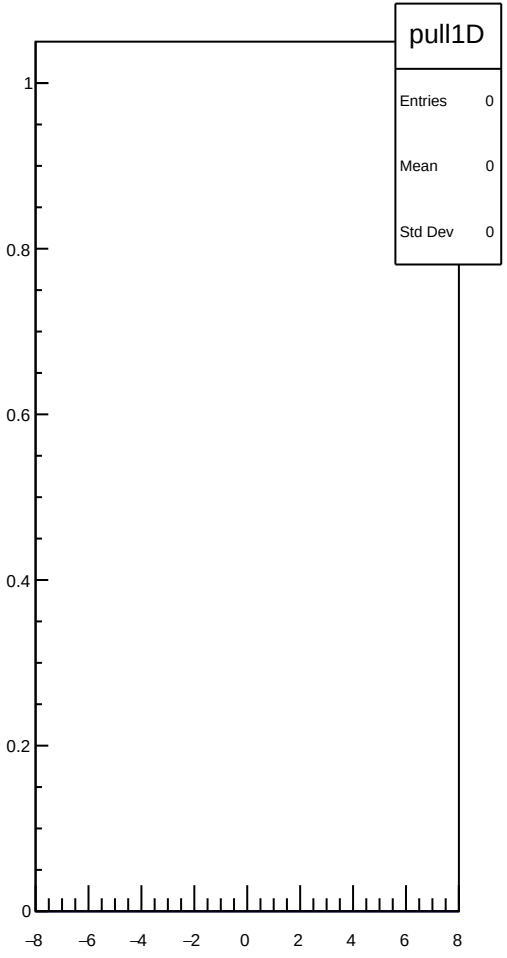
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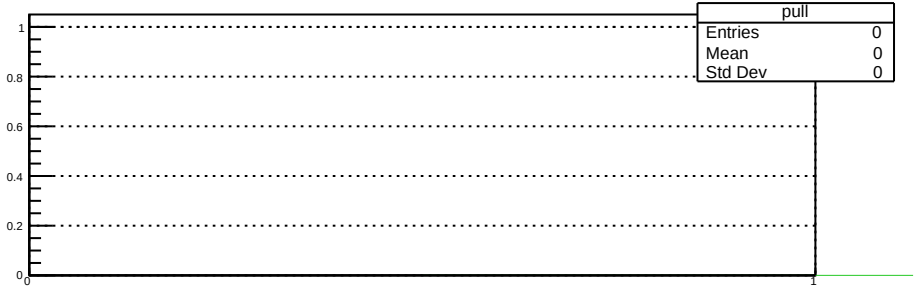
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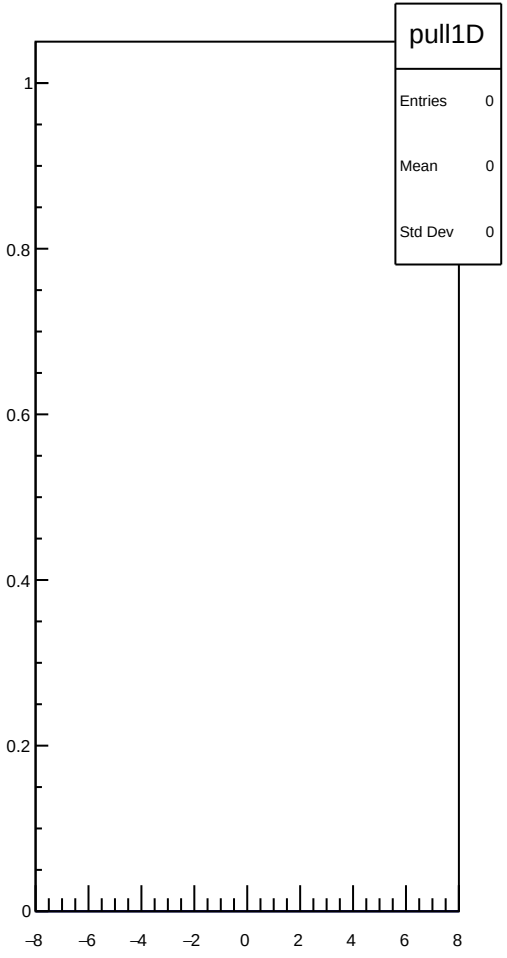
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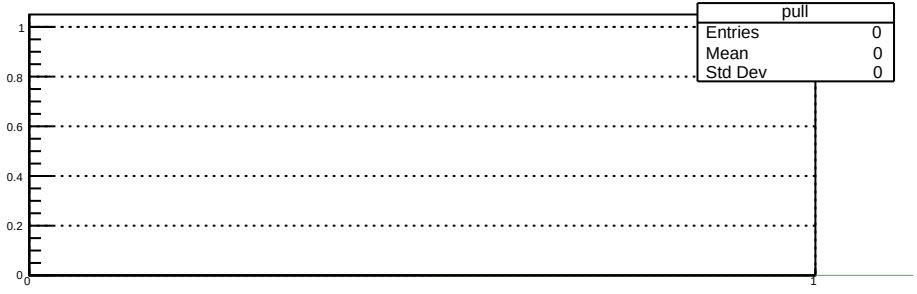
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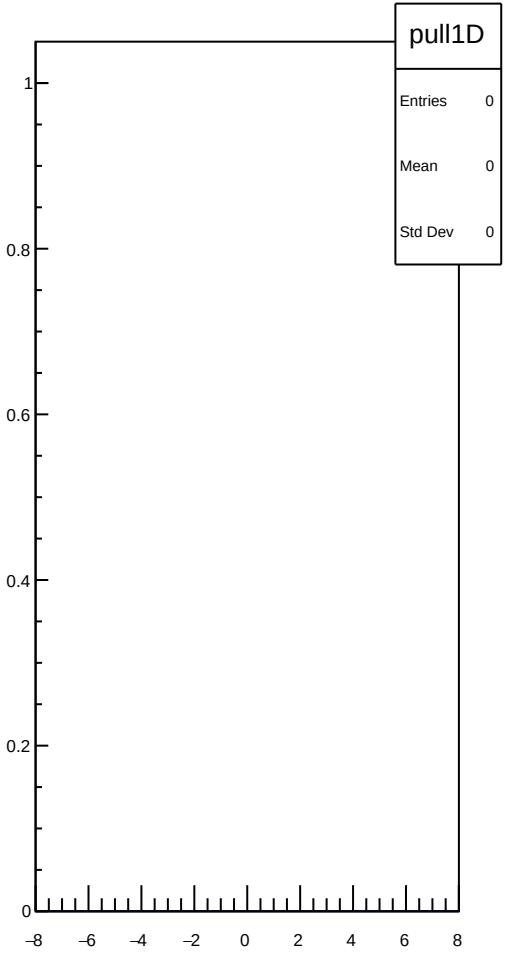
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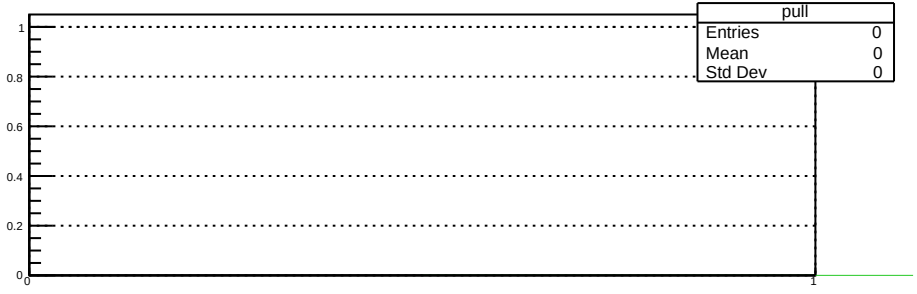
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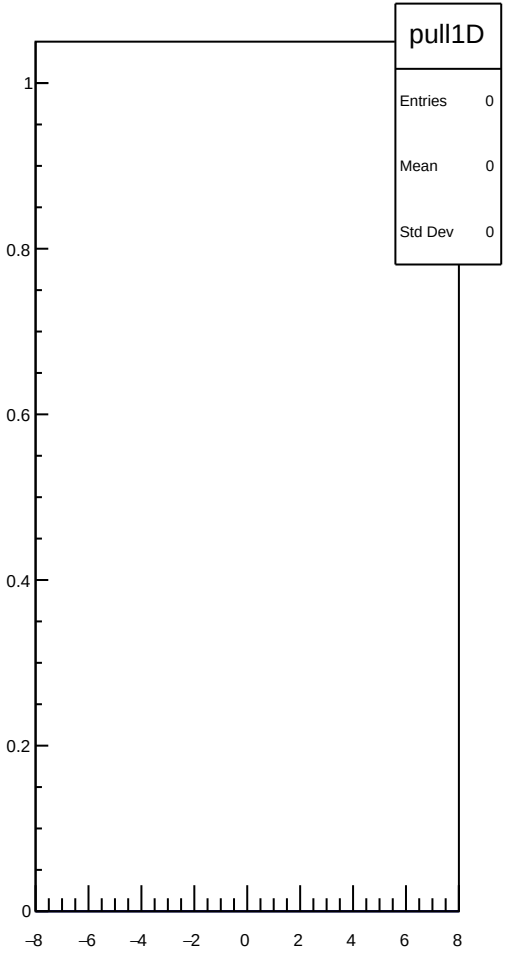
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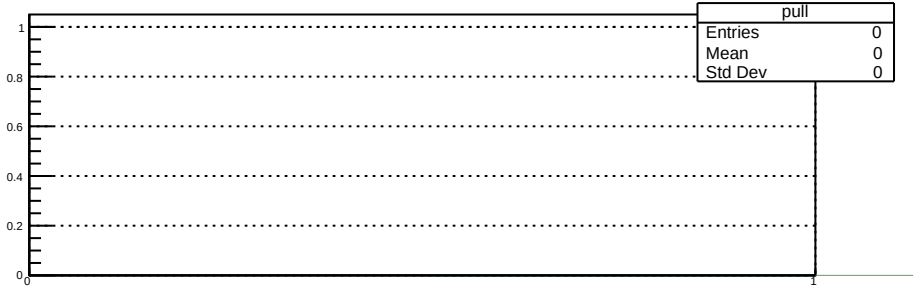
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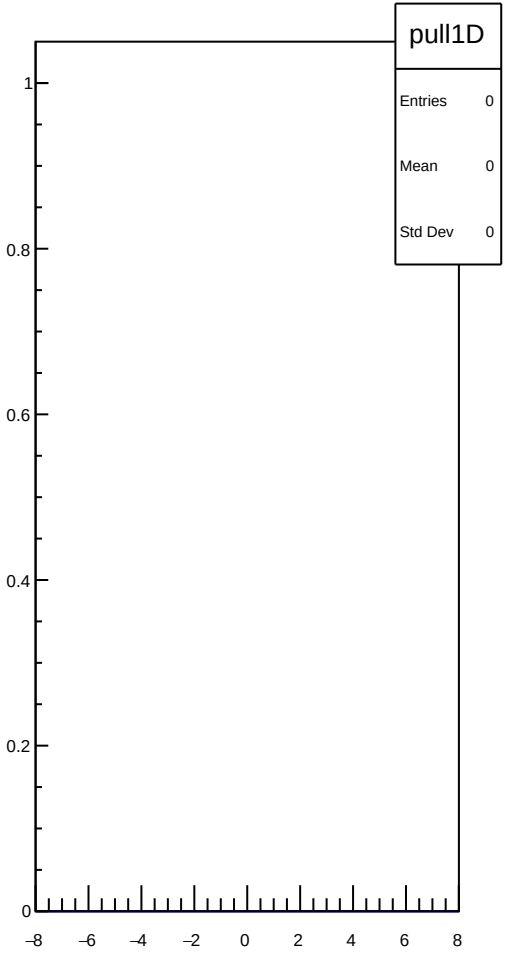
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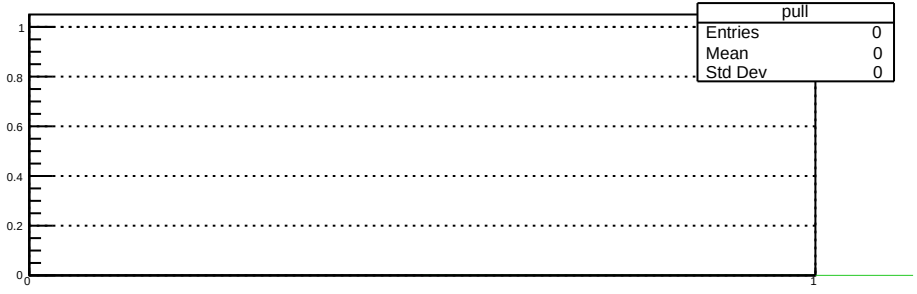
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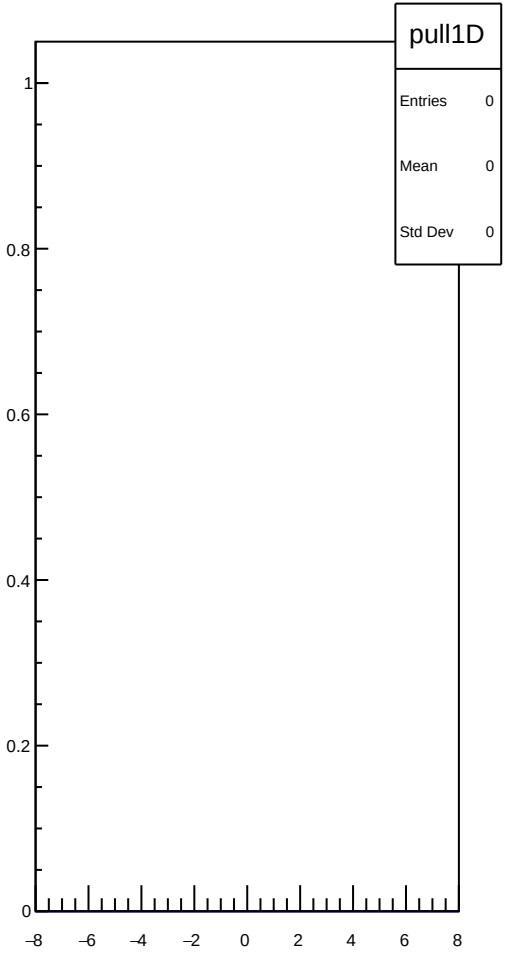
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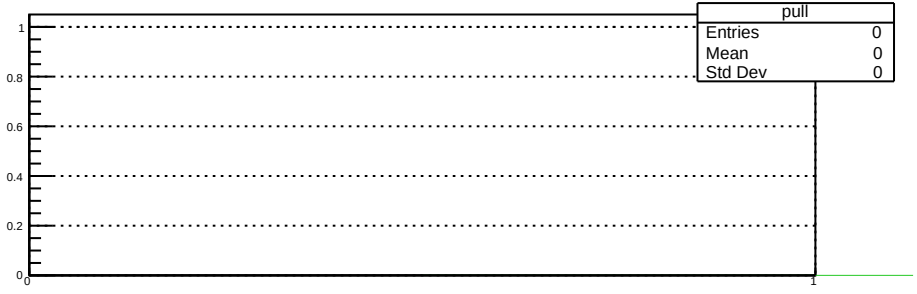
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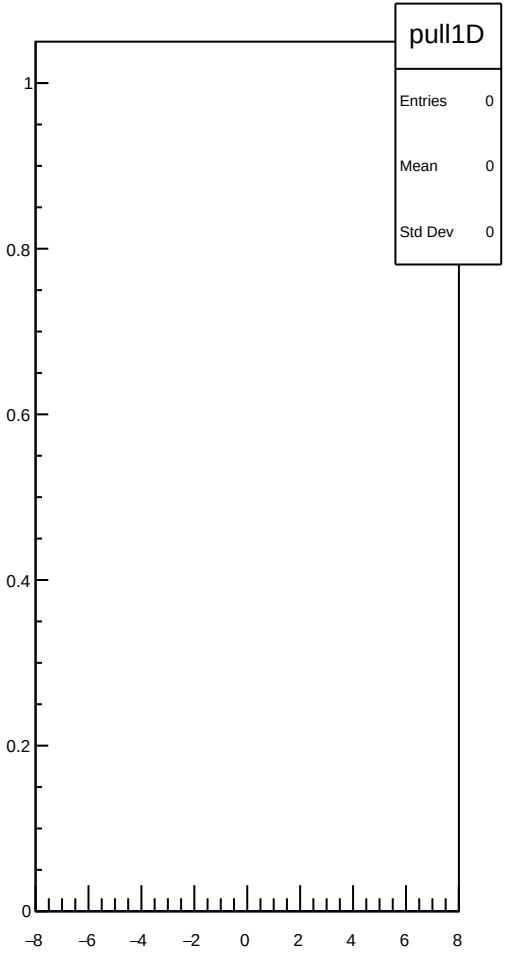
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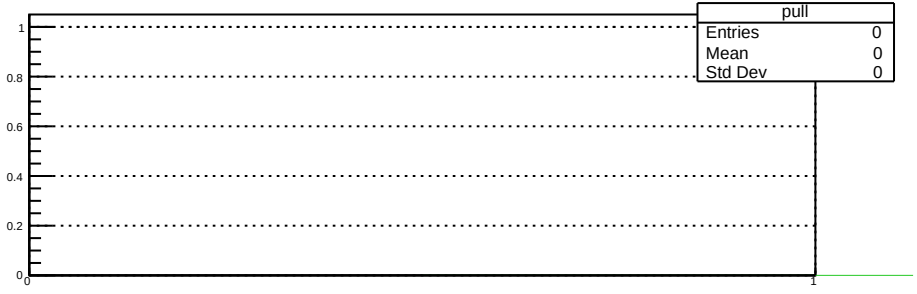
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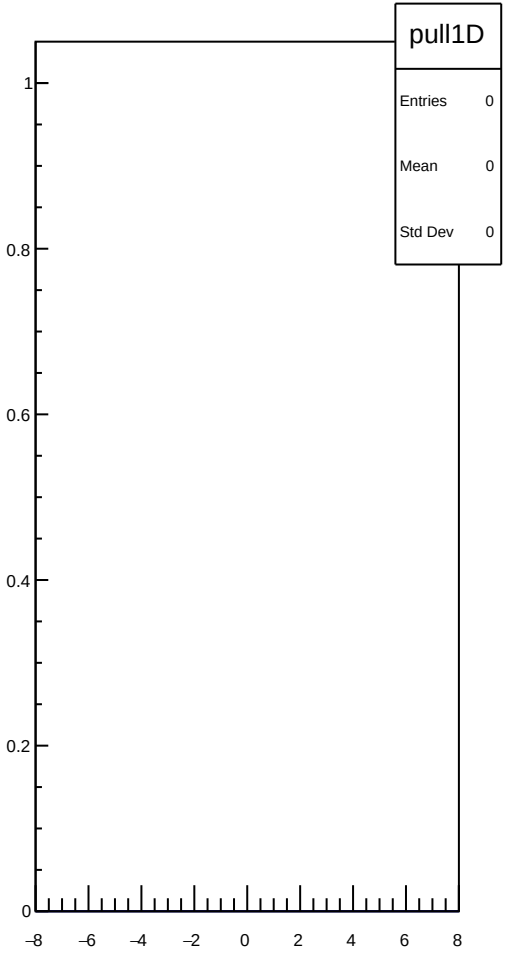
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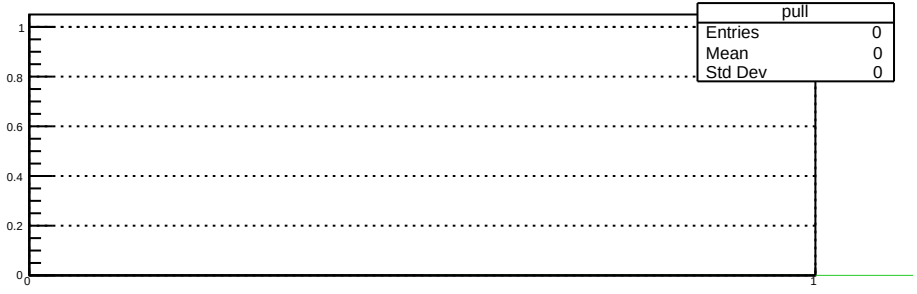
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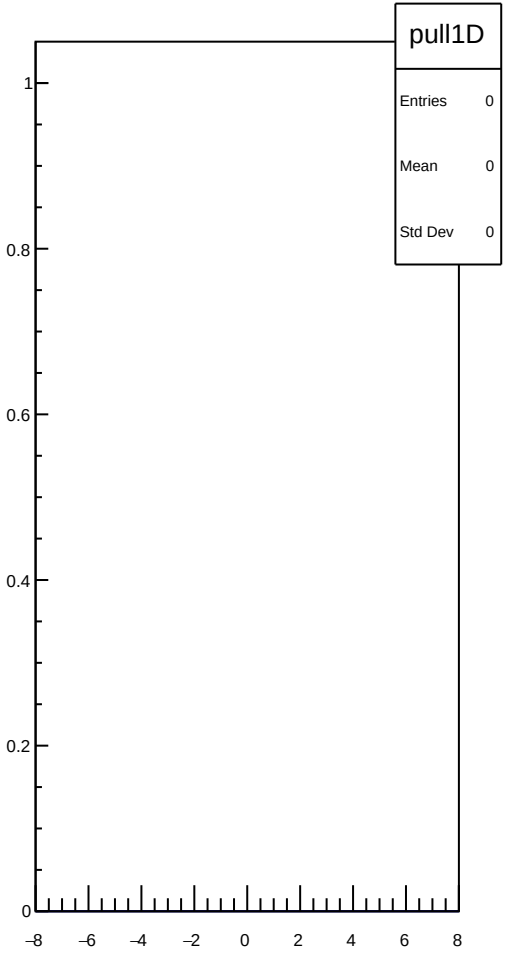
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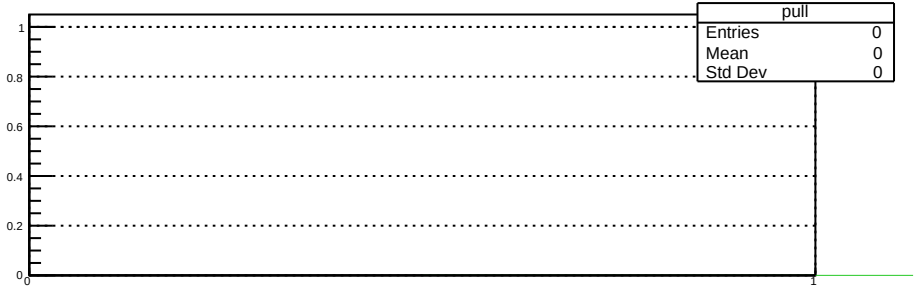
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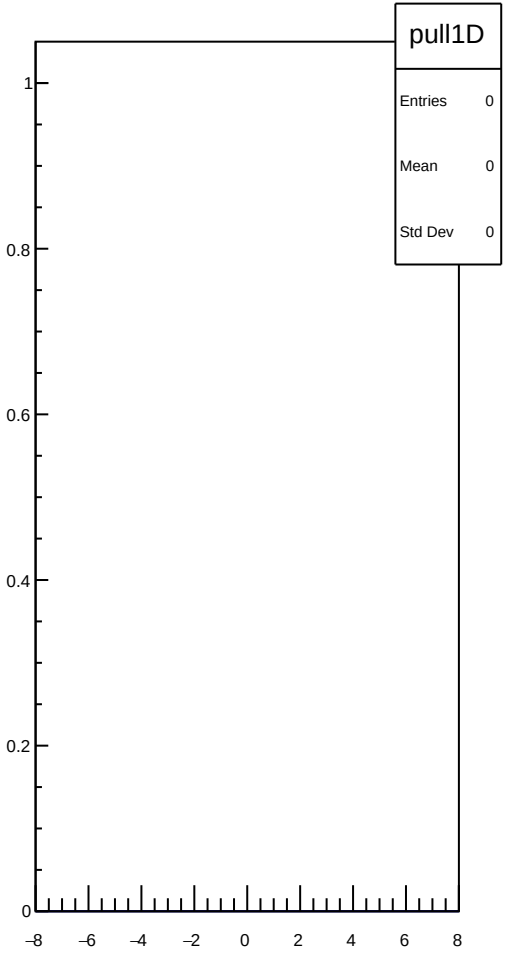
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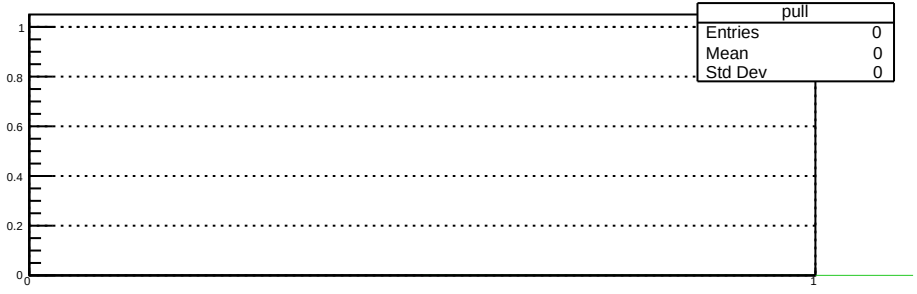
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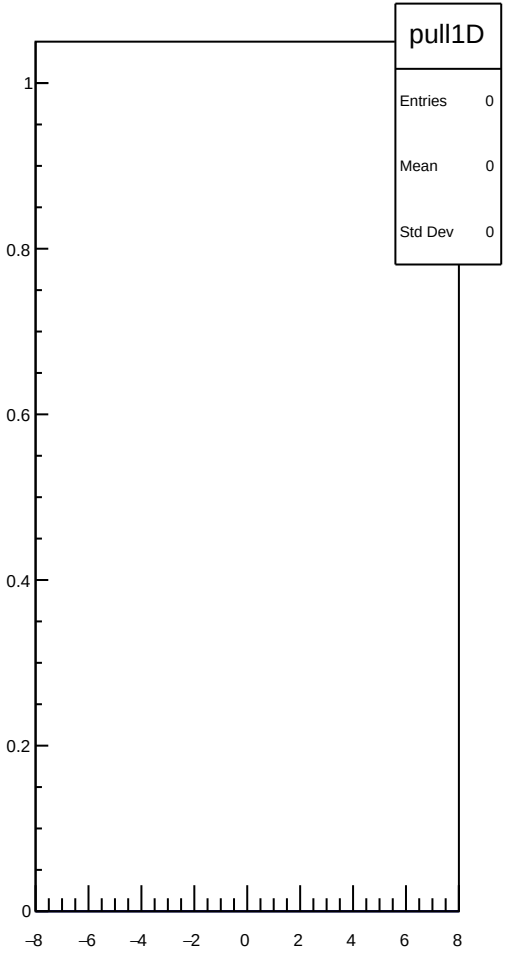
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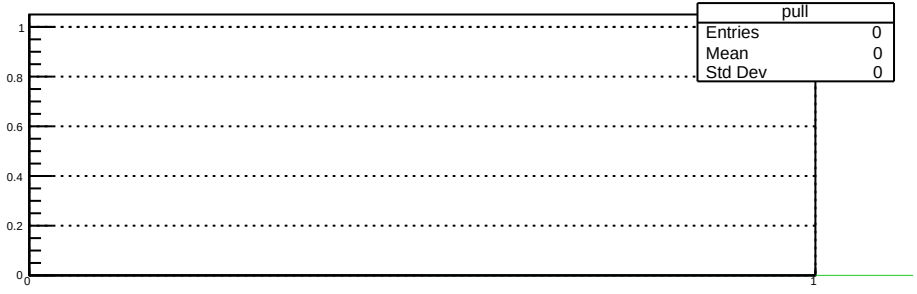
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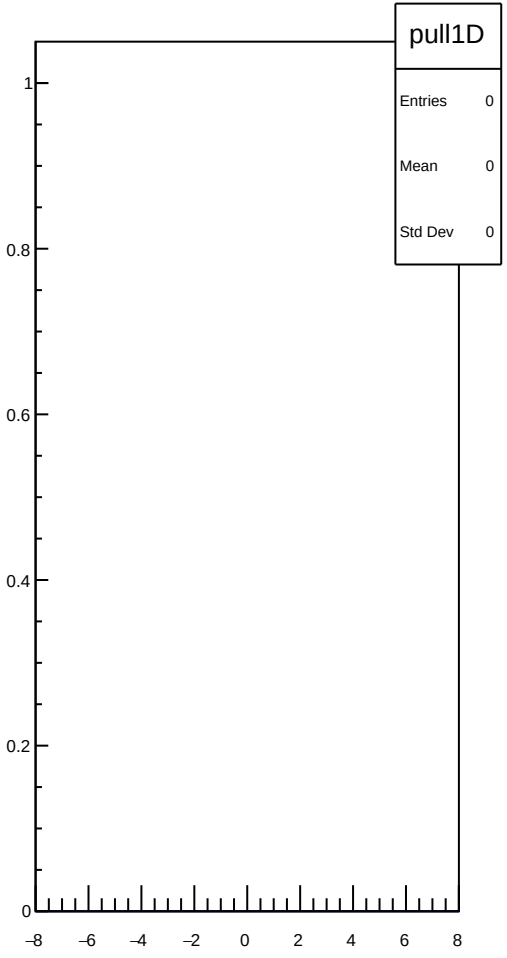
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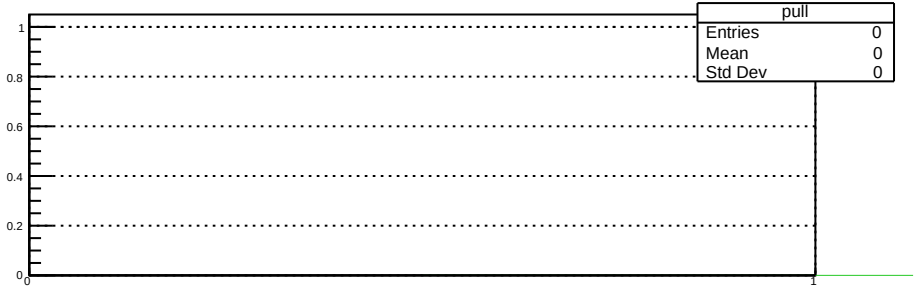
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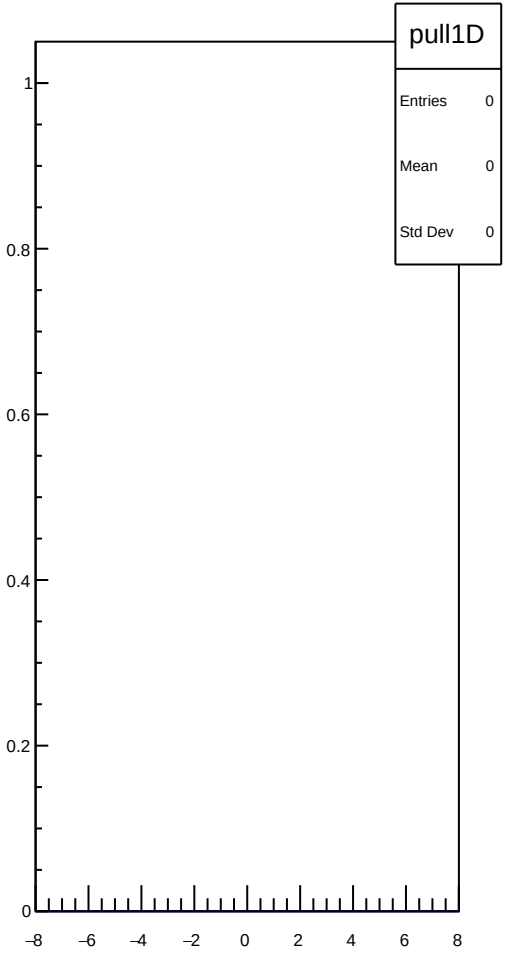
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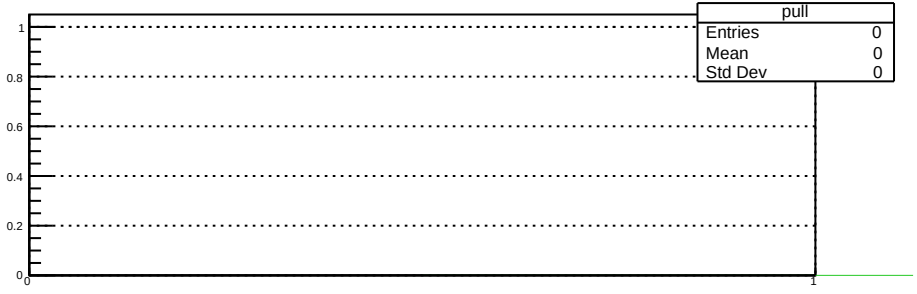
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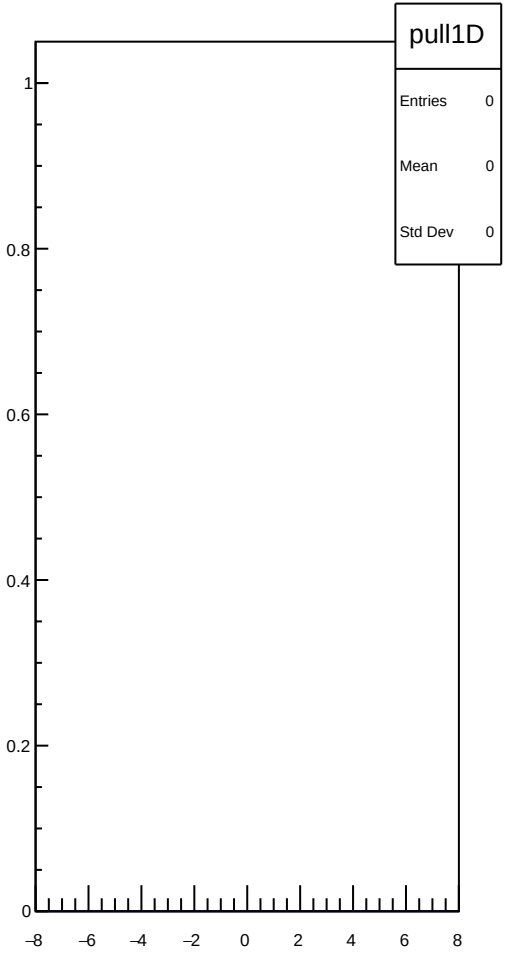
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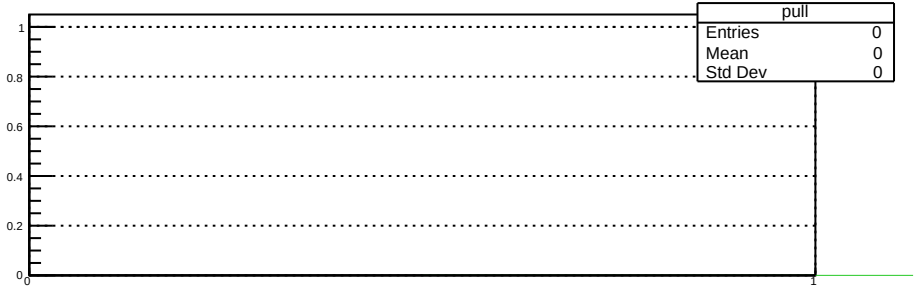
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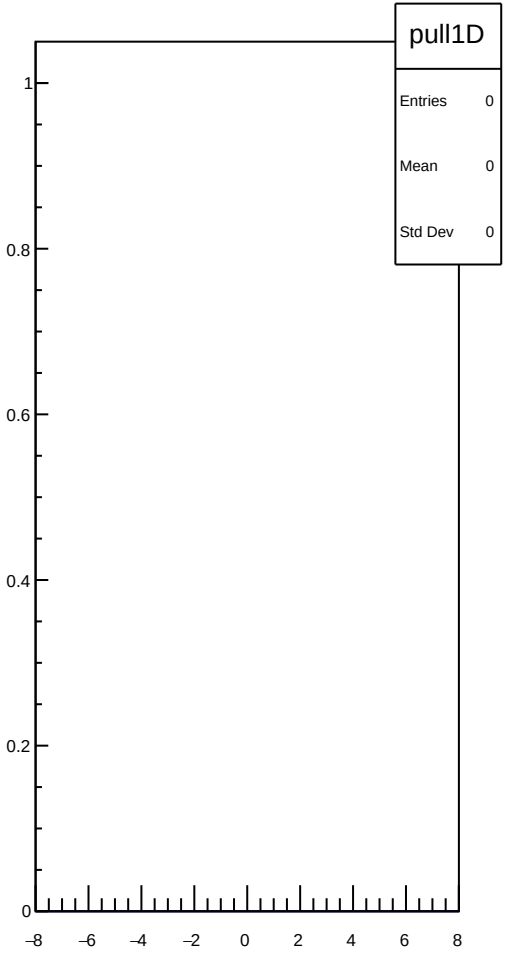
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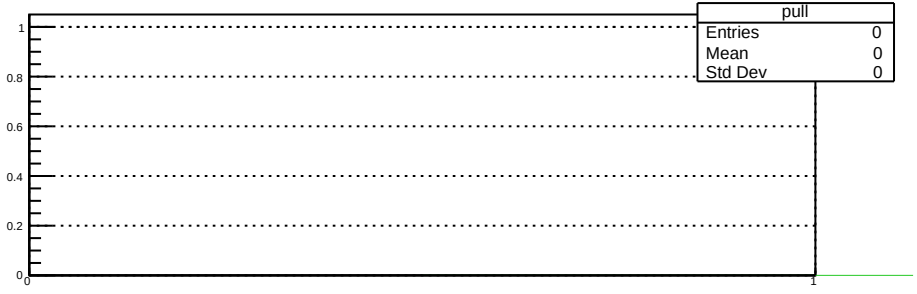
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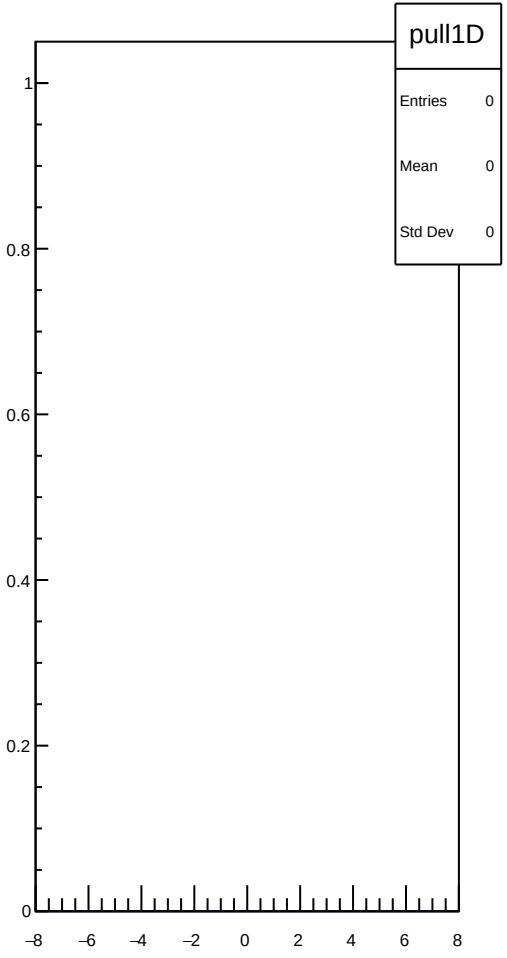
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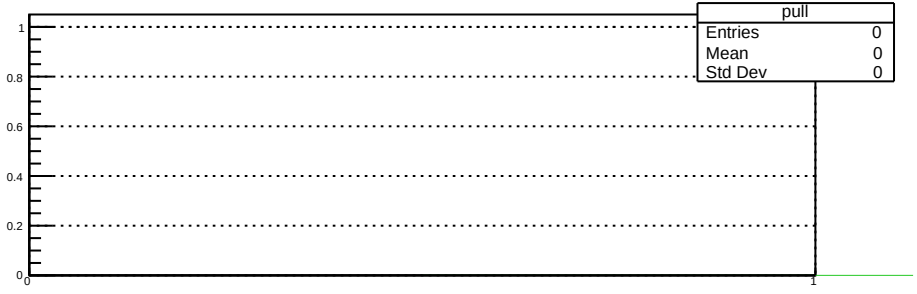
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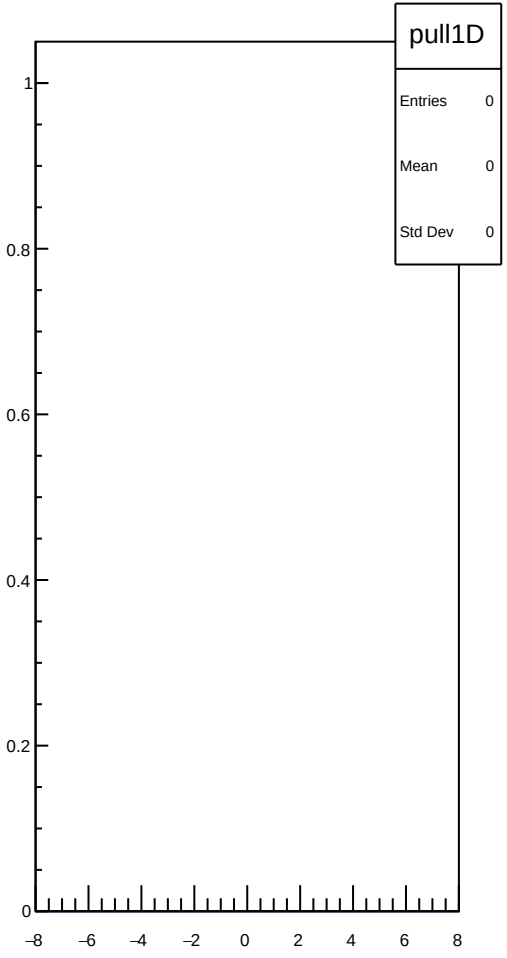
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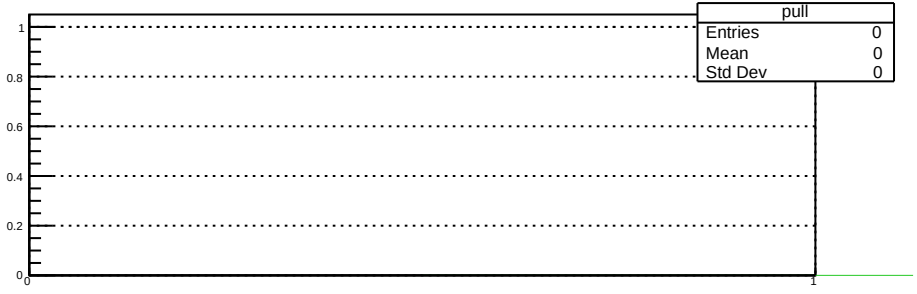
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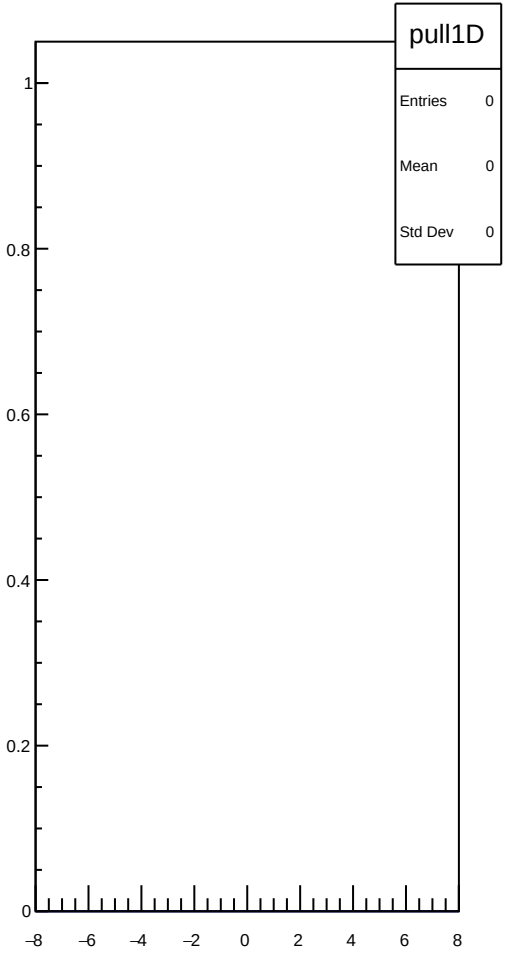
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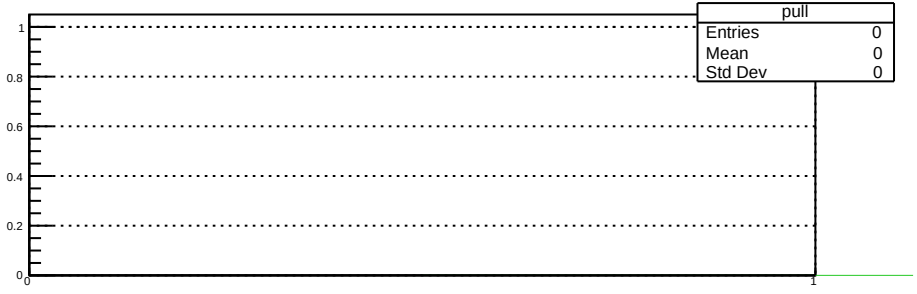
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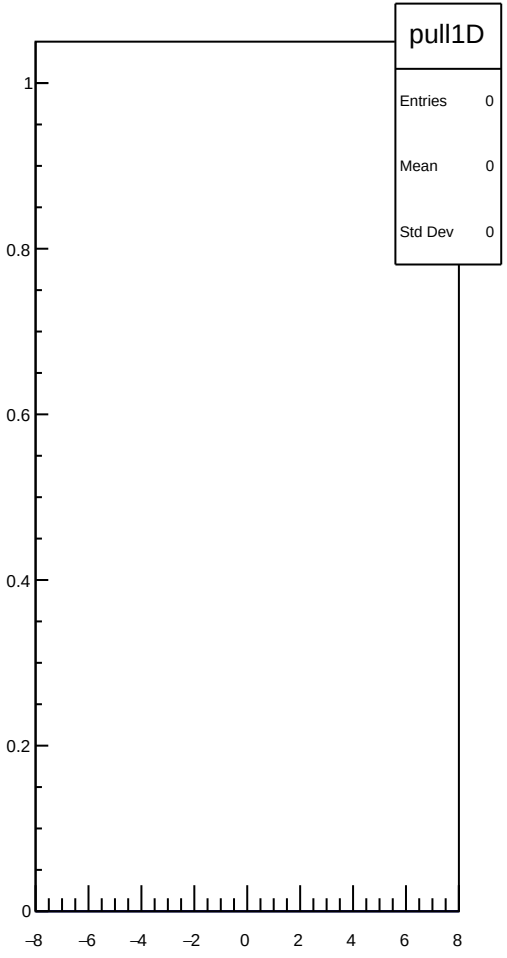
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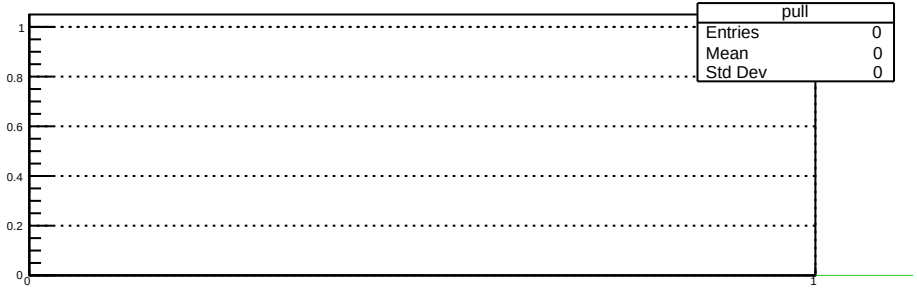
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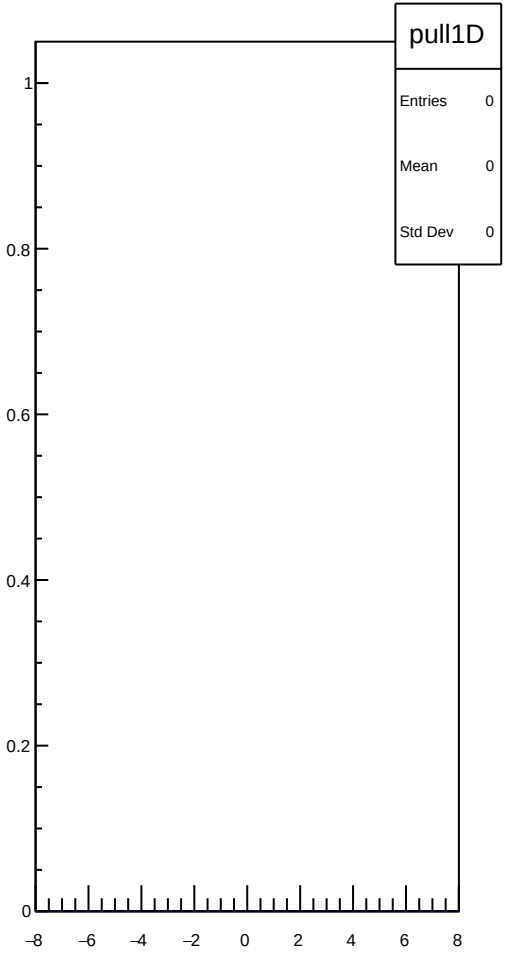
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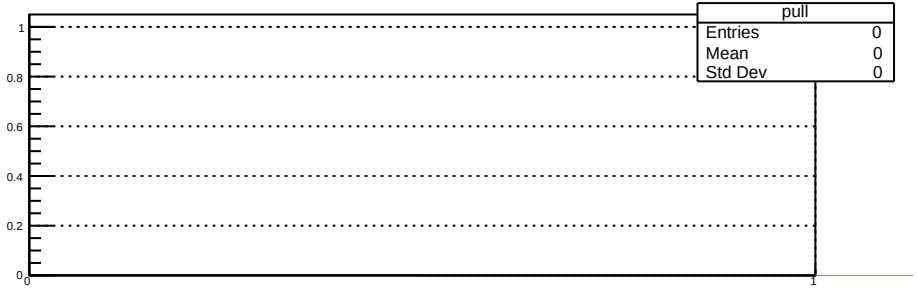
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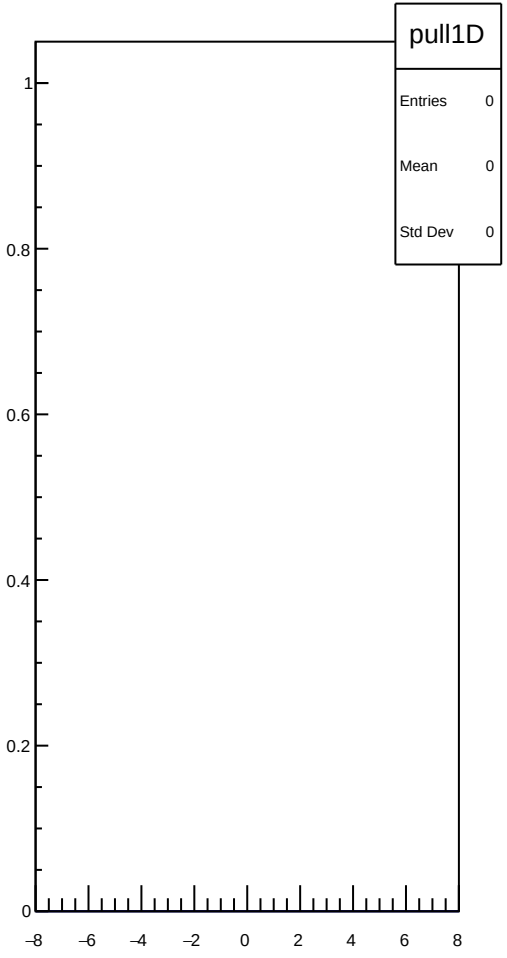
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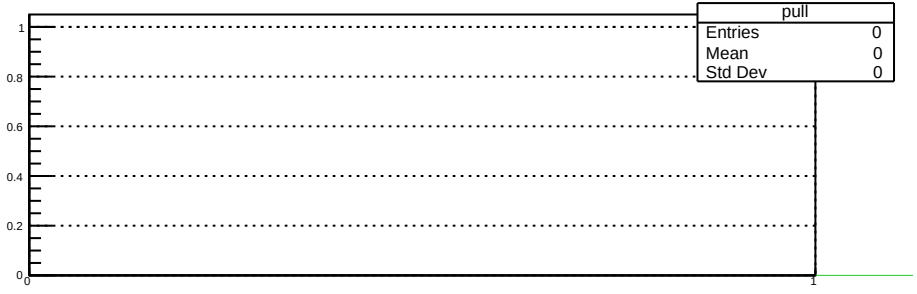
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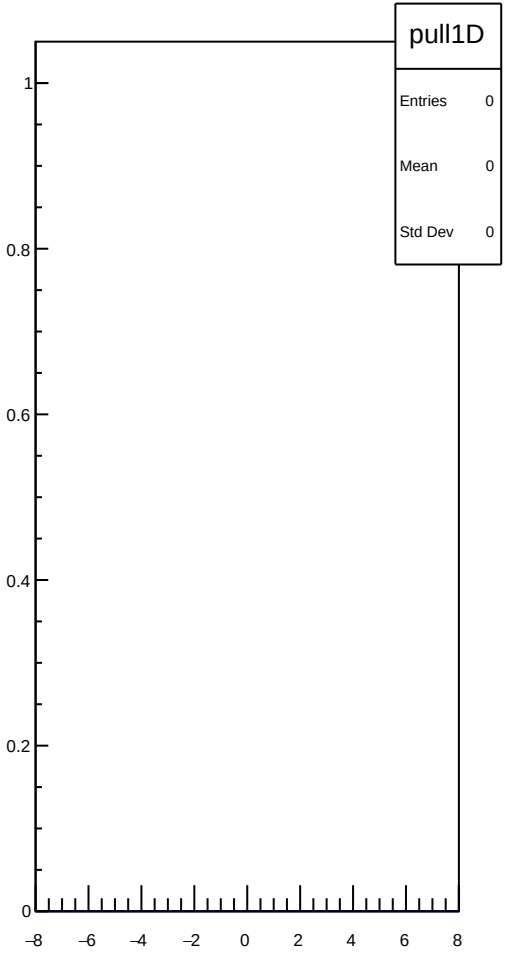
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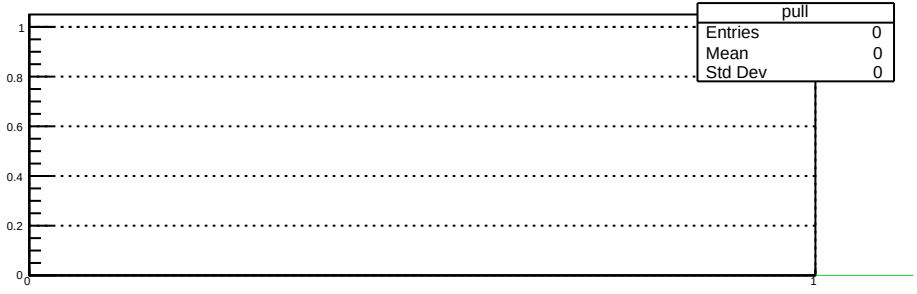
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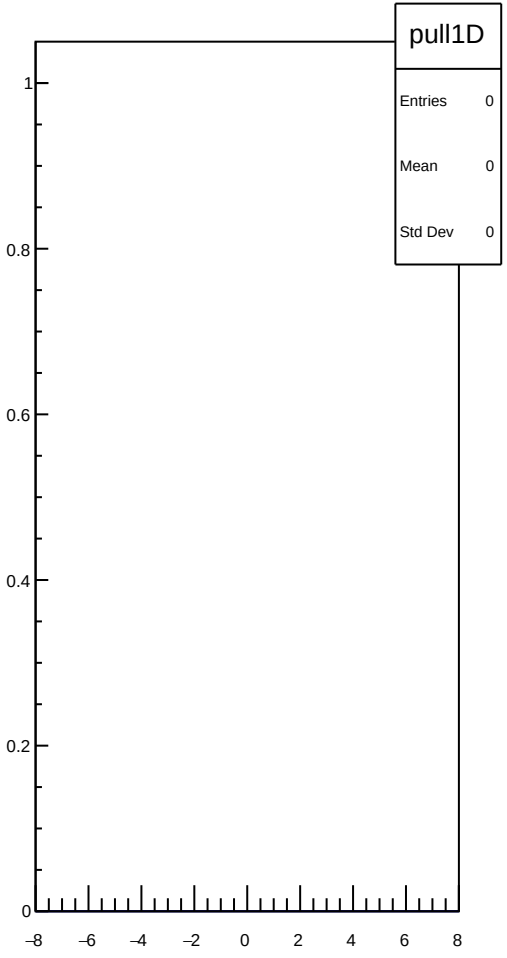
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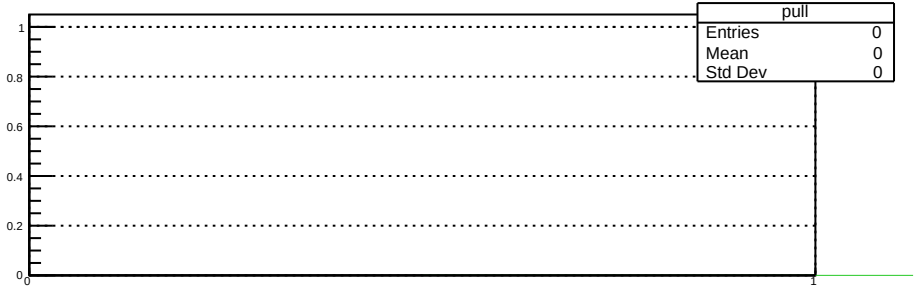
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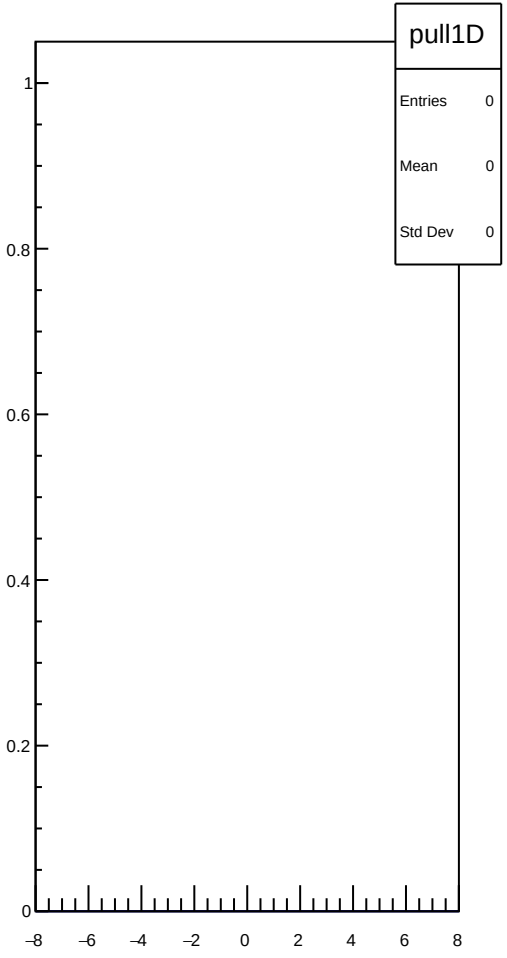
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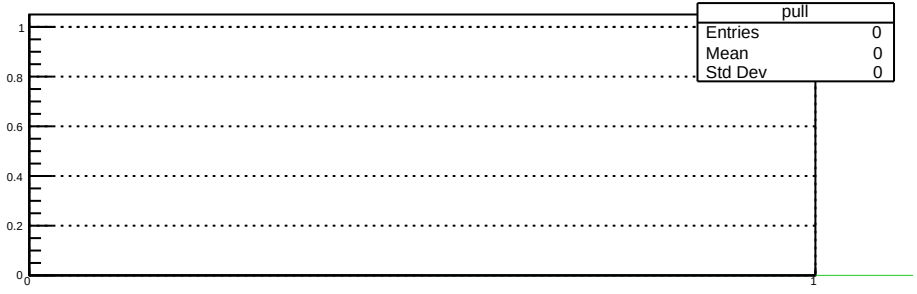
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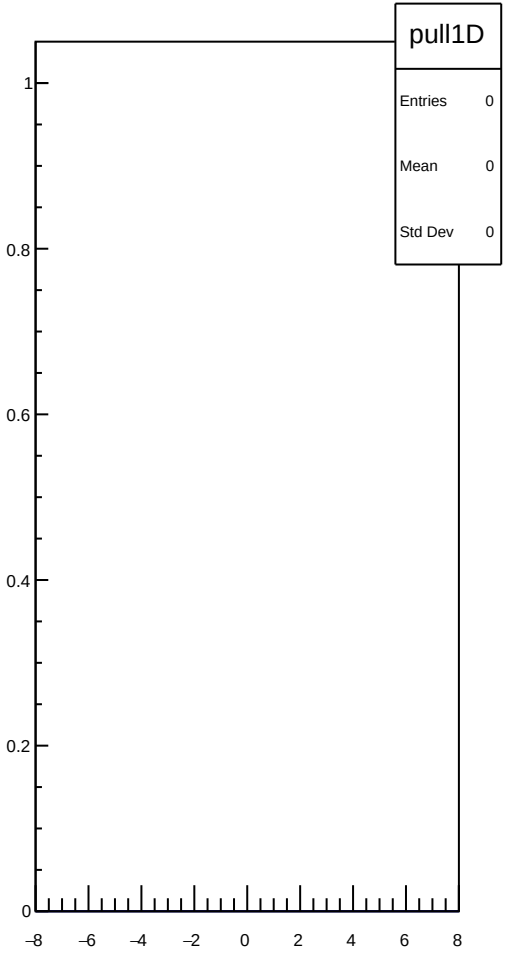
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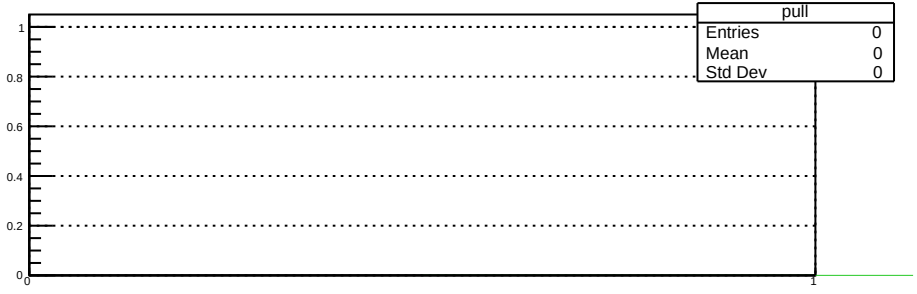
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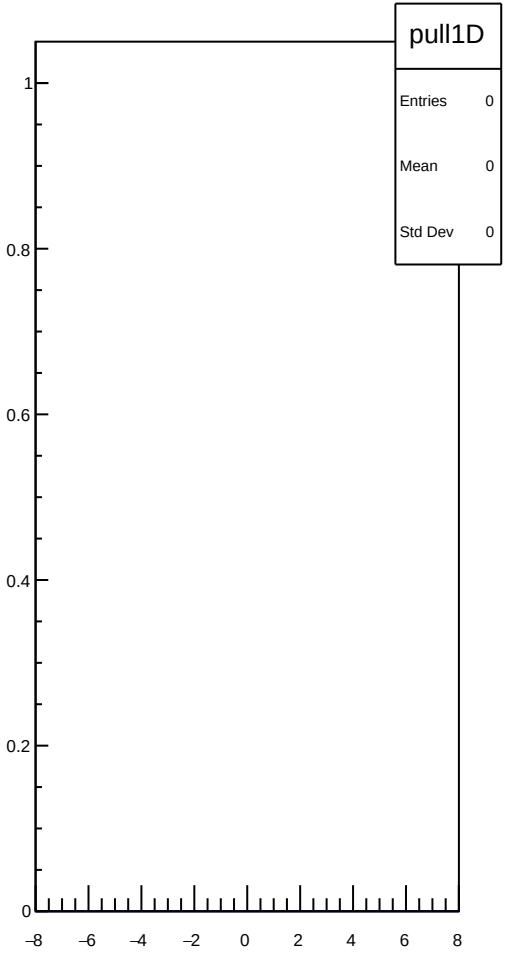
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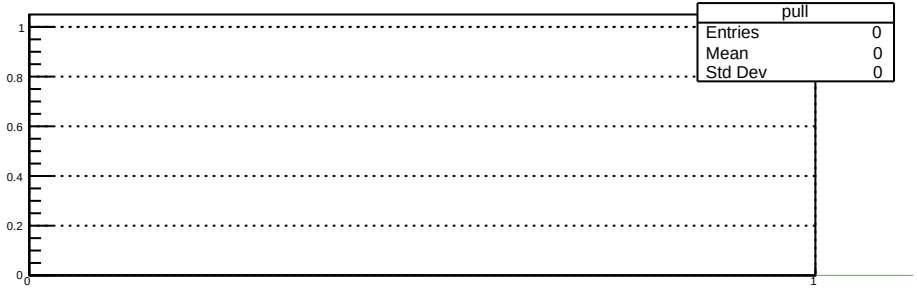
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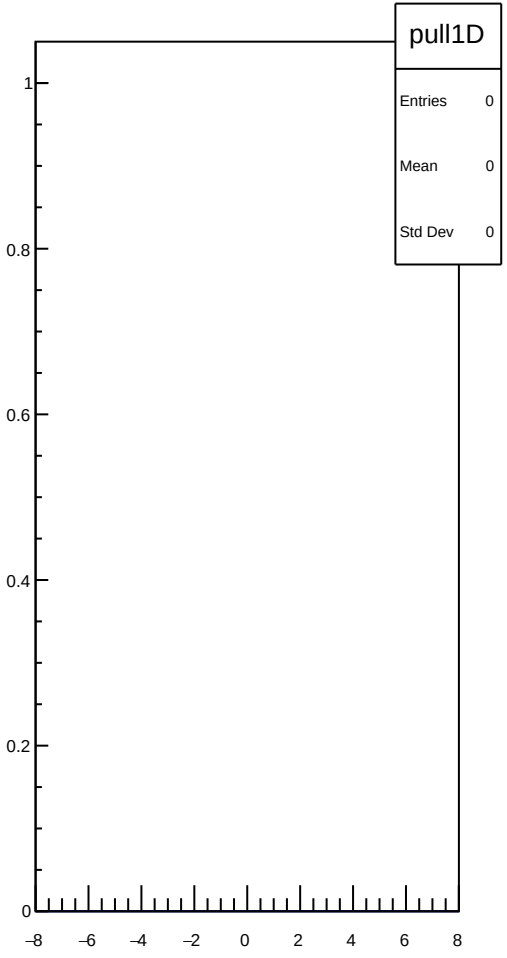
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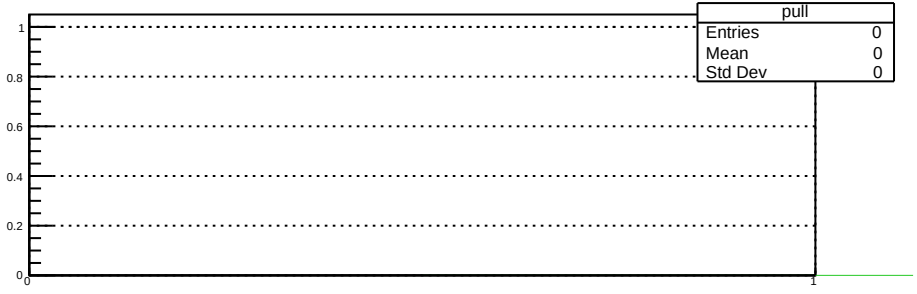
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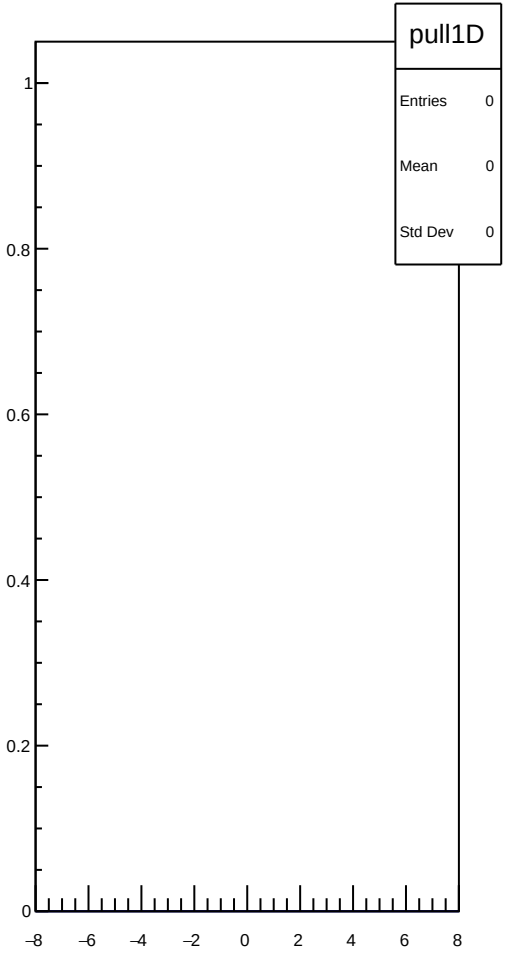
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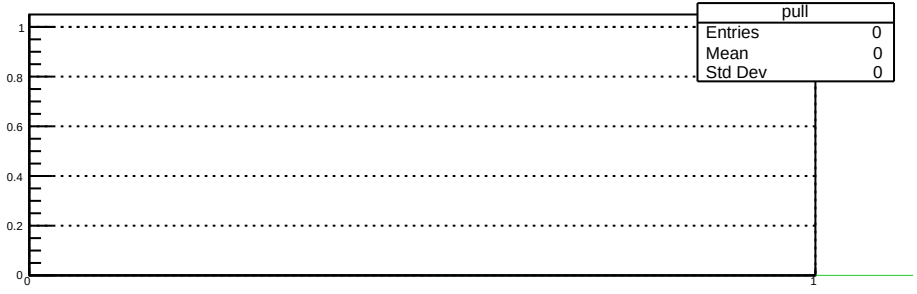
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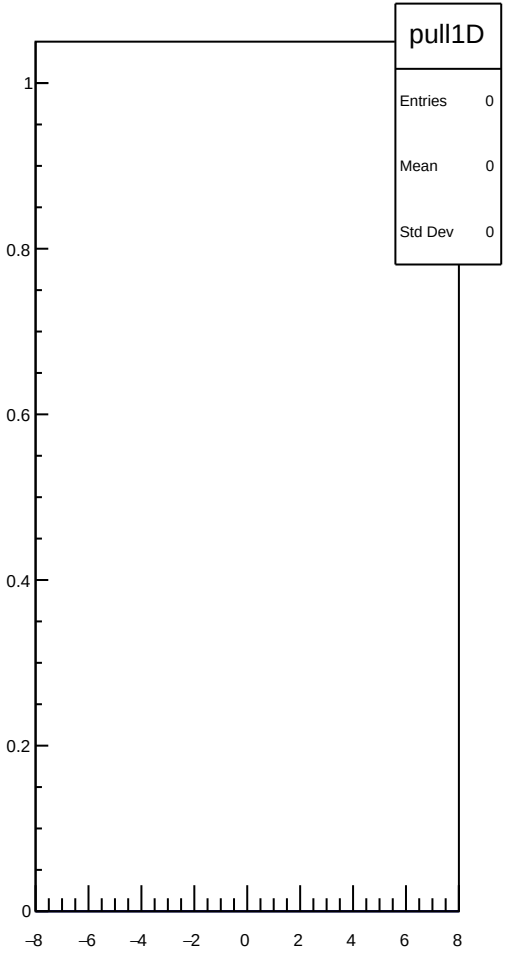
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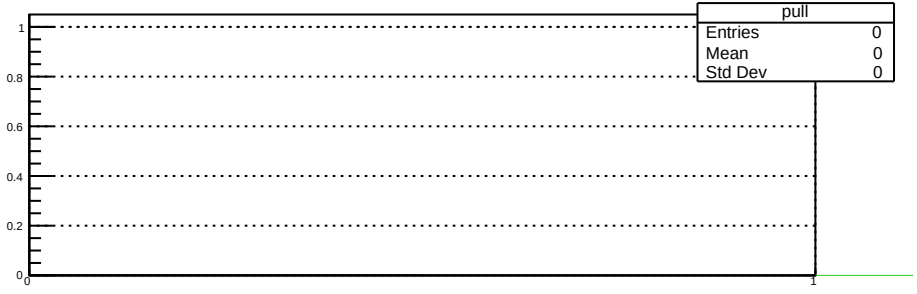
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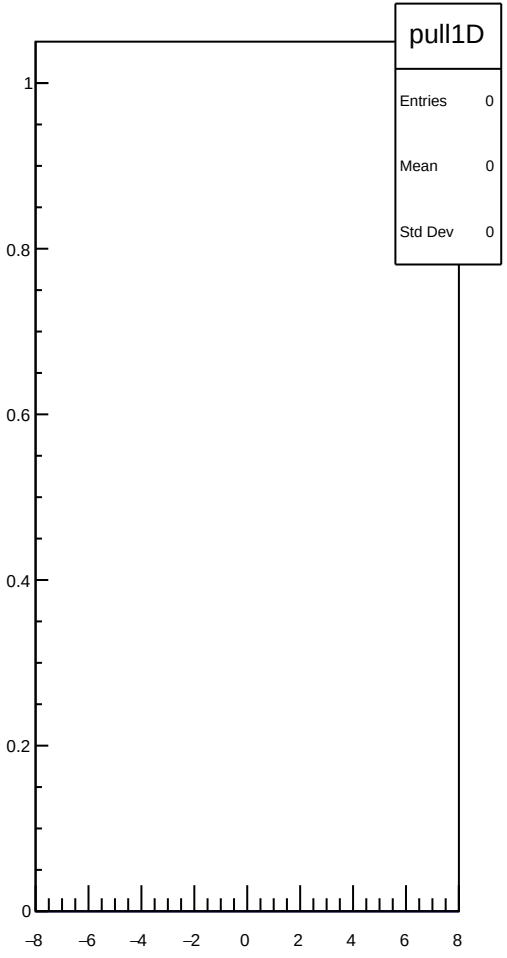
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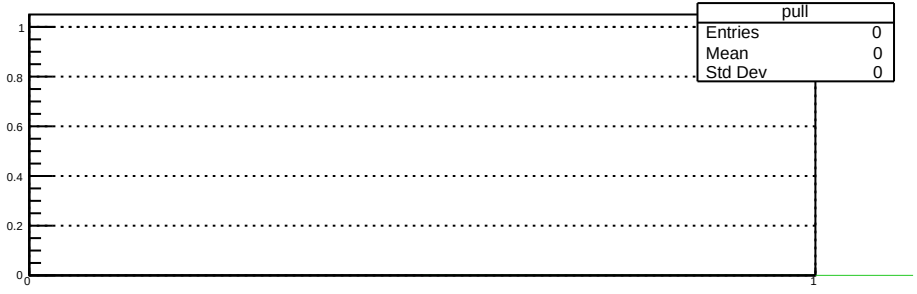
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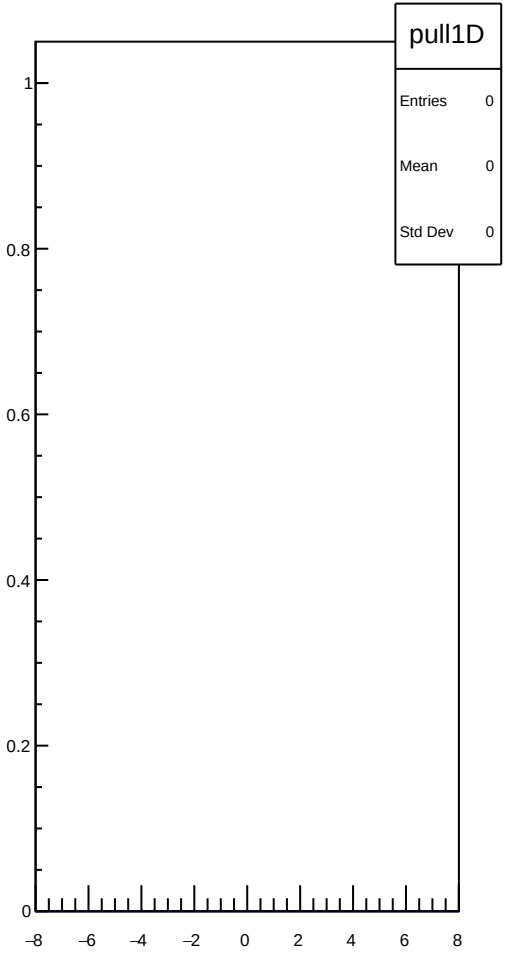
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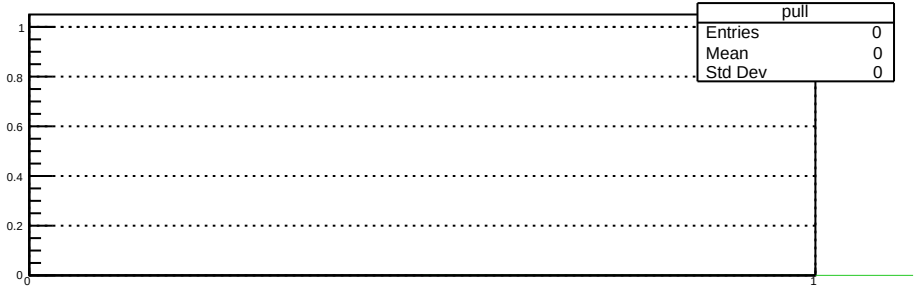
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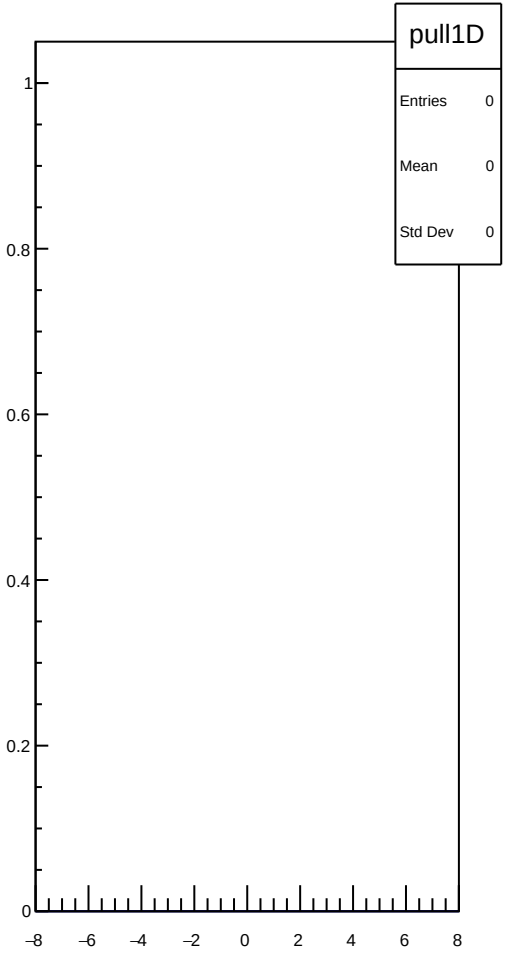
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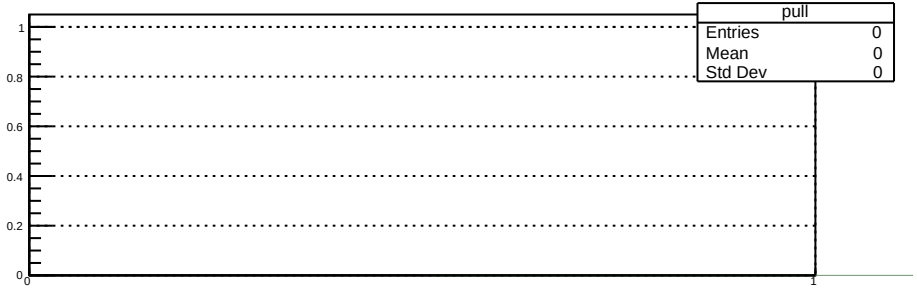
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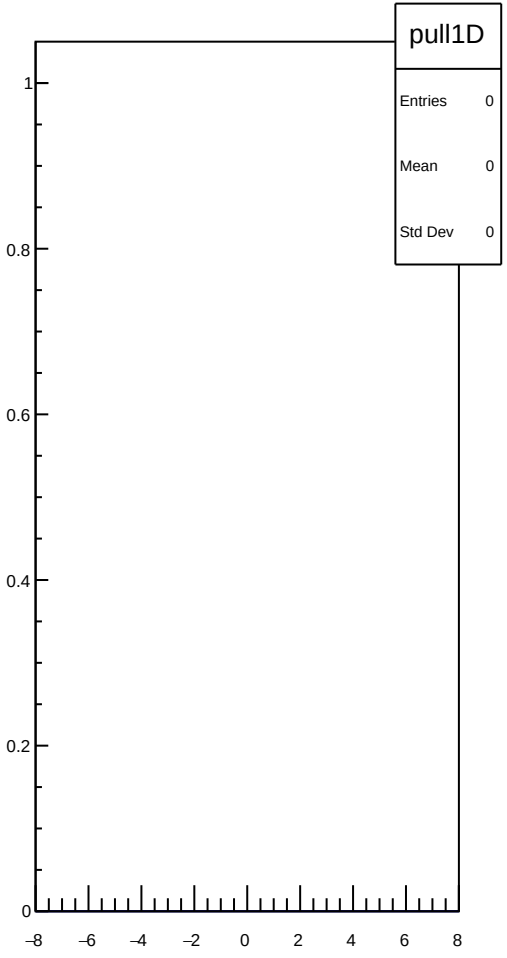
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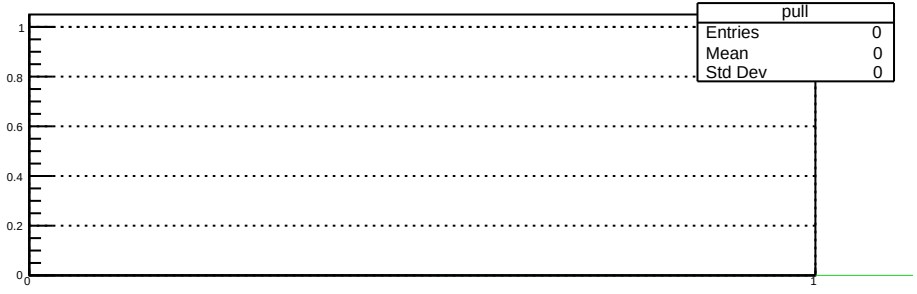
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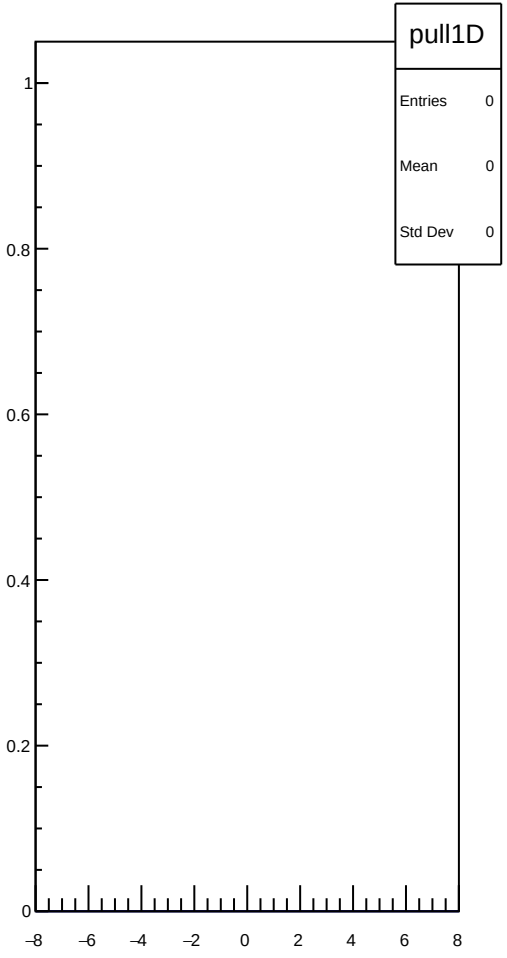
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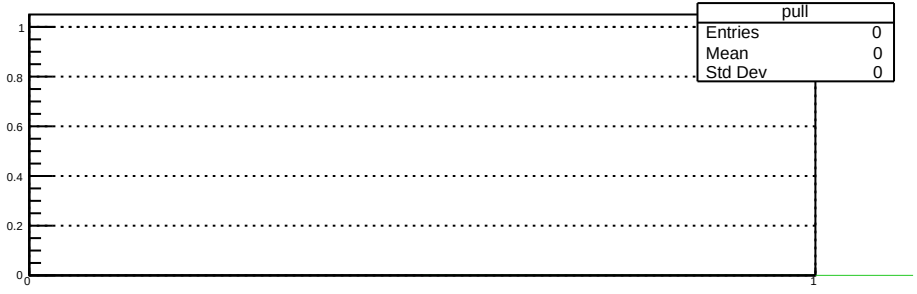
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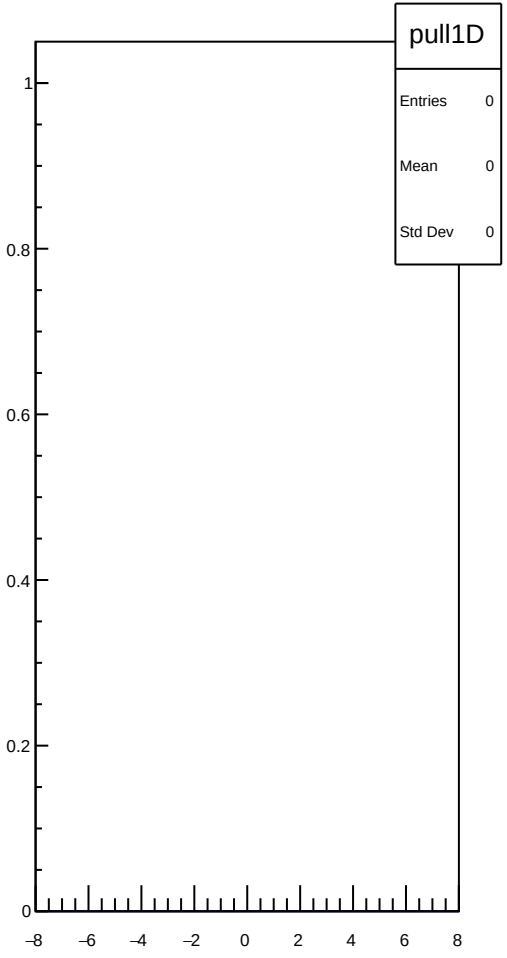
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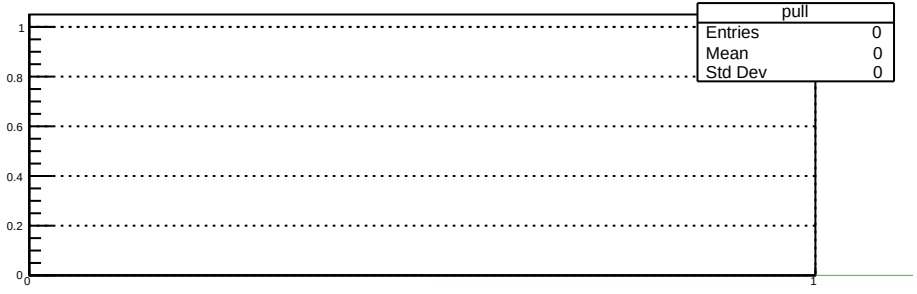
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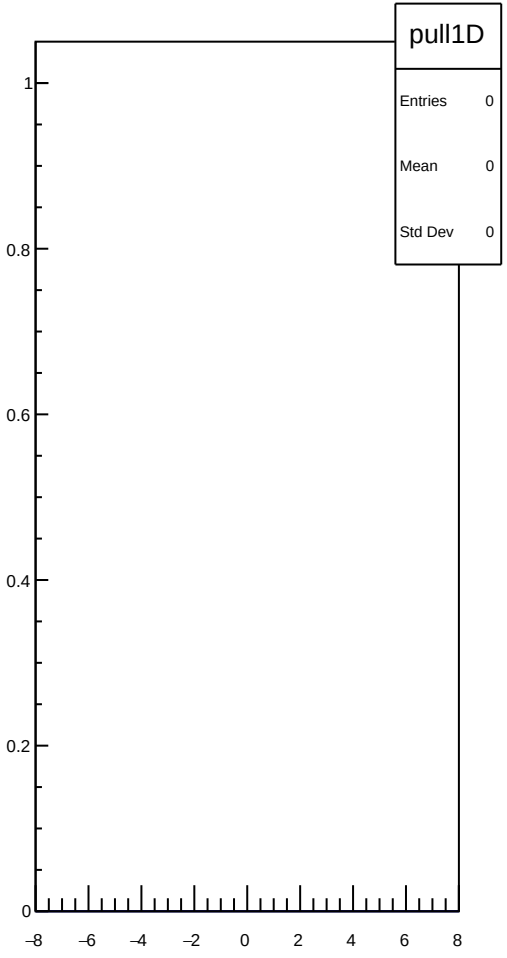
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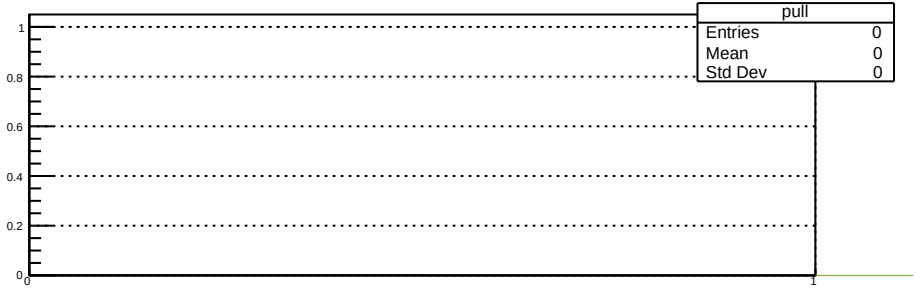
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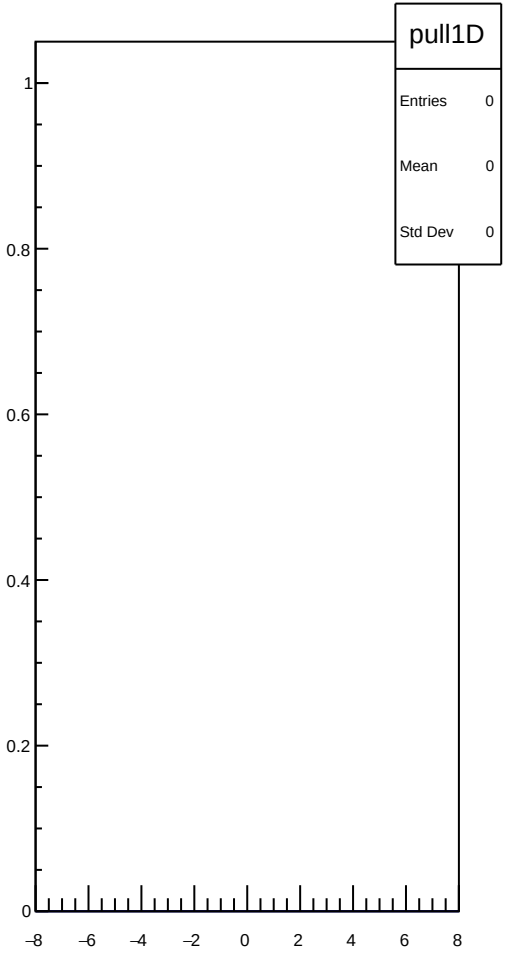
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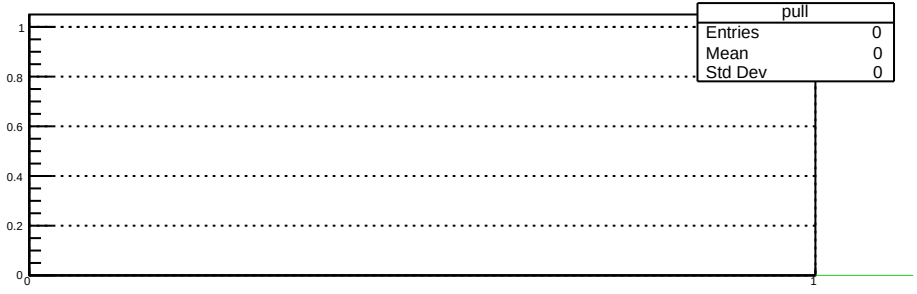
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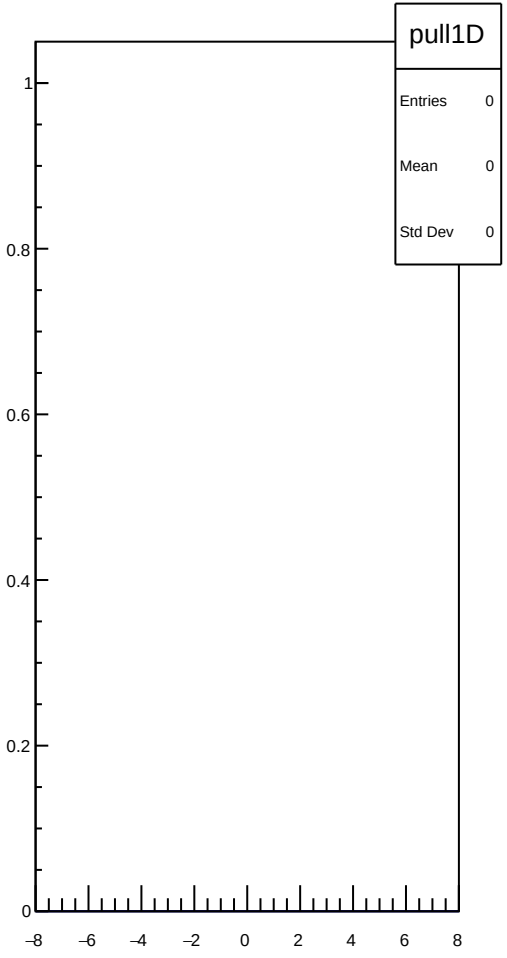
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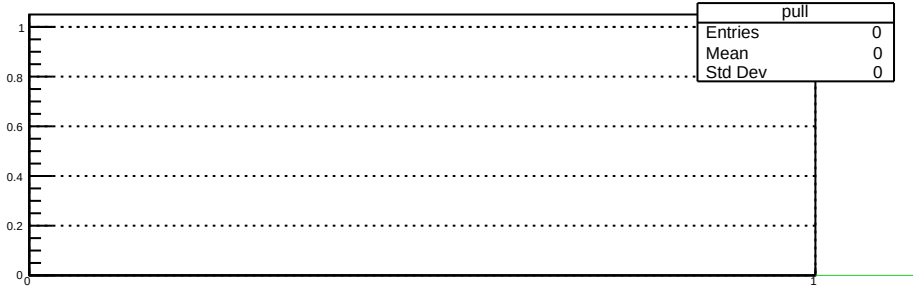
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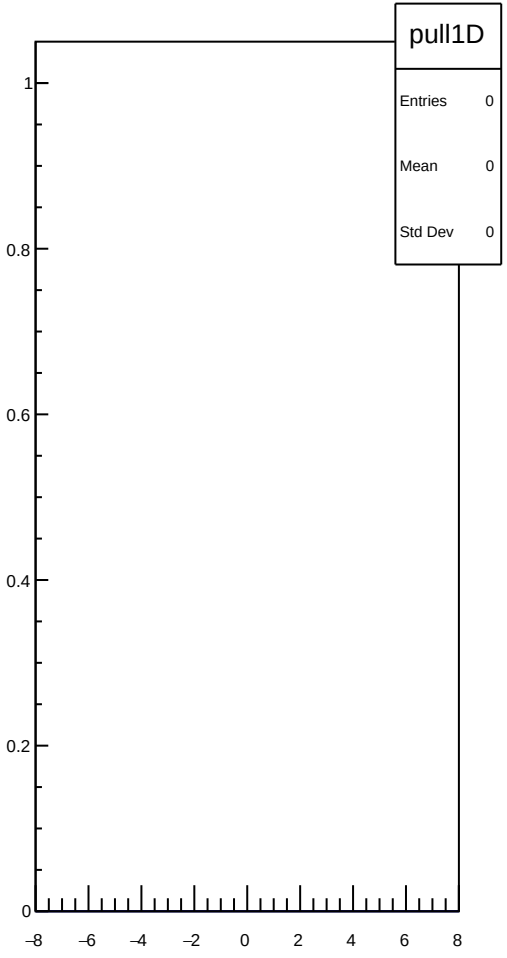
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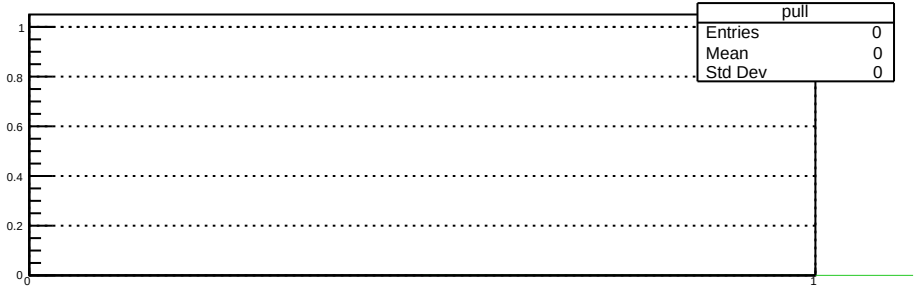
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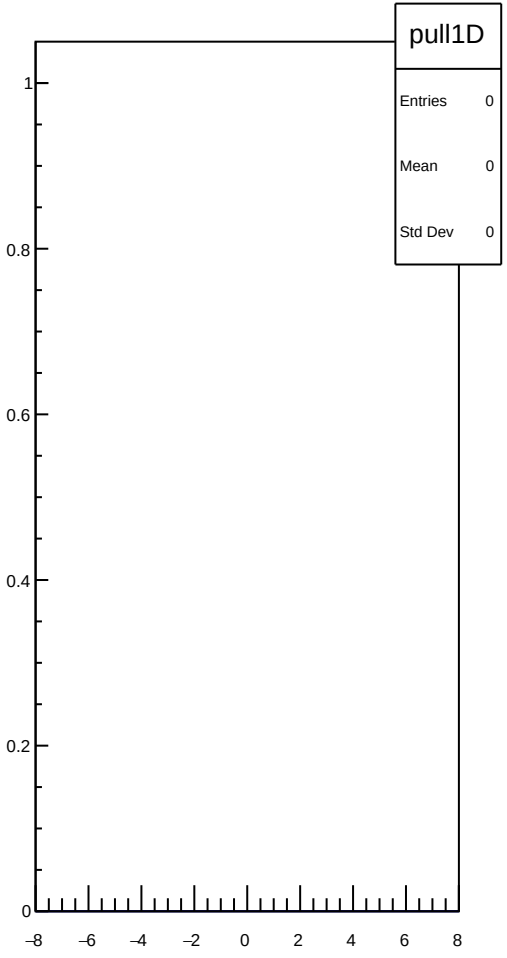
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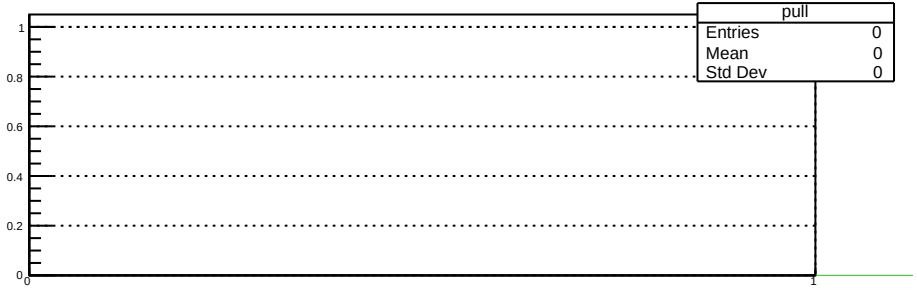
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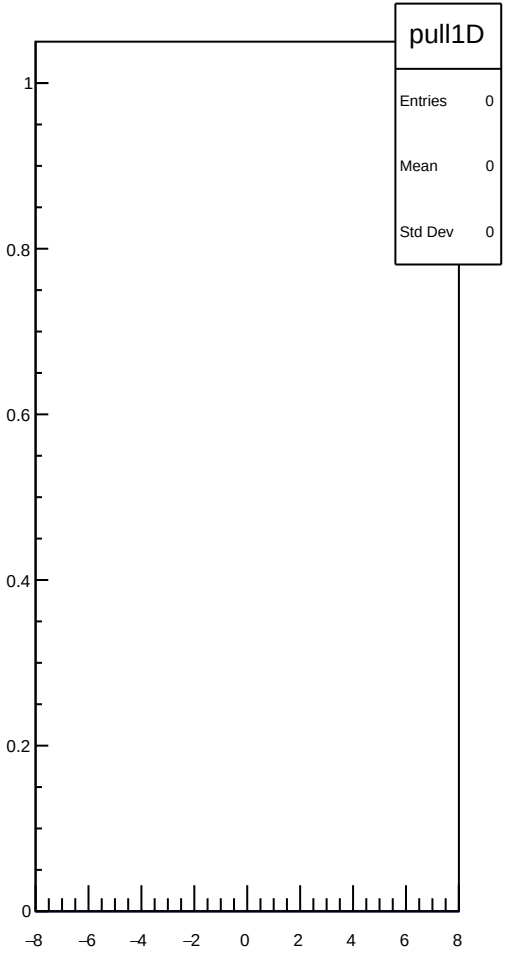
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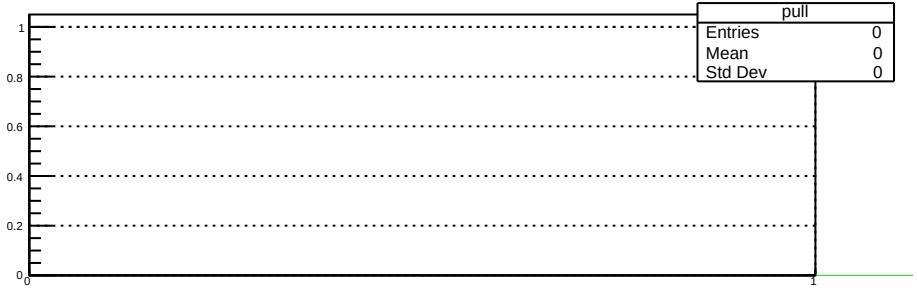
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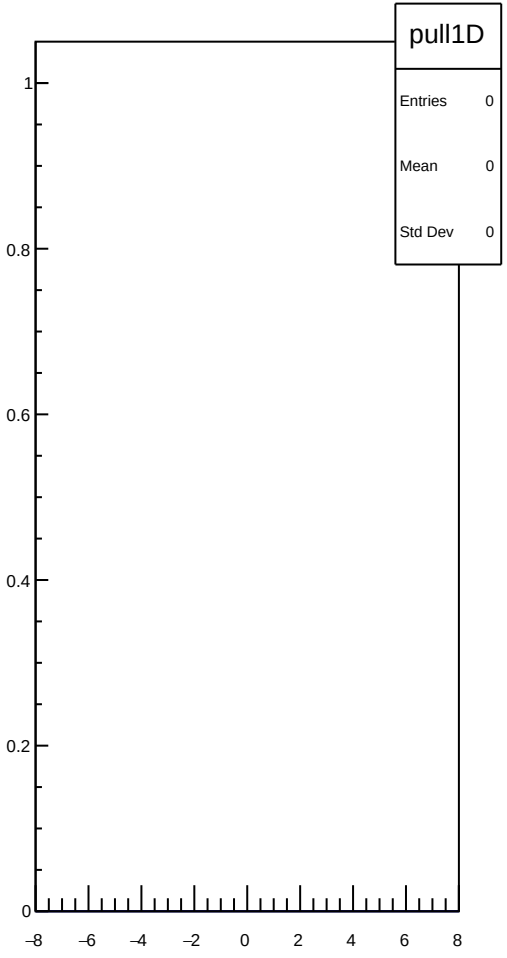
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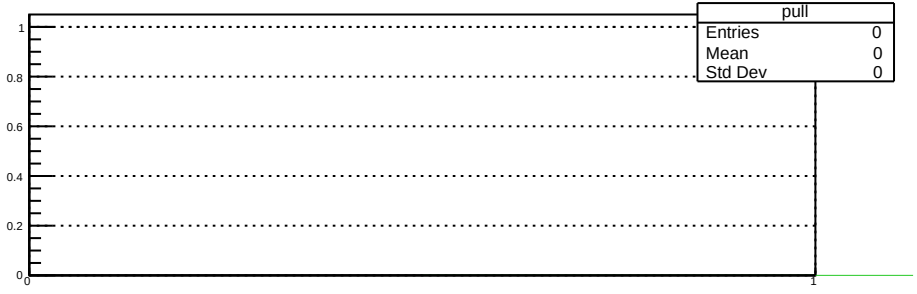
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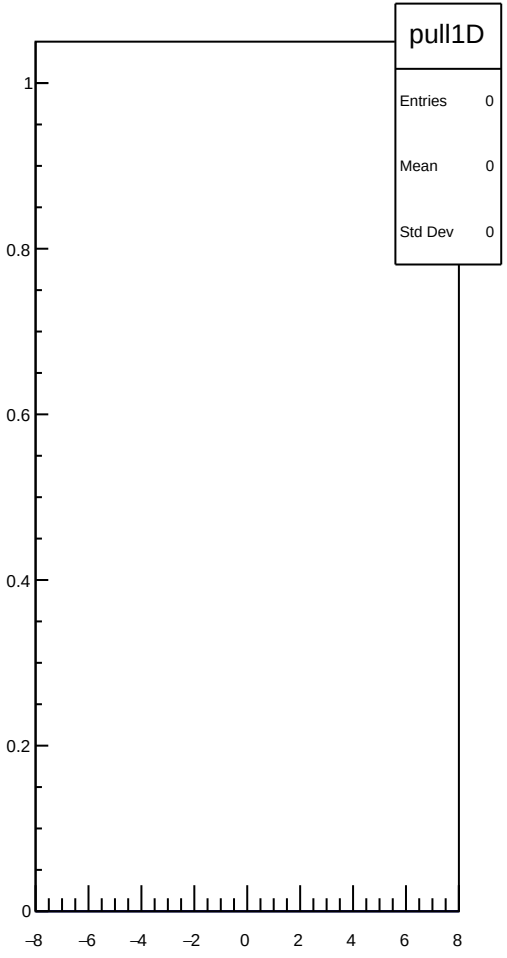
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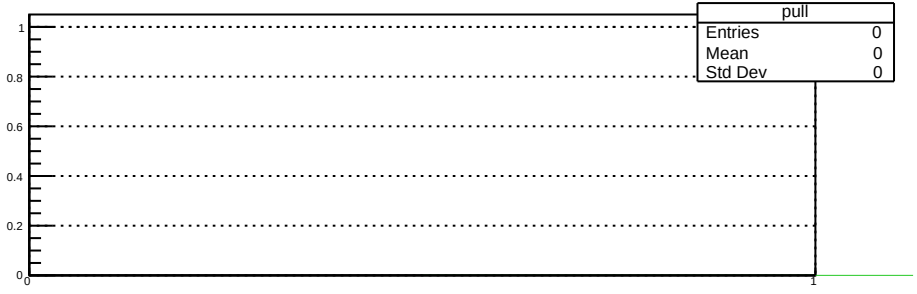
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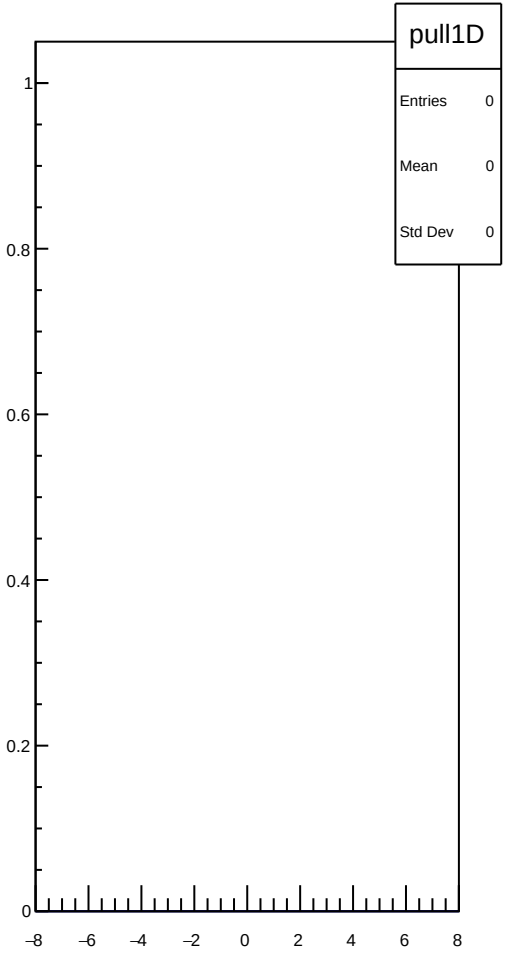
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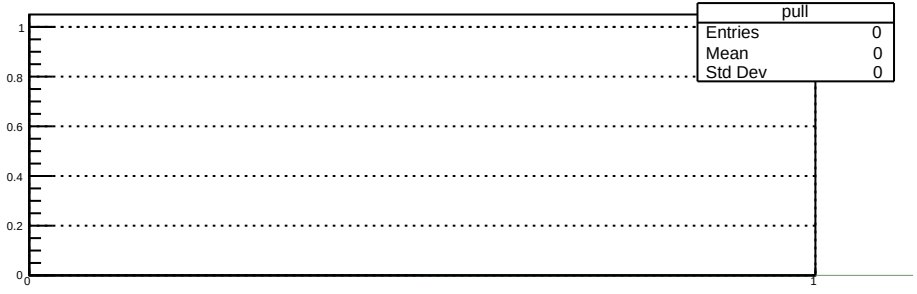
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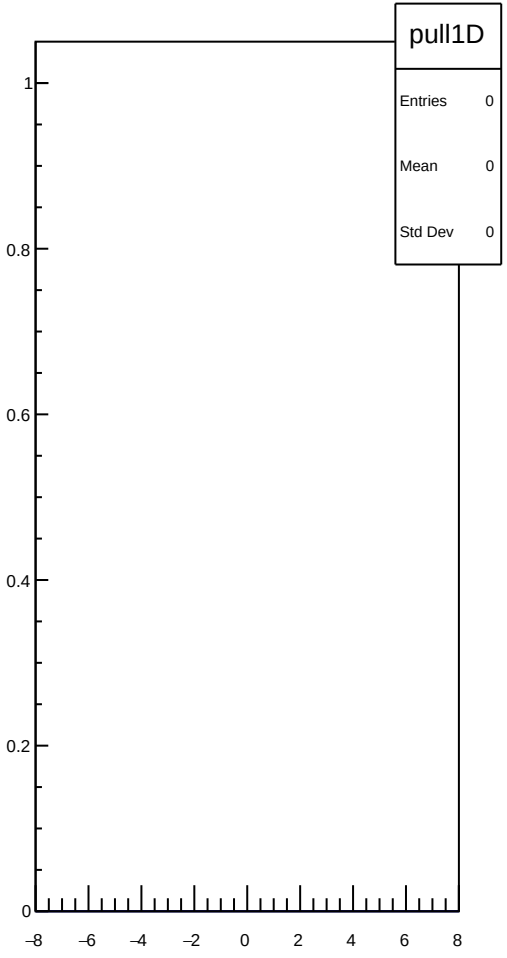
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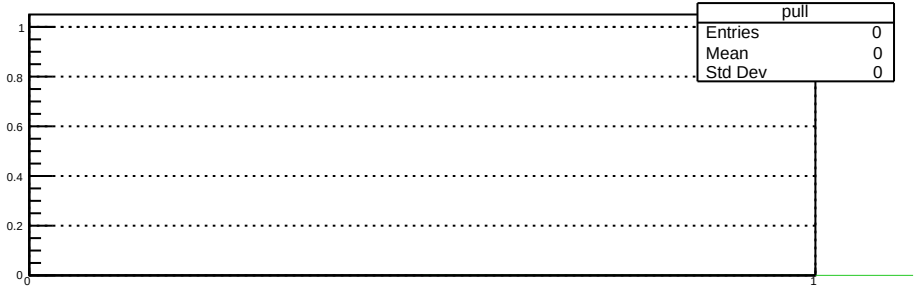
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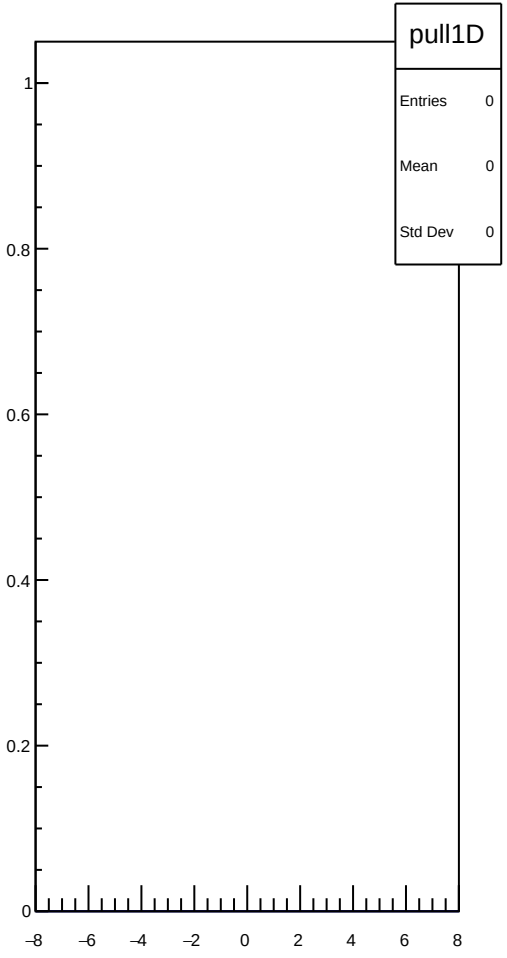
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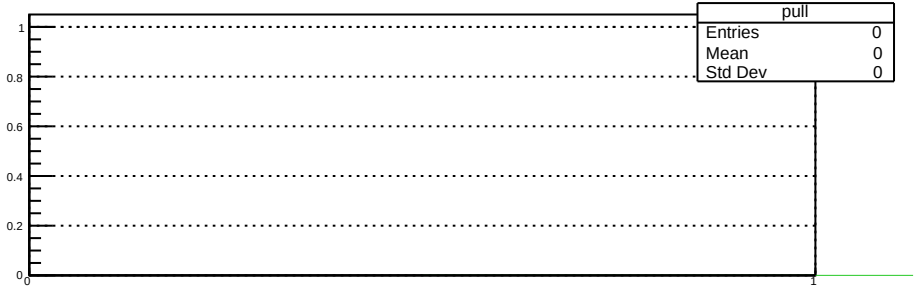
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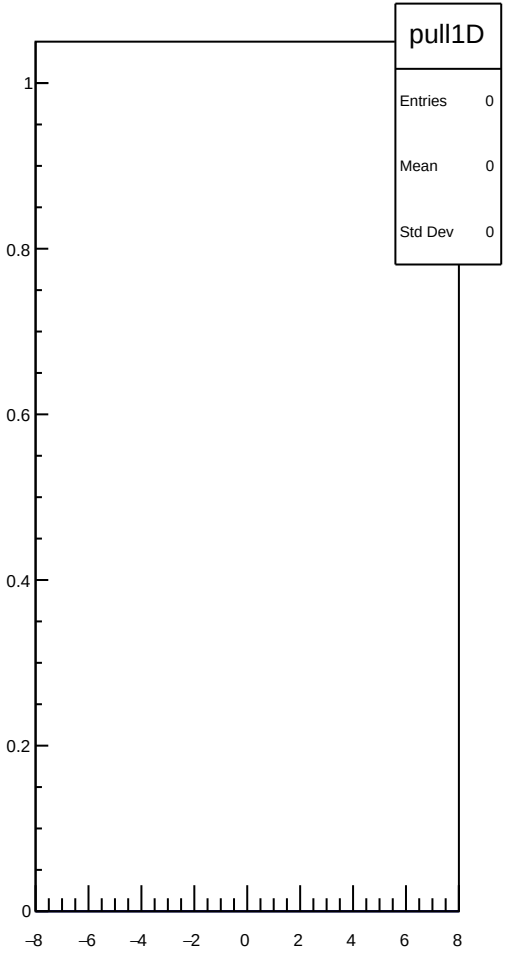
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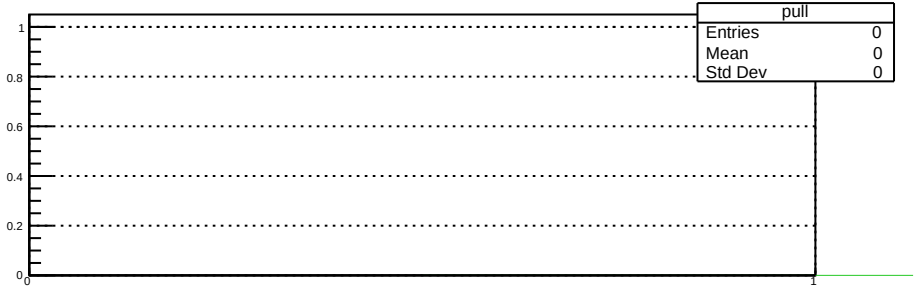
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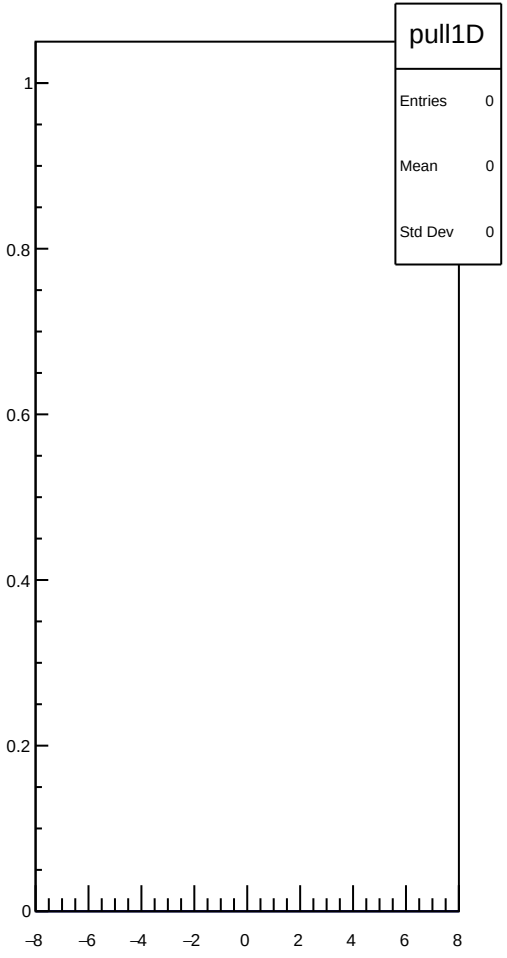
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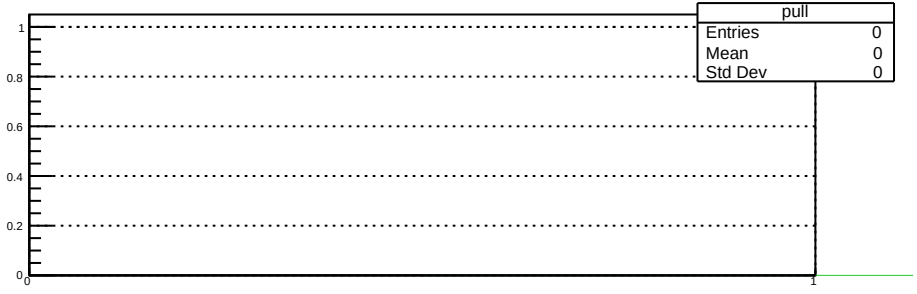
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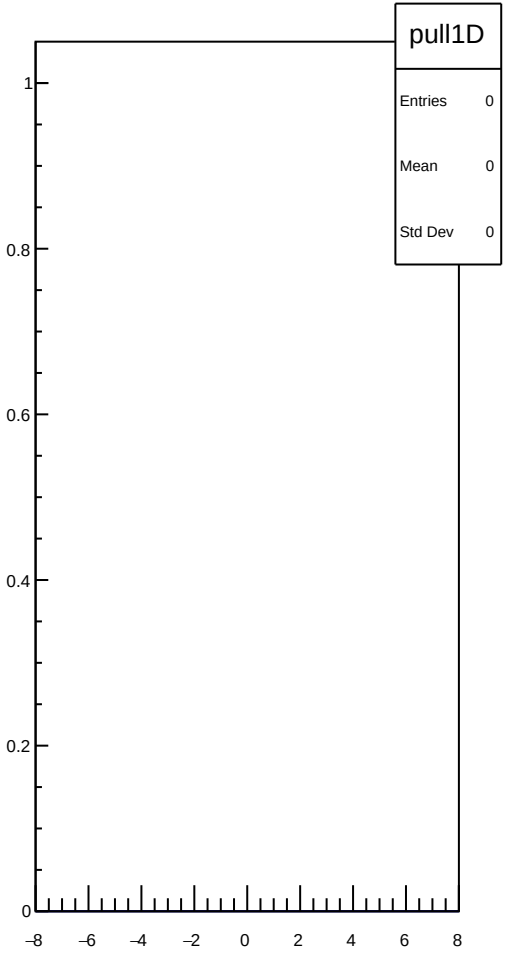
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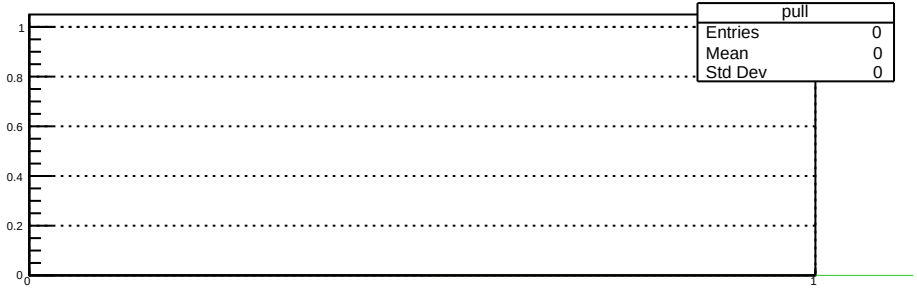
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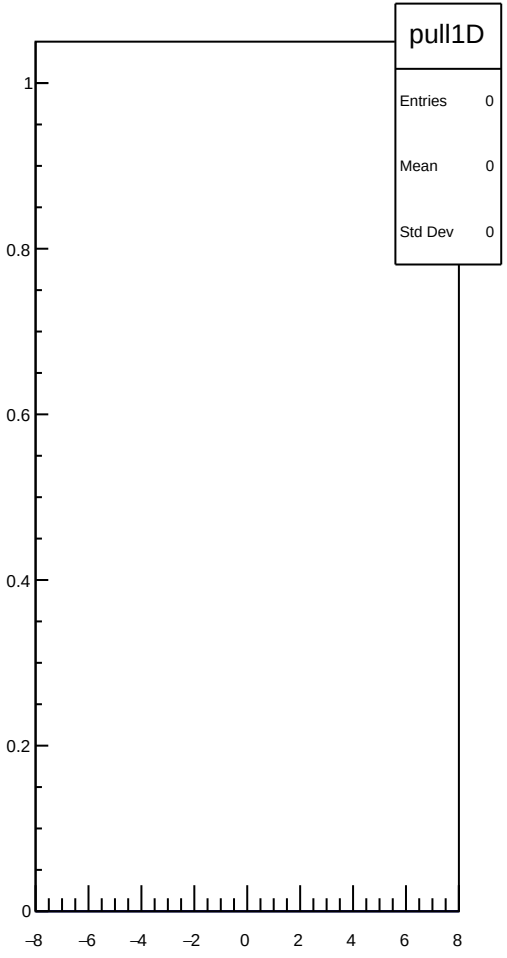
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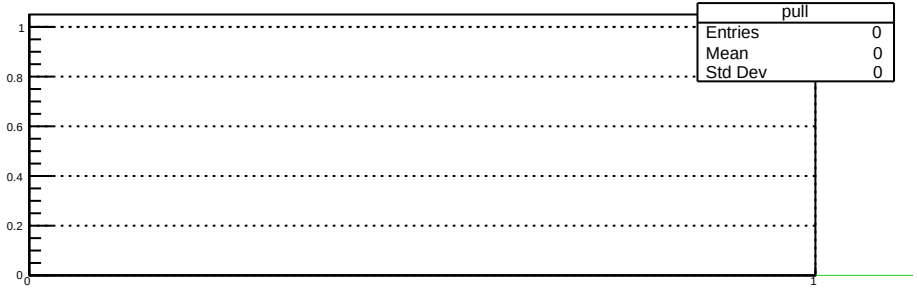
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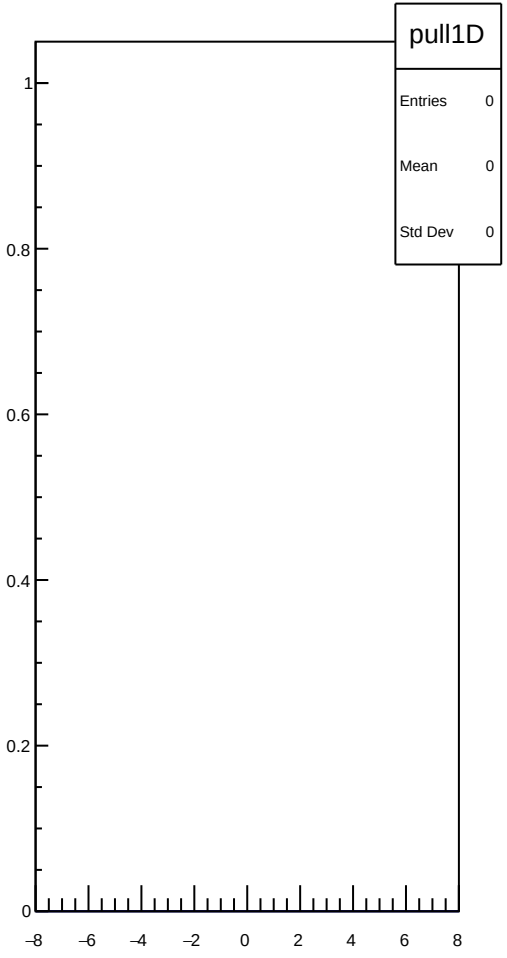
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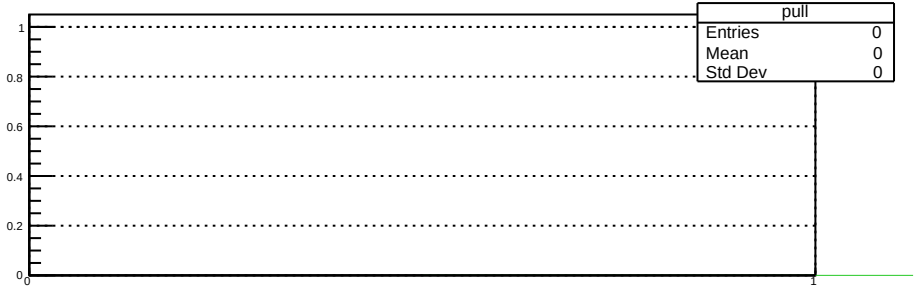
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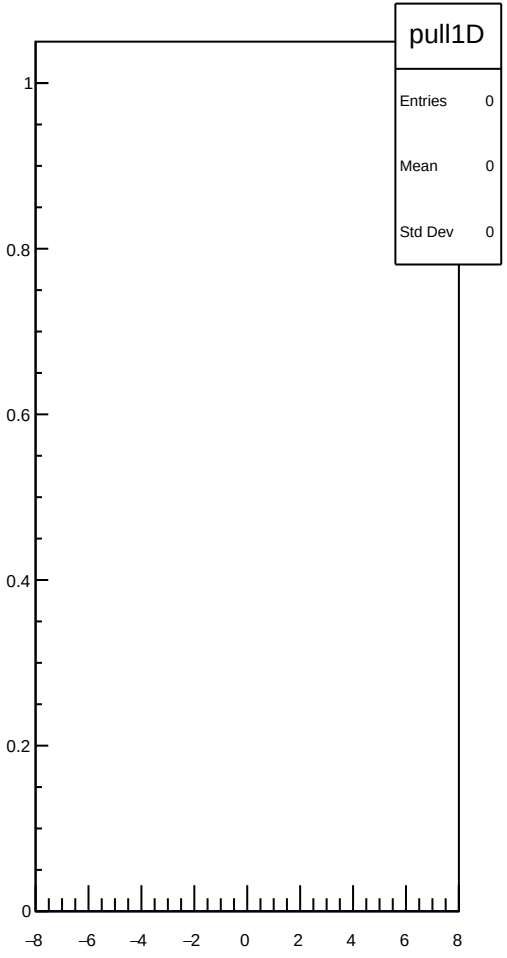
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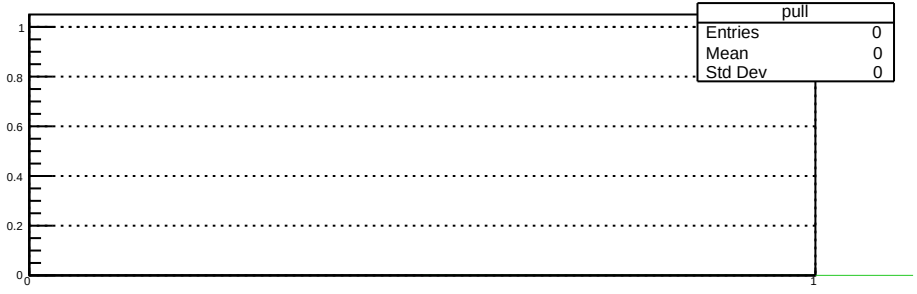
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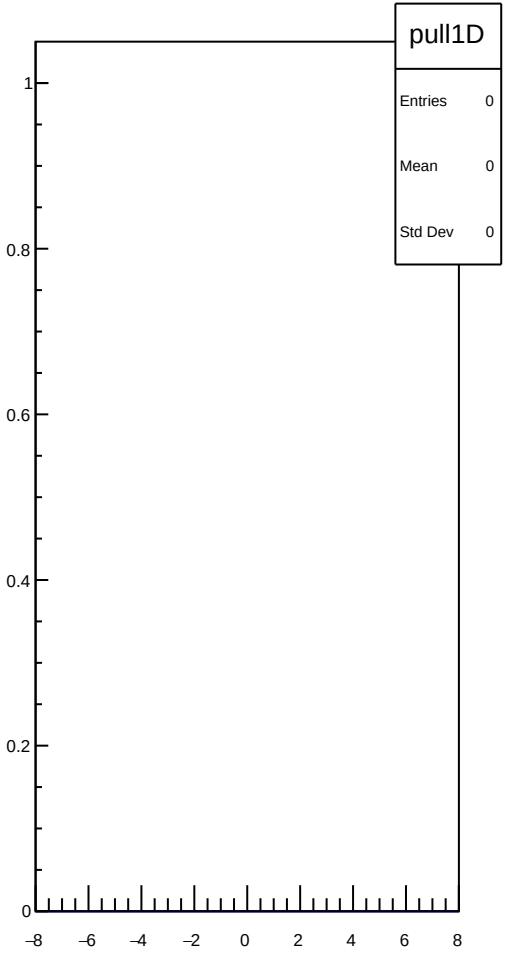
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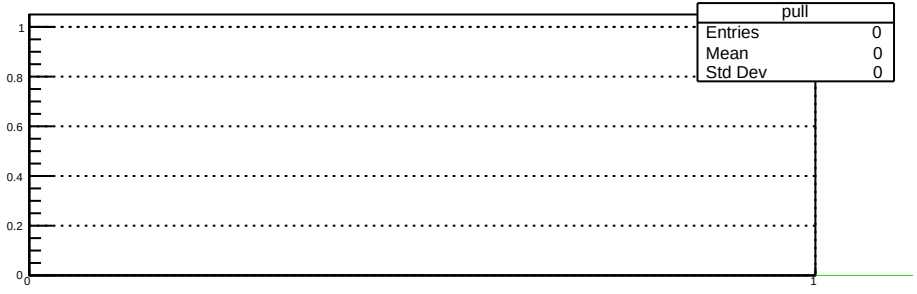
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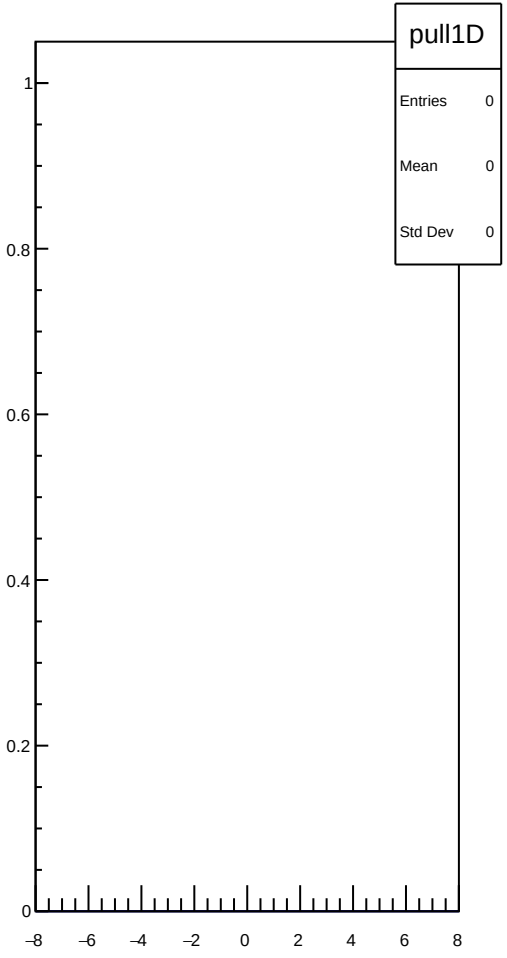
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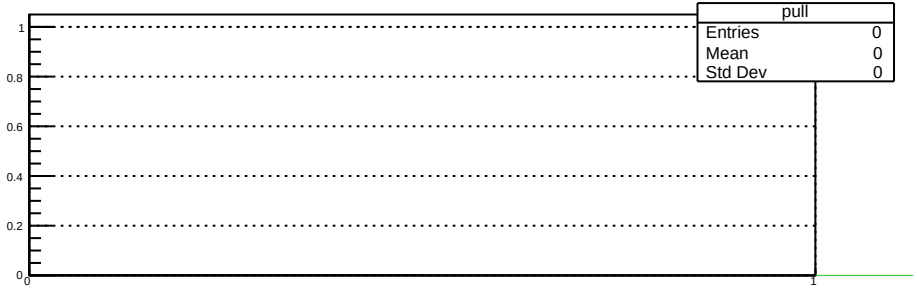
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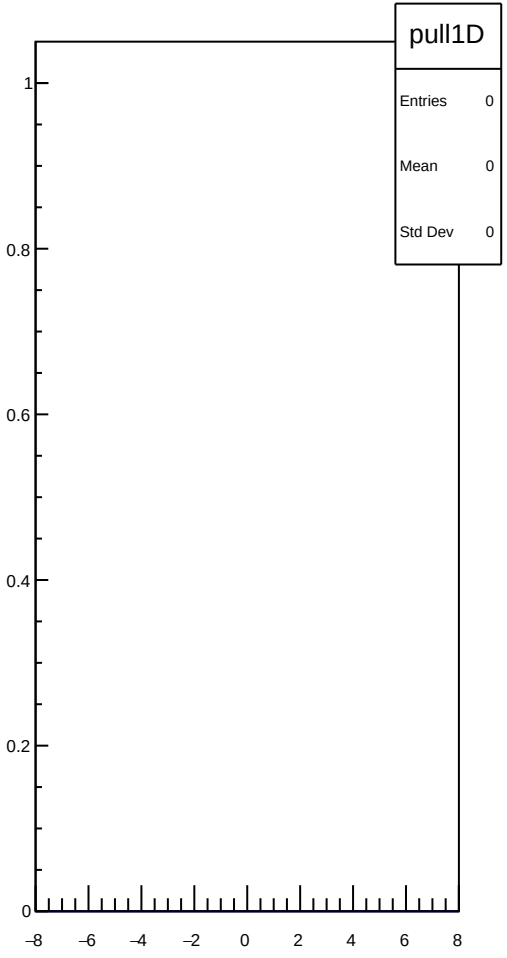
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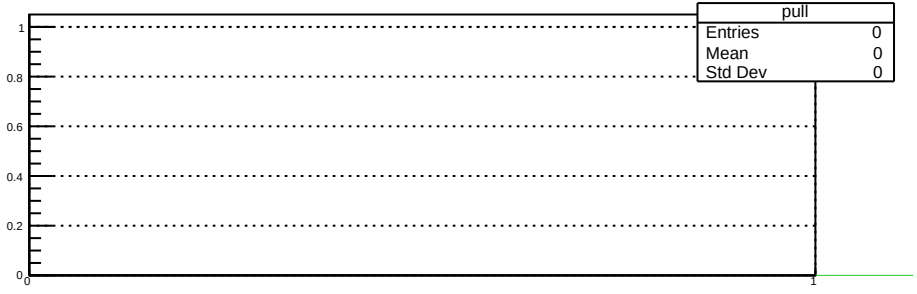
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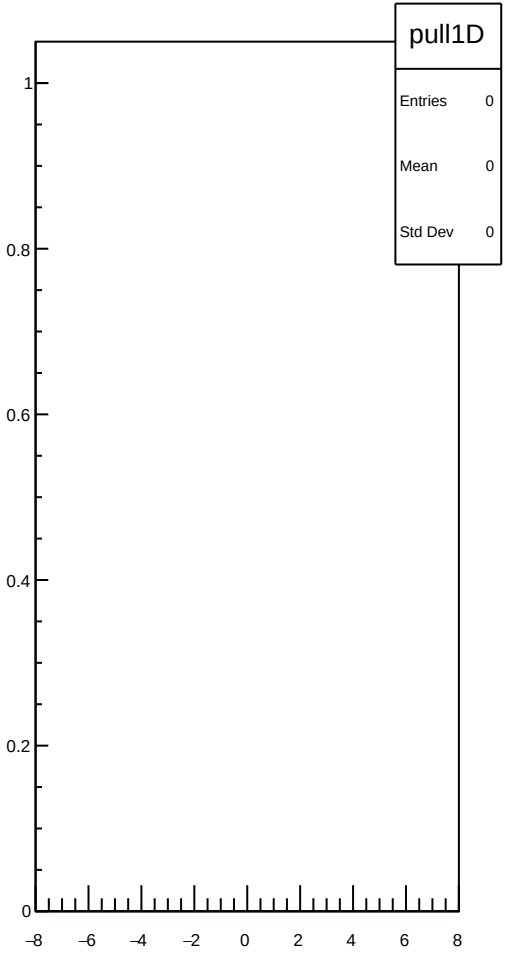
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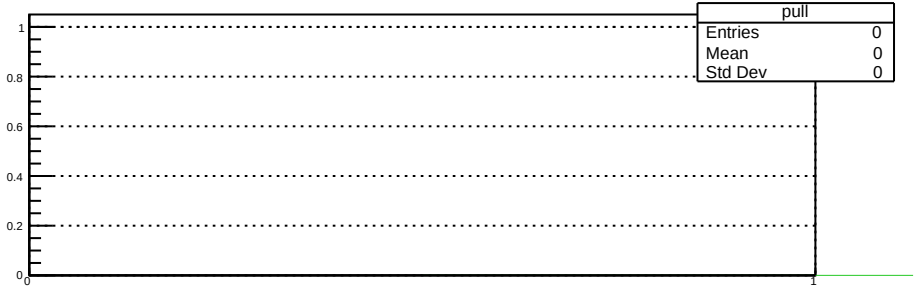
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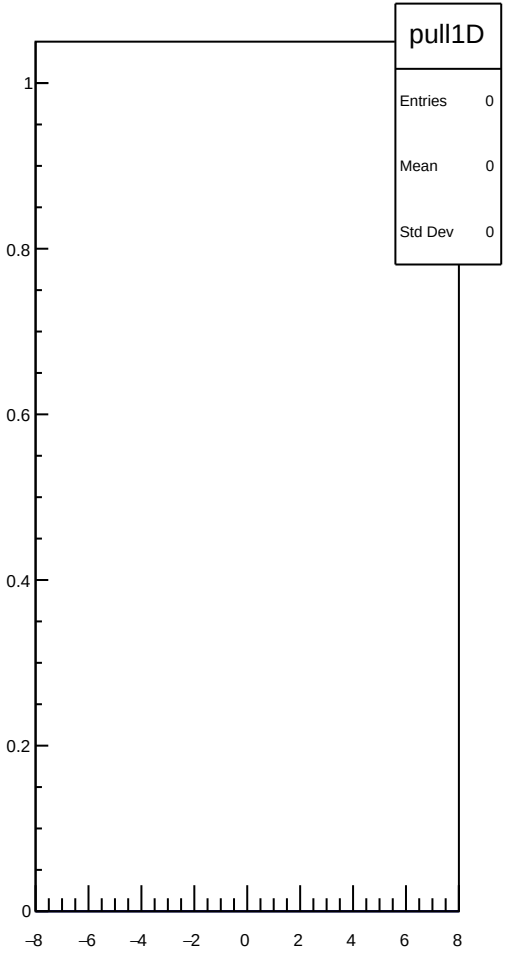
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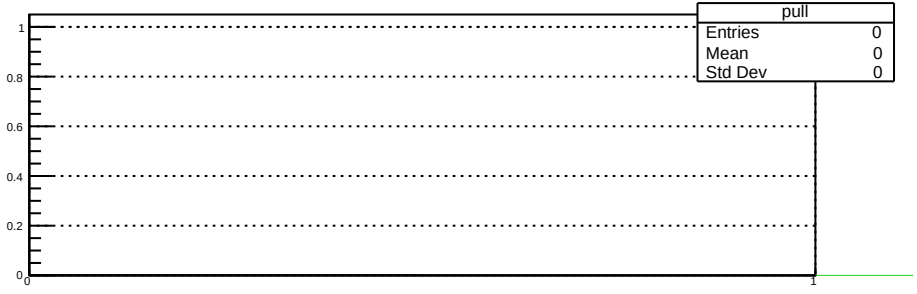
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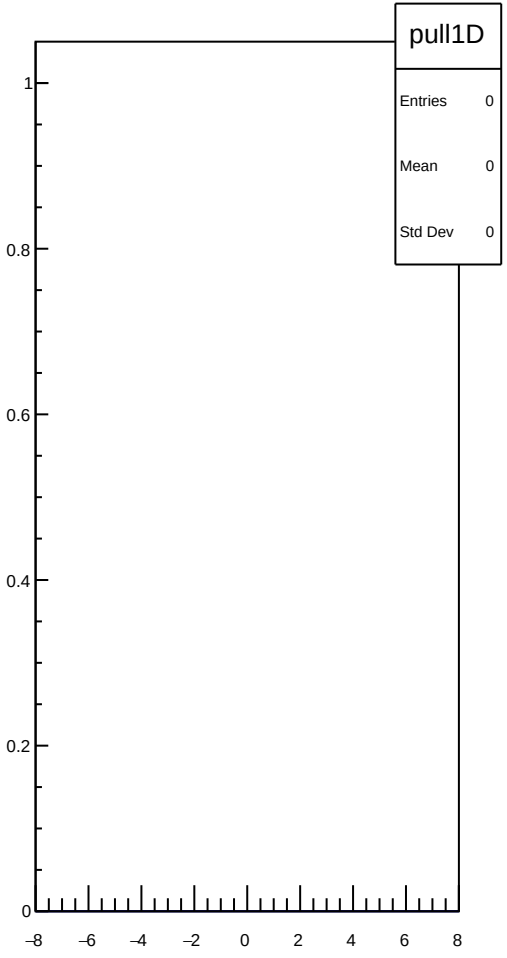
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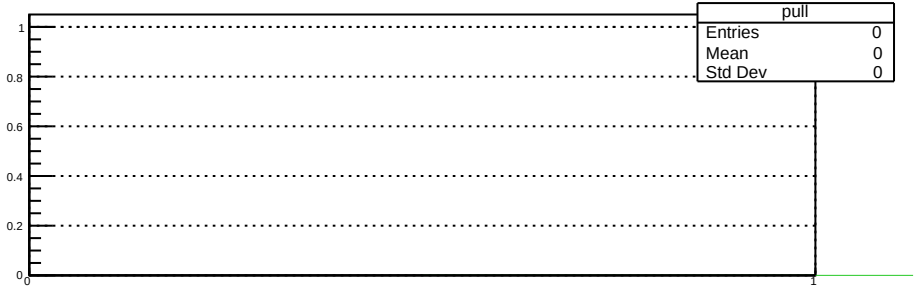
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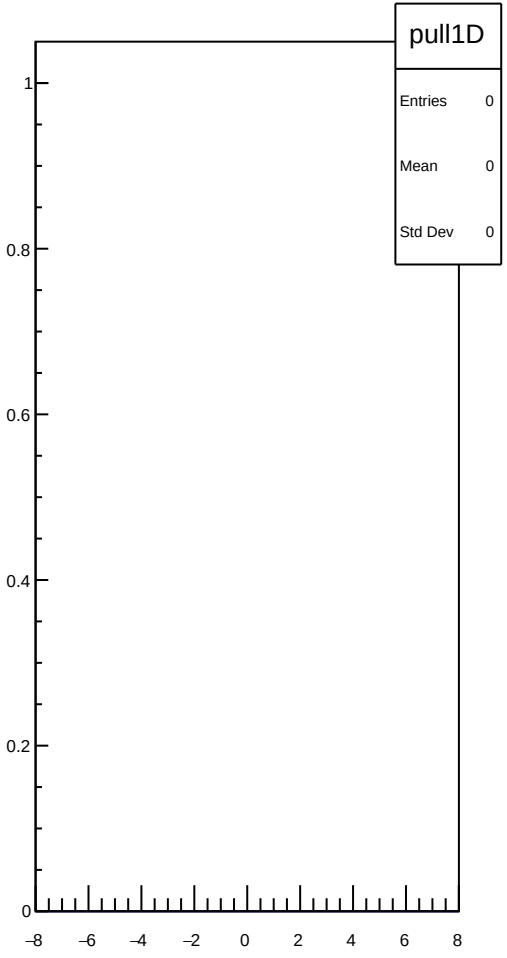
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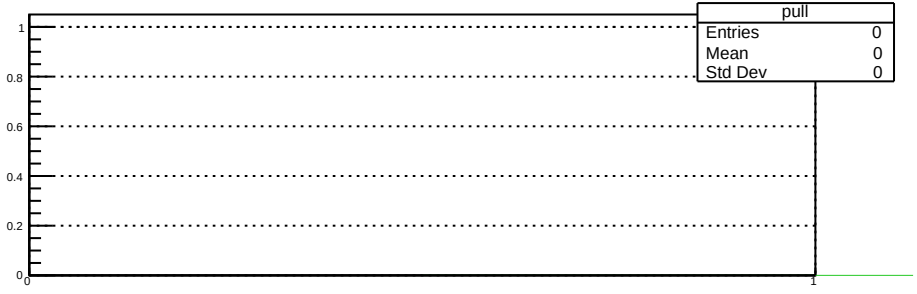
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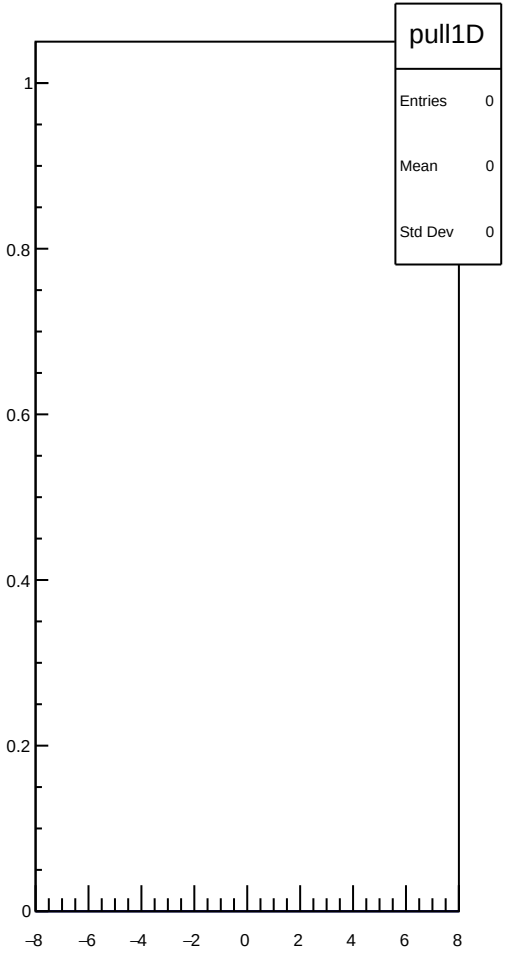
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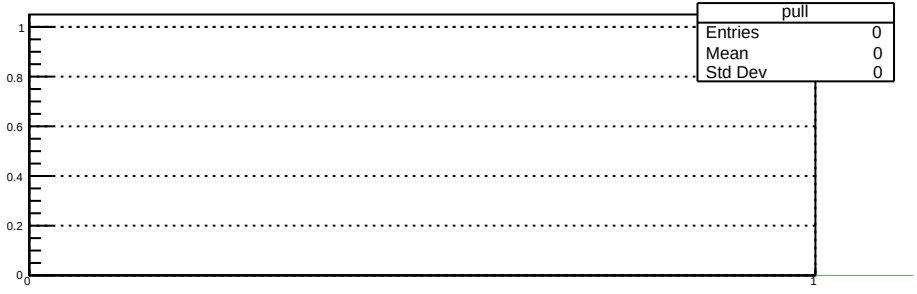
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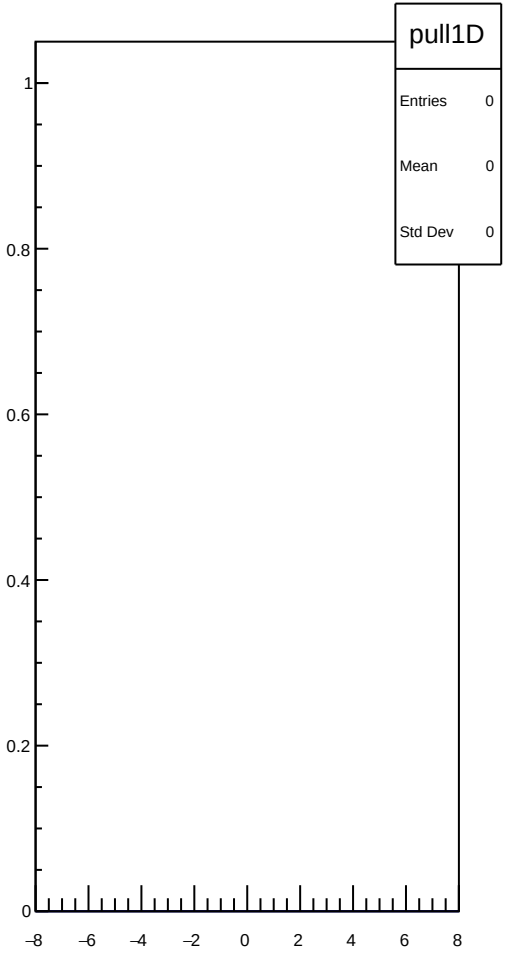
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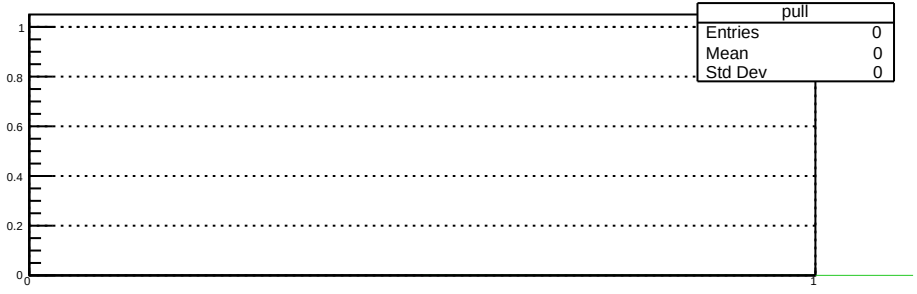
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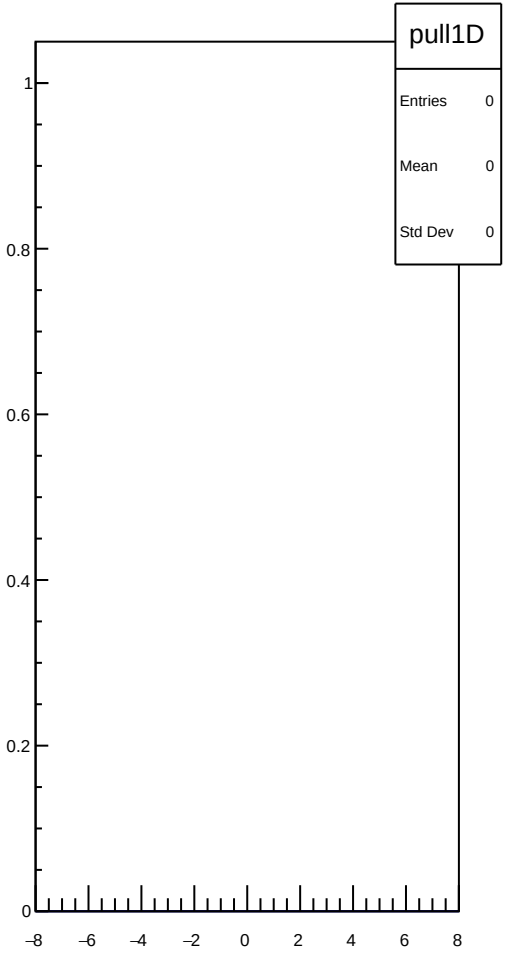
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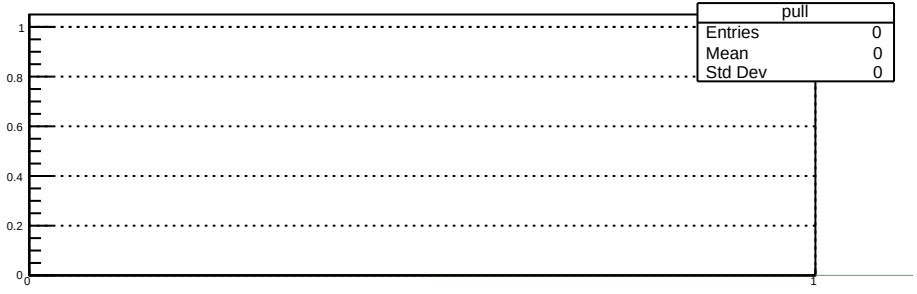
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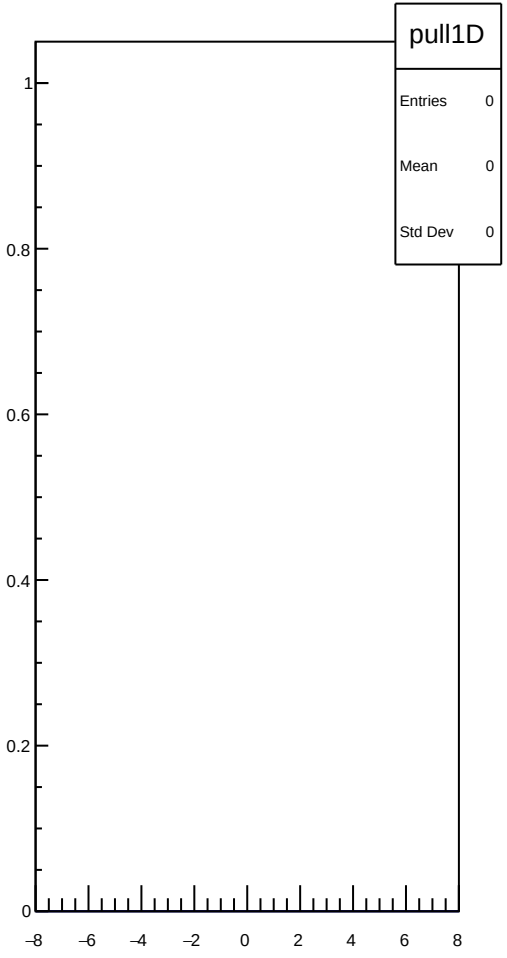
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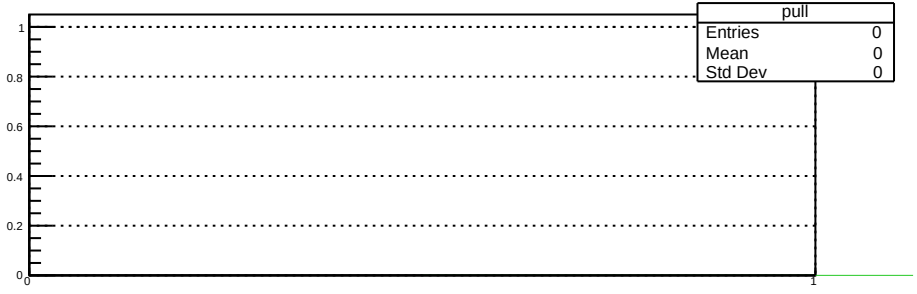
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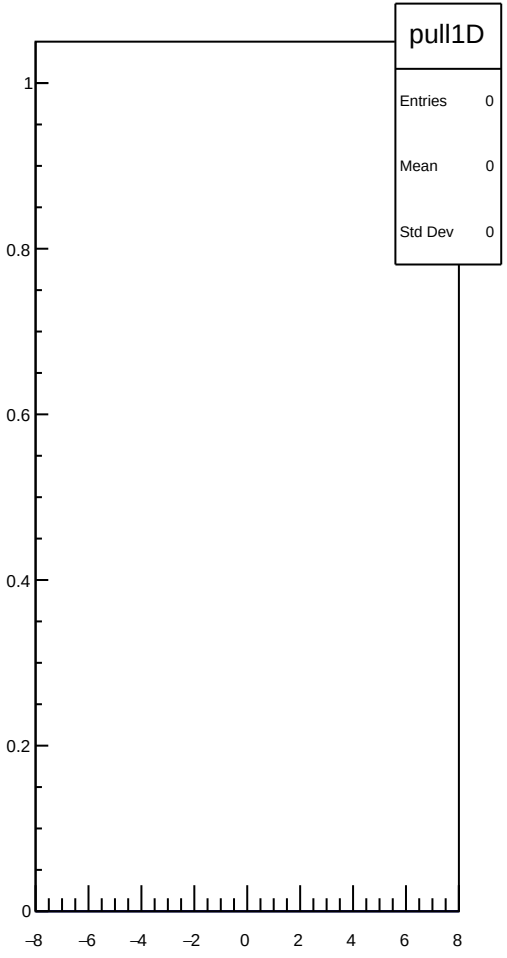
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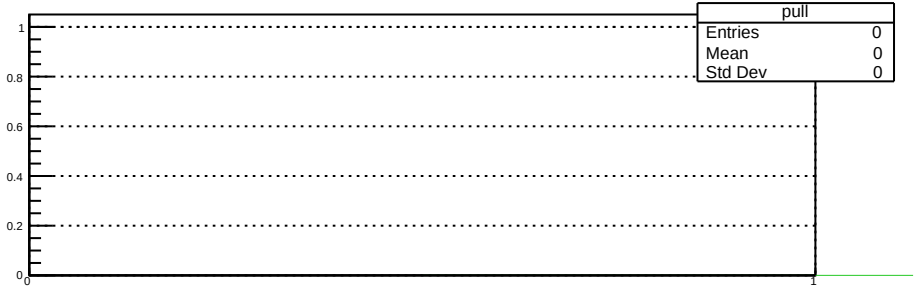
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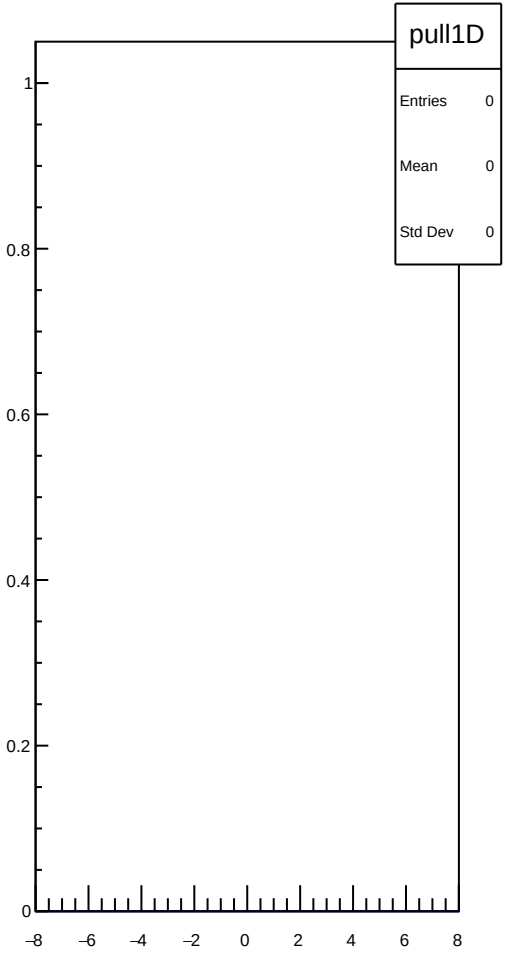
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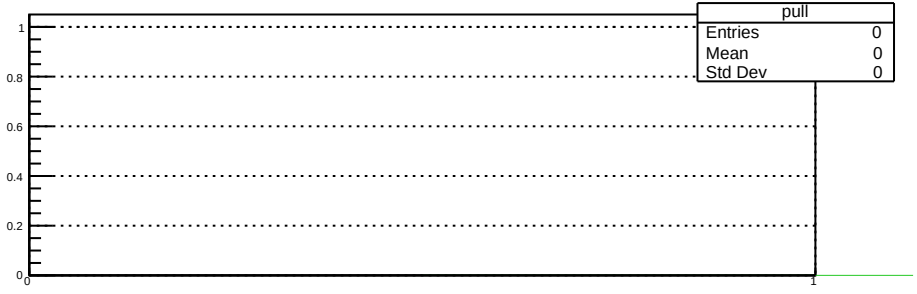
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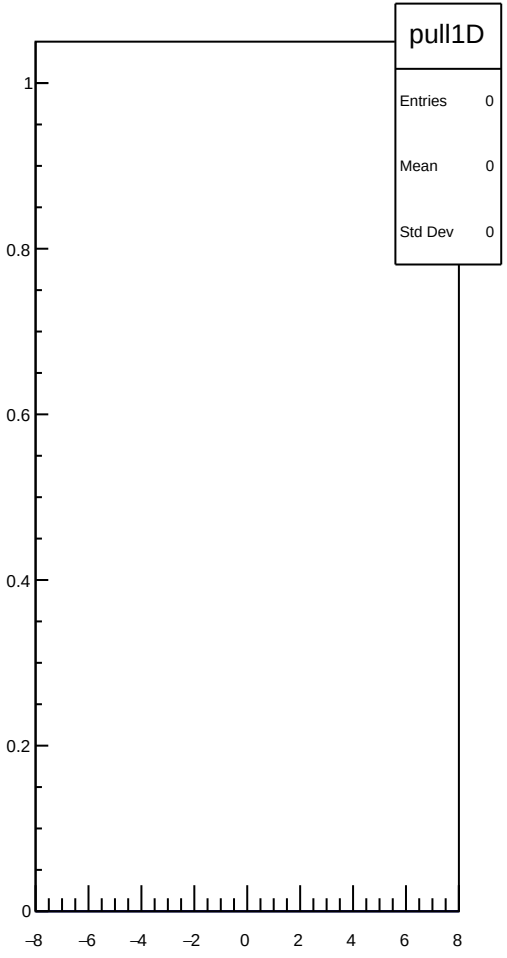
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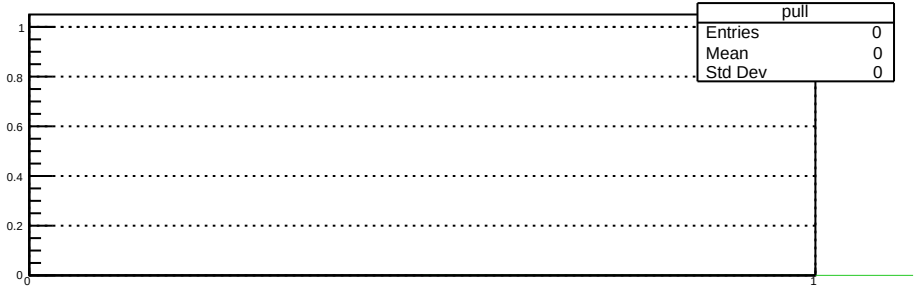
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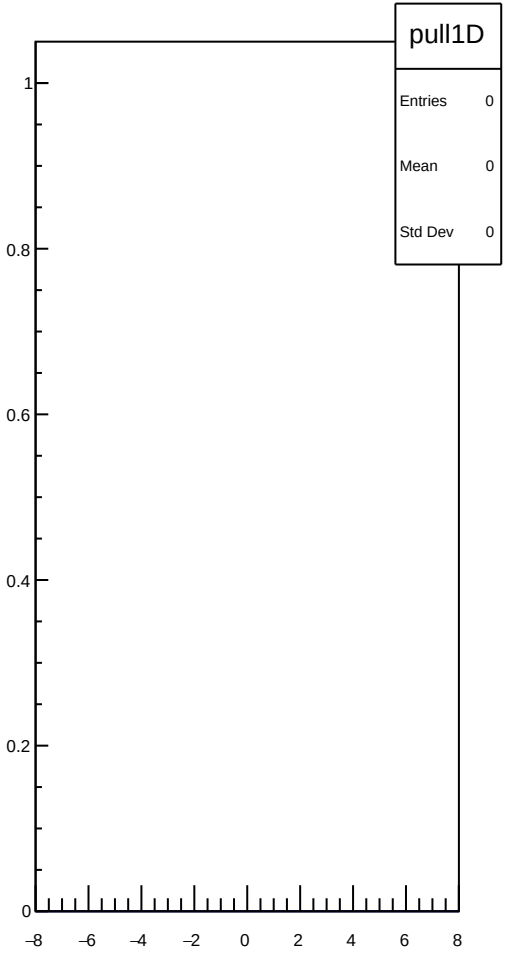
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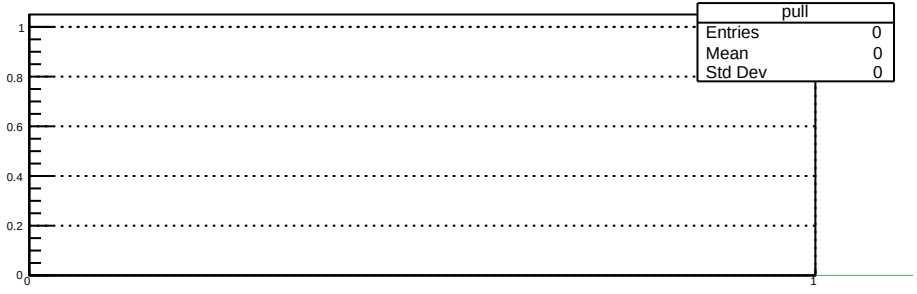
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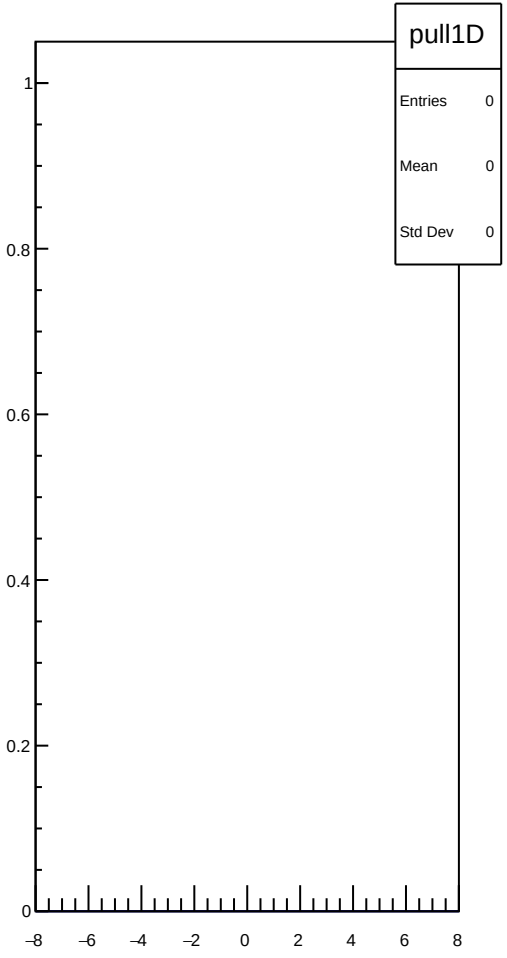
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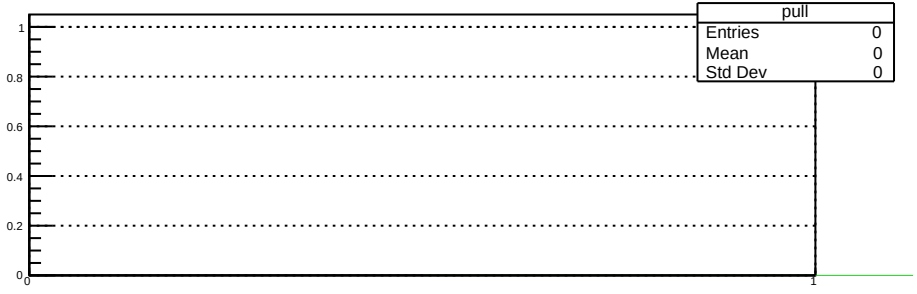
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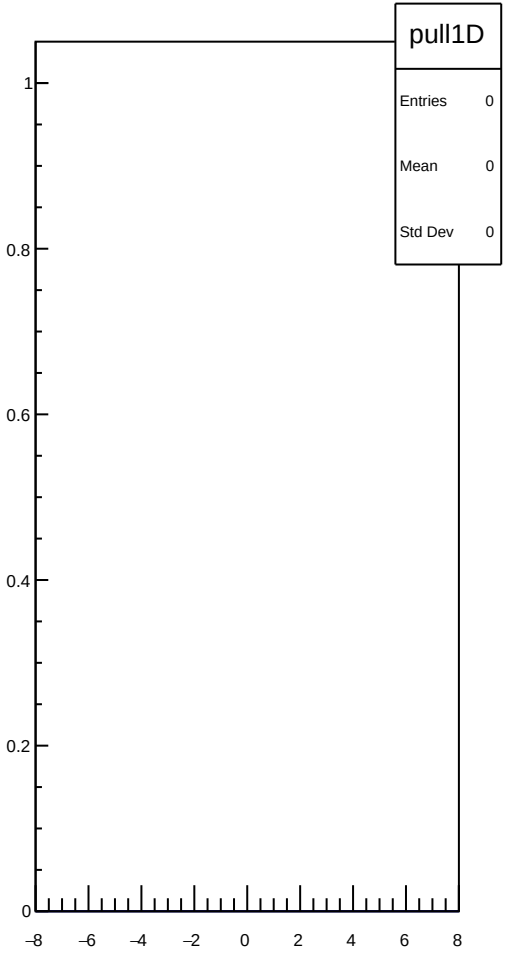
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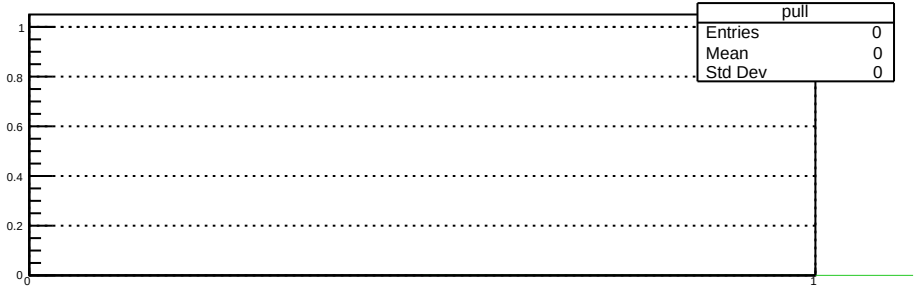
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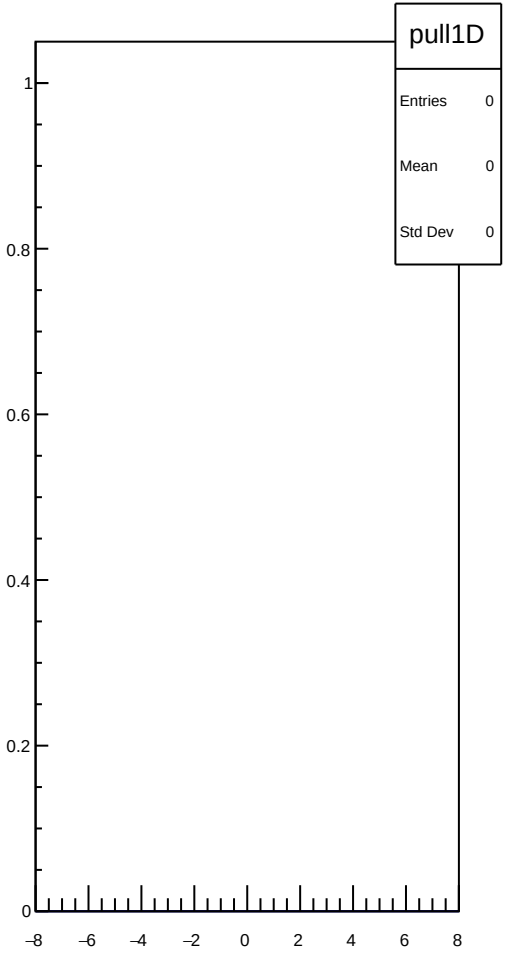
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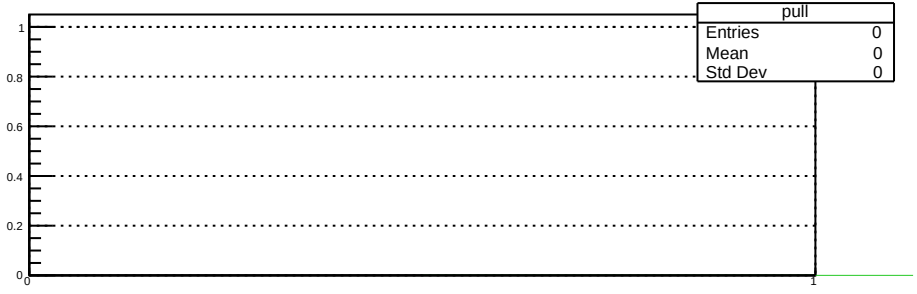
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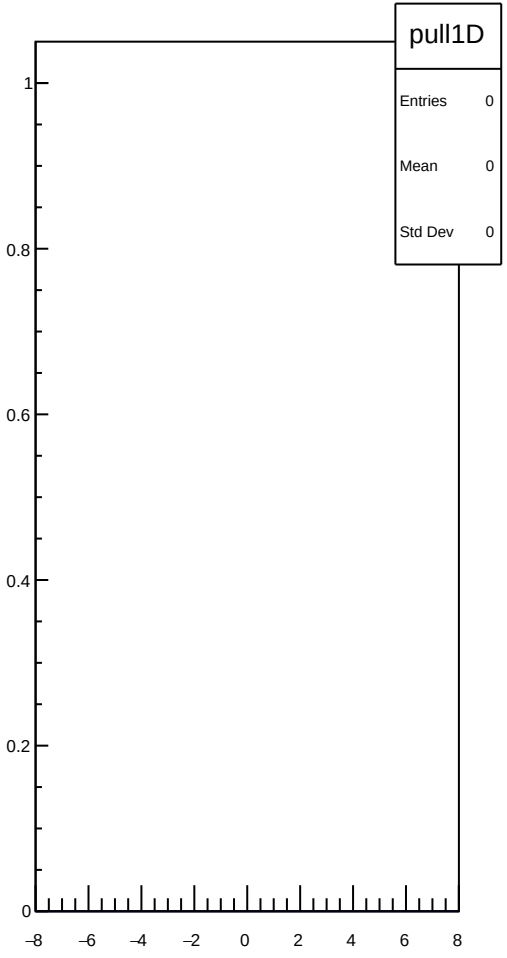
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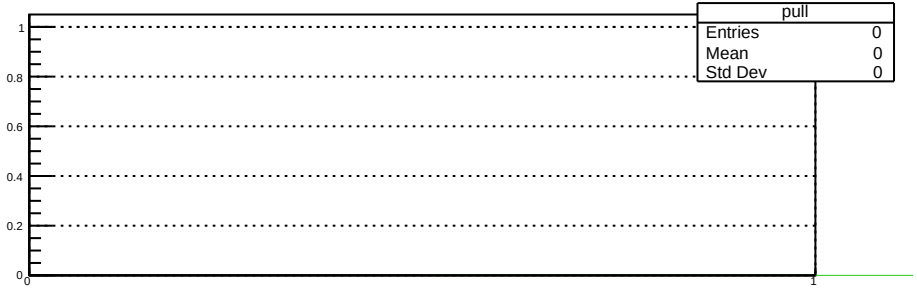
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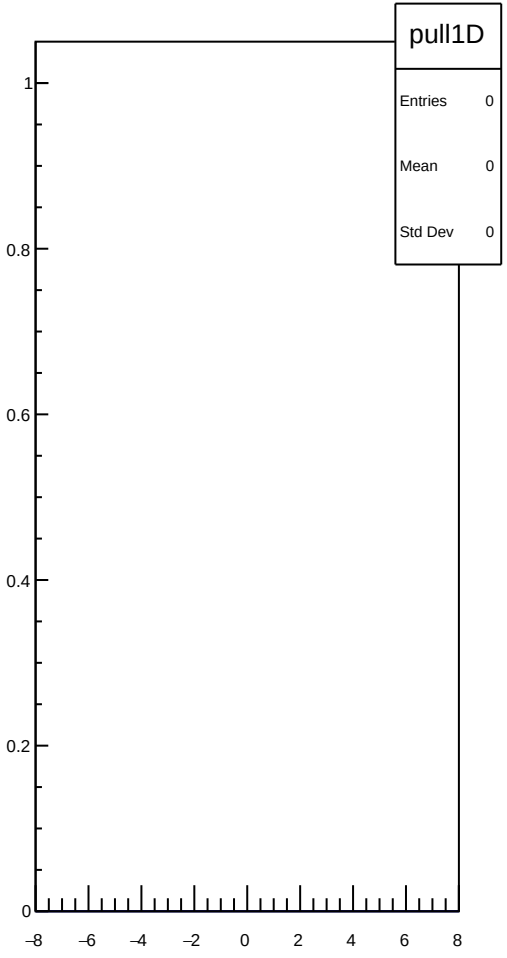
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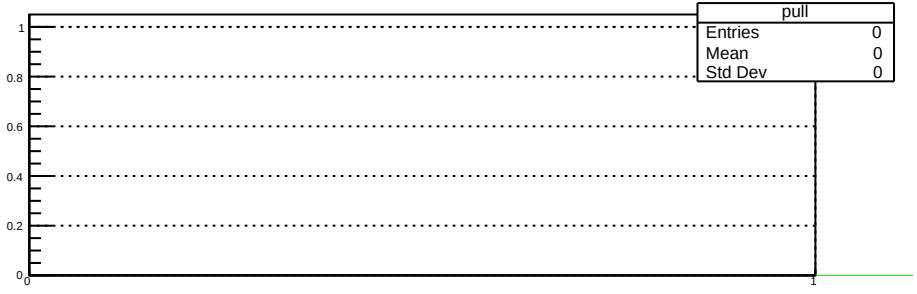
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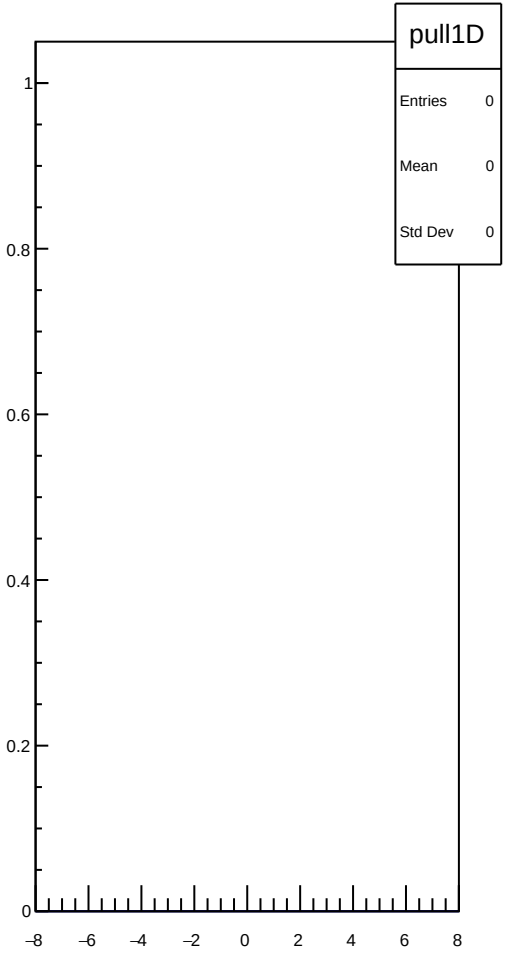
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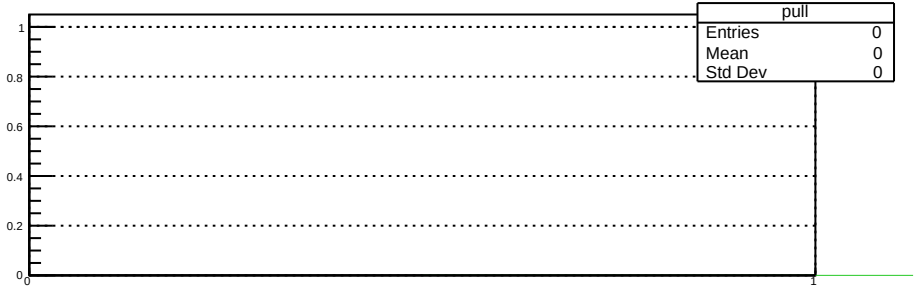
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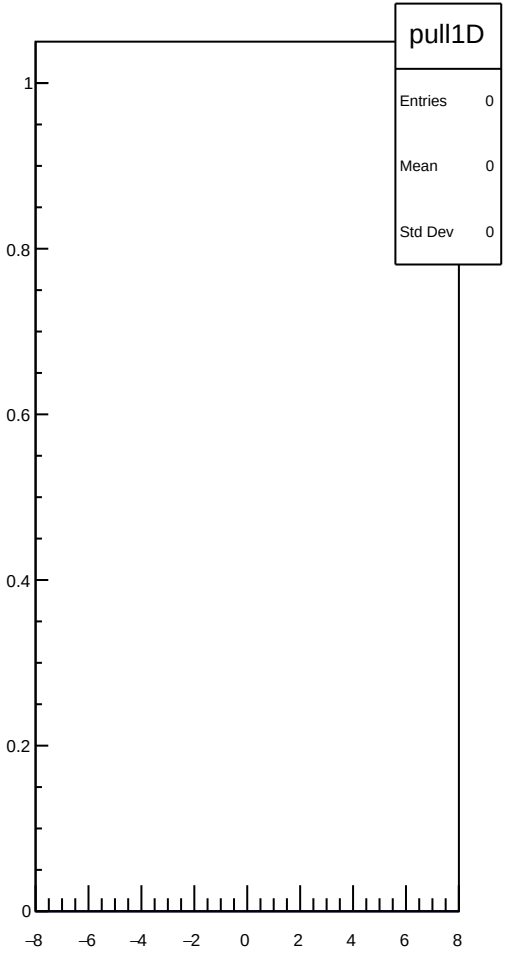
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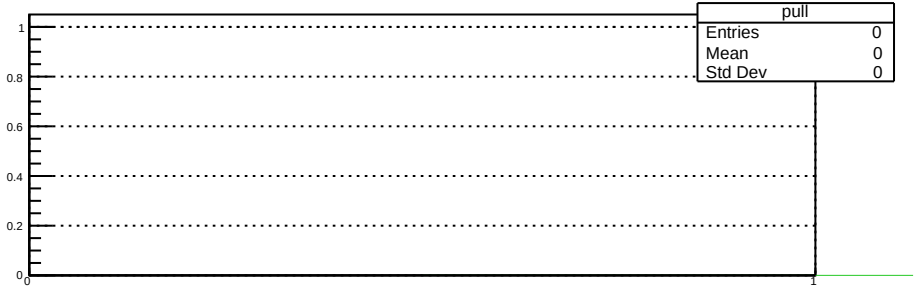
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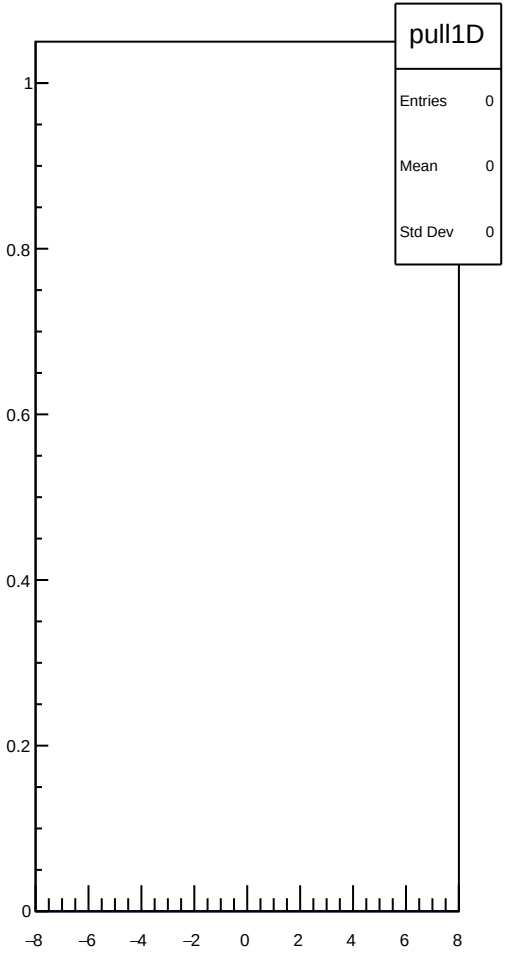
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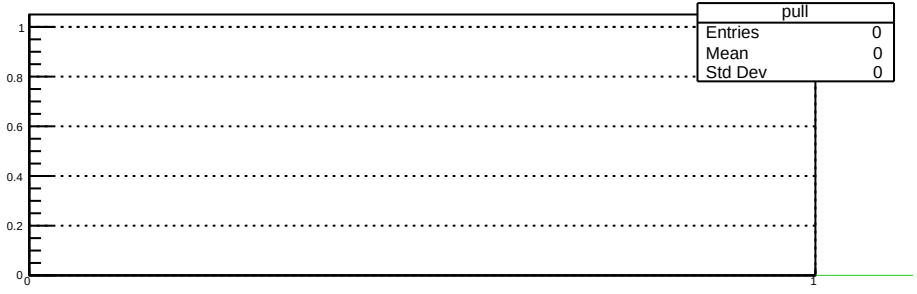
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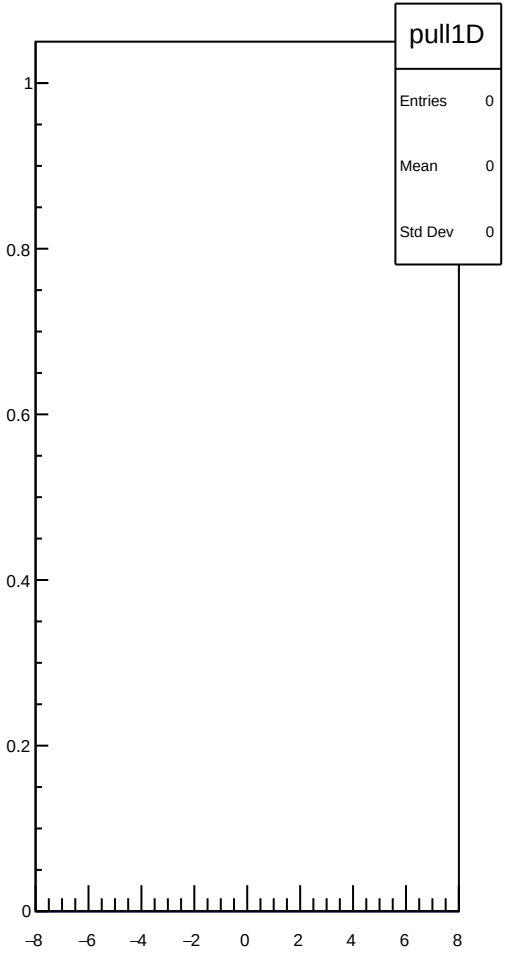
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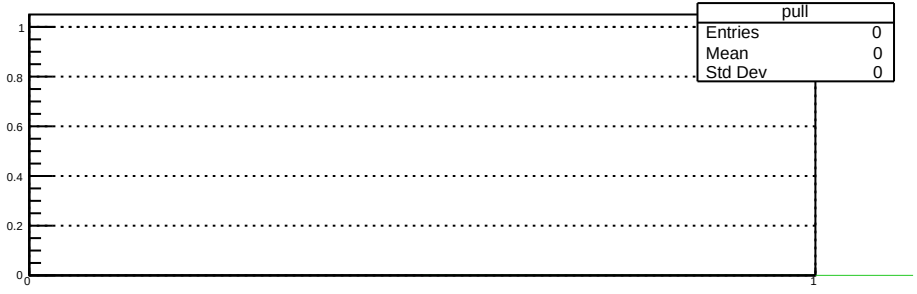
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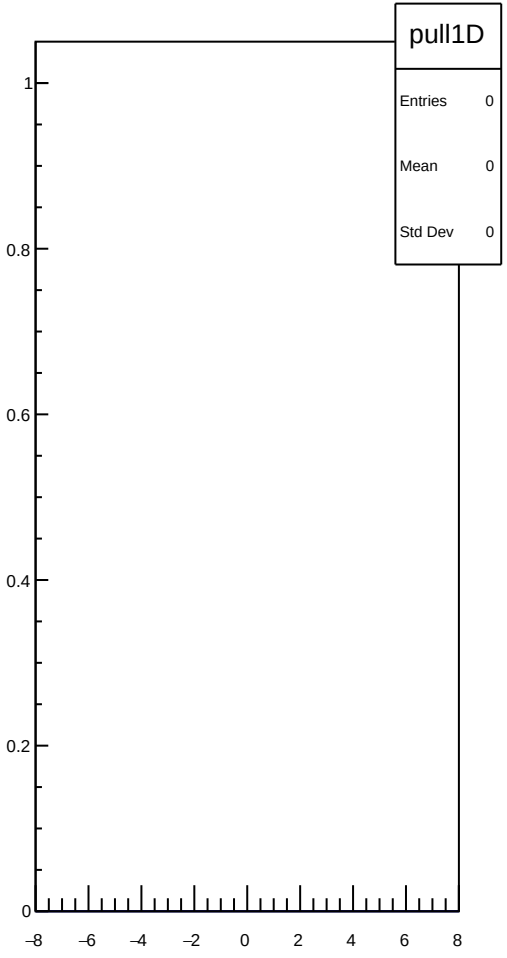
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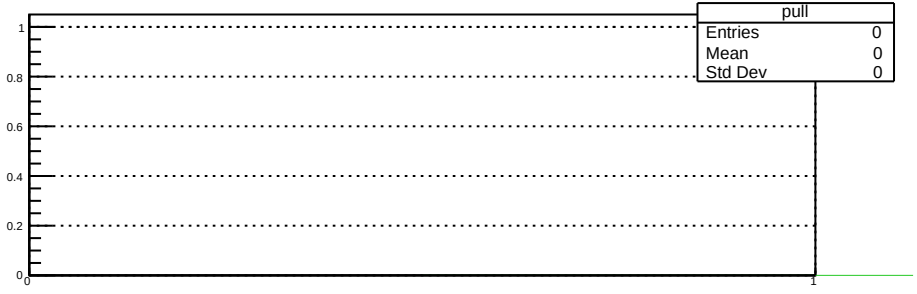
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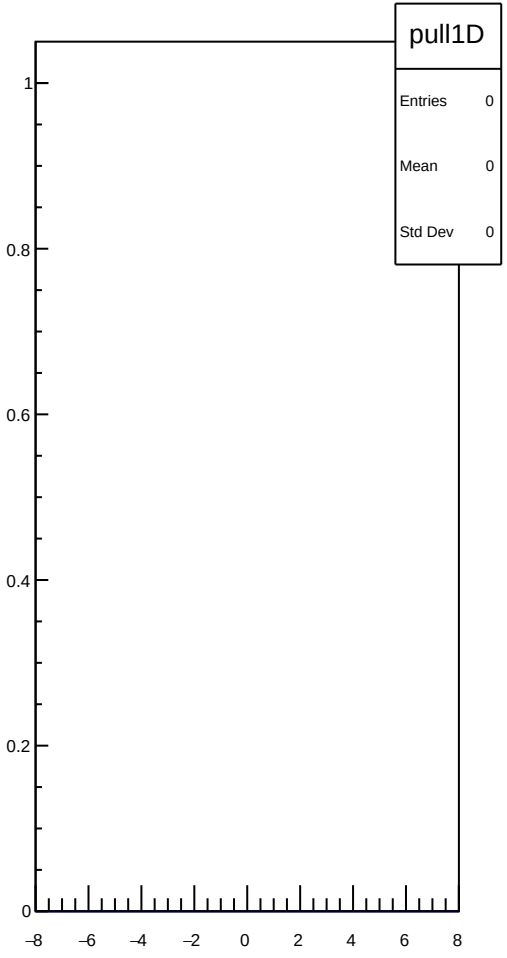
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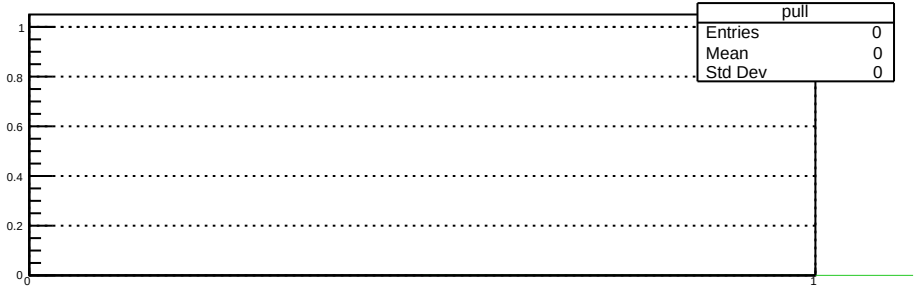
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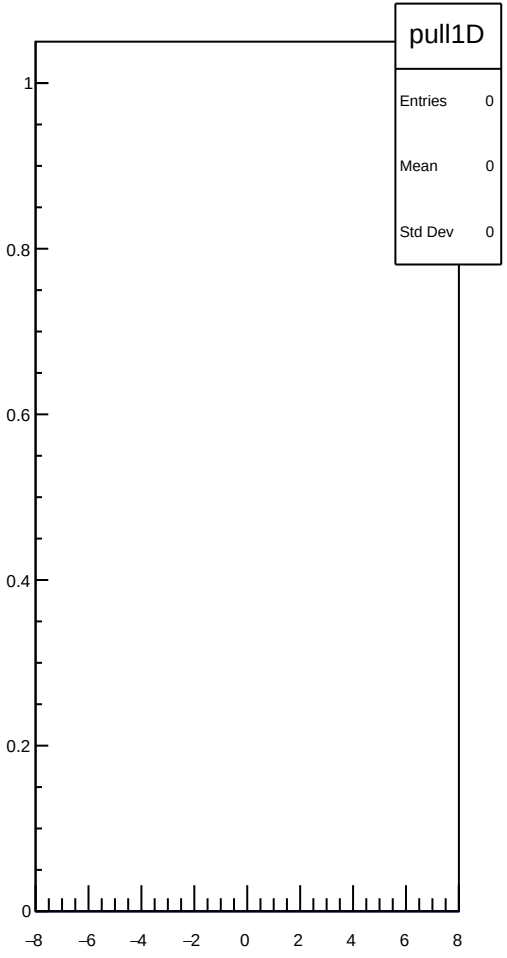
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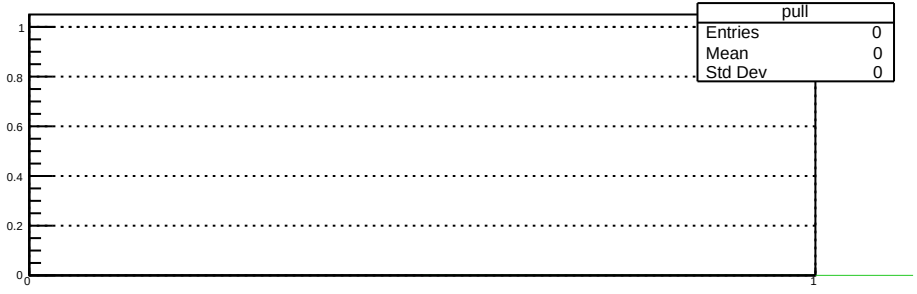
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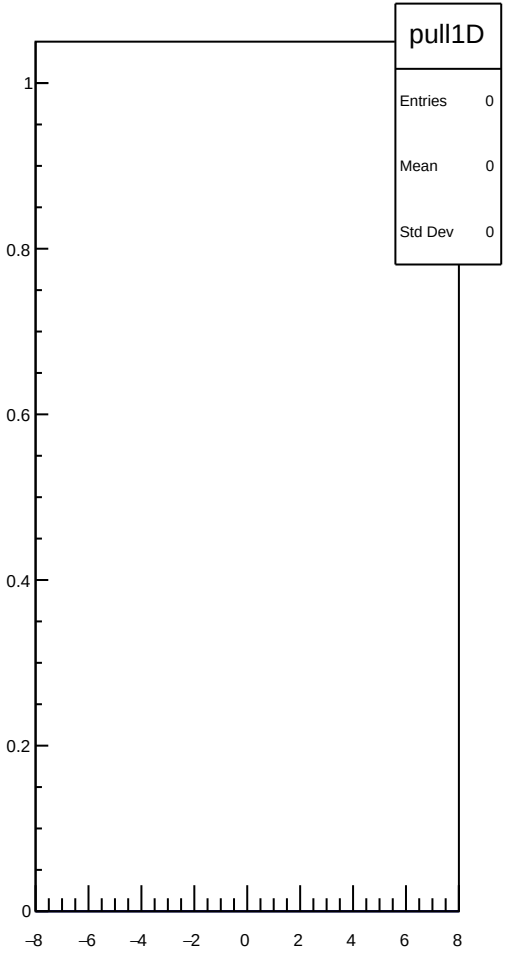
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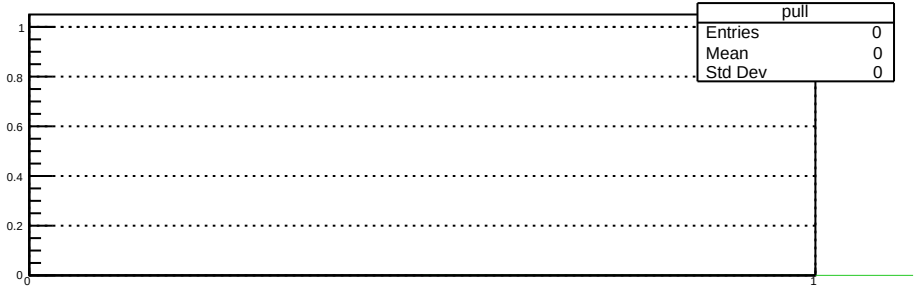
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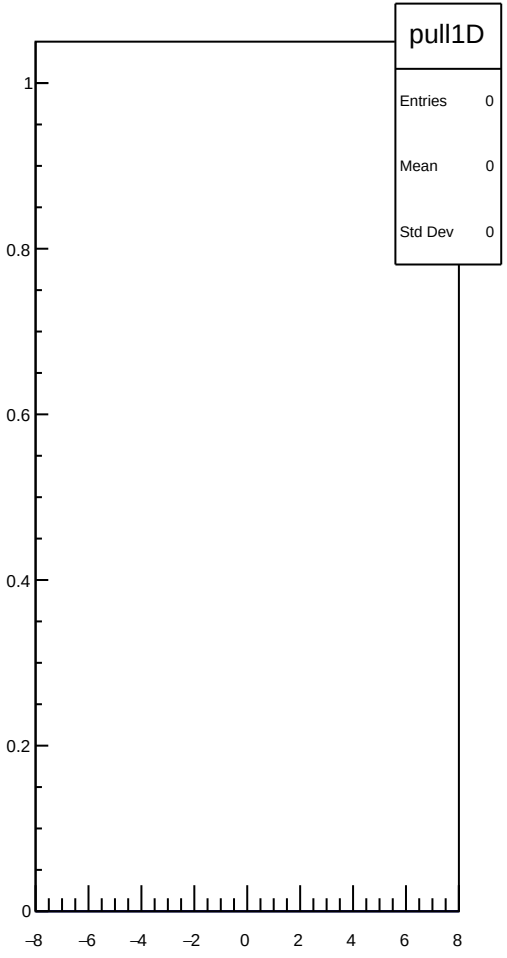
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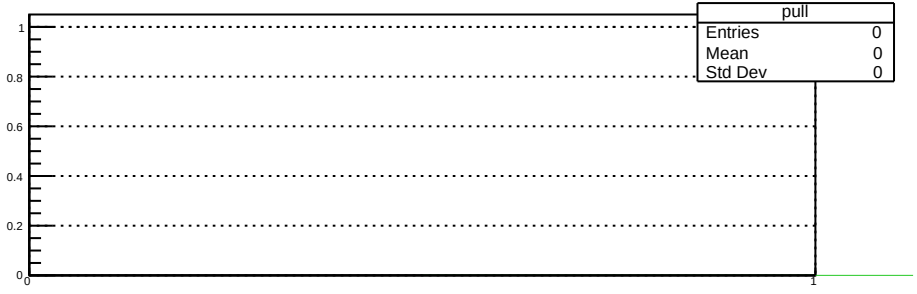
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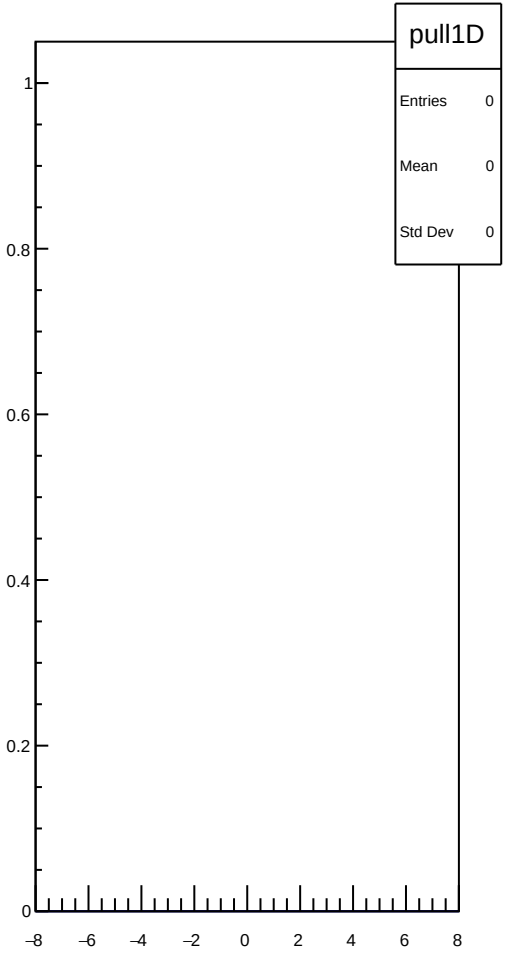
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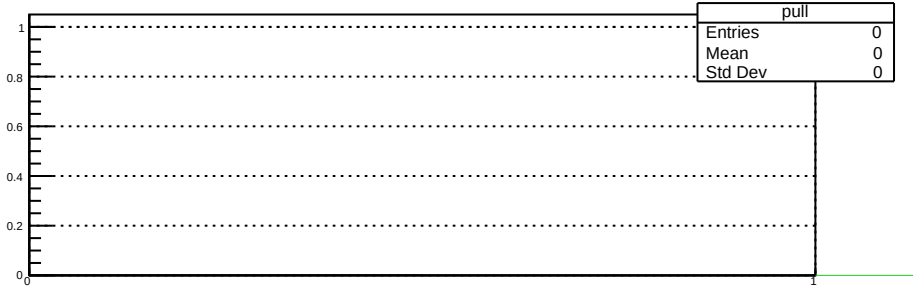
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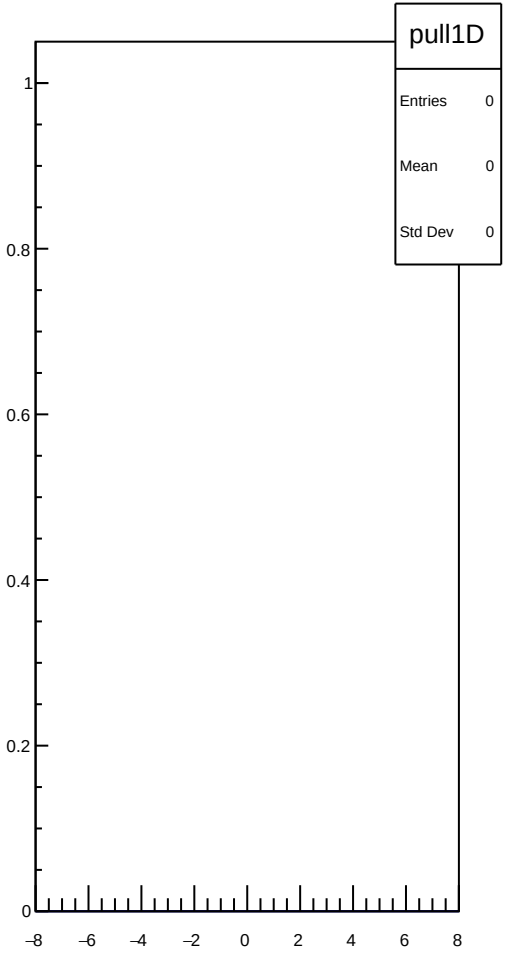
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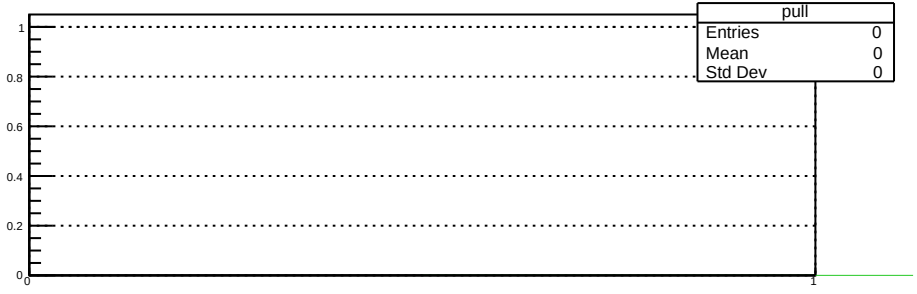
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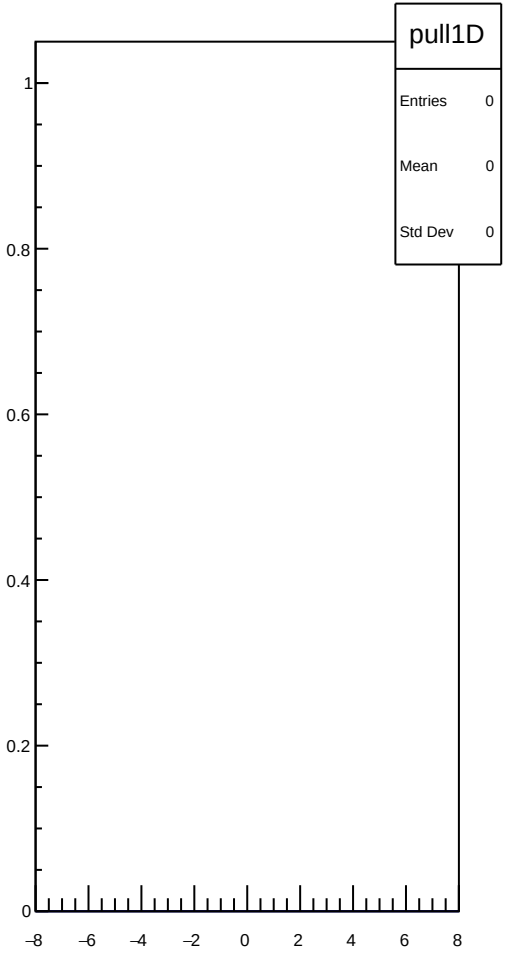
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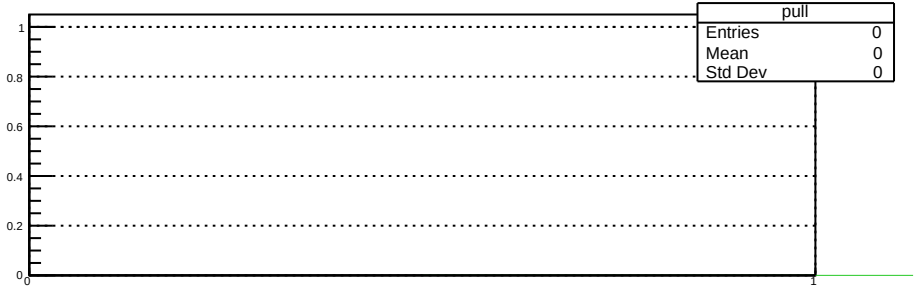
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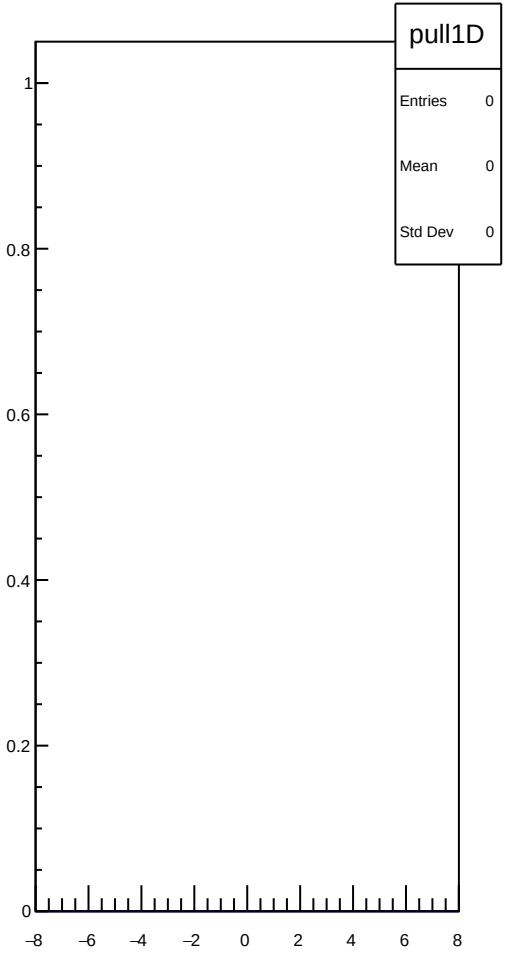
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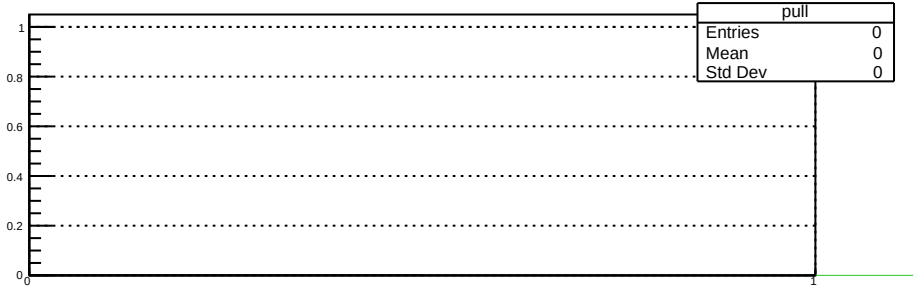
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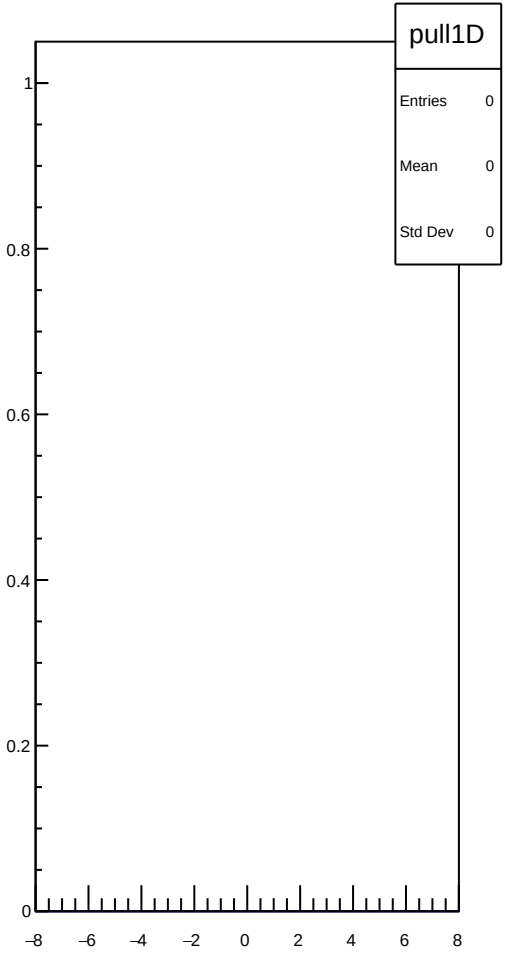
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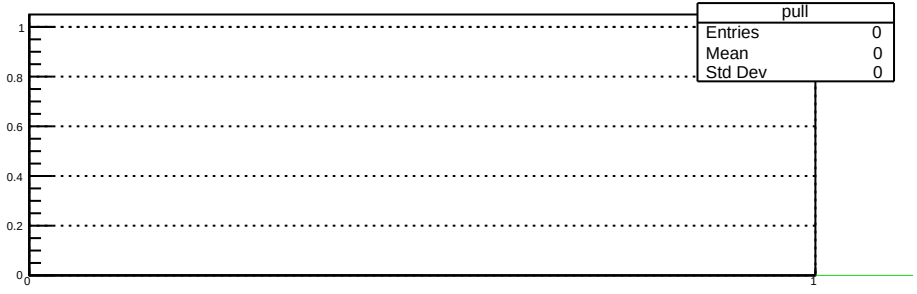
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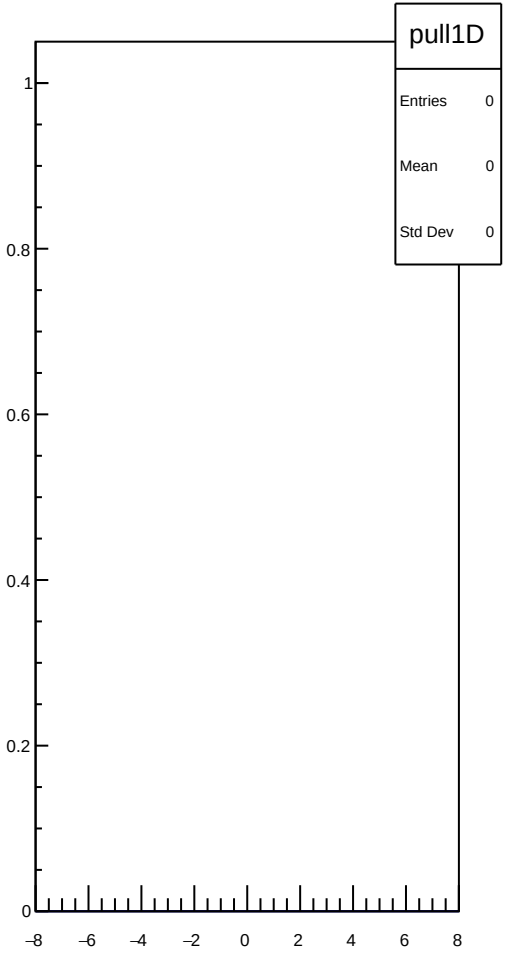
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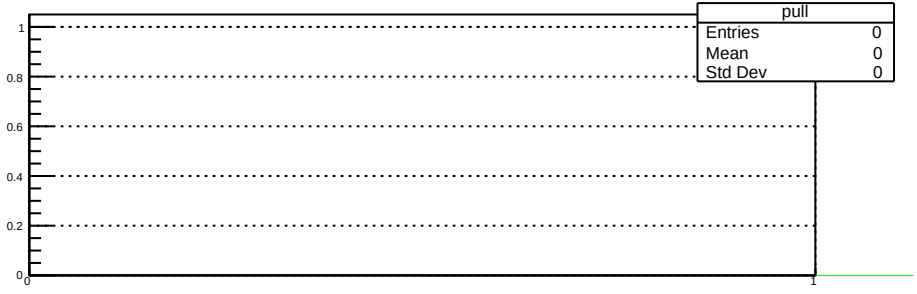
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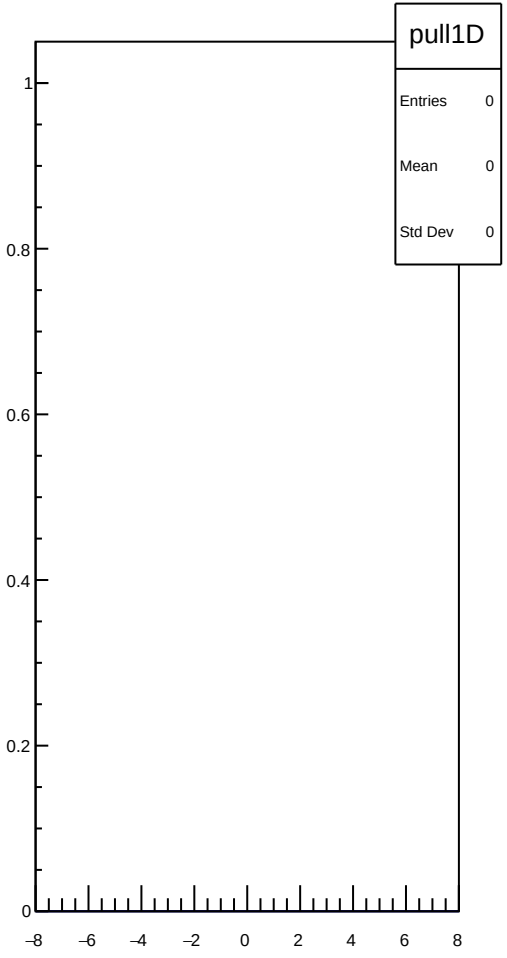
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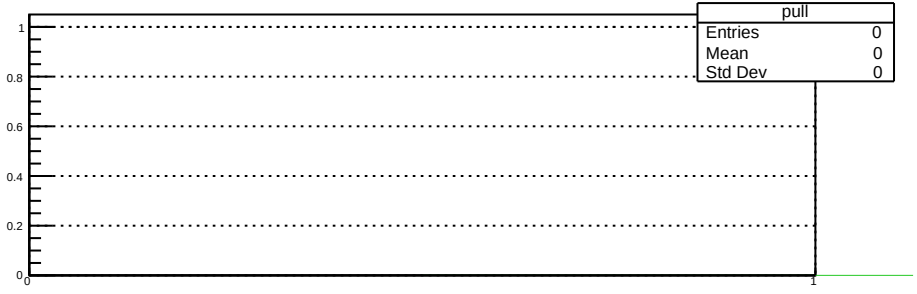
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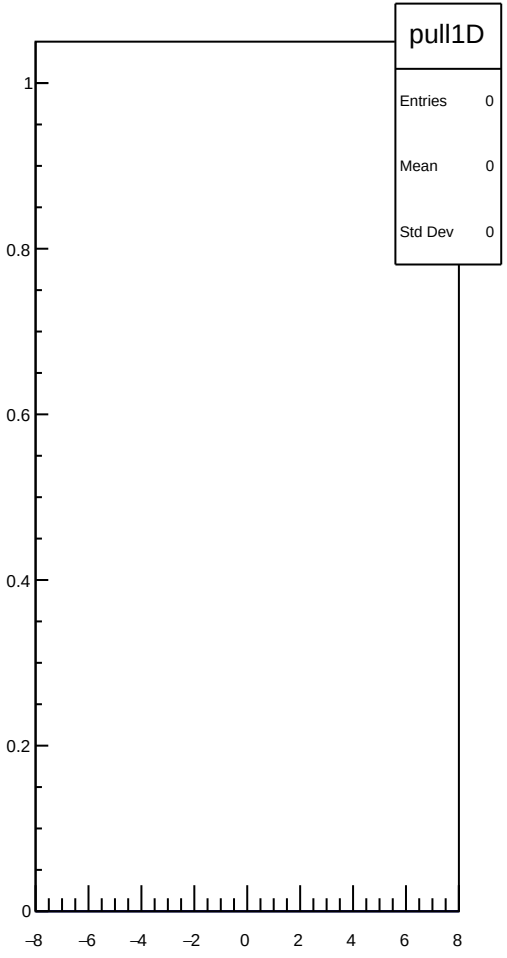
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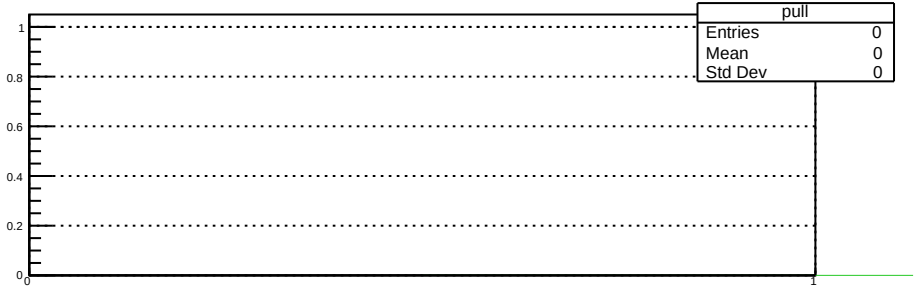
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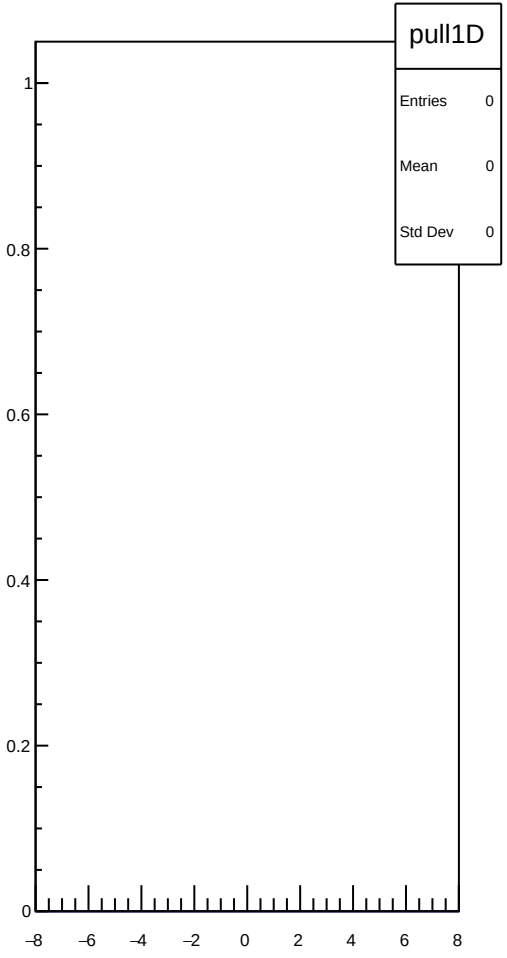
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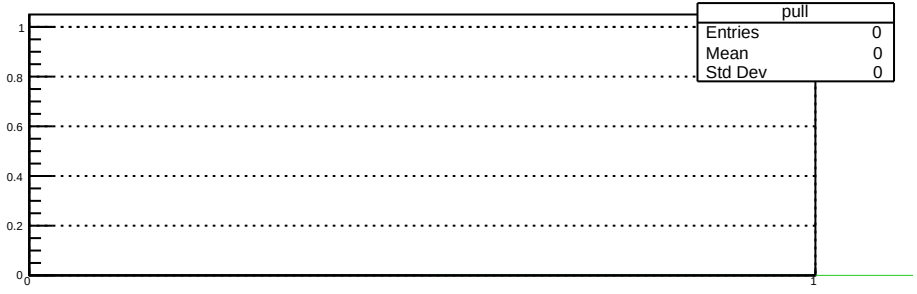
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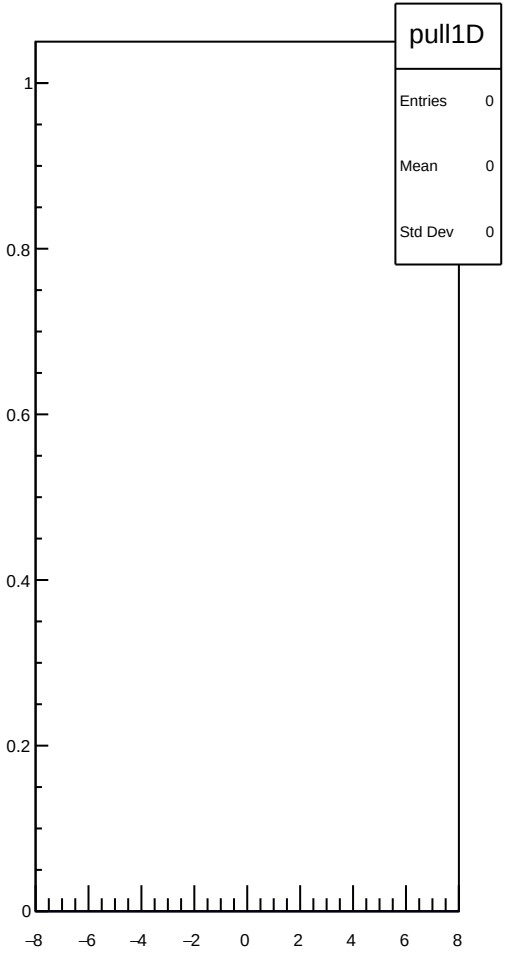
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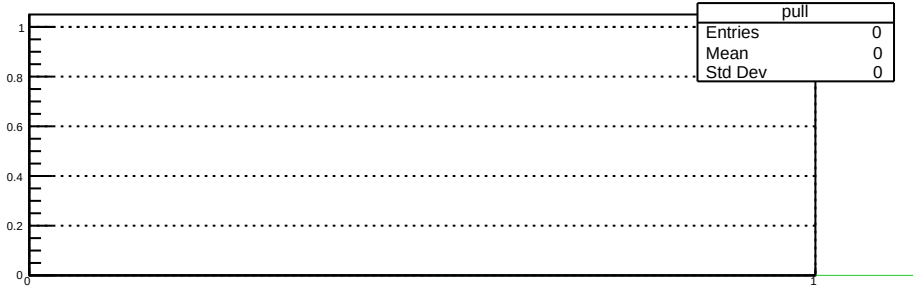
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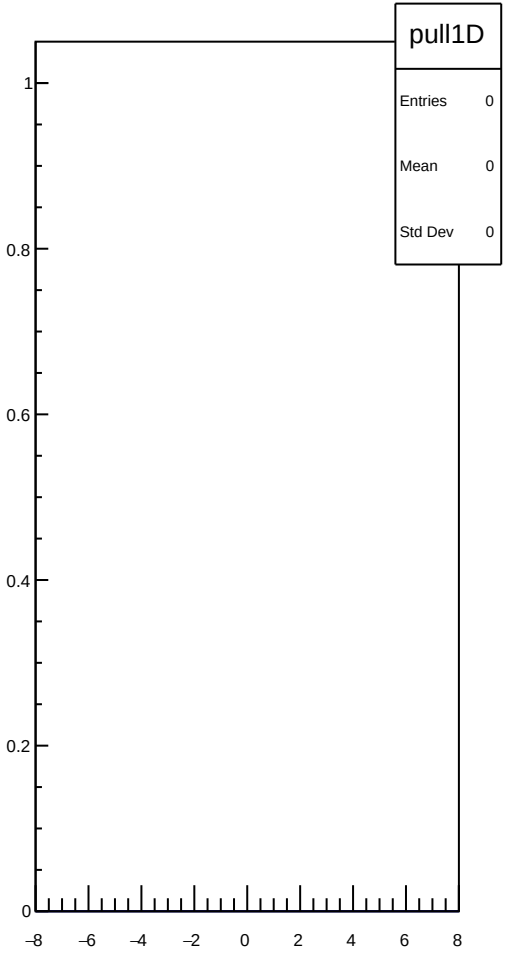
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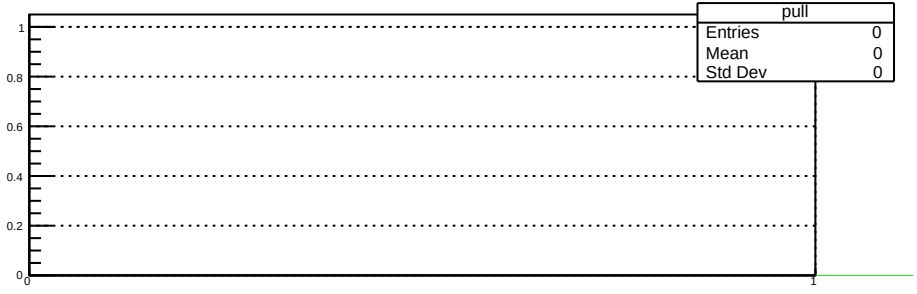
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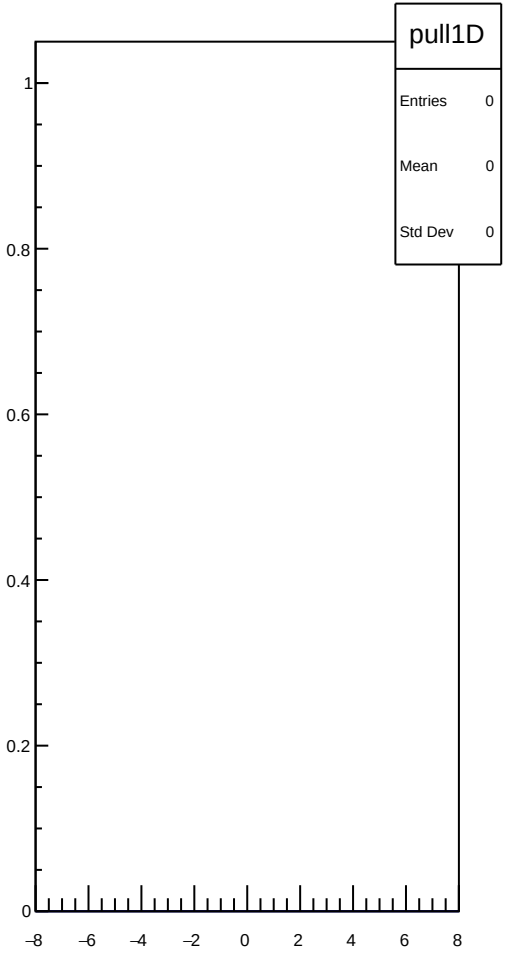
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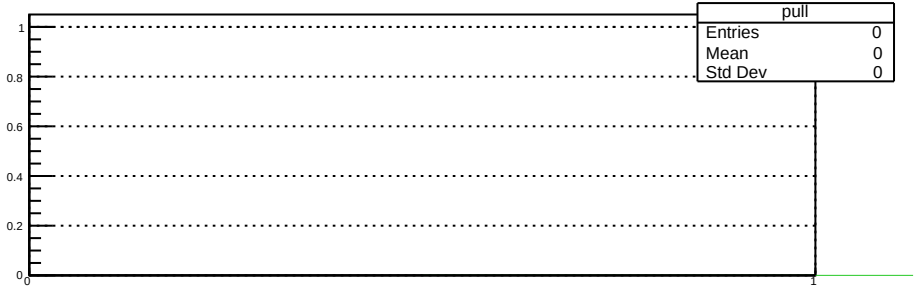
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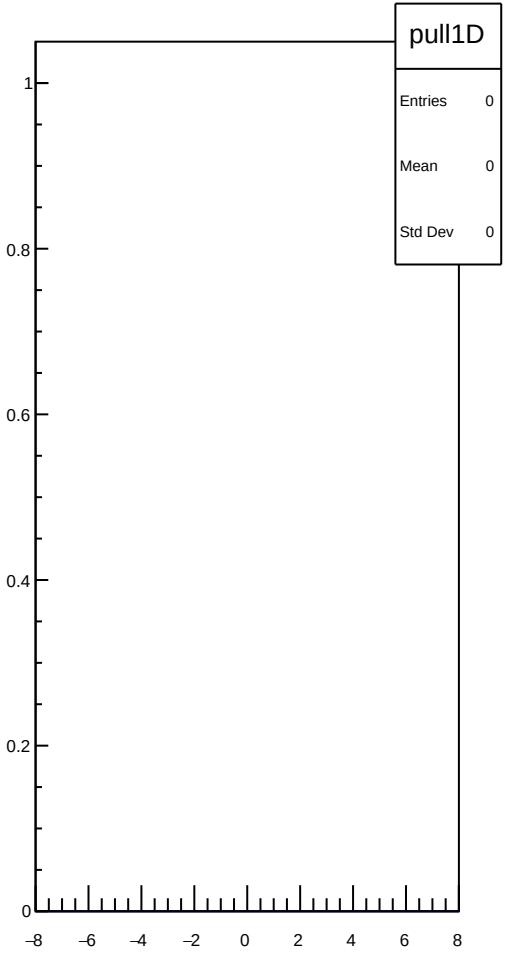
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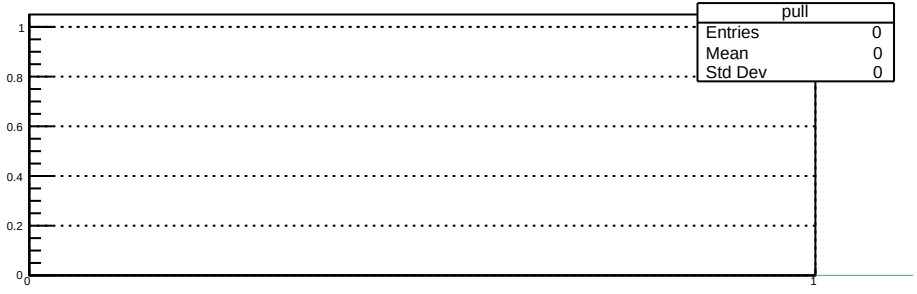
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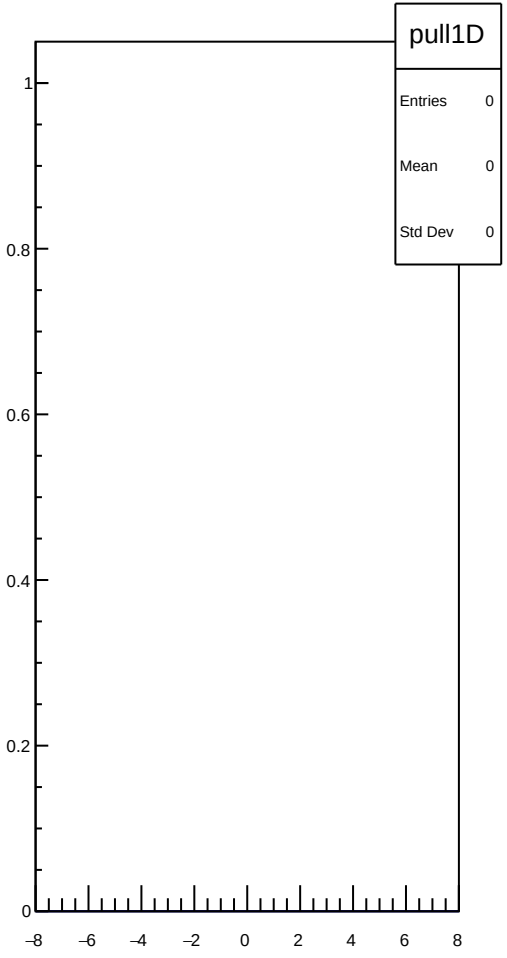
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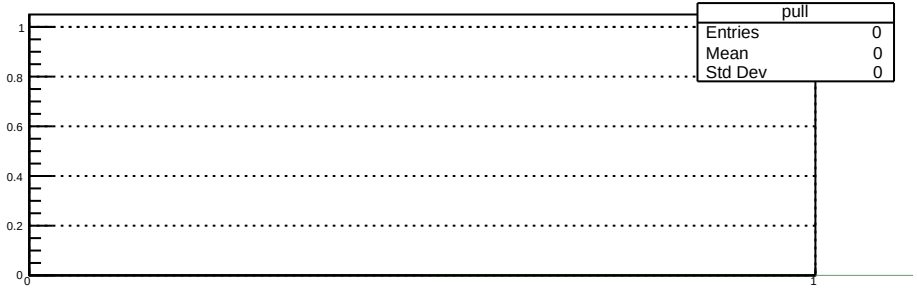
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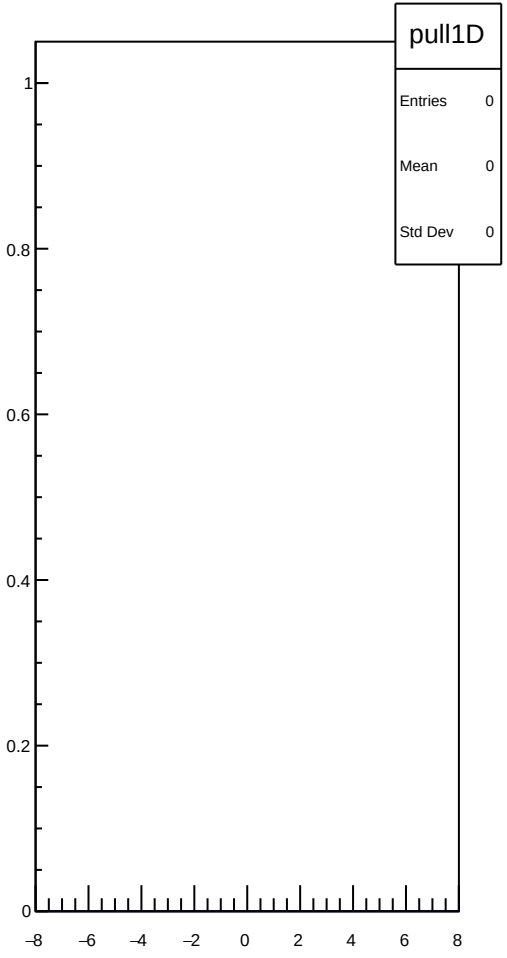
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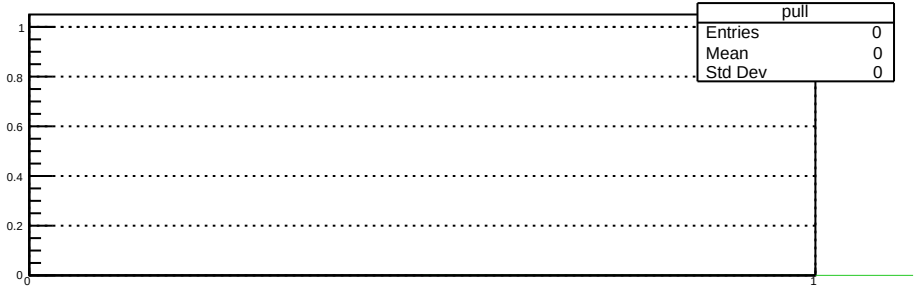
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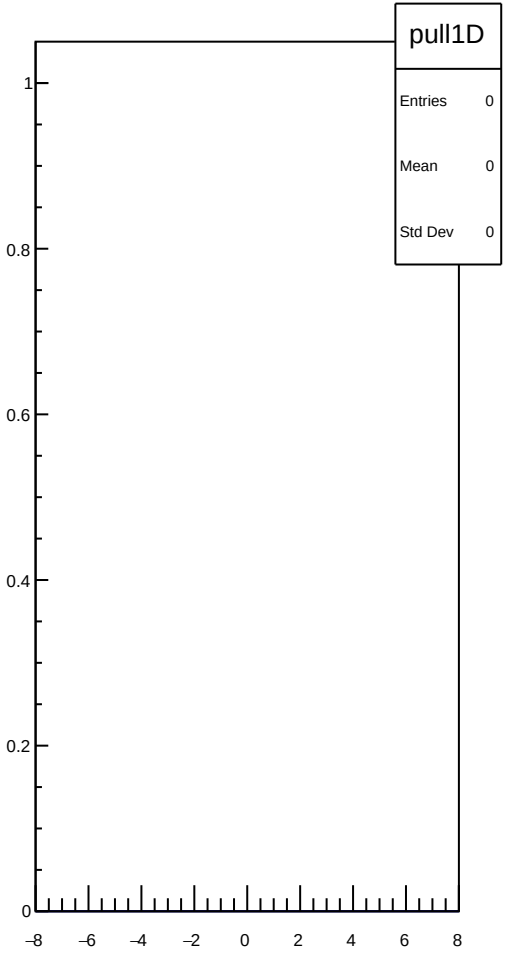
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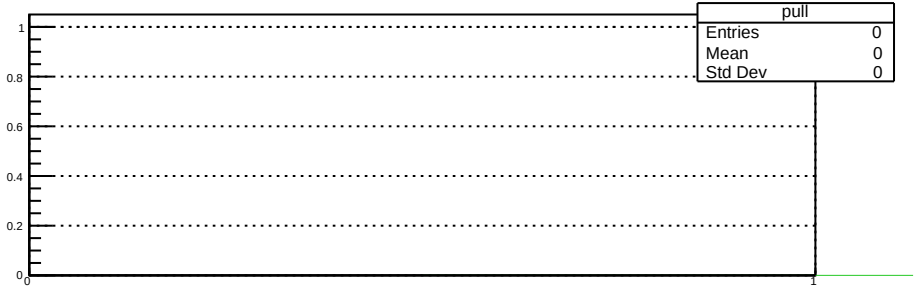
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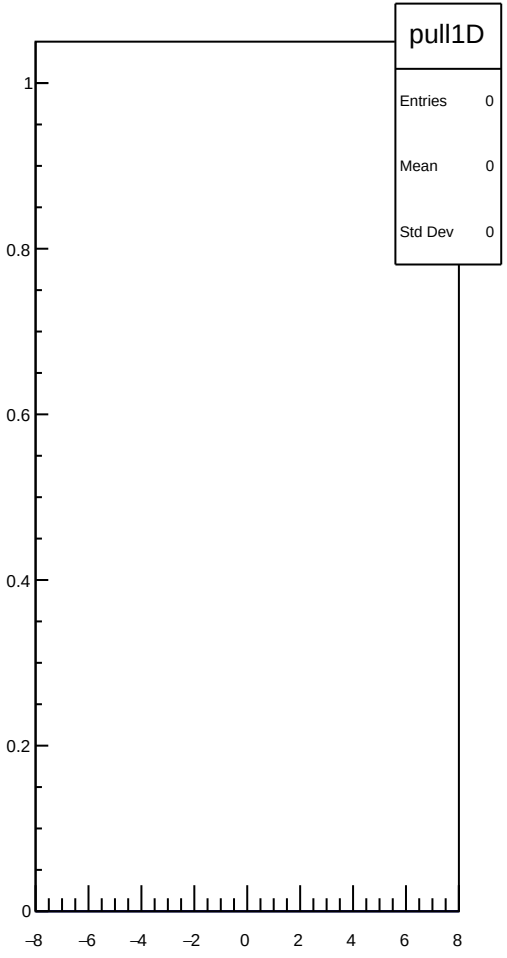
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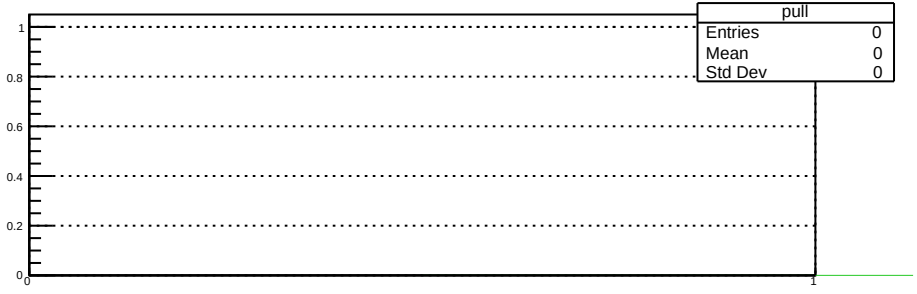
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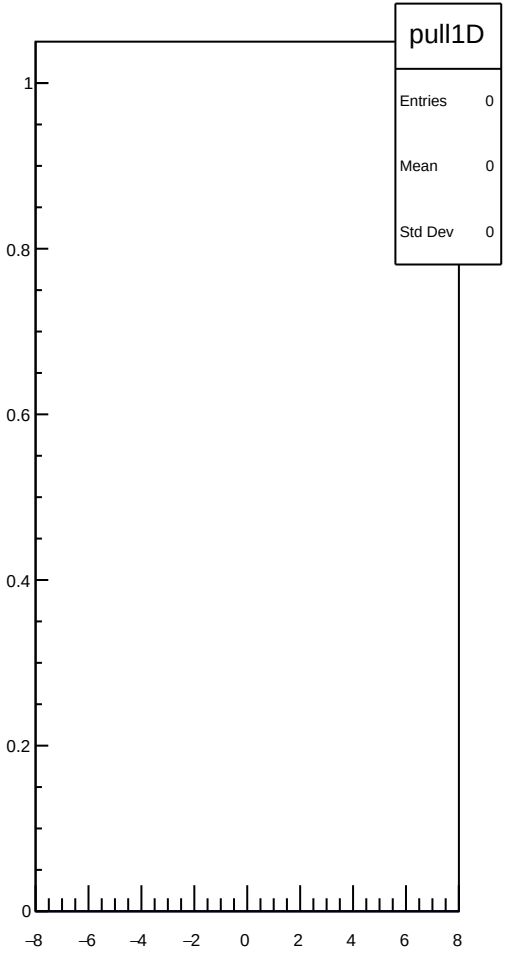
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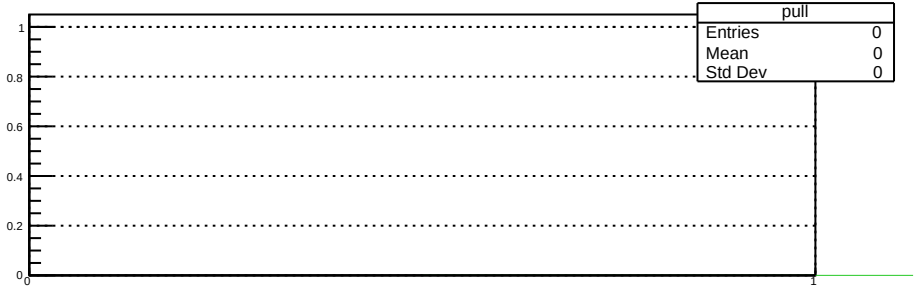
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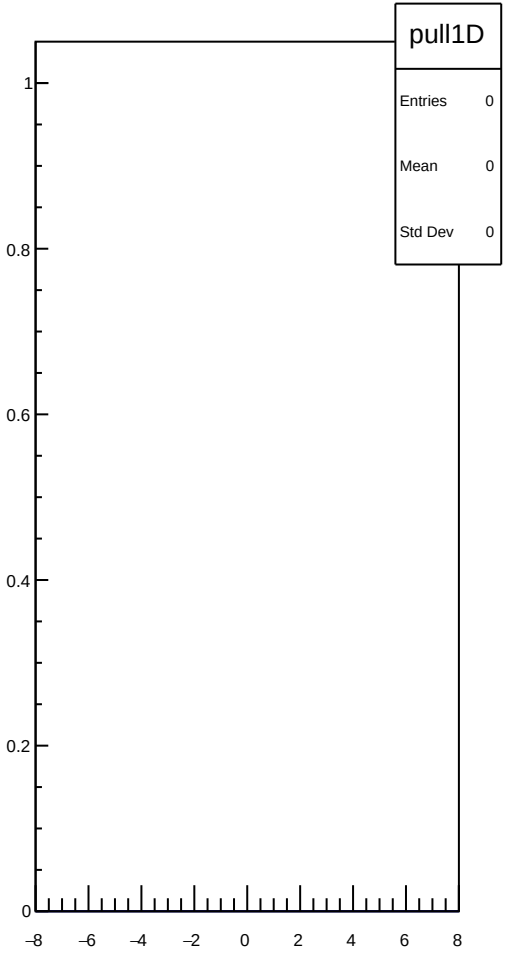
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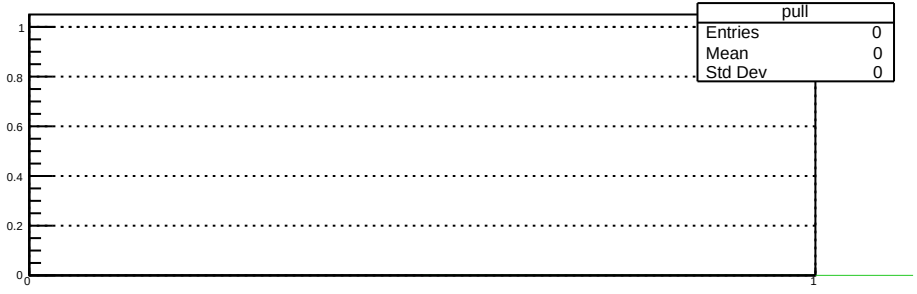
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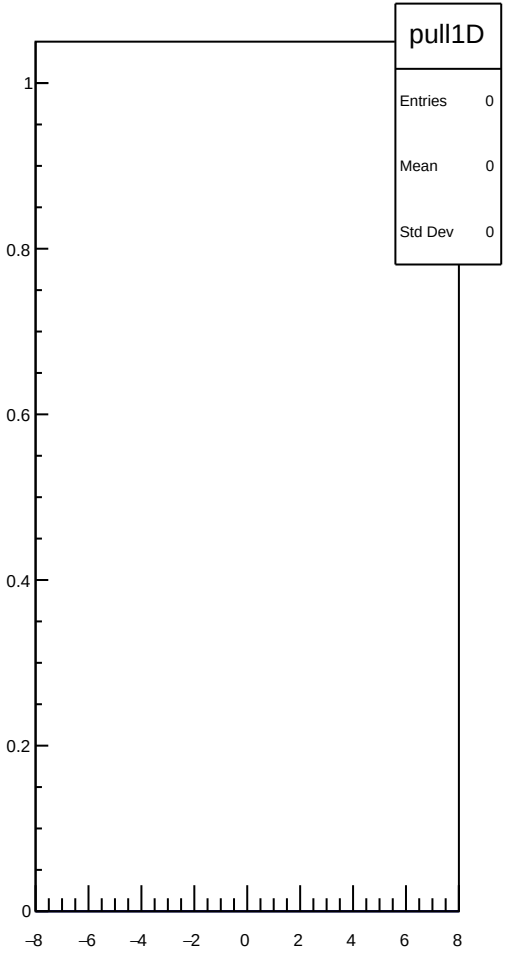
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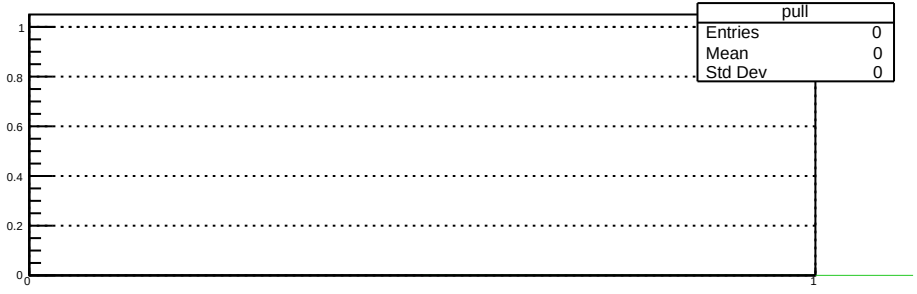
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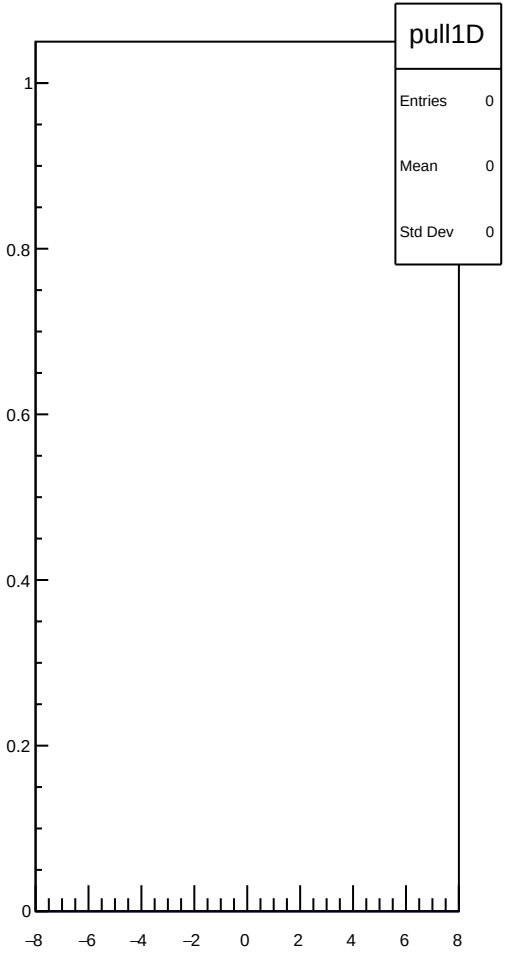
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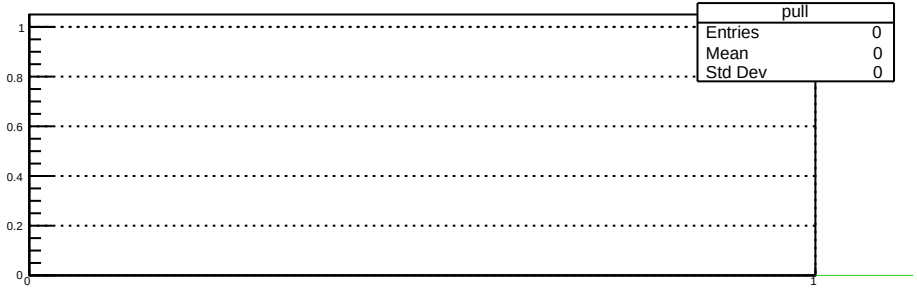
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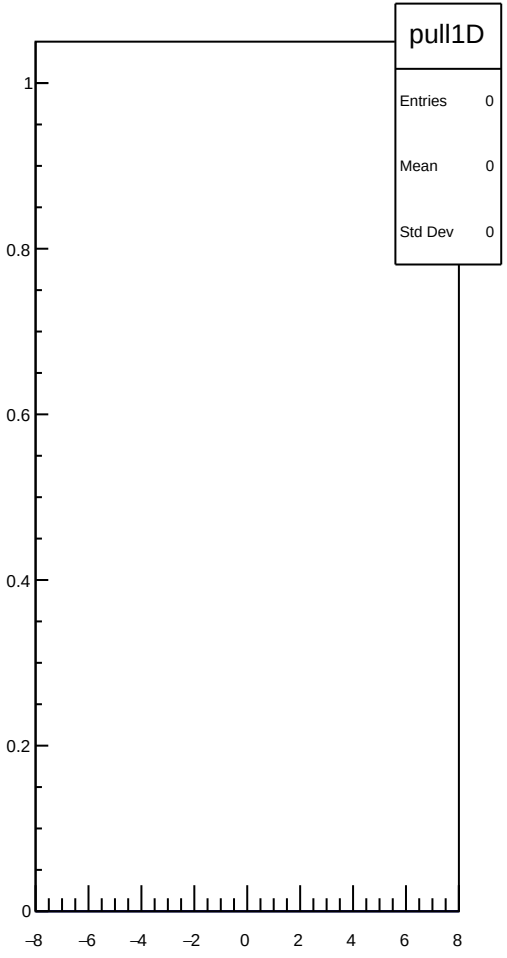
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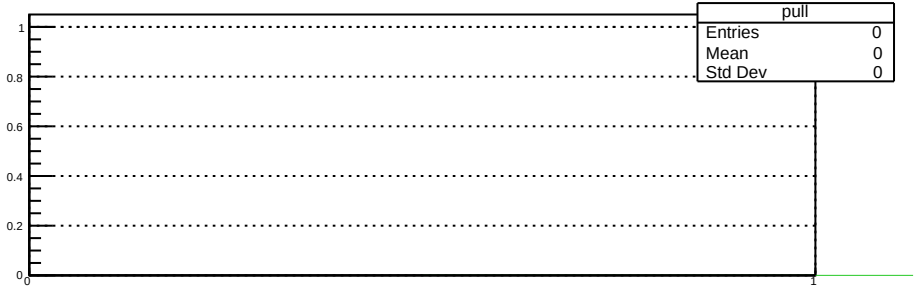
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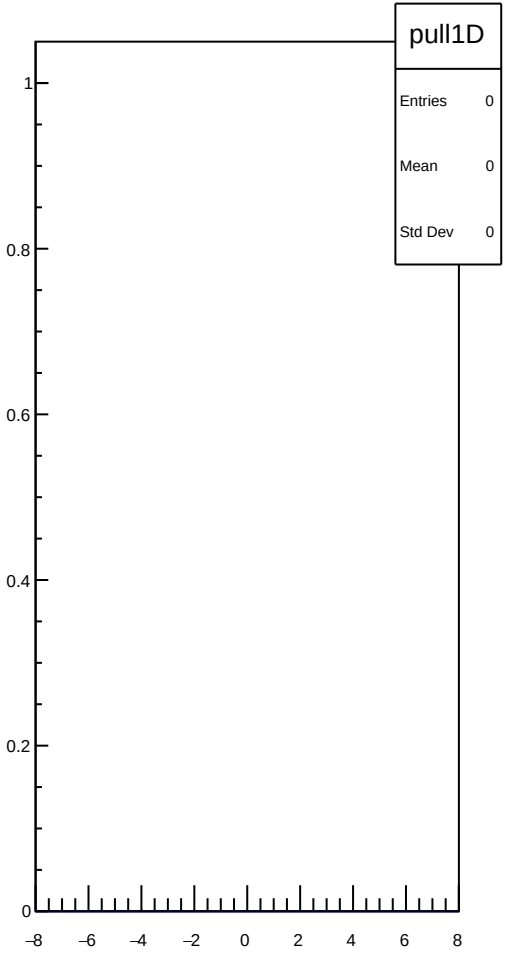
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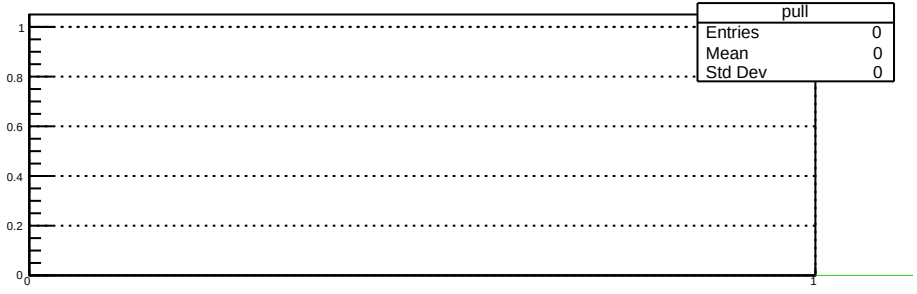
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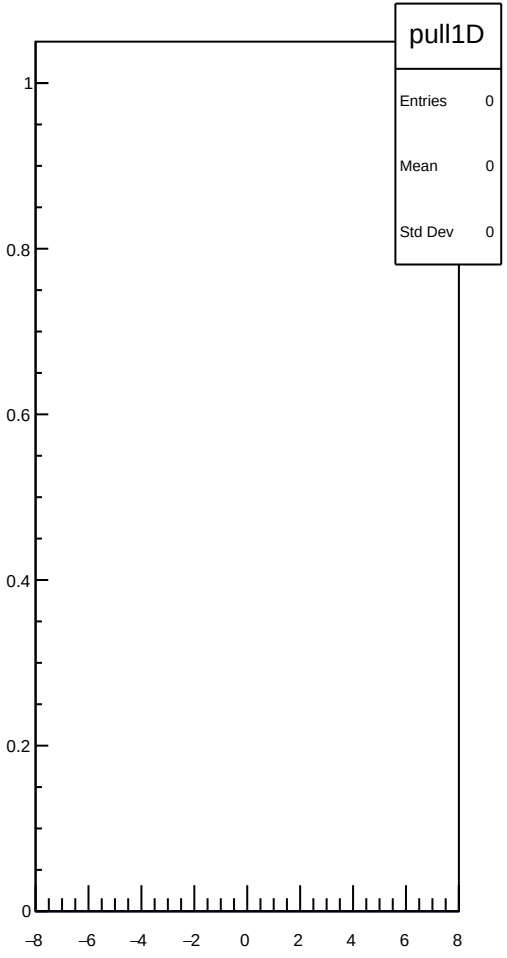
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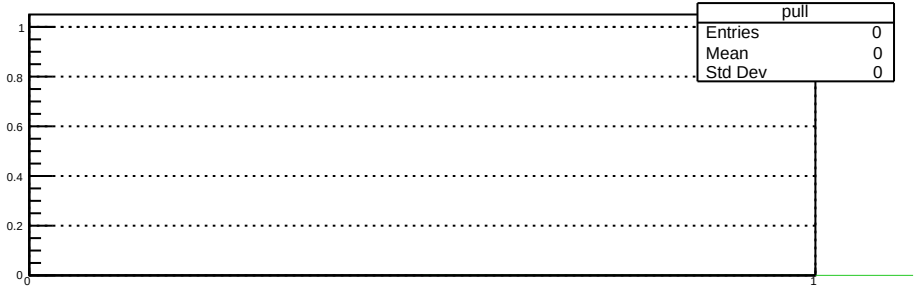
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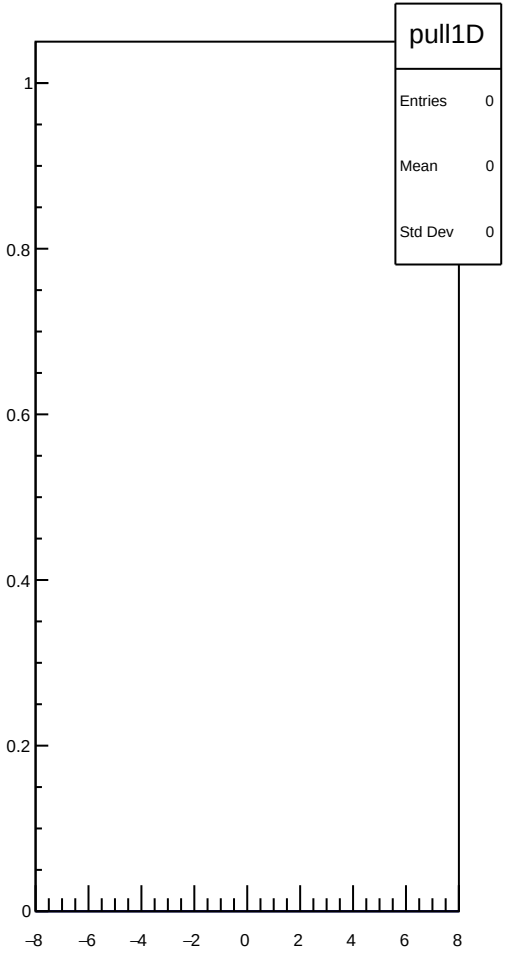
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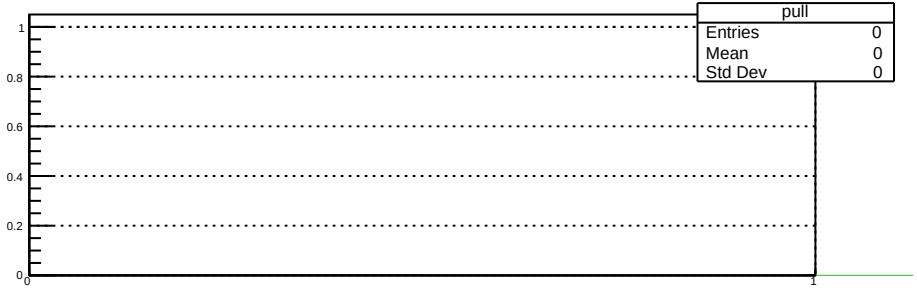
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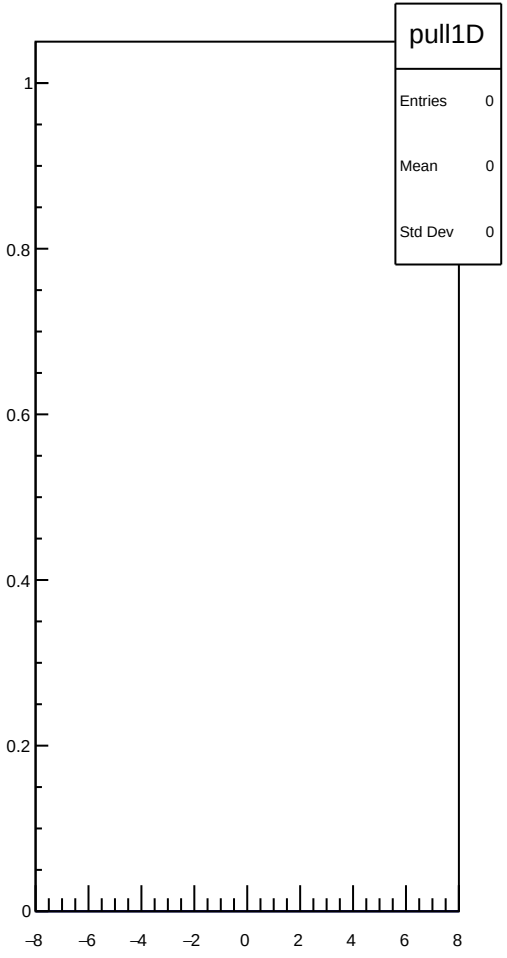
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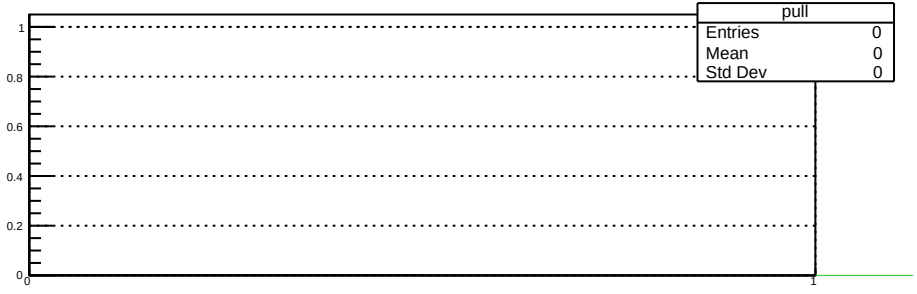
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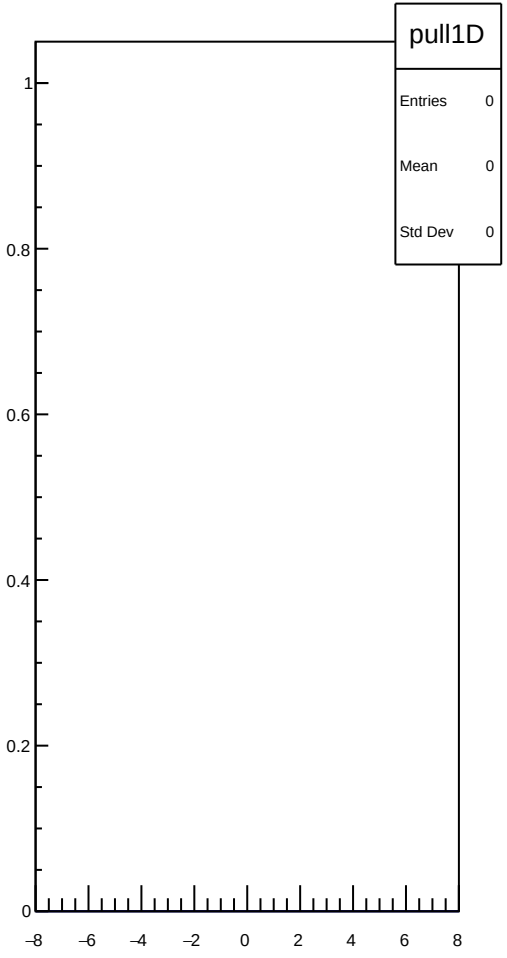
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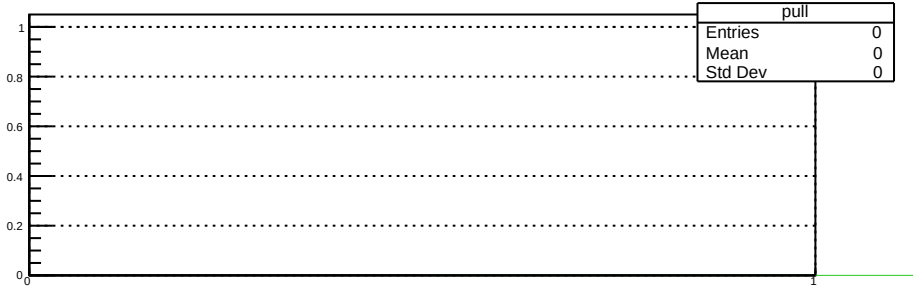
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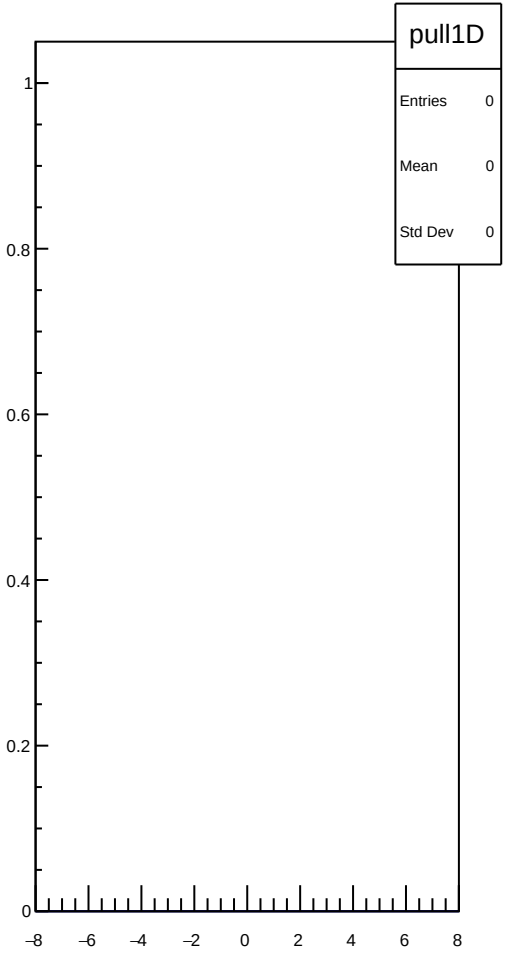
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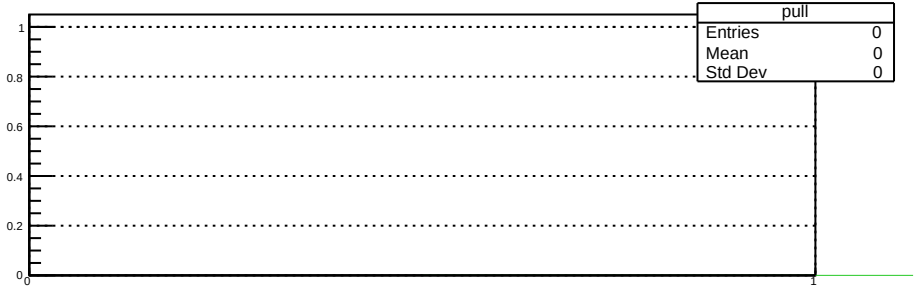
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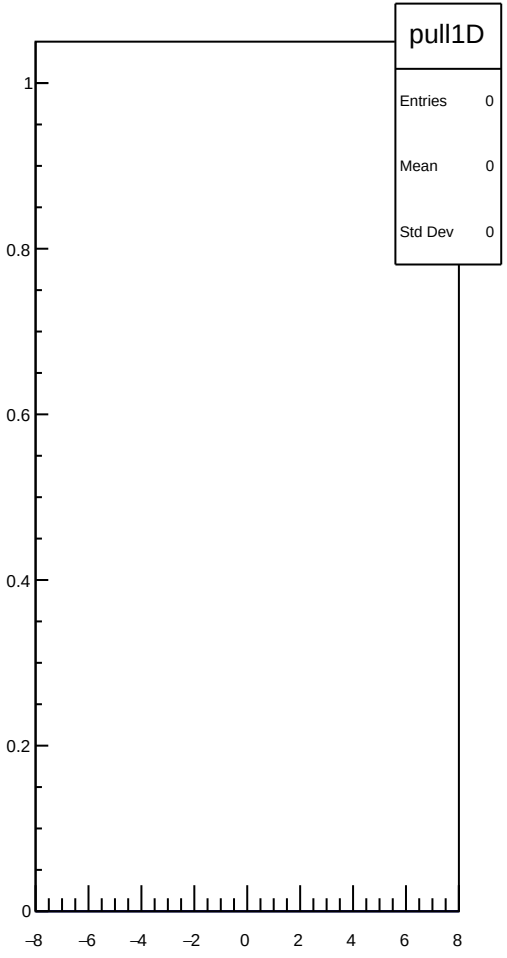
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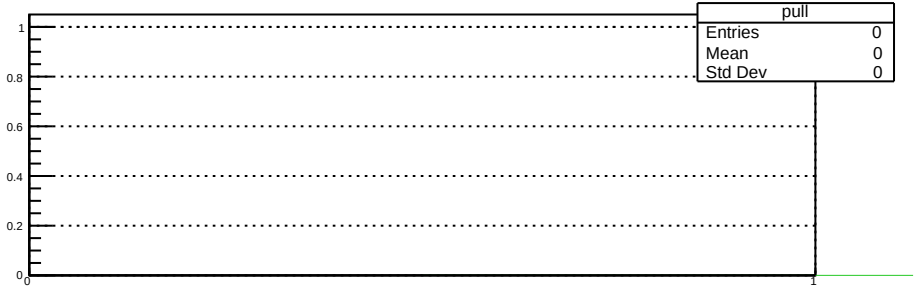
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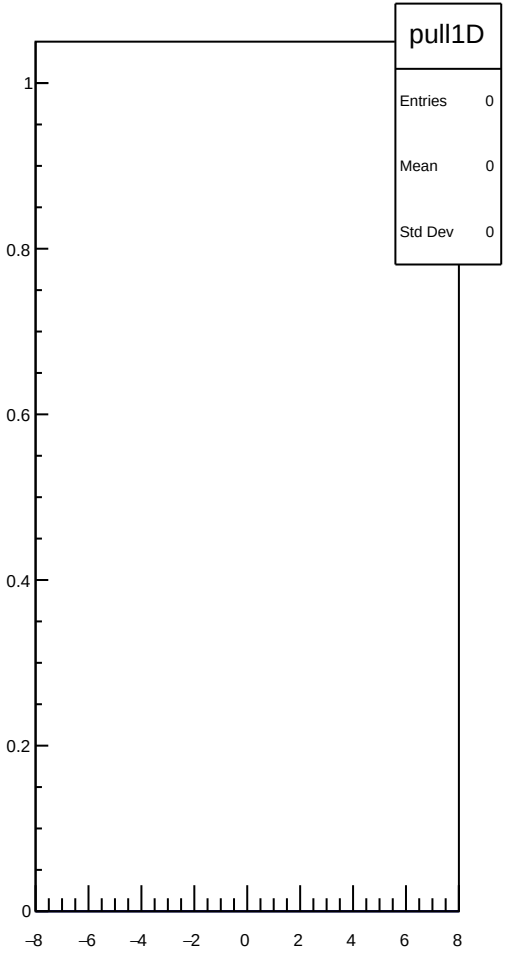
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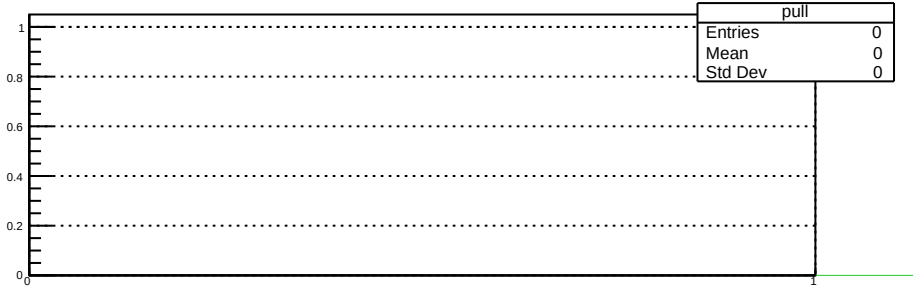
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Std Dev 0
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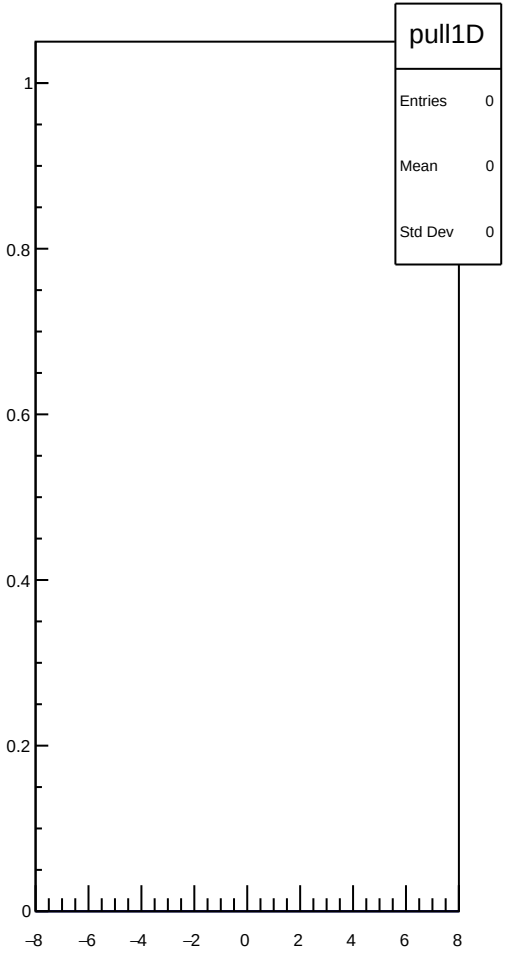
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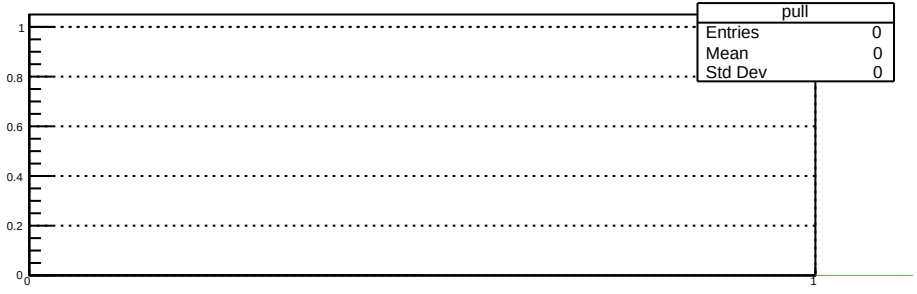
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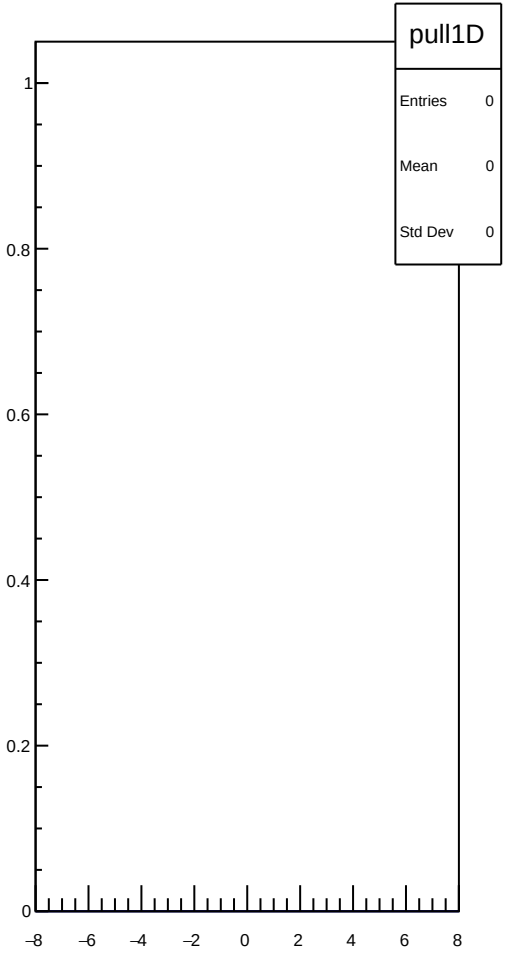
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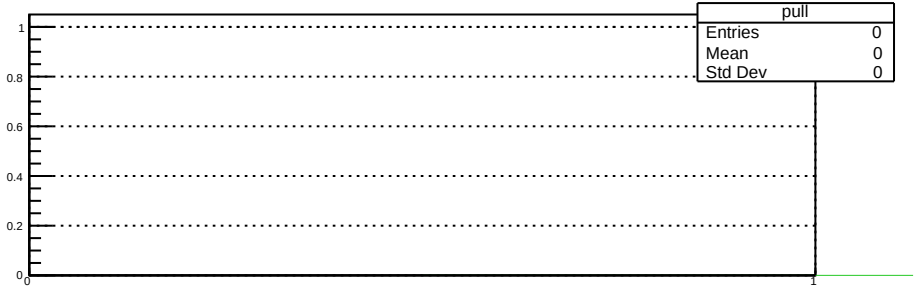
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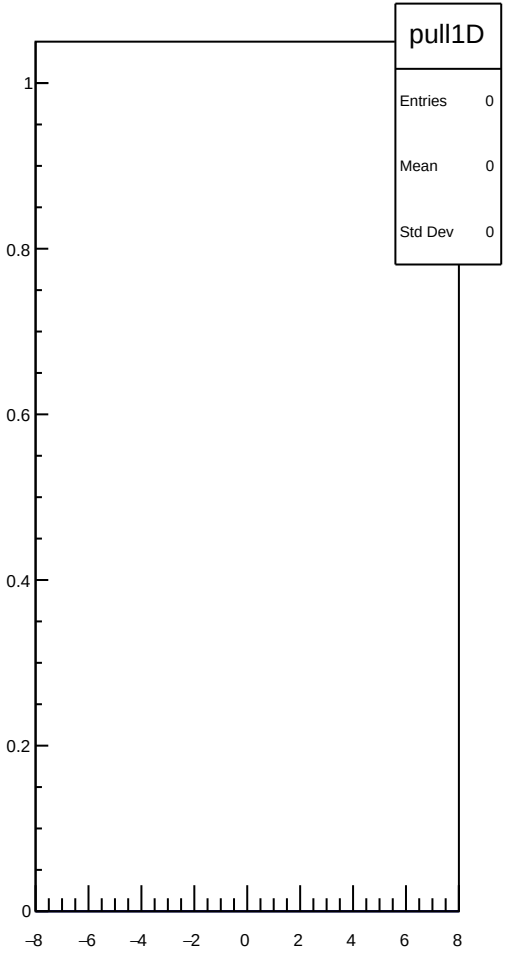
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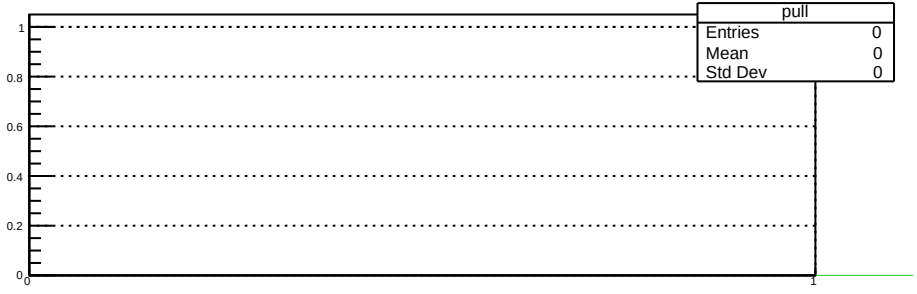
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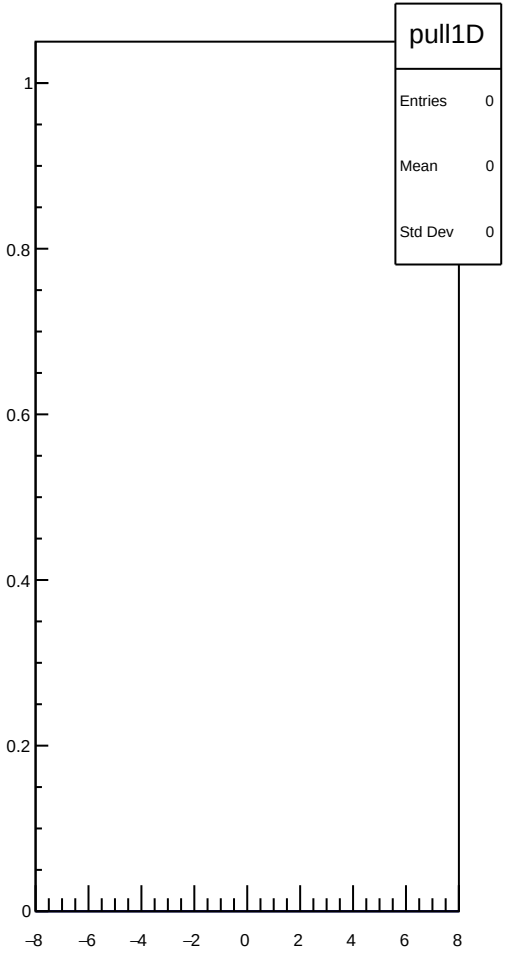
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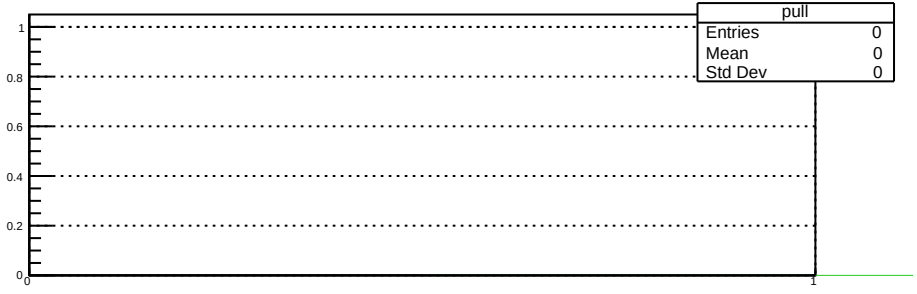
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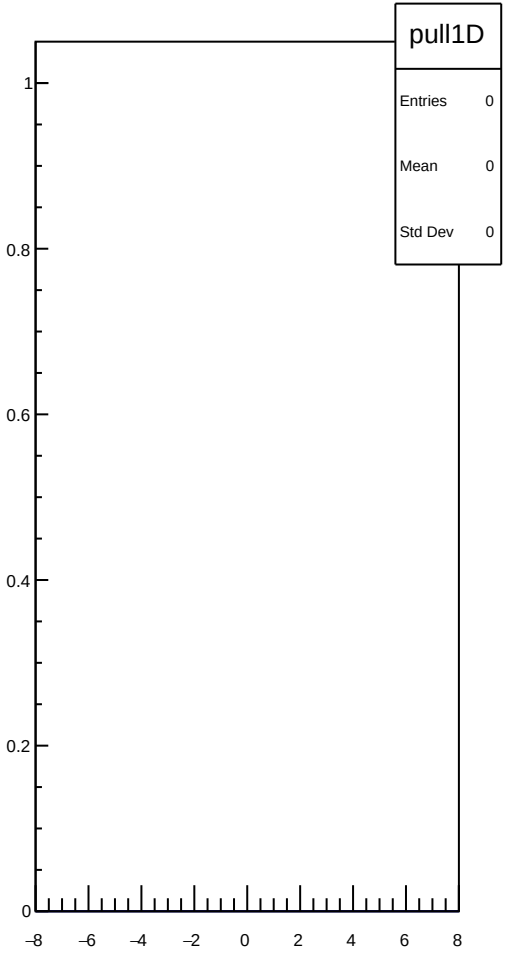
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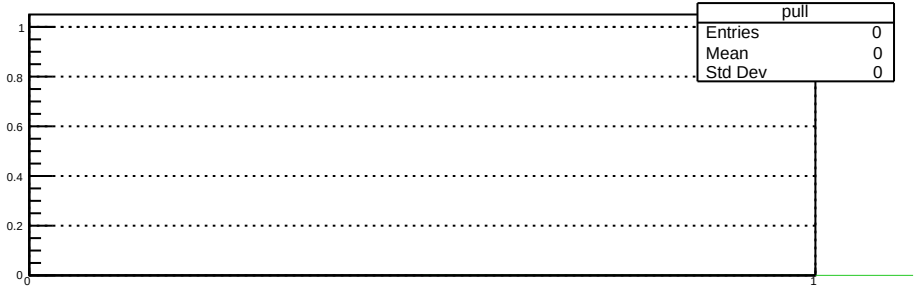
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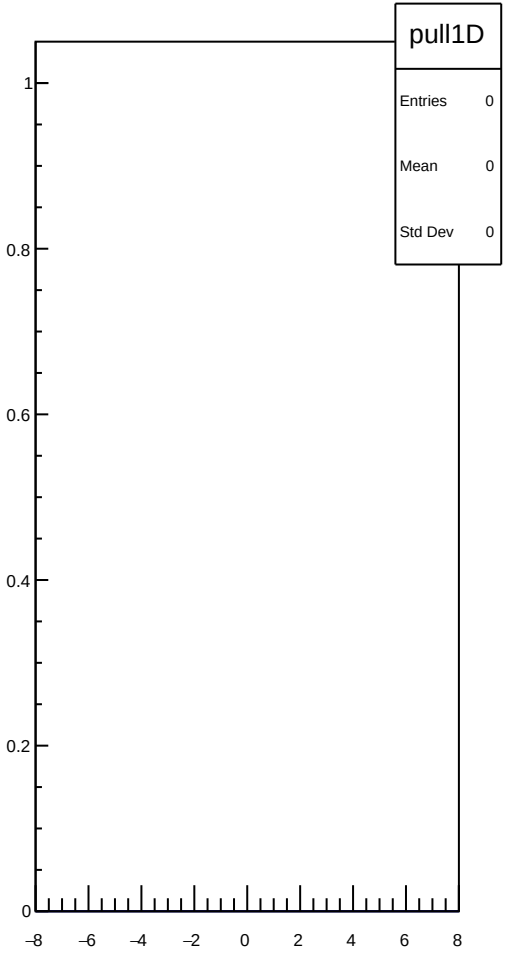
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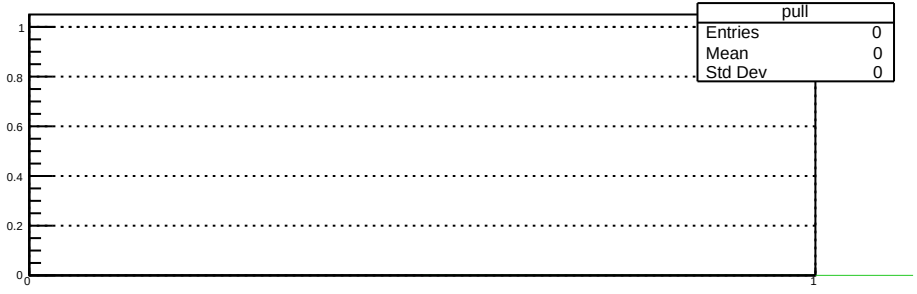
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Std Dev 0
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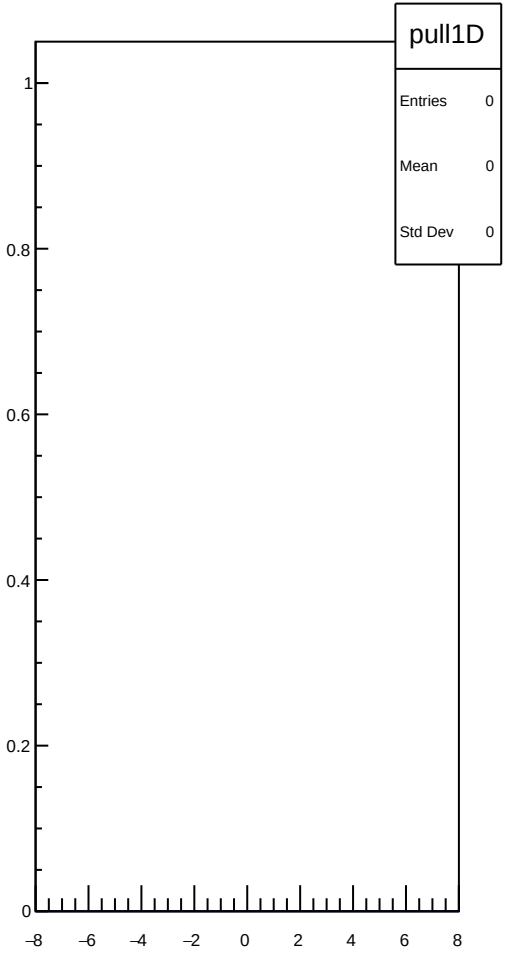
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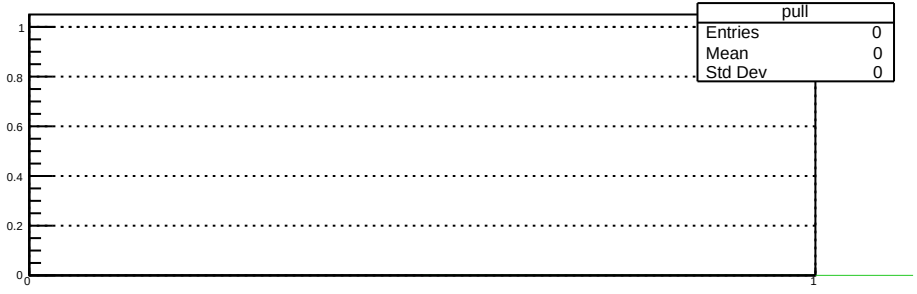
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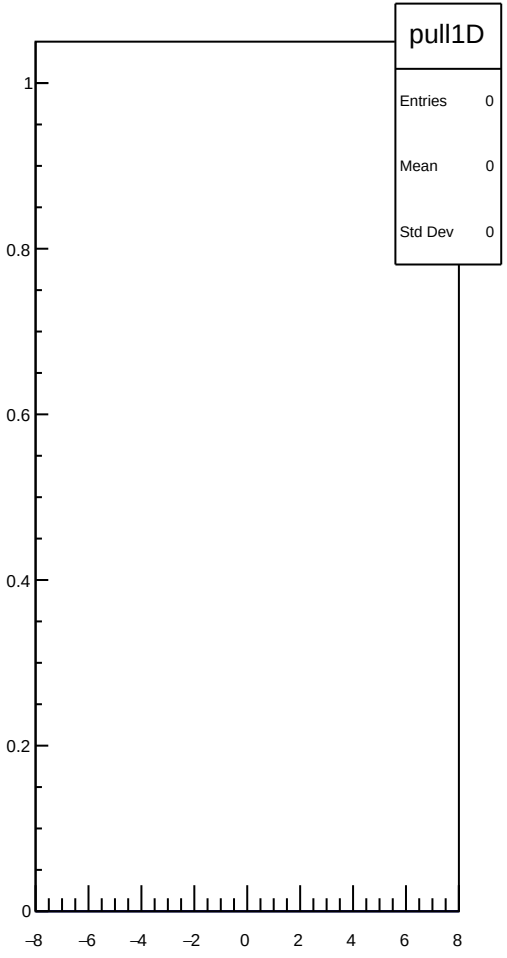
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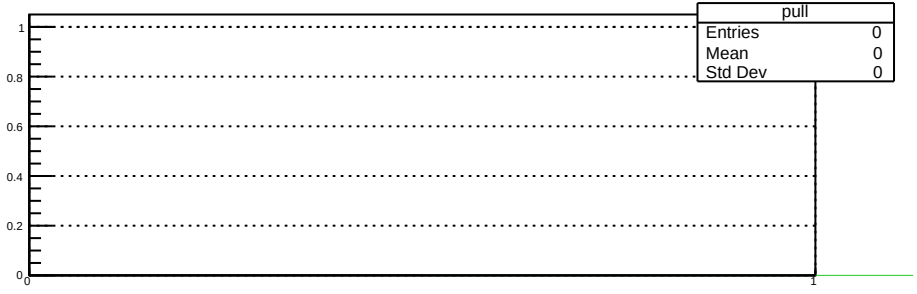
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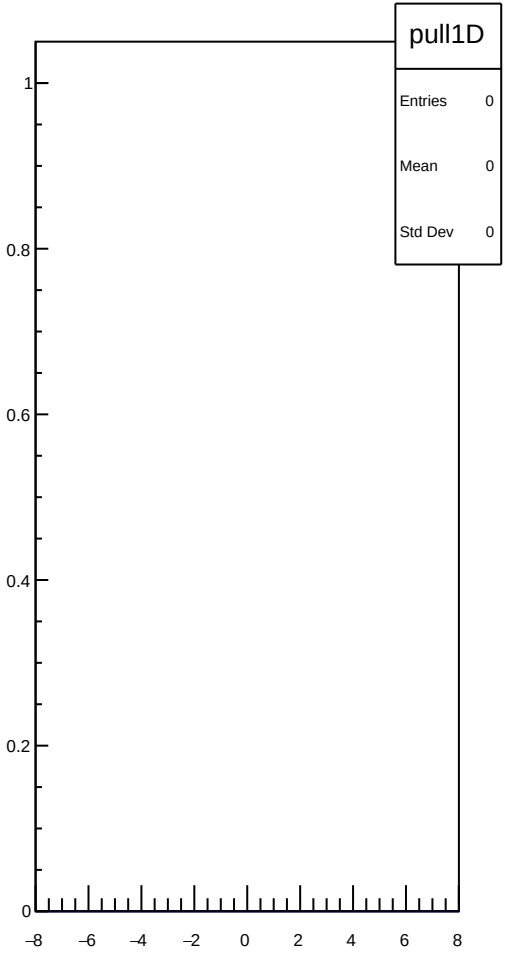
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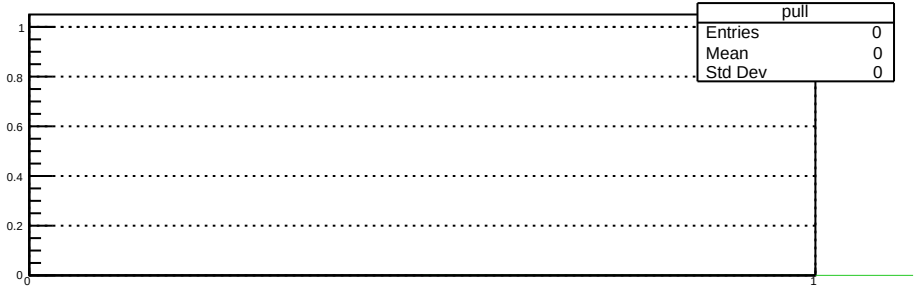
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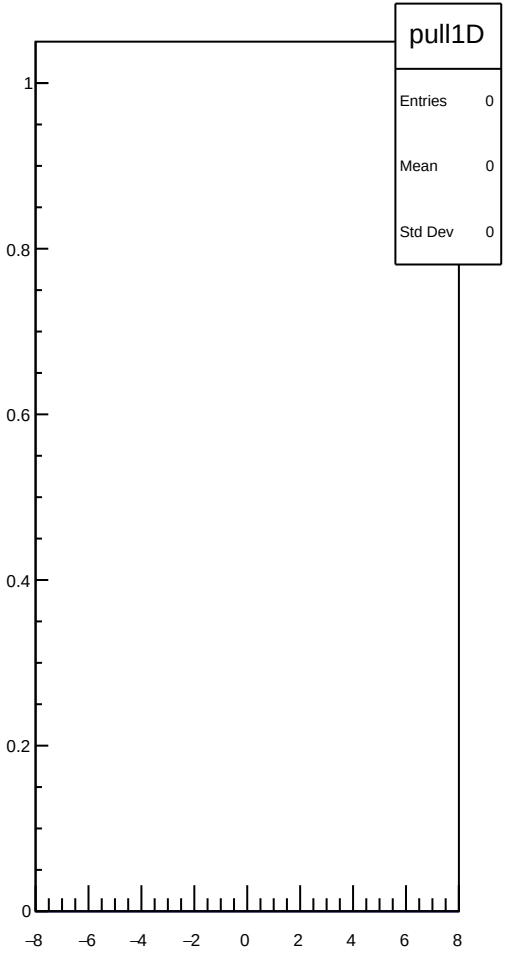
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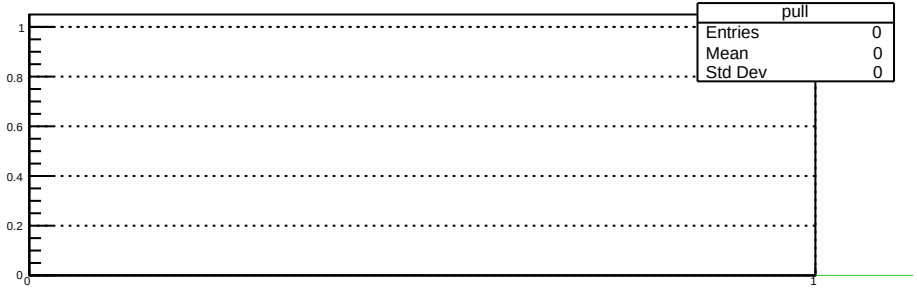
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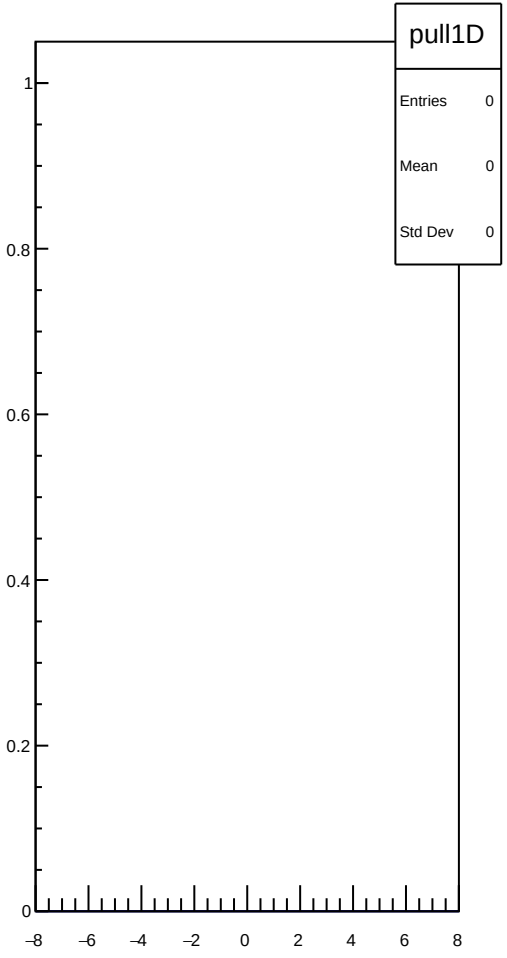
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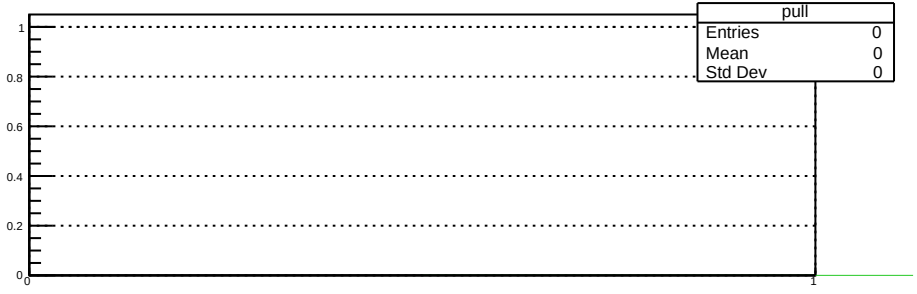
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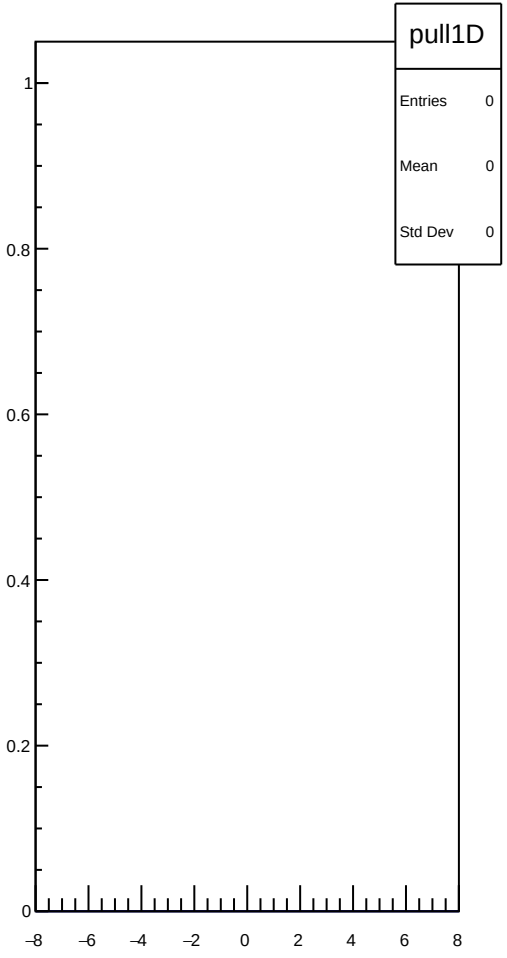
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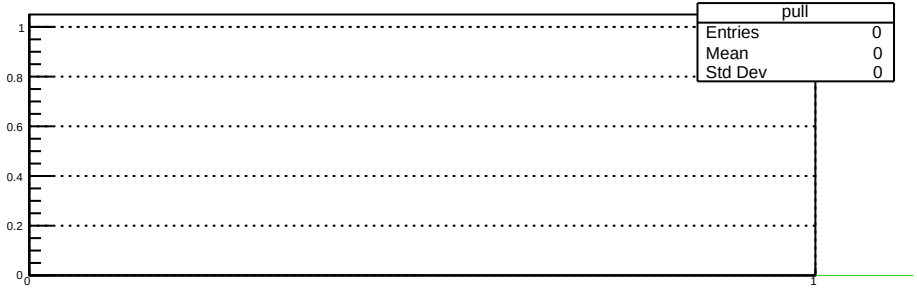
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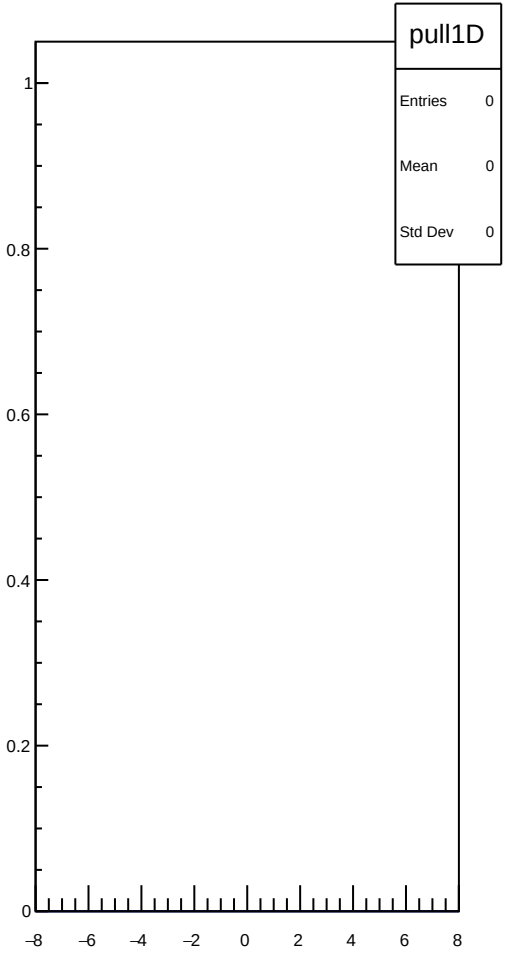
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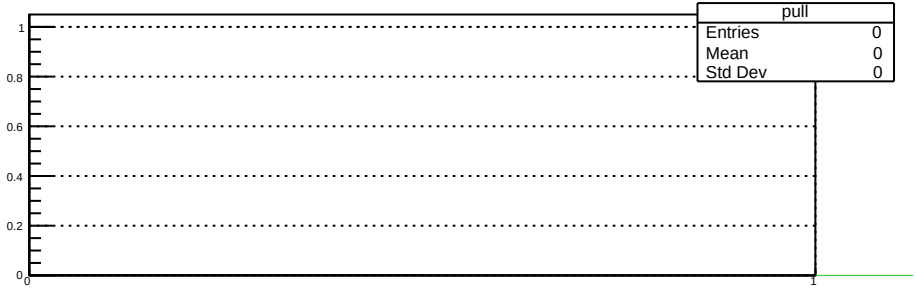
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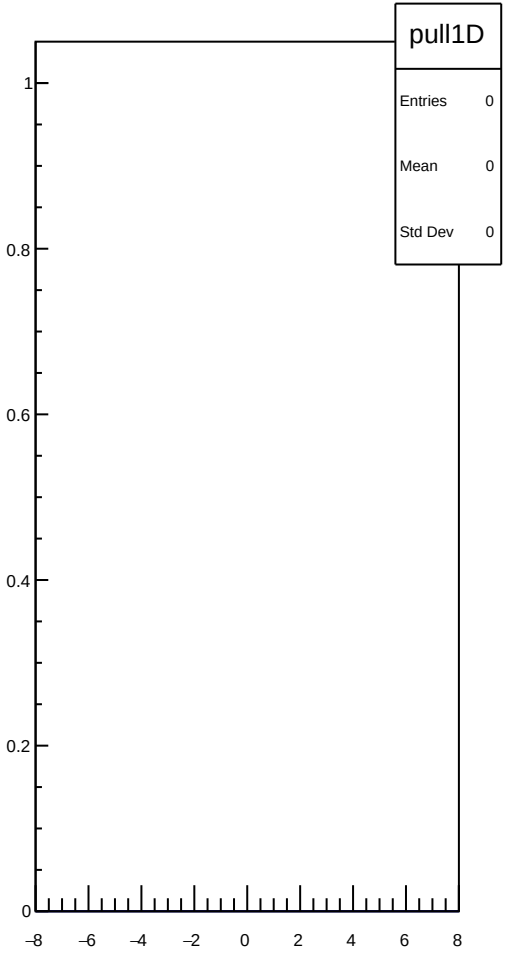
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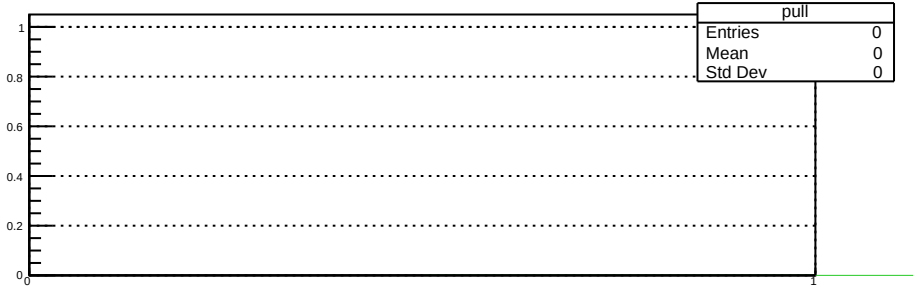
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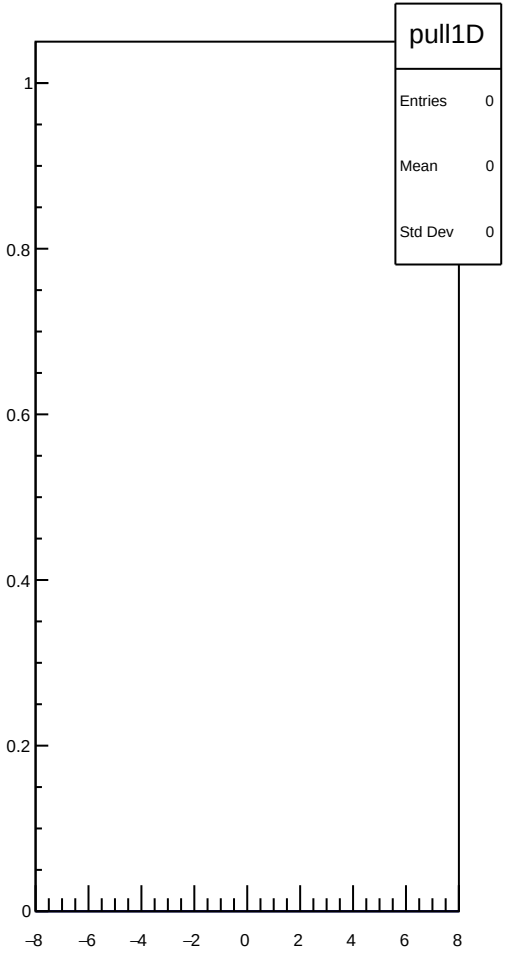
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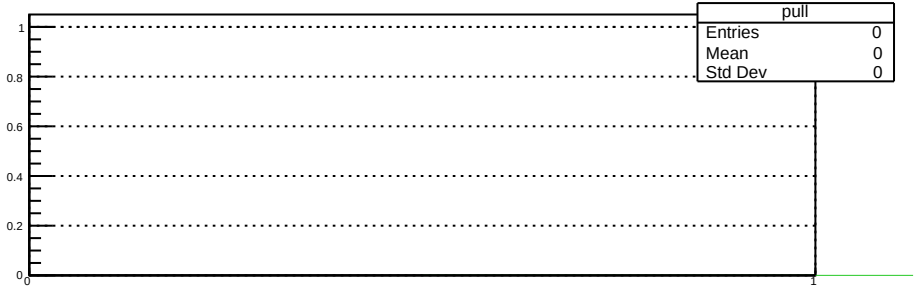
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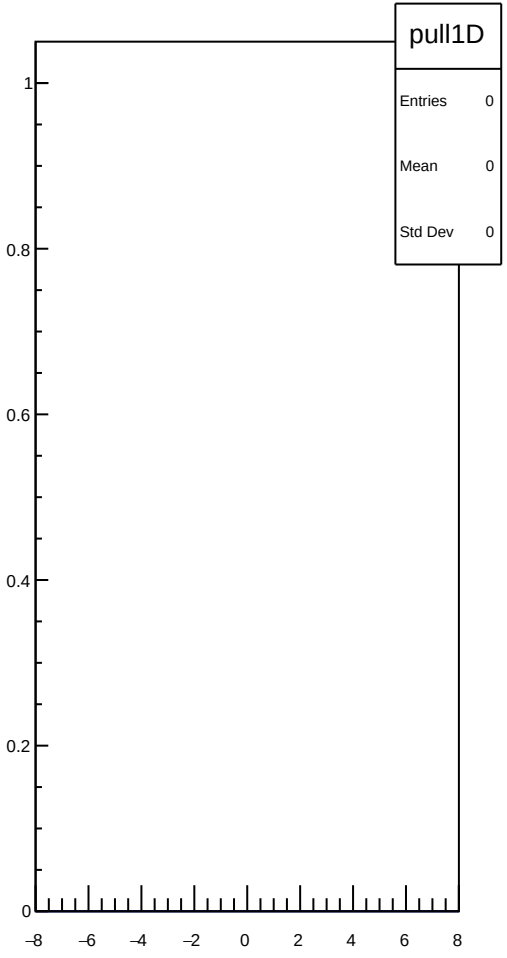
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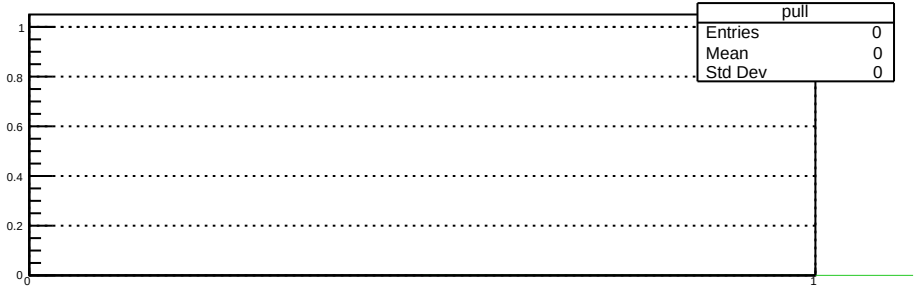
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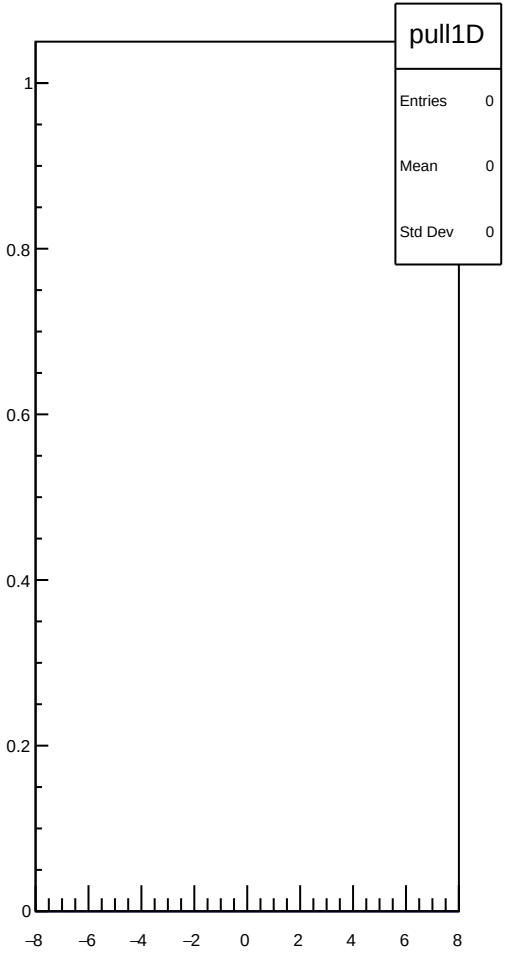
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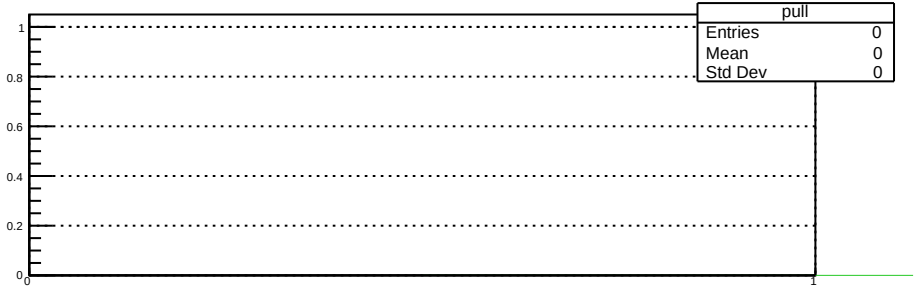
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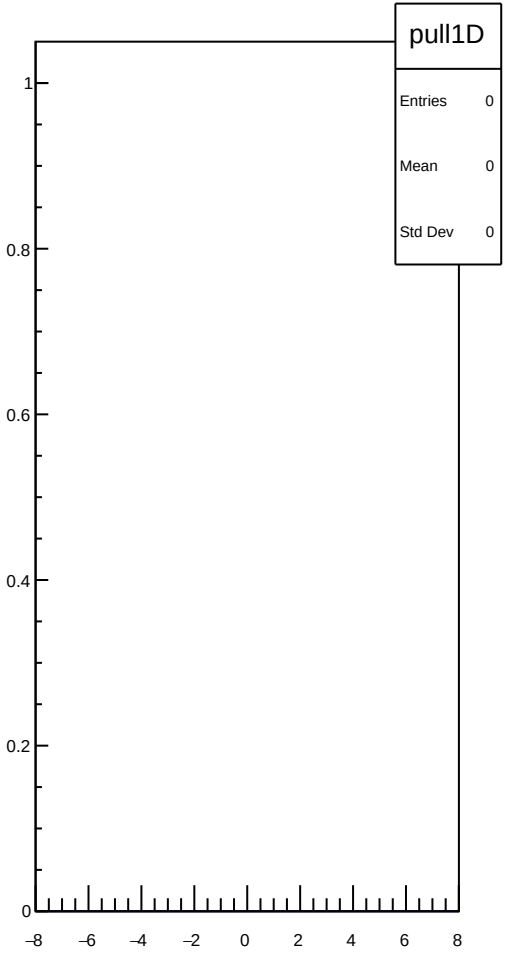
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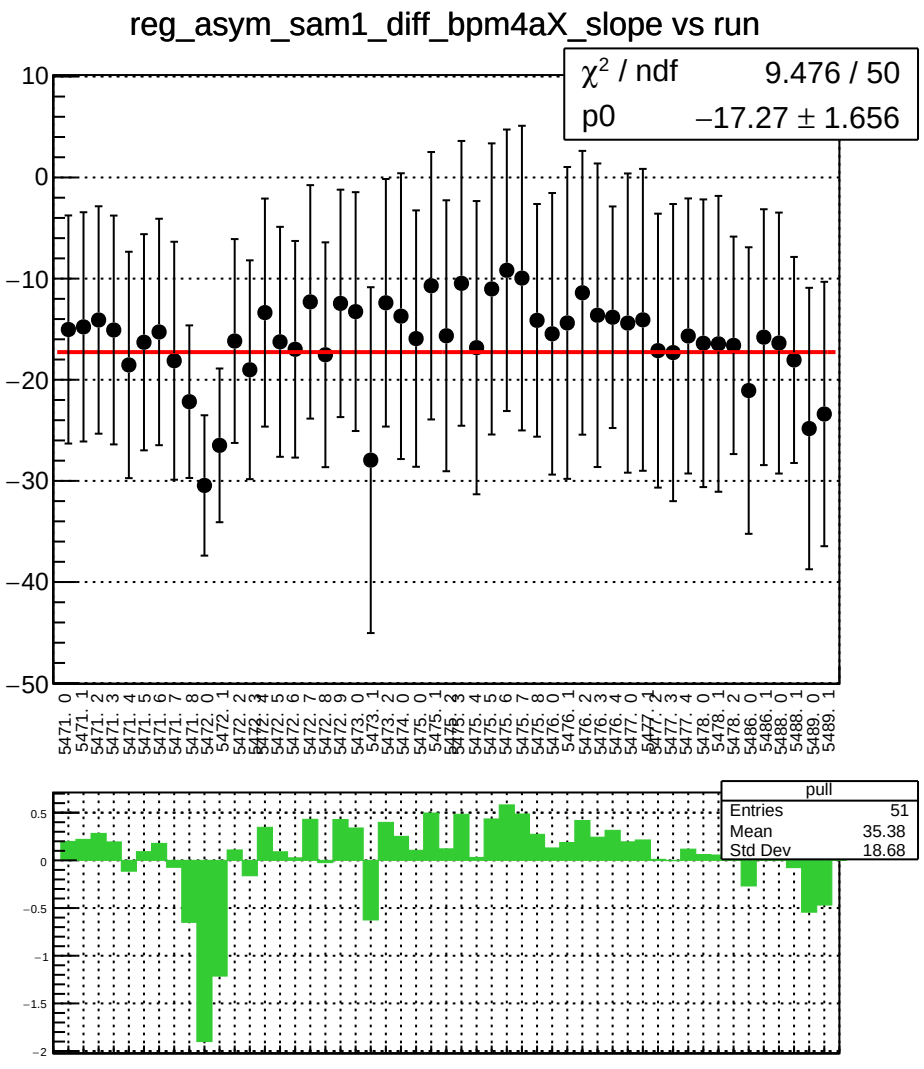
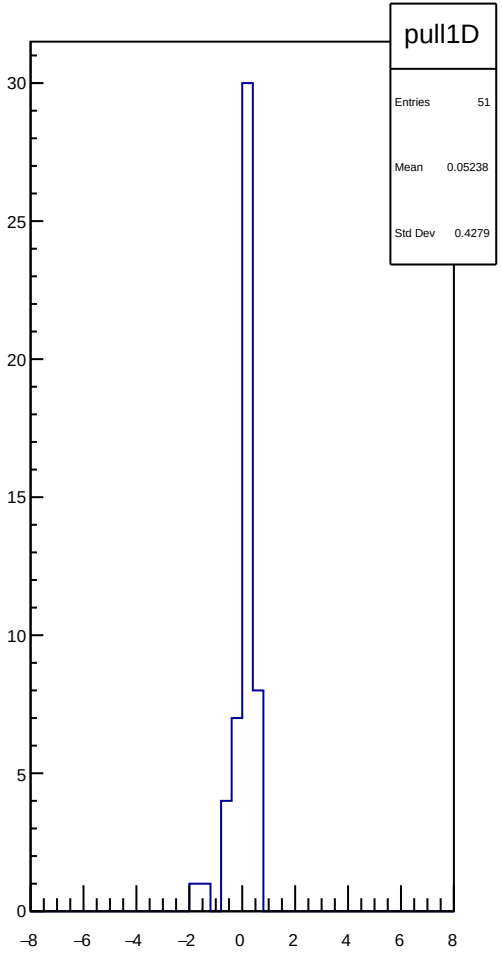

