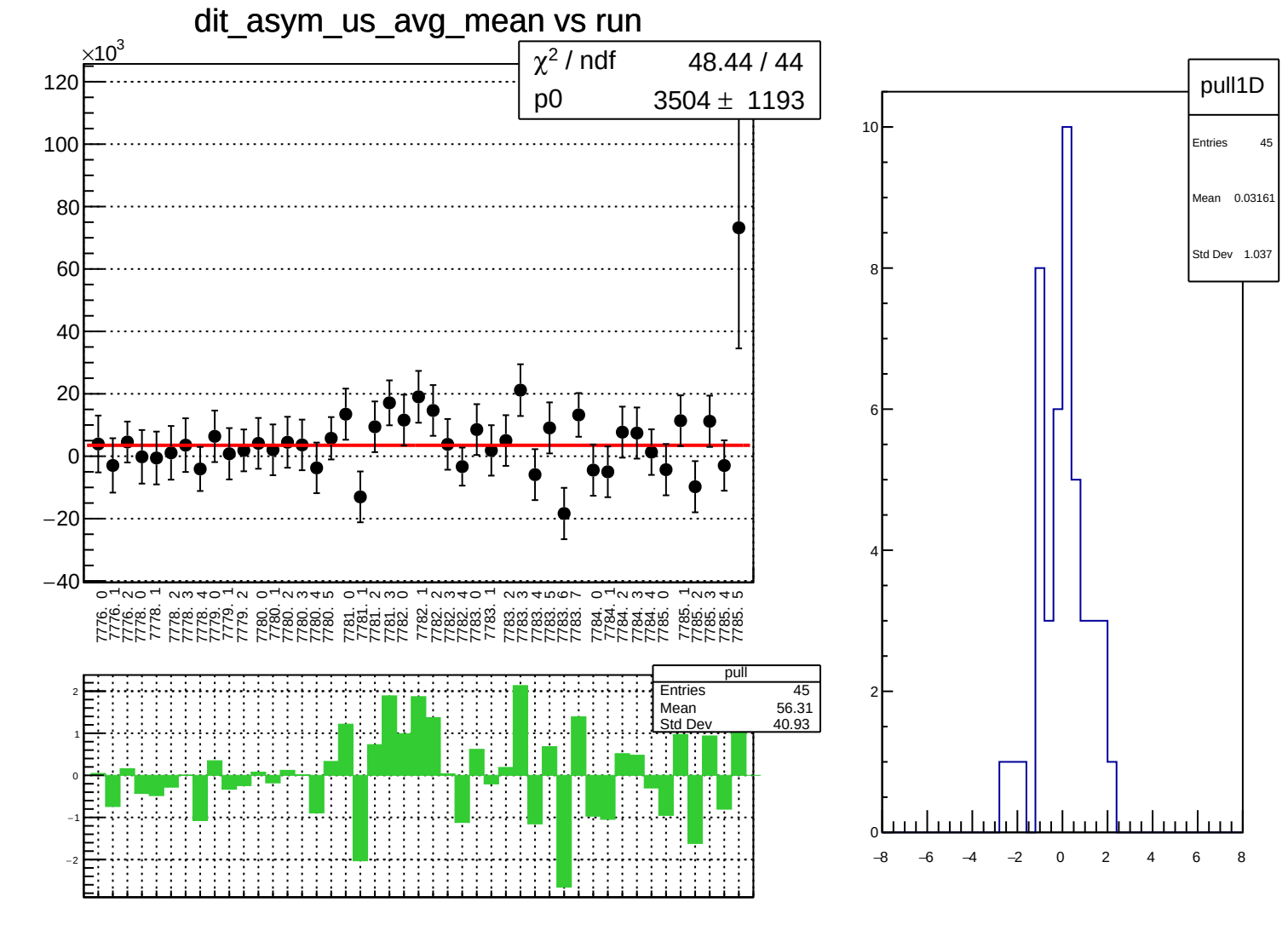
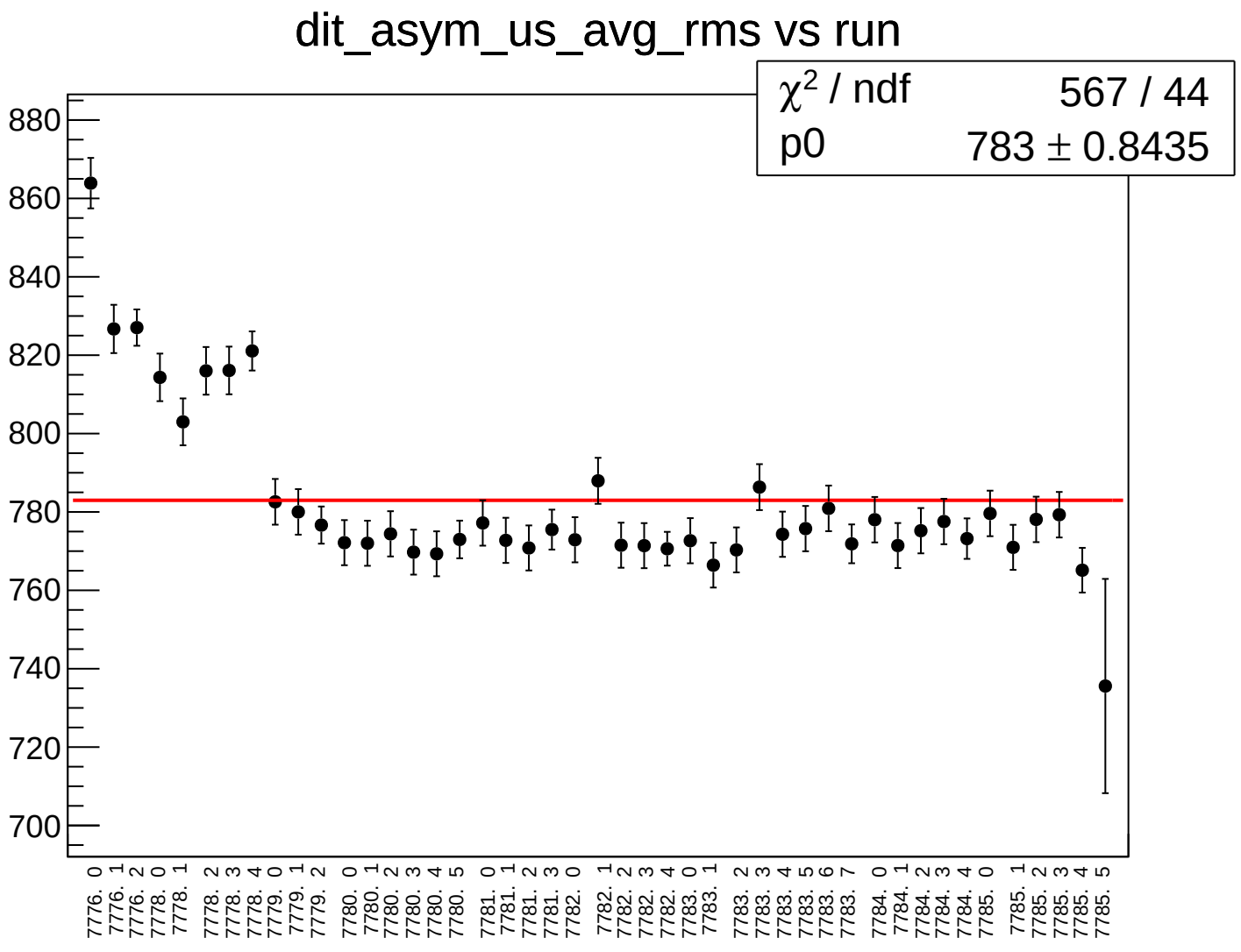
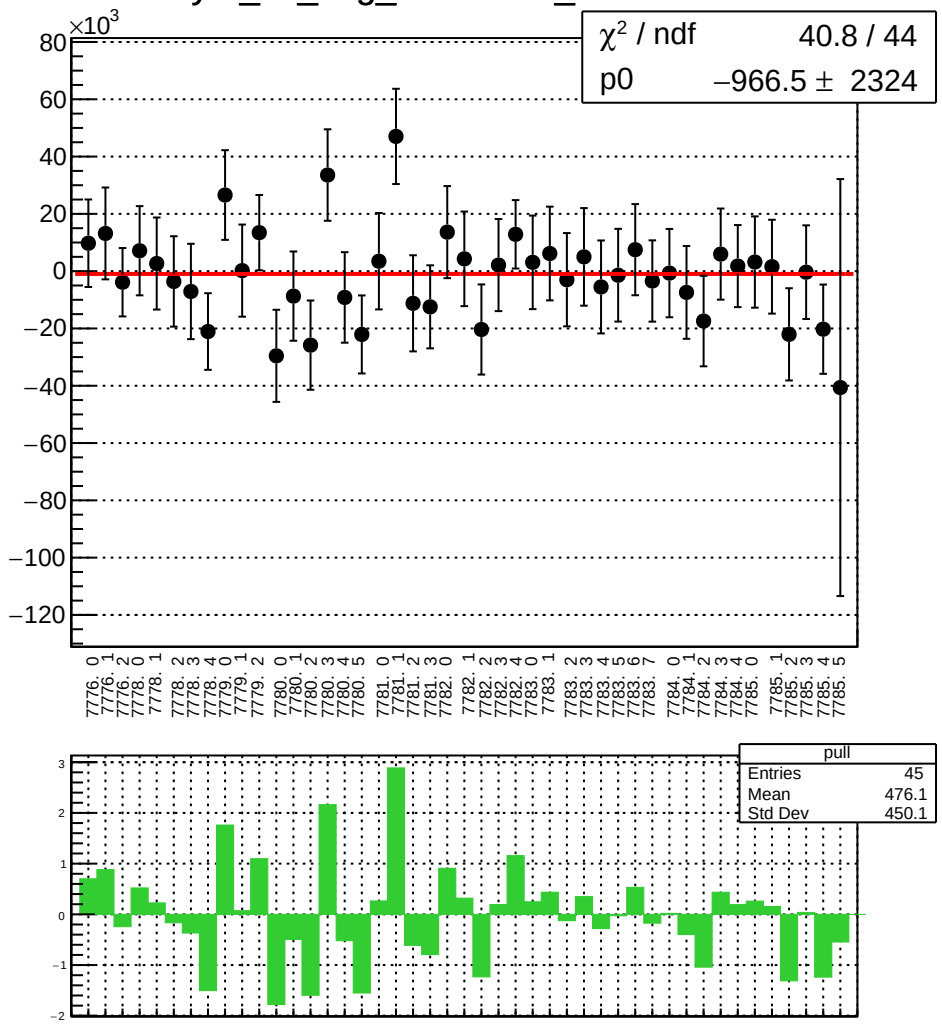
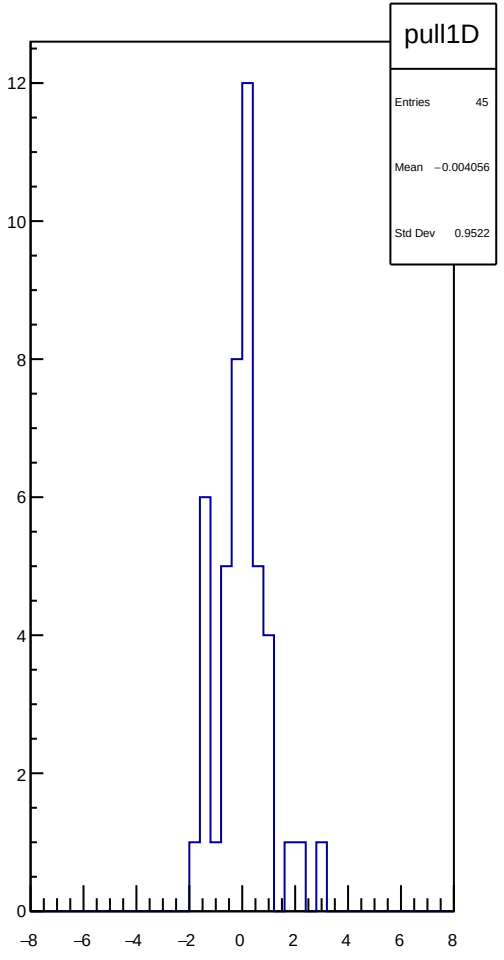
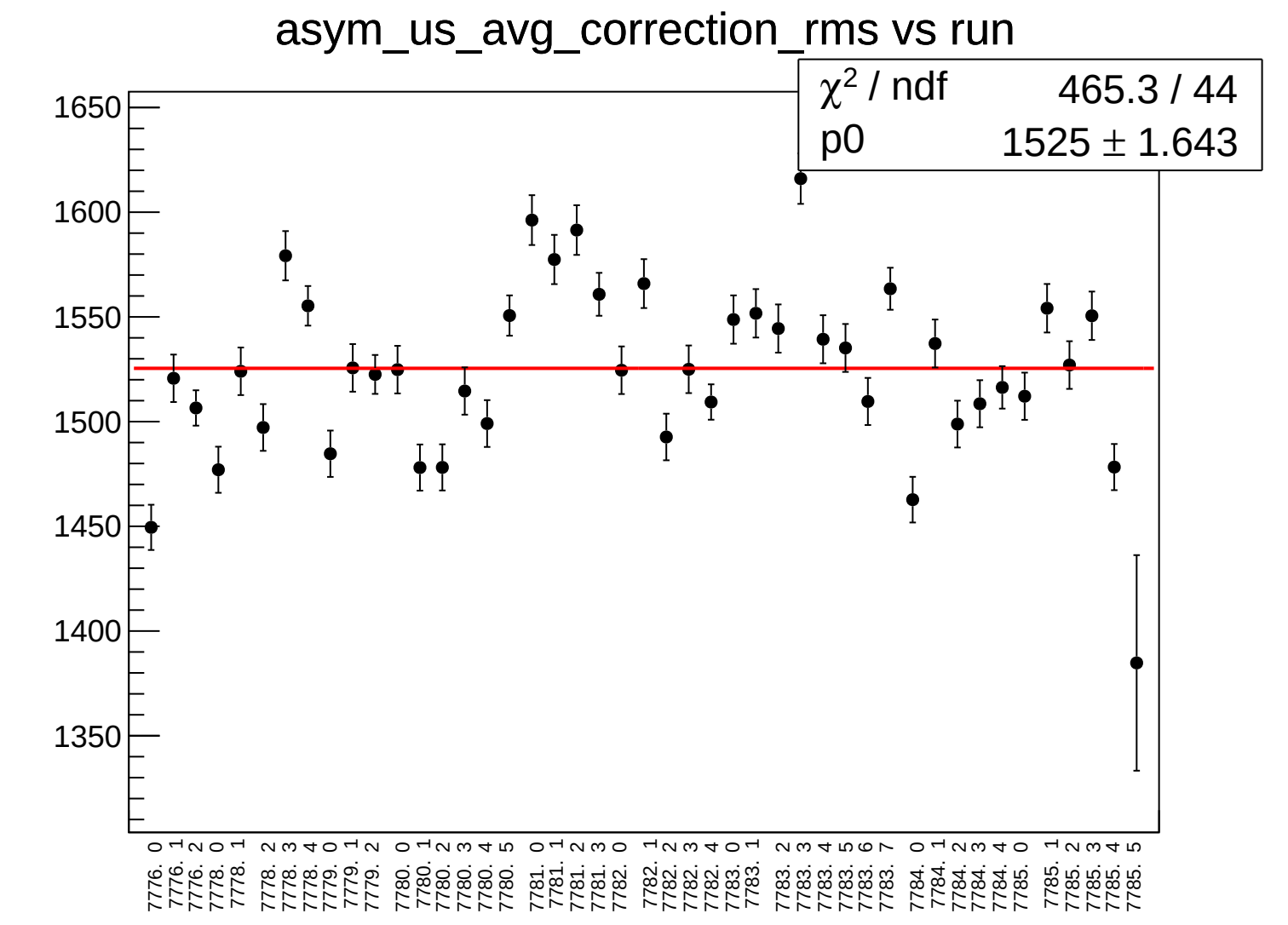
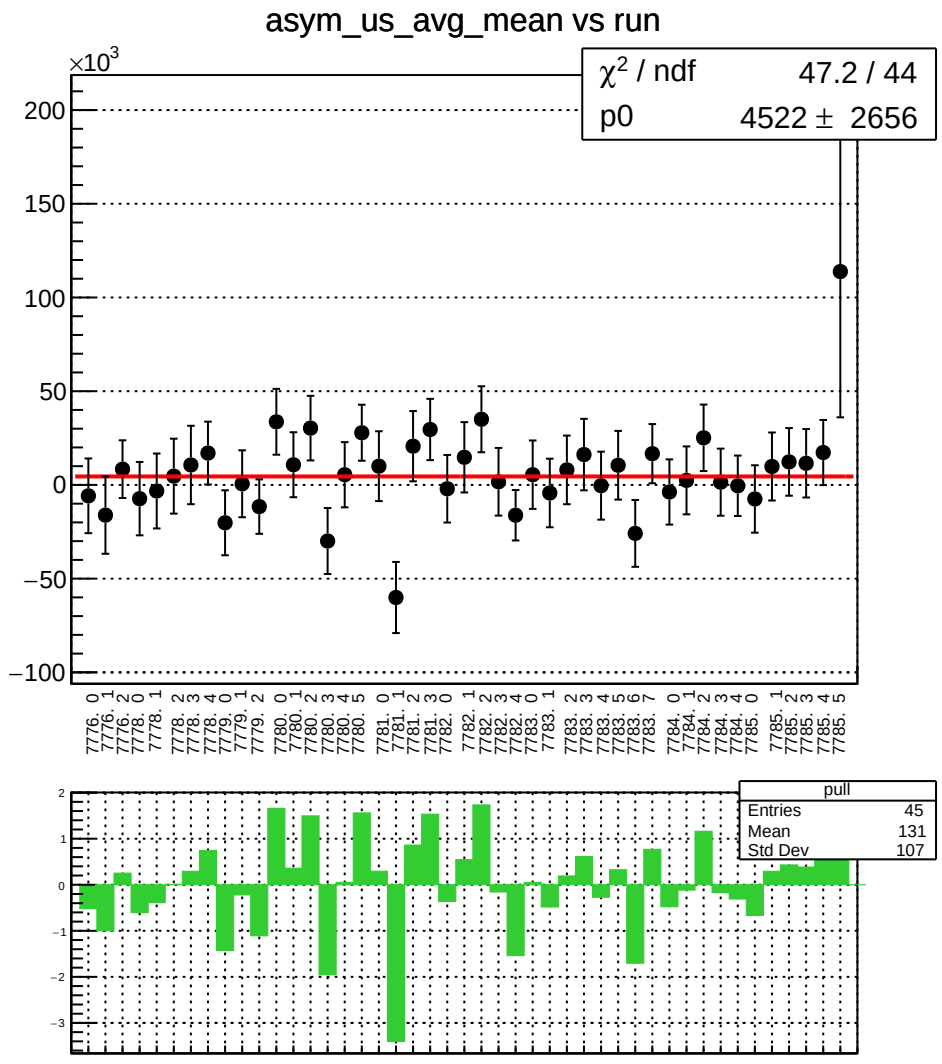

dit_asym_us_avg_mean vs run
×10^3
χ^2 / ndf 48.44 / 44
p0 3504 ± 1193
pull
Entries 45
Mean 56.31
Std Dev 40.93
pull1D
Entries 45
Mean 0.03161
Std Dev 1.037

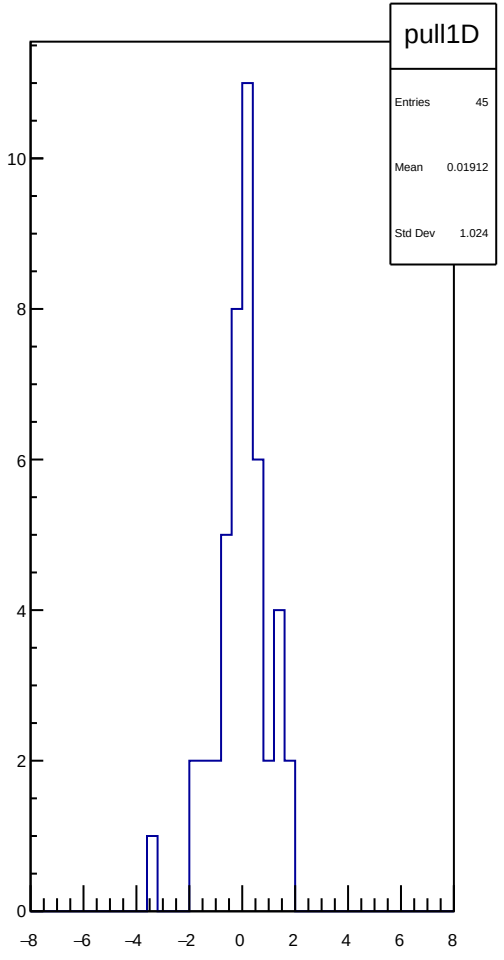

dit_asym_us_avg_rms vs run
χ² / ndf 567 / 44
p0 783 ± 0.8435
880
860
840
820
800
780
760
740
720
700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

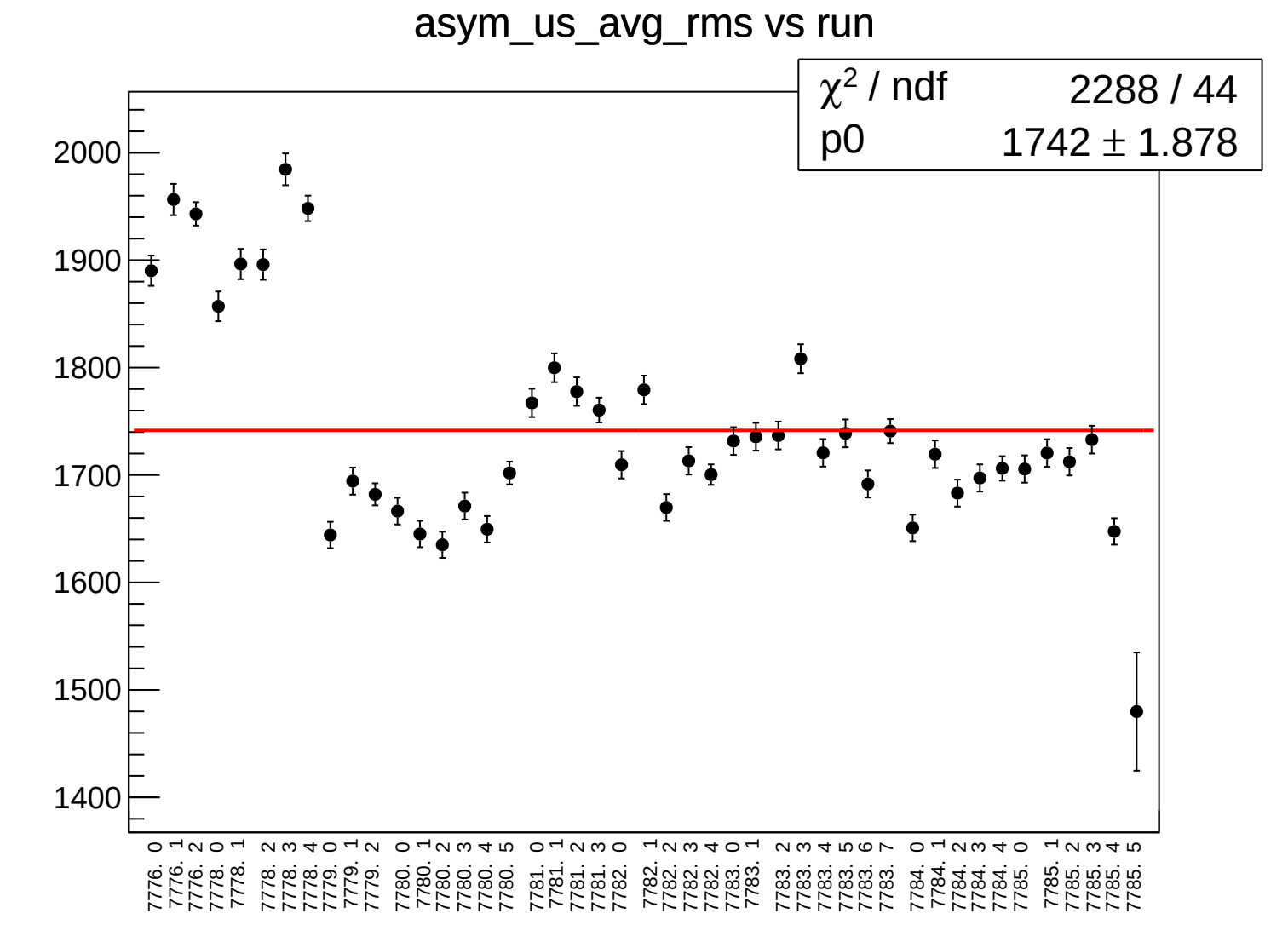

asym_us_avg_correction_mean vs run
χ² / ndf 40.8 / 44
p0 −966.5 ± 2324
×10³
pull
Entries 45
Mean 476.1
Std Dev 450.1

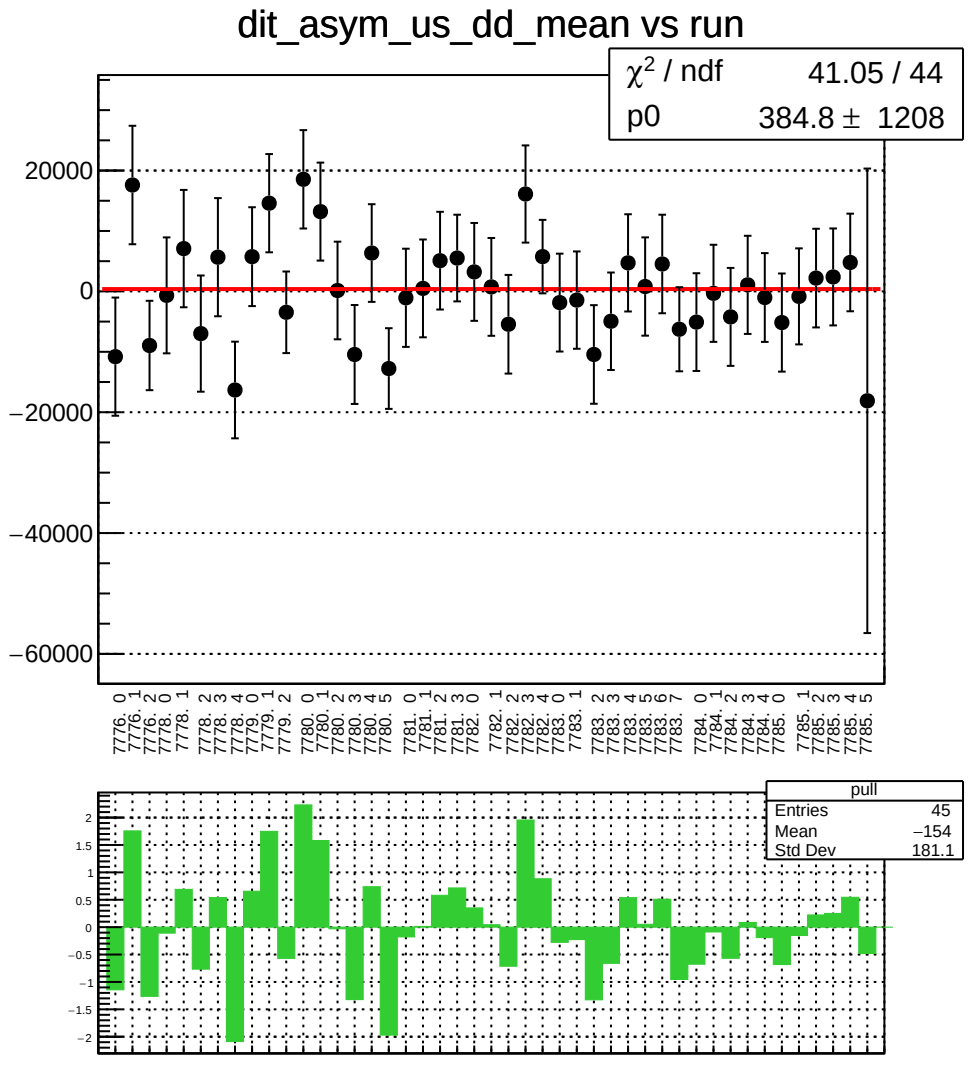

pull1D
Entries 45
Mean −0.004056
Std Dev 0.9522

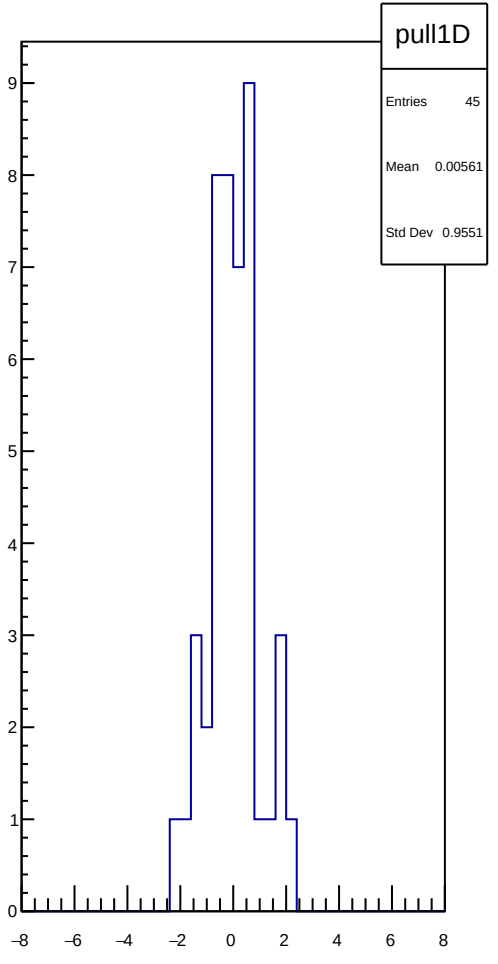

asym_us_avg_correction_rms vs run
χ² / ndf 465.3 / 44
p0 1525 ± 1.643
1650
1600
1550
1500
1450
1400
1350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

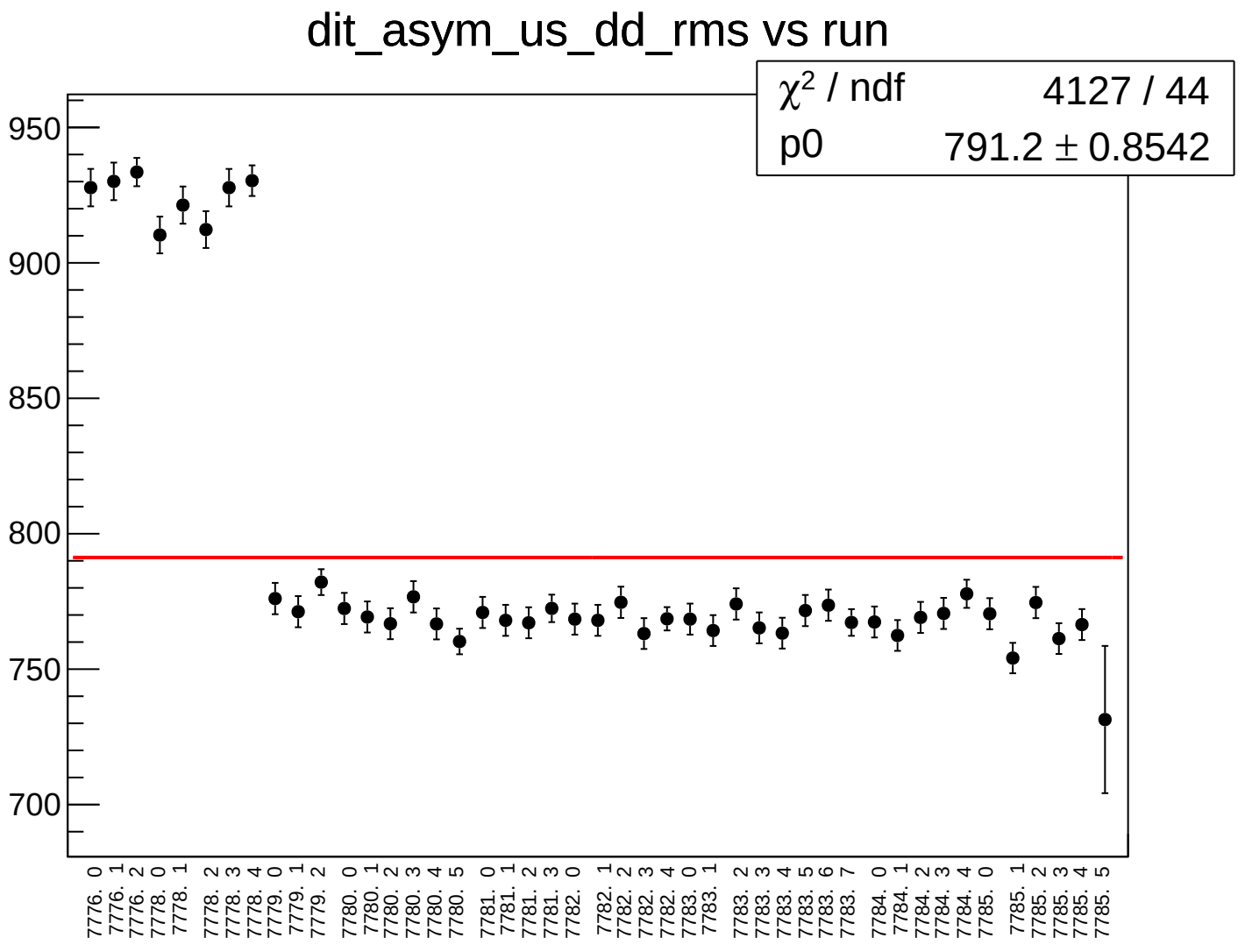

asym_us_avg_mean vs run
×10^3
χ^2 / ndf 47.2 / 44
p0 4522 ± 2656
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 131
Std Dev 107
2
1
0
−1
−2
−3

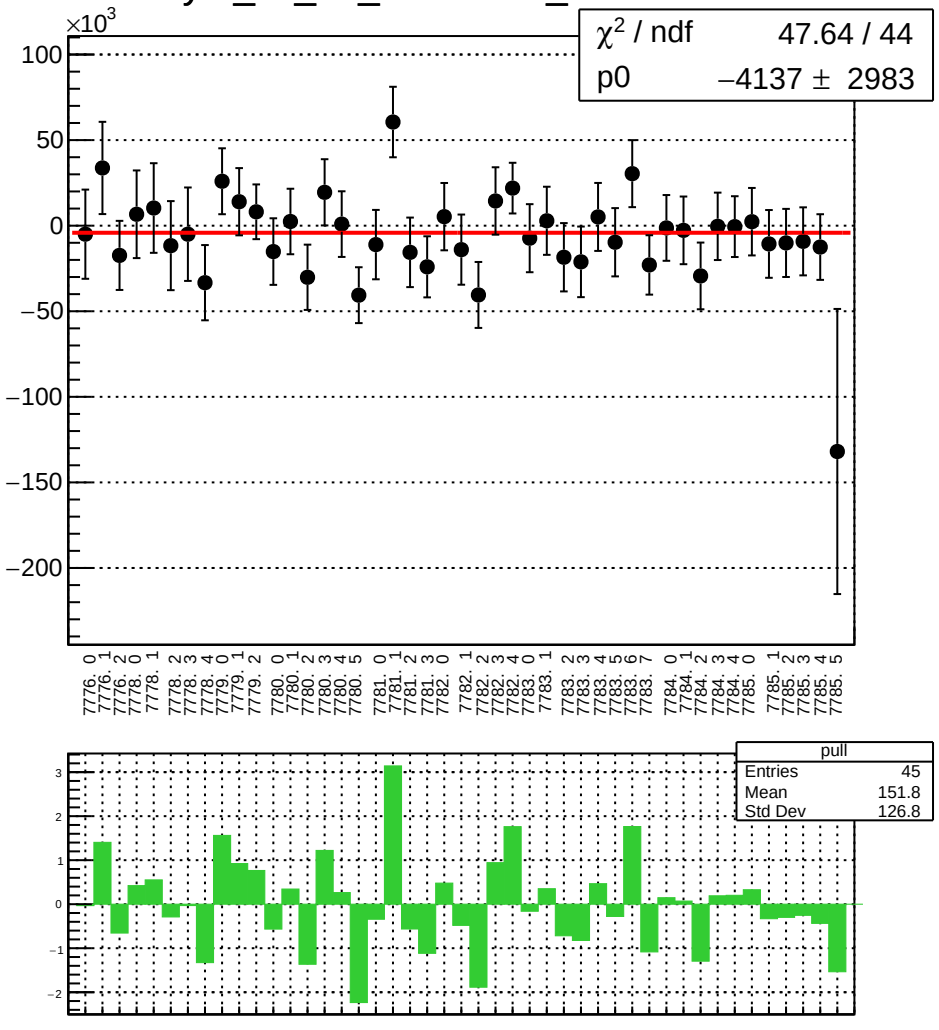

pull1D
Entries 45
Mean 0.01912
Std Dev 1.024
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

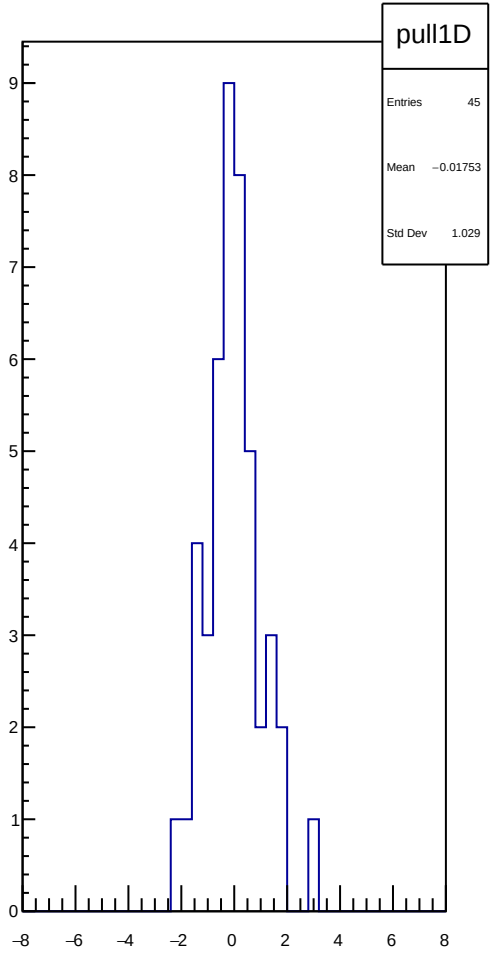

asym_us_avg_rms vs run
χ² / ndf 2288 / 44
p0 1742 ± 1.878
2000
1900
1800
1700
1600
1500
1400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

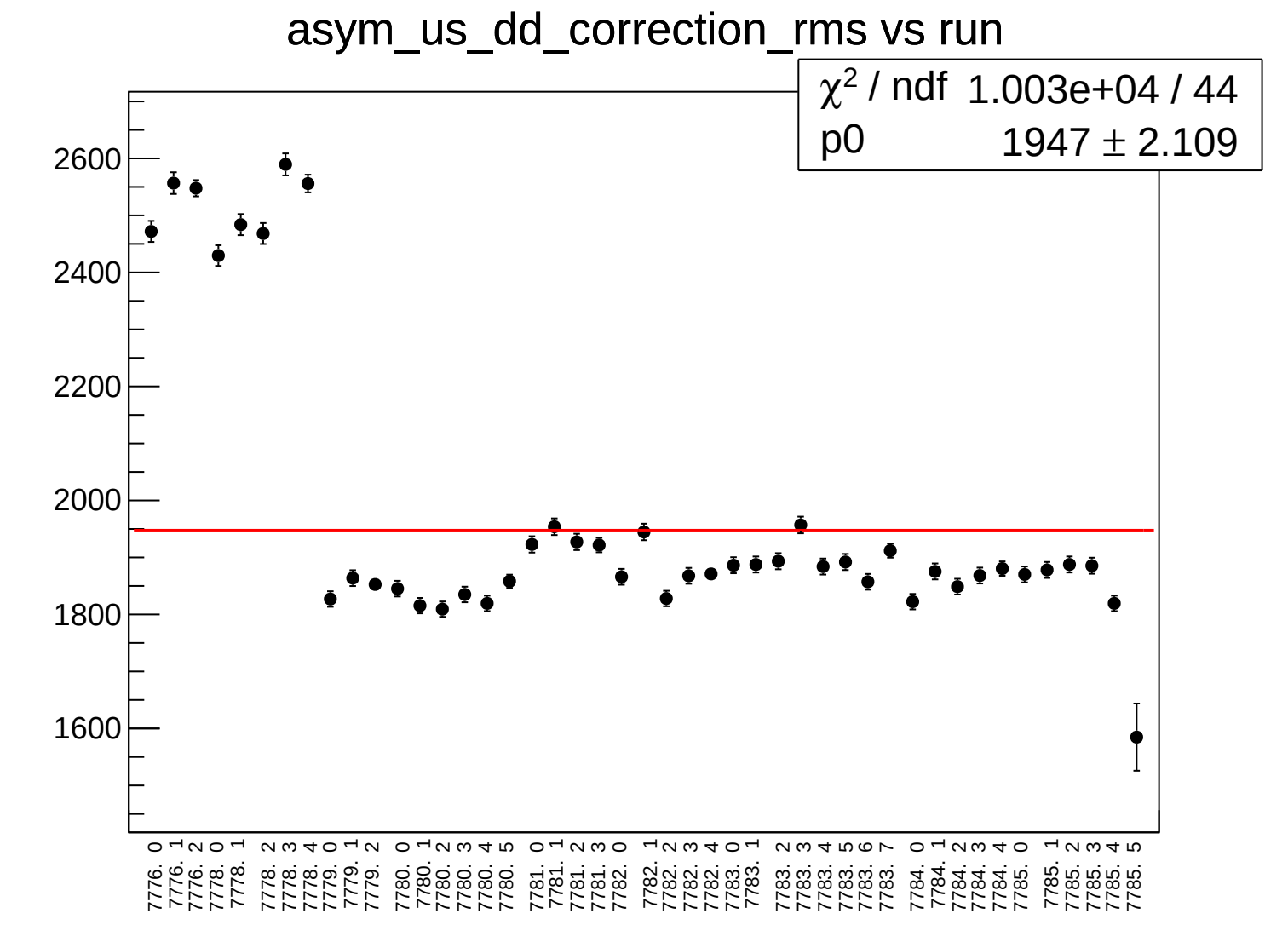

dit_asym_us_dd_mean vs run
χ² / ndf 41.05 / 44
p0 384.8 ± 1208
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −154
Std Dev 181.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

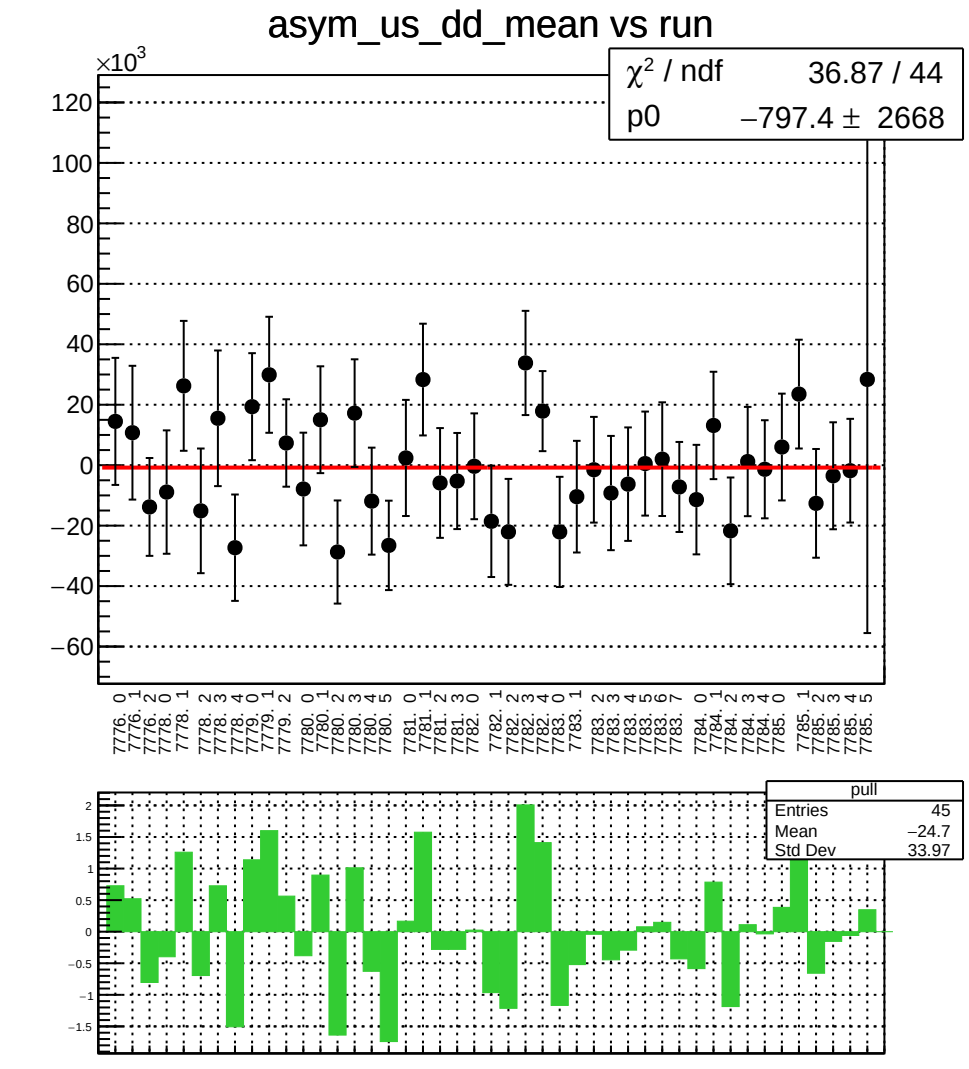

pull1D
Entries 45
Mean 0.00561
Std Dev 0.9551
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

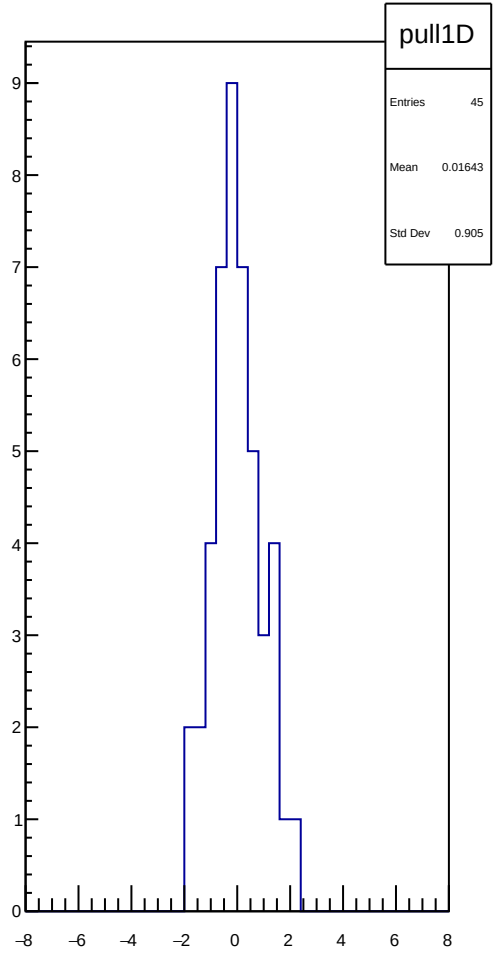

dit_asym_us_dd_rms vs run
χ² / ndf 4127 / 44
p0 791.2 ± 0.8542
950
900
850
800
750
700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

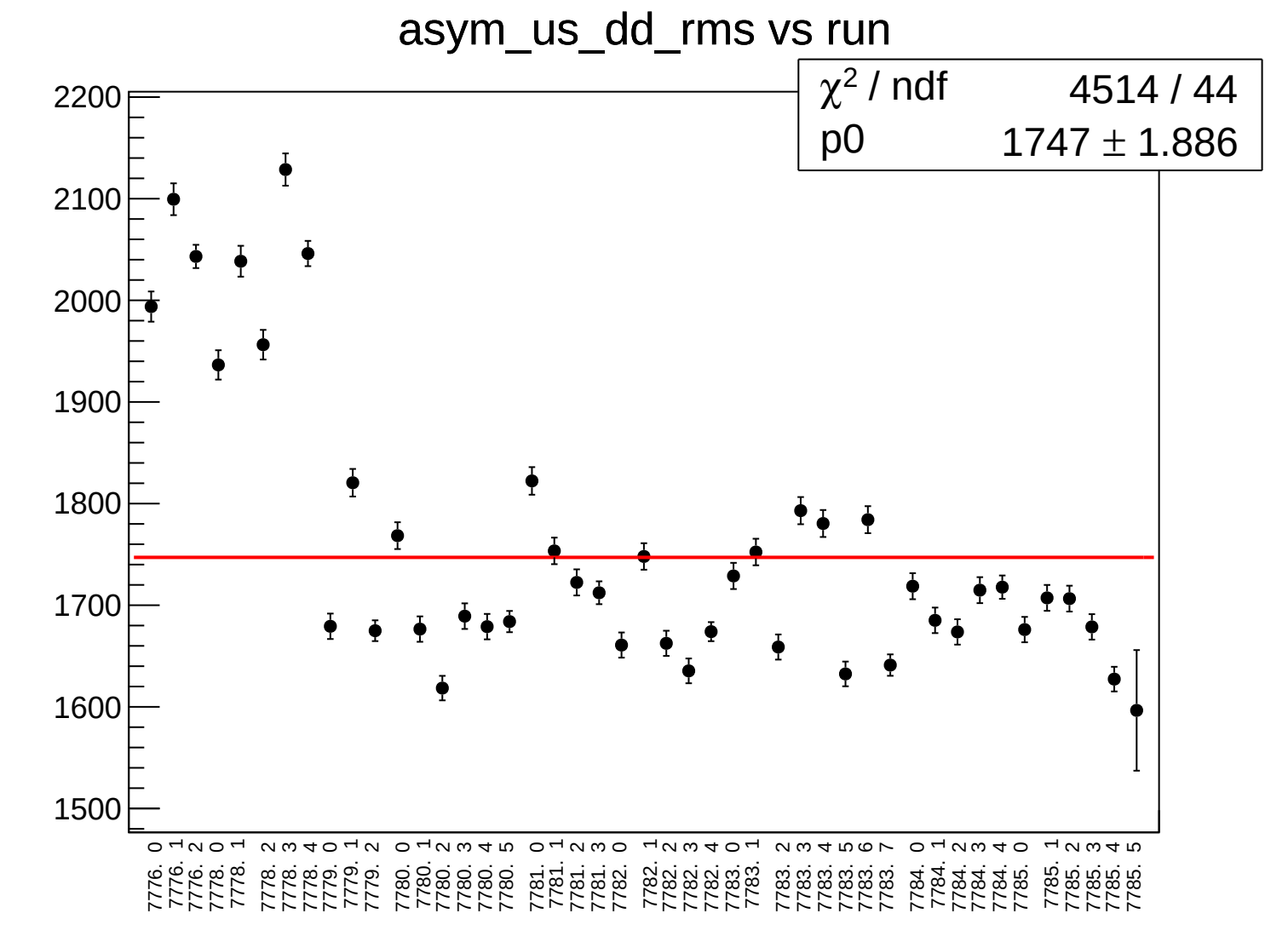

asym_us_dd_correction_mean vs run
×10^3
χ² / ndf 47.64 / 44
p0 −4137 ± 2983
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 151.8
Std Dev 126.8
3
2
1
0
−1
−2

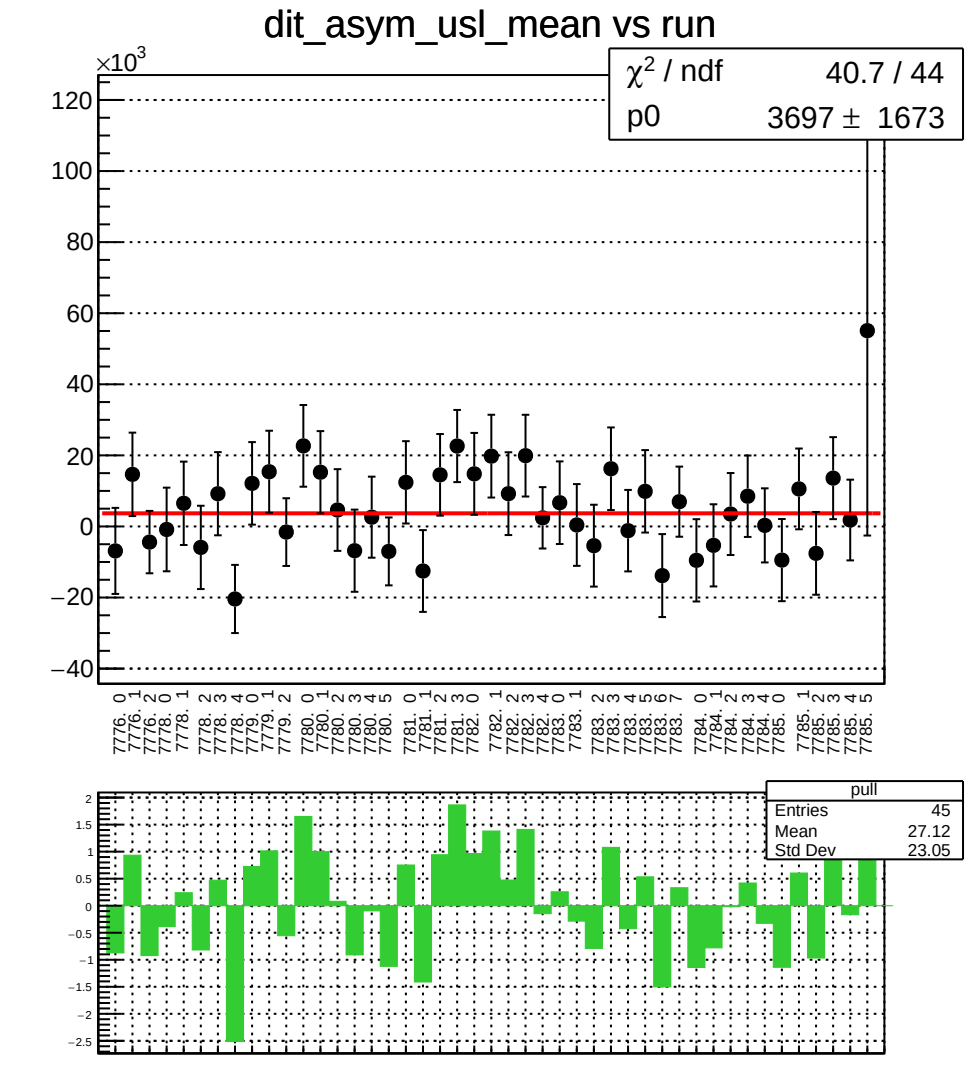

pull1D
Entries 45
Mean −0.01753
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

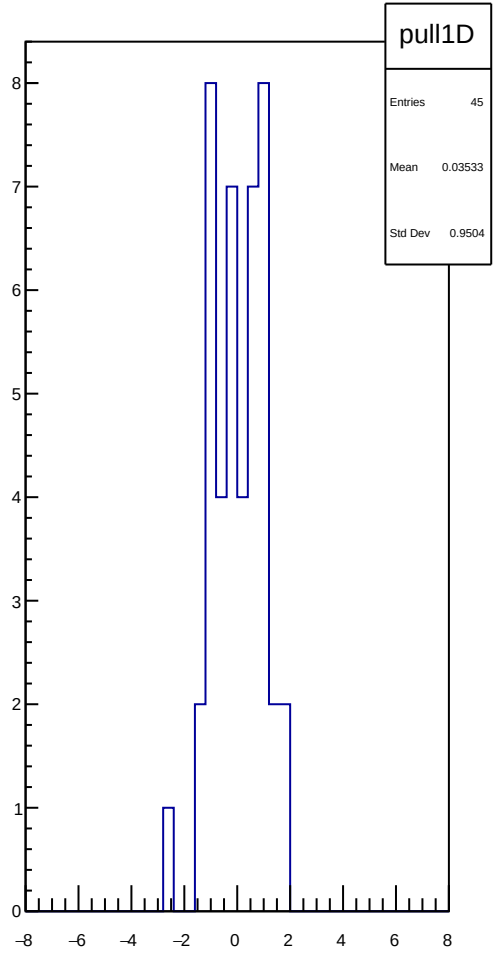

asym_us_dd_correction_rms vs run
χ² / ndf 1.003e+04 / 44
p0 1947 ± 2.109
2600
2400
2200
2000
1800
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

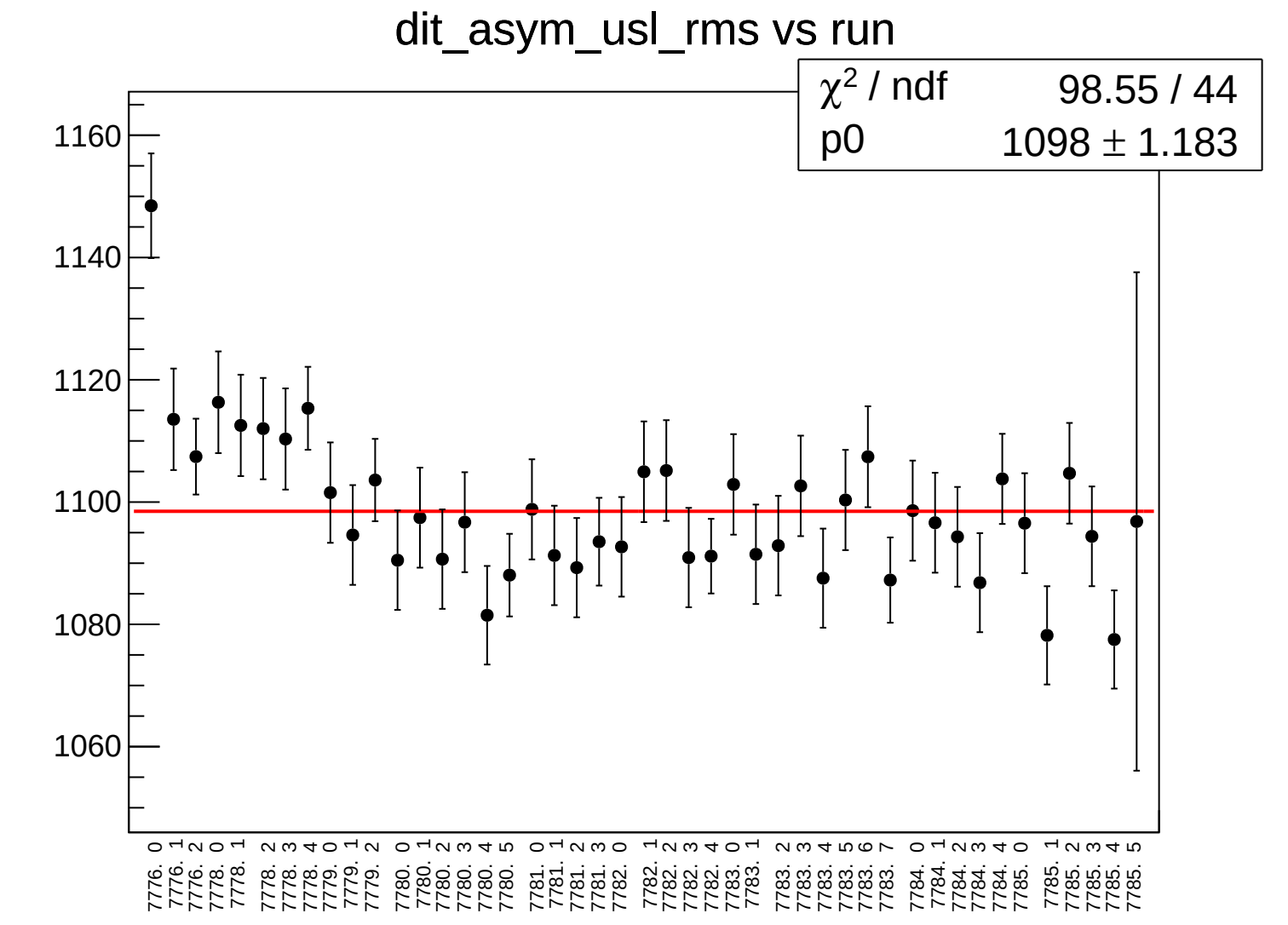

asym_us_dd_mean vs run
×10^3
χ² / ndf 36.87 / 44
p0 −797.4 ± 2668
pull
Entries 45
Mean −24.7
Std Dev 33.97

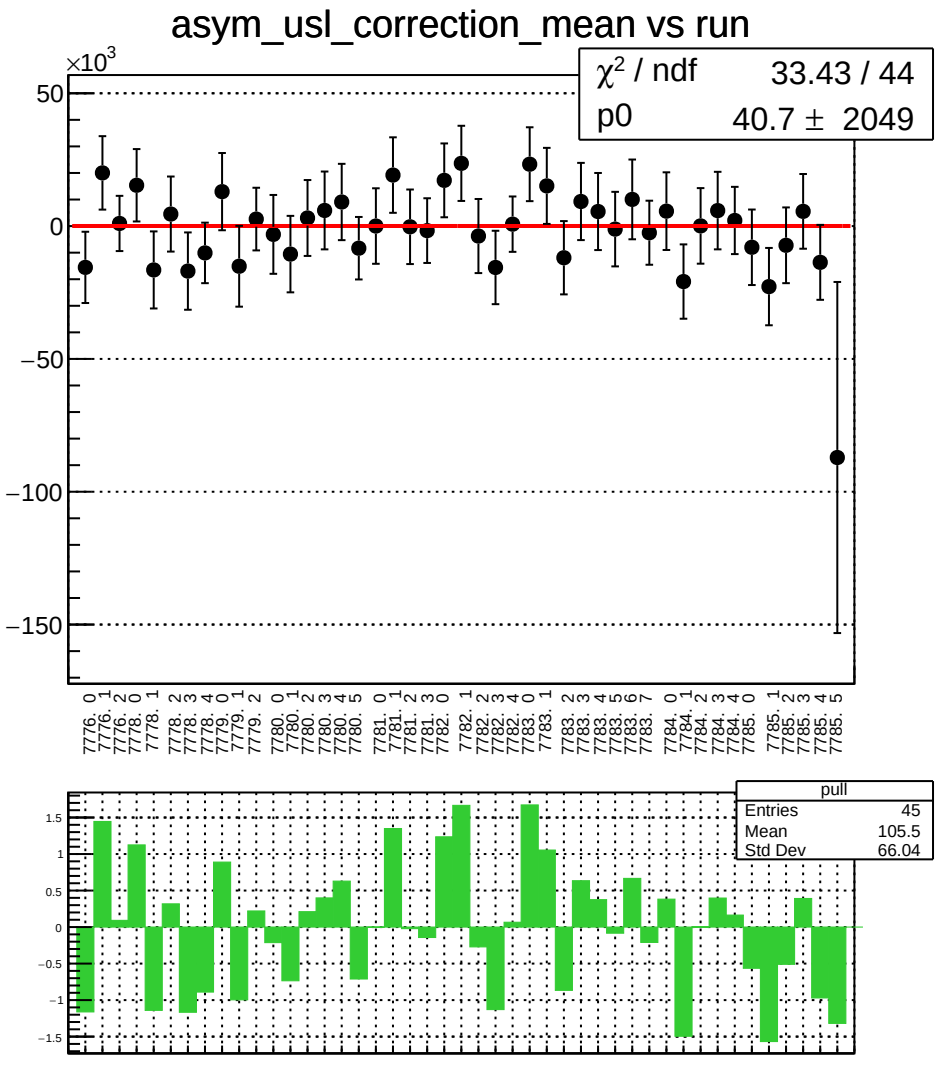

pull1D
Entries 45
Mean 0.01643
Std Dev 0.905

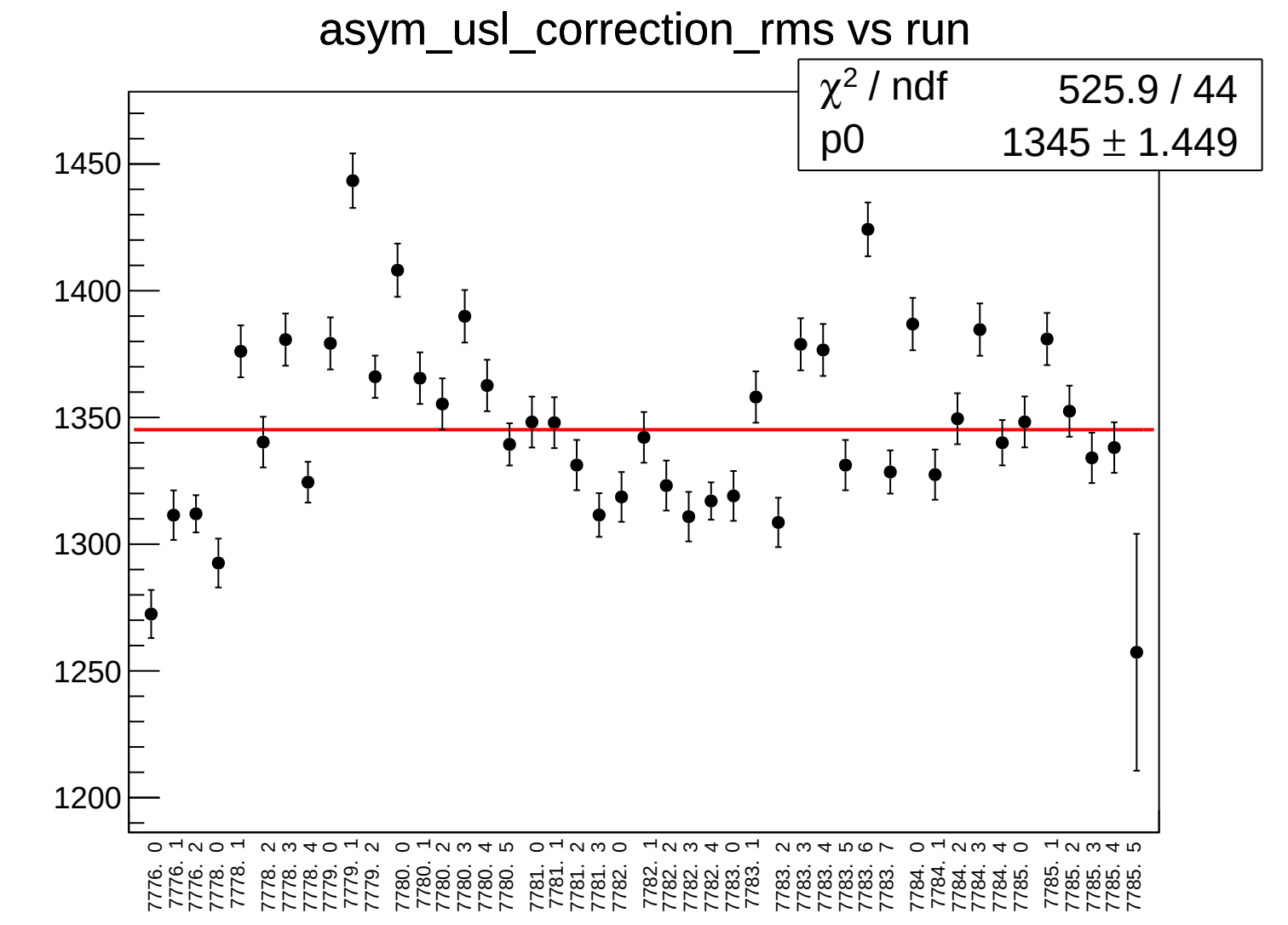

asym_us_dd_rms vs run
χ² / ndf 4514 / 44
p0 1747 ± 1.886
2200
2100
2000
1900
1800
1700
1600
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

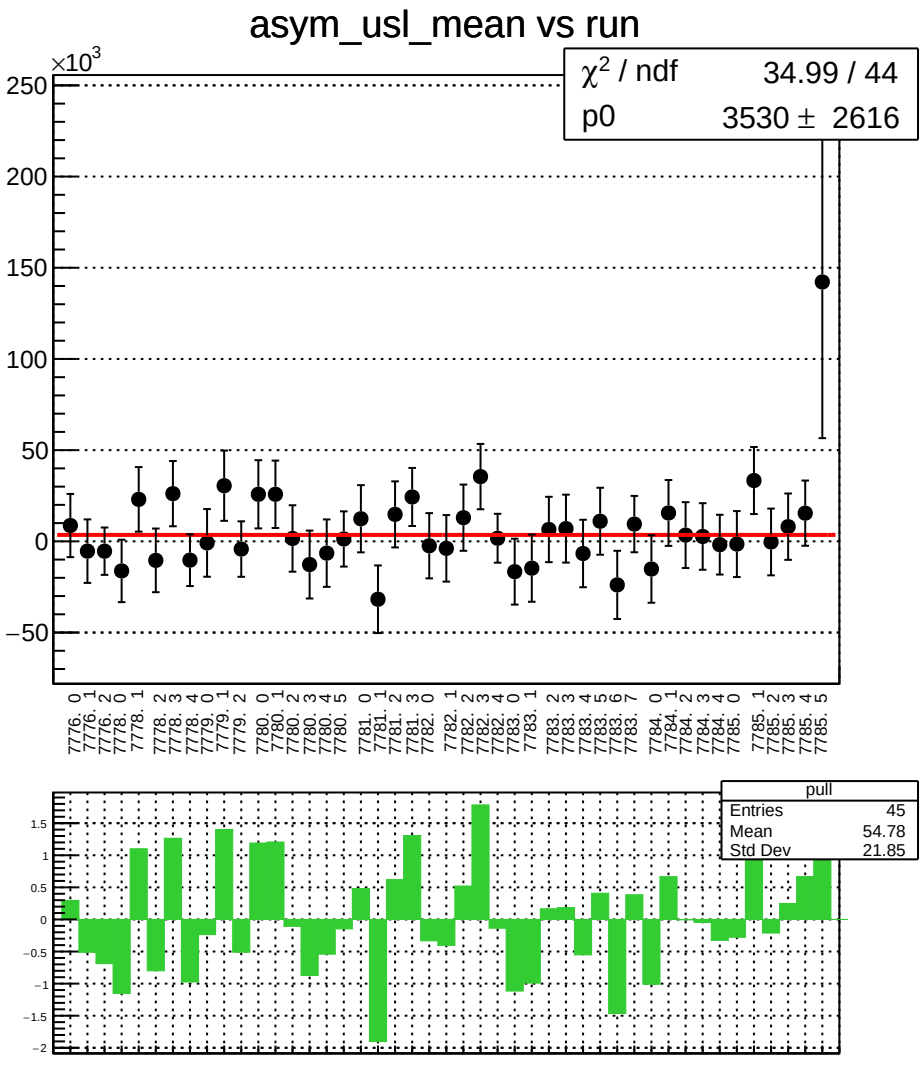

dit_asym_usl_mean vs run
×10^3
χ² / ndf 40.7 / 44
p0 3697 ± 1673
pull
Entries 45
Mean 27.12
Std Dev 23.05

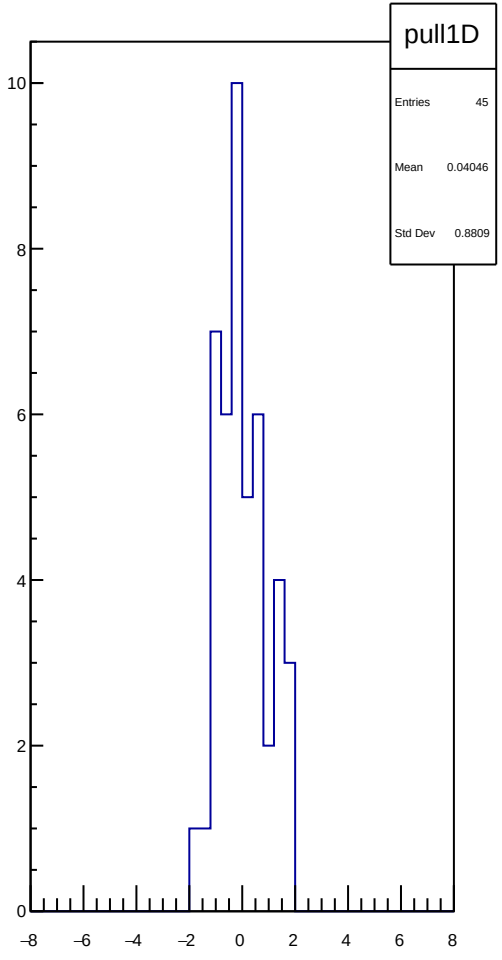

pull1D
Entries 45
Mean 0.03533
Std Dev 0.9504

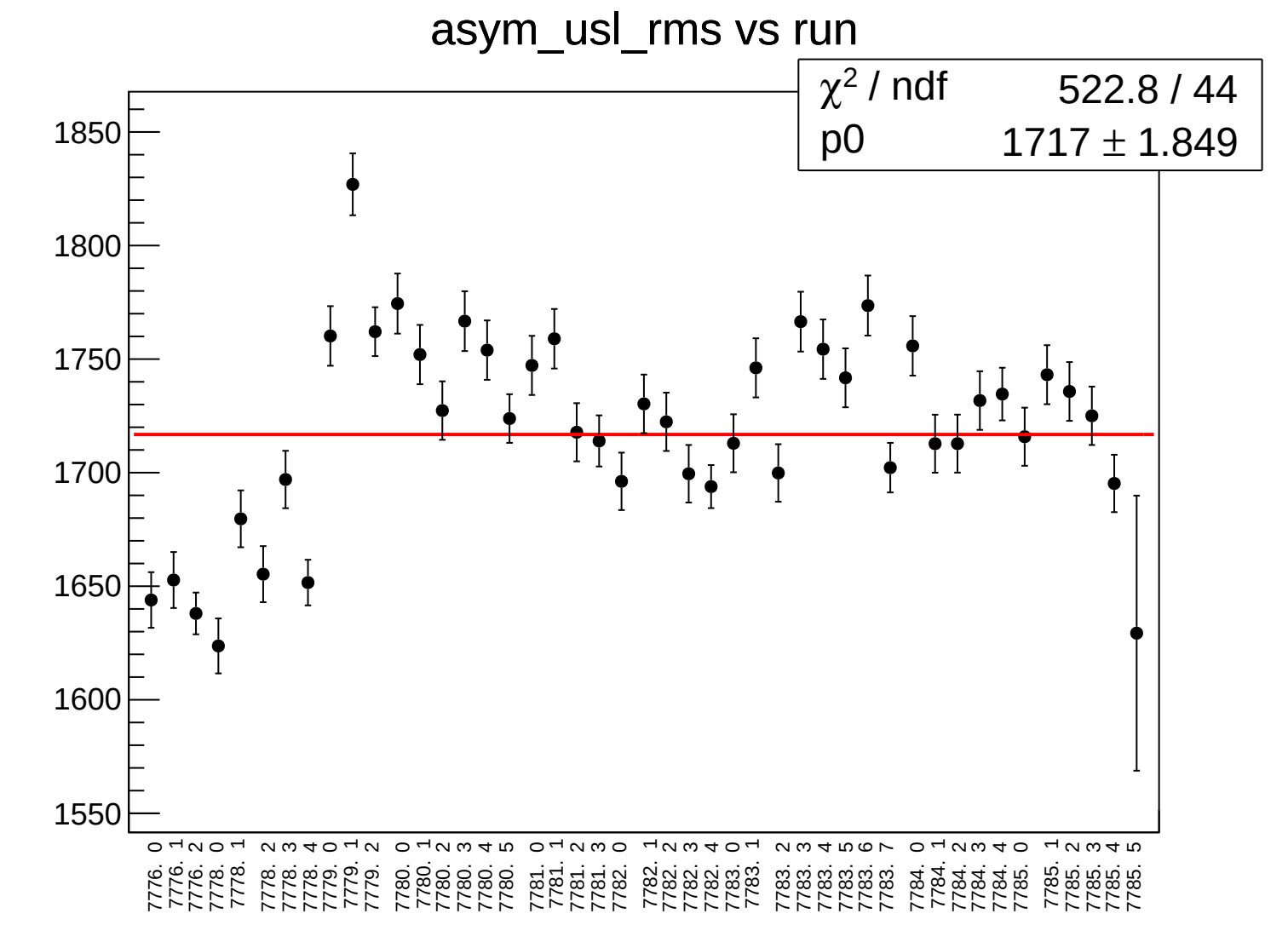

dit_asym_usl_rms vs run
χ² / ndf 98.55 / 44
p0 1098 ± 1.183
1160
1140
1120
1100
1080
1060
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

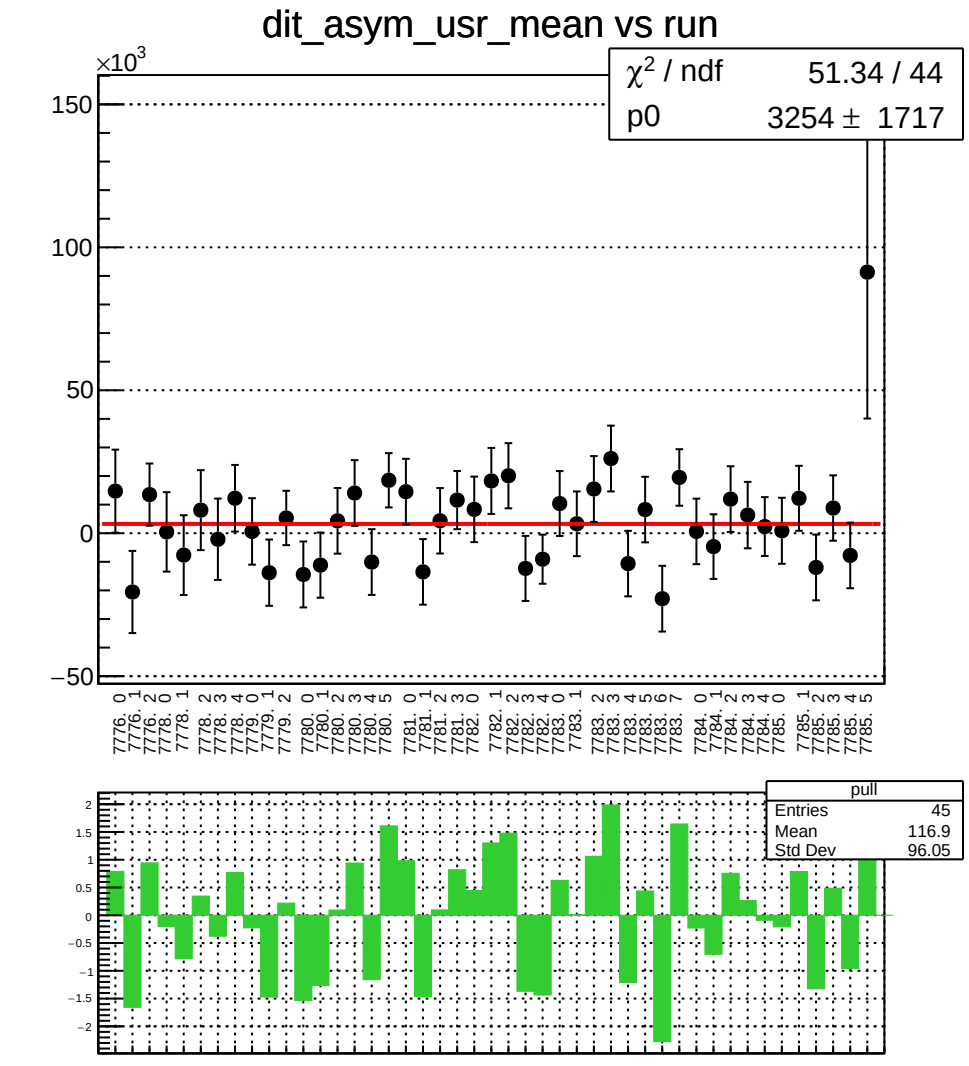

asym_usl_correction_mean vs run
×10^3
50
0
−50
−100
−150
χ² / ndf 33.43 / 44
p0 40.7 ± 2049
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 105.5
Std Dev 66.04
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.0173
Std Dev 0.8617
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

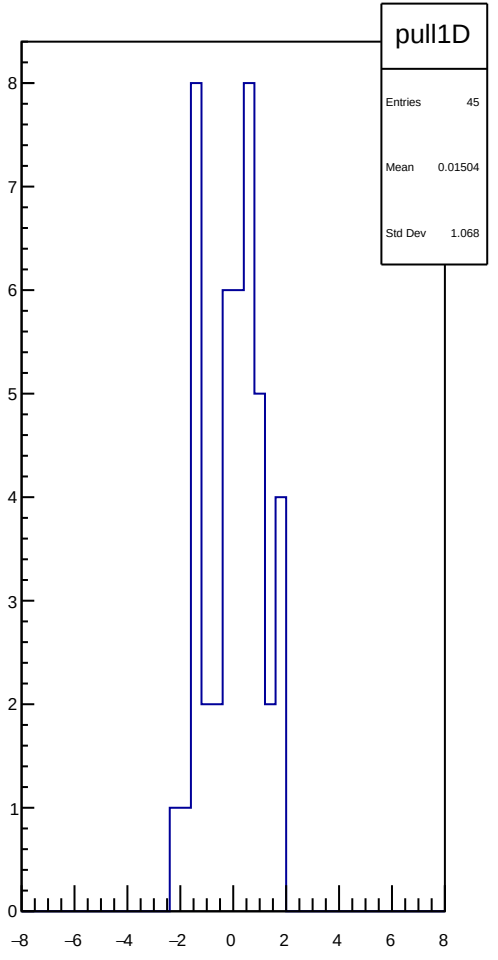

asym_usl_correction_rms vs run
χ² / ndf 525.9 / 44
p0 1345 ± 1.449
1450
1400
1350
1300
1250
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

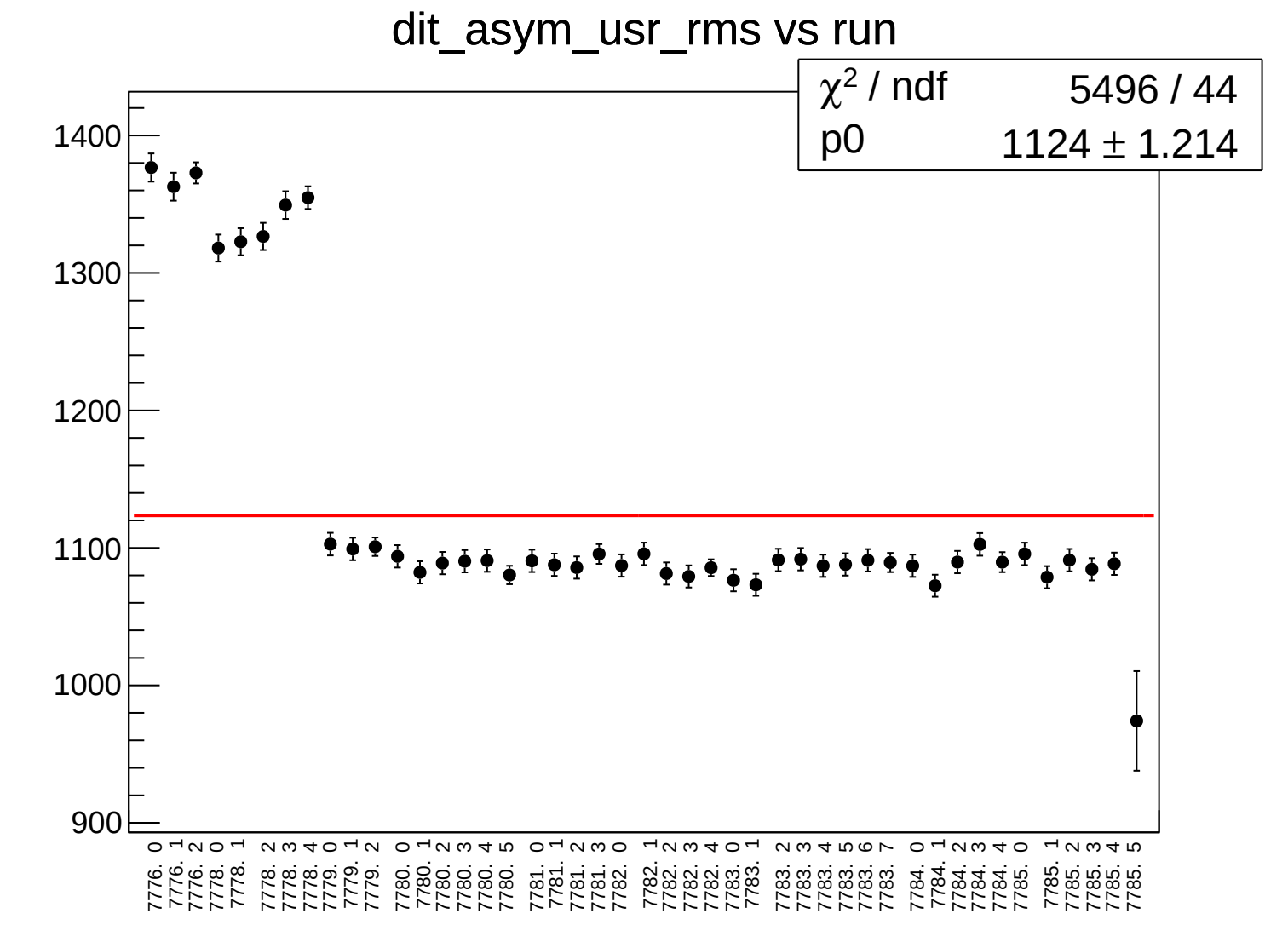

asym_usl_mean vs run
×10^3
χ^2 / ndf 34.99 / 44
p0 3530 ± 2616
250
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 54.78
Std Dev 21.85
1.5
1
0.5
0
−0.5
−1
−1.5
−2

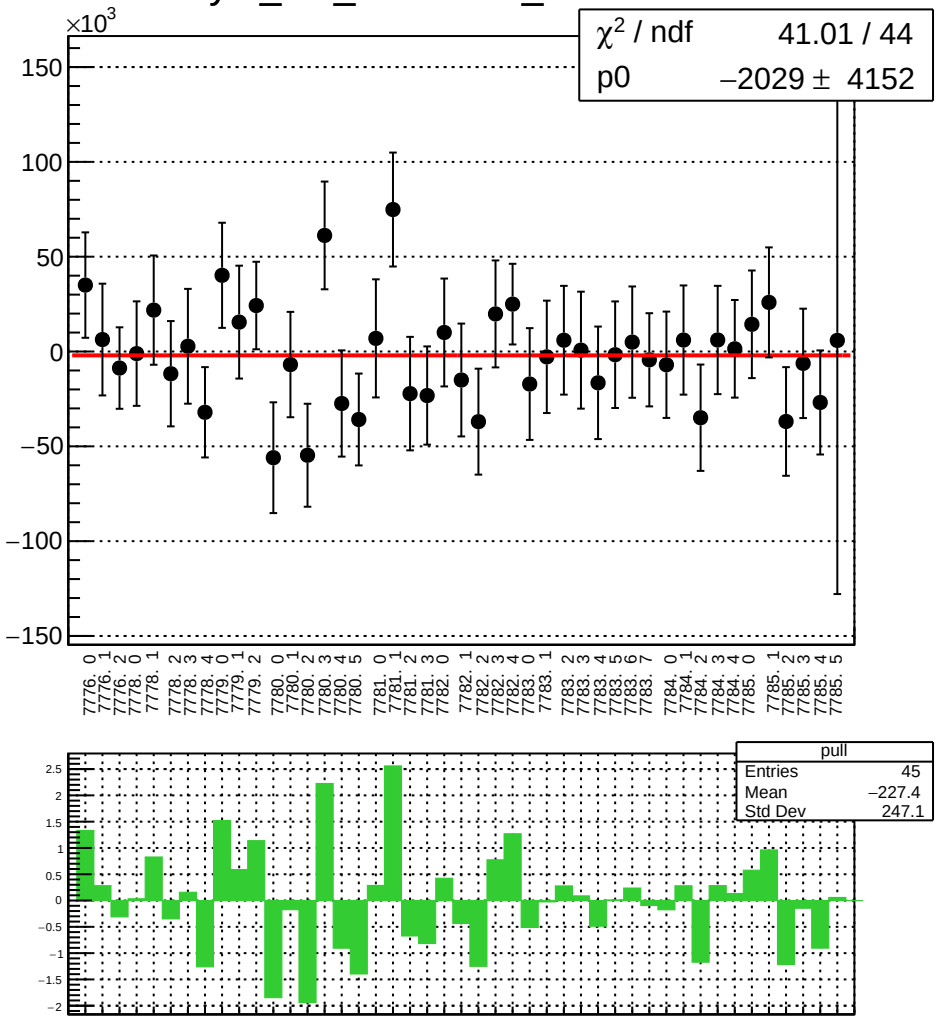

pull1D
Entries 45
Mean 0.04046
Std Dev 0.8809
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

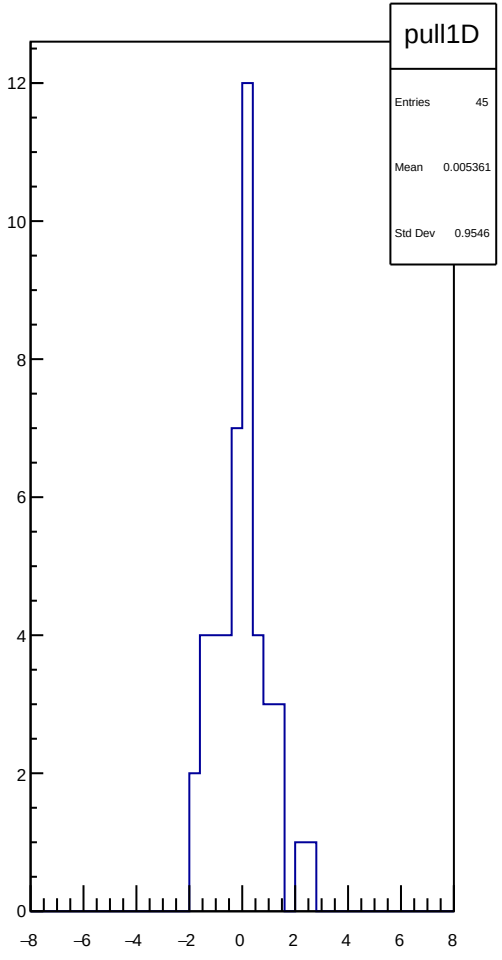

asym_usl_rms vs run
χ² / ndf 522.8 / 44
p0 1717 ± 1.849
1850
1800
1750
1700
1650
1600
1550
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

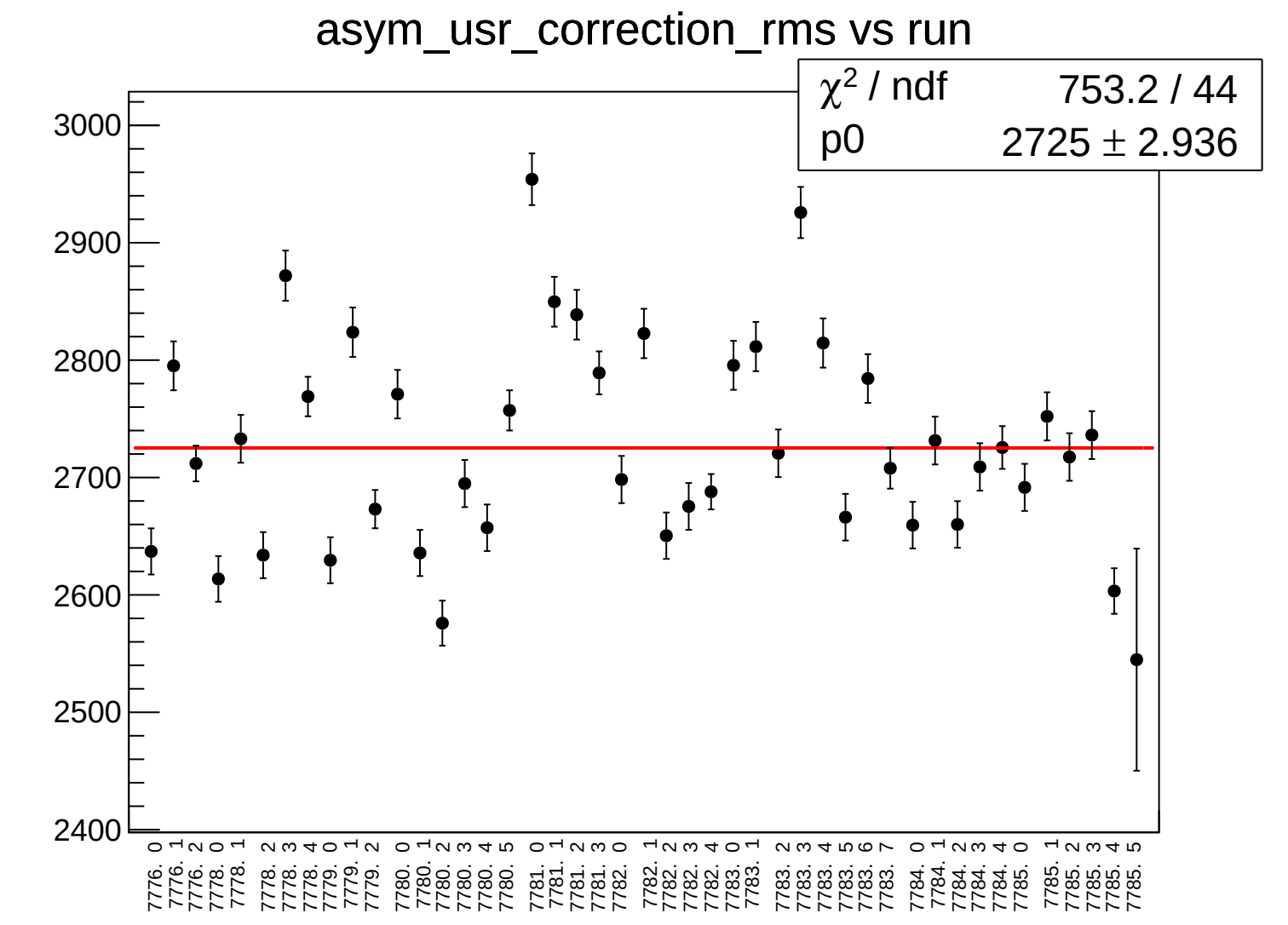

dit_asym_usr_mean vs run
×10^3
χ² / ndf 51.34 / 44
p0 3254 ± 1717
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 116.9
Std Dev 96.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

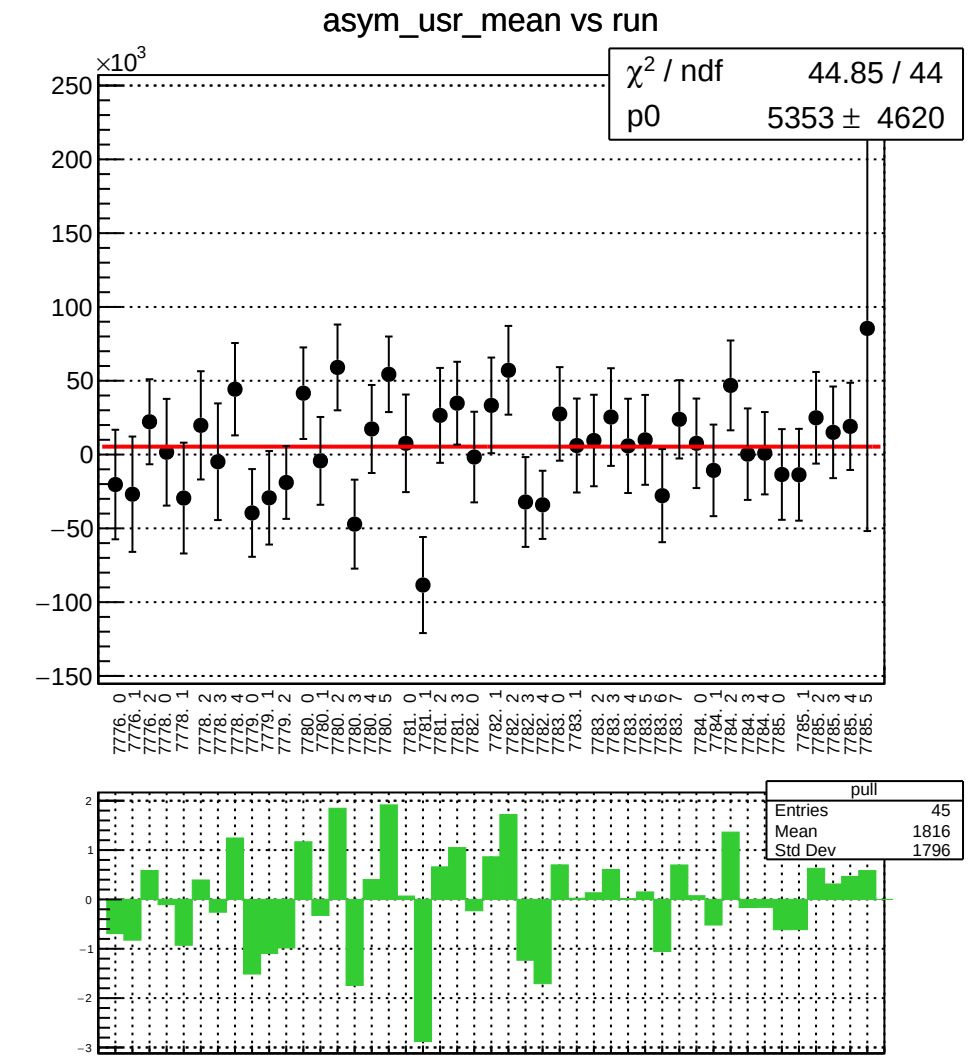

pull1D
Entries 45
Mean 0.01504
Std Dev 1.068
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

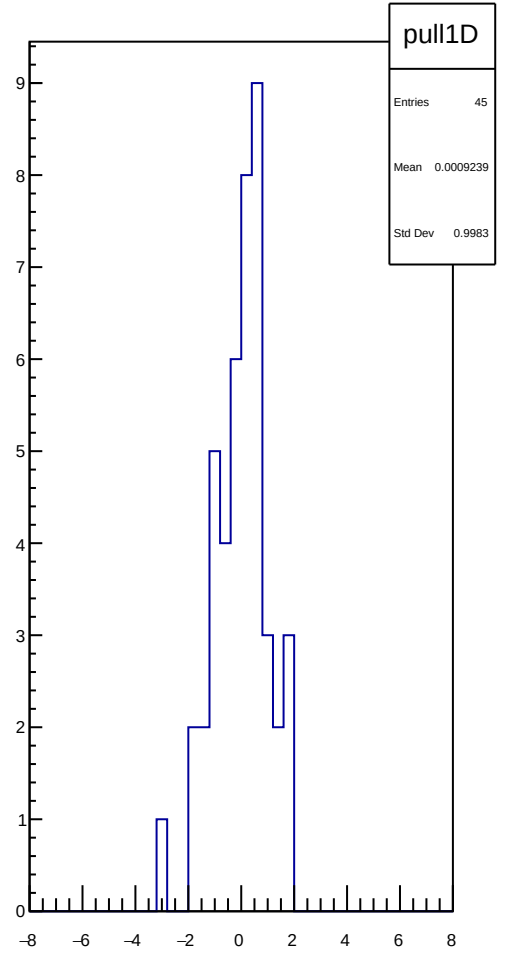

dit_asym_usr_rms vs run
χ² / ndf 5496 / 44
p0 1124 ± 1.214
1400
1300
1200
1100
1000
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

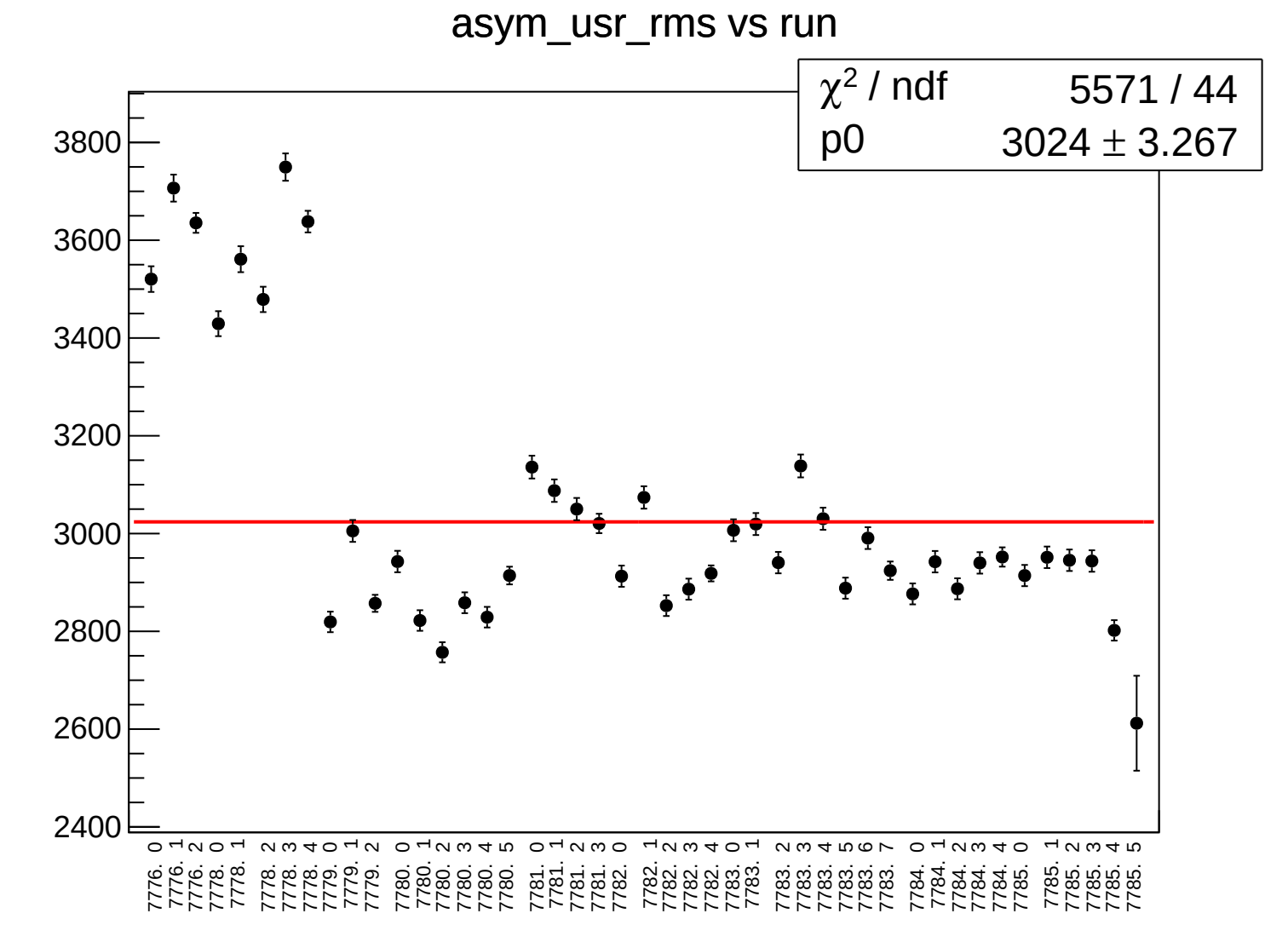

asym_usr_correction_mean vs run
×10^3
χ² / ndf 41.01 / 44
p0 −2029 ± 4152
150
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −227.4
Std Dev 247.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

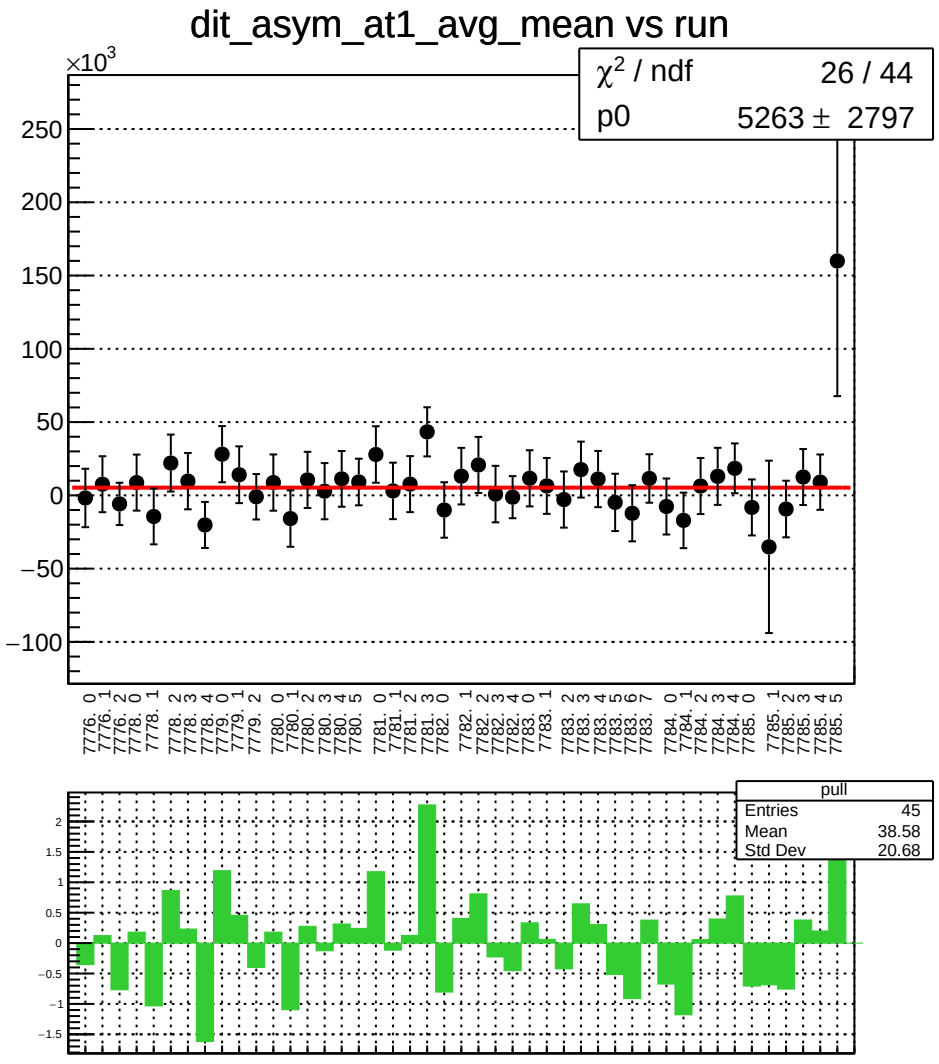

pull1D
Entries 45
Mean 0.005361
Std Dev 0.9546
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

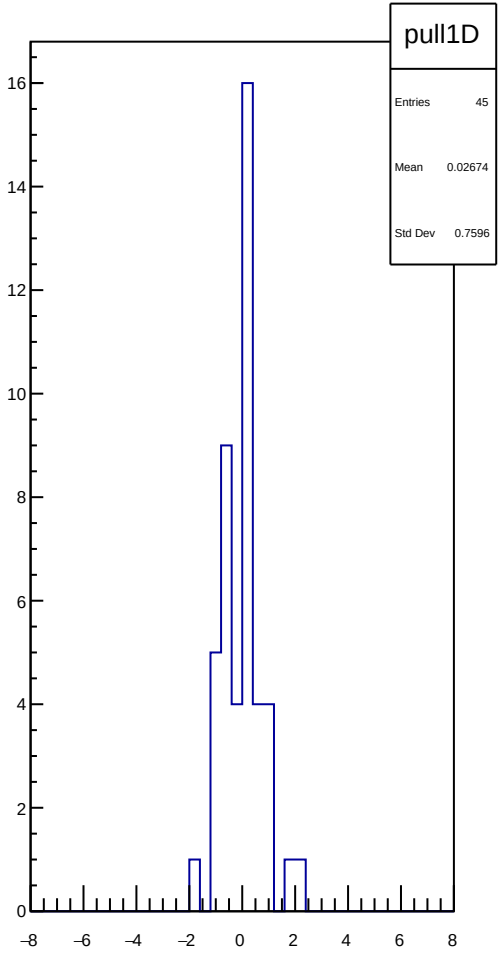

asym_usr_correction_rms vs run
χ² / ndf 753.2 / 44
p0 2725 ± 2.936
3000
2900
2800
2700
2600
2500
2400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

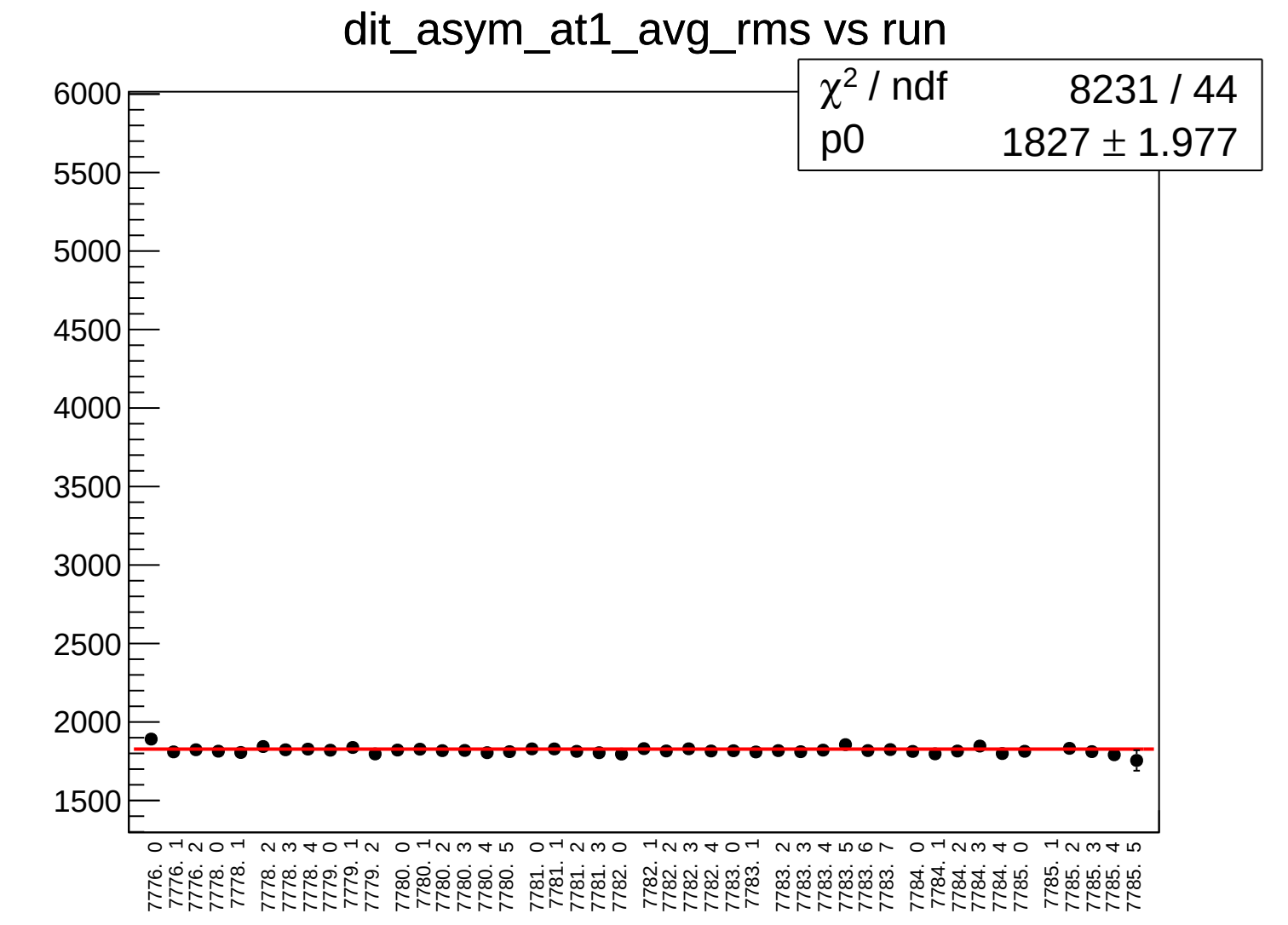

asym_usr_mean vs run
×10^3
χ² / ndf 44.85 / 44
p0 5353 ± 4620
250
200
150
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1816
Std Dev 1796
2
1
0
−1
−2
−3

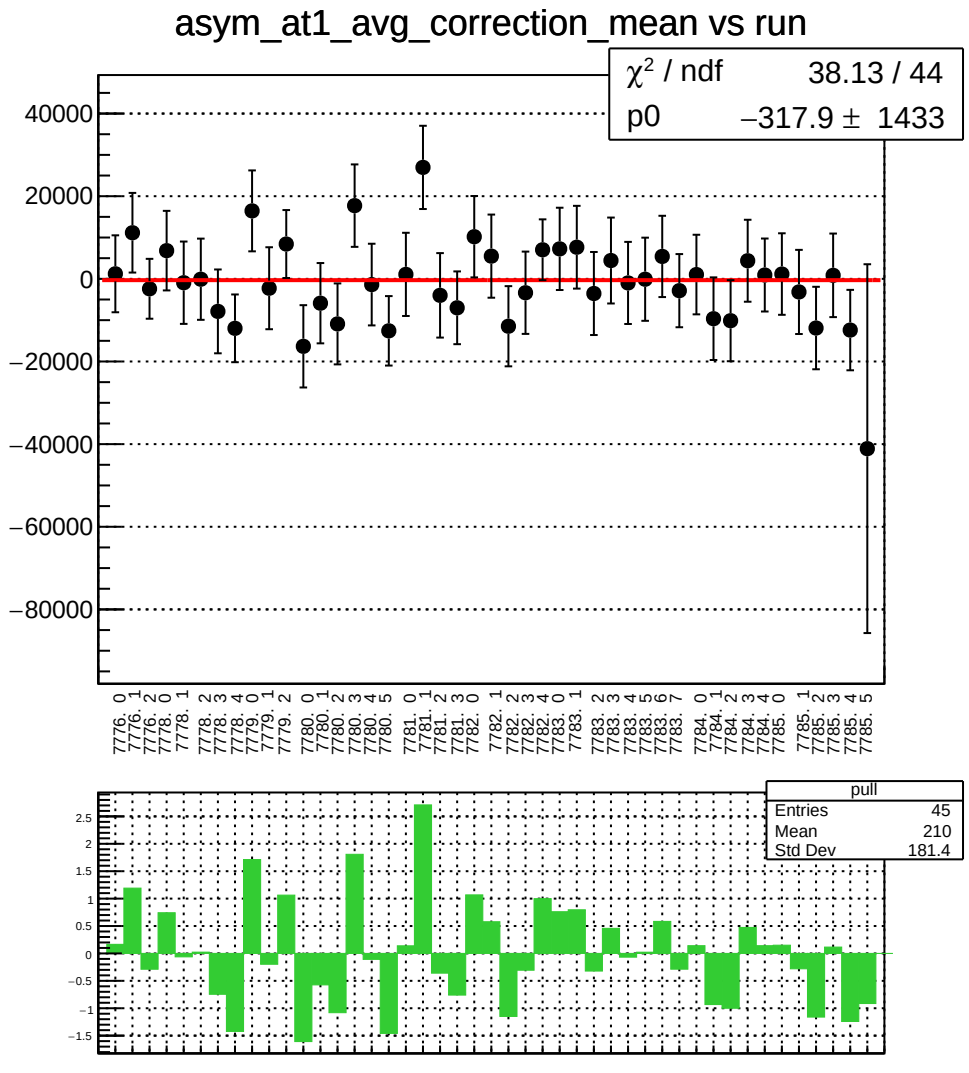

pull1D
Entries 45
Mean 0.0009239
Std Dev 0.9983
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

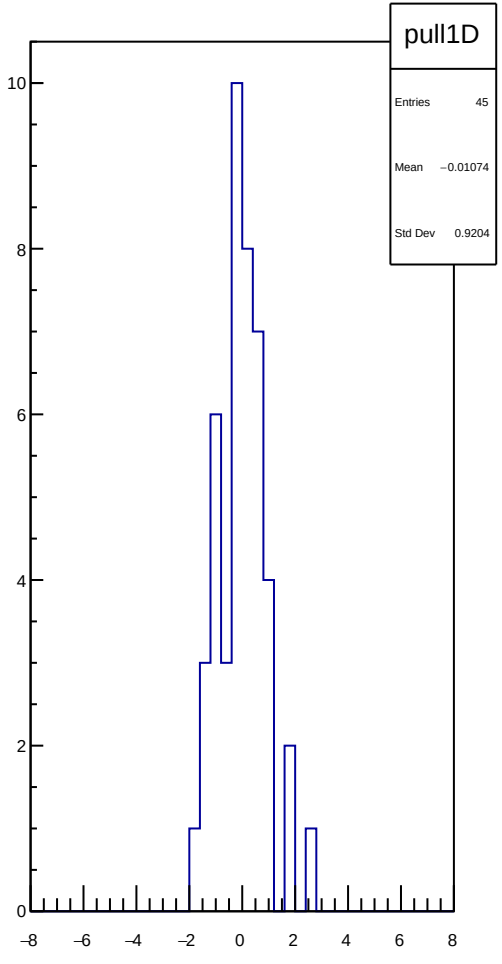

asym_usr_rms vs run
χ² / ndf 5571 / 44
p0 3024 ± 3.267
3800
3600
3400
3200
3000
2800
2600
2400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

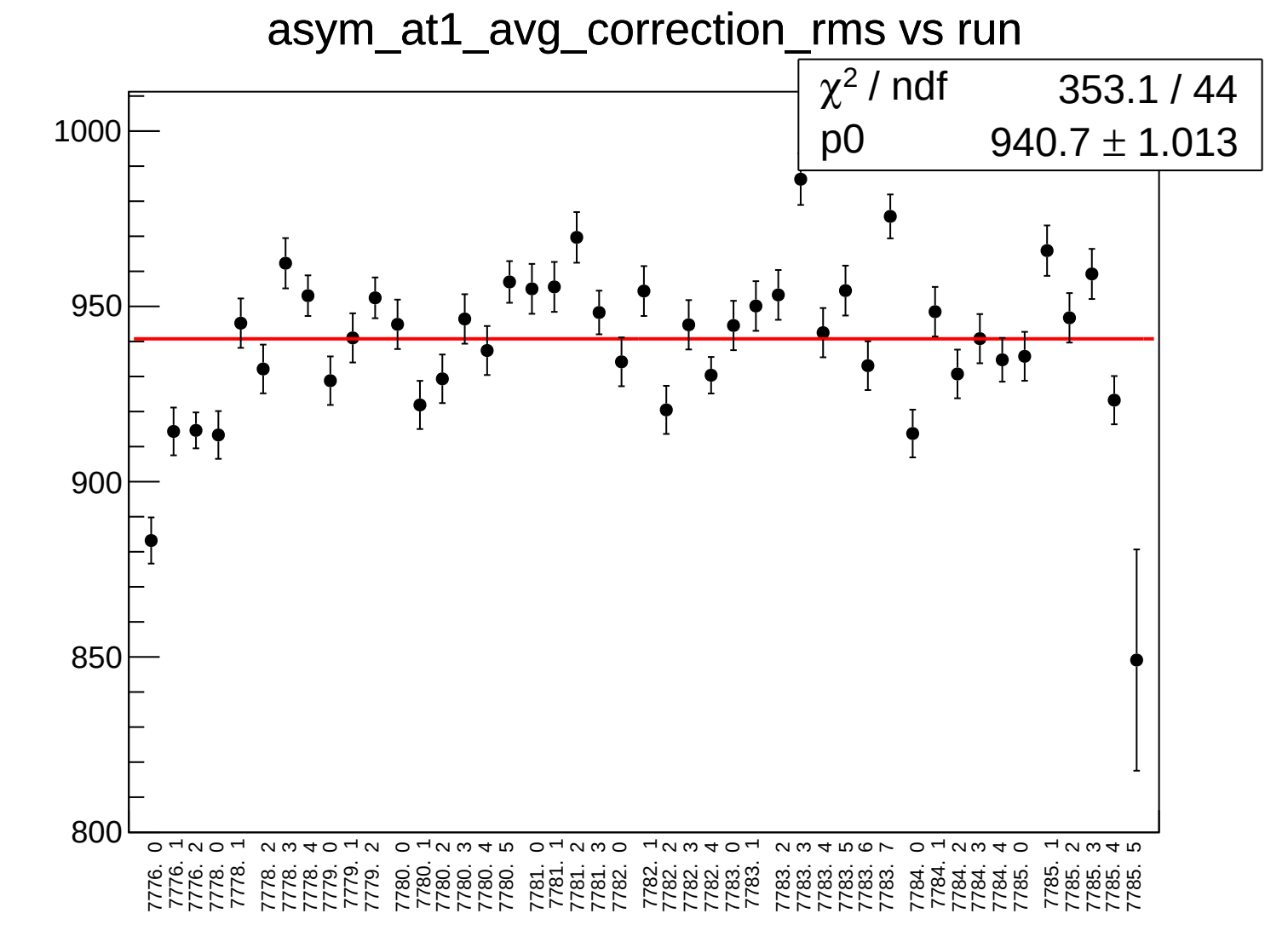

dit_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 26 / 44
p0 5263 ± 2797
250
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 38.58
Std Dev 20.68
2
1.5
1
0.5
0
−0.5
−1
−1.5

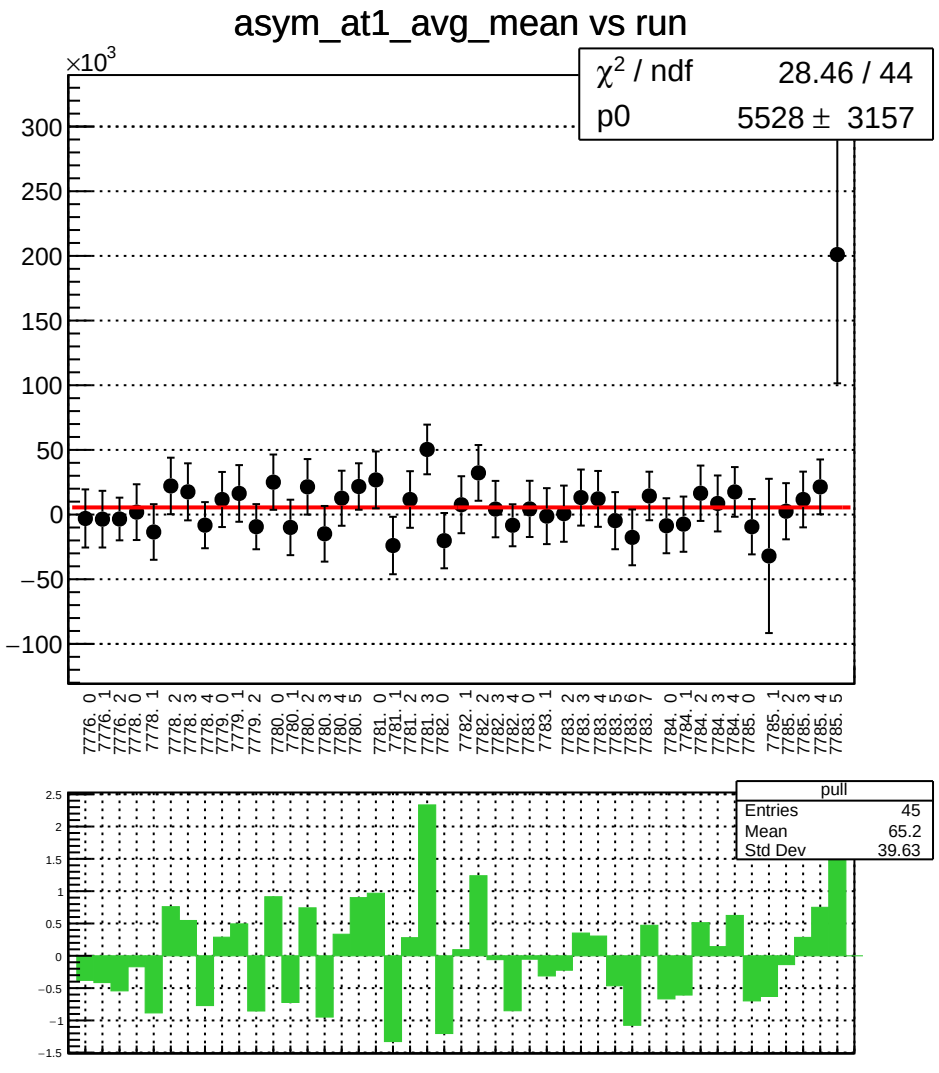

pull1D
Entries 45
Mean 0.02674
Std Dev 0.7596
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

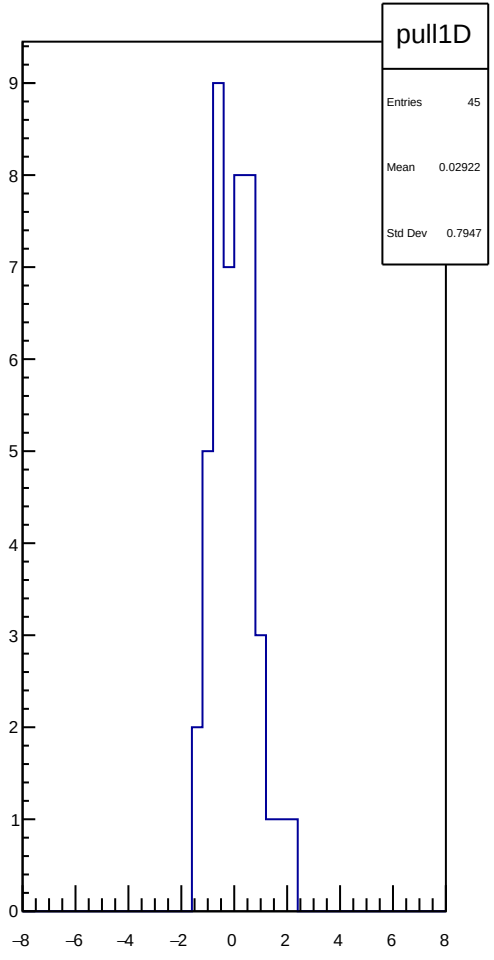

dit_asym_at1_avg_rms vs run
χ² / ndf 8231 / 44
p0 1827 ± 1.977
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

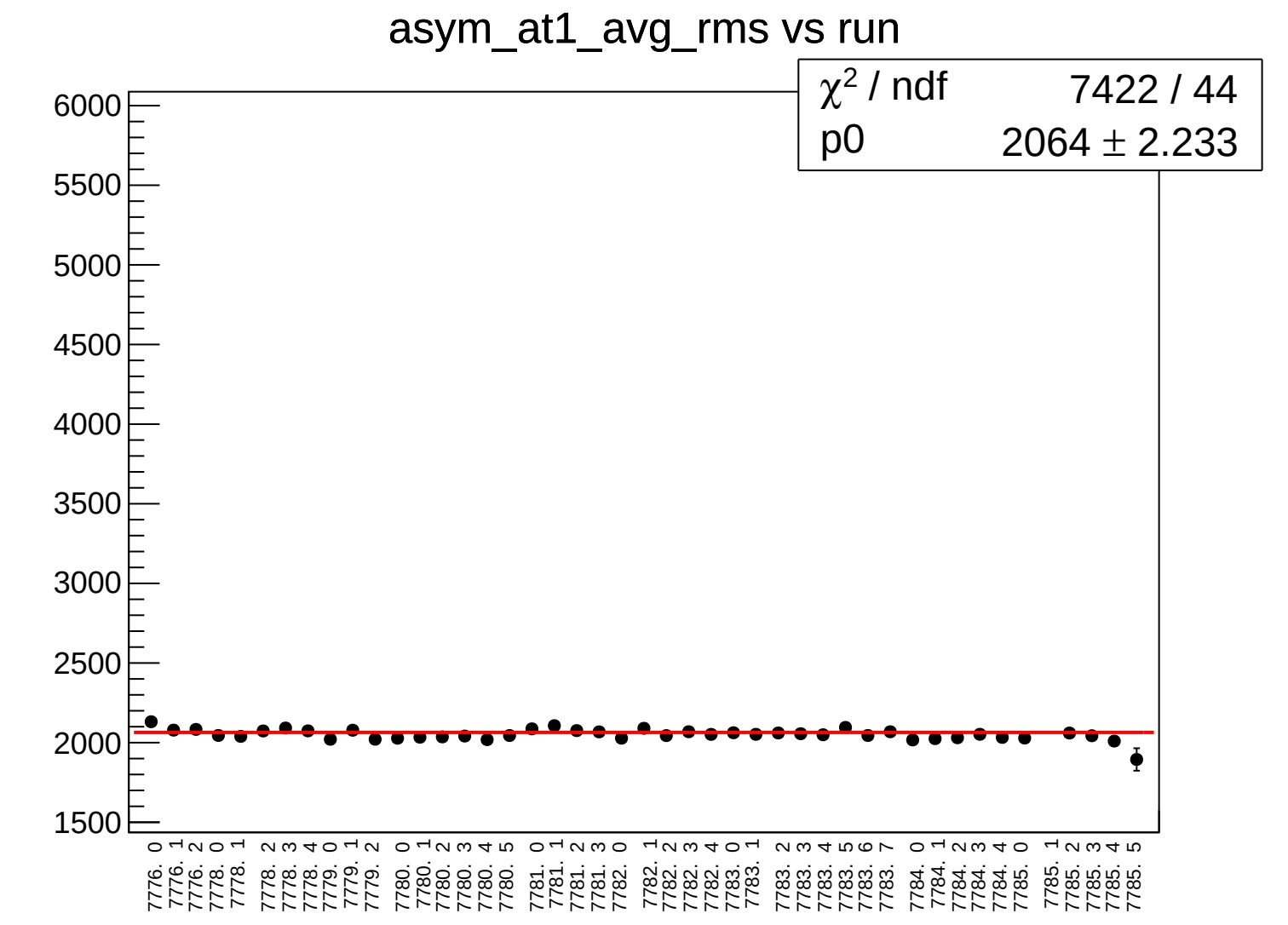

asym_at1_avg_correction_mean vs run
χ² / ndf 38.13 / 44
p0 −317.9 ± 1433
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 210
Std Dev 181.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

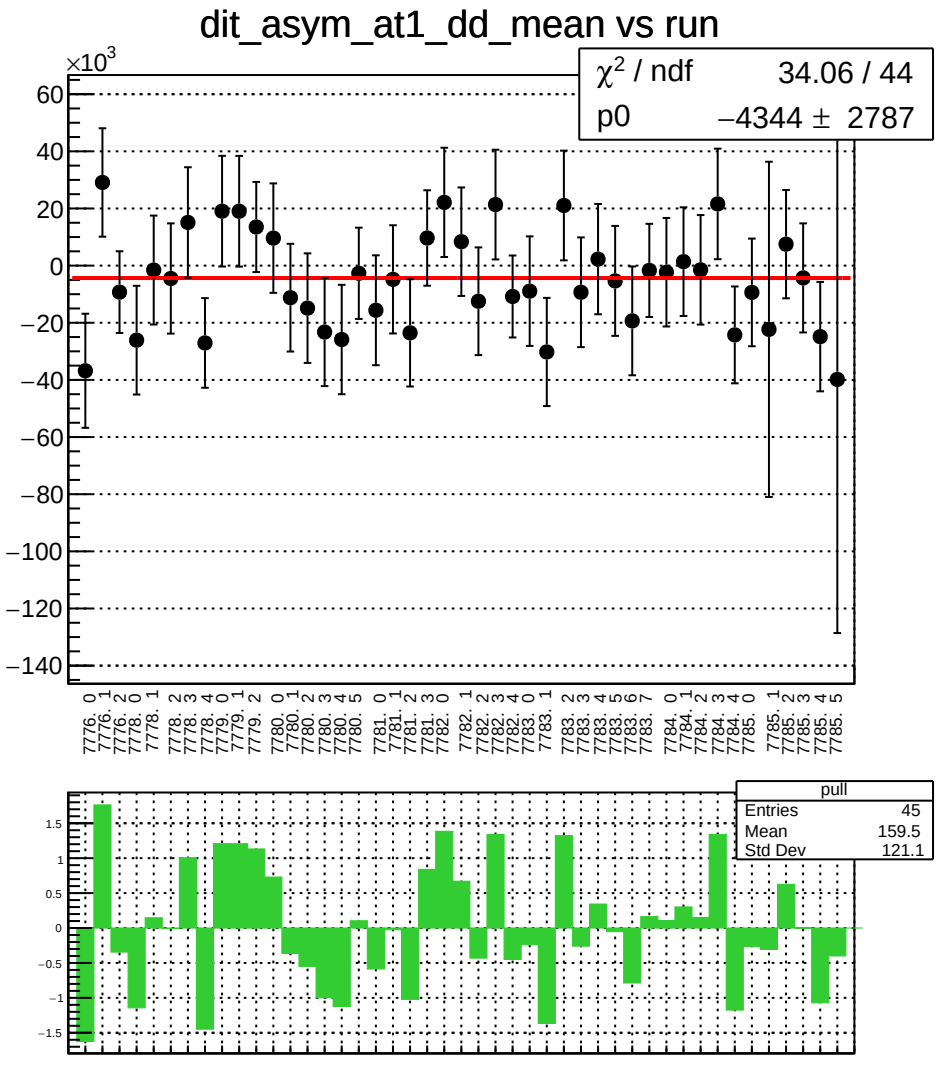

pull1D
Entries 45
Mean −0.01074
Std Dev 0.9204
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

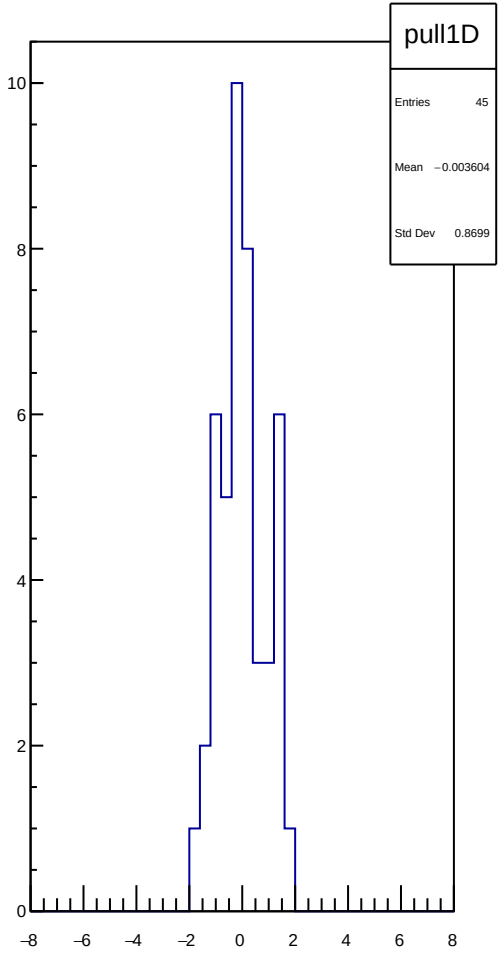

asym_at1_avg_correction_rms vs run
χ² / ndf 353.1 / 44
p0 940.7 ± 1.013
1000
950
900
850
800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

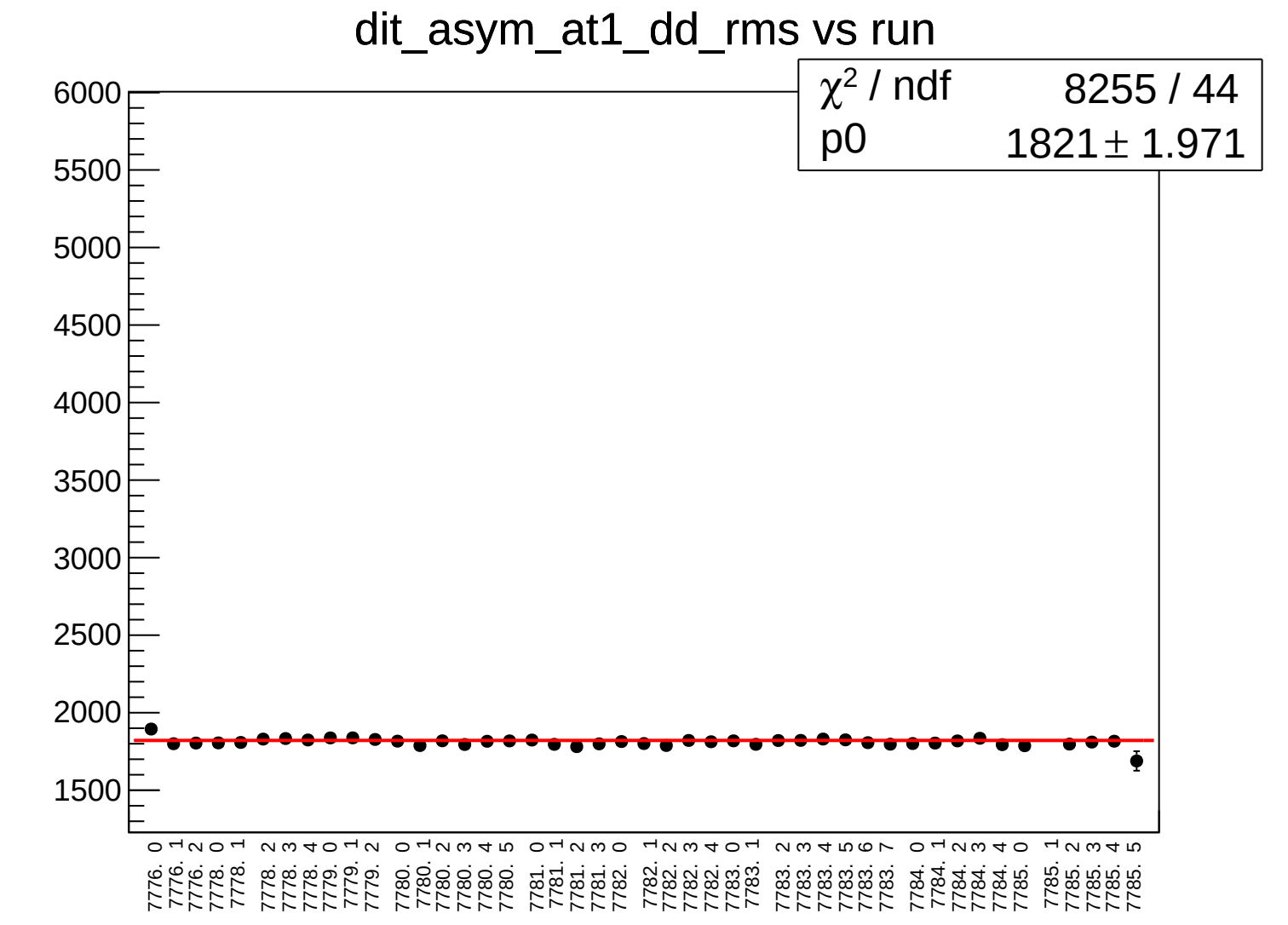

asym_at1_avg_mean vs run
×10^3
χ² / ndf 28.46 / 44
p0 5528 ± 3157
300
250
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 65.2
Std Dev 39.63
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

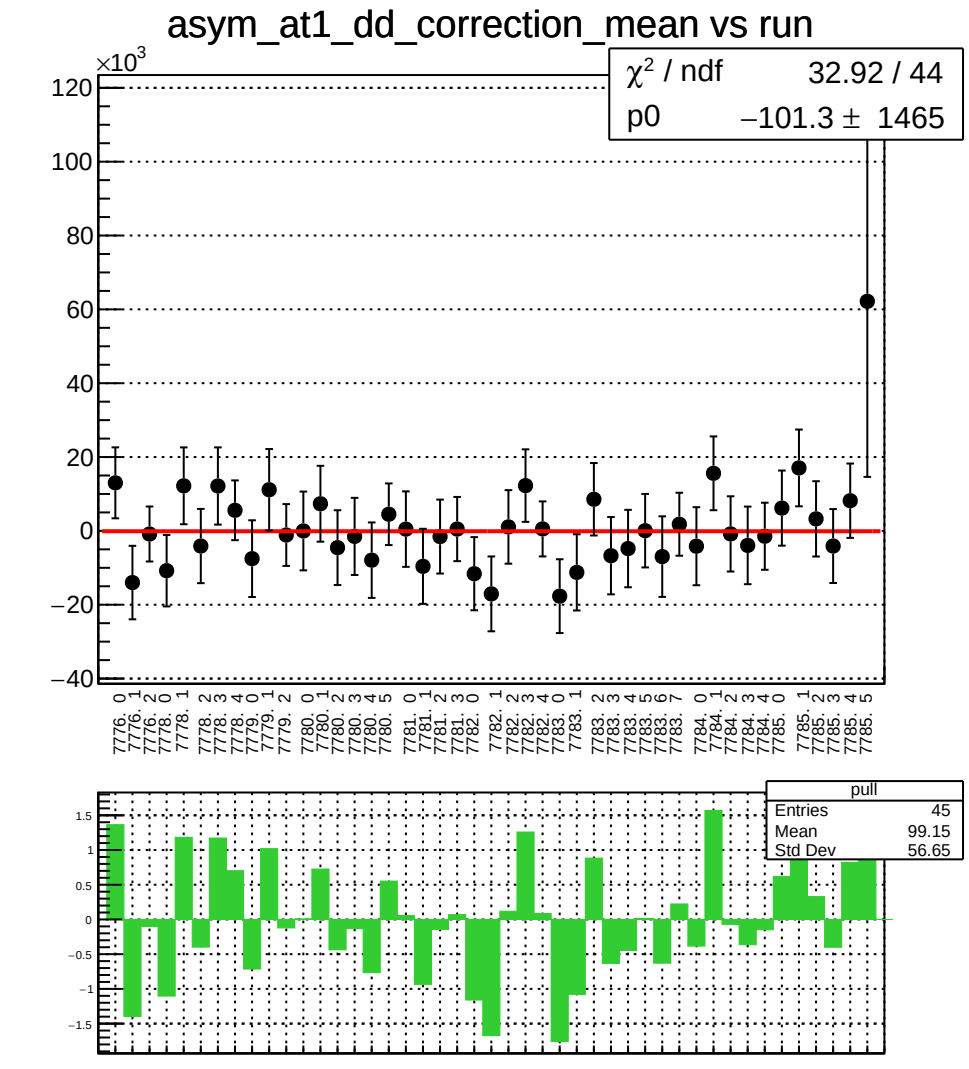

pull1D
Entries 45
Mean 0.02922
Std Dev 0.7947
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

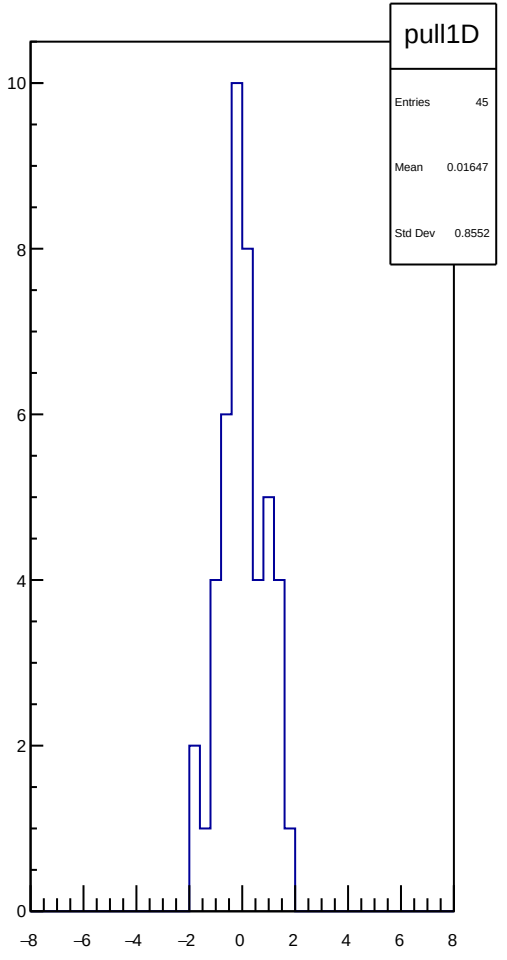

asym_at1_avg_rms vs run
χ² / ndf 7422 / 44
p0 2064 ± 2.233
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

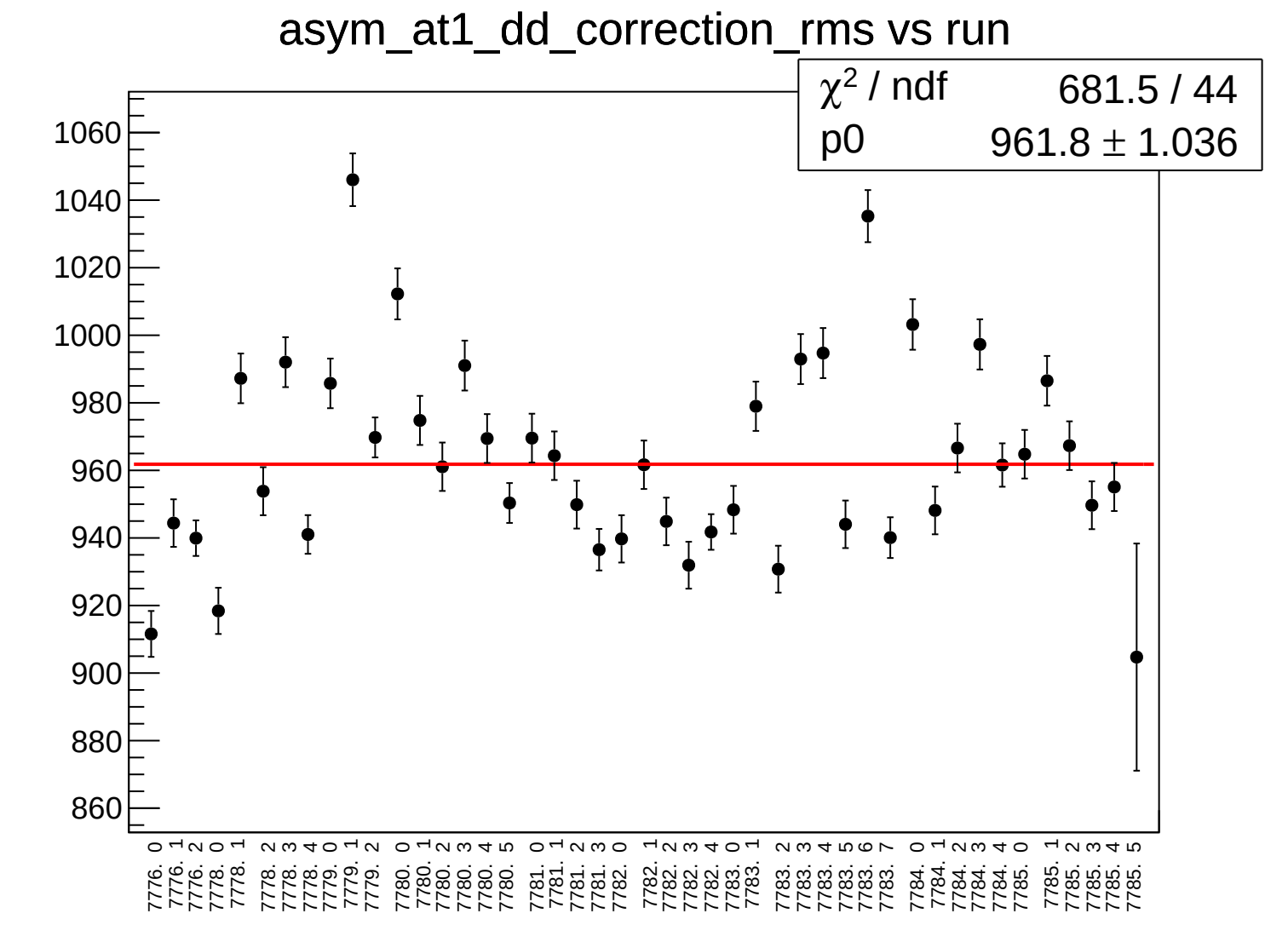

dit_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 34.06 / 44
p0 −4344 ± 2787
pull
Entries 45
Mean 159.5
Std Dev 121.1

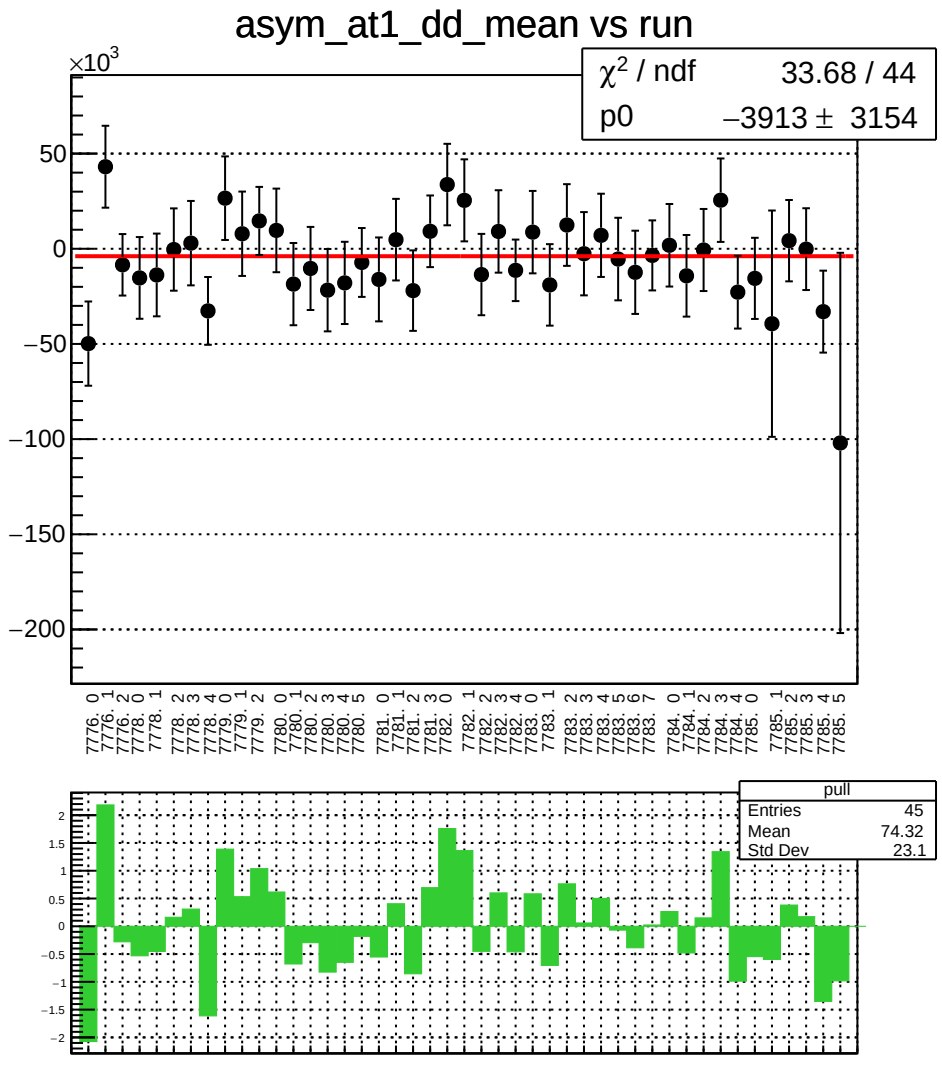

pull1D
Entries 45
Mean −0.003604
Std Dev 0.8699

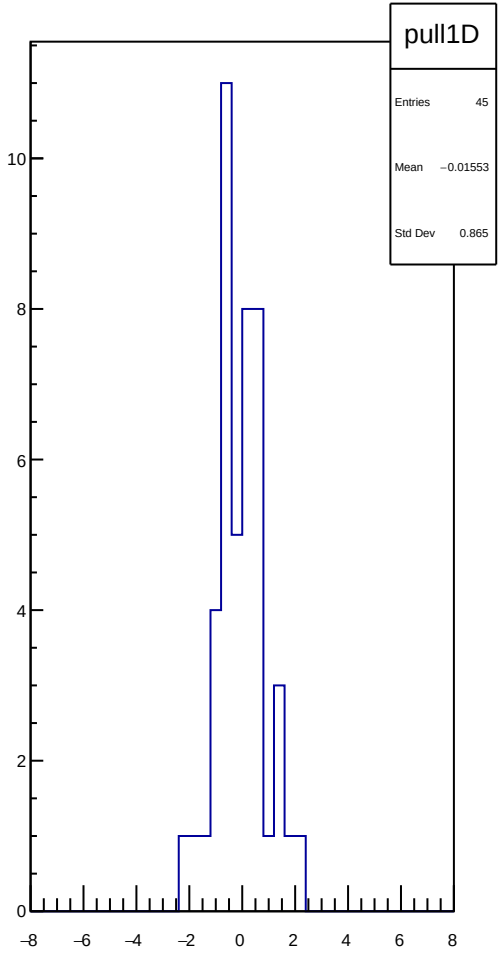

dit_asym_at1_dd_rms vs run
χ² / ndf 8255 / 44
p0 1821 ± 1.971
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

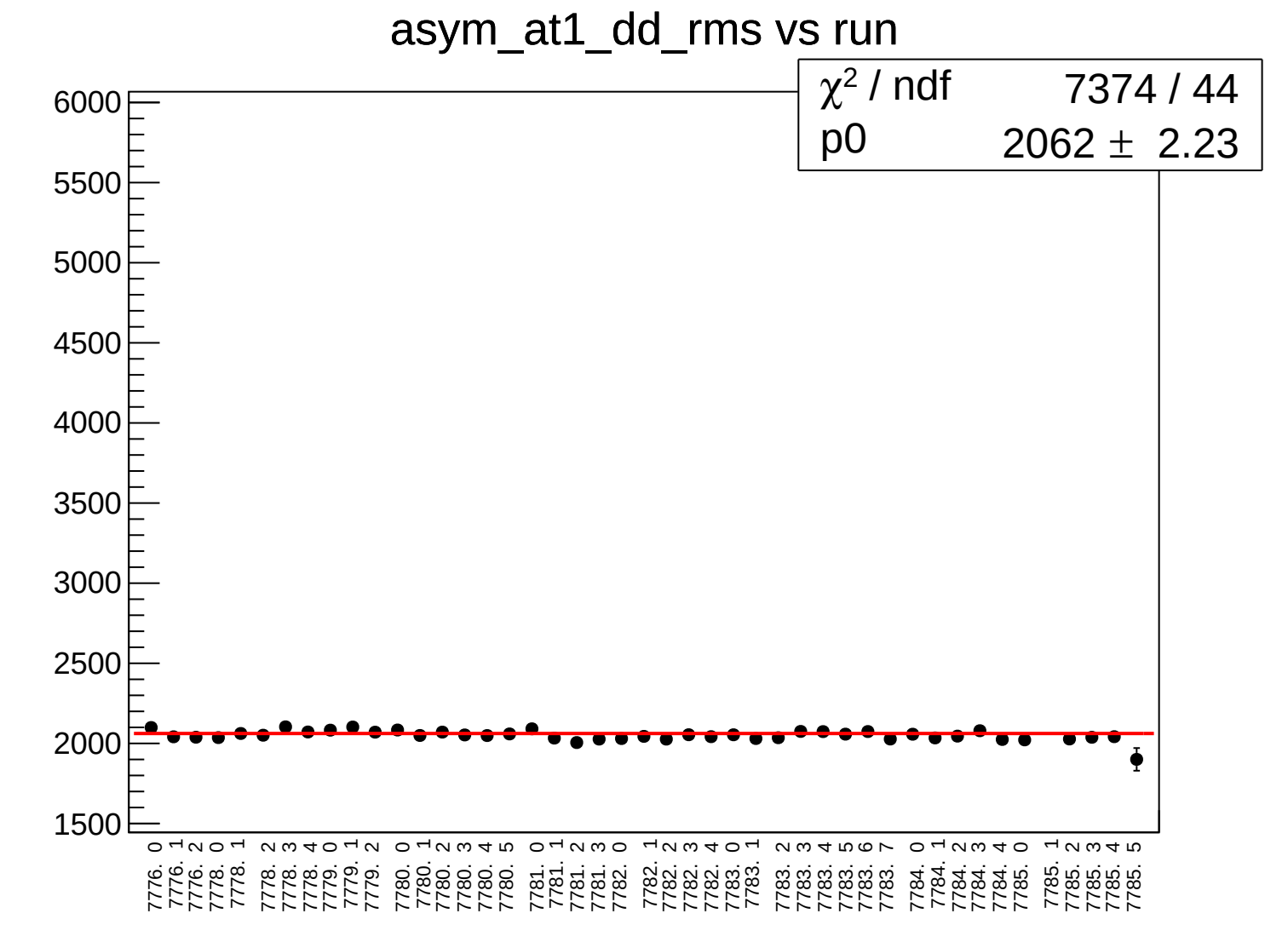

asym_at1_dd_correction_mean vs run
×10^3
χ² / ndf 32.92 / 44
p0 −101.3 ± 1465
120
100
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 99.15
Std Dev 56.65
1.5
1
0.5
0
−0.5
−1
−1.5

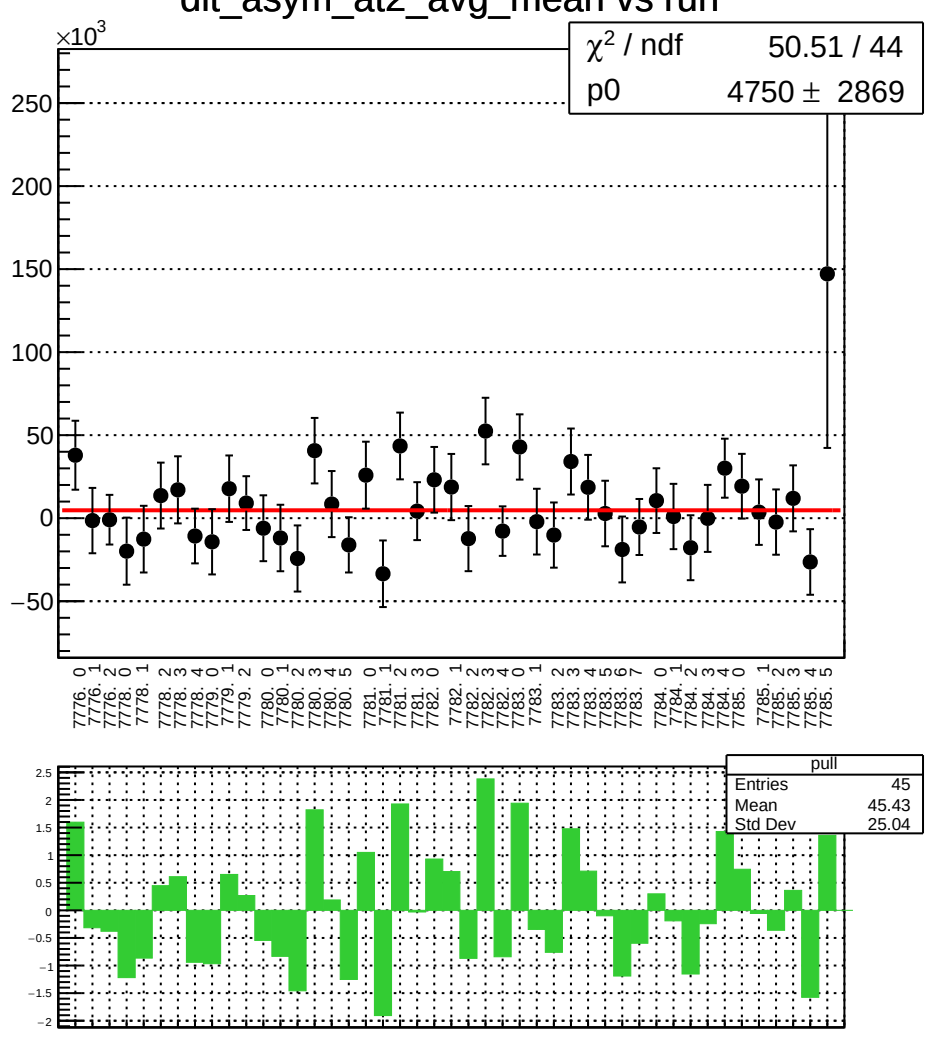

pull1D
Entries 45
Mean 0.01647
Std Dev 0.8552
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

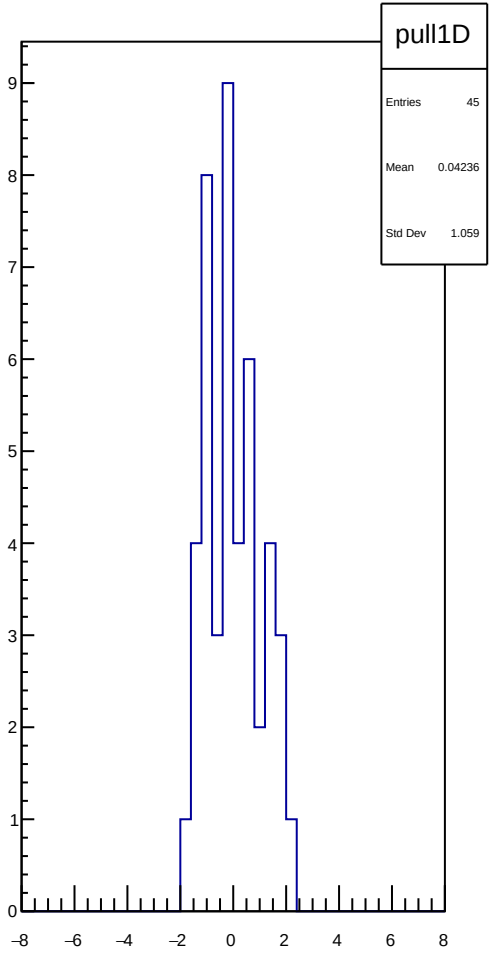

asym_at1_dd_correction_rms vs run
χ² / ndf 681.5 / 44
p0 961.8 ± 1.036
1060
1040
1020
1000
980
960
940
920
900
880
860
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

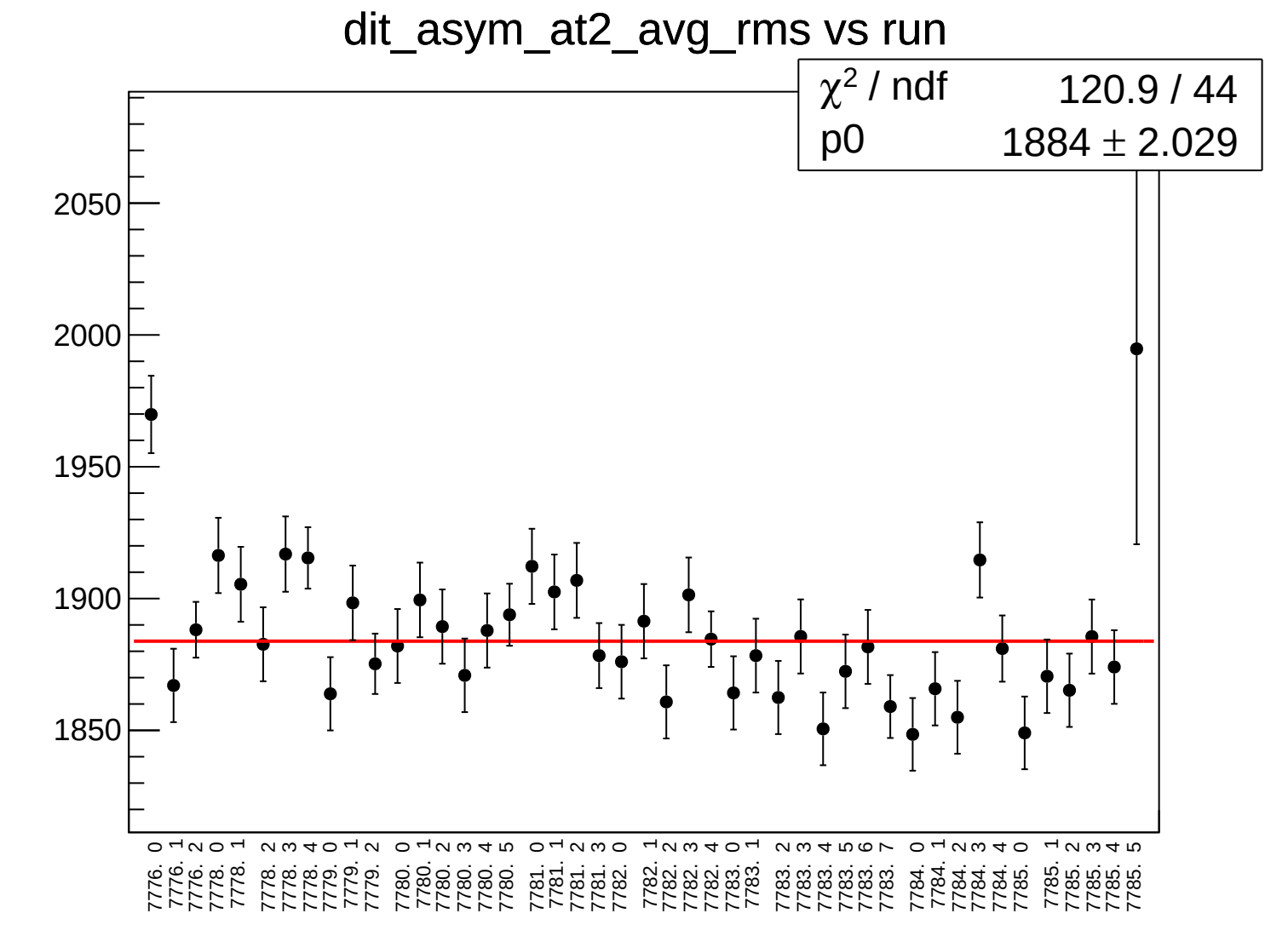

asym_at1_dd_mean vs run
×10^3
χ² / ndf 33.68 / 44
p0 −3913 ± 3154
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 74.32
Std Dev 23.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

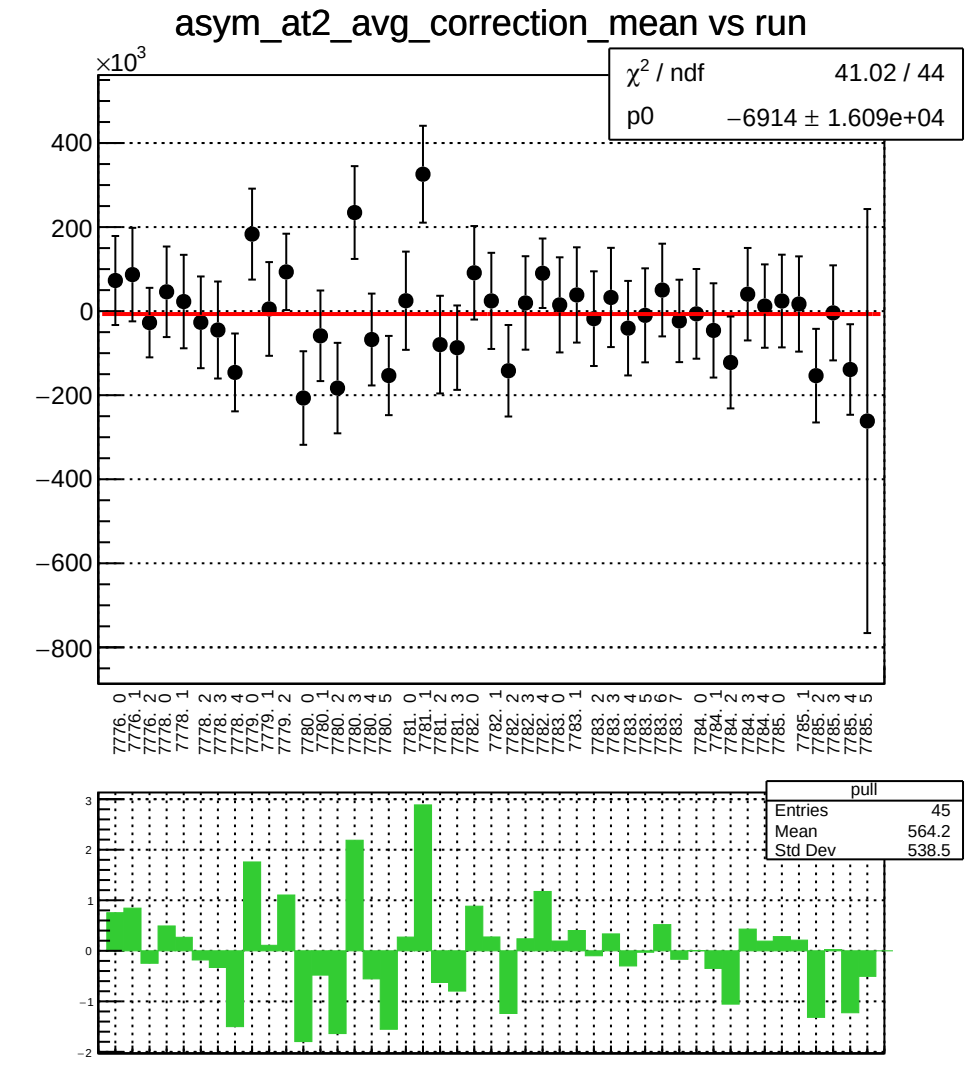

pull1D
Entries 45
Mean −0.01553
Std Dev 0.865
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

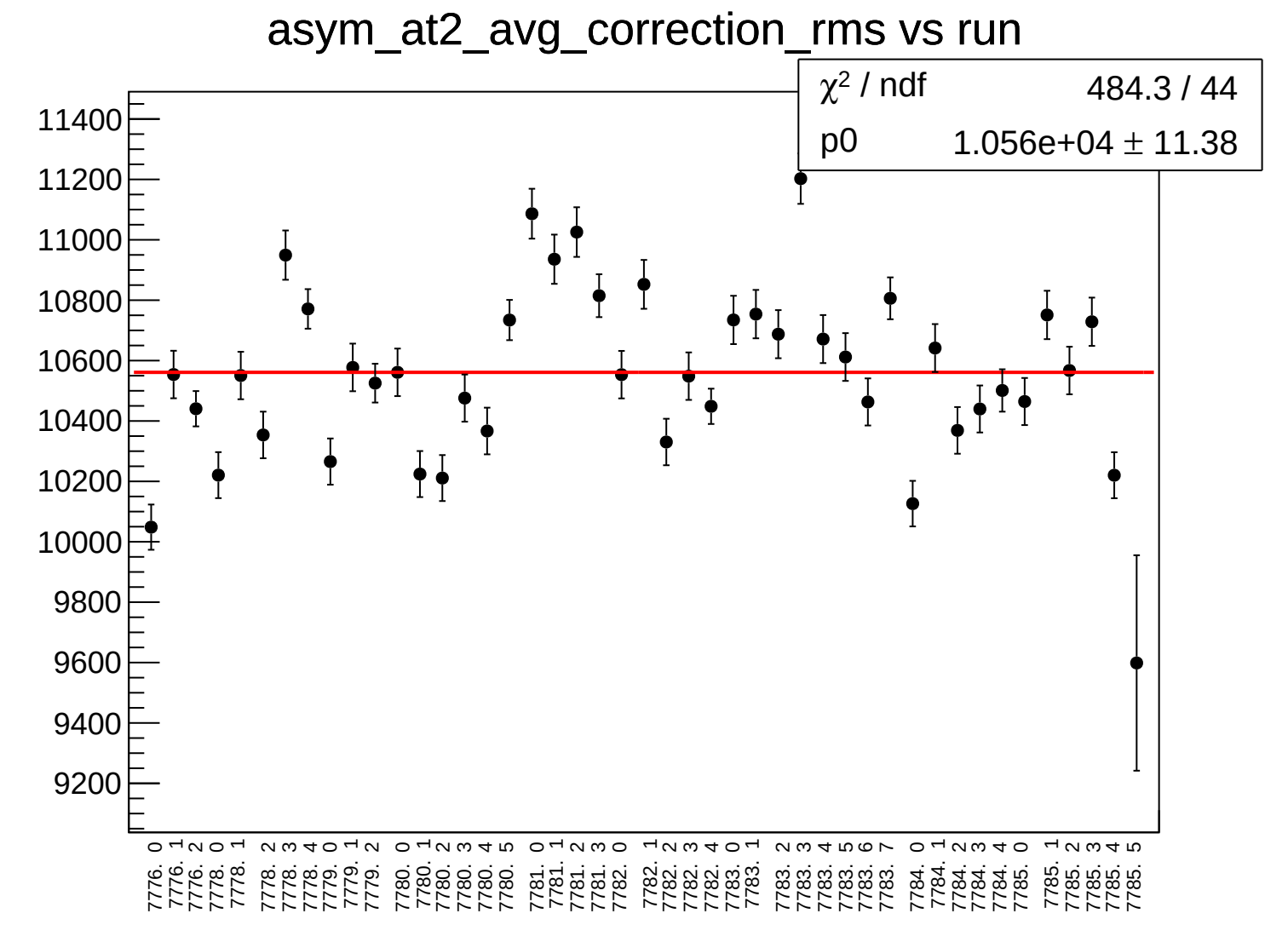

asym_at1_dd_rms vs run
χ² / ndf 7374 / 44
p0 2062 ± 2.23
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

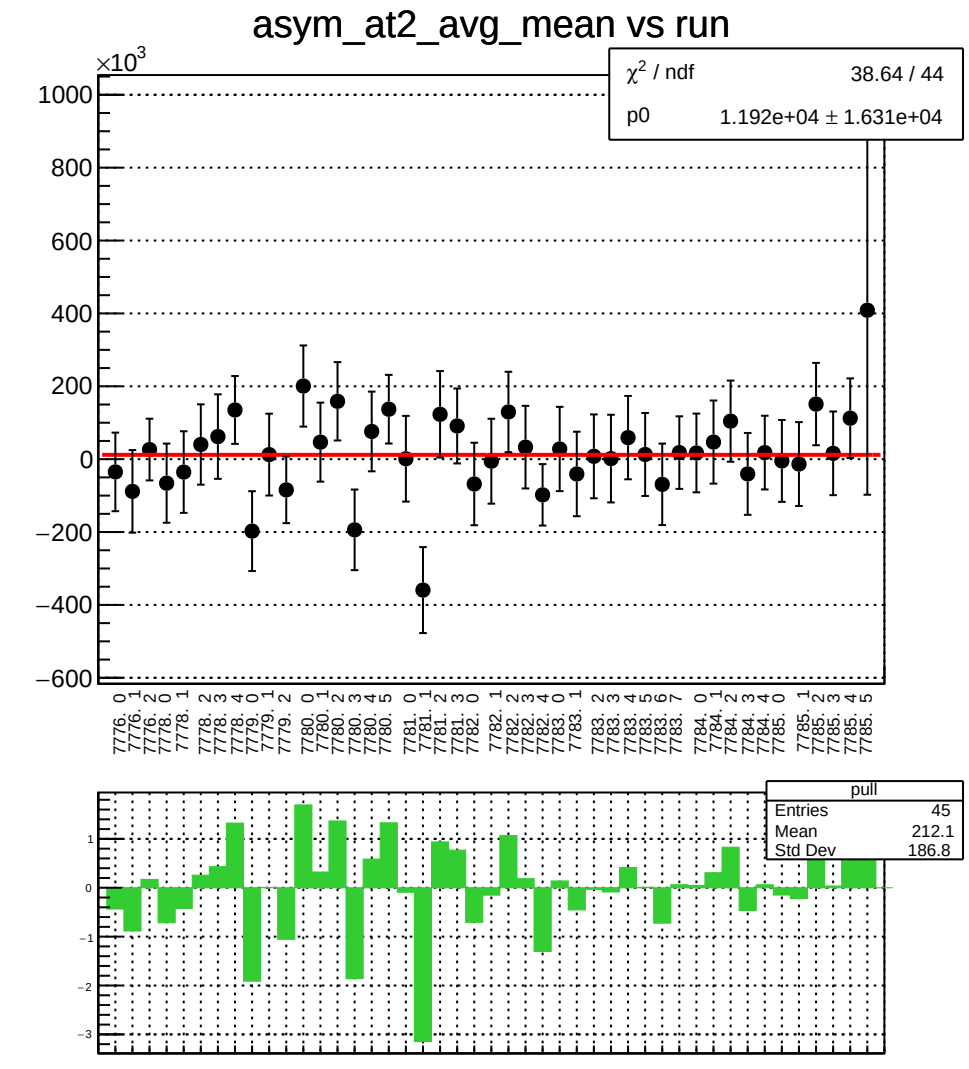

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 50.51 / 44
p0 4750 ± 2869
250
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 45.43
Std Dev 25.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

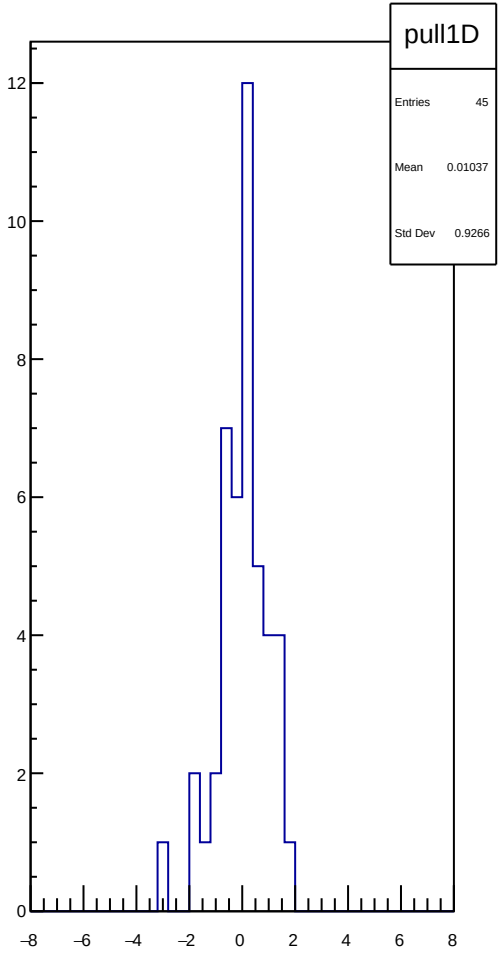

pull1D
Entries 45
Mean 0.04236
Std Dev 1.059
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

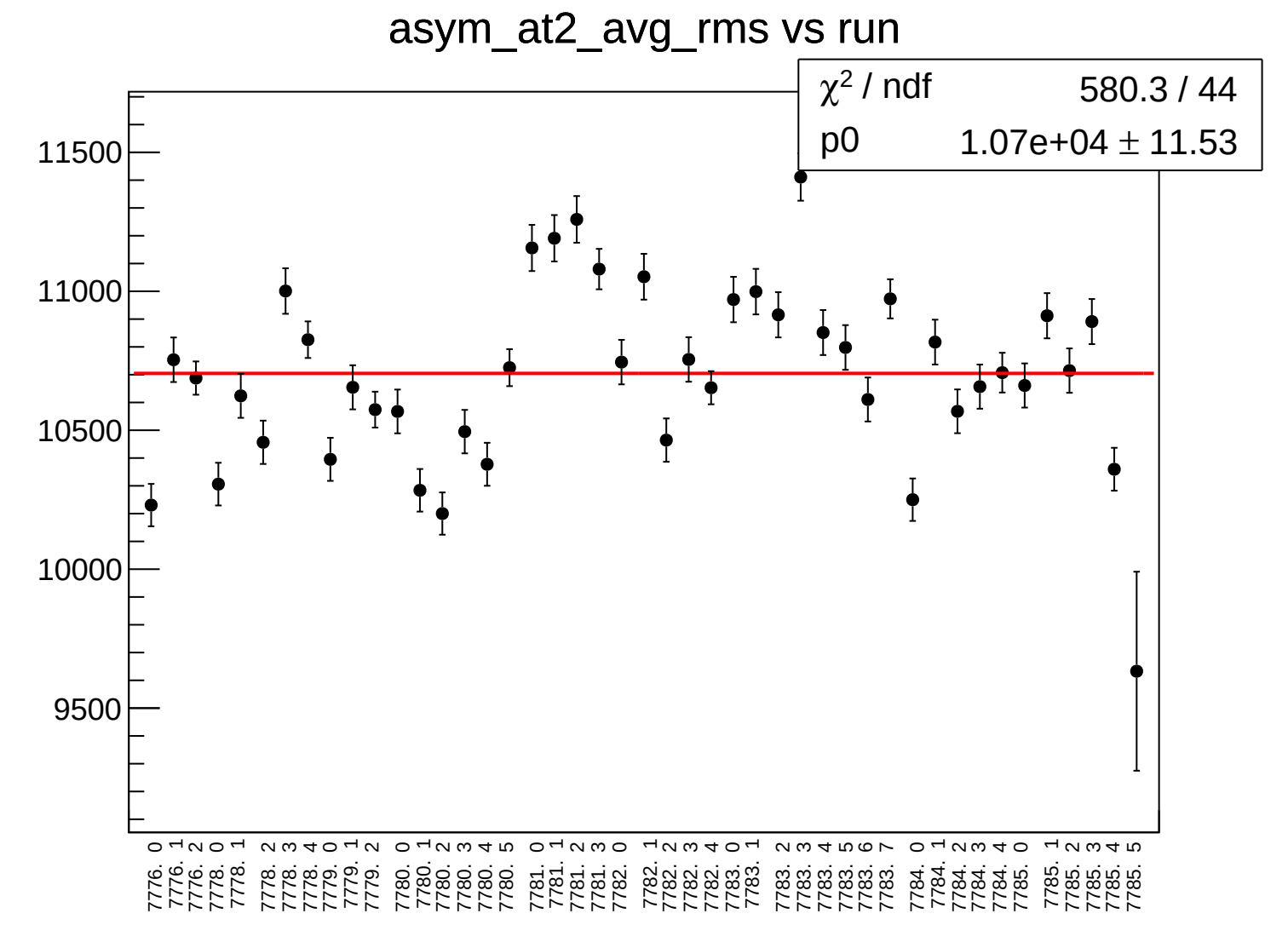

dit_asym_at2_avg_rms vs run
χ^2 / ndf 120.9 / 44
p0 1884 ± 2.029
2050
2000
1950
1900
1850
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

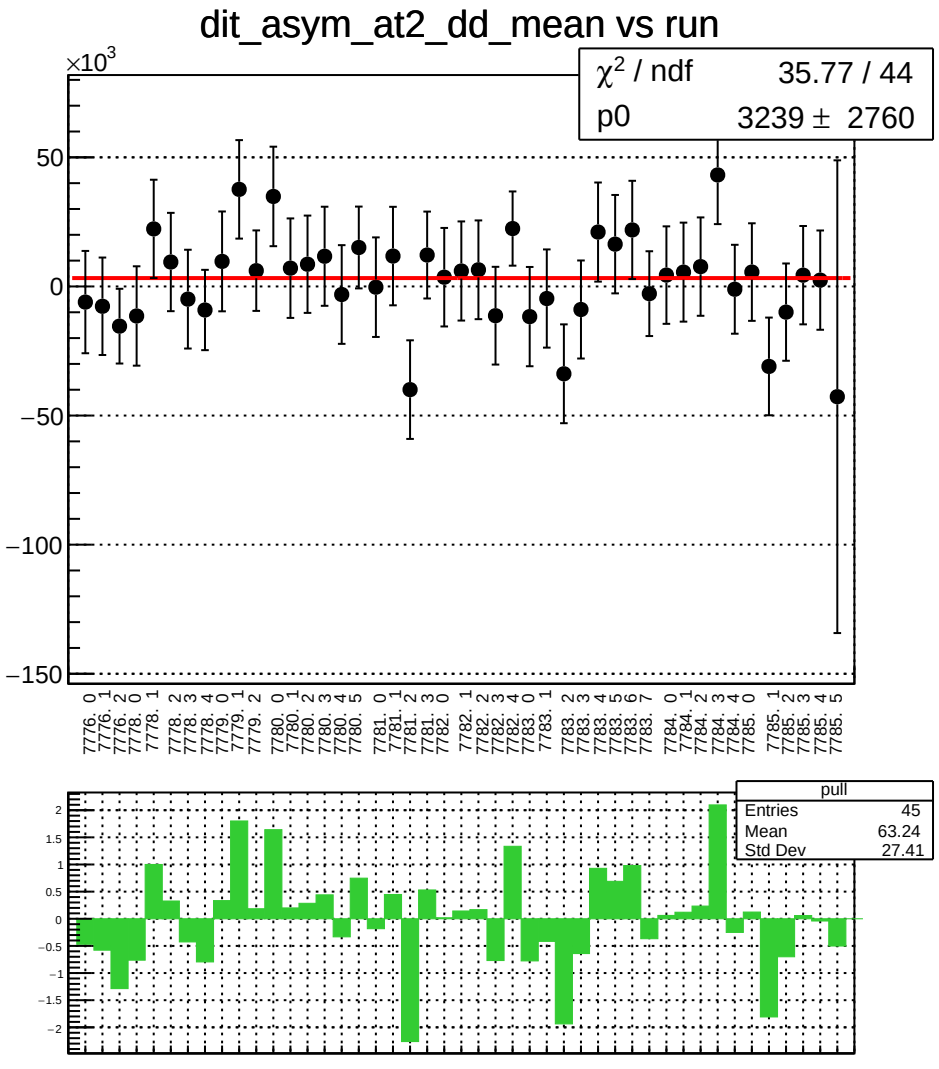

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 41.02 / 44
p0 −6914 ± 1.609e+04
400
200
0
−200
−400
−600
−800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 564.2
Std Dev 538.5
3
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.003355
Std Dev 0.9547
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

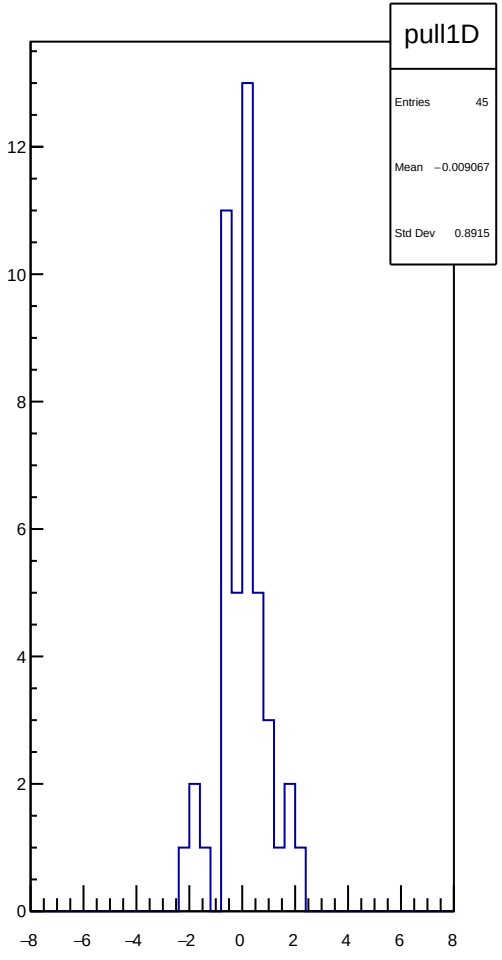

asym_at2_avg_correction_rms vs run
χ² / ndf 484.3 / 44
p0 1.056e+04 ± 11.38
11400
11200
11000
10800
10600
10400
10200
10000
9800
9600
9400
9200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

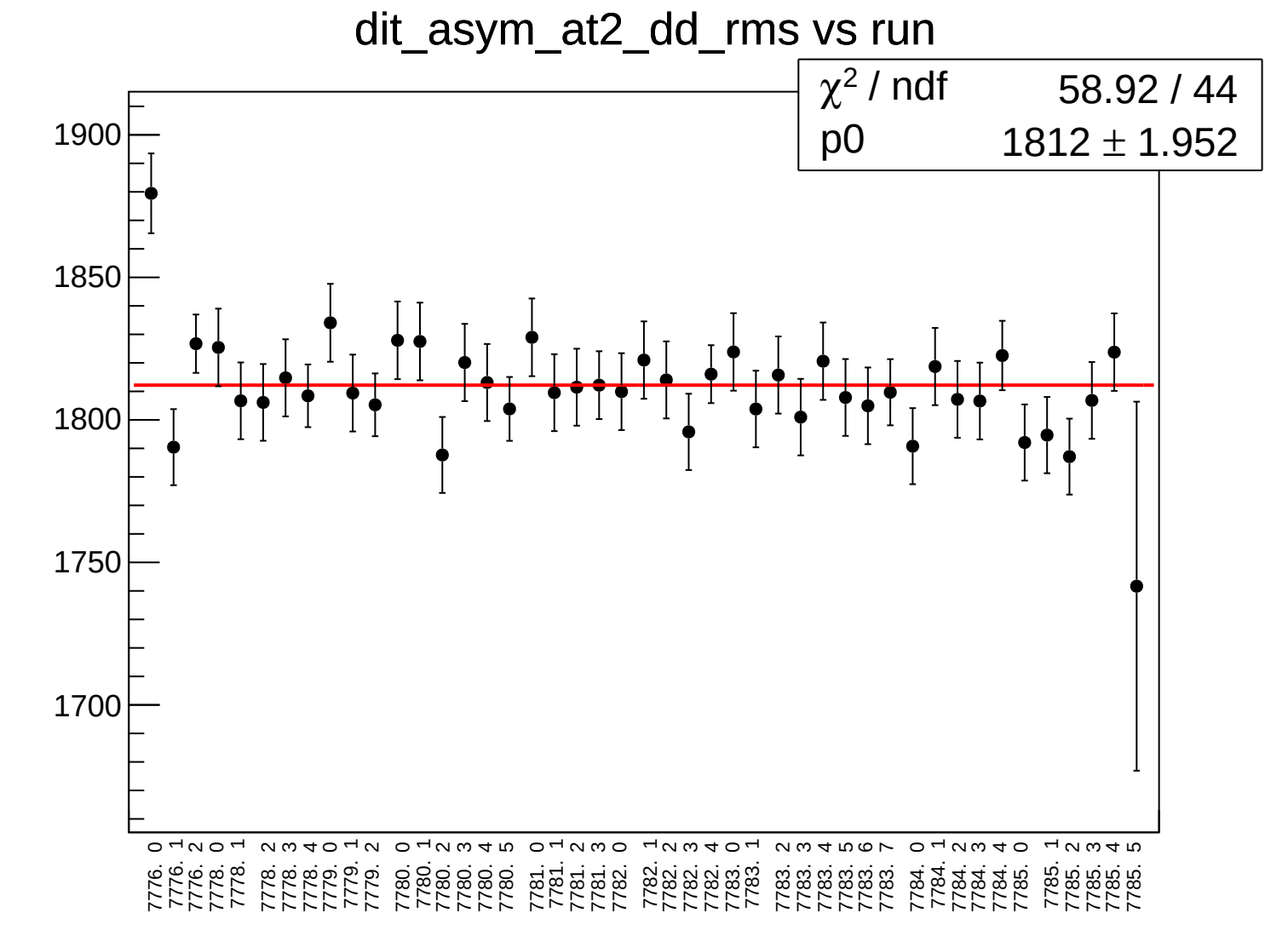

asym_at2_avg_mean vs run
×10^3
χ² / ndf 38.64 / 44
p0 1.192e+04 ± 1.631e+04
pull
Entries 45
Mean 212.1
Std Dev 186.8

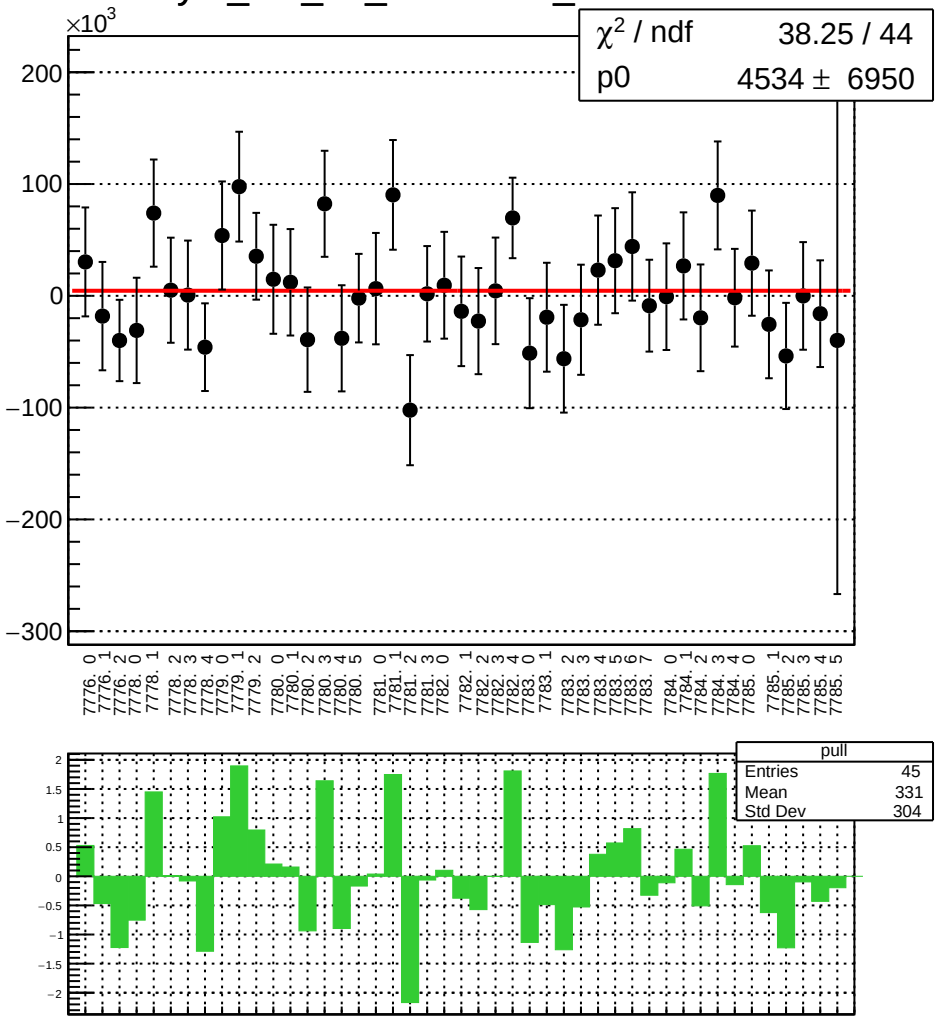

pull1D
Entries 45
Mean 0.01037
Std Dev 0.9266

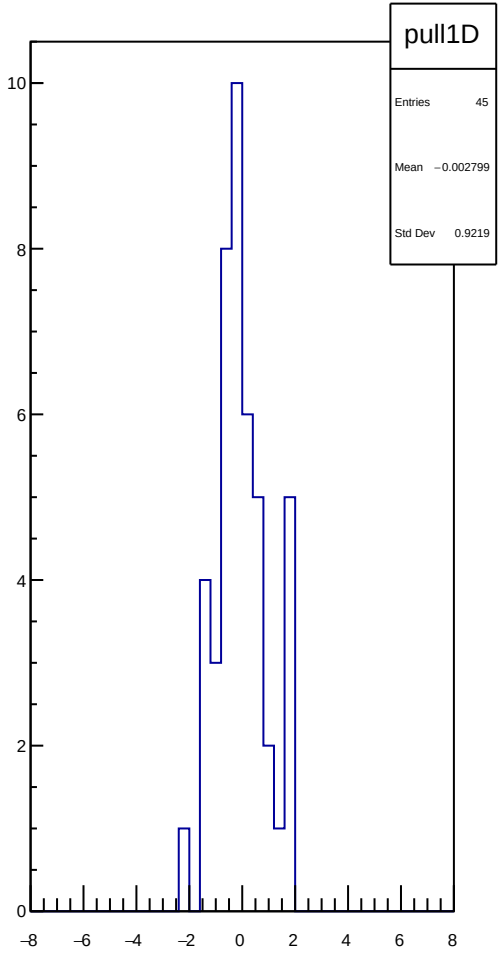

asym_at2_avg_rms vs run
χ² / ndf 580.3 / 44
p0 1.07e+04 ± 11.53
11500
11000
10500
10000
9500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

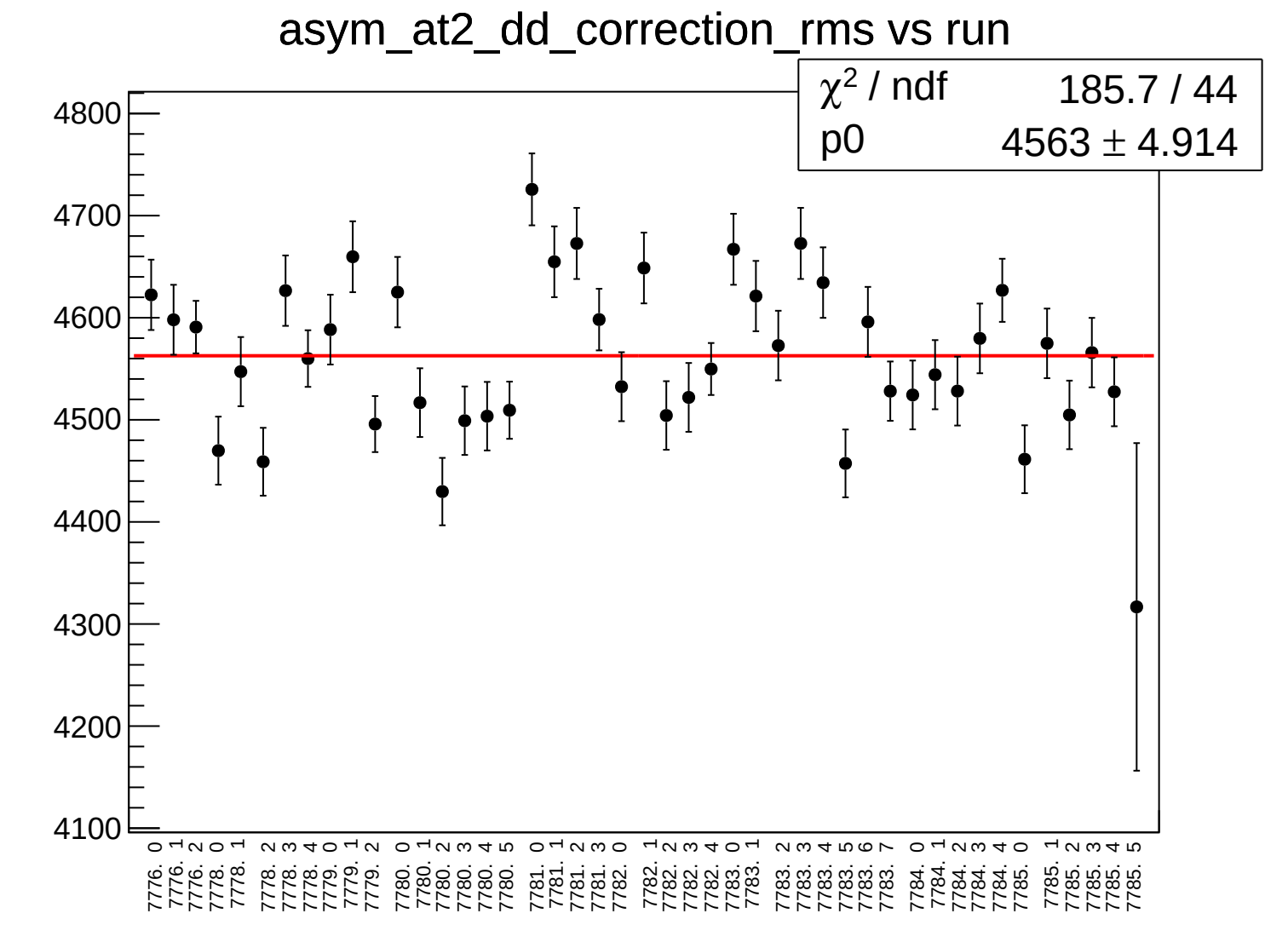

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 35.77 / 44
p0 3239 ± 2760
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 63.24
Std Dev 27.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