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 9.476 / 50
p0 −17.27 ± 1.656
pull
Entries 51
Mean 35.38
Std Dev 18.68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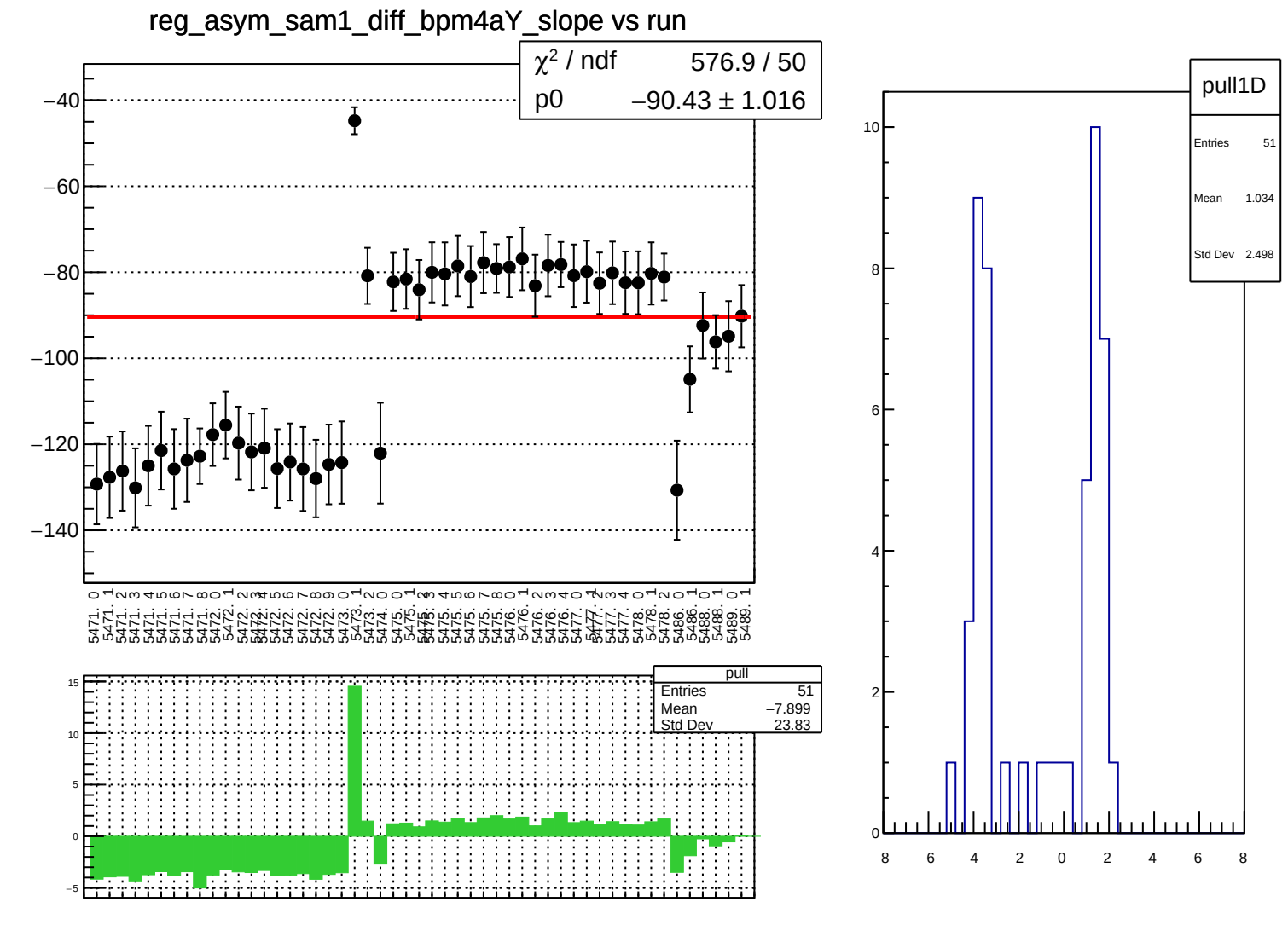
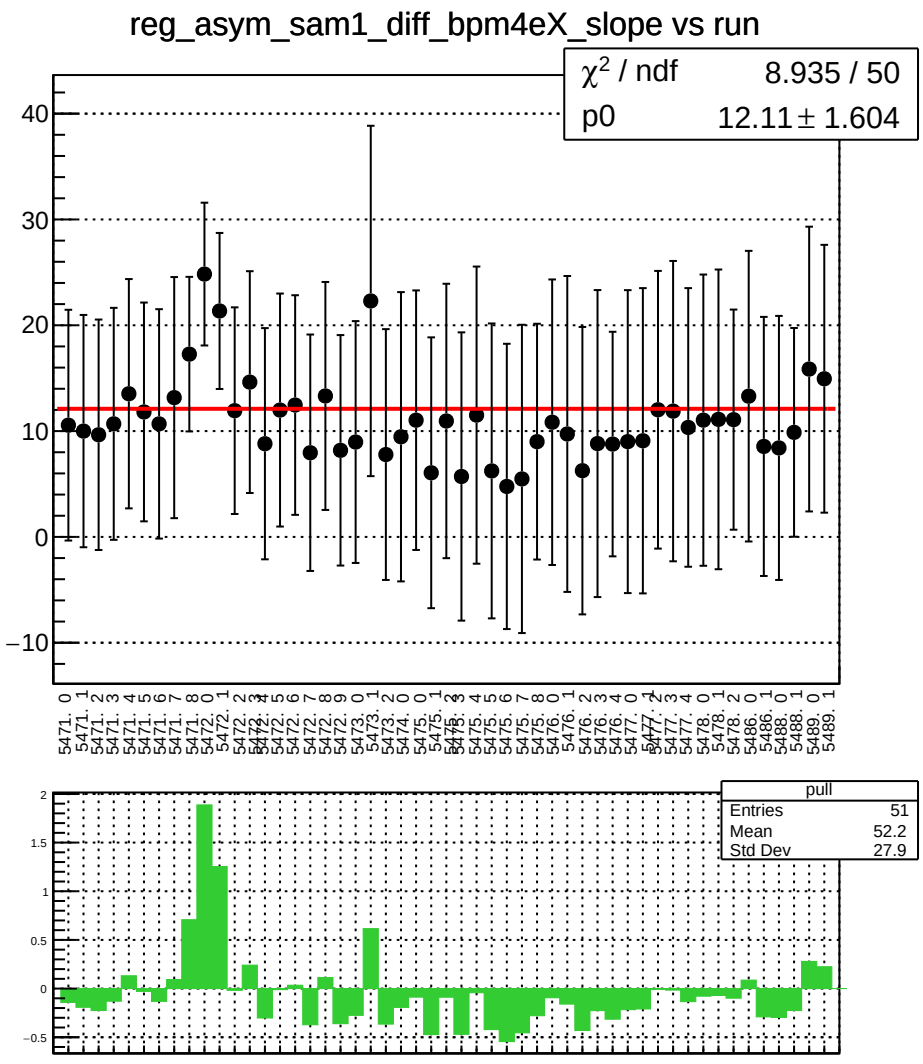
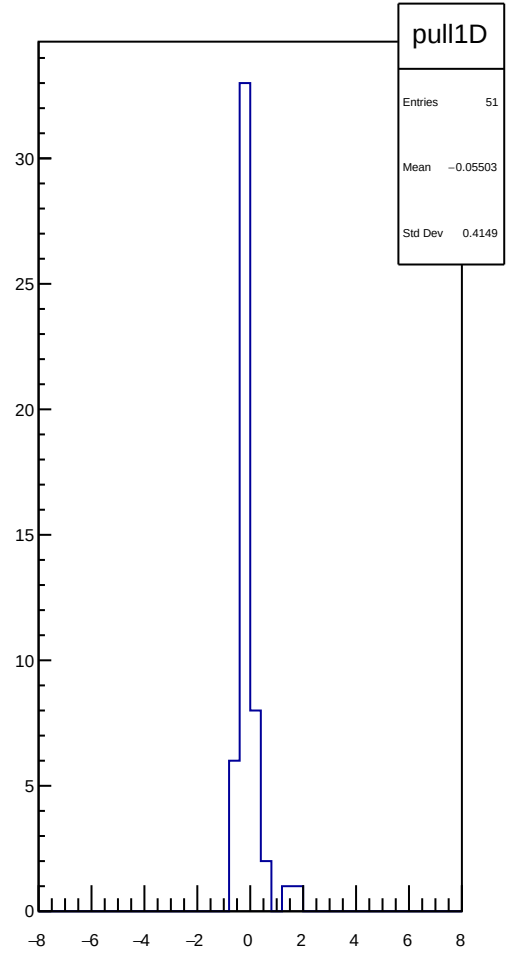
Entries 51
Mean 0.05238
Std Dev 0.4279


reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 576.9 / 50
p0 −90.43 ± 1.016
pull
Entries 51
Mean −7.899
Std Dev 23.83
pull1D
Entries 51
Mean −1.034
Std Dev 2.498


reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.935 / 50
p0 12.11 ± 1.604
pull
Entries 51
Mean 52.2
Std Dev 27.9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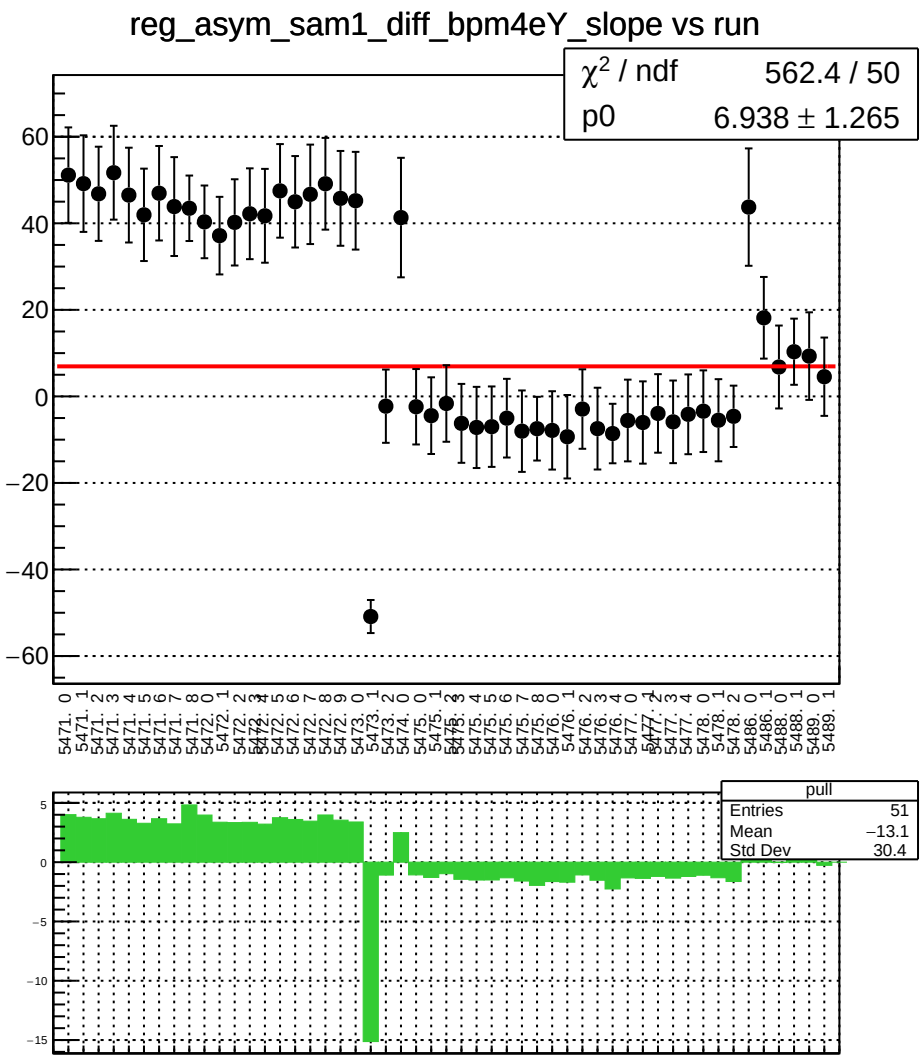
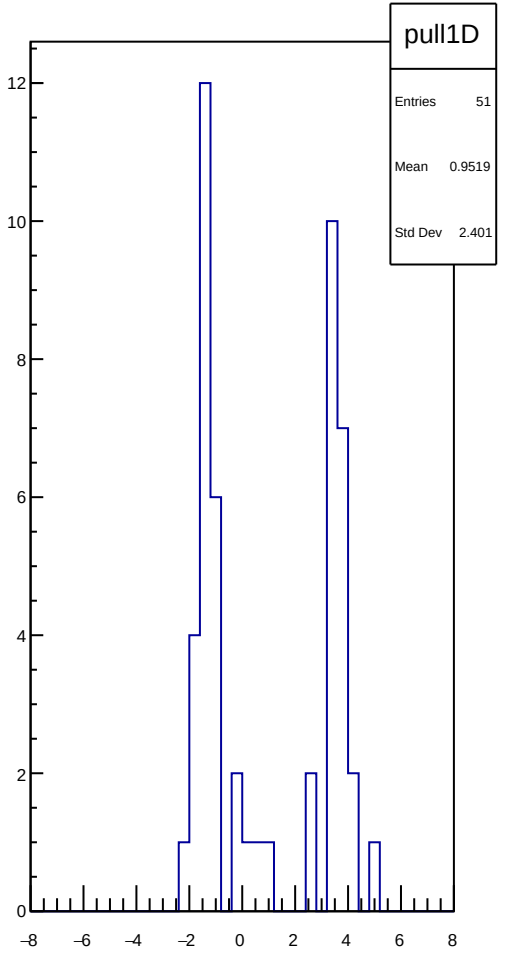
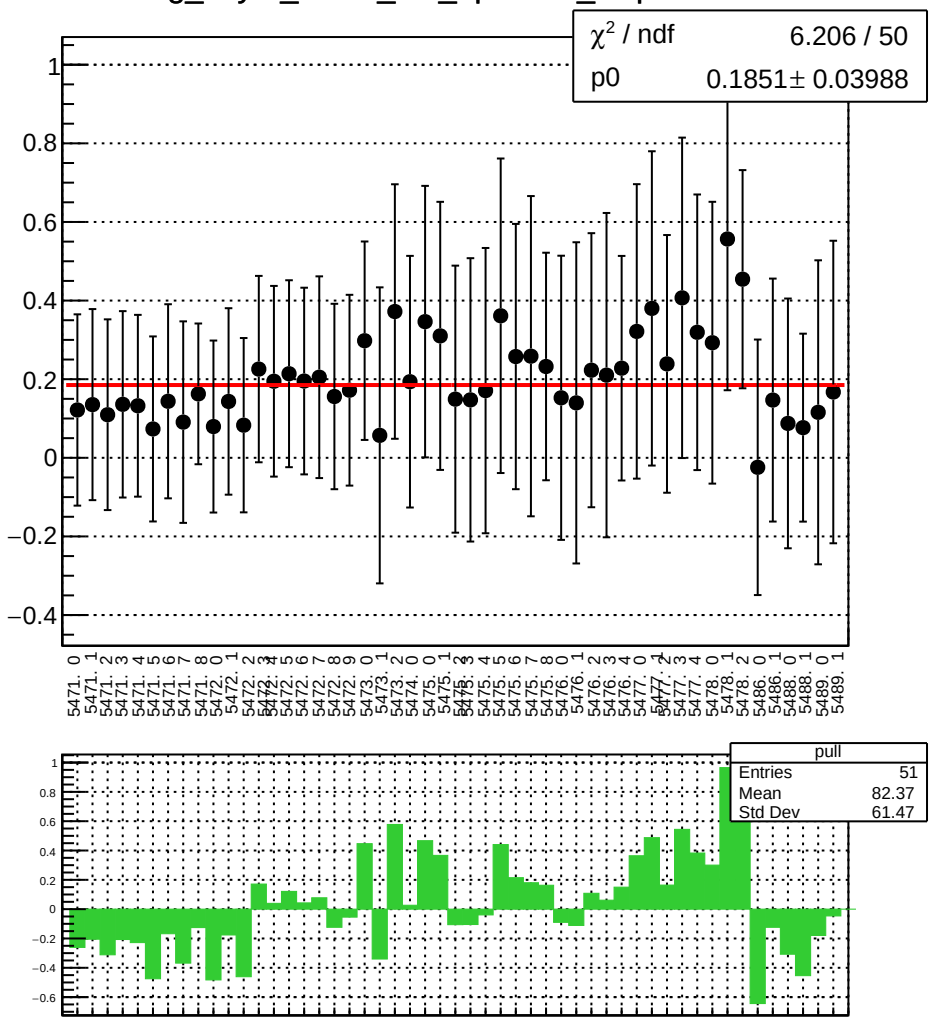
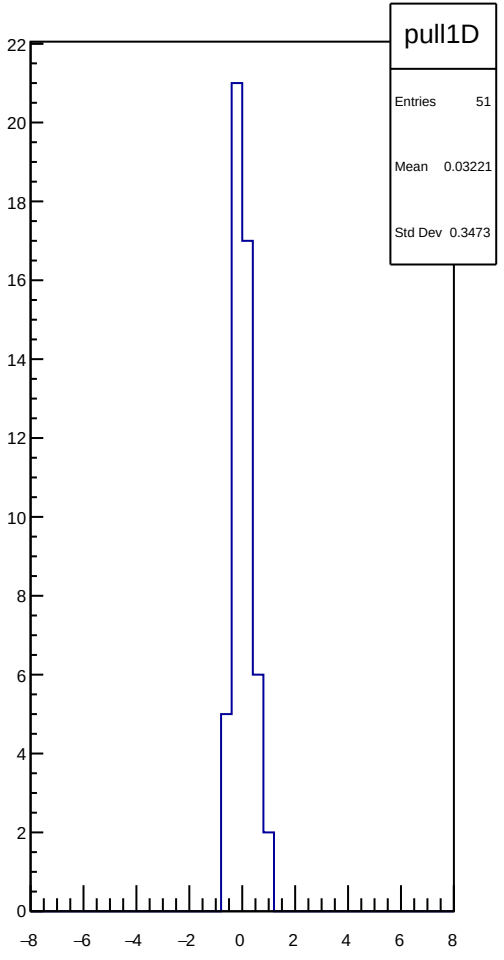
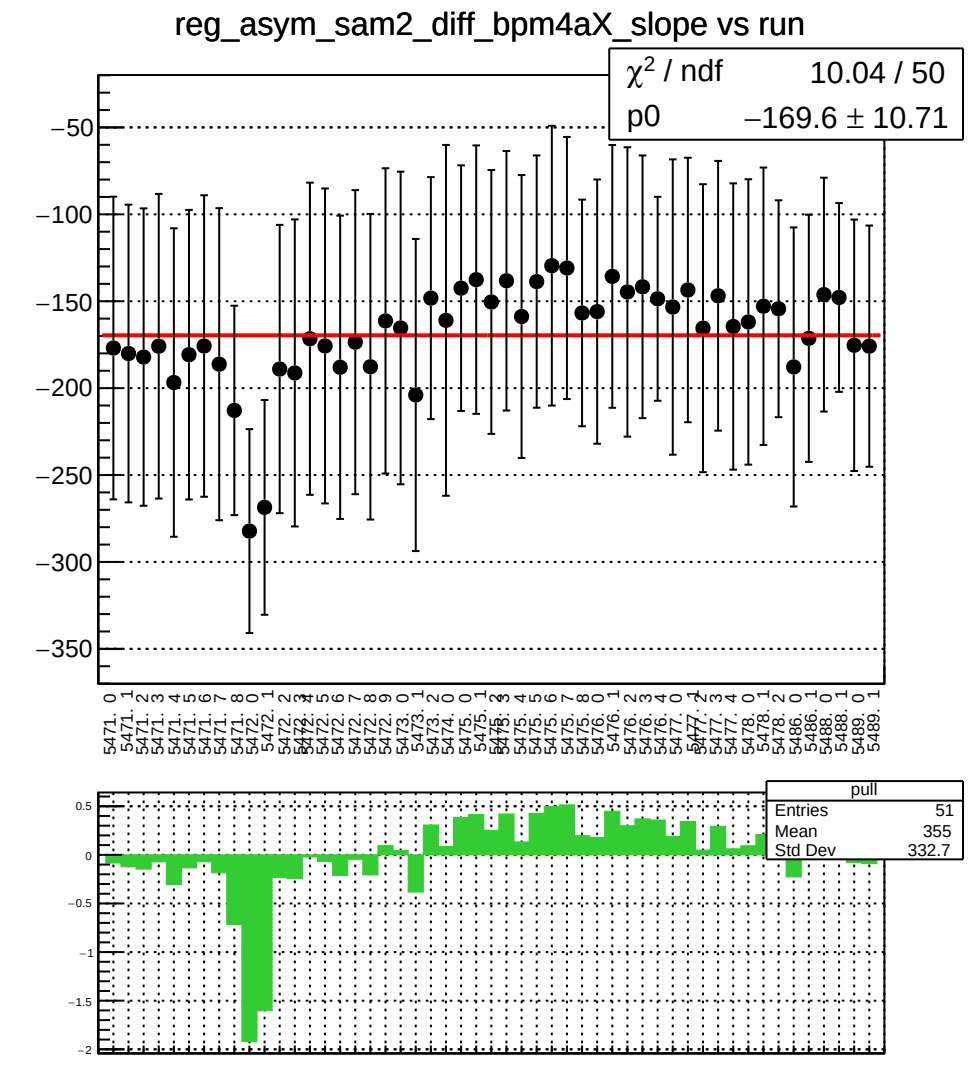
Mean −0.05503
Std Dev 0.4149

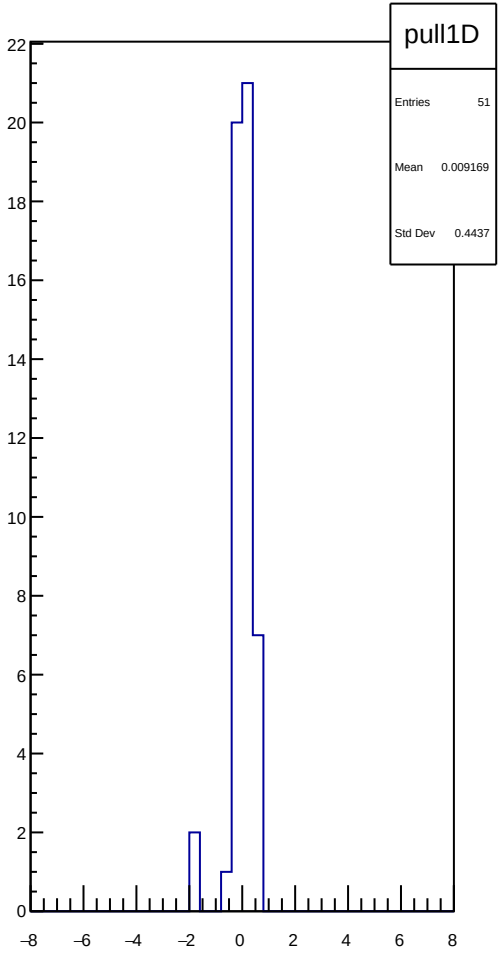

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 562.4 / 50
p0 6.938 ± 1.265
pull
Entries 51
Mean −13.1
Std Dev 30.4

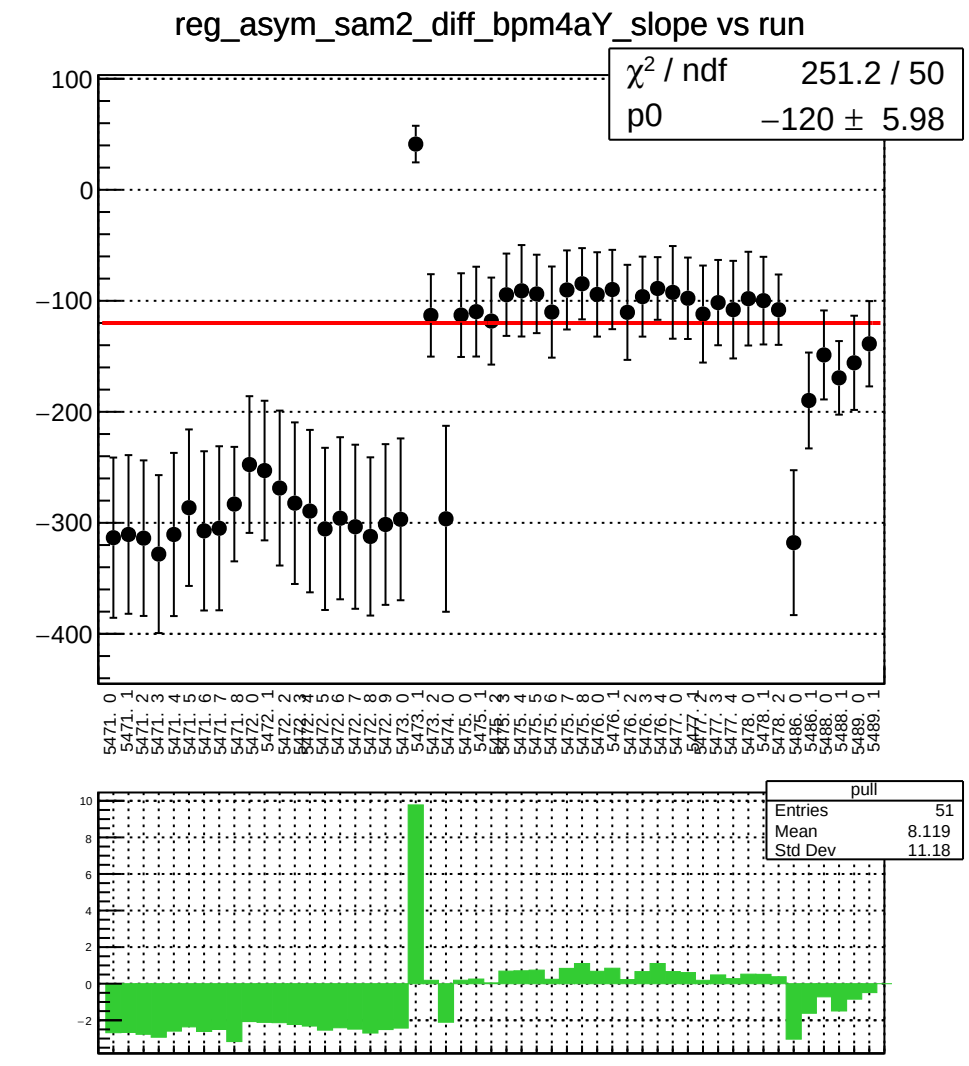

pull1D
Entries 51
Mean 0.9519
Std Dev 2.401

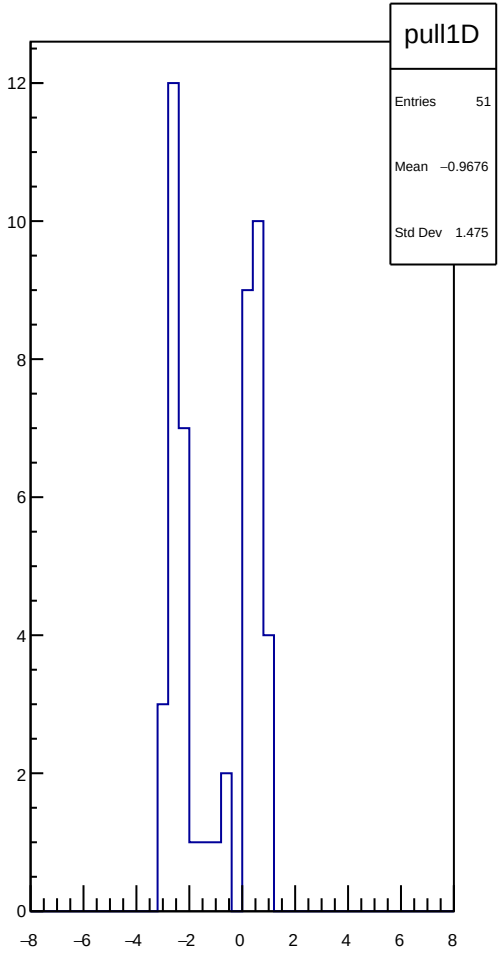

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 6.206 / 50
p0 0.1851± 0.03988
pull
Entries 51
Mean 82.37
Std Dev 61.47

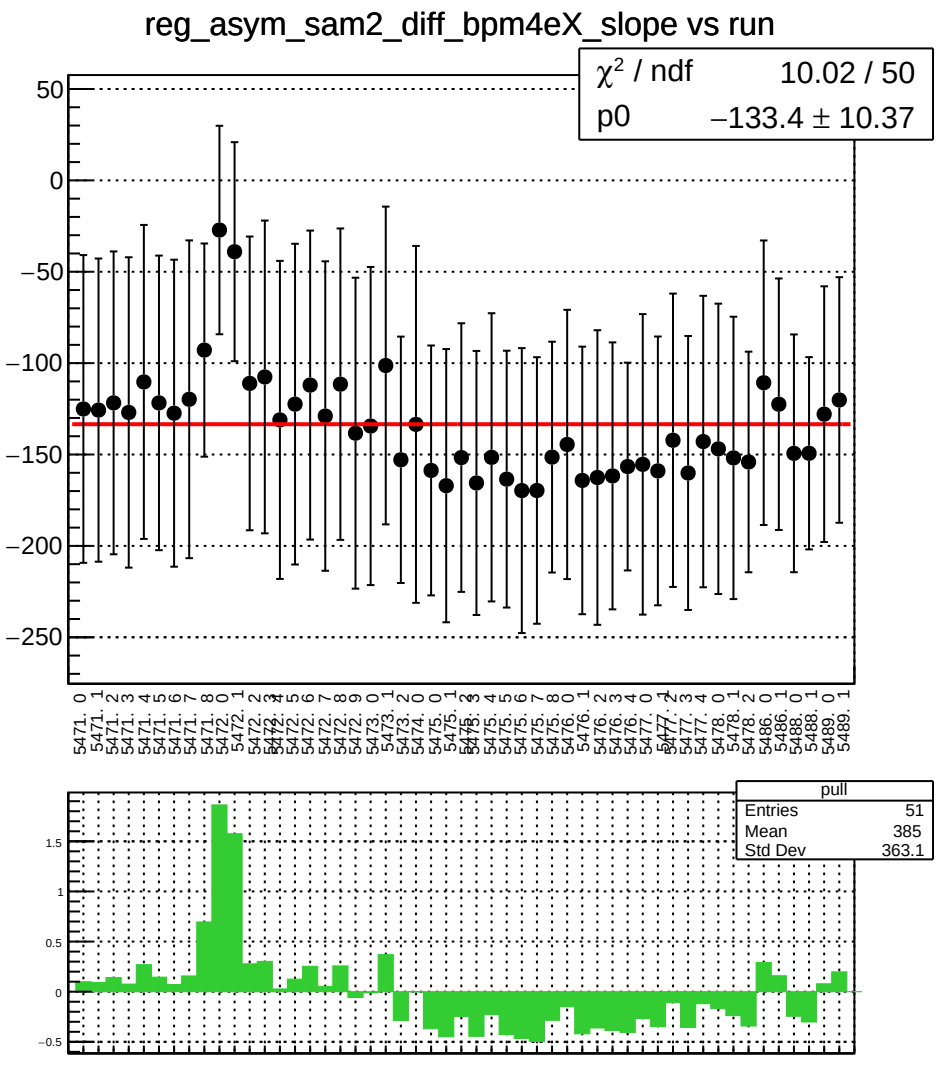

pull1D
Entries 51
Mean 0.03221
Std Dev 0.3473

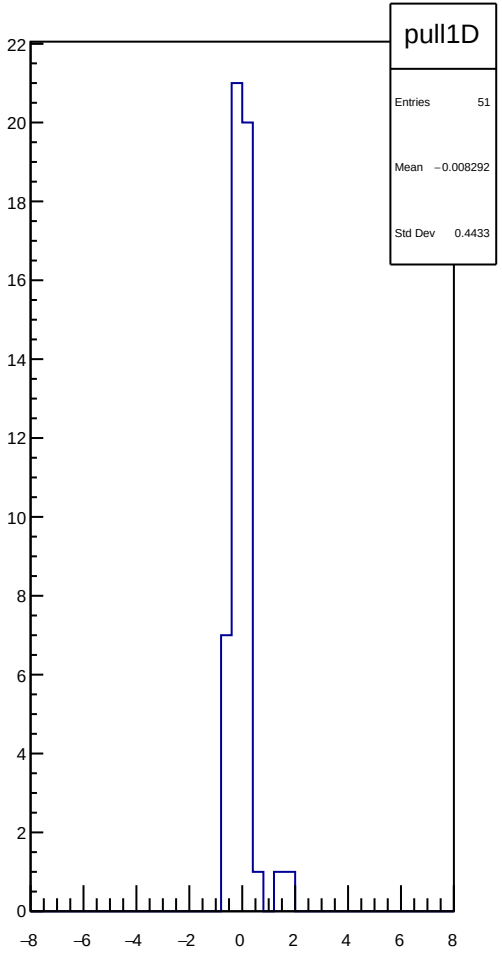

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 10.04 / 50
p0 −169.6 ± 10.71
pull
Entries 51
Mean 355
Std Dev 332.7

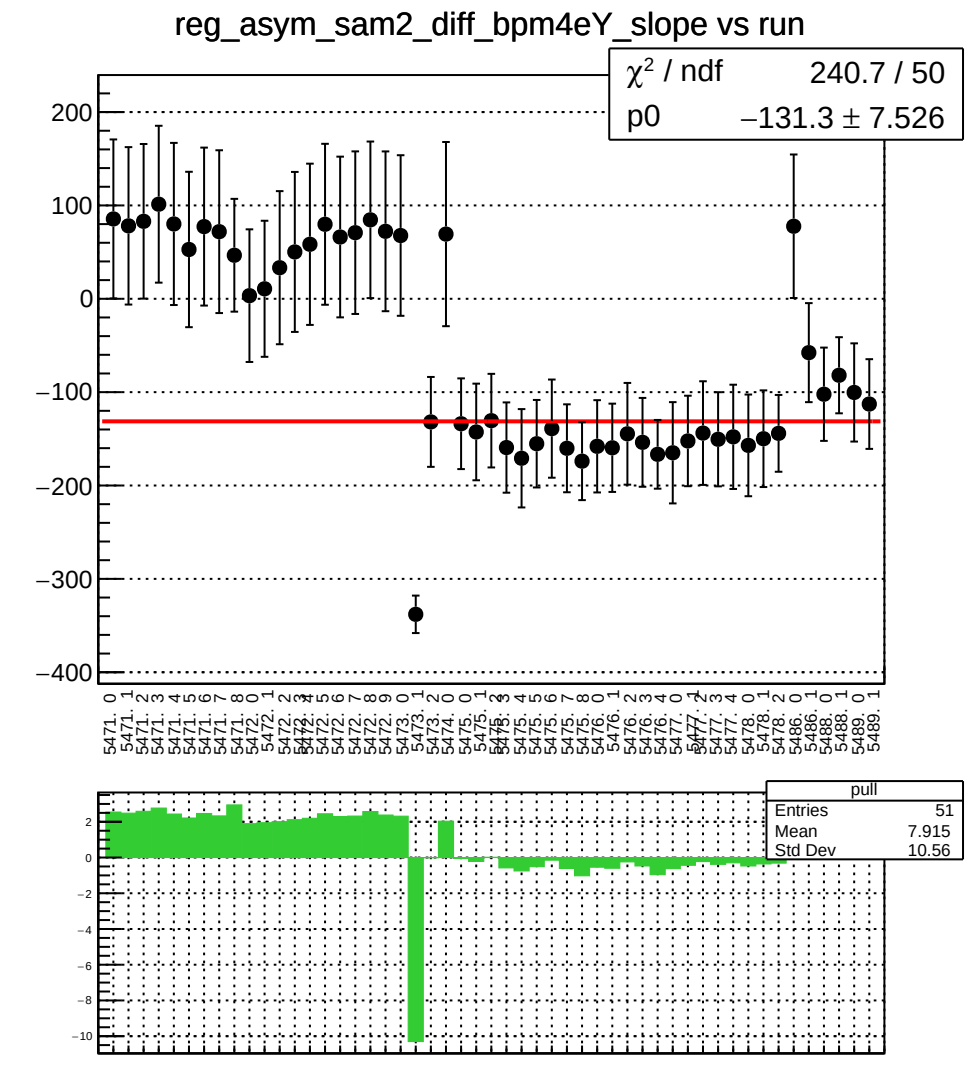

pull1D
Entries 51
Mean 0.009169
Std Dev 0.4437

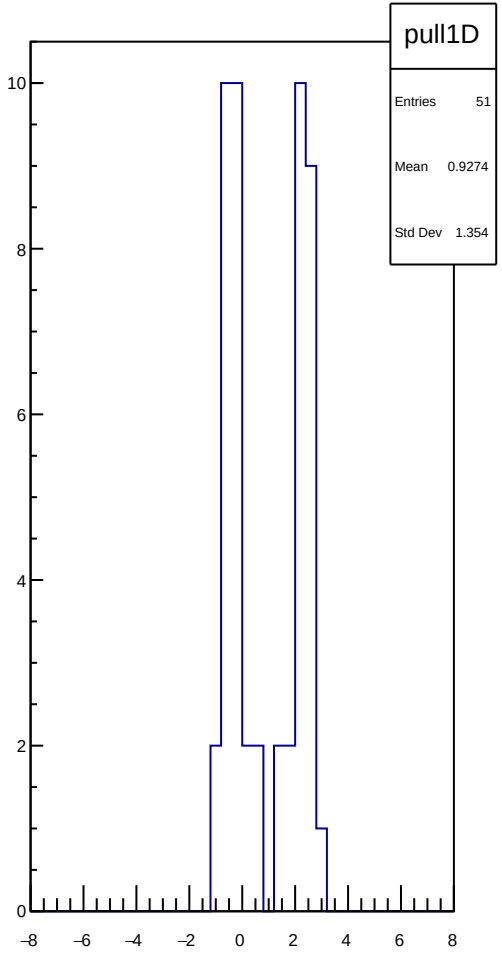

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 251.2 / 50
p0 −120 ± 5.98
pull
Entries 51
Mean 8.119
Std Dev 11.18

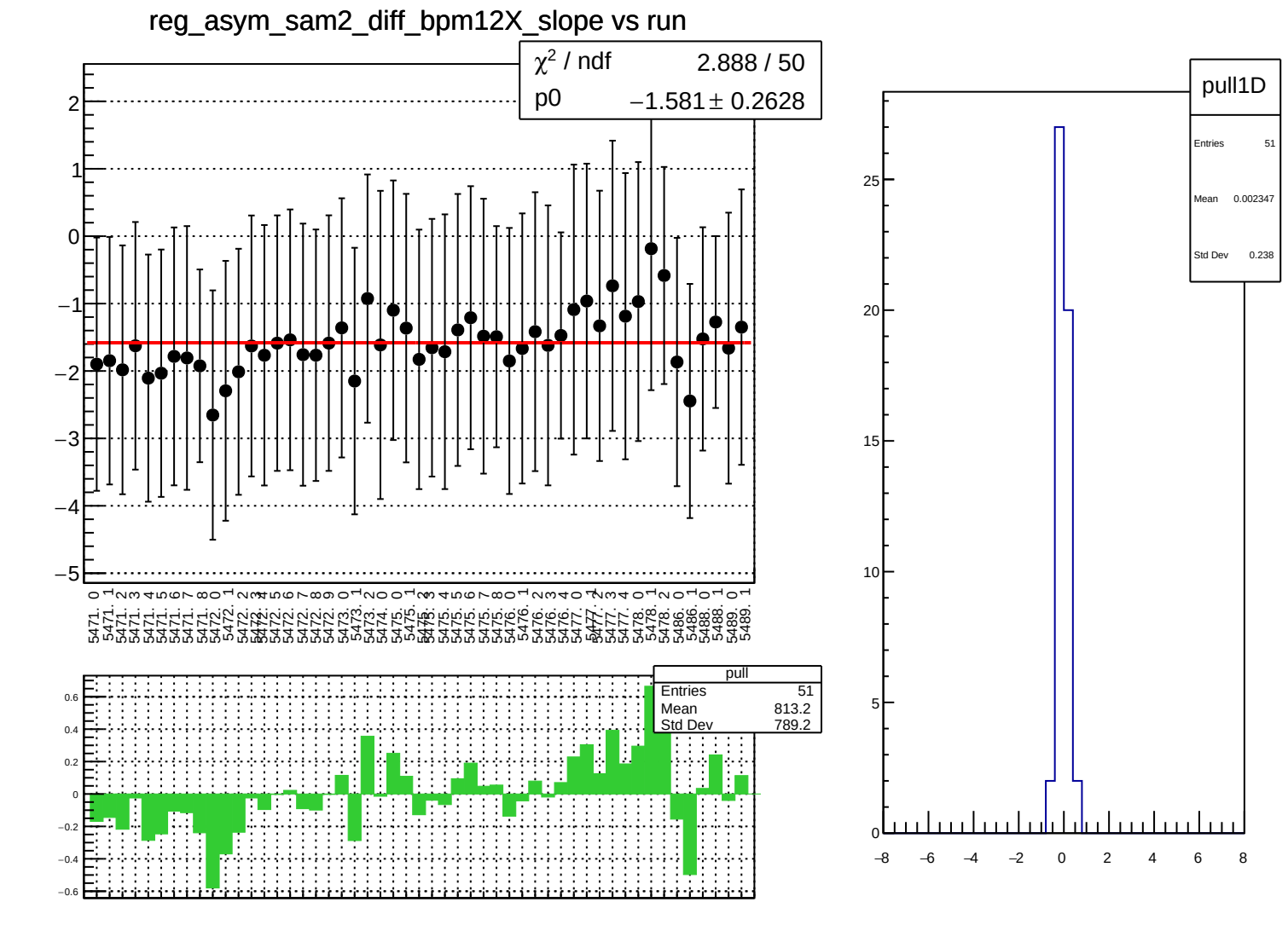

pull1D
Entries 51
Mean −0.9676
Std Dev 1.475

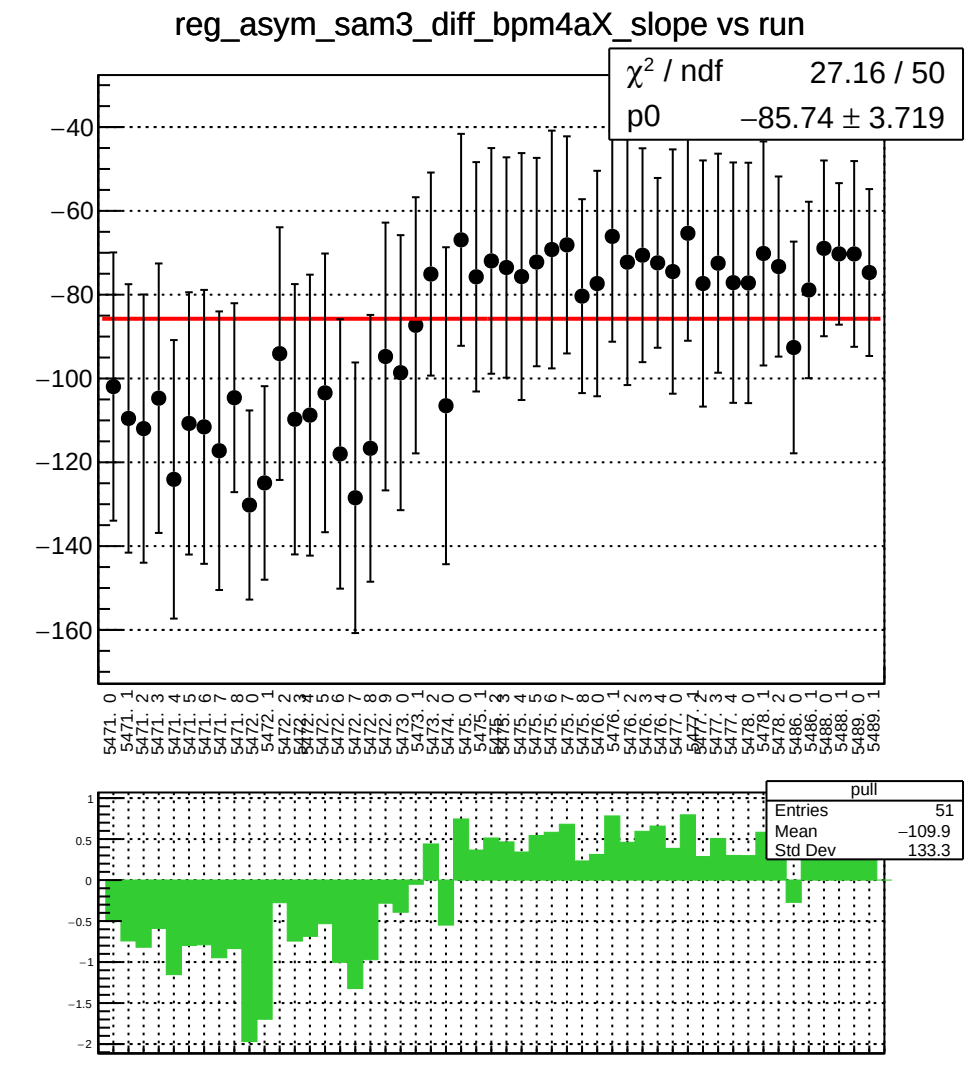

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.02 / 50
p0 −133.4 ± 10.37
pull
Entries 51
Mean 385
Std Dev 363.1

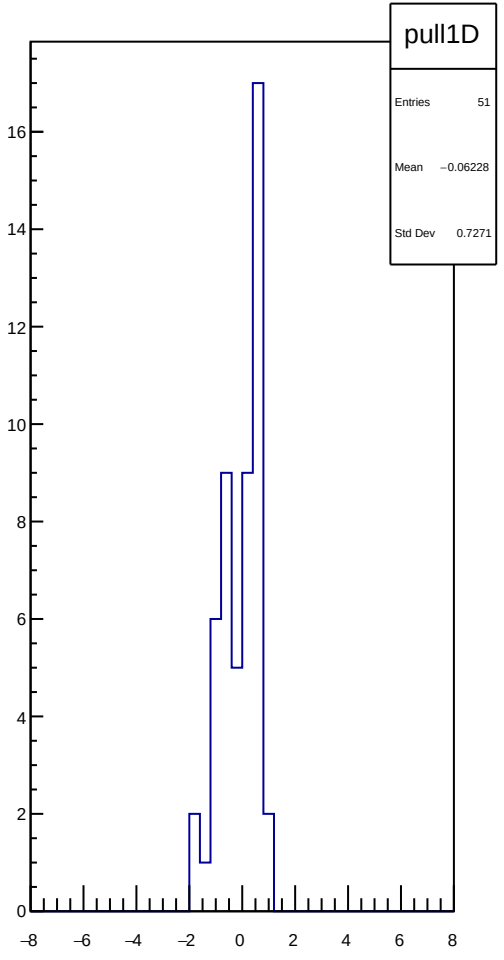

pull1D
Entries 51
Mean −0.008292
Std Dev 0.4433

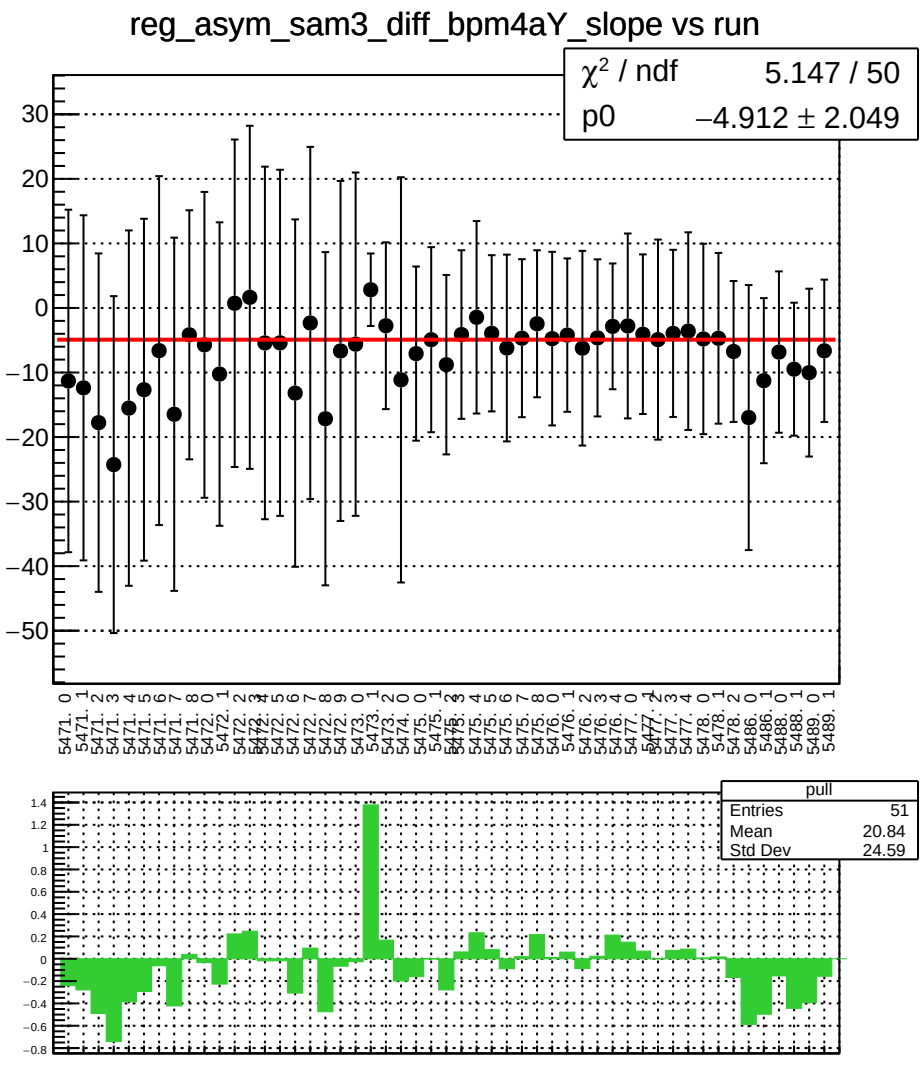

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 240.7 / 50
p0 −131.3 ± 7.526
pull
Entries 51
Mean 7.915
Std Dev 10.56

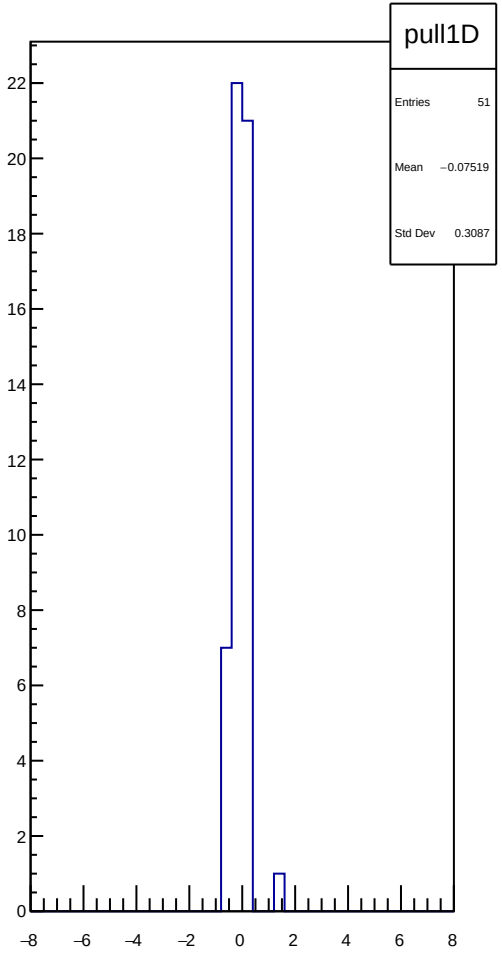

pull1D
Entries 51
Mean 0.9274
Std Dev 1.354

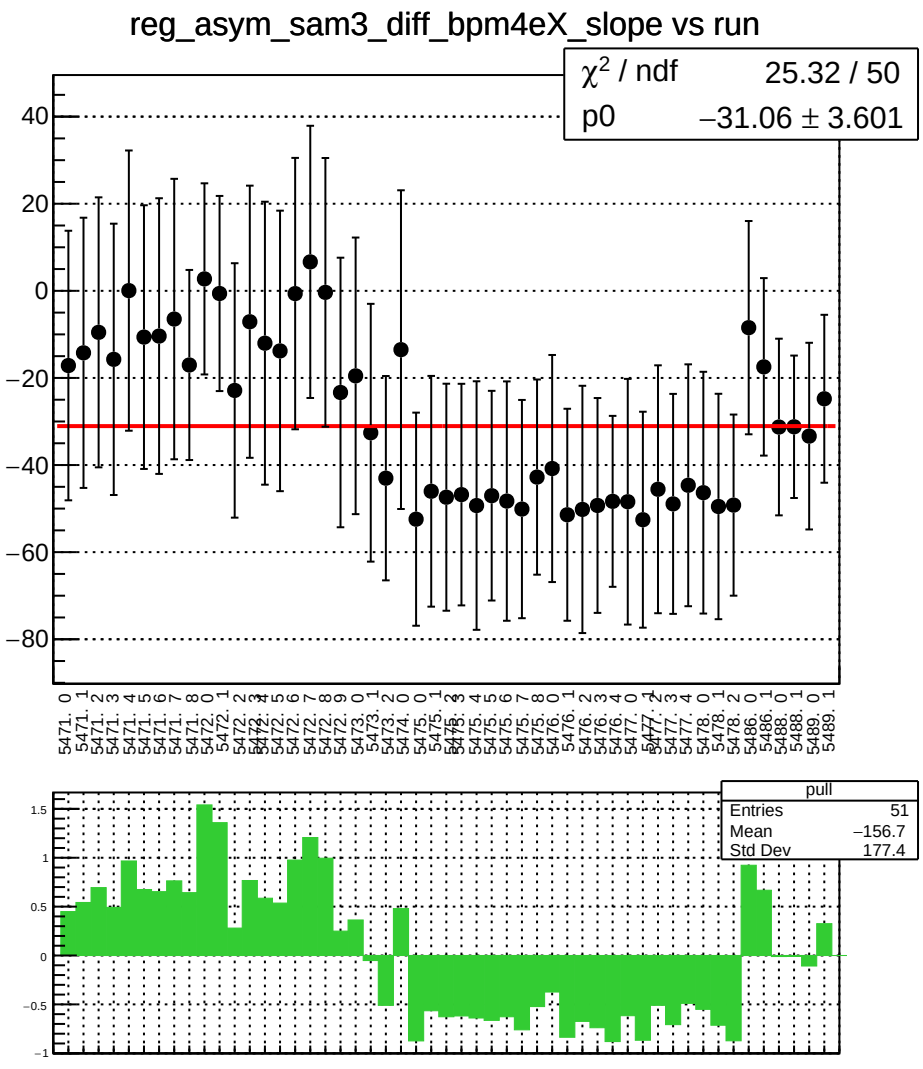

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 2.888 / 50
p0 −1.581 ± 0.2628
pull
Entries 51
Mean 813.2
Std Dev 789.2
pull1D
Entries 51
Mean 0.002347
Std Dev 0.238

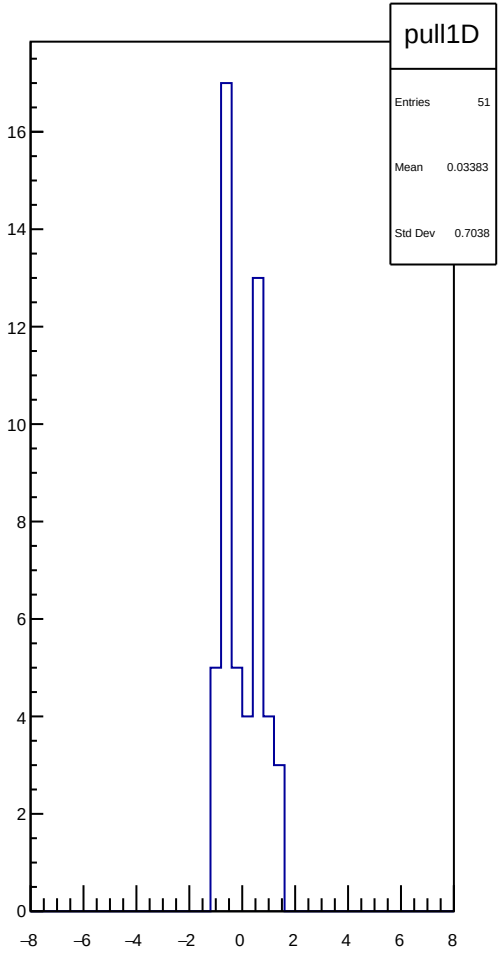

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 27.16 / 50
p0 −85.74 ± 3.719
pull
Entries 51
Mean −109.9
Std Dev 133.3

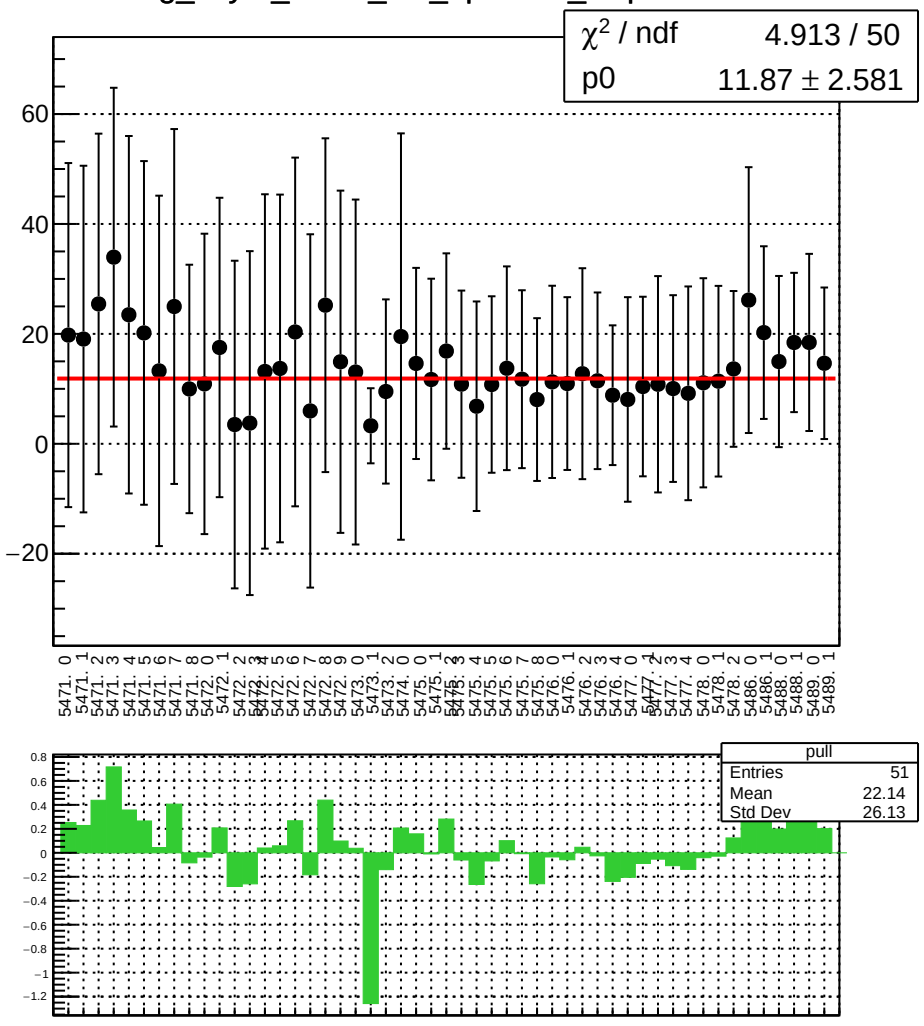

pull1D
Entries 51
Mean −0.06228
Std Dev 0.7271

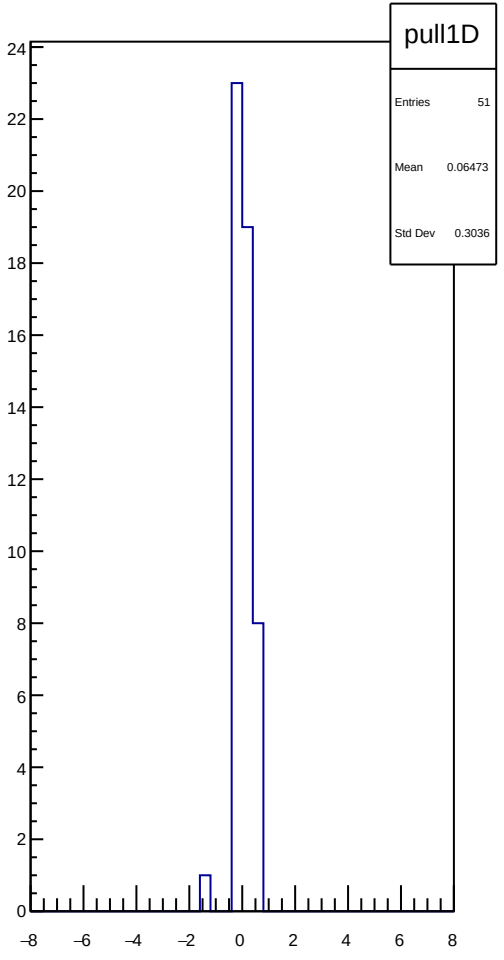

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 5.147 / 50
p0 −4.912 ± 2.049
pull
Entries 51
Mean 20.84
Std Dev 24.59

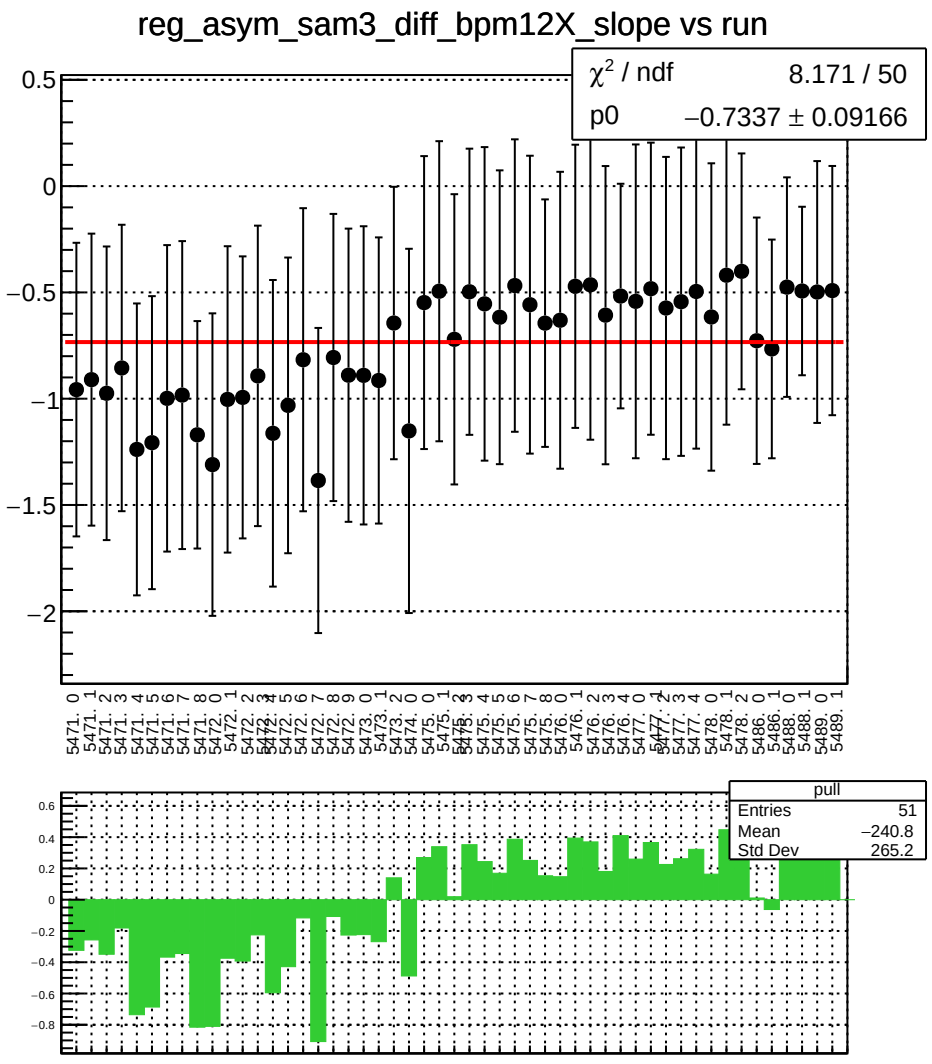

pull1D
Entries 51
Mean −0.07519
Std Dev 0.3087

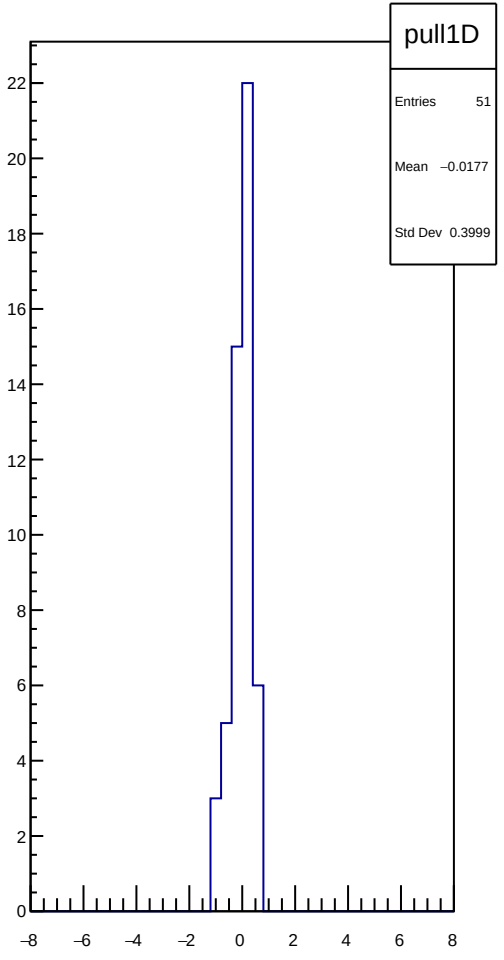

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 25.32 / 50
p0 −31.06 ± 3.601
pull
Entries 51
Mean −156.7
Std Dev 177.4

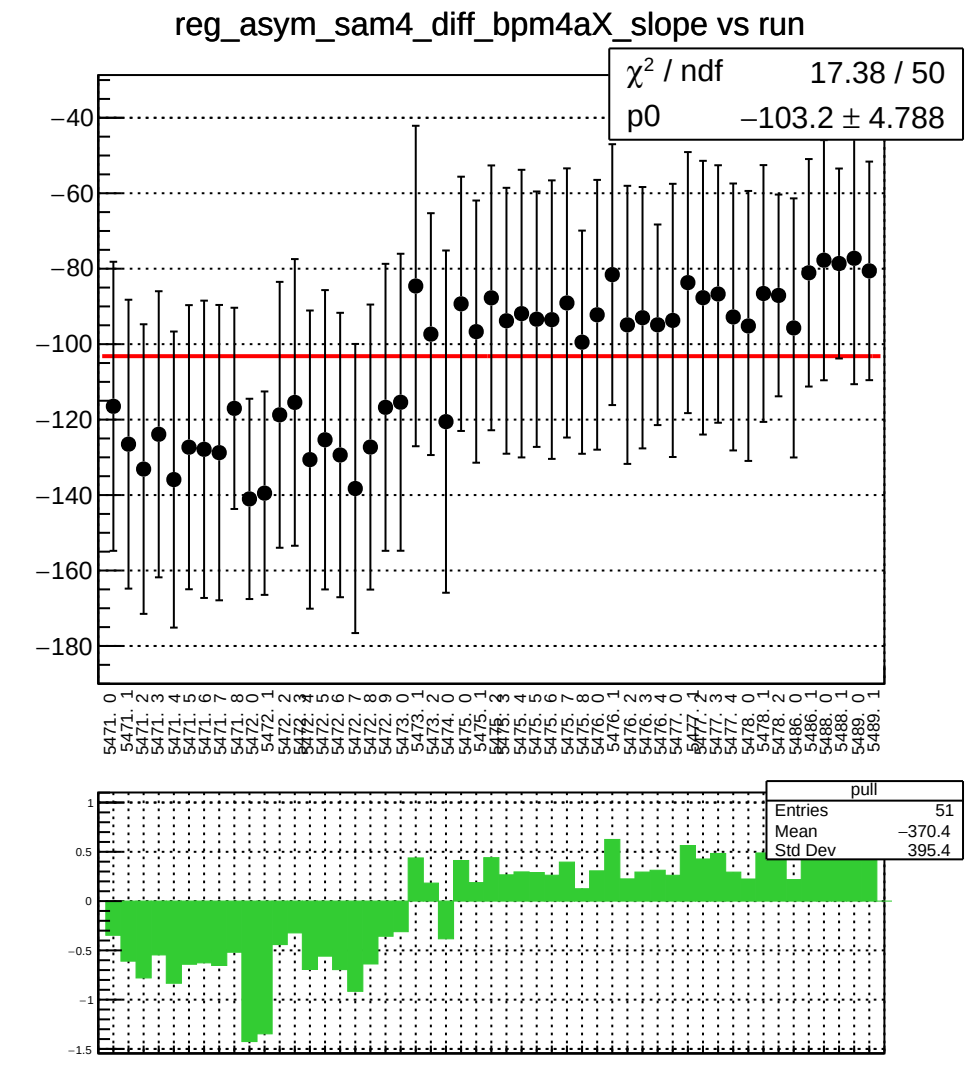

pull1D
Entries 51
Mean 0.03383
Std Dev 0.7038

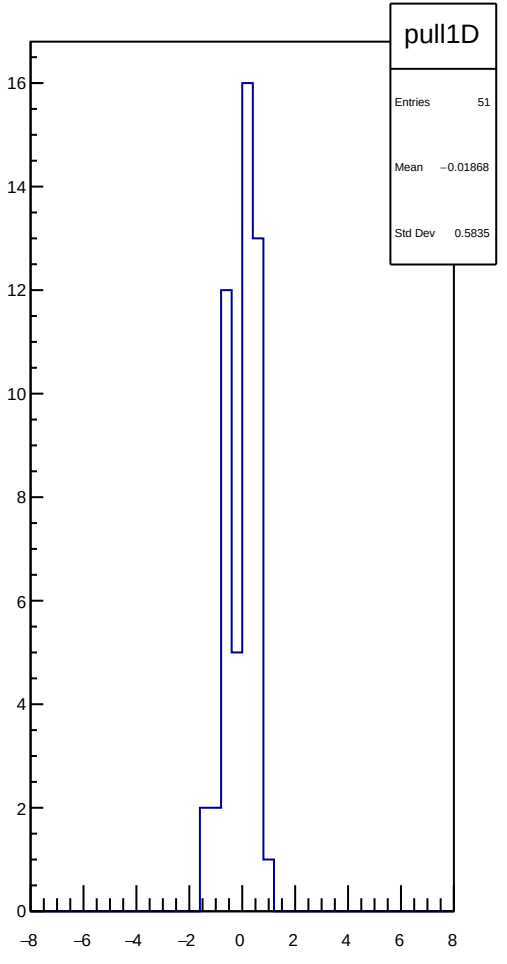

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.913 / 50
p0 11.87 ± 2.581
pull
Entries 51
Mean 22.14
Std Dev 26.13

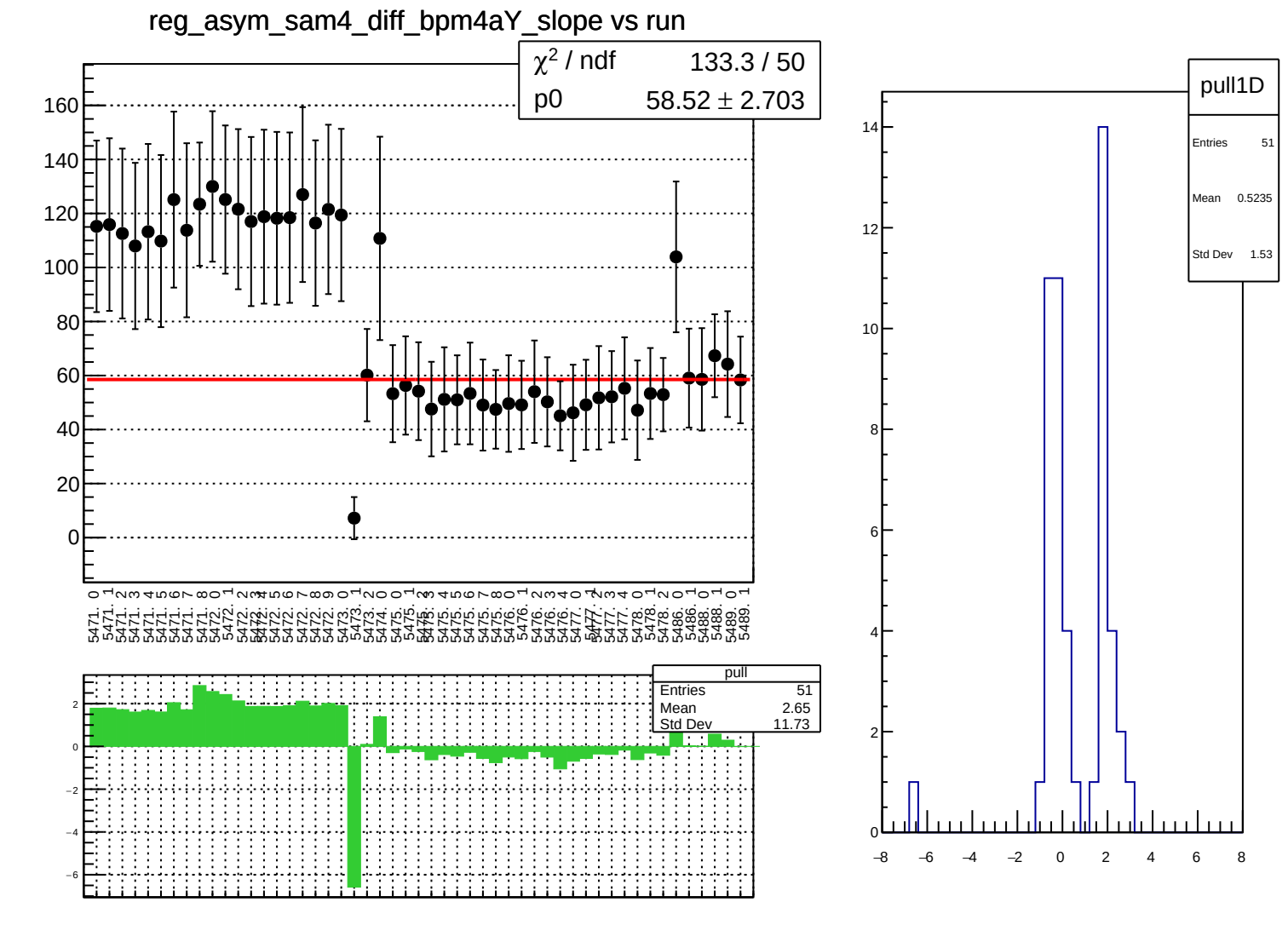

pull1D
Entries 51
Mean 0.06473
Std Dev 0.3036

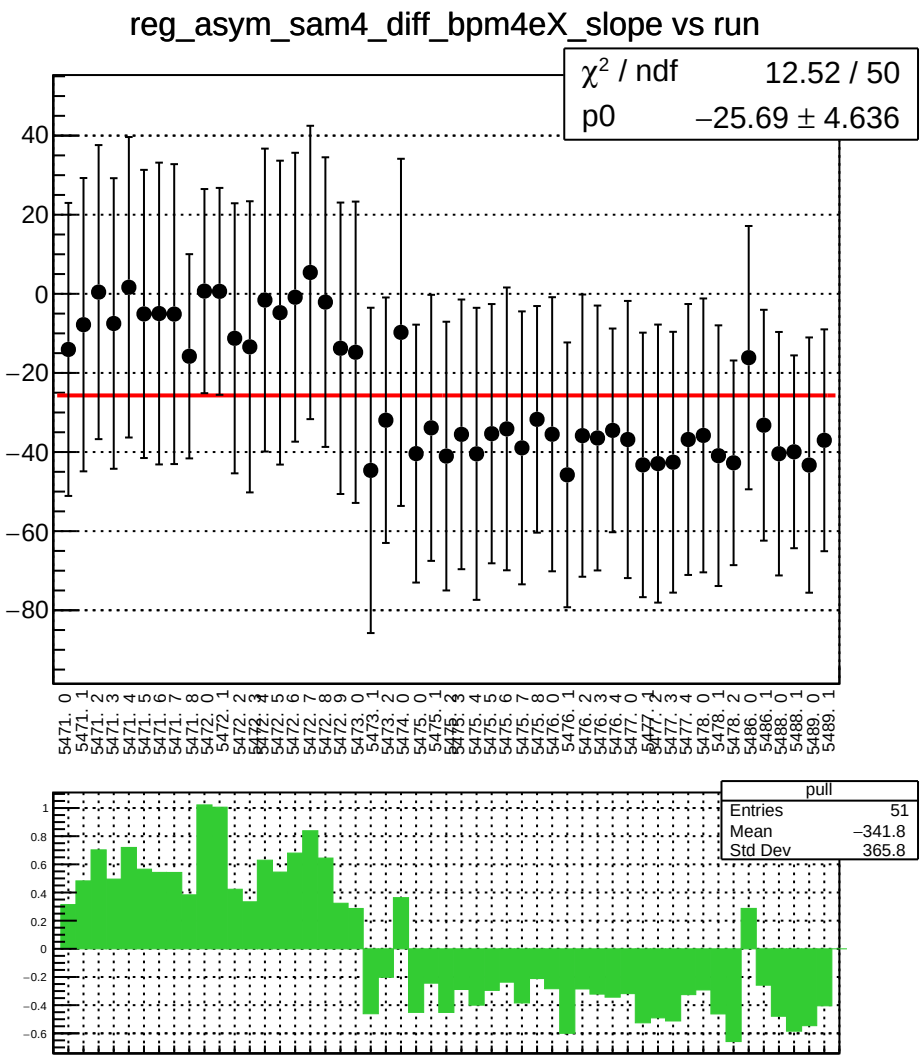

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 8.171 / 50
p0 −0.7337 ± 0.09166
pull
Entries 51
Mean −240.8
Std Dev 265.2

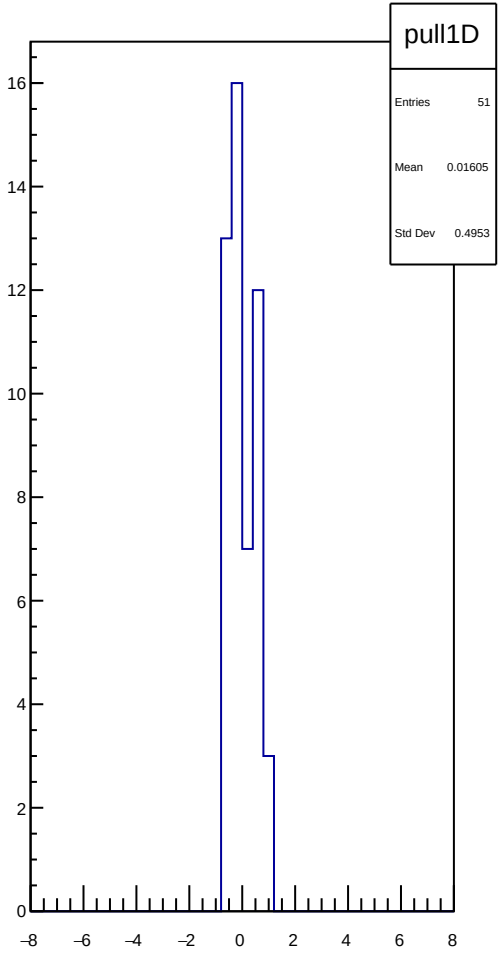

pull1D
Entries 51
Mean −0.0177
Std Dev 0.3999

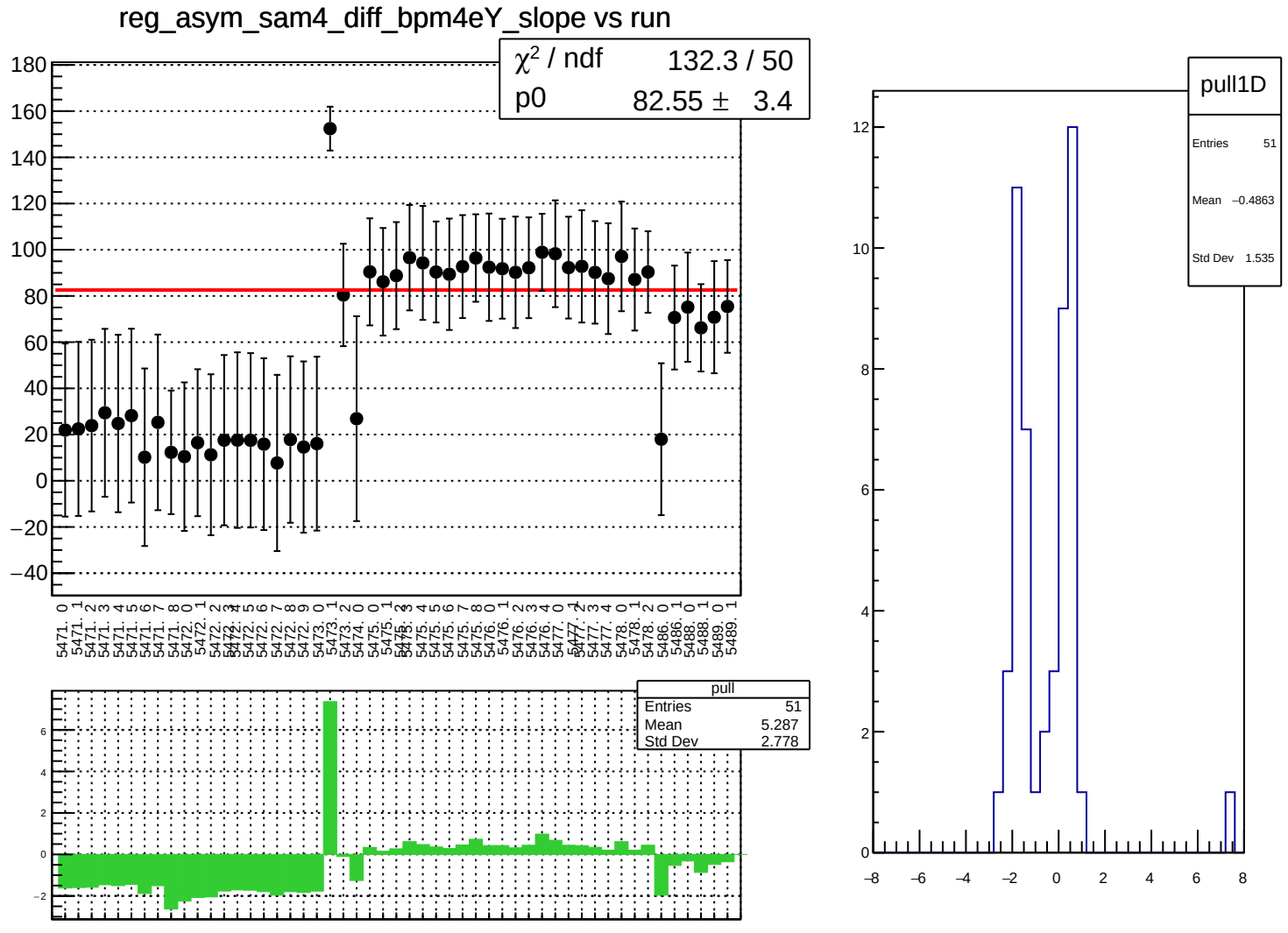

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 17.38 / 50
p0 −103.2 ± 4.788
pull
Entries 51
Mean −370.4
Std Dev 395.4

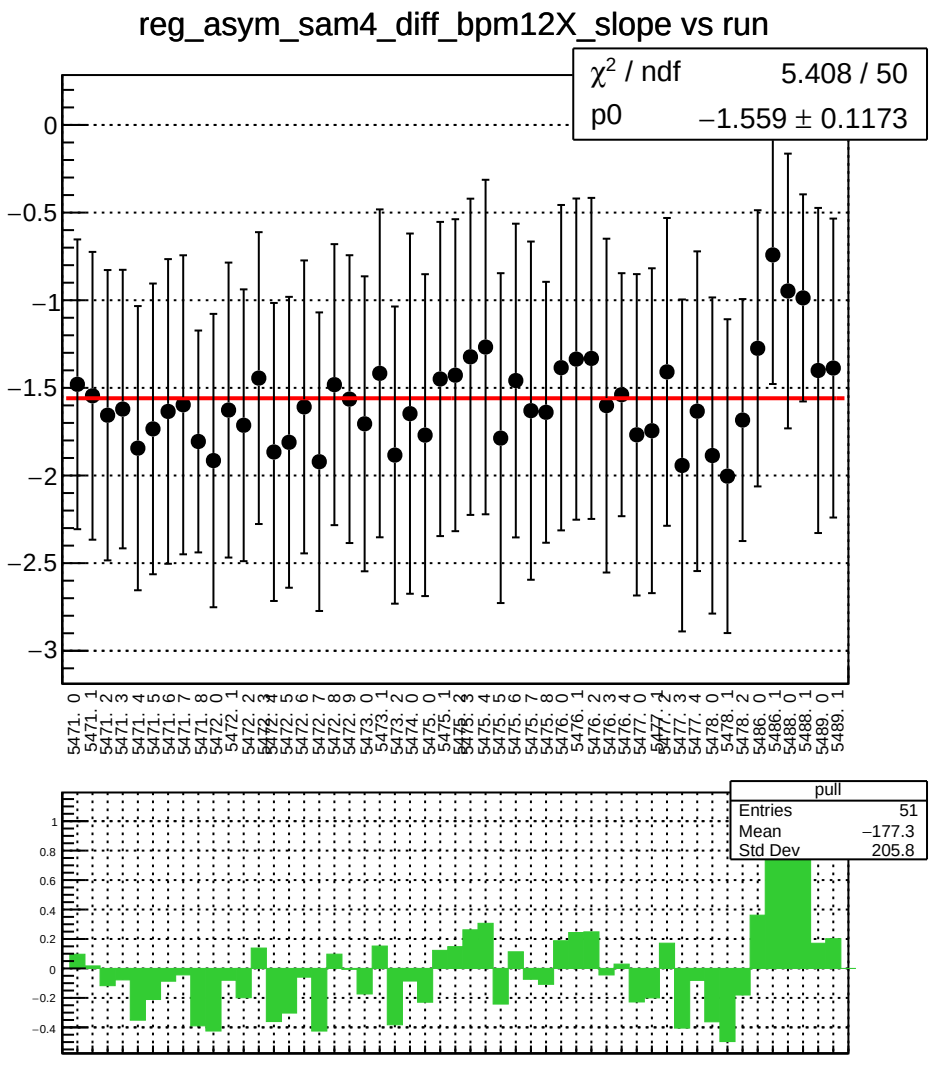

pull1D
Entries 51
Mean −0.01868
Std Dev 0.5835

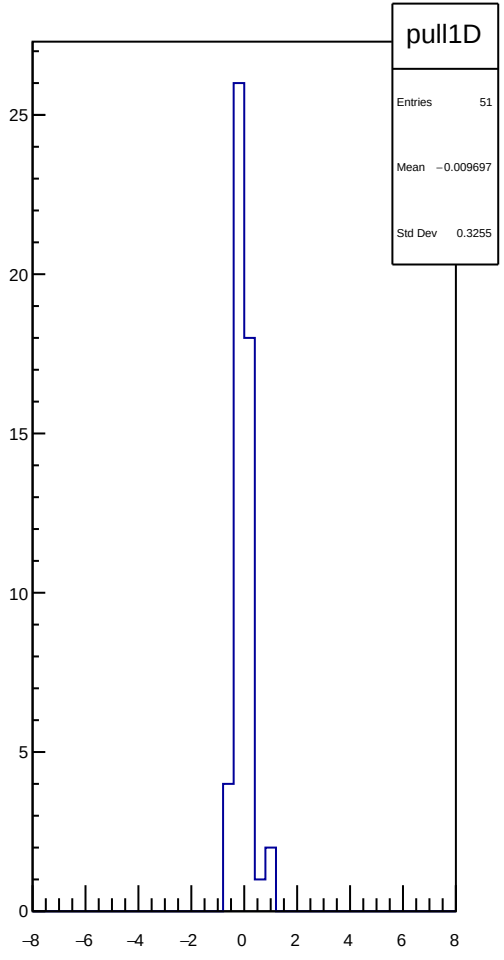

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 133.3 / 50
p0 58.52 ± 2.703
pull
Entries 51
Mean 2.65
Std Dev 11.73
pull1D
Entries 51
Mean 0.5235
Std Dev 1.53

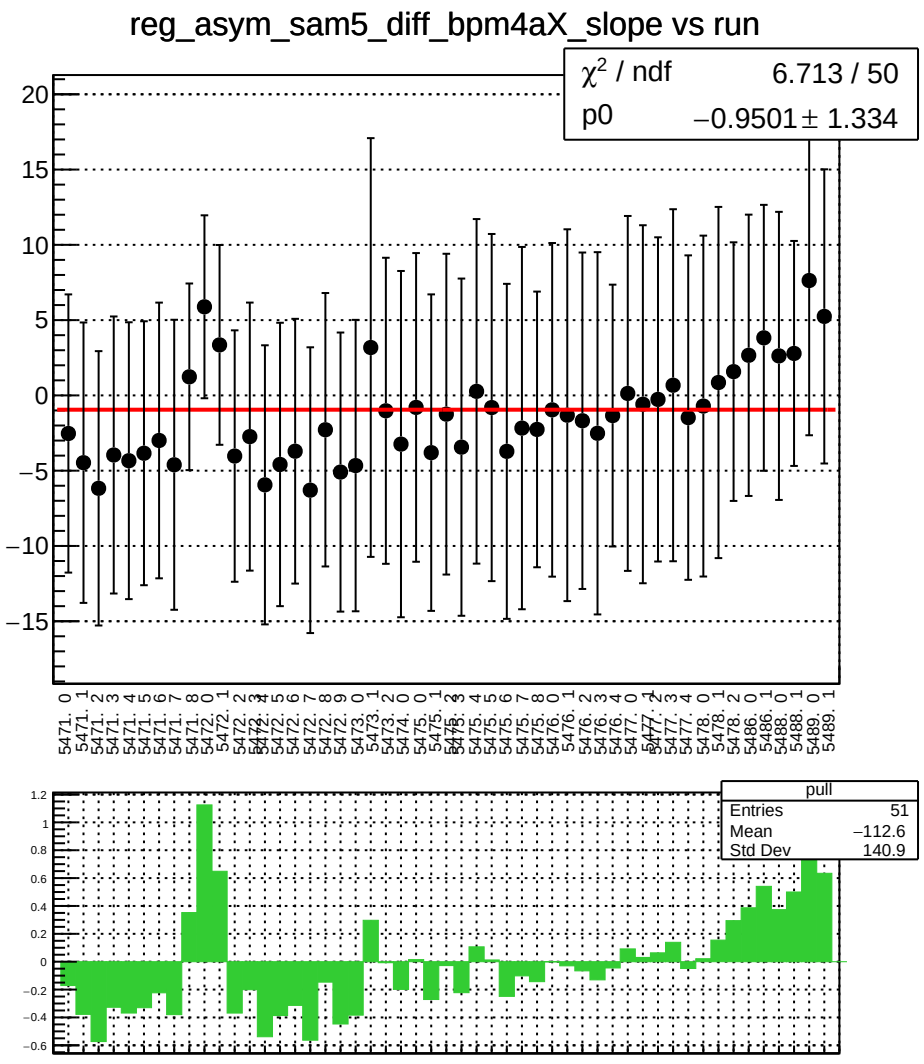

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 12.52 / 50
p0 −25.69 ± 4.636
pull
Entries 51
Mean −341.8
Std Dev 365.8

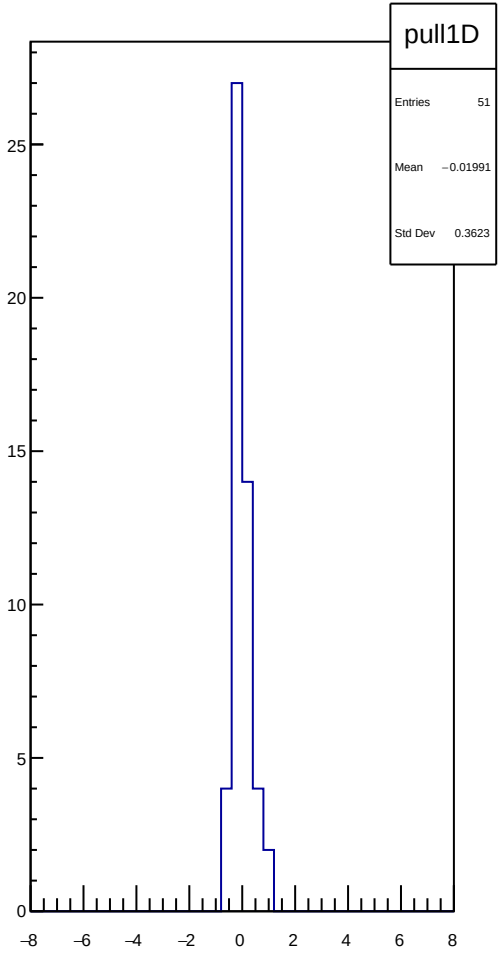

pull1D
Entries 51
Mean 0.01605
Std Dev 0.4953

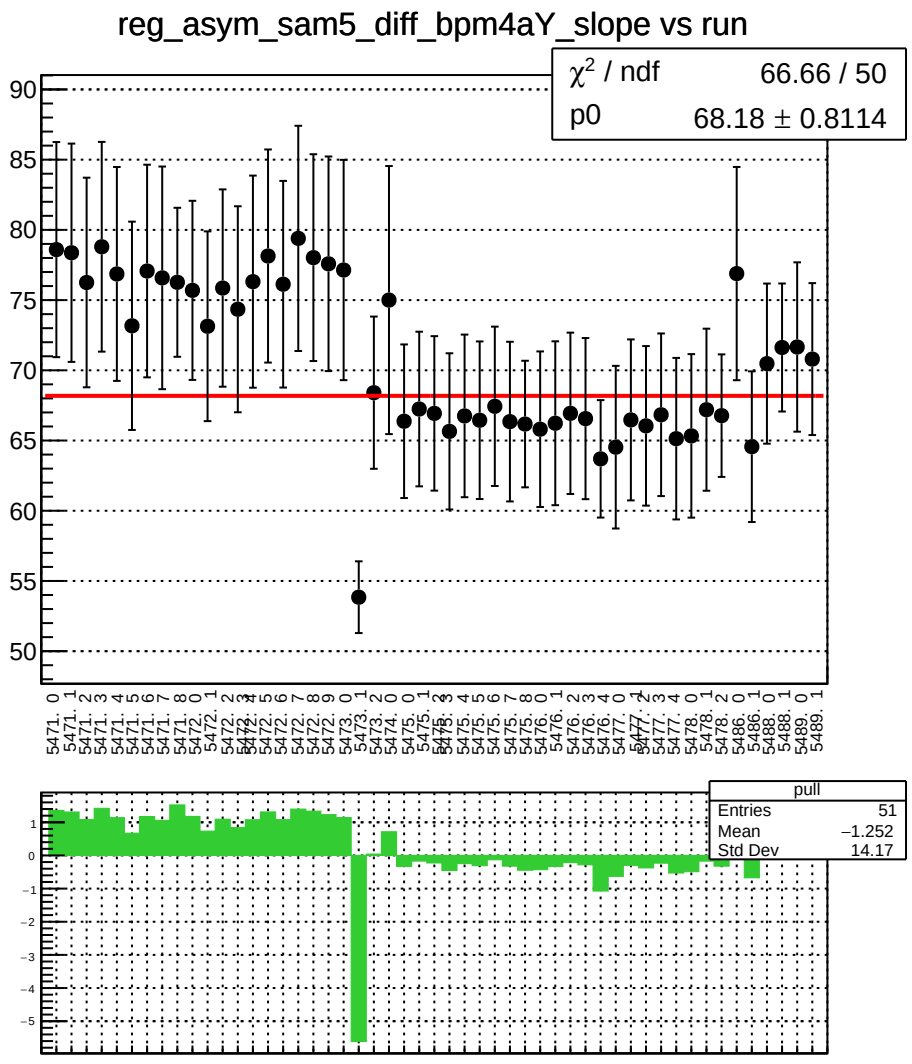

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 132.3 / 50
p0 82.55 ± 3.4
pull
Entries 51
Mean 5.287
Std Dev 2.778
pull1D
Entries 51
Mean −0.4863
Std Dev 1.535

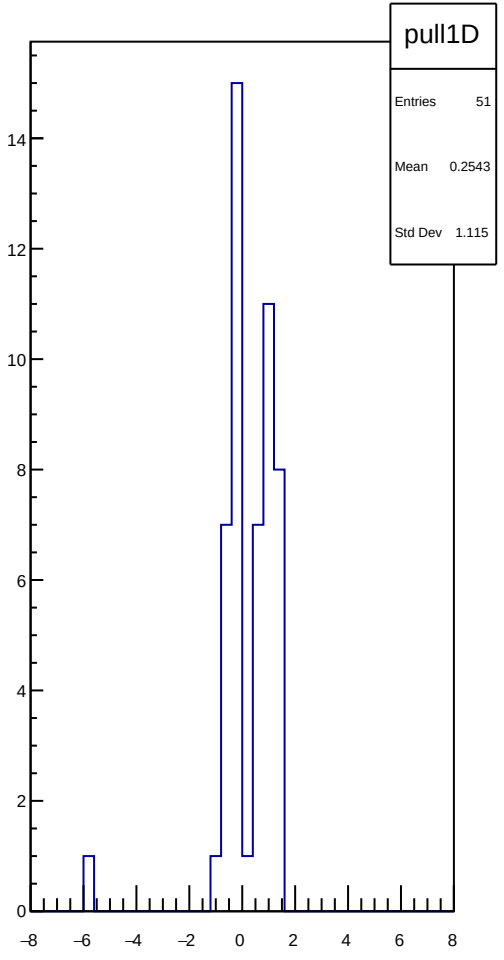

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.408 / 50
p0 −1.559 ± 0.1173
pull
Entries 51
Mean −177.3
Std Dev 205.8

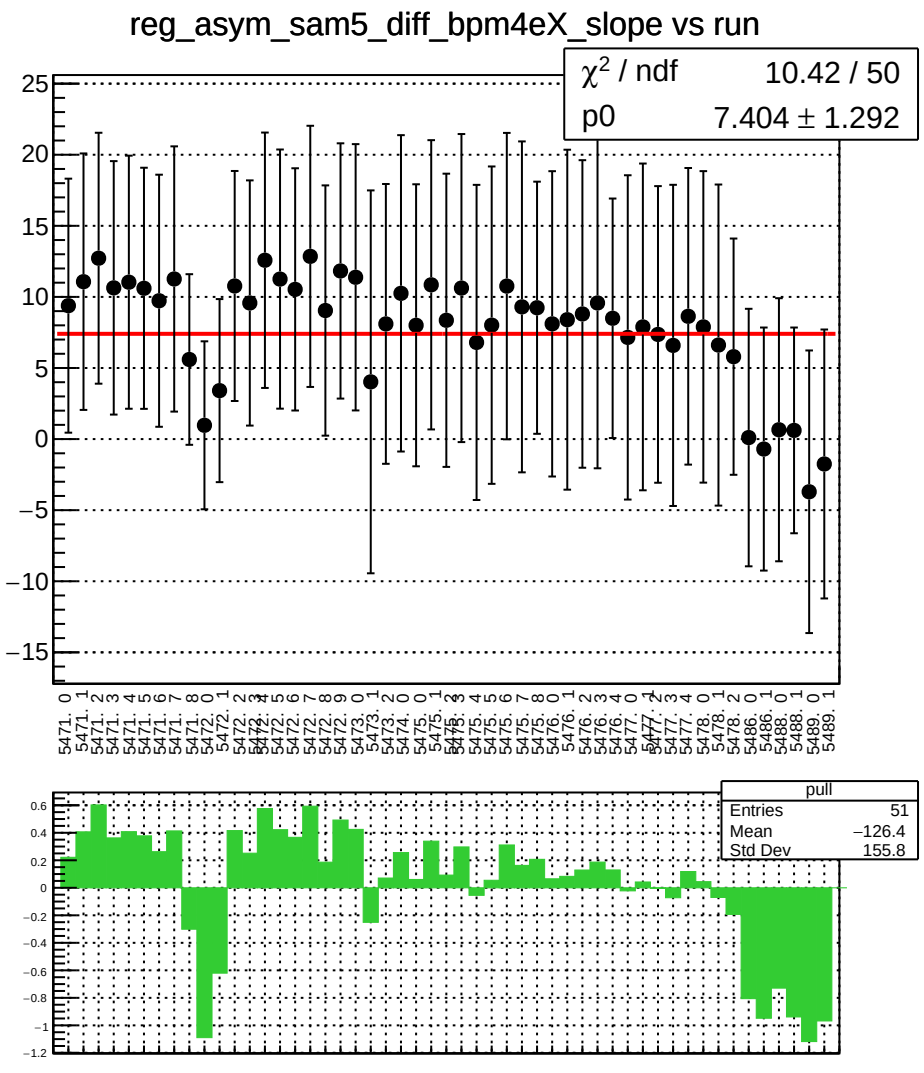

pull1D
Entries 51
Mean −0.009697
Std Dev 0.3255

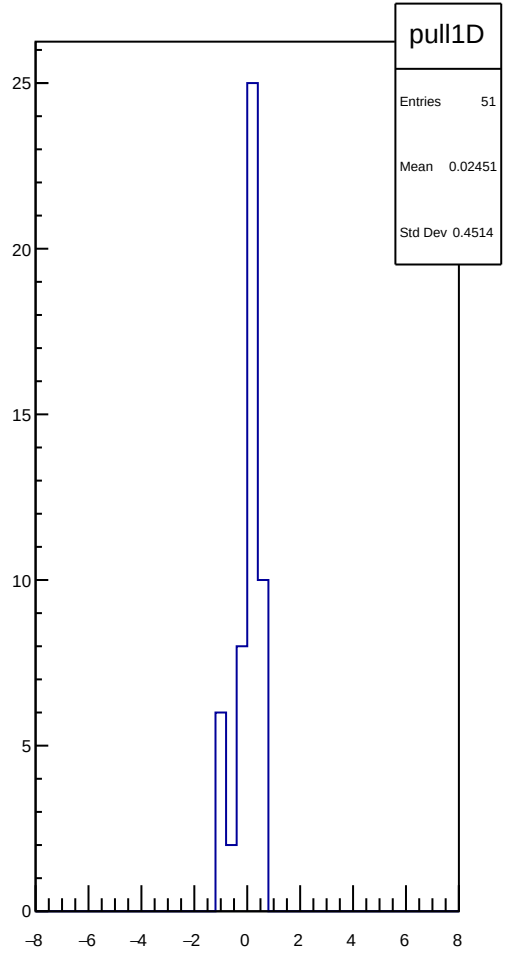

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 6.713 / 50
p0 −0.9501 ± 1.334
pull
Entries 51
Mean −112.6
Std Dev 140.9

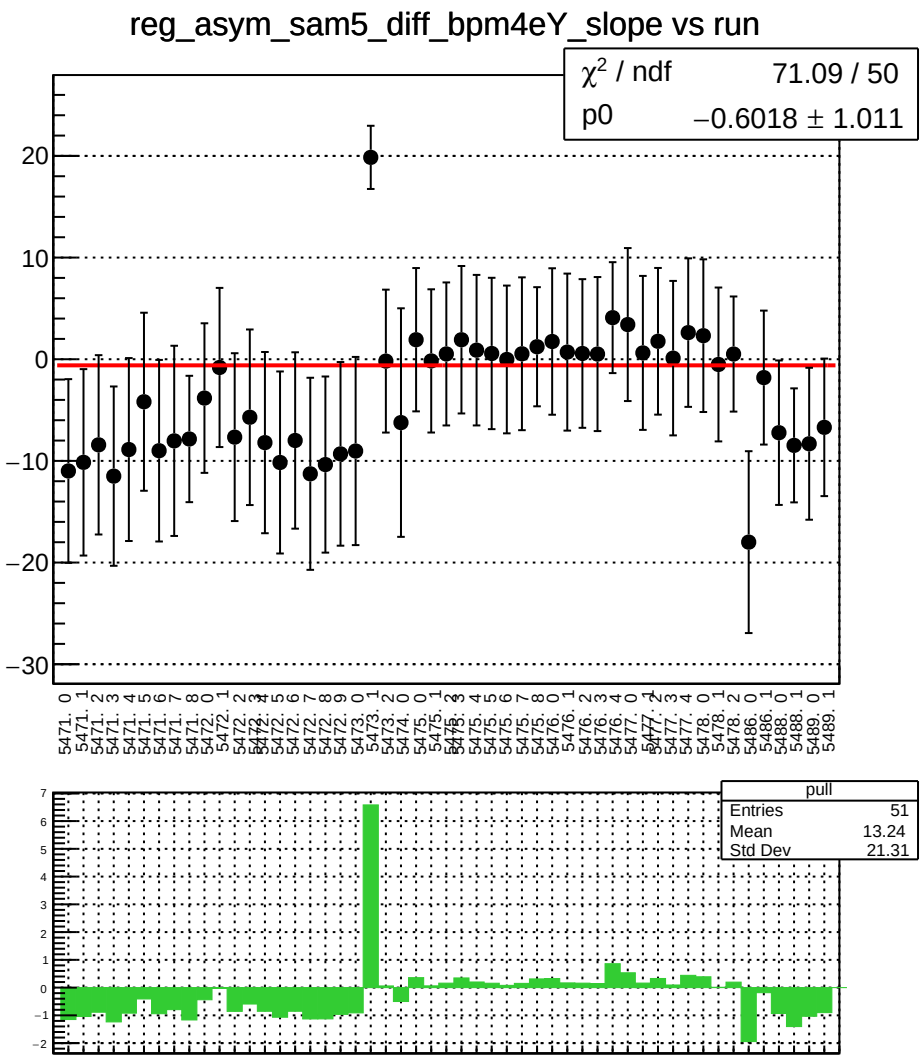

pull1D
Entries 51
Mean −0.01991
Std Dev 0.3623

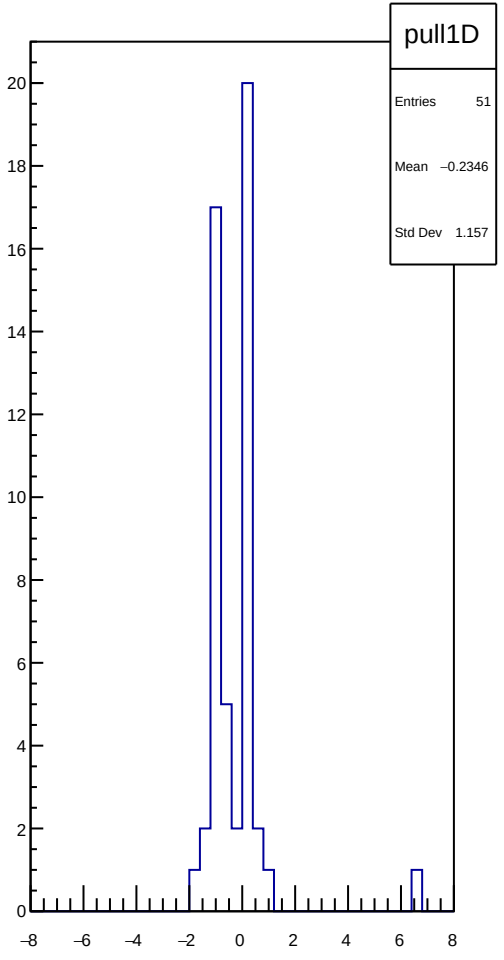

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 66.66 / 50
p0 68.18 ± 0.8114
pull
Entries 51
Mean −1.252
Std Dev 14.17

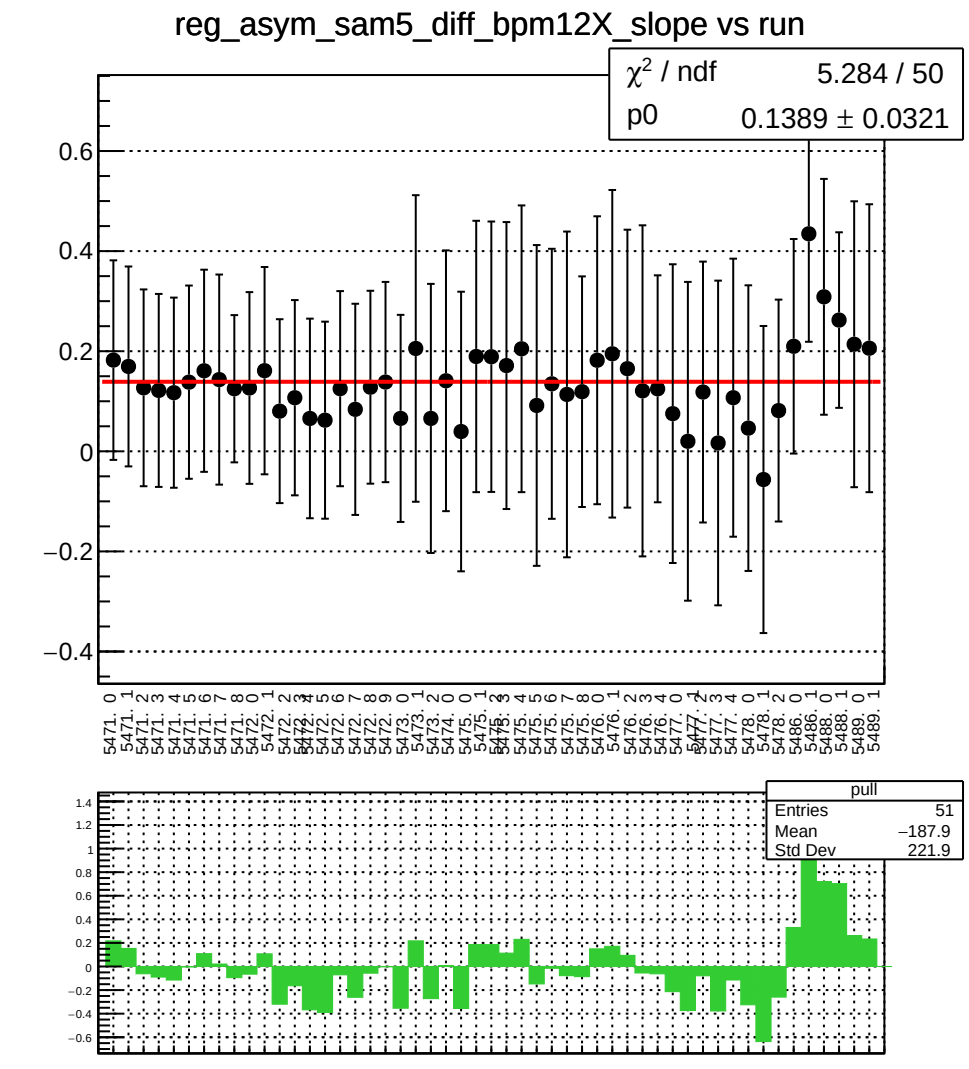

pull1D
Entries 51
Mean 0.2543
Std Dev 1.115

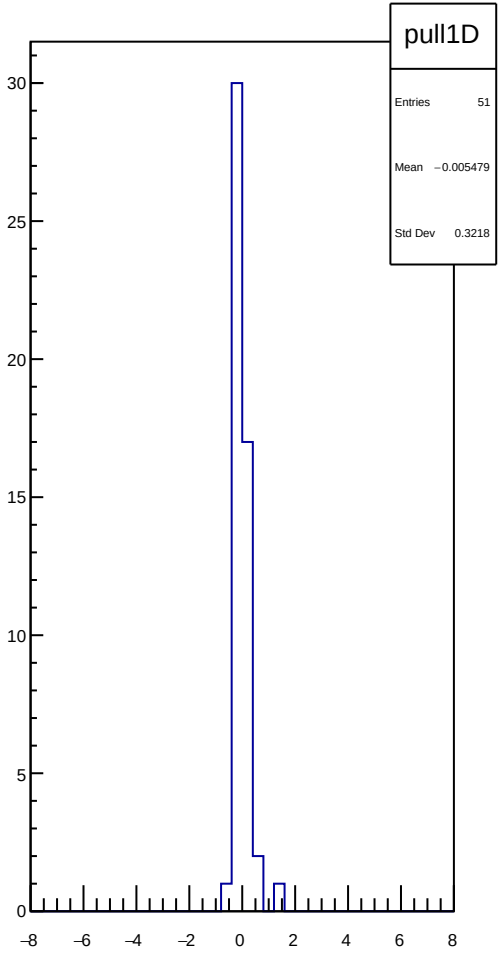

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 10.42 / 50
p0 7.404 ± 1.292
pull
Entries 51
Mean −126.4
Std Dev 155.8

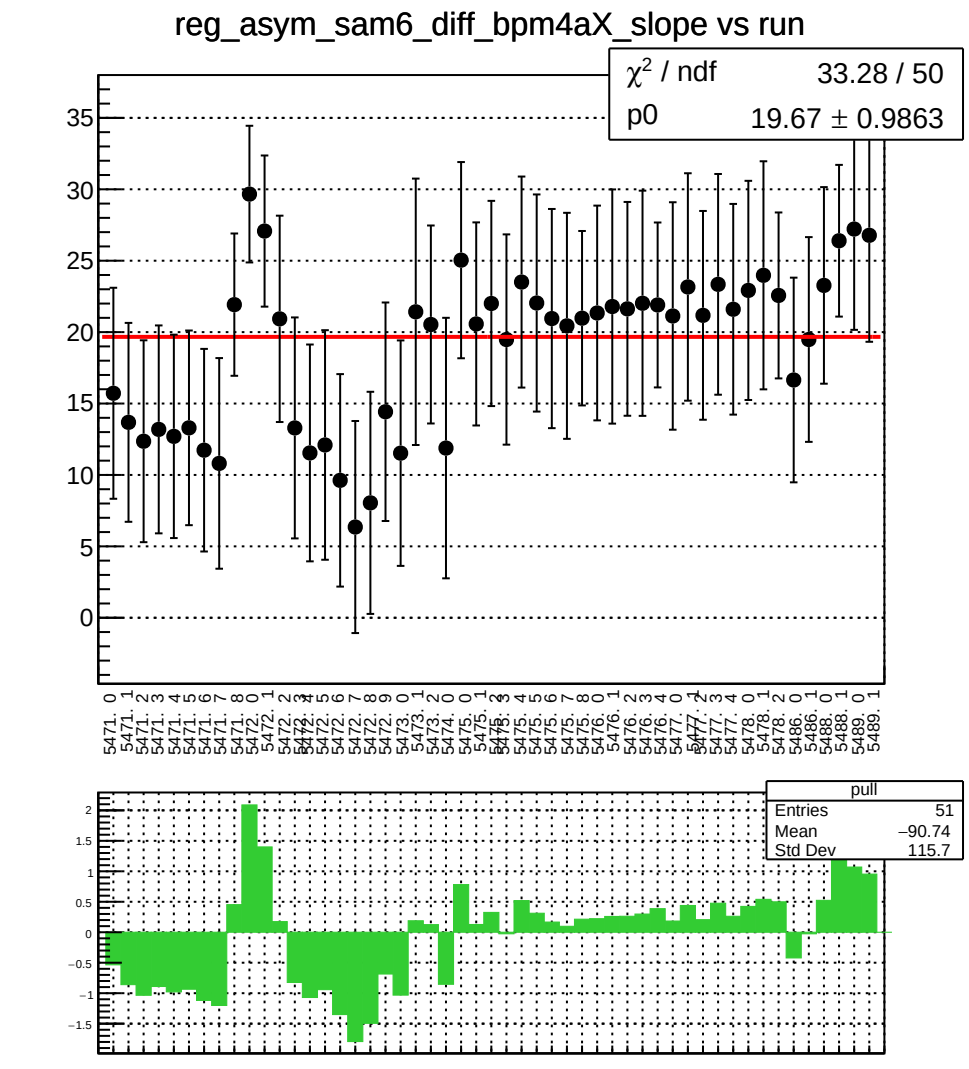

pull1D
Entries 51
Mean 0.02451
Std Dev 0.4514

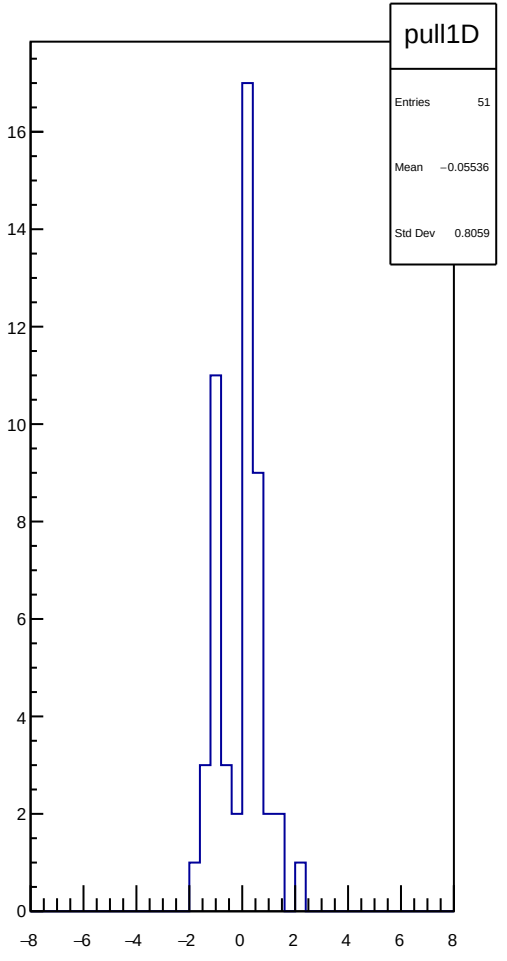

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 71.09 / 50
p0 −0.6018 ± 1.011
pull
Entries 51
Mean 13.24
Std Dev 21.31

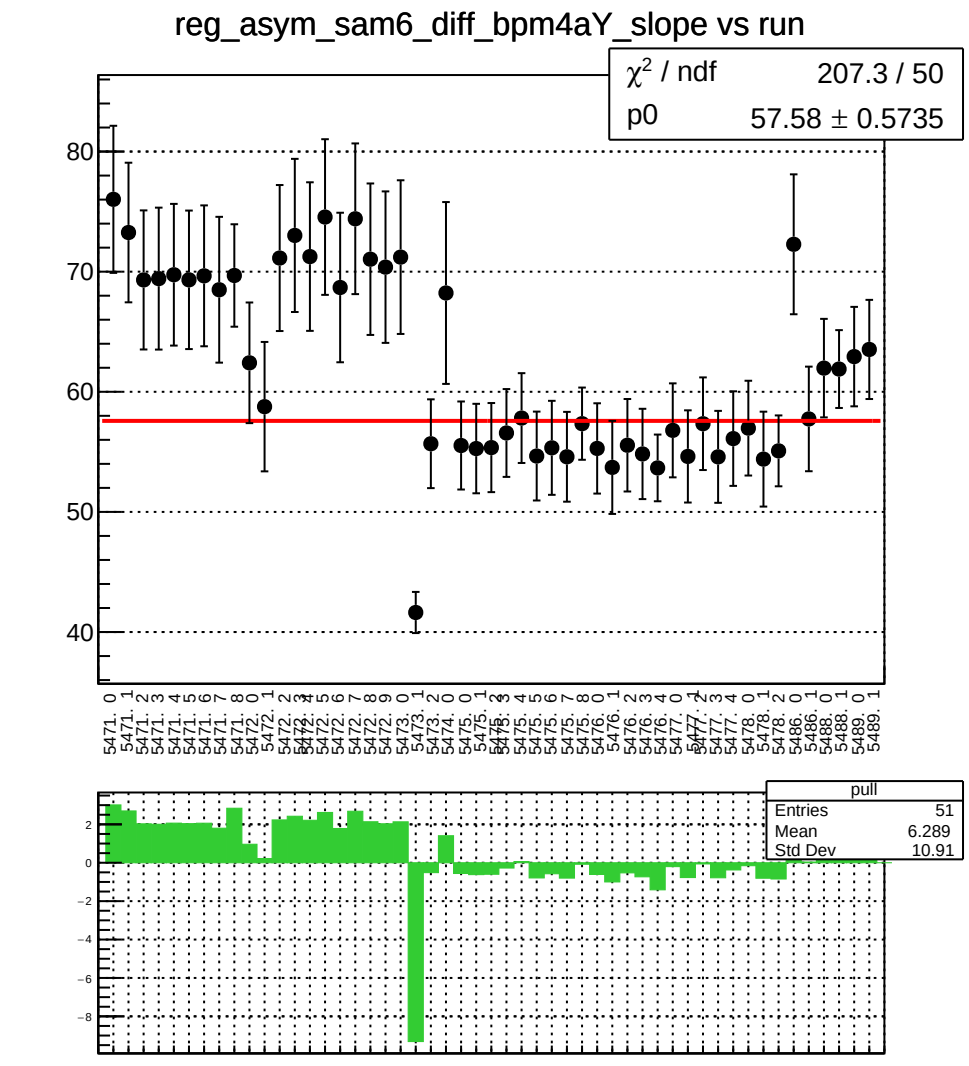

pull1D
Entries 51
Mean −0.2346
Std Dev 1.157

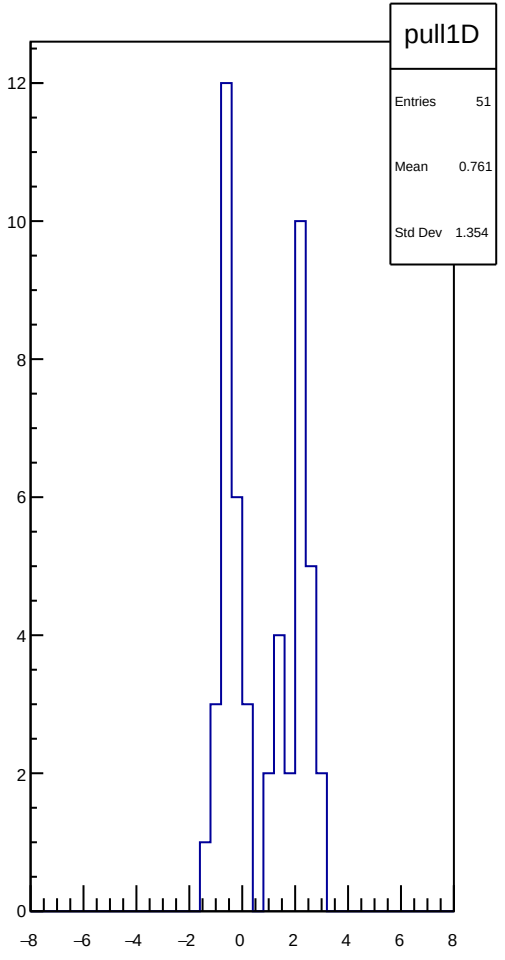

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 5.284 / 50
p0 0.1389 ± 0.0321
pull
Entries 51
Mean −187.9
Std Dev 221.9

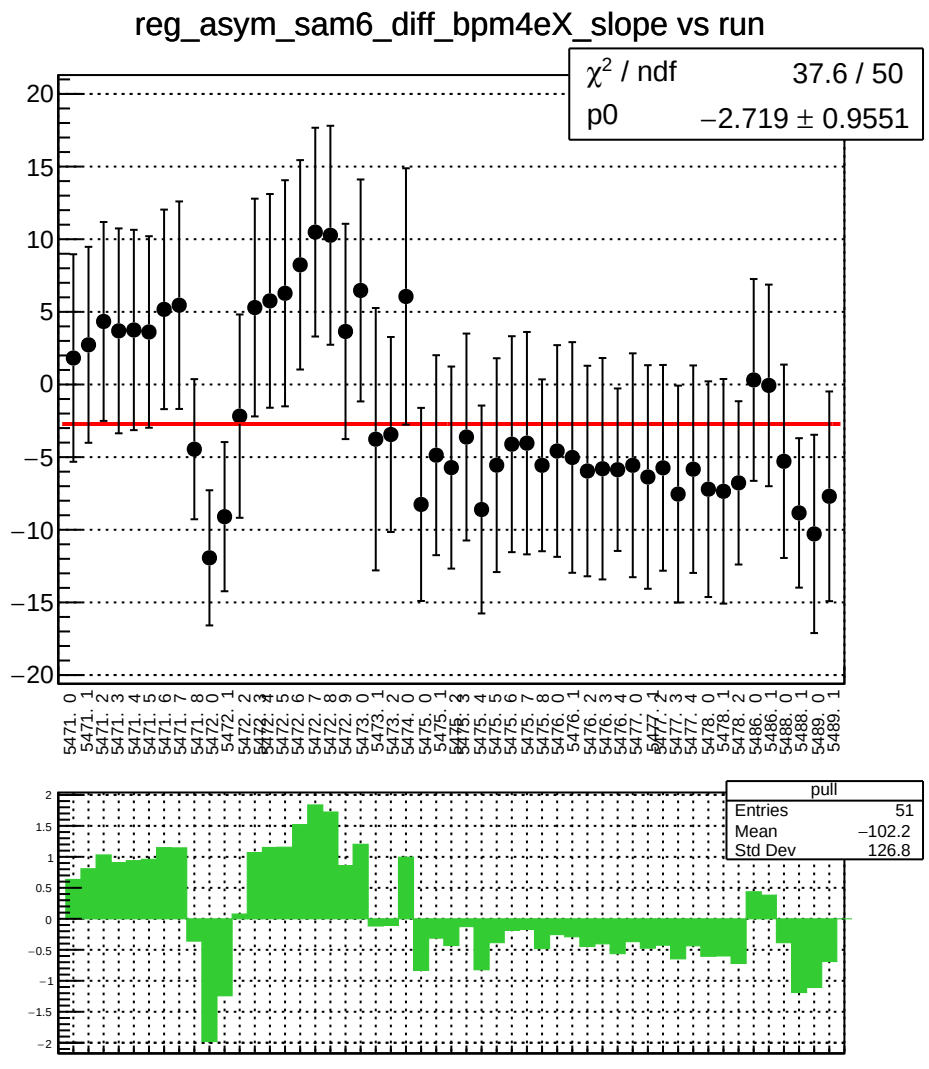

pull1D
Entries 51
Mean −0.005479
Std Dev 0.3218

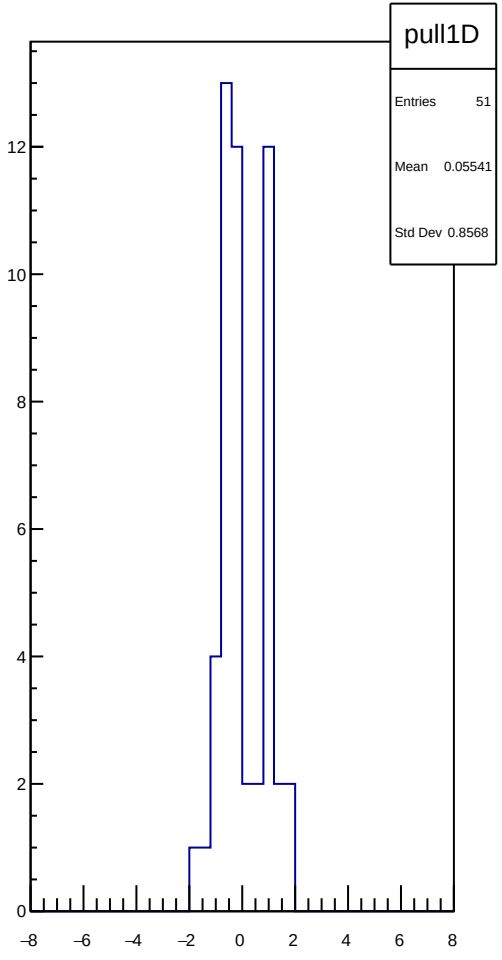

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 33.28 / 50
p0 19.67 ± 0.9863
pull
Entries 51
Mean −90.74
Std Dev 115.7

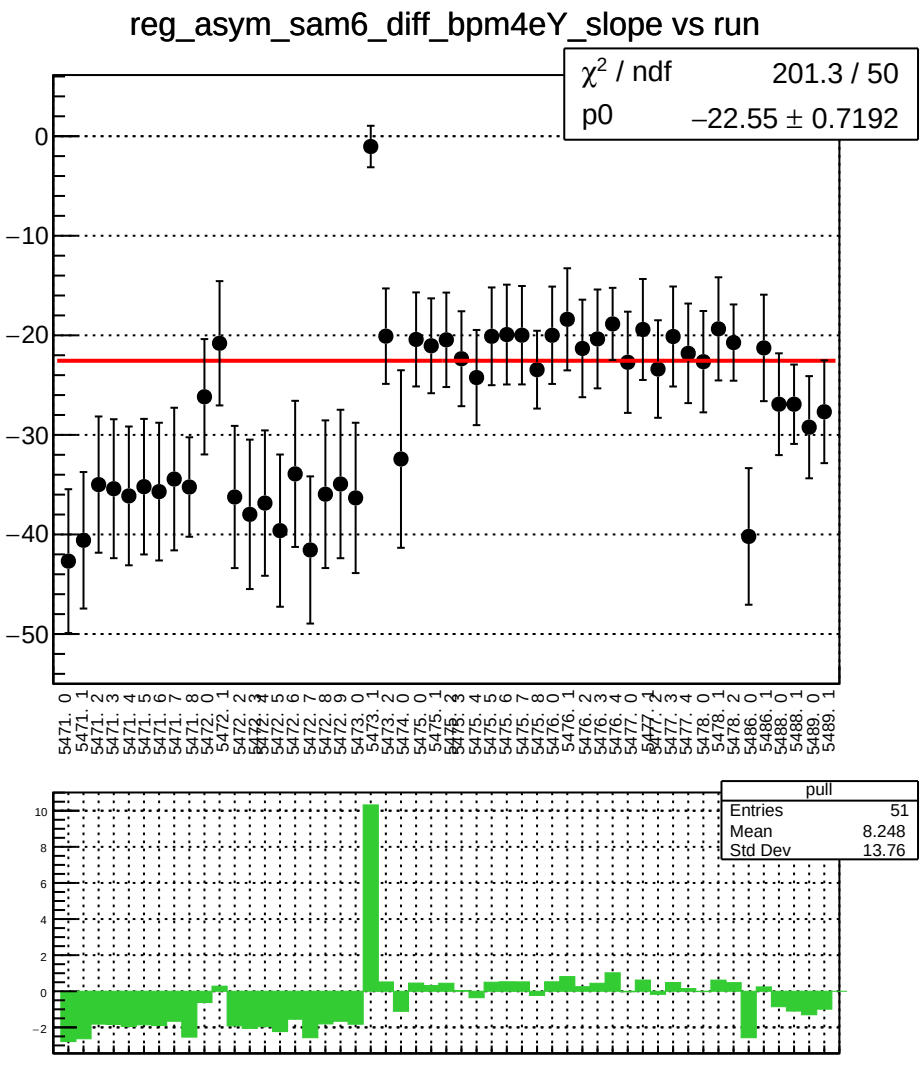

pull1D
Entries 51
Mean −0.05536
Std Dev 0.8059

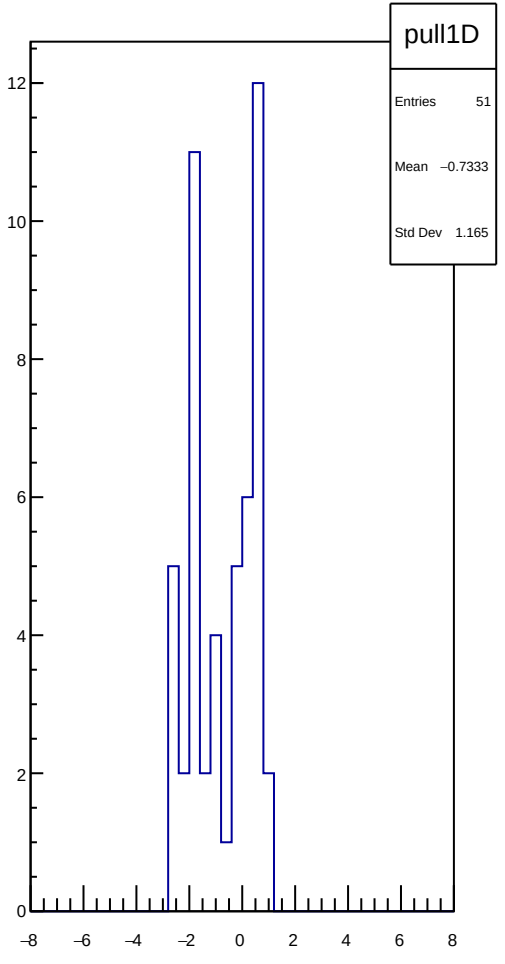

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 207.3 / 50
p0 57.58 ± 0.5735
pull
Entries 51
Mean 6.289
Std Dev 10.91

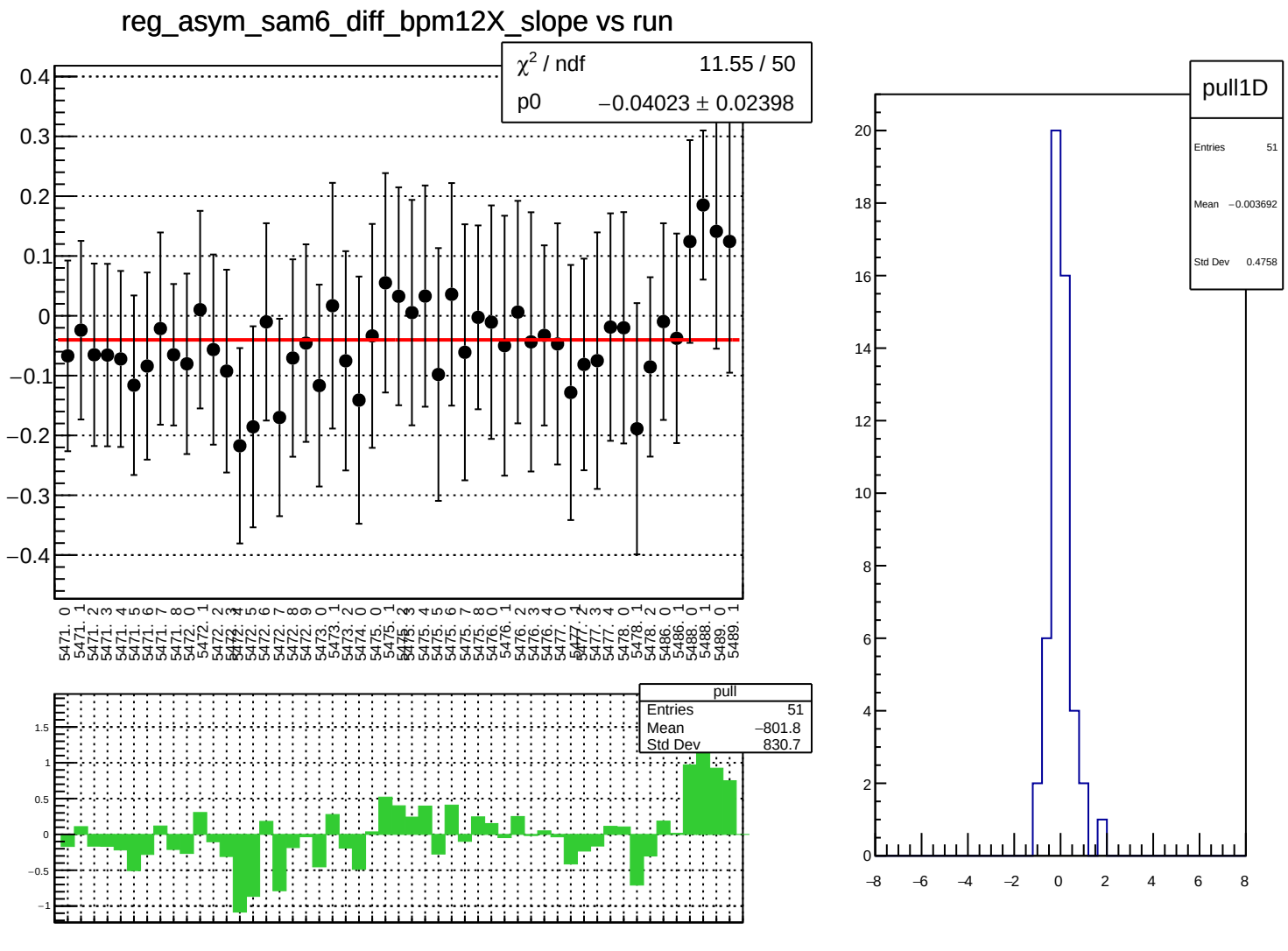

pull1D
Entries 51
Mean 0.761
Std Dev 1.354

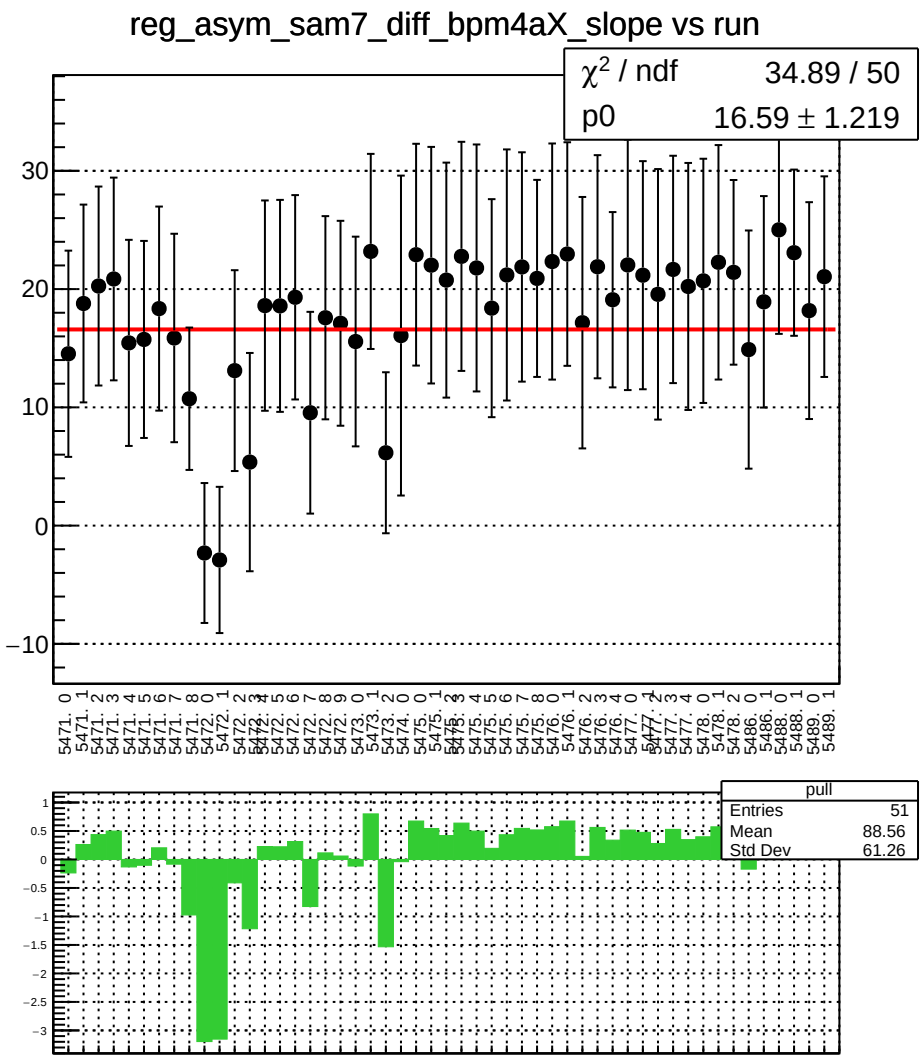

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 37.6 / 50
p0 −2.719 ± 0.9551
pull
Entries 51
Mean −102.2
Std Dev 126.8

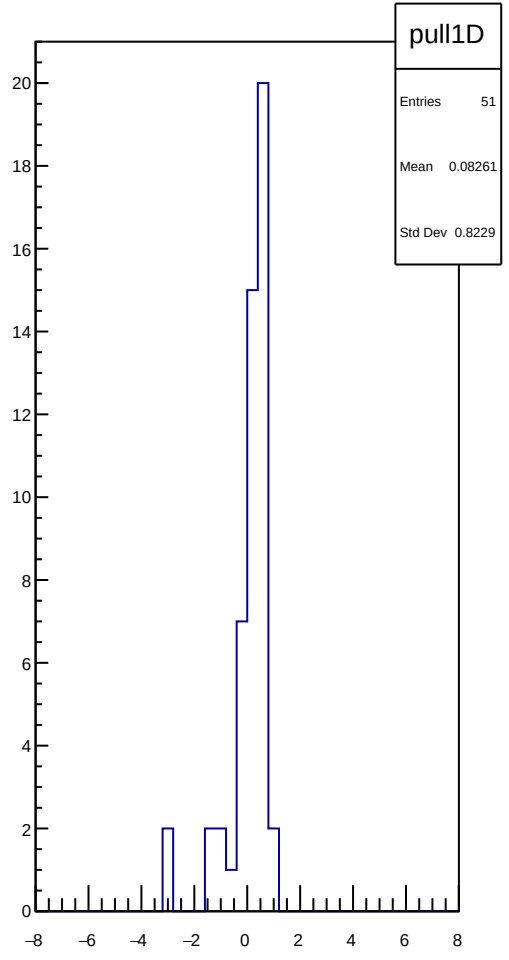

pull1D
Entries 51
Mean 0.05541
Std Dev 0.8568

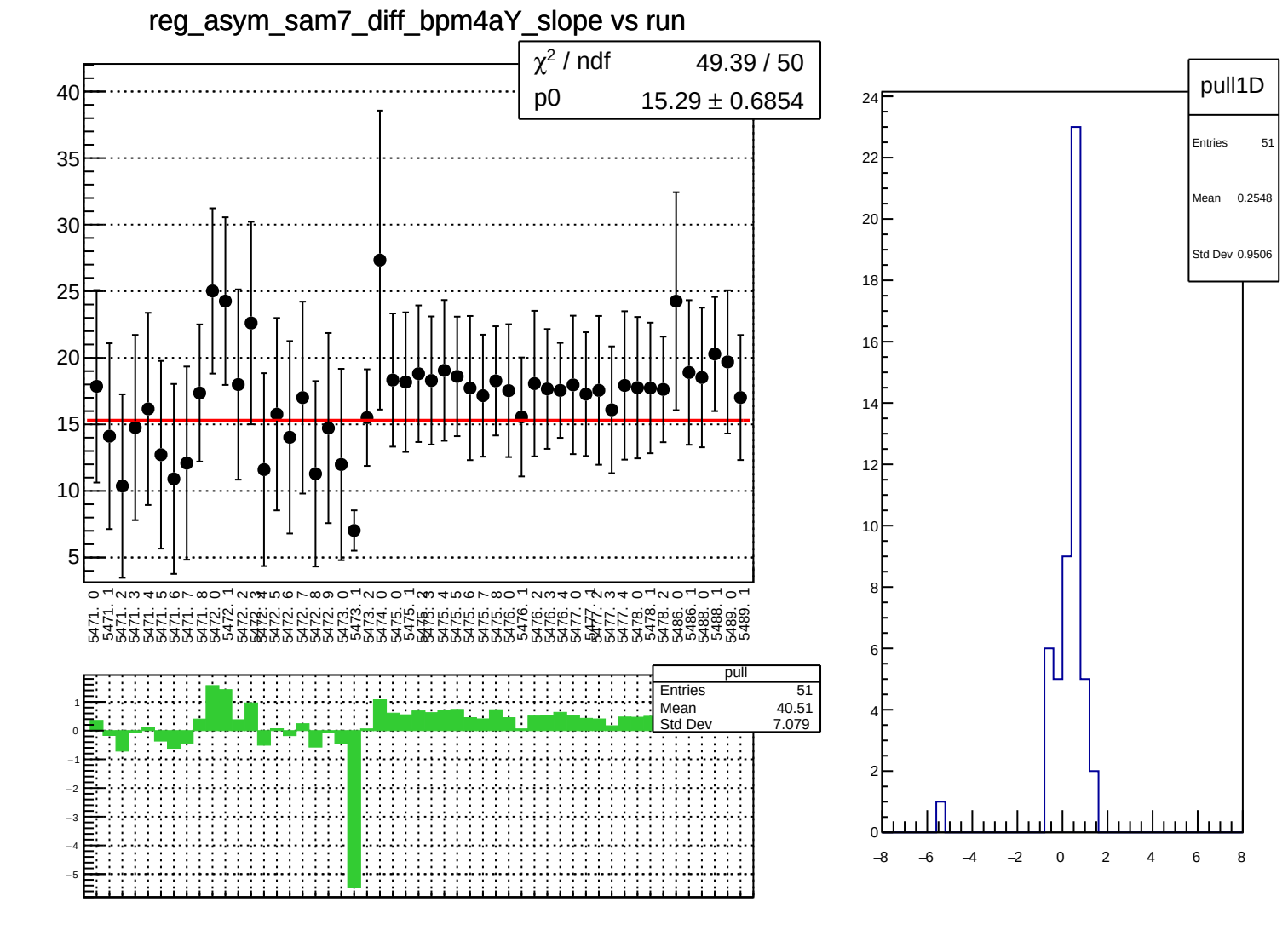

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 201.3 / 50
p0 −22.55 ± 0.7192
pull
Entries 51
Mean 8.248
Std Dev 13.76

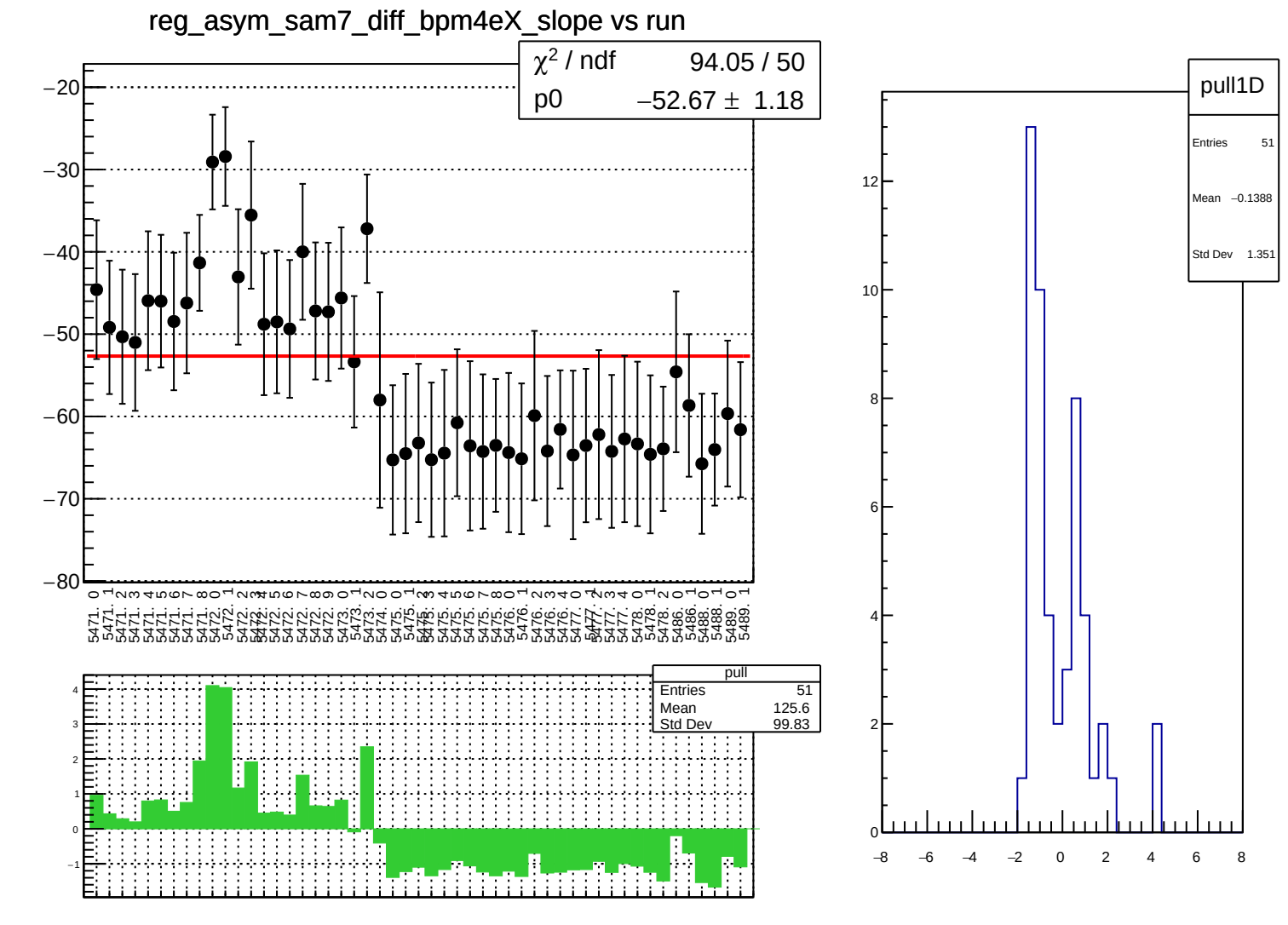

pull1D
Entries 51
Mean −0.7333
Std Dev 1.165

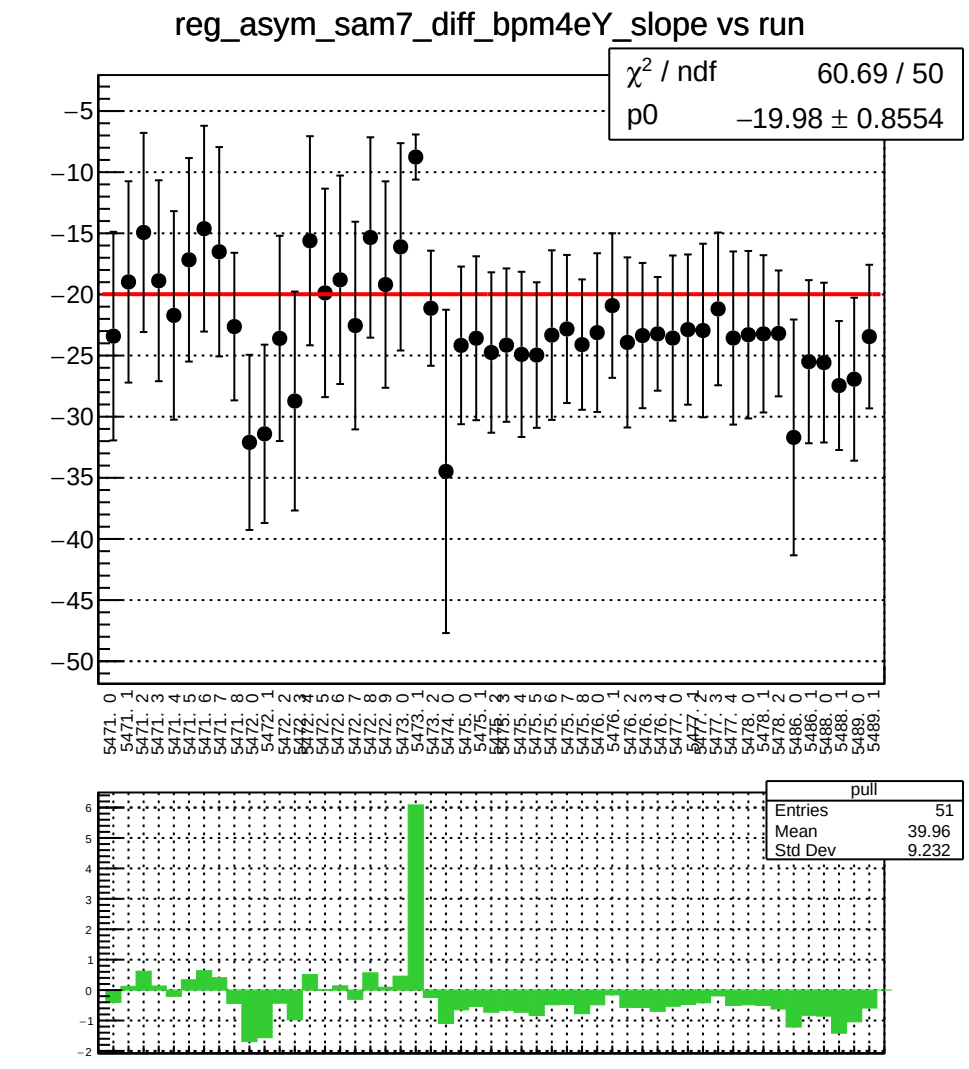

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 11.55 / 50
p0 −0.04023 ± 0.02398
pull
Entries 51
Mean −801.8
Std Dev 830.7
pull1D
Entries 51
Mean −0.003692
Std Dev 0.4758

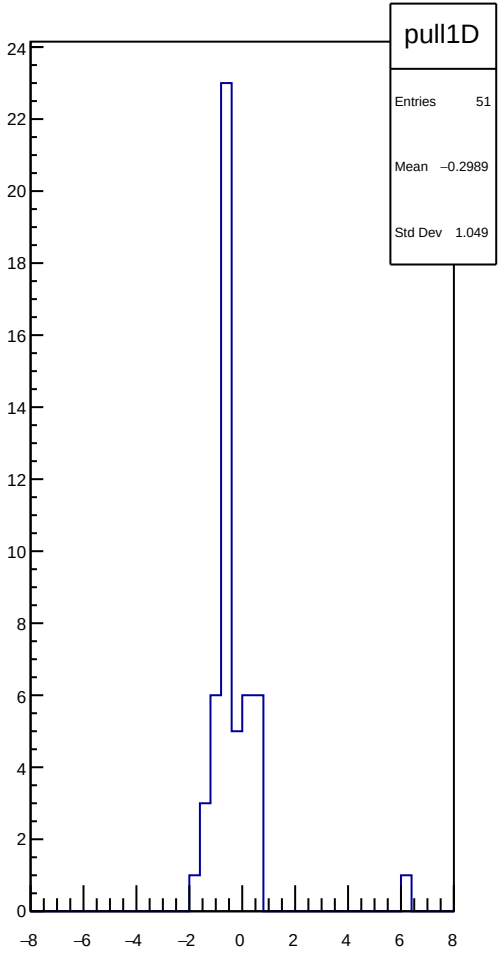

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 34.89 / 50
p0 16.59 ± 1.219
pull
Entries 51
Mean 88.56
Std Dev 61.26

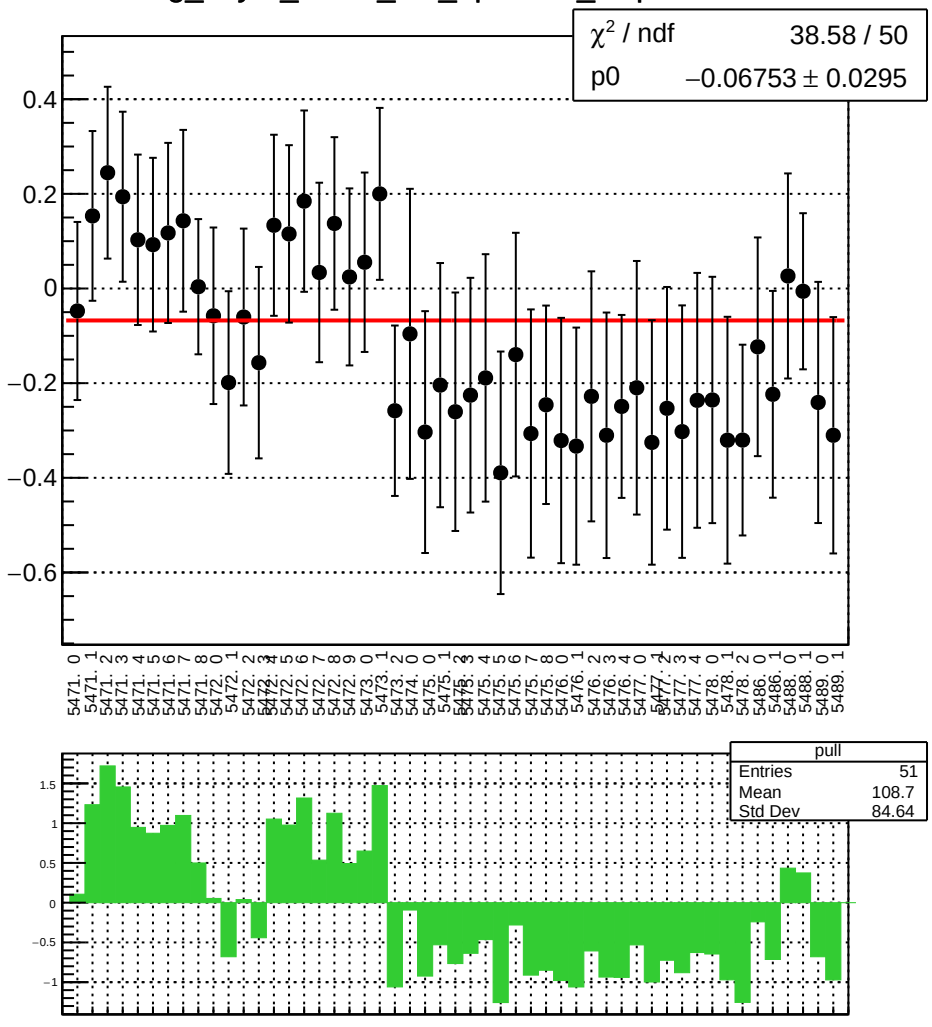

pull1D
Entries 51
Mean 0.08261
Std Dev 0.8229

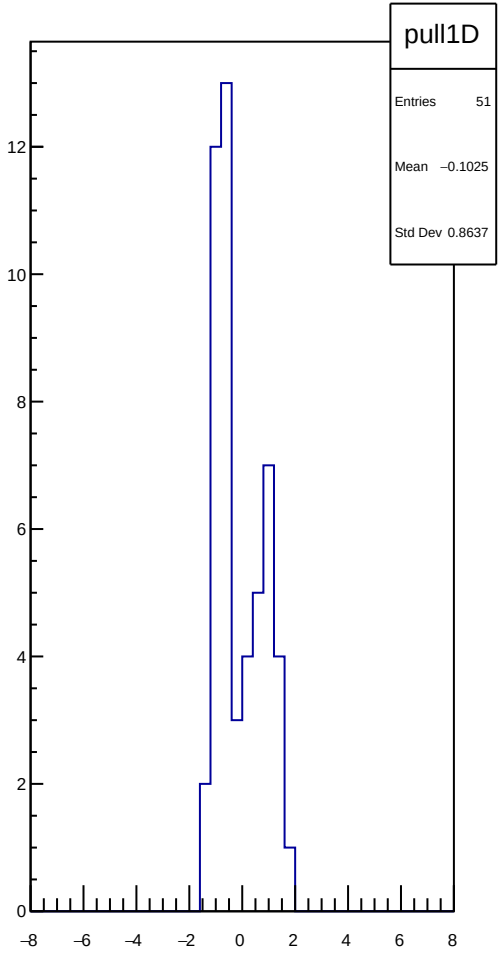

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 49.39 / 50
p0 15.29 ± 0.6854
pull
Entries 51
Mean 40.51
Std Dev 7.079
pull1D
Entries 51
Mean 0.2548
Std Dev 0.9506

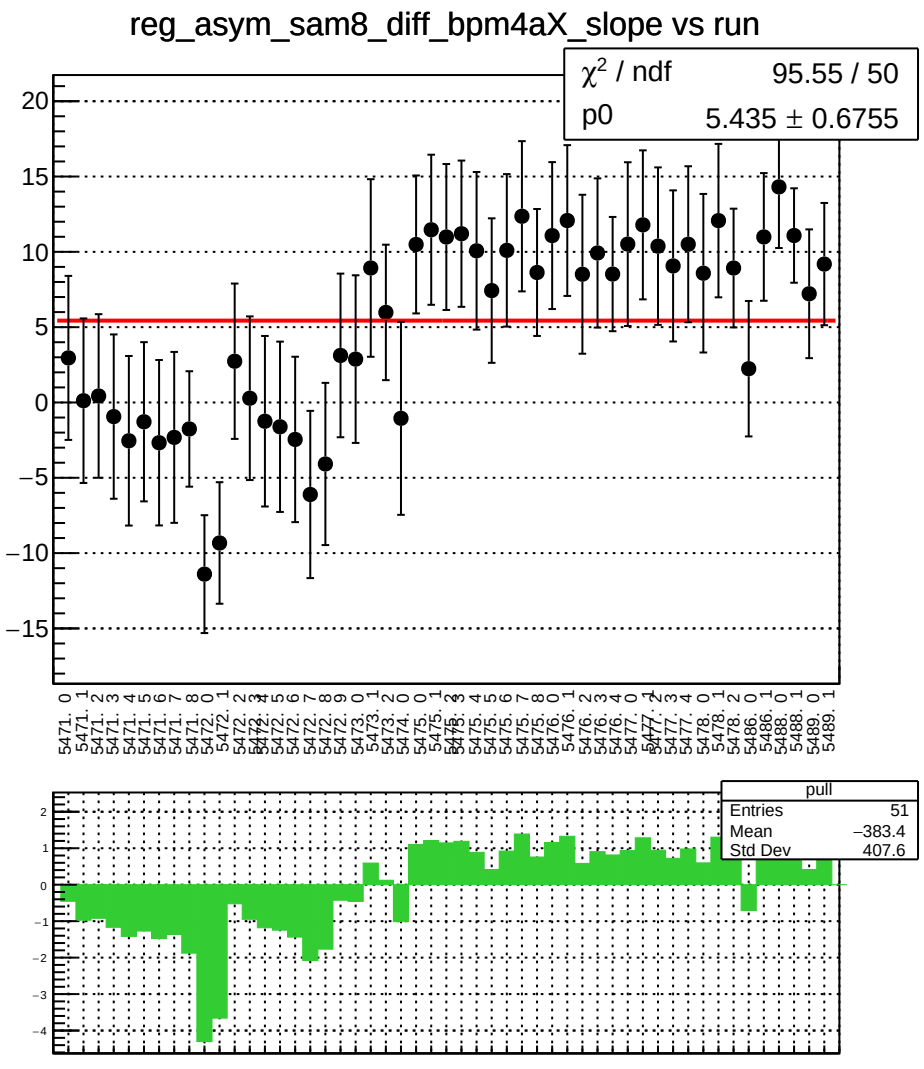

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 94.05 / 50
p0 −52.67 ± 1.18
pull
Entries 51
Mean 125.6
Std Dev 99.83
pull1D
Entries 51
Mean −0.1388
Std Dev 1.351

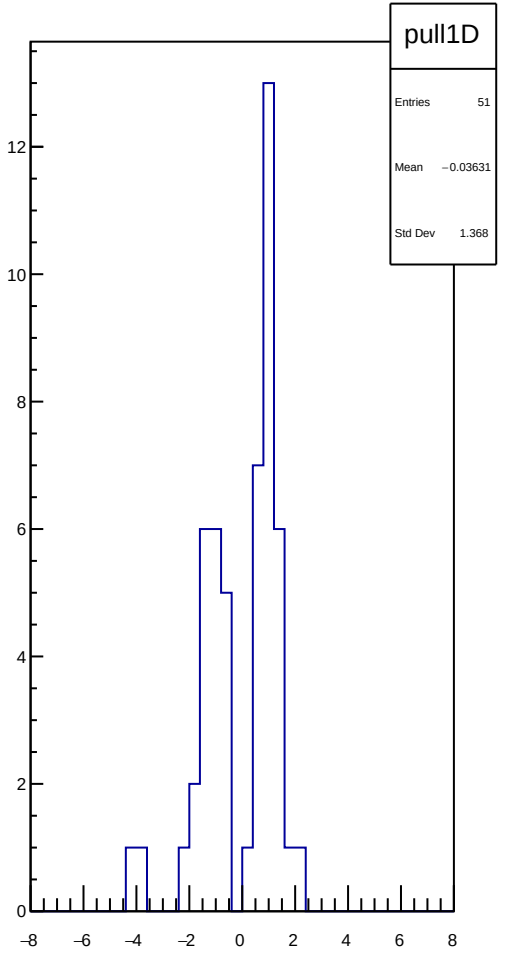

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 60.69 / 50
p0 −19.98 ± 0.8554
pull
Entries 51
Mean 39.96
Std Dev 9.232

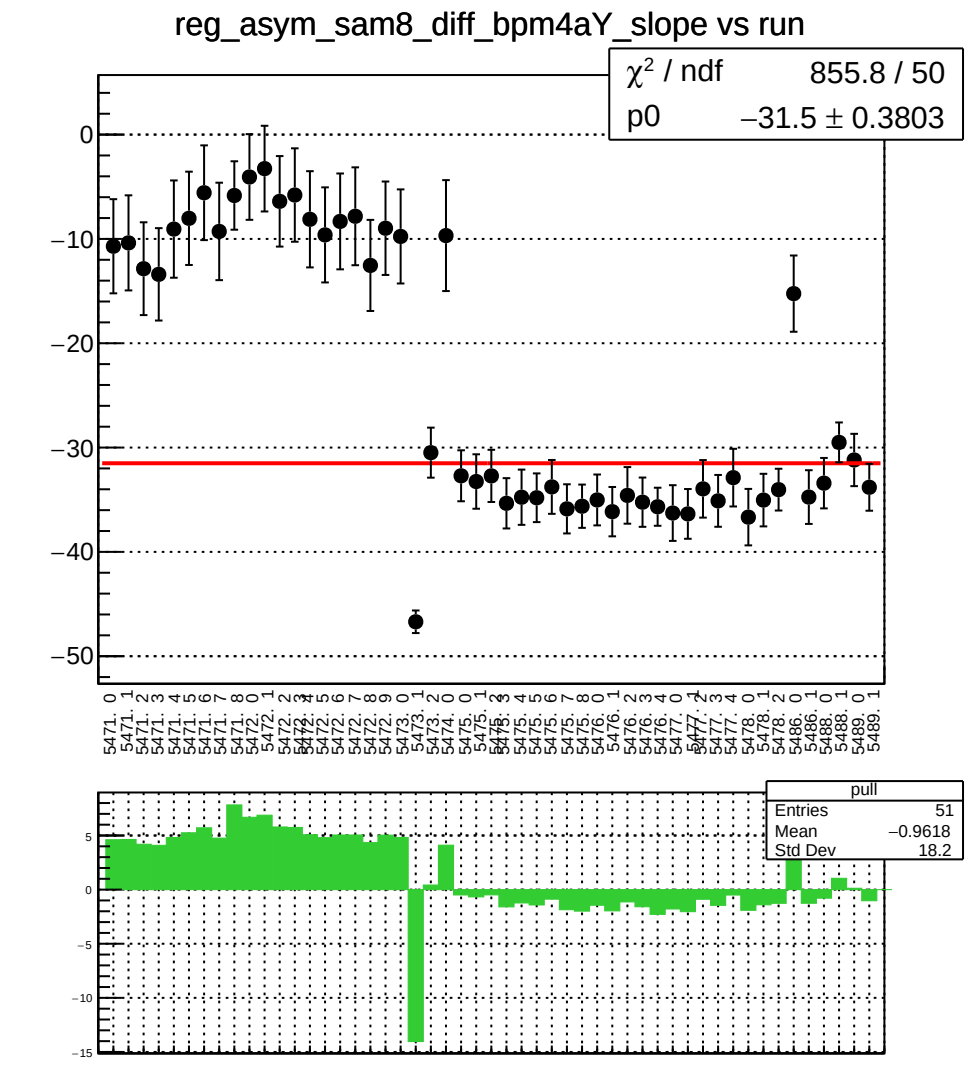

pull1D
Entries 51
Mean −0.2989
Std Dev 1.049

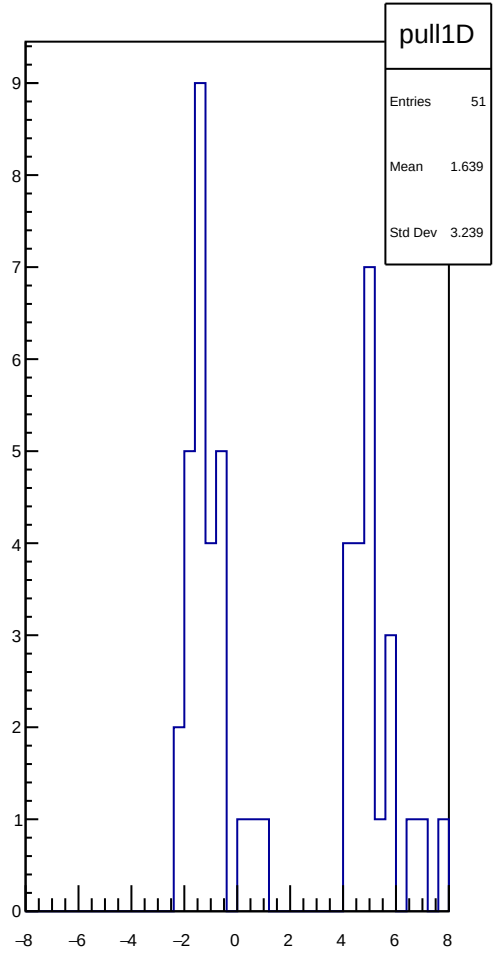

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 38.58 / 50
p0 −0.06753 ± 0.0295
pull
Entries 51
Mean 108.7
Std Dev 84.64

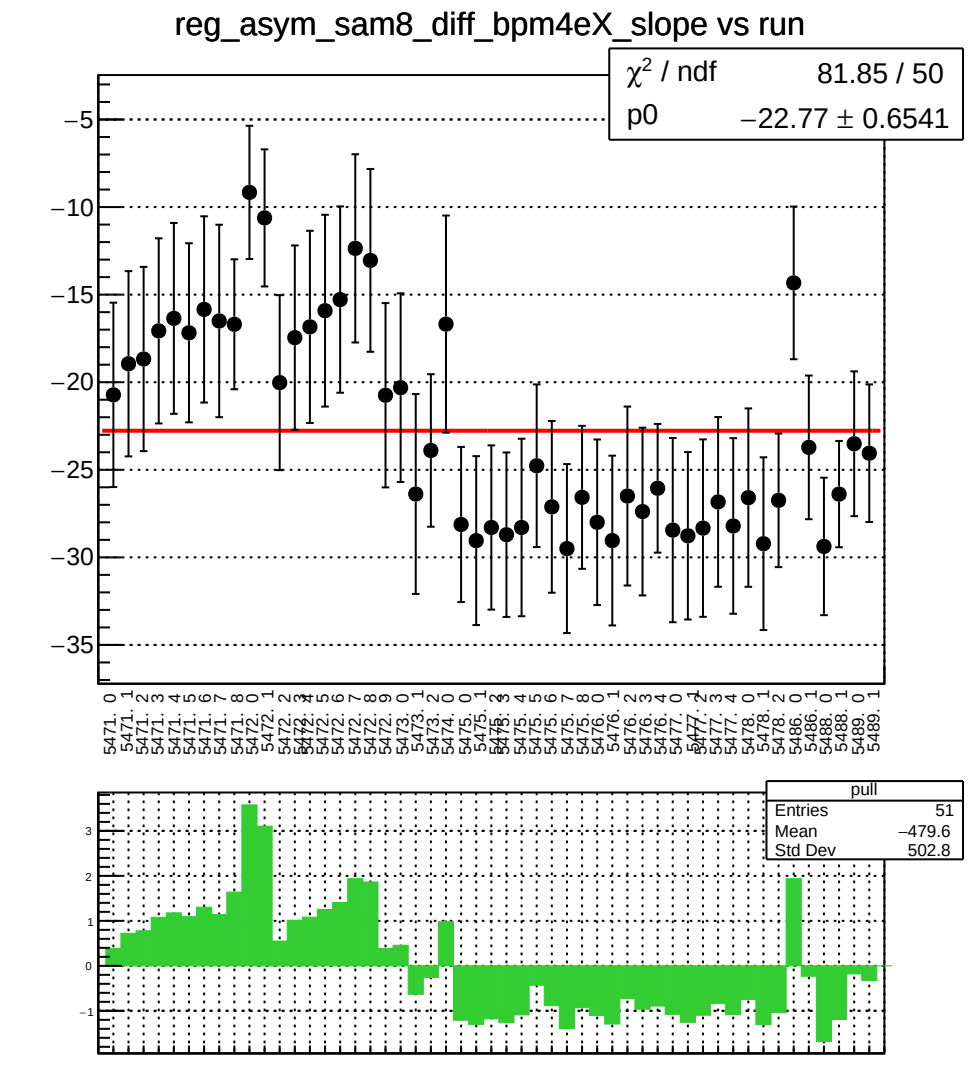

pull1D
Entries 51
Mean −0.1025
Std Dev 0.8637

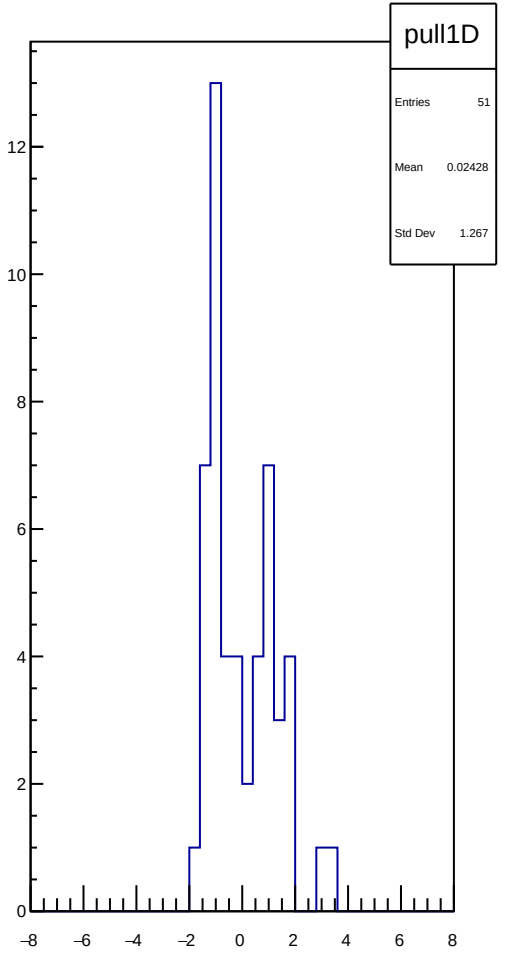

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 95.55 / 50
p0 5.435 ± 0.6755
pull
Entries 51
Mean −383.4
Std Dev 407.6

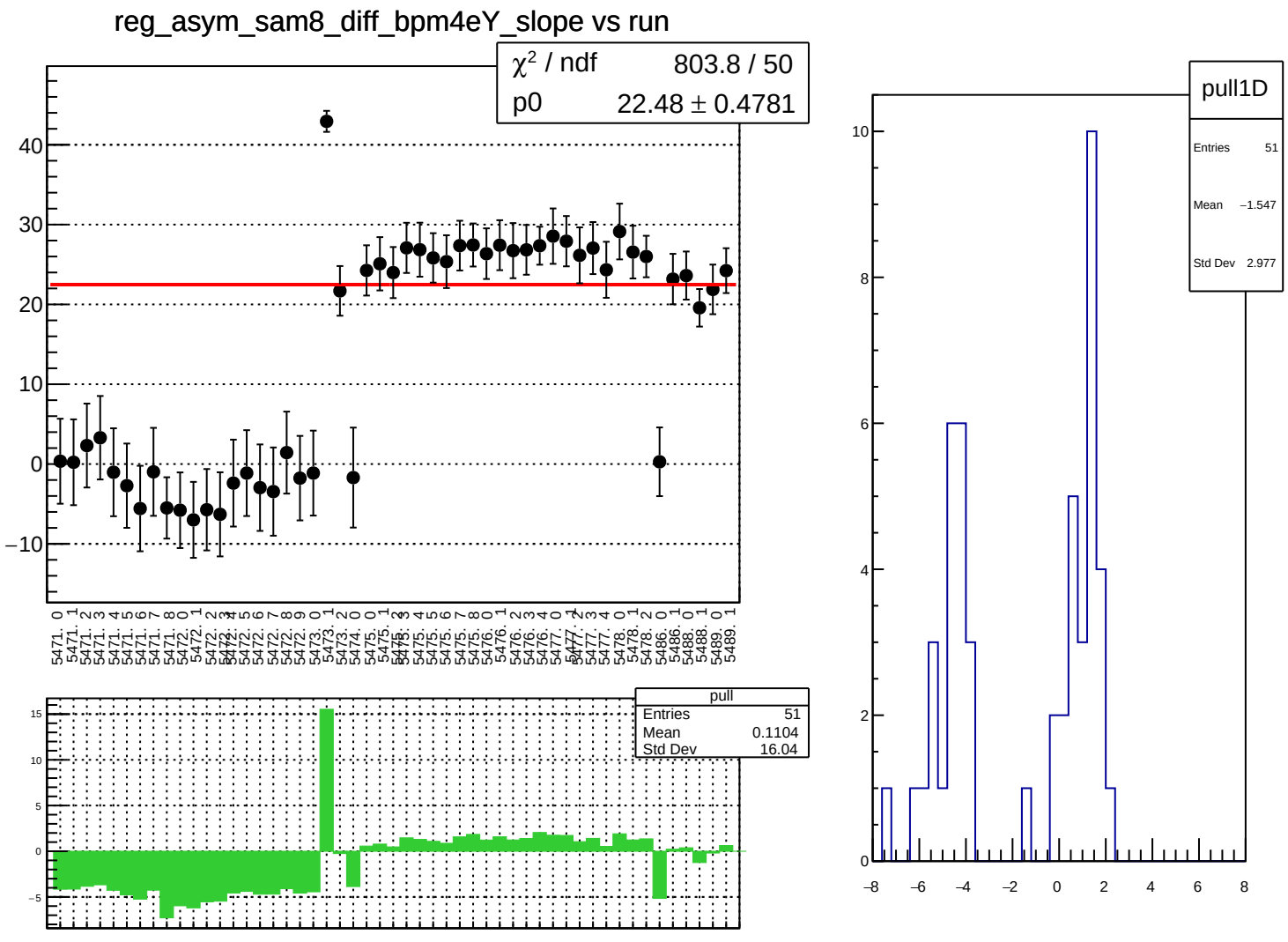

pull1D
Entries 51
Mean −0.03631
Std Dev 1.368

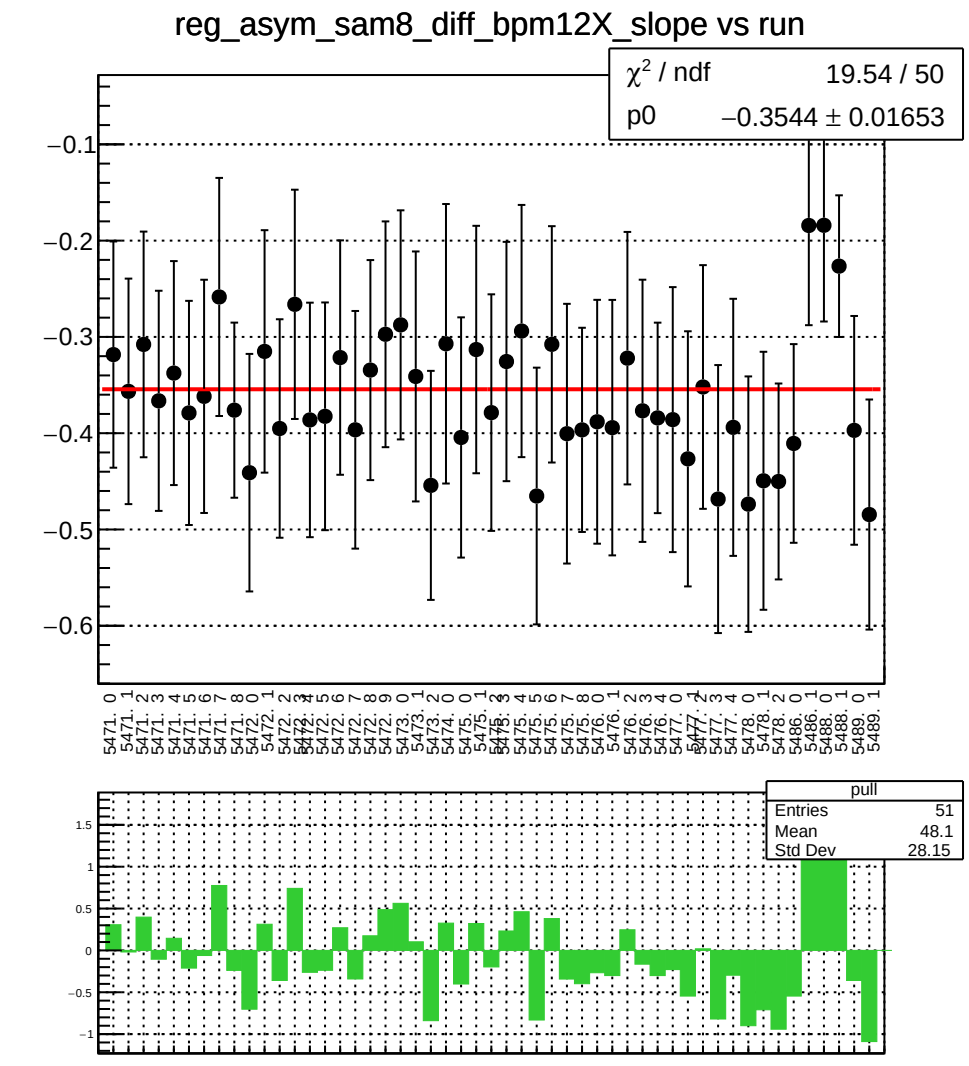

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 855.8 / 50
p0 −31.5 ± 0.3803
pull
Entries 51
Mean −0.9618
Std Dev 18.2

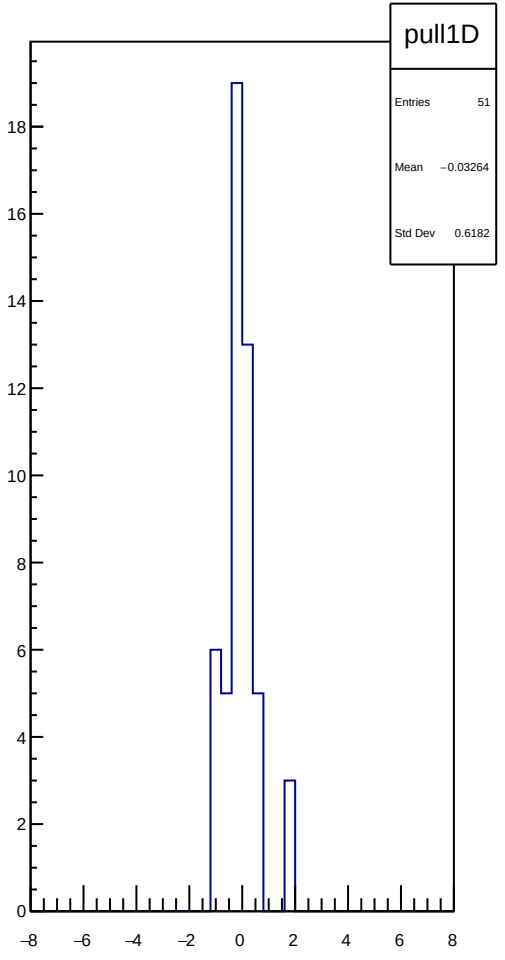

pull1D
Entries 51
Mean 1.639
Std Dev 3.239

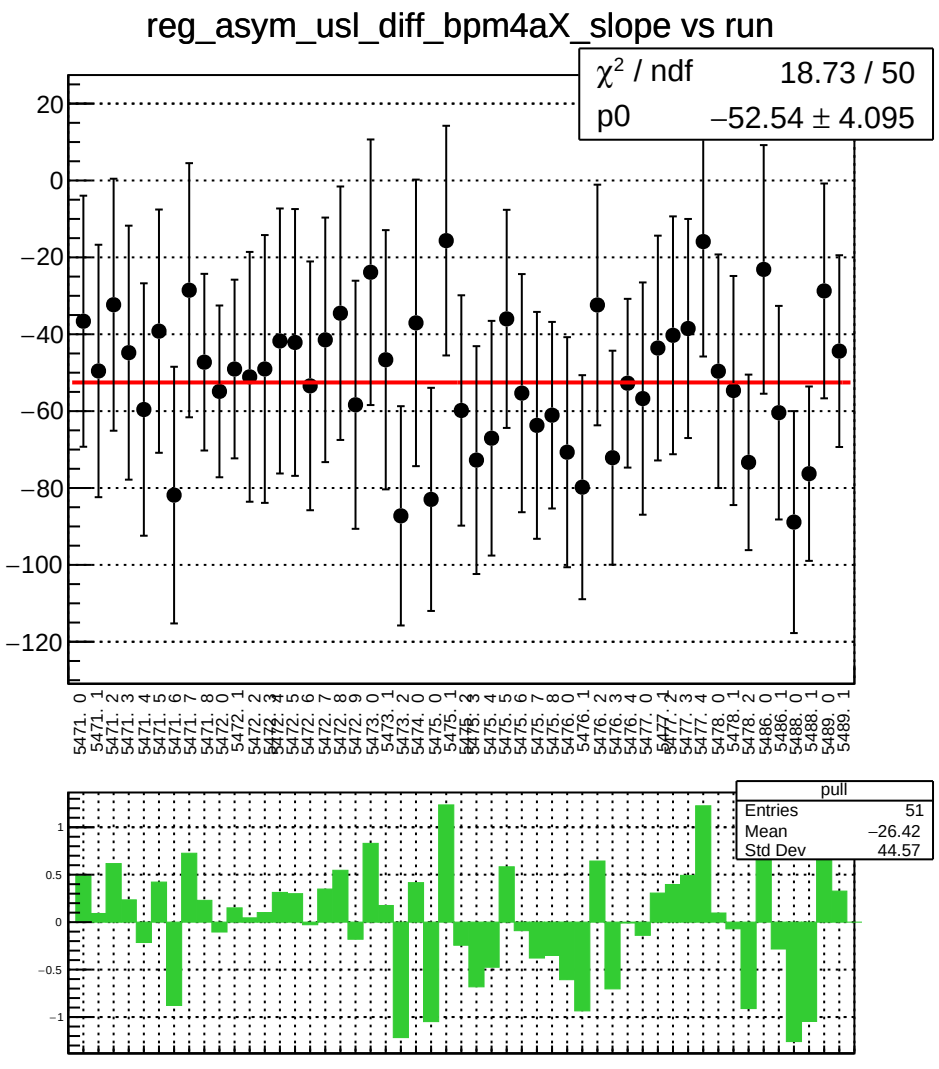

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 81.85 / 50
p0 −22.77 ± 0.6541
pull
Entries 51
Mean −479.6
Std Dev 502.8

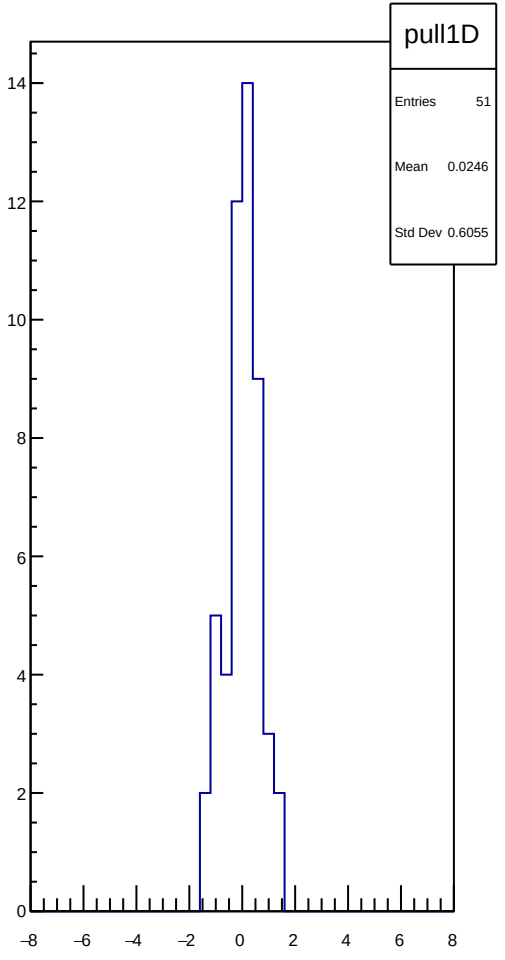

pull1D
Entries 51
Mean 0.02428
Std Dev 1.267

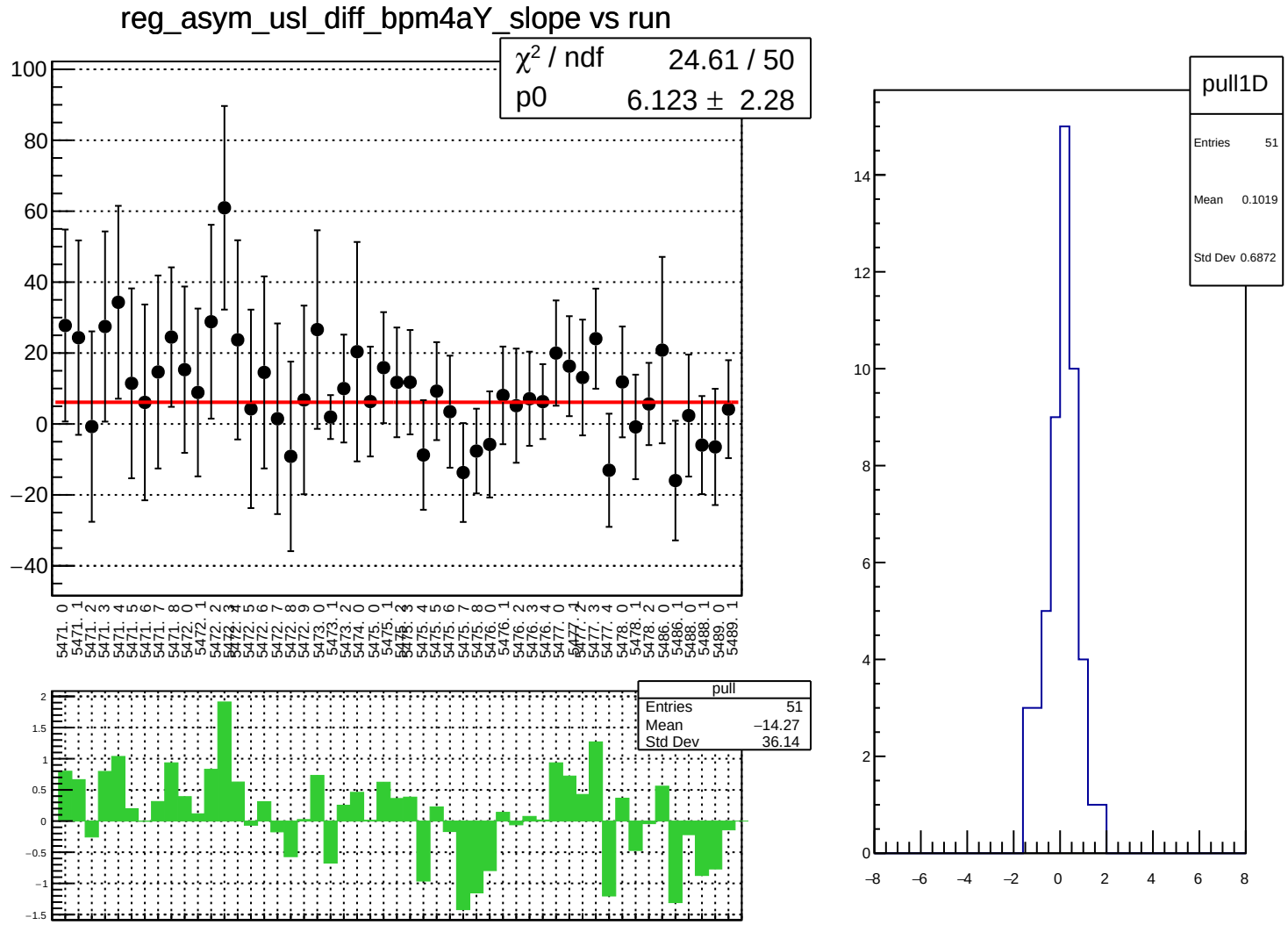

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 803.8 / 50
p0 22.48 ± 0.4781
pull
Entries 51
Mean 0.1104
Std Dev 16.04
pull1D
Entries 51
Mean −1.547
Std Dev 2.977

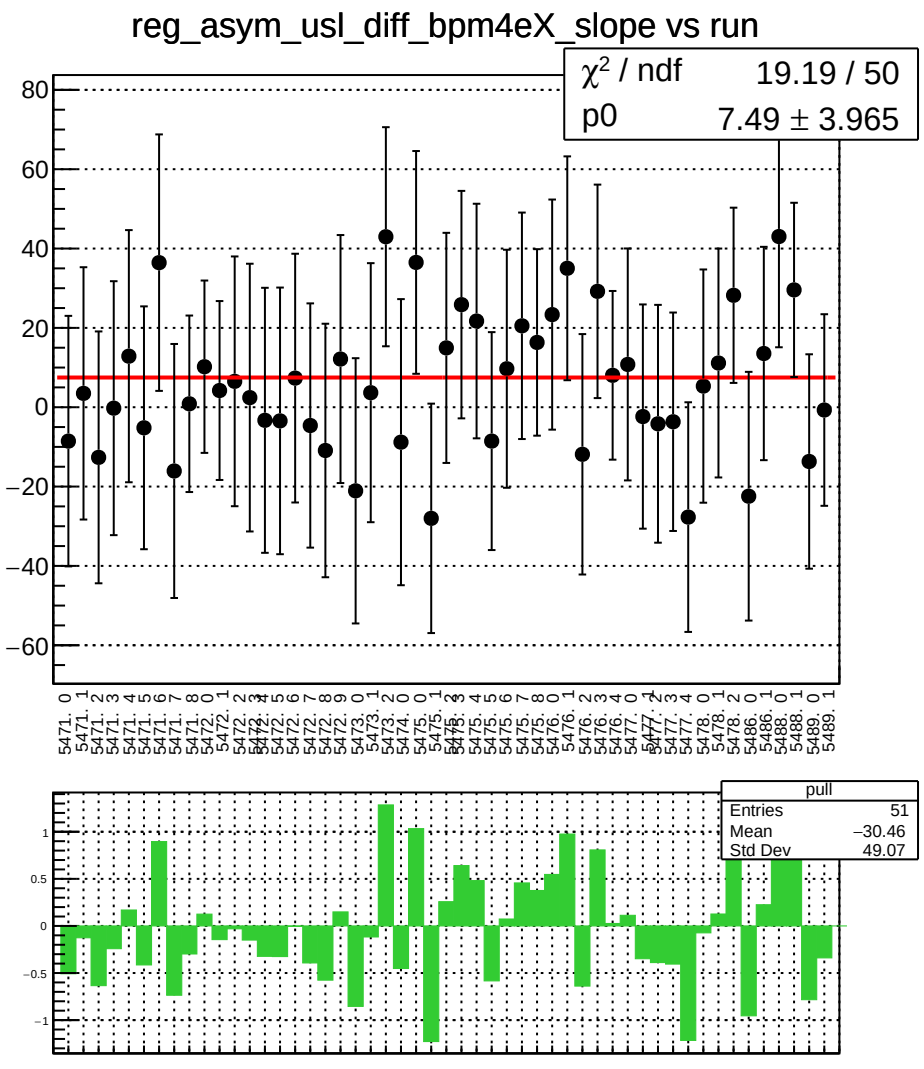

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 19.54 / 50
p0 −0.3544 ± 0.01653
pull
Entries 51
Mean 48.1
Std Dev 28.15

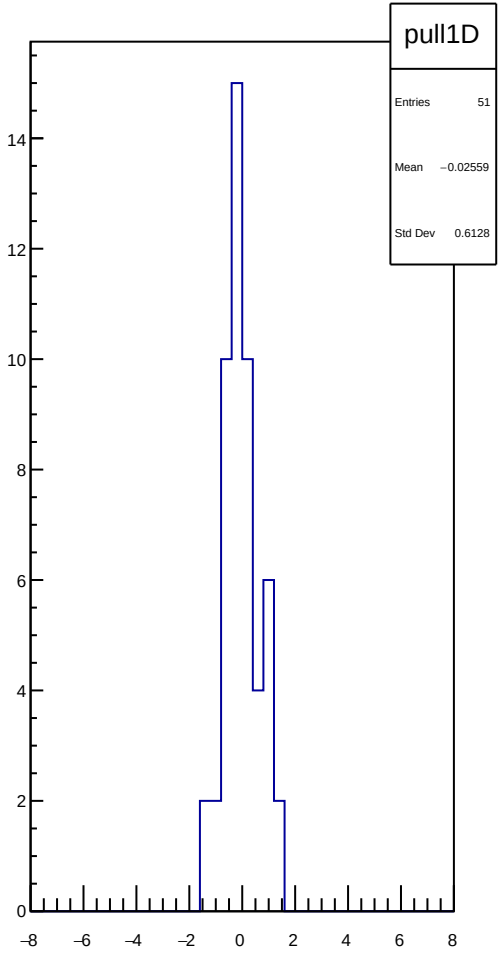

pull1D
Entries 51
Mean −0.03264
Std Dev 0.6182

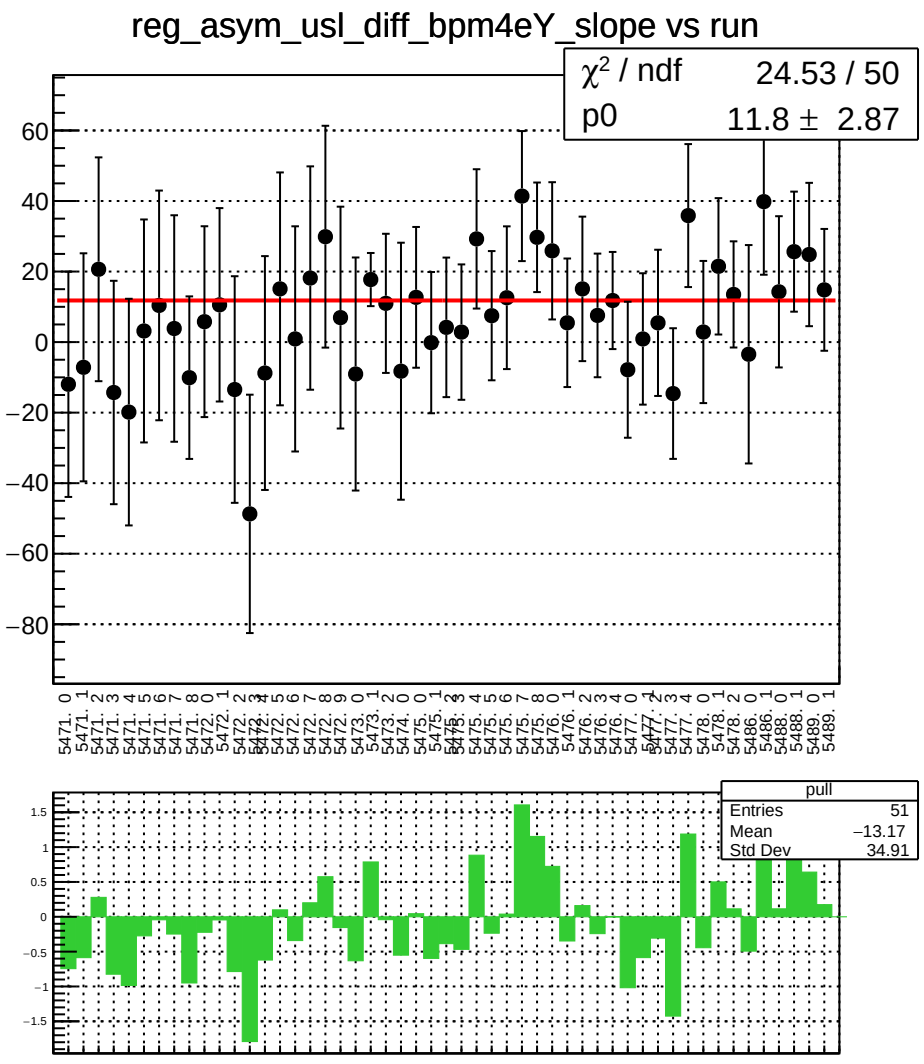

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 18.73 / 50
p0 −52.54 ± 4.095
pull
Entries 51
Mean −26.42
Std Dev 44.57

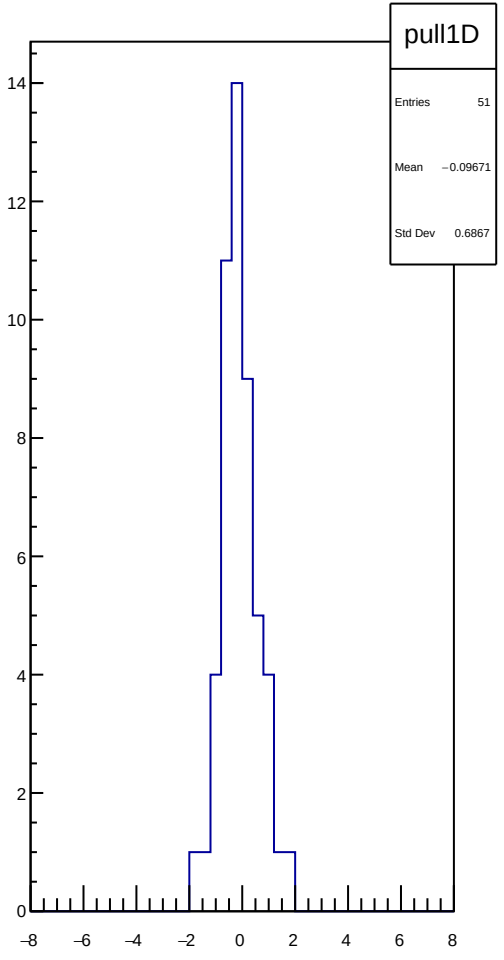

pull1D
Entries 51
Mean 0.0246
Std Dev 0.6055

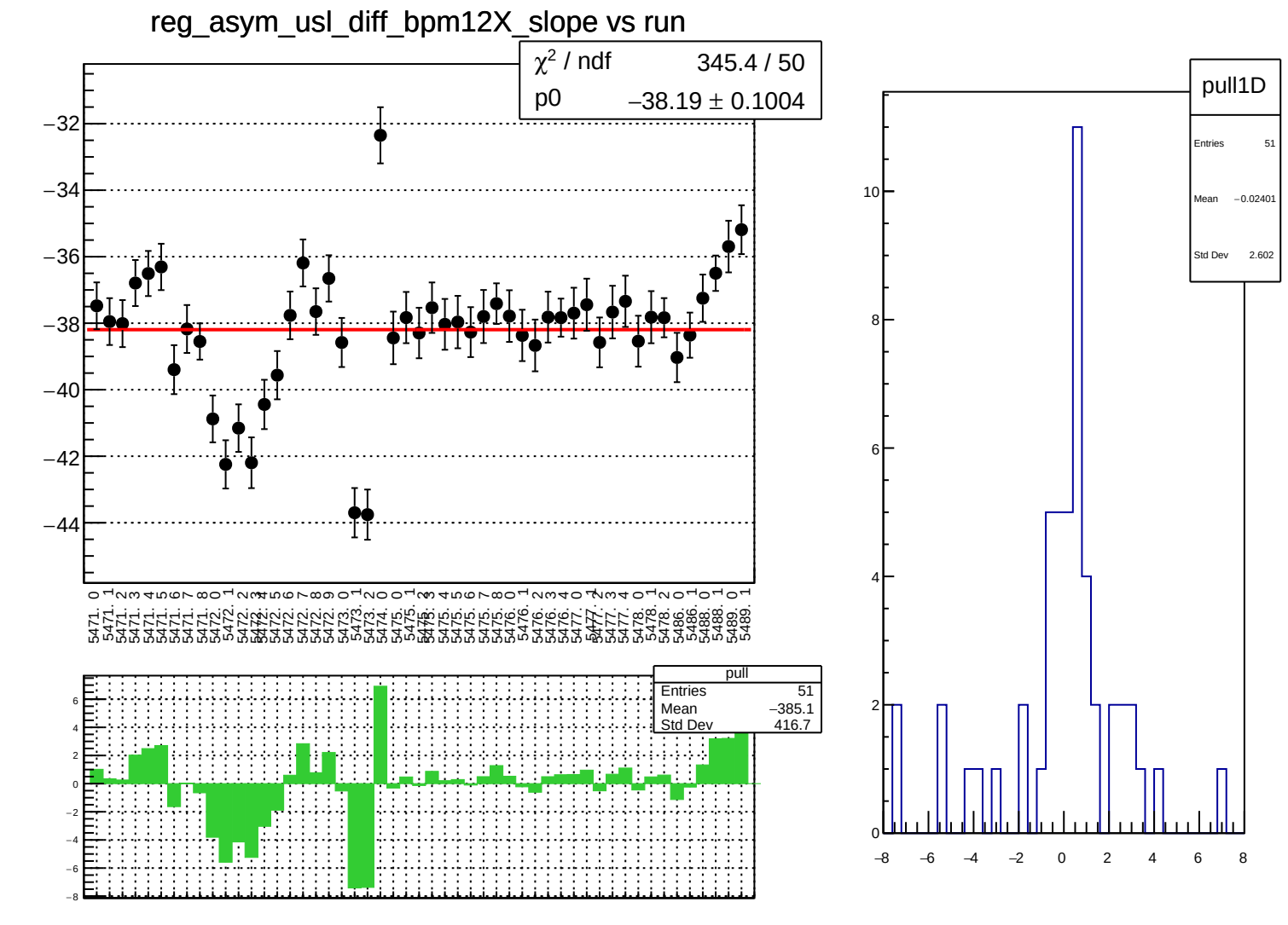

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 24.61 / 50
p0 6.123 ± 2.28
pull
Entries 51
Mean −14.27
Std Dev 36.14
pull1D
Entries 51
Mean 0.1019
Std Dev 0.6872

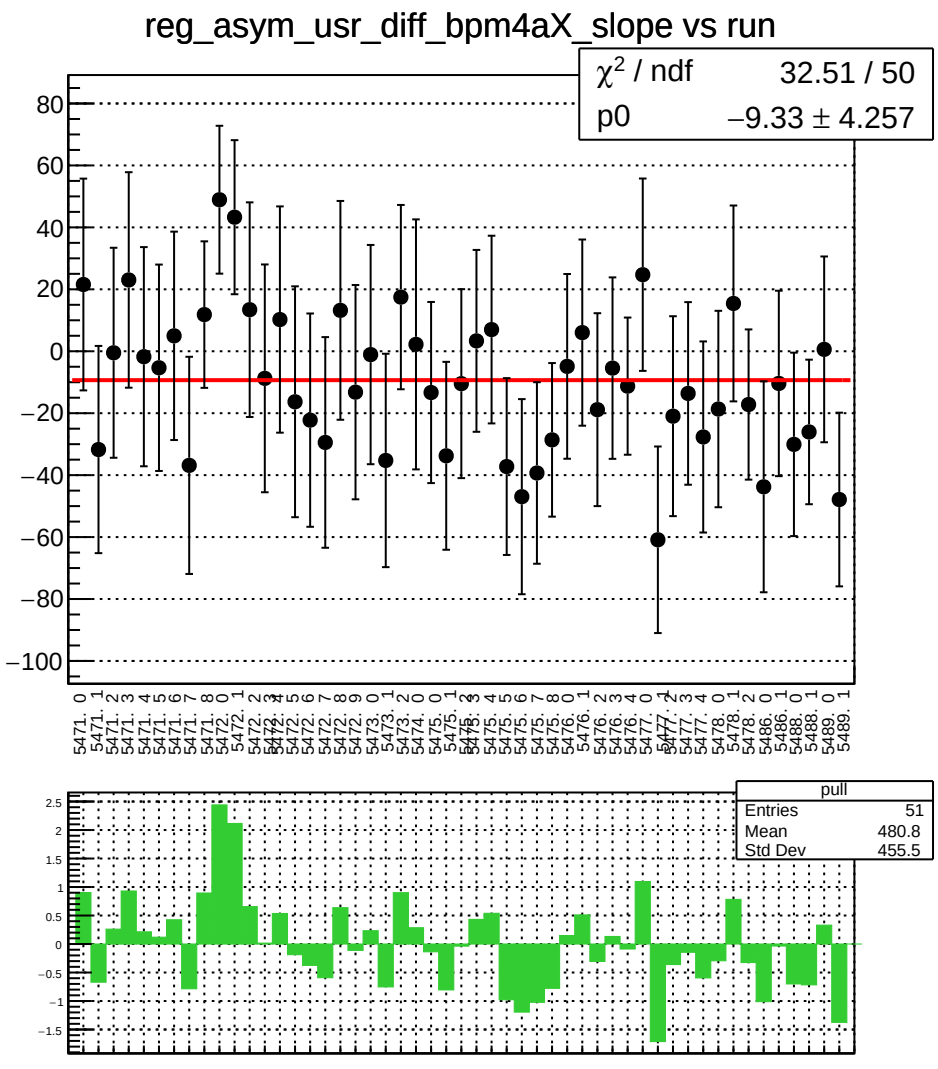

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 19.19 / 50
p0 7.49 ± 3.965
pull
Entries 51
Mean −30.46
Std Dev 49.07

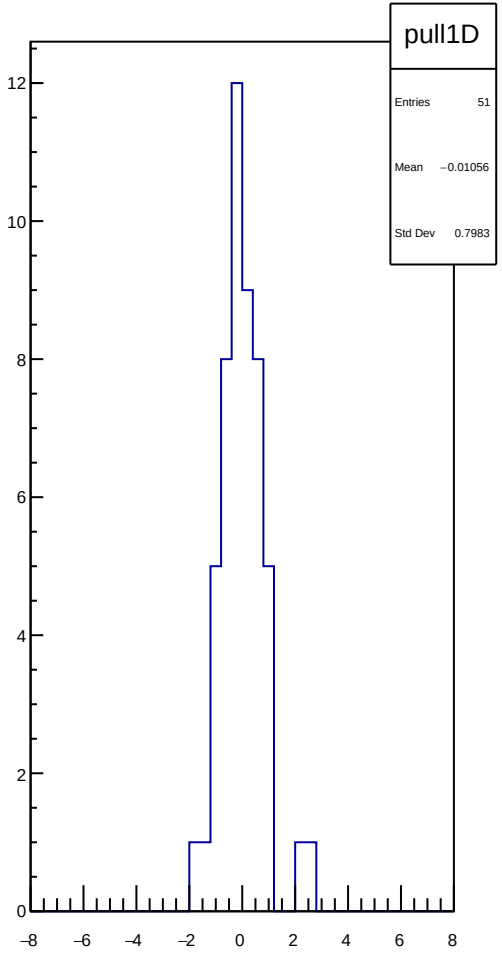

pull1D
Entries 51
Mean −0.02559
Std Dev 0.6128

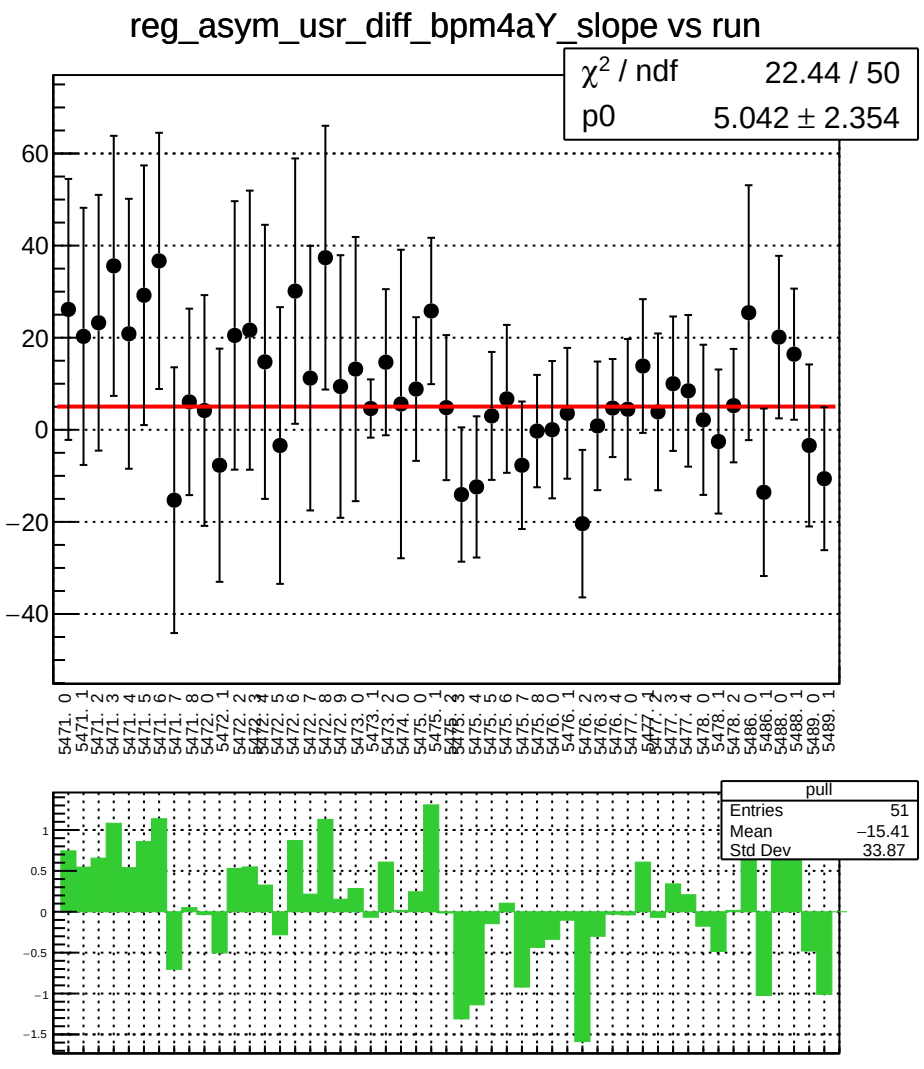

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 24.53 / 50
p0 11.8 ± 2.87
pull
Entries 51
Mean −13.17
Std Dev 34.91

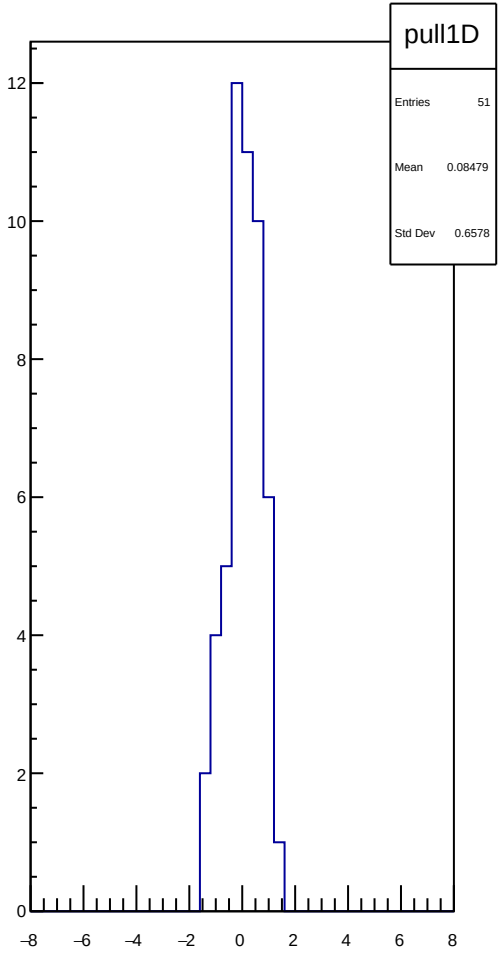

pull1D
Entries 51
Mean −0.09671
Std Dev 0.6867

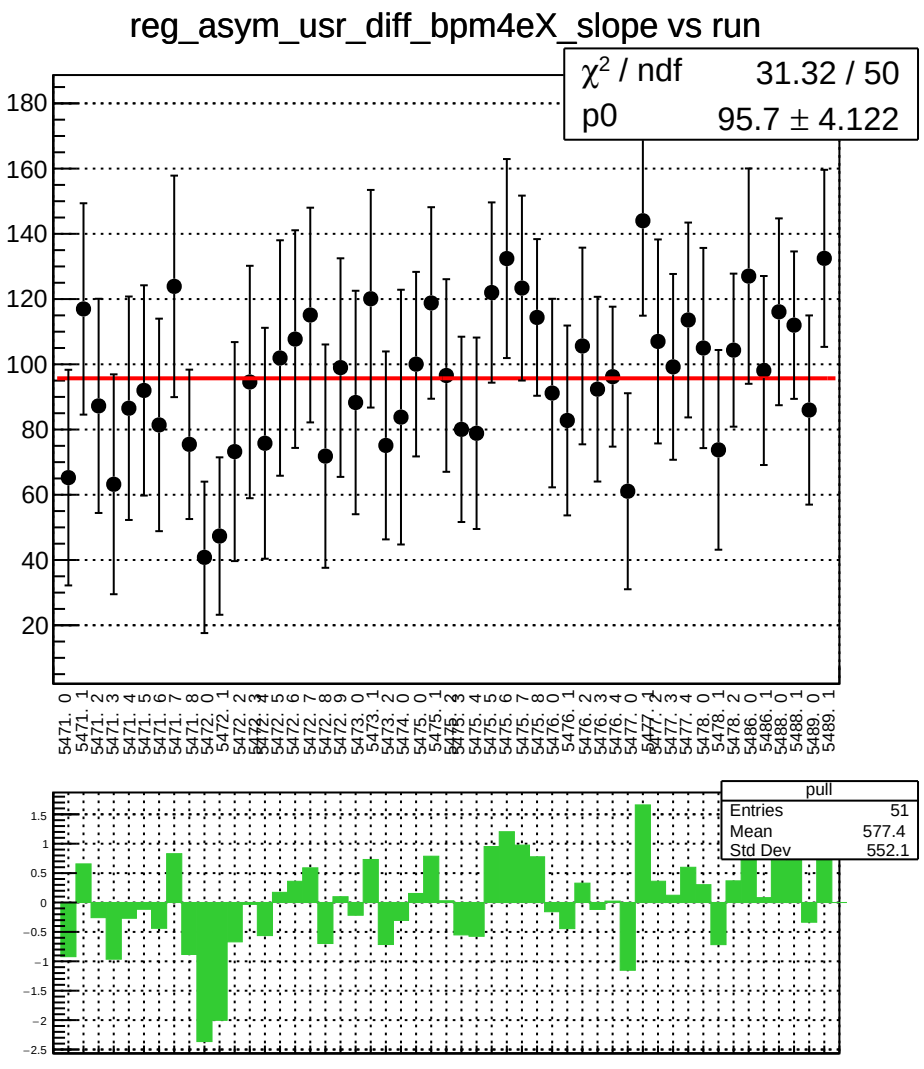

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 345.4 / 50
p0 −38.19 ± 0.1004
pull
Entries 51
Mean −385.1
Std Dev 416.7
pull1D
Entries 51
Mean −0.02401
Std Dev 2.602

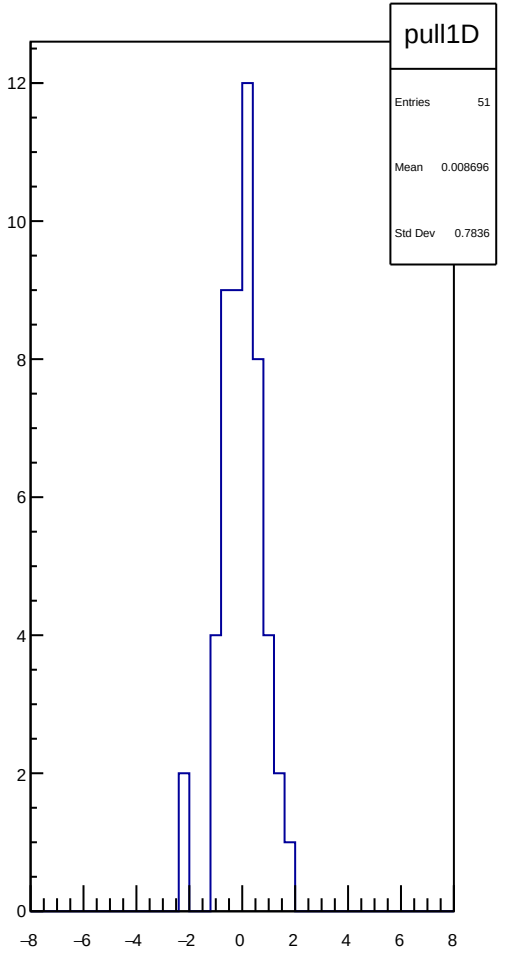

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 32.51 / 50
p0 −9.33 ± 4.257
pull
Entries 51
Mean 480.8
Std Dev 455.5

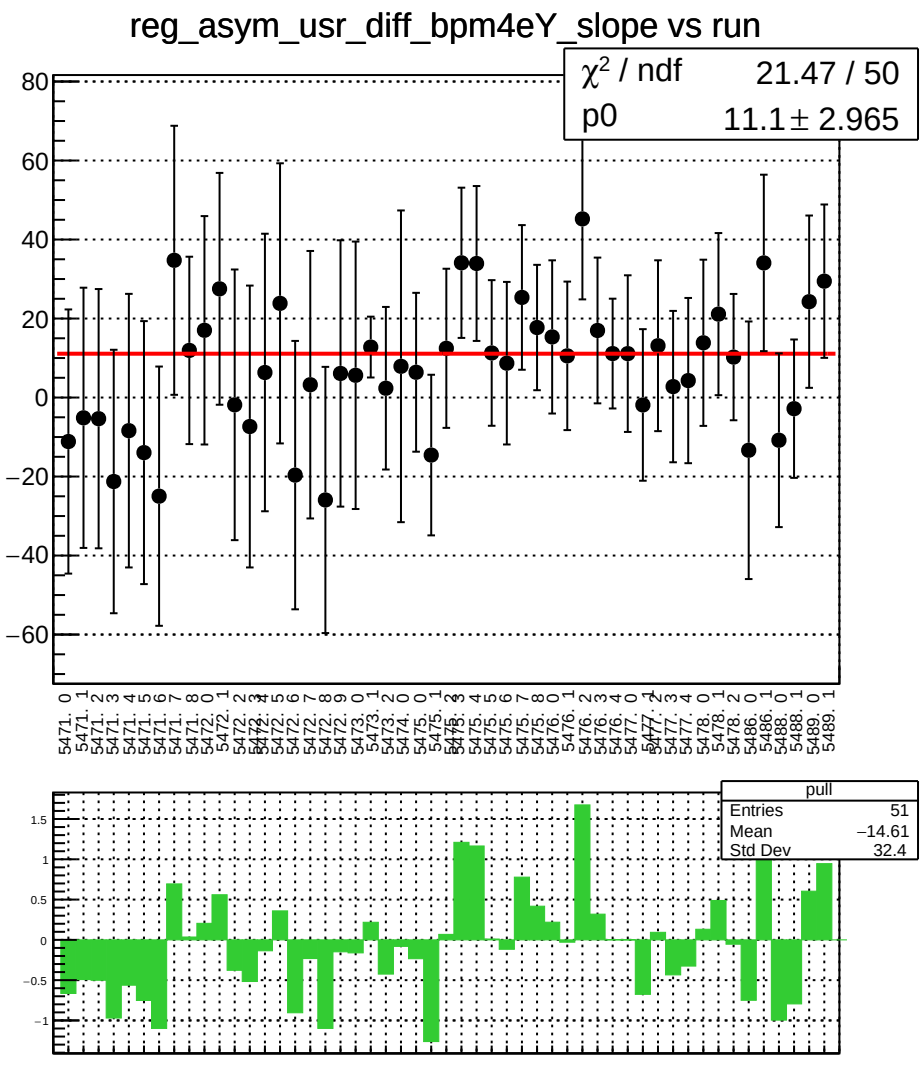

pull1D
Entries 51
Mean −0.01056
Std Dev 0.7983

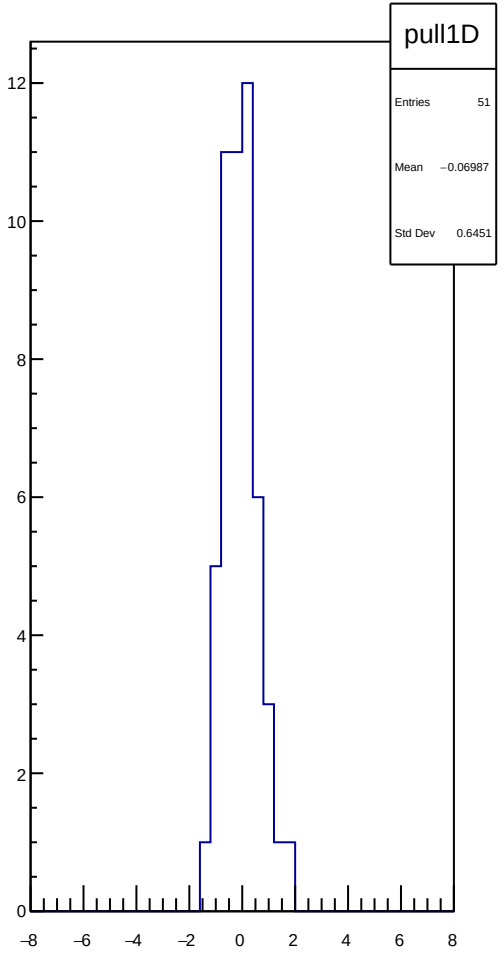

reg_asym_usr_diff_bpm4aY_slope vs run
χ^2 / ndf 22.44 / 50
p0 5.042 ± 2.354
60
40
20
0
−20
−40
pull
Entries 51
Mean −15.41
Std Dev 33.87
1
0.5
0
−0.5
−1
−1.5

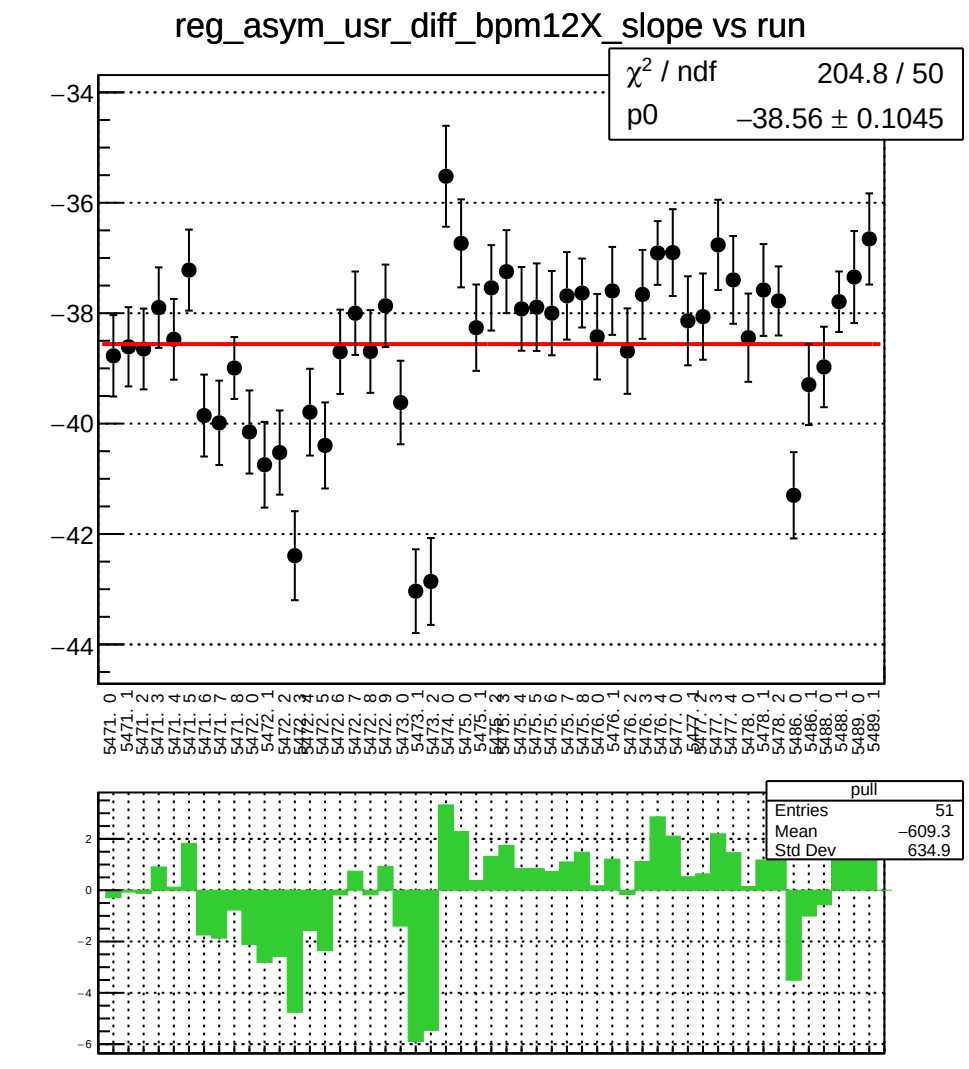

pull1D
Entries 51
Mean 0.08479
Std Dev 0.6578
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

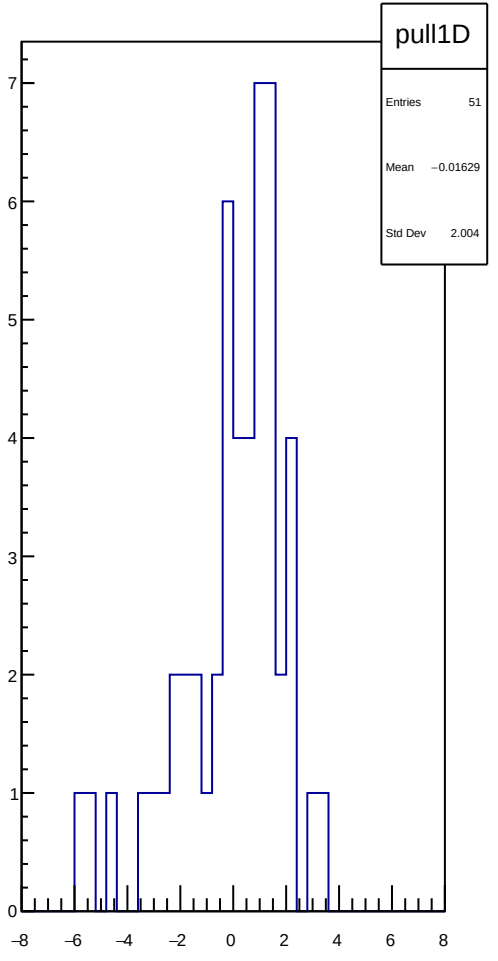

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 31.32 / 50
p0 95.7 ± 4.122
pull
Entries 51
Mean 577.4
Std Dev 552.1

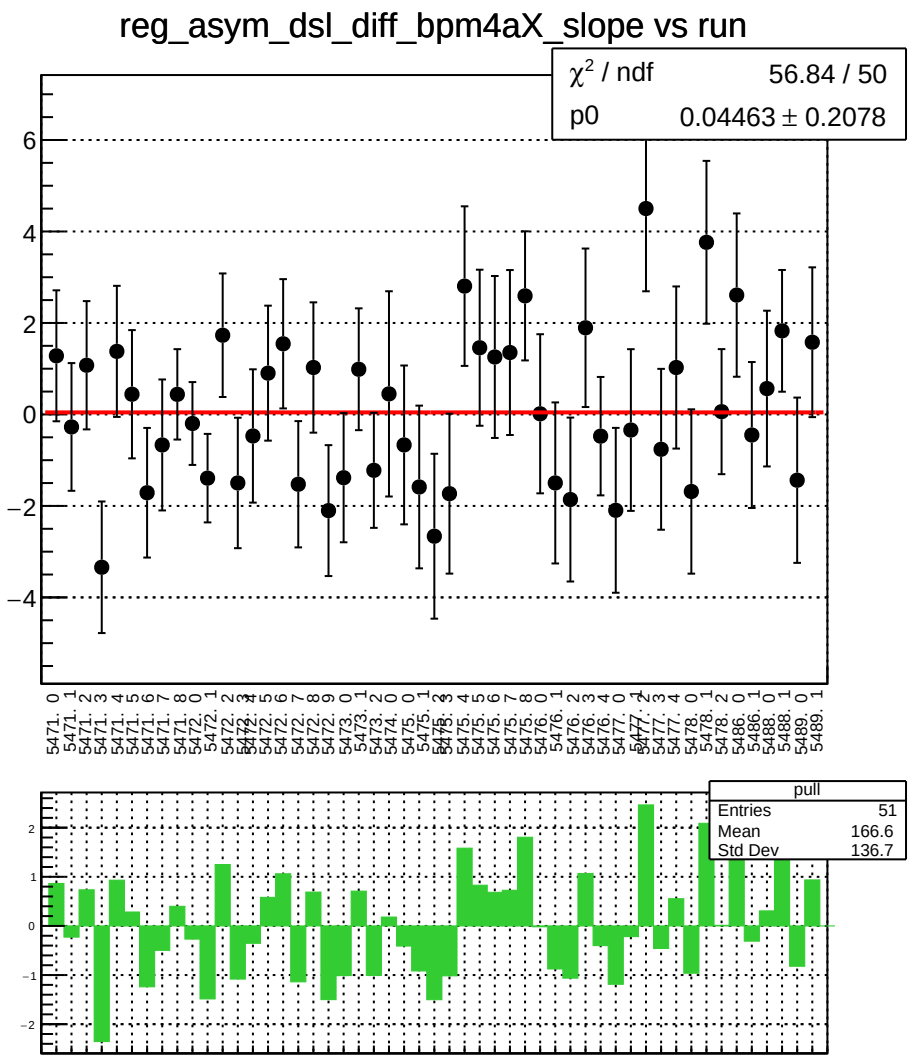

pull1D
Entries 51
Mean 0.008696
Std Dev 0.7836

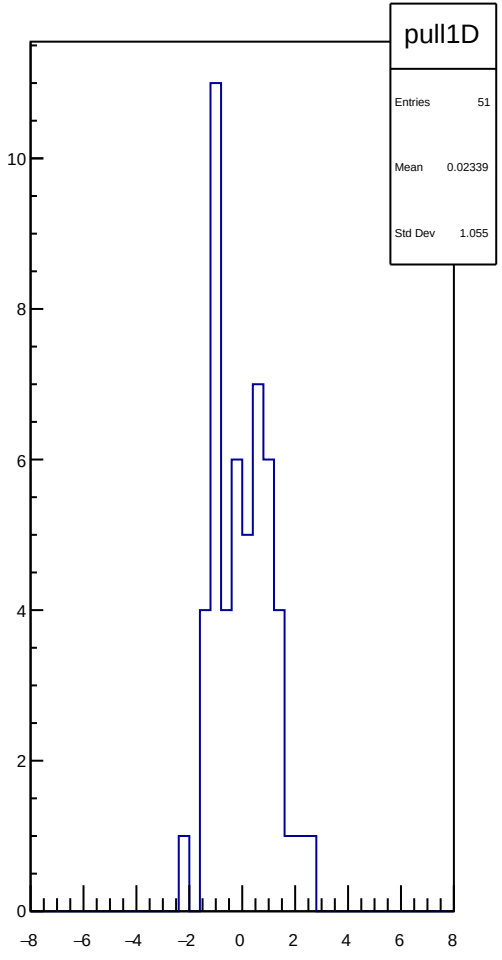

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 21.47 / 50
p0 11.1 ± 2.965
pull
Entries 51
Mean −14.61
Std Dev 32.4

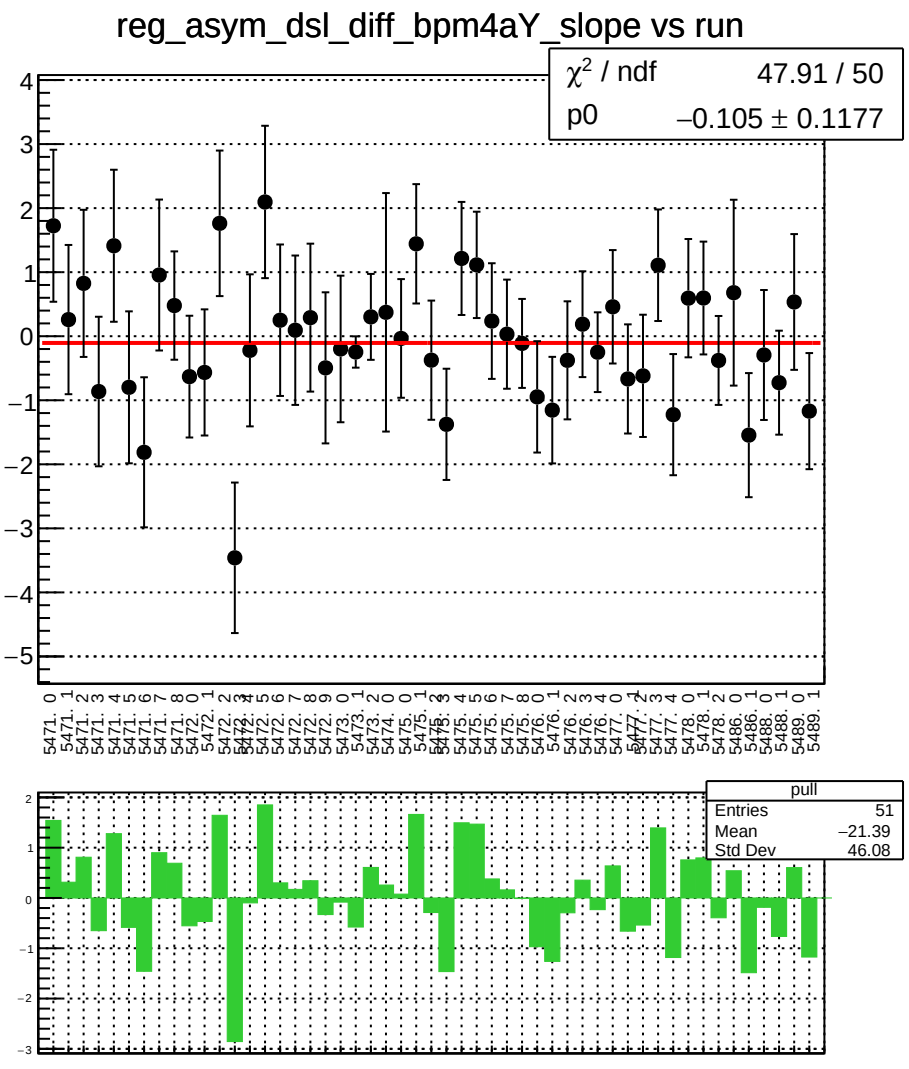

pull1D
Entries 51
Mean −0.06987
Std Dev 0.6451

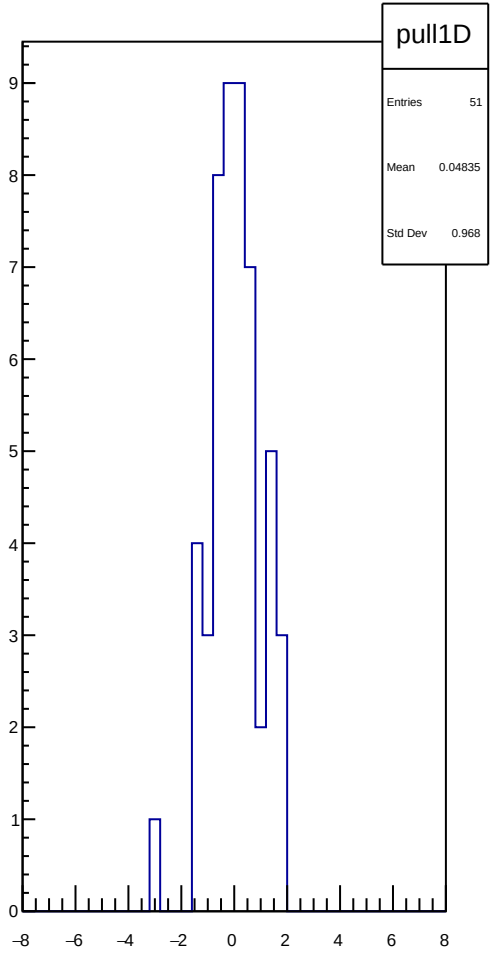

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 204.8 / 50
p0 −38.56 ± 0.1045
pull
Entries 51
Mean −609.3
Std Dev 634.9

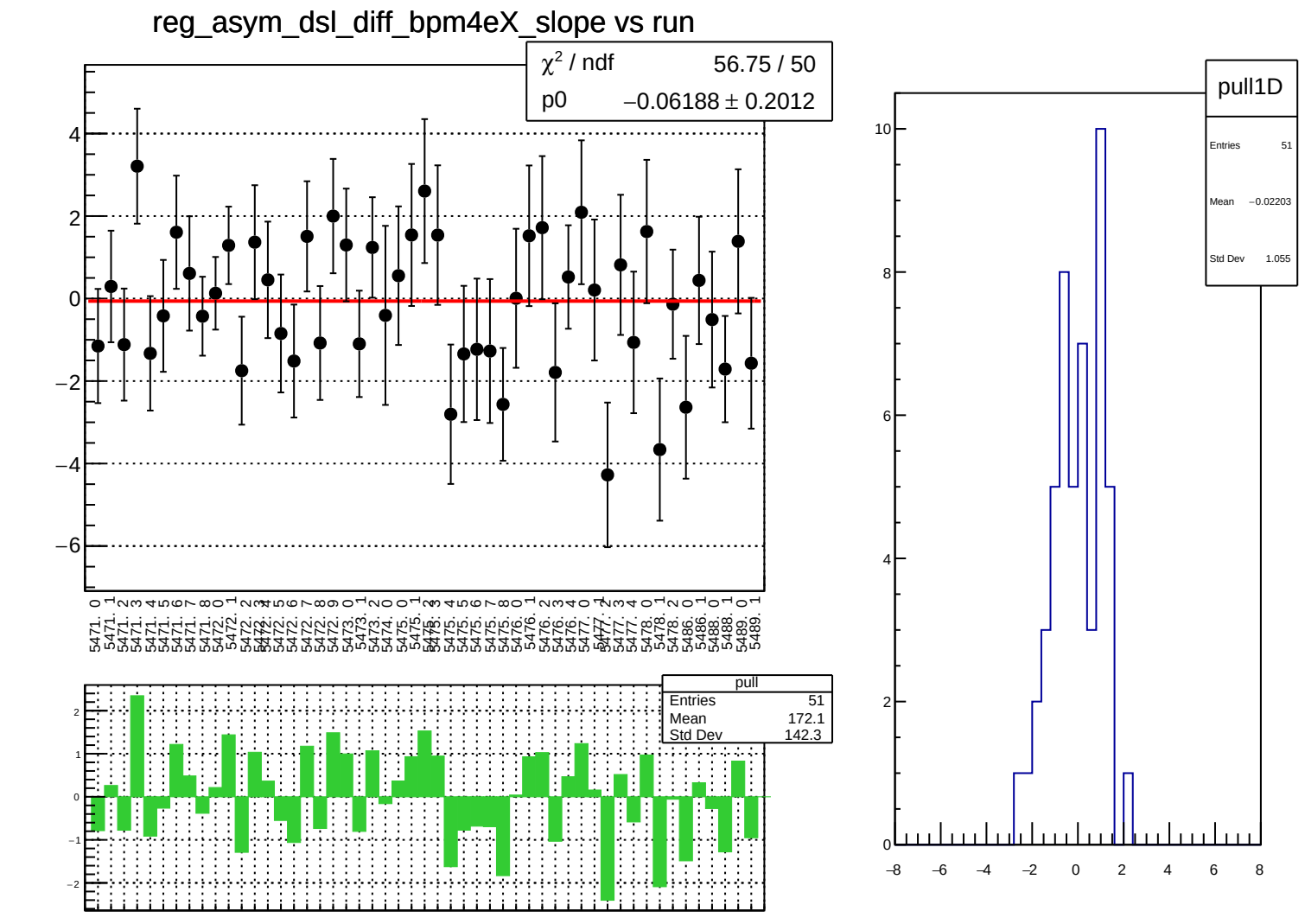

pull1D
Entries 51
Mean −0.01629
Std Dev 2.004

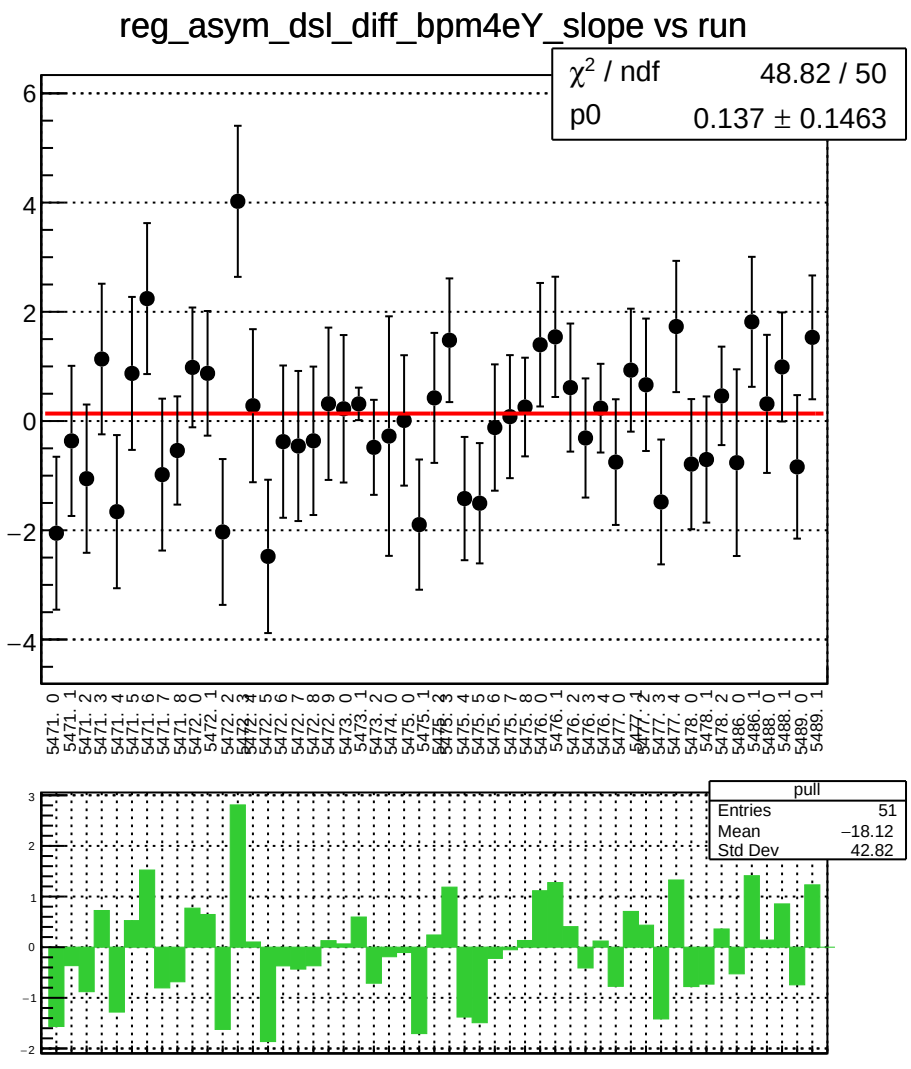

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 56.84 / 50
p0 0.04463 ± 0.2078
pull
Entries 51
Mean 166.6
Std Dev 136.7

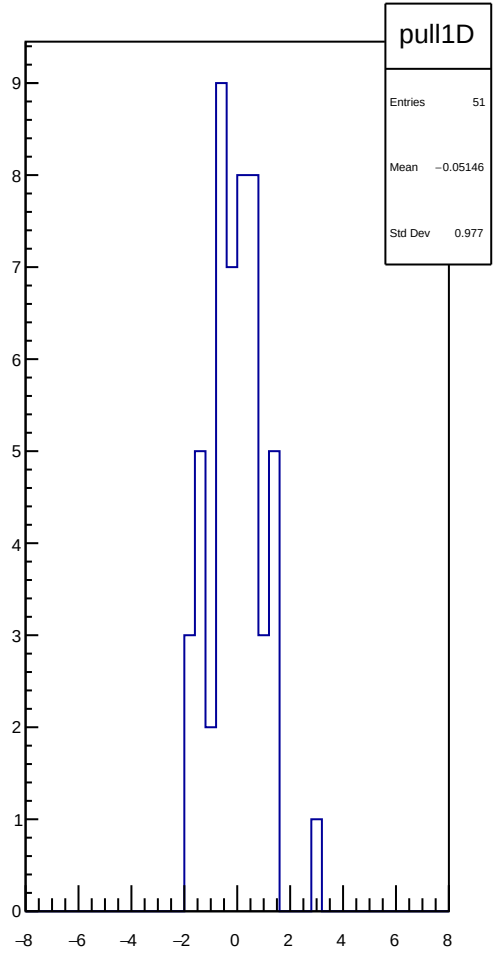

pull1D
Entries 51
Mean 0.02339
Std Dev 1.055

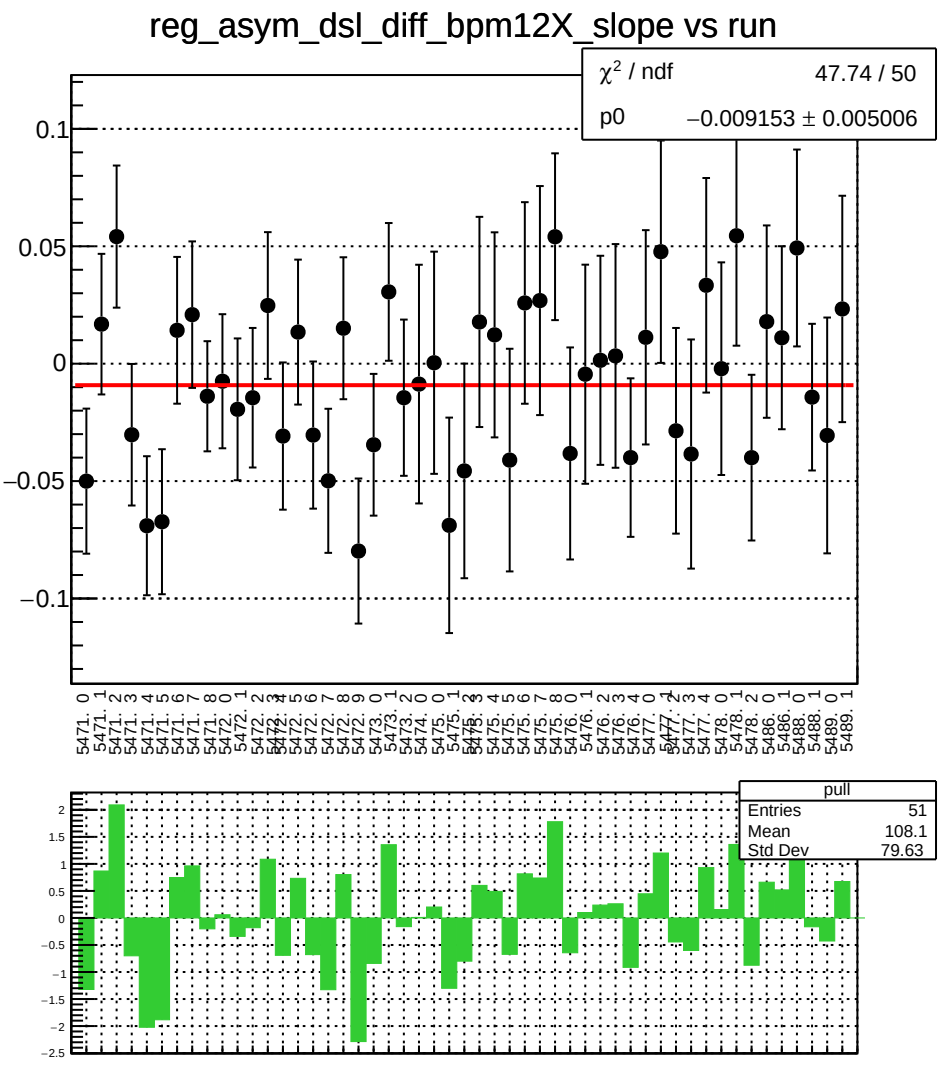

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 47.91 / 50
p0 −0.105 ± 0.1177
pull
Entries 51
Mean −21.39
Std Dev 46.08

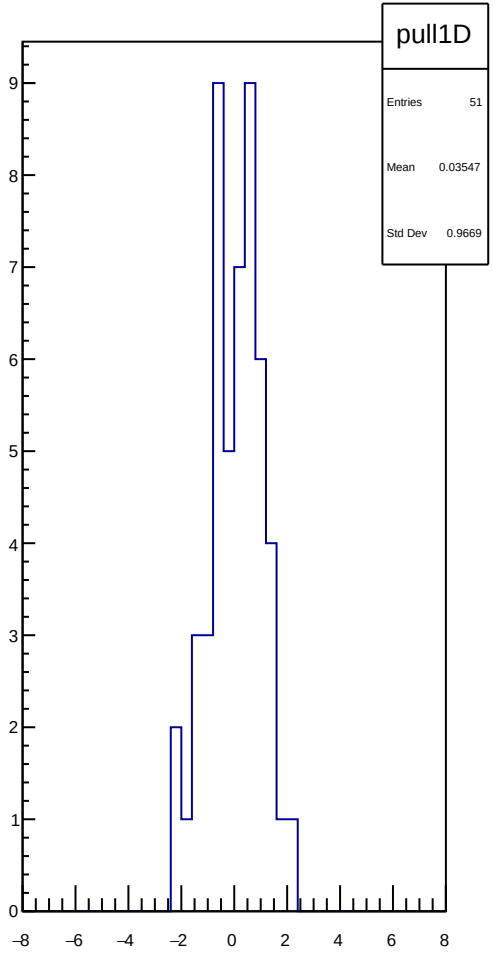

pull1D
Entries 51
Mean 0.04835
Std Dev 0.968

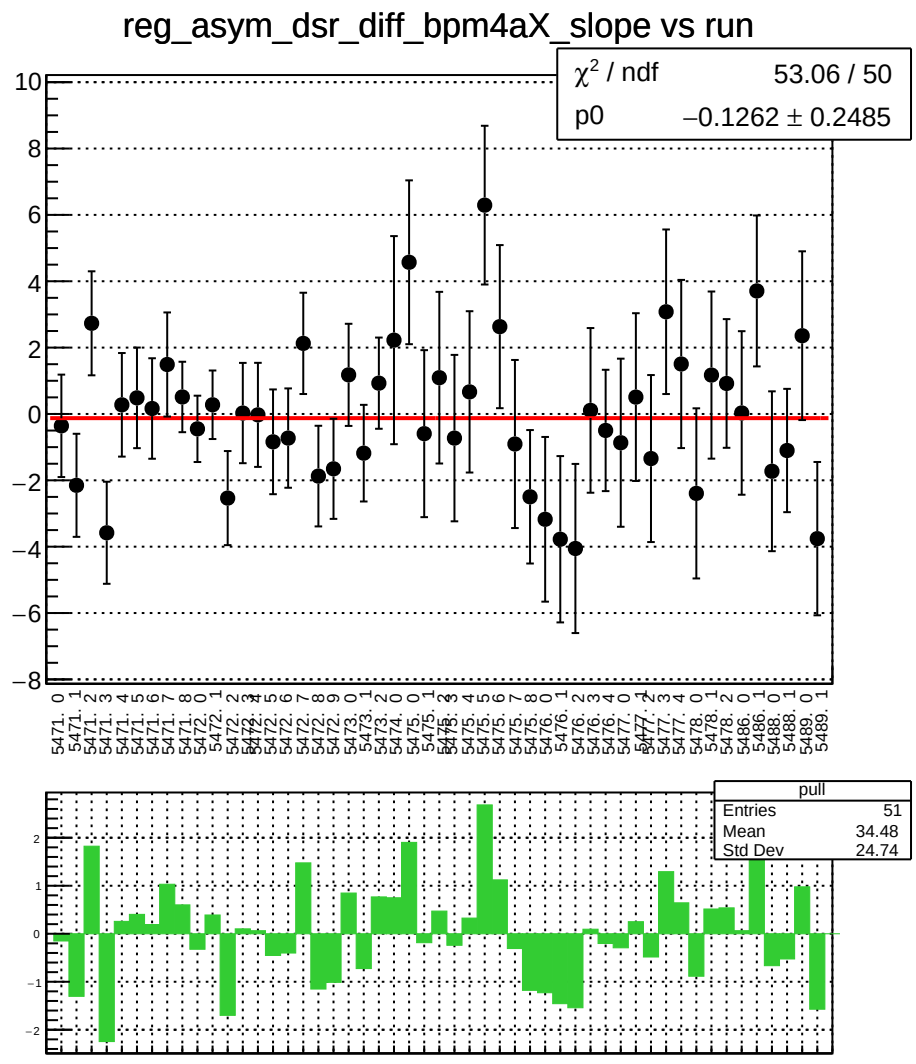

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 56.75 / 50
p0 −0.06188 ± 0.2012
pull
Entries 51
Mean 172.1
Std Dev 142.3
pull1D
Entries 51
Mean −0.02203
Std Dev 1.055

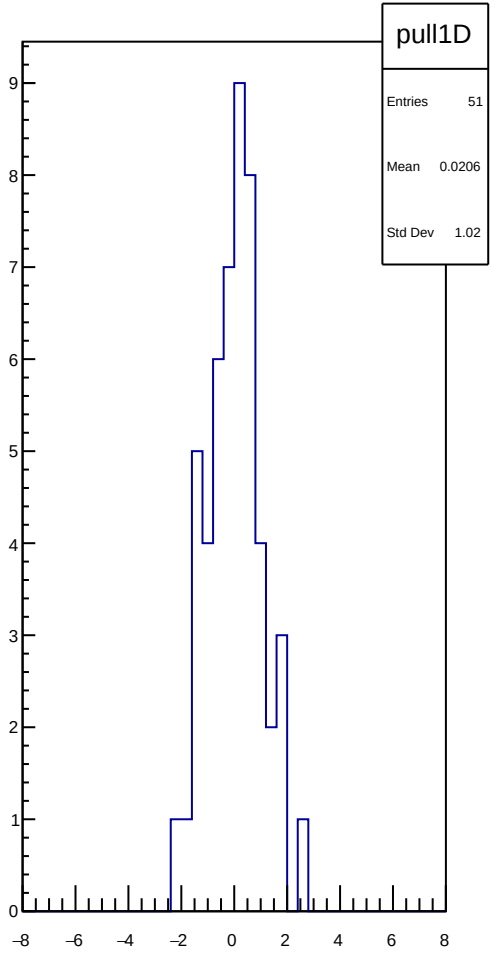

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 48.82 / 50
p0 0.137 ± 0.1463
pull
Entries 51
Mean −18.12
Std Dev 42.82

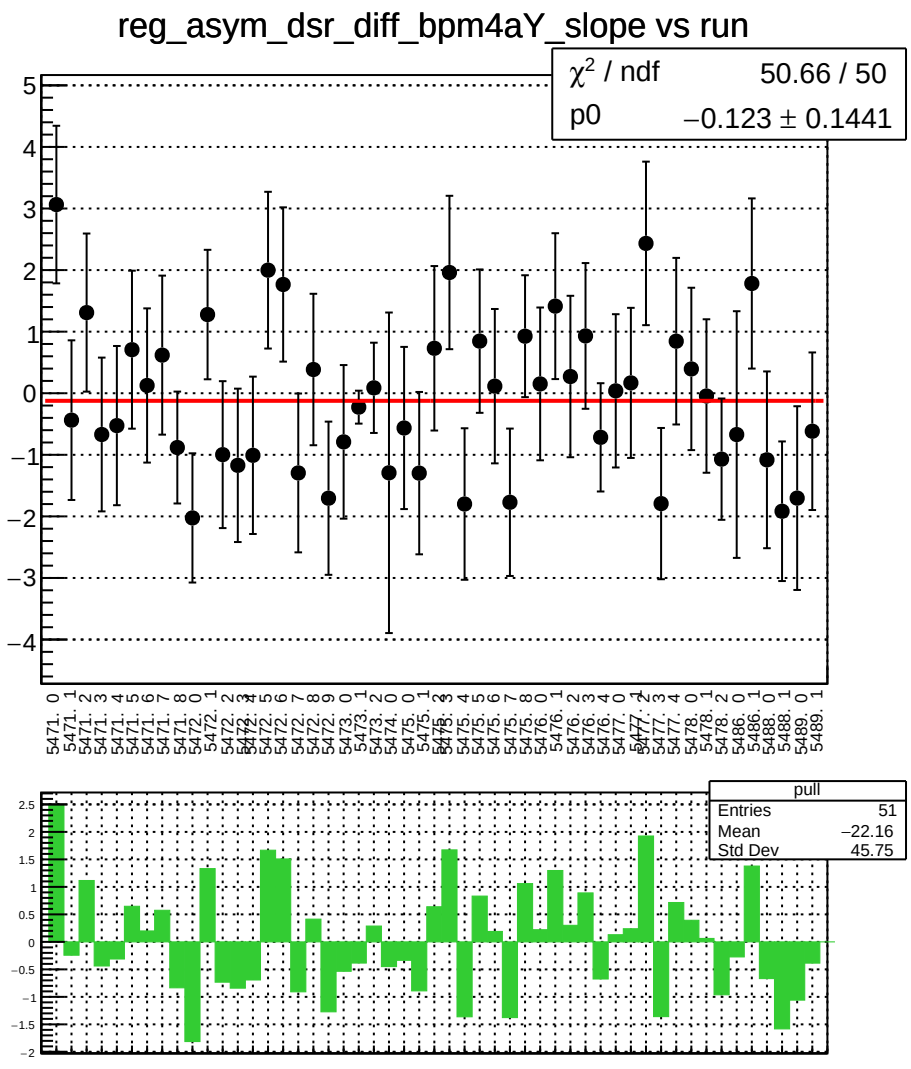

pull1D
Entries 51
Mean −0.05146
Std Dev 0.977

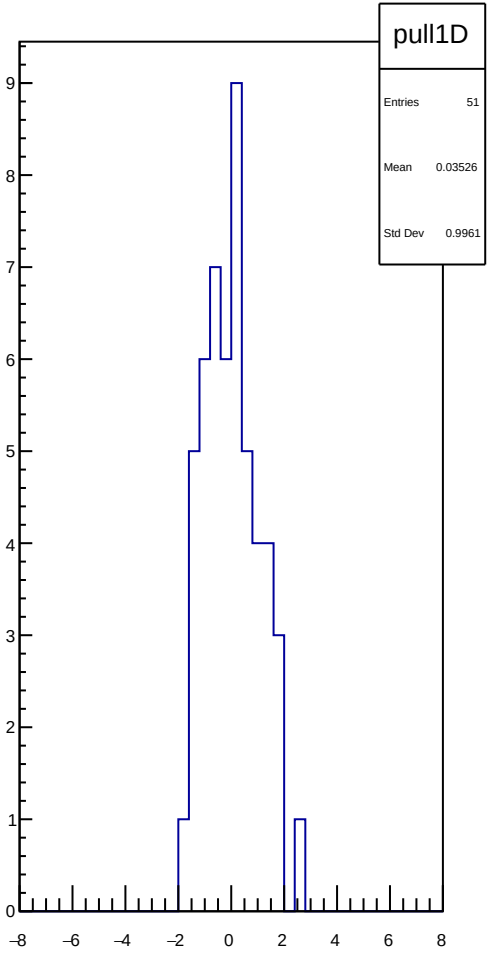

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 47.74 / 50
p0 −0.009153 ± 0.005006
pull
Entries 51
Mean 108.1
Std Dev 79.63

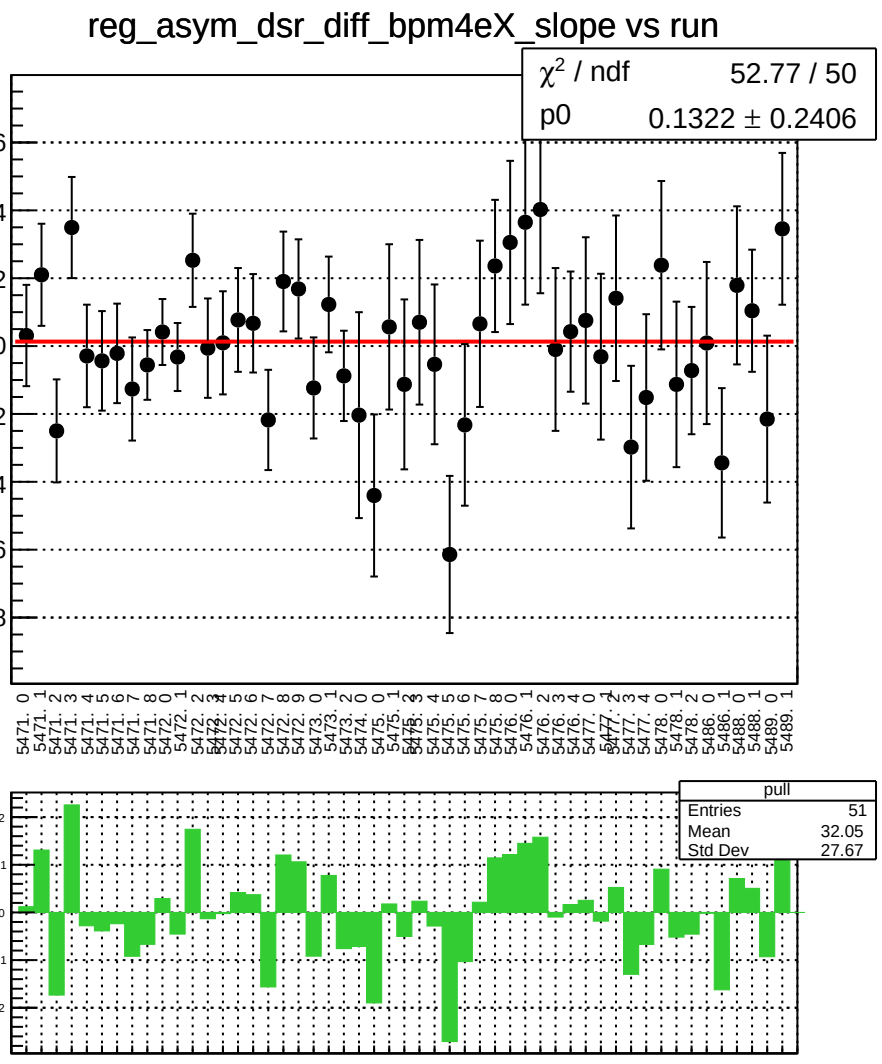

pull1D
Entries 51
Mean 0.03547
Std Dev 0.9669

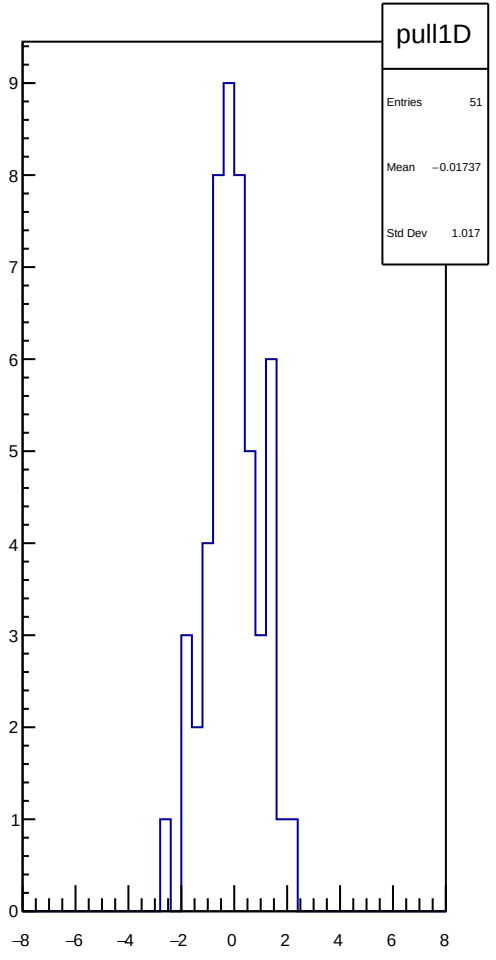

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 53.06 / 50
p0 −0.1262 ± 0.2485
pull
Entries 51
Mean 34.48
Std Dev 24.74

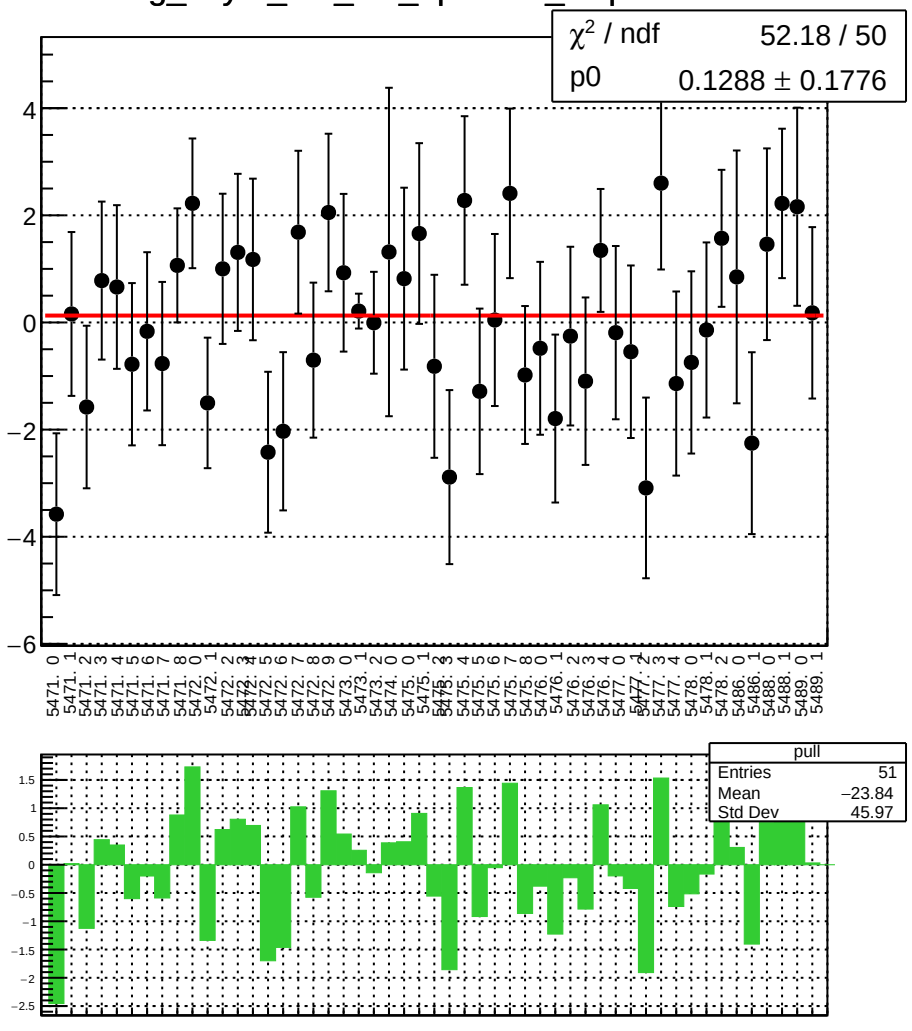

pull1D
Entries 51
Mean 0.0206
Std Dev 1.02

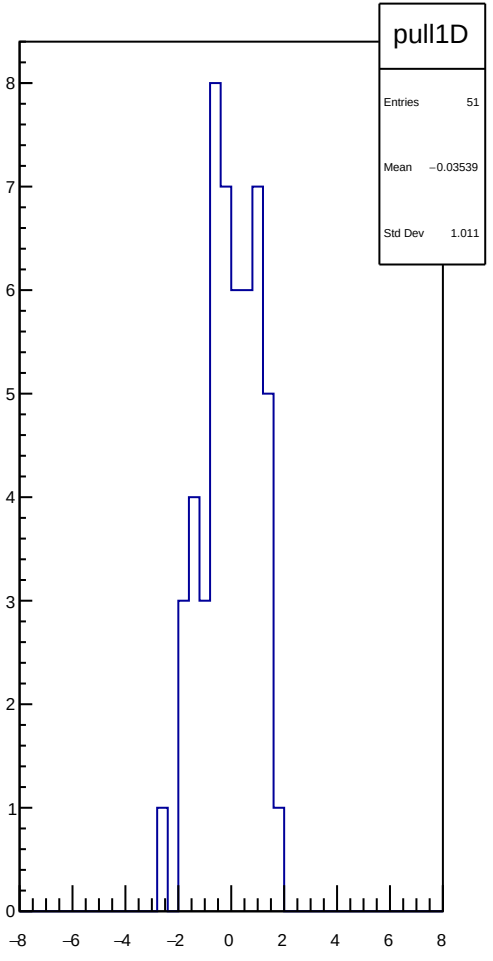

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 50.66 / 50
p0 −0.123 ± 0.1441
pull
Entries 51
Mean −22.16
Std Dev 45.75

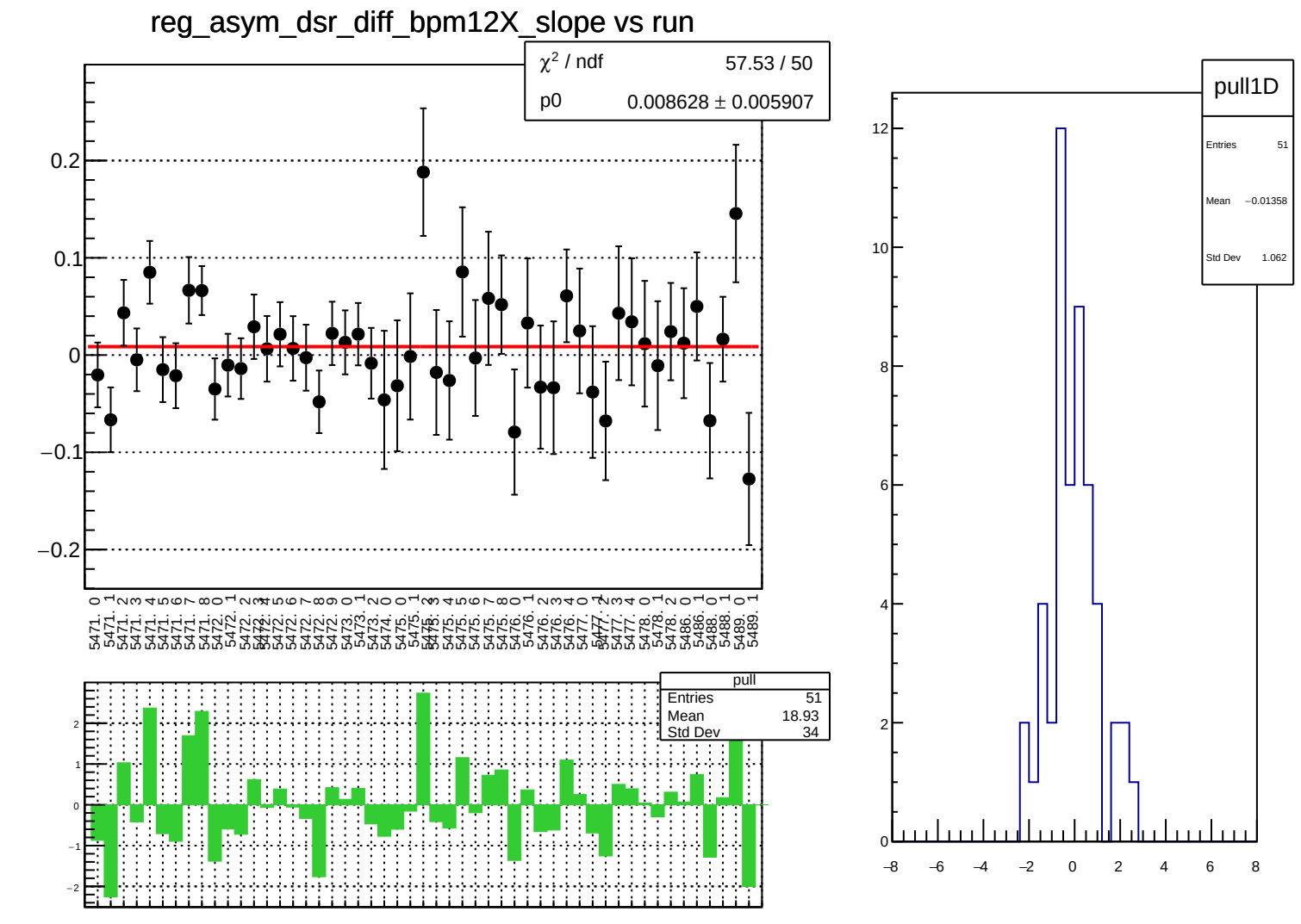

pull1D
Entries 51
Mean 0.03526
Std Dev 0.9961

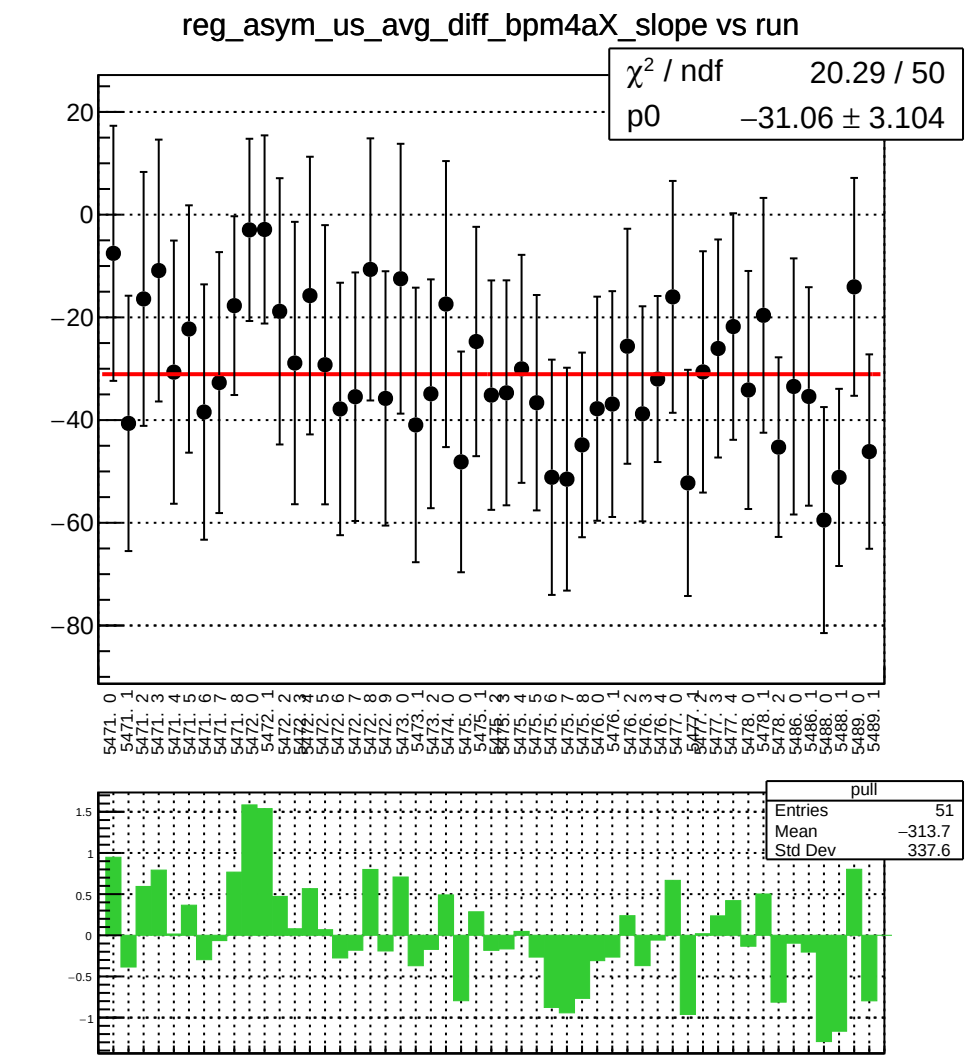

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 52.77 / 50
p0 0.1322 ± 0.2406
pull
Entries 51
Mean 32.05
Std Dev 27.67

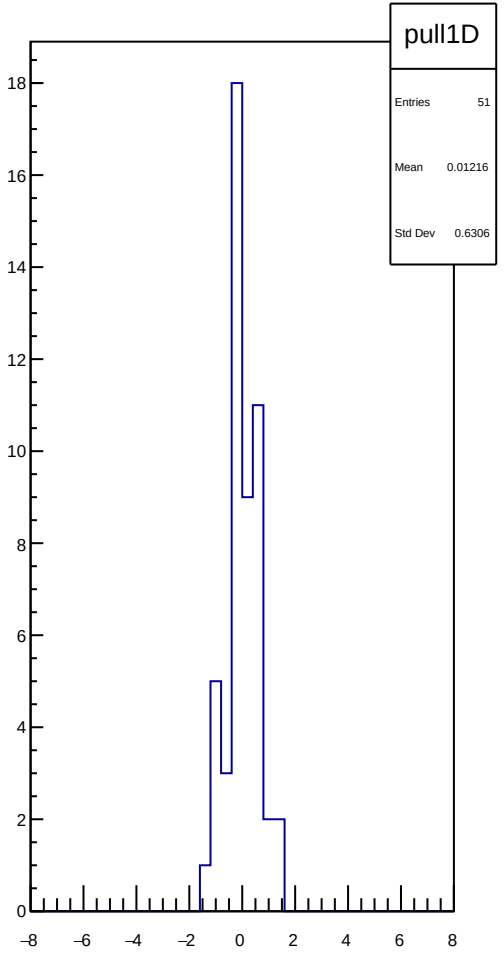

pull1D
Entries 51
Mean −0.01737
Std Dev 1.017

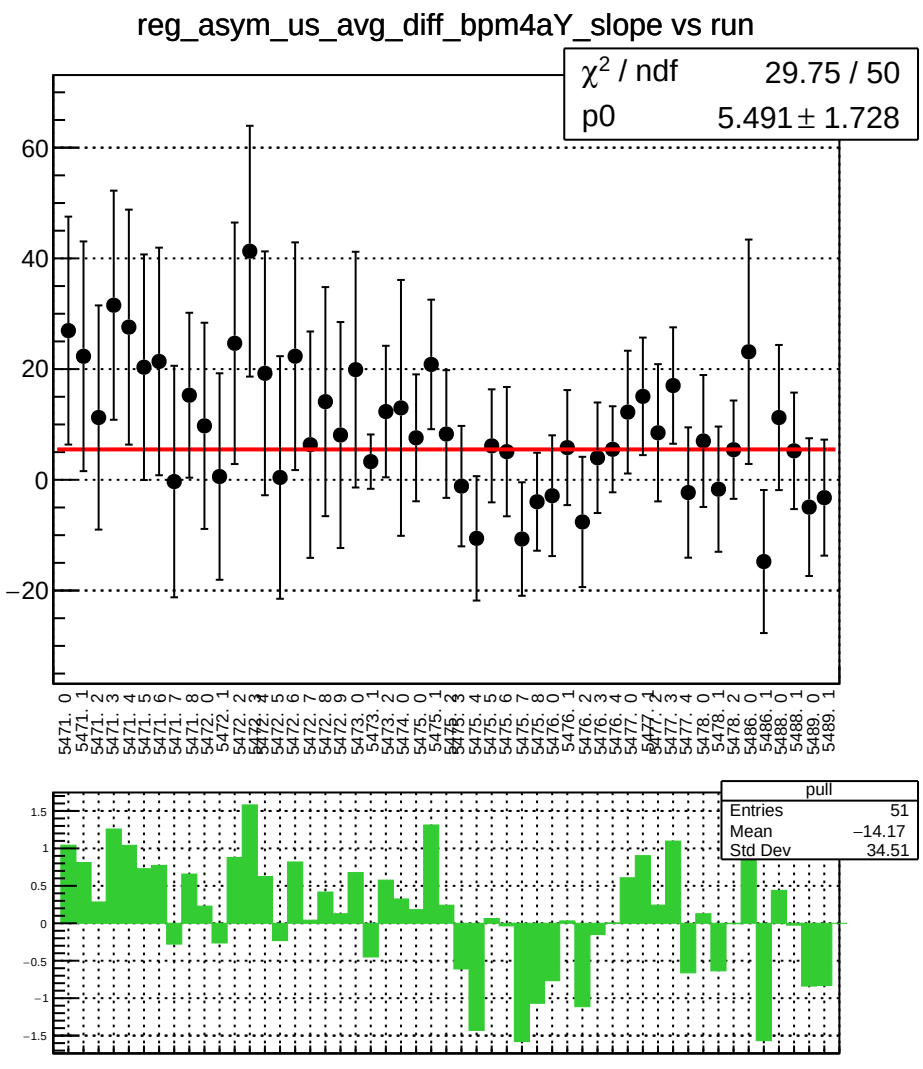

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 52.18 / 50
p0 0.1288 ± 0.1776
pull
Entries 51
Mean −23.84
Std Dev 45.97

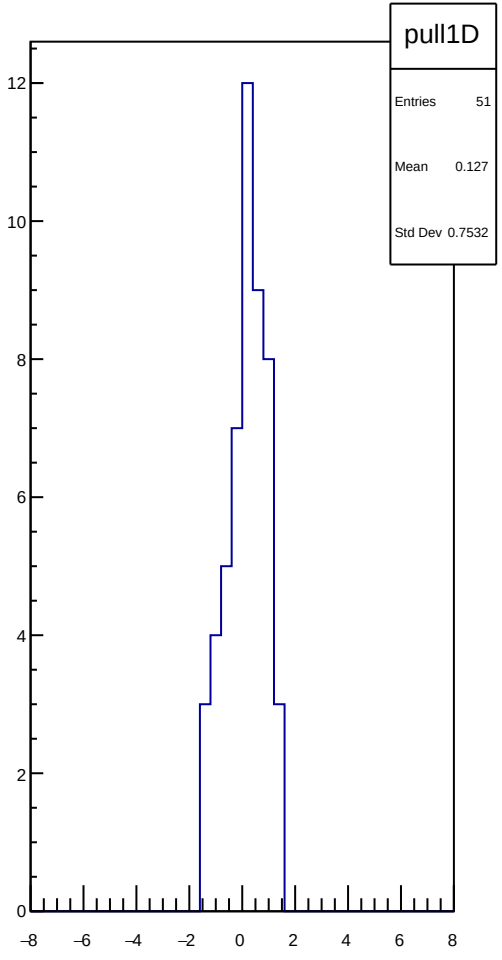

pull1D
Entries 51
Mean −0.03539
Std Dev 1.011

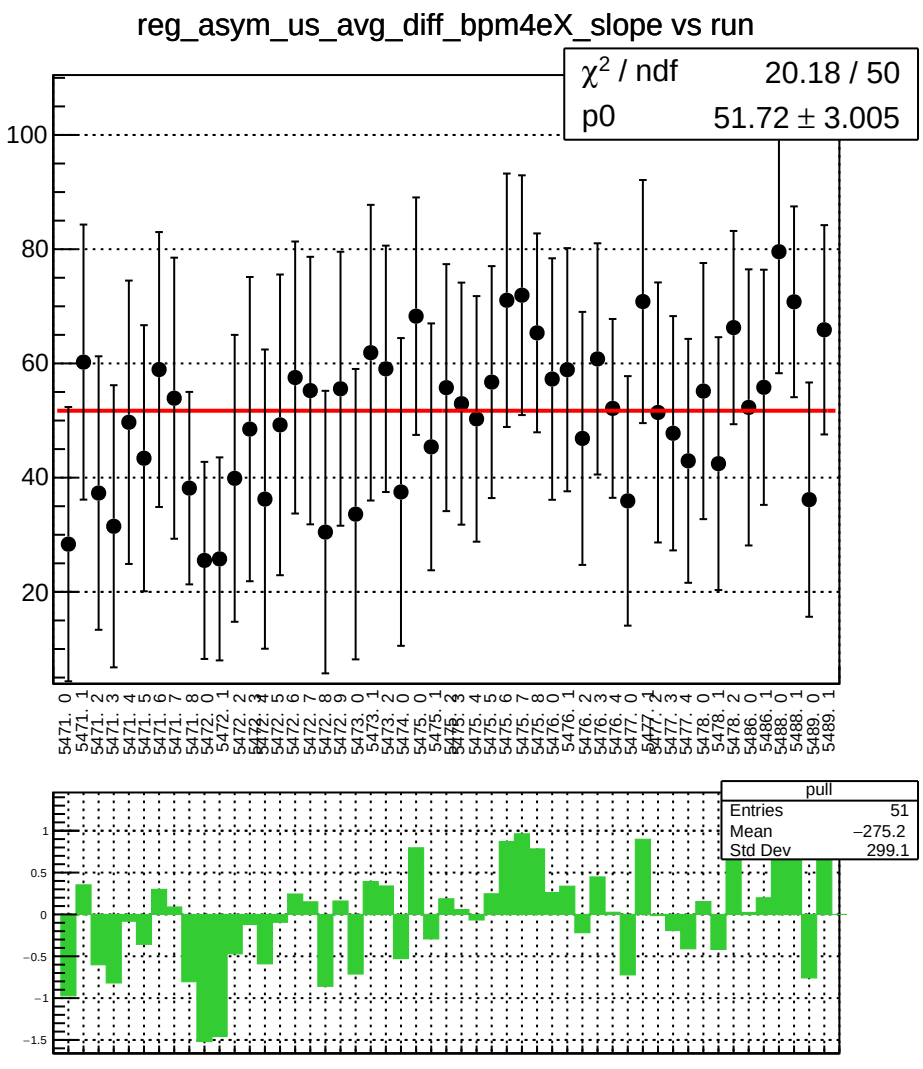

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 57.53 / 50
p0 0.008628 ± 0.005907
pull
Entries 51
Mean 18.93
Std Dev 34
pull1D
Entries 51
Mean −0.01358
Std Dev 1.062

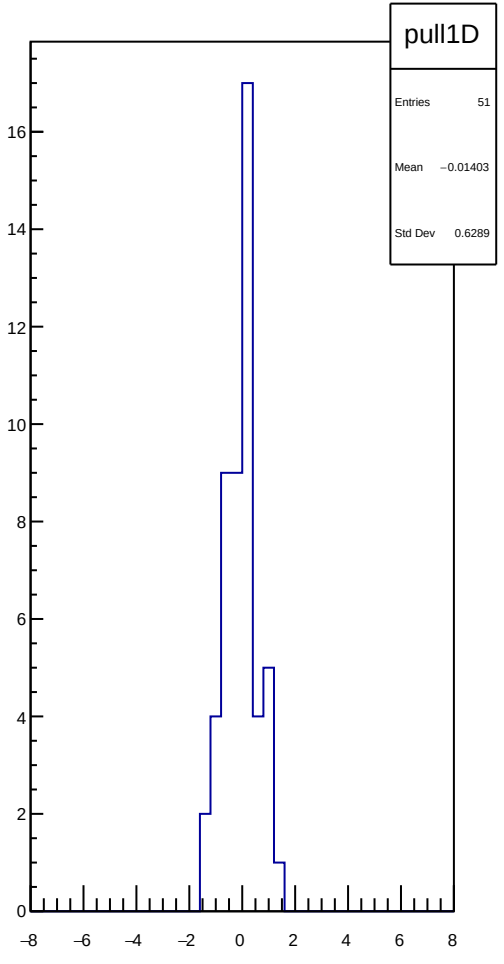

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 20.29 / 50
p0 −31.06 ± 3.104
pull
Entries 51
Mean −313.7
Std Dev 337.6

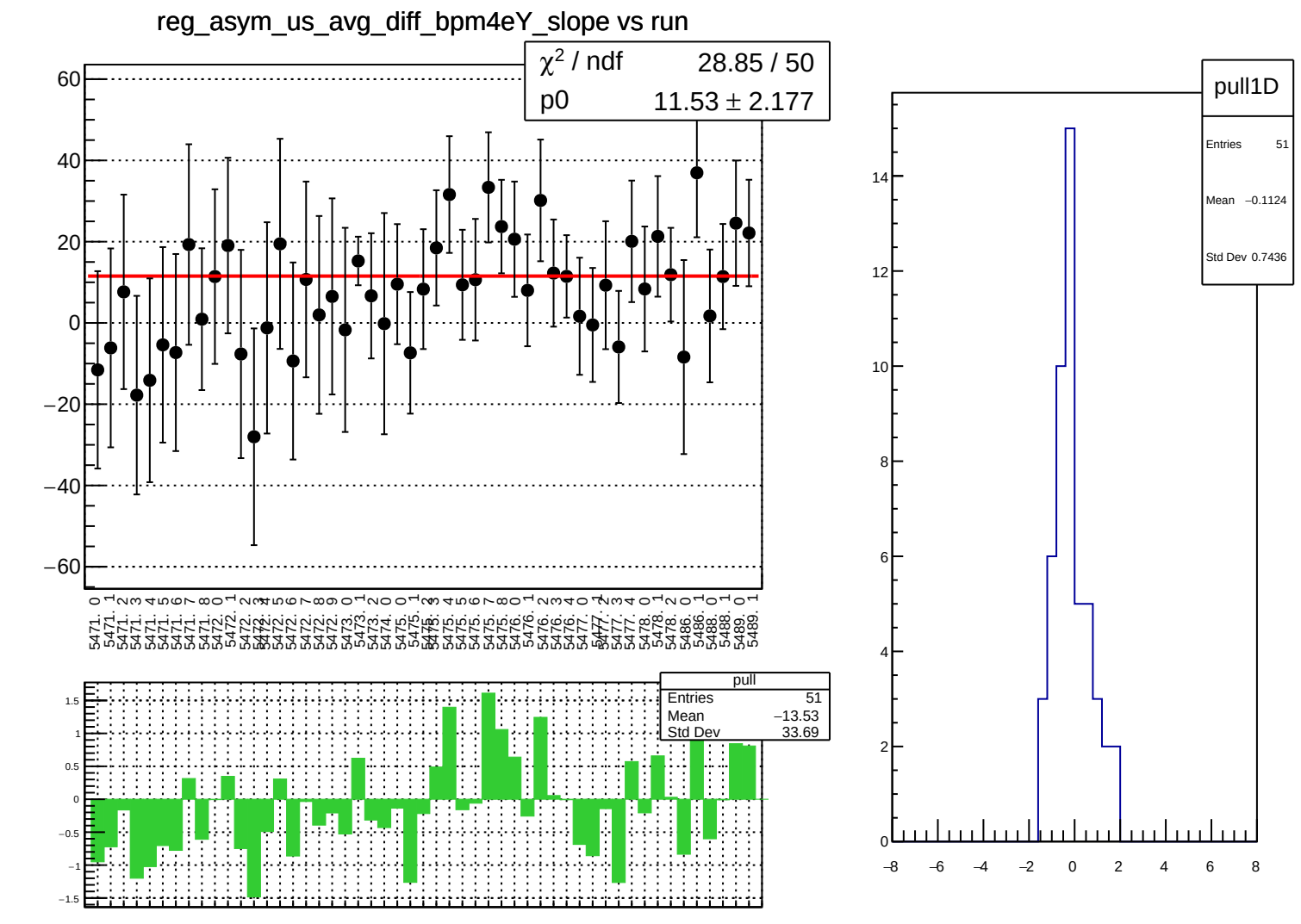

pull1D
Entries 51
Mean 0.01216
Std Dev 0.6306

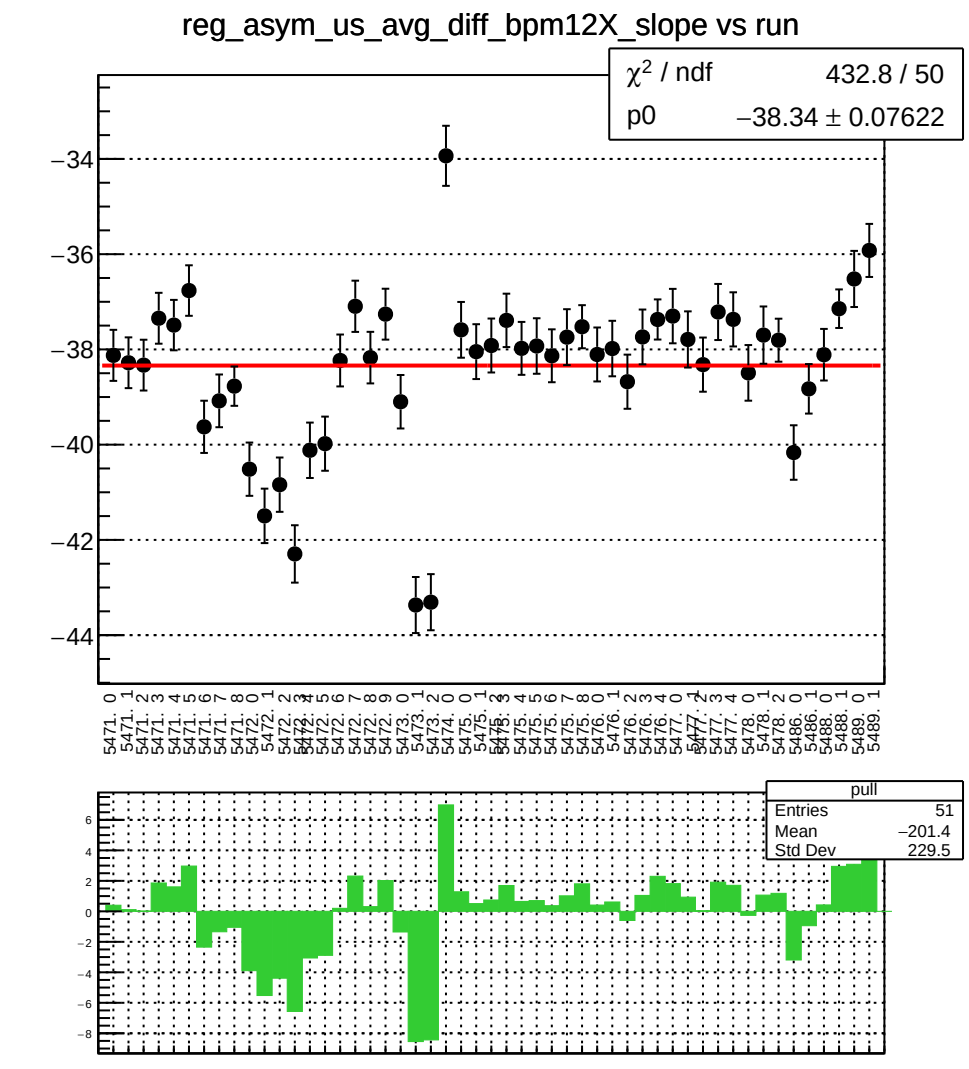

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.75 / 50
p0 5.491 ± 1.728
pull
Entries 51
Mean −14.17
Std Dev 34.51

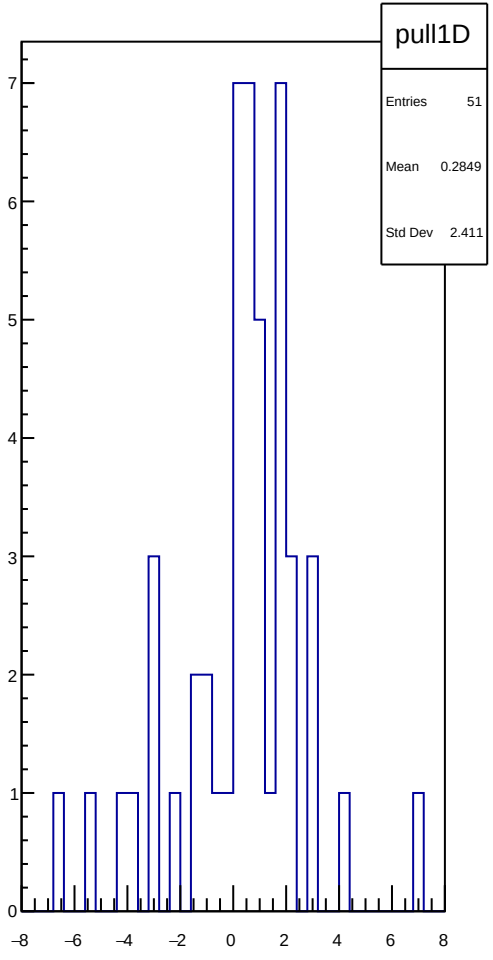

pull1D
Entries 51
Mean 0.127
Std Dev 0.7532

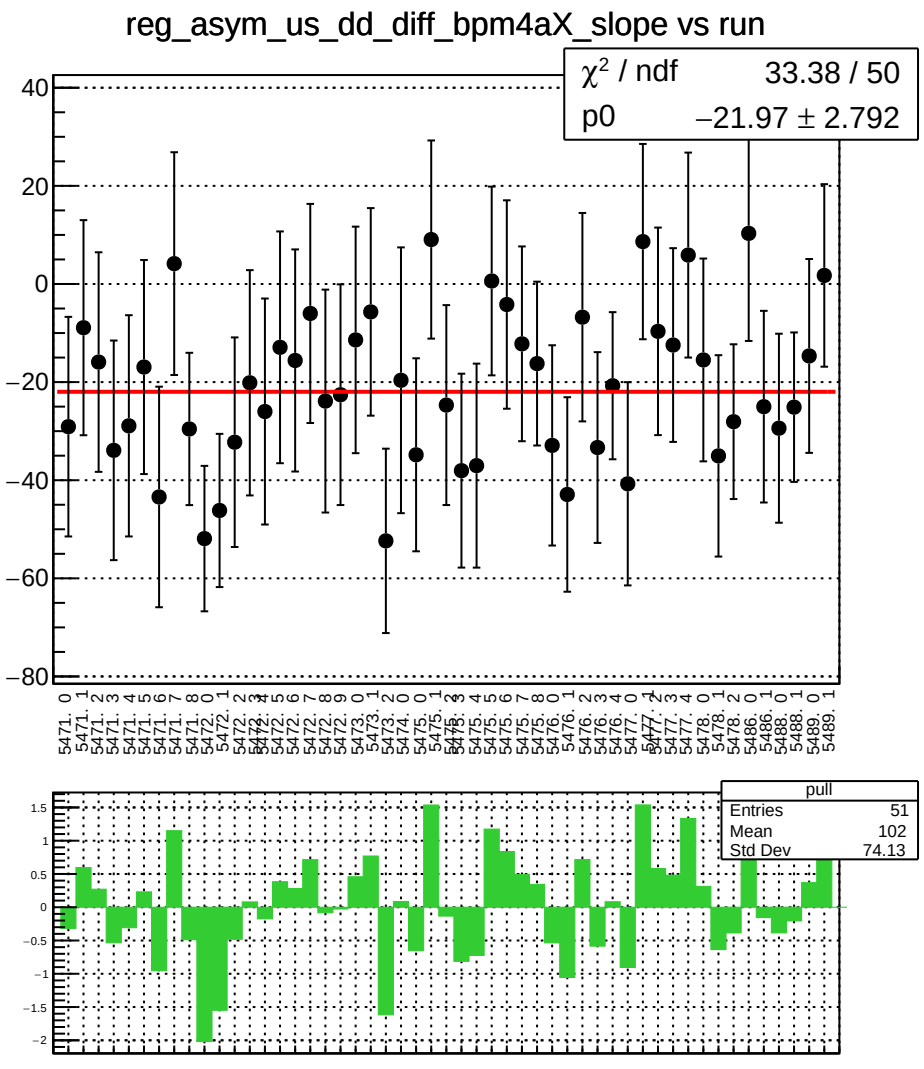

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.18 / 50
p0 51.72 ± 3.005
pull
Entries 51
Mean −275.2
Std Dev 299.1

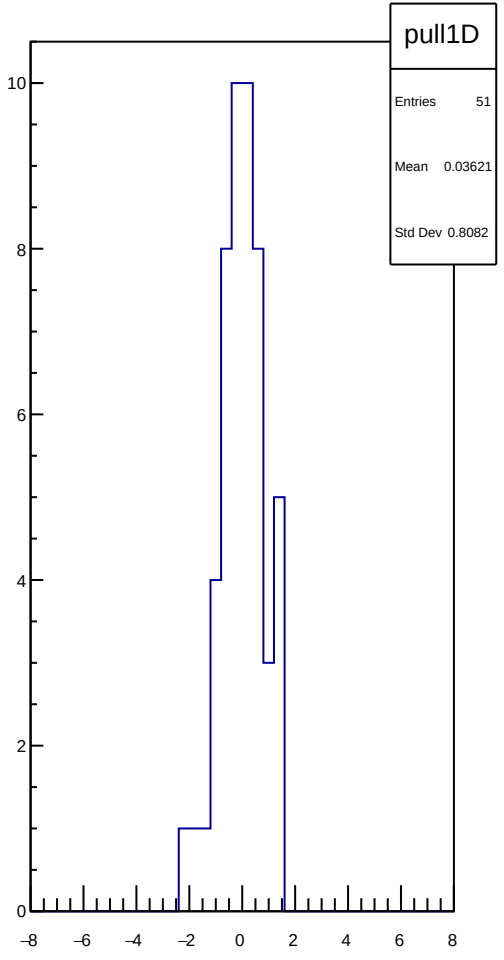

pull1D
Entries 51
Mean −0.01403
Std Dev 0.6289

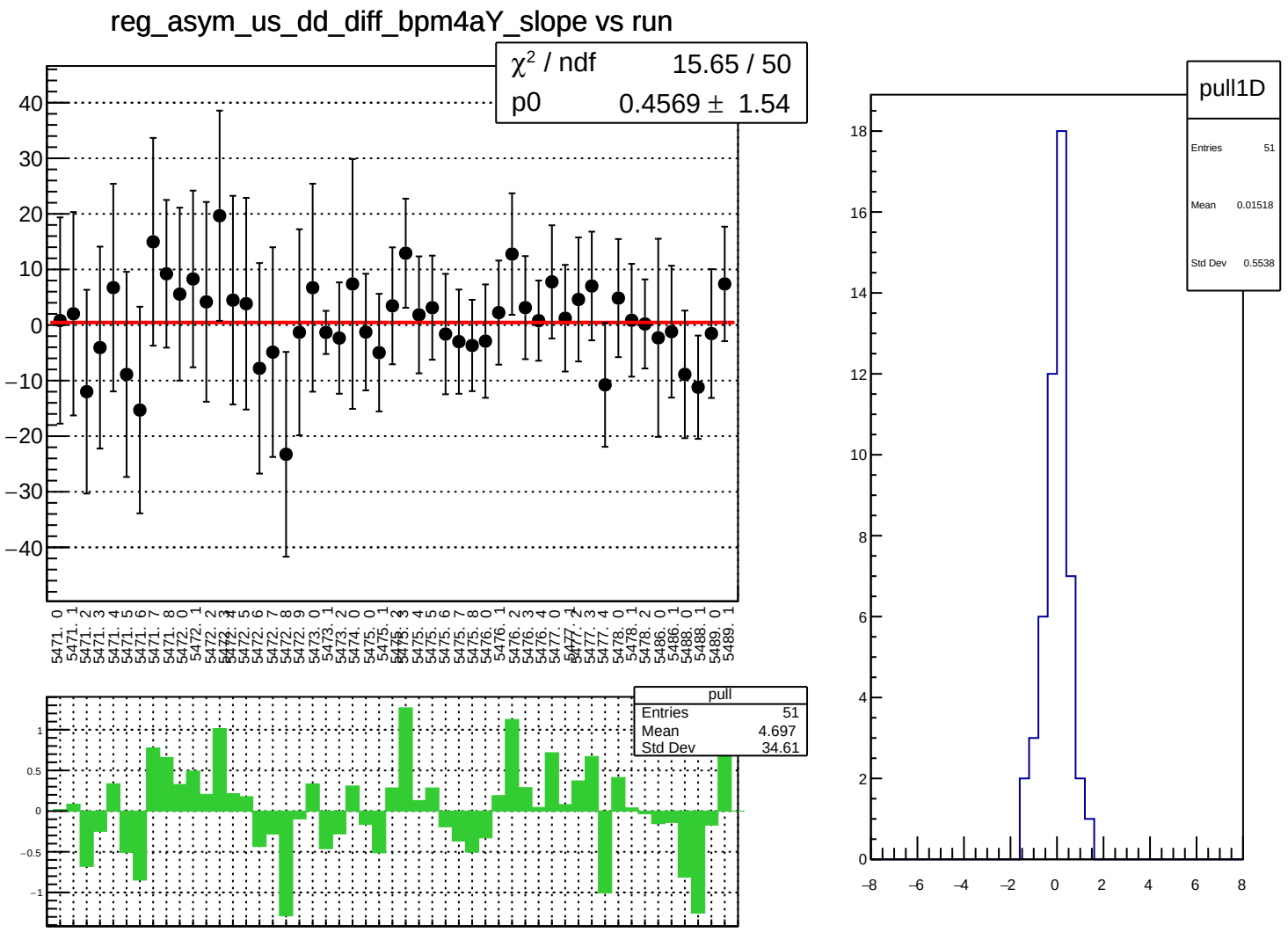

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.85 / 50
p0 11.53 ± 2.177
pull
Entries 51
Mean −13.53
Std Dev 33.69
pull1D
Entries 51
Mean −0.1124
Std Dev 0.7436

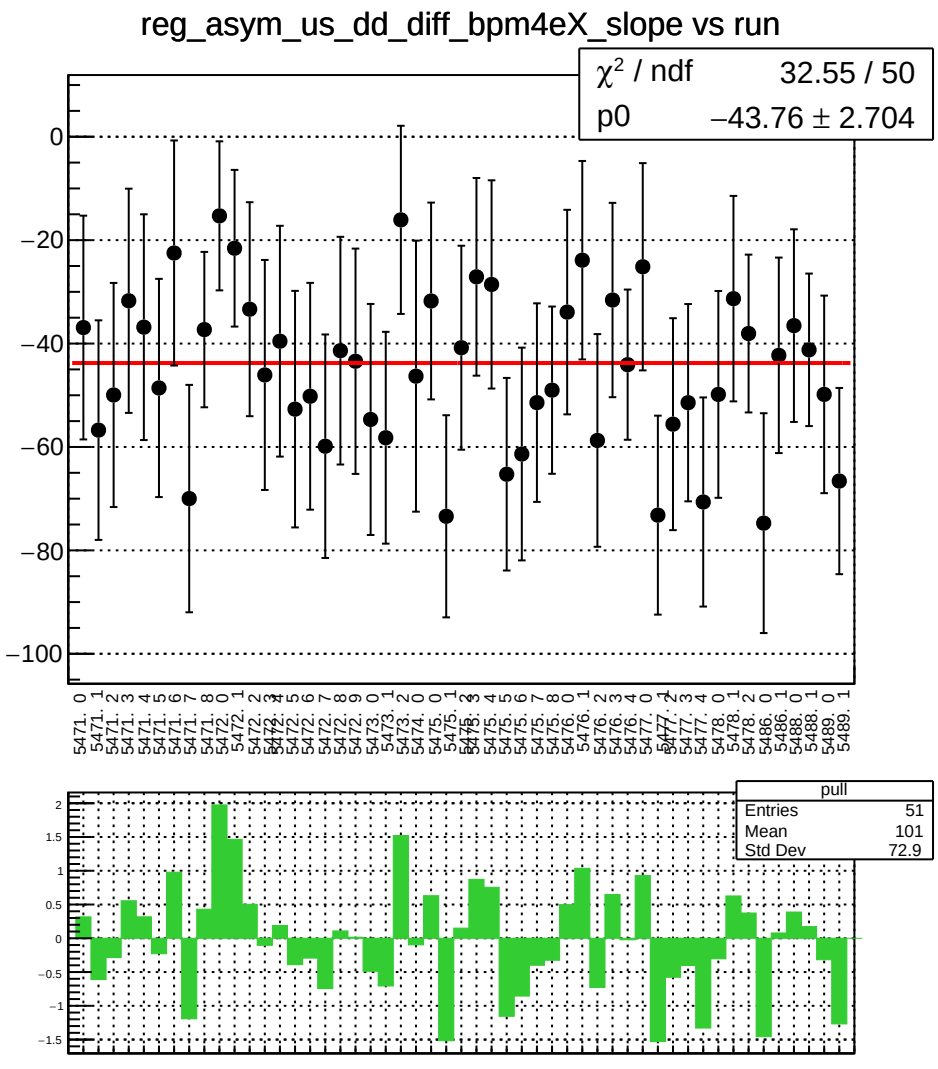

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 432.8 / 50
p0 −38.34 ± 0.07622
pull
Entries 51
Mean −201.4
Std Dev 229.5

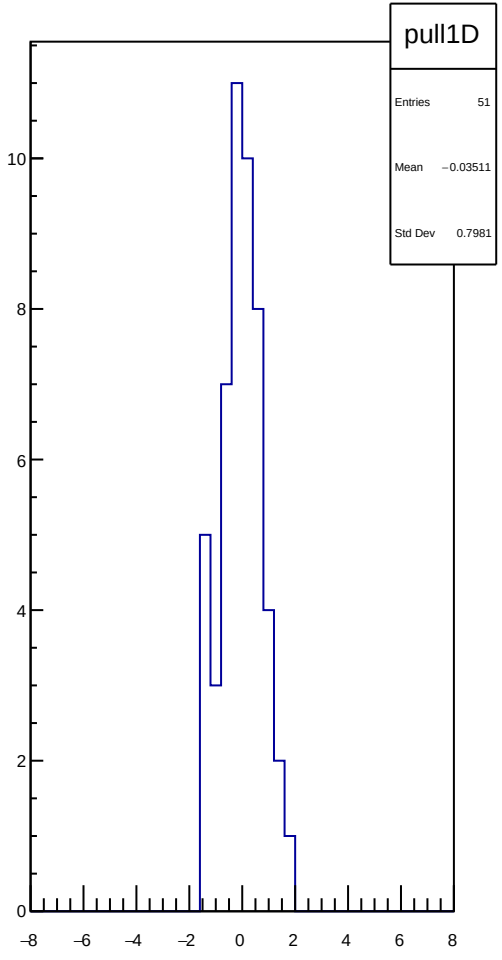

pull1D
Entries 51
Mean 0.2849
Std Dev 2.411

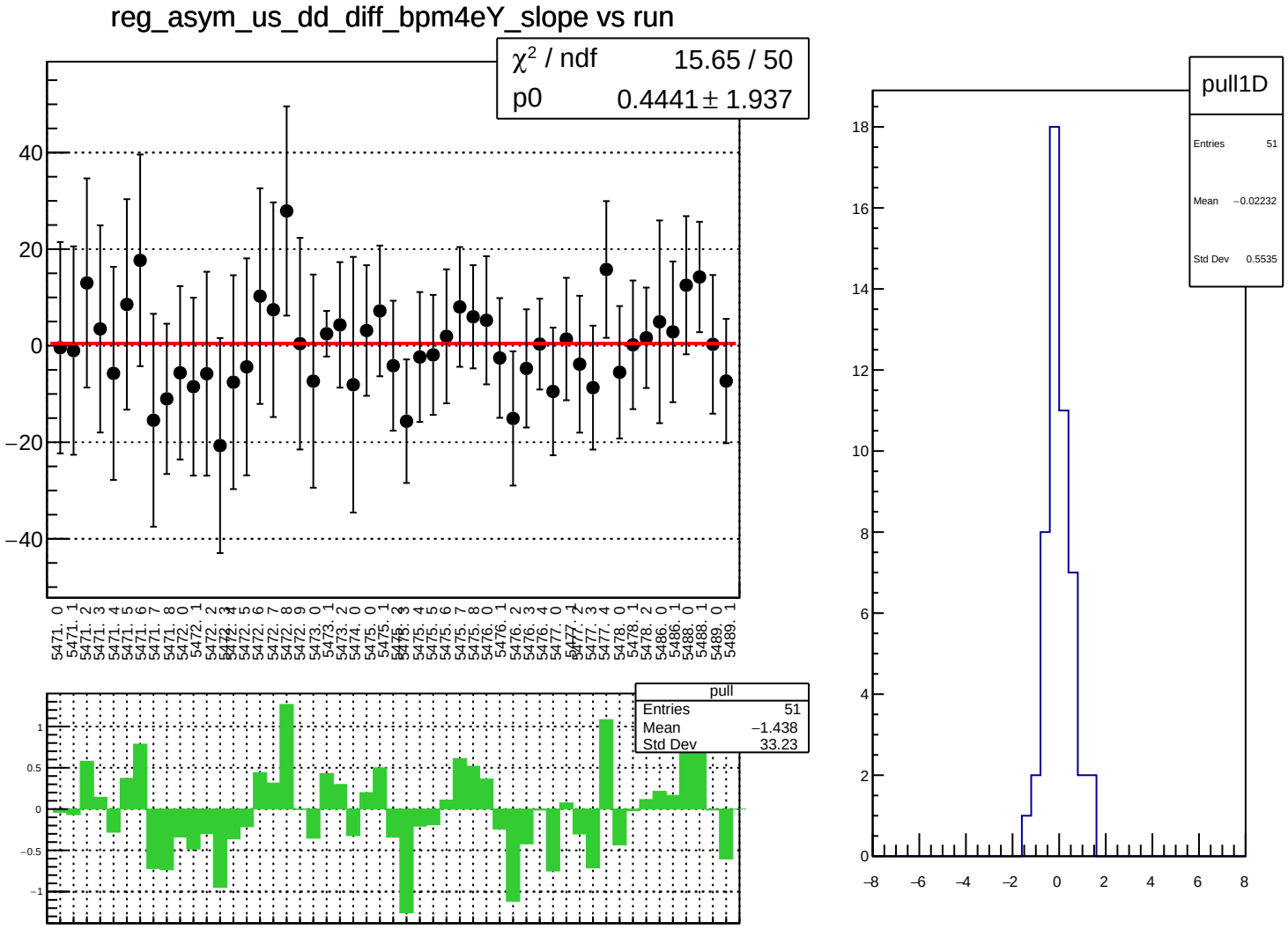

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 33.38 / 50
p0 −21.97 ± 2.792
pull
Entries 51
Mean 102
Std Dev 74.13