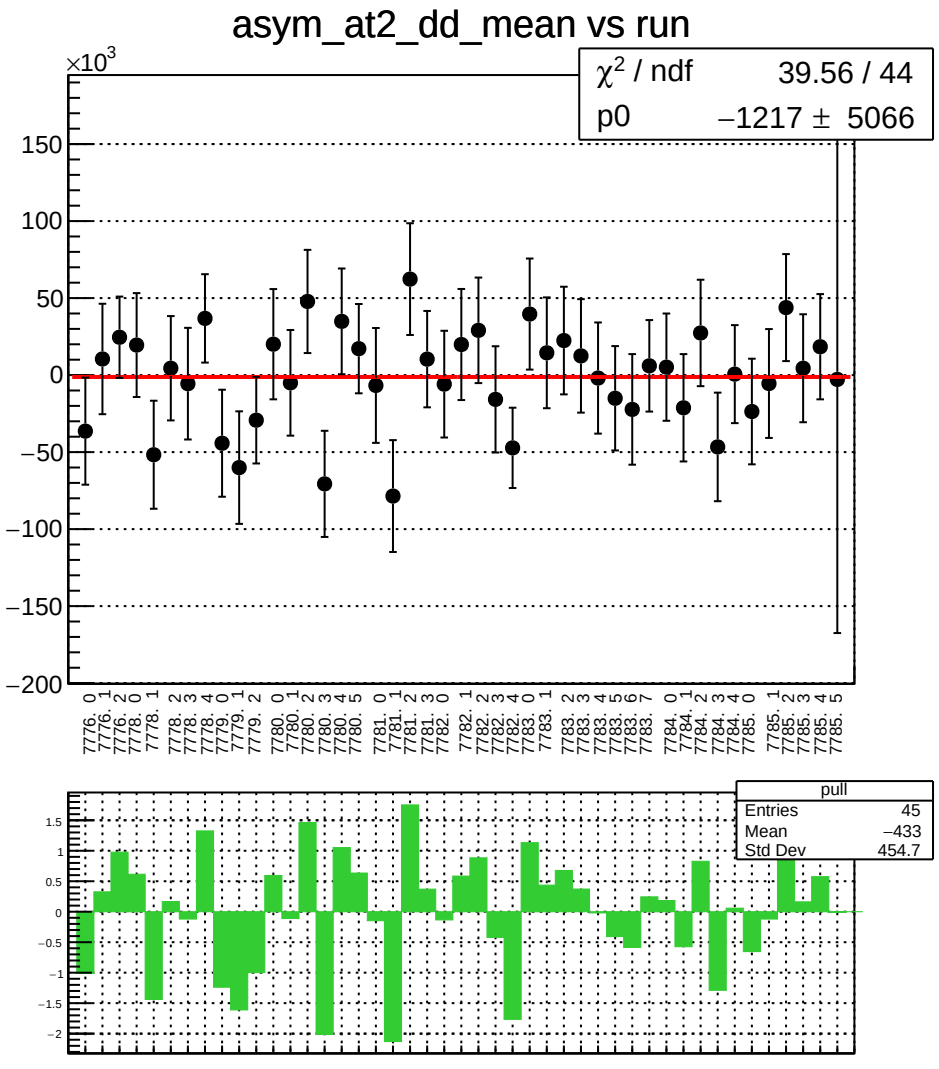

pull1D
Entries 45
Mean −0.009067
Std Dev 0.8915
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

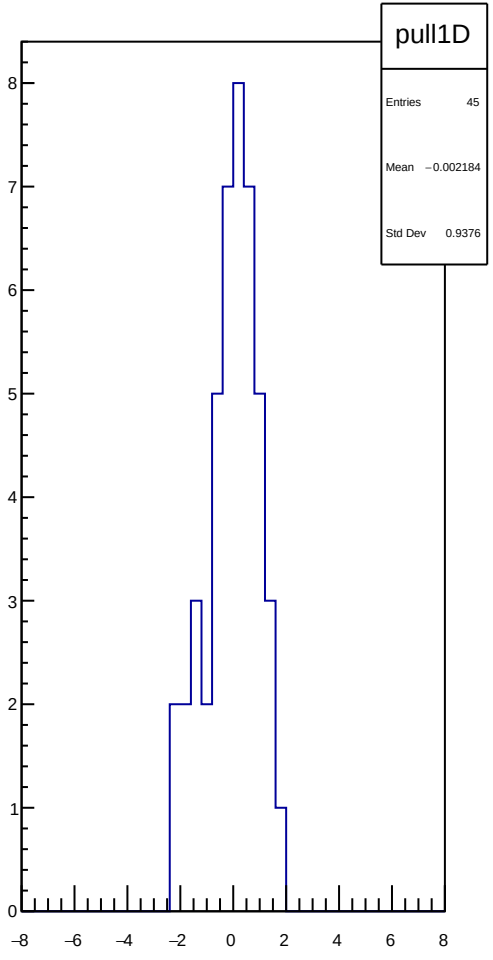

dit_asym_at2_dd_rms vs run
χ² / ndf 58.92 / 44
p0 1812 ± 1.952
1900
1850
1800
1750
1700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

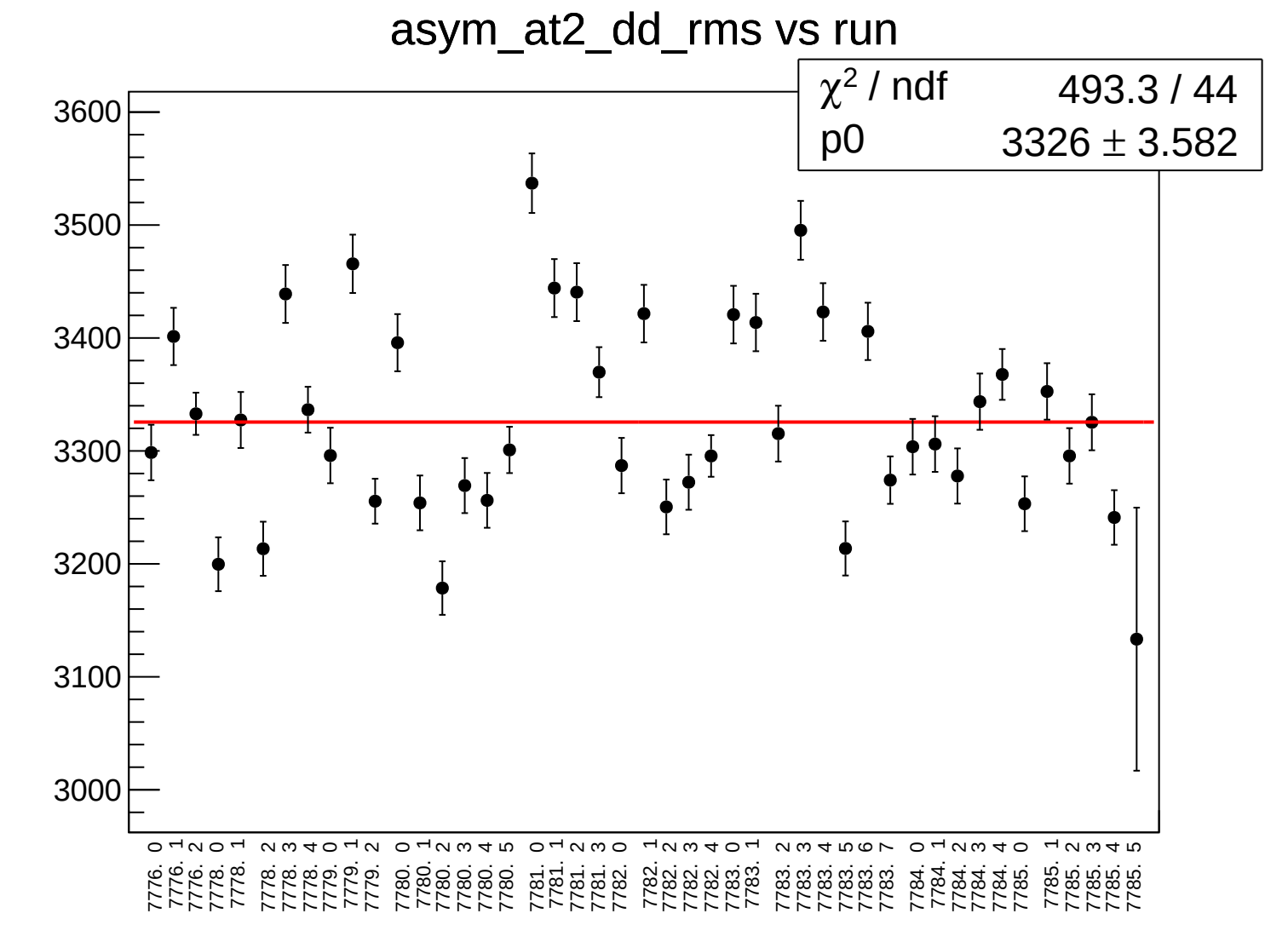

asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 38.25 / 44
p0 4534 ± 6950
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 331
Std Dev 304
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

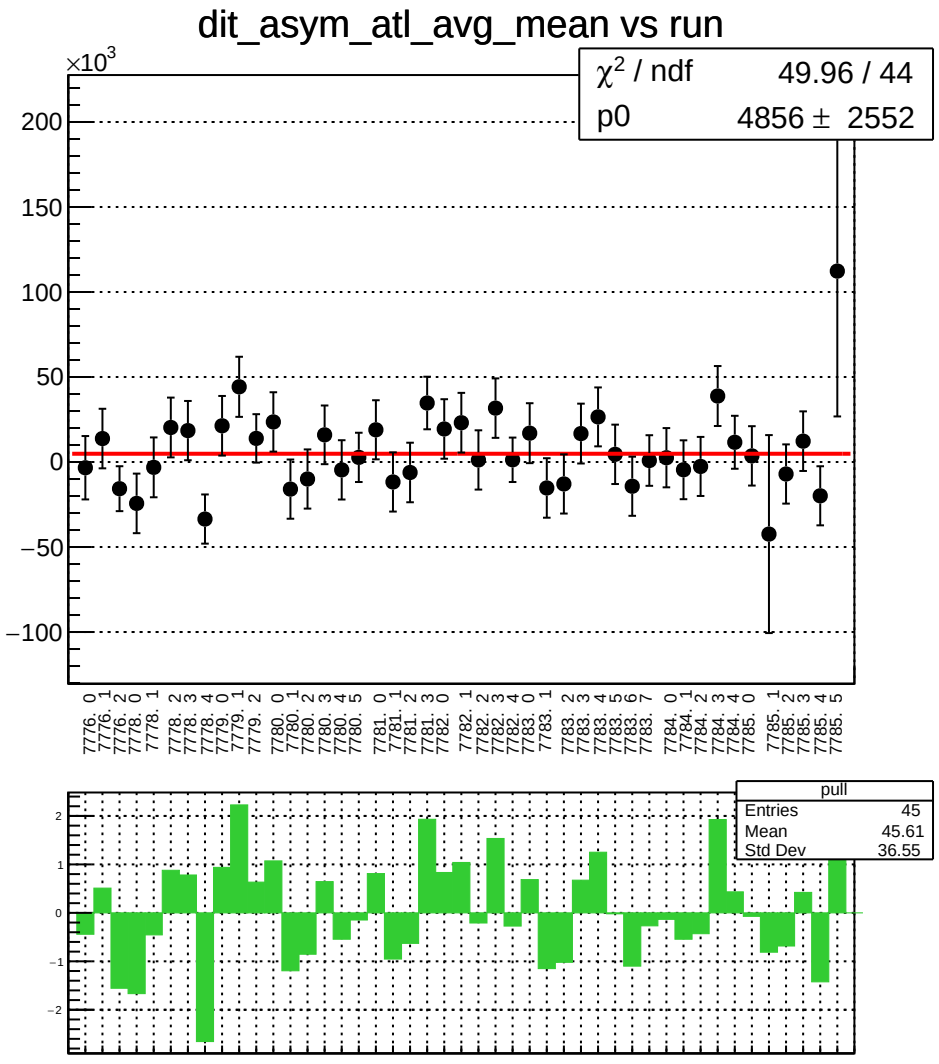

pull1D
Entries 45
Mean −0.002799
Std Dev 0.9219
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

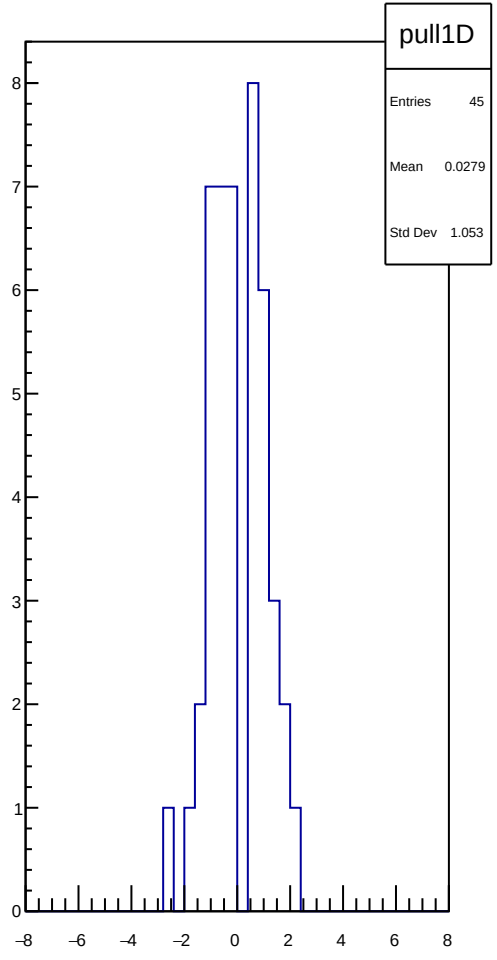

asym_at2_dd_correction_rms vs run
χ² / ndf 185.7 / 44
p0 4563 ± 4.914
4800
4700
4600
4500
4400
4300
4200
4100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

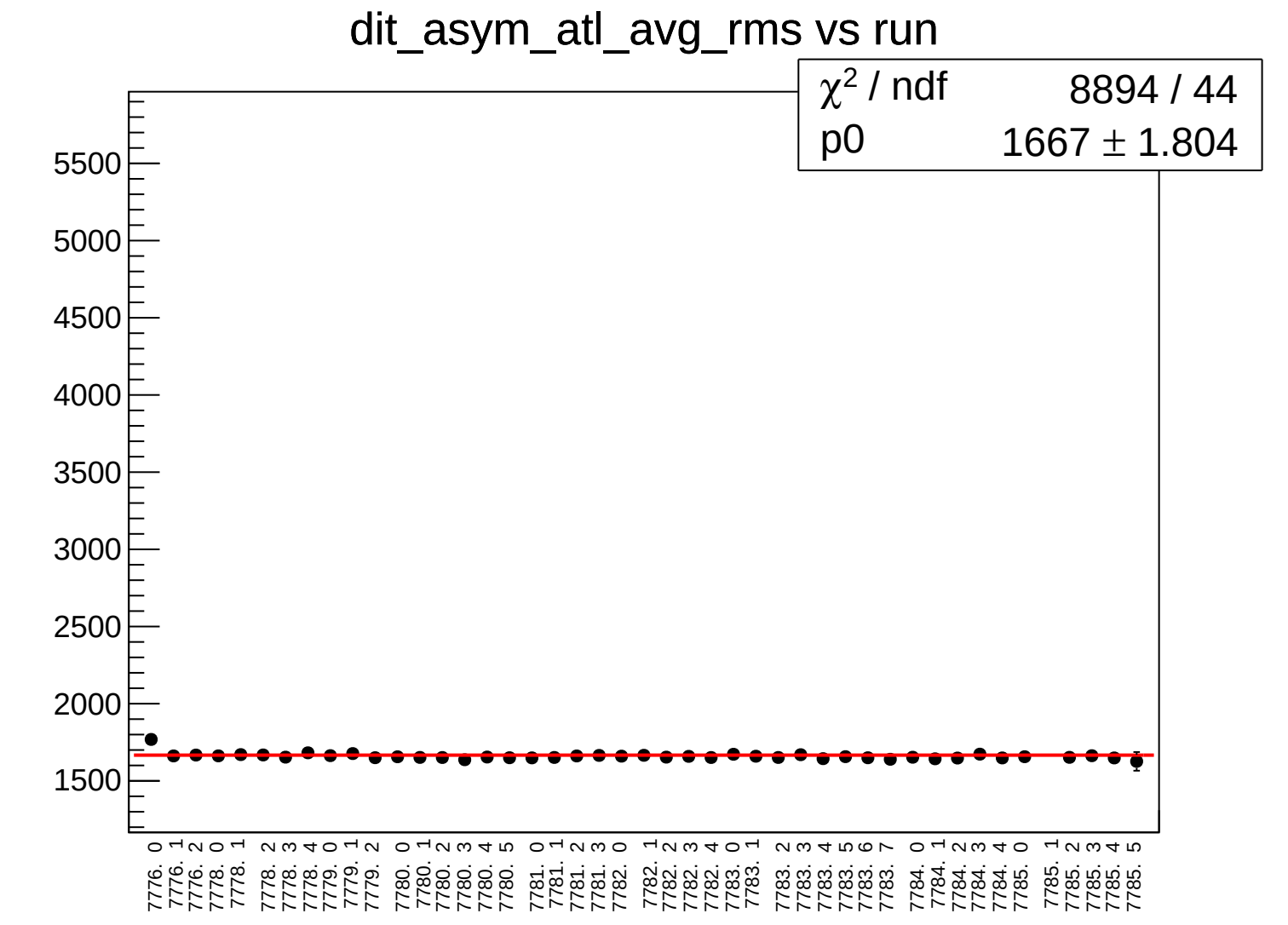

asym_at2_dd_mean vs run
×10^3
χ² / ndf 39.56 / 44
p0 −1217 ± 5066
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −433
Std Dev 454.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

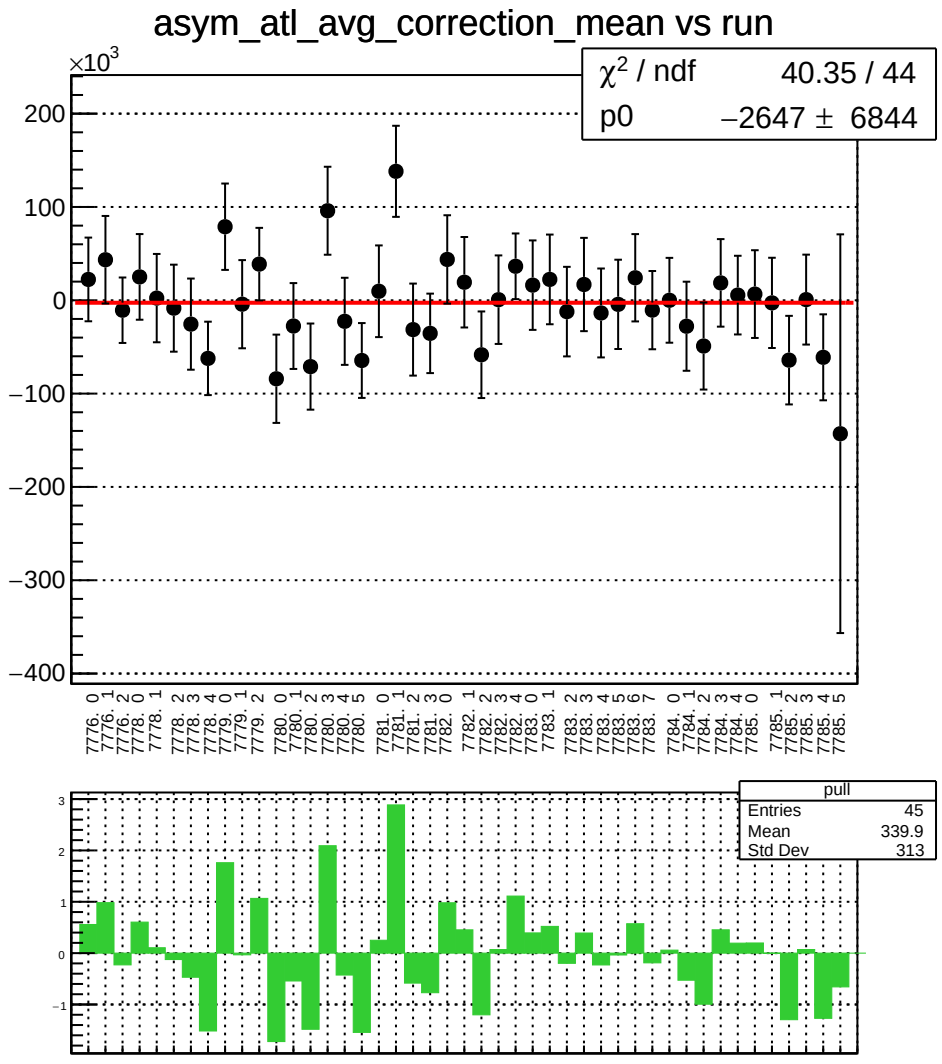

pull1D
Entries 45
Mean −0.002184
Std Dev 0.9376
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

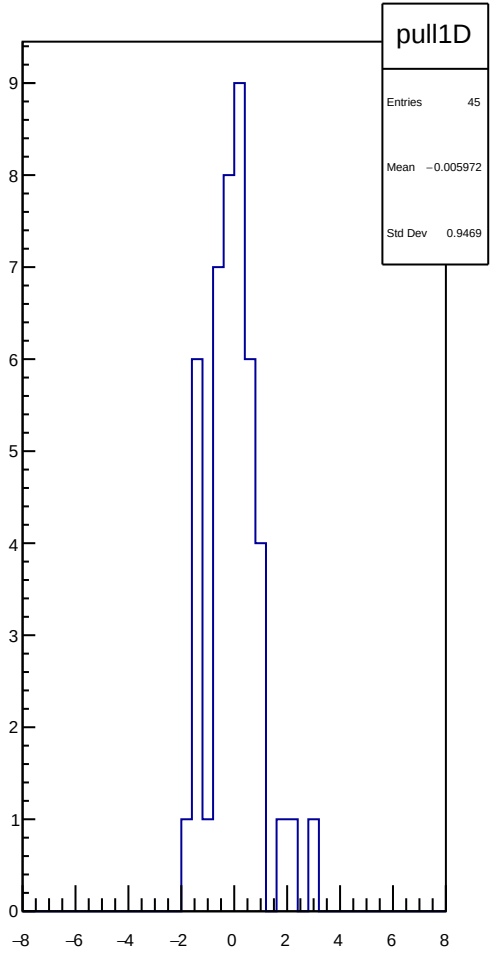

asym_at2_dd_rms vs run
χ² / ndf 493.3 / 44
p0 3326 ± 3.582
3600
3500
3400
3300
3200
3100
3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

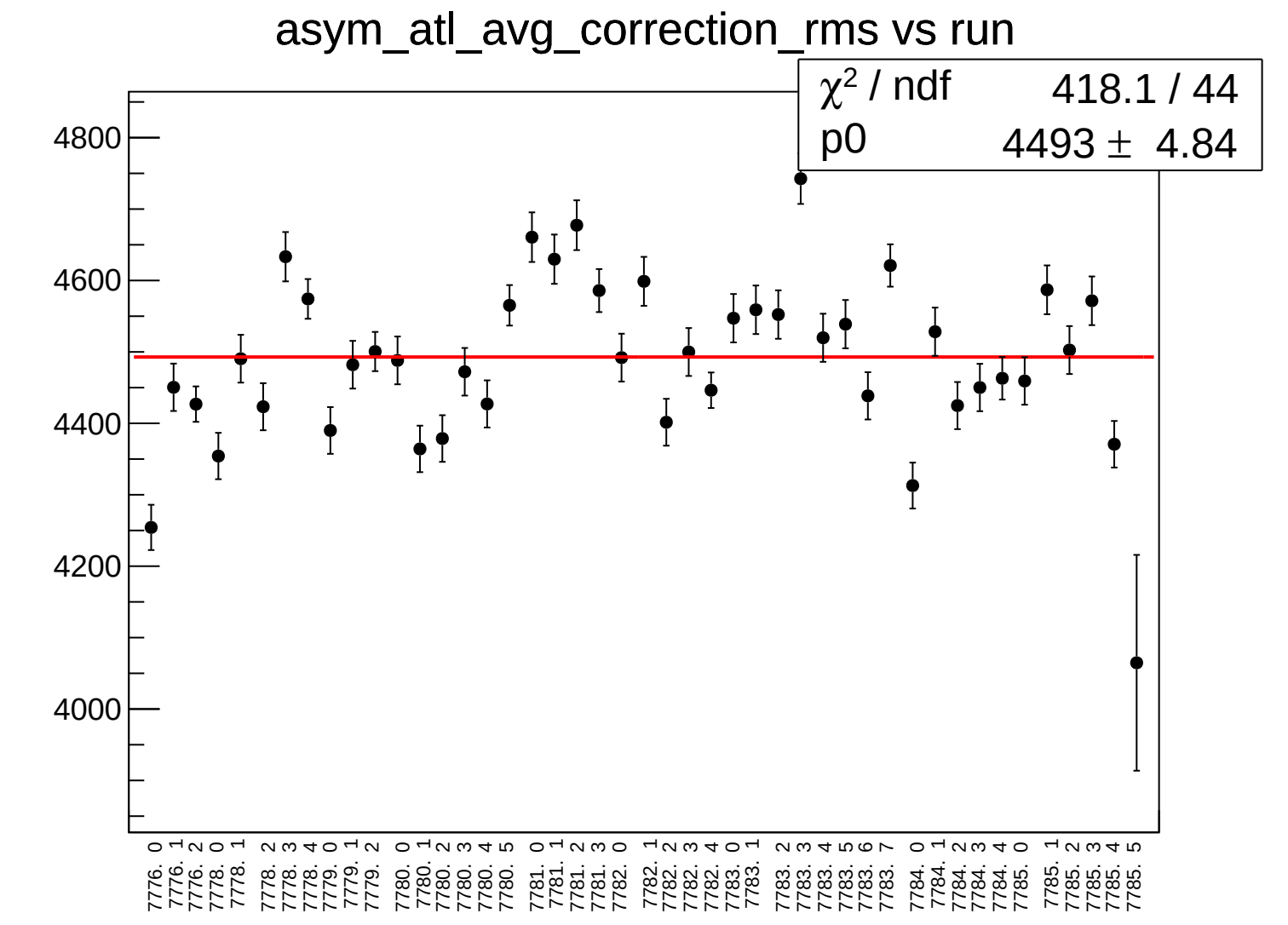

dit_asym_atl_avg_mean vs run
χ² / ndf 49.96 / 44
p0 4856 ± 2552
×10³
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 45.61
Std Dev 36.55
2
1
0
−1
−2

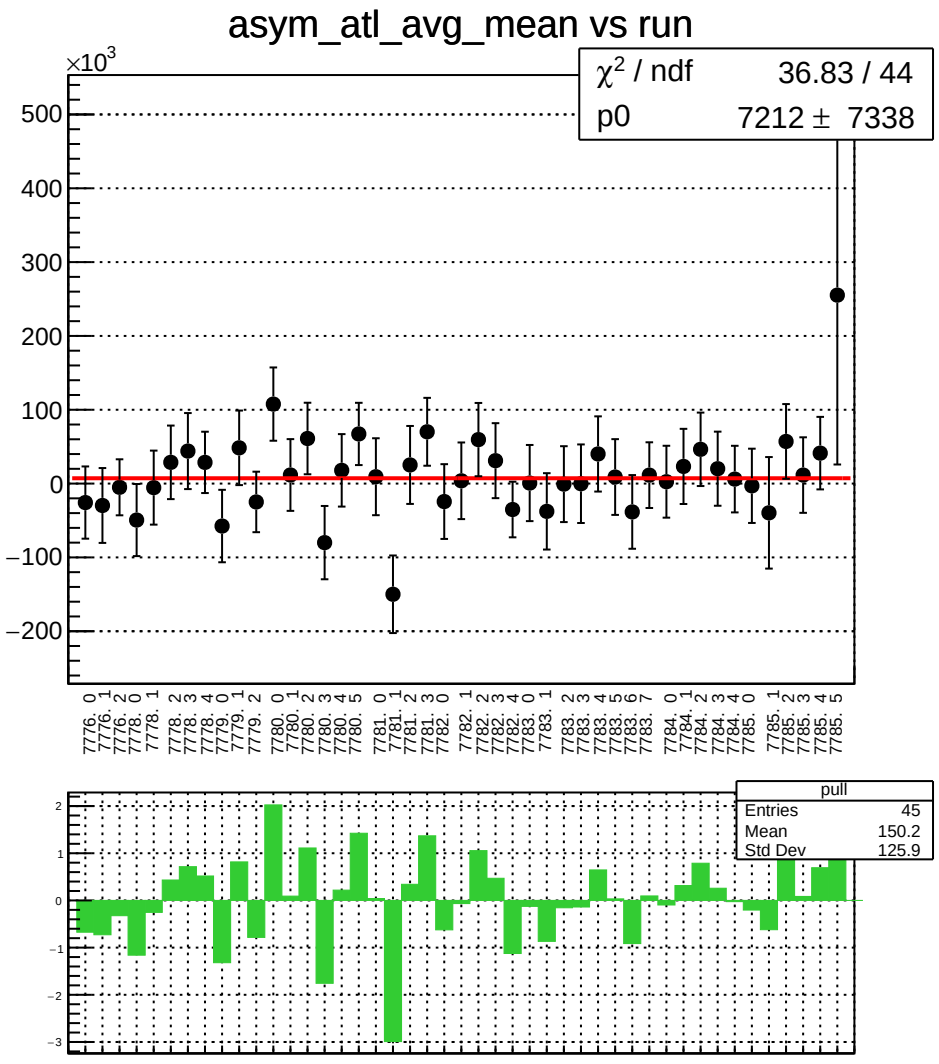

pull1D
Entries 45
Mean 0.0279
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

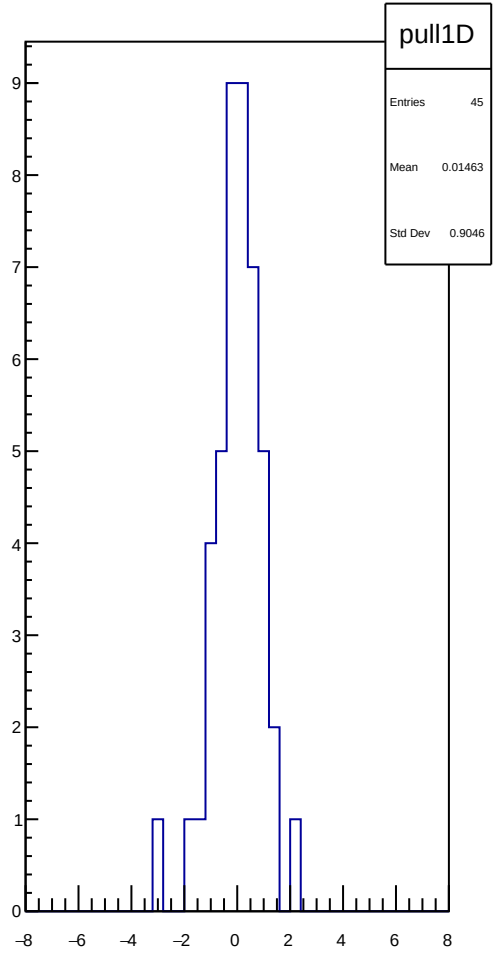

dit_asym_atl_avg_rms vs run
χ² / ndf 8894 / 44
p0 1667 ± 1.804
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

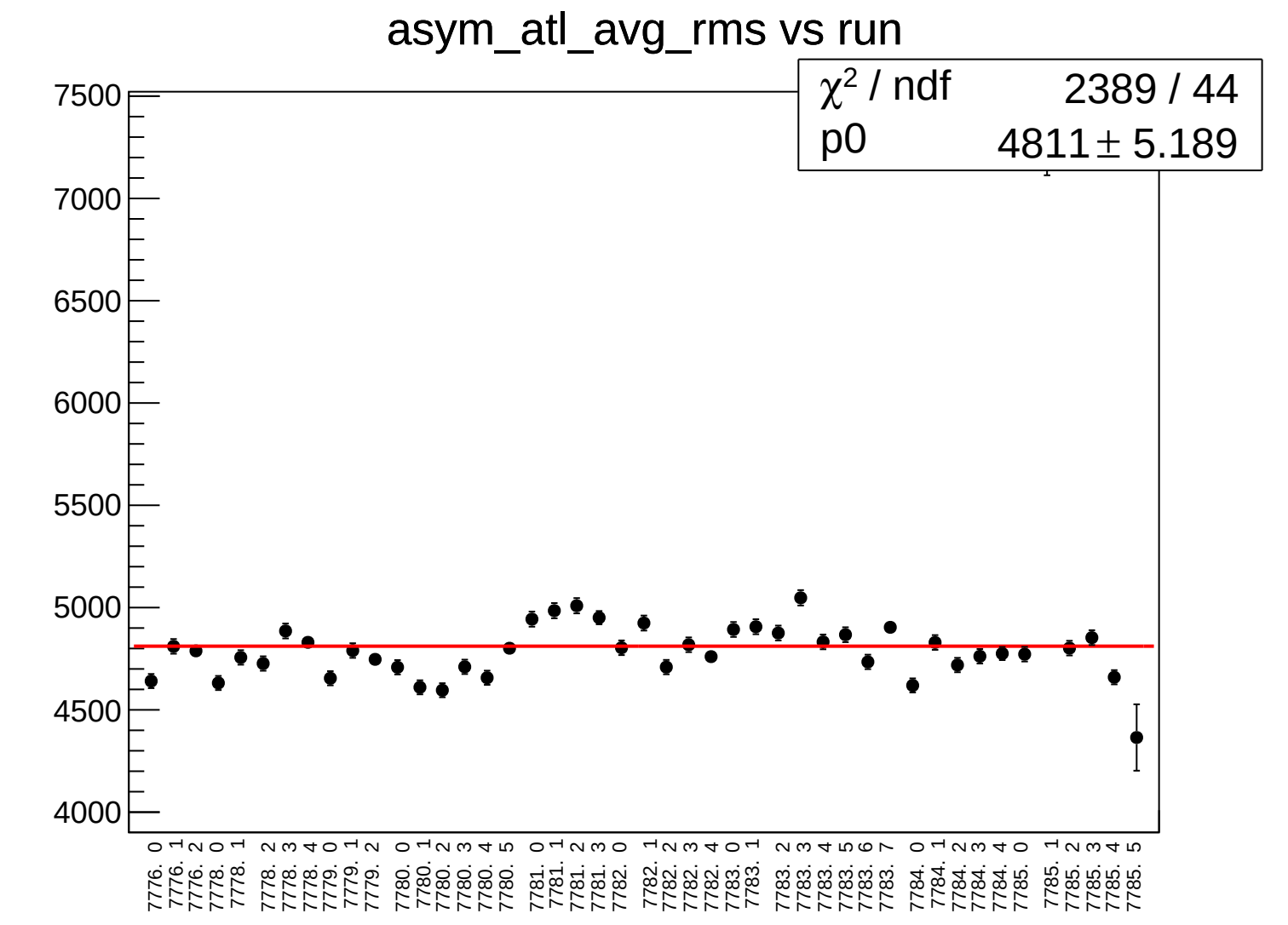

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 40.35 / 44
p0 −2647 ± 6844
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 339.9
Std Dev 313
3
2
1
0
−1

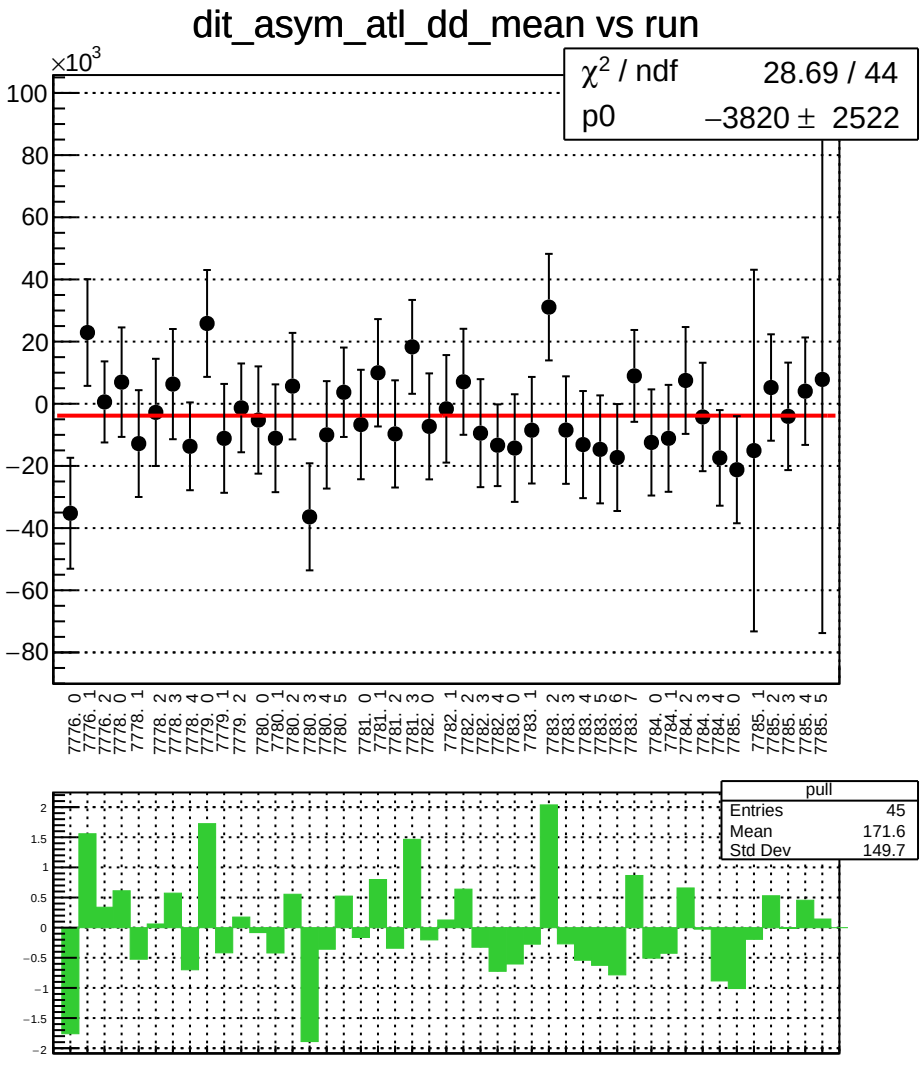

pull1D
Entries 45
Mean −0.005972
Std Dev 0.9469
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

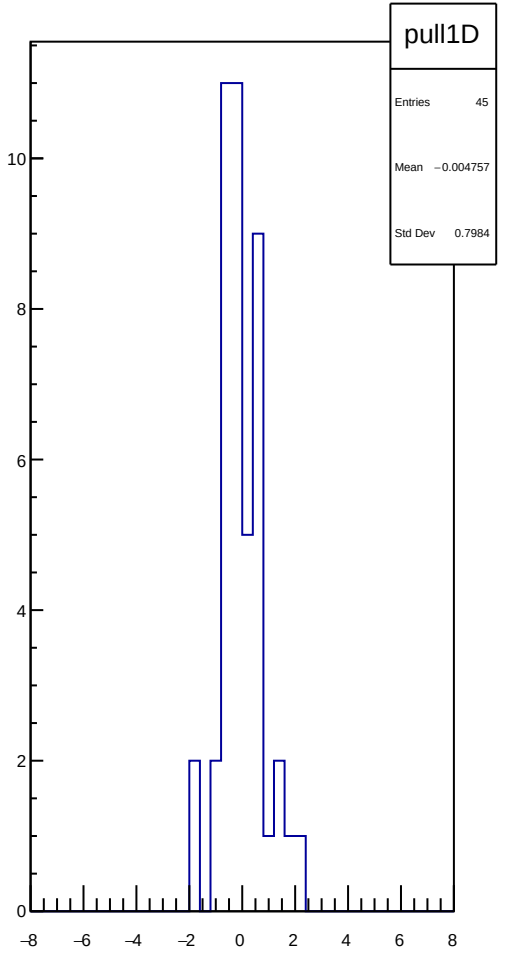

asym_atl_avg_correction_rms vs run
χ² / ndf 418.1 / 44
p0 4493 ± 4.84
4800
4600
4400
4200
4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

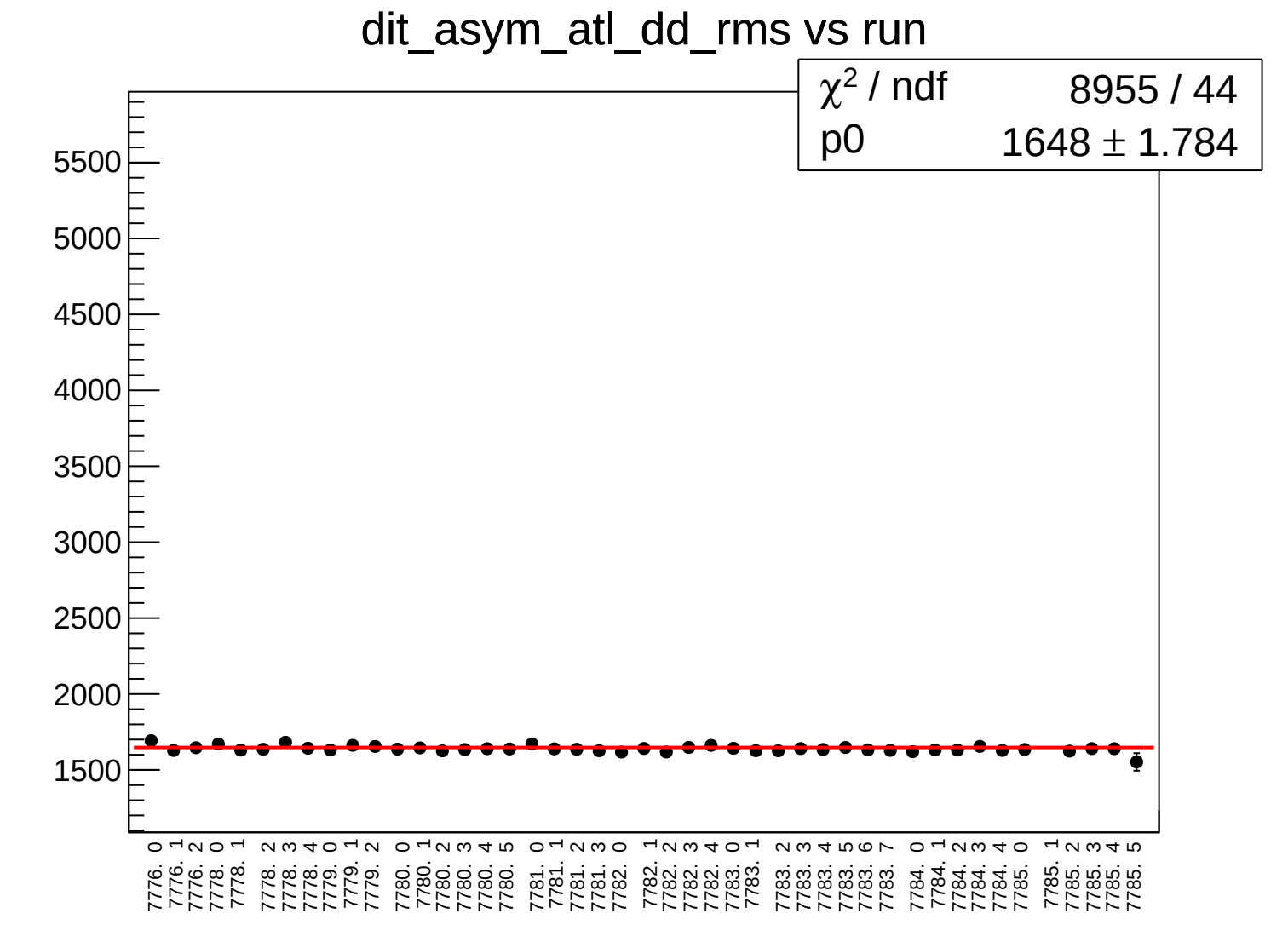

asym_atl_avg_mean vs run
×10^3
χ² / ndf 36.83 / 44
p0 7212 ± 7338
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 150.2
Std Dev 125.9
2
1
0
−1
−2
−3

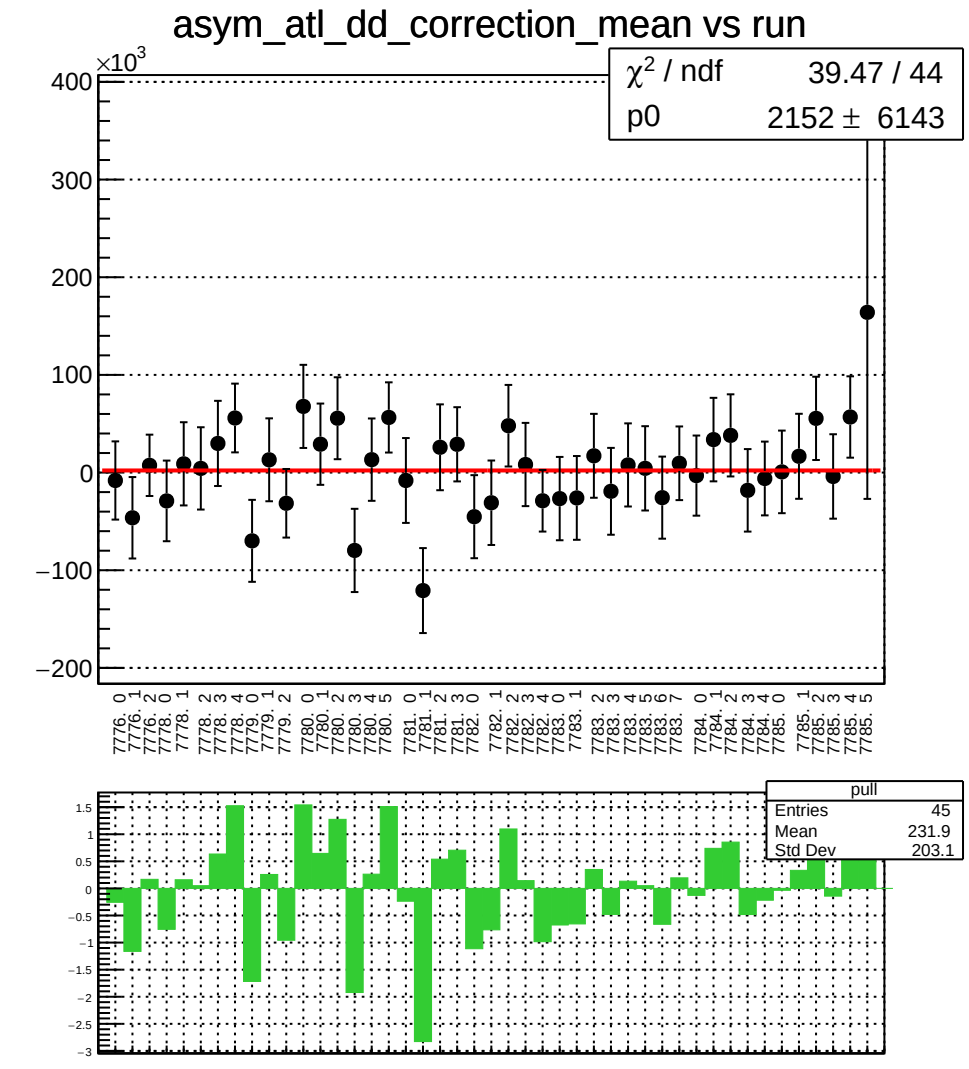

pull1D
Entries 45
Mean 0.01463
Std Dev 0.9046
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

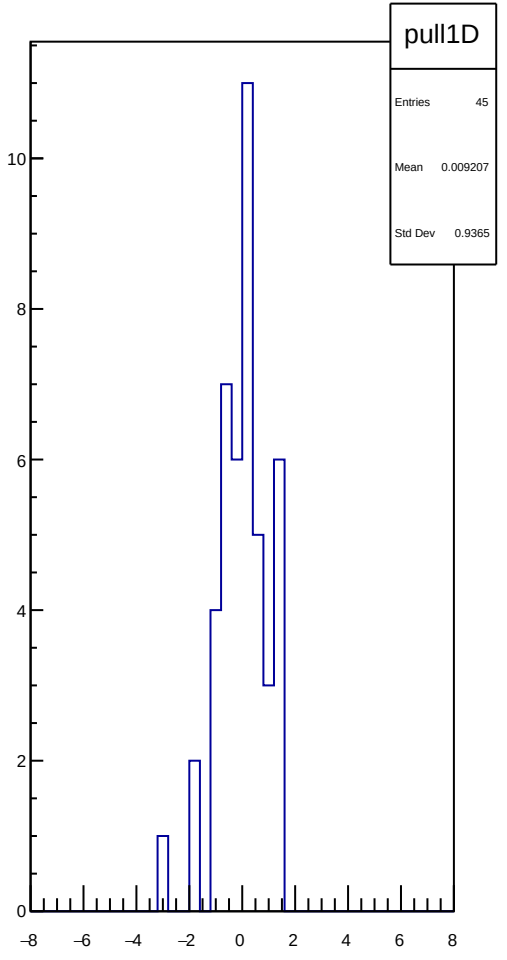

asym_atl_avg_rms vs run
χ² / ndf 2389 / 44
p0 4811 ± 5.189
7500
7000
6500
6000
5500
5000
4500
4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

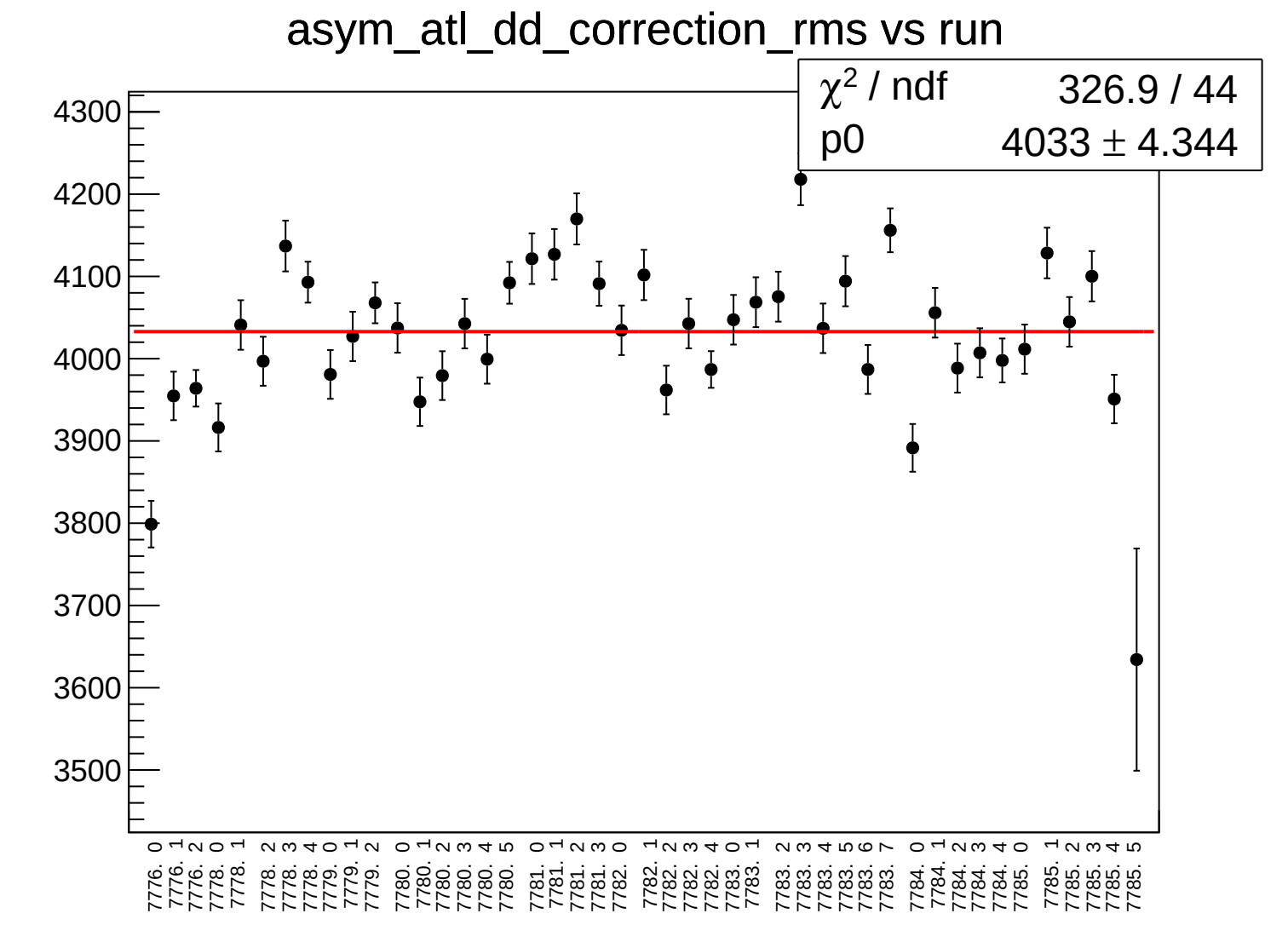

dit_asym_atl_dd_mean vs run
×10^3
χ² / ndf 28.69 / 44
p0 −3820 ± 2522
pull
Entries 45
Mean 171.6
Std Dev 149.7

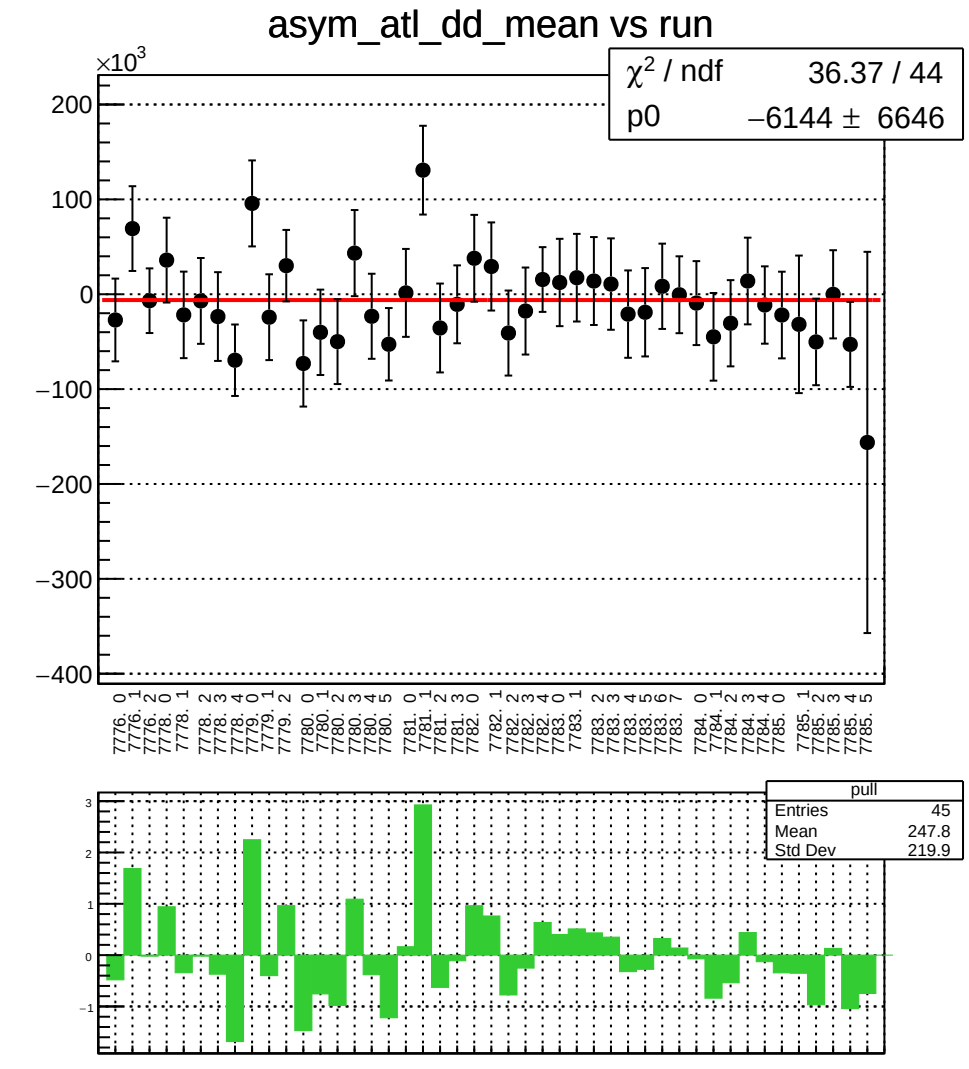

pull1D
Entries 45
Mean −0.004757
Std Dev 0.7984

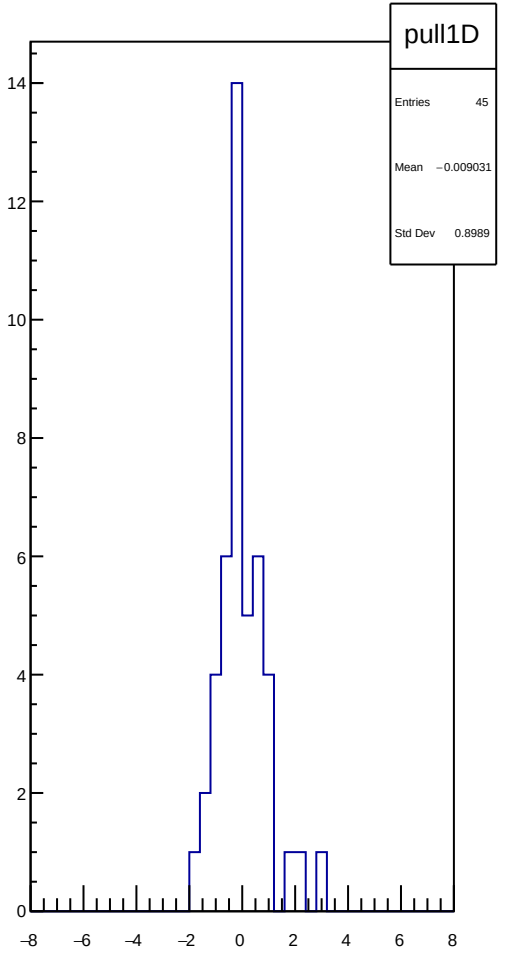

dit_asym_atl_dd_rms vs run
χ² / ndf 8955 / 44
p0 1648 ± 1.784
5500
5000
4500
4000
3500
3000
2500
2000
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

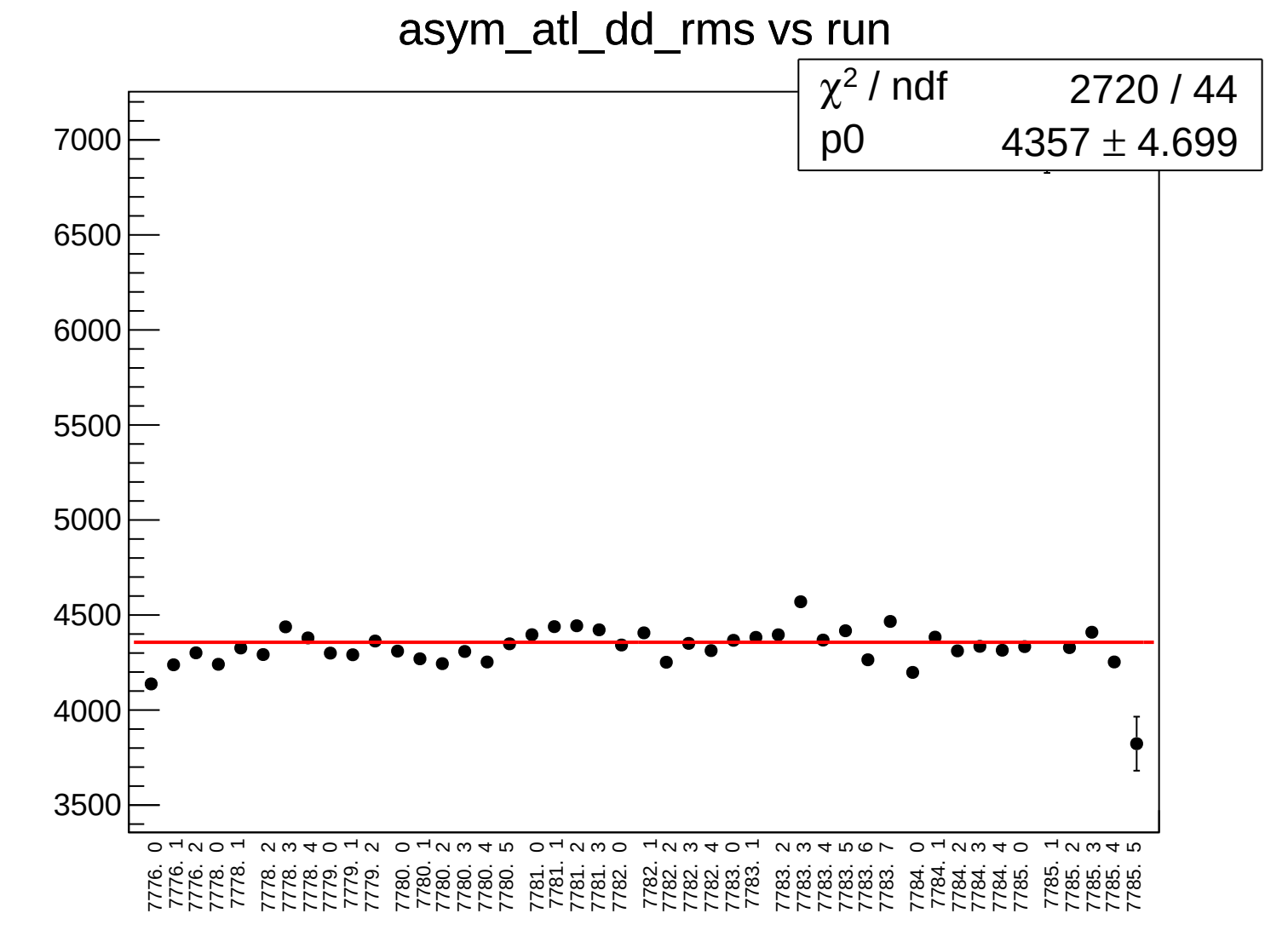

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 39.47 / 44
p0 2152 ± 6143
pull
Entries 45
Mean 231.9
Std Dev 203.1

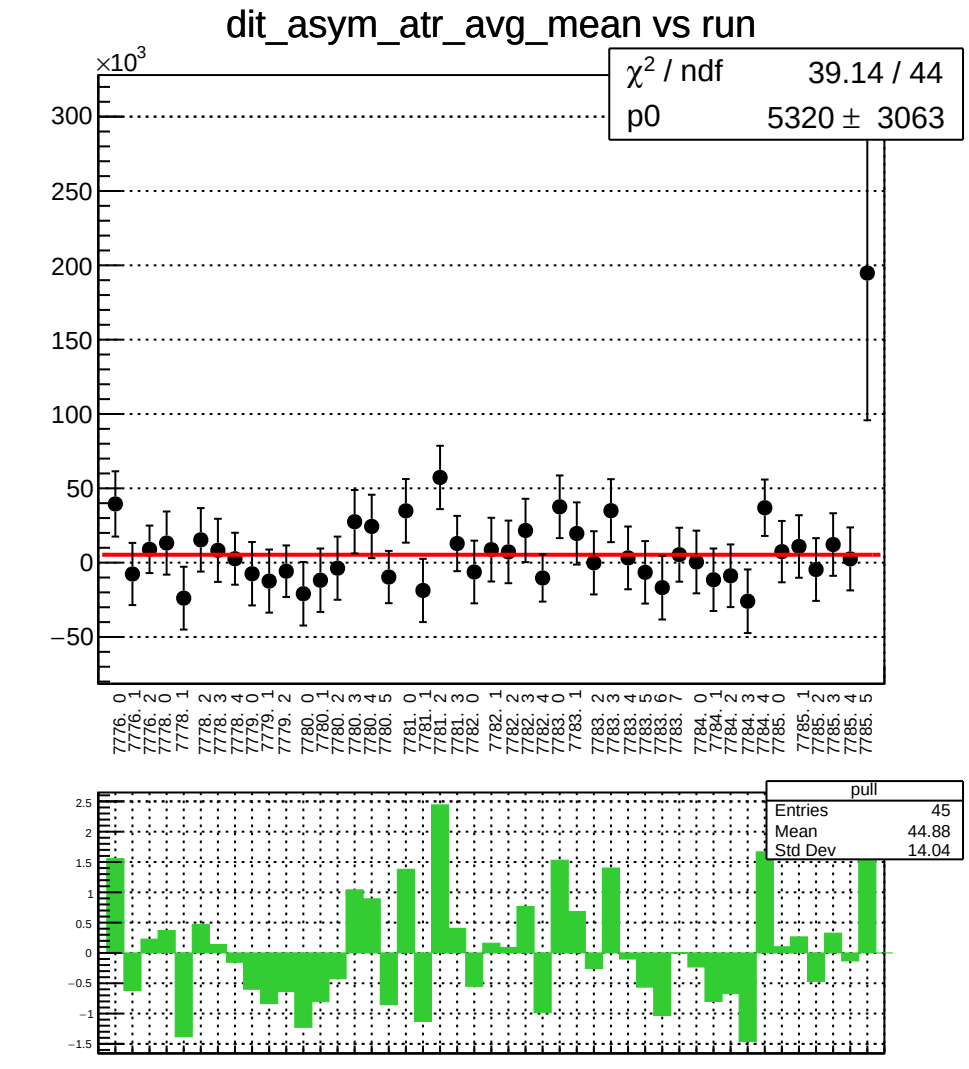

pull1D
Entries 45
Mean 0.009207
Std Dev 0.9365

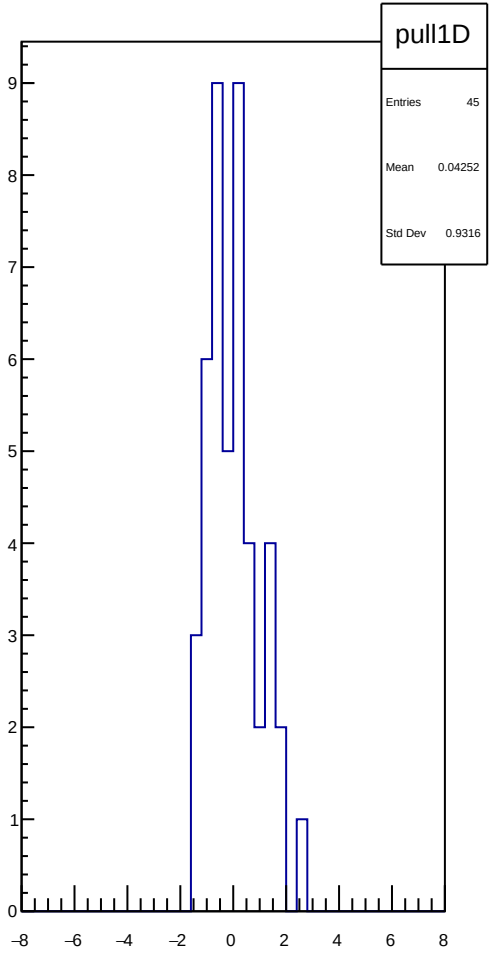

asym_atl_dd_correction_rms vs run
χ² / ndf 326.9 / 44
p0 4033 ± 4.344
4300
4200
4100
4000
3900
3800
3700
3600
3500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

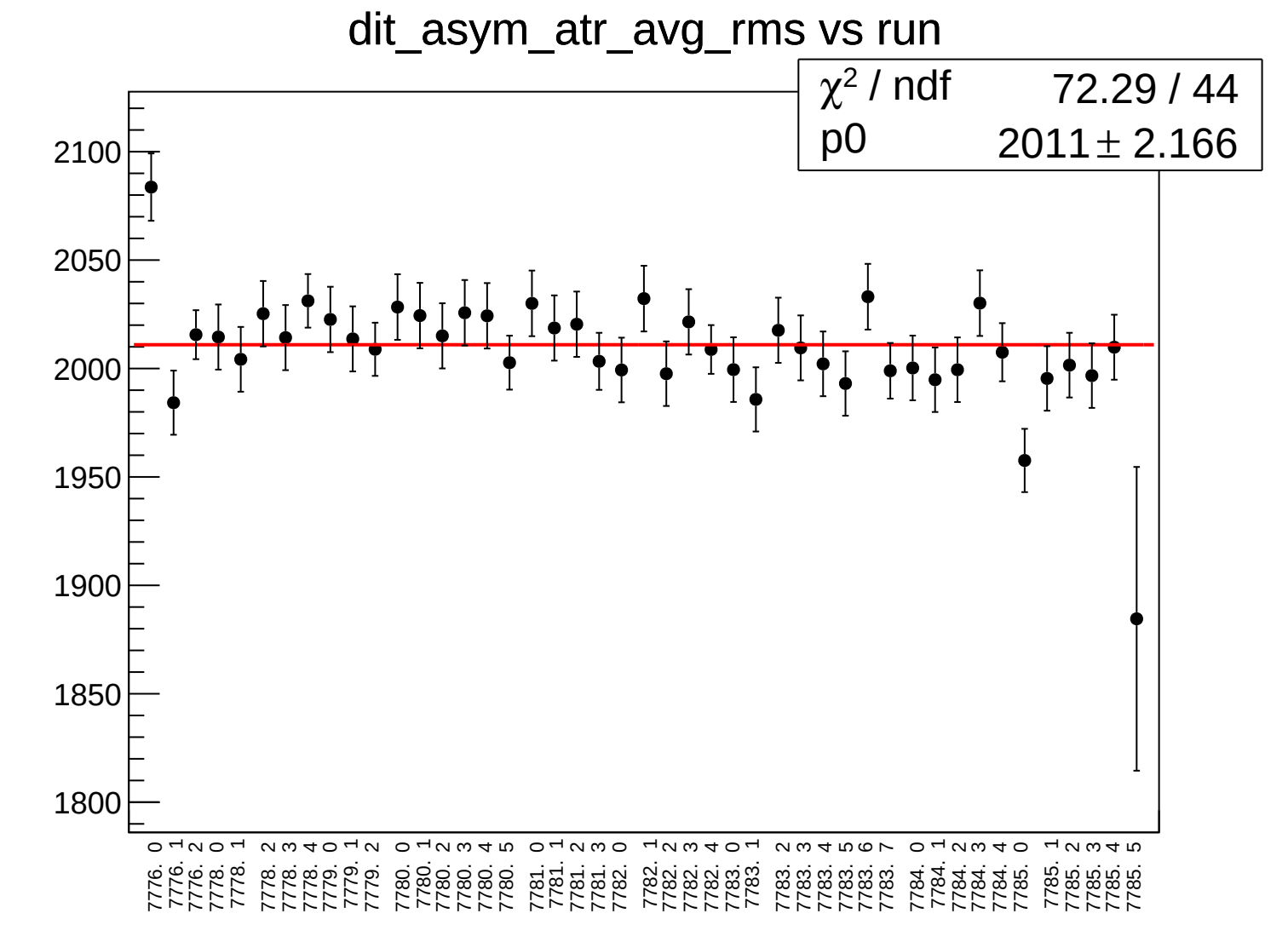

asym_atl_dd_mean vs run
×10^3
χ² / ndf 36.37 / 44
p0 −6144 ± 6646
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 247.8
Std Dev 219.9
3
2
1
0
−1

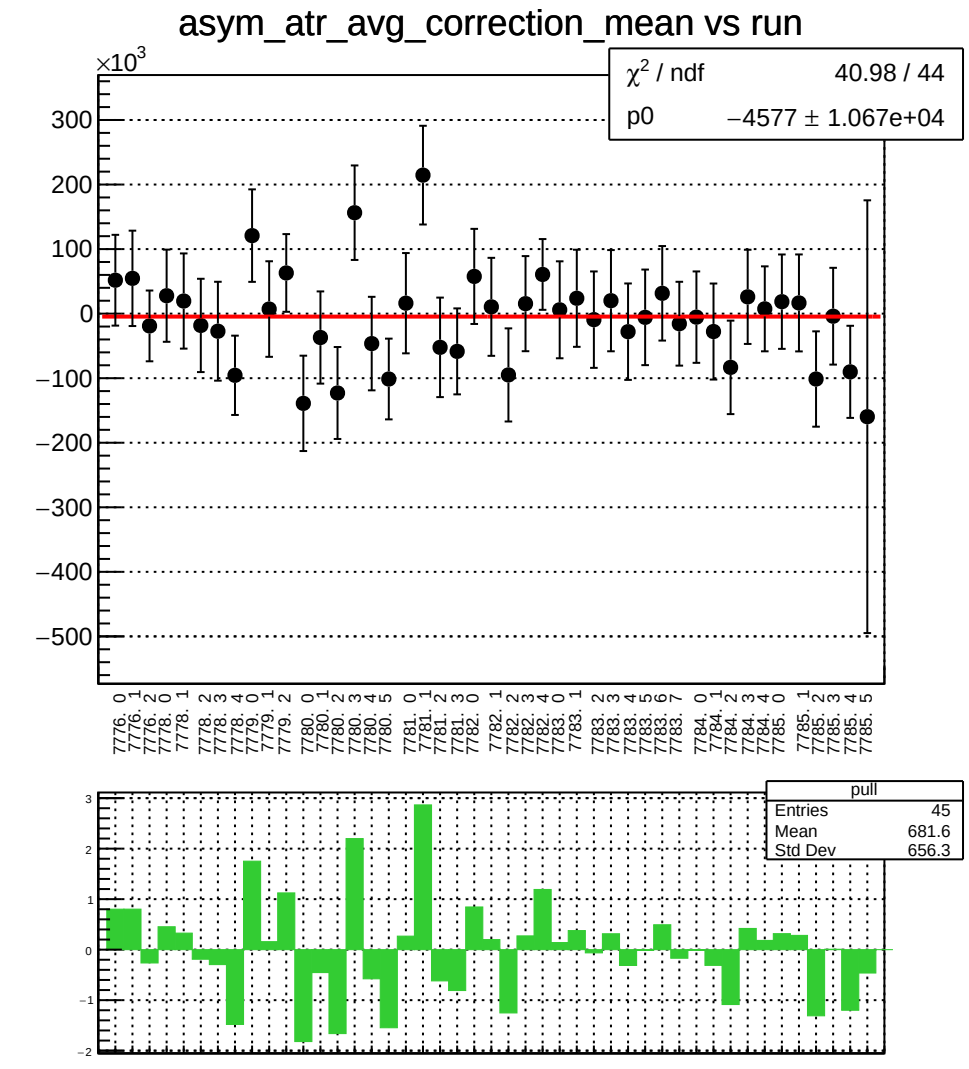

pull1D
Entries 45
Mean −0.009031
Std Dev 0.8989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

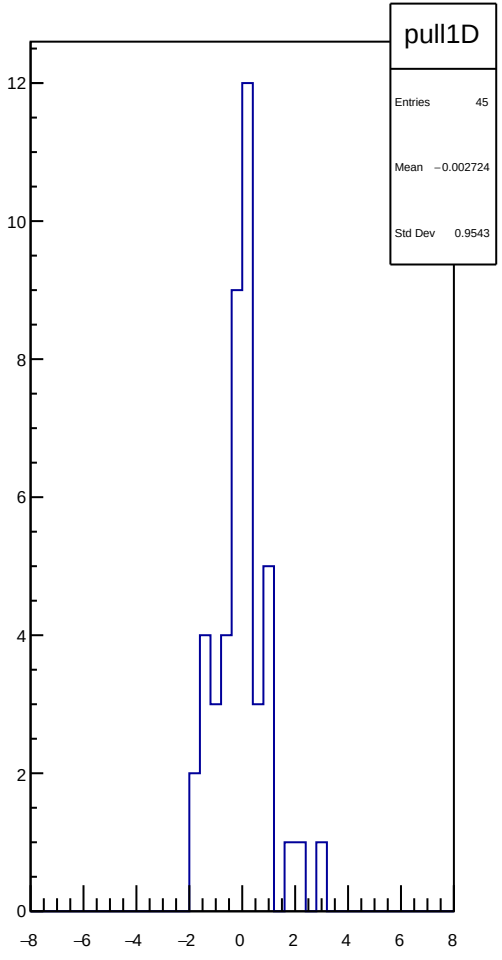

asym_atl_dd_rms vs run
χ² / ndf 2720 / 44
p0 4357 ± 4.699
7000
6500
6000
5500
5000
4500
4000
3500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

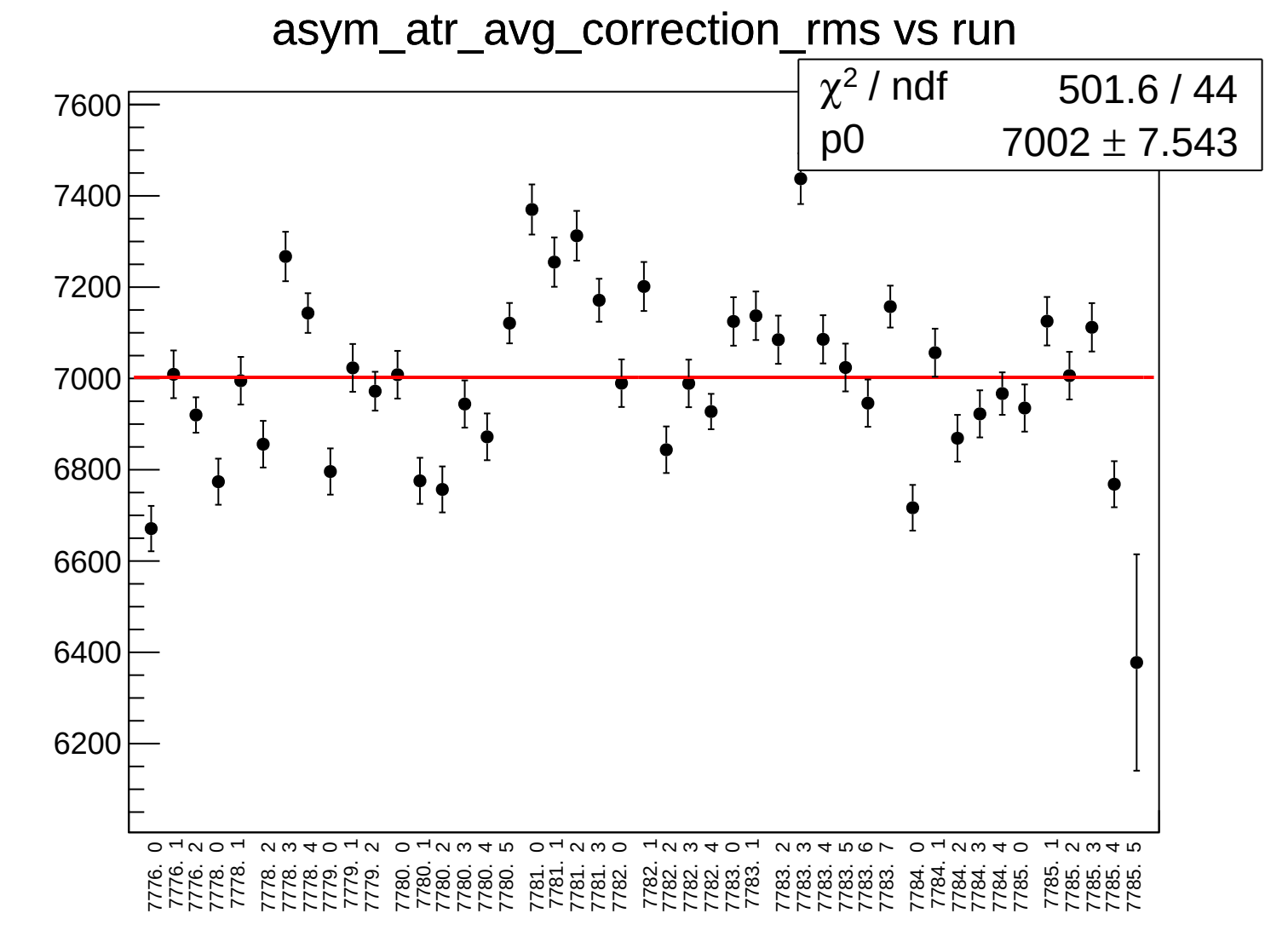

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 39.14 / 44
p0 5320 ± 3063
300
250
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 44.88
Std Dev 14.04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

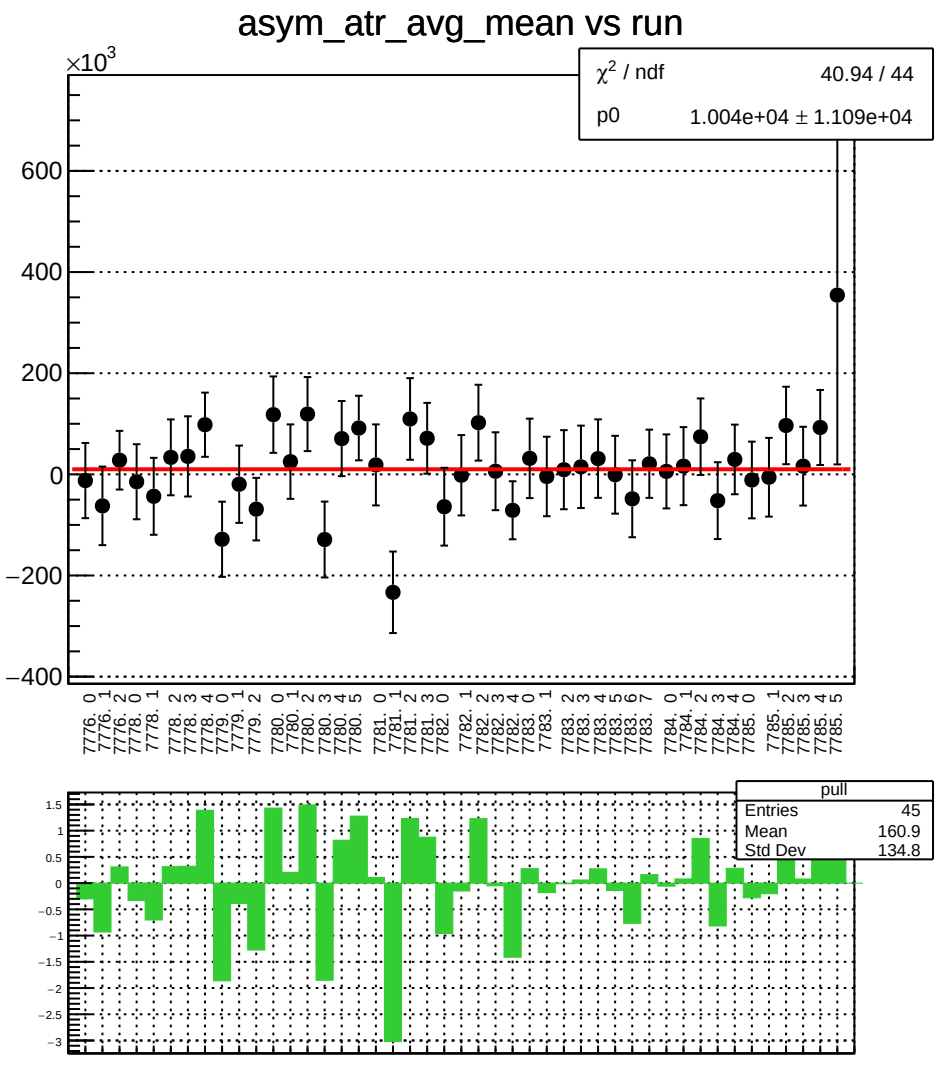

pull1D
Entries 45
Mean 0.04252
Std Dev 0.9316
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

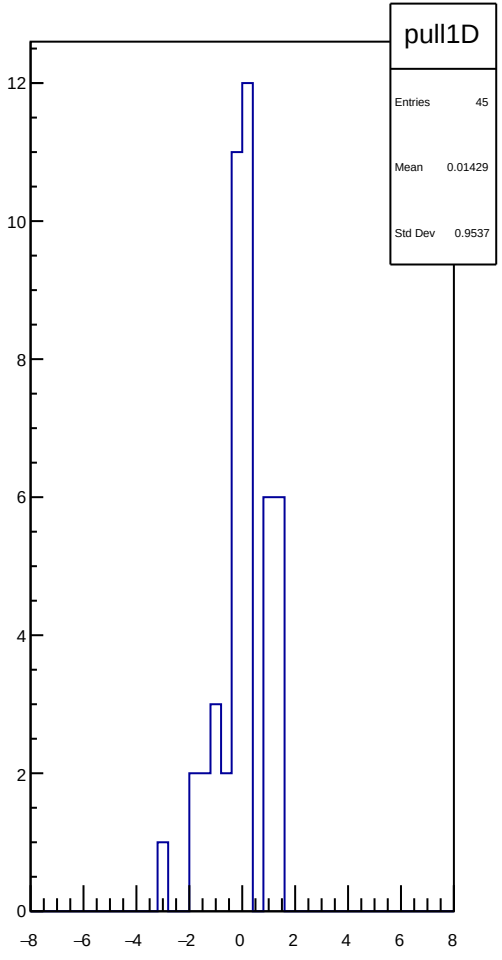

dit_asym_atr_avg_rms vs run
χ² / ndf 72.29 / 44
p0 2011 ± 2.166
2100
2050
2000
1950
1900
1850
1800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

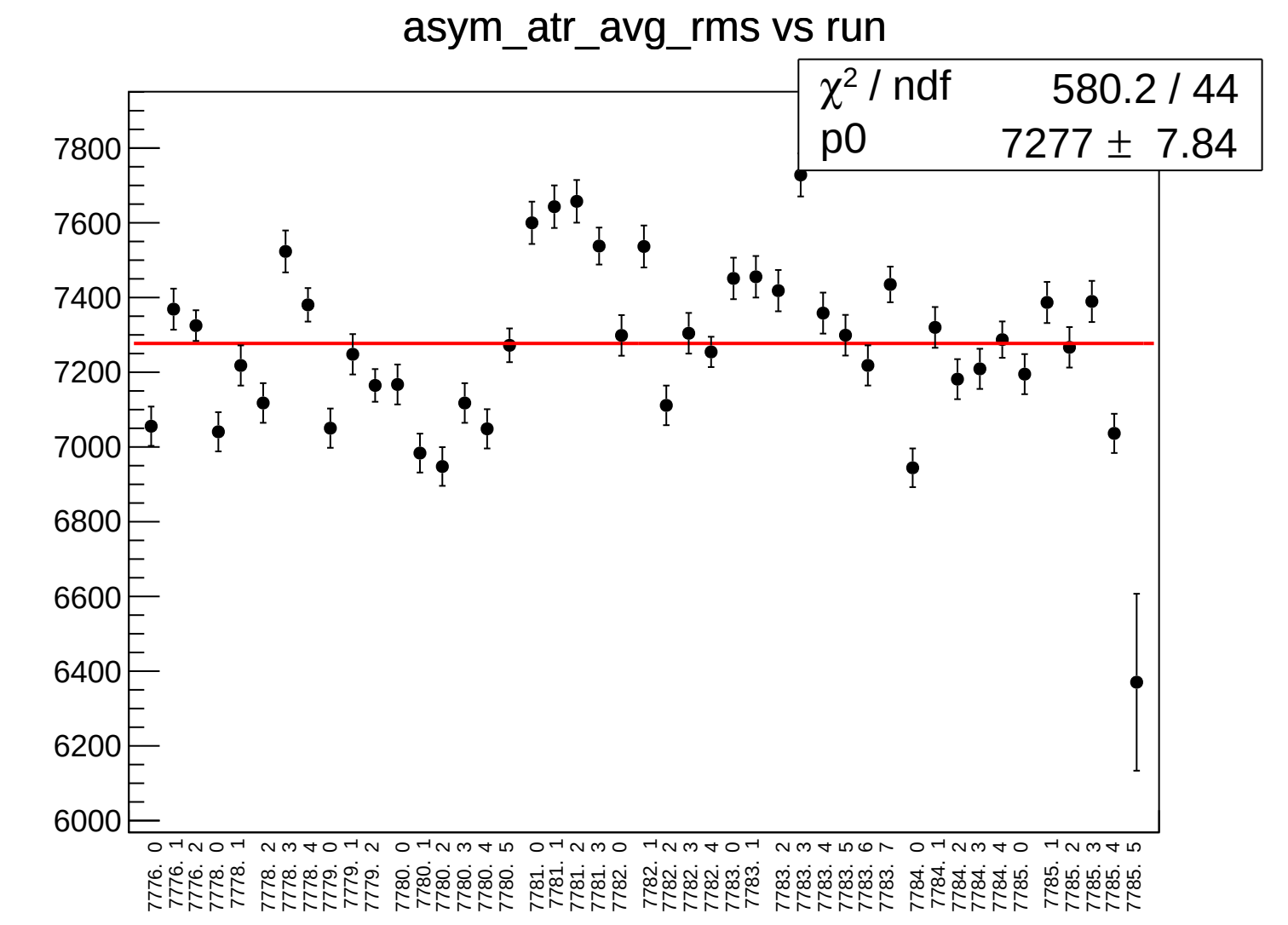

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.98 / 44
p0 −4577 ± 1.067e+04
300
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 681.6
Std Dev 656.3
3
2
1
0
−1
−2

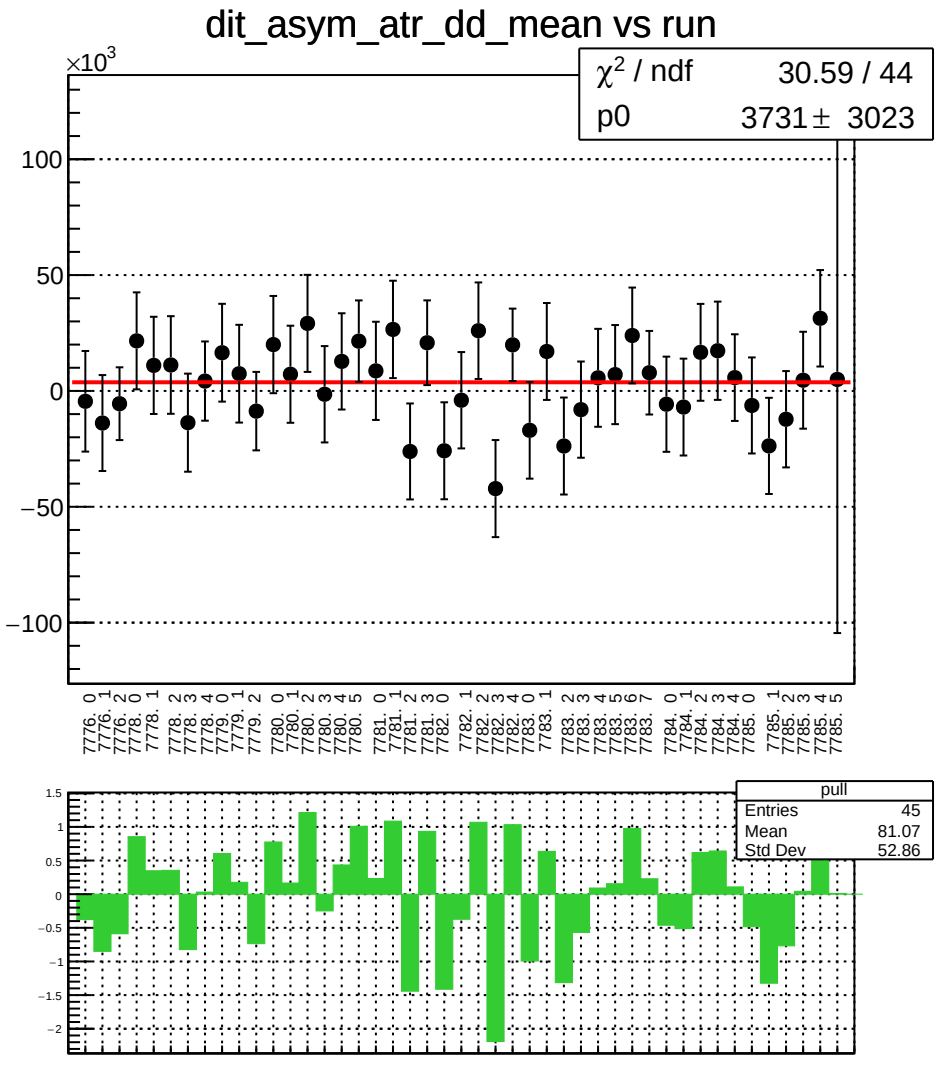

pull1D
Entries 45
Mean −0.002724
Std Dev 0.9543
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

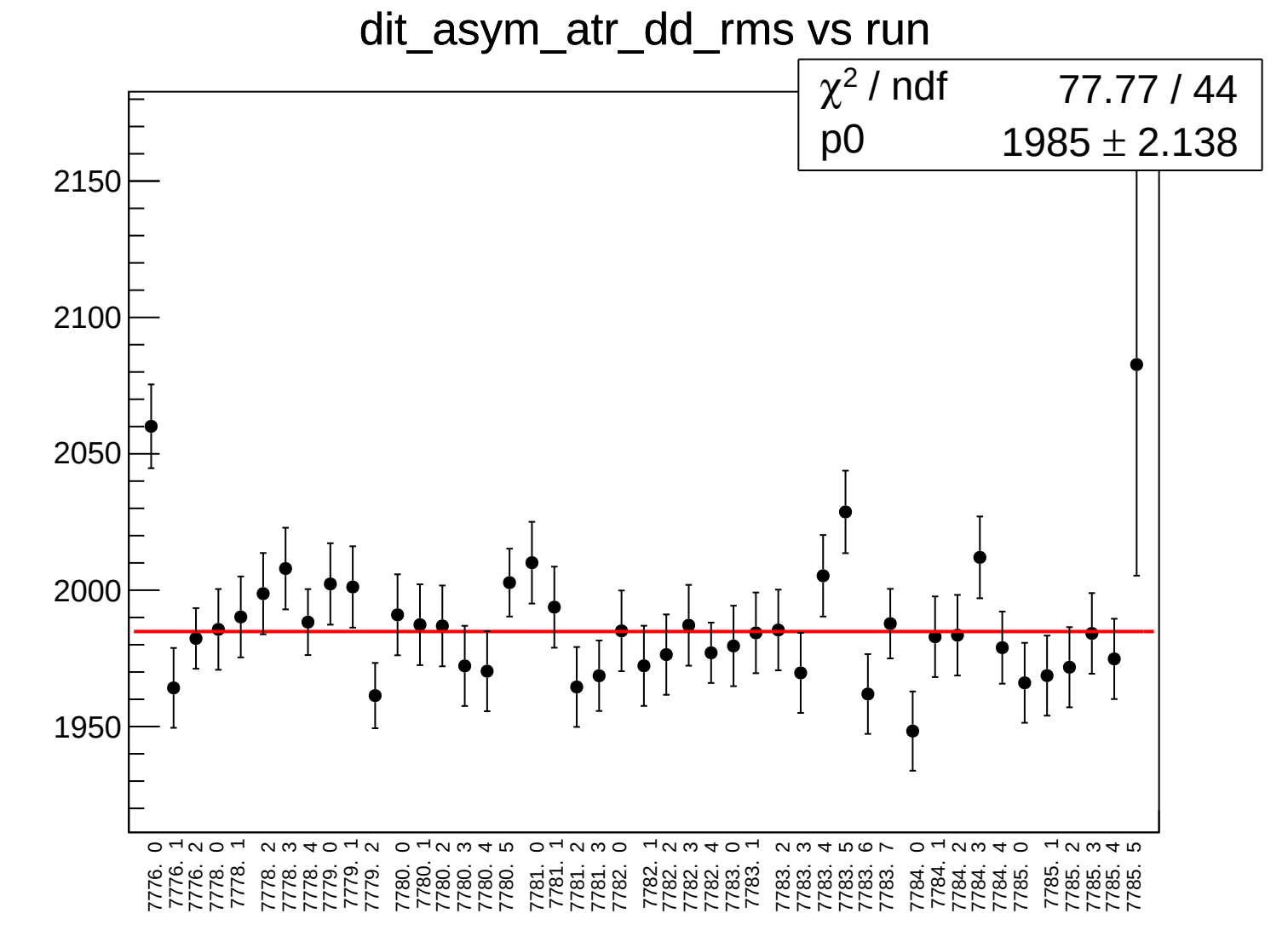

asym_atr_avg_correction_rms vs run
χ² / ndf 501.6 / 44
p0 7002 ± 7.543
7600
7400
7200
7000
6800
6600
6400
6200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

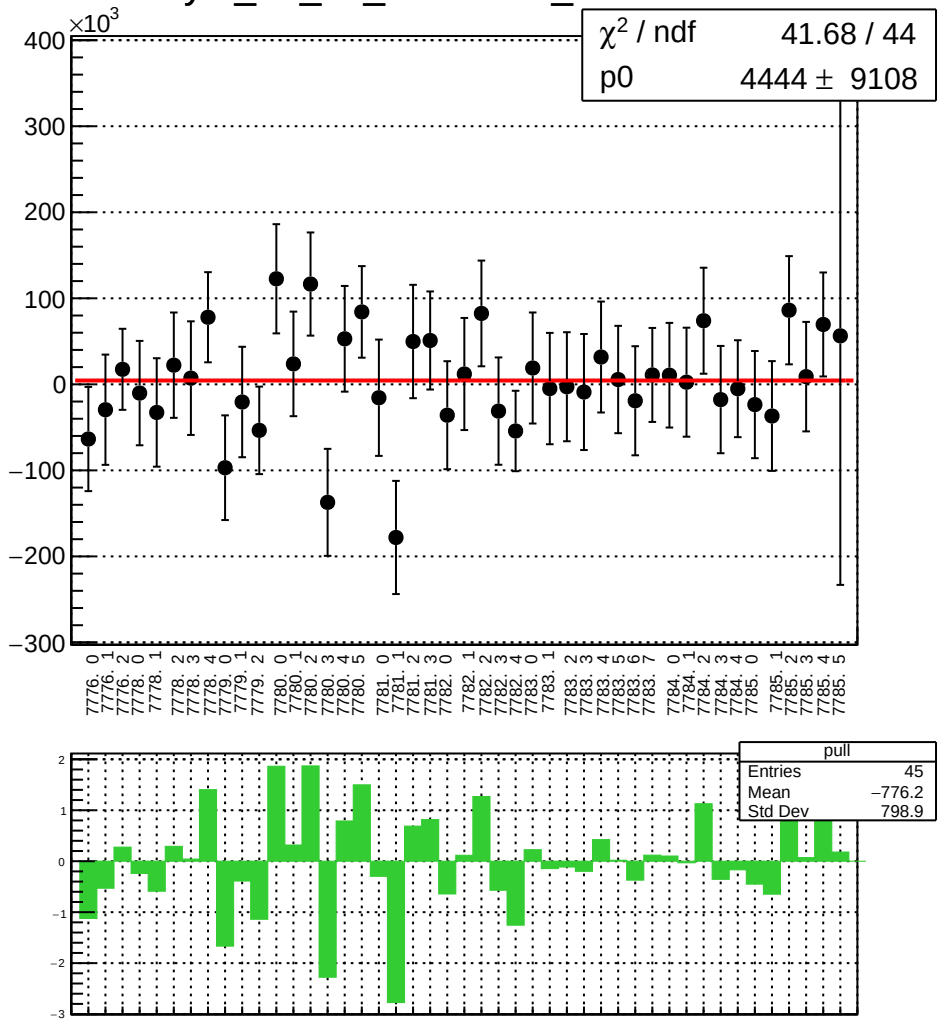

asym_atr_avg_mean vs run
×10^3
χ² / ndf 40.94 / 44
p0 1.004e+04 ± 1.109e+04
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 160.9
Std Dev 134.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

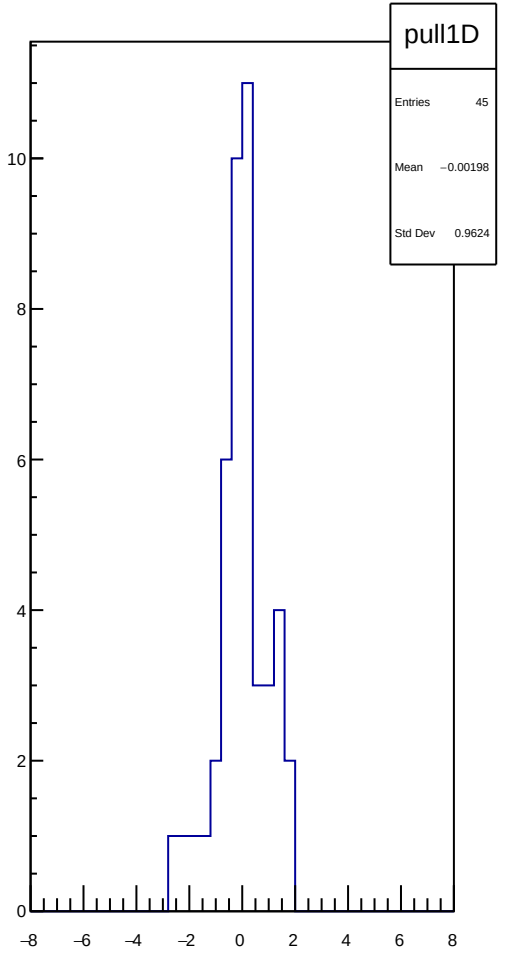

pull1D
Entries 45
Mean 0.01429
Std Dev 0.9537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

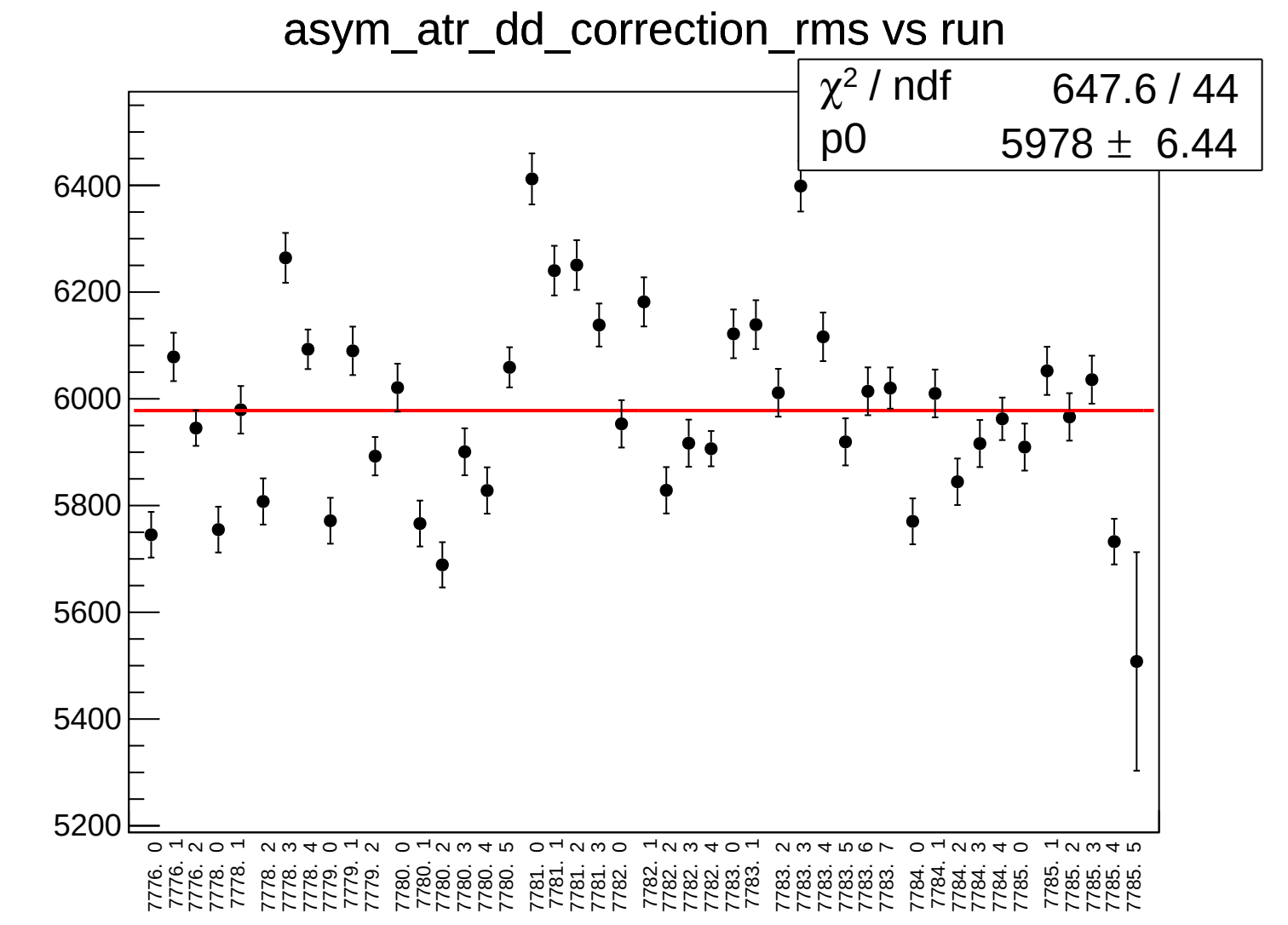

asym_atr_avg_rms vs run
χ² / ndf 580.2 / 44
p0 7277 ± 7.84
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

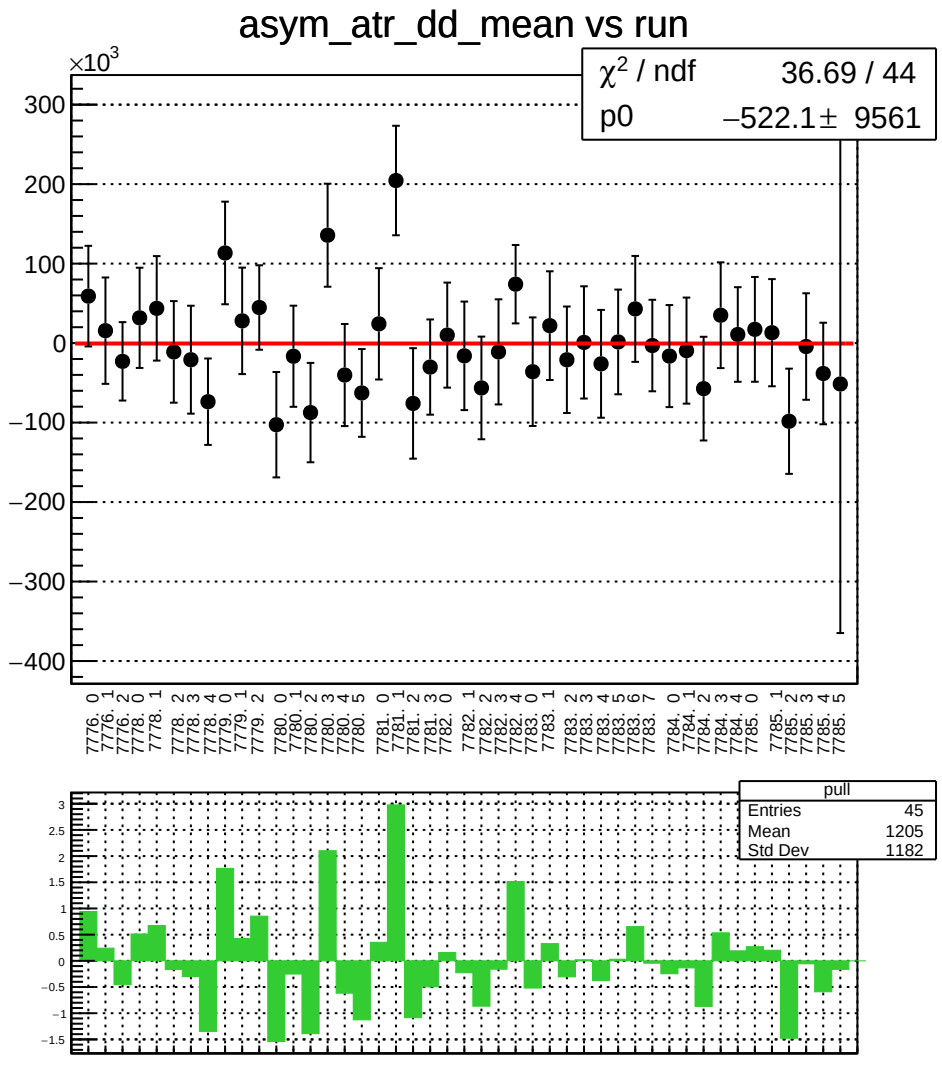

dit_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 30.59 / 44
p0 3731 ± 3023
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 81.07
Std Dev 52.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.006802
Std Dev 0.8245
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

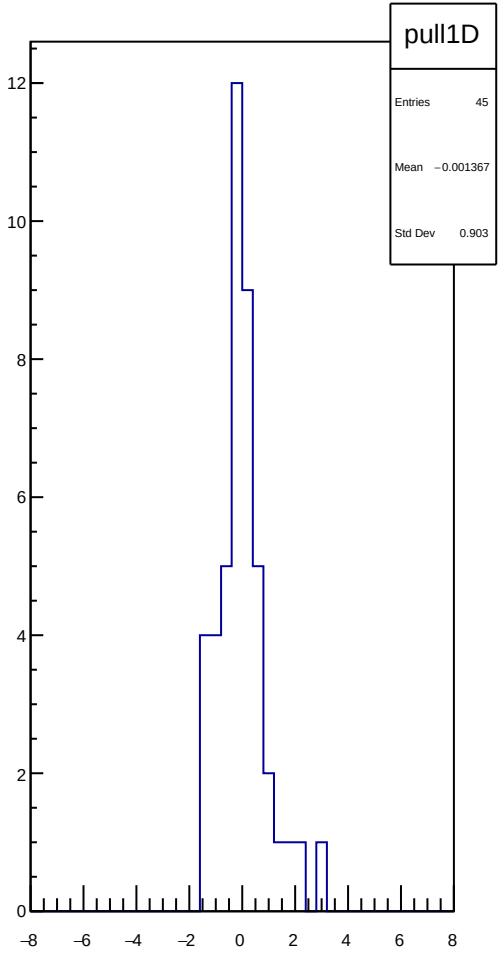

dit_asym_atr_dd_rms vs run
χ^2 / ndf 77.77 / 44
p0 1985 ± 2.138
2150
2100
2050
2000
1950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

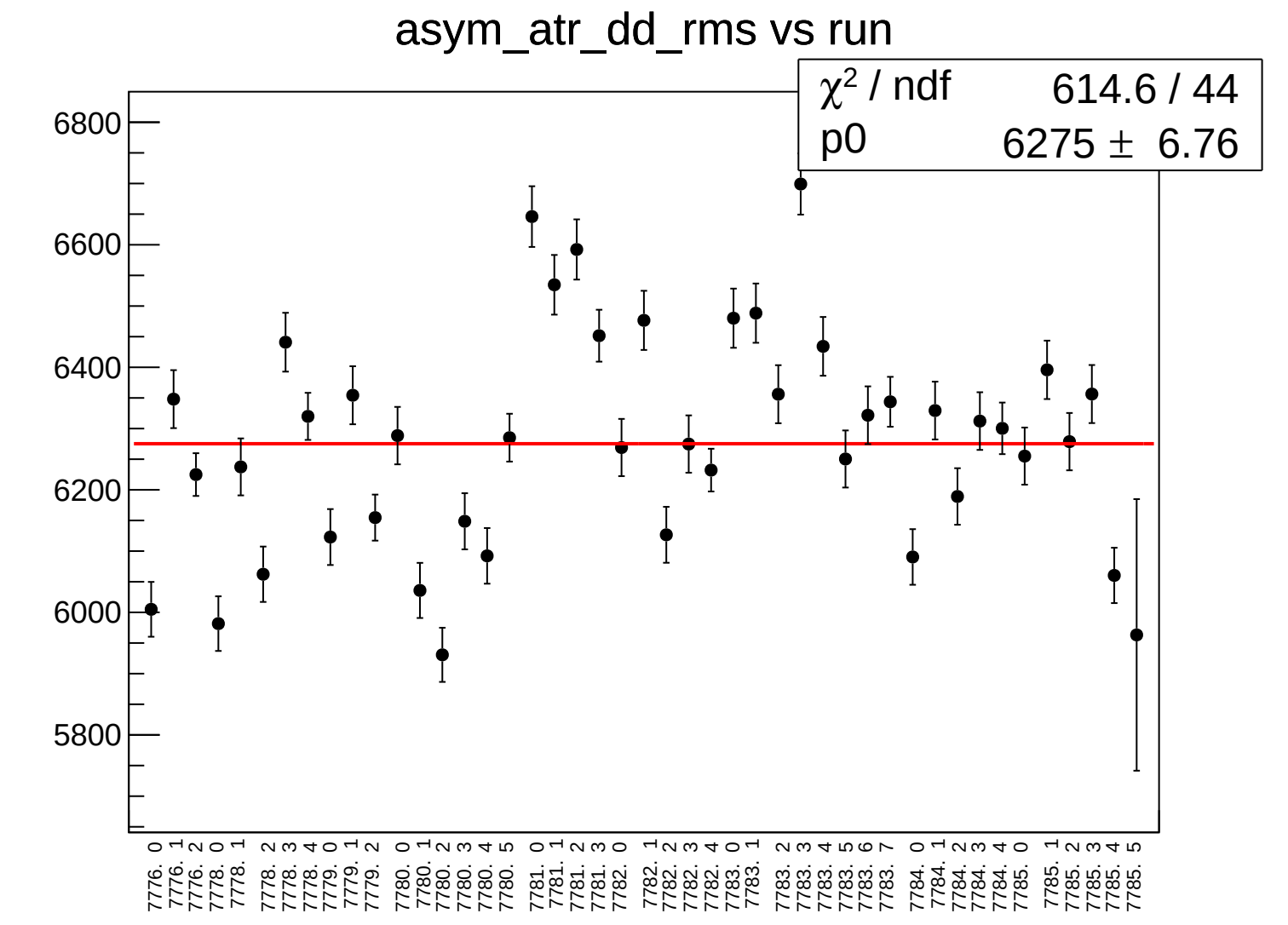

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 41.68 / 44
p0 4444 ± 9108
pull
Entries 45
Mean −776.2
Std Dev 798.9

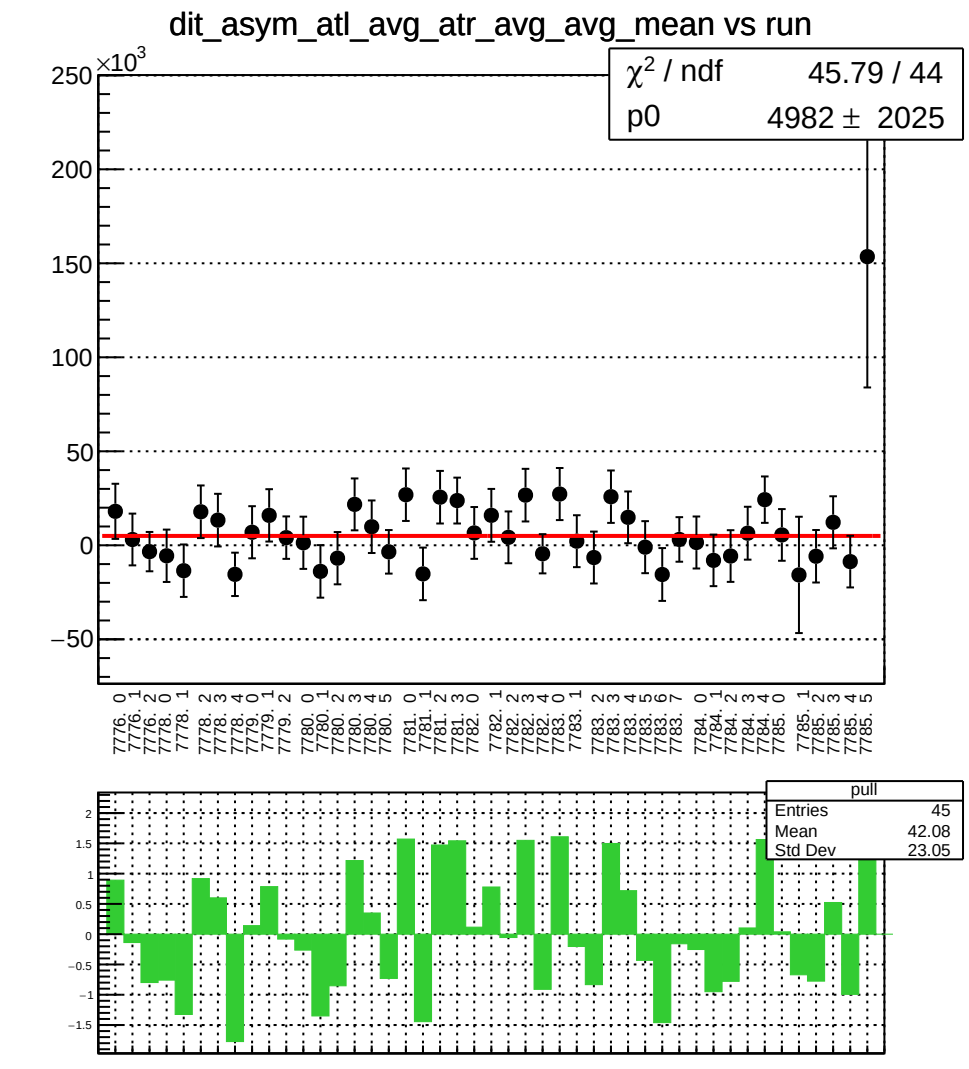

pull1D
Entries 45
Mean −0.00198
Std Dev 0.9624

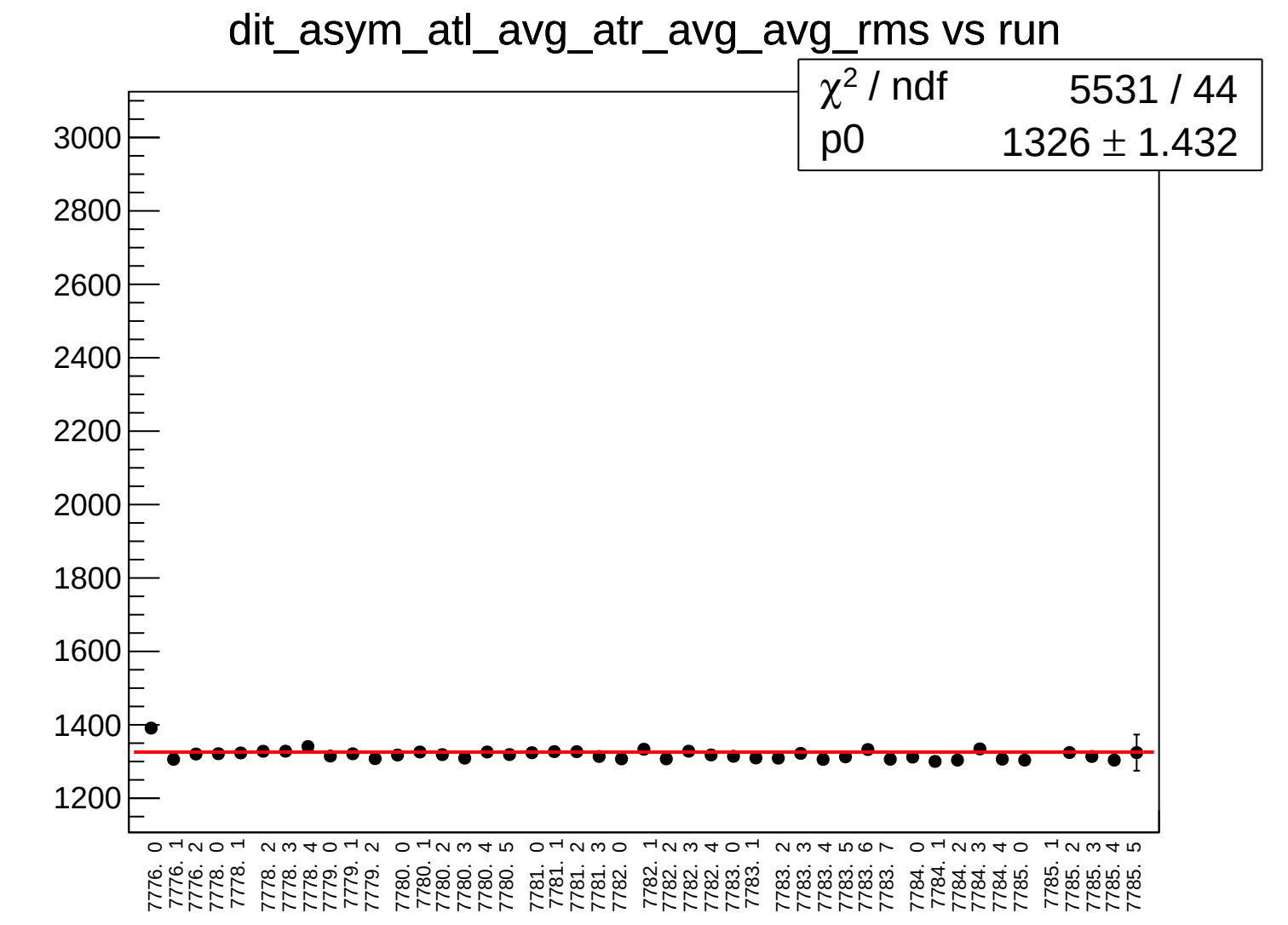

asym_atr_dd_correction_rms vs run
χ² / ndf 647.6 / 44
p0 5978 ± 6.44
6400
6200
6000
5800
5600
5400
5200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

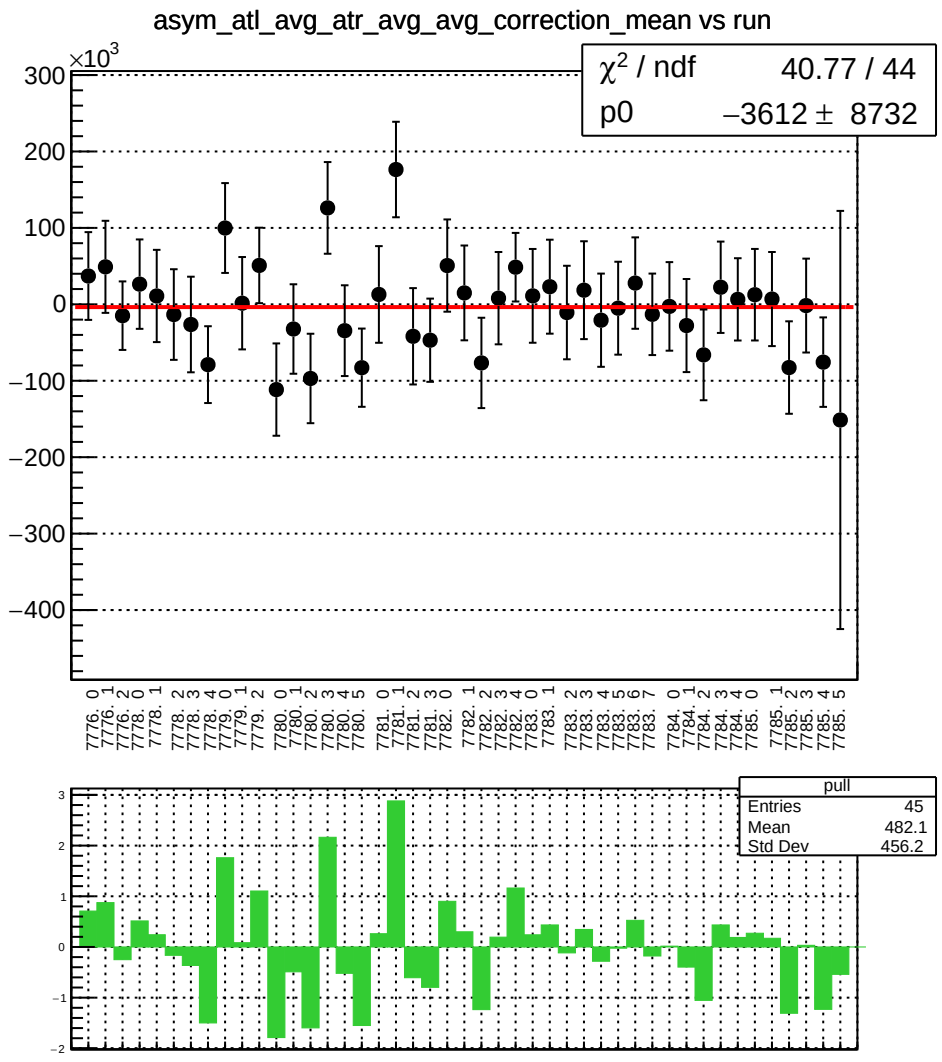

asym_atr_dd_mean vs run
×10^3
χ² / ndf 36.69 / 44
p0 −522.1± 9561
300
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1205
Std Dev 1182
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

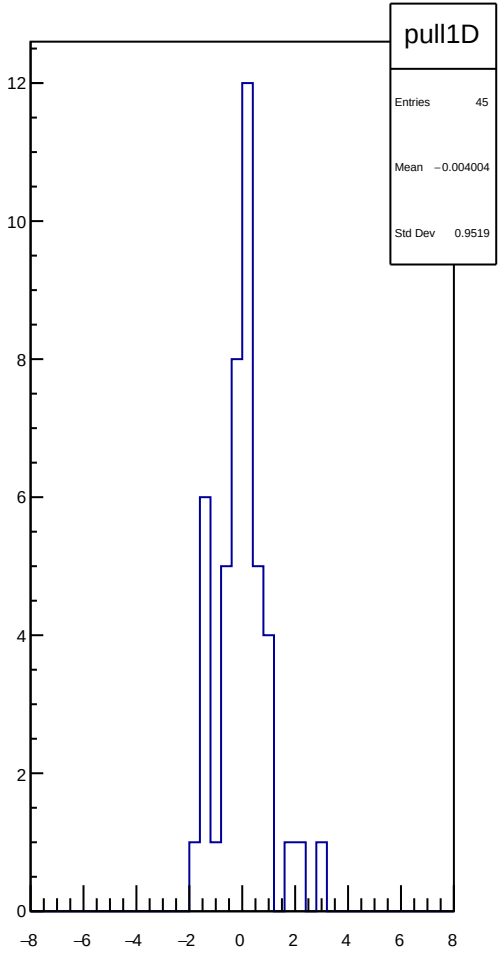

pull1D
Entries 45
Mean −0.001367
Std Dev 0.903
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

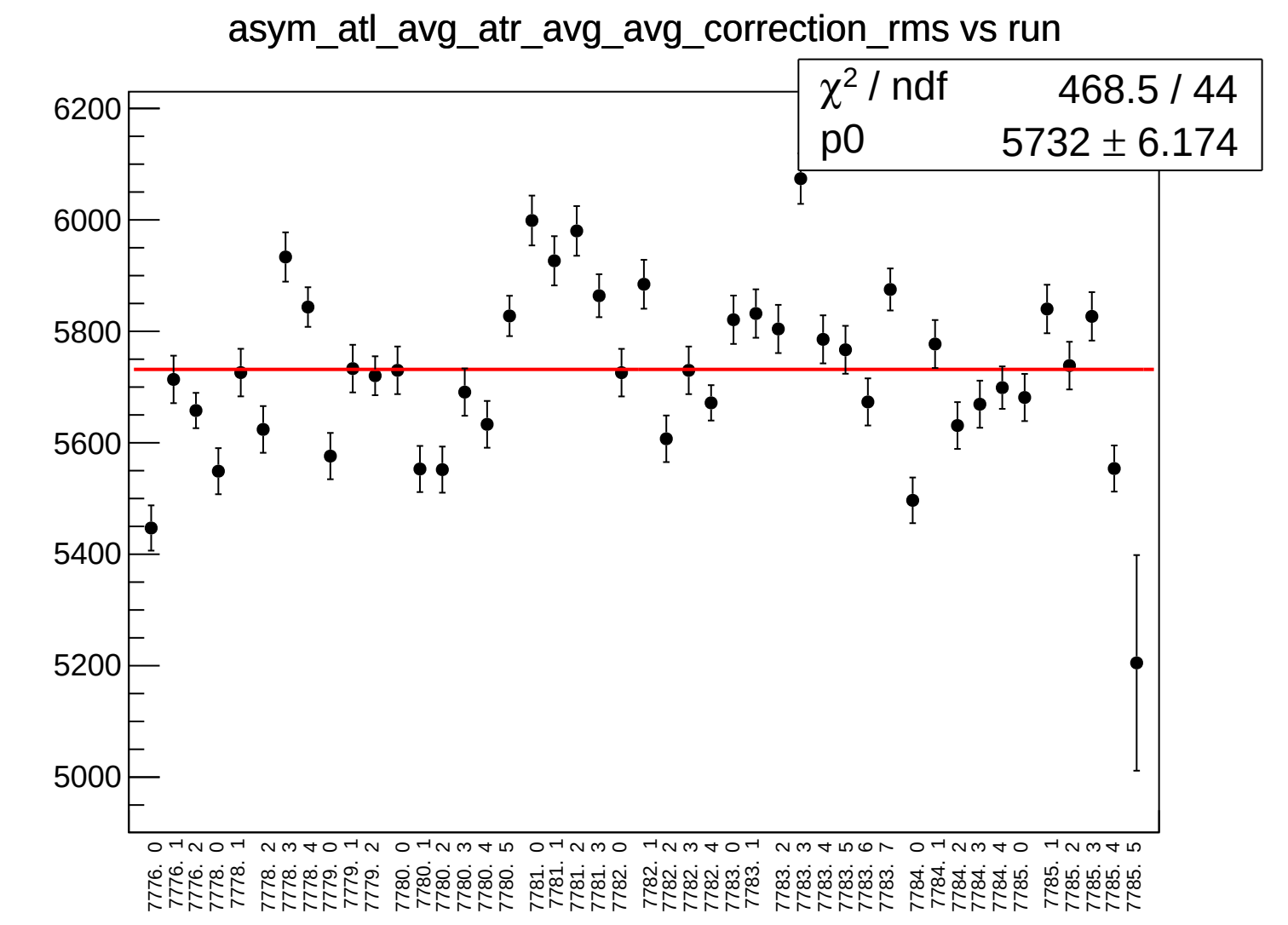

asym_atr_dd_rms vs run
χ² / ndf 614.6 / 44
p0 6275 ± 6.76
6800
6600
6400
6200
6000
5800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

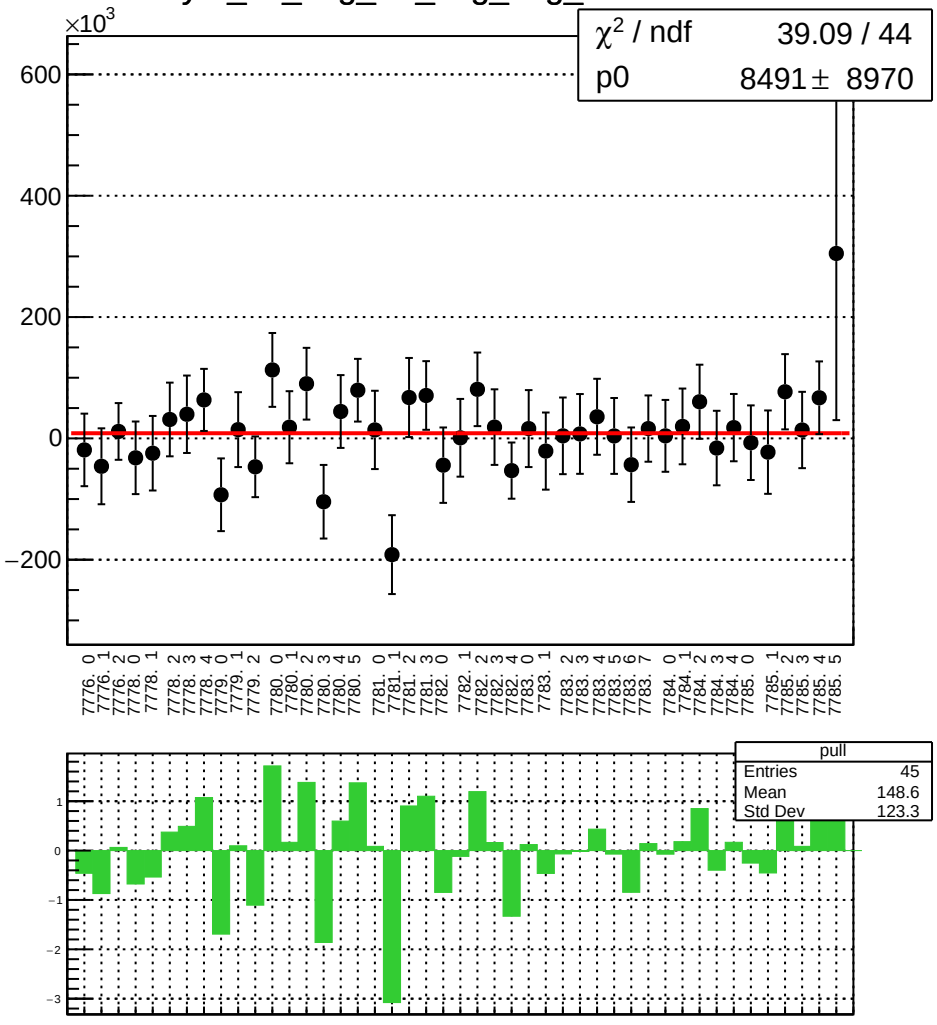

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 45.79 / 44
p0 4982 ± 2025
×10³
250
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 42.08
Std Dev 23.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.04731
Std Dev 1.008
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

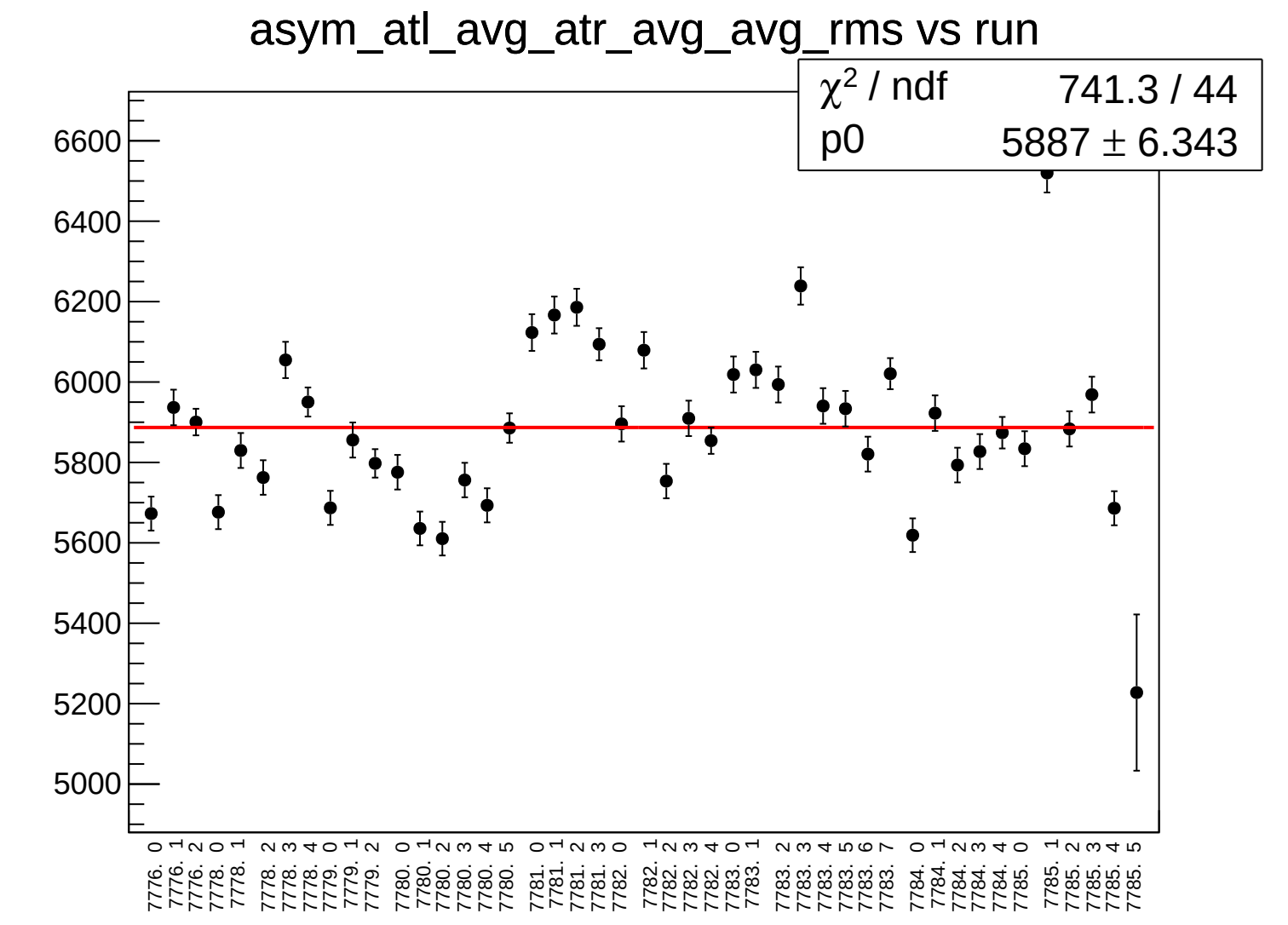

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5531 / 44
p0 1326 ± 1.432
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

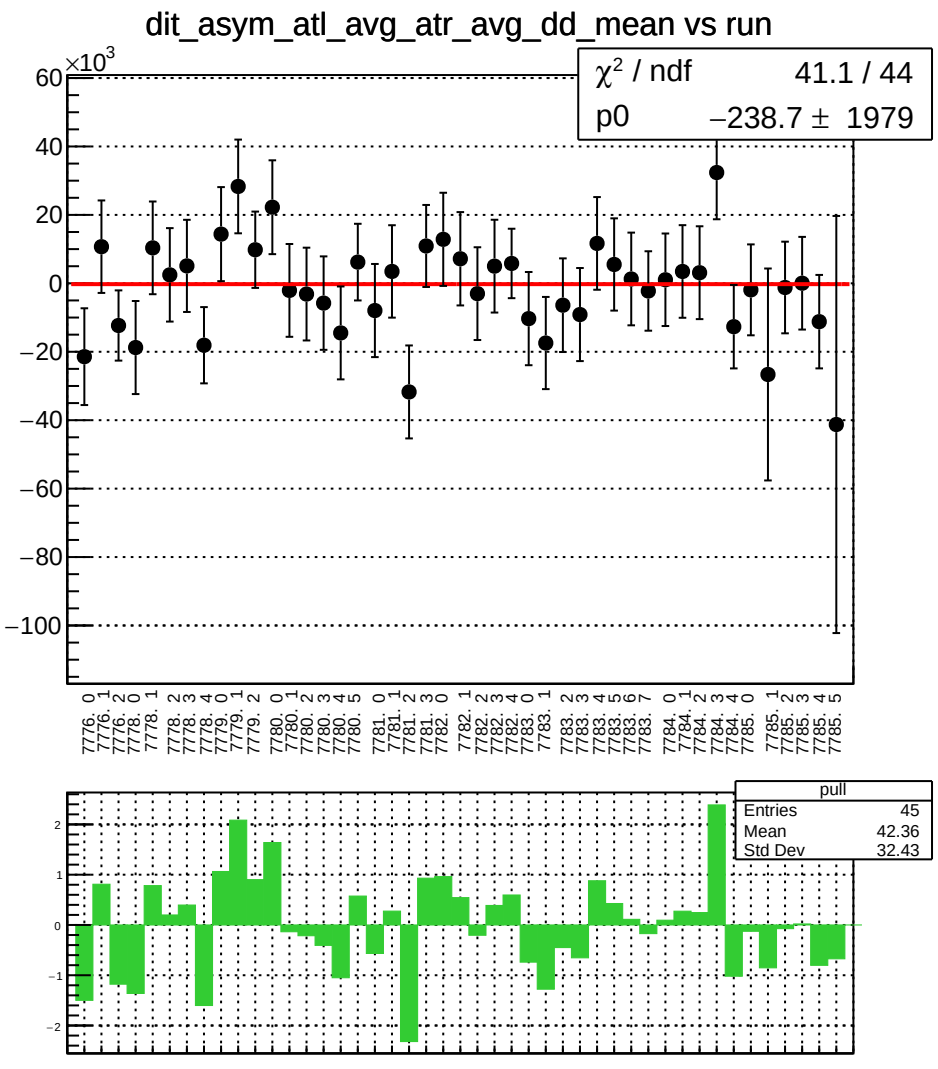

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 40.77 / 44
p0 −3612 ± 8732
pull
Entries 45
Mean 482.1
Std Dev 456.2

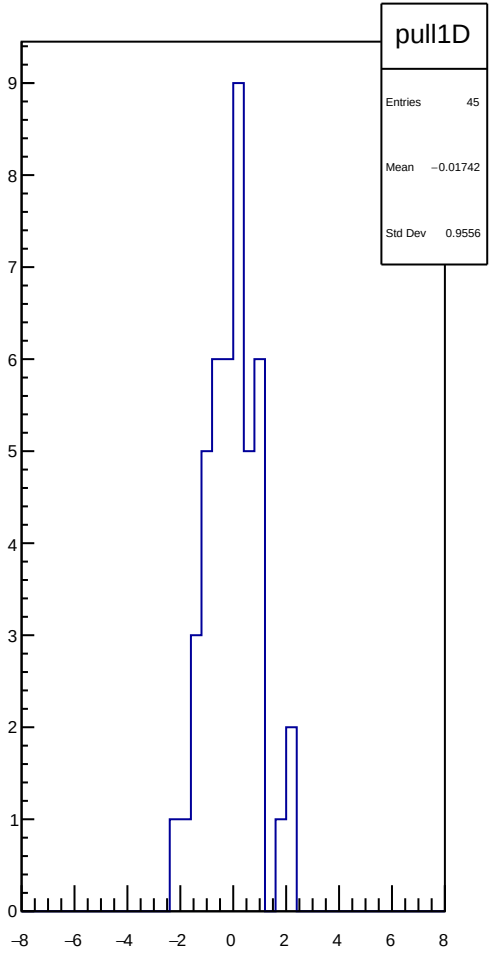

pull1D
Entries 45
Mean −0.004004
Std Dev 0.9519

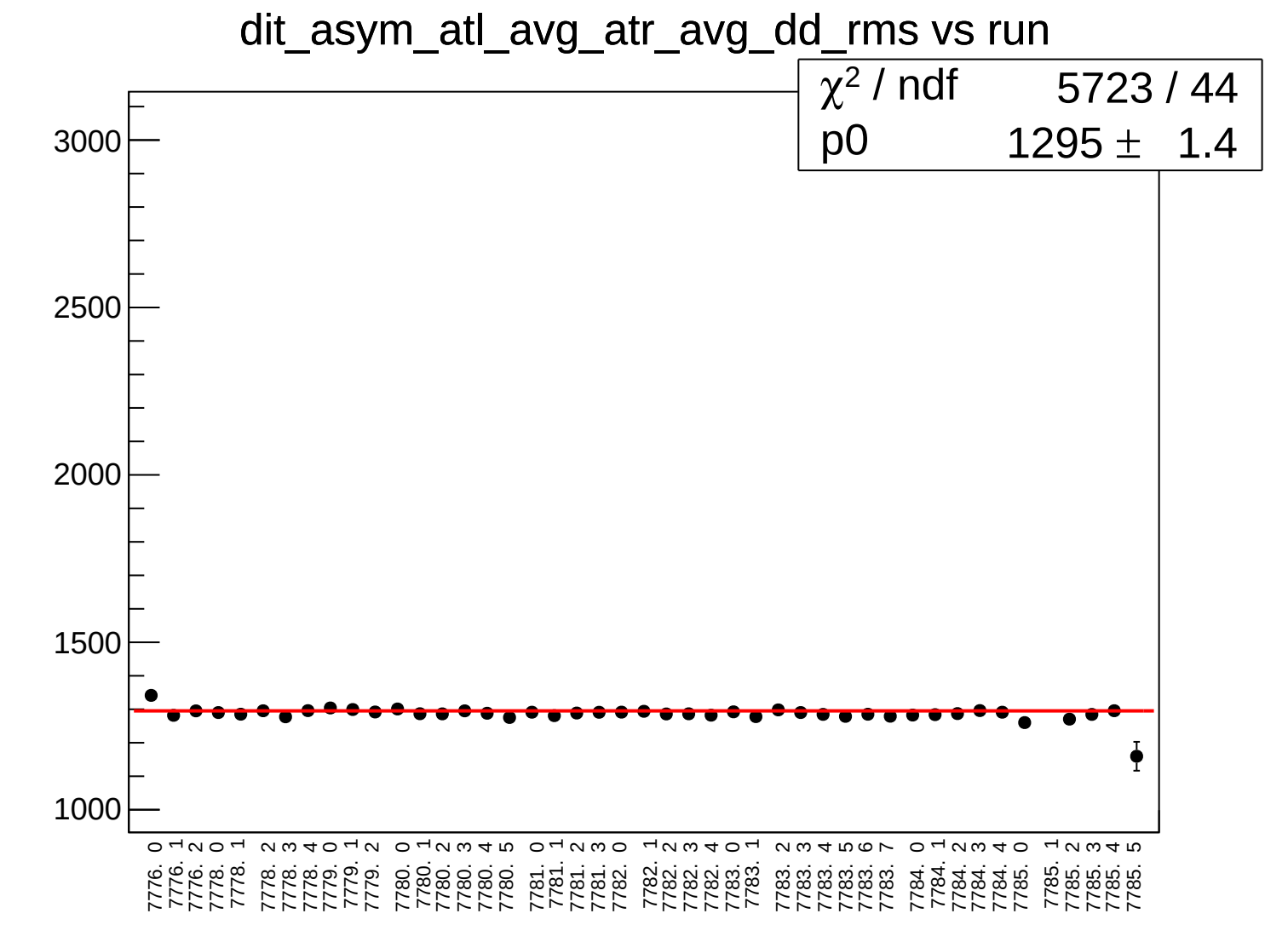

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 468.5 / 44
p0 5732 ± 6.174
6200
6000
5800
5600
5400
5200
5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

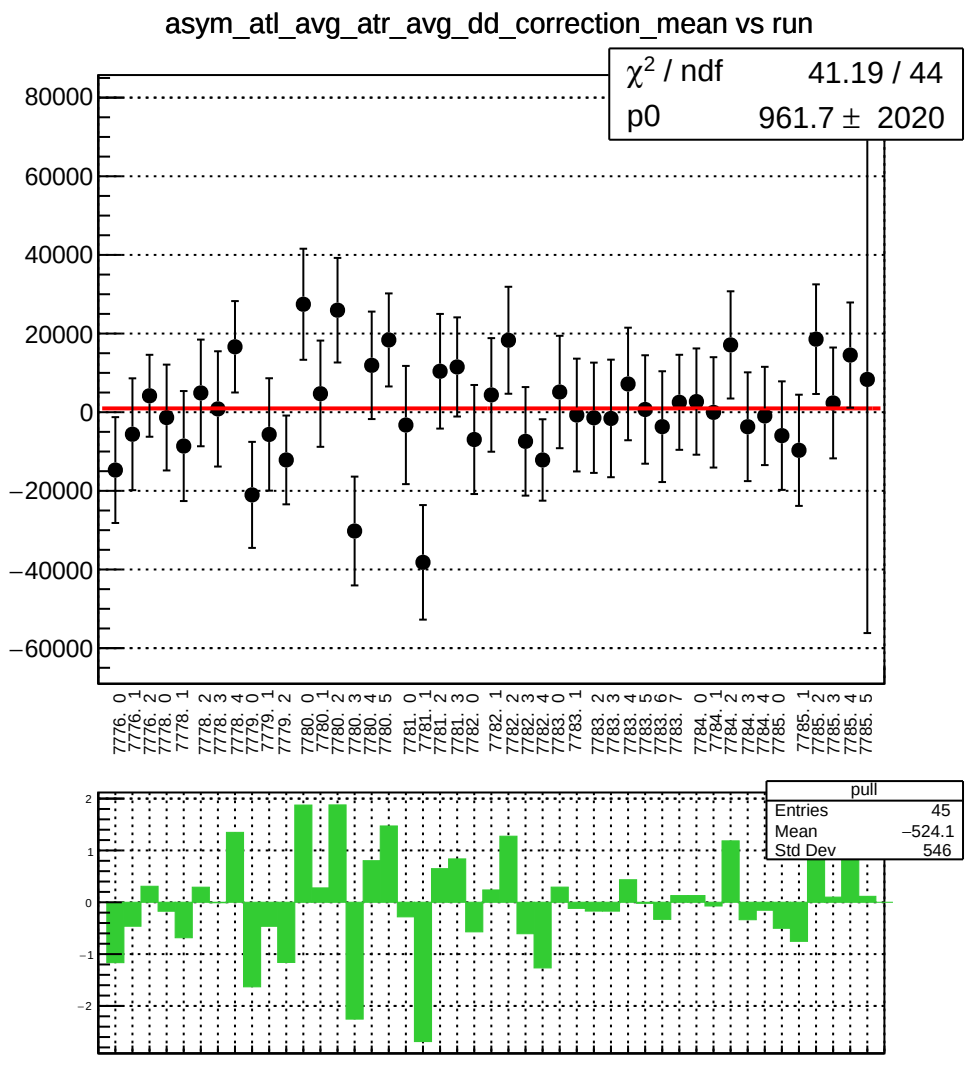

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 39.09 / 44
p0 8491 ± 8970
600
400
200
0
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 148.6
Std Dev 123.3
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.0155
Std Dev 0.9319
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

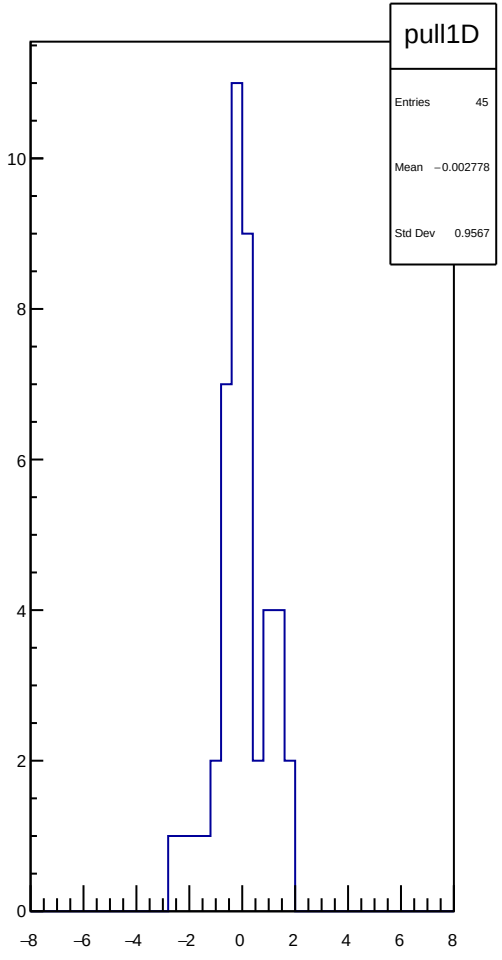

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 741.3 / 44
p0 5887 ± 6.343
6600
6400
6200
6000
5800
5600
5400
5200
5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

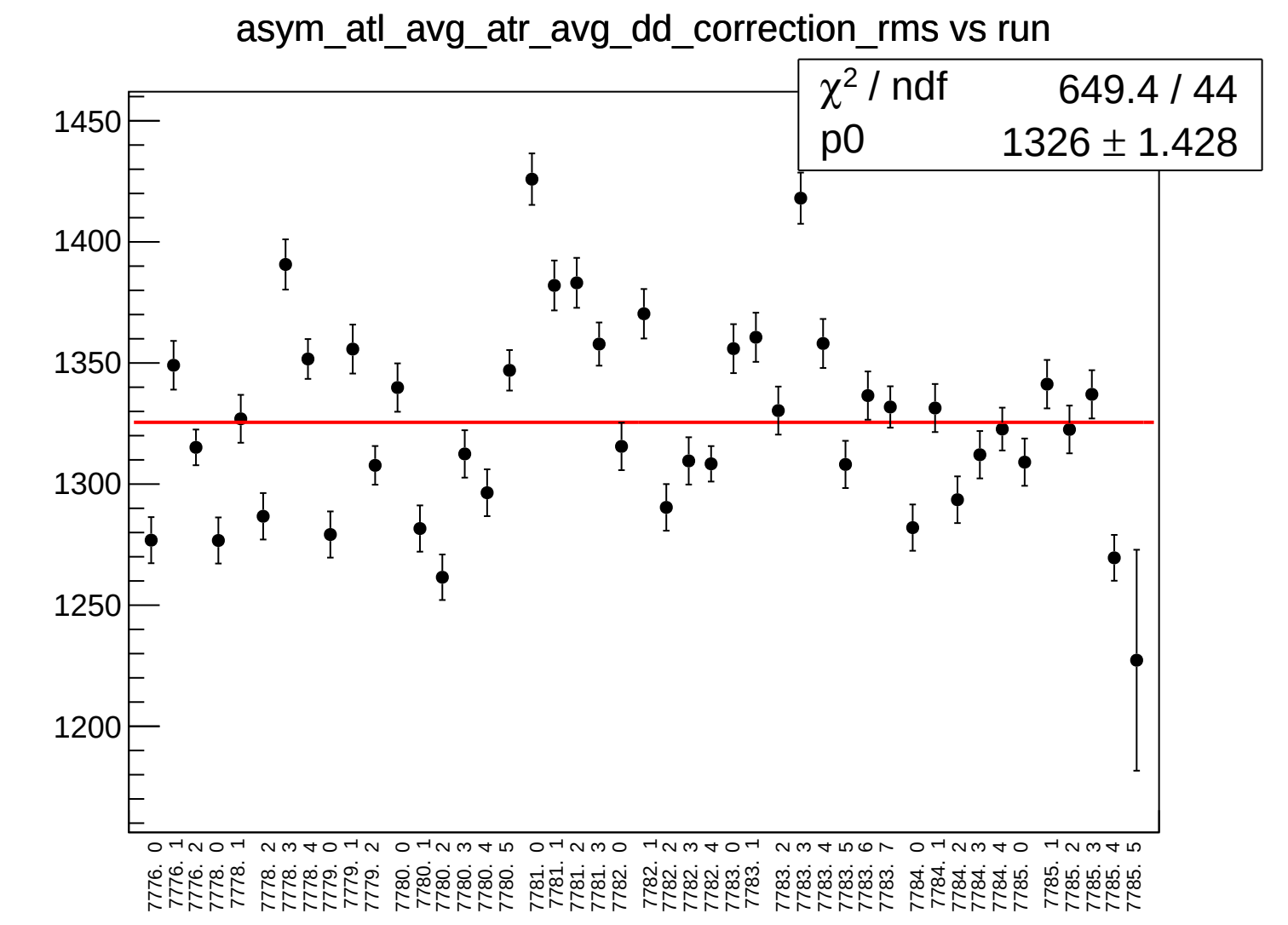

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 41.1 / 44
p0 −238.7 ± 1979
×10³
60
40
20
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 42.36
Std Dev 32.43
2
1
0
−1
−2

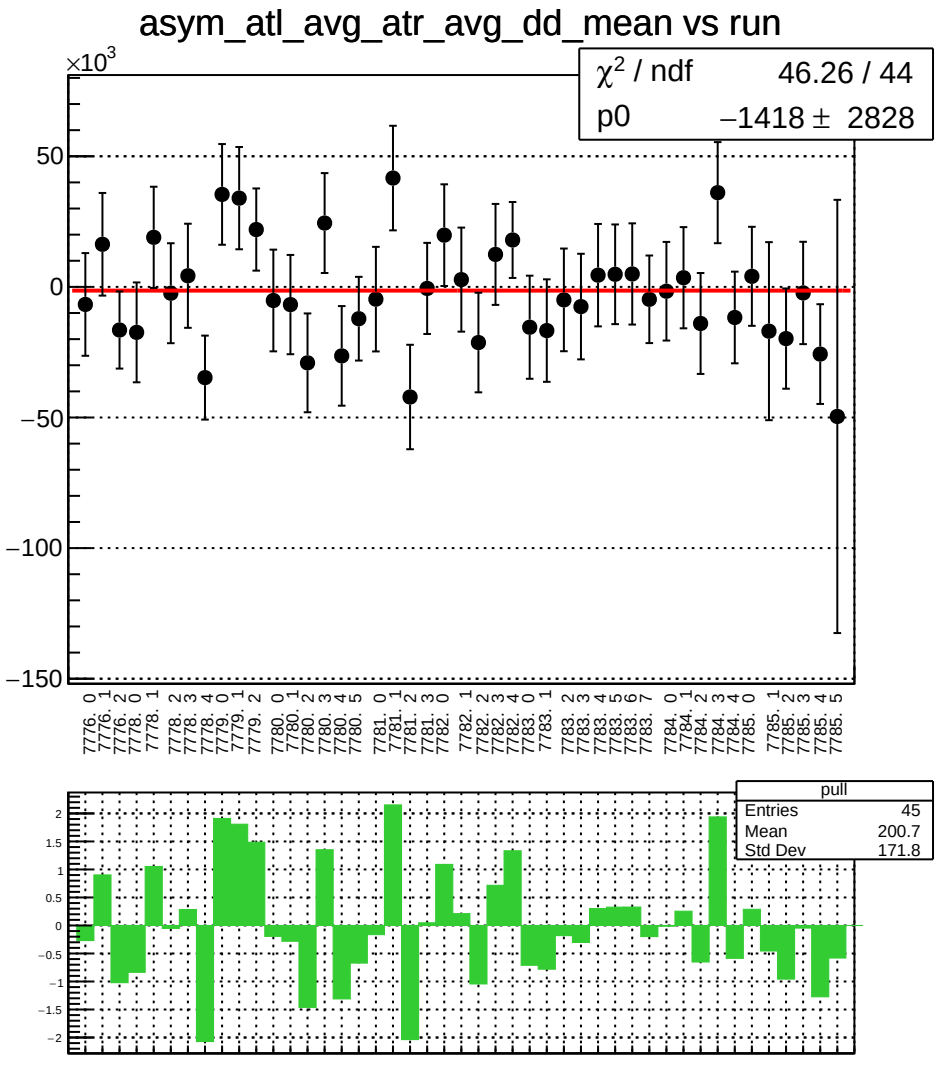

pull1D
Entries 45
Mean −0.01742
Std Dev 0.9556
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

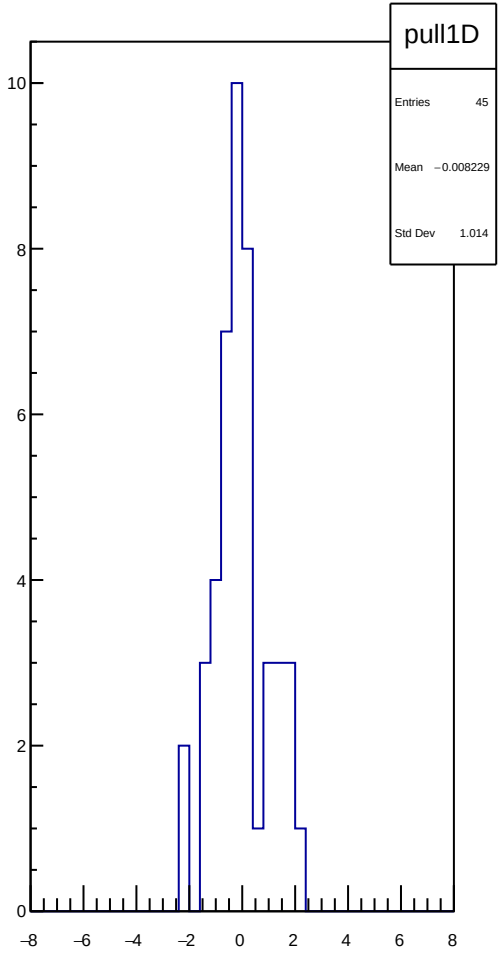

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5723 / 44
p0 1295 ± 1.4
3000
2500
2000
1500
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

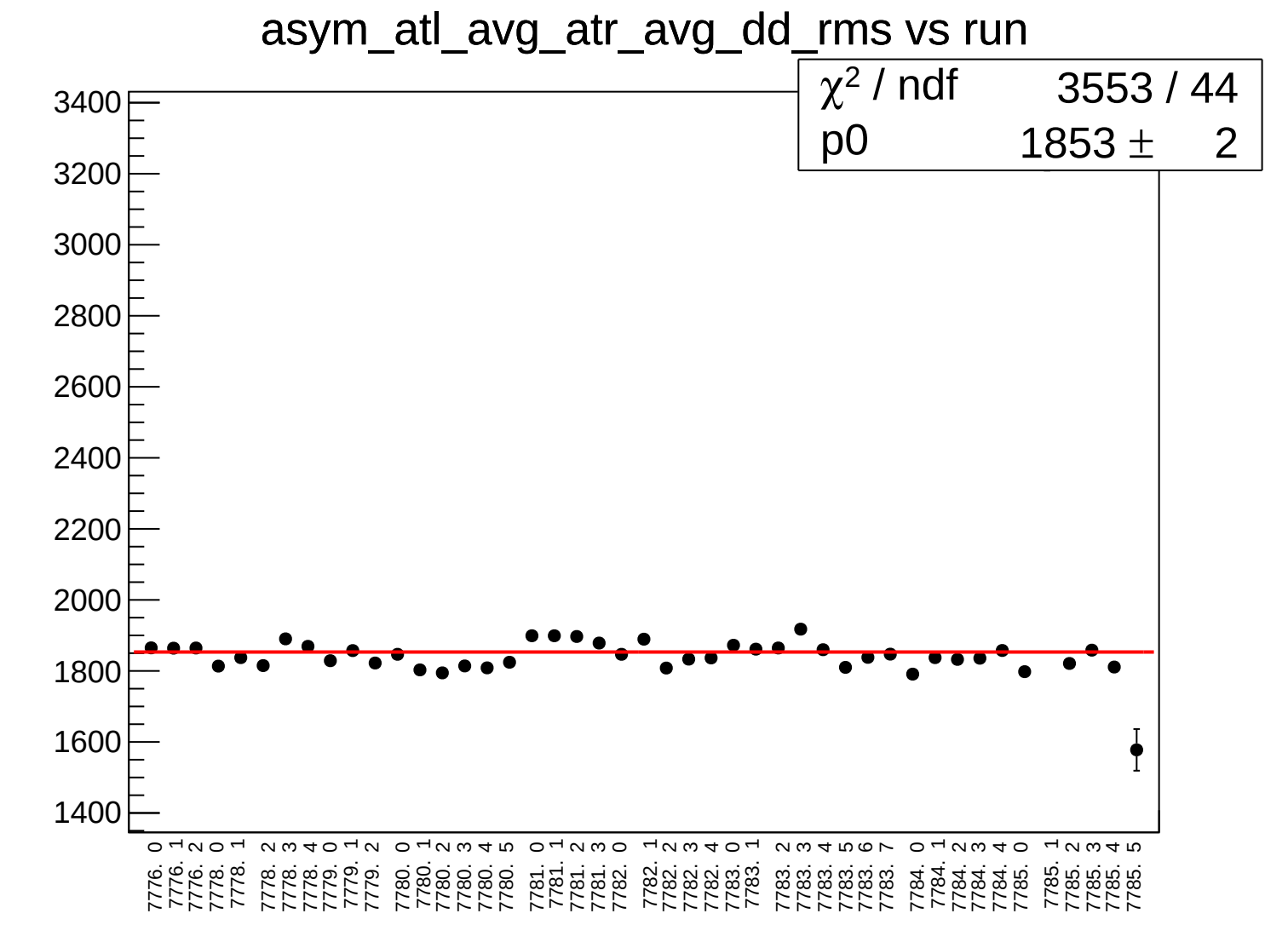

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 41.19 / 44
p0 961.7 ± 2020
80000
60000
40000
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −524.1
Std Dev 546
2
1
0
−1
−2

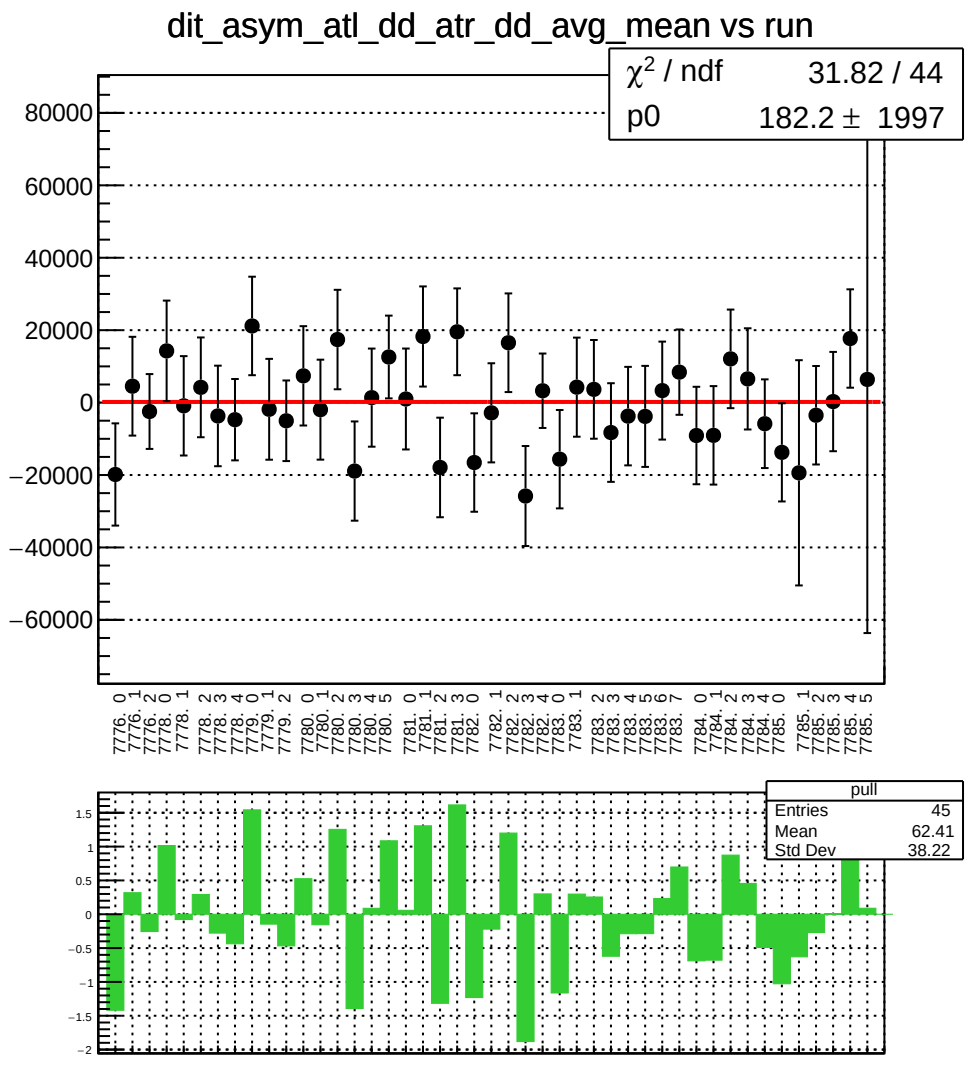

pull1D
Entries 45
Mean −0.002778
Std Dev 0.9567
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

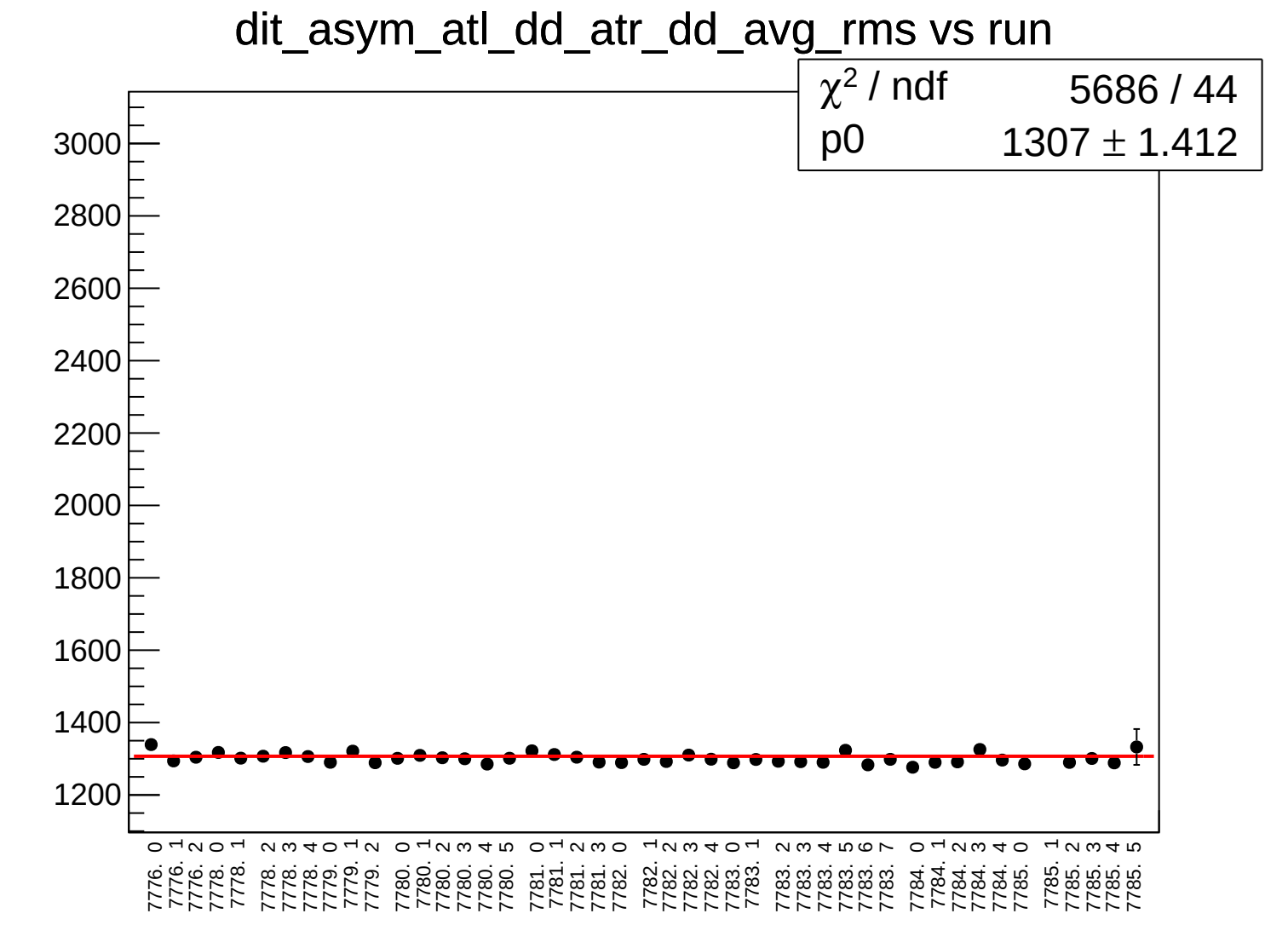

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 649.4 / 44
p0 1326 ± 1.428
1450
1400
1350
1300
1250
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

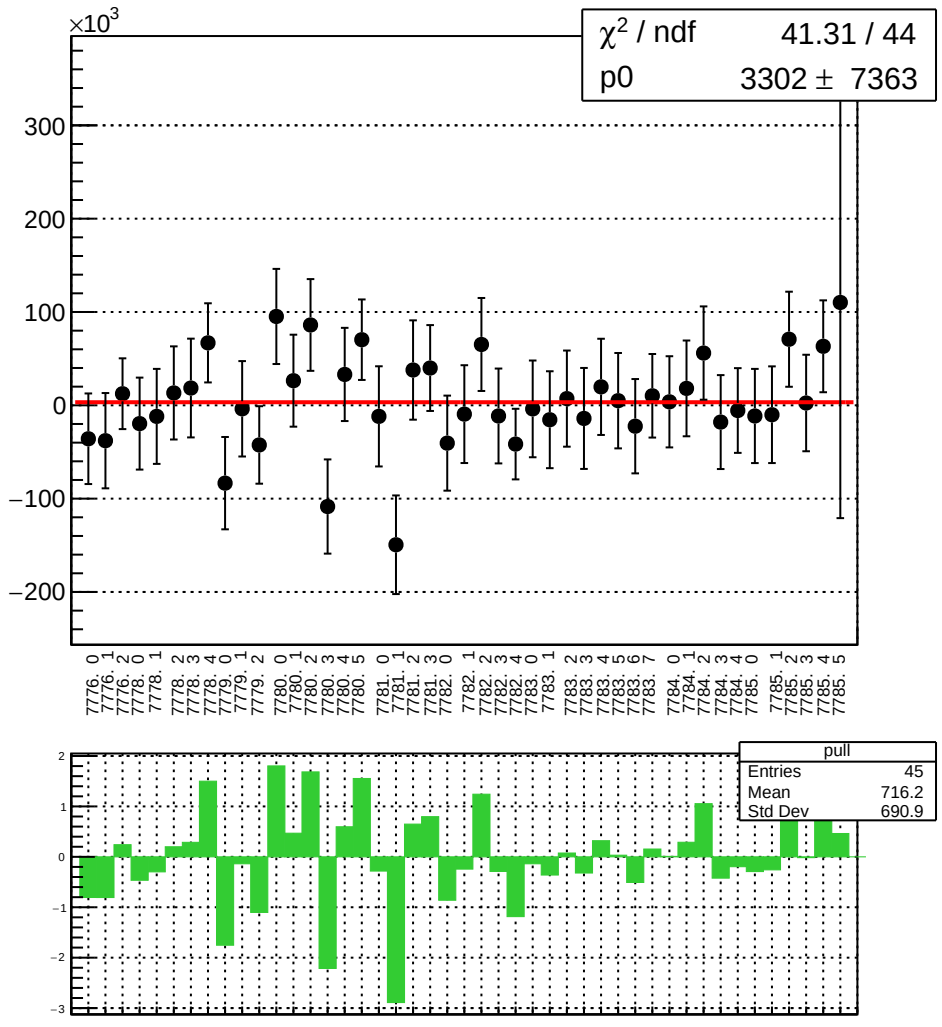

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 46.26 / 44
p0 −1418 ± 2828
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 200.7
Std Dev 171.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

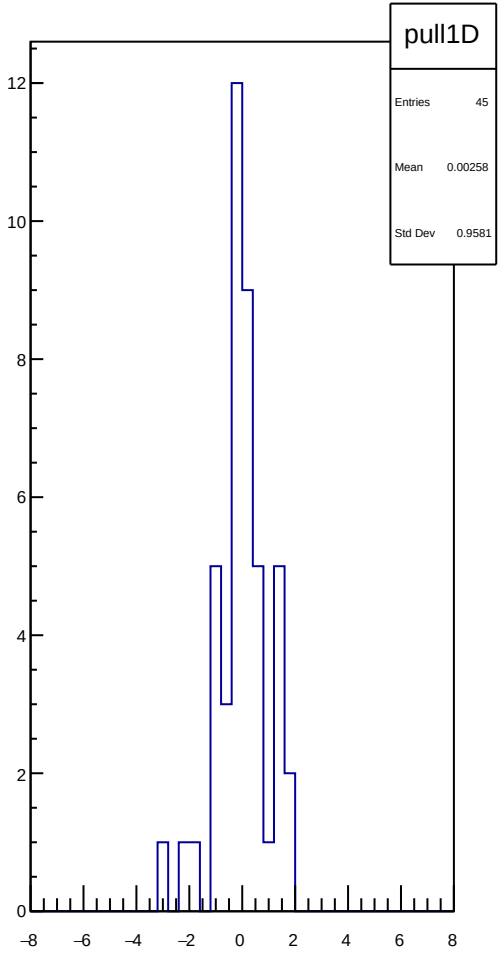

pull1D
Entries 45
Mean −0.008229
Std Dev 1.014
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

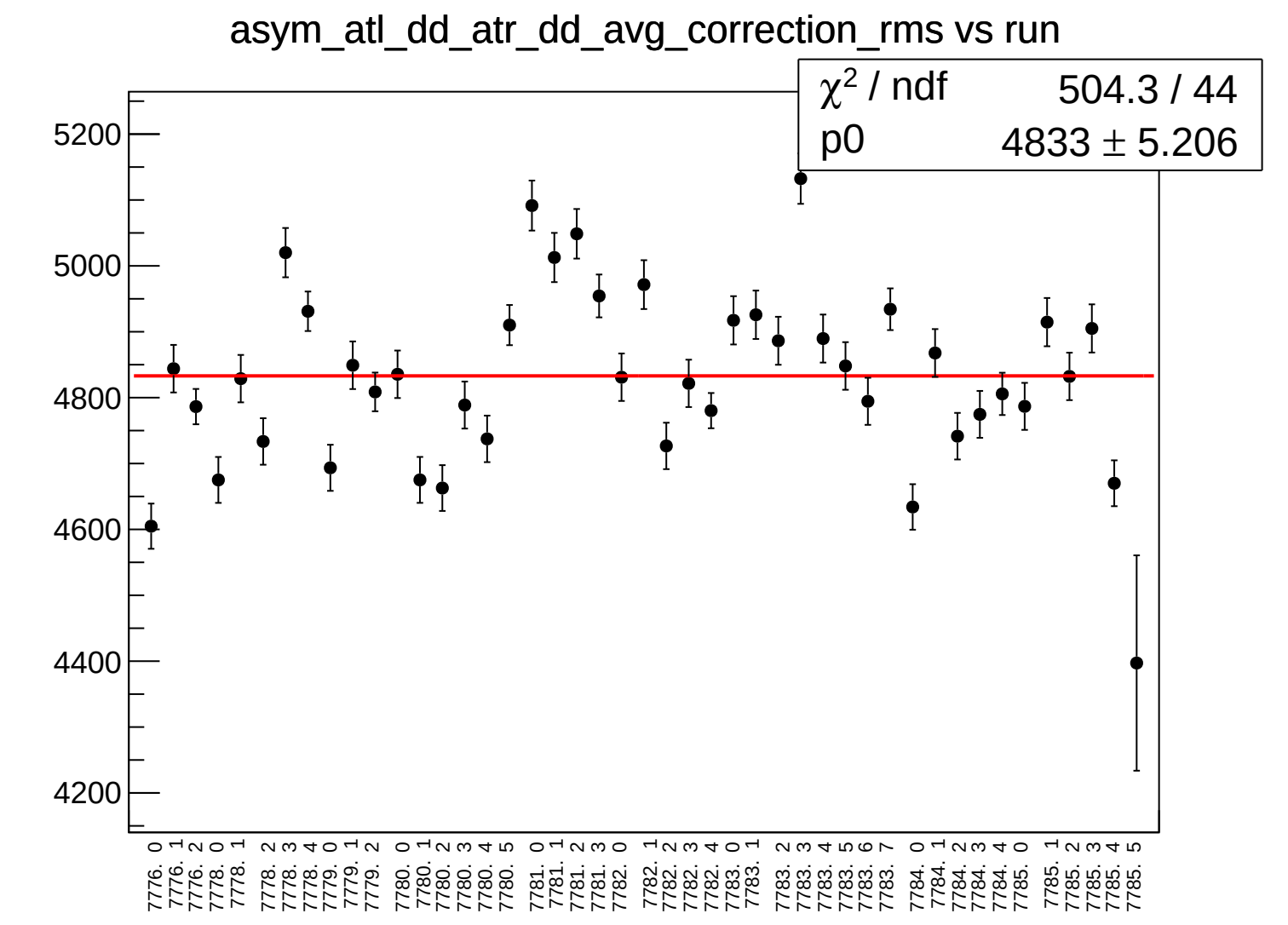

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 3553 / 44
p0 1853 ± 2
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

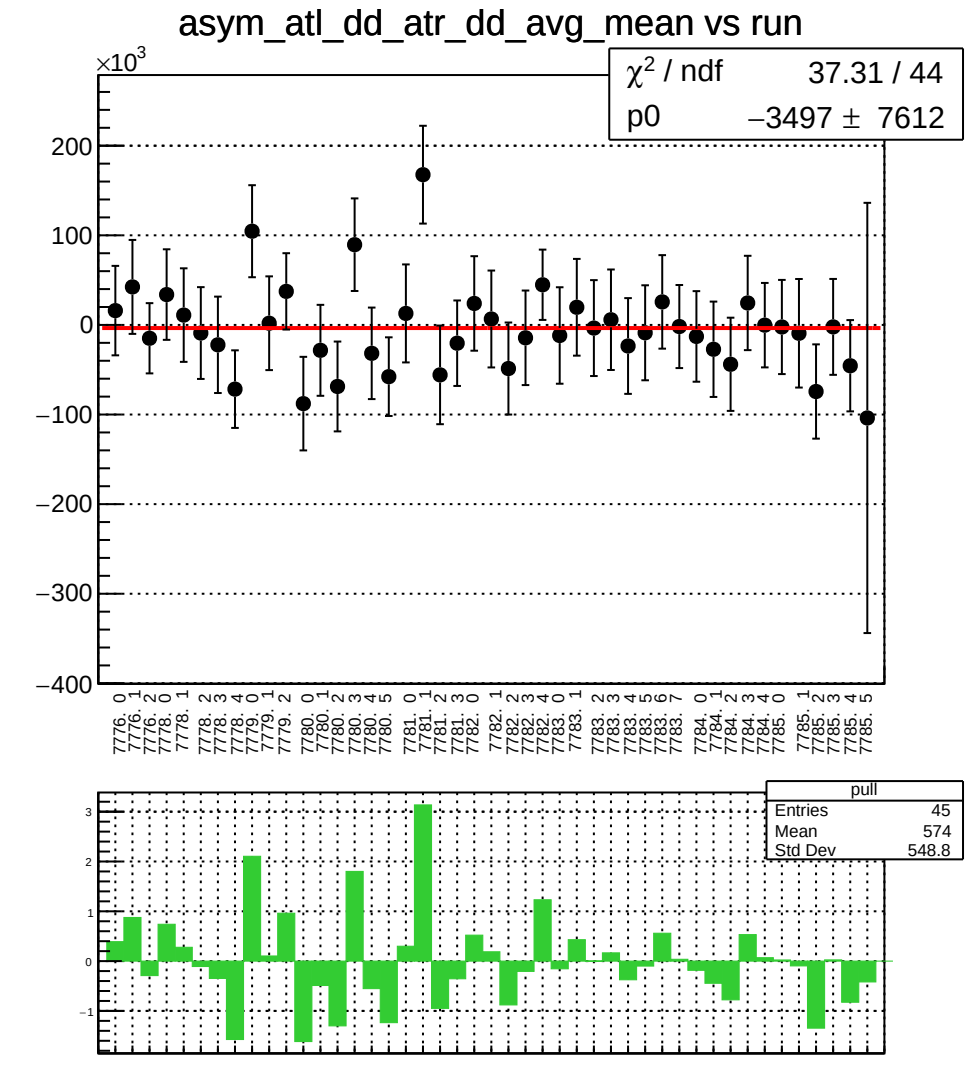

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 31.82 / 44
p0 182.2 ± 1997
80000
60000
40000
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 62.41
Std Dev 38.22
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01366
Std Dev 0.8408
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

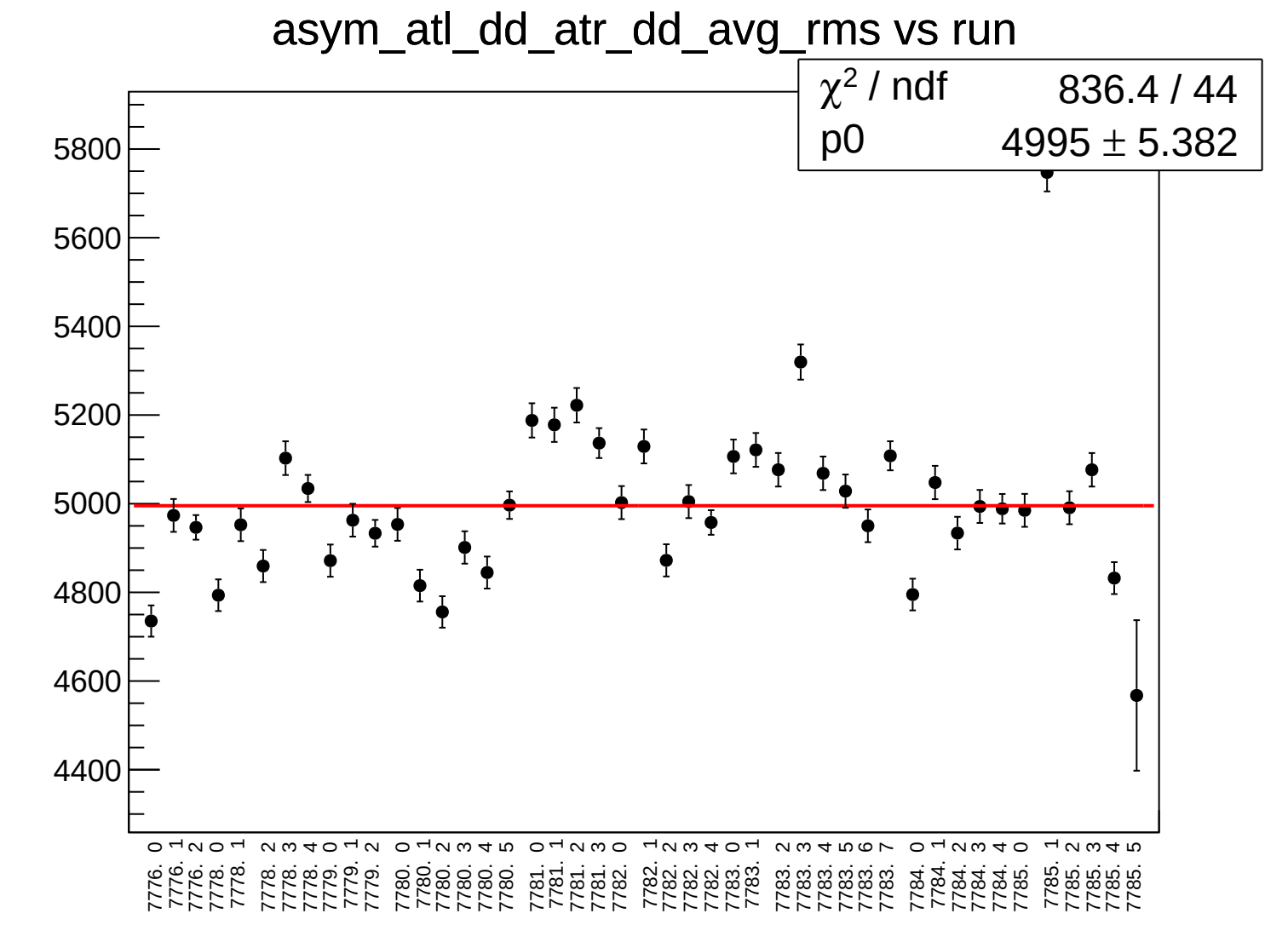

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5686 / 44
p0 1307 ± 1.412
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

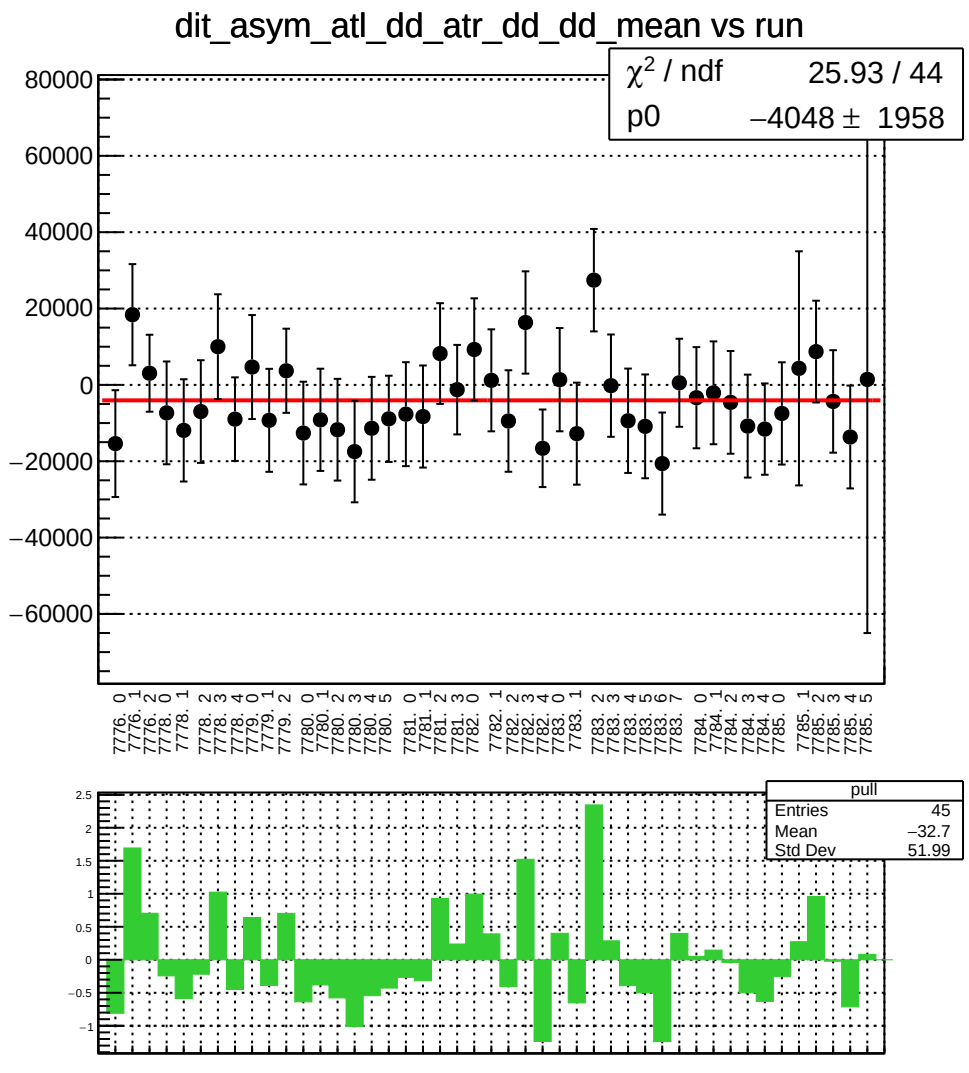

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 41.31 / 44
p0 3302 ± 7363
×10³
pull
Entries 45
Mean 716.2
Std Dev 690.9

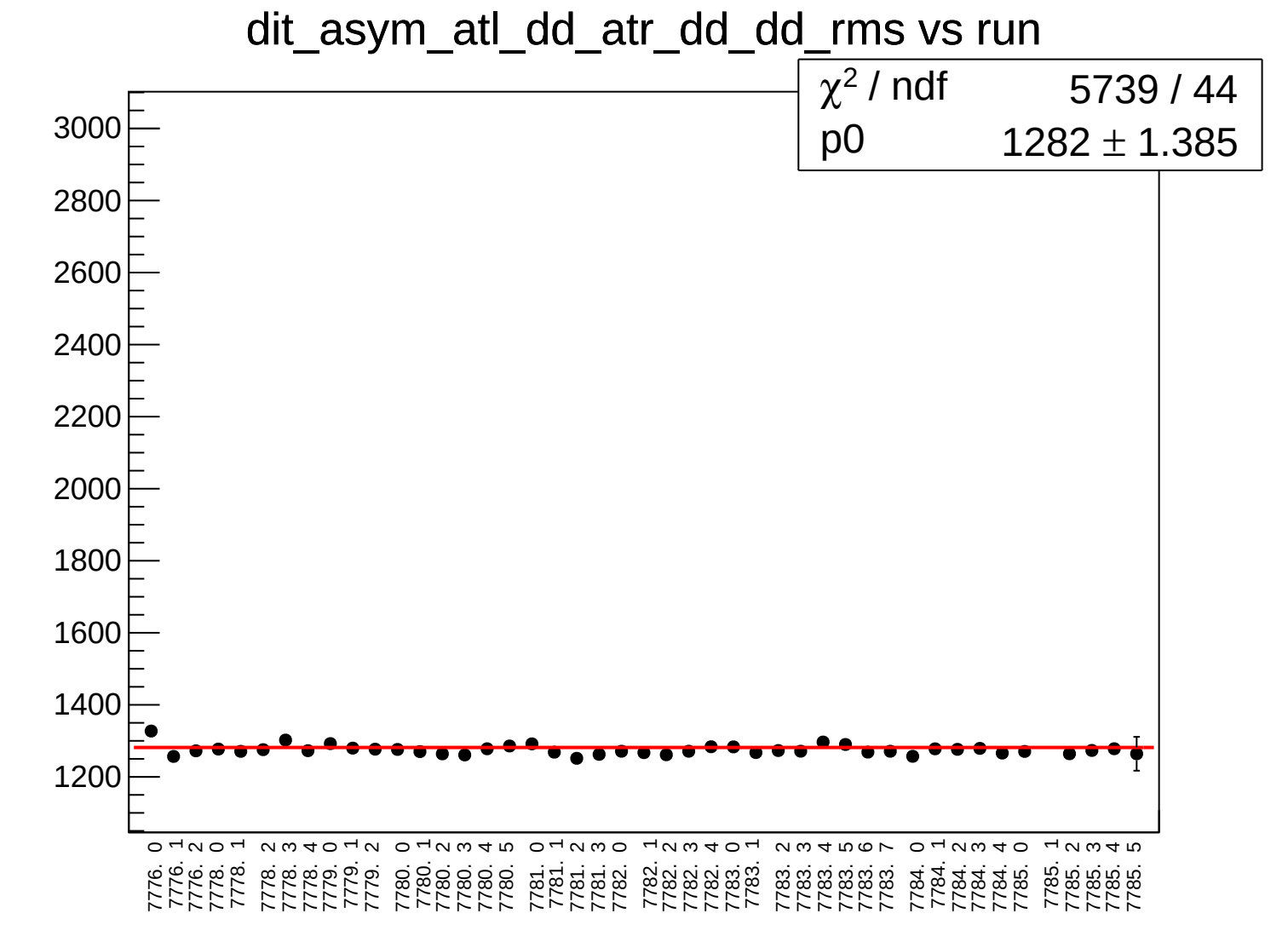

pull1D
Entries 45
Mean 0.00258
Std Dev 0.9581

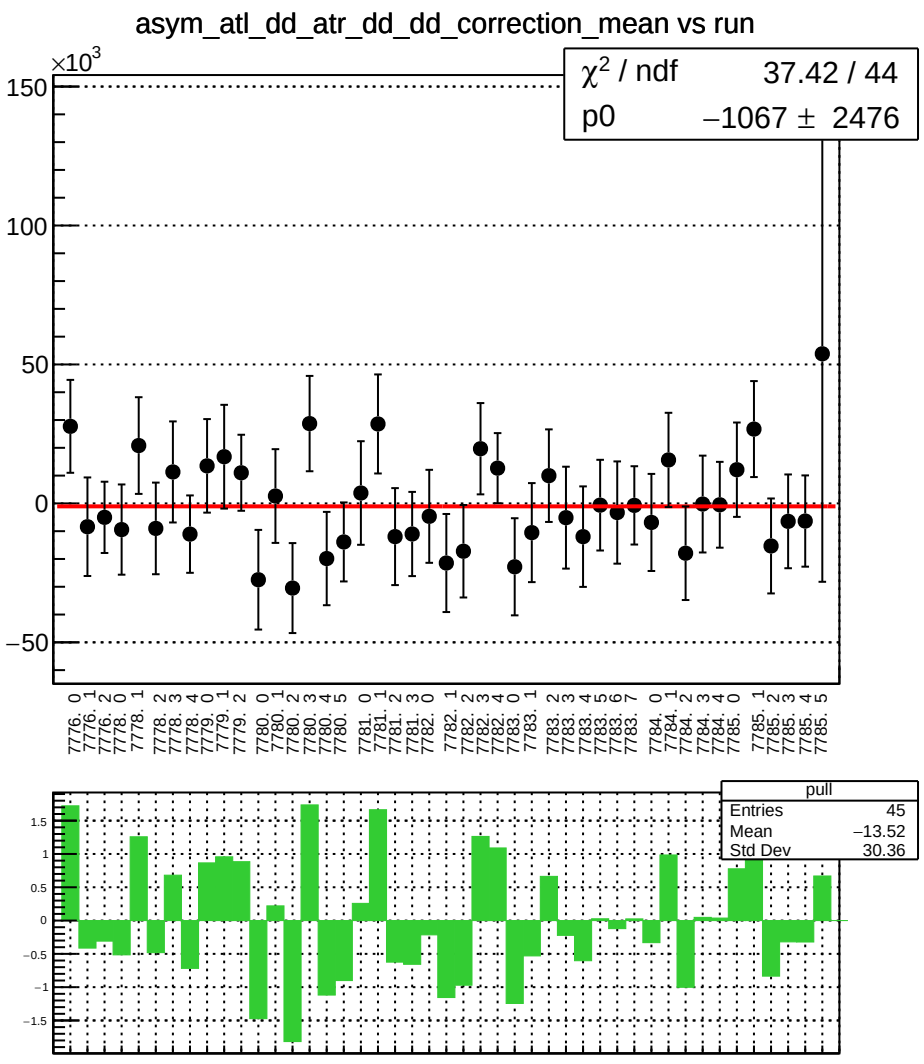

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 504.3 / 44
p0 4833 ± 5.206
5200
5000
4800
4600
4400
4200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

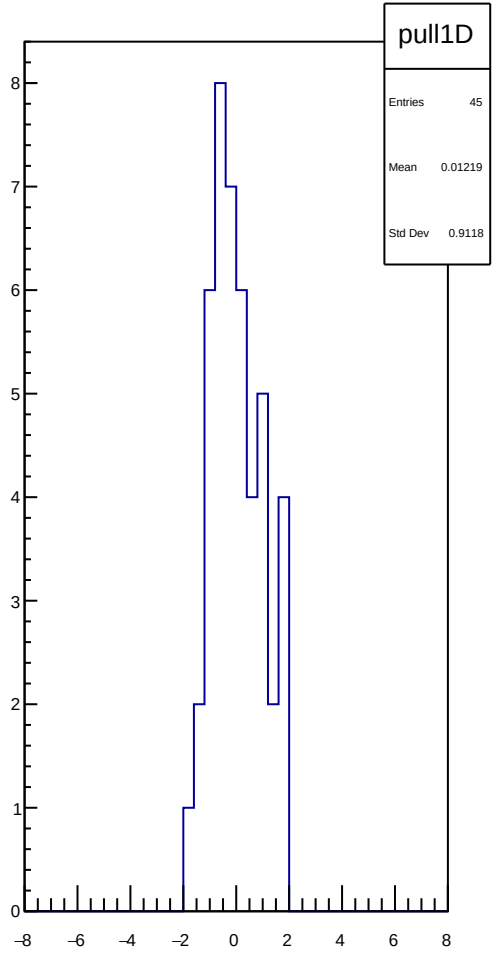

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.31 / 44
p0 −3497 ± 7612
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 574
Std Dev 548.8
3
2
1
0
−1
pull1D
Entries 45
Mean −0.0035
Std Dev 0.9105
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