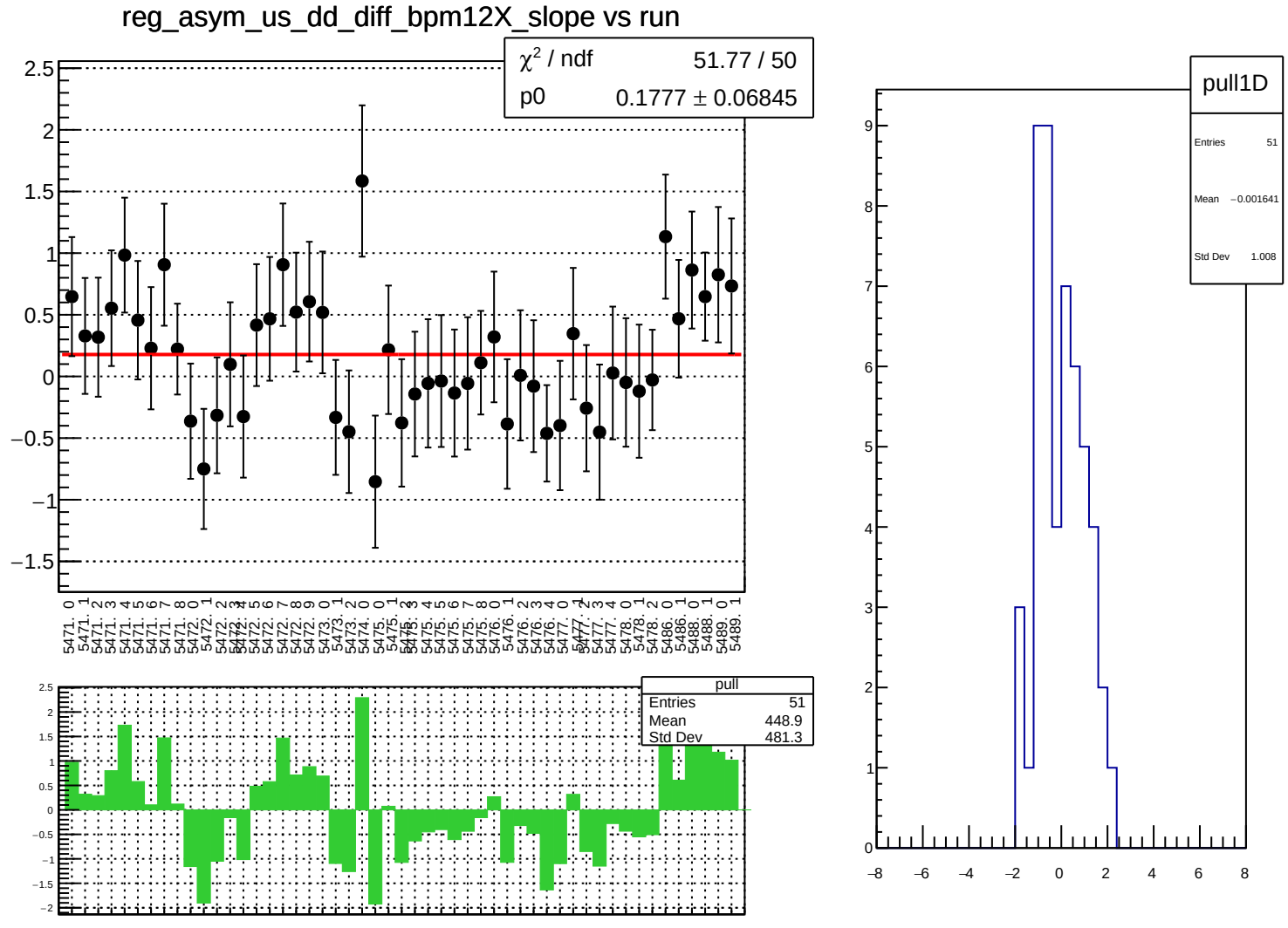

pull1D
Entries 51
Mean 0.03621
Std Dev 0.8082

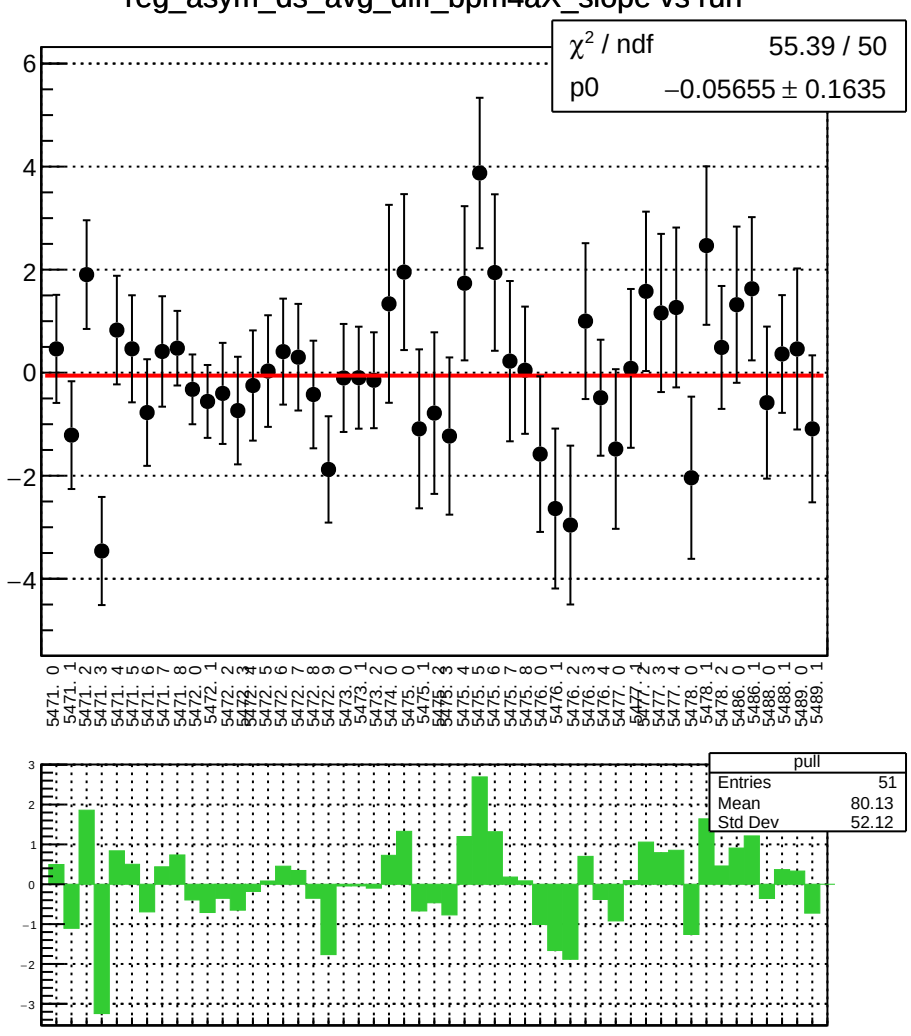

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.65 / 50
p0 0.4569 ± 1.54
pull
Entries 51
Mean 4.697
Std Dev 34.61
pull1D
Entries 51
Mean 0.01518
Std Dev 0.5538

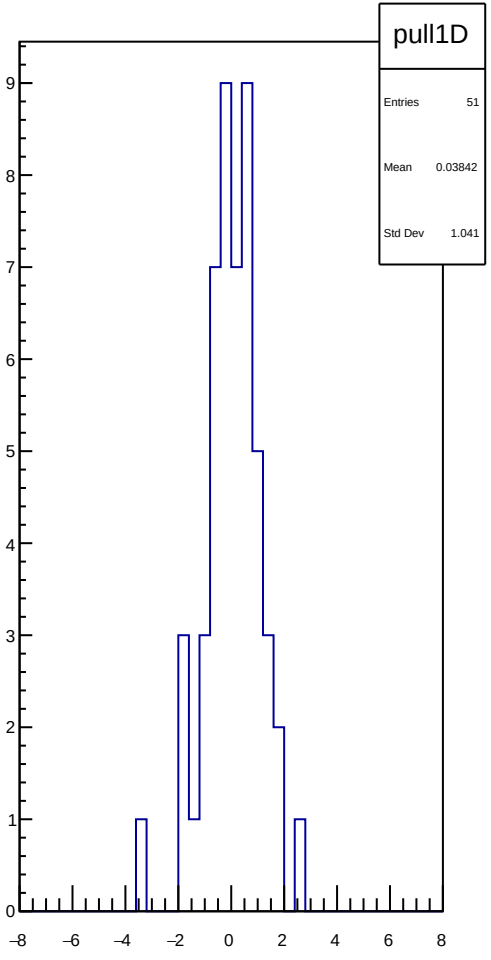

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.55 / 50
p0 −43.76 ± 2.704
pull
Entries 51
Mean 101
Std Dev 72.9

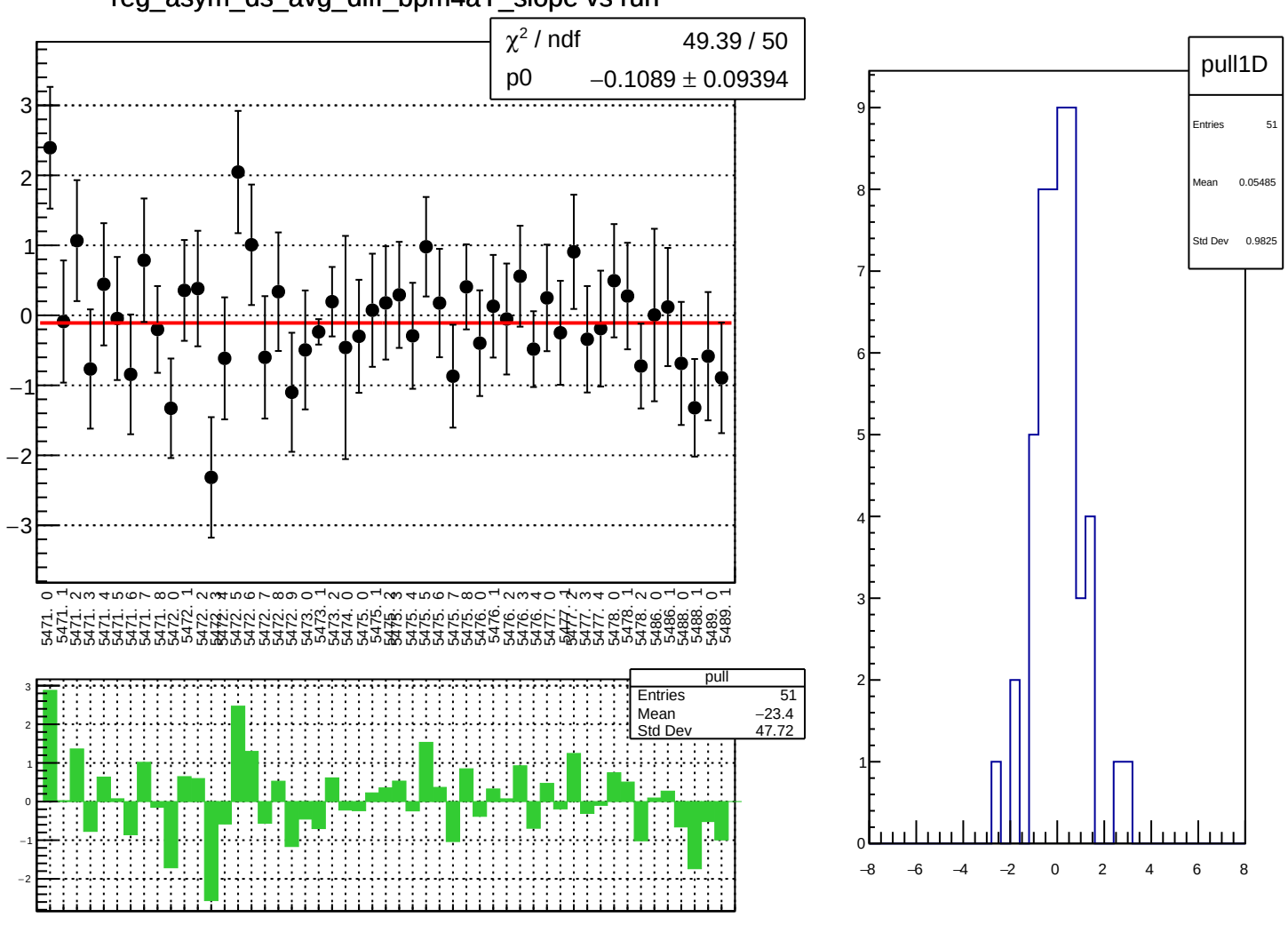

pull1D
Entries 51
Mean −0.03511
Std Dev 0.7981

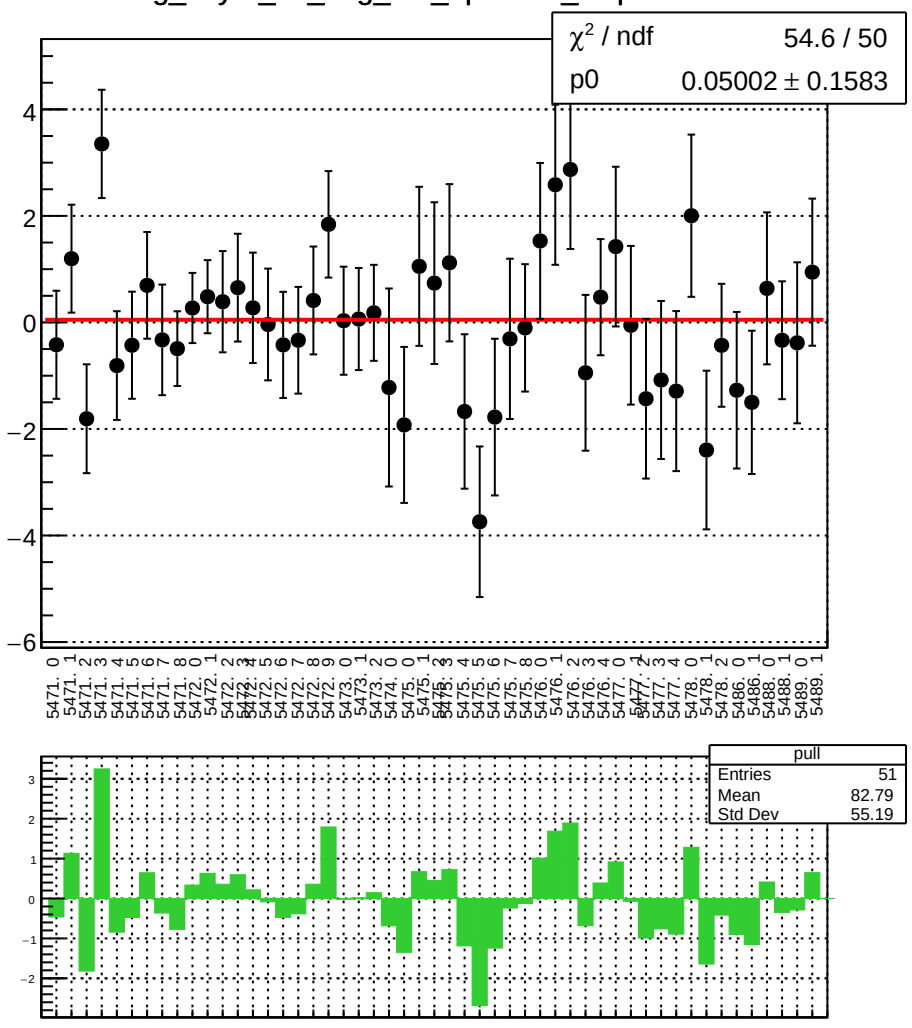

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.65 / 50
p0 0.4441 ± 1.937
pull
Entries 51
Mean −1.438
Std Dev 33.23
pull1D
Entries 51
Mean −0.02232
Std Dev 0.5535

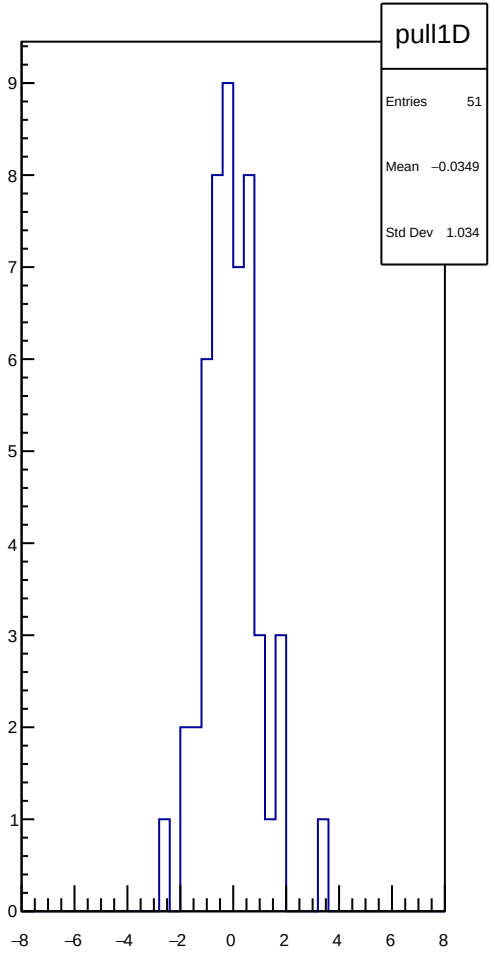

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 51.77 / 50
p0 0.1777 ± 0.06845
pull
Entries 51
Mean 448.9
Std Dev 481.3
pull1D
Entries 51
Mean −0.001641
Std Dev 1.008

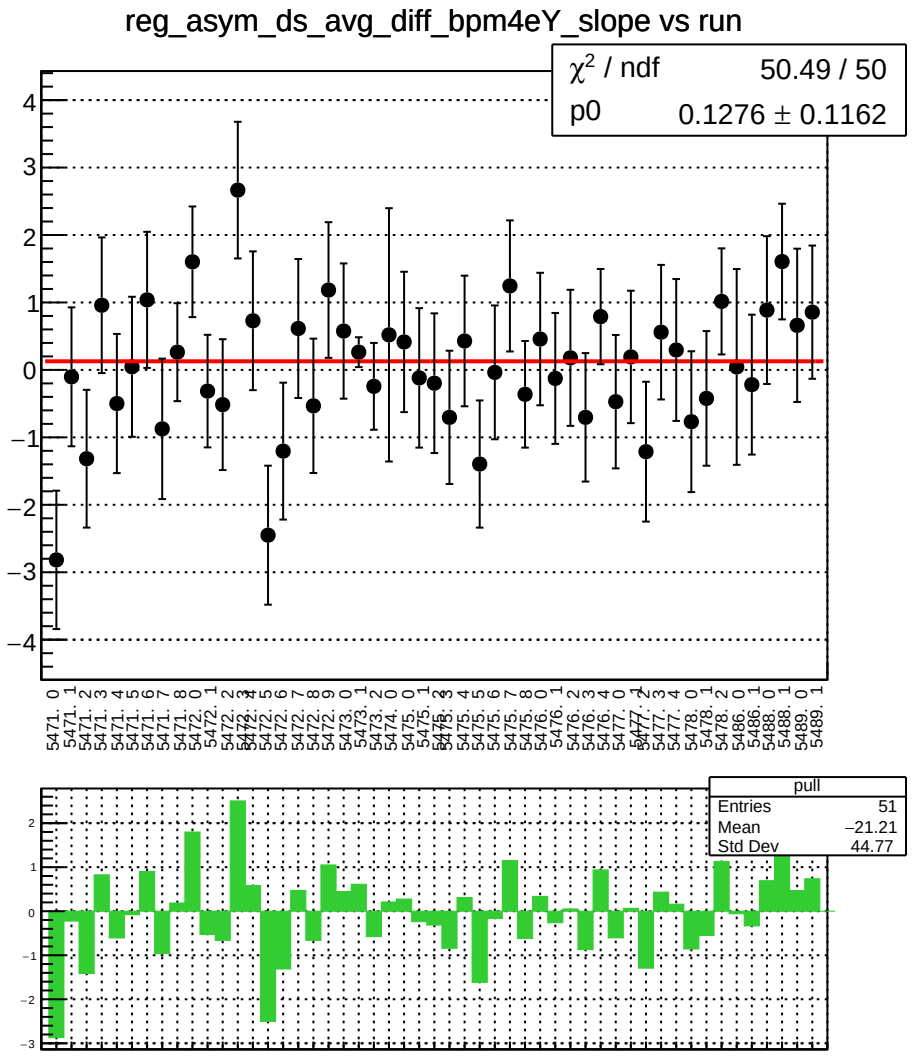

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 55.39 / 50
p0 −0.05655 ± 0.1635
pull
Entries 51
Mean 80.13
Std Dev 52.12

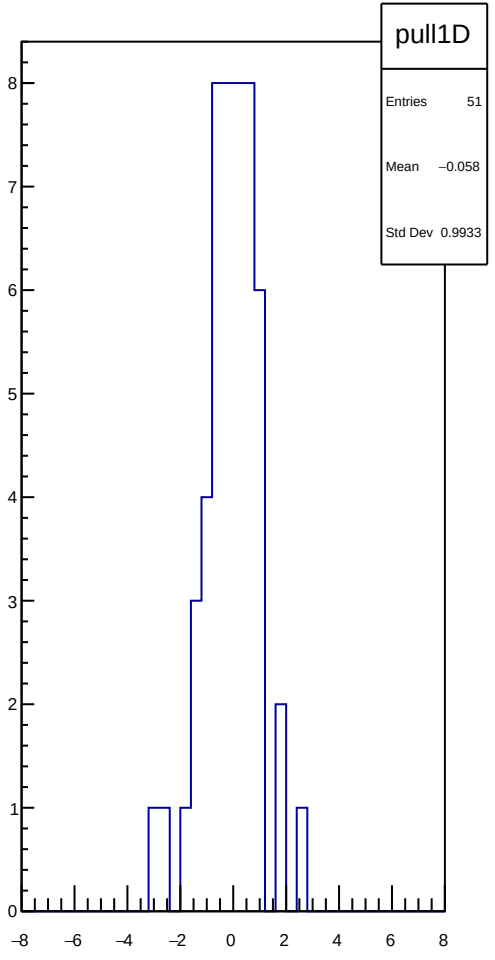

pull1D
Entries 51
Mean 0.03842
Std Dev 1.041

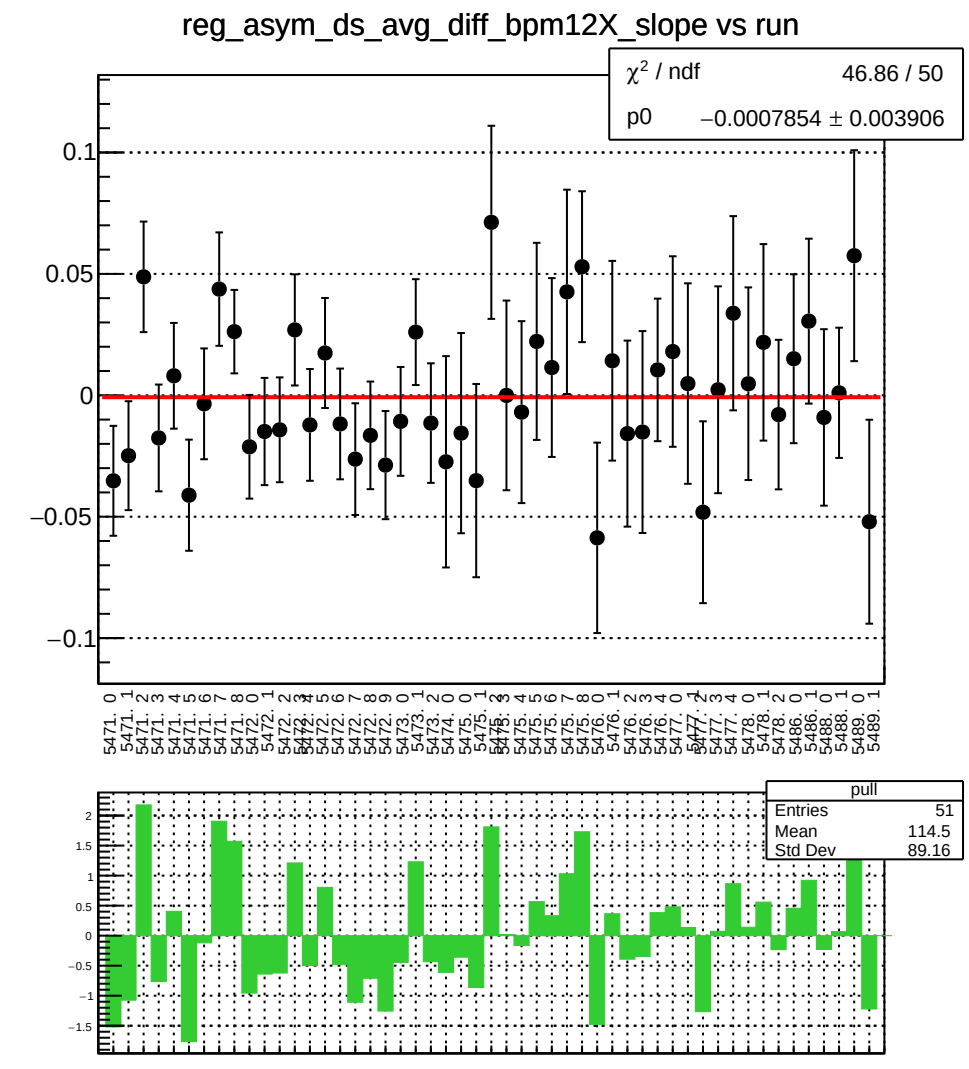

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.39 / 50
p0 −0.1089 ± 0.09394
pull
Entries 51
Mean −23.4
Std Dev 47.72
pull1D
Entries 51
Mean 0.05485
Std Dev 0.9825

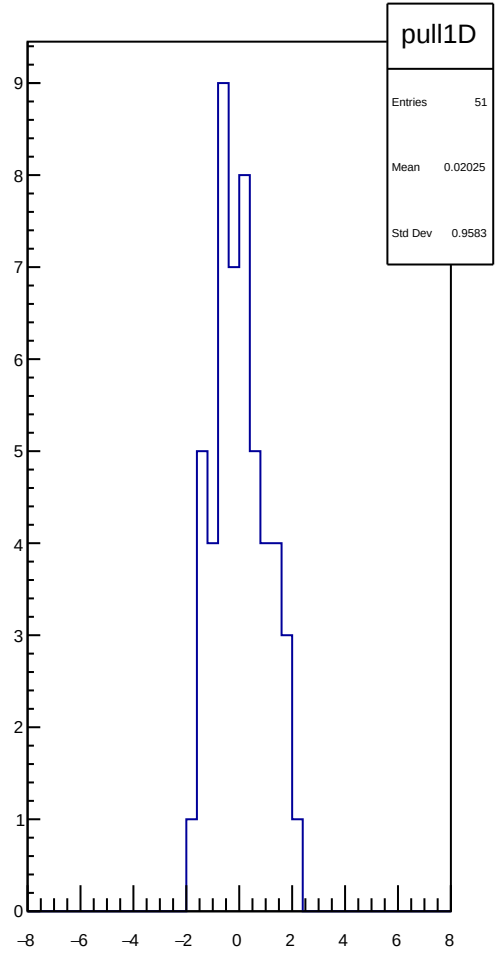

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.6 / 50
p0 0.05002 ± 0.1583
pull
Entries 51
Mean 82.79
Std Dev 55.19

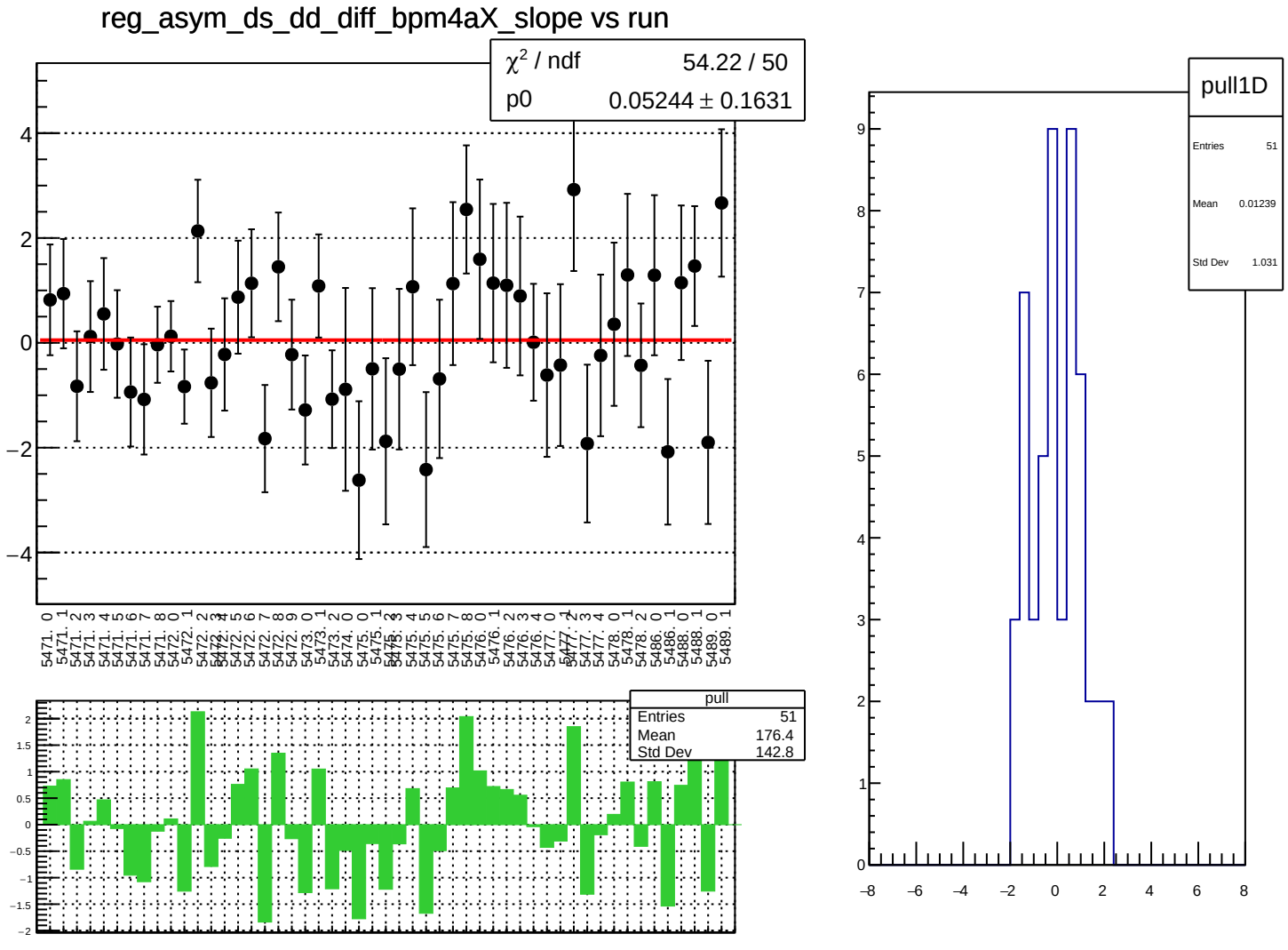

pull1D
Entries 51
Mean −0.0349
Std Dev 1.034

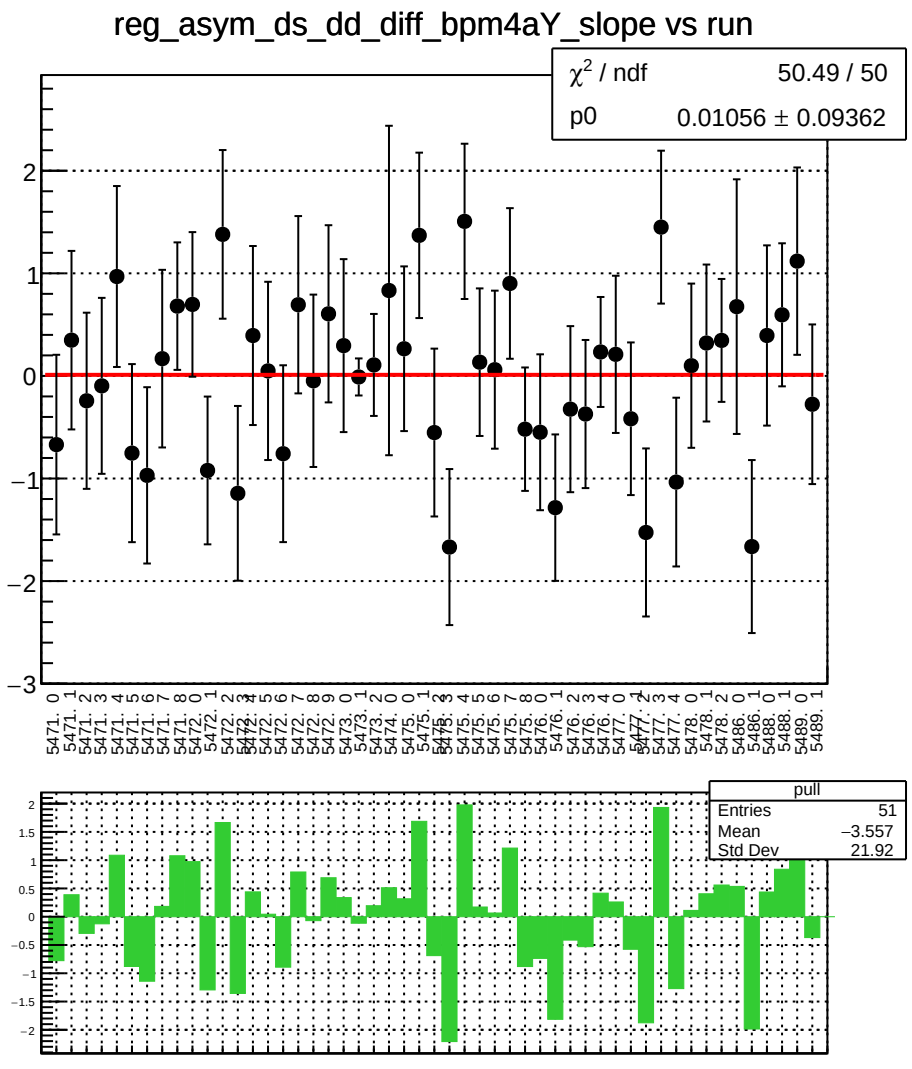

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.49 / 50
p0 0.1276 ± 0.1162
pull
Entries 51
Mean −21.21
Std Dev 44.77

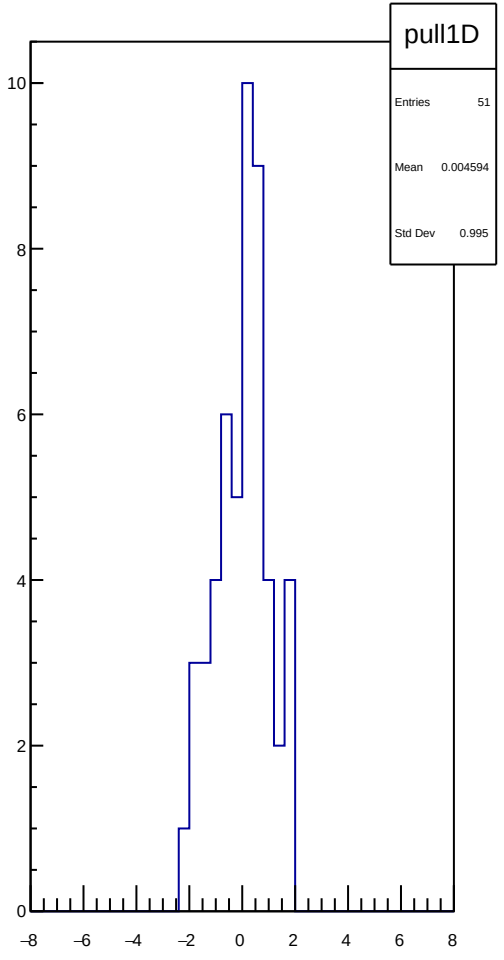

pull1D
Entries 51
Mean −0.058
Std Dev 0.9933

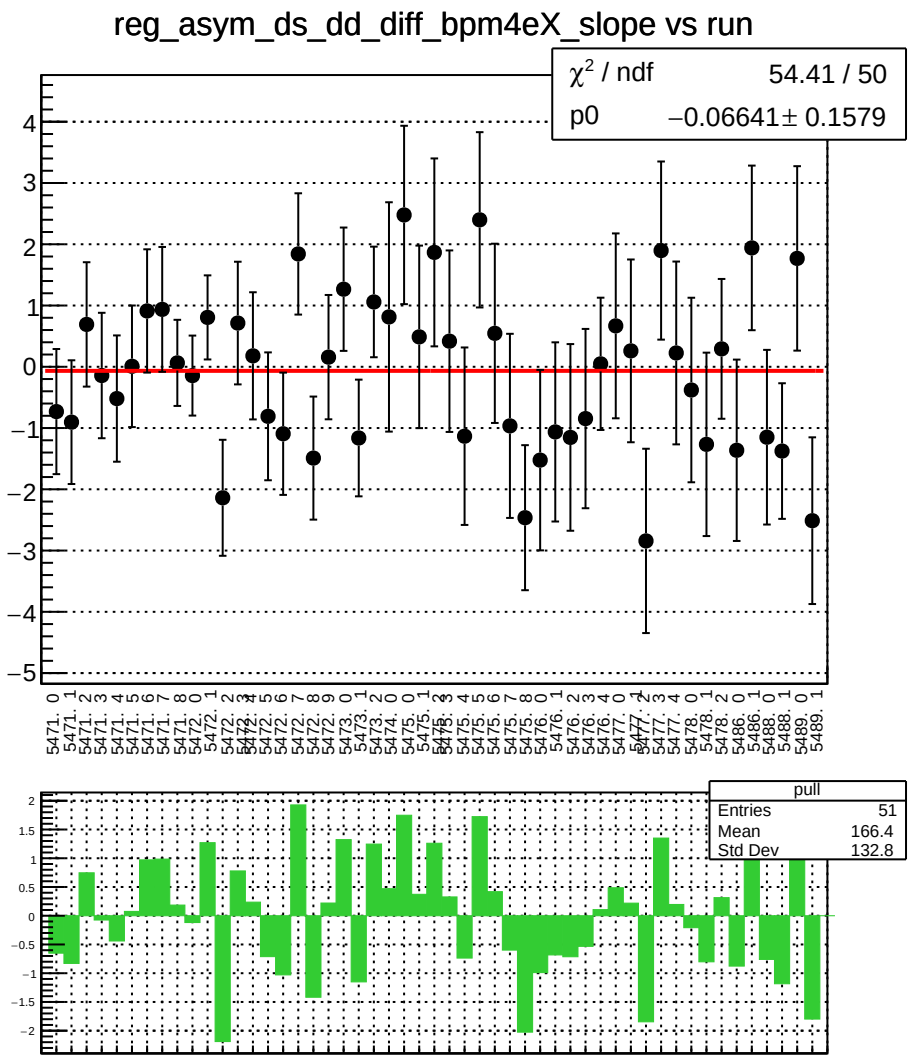

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 46.86 / 50
p0 −0.0007854 ± 0.003906
pull
Entries 51
Mean 114.5
Std Dev 89.16

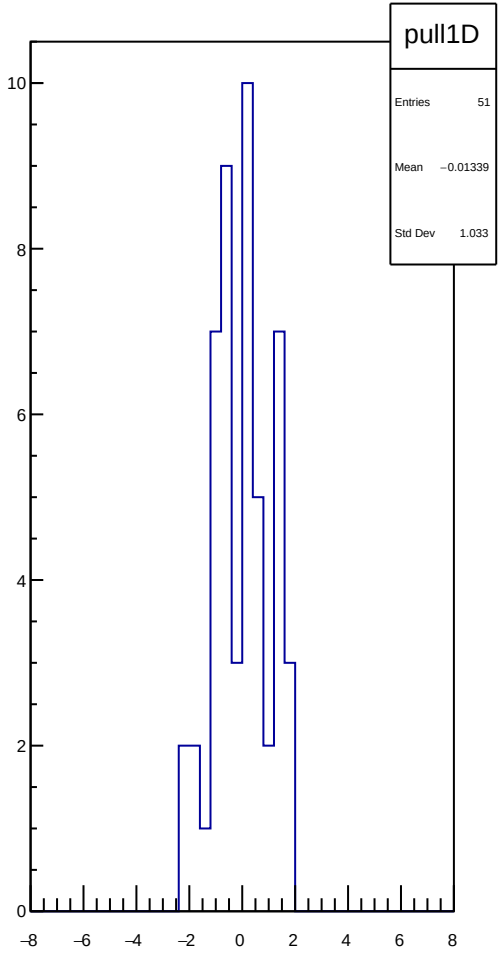

pull1D
Entries 51
Mean 0.02025
Std Dev 0.9583

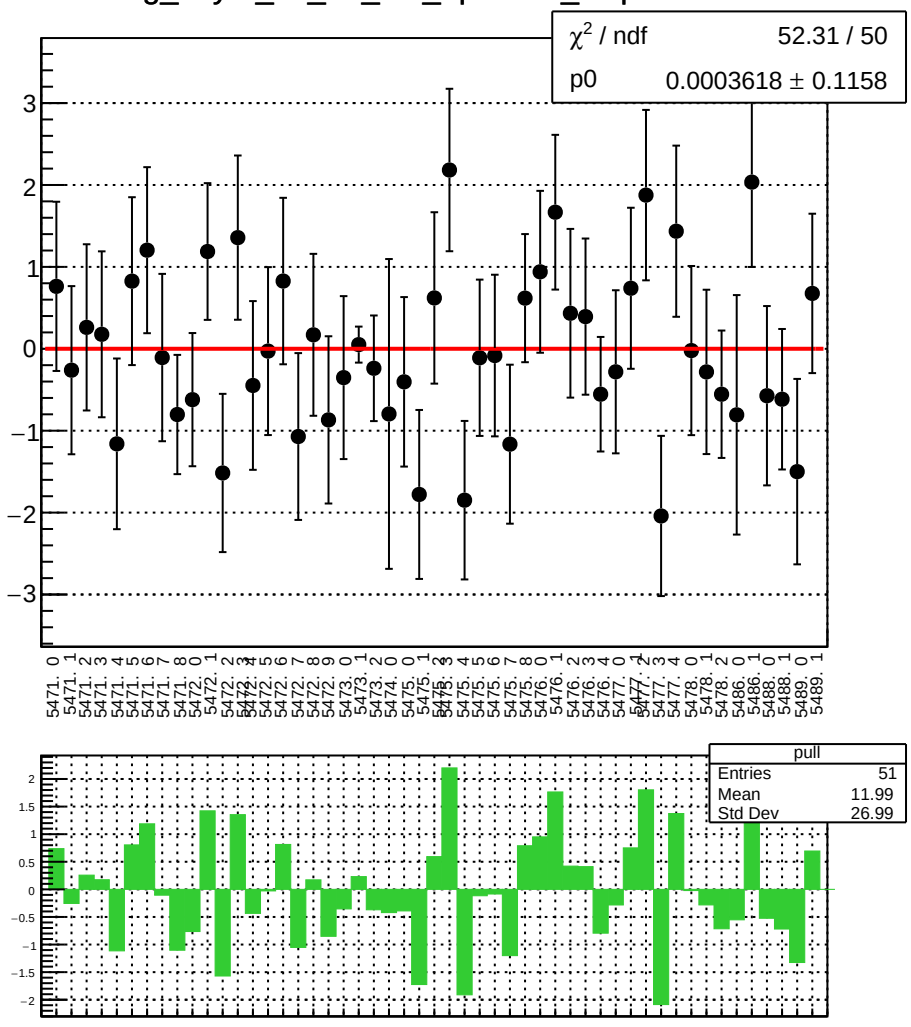

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 54.22 / 50
p0 0.05244 ± 0.1631
pull
Entries 51
Mean 176.4
Std Dev 142.8
pull1D
Entries 51
Mean 0.01239
Std Dev 1.031

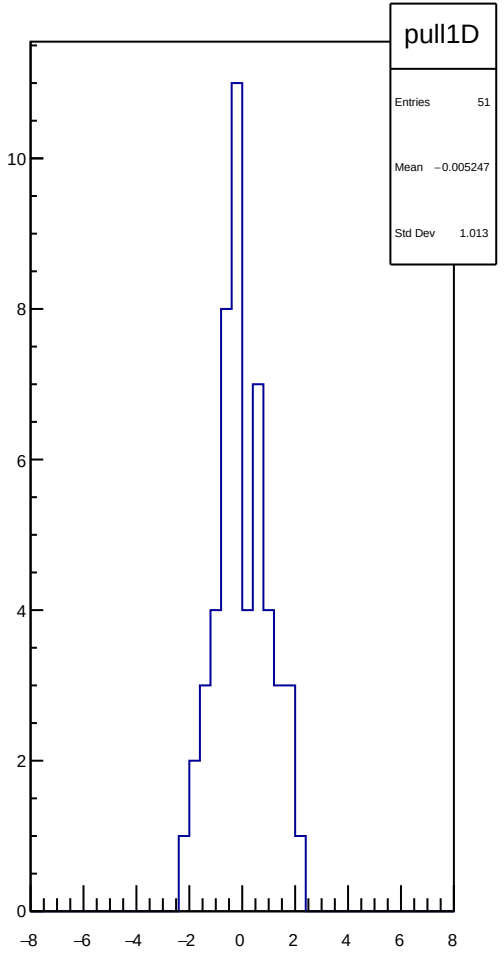

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.49 / 50
p0 0.01056 ± 0.09362
pull
Entries 51
Mean −3.557
Std Dev 21.92

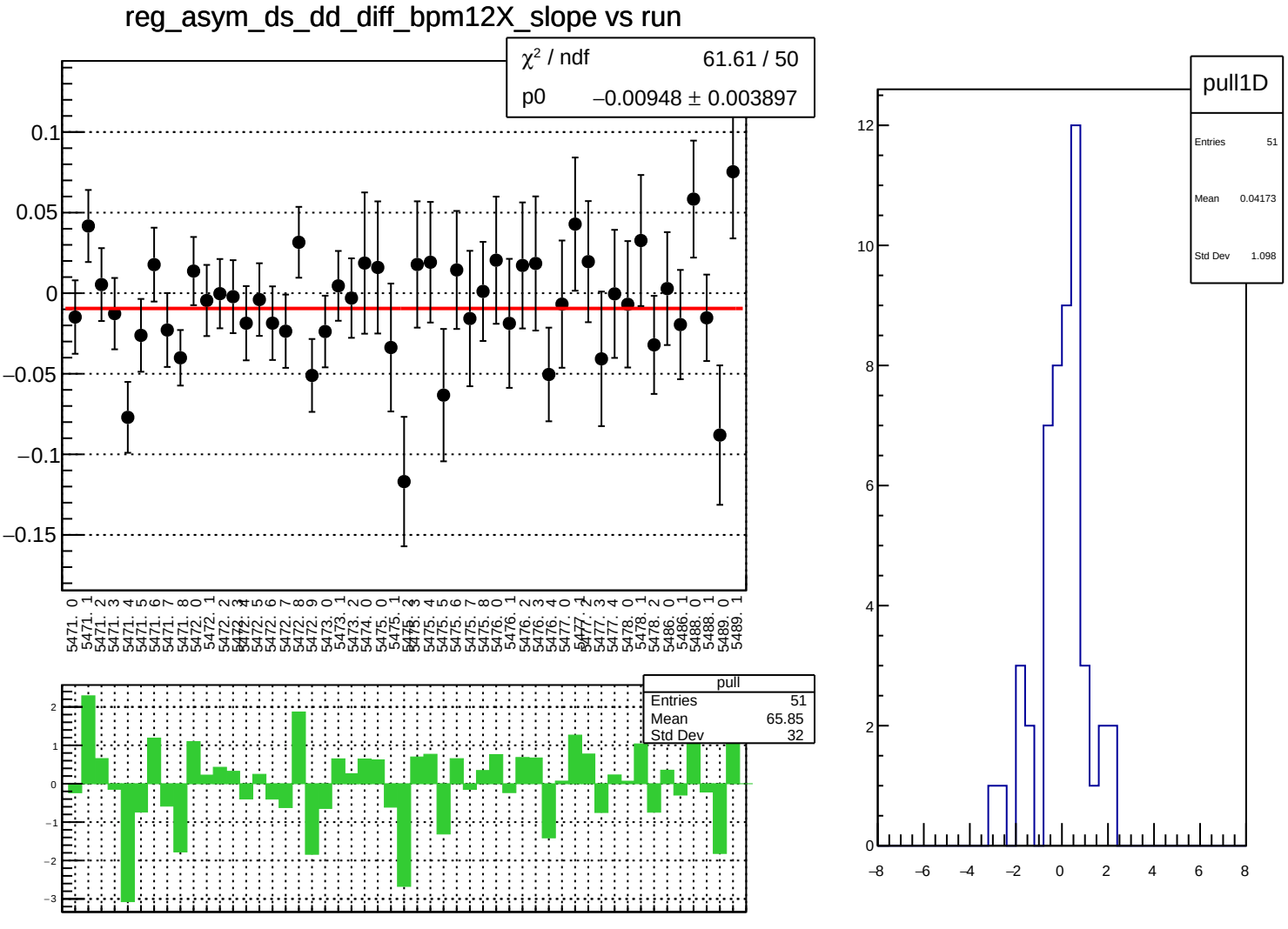

pull1D
Entries 51
Mean 0.004594
Std Dev 0.995

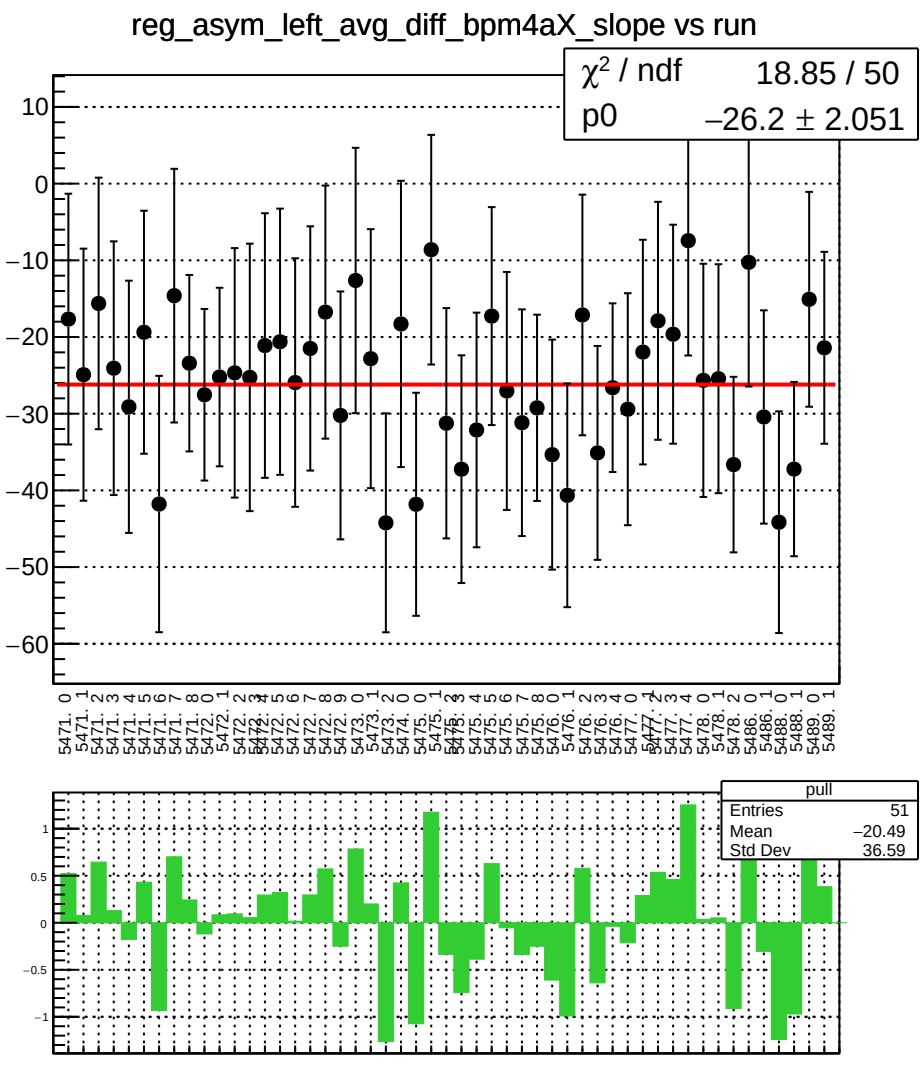

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.41 / 50
p0 −0.06641± 0.1579
pull
Entries 51
Mean 166.4
Std Dev 132.8

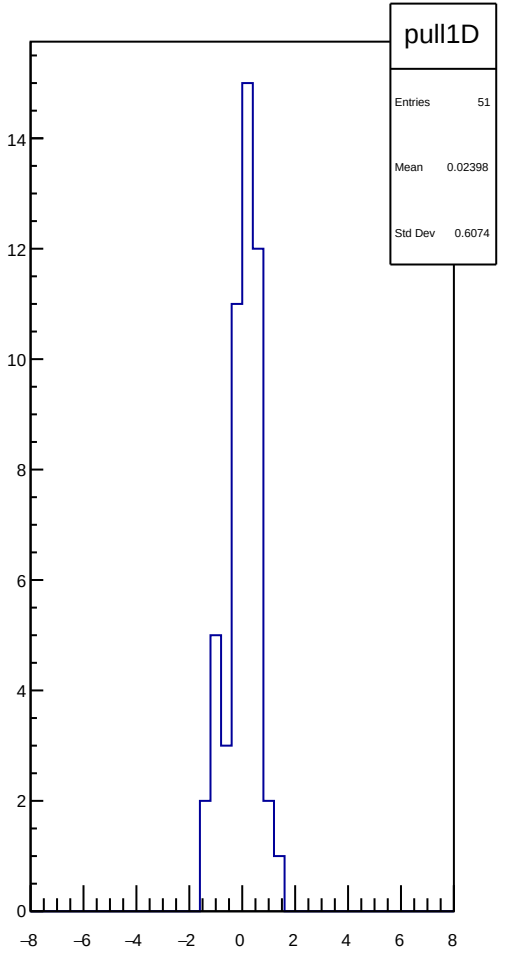

pull1D
Entries 51
Mean −0.01339
Std Dev 1.033

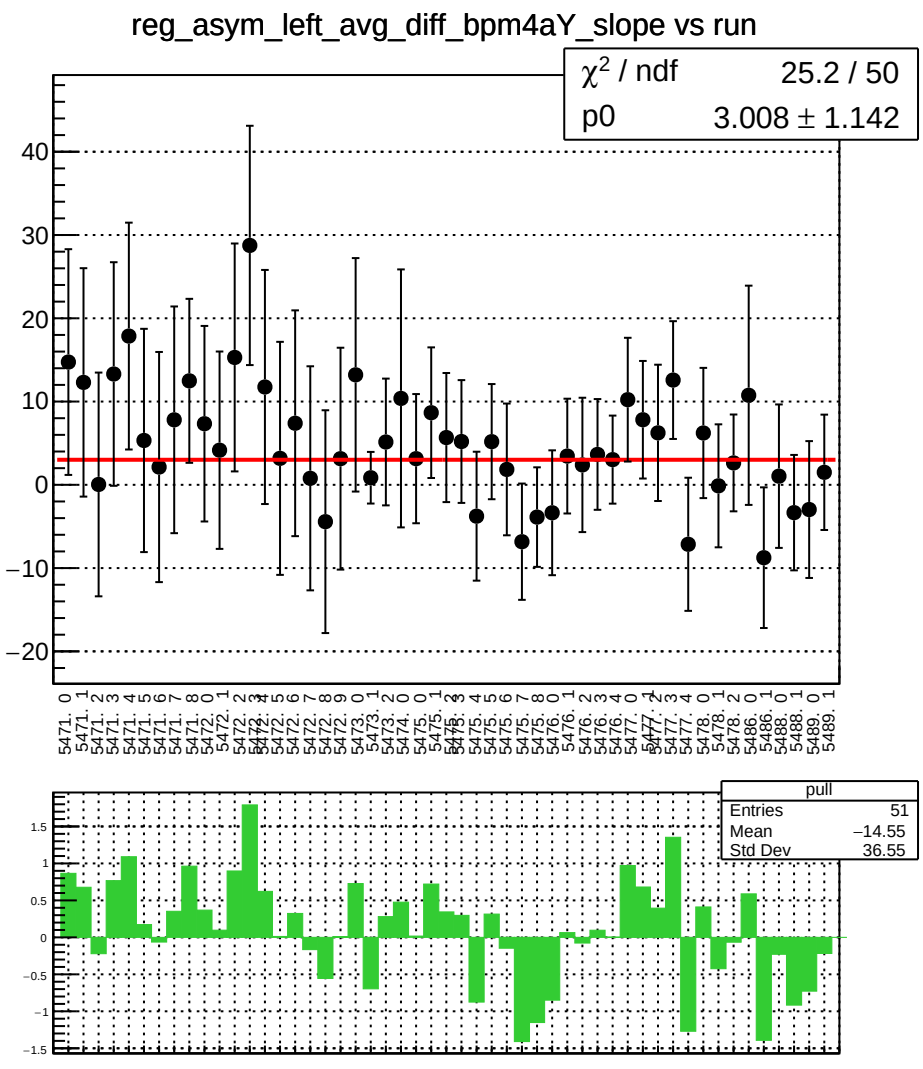

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.31 / 50
p0 0.0003618 ± 0.1158
pull
Entries 51
Mean 11.99
Std Dev 26.99

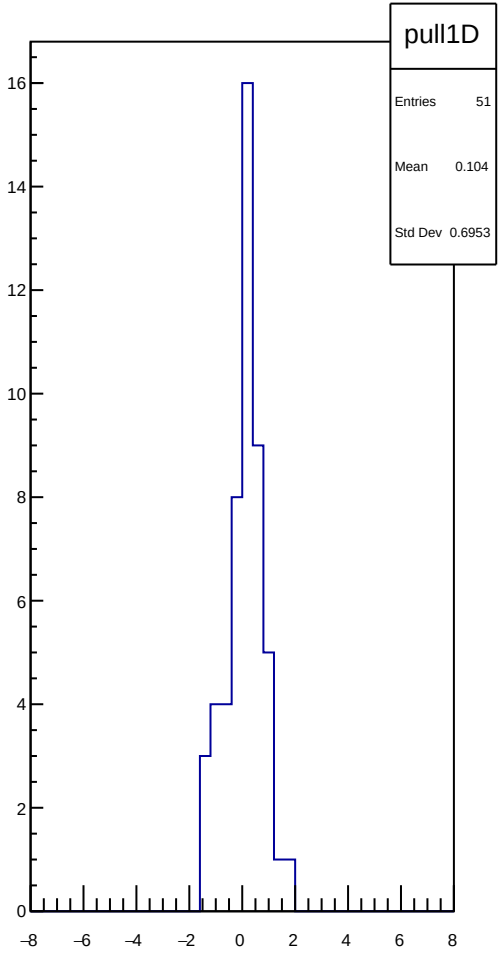

pull1D
Entries 51
Mean −0.005247
Std Dev 1.013

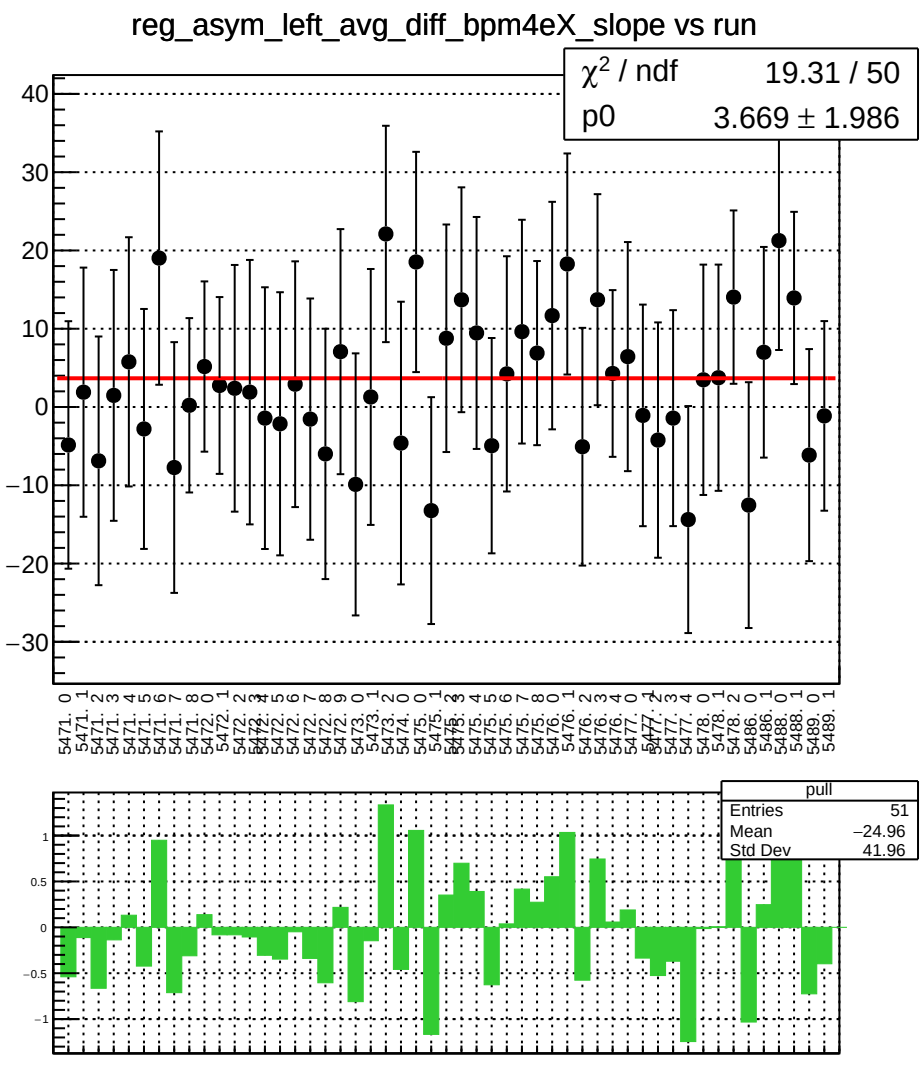

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 61.61 / 50
p0 −0.00948 ± 0.003897
pull
Entries 51
Mean 65.85
Std Dev 32
pull1D
Entries 51
Mean 0.04173
Std Dev 1.098

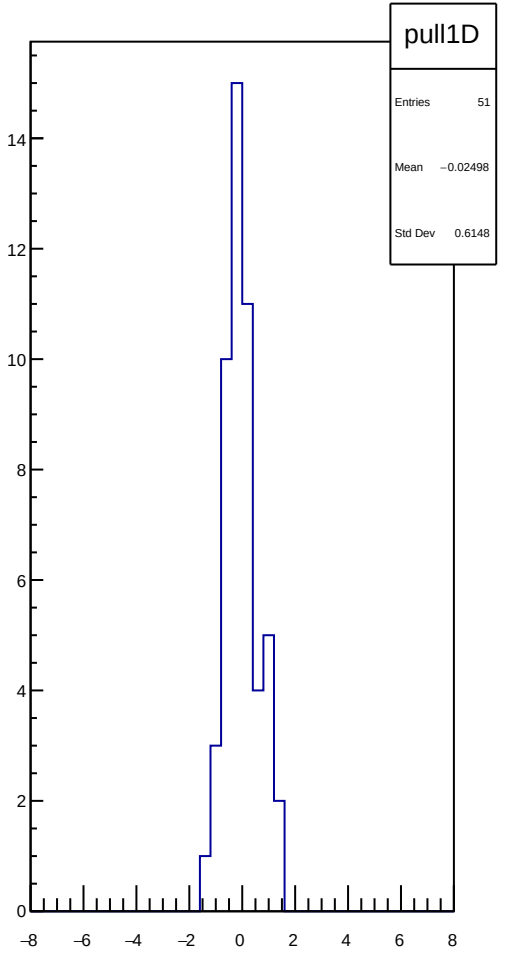

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 18.85 / 50
p0 −26.2 ± 2.051
pull
Entries 51
Mean −20.49
Std Dev 36.59

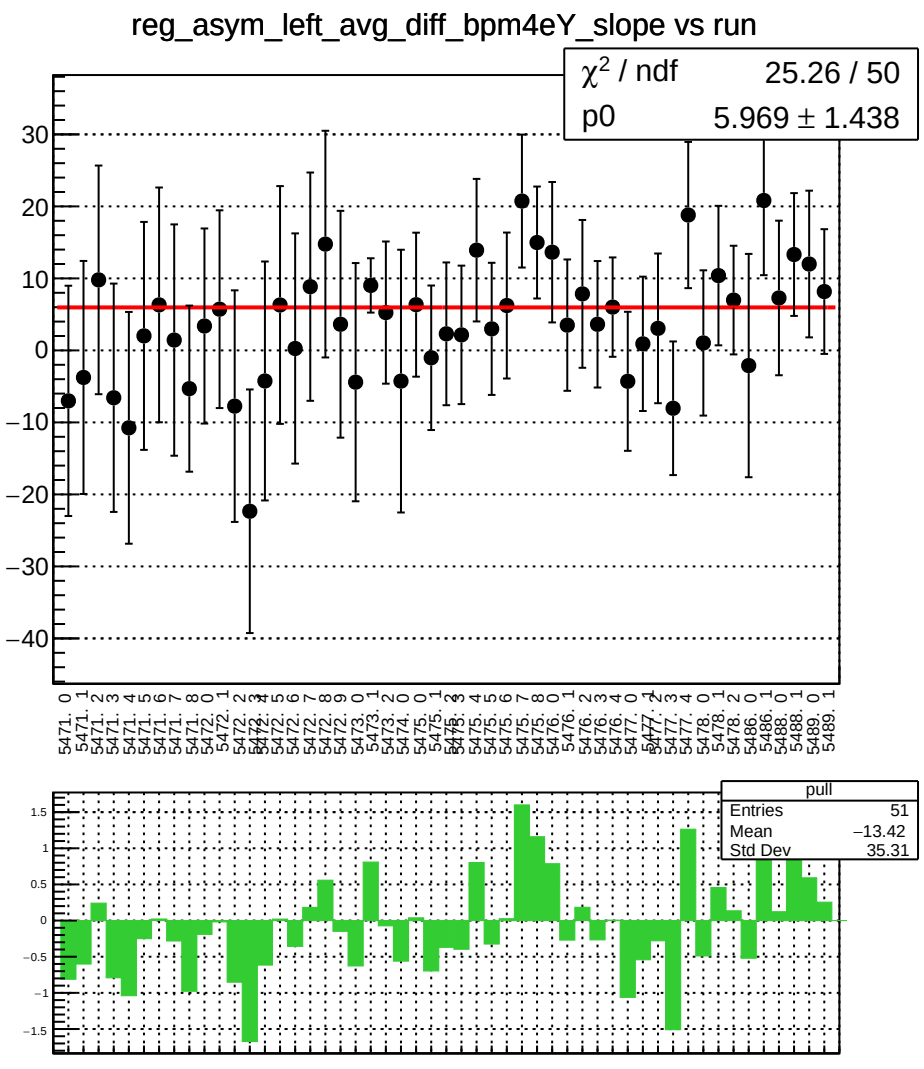

pull1D
Entries 51
Mean 0.02398
Std Dev 0.6074

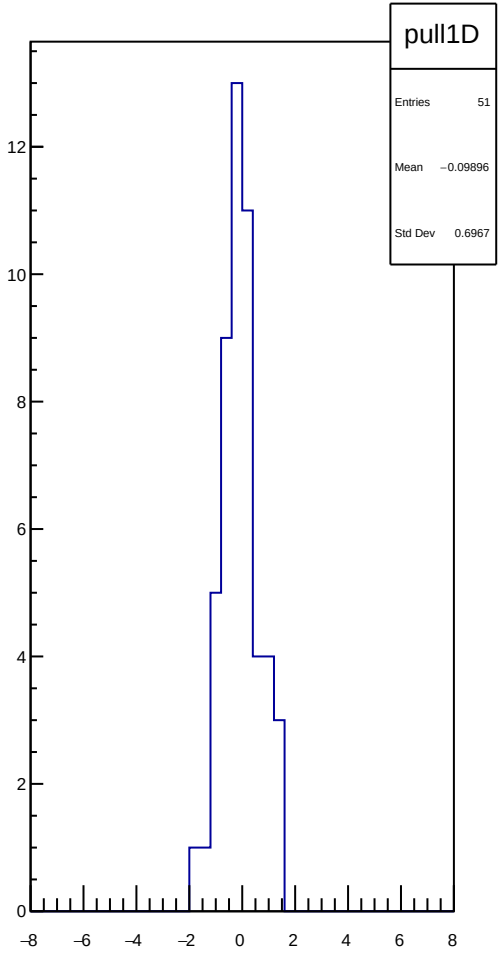

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.2 / 50
p0 3.008 ± 1.142
pull
Entries 51
Mean −14.55
Std Dev 36.55

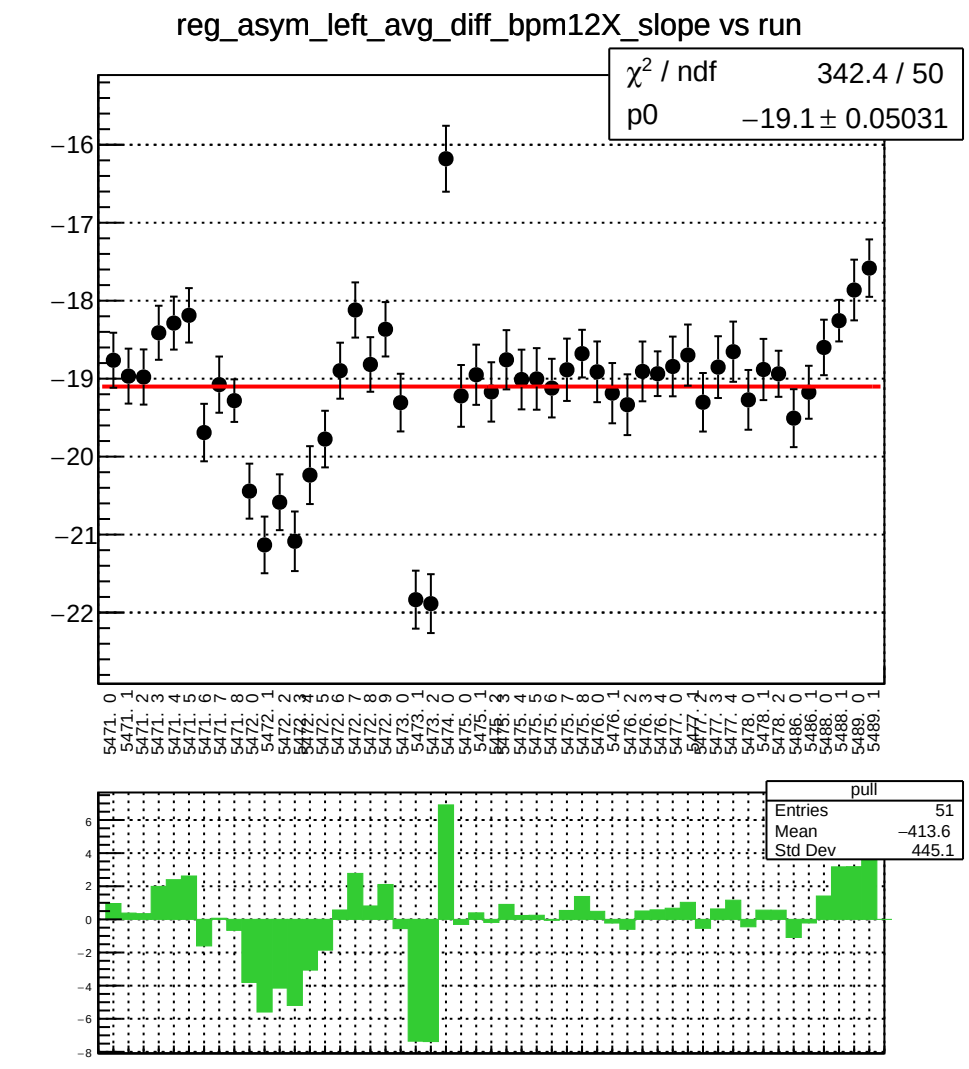

pull1D
Entries 51
Mean 0.104
Std Dev 0.6953

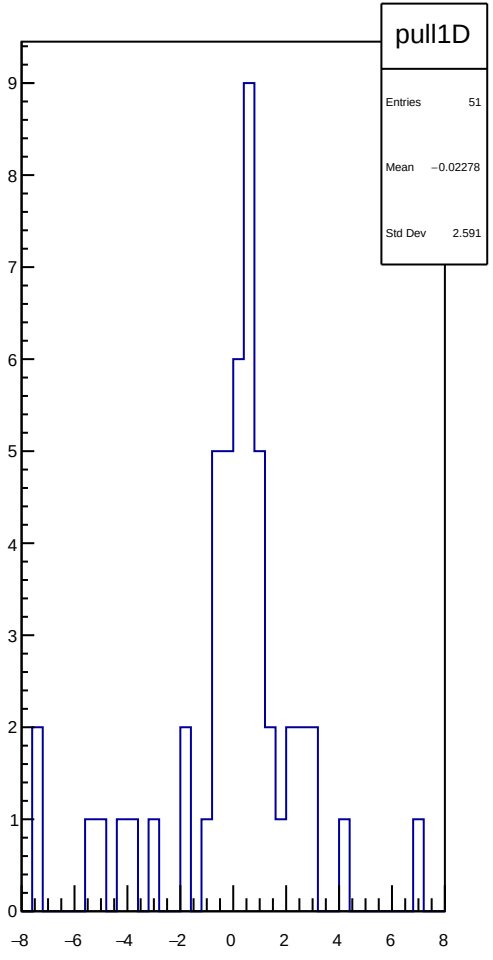

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.31 / 50
p0 3.669 ± 1.986
pull
Entries 51
Mean −24.96
Std Dev 41.96

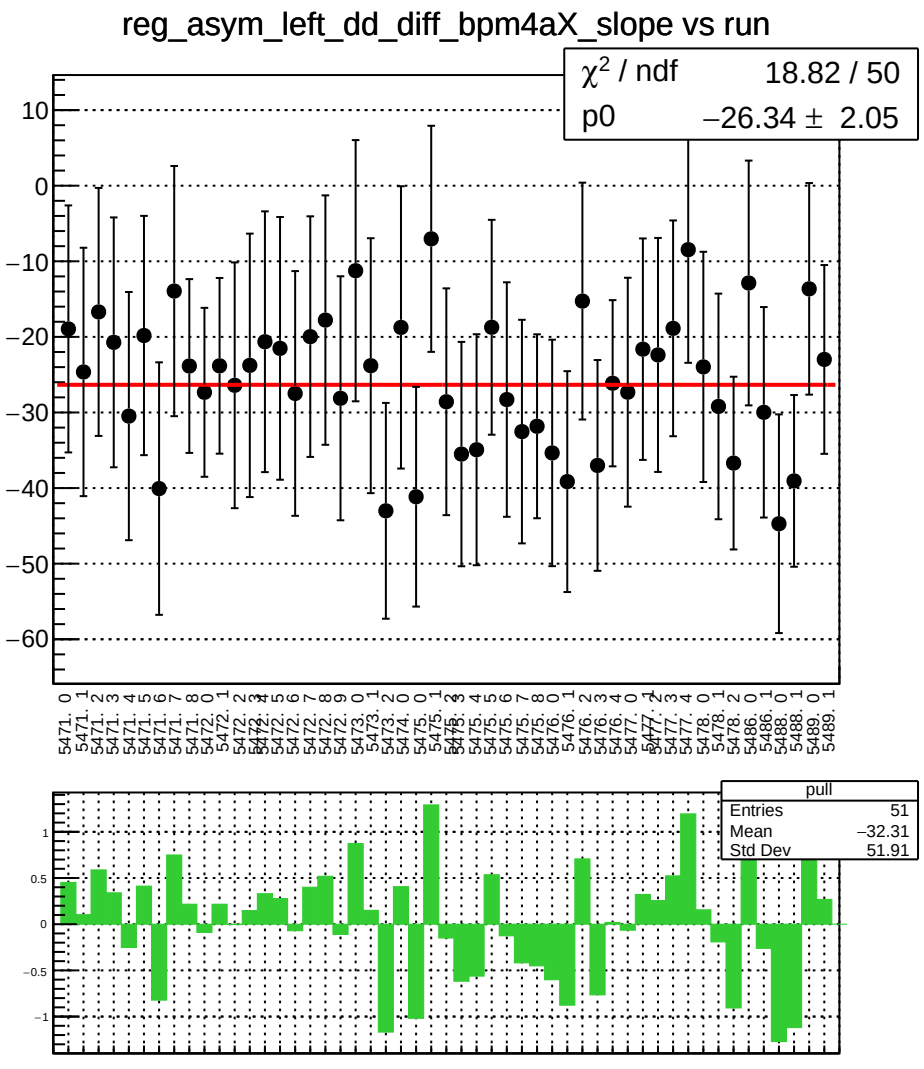

pull1D
Entries 51
Mean −0.02498
Std Dev 0.6148

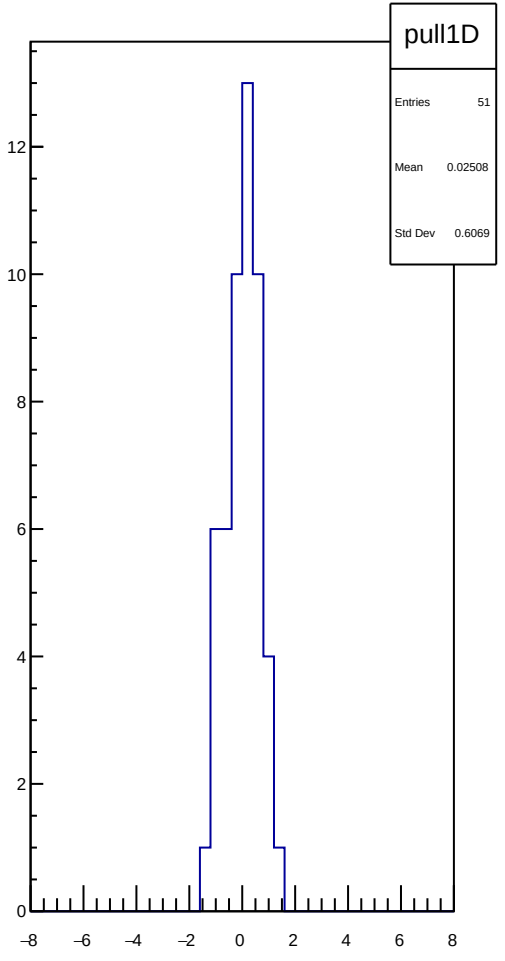

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.26 / 50
p0 5.969 ± 1.438
pull
Entries 51
Mean −13.42
Std Dev 35.31

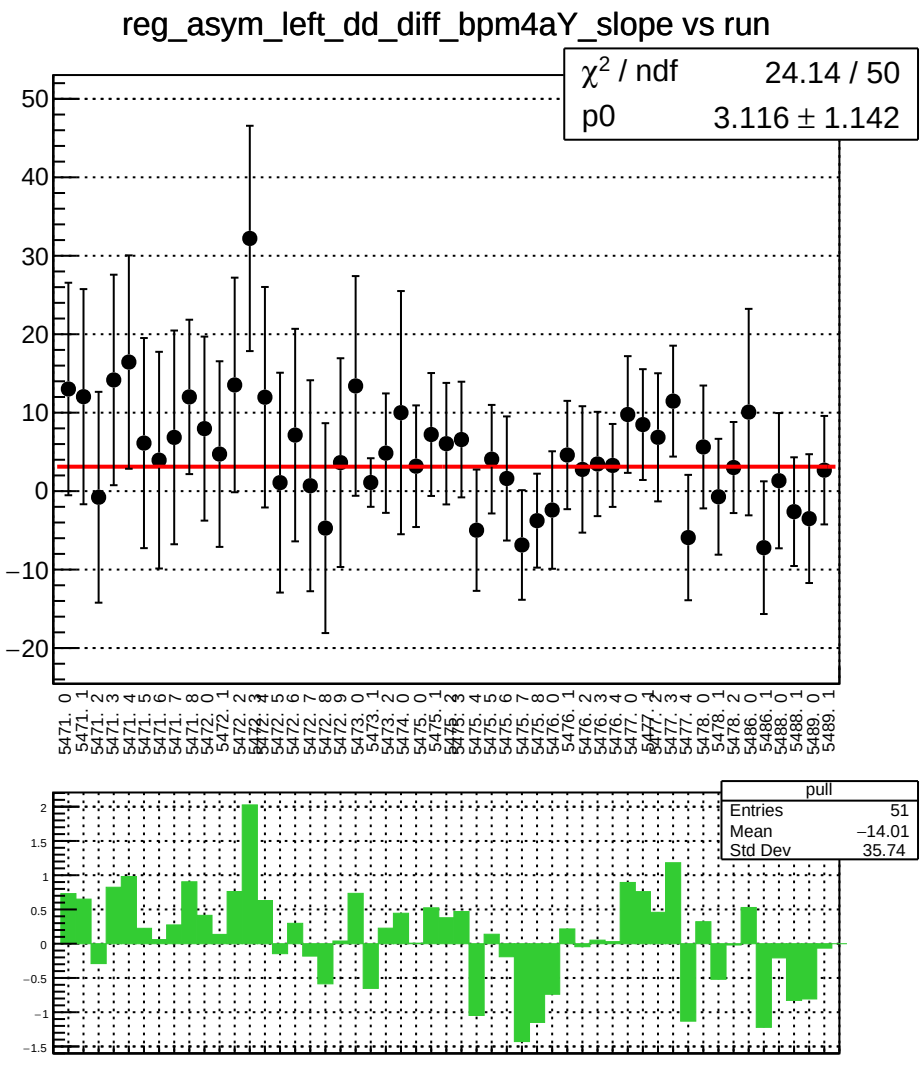

pull1D
Entries 51
Mean −0.09896
Std Dev 0.6967

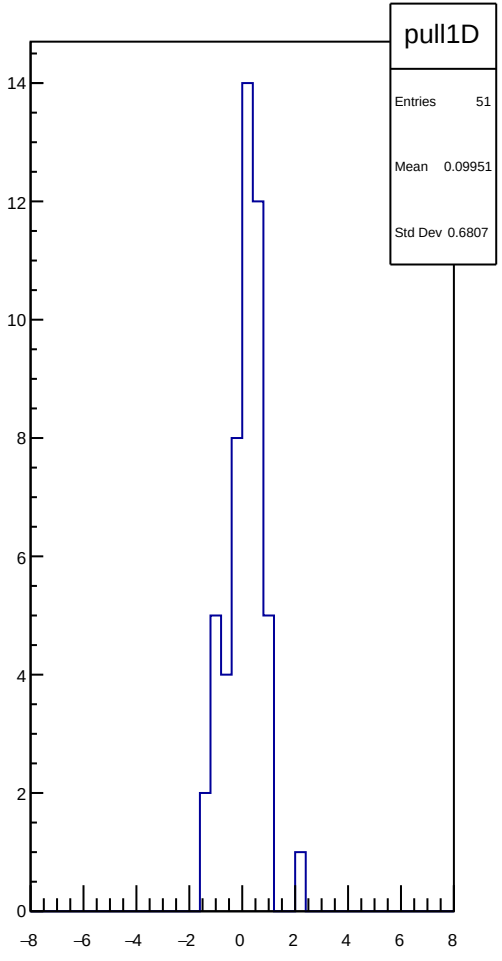

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 342.4 / 50
p0 −19.1 ± 0.05031
pull
Entries 51
Mean −413.6
Std Dev 445.1

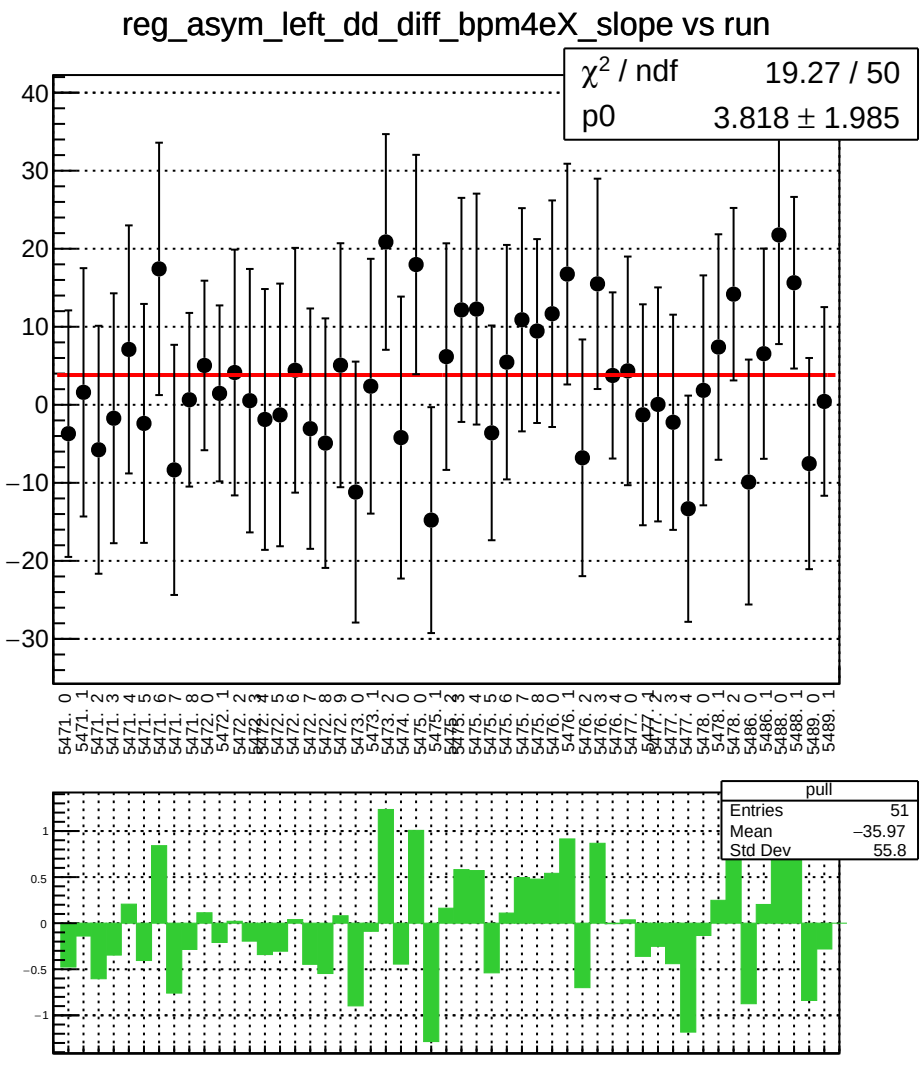

pull1D
Entries 51
Mean −0.02278
Std Dev 2.591

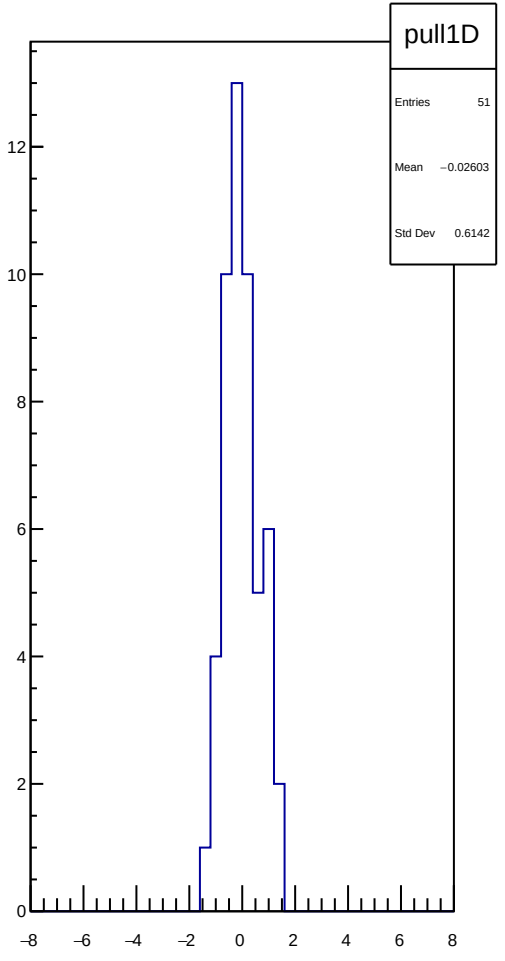

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.82 / 50
p0 −26.34 ± 2.05
pull
Entries 51
Mean −32.31
Std Dev 51.91

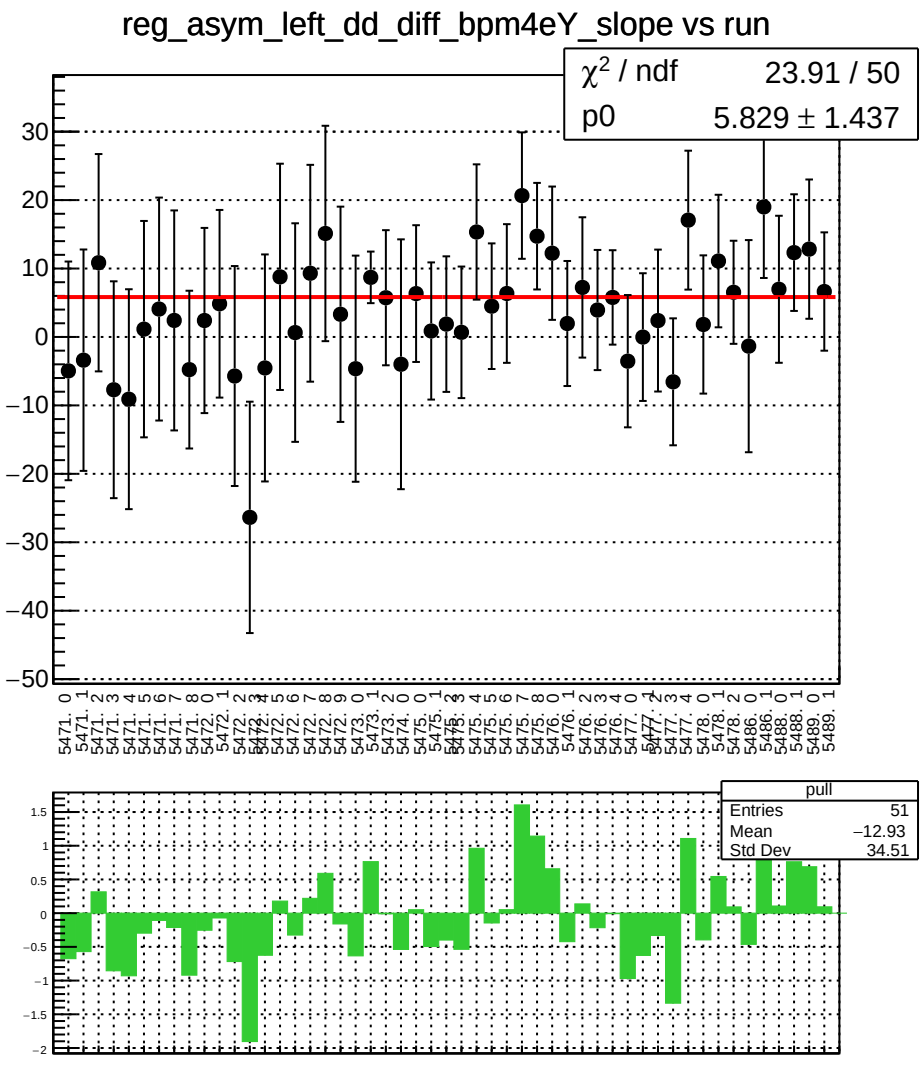

pull1D
Entries 51
Mean 0.02508
Std Dev 0.6069

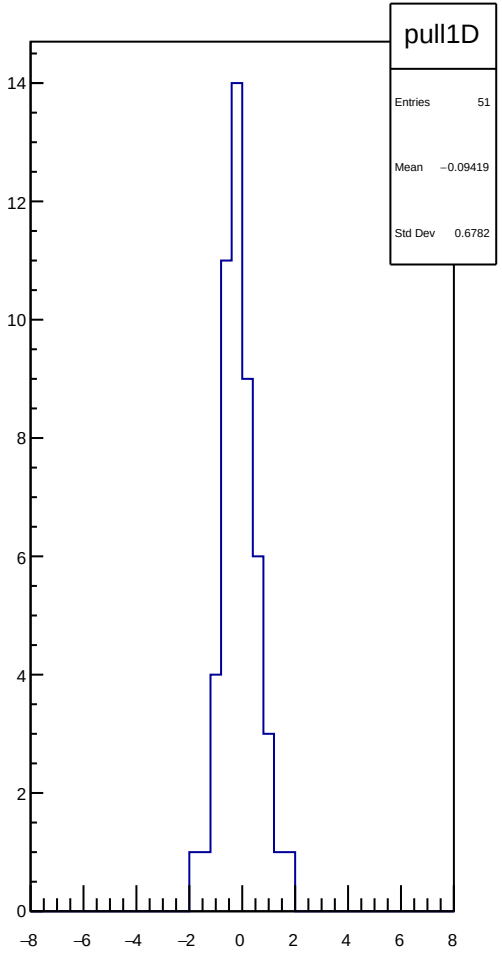

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.14 / 50
p0 3.116 ± 1.142
pull
Entries 51
Mean −14.01
Std Dev 35.74

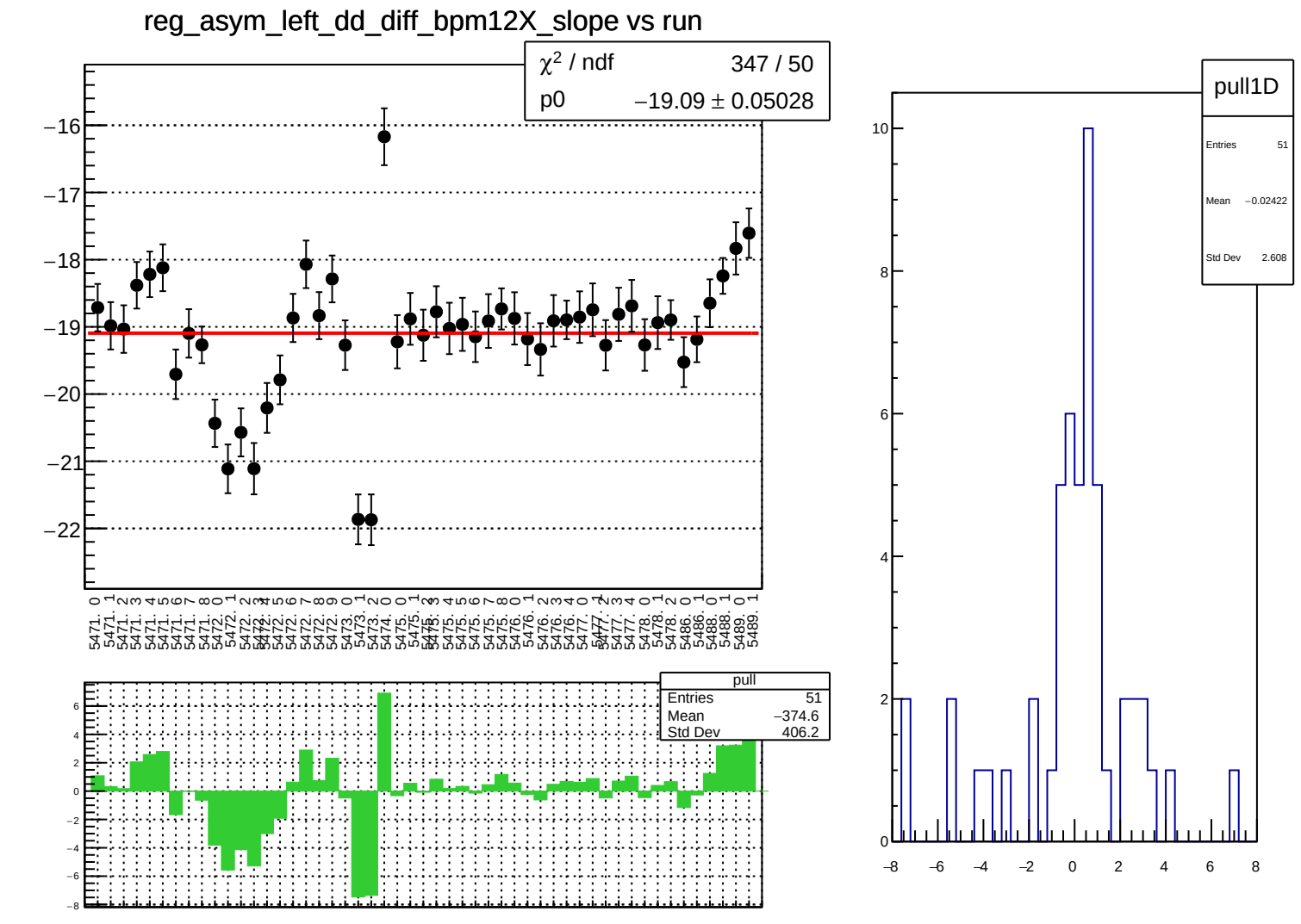

pull1D
Entries 51
Mean 0.09951
Std Dev 0.6807

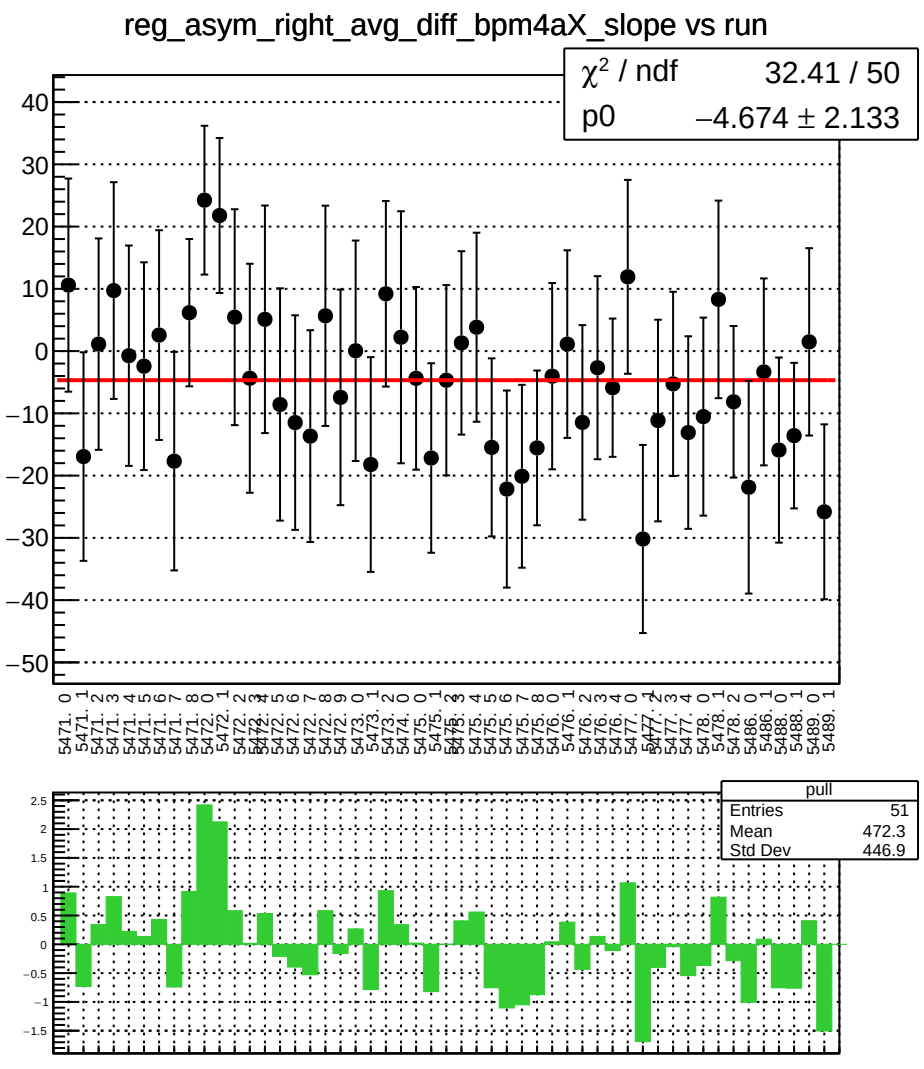

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.27 / 50
p0 3.818 ± 1.985
pull
Entries 51
Mean −35.97
Std Dev 55.8

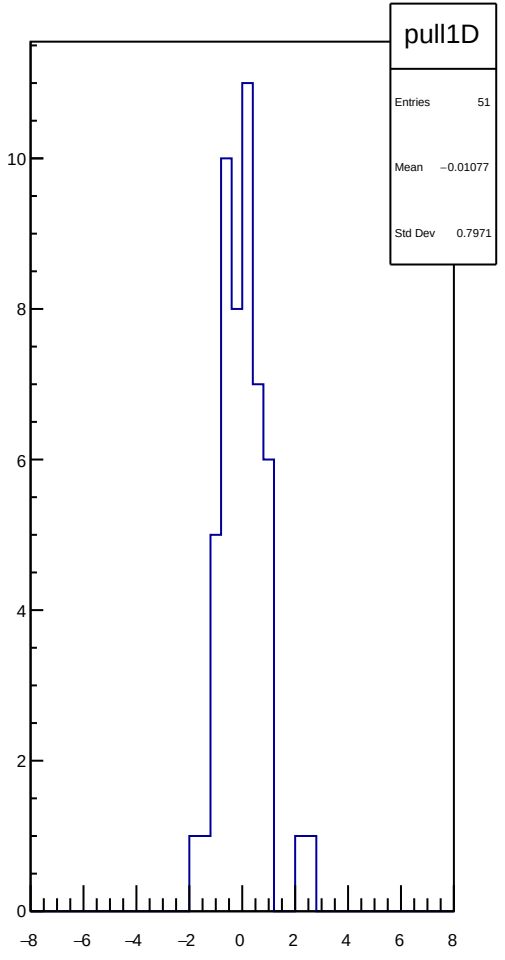

pull1D
Entries 51
Mean −0.02603
Std Dev 0.6142

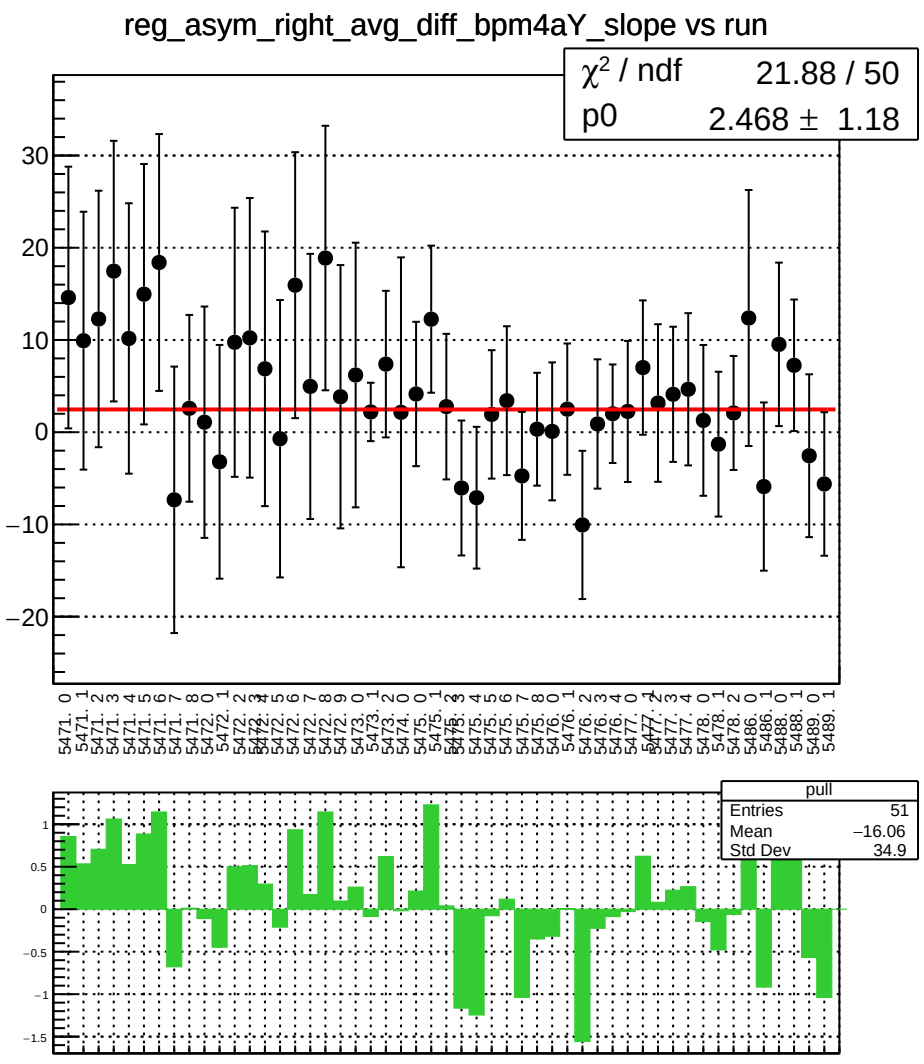

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.91 / 50
p0 5.829 ± 1.437
pull
Entries 51
Mean −12.93
Std Dev 34.51

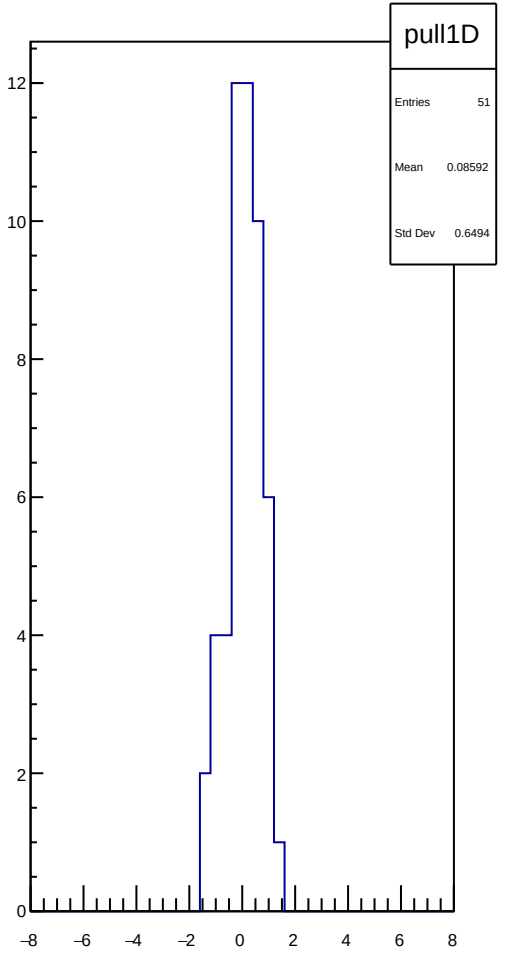

pull1D
Entries 51
Mean −0.09419
Std Dev 0.6782

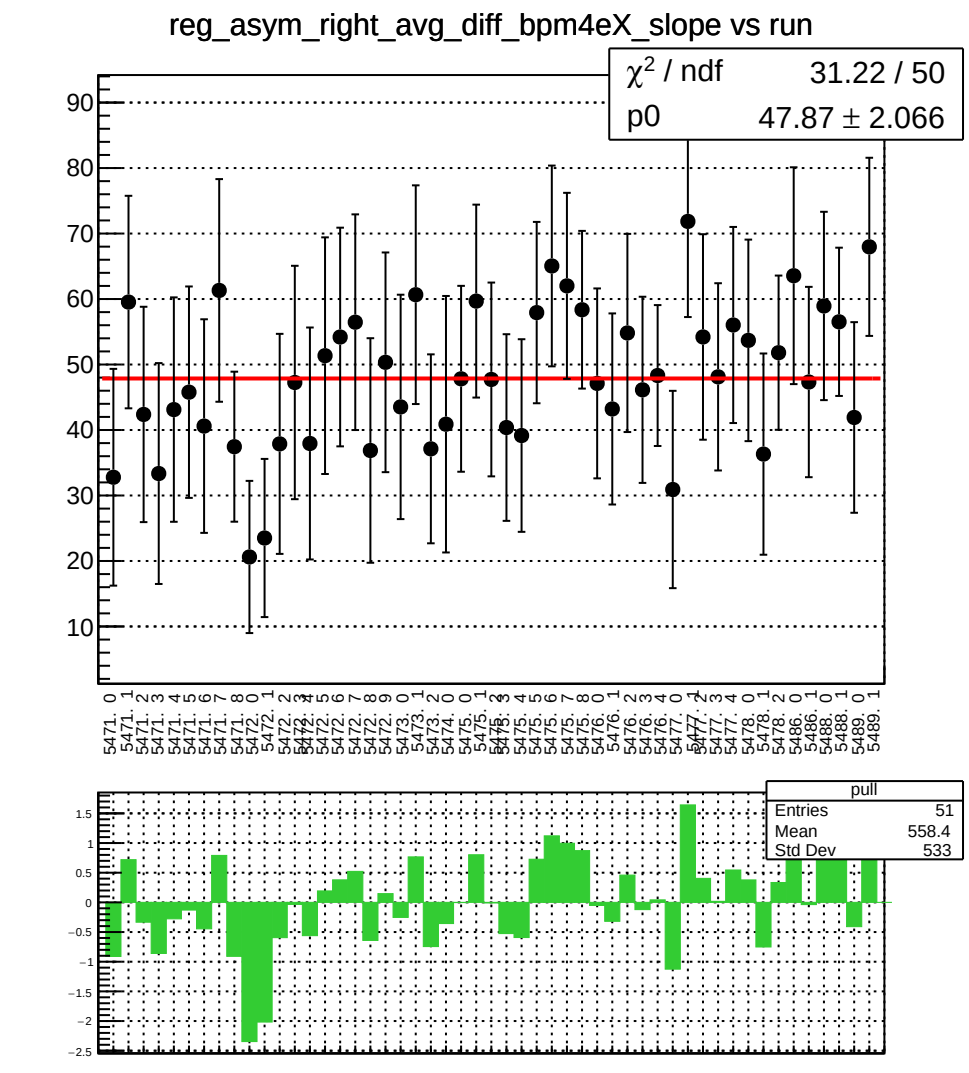

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 347 / 50
p0 −19.09 ± 0.05028
pull
Entries 51
Mean −374.6
Std Dev 406.2
pull1D
Entries 51
Mean −0.02422
Std Dev 2.608

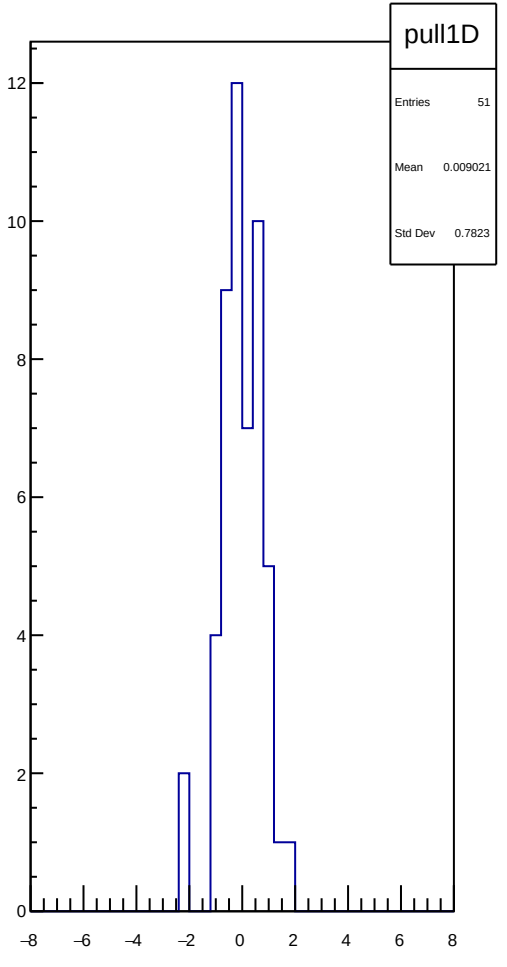

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 32.41 / 50
p0 −4.674 ± 2.133
pull
Entries 51
Mean 472.3
Std Dev 446.9

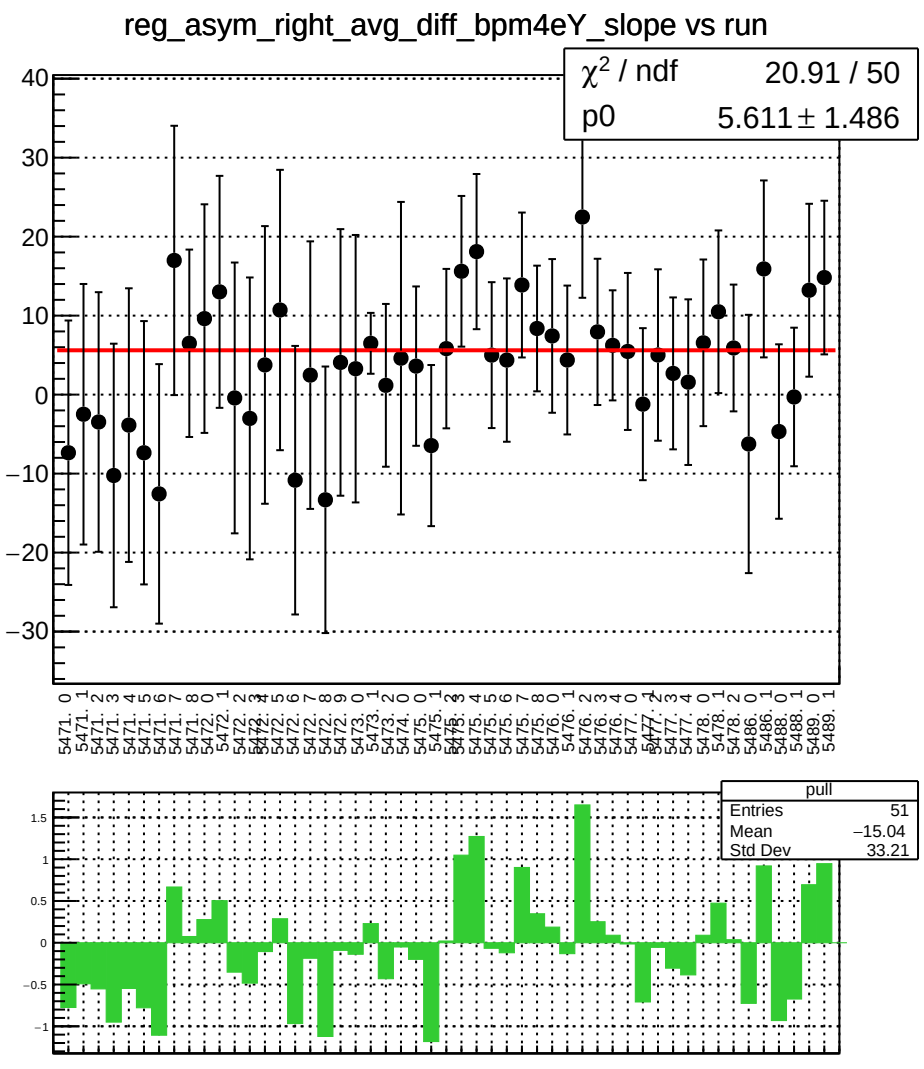

pull1D
Entries 51
Mean −0.01077
Std Dev 0.7971

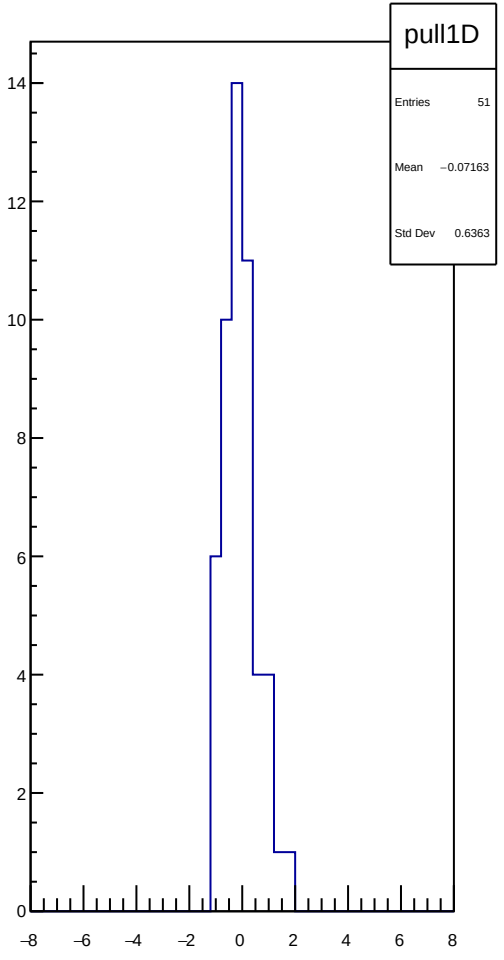

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.88 / 50
p0 2.468 ± 1.18
pull
Entries 51
Mean −16.06
Std Dev 34.9

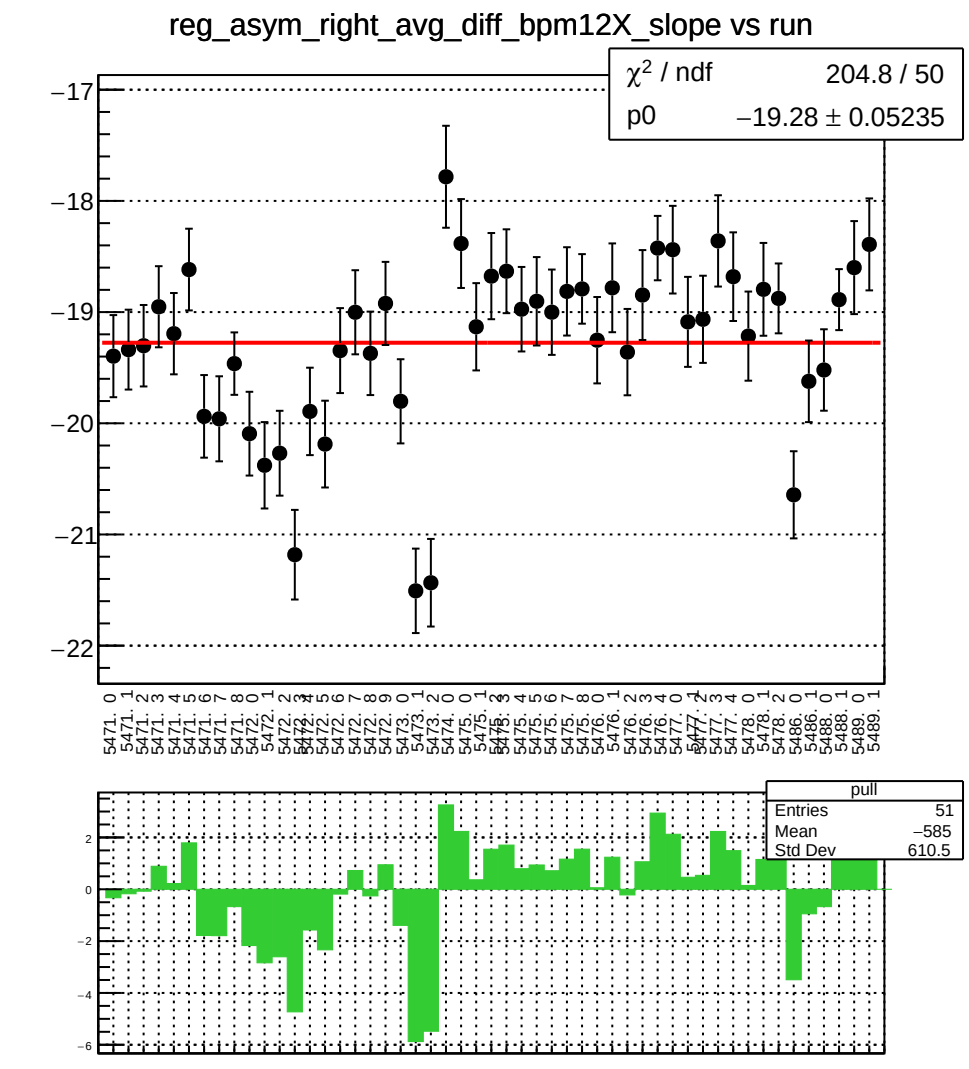

pull1D
Entries 51
Mean 0.08592
Std Dev 0.6494

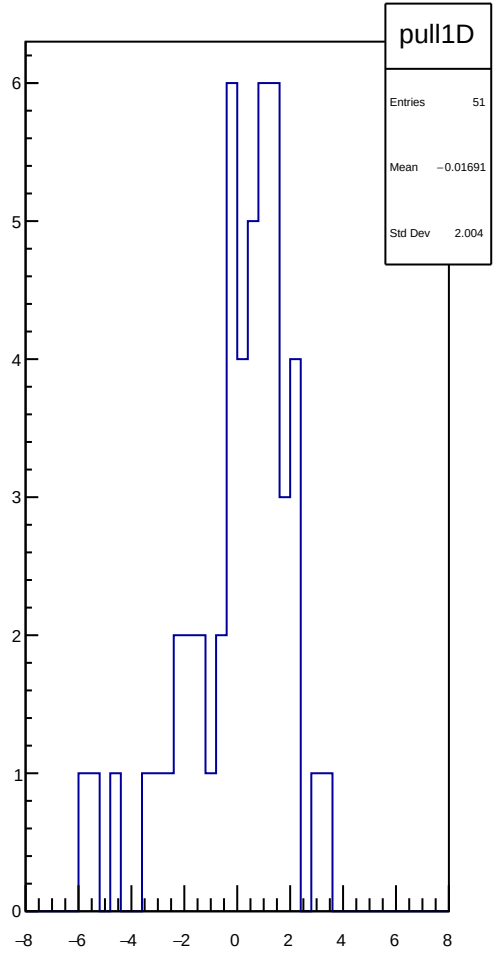

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.22 / 50
p0 47.87 ± 2.066
pull
Entries 51
Mean 558.4
Std Dev 533

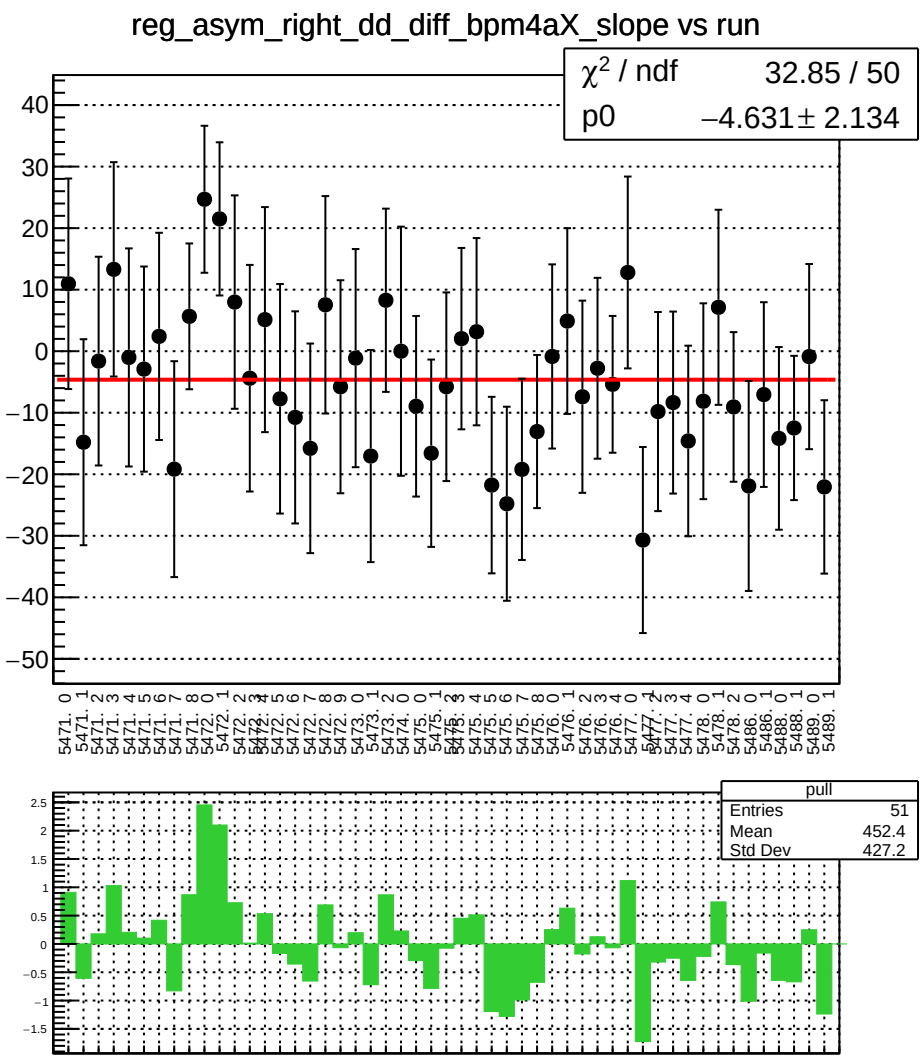

pull1D
Entries 51
Mean 0.009021
Std Dev 0.7823

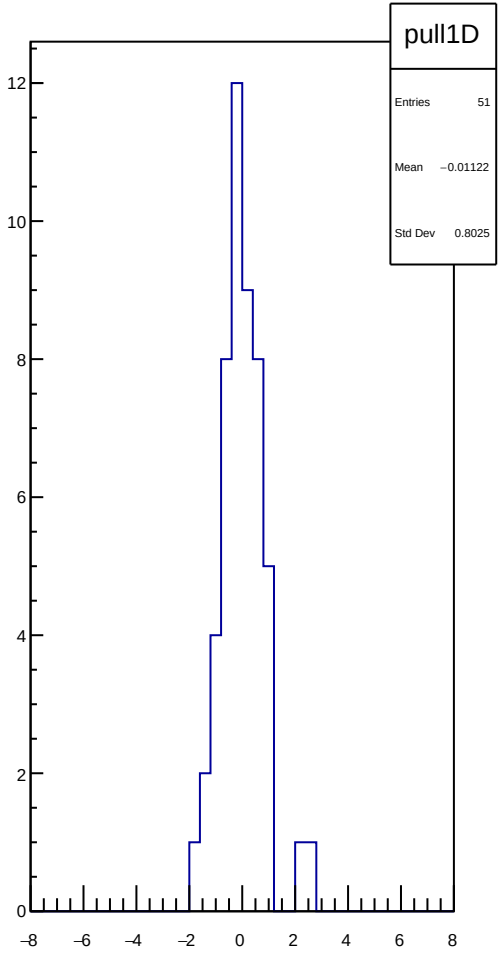

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.91 / 50
p0 5.611 ± 1.486
pull
Entries 51
Mean −15.04
Std Dev 33.21

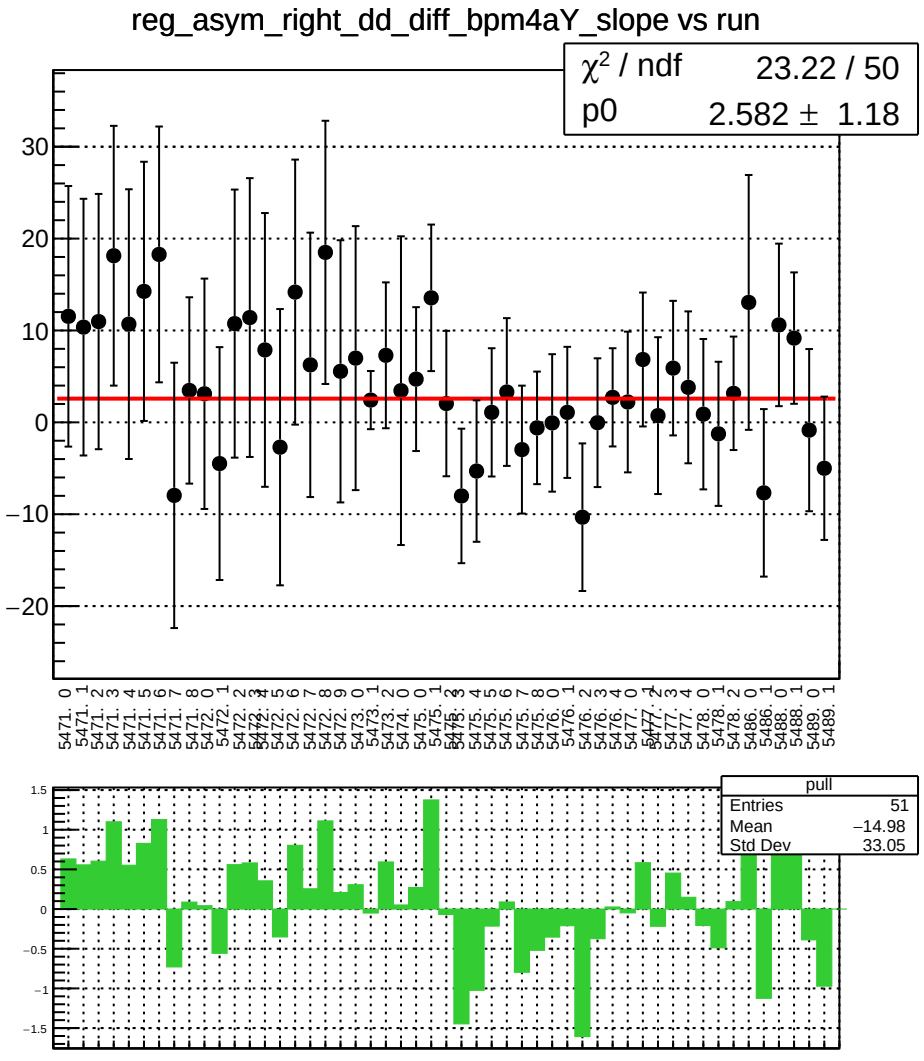

pull1D
Entries 51
Mean −0.07163
Std Dev 0.6363

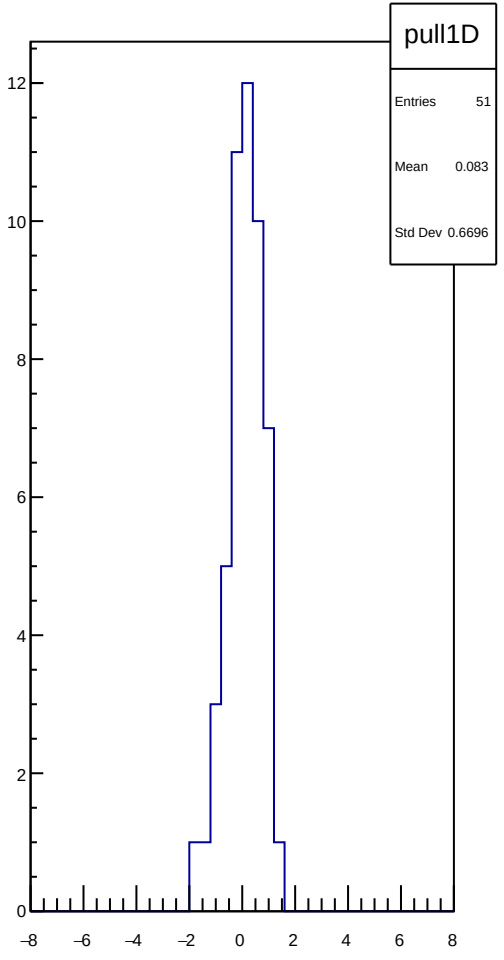

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 204.8 / 50
p0 −19.28 ± 0.05235
pull
Entries 51
Mean −585
Std Dev 610.5

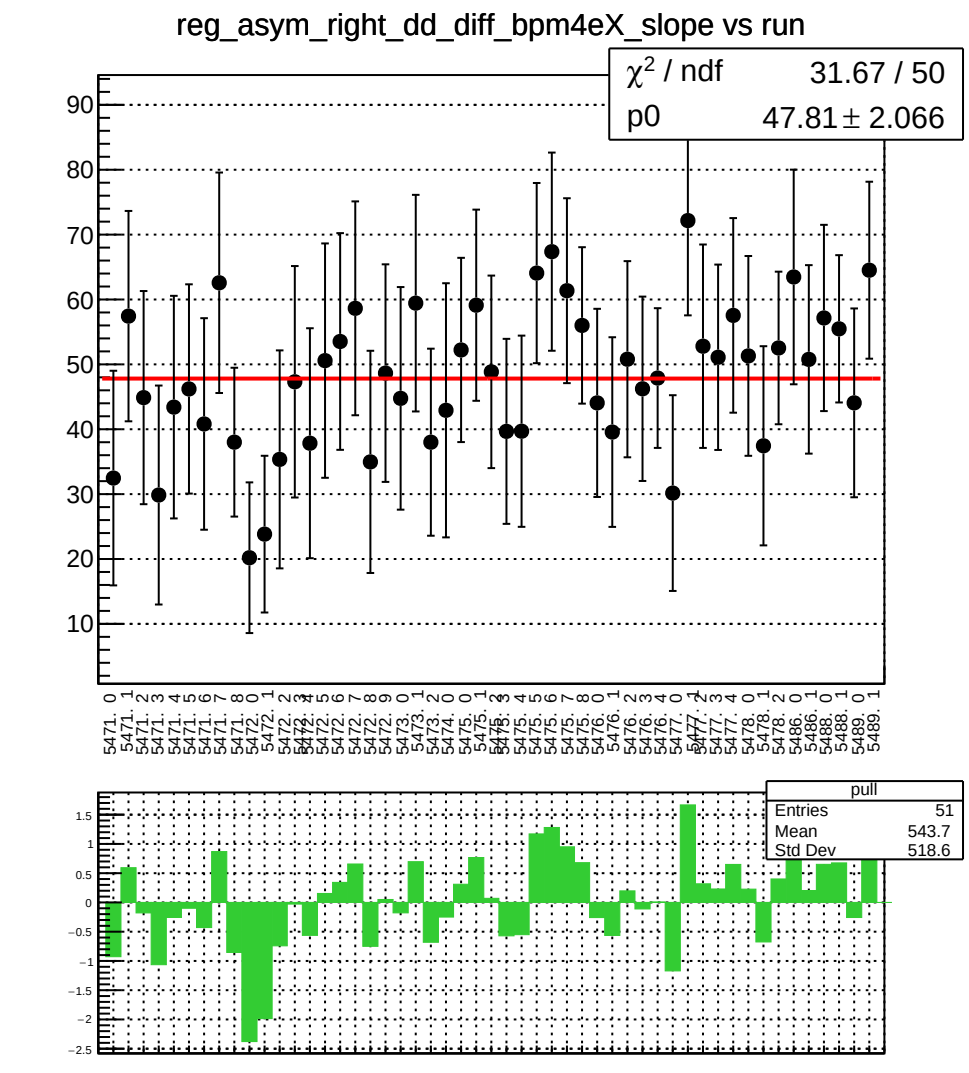

pull1D
Entries 51
Mean −0.01691
Std Dev 2.004

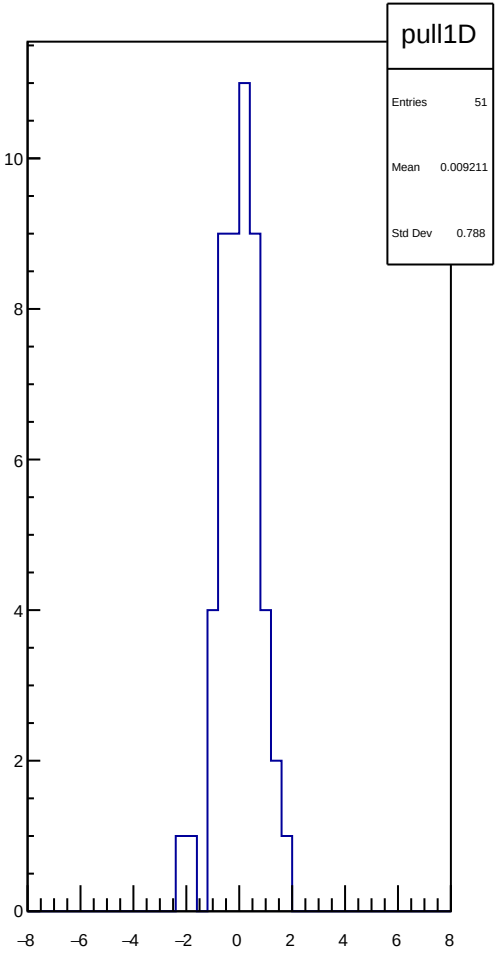

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 32.85 / 50
p0 −4.631 ± 2.134
pull
Entries 51
Mean 452.4
Std Dev 427.2

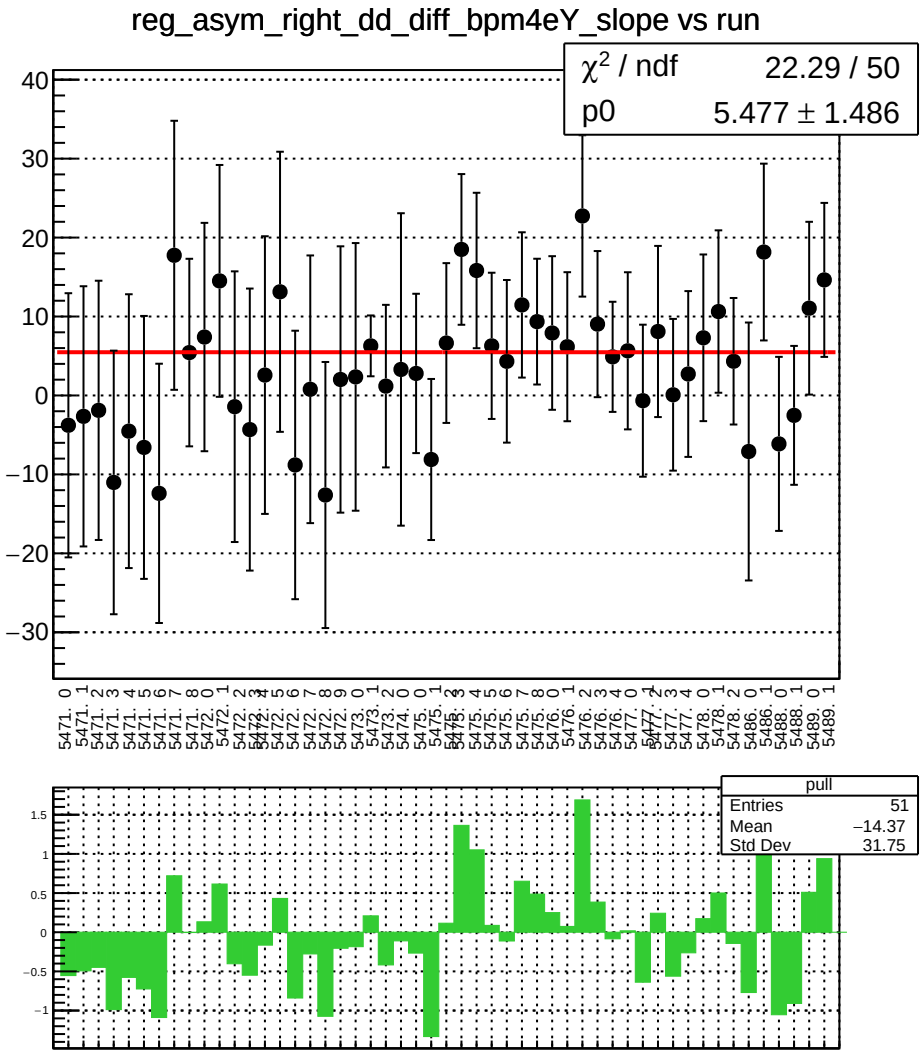

pull1D
Entries 51
Mean −0.01122
Std Dev 0.8025

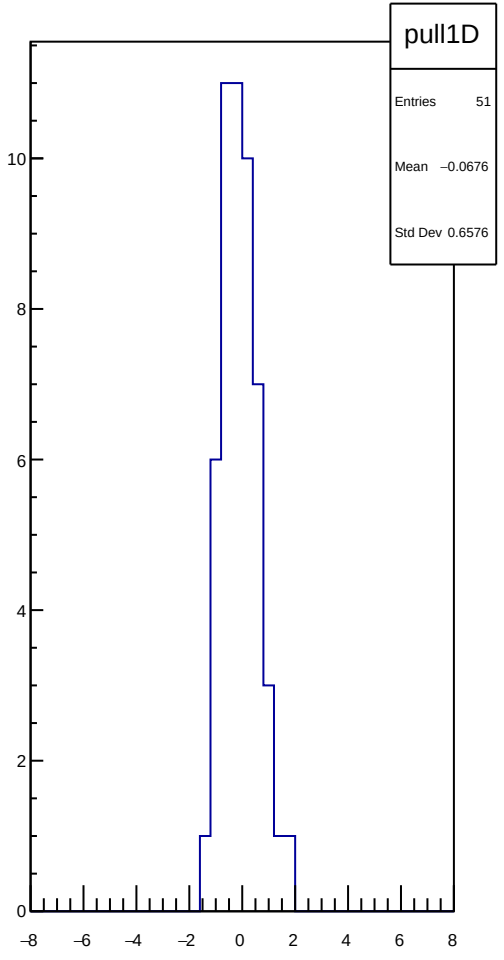

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.22 / 50
p0 2.582 ± 1.18
pull
Entries 51
Mean −14.98
Std Dev 33.05

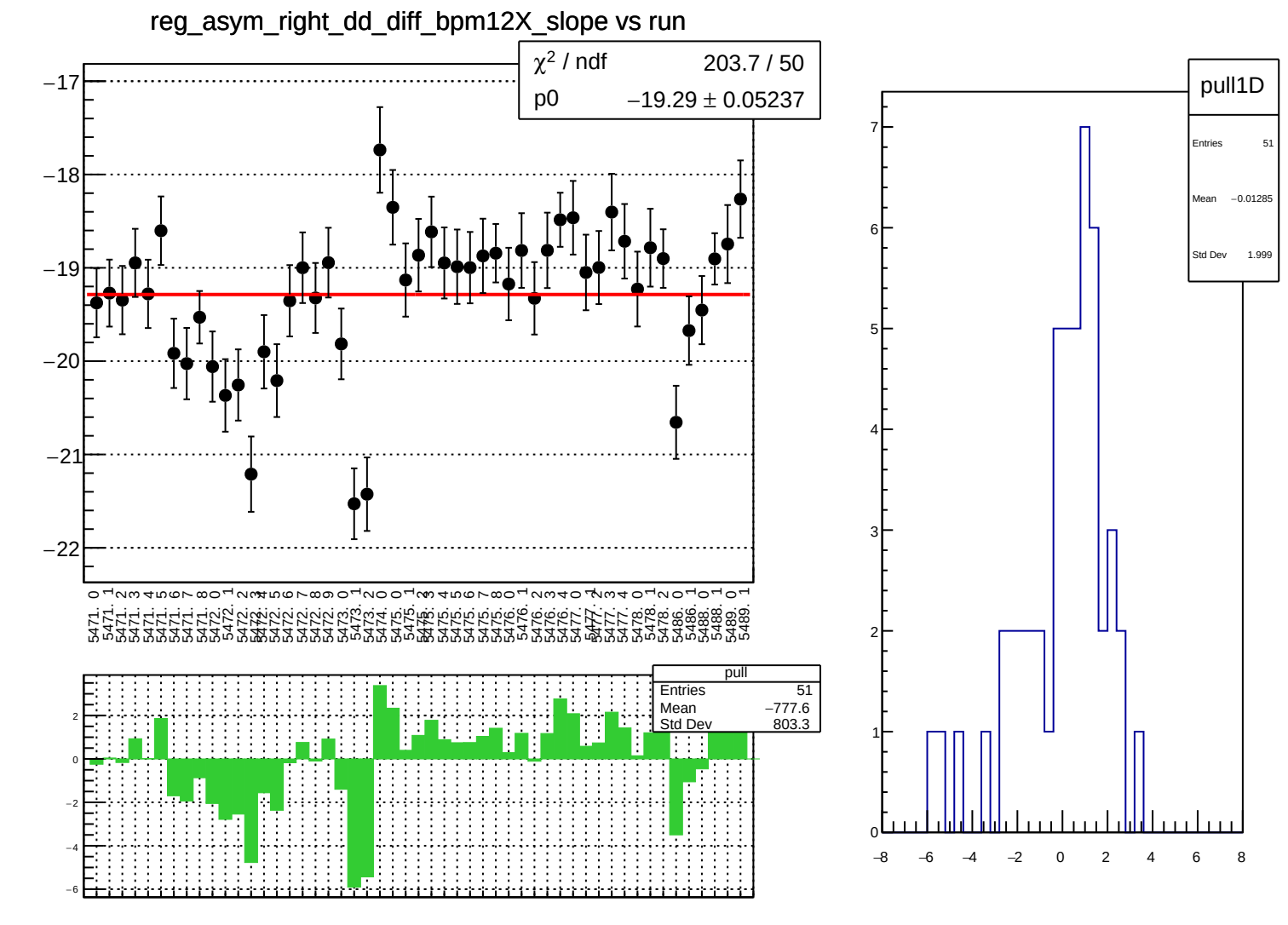

pull1D
Entries 51
Mean 0.083
Std Dev 0.6696

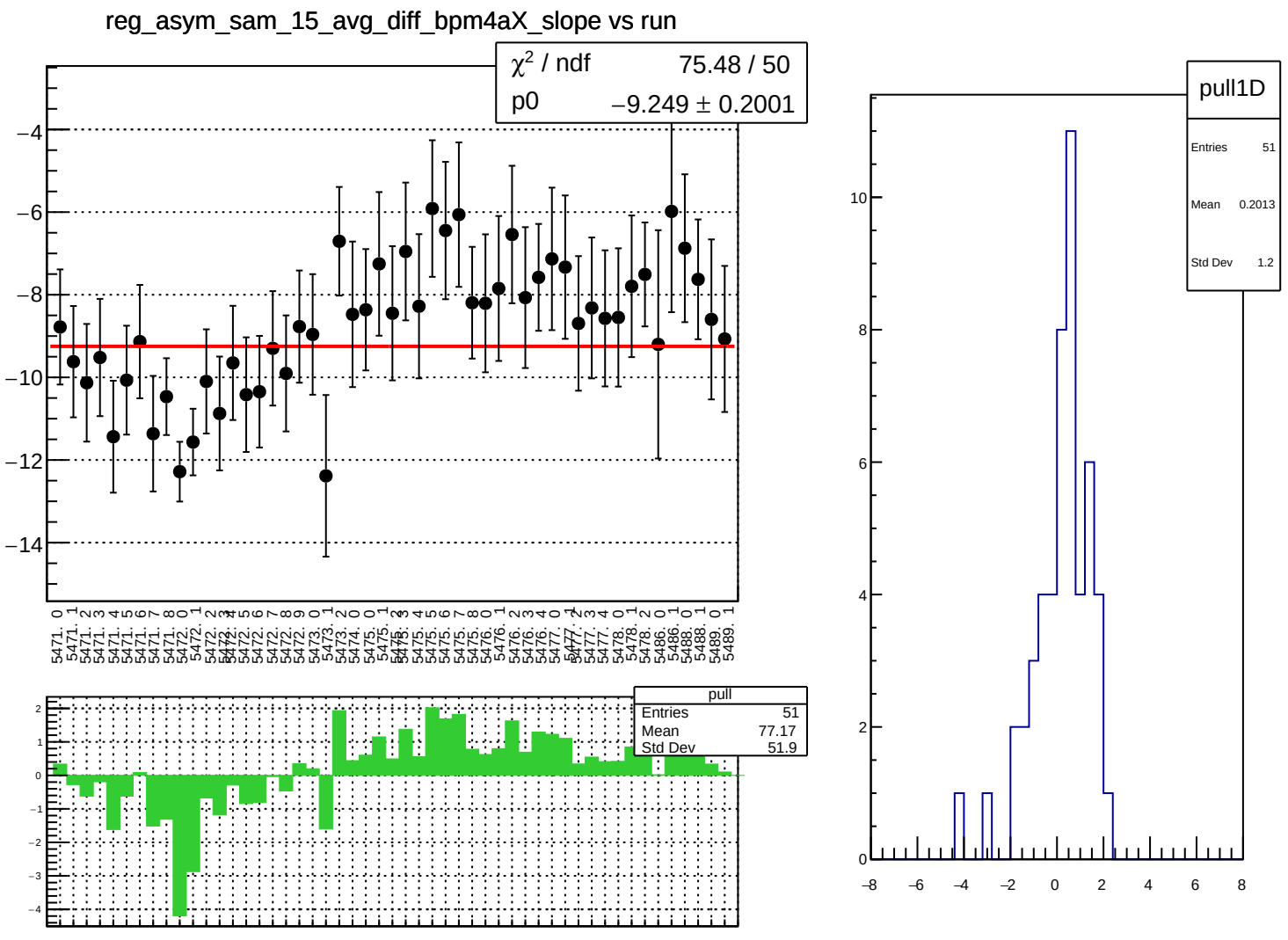

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 31.67 / 50
p0 47.81 ± 2.066
pull
Entries 51
Mean 543.7
Std Dev 518.6

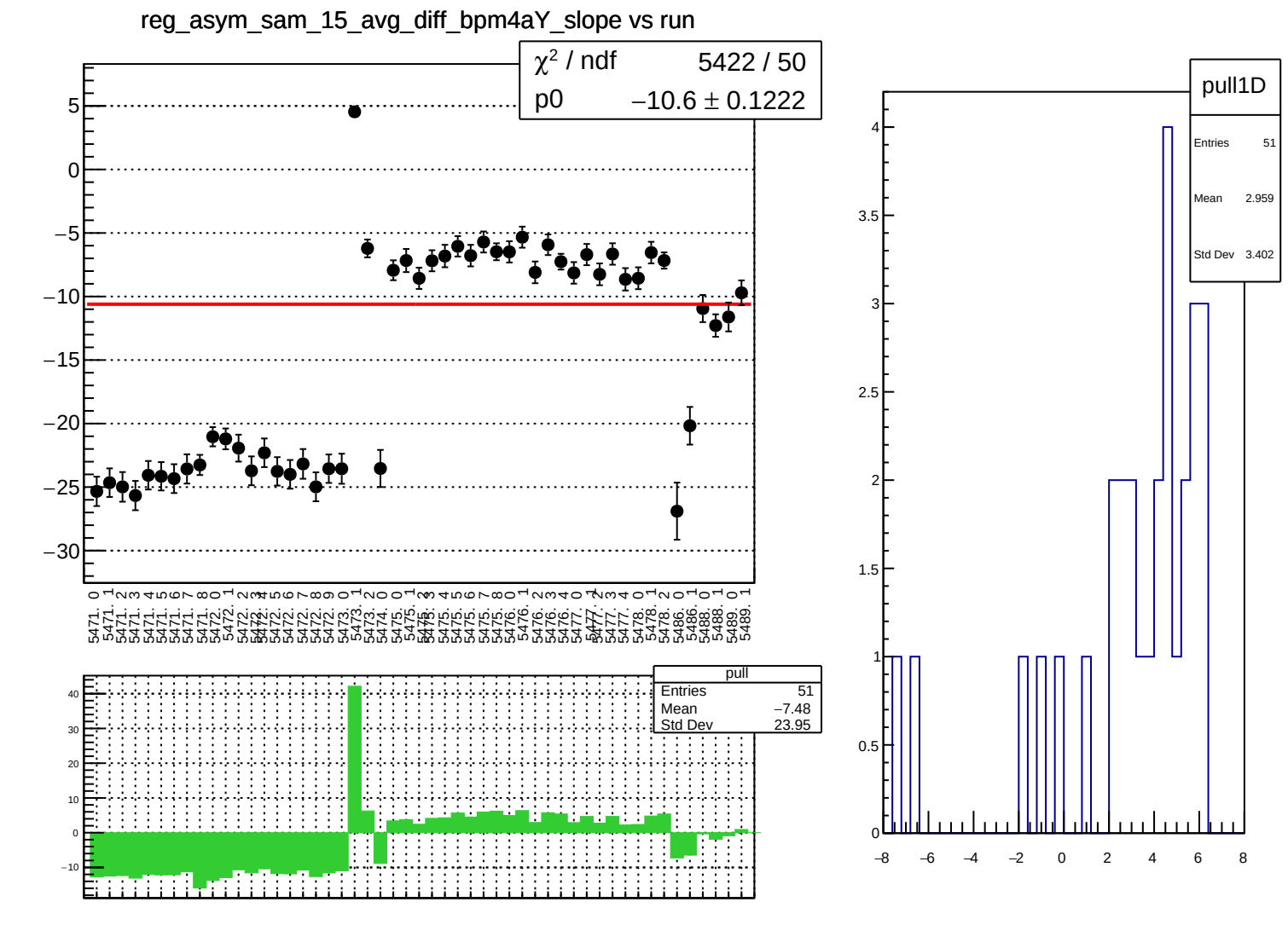

pull1D
Entries 51
Mean 0.009211
Std Dev 0.788

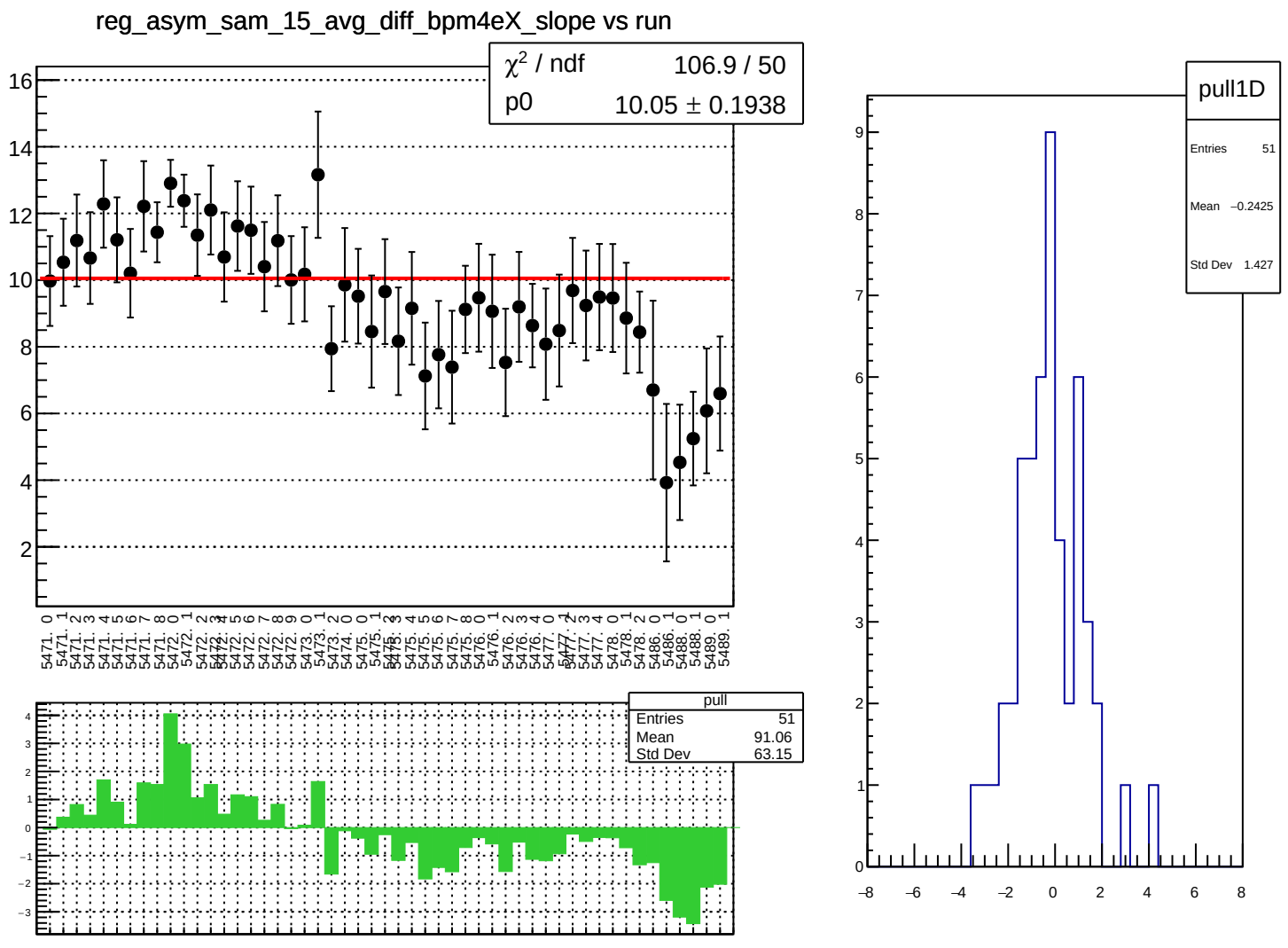

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.29 / 50
p0 5.477 ± 1.486
pull
Entries 51
Mean −14.37
Std Dev 31.75

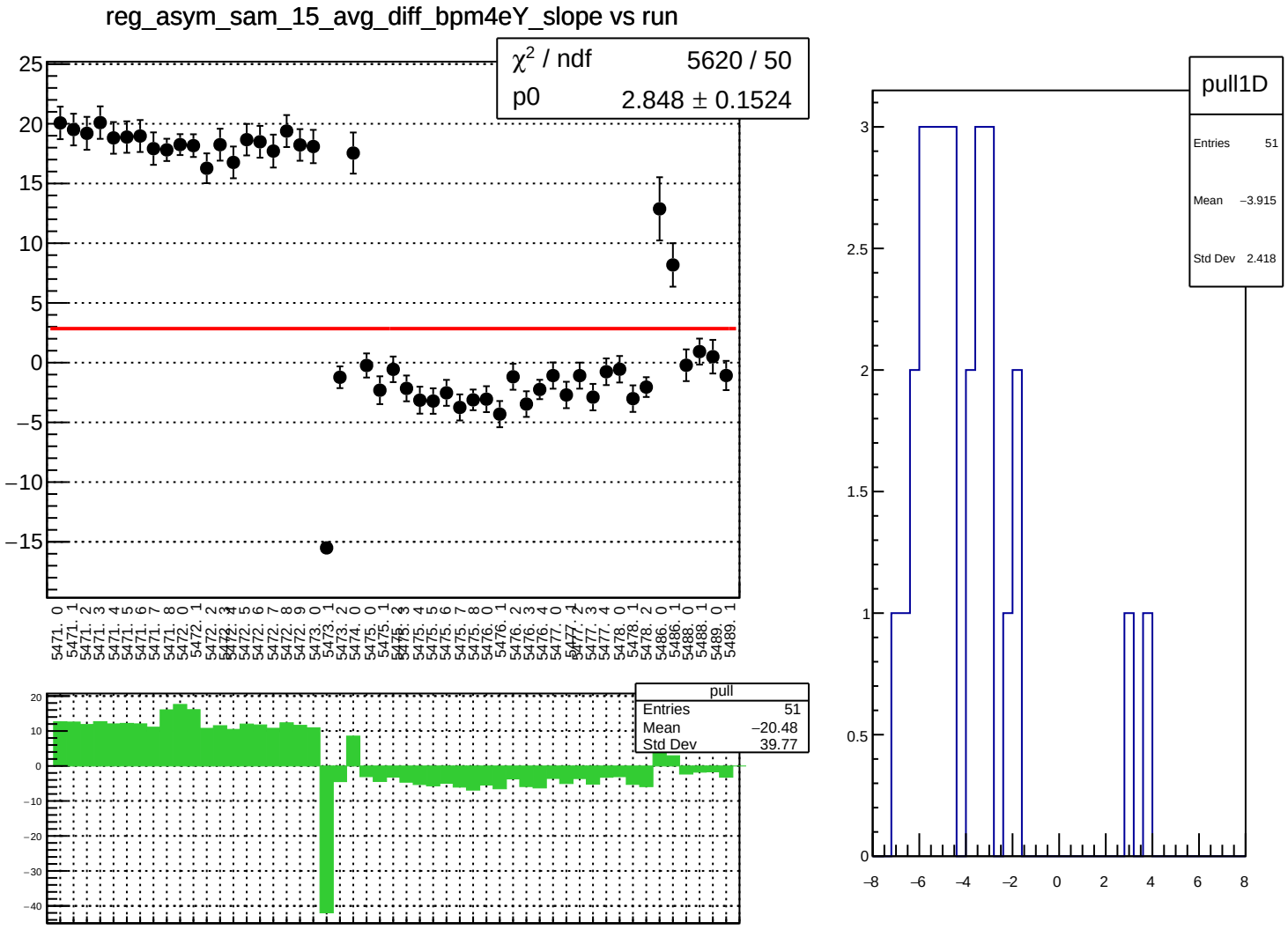

pull1D
Entries 51
Mean −0.0676
Std Dev 0.6576

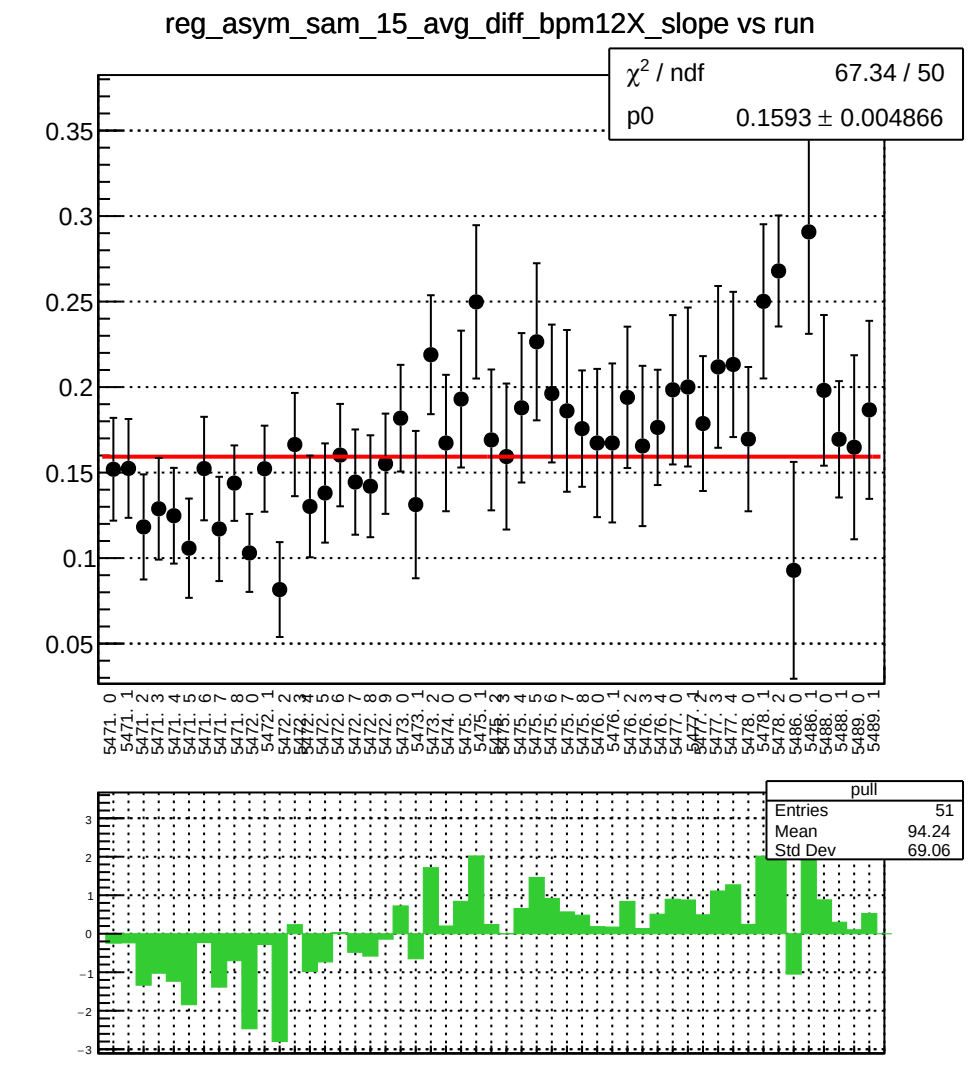

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 203.7 / 50
p0 −19.29 ± 0.05237
pull
Entries 51
Mean −777.6
Std Dev 803.3
pull1D
Entries 51
Mean −0.01285
Std Dev 1.999

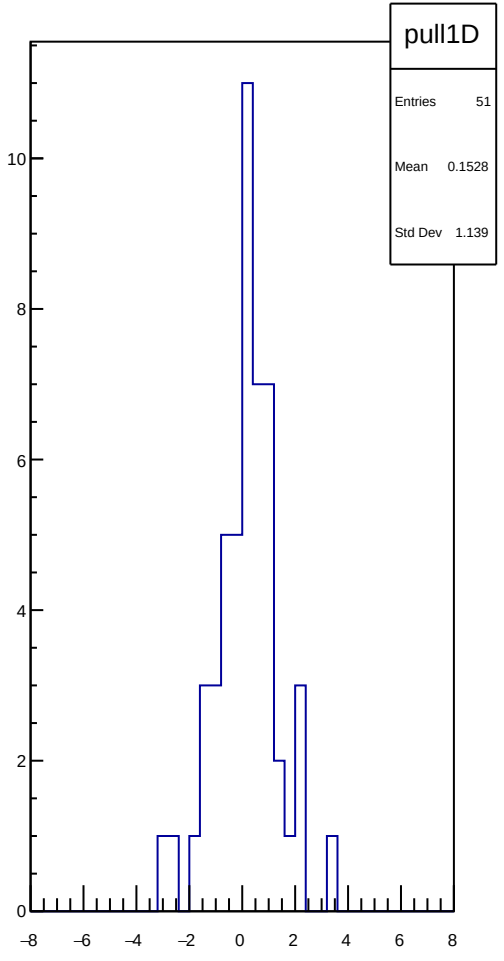

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 75.48 / 50
p0 −9.249 ± 0.2001
pull
Entries 51
Mean 77.17
Std Dev 51.9
pull1D
Entries 51
Mean 0.2013
Std Dev 1.2

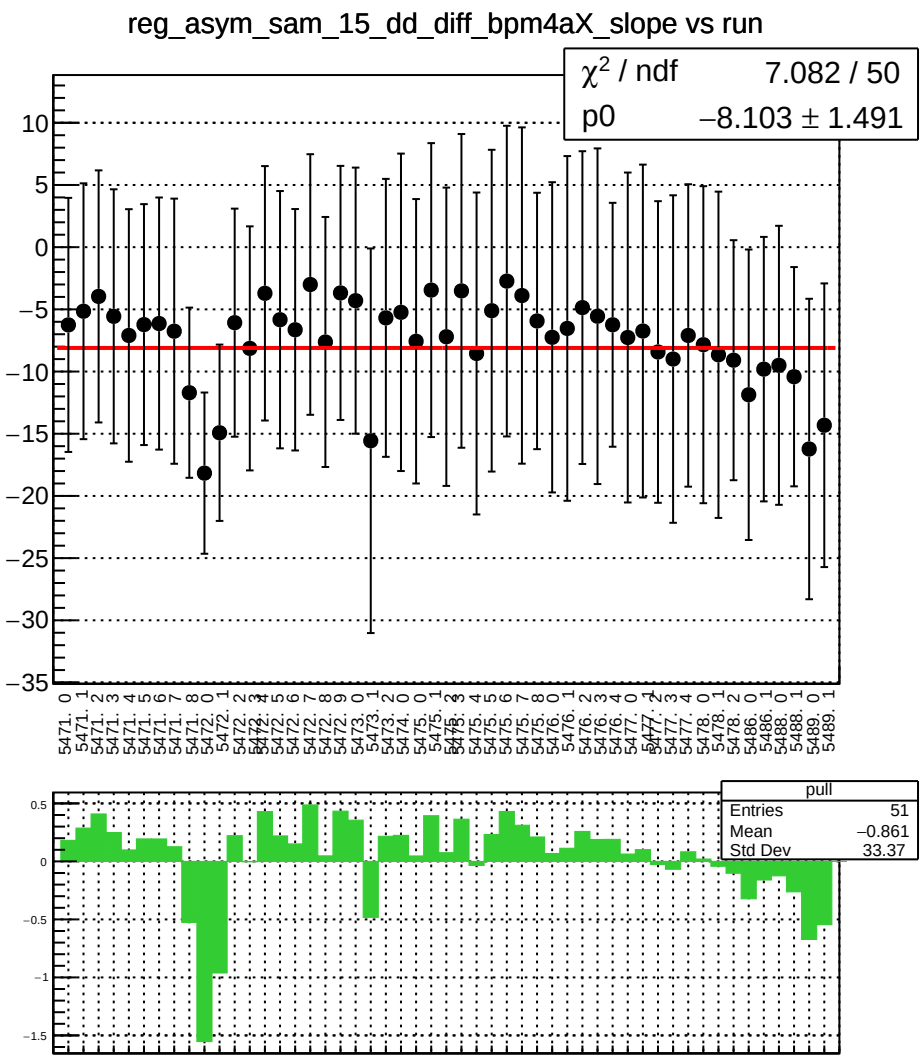

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 5422 / 50
p0 −10.6 ± 0.1222
pull
Entries 51
Mean −7.48
Std Dev 23.95
pull1D
Entries 51
Mean 2.959
Std Dev 3.402

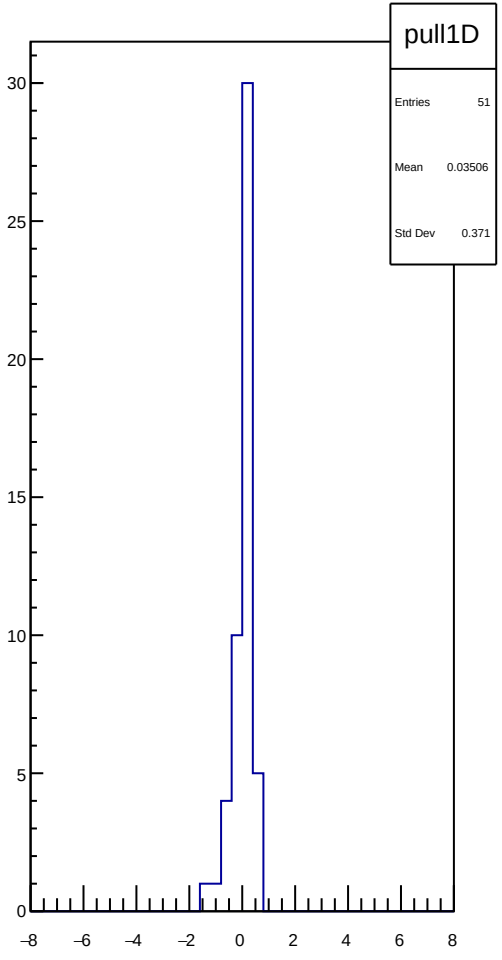

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 106.9 / 50
p0 10.05 ± 0.1938
pull
Entries 51
Mean 91.06
Std Dev 63.15
pull1D
Entries 51
Mean −0.2425
Std Dev 1.427

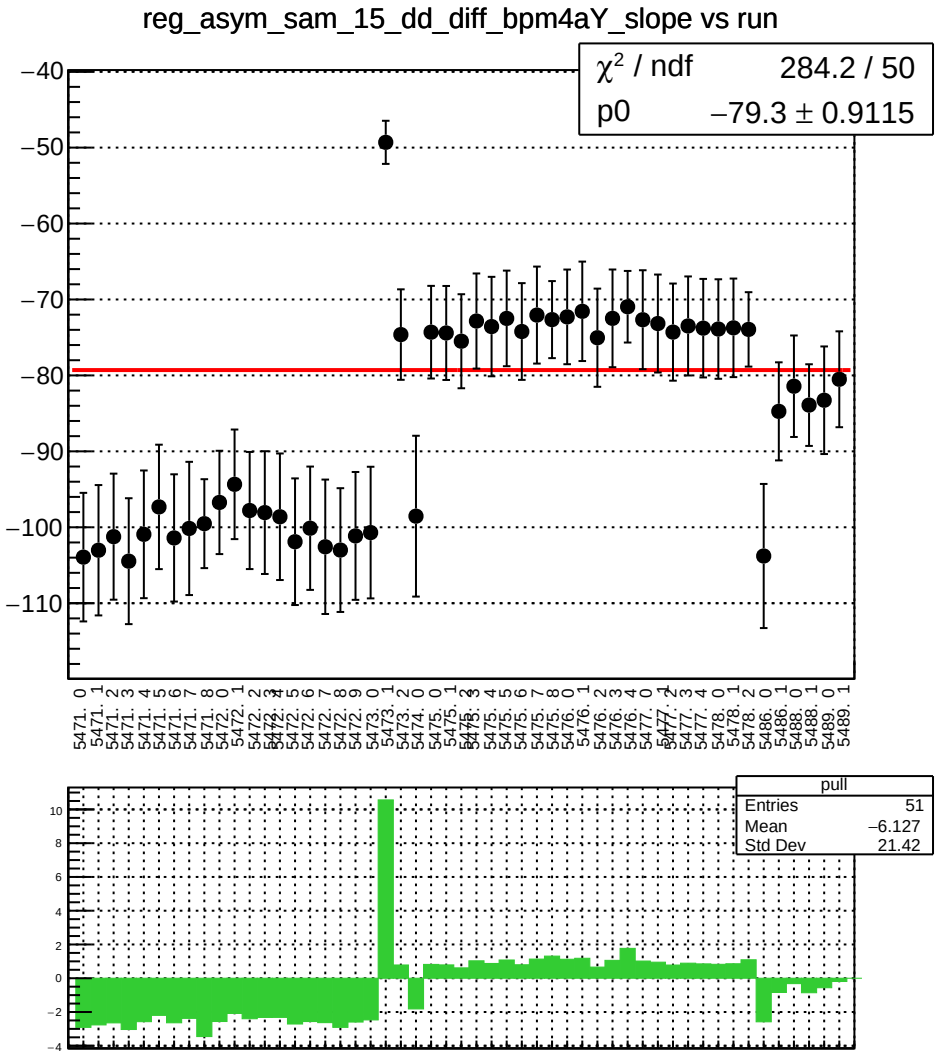

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 5620 / 50
p0 2.848 ± 0.1524
pull
Entries 51
Mean −20.48
Std Dev 39.77
pull1D
Entries 51
Mean −3.915
Std Dev 2.418

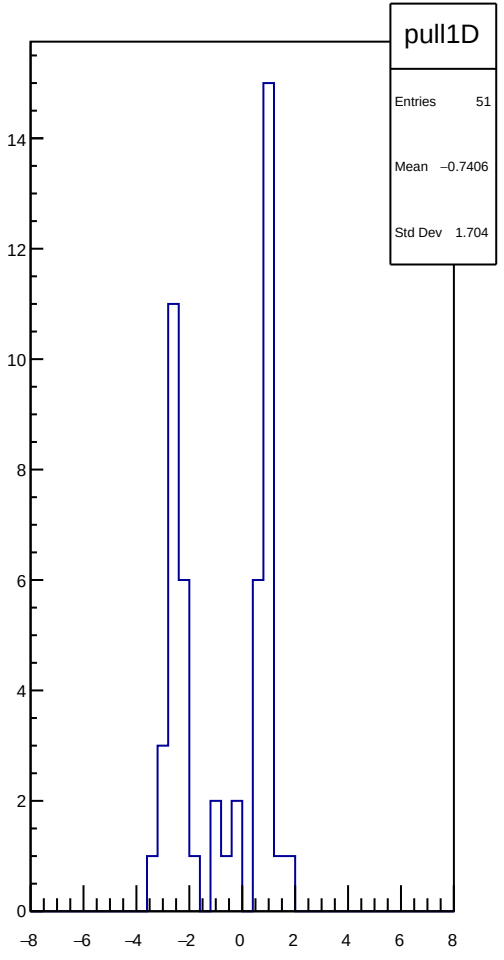

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 67.34 / 50
p0 0.1593 ± 0.004866
pull
Entries 51
Mean 94.24
Std Dev 69.06

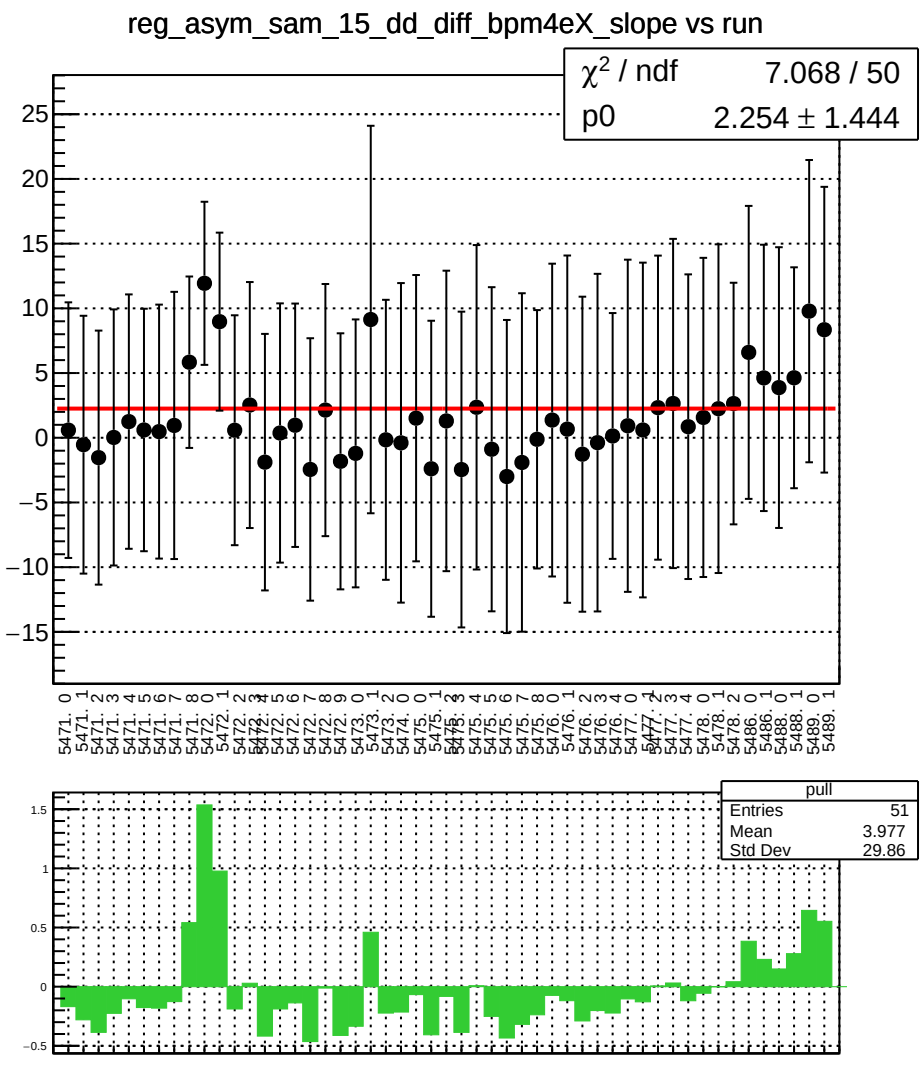

pull1D
Entries 51
Mean 0.1528
Std Dev 1.139

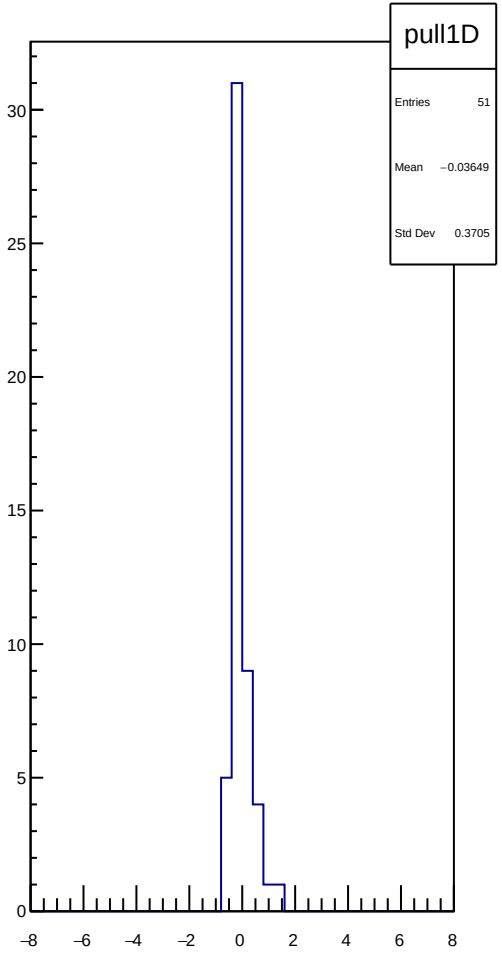

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 7.082 / 50
p0 −8.103 ± 1.491
pull
Entries 51
Mean −0.861
Std Dev 33.37

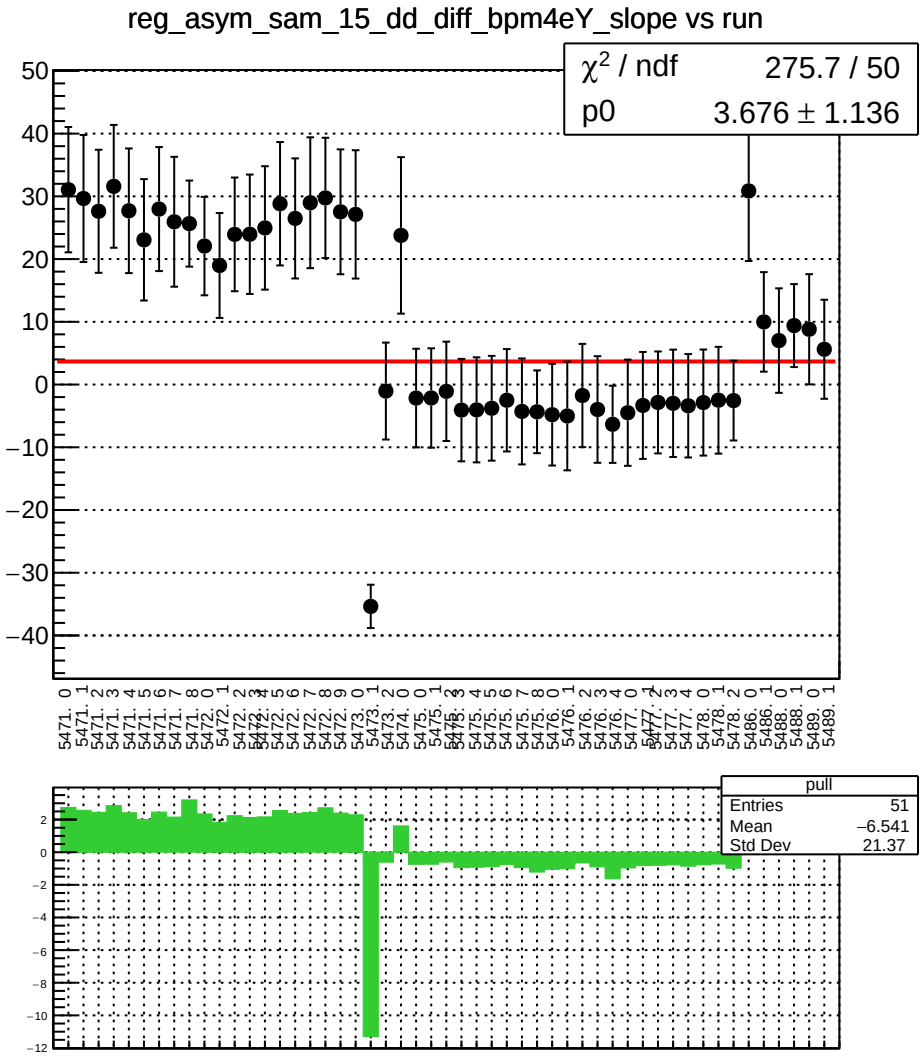

pull1D
Entries 51
Mean 0.03506
Std Dev 0.371

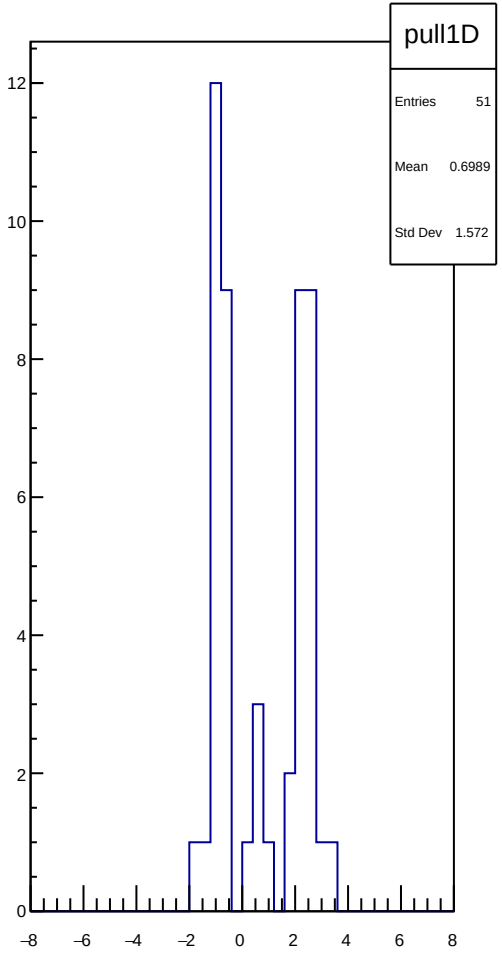

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 284.2 / 50
p0 −79.3 ± 0.9115
pull
Entries 51
Mean −6.127
Std Dev 21.42

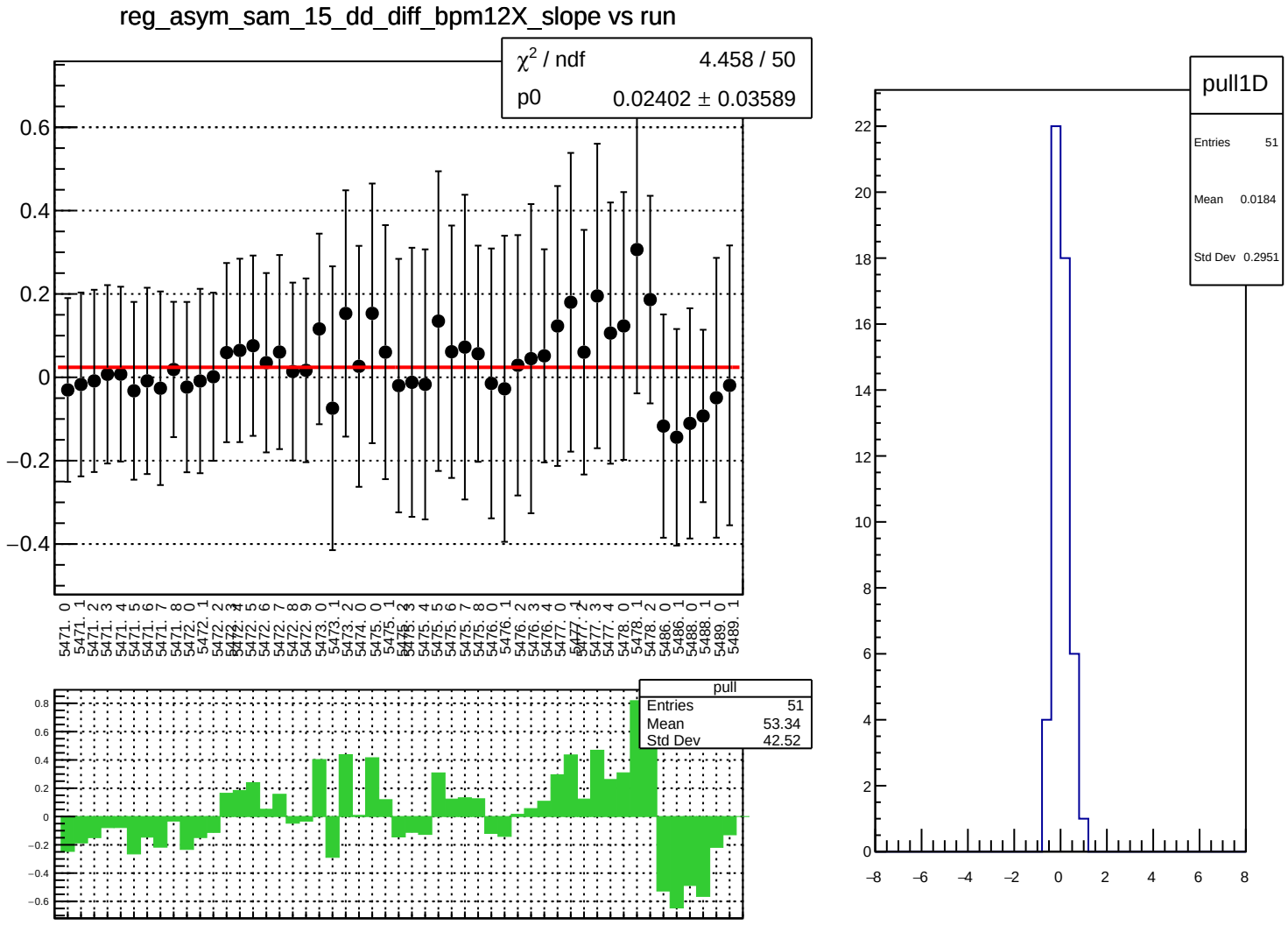

pull1D
Entries 51
Mean −0.7406
Std Dev 1.704

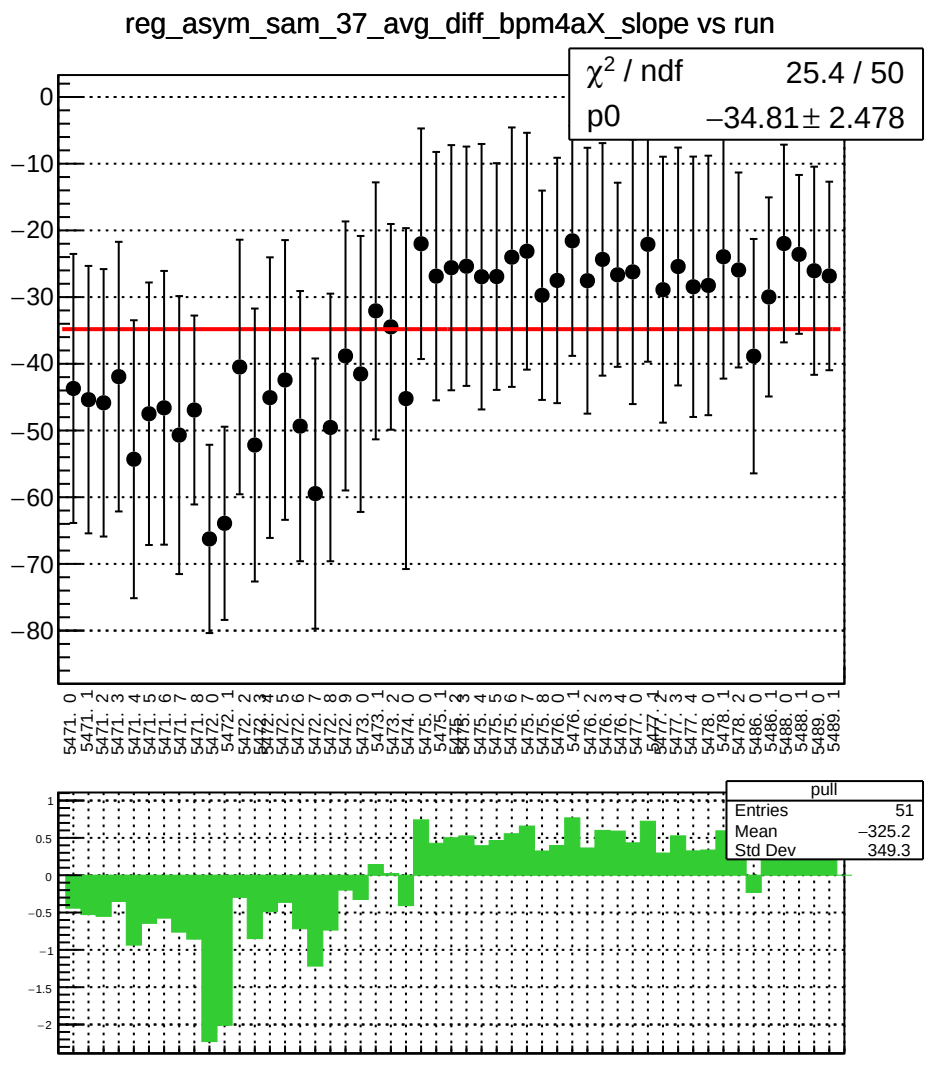

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.068 / 50
p0 2.254 ± 1.444
pull
Entries 51
Mean 3.977
Std Dev 29.86

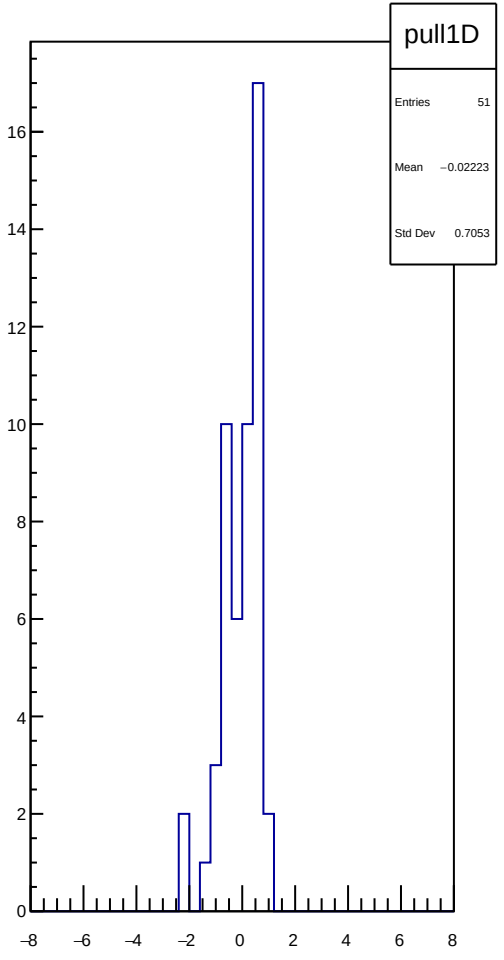

pull1D
Entries 51
Mean −0.03649
Std Dev 0.3705

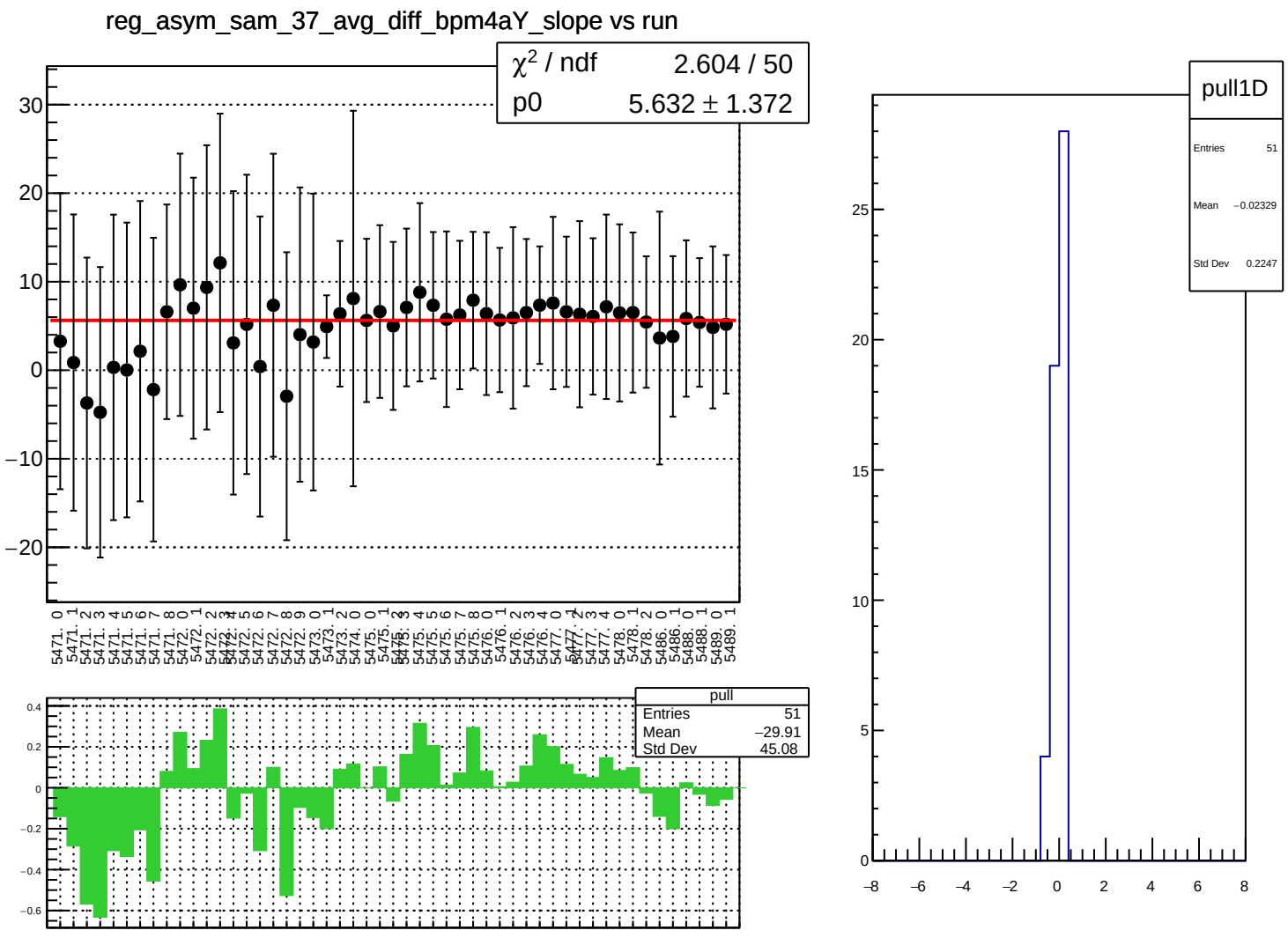

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 275.7 / 50
p0 3.676 ± 1.136
pull
Entries 51
Mean −6.541
Std Dev 21.37

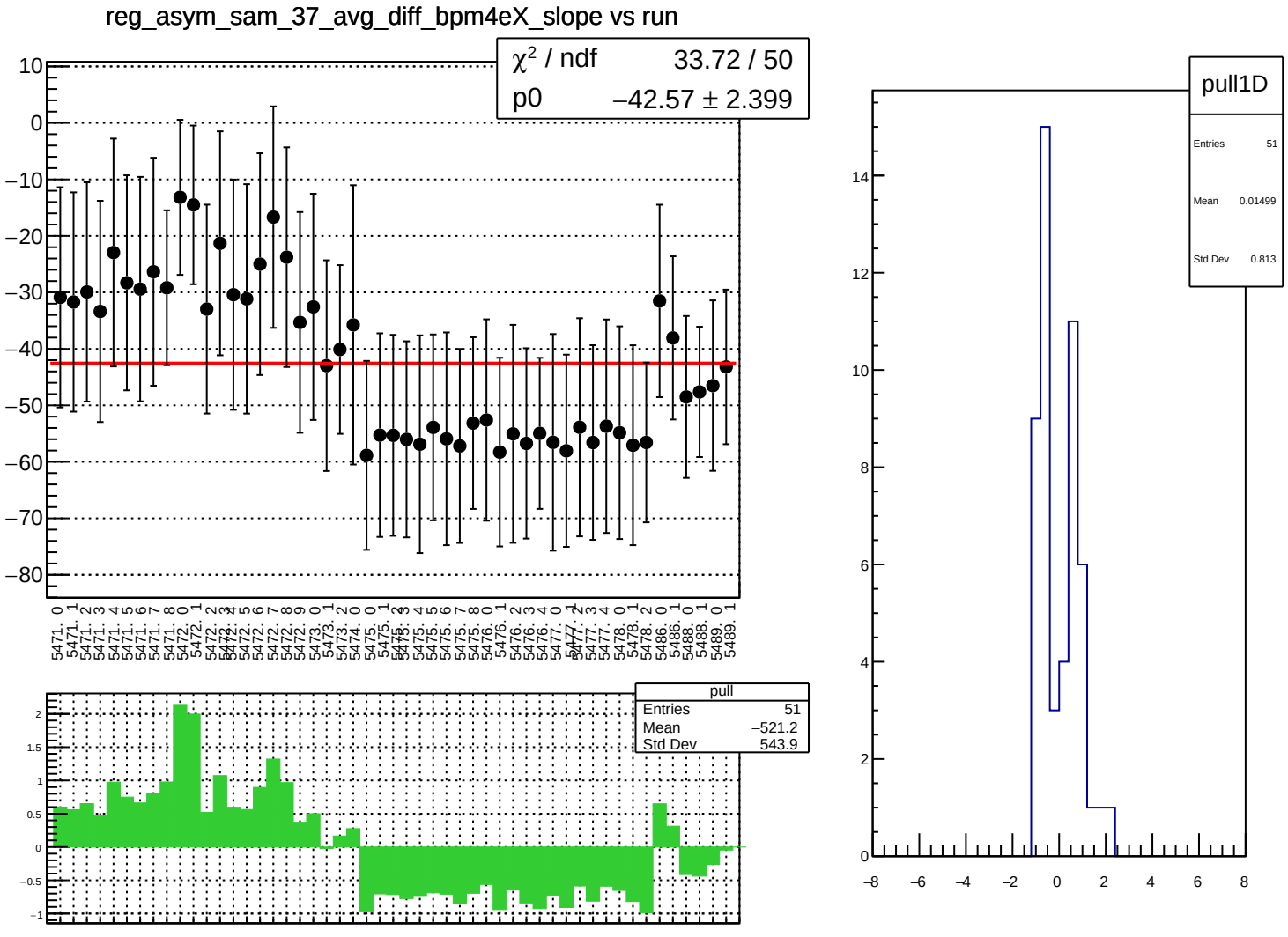

pull1D
Entries 51
Mean 0.6989
Std Dev 1.572


reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 4.458 / 50
p0 0.02402 ± 0.03589
pull
Entries 51
Mean 53.34
Std Dev 42.52
pull1D
Entries 51
Mean 0.0184
Std Dev 0.2951

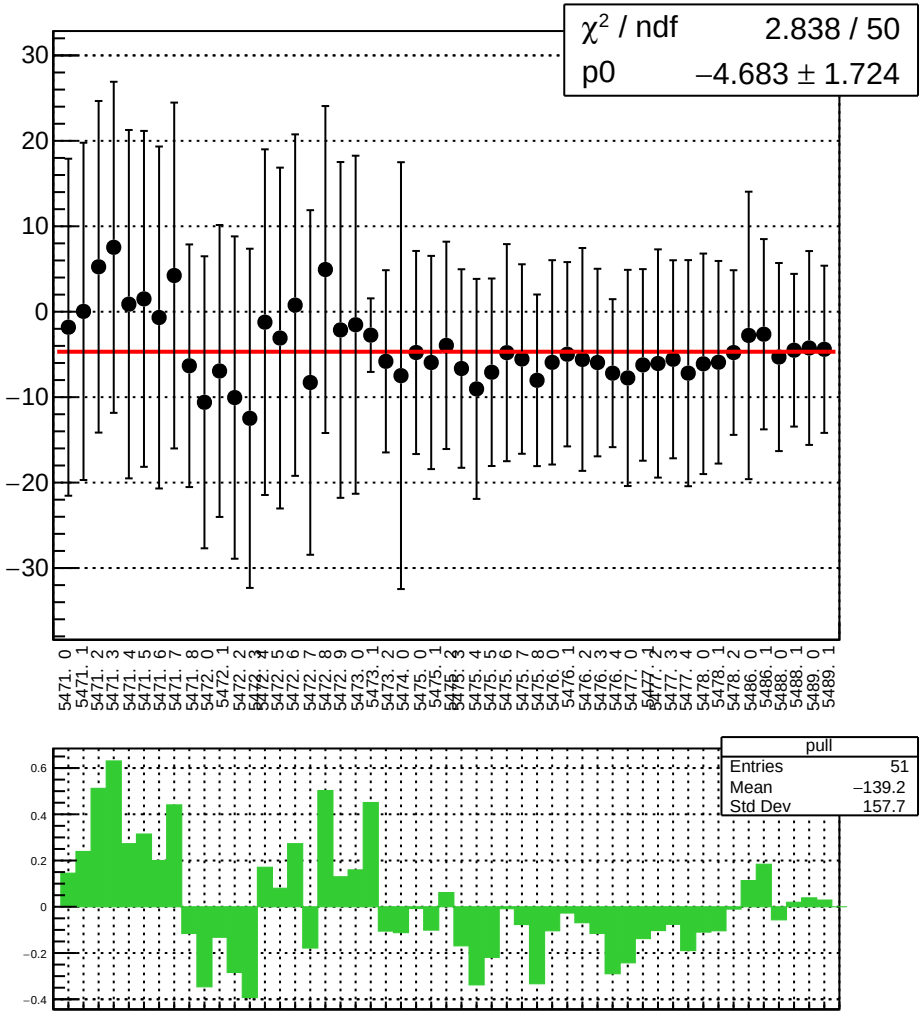

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 25.4 / 50
p0 −34.81 ± 2.478
pull
Entries 51
Mean −325.2
Std Dev 349.3

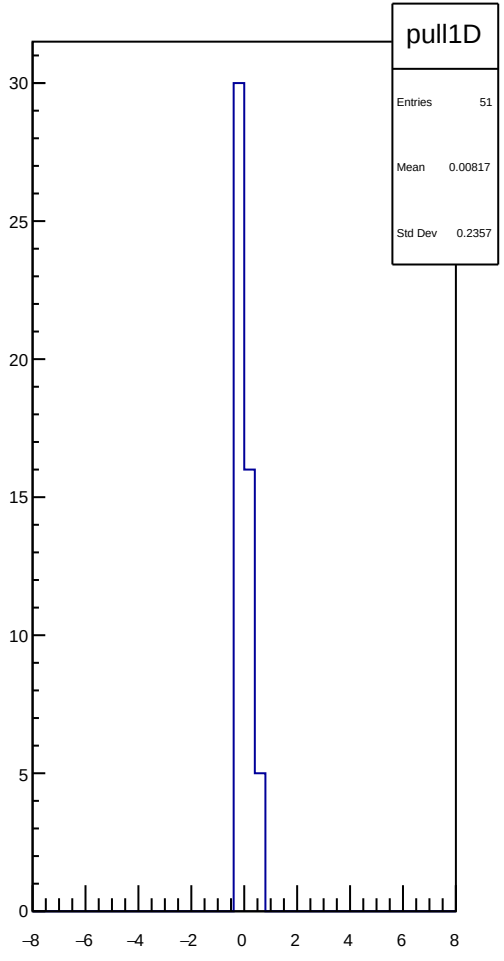

pull1D
Entries 51
Mean −0.02223
Std Dev 0.7053

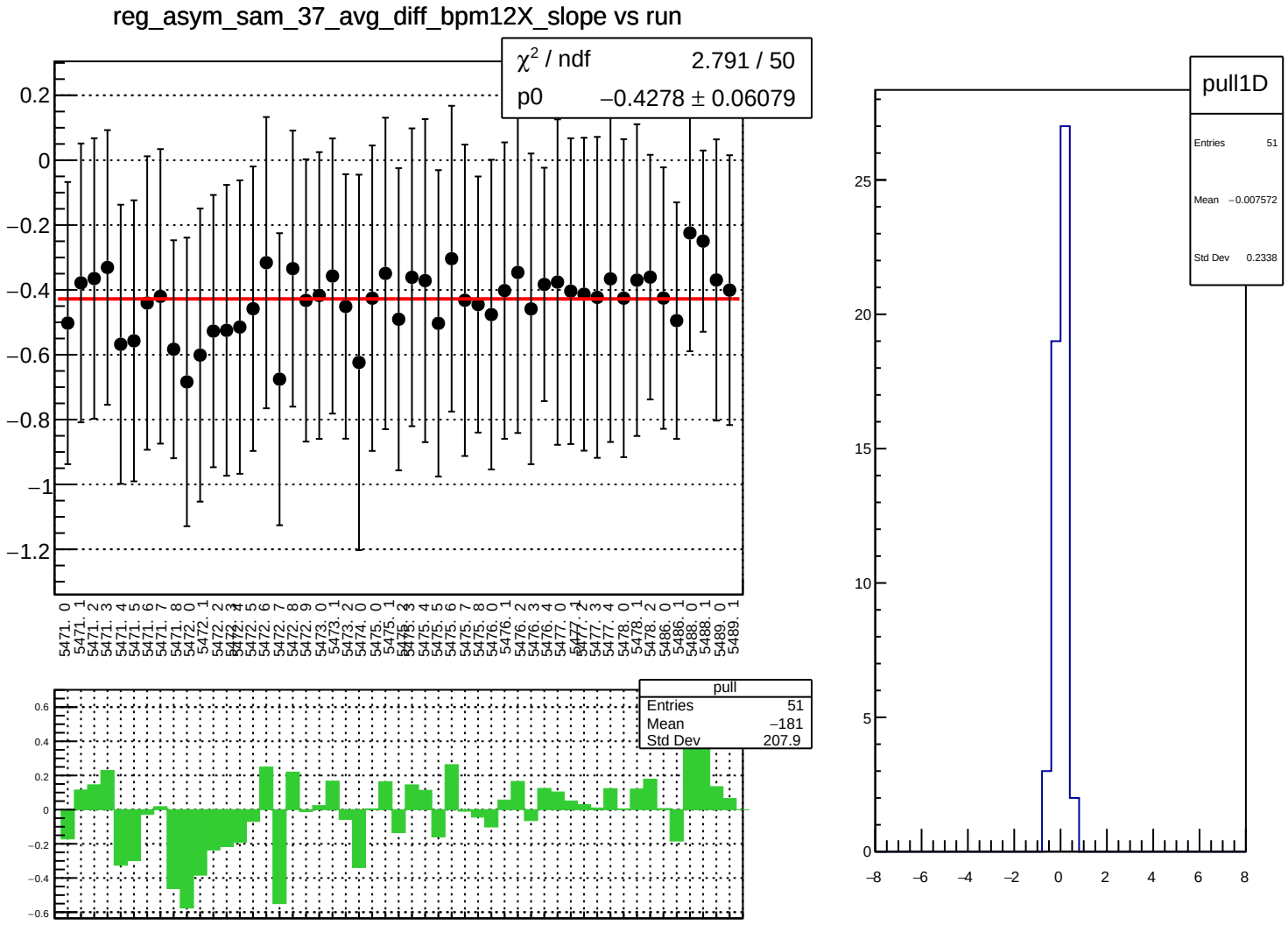

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.604 / 50
p0 5.632 ± 1.372
pull
Entries 51
Mean −29.91
Std Dev 45.08
pull1D
Entries 51
Mean −0.02329
Std Dev 0.2247

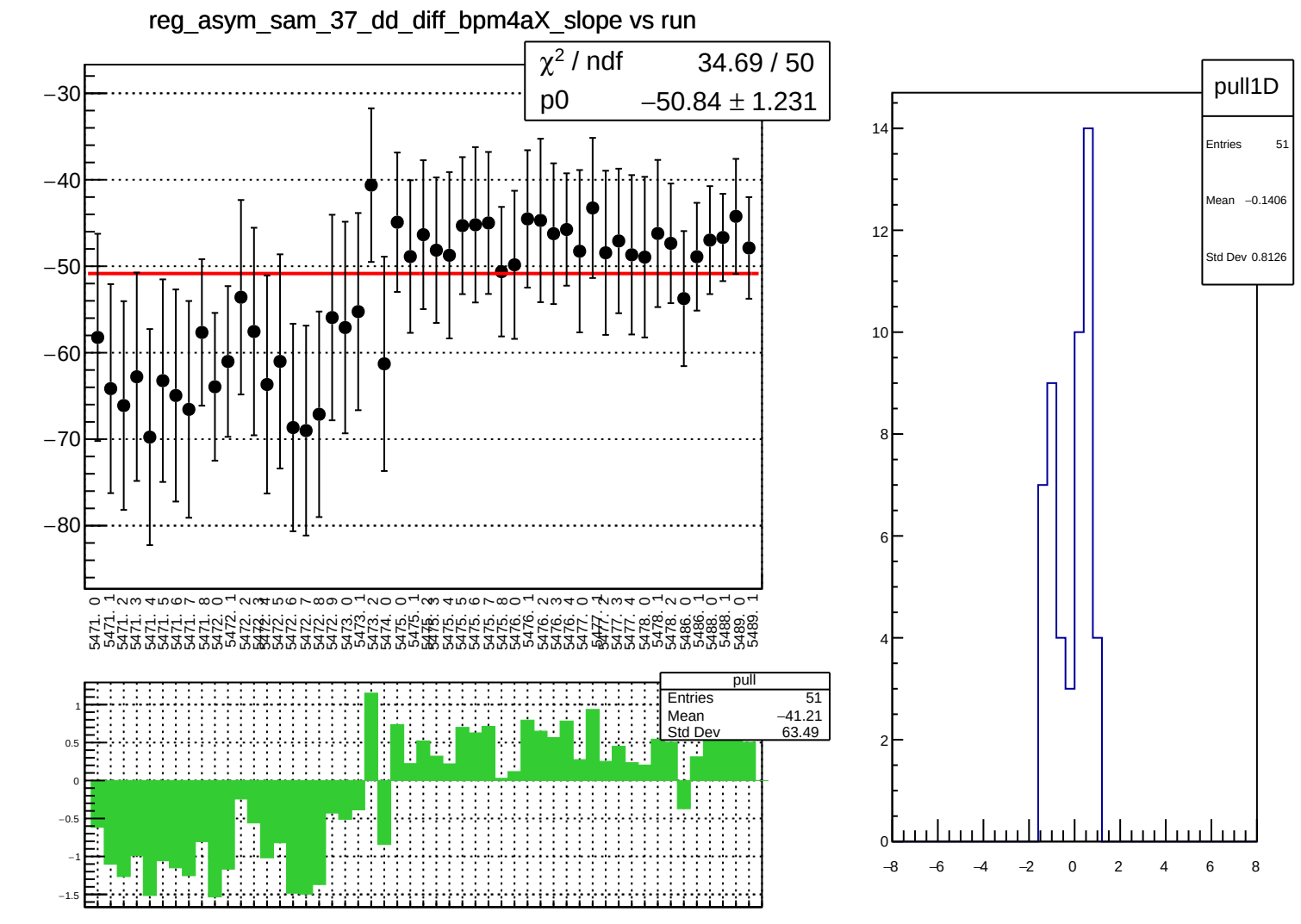

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.72 / 50
p0 −42.57 ± 2.399
pull
Entries 51
Mean −521.2
Std Dev 543.9
pull1D
Entries 51
Mean 0.01499
Std Dev 0.813

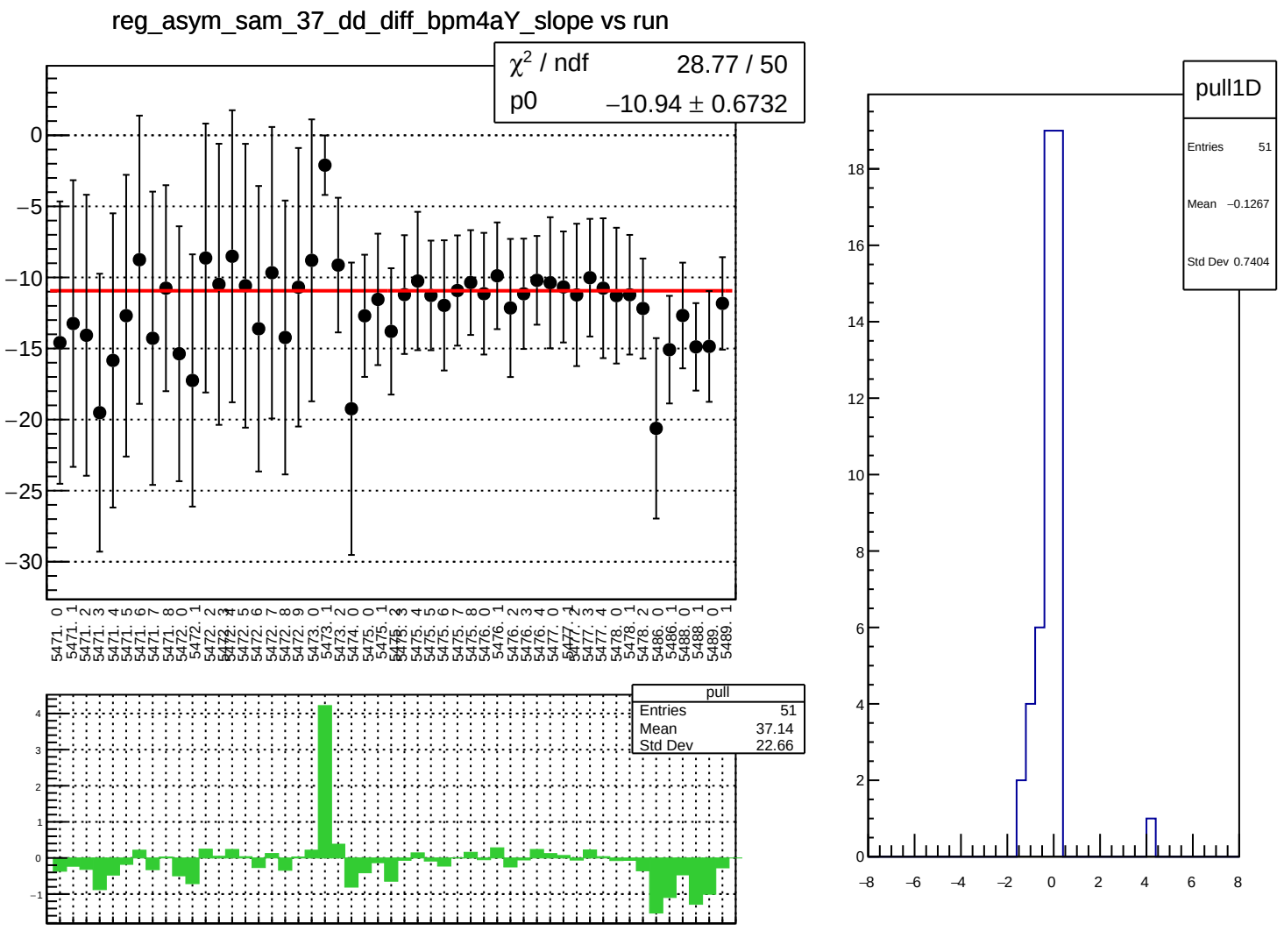
reg_asym_sam_37_avg_diff_bpm4eY_slope vs run

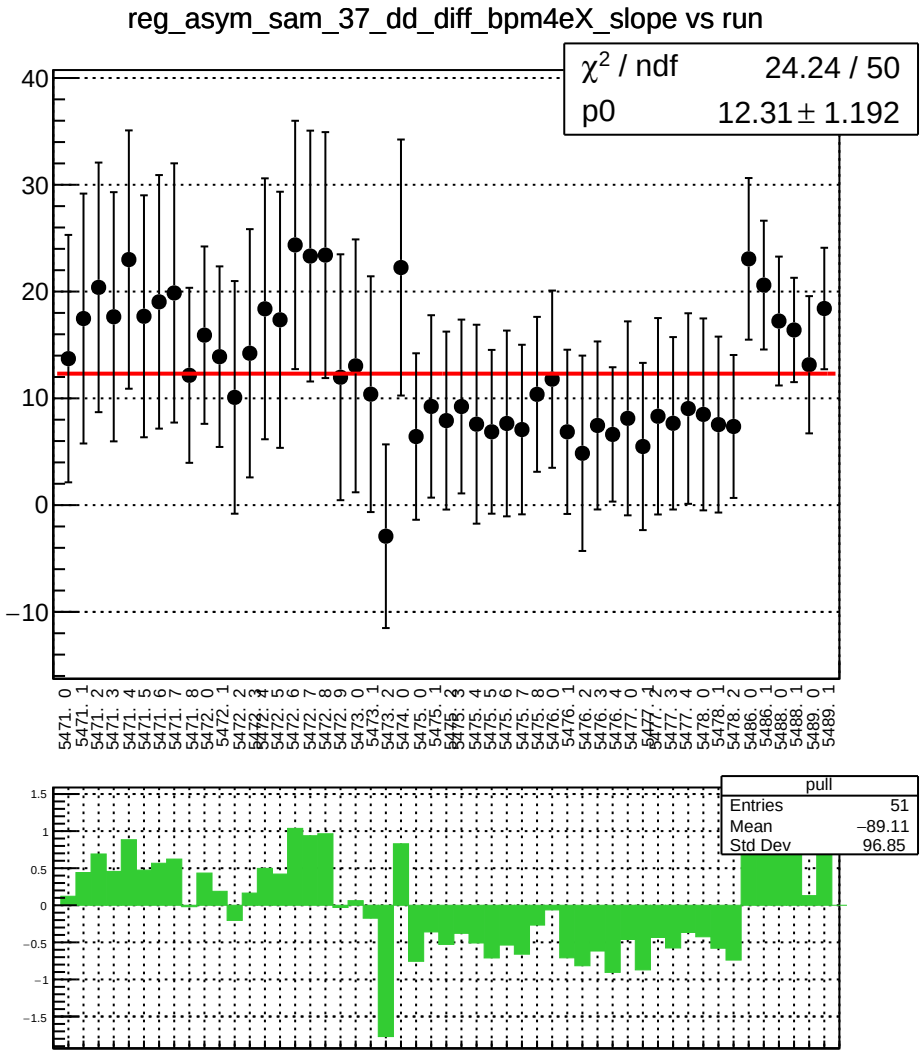


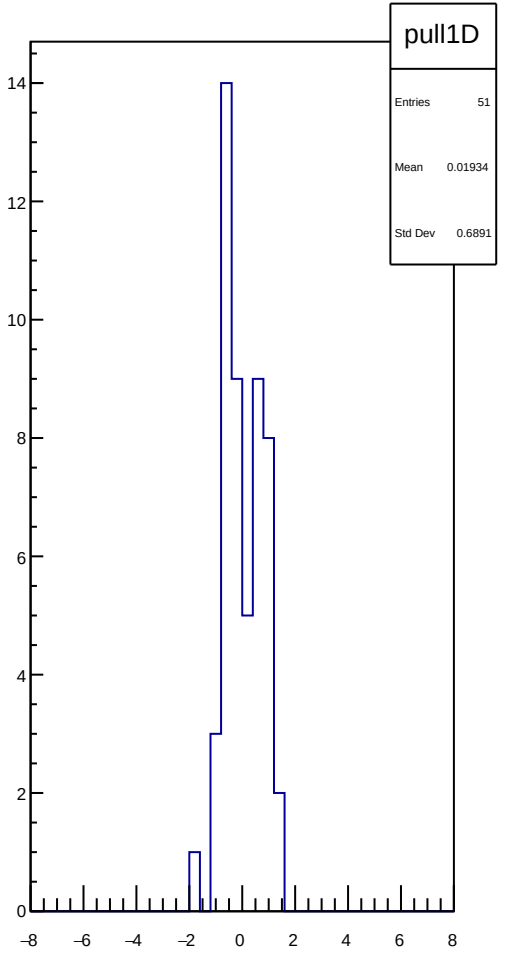


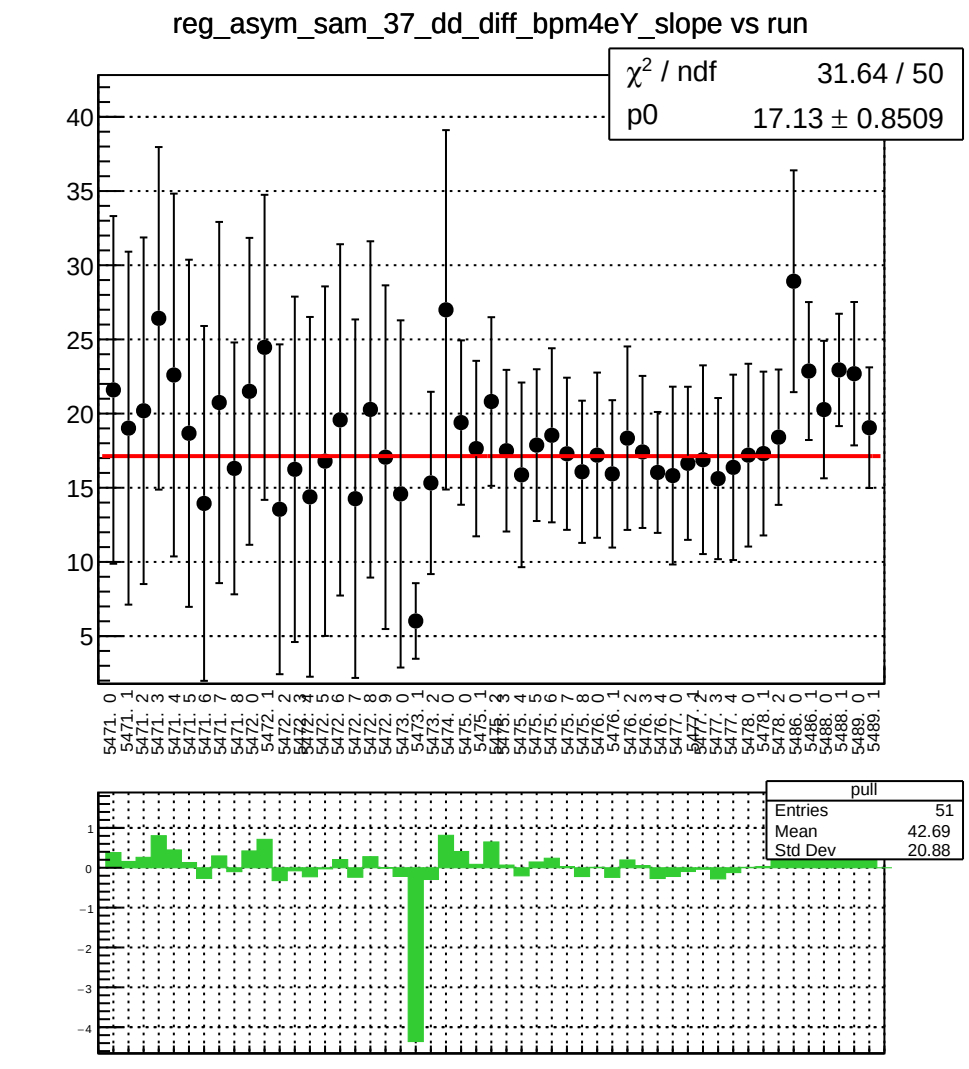

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.791 / 50
p0 −0.4278 ± 0.06079
pull
Entries 51
Mean −181
Std Dev 207.9
pull1D
Entries 51
Mean −0.007572
Std Dev 0.2338

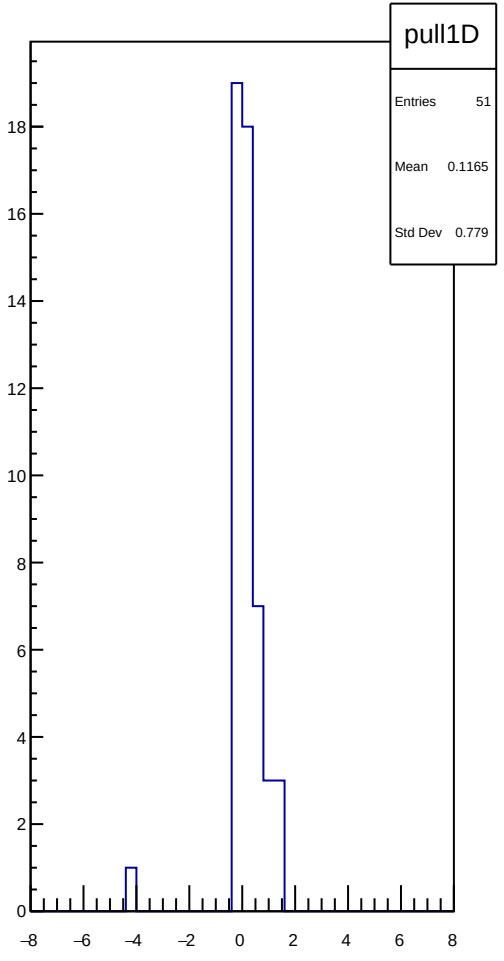

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 34.69 / 50
p0 −50.84 ± 1.231
pull
Entries 51
Mean −41.21
Std Dev 63.49
pull1D
Entries 51
Mean −0.1406
Std Dev 0.8126

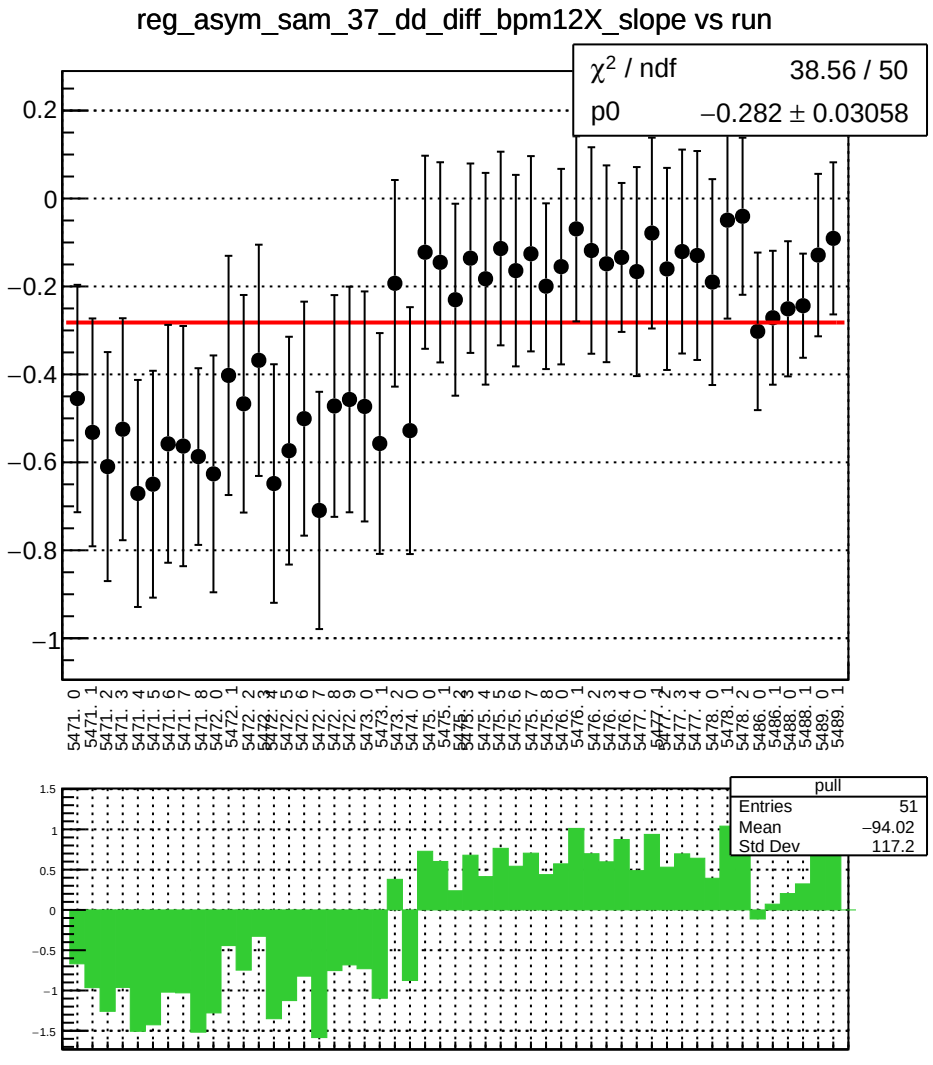

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.77 / 50
p0 −10.94 ± 0.6732
pull
Entries 51
Mean 37.14
Std Dev 22.66
pull1D
Entries 51
Mean −0.1267
Std Dev 0.7404

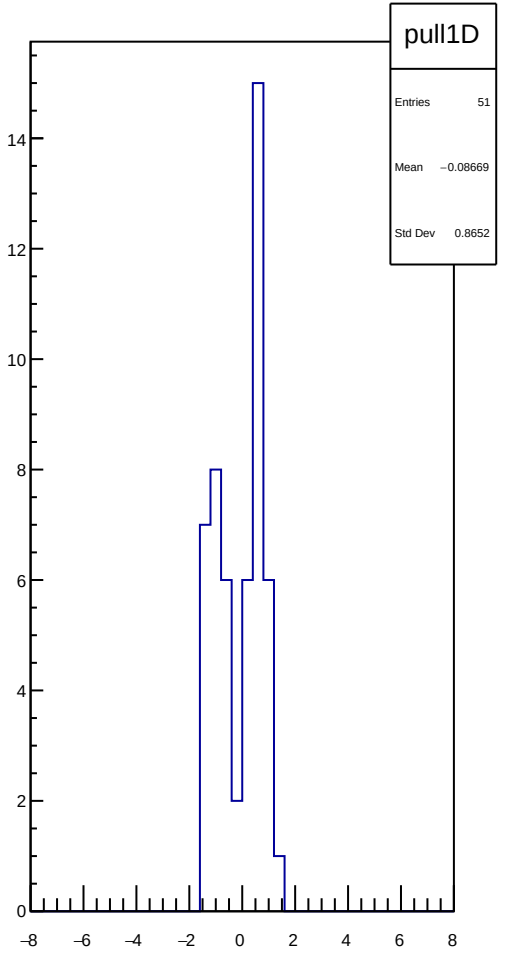

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.24 / 50
p0 12.31 ± 1.192
pull
Entries 51
Mean −89.11
Std Dev 96.85

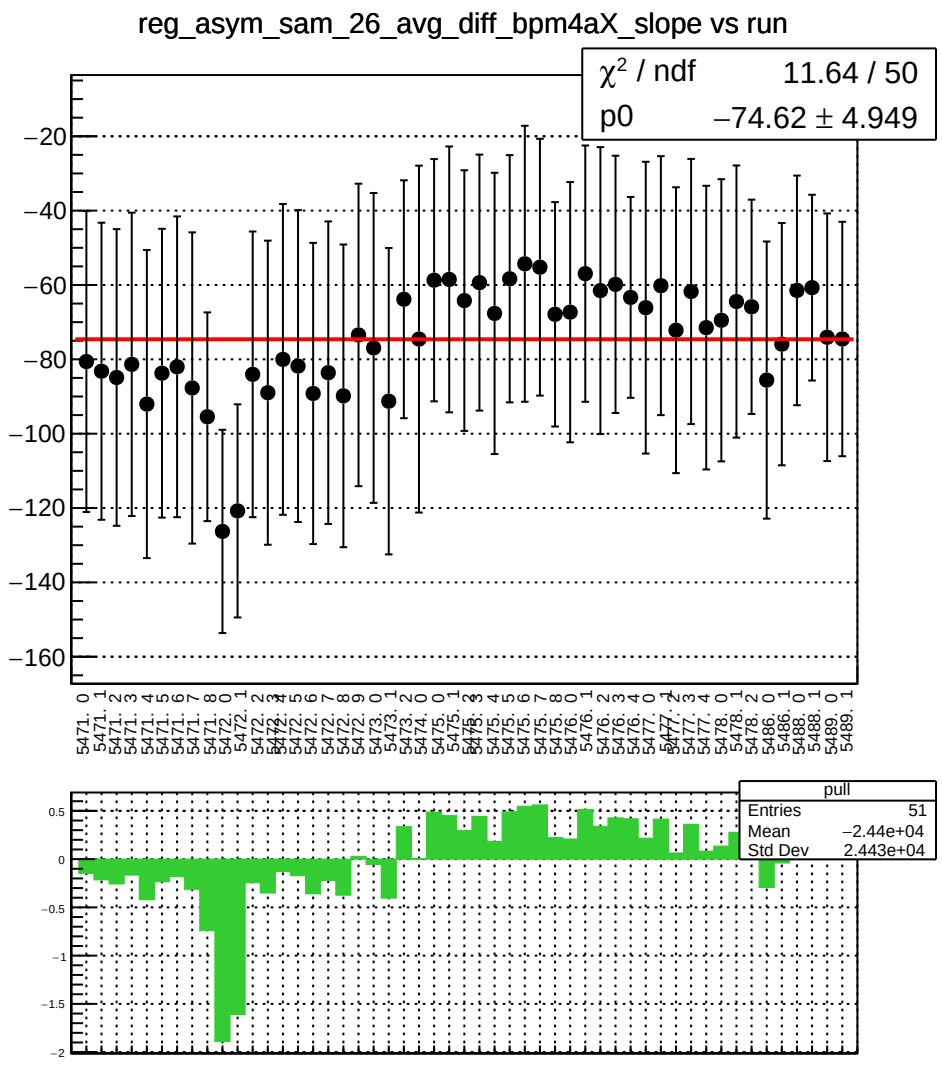

pull1D
Entries 51
Mean 0.01934
Std Dev 0.6891

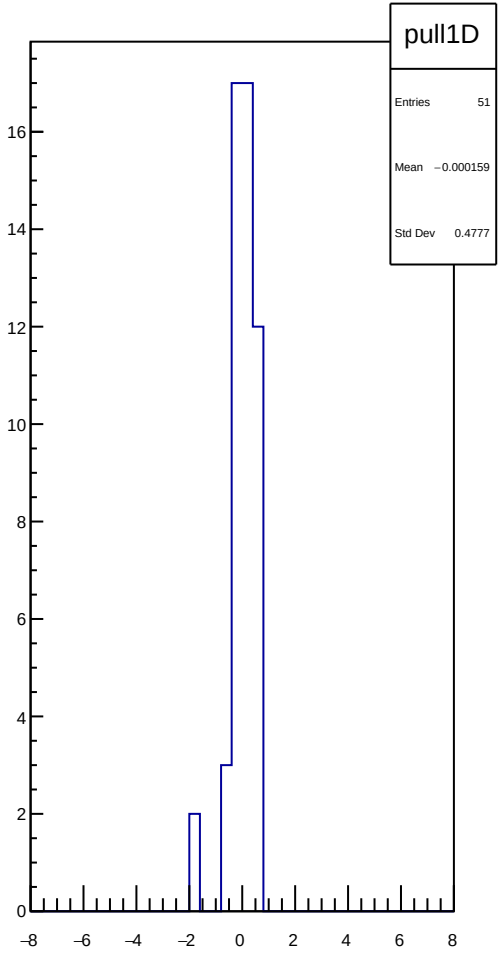

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.64 / 50
p0 17.13 ± 0.8509
pull
Entries 51
Mean 42.69
Std Dev 20.88

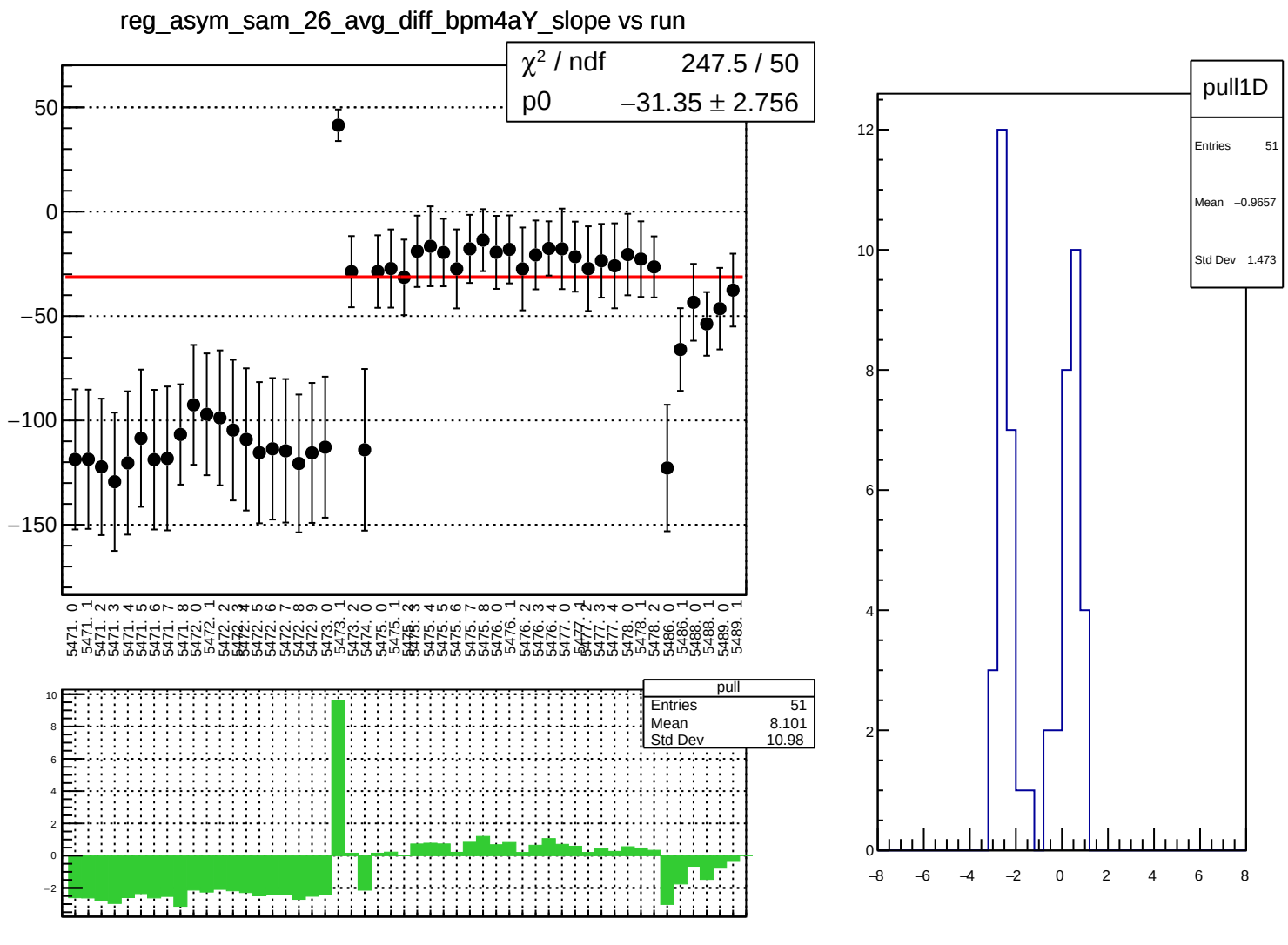

pull1D
Entries 51
Mean 0.1165
Std Dev 0.779

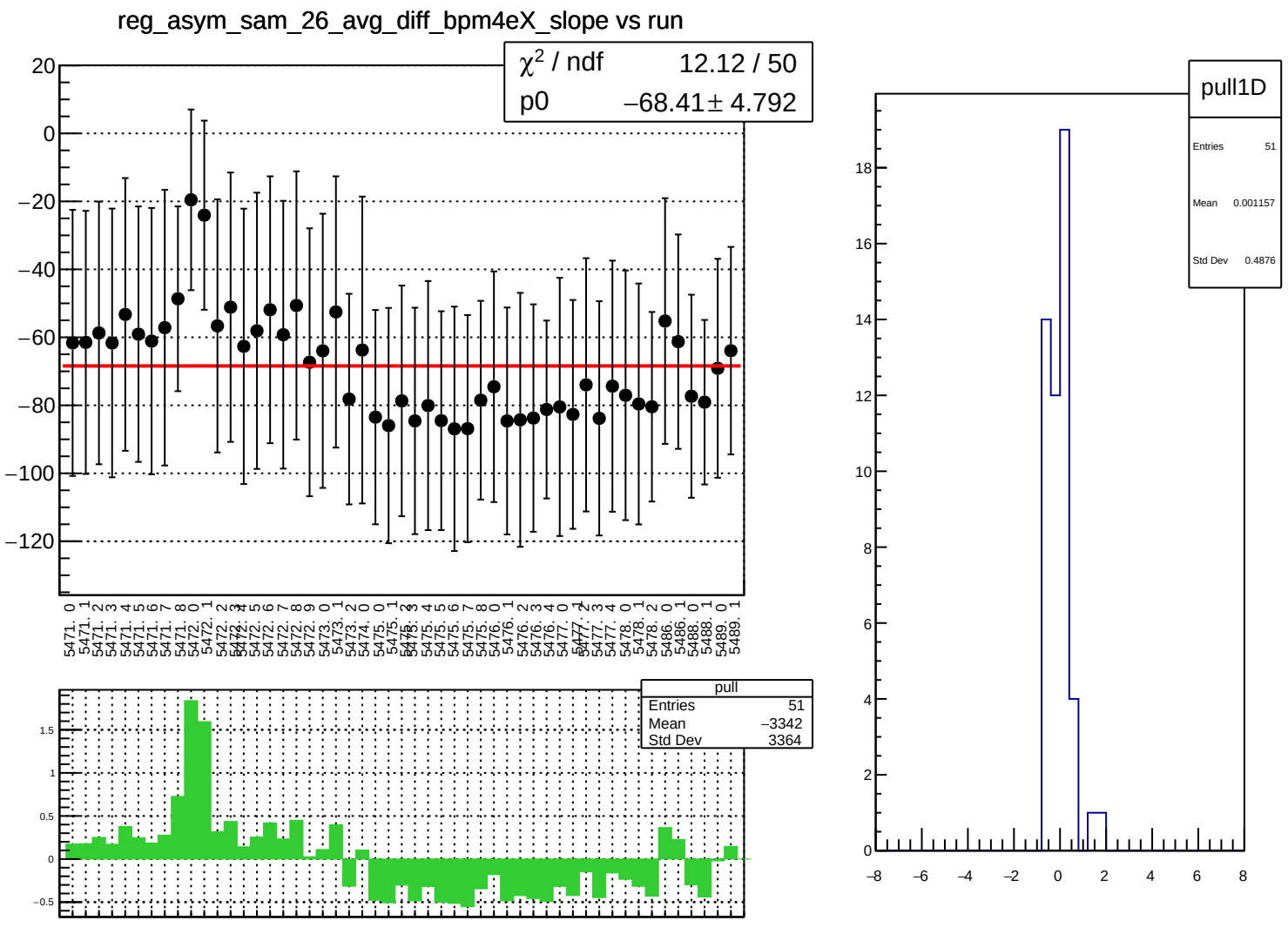

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 38.56 / 50
p0 −0.282 ± 0.03058
pull
Entries 51
Mean −94.02
Std Dev 117.2

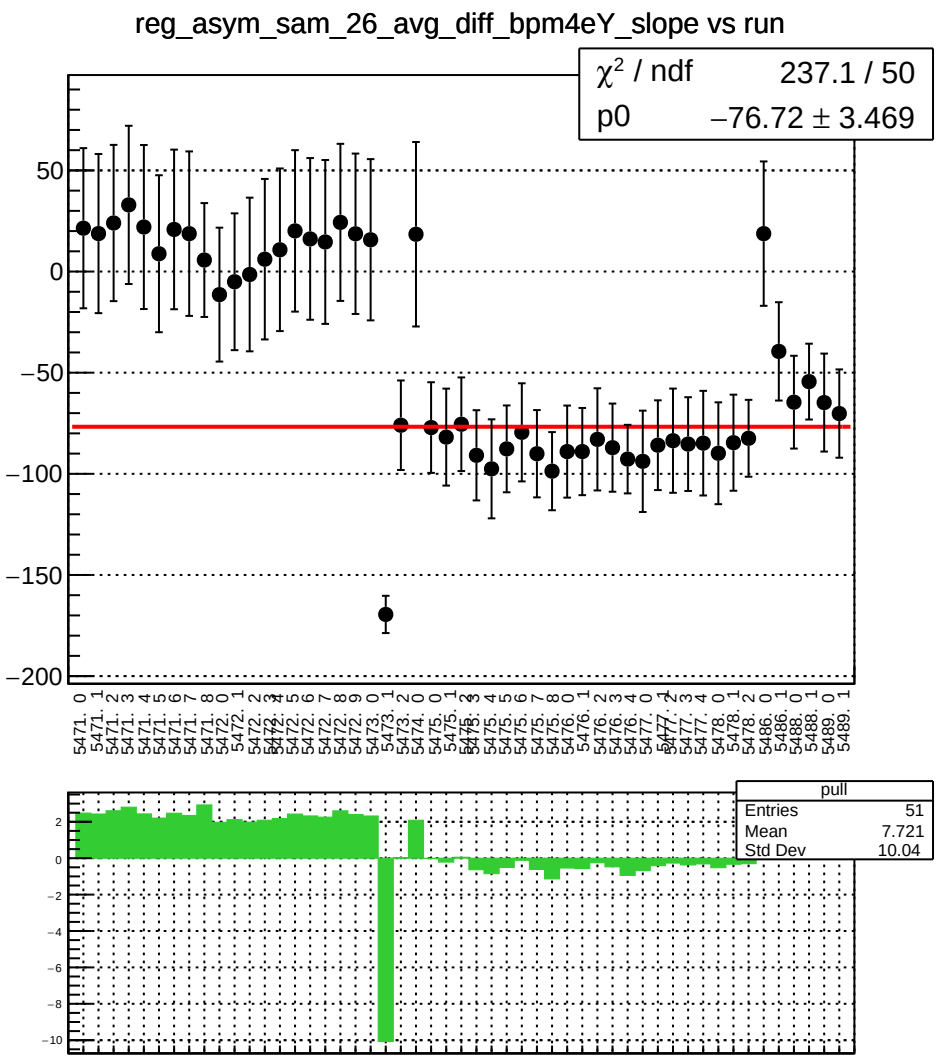

pull1D
Entries 51
Mean −0.08669
Std Dev 0.8652

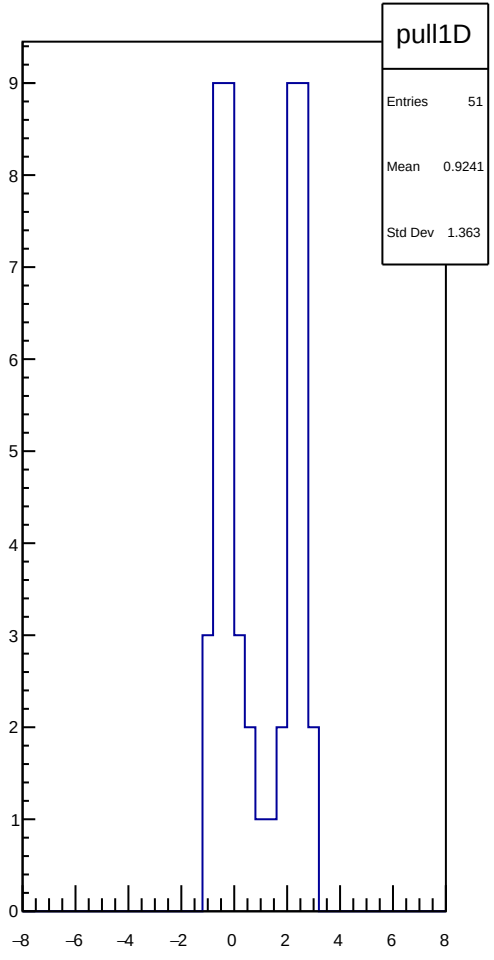

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 11.64 / 50
p0 −74.62 ± 4.949
pull
Entries 51
Mean −2.44e+04
Std Dev 2.443e+04

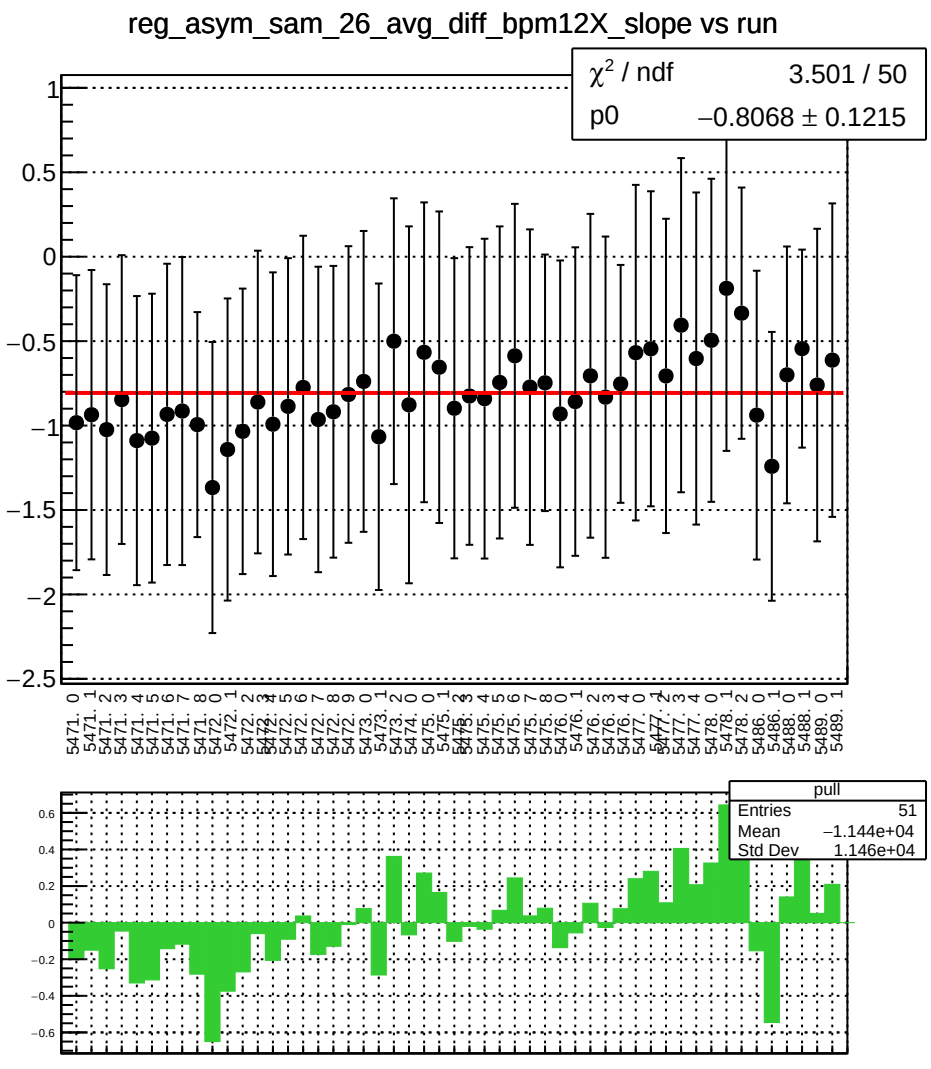

pull1D
Entries 51
Mean −0.000159
Std Dev 0.4777

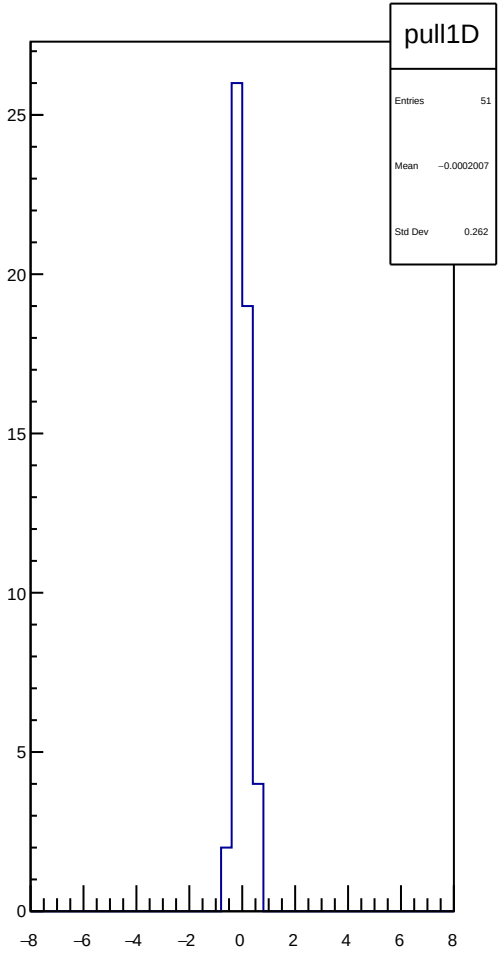

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 247.5 / 50
p0 −31.35 ± 2.756
pull
Entries 51
Mean 8.101
Std Dev 10.98
pull1D
Entries 51
Mean −0.9657
Std Dev 1.473

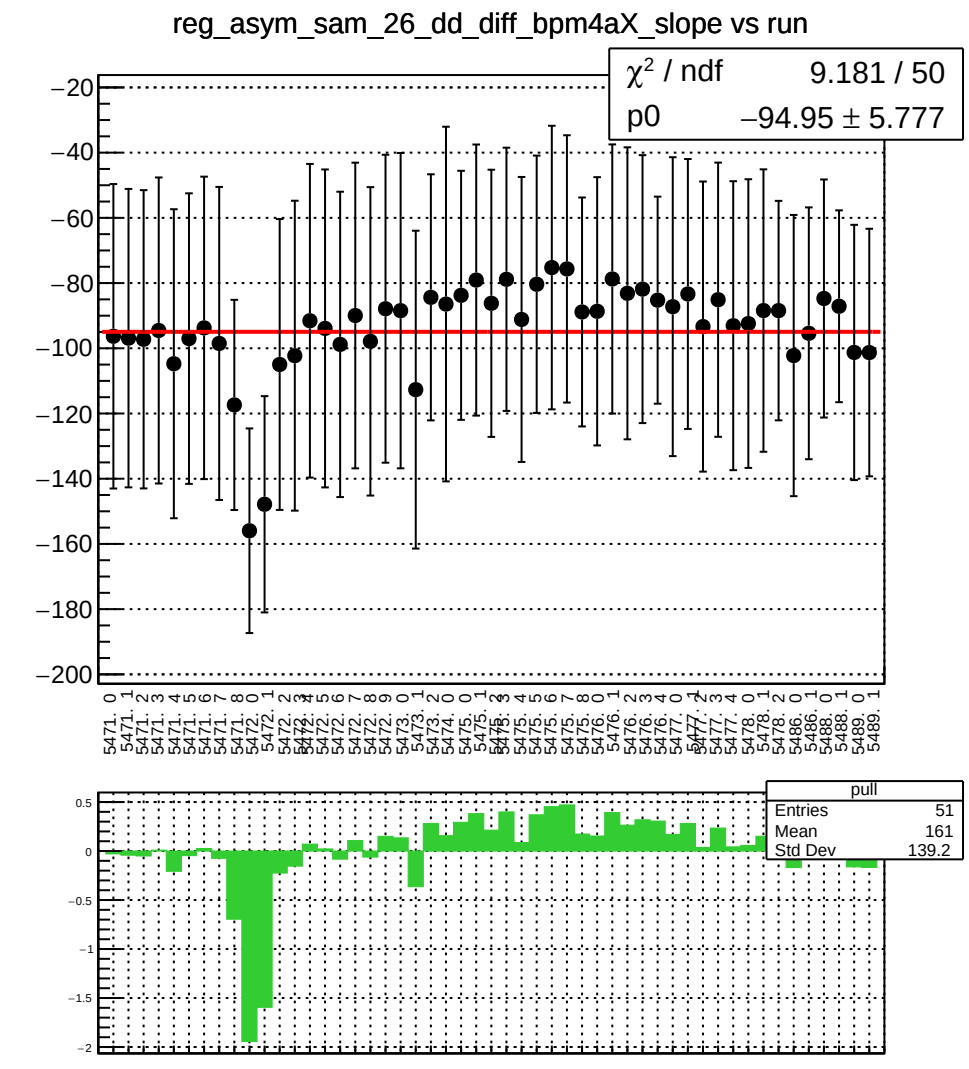

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.12 / 50
p0 −68.41 ± 4.792
pull
Entries 51
Mean −3342
Std Dev 3364
pull1D
Entries 51
Mean 0.001157
Std Dev 0.4876

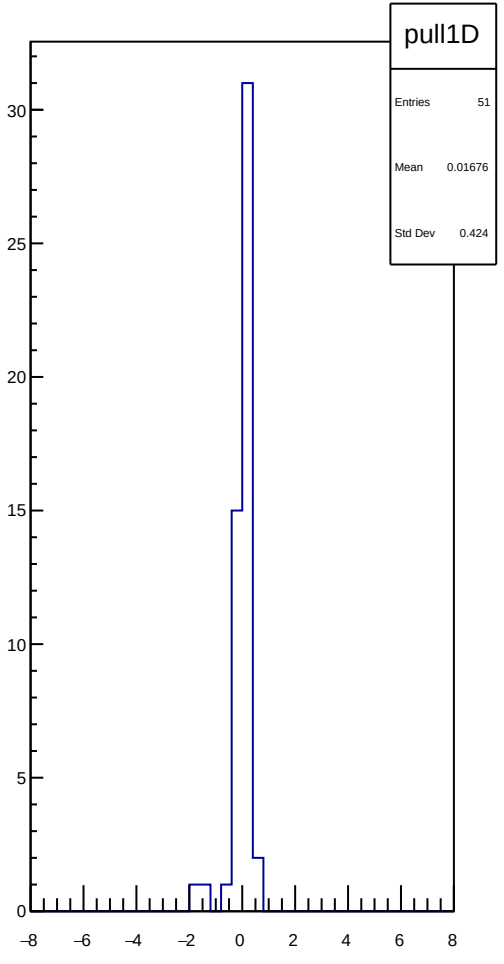

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 237.1 / 50
p0 −76.72 ± 3.469
pull
Entries 51
Mean 7.721
Std Dev 10.04

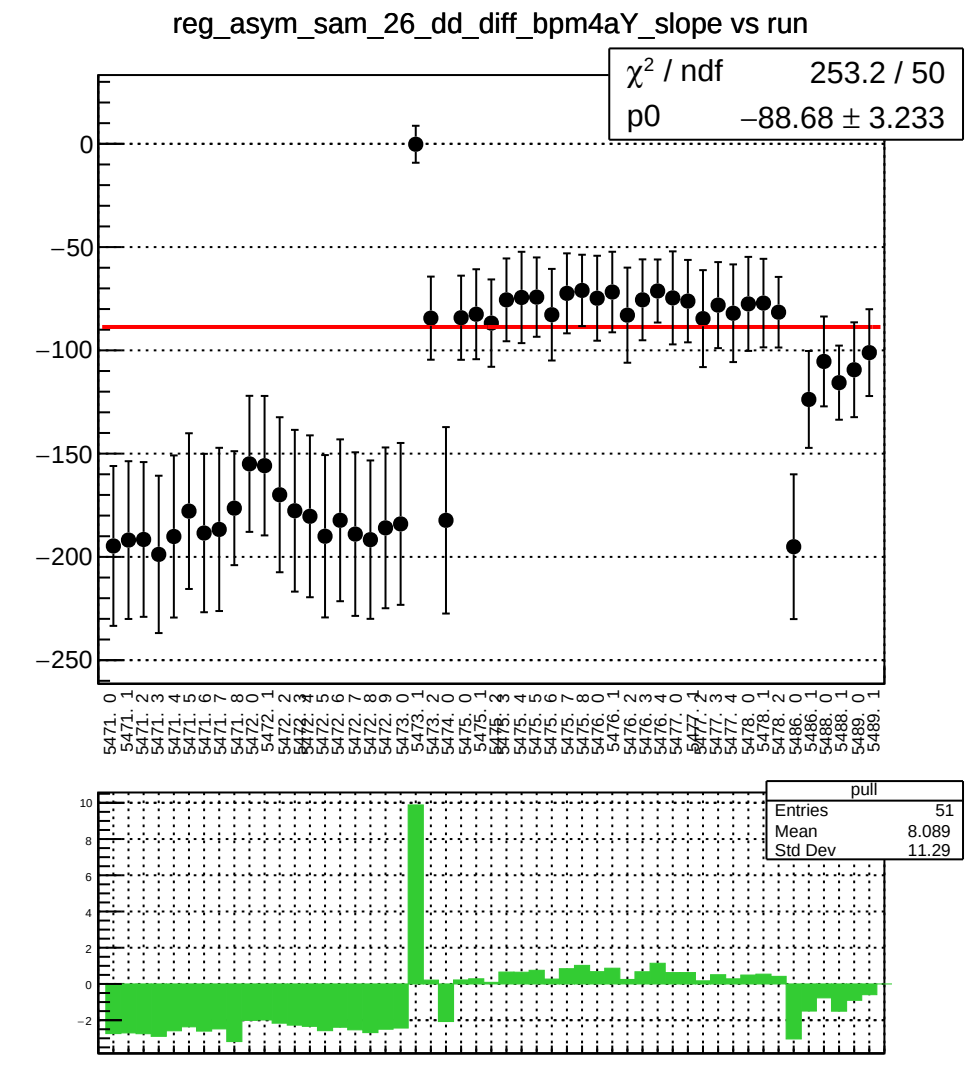

pull1D
Entries 51
Mean 0.9241
Std Dev 1.363

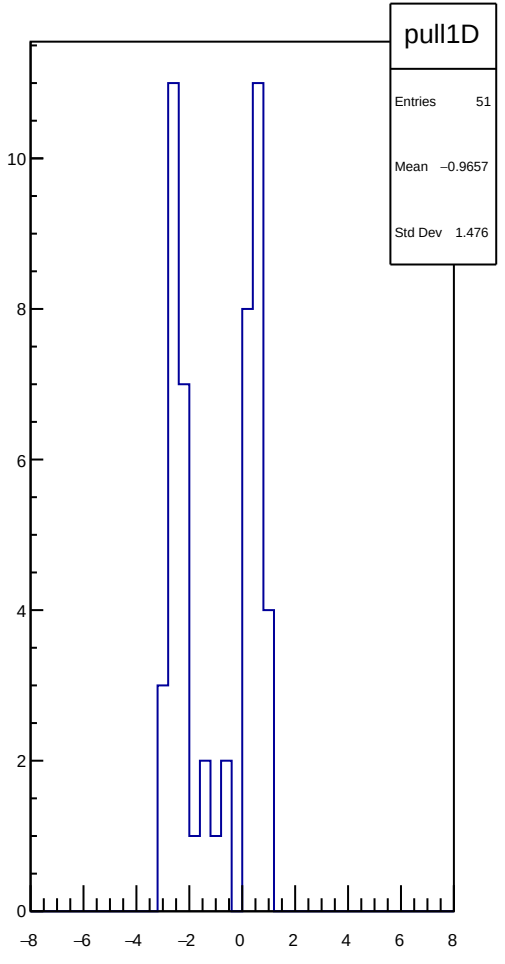

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 3.501 / 50
p0 −0.8068 ± 0.1215
pull
Entries 51
Mean −1.144e+04
Std Dev 1.146e+04

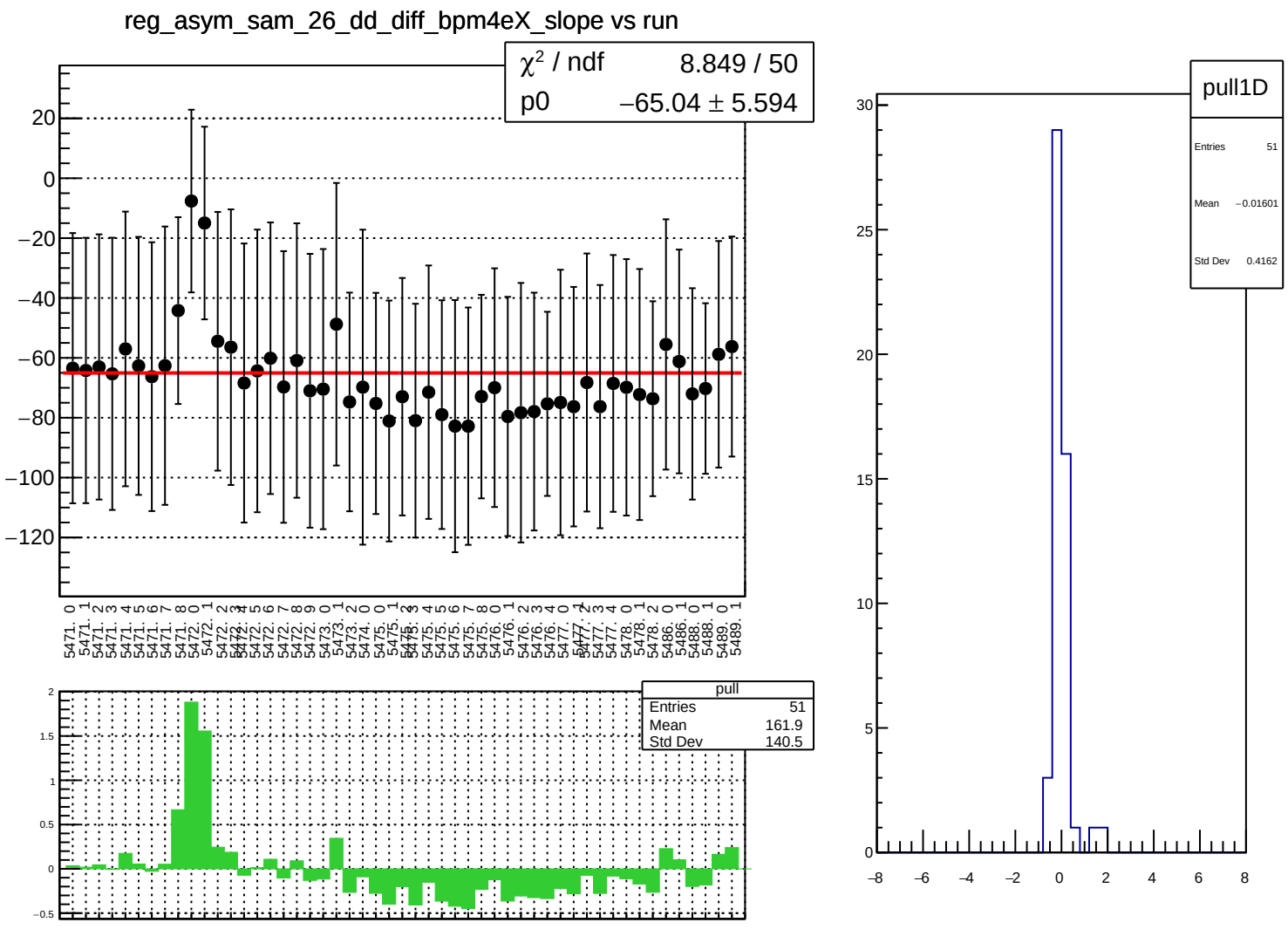

pull1D
Entries 51
Mean −0.0002007
Std Dev 0.262

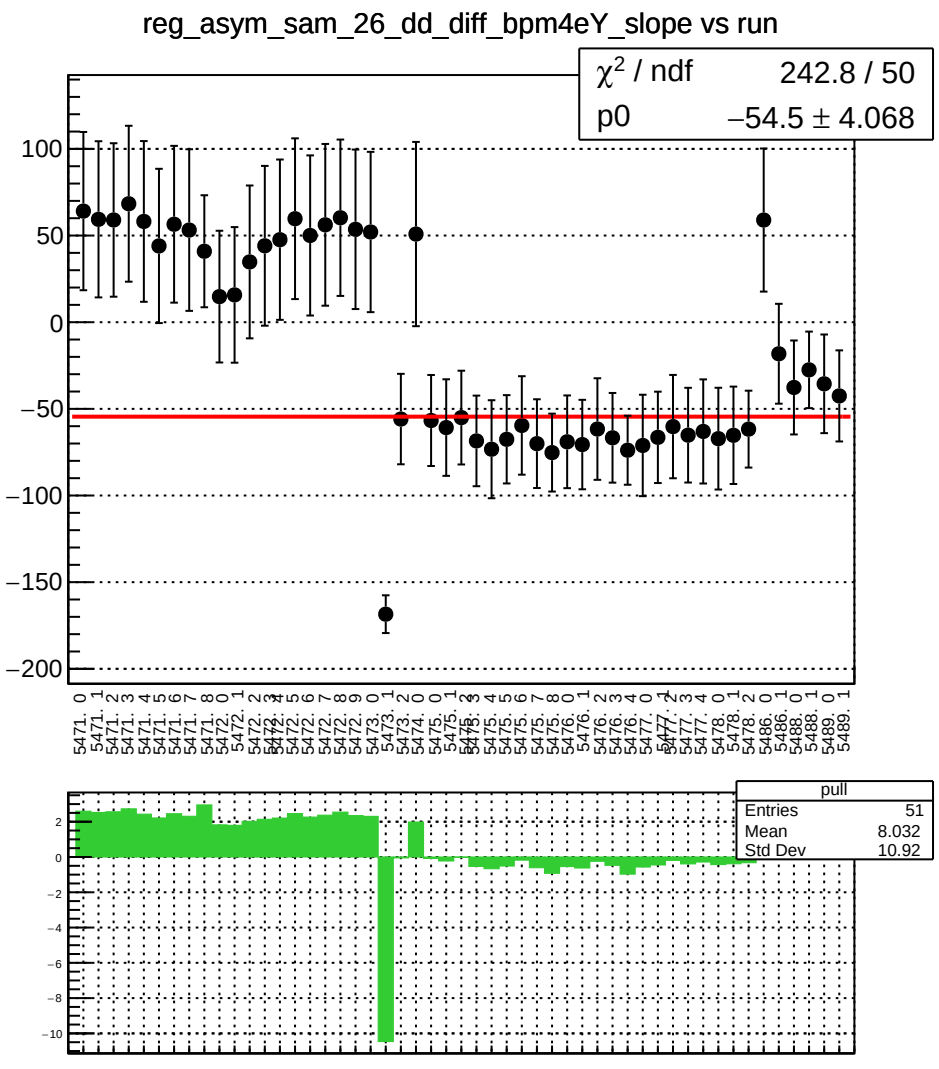

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.181 / 50
p0 −94.95 ± 5.777
pull
Entries 51
Mean 161
Std Dev 139.2

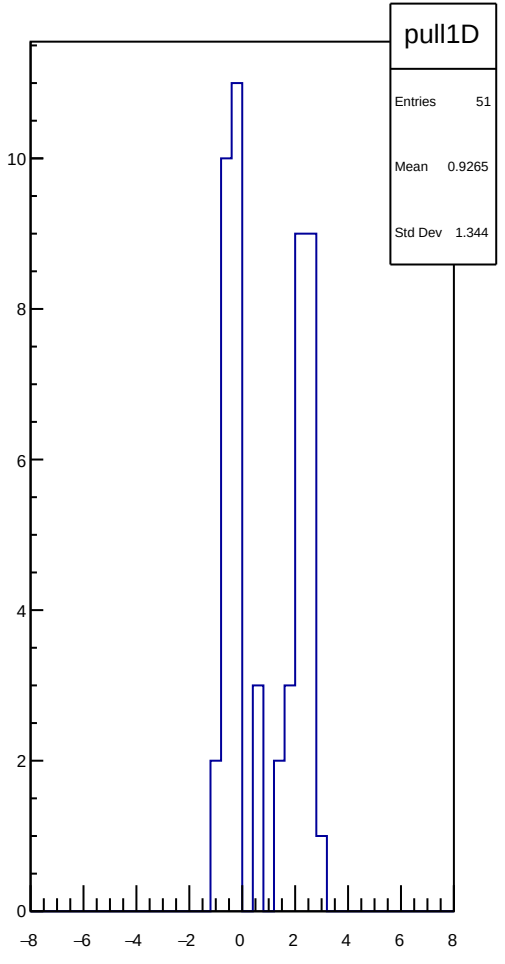

pull1D
Entries 51
Mean 0.01676
Std Dev 0.424

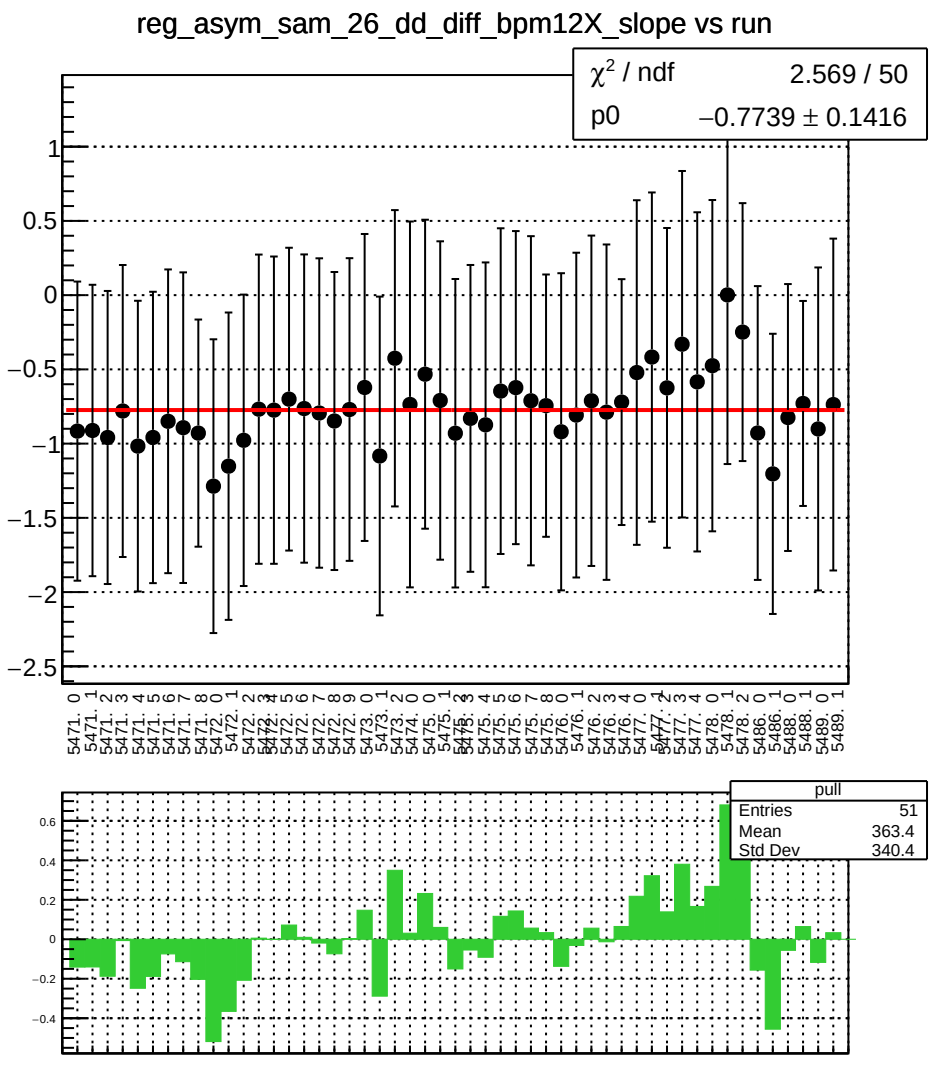

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 253.2 / 50
p0 −88.68 ± 3.233
pull
Entries 51
Mean 8.089
Std Dev 11.29

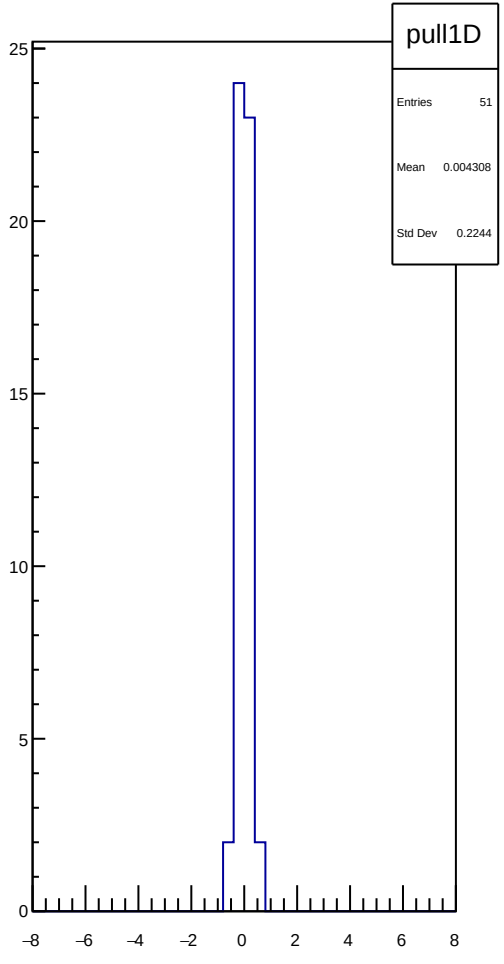

pull1D
Entries 51
Mean −0.9657
Std Dev 1.476

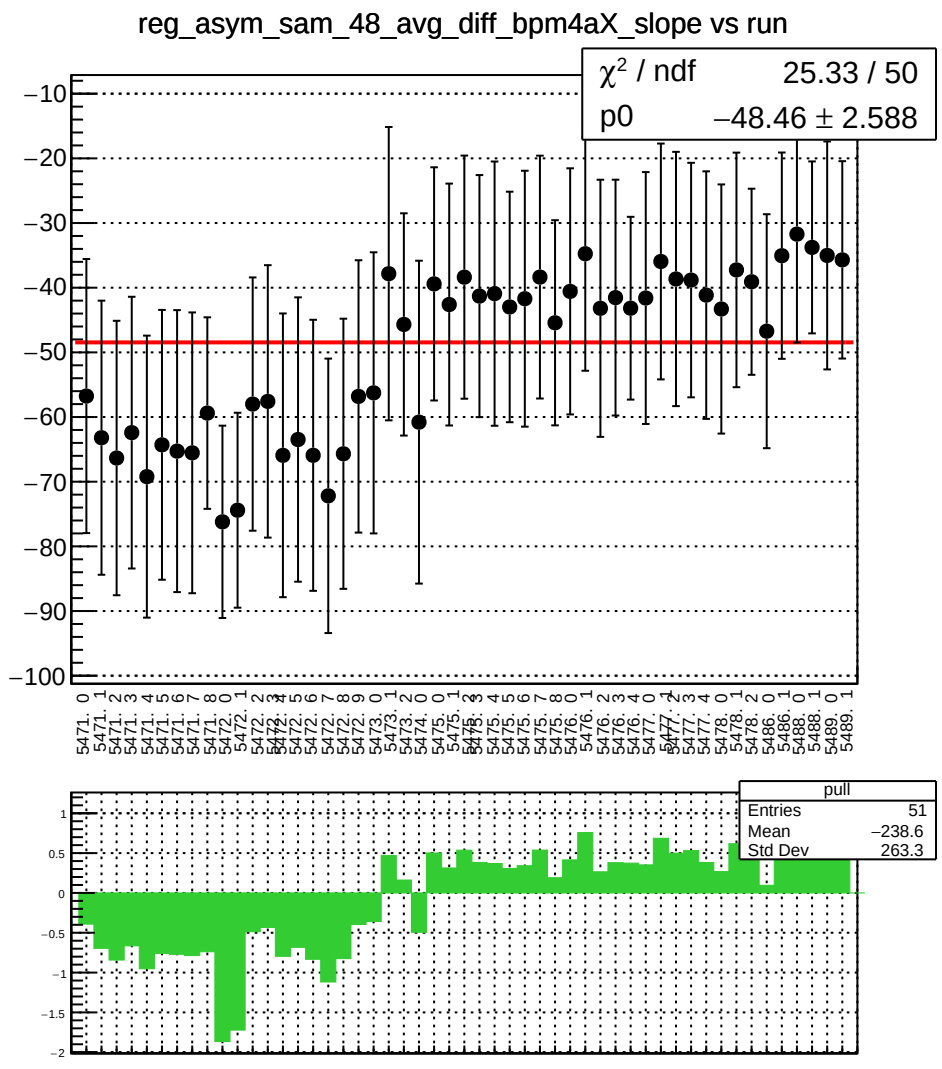

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.849 / 50
p0 −65.04 ± 5.594
pull
Entries 51
Mean 161.9
Std Dev 140.5
pull1D
Entries 51
Mean −0.01601
Std Dev 0.4162

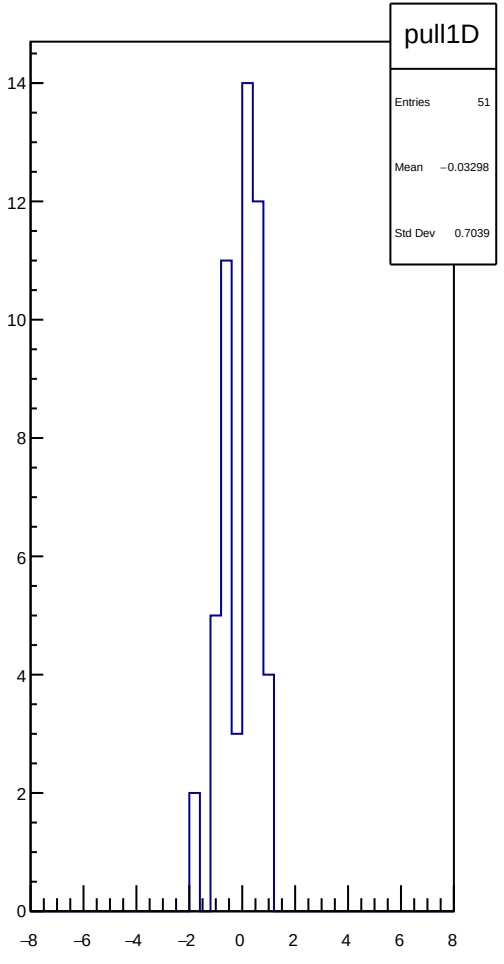

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 242.8 / 50
p0 −54.5 ± 4.068
pull
Entries 51
Mean 8.032
Std Dev 10.92

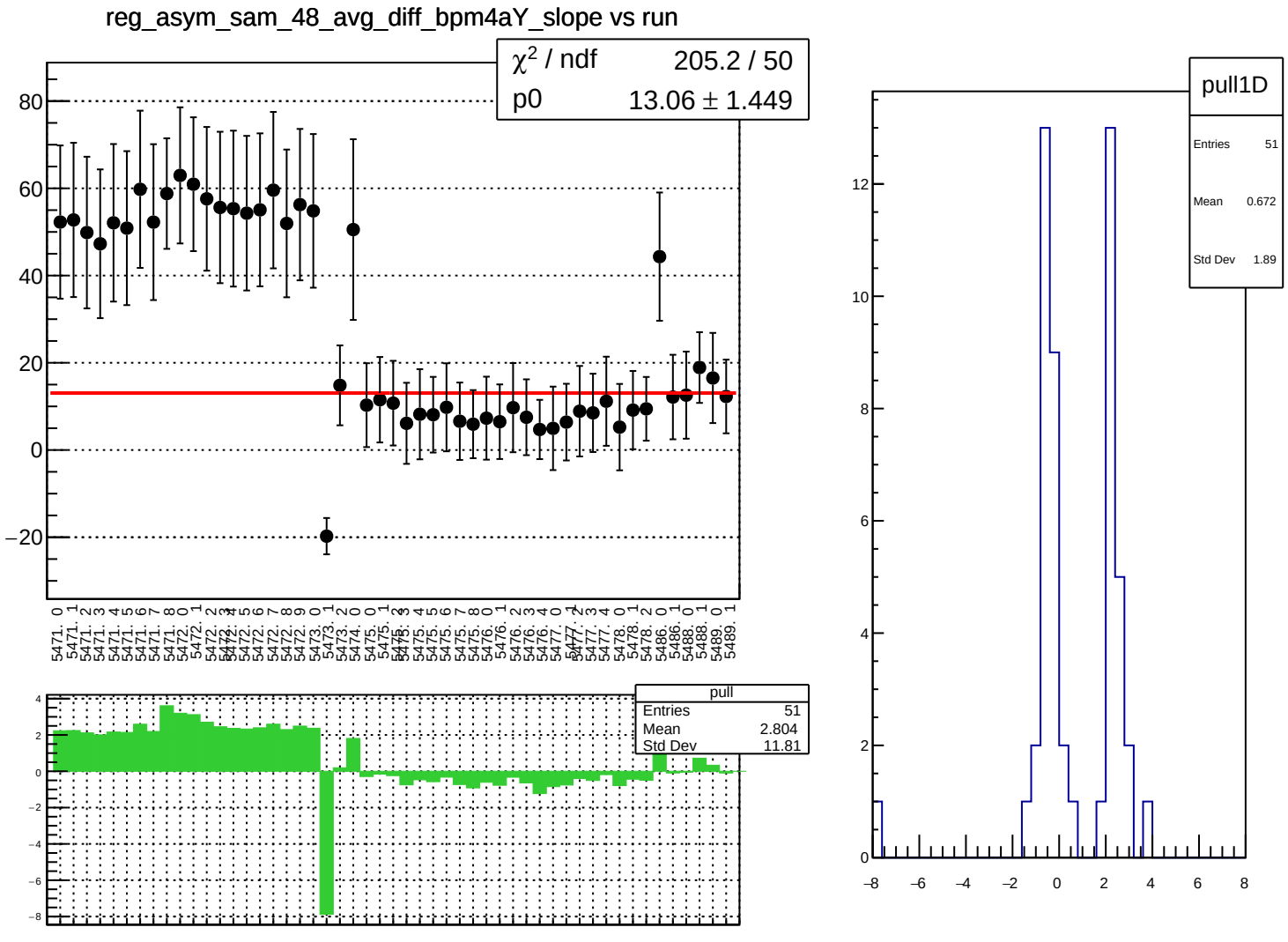

pull1D
Entries 51
Mean 0.9265
Std Dev 1.344

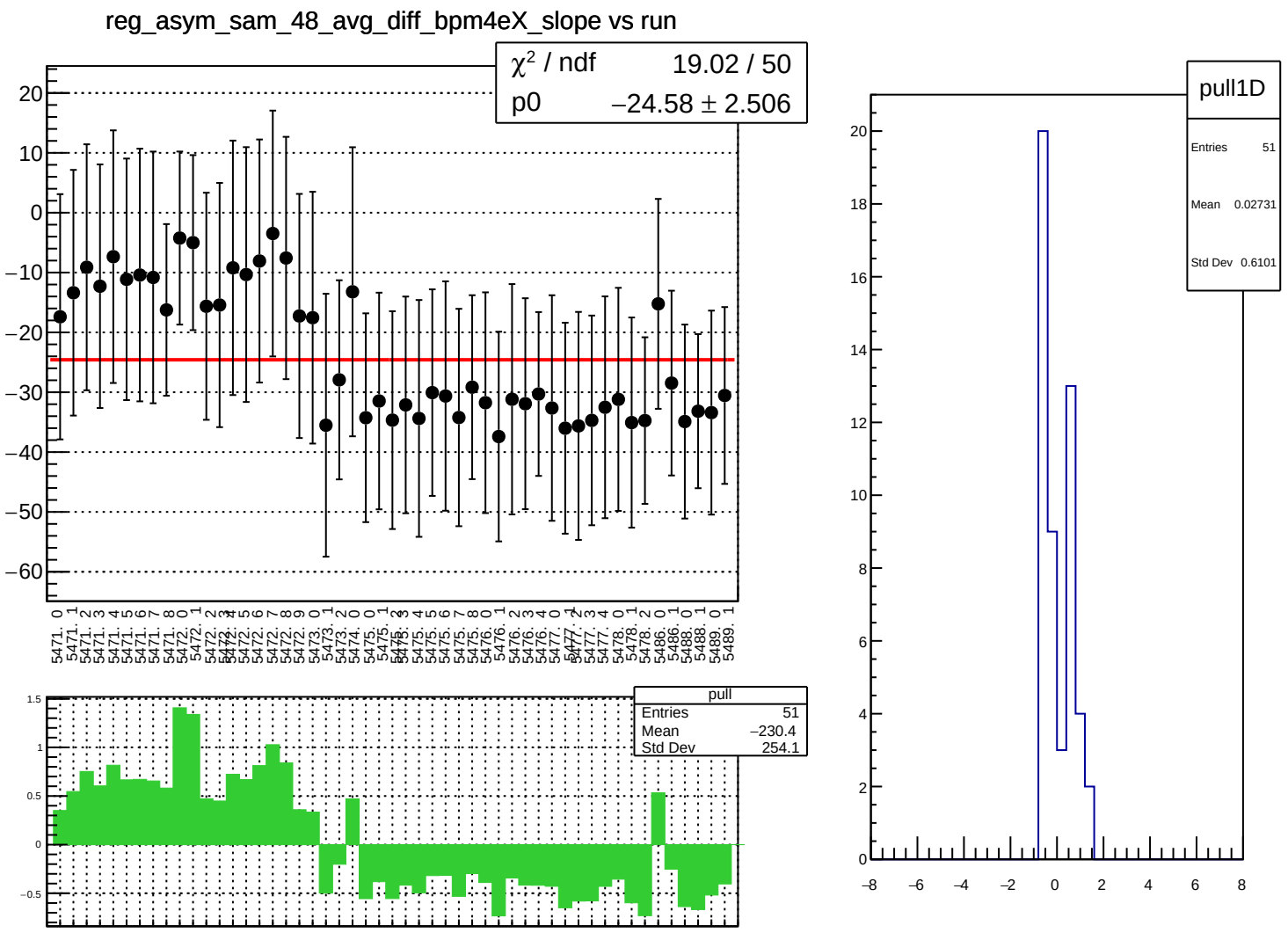

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.569 / 50
p0 −0.7739 ± 0.1416
pull
Entries 51
Mean 363.4
Std Dev 340.4

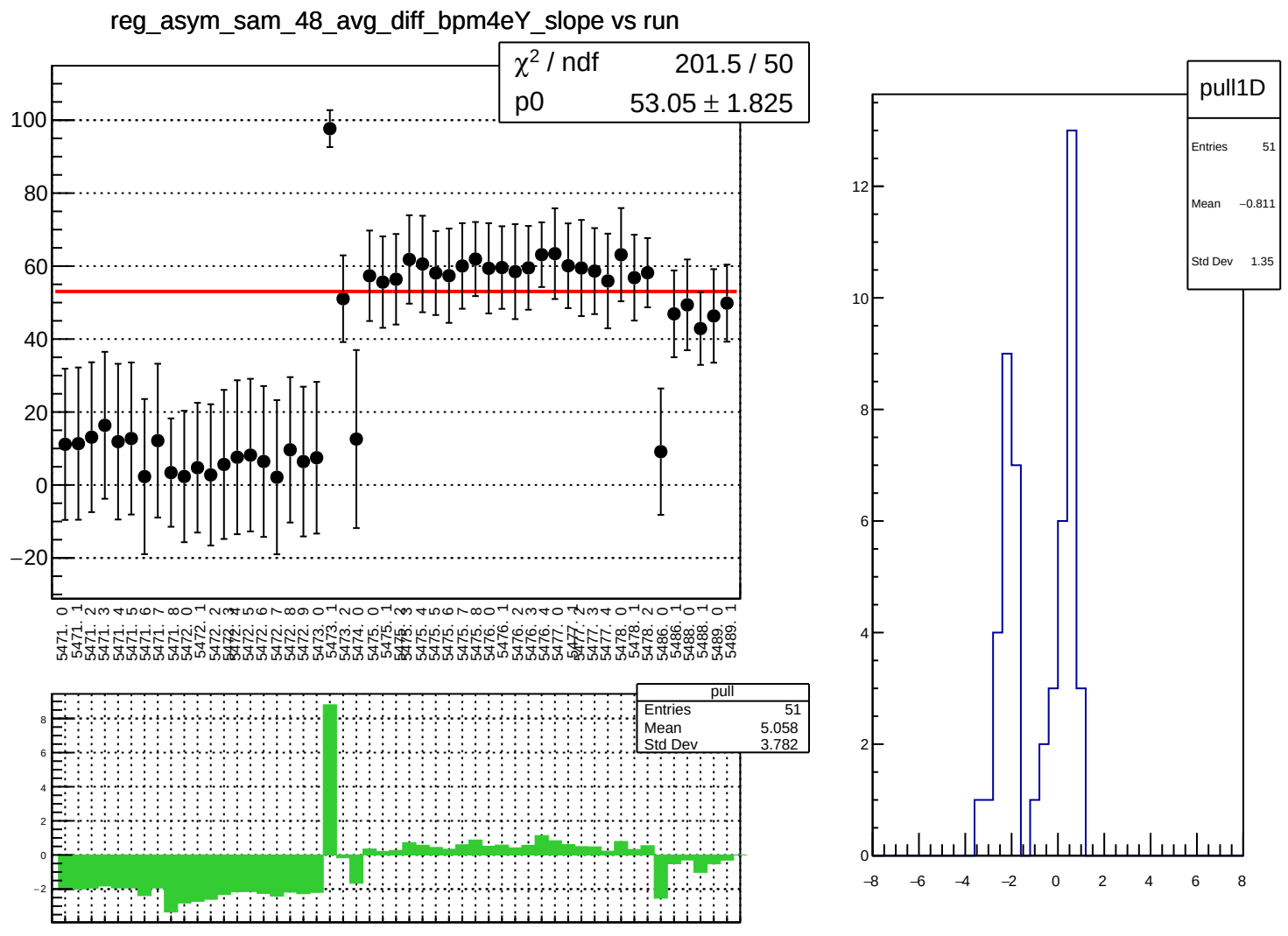

pull1D
Entries 51
Mean 0.004308
Std Dev 0.2244

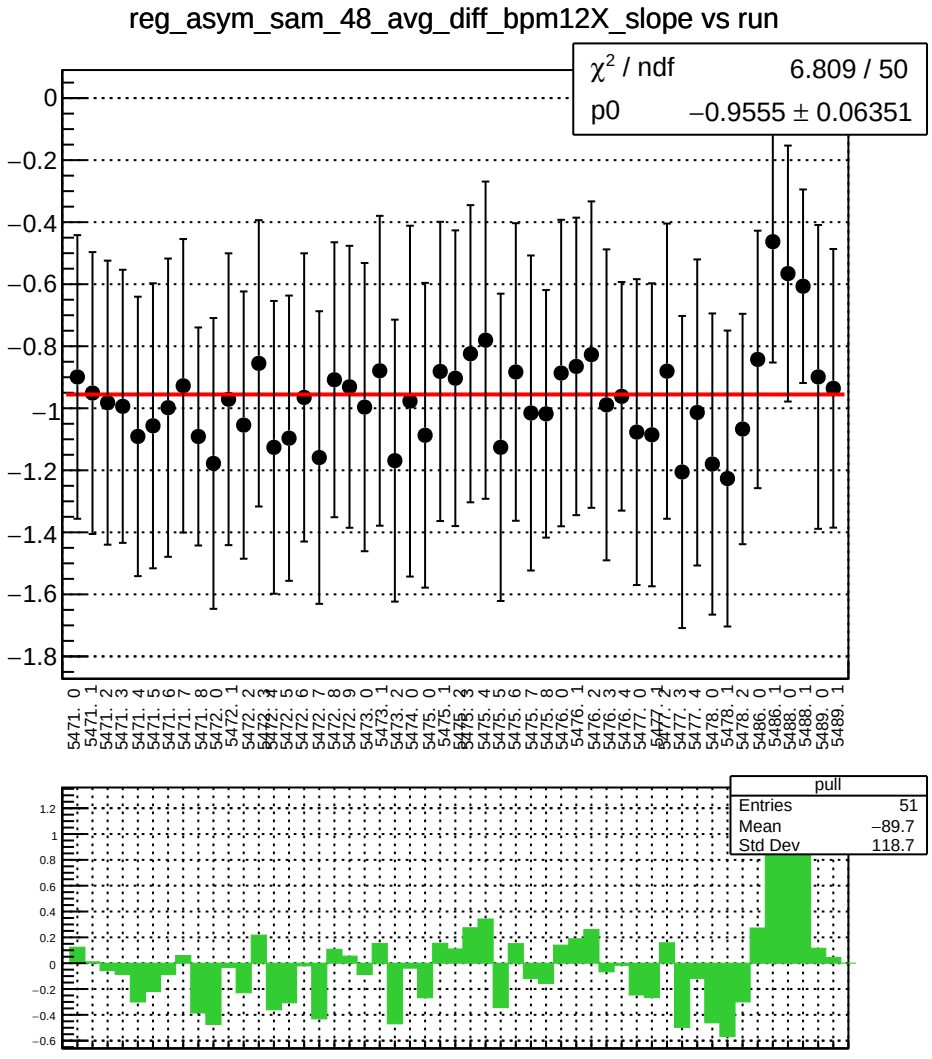

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 25.33 / 50
p0 −48.46 ± 2.588
pull
Entries 51
Mean −238.6
Std Dev 263.3

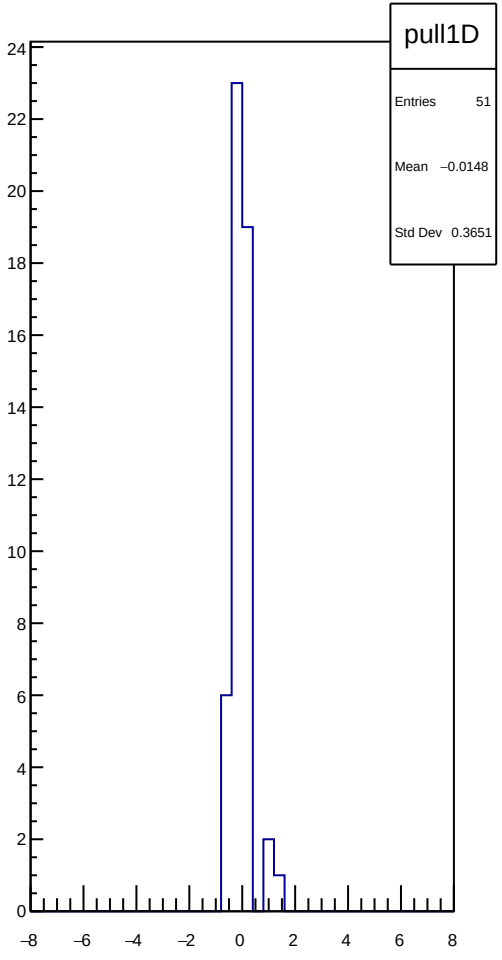

pull1D
Entries 51
Mean −0.03298
Std Dev 0.7039

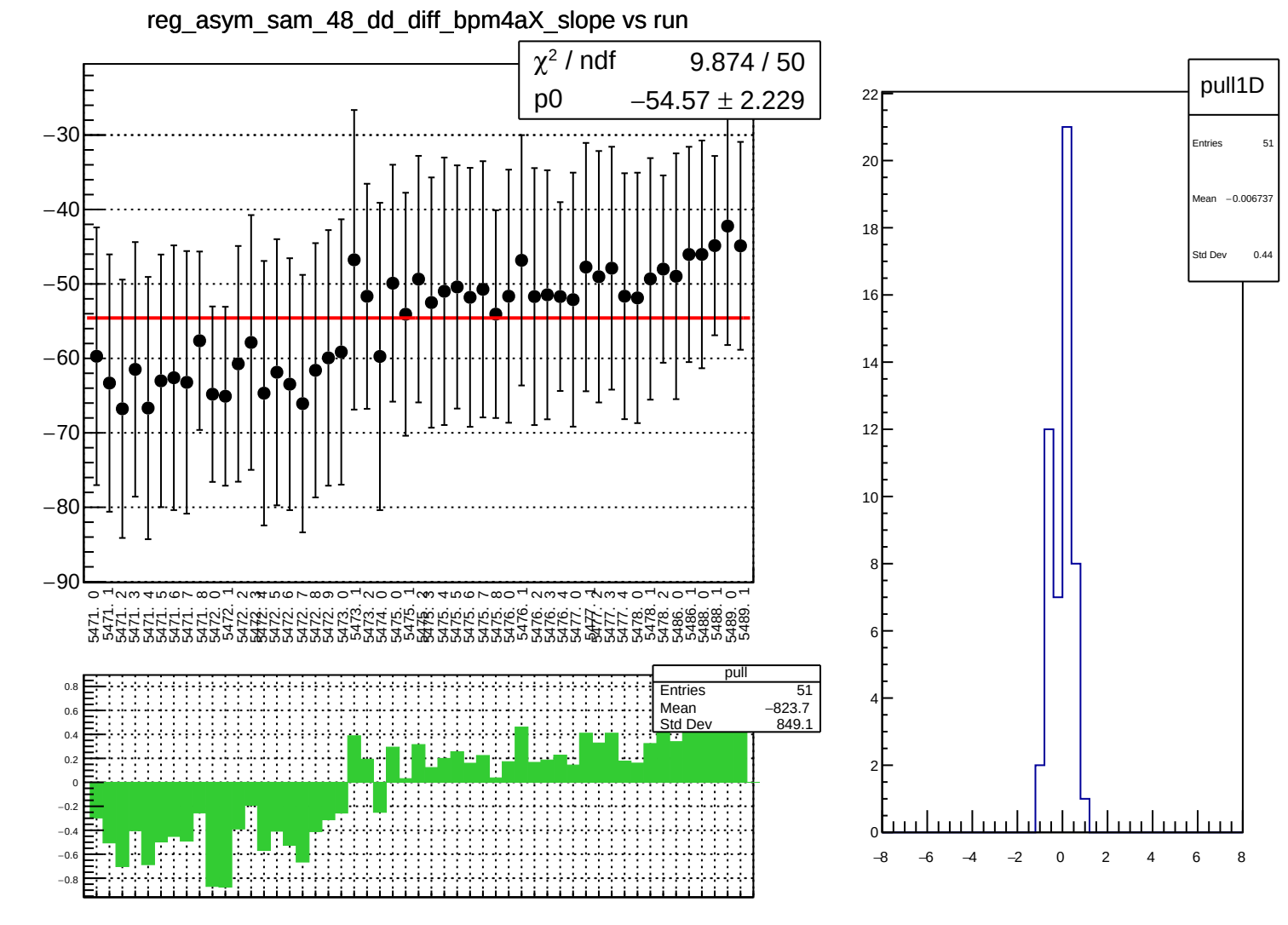

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 205.2 / 50
p0 13.06 ± 1.449
pull
Entries 51
Mean 2.804
Std Dev 11.81
pull1D
Entries 51
Mean 0.672
Std Dev 1.89

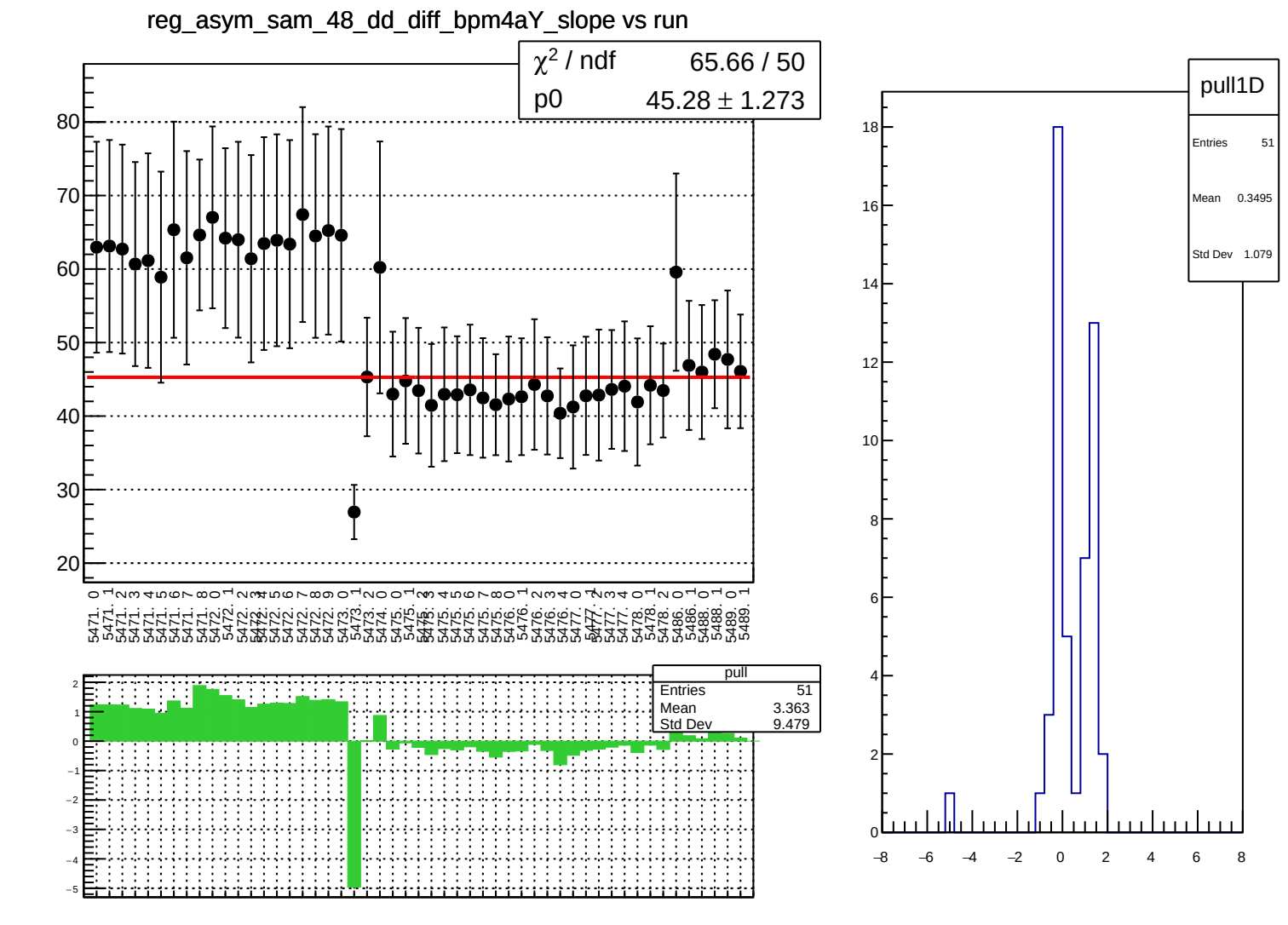

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.02 / 50
p0 −24.58 ± 2.506
pull
Entries 51
Mean −230.4
Std Dev 254.1
pull1D
Entries 51
Mean 0.02731
Std Dev 0.6101

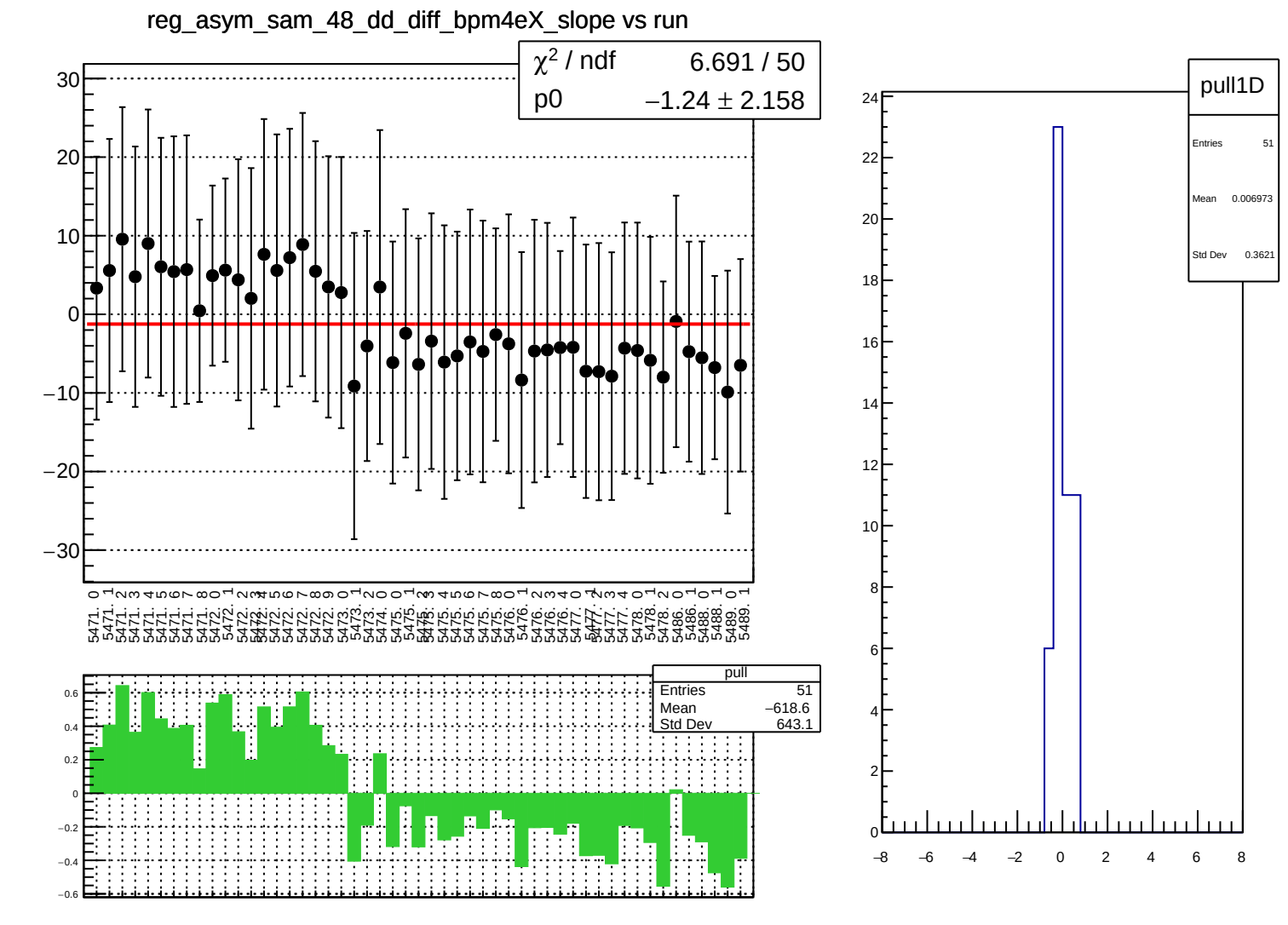

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 201.5 / 50
p0 53.05 ± 1.825
pull
Entries 51
Mean 5.058
Std Dev 3.782
pull1D
Entries 51
Mean −0.811
Std Dev 1.35

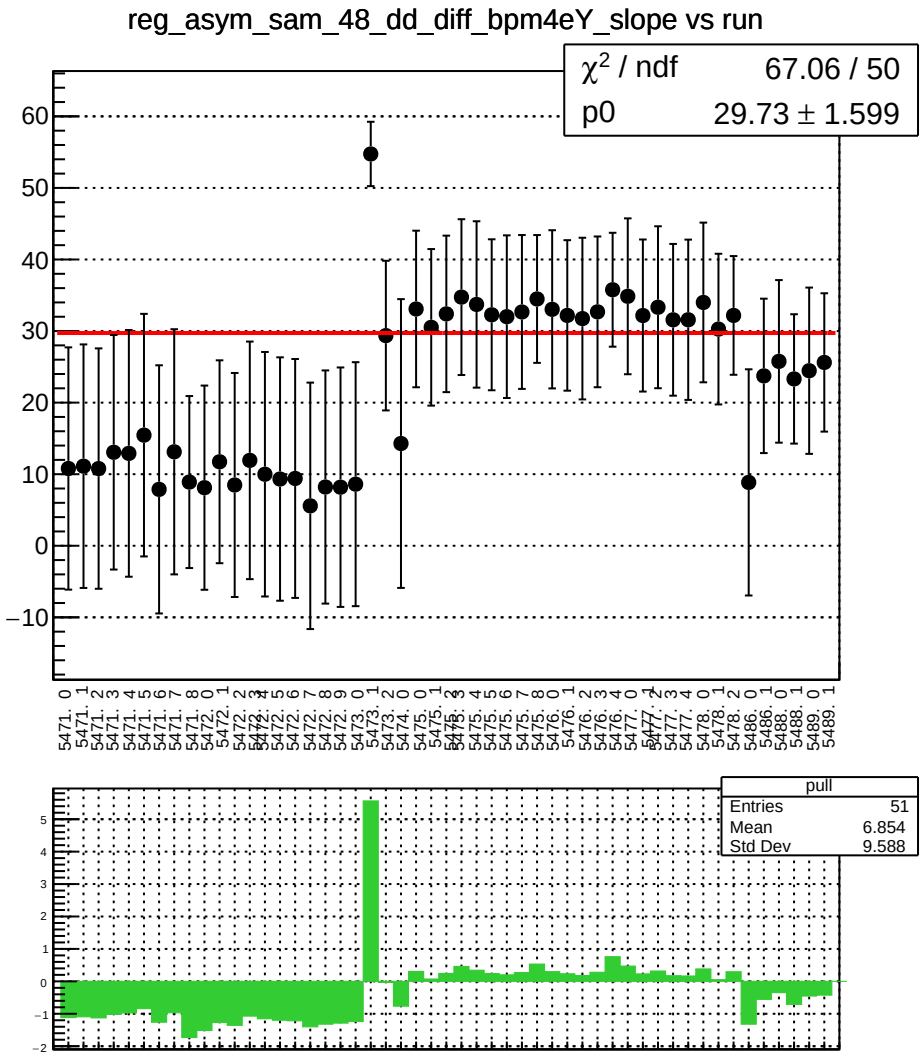

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 6.809 / 50
p0 −0.9555 ± 0.06351
pull
Entries 51
Mean −89.7
Std Dev 118.7

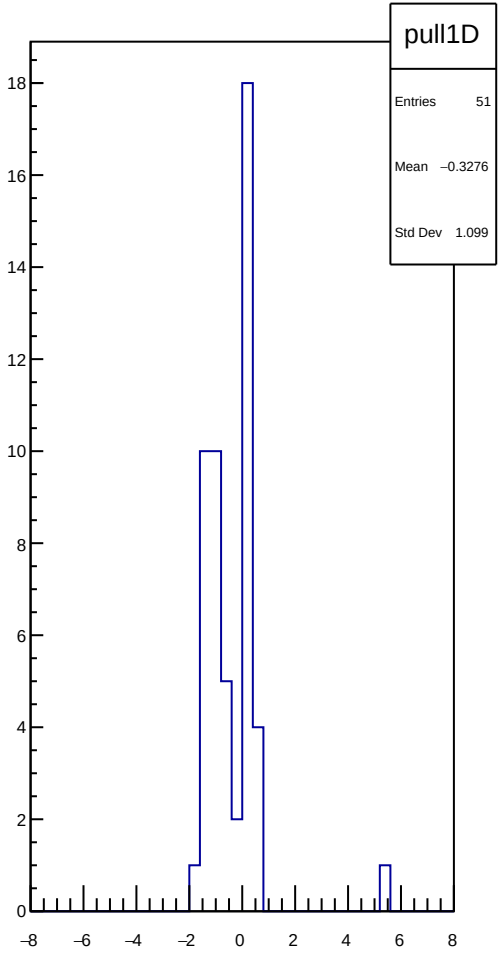

pull1D
Entries 51
Mean −0.0148
Std Dev 0.3651

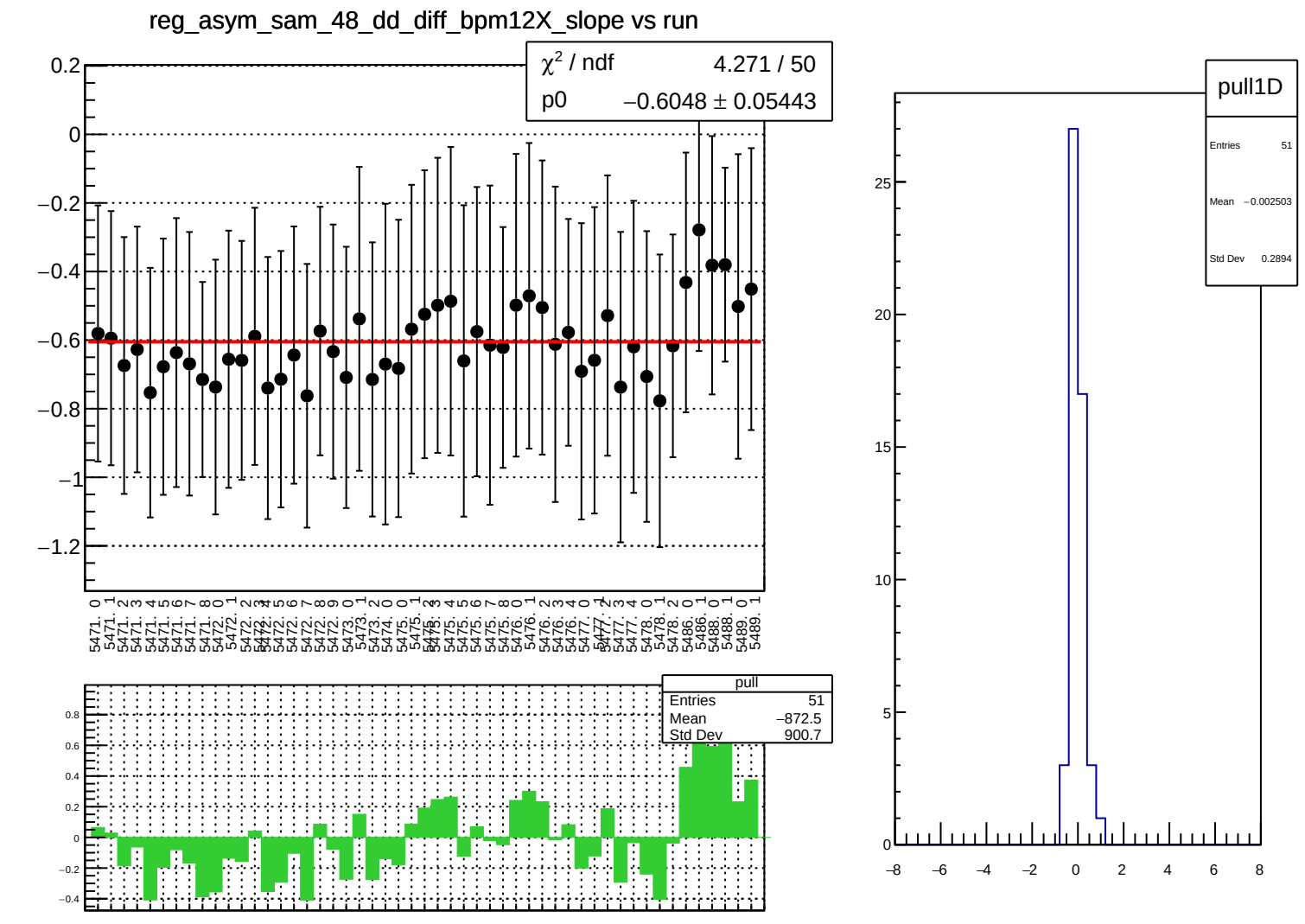

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.874 / 50
p0 −54.57 ± 2.229
pull
Entries 51
Mean −823.7
Std Dev 849.1
pull1D
Entries 51
Mean −0.006737
Std Dev 0.44

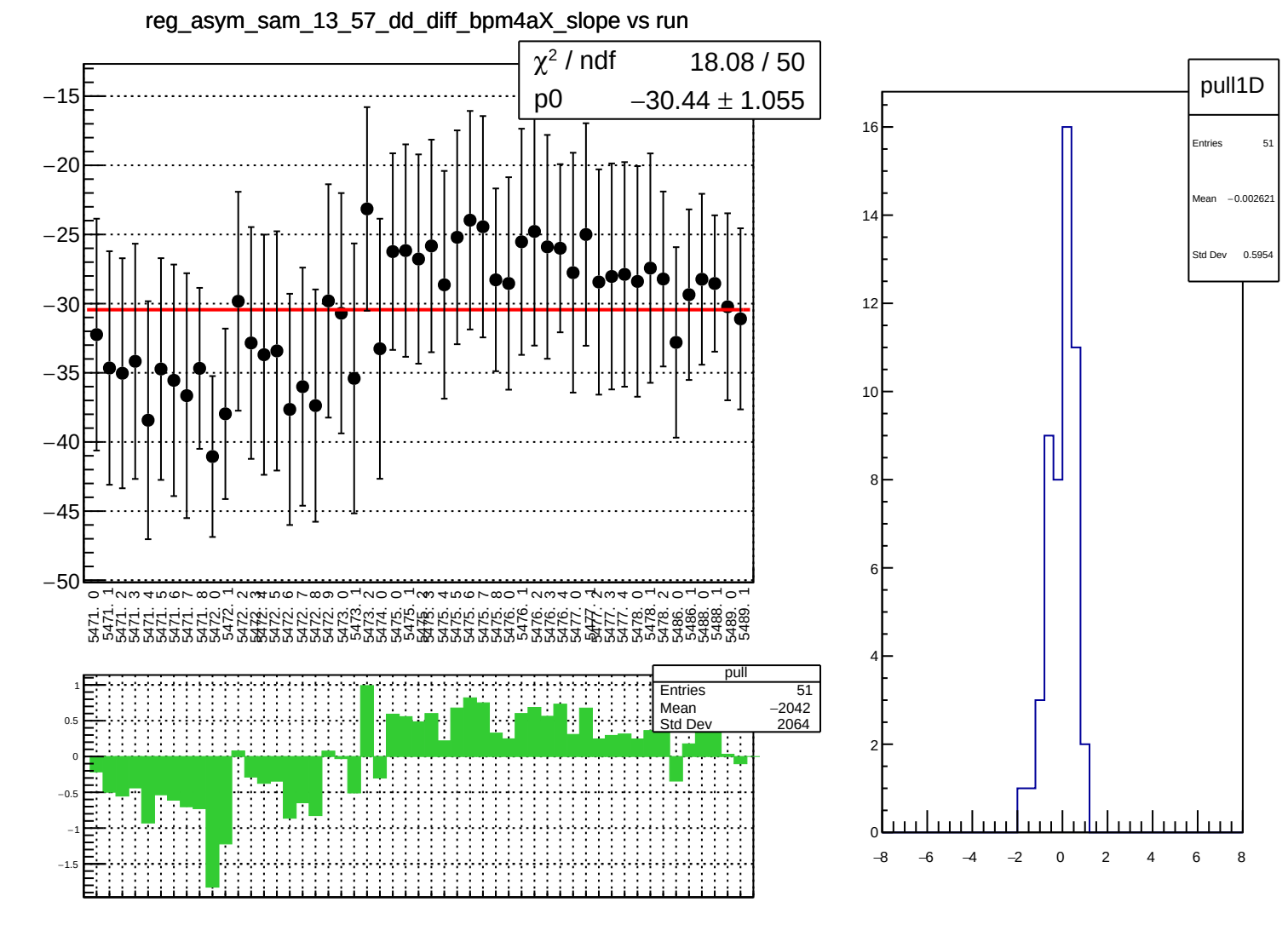

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.66 / 50
p0 45.28 ± 1.273
pull
Entries 51
Mean 3.363
Std Dev 9.479
pull1D
Entries 51
Mean 0.3495
Std Dev 1.079

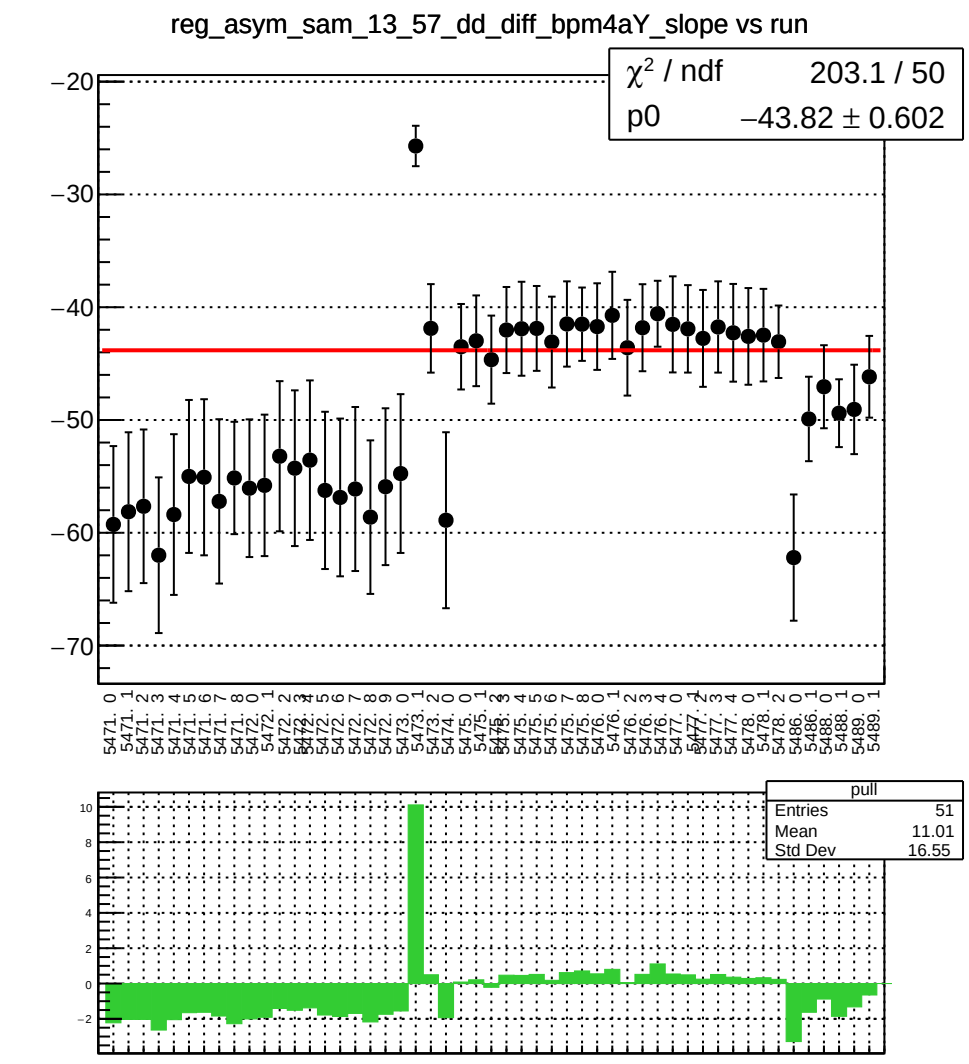

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.691 / 50
p0 −1.24 ± 2.158
pull
Entries 51
Mean −618.6
Std Dev 643.1
pull1D
Entries 51
Mean 0.006973
Std Dev 0.3621

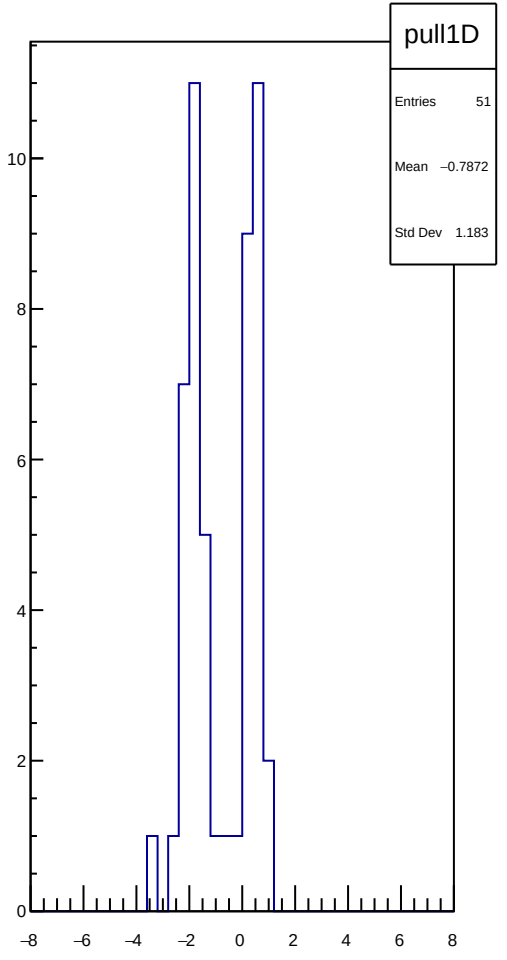

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.06 / 50
p0 29.73 ± 1.599
pull
Entries 51
Mean 6.854
Std Dev 9.588

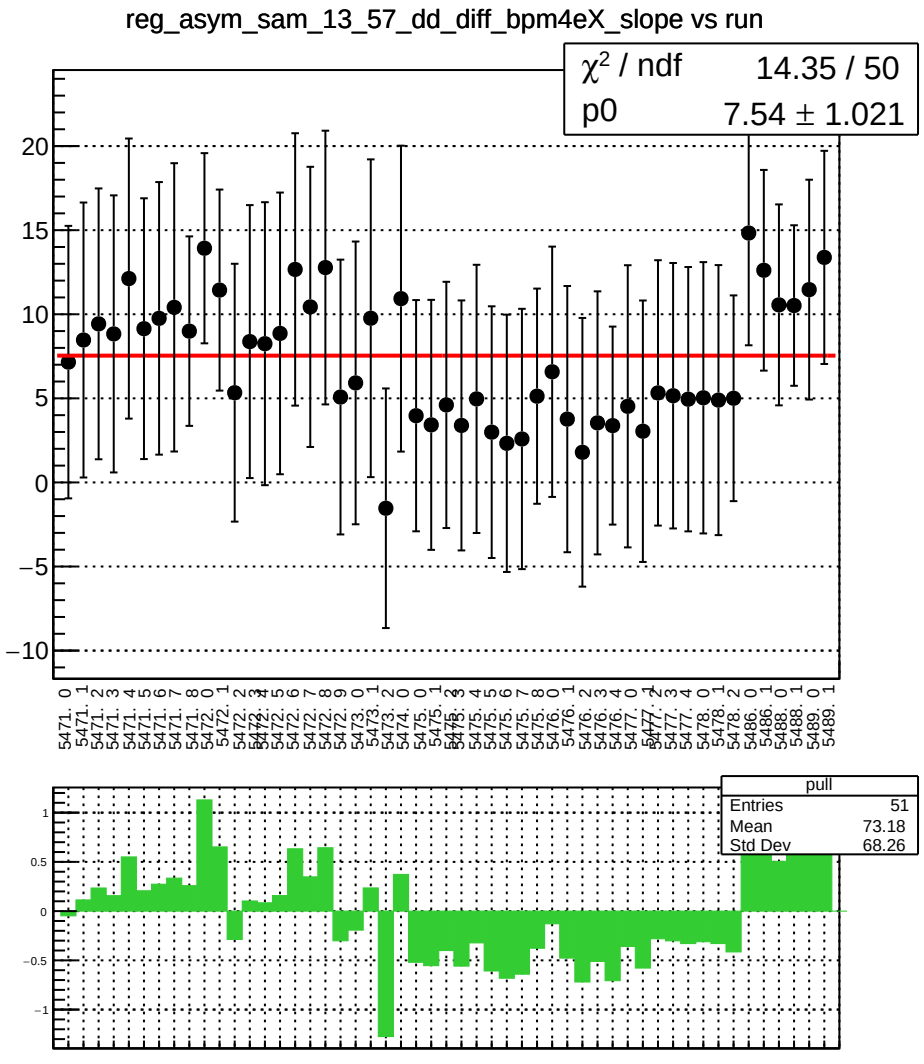

pull1D
Entries 51
Mean −0.3276
Std Dev 1.099

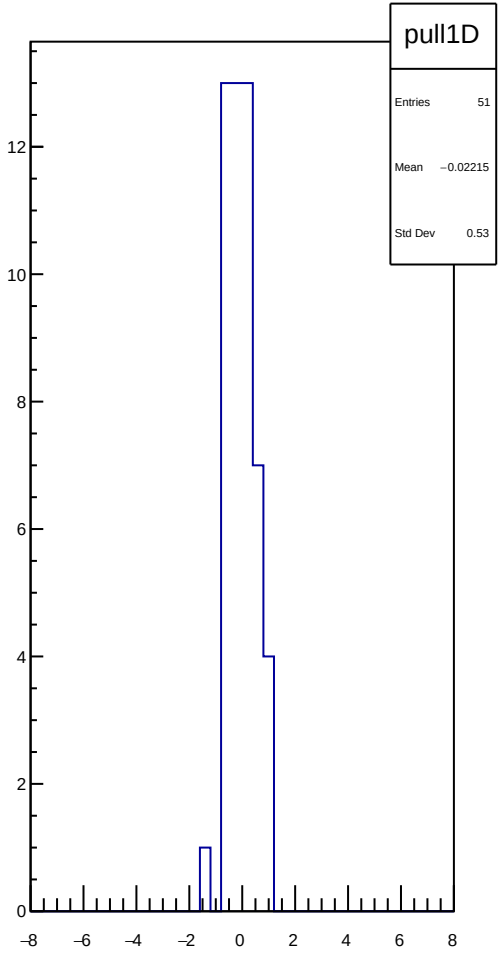

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.271 / 50
p0 −0.6048 ± 0.05443
pull
Entries 51
Mean −872.5
Std Dev 900.7
pull1D
Entries 51
Mean −0.002503
Std Dev 0.2894

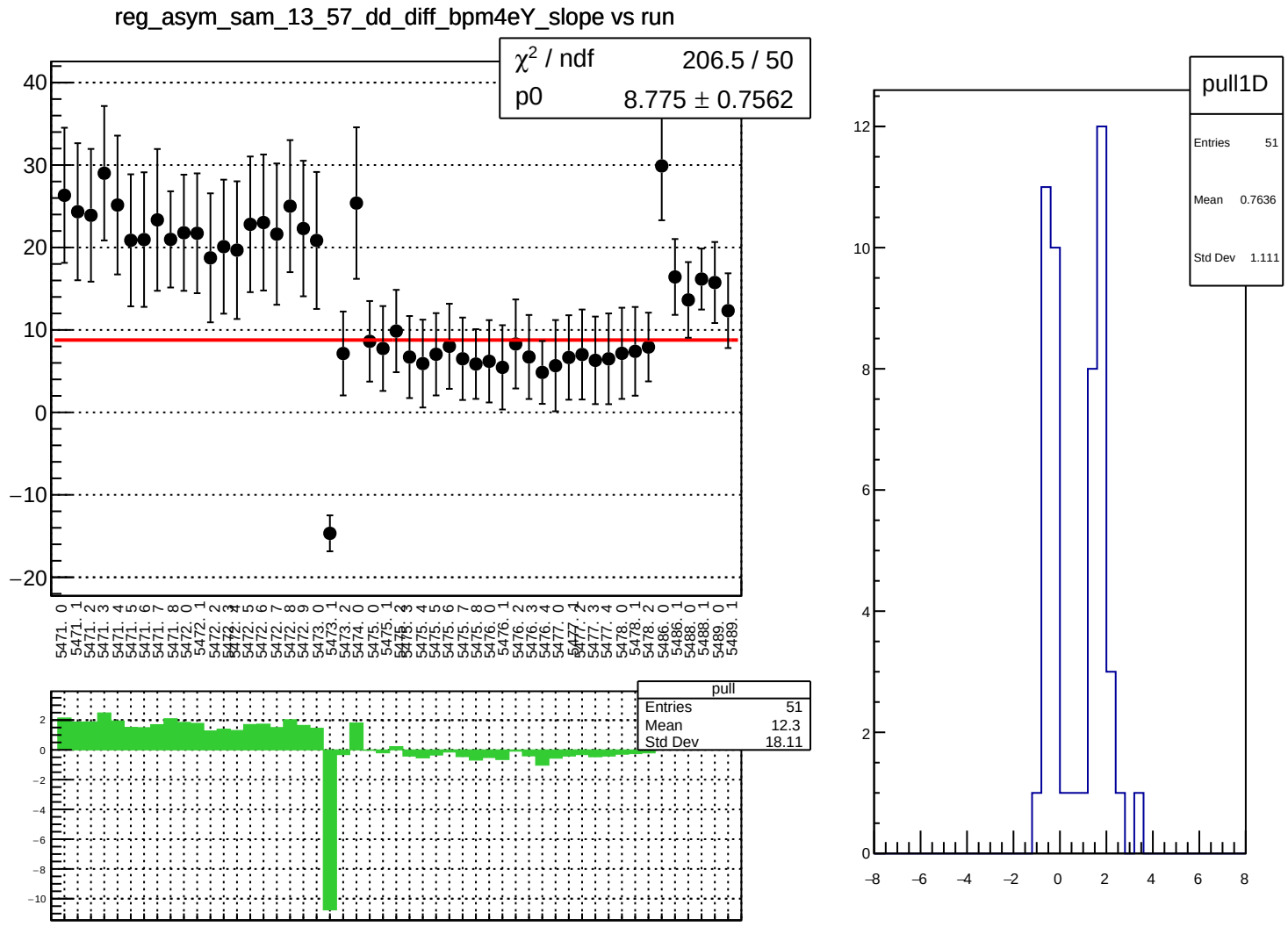

reg_asym_sam_13_57_dd_diff_bpm4aX_slope vs run
χ² / ndf 18.08 / 50
p0 −30.44 ± 1.055
pull
Entries 51
Mean −2042
Std Dev 2064
pull1D
Entries 51
Mean −0.002621
Std Dev 0.5954

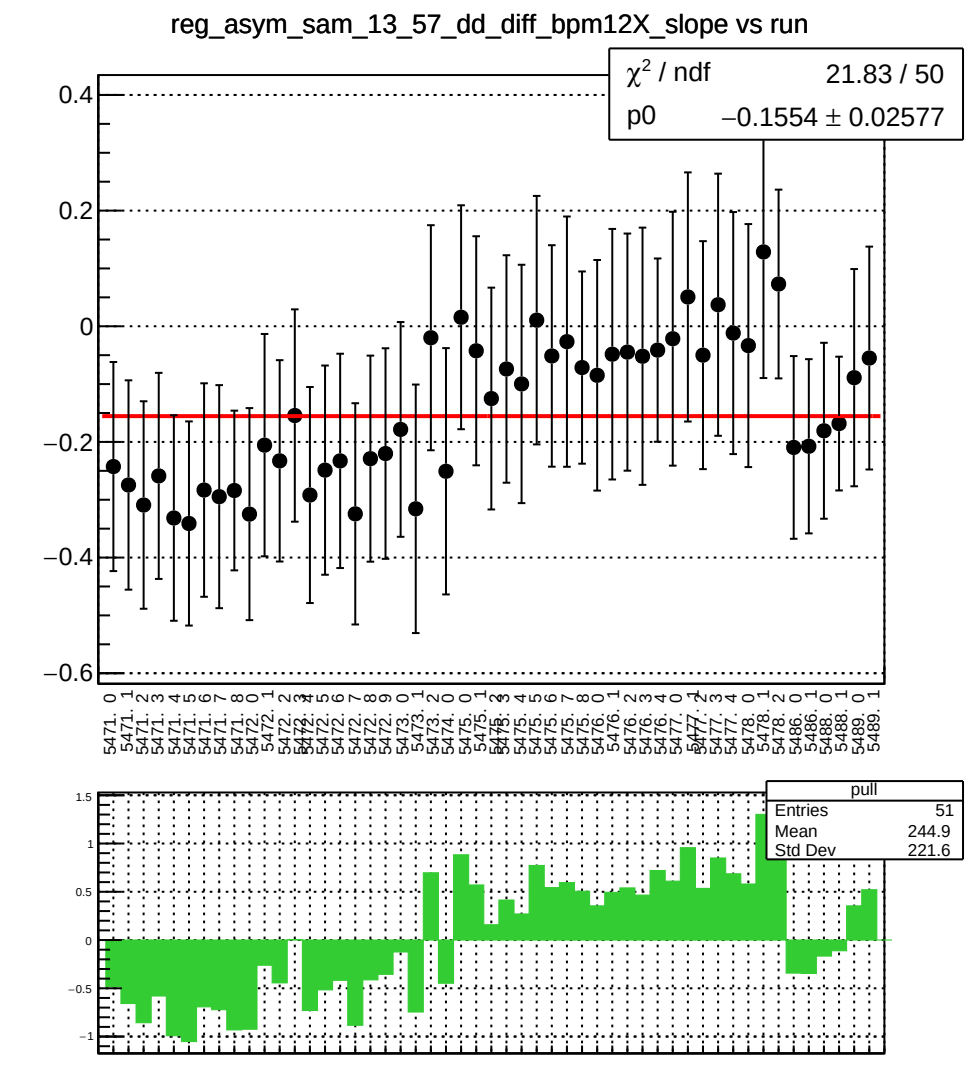

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 203.1 / 50
p0 −43.82 ± 0.602
pull
Entries 51
Mean 11.01
Std Dev 16.55

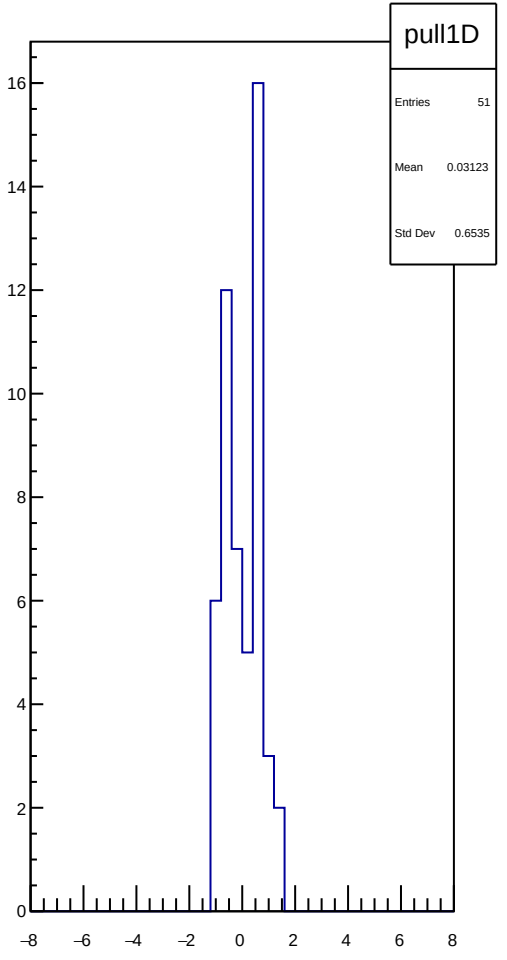

pull1D
Entries 51
Mean −0.7872
Std Dev 1.183

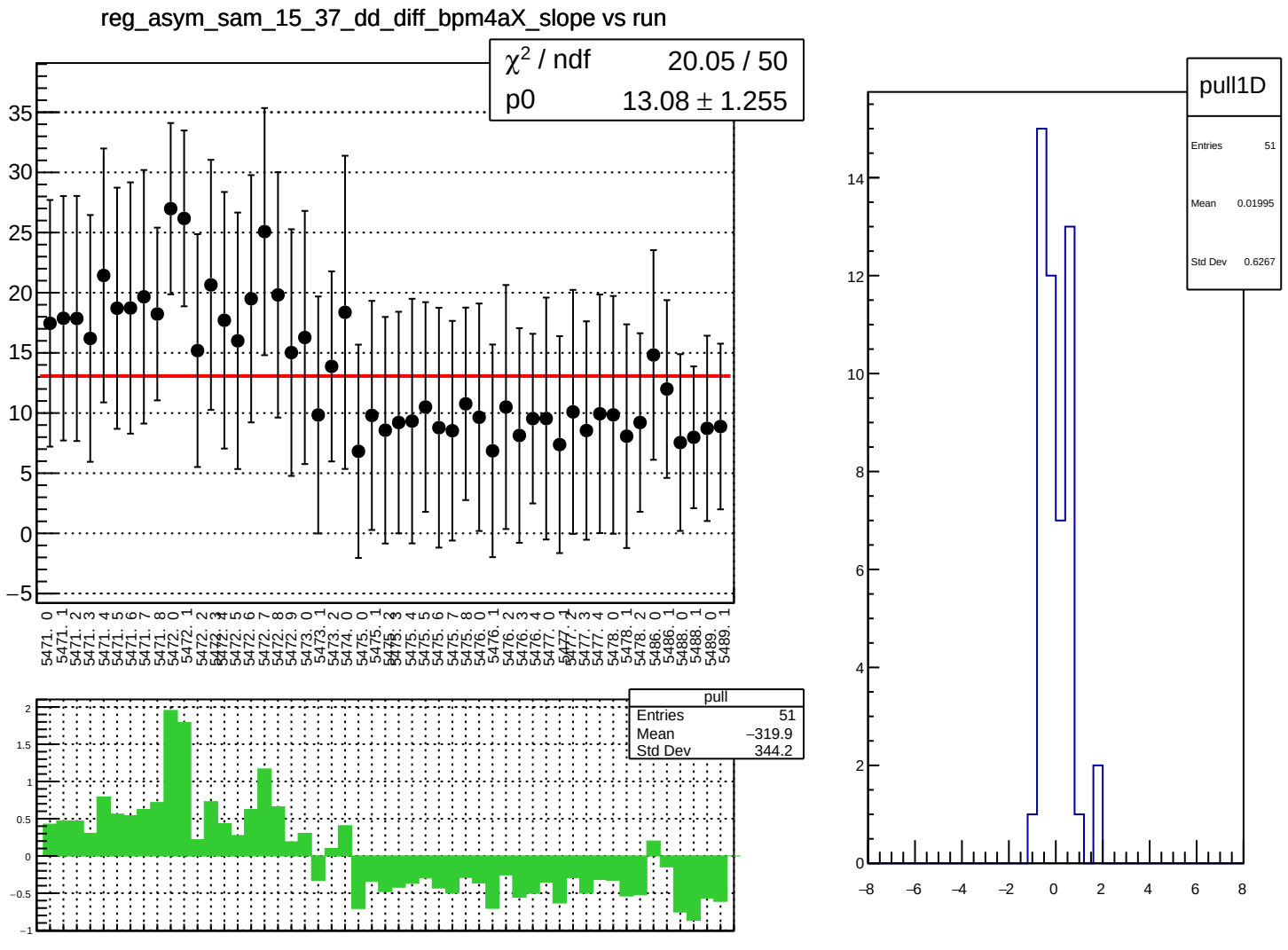

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.35 / 50
p0 7.54 ± 1.021
pull
Entries 51
Mean 73.18
Std Dev 68.26

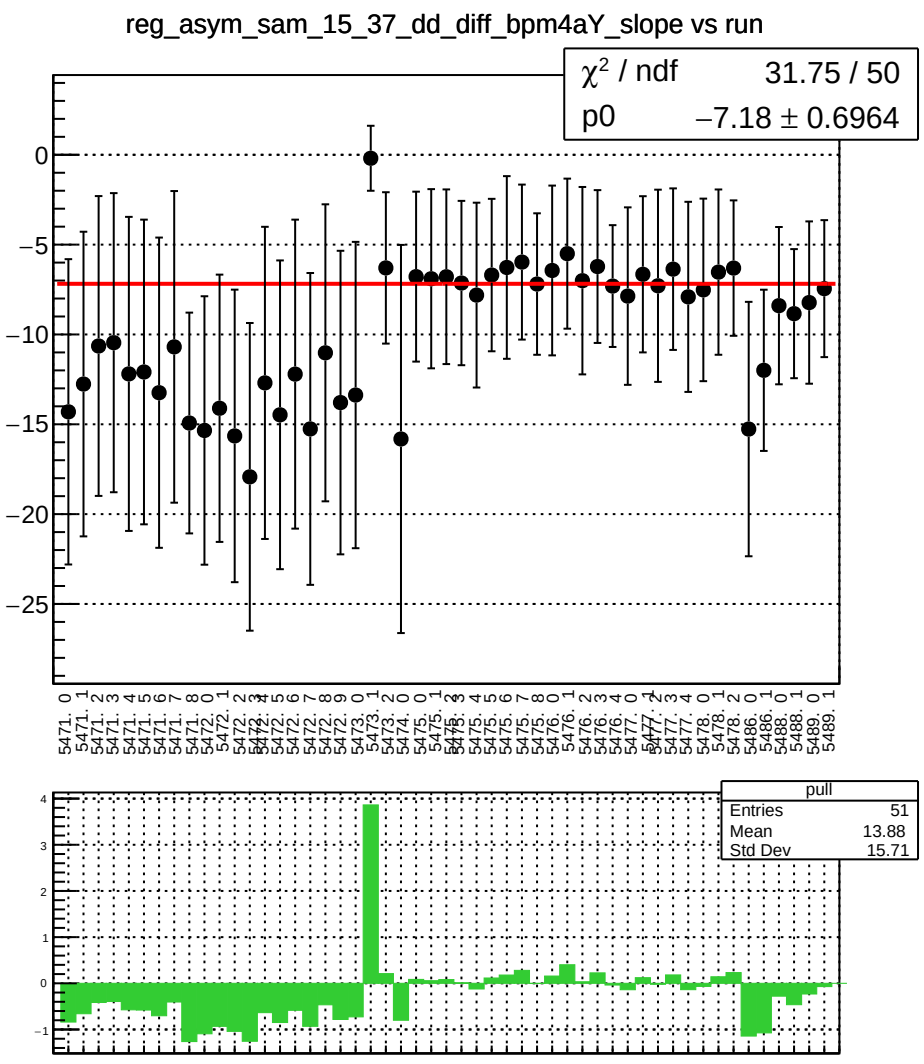

pull1D
Entries 51
Mean −0.02215
Std Dev 0.53

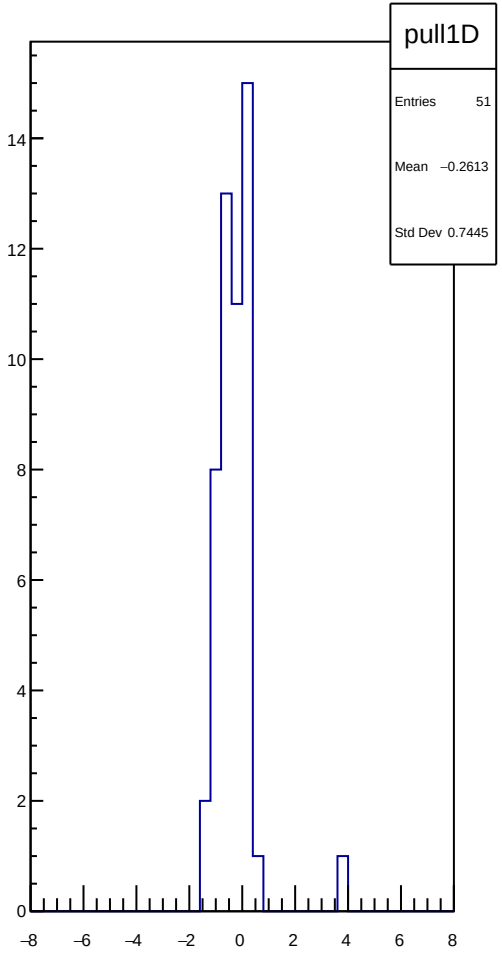

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 206.5 / 50
p0 8.775 ± 0.7562
pull
Entries 51
Mean 12.3
Std Dev 18.11
pull1D
Entries 51
Mean 0.7636
Std Dev 1.111

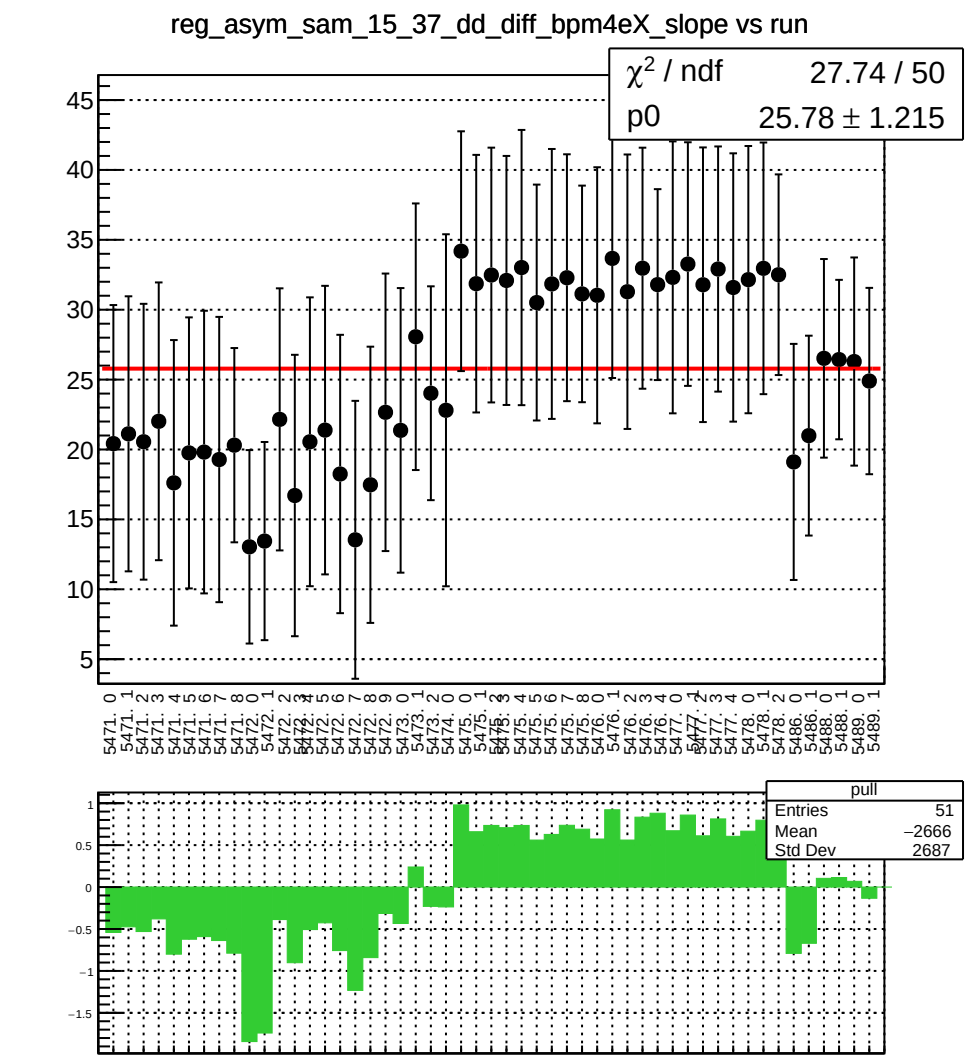

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 21.83 / 50
p0 −0.1554 ± 0.02577
pull
Entries 51
Mean 244.9
Std Dev 221.6

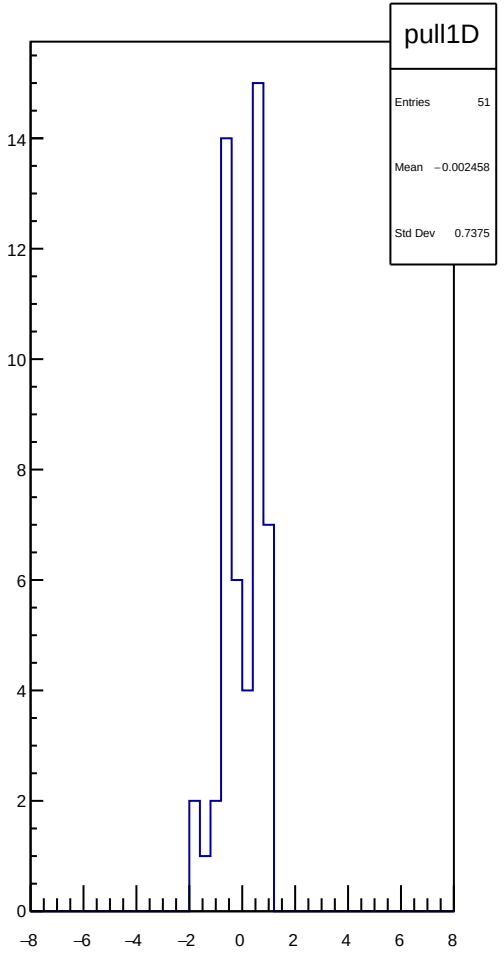

pull1D
Entries 51
Mean 0.03123
Std Dev 0.6535

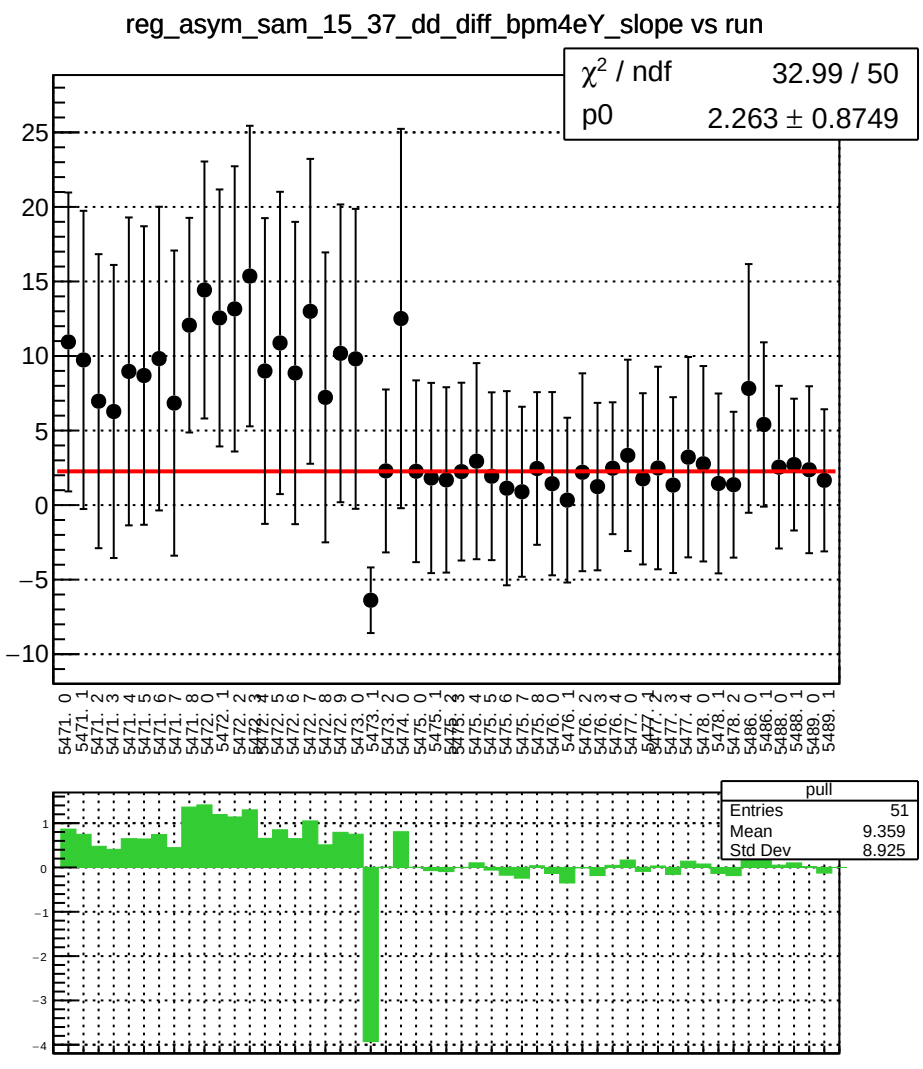

reg_asym_sam_15_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 20.05 / 50
p0 13.08 ± 1.255
pull
Entries 51
Mean −319.9
Std Dev 344.2
pull1D
Entries 51
Mean 0.01995
Std Dev 0.6267

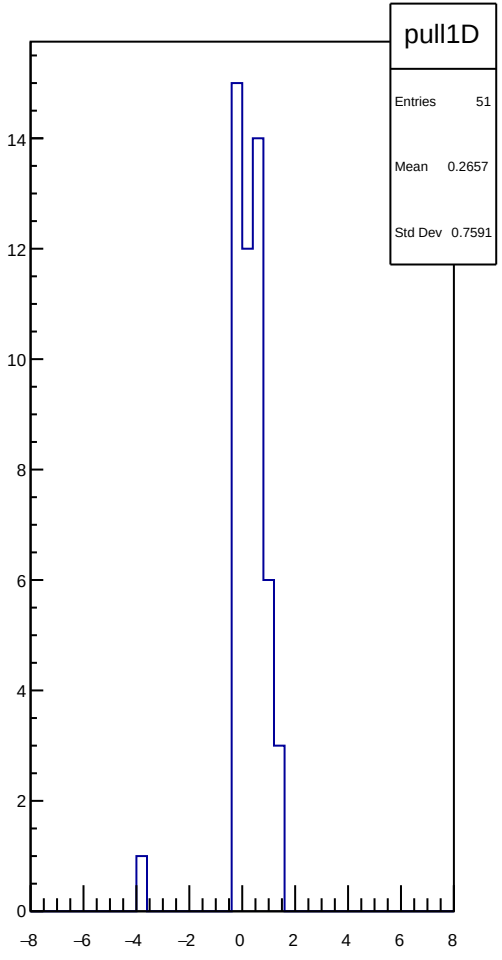

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.75 / 50
p0 −7.18 ± 0.6964
pull
Entries 51
Mean 13.88
Std Dev 15.71

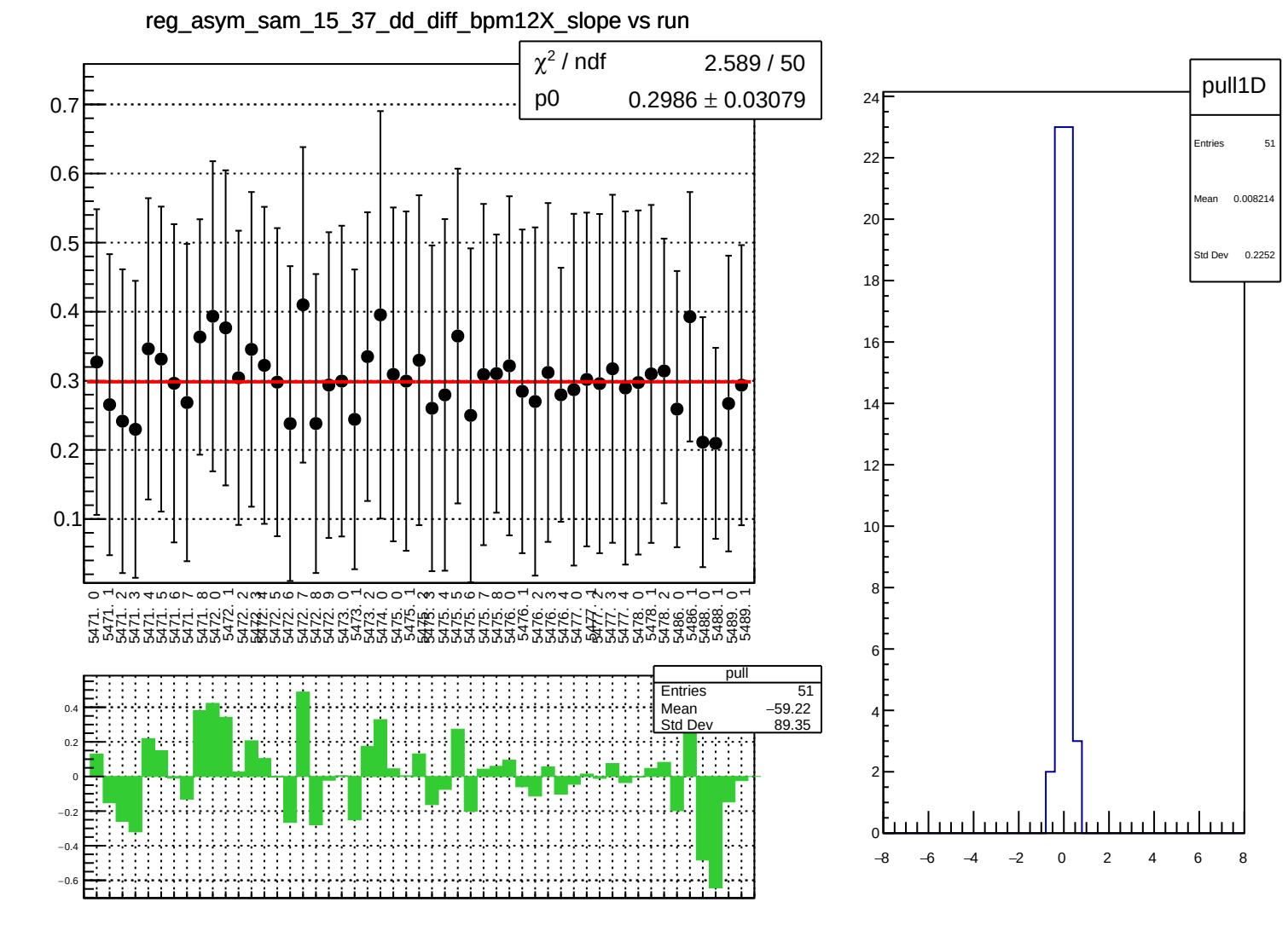

pull1D
Entries 51
Mean −0.2613
Std Dev 0.7445

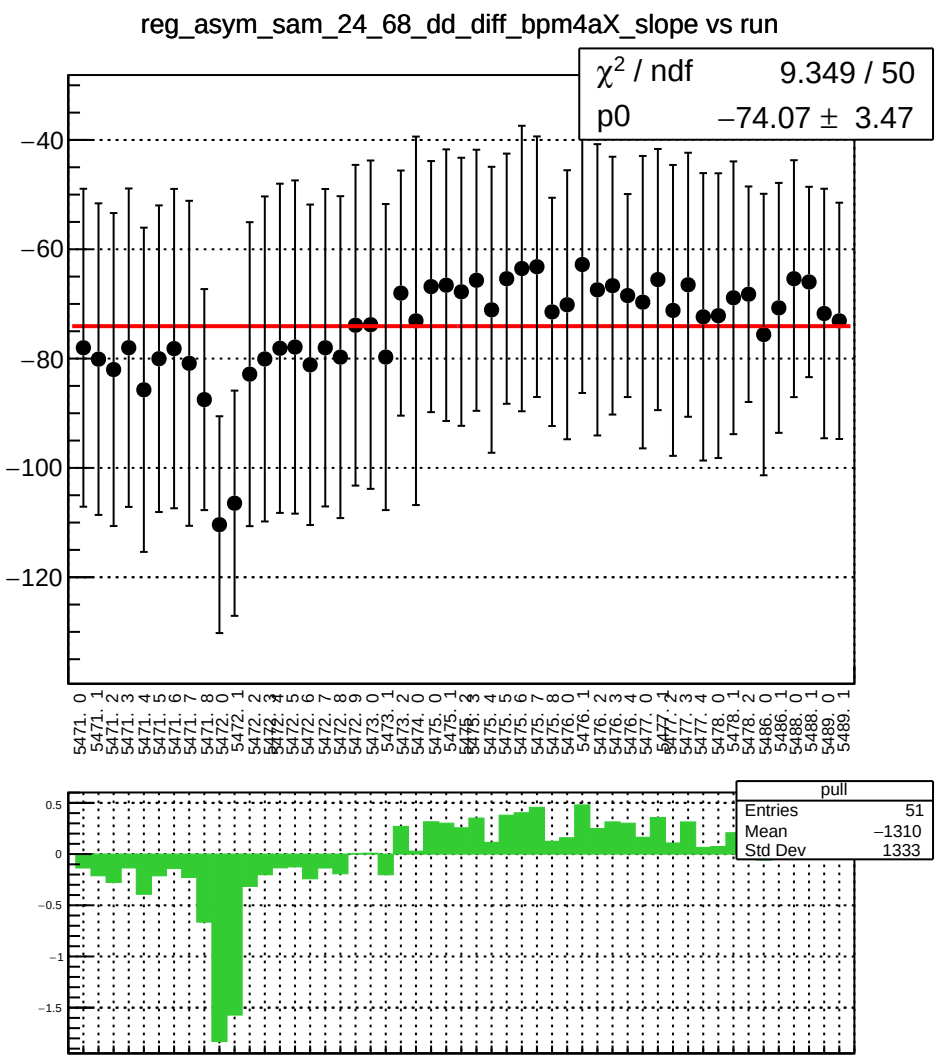

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.74 / 50
p0 25.78 ± 1.215
pull
Entries 51
Mean −2666
Std Dev 2687

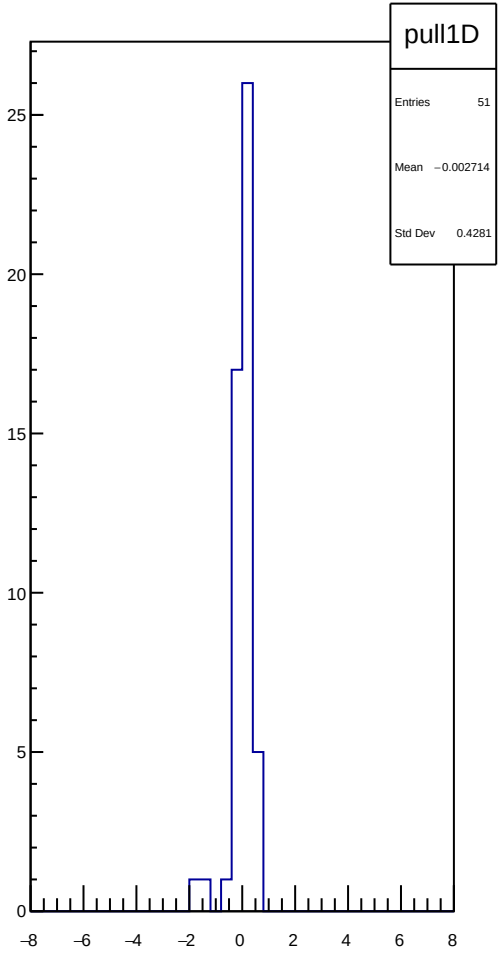

pull1D
Entries 51
Mean −0.002458
Std Dev 0.7375

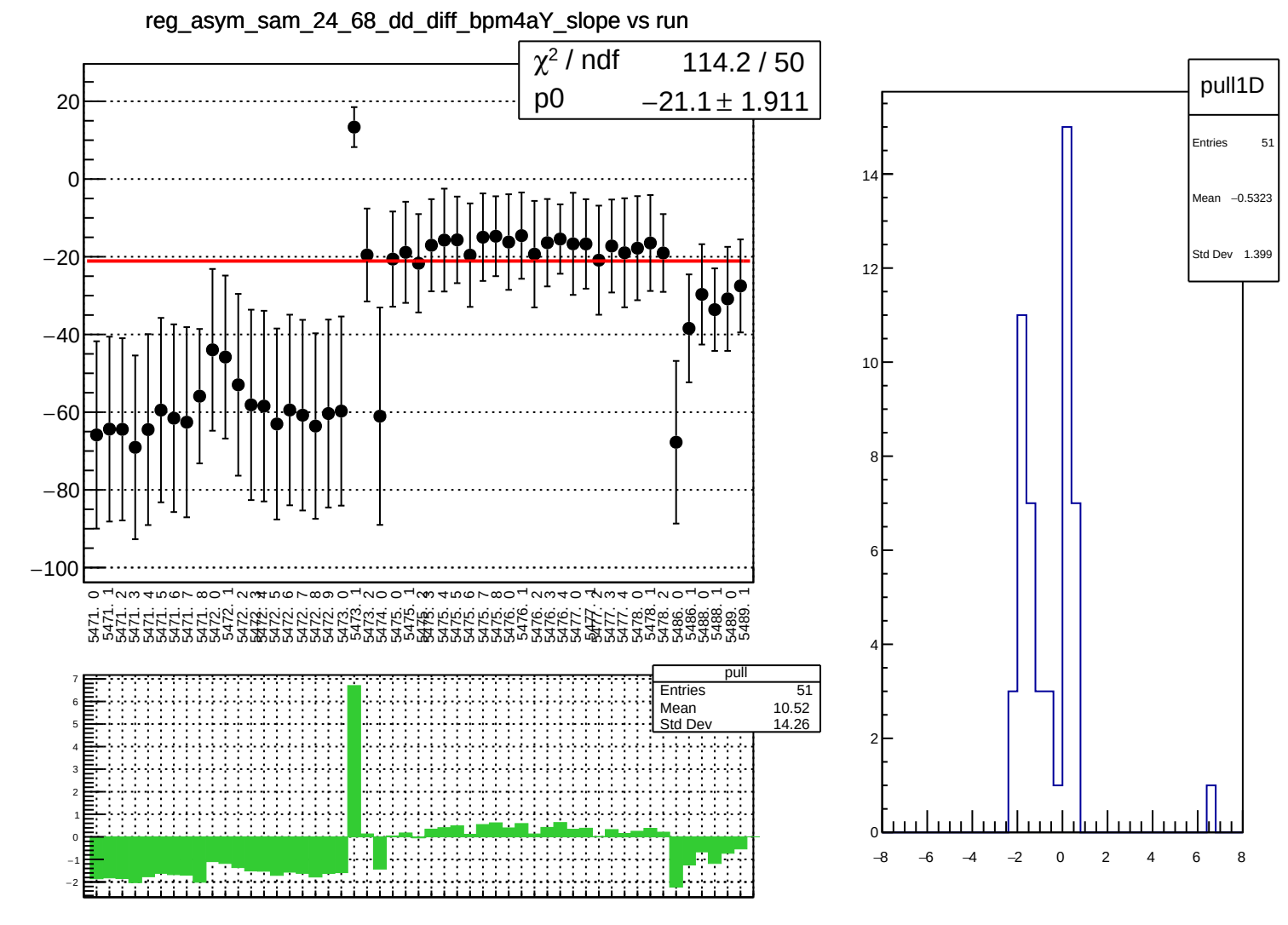

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.99 / 50
p0 2.263 ± 0.8749
pull
Entries 51
Mean 9.359
Std Dev 8.925

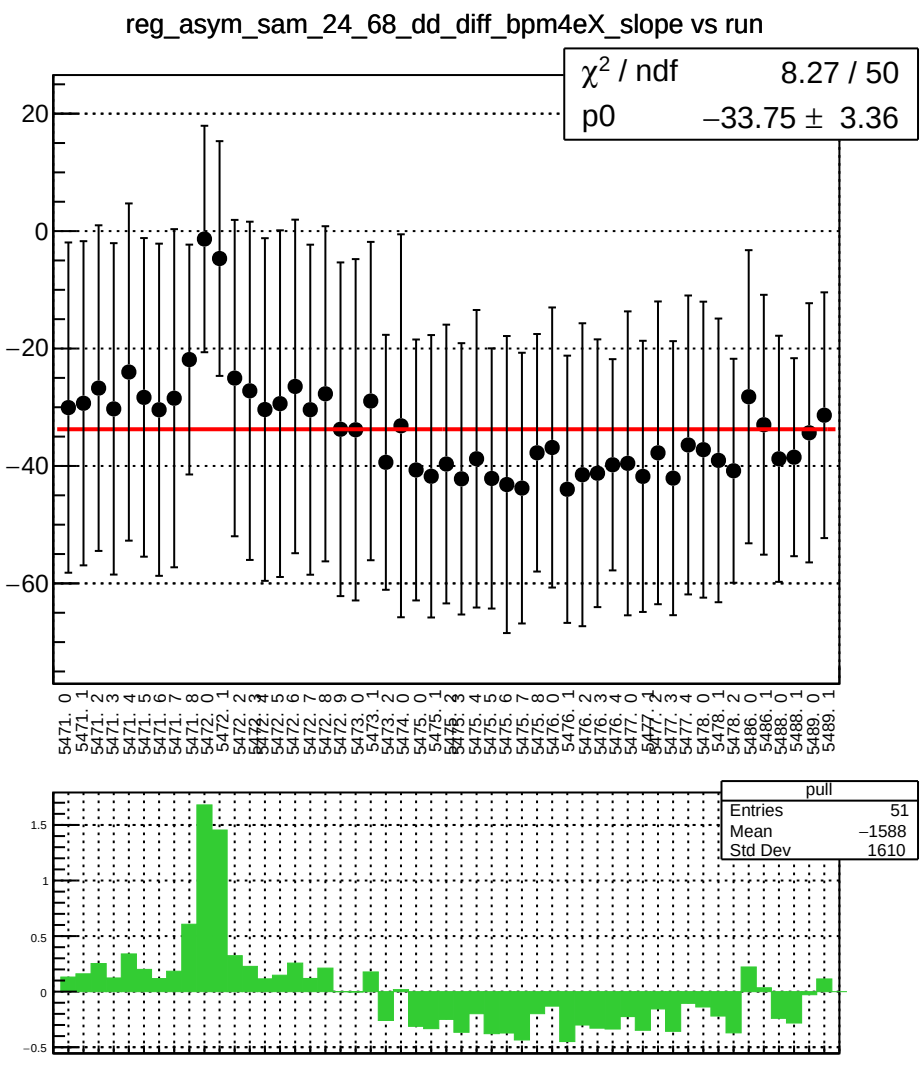

pull1D
Entries 51
Mean 0.2657
Std Dev 0.7591

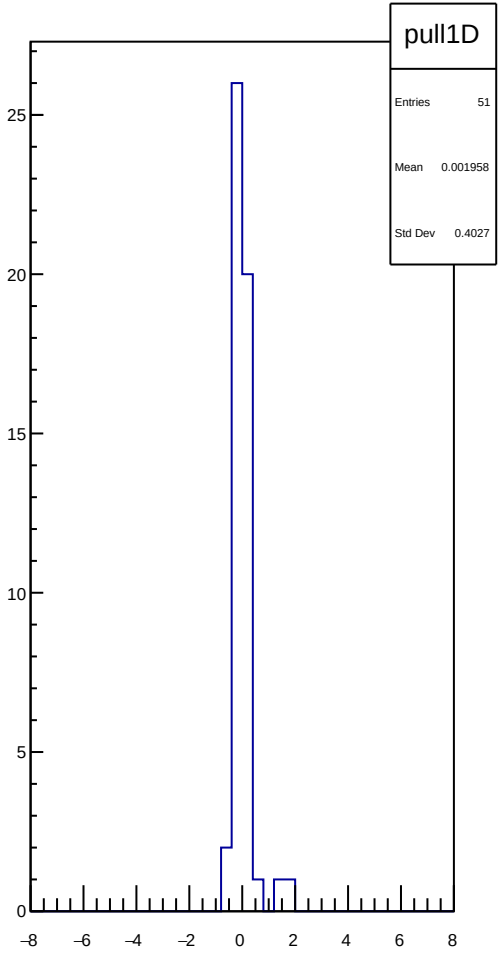

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.589 / 50
p0 0.2986 ± 0.03079
pull
Entries 51
Mean −59.22
Std Dev 89.35
pull1D
Entries 51
Mean 0.008214
Std Dev 0.2252

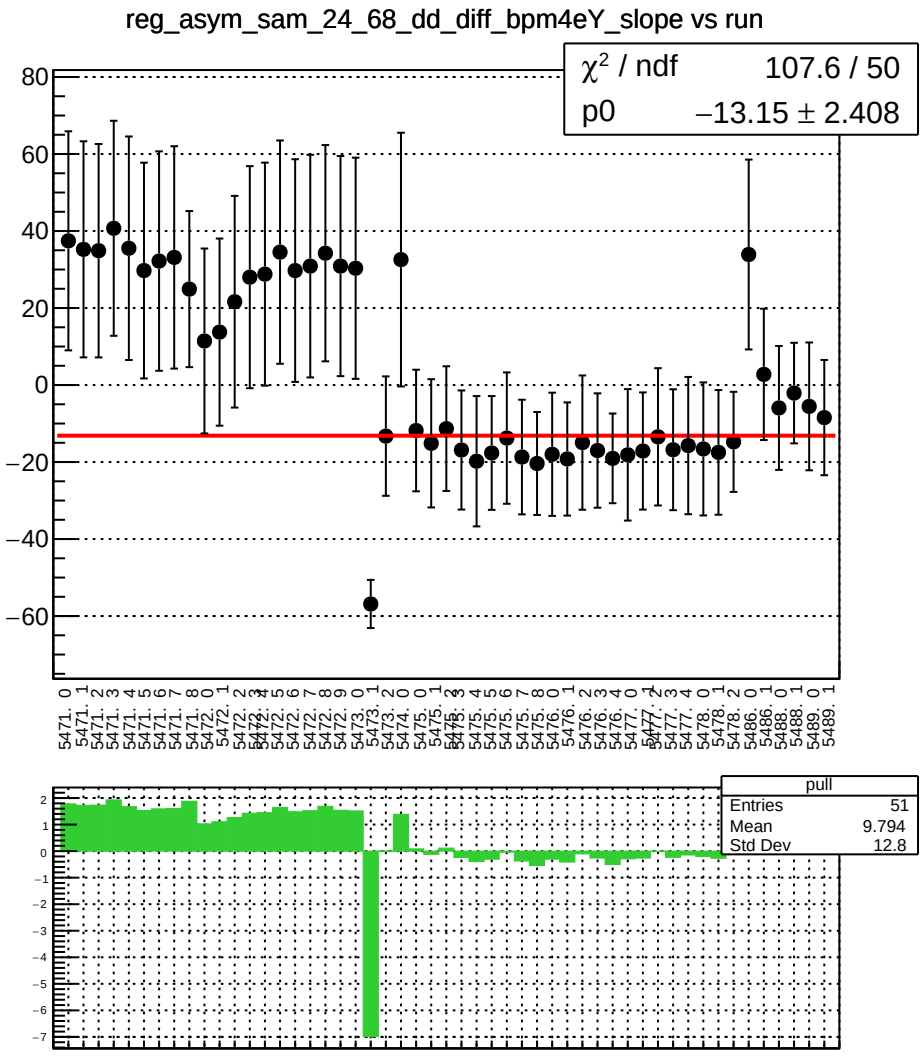

reg_asym_sam_24_68_dd_diff_bpm4aX_slope vs run
χ² / ndf 9.349 / 50
p0 −74.07 ± 3.47
−40
−60
−80
−100
−120
pull
Entries 51
Mean −1310
Std Dev 1333
0.5
0
−0.5
−1
−1.5

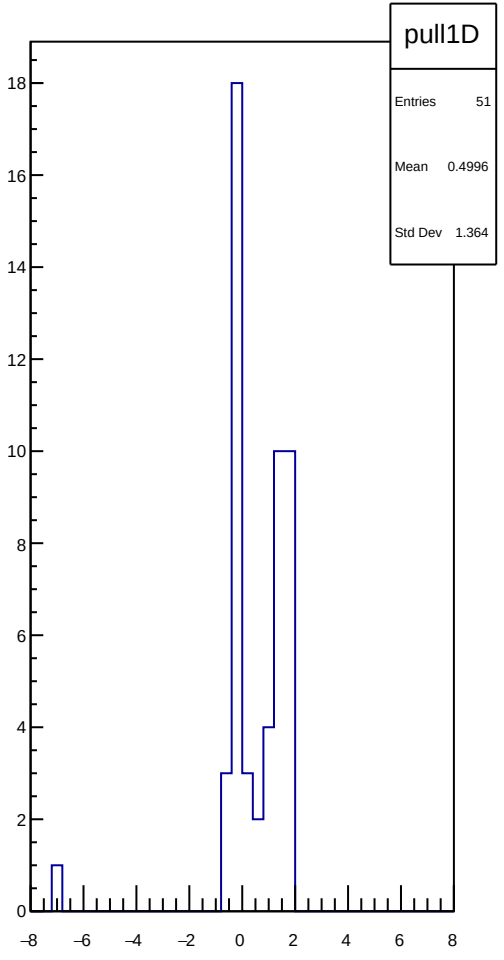

pull1D
Entries 51
Mean −0.002714
Std Dev 0.4281
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

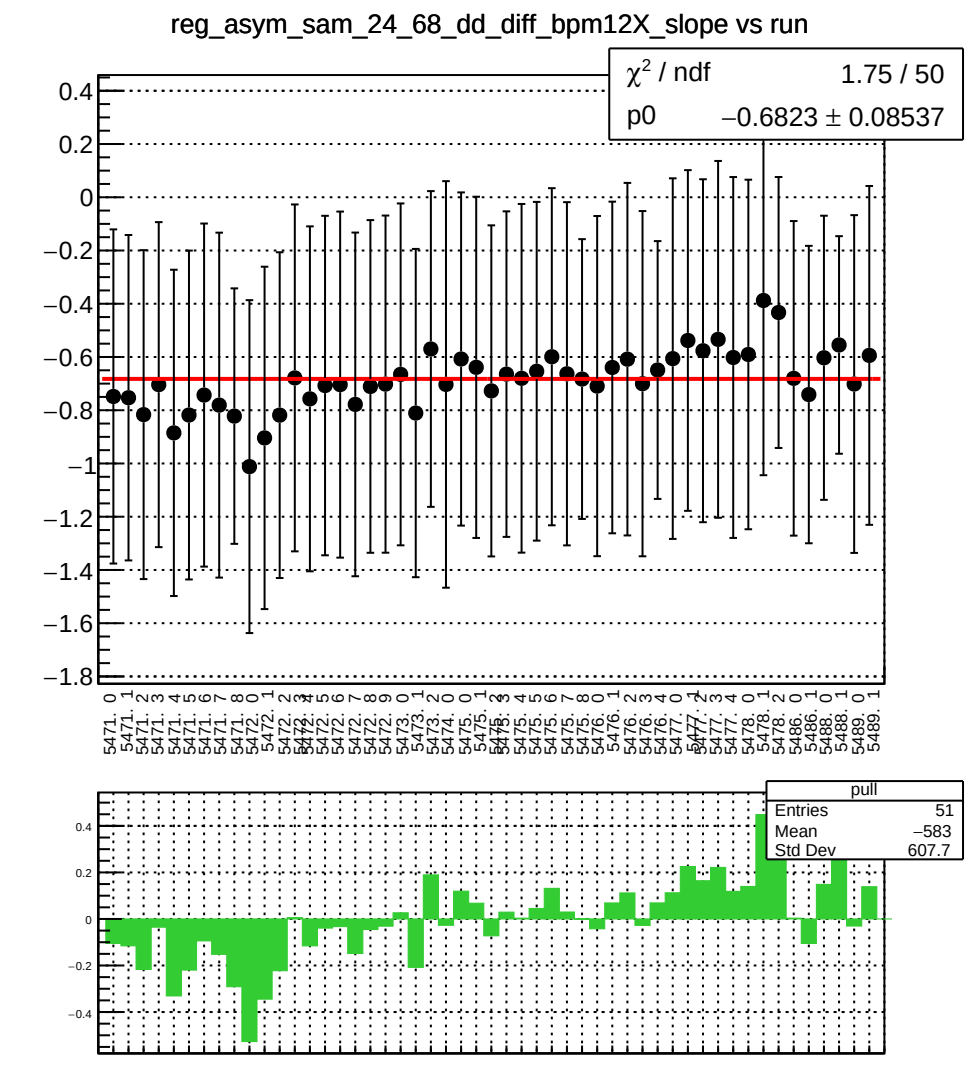

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 114.2 / 50
p0 −21.1 ± 1.911
pull
Entries 51
Mean 10.52
Std Dev 14.26
pull1D
Entries 51
Mean −0.5323
Std Dev 1.399

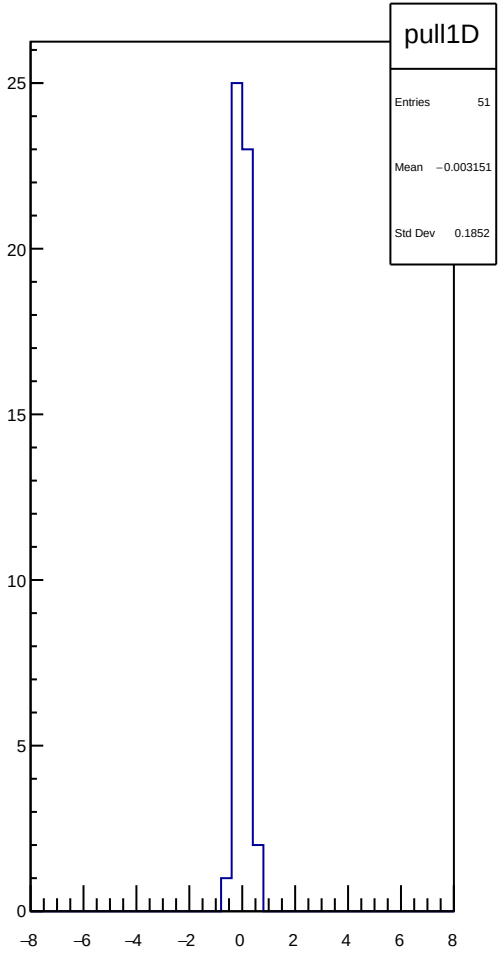

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.27 / 50
p0 −33.75 ± 3.36
pull
Entries 51
Mean −1588
Std Dev 1610

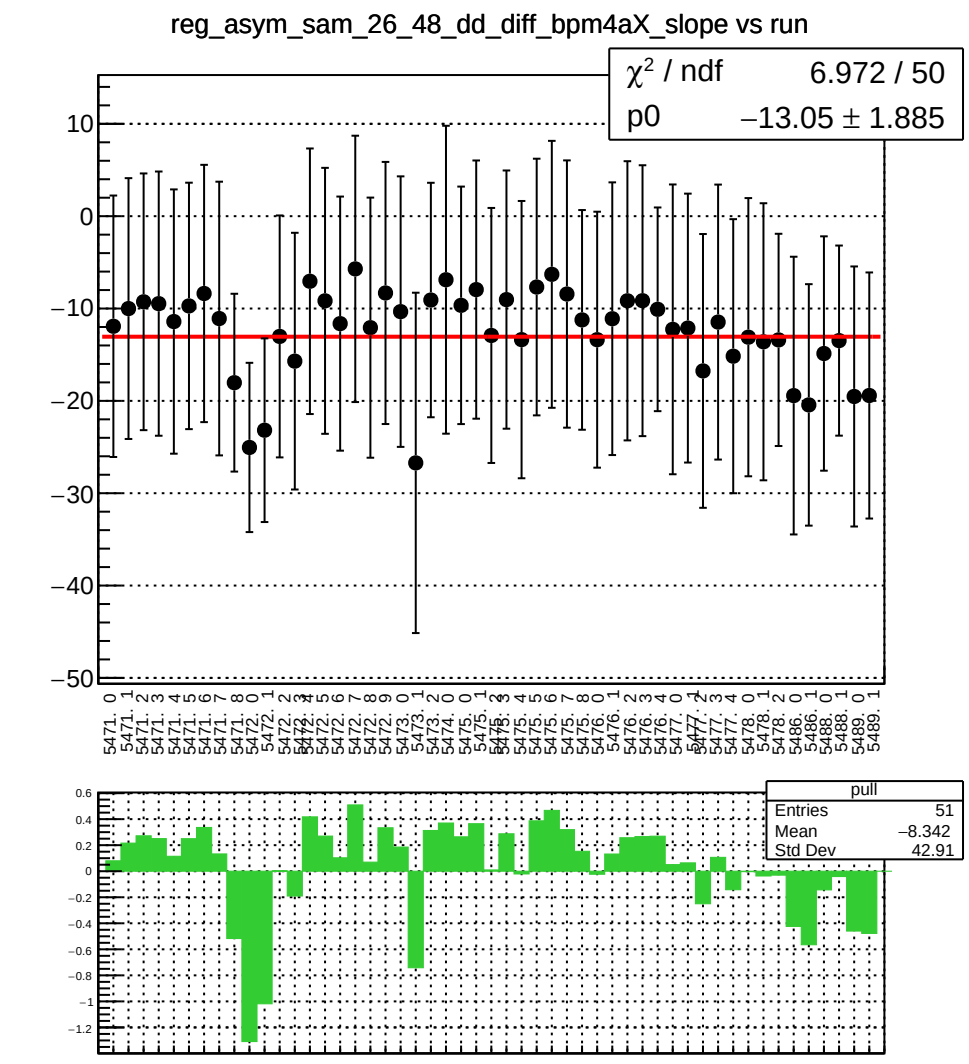

pull1D
Entries 51
Mean 0.001958
Std Dev 0.4027

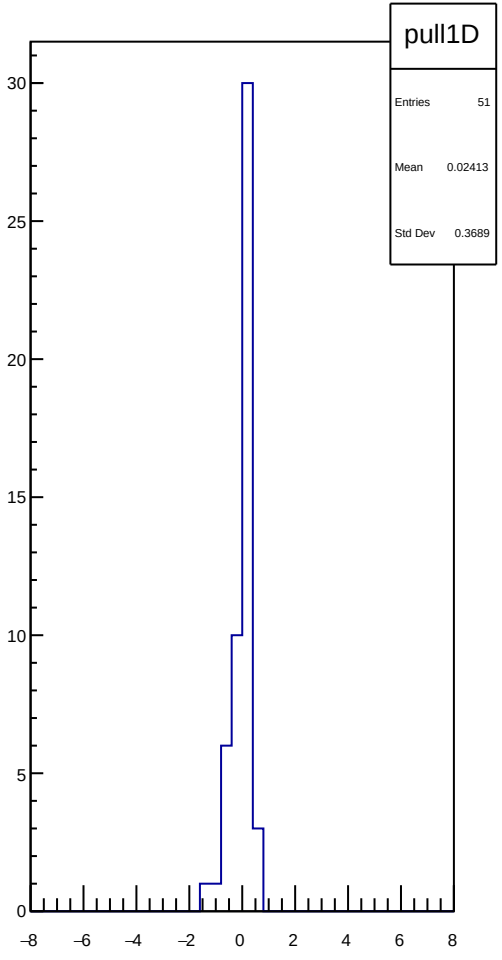

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.6 / 50
p0 −13.15 ± 2.408
pull
Entries 51
Mean 9.794
Std Dev 12.8

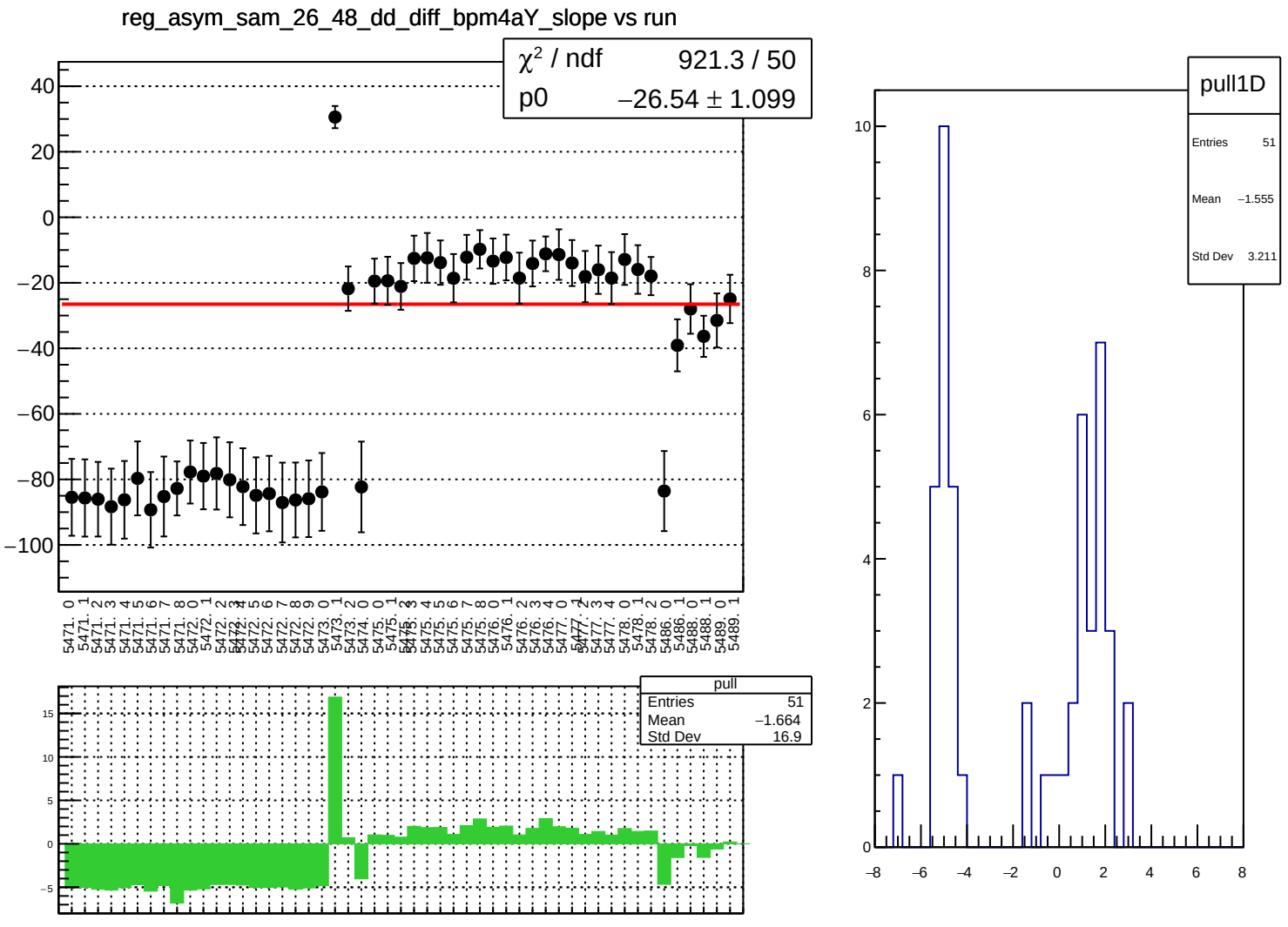

pull1D
Entries 51
Mean 0.4996
Std Dev 1.364

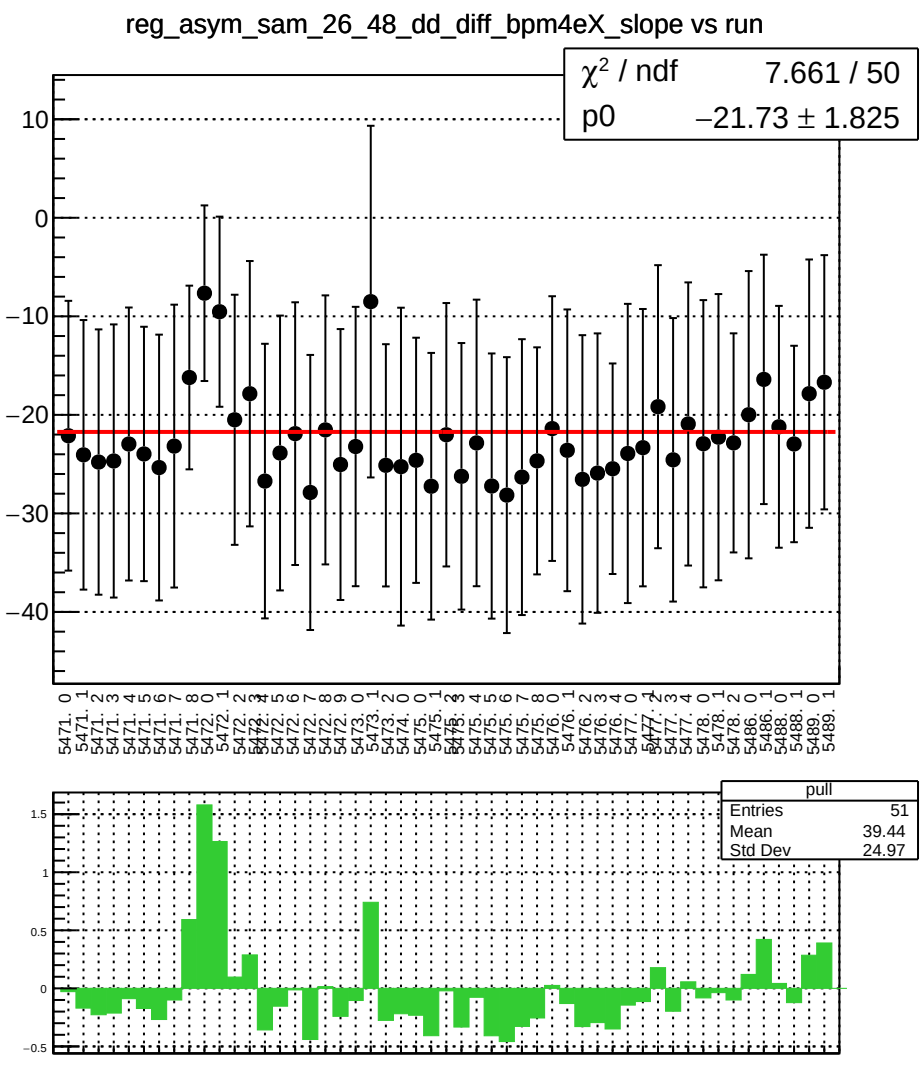

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 1.75 / 50
p0 −0.6823 ± 0.08537
pull
Entries 51
Mean −583
Std Dev 607.7

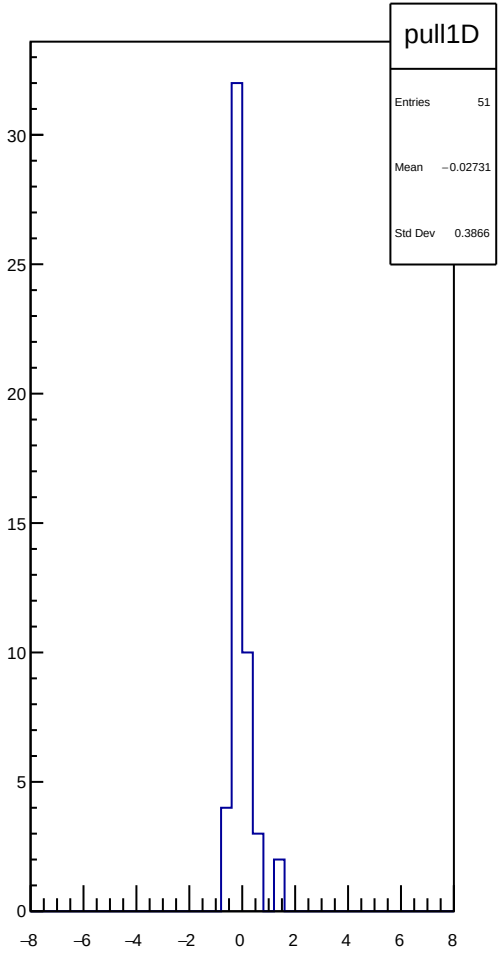

pull1D
Entries 51
Mean −0.003151
Std Dev 0.1852

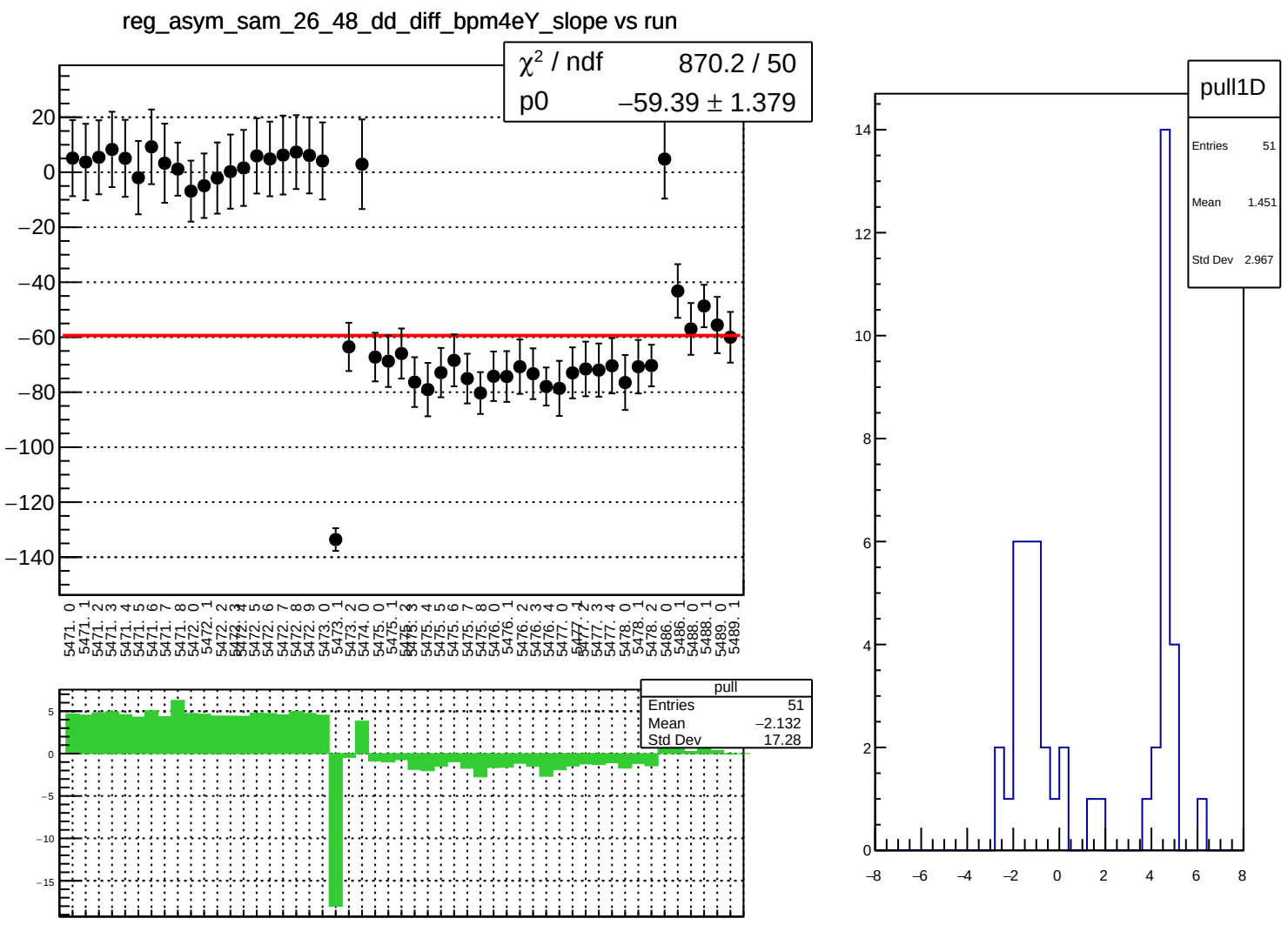

reg_asym_sam_26_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 6.972 / 50
p0 −13.05 ± 1.885
pull
Entries 51
Mean −8.342
Std Dev 42.91

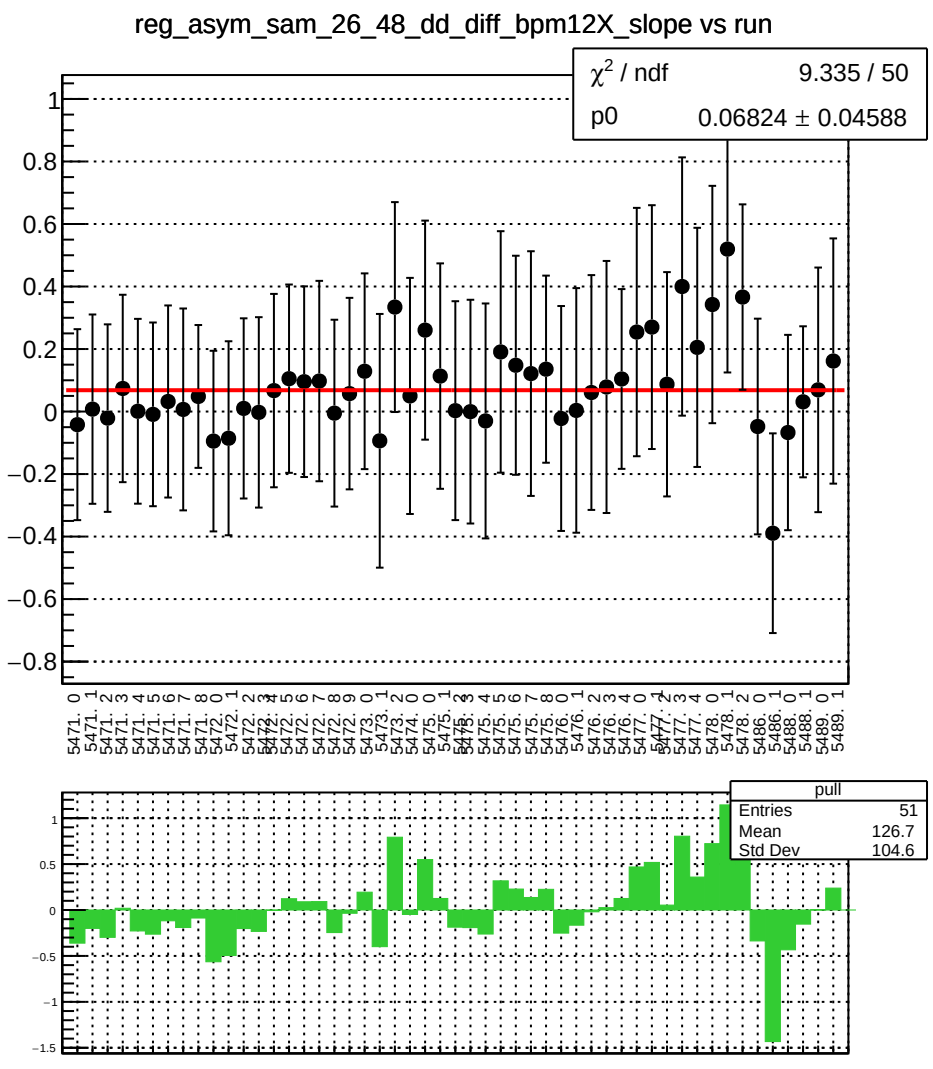

pull1D
Entries 51
Mean 0.02413
Std Dev 0.3689

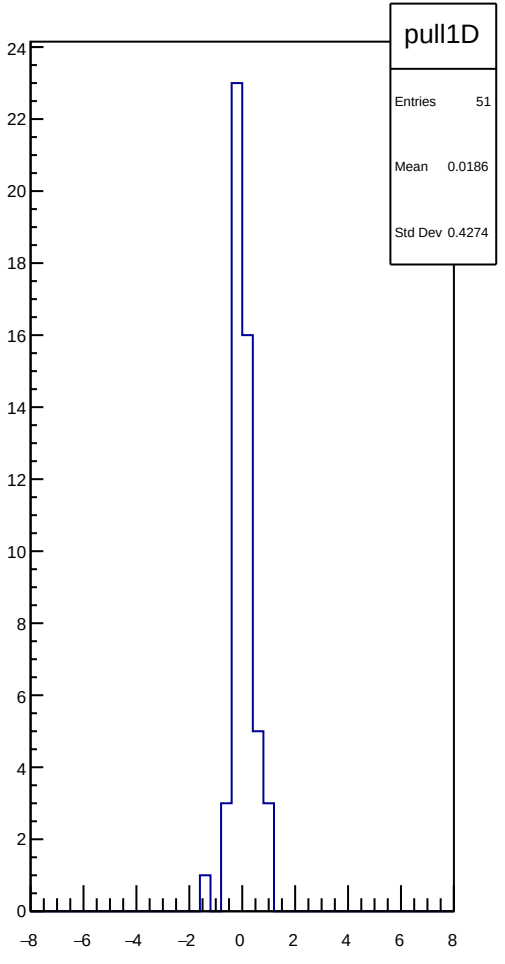

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 921.3 / 50
p0 −26.54 ± 1.099
pull
Entries 51
Mean −1.664
Std Dev 16.9
pull1D
Entries 51
Mean −1.555
Std Dev 3.211

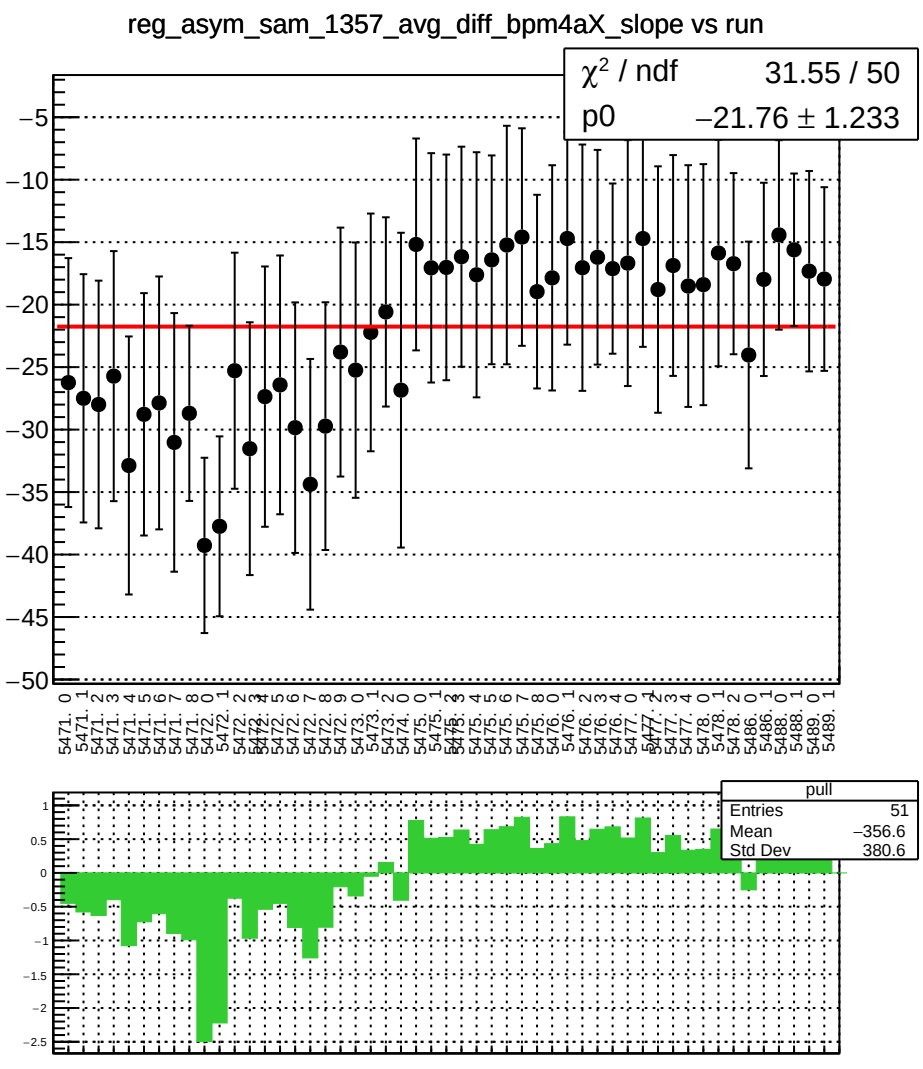

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.661 / 50
p0 −21.73 ± 1.825
pull
Entries 51
Mean 39.44
Std Dev 24.97

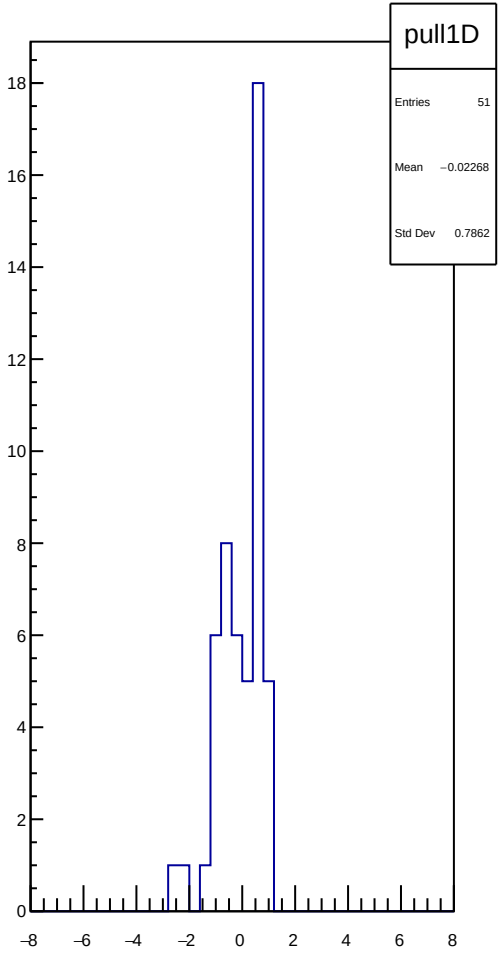

pull1D
Entries 51
Mean −0.02731
Std Dev 0.3866

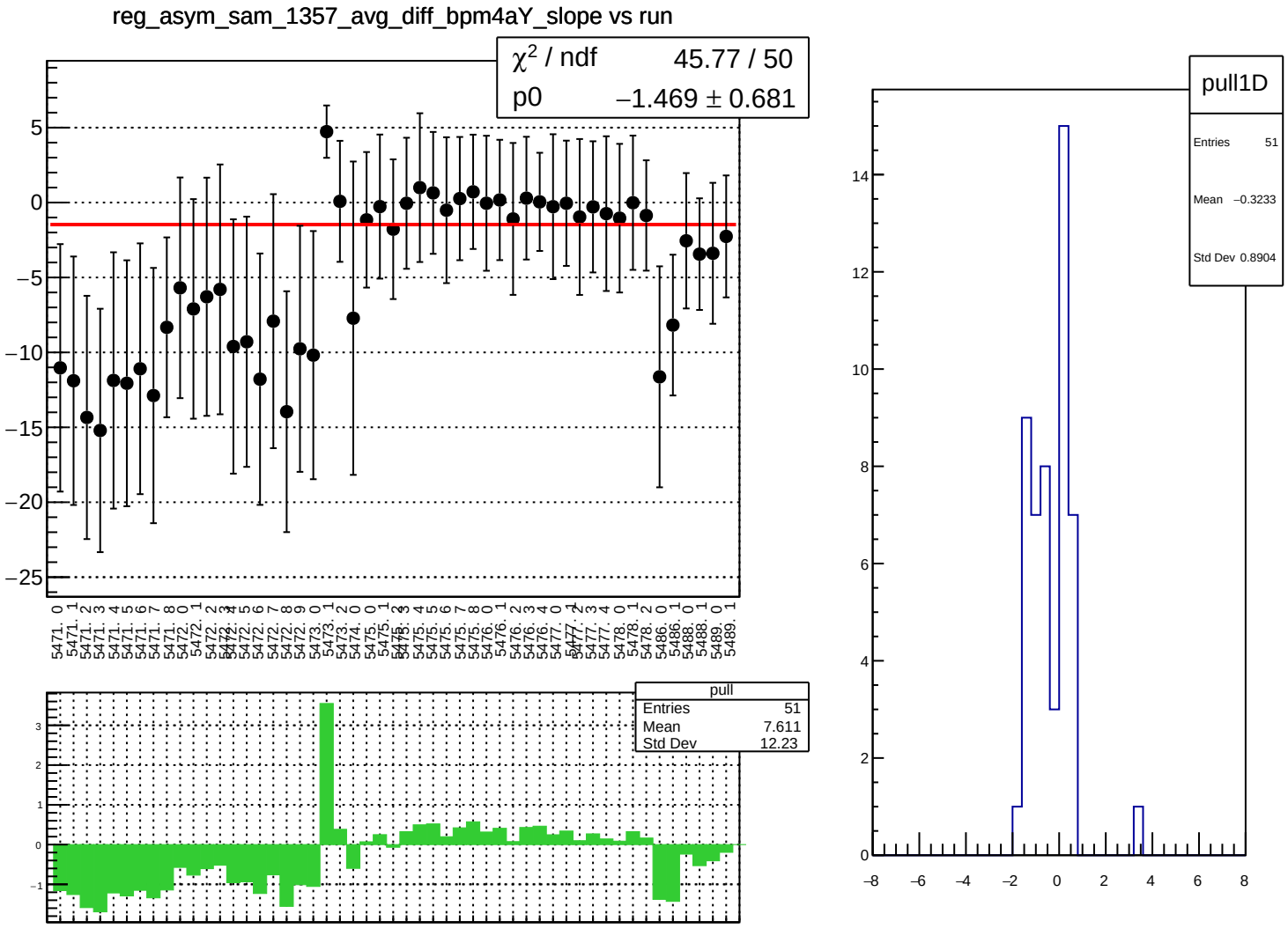

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 870.2 / 50
p0 −59.39 ± 1.379
pull
Entries 51
Mean −2.132
Std Dev 17.28
pull1D
Entries 51
Mean 1.451
Std Dev 2.967

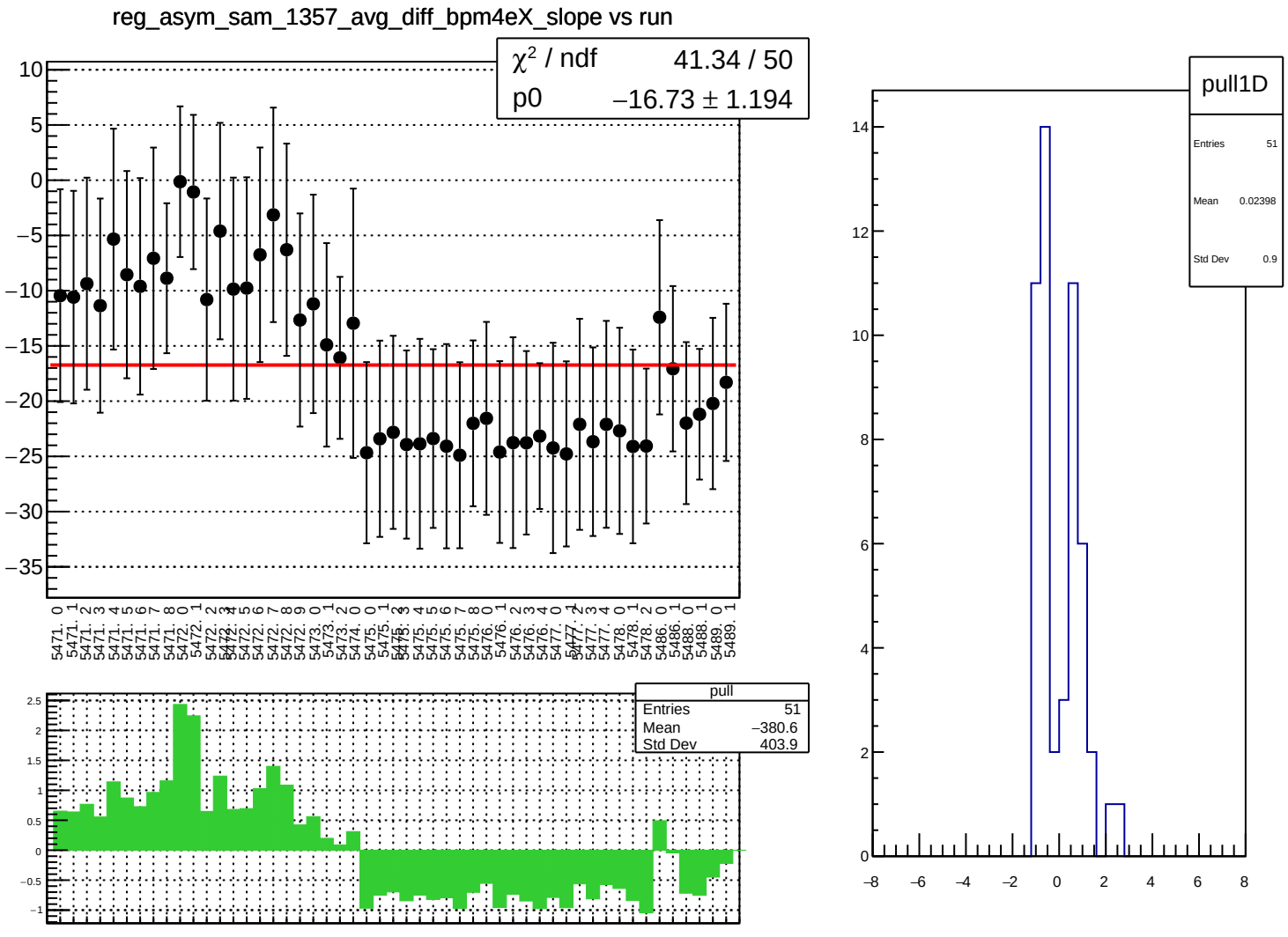

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.335 / 50
p0 0.06824 ± 0.04588
pull
Entries 51
Mean 126.7
Std Dev 104.6

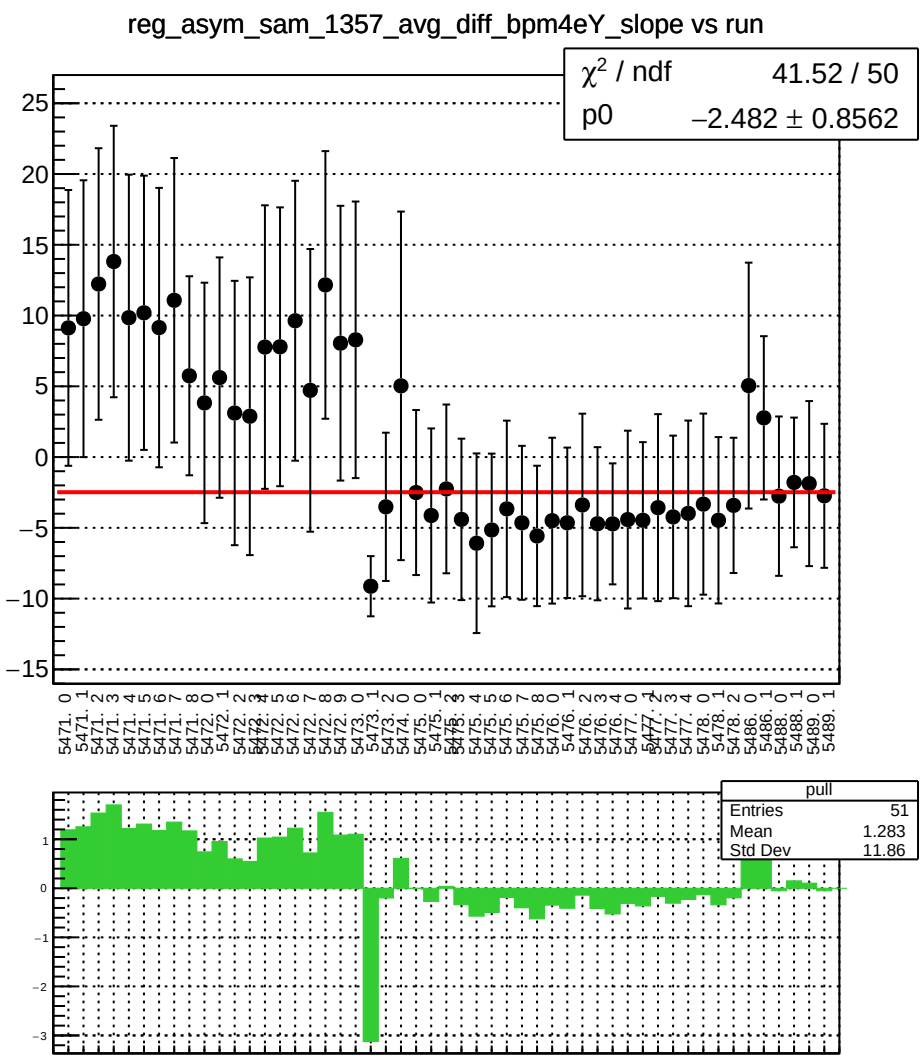

pull1D
Entries 51
Mean 0.0186
Std Dev 0.4274

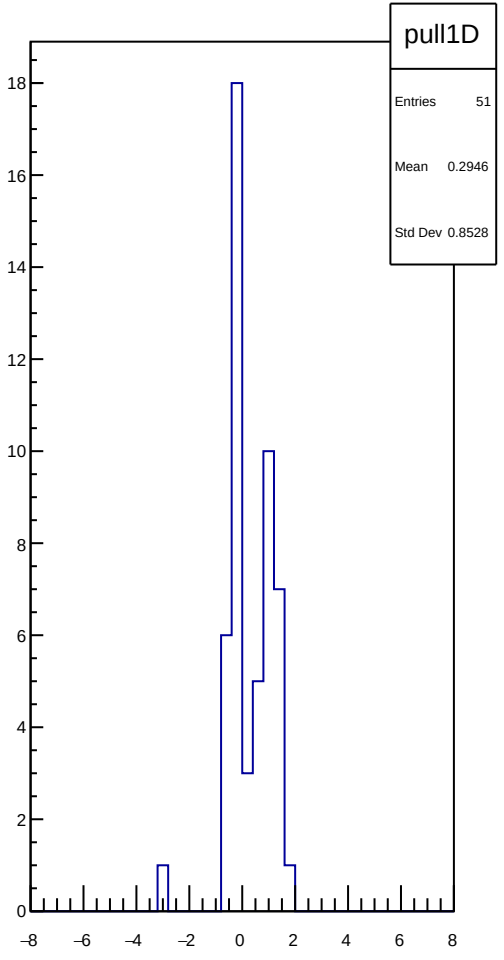

reg_asym_sam_1357_avg_diff_bpm4aX_slope vs run
χ² / ndf 31.55 / 50
p0 −21.76 ± 1.233
pull
Entries 51
Mean −356.6
Std Dev 380.6