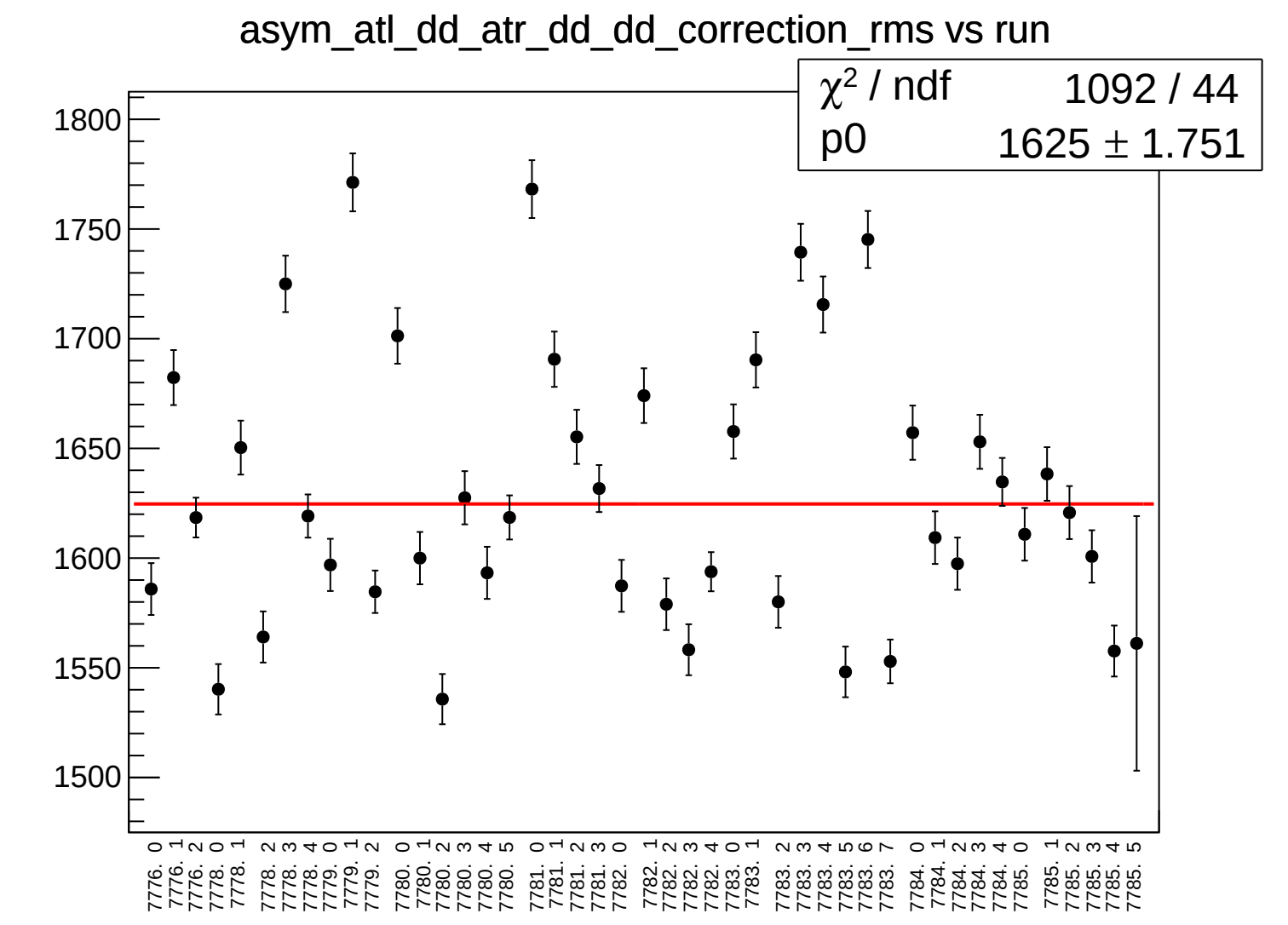

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 836.4 / 44
p0 4995 ± 5.382
5800
5600
5400
5200
5000
4800
4600
4400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

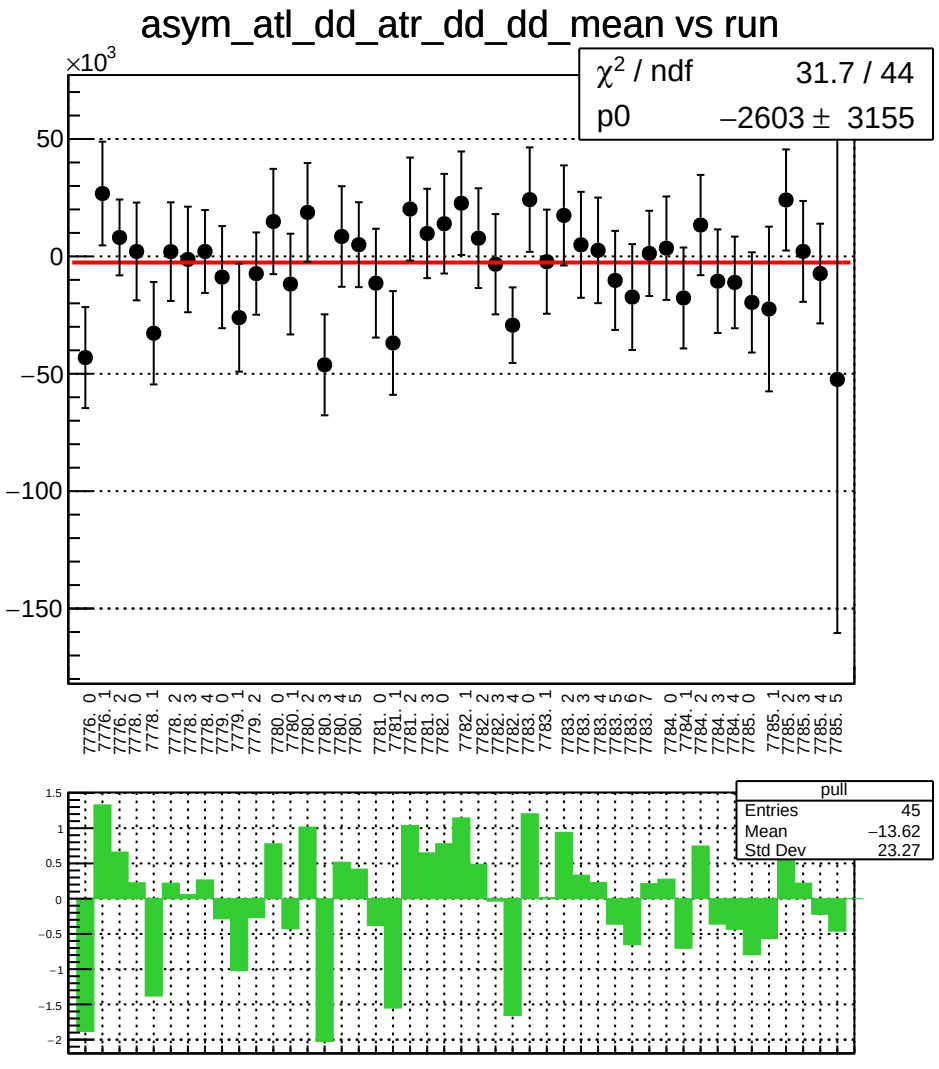

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 25.93 / 44
p0 −4048 ± 1958
80000
60000
40000
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −32.7
Std Dev 51.99
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.007567
Std Dev 0.759
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

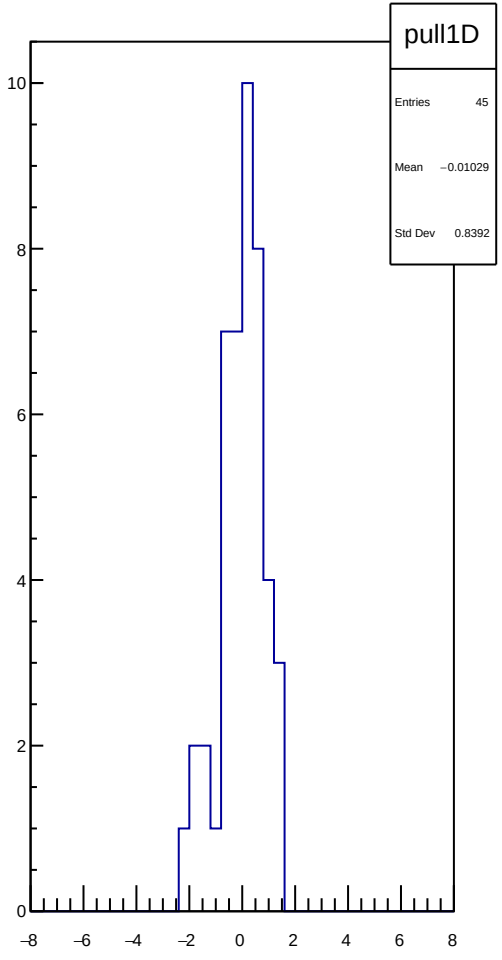

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 5739 / 44
p0 1282 ± 1.385
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

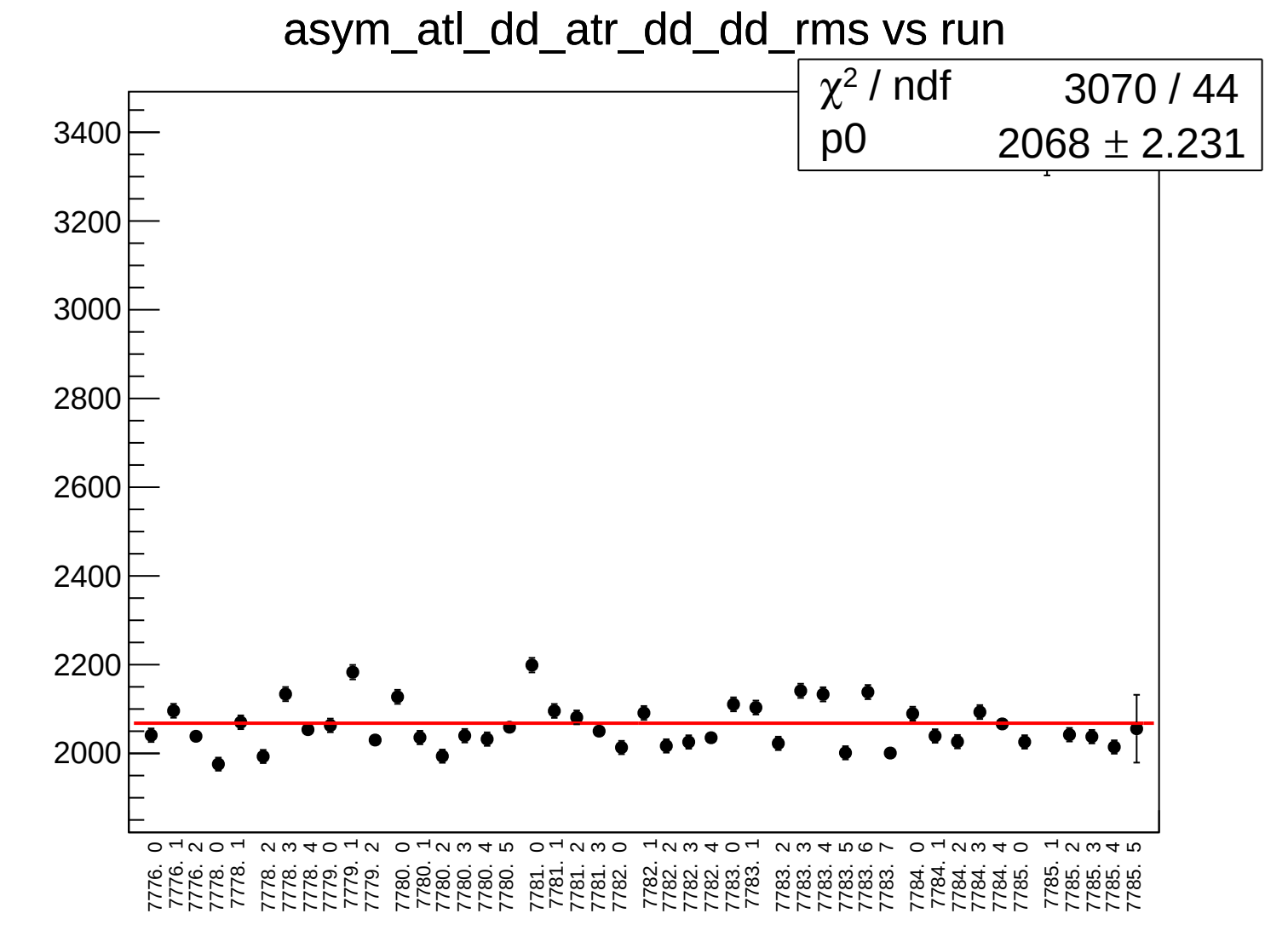

asym_atl_dd_atr_dd_dd_correction_mean vs run
×10^3
χ² / ndf 37.42 / 44
p0 −1067 ± 2476
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.52
Std Dev 30.36
1.5
1
0.5
0
−0.5
−1
−1.5

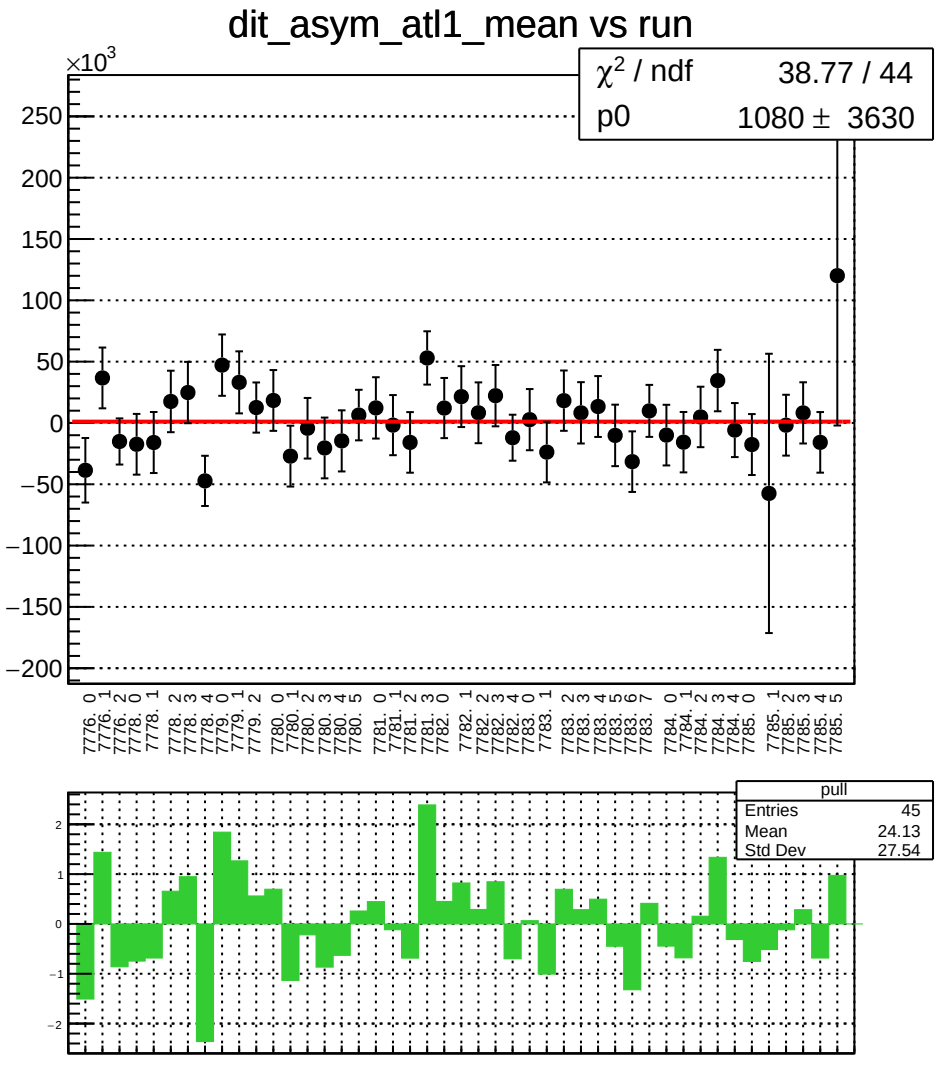

pull1D
Entries 45
Mean 0.01219
Std Dev 0.9118
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

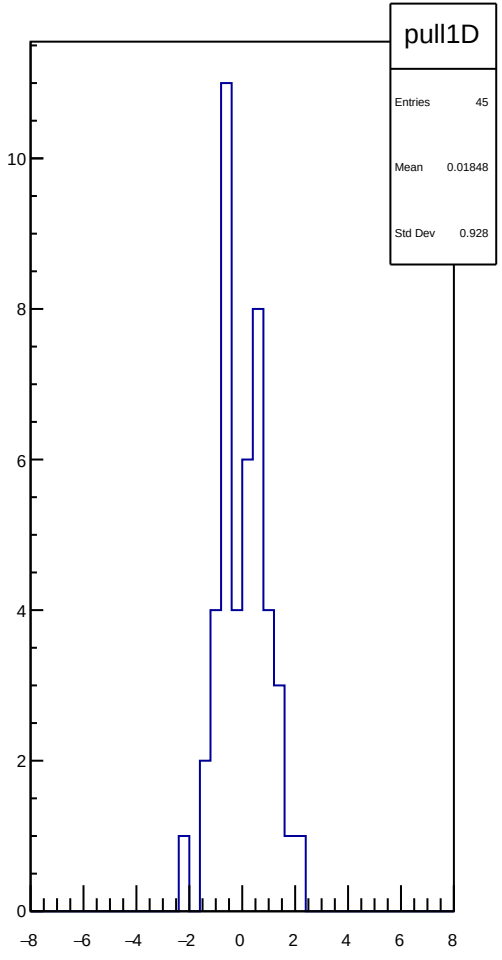

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1092 / 44
p0 1625 ± 1.751
1800
1750
1700
1650
1600
1550
1500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

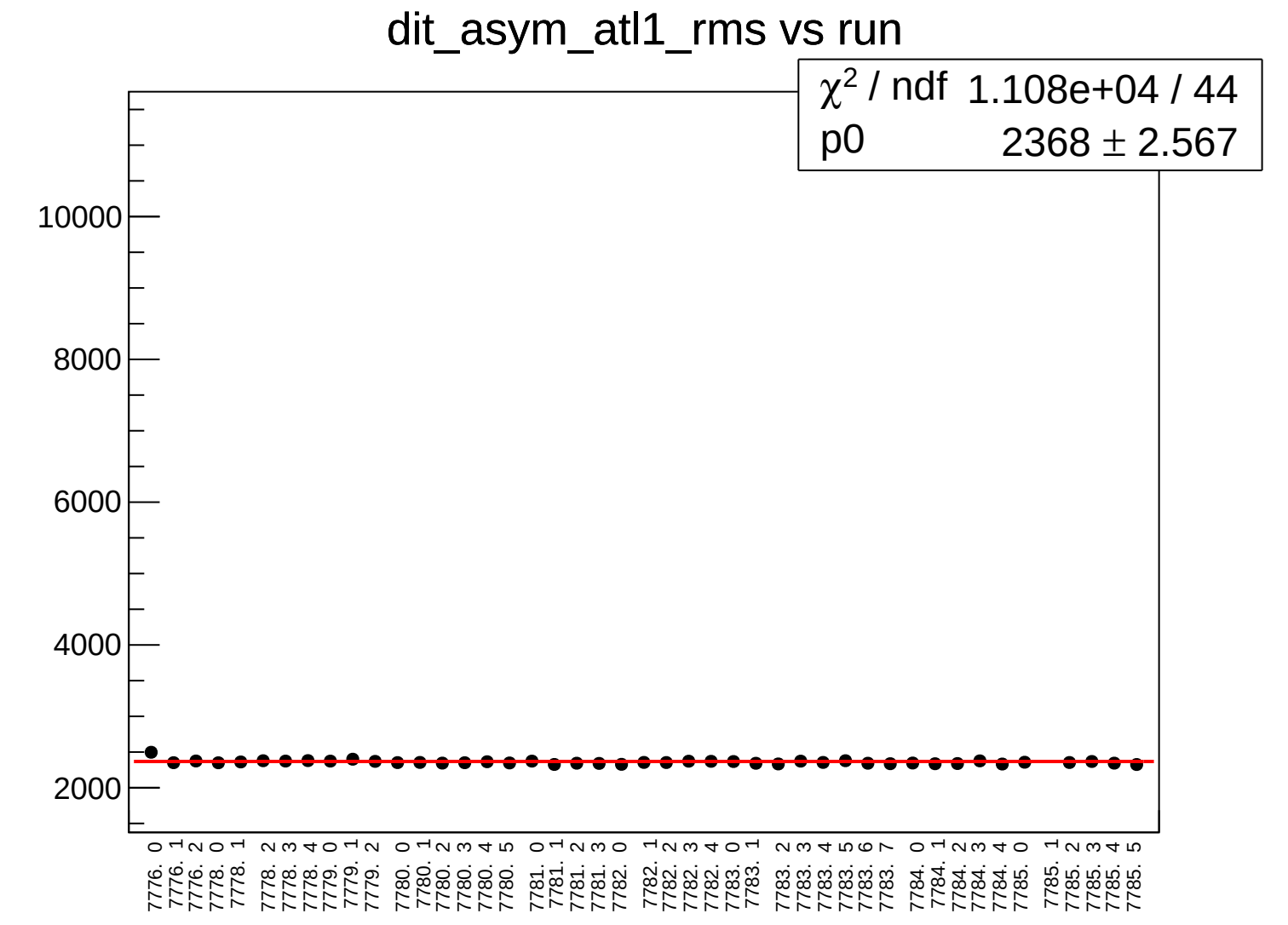

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 31.7 / 44
p0 −2603 ± 3155
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.62
Std Dev 23.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

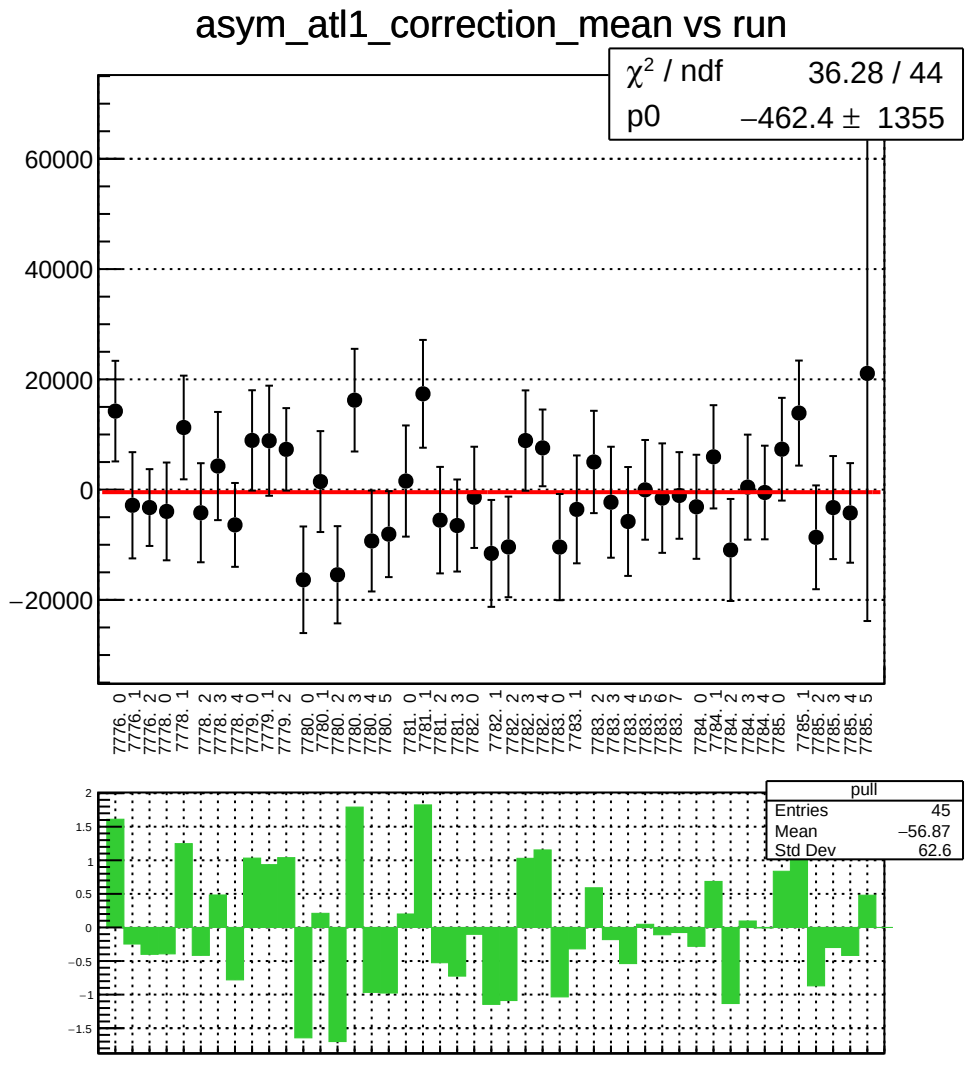

pull1D
Entries 45
Mean −0.01029
Std Dev 0.8392
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

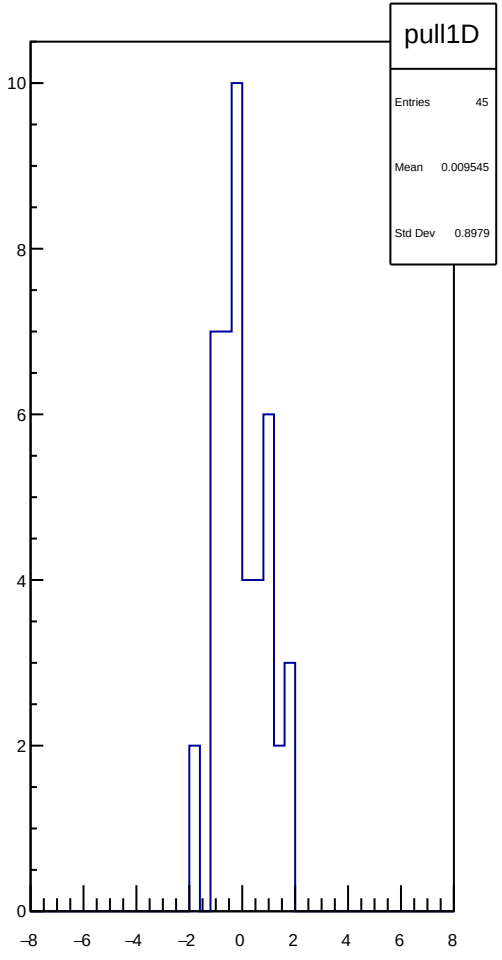

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3070 / 44
p0 2068 ± 2.231
3400
3200
3000
2800
2600
2400
2200
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

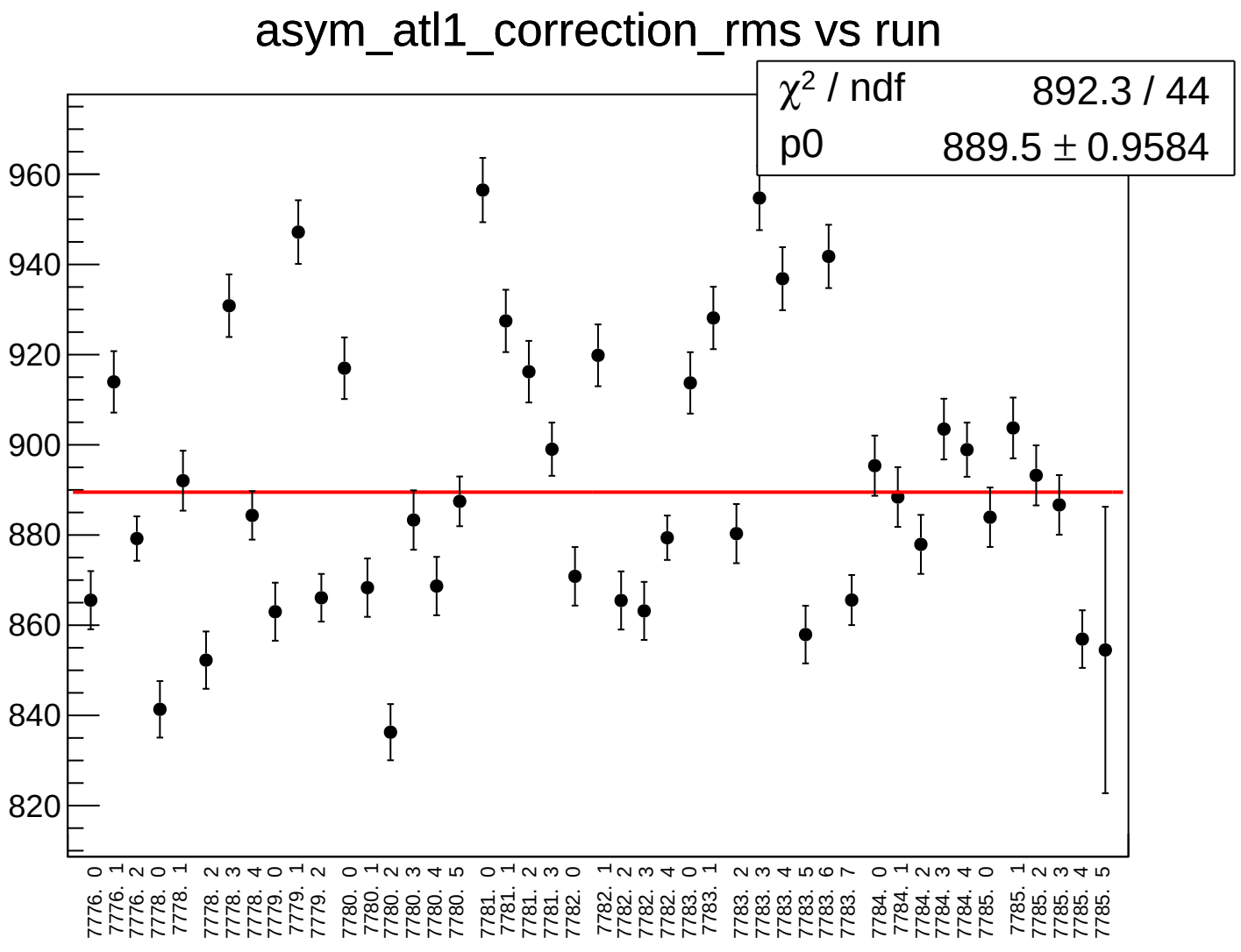

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 38.77 / 44
p0 1080 ± 3630
250
200
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 24.13
Std Dev 27.54
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.01848
Std Dev 0.928
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl1_rms vs run
χ² / ndf 1.108e+04 / 44
p0 2368 ± 2.567
10000
8000
6000
4000
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


asym_atl1_correction_mean vs run
χ² / ndf 36.28 / 44
p0 −462.4 ± 1355
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −56.87
Std Dev 62.6
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.009545
Std Dev 0.8979
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_correction_rms vs run
χ² / ndf 892.3 / 44
p0 889.5 ± 0.9584
960
940
920
900
880
860
840
820
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
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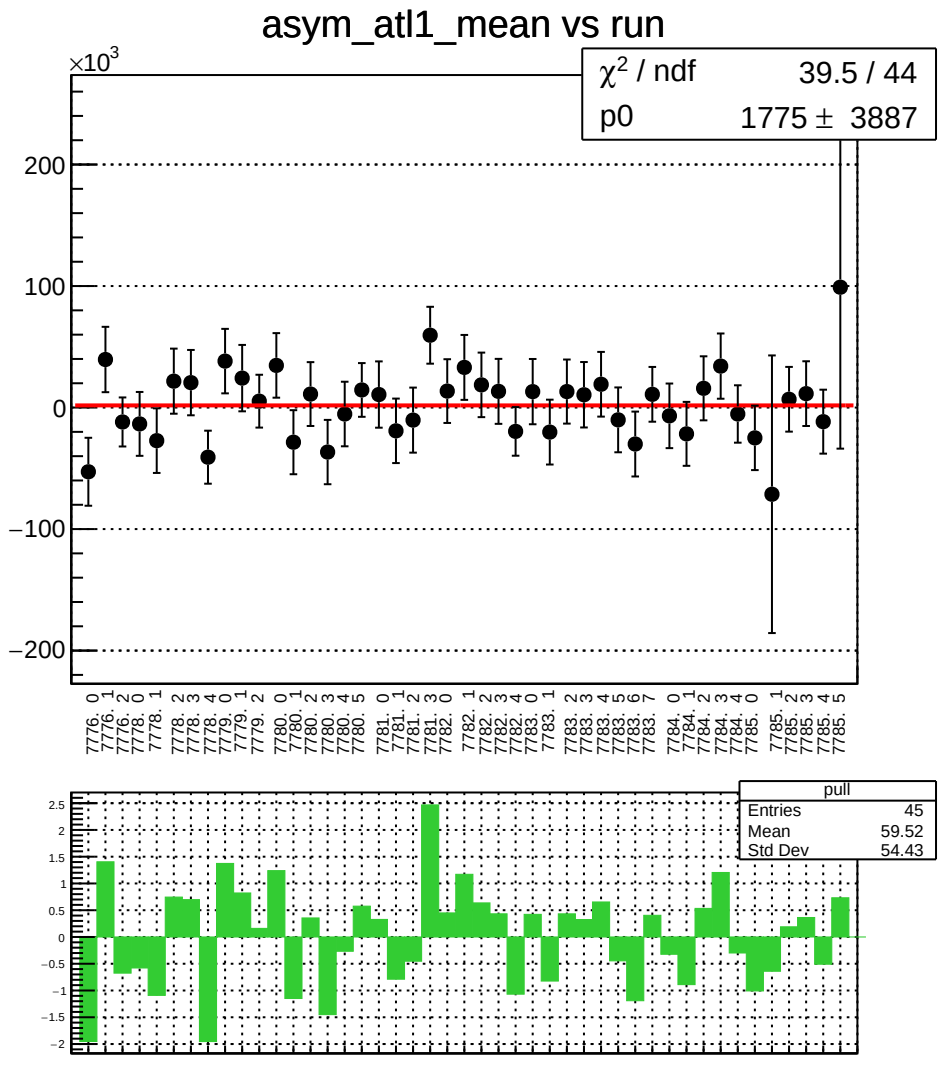
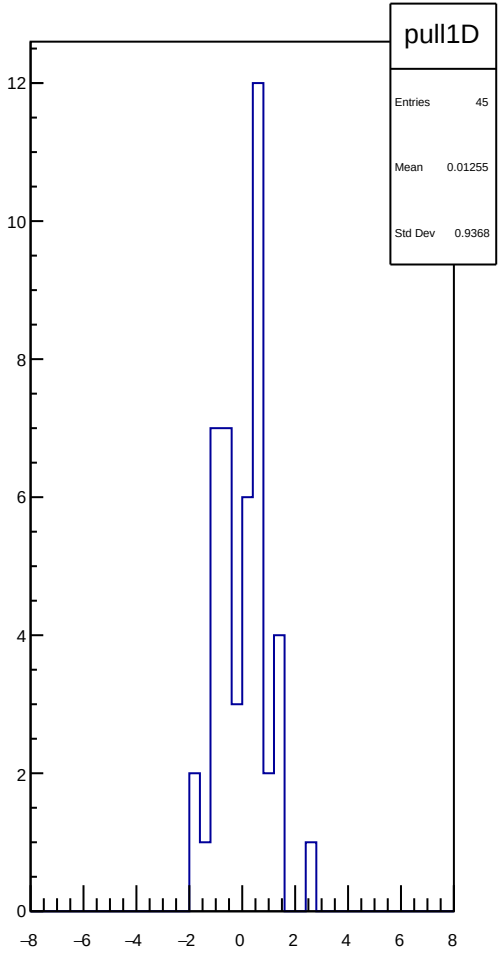
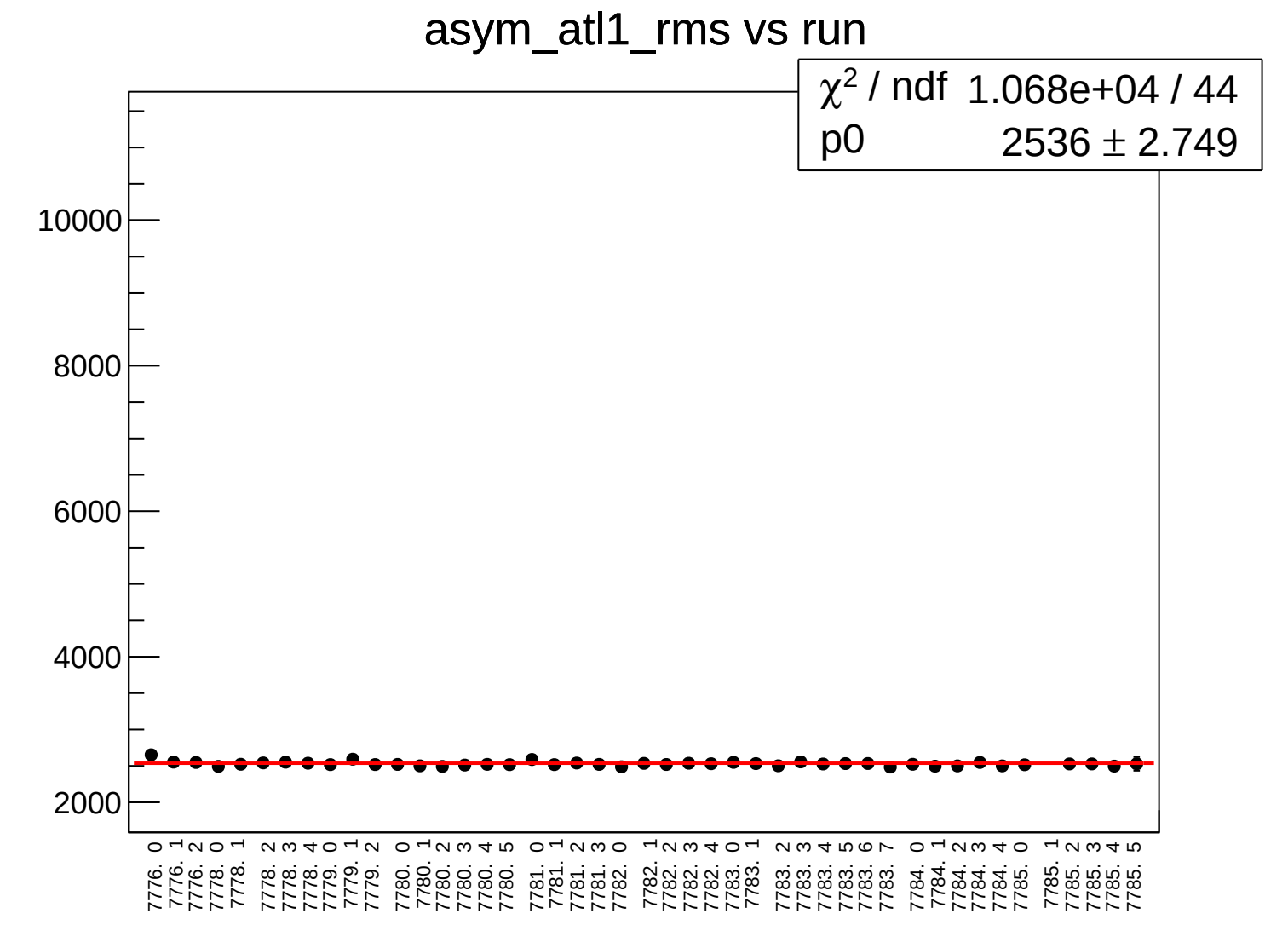
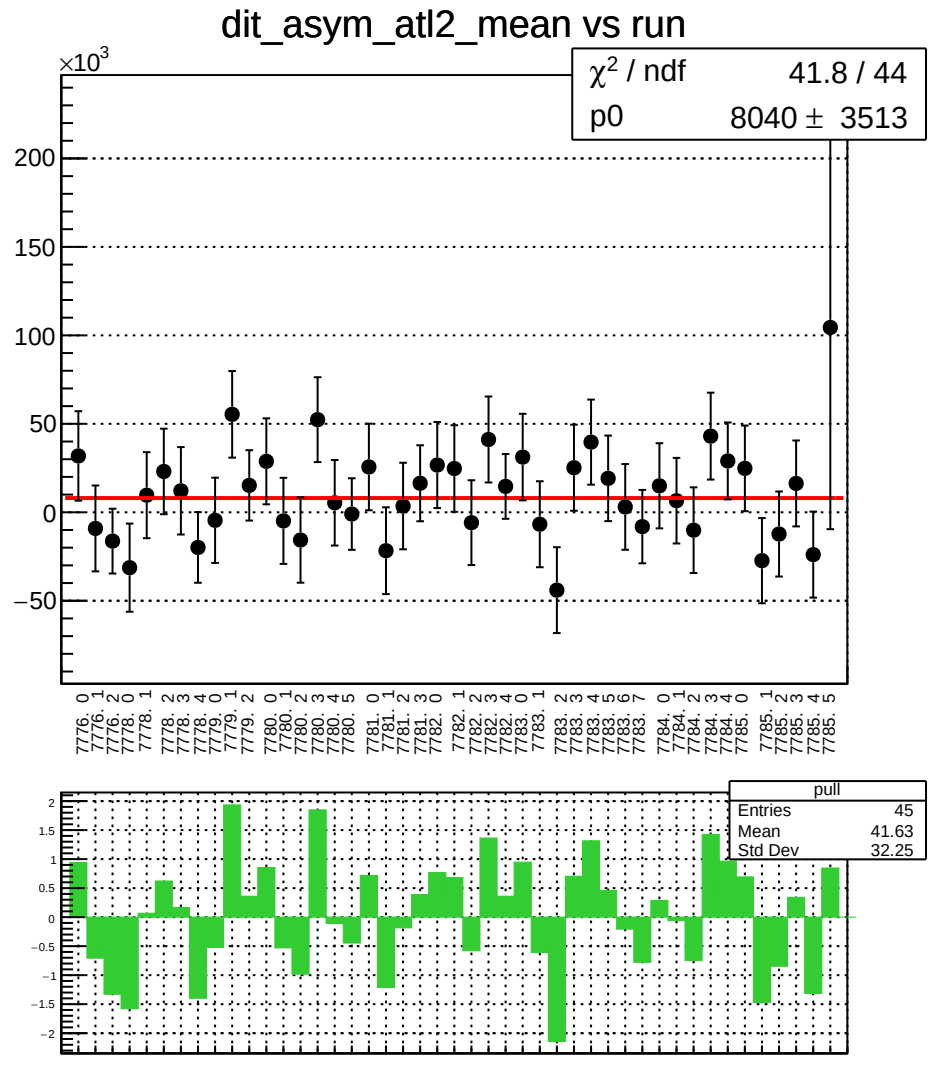
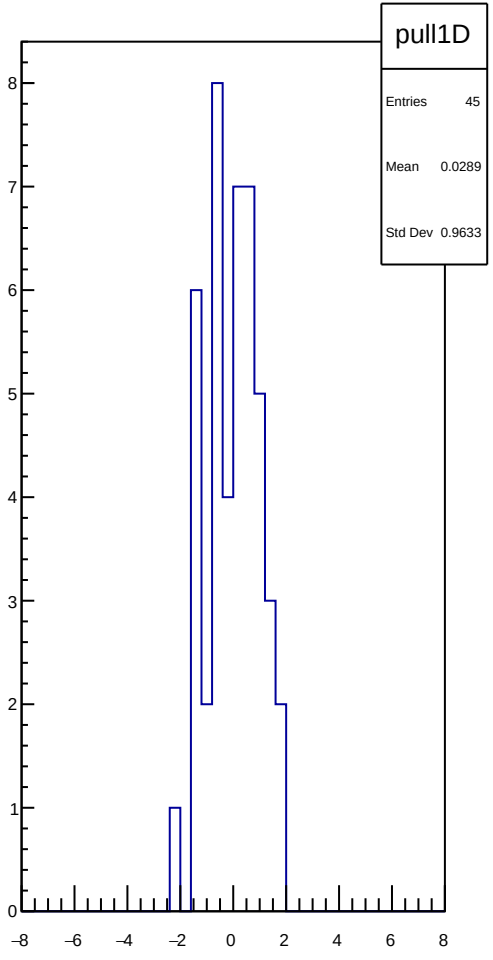
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

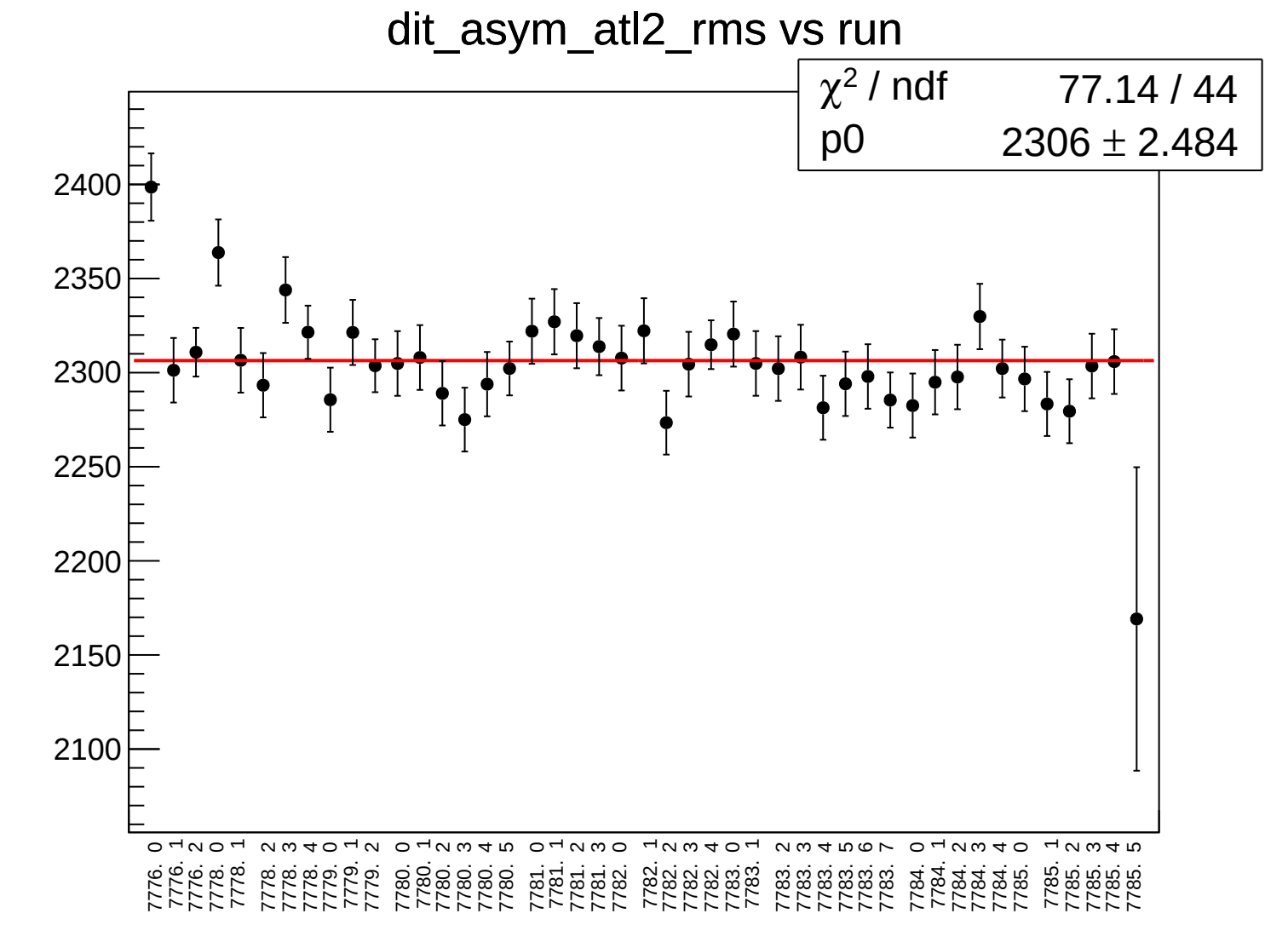

asym_atl1_mean vs run
×10^3
χ^2 / ndf 39.5 / 44
p0 1775 ± 3887
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 59.52
Std Dev 54.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

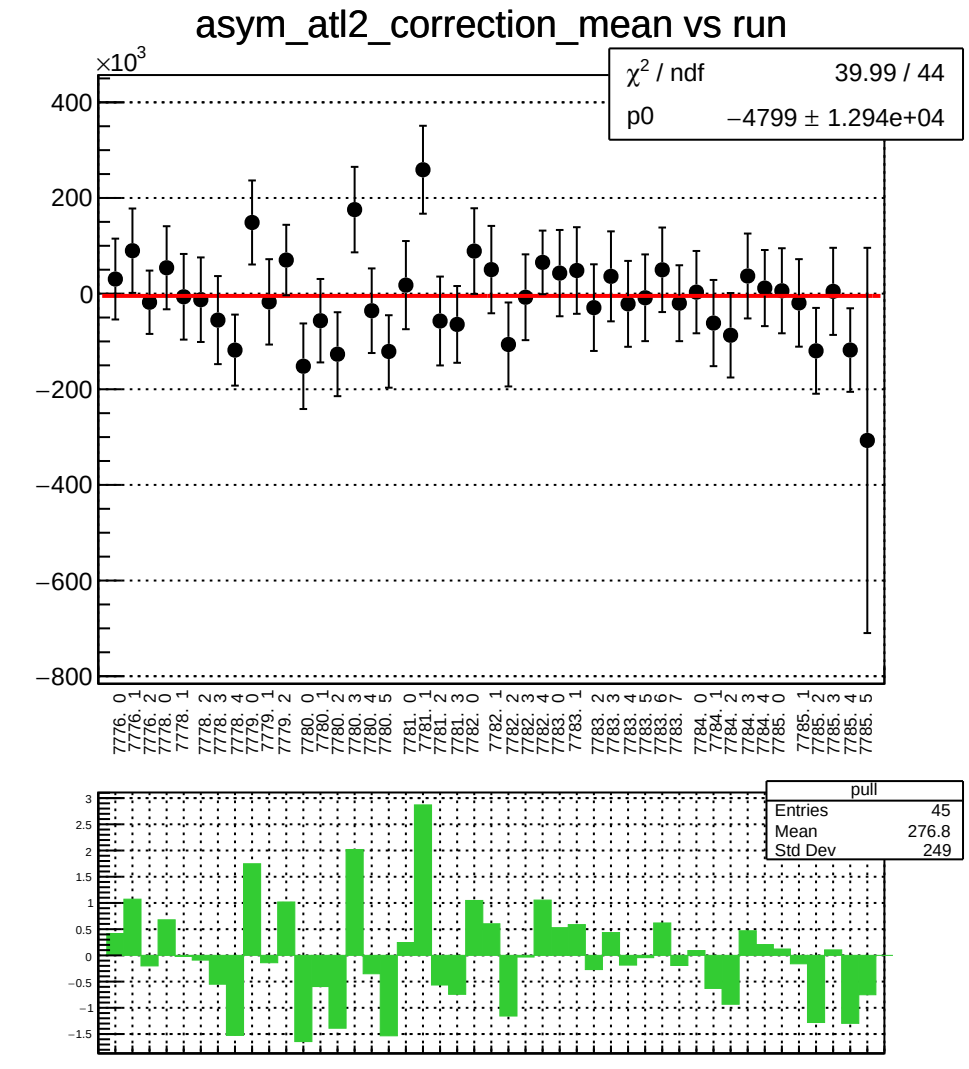

pull1D
Entries 45
Mean 0.01255
Std Dev 0.9368
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

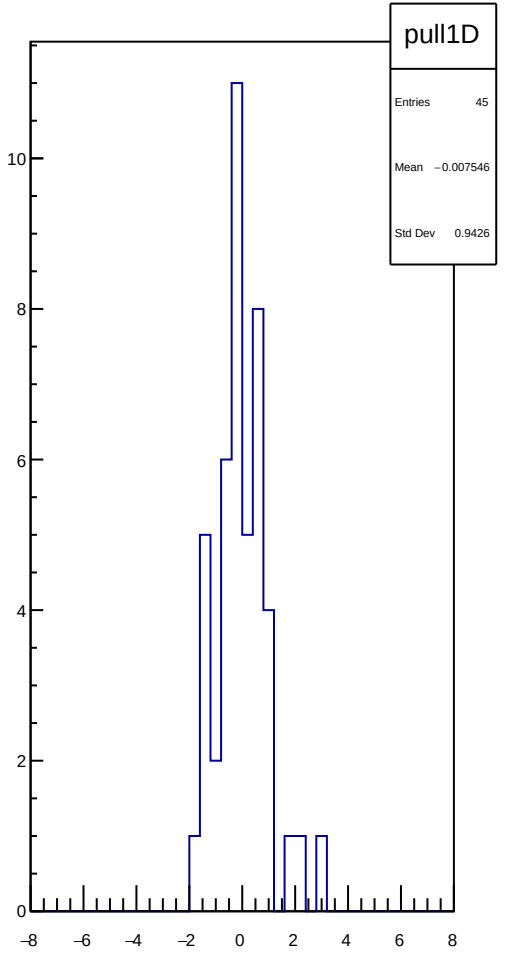

asym_atl1_rms vs run
χ² / ndf 1.068e+04 / 44
p0 2536 ± 2.749
10000
8000
6000
4000
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

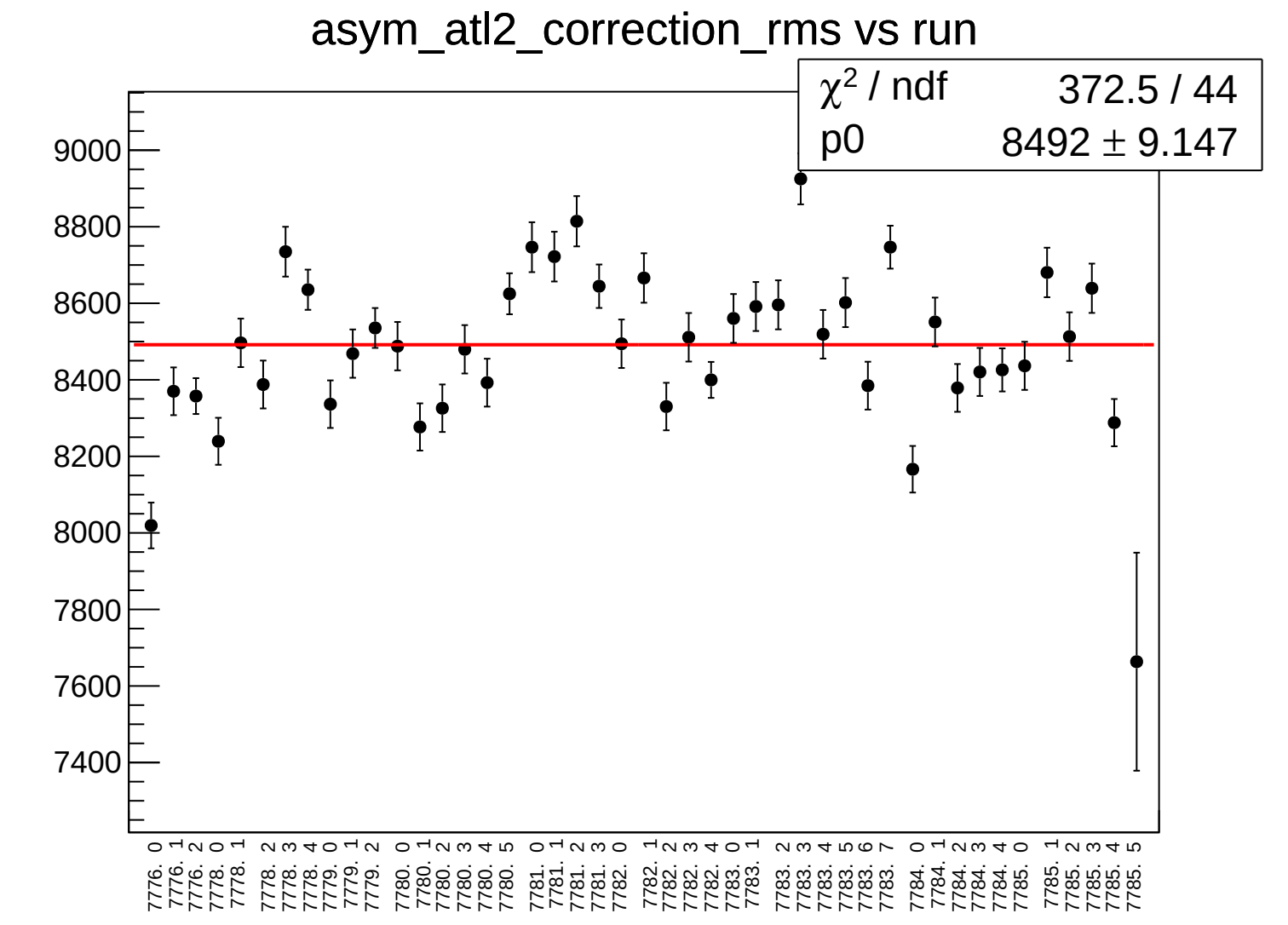

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 41.8 / 44
p0 8040 ± 3513
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 41.63
Std Dev 32.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

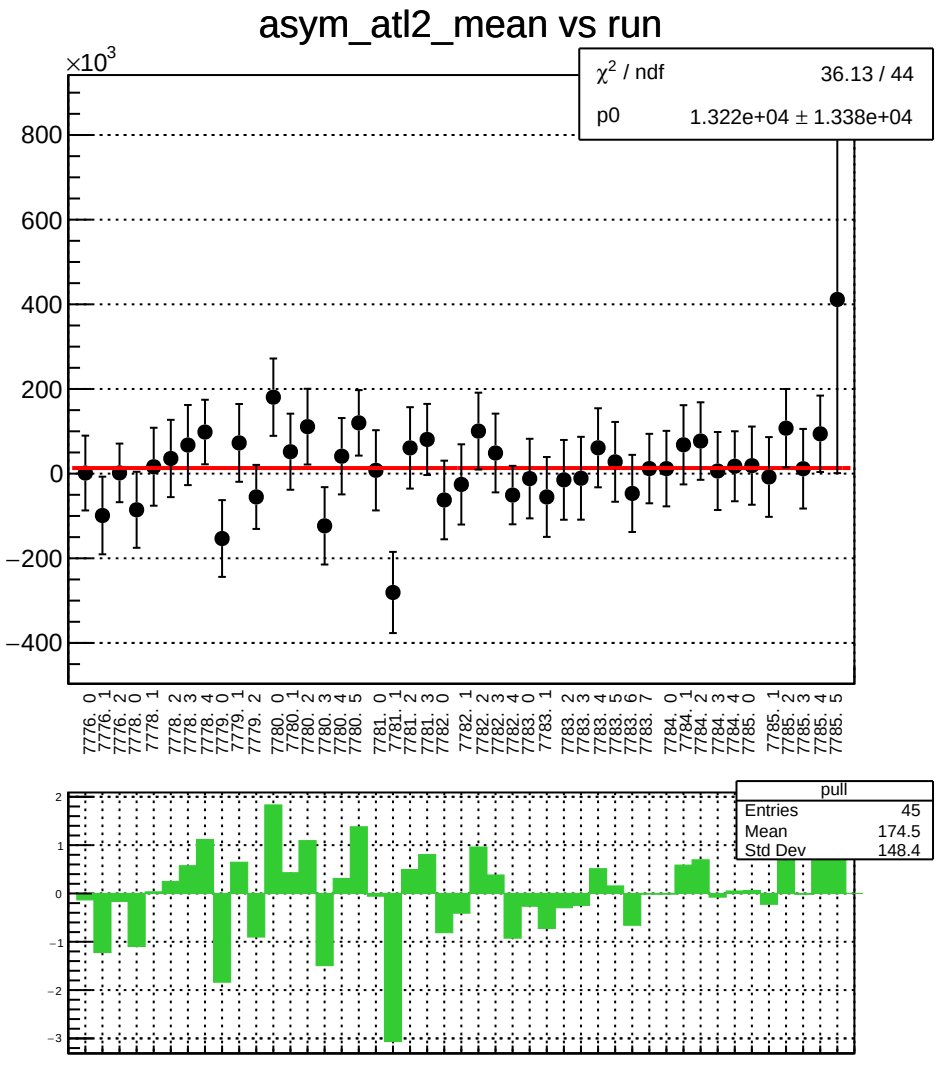

pull1D
Entries 45
Mean 0.0289
Std Dev 0.9633
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

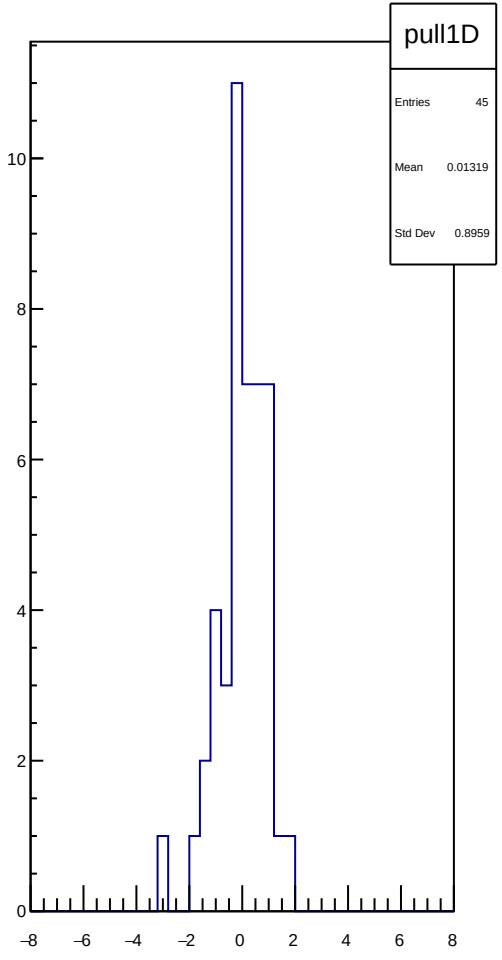

dit_asym_atl2_rms vs run
χ² / ndf 77.14 / 44
p0 2306 ± 2.484
2400
2350
2300
2250
2200
2150
2100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

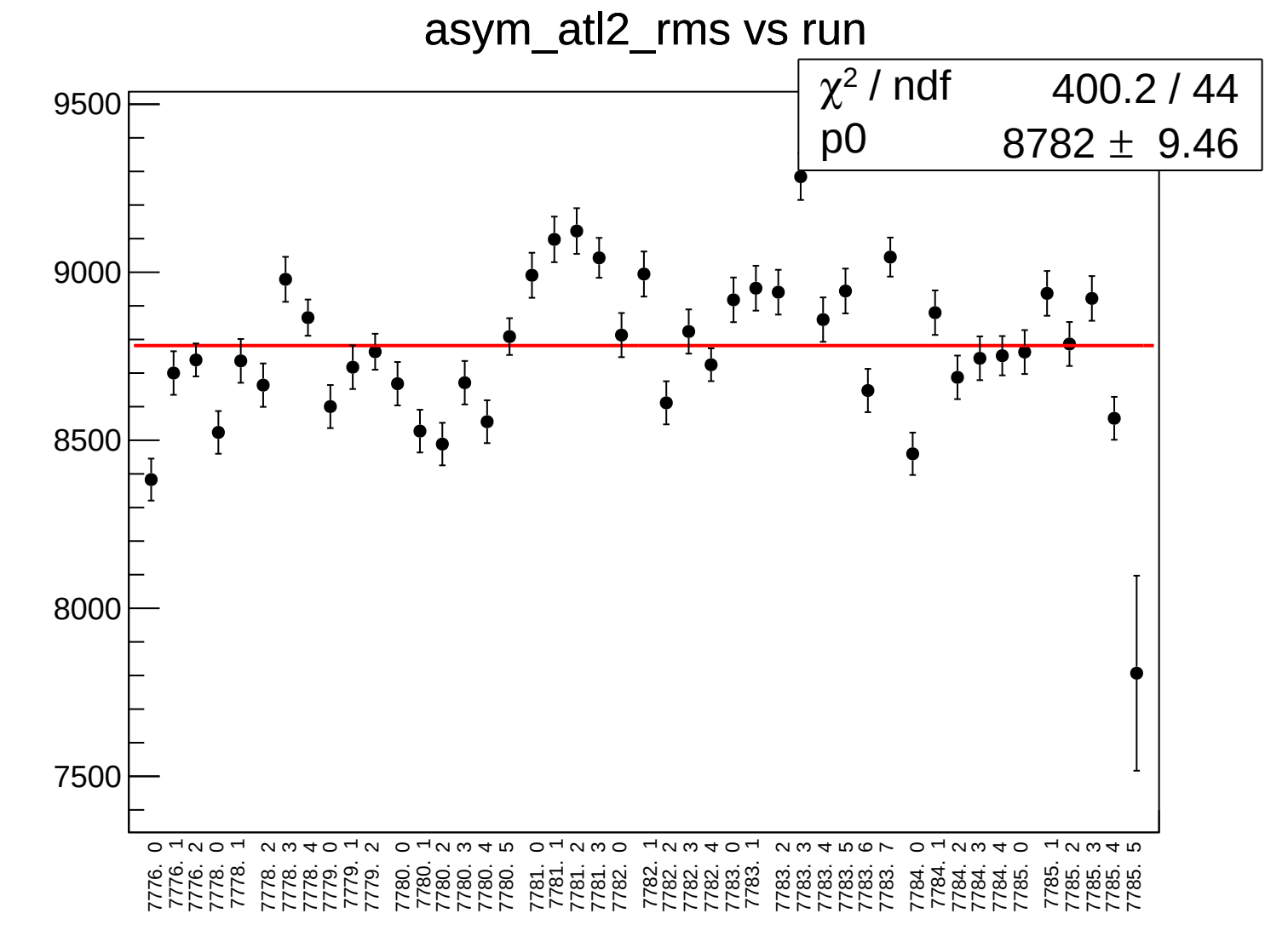

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 39.99 / 44
p0 −4799 ± 1.294e+04
pull
Entries 45
Mean 276.8
Std Dev 249

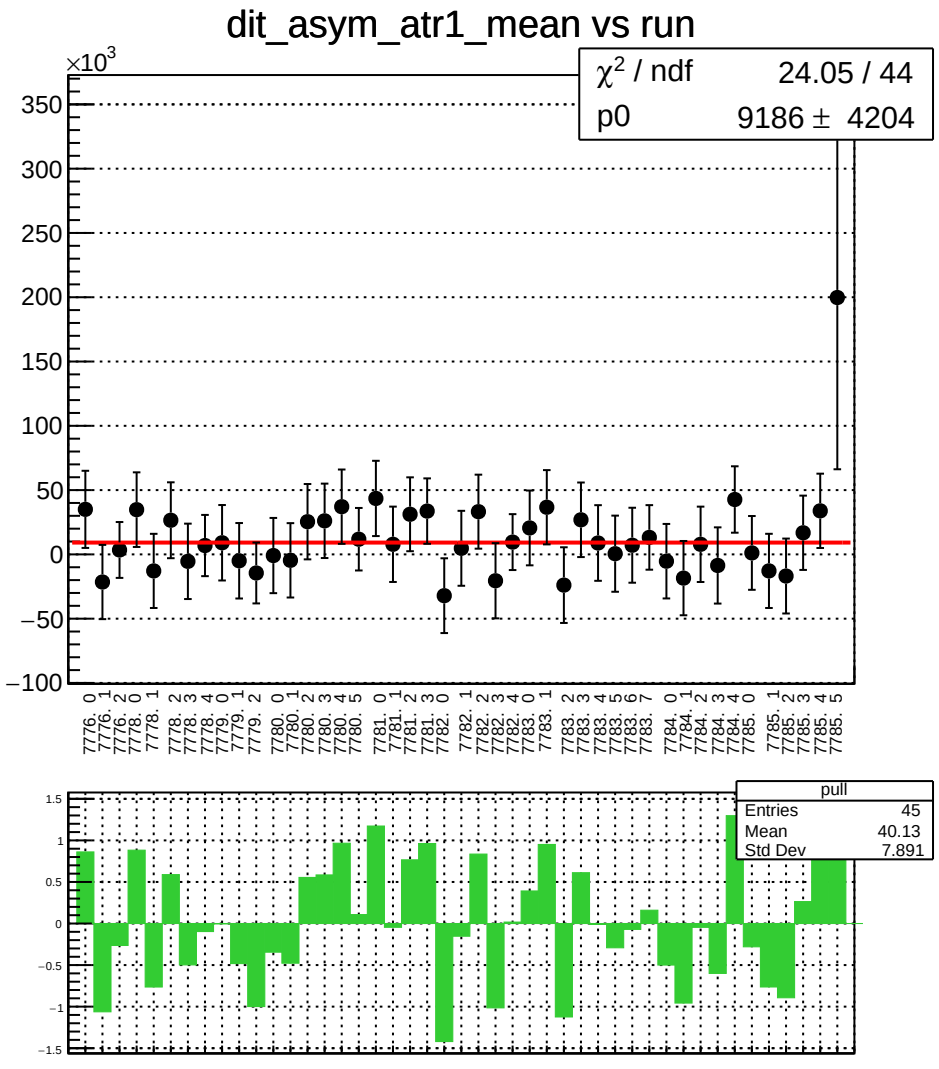

pull1D
Entries 45
Mean −0.007546
Std Dev 0.9426

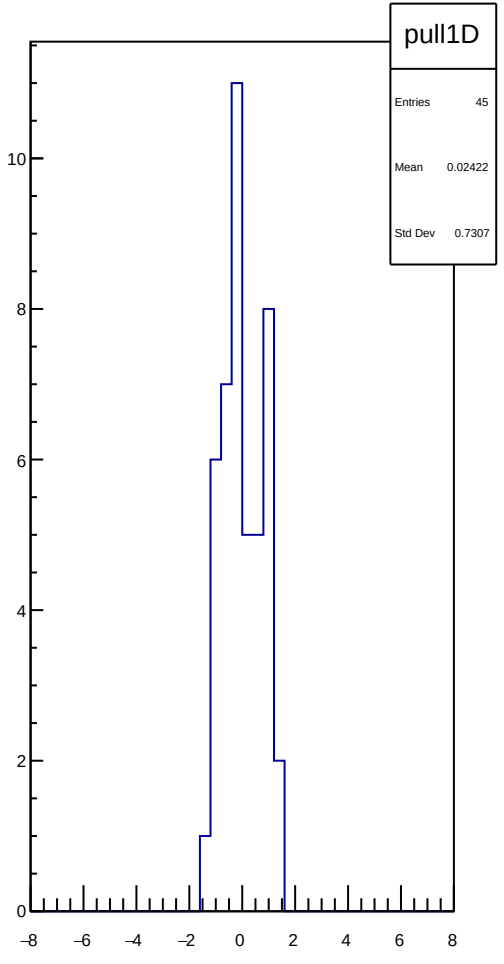

asym_atl2_correction_rms vs run
χ² / ndf 372.5 / 44
p0 8492 ± 9.147
9000
8800
8600
8400
8200
8000
7800
7600
7400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

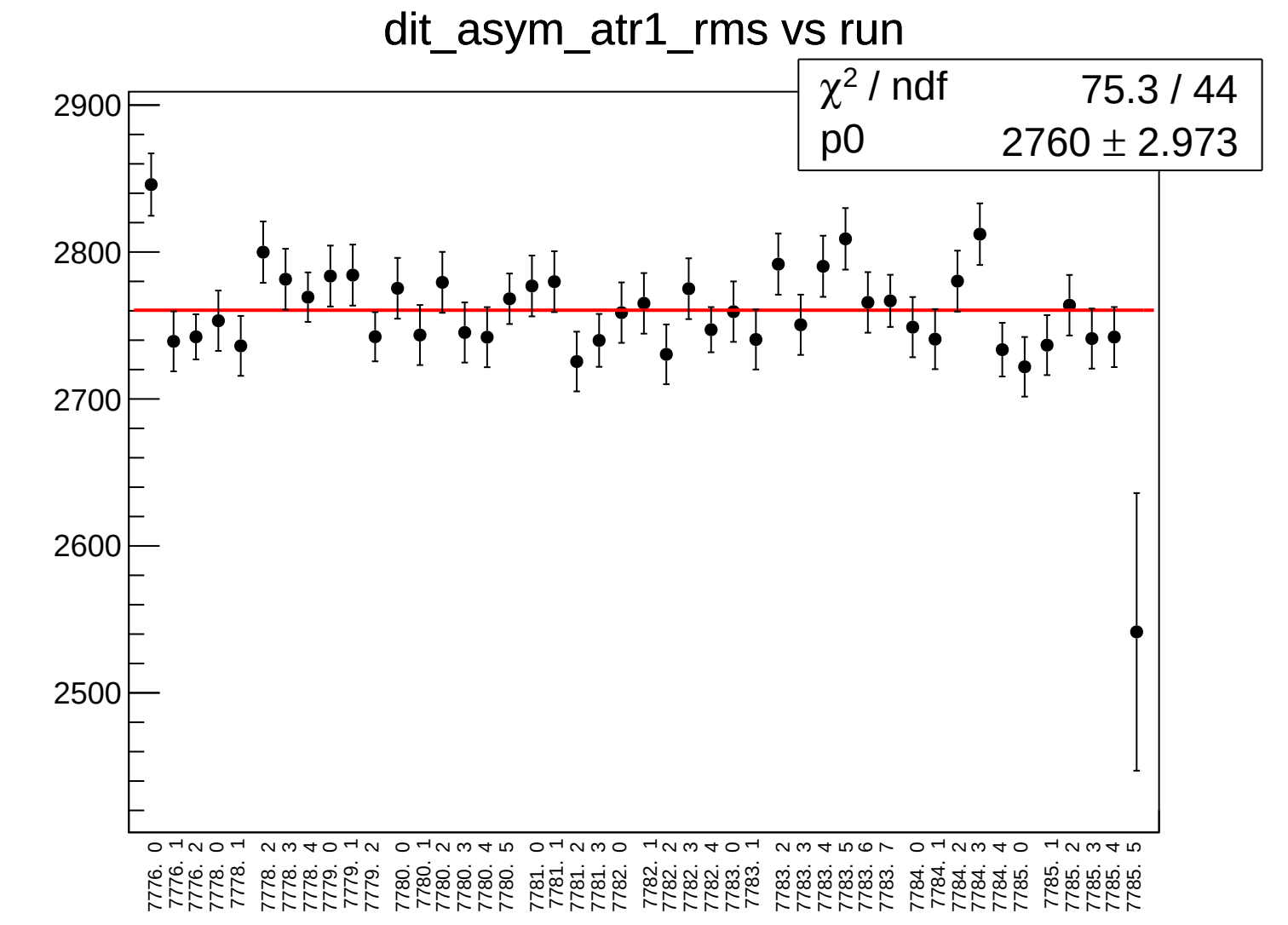

asym_atl2_mean vs run
×10^3
χ² / ndf 36.13 / 44
p0 1.322e+04 ± 1.338e+04
800
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 174.5
Std Dev 148.4
2
1
0
−1
−2
−3

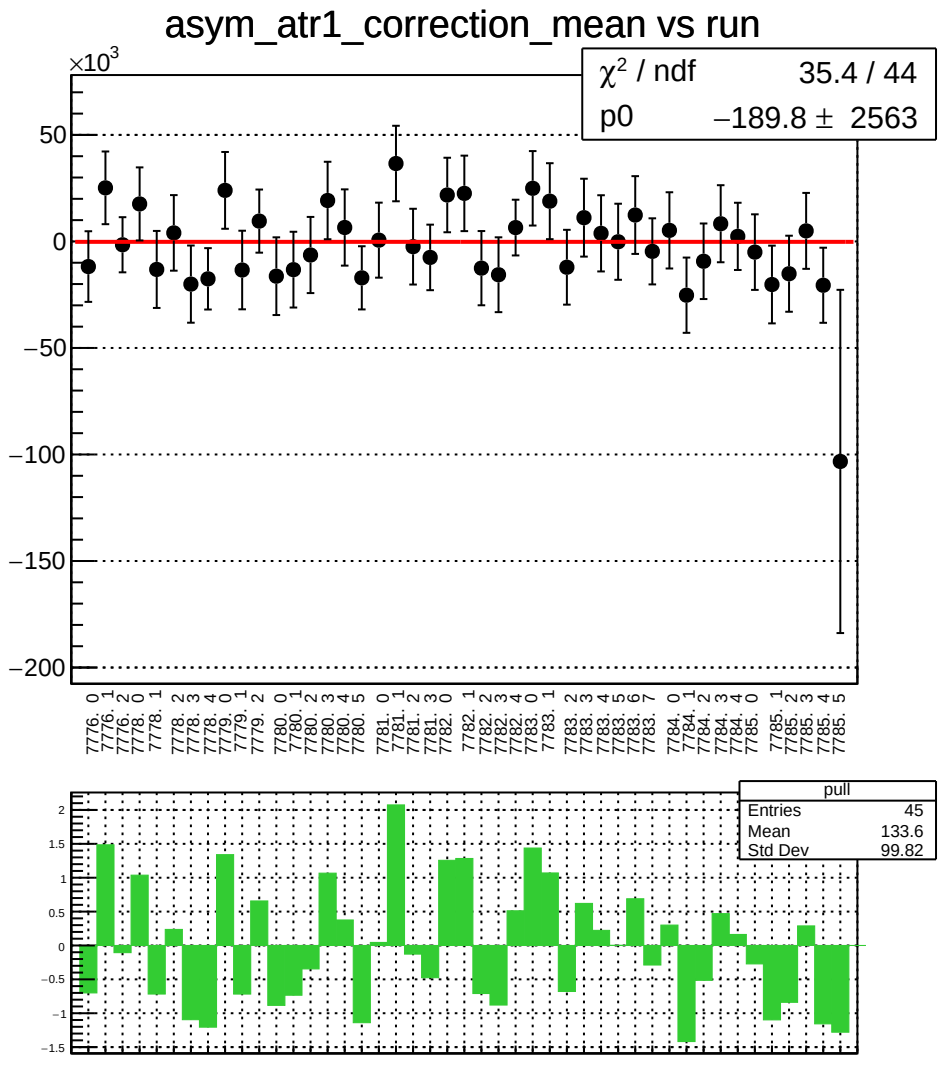

pull1D
Entries 45
Mean 0.01319
Std Dev 0.8959
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

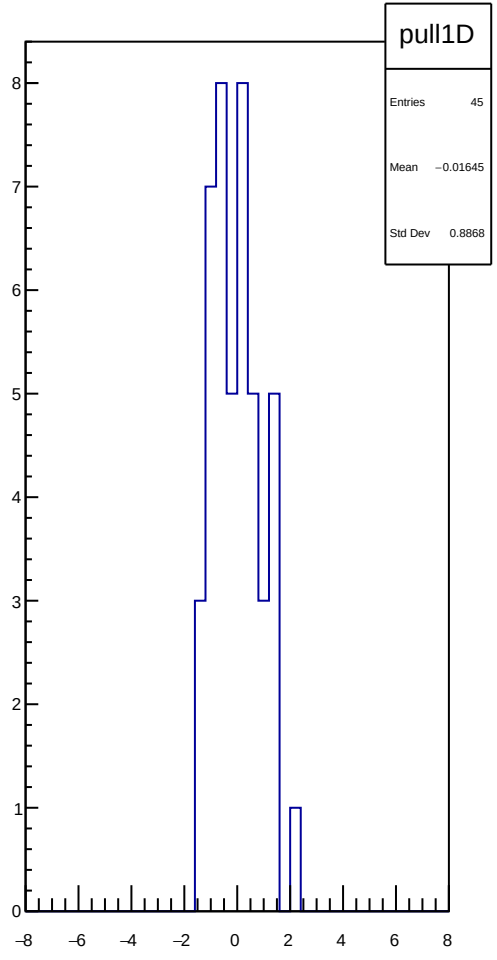

asym_atl2_rms vs run
χ² / ndf 400.2 / 44
p0 8782 ± 9.46
9500
9000
8500
8000
7500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

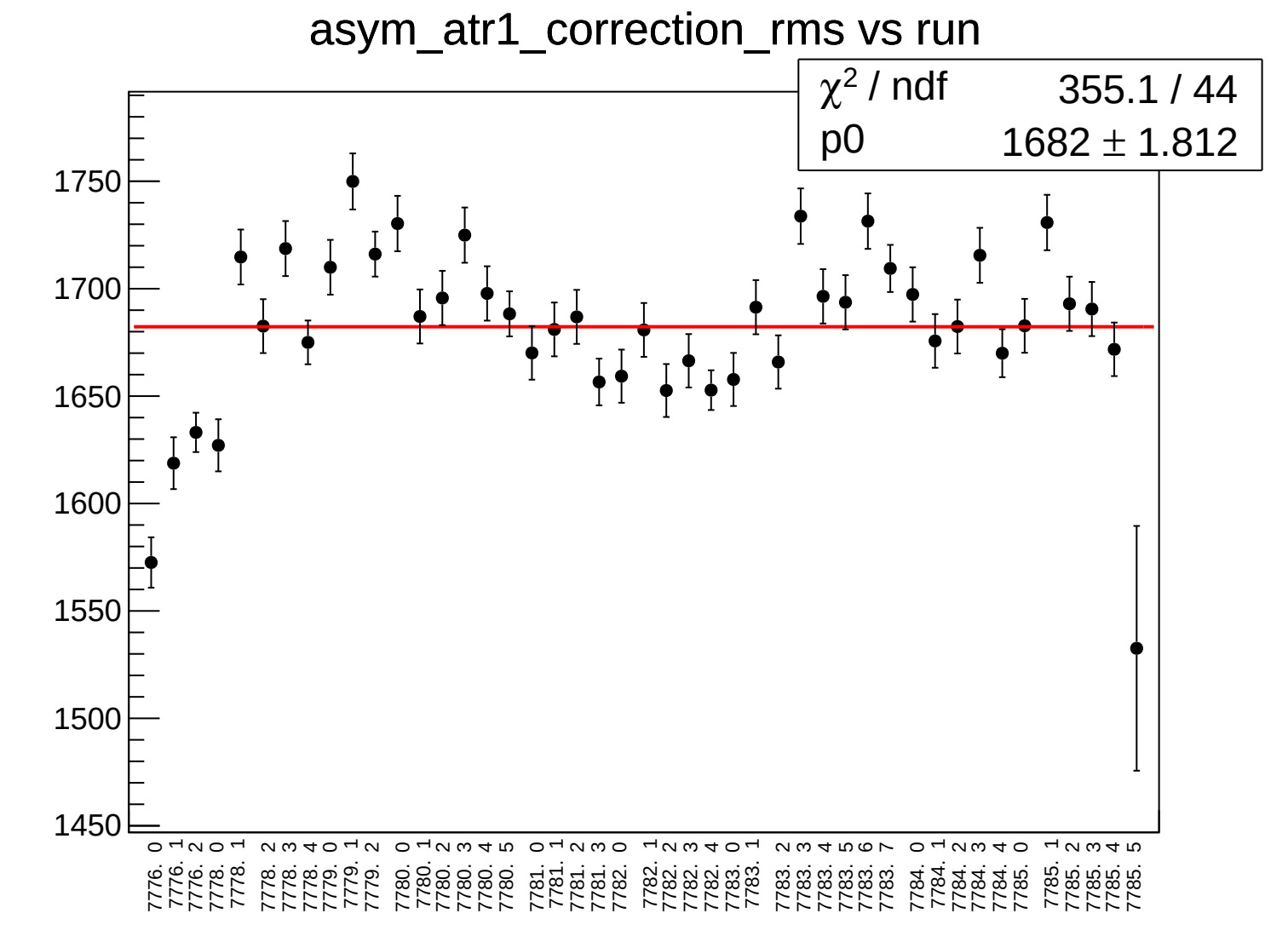

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 24.05 / 44
p0 9186 ± 4204
pull
Entries 45
Mean 40.13
Std Dev 7.891

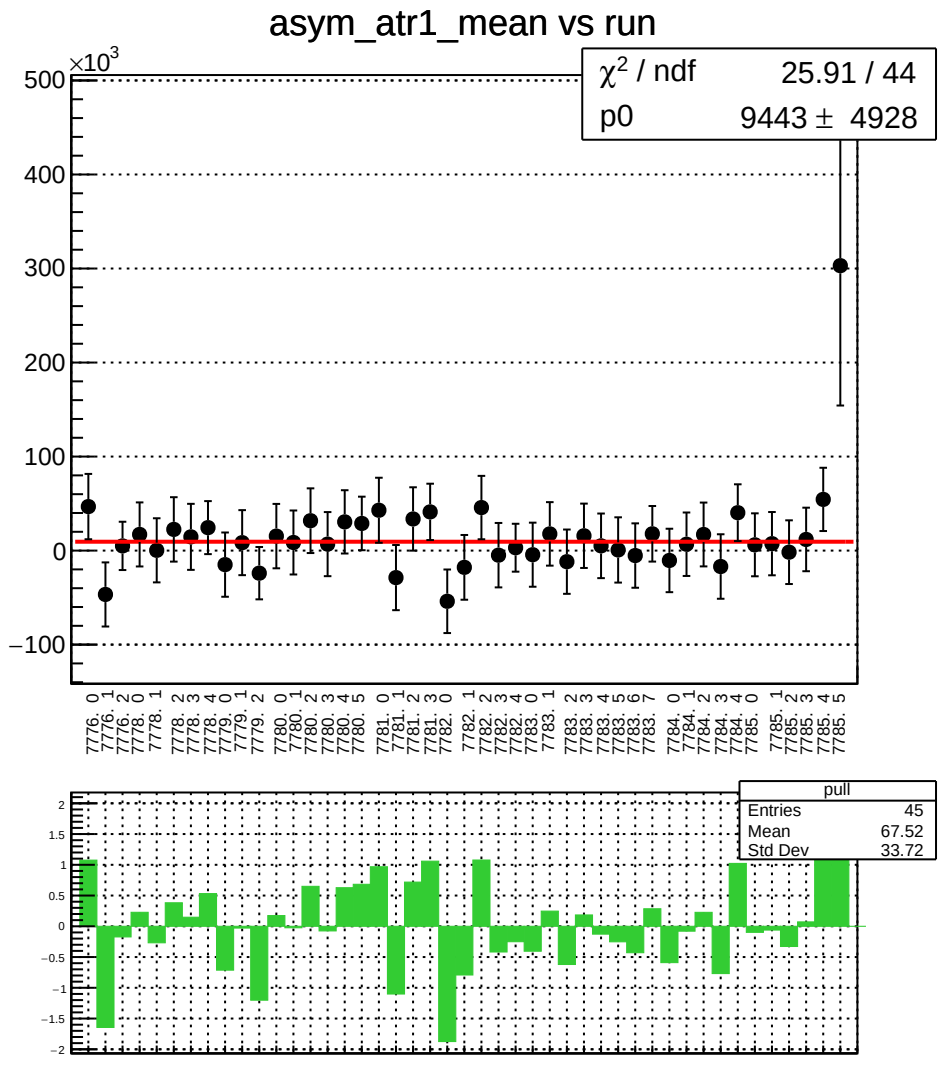

pull1D
Entries 45
Mean 0.02422
Std Dev 0.7307

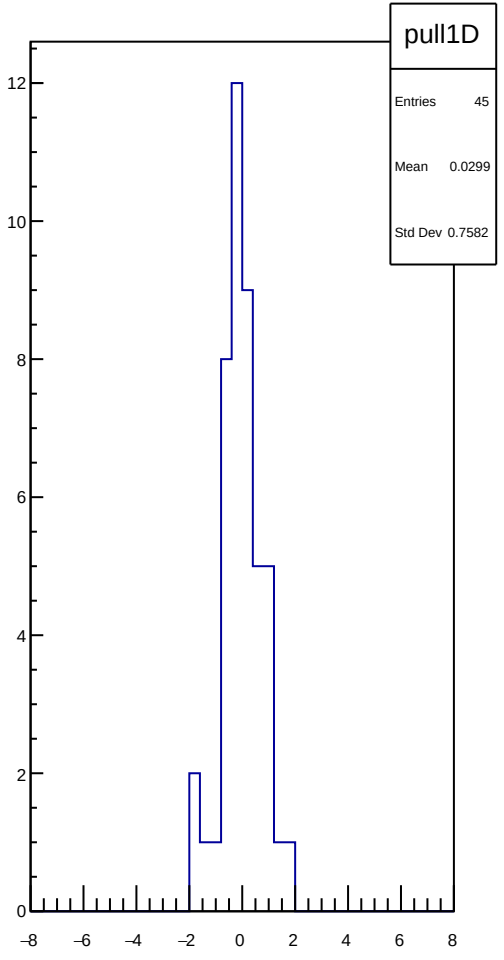

dit_asym_atr1_rms vs run
χ² / ndf 75.3 / 44
p0 2760 ± 2.973
2900
2800
2700
2600
2500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

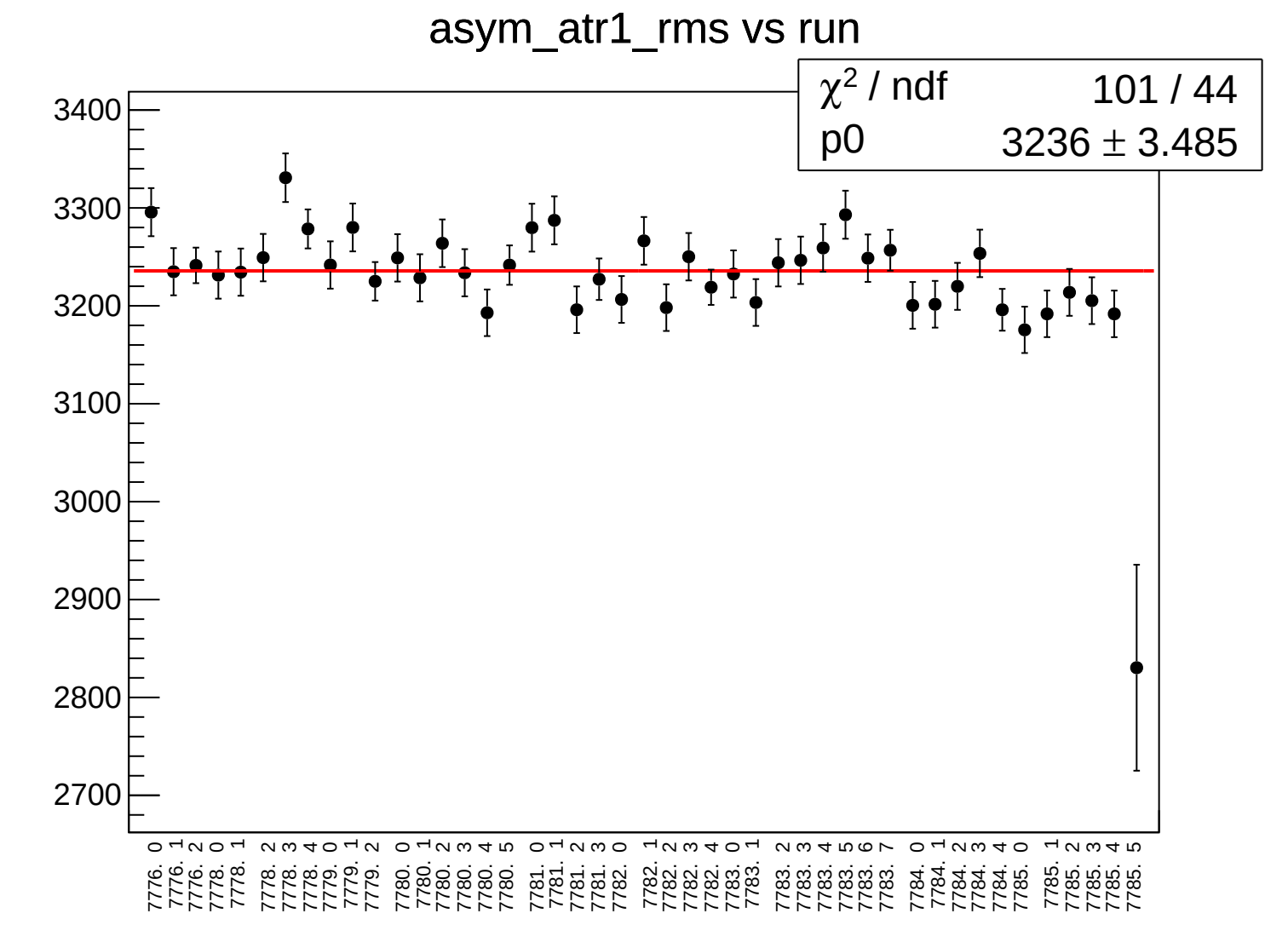

asym_atr1_correction_mean vs run
×10^3
χ² / ndf 35.4 / 44
p0 −189.8 ± 2563
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 133.6
Std Dev 99.82
2
1.5
1
0.5
0
−0.5
−1
−1.5

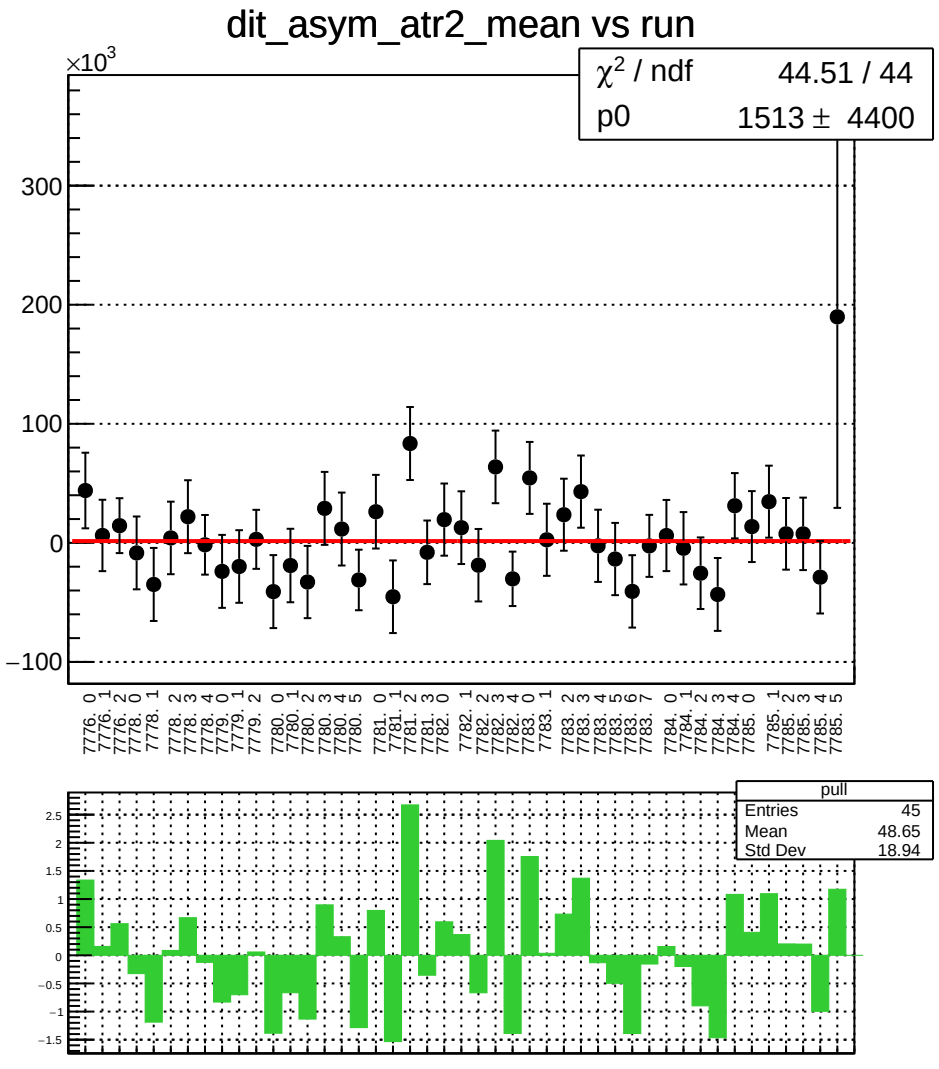

pull1D
Entries 45
Mean −0.01645
Std Dev 0.8868
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

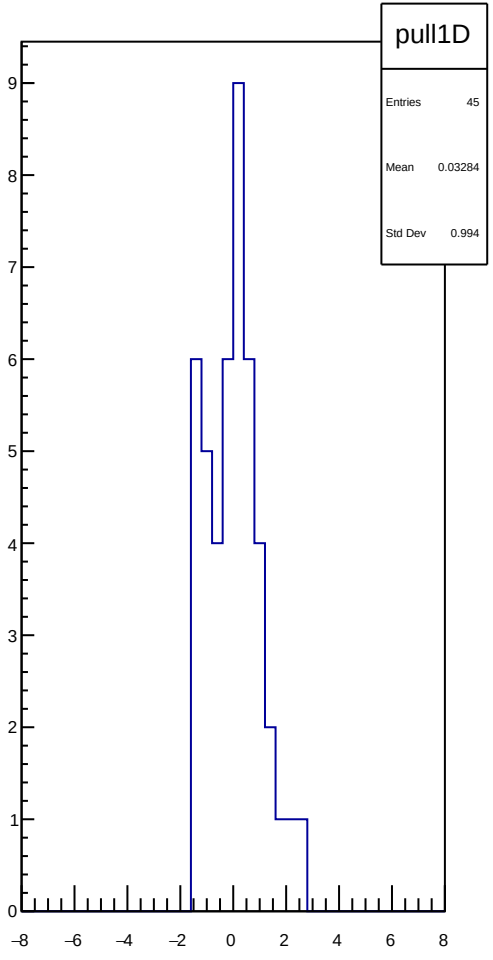

asym_atr1_correction_rms vs run
χ² / ndf 355.1 / 44
p0 1682 ± 1.812
1750
1700
1650
1600
1550
1500
1450
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

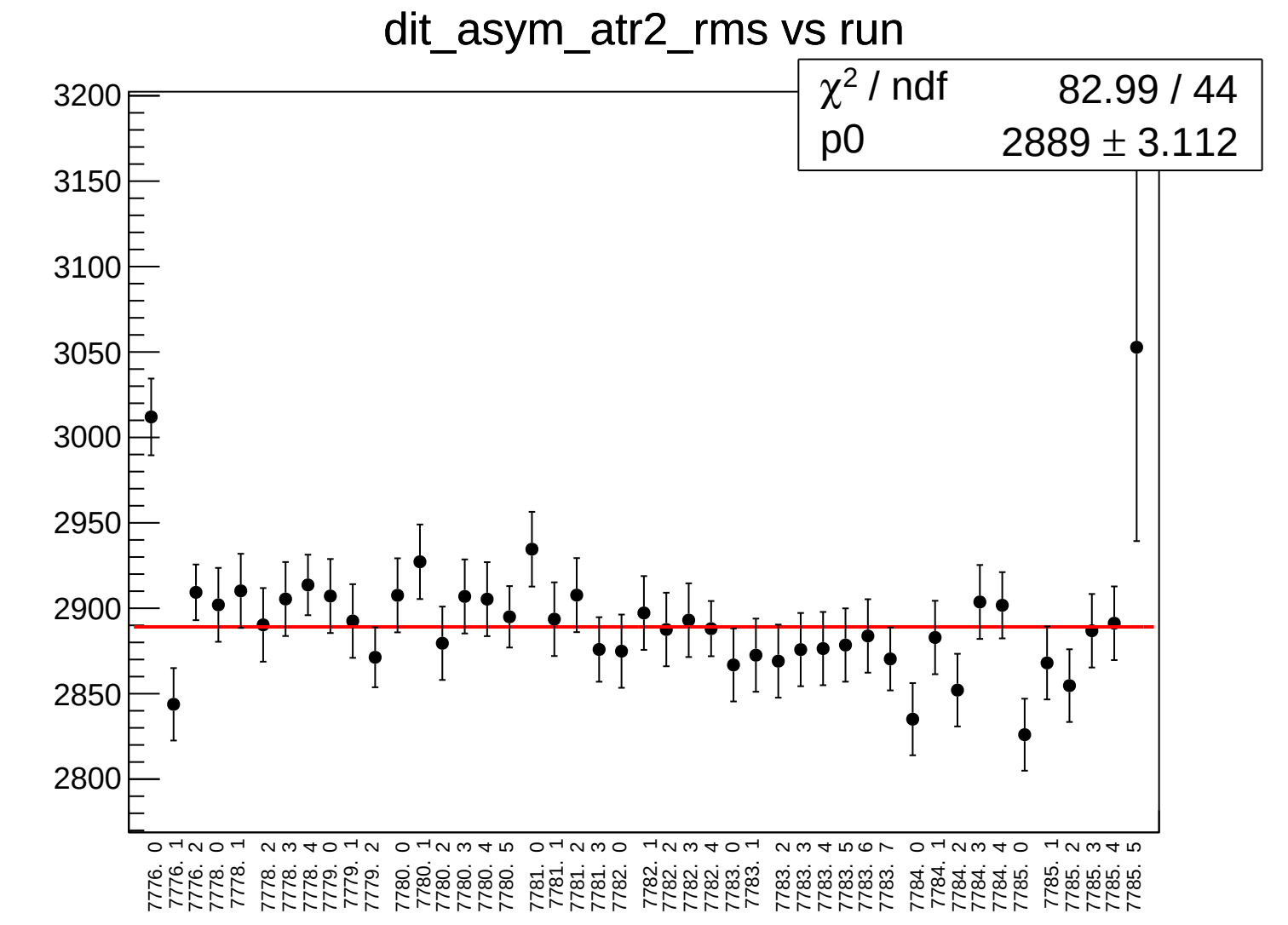

asym_atr1_mean vs run
×10^3
χ^2 / ndf 25.91 / 44
p0 9443 ± 4928
pull
Entries 45
Mean 67.52
Std Dev 33.72

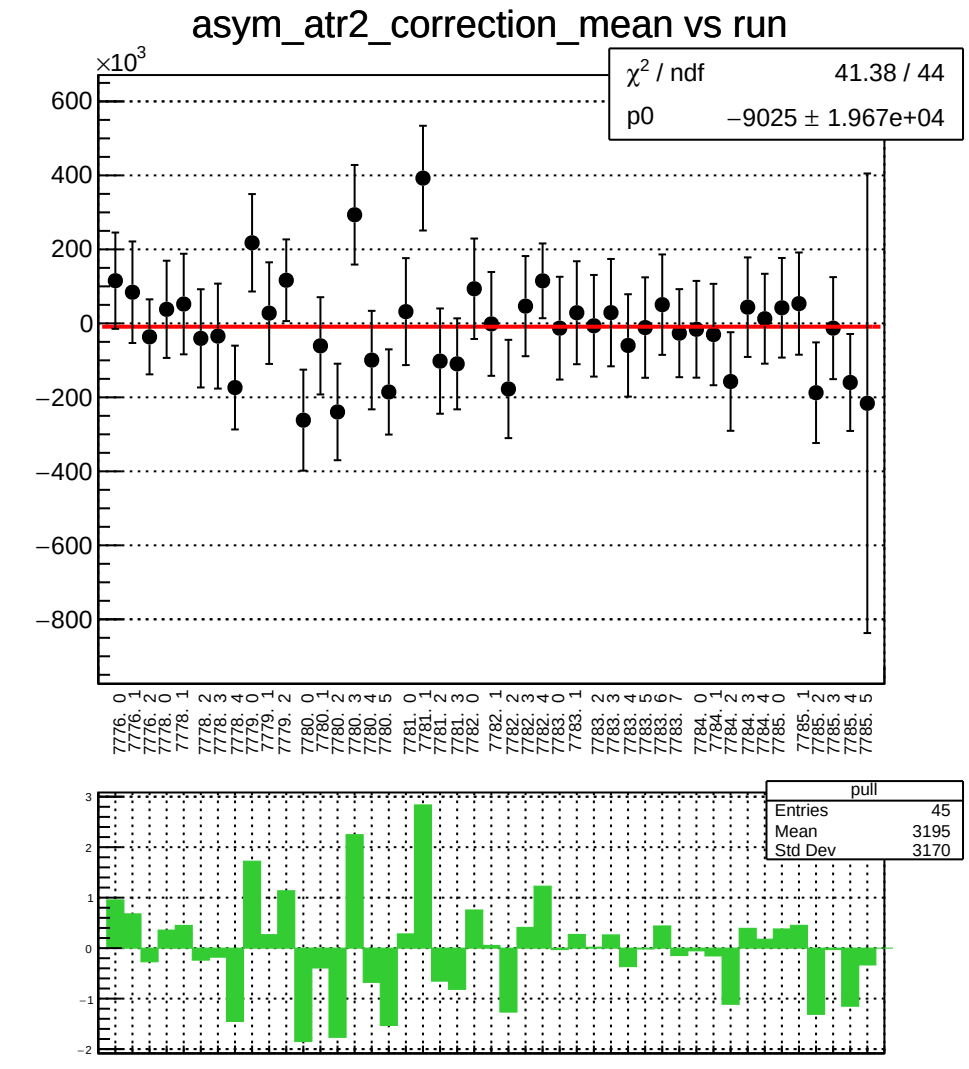

pull1D
Entries 45
Mean 0.0299
Std Dev 0.7582

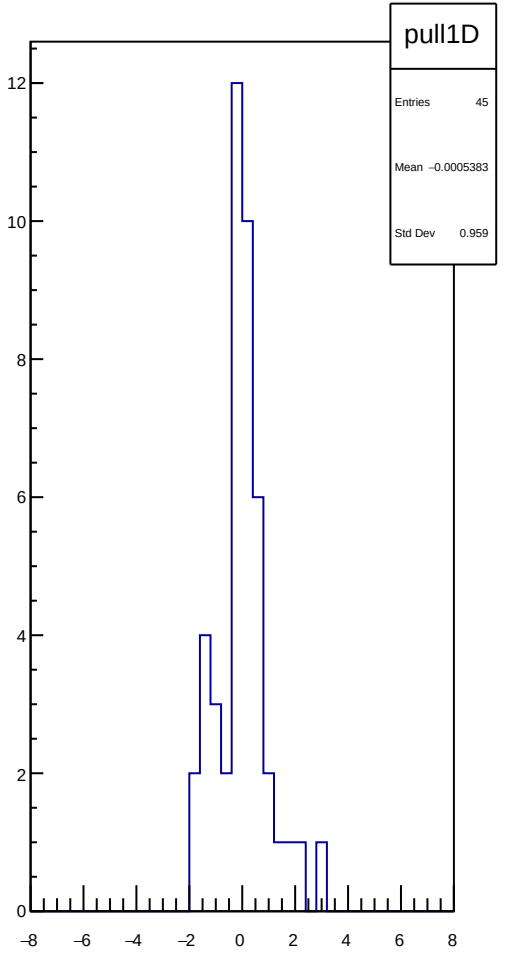

asym_atr1_rms vs run
χ² / ndf 101 / 44
p0 3236 ± 3.485
3400
3300
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

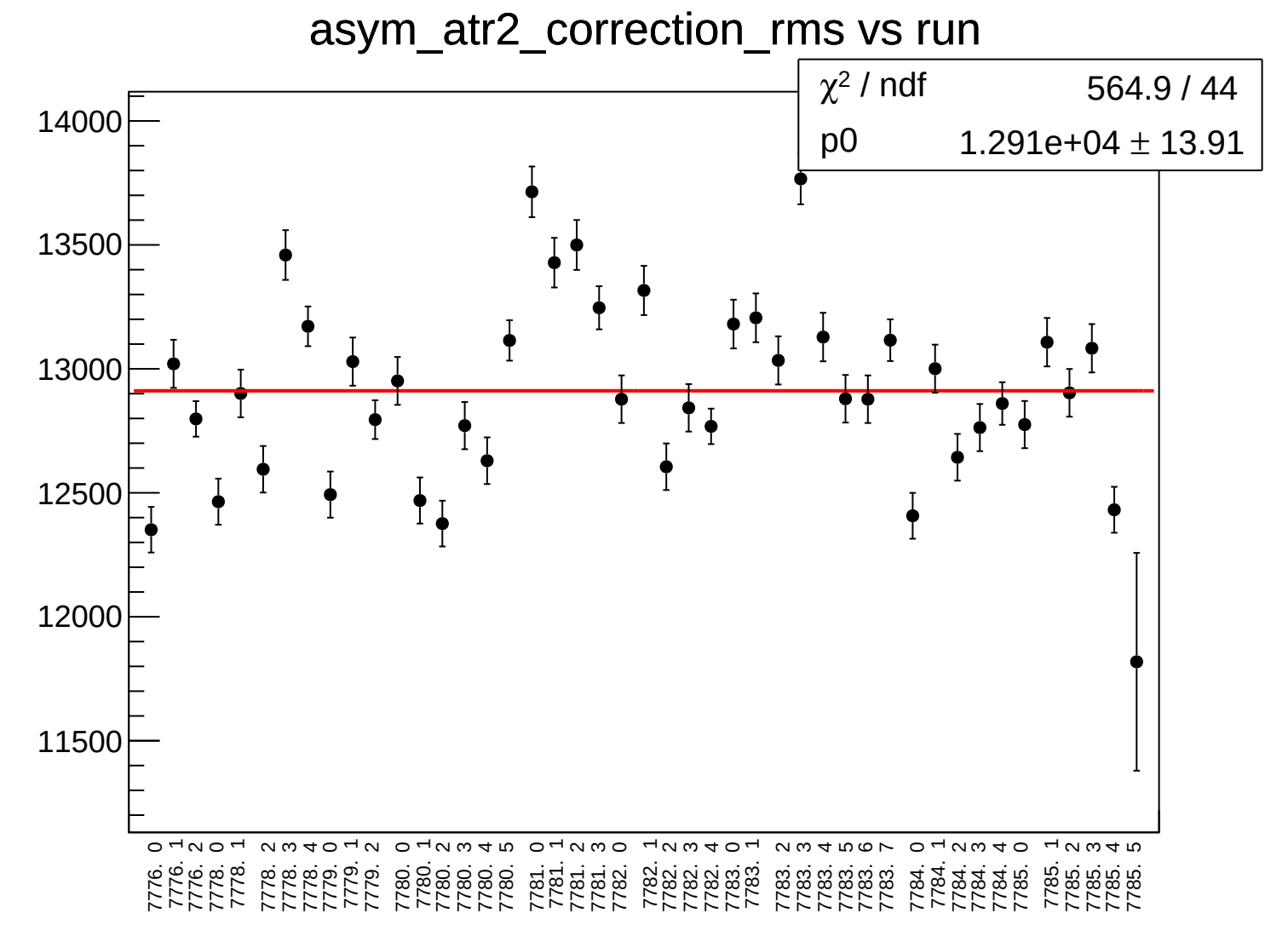

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 44.51 / 44
p0 1513 ± 4400
300
200
100
0
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 48.65
Std Dev 18.94
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

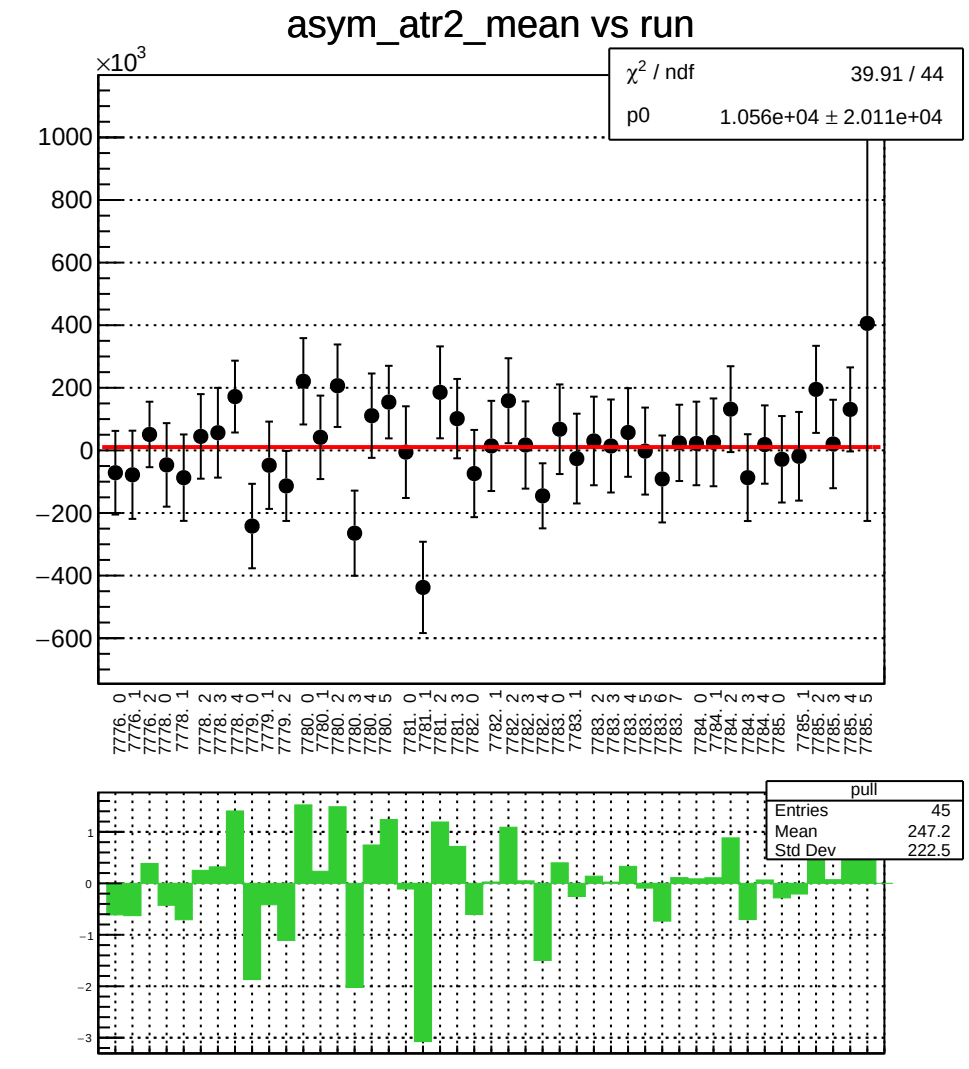

pull1D
Entries 45
Mean 0.03284
Std Dev 0.994
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

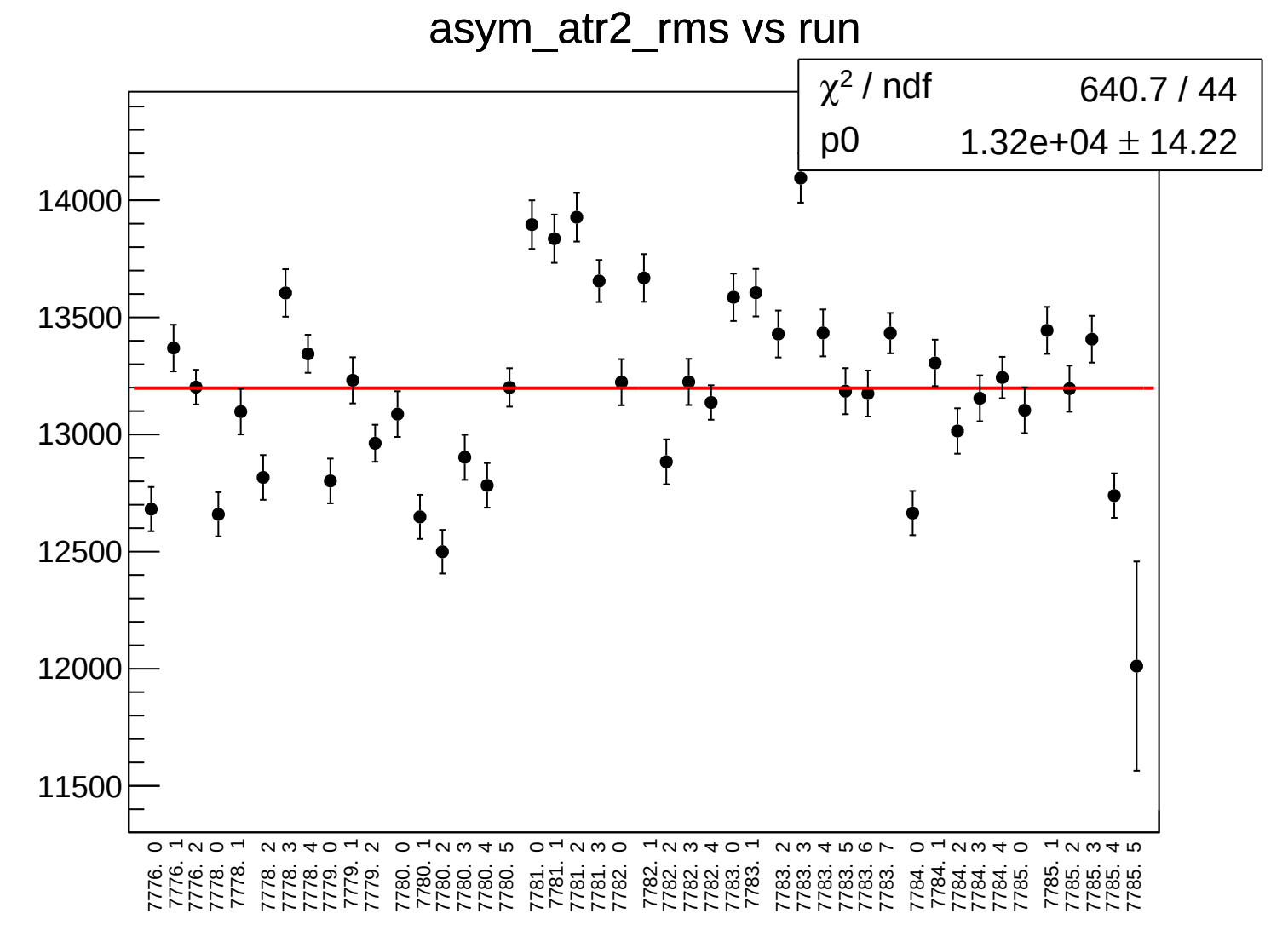

dit_asym_atr2_rms vs run
χ² / ndf 82.99 / 44
p0 2889 ± 3.112
3200
3150
3100
3050
3000
2950
2900
2850
2800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

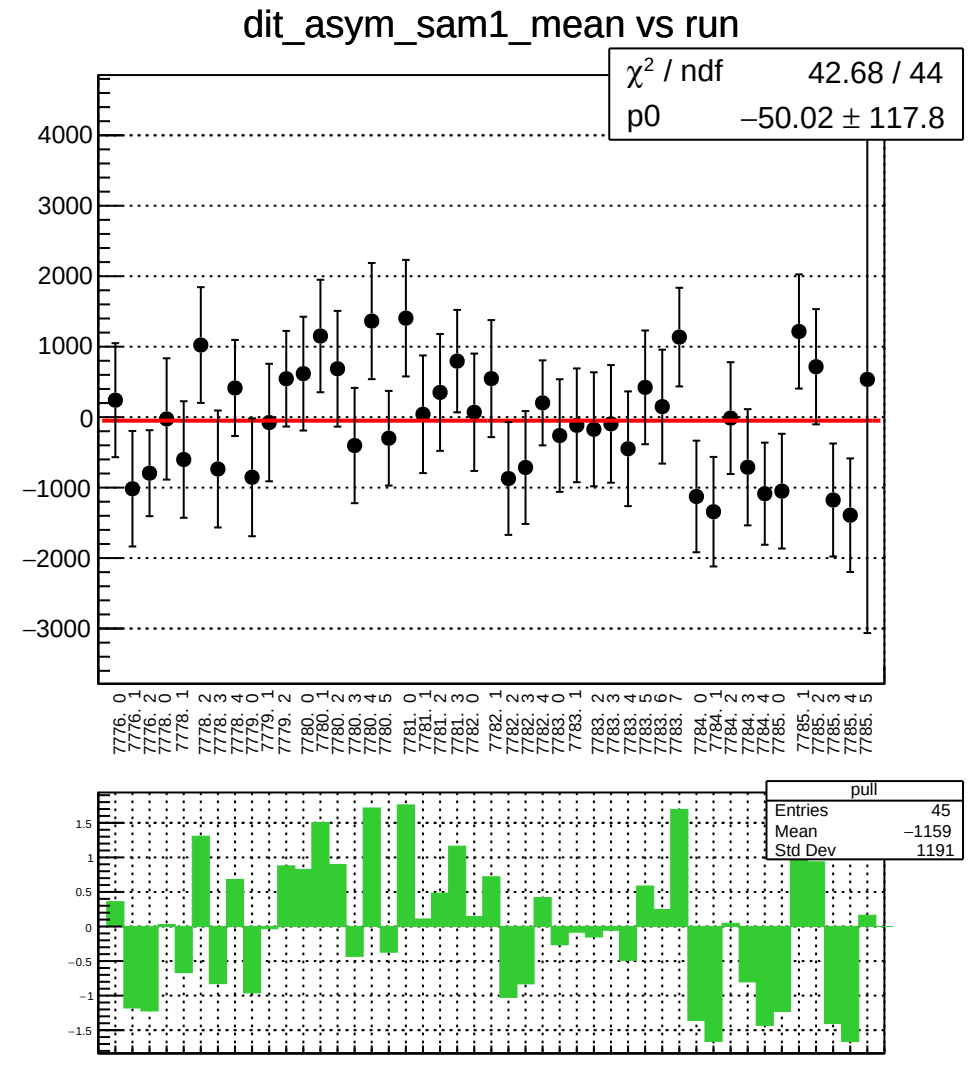

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 41.38 / 44
p0 −9025 ± 1.967e+04
600
400
200
0
−200
−400
−600
−800
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 3195
Std Dev 3170
3
2
1
0
−1
−2

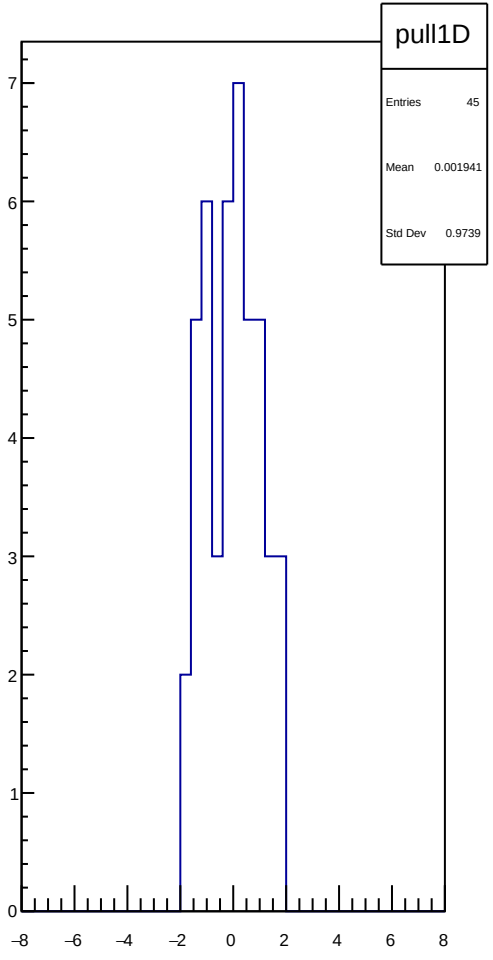

pull1D
Entries 45
Mean −0.0005383
Std Dev 0.959
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

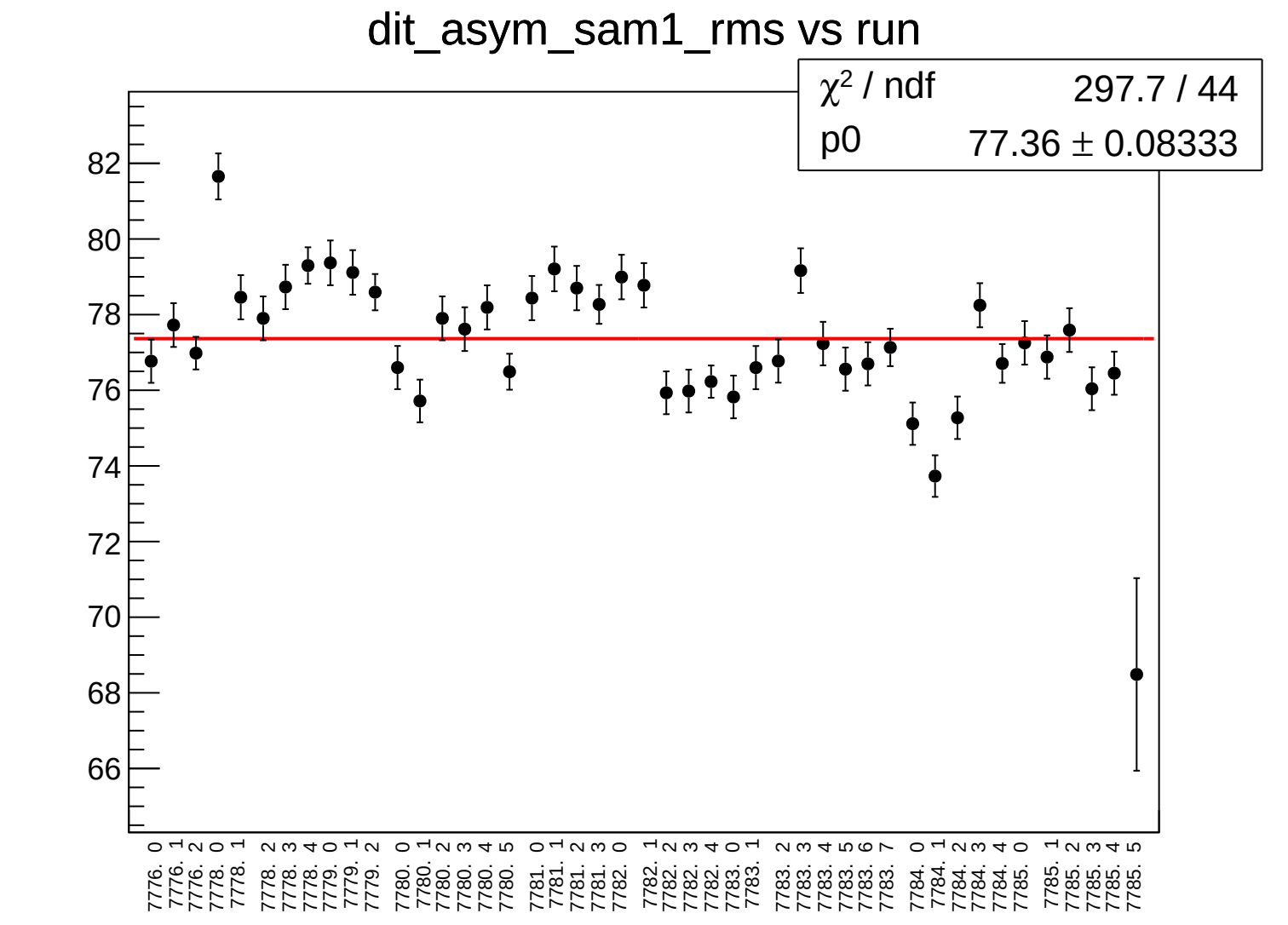

asym_atr2_correction_rms vs run
χ² / ndf 564.9 / 44
p0 1.291e+04 ± 13.91
14000
13500
13000
12500
12000
11500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

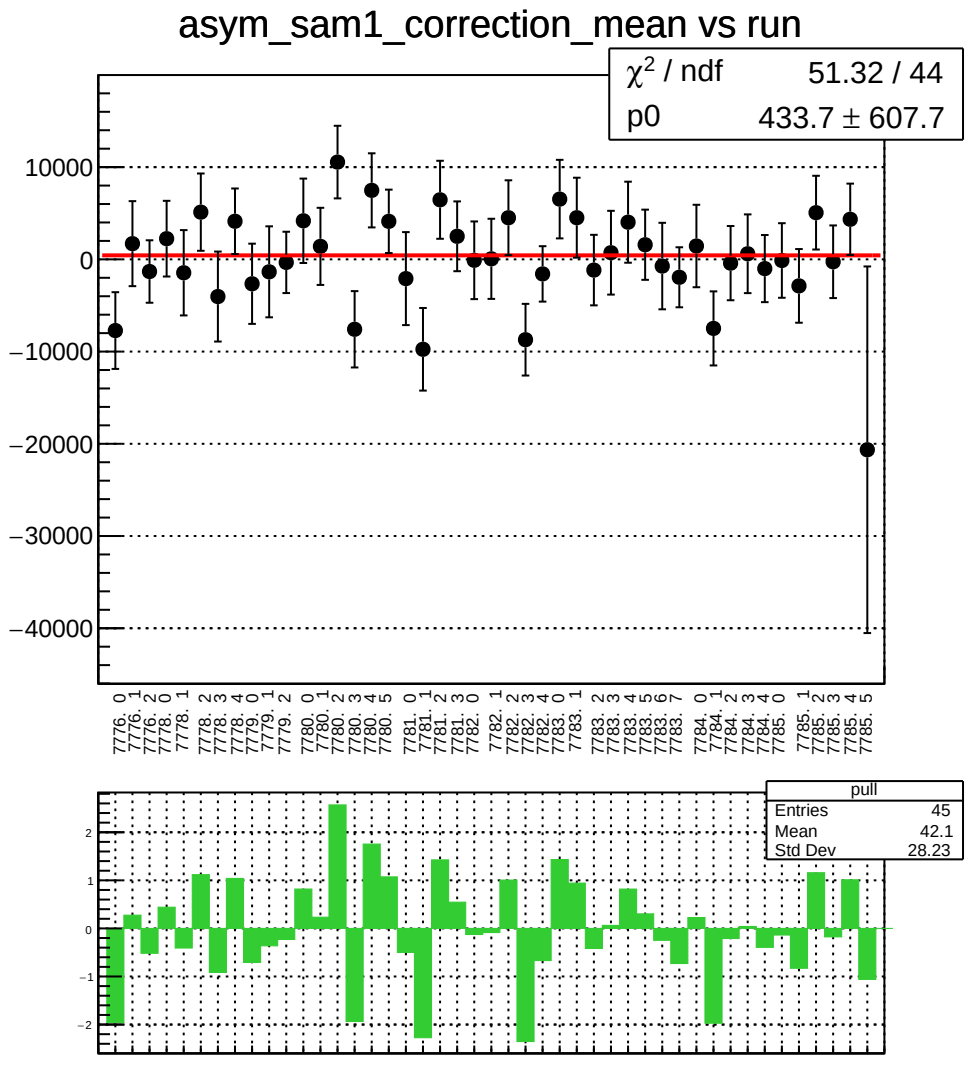

asym_atr2_mean vs run
×10^3
χ² / ndf 39.91 / 44
p0 1.056e+04 ± 2.011e+04
1000
800
600
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 247.2
Std Dev 222.5
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.008239
Std Dev 0.9417
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

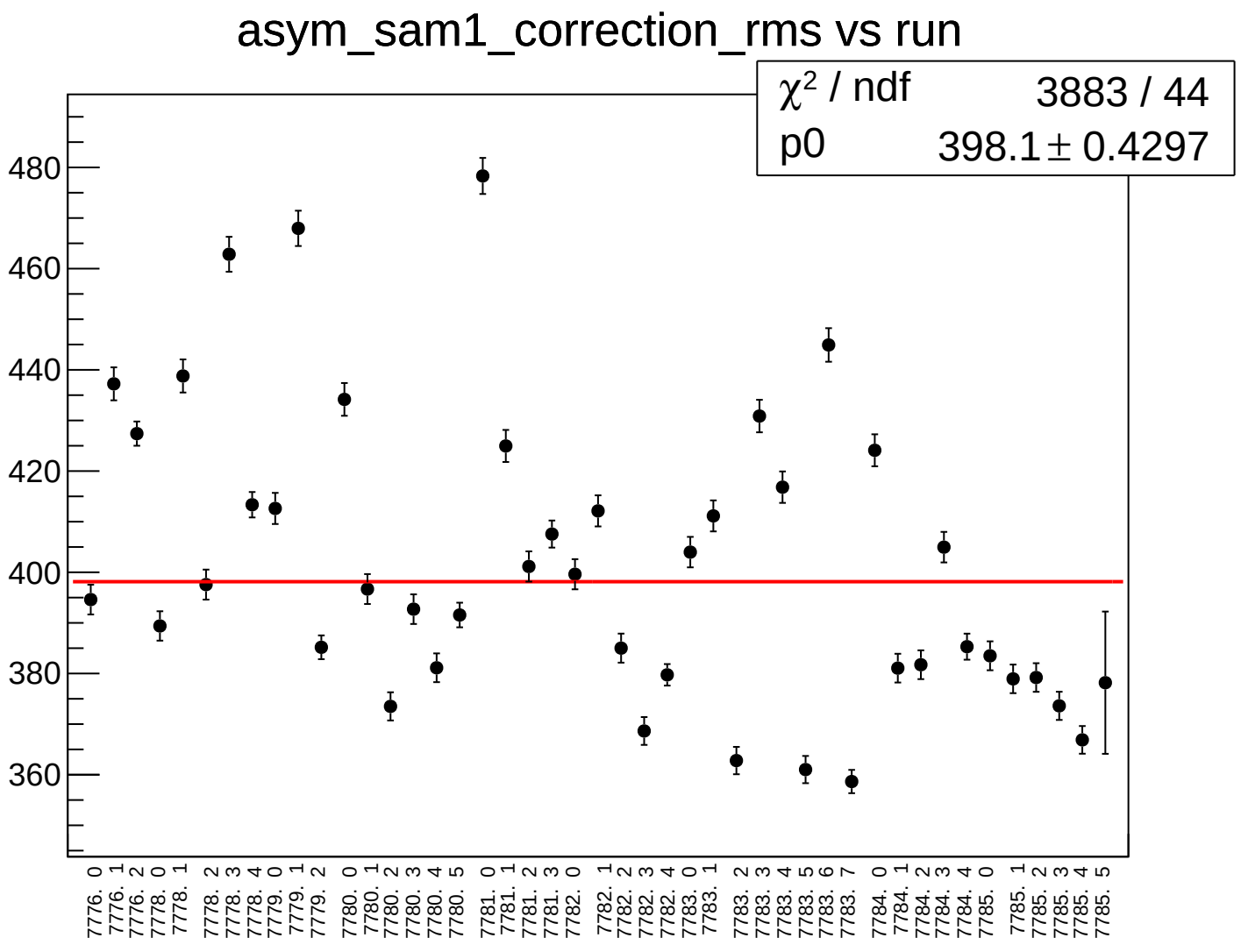

asym_atr2_rms vs run
χ² / ndf 640.7 / 44
p0 1.32e+04 ± 14.22
14000
13500
13000
12500
12000
11500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

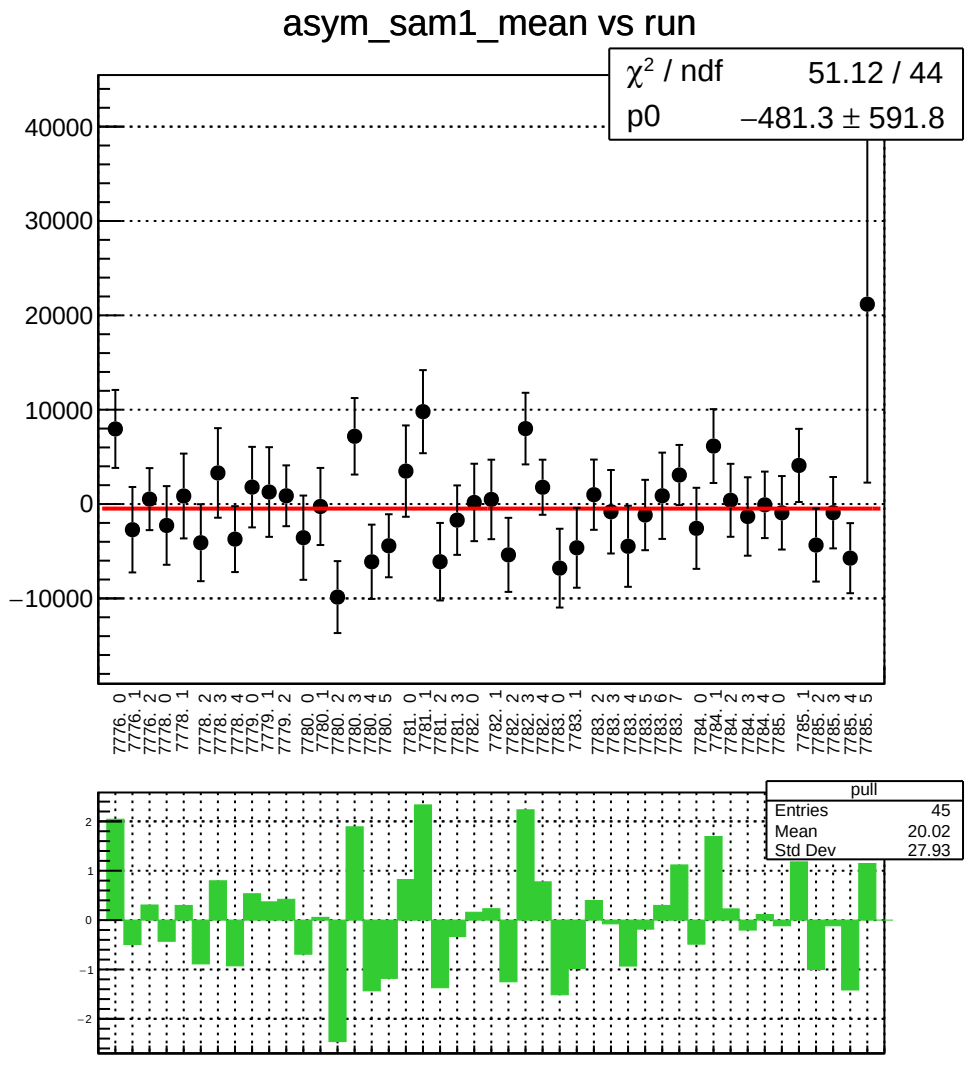

dit_asym_sam1_mean vs run
χ² / ndf 42.68 / 44
p0 −50.02 ± 117.8
4000
3000
2000
1000
0
−1000
−2000
−3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −1159
Std Dev 1191
1.5
1
0.5
0
−0.5
−1
−1.5

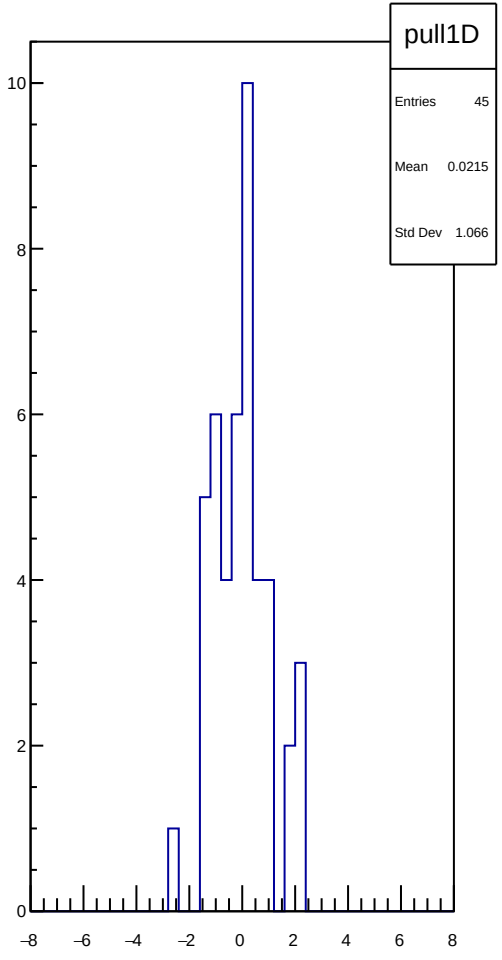

pull1D
Entries 45
Mean 0.001941
Std Dev 0.9739
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

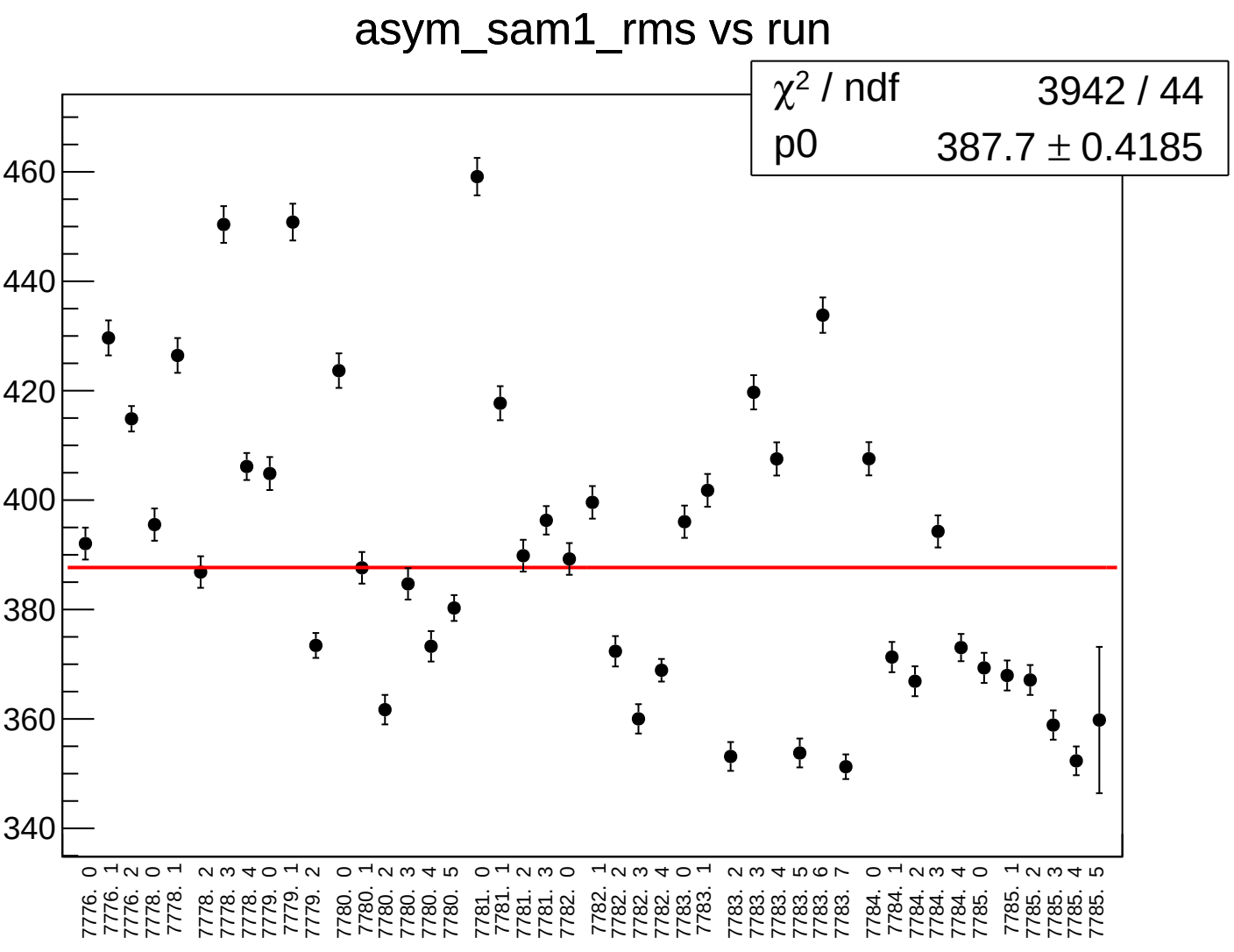

dit_asym_sam1_rms vs run
χ² / ndf 297.7 / 44
p0 77.36 ± 0.08333
82
80
78
76
74
72
70
68
66
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

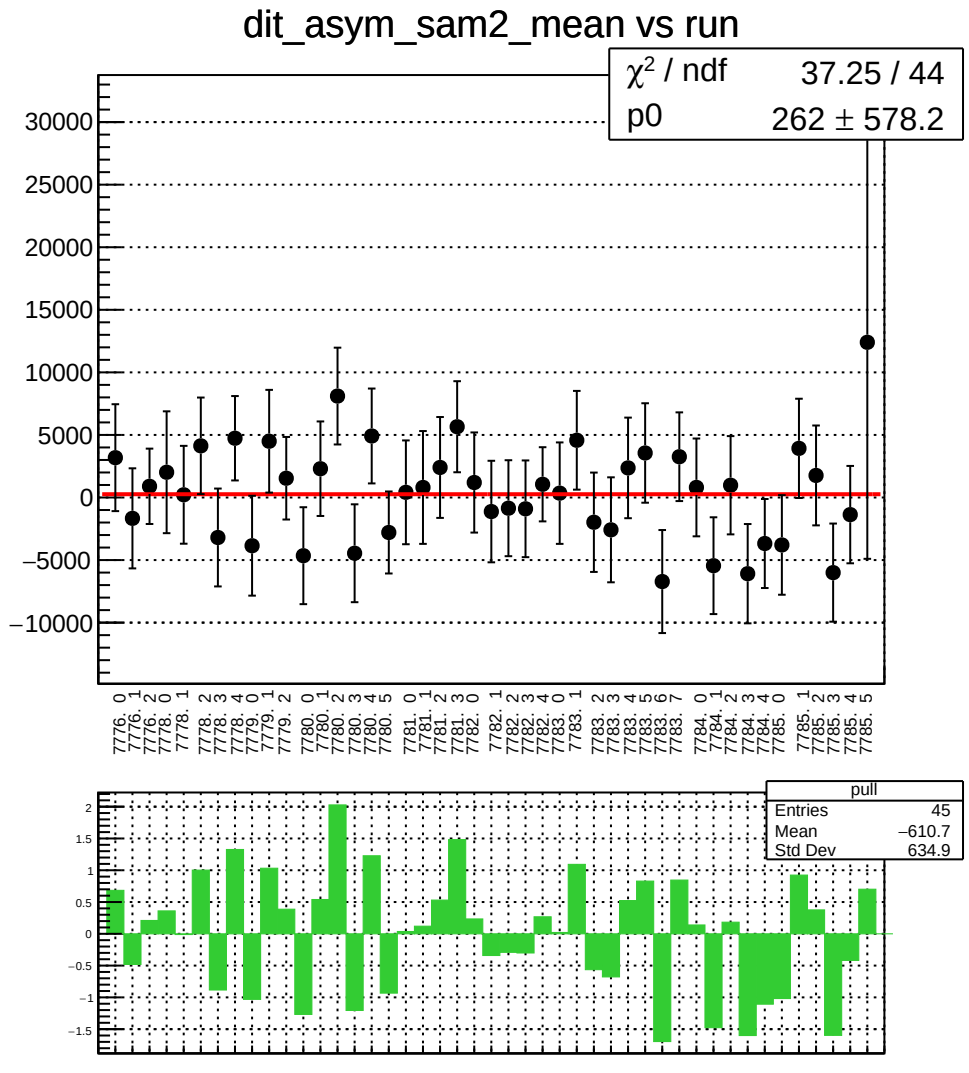

asym_sam1_correction_mean vs run
χ² / ndf 51.32 / 44
p0 433.7 ± 607.7
10000
0
−10000
−20000
−30000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 42.1
Std Dev 28.23
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02067
Std Dev 1.068
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 3883 / 44
p0 398.1 ± 0.4297
480
460
440
420
400
380
360
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


asym_sam1_mean vs run
χ² / ndf 51.12 / 44
p0 −481.3 ± 591.8
40000
30000
20000
10000
0
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 20.02
Std Dev 27.93
2
1
0
−1
−2


pull1D
Entries 45
Mean 0.0215
Std Dev 1.066
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_rms vs run
χ² / ndf 3942 / 44
p0 387.7 ± 0.4185
460
440
420
400
380
360
340
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


dit_asym_sam2_mean vs run
χ² / ndf 37.25 / 44
p0 262 ± 578.2
30000
25000
20000
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
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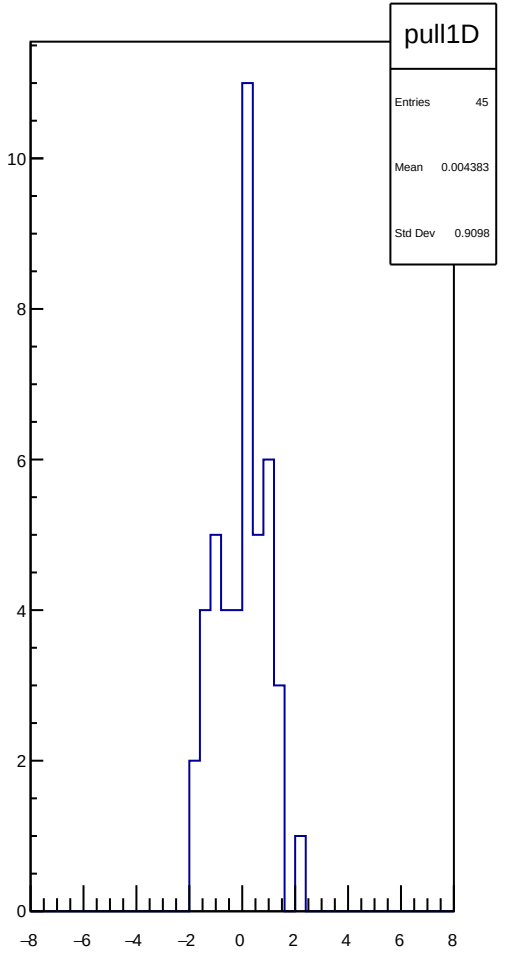
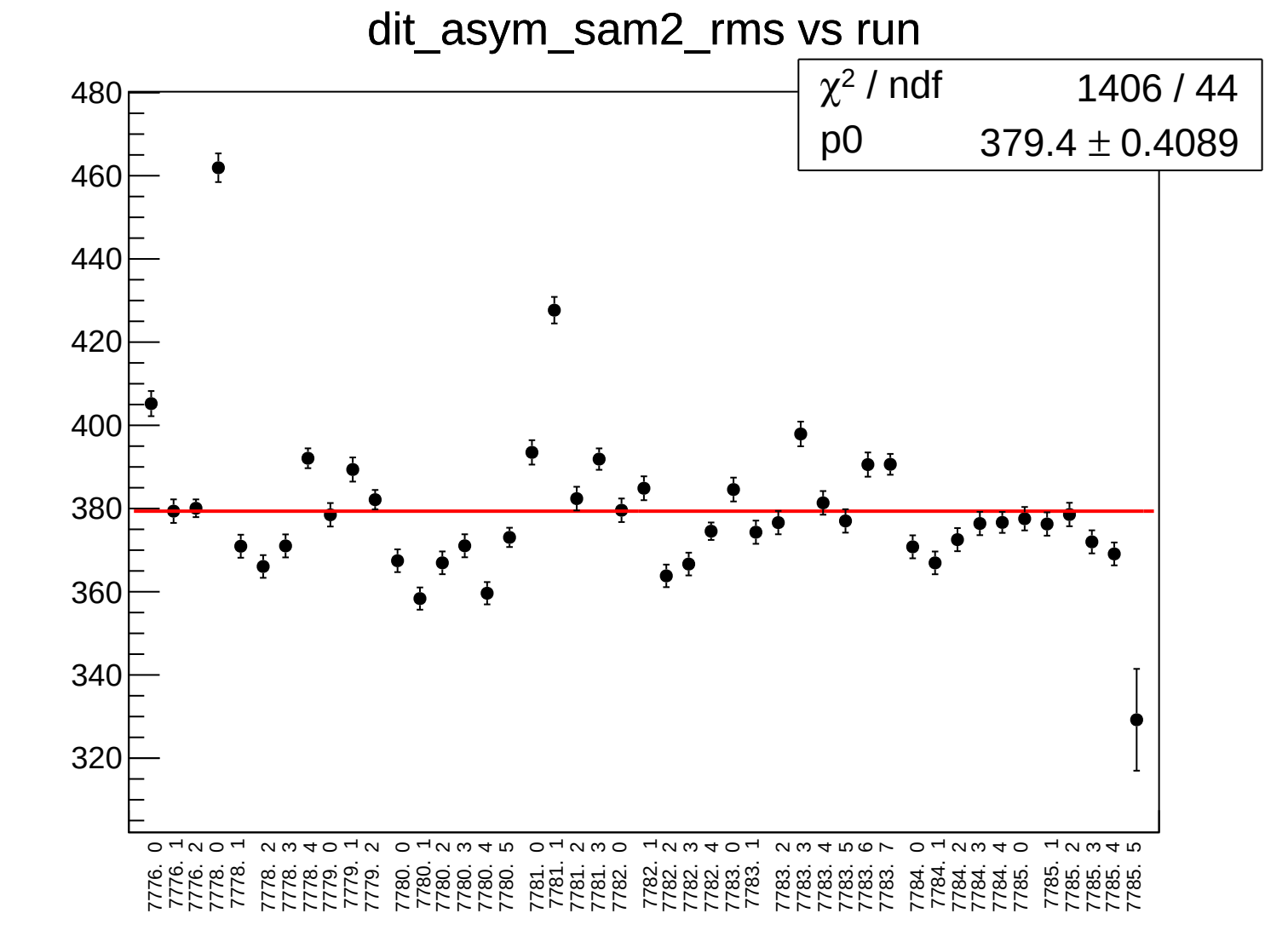
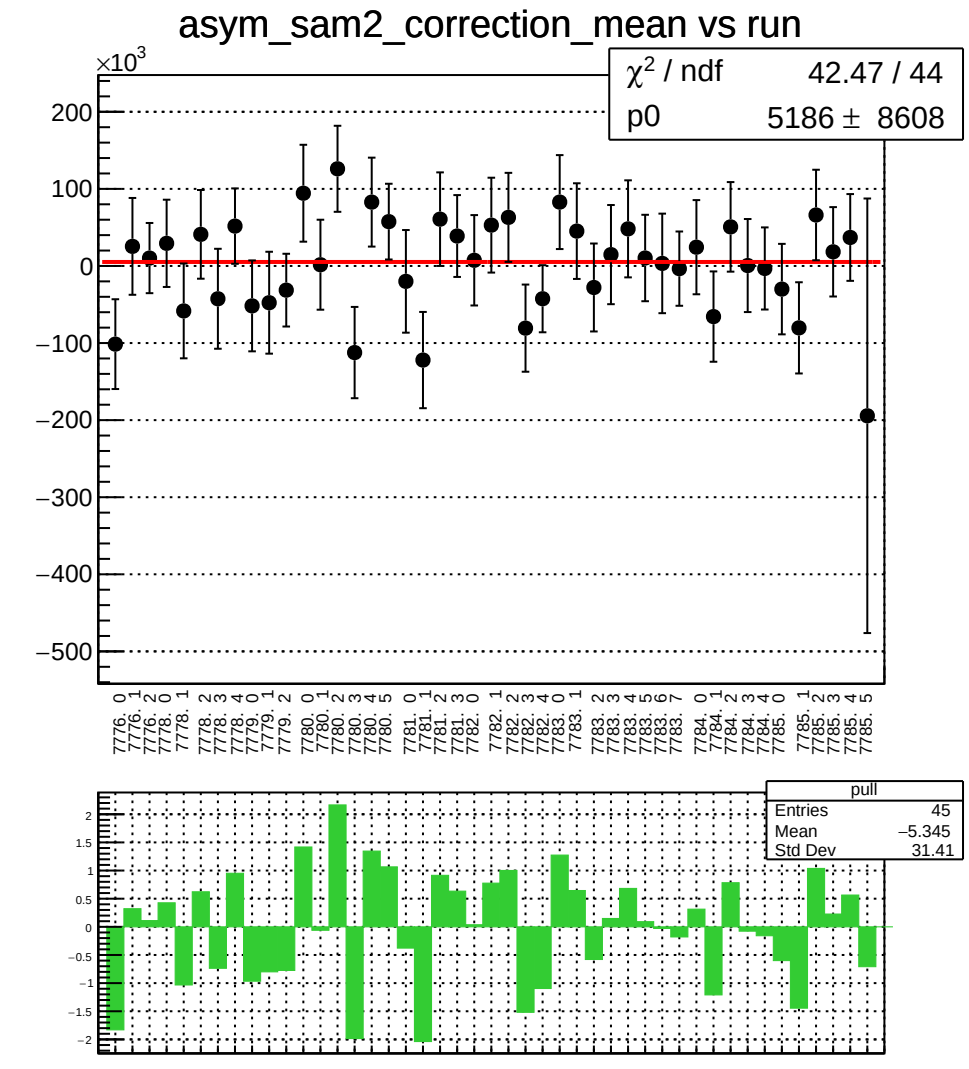
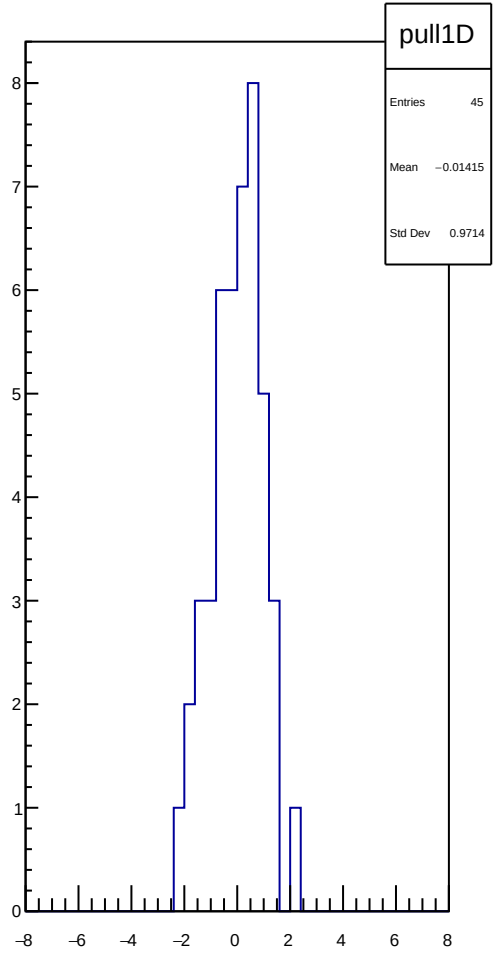
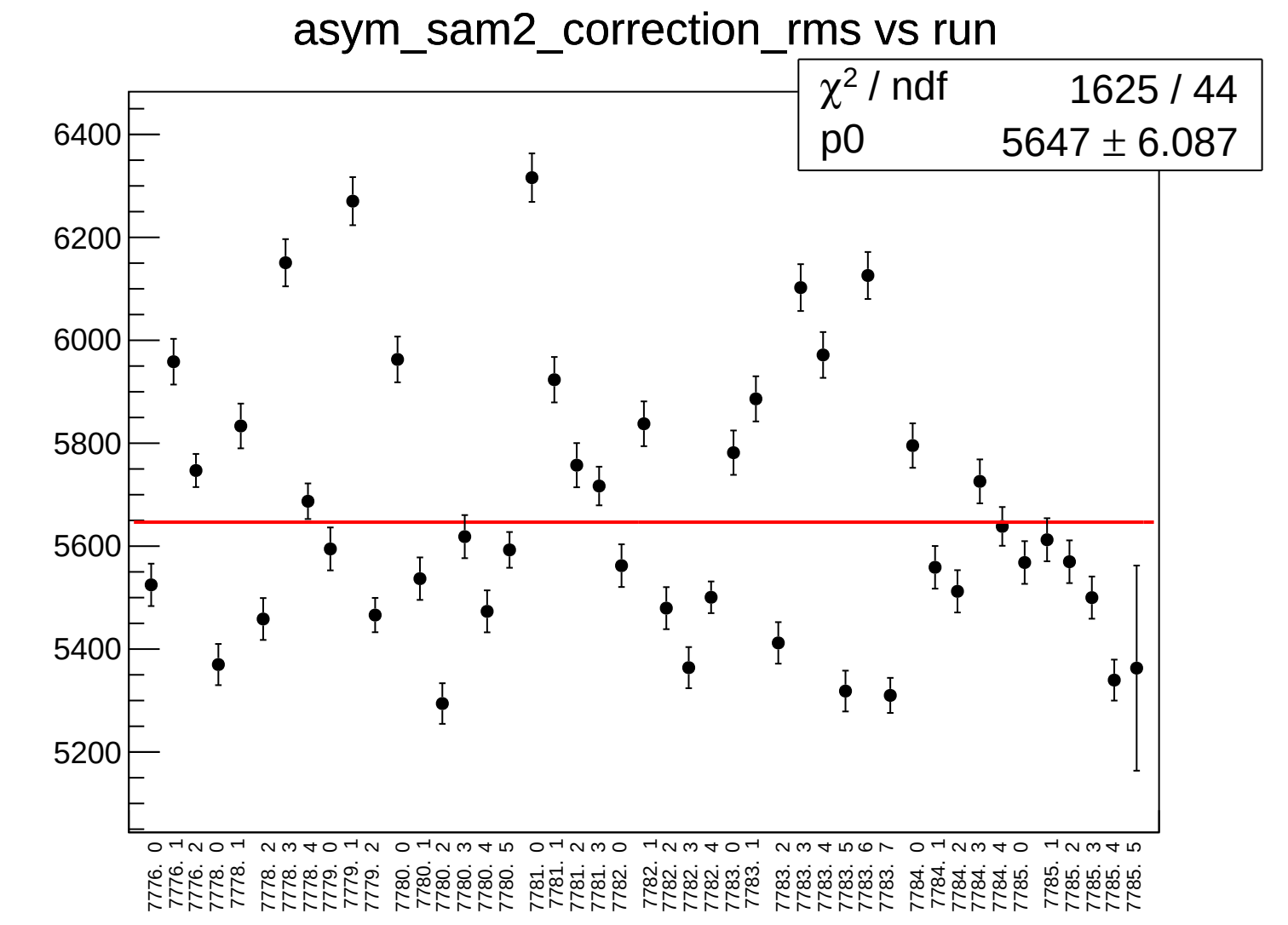
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −610.7
Std Dev 634.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

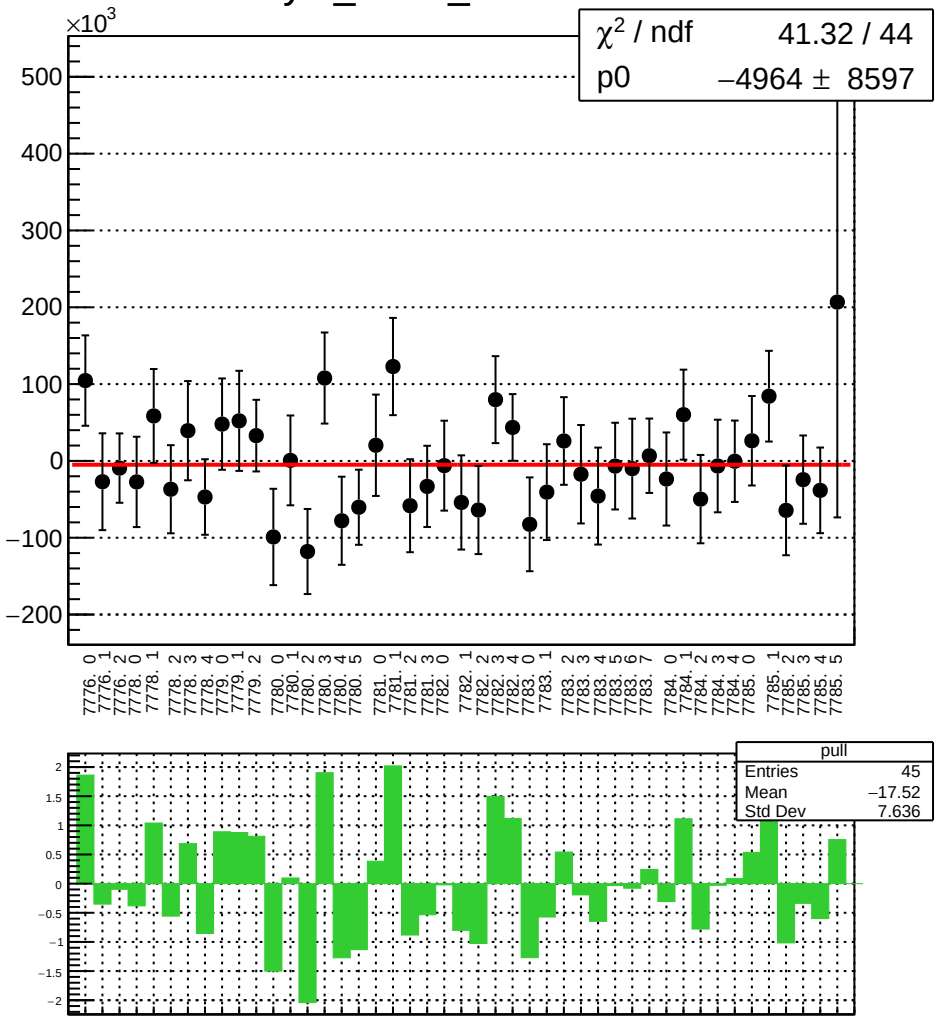

pull1D
Entries 45
Mean 0.004383
Std Dev 0.9098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

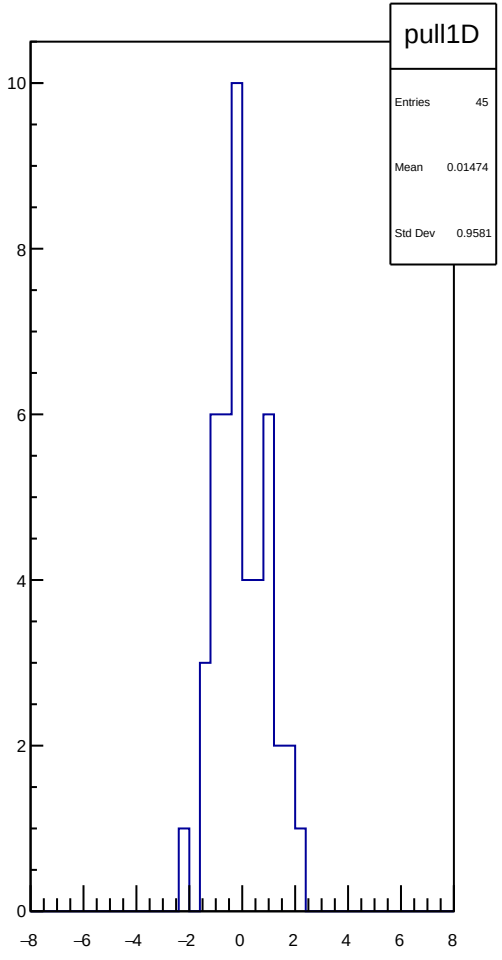

dit_asym_sam2_rms vs run
χ² / ndf 1406 / 44
p0 379.4 ± 0.4089
480
460
440
420
400
380
360
340
320
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

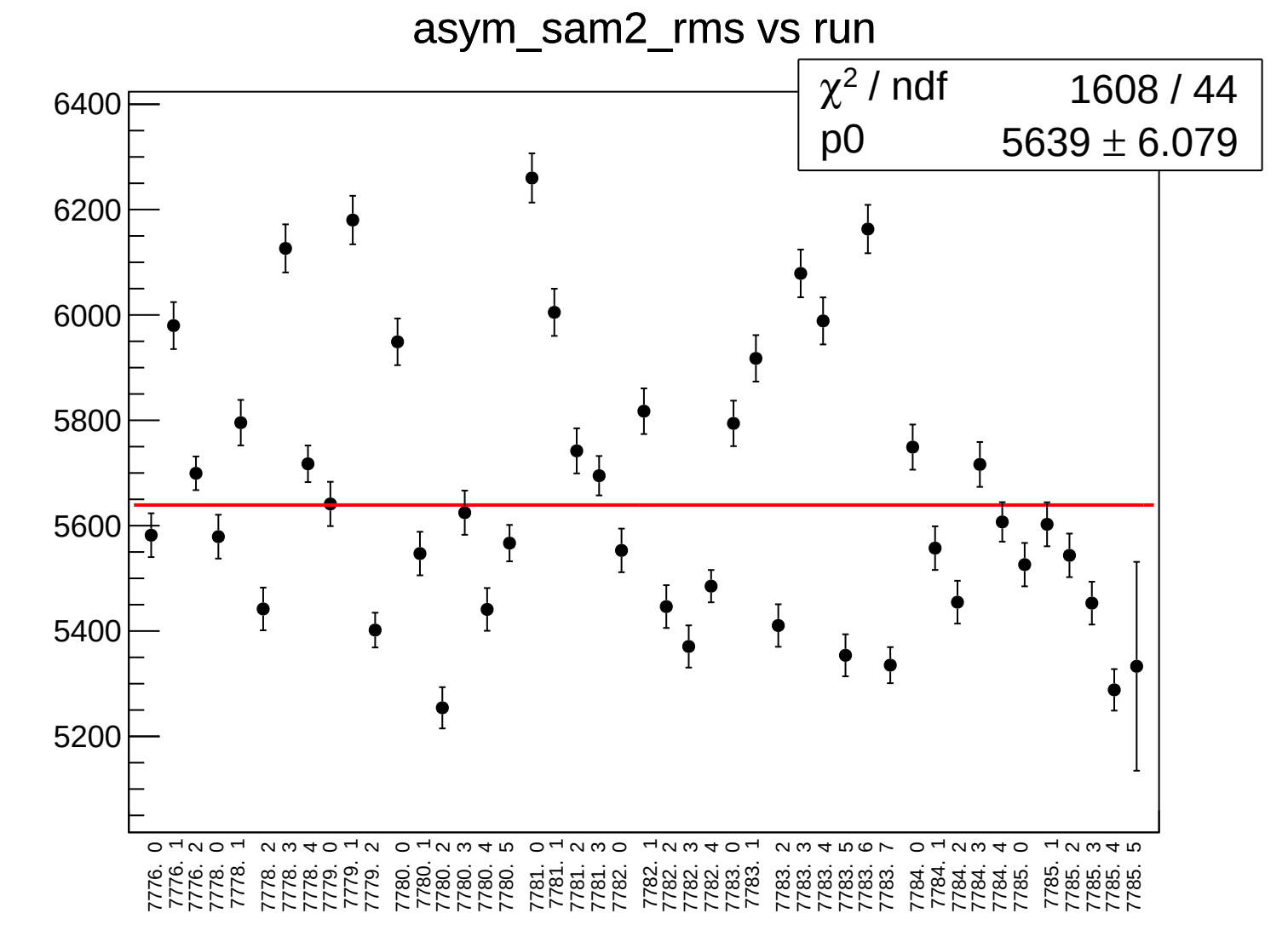

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 42.47 / 44
p0 5186 ± 8608
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −5.345
Std Dev 31.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean −0.01415
Std Dev 0.9714
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_correction_rms vs run
χ² / ndf 1625 / 44
p0 5647 ± 6.087
6400
6200
6000
5800
5600
5400
5200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


asym_sam2_mean vs run
×10^3
χ² / ndf 41.32 / 44
p0 −4964 ± 8597
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −17.52
Std Dev 7.636
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 45
Mean 0.01474
Std Dev 0.9581
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_rms vs run
χ² / ndf 1608 / 44
p0 5639 ± 6.079
6400
6200
6000
5800
5600
5400
5200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
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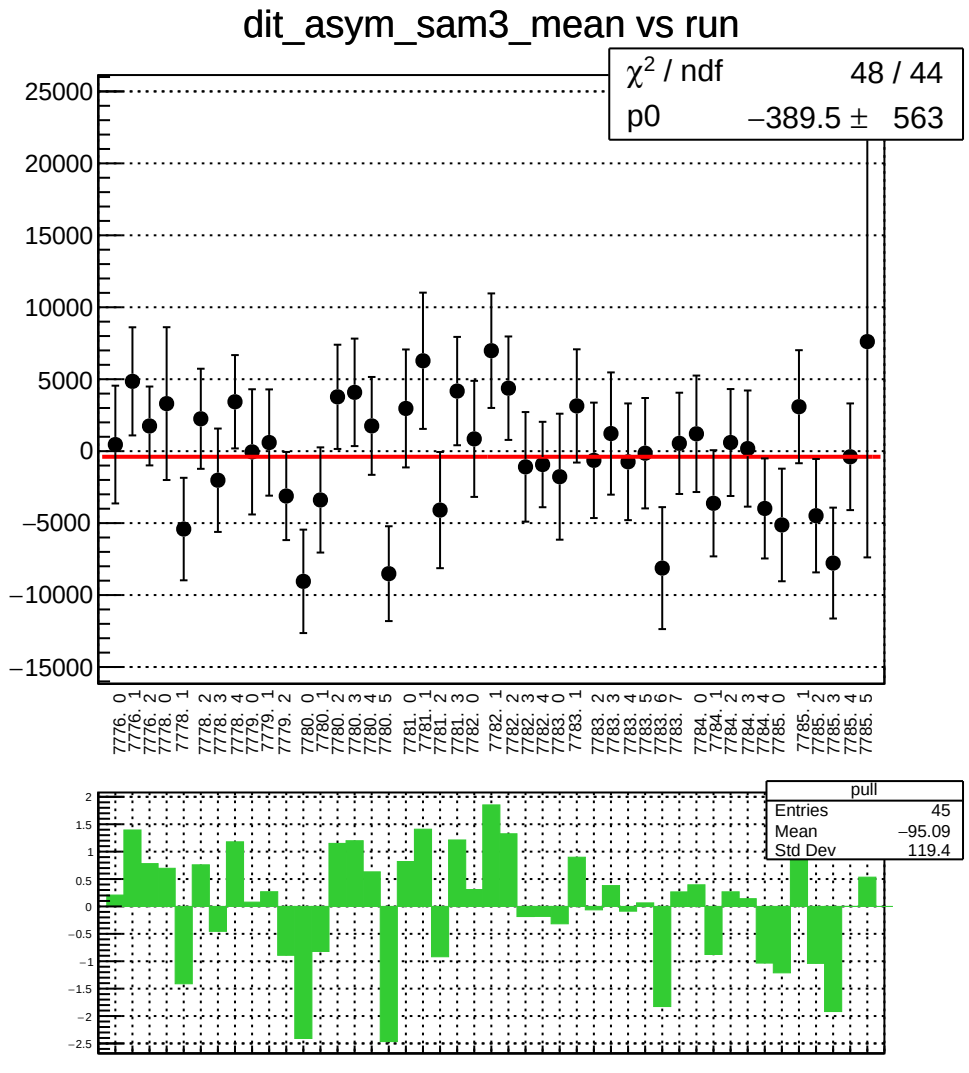
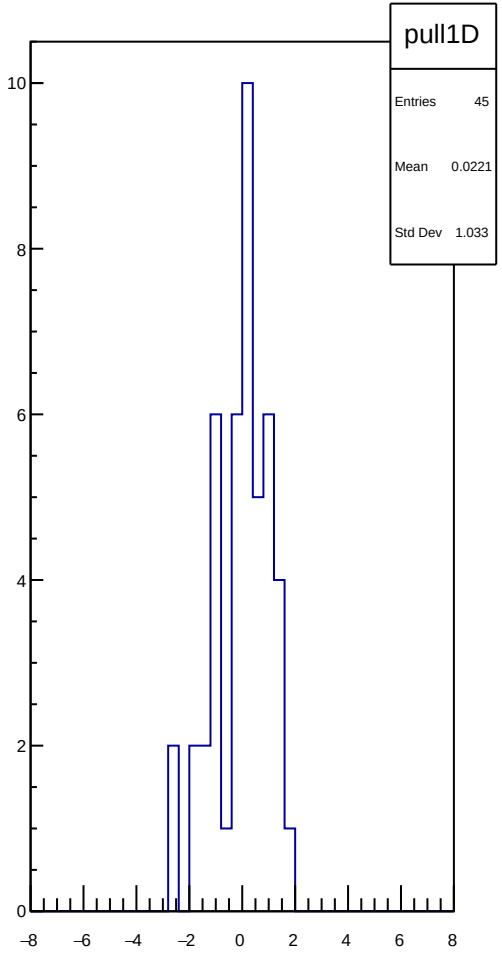
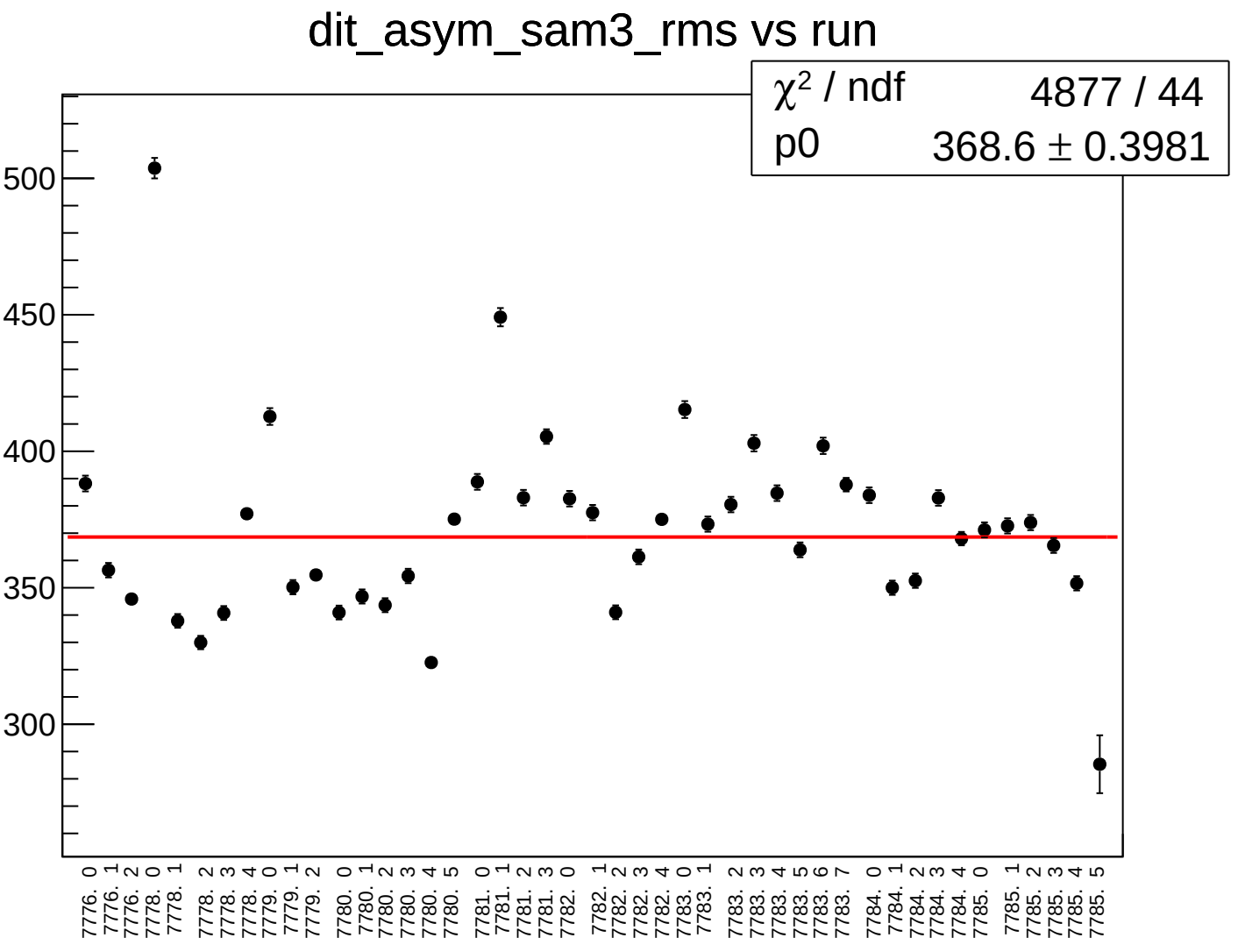
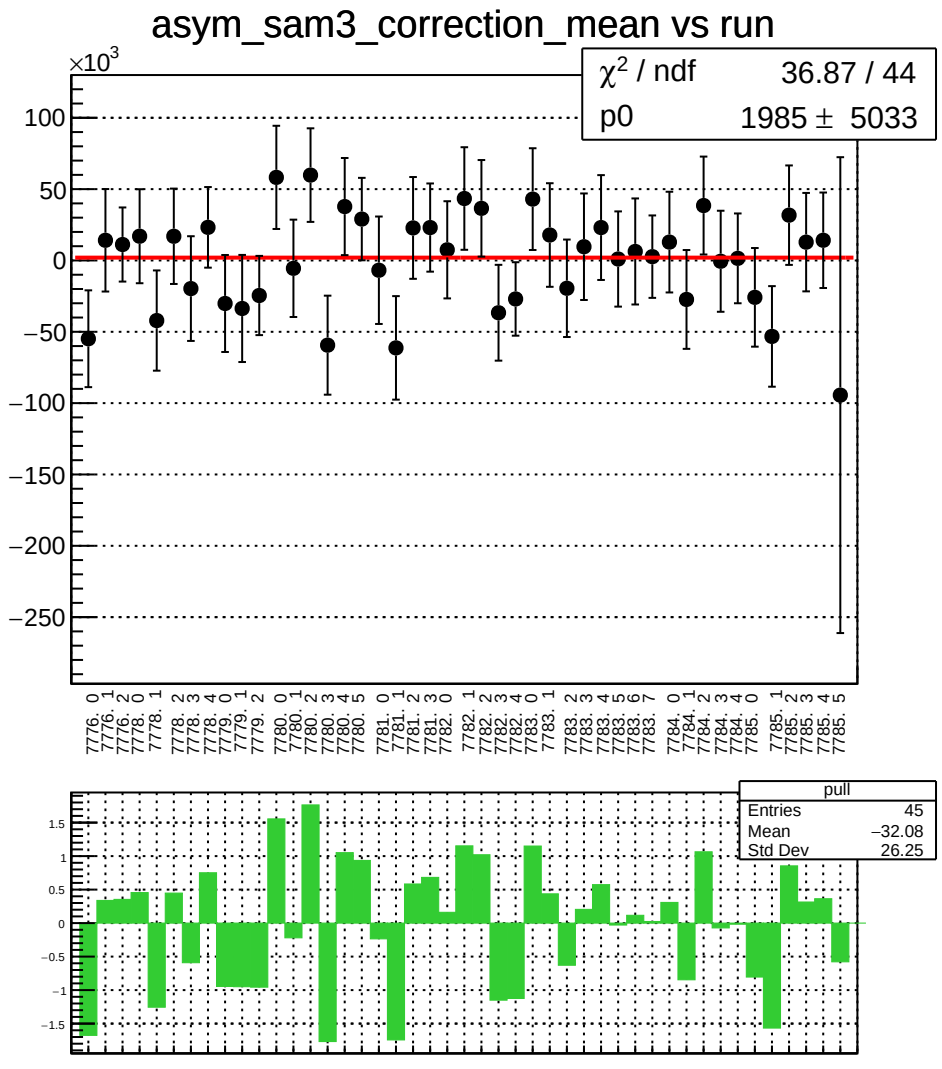
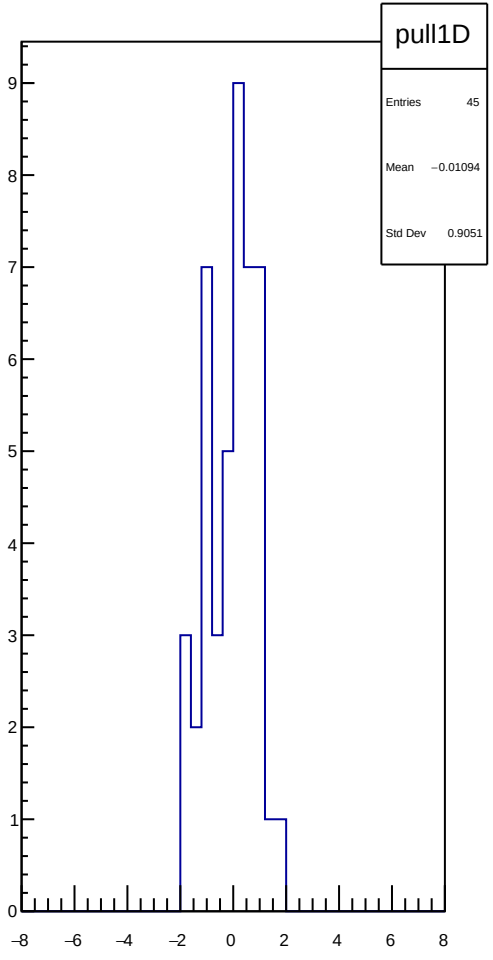
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

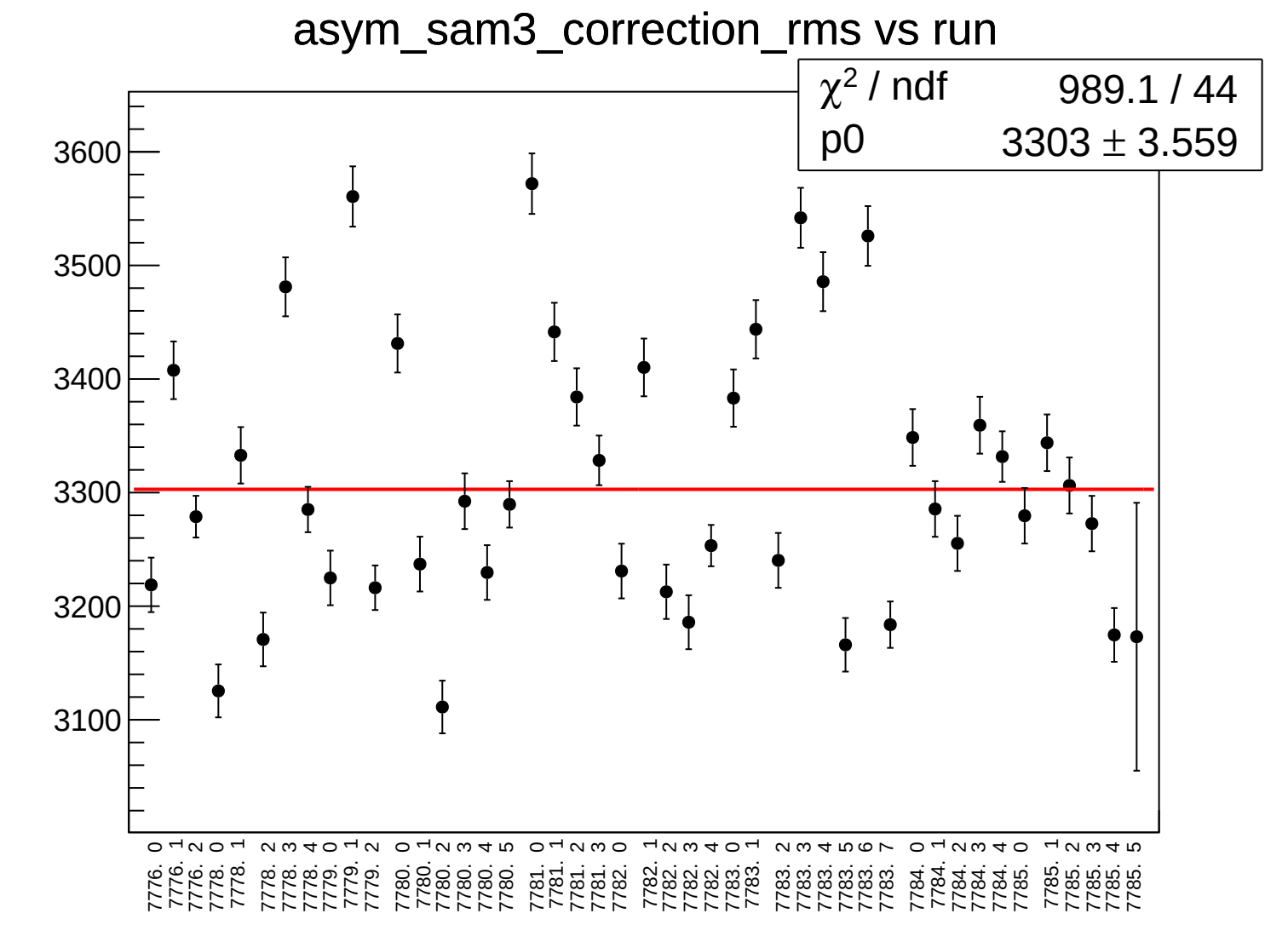

dit_asym_sam3_mean vs run
χ² / ndf 48 / 44
p0 −389.5 ± 563
pull
Entries 45
Mean −95.09
Std Dev 119.4

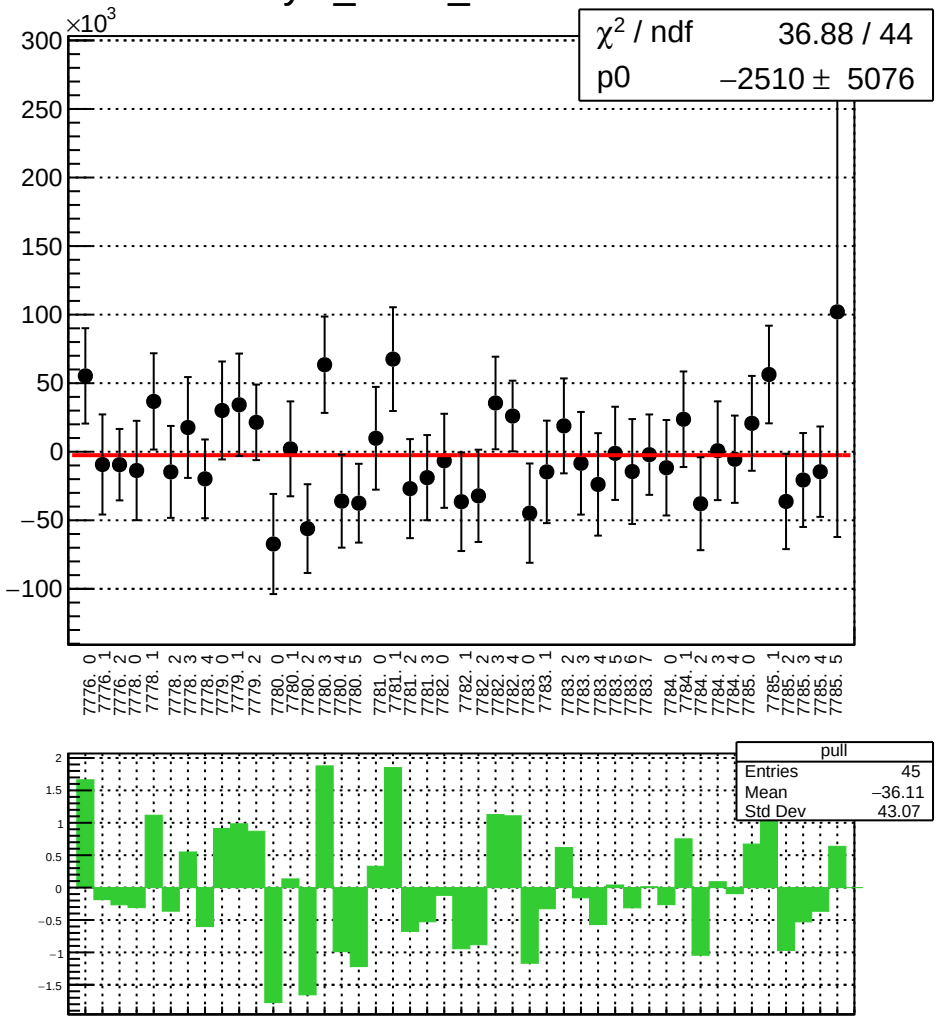

pull1D
Entries 45
Mean 0.0221
Std Dev 1.033

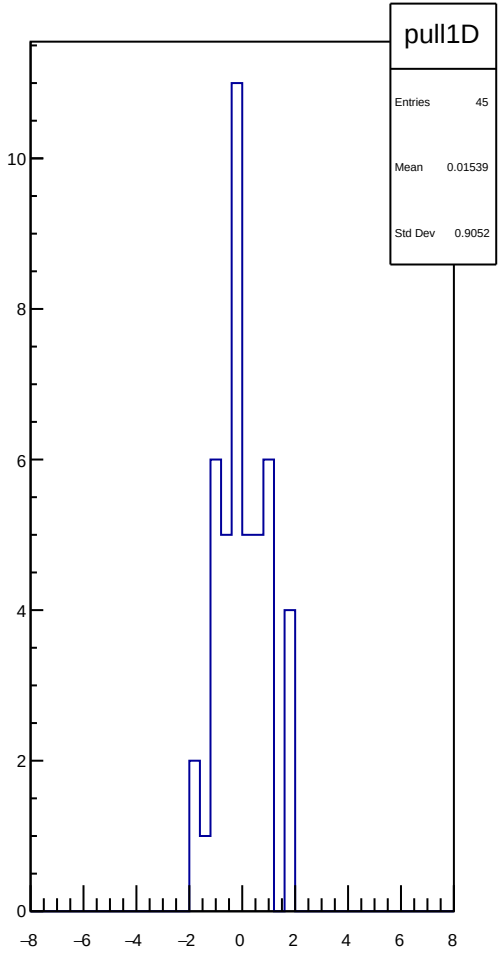

dit_asym_sam3_rms vs run
χ² / ndf 4877 / 44
p0 368.6 ± 0.3981
500
450
400
350
300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

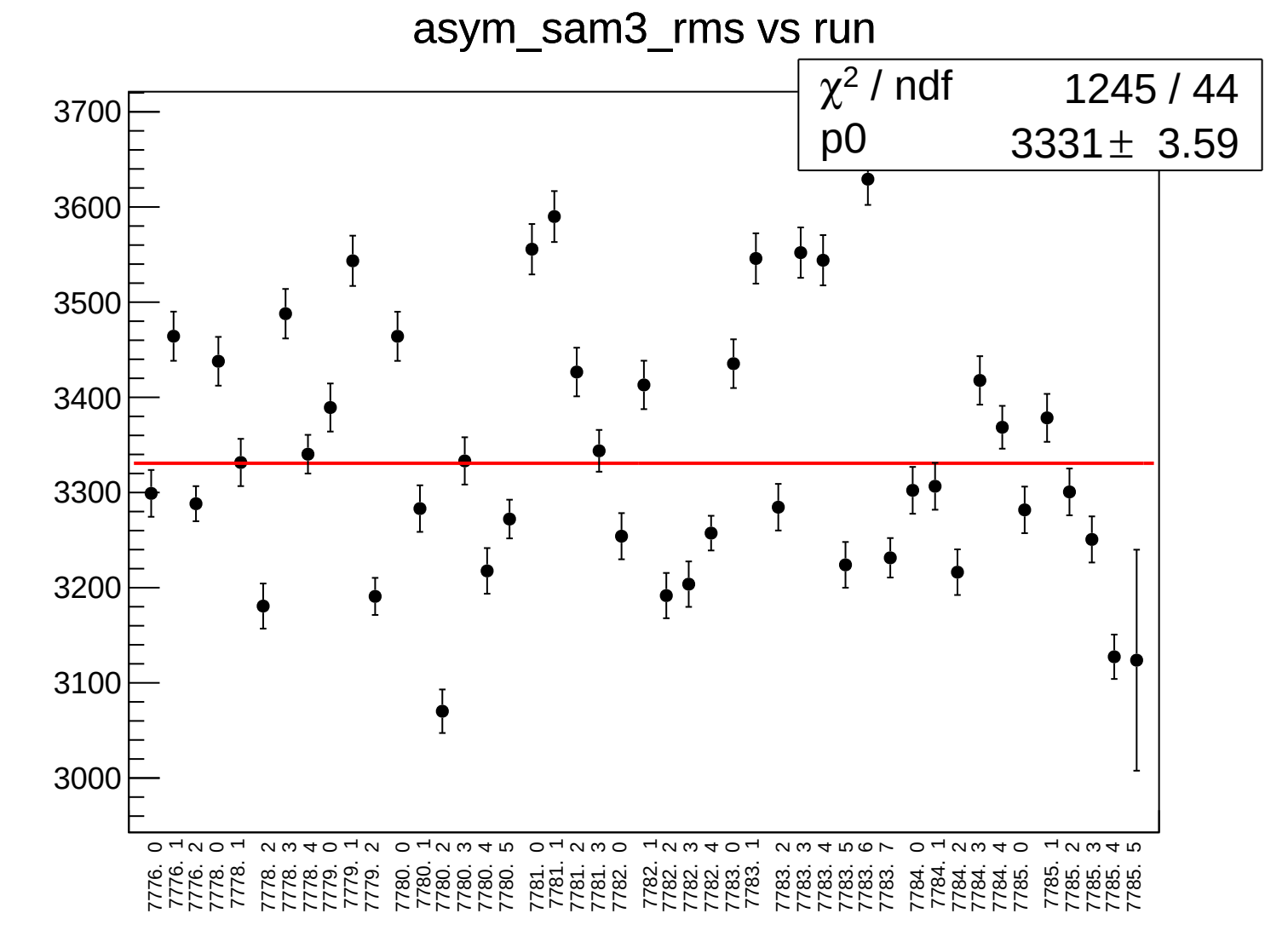

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 36.87 / 44
p0 1985 ± 5033
100
50
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −32.08
Std Dev 26.25
1.5
1
0.5
0
−0.5
−1
−1.5

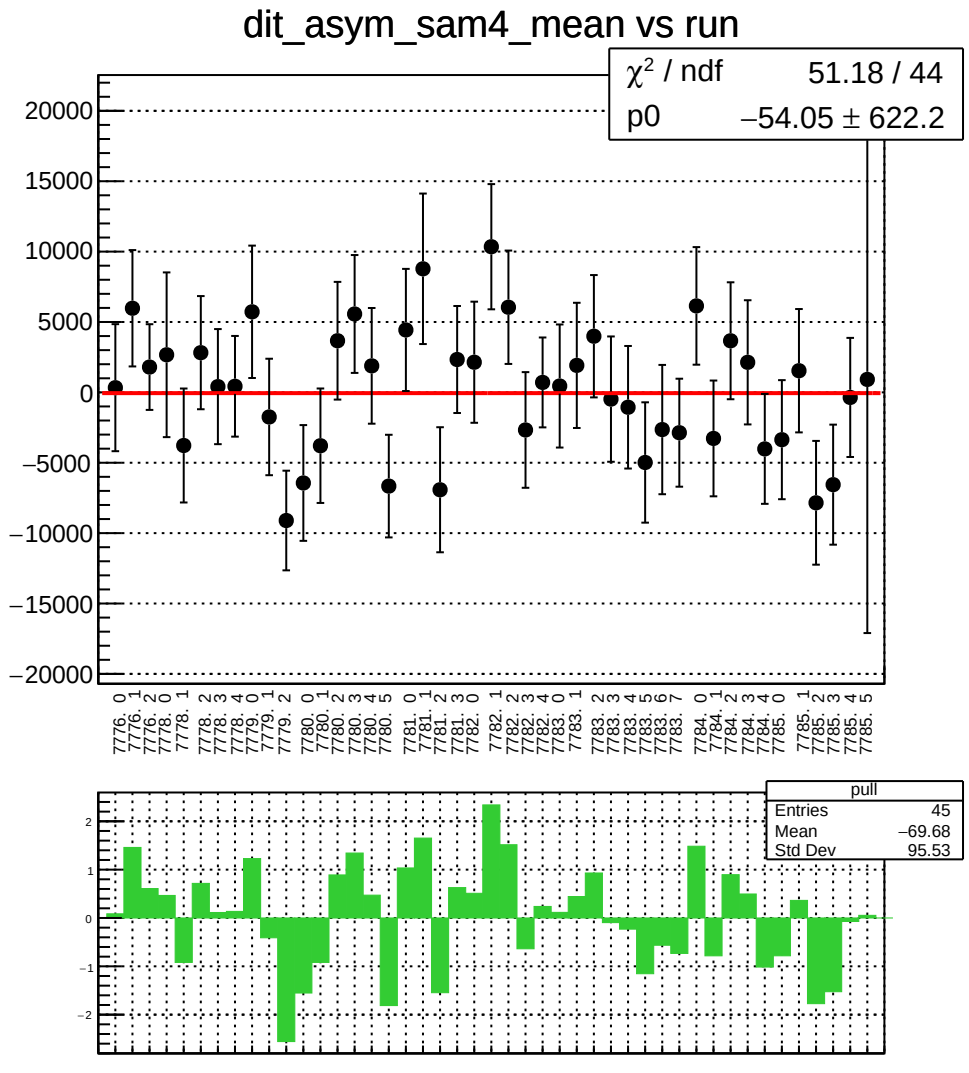

pull1D
Entries 45
Mean −0.01094
Std Dev 0.9051
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