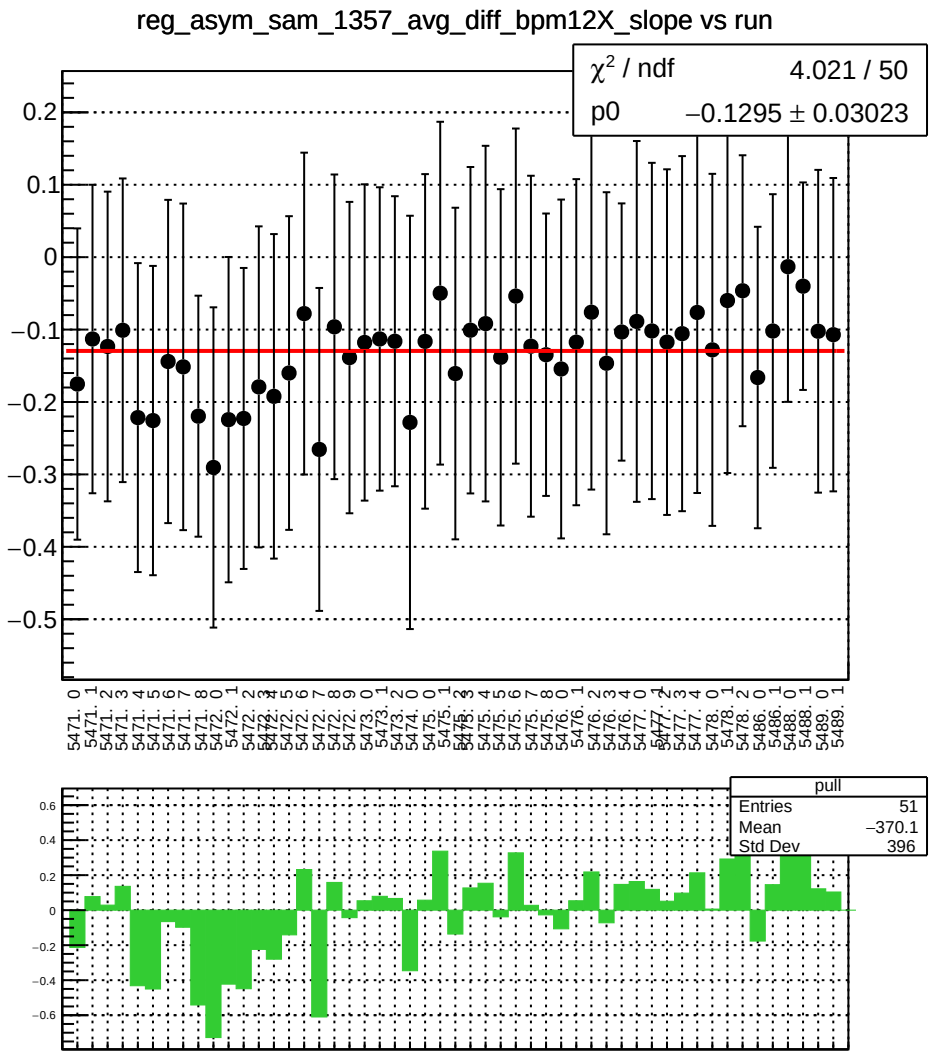

pull1D
Entries 51
Mean −0.02268
Std Dev 0.7862

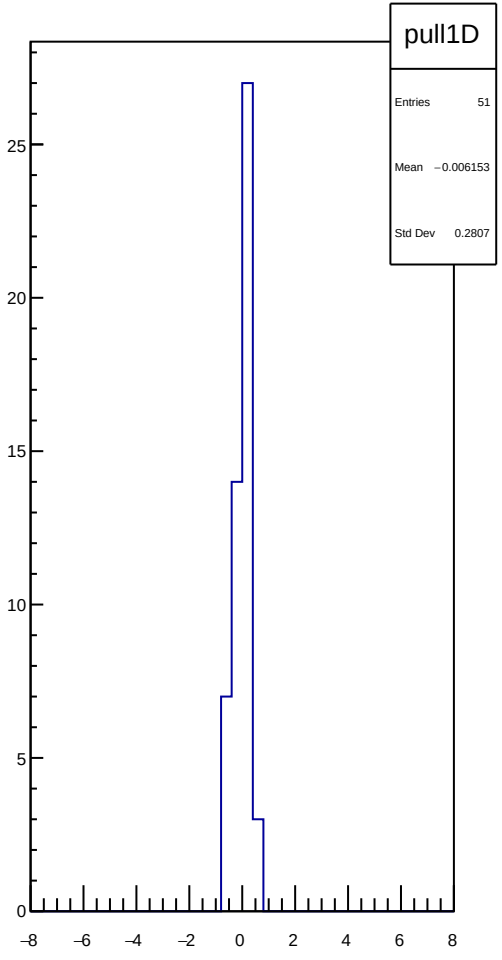

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.77 / 50
p0 −1.469 ± 0.681
pull
Entries 51
Mean 7.611
Std Dev 12.23
pull1D
Entries 51
Mean −0.3233
Std Dev 0.8904

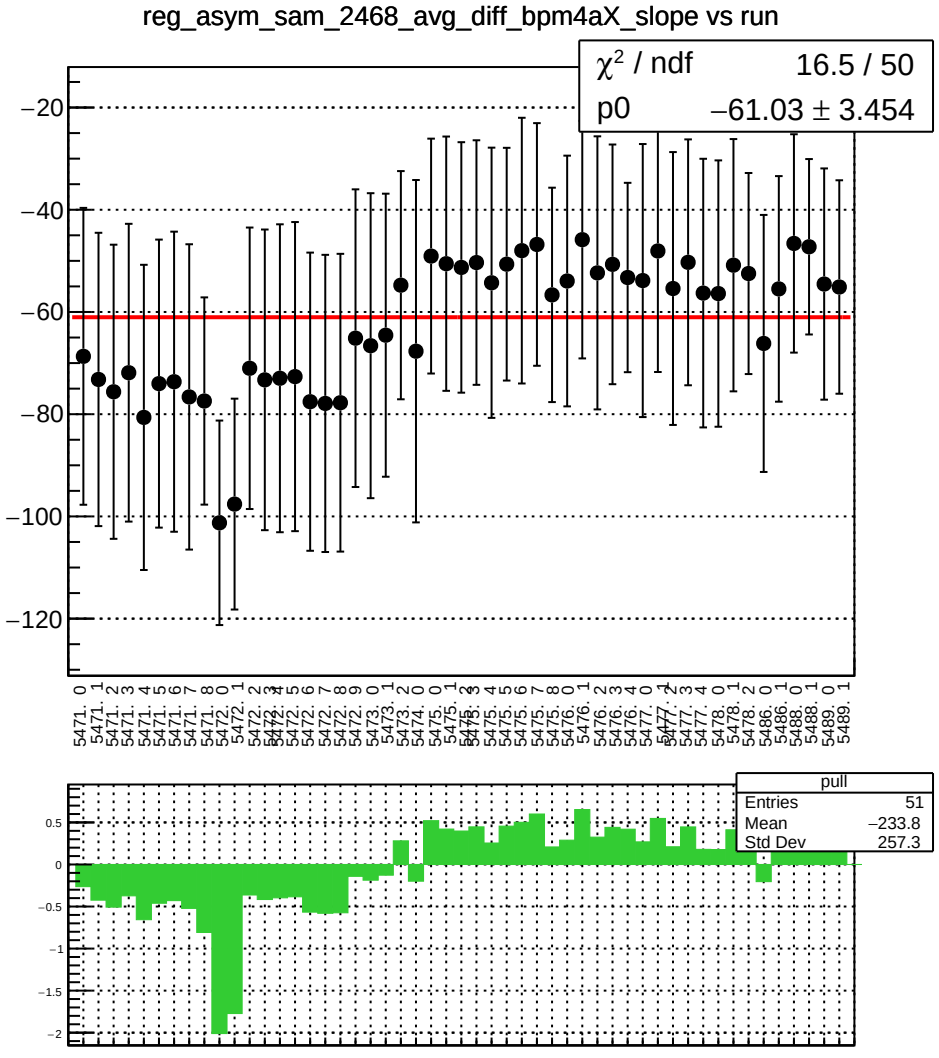

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.34 / 50
p0 −16.73 ± 1.194
pull
Entries 51
Mean −380.6
Std Dev 403.9
pull1D
Entries 51
Mean 0.02398
Std Dev 0.9

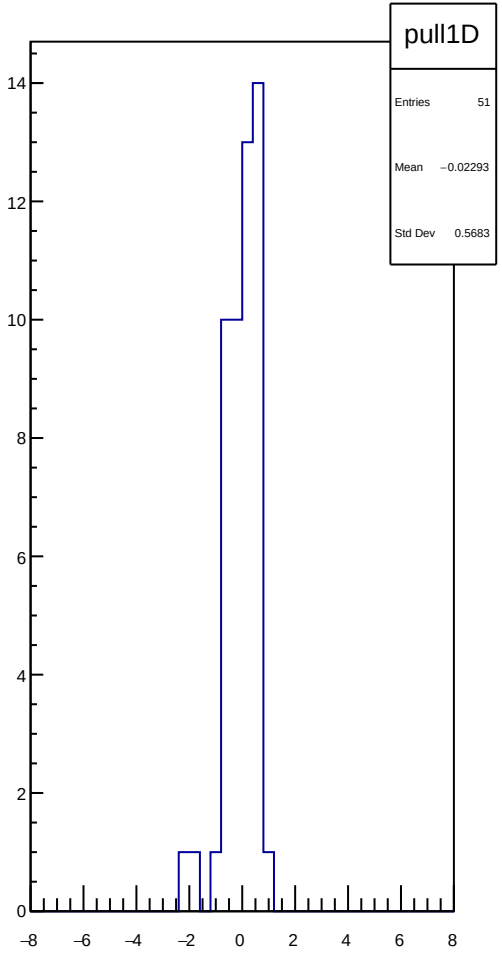

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 41.52 / 50
p0 −2.482 ± 0.8562
pull
Entries 51
Mean 1.283
Std Dev 11.86

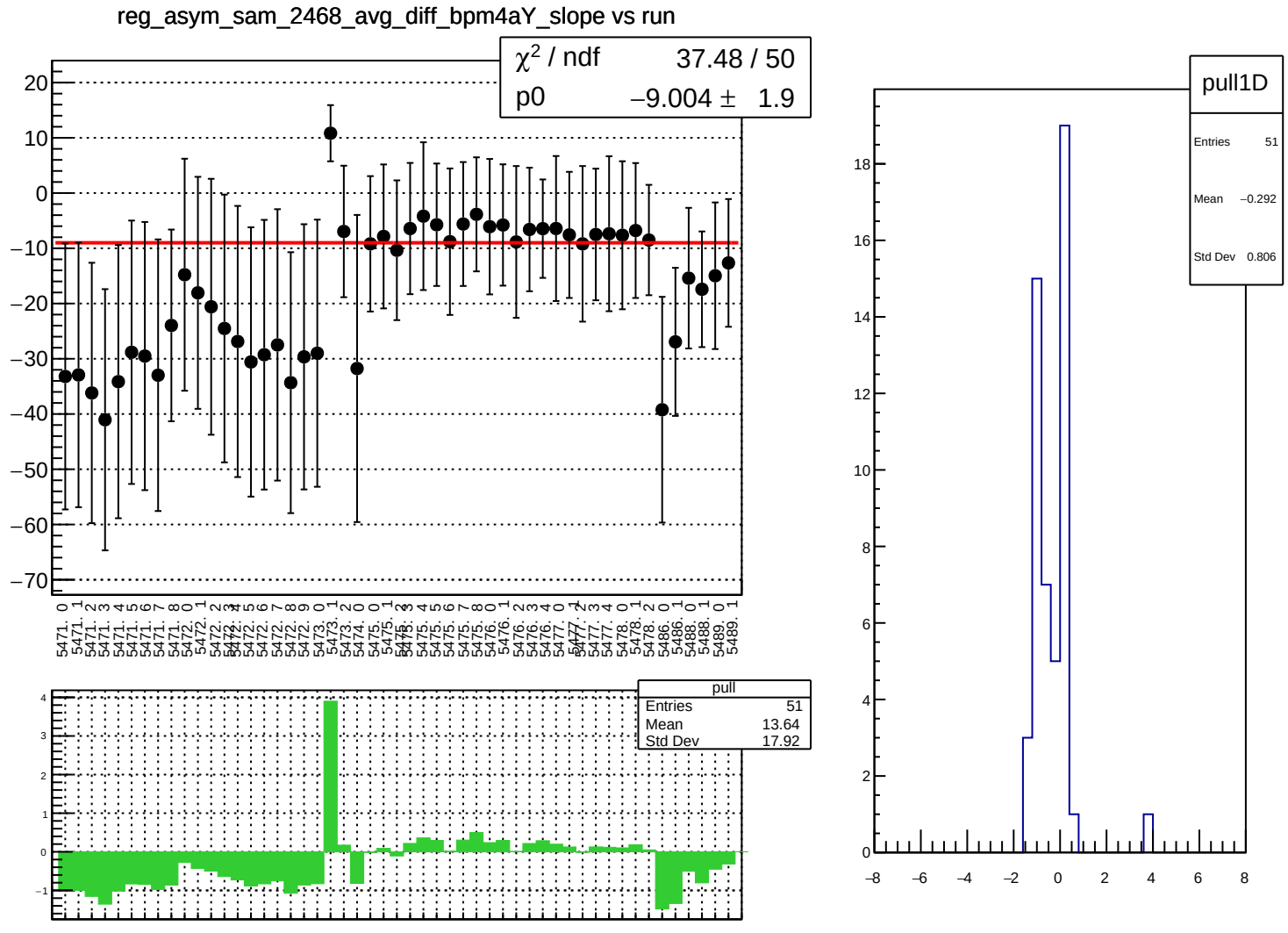

pull1D
Entries 51
Mean 0.2946
Std Dev 0.8528

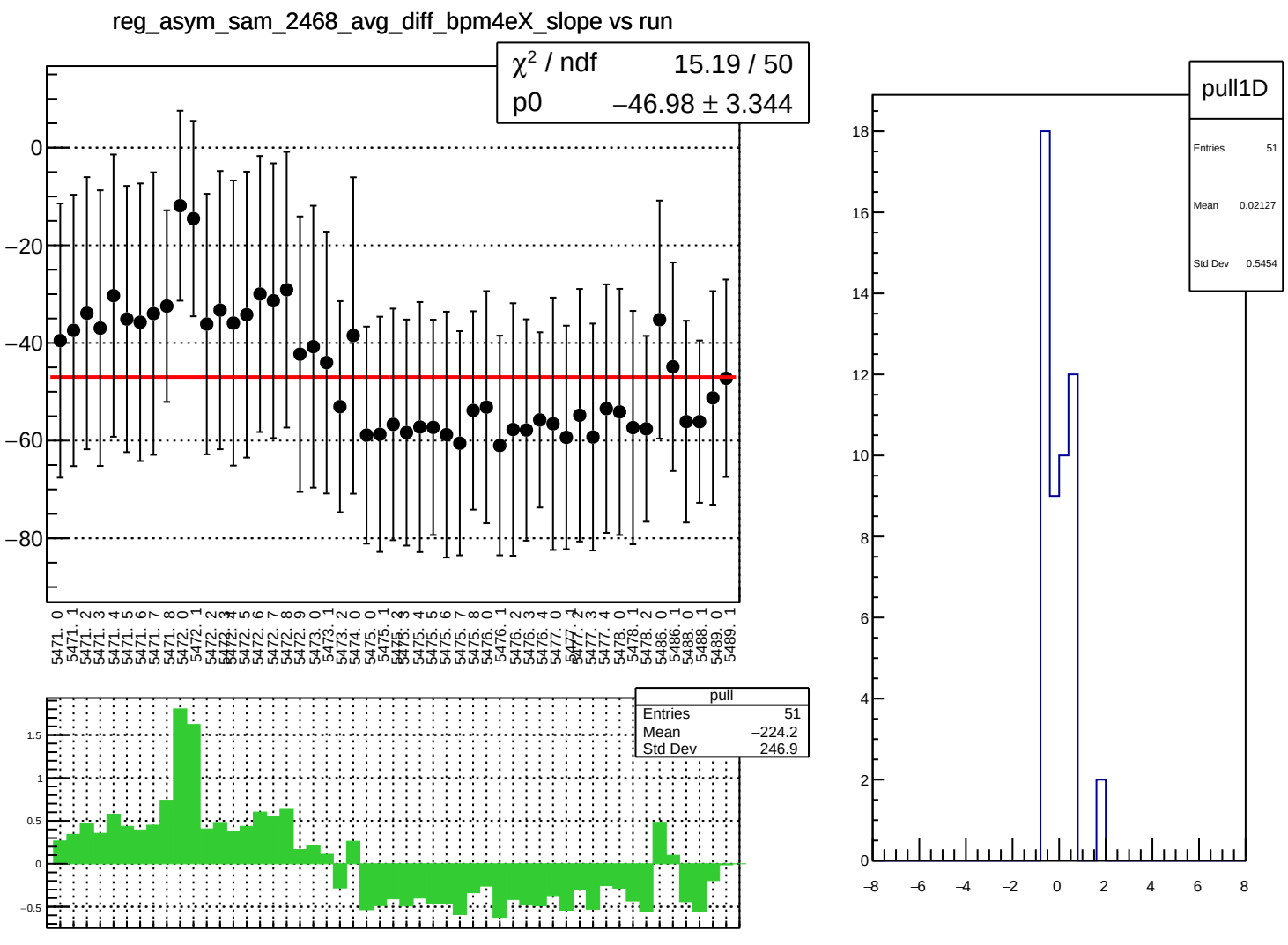

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 4.021 / 50
p0 −0.1295 ± 0.03023
pull
Entries 51
Mean −370.1
Std Dev 396

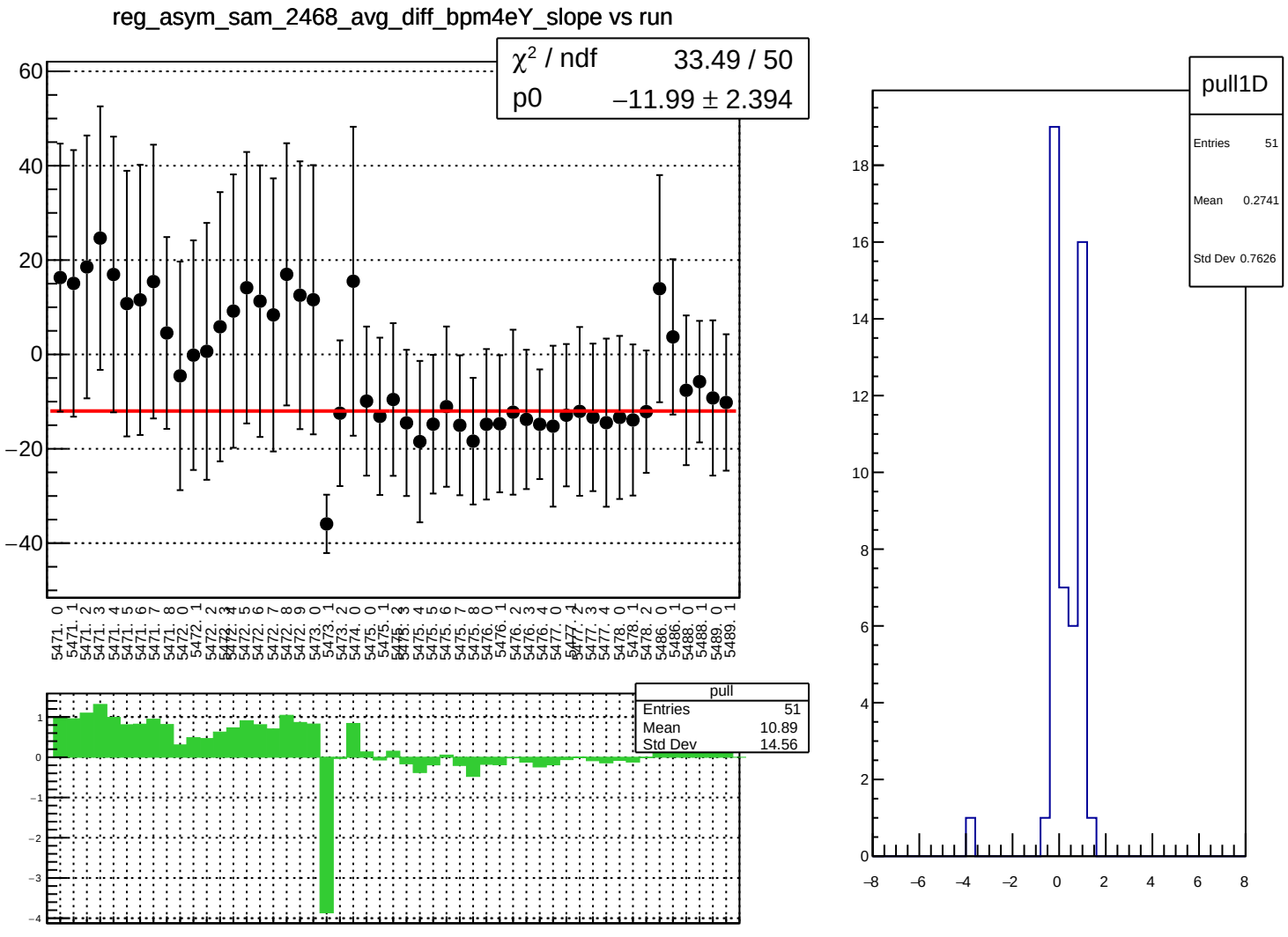

pull1D
Entries 51
Mean −0.006153
Std Dev 0.2807

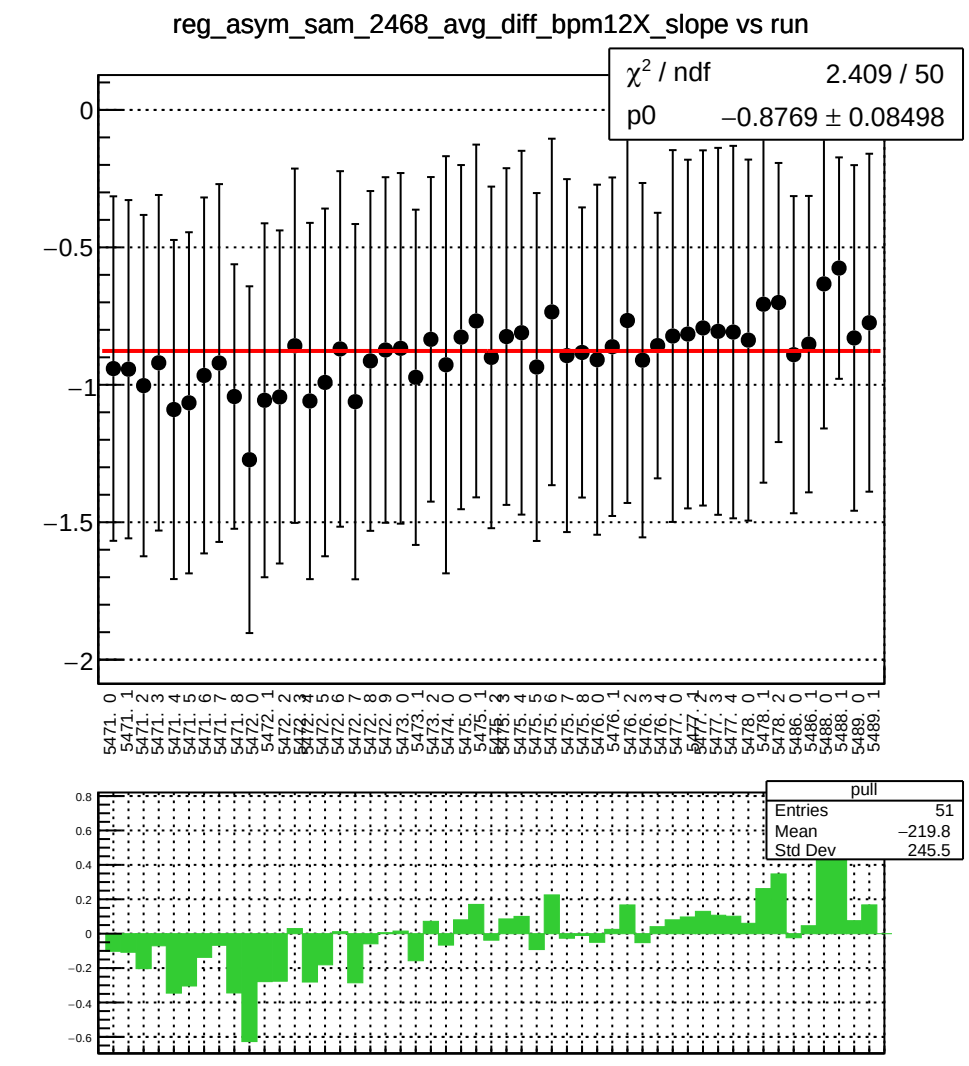

reg_asym_sam_2468_avg_diff_bpm4aX_slope vs run
χ² / ndf 16.5 / 50
p0 −61.03 ± 3.454
pull
Entries 51
Mean −233.8
Std Dev 257.3

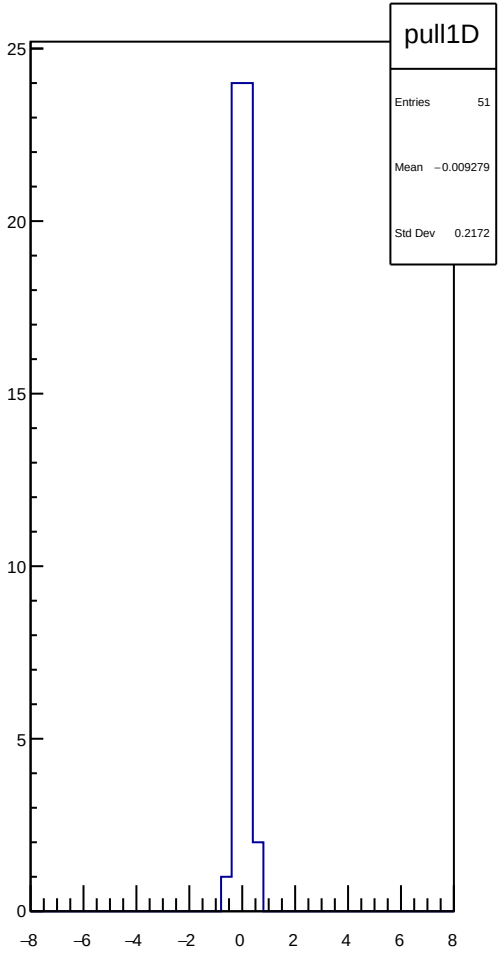

pull1D
Entries 51
Mean −0.02293
Std Dev 0.5683

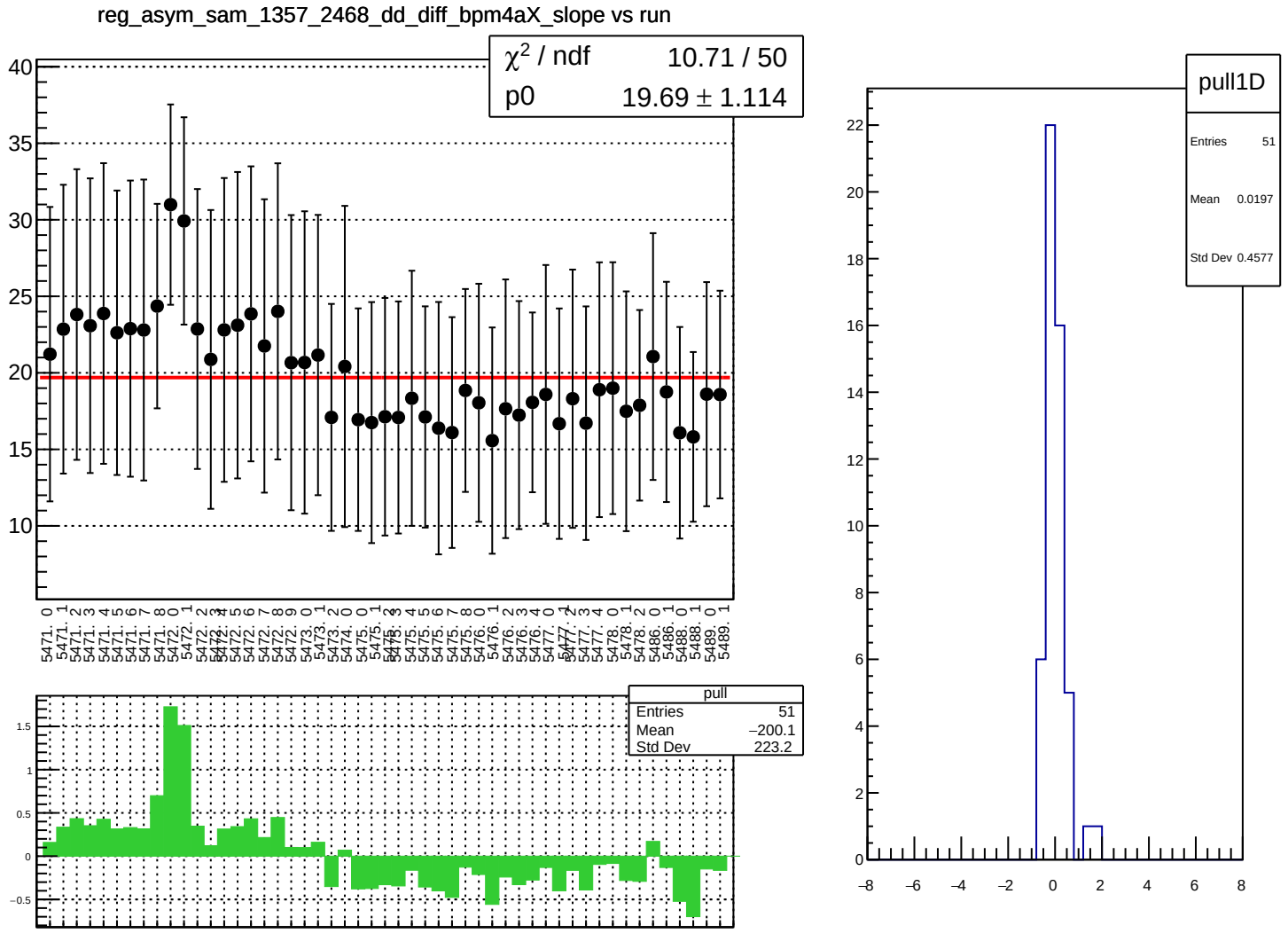

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.48 / 50
p0 −9.004 ± 1.9
pull
Entries 51
Mean 13.64
Std Dev 17.92
pull1D
Entries 51
Mean −0.292
Std Dev 0.806

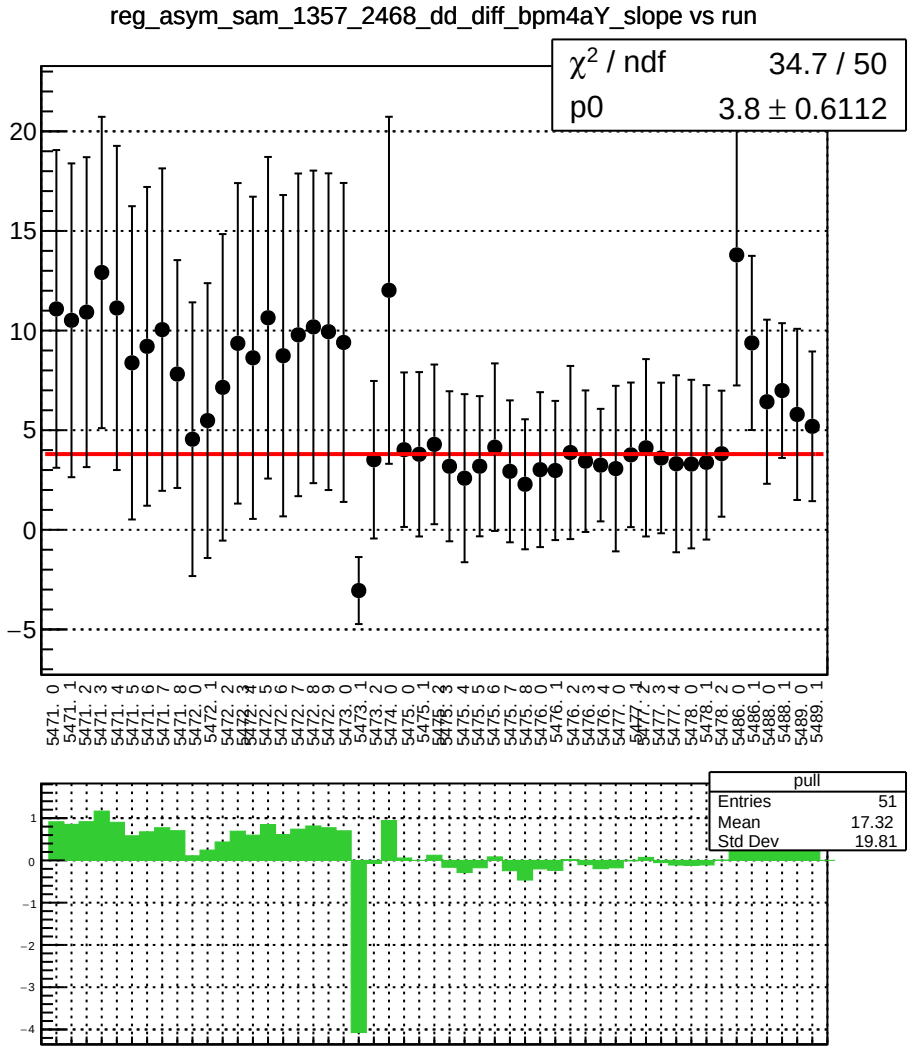

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 15.19 / 50
p0 −46.98 ± 3.344
pull
Entries 51
Mean −224.2
Std Dev 246.9
pull1D
Entries 51
Mean 0.02127
Std Dev 0.5454

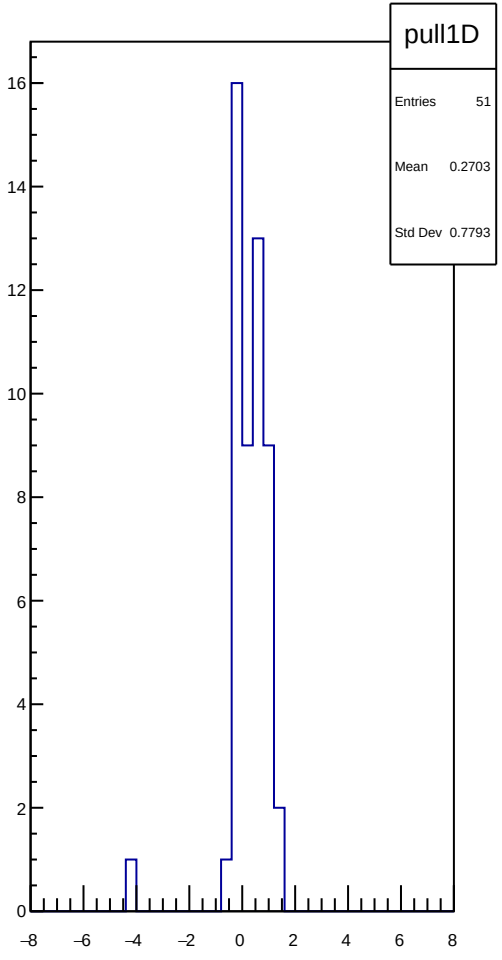

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.49 / 50
p0 −11.99 ± 2.394
pull
Entries 51
Mean 10.89
Std Dev 14.56
pull1D
Entries 51
Mean 0.2741
Std Dev 0.7626

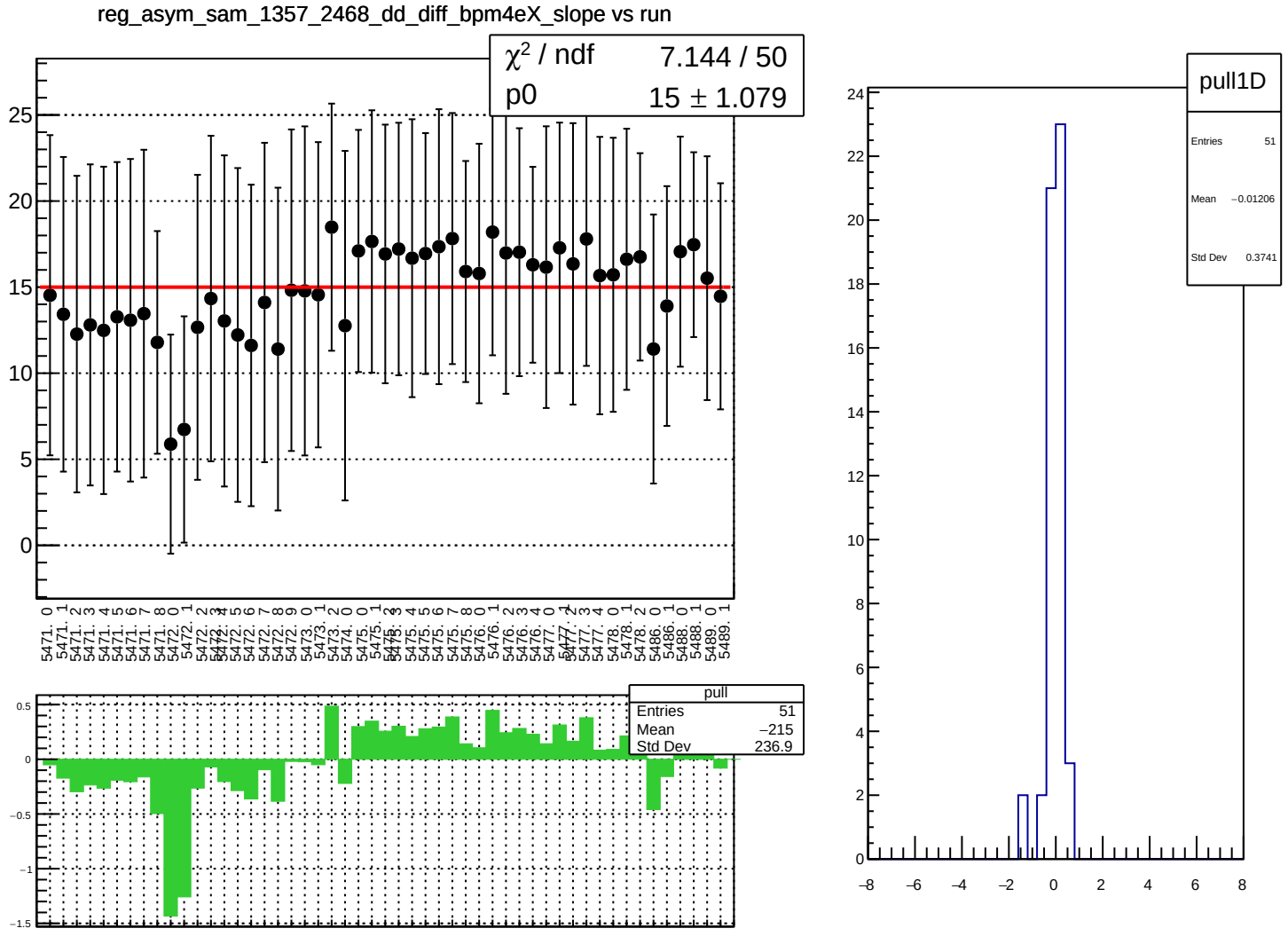

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.409 / 50
p0 −0.8769 ± 0.08498
pull
Entries 51
Mean −219.8
Std Dev 245.5

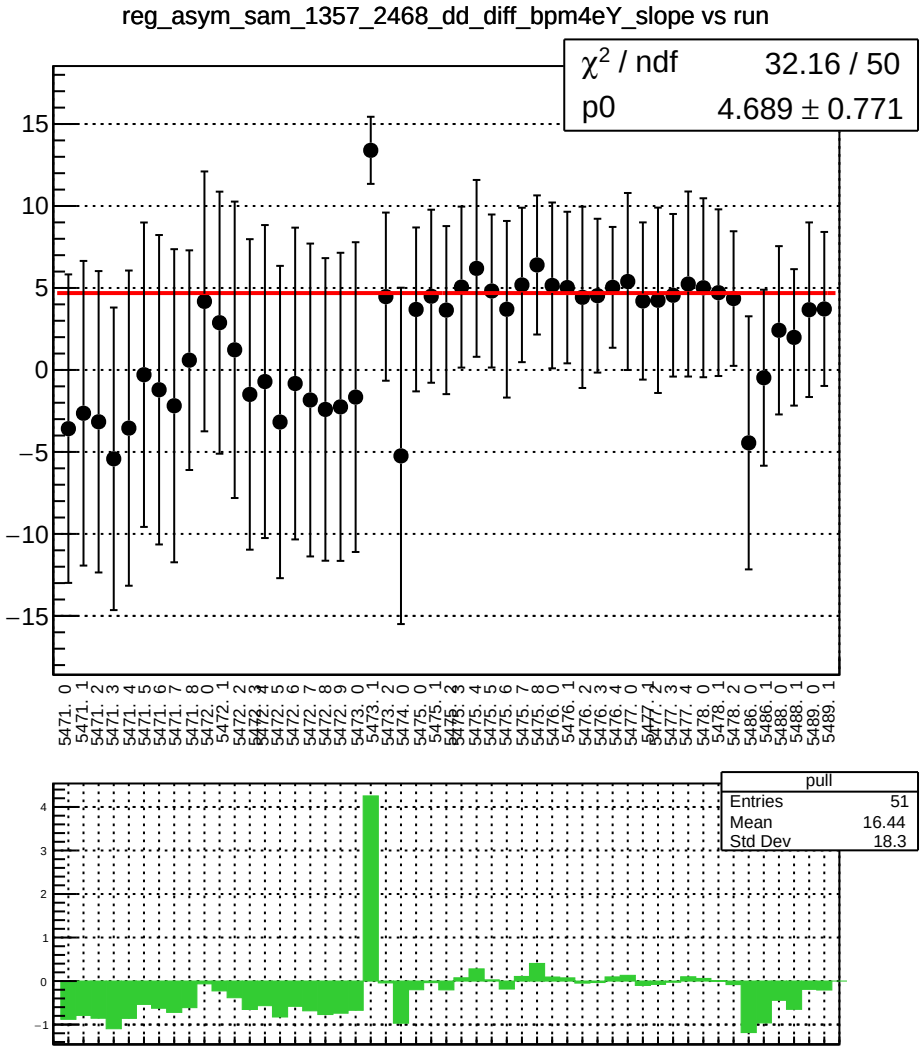

pull1D
Entries 51
Mean −0.009279
Std Dev 0.2172

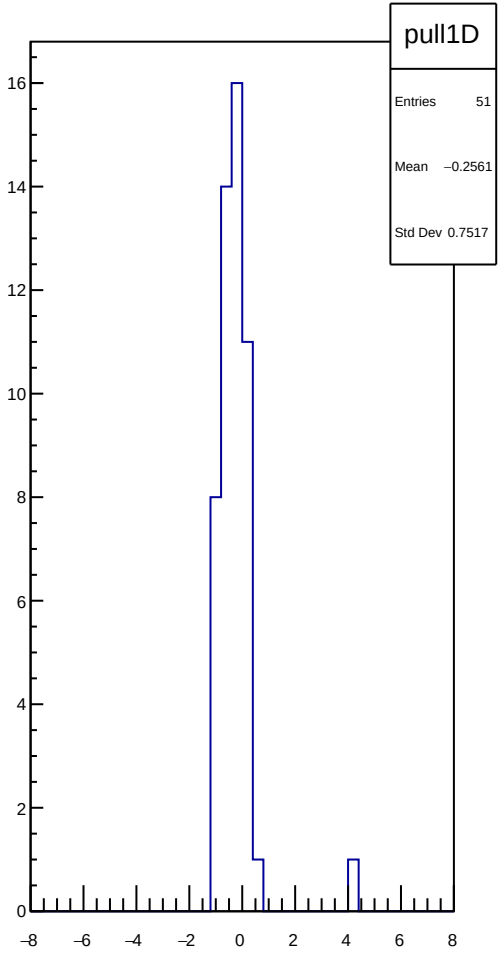

reg_asym_sam_1357_2468_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 10.71 / 50
p0 19.69 ± 1.114
pull
Entries 51
Mean −200.1
Std Dev 223.2
pull1D
Entries 51
Mean 0.0197
Std Dev 0.4577

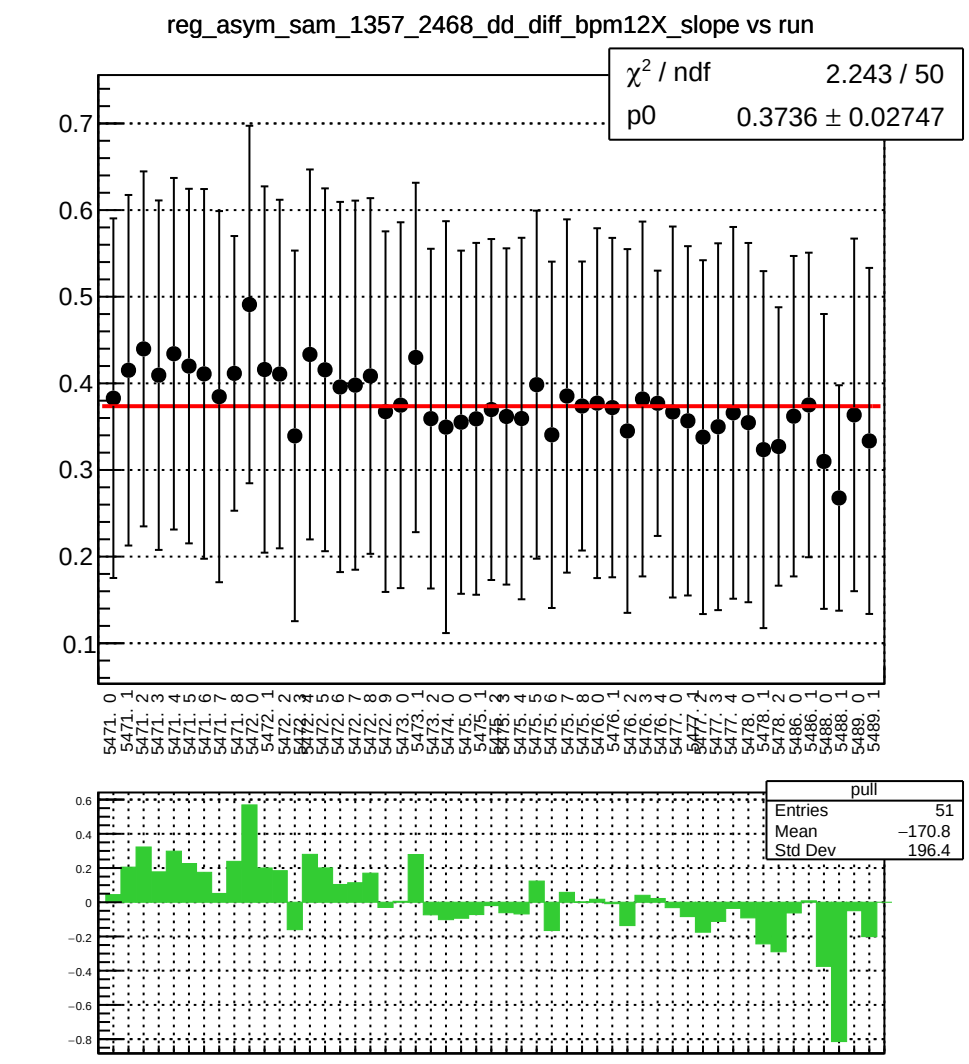

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.7 / 50
p0 3.8 ± 0.6112
pull
Entries 51
Mean 17.32
Std Dev 19.81

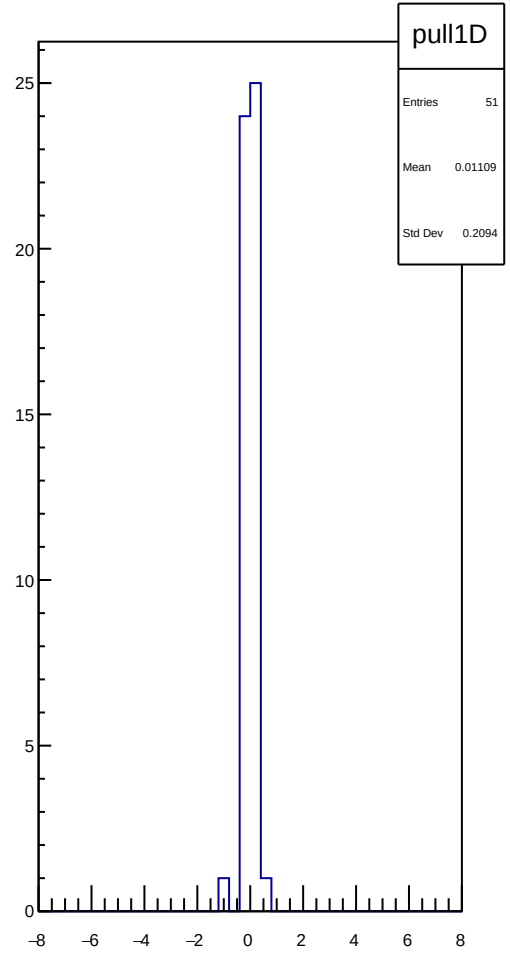

pull1D
Entries 51
Mean 0.2703
Std Dev 0.7793

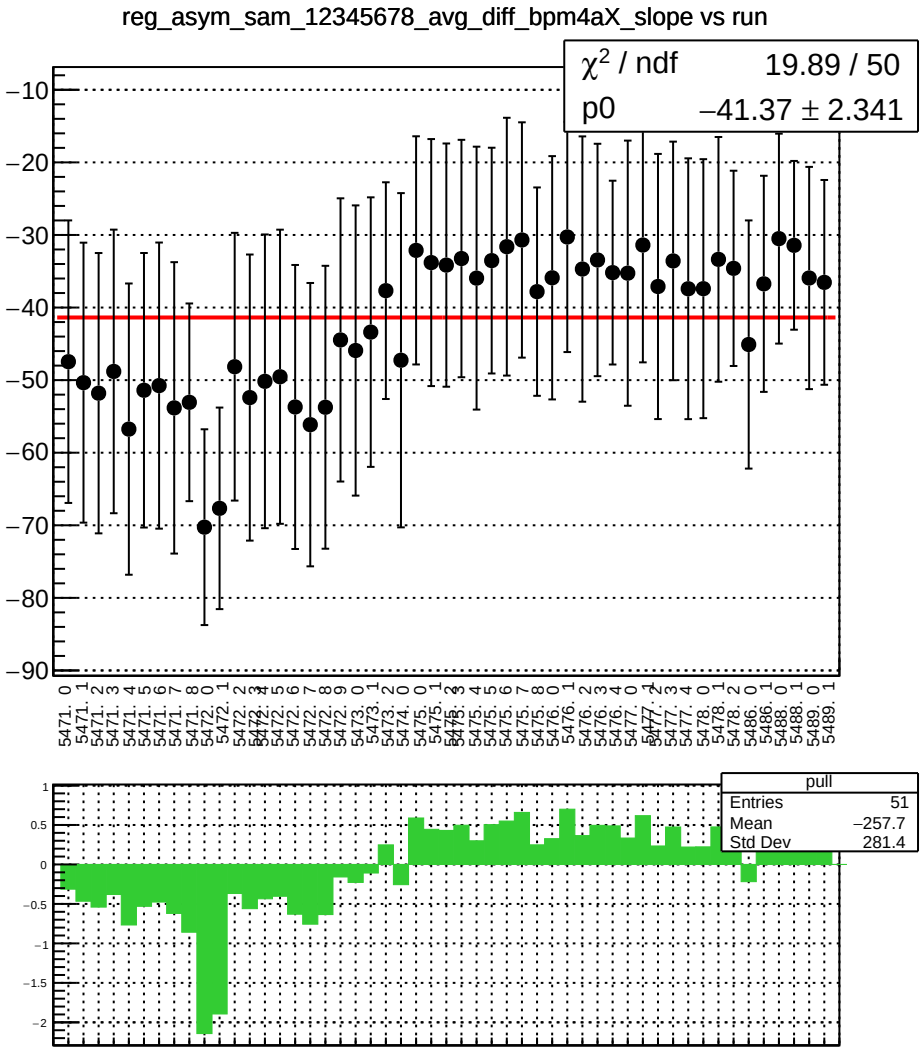

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.144 / 50
p0 15 ± 1.079
pull
Entries 51
Mean −215
Std Dev 236.9
pull1D
Entries 51
Mean −0.01206
Std Dev 0.3741

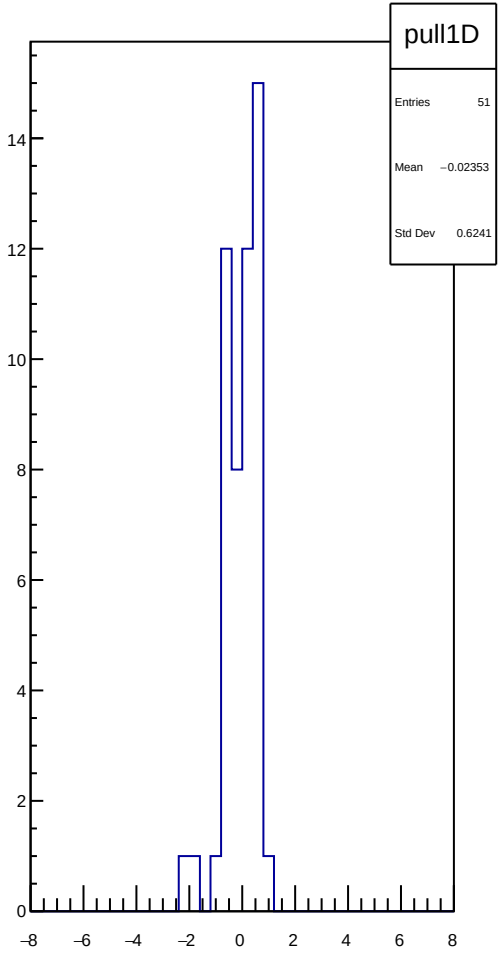

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.16 / 50
p0 4.689 ± 0.771
pull
Entries 51
Mean 16.44
Std Dev 18.3

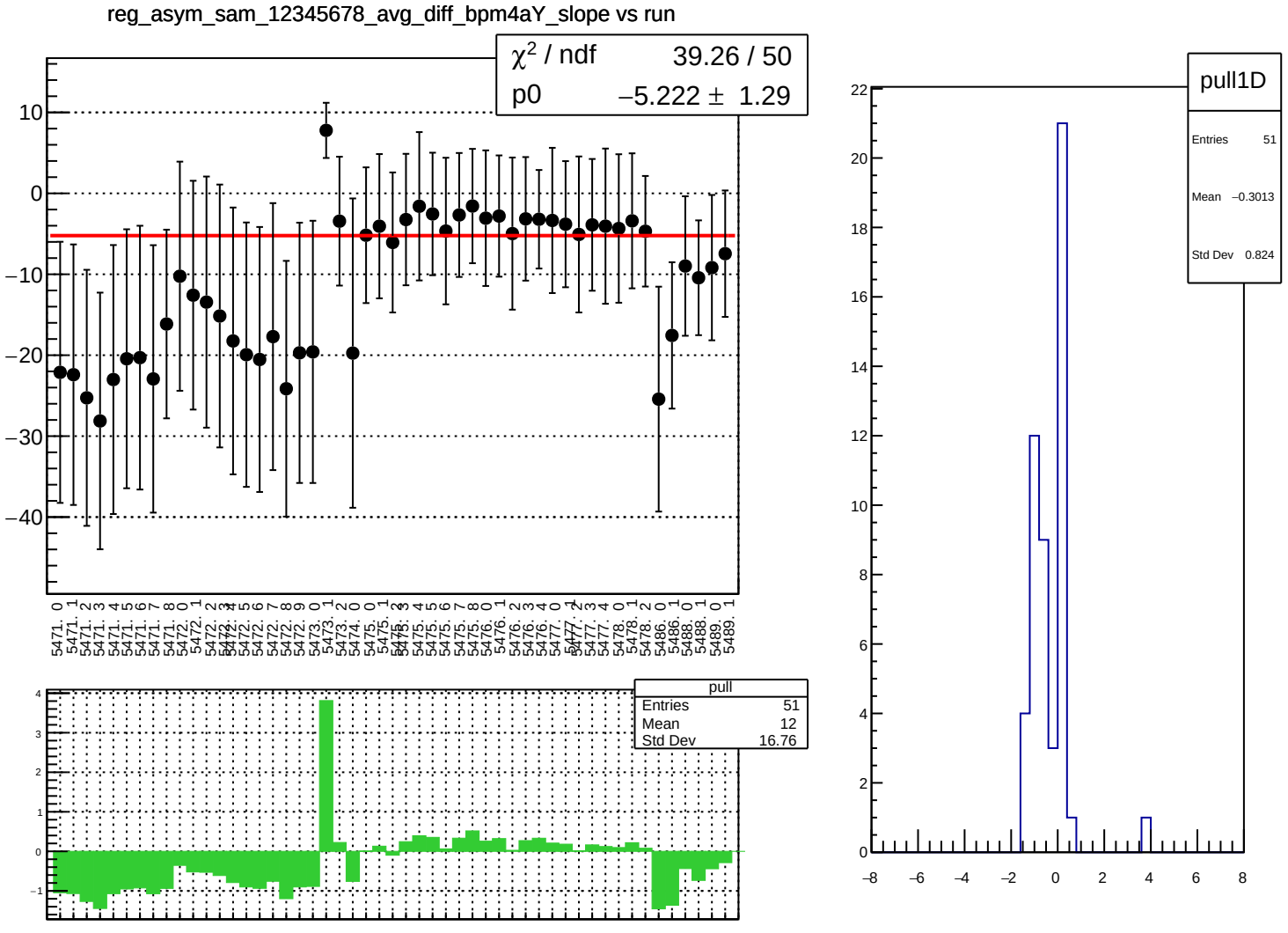

pull1D
Entries 51
Mean −0.2561
Std Dev 0.7517

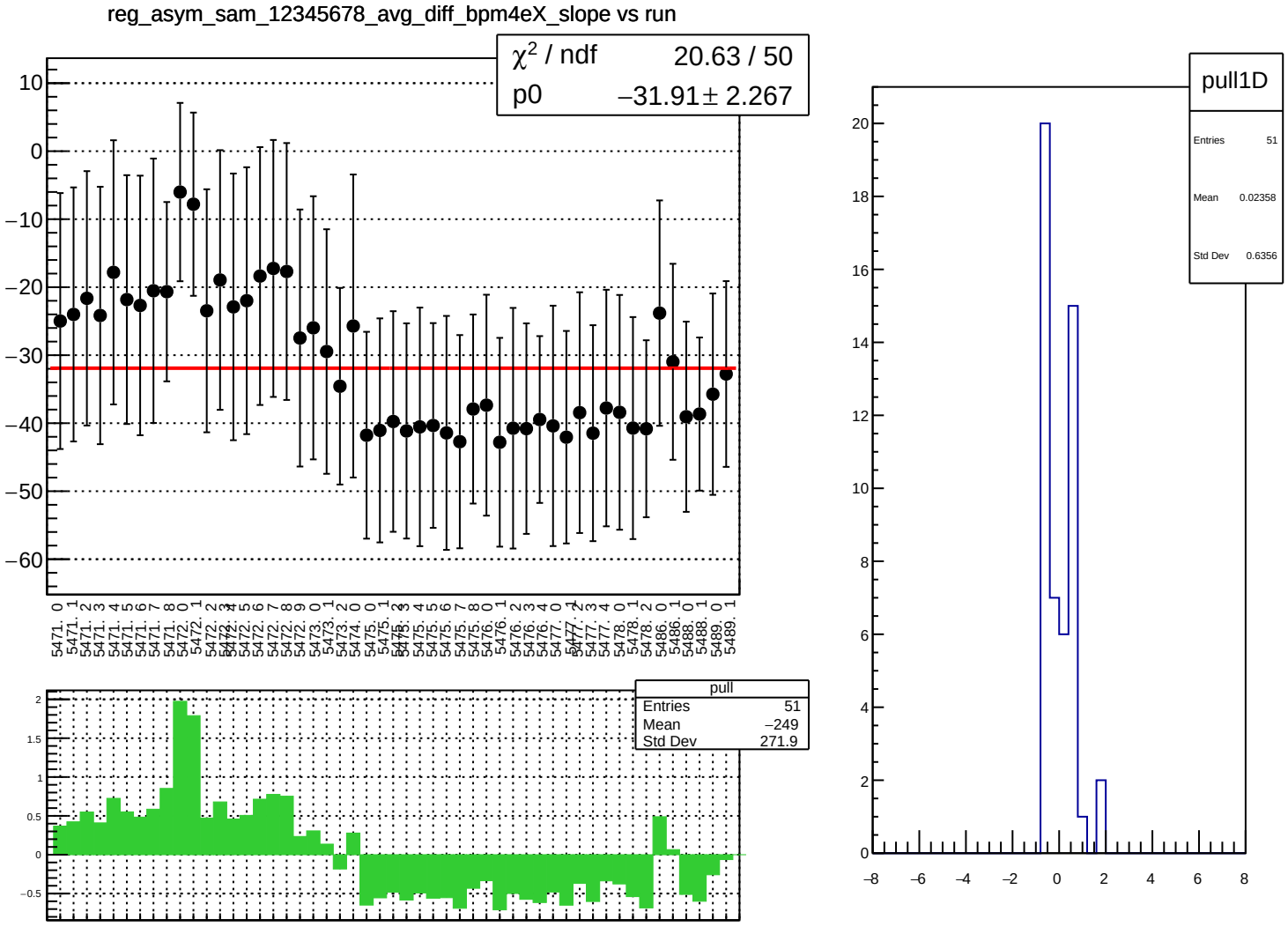

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.243 / 50
p0 0.3736 ± 0.02747
pull
Entries 51
Mean −170.8
Std Dev 196.4

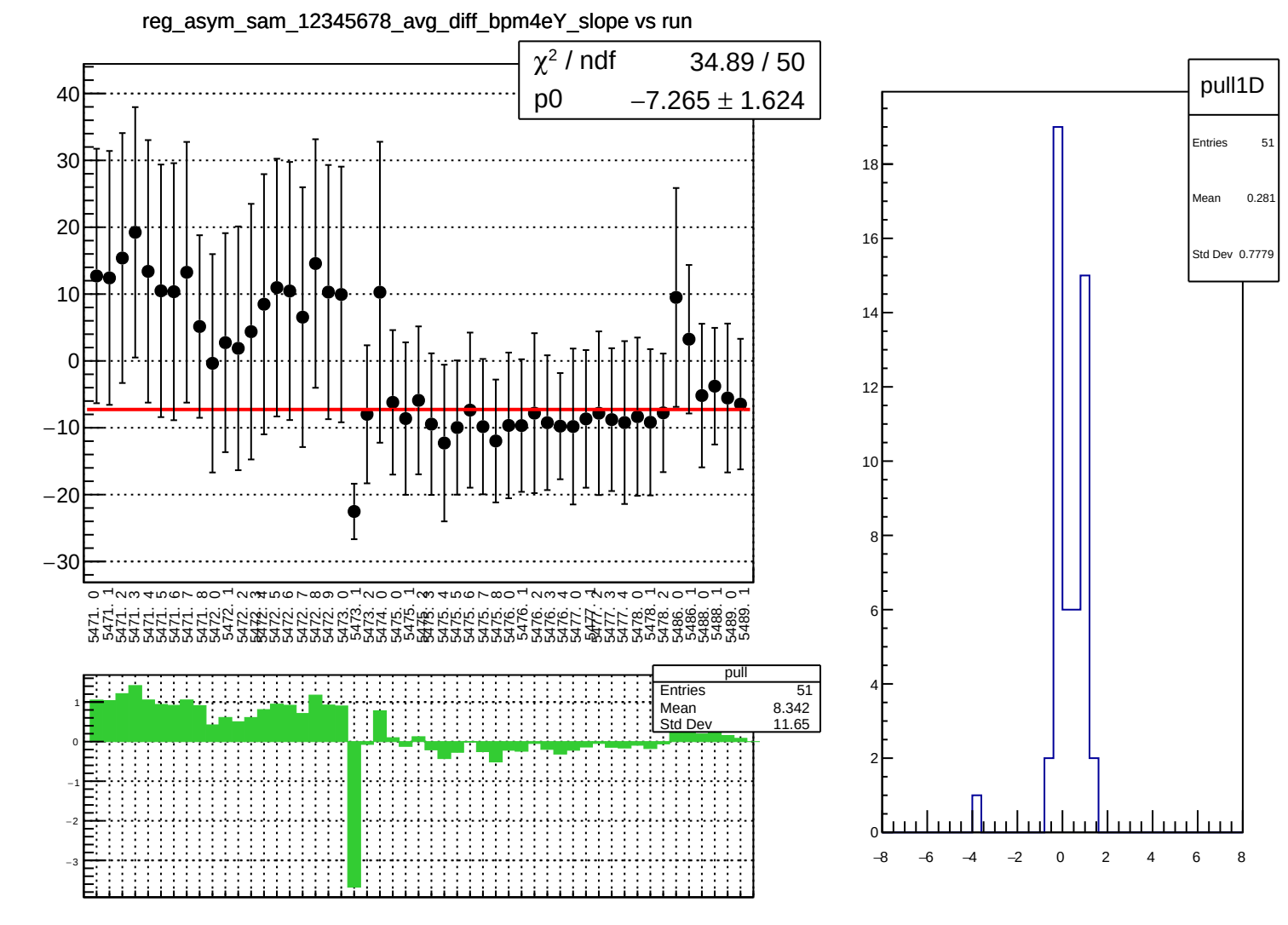

pull1D
Entries 51
Mean 0.01109
Std Dev 0.2094

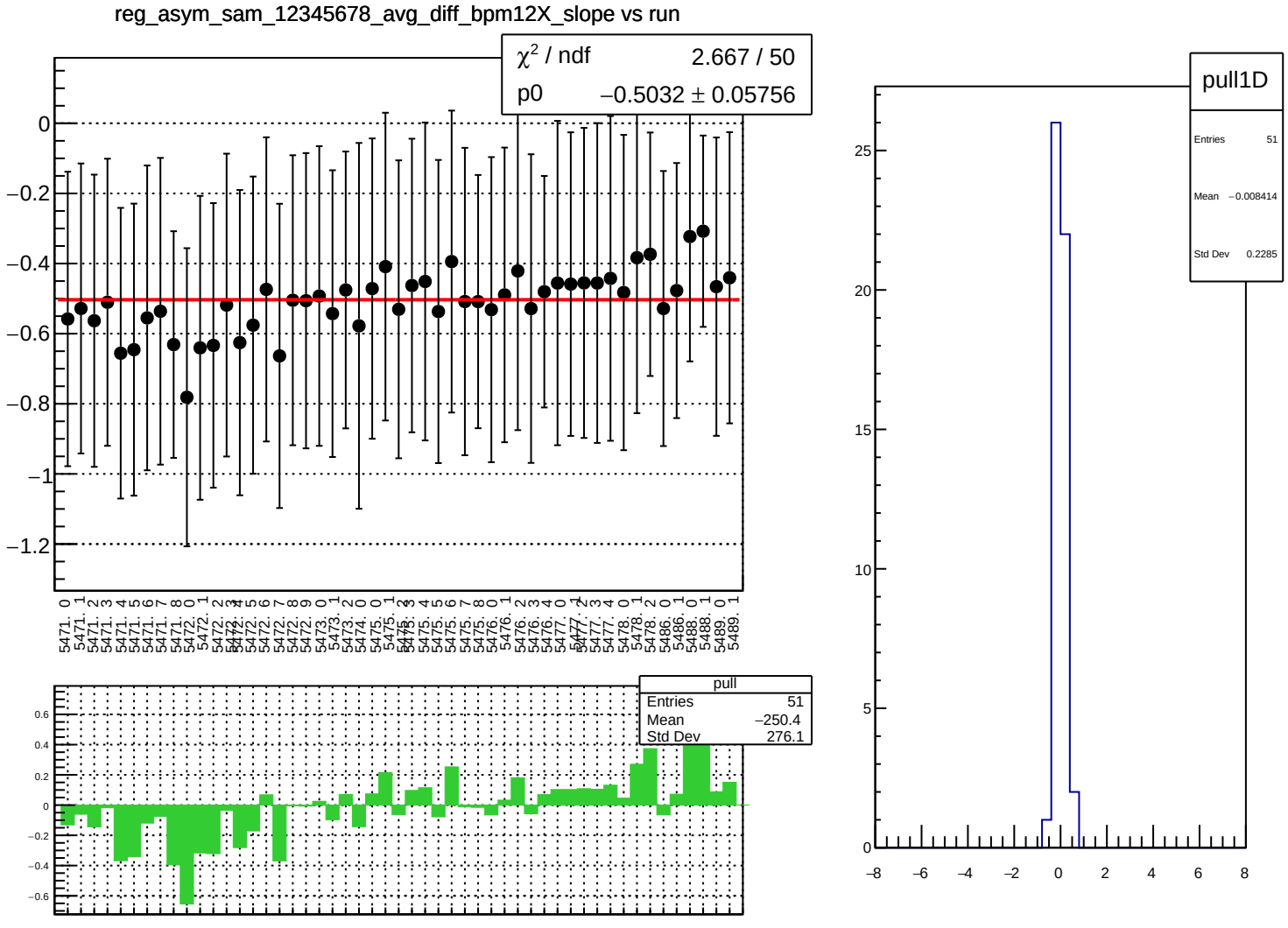

reg_asym_sam_12345678_avg_diff_bpm4aX_slope vs run
χ² / ndf 19.89 / 50
p0 −41.37 ± 2.341
pull
Entries 51
Mean −257.7
Std Dev 281.4

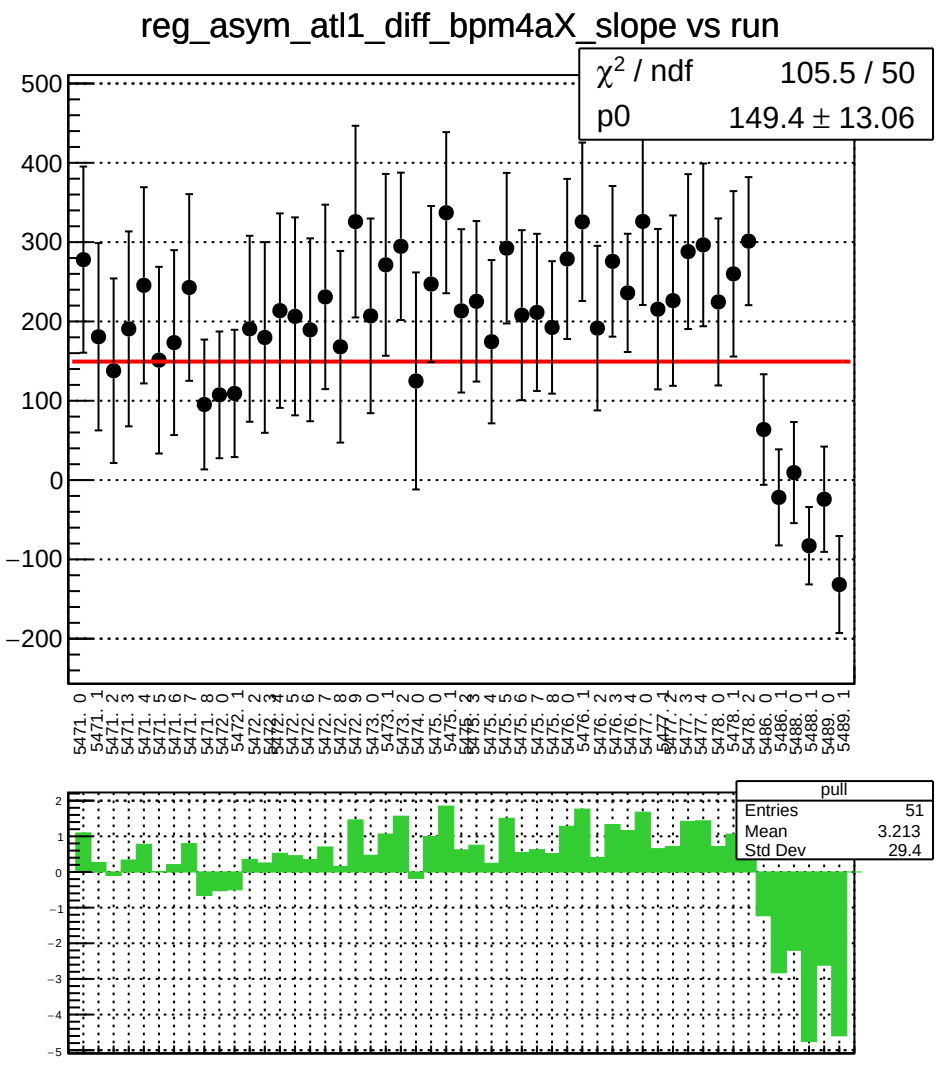

pull1D
Entries 51
Mean −0.02353
Std Dev 0.6241

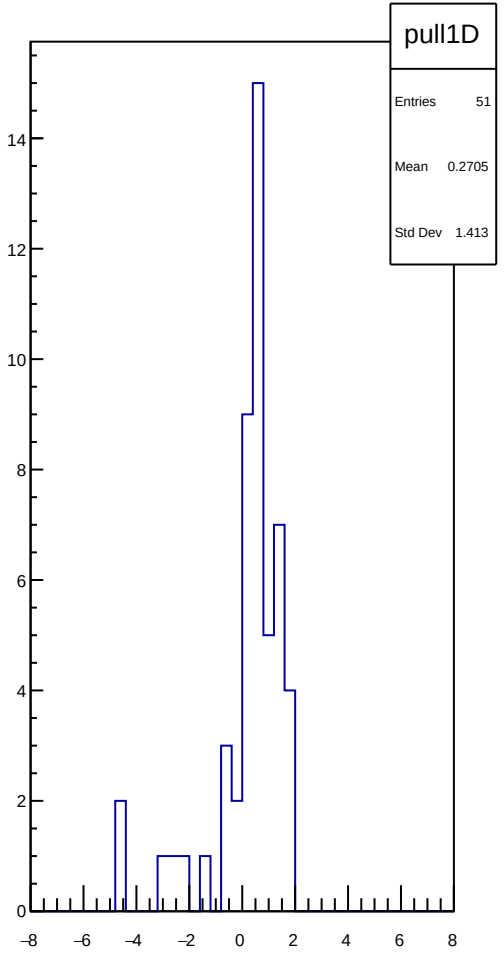

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.26 / 50
p0 −5.222 ± 1.29
pull
Entries 51
Mean 12
Std Dev 16.76
pull1D
Entries 51
Mean −0.3013
Std Dev 0.824

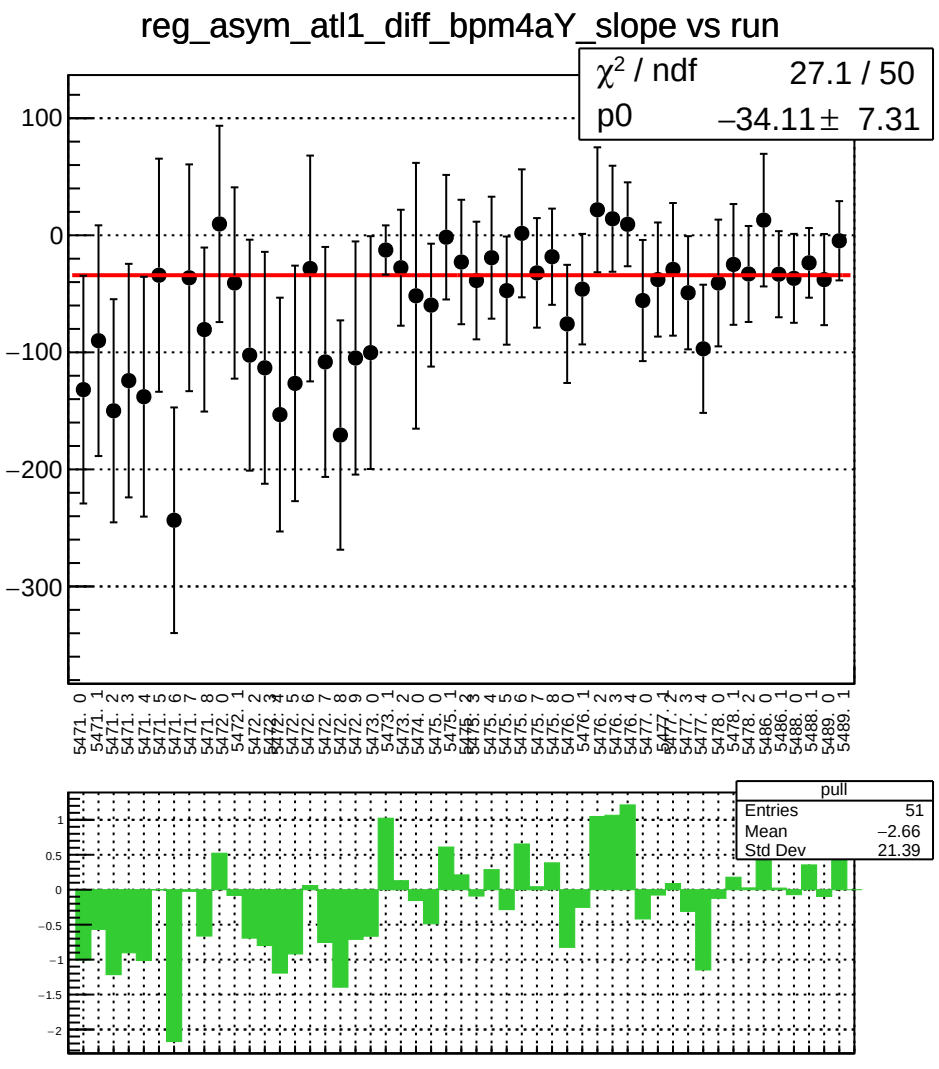

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.63 / 50
p0 −31.91 ± 2.267
pull
Entries 51
Mean −249
Std Dev 271.9
pull1D
Entries 51
Mean 0.02358
Std Dev 0.6356

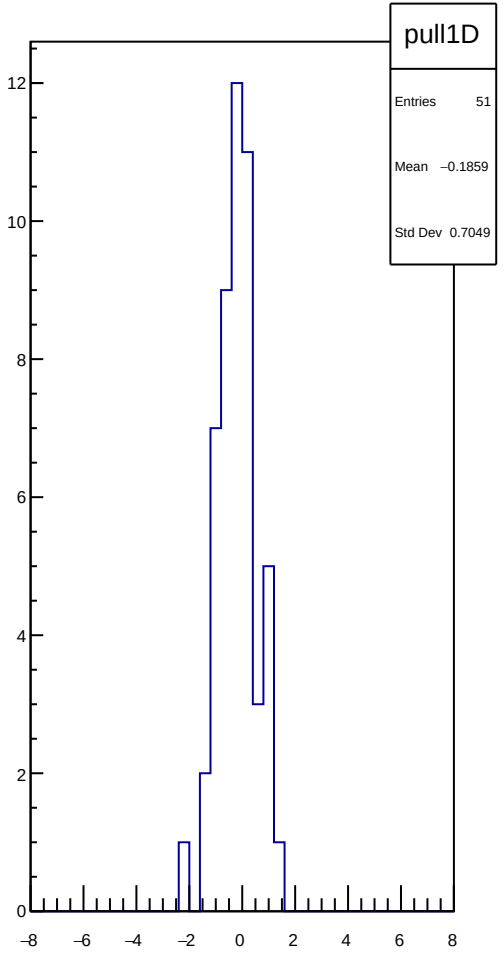

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.89 / 50
p0 −7.265 ± 1.624
pull
Entries 51
Mean 8.342
Std Dev 11.65
pull1D
Entries 51
Mean 0.281
Std Dev 0.7779

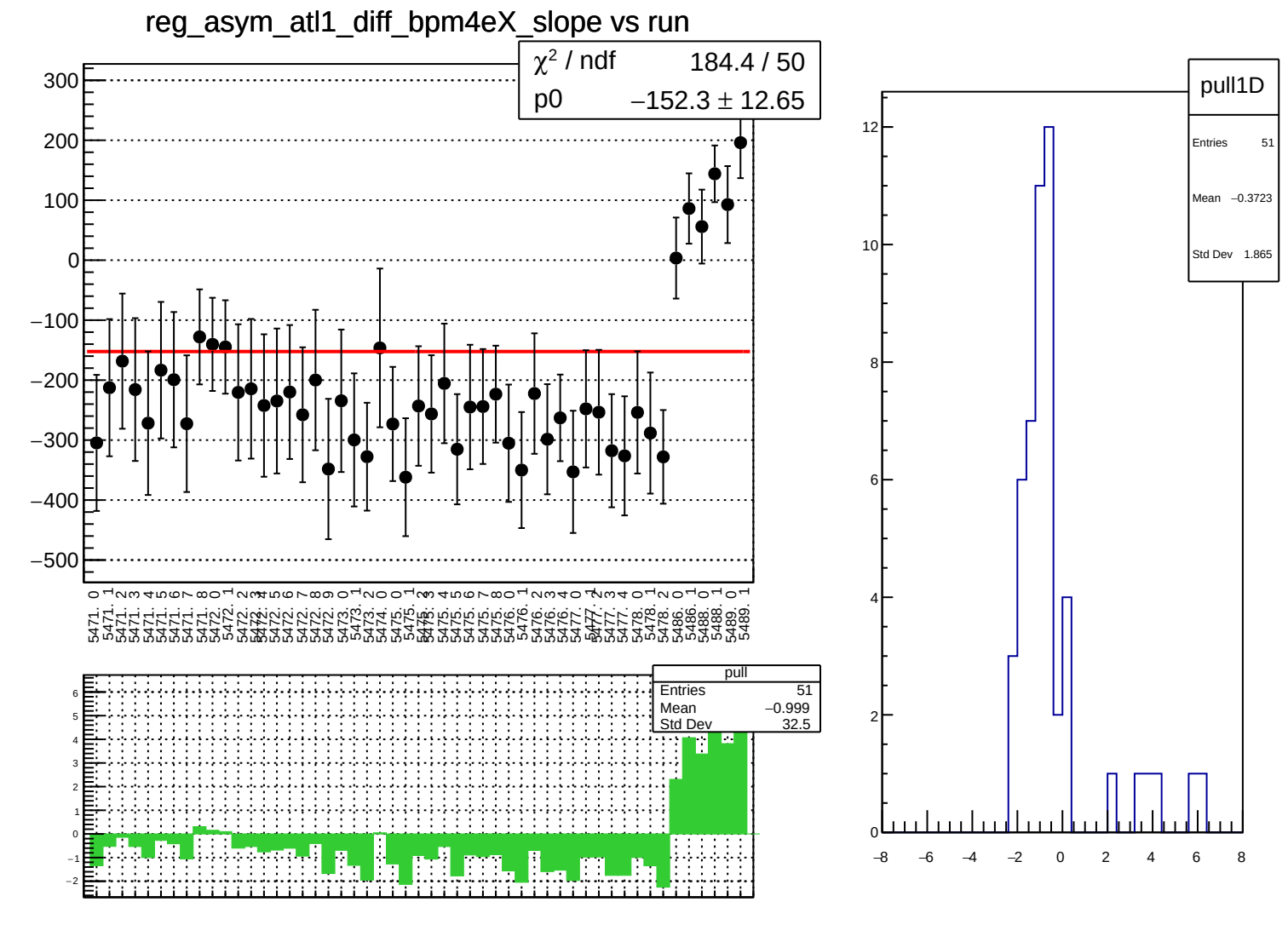

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 2.667 / 50
p0 −0.5032 ± 0.05756
pull
Entries 51
Mean −250.4
Std Dev 276.1
pull1D
Entries 51
Mean −0.008414
Std Dev 0.2285

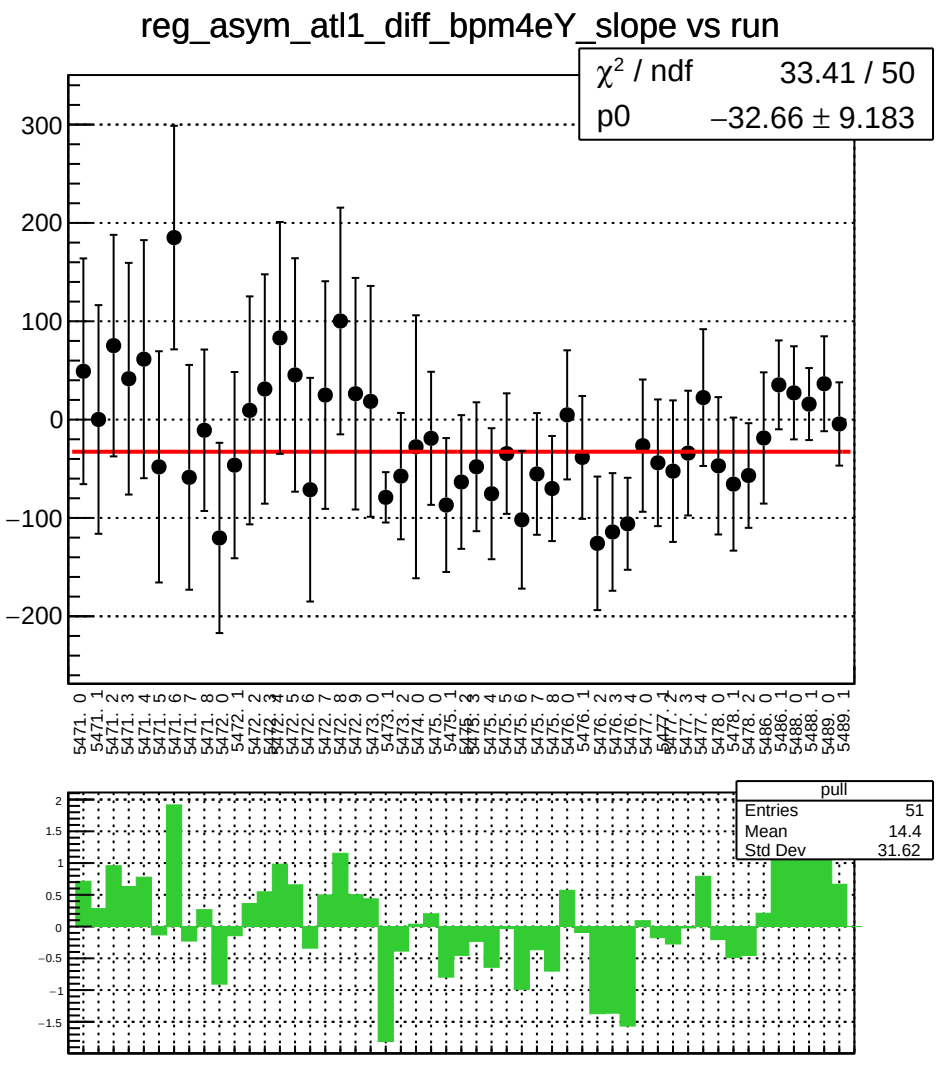

reg_asym_atl1_diff_bpm4aX_slope vs run
χ² / ndf 105.5 / 50
p0 149.4 ± 13.06
pull
Entries 51
Mean 3.213
Std Dev 29.4

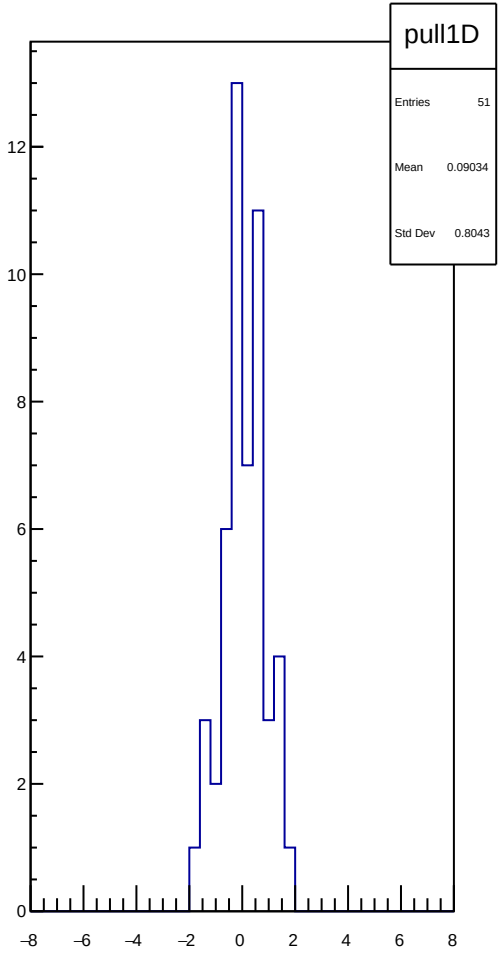

pull1D
Entries 51
Mean 0.2705
Std Dev 1.413

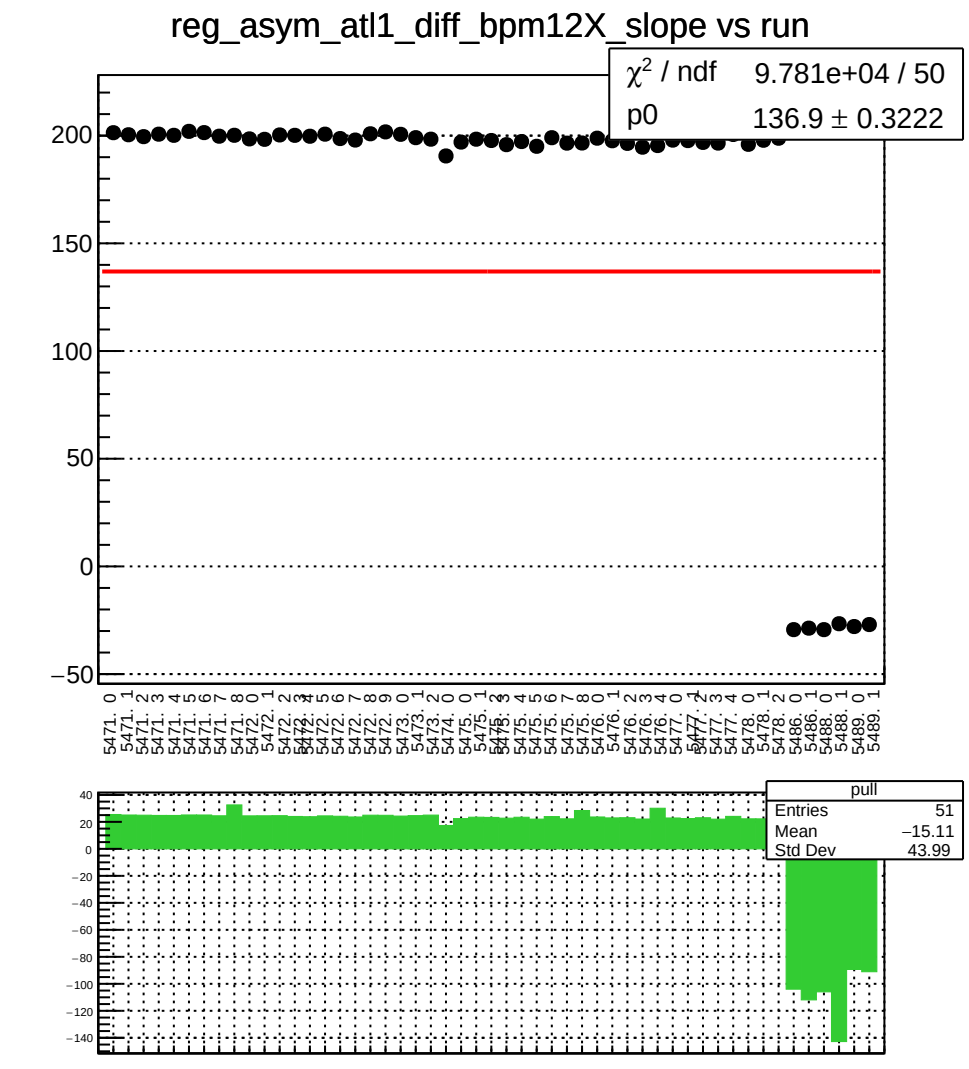

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 27.1 / 50
p0 −34.11 ± 7.31
pull
Entries 51
Mean −2.66
Std Dev 21.39

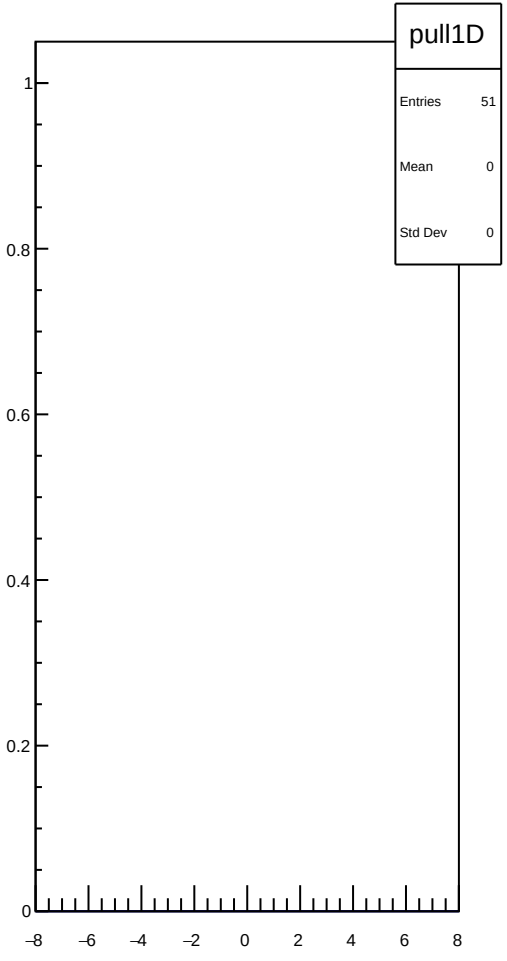

pull1D
Entries 51
Mean −0.1859
Std Dev 0.7049

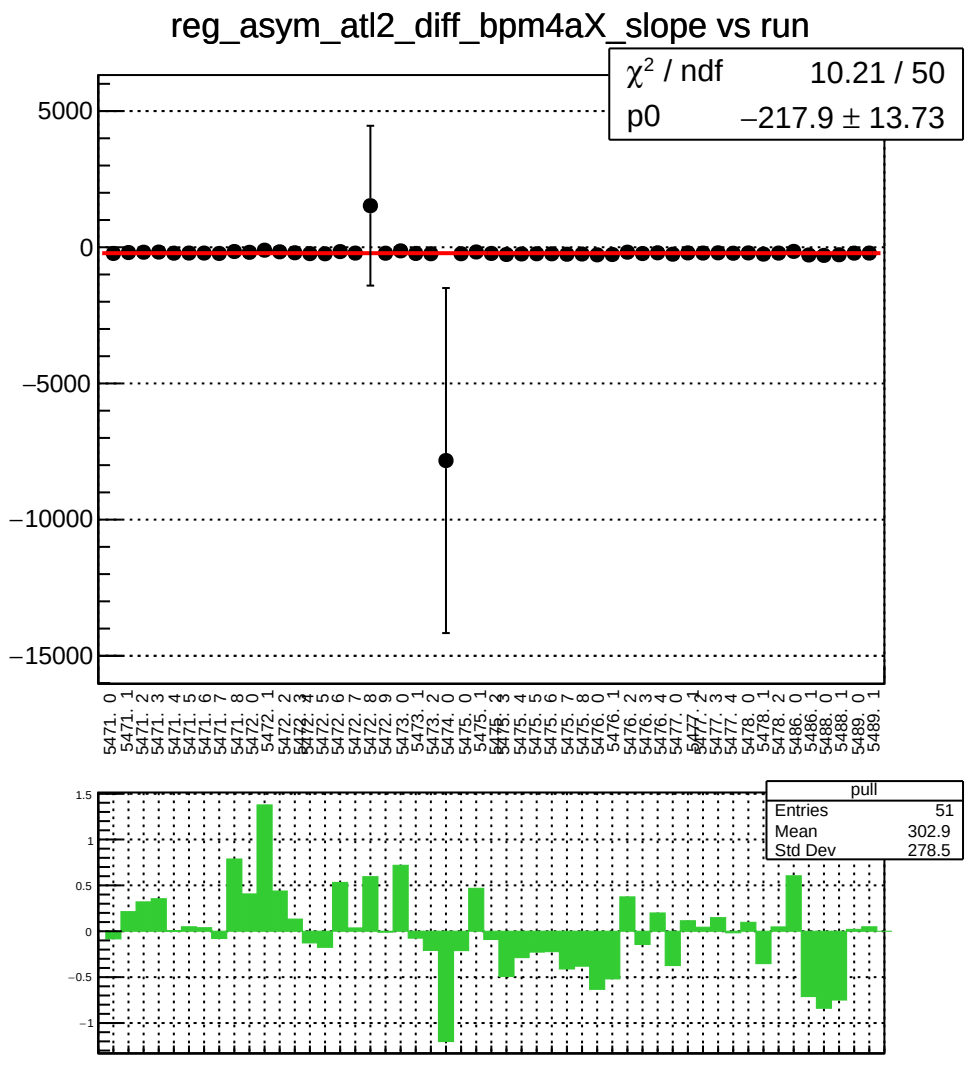

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 184.4 / 50
p0 −152.3 ± 12.65
pull
Entries 51
Mean −0.999
Std Dev 32.5
pull1D
Entries 51
Mean −0.3723
Std Dev 1.865

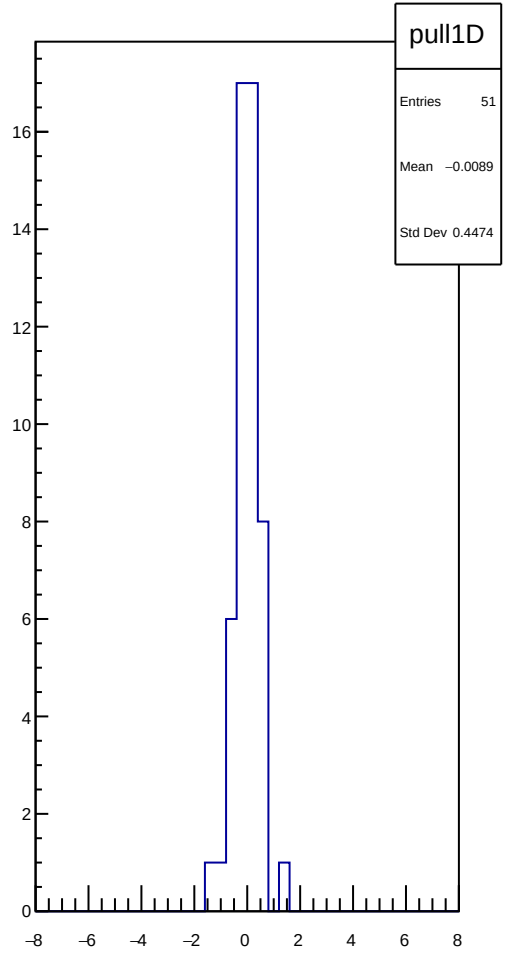

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 33.41 / 50
p0 −32.66 ± 9.183
pull
Entries 51
Mean 14.4
Std Dev 31.62

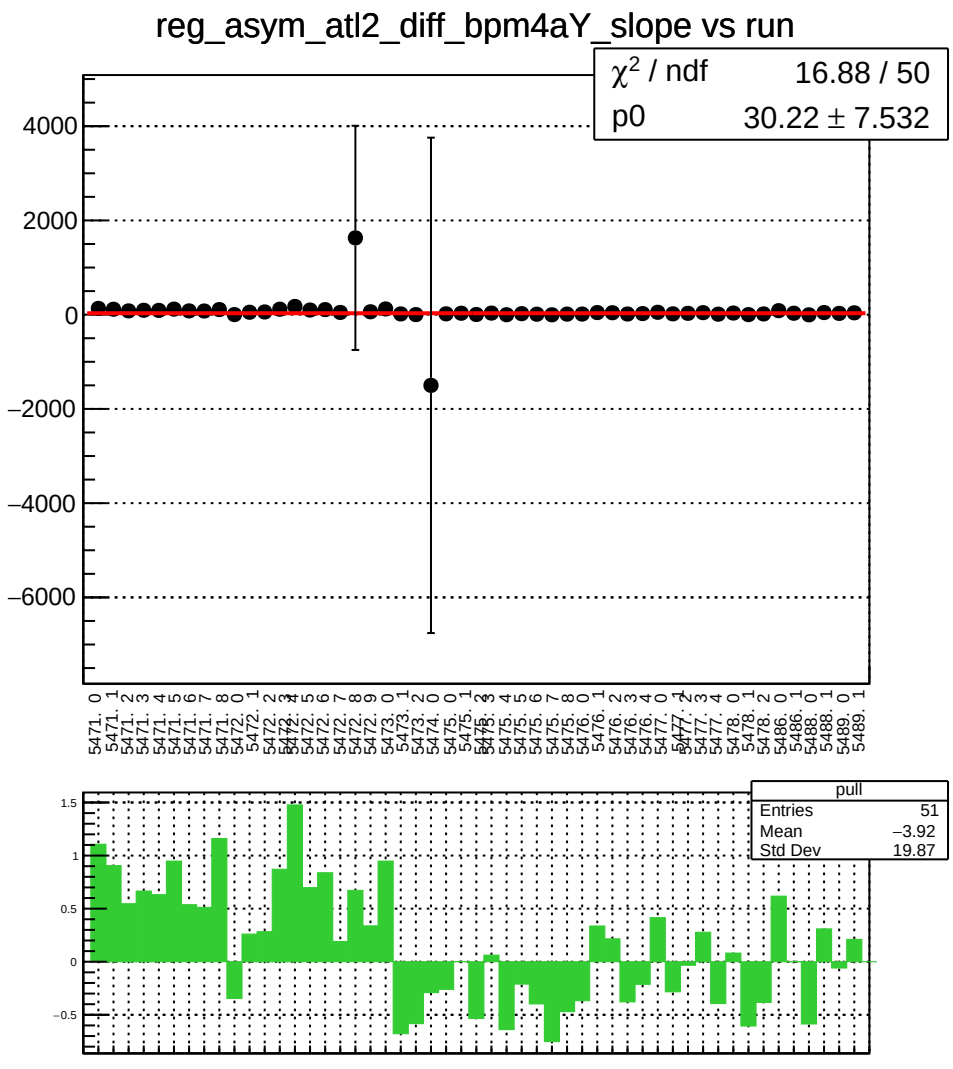

pull1D
Entries 51
Mean 0.09034
Std Dev 0.8043

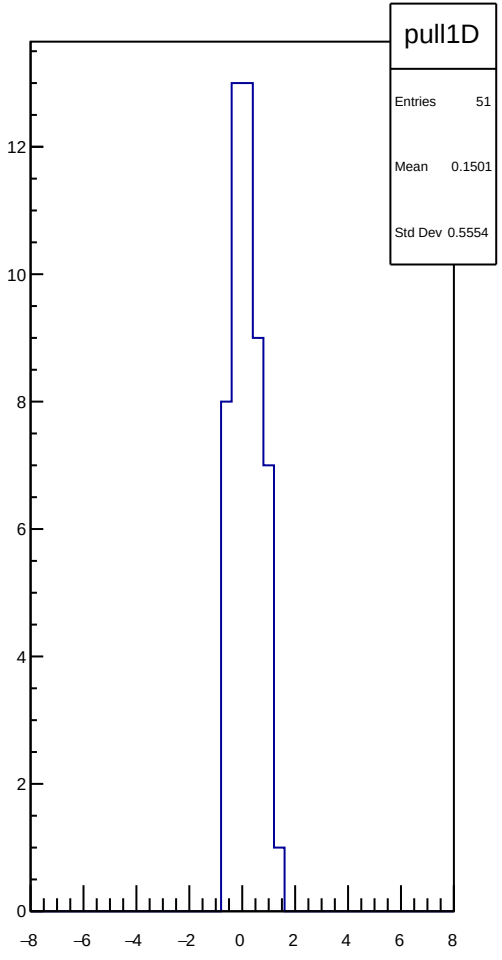

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 9.781e+04 / 50
p0 136.9 ± 0.3222
200
150
100
50
0
−50
pull
Entries 51
Mean −15.11
Std Dev 43.99
40
20
0
−20
−40
−60
−80
−100
−120
−140

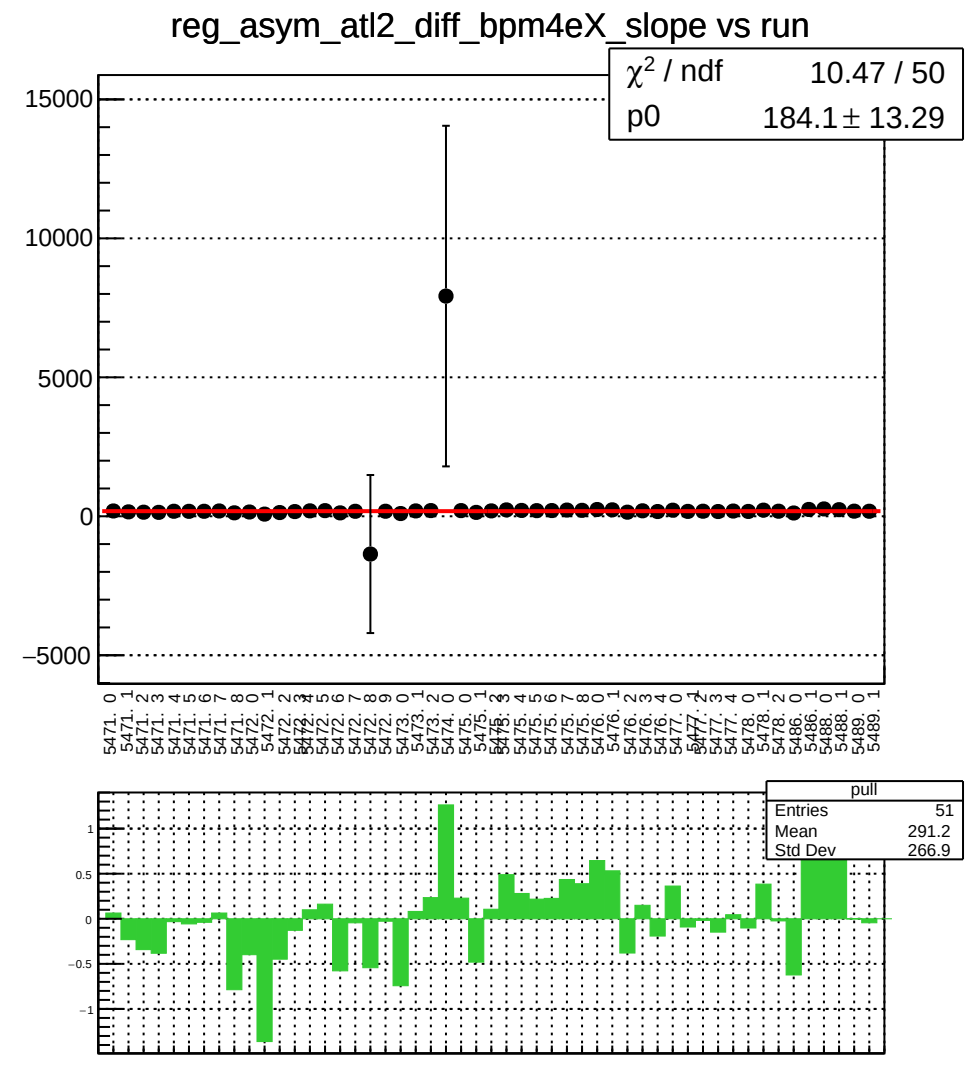

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

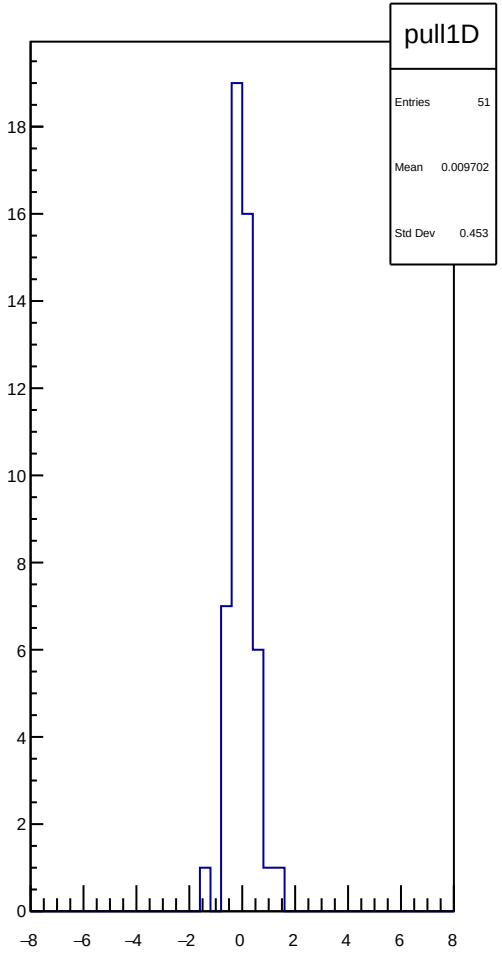

reg_asym_atl2_diff_bpm4aX_slope vs run
χ² / ndf 10.21 / 50
p0 −217.9 ± 13.73
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 302.9
Std Dev 278.5
1.5
1
0.5
0
−0.5
−1

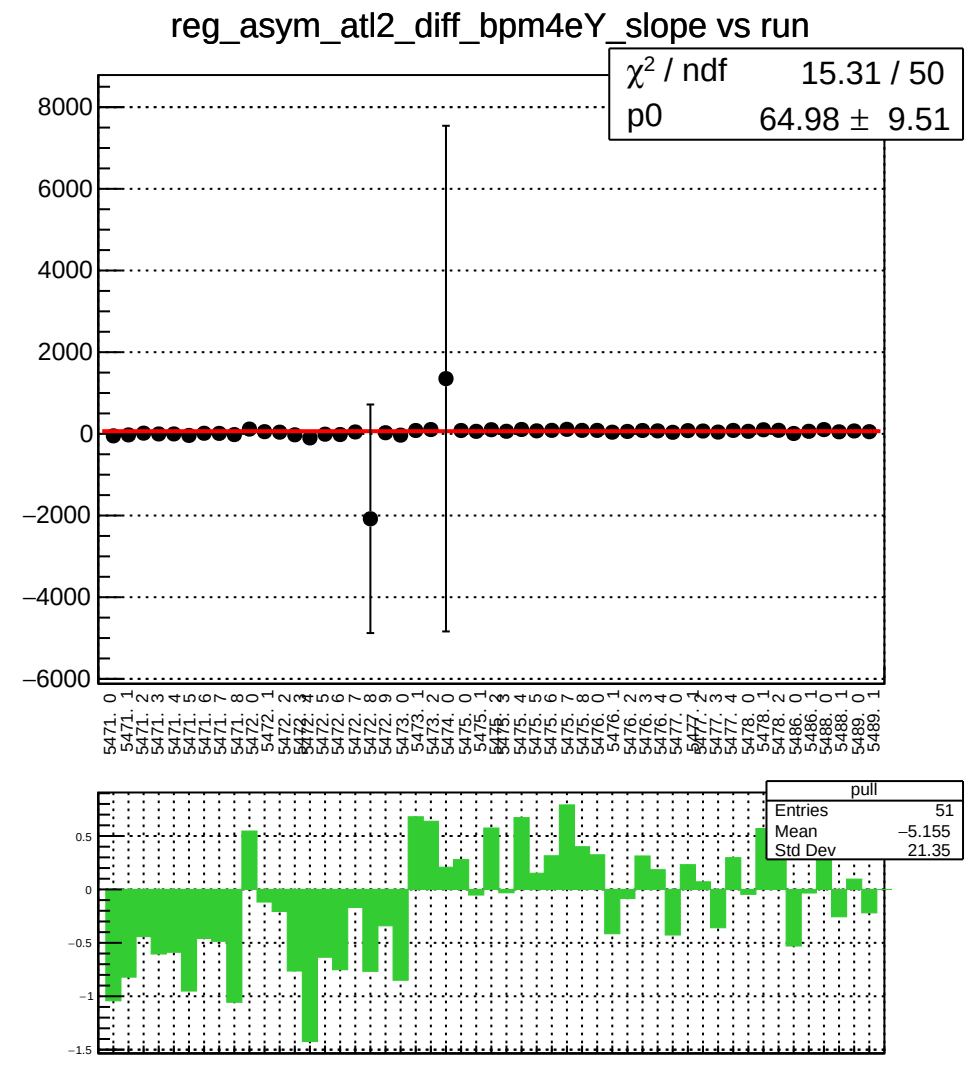

pull1D
Entries 51
Mean −0.0089
Std Dev 0.4474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

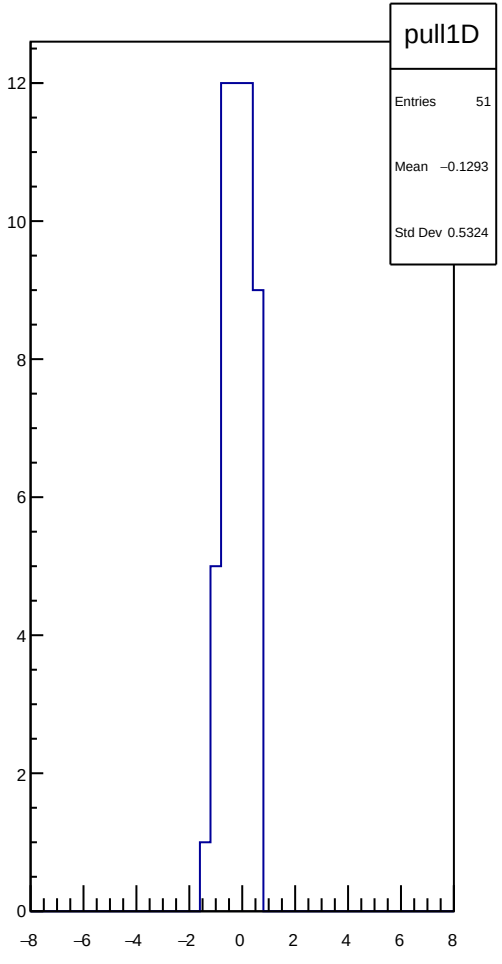

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 16.88 / 50
p0 30.22 ± 7.532
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean −3.92
Std Dev 19.87
1.5
1
0.5
0
−0.5

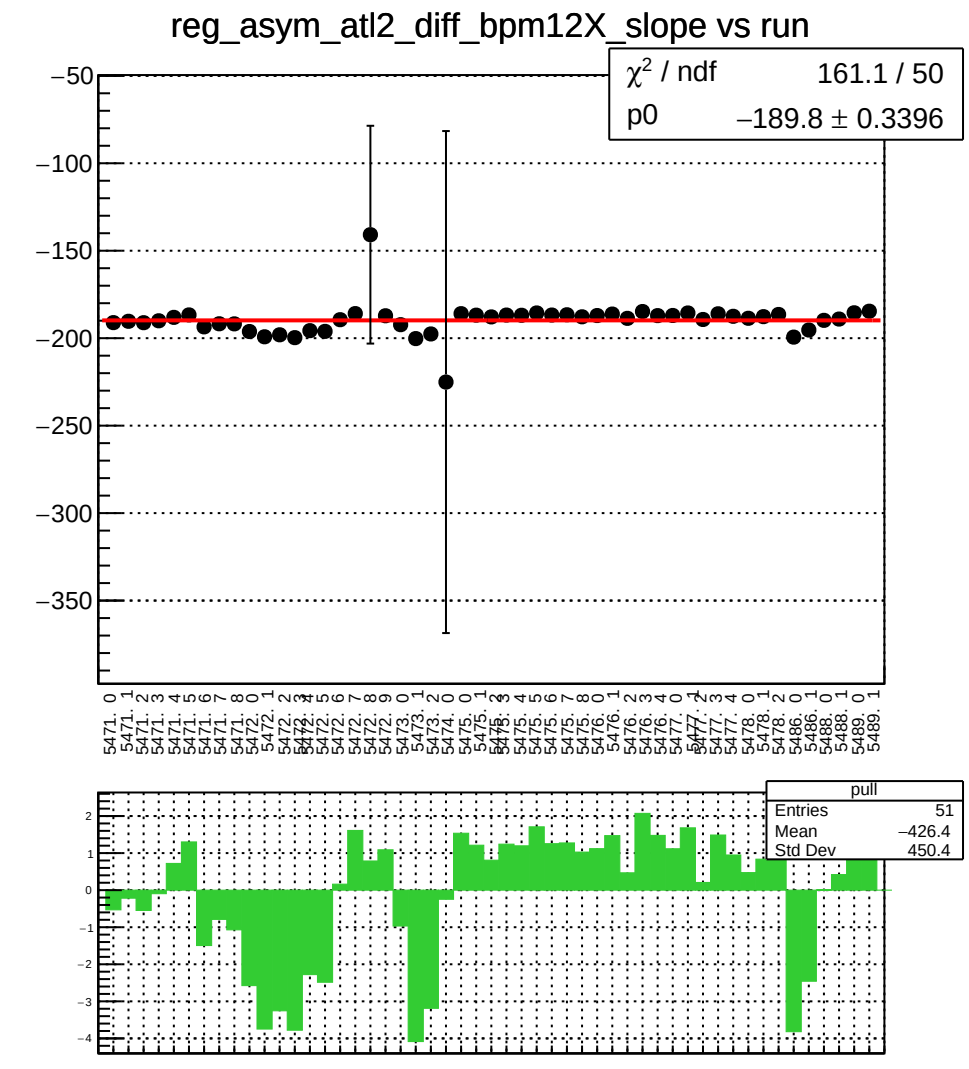

pull1D
Entries 51
Mean 0.1501
Std Dev 0.5554
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

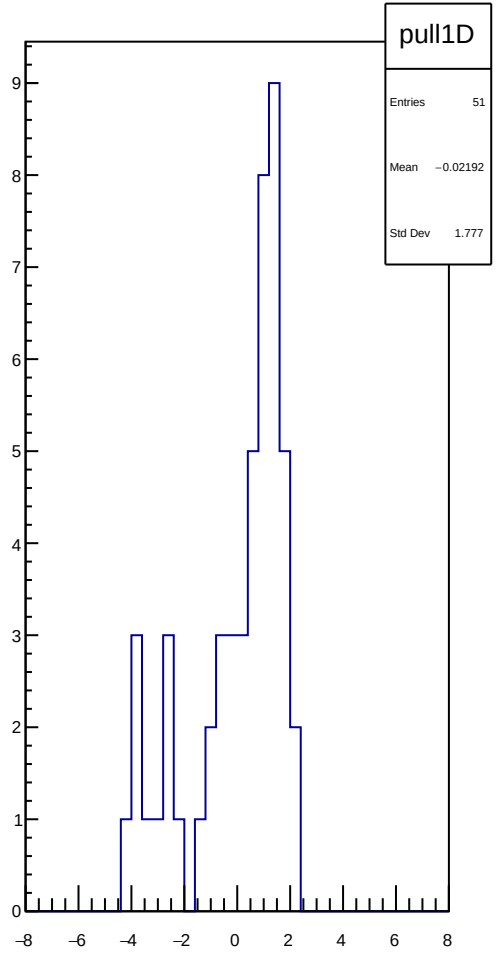

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 10.47 / 50
p0 184.1 ± 13.29
15000
10000
5000
0
−5000
pull
Entries 51
Mean 291.2
Std Dev 266.9
1
0.5
0
−0.5
−1

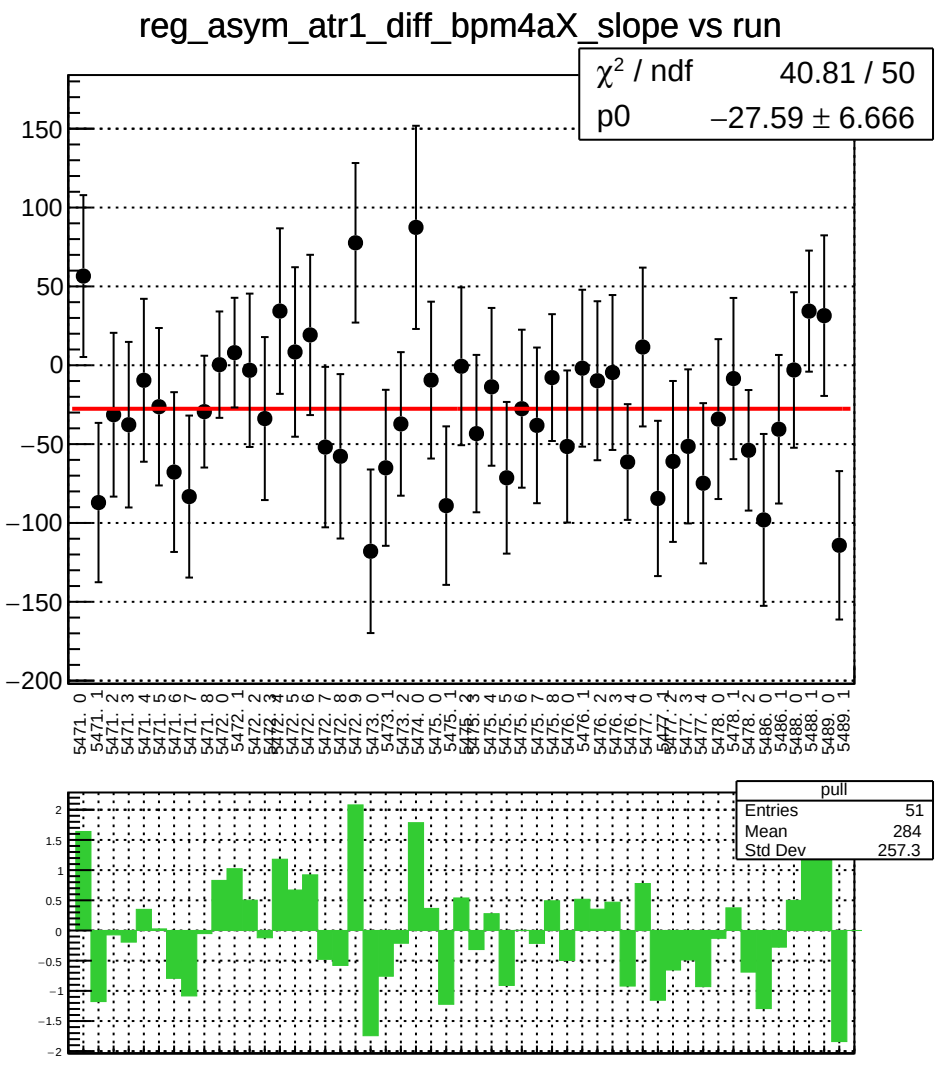

pull1D
Entries 51
Mean 0.009702
Std Dev 0.453
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

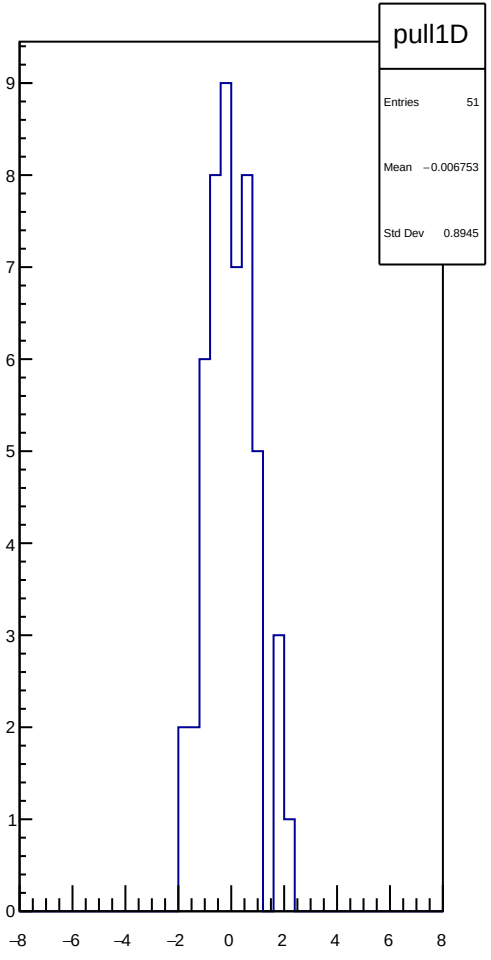

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 15.31 / 50
p0 64.98 ± 9.51
pull
Entries 51
Mean −5.155
Std Dev 21.35

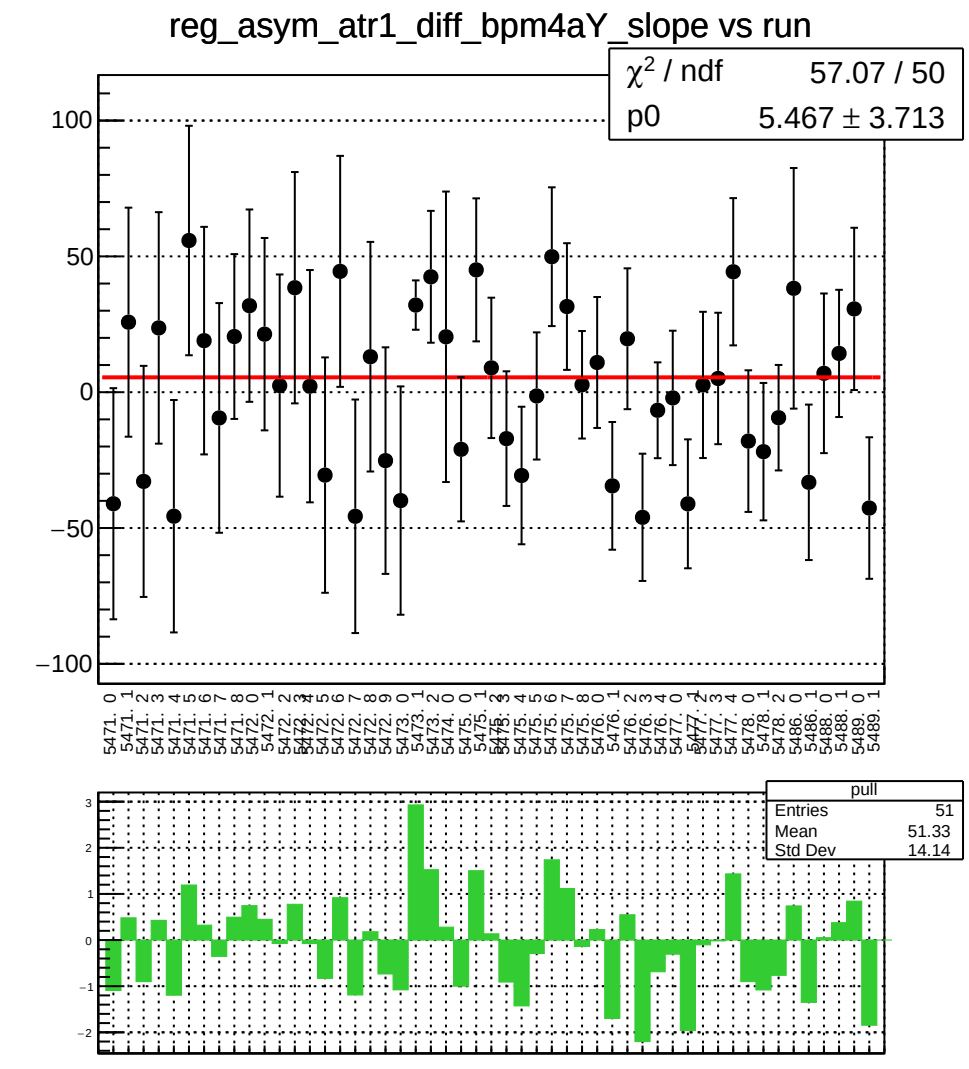

pull1D
Entries 51
Mean −0.1293
Std Dev 0.5324

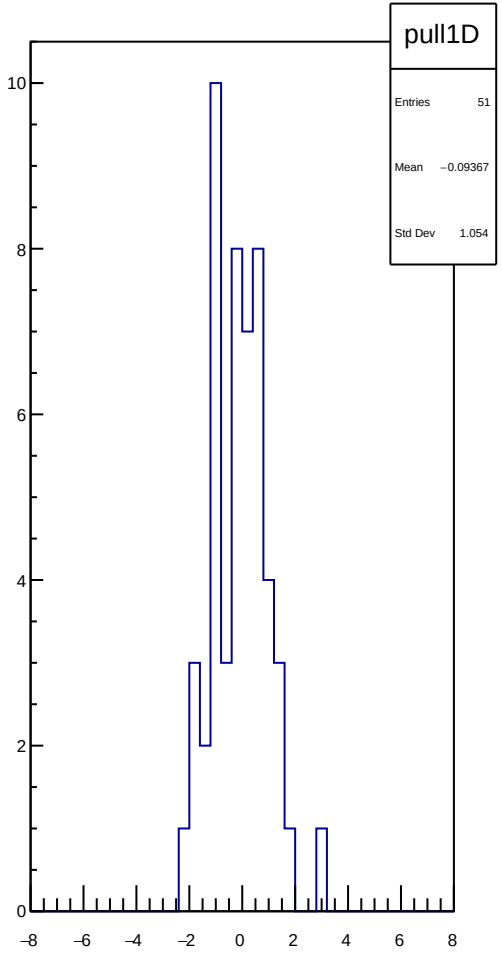

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 161.1 / 50
p0 −189.8 ± 0.3396
pull
Entries 51
Mean −426.4
Std Dev 450.4

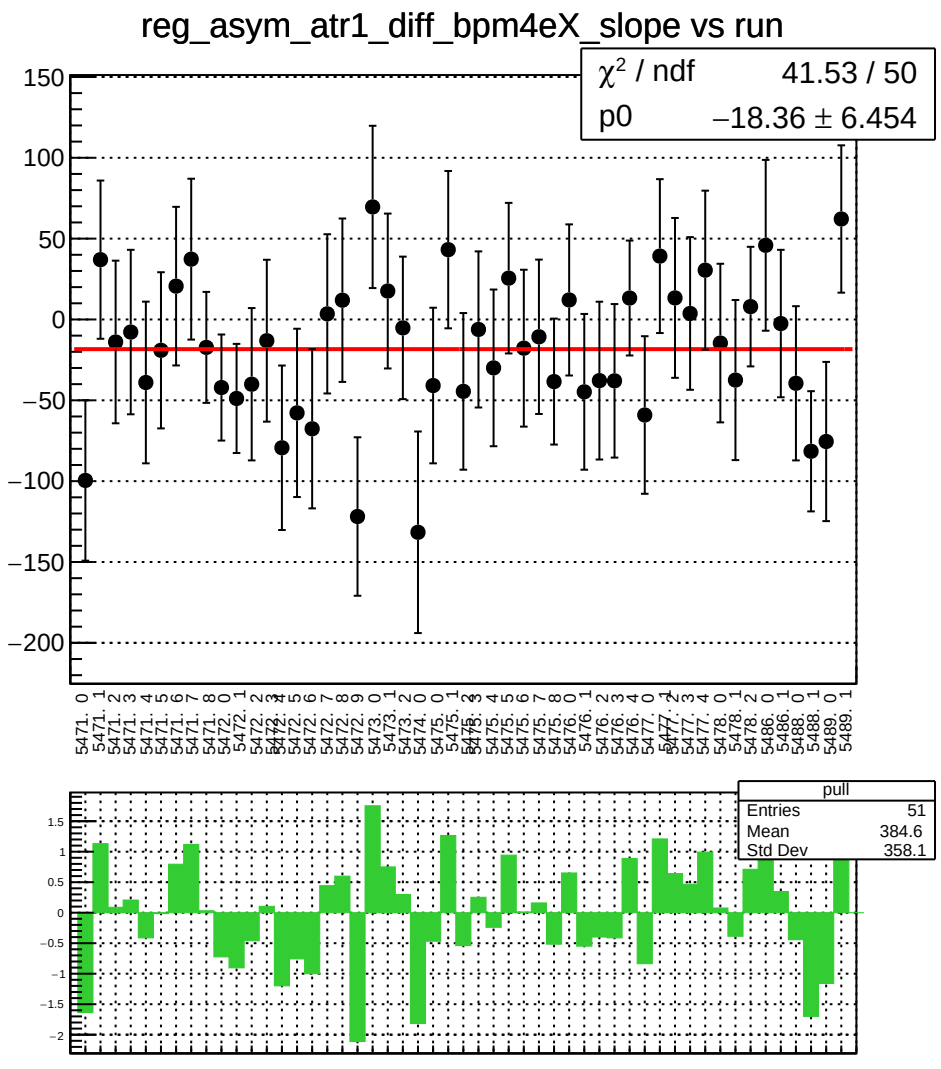

pull1D
Entries 51
Mean −0.02192
Std Dev 1.777

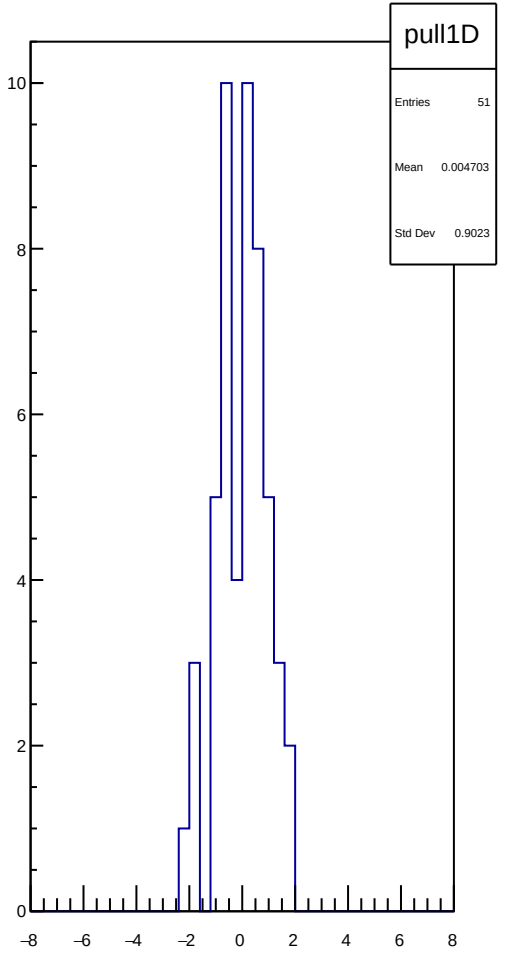

reg_asym_atr1_diff_bpm4aX_slope vs run
χ² / ndf 40.81 / 50
p0 −27.59 ± 6.666
pull
Entries 51
Mean 284
Std Dev 257.3

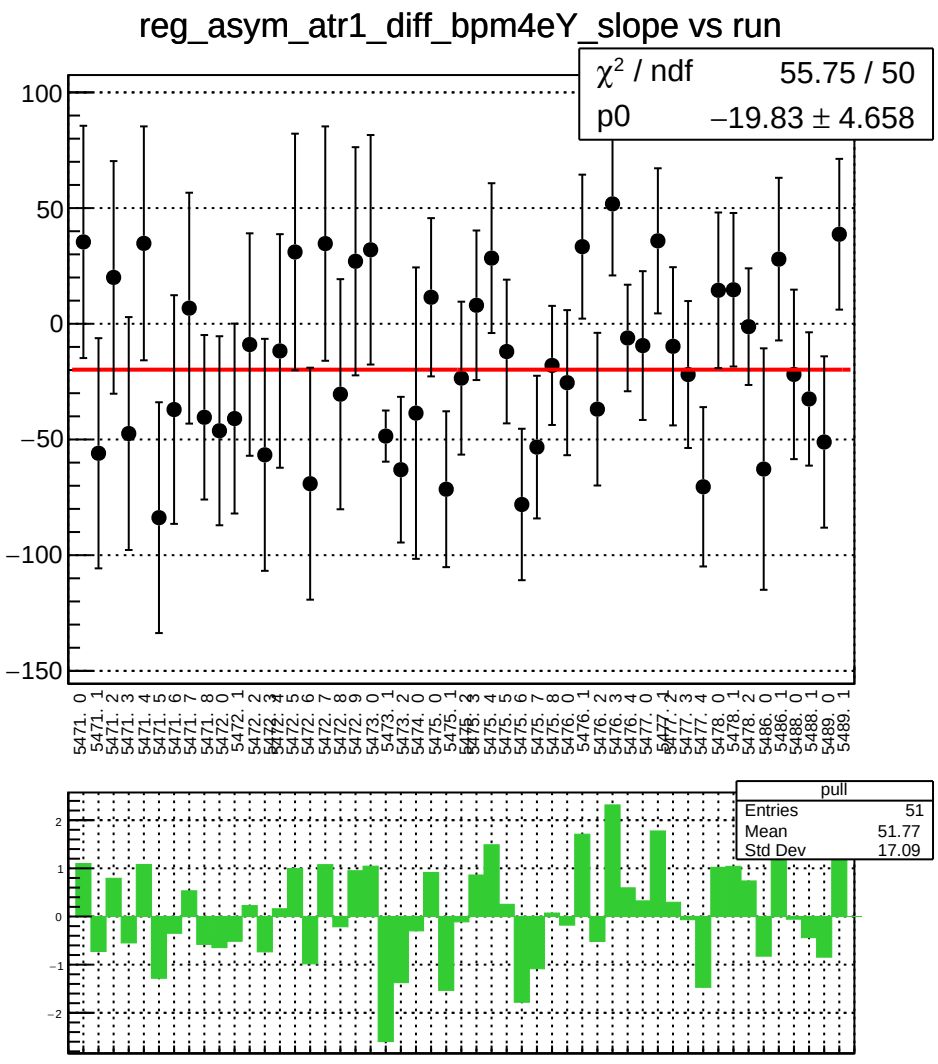

pull1D
Entries 51
Mean −0.006753
Std Dev 0.8945

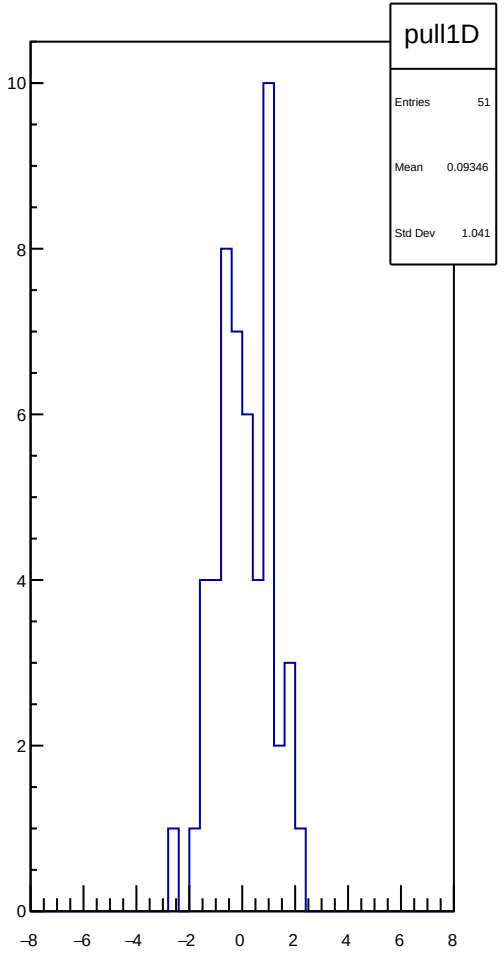

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 57.07 / 50
p0 5.467 ± 3.713
pull
Entries 51
Mean 51.33
Std Dev 14.14

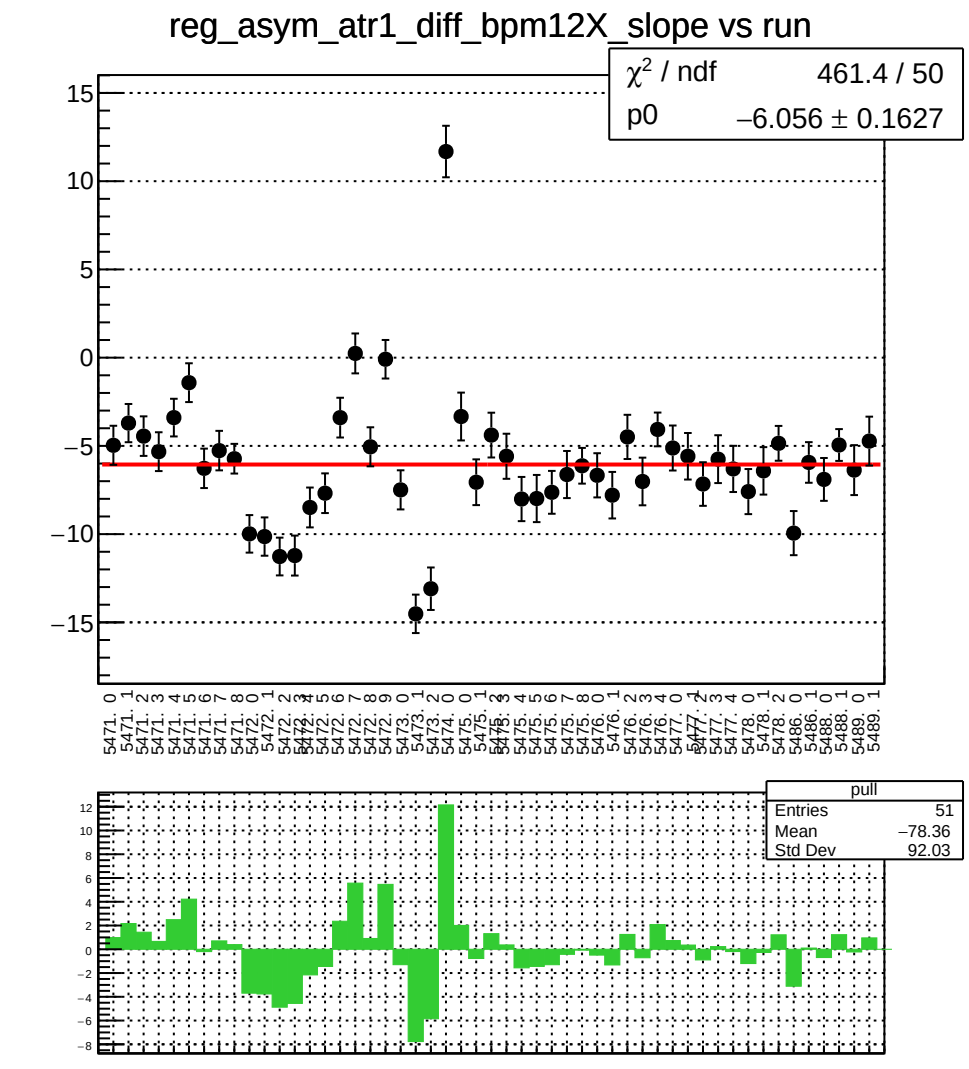

pull1D
Entries 51
Mean −0.09367
Std Dev 1.054

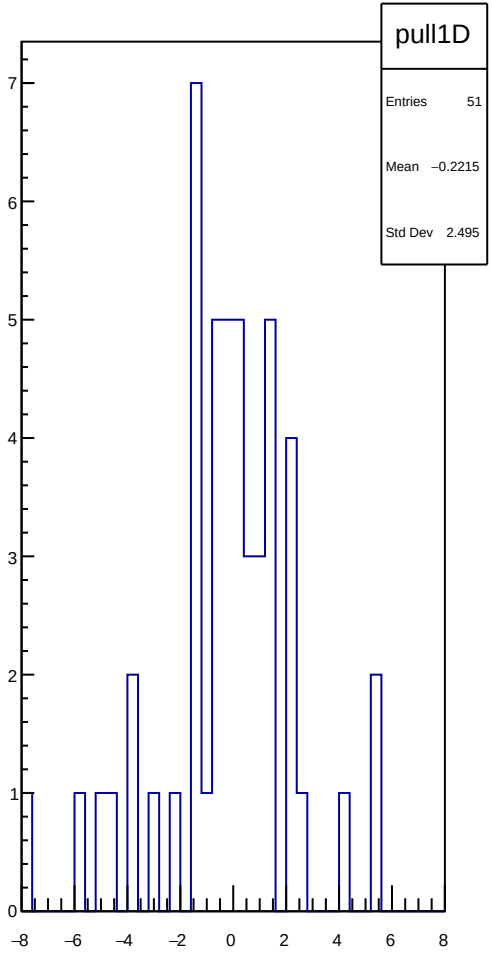

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 41.53 / 50
p0 −18.36 ± 6.454
pull
Entries 51
Mean 384.6
Std Dev 358.1

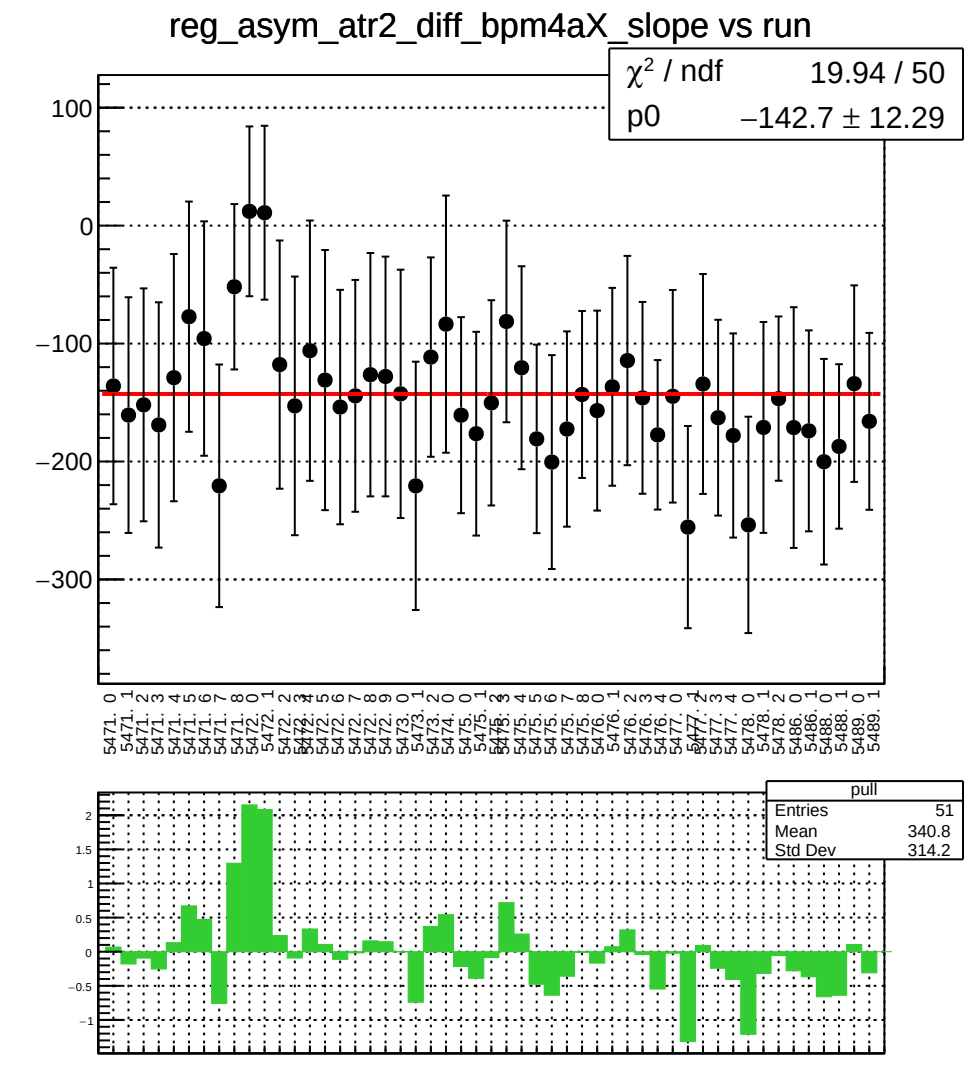

pull1D
Entries 51
Mean 0.004703
Std Dev 0.9023

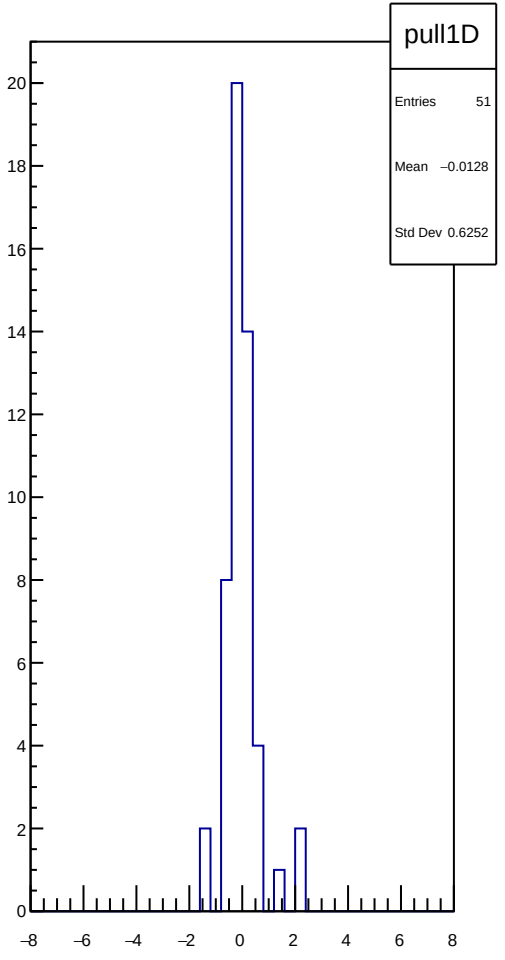

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 55.75 / 50
p0 −19.83 ± 4.658
pull
Entries 51
Mean 51.77
Std Dev 17.09

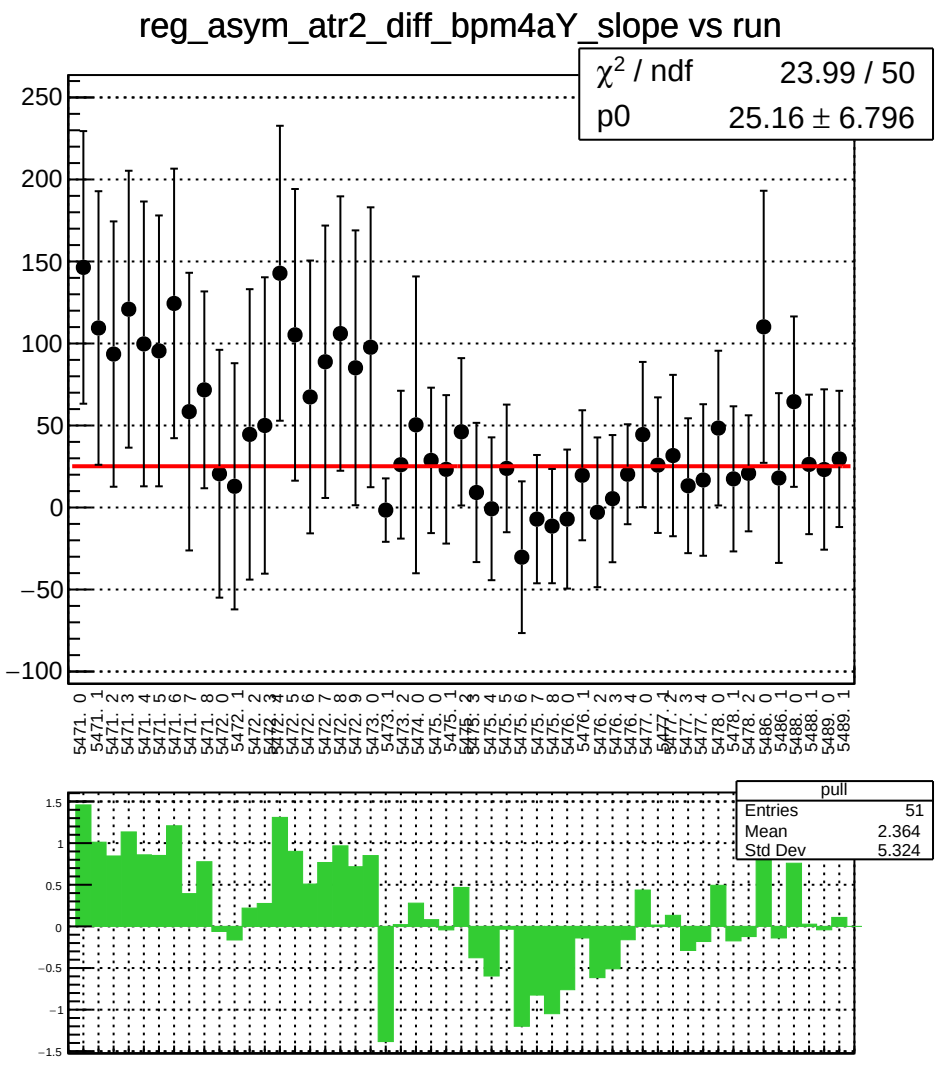

pull1D
Entries 51
Mean 0.09346
Std Dev 1.041

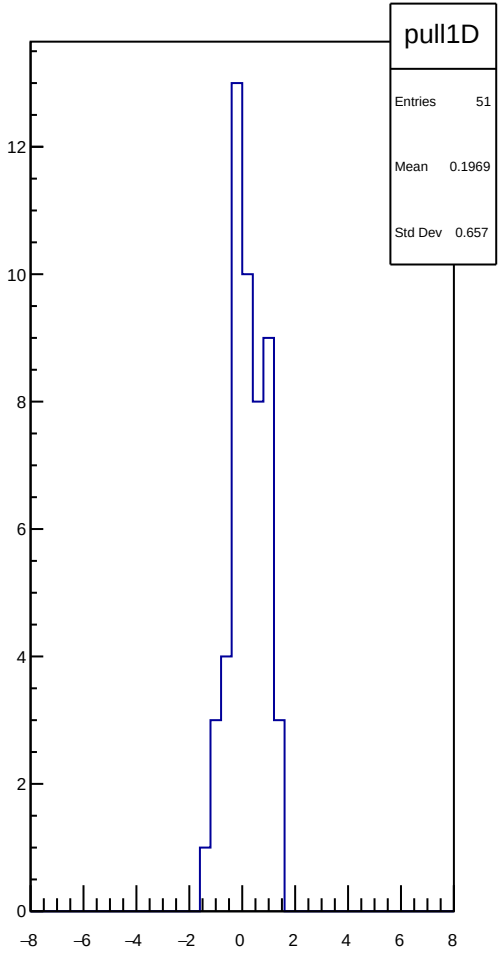

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 461.4 / 50
p0 −6.056 ± 0.1627
pull
Entries 51
Mean −78.36
Std Dev 92.03

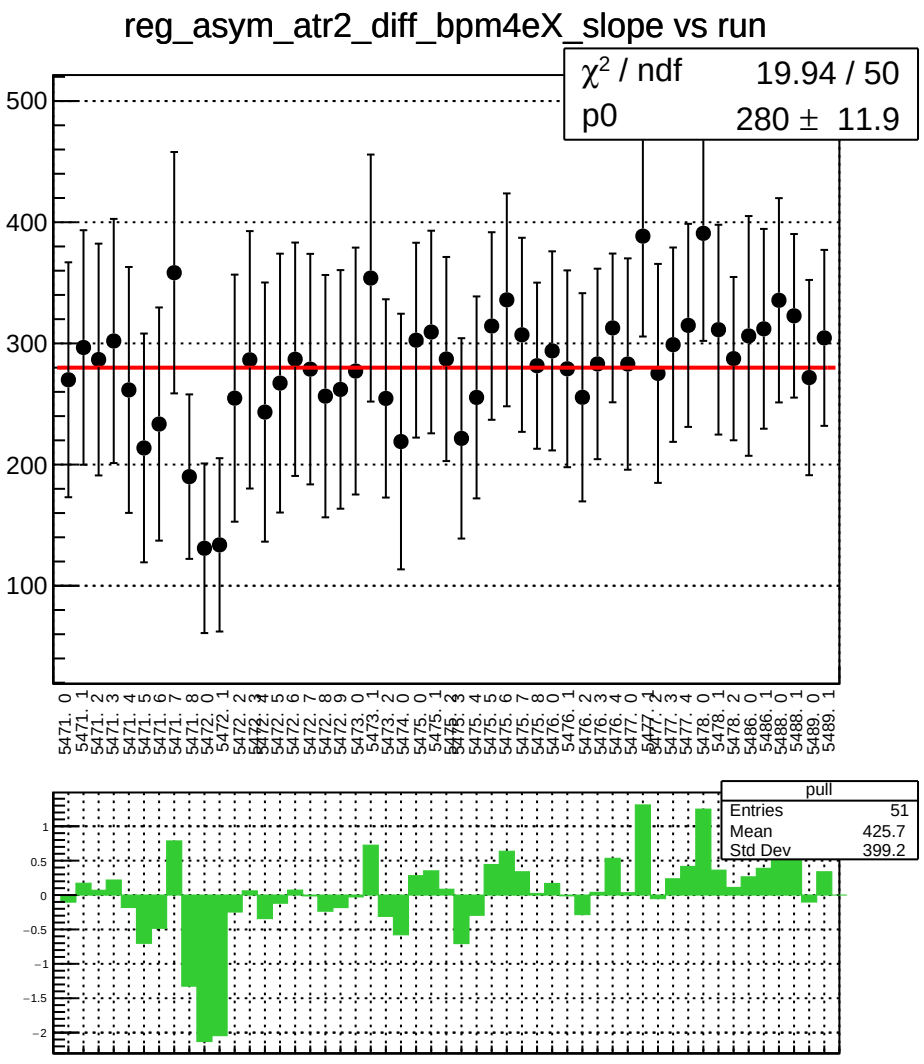

pull1D
Entries 51
Mean −0.2215
Std Dev 2.495

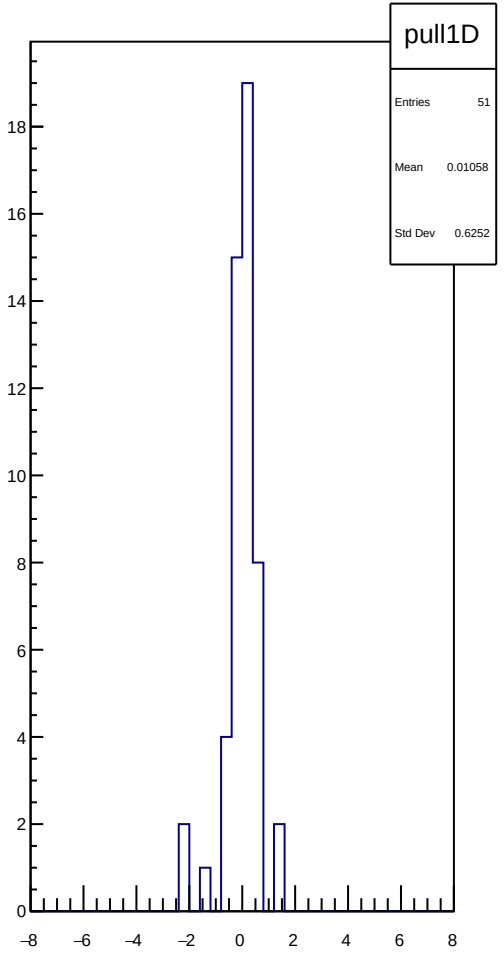

reg_asym_atr2_diff_bpm4aX_slope vs run
χ² / ndf 19.94 / 50
p0 −142.7 ± 12.29
pull
Entries 51
Mean 340.8
Std Dev 314.2

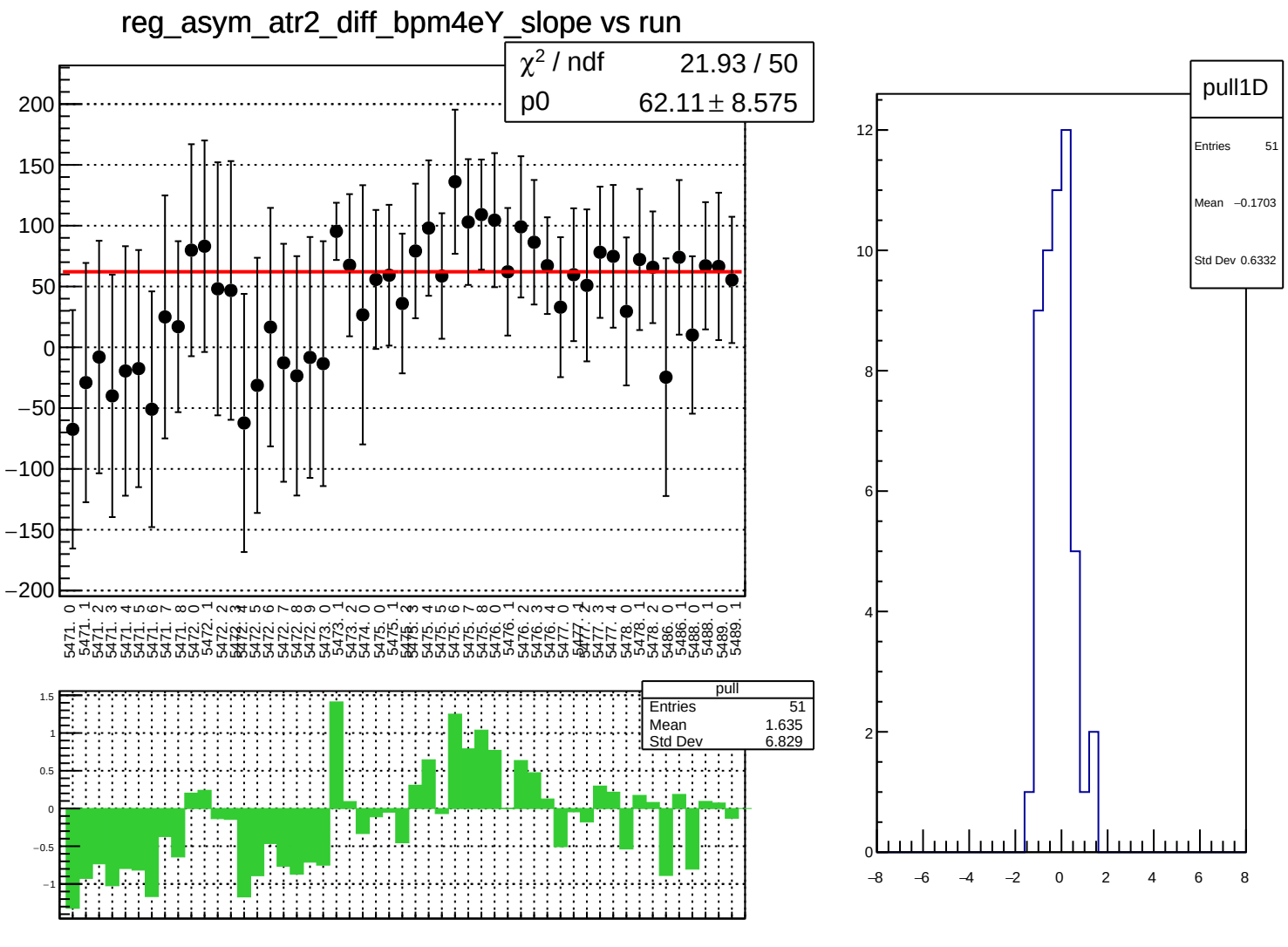

pull1D
Entries 51
Mean −0.0128
Std Dev 0.6252

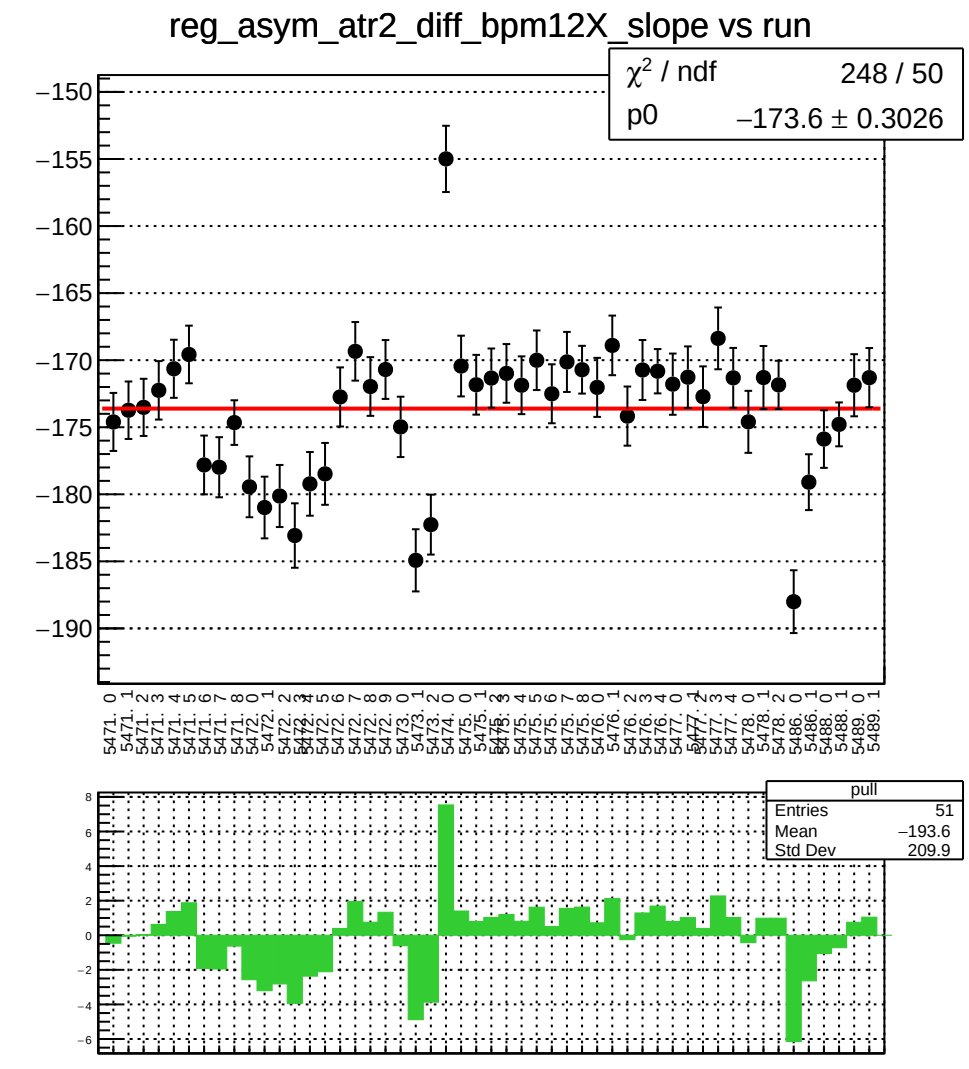

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 23.99 / 50
p0 25.16 ± 6.796
pull
Entries 51
Mean 2.364
Std Dev 5.324

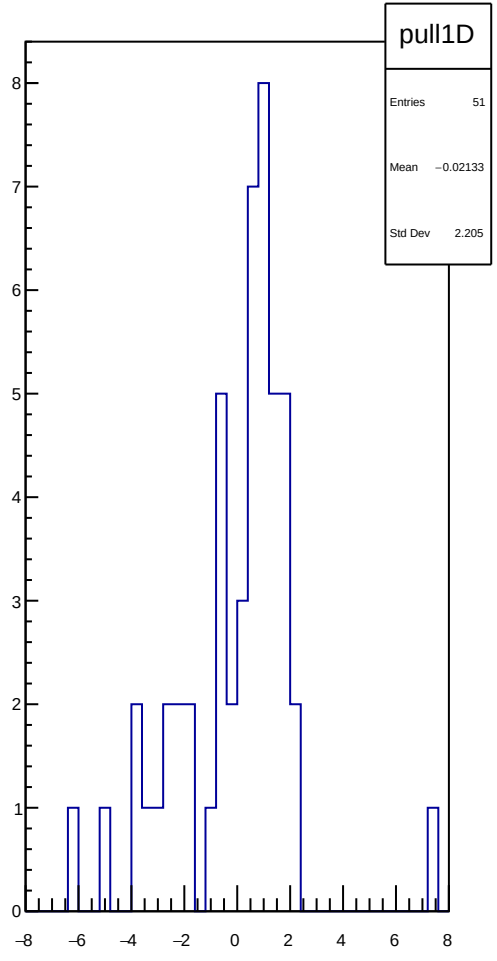

pull1D
Entries 51
Mean 0.1969
Std Dev 0.657

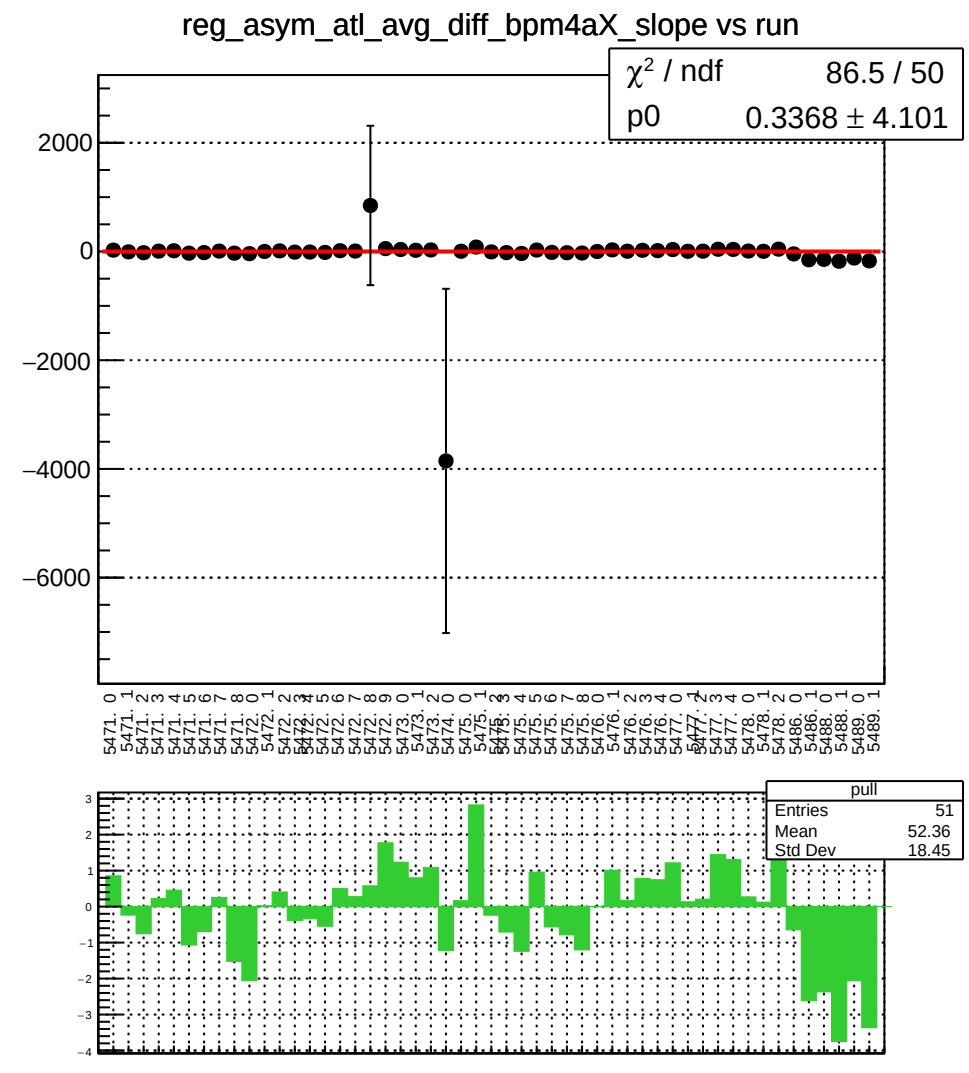

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 19.94 / 50
p0 280 ± 11.9
pull
Entries 51
Mean 425.7
Std Dev 399.2

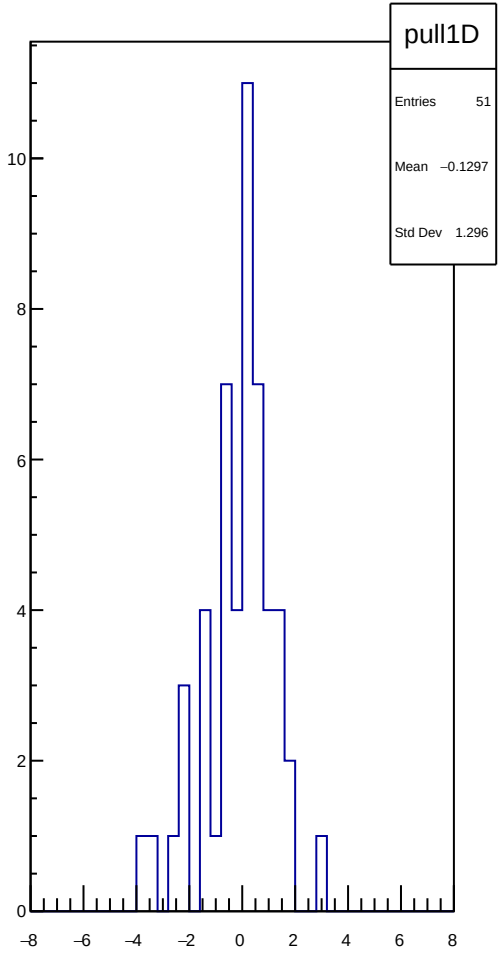

pull1D
Entries 51
Mean 0.01058
Std Dev 0.6252

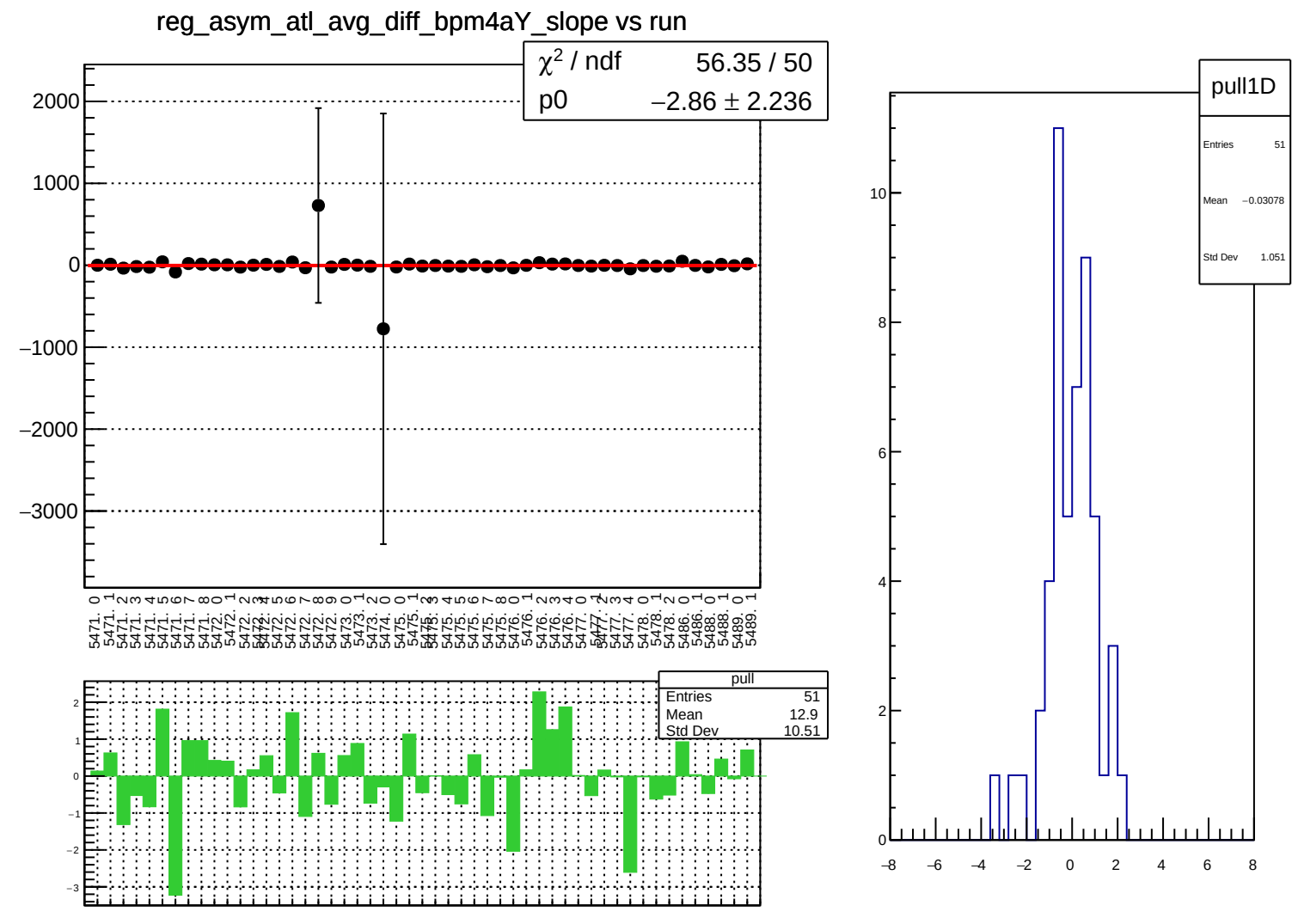

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 21.93 / 50
p0 62.11 ± 8.575
pull
Entries 51
Mean 1.635
Std Dev 6.829
pull1D
Entries 51
Mean −0.1703
Std Dev 0.6332

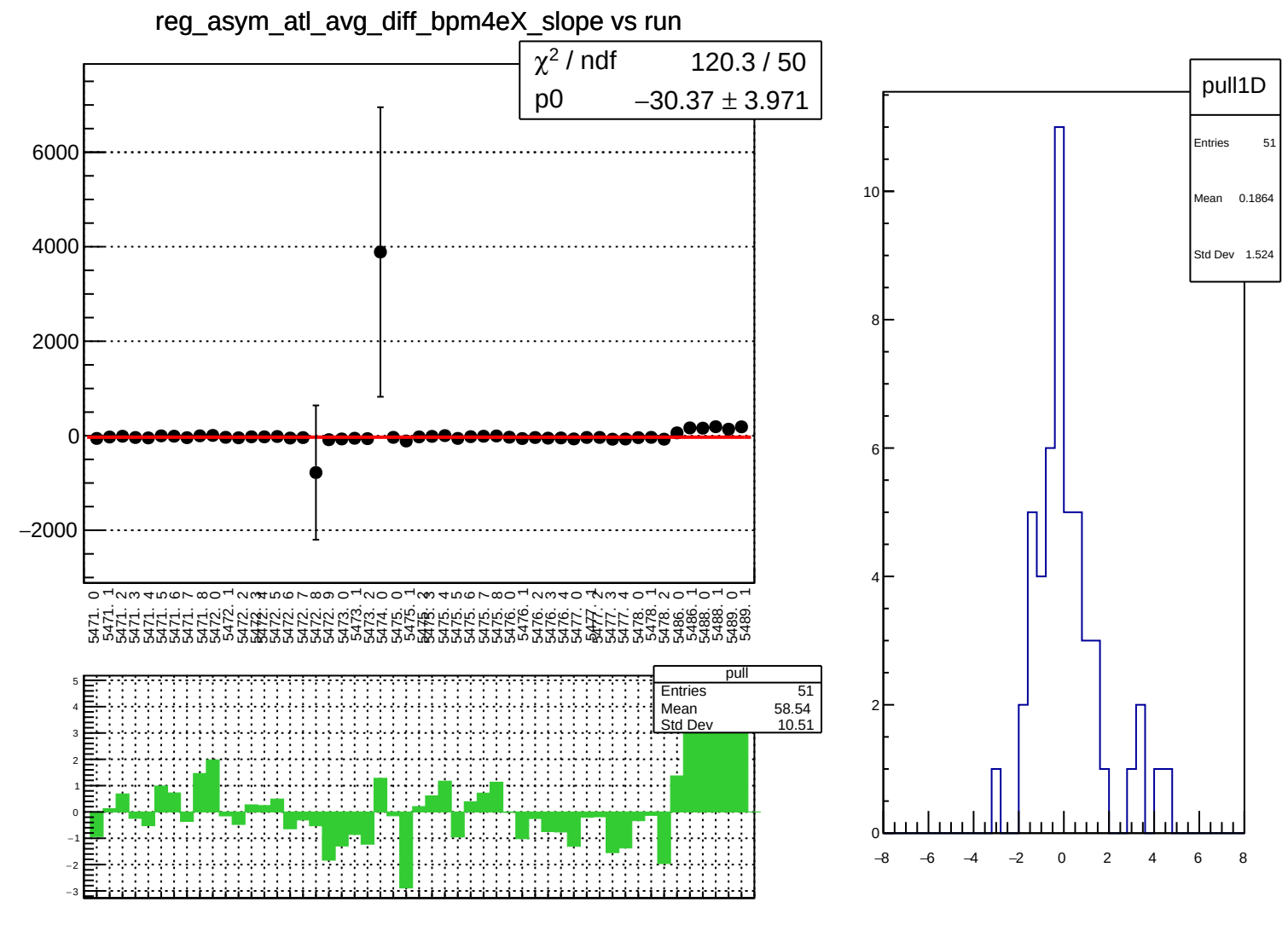

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 248 / 50
p0 −173.6 ± 0.3026
pull
Entries 51
Mean −193.6
Std Dev 209.9

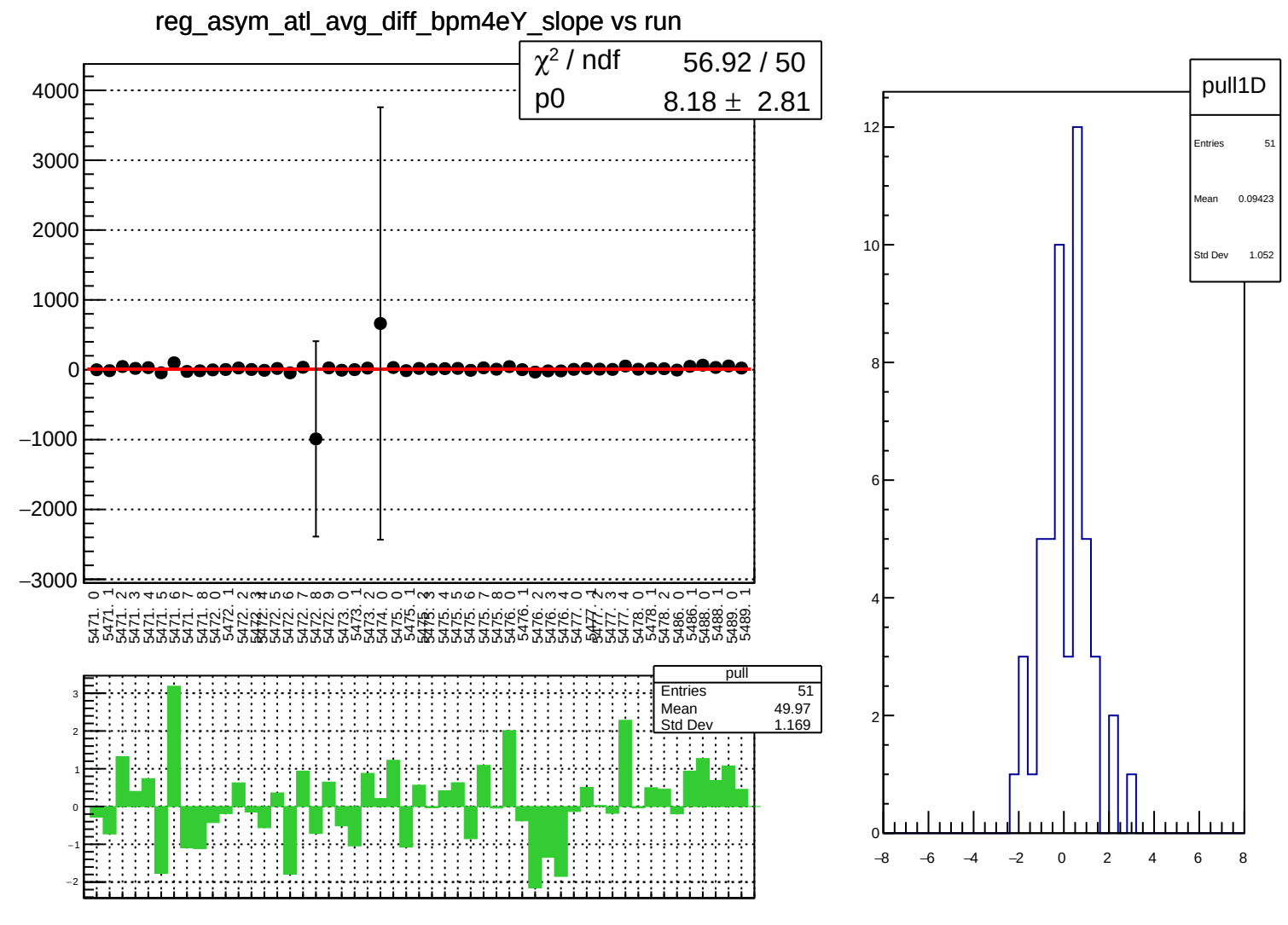

pull1D
Entries 51
Mean −0.02133
Std Dev 2.205

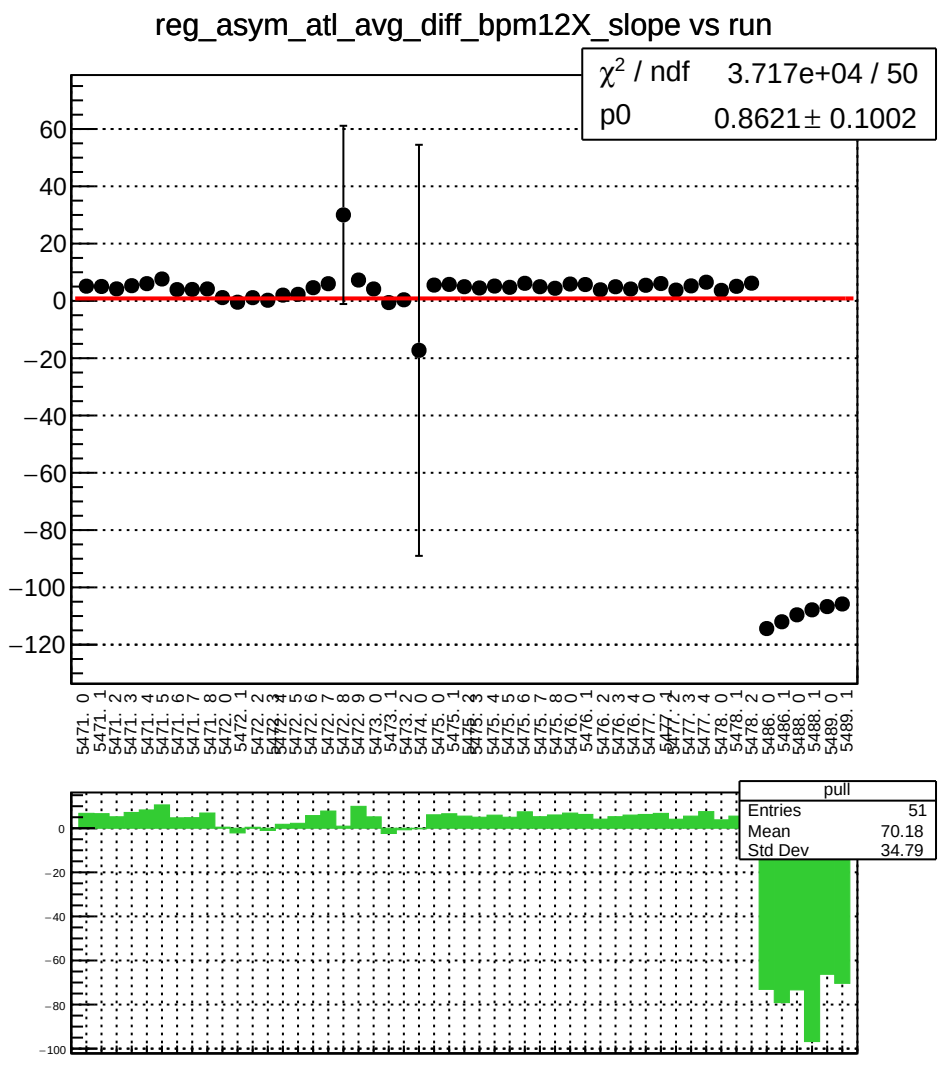

reg_asym_atl_avg_diff_bpm4aX_slope vs run
χ² / ndf 86.5 / 50
p0 0.3368 ± 4.101
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 52.36
Std Dev 18.45
3
2
1
0
−1
−2
−3
−4

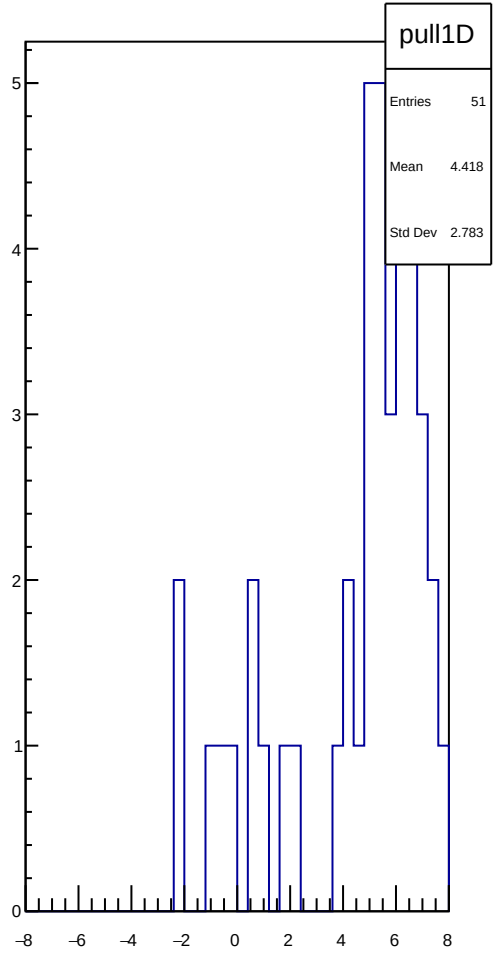

pull1D
Entries 51
Mean −0.1297
Std Dev 1.296
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

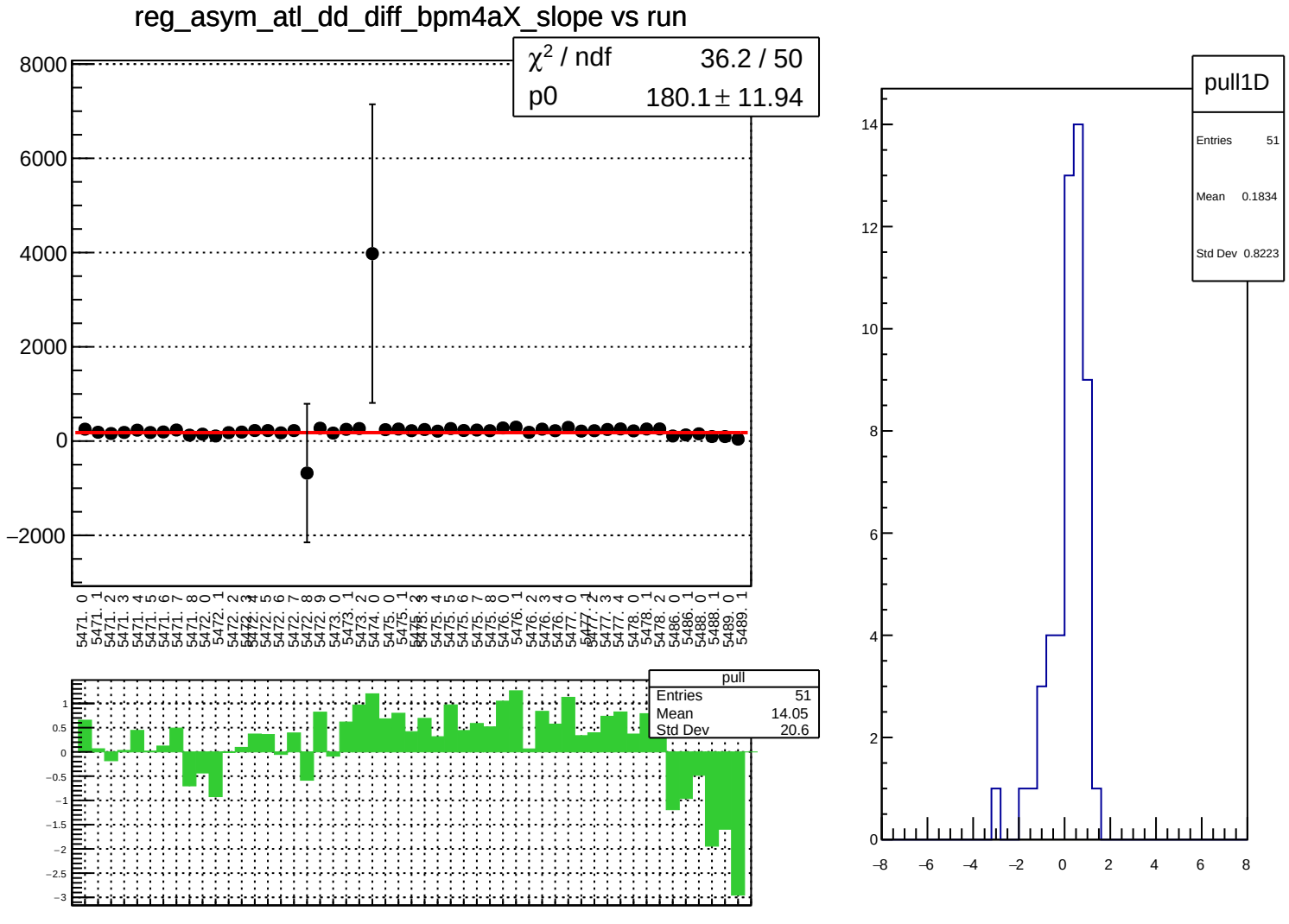

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.35 / 50
p0 −2.86 ± 2.236
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean 12.9
Std Dev 10.51
pull1D
Entries 51
Mean −0.03078
Std Dev 1.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

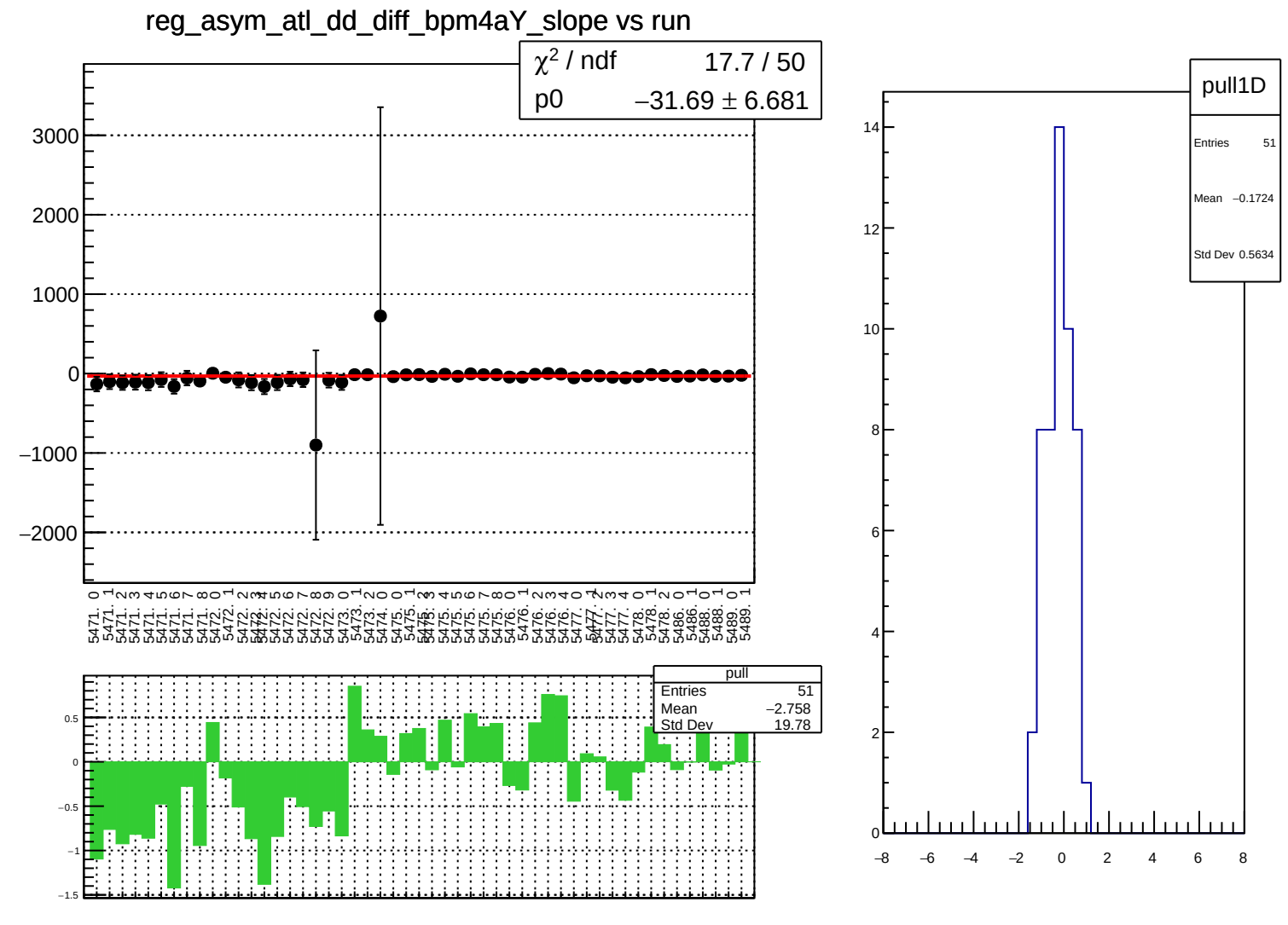

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 120.3 / 50
p0 −30.37 ± 3.971
6000
4000
2000
0
−2000
pull
Entries 51
Mean 58.54
Std Dev 10.51
pull1D
Entries 51
Mean 0.1864
Std Dev 1.524

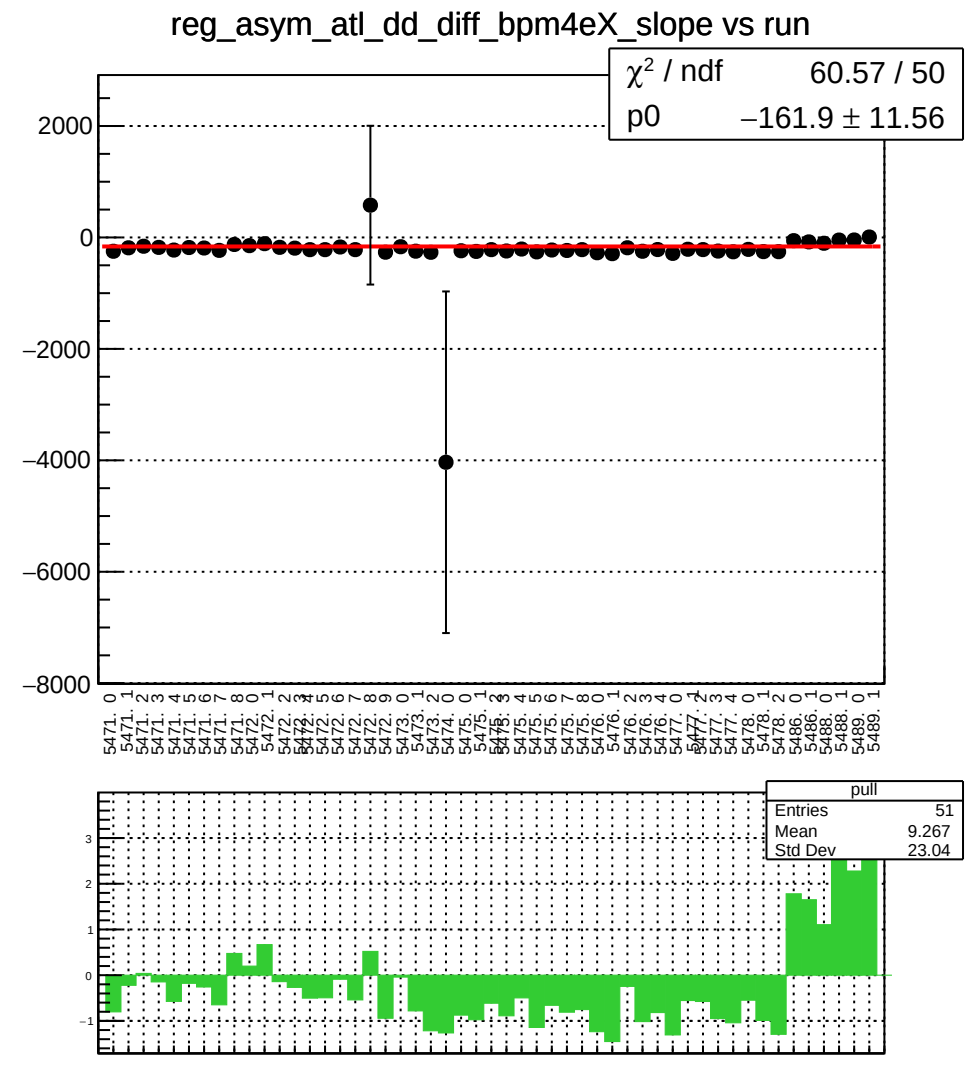

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 56.92 / 50
p0 8.18 ± 2.81
pull
Entries 51
Mean 49.97
Std Dev 1.169
pull1D
Entries 51
Mean 0.09423
Std Dev 1.052

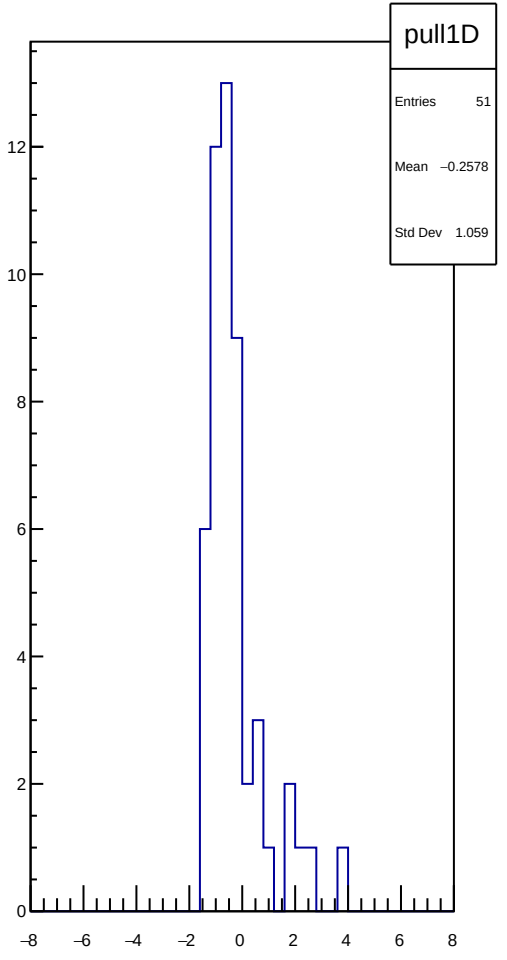

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 3.717e+04 / 50
p0 0.8621± 0.1002
pull
Entries 51
Mean 70.18
Std Dev 34.79

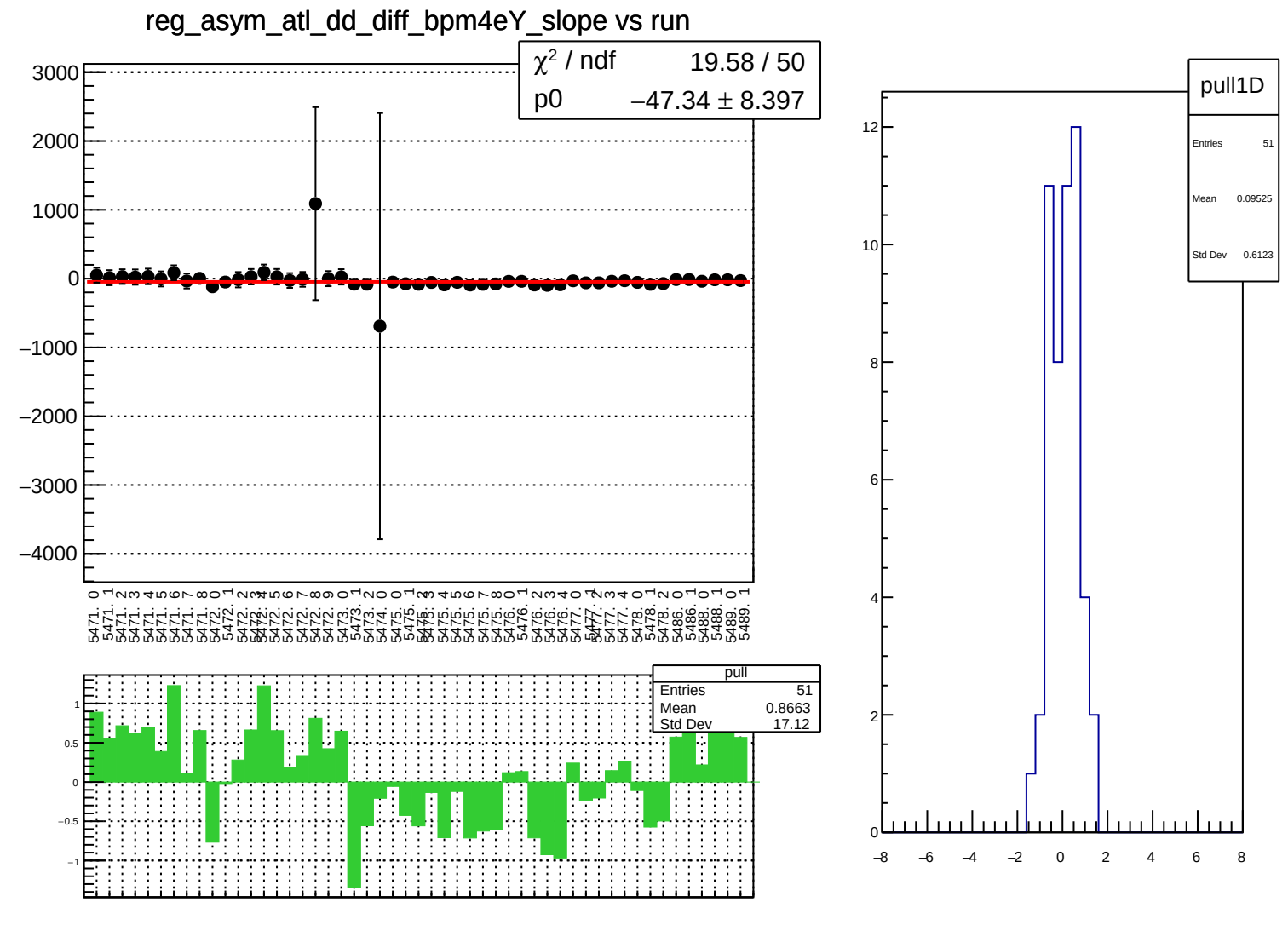

pull1D
Entries 51
Mean 4.418
Std Dev 2.783

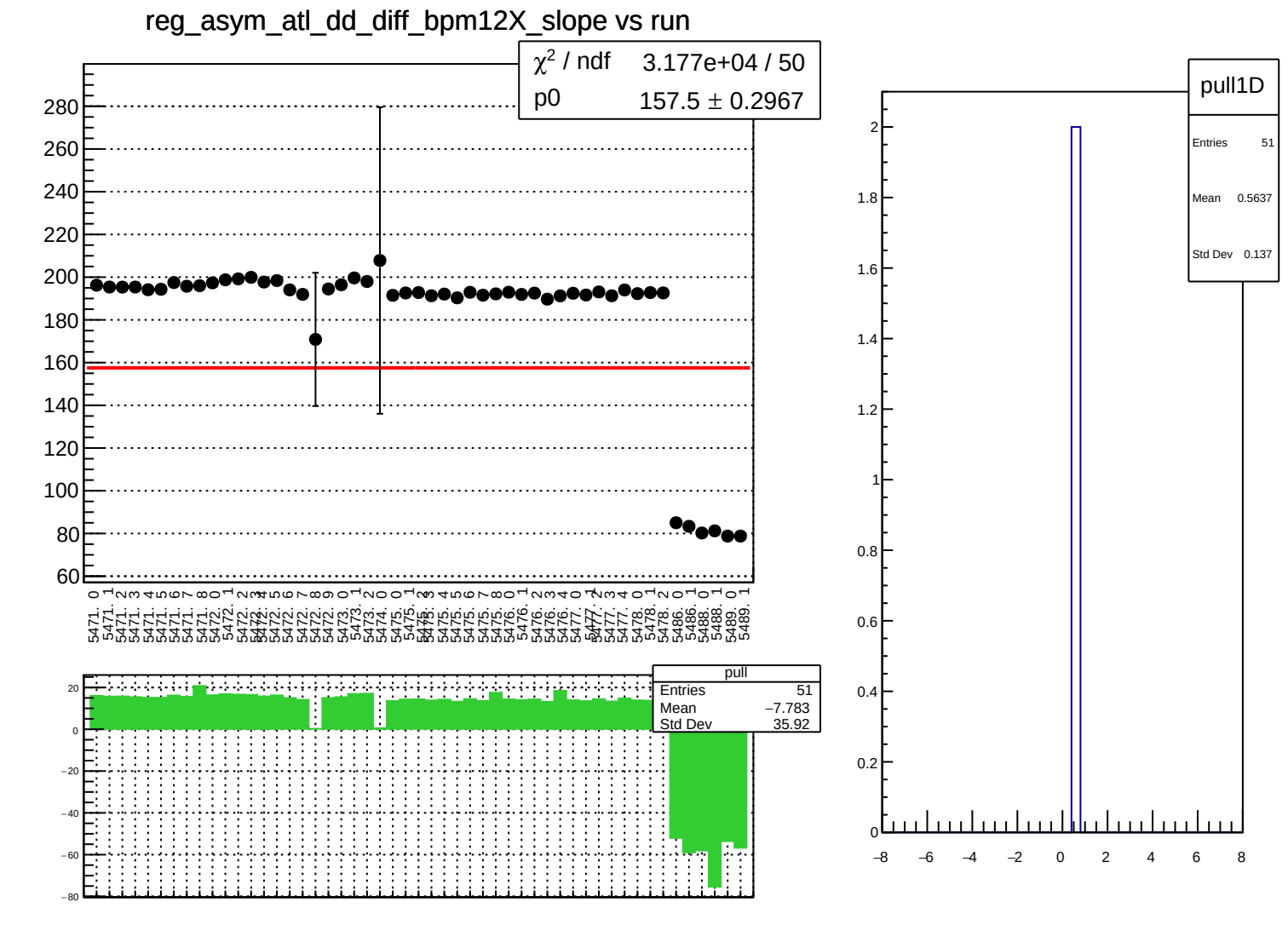

reg_asym_atl_dd_diff_bpm4aX_slope vs run
χ² / ndf 36.2 / 50
p0 180.1 ± 11.94
8000
6000
4000
2000
0
−2000
pull
Entries 51
Mean 14.05
Std Dev 20.6
pull1D
Entries 51
Mean 0.1834
Std Dev 0.8223

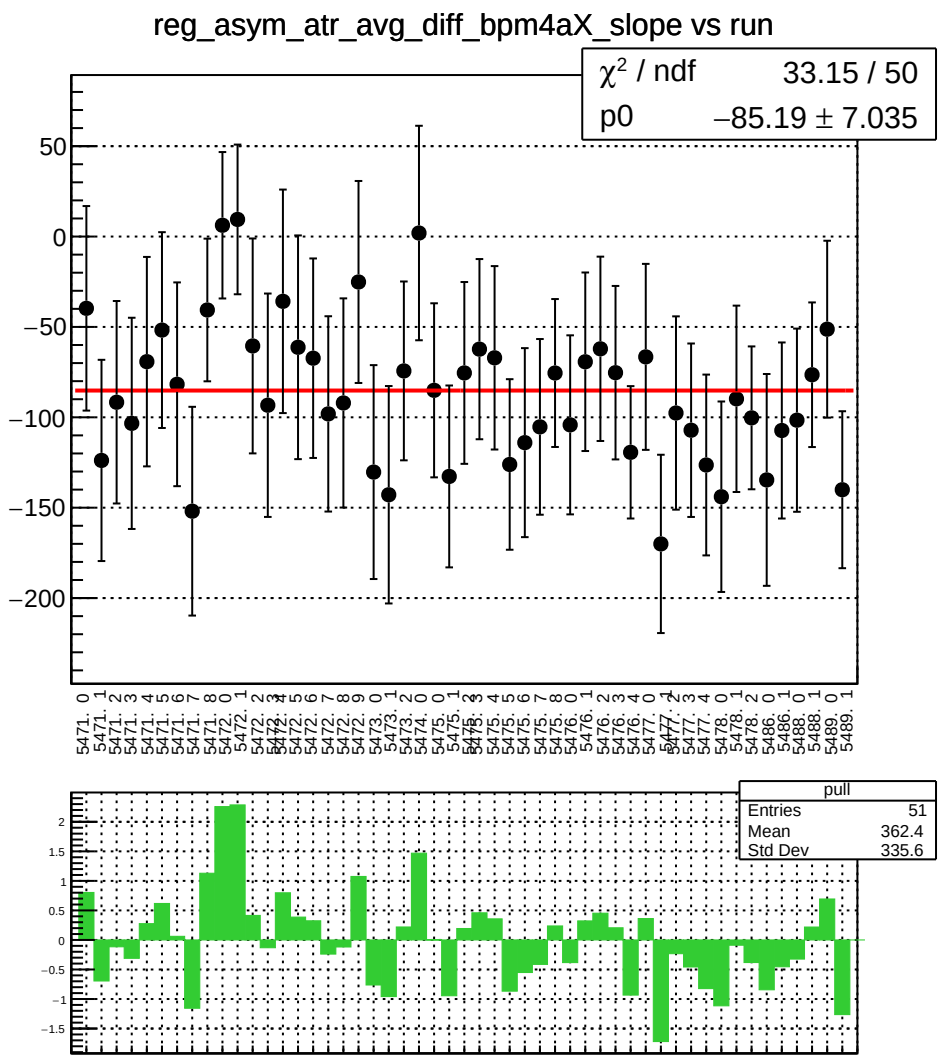

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.7 / 50
p0 −31.69 ± 6.681
3000
2000
1000
0
−1000
−2000
pull
Entries 51
Mean −2.758
Std Dev 19.78
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.1724
Std Dev 0.5634
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

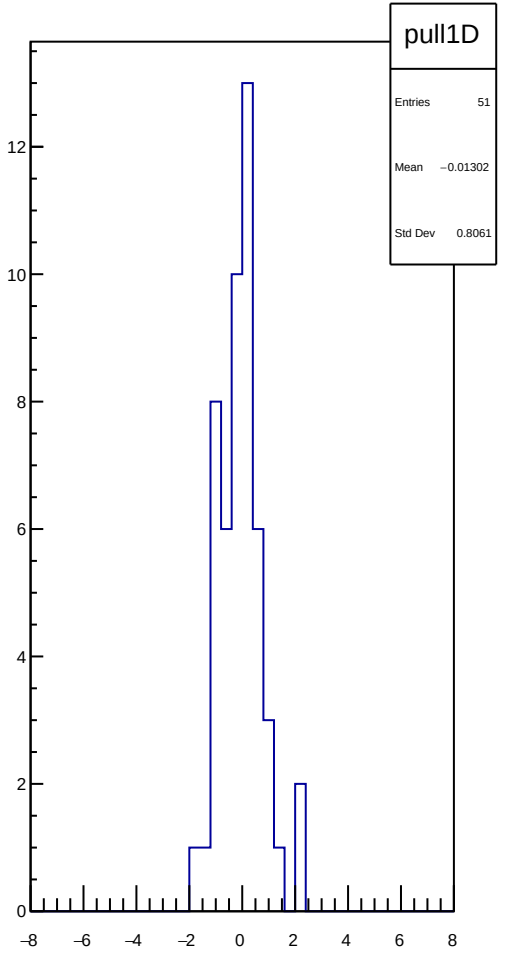

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.57 / 50
p0 −161.9 ± 11.56
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean 9.267
Std Dev 23.04
3
2
1
0
−1

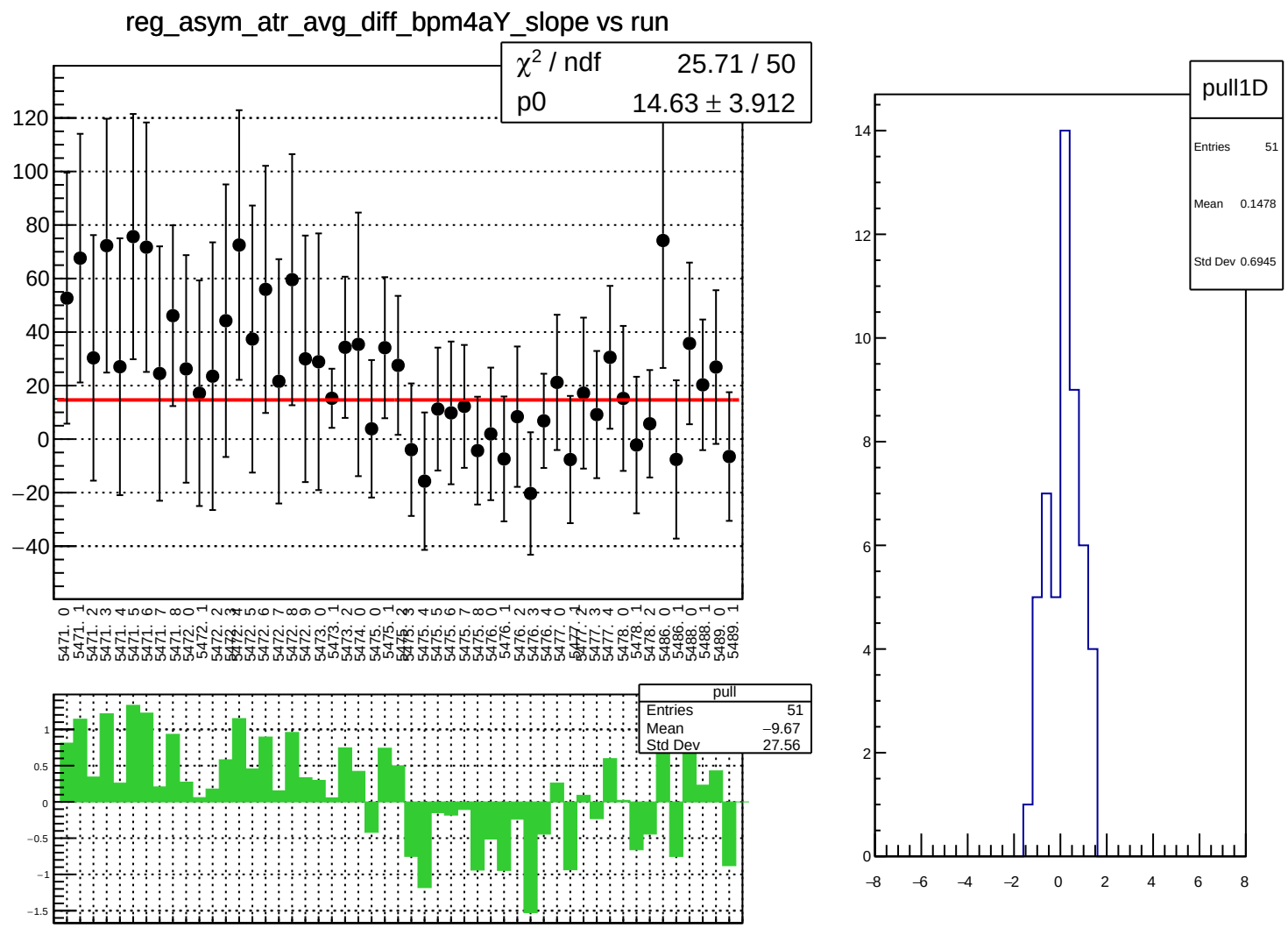

pull1D
Entries 51
Mean −0.2578
Std Dev 1.059
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

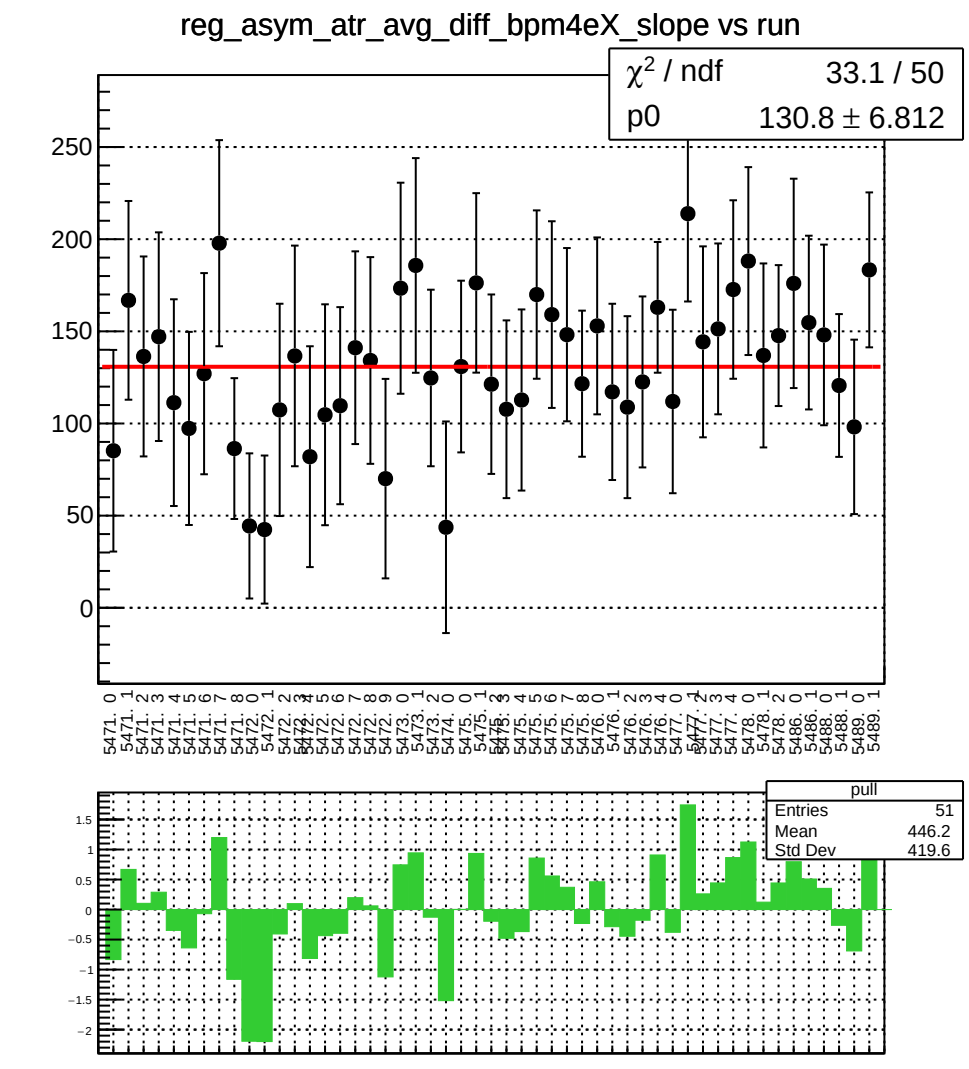

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.58 / 50
p0 −47.34 ± 8.397
pull
Entries 51
Mean 0.8663
Std Dev 17.12
pull1D
Entries 51
Mean 0.09525
Std Dev 0.6123

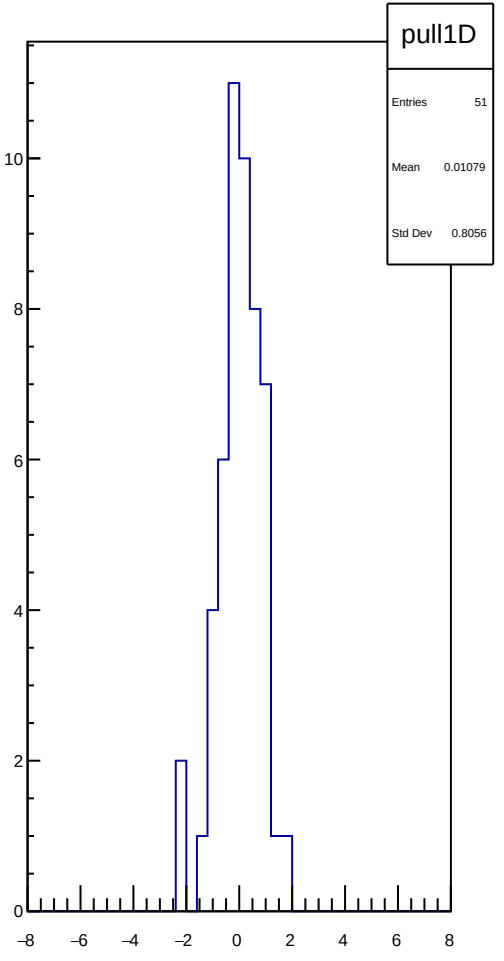

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 3.177e+04 / 50
p0 157.5 ± 0.2967
pull
Entries 51
Mean −7.783
Std Dev 35.92
pull1D
Entries 51
Mean 0.5637
Std Dev 0.137

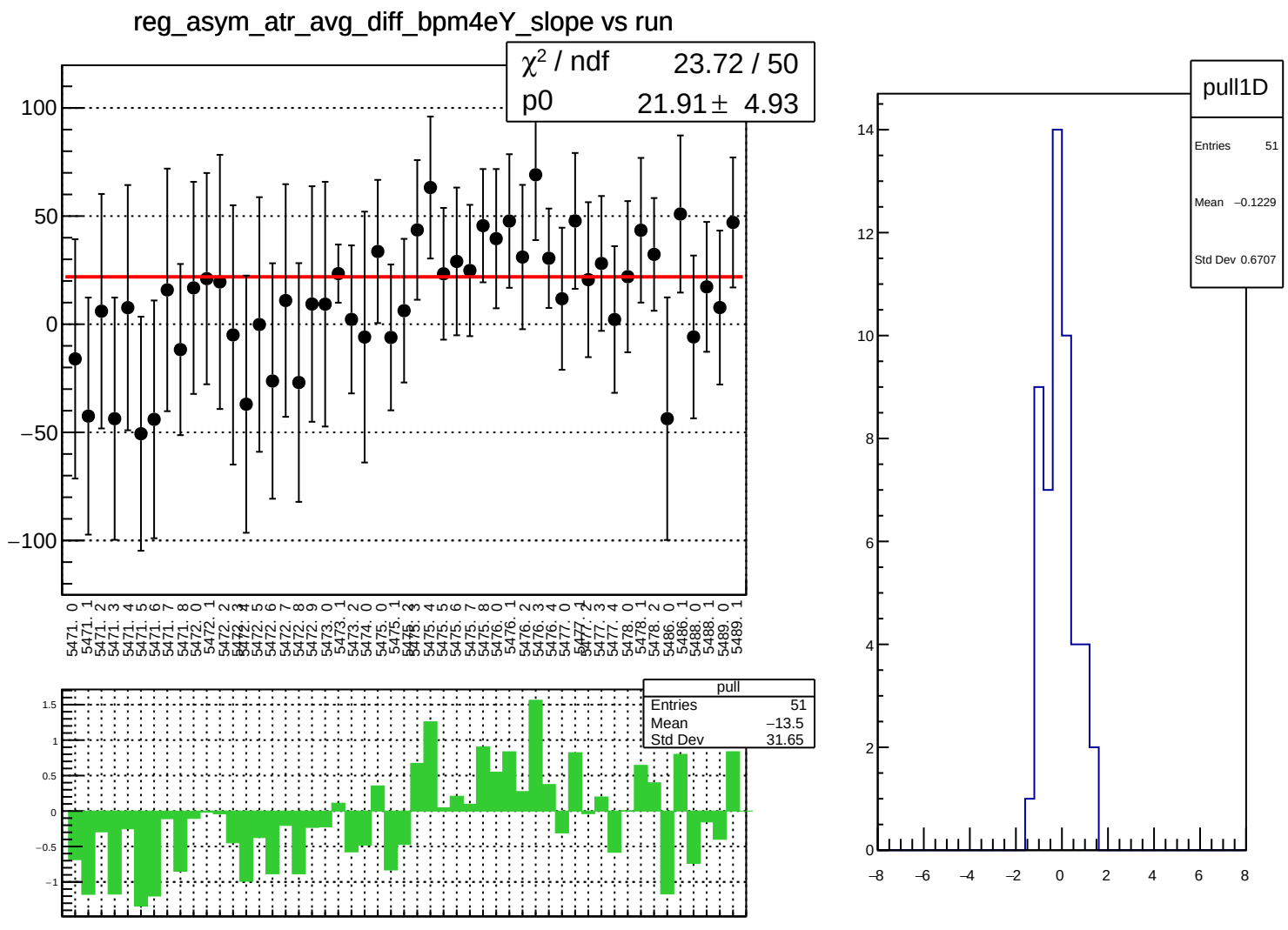

reg_asym_atr_avg_diff_bpm4aX_slope vs run
χ² / ndf 33.15 / 50
p0 −85.19 ± 7.035
pull
Entries 51
Mean 362.4
Std Dev 335.6

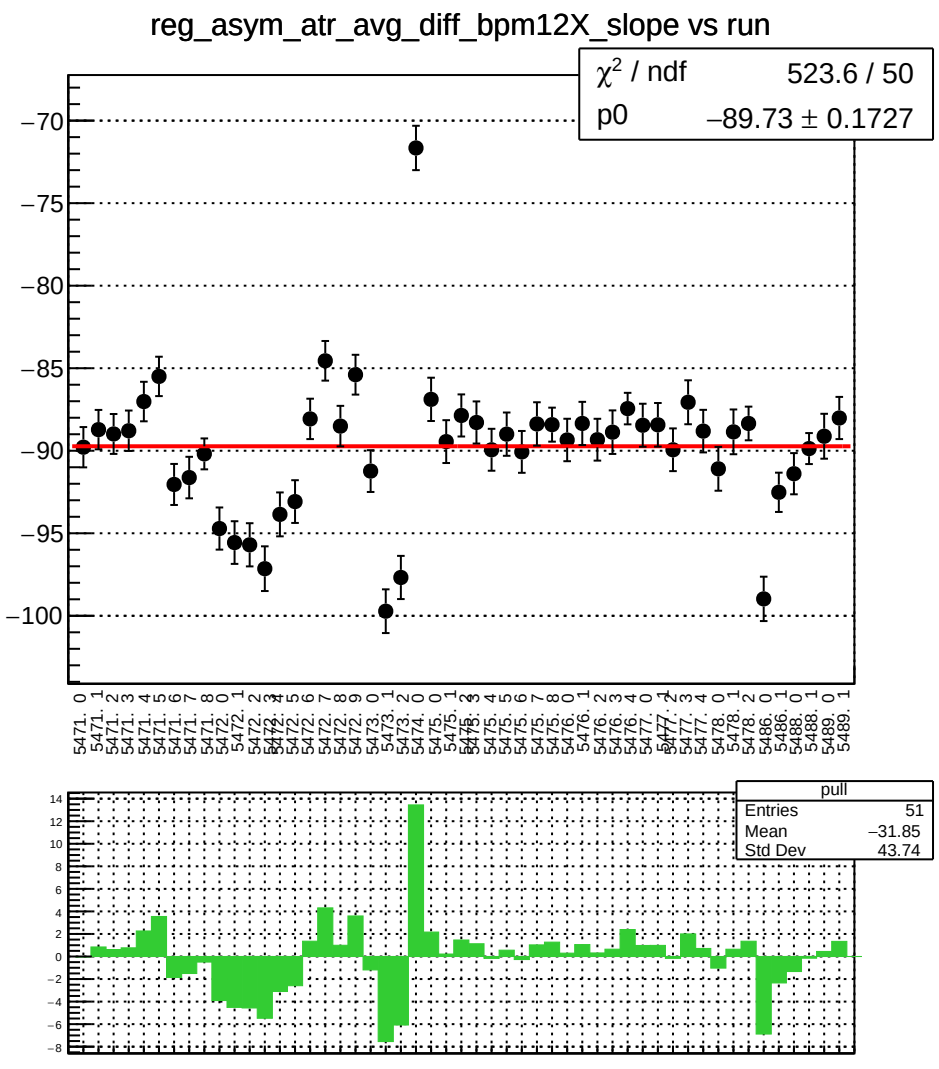

pull1D
Entries 51
Mean −0.01302
Std Dev 0.8061

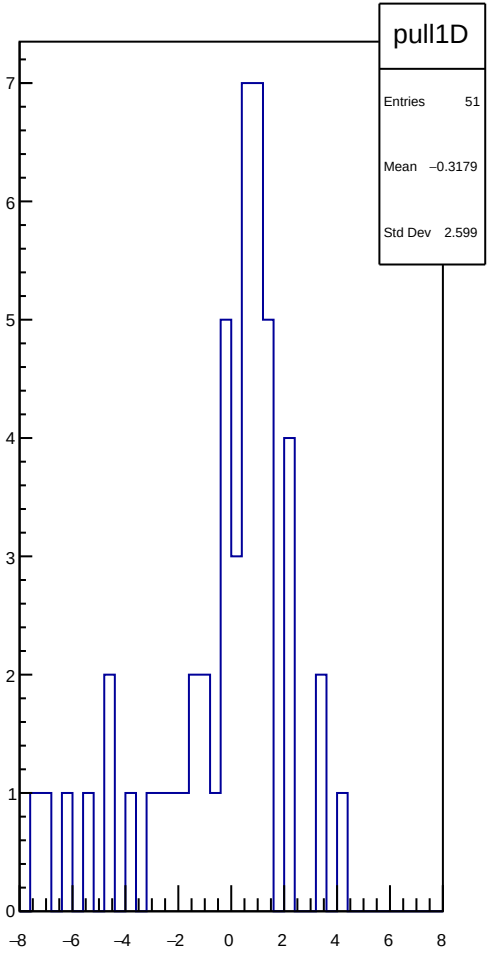

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.71 / 50
p0 14.63 ± 3.912
pull
Entries 51
Mean −9.67
Std Dev 27.56
pull1D
Entries 51
Mean 0.1478
Std Dev 0.6945

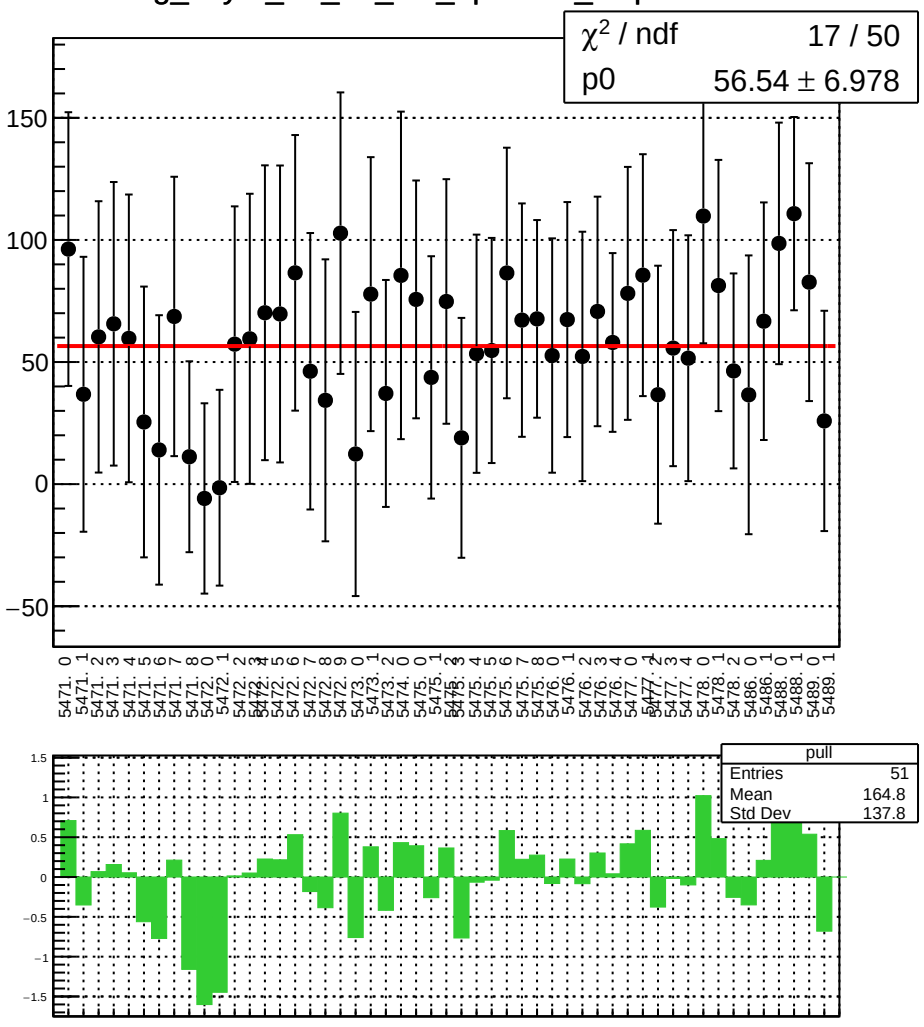

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.1 / 50
p0 130.8 ± 6.812
pull
Entries 51
Mean 446.2
Std Dev 419.6

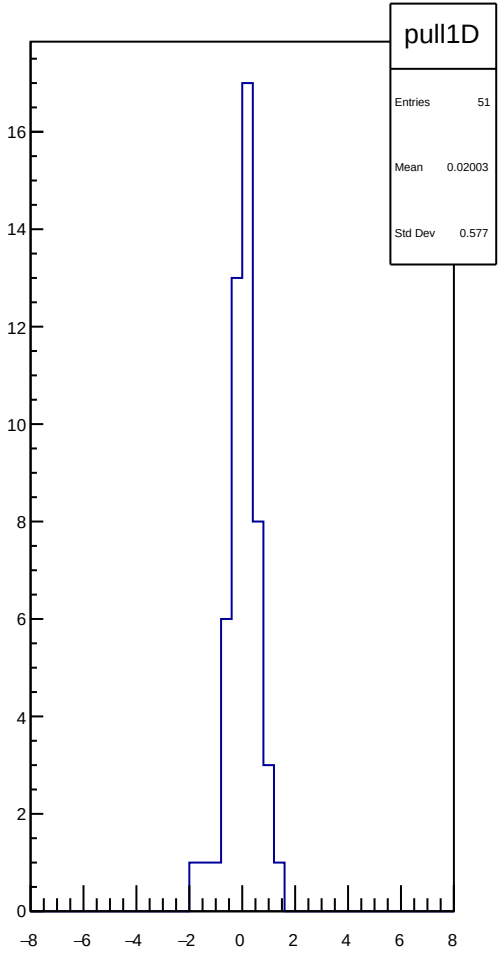

pull1D
Entries 51
Mean 0.01079
Std Dev 0.8056

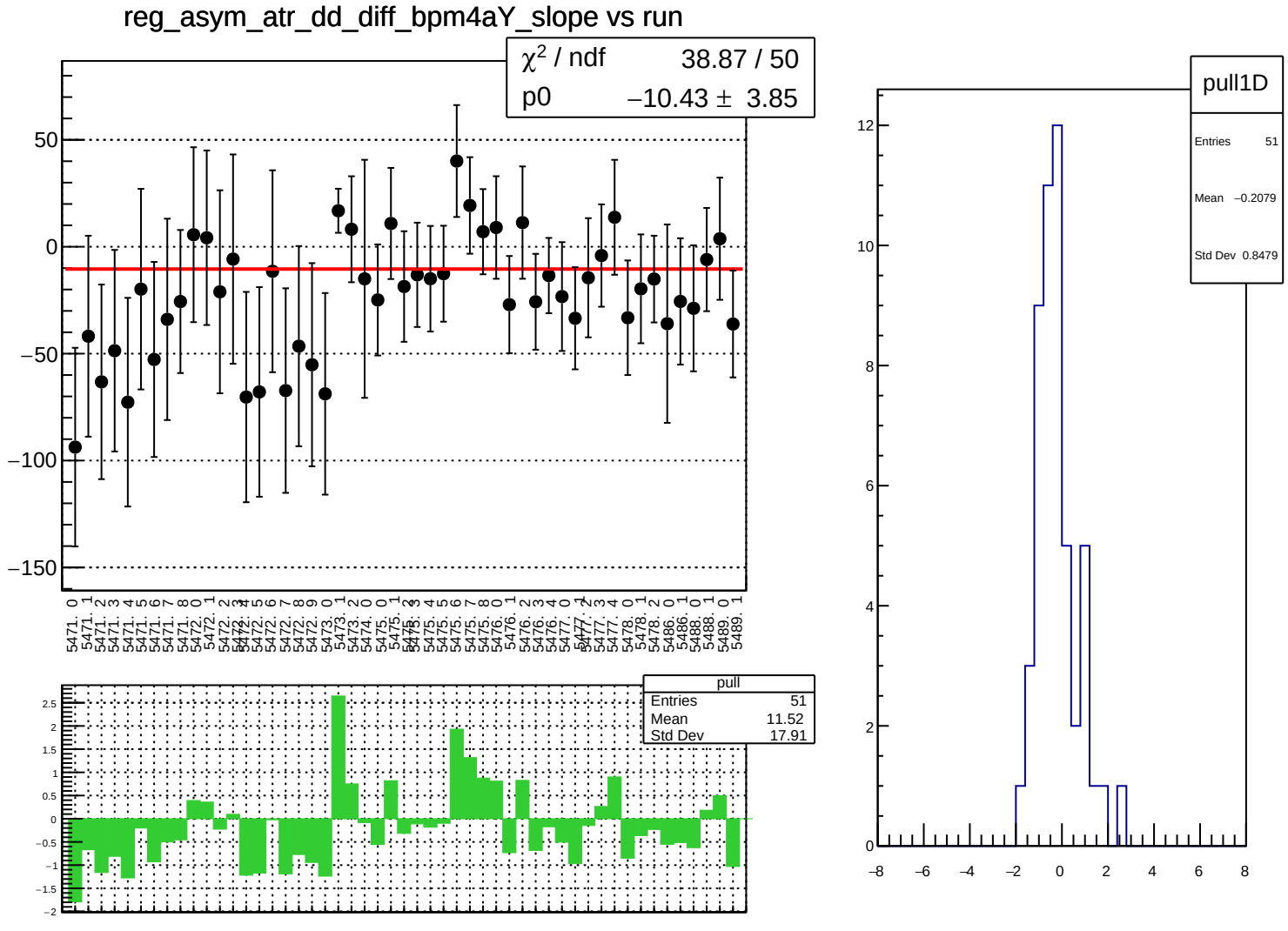

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.72 / 50
p0 21.91 ± 4.93
pull
Entries 51
Mean −13.5
Std Dev 31.65
pull1D
Entries 51
Mean −0.1229
Std Dev 0.6707

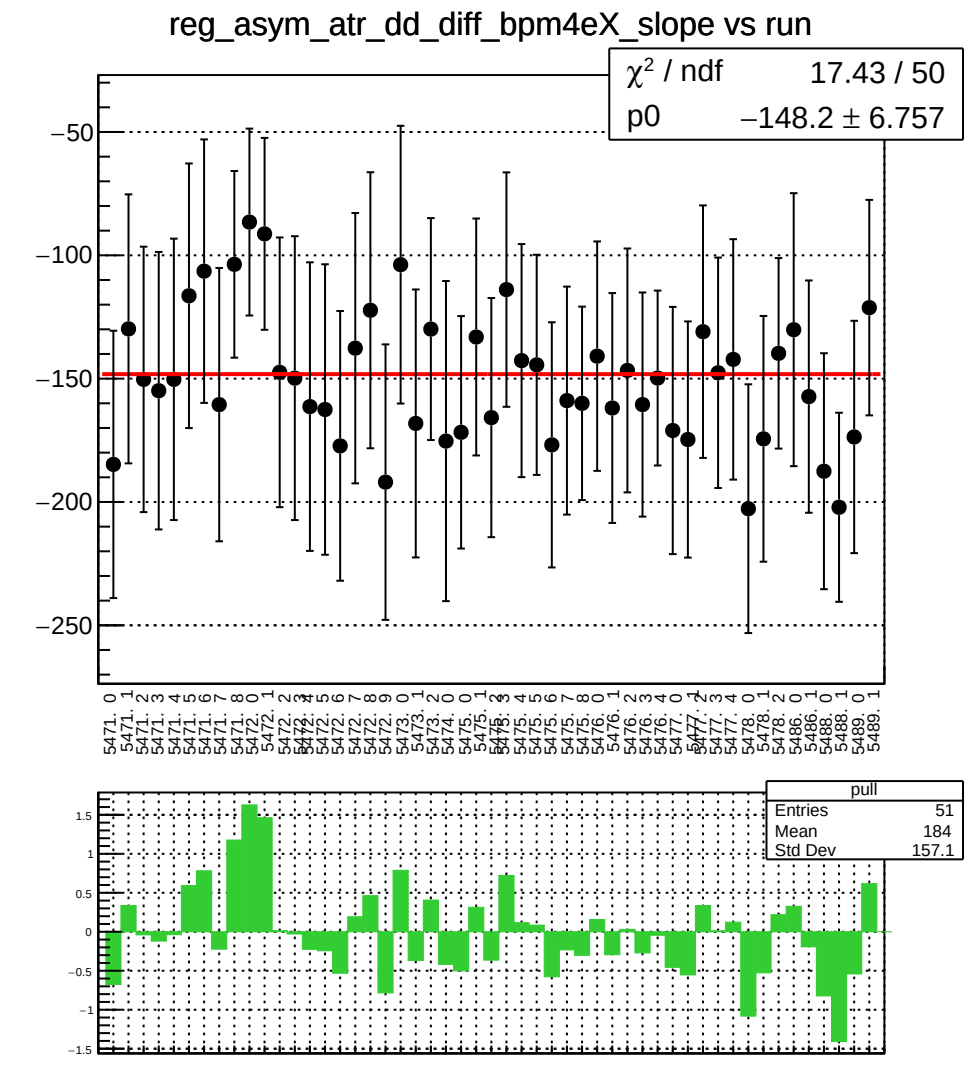

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 523.6 / 50
p0 −89.73 ± 0.1727
pull
Entries 51
Mean −31.85
Std Dev 43.74

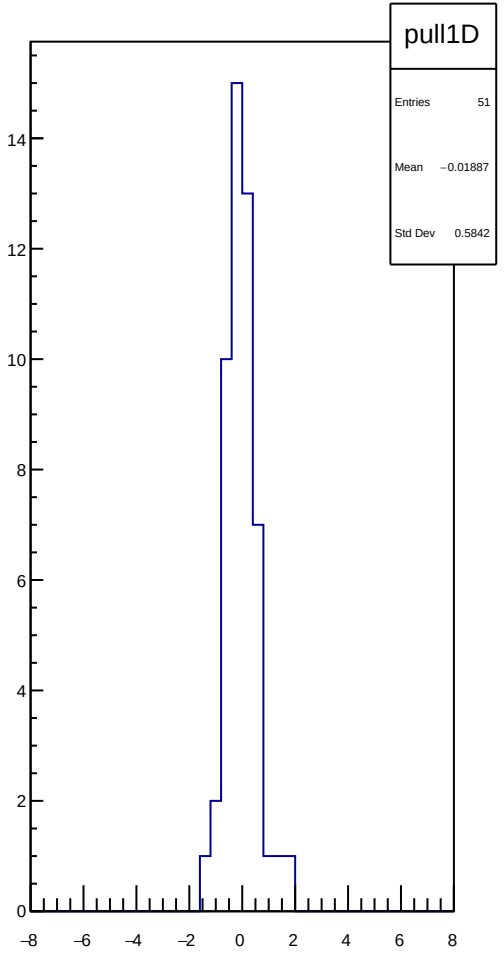

pull1D
Entries 51
Mean −0.3179
Std Dev 2.599

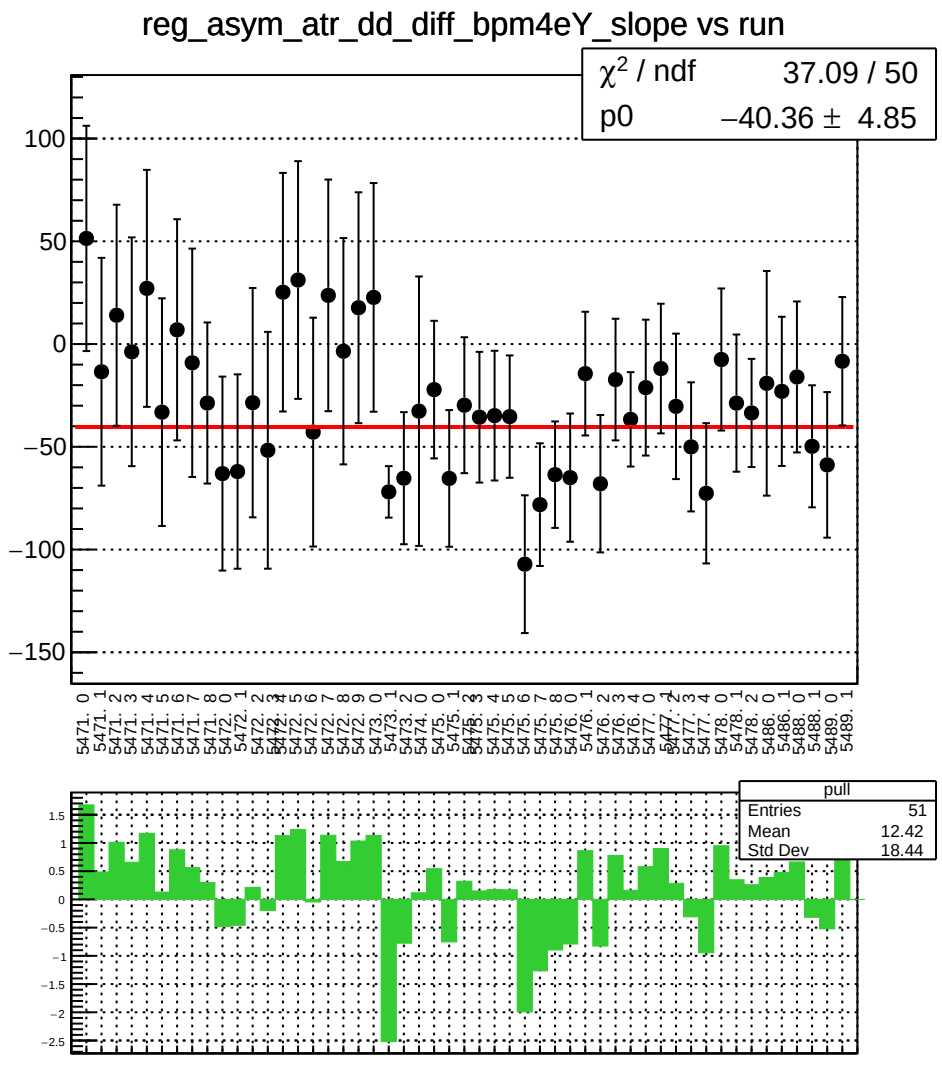

reg_asym_atr_dd_diff_bpm4aX_slope vs run
χ² / ndf 17 / 50
p0 56.54 ± 6.978
150
100
50
0
−50
pull
Entries 51
Mean 164.8
Std Dev 137.8
1.5
1
0.5
0
−0.5
−1
−1.5

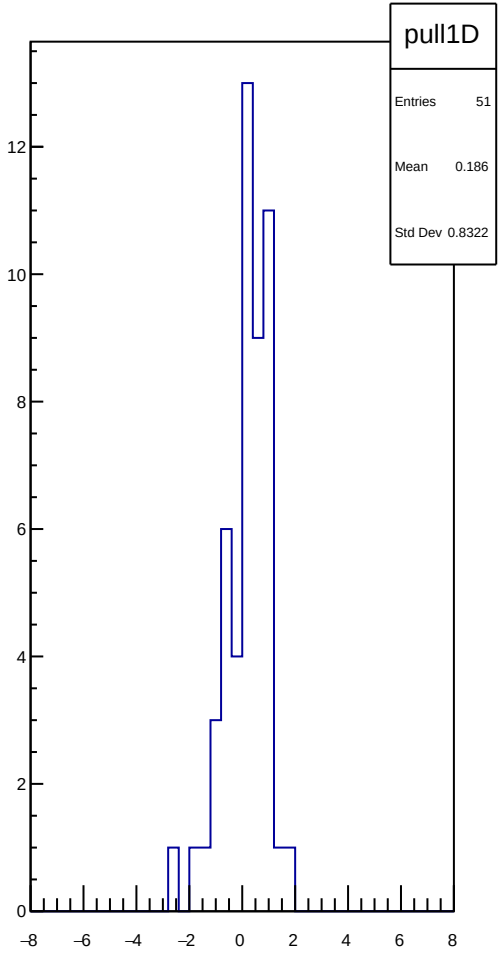

pull1D
Entries 51
Mean 0.02003
Std Dev 0.577
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

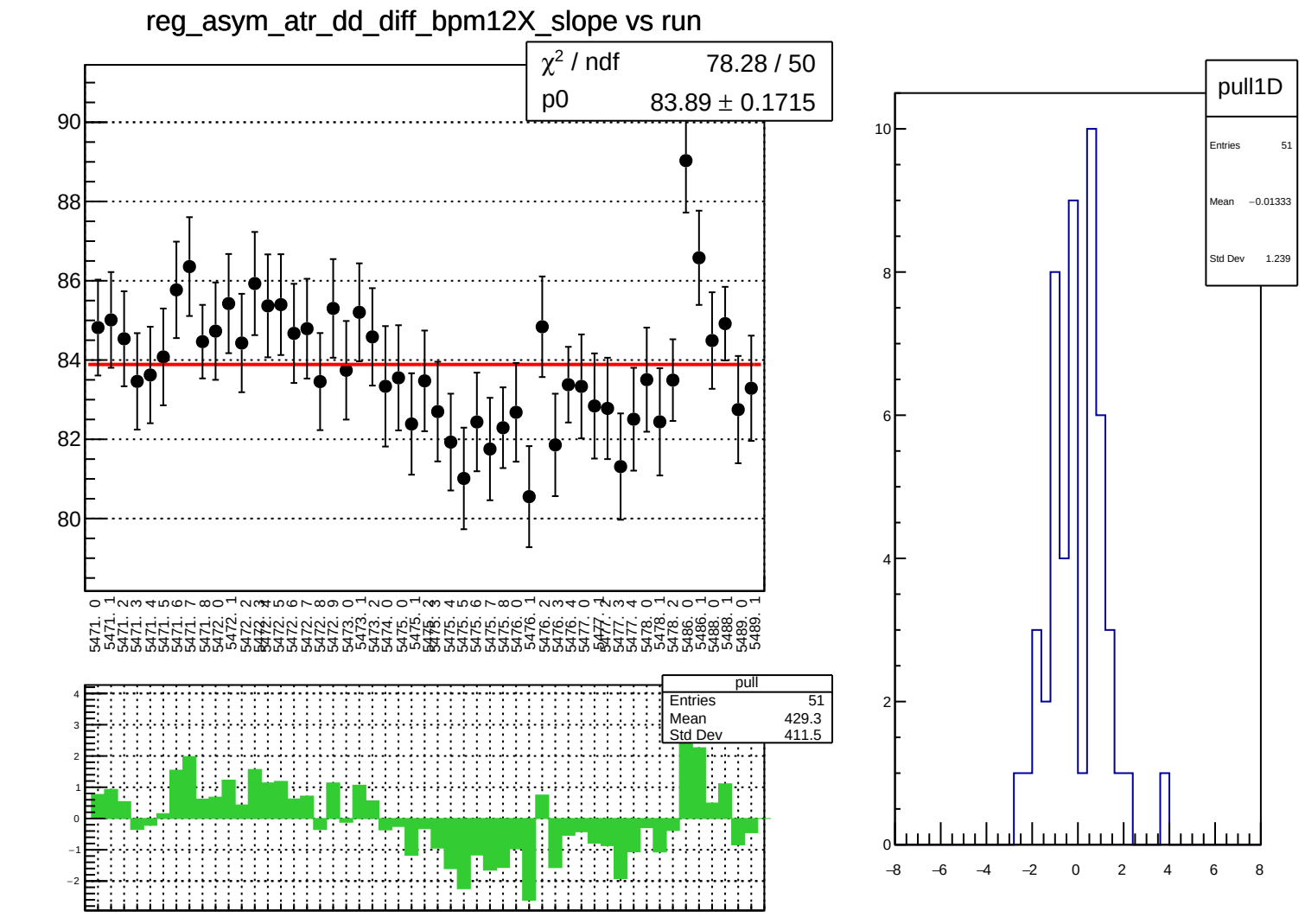

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 38.87 / 50
p0 −10.43 ± 3.85
pull
Entries 51
Mean 11.52
Std Dev 17.91
pull1D
Entries 51
Mean −0.2079
Std Dev 0.8479

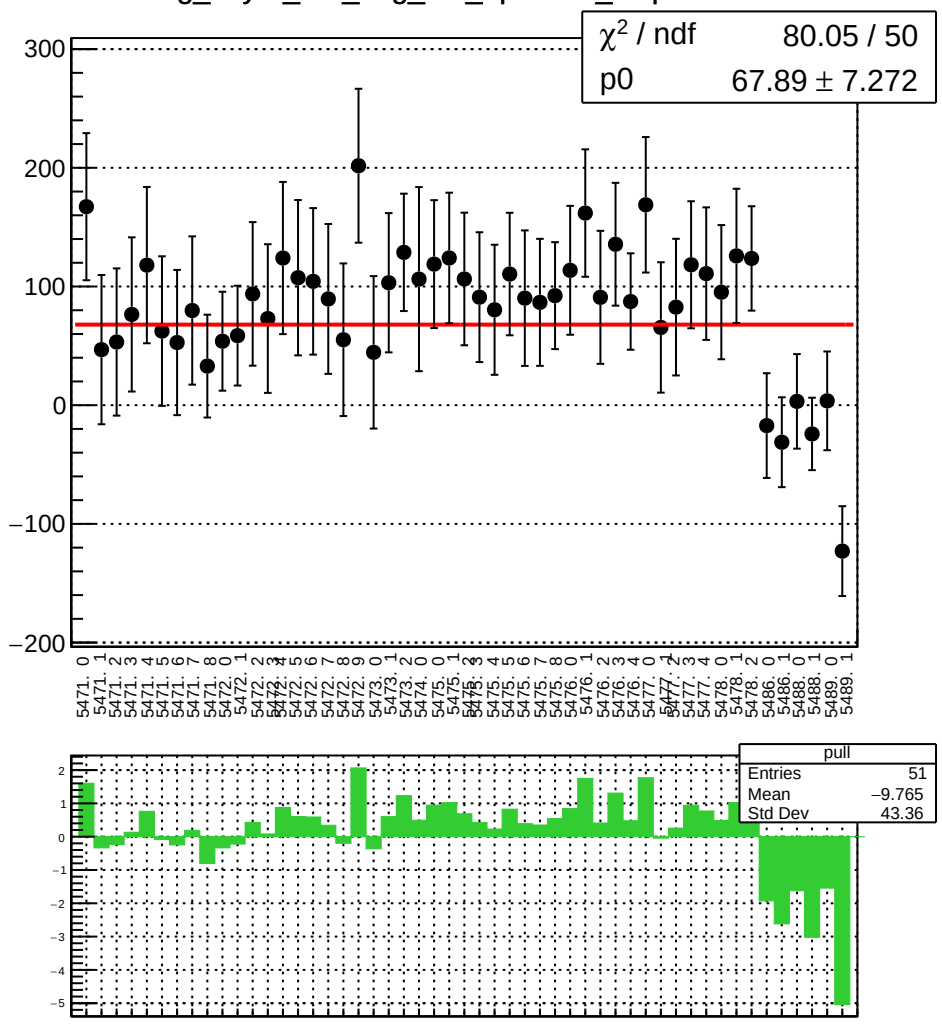

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.43 / 50
p0 −148.2 ± 6.757
pull
Entries 51
Mean 184
Std Dev 157.1

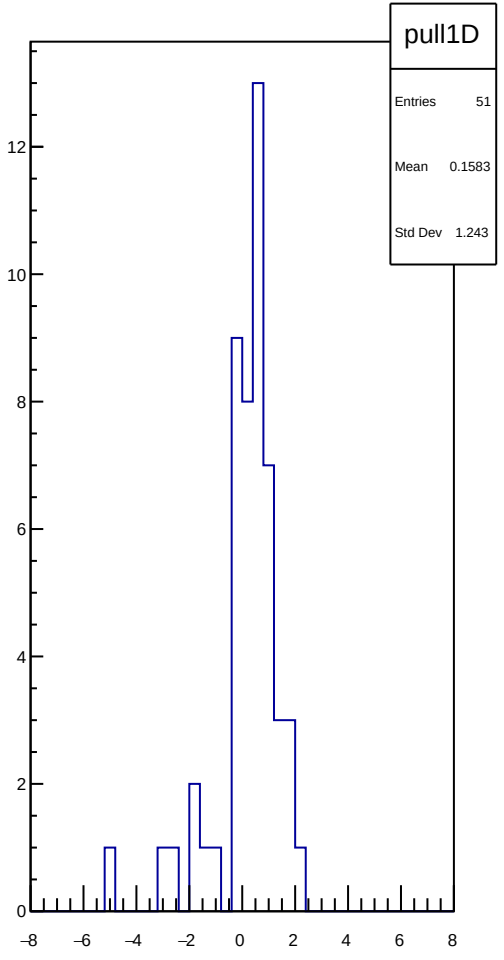

pull1D
Entries 51
Mean −0.01887
Std Dev 0.5842

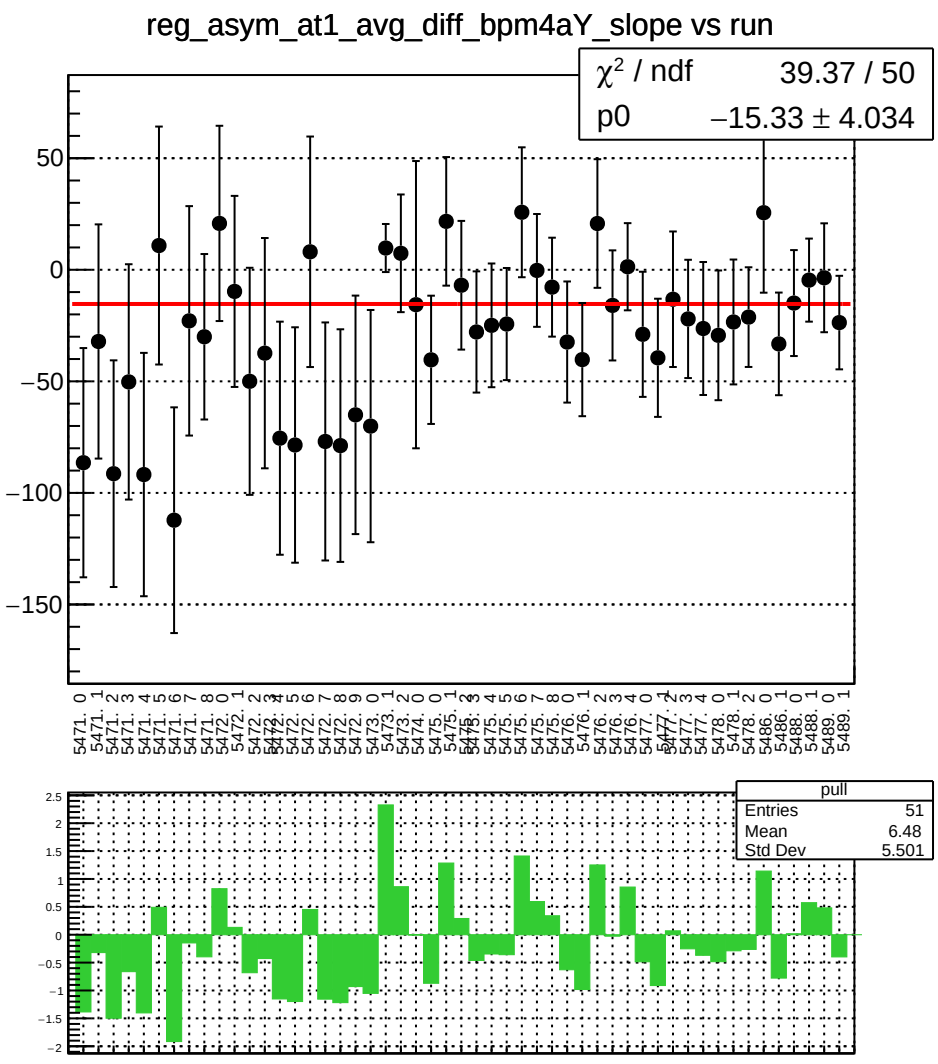

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.09 / 50
p0 −40.36 ± 4.85
pull
Entries 51
Mean 12.42
Std Dev 18.44

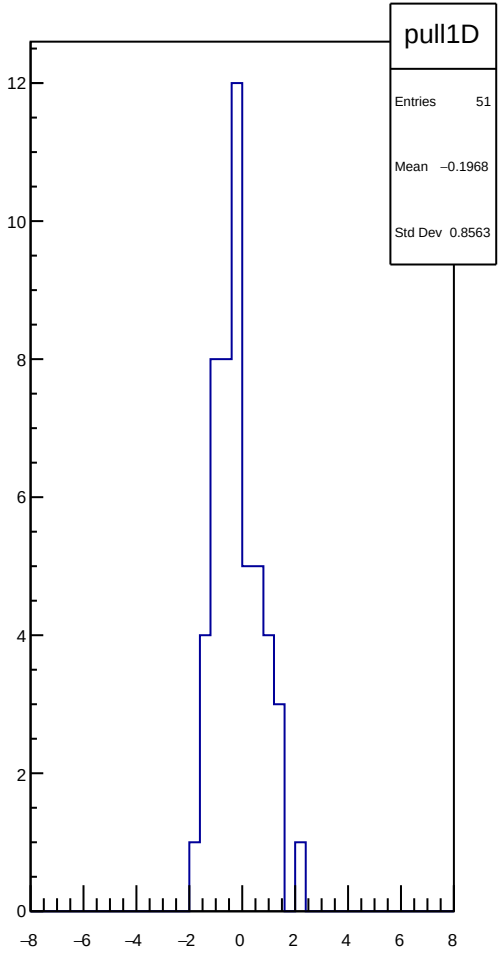

pull1D
Entries 51
Mean 0.186
Std Dev 0.8322

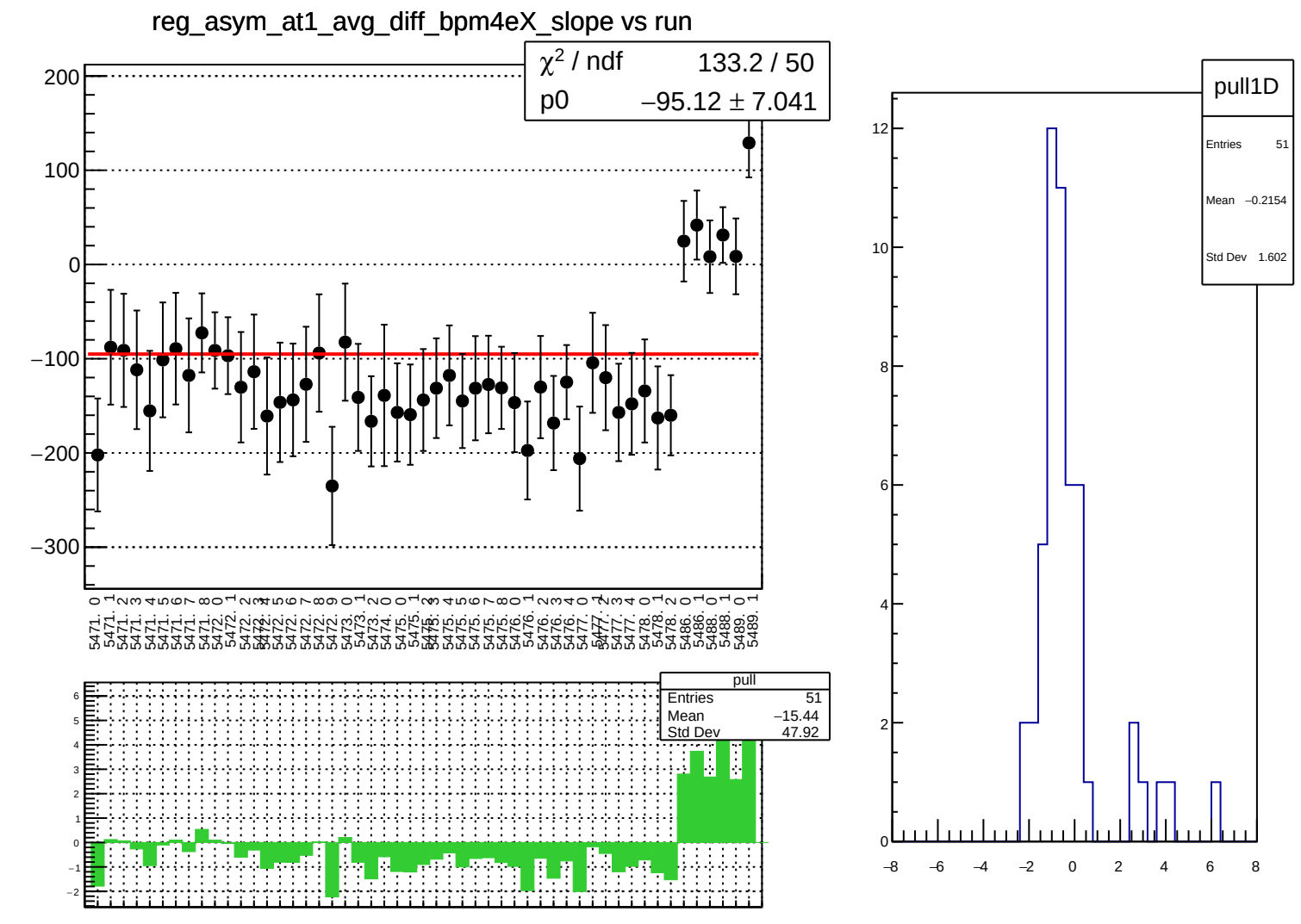

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 78.28 / 50
p0 83.89 ± 0.1715
pull
Entries 51
Mean 429.3
Std Dev 411.5
pull1D
Entries 51
Mean −0.01333
Std Dev 1.239

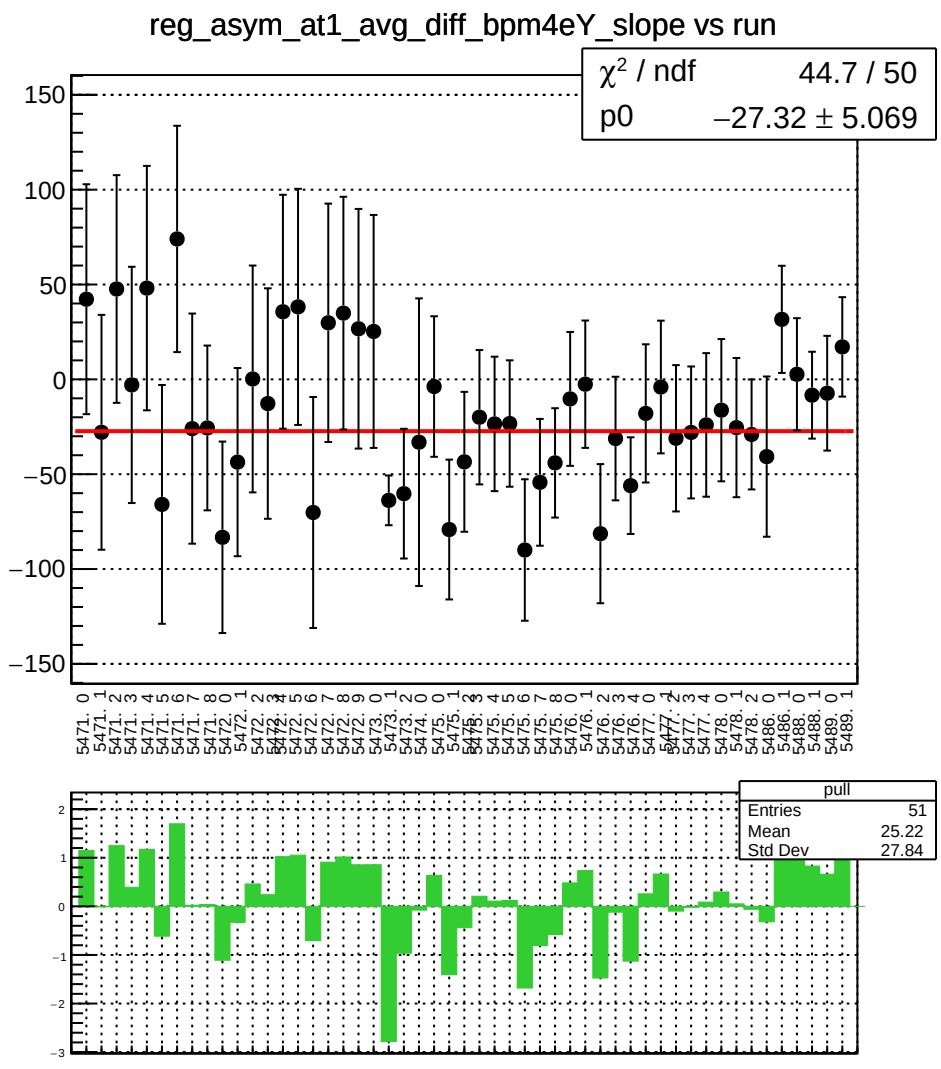

reg_asym_at1_avg_diff_bpm4aX_slope vs run
χ² / ndf 80.05 / 50
p0 67.89 ± 7.272
pull
Entries 51
Mean −9.765
Std Dev 43.36

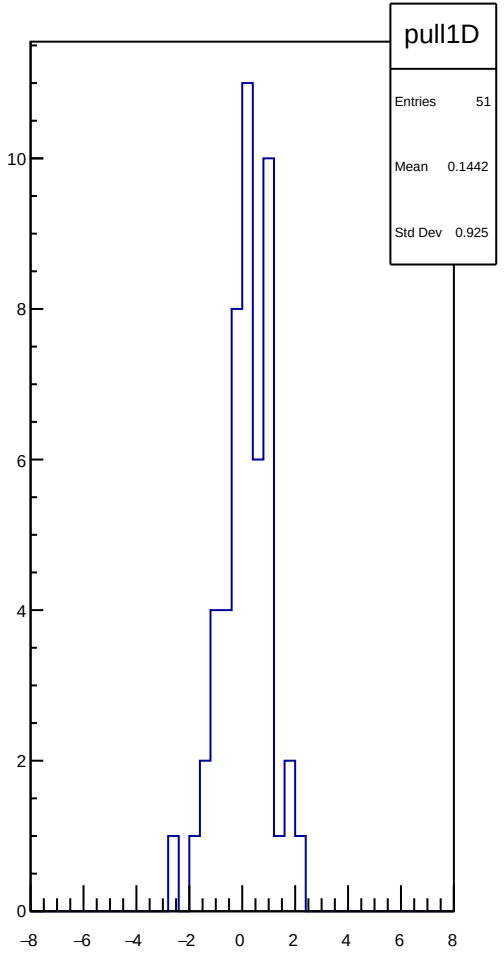

pull1D
Entries 51
Mean 0.1583
Std Dev 1.243

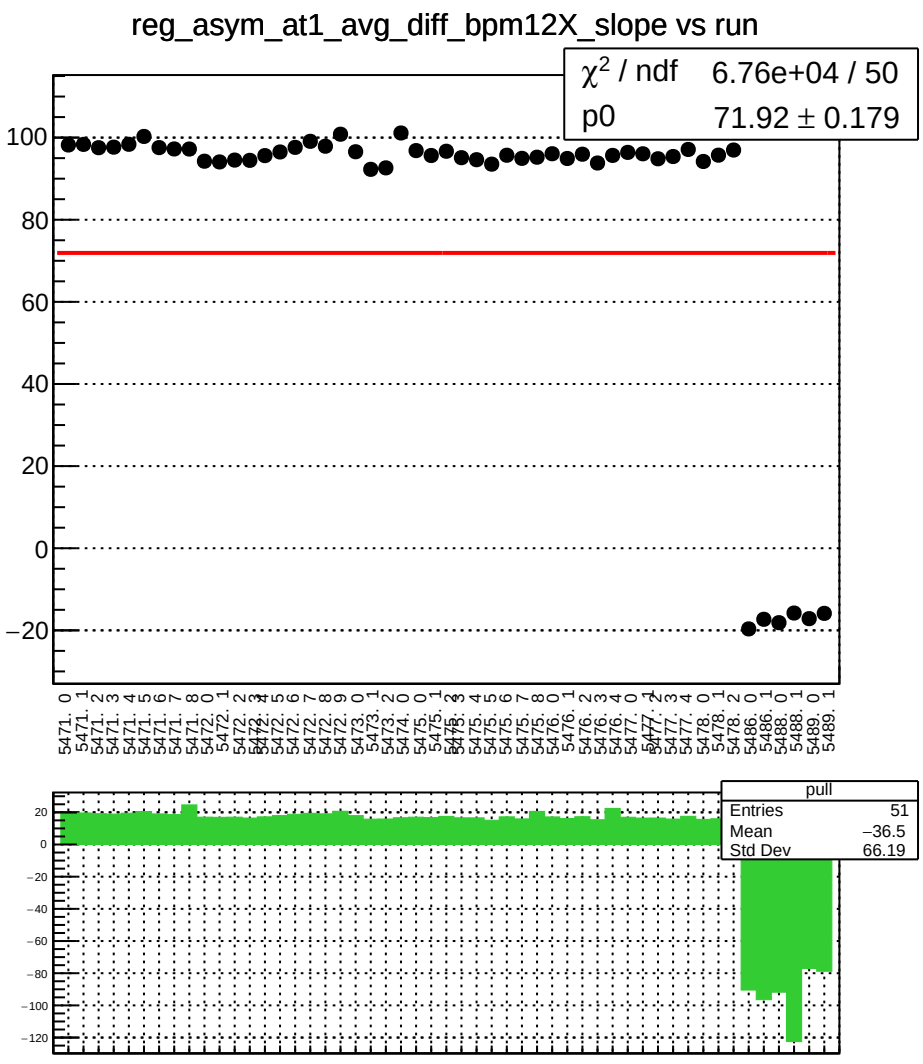

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 39.37 / 50
p0 −15.33 ± 4.034
pull
Entries 51
Mean 6.48
Std Dev 5.501

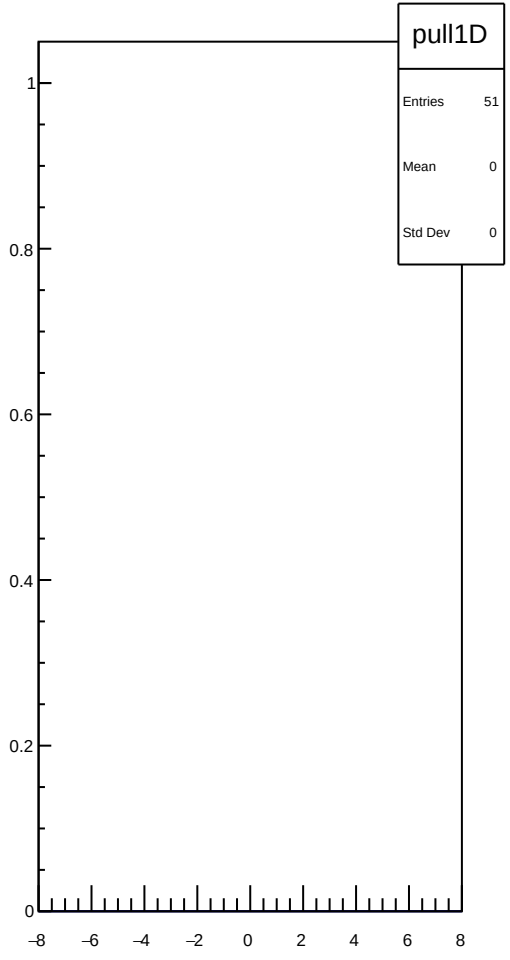

pull1D
Entries 51
Mean −0.1968
Std Dev 0.8563

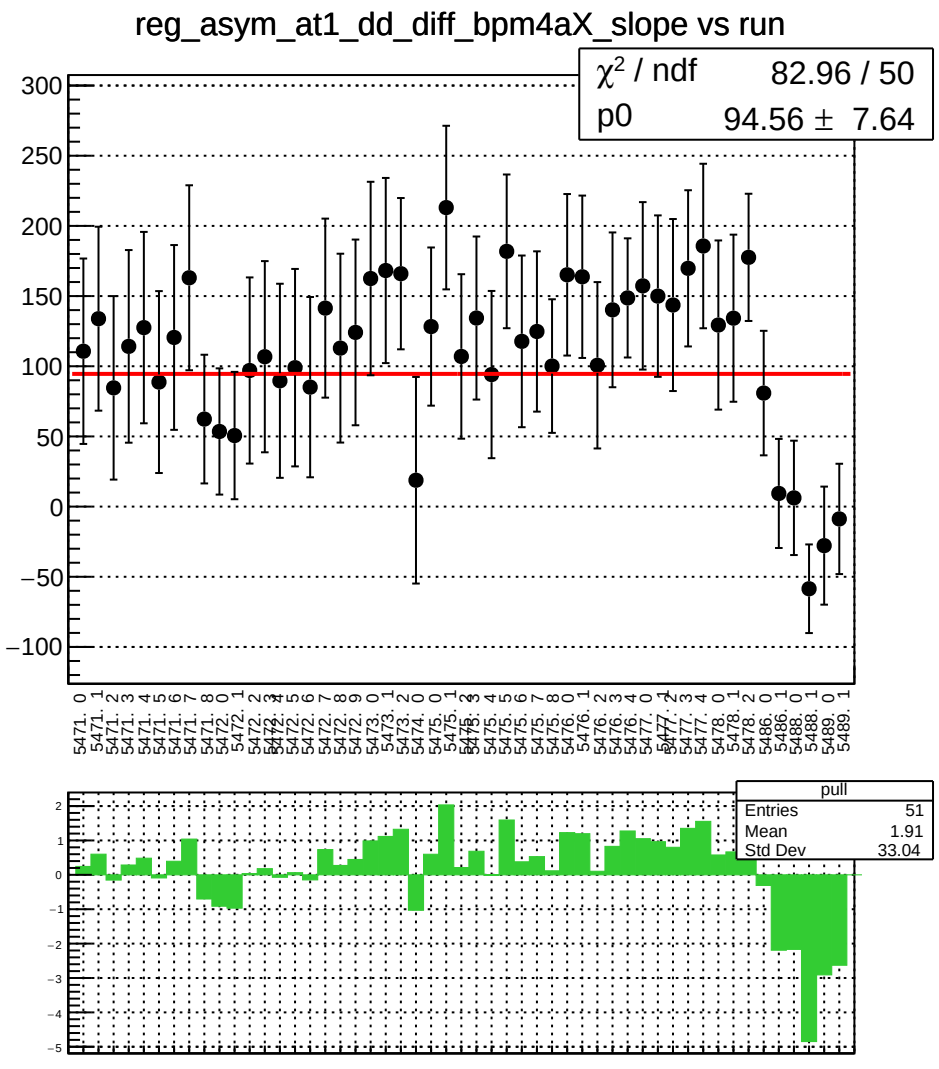

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 133.2 / 50
p0 −95.12 ± 7.041
pull
Entries 51
Mean −15.44
Std Dev 47.92
pull1D
Entries 51
Mean −0.2154
Std Dev 1.602

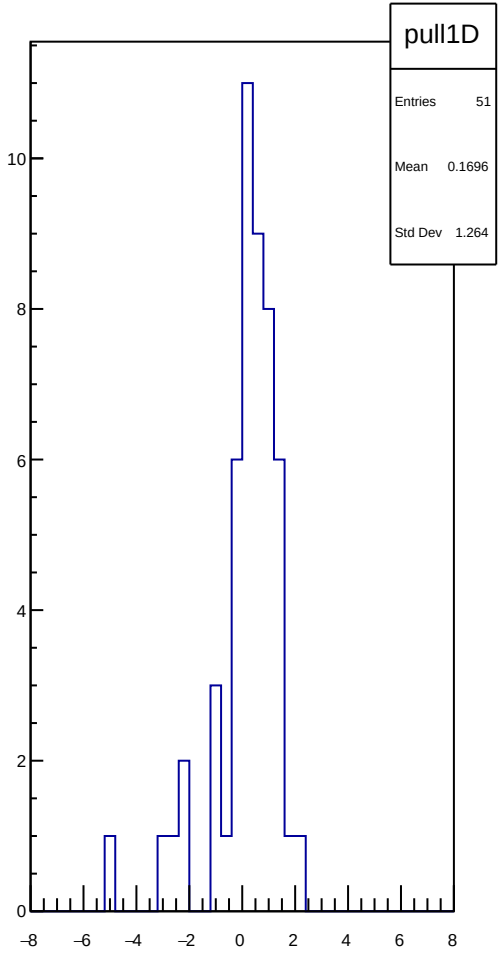

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.7 / 50
p0 −27.32 ± 5.069
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 25.22
Std Dev 27.84
2
1
0
−1
−2
−3

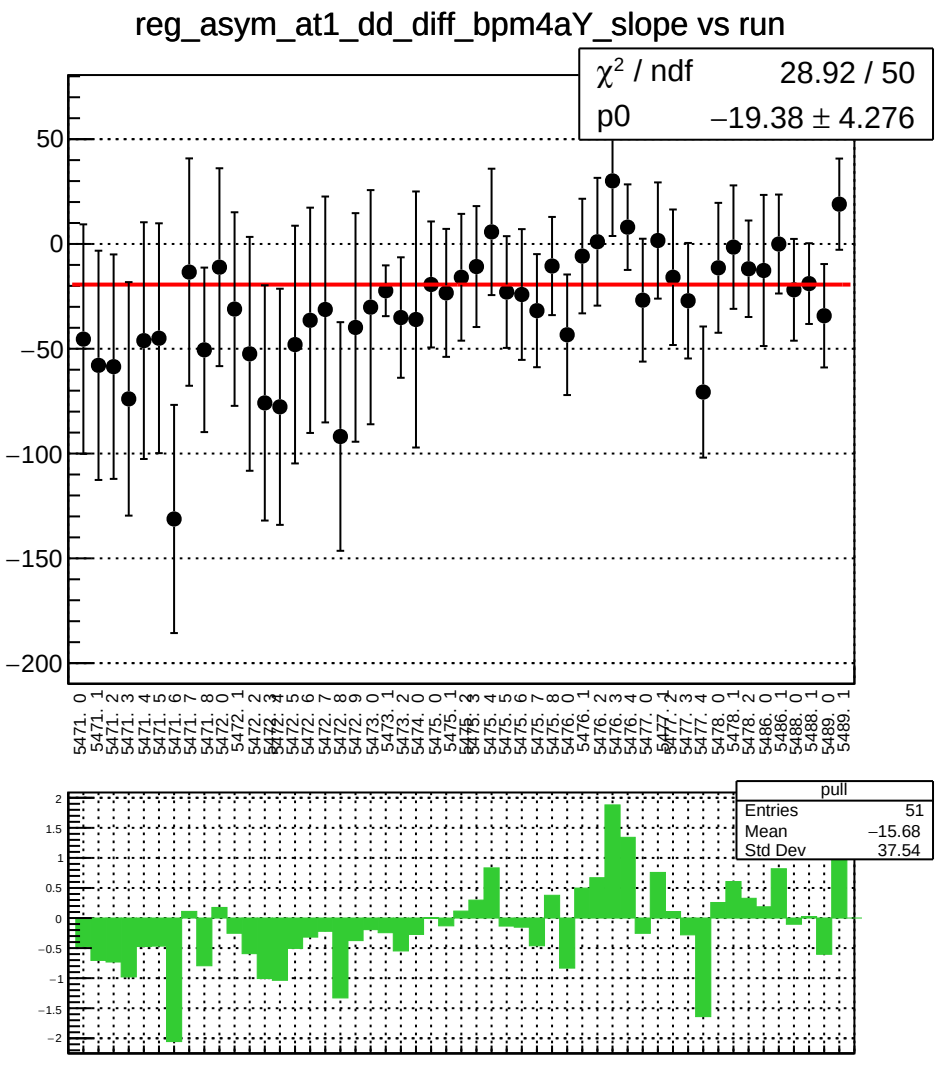

pull1D
Entries 51
Mean 0.1442
Std Dev 0.925
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

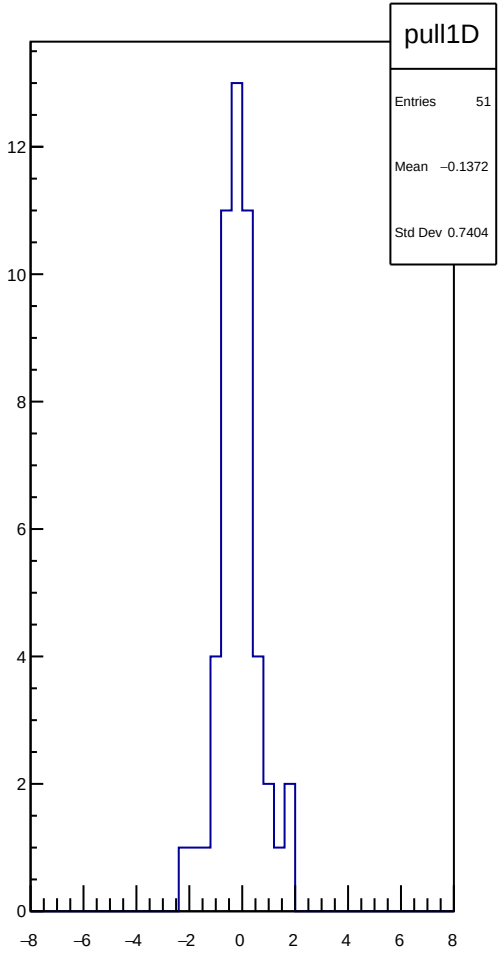

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 6.76e+04 / 50
p0 71.92 ± 0.179
pull
Entries 51
Mean −36.5
Std Dev 66.19

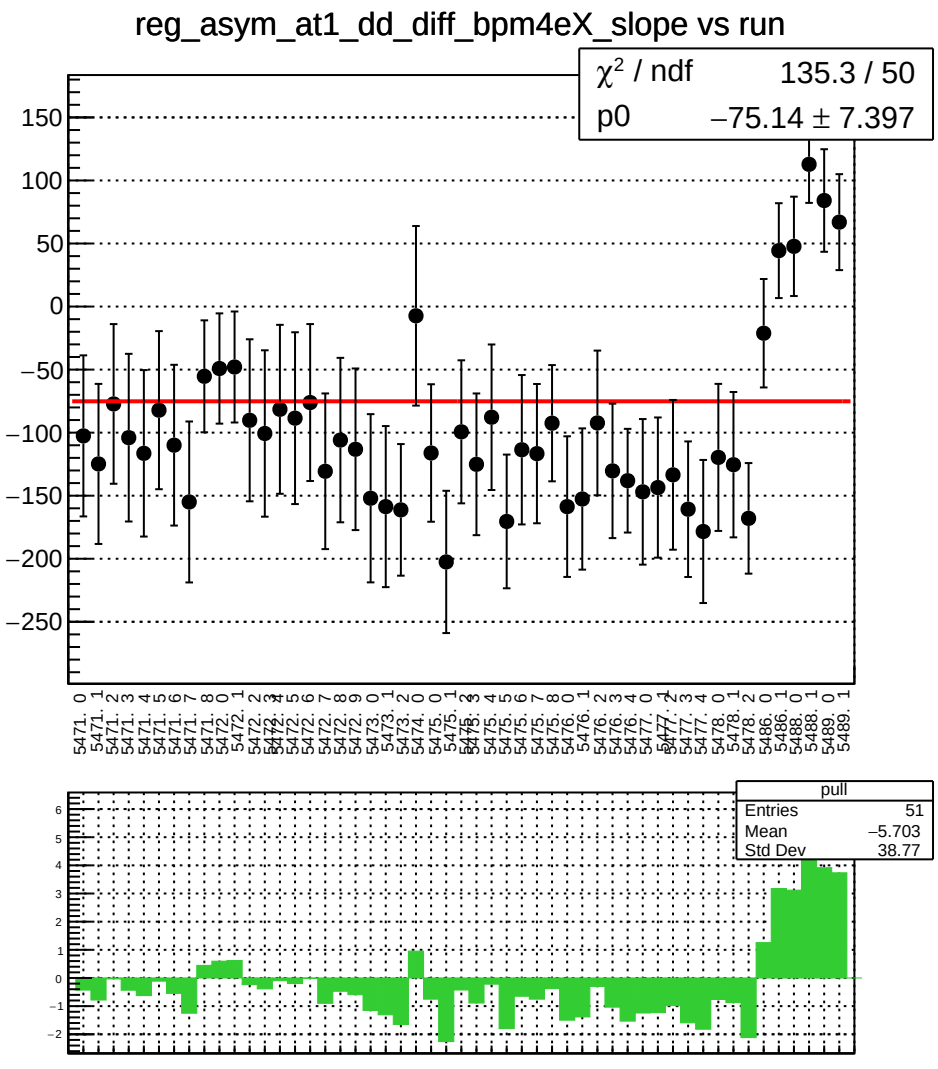

pull1D
Entries 51
Mean 0
Std Dev 0

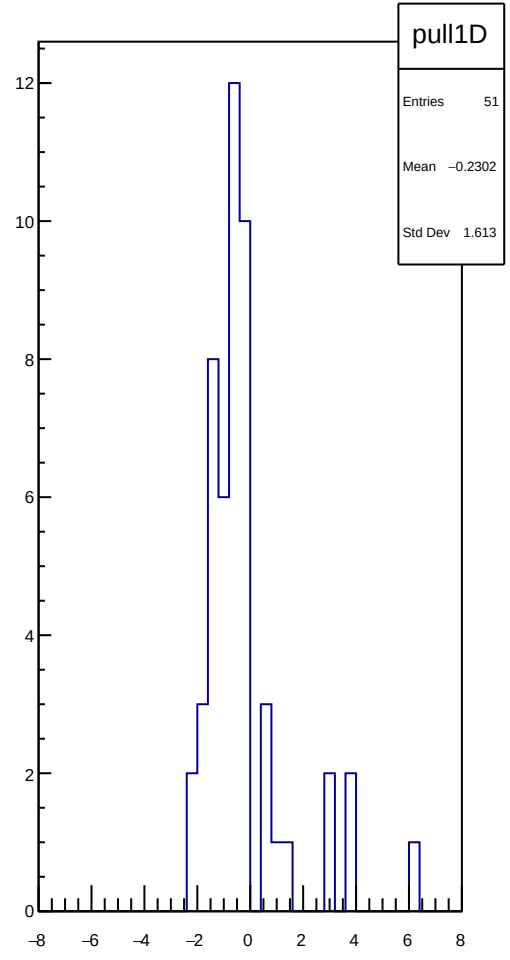

reg_asym_at1_dd_diff_bpm4aX_slope vs run
χ² / ndf 82.96 / 50
p0 94.56 ± 7.64
pull
Entries 51
Mean 1.91
Std Dev 33.04

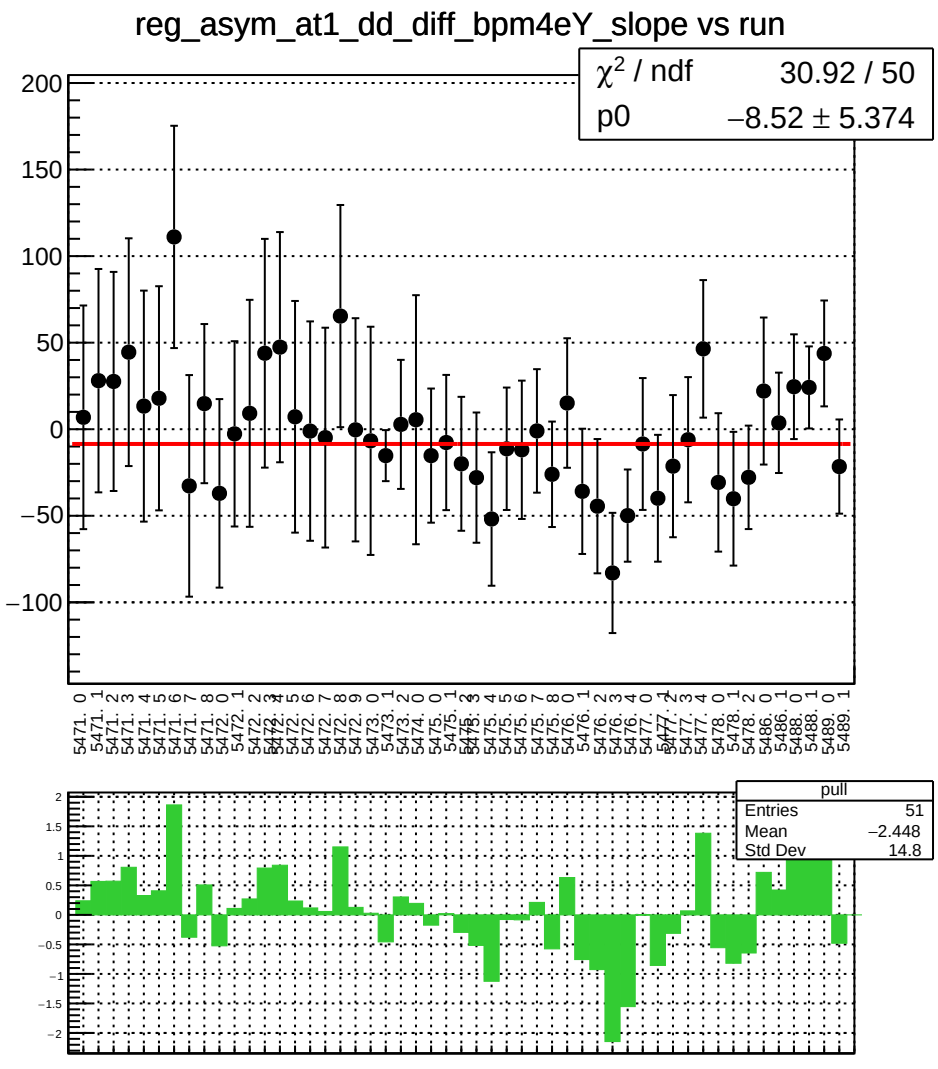

pull1D
Entries 51
Mean 0.1696
Std Dev 1.264

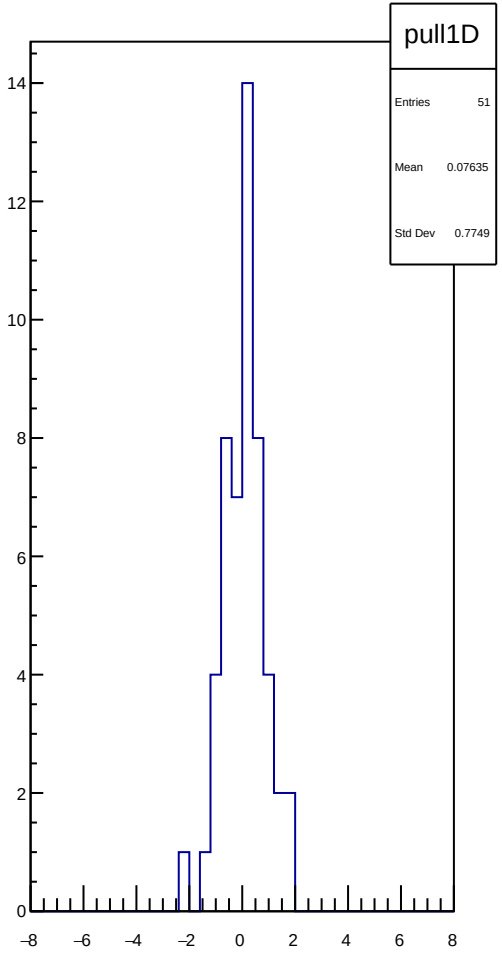

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.92 / 50
p0 −19.38 ± 4.276
pull
Entries 51
Mean −15.68
Std Dev 37.54

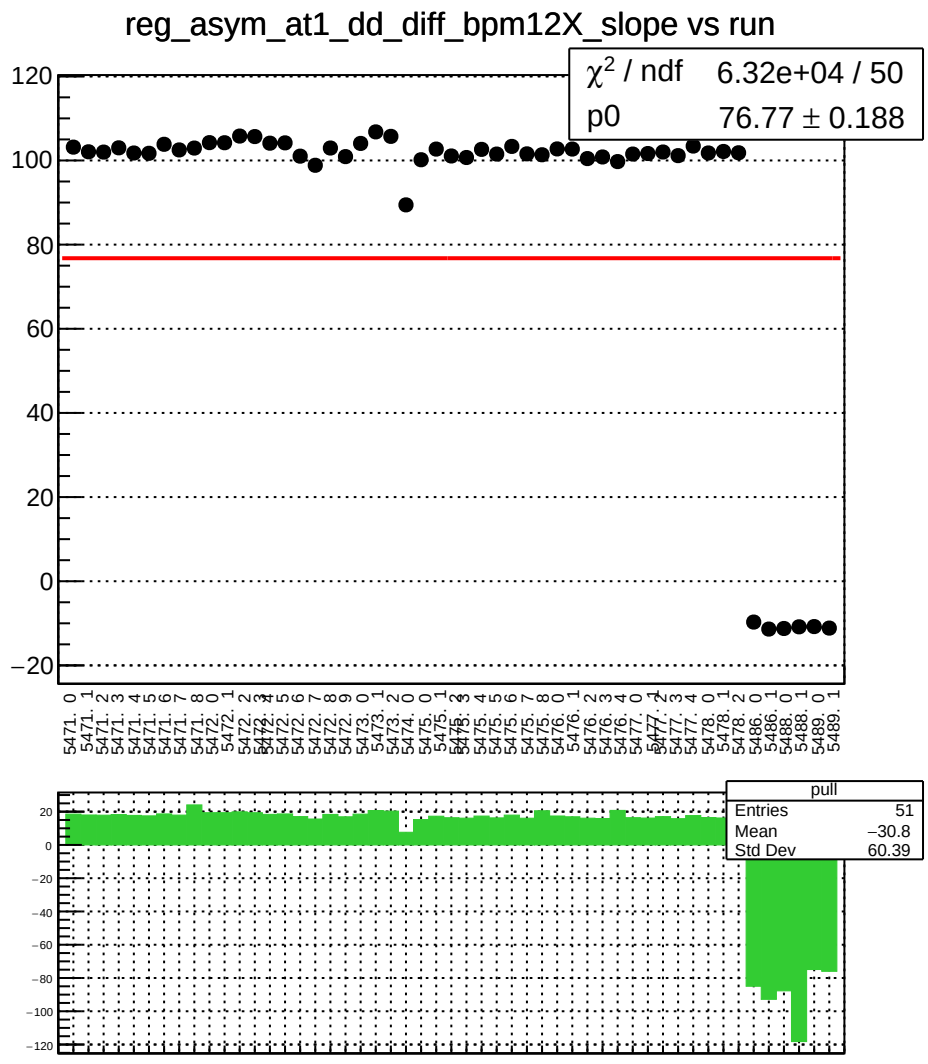

pull1D
Entries 51
Mean −0.1372
Std Dev 0.7404

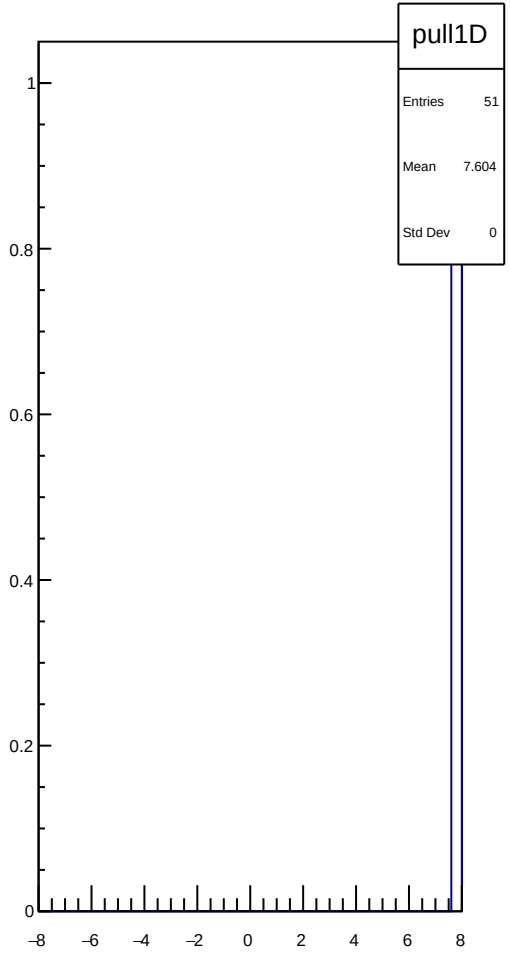

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 135.3 / 50
p0 −75.14 ± 7.397
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 51
Mean −5.703
Std Dev 38.77
6
5
4
3
2
1
0
−1
−2

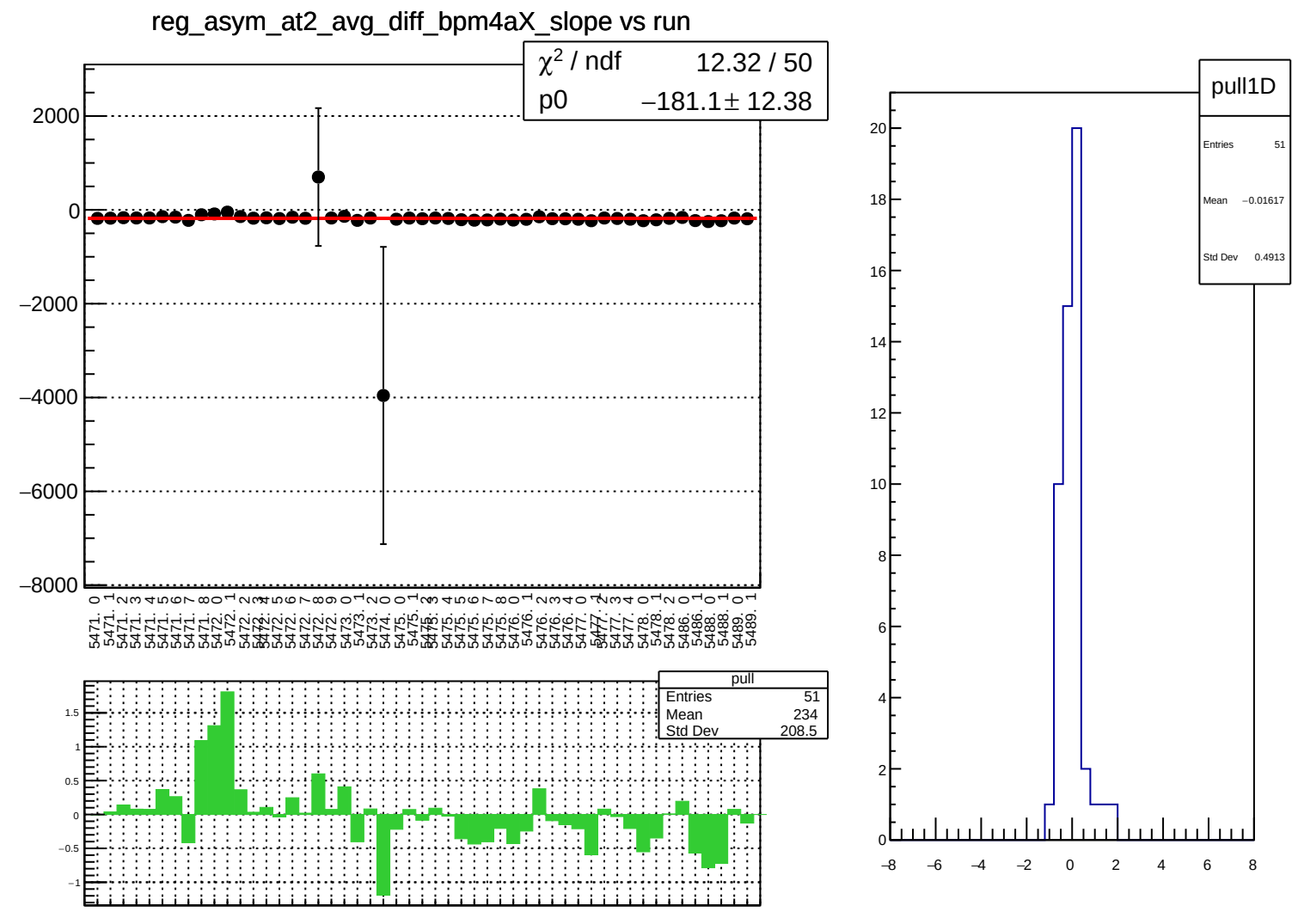

pull1D
Entries 51
Mean −0.2302
Std Dev 1.613
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

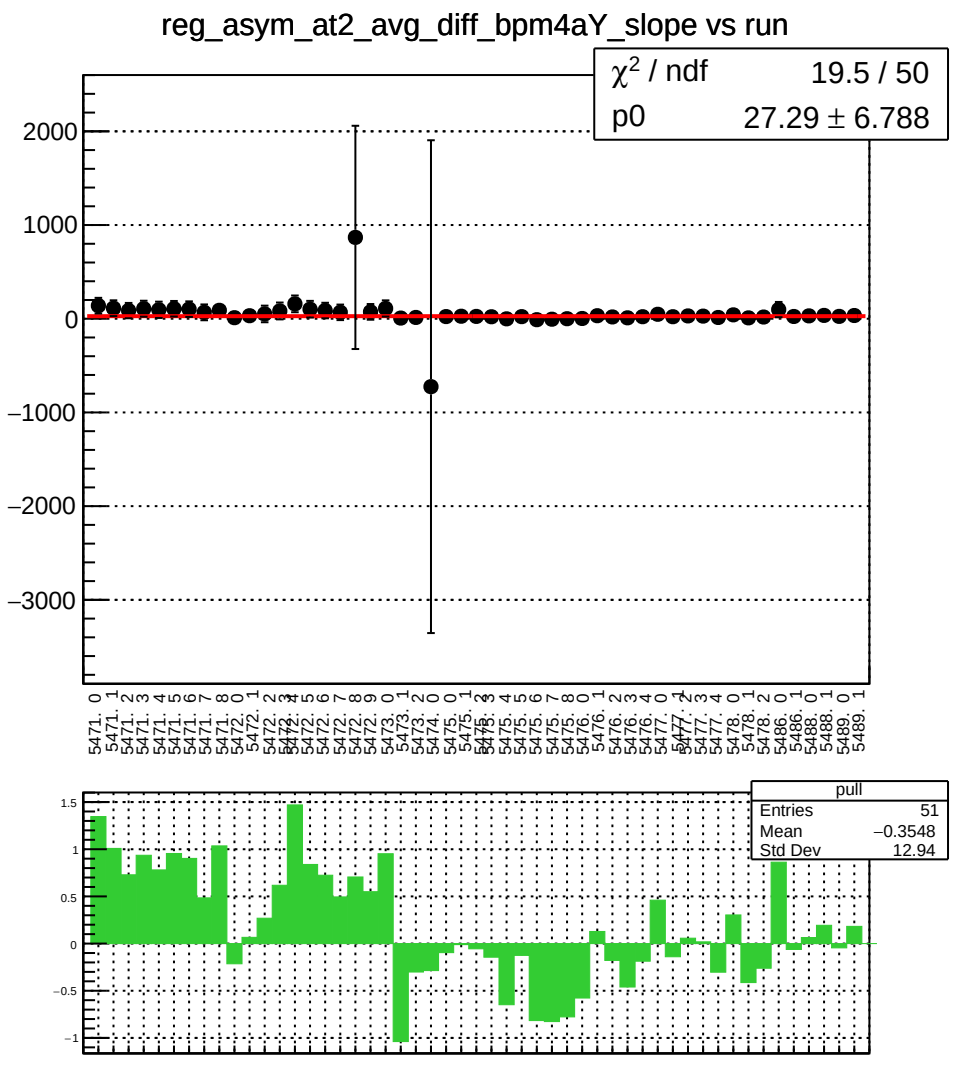

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.92 / 50
p0 −8.52 ± 5.374
pull
Entries 51
Mean −2.448
Std Dev 14.8

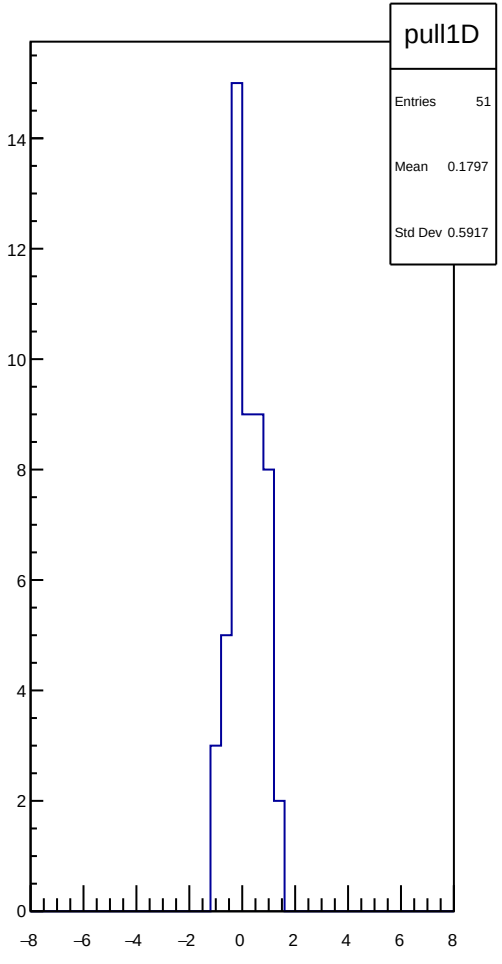

pull1D
Entries 51
Mean 0.07635
Std Dev 0.7749

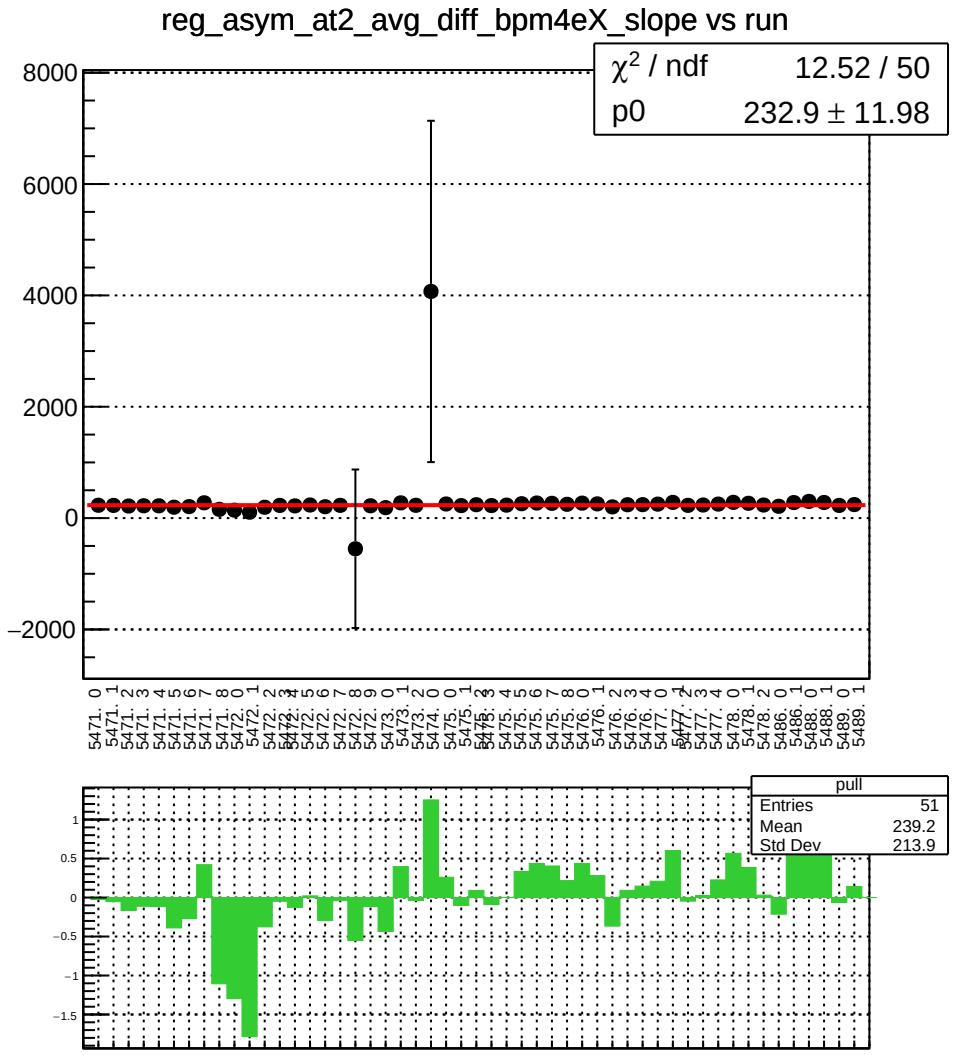

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 6.32e+04 / 50
p0 76.77 ± 0.188
pull
Entries 51
Mean −30.8
Std Dev 60.39

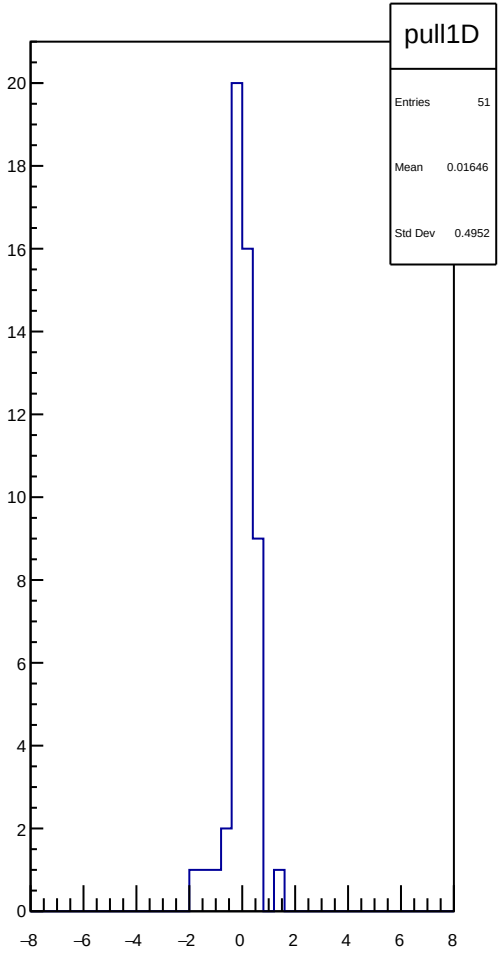

pull1D
Entries 51
Mean 7.604
Std Dev 0

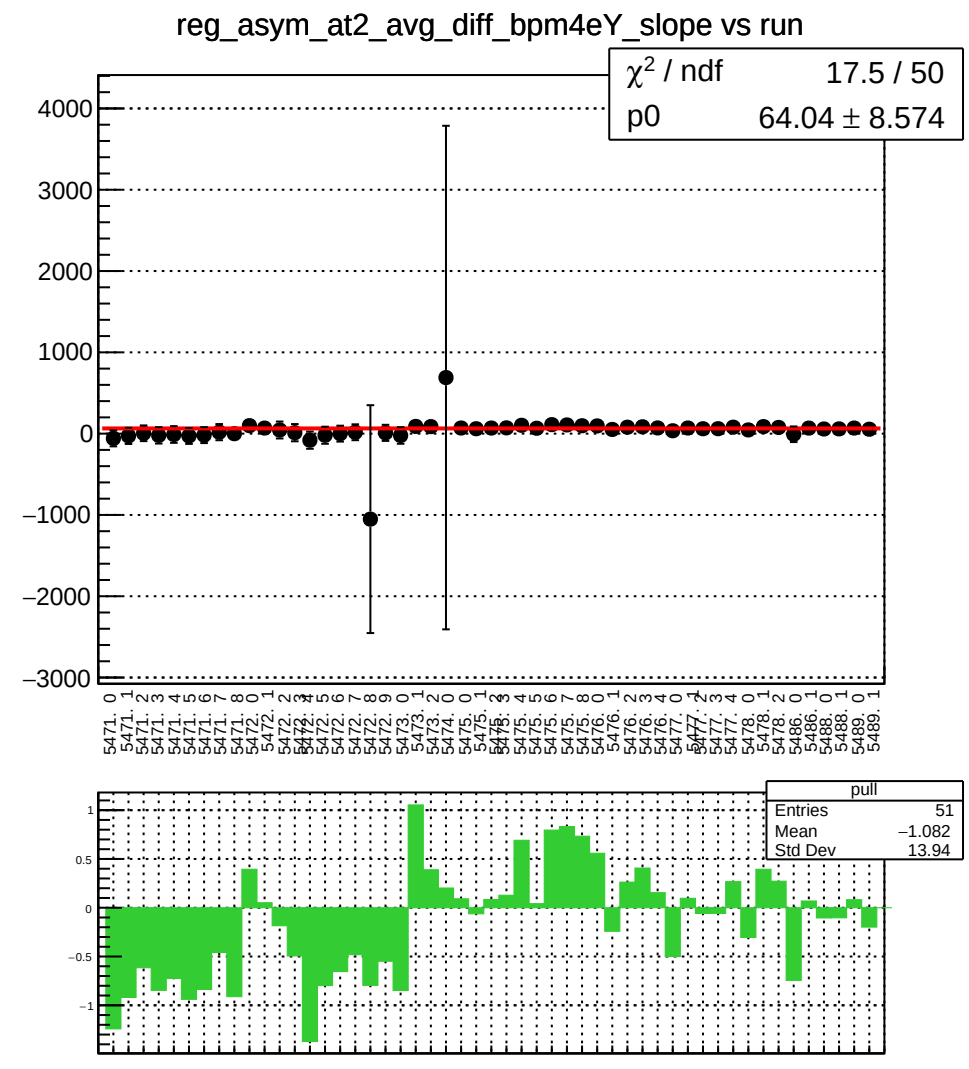

reg_asym_at2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.32 / 50
p0 −181.1± 12.38
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean 234
Std Dev 208.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean −0.01617
Std Dev 0.4913
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

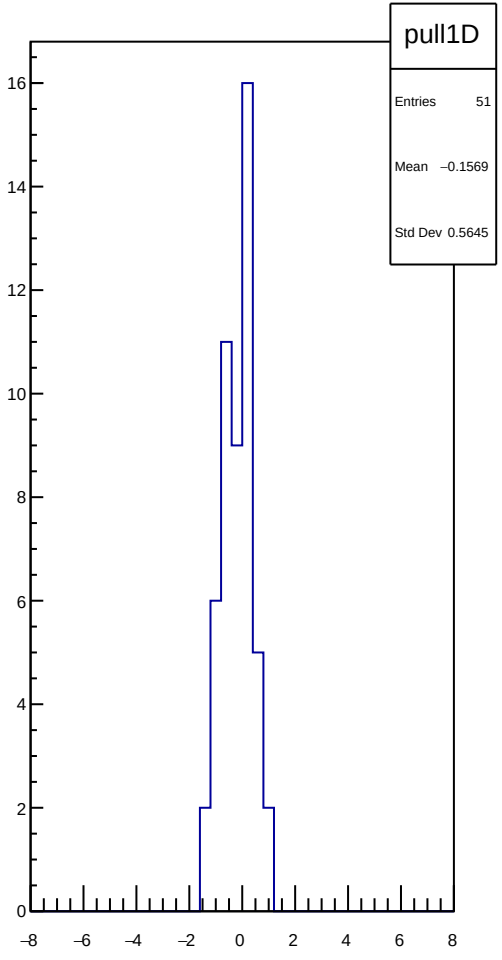

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.5 / 50
p0 27.29 ± 6.788
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −0.3548
Std Dev 12.94
1.5
1
0.5
0
−0.5
−1

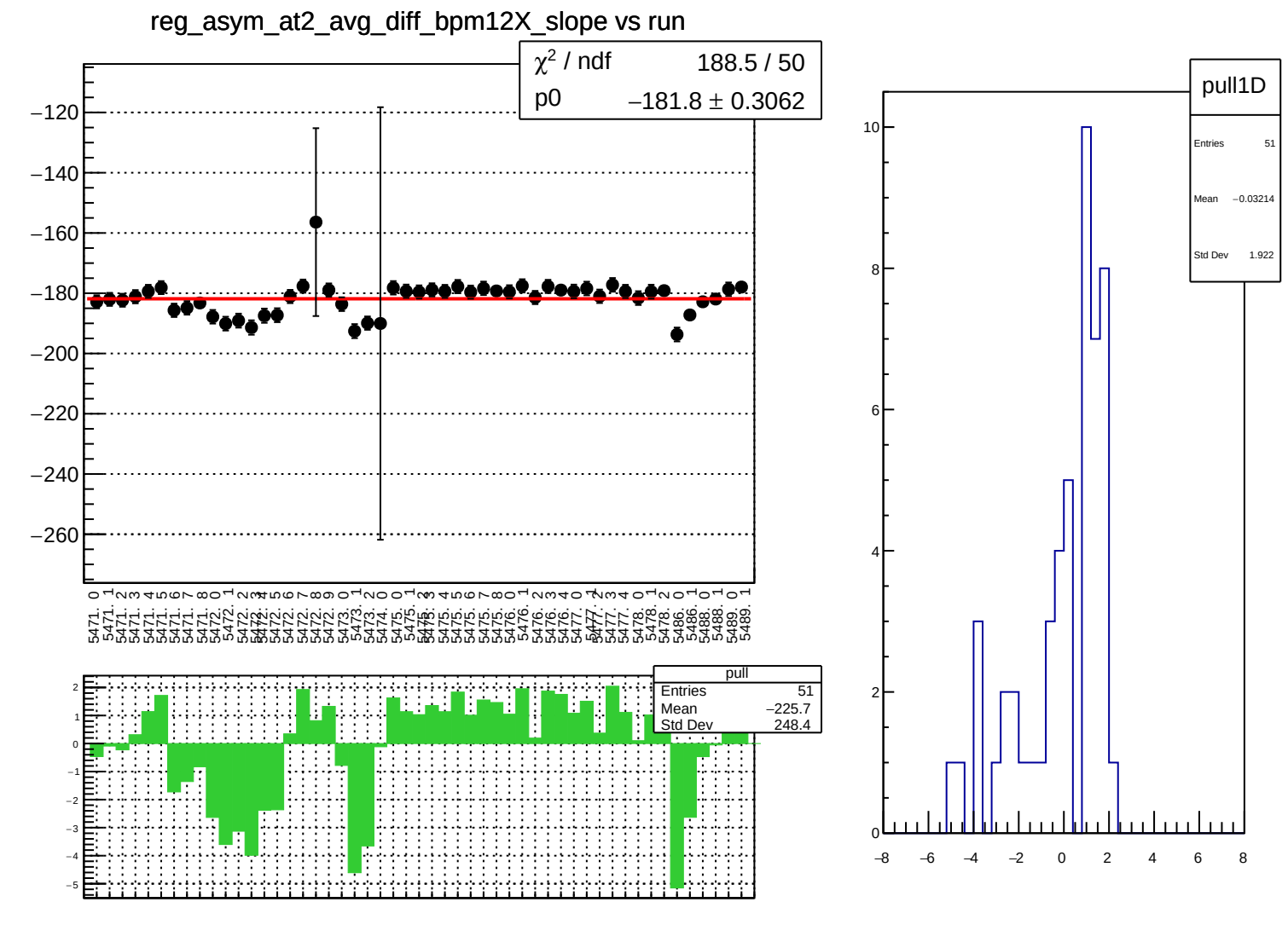

pull1D
Entries 51
Mean 0.1797
Std Dev 0.5917
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

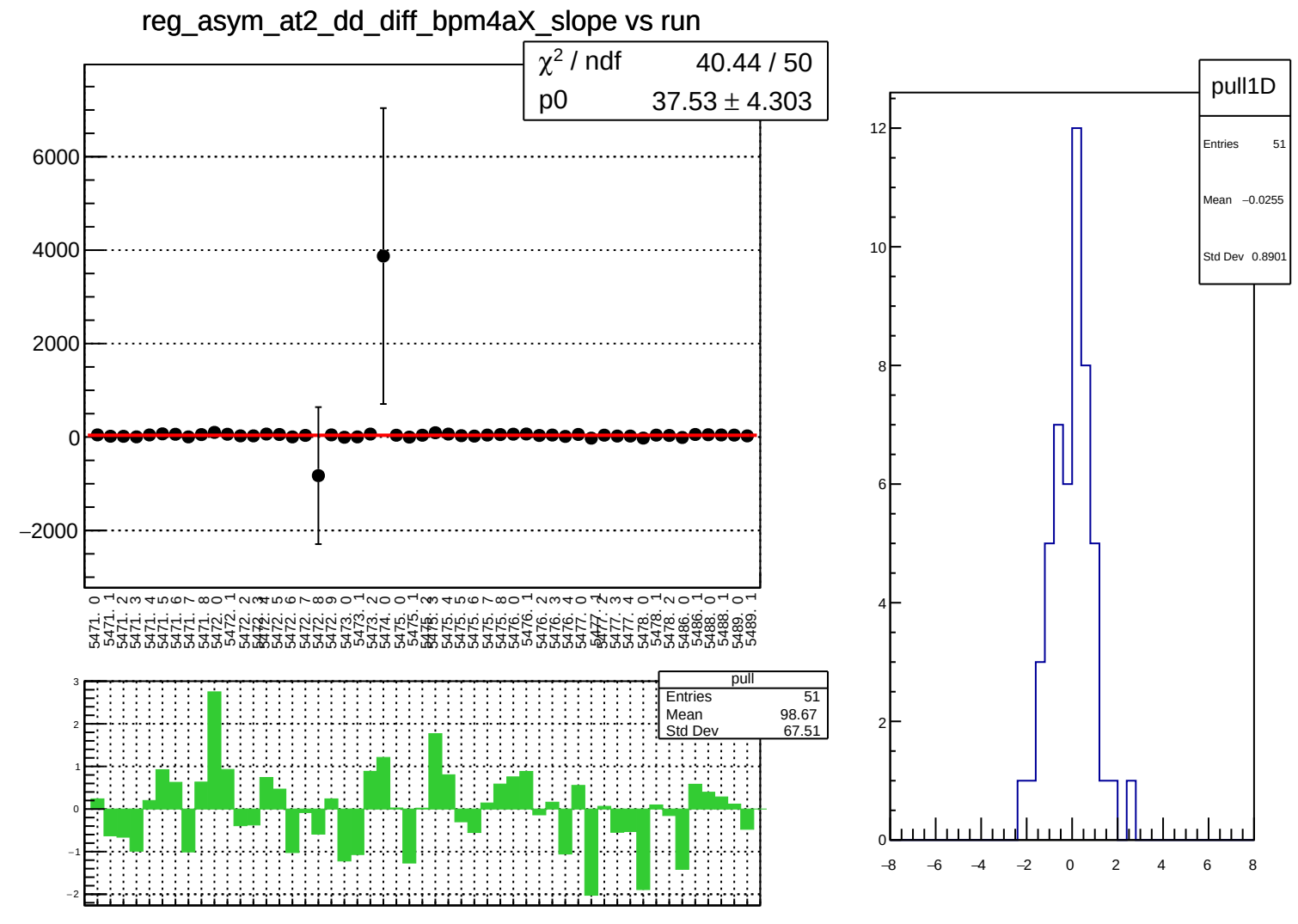

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.52 / 50
p0 232.9 ± 11.98
pull
Entries 51
Mean 239.2
Std Dev 213.9

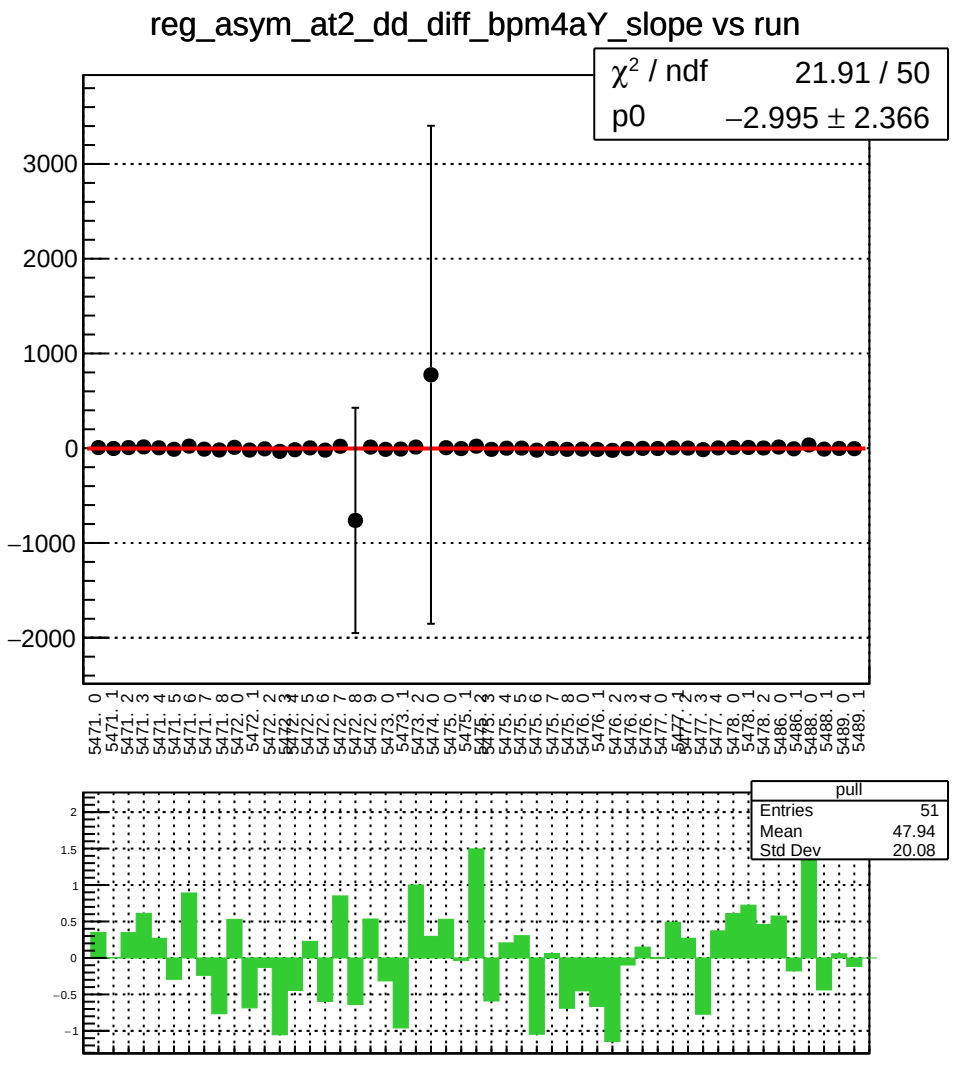

pull1D
Entries 51
Mean 0.01646
Std Dev 0.4952

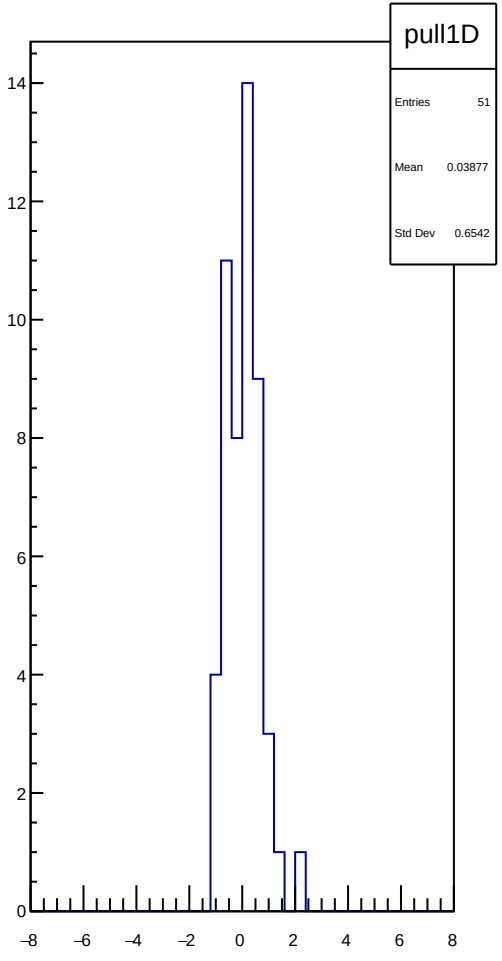

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.5 / 50
p0 64.04 ± 8.574
pull
Entries 51
Mean −1.082
Std Dev 13.94

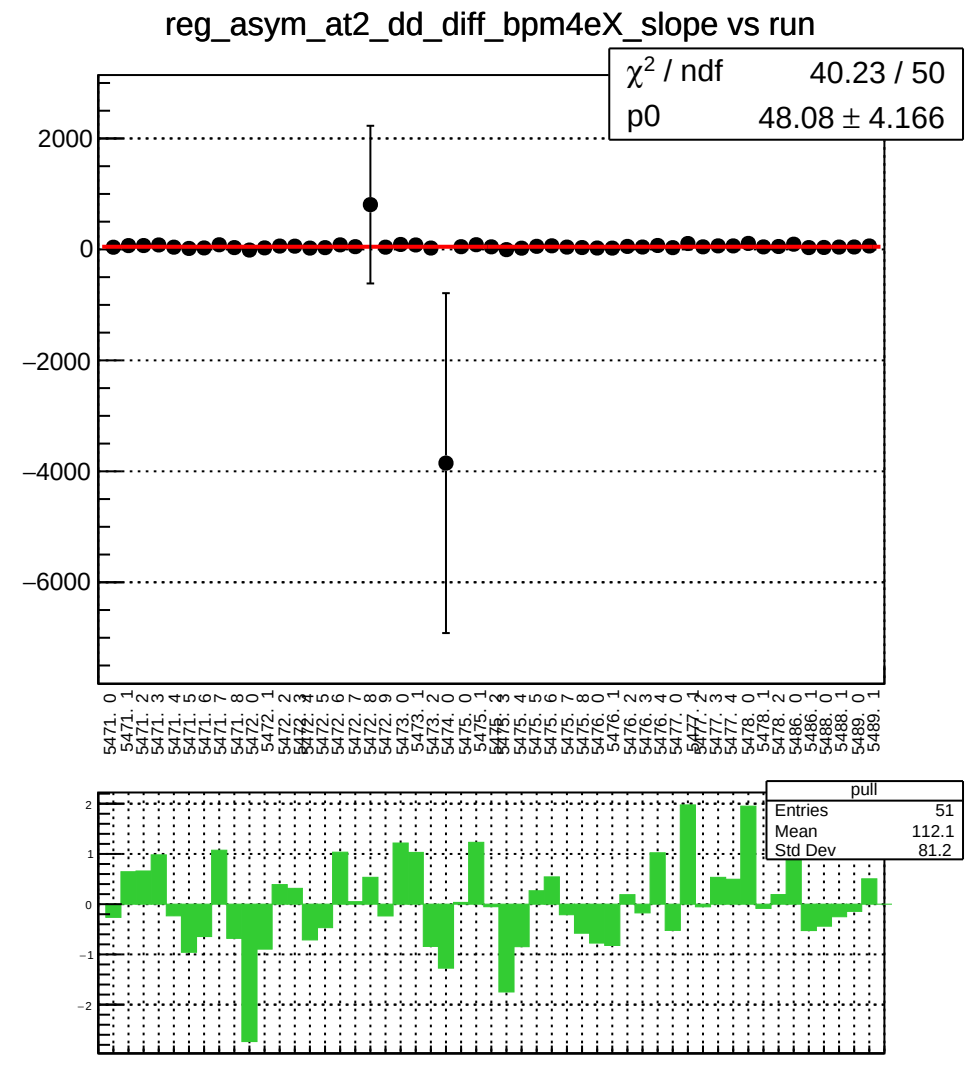

pull1D
Entries 51
Mean −0.1569
Std Dev 0.5645

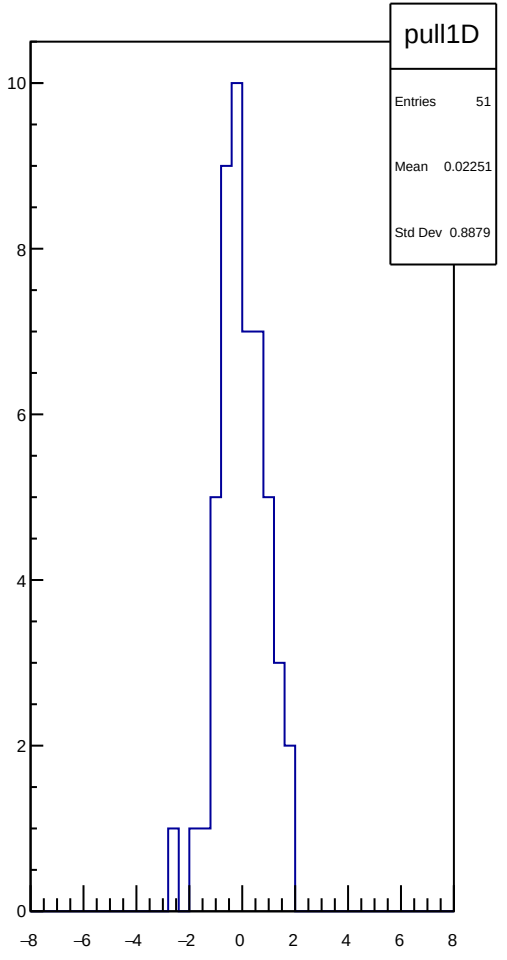

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 188.5 / 50
p0 −181.8 ± 0.3062
pull
Entries 51
Mean −225.7
Std Dev 248.4
pull1D
Entries 51
Mean −0.03214
Std Dev 1.922

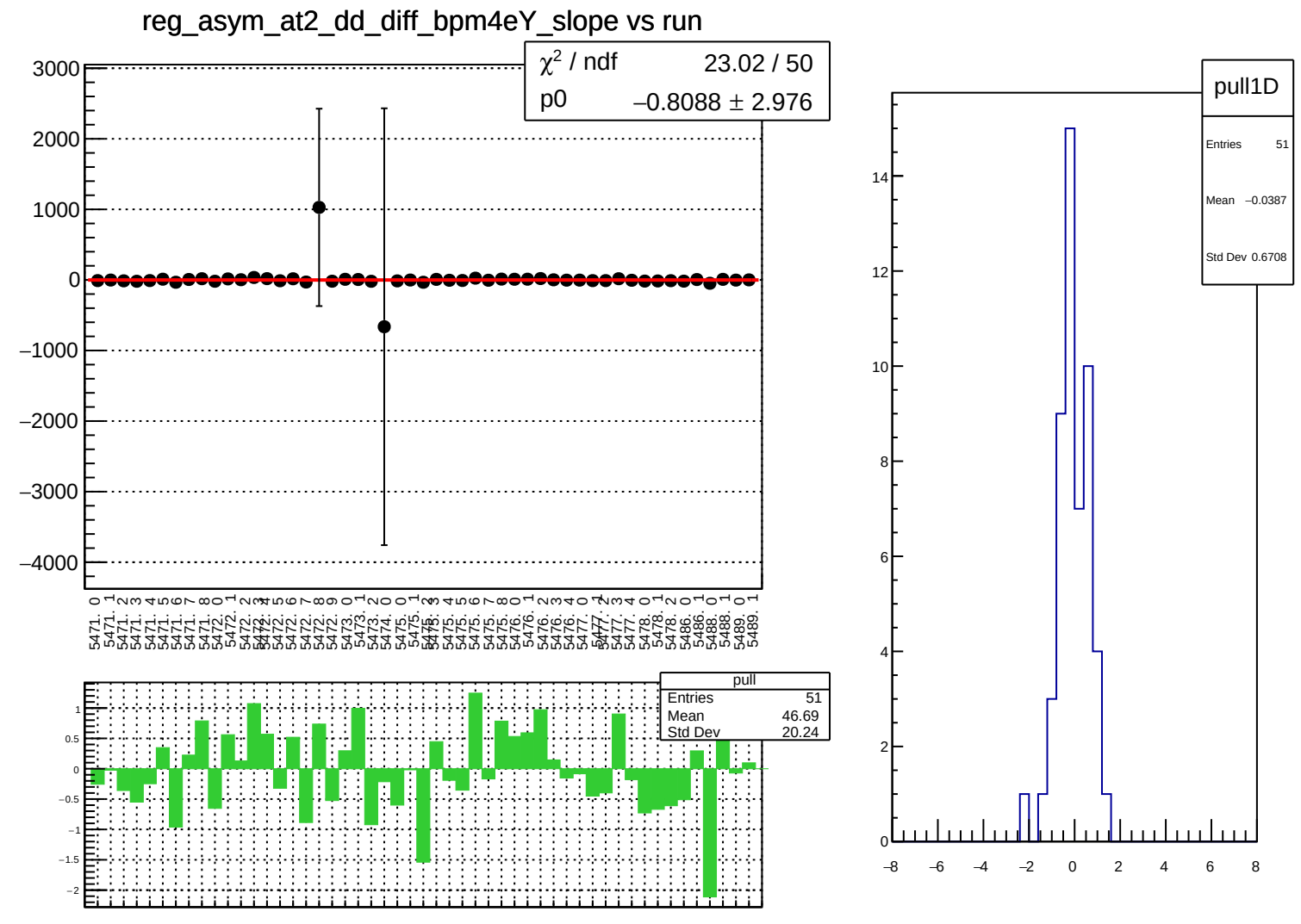

reg_asym_at2_dd_diff_bpm4aX_slope vs run
χ² / ndf 40.44 / 50
p0 37.53 ± 4.303
6000
4000
2000
0
−2000
pull
Entries 51
Mean 98.67
Std Dev 67.51
pull1D
Entries 51
Mean −0.0255
Std Dev 0.8901

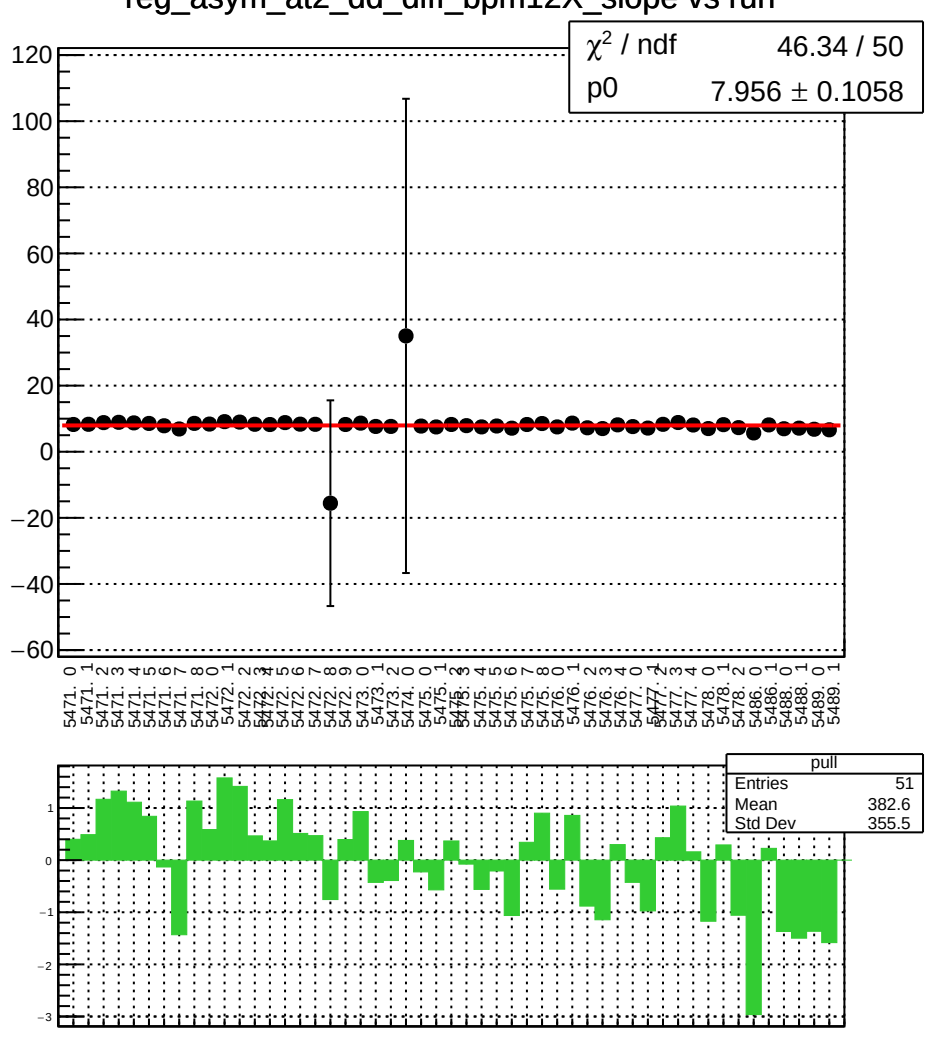

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.91 / 50
p0 −2.995 ± 2.366
3000
2000
1000
0
−1000
−2000
pull
Entries 51
Mean 47.94
Std Dev 20.08
2
1.5
1
0.5
0
−0.5
−1

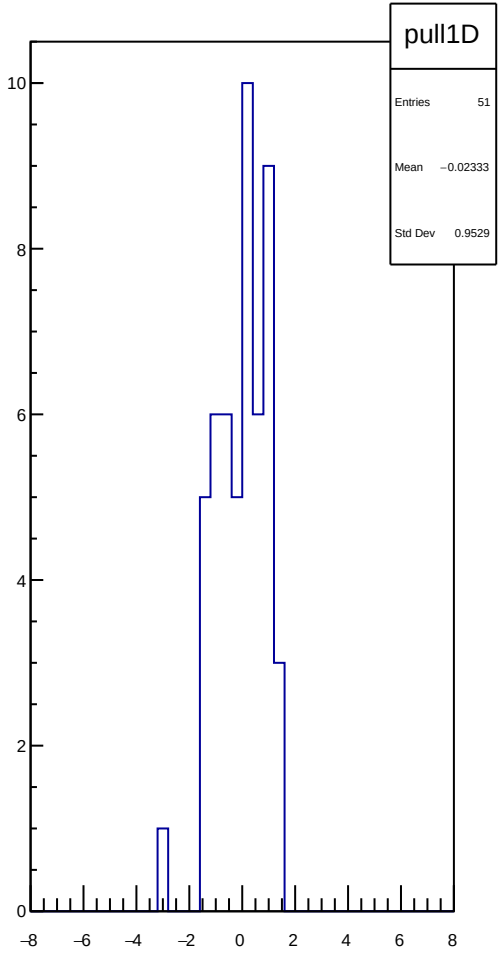

pull1D
Entries 51
Mean 0.03877
Std Dev 0.6542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

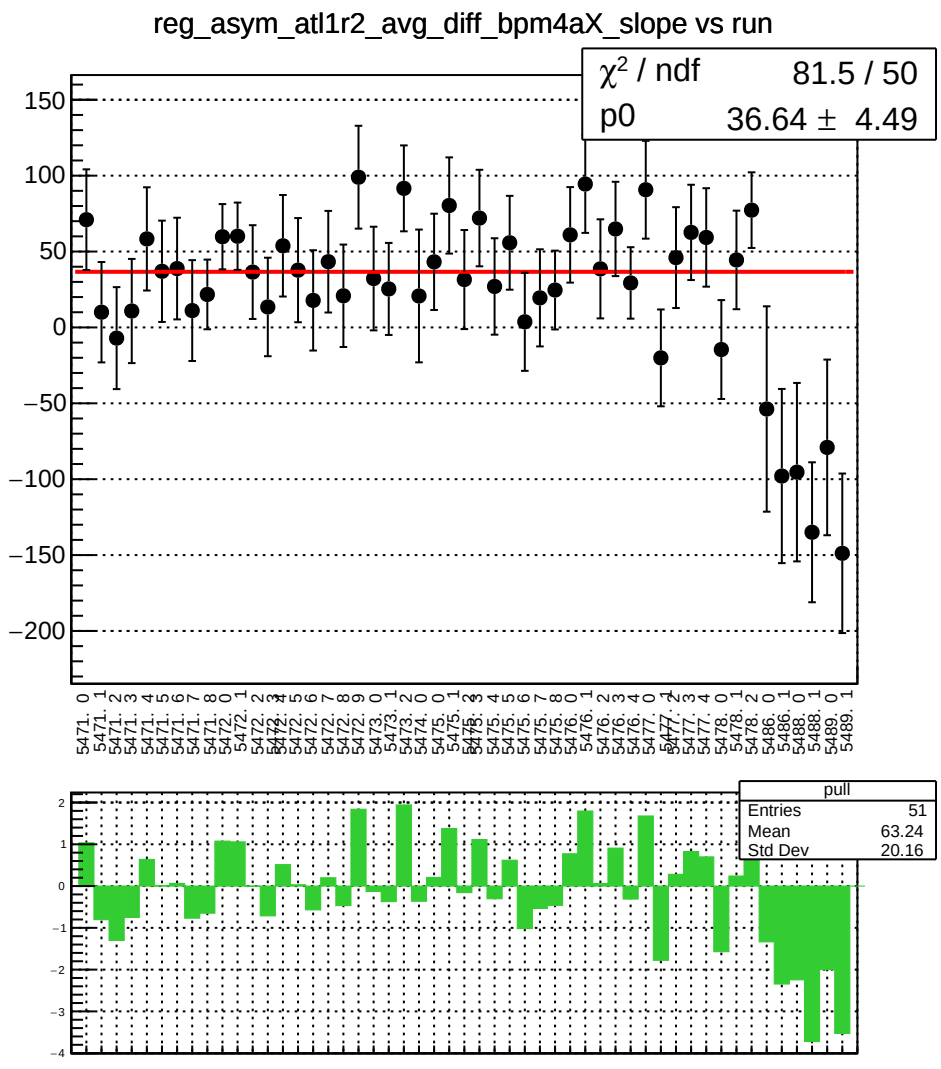

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 40.23 / 50
p0 48.08 ± 4.166
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 112.1
Std Dev 81.2
2
1
0
−1
−2

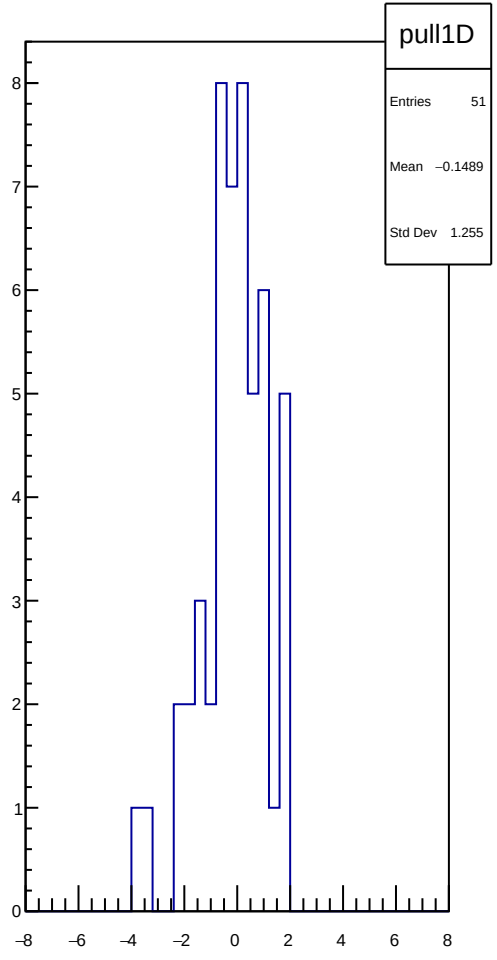

pull1D
Entries 51
Mean 0.02251
Std Dev 0.8879
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

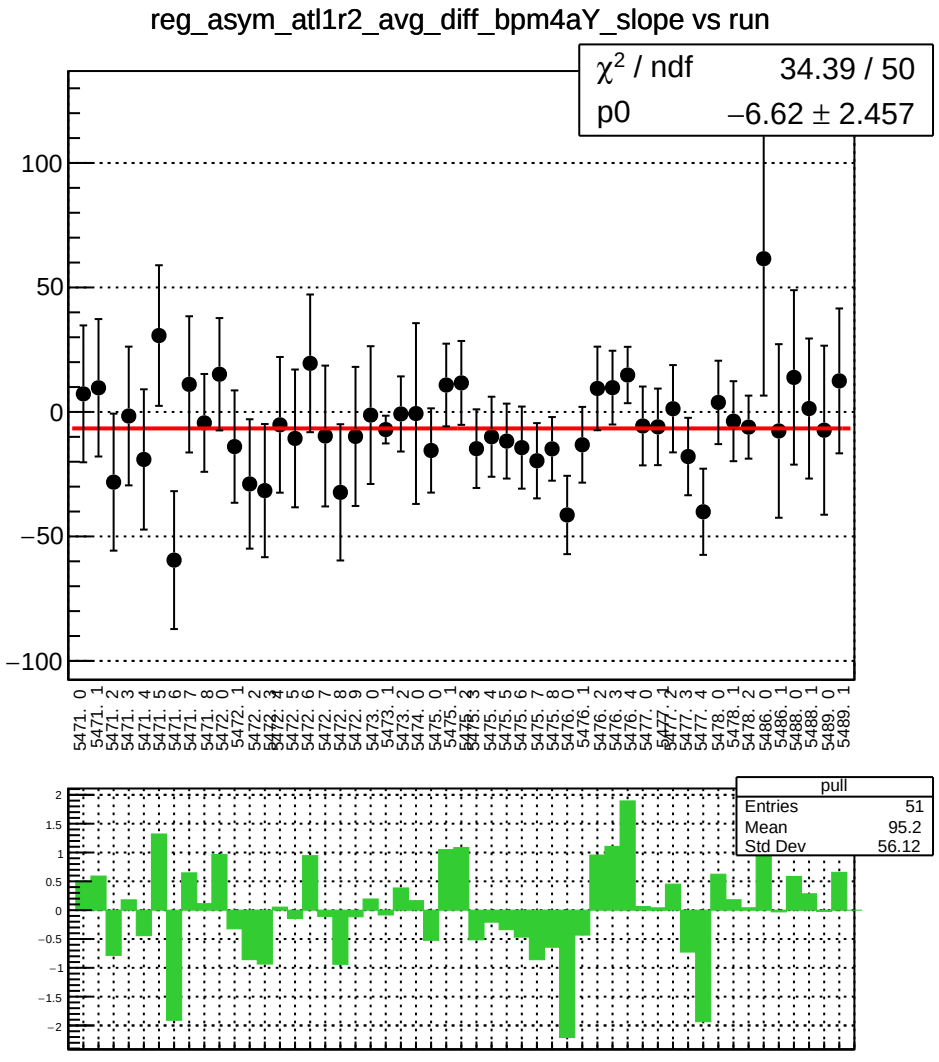

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.02 / 50
p0 −0.8088 ± 2.976
pull
Entries 51
Mean 46.69
Std Dev 20.24
pull1D
Entries 51
Mean −0.0387
Std Dev 0.6708

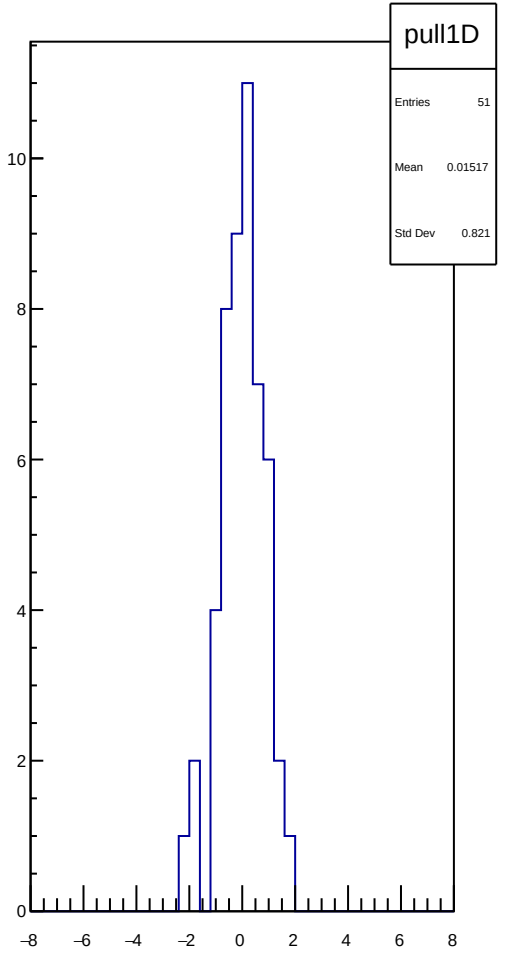

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.34 / 50
p0 7.956 ± 0.1058
pull
Entries 51
Mean 382.6
Std Dev 355.5

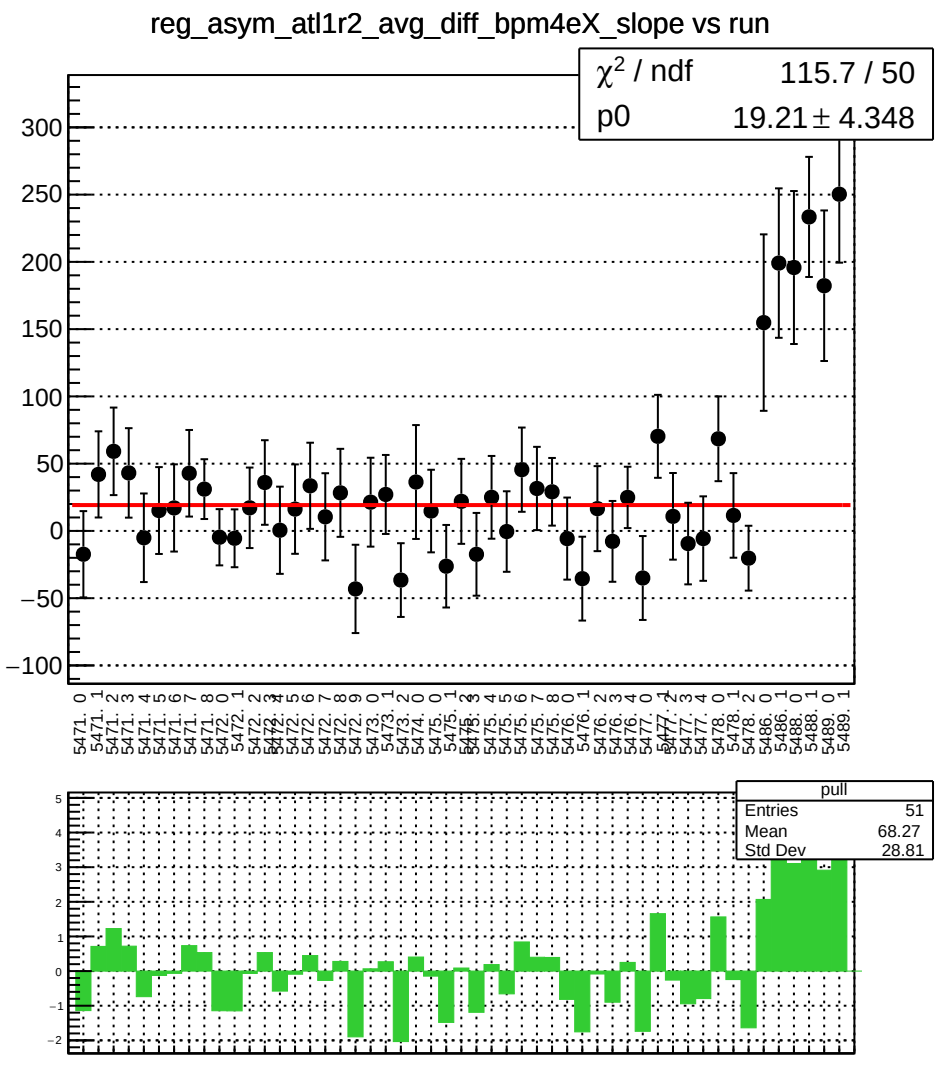

pull1D
Entries 51
Mean −0.02333
Std Dev 0.9529

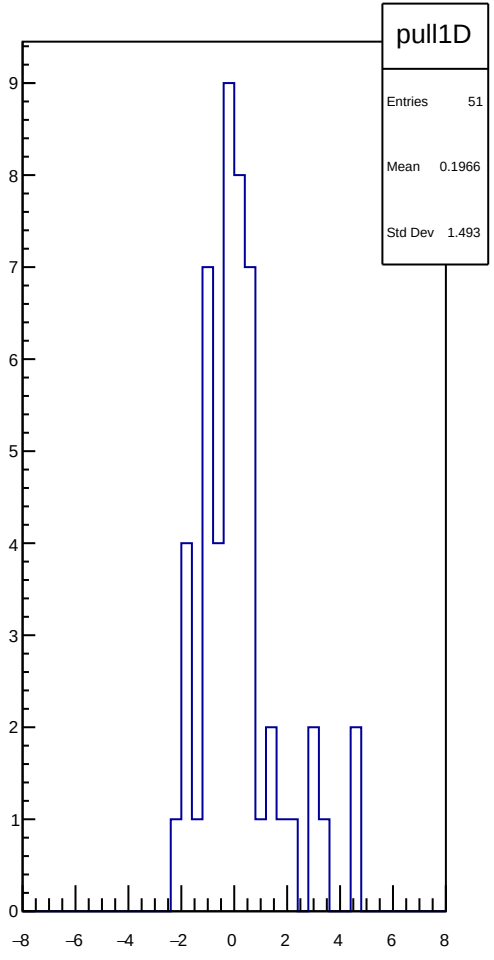

reg_asym_atl1r2_avg_diff_bpm4aX_slope vs run
χ² / ndf 81.5 / 50
p0 36.64 ± 4.49
pull
Entries 51
Mean 63.24
Std Dev 20.16

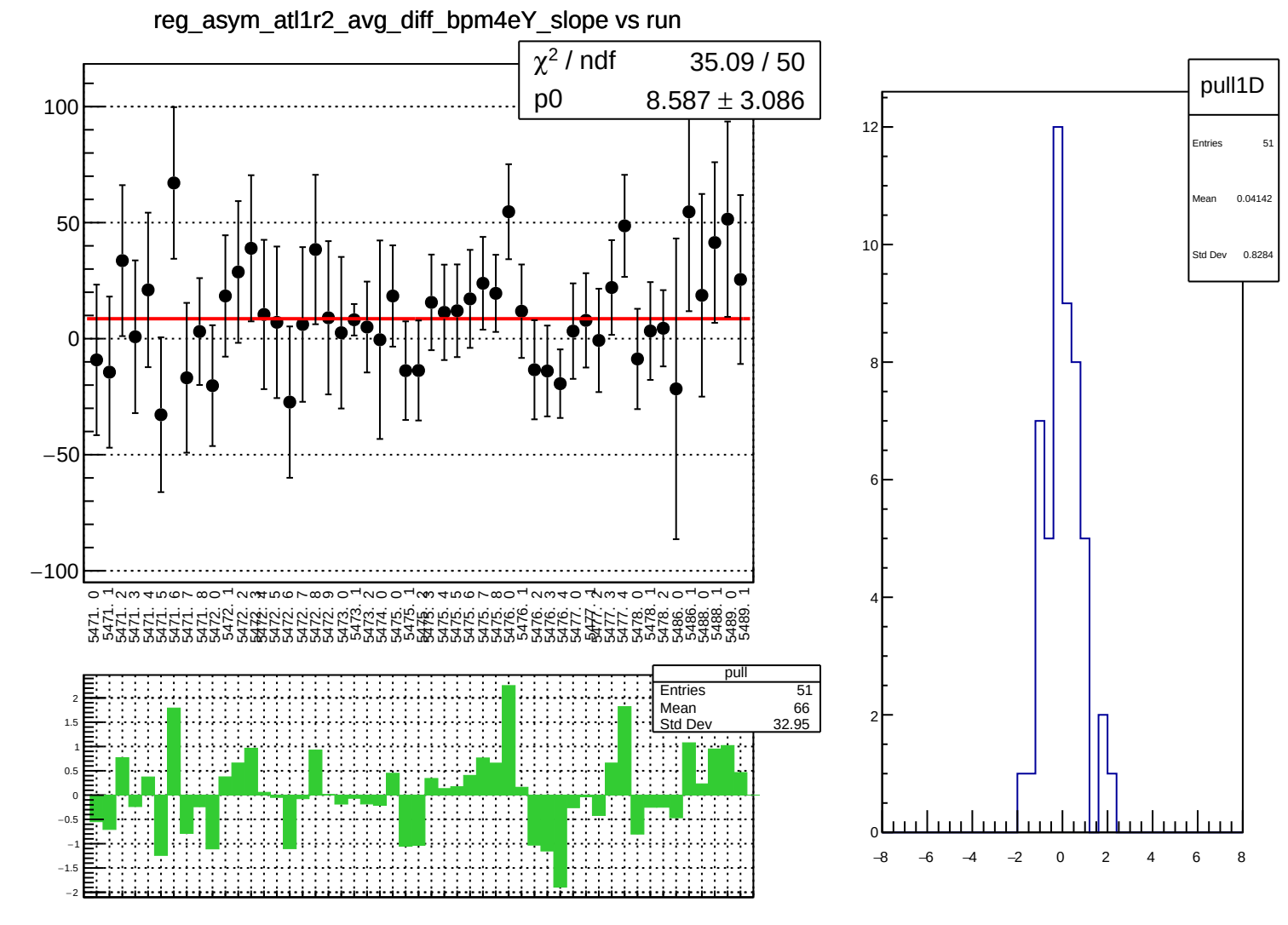

pull1D
Entries 51
Mean −0.1489
Std Dev 1.255

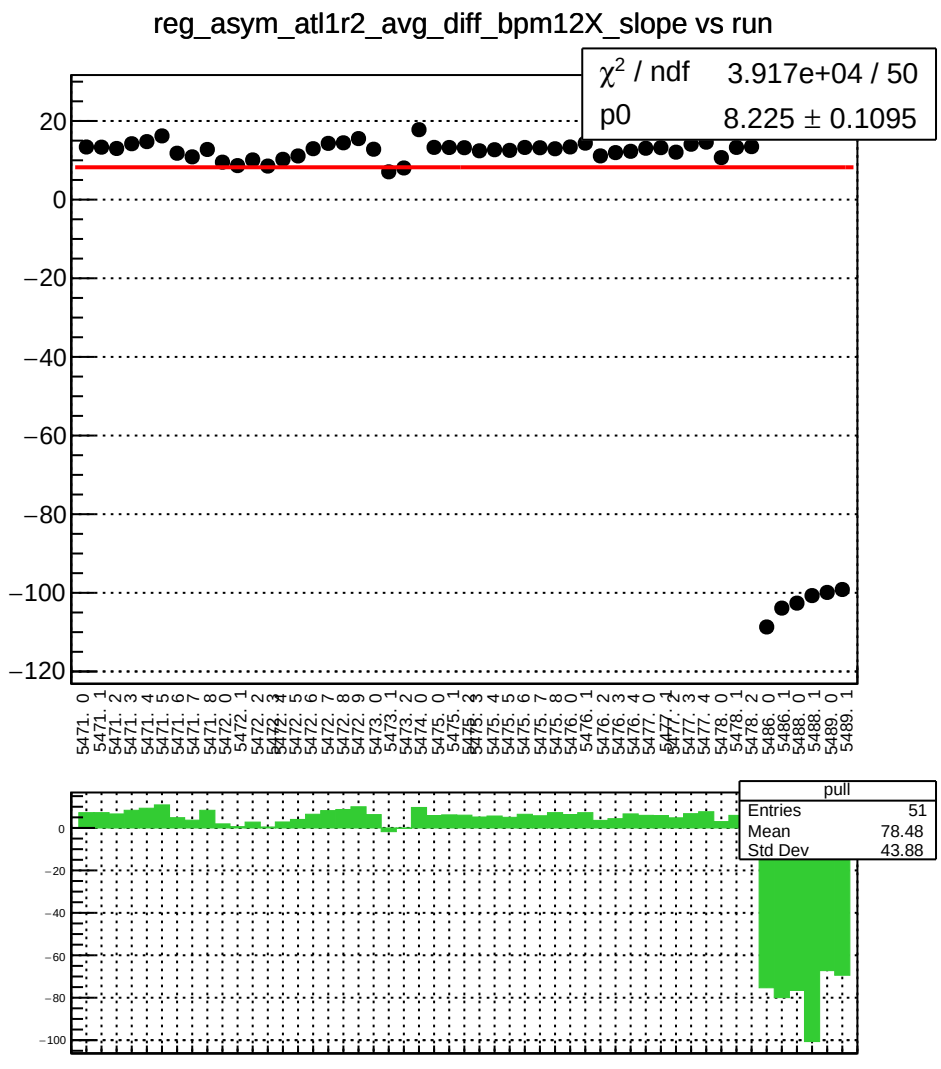

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.39 / 50
p0 −6.62 ± 2.457
pull
Entries 51
Mean 95.2
Std Dev 56.12

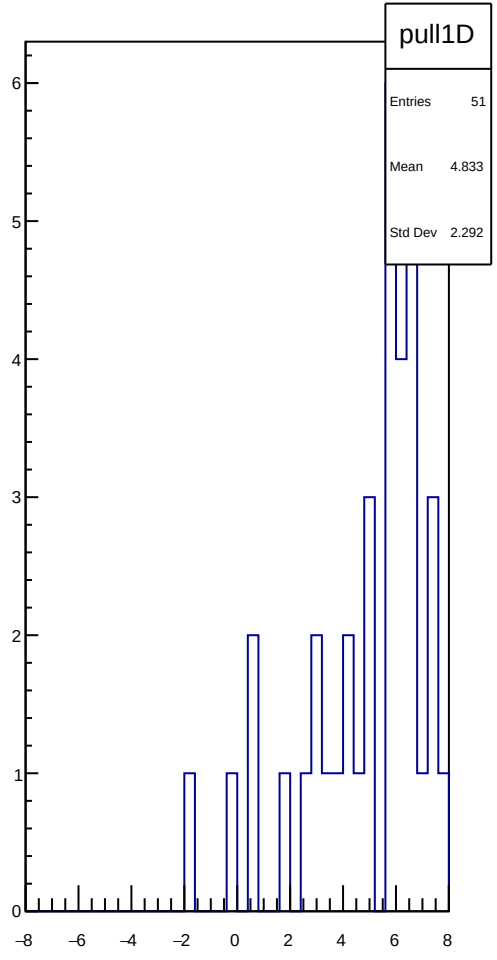

pull1D
Entries 51
Mean 0.01517
Std Dev 0.821

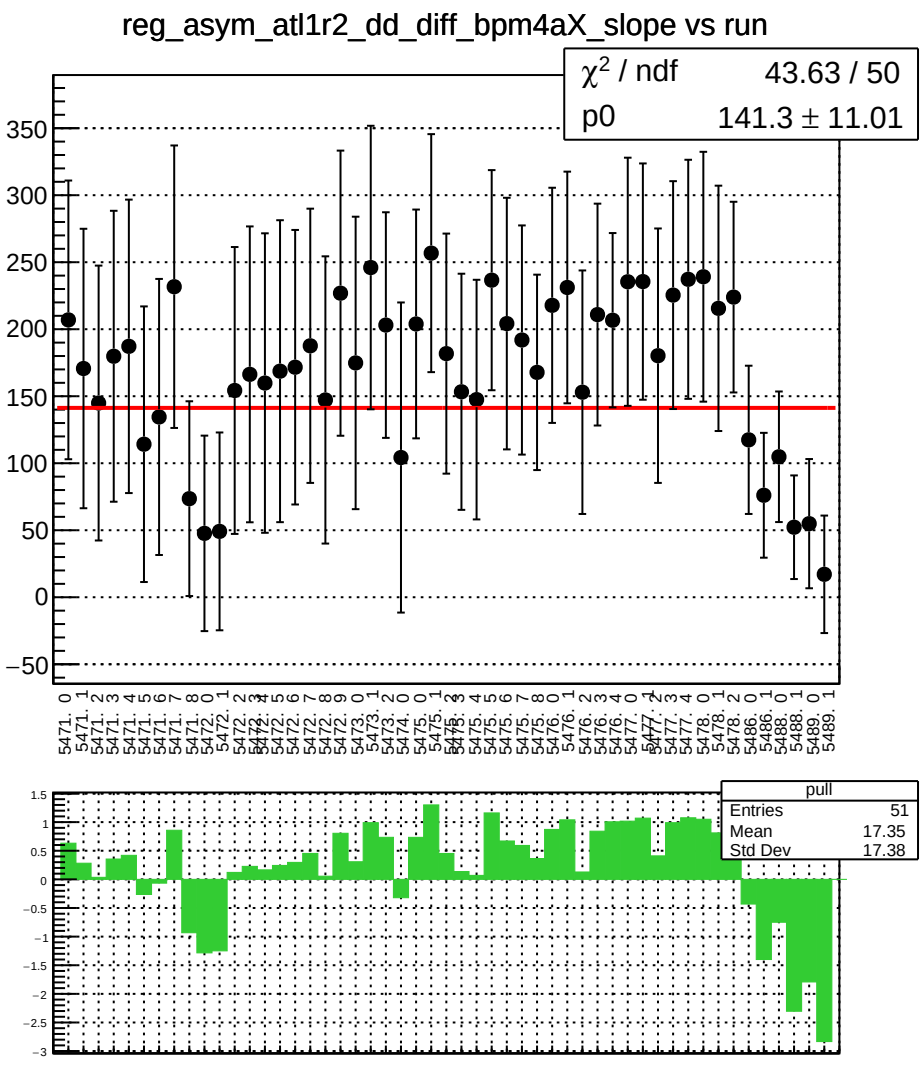

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 115.7 / 50
p0 19.21 ± 4.348
pull
Entries 51
Mean 68.27
Std Dev 28.81

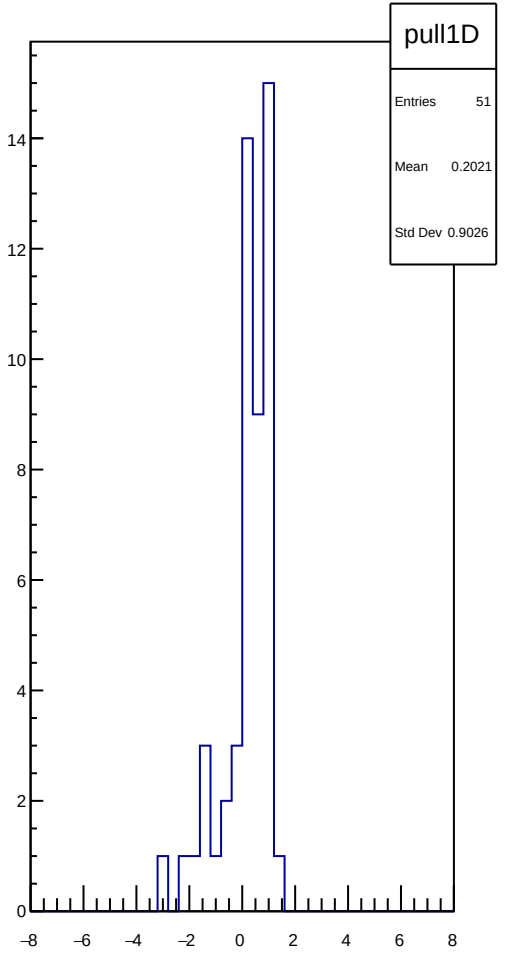

pull1D
Entries 51
Mean 0.1966
Std Dev 1.493

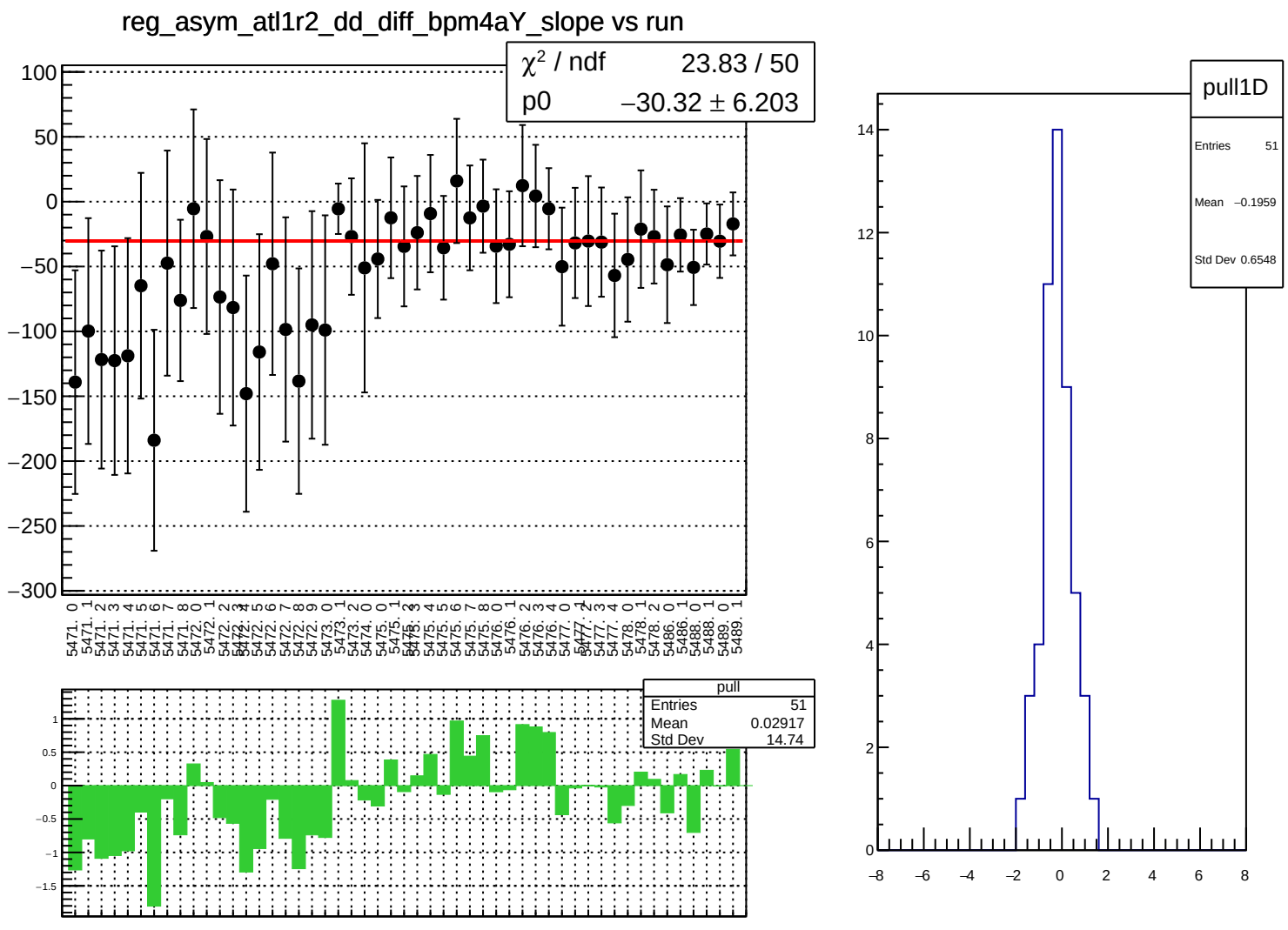

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.09 / 50
p0 8.587 ± 3.086
pull
Entries 51
Mean 66
Std Dev 32.95
pull1D
Entries 51
Mean 0.04142
Std Dev 0.8284

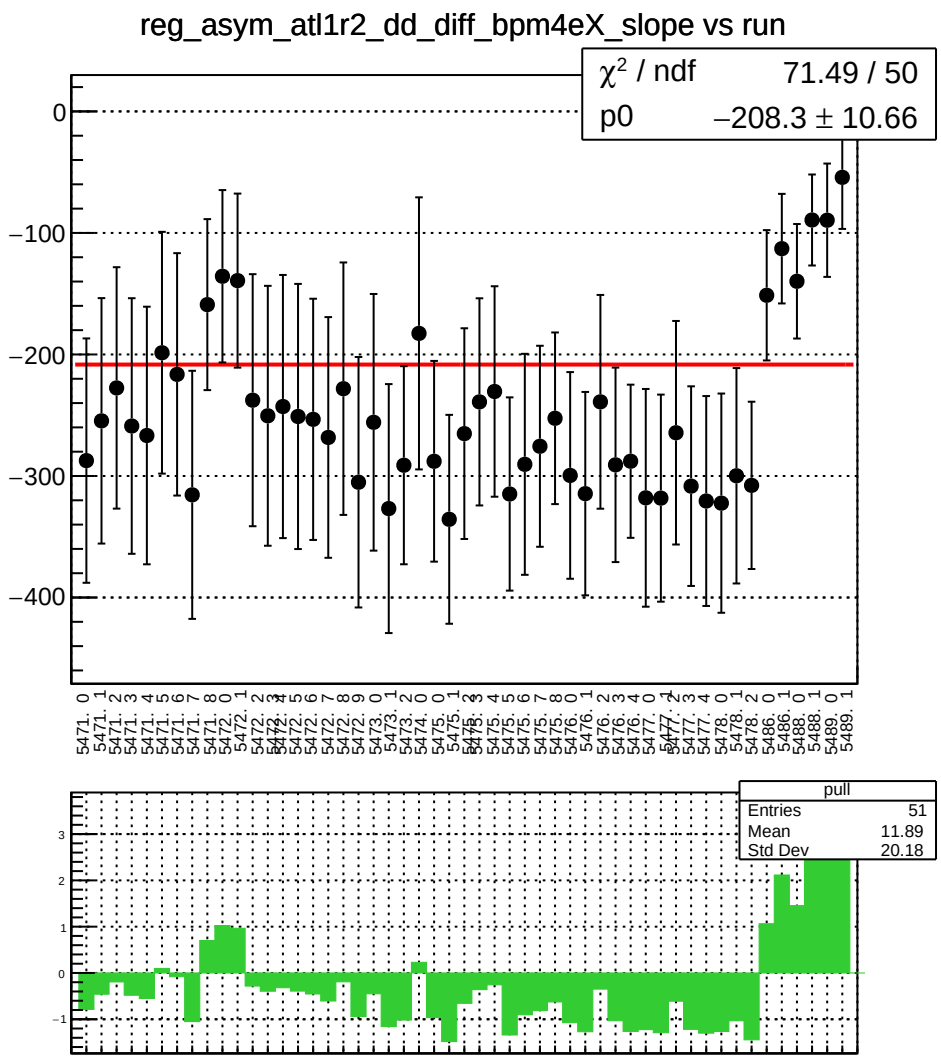

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3.917e+04 / 50
p0 8.225 ± 0.1095
pull
Entries 51
Mean 78.48
Std Dev 43.88

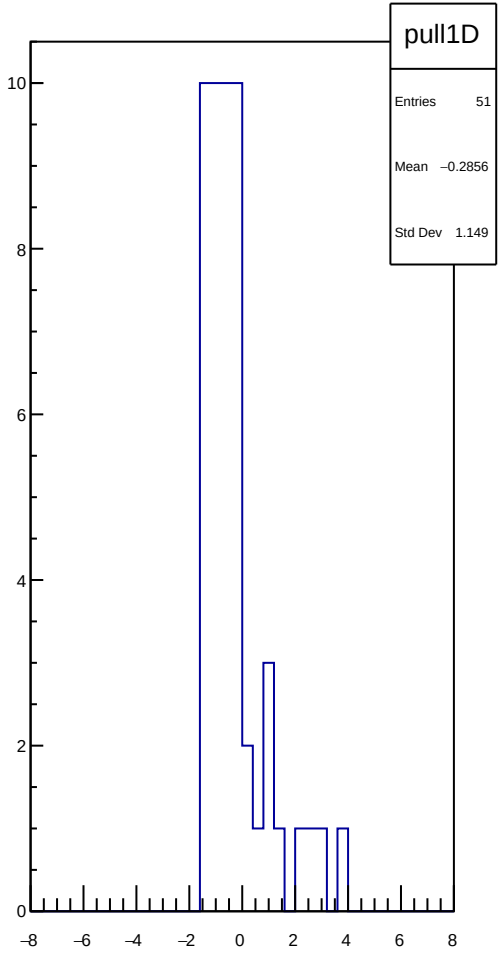

pull1D
Entries 51
Mean 4.833
Std Dev 2.292

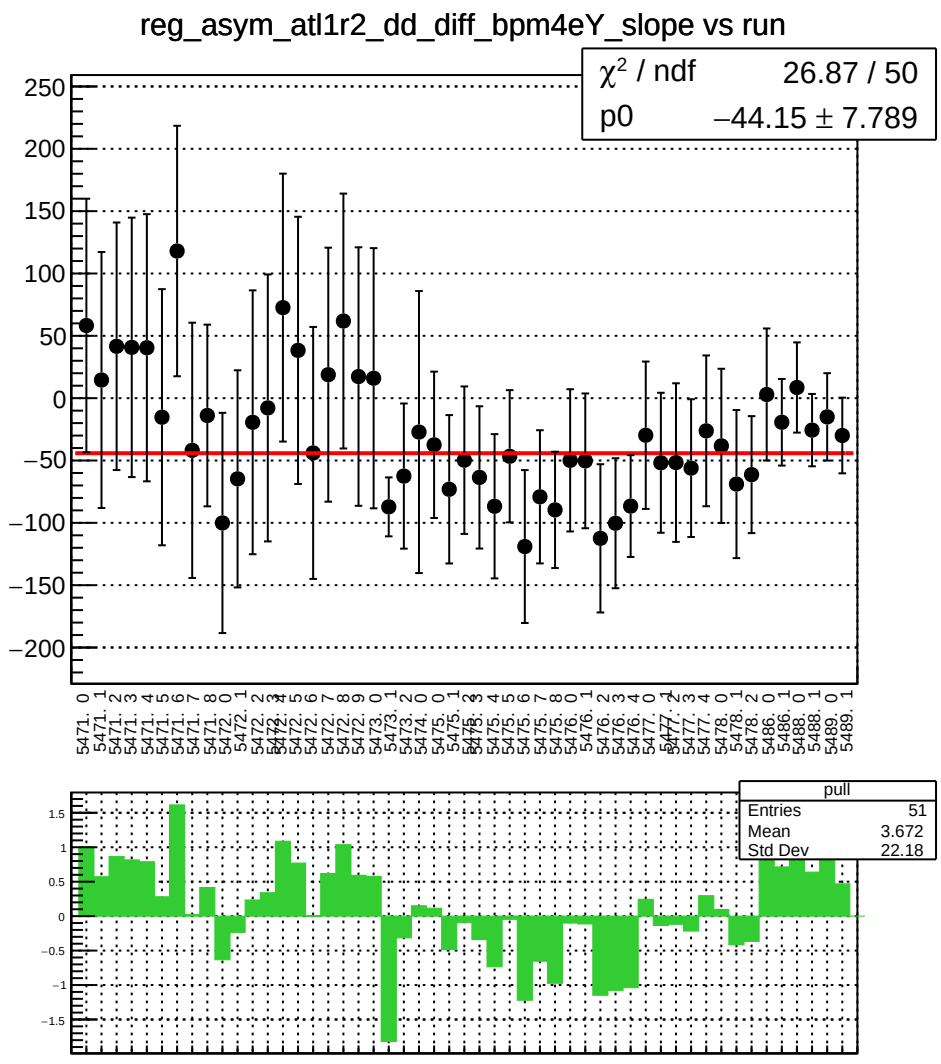

reg_asym_atl1r2_dd_diff_bpm4aX_slope vs run
χ^2 / ndf 43.63 / 50
p0 141.3 ± 11.01
pull
Entries 51
Mean 17.35
Std Dev 17.38

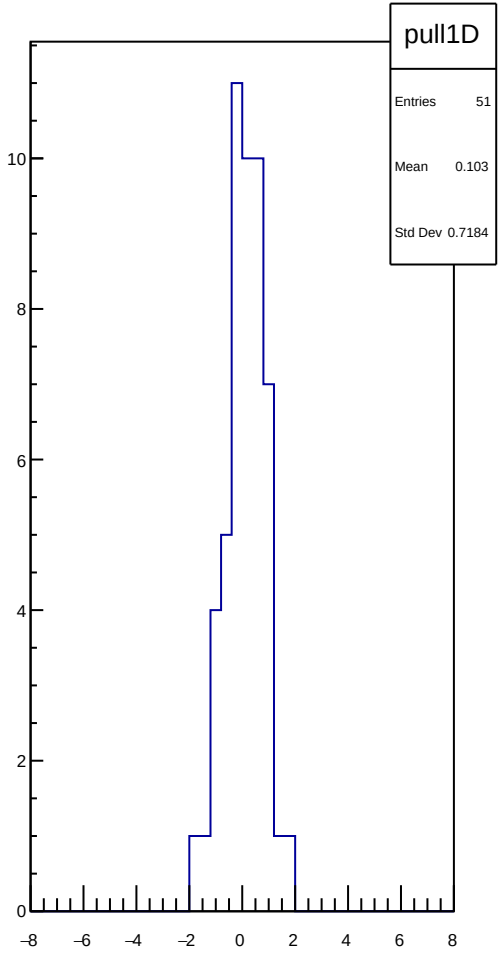

pull1D
Entries 51
Mean 0.2021
Std Dev 0.9026

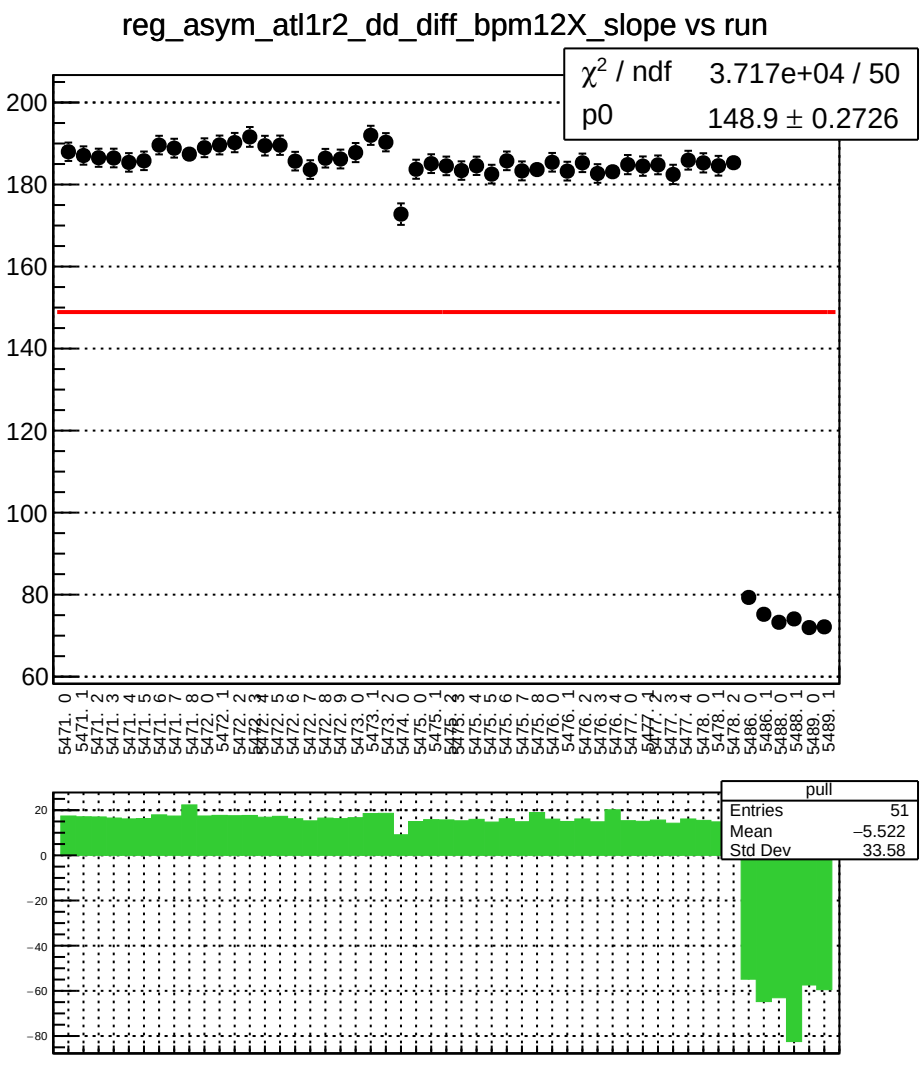

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.83 / 50
p0 −30.32 ± 6.203
pull
Entries 51
Mean 0.02917
Std Dev 14.74
pull1D
Entries 51
Mean −0.1959
Std Dev 0.6548

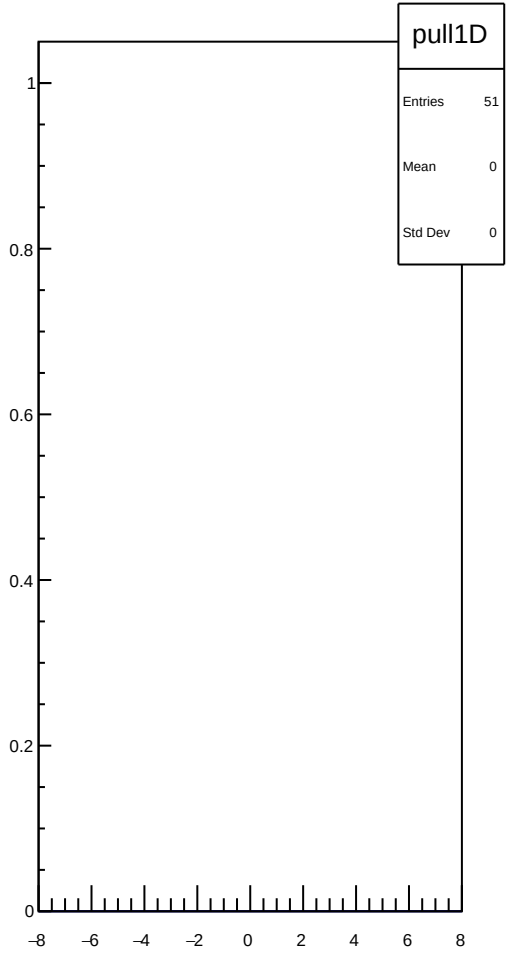

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.49 / 50
p0 −208.3 ± 10.66
pull
Entries 51
Mean 11.89
Std Dev 20.18

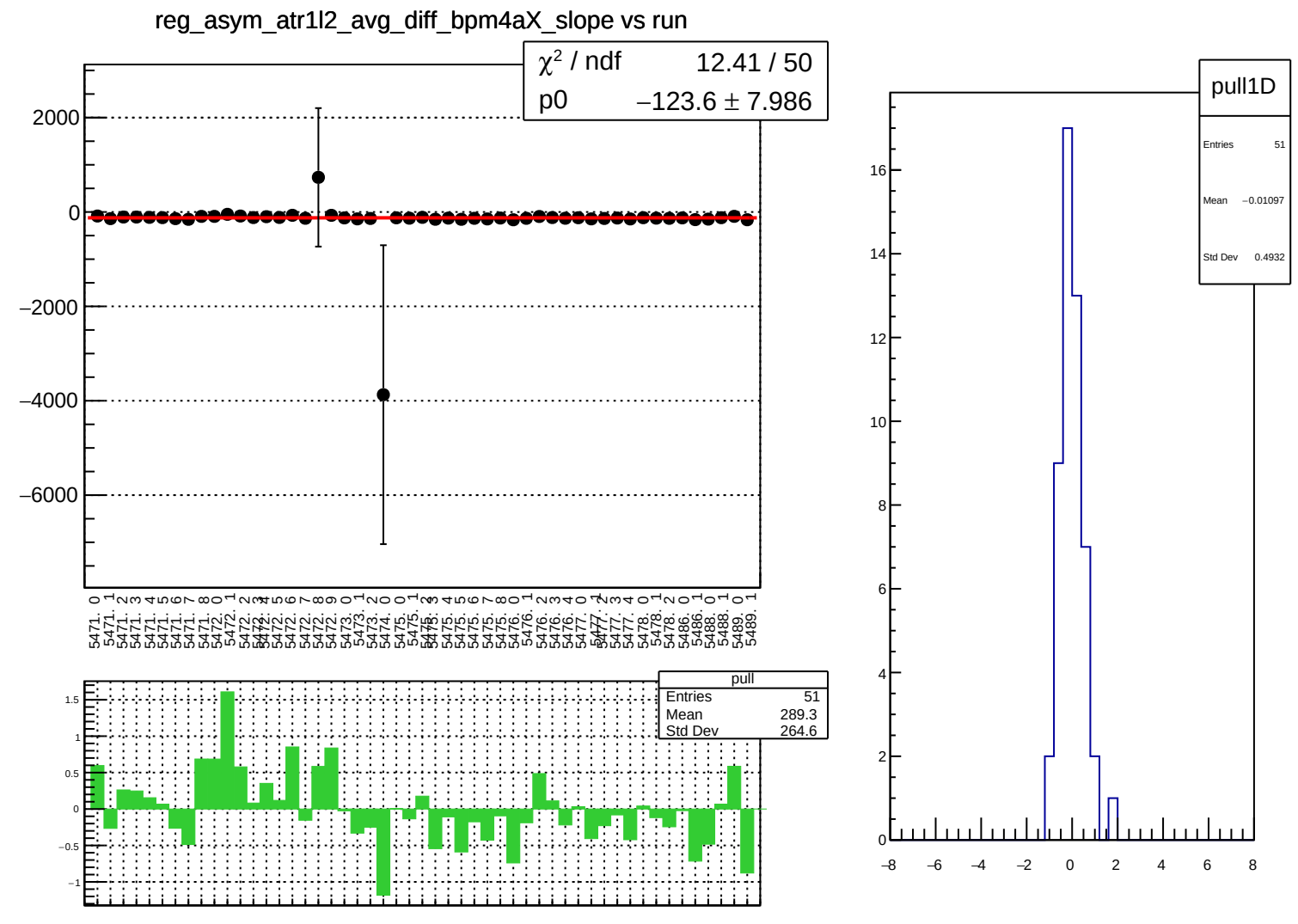

pull1D
Entries 51
Mean −0.2856
Std Dev 1.149

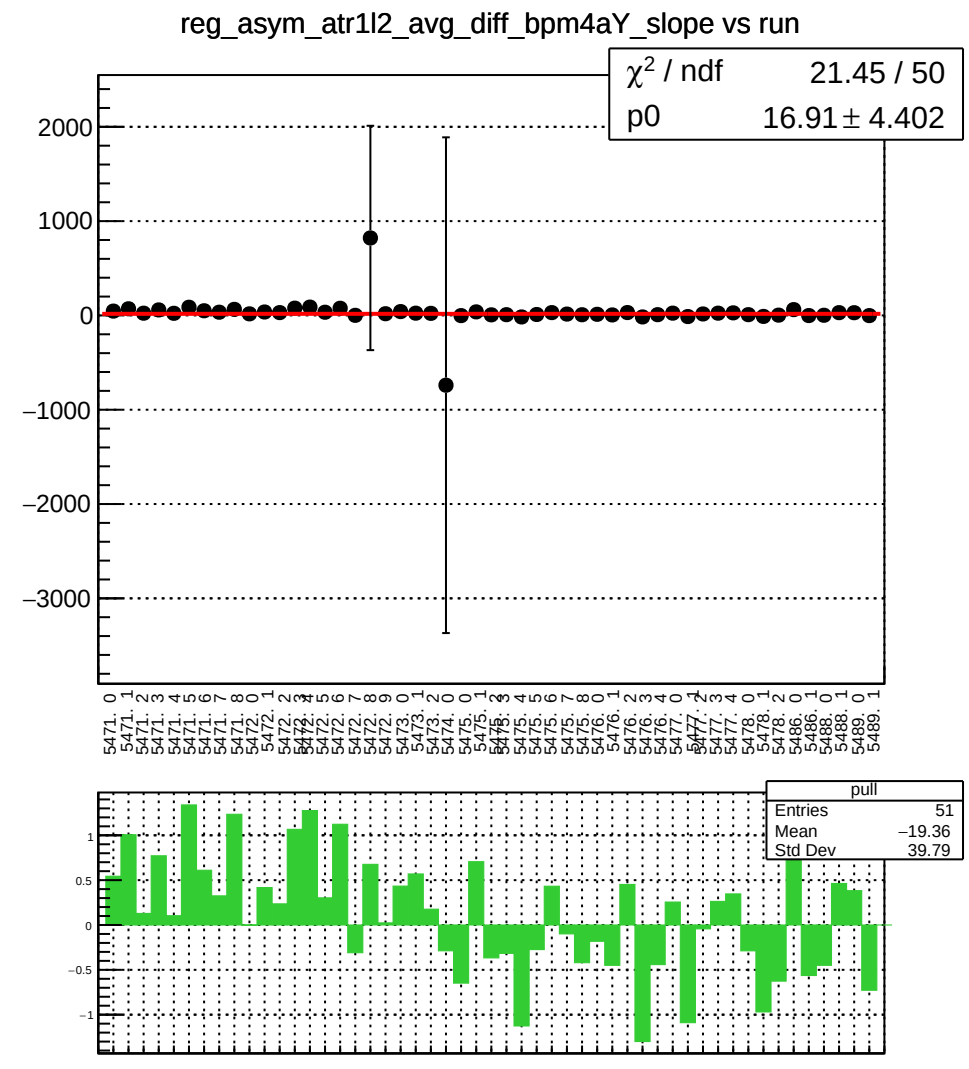

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.87 / 50
p0 −44.15 ± 7.789
pull
Entries 51
Mean 3.672
Std Dev 22.18

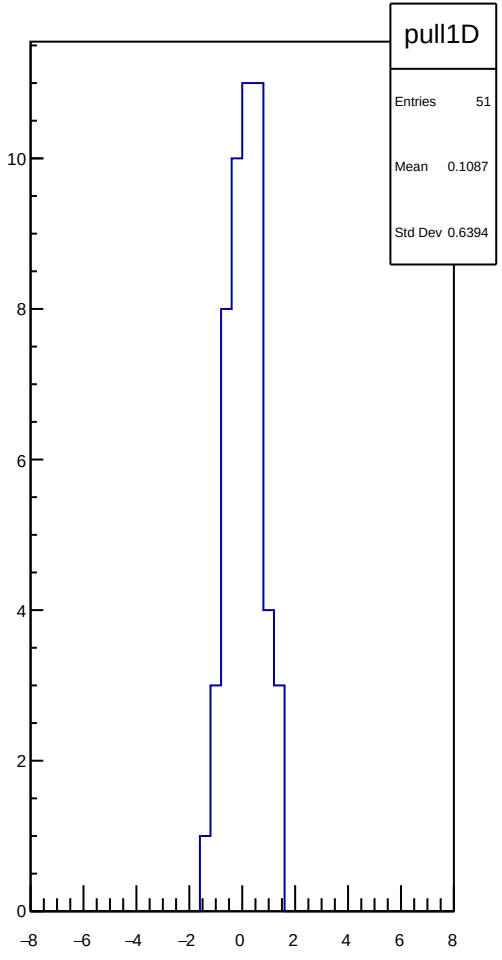

pull1D
Entries 51
Mean 0.103
Std Dev 0.7184

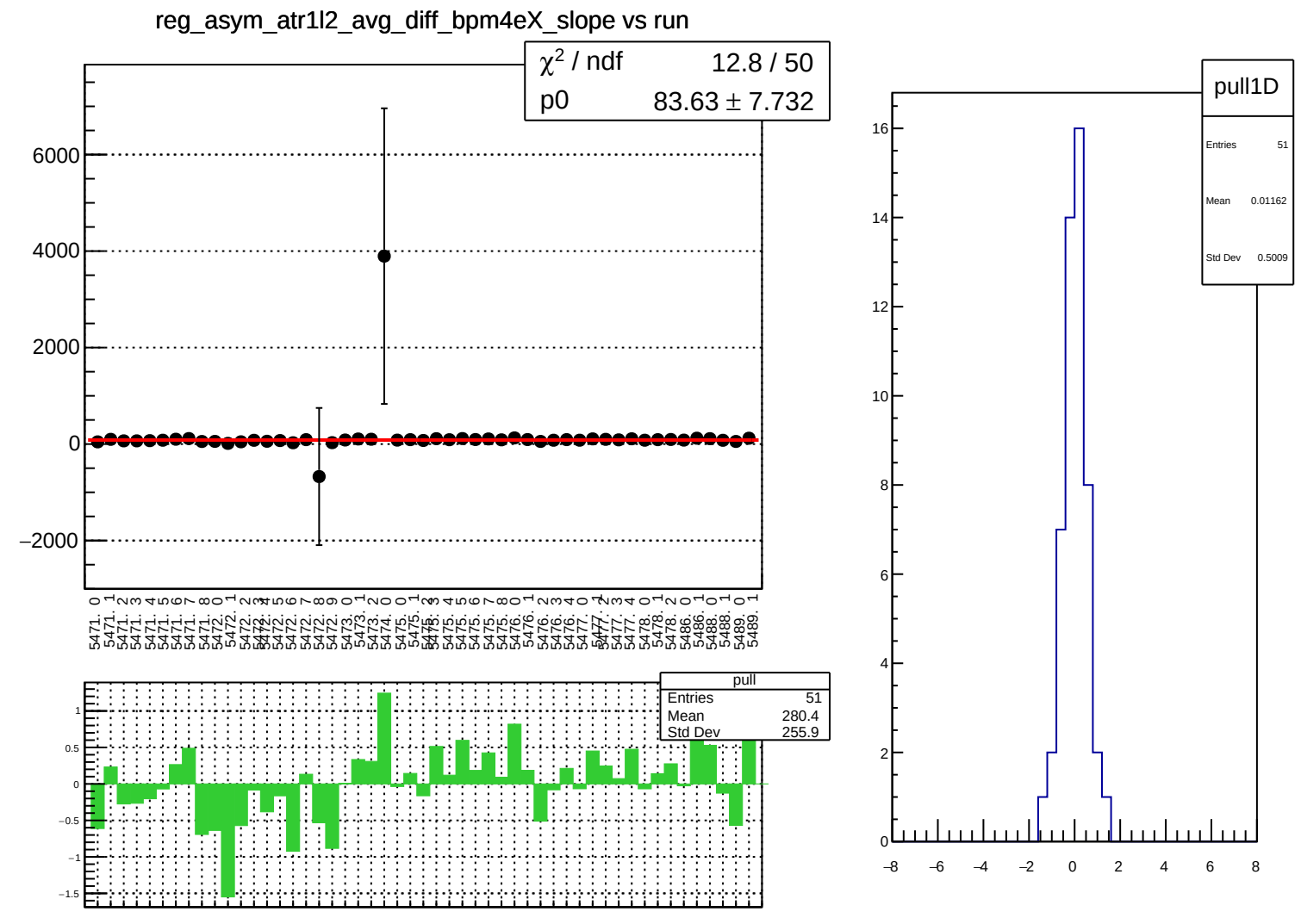

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 3.717e+04 / 50
p0 148.9 ± 0.2726
pull
Entries 51
Mean −5.522
Std Dev 33.58

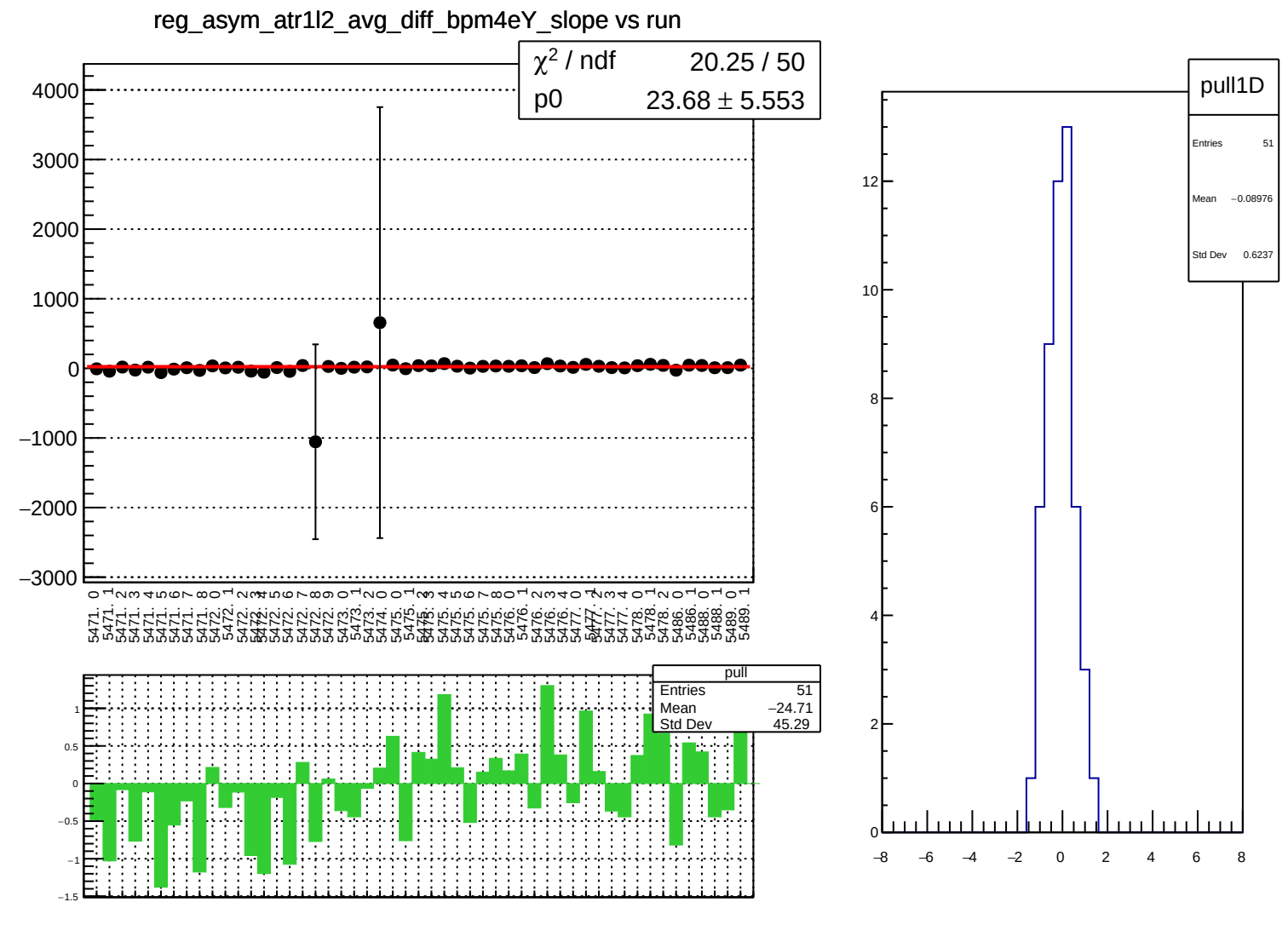

pull1D
Entries 51
Mean 0
Std Dev 0

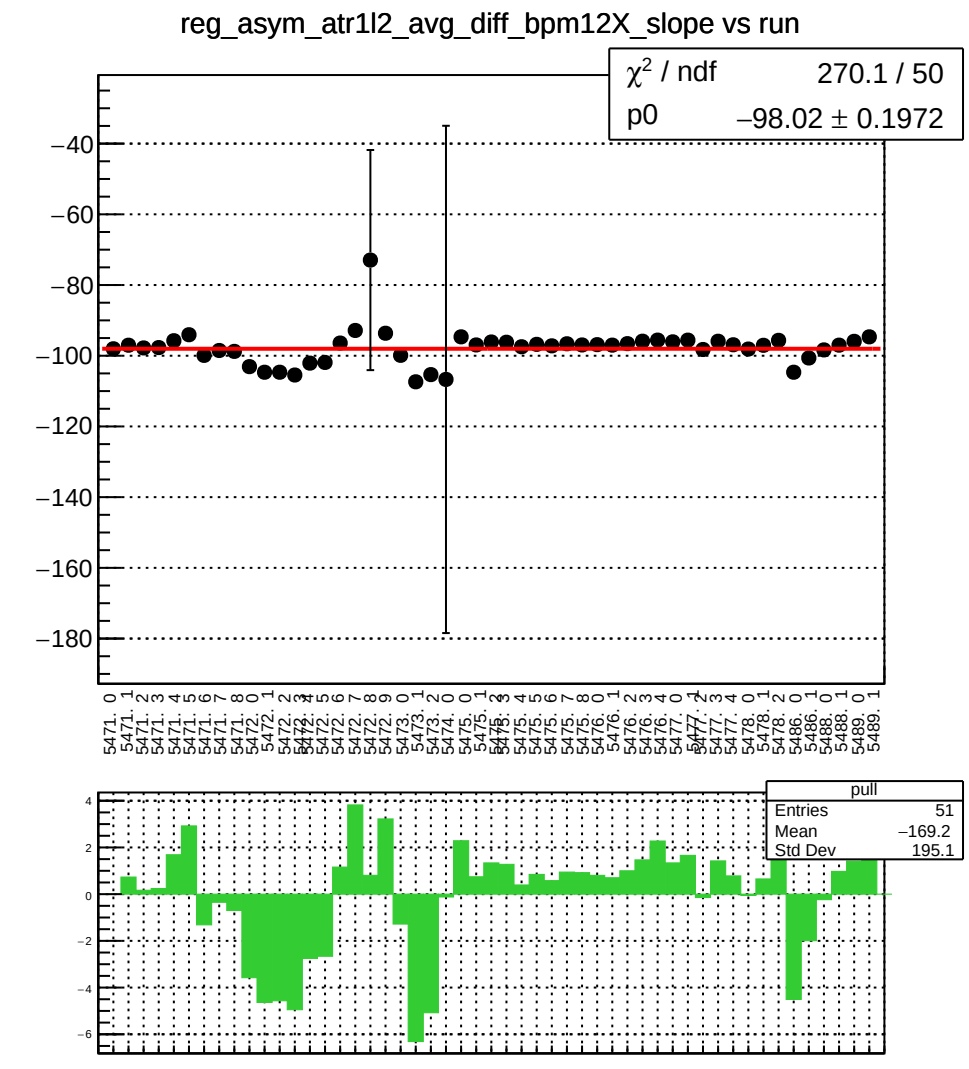

reg_asym_atr1l2_avg_diff_bpm4aX_slope vs run
χ² / ndf 12.41 / 50
p0 −123.6 ± 7.986
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 289.3
Std Dev 264.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean −0.01097
Std Dev 0.4932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

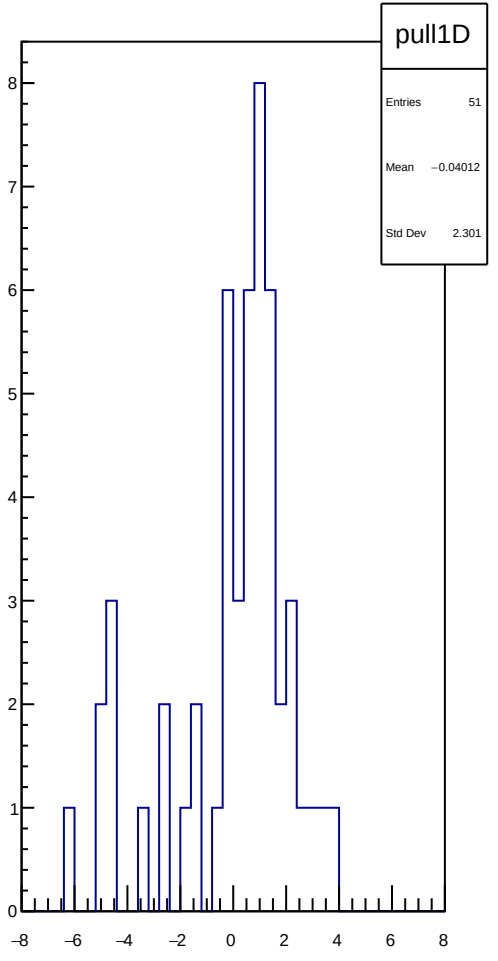

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.45 / 50
p0 16.91 ± 4.402
2000
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −19.36
Std Dev 39.79
1
0.5
0
−0.5
−1

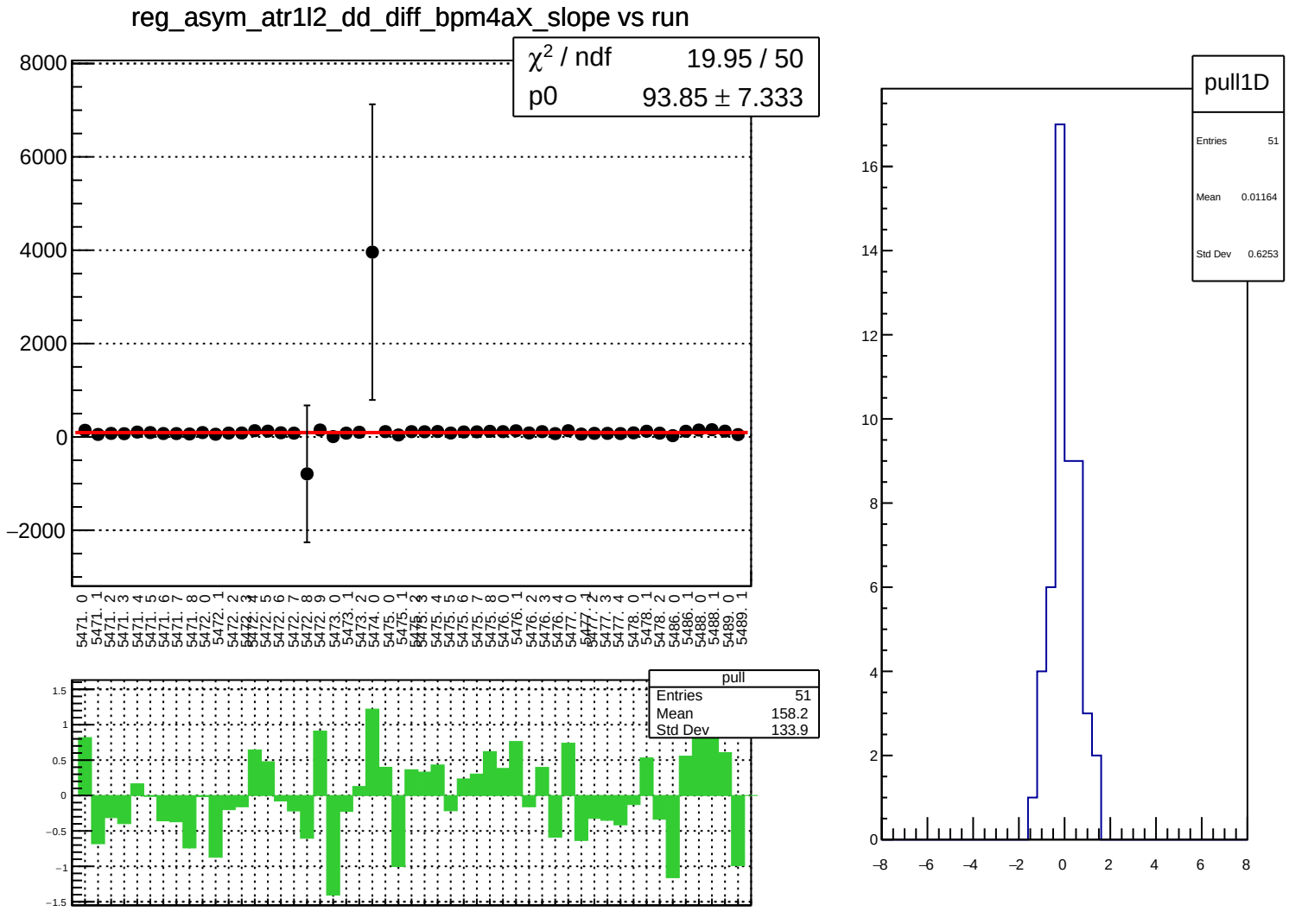

pull1D
Entries 51
Mean 0.1087
Std Dev 0.6394
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

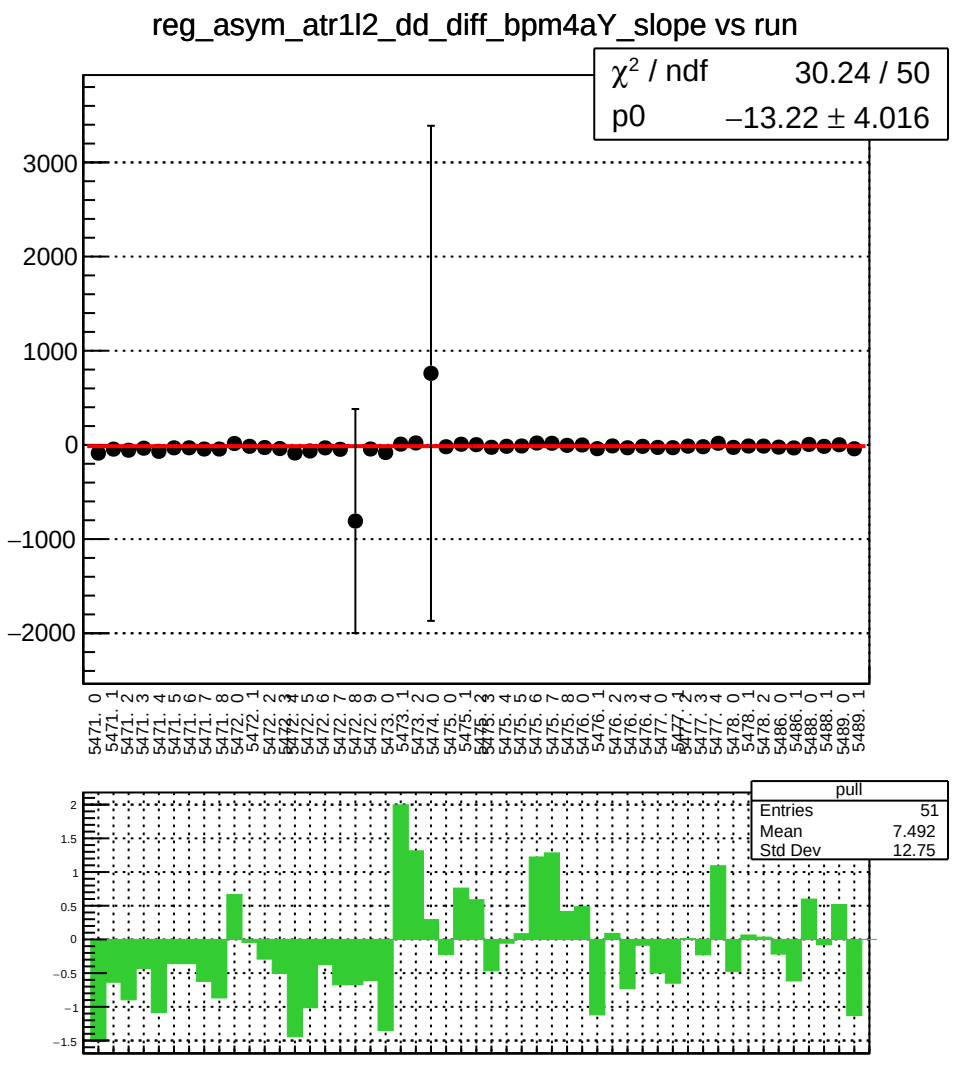

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.8 / 50
p0 83.63 ± 7.732
6000
4000
2000
0
−2000
pull
Entries 51
Mean 280.4
Std Dev 255.9
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean 0.01162
Std Dev 0.5009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

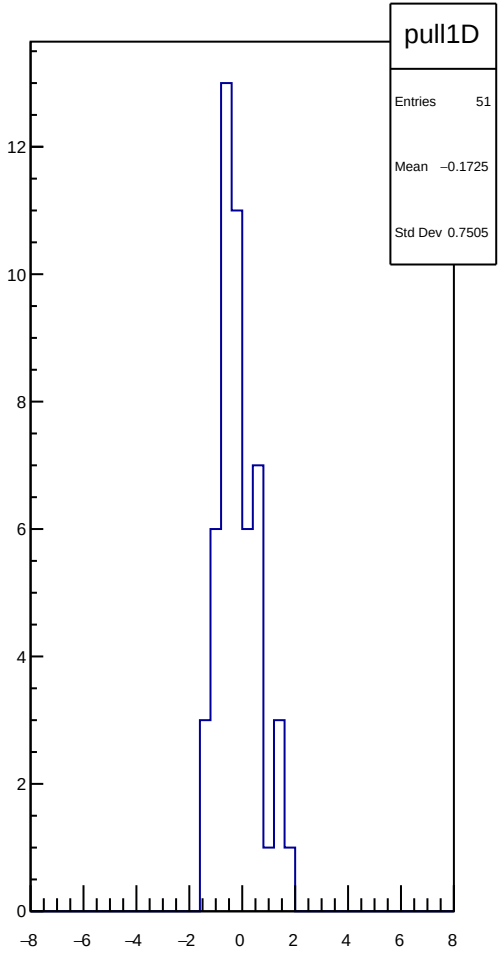

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.25 / 50
p0 23.68 ± 5.553
pull
Entries 51
Mean −24.71
Std Dev 45.29
pull1D
Entries 51
Mean −0.08976
Std Dev 0.6237