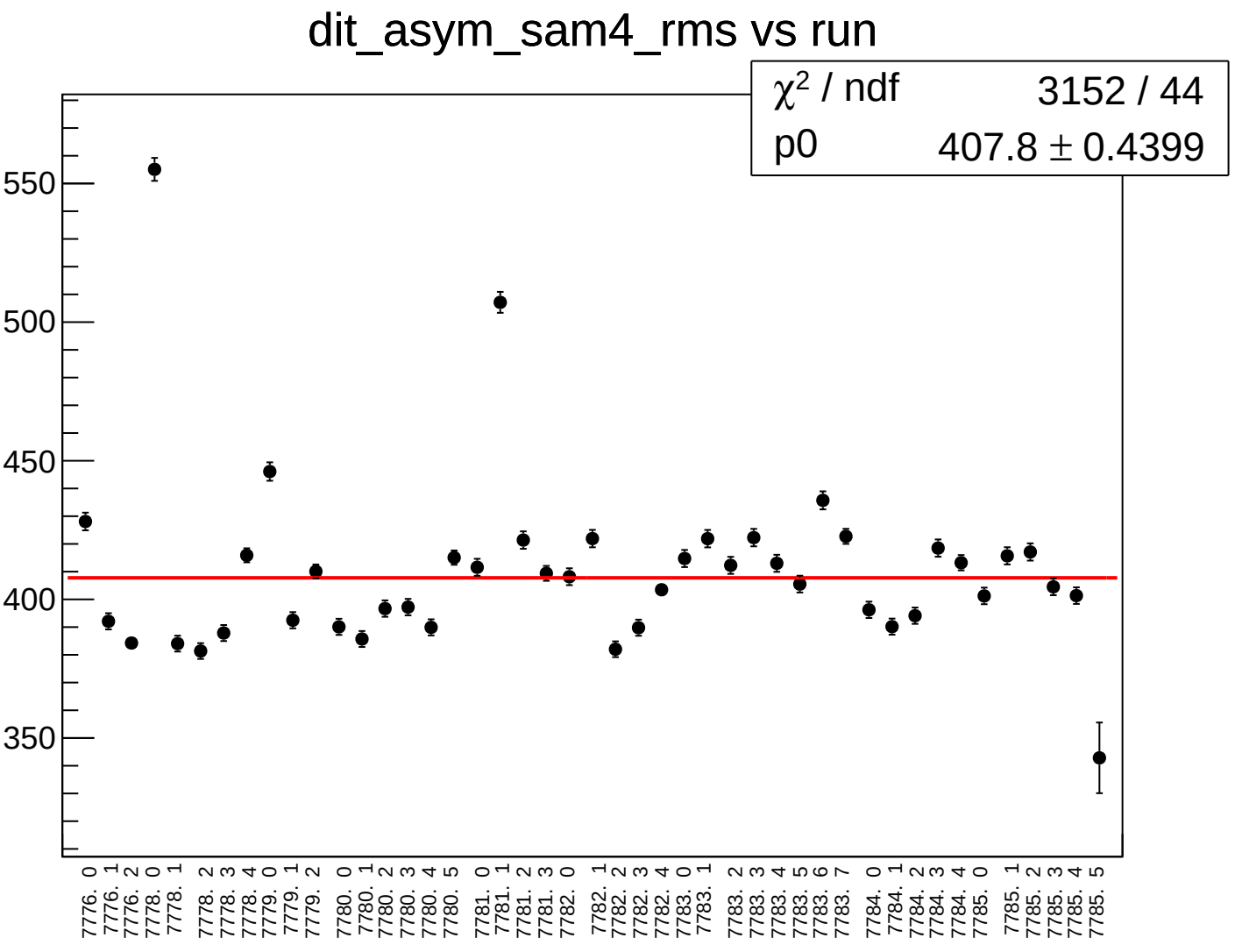

asym_sam3_correction_rms vs run
χ² / ndf 989.1 / 44
p0 3303 ± 3.559
3600
3500
3400
3300
3200
3100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

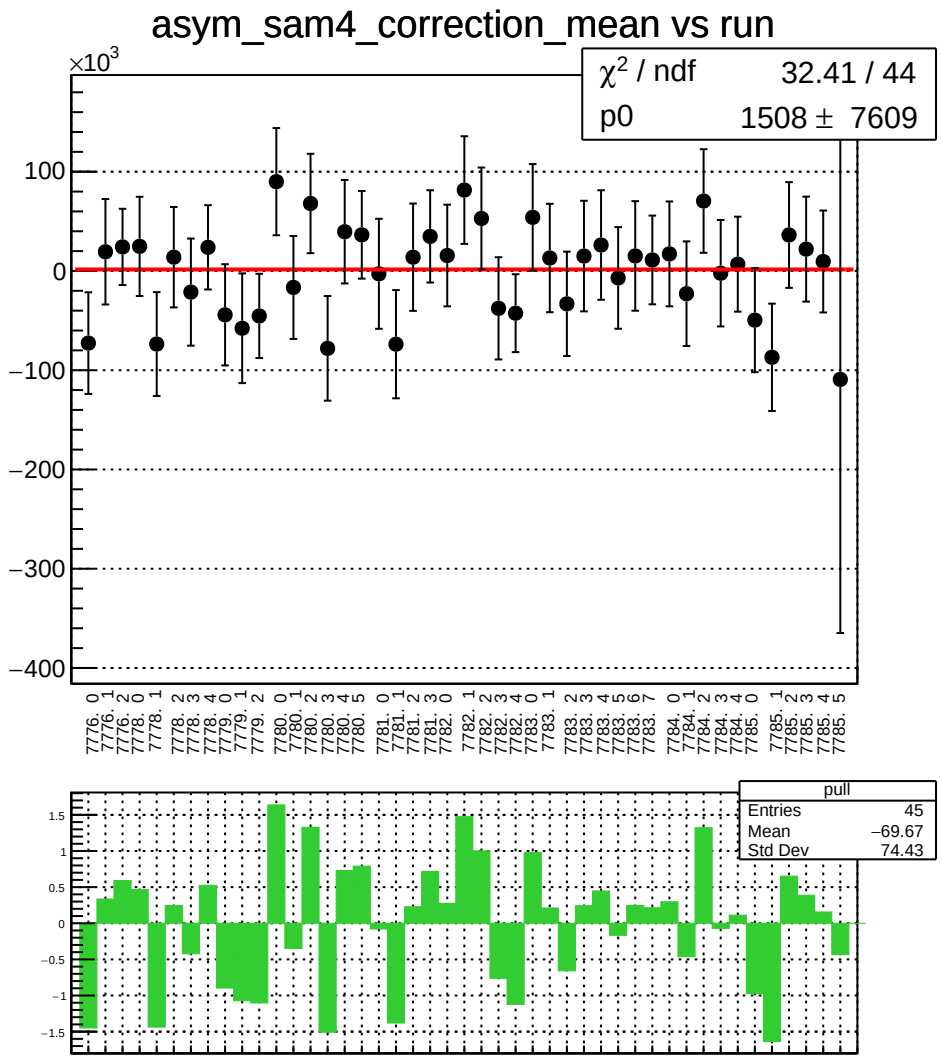

asym_sam3_mean vs run
×10^3
χ^2 / ndf 36.88 / 44
p0 −2510 ± 5076
pull
Entries 45
Mean −36.11
Std Dev 43.07

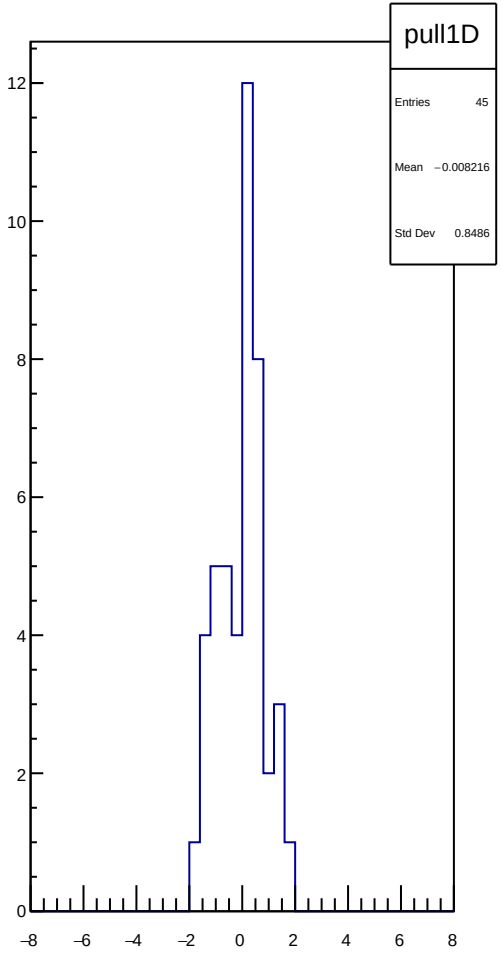

pull1D
Entries 45
Mean 0.01539
Std Dev 0.9052

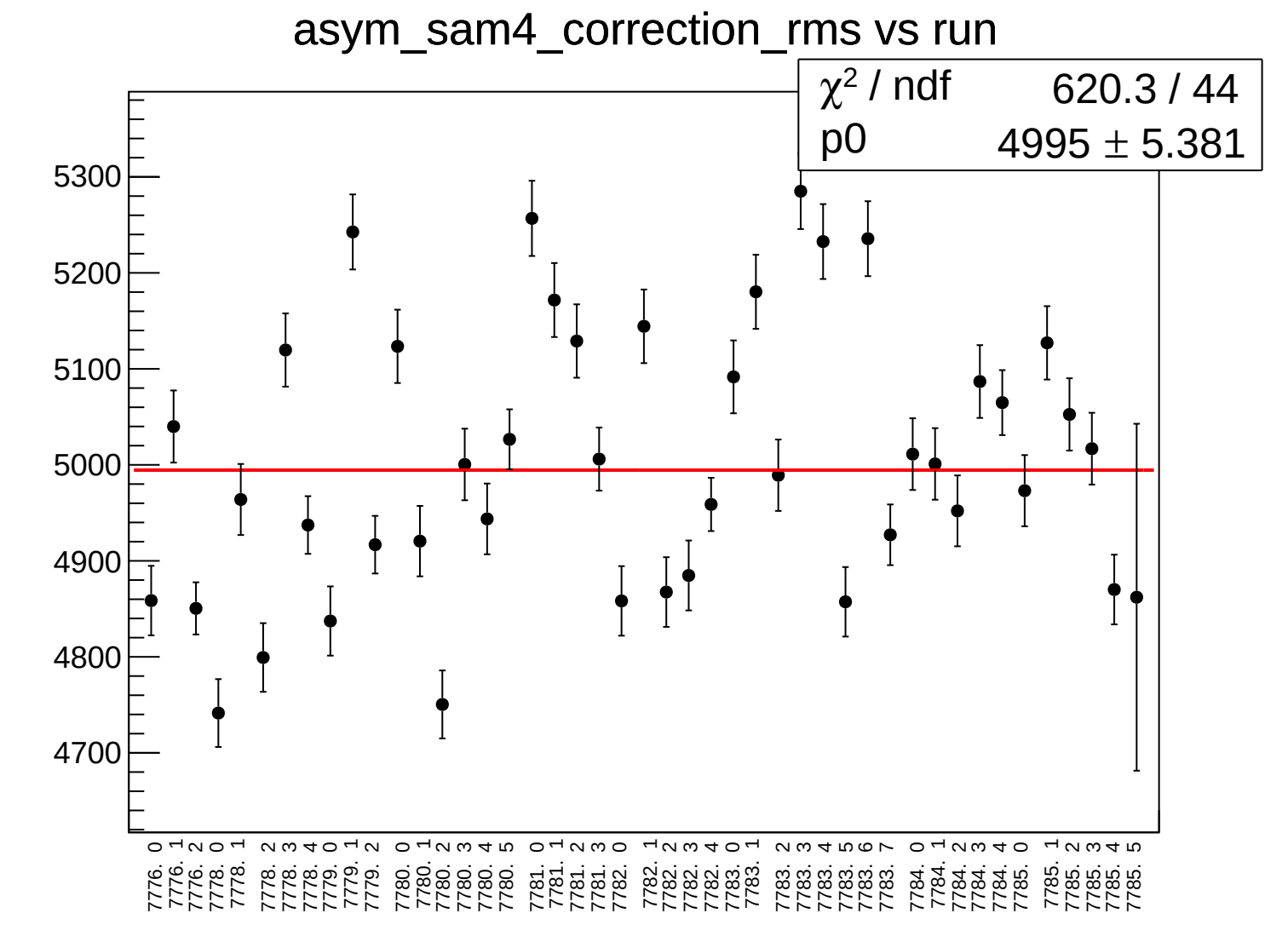

asym_sam3_rms vs run
χ² / ndf 1245 / 44
p0 3331 ± 3.59
3700
3600
3500
3400
3300
3200
3100
3000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

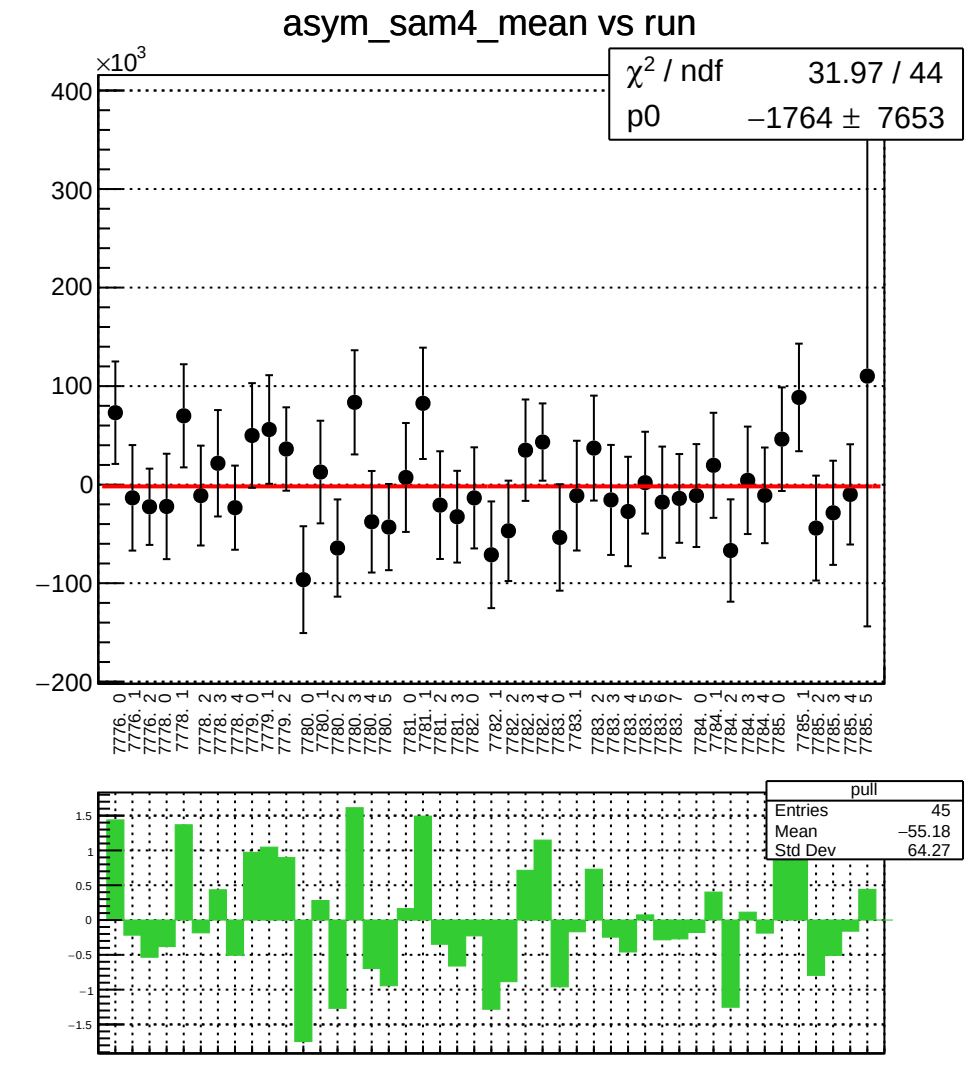

dit_asym_sam4_mean vs run
χ² / ndf 51.18 / 44
p0 −54.05 ± 622.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.68
Std Dev 95.53
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.02538
Std Dev 1.066
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

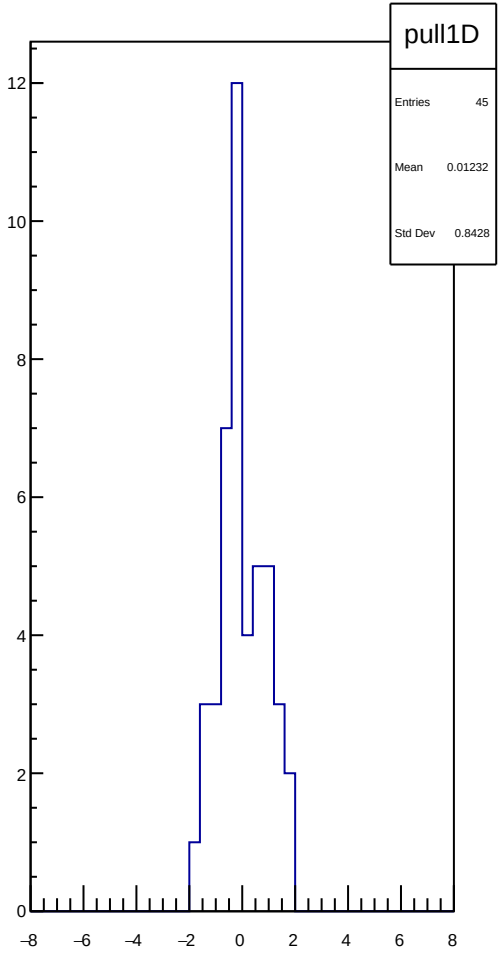

dit_asym_sam4_rms vs run
χ² / ndf 3152 / 44
p0 407.8 ± 0.4399
550
500
450
400
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

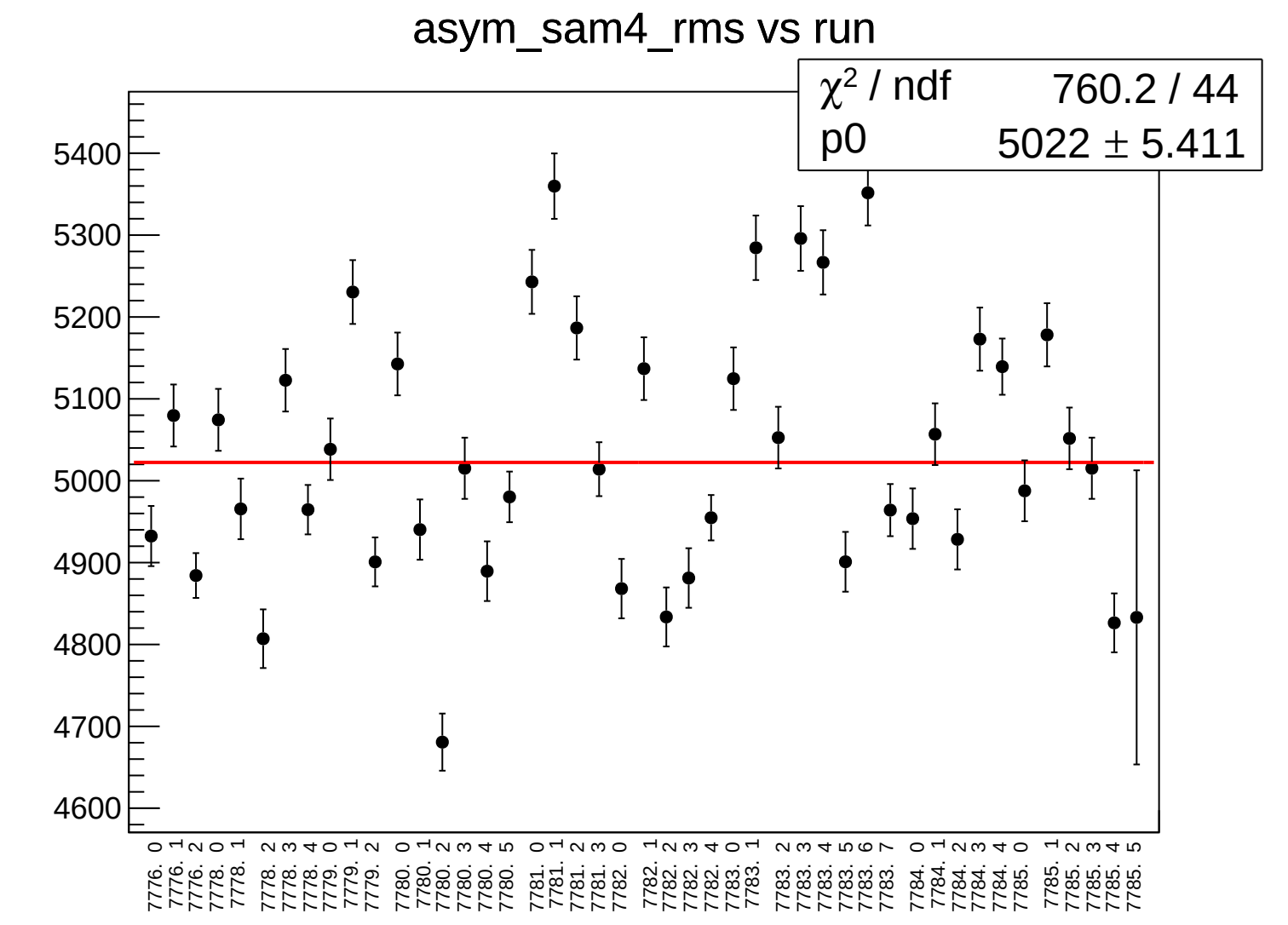

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 32.41 / 44
p0 1508 ± 7609
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.67
Std Dev 74.43
1.5
1
0.5
0
−0.5
−1
−1.5

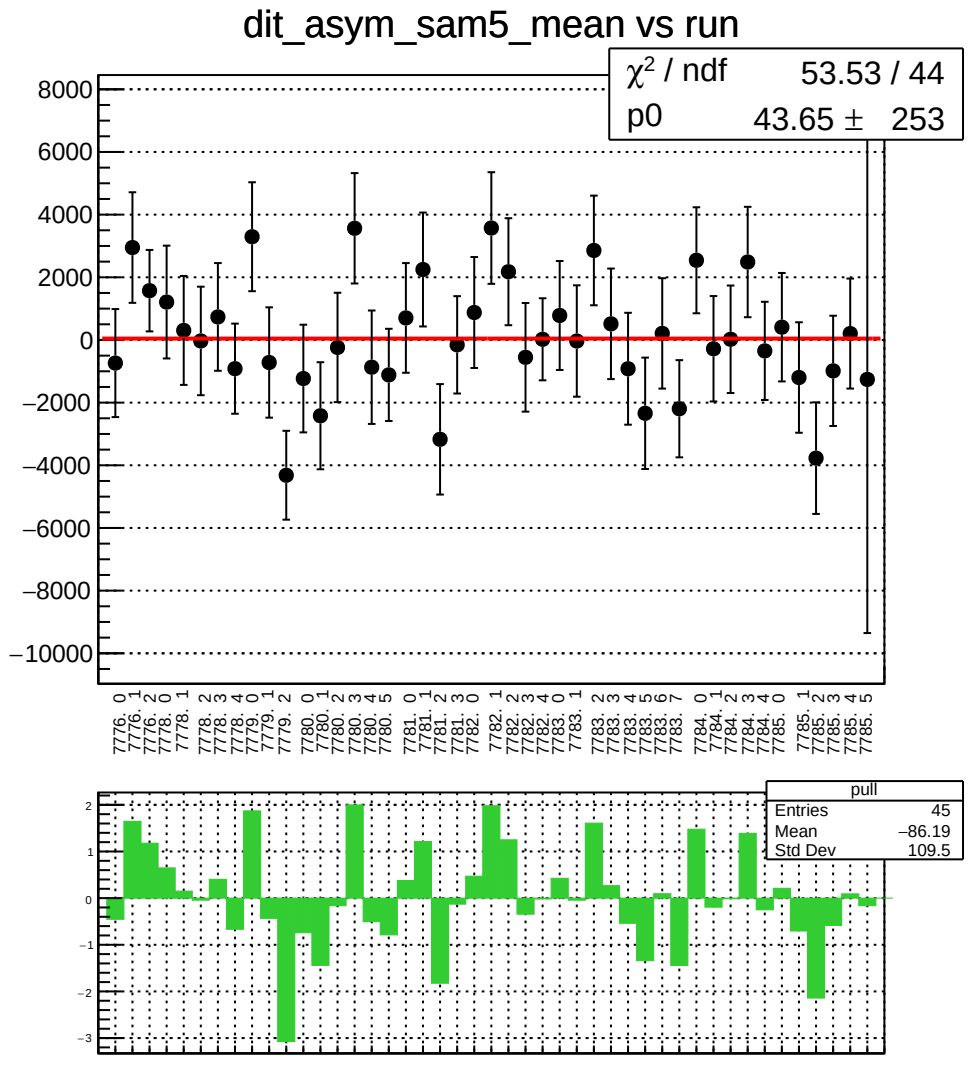

pull1D
Entries 45
Mean −0.008216
Std Dev 0.8486
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

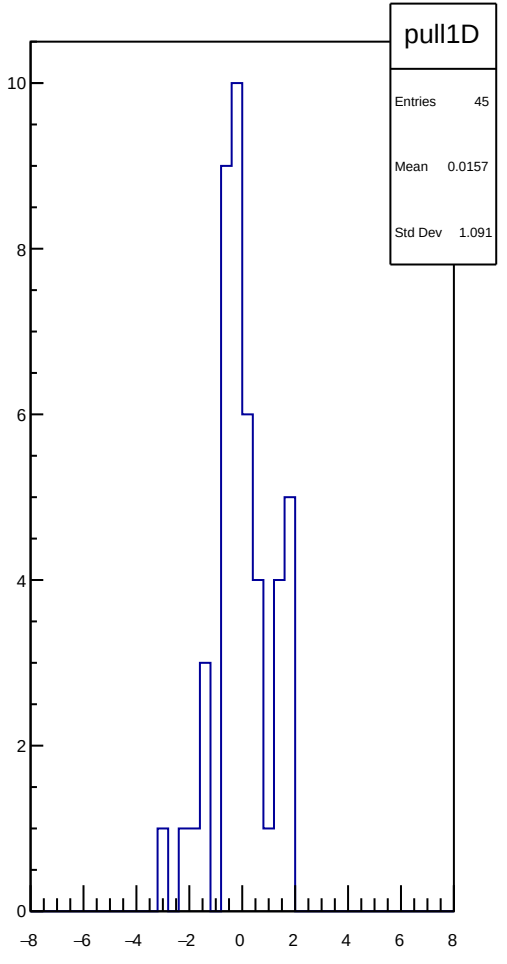

asym_sam4_correction_rms vs run
χ² / ndf 620.3 / 44
p0 4995 ± 5.381
5300
5200
5100
5000
4900
4800
4700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

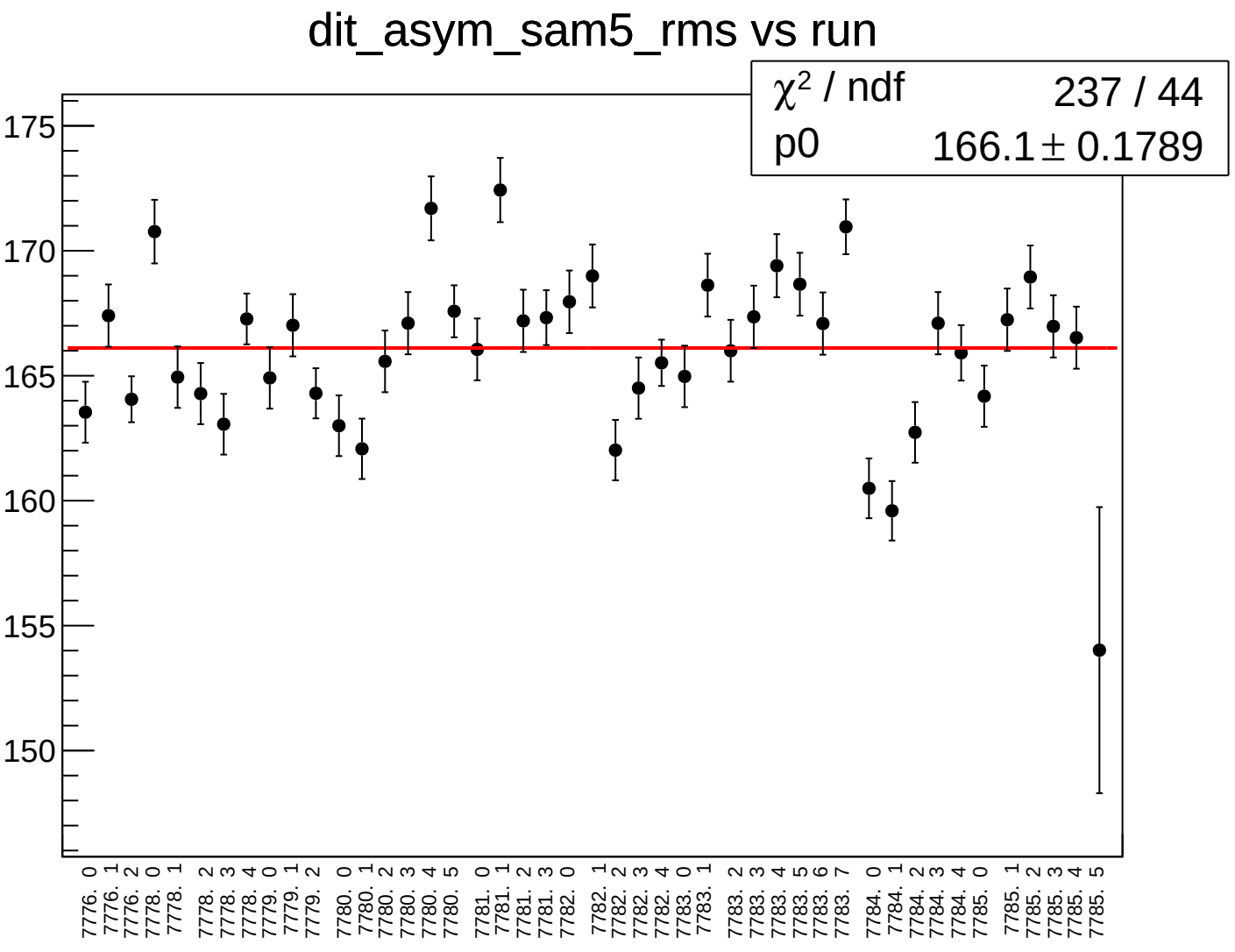

asym_sam4_mean vs run
×10^3
χ² / ndf 31.97 / 44
p0 −1764 ± 7653
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −55.18
Std Dev 64.27
1.5
1
0.5
0
−0.5
−1
−1.5

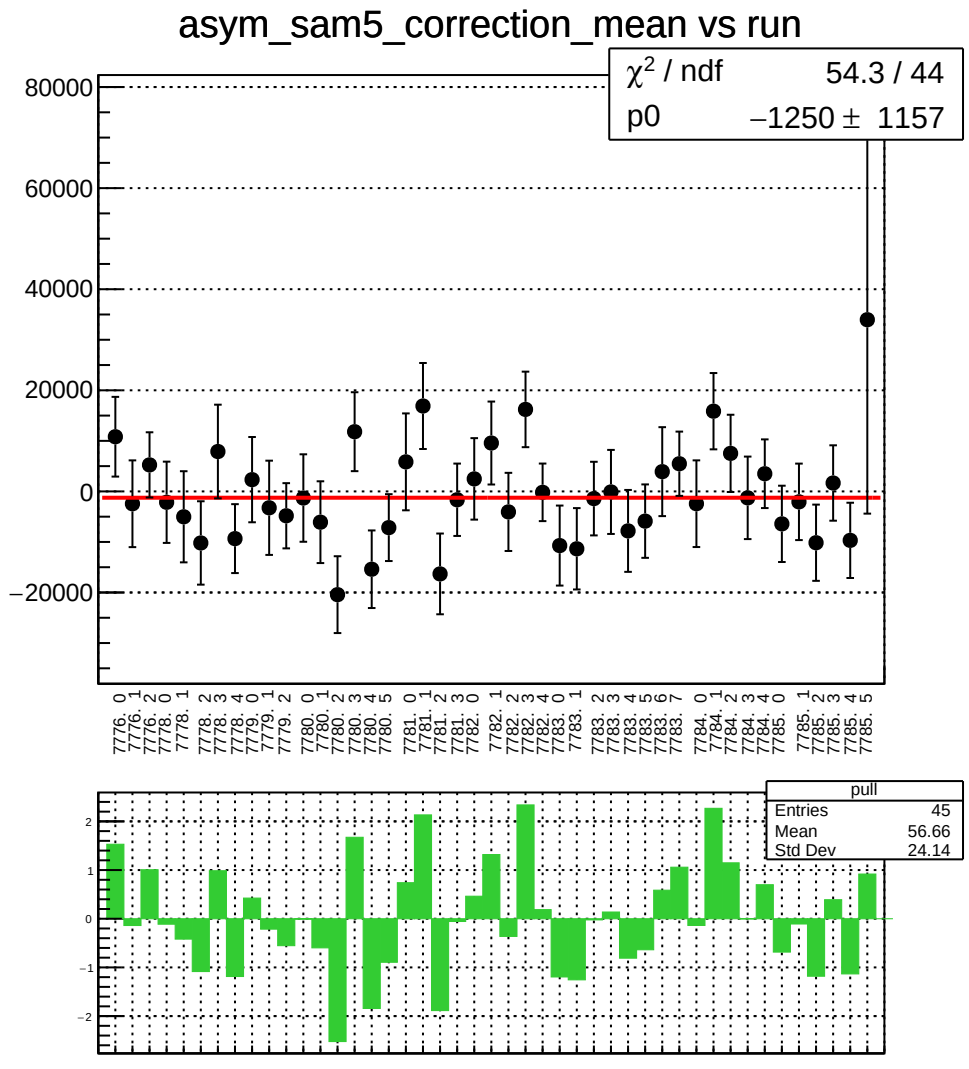

pull1D
Entries 45
Mean 0.01232
Std Dev 0.8428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

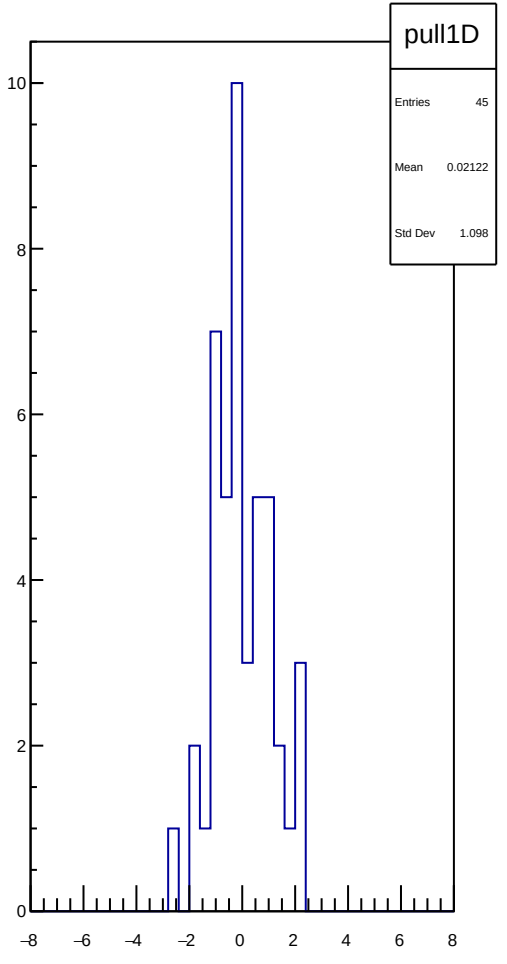

asym_sam4_rms vs run
χ² / ndf 760.2 / 44
p0 5022 ± 5.411
5400
5300
5200
5100
5000
4900
4800
4700
4600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

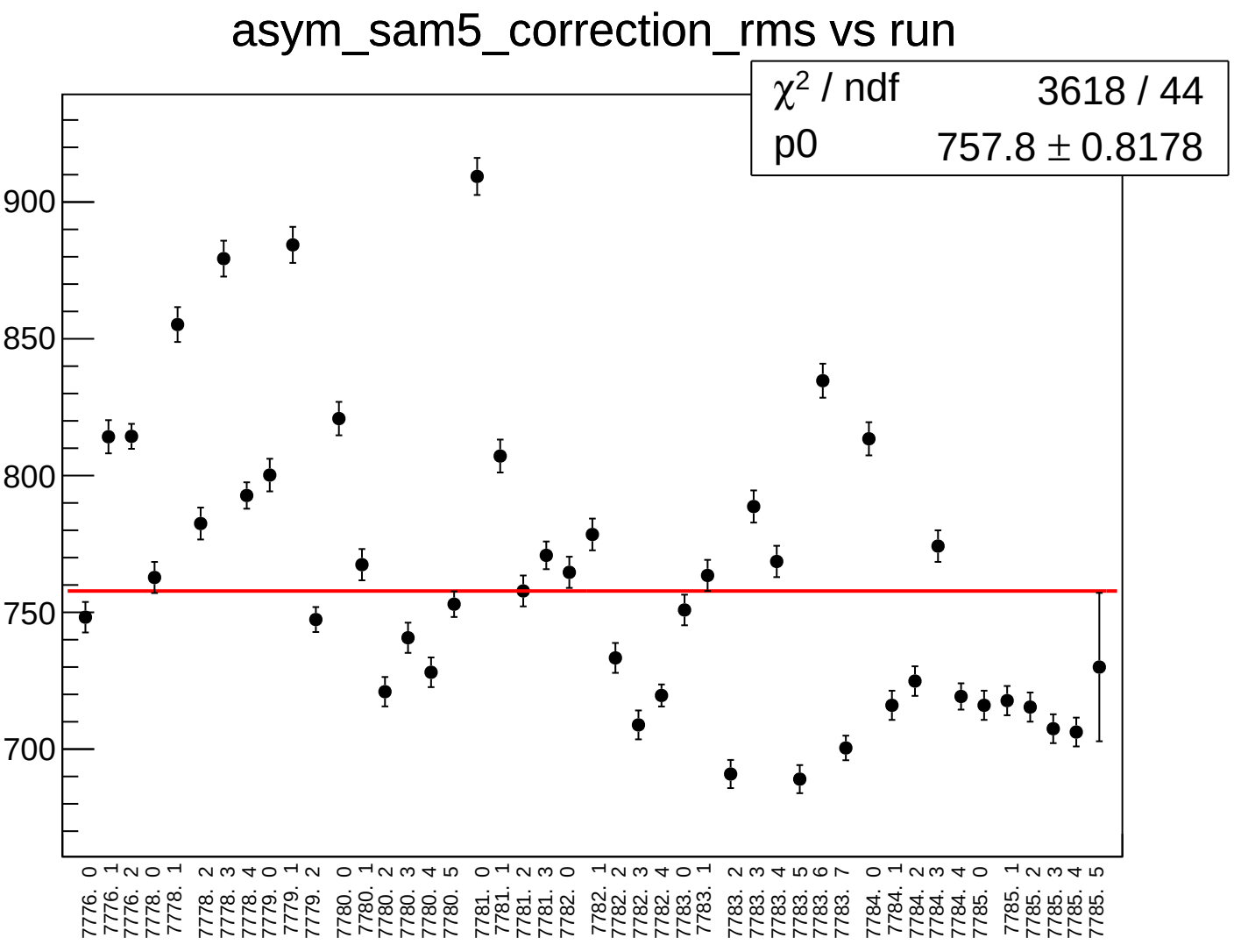

dit_asym_sam5_mean vs run
χ² / ndf 53.53 / 44
p0 43.65 ± 253
pull
Entries 45
Mean −86.19
Std Dev 109.5

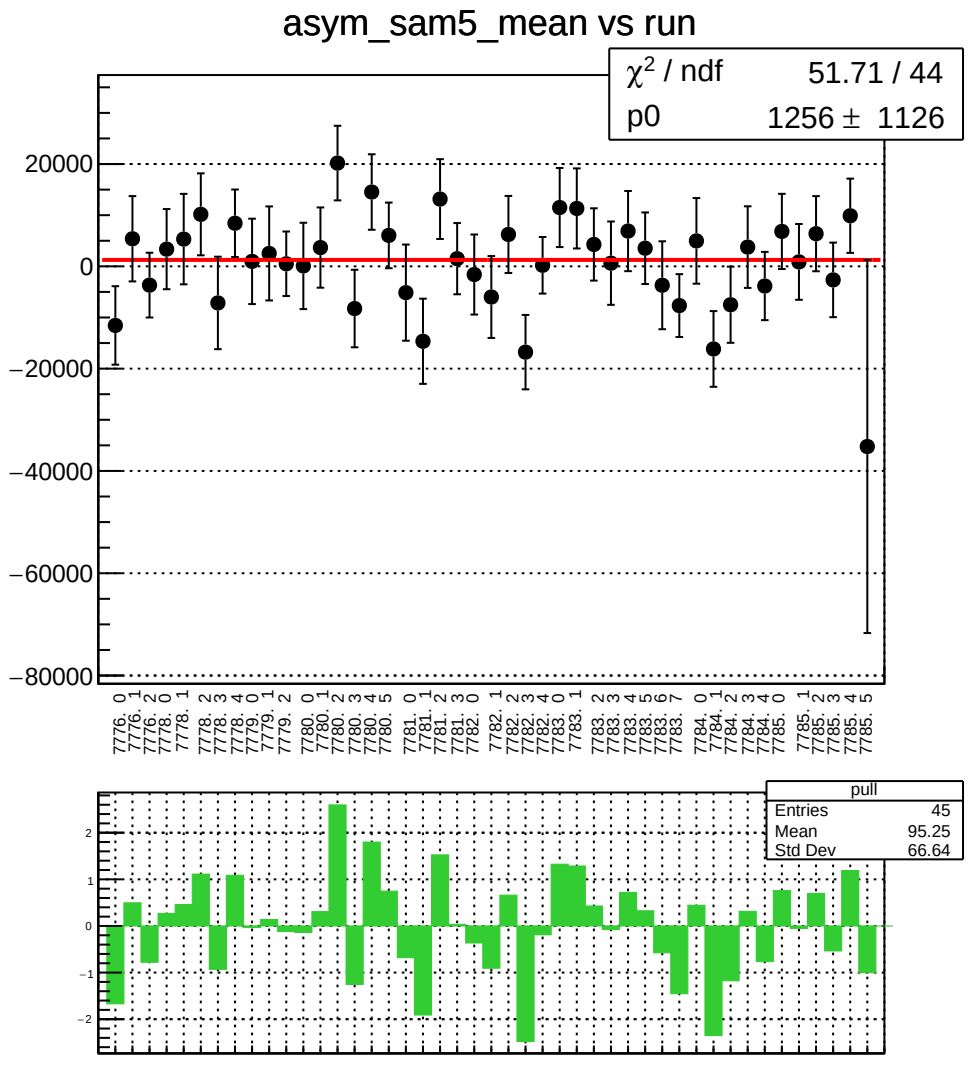

pull1D
Entries 45
Mean 0.0157
Std Dev 1.091

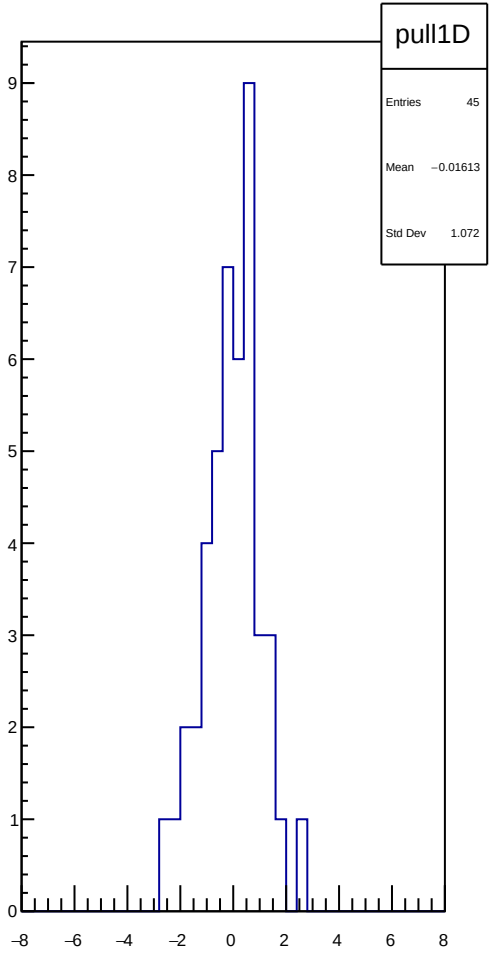

dit_asym_sam5_rms vs run
χ² / ndf 237 / 44
p0 166.1 ± 0.1789
175
170
165
160
155
150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

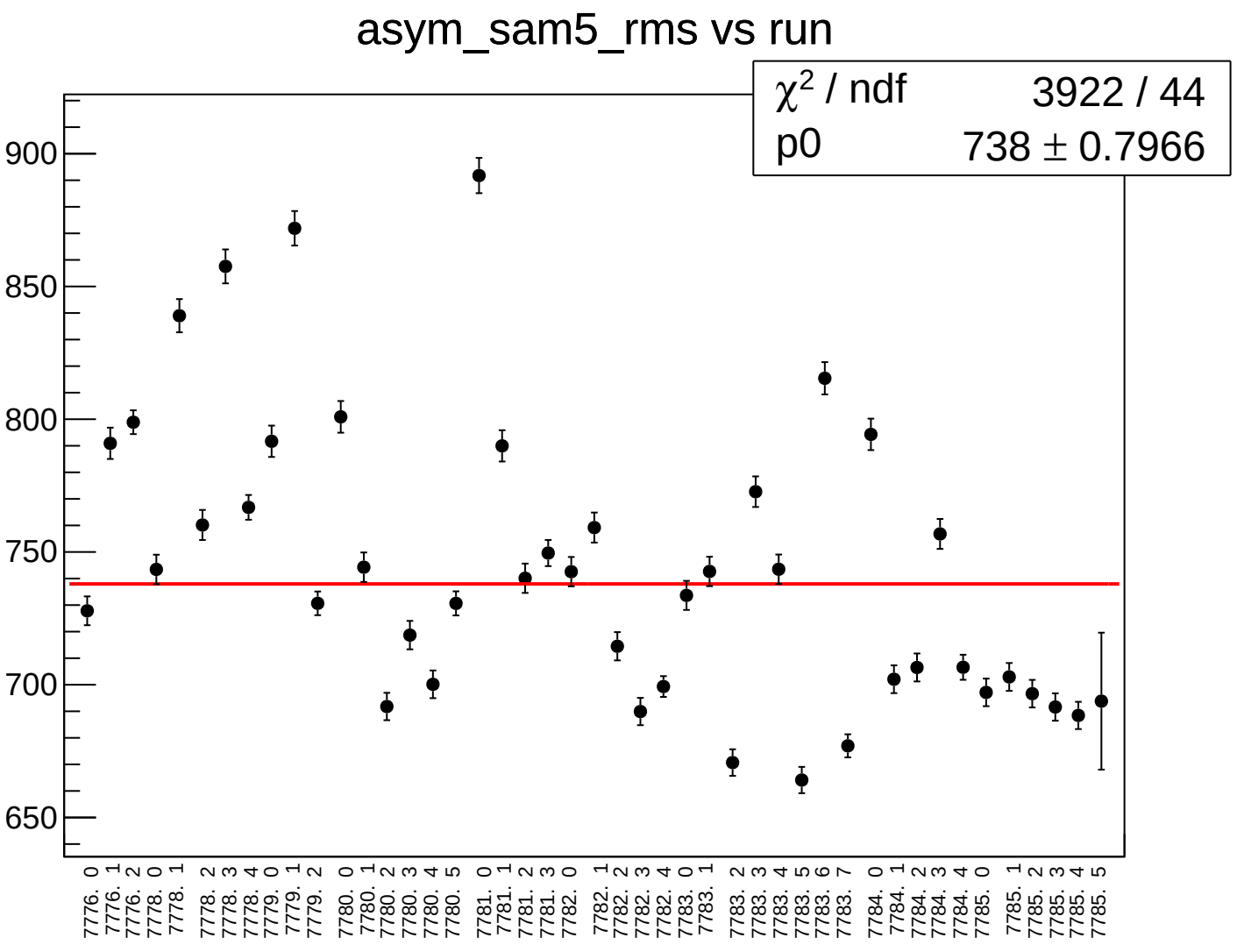

asym_sam5_correction_mean vs run
χ² / ndf 54.3 / 44
p0 −1250 ± 1157
80000
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7777. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 56.66
Std Dev 24.14
2
1
0
−1
−2

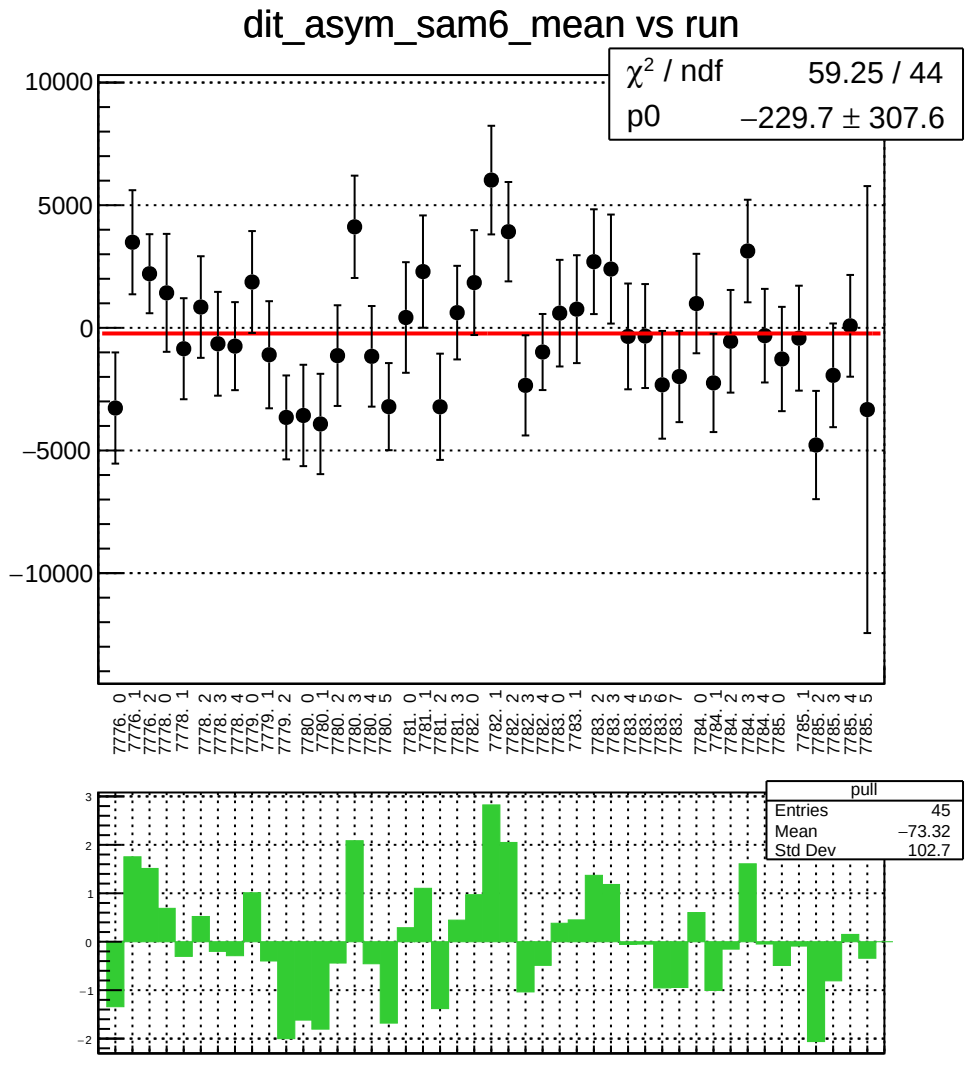

pull1D
Entries 45
Mean 0.02122
Std Dev 1.098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

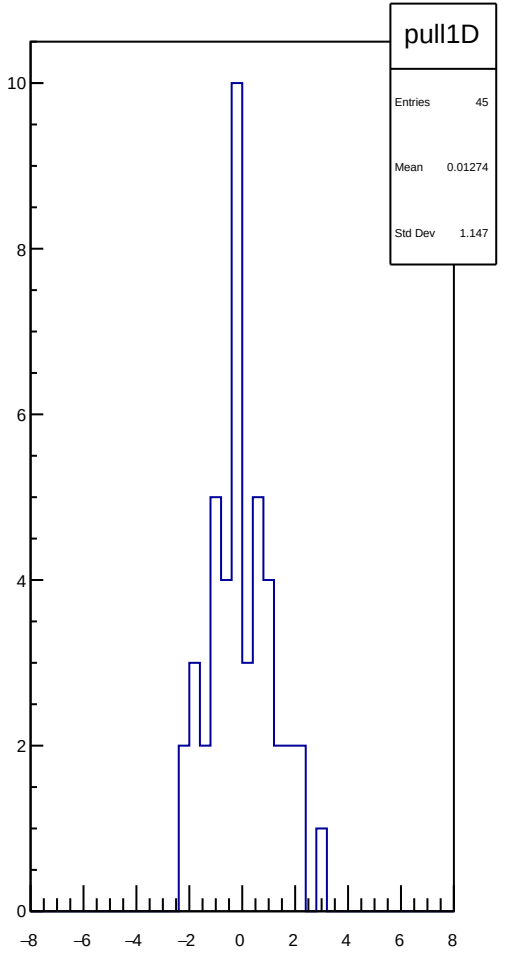

asym_sam5_correction_rms vs run
χ² / ndf 3618 / 44
p0 757.8 ± 0.8178
900
850
800
750
700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

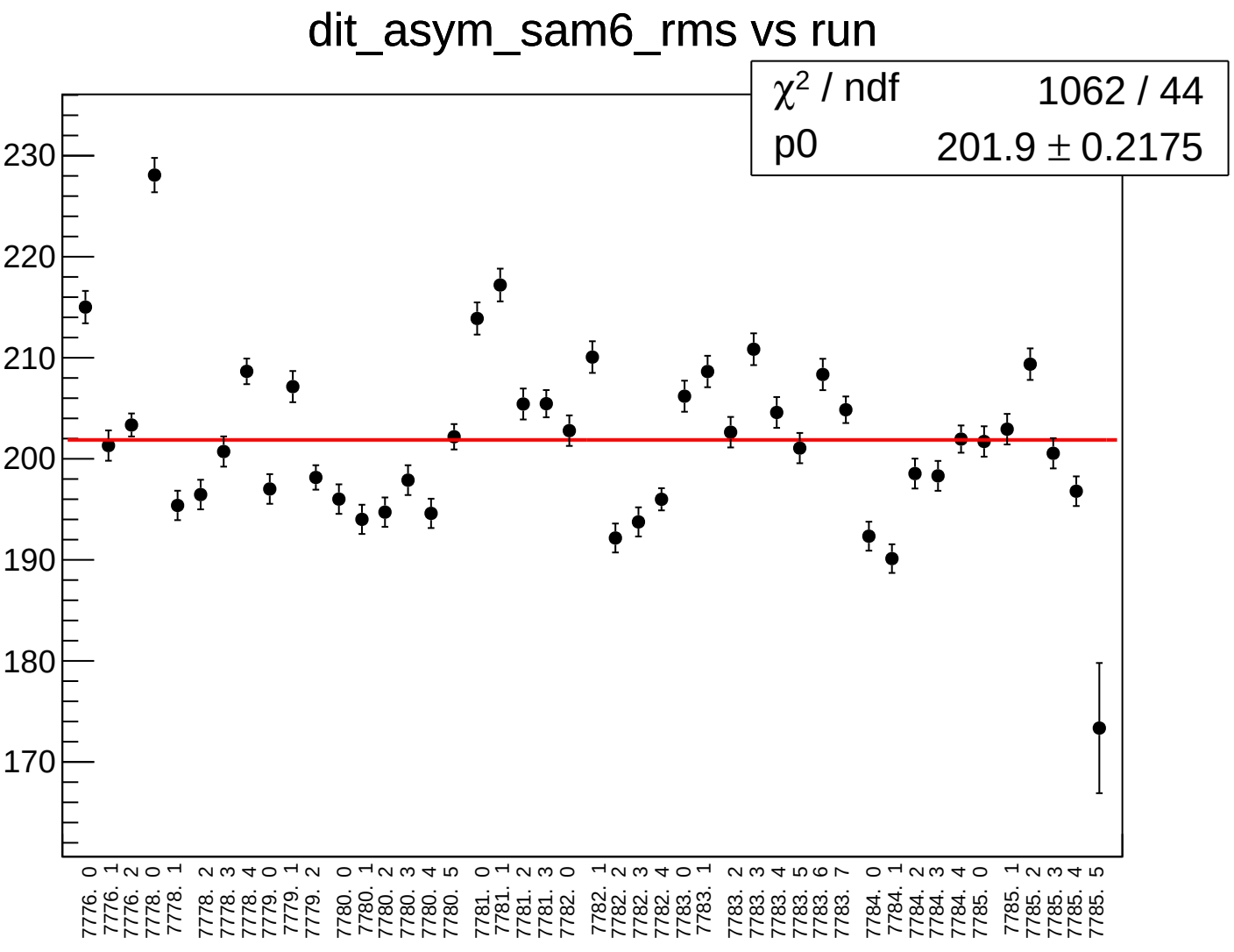

asym_sam5_mean vs run
χ² / ndf 51.71 / 44
p0 1256 ± 1126
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 95.25
Std Dev 66.64
2
1
0
−1
−2

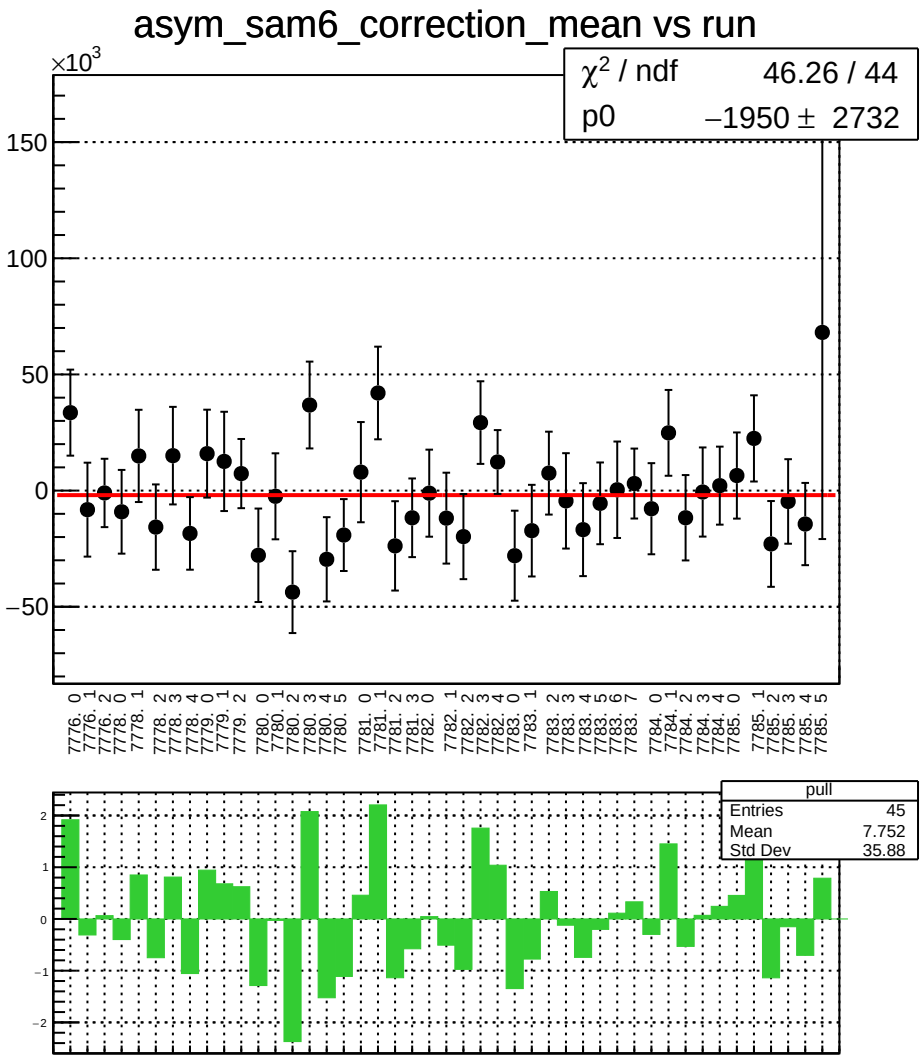

pull1D
Entries 45
Mean −0.01613
Std Dev 1.072
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

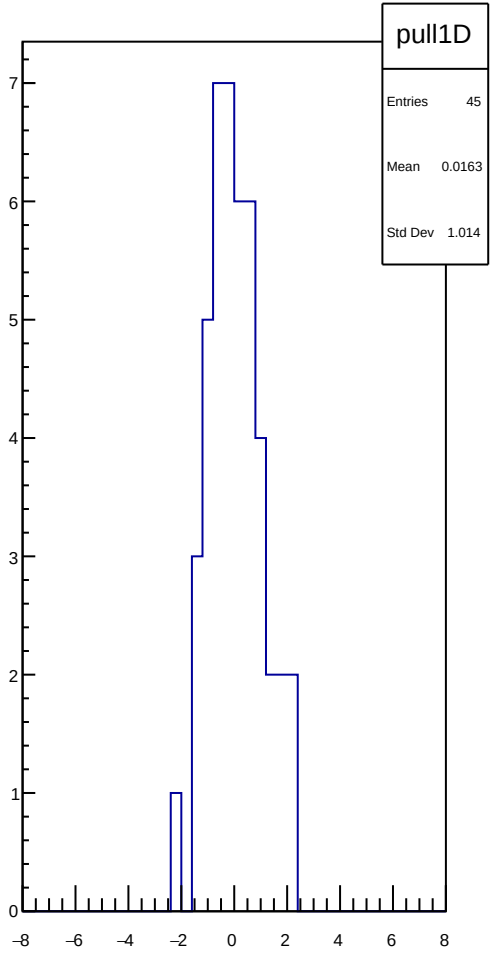

asym_sam5_rms vs run
χ² / ndf 3922 / 44
p0 738 ± 0.7966
900
850
800
750
700
650
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

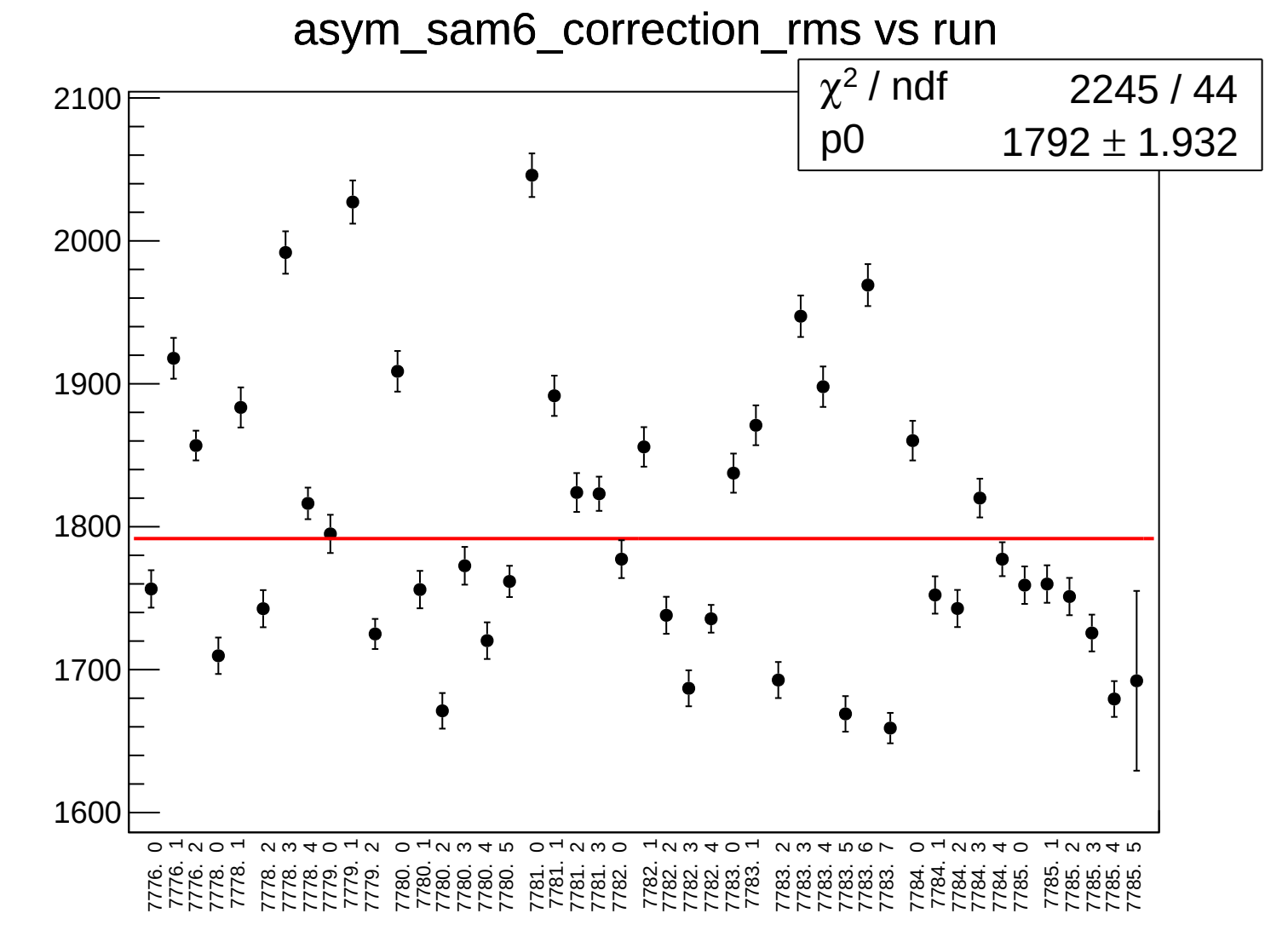

dit_asym_sam6_mean vs run
χ² / ndf 59.25 / 44
p0 −229.7 ± 307.6
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −73.32
Std Dev 102.7
3
2
1
0
−1
−2

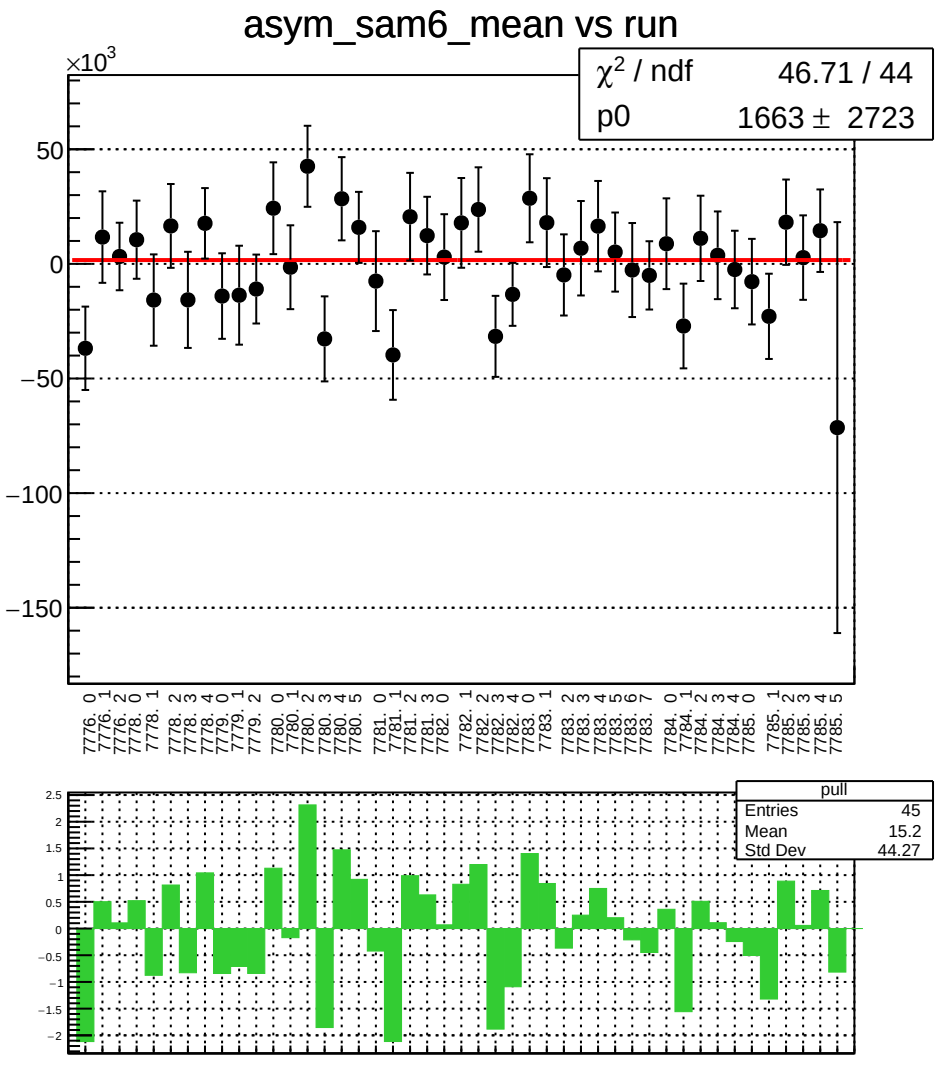

pull1D
Entries 45
Mean 0.01274
Std Dev 1.147
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

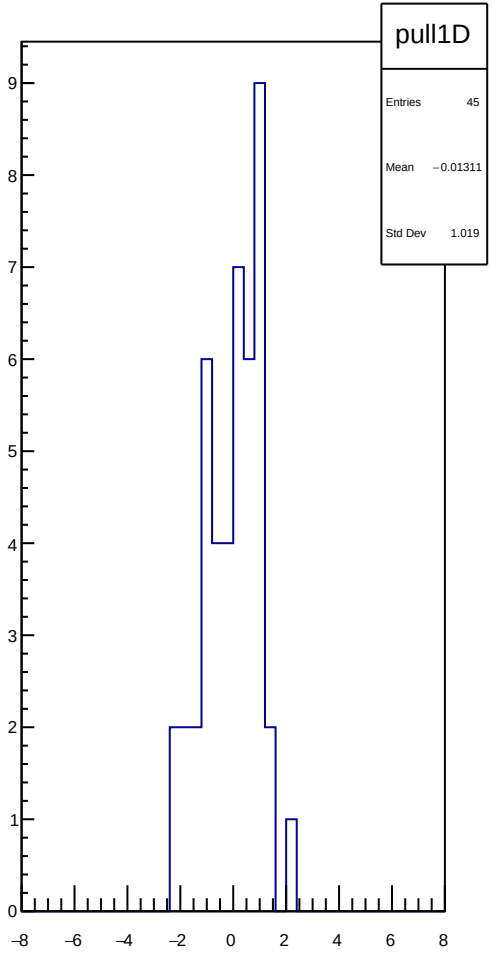

dit_asym_sam6_rms vs run
χ² / ndf 1062 / 44
p0 201.9 ± 0.2175
230
220
210
200
190
180
170
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

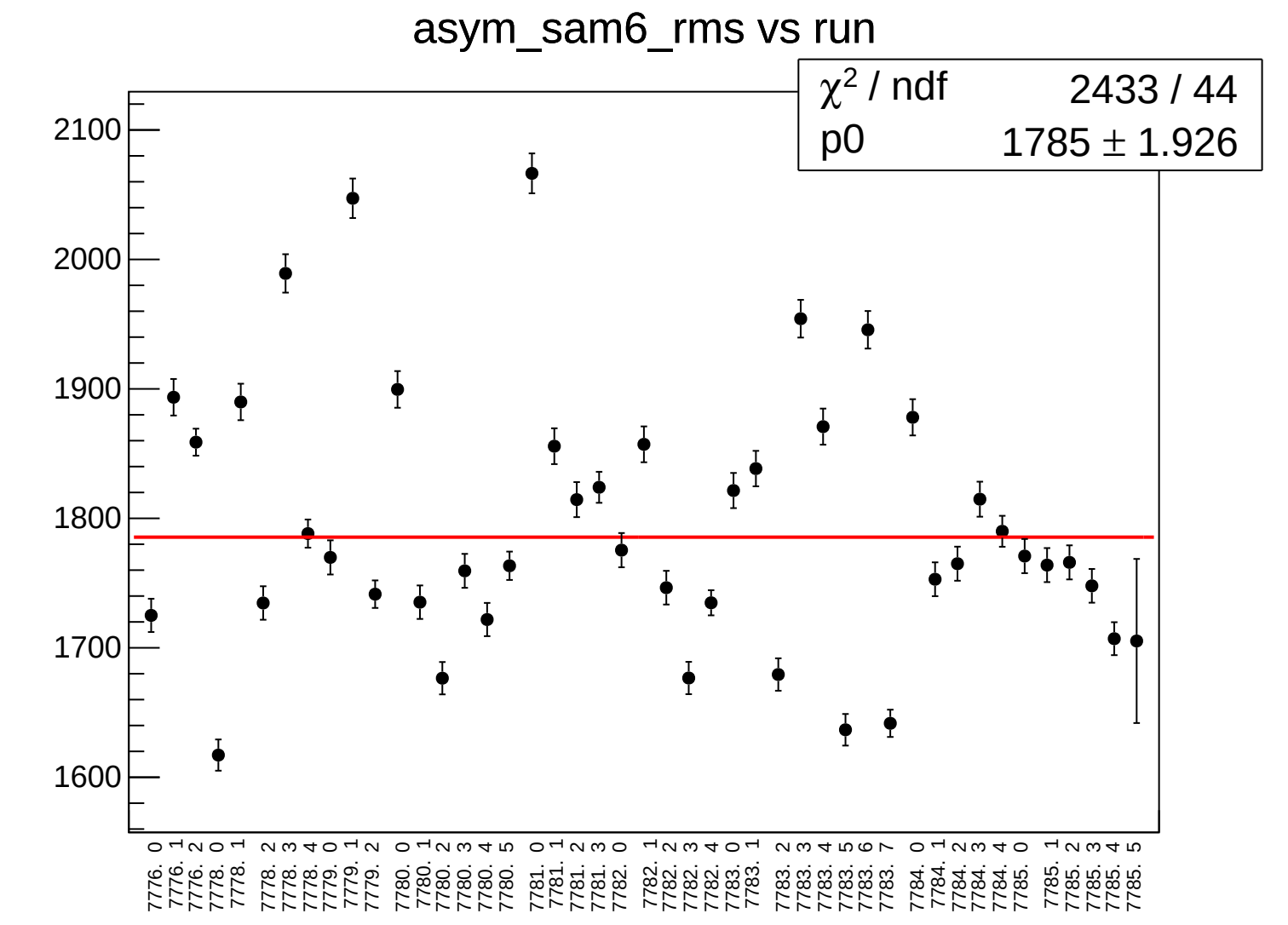

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 46.26 / 44
p0 −1950 ± 2732
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.752
Std Dev 35.88
2
1
0
−1
−2

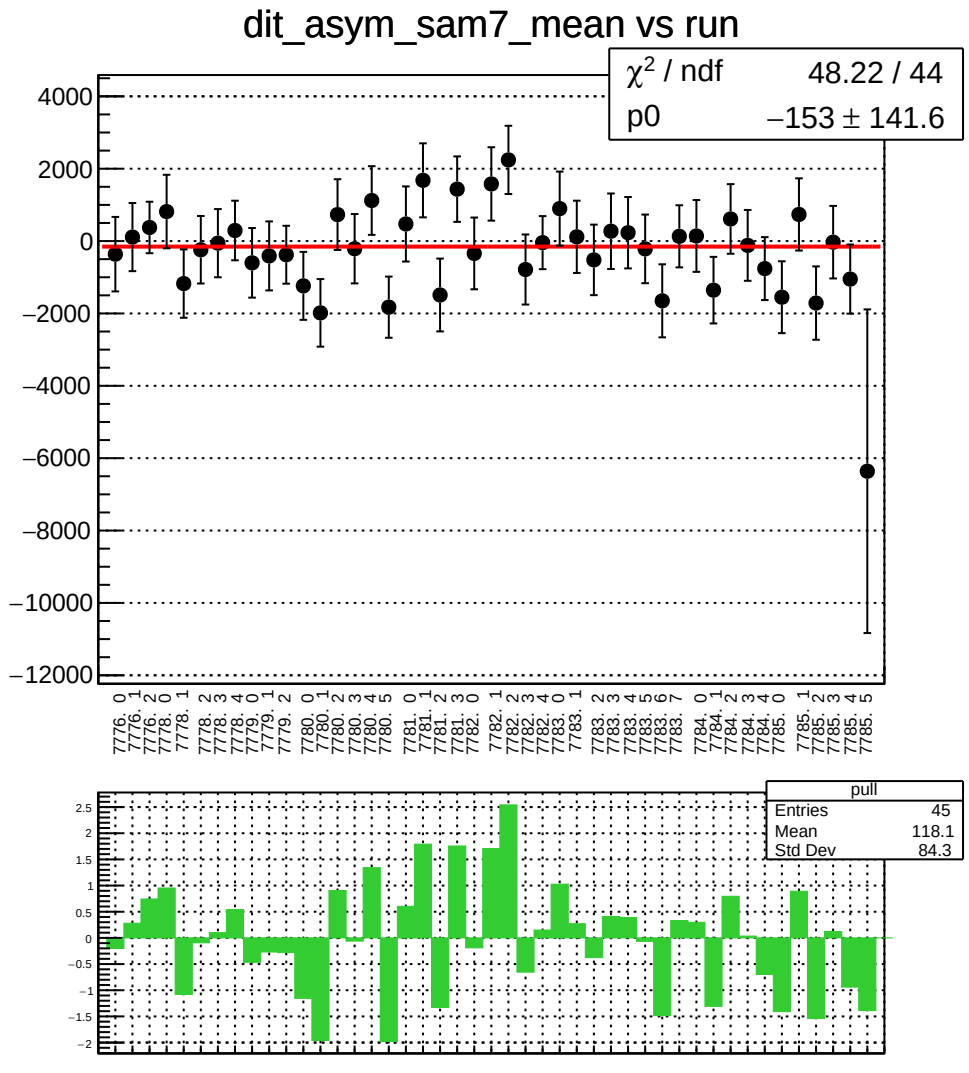

pull1D
Entries 45
Mean 0.0163
Std Dev 1.014
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

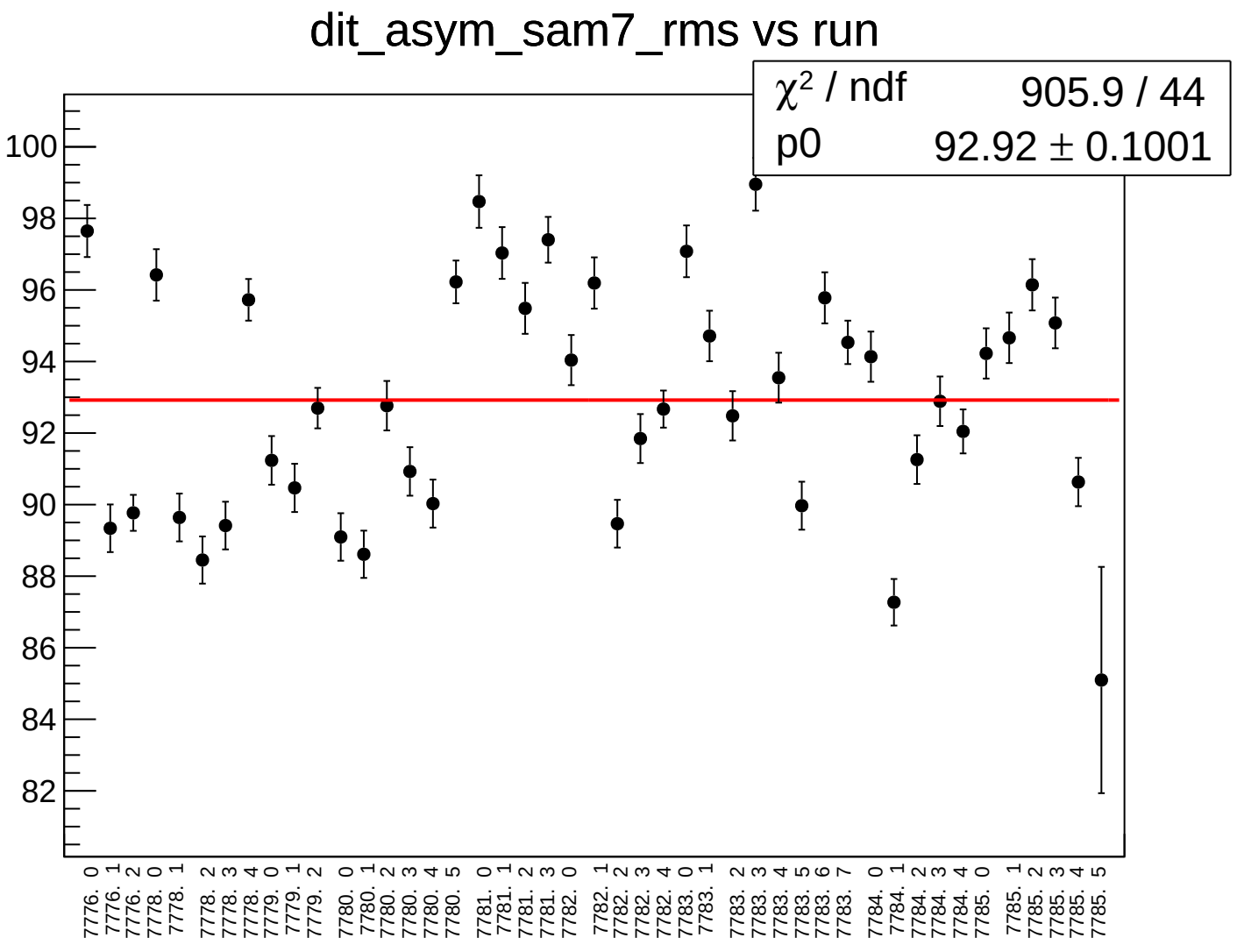

asym_sam6_correction_rms vs run
χ² / ndf 2245 / 44
p0 1792 ± 1.932
2100
2000
1900
1800
1700
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

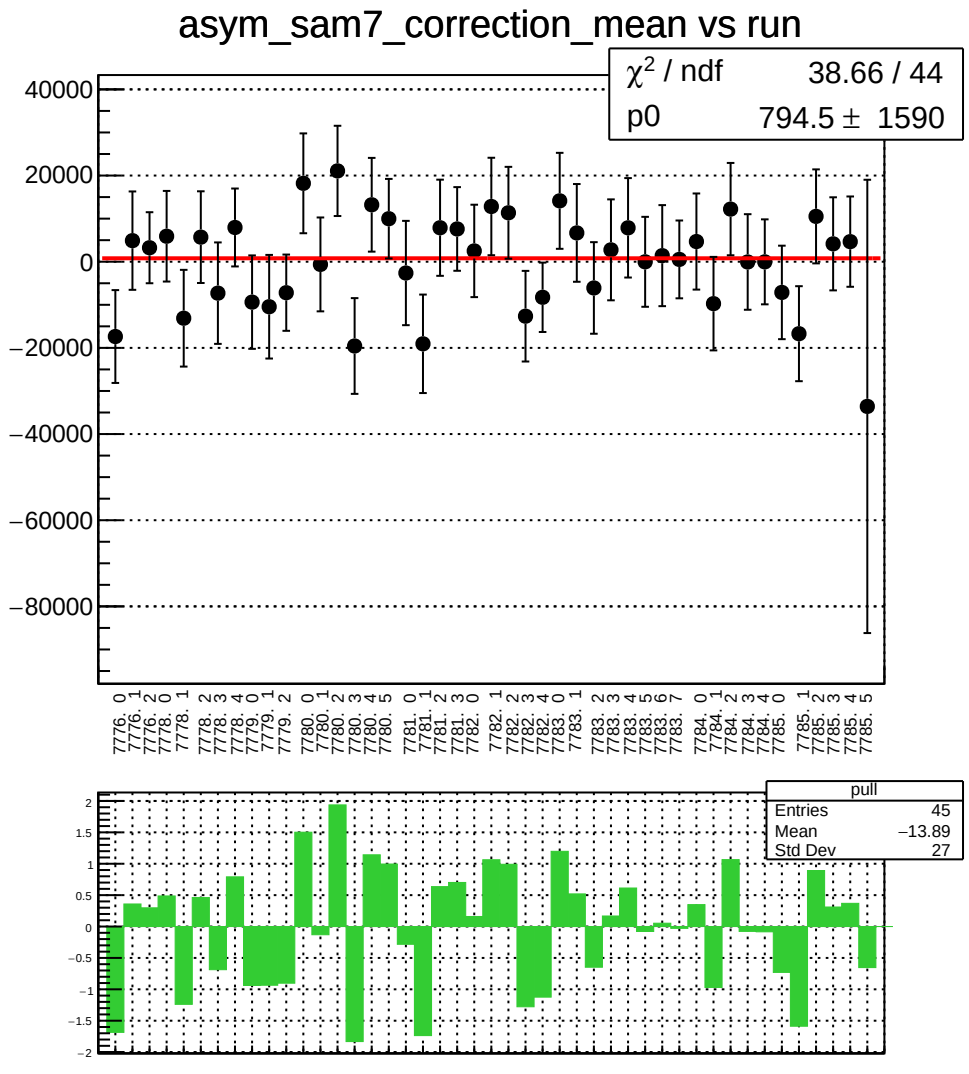

asym_sam6_mean vs run
×10^3
χ^2 / ndf 46.71 / 44
p0 1663 ± 2723
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 15.2
Std Dev 44.27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

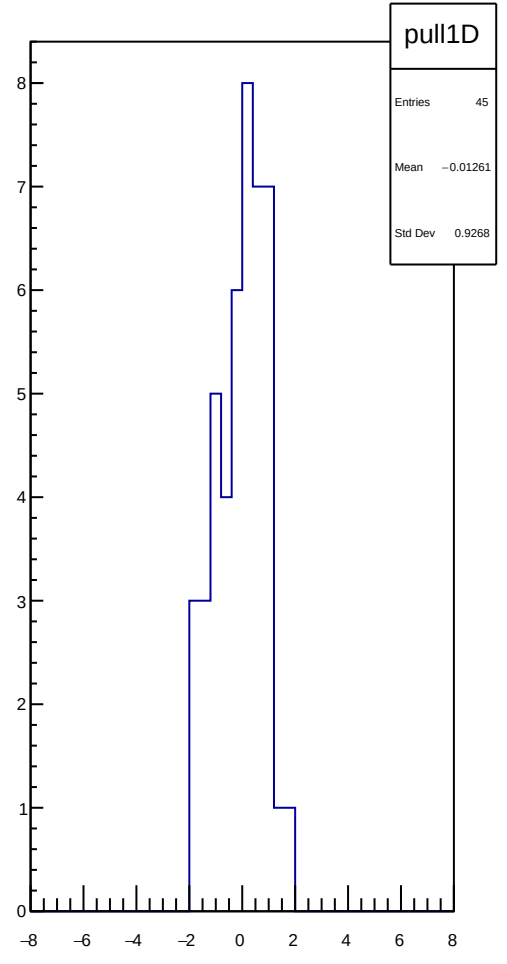

pull1D
Entries 45
Mean −0.01311
Std Dev 1.019
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

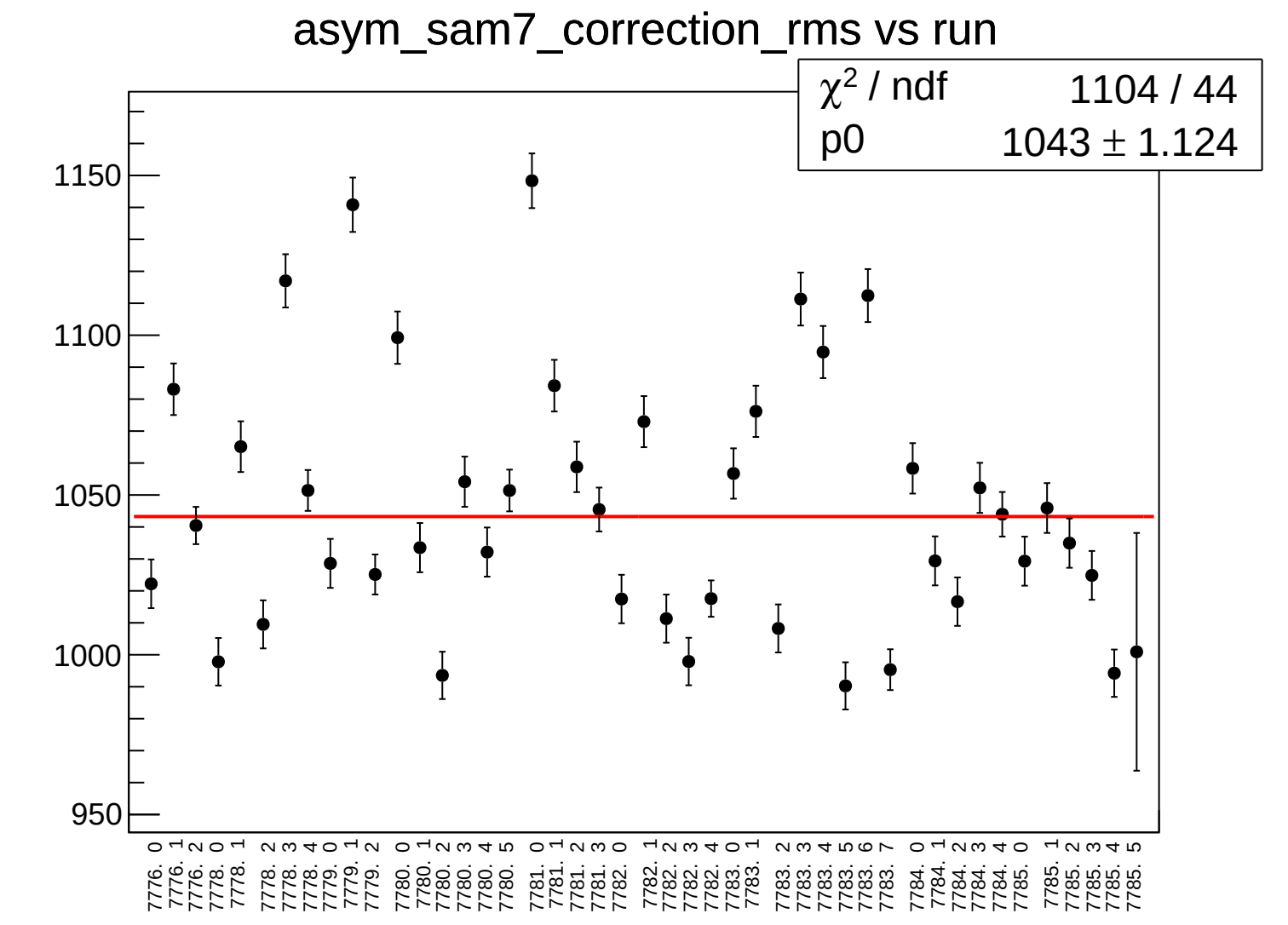

asym_sam6_rms vs run
χ² / ndf 2433 / 44
p0 1785 ± 1.926
2100
2000
1900
1800
1700
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

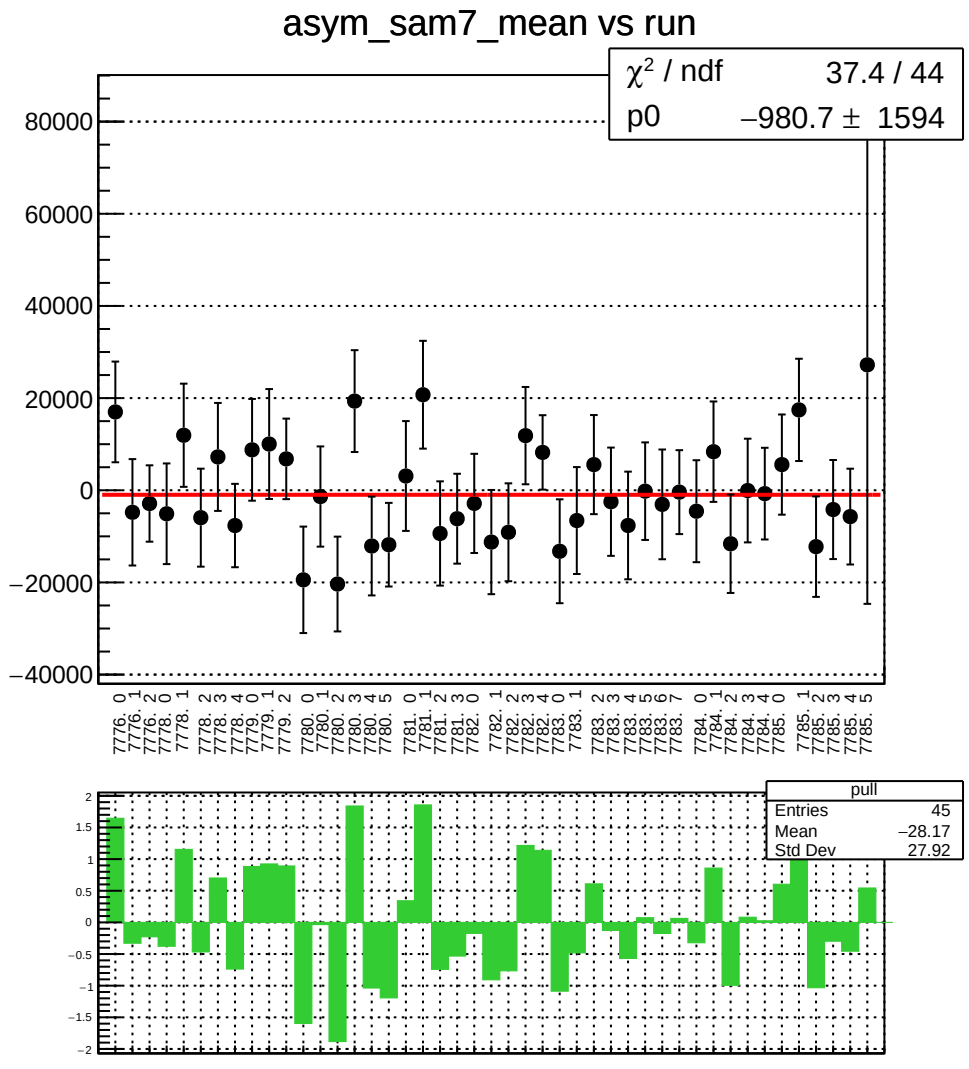

dit_asym_sam7_mean vs run
χ² / ndf 48.22 / 44
p0 −153 ± 141.6
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 118.1
Std Dev 84.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.02113
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

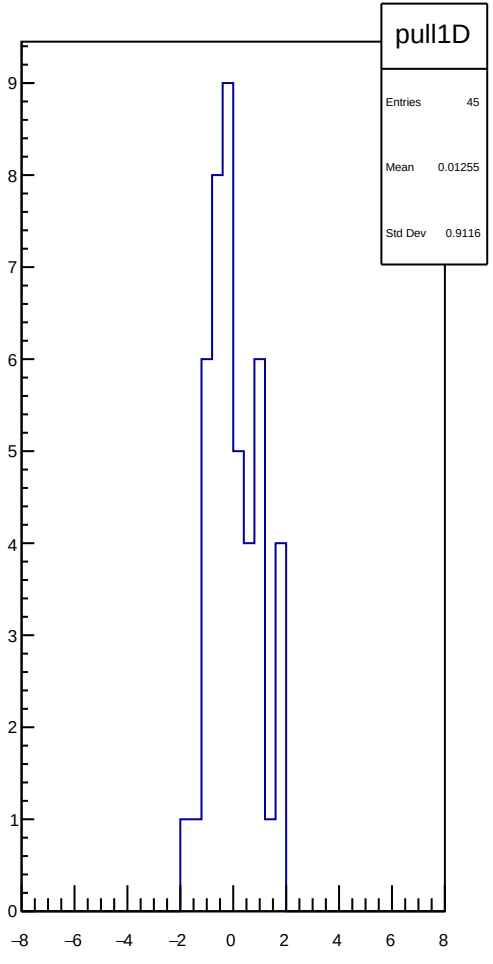

dit_asym_sam7_rms vs run
χ² / ndf 905.9 / 44
p0 92.92 ± 0.1001
100
98
96
94
92
90
88
86
84
82
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

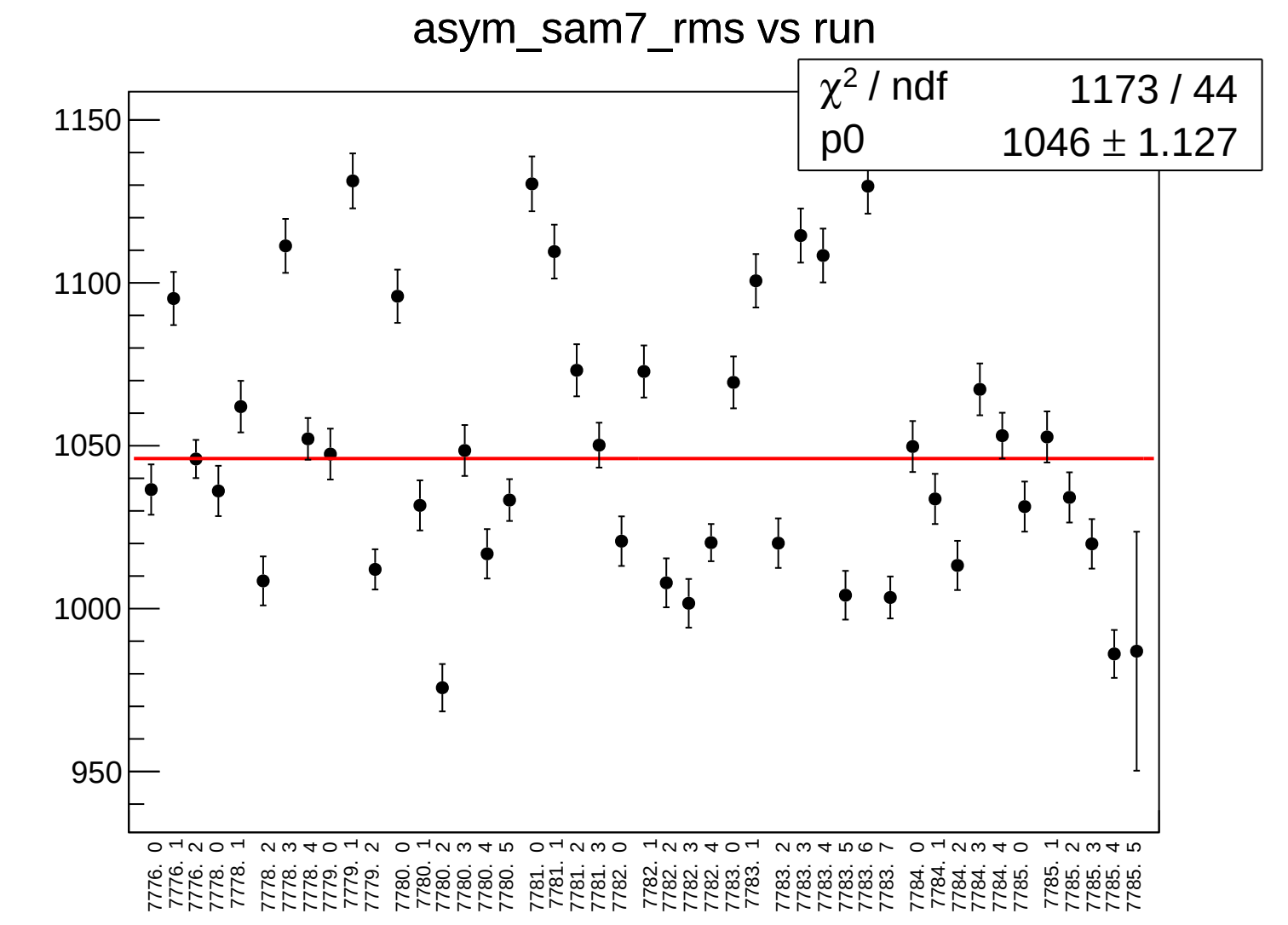

asym_sam7_correction_mean vs run
χ² / ndf 38.66 / 44
p0 794.5 ± 1590
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.89
Std Dev 27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

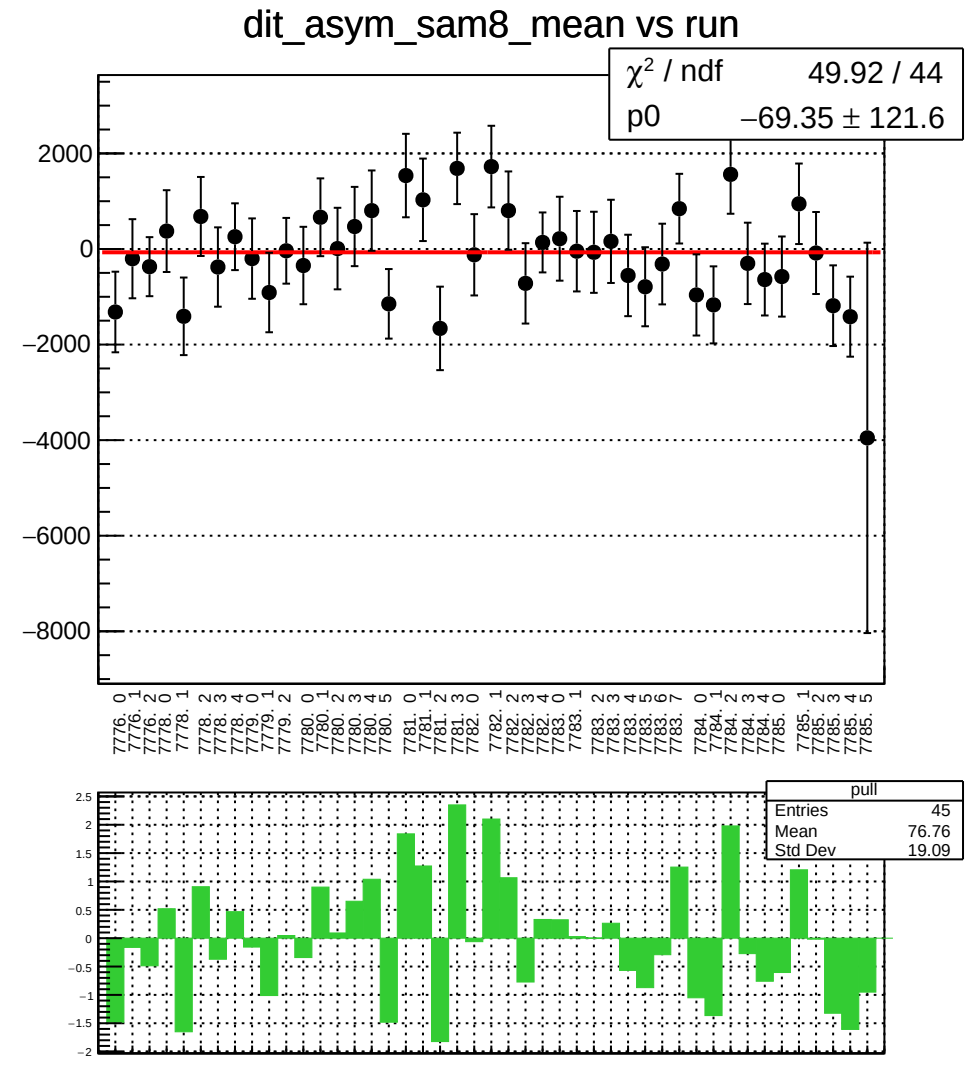

pull1D
Entries 45
Mean −0.01261
Std Dev 0.9268
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

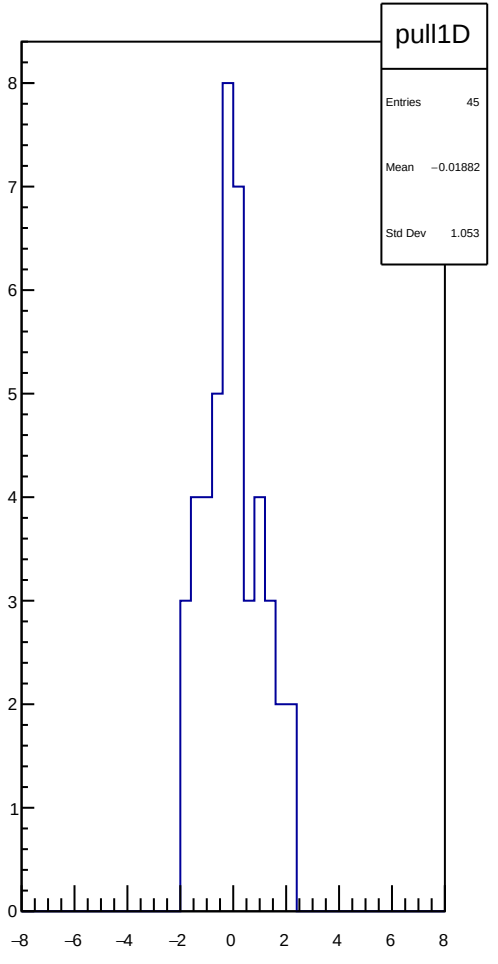

asym_sam7_correction_rms vs run
χ² / ndf 1104 / 44
p0 1043 ± 1.124
1150
1100
1050
1000
950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

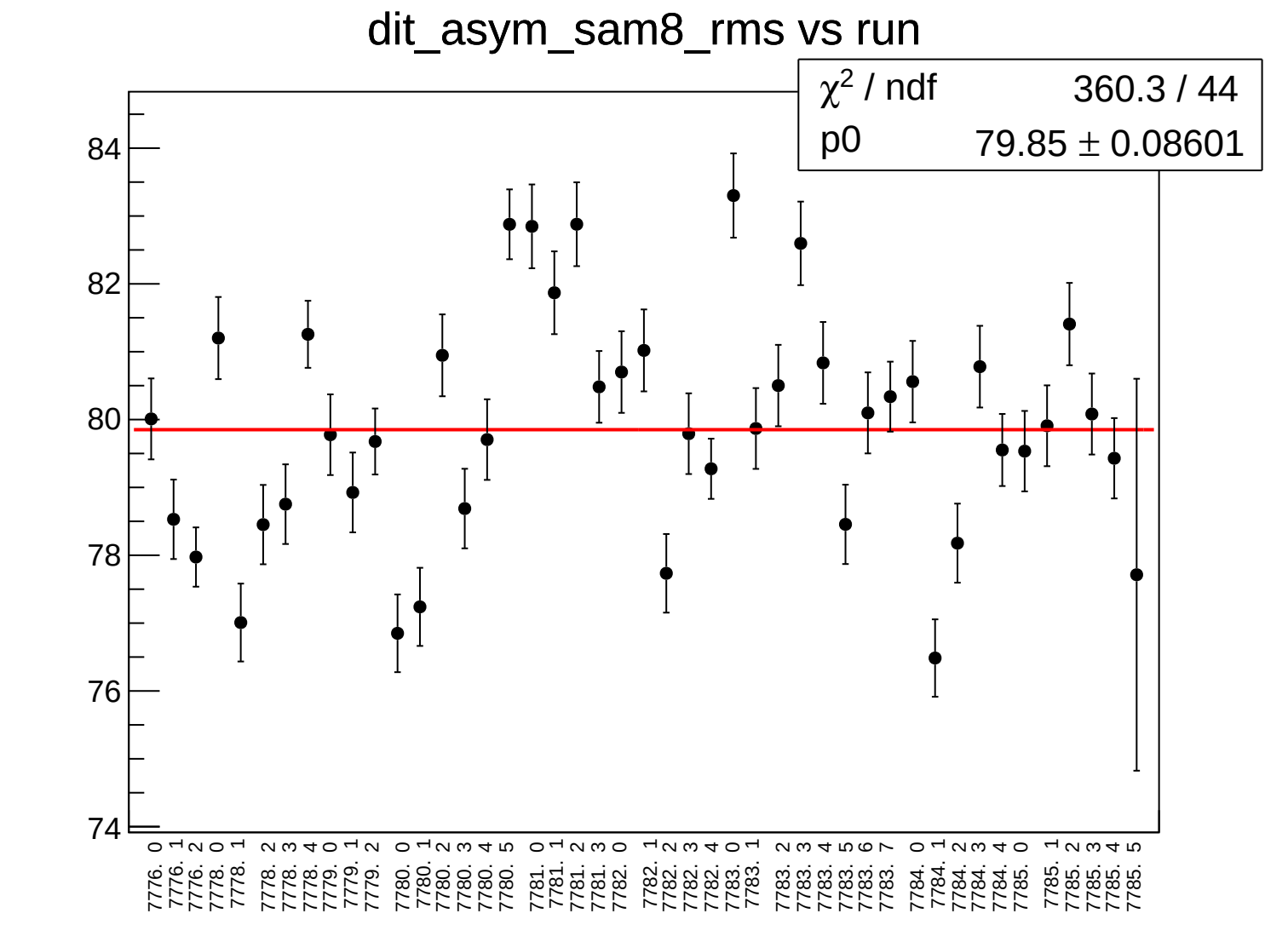

asym_sam7_mean vs run
χ² / ndf 37.4 / 44
p0 −980.7 ± 1594
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −28.17
Std Dev 27.92
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

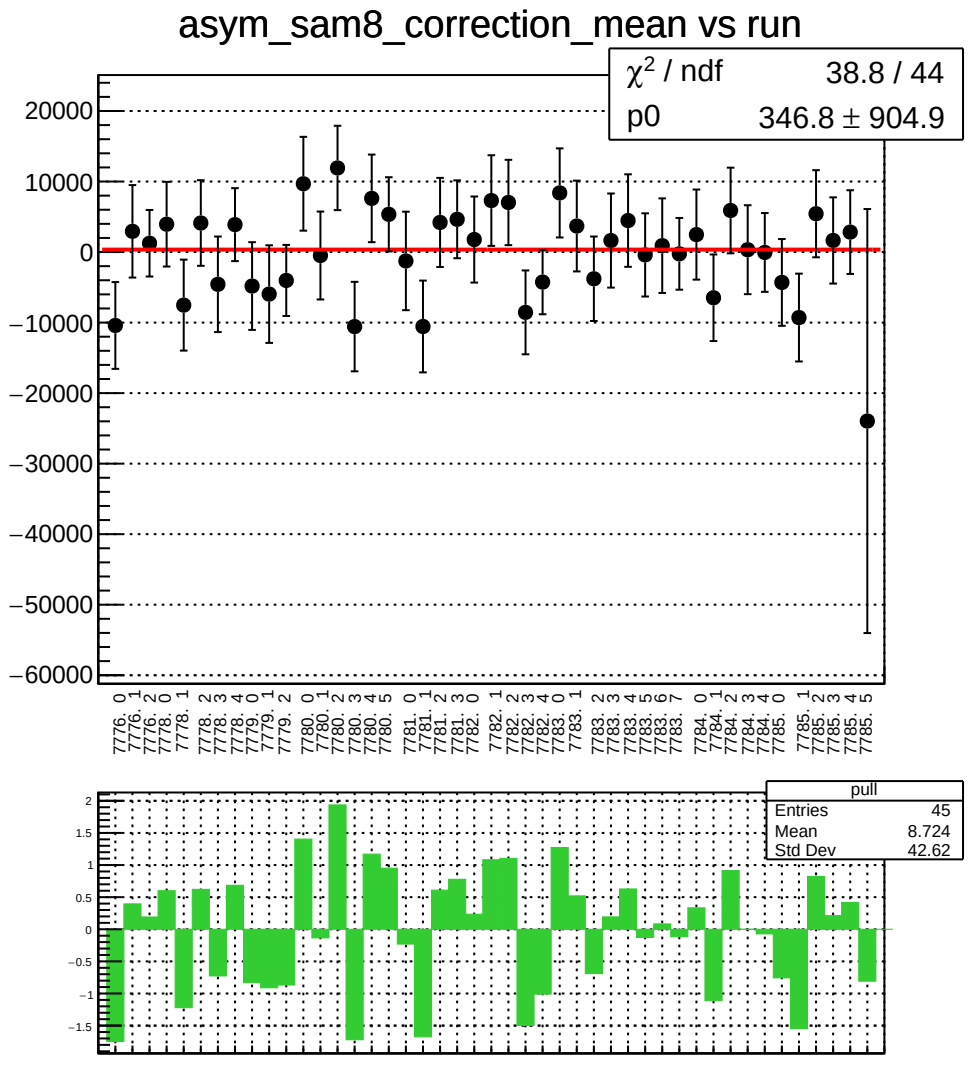

pull1D
Entries 45
Mean 0.01255
Std Dev 0.9116
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

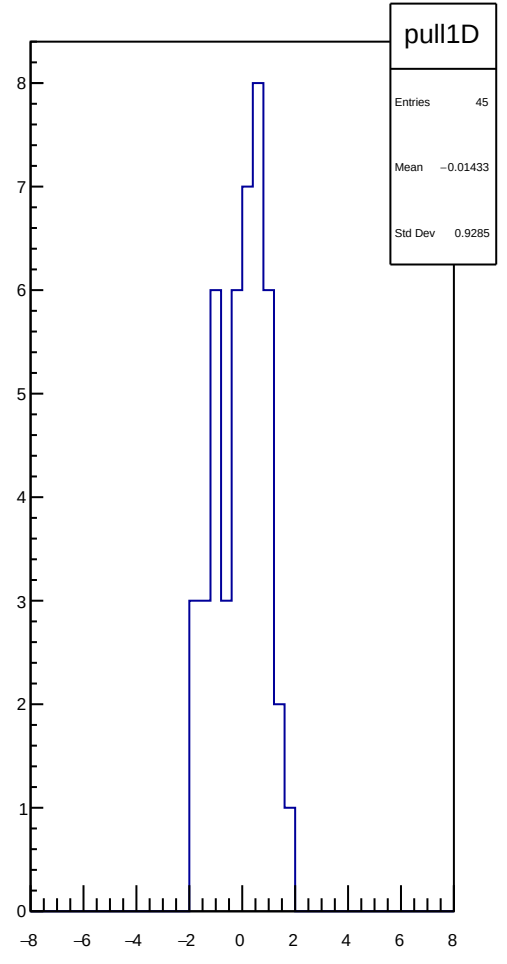

asym_sam7_rms vs run
χ² / ndf 1173 / 44
p0 1046 ± 1.127
1150
1100
1050
1000
950
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

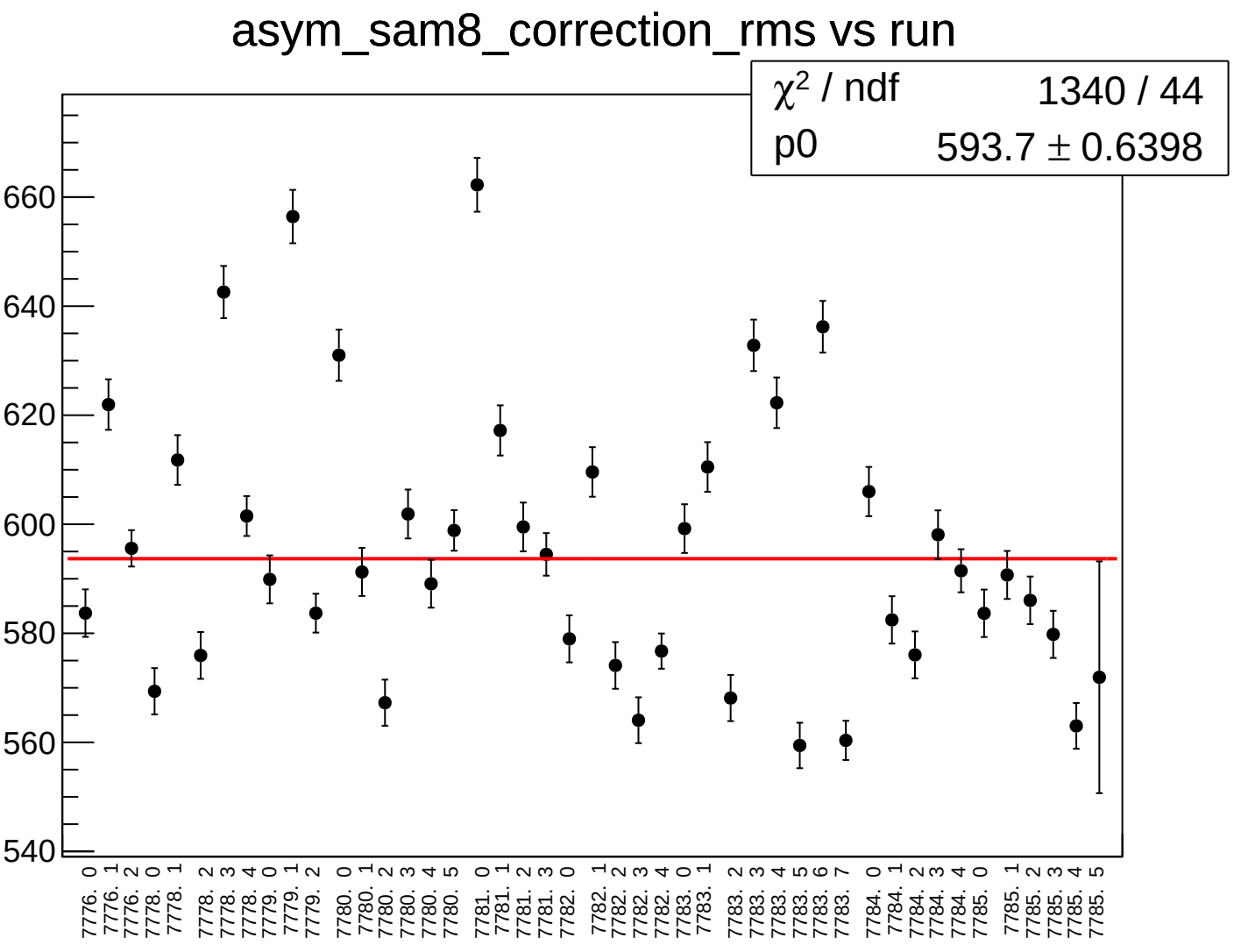

dit_asym_sam8_mean vs run
χ² / ndf 49.92 / 44
p0 −69.35 ± 121.6
2000
0
−2000
−4000
−6000
−8000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 76.76
Std Dev 19.09
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

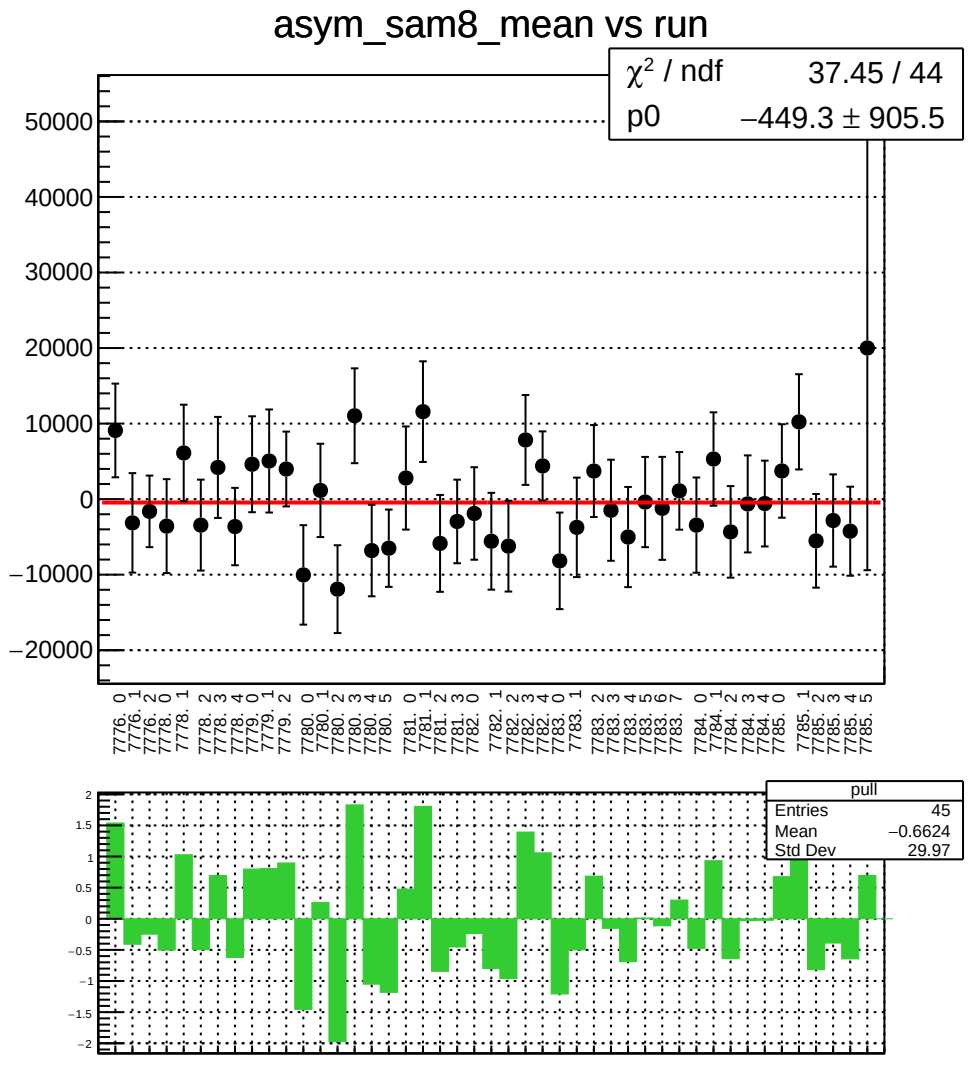

pull1D
Entries 45
Mean −0.01882
Std Dev 1.053
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

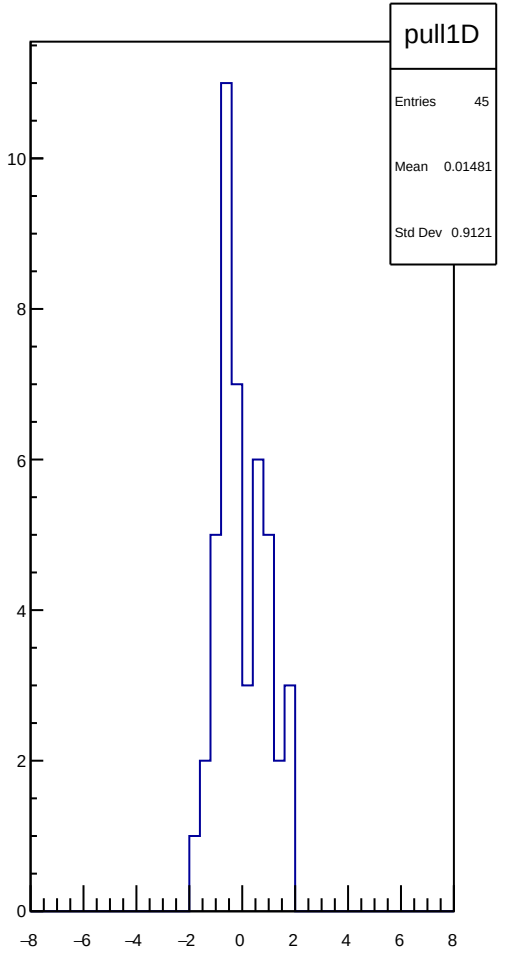

dit_asym_sam8_rms vs run
χ² / ndf 360.3 / 44
p0 79.85 ± 0.08601
84
82
80
78
76
74
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

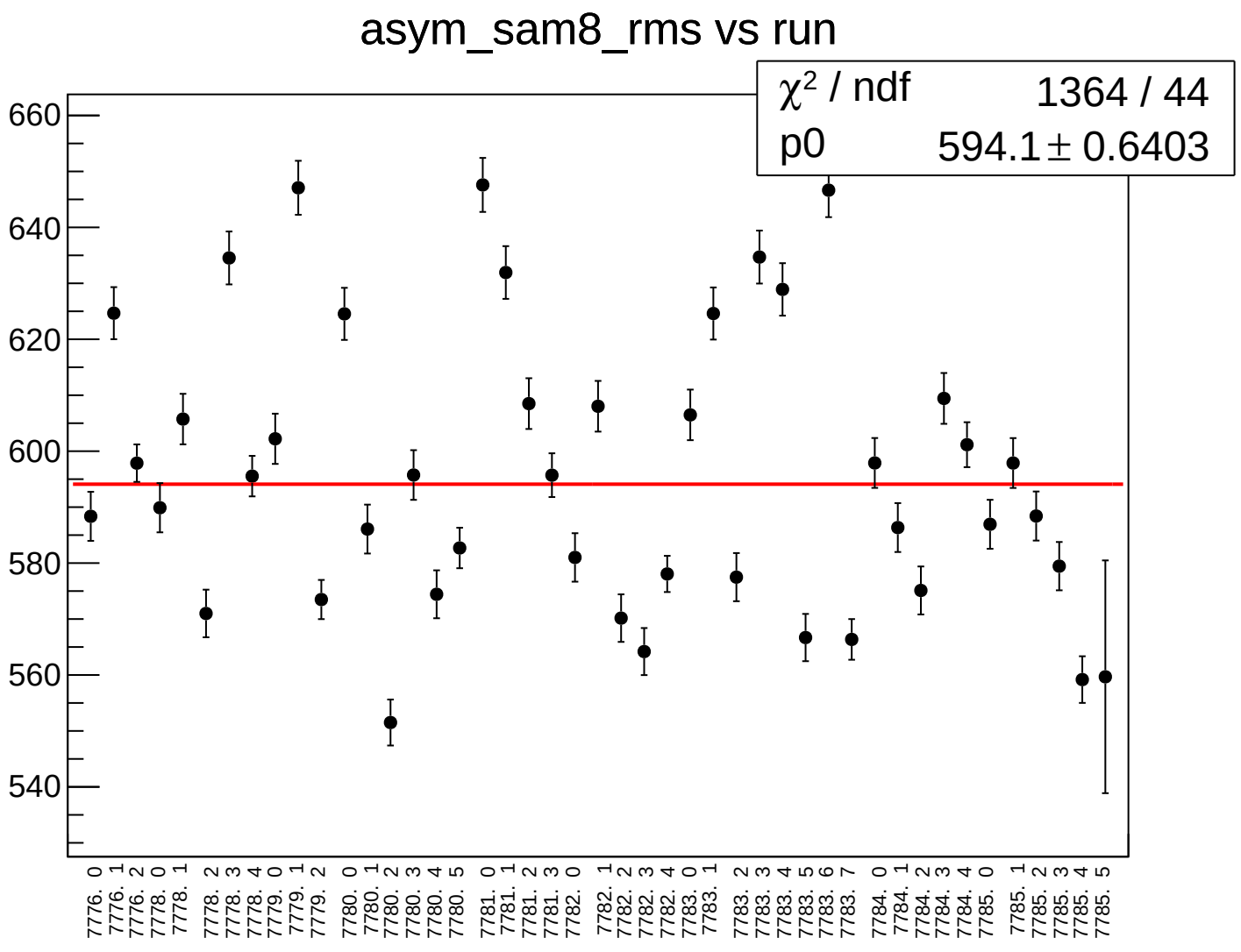

asym_sam8_correction_mean vs run
χ² / ndf 38.8 / 44
p0 346.8 ± 904.9
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 8.724
Std Dev 42.62
2
1.5
1
0.5
0
−0.5
−1
−1.5

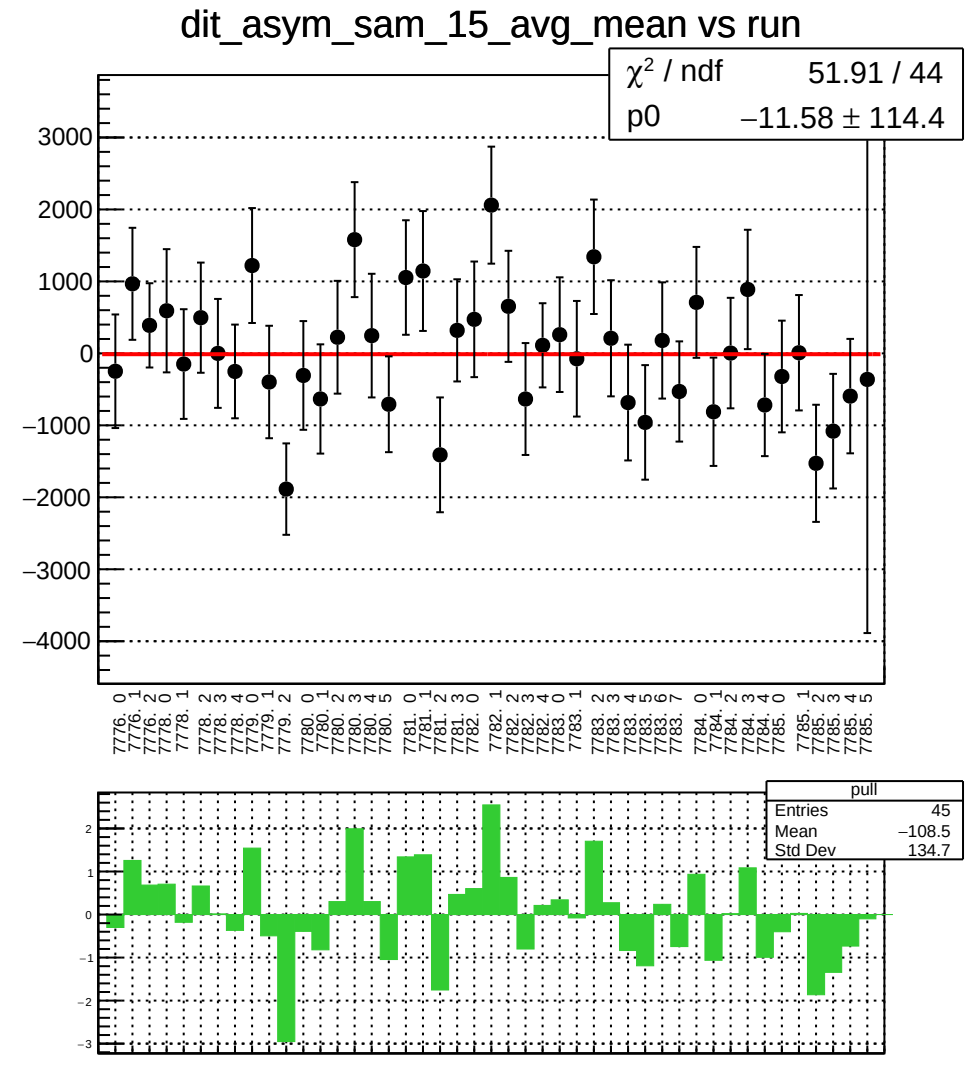

pull1D
Entries 45
Mean −0.01433
Std Dev 0.9285
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

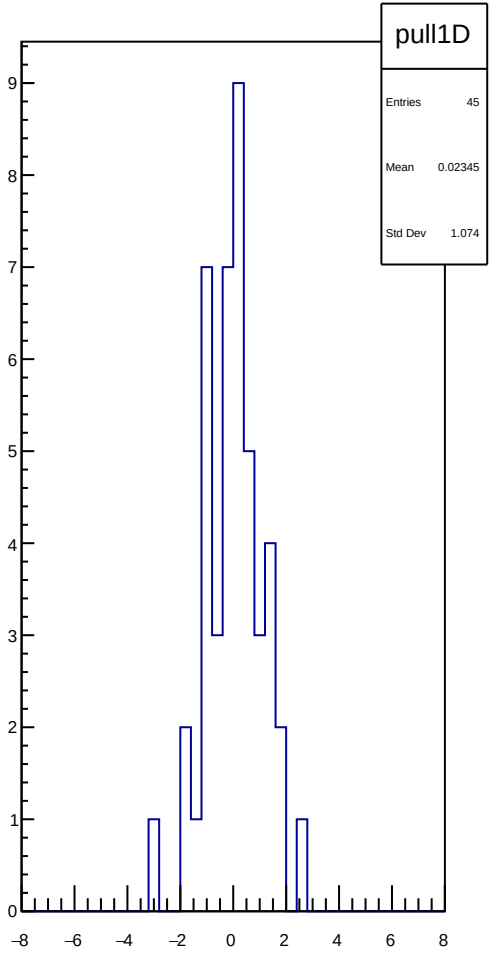

asym_sam8_correction_rms vs run
χ² / ndf 1340 / 44
p0 593.7 ± 0.6398
660
640
620
600
580
560
540
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

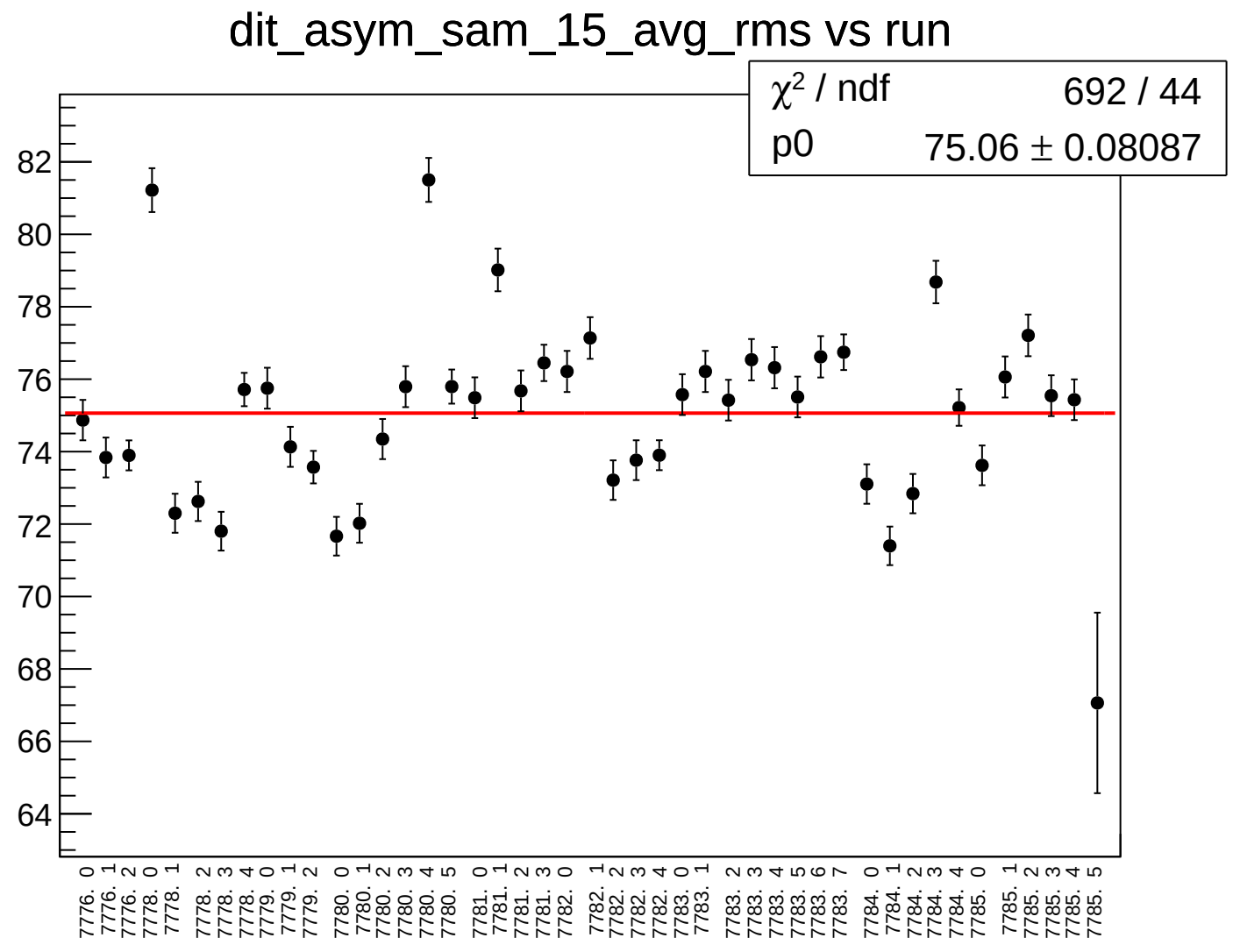

asym_sam8_mean vs run
χ² / ndf 37.45 / 44
p0 −449.3 ± 905.5
50000
40000
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −0.6624
Std Dev 29.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

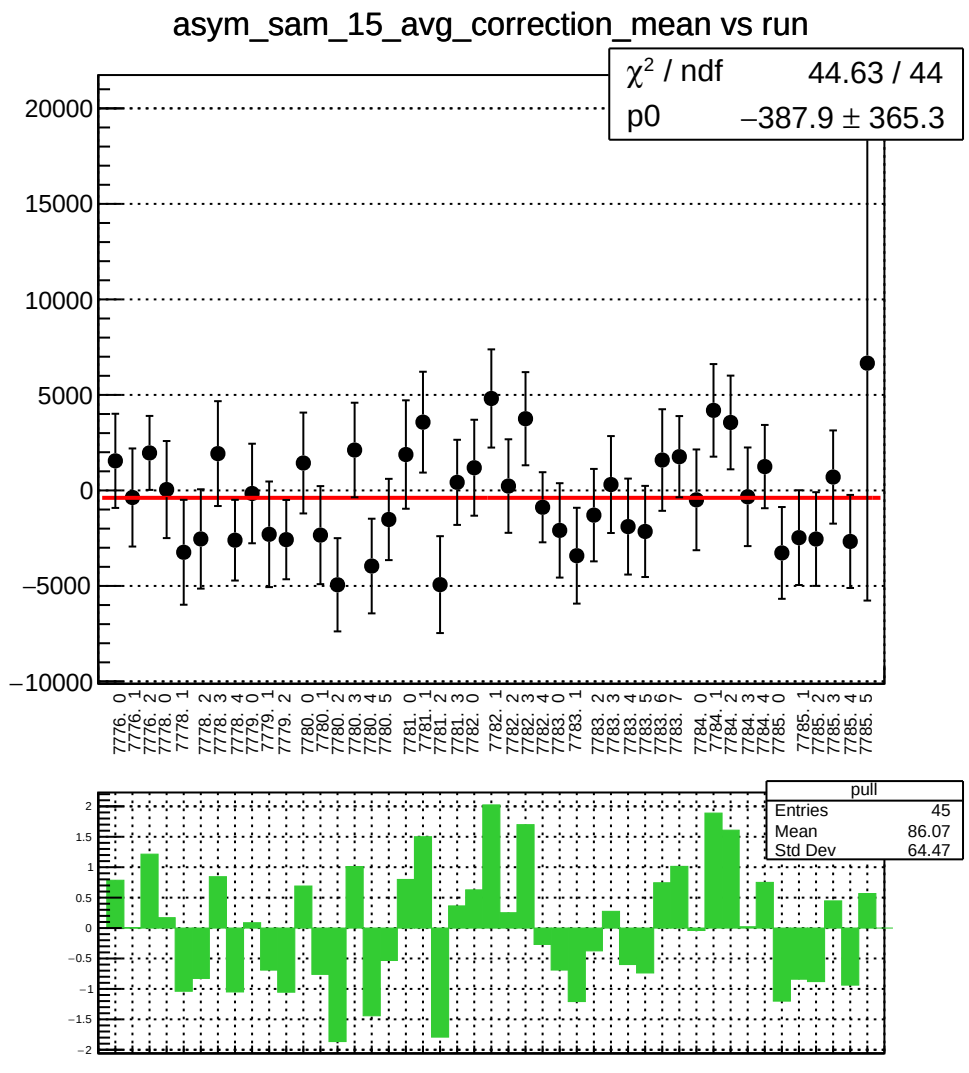

pull1D
Entries 45
Mean 0.01481
Std Dev 0.9121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

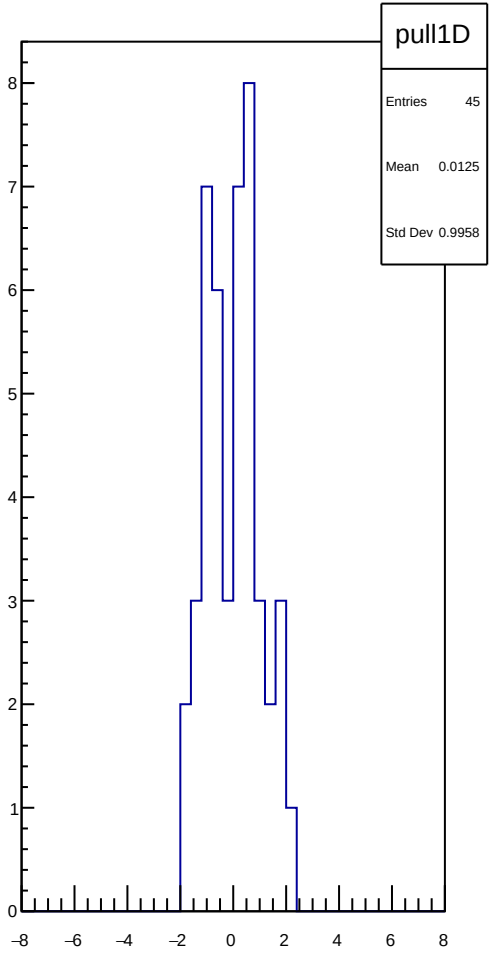

asym_sam8_rms vs run
χ² / ndf 1364 / 44
p0 594.1 ± 0.6403
660
640
620
600
580
560
540
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

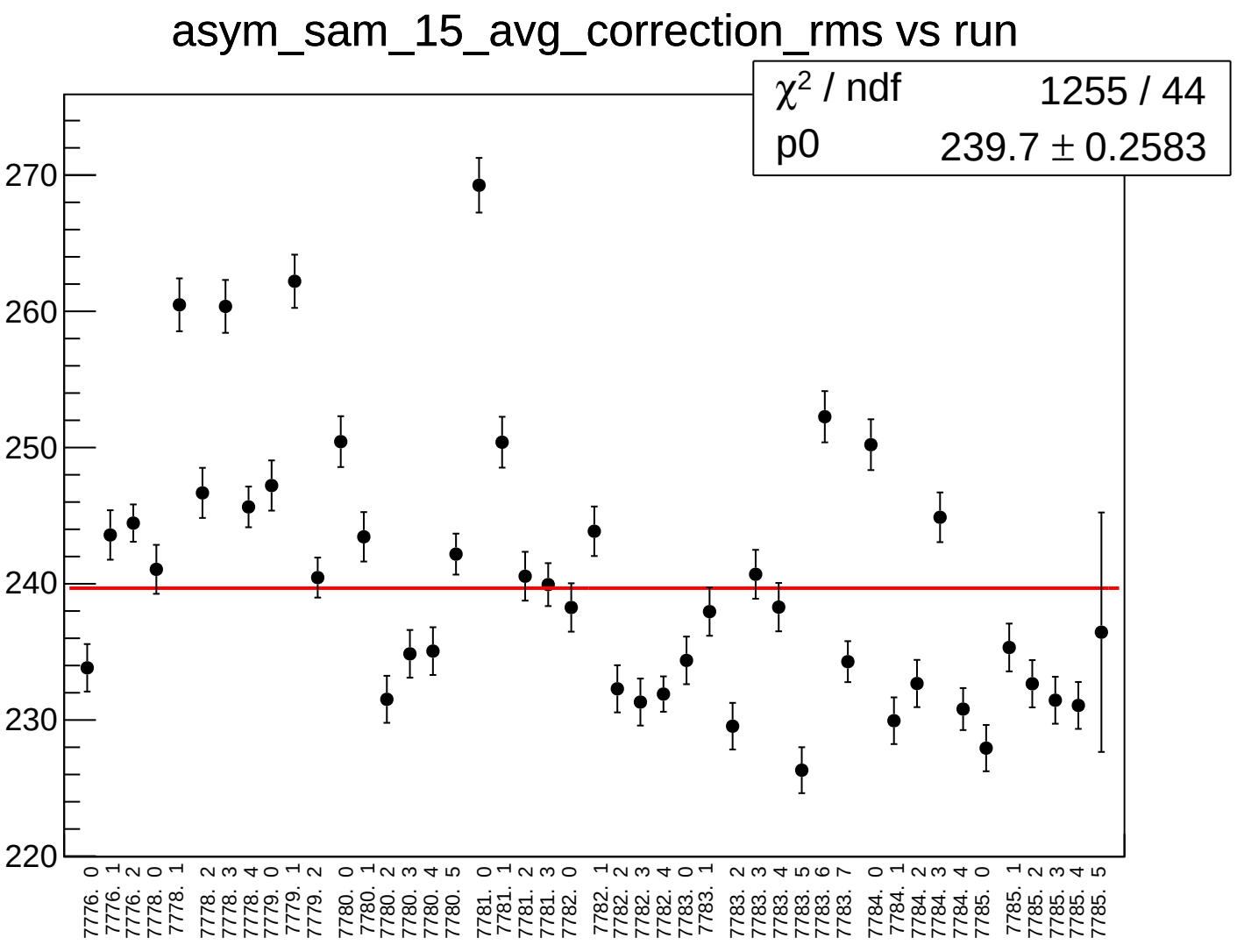

dit_asym_sam_15_avg_mean vs run
χ² / ndf 51.91 / 44
p0 −11.58 ± 114.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −108.5
Std Dev 134.7
2
1
0
−1
−2
−3

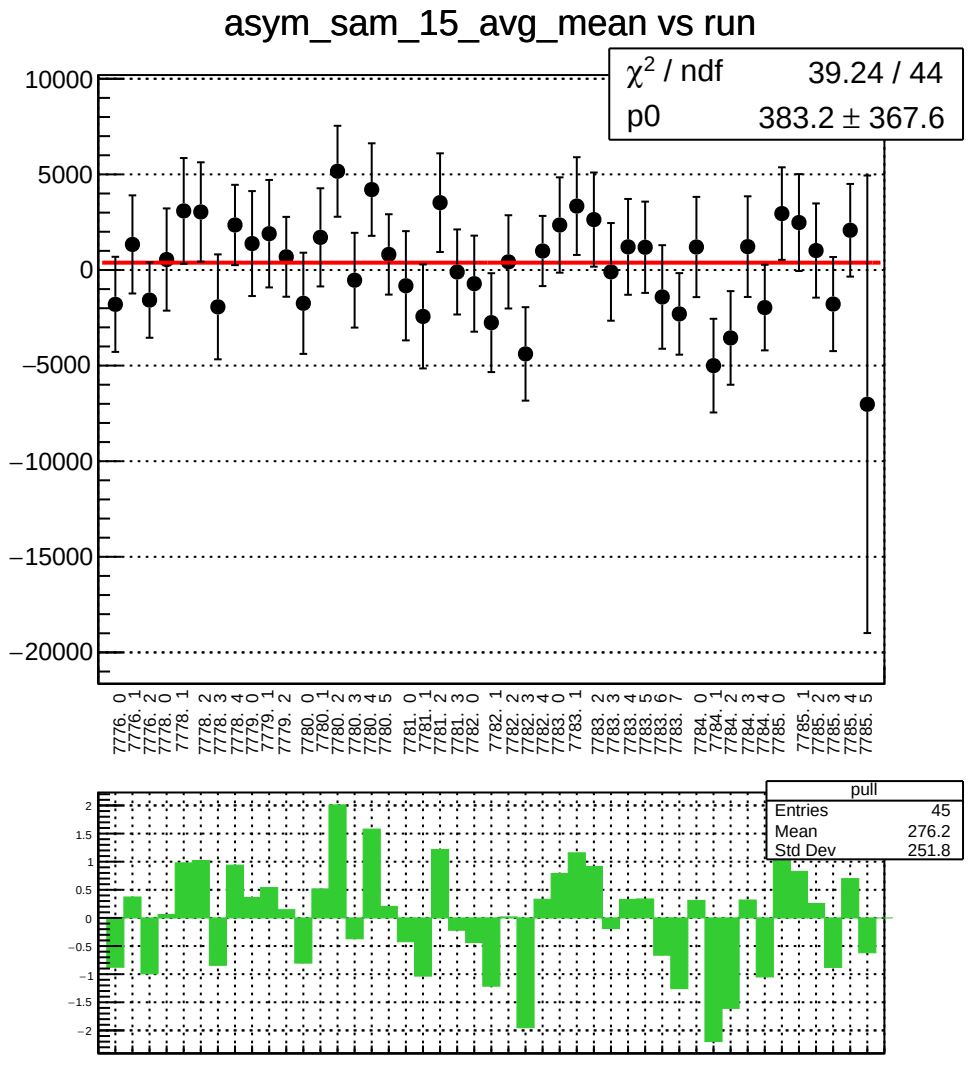

pull1D
Entries 45
Mean 0.02345
Std Dev 1.074
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

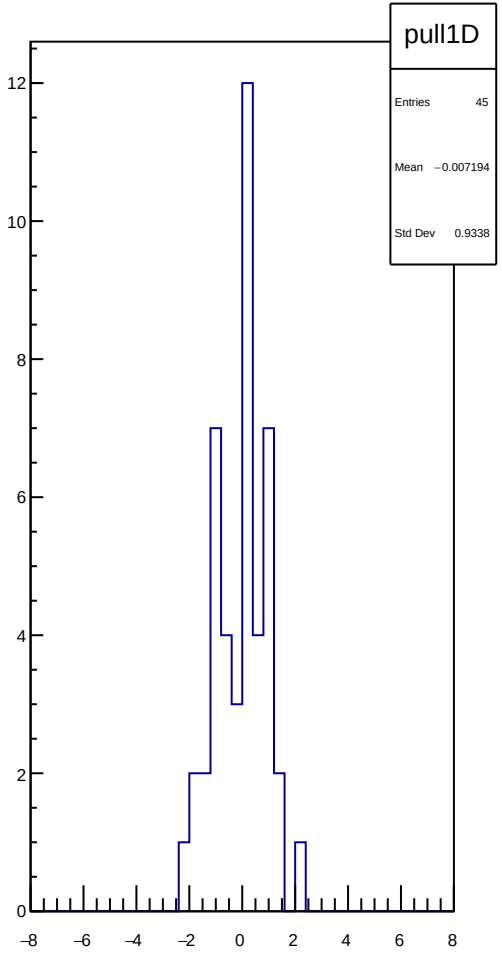

dit_asym_sam_15_avg_rms vs run
χ² / ndf 692 / 44
p0 75.06 ± 0.08087
82
80
78
76
74
72
70
68
66
64
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

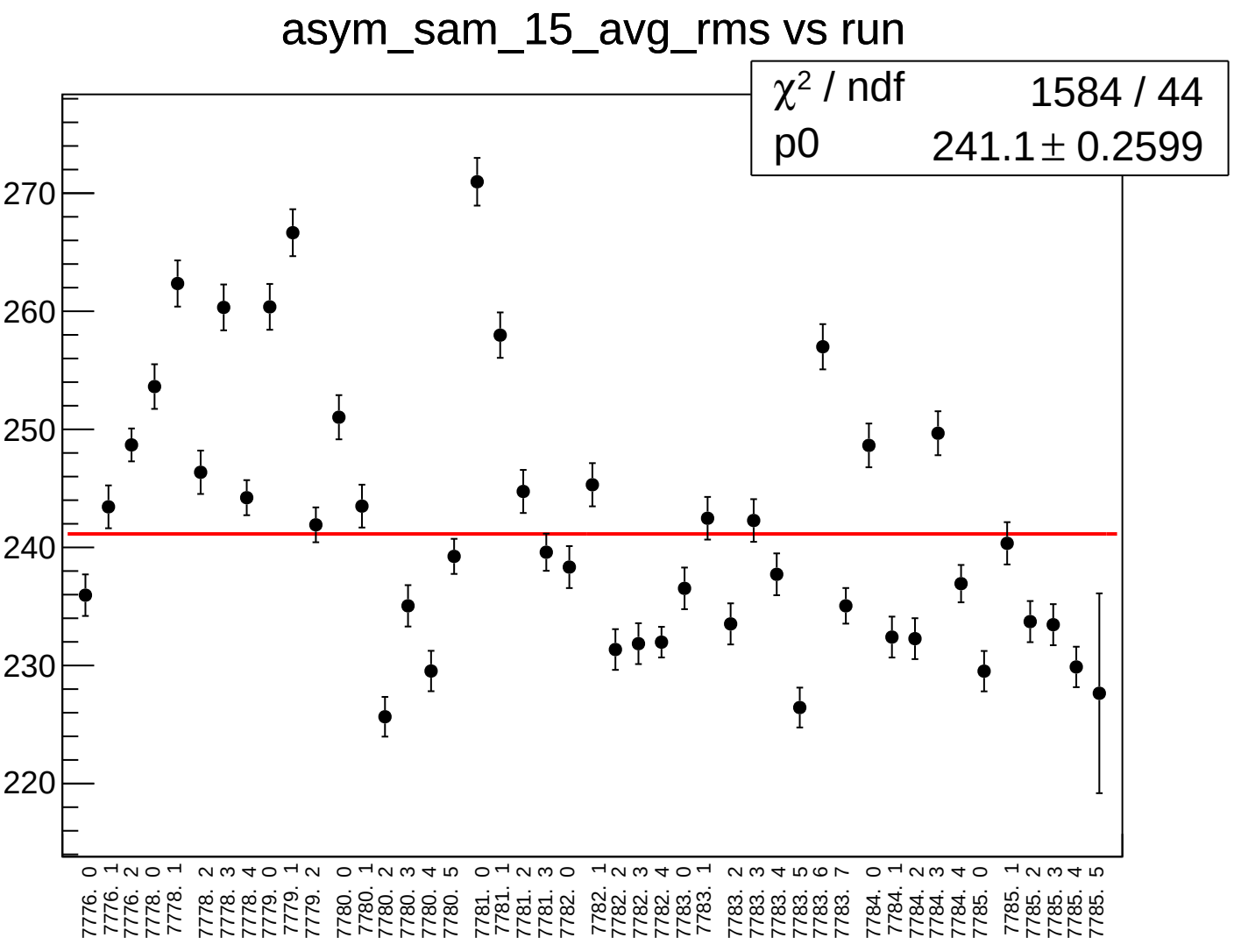

asym_sam_15_avg_correction_mean vs run
χ² / ndf 44.63 / 44
p0 −387.9 ± 365.3
20000
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 86.07
Std Dev 64.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

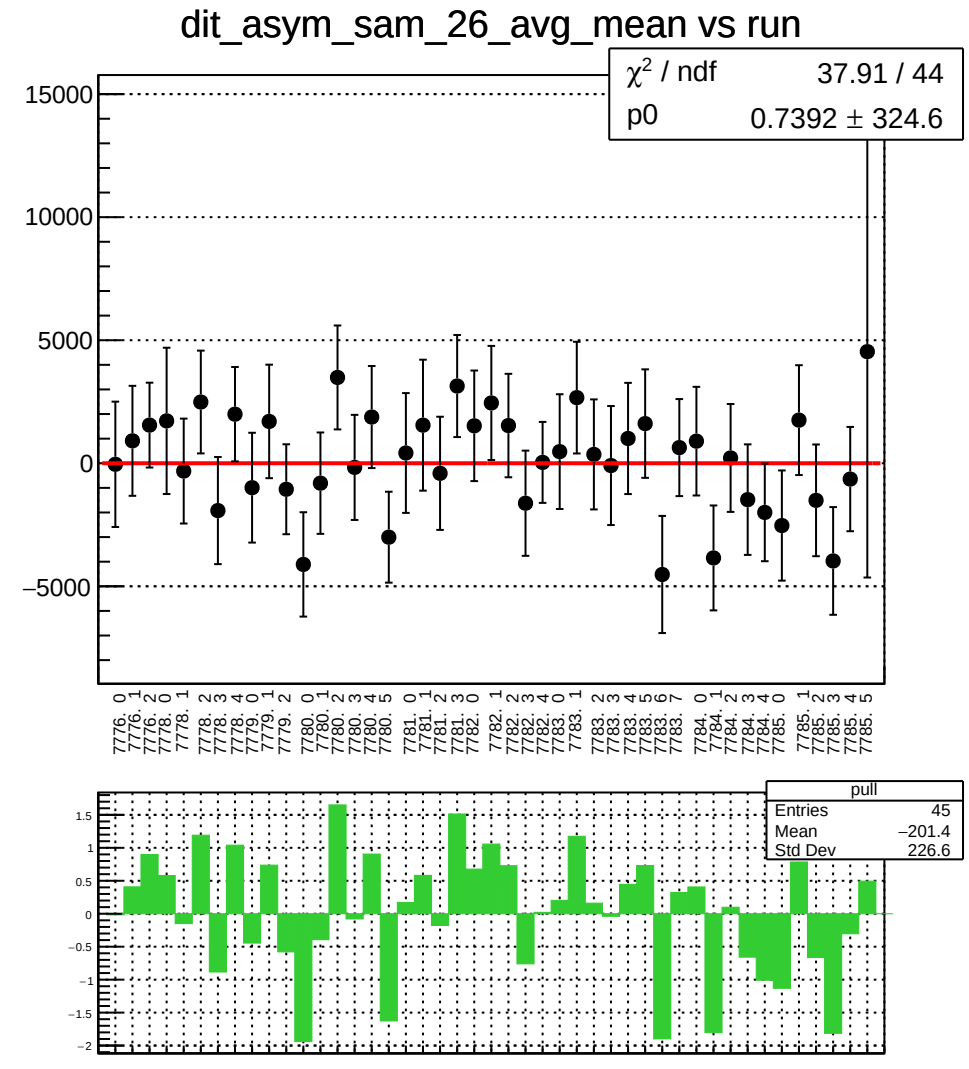

pull1D
Entries 45
Mean 0.0125
Std Dev 0.9958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

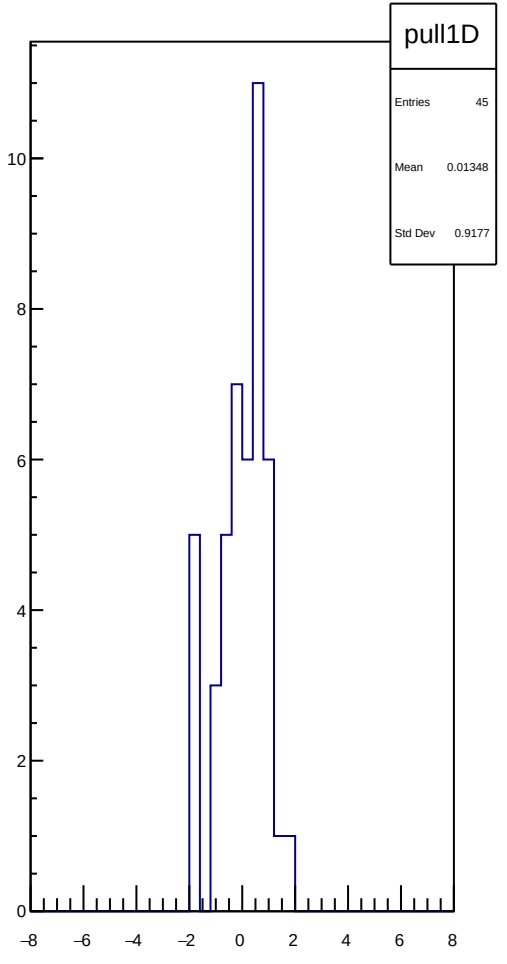

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1255 / 44
p0 239.7 ± 0.2583
270
260
250
240
230
220
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

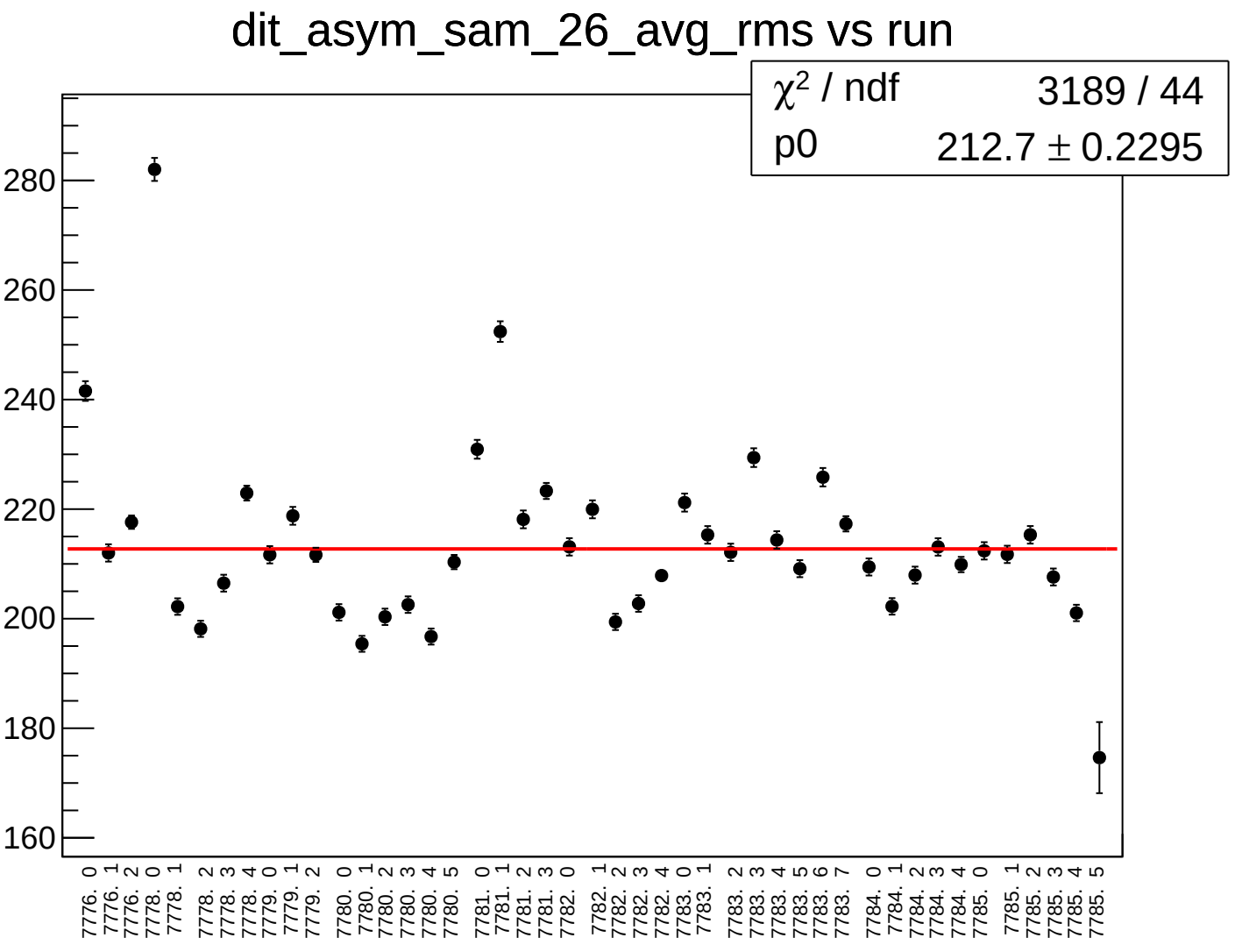

asym_sam_15_avg_mean vs run
χ² / ndf 39.24 / 44
p0 383.2 ± 367.6
10000
5000
0
−5000
−10000
−15000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 276.2
Std Dev 251.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

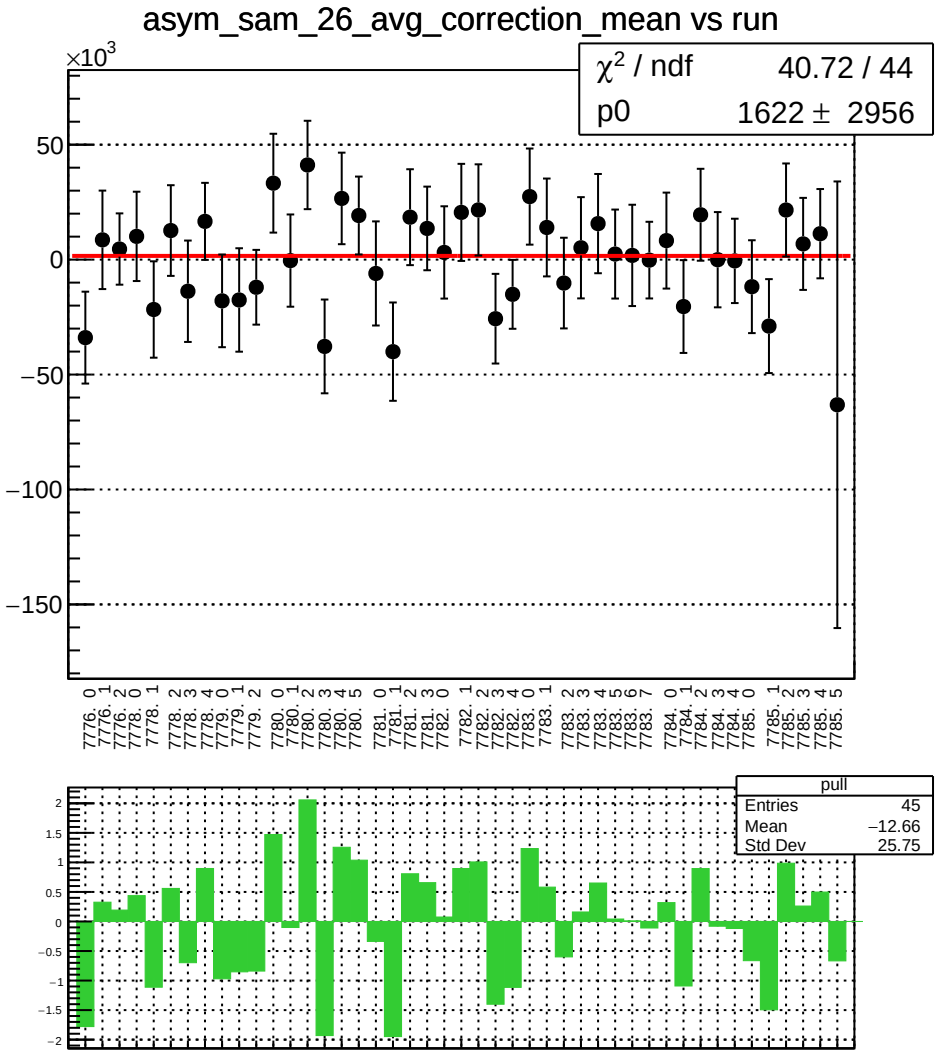

pull1D
Entries 45
Mean −0.007194
Std Dev 0.9338
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

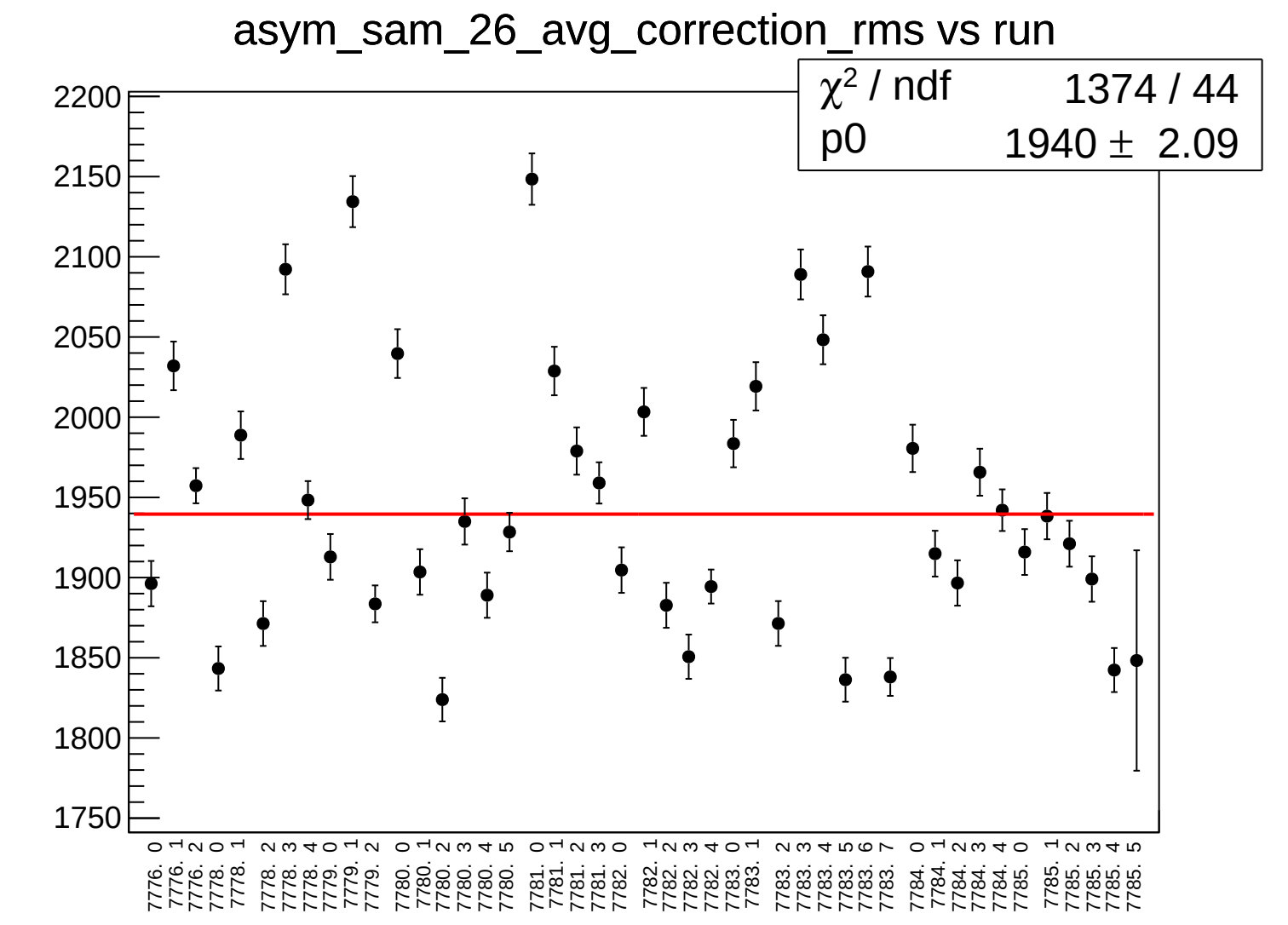

asym_sam_15_avg_rms vs run
χ² / ndf 1584 / 44
p0 241.1 ± 0.2599
270
260
250
240
230
220
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

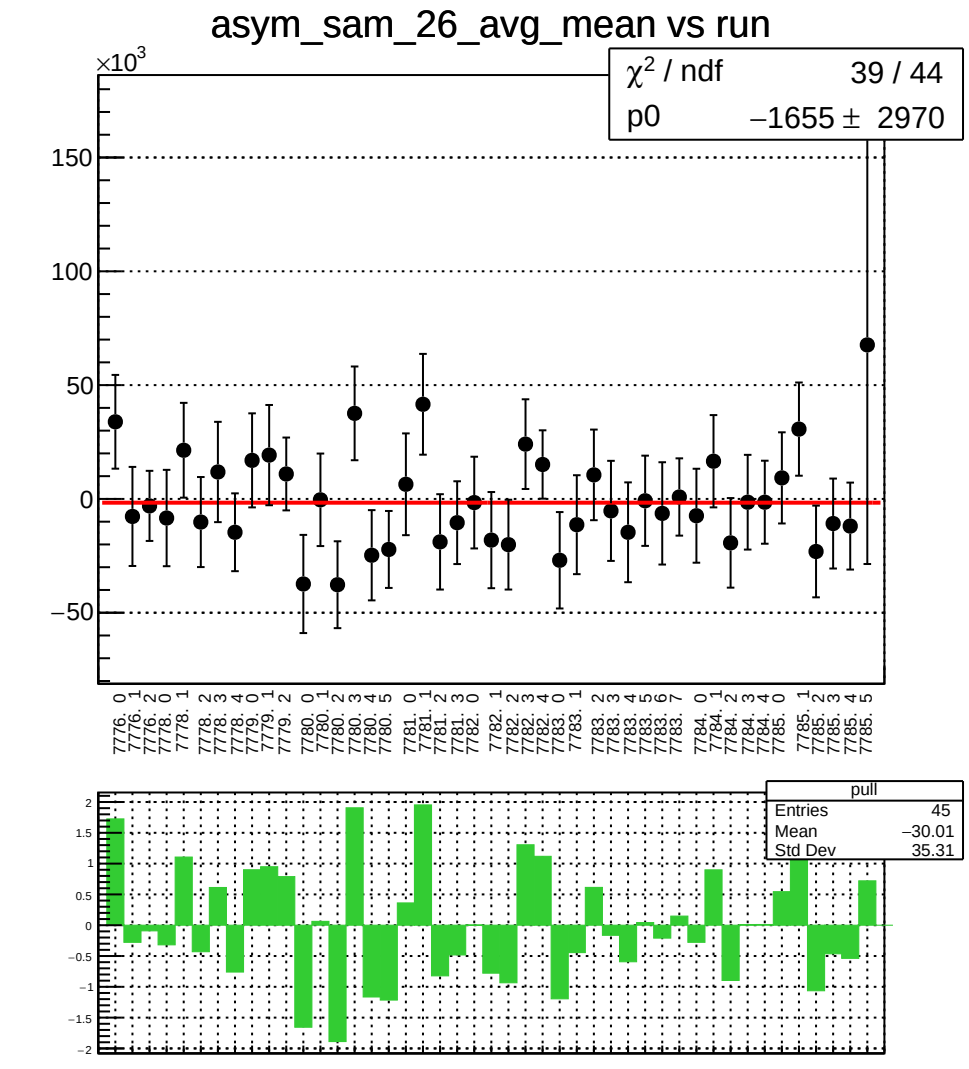

dit_asym_sam_26_avg_mean vs run
χ² / ndf 37.91 / 44
p0 0.7392 ± 324.6
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −201.4
Std Dev 226.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

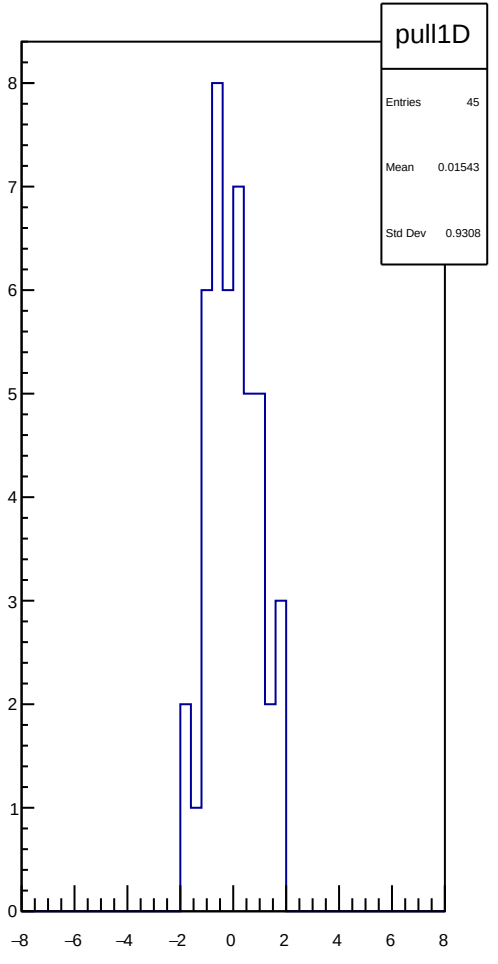

pull1D
Entries 45
Mean 0.01348
Std Dev 0.9177
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

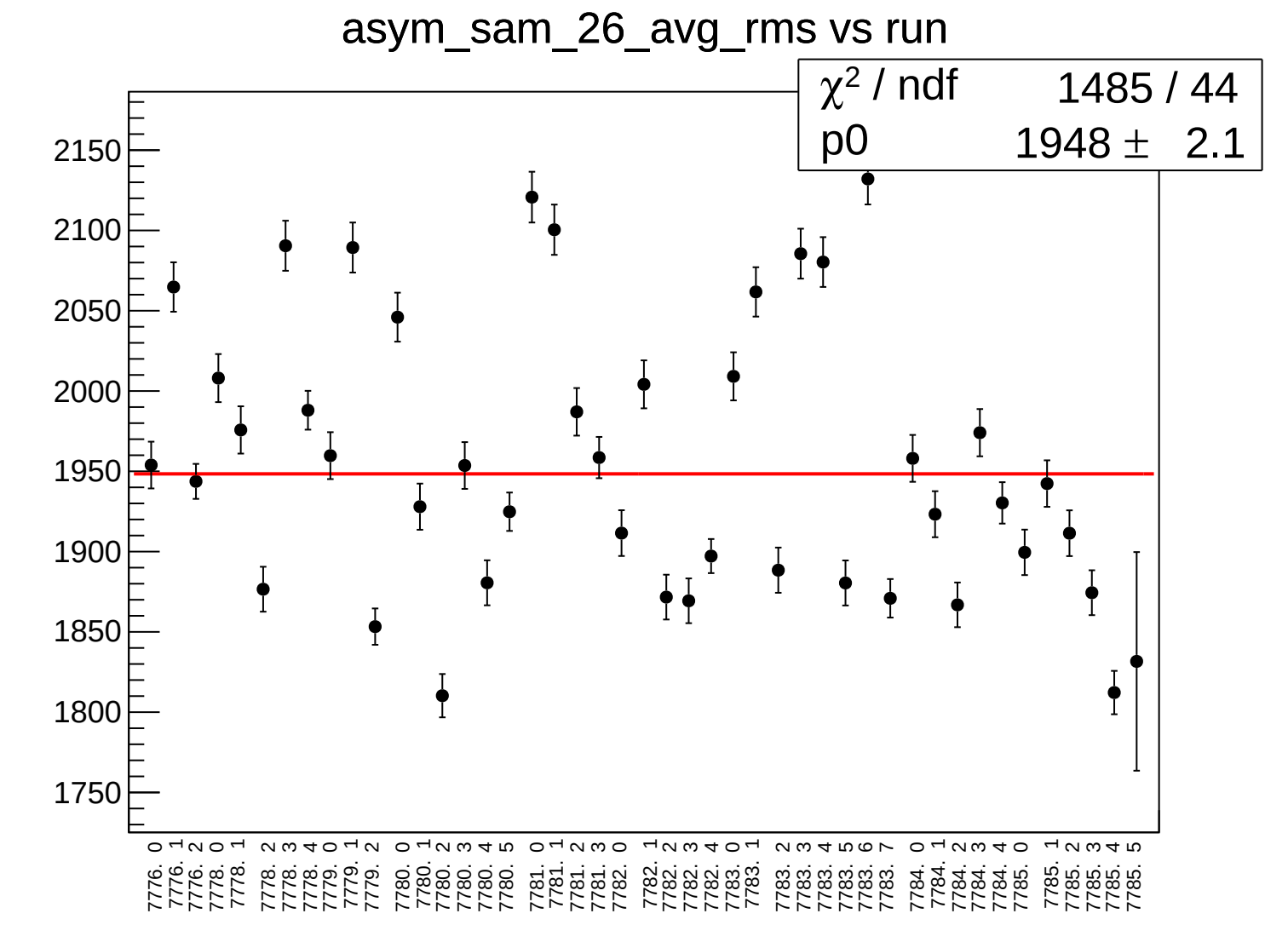

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3189 / 44
p0 212.7 ± 0.2295
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

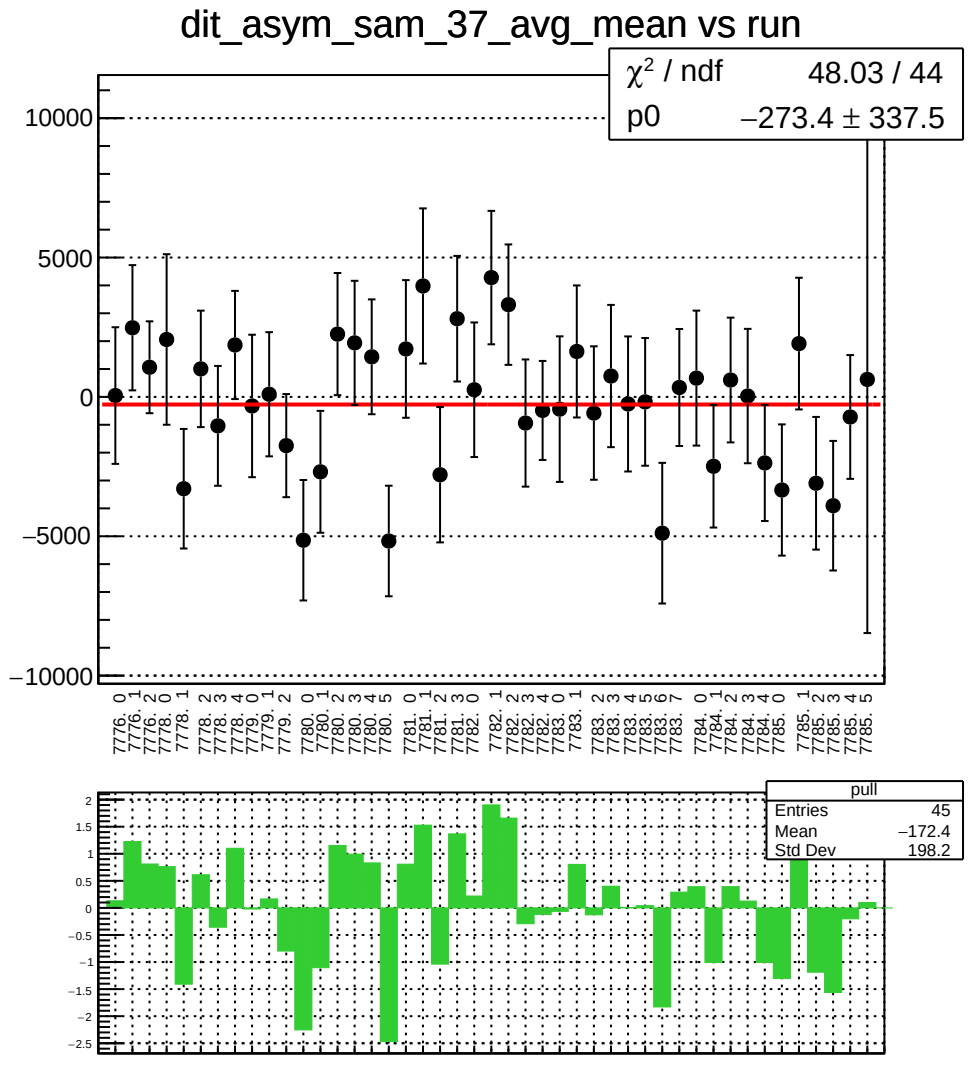

asym_sam_26_avg_correction_mean vs run
×10^3
χ² / ndf 40.72 / 44
p0 1622 ± 2956
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −12.66
Std Dev 25.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.01315
Std Dev 0.9512
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

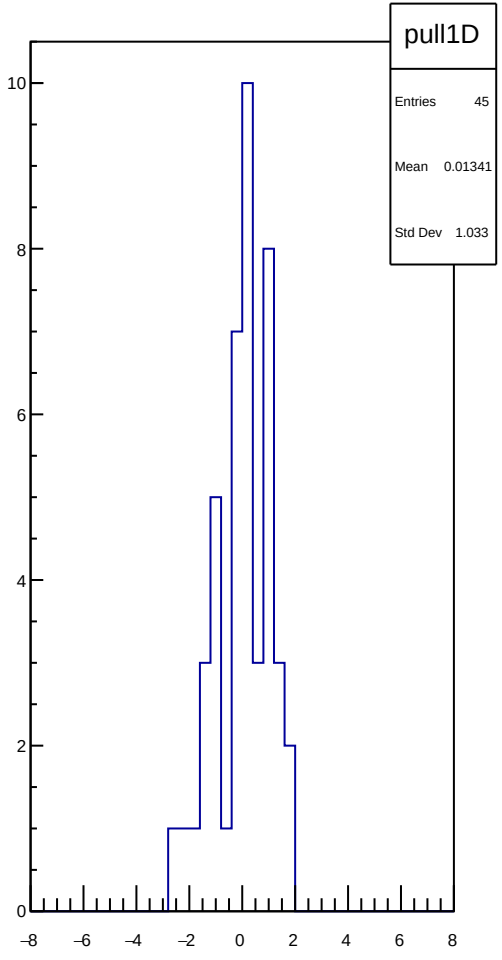

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1374 / 44
p0 1940 ± 2.09
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

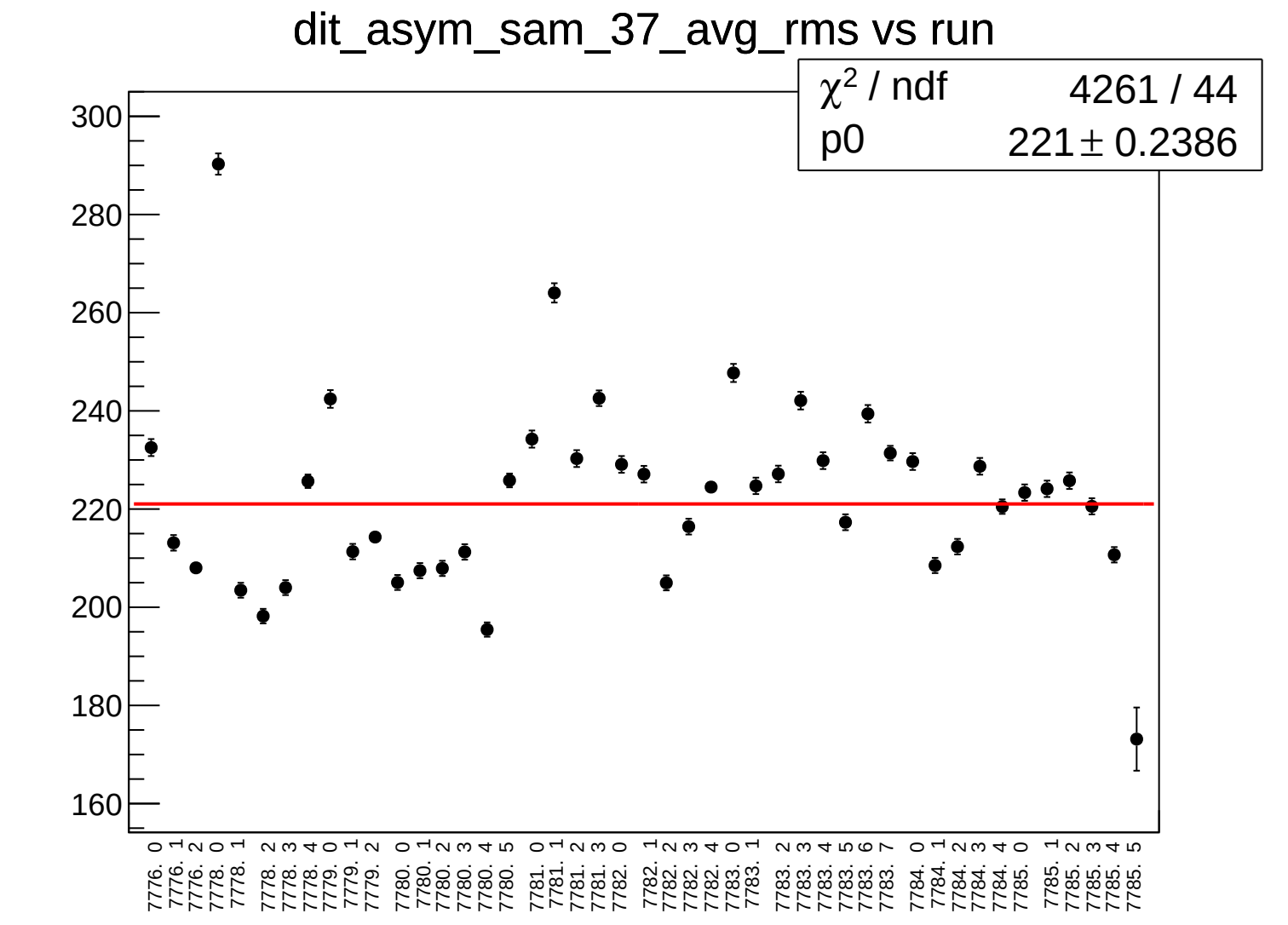

asym_sam_26_avg_mean vs run
×10^3
χ² / ndf 39 / 44
p0 −1655 ± 2970
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −30.01
Std Dev 35.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

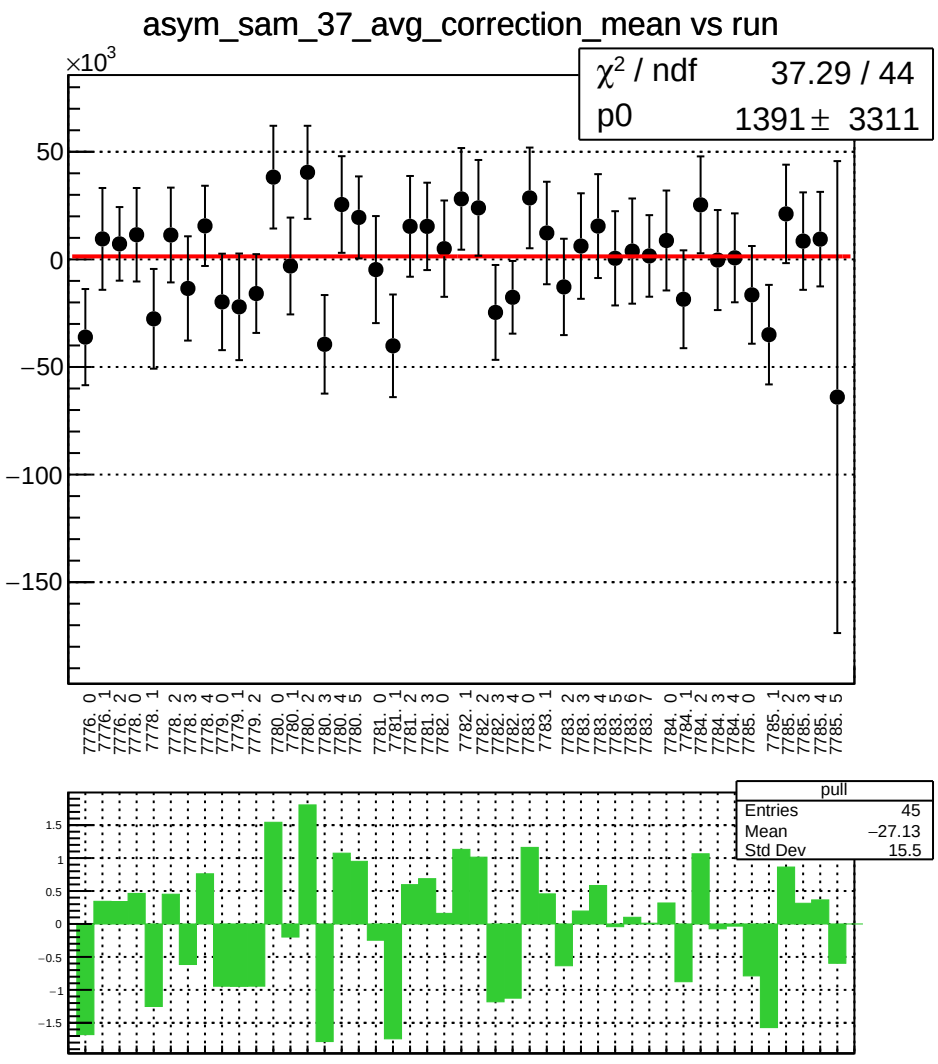

pull1D
Entries 45
Mean 0.01543
Std Dev 0.9308
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

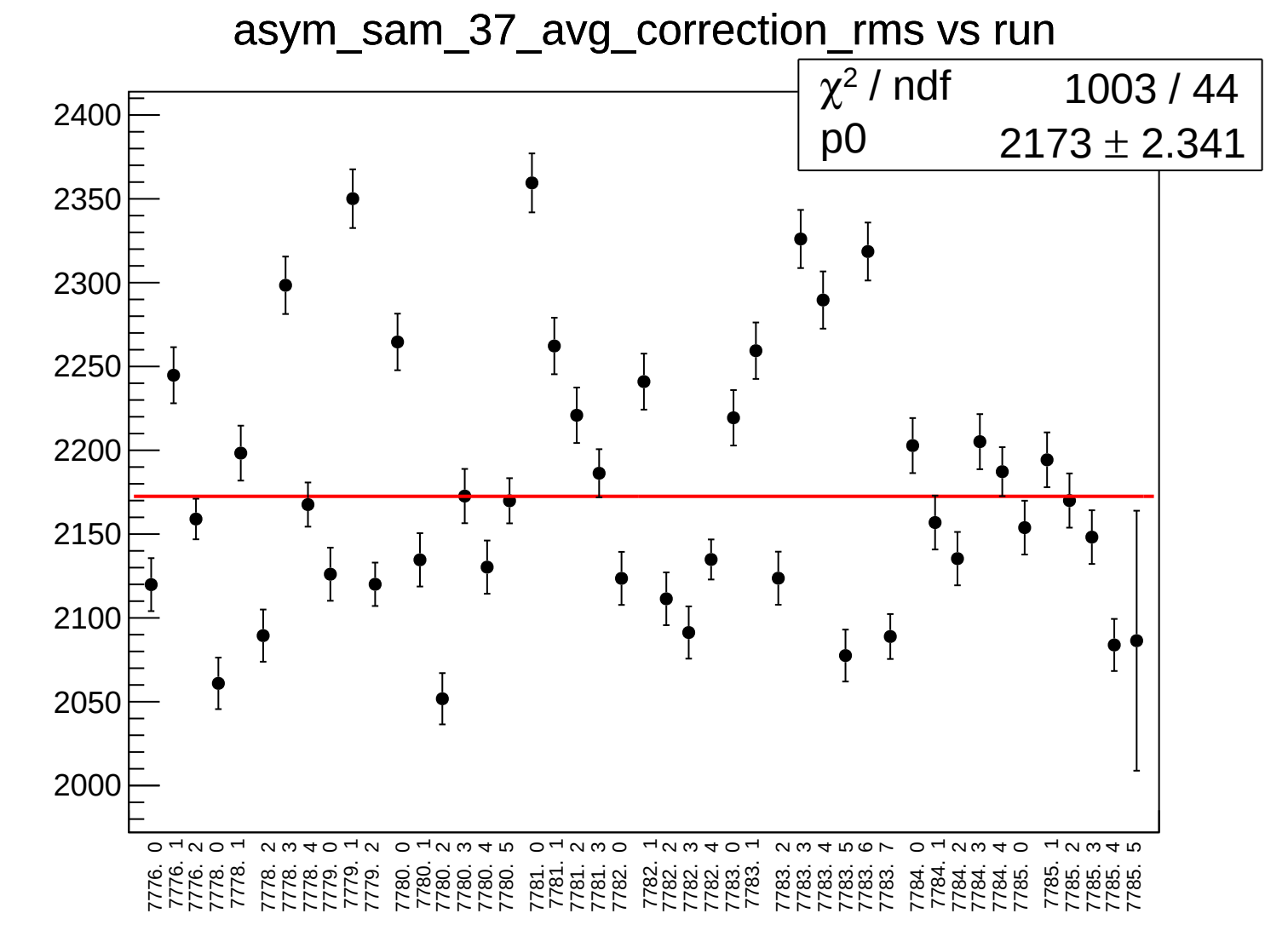

asym_sam_26_avg_rms vs run
χ² / ndf 1485 / 44
p0 1948 ± 2.1
2150
2100
2050
2000
1950
1900
1850
1800
1750
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

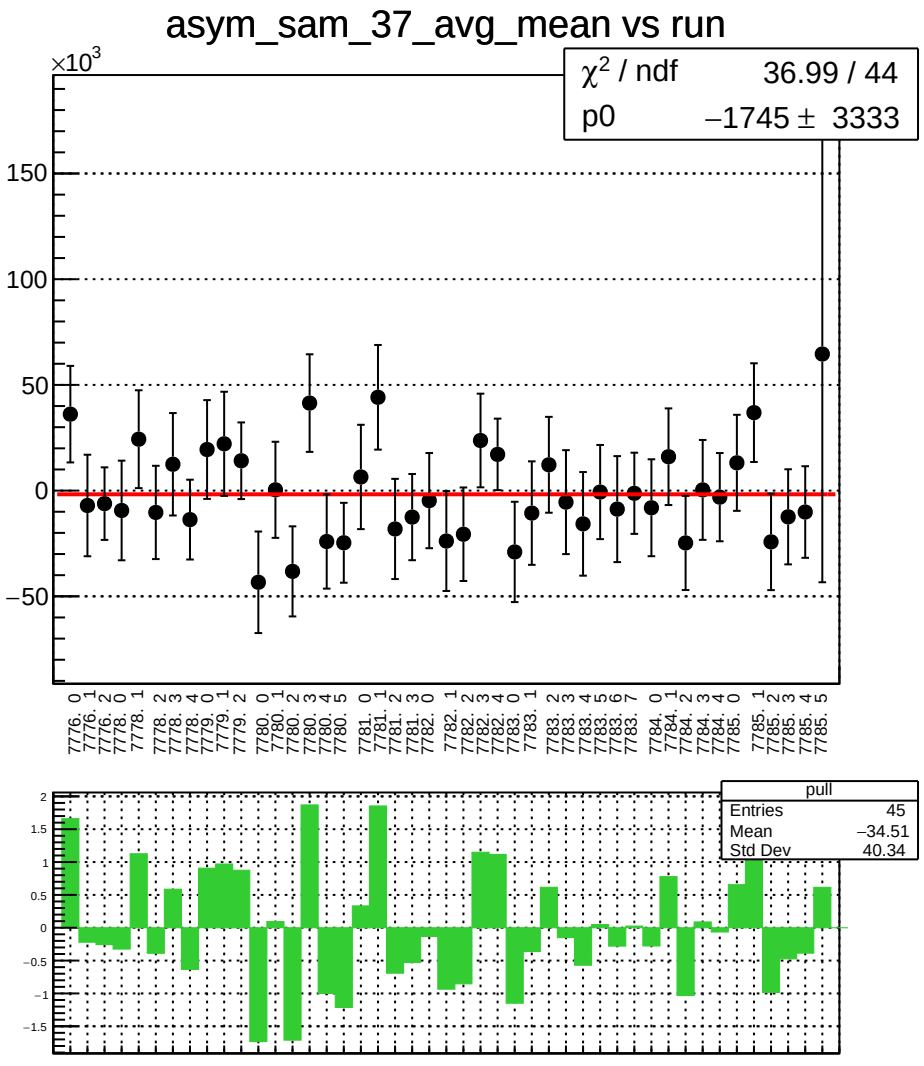

dit_asym_sam_37_avg_mean vs run
χ² / ndf 48.03 / 44
p0 −273.4 ± 337.5
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −172.4
Std Dev 198.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

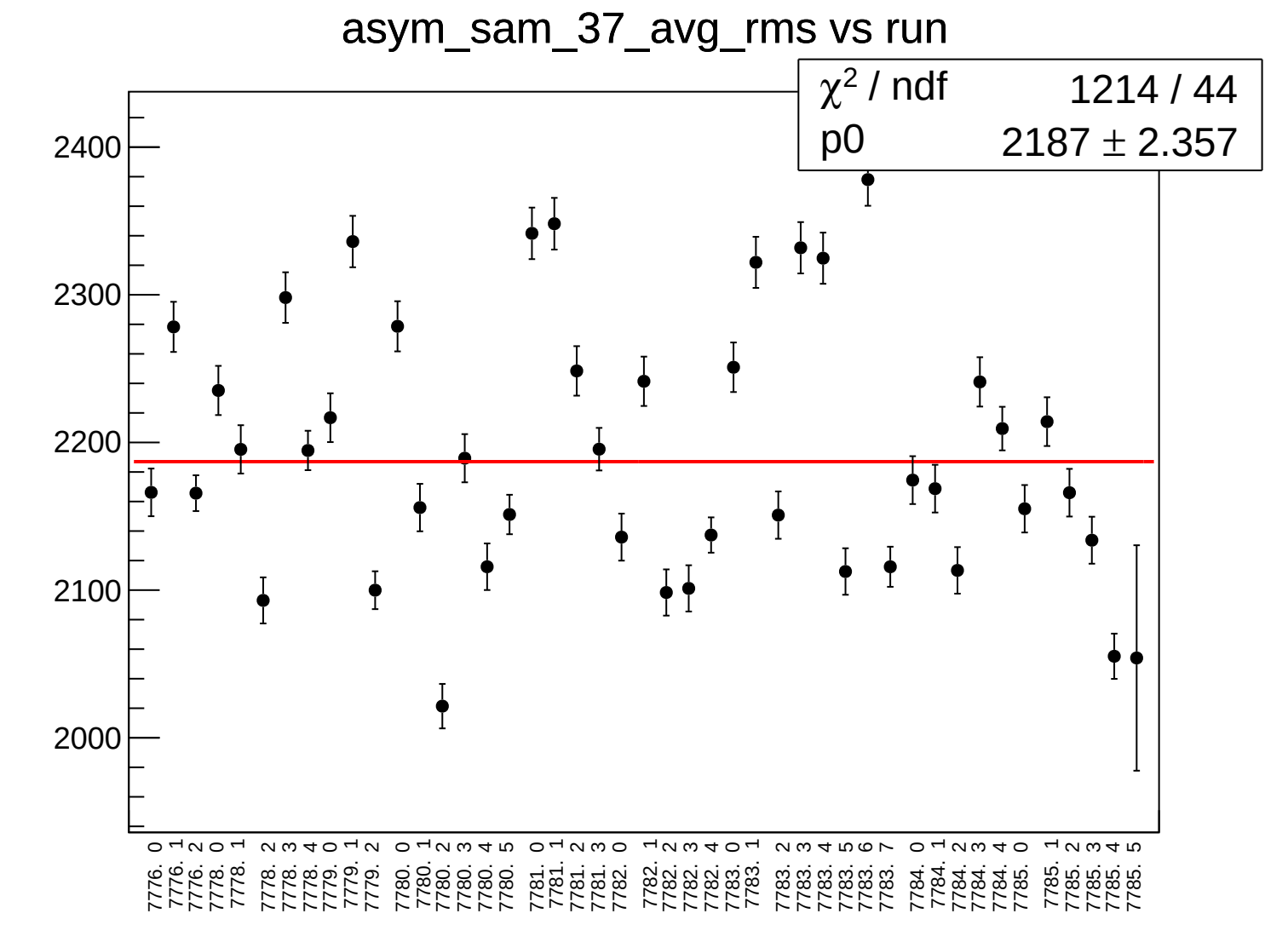

pull1D
Entries 45
Mean 0.01341
Std Dev 1.033
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

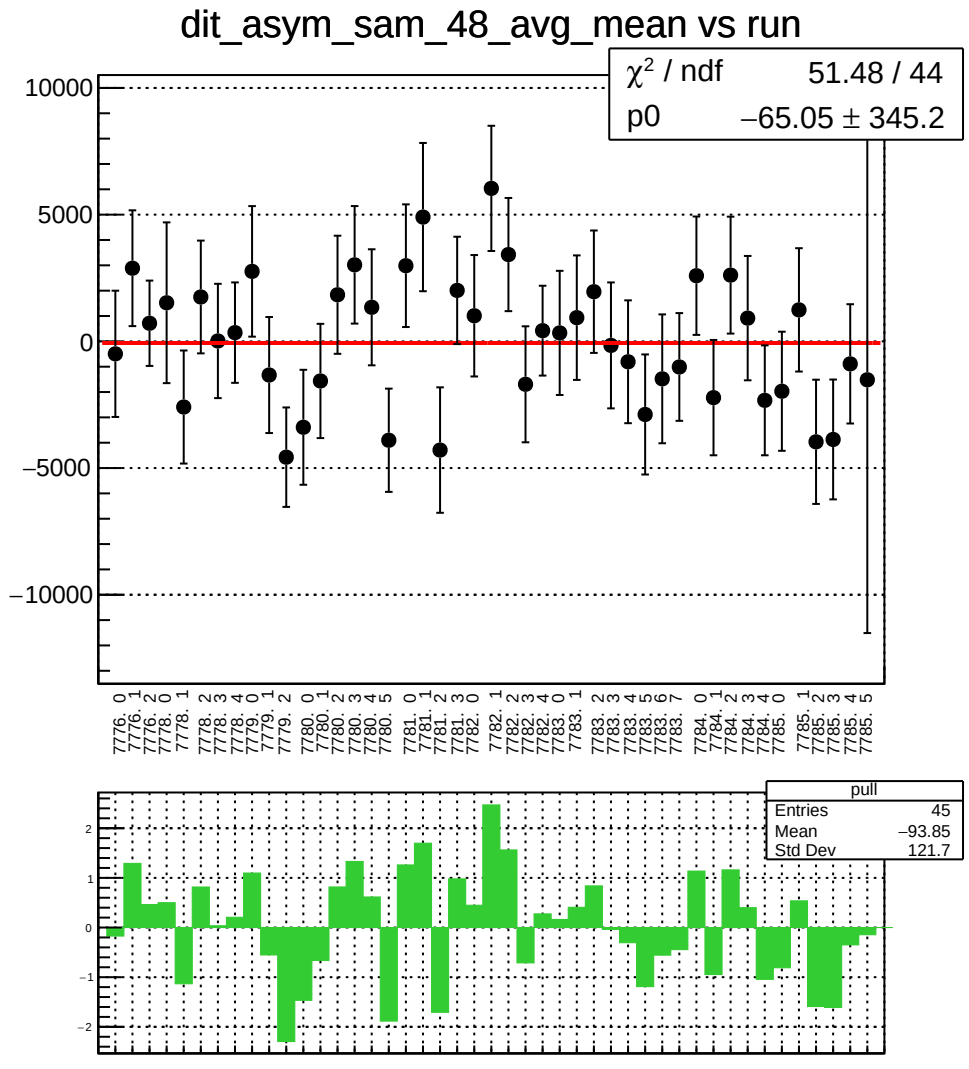

dit_asym_sam_37_avg_rms vs run
χ² / ndf 4261 / 44
p0 221 ± 0.2386
300
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

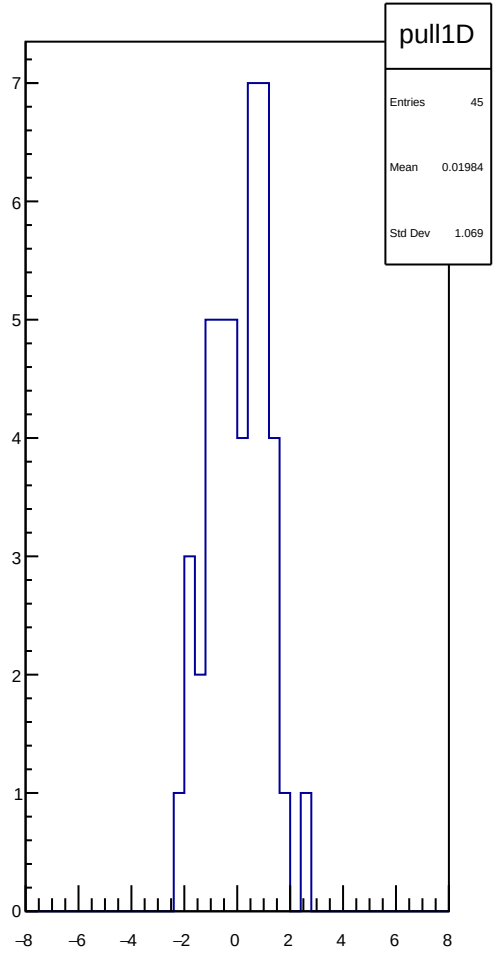

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 37.29 / 44
p0 1391 ± 3311
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −27.13
Std Dev 15.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01137
Std Dev 0.9103
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

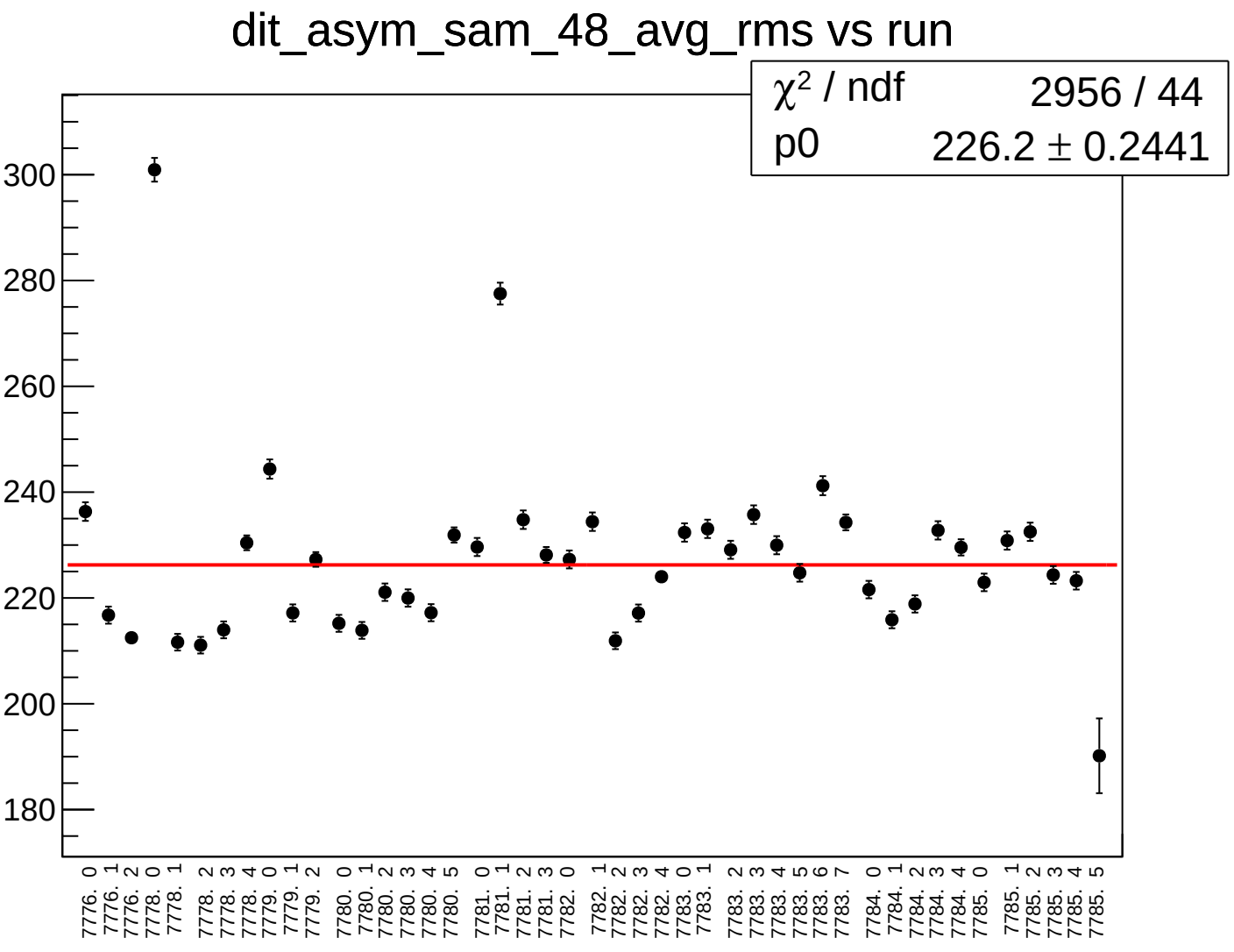

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1003 / 44
p0 2173 ± 2.341
2400
2350
2300
2250
2200
2150
2100
2050
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

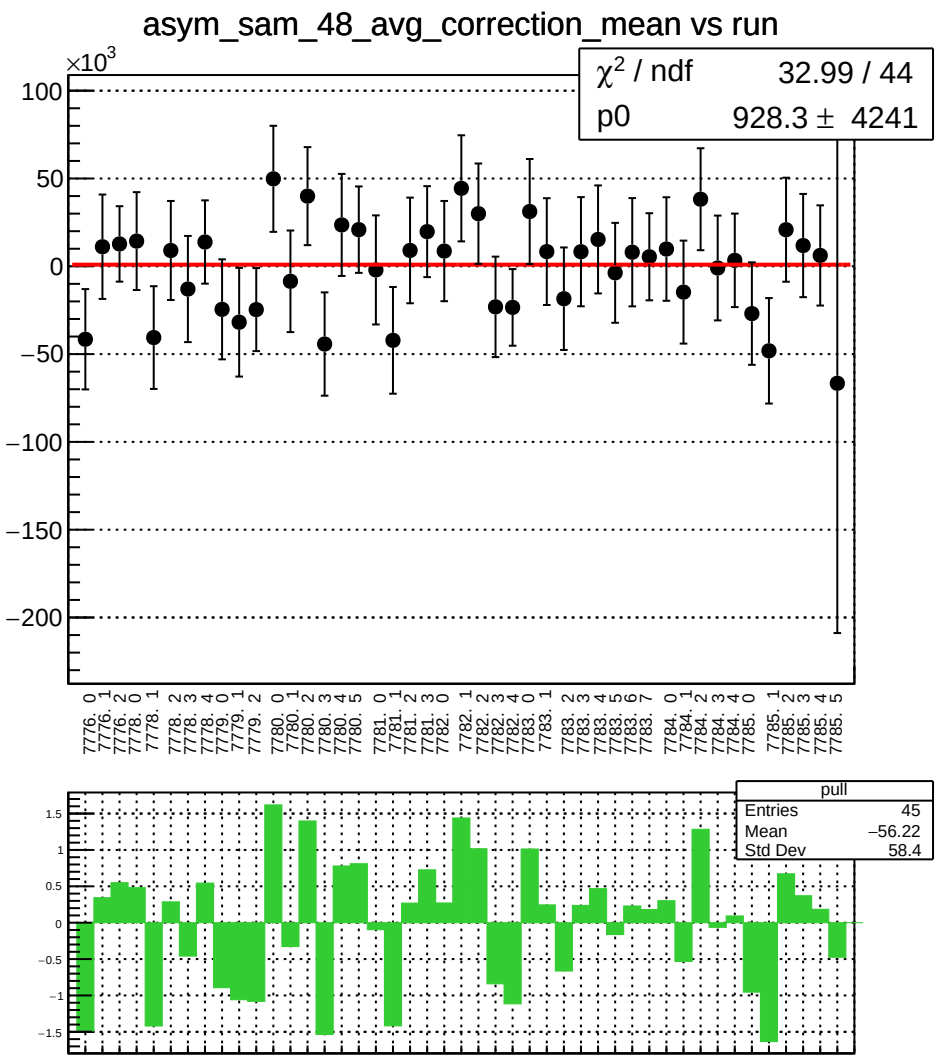

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 36.99 / 44
p0 −1745 ± 3333
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −34.51
Std Dev 40.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01472
Std Dev 0.9065
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

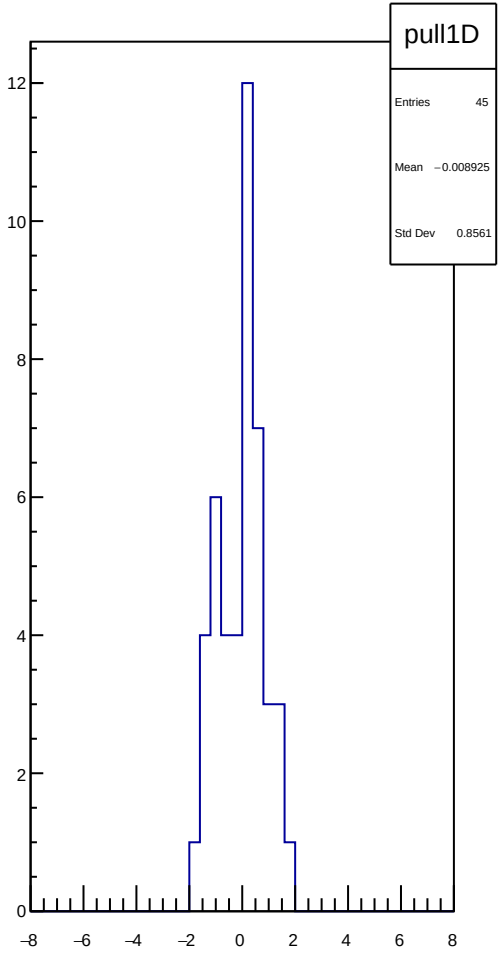

asym_sam_37_avg_rms vs run
χ² / ndf 1214 / 44
p0 2187 ± 2.357
2400
2300
2200
2100
2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

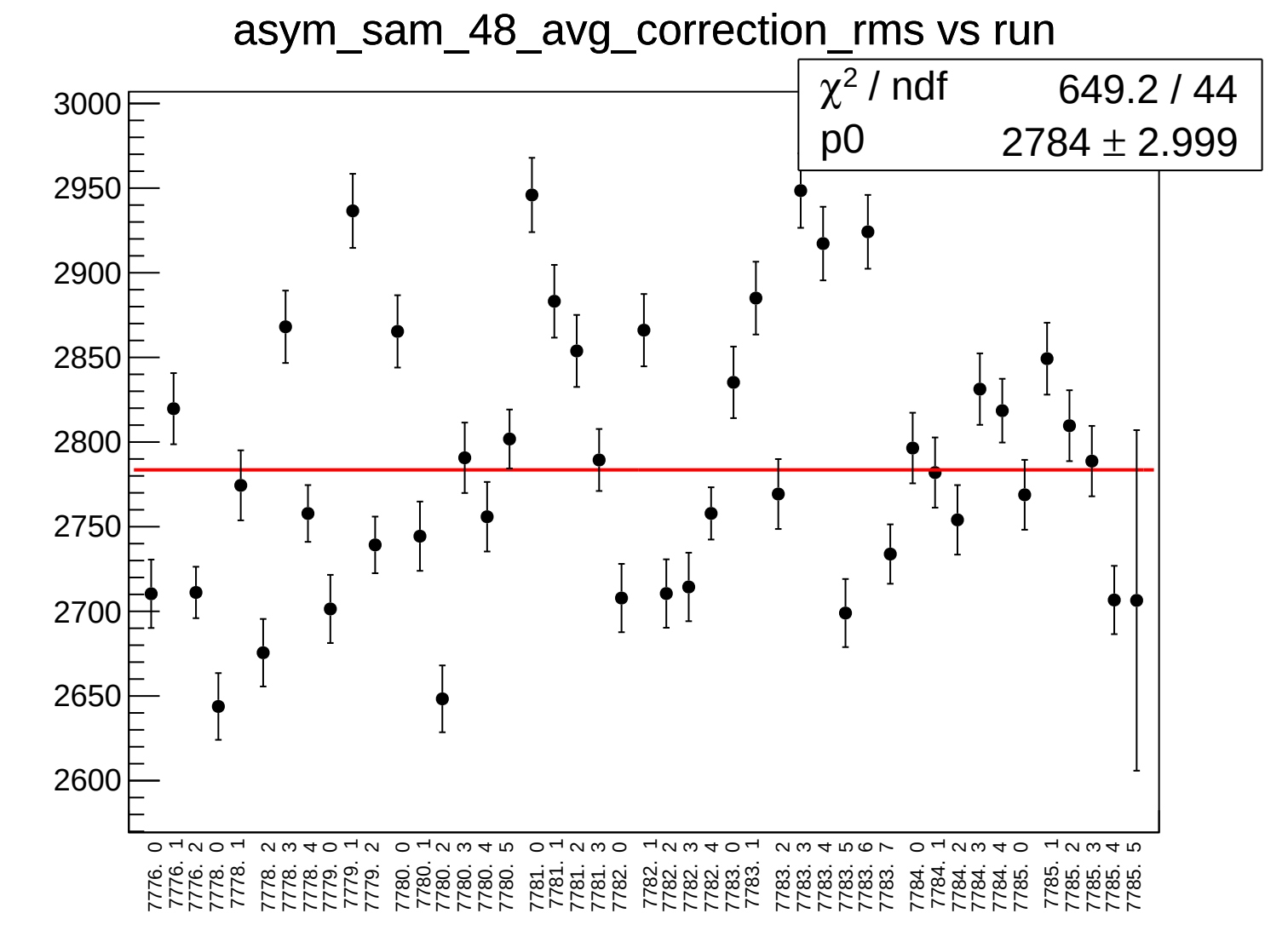

dit_asym_sam_48_avg_mean vs run
χ² / ndf 51.48 / 44
p0 −65.05 ± 345.2
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −93.85
Std Dev 121.7
2
1
0
−1
−2

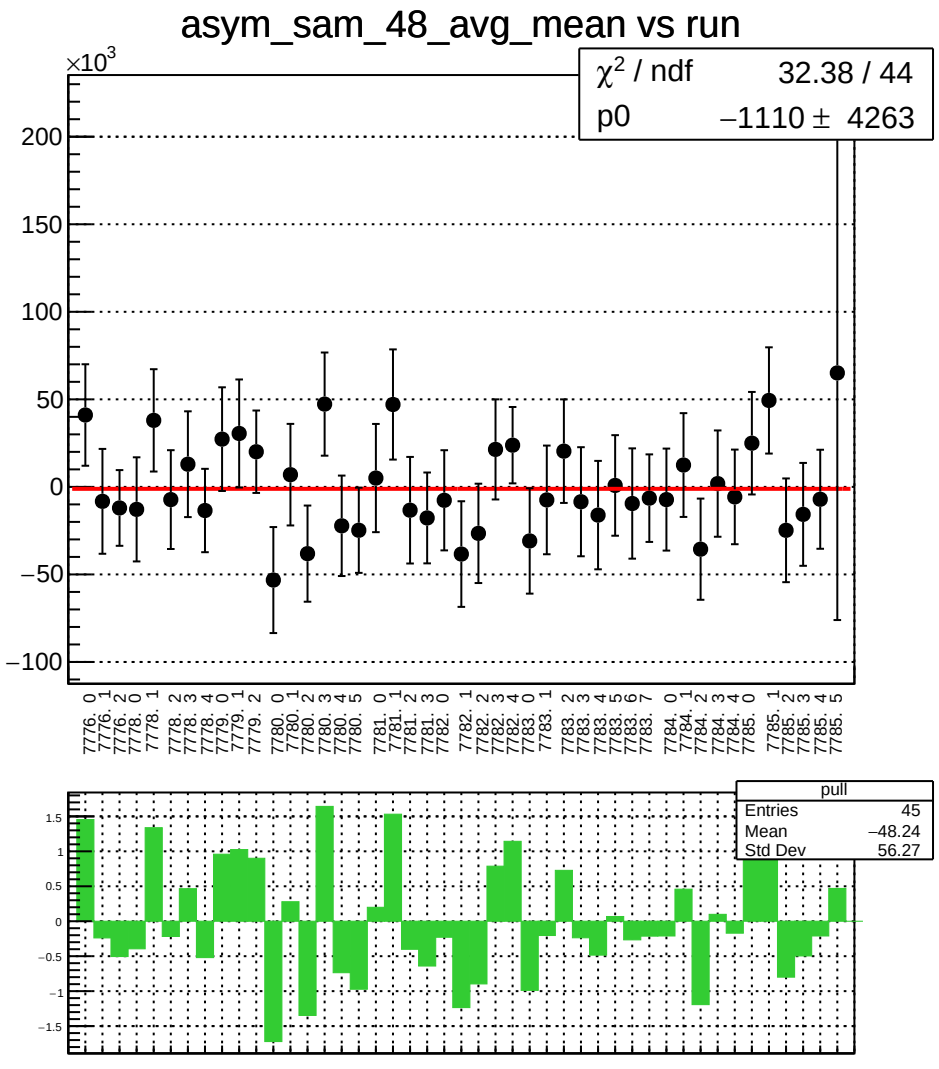

pull1D
Entries 45
Mean 0.01984
Std Dev 1.069
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

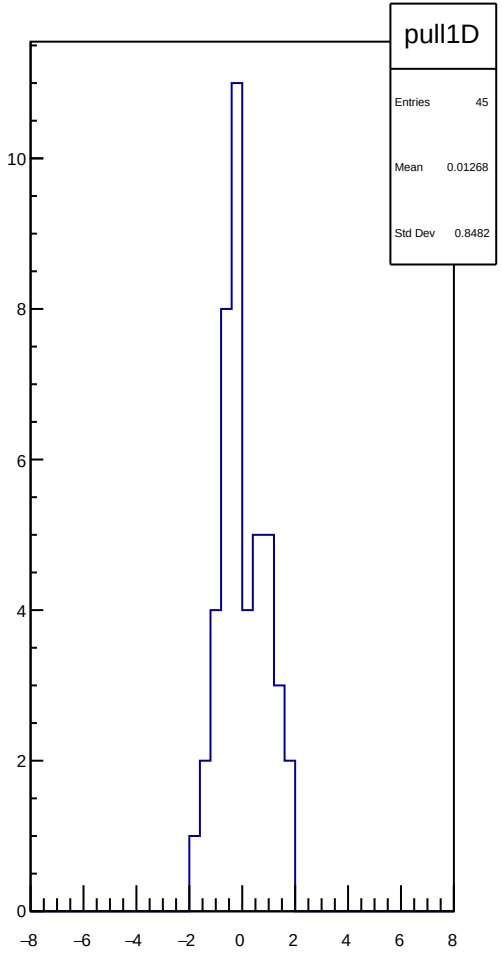

dit_asym_sam_48_avg_rms vs run
χ² / ndf 2956 / 44
p0 226.2 ± 0.2441
300
280
260
240
220
200
180
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

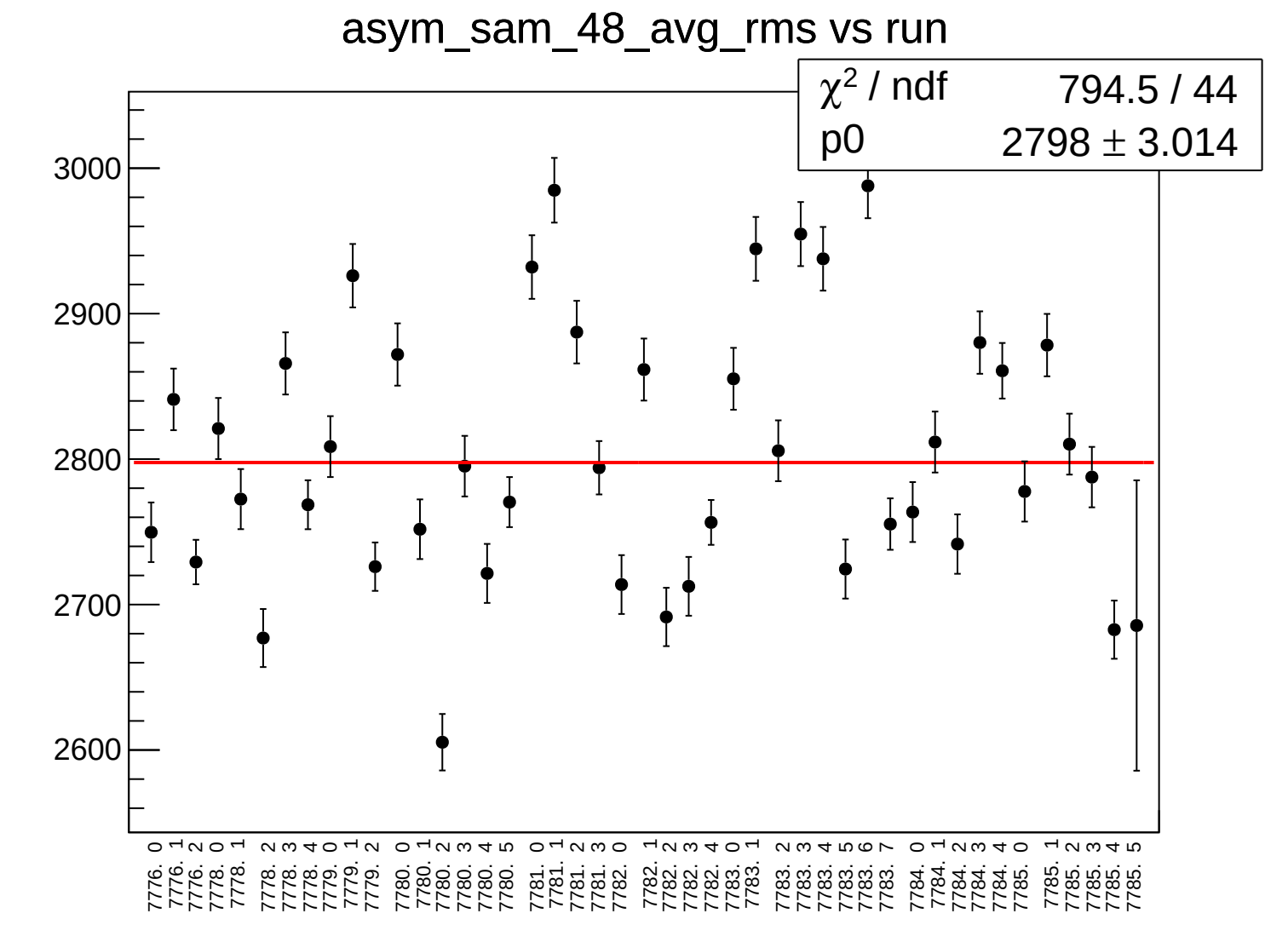

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 32.99 / 44
p0 928.3 ± 4241
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −56.22
Std Dev 58.4
1.5
1
0.5
0
−0.5
−1
−1.5

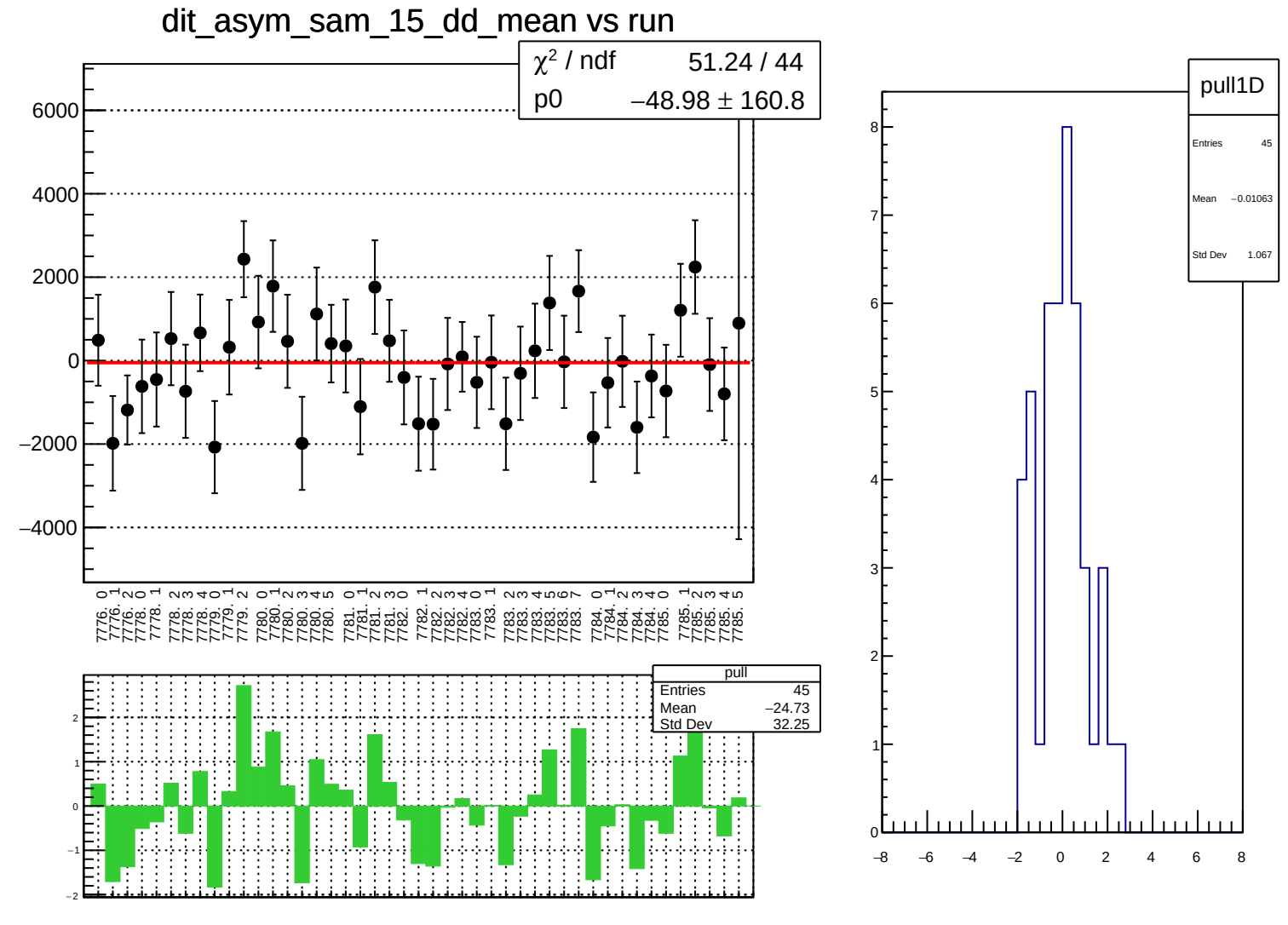

pull1D
Entries 45
Mean −0.008925
Std Dev 0.8561
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

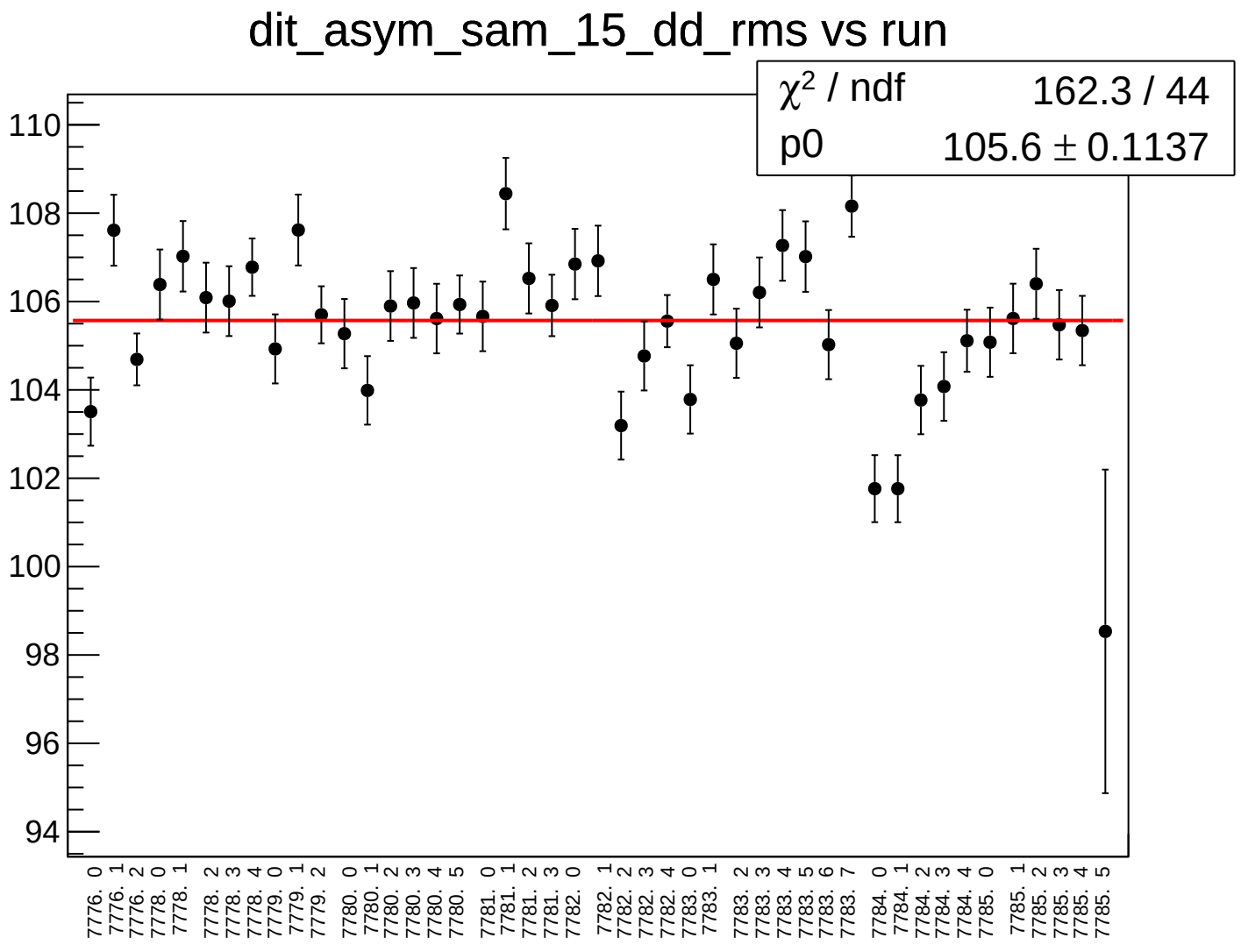

asym_sam_48_avg_correction_rms vs run
χ² / ndf 649.2 / 44
p0 2784 ± 2.999
3000
2950
2900
2850
2800
2750
2700
2650
2600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

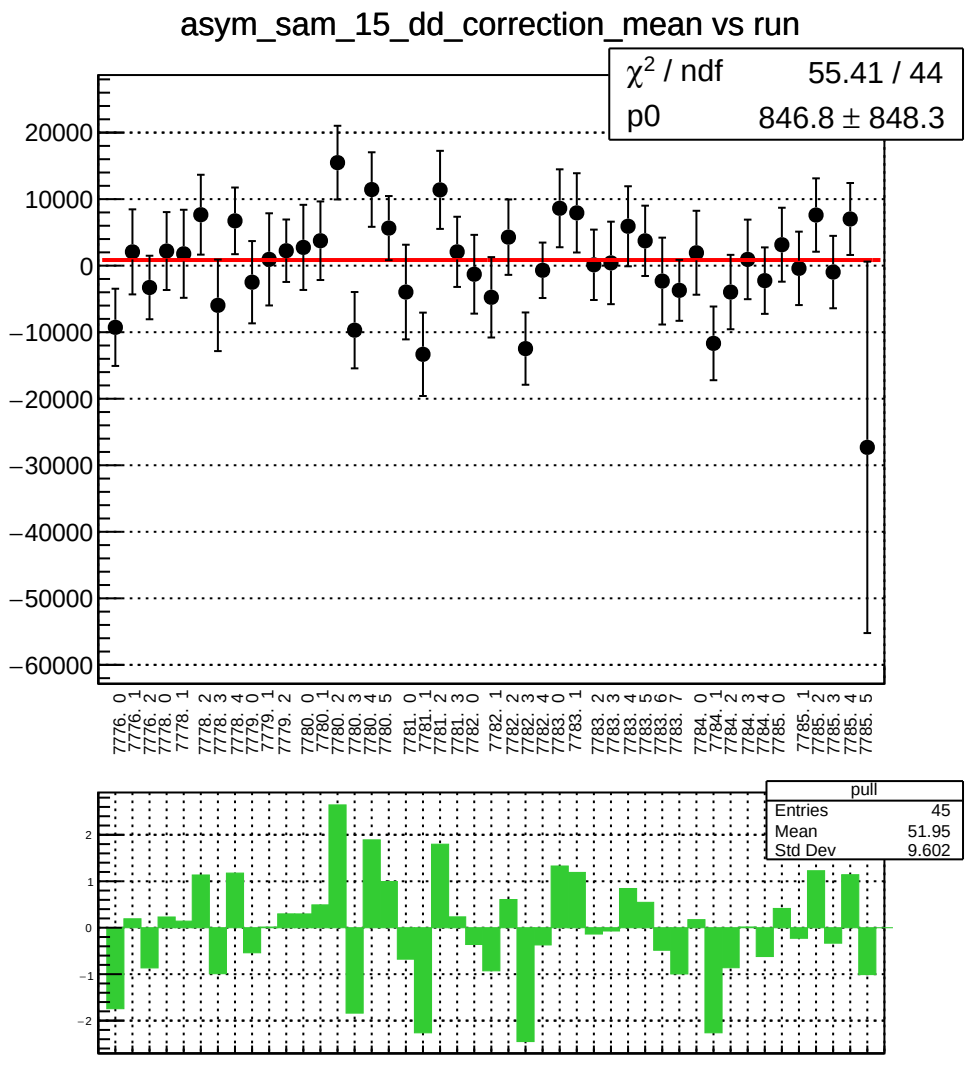

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 32.38 / 44
p0 −1110 ± 4263
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −48.24
Std Dev 56.27
1.5
1
0.5
0
−0.5
−1
−1.5

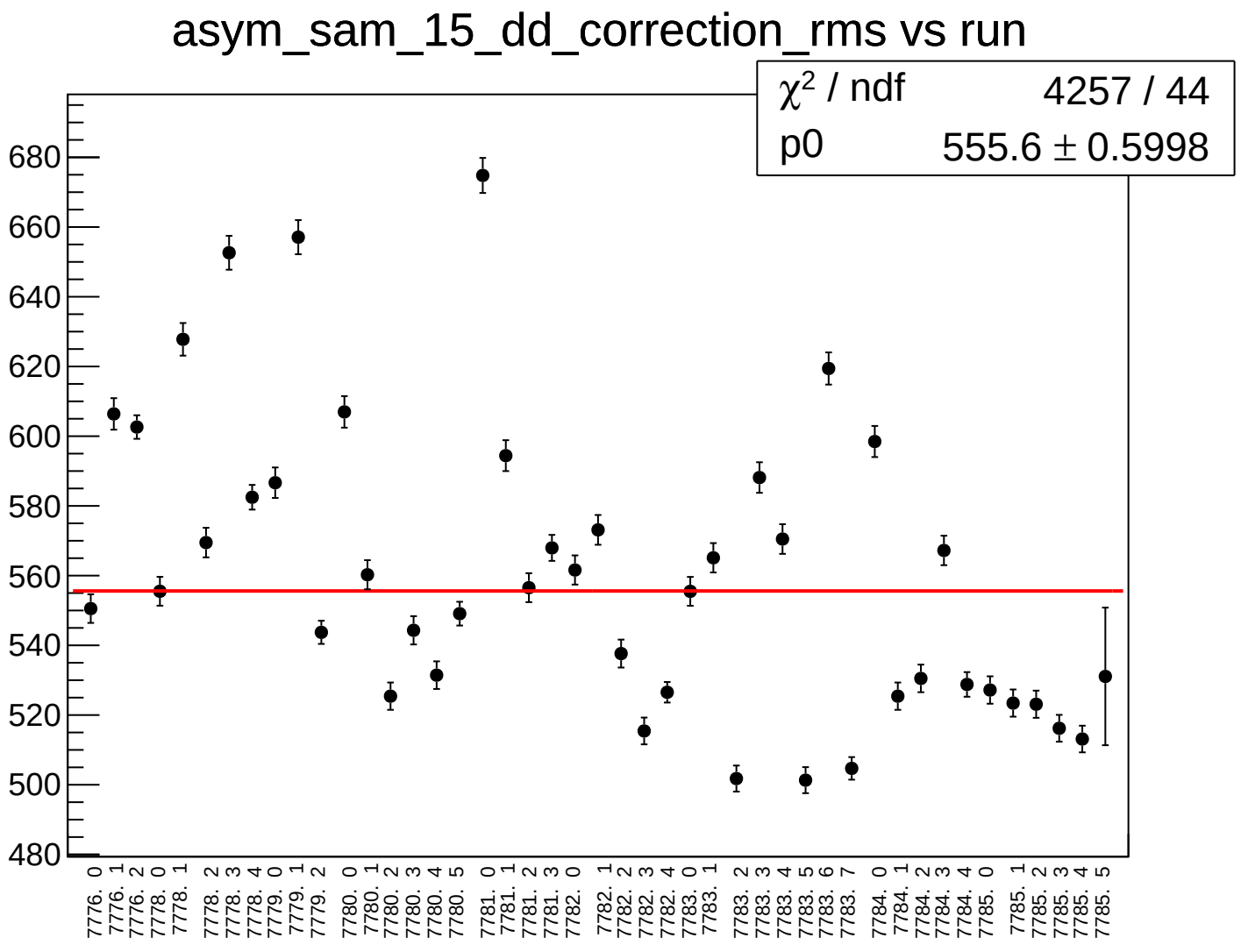

pull1D
Entries 45
Mean 0.01268
Std Dev 0.8482
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

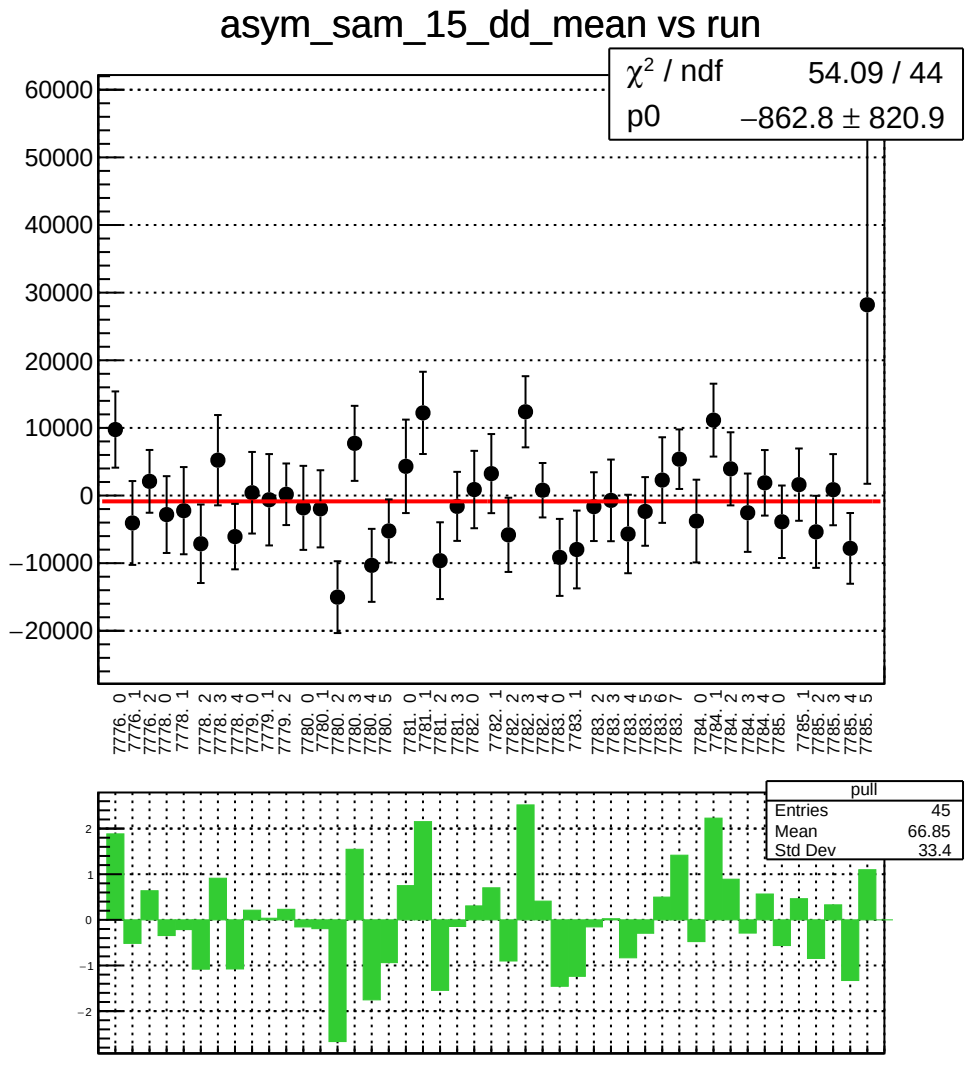

asym_sam_48_avg_rms vs run
χ² / ndf 794.5 / 44
p0 2798 ± 3.014
3000
2900
2800
2700
2600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

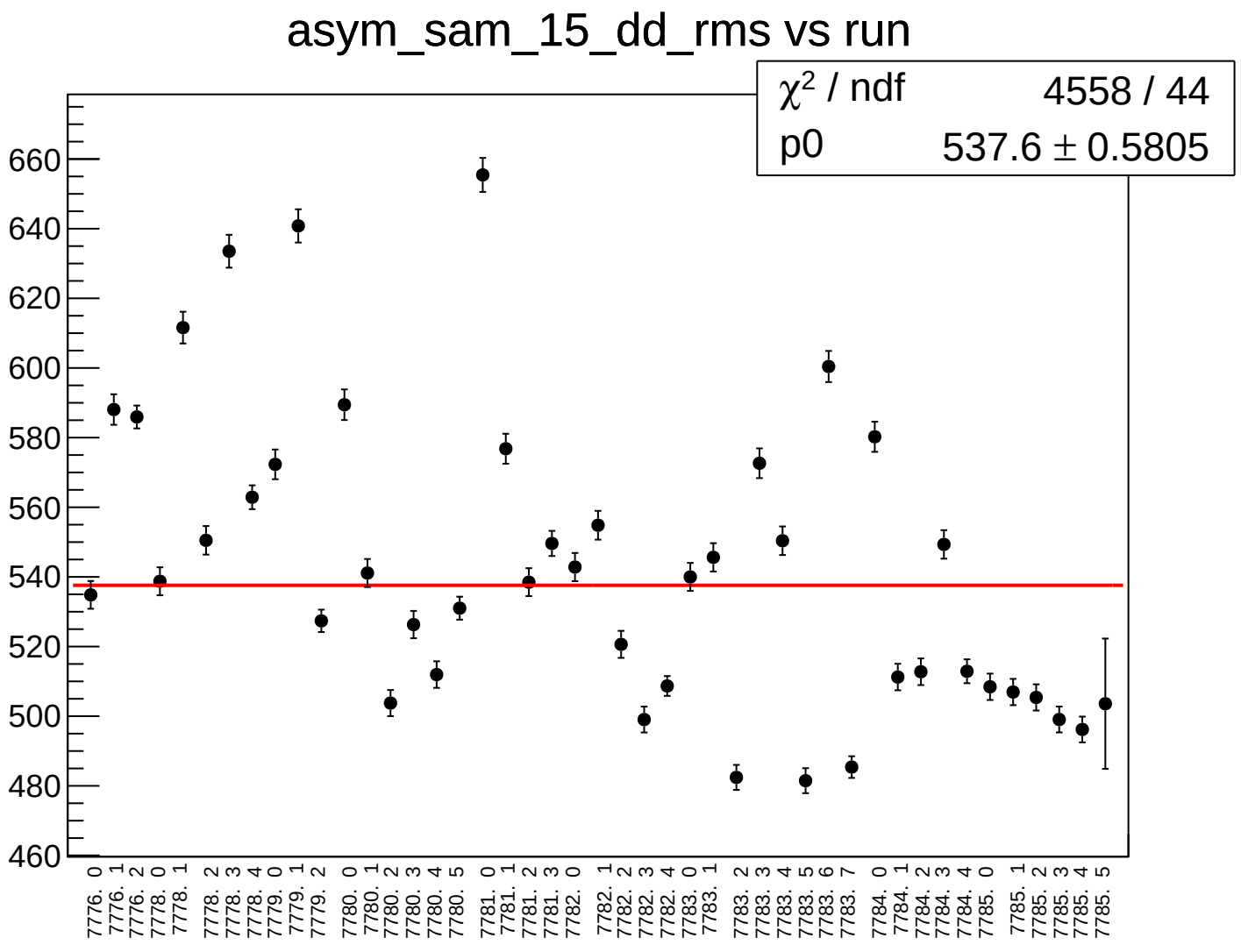

dit_asym_sam_15_dd_mean vs run
χ² / ndf 51.24 / 44
p0 −48.98 ± 160.8
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −24.73
Std Dev 32.25
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.01063
Std Dev 1.067
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

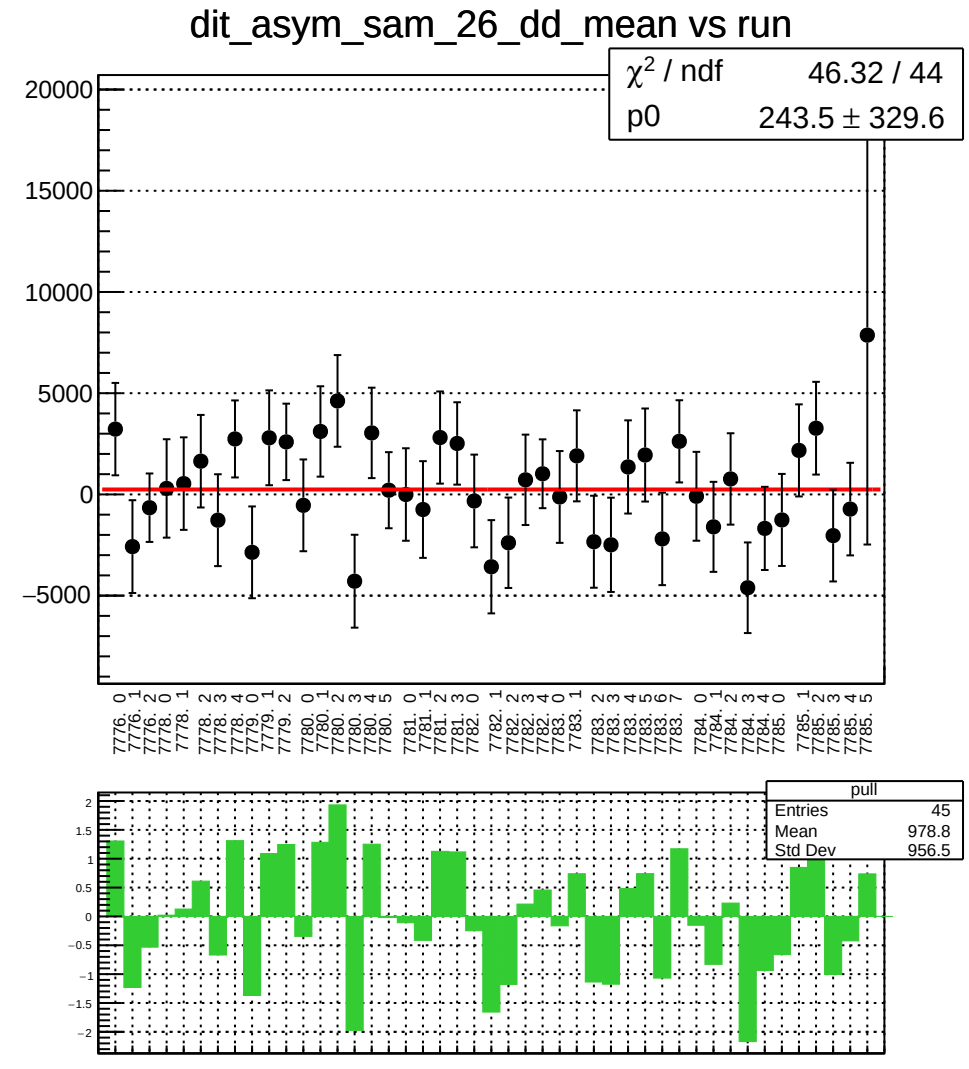

dit_asym_sam_15_dd_rms vs run
χ² / ndf 162.3 / 44
p0 105.6 ± 0.1137
110
108
106
104
102
100
98
96
94
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

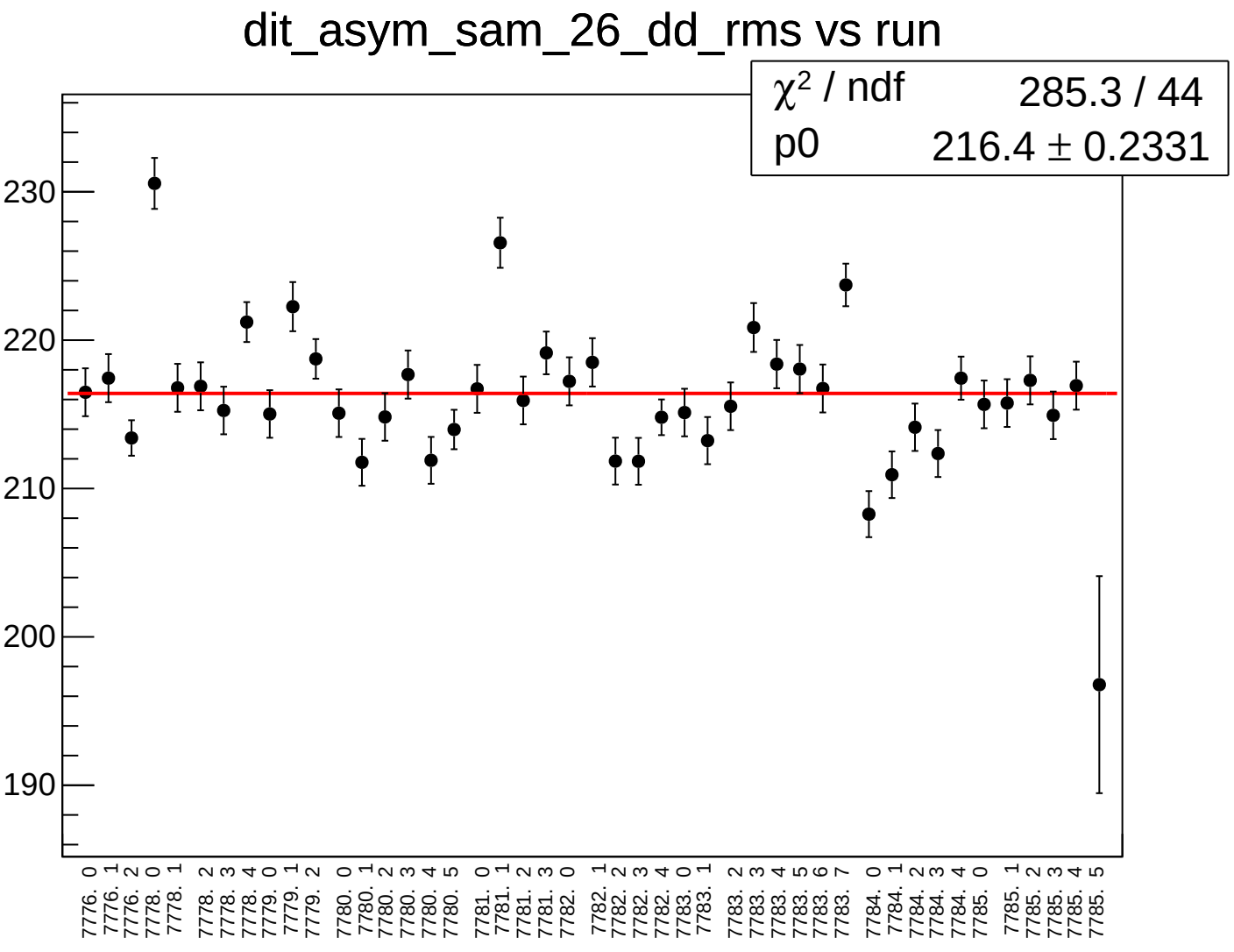

asym_sam_15_dd_correction_mean vs run
χ² / ndf 55.41 / 44
p0 846.8 ± 848.3
20000
10000
0
−10000
−20000
−30000
−40000
−50000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 51.95
Std Dev 9.602
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.02219
Std Dev 1.109
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

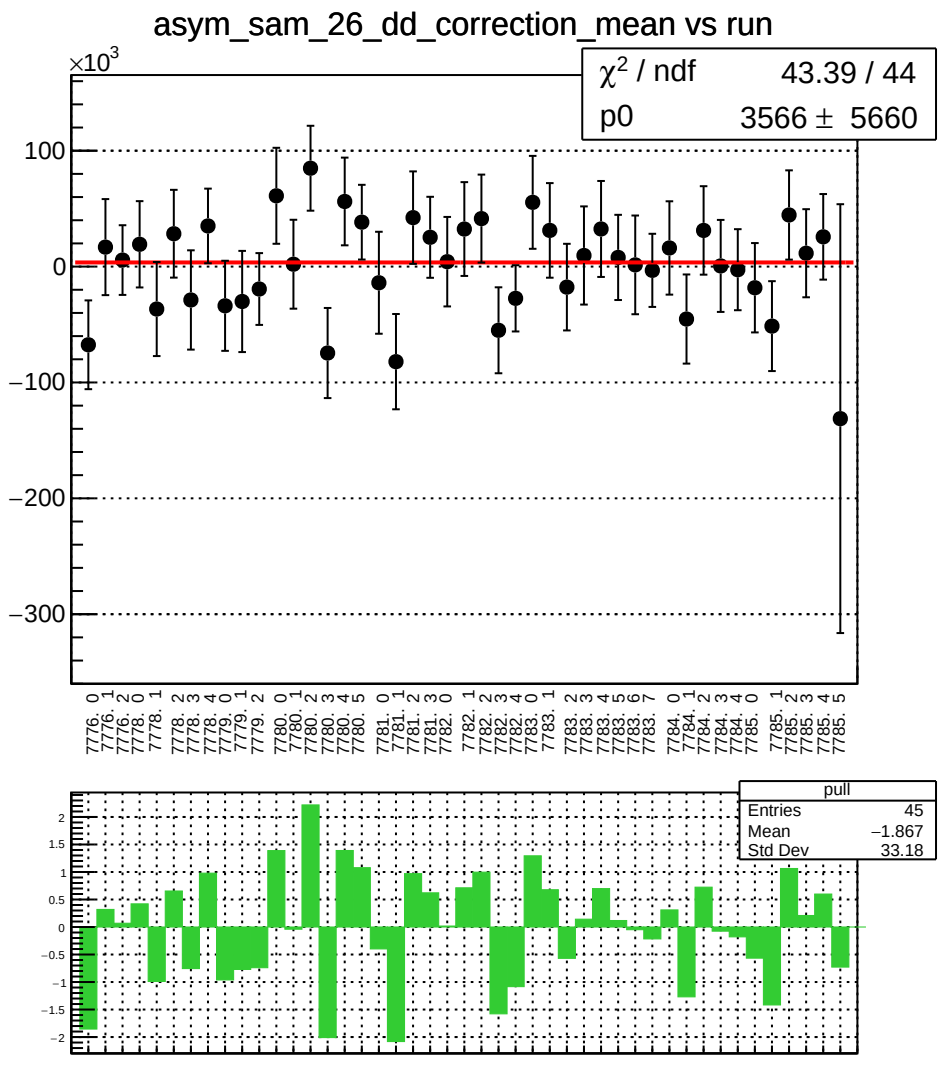

asym_sam_15_dd_correction_rms vs run
χ² / ndf 4257 / 44
p0 555.6 ± 0.5998
680
660
640
620
600
580
560
540
520
500
480
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

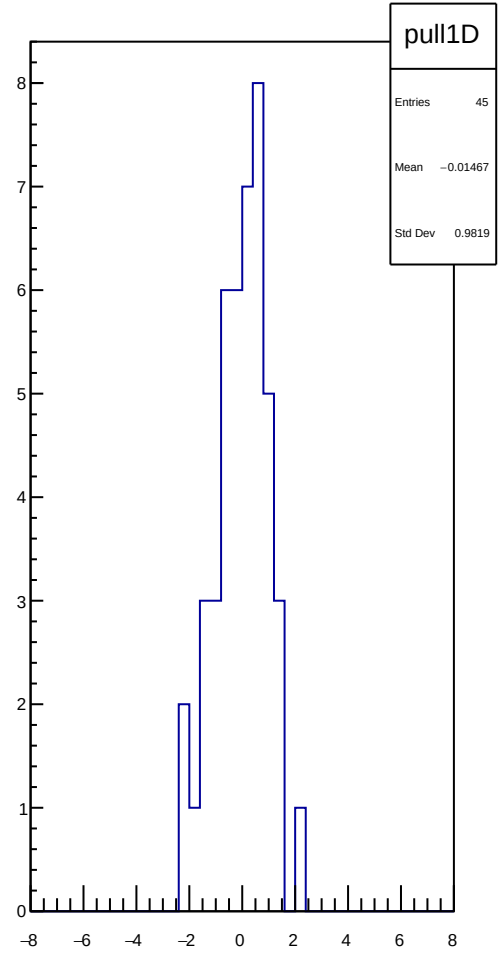

asym_sam_15_dd_mean vs run
χ² / ndf 54.09 / 44
p0 −862.8 ± 820.9
60000
50000
40000
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 66.85
Std Dev 33.4
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.01803
Std Dev 1.096
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

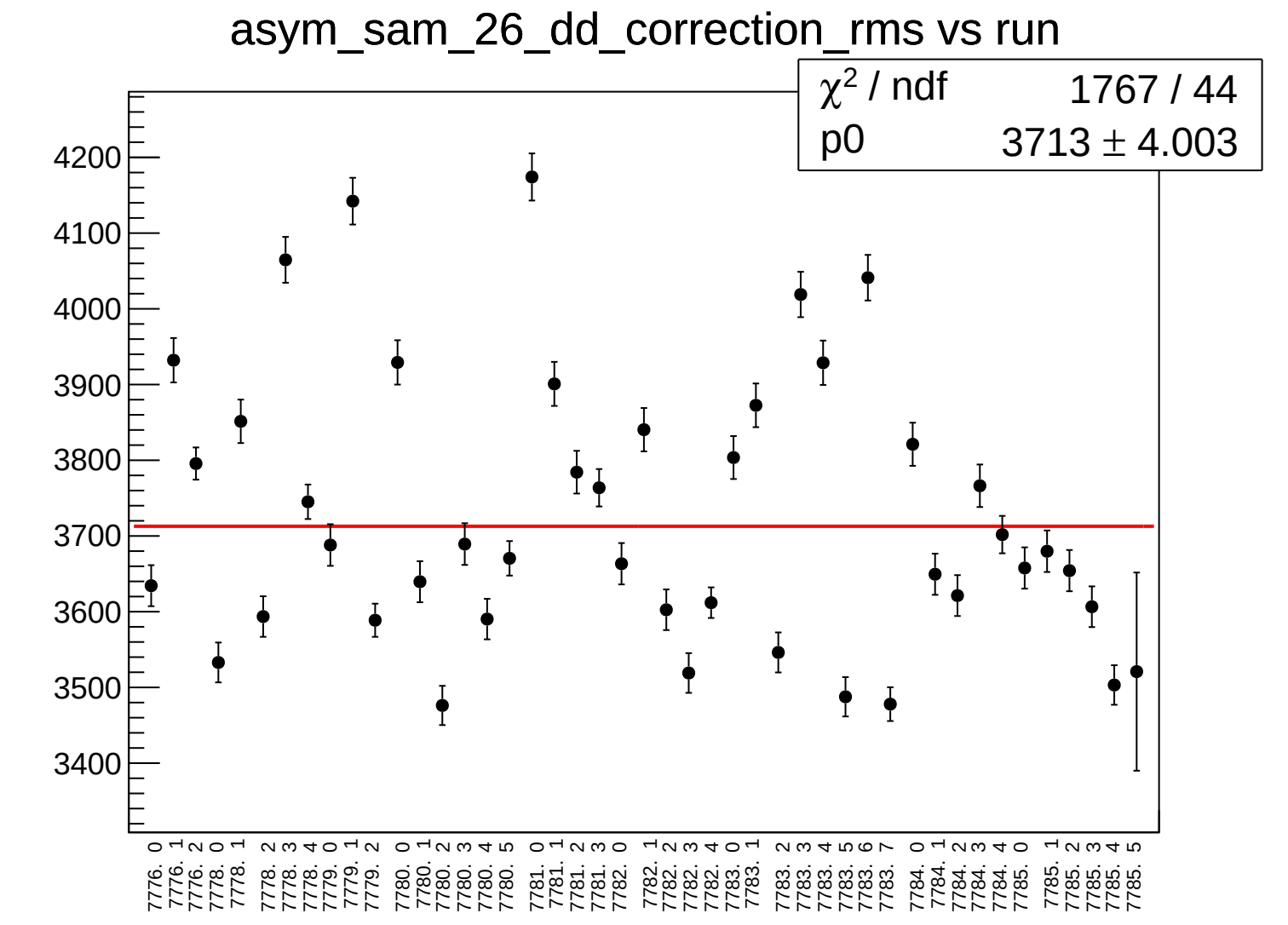

asym_sam_15_dd_rms vs run
χ² / ndf 4558 / 44
p0 537.6 ± 0.5805
660
640
620
600
580
560
540
520
500
480
460
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

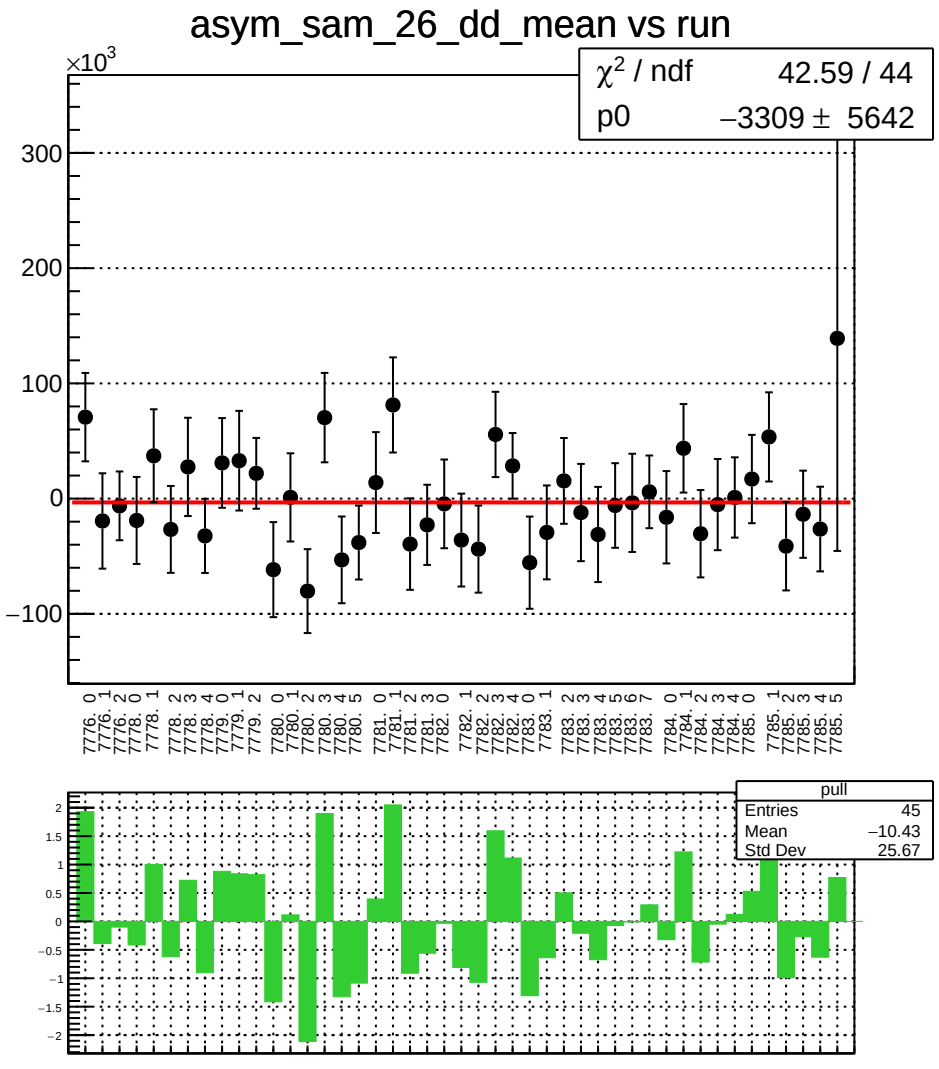

dit_asym_sam_26_dd_mean vs run
χ² / ndf 46.32 / 44
p0 243.5 ± 329.6
20000
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 978.8
Std Dev 956.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.001996
Std Dev 1.015
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

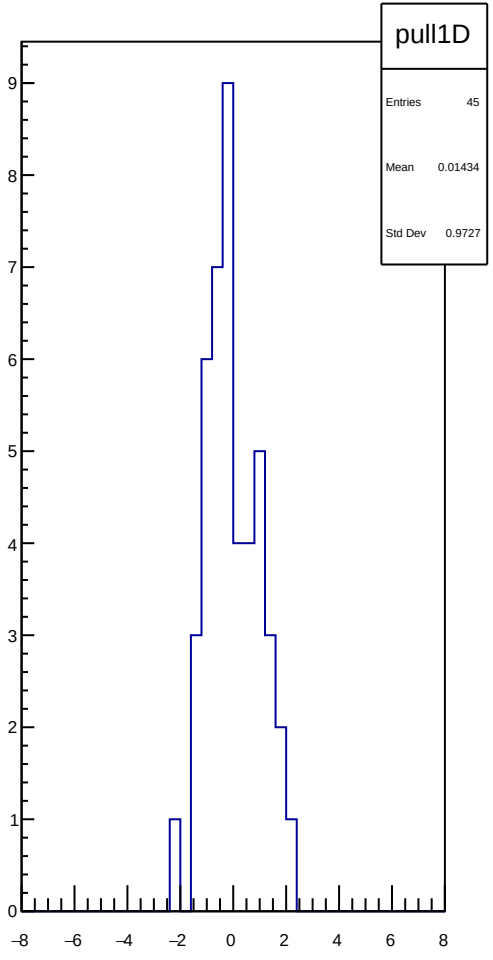

dit_asym_sam_26_dd_rms vs run
χ² / ndf 285.3 / 44
p0 216.4 ± 0.2331
230
220
210
200
190
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

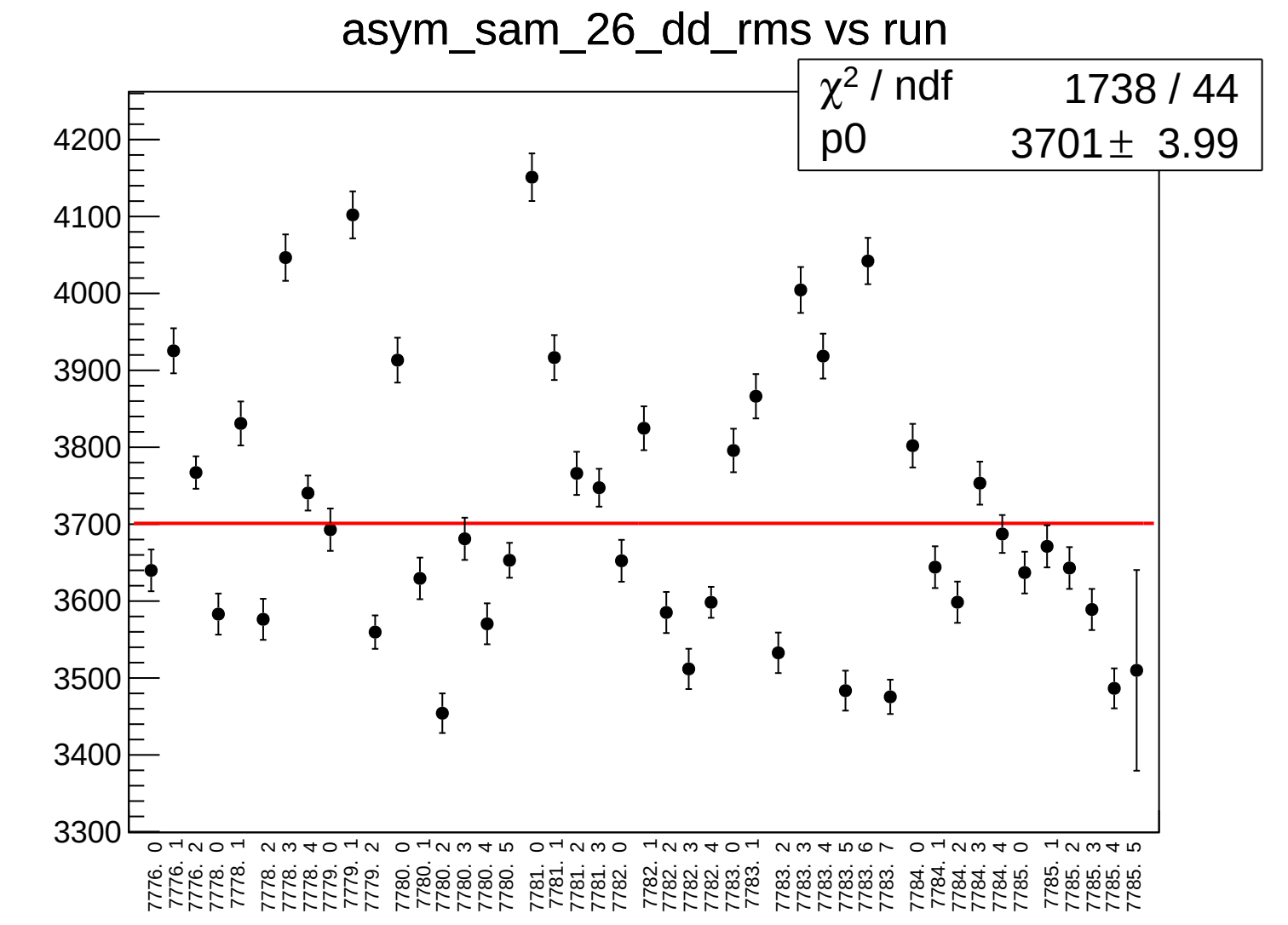

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 43.39 / 44
p0 3566 ± 5660
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −1.867
Std Dev 33.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

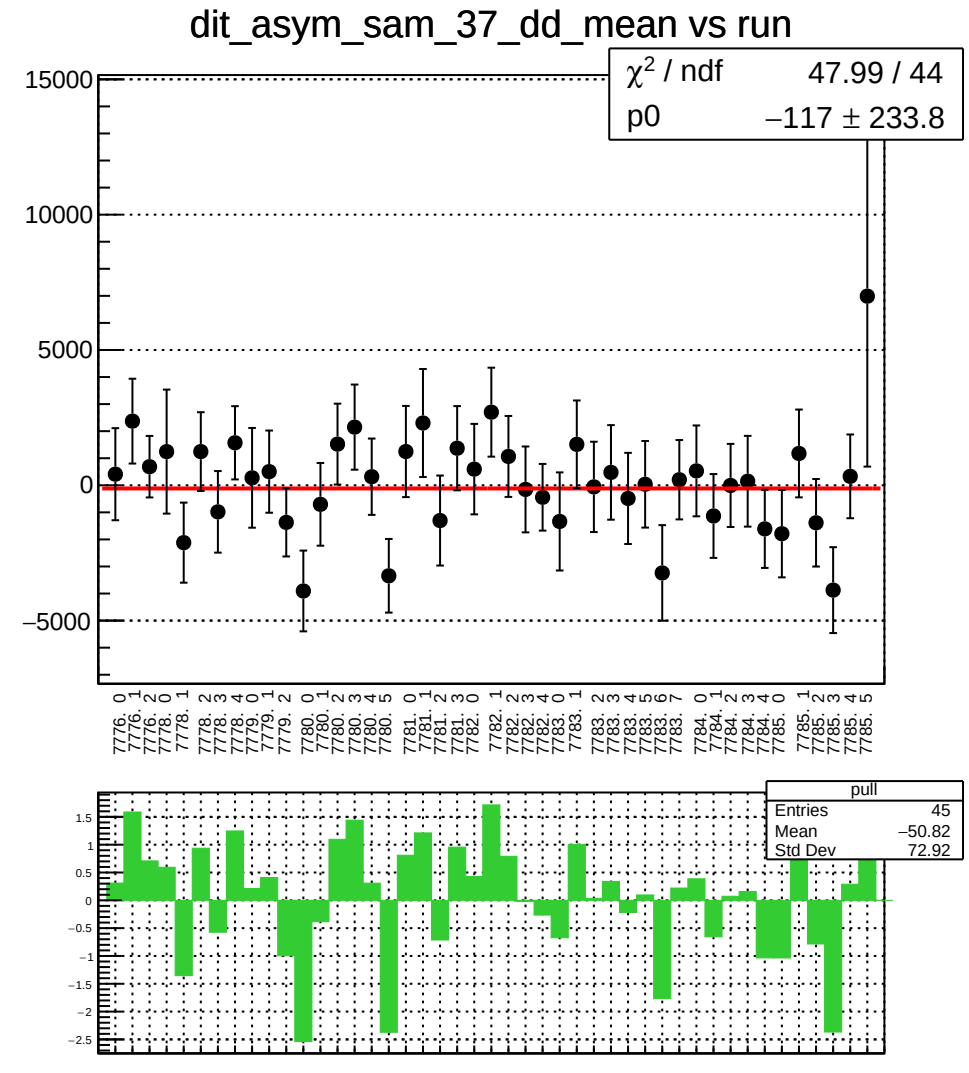

pull1D
Entries 45
Mean −0.01467
Std Dev 0.9819
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

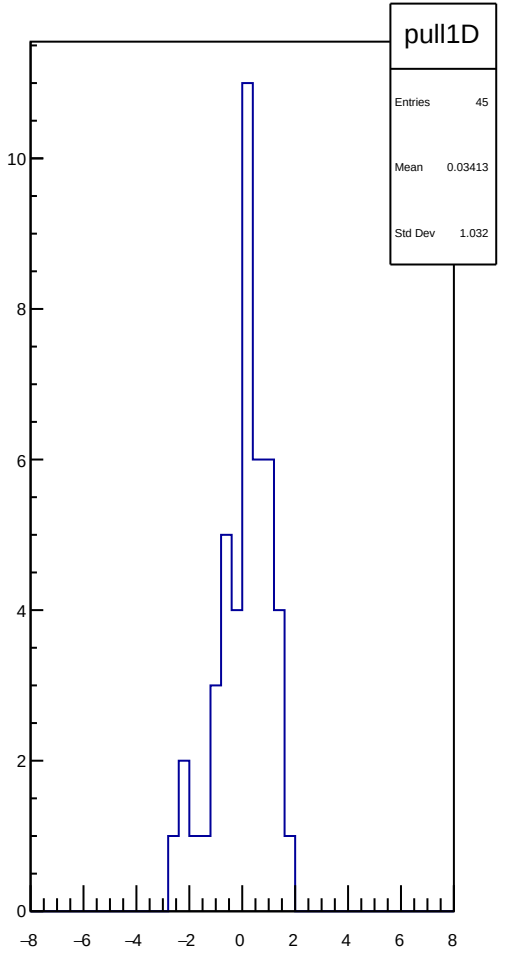

asym_sam_26_dd_correction_rms vs run
χ² / ndf 1767 / 44
p0 3713 ± 4.003
4200
4100
4000
3900
3800
3700
3600
3500
3400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

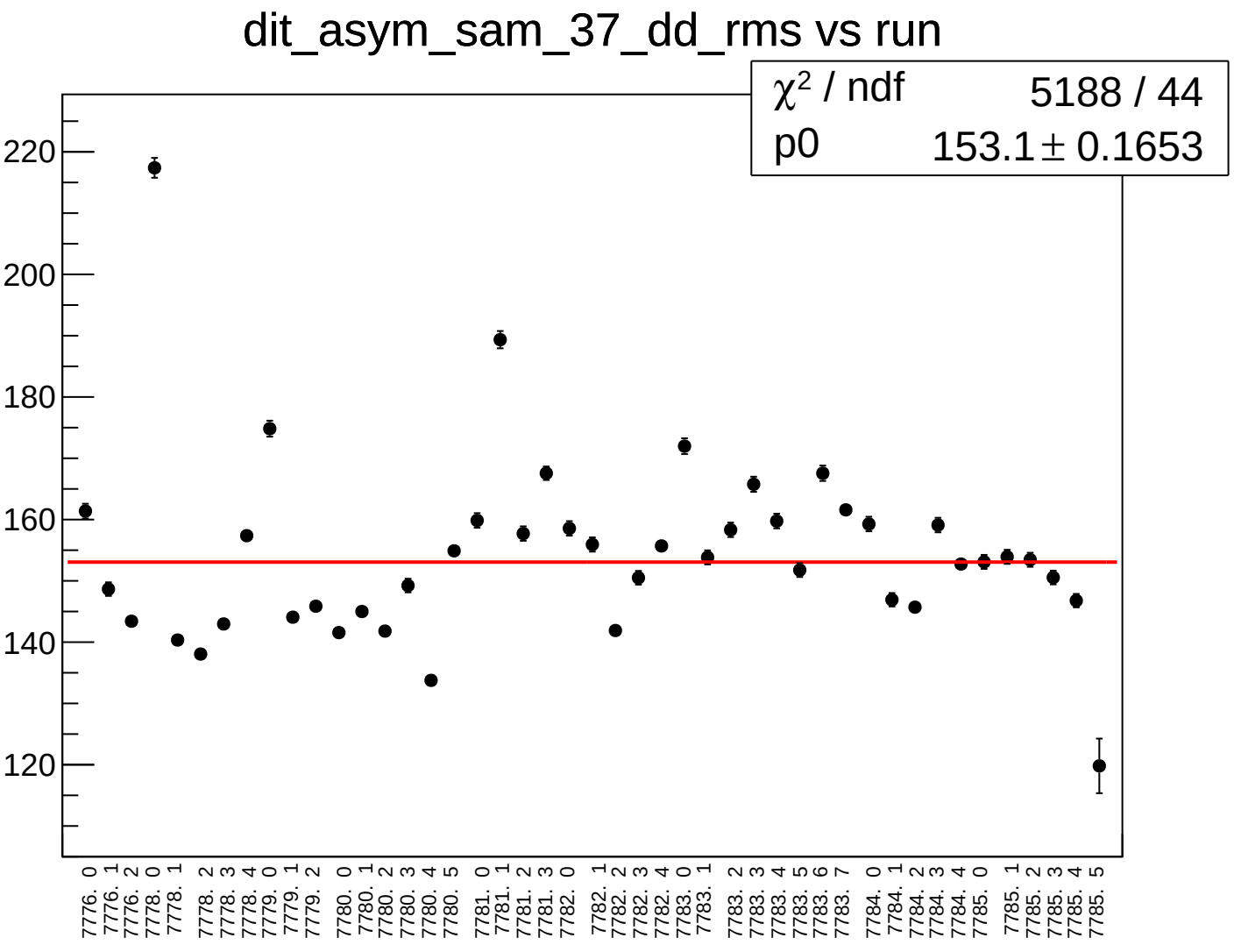

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 42.59 / 44
p0 −3309 ± 5642
300
200
100
0
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −10.43
Std Dev 25.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

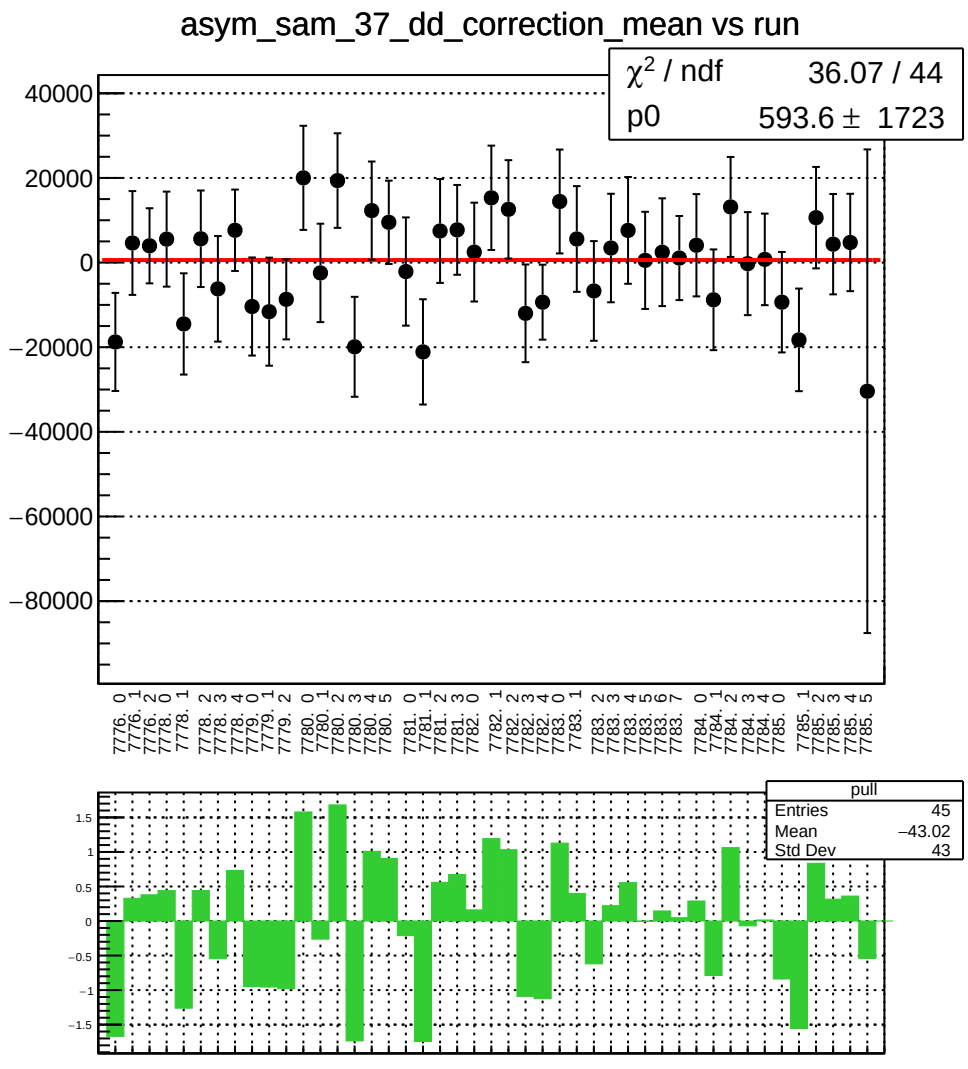

pull1D
Entries 45
Mean 0.01434
Std Dev 0.9727
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

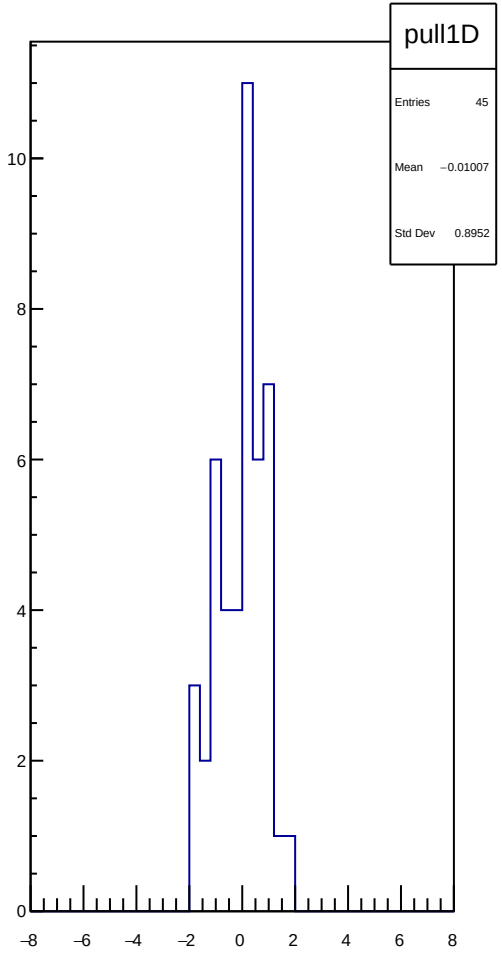

asym_sam_26_dd_rms vs run
χ² / ndf 1738 / 44
p0 3701 ± 3.99
4200
4100
4000
3900
3800
3700
3600
3500
3400
3300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

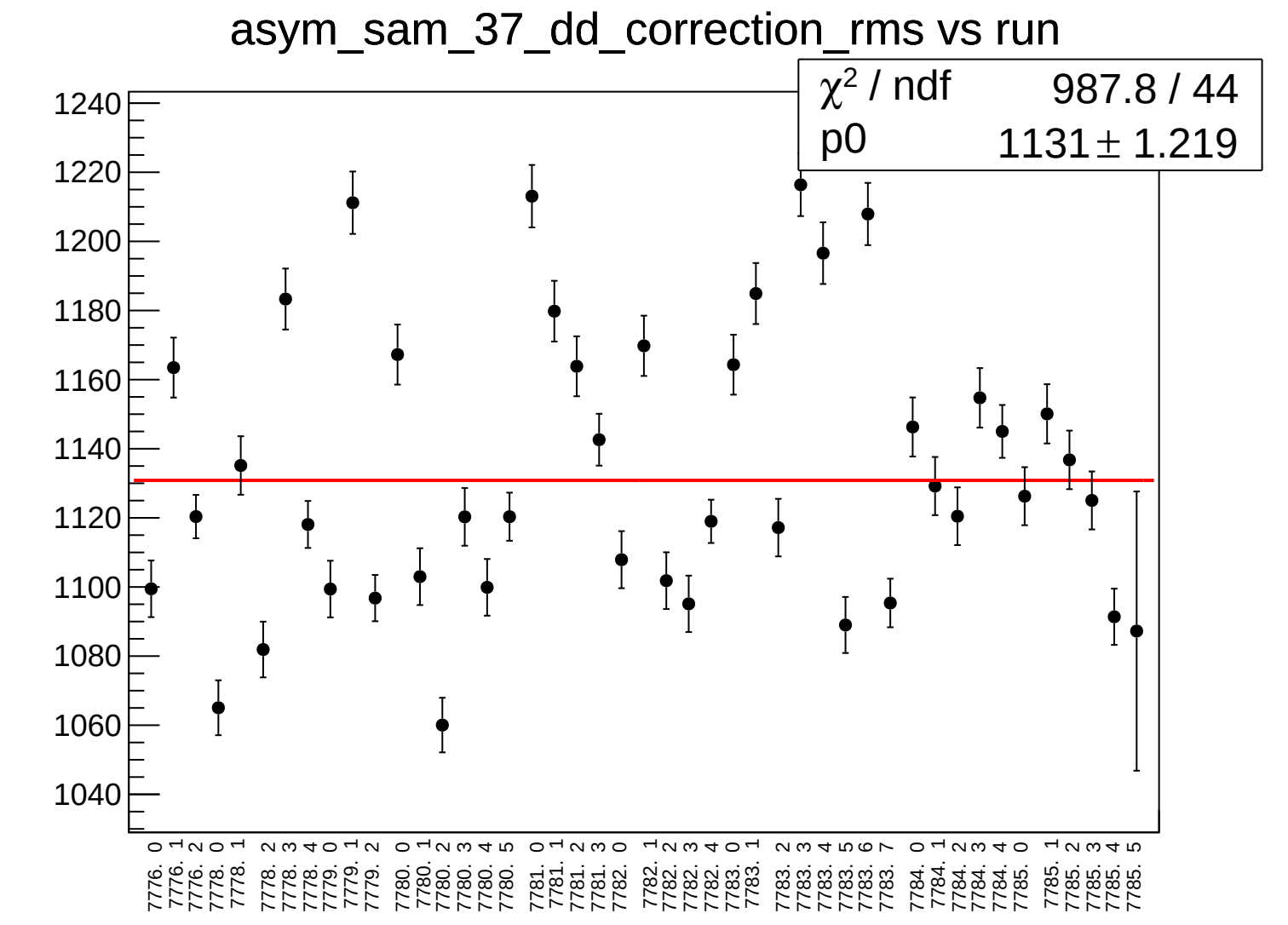

dit_asym_sam_37_dd_mean vs run
χ² / ndf 47.99 / 44
p0 −117 ± 233.8
15000
10000
5000
0
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −50.82
Std Dev 72.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

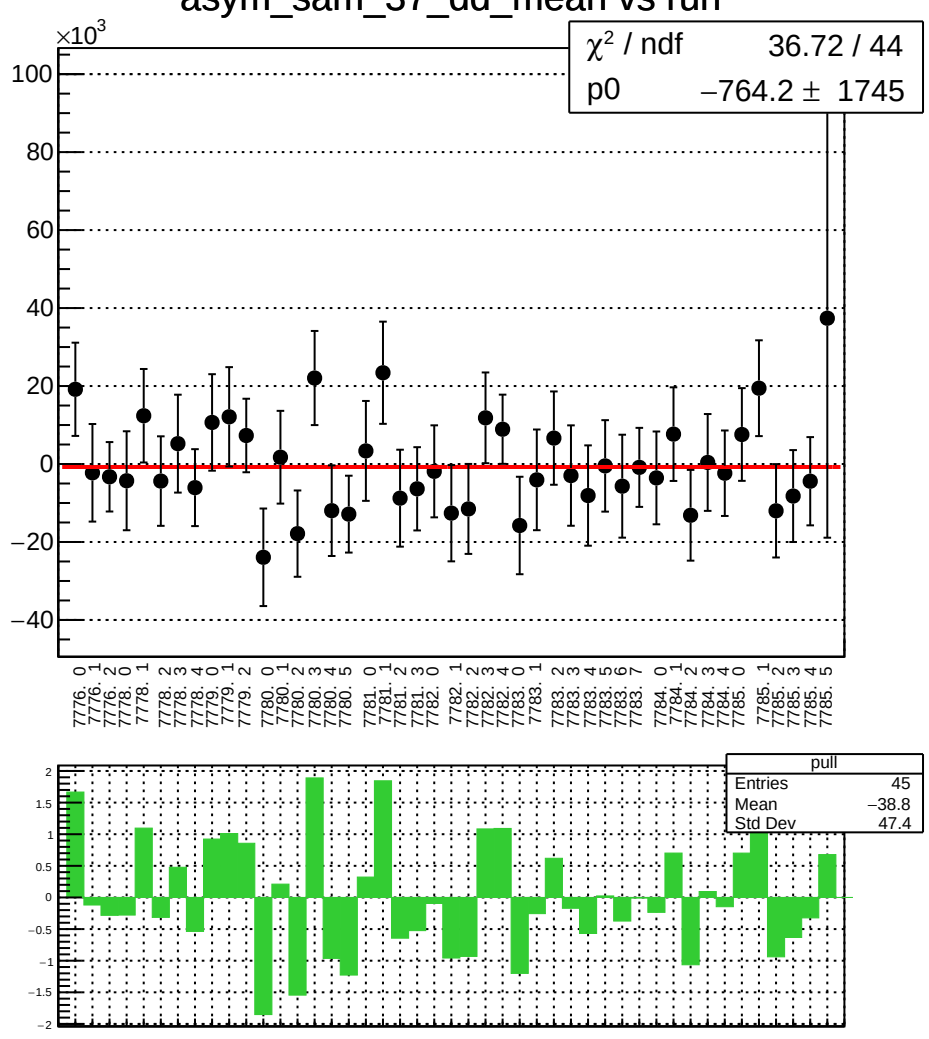

pull1D
Entries 45
Mean 0.03413
Std Dev 1.032
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

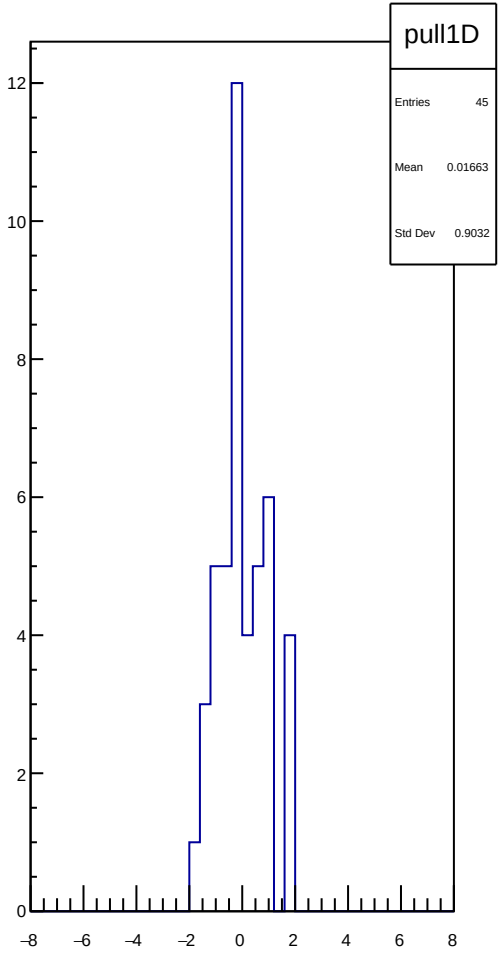

dit_asym_sam_37_dd_rms vs run
χ² / ndf 5188 / 44
p0 153.1 ± 0.1653
220
200
180
160
140
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

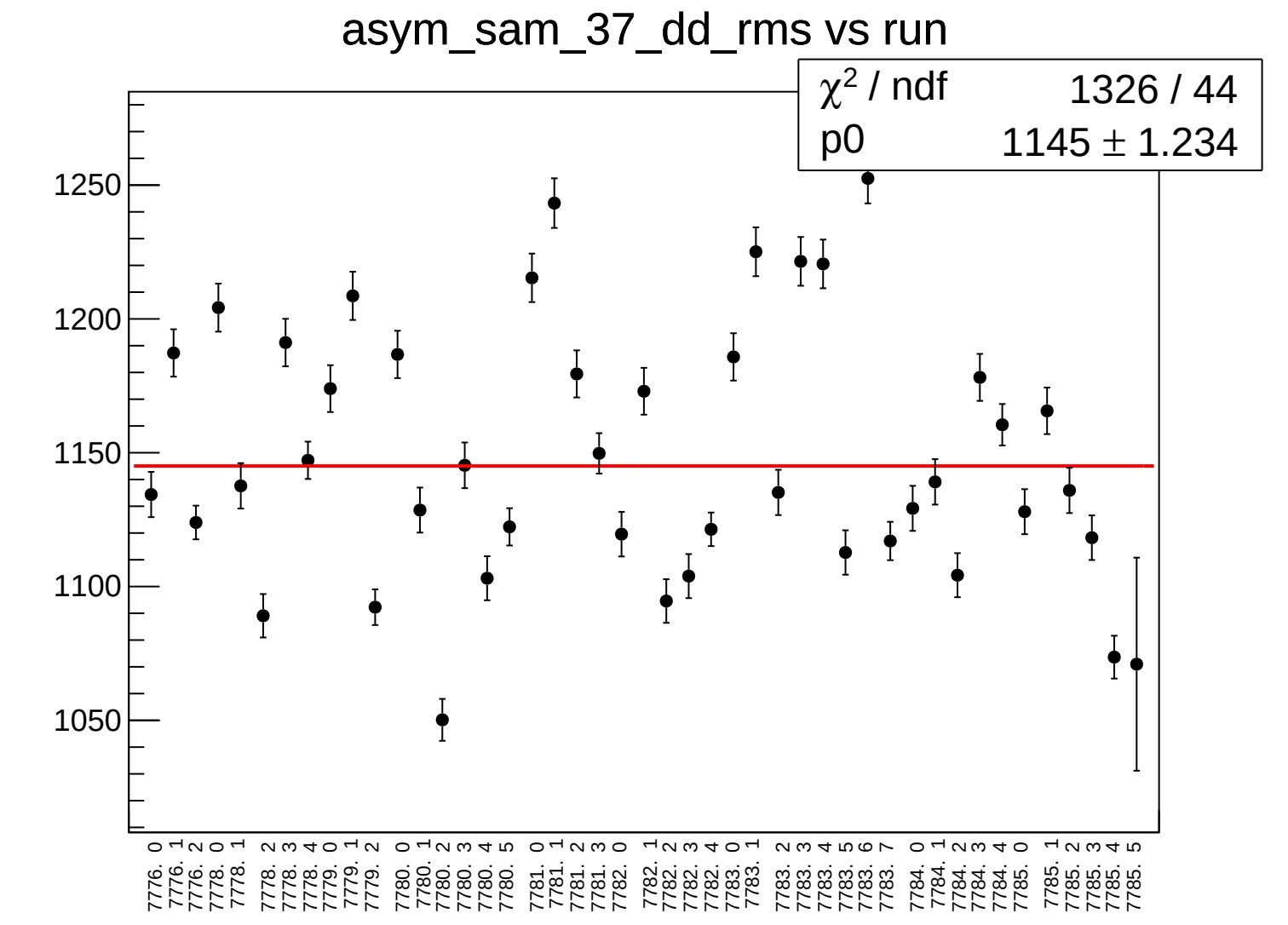

asym_sam_37_dd_correction_mean vs run
χ² / ndf 36.07 / 44
p0 593.6 ± 1723
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −43.02
Std Dev 43
1.5
1
0.5
0
−0.5
−1
−1.5

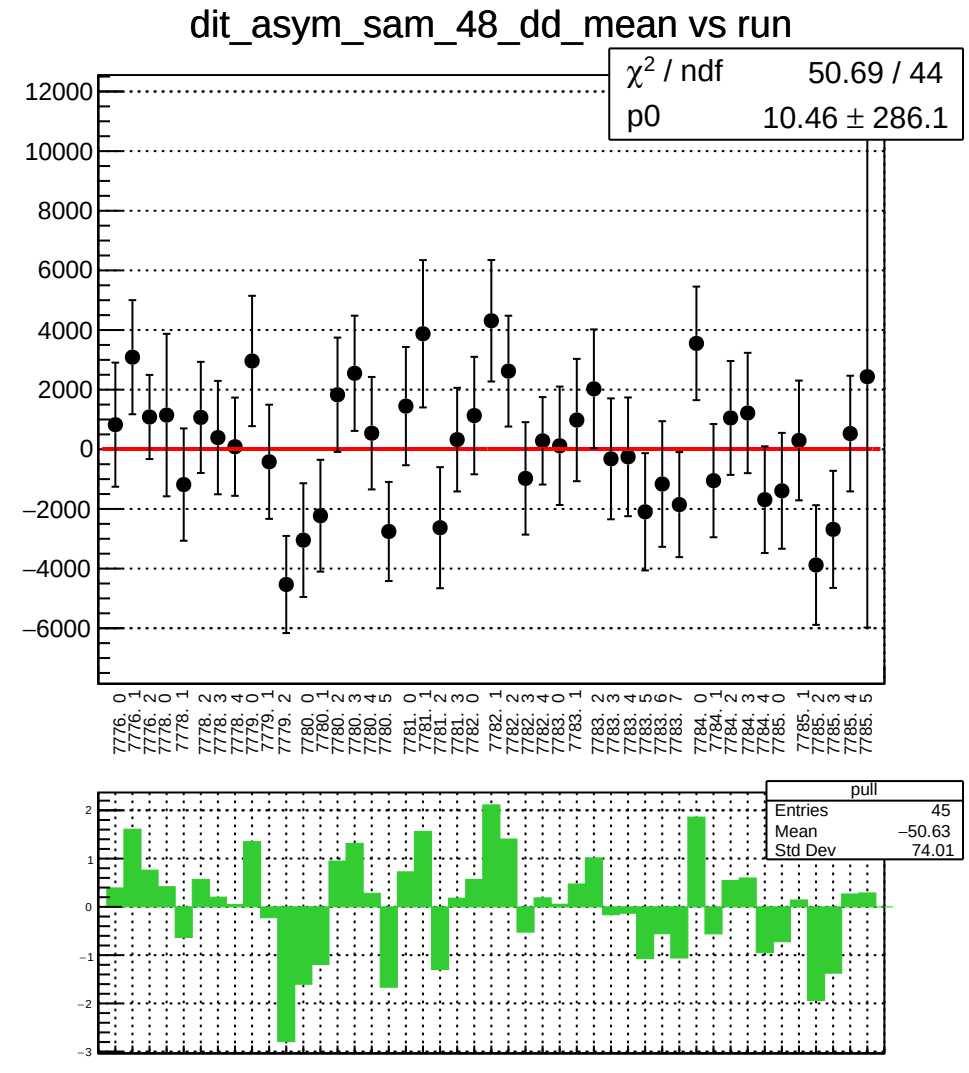

pull1D
Entries 45
Mean −0.01007
Std Dev 0.8952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

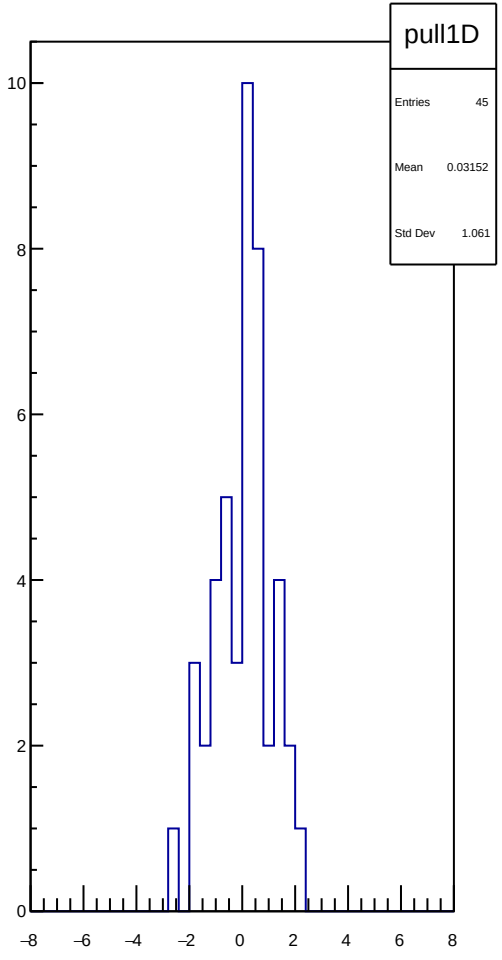

asym_sam_37_dd_correction_rms vs run
χ² / ndf 987.8 / 44
p0 1131 ± 1.219
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

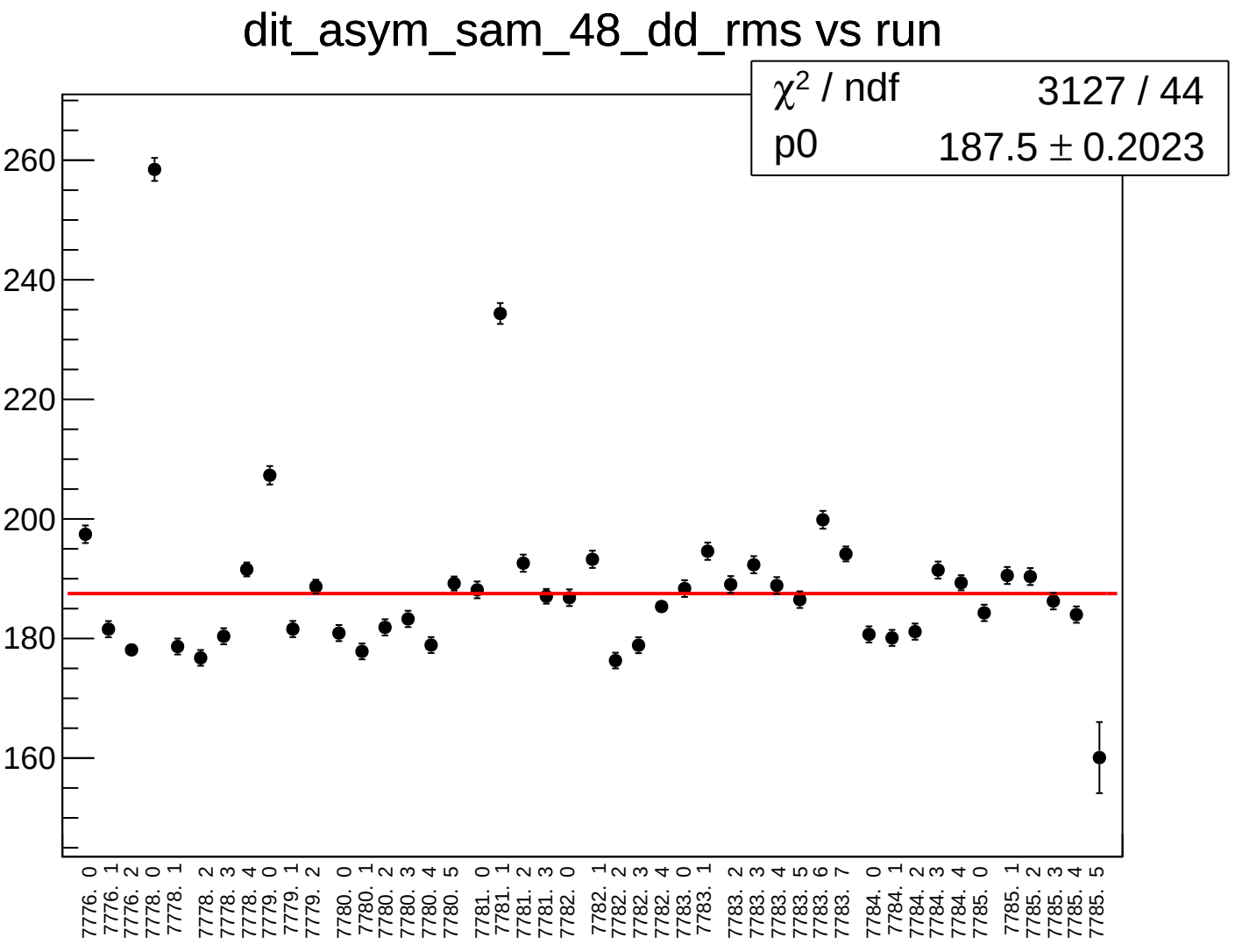

asym_sam_37_dd_mean vs run
×10^3
χ² / ndf 36.72 / 44
p0 −764.2 ± 1745
100
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −38.8
Std Dev 47.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

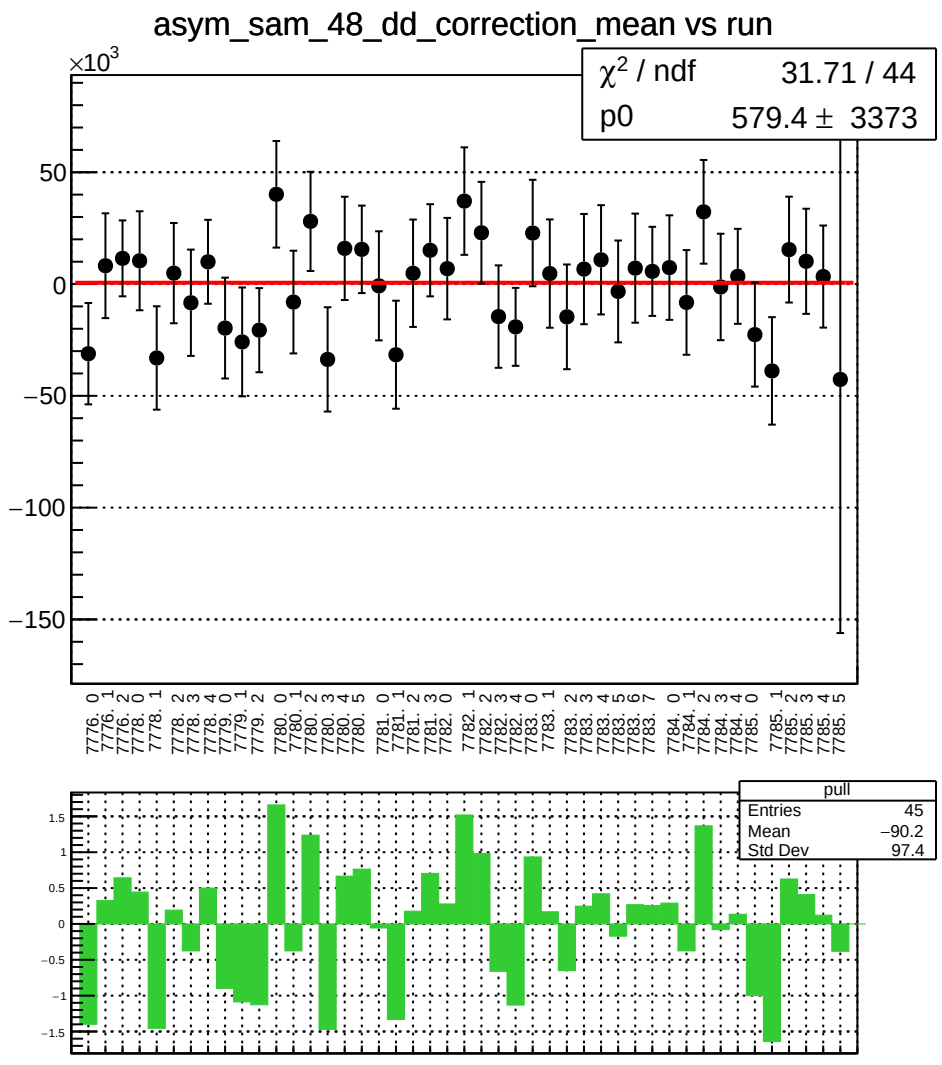

pull1D
Entries 45
Mean 0.01663
Std Dev 0.9032
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

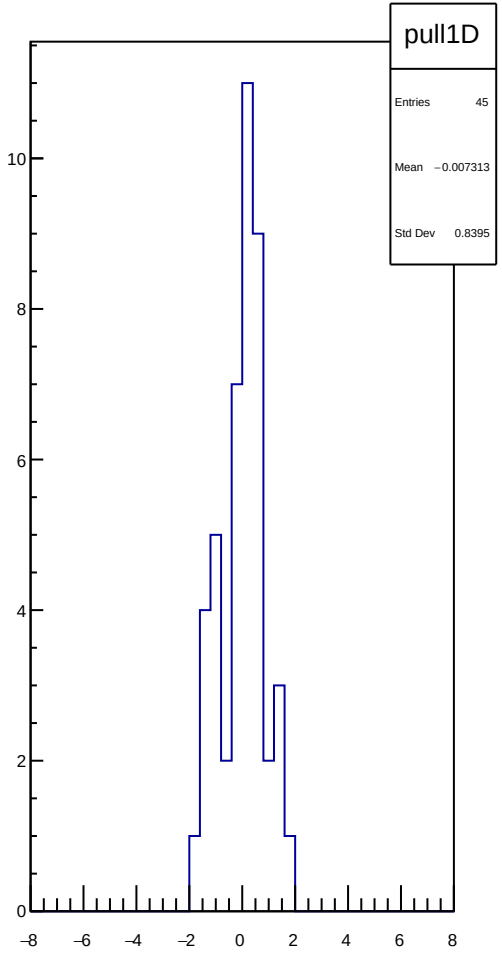

asym_sam_37_dd_rms vs run
χ² / ndf 1326 / 44
p0 1145 ± 1.234
1250
1200
1150
1100
1050
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

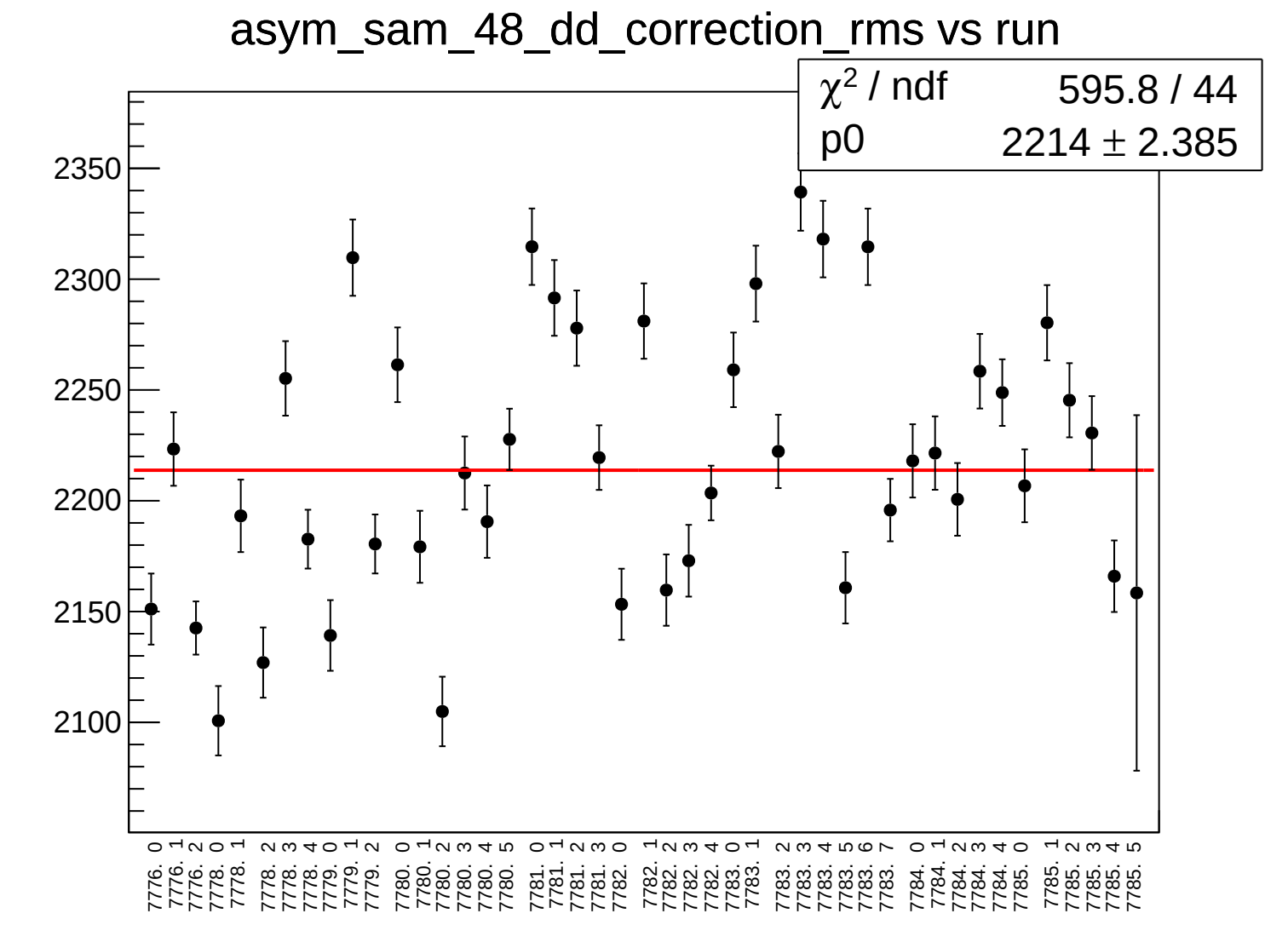

dit_asym_sam_48_dd_mean vs run
χ² / ndf 50.69 / 44
p0 10.46 ± 286.1
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −50.63
Std Dev 74.01
2
1
0
−1
−2
−3


pull1D
Entries 45
Mean 0.03152
Std Dev 1.061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_48_dd_rms vs run
χ² / ndf 3127 / 44
p0 187.5 ± 0.2023
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 31.71 / 44
p0 579.4 ± 3373
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −90.2
Std Dev 97.4
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean −0.007313
Std Dev 0.8395
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_correction_rms vs run
χ² / ndf 595.8 / 44
p0 2214 ± 2.385
2350
2300
2250
2200
2150
2100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
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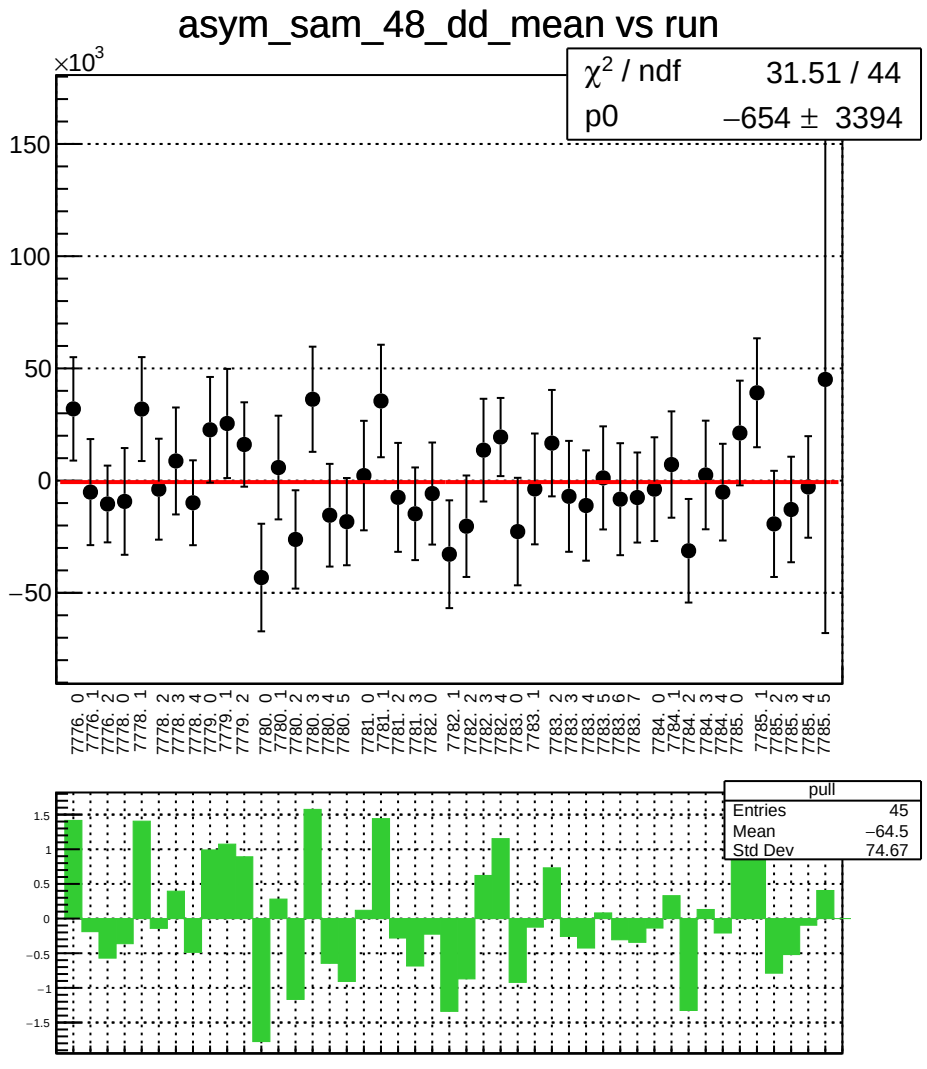
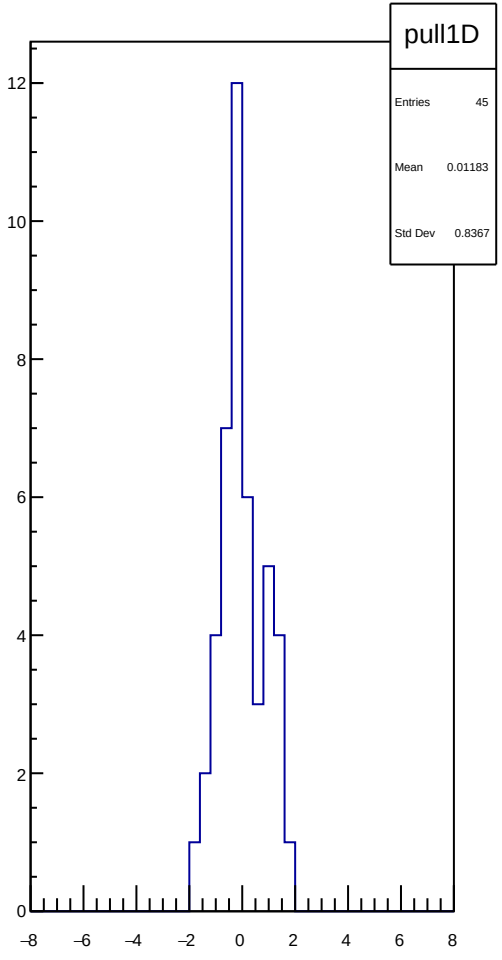
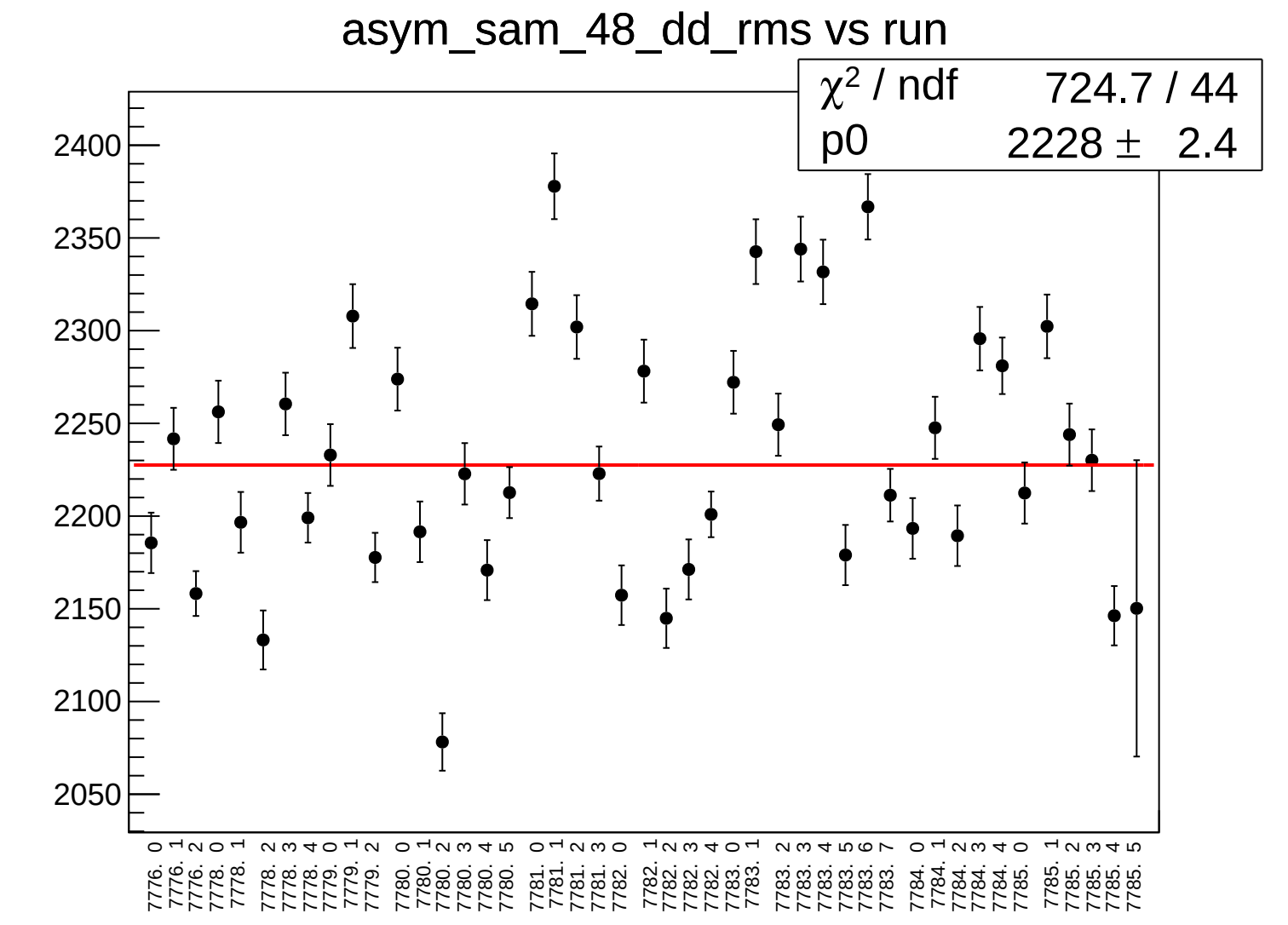
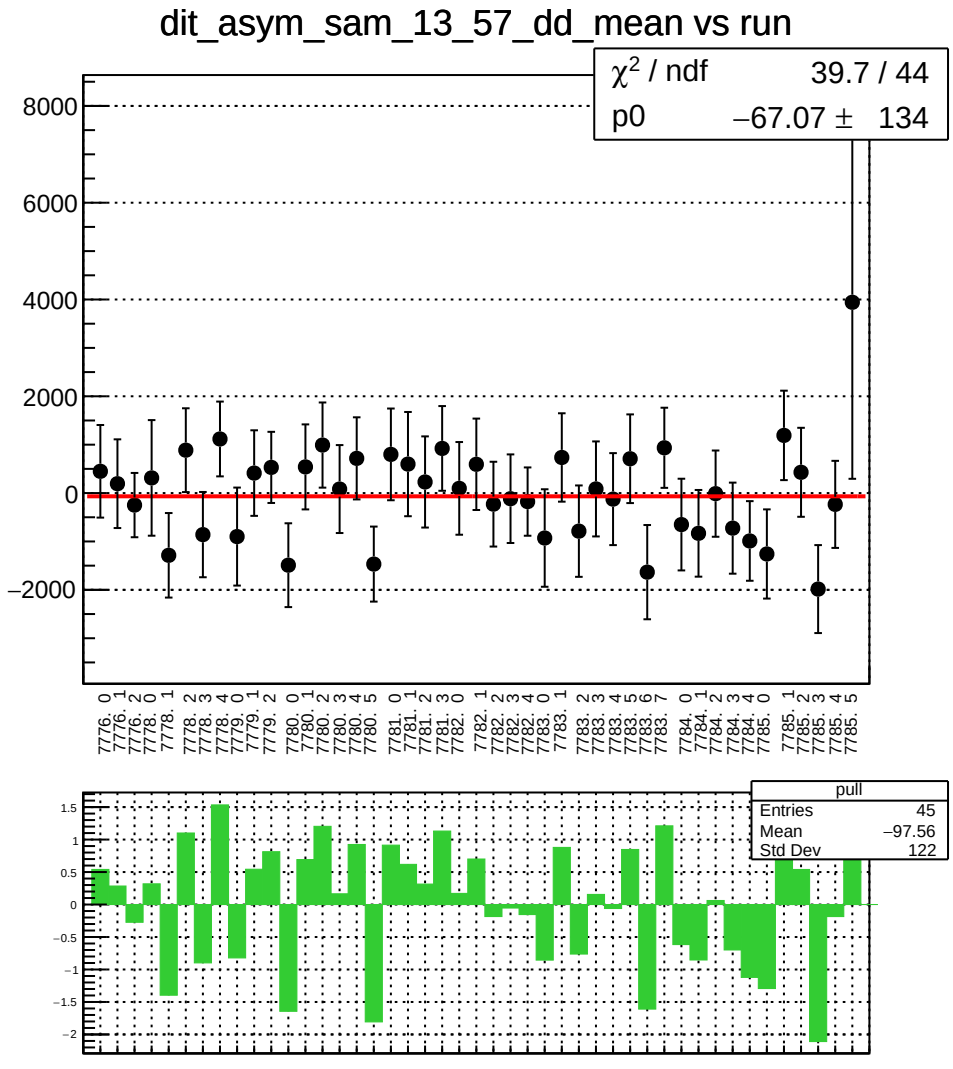
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 31.51 / 44
p0 −654 ± 3394
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −64.5
Std Dev 74.67
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 45
Mean 0.01183
Std Dev 0.8367
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_48_dd_rms vs run
χ² / ndf 724.7 / 44
p0 2228 ± 2.4
2400
2350
2300
2250
2200
2150
2100
2050
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 39.7 / 44
p0 −67.07 ± 134
8000
6000
4000
2000
0
−2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
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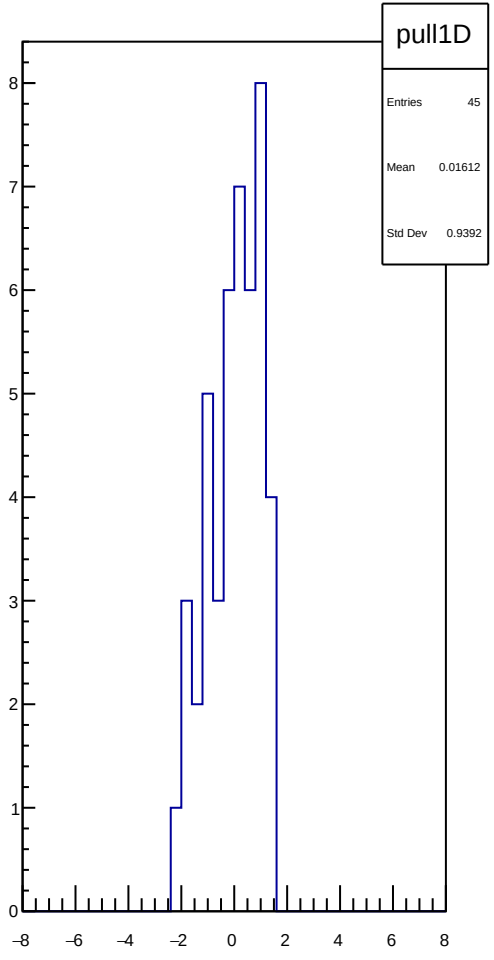
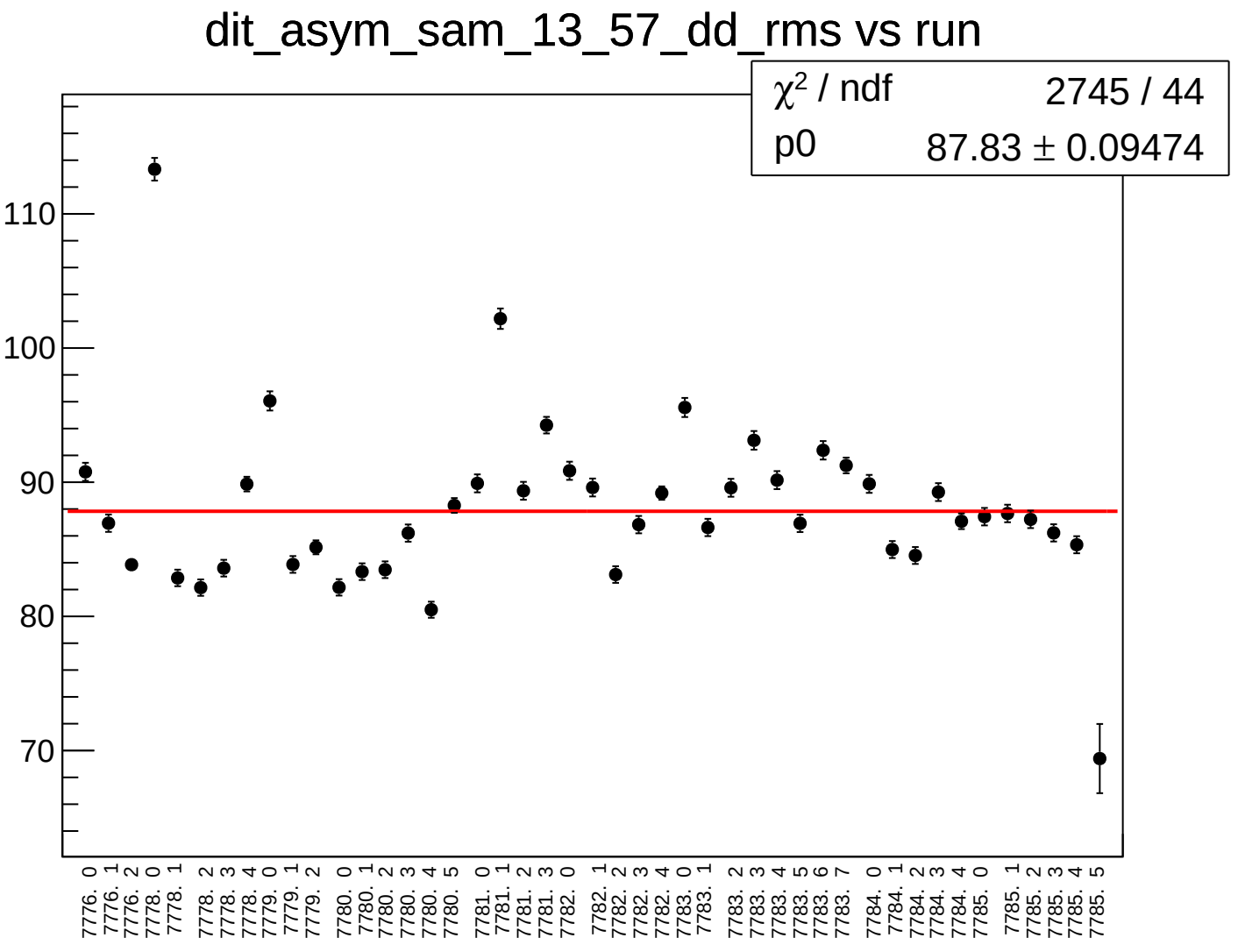
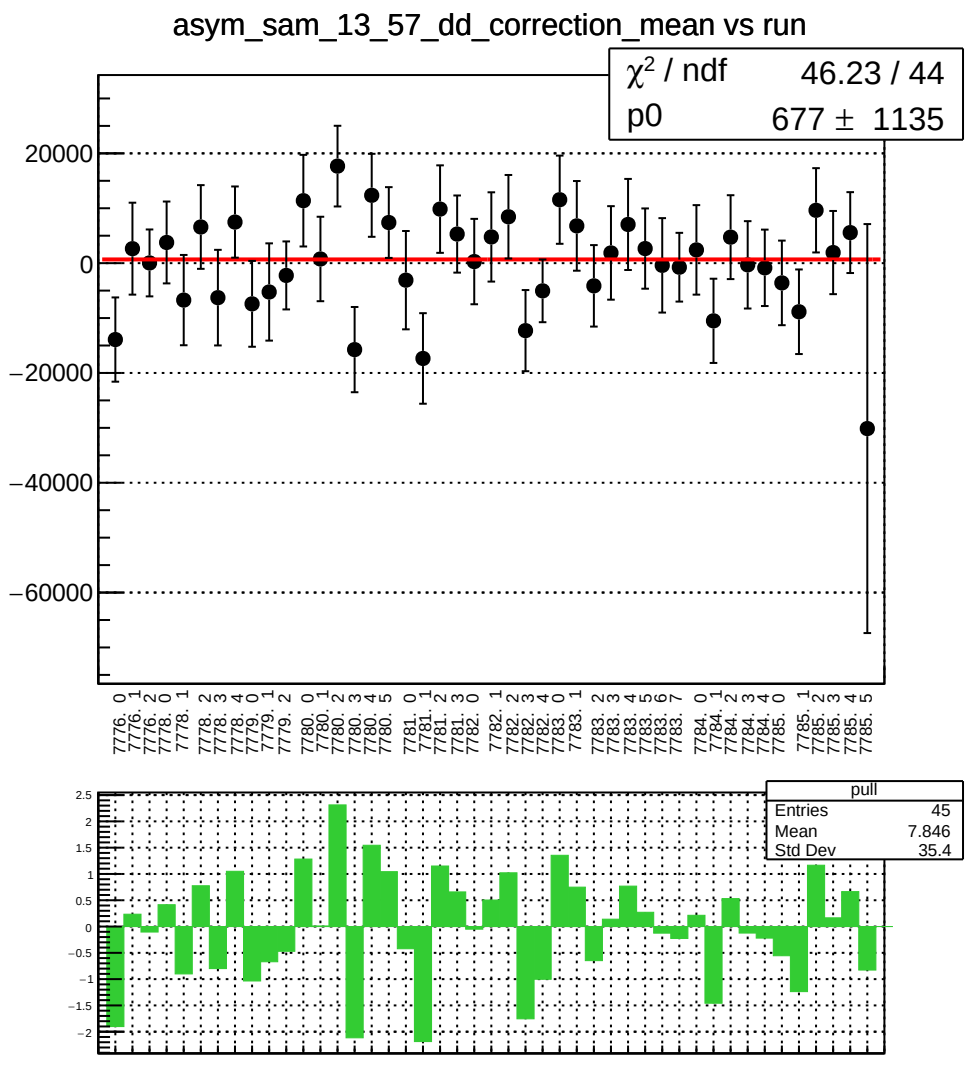
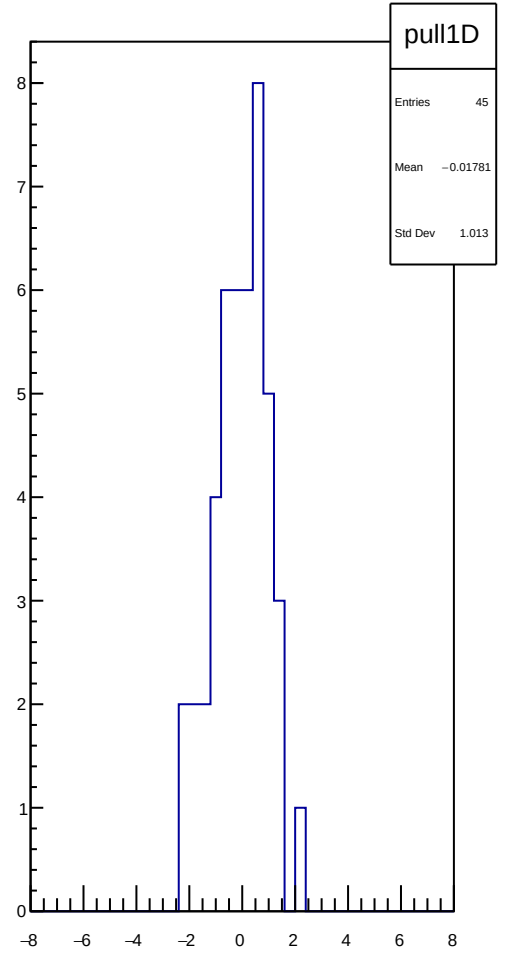
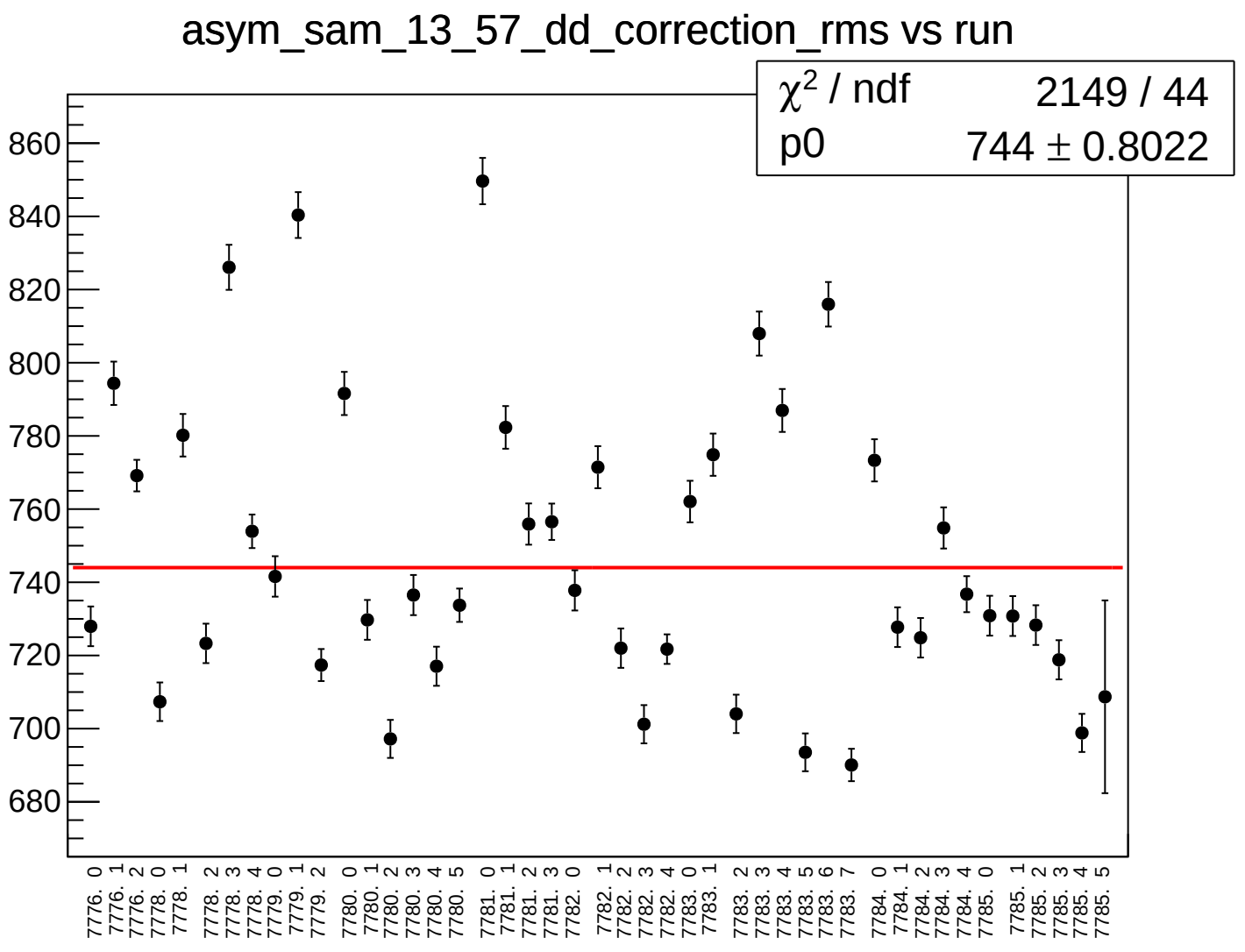
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −97.56
Std Dev 122
1.5
1
0.5
0
−0.5
−1
−1.5
−2

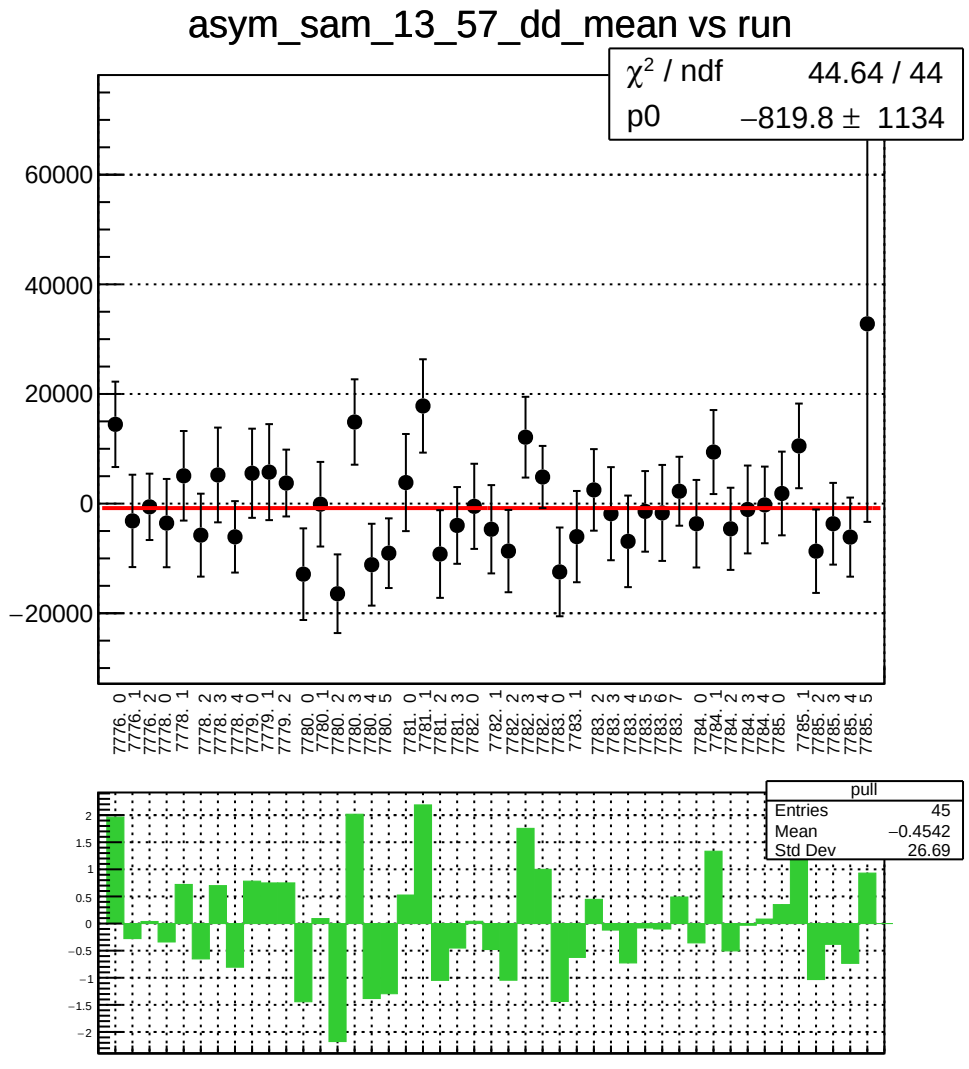

pull1D
Entries 45
Mean 0.01612
Std Dev 0.9392
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

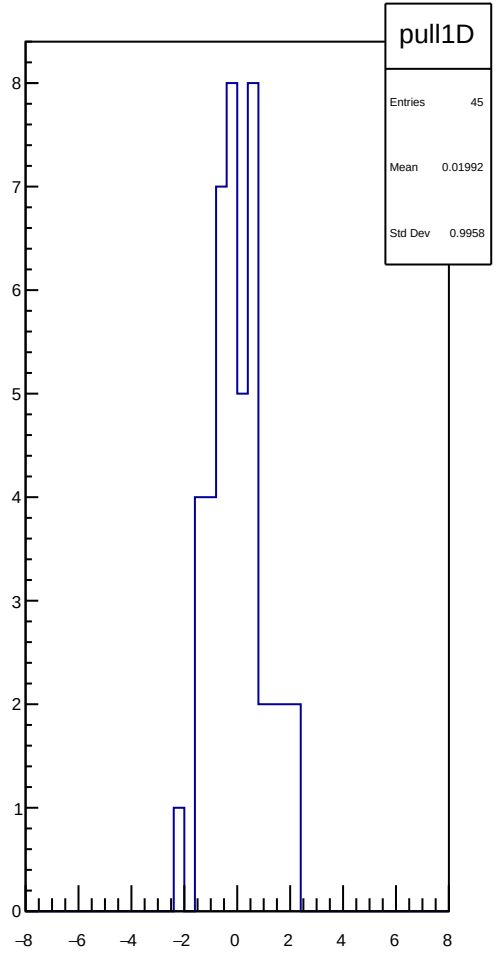

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2745 / 44
p0 87.83 ± 0.09474
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

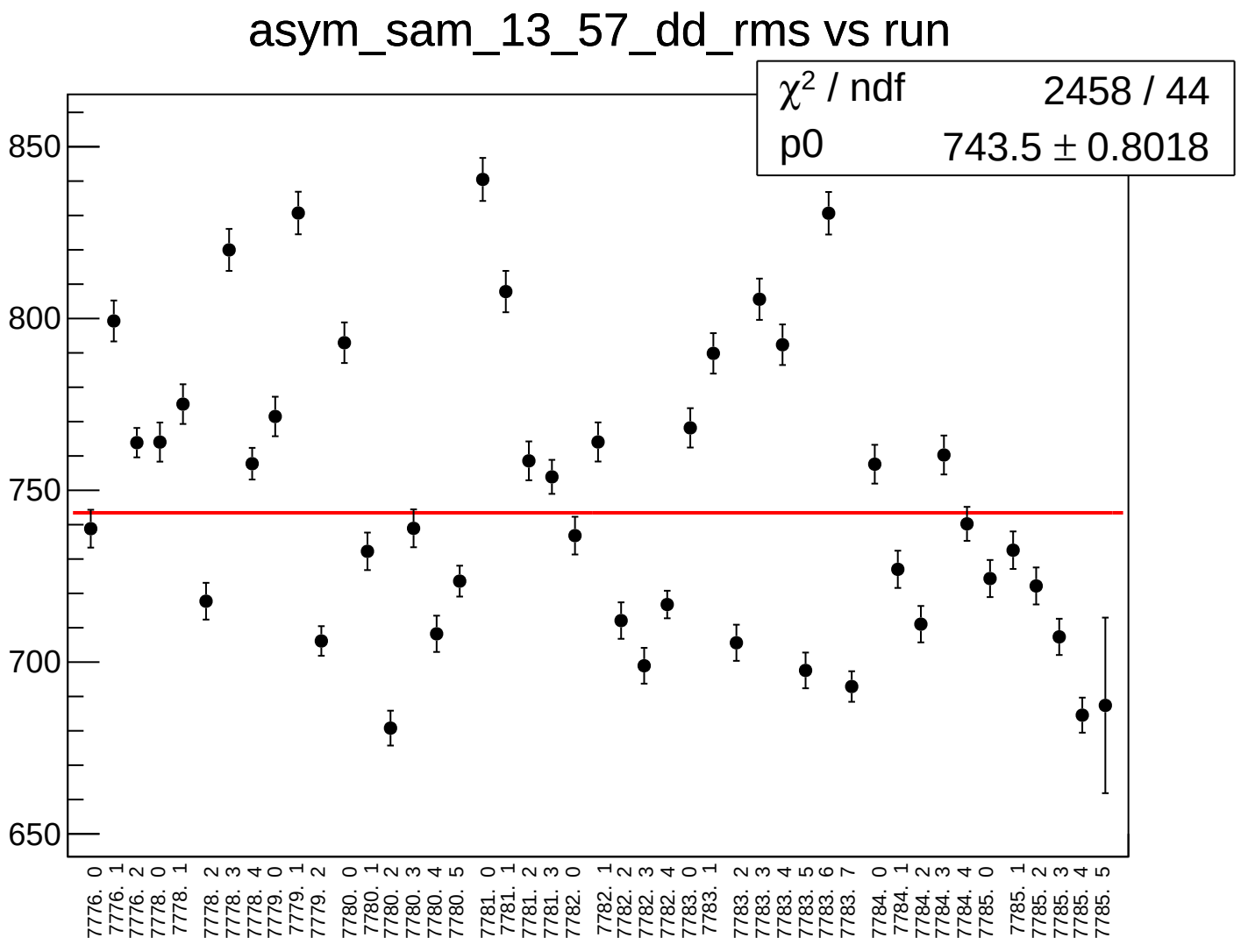

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 46.23 / 44
p0 677 ± 1135
20000
0
−20000
−40000
−60000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.846
Std Dev 35.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

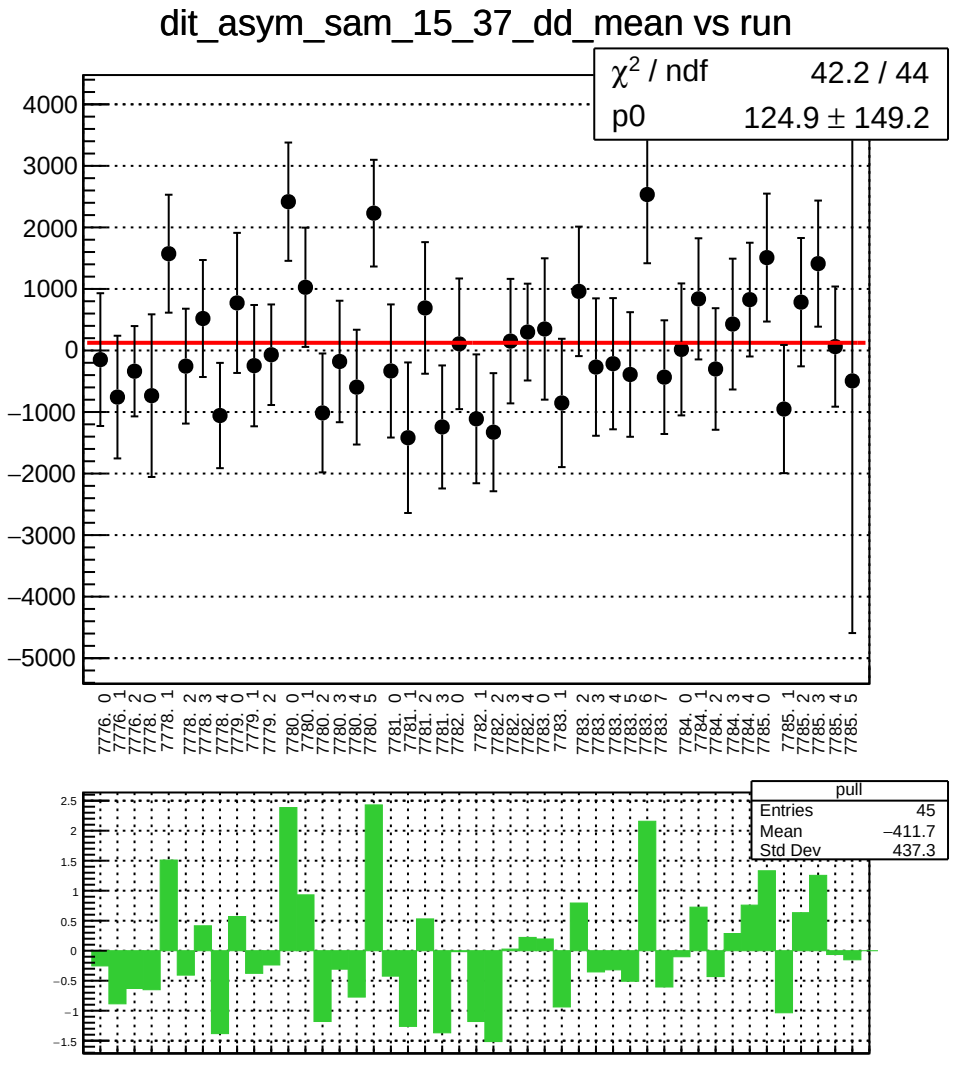

pull1D
Entries 45
Mean −0.01781
Std Dev 1.013
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

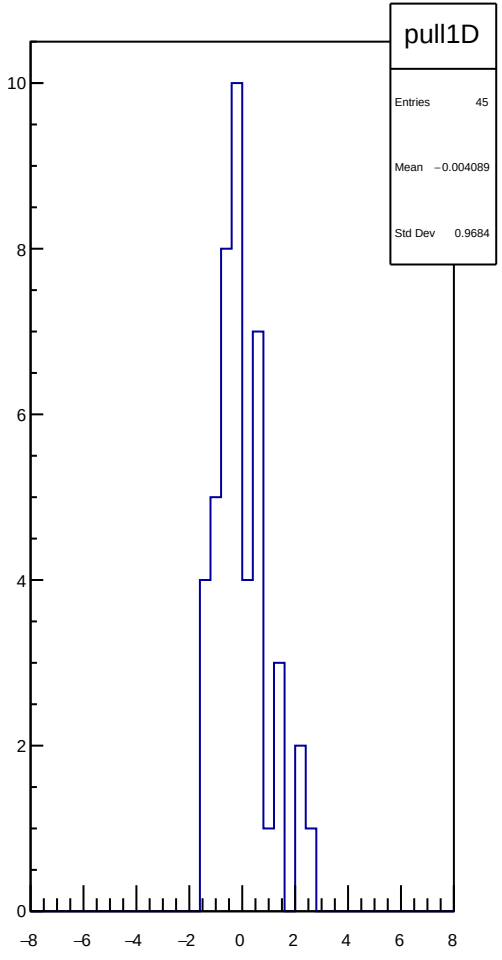

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 2149 / 44
p0 744 ± 0.8022
860
840
820
800
780
760
740
720
700
680
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

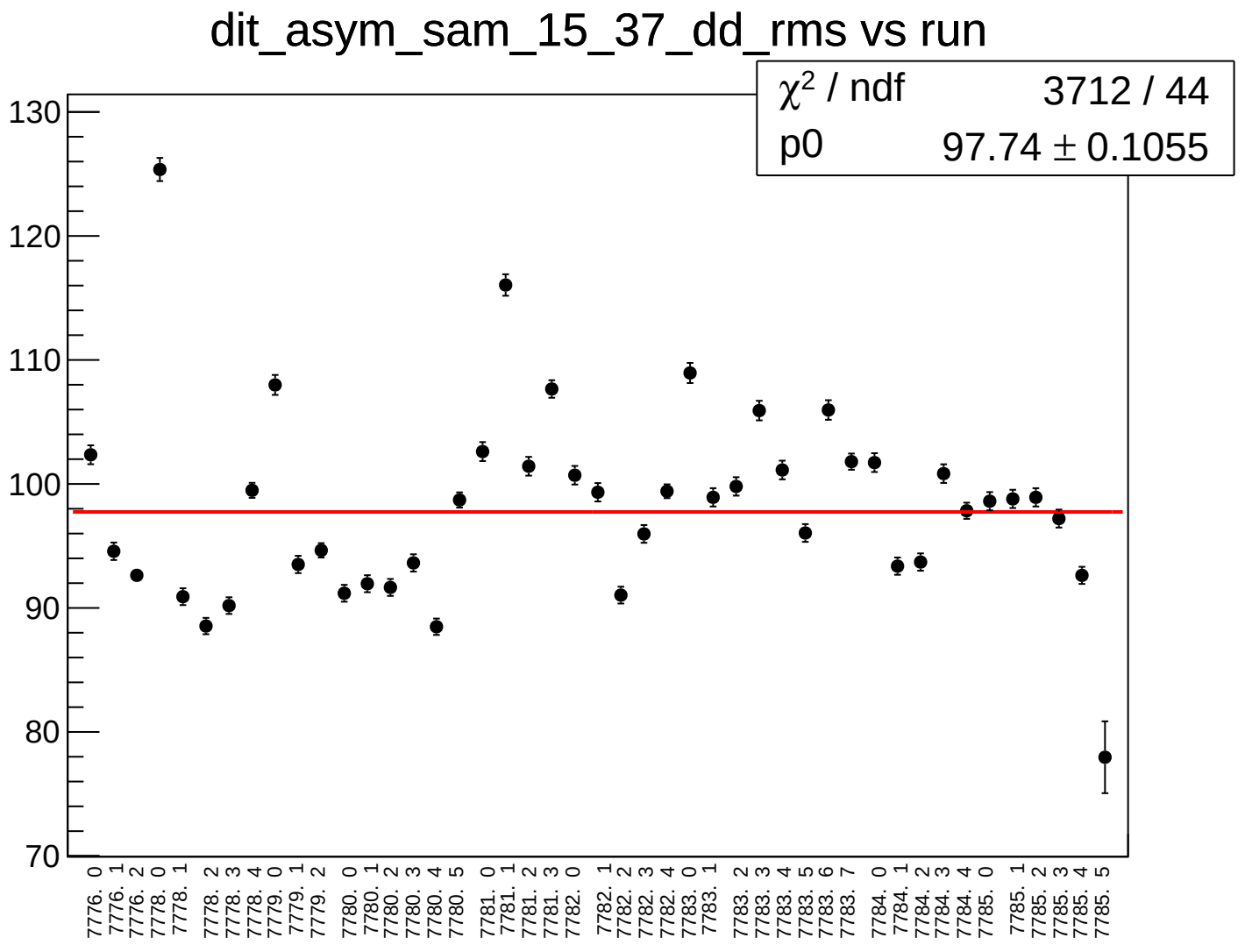

asym_sam_13_57_dd_mean vs run
χ² / ndf 44.64 / 44
p0 −819.8 ± 1134
60000
40000
20000
0
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −0.4542
Std Dev 26.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

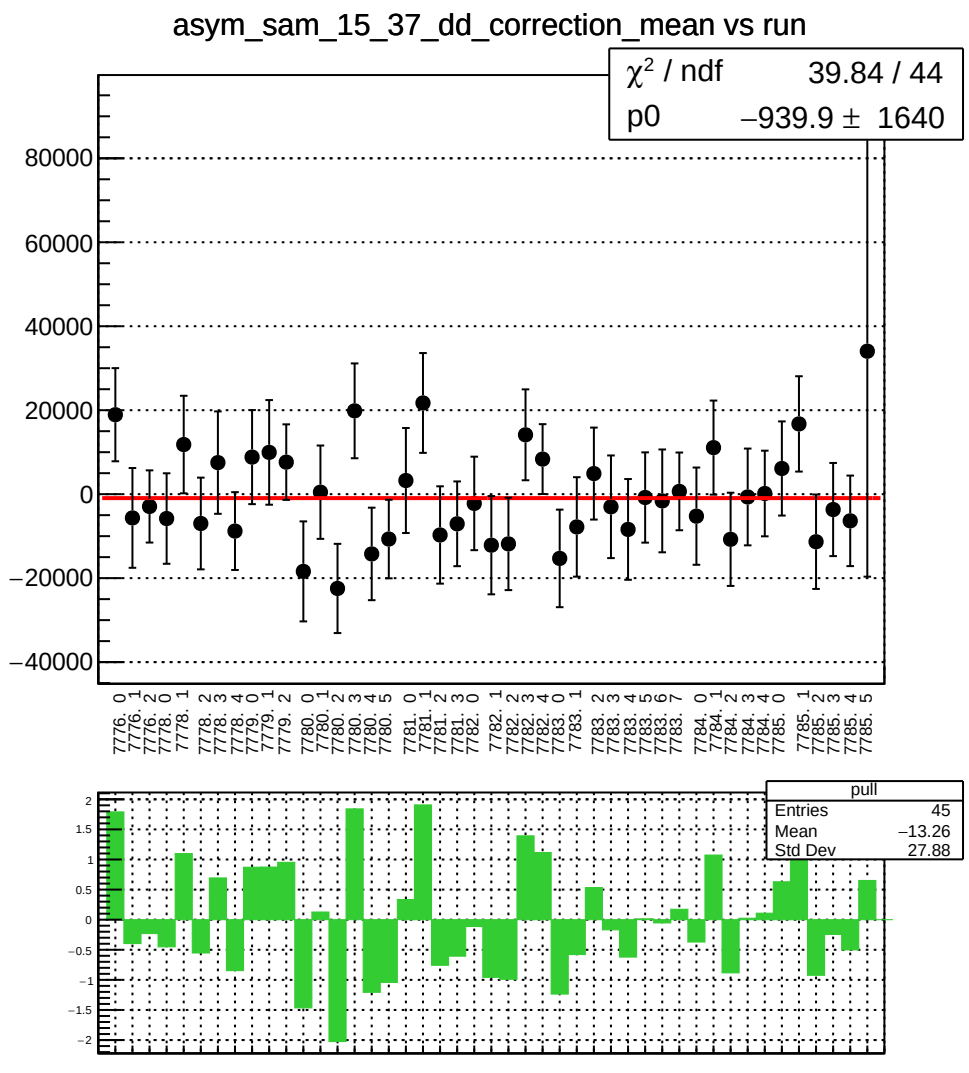

pull1D
Entries 45
Mean 0.01992
Std Dev 0.9958
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

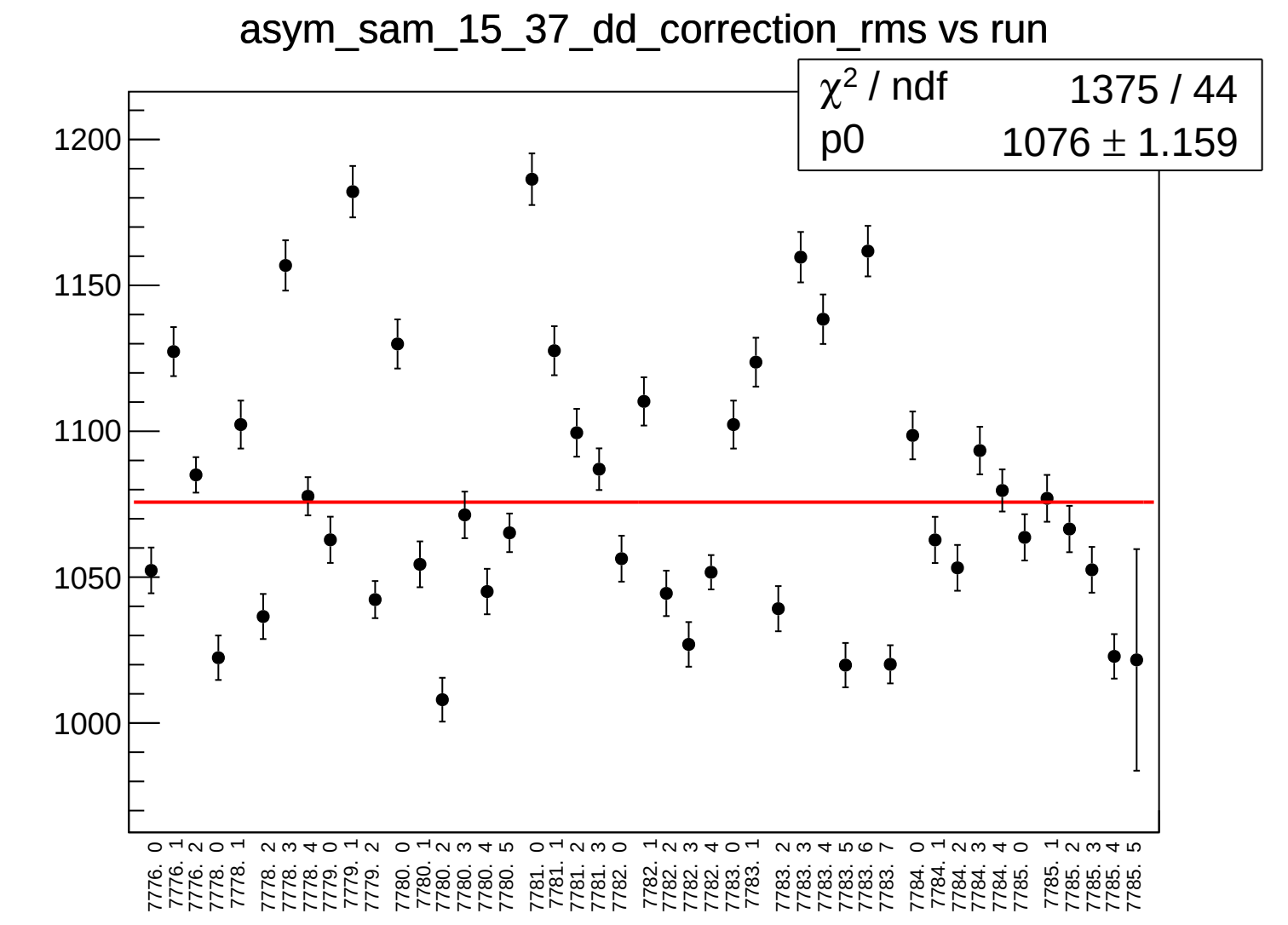

asym_sam_13_57_dd_rms vs run
χ² / ndf 2458 / 44
p0 743.5 ± 0.8018
850
800
750
700
650
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

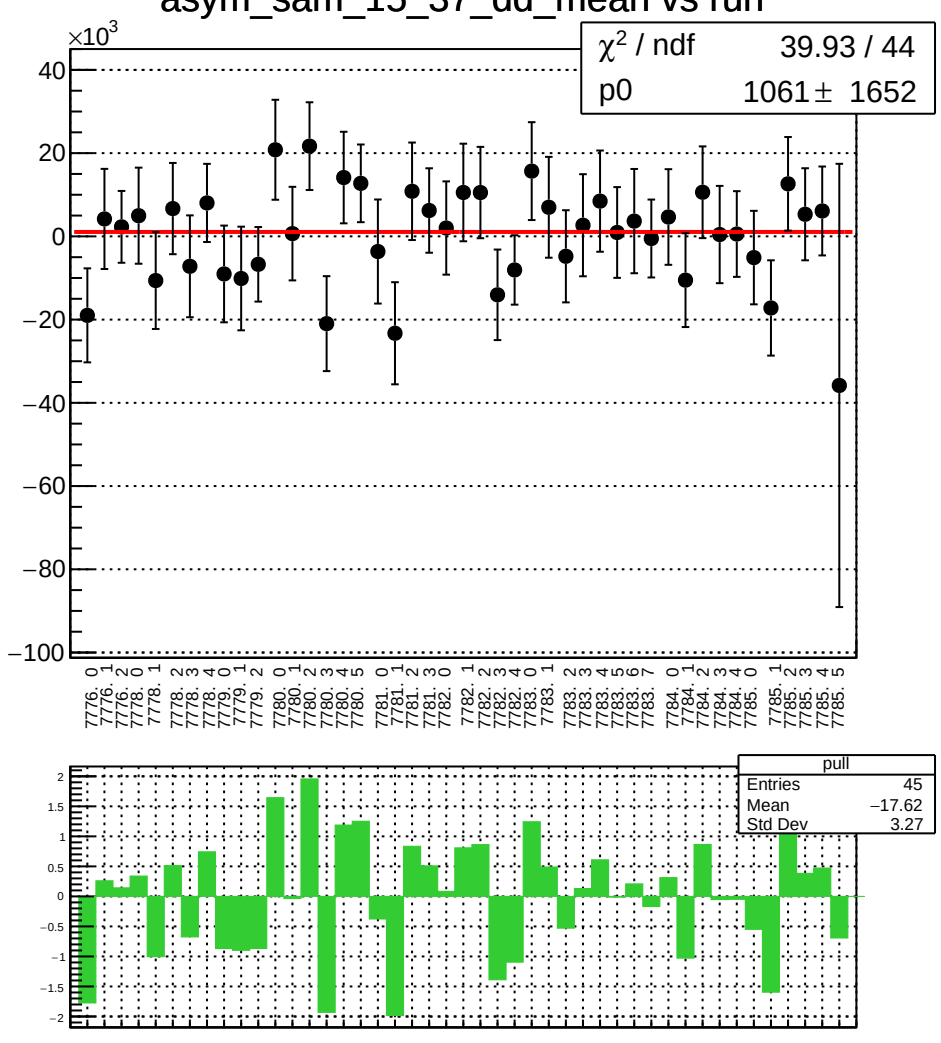

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 42.2 / 44
p0 124.9 ± 149.2
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −411.7
Std Dev 437.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

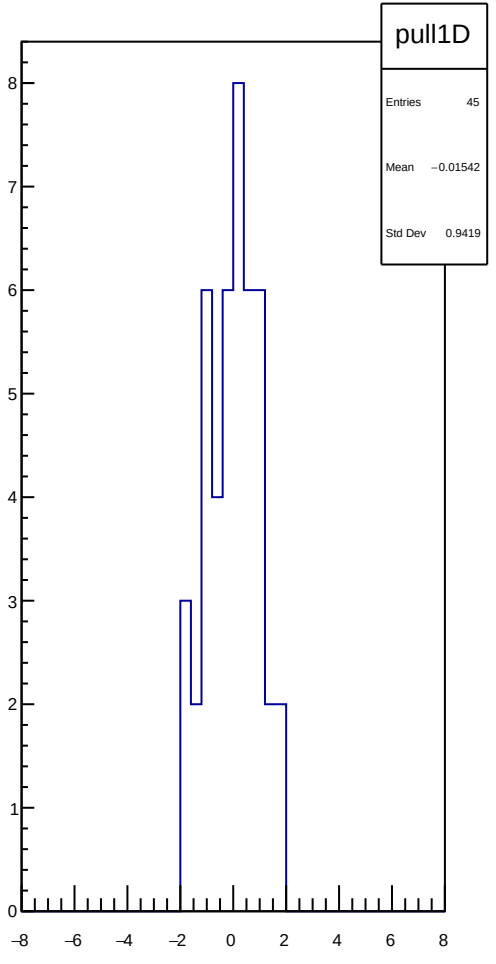

pull1D
Entries 45
Mean −0.004089
Std Dev 0.9684
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

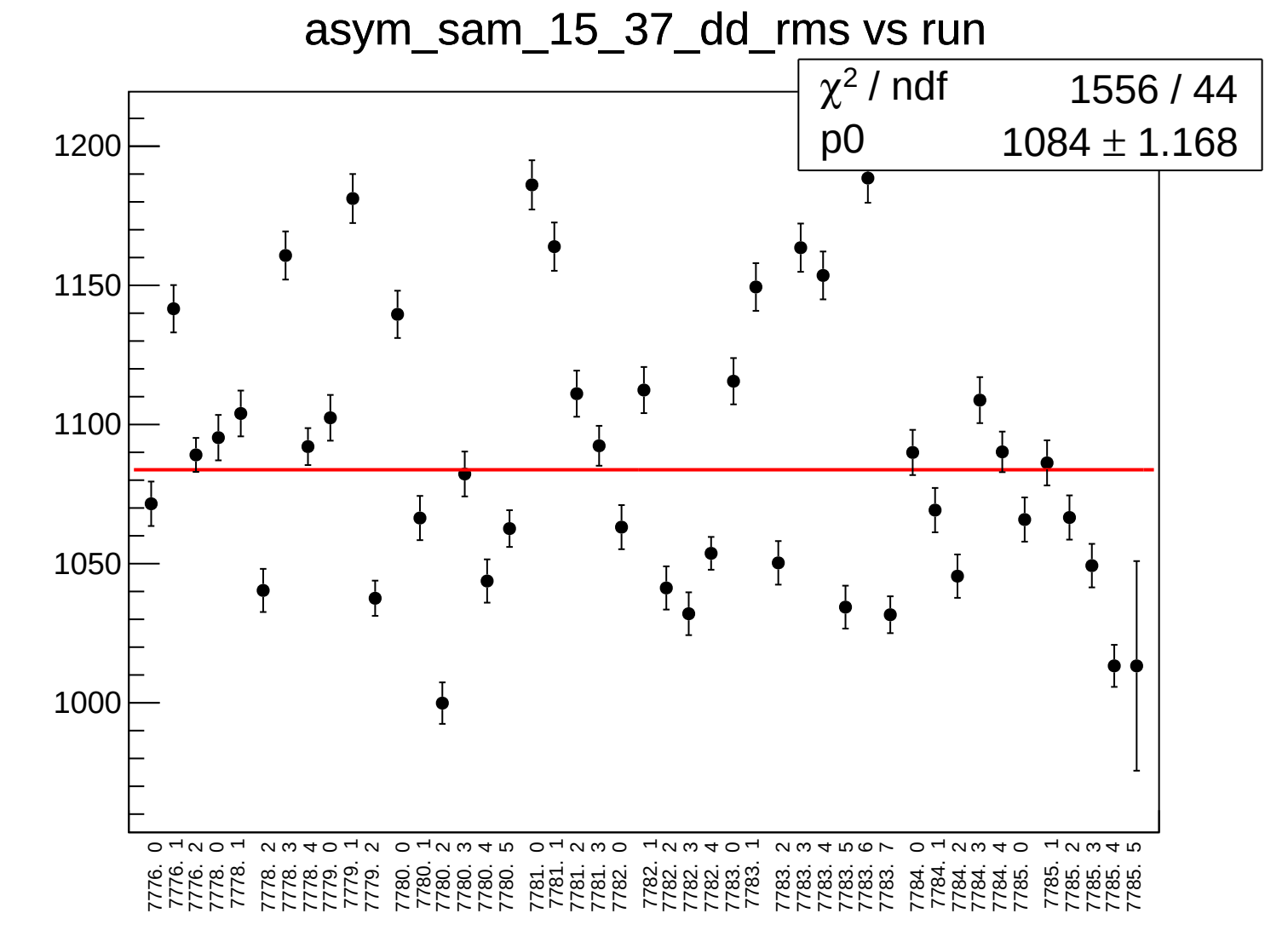

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3712 / 44
p0 97.74 ± 0.1055
130
120
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

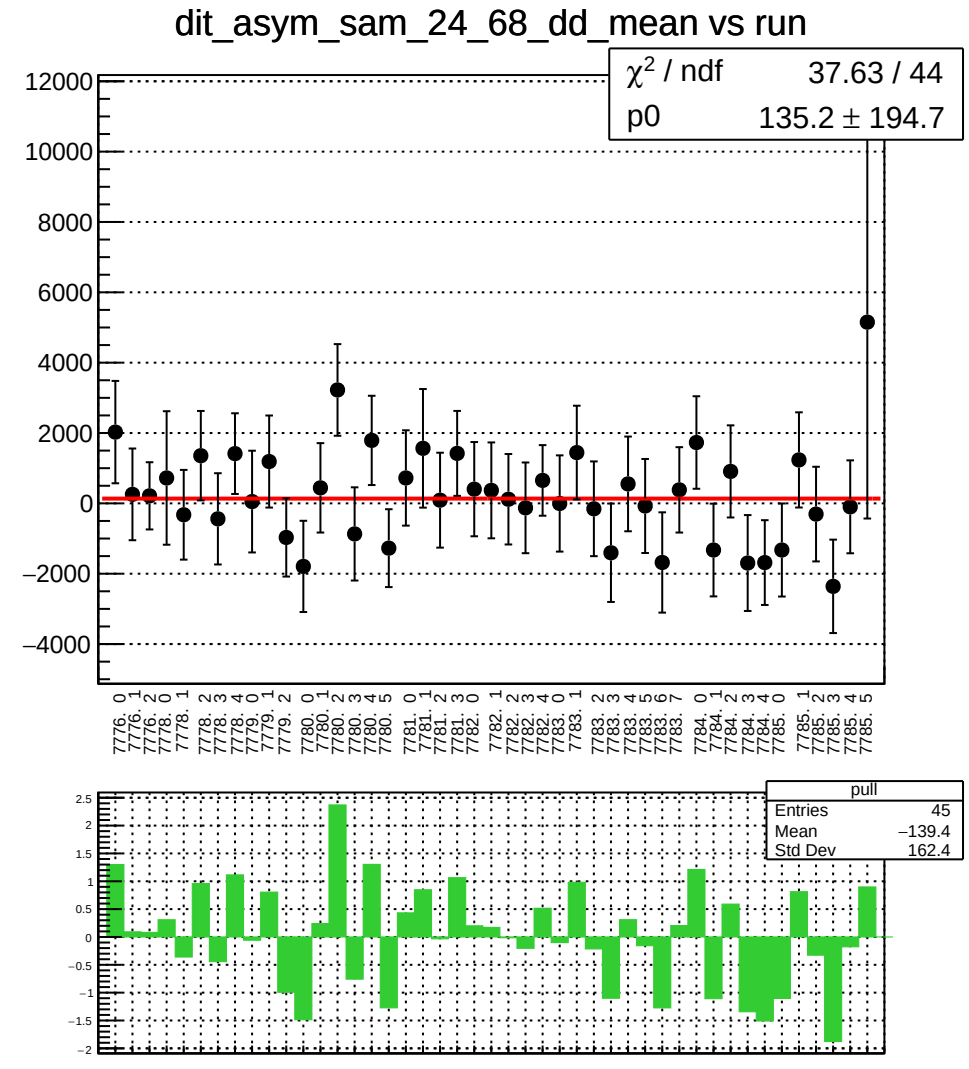

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 39.84 / 44
p0 −939.9 ± 1640
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.26
Std Dev 27.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01191
Std Dev 0.9408
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

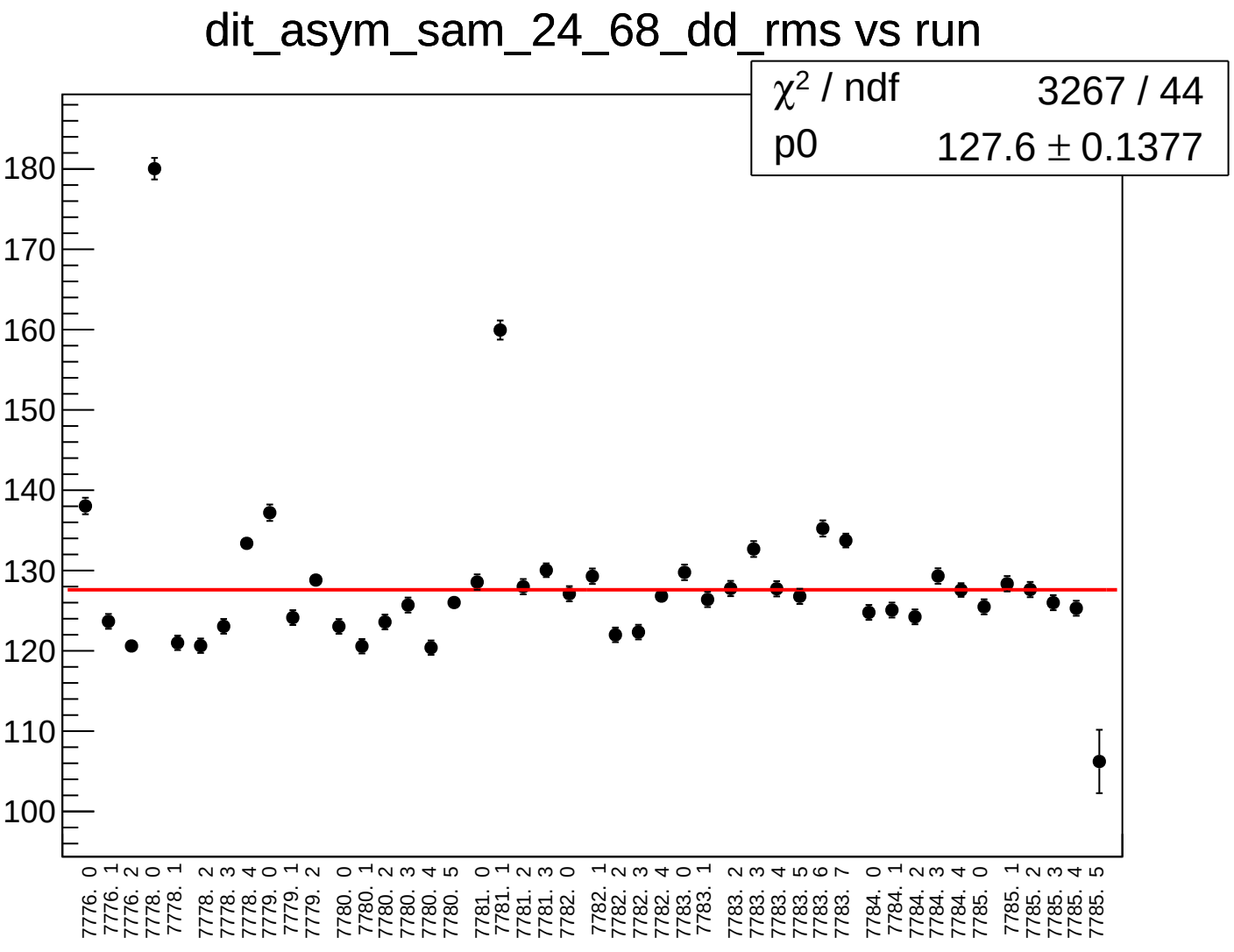

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1375 / 44
p0 1076 ± 1.159
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

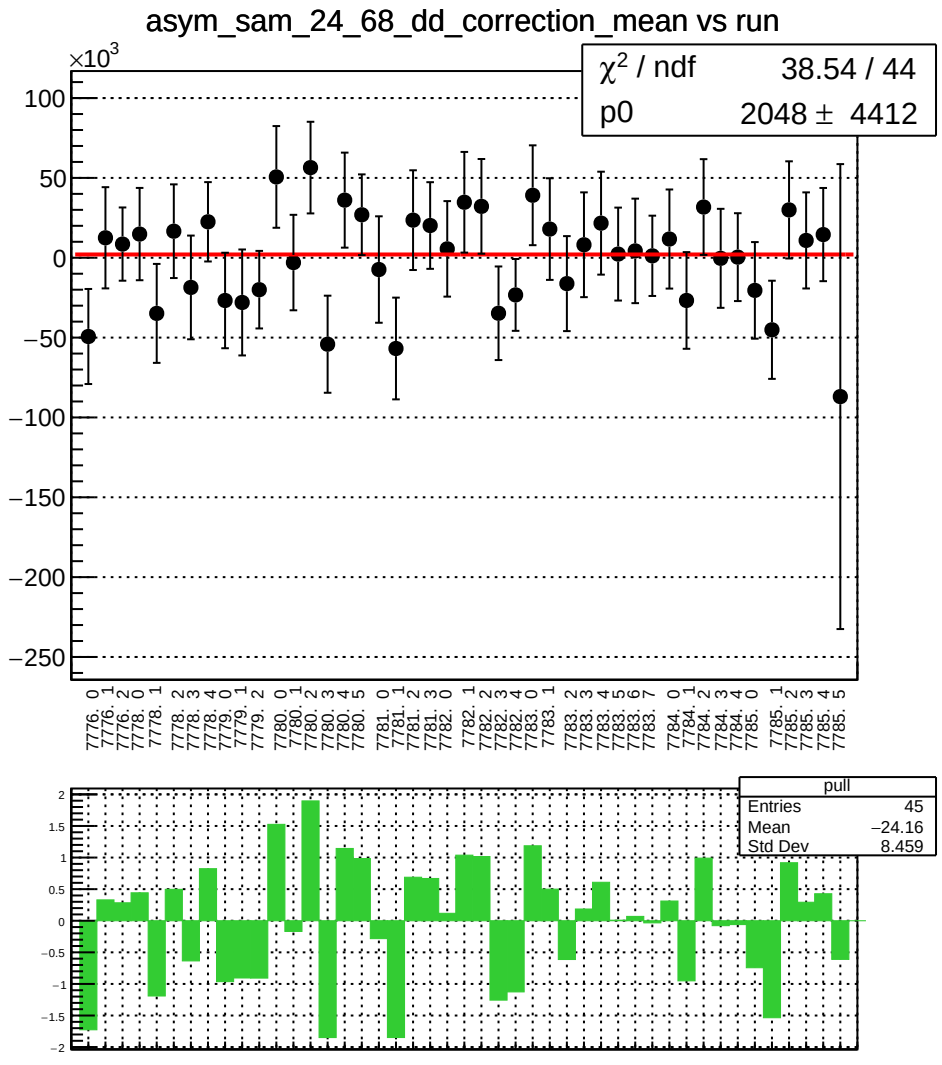

asym_sam_15_37_dd_mean vs run
×10^3
χ² / ndf 39.93 / 44
p0 1061 ± 1652
pull
Entries 45
Mean −17.62
Std Dev 3.27

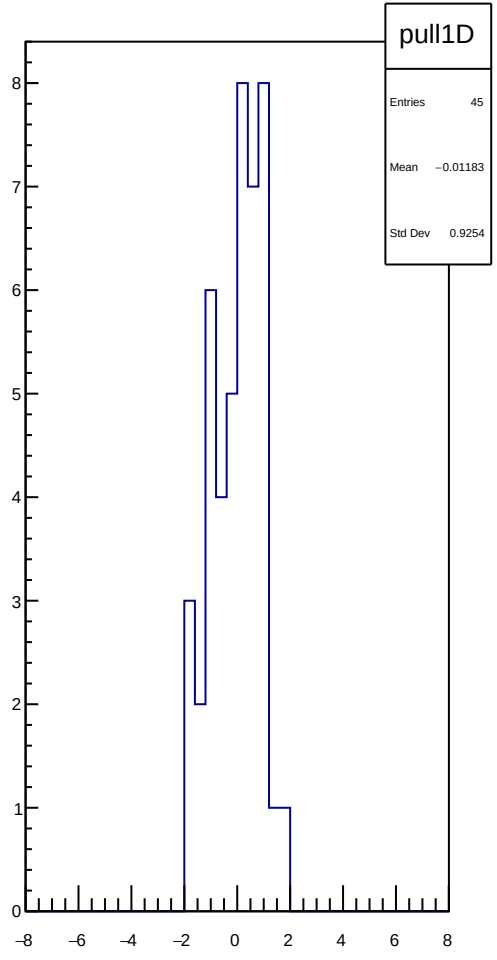

pull1D
Entries 45
Mean −0.01542
Std Dev 0.9419

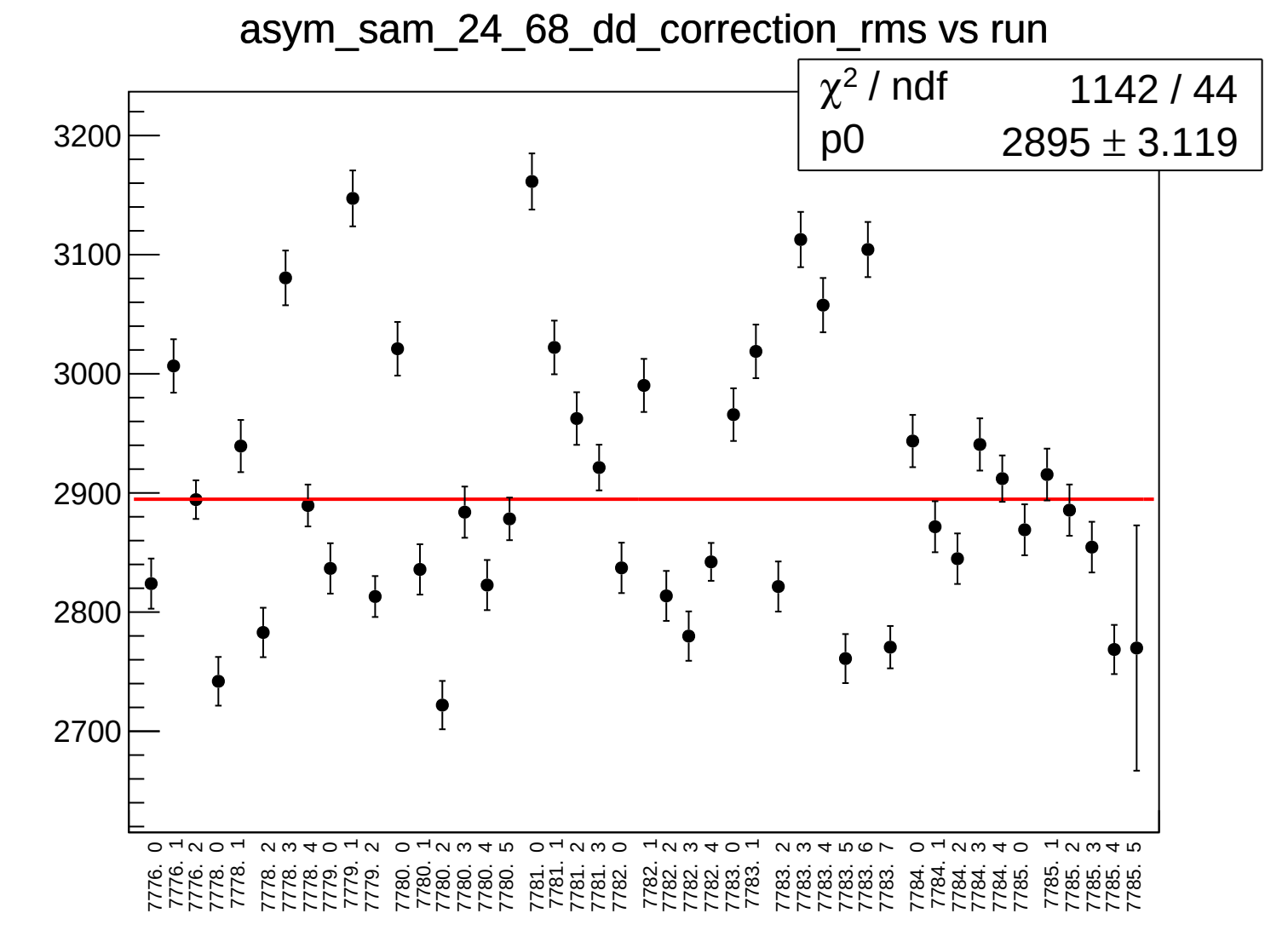

asym_sam_15_37_dd_rms vs run
χ² / ndf 1556 / 44
p0 1084 ± 1.168
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

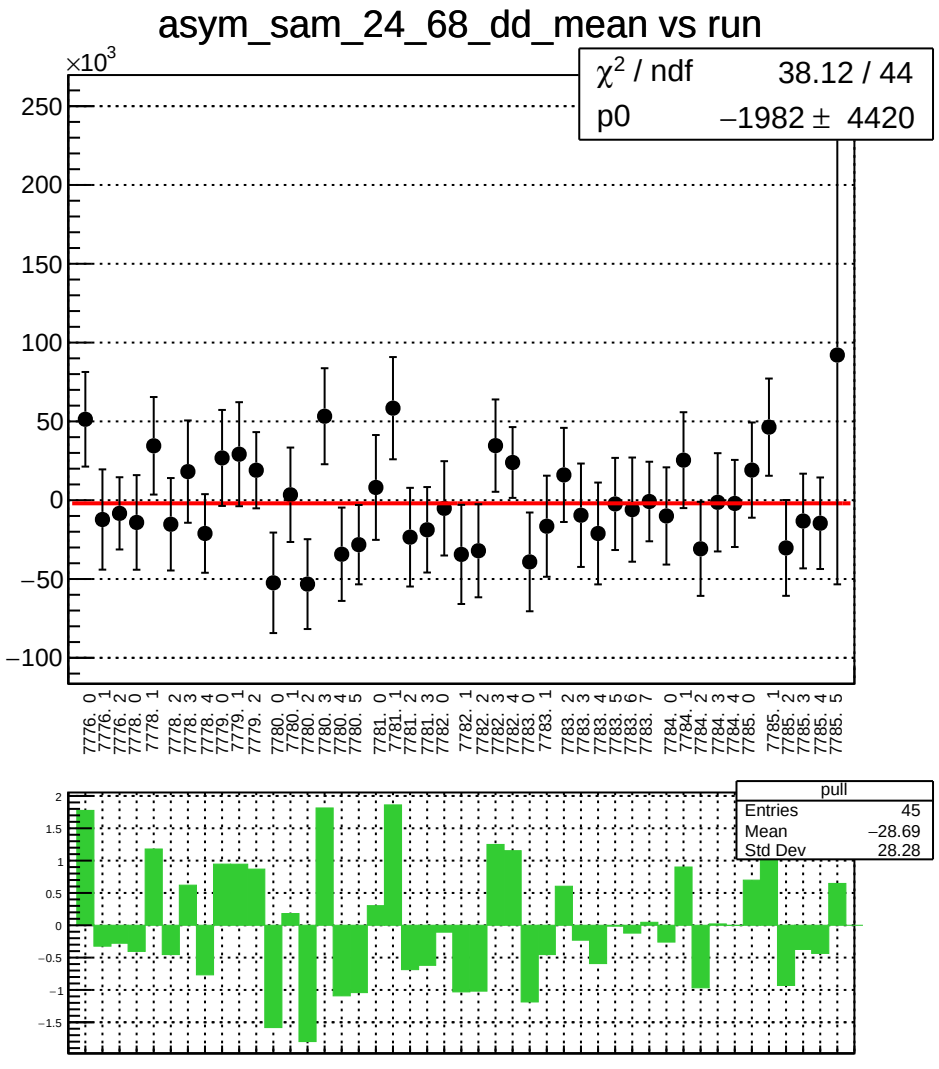

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 37.63 / 44
p0 135.2 ± 194.7
12000
10000
8000
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −139.4
Std Dev 162.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.0201
Std Dev 0.9143
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

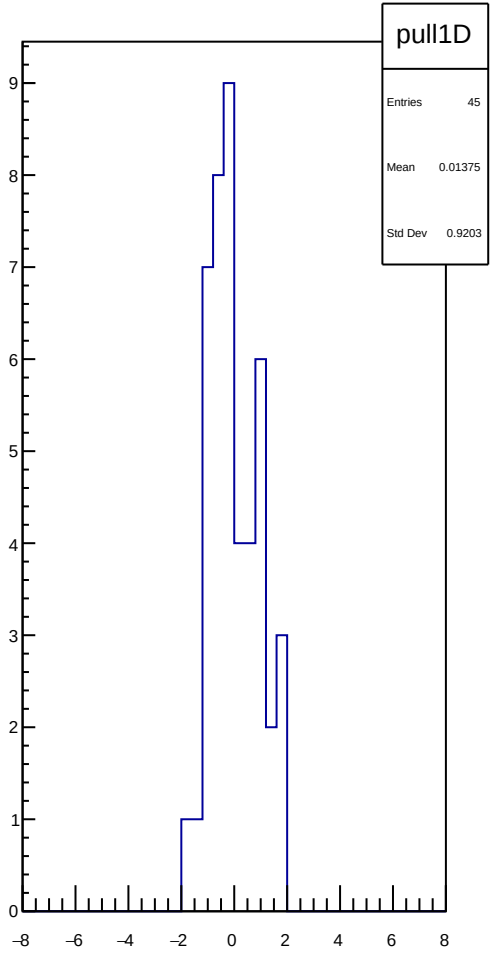

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 3267 / 44
p0 127.6 ± 0.1377
180
170
160
150
140
130
120
110
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

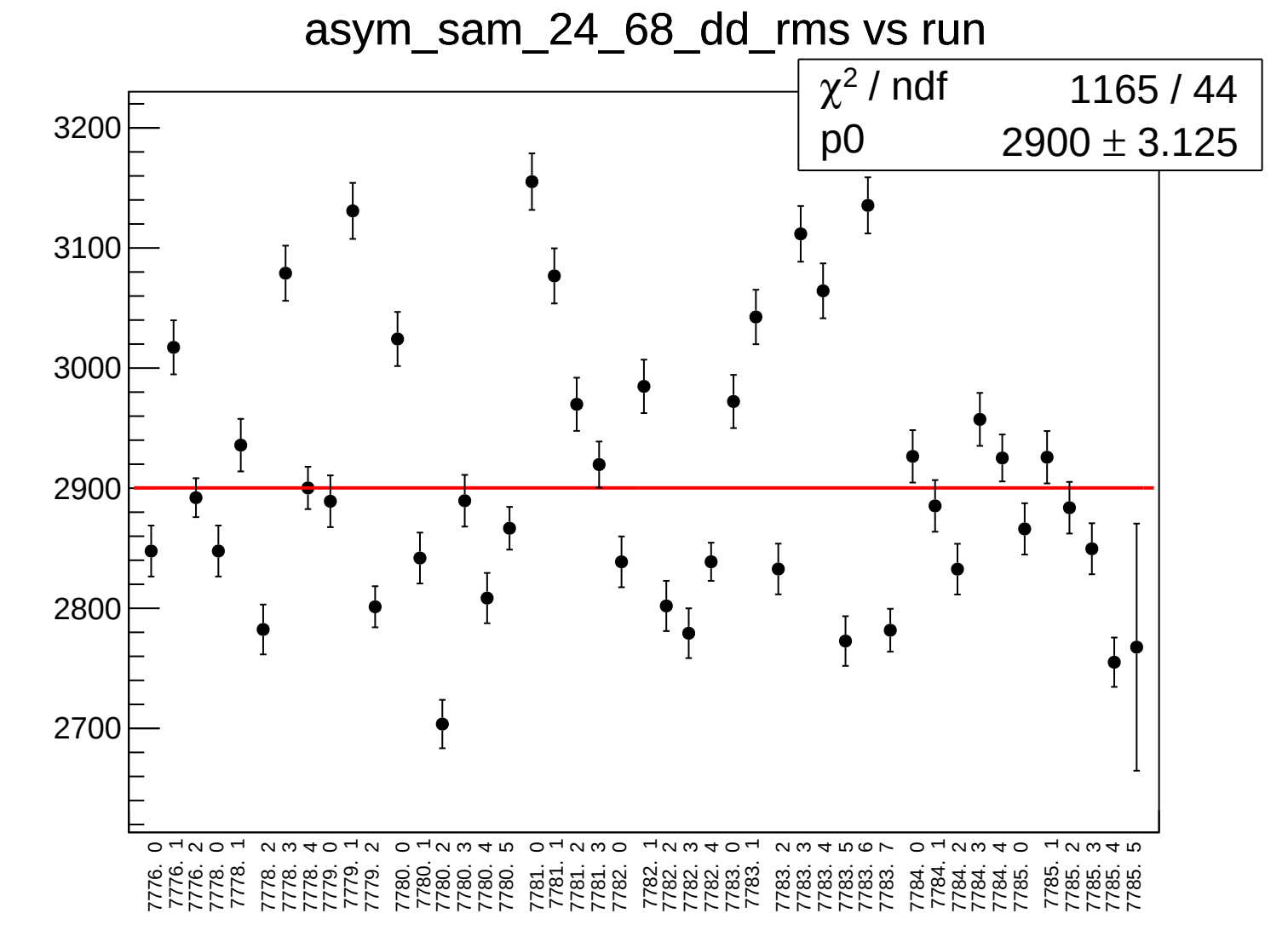

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 38.54 / 44
p0 2048 ± 4412
100
50
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −24.16
Std Dev 8.459
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

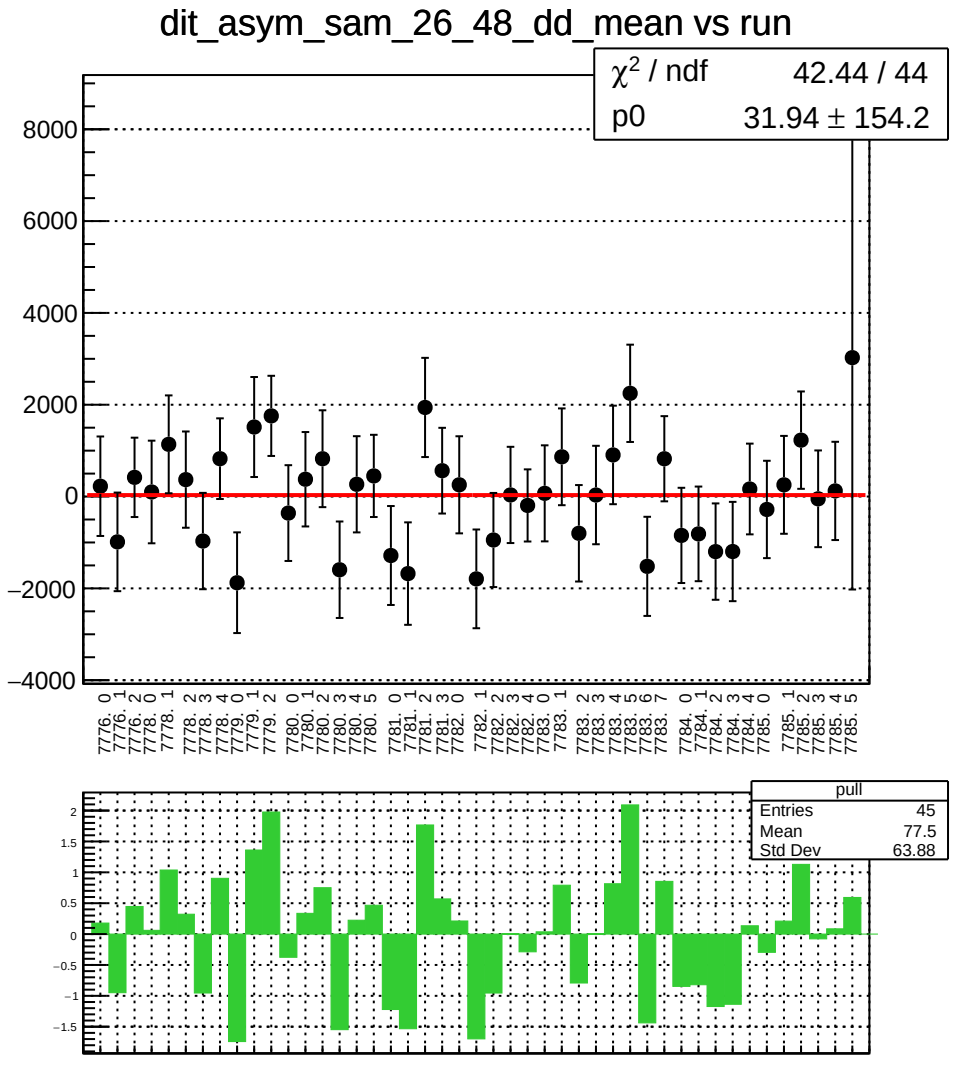

pull1D
Entries 45
Mean −0.01183
Std Dev 0.9254
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

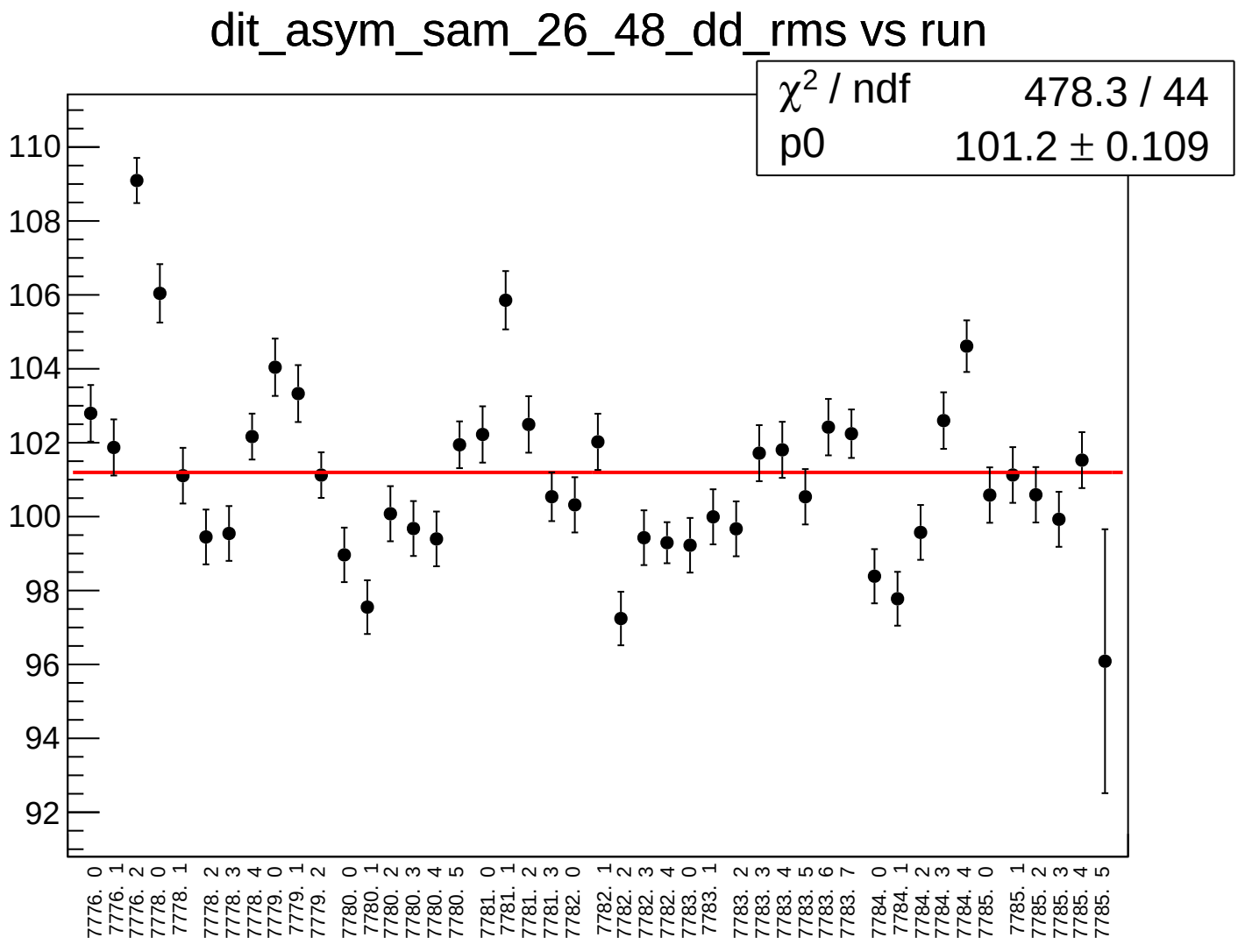

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 1142 / 44
p0 2895 ± 3.119
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

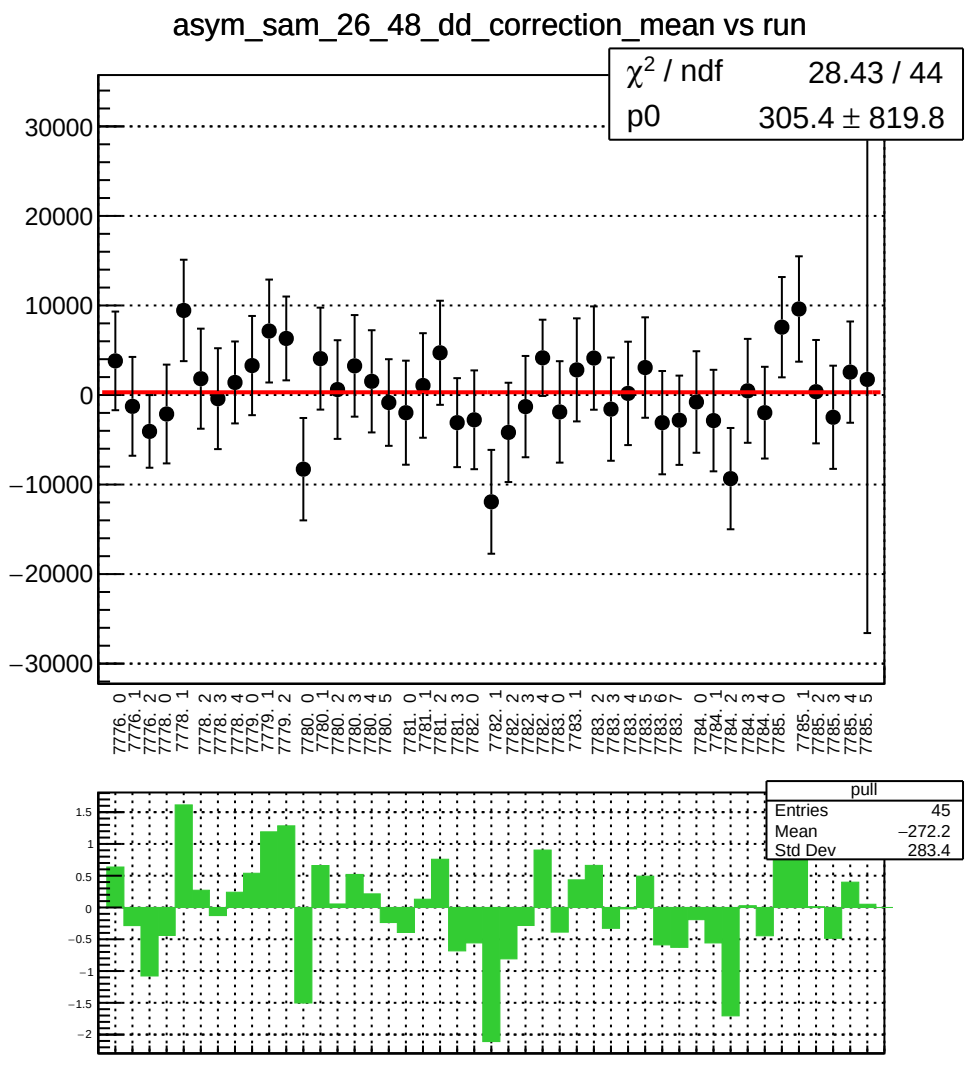

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 38.12 / 44
p0 −1982 ± 4420
250
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −28.69
Std Dev 28.28
2
1.5
1
0.5
0
−0.5
−1
−1.5

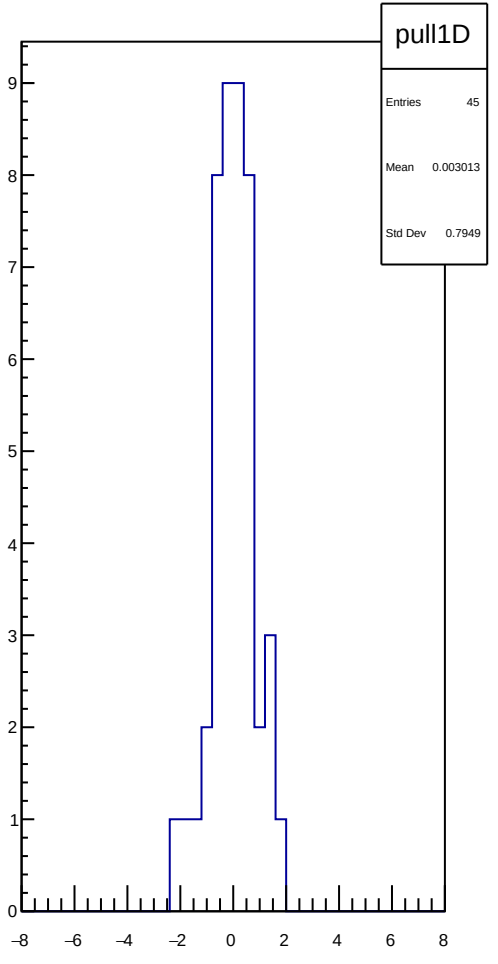

pull1D
Entries 45
Mean 0.01375
Std Dev 0.9203
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

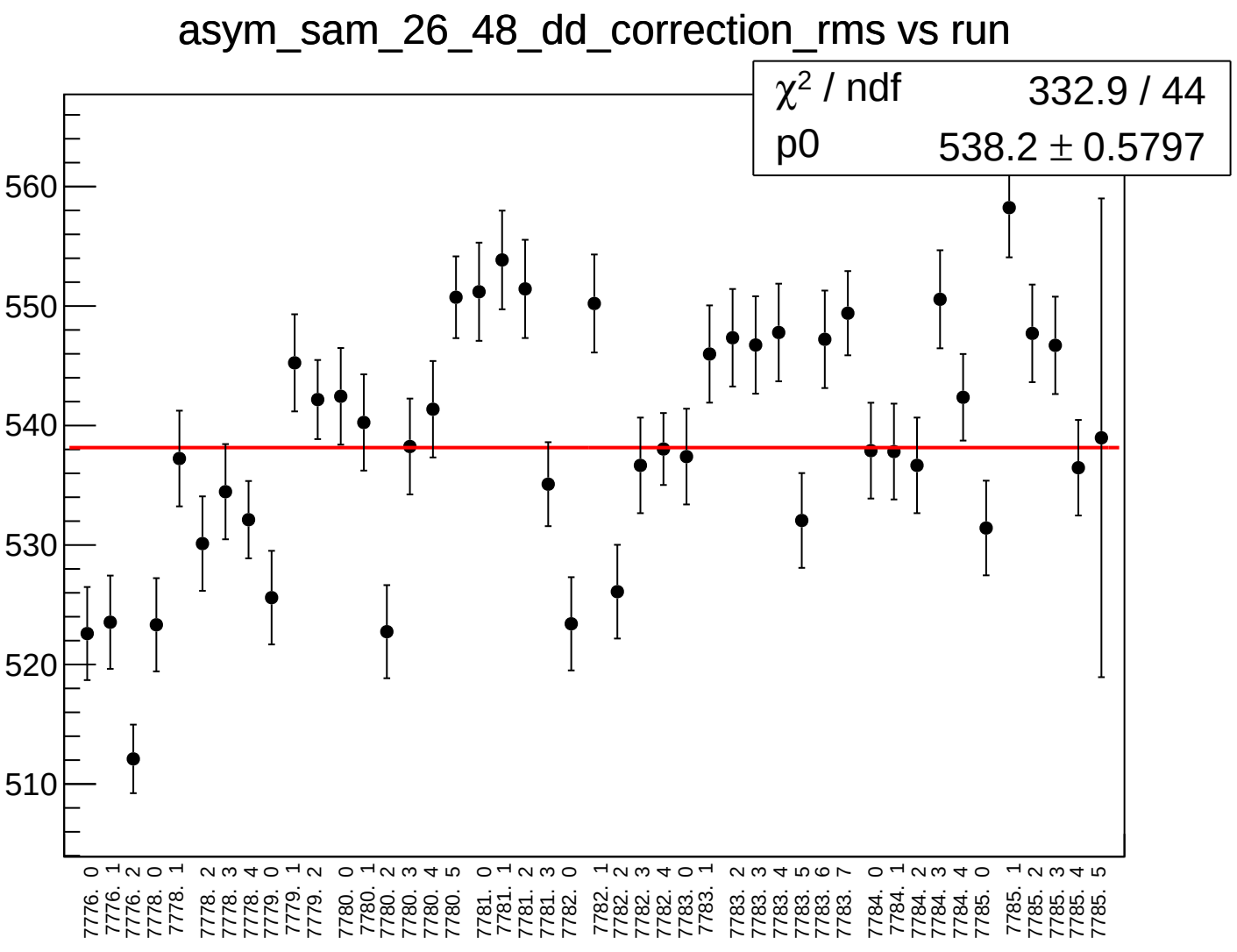

asym_sam_24_68_dd_rms vs run
χ² / ndf 1165 / 44
p0 2900 ± 3.125
3200
3100
3000
2900
2800
2700
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

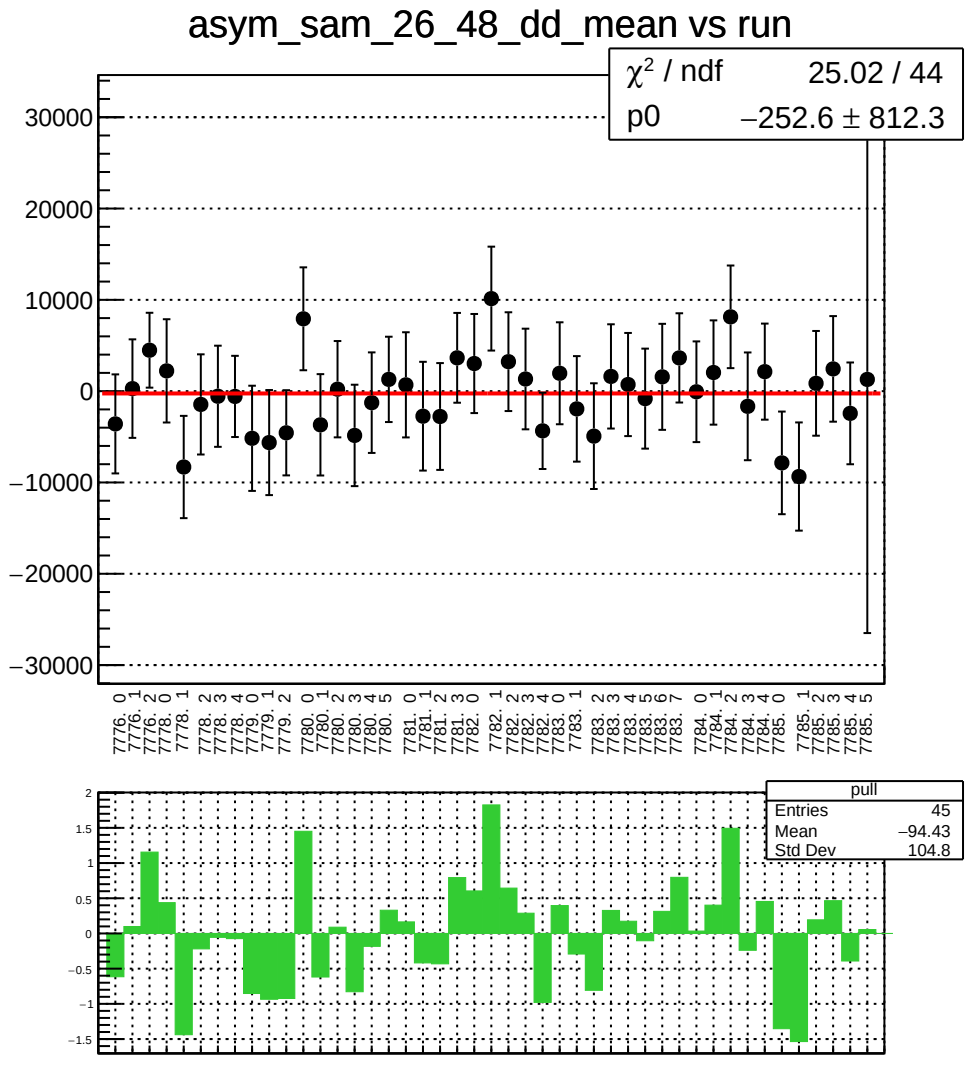

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 42.44 / 44
p0 31.94 ± 154.2
8000
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 77.5
Std Dev 63.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01078
Std Dev 0.9711
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

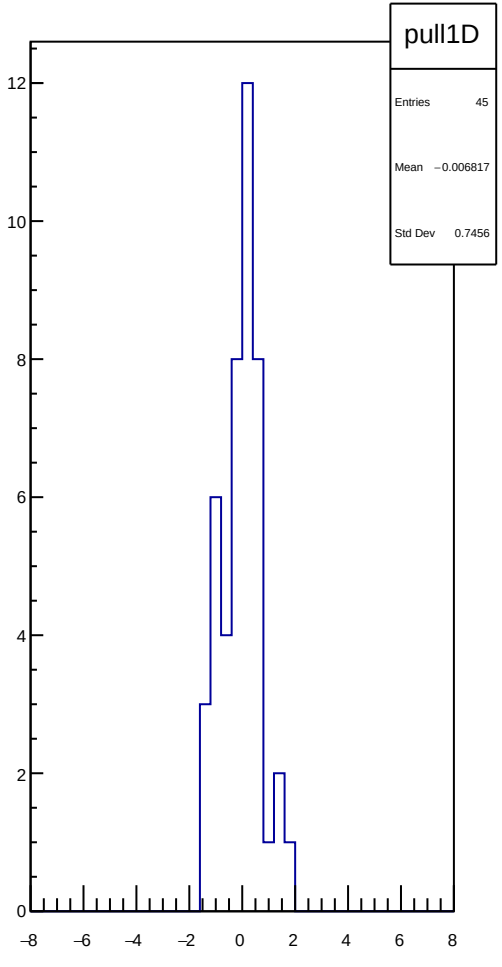

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 478.3 / 44
p0 101.2 ± 0.109
110
108
106
104
102
100
98
96
94
92
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

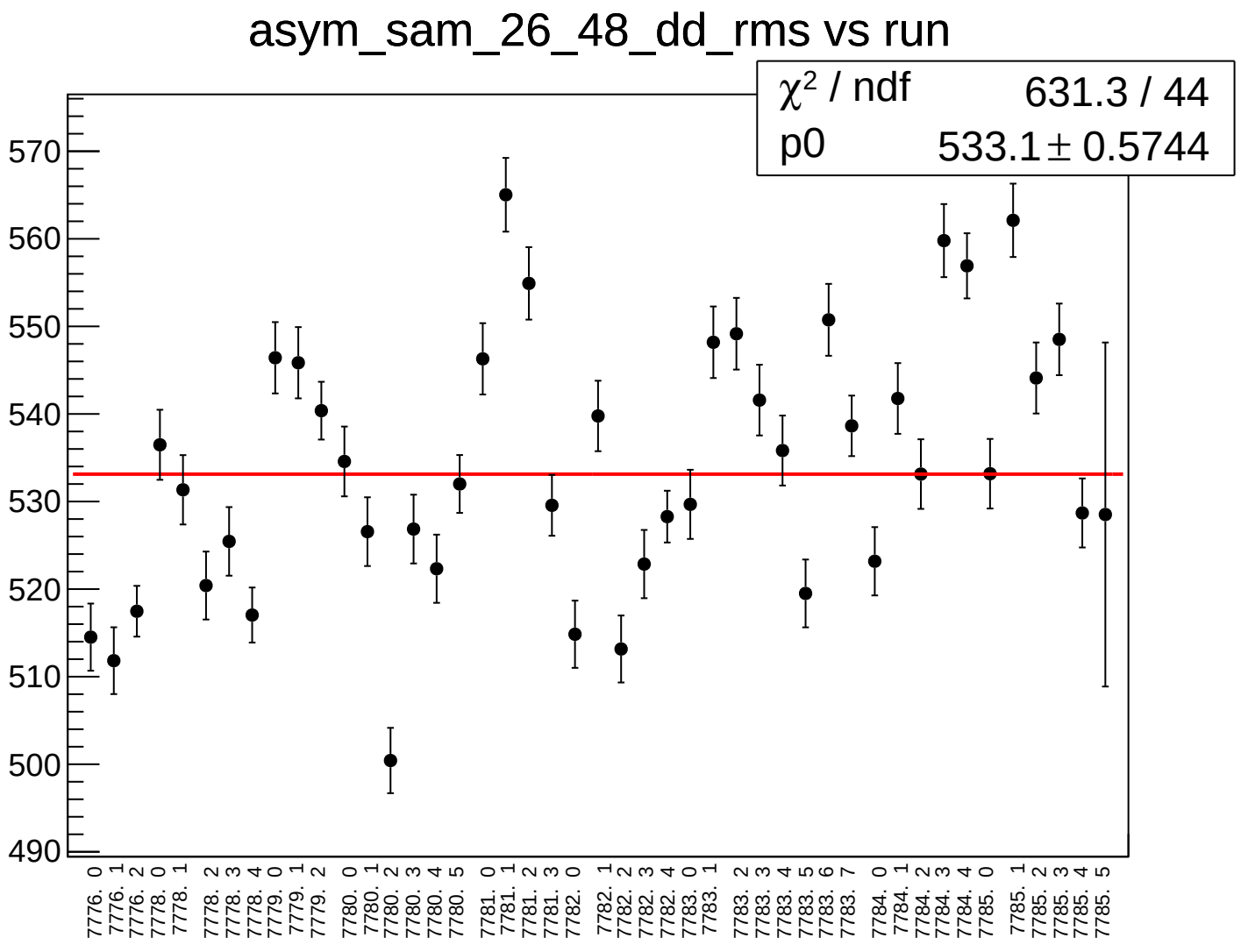

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 28.43 / 44
p0 305.4 ± 819.8
30000
20000
10000
0
−10000
−20000
−30000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −272.2
Std Dev 283.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

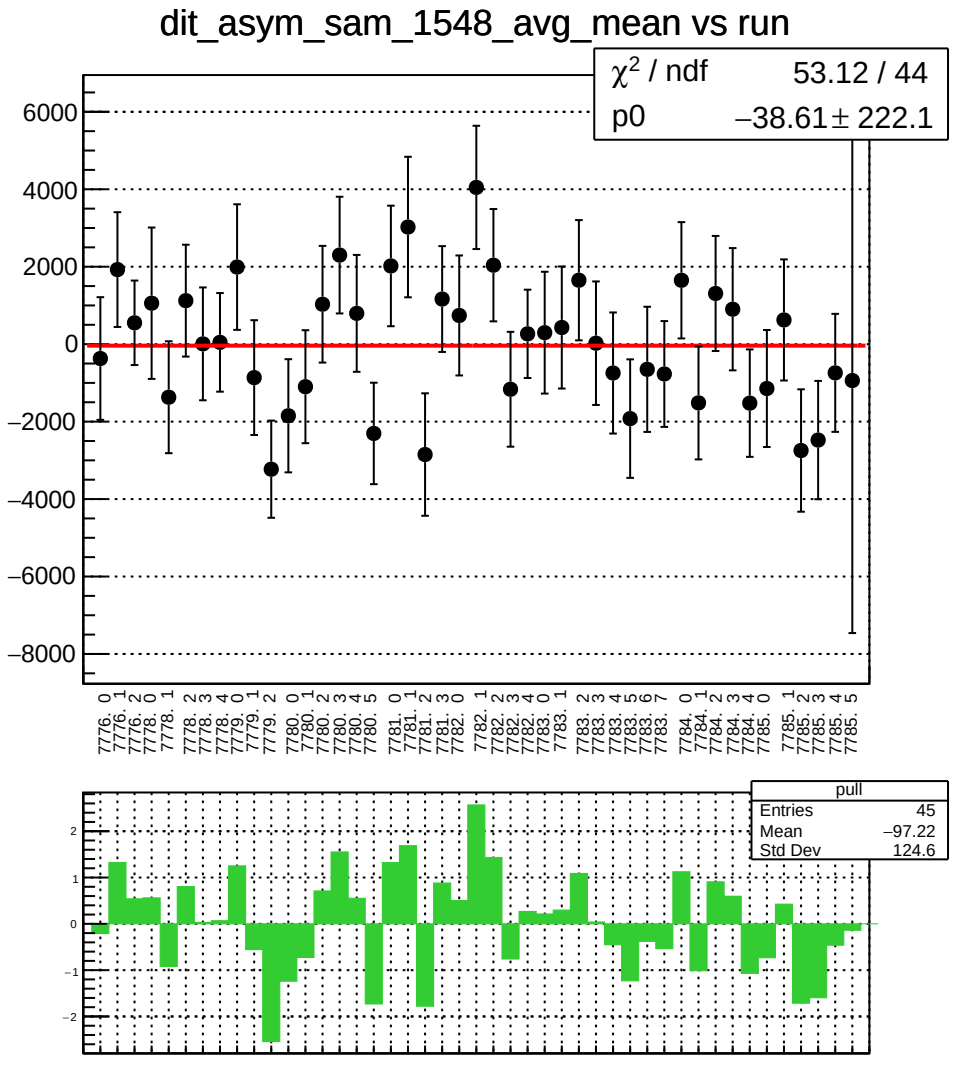

pull1D
Entries 45
Mean 0.003013
Std Dev 0.7949
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

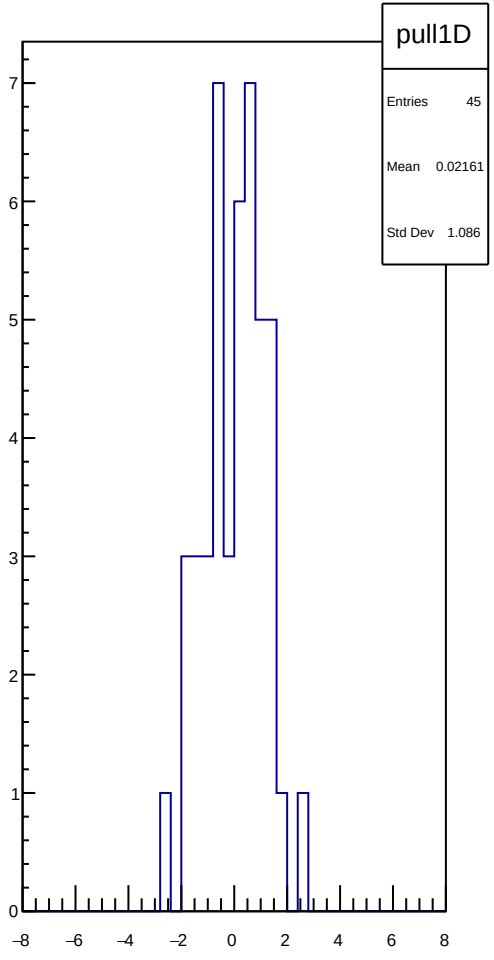

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 332.9 / 44
p0 538.2 ± 0.5797
560
550
540
530
520
510
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

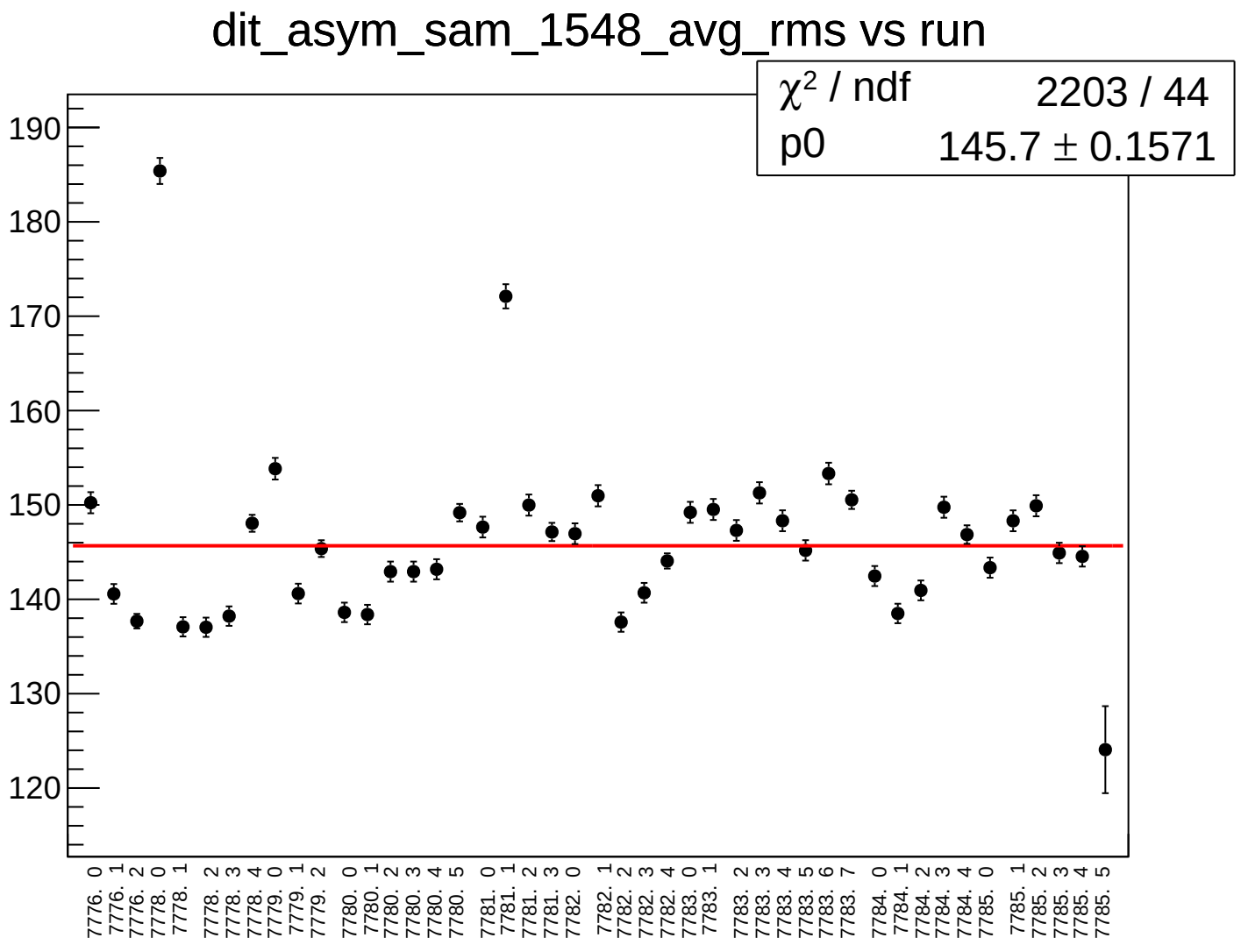

asym_sam_26_48_dd_mean vs run
χ² / ndf 25.02 / 44
p0 −252.6 ± 812.3
pull
Entries 45
Mean −94.43
Std Dev 104.8

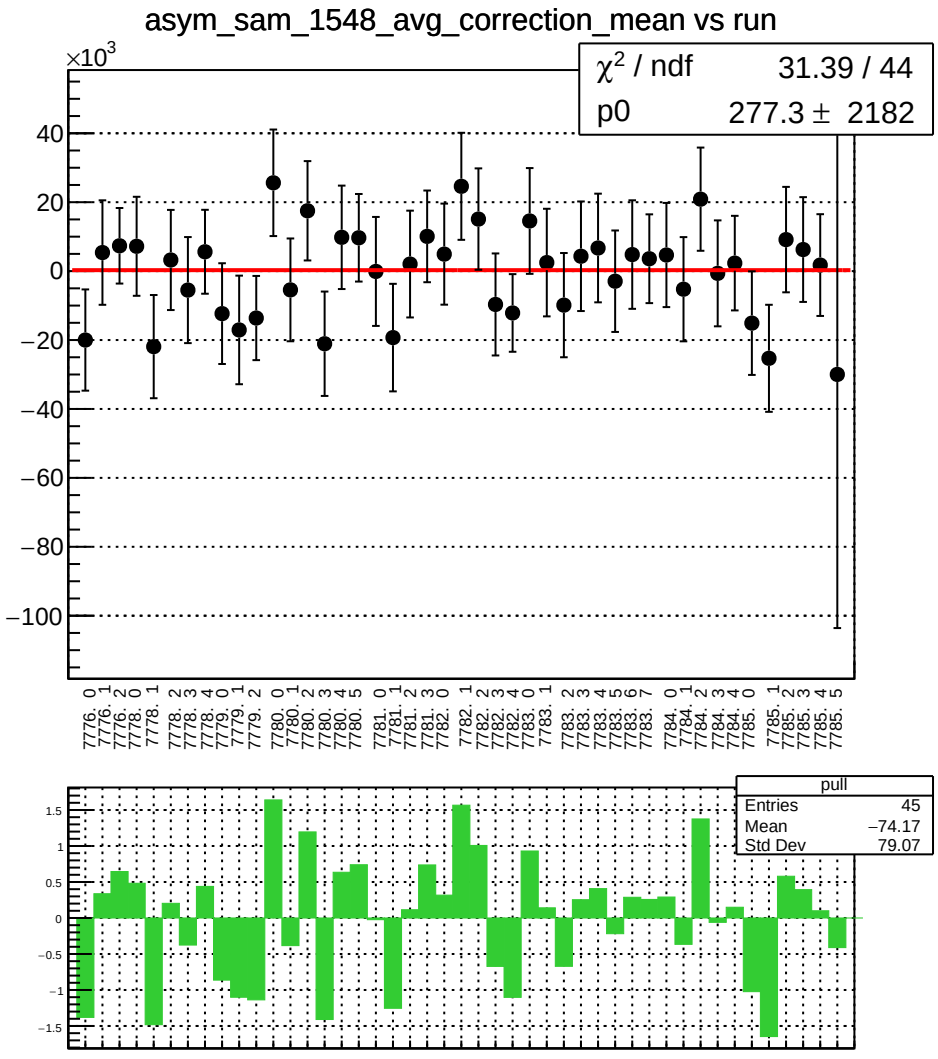

pull1D
Entries 45
Mean −0.006817
Std Dev 0.7456

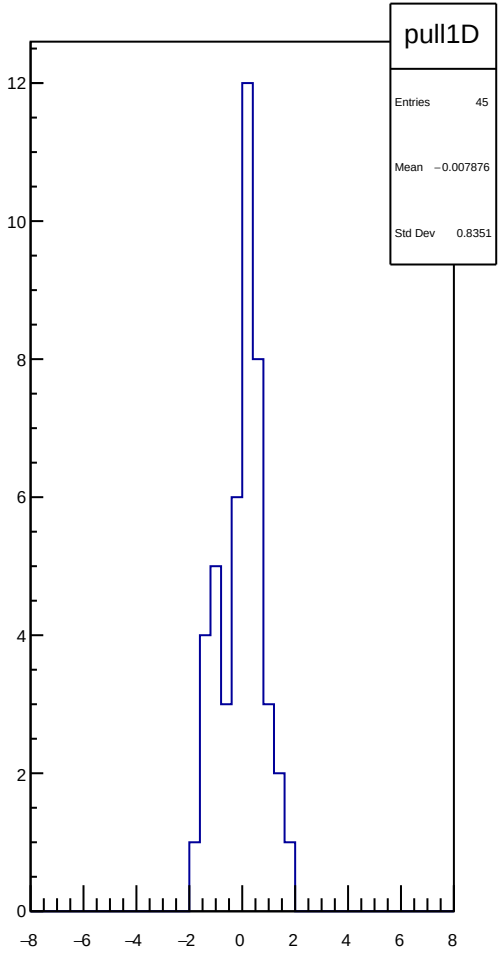

asym_sam_26_48_dd_rms vs run
χ² / ndf 631.3 / 44
p0 533.1 ± 0.5744
570
560
550
540
530
520
510
500
490
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

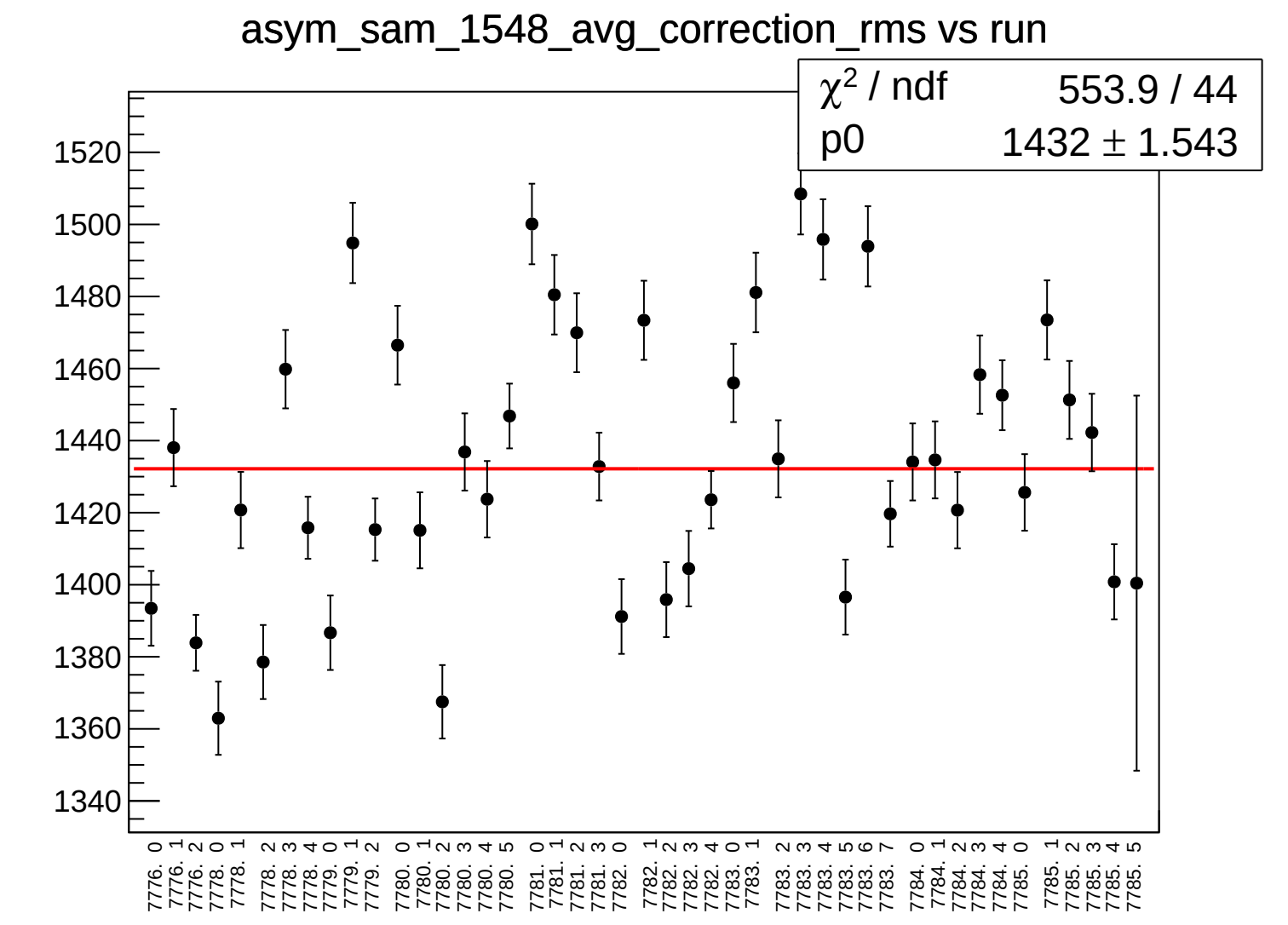

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 53.12 / 44
p0 −38.61 ± 222.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −97.22
Std Dev 124.6
2
1
0
−1
−2

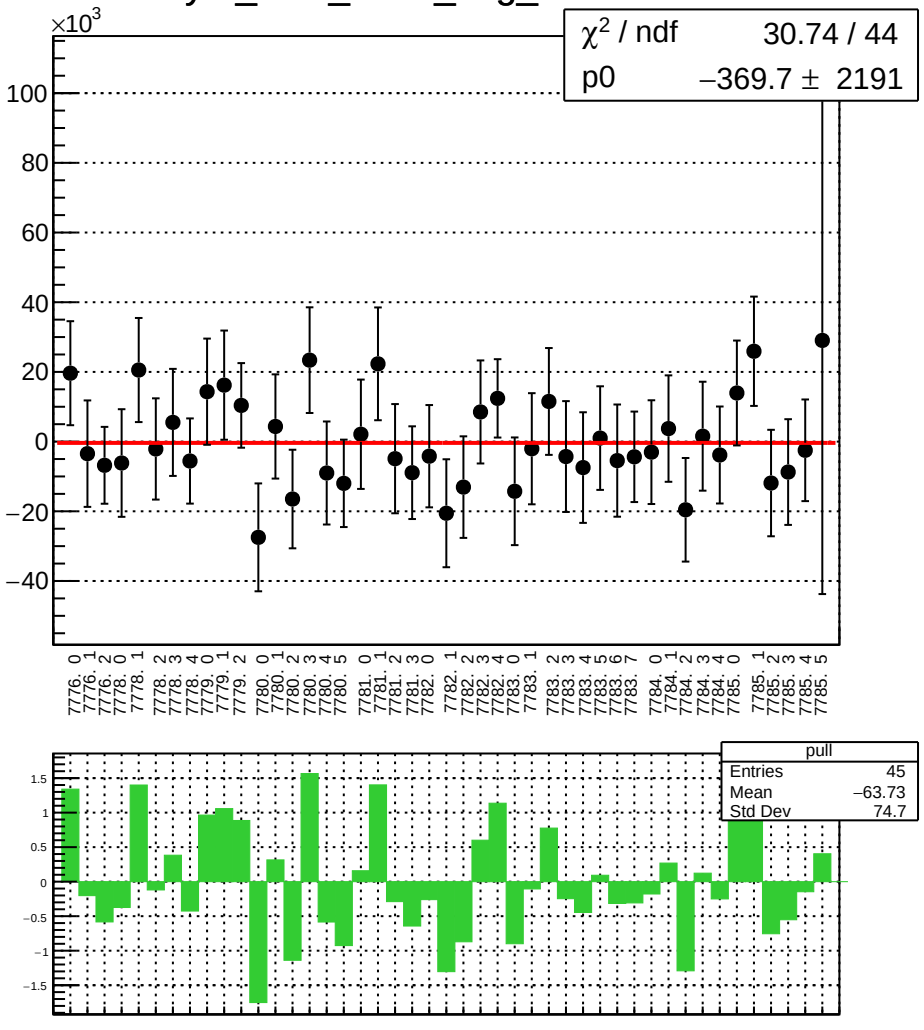

pull1D
Entries 45
Mean 0.02161
Std Dev 1.086
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

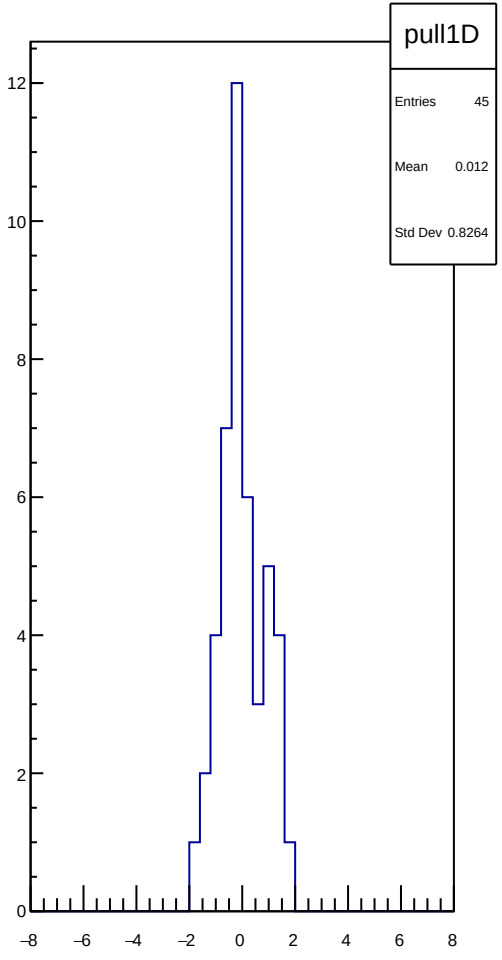

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2203 / 44
p0 145.7 ± 0.1571
190
180
170
160
150
140
130
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

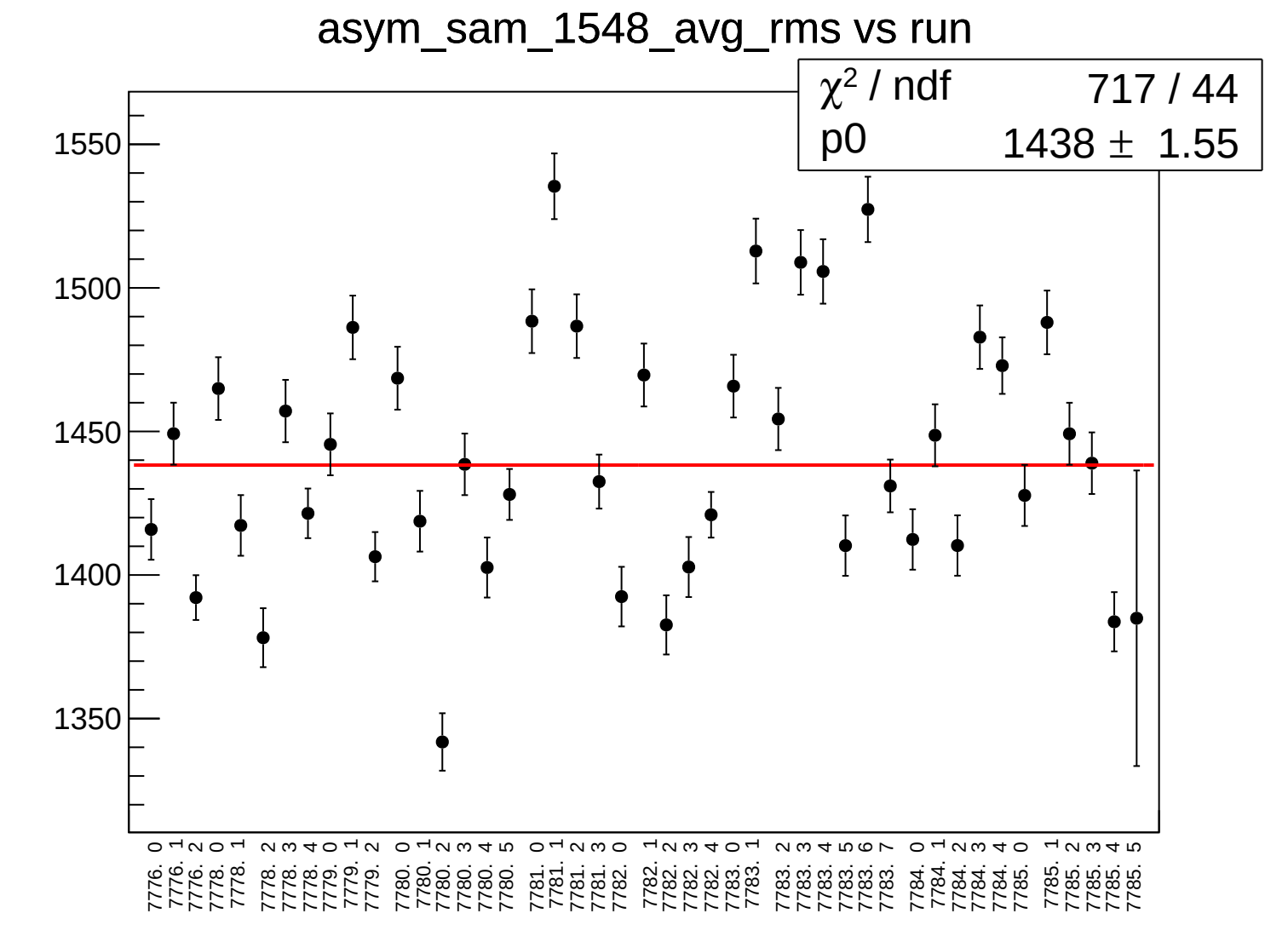

asym_sam_1548_avg_correction_mean vs run
×10^3
χ^2 / ndf 31.39 / 44
p0 277.3 ± 2182
40
20
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −74.17
Std Dev 79.07
1.5
1
0.5
0
−0.5
−1
−1.5

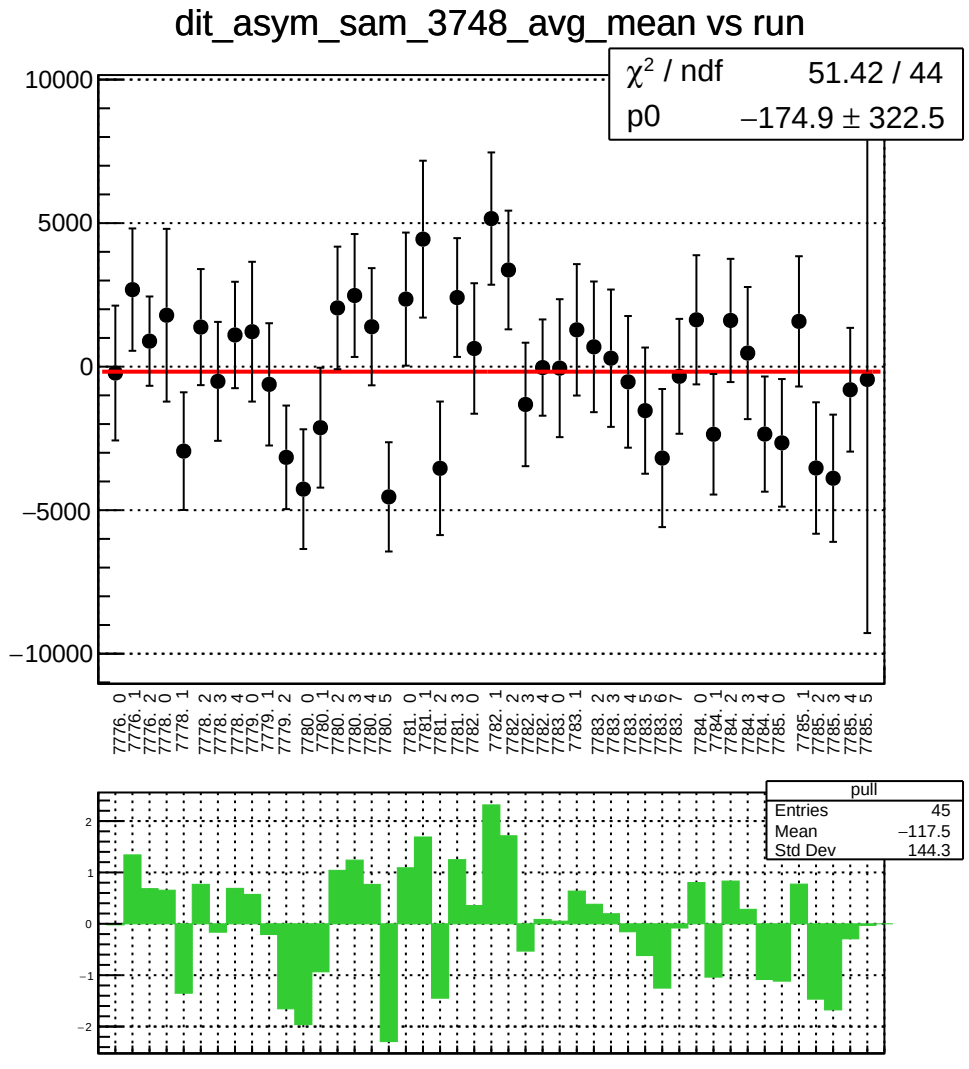

pull1D
Entries 45
Mean −0.007876
Std Dev 0.8351
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

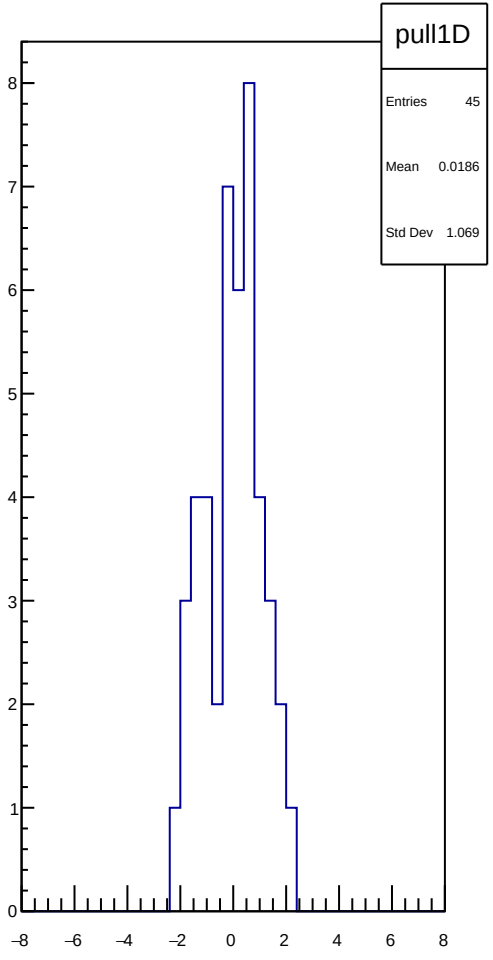

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 553.9 / 44
p0 1432 ± 1.543
1520
1500
1480
1460
1440
1420
1400
1380
1360
1340
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

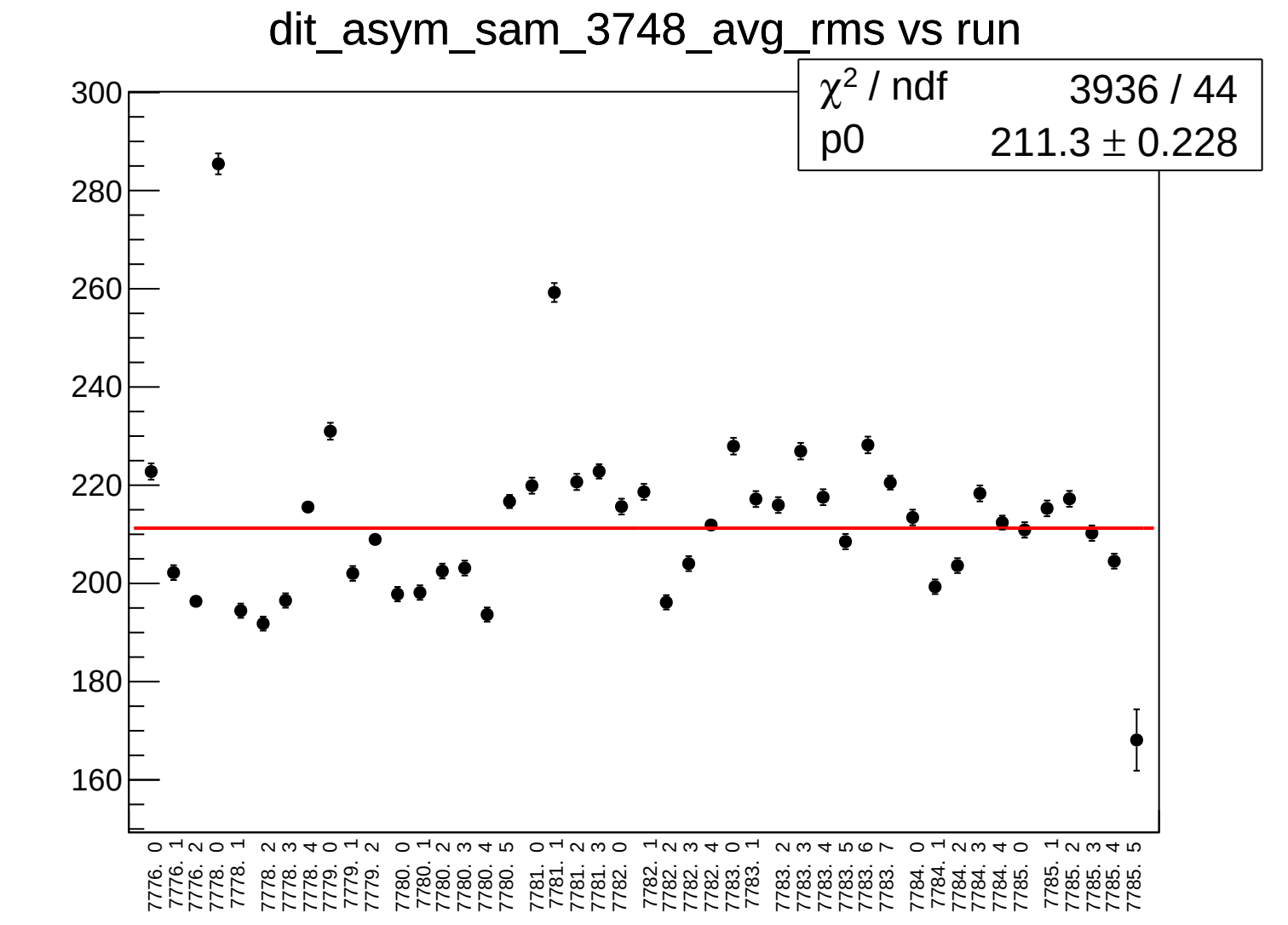

asym_sam_1548_avg_mean vs run
×10^3
χ² / ndf 30.74 / 44
p0 −369.7 ± 2191
100
80
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −63.73
Std Dev 74.7
1.5
1
0.5
0
−0.5
−1
−1.5

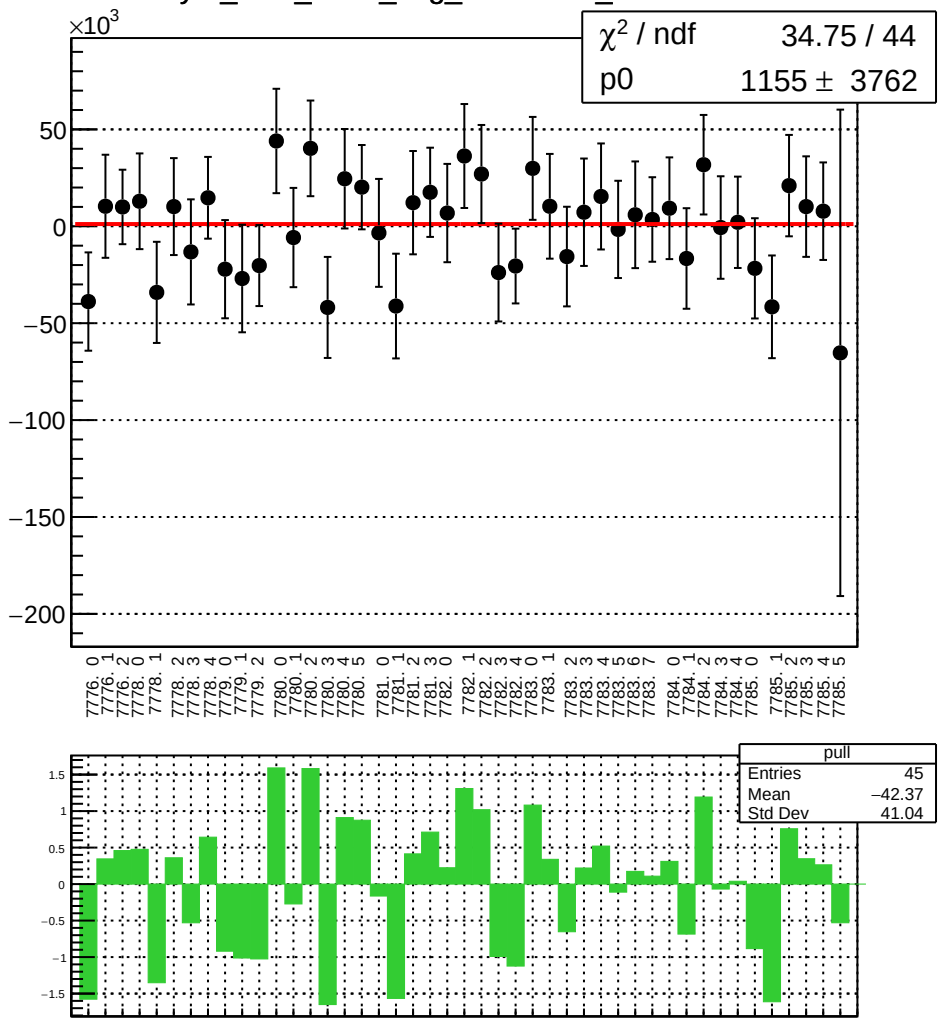

pull1D
Entries 45
Mean 0.012
Std Dev 0.8264
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

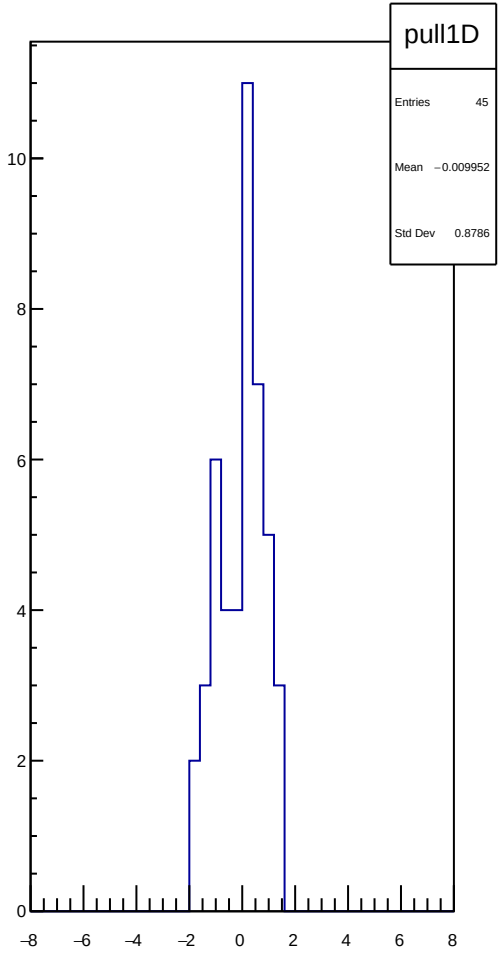

asym_sam_1548_avg_rms vs run
χ² / ndf 717 / 44
p0 1438 ± 1.55
1550
1500
1450
1400
1350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

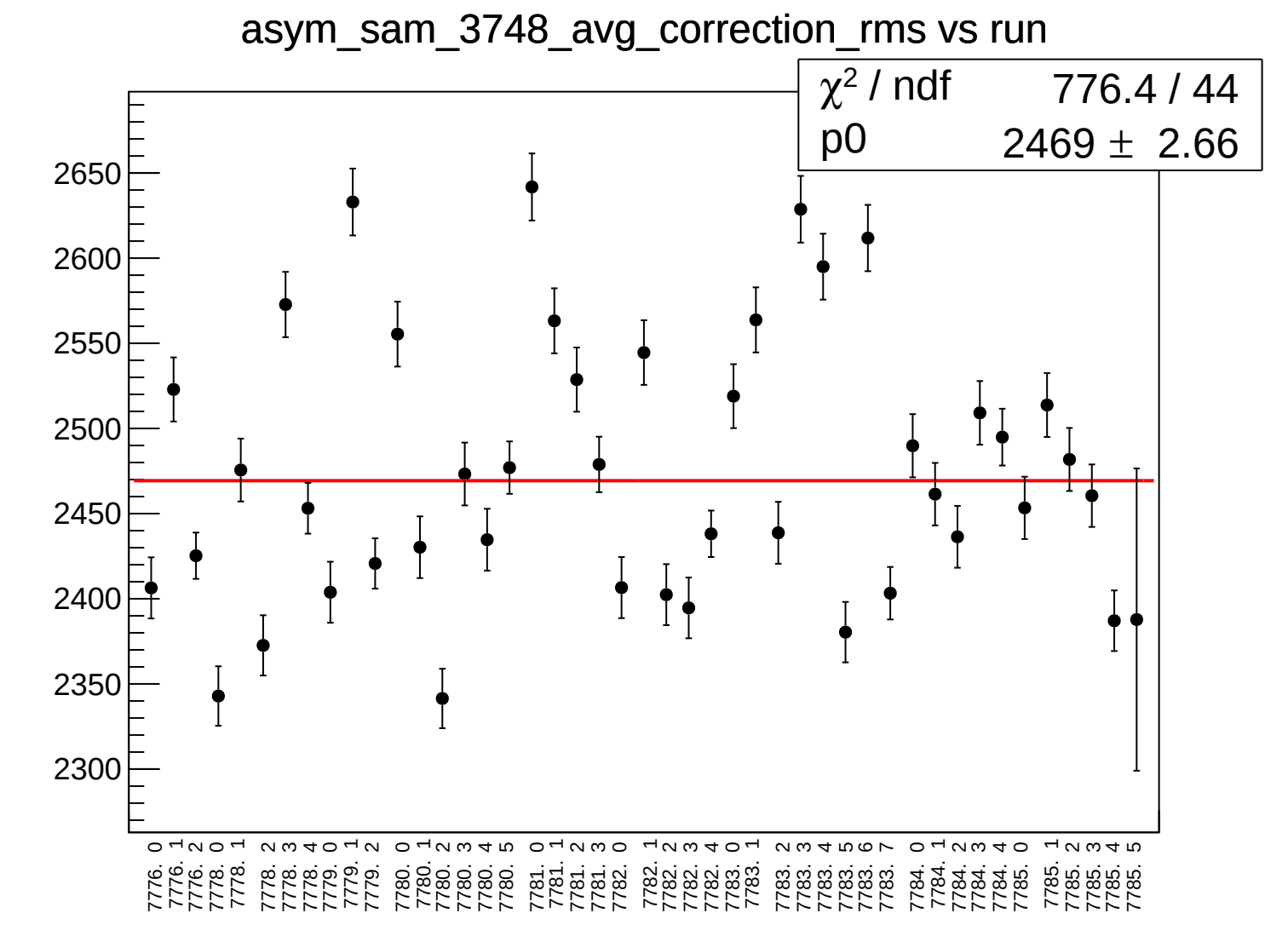

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 51.42 / 44
p0 −174.9 ± 322.5
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −117.5
Std Dev 144.3
2
1
0
−1
−2

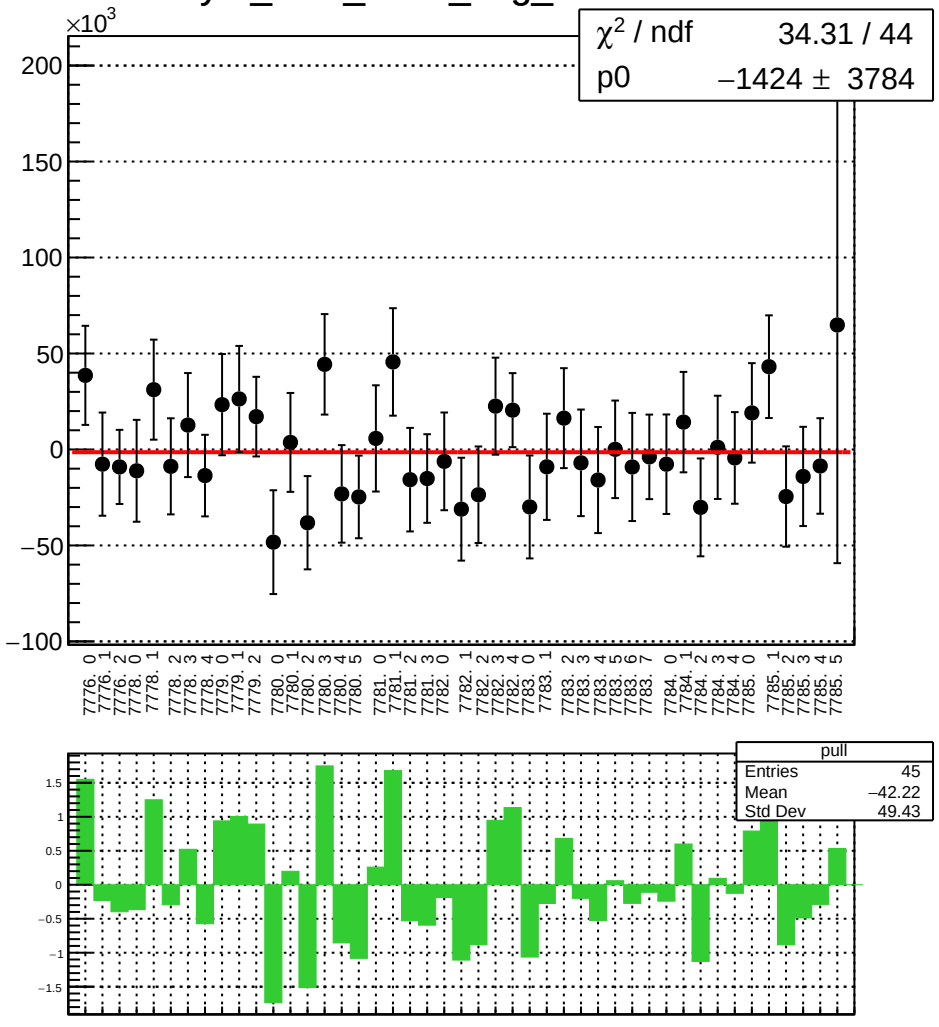

pull1D
Entries 45
Mean 0.0186
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

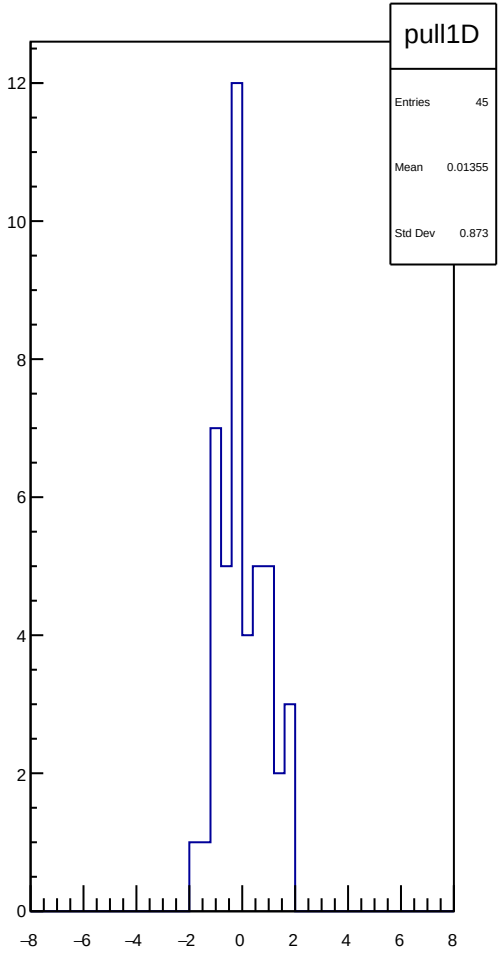

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3936 / 44
p0 211.3 ± 0.228
300
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

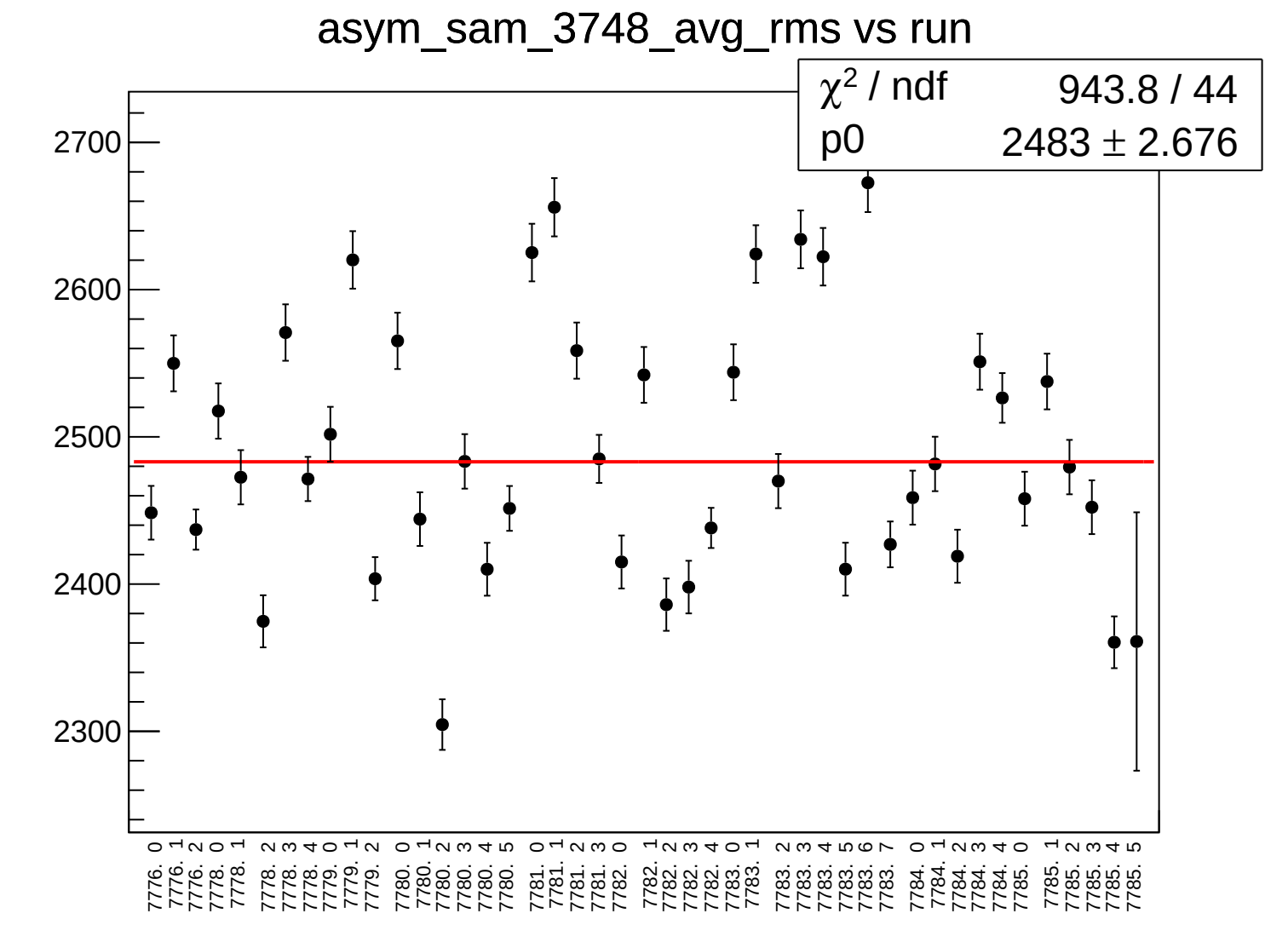

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 34.75 / 44
p0 1155 ± 3762
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −42.37
Std Dev 41.04
1.5
1
0.5
0
−0.5
−1
−1.5

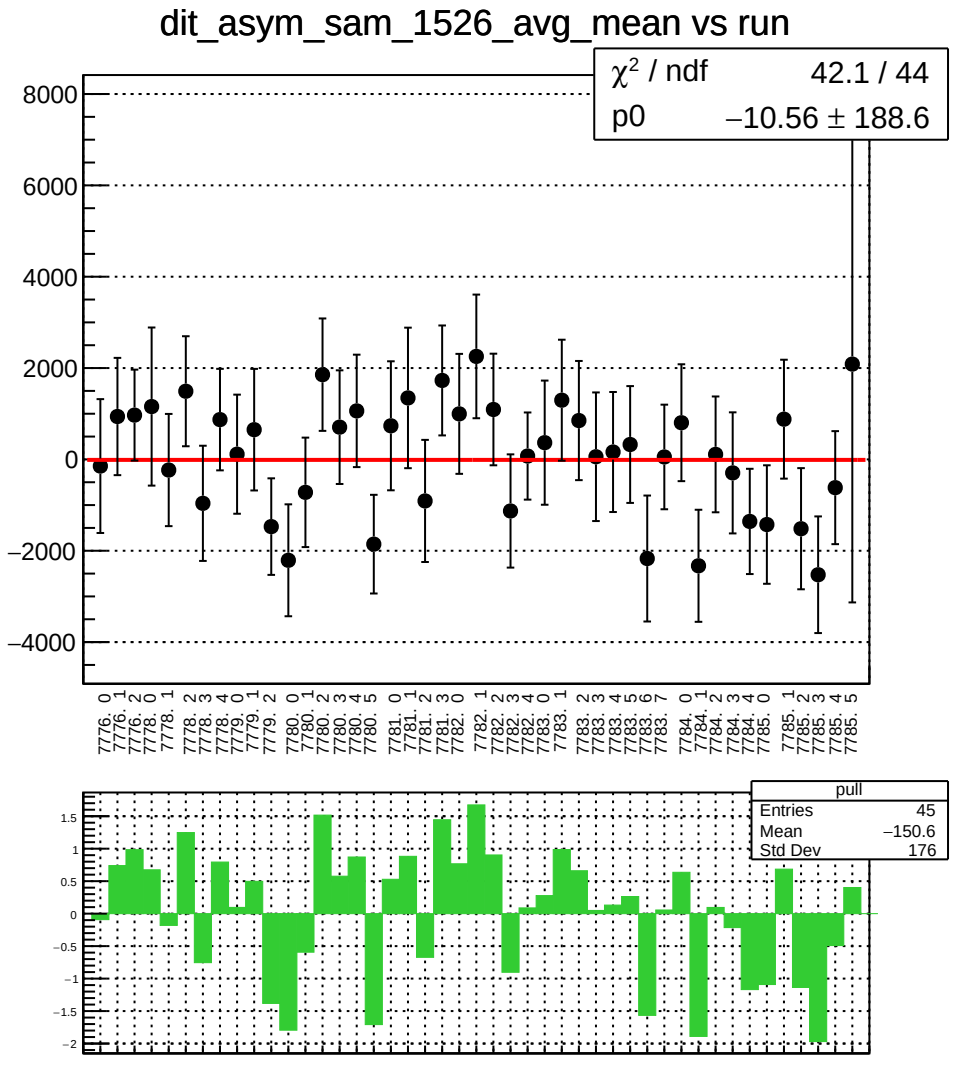

pull1D
Entries 45
Mean −0.009952
Std Dev 0.8786
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

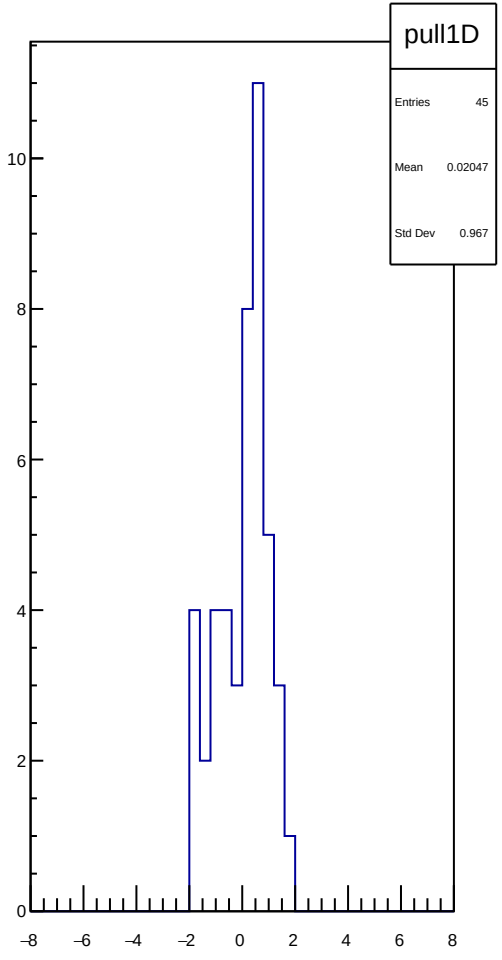

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 776.4 / 44
p0 2469 ± 2.66
2650
2600
2550
2500
2450
2400
2350
2300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

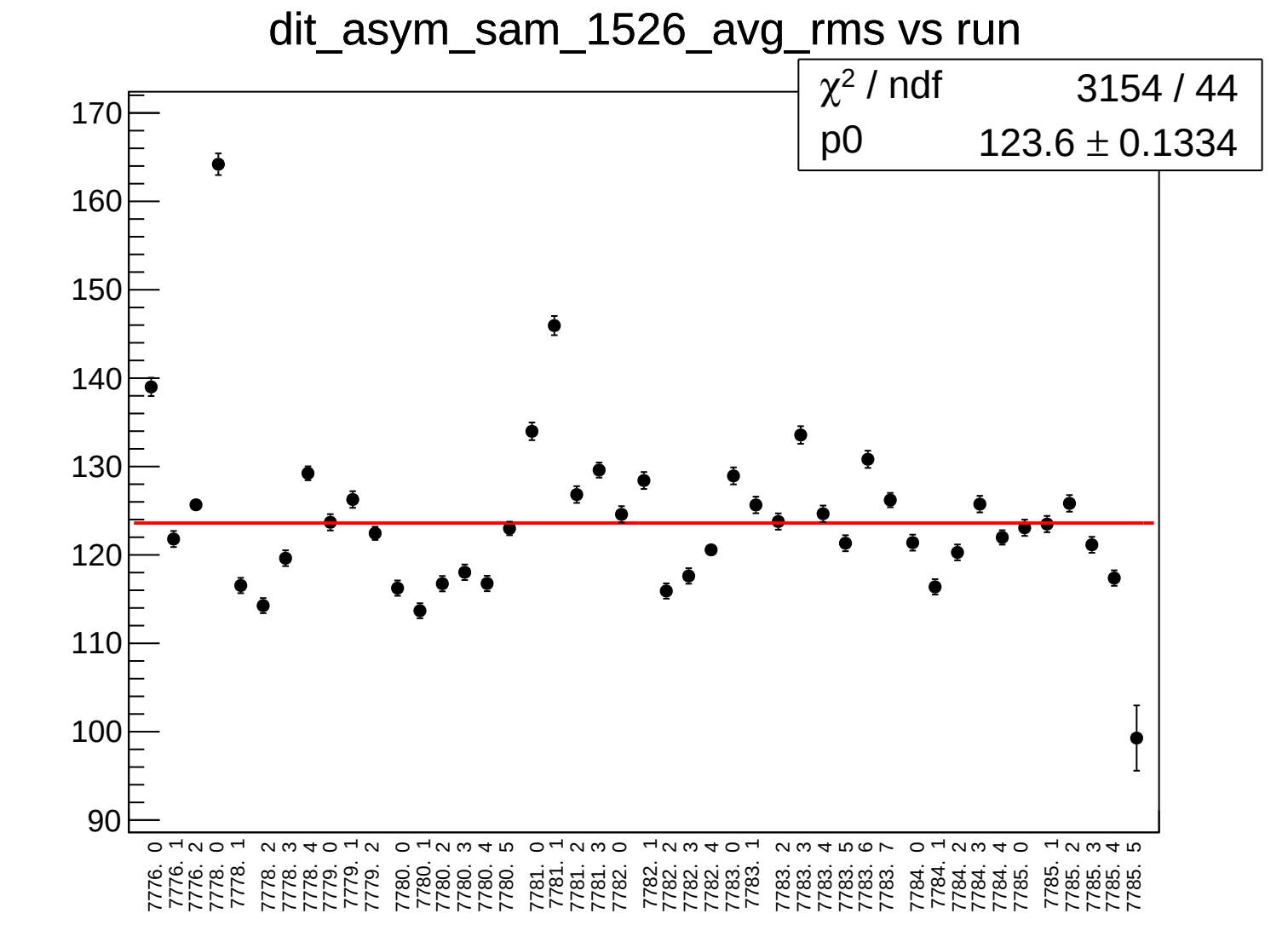

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 34.31 / 44
p0 −1424 ± 3784
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −42.22
Std Dev 49.43
1.5
1
0.5
0
−0.5
−1
−1.5

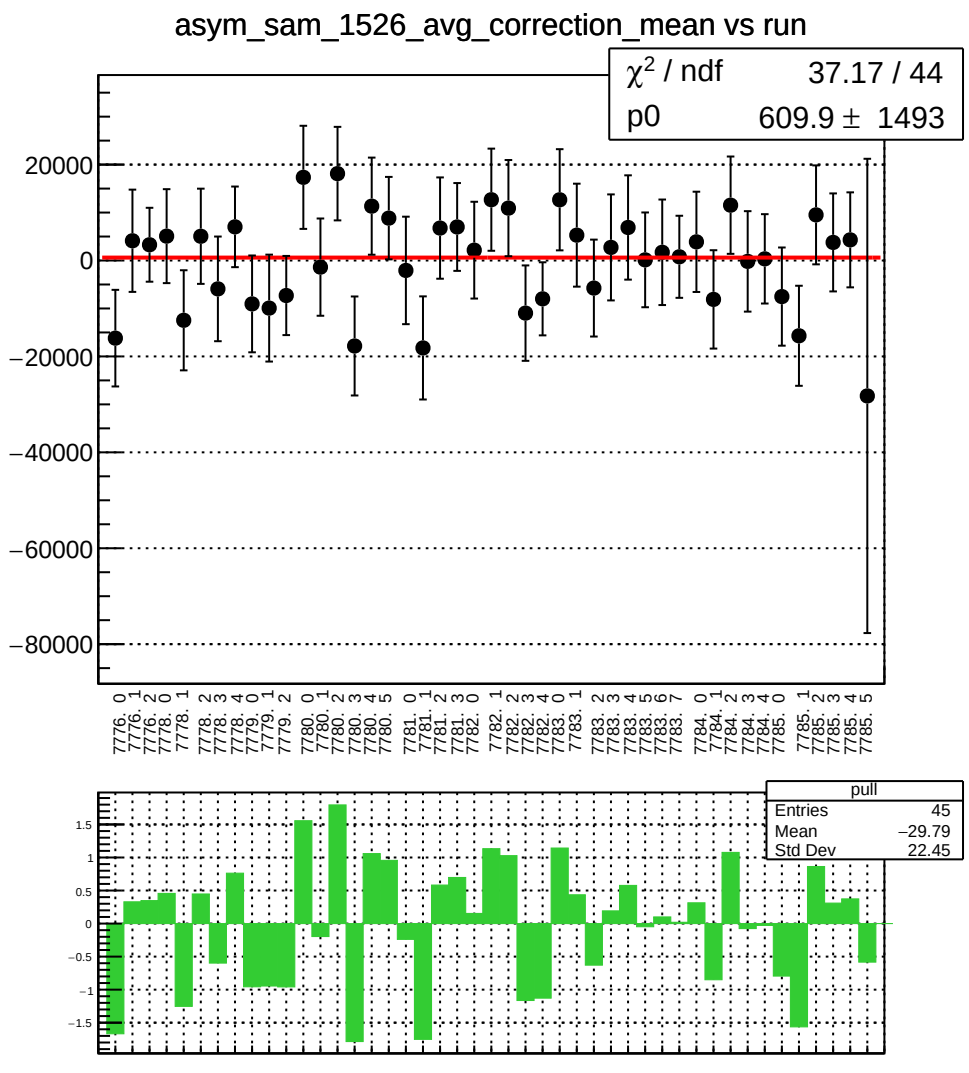

pull1D
Entries 45
Mean 0.01355
Std Dev 0.873
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

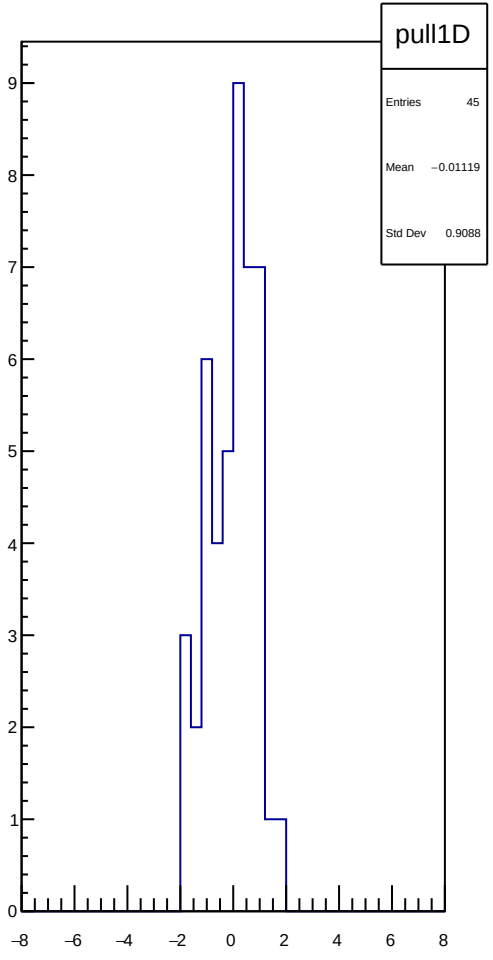

asym_sam_3748_avg_rms vs run
χ² / ndf 943.8 / 44
p0 2483 ± 2.676
2700
2600
2500
2400
2300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

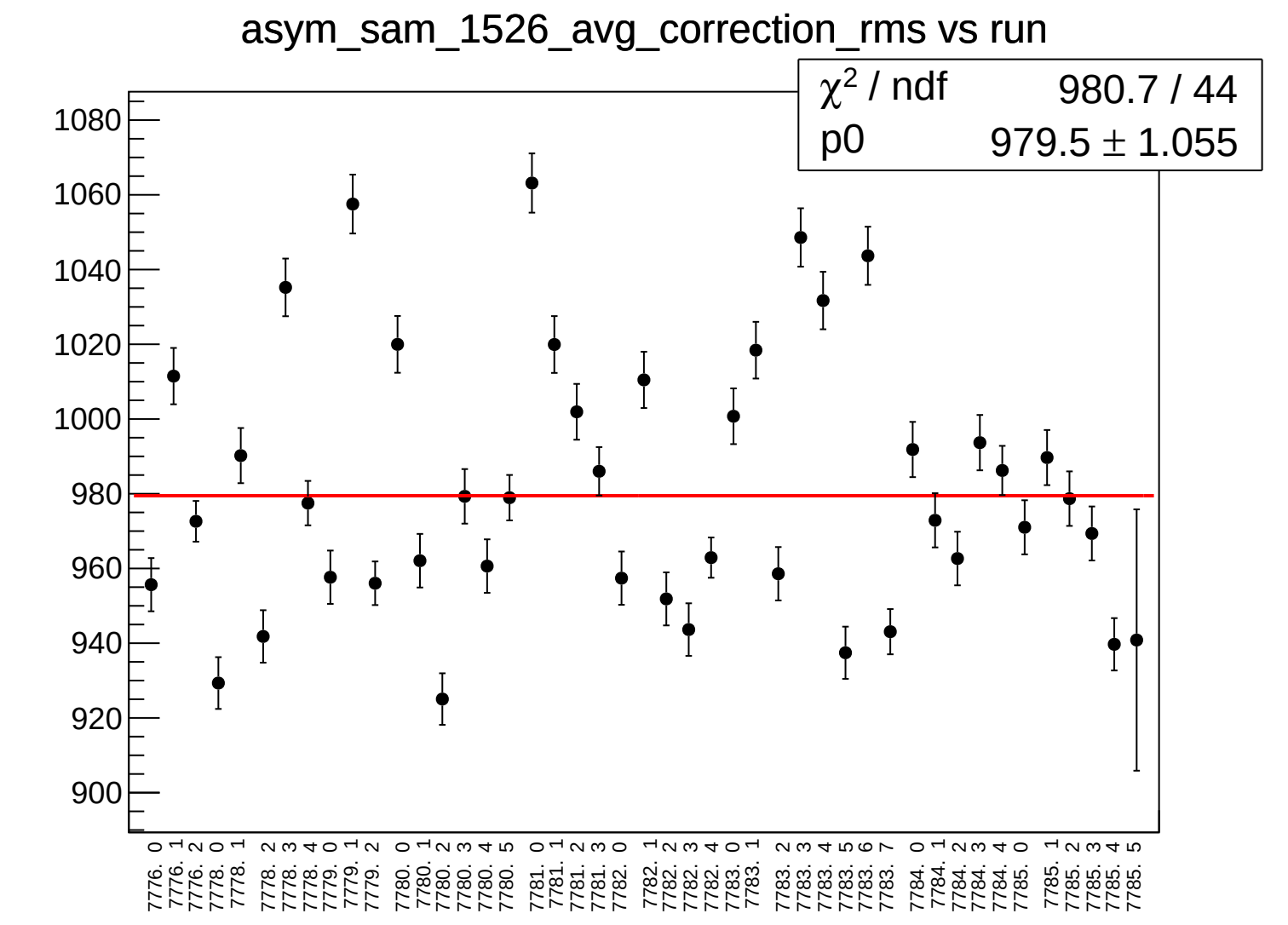

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 42.1 / 44
p0 −10.56 ± 188.6
8000
6000
4000
2000
0
−2000
−4000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −150.6
Std Dev 176
1.5
1
0.5
0
−0.5
−1
−1.5
−2

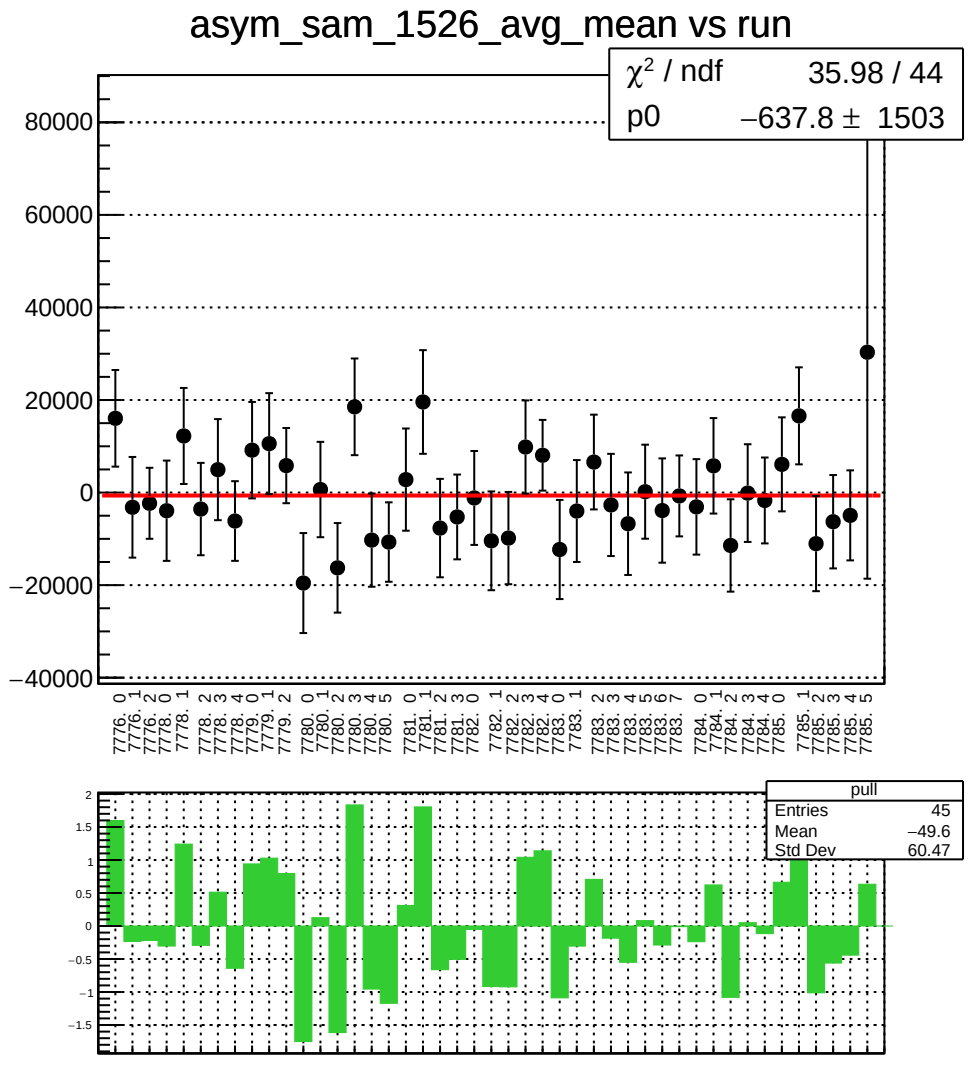

pull1D
Entries 45
Mean 0.02047
Std Dev 0.967
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

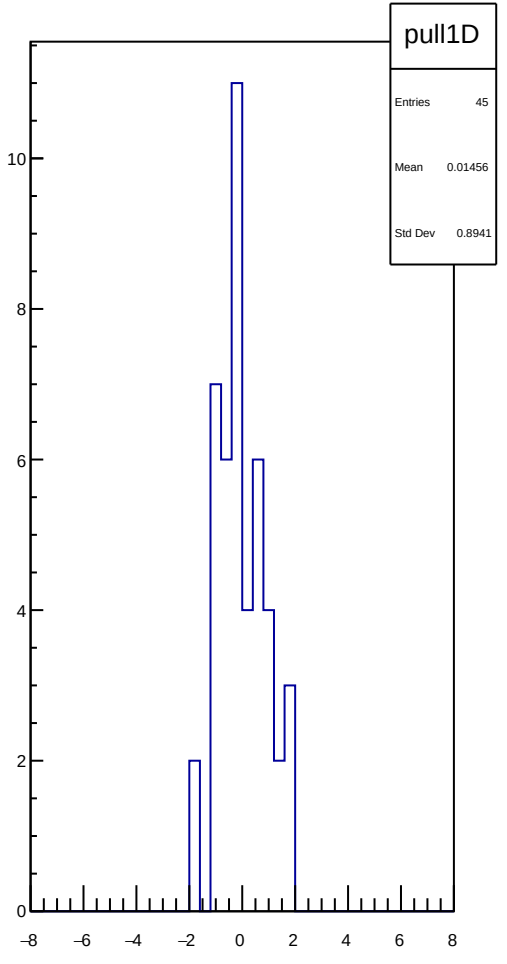

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3154 / 44
p0 123.6 ± 0.1334
170
160
150
140
130
120
110
100
90
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

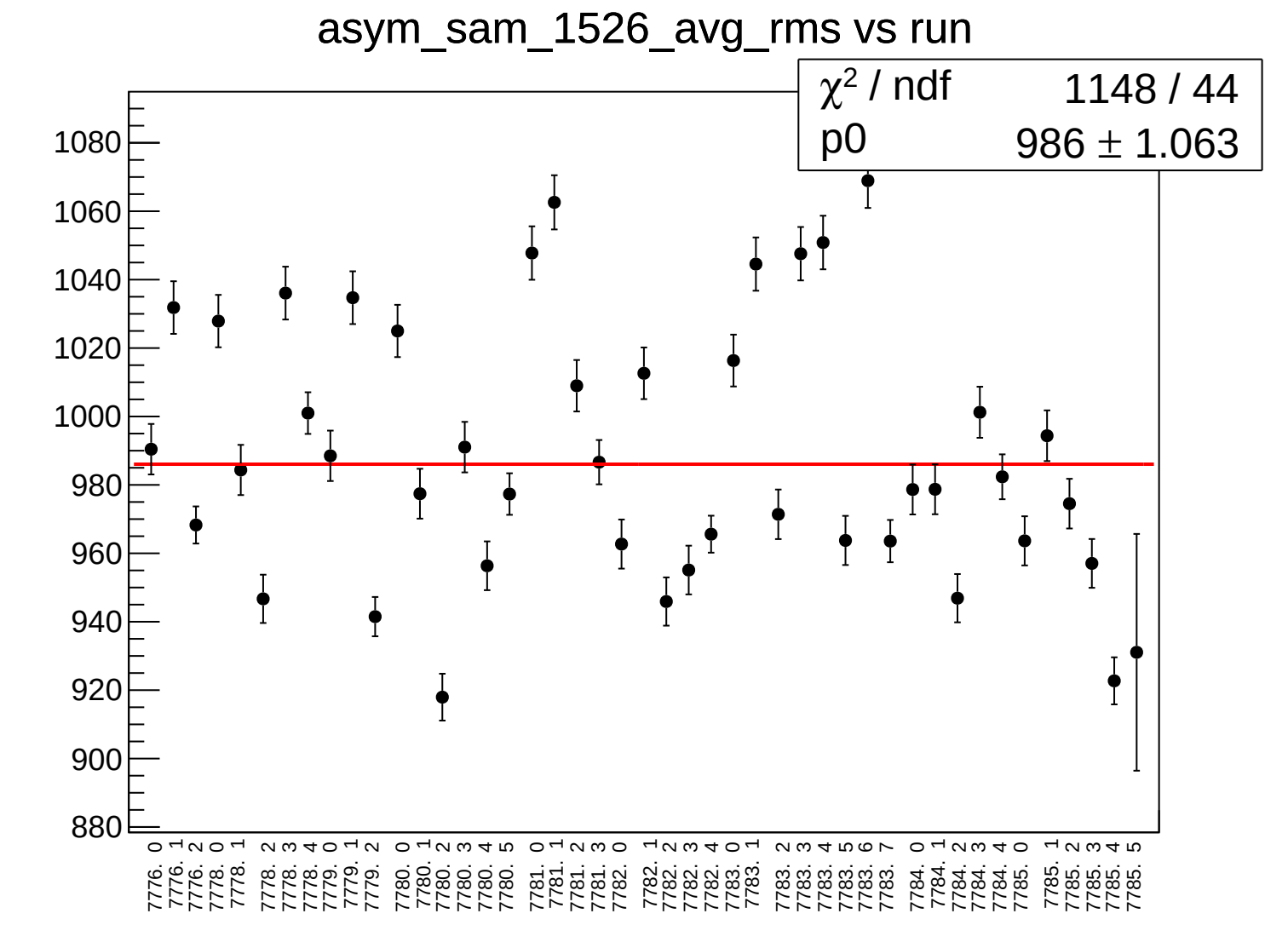

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 37.17 / 44
p0 609.9 ± 1493
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −29.79
Std Dev 22.45
1.5
1
0.5
0
−0.5
−1
−1.5

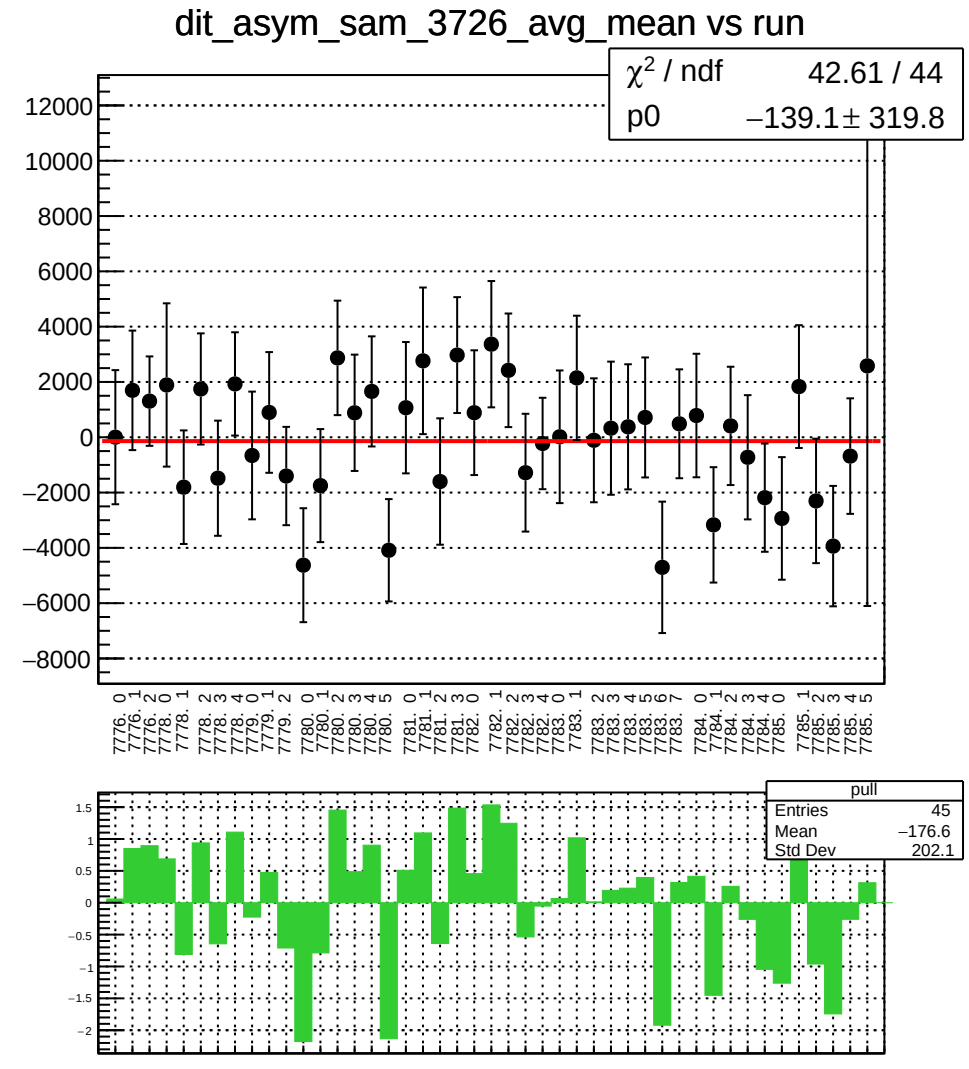

pull1D
Entries 45
Mean −0.01119
Std Dev 0.9088
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

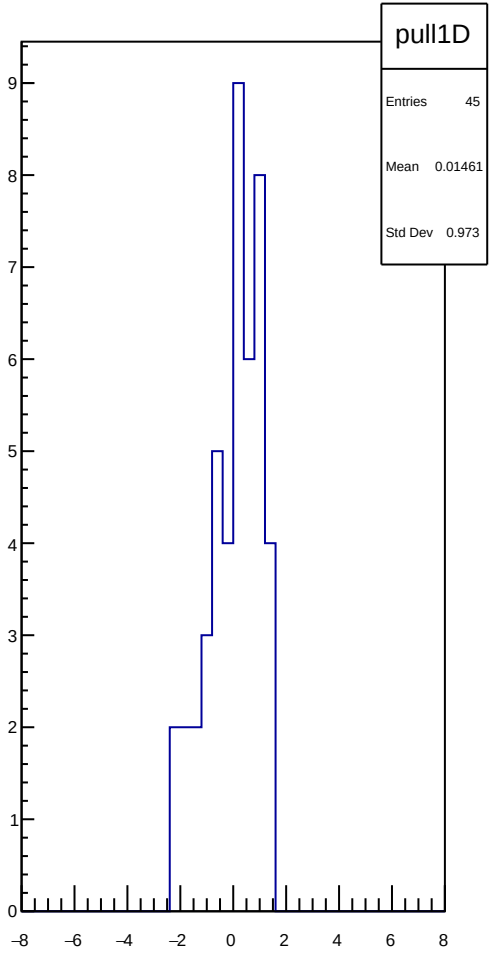

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 980.7 / 44
p0 979.5 ± 1.055
1080
1060
1040
1020
1000
980
960
940
920
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

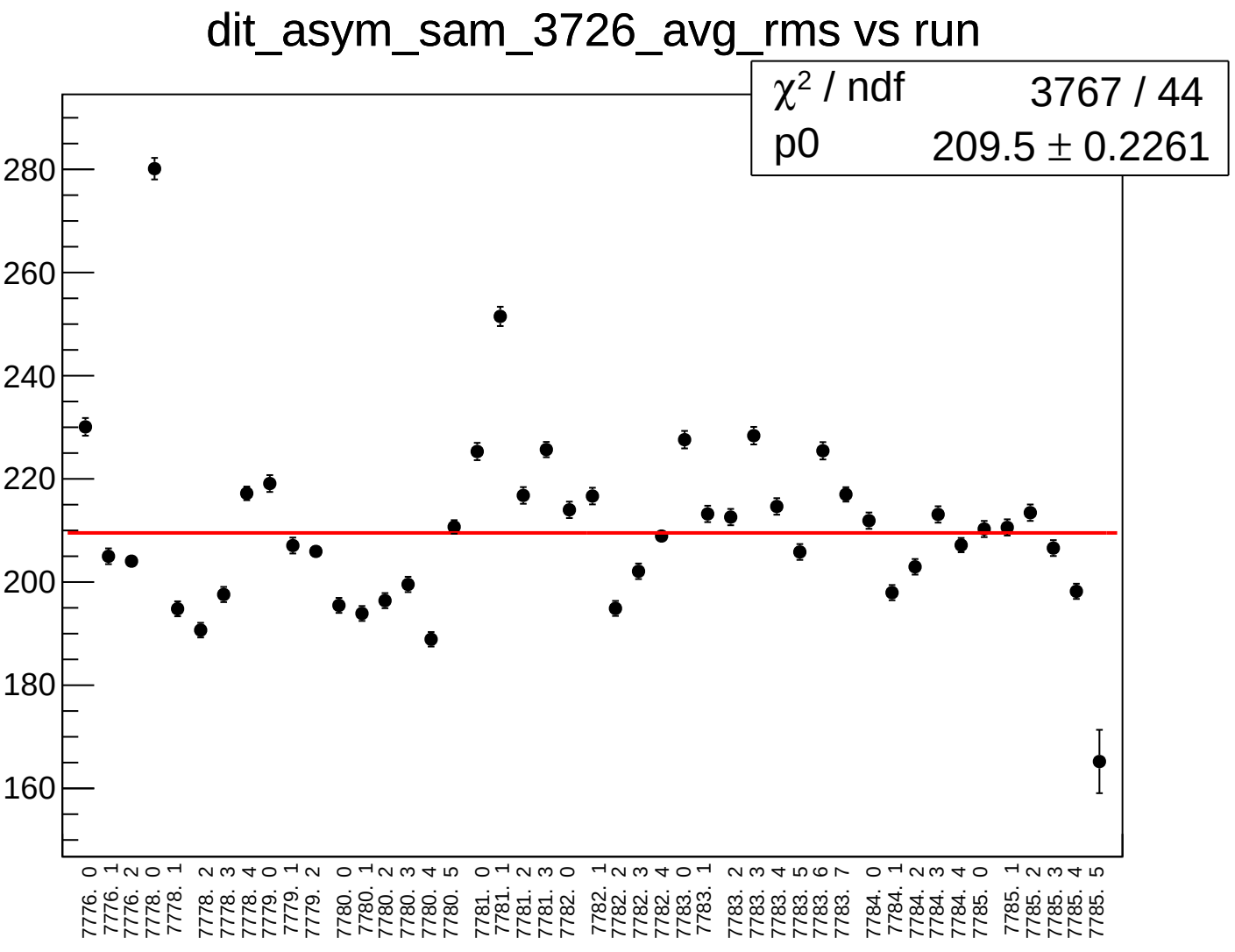

asym_sam_1526_avg_mean vs run
χ² / ndf 35.98 / 44
p0 −637.8 ± 1503
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −49.6
Std Dev 60.47
2
1.5
1
0.5
0
−0.5
−1
−1.5

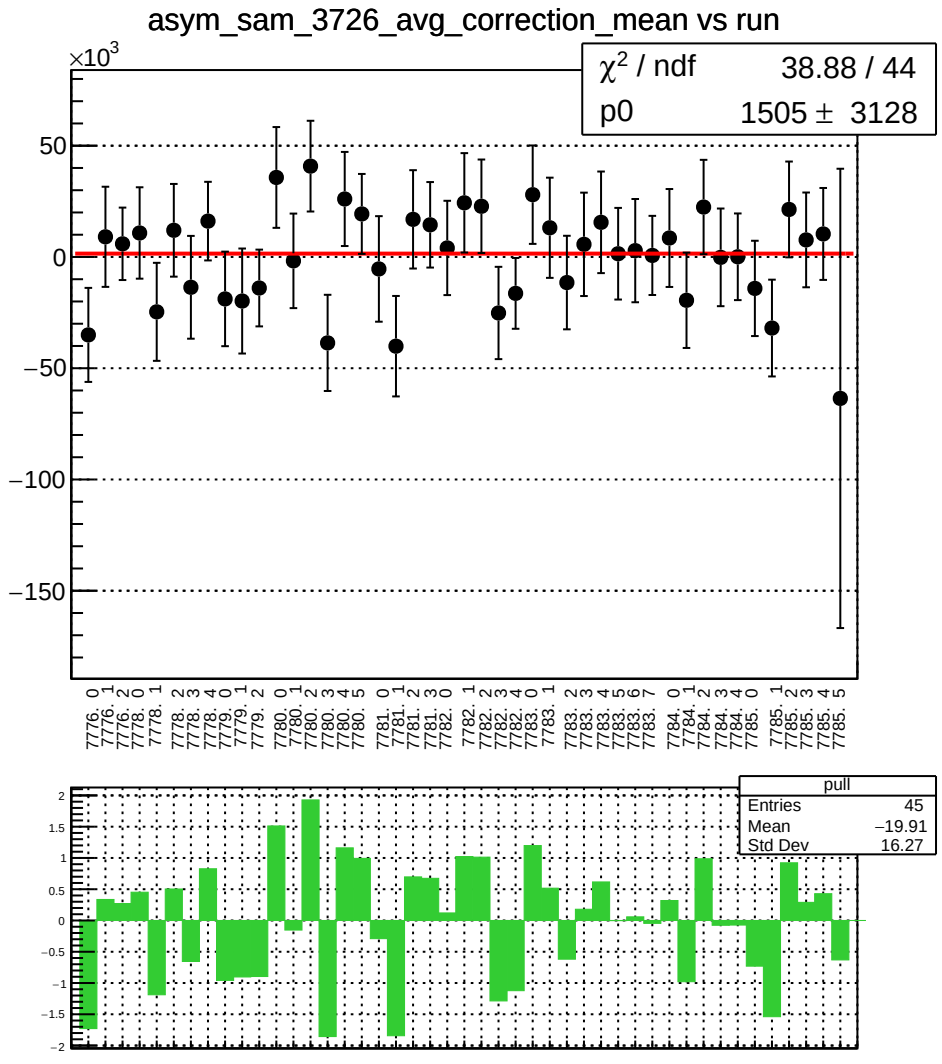

pull1D
Entries 45
Mean 0.01456
Std Dev 0.8941
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

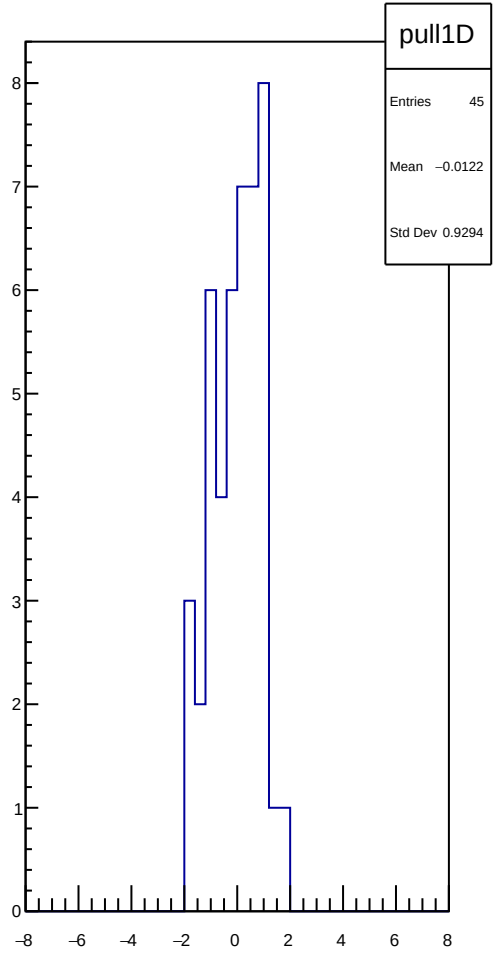

asym_sam_1526_avg_rms vs run
χ² / ndf 1148 / 44
p0 986 ± 1.063
1080
1060
1040
1020
1000
980
960
940
920
900
880
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

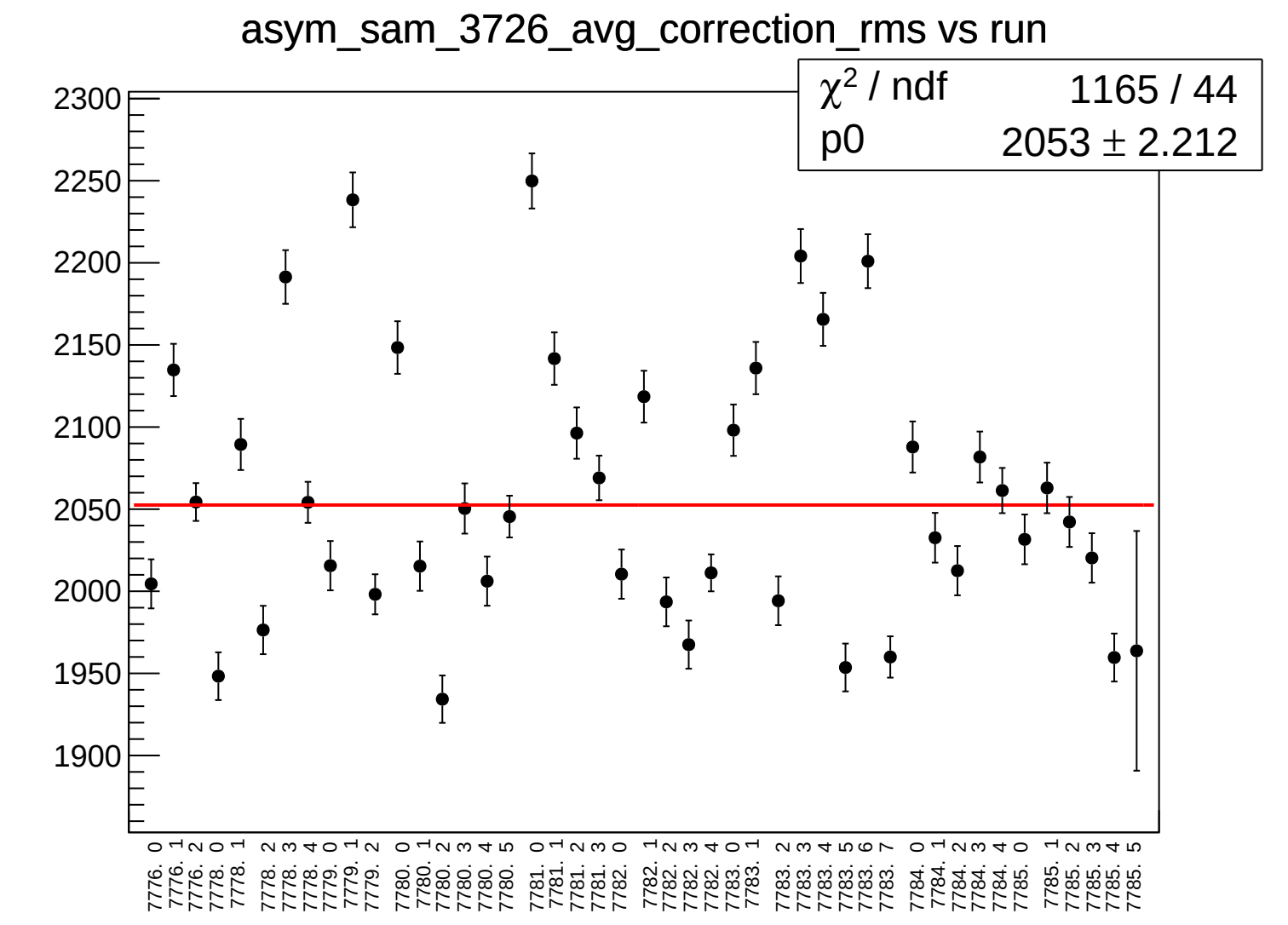

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 42.61 / 44
p0 −139.1± 319.8
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −176.6
Std Dev 202.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

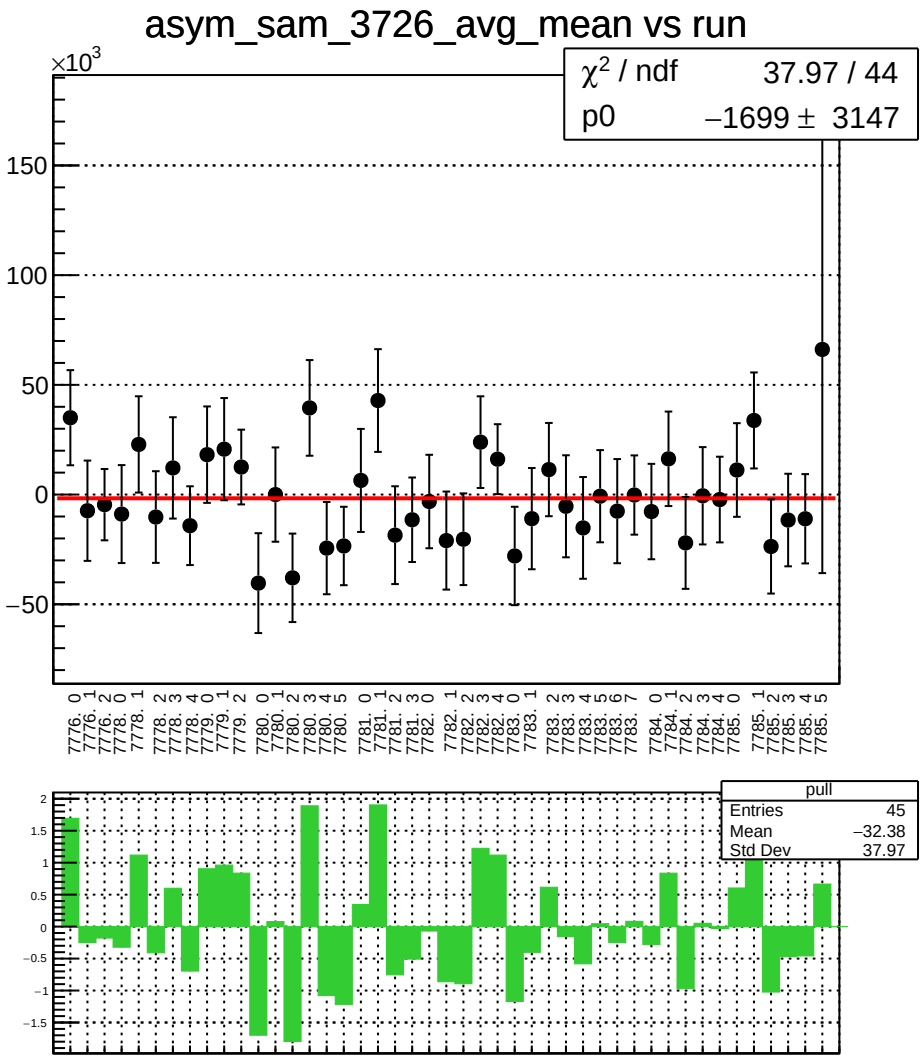

pull1D
Entries 45
Mean 0.01461
Std Dev 0.973
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

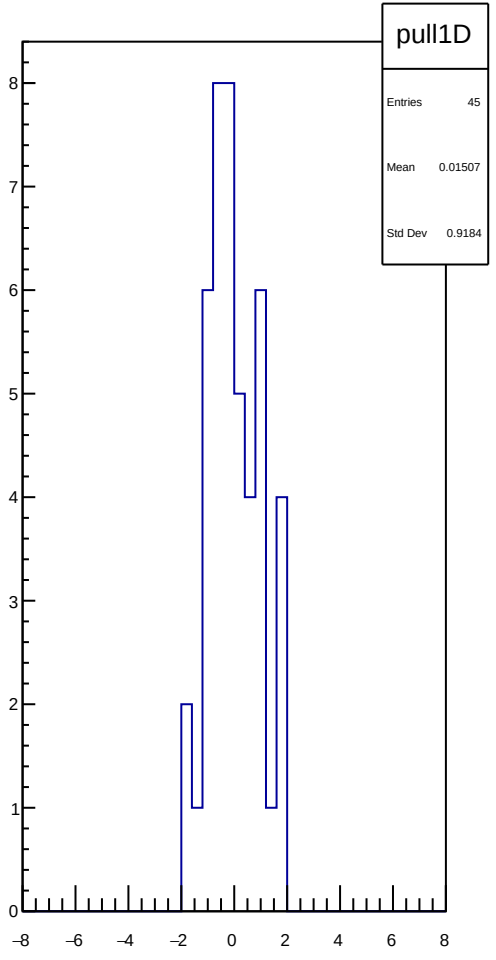

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3767 / 44
p0 209.5 ± 0.2261
280
260
240
220
200
180
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

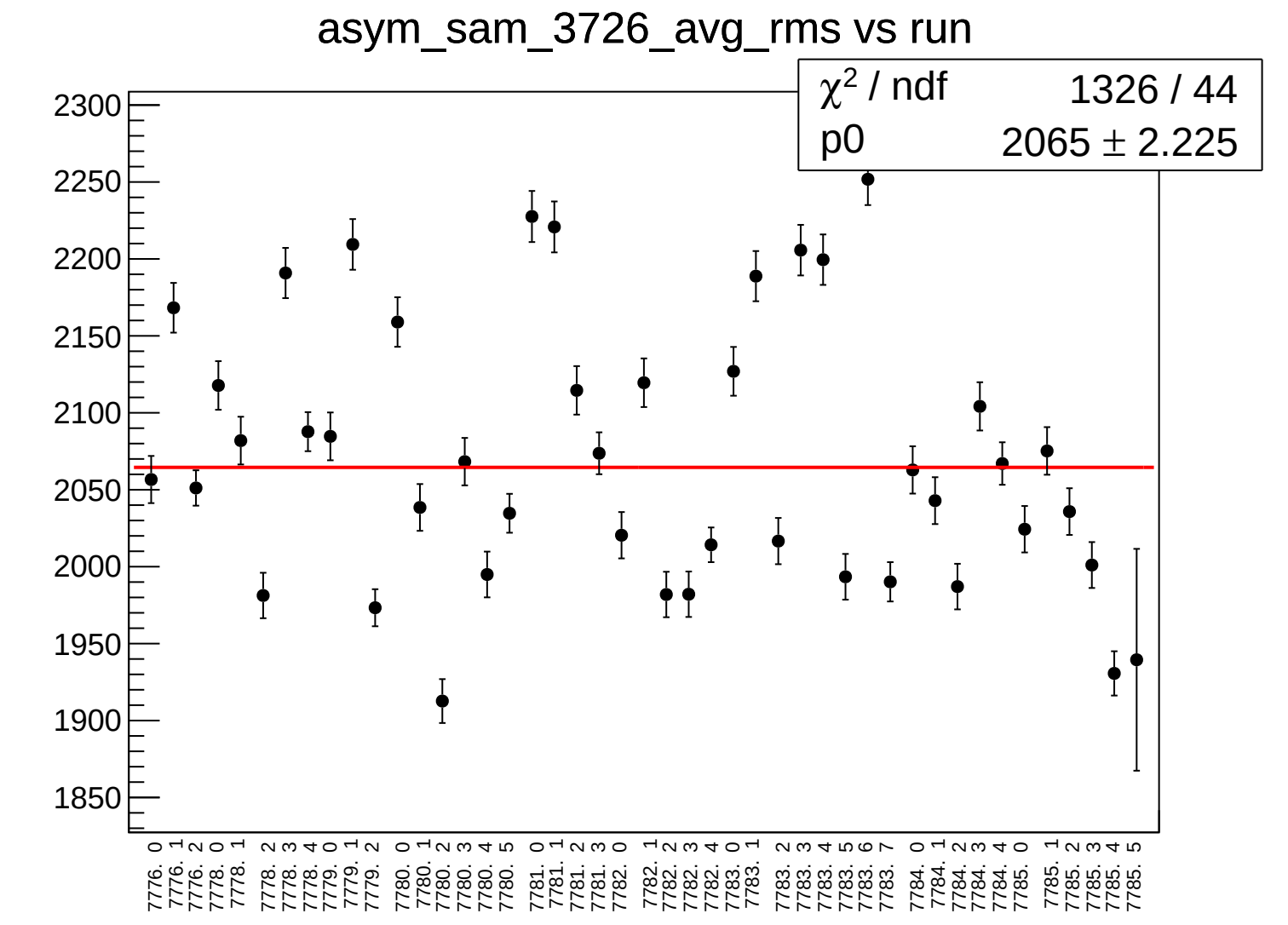

asym_sam_3726_avg_correction_mean vs run
×10^3
χ² / ndf 38.88 / 44
p0 1505 ± 3128
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −19.91
Std Dev 16.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

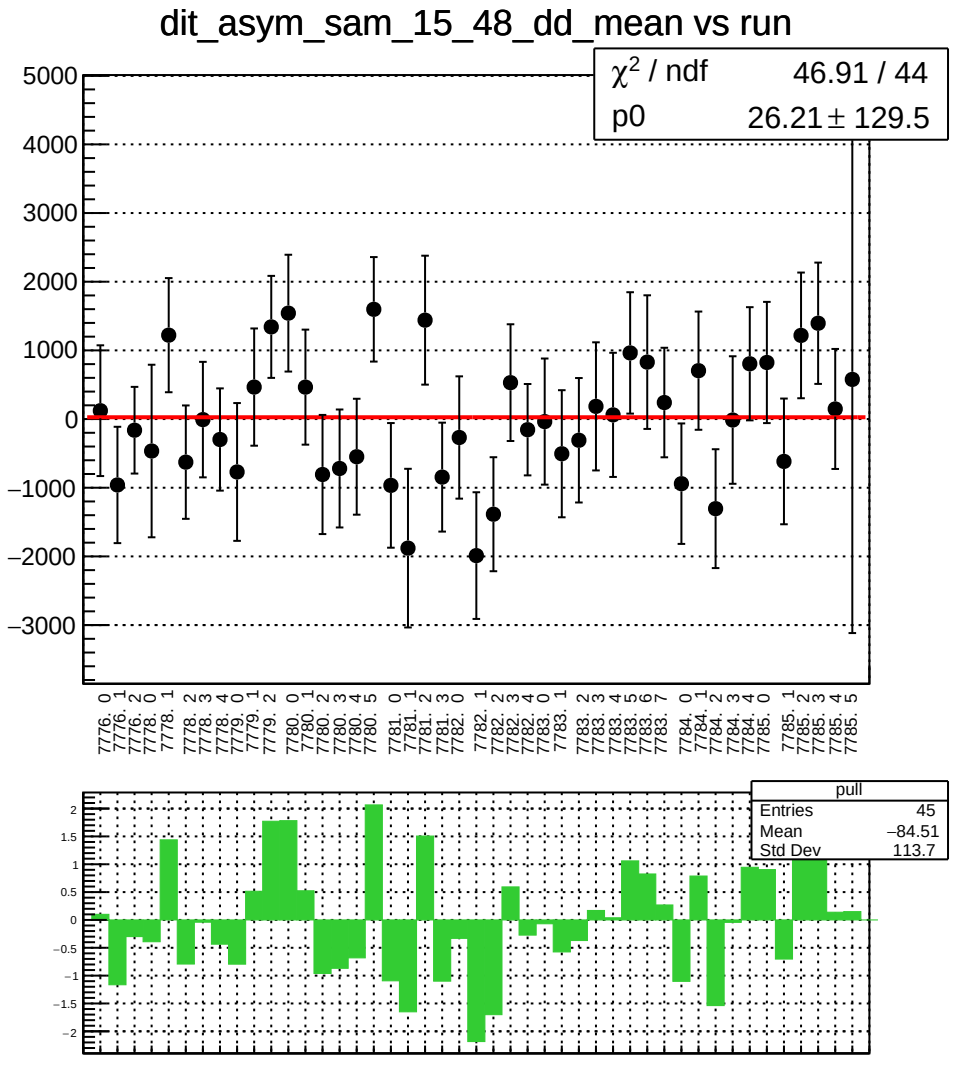

pull1D
Entries 45
Mean −0.0122
Std Dev 0.9294
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

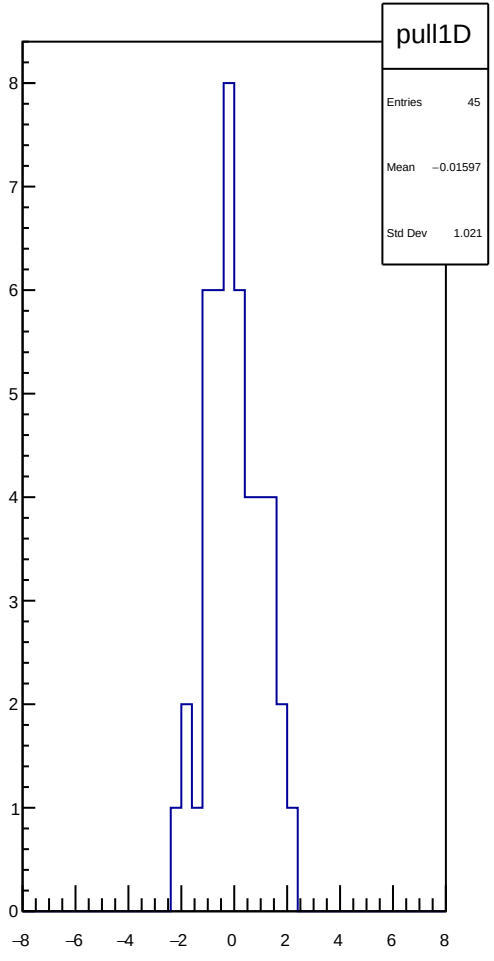

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1165 / 44
p0 2053 ± 2.212
2300
2250
2200
2150
2100
2050
2000
1950
1900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

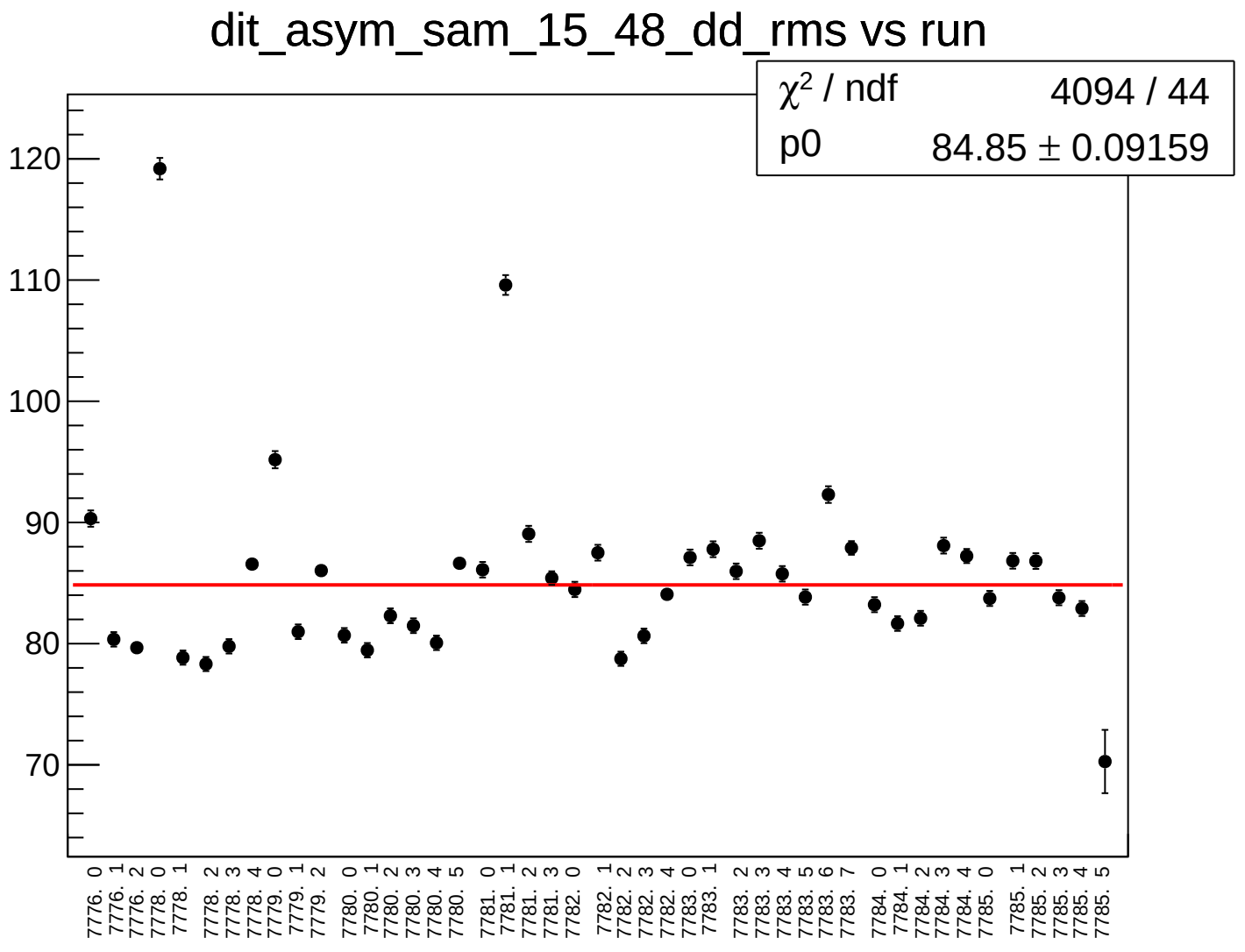

asym_sam_3726_avg_mean vs run
×10^3
χ² / ndf 37.97 / 44
p0 −1699 ± 3147
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −32.38
Std Dev 37.97
2
1.5
1
0.5
0
−0.5
−1
−1.5

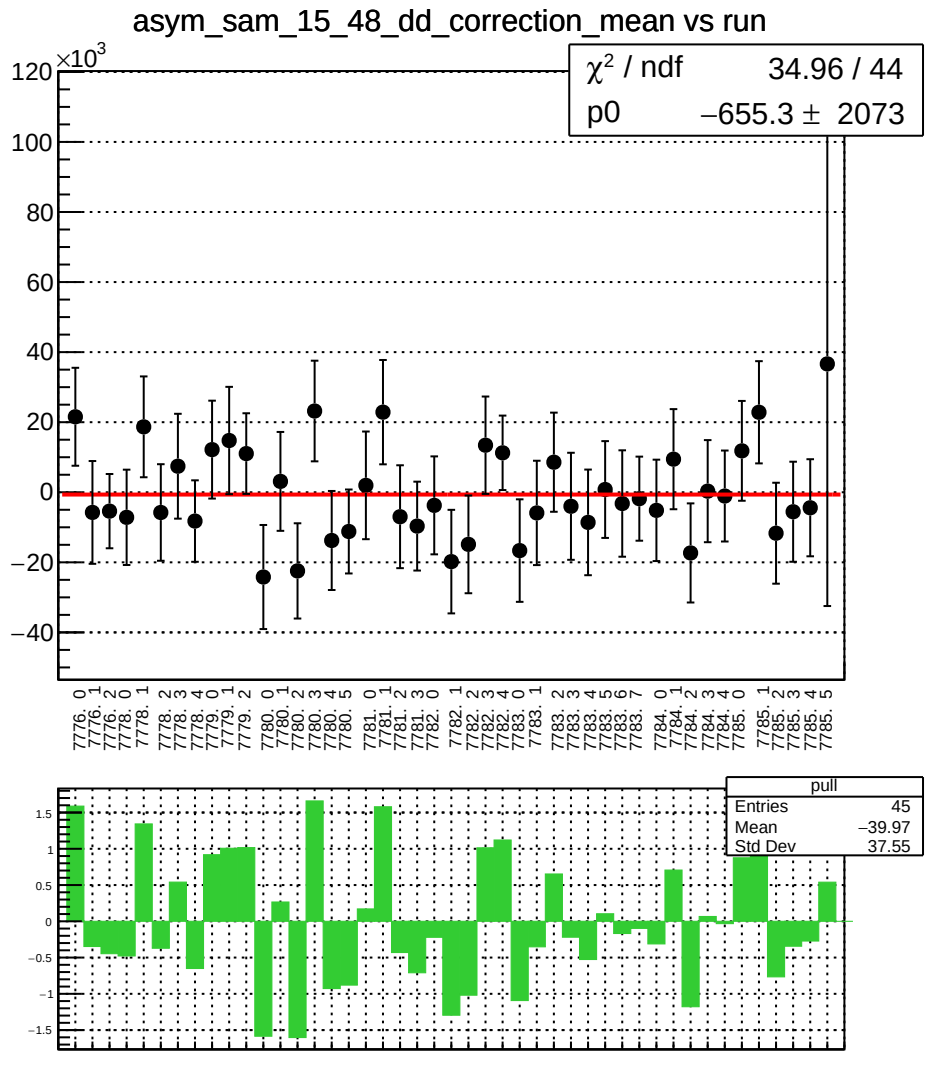

pull1D
Entries 45
Mean 0.01507
Std Dev 0.9184
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

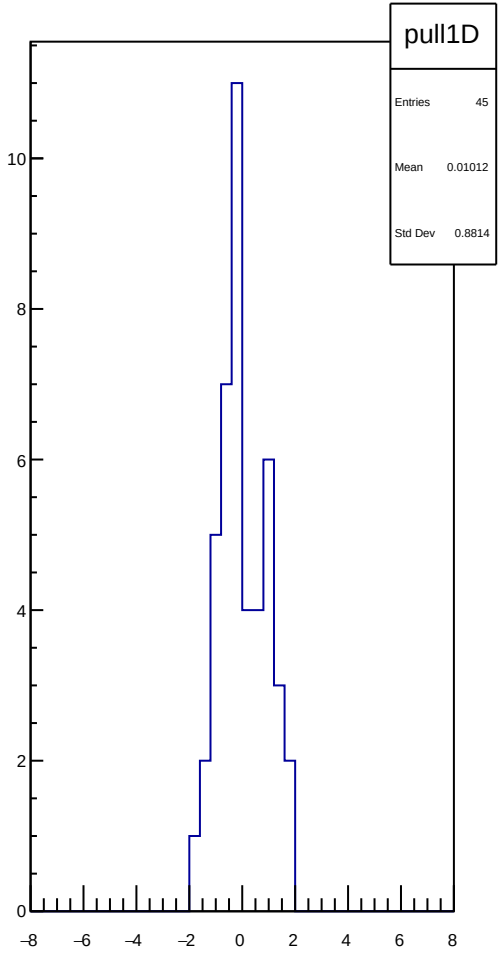

asym_sam_3726_avg_rms vs run
χ² / ndf 1326 / 44
p0 2065 ± 2.225
2300
2250
2200
2150
2100
2050
2000
1950
1900
1850
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

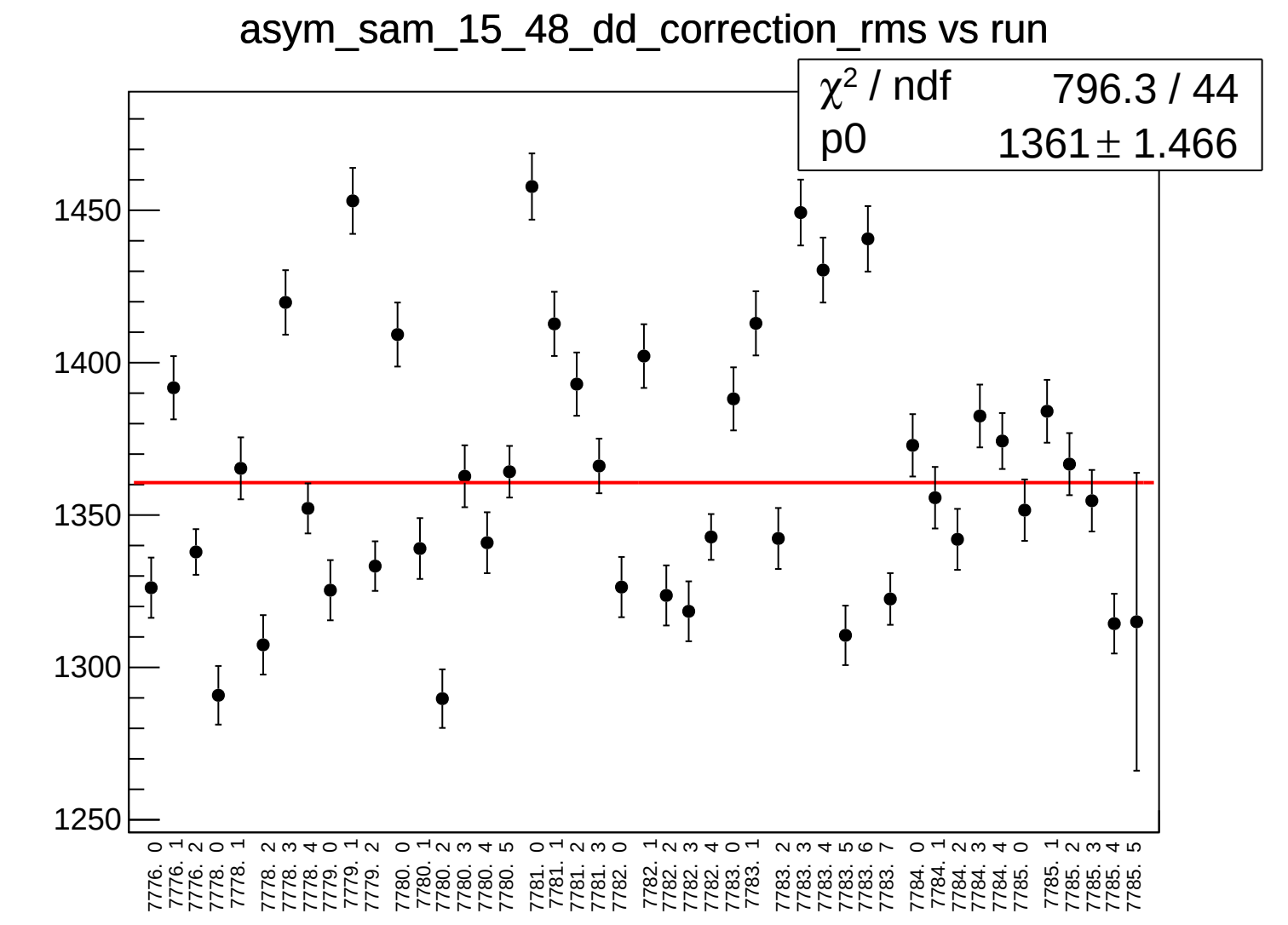

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 46.91 / 44
p0 26.21 ± 129.5
pull
Entries 45
Mean −84.51
Std Dev 113.7

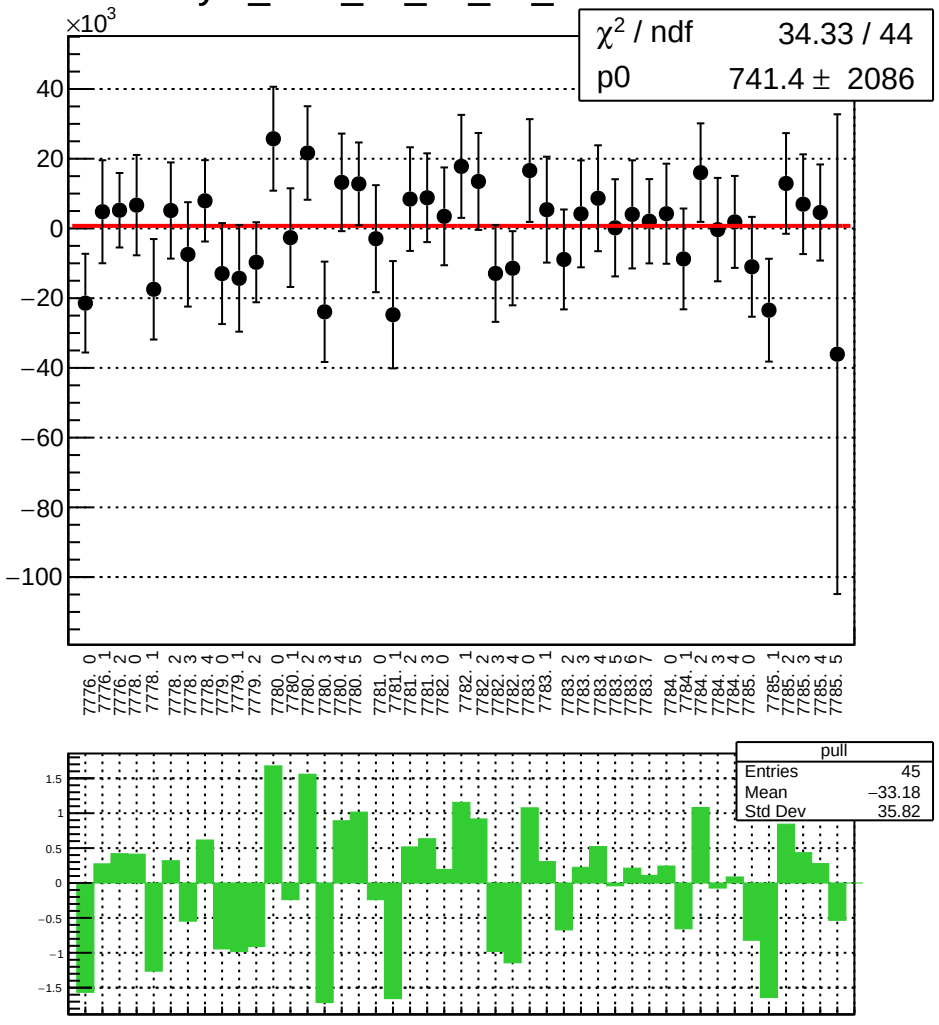

pull1D
Entries 45
Mean −0.01597
Std Dev 1.021

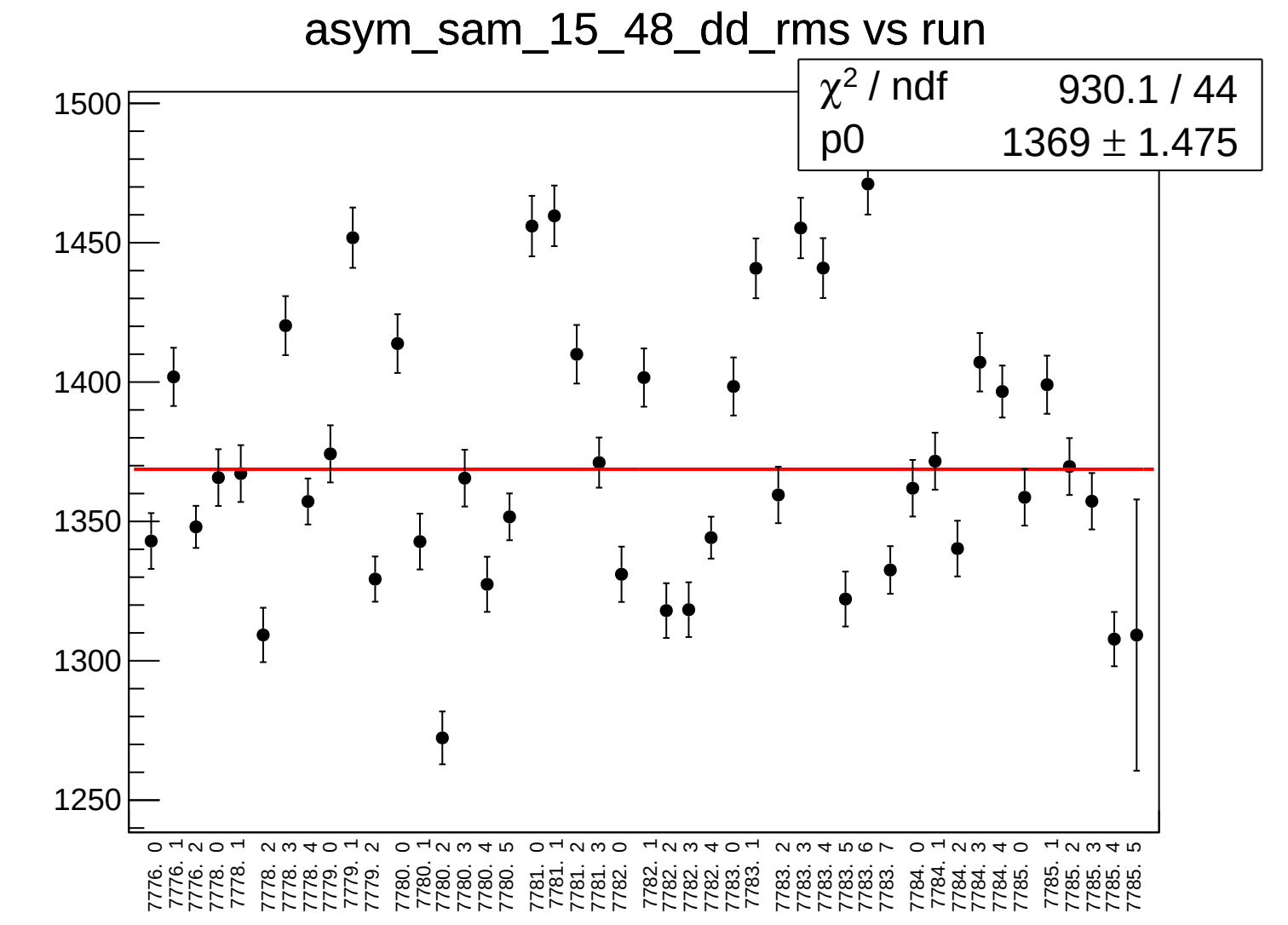

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 4094 / 44
p0 84.85 ± 0.09159
120
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

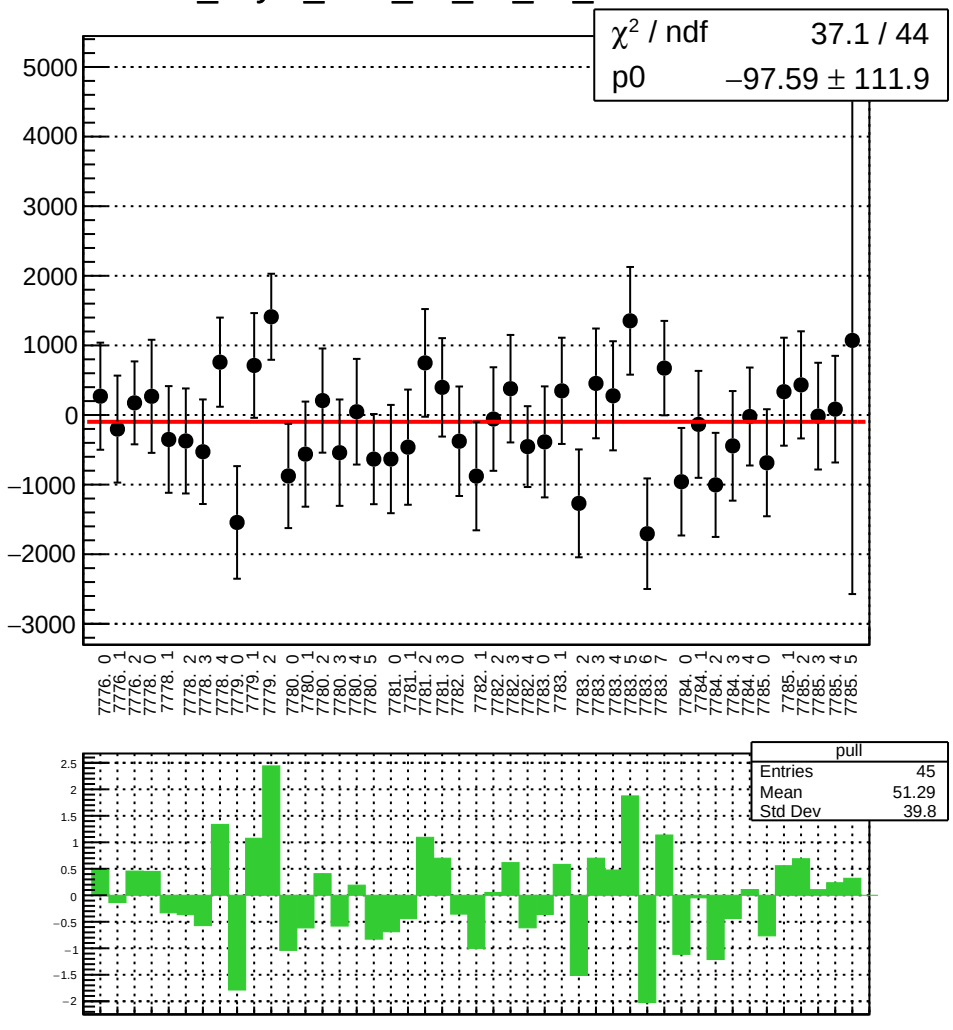

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 34.96 / 44
p0 −655.3 ± 2073
×10³
pull
Entries 45
Mean −39.97
Std Dev 37.55

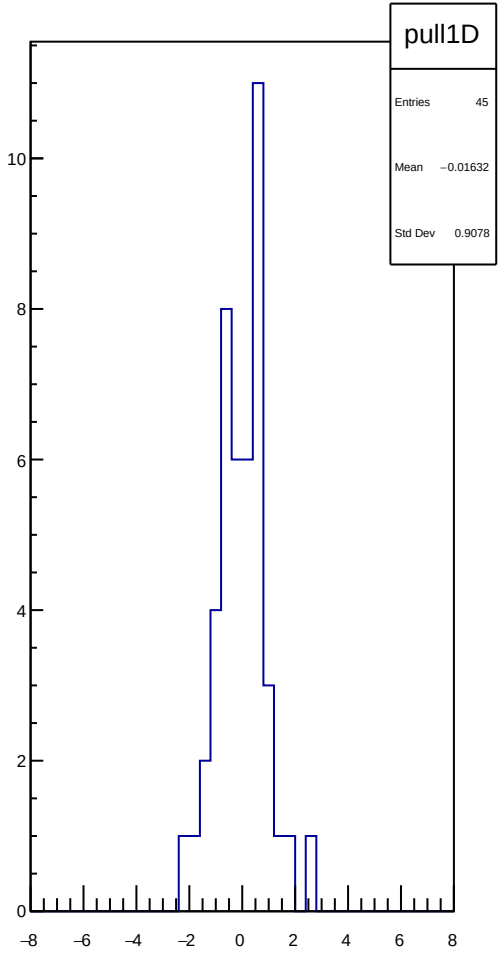

pull1D
Entries 45
Mean 0.01012
Std Dev 0.8814

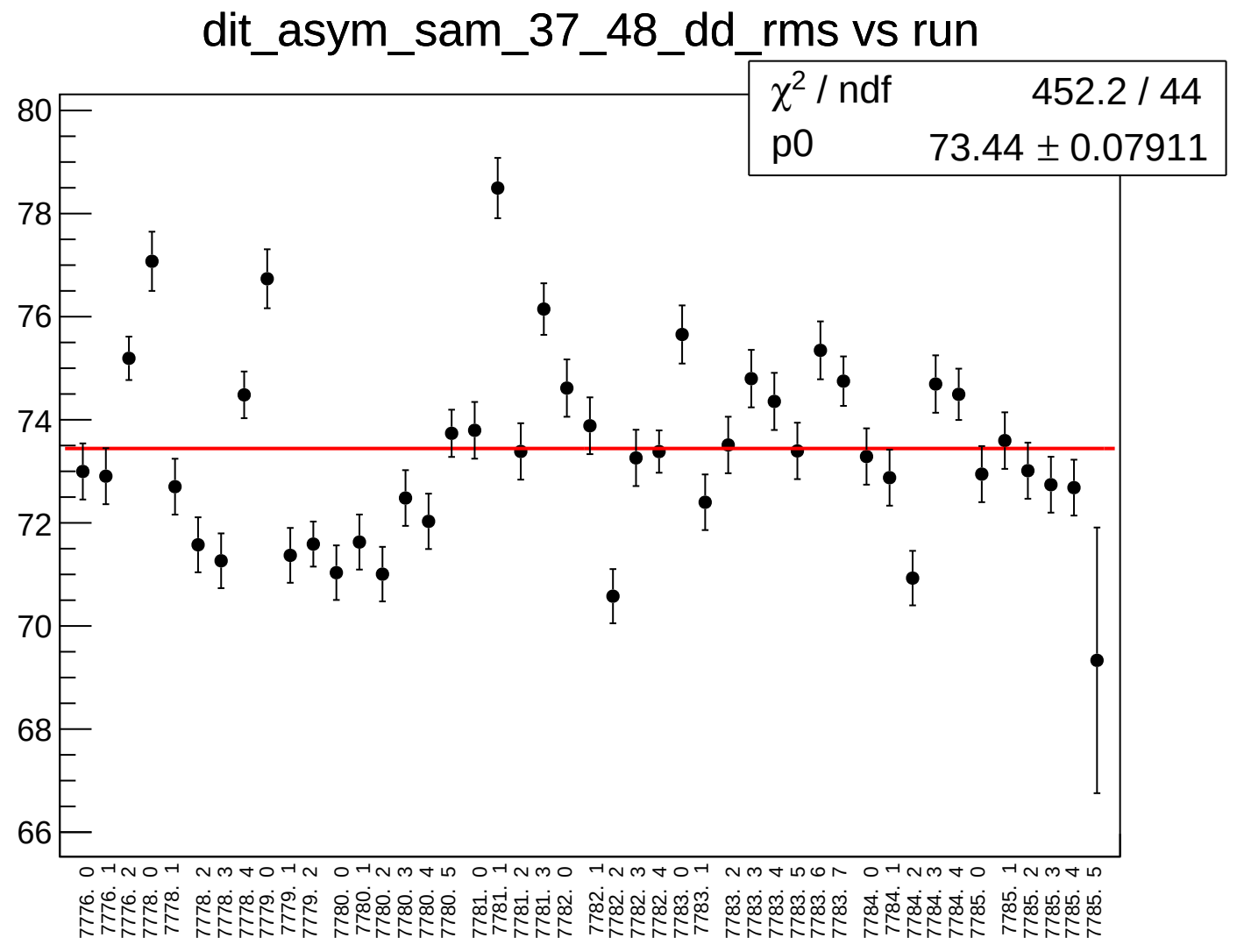

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 796.3 / 44
p0 1361 ± 1.466
1450
1400
1350
1300
1250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

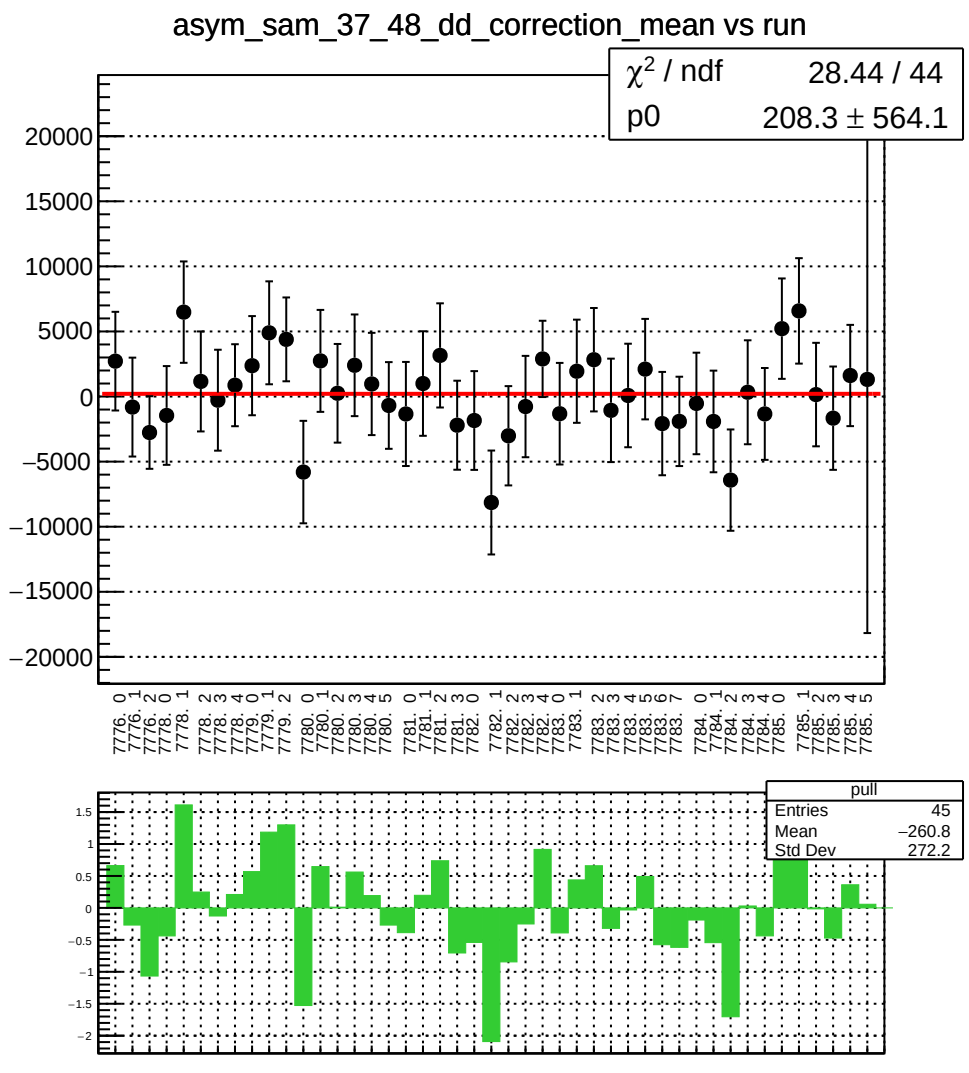

asym_sam_15_48_dd_mean vs run
×10^3
χ² / ndf 34.33 / 44
p0 741.4 ± 2086
40
20
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −33.18
Std Dev 35.82
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01335
Std Dev 0.8733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

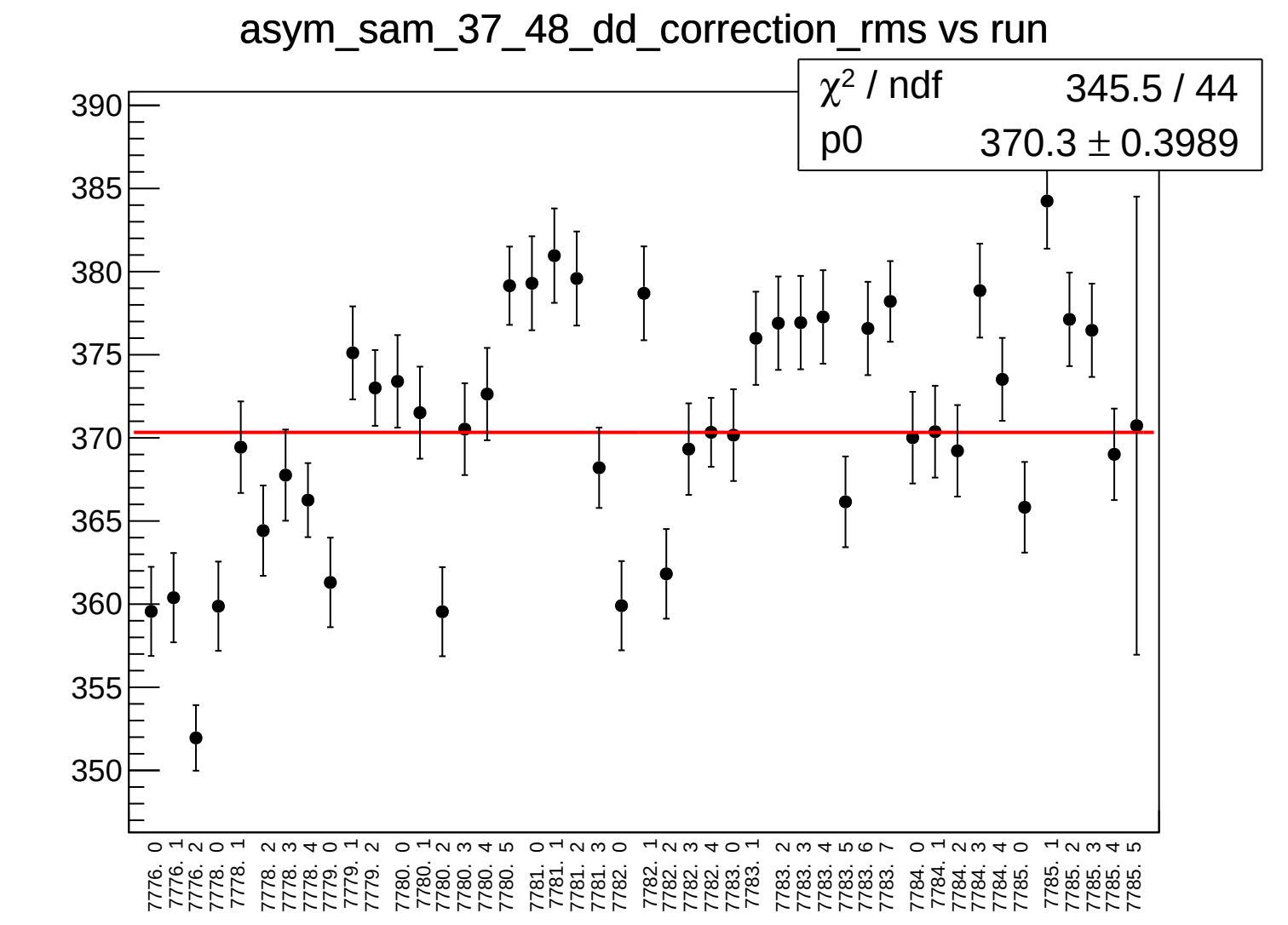

asym_sam_15_48_dd_rms vs run
χ² / ndf 930.1 / 44
p0 1369 ± 1.475
1500
1450
1400
1350
1300
1250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

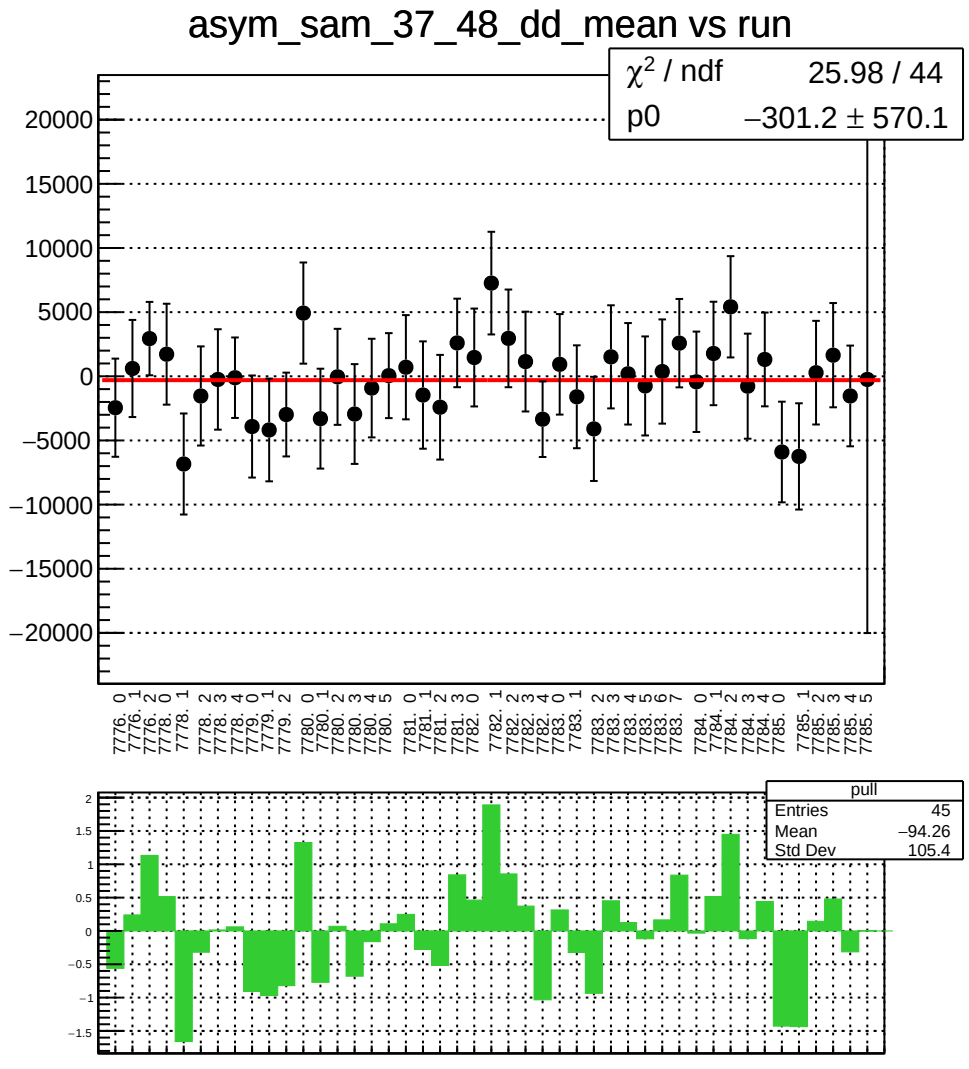

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 37.1 / 44
p0 −97.59 ± 111.9
pull
Entries 45
Mean 51.29
Std Dev 39.8

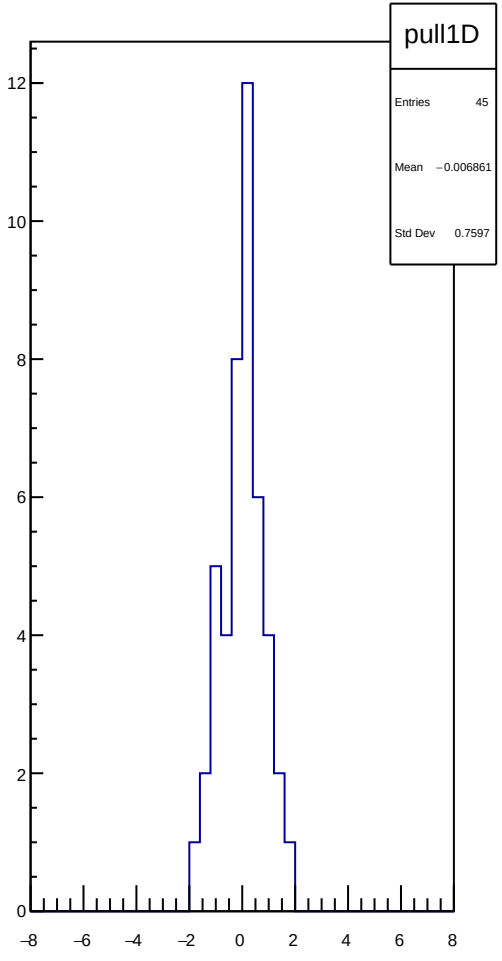

pull1D
Entries 45
Mean −0.01632
Std Dev 0.9078

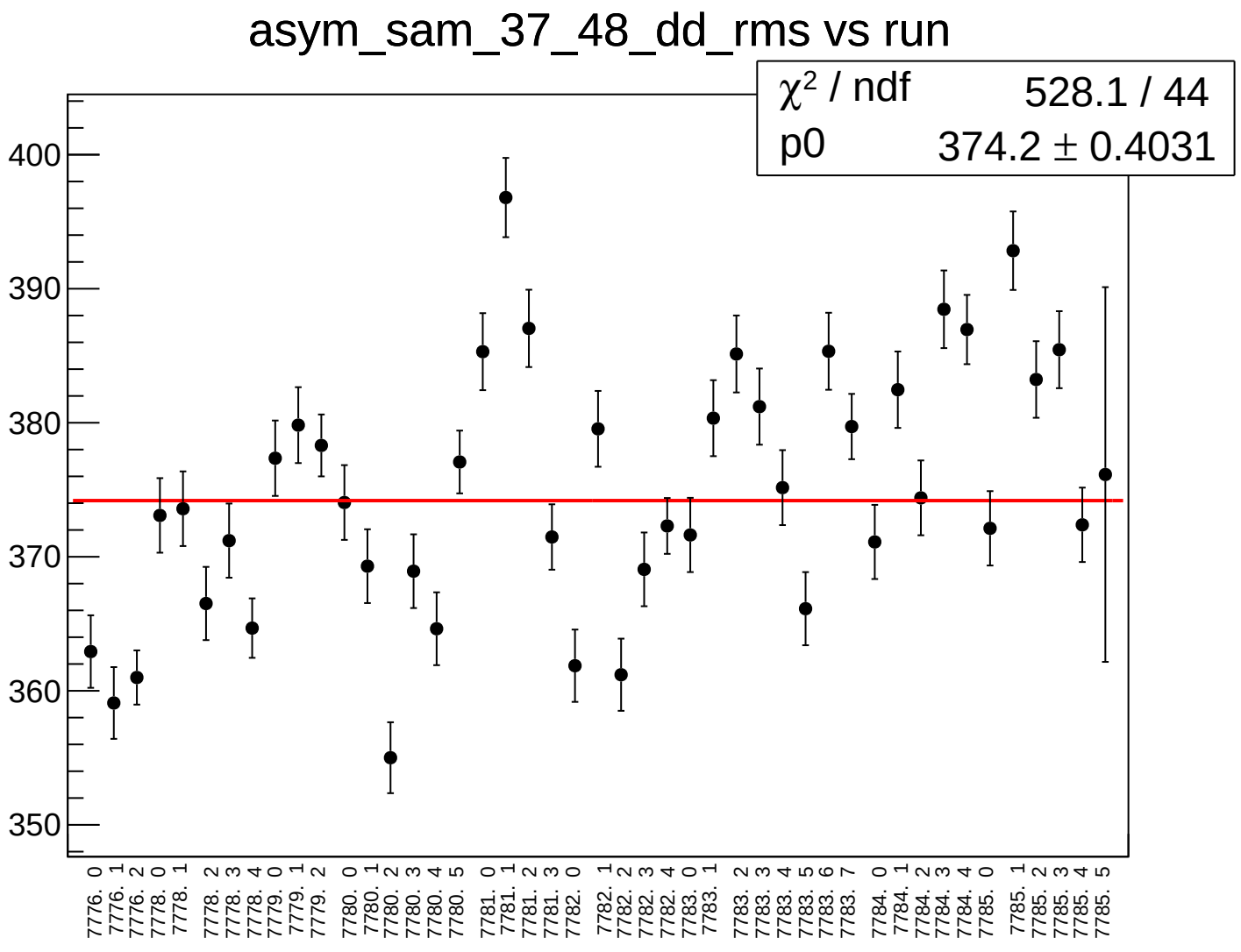

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 452.2 / 44
p0 73.44 ± 0.07911
80
78
76
74
72
70
68
66
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

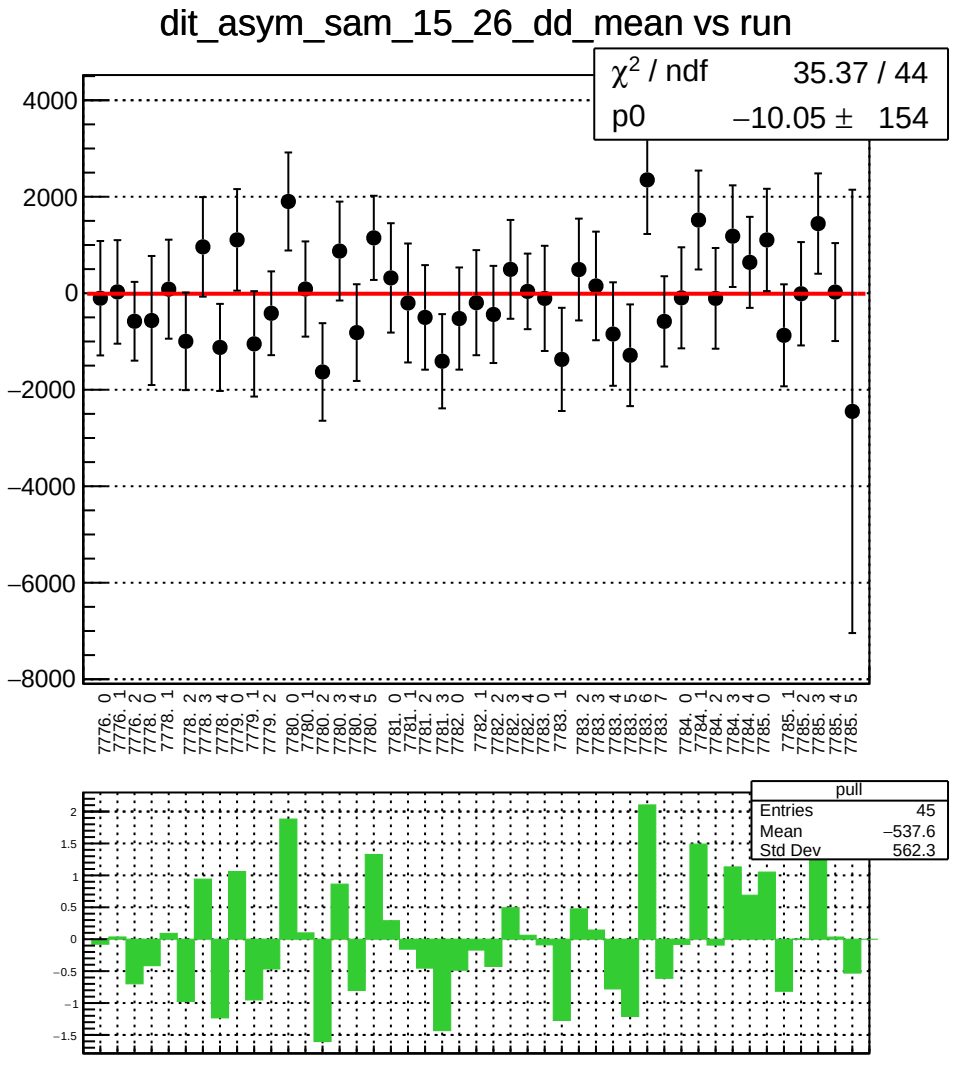

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 28.44 / 44
p0 208.3 ± 564.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −260.8
Std Dev 272.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.00318
Std Dev 0.795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

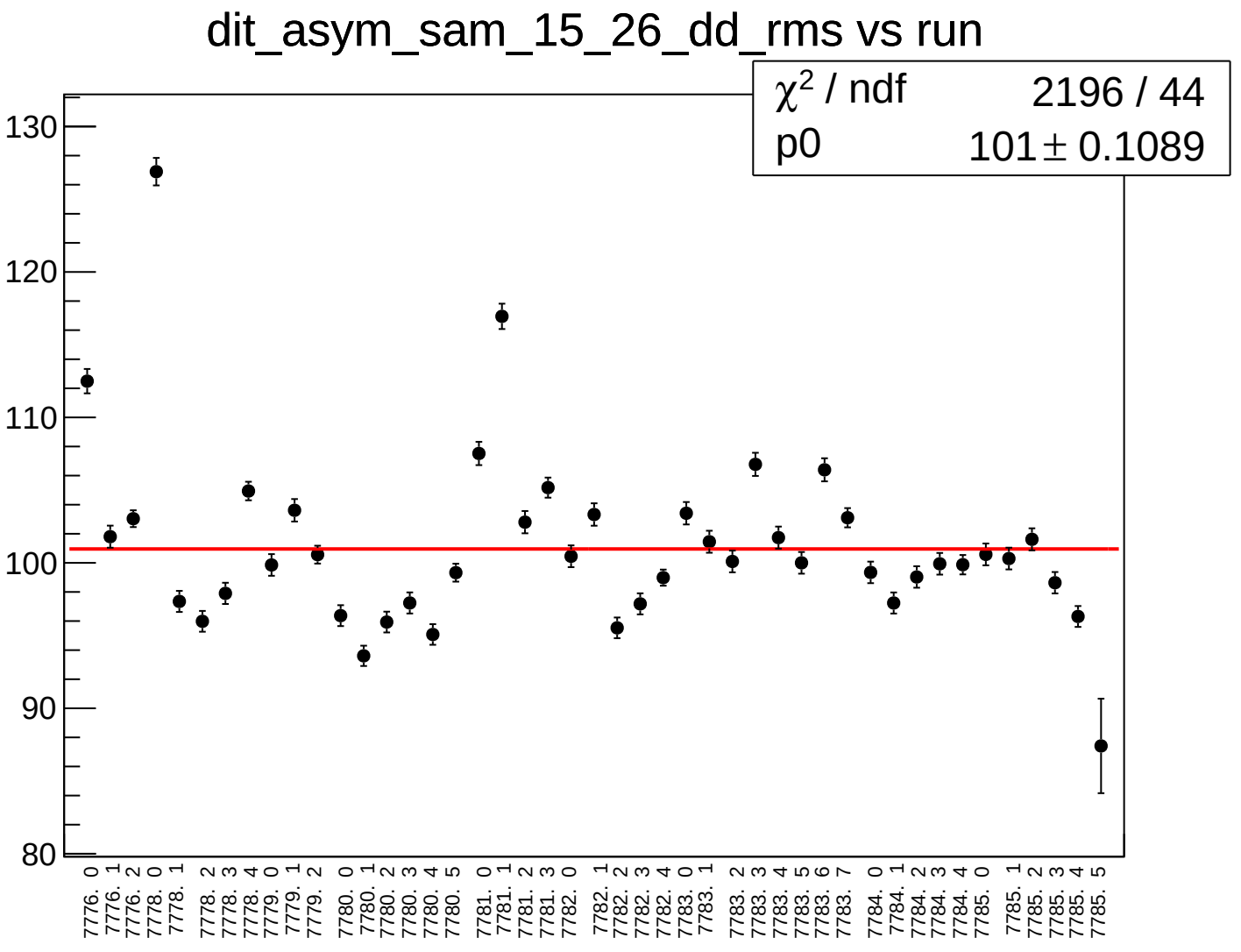

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 345.5 / 44
p0 370.3 ± 0.3989
390
385
380
375
370
365
360
355
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

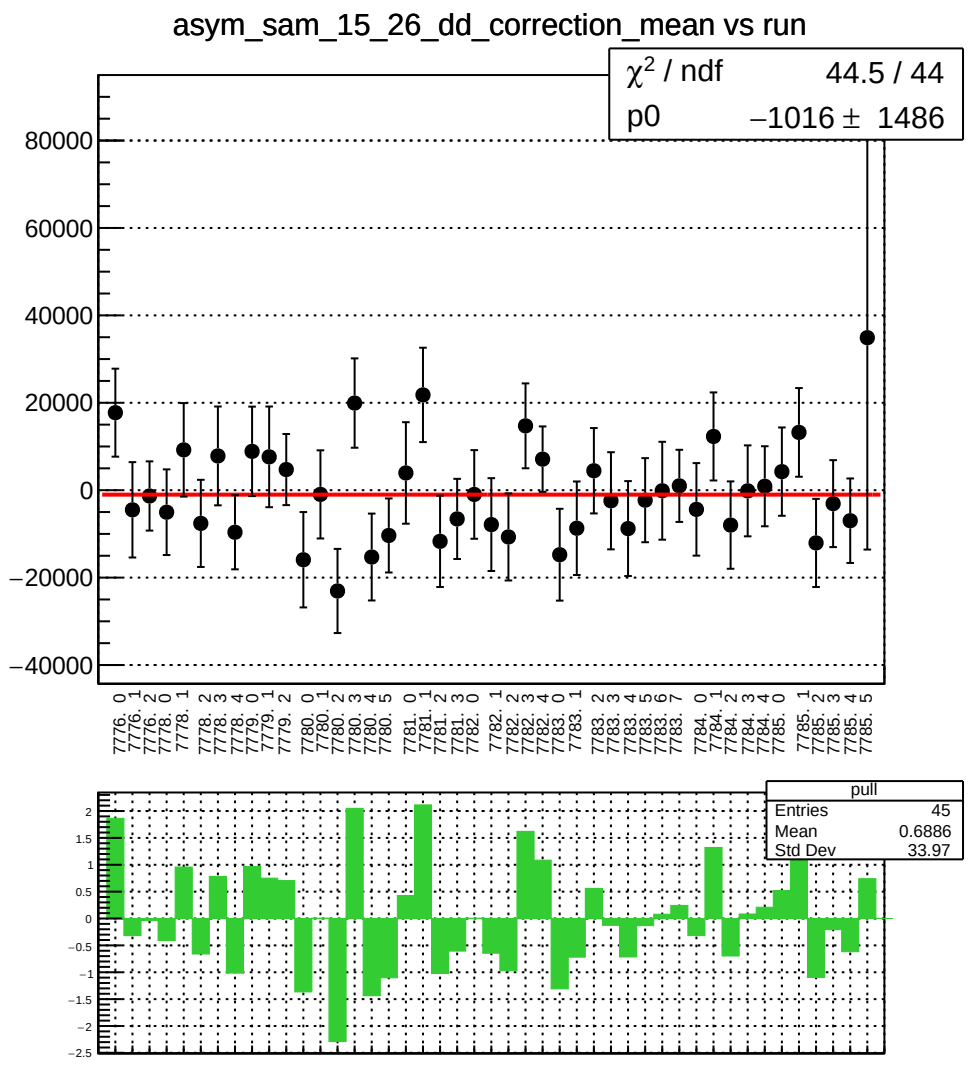

asym_sam_37_48_dd_mean vs run
χ² / ndf 25.98 / 44
p0 −301.2 ± 570.1
pull
Entries 45
Mean −94.26
Std Dev 105.4

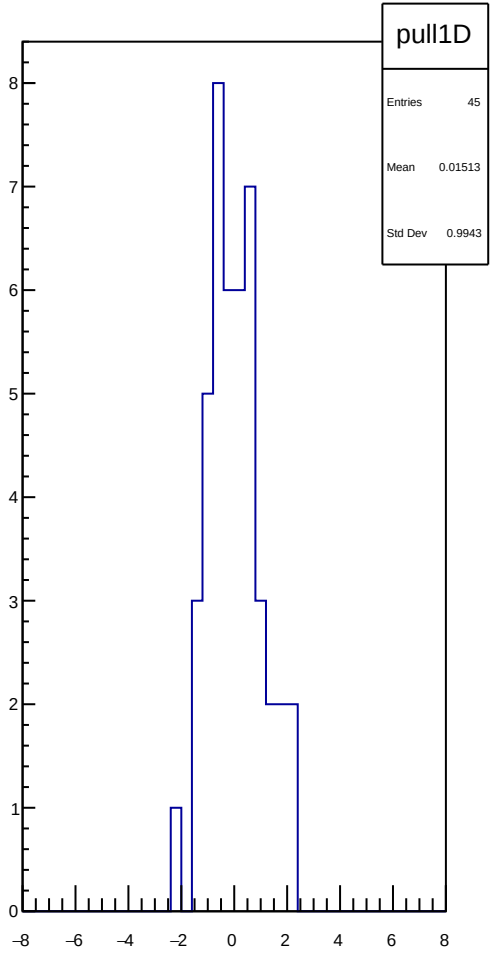

pull1D
Entries 45
Mean −0.006861
Std Dev 0.7597

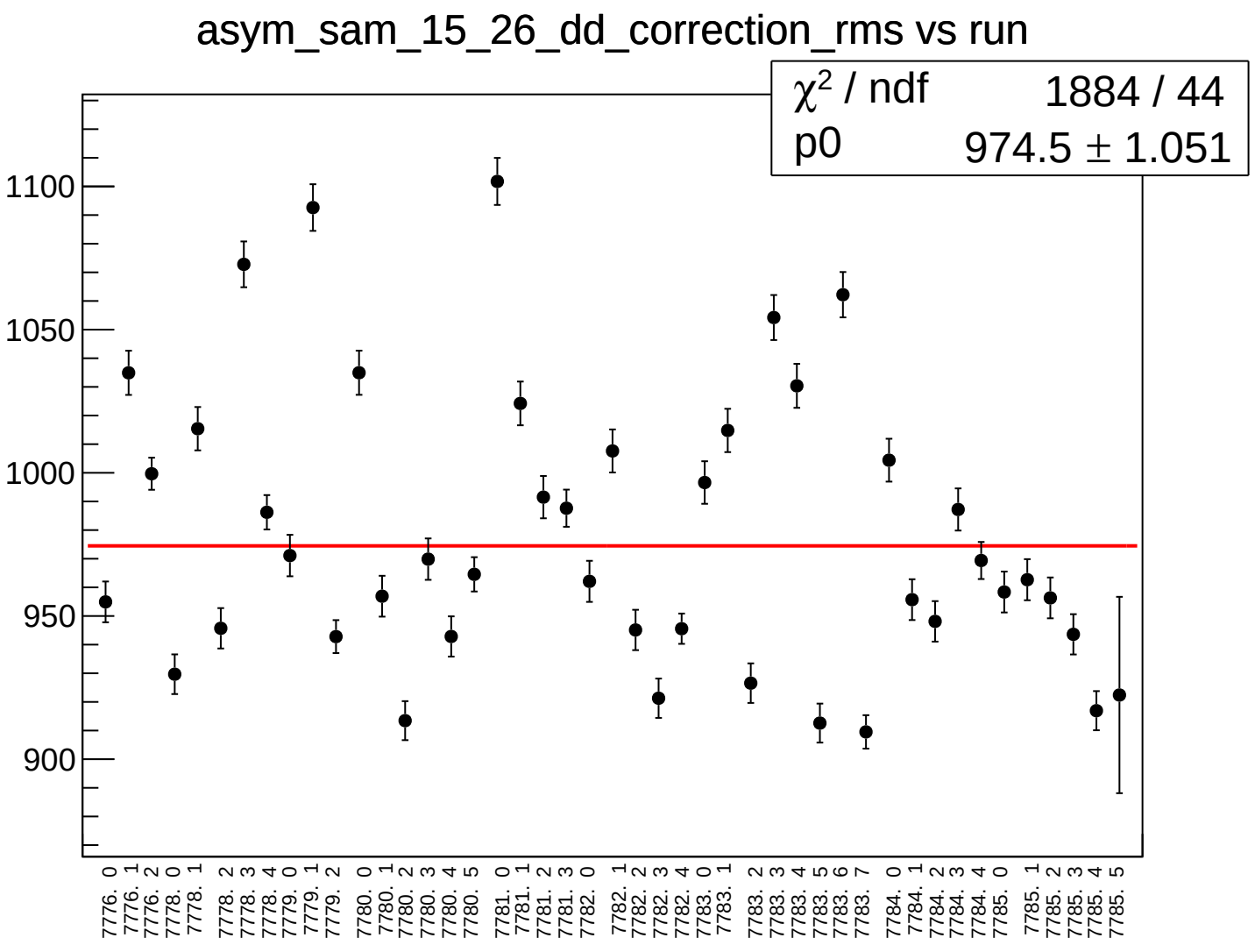

asym_sam_37_48_dd_rms vs run
χ² / ndf 528.1 / 44
p0 374.2 ± 0.4031
400
390
380
370
360
350
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

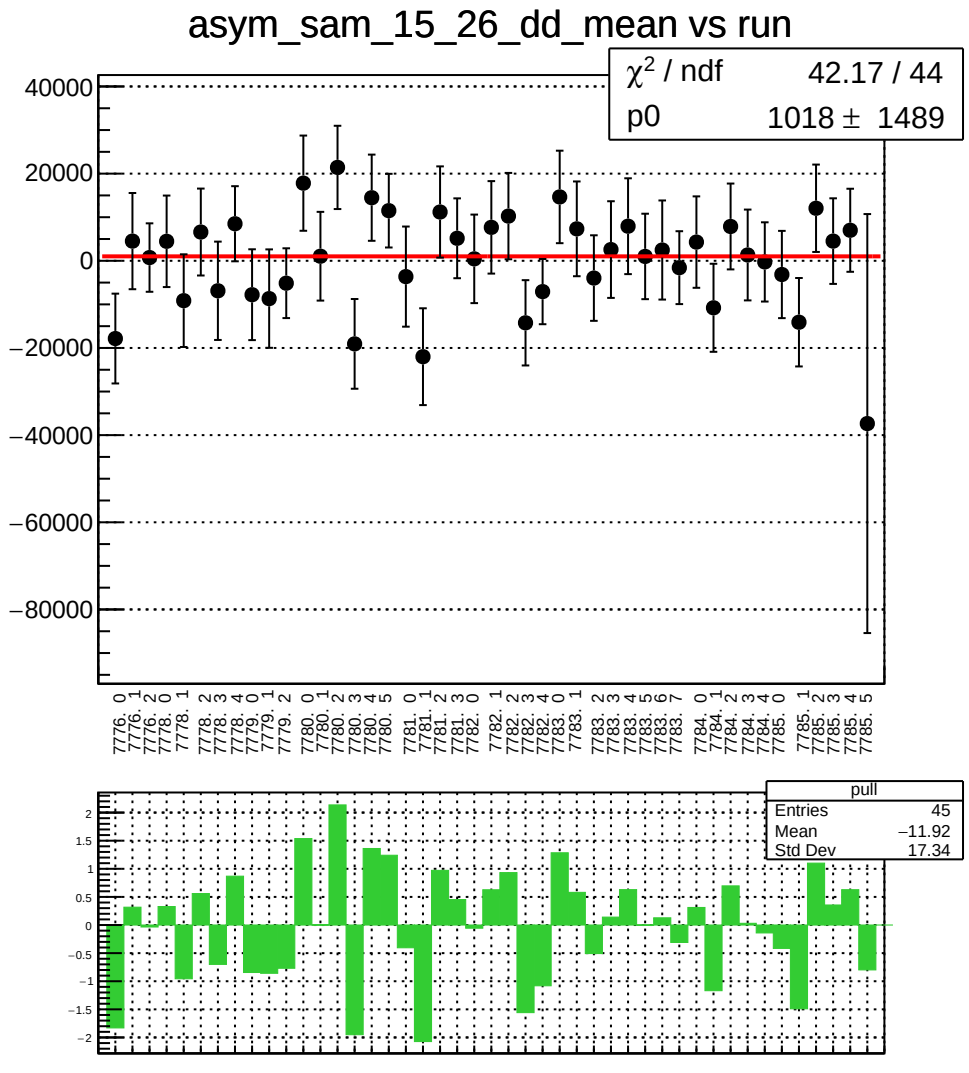

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 35.37 / 44
p0 −10.05 ± 154
4000
2000
0
−2000
−4000
−6000
−8000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −537.6
Std Dev 562.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.003654
Std Dev 0.8865
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

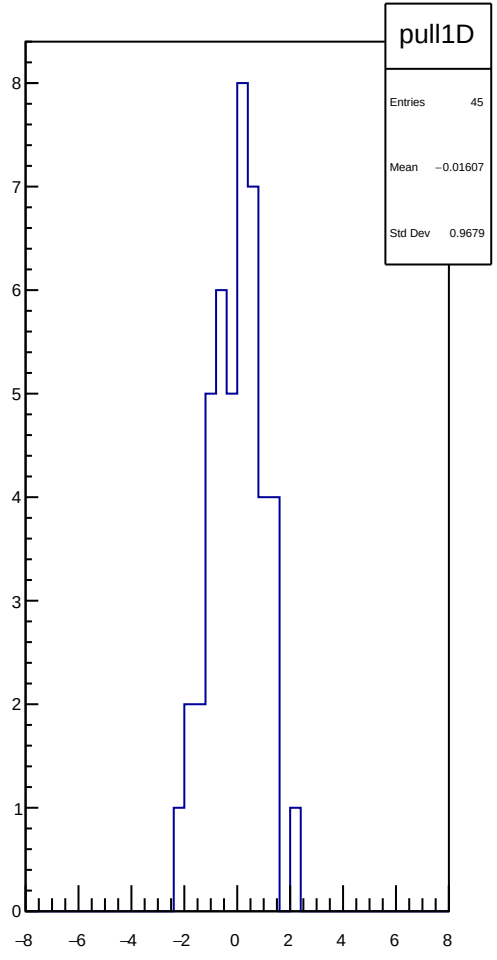

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2196 / 44
p0 101 ± 0.1089
130
120
110
100
90
80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

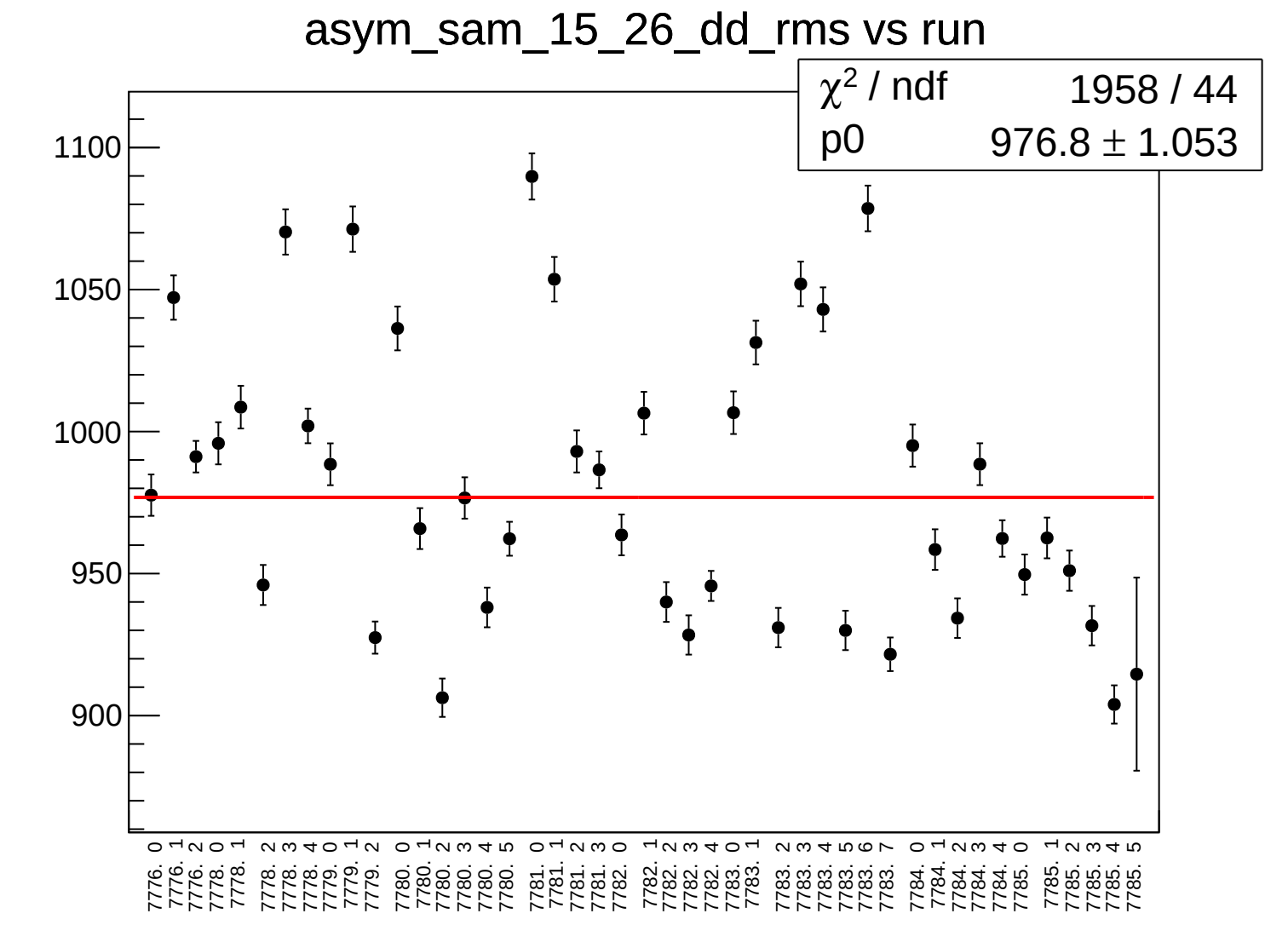

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 44.5 / 44
p0 −1016 ± 1486
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0.6886
Std Dev 33.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

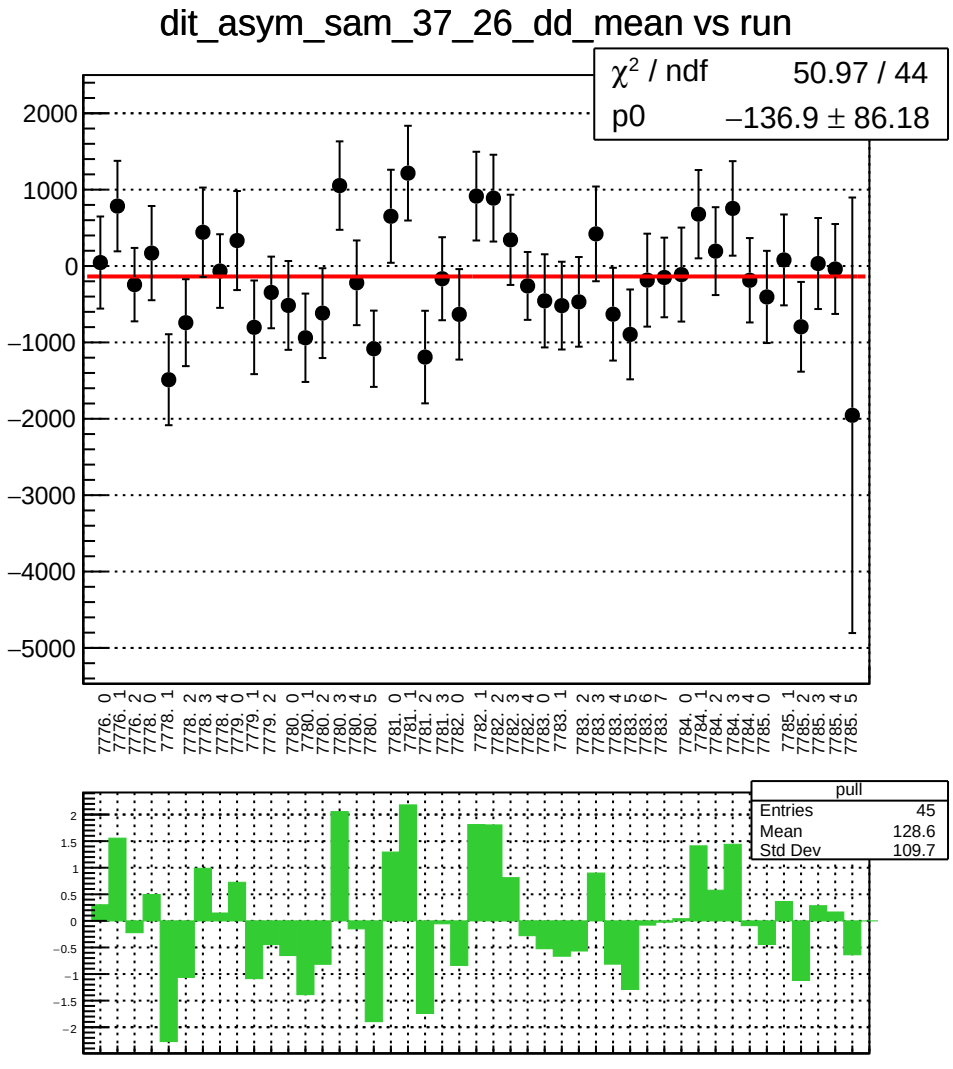

pull1D
Entries 45
Mean 0.01513
Std Dev 0.9943
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

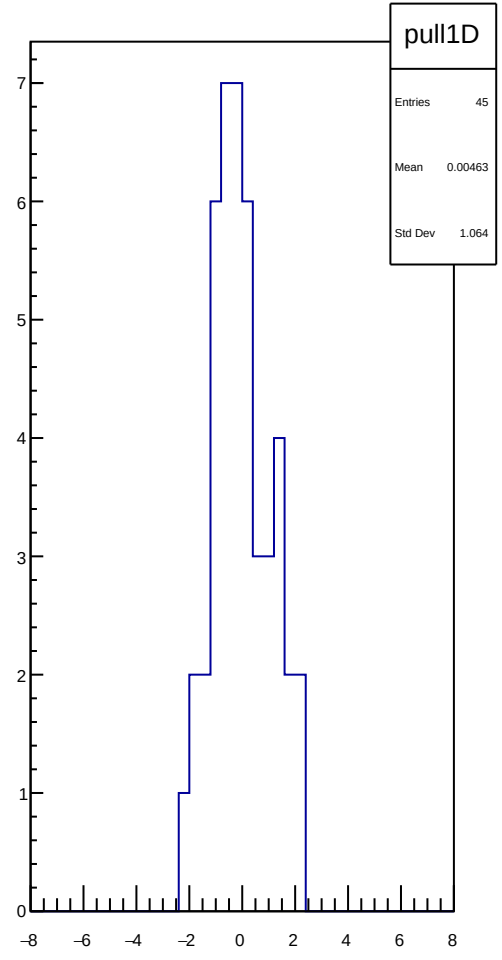

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1884 / 44
p0 974.5 ± 1.051
1100
1050
1000
950
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

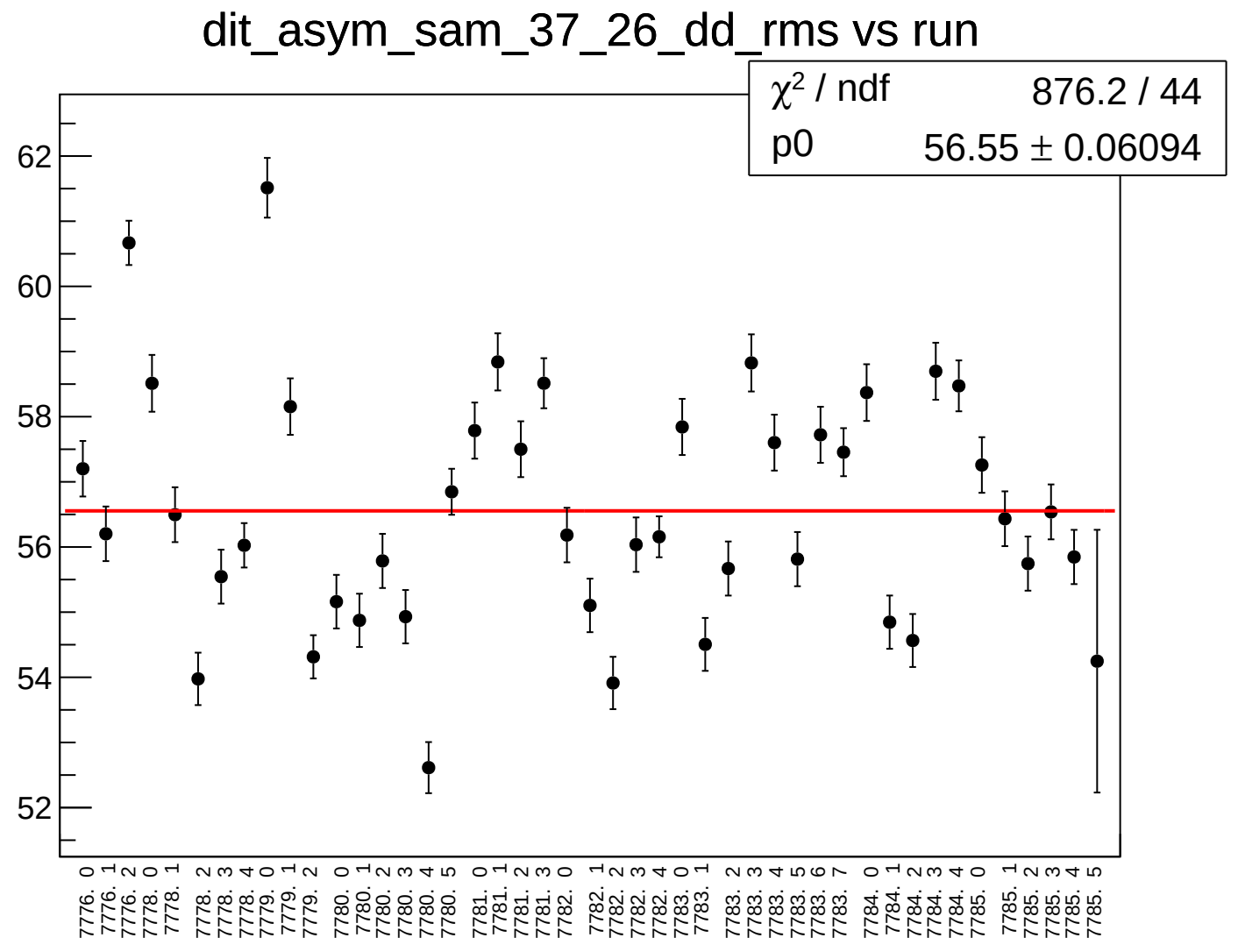

asym_sam_15_26_dd_mean vs run
χ² / ndf 42.17 / 44
p0 1018 ± 1489
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −11.92
Std Dev 17.34
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

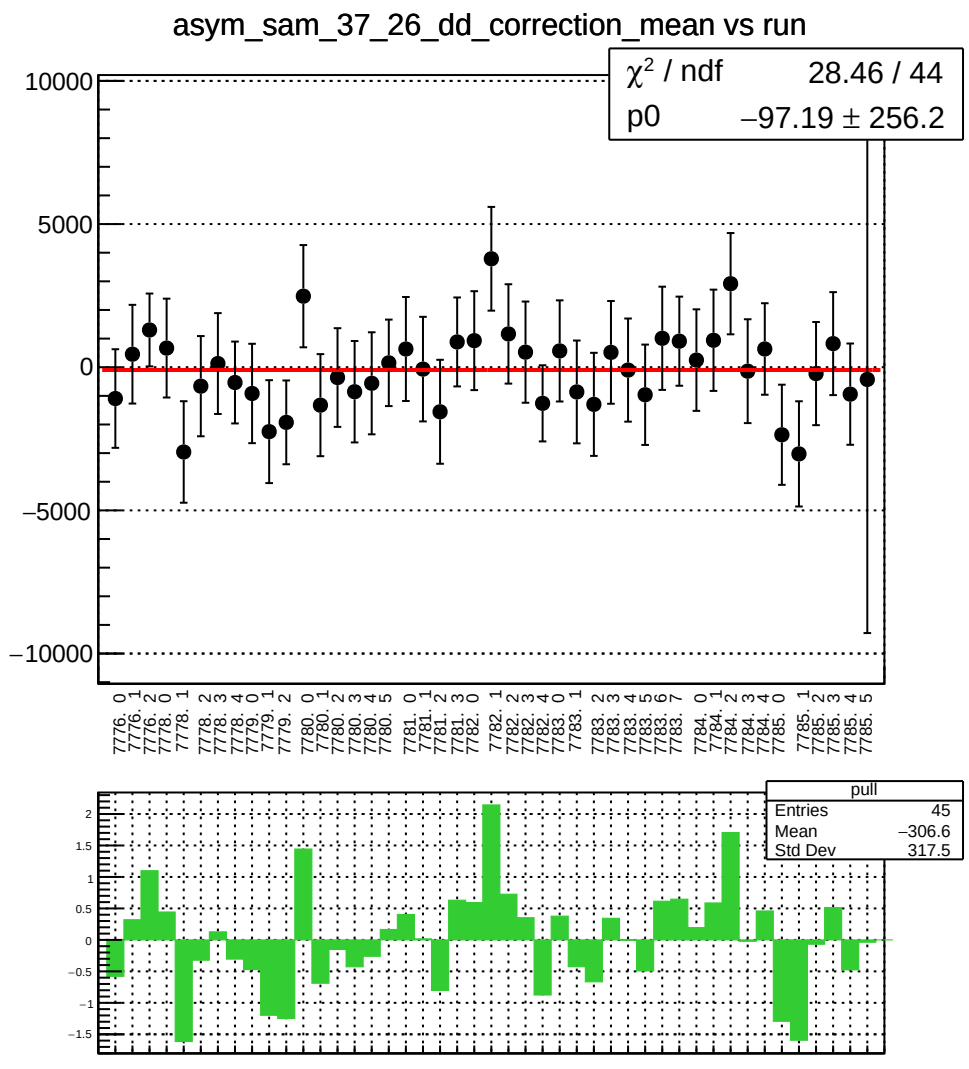

pull1D
Entries 45
Mean −0.01607
Std Dev 0.9679
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

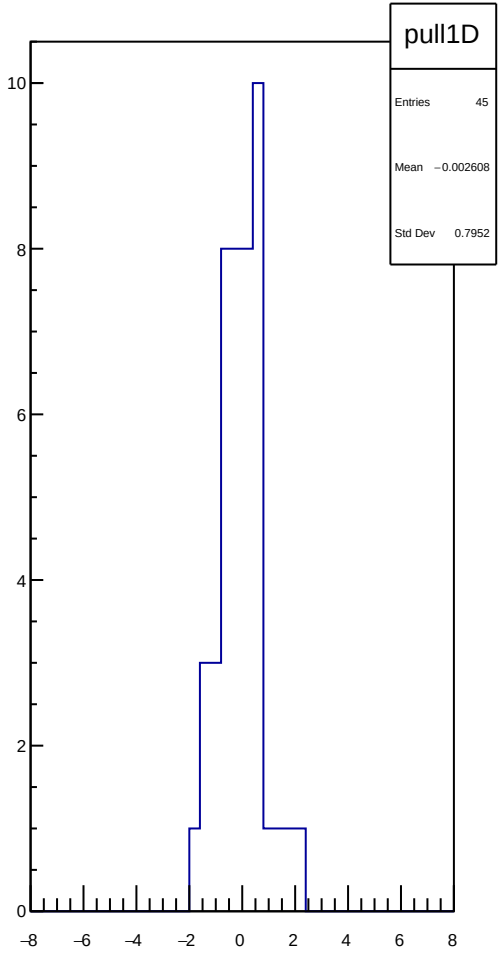

asym_sam_15_26_dd_rms vs run
χ² / ndf 1958 / 44
p0 976.8 ± 1.053
1100
1050
1000
950
900
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

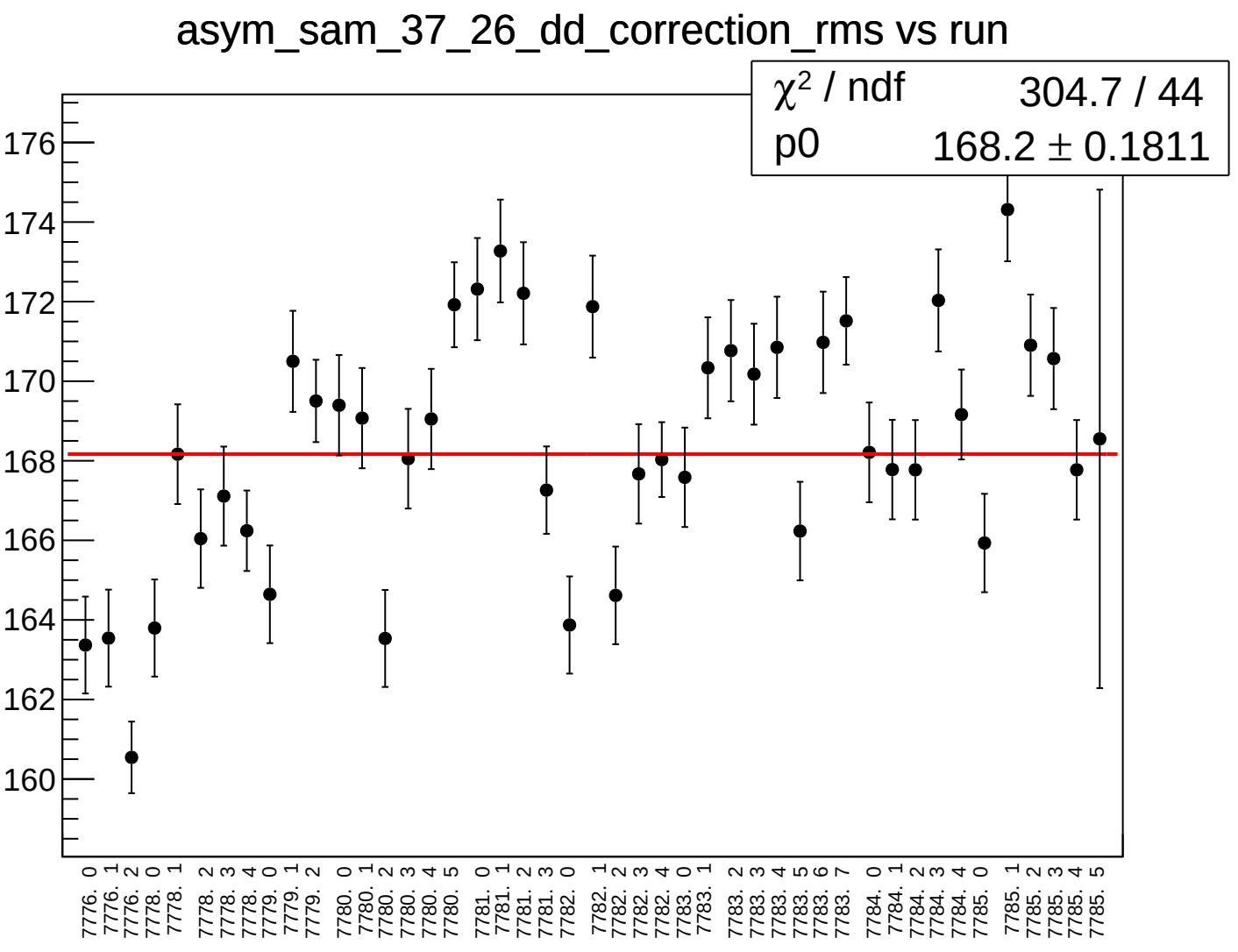

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 50.97 / 44
p0 −136.9 ± 86.18
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7776. 0
7776. 1
7776. 2
7776. 0
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 128.6
Std Dev 109.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

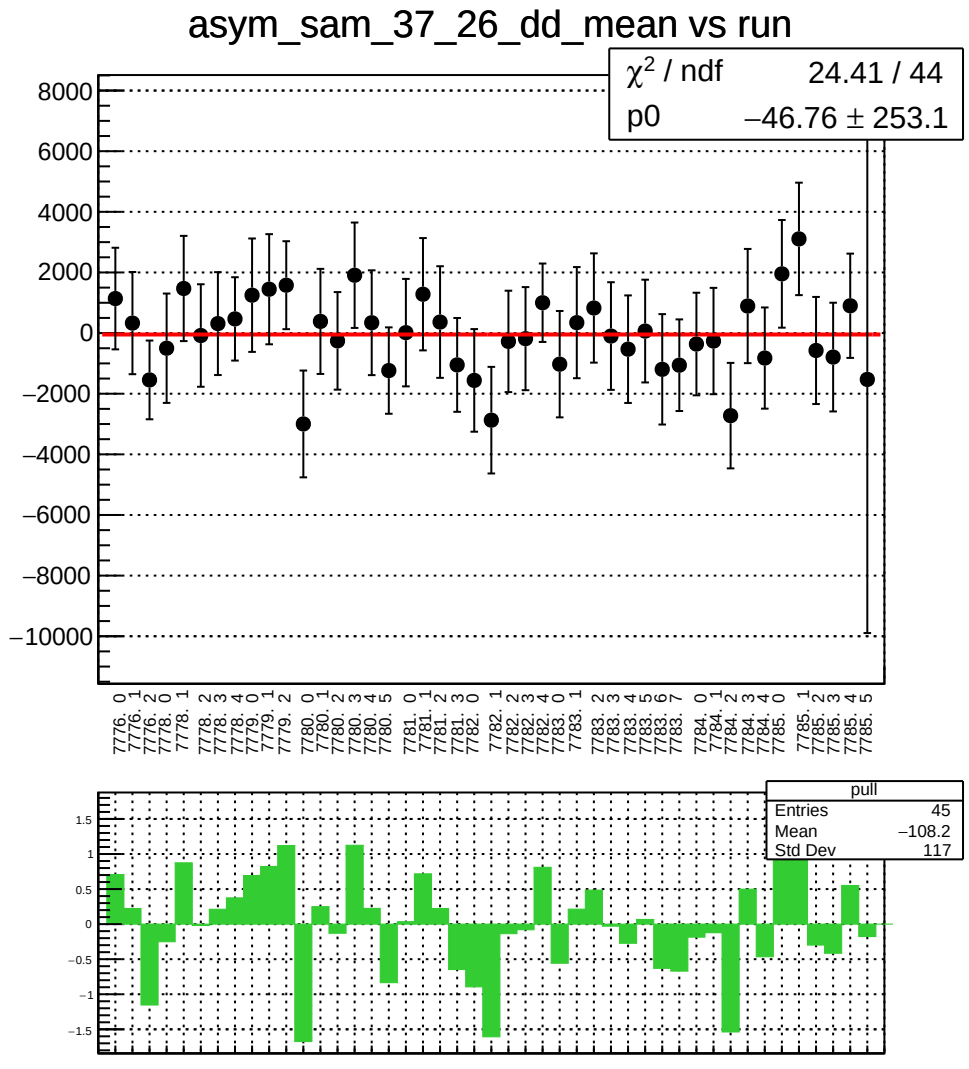

pull1D
Entries 45
Mean 0.00463
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

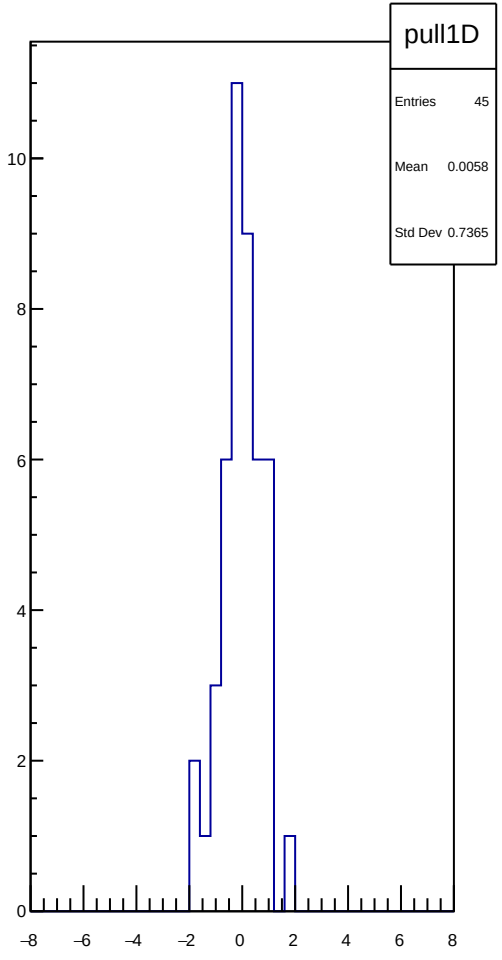

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 876.2 / 44
p0 56.55 ± 0.06094
62
60
58
56
54
52
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

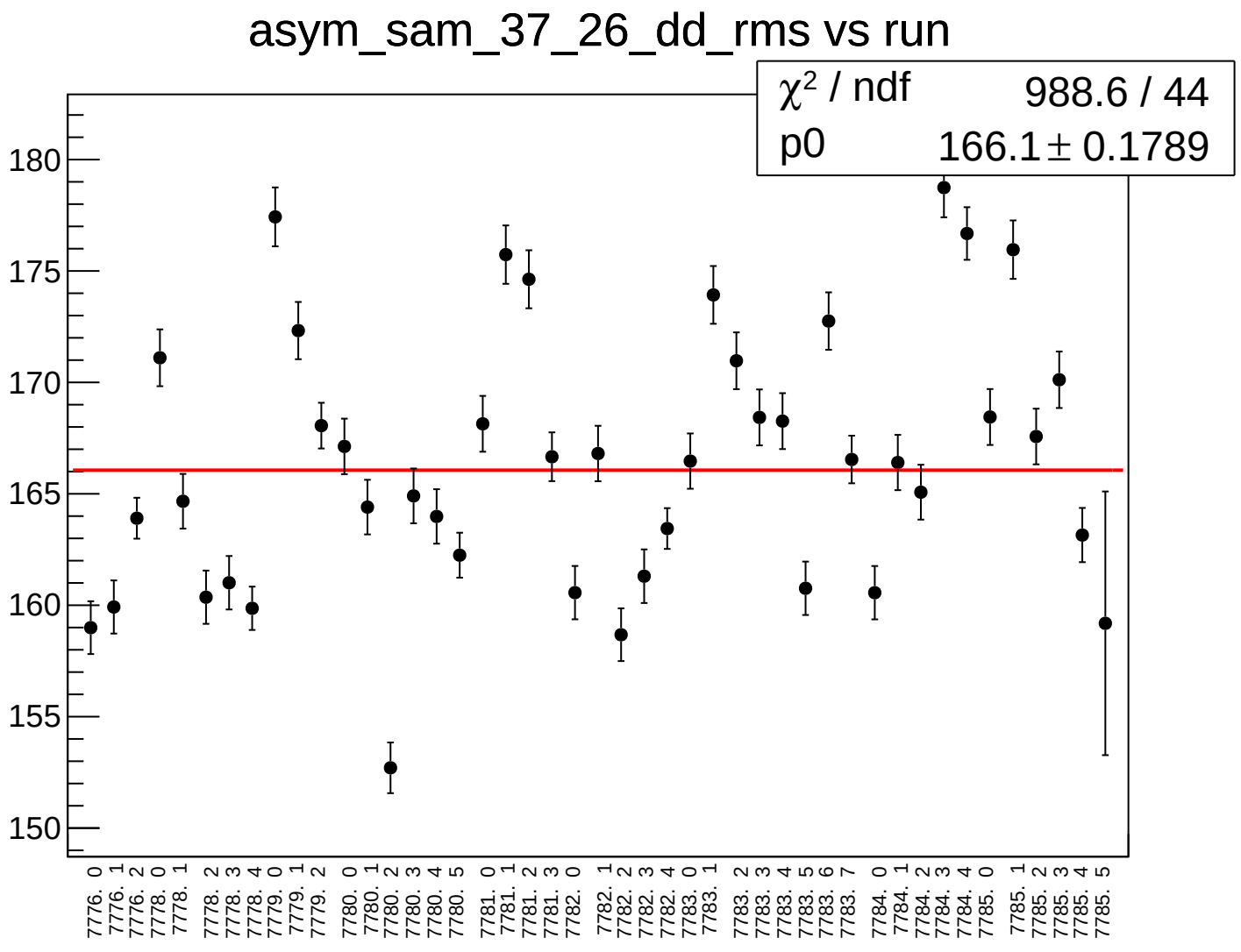

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 28.46 / 44
p0 −97.19 ± 256.2
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −306.6
Std Dev 317.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

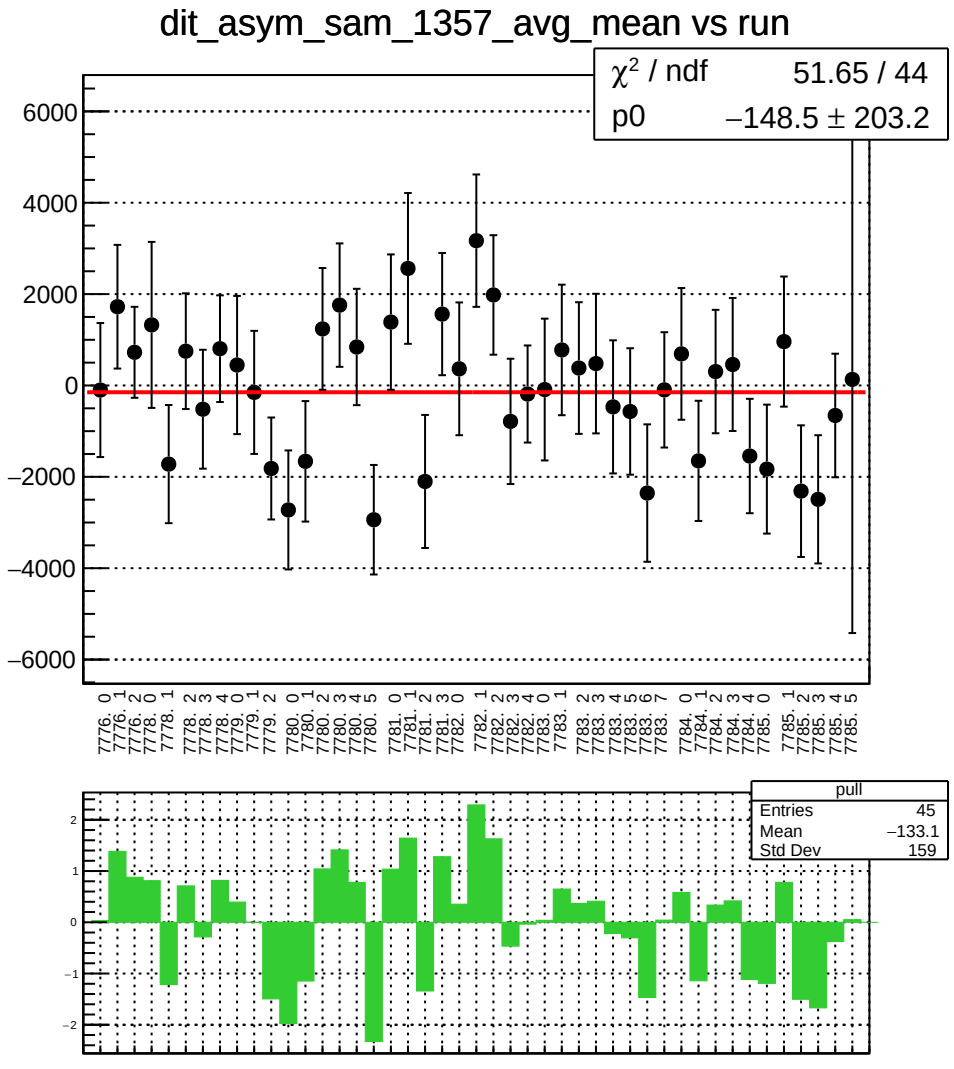

pull1D
Entries 45
Mean −0.002608
Std Dev 0.7952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

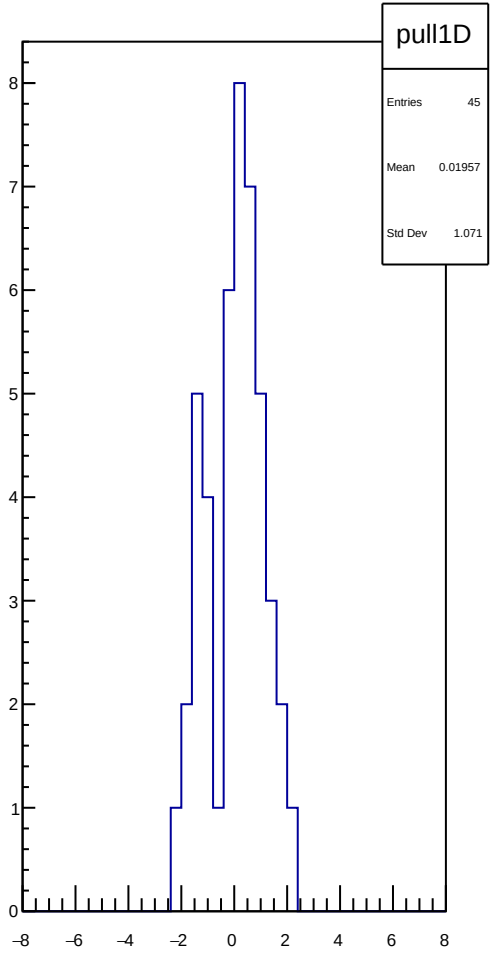

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 304.7 / 44
p0 168.2 ± 0.1811
176
174
172
170
168
166
164
162
160
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

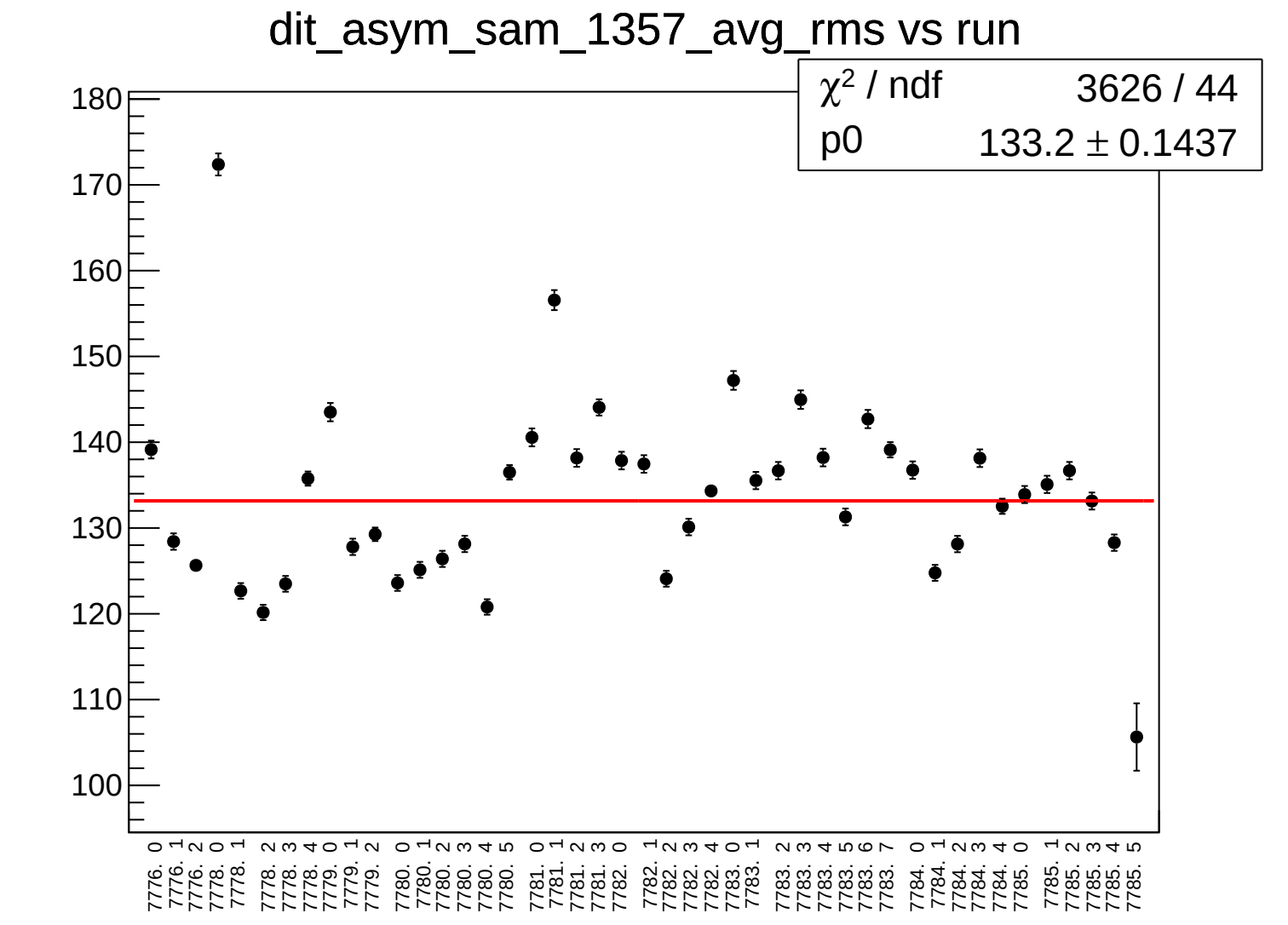

asym_sam_37_26_dd_mean vs run
χ² / ndf 24.41 / 44
p0 −46.76 ± 253.1
pull
Entries 45
Mean −108.2
Std Dev 117

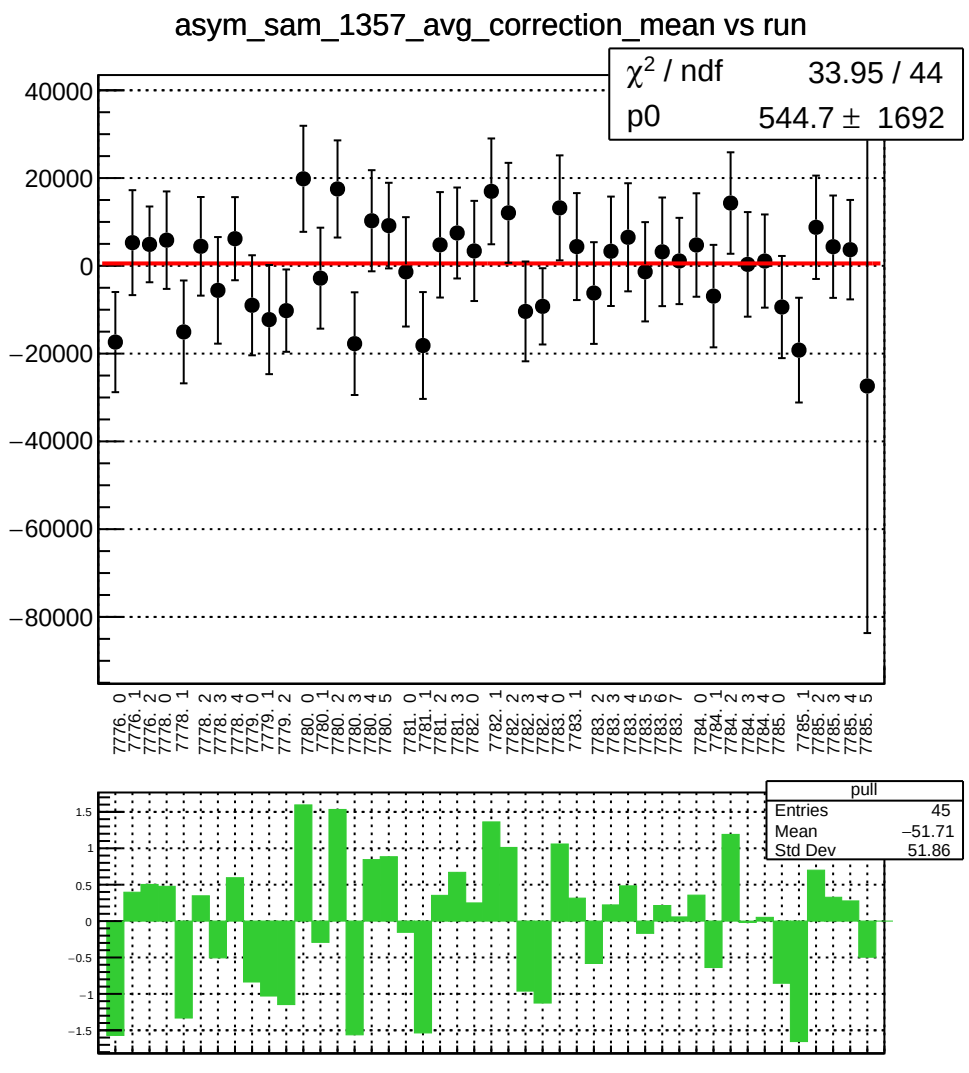

pull1D
Entries 45
Mean 0.0058
Std Dev 0.7365

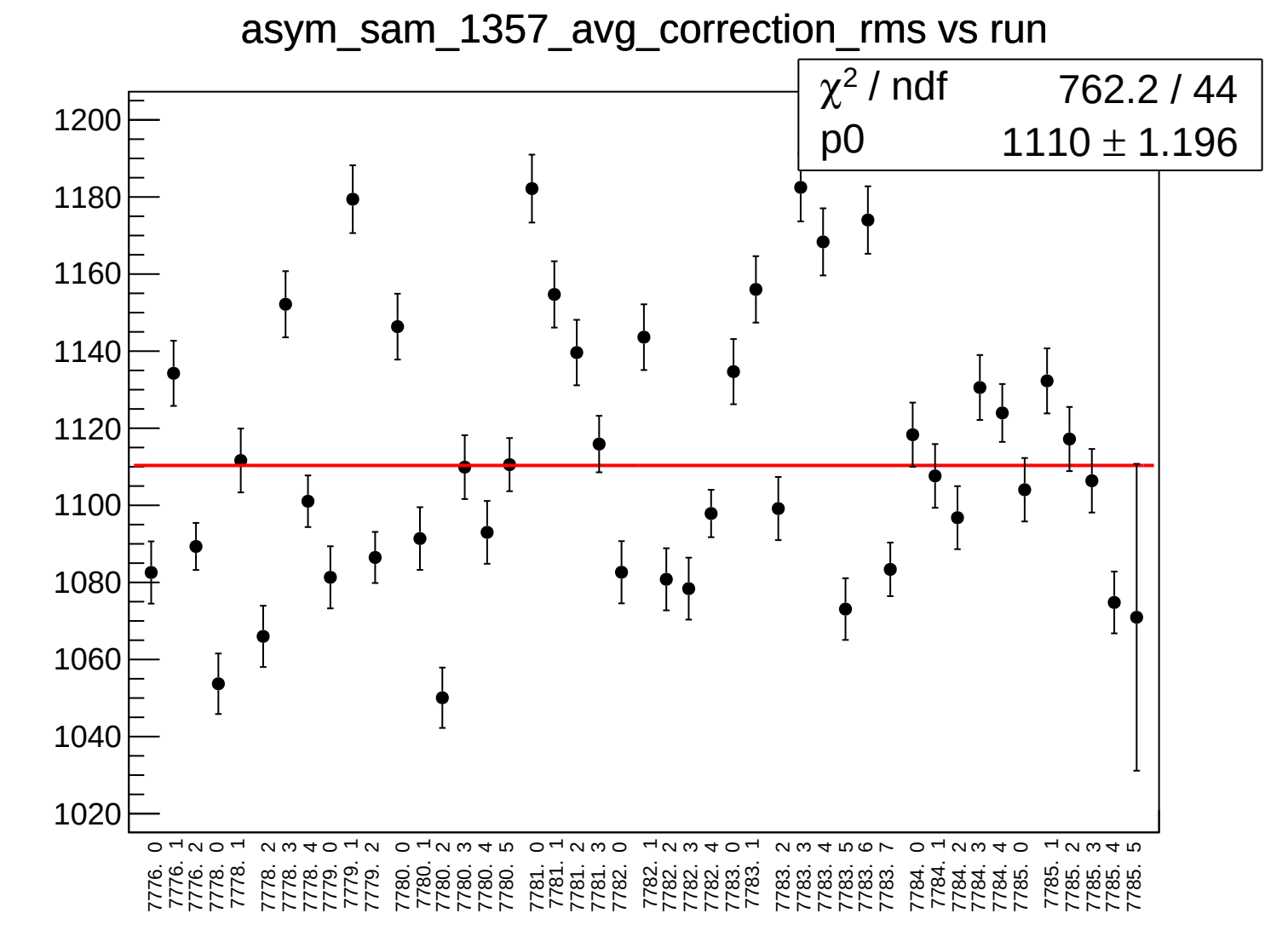

asym_sam_37_26_dd_rms vs run
χ² / ndf 988.6 / 44
p0 166.1 ± 0.1789
180
175
170
165
160
155
150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

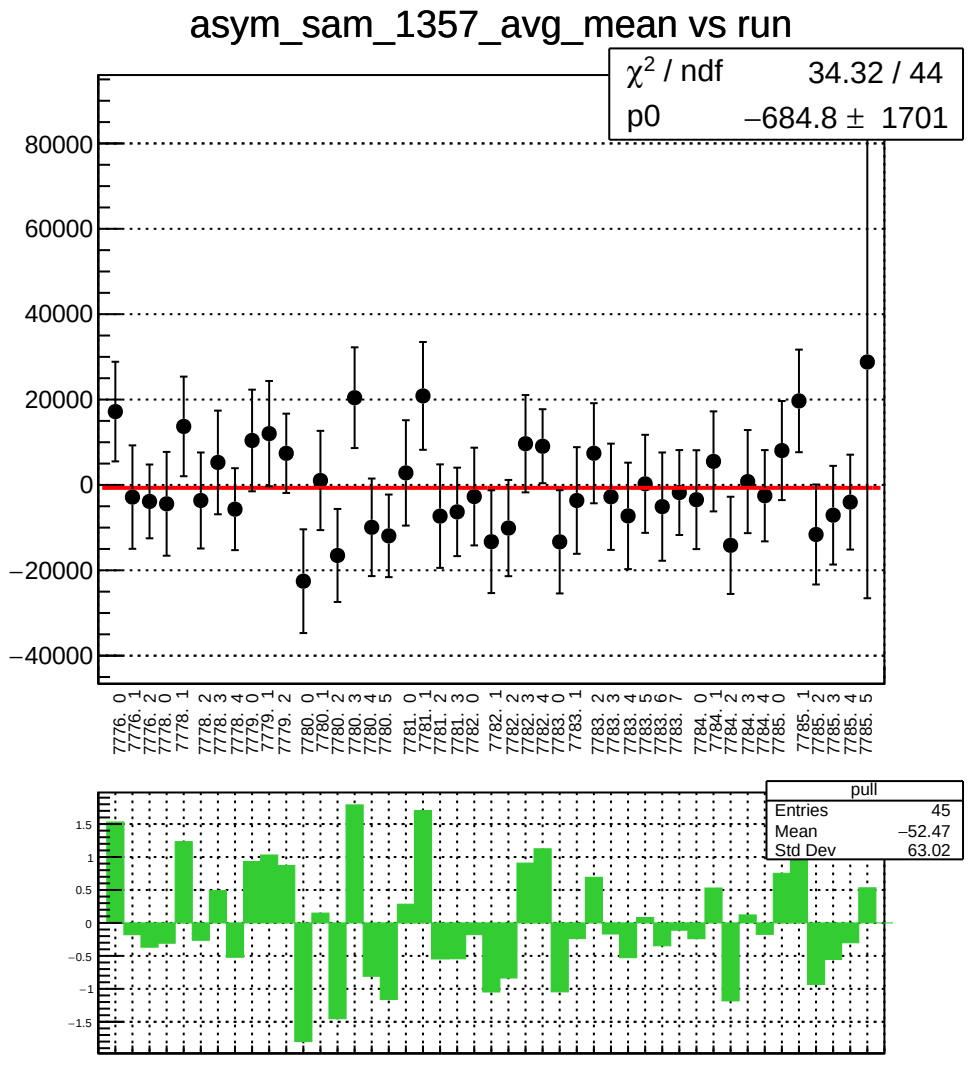

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 51.65 / 44
p0 −148.5 ± 203.2
6000
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −133.1
Std Dev 159
2
1
0
−1
−2

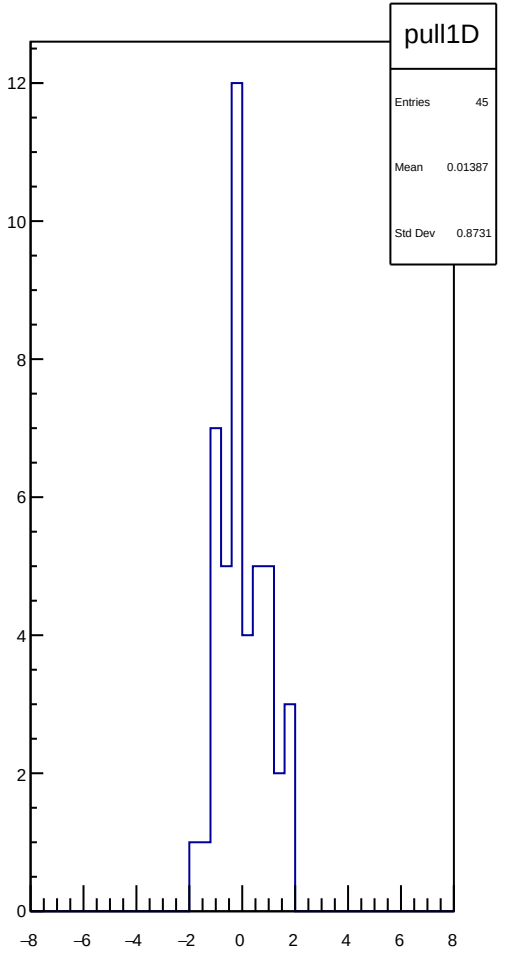

pull1D
Entries 45
Mean 0.01957
Std Dev 1.071
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

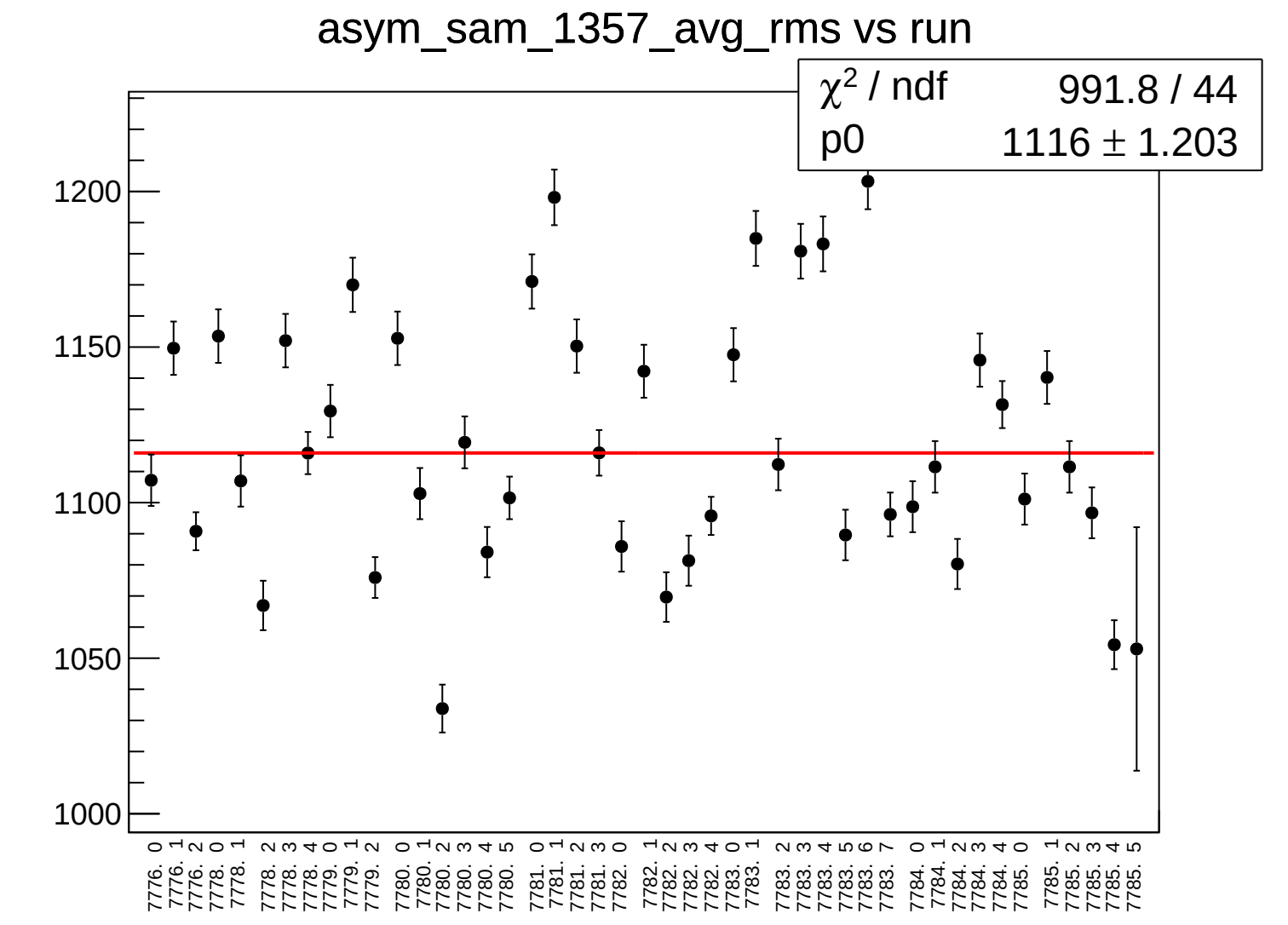

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 3626 / 44
p0 133.2 ± 0.1437
180
170
160
150
140
130
120
110
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

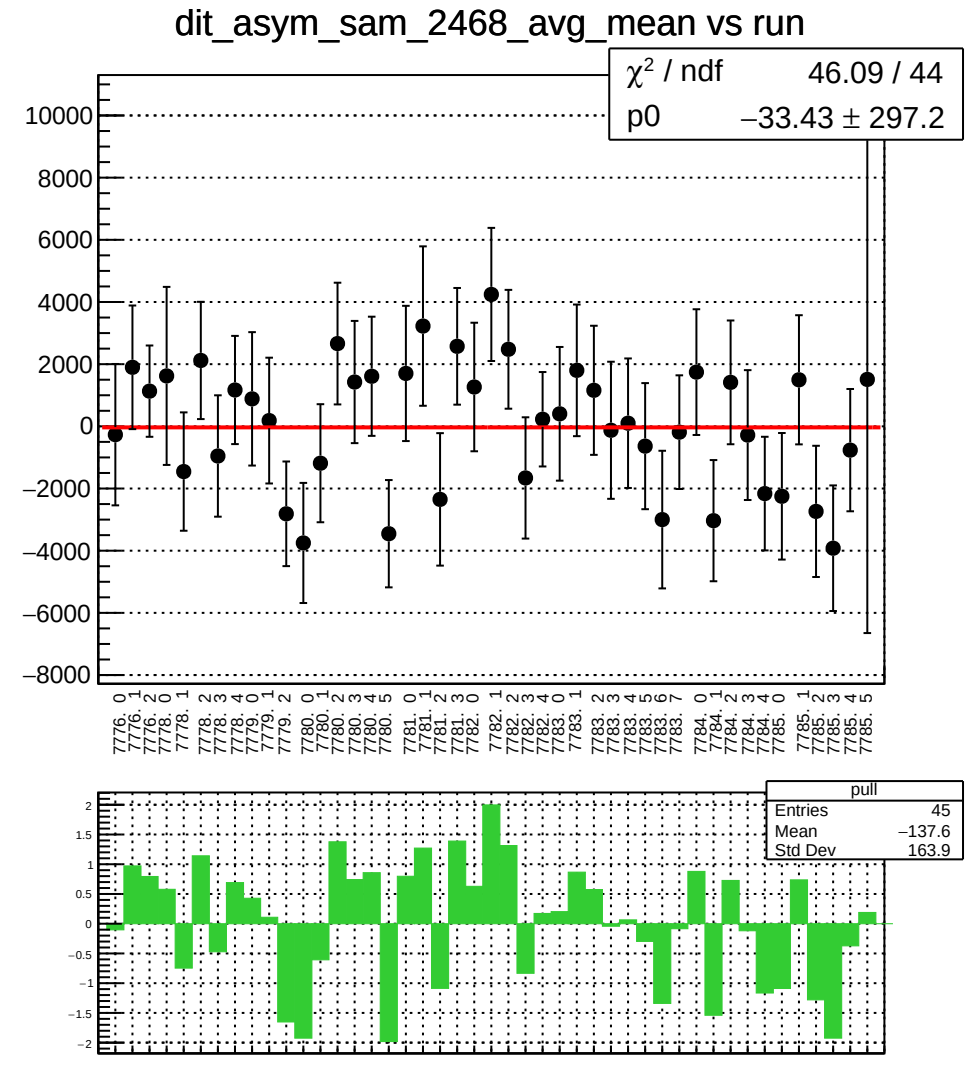

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 33.95 / 44
p0 544.7 ± 1692
40000
20000
0
−20000
−40000
−60000
−80000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −51.71
Std Dev 51.86
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.008565
Std Dev 0.8685
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

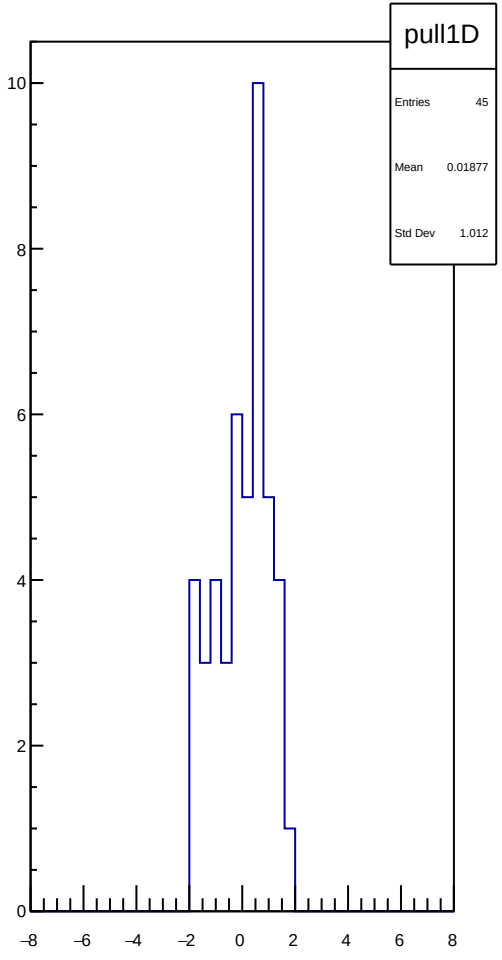

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 762.2 / 44
p0 1110 ± 1.196
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

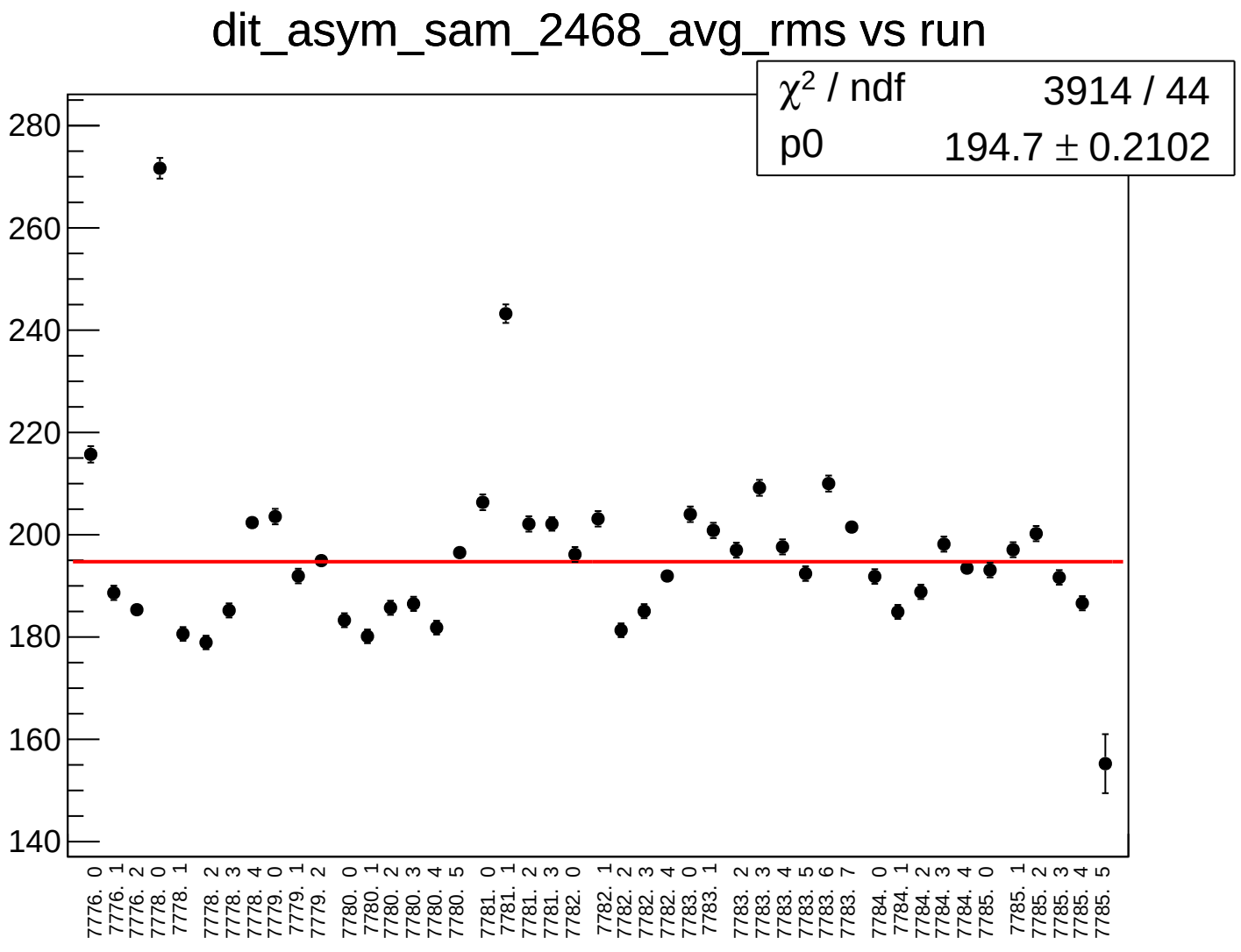

asym_sam_1357_avg_mean vs run
χ² / ndf 34.32 / 44
p0 −684.8 ± 1701
80000
60000
40000
20000
0
−20000
−40000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −52.47
Std Dev 63.02
1.5
1
0.5
0
−0.5
−1
−1.5

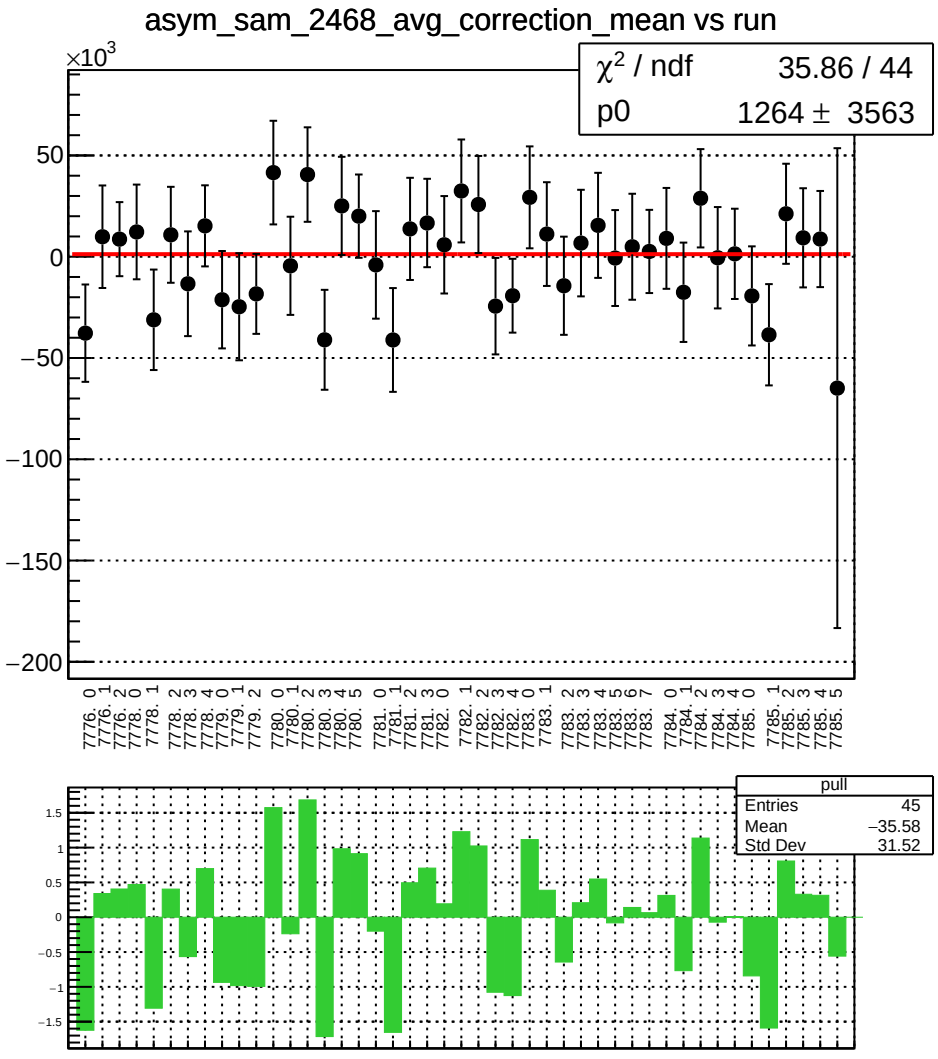

pull1D
Entries 45
Mean 0.01387
Std Dev 0.8731
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

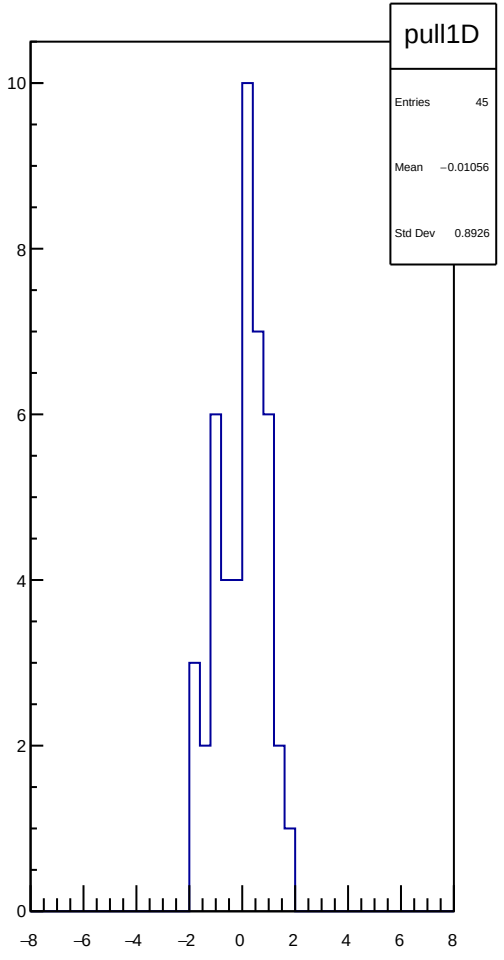

asym_sam_1357_avg_rms vs run
χ² / ndf 991.8 / 44
p0 1116 ± 1.203
1200
1150
1100
1050
1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

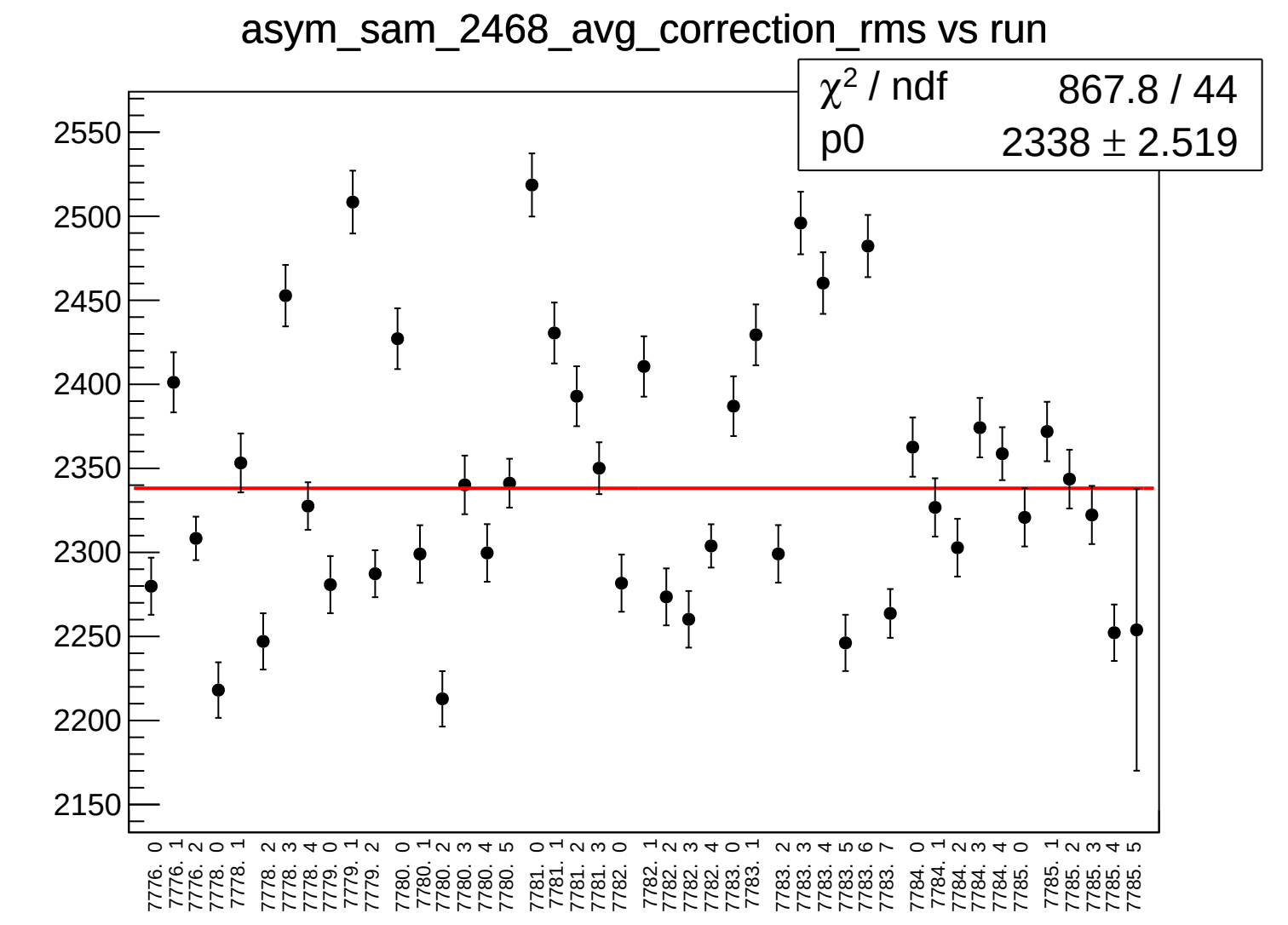

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 46.09 / 44
p0 −33.43 ± 297.2
pull
Entries 45
Mean −137.6
Std Dev 163.9

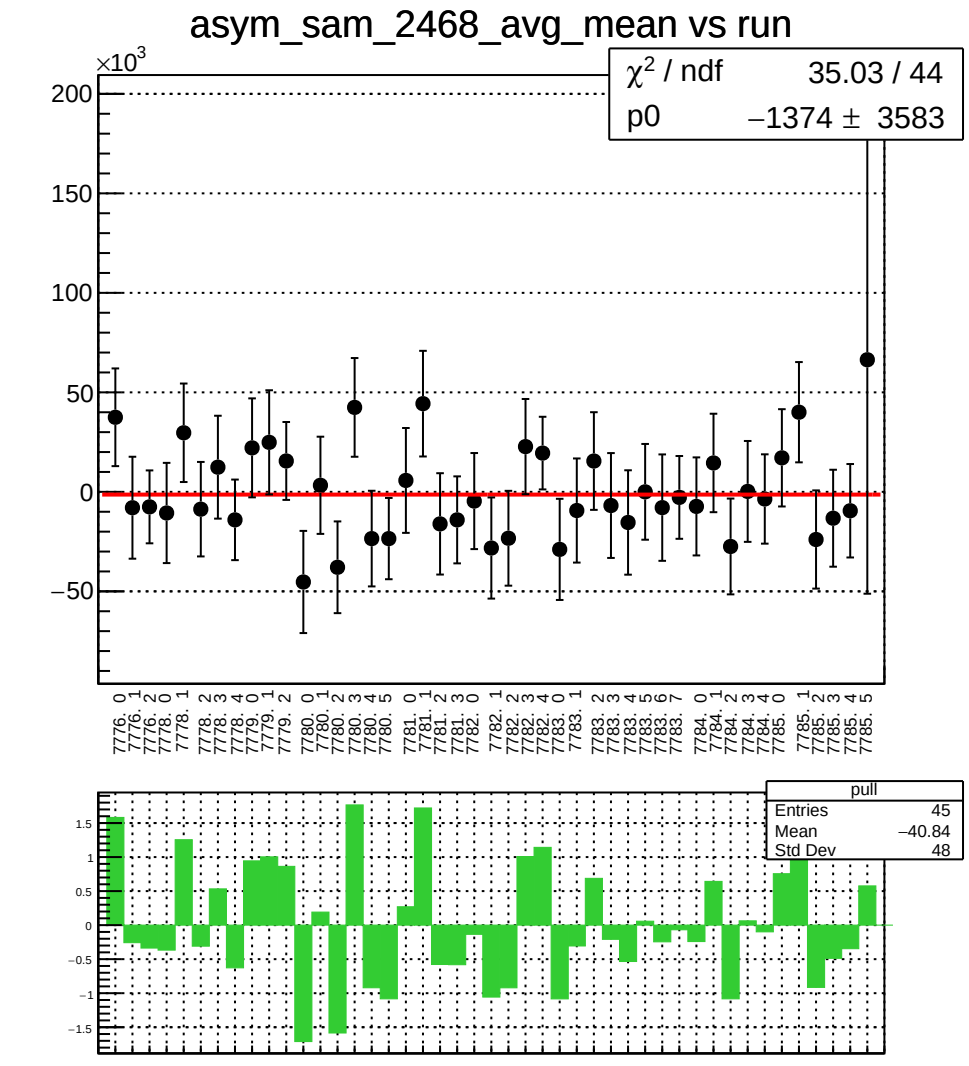

pull1D
Entries 45
Mean 0.01877
Std Dev 1.012

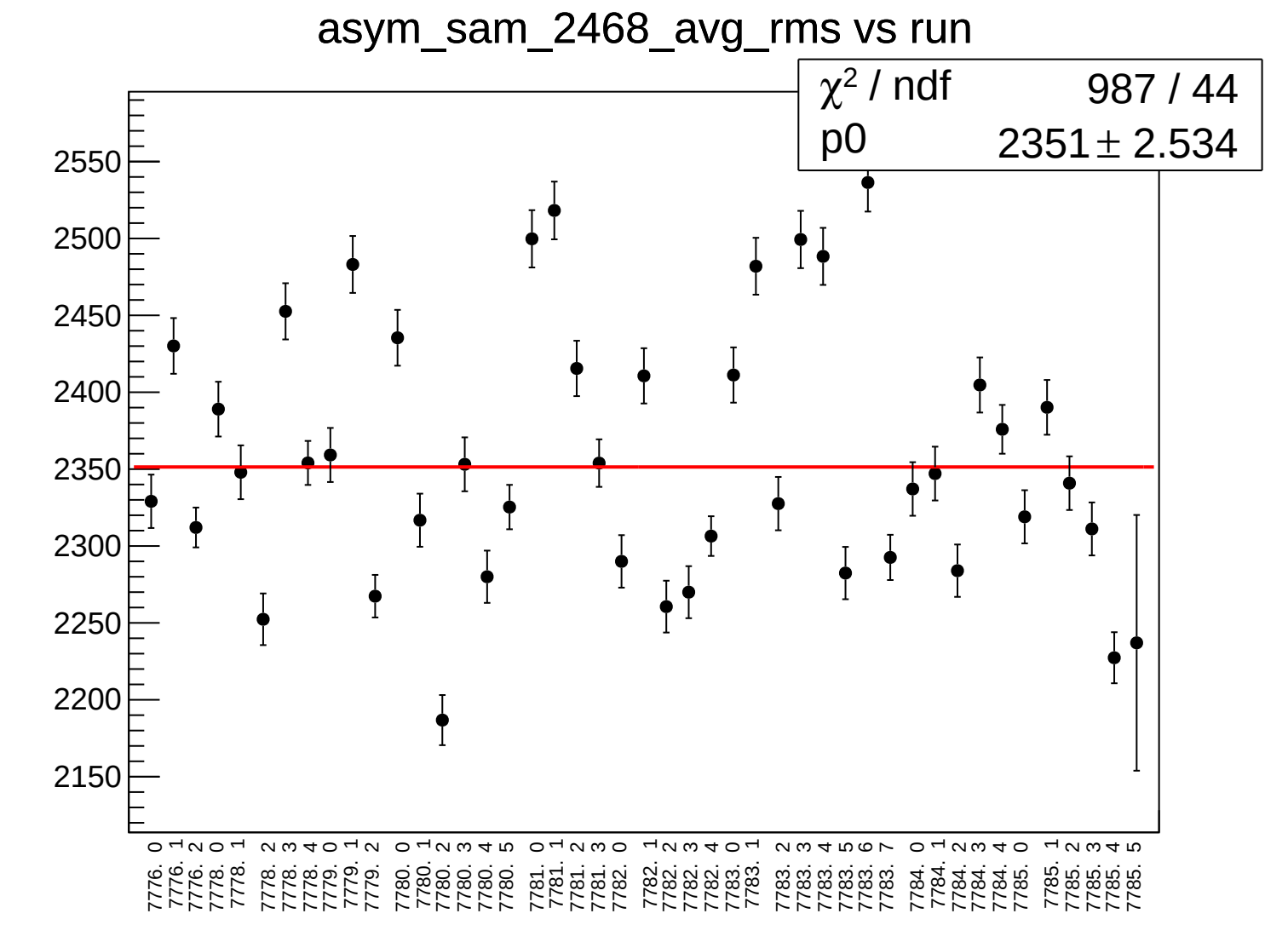

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3914 / 44
p0 194.7 ± 0.2102
280
260
240
220
200
180
160
140
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

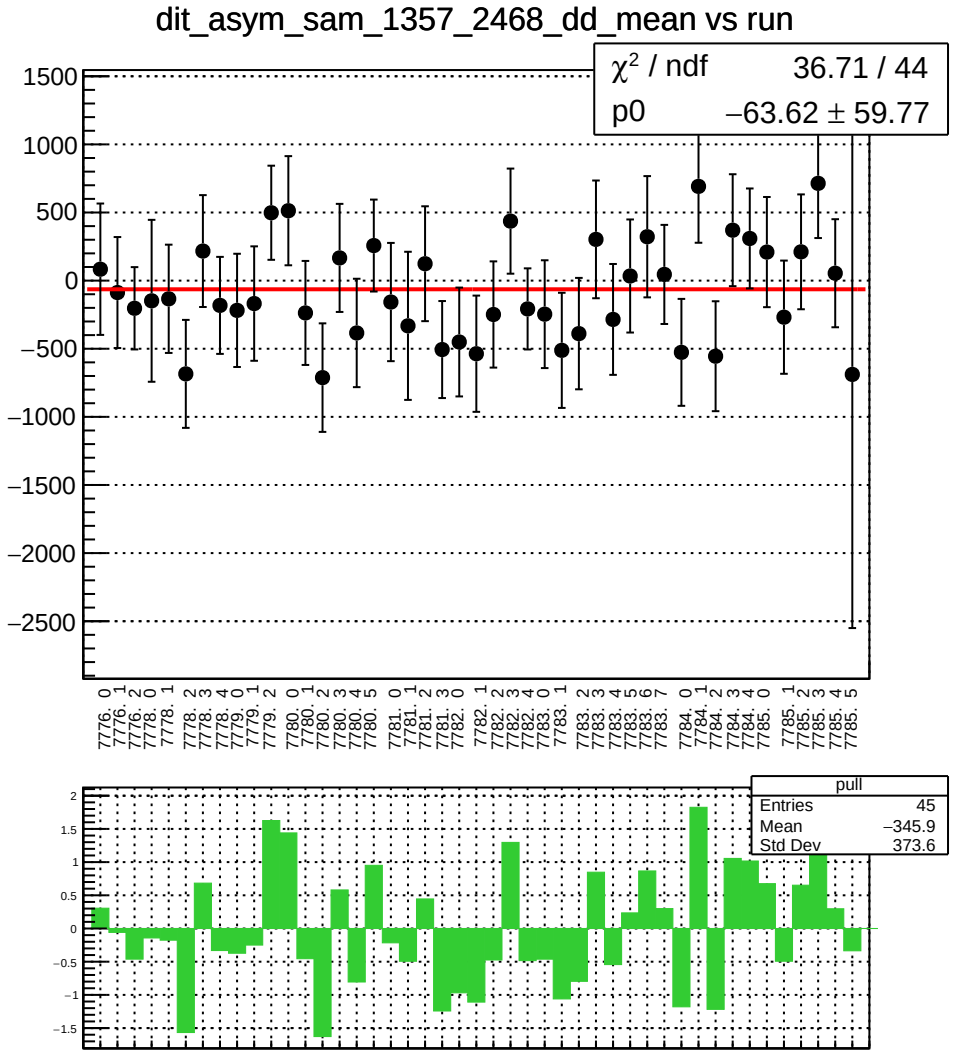

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 35.86 / 44
p0 1264 ± 3563
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −35.58
Std Dev 31.52
1.5
1
0.5
0
−0.5
−1
−1.5

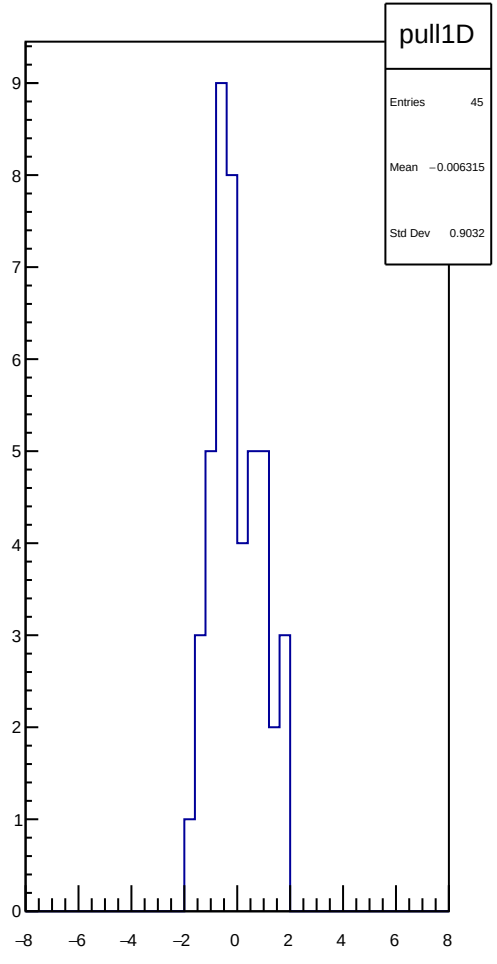

pull1D
Entries 45
Mean −0.01056
Std Dev 0.8926
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

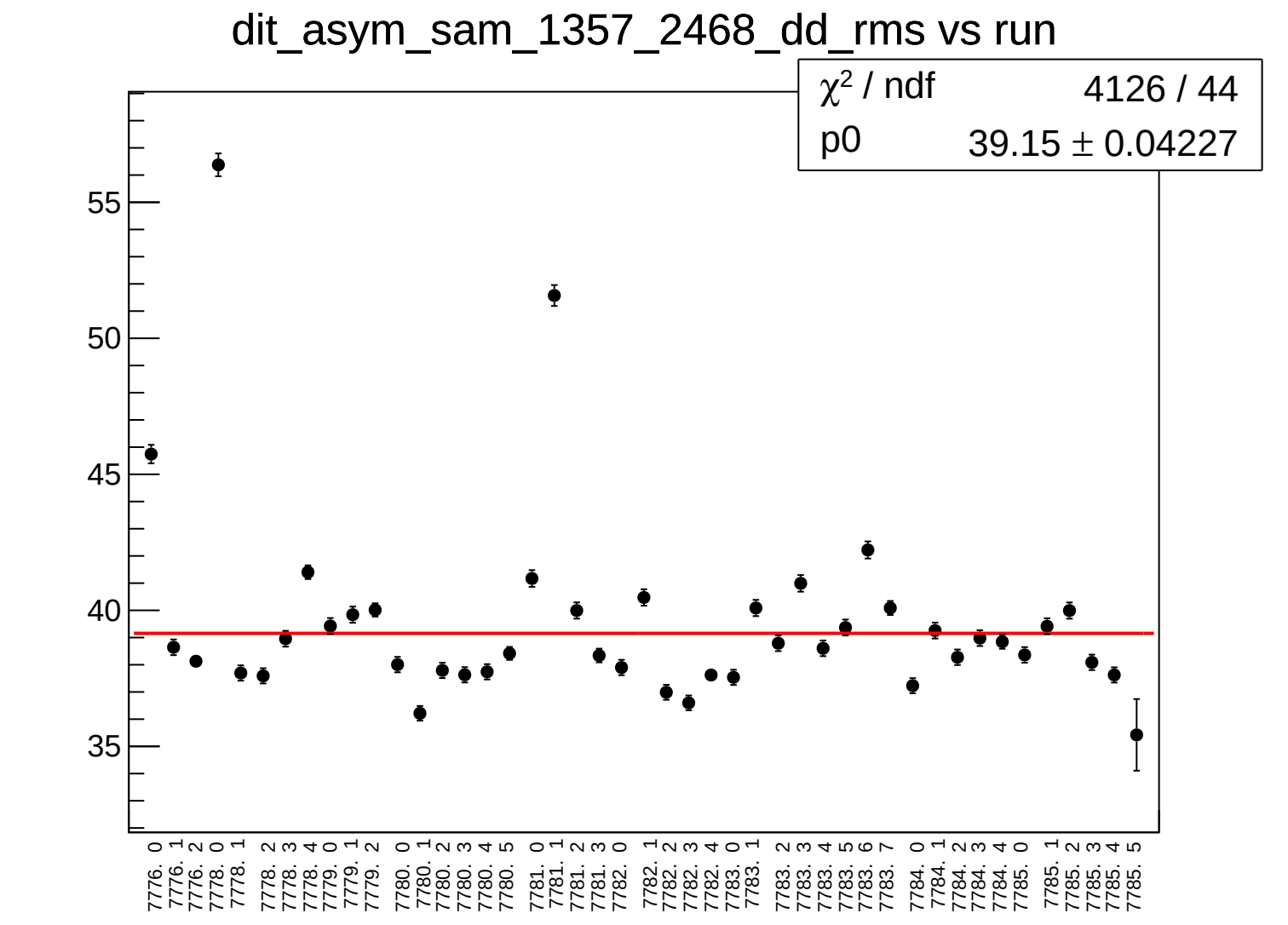

asym_sam_2468_avg_correction_rms vs run
χ^2 / ndf 867.8 / 44
p0 2338 ± 2.519
2550
2500
2450
2400
2350
2300
2250
2200
2150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

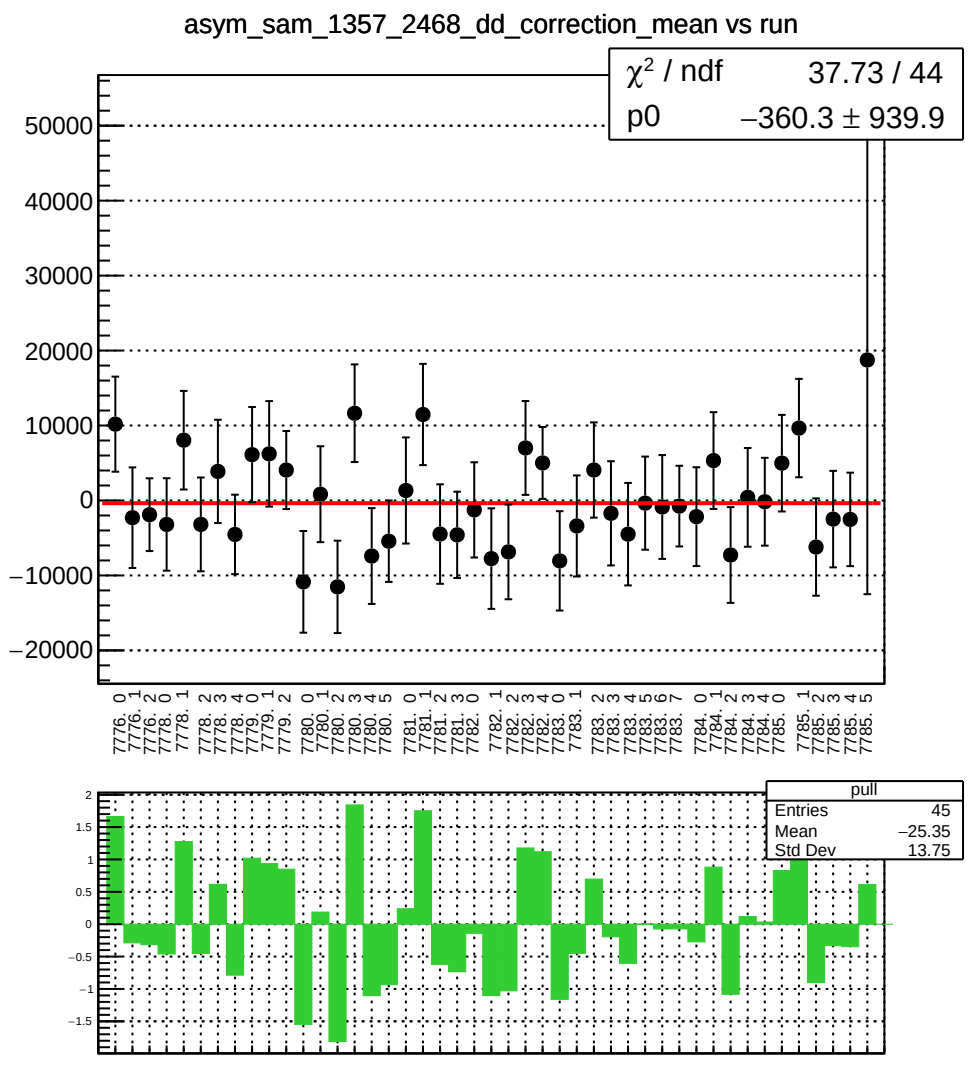

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 35.03 / 44
p0 −1374 ± 3583
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −40.84
Std Dev 48
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01377
Std Dev 0.8821
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

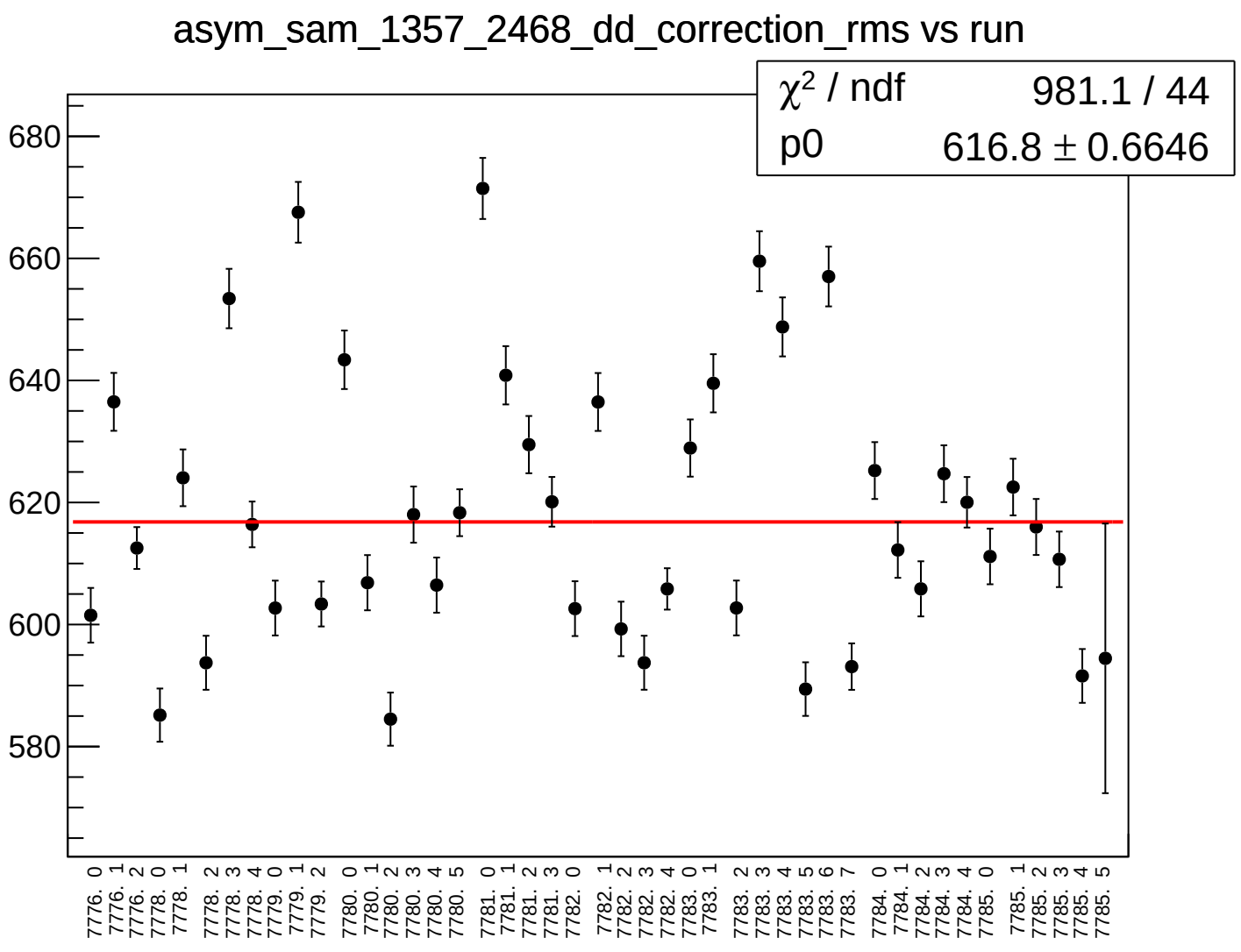

asym_sam_2468_avg_rms vs run
χ² / ndf 987 / 44
p0 2351 ± 2.534
2550
2500
2450
2400
2350
2300
2250
2200
2150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

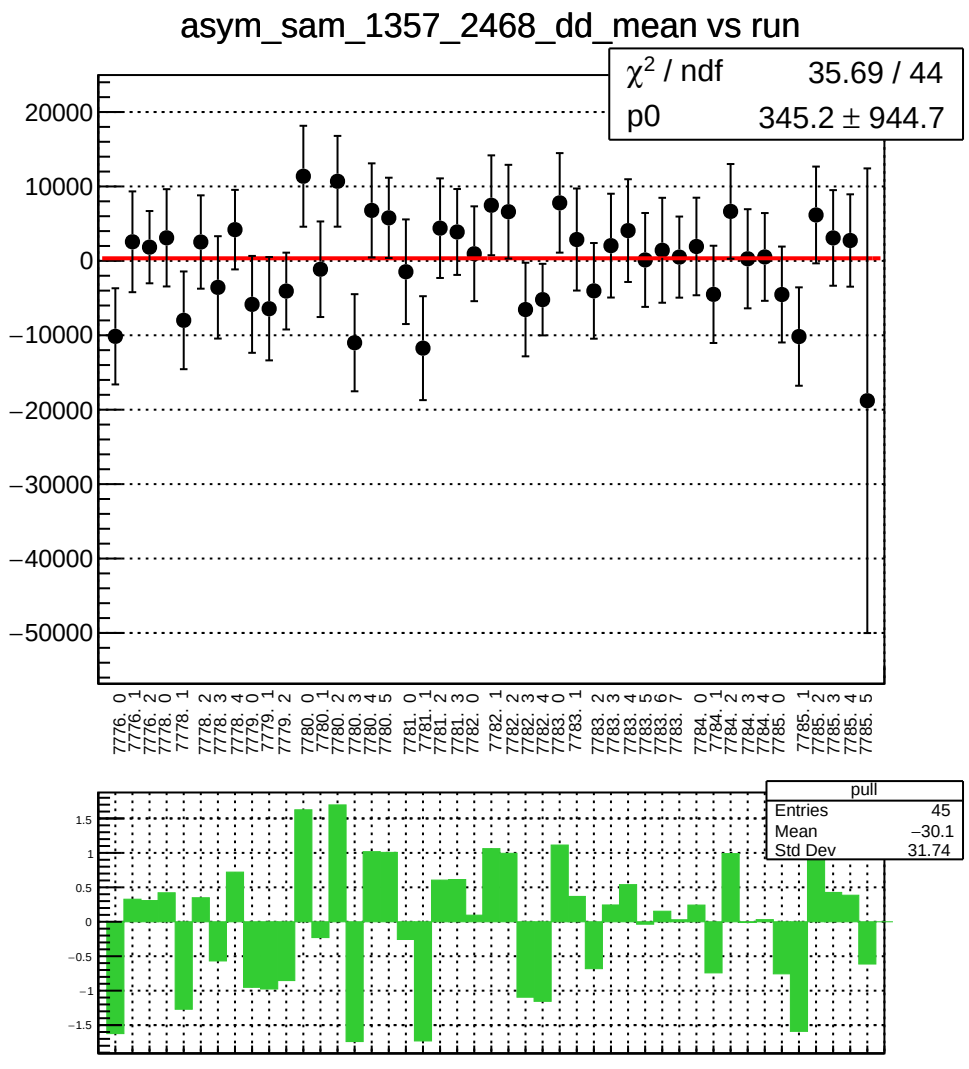

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 36.71 / 44
p0 −63.62 ± 59.77
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −345.9
Std Dev 373.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

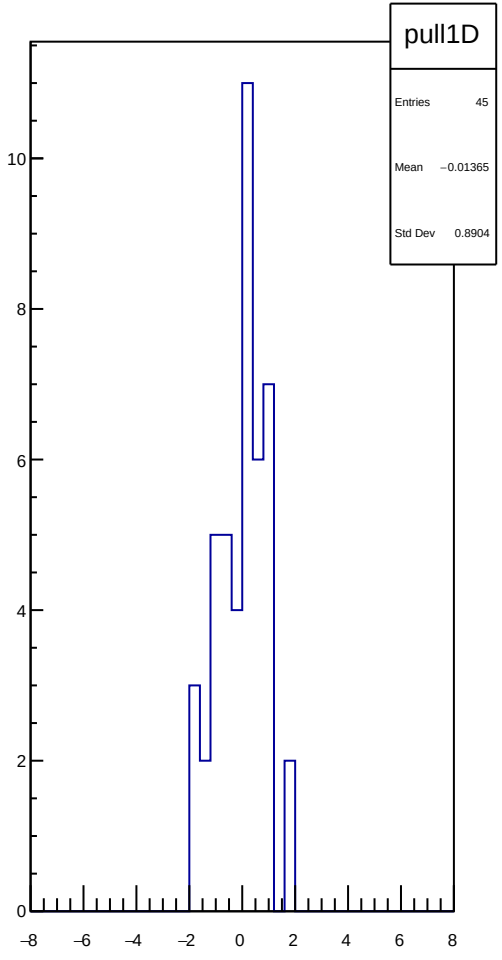

pull1D
Entries 45
Mean −0.006315
Std Dev 0.9032
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

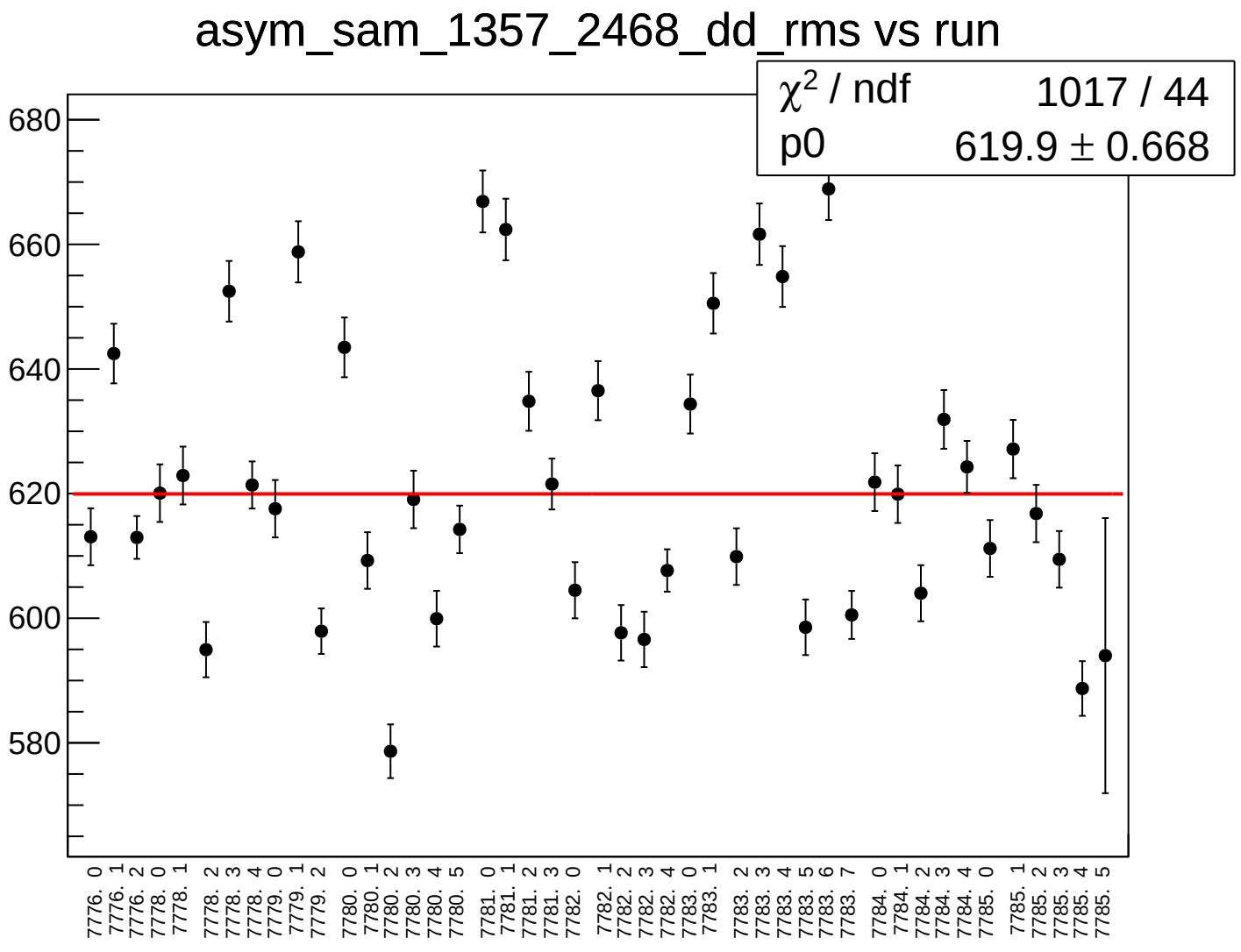

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4126 / 44
p0 39.15 ± 0.04227
55
50
45
40
35
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

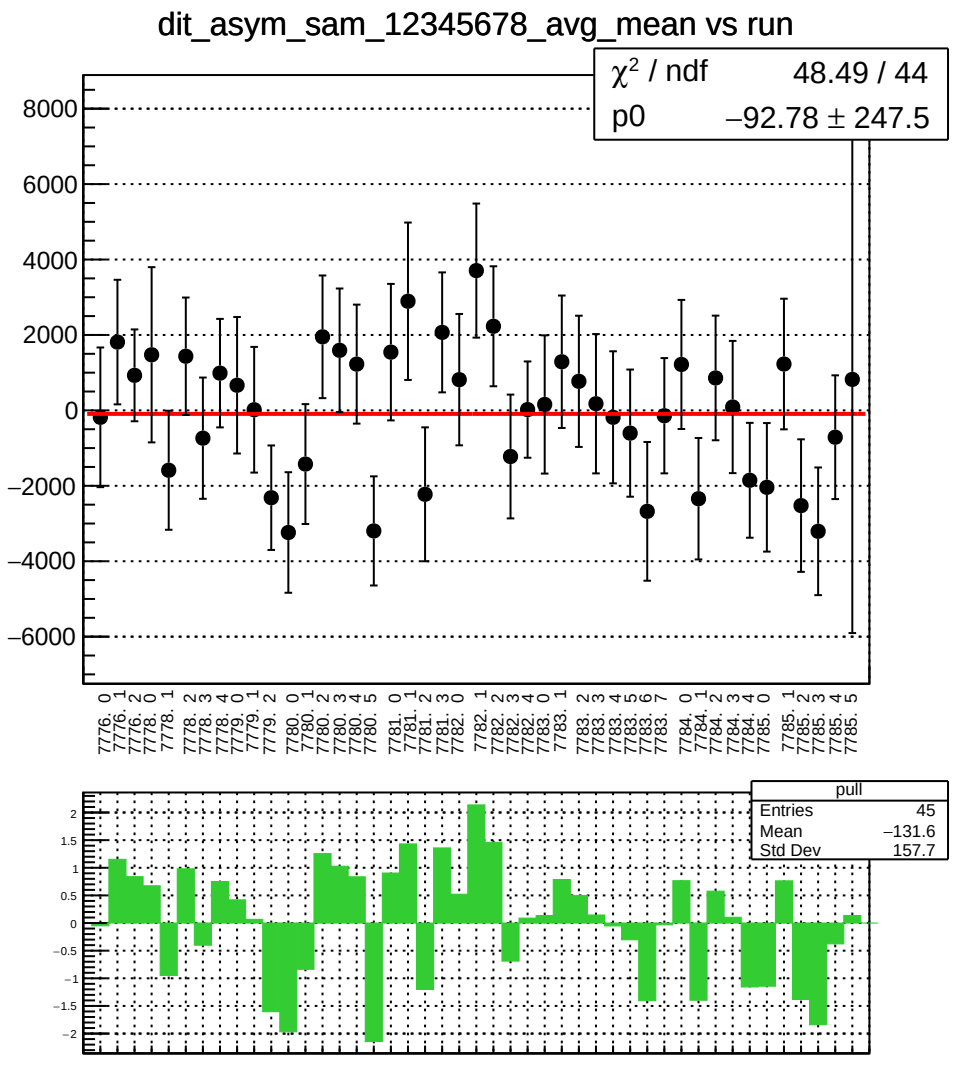

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 37.73 / 44
p0 −360.3 ± 939.9
50000
40000
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −25.35
Std Dev 13.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.01234
Std Dev 0.9156
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

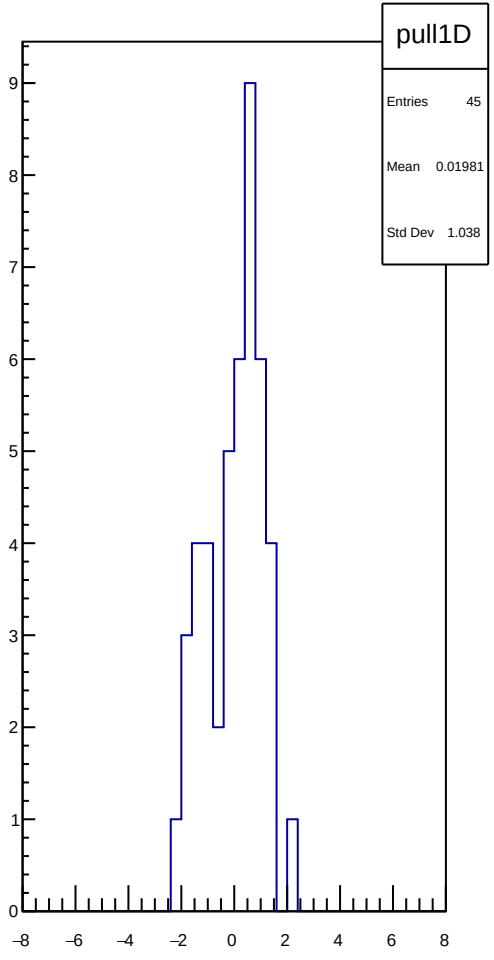

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 981.1 / 44
p0 616.8 ± 0.6646
680
660
640
620
600
580
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

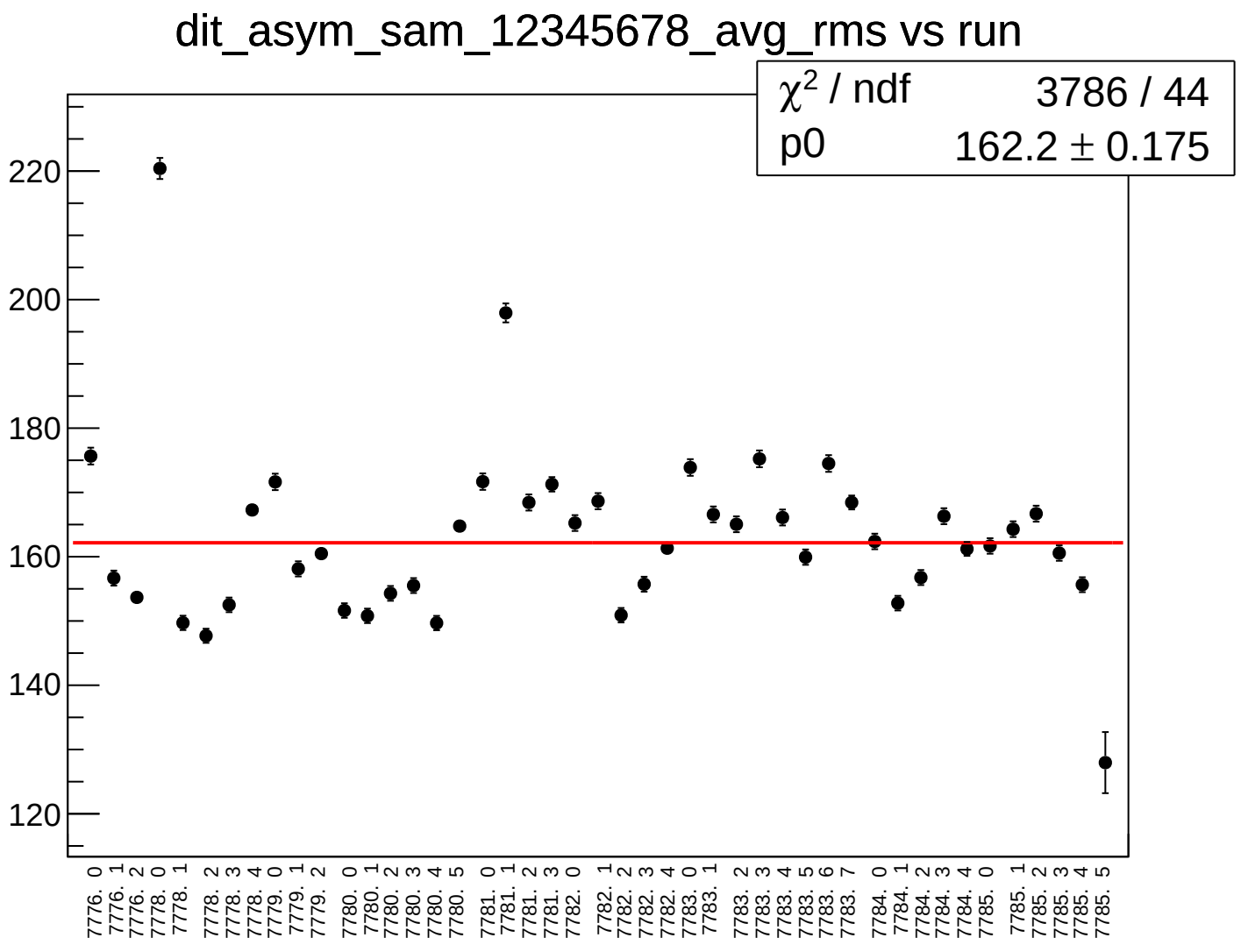

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 35.69 / 44
p0 345.2 ± 944.7
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −30.1
Std Dev 31.74
1.5
1
0.5
0
−0.5
−1
−1.5

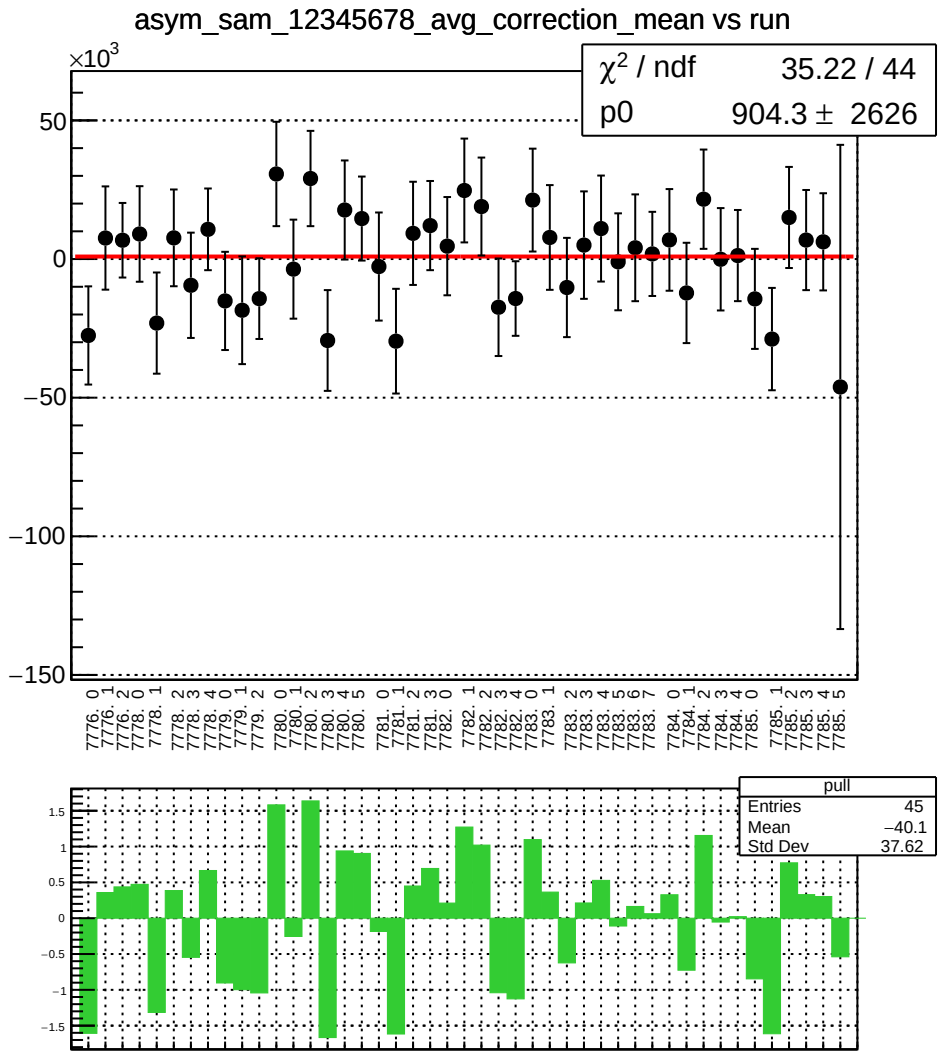

pull1D
Entries 45
Mean −0.01365
Std Dev 0.8904
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

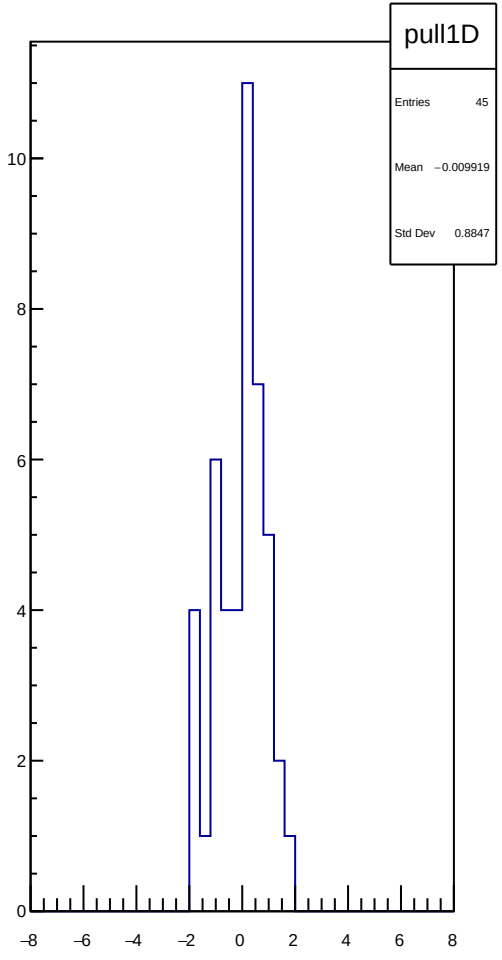

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1017 / 44
p0 619.9 ± 0.668
680
660
640
620
600
580
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

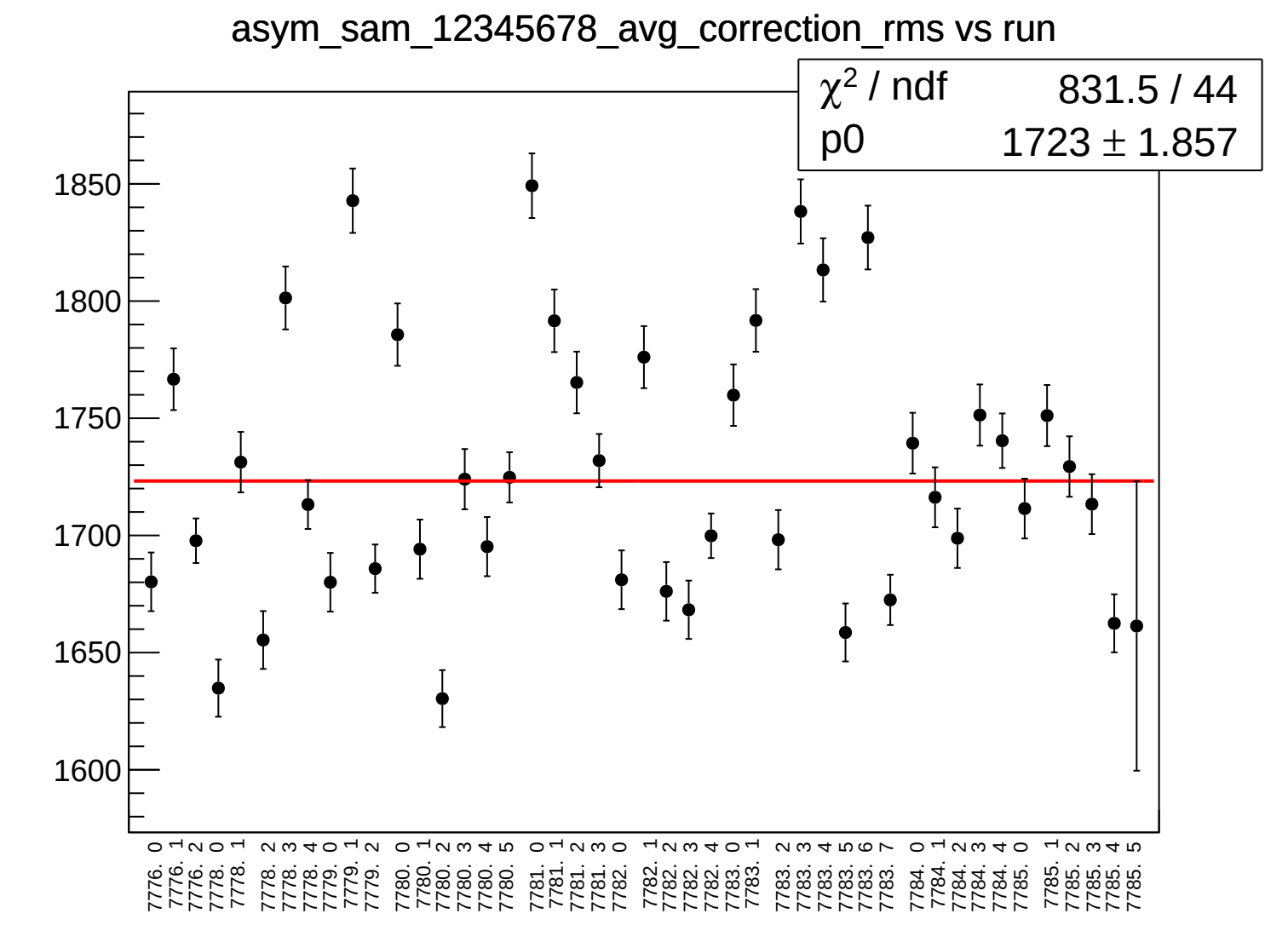

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 48.49 / 44
p0 −92.78 ± 247.5
8000
6000
4000
2000
0
−2000
−4000
−6000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −131.6
Std Dev 157.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

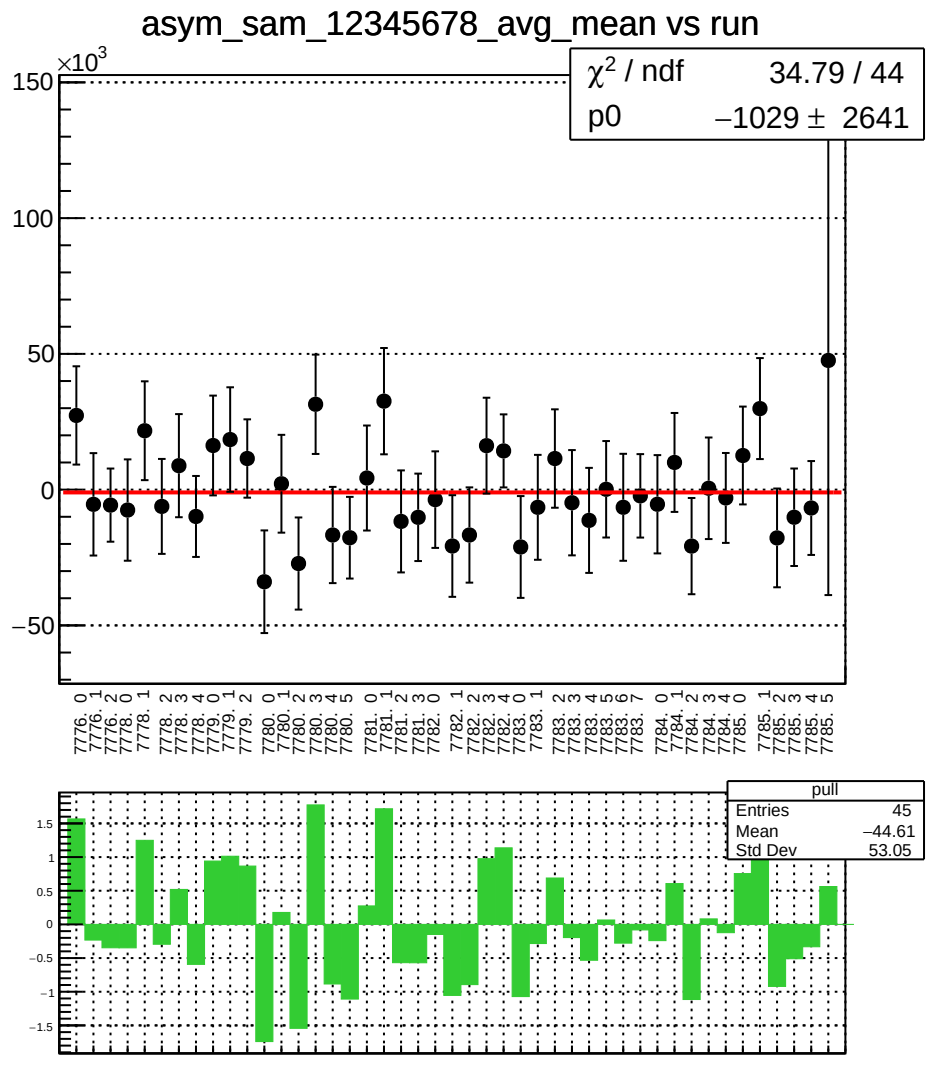

pull1D
Entries 45
Mean 0.01981
Std Dev 1.038
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

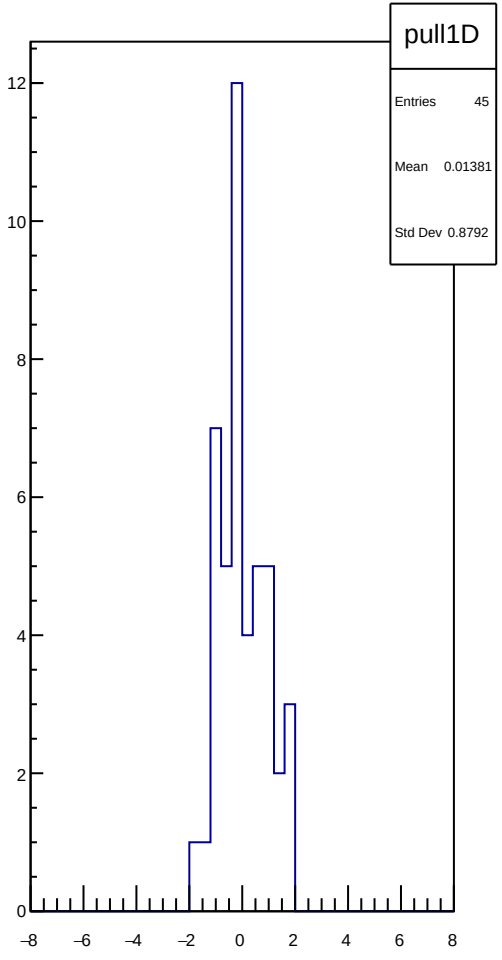

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3786 / 44
p0 162.2 ± 0.175
220
200
180
160
140
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

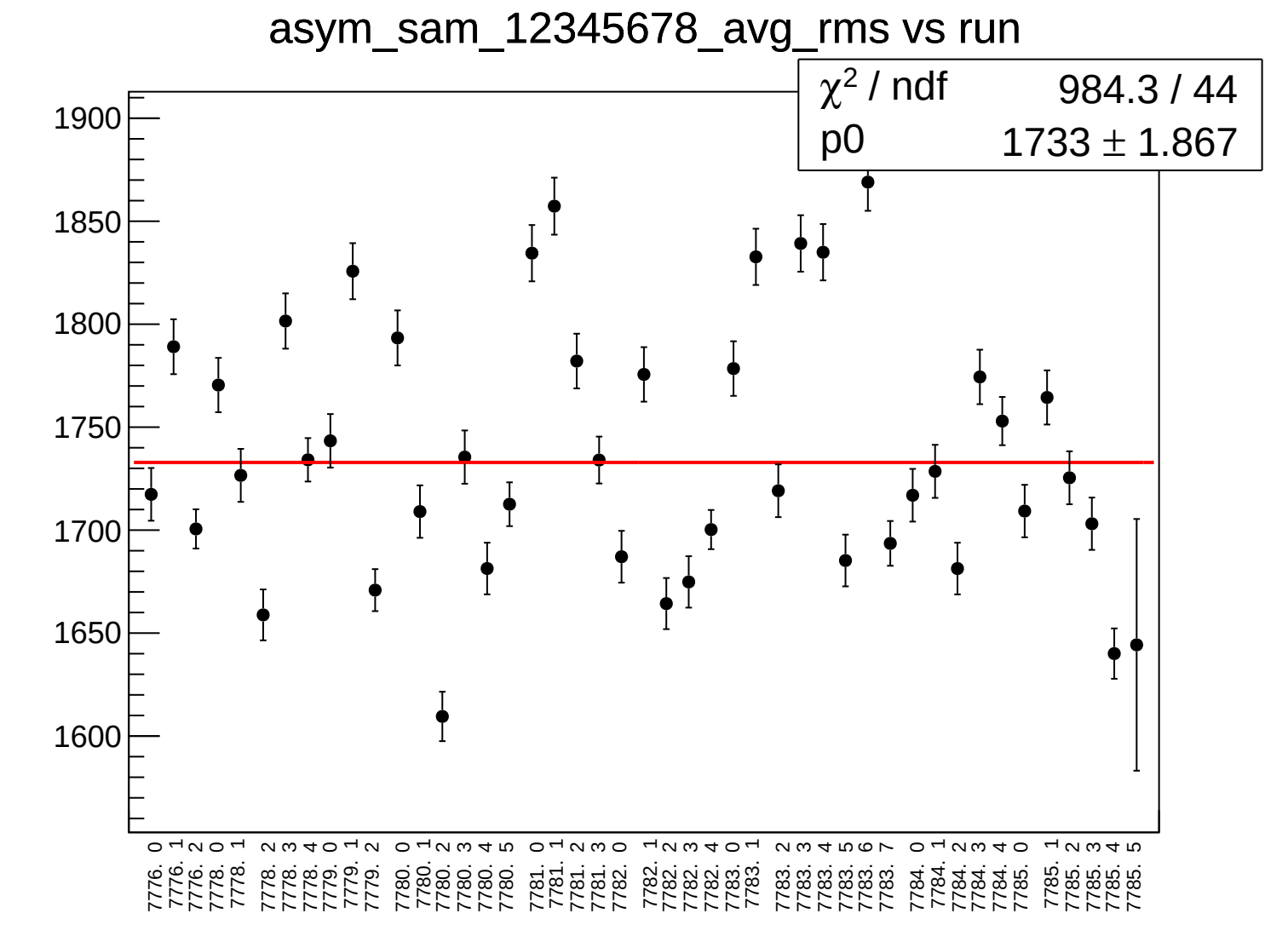

asym_sam_12345678_avg_correction_mean vs run
×10^3
χ² / ndf 35.22 / 44
p0 904.3 ± 2626
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −40.1
Std Dev 37.62
1.5
1
0.5
0
−0.5
−1
−1.5

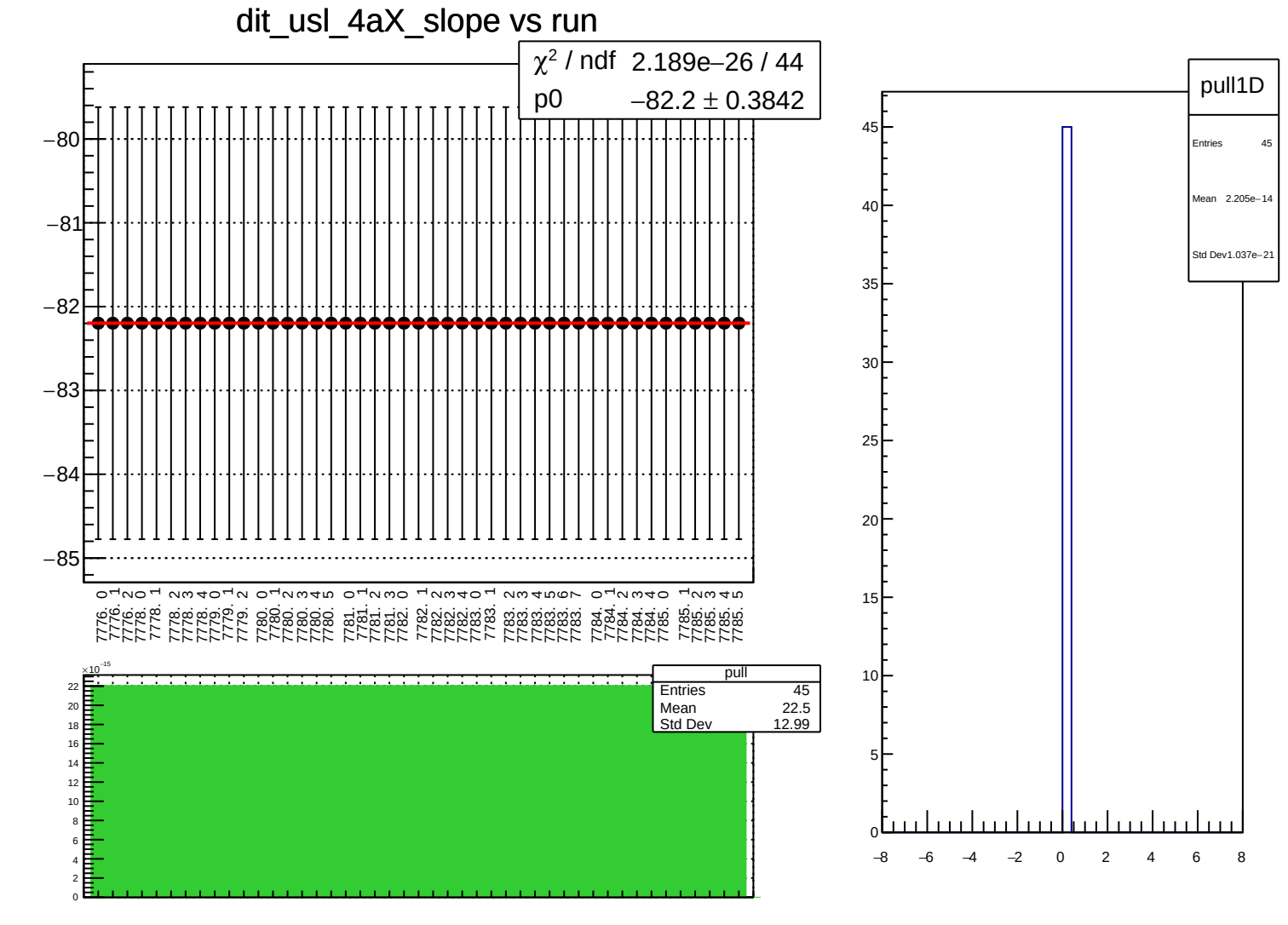

pull1D
Entries 45
Mean −0.009919
Std Dev 0.8847
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

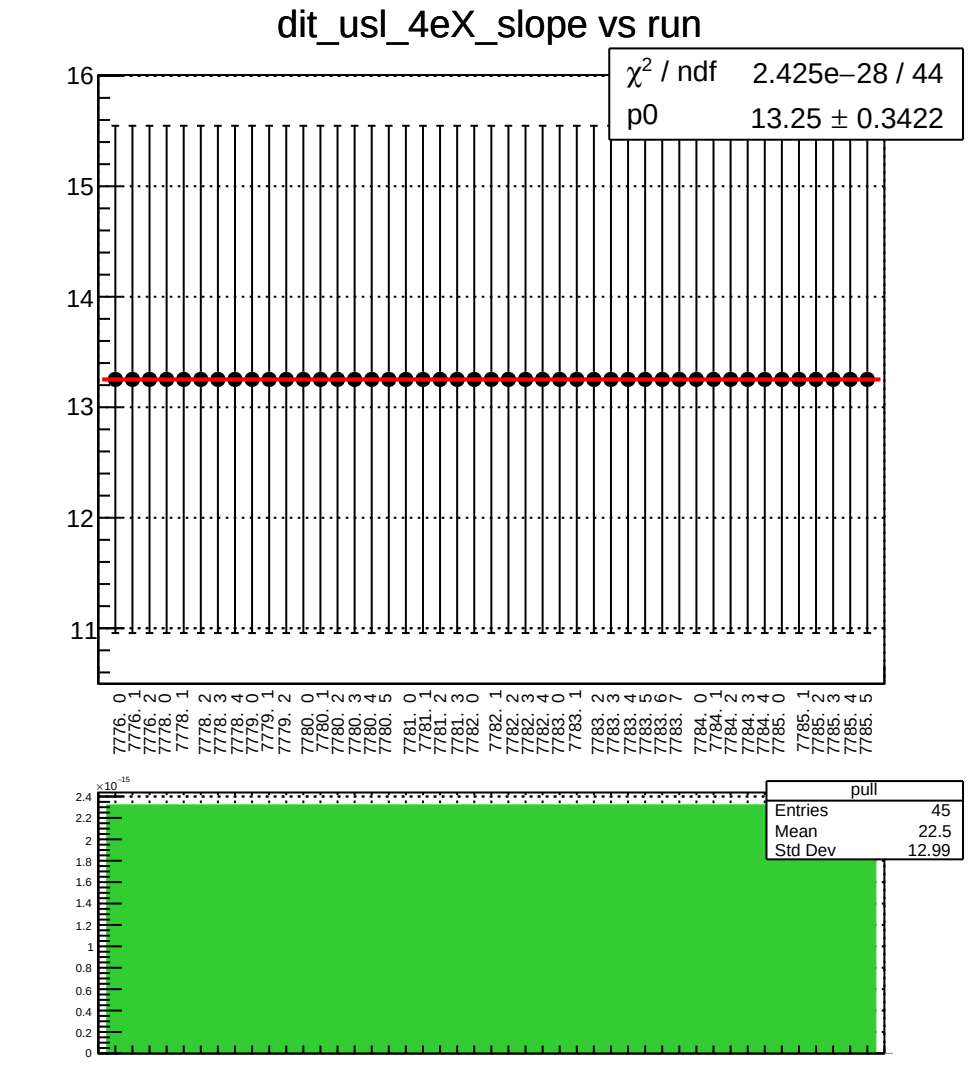

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 831.5 / 44
p0 1723 ± 1.857
1850
1800
1750
1700
1650
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5

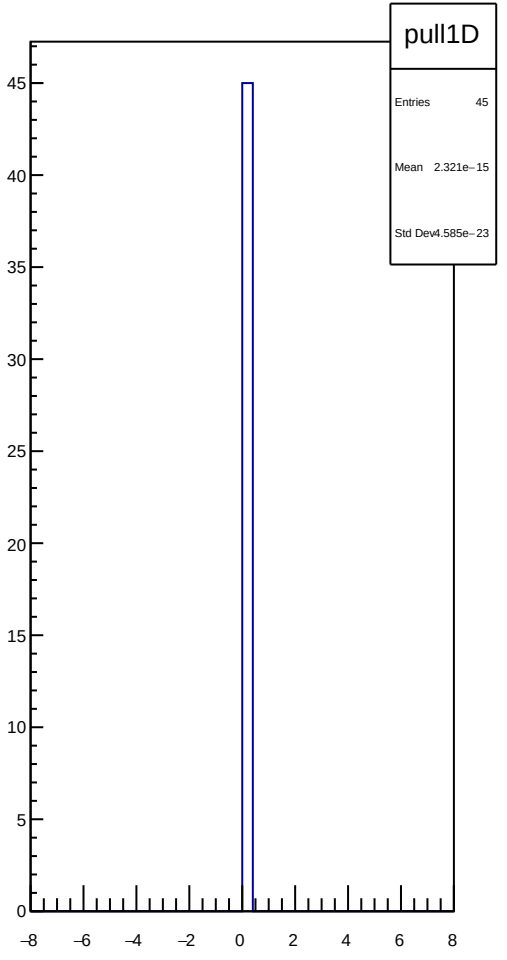

asym_sam_12345678_avg_mean vs run
×10^3
χ² / ndf 34.79 / 44
p0 −1029 ± 2641
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −44.61
Std Dev 53.05
1.5
1
0.5
0
−0.5
−1
−1.5

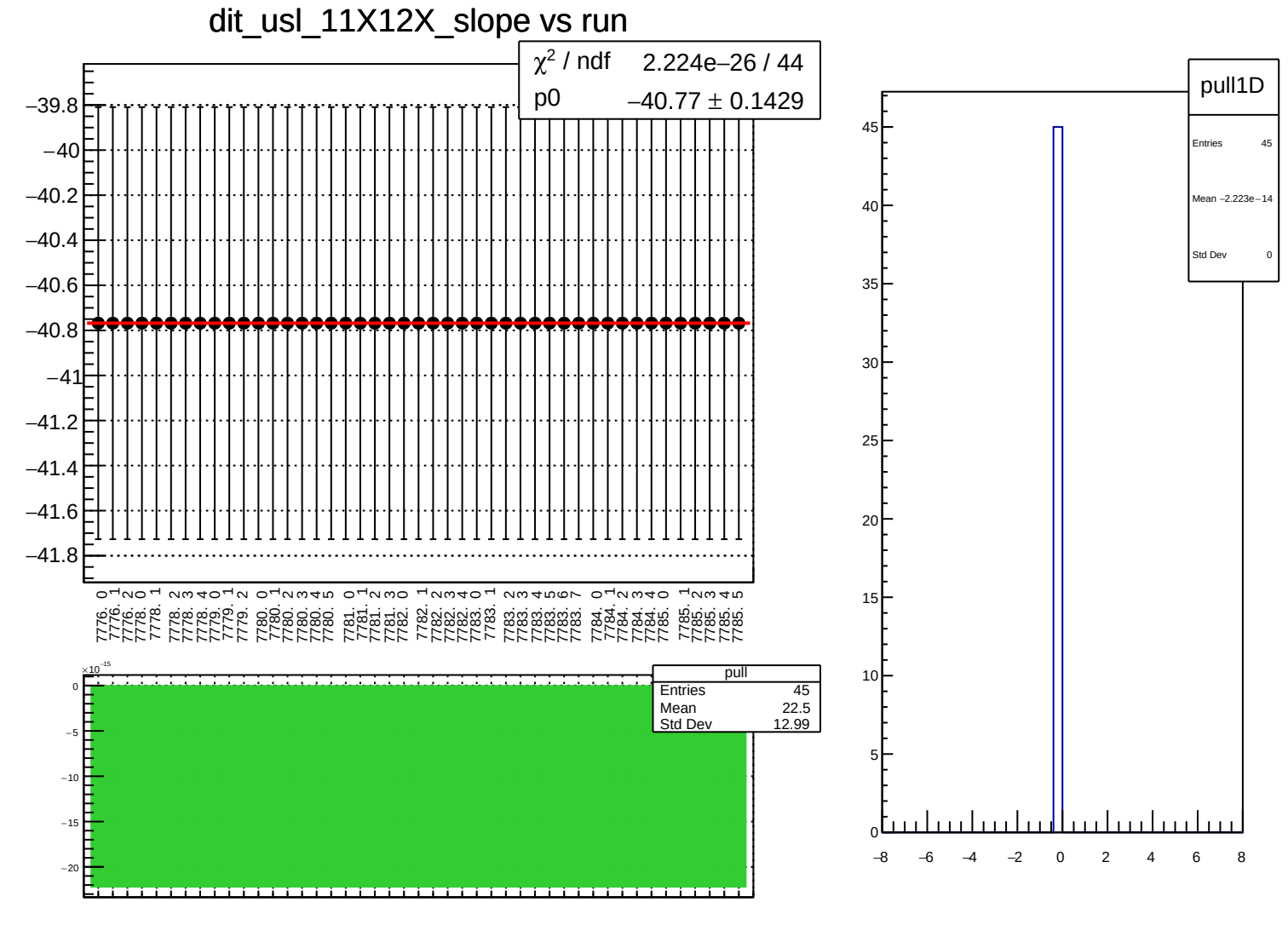

pull1D
Entries 45
Mean 0.01381
Std Dev 0.8792
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

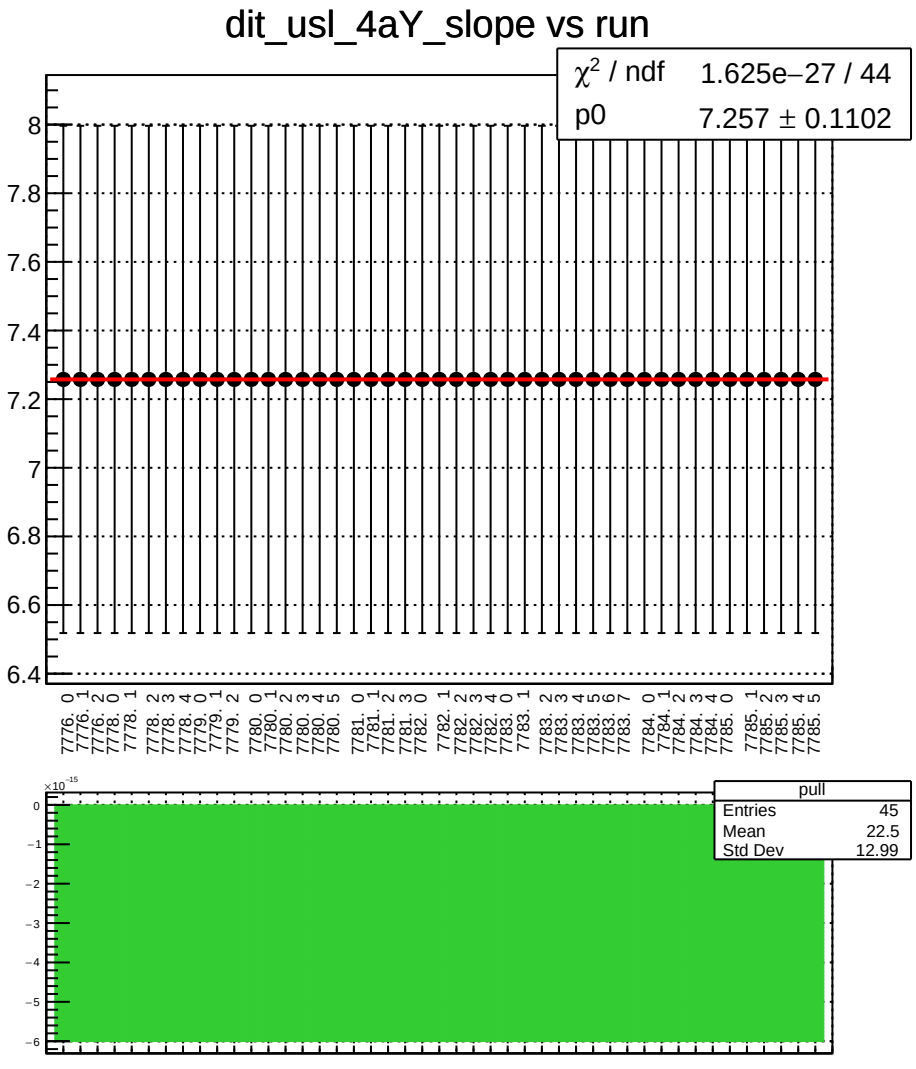

asym_sam_12345678_avg_rms vs run
χ² / ndf 984.3 / 44
p0 1733 ± 1.867
1900
1850
1800
1750
1700
1650
1600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5


dit_usl_4aX_slope vs run
χ² / ndf 2.189e−26 / 44
p0 −82.2 ± 0.3842
−80
−81
−82
−83
−84
−85
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 2.205e−14
Std Dev1.037e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eX_slope vs run
χ² / ndf 2.425e−28 / 44
p0 13.25 ± 0.3422
16
15
14
13
12
11
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean 2.321e−15
Std Dev 4.585e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_11X12X_slope vs run
χ² / ndf 2.224e−26 / 44
p0 −40.77 ± 0.1429
−39.8
−40
−40.2
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
−41.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −2.223e−14
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4aY_slope vs run
χ² / ndf 1.625e−27 / 44
p0 7.257 ± 0.1102
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
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7780. 3
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7780. 5
7781. 0
7781. 1
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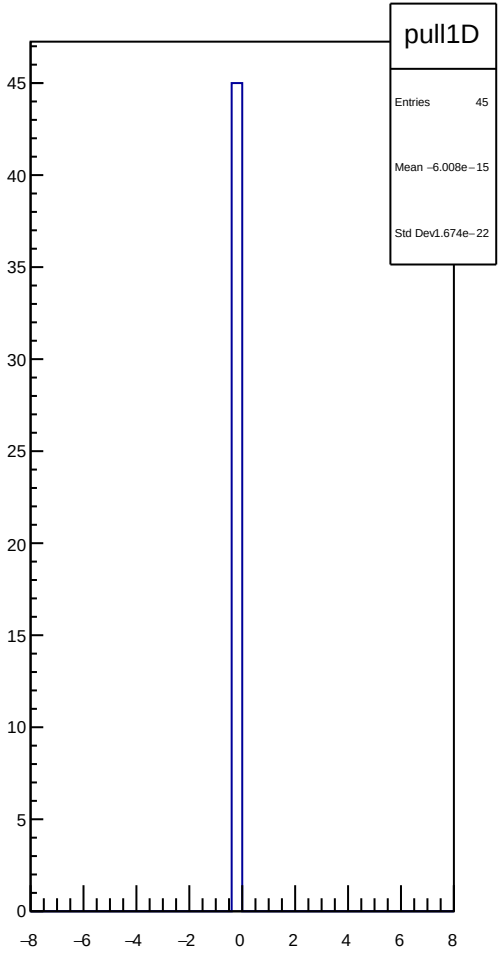
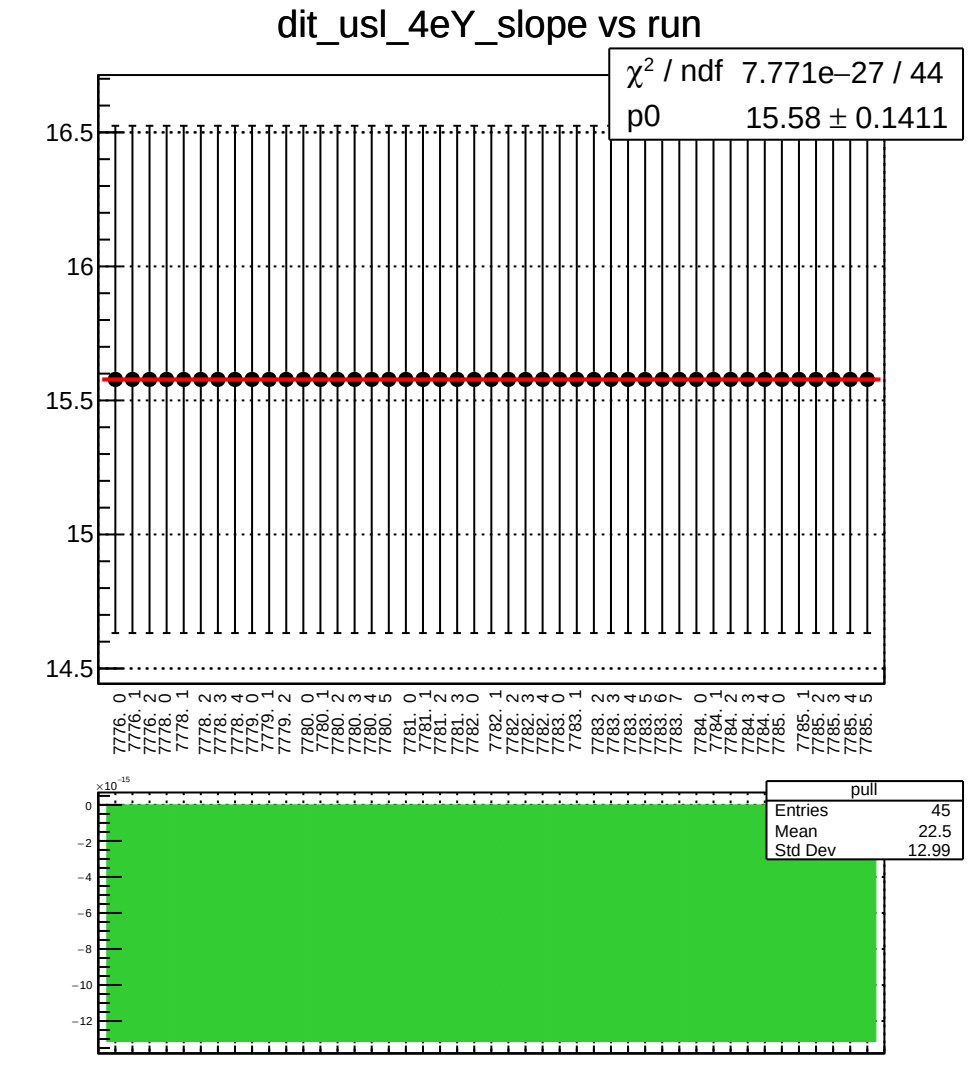
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−1
−2
−3
−4
−5
−6
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −6.008e−15
Std Dev1.674e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eY_slope vs run
χ² / ndf 7.771e−27 / 44
p0 15.58 ± 0.1411
16.5
16
15.5
15
14.5
7776. 0
7776. 1
7776. 2
7778. 0
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7778. 2
7778. 3
7778. 4
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7779. 1
7779. 2
7780. 0
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7782. 0
7782. 1
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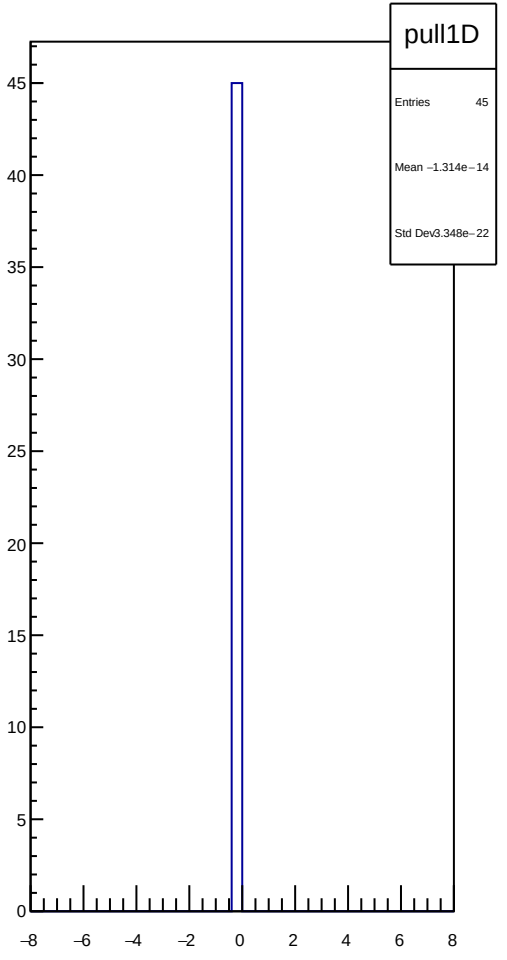
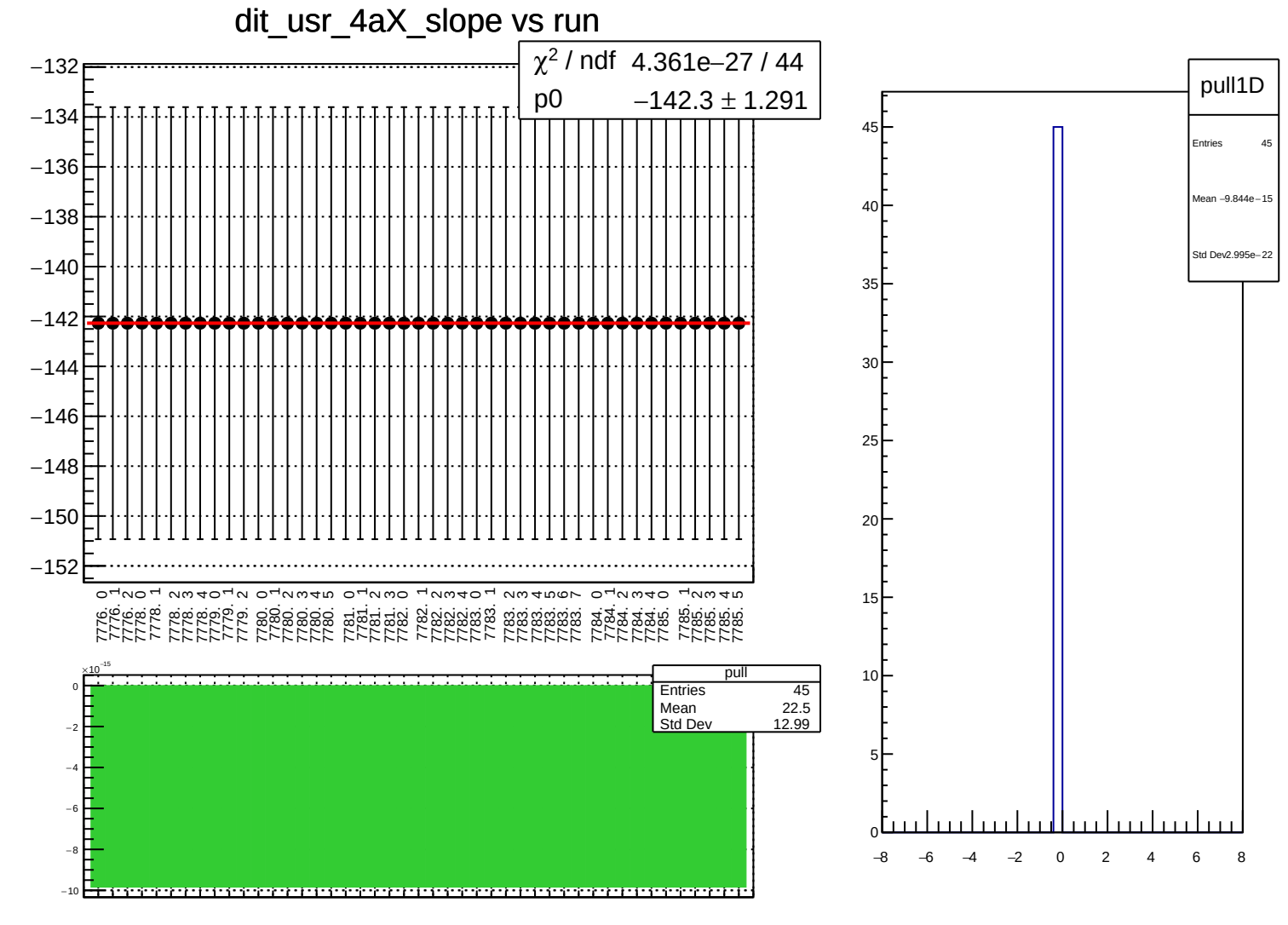
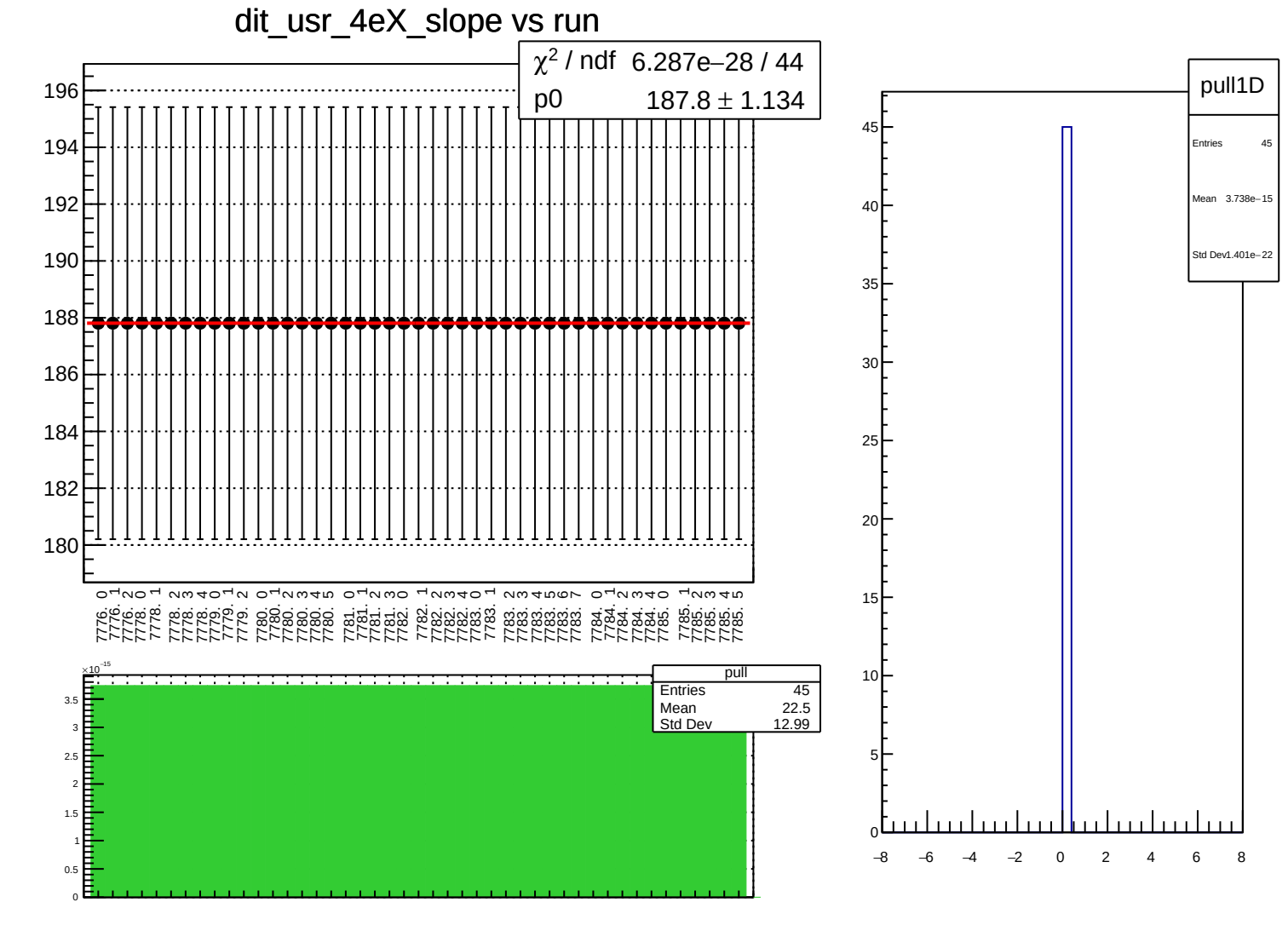
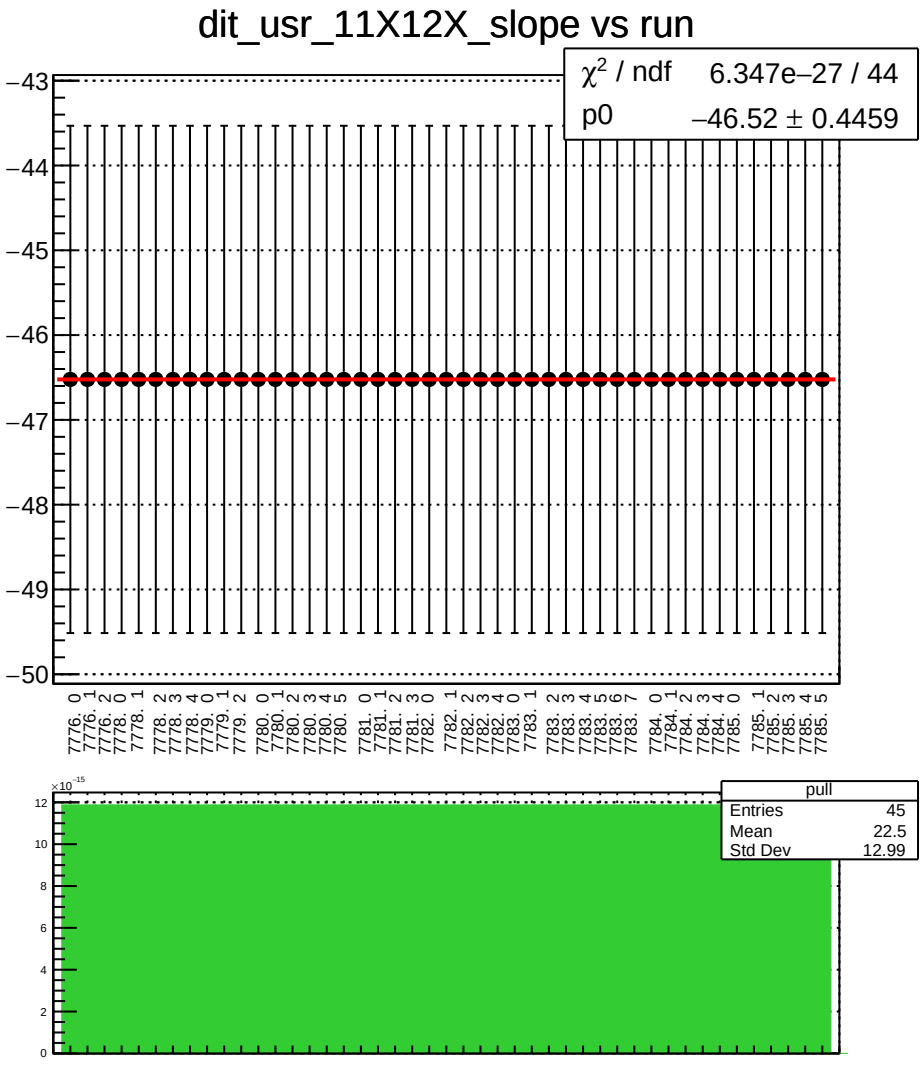
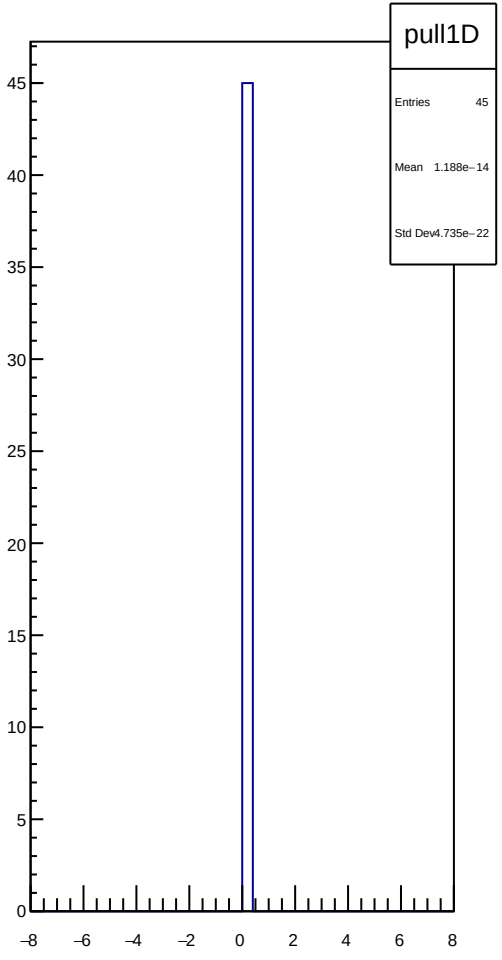
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−2
−4
−6
−8
−10
−12
pull
Entries 45
Mean 22.5
Std Dev 12.99

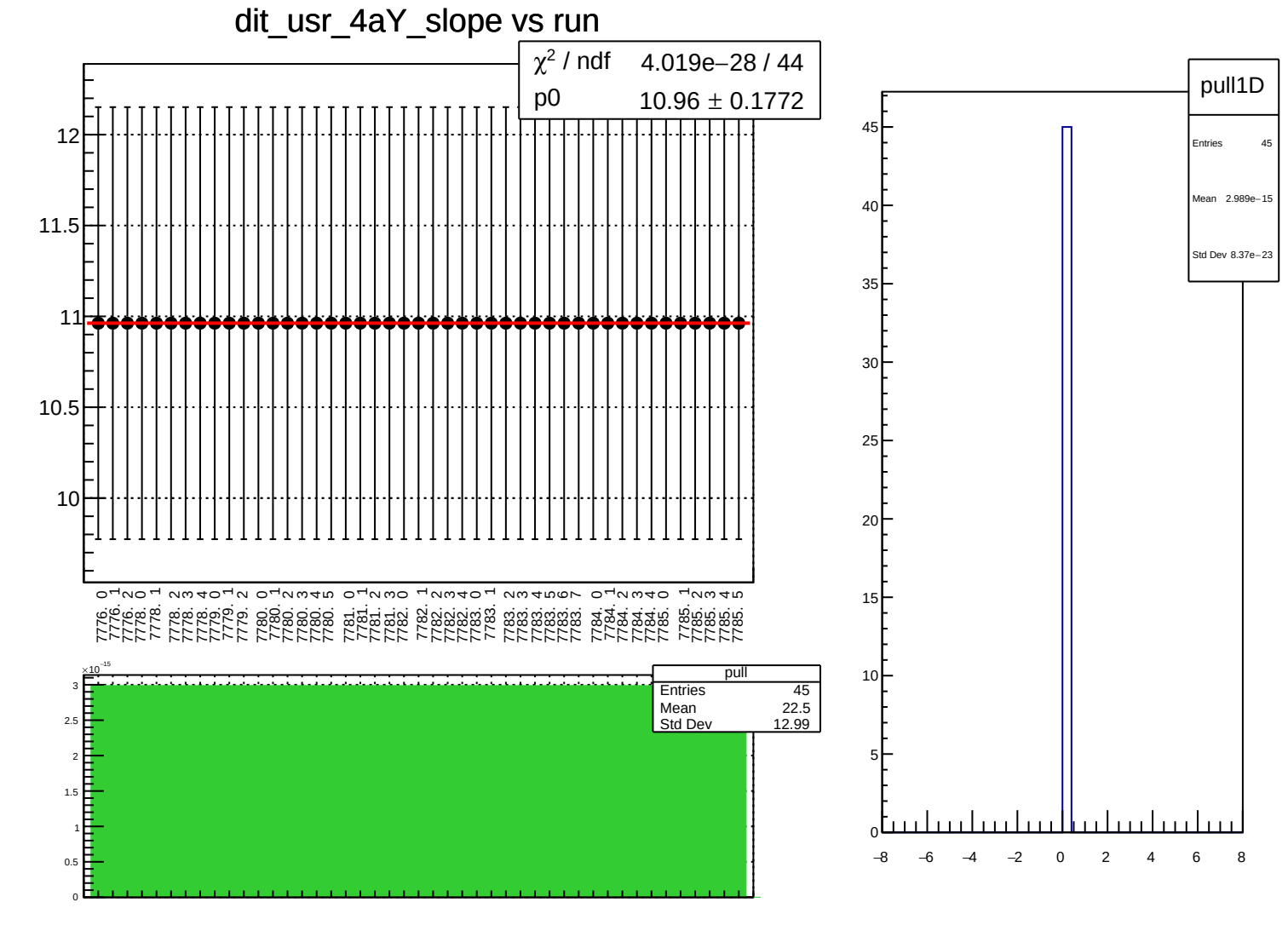

pull1D
Entries 45
Mean −1.314e−14
Std Dev3.348e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

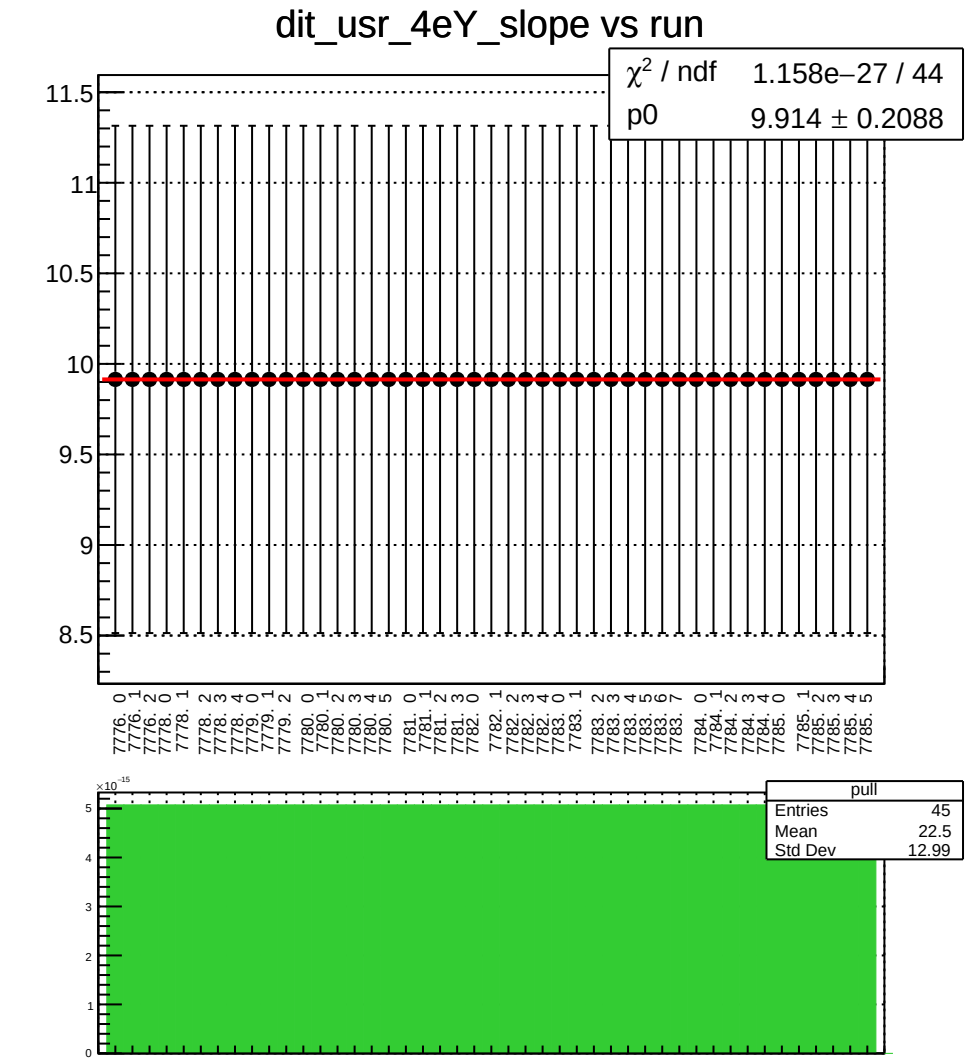

dit_usr_4aX_slope vs run
χ² / ndf 4.361e−27 / 44
p0 −142.3 ± 1.291
−132
−134
−136
−138
−140
−142
−144
−146
−148
−150
−152
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−2
−4
−6
−8
−10
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −9.844e−15
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

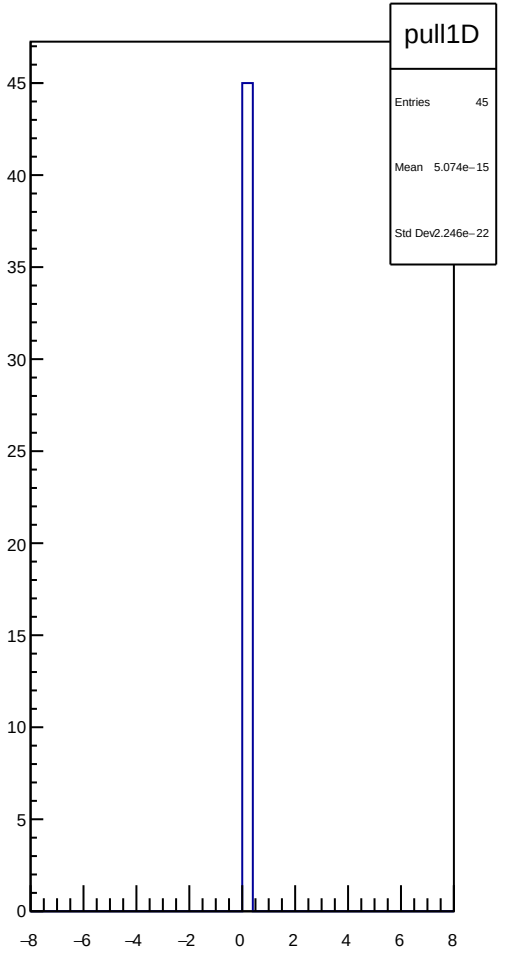

dit_usr_4eX_slope vs run
χ² / ndf 6.287e−28 / 44
p0 187.8 ± 1.134
196
194
192
190
188
186
184
182
180
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 3.738e−15
Std Dev1.401e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

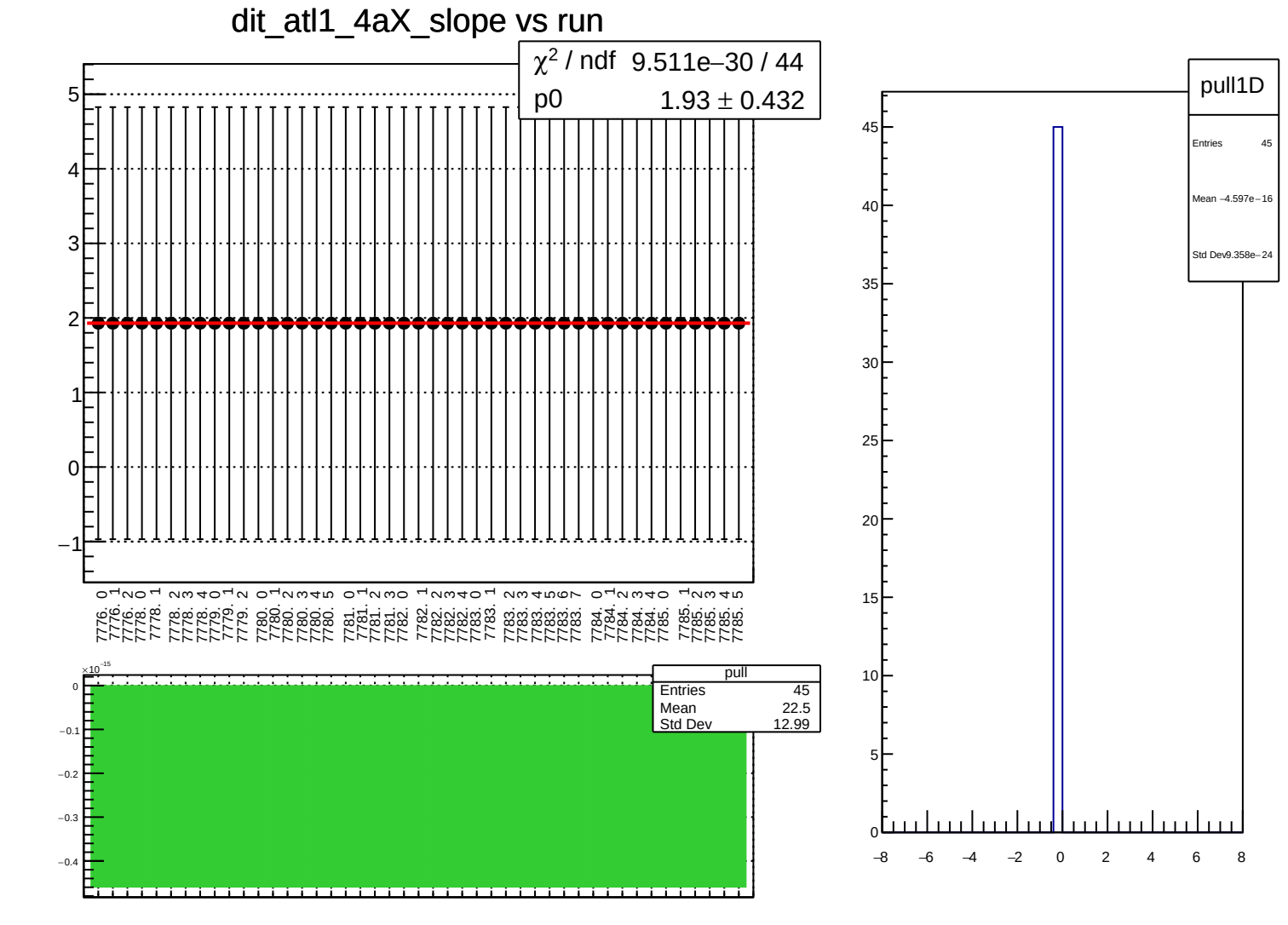

dit_usr_11X12X_slope vs run
χ² / ndf 6.347e−27 / 44
p0 −46.52 ± 0.4459
−43
−44
−45
−46
−47
−48
−49
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

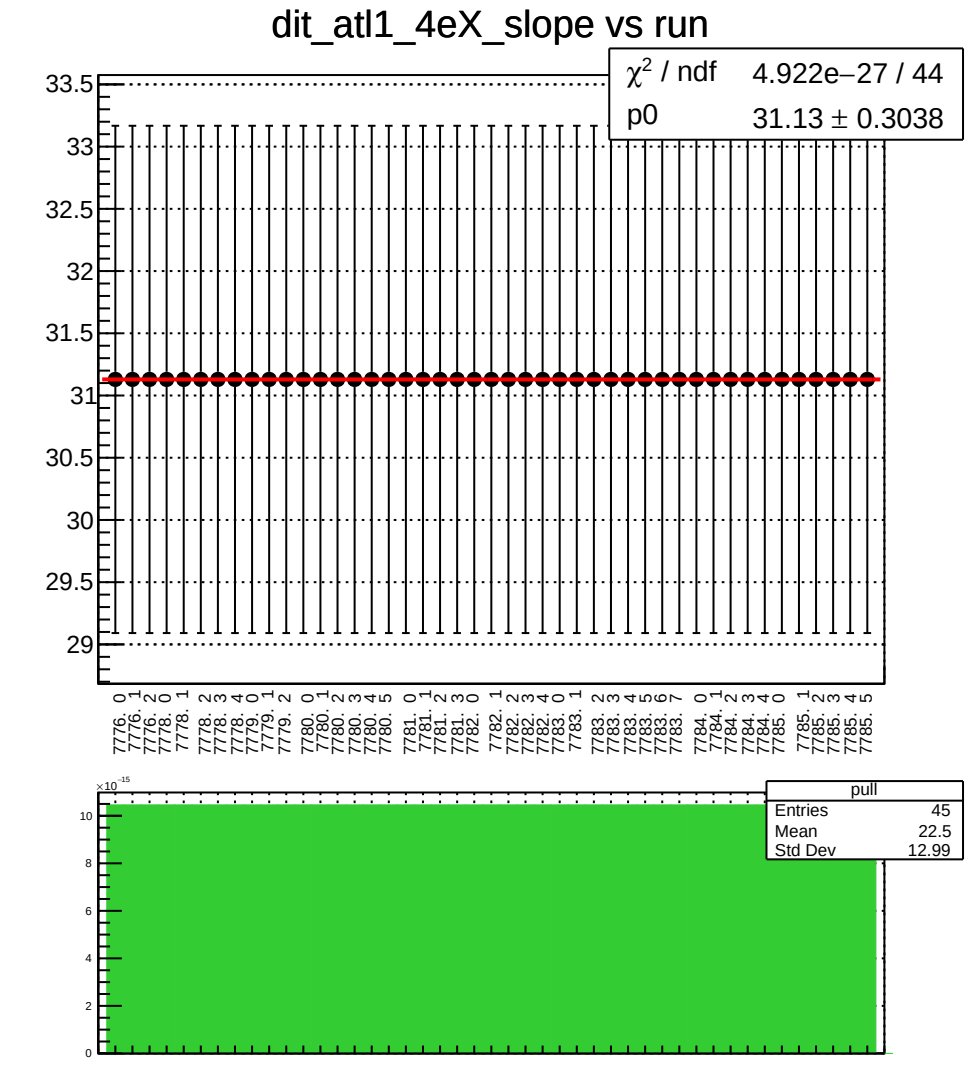

pull1D
Entries 45
Mean 1.188e−14
Std Dev4.735e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

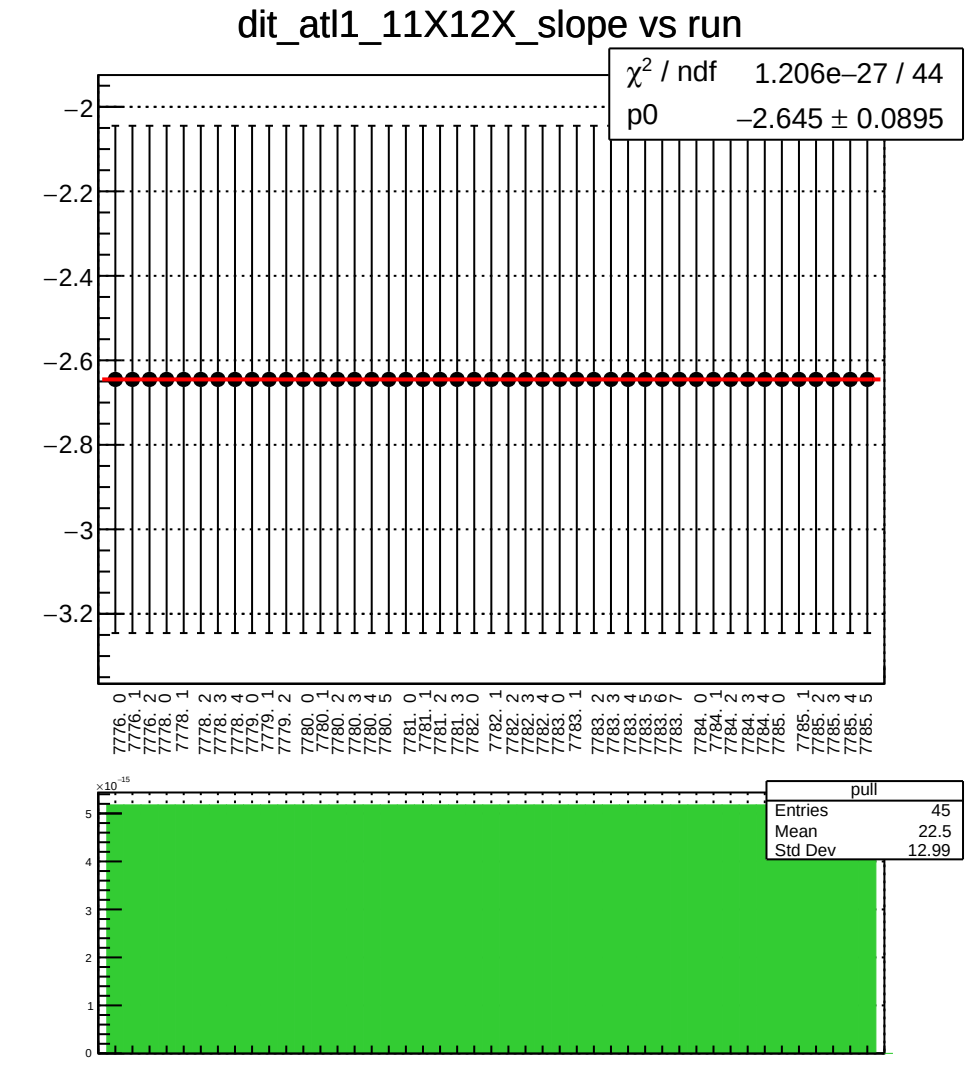

dit_usr_4aY_slope vs run
χ² / ndf 4.019e−28 / 44
p0 10.96 ± 0.1772
12
11.5
11
10.5
10
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 2.989e−15
Std Dev 8.37e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

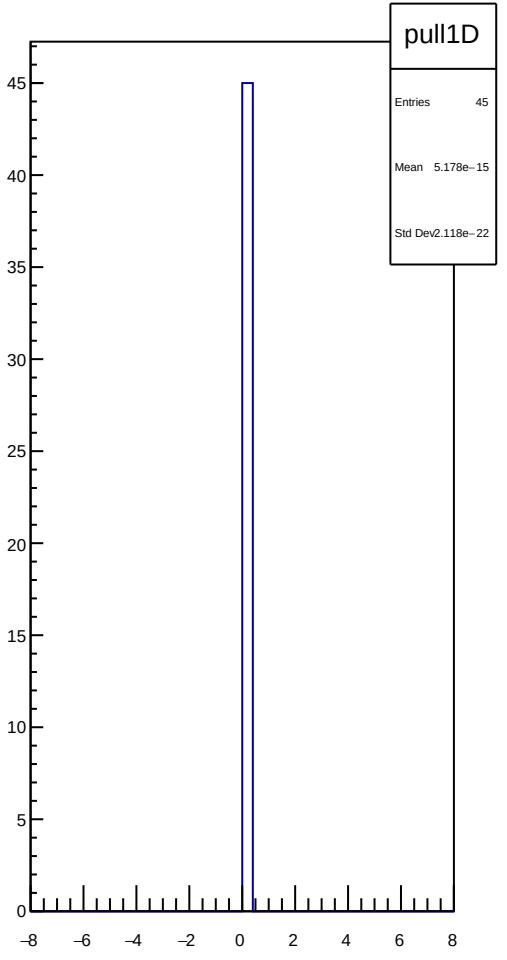

dit_usr_4eY_slope vs run
χ² / ndf 1.158e−27 / 44
p0 9.914 ± 0.2088
11.5
11
10.5
10
9.5
9
8.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

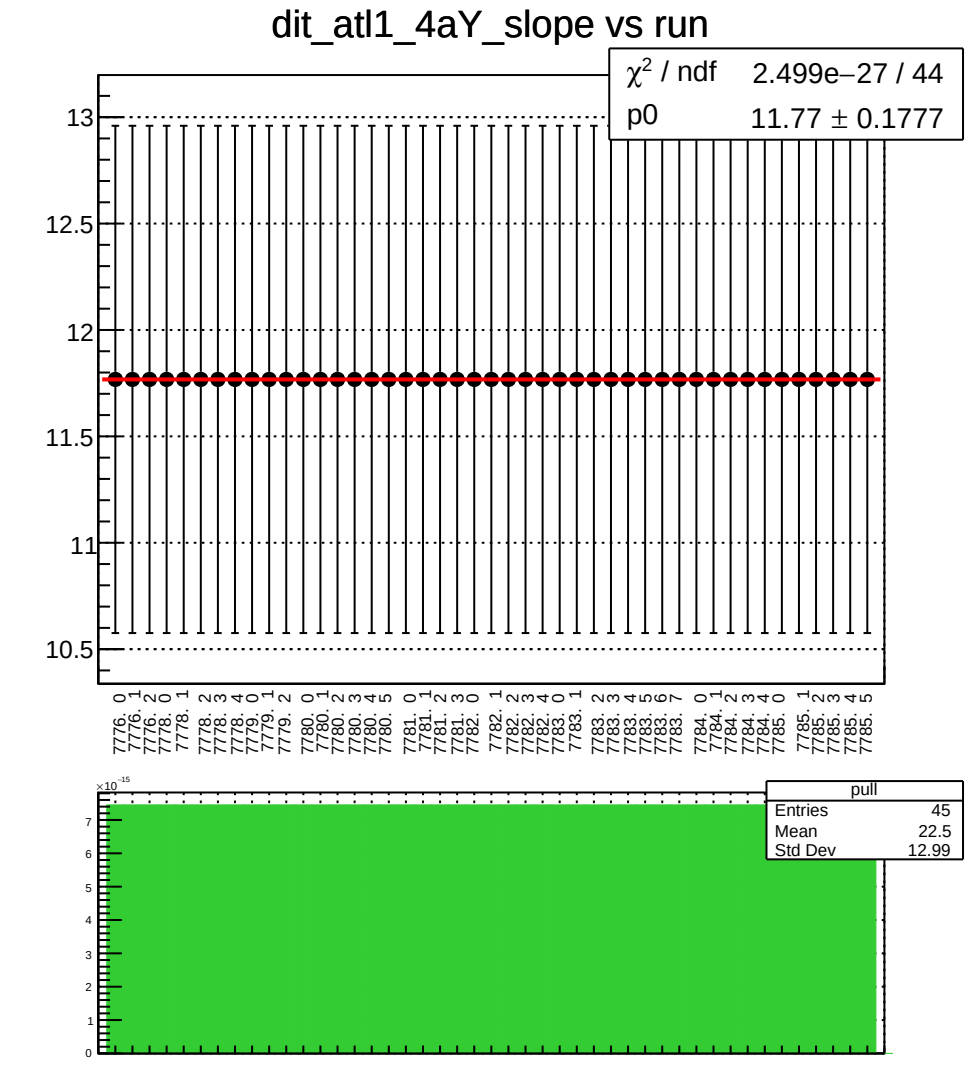

pull1D
Entries 45
Mean 5.074e−15
Std Dev 2.246e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

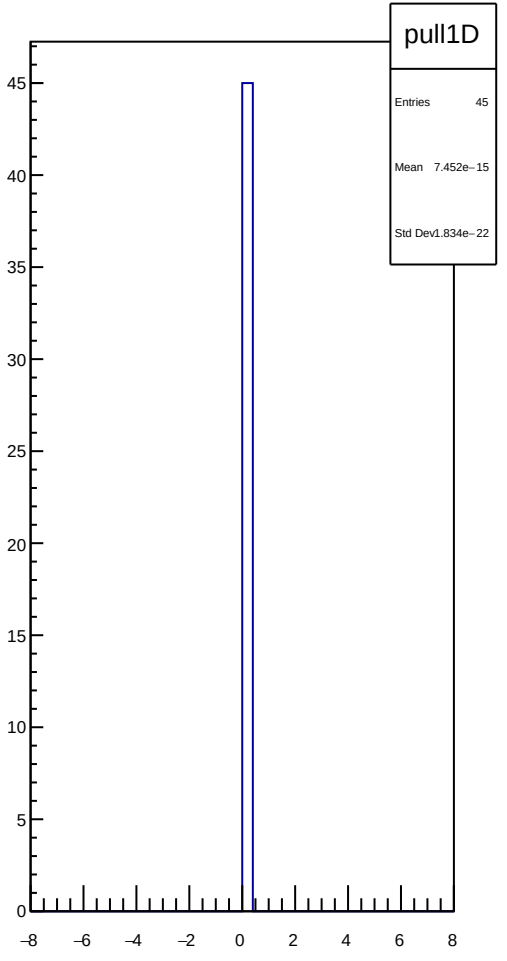

dit_atl1_4aX_slope vs run
χ² / ndf 9.511e−30 / 44
p0 1.93 ± 0.432
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −4.597e−16
Std Dev 9.358e−24

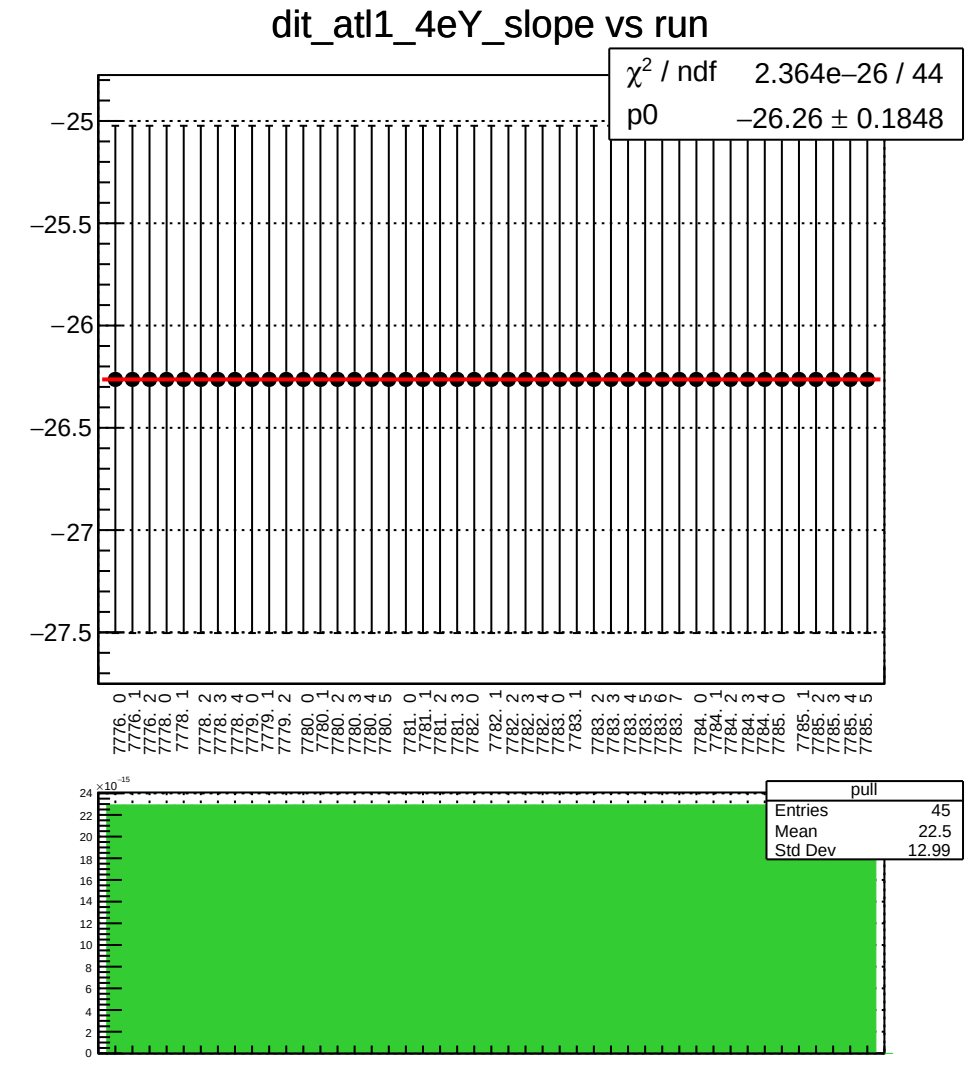

dit_atl1_4eX_slope vs run
χ² / ndf 4.922e−27 / 44
p0 31.13 ± 0.3038
33.5
33
32.5
32
31.5
31
30.5
30
29.5
29
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.046e−14
Std Dev4.235e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

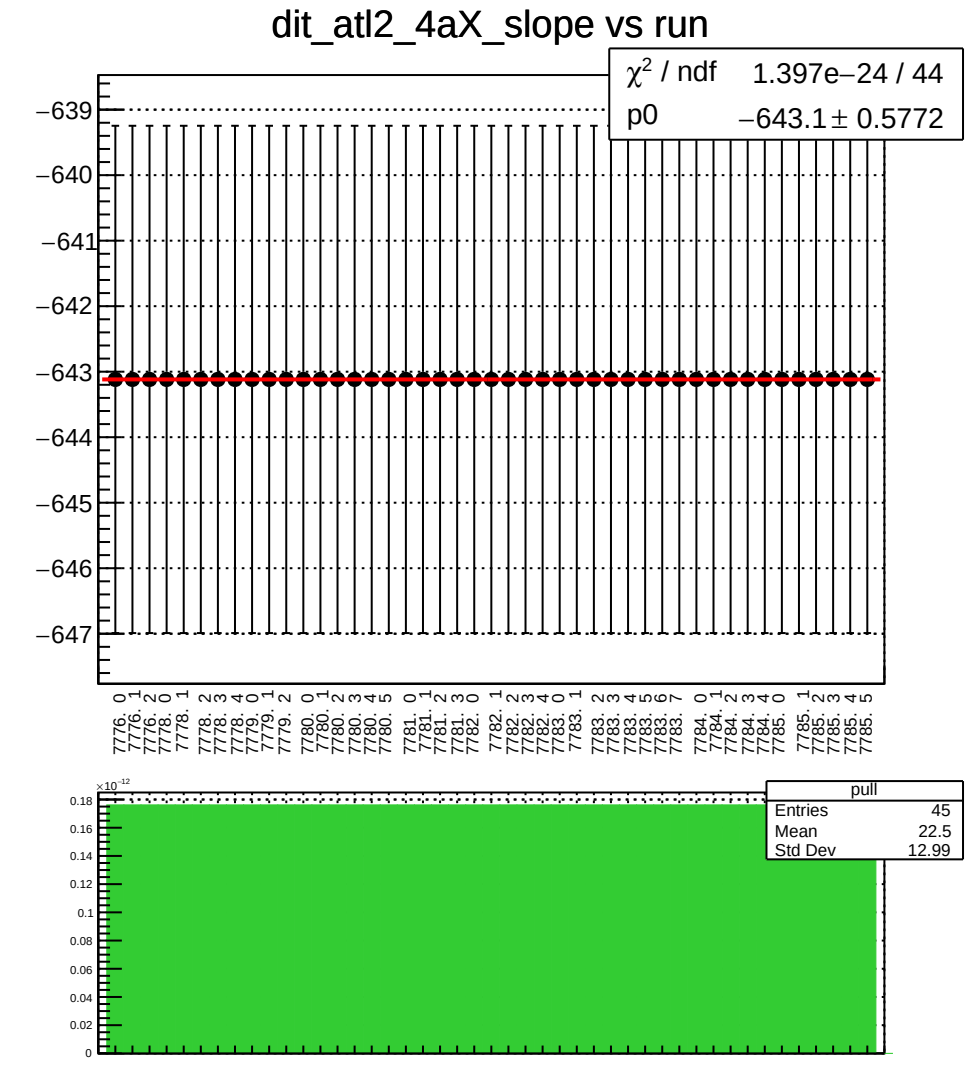

dit_atl1_11X12X_slope vs run
χ^2 / ndf 1.206e−27 / 44
p0 −2.645 ± 0.0895
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

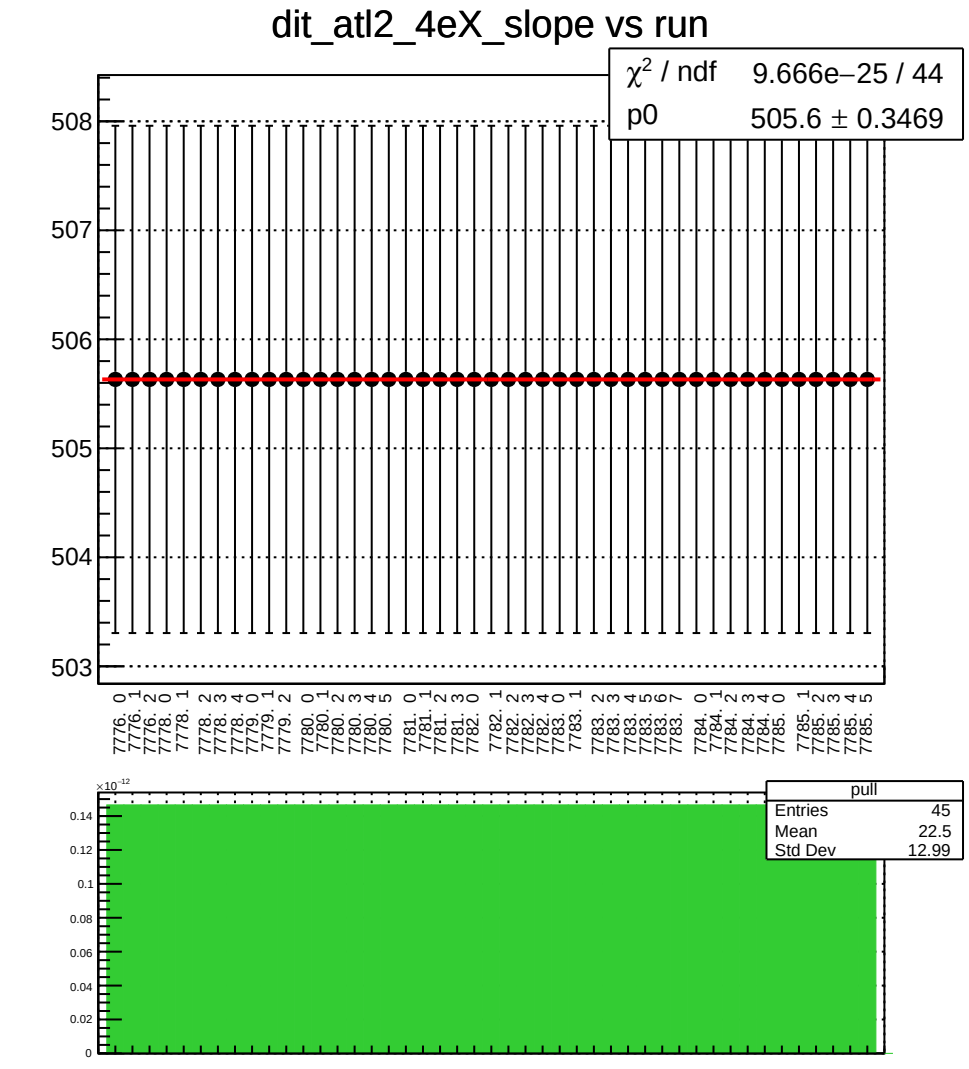

pull1D
Entries 45
Mean 5.178e−15
Std Dev2.118e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

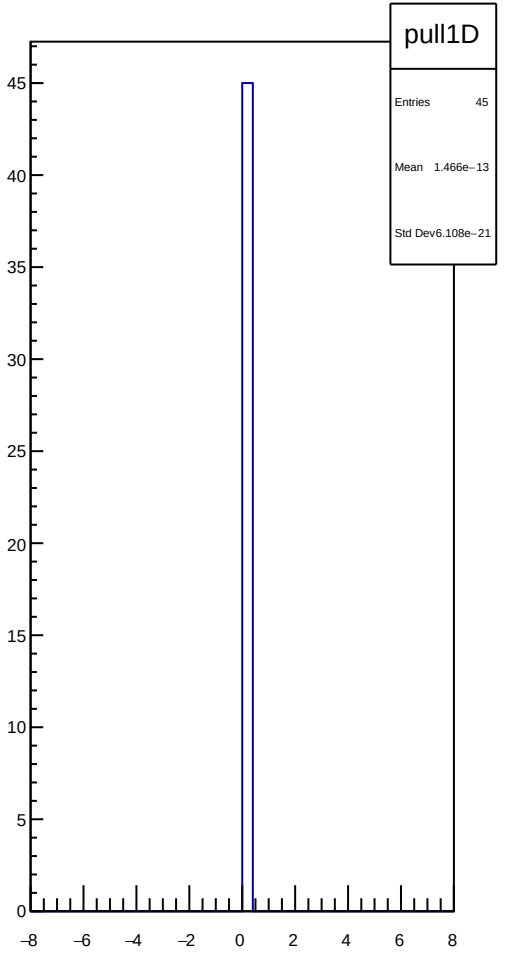

dit_atl1_4aY_slope vs run
χ² / ndf 2.499e−27 / 44
p0 11.77 ± 0.1777
13
12.5
12
11.5
11
10.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
7
6
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

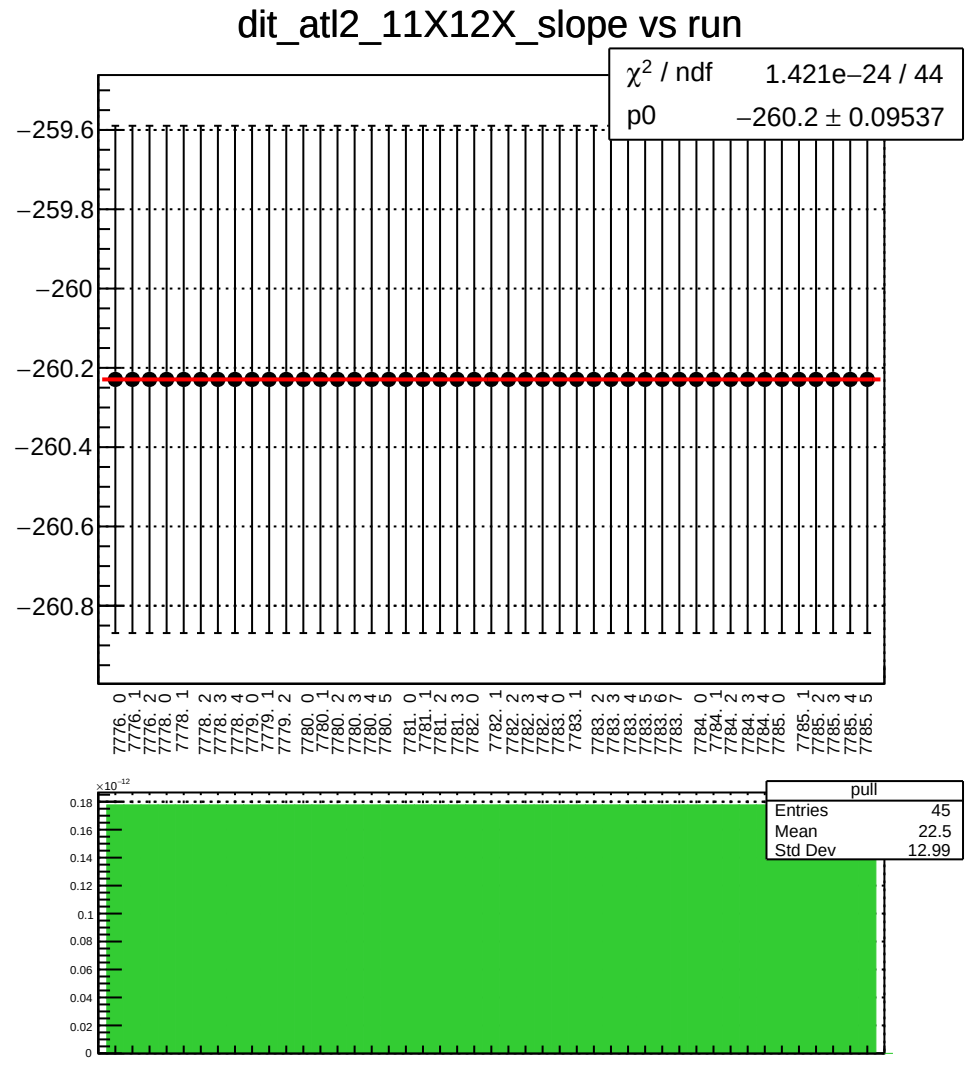

pull1D
Entries 45
Mean 7.452e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

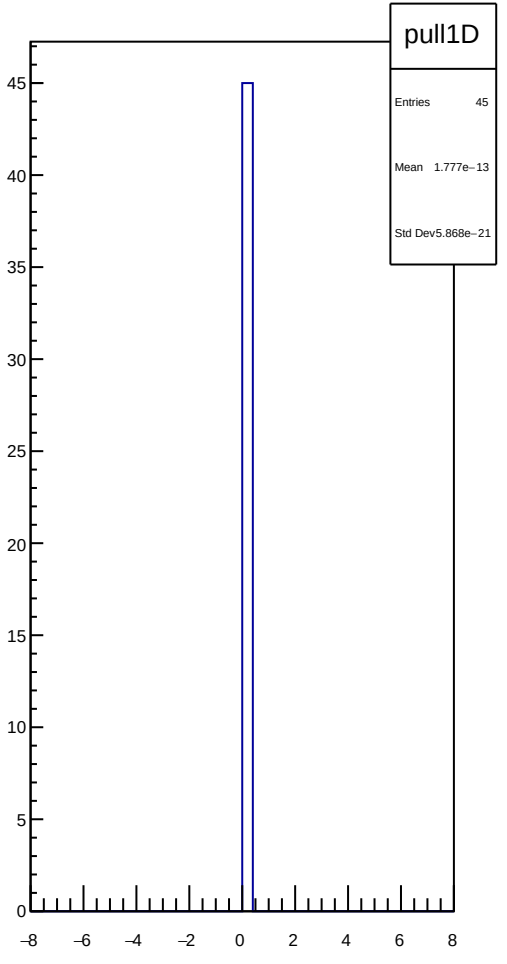

dit_atl1_4eY_slope vs run
χ² / ndf 2.364e−26 / 44
p0 −26.26 ± 0.1848
−25
−25.5
−26
−26.5
−27
−27.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 2.292e−14
Std Dev 5.989e−22

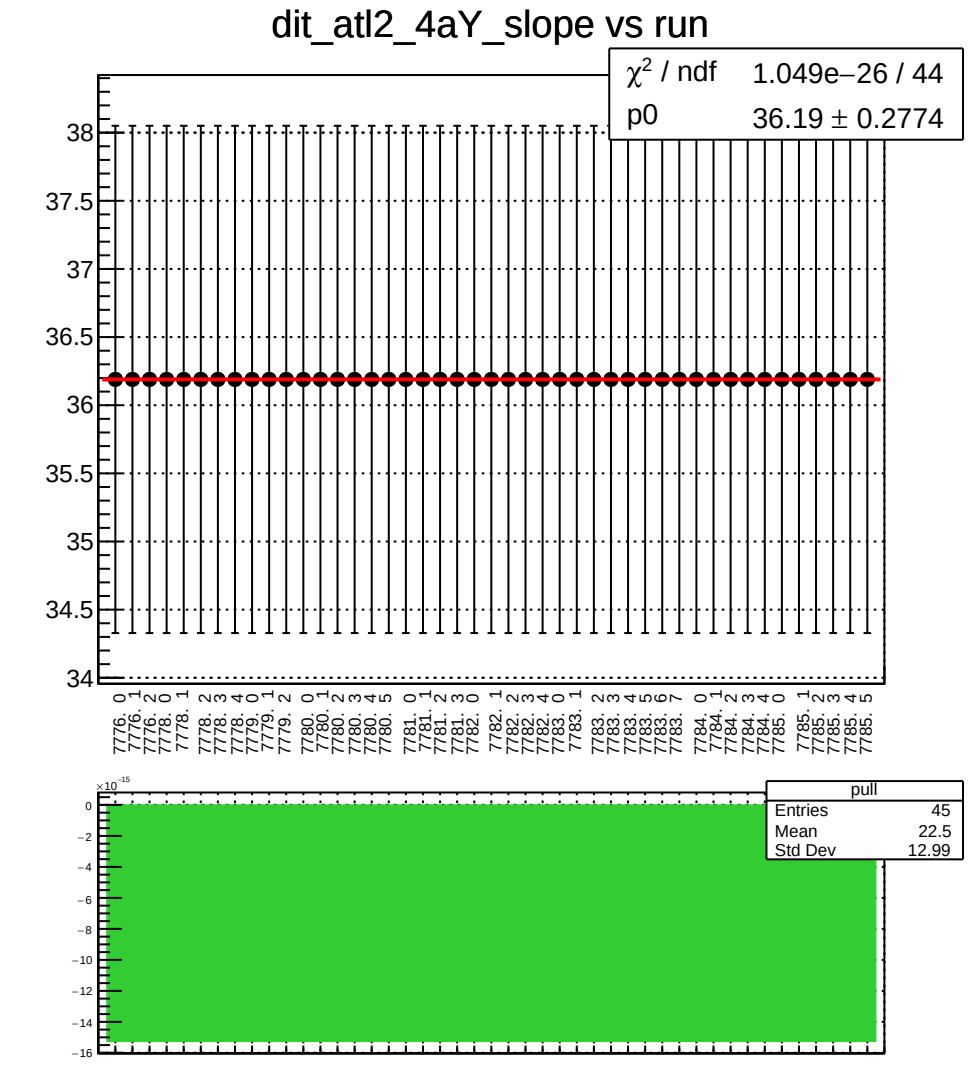

dit_atl2_4aX_slope vs run
χ² / ndf 1.397e−24 / 44
p0 −643.1 ± 0.5772
−639
−640
−641
−642
−643
−644
−645
−646
−647
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.762e−13
Std Dev5.357e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

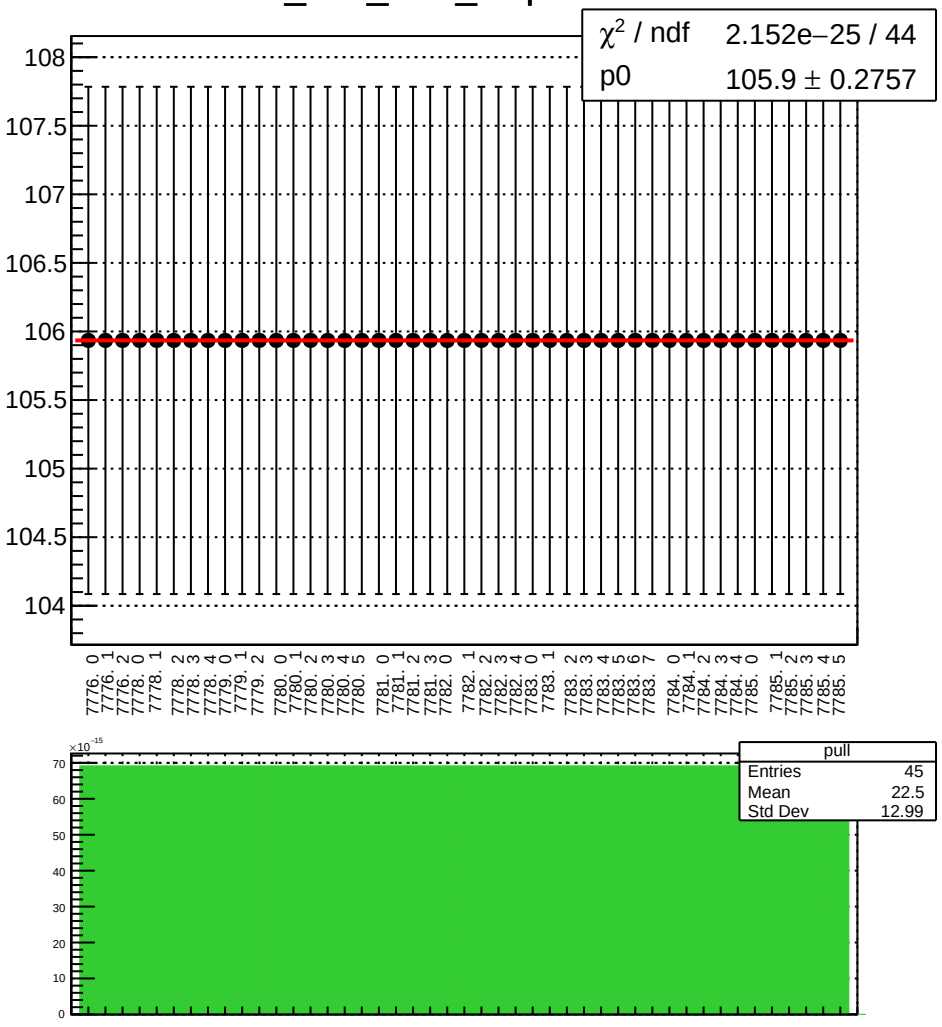

dit_atl2_4eX_slope vs run
χ² / ndf 9.666e−25 / 44
p0 505.6 ± 0.3469
508
507
506
505
504
503
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

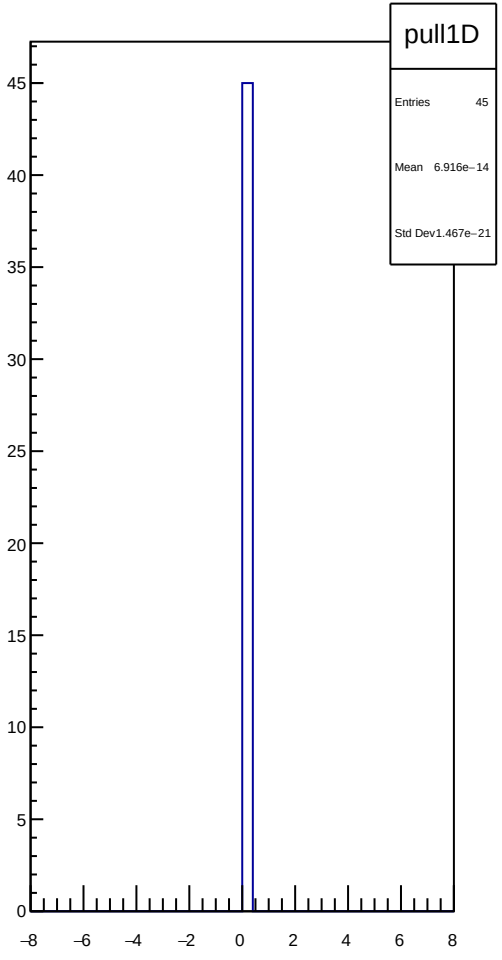

pull1D
Entries 45
Mean 1.466e−13
Std Dev6.108e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

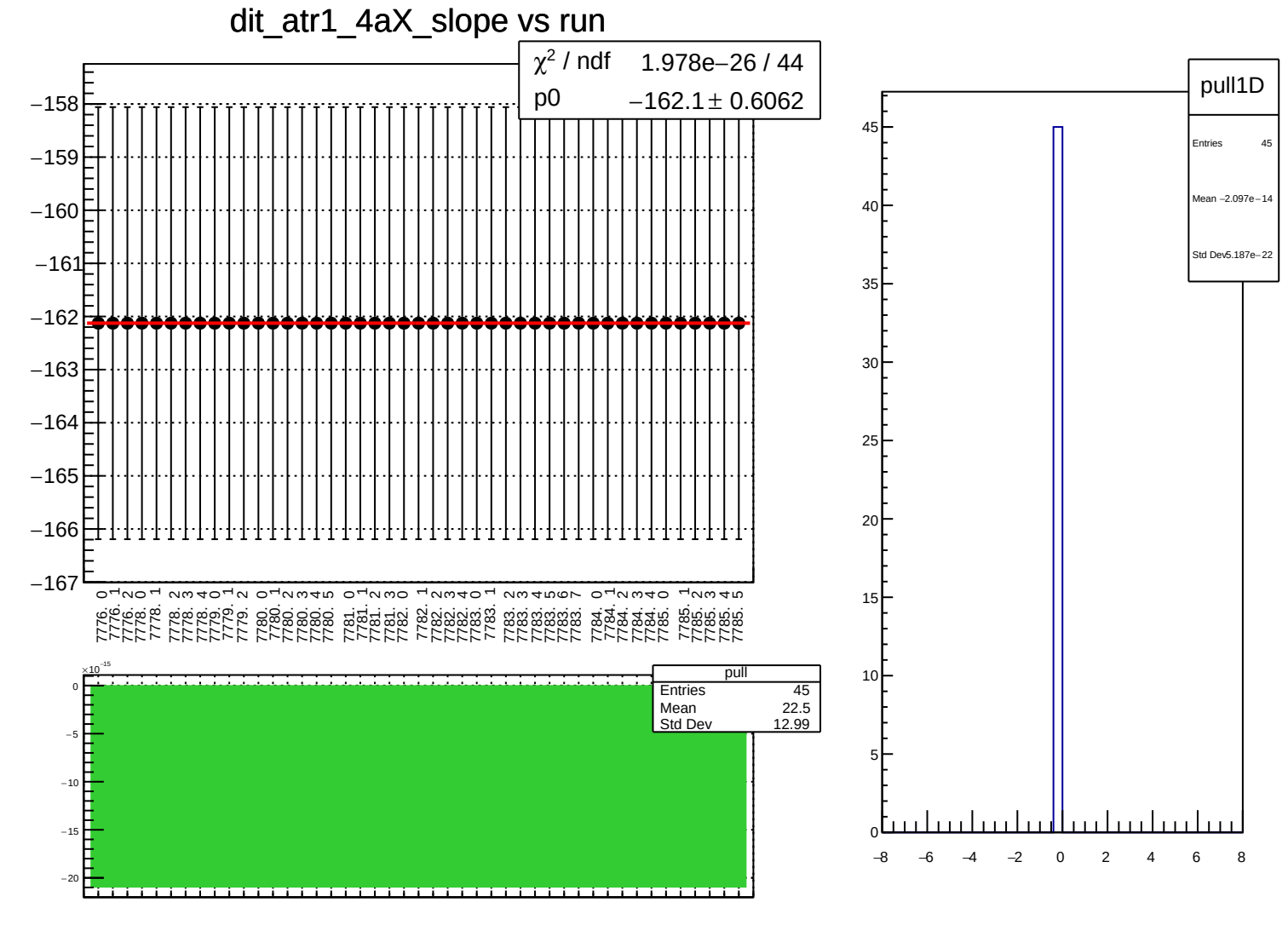

dit_atl2_11X12X_slope vs run
χ² / ndf 1.421e−24 / 44
p0 −260.2 ± 0.09537
−259.6
−259.8
−260
−260.2
−260.4
−260.6
−260.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

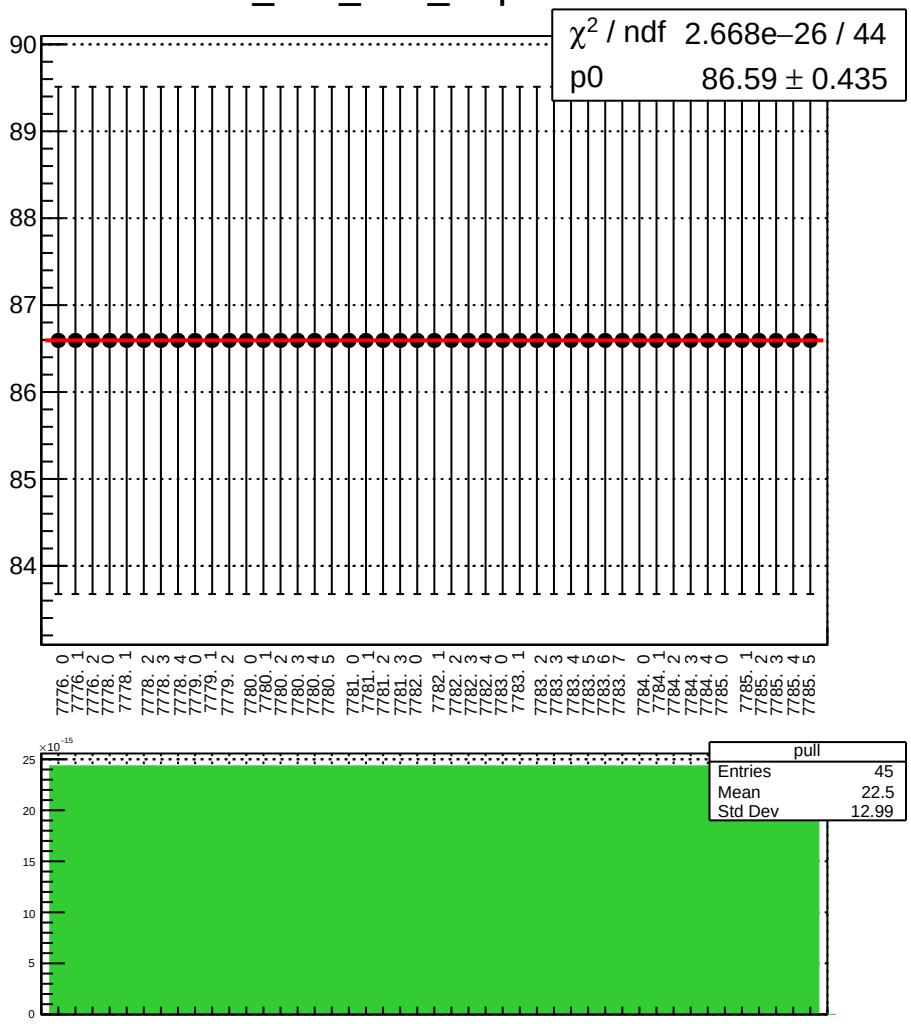

pull1D
Entries 45
Mean 1.777e−13
Std Dev5.868e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

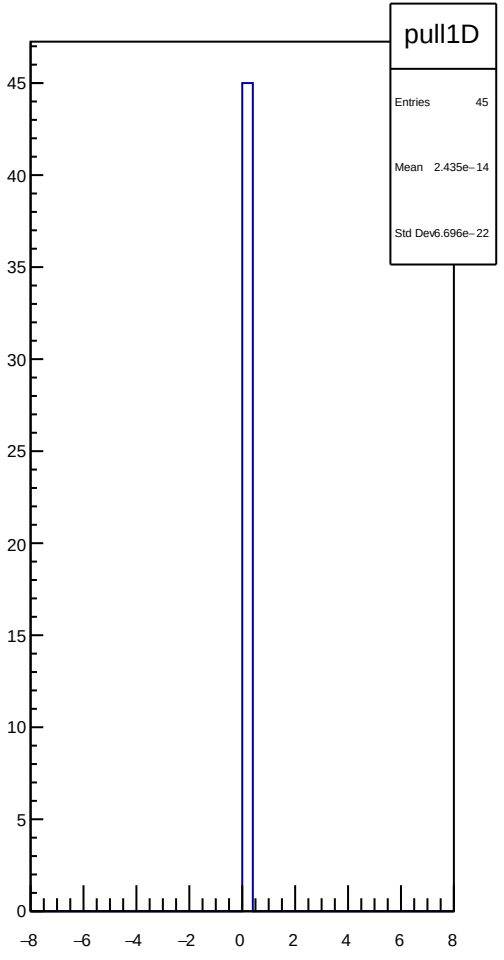

dit_atl2_4aY_slope vs run
χ² / ndf 1.049e−26 / 44
p0 36.19 ± 0.2774
38
37.5
37
36.5
36
35.5
35
34.5
34
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −1.527e−14
Std Dev4.235e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

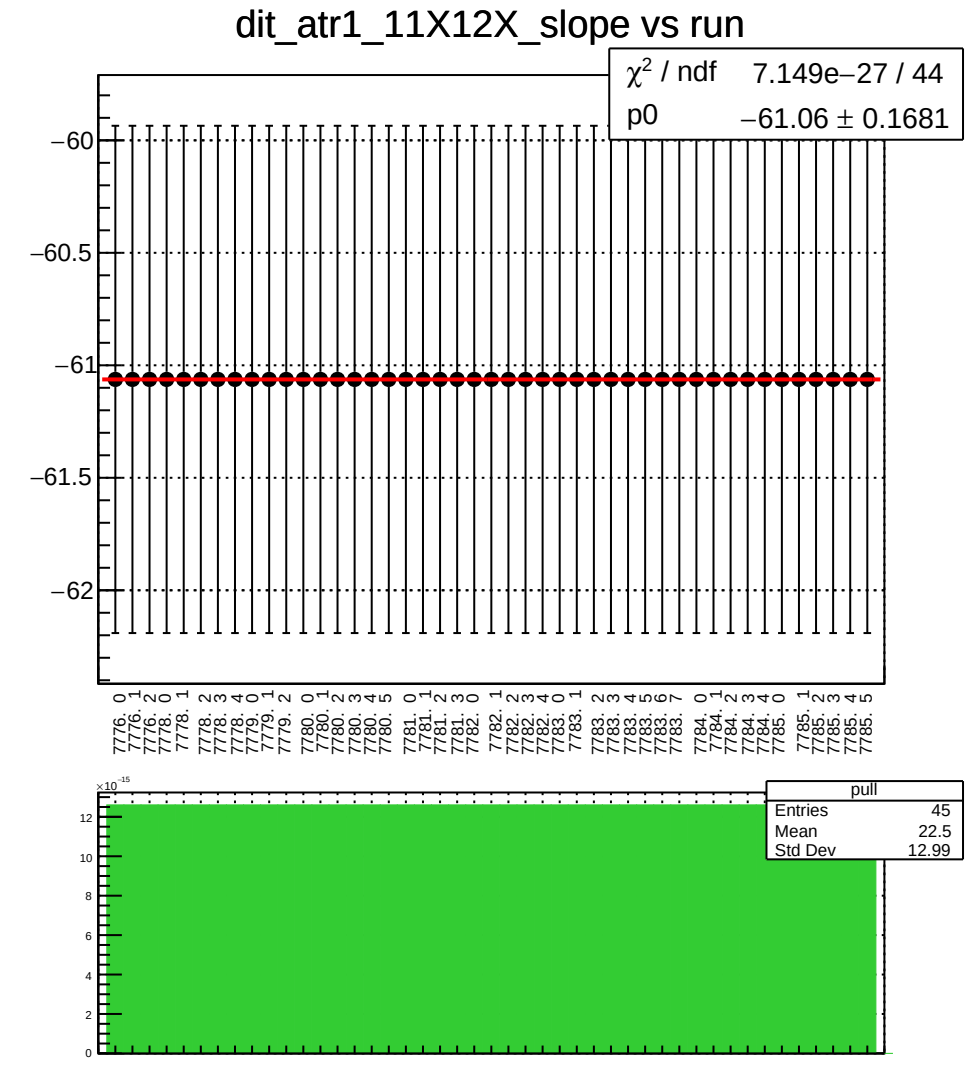

dit_atl2_4eY_slope vs run
χ² / ndf 2.152e−25 / 44
p0 105.9 ± 0.2757
108
107.5
107
106.5
106
105.5
105
104.5
104
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
70
60
50
40
30
20
10
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

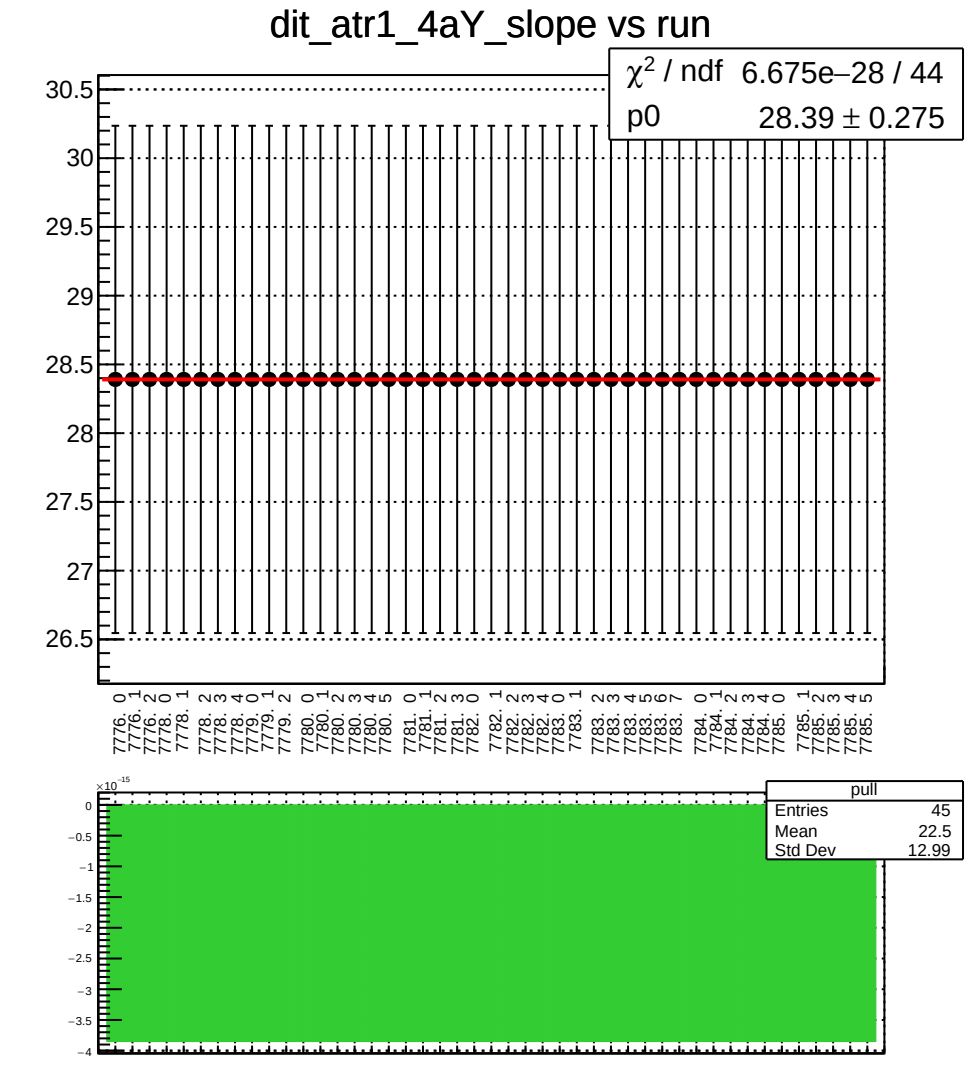

pull1D
Entries 45
Mean 6.916e−14
Std Dev1.467e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

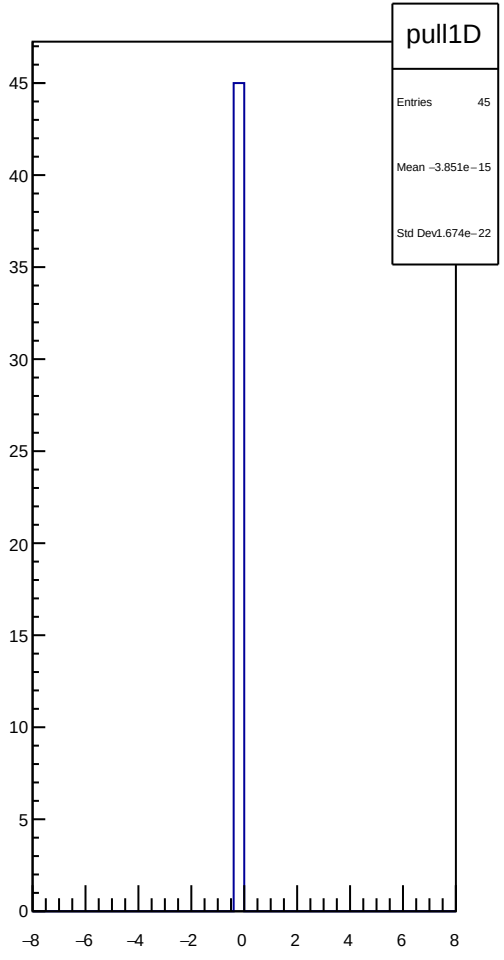

dit_atr1_4aX_slope vs run
χ^2 / ndf 1.978e−26 / 44
p0 −162.1 ± 0.6062
−158
−159
−160
−161
−162
−163
−164
−165
−166
−167
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10 -15
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −2.097e−14
Std Dev5.187e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_4eX_slope vs run
χ² / ndf 2.668e−26 / 44
p0 86.59 ± 0.435
90
89
88
87
86
85
84
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean 2.435e−14
Std Dev 6.696e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_11X12X_slope vs run
χ² / ndf 7.149e−27 / 44
p0 −61.06 ± 0.1681
−60
−60.5
−61
−61.5
−62
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.26e−14
Std Dev1.497e−22


dit_atr1_4aY_slope vs run
χ^2 / ndf 6.675e−28 / 44
p0 28.39 ± 0.275
30.5
30
29.5
29
28.5
28
27.5
27
26.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −3.851e−15
Std Dev1.674e−22
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40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
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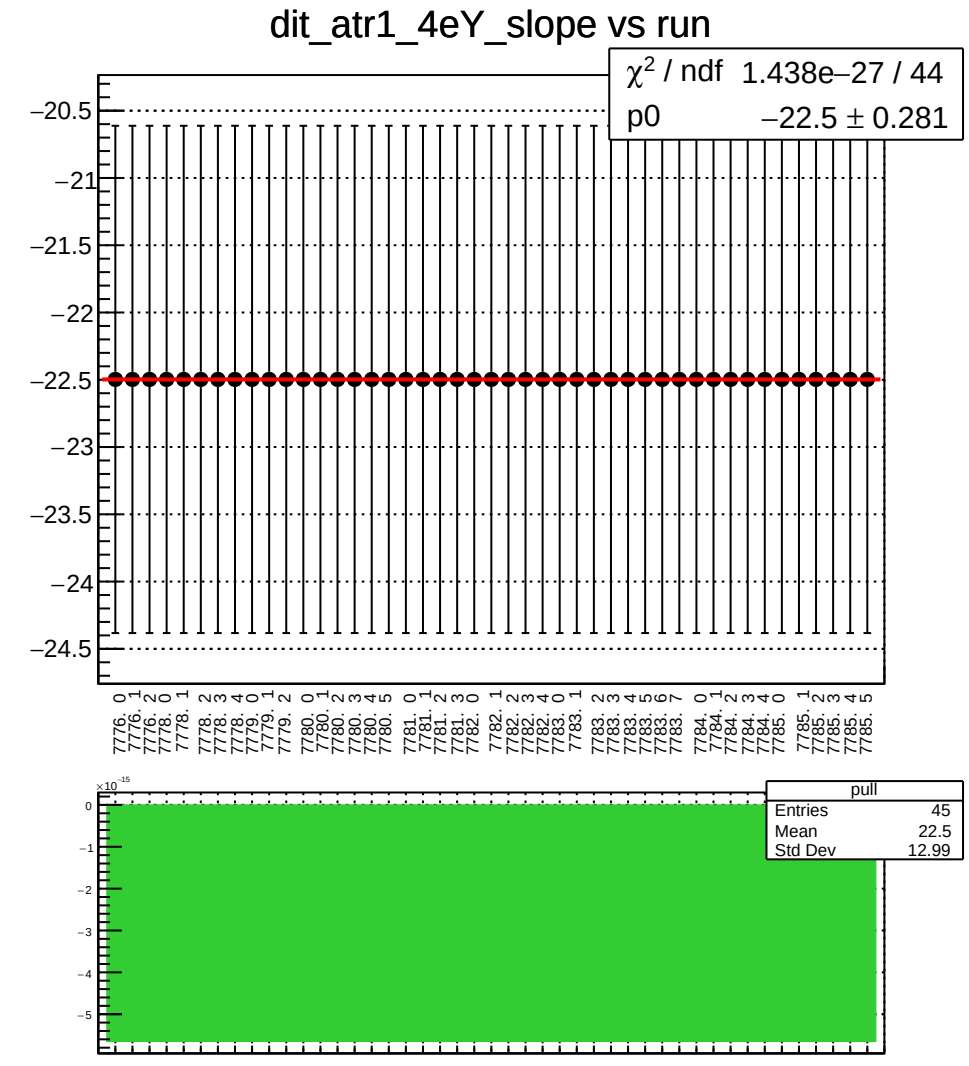
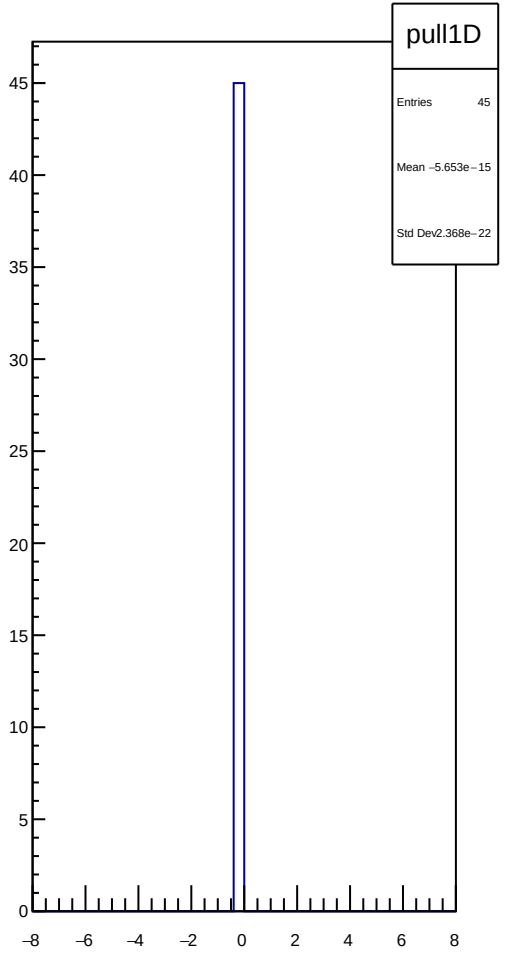
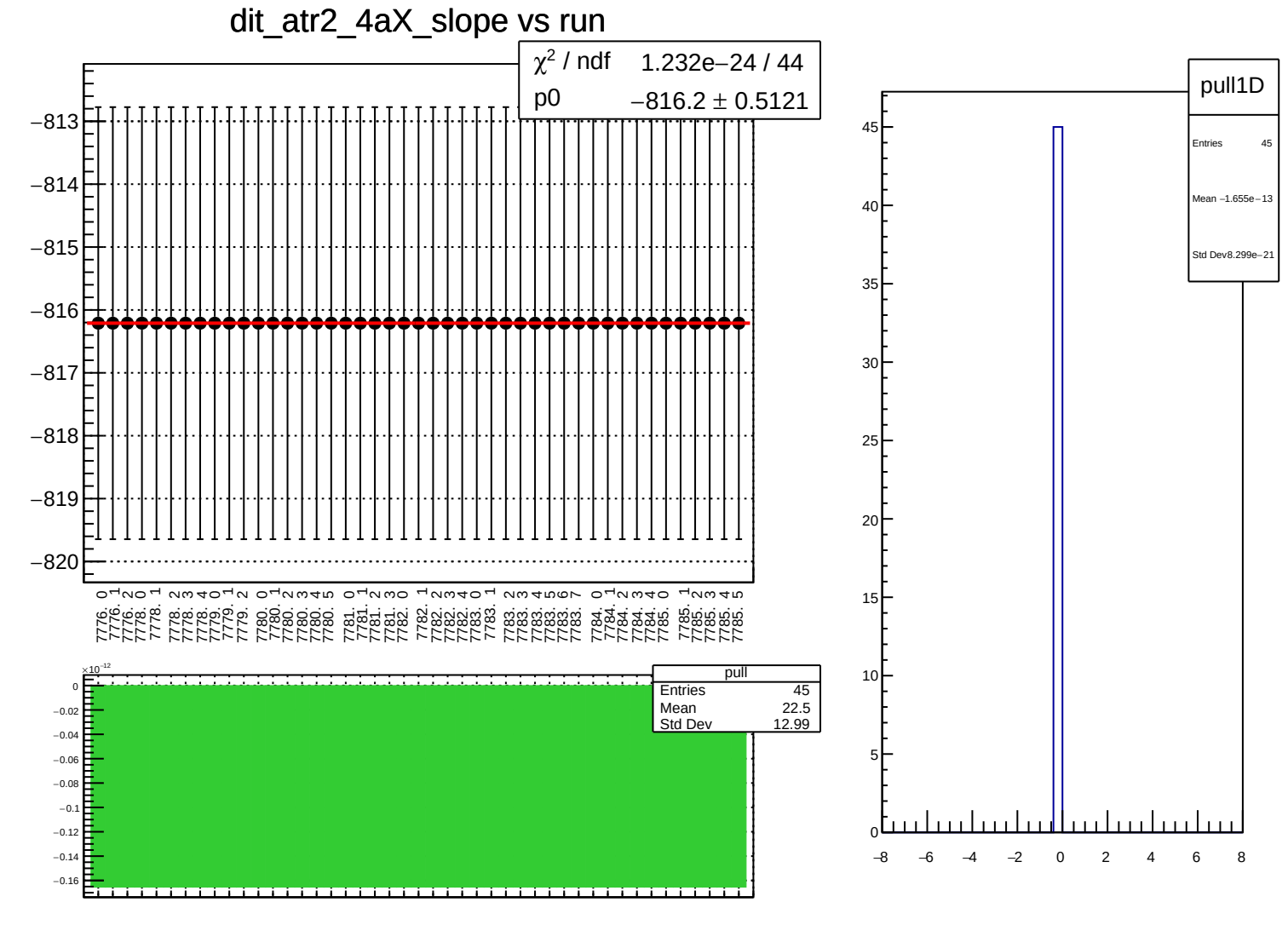
2
4
6
8


dit_atr1_4eY_slope vs run
χ^2 / ndf 1.438e−27 / 44
p0 −22.5 ± 0.281
−20.5
−21
−21.5
−22
−22.5
−23
−23.5
−24
−24.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−1
−2
−3
−4
−5
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −5.653e−15
Std Dev 2.368e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_4aX_slope vs run
χ² / ndf 1.232e−24 / 44
p0 −816.2 ± 0.5121
−813
−814
−815
−816
−817
−818
−819
−820
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
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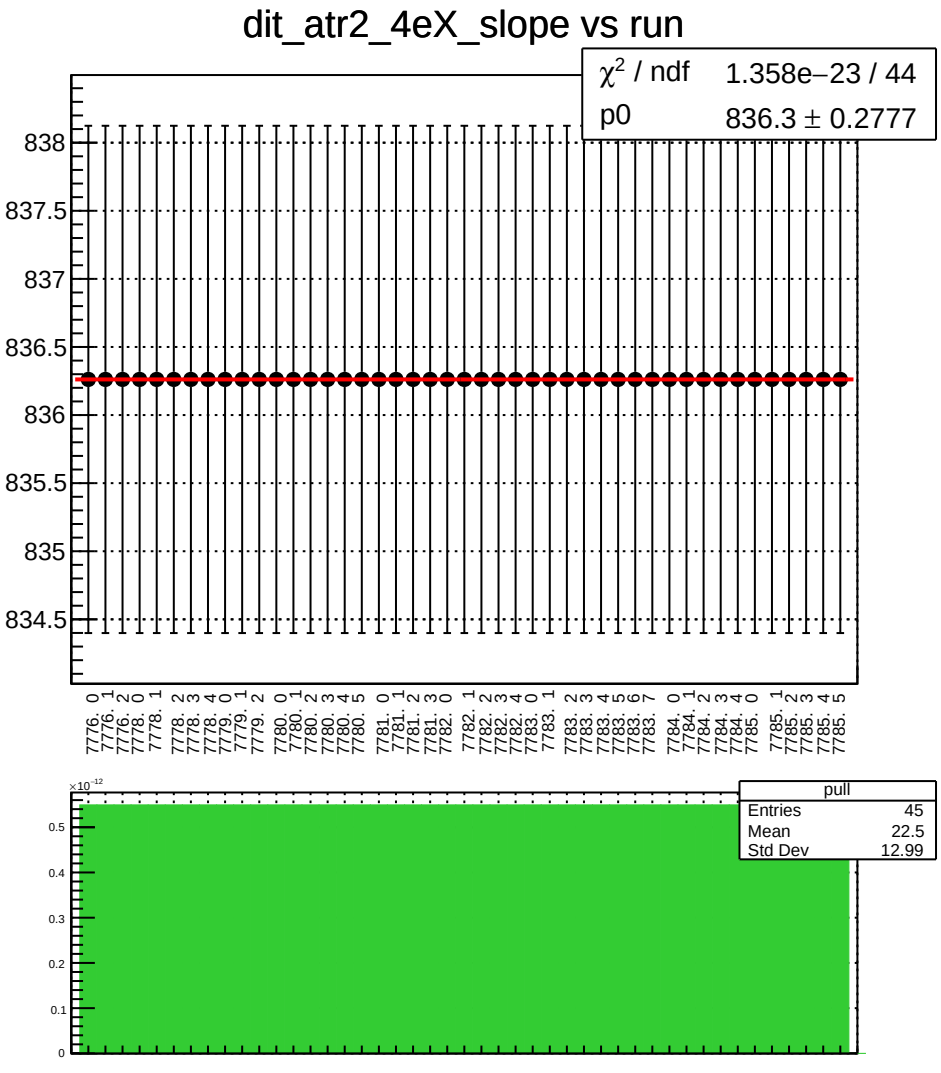
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −1.655e−13
Std Dev8.299e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_4eX_slope vs run
χ² / ndf 1.358e−23 / 44
p0 836.3 ± 0.2777
838
837.5
837
836.5
836
835.5
835
834.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
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7780. 2
7780. 3
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7780. 5
7781. 0
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7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
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7782. 4
7783. 0
7783. 1
7783. 2
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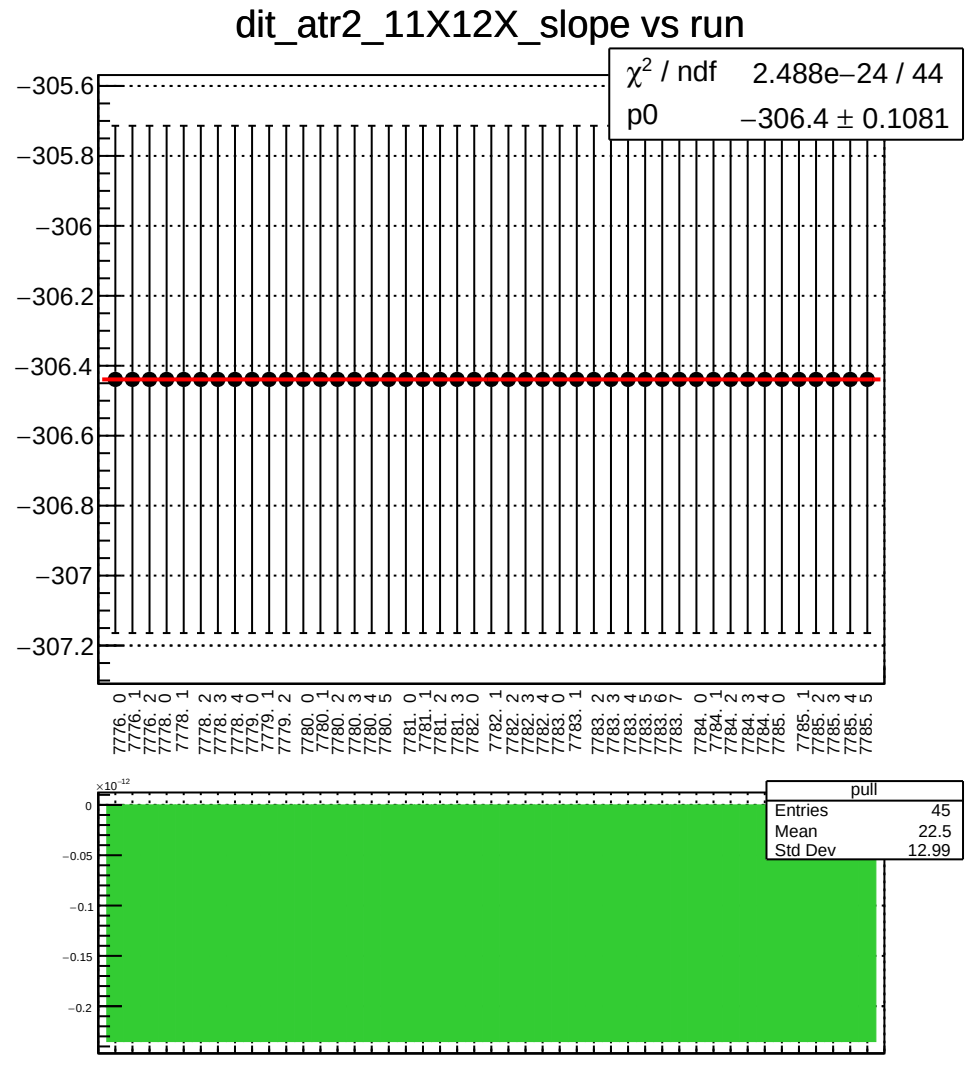
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�¹²
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 5.493e−13
Std Dev1.174e−20
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr2_11X12X_slope vs run
χ² / ndf 2.488e−24 / 44
p0 −306.4 ± 0.1081
−305.6
−305.8
−306
−306.2
−306.4
−306.6
−306.8
−307
−307.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
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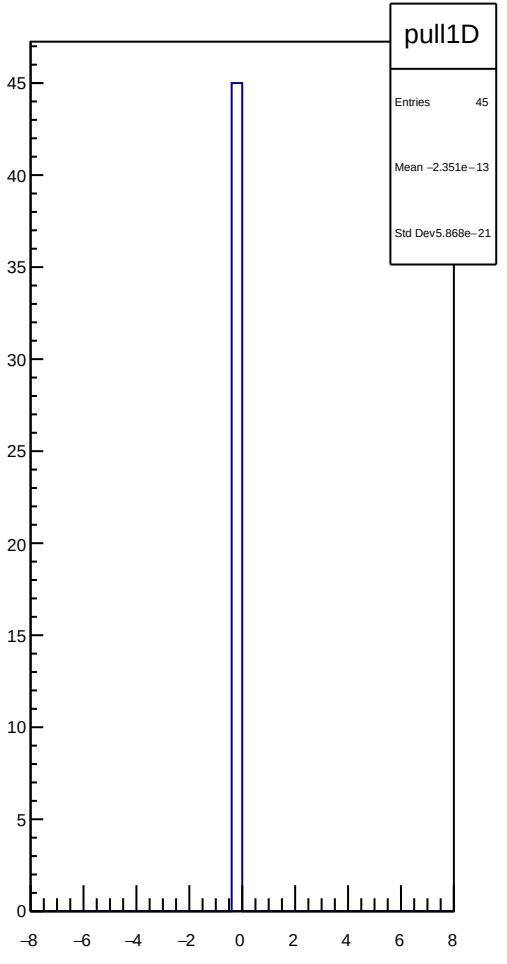
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�¹²
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −2.351e−13
Std Dev5.868e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
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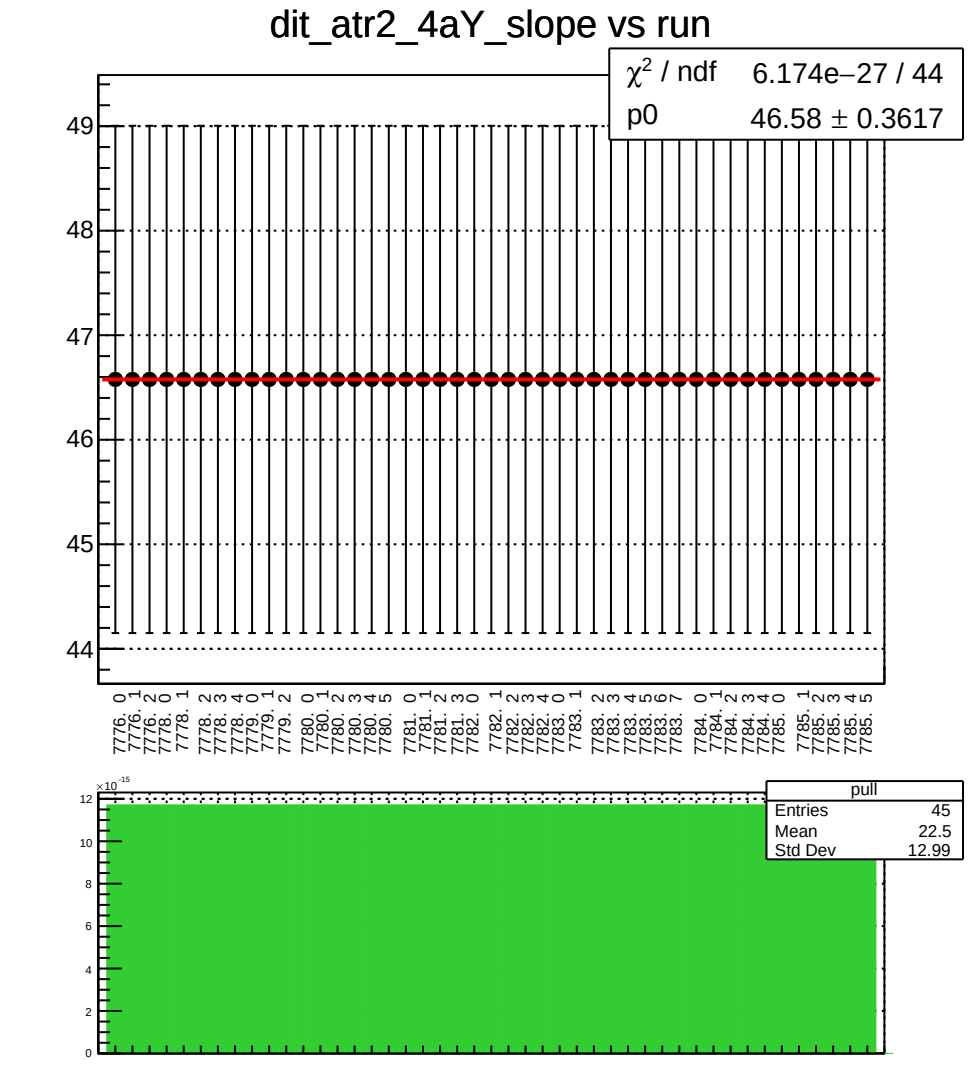
0
2
4
6
8


dit_atr2_4aY_slope vs run
χ² / ndf 6.174e−27 / 44
p0 46.58 ± 0.3617
49
48
47
46
45
44
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
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7779. 0
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7779. 2
7780. 0
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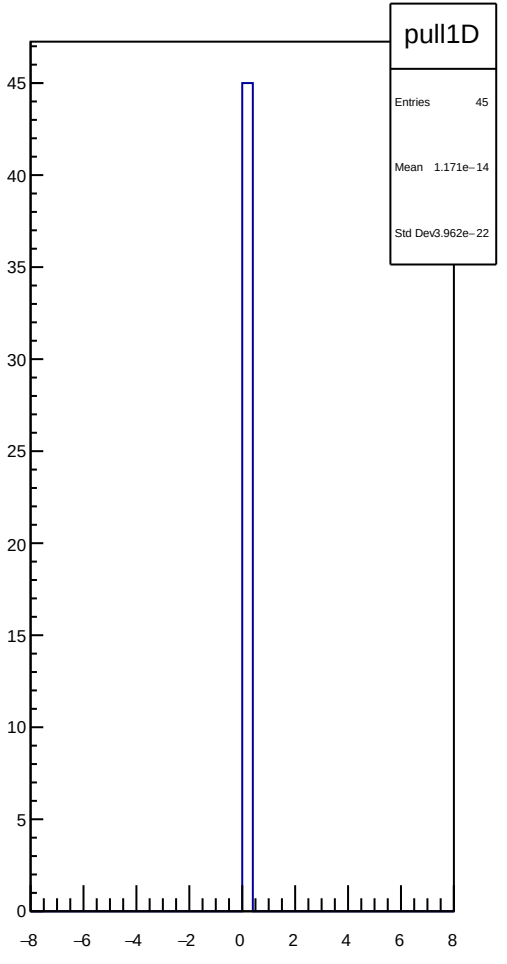
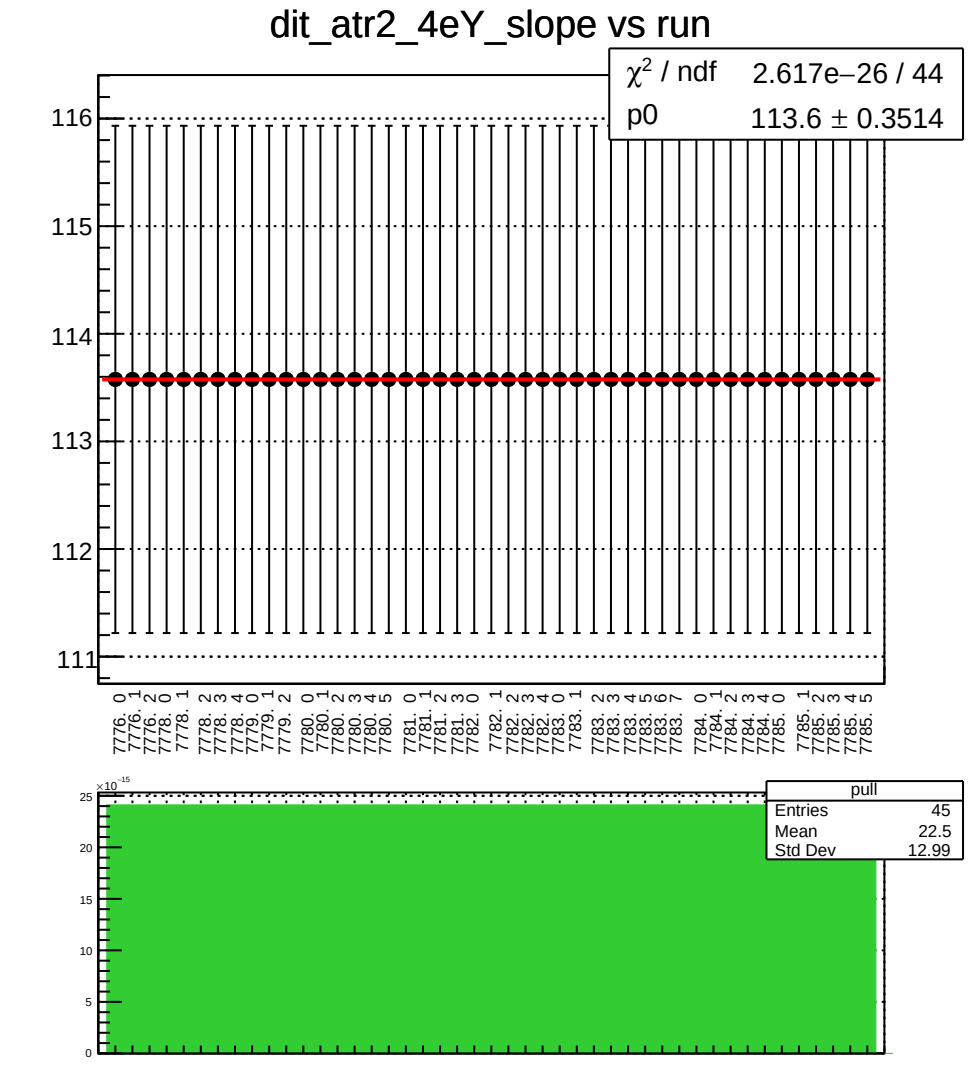
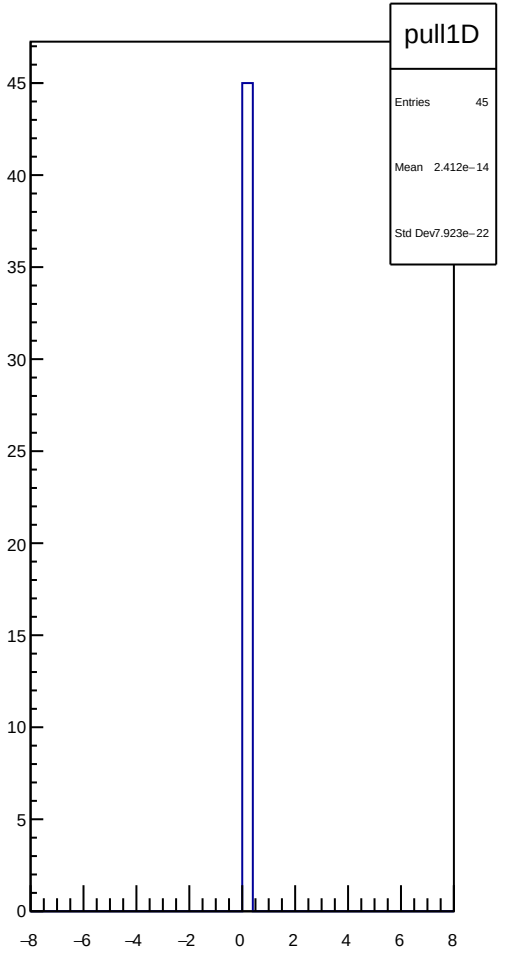
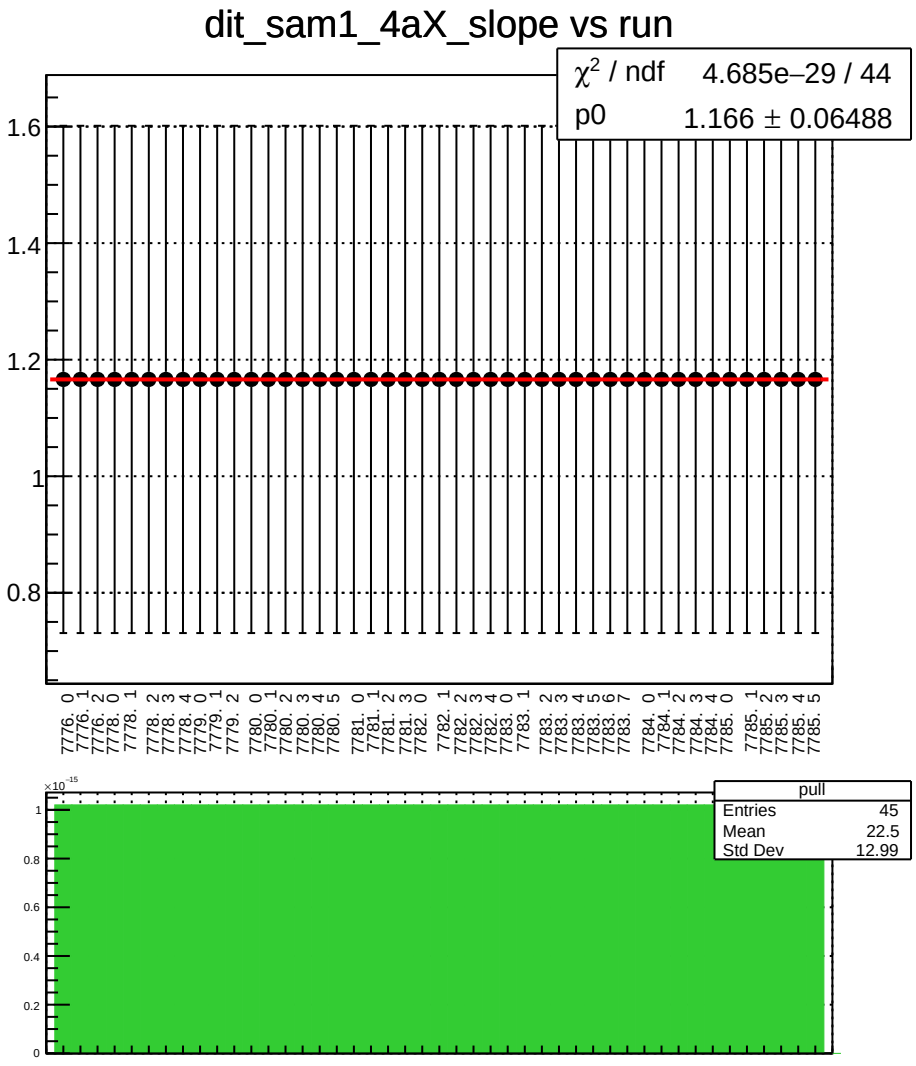
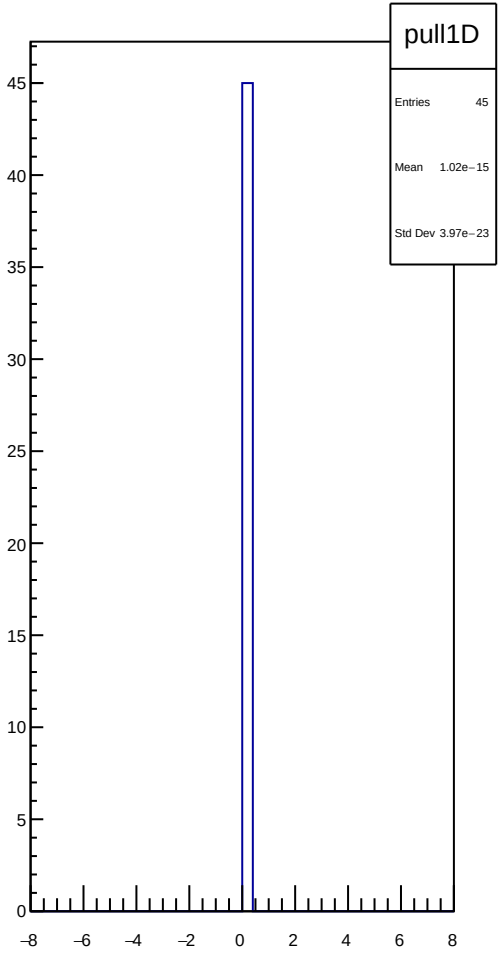
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

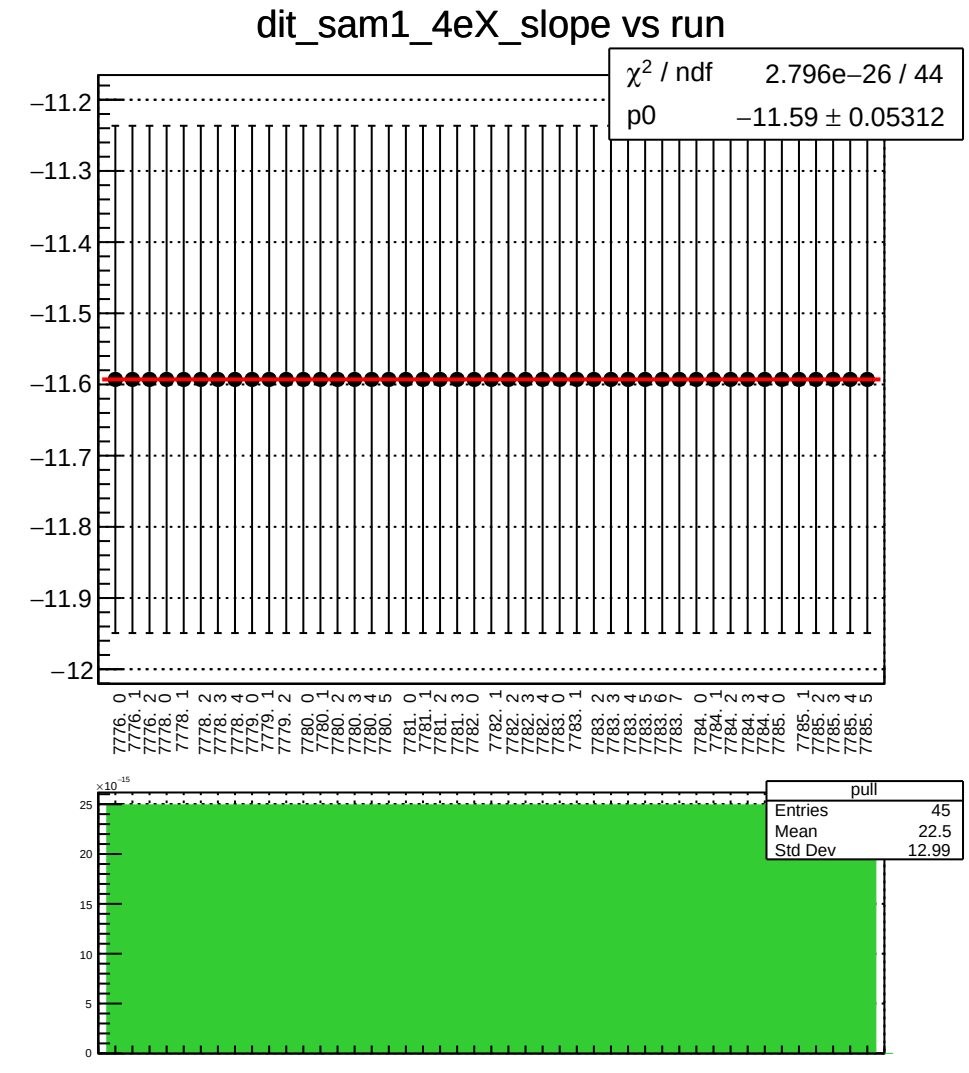

pull1D
Entries 45
Mean 1.171e−14
Std Dev3.962e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

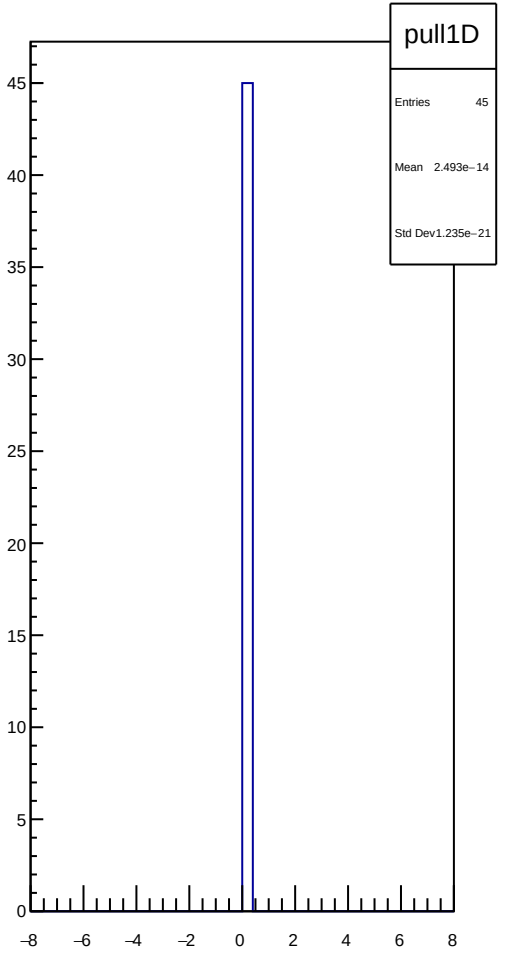

dit_atr2_4eY_slope vs run
χ² / ndf 2.617e−26 / 44
p0 113.6 ± 0.3514
116
115
114
113
112
111
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

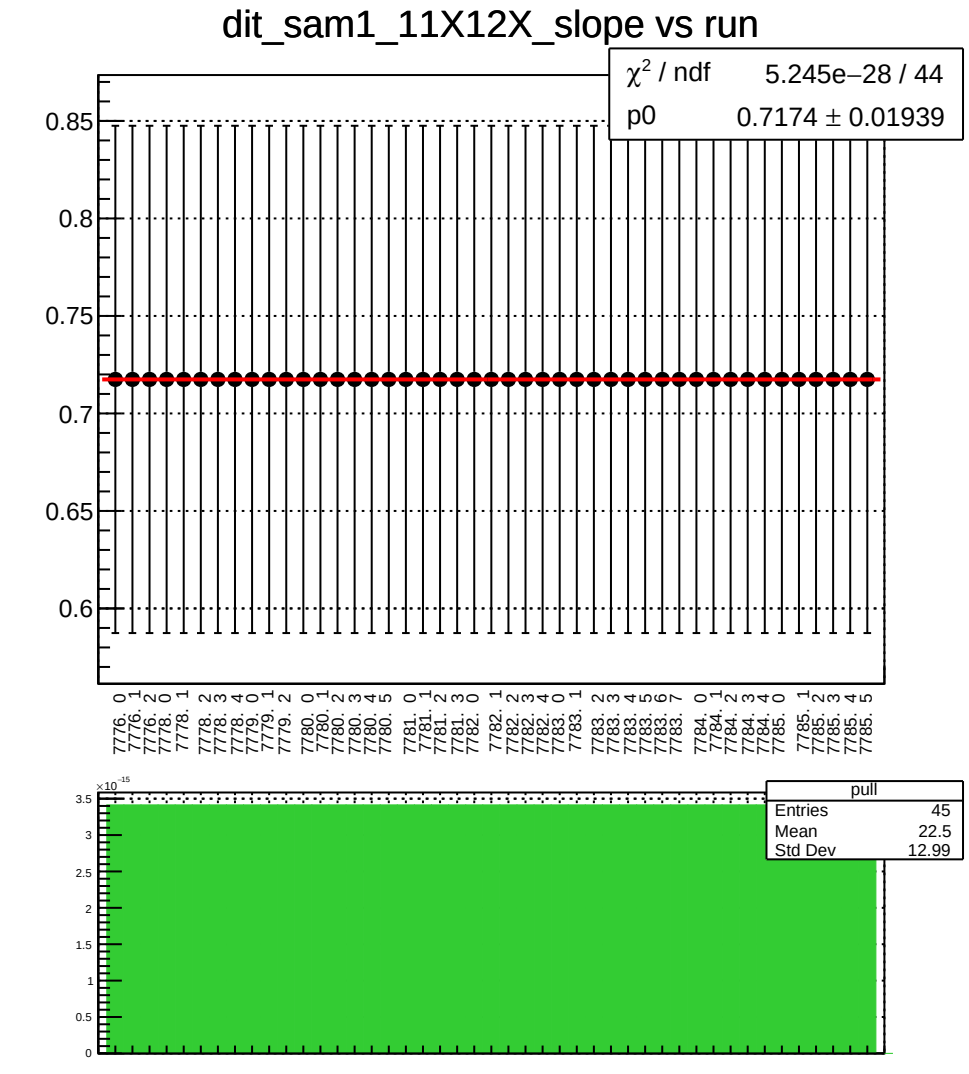

pull1D
Entries 45
Mean 2.412e−14
Std Dev7.923e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

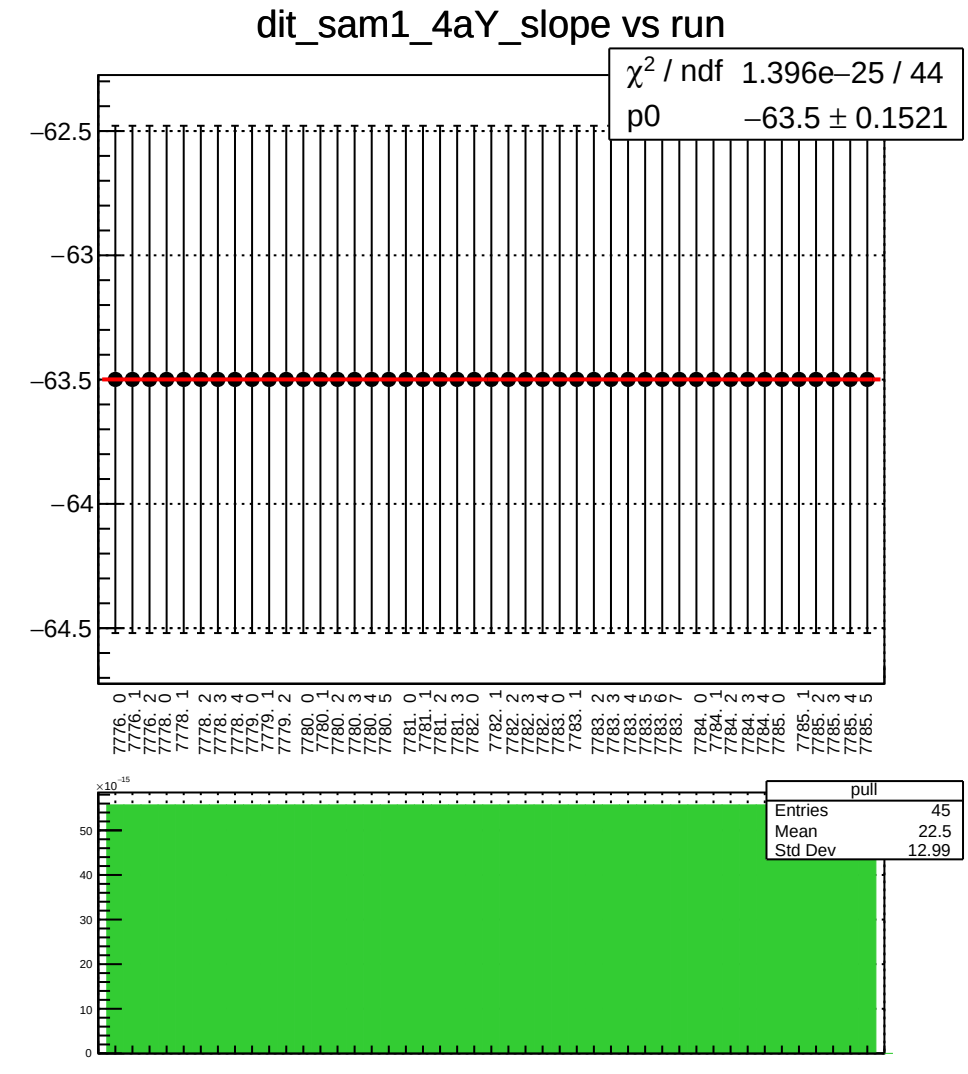

dit_sam1_4aX_slope vs run
χ² / ndf 4.685e−29 / 44
p0 1.166 ± 0.06488
1.6
1.4
1.2
1
0.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

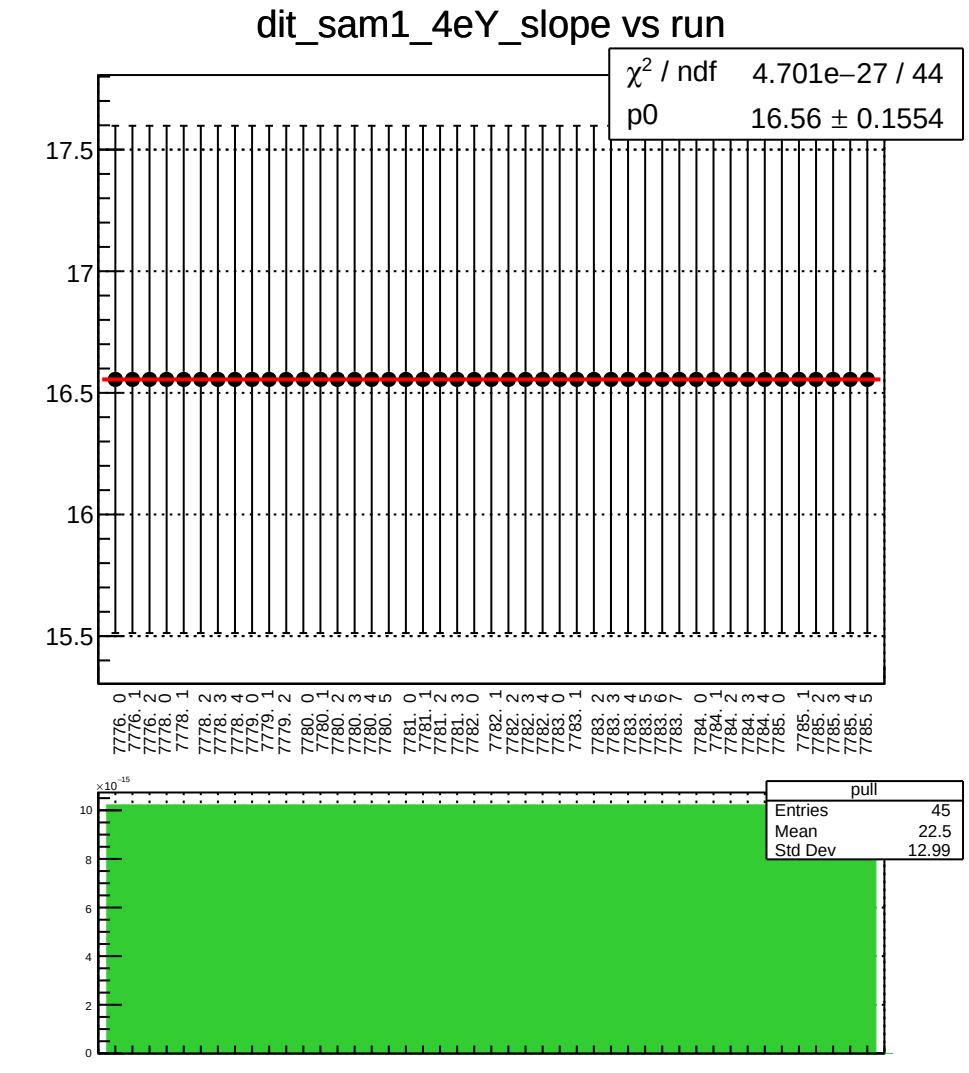

pull1D
Entries 45
Mean 1.02e−15
Std Dev 3.97e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

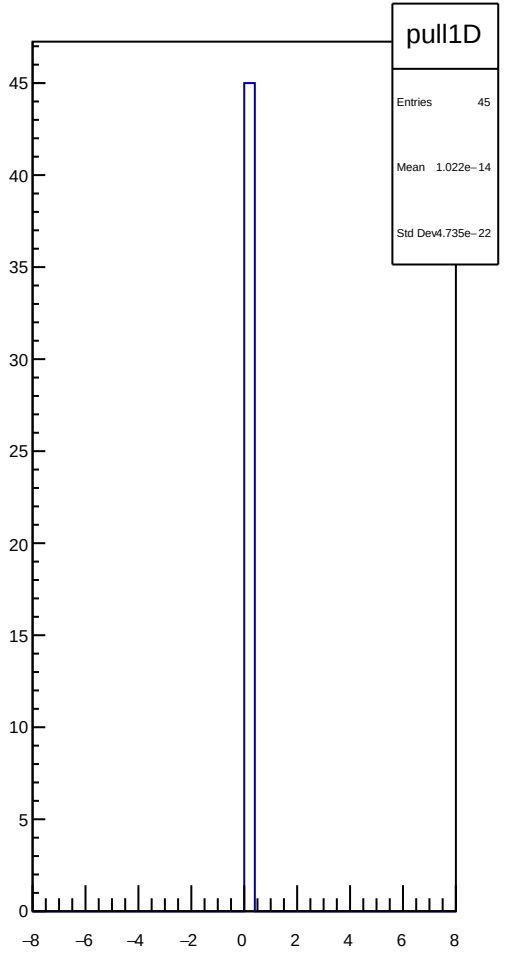

dit_sam1_4eX_slope vs run
χ² / ndf 2.796e−26 / 44
p0 −11.59 ± 0.05312
−11.2
−11.3
−11.4
−11.5
−11.6
−11.7
−11.8
−11.9
−12
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

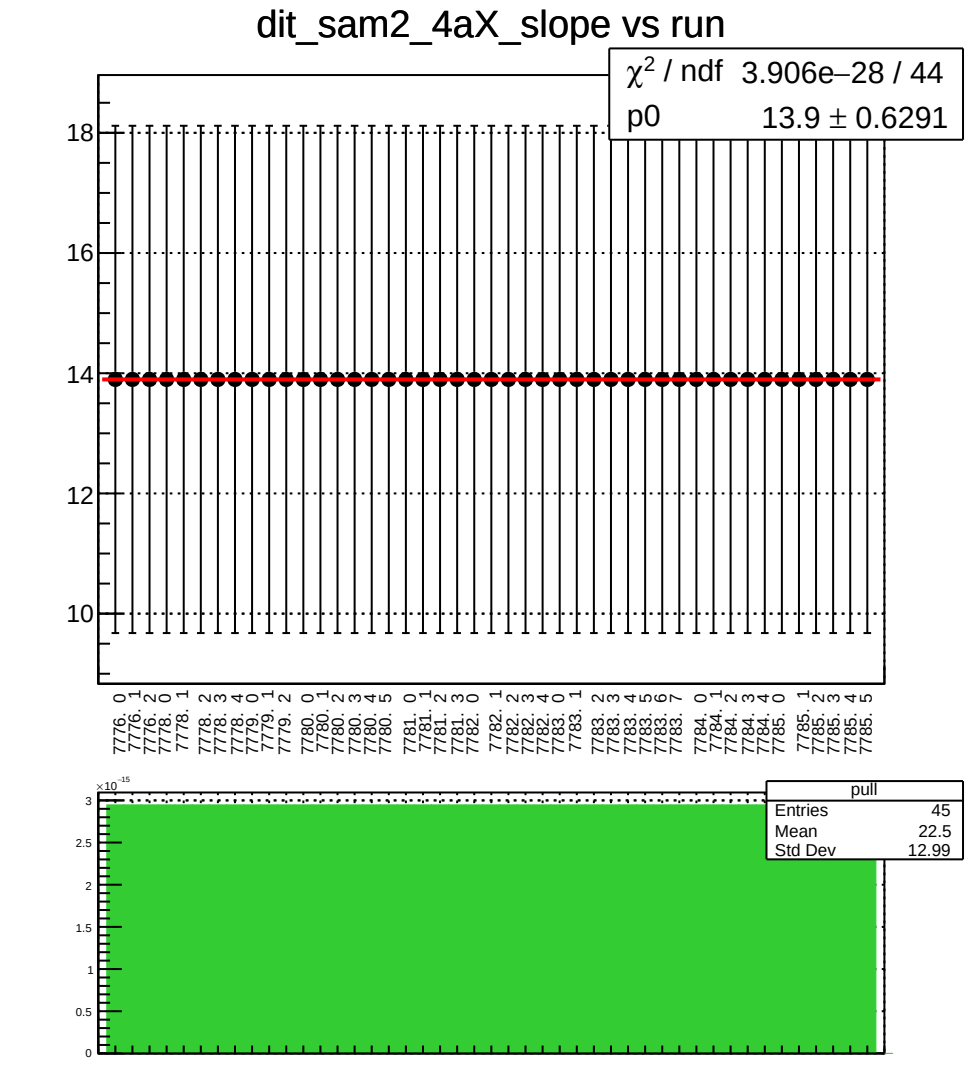

pull1D
Entries 45
Mean 2.493e−14
Std Dev1.235e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

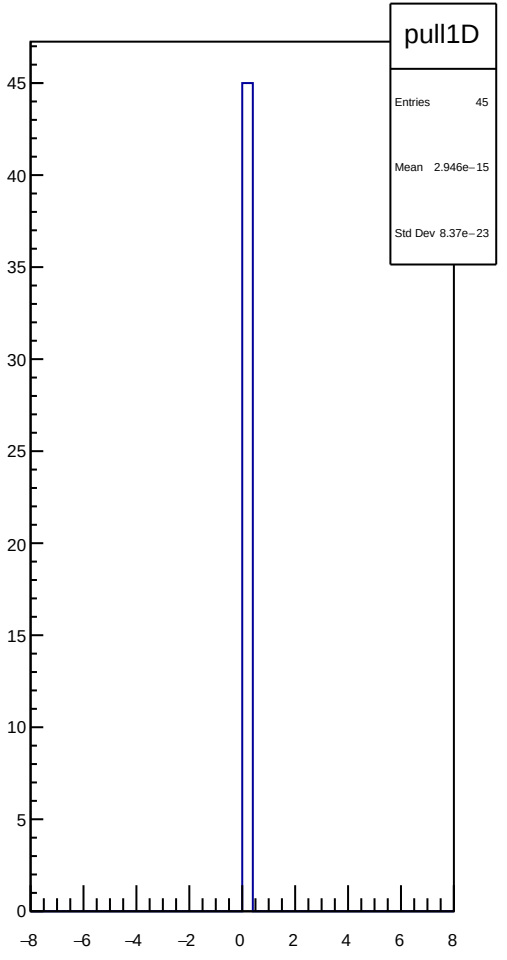

dit_sam1_11X12X_slope vs run
χ² / ndf 5.245e−28 / 44
p0 0.7174 ± 0.01939
0.85
0.8
0.75
0.7
0.65
0.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 3.414e−15
Std Dev 6.484e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

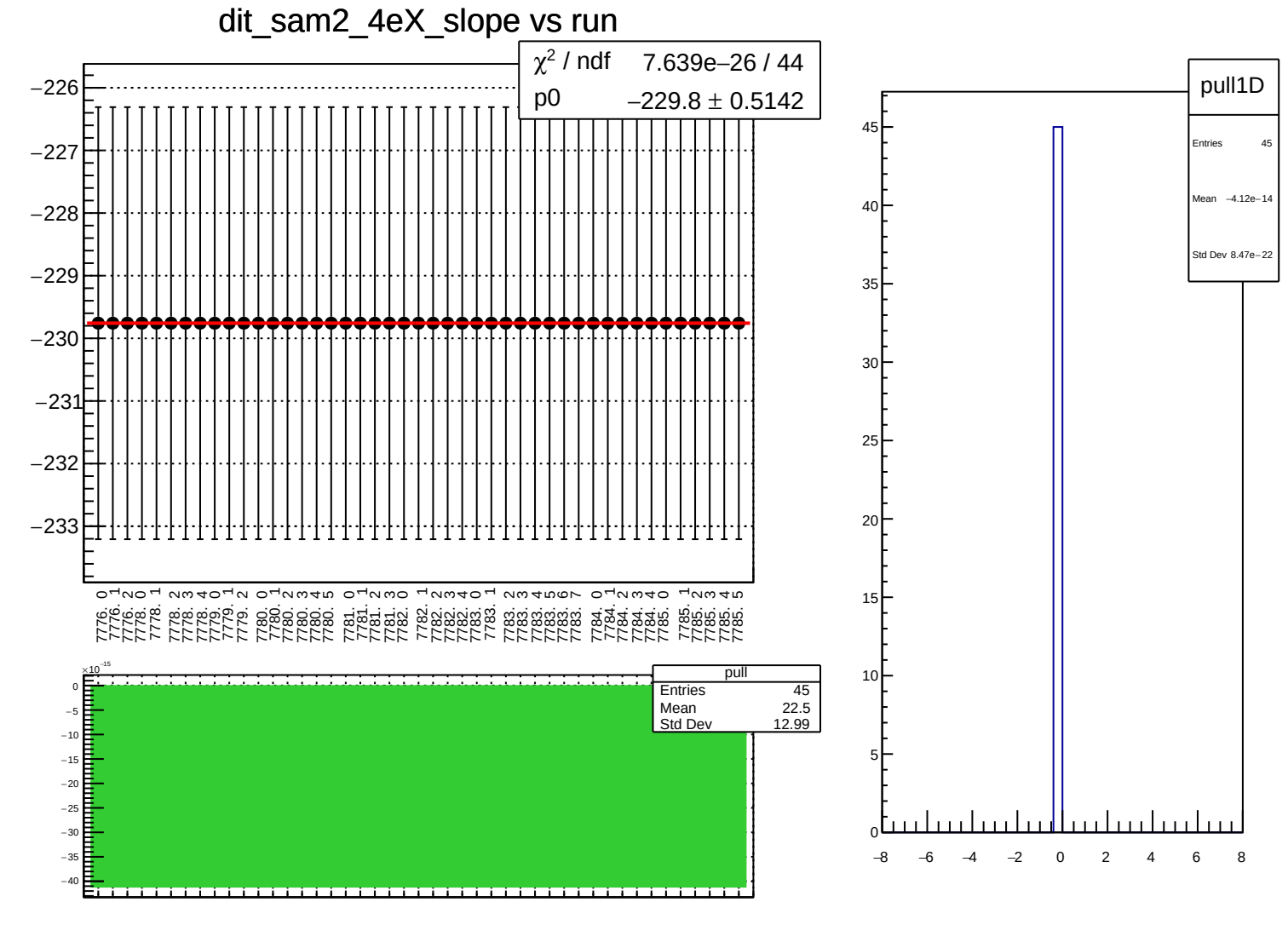

dit_sam1_4aY_slope vs run
χ² / ndf 1.396e−25 / 44
p0 −63.5 ± 0.1521
−62.5
−63
−63.5
−64
−64.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 5.57e−14
Std Dev 2.16e−21

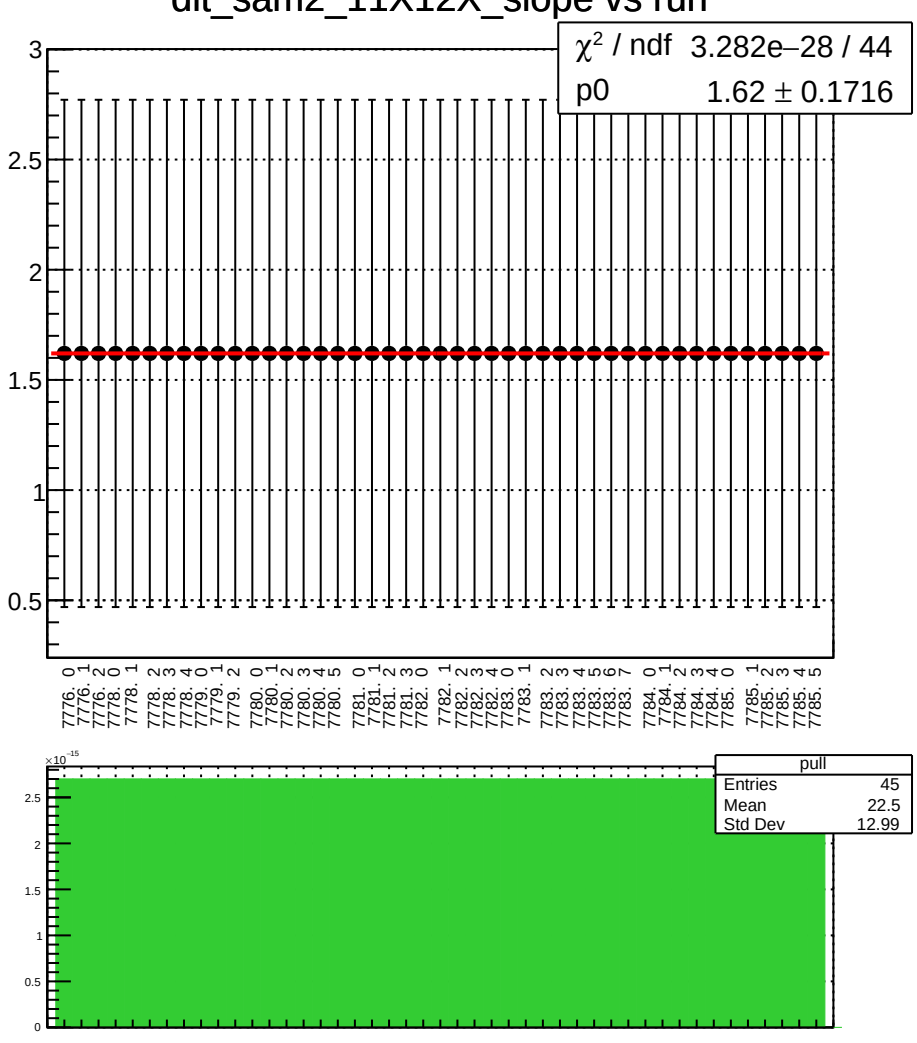

dit_sam1_4eY_slope vs run
χ² / ndf 4.701e−27 / 44
p0 16.56 ± 0.1554
17.5
17
16.5
16
15.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

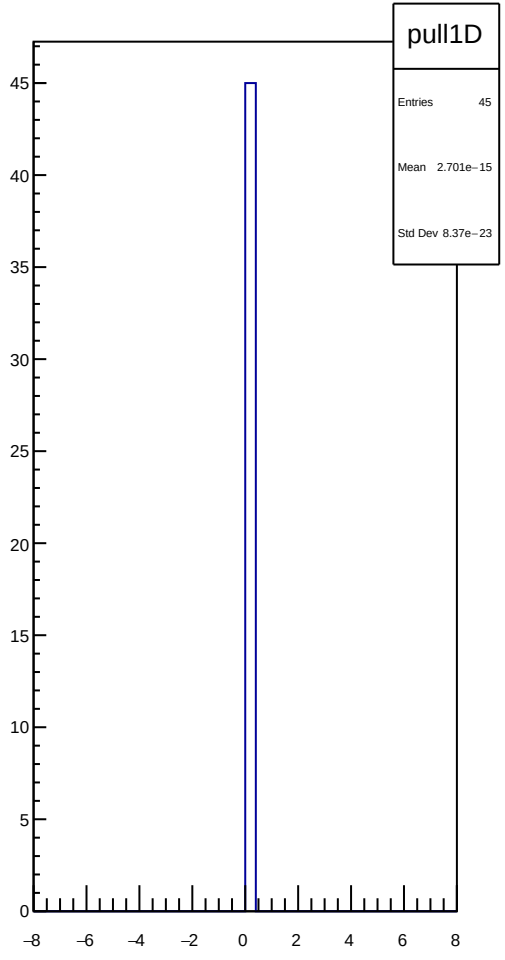

pull1D
Entries 45
Mean 1.022e−14
Std Dev4.735e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

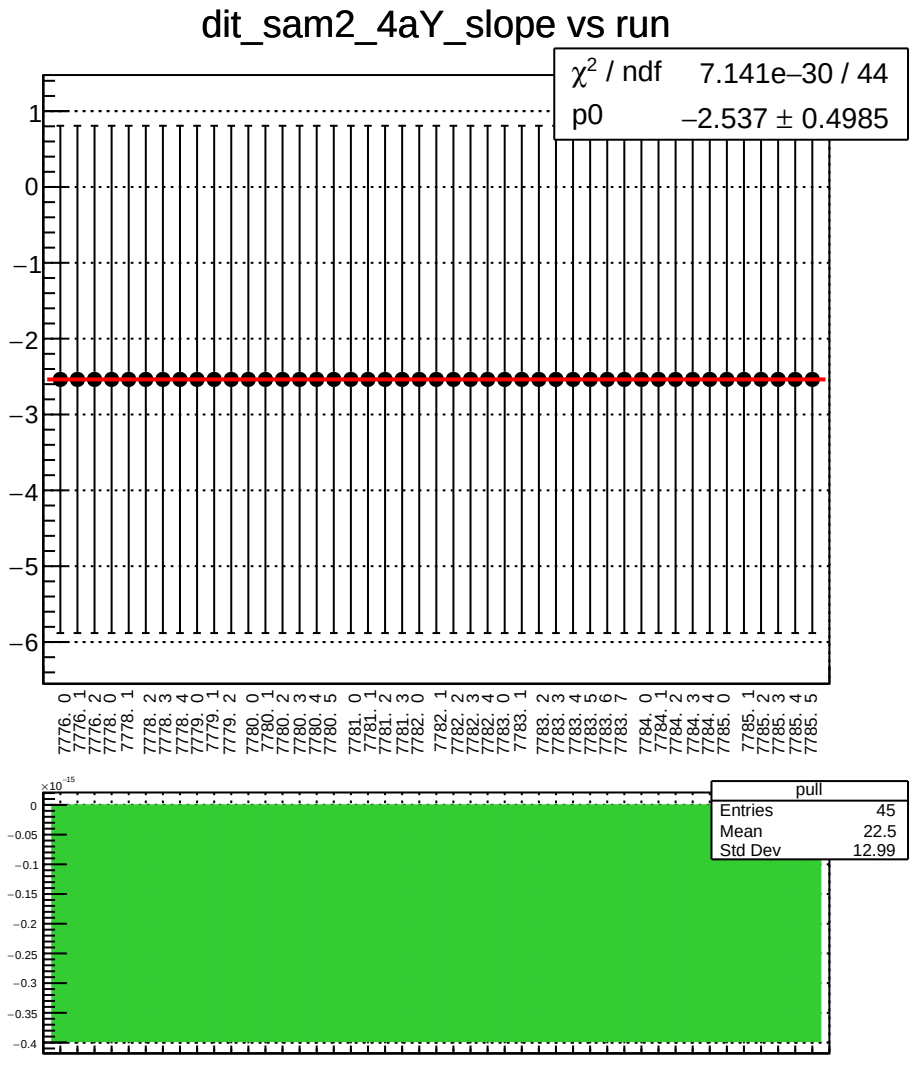

dit_sam2_4aX_slope vs run
χ² / ndf 3.906e−28 / 44
p0 13.9 ± 0.6291
18
16
14
12
10
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

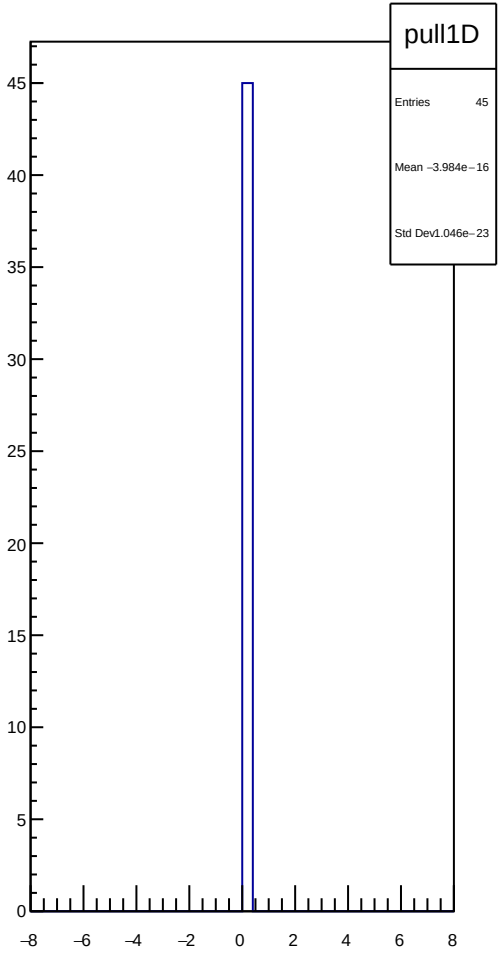

pull1D
Entries 45
Mean 2.946e−15
Std Dev 8.37e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

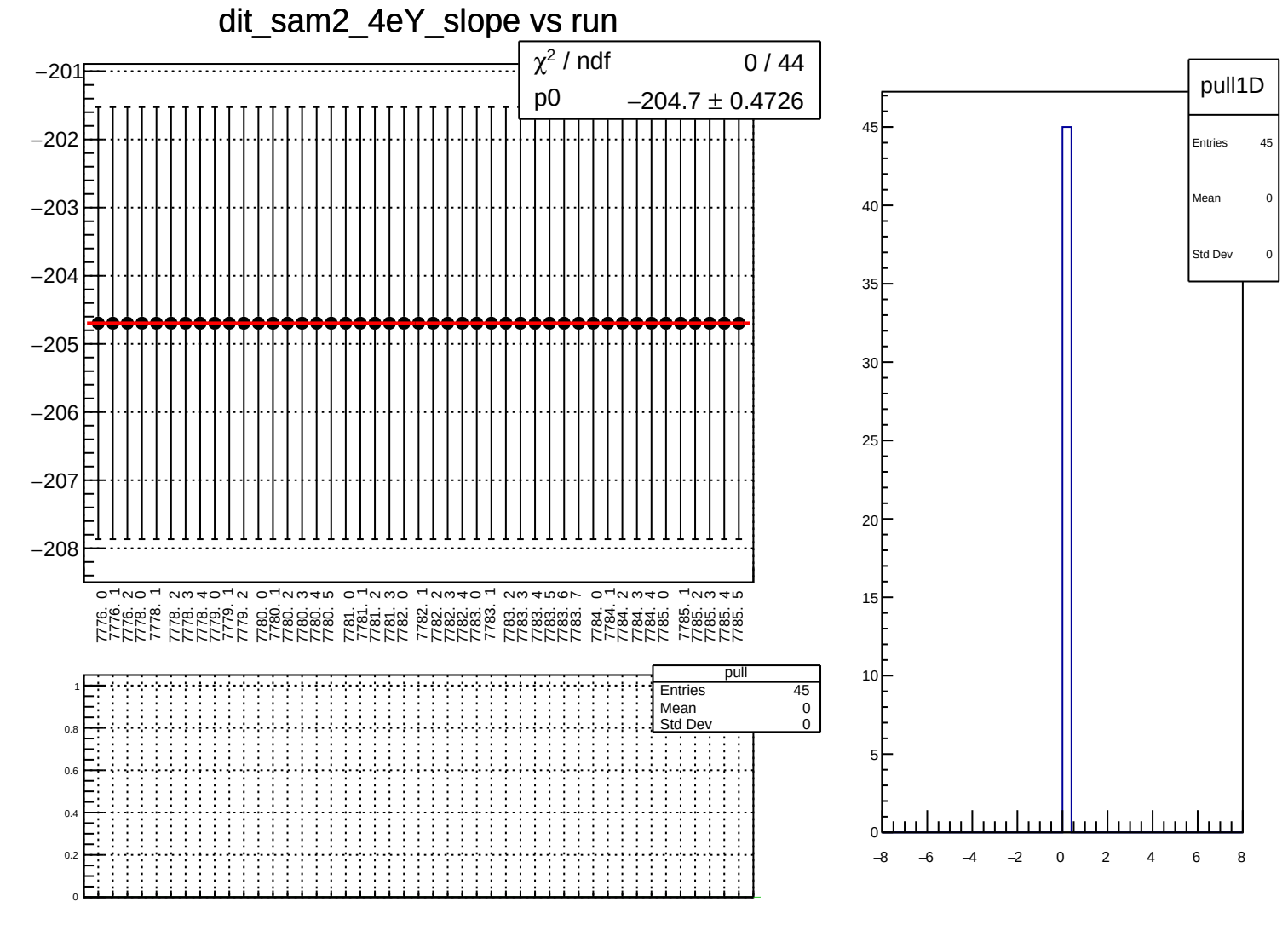

dit_sam2_4eX_slope vs run
χ² / ndf 7.639e−26 / 44
p0 −229.8 ± 0.5142
−226
−227
−228
−229
−230
−231
−232
−233
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −4.12e−14
Std Dev 8.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

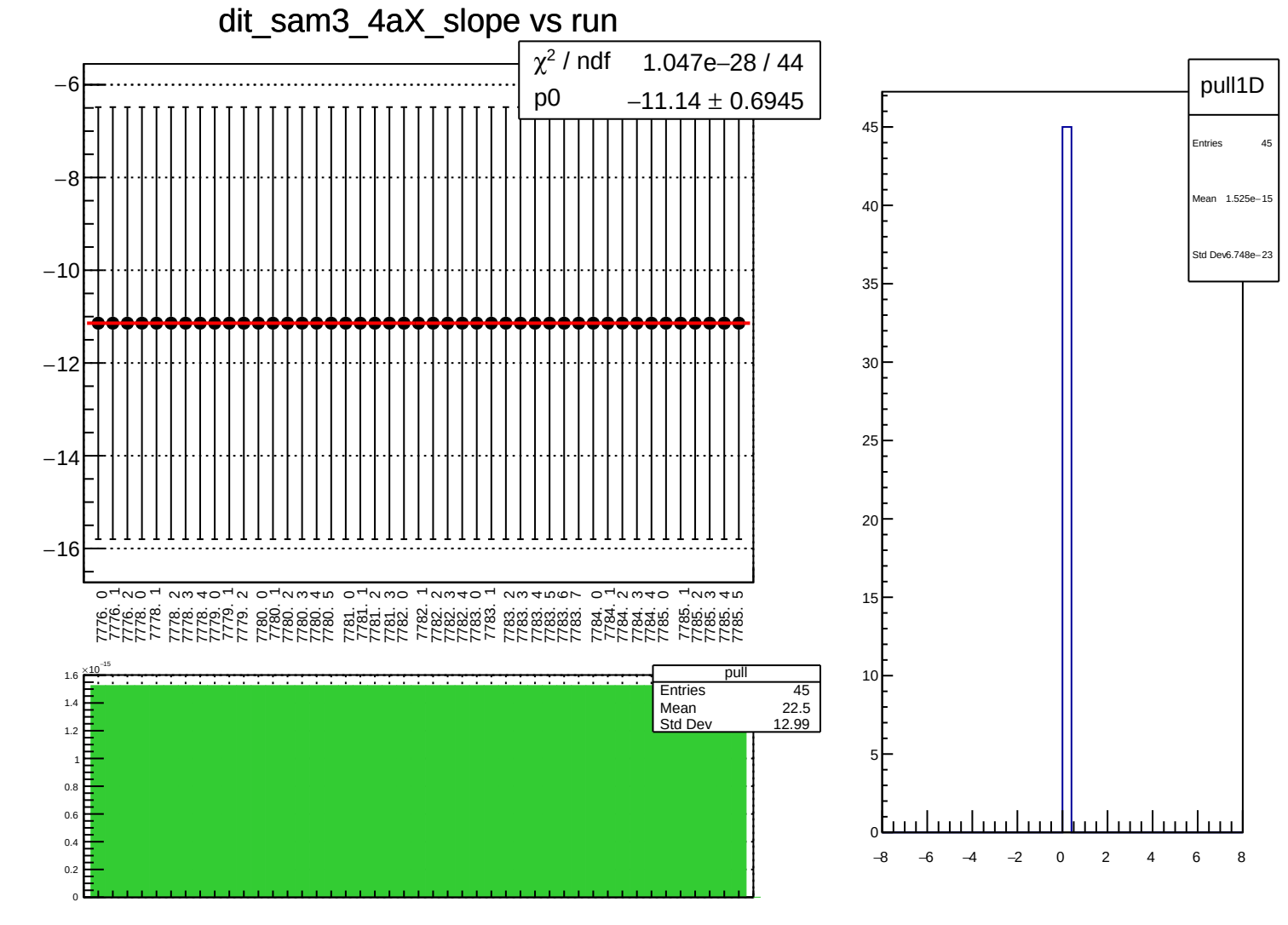

dit_sam2_11X12X_slope vs run
χ² / ndf 3.282e−28 / 44
p0 1.62 ± 0.1716
pull
Entries 45
Mean 22.5
Std Dev 12.99
×10⁻¹⁵

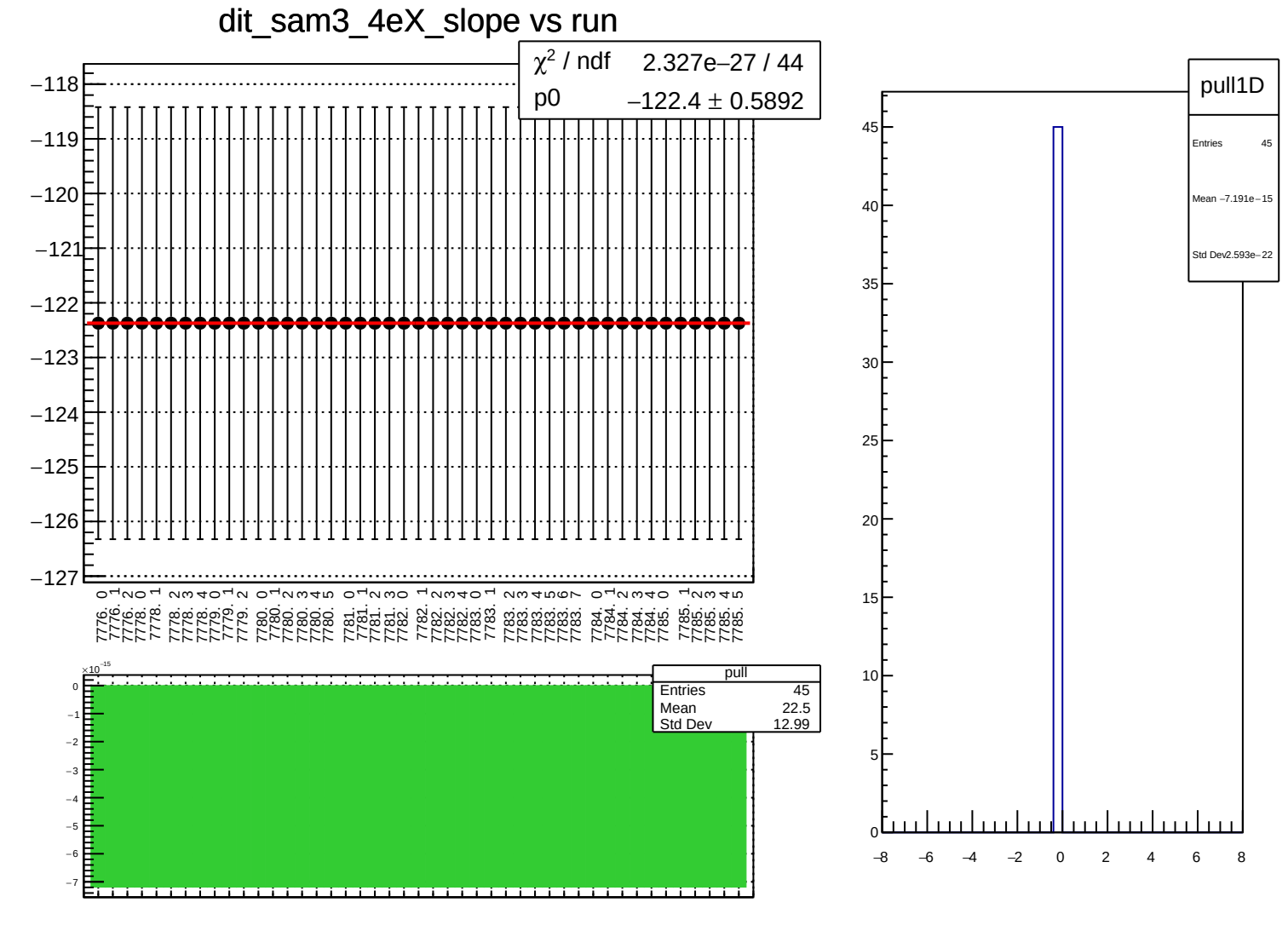

pull1D
Entries 45
Mean 2.701e−15
Std Dev 8.37e−23

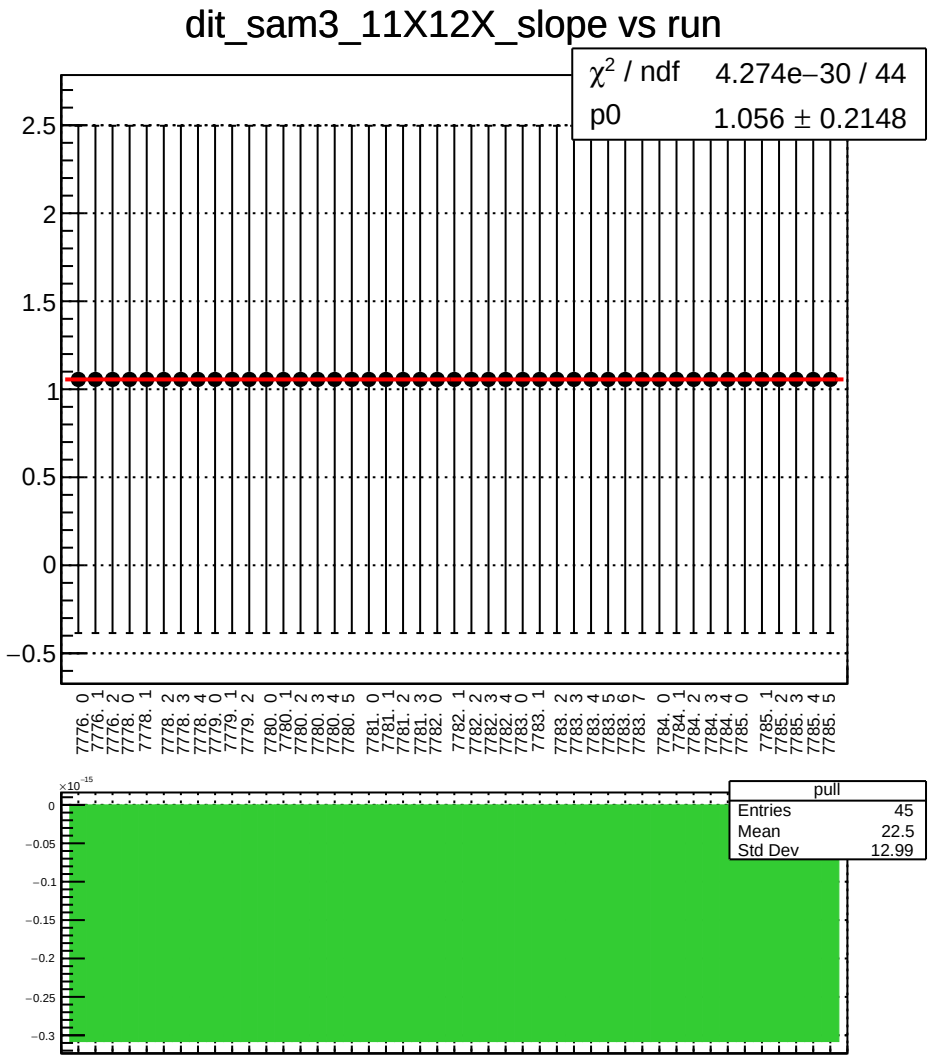

dit_sam2_4aY_slope vs run
χ² / ndf 7.141e−30 / 44
p0 −2.537 ± 0.4985
1
0
−1
−2
−3
−4
−5
−6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 45
Mean 22.5
Std Dev 12.99

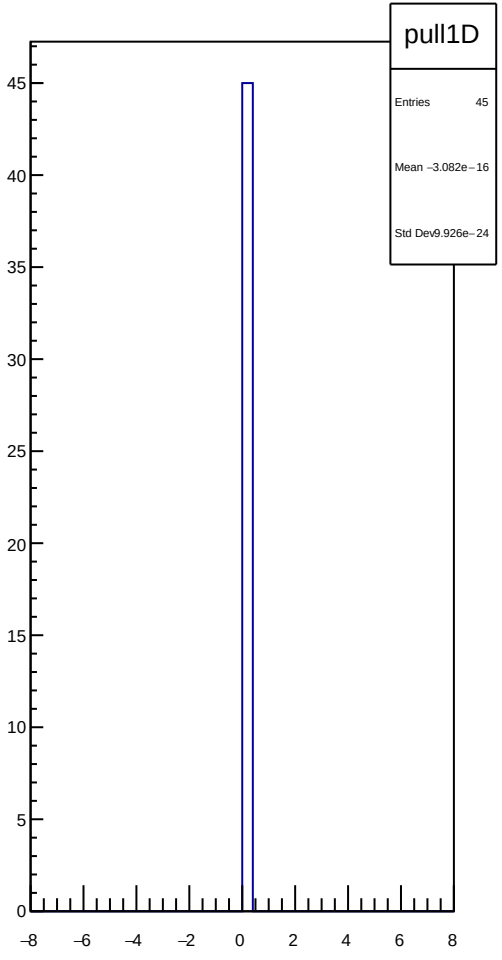

pull1D
Entries 45
Mean −3.984e−16
Std Dev1.046e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

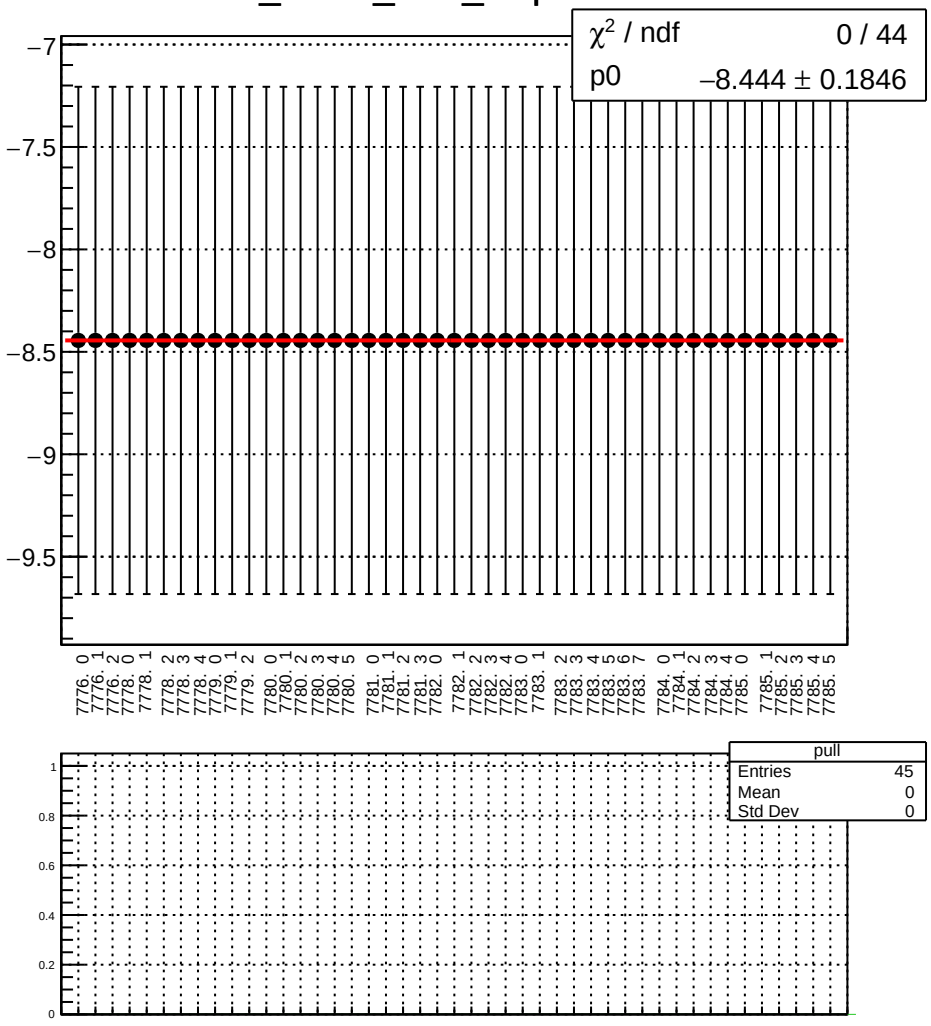

dit_sam2_4eY_slope vs run
χ² / ndf 0 / 44
p0 −204.7 ± 0.4726
−201
−202
−203
−204
−205
−206
−207
−208
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

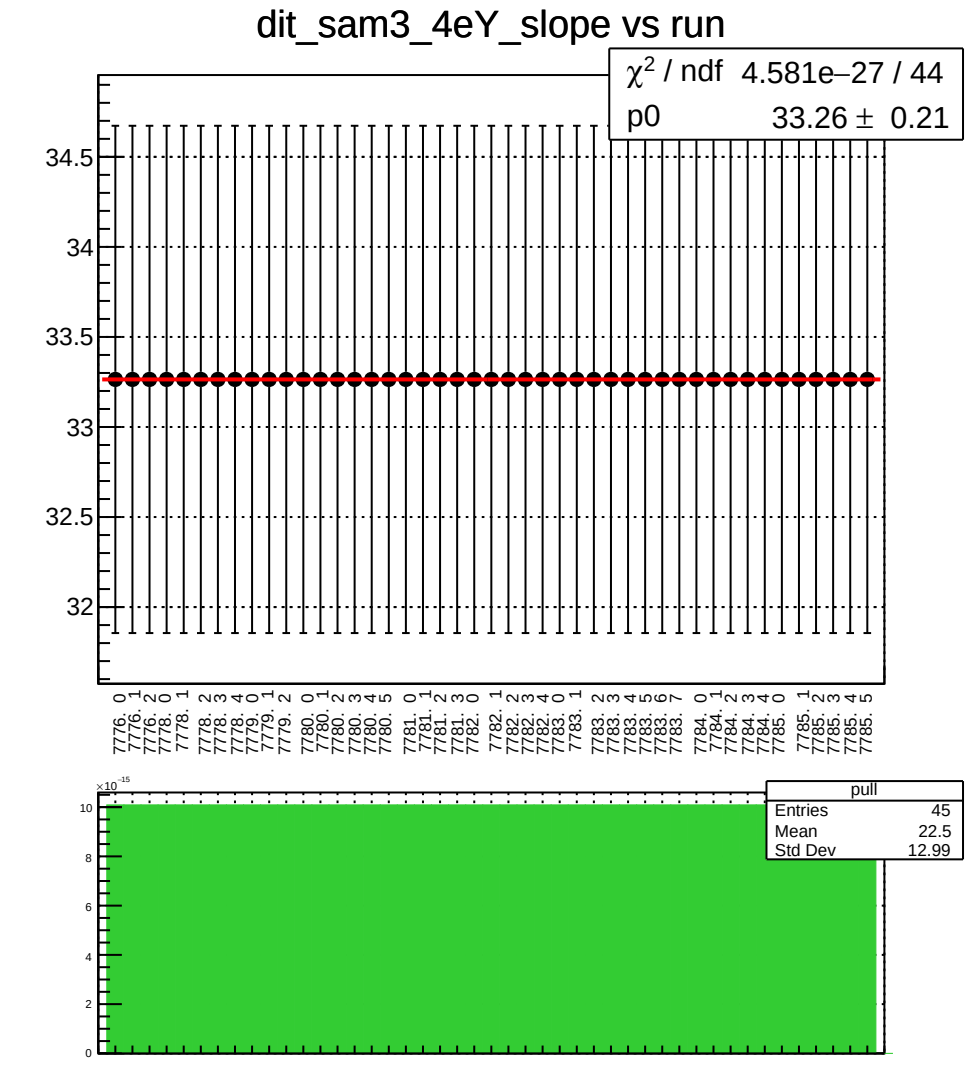

dit_sam3_4aX_slope vs run
χ² / ndf 1.047e−28 / 44
p0 −11.14 ± 0.6945
−6
−8
−10
−12
−14
−16
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.525e−15
Std Dev 6.748e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

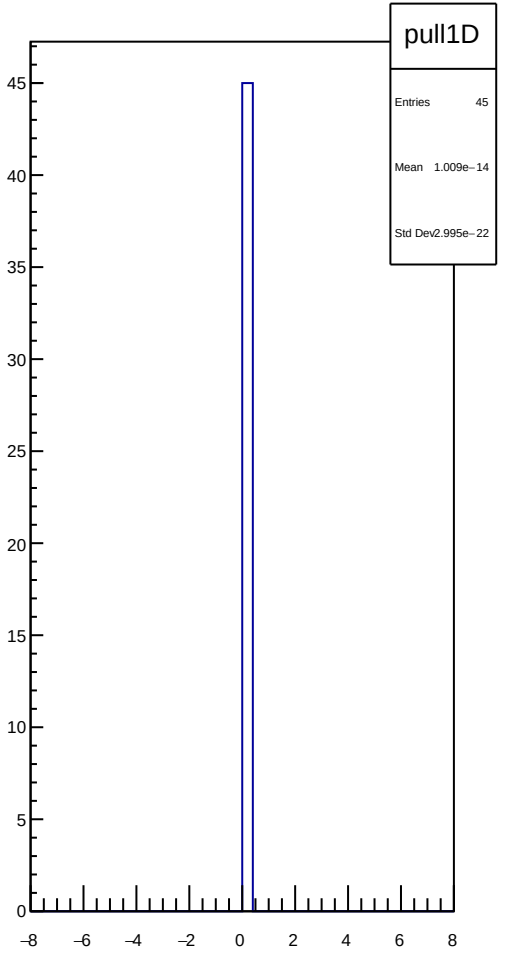

dit_sam3_4eX_slope vs run
χ² / ndf 2.327e−27 / 44
p0 −122.4 ± 0.5892
−118
−119
−120
−121
−122
−123
−124
−125
−126
−127
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −7.191e−15
Std Dev 2.593e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

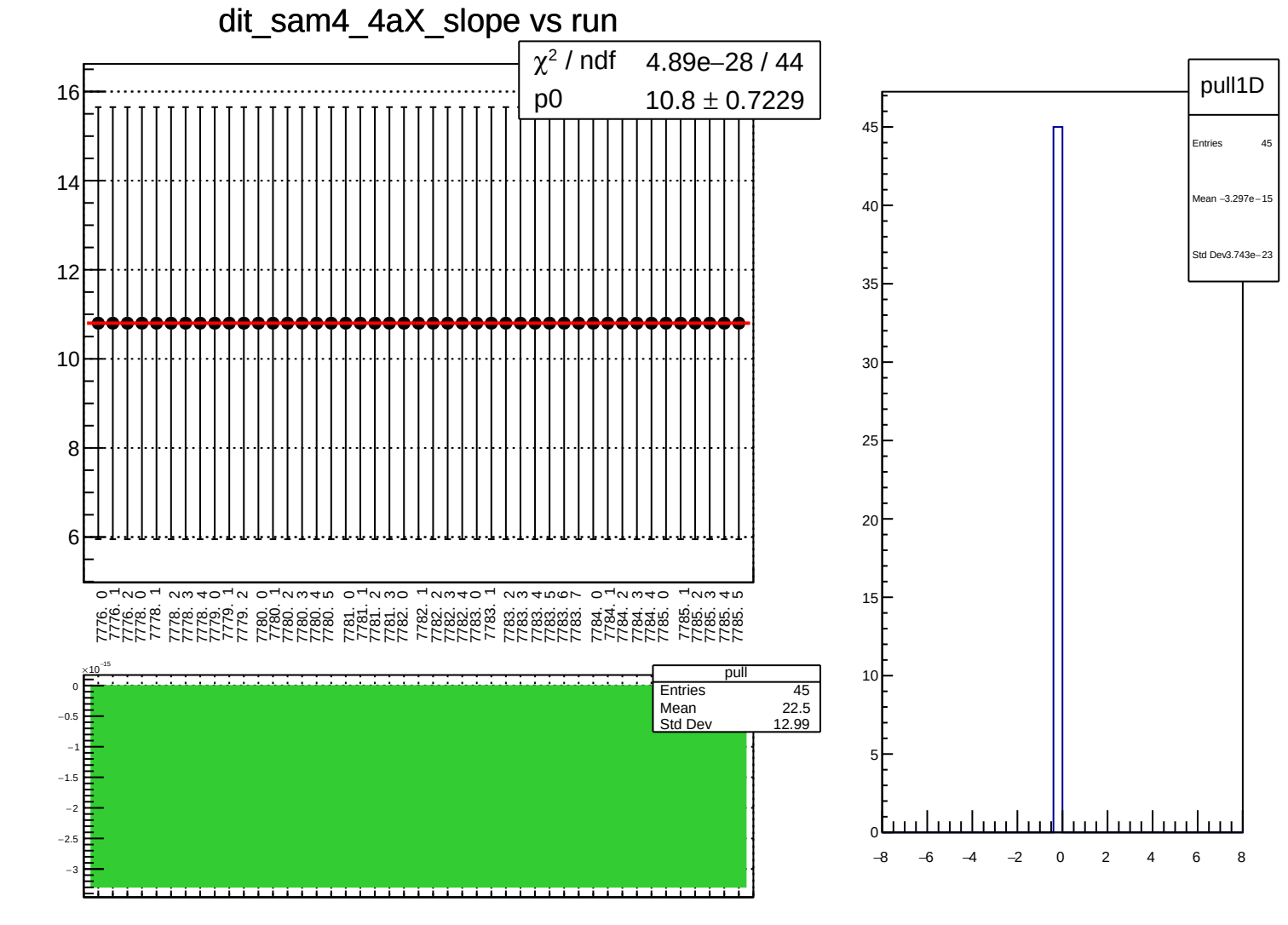

dit_sam3_11X12X_slope vs run
χ² / ndf 4.274e−30 / 44
p0 1.056 ± 0.2148
2.5
2
1.5
1
0.5
0
−0.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 45
Mean 22.5
Std Dev 12.99

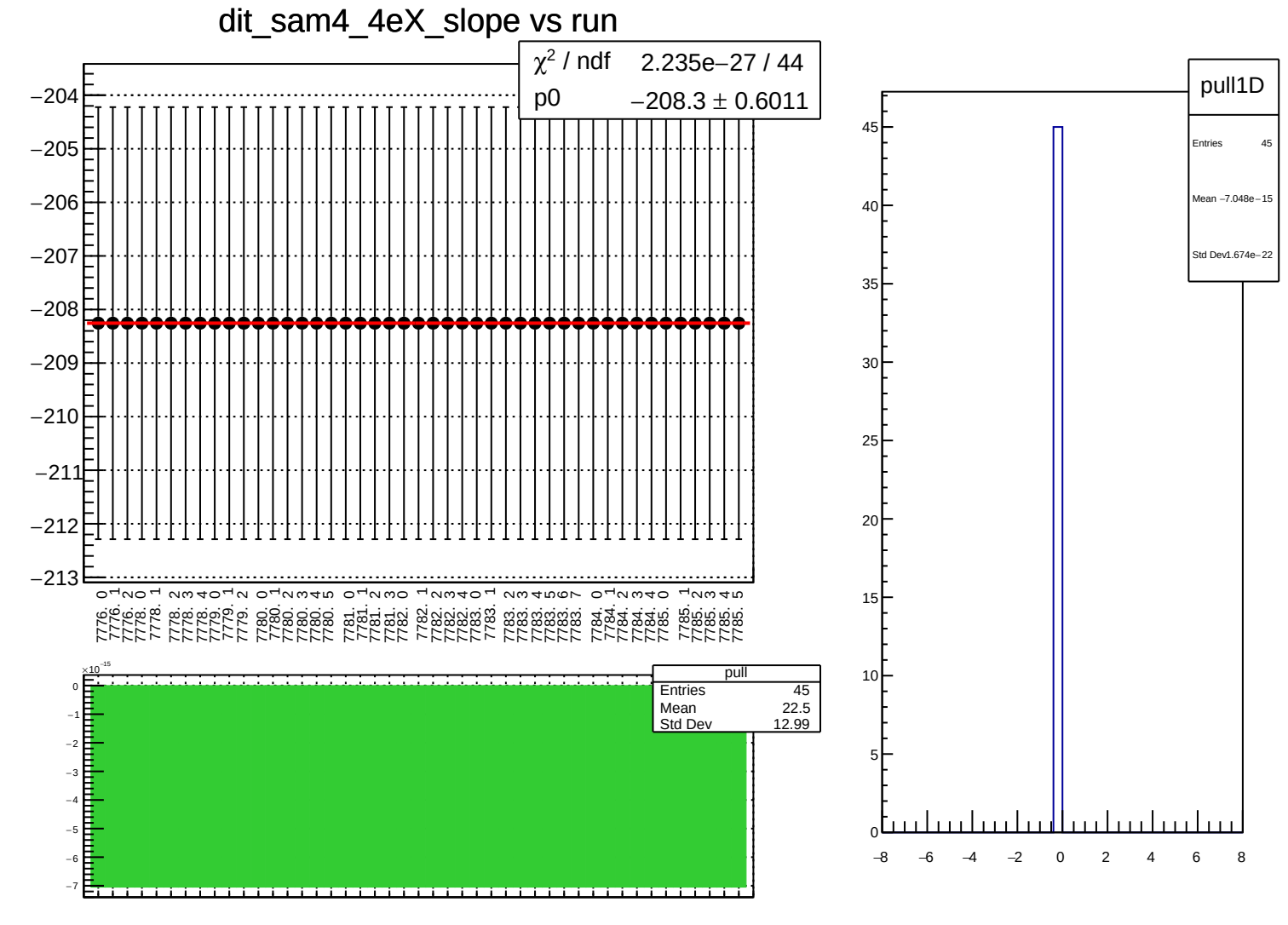

pull1D
Entries 45
Mean −3.082e−16
Std Dev 9.926e−24
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

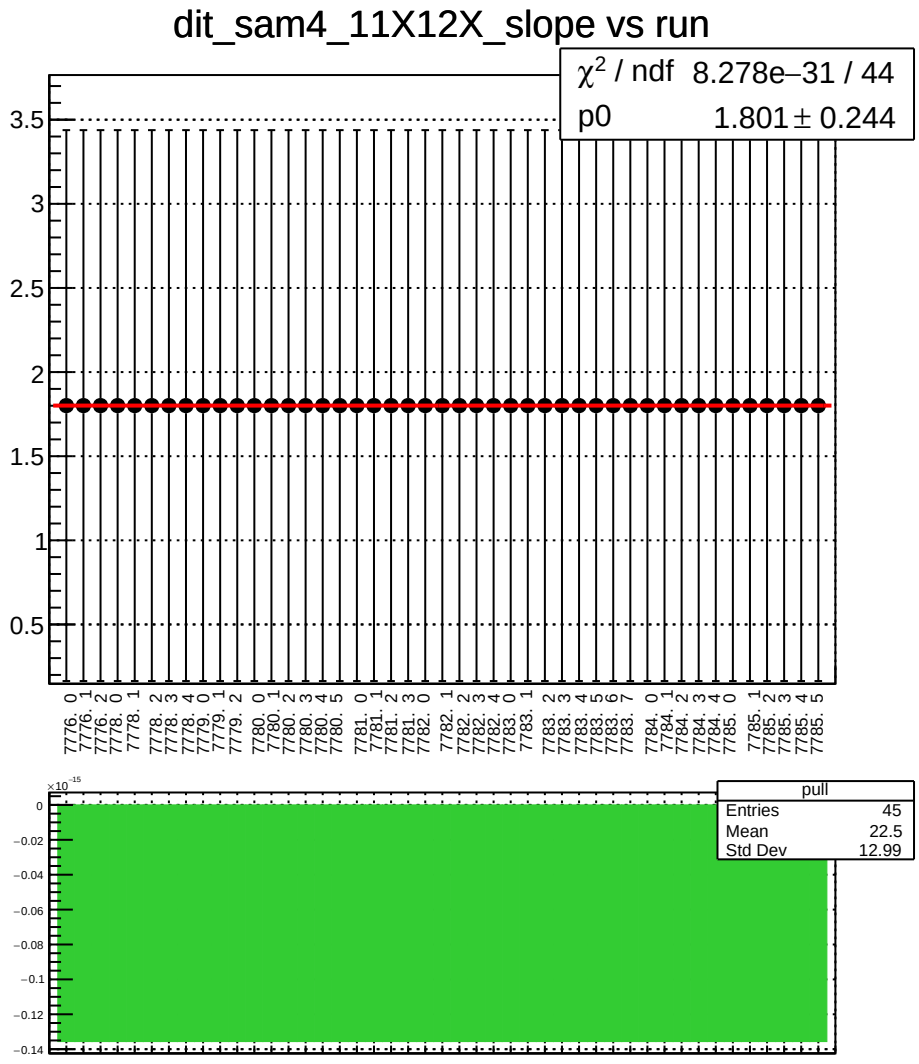

dit_sam3_4aY_slope vs run
χ² / ndf 0 / 44
p0 −8.444 ± 0.1846
−7
−7.5
−8
−8.5
−9
−9.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 45
Mean 0
Std Dev 0
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

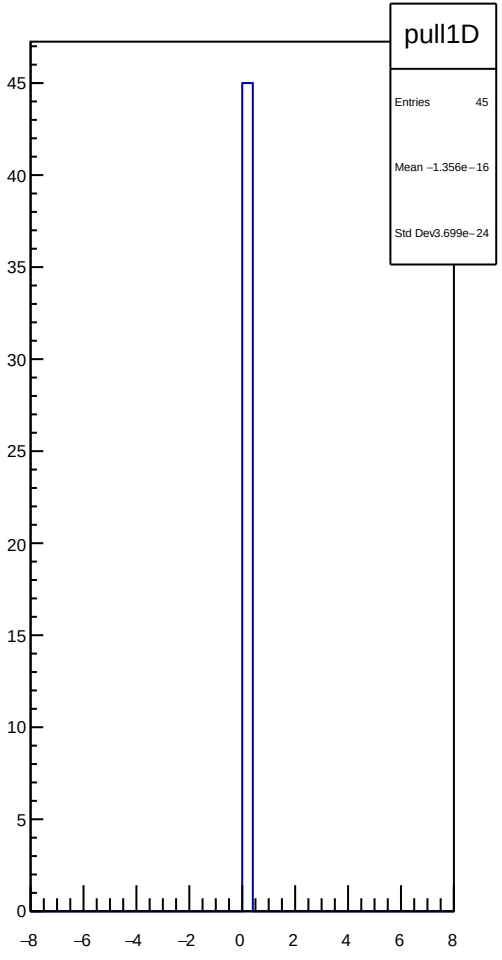

dit_sam3_4eY_slope vs run
χ² / ndf 4.581e−27 / 44
p0 33.26 ± 0.21
34.5
34
33.5
33
32.5
32
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

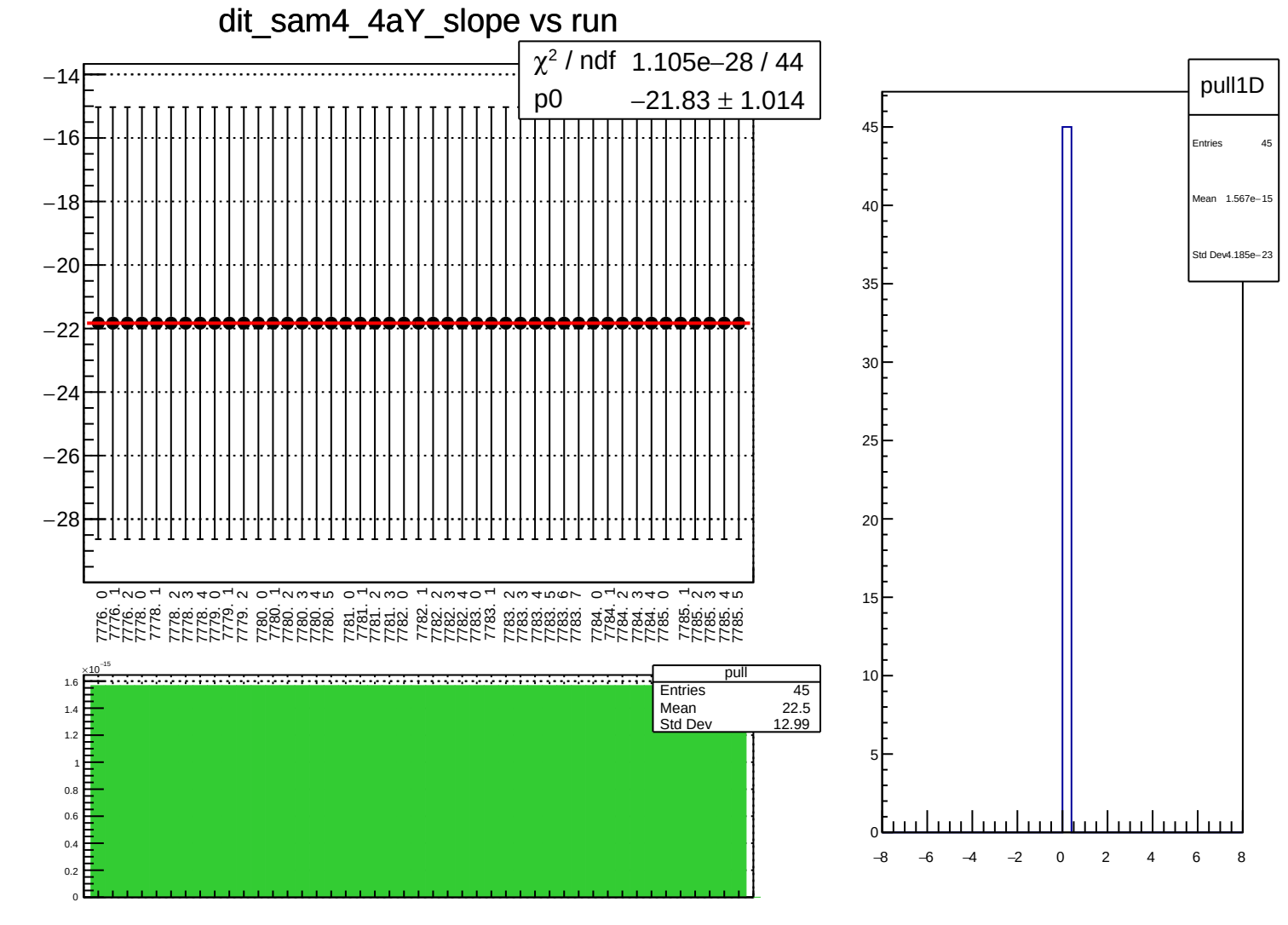

pull1D
Entries 45
Mean 1.009e−14
Std Dev 2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

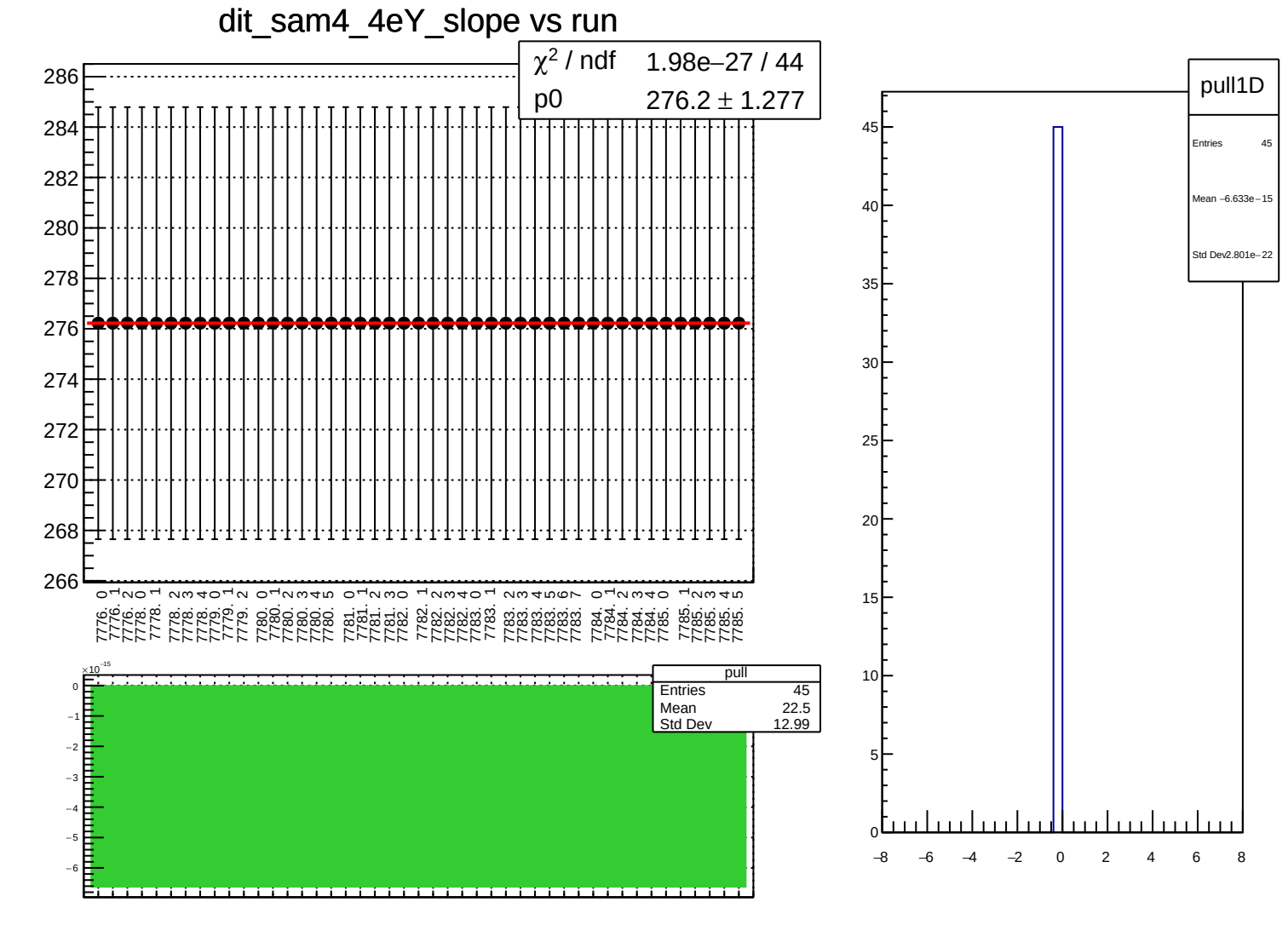

dit_sam4_4aX_slope vs run
χ² / ndf 4.89e−28 / 44
p0 10.8 ± 0.7229
16
14
12
10
8
6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −3.297e−15
Std Dev3.743e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

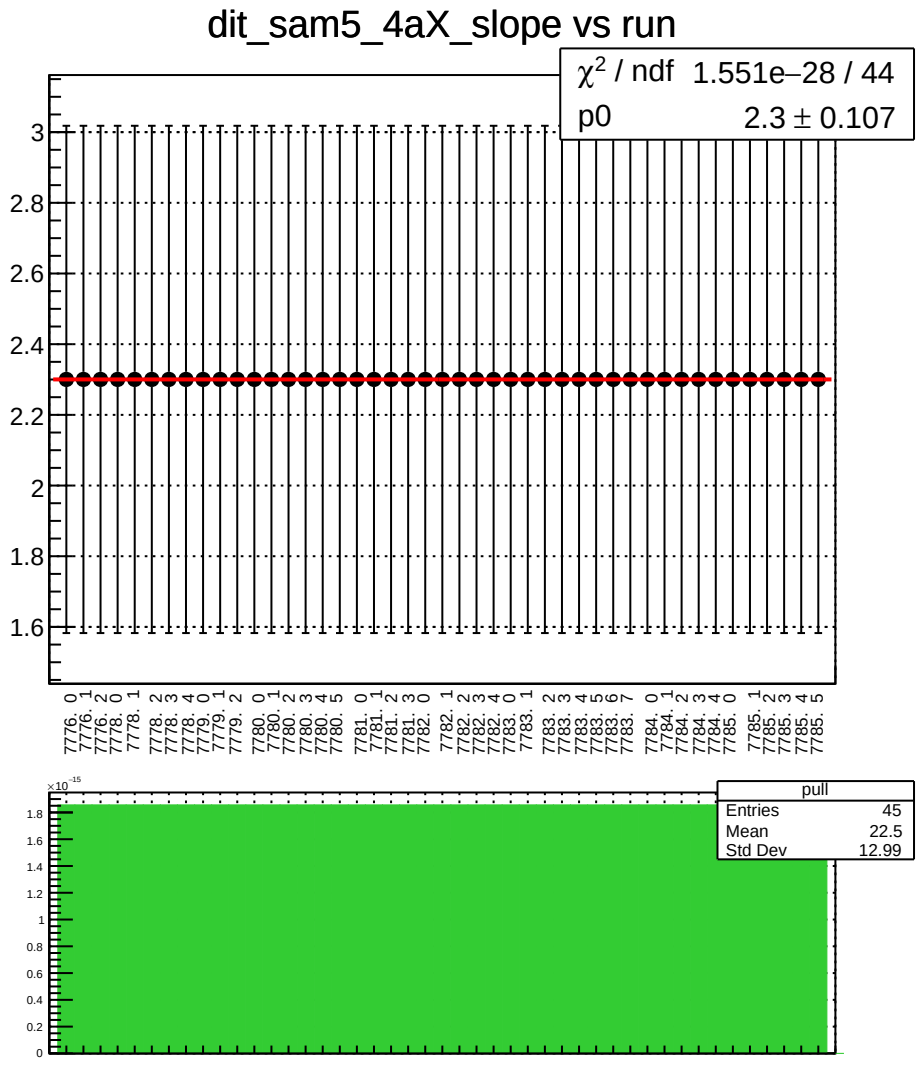

dit_sam4_4eX_slope vs run
χ^2 / ndf 2.235e−27 / 44
p0 −208.3 ± 0.6011
−204
−205
−206
−207
−208
−209
−210
−211
−212
−213
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −7.048e−15
Std Dev1.674e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

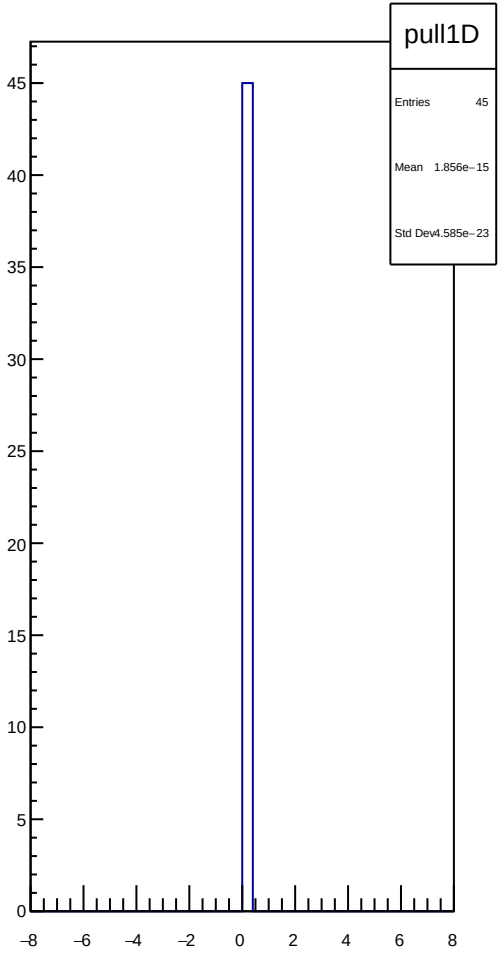

dit_sam4_11X12X_slope vs run
χ² / ndf 8.278e−31 / 44
p0 1.801 ± 0.244
pull
Entries 45
Mean 22.5
Std Dev 12.99

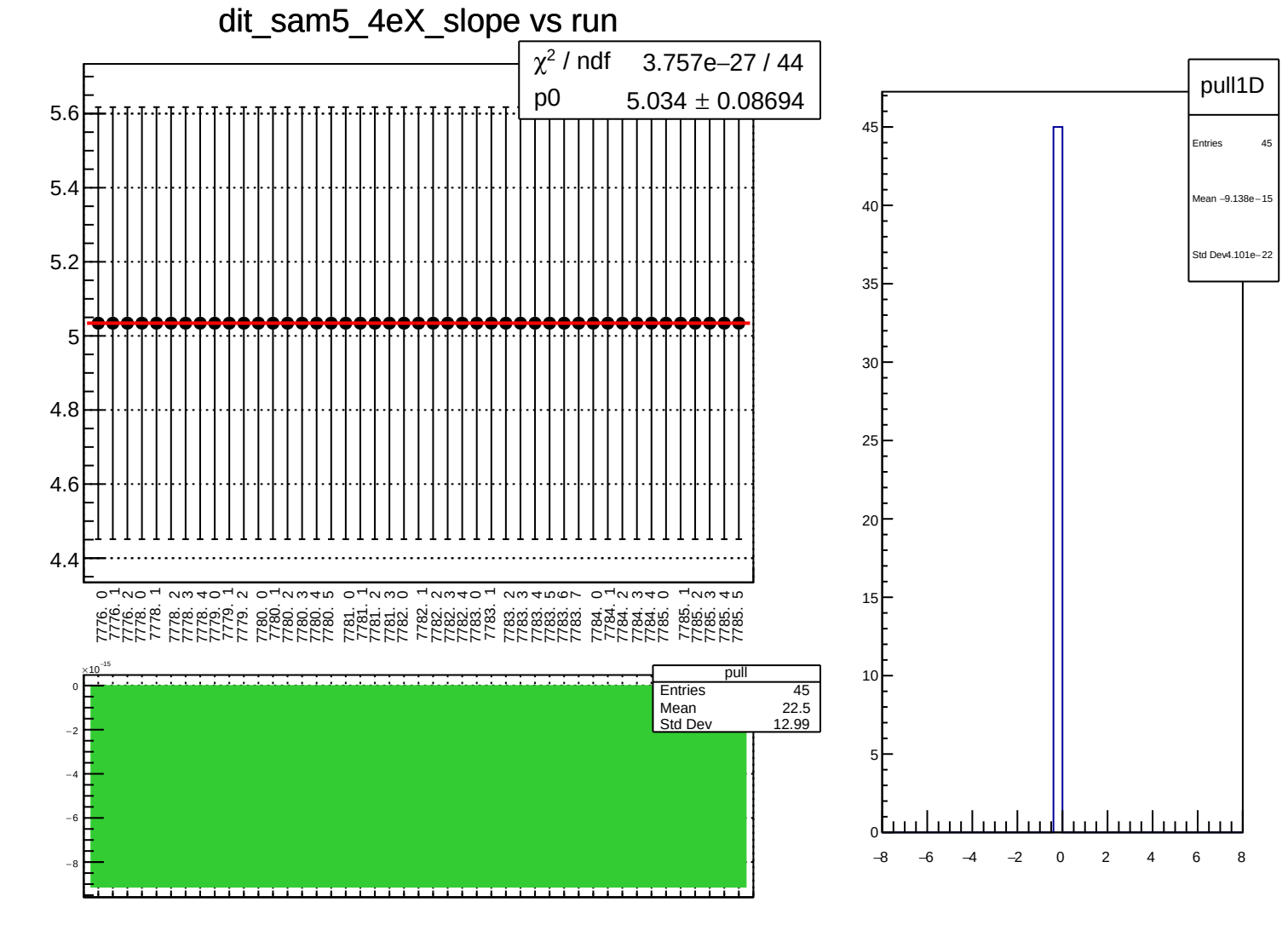

pull1D
Entries 45
Mean −1.356e−16
Std Dev 3.699e−24

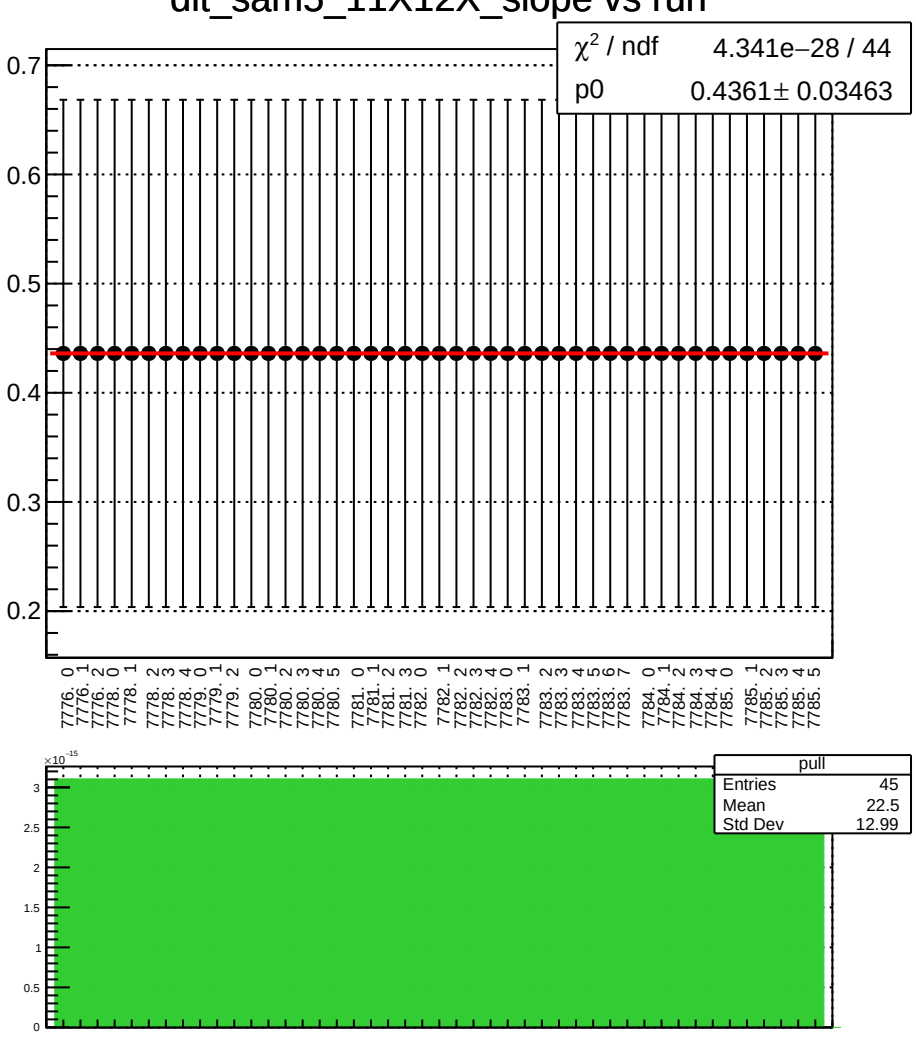

dit_sam4_4aY_slope vs run
χ² / ndf 1.105e−28 / 44
p0 −21.83 ± 1.014
−14
−16
−18
−20
−22
−24
−26
−28
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.567e−15
Std Dev4.185e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

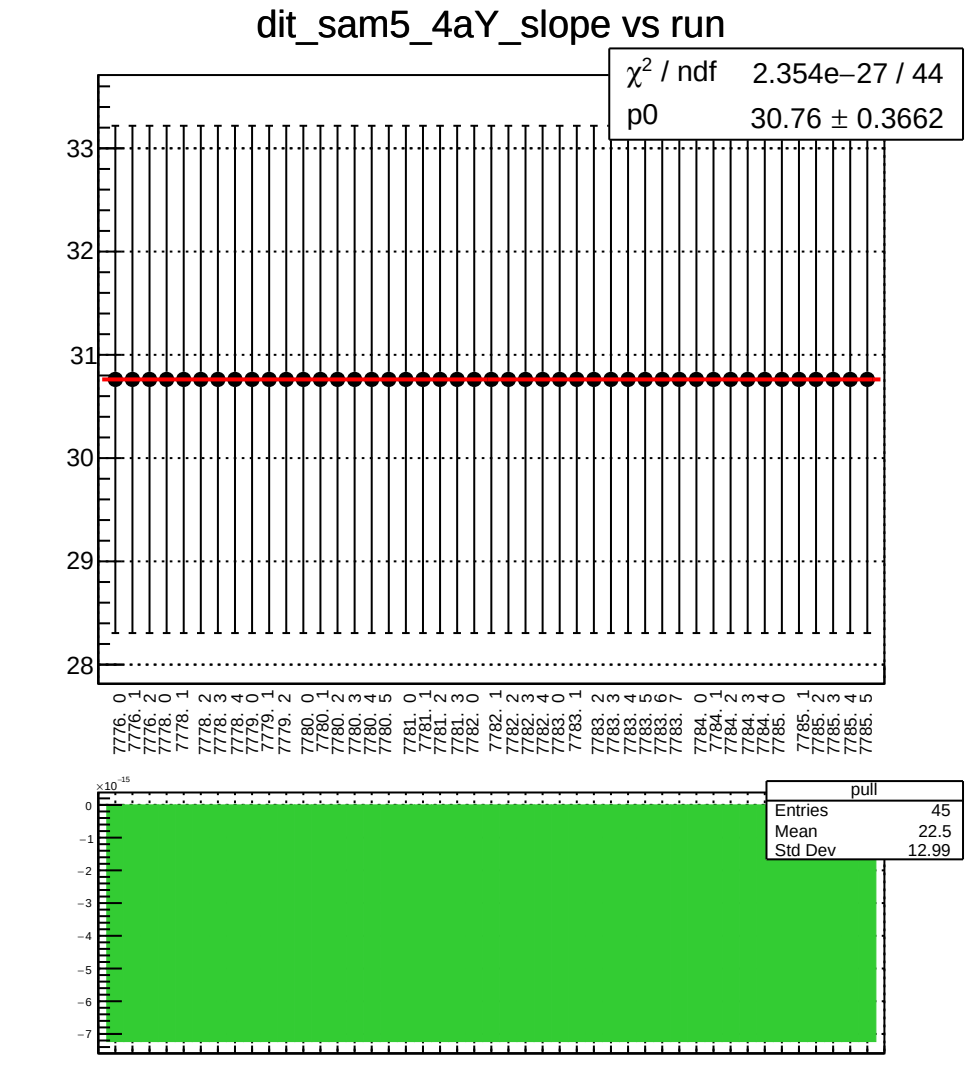

dit_sam4_4eY_slope vs run
χ² / ndf 1.98e−27 / 44
p0 276.2 ± 1.277
286
284
282
280
278
276
274
272
270
268
266
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −6.633e−15
Std Dev2.801e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

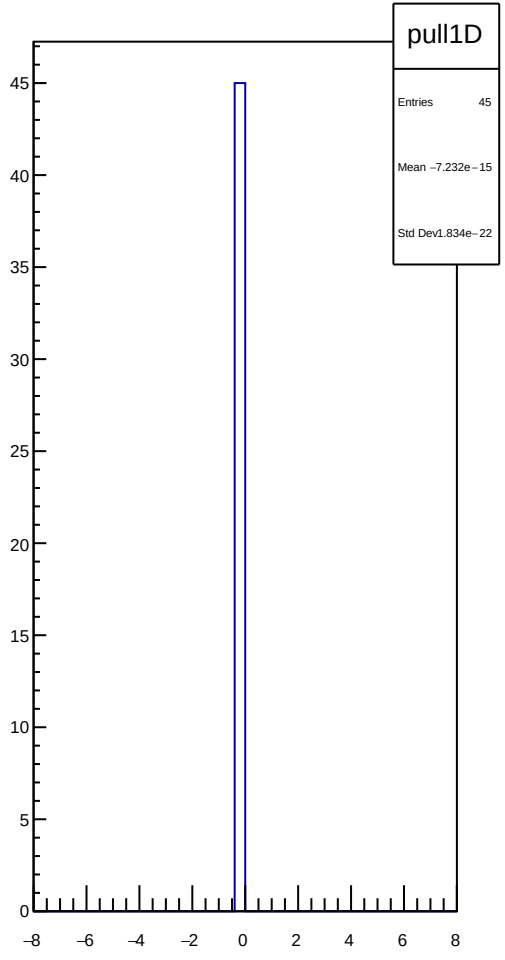

dit_sam5_4aX_slope vs run
χ² / ndf 1.551e−28 / 44
p0 2.3 ± 0.107
pull
Entries 45
Mean 22.5
Std Dev 12.99

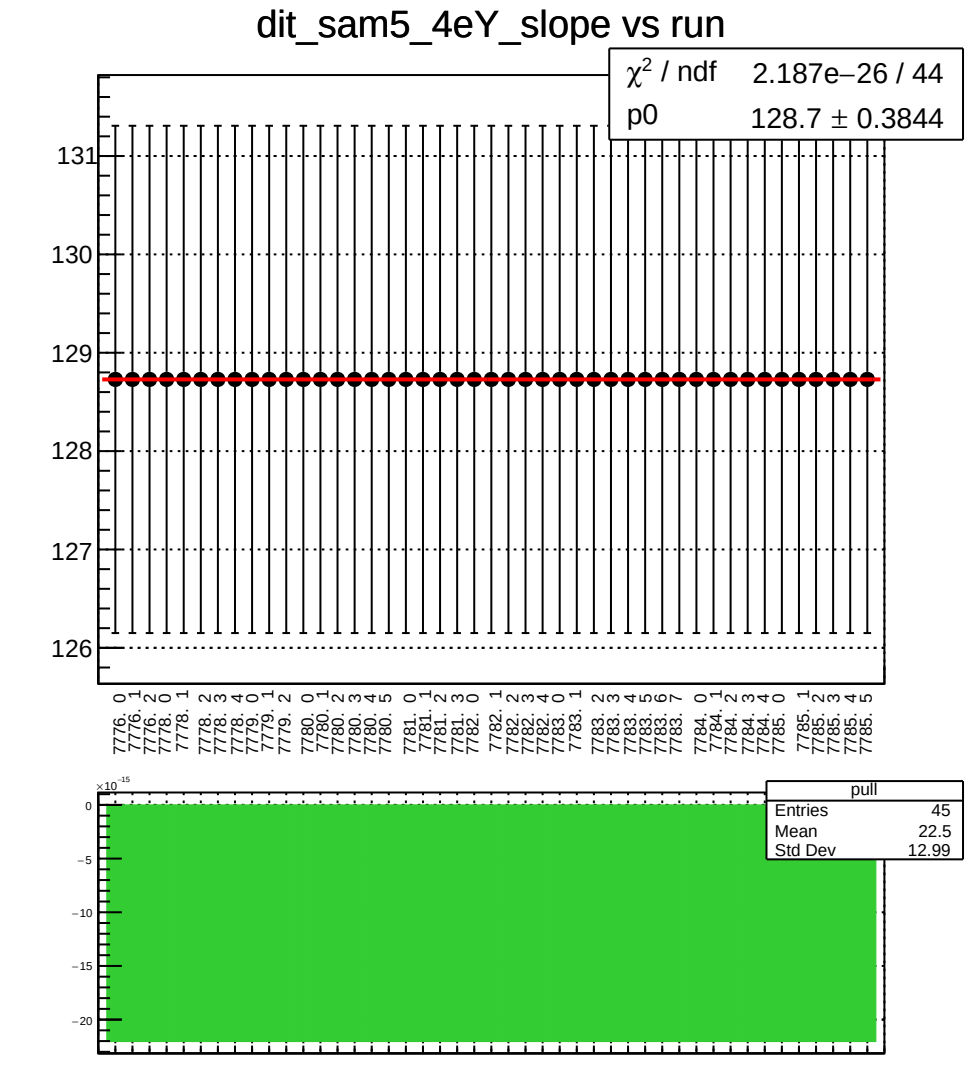

pull1D
Entries 45
Mean 1.856e−15
Std Dev4.585e−23

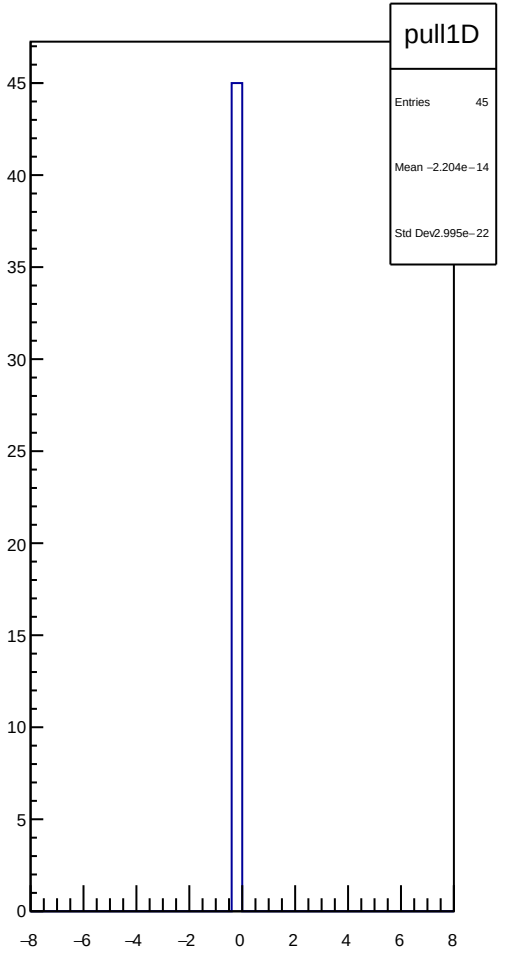

dit_sam5_4eX_slope vs run
χ² / ndf 3.757e−27 / 44
p0 5.034 ± 0.08694
5.6
5.4
5.2
5
4.8
4.6
4.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−2
−4
−6
−8
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −9.138e−15
Std Dev4.101e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

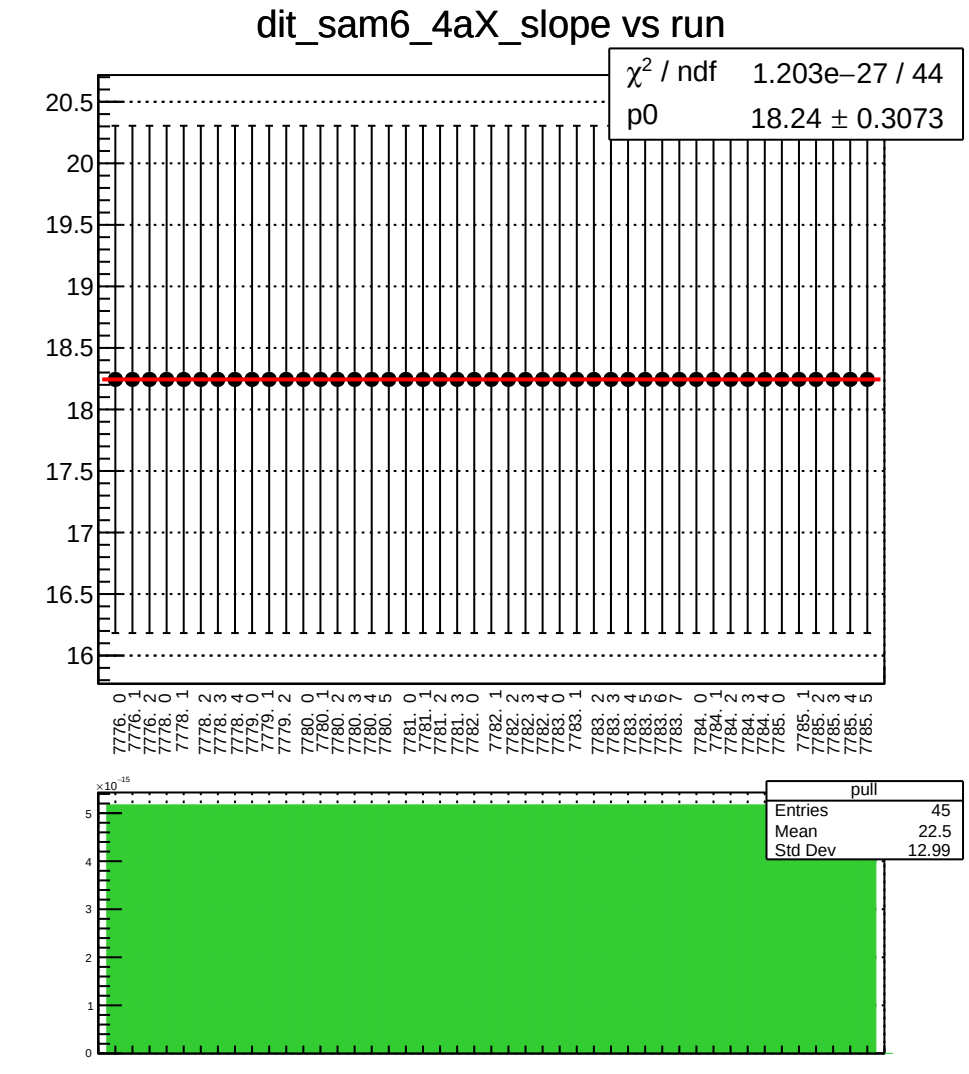

dit_sam5_11X12X_slope vs run
χ² / ndf 4.341e−28 / 44
p0 0.4361± 0.03463
0.7
0.6
0.5
0.4
0.3
0.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
3
2.5
2
1.5
1
0.5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 3.106e−15
Std Dev 1.242e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4aY_slope vs run
χ² / ndf 2.354e−27 / 44
p0 30.76 ± 0.3662
33
32
31
30
29
28
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −7.232e−15
Std Dev1.834e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4eY_slope vs run
χ² / ndf 2.187e−26 / 44
p0 128.7 ± 0.3844
131
130
129
128
127
126
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −2.204e−14
Std Dev2.995e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4aX_slope vs run
χ² / ndf 1.203e−27 / 44
p0 18.24 ± 0.3073
20.5
20
19.5
19
18.5
18
17.5
17
16.5
16
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
5
4
3
2
1
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 5.171e−15
Std Dev 2.246e−22
45
40
35
30
25
20
15
10
5
0
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−4
−2
0
2
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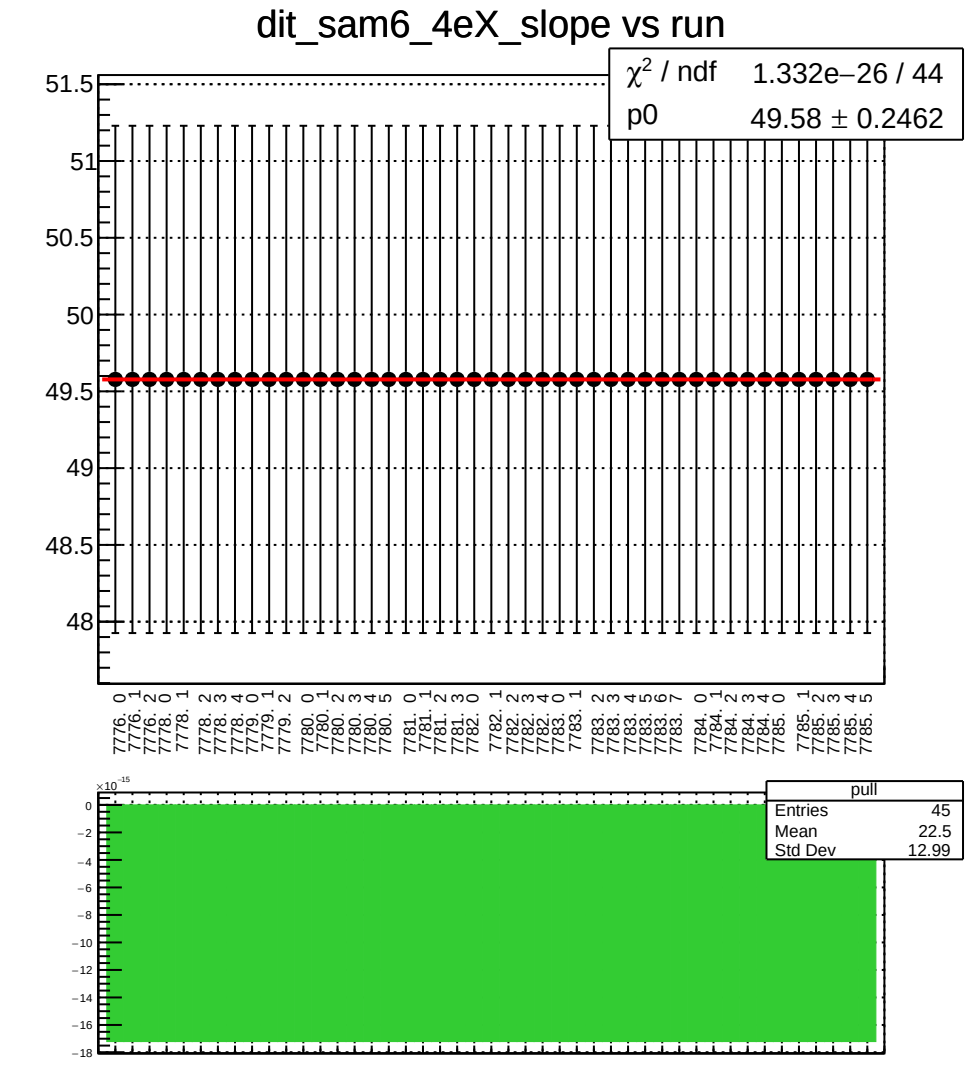
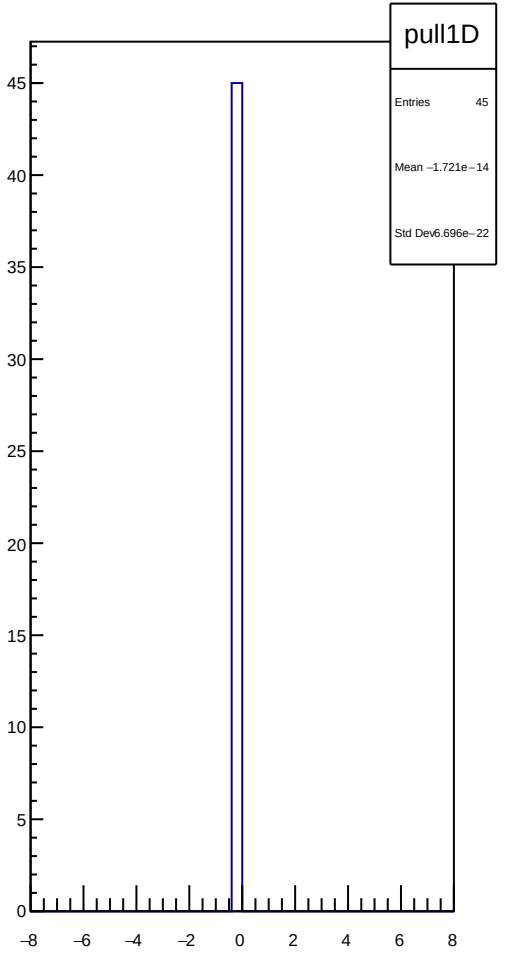
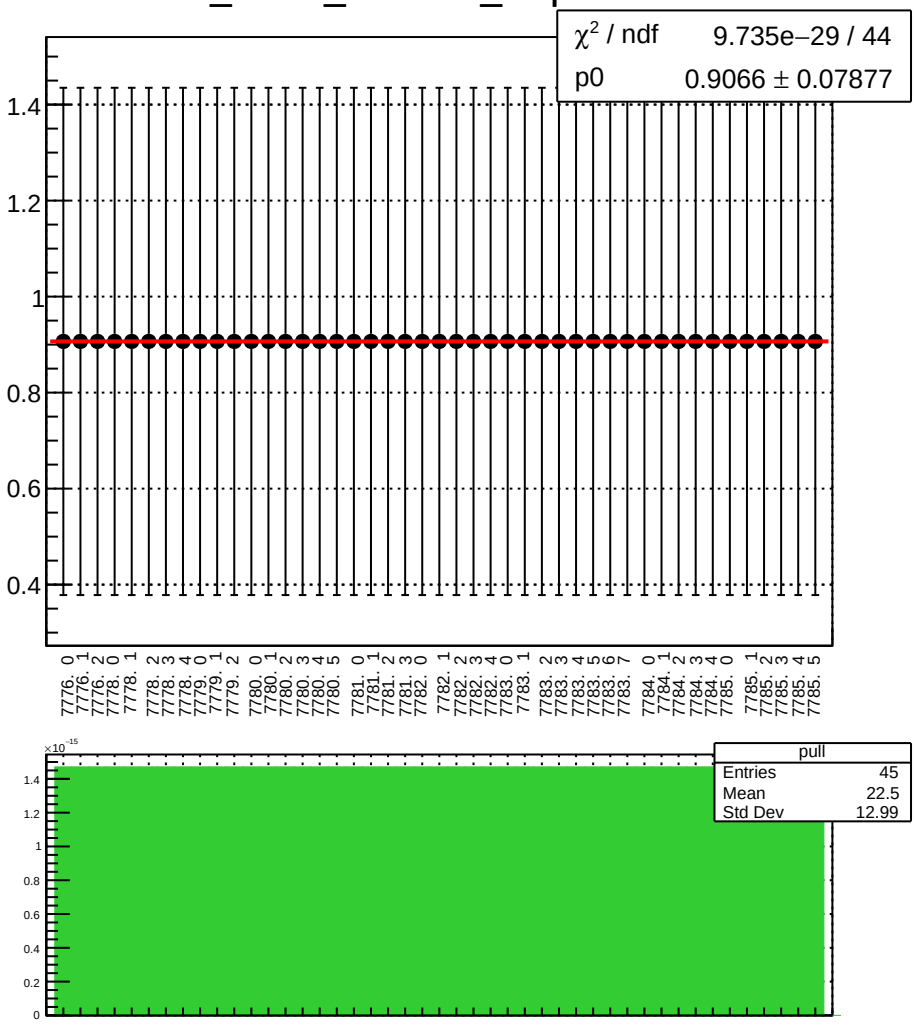
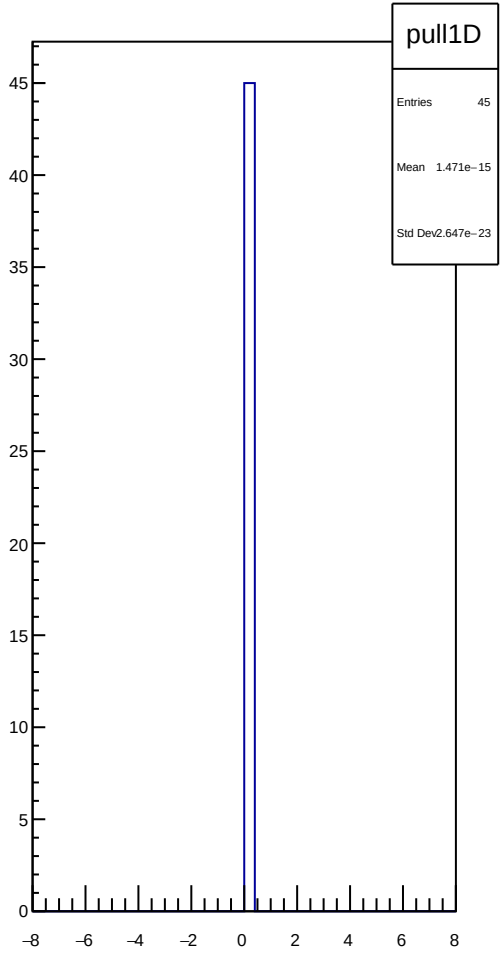