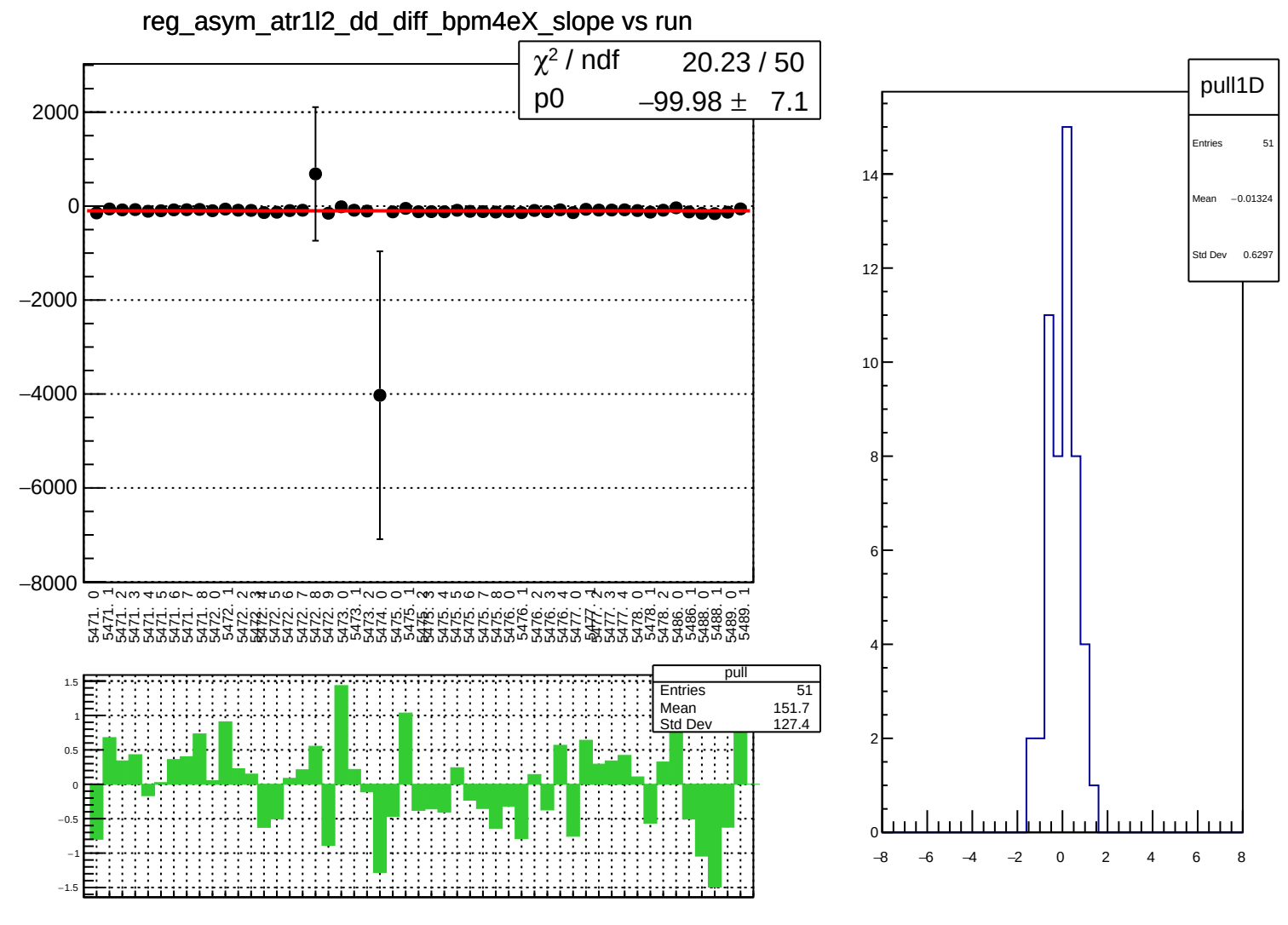

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 270.1 / 50
p0 −98.02 ± 0.1972
pull
Entries 51
Mean −169.2
Std Dev 195.1

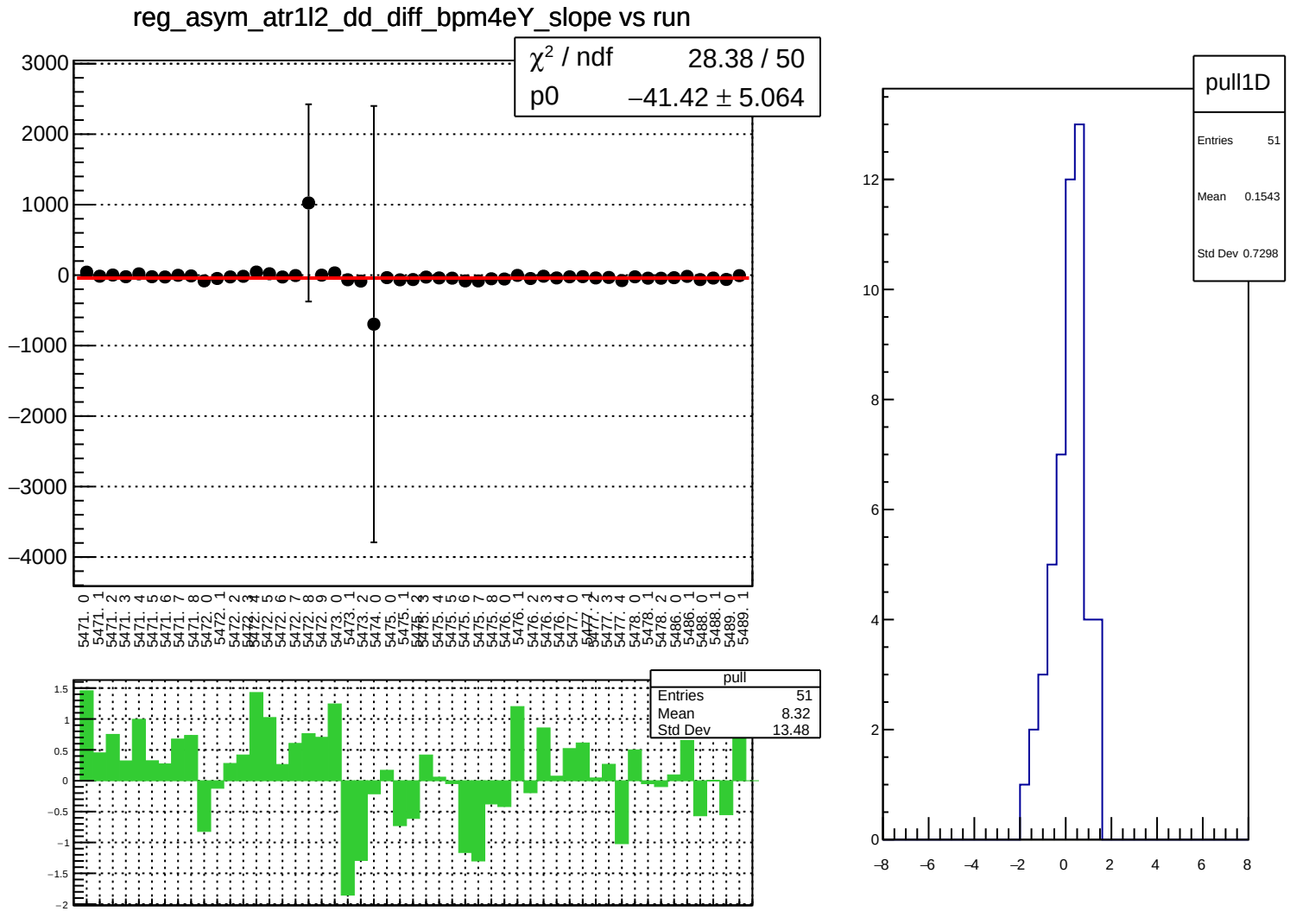

pull1D
Entries 51
Mean −0.04012
Std Dev 2.301

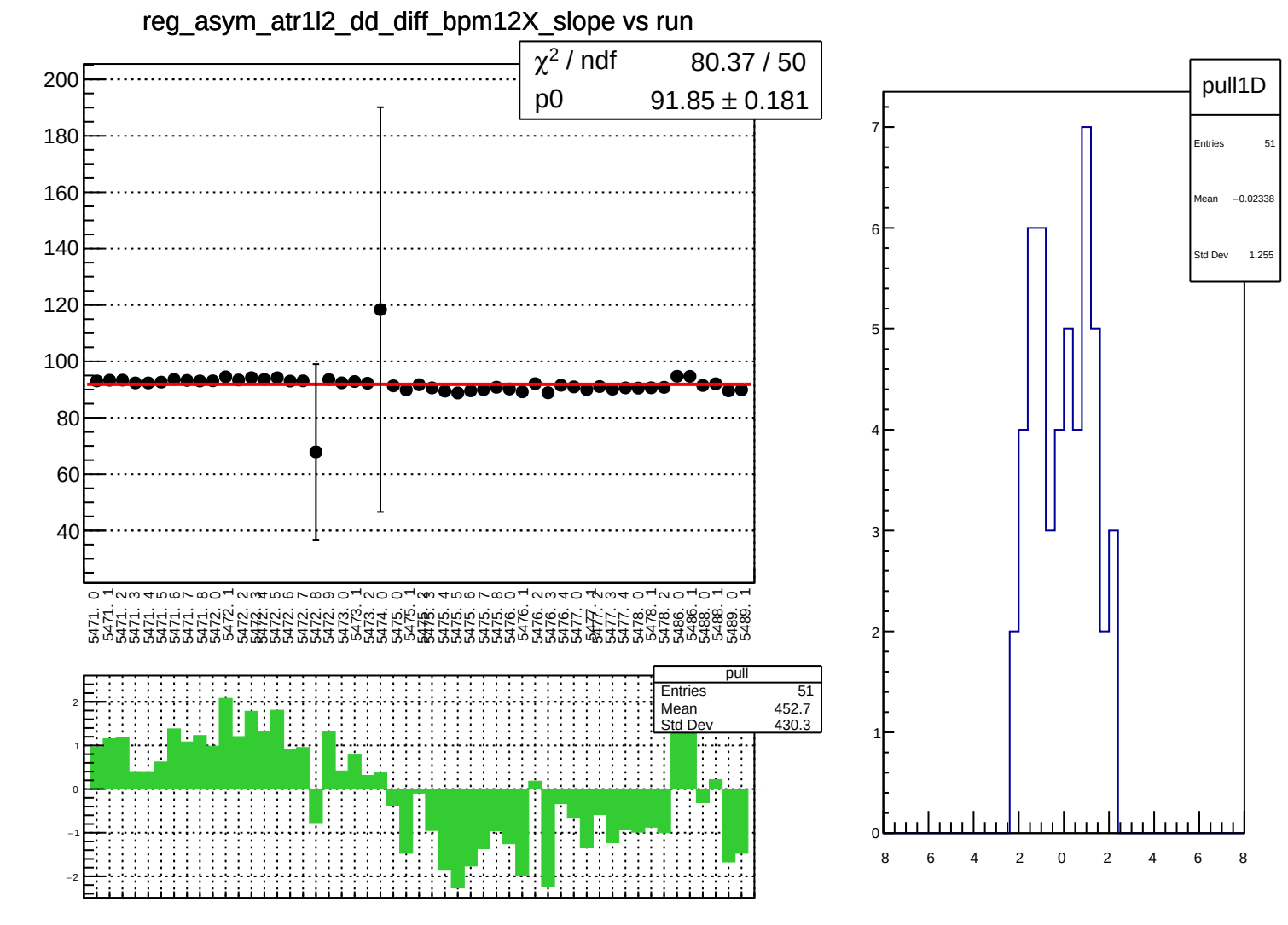

reg_asym_atr1l2_dd_diff_bpm4aX_slope vs run
χ² / ndf 19.95 / 50
p0 93.85 ± 7.333
8000
6000
4000
2000
0
−2000
pull
Entries 51
Mean 158.2
Std Dev 133.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean 0.01164
Std Dev 0.6253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

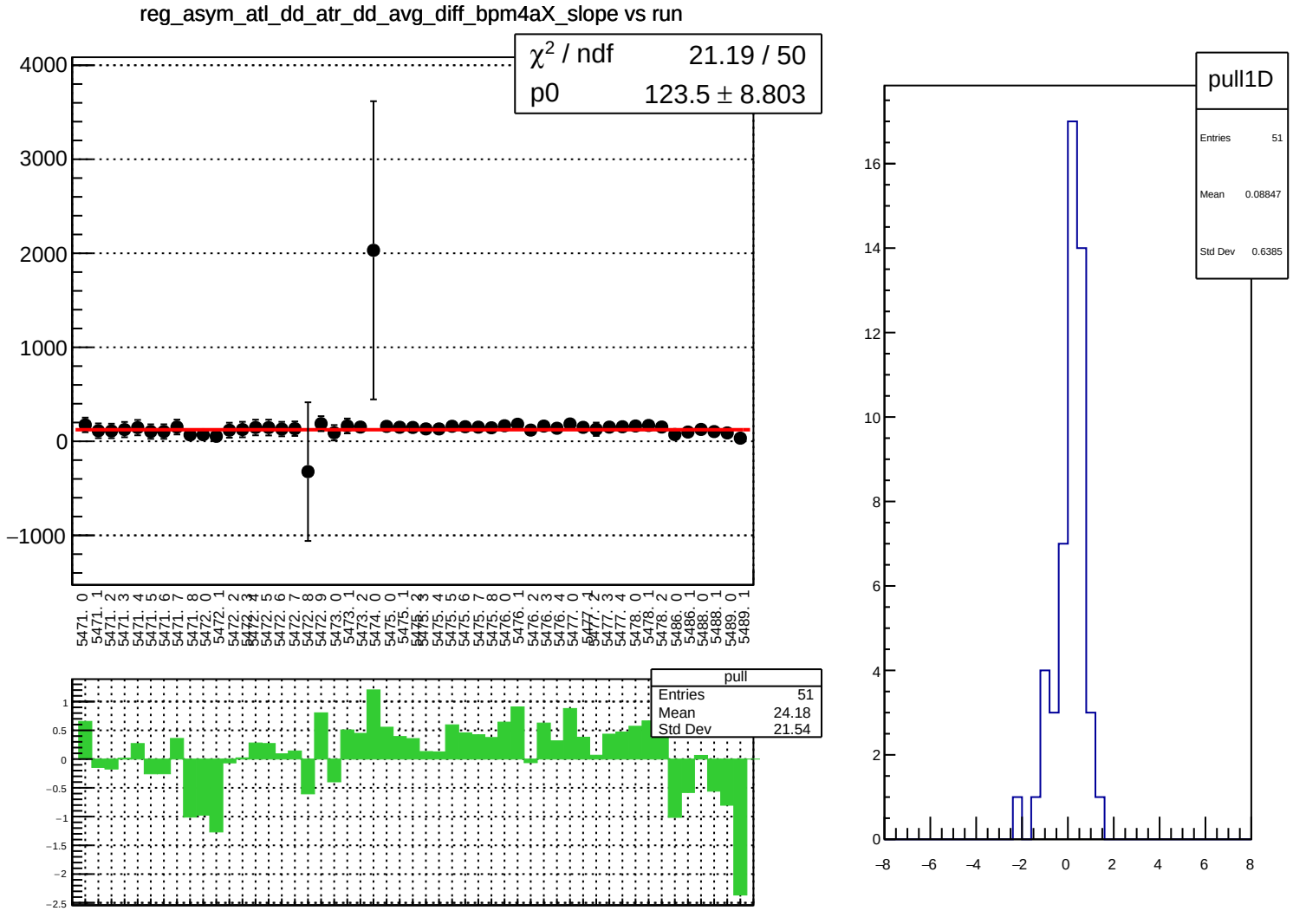

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.24 / 50
p0 −13.22 ± 4.016
3000
2000
1000
0
−1000
−2000
pull
Entries 51
Mean 7.492
Std Dev 12.75
2
1.5
1
0.5
0
−0.5
−1
−1.5

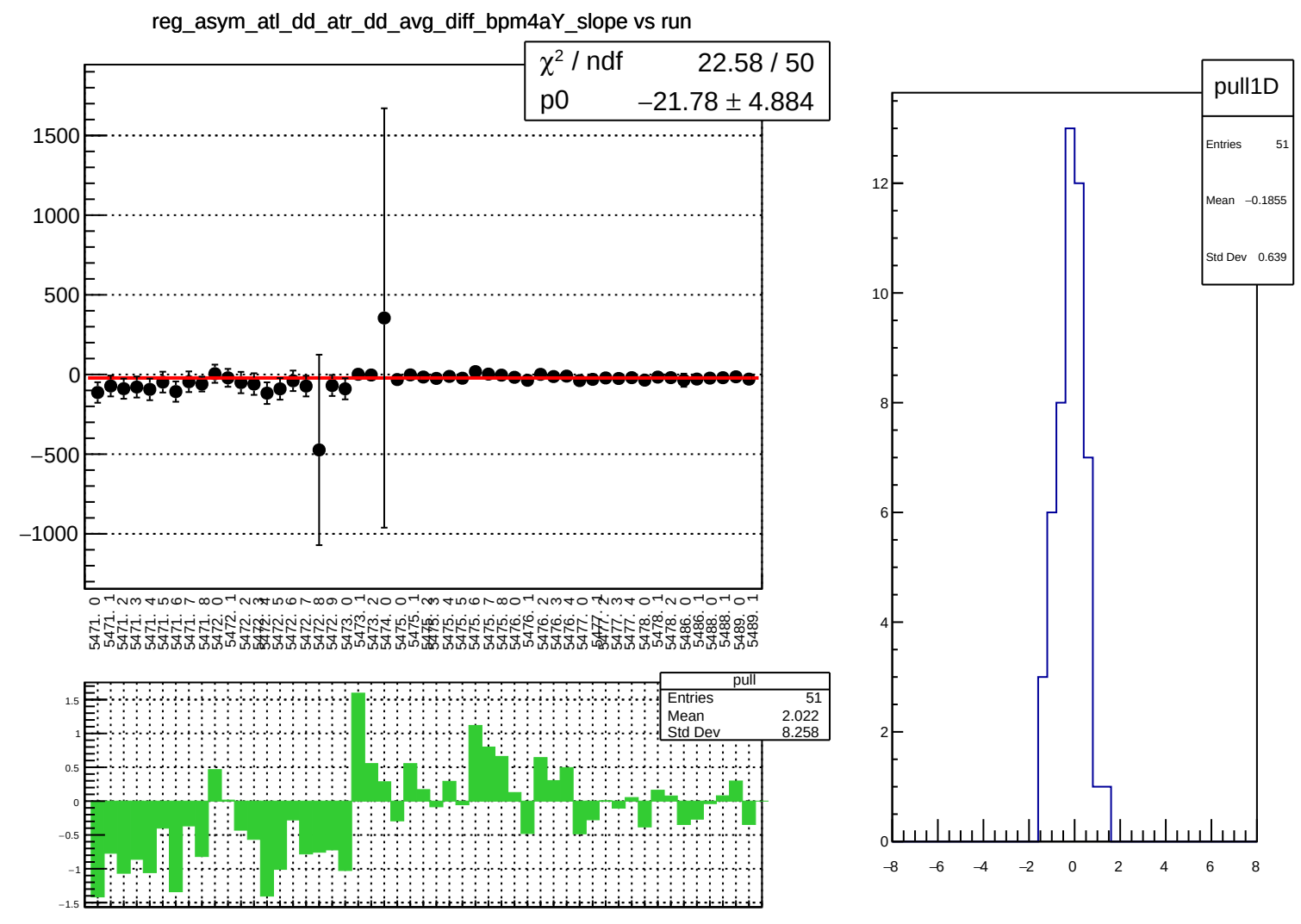

pull1D
Entries 51
Mean −0.1725
Std Dev 0.7505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

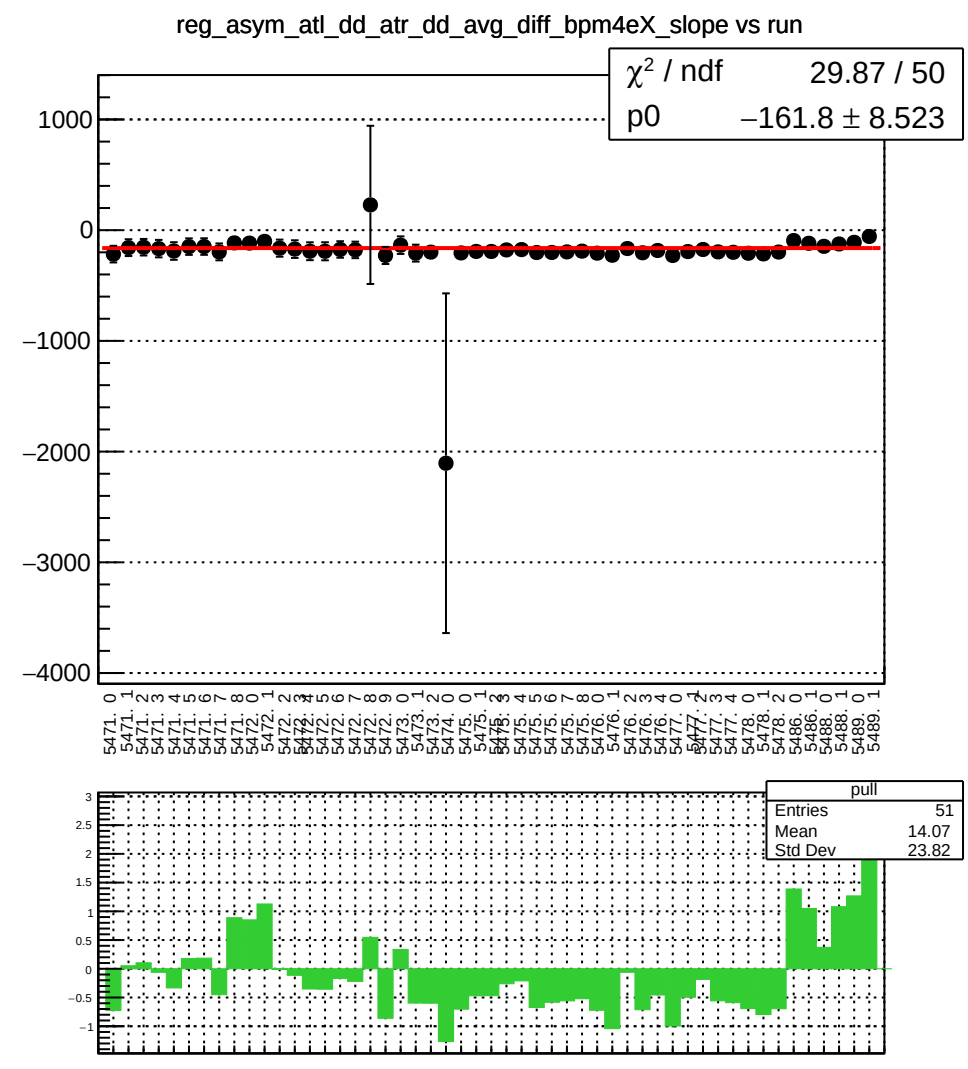

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.23 / 50
p0 −99.98 ± 7.1
pull
Entries 51
Mean 151.7
Std Dev 127.4
pull1D
Entries 51
Mean −0.01324
Std Dev 0.6297

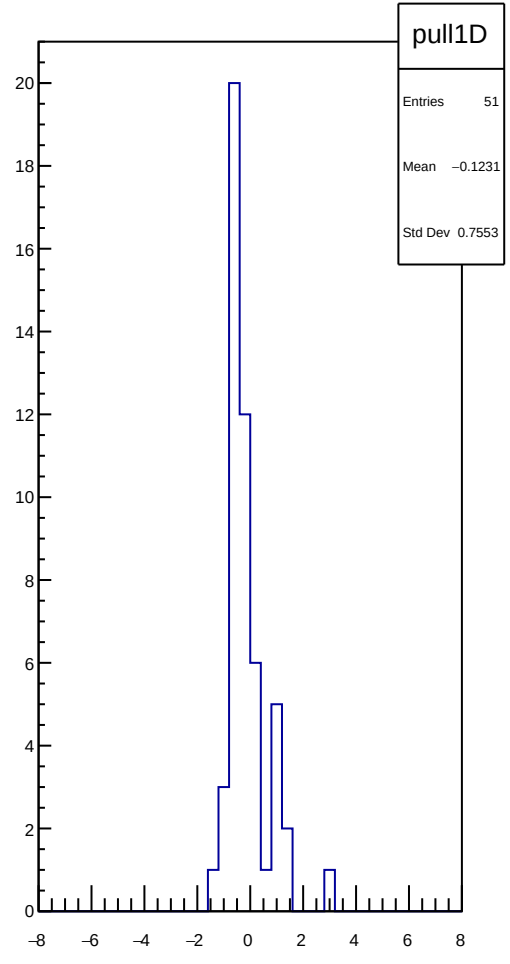

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.38 / 50
p0 −41.42 ± 5.064
pull
Entries 51
Mean 8.32
Std Dev 13.48
pull1D
Entries 51
Mean 0.1543
Std Dev 0.7298

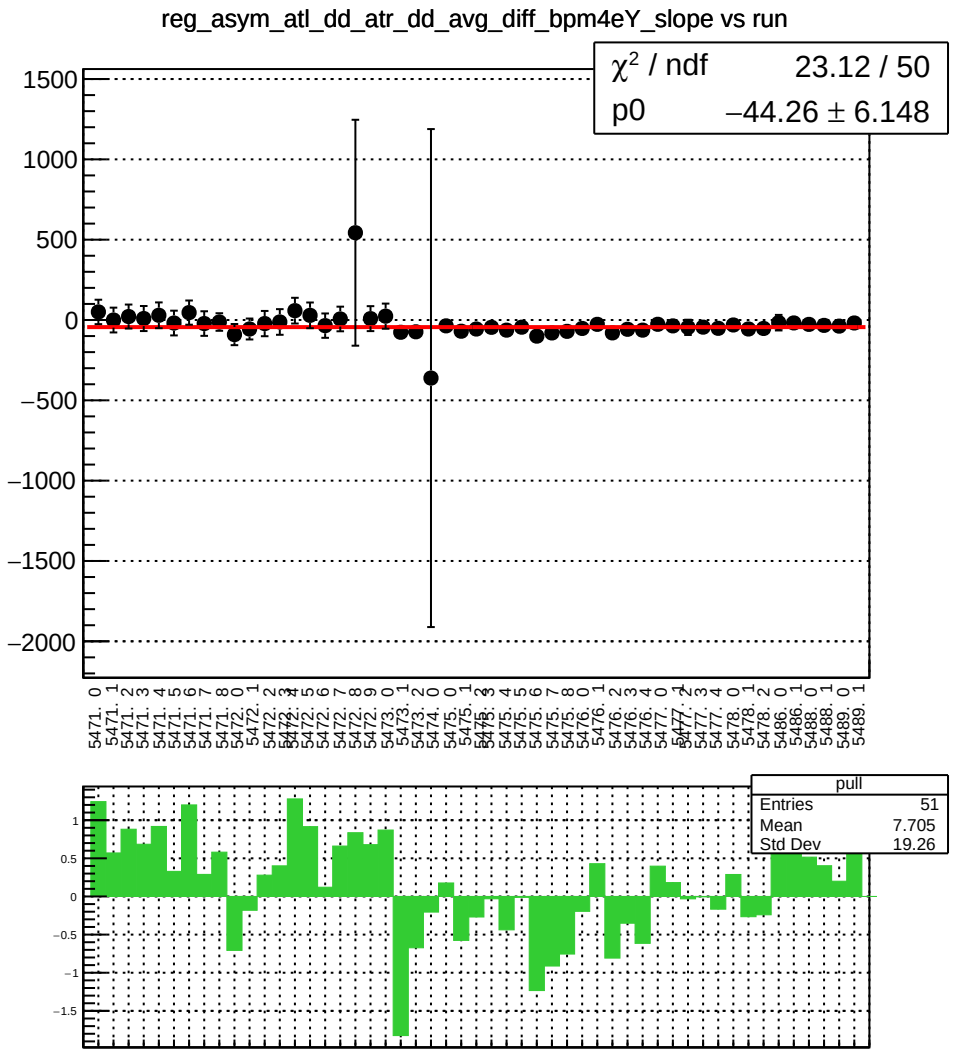

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 80.37 / 50
p0 91.85 ± 0.181
pull
Entries 51
Mean 452.7
Std Dev 430.3
pull1D
Entries 51
Mean −0.02338
Std Dev 1.255

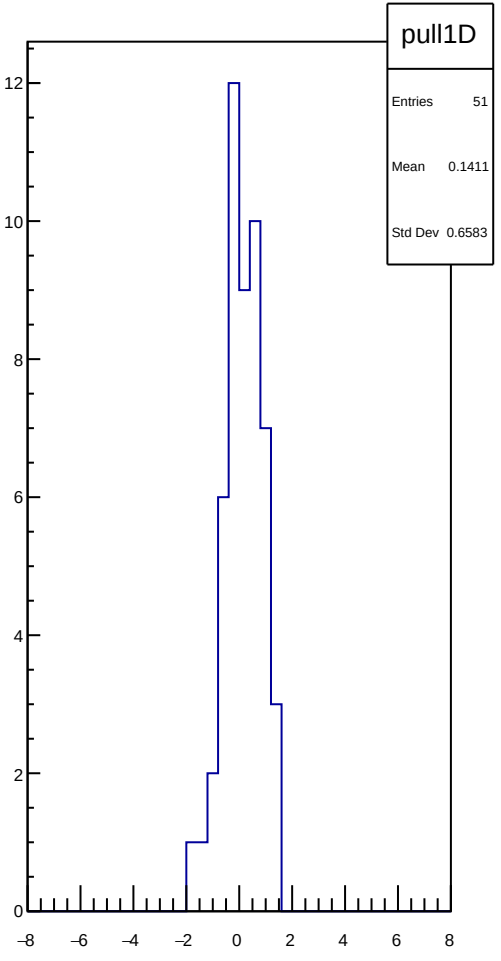

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aX_slope vs run
χ² / ndf 21.19 / 50
p0 123.5 ± 8.803
4000
3000
2000
1000
0
−1000
pull
Entries 51
Mean 24.18
Std Dev 21.54
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 51
Mean 0.08847
Std Dev 0.6385
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

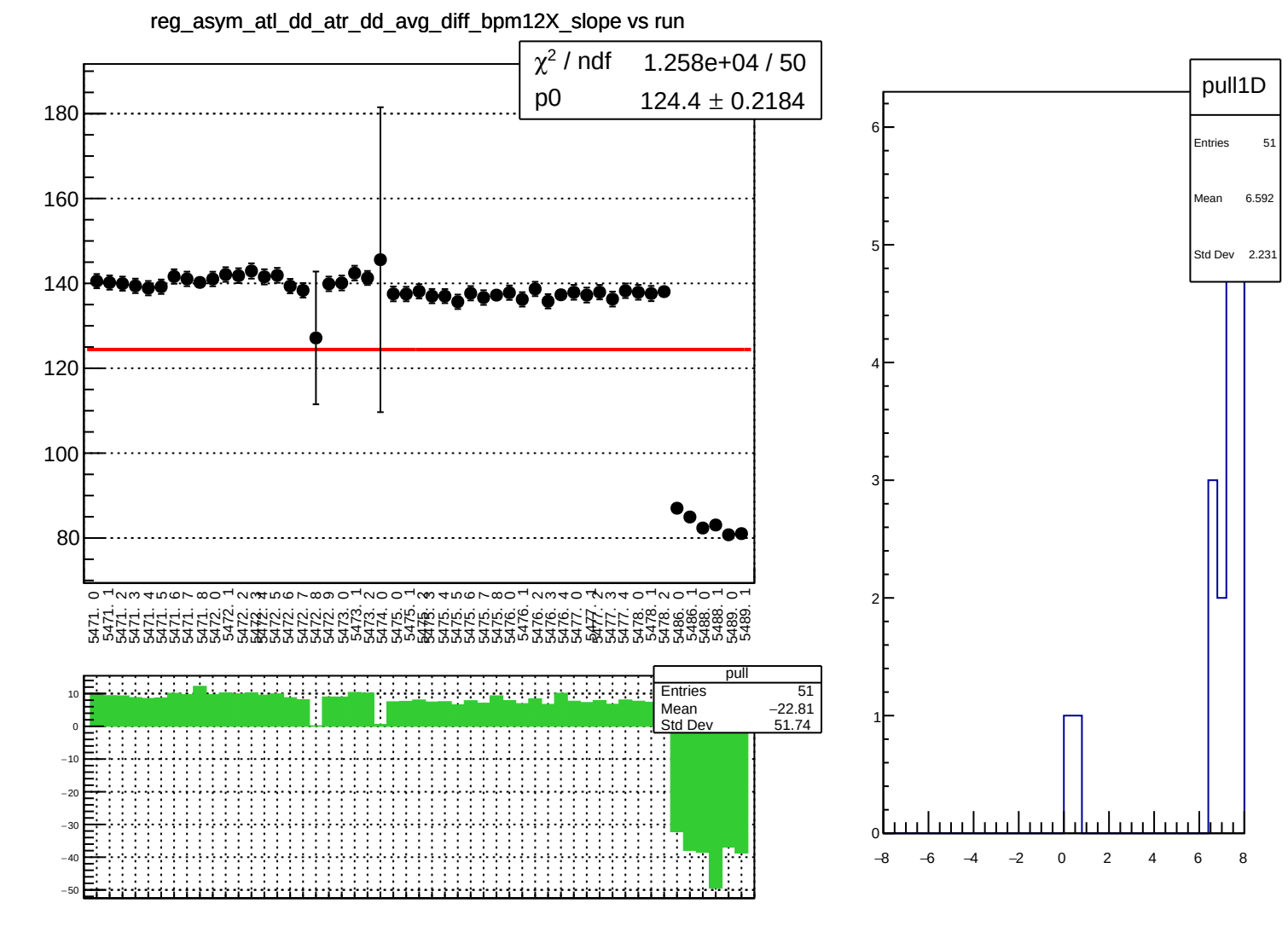

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.58 / 50
p0 −21.78 ± 4.884
1500
1000
500
0
−500
−1000
pull
Entries 51
Mean 2.022
Std Dev 8.258
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 51
Mean −0.1855
Std Dev 0.639
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

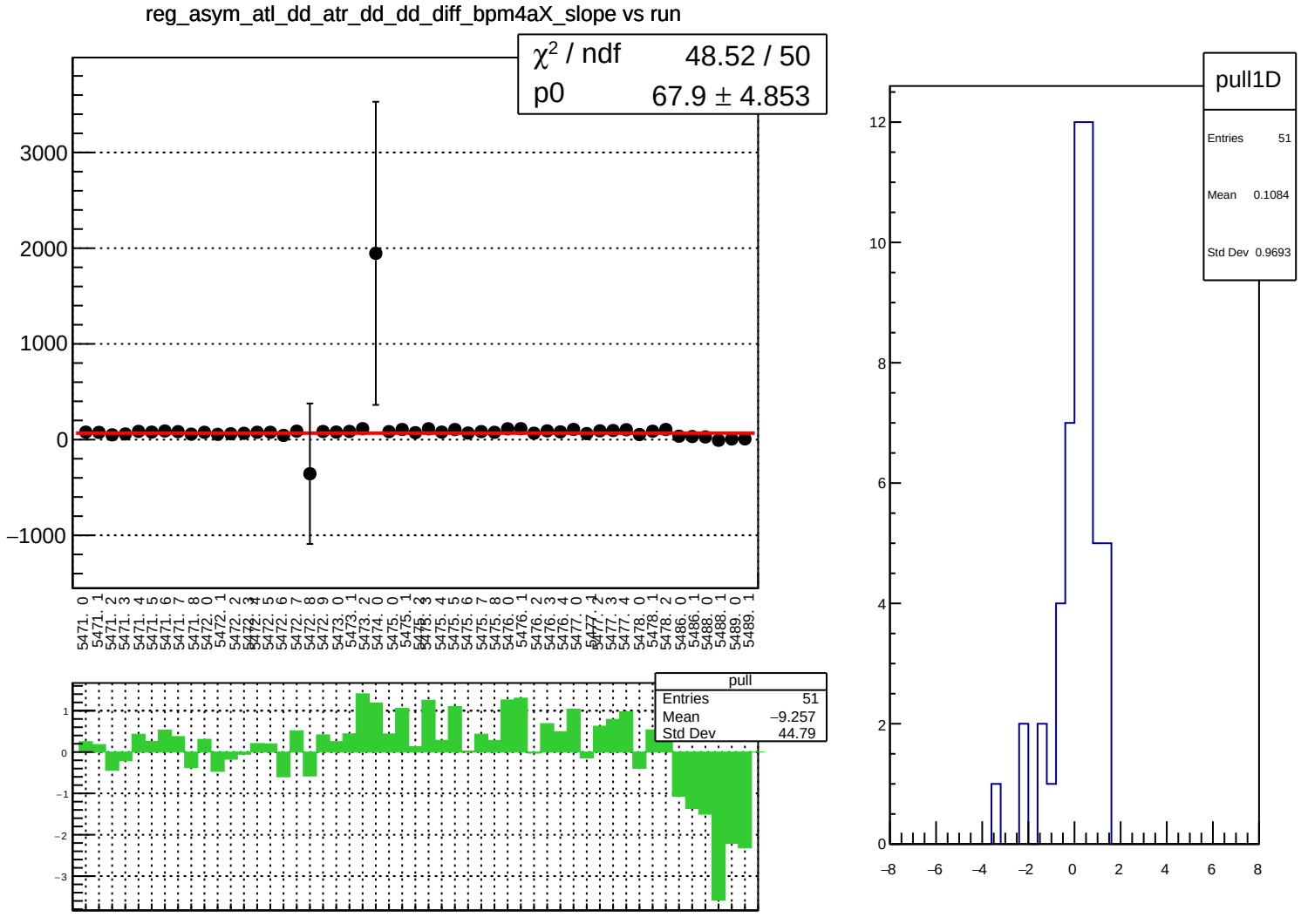

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 29.87 / 50
p0 −161.8 ± 8.523
1000
0
−1000
−2000
−3000
−4000
pull
Entries 51
Mean 14.07
Std Dev 23.82
3
2.5
2
1.5
1
0.5
0
−0.5
−1

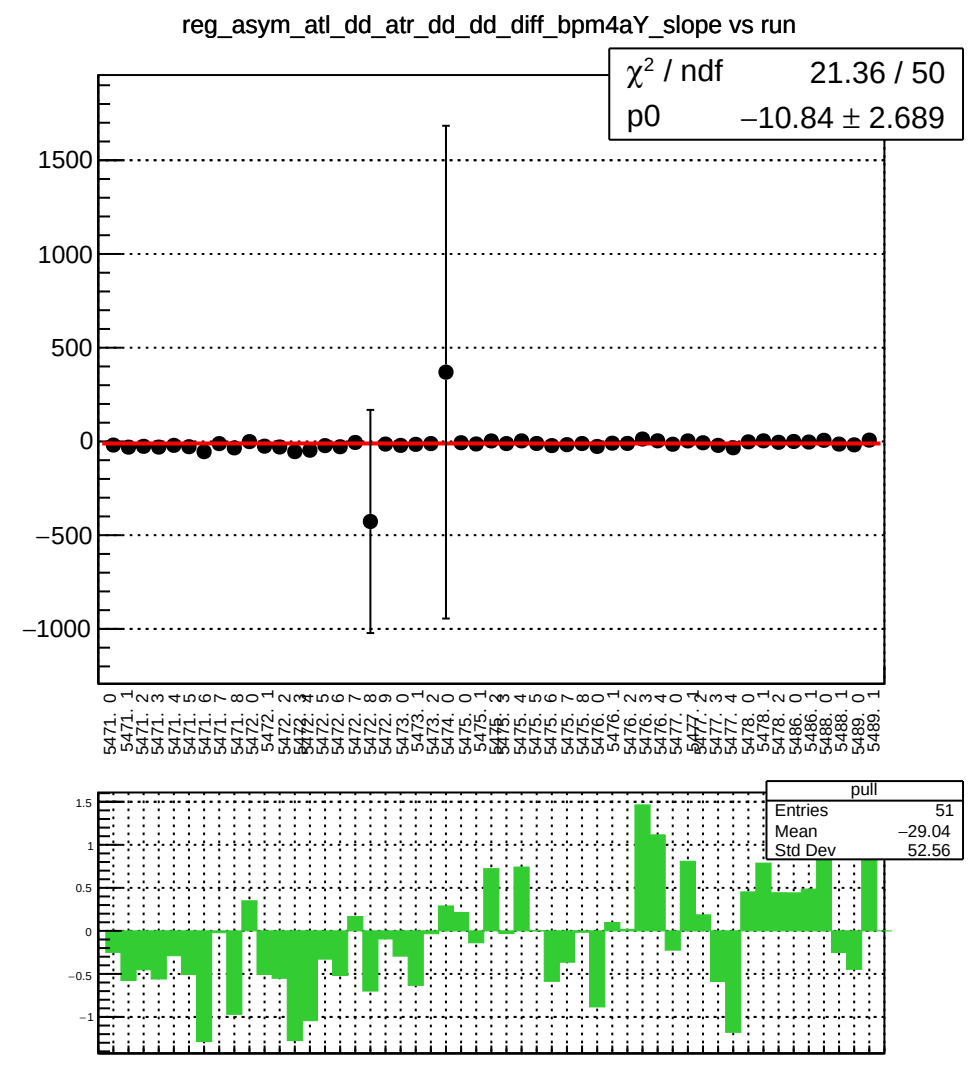

pull1D
Entries 51
Mean −0.1231
Std Dev 0.7553
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

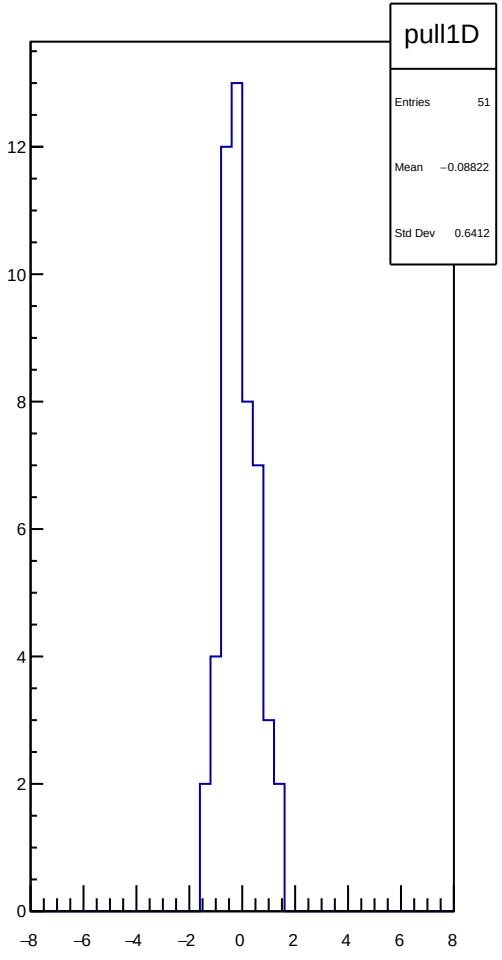

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.12 / 50
p0 −44.26 ± 6.148
pull
Entries 51
Mean 7.705
Std Dev 19.26

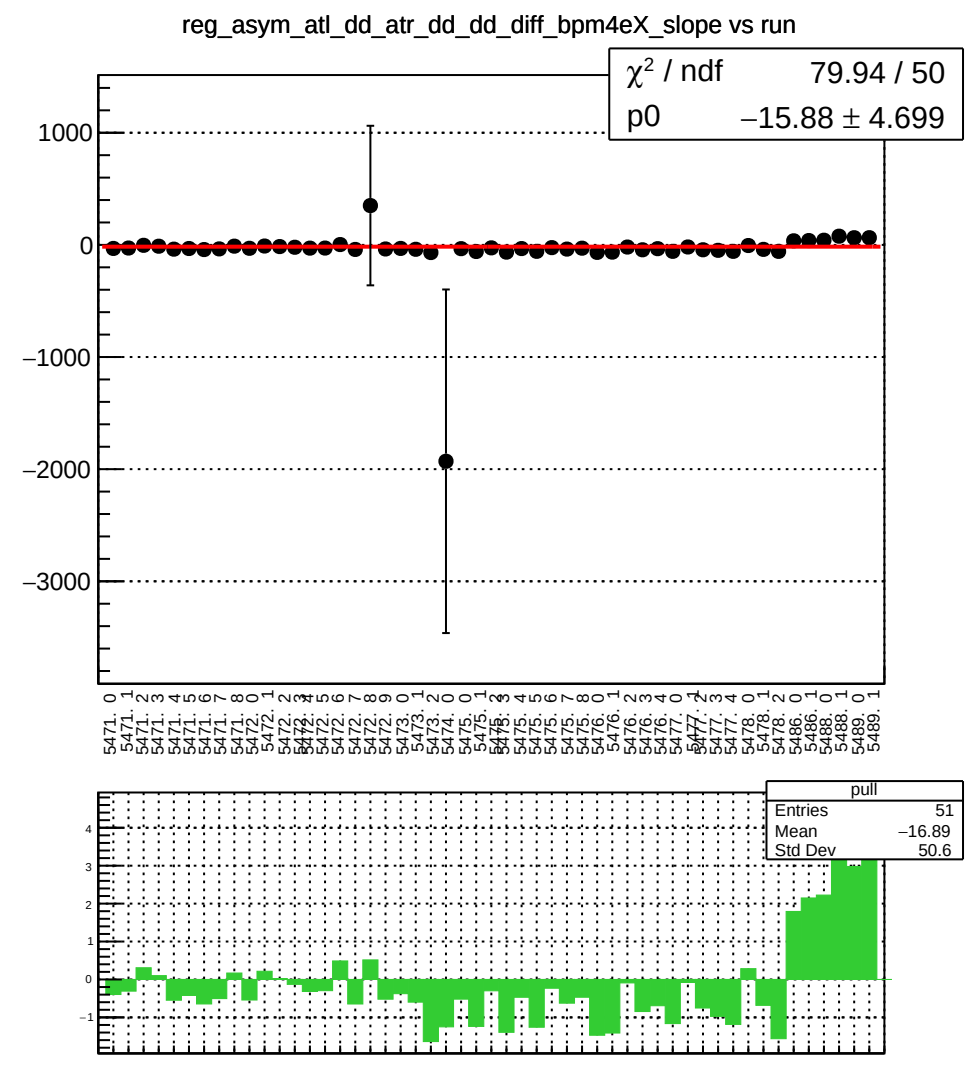

pull1D
Entries 51
Mean 0.1411
Std Dev 0.6583

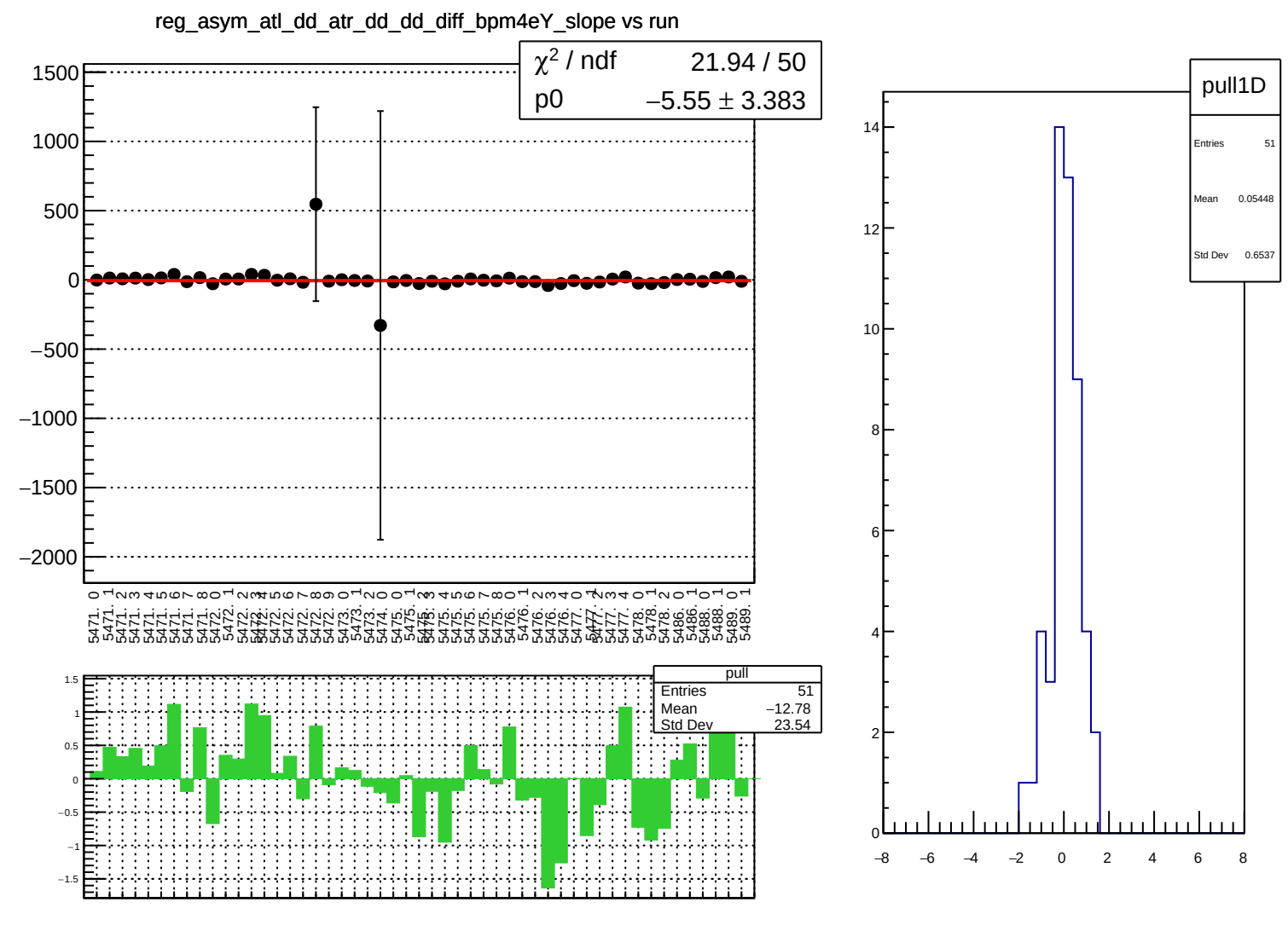

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 1.258e+04 / 50
p0 124.4 ± 0.2184
180
160
140
120
100
80
pull
Entries 51
Mean −22.81
Std Dev 51.74
10
0
−10
−20
−30
−40
−50
pull1D
Entries 51
Mean 6.592
Std Dev 2.231
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

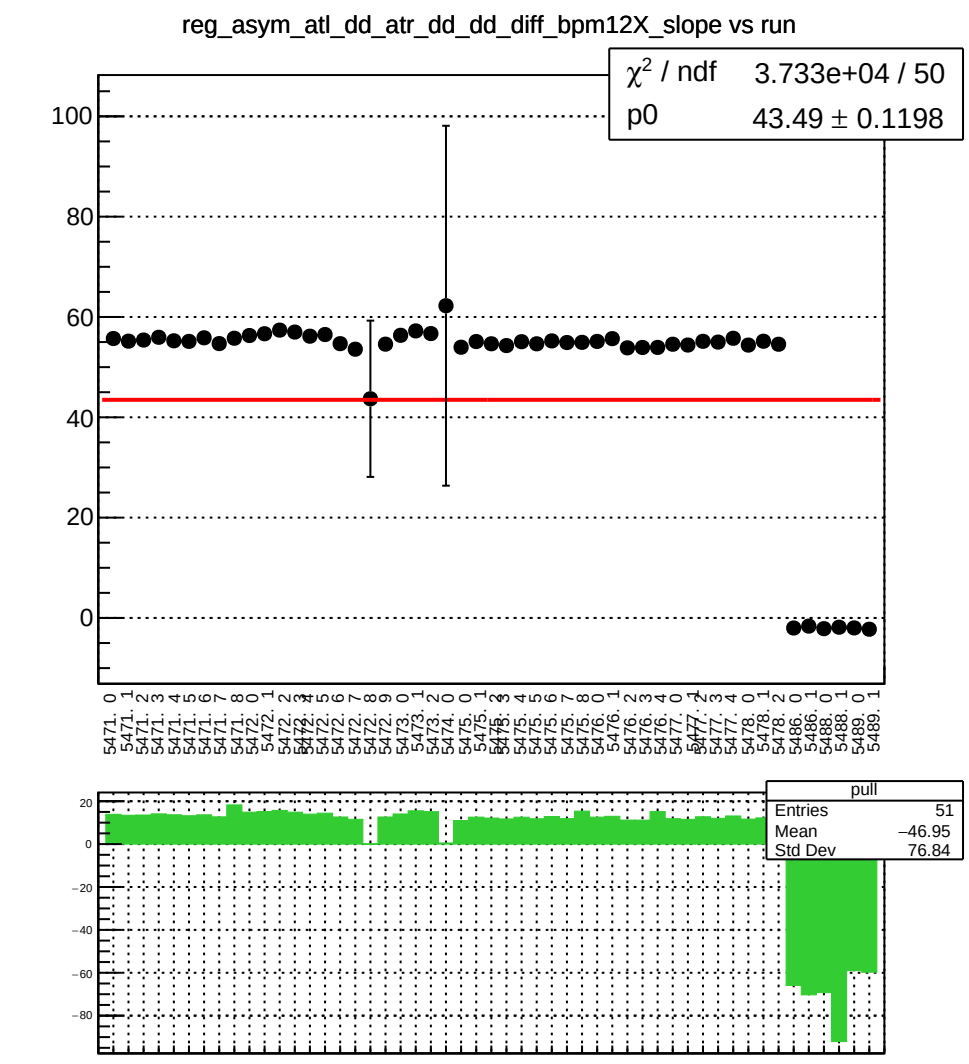

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aX_slope vs run
χ² / ndf 48.52 / 50
p0 67.9 ± 4.853
3000
2000
1000
0
−1000
pull
Entries 51
Mean −9.257
Std Dev 44.79
pull1D
Entries 51
Mean 0.1084
Std Dev 0.9693

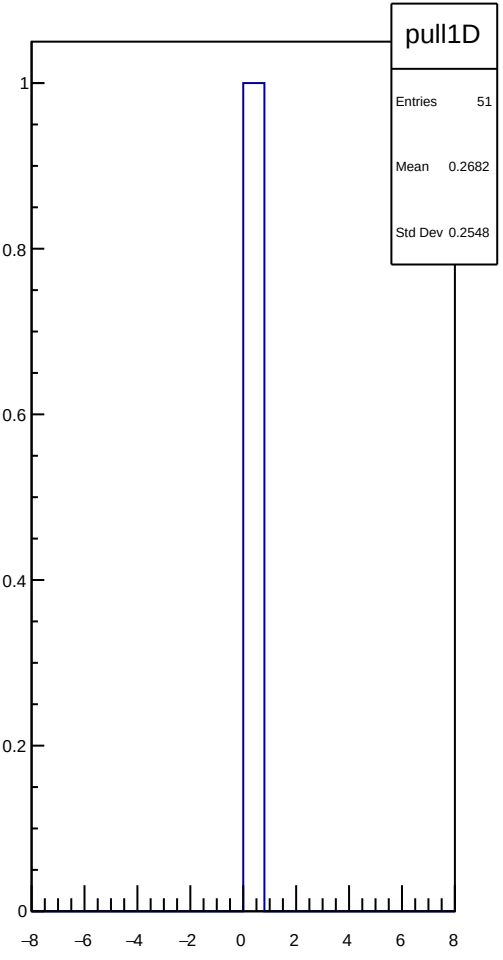

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.36 / 50
p0 −10.84 ± 2.689
1500
1000
500
0
−500
−1000
pull
Entries 51
Mean −29.04
Std Dev 52.56
1.5
1
0.5
0
−0.5
−1

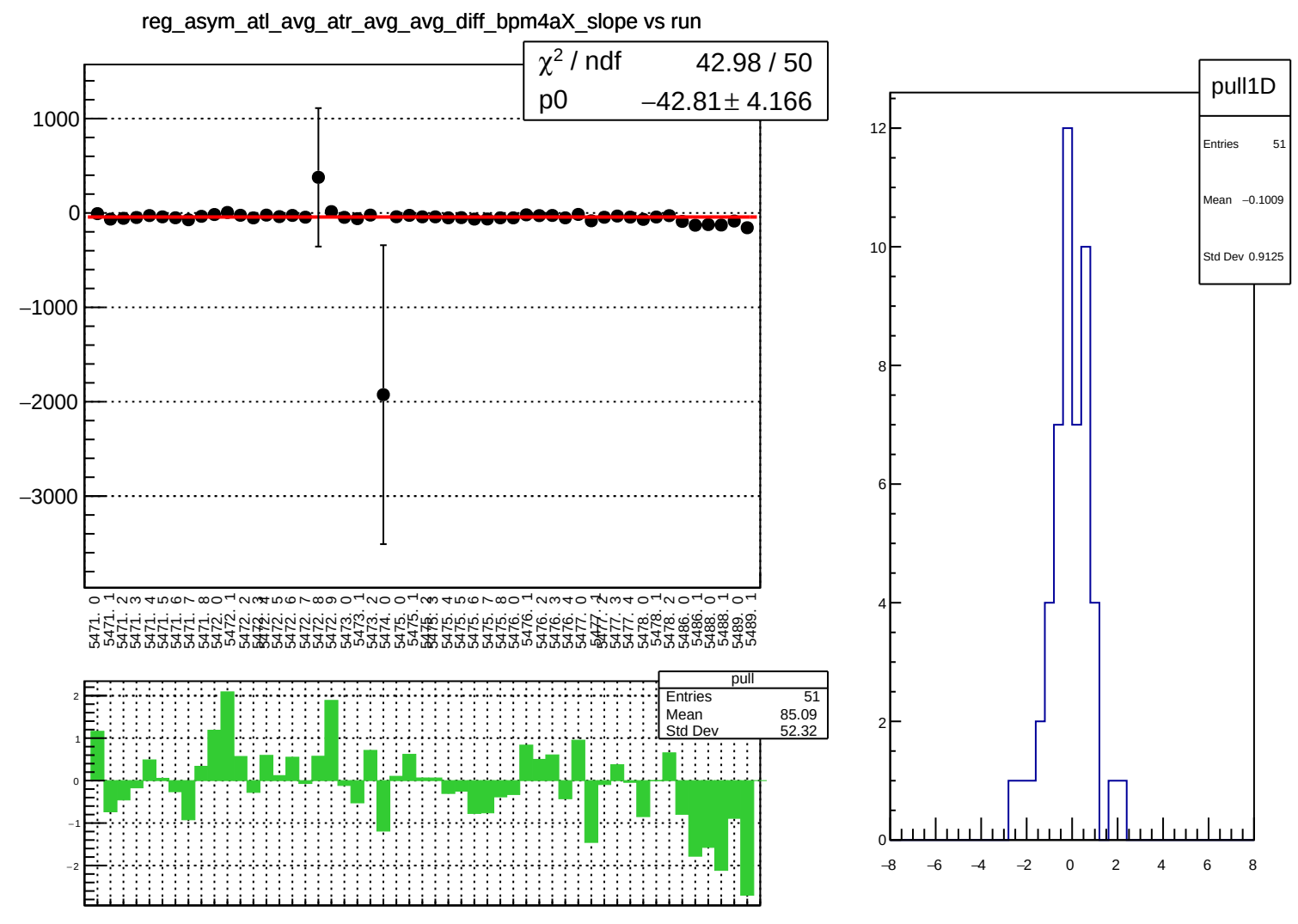

pull1D
Entries 51
Mean −0.08822
Std Dev 0.6412
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

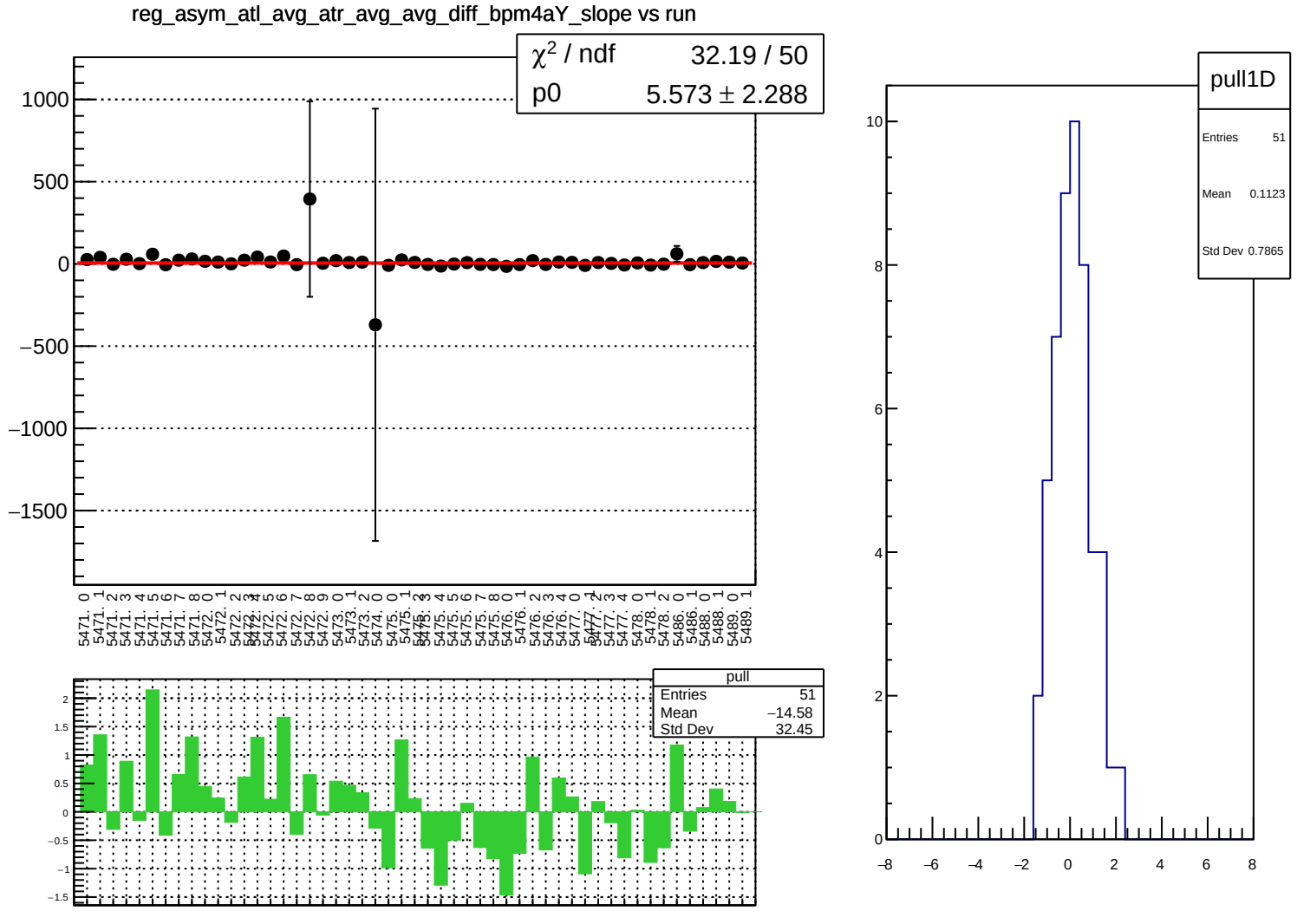

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.94 / 50
p0 −15.88 ± 4.699
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean −16.89
Std Dev 50.6
pull1D
Entries 51
Mean −0.147
Std Dev 1.243

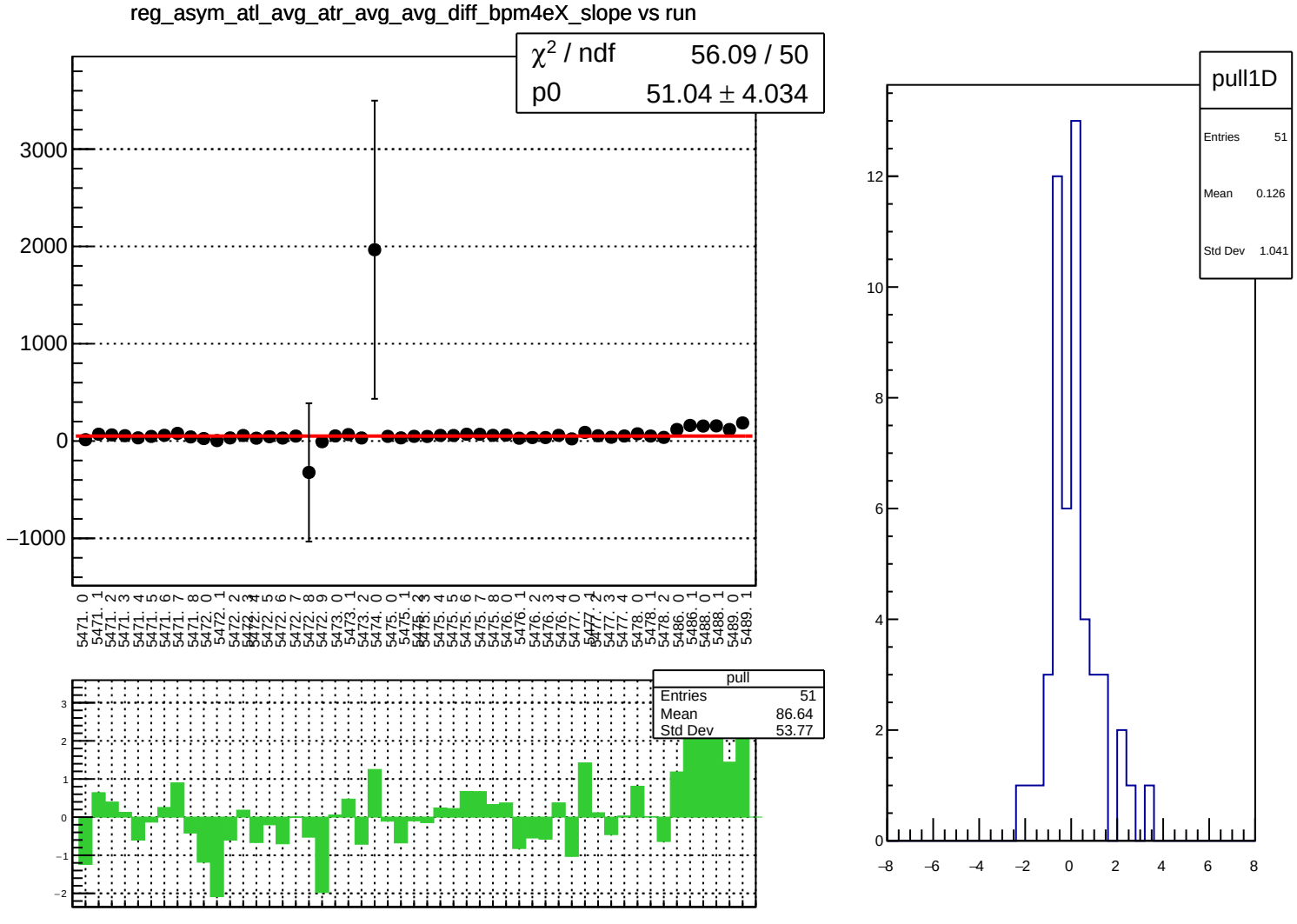

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.94 / 50
p0 −5.55 ± 3.383
pull
Entries 51
Mean −12.78
Std Dev 23.54
pull1D
Entries 51
Mean 0.05448
Std Dev 0.6537

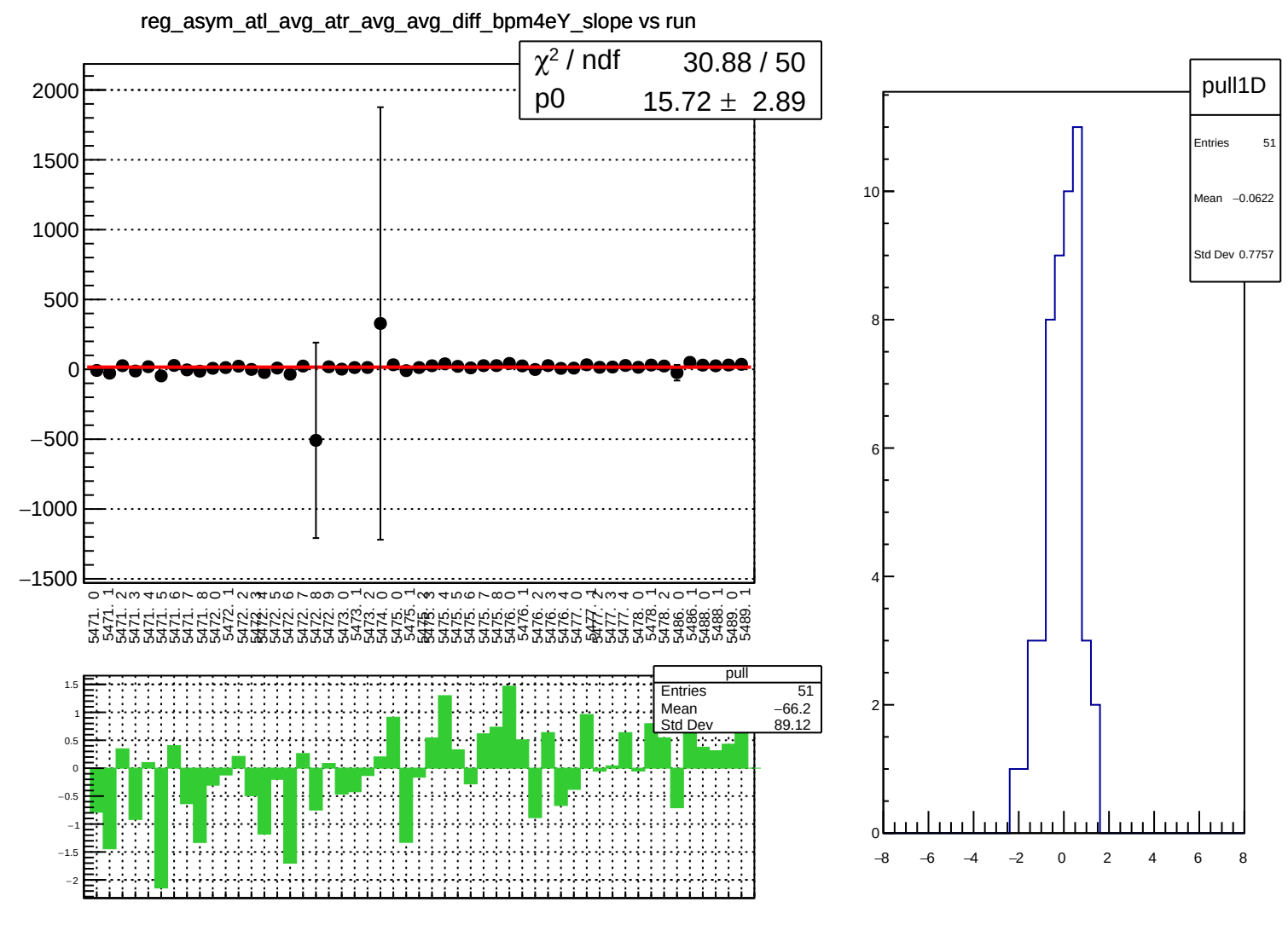

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 3.733e+04 / 50
p0 43.49 ± 0.1198
pull
Entries 51
Mean −46.95
Std Dev 76.84

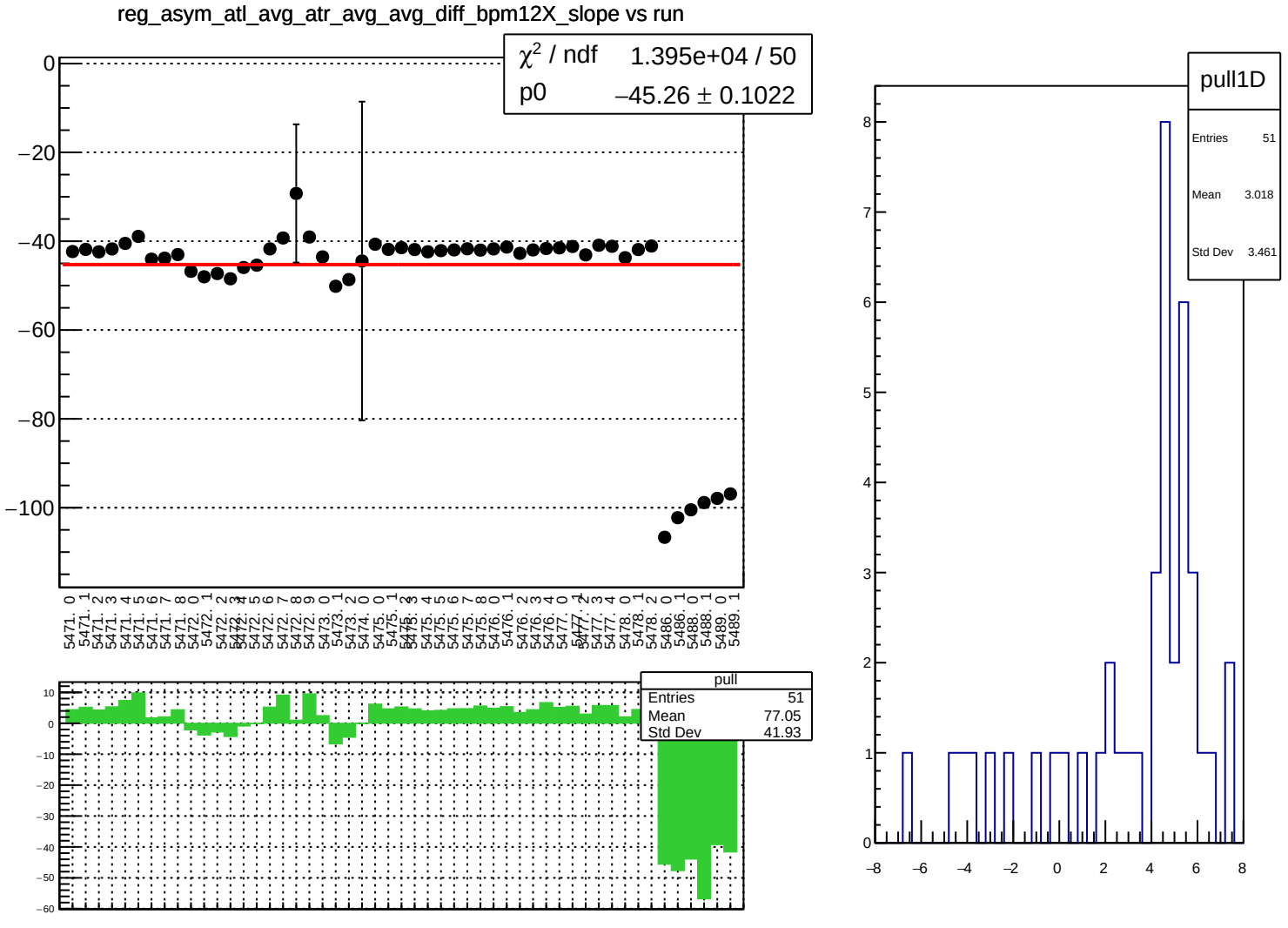

pull1D
Entries 51
Mean 0.2682
Std Dev 0.2548

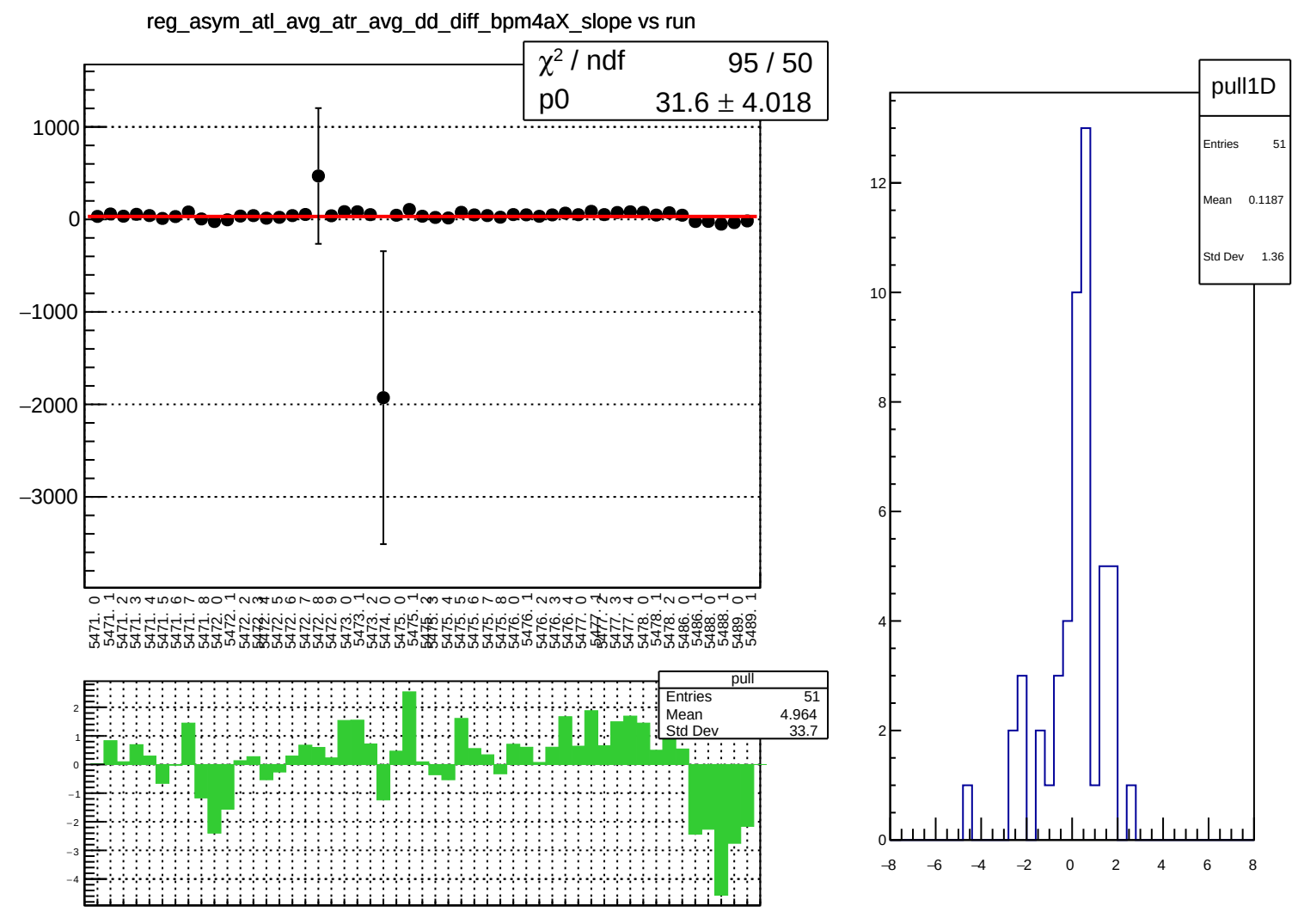

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aX_slope vs run
χ² / ndf 42.98 / 50
p0 −42.81 ± 4.166
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean 85.09
Std Dev 52.32
pull1D
Entries 51
Mean −0.1009
Std Dev 0.9125

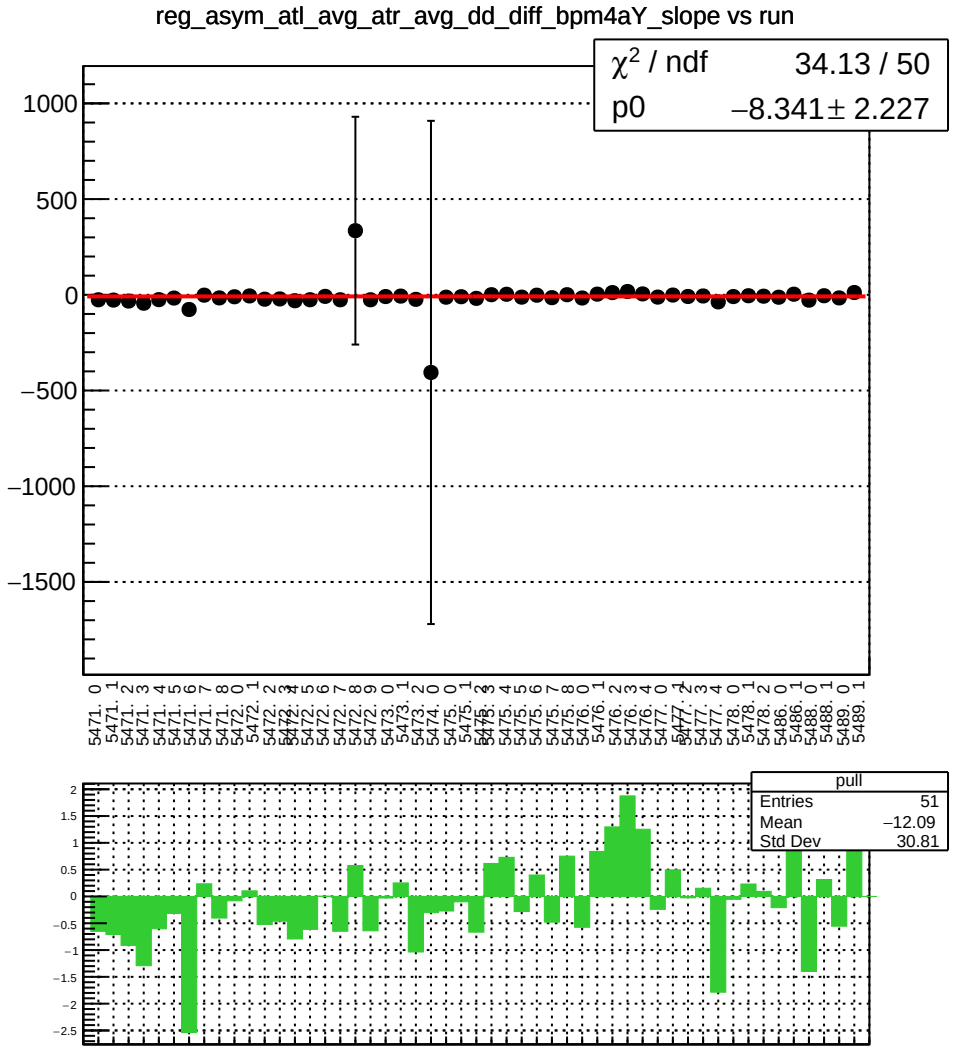

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.19 / 50
p0 5.573 ± 2.288
1000
500
0
−500
−1000
−1500
pull
Entries 51
Mean −14.58
Std Dev 32.45
pull1D
Entries 51
Mean 0.1123
Std Dev 0.7865

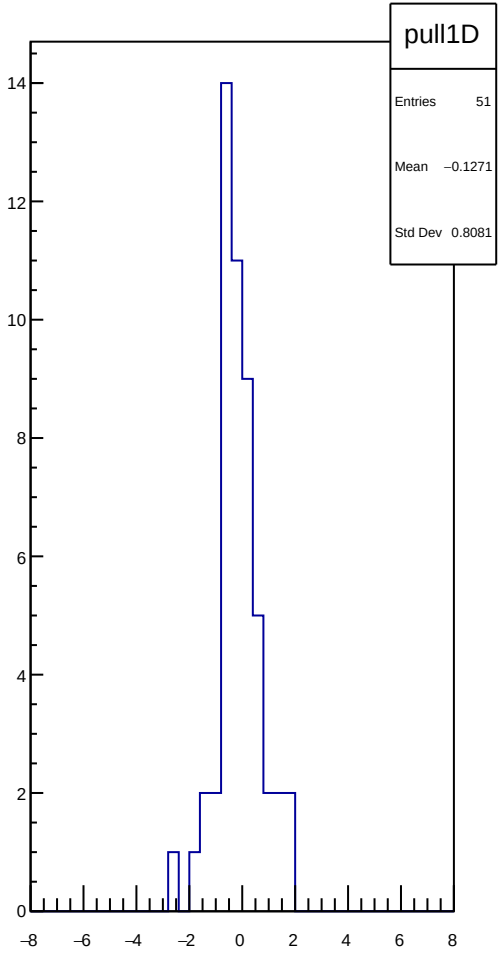

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.09 / 50
p0 51.04 ± 4.034
3000
2000
1000
0
−1000
pull
Entries 51
Mean 86.64
Std Dev 53.77
pull1D
Entries 51
Mean 0.126
Std Dev 1.041
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

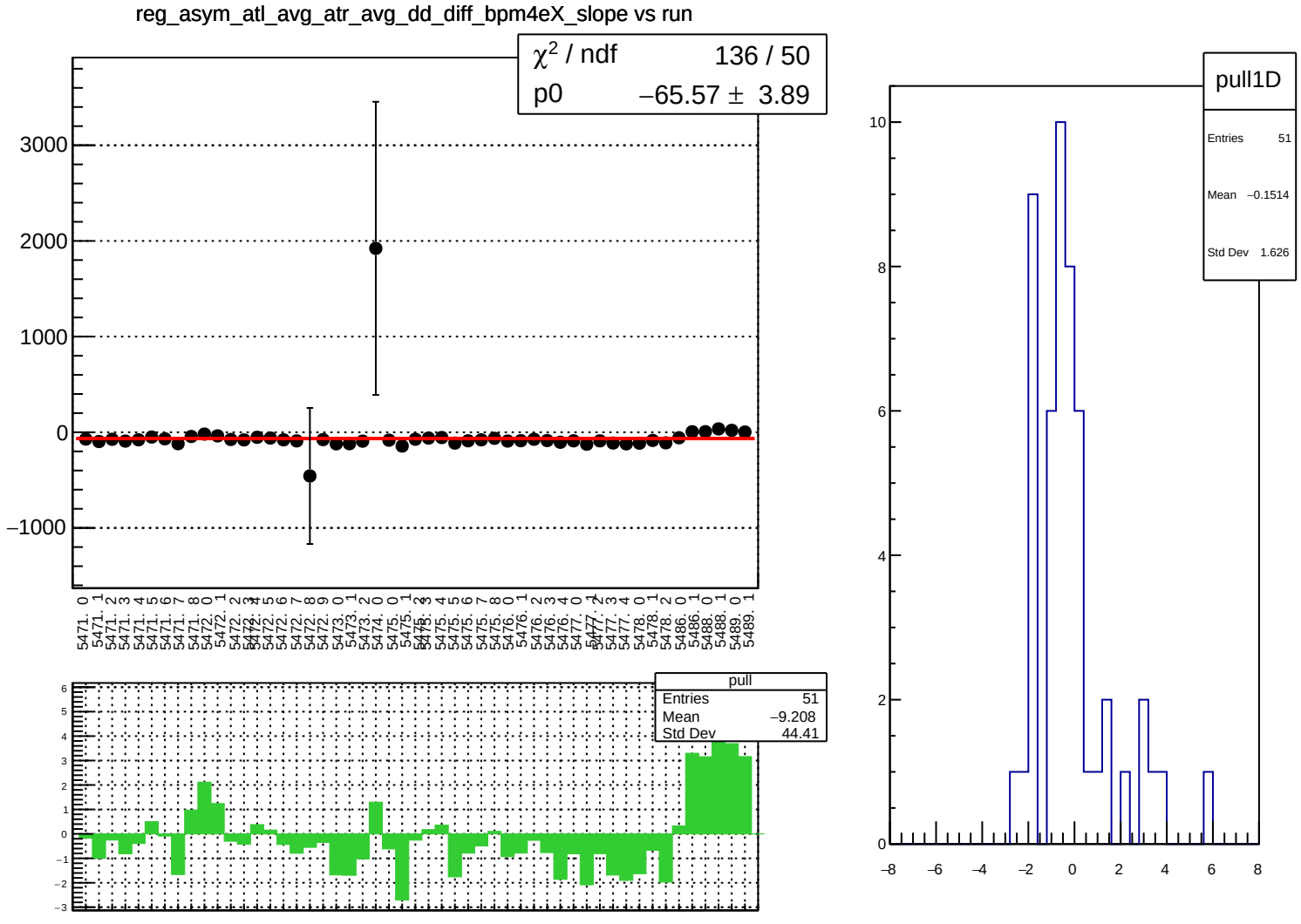

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.88 / 50
p0 15.72 ± 2.89
pull
Entries 51
Mean −66.2
Std Dev 89.12
pull1D
Entries 51
Mean −0.0622
Std Dev 0.7757

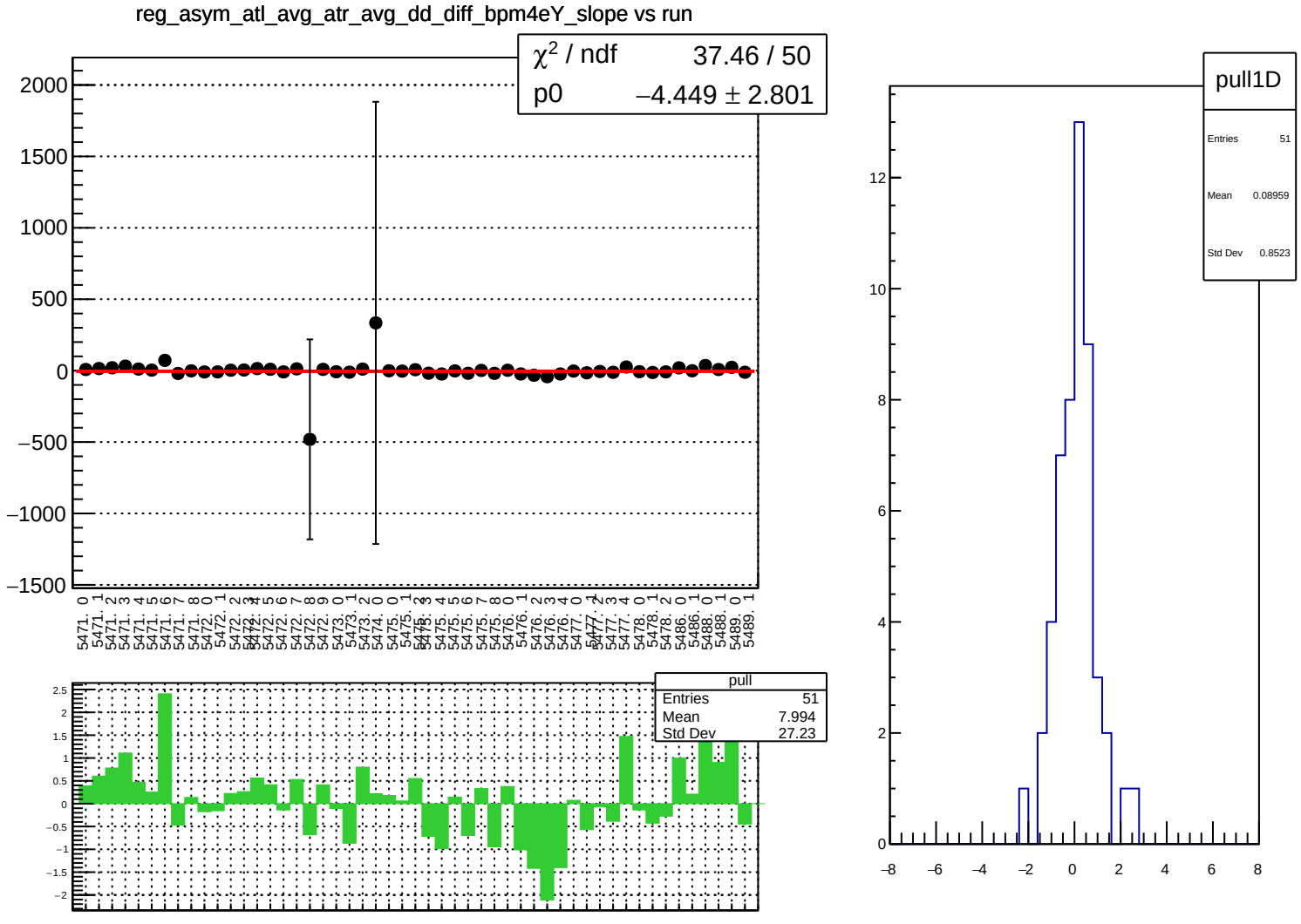

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 1.395e+04 / 50
p0 −45.26 ± 0.1022
pull
Entries 51
Mean 77.05
Std Dev 41.93
pull1D
Entries 51
Mean 3.018
Std Dev 3.461

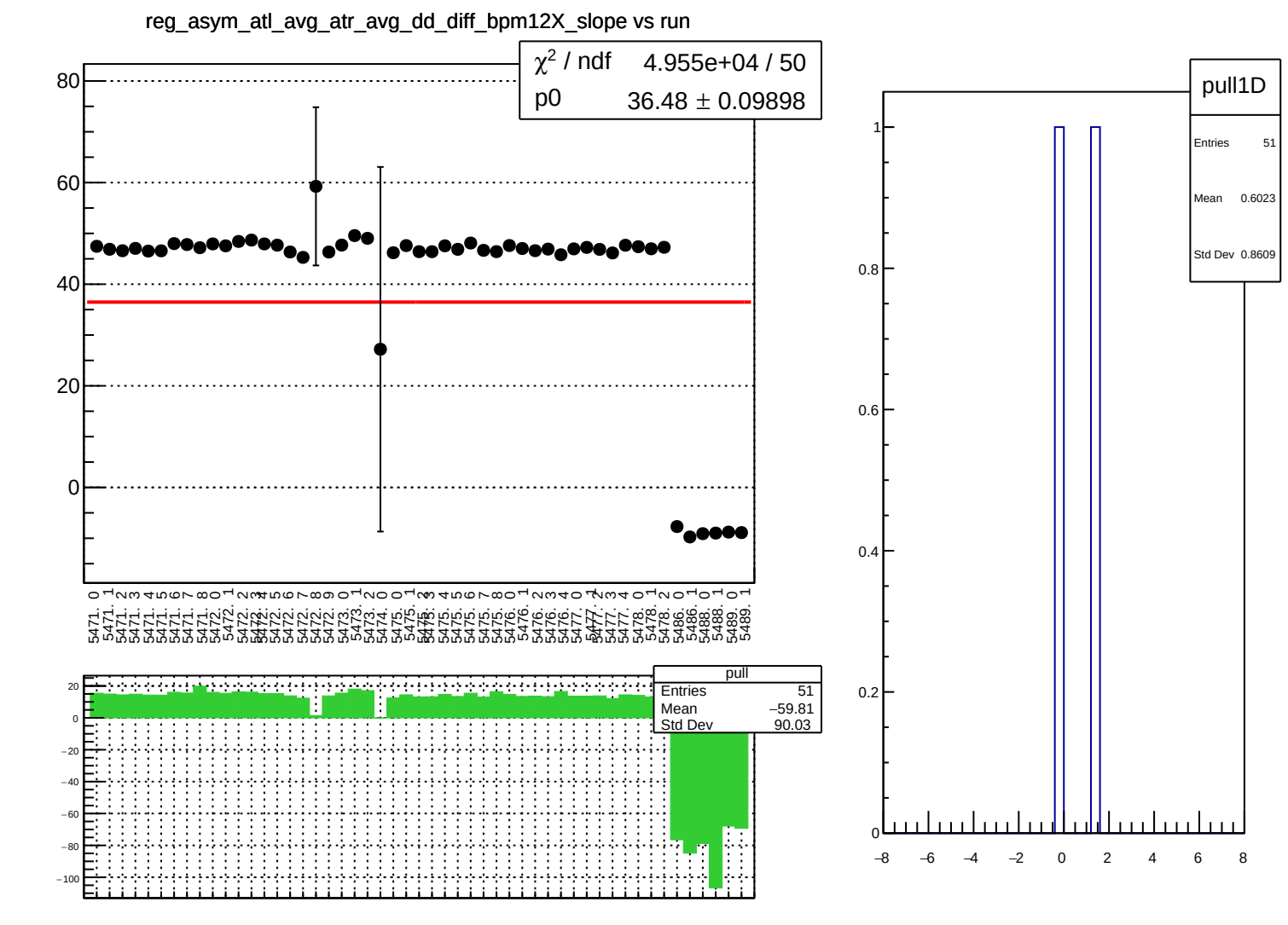

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aX_slope vs run
χ² / ndf 95 / 50
p0 31.6 ± 4.018
1000
0
−1000
−2000
−3000
pull
Entries 51
Mean 4.964
Std Dev 33.7
pull1D
Entries 51
Mean 0.1187
Std Dev 1.36

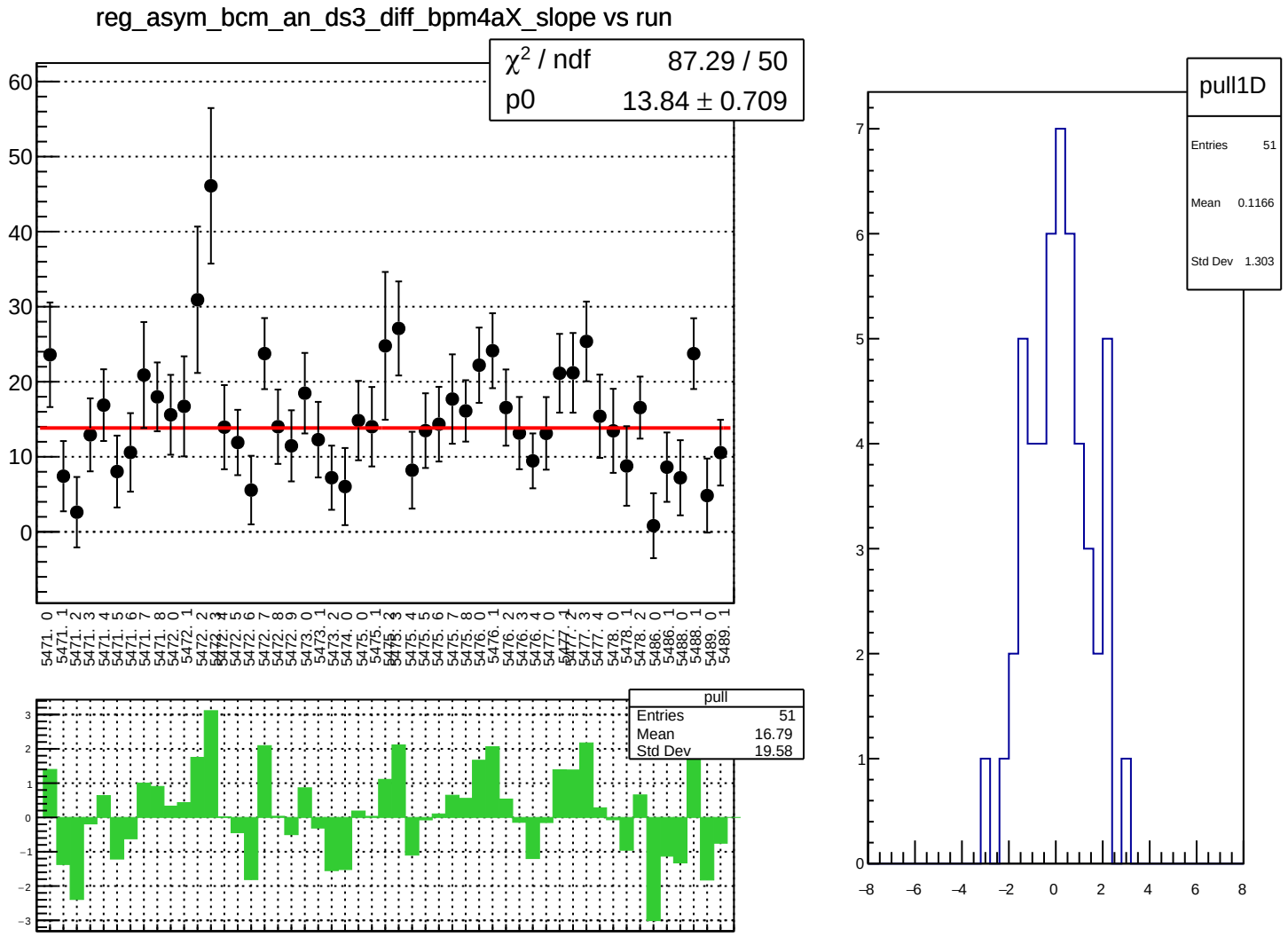

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 34.13 / 50
p0 −8.341 ± 2.227
pull
Entries 51
Mean −12.09
Std Dev 30.81

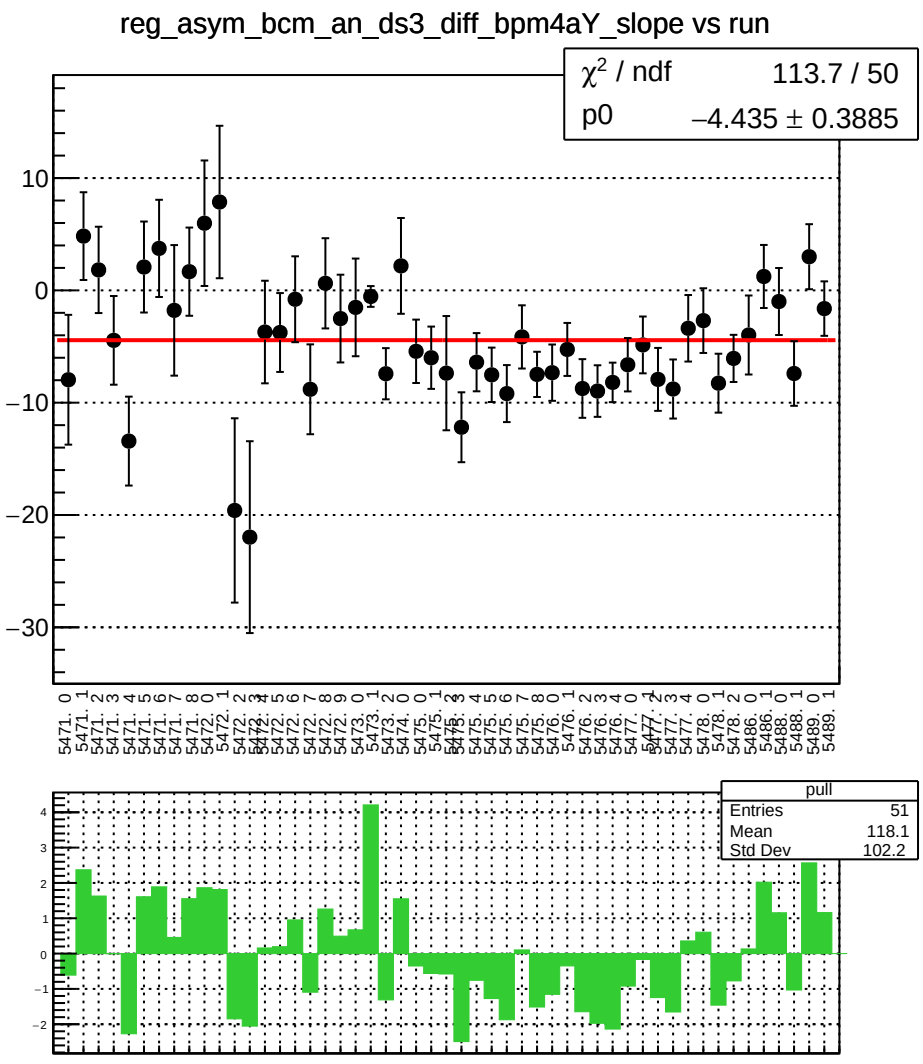

pull1D
Entries 51
Mean −0.1271
Std Dev 0.8081

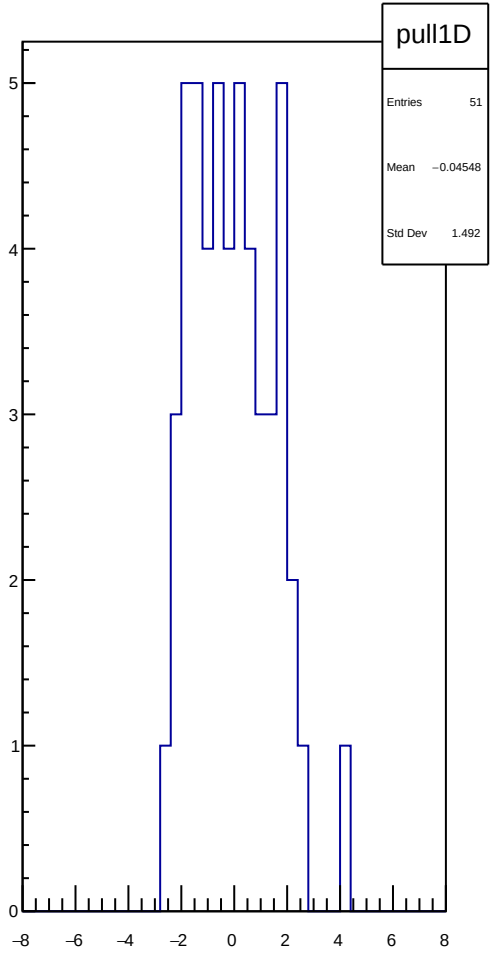

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 136 / 50
p0 −65.57 ± 3.89
3000
2000
1000
0
−1000
pull
Entries 51
Mean −9.208
Std Dev 44.41
pull1D
Entries 51
Mean −0.1514
Std Dev 1.626

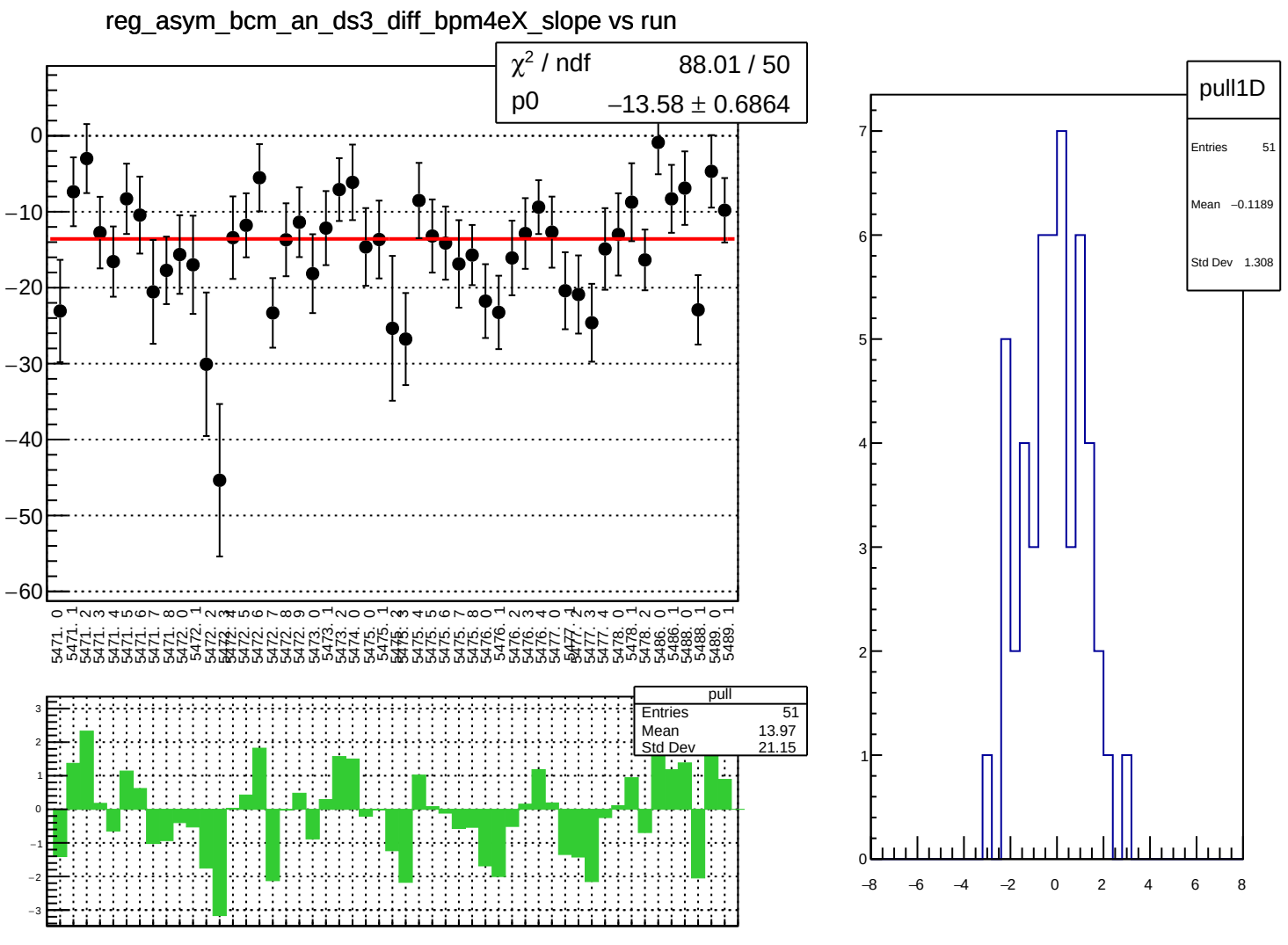

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.46 / 50
p0 −4.449 ± 2.801
pull
Entries 51
Mean 7.994
Std Dev 27.23
pull1D
Entries 51
Mean 0.08959
Std Dev 0.8523

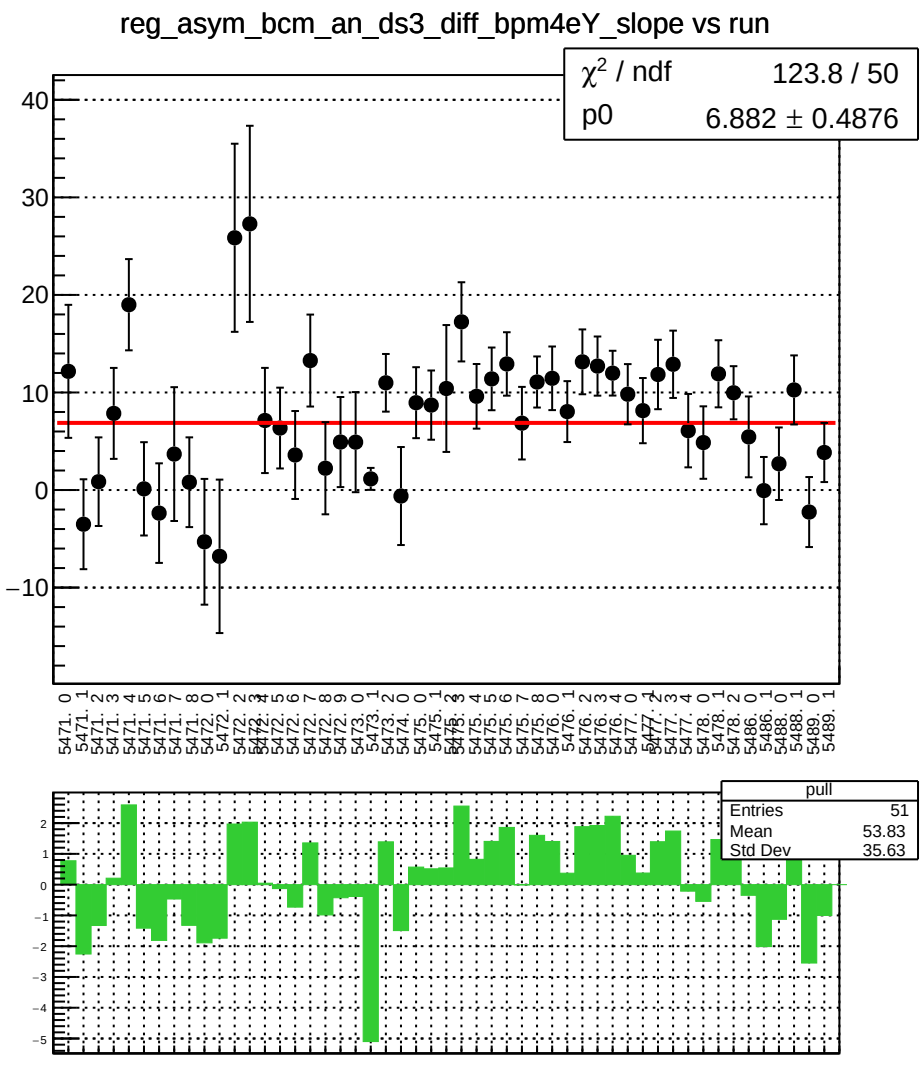

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 4.955e+04 / 50
p0 36.48 ± 0.09898
pull
Entries 51
Mean −59.81
Std Dev 90.03
pull1D
Entries 51
Mean 0.6023
Std Dev 0.8609

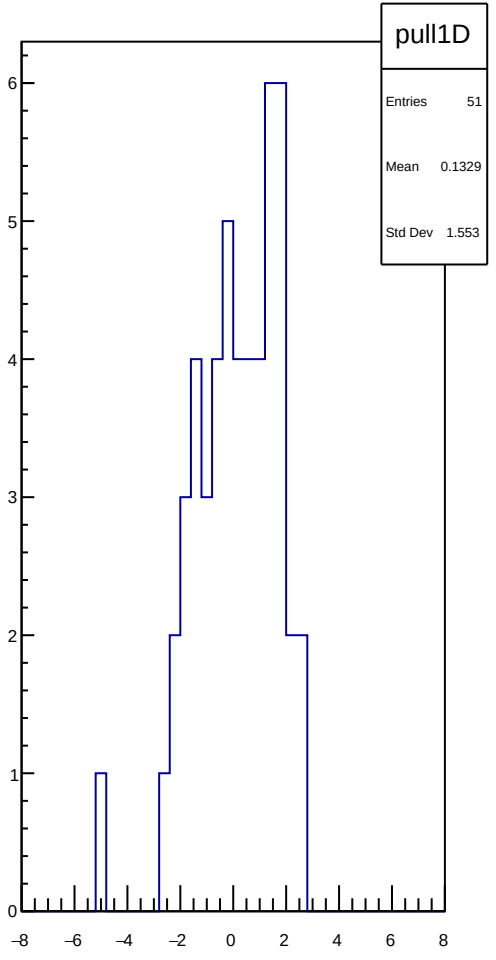

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 87.29 / 50
p0 13.84 ± 0.709
pull
Entries 51
Mean 16.79
Std Dev 19.58
pull1D
Entries 51
Mean 0.1166
Std Dev 1.303

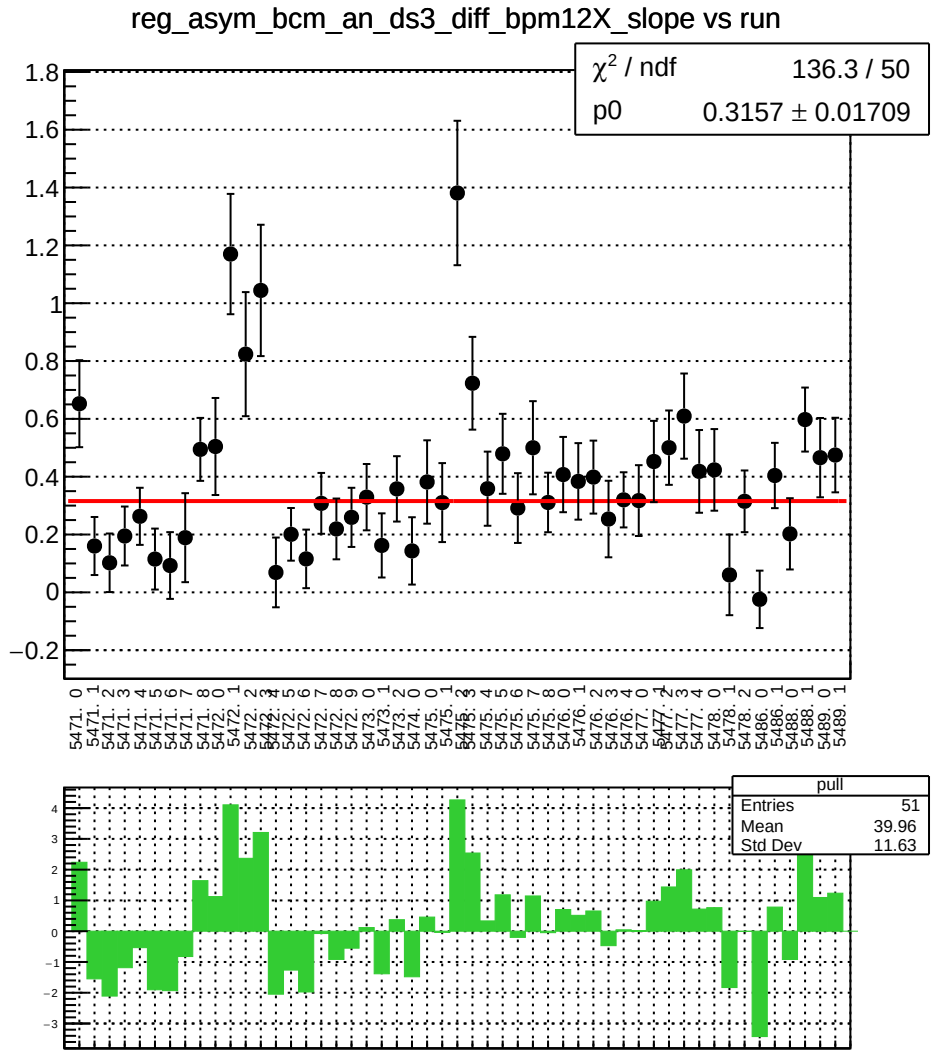

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 113.7 / 50
p0 −4.435 ± 0.3885
pull
Entries 51
Mean 118.1
Std Dev 102.2

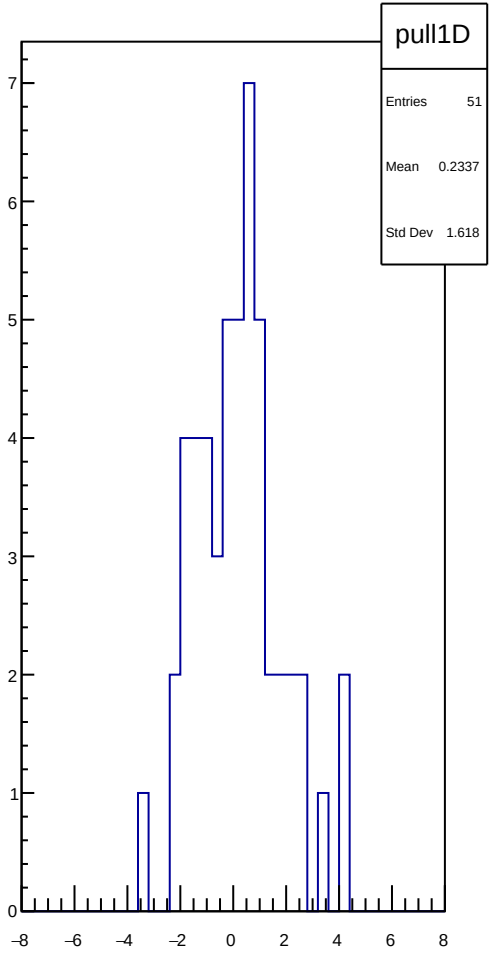

pull1D
Entries 51
Mean −0.04548
Std Dev 1.492

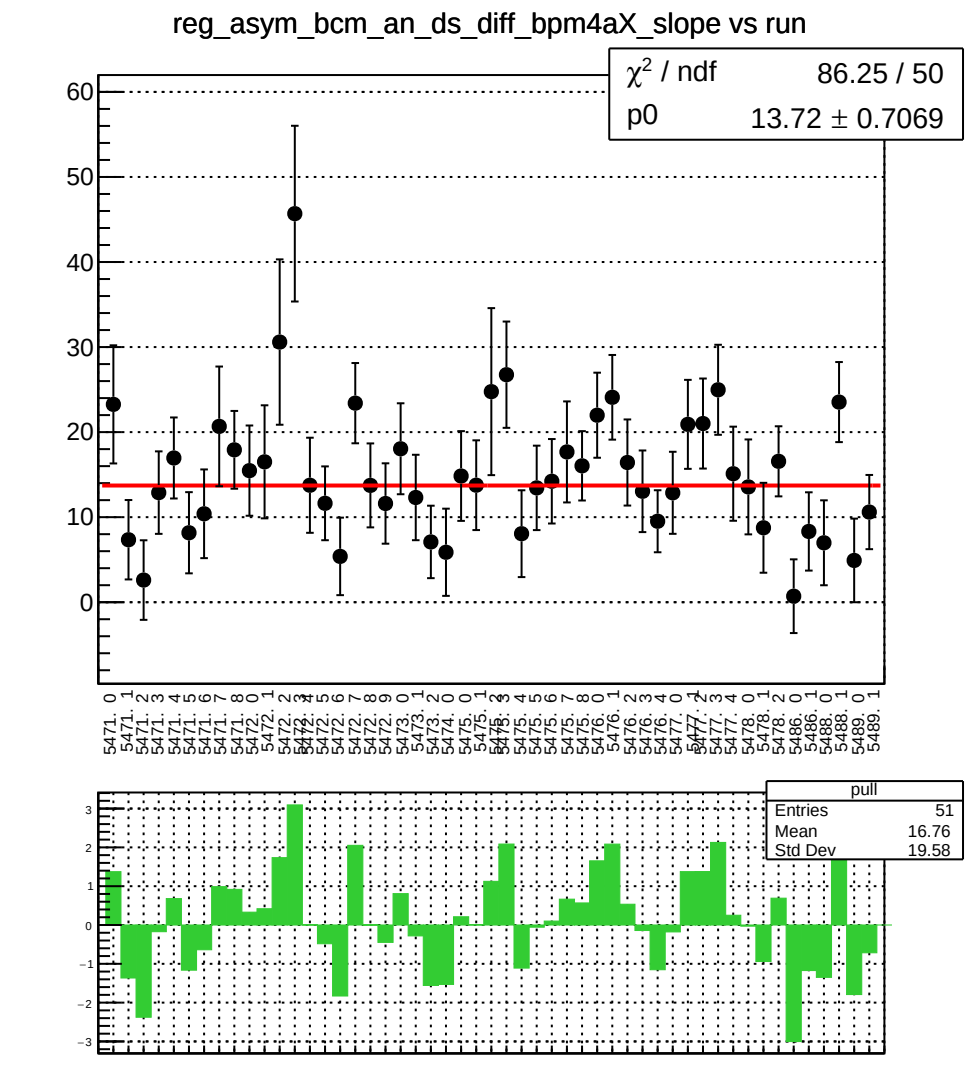

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 88.01 / 50
p0 −13.58 ± 0.6864
pull
Entries 51
Mean 13.97
Std Dev 21.15
pull1D
Entries 51
Mean −0.1189
Std Dev 1.308

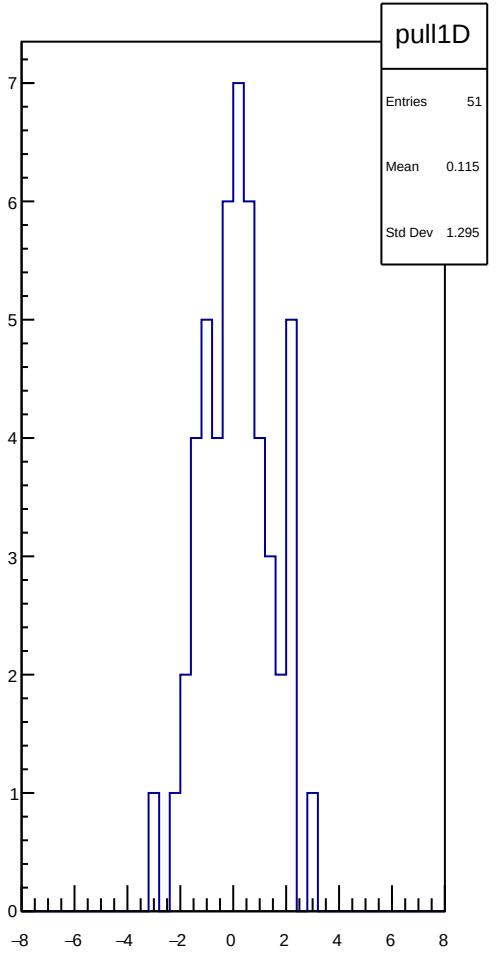

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 123.8 / 50
p0 6.882 ± 0.4876
pull
Entries 51
Mean 53.83
Std Dev 35.63

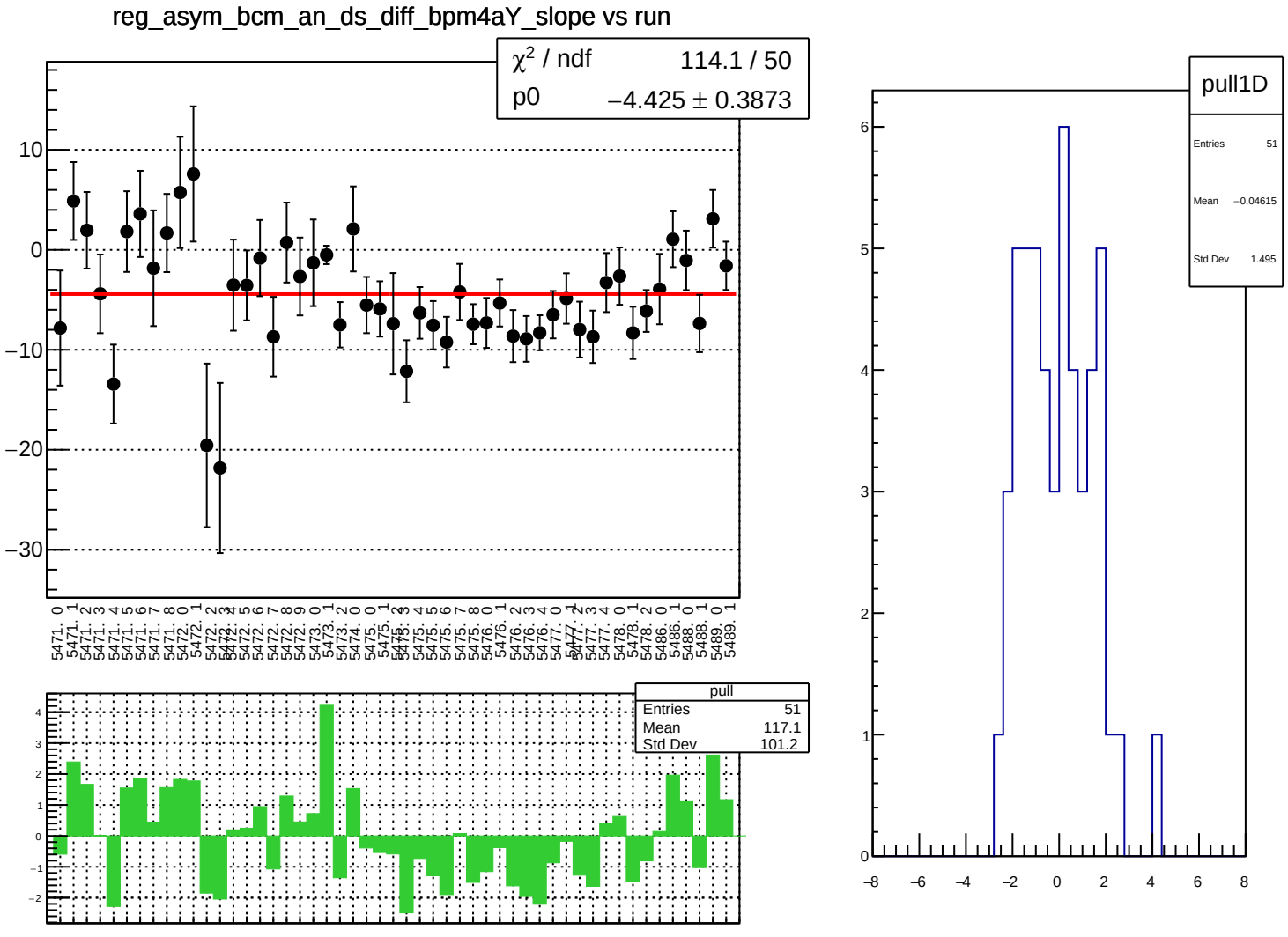

pull1D
Entries 51
Mean 0.1329
Std Dev 1.553

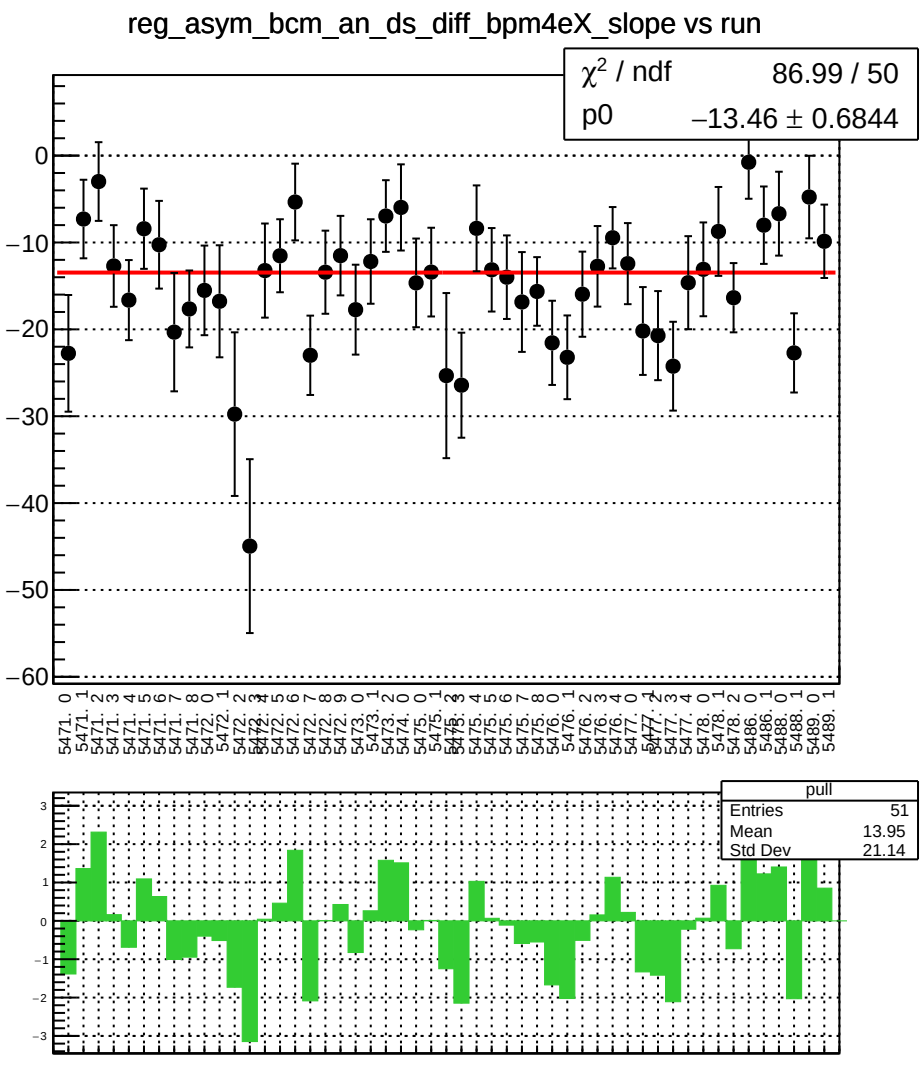

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 136.3 / 50
p0 0.3157 ± 0.01709
pull
Entries 51
Mean 39.96
Std Dev 11.63

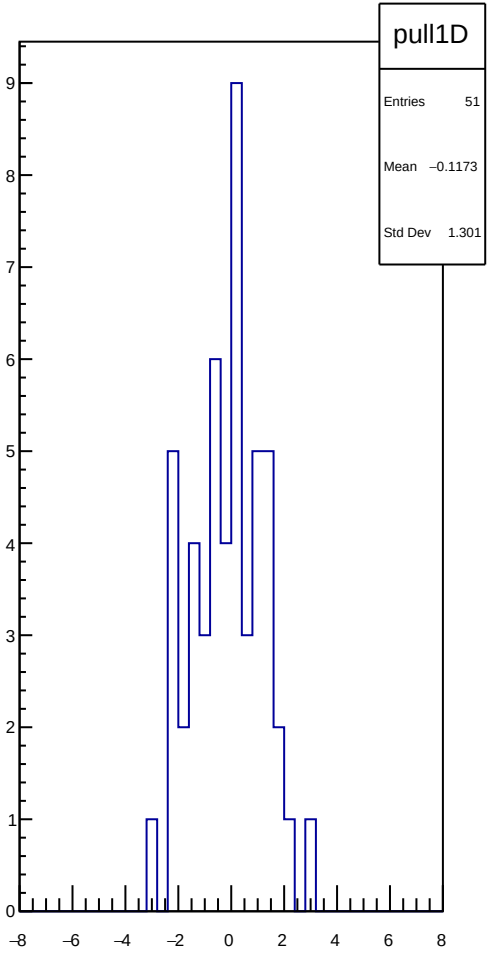

pull1D
Entries 51
Mean 0.2337
Std Dev 1.618

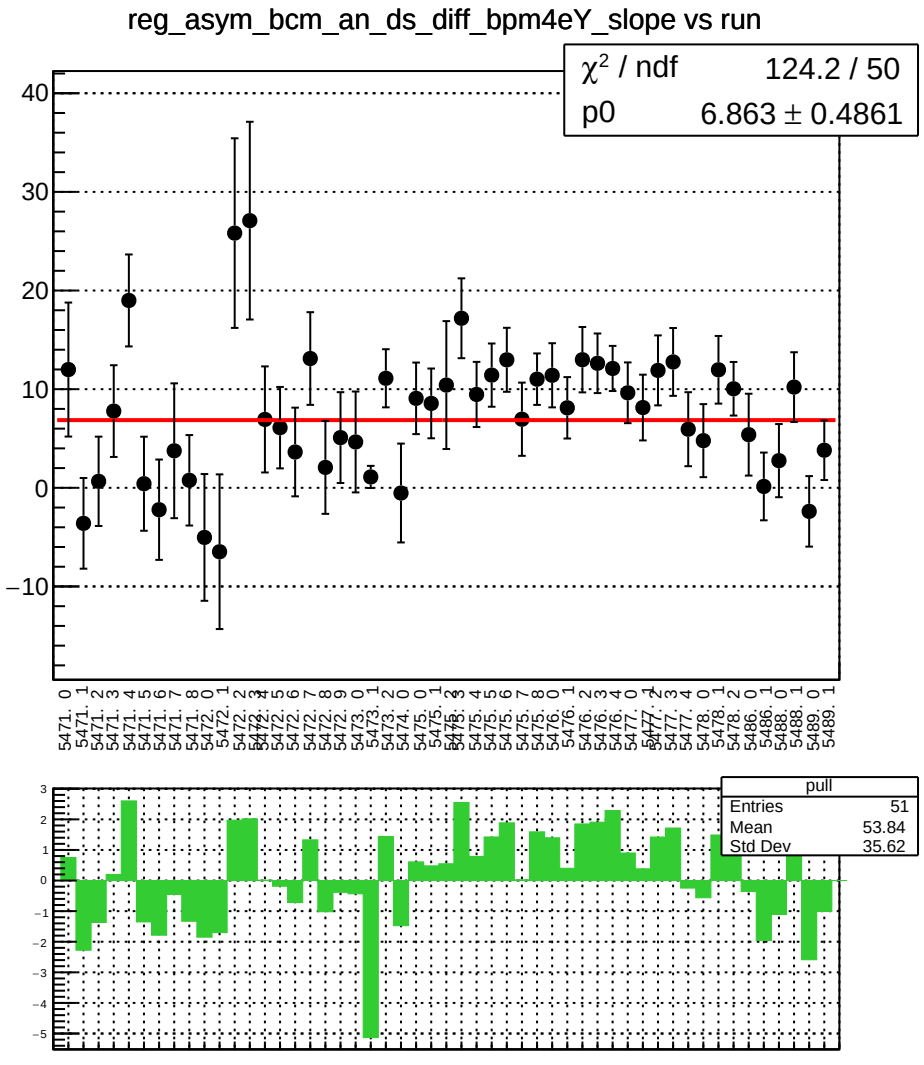

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 86.25 / 50
p0 13.72 ± 0.7069
pull
Entries 51
Mean 16.76
Std Dev 19.58

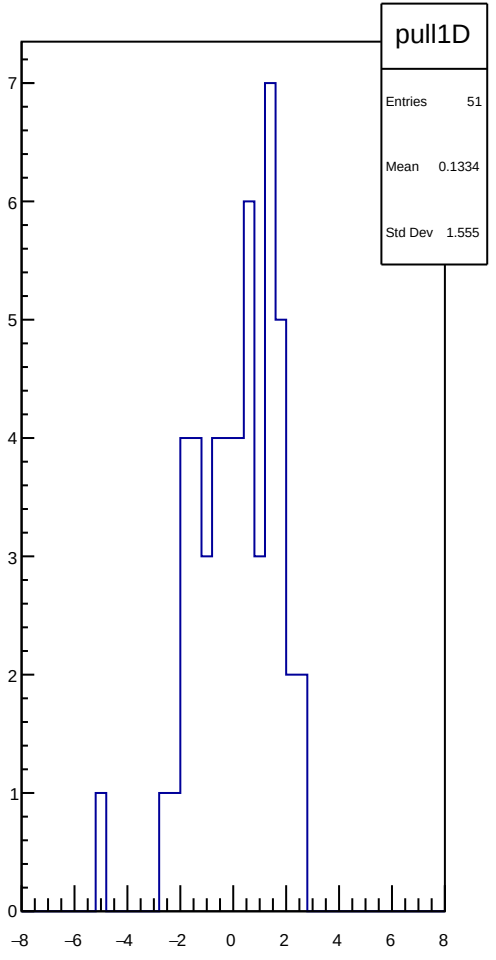

pull1D
Entries 51
Mean 0.115
Std Dev 1.295

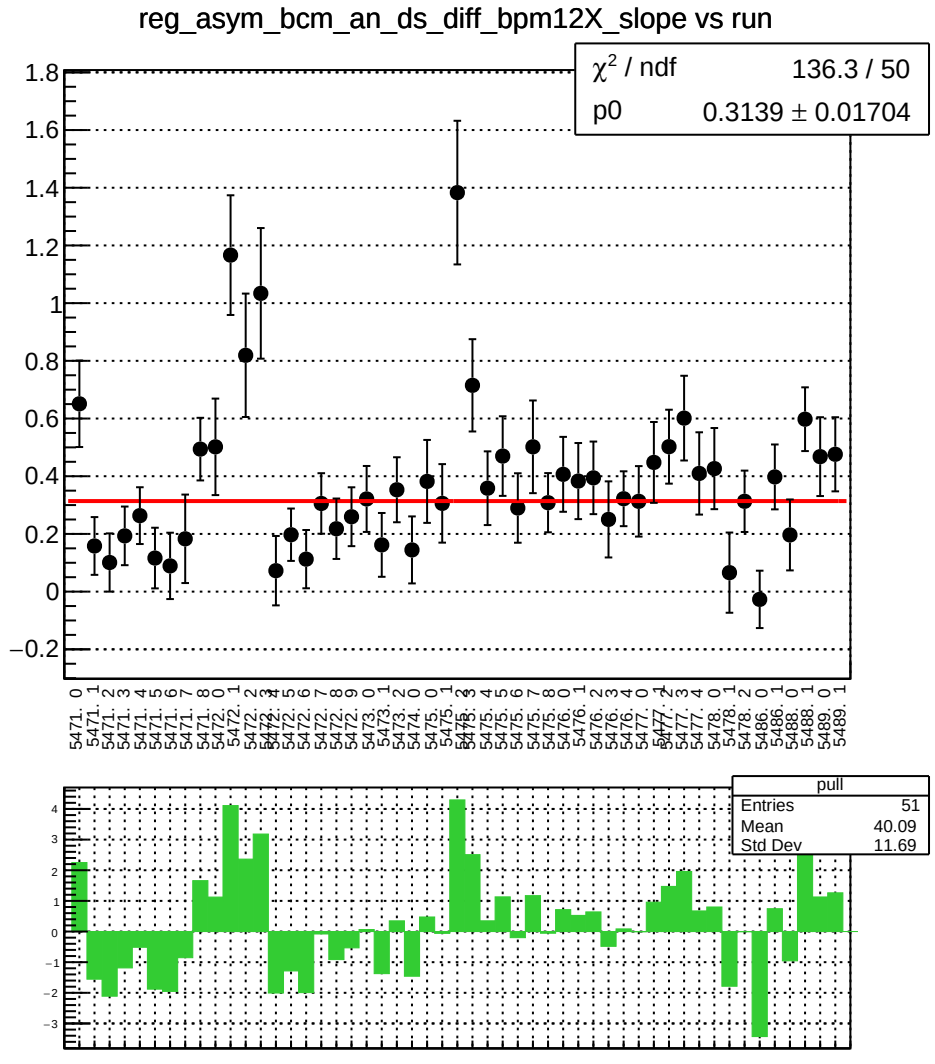

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 114.1 / 50
p0 −4.425 ± 0.3873
pull
Entries 51
Mean 117.1
Std Dev 101.2
pull1D
Entries 51
Mean −0.04615
Std Dev 1.495

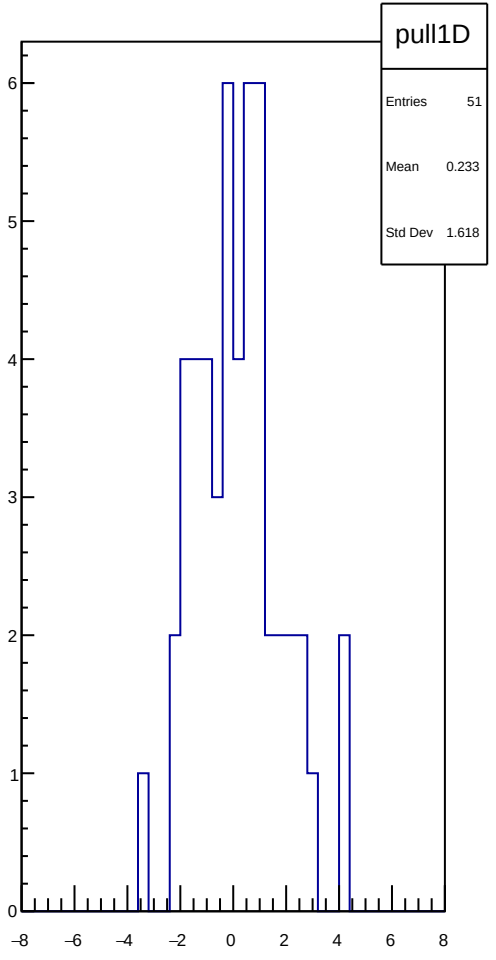

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 86.99 / 50
p0 −13.46 ± 0.6844
pull
Entries 51
Mean 13.95
Std Dev 21.14

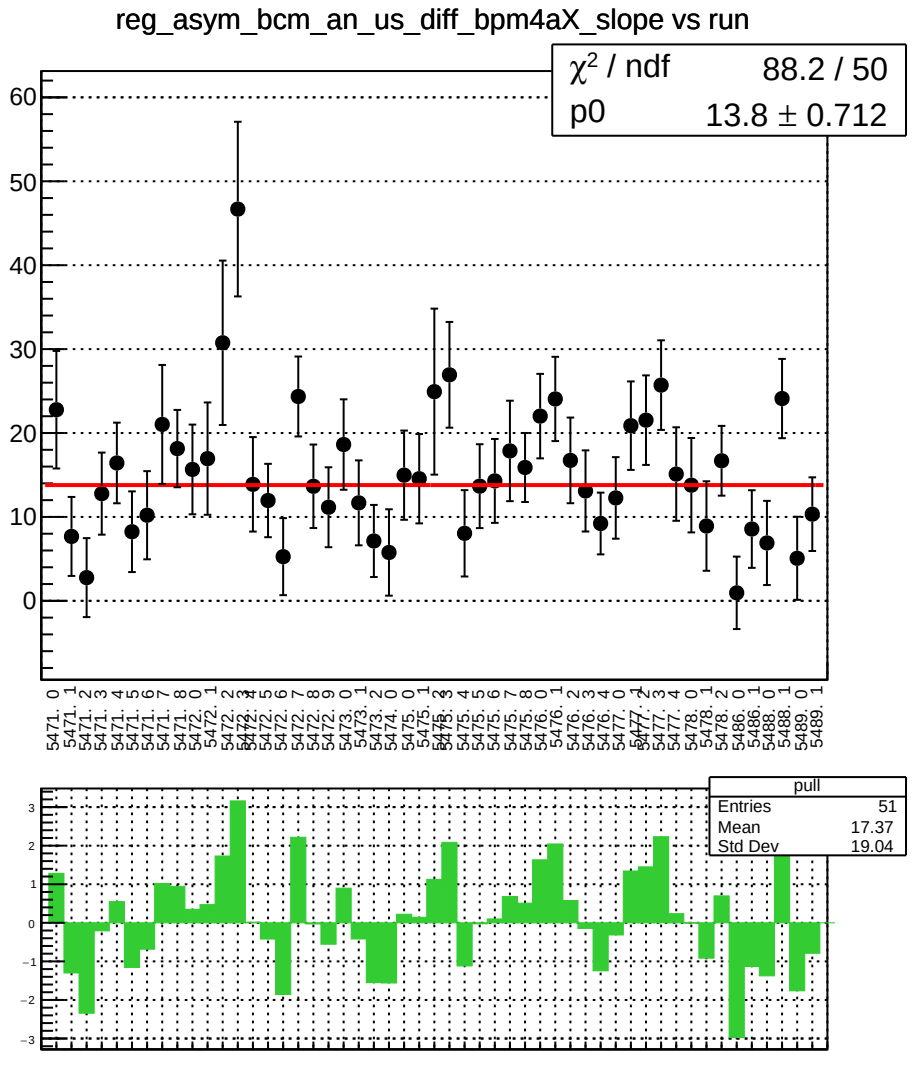

pull1D
Entries 51
Mean −0.1173
Std Dev 1.301

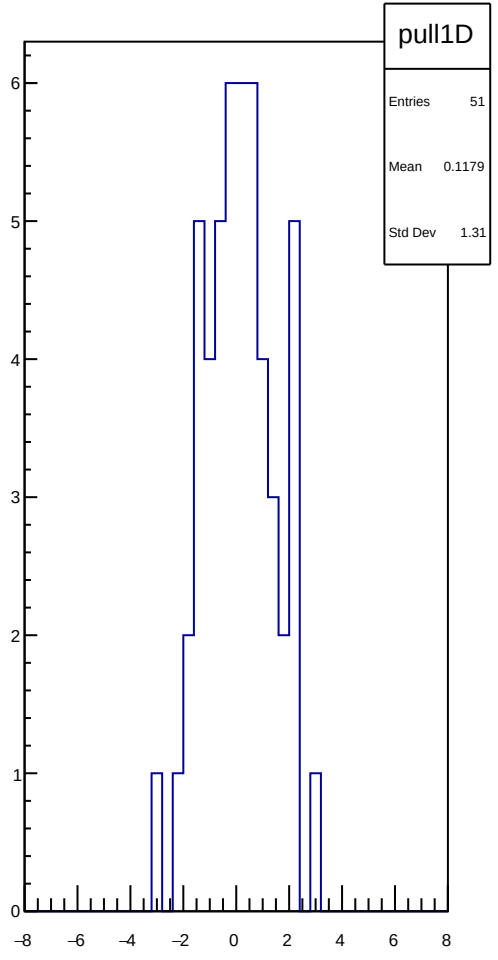

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 124.2 / 50
p0 6.863 ± 0.4861
pull
Entries 51
Mean 53.84
Std Dev 35.62

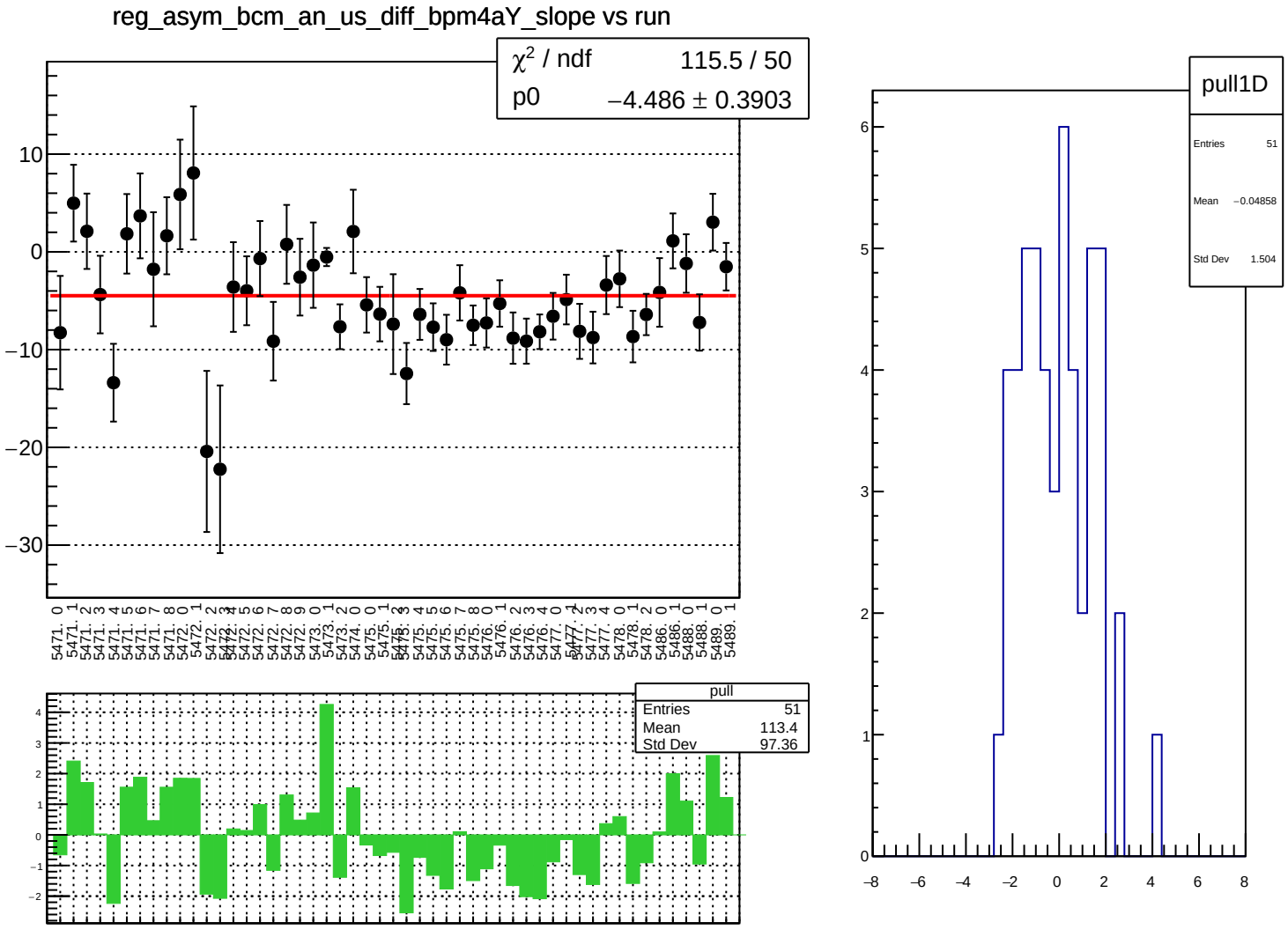

pull1D
Entries 51
Mean 0.1334
Std Dev 1.555

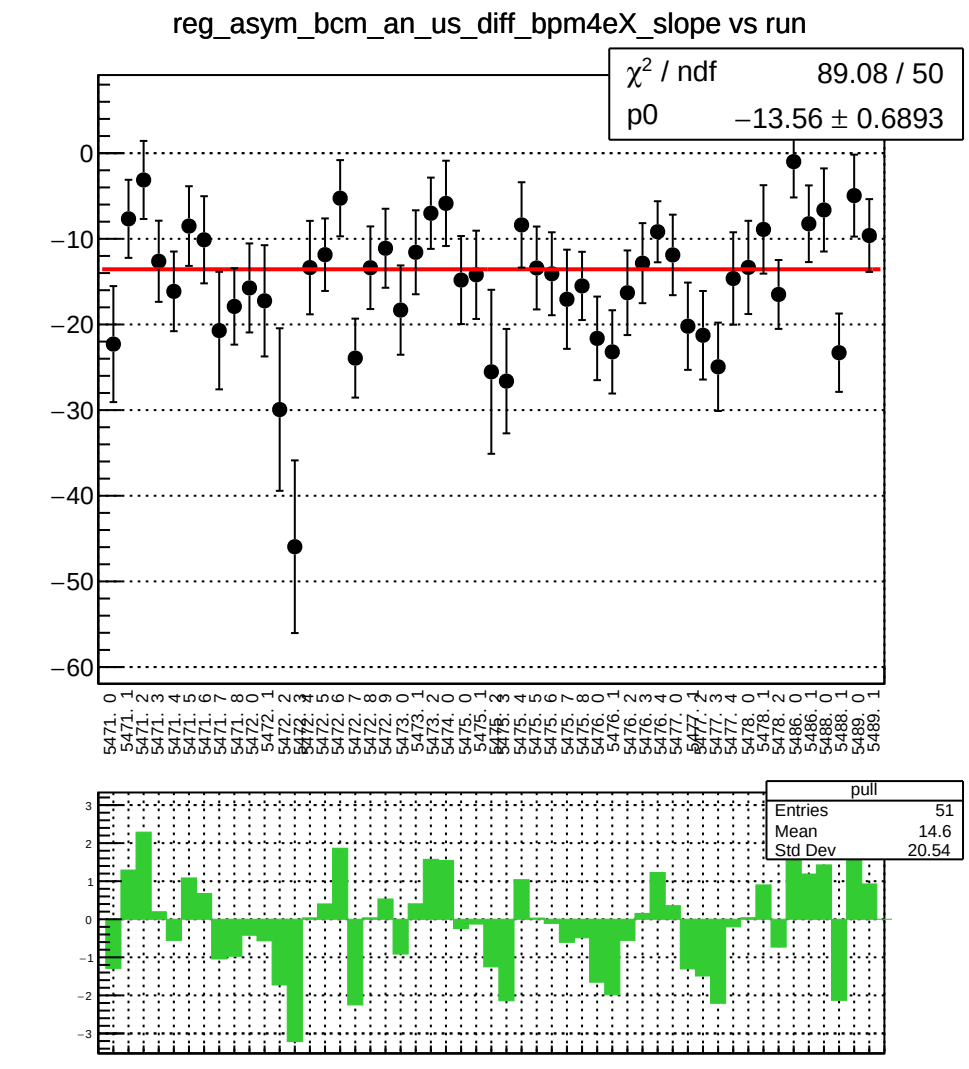

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 136.3 / 50
p0 0.3139 ± 0.01704
pull
Entries 51
Mean 40.09
Std Dev 11.69

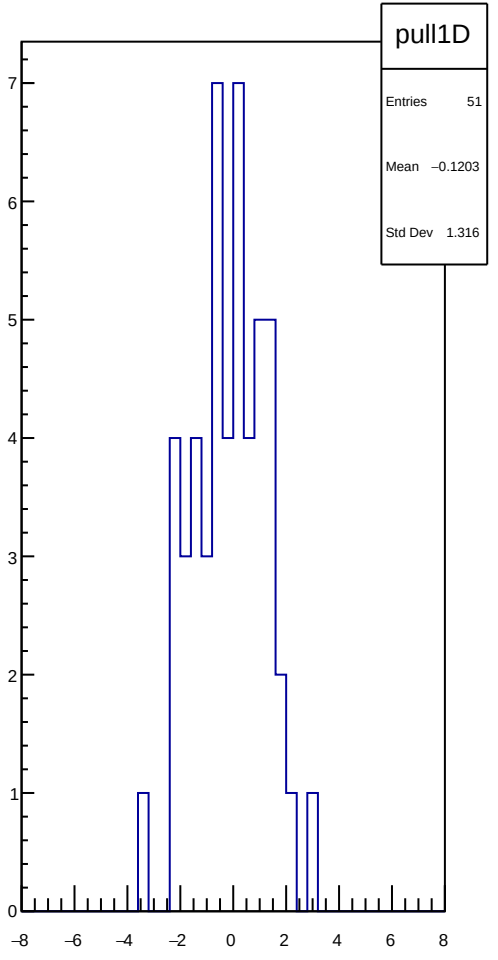

pull1D
Entries 51
Mean 0.233
Std Dev 1.618

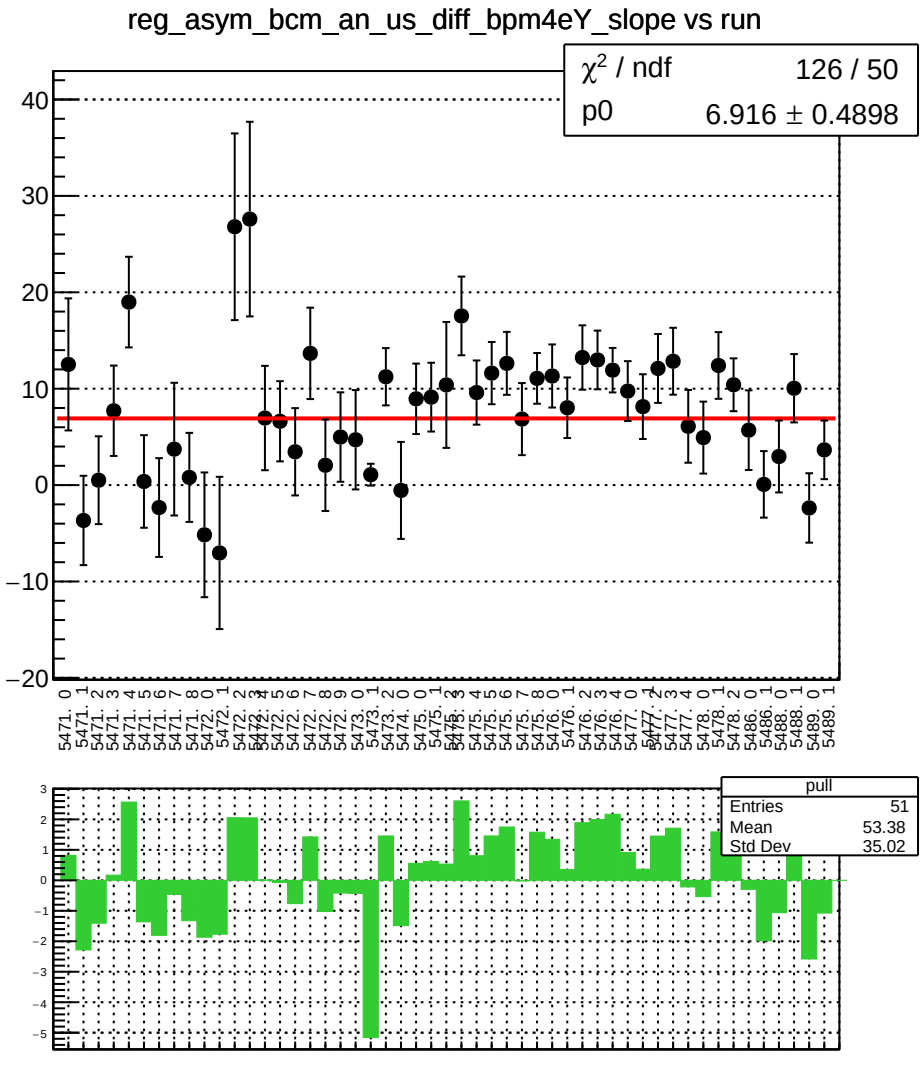

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 88.2 / 50
p0 13.8 ± 0.712
pull
Entries 51
Mean 17.37
Std Dev 19.04

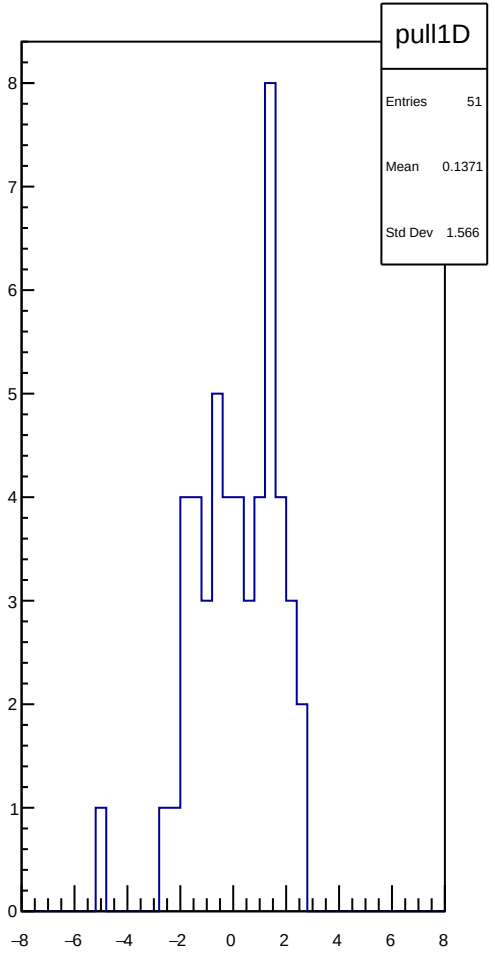

pull1D
Entries 51
Mean 0.1179
Std Dev 1.31

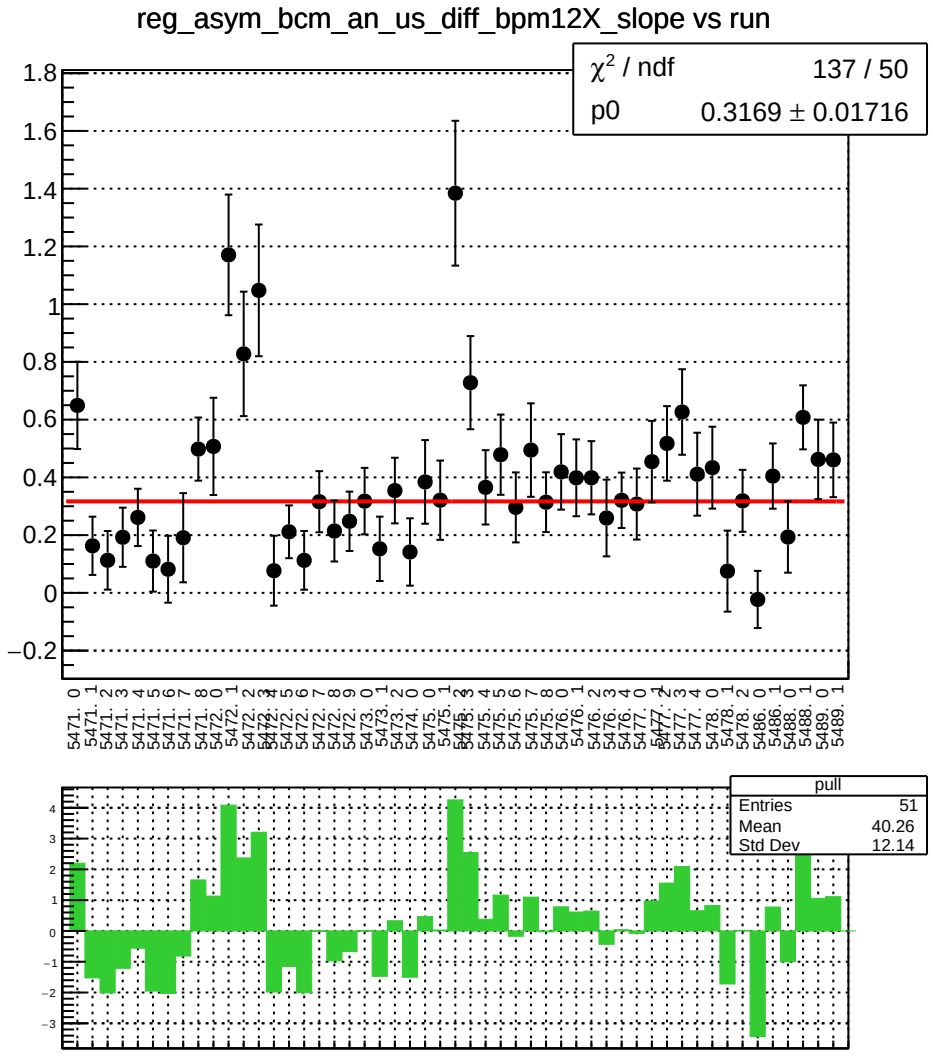

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 115.5 / 50
p0 −4.486 ± 0.3903
pull
Entries 51
Mean 113.4
Std Dev 97.36
pull1D
Entries 51
Mean −0.04858
Std Dev 1.504

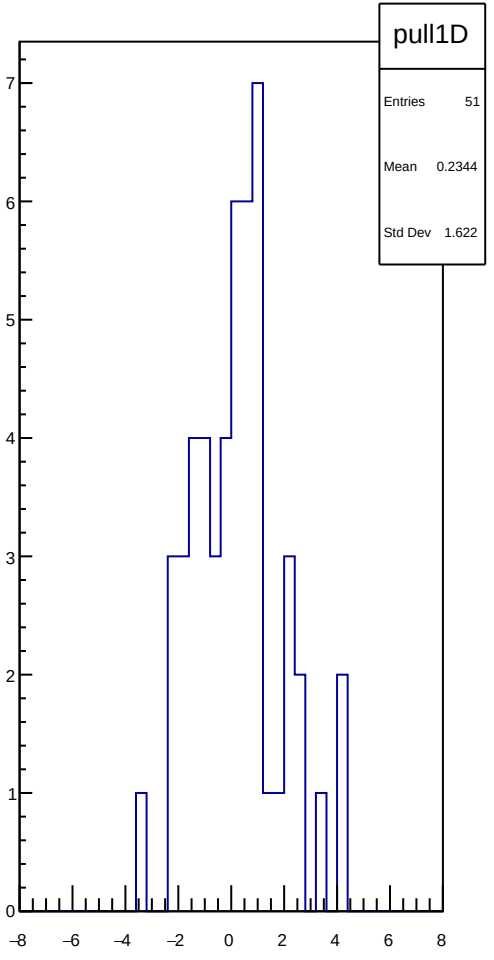

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 89.08 / 50
p0 −13.56 ± 0.6893
pull
Entries 51
Mean 14.6
Std Dev 20.54

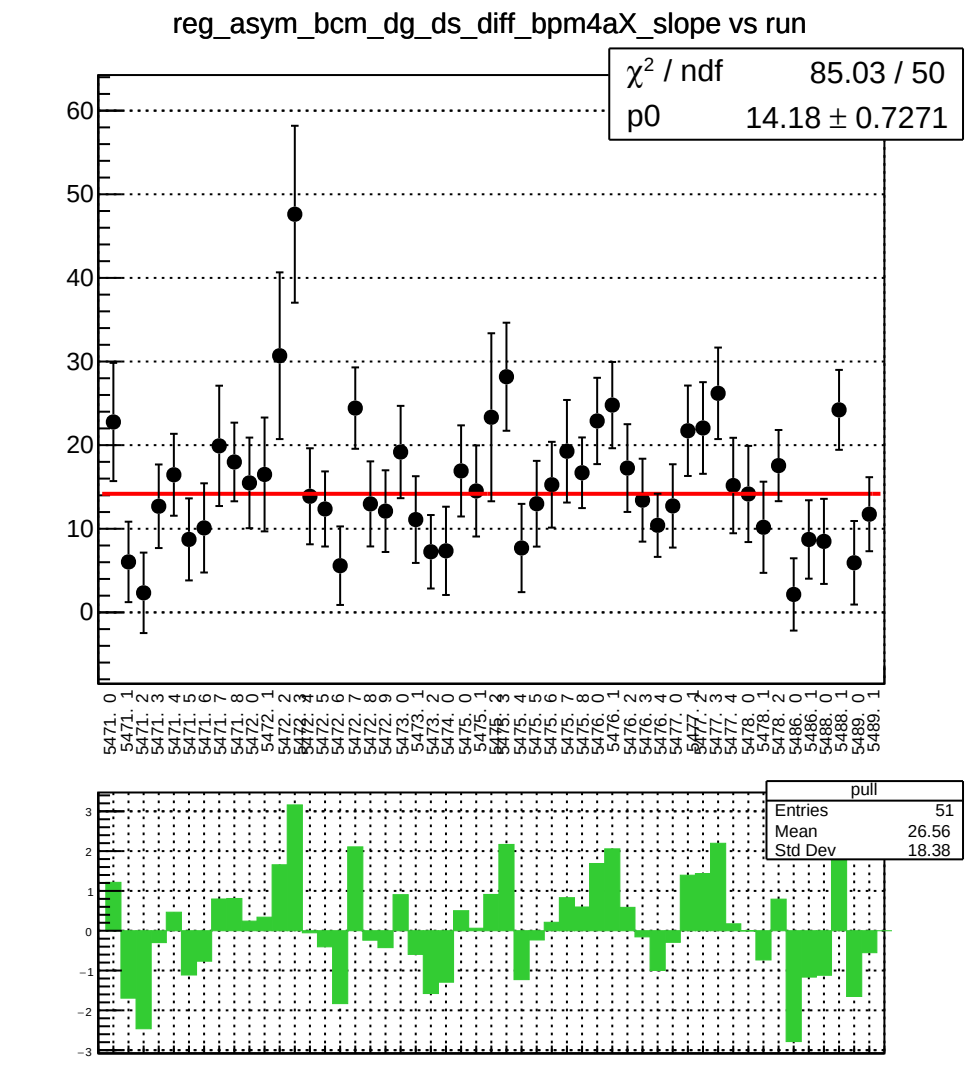

pull1D
Entries 51
Mean −0.1203
Std Dev 1.316

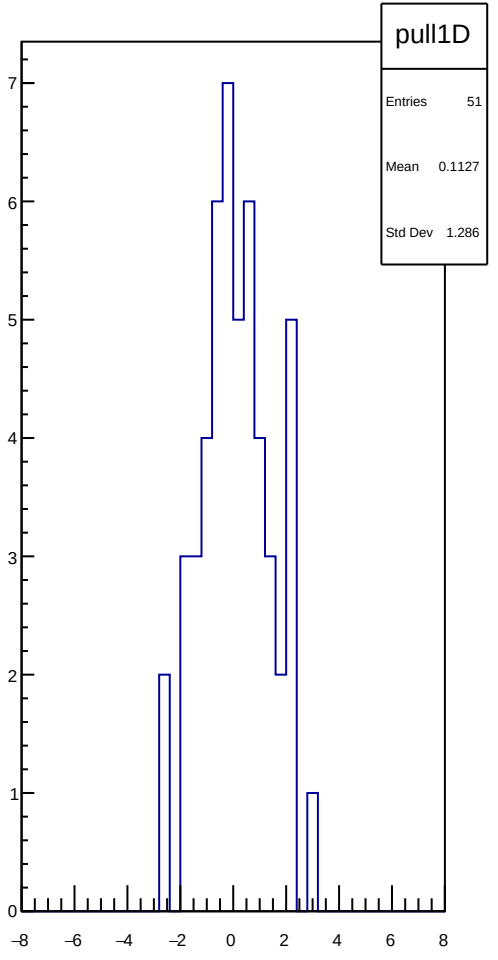

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 126 / 50
p0 6.916 ± 0.4898
pull
Entries 51
Mean 53.38
Std Dev 35.02

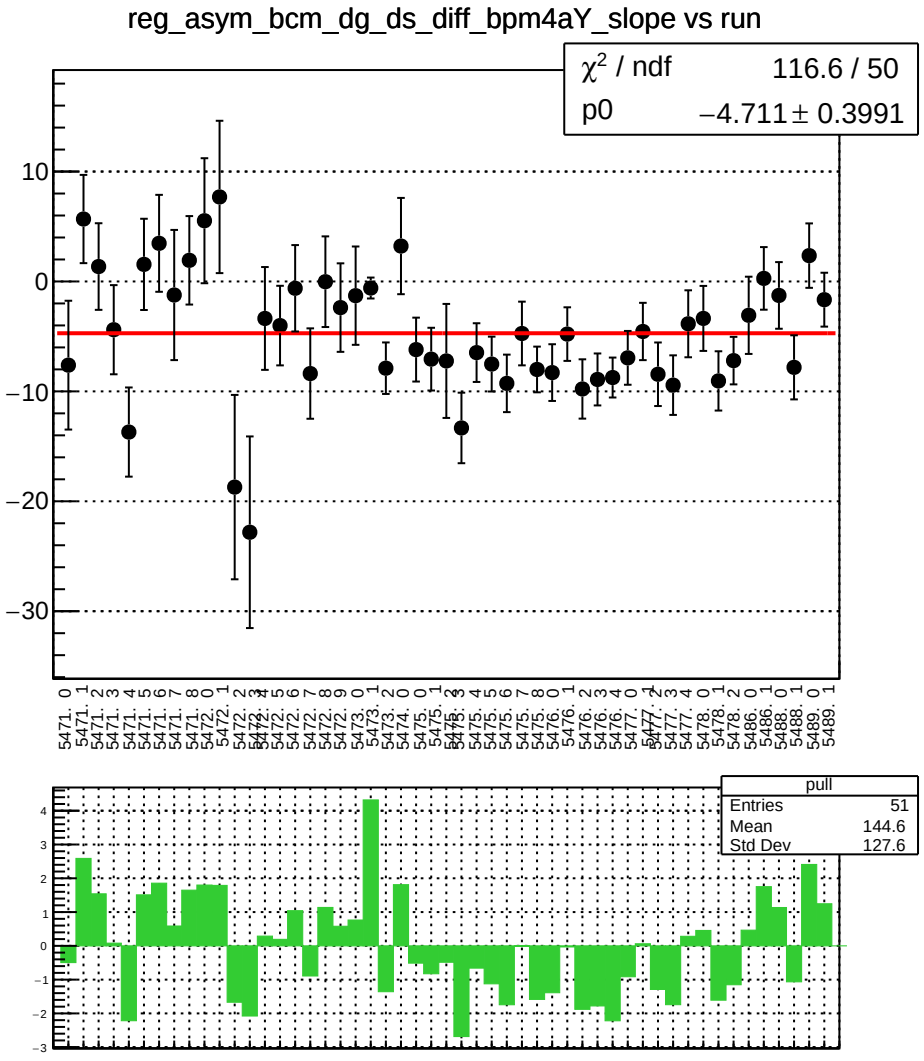

pull1D
Entries 51
Mean 0.1371
Std Dev 1.566

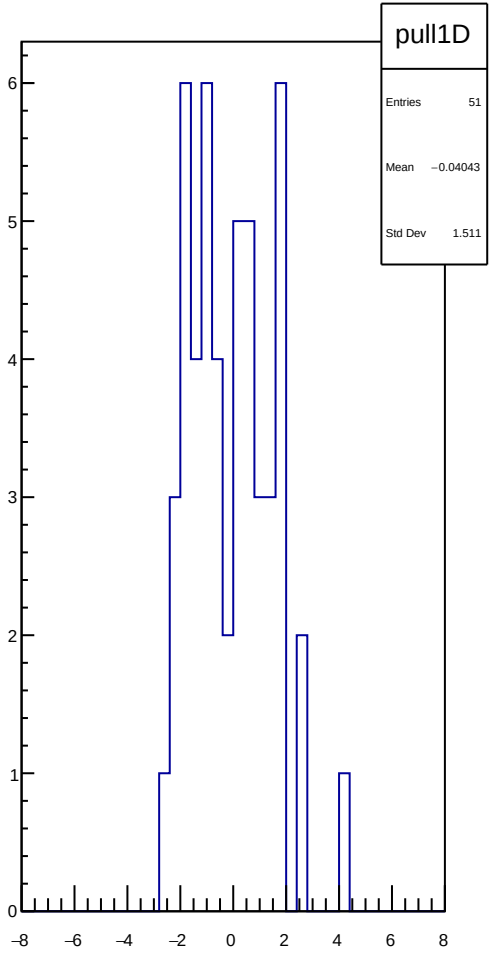

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 137 / 50
p0 0.3169 ± 0.01716
pull
Entries 51
Mean 40.26
Std Dev 12.14

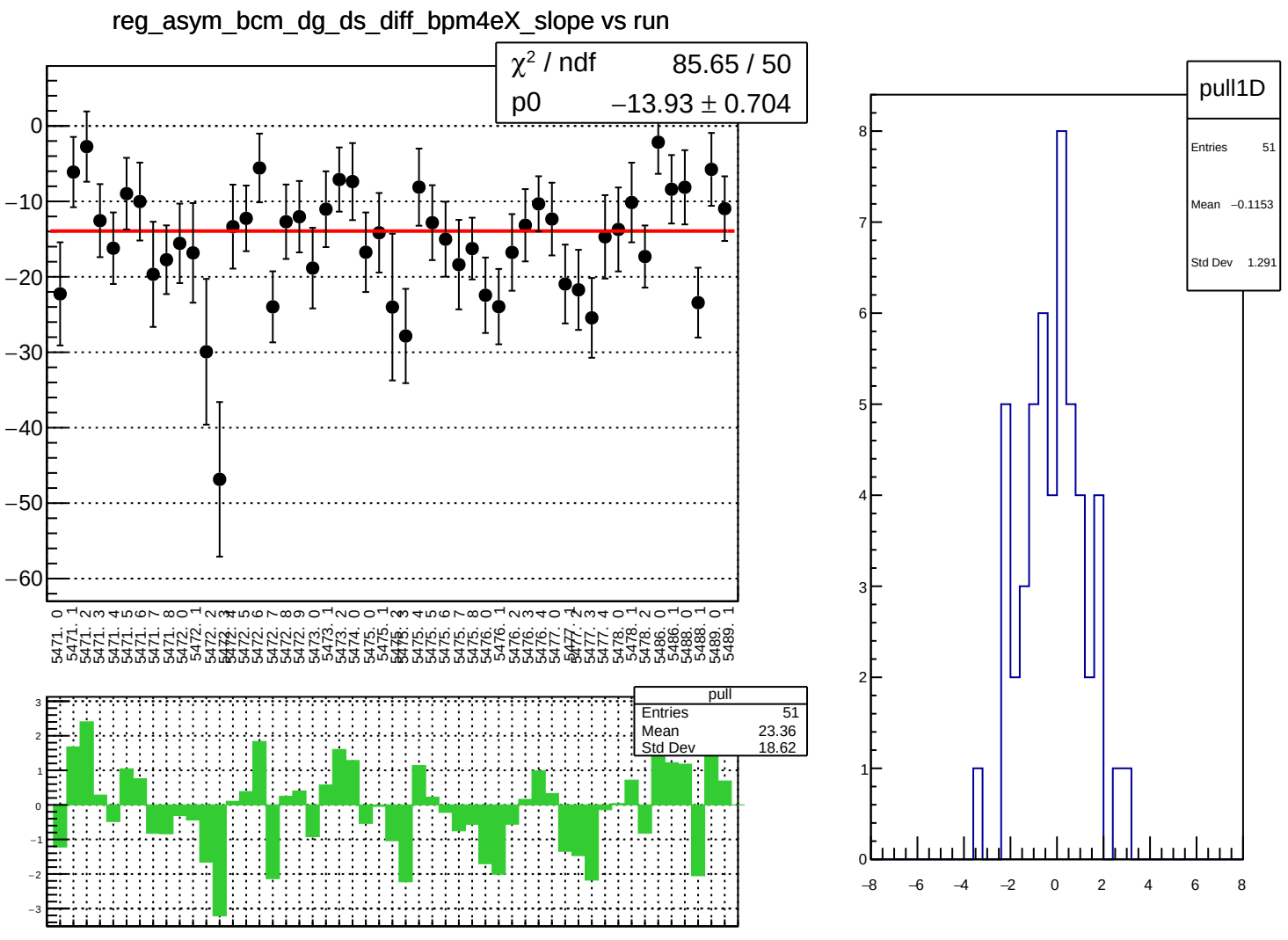

pull1D
Entries 51
Mean 0.2344
Std Dev 1.622

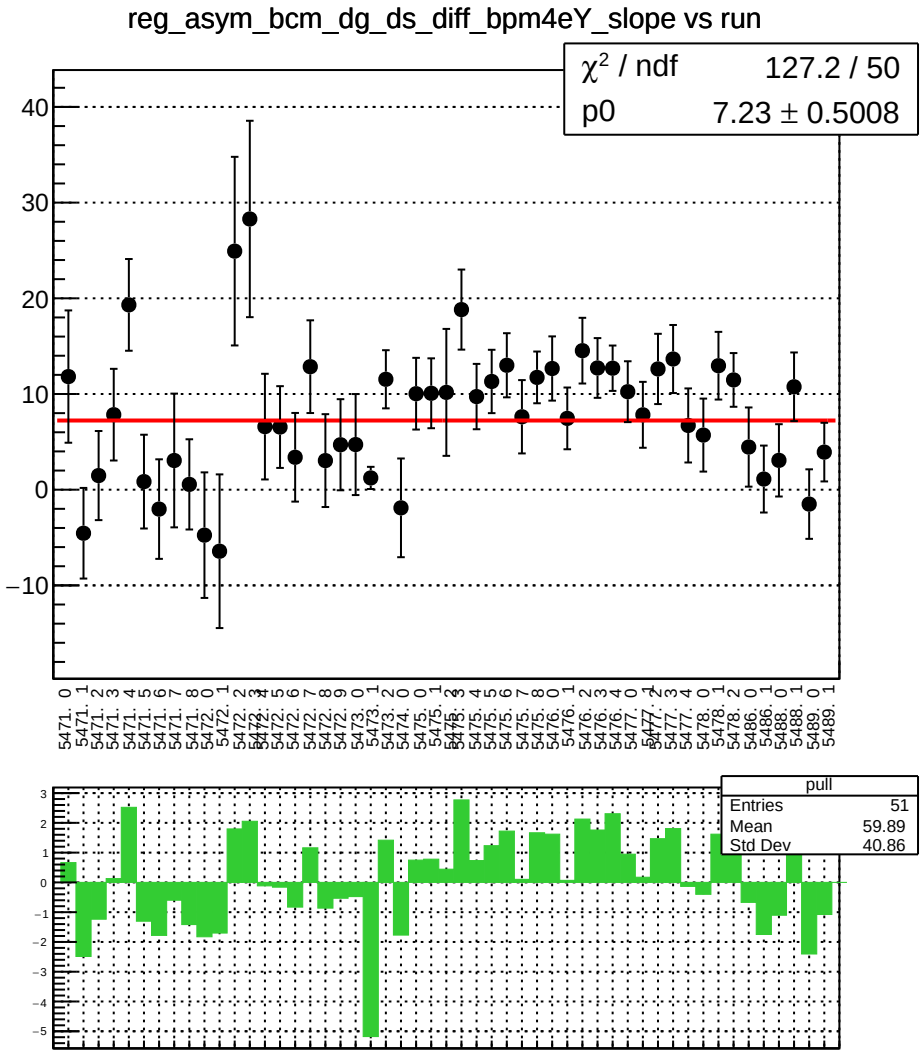

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 85.03 / 50
p0 14.18 ± 0.7271
pull
Entries 51
Mean 26.56
Std Dev 18.38

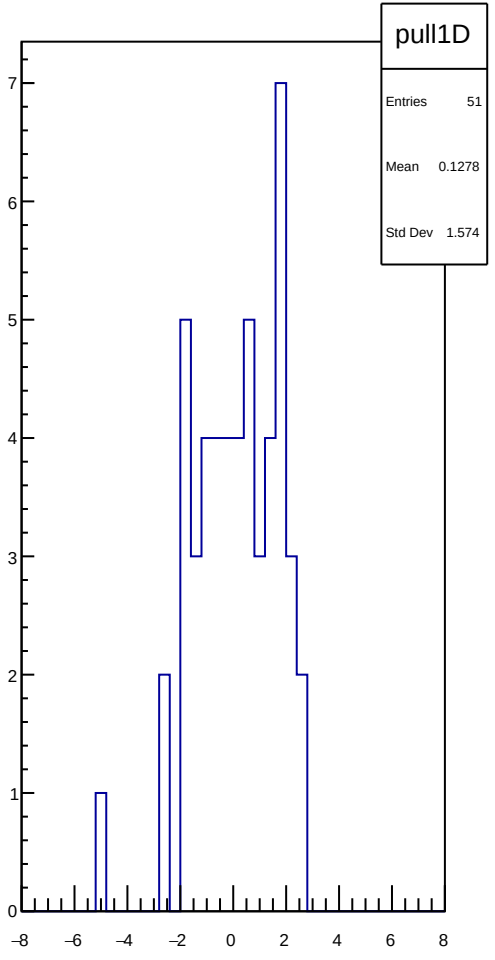

pull1D
Entries 51
Mean 0.1127
Std Dev 1.286

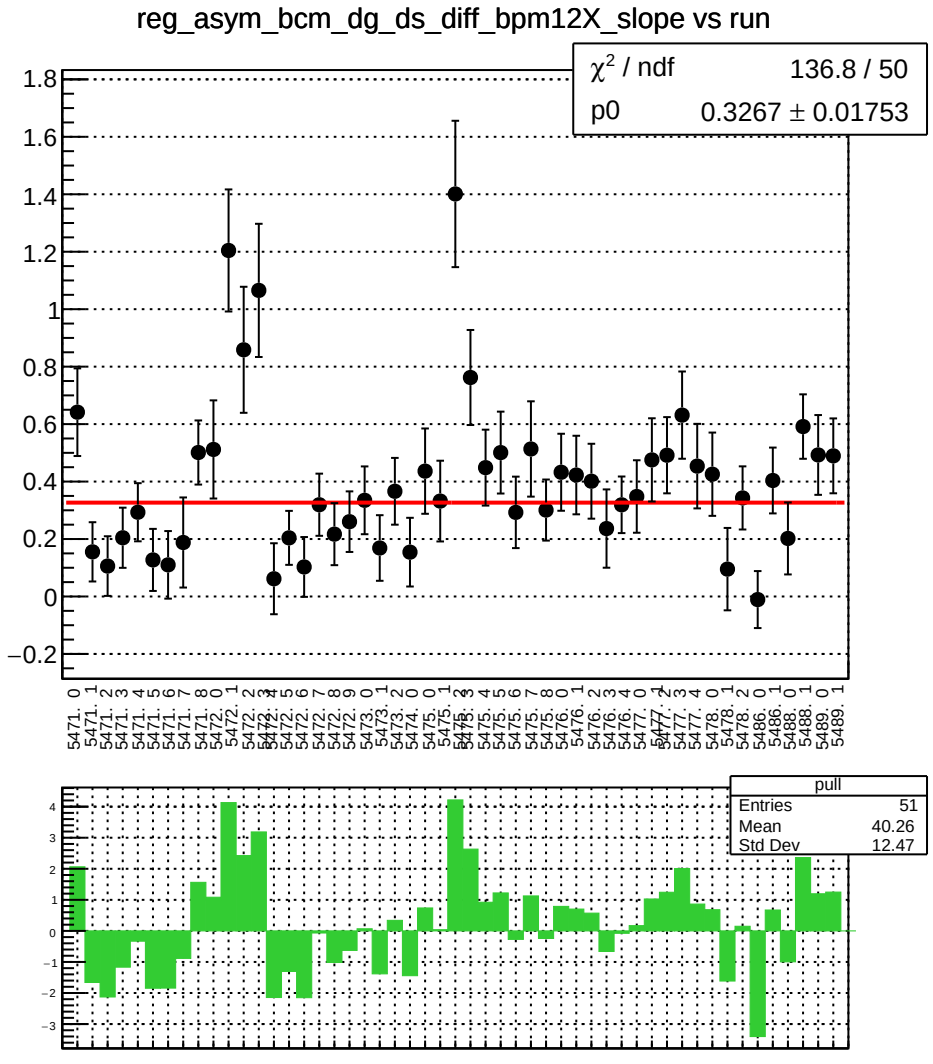

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 116.6 / 50
p0 −4.711 ± 0.3991
pull
Entries 51
Mean 144.6
Std Dev 127.6

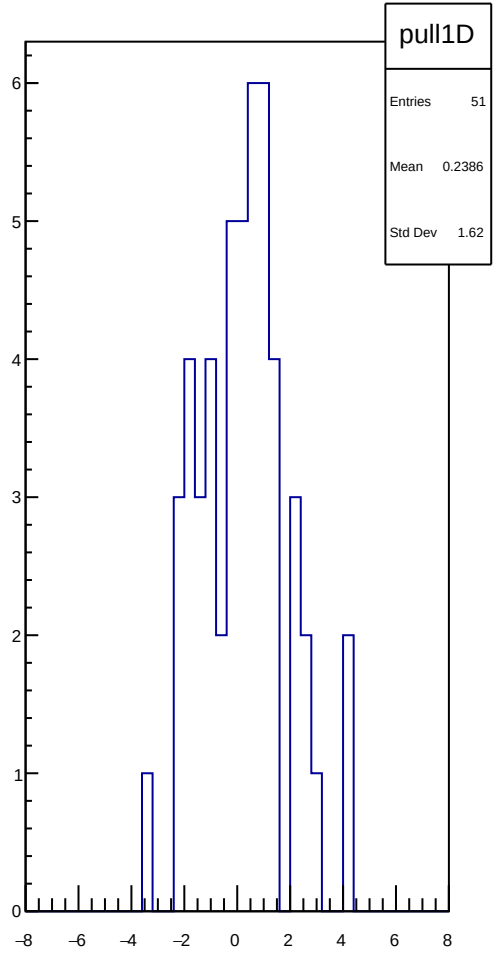

pull1D
Entries 51
Mean −0.04043
Std Dev 1.511

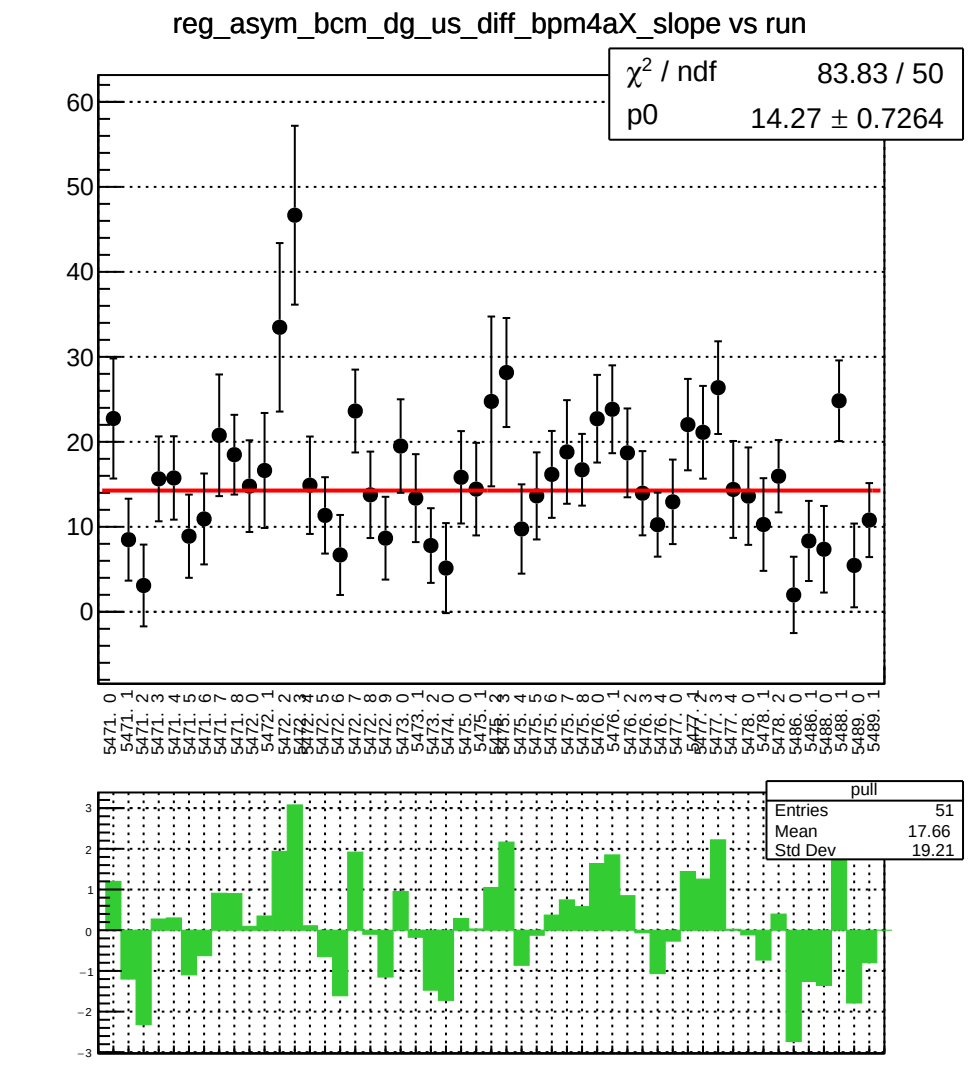

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 85.65 / 50
p0 −13.93 ± 0.704
pull
Entries 51
Mean 23.36
Std Dev 18.62
pull1D
Entries 51
Mean −0.1153
Std Dev 1.291

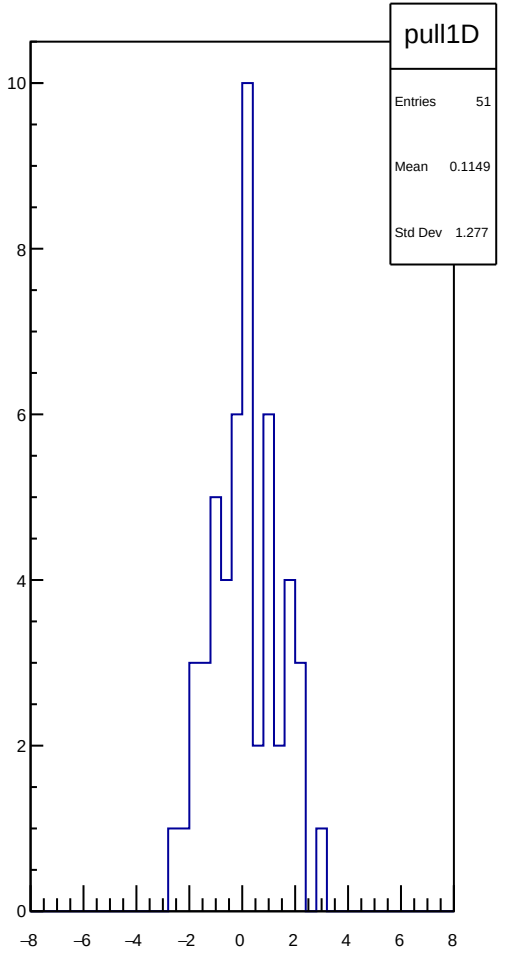

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 127.2 / 50
p0 7.23 ± 0.5008
pull
Entries 51
Mean 59.89
Std Dev 40.86

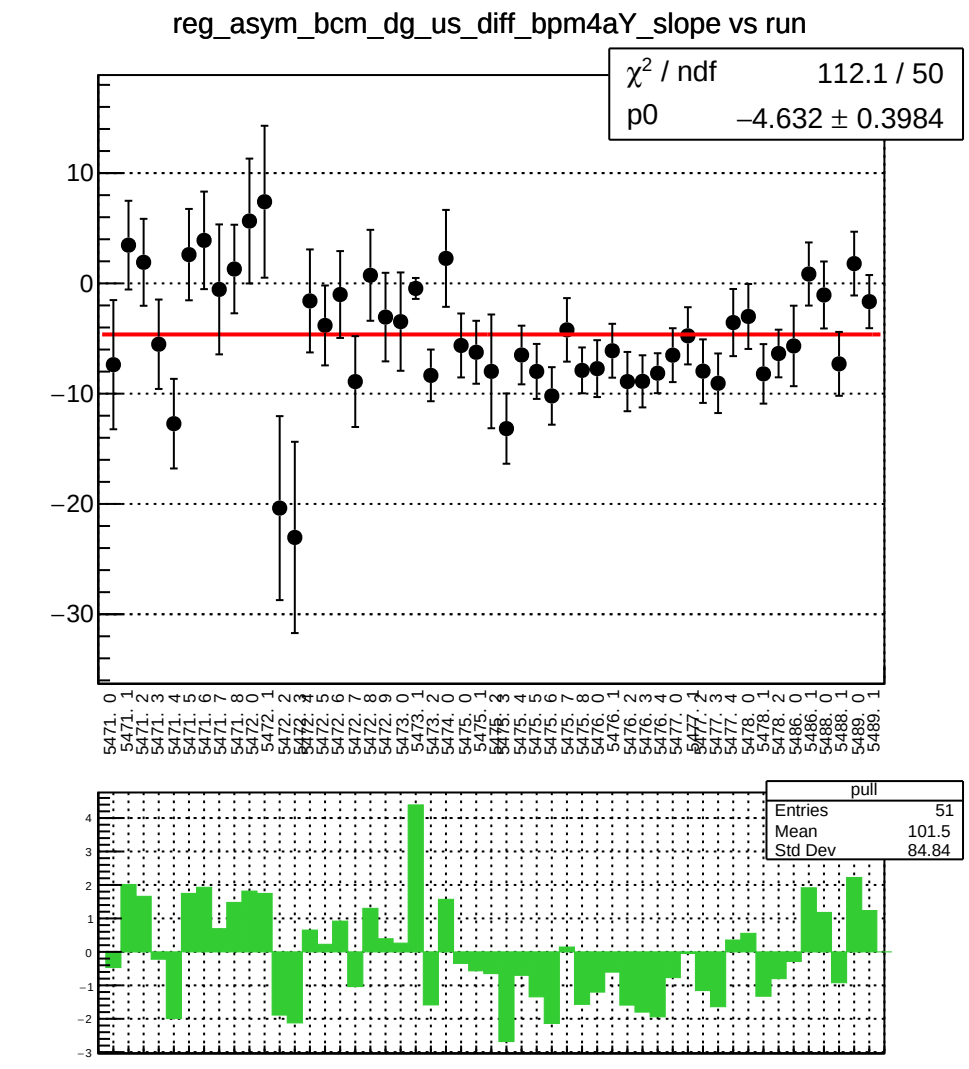

pull1D
Entries 51
Mean 0.1278
Std Dev 1.574

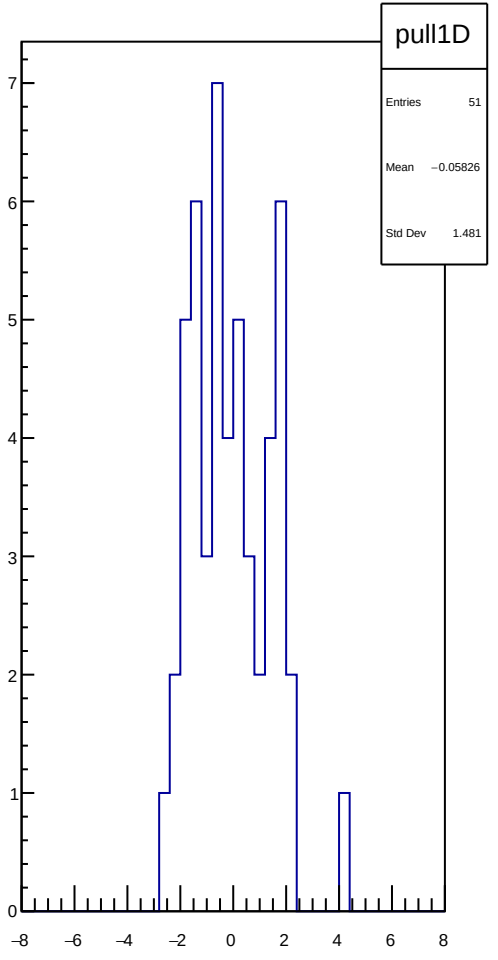

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 136.8 / 50
p0 0.3267 ± 0.01753
pull
Entries 51
Mean 40.26
Std Dev 12.47

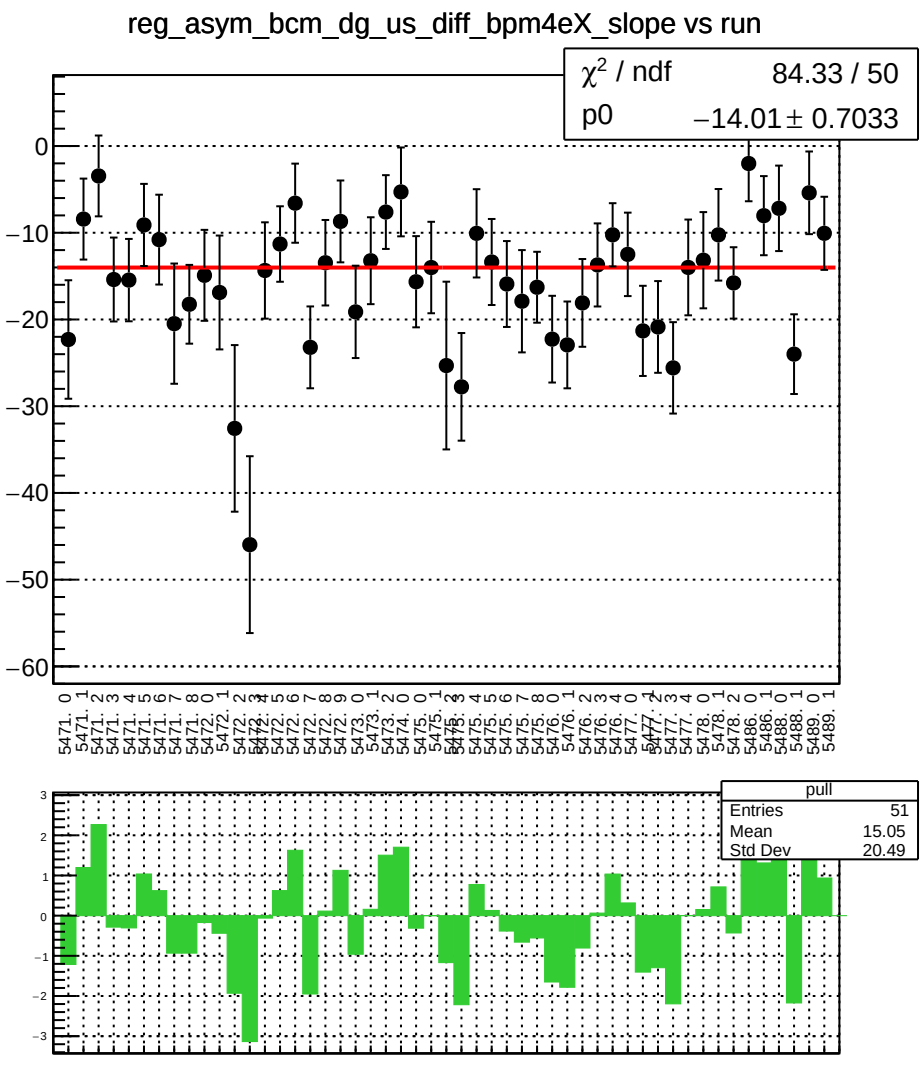

pull1D
Entries 51
Mean 0.2386
Std Dev 1.62

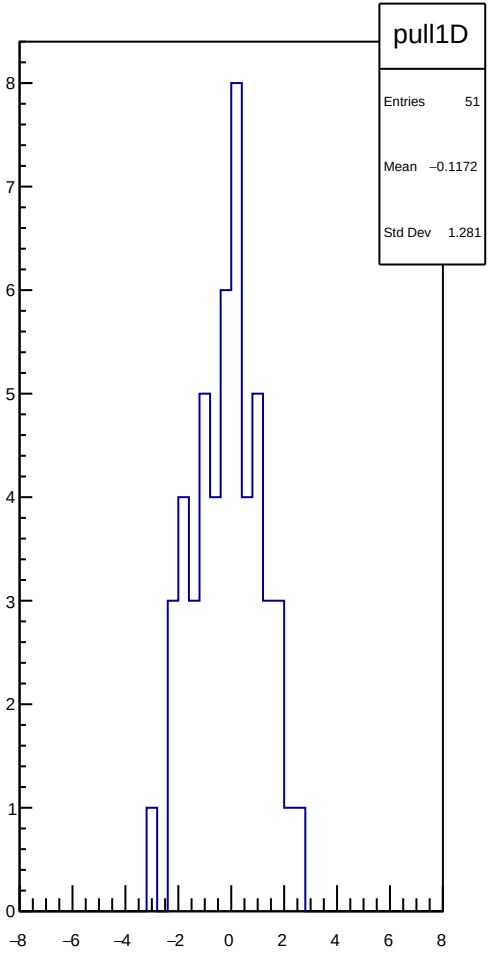

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 83.83 / 50
p0 14.27 ± 0.7264
pull
Entries 51
Mean 17.66
Std Dev 19.21

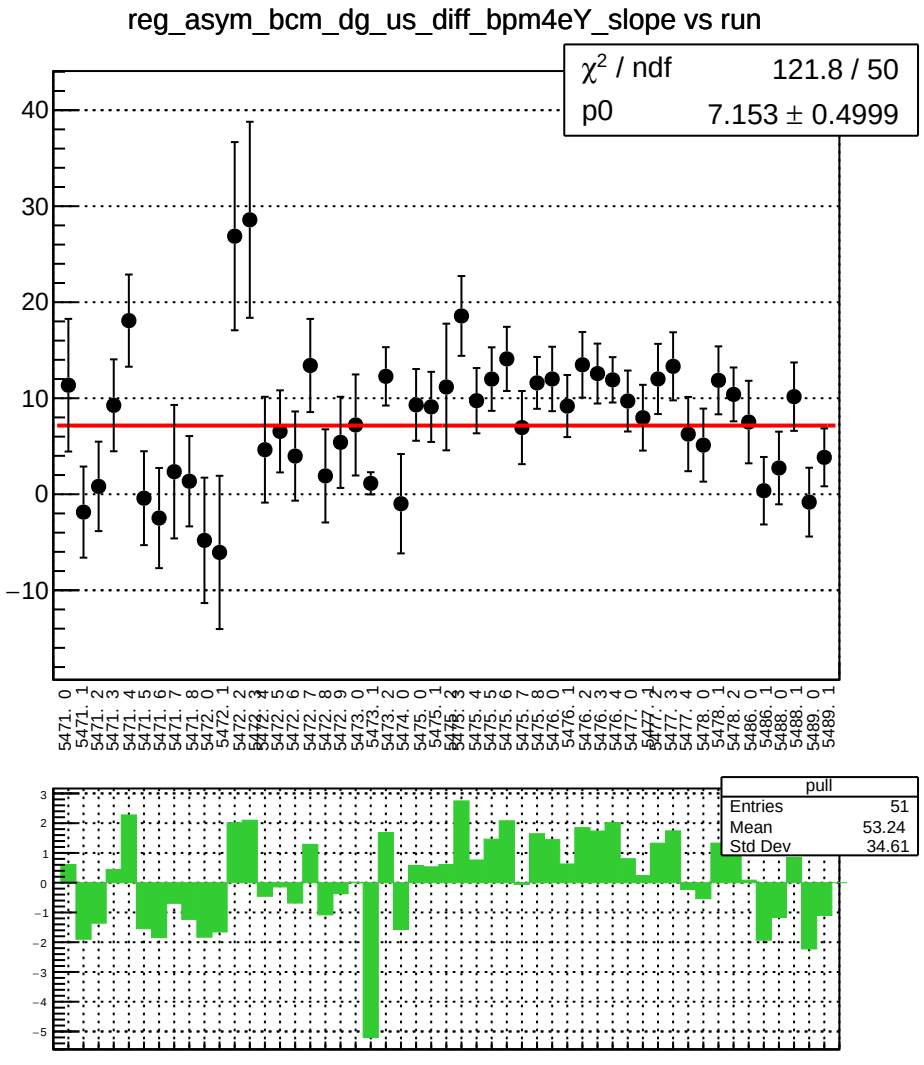

pull1D
Entries 51
Mean 0.1149
Std Dev 1.277

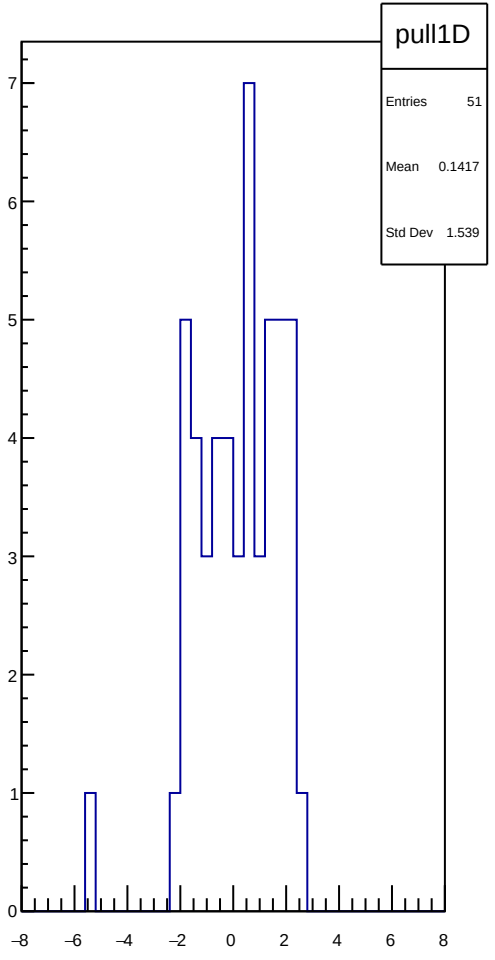

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 112.1 / 50
p0 −4.632 ± 0.3984
pull
Entries 51
Mean 101.5
Std Dev 84.84

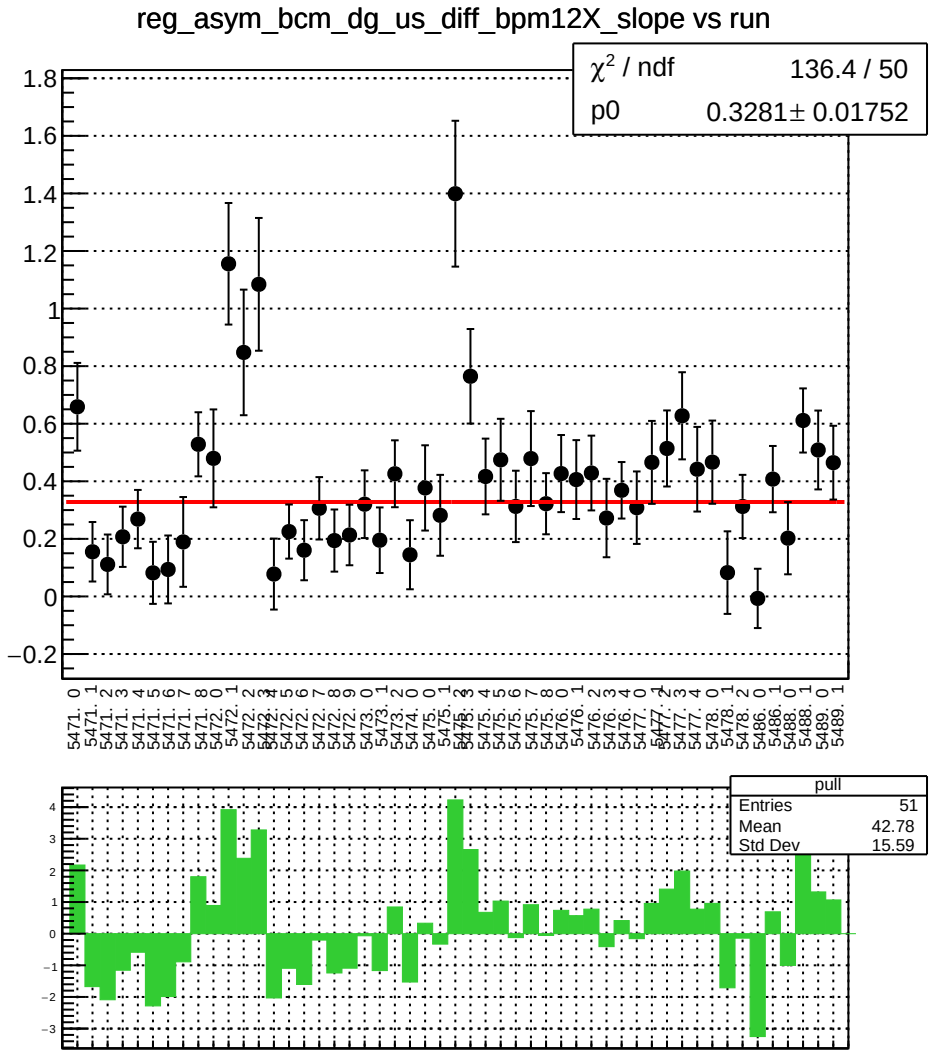

pull1D
Entries 51
Mean −0.05826
Std Dev 1.481

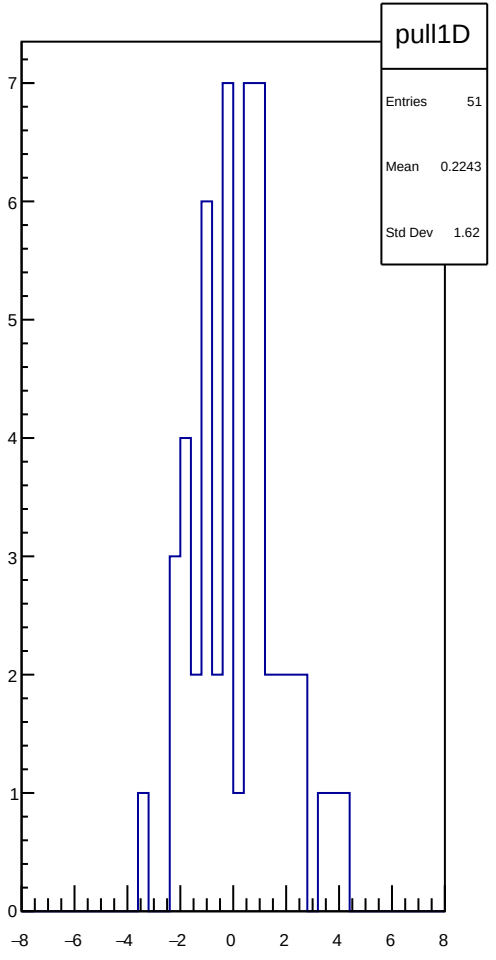

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 84.33 / 50
p0 −14.01 ± 0.7033
pull
Entries 51
Mean 15.05
Std Dev 20.49


pull1D
Entries 51
Mean −0.1172
Std Dev 1.281


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 121.8 / 50
p0 7.153 ± 0.4999
pull
Entries 51
Mean 53.24
Std Dev 34.61


pull1D
Entries 51
Mean 0.1417
Std Dev 1.539


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 136.4 / 50
p0 0.3281± 0.01752
pull
Entries 51
Mean 42.78
Std Dev 15.59


pull1D
Entries 51
Mean 0.2243
Std Dev 1.62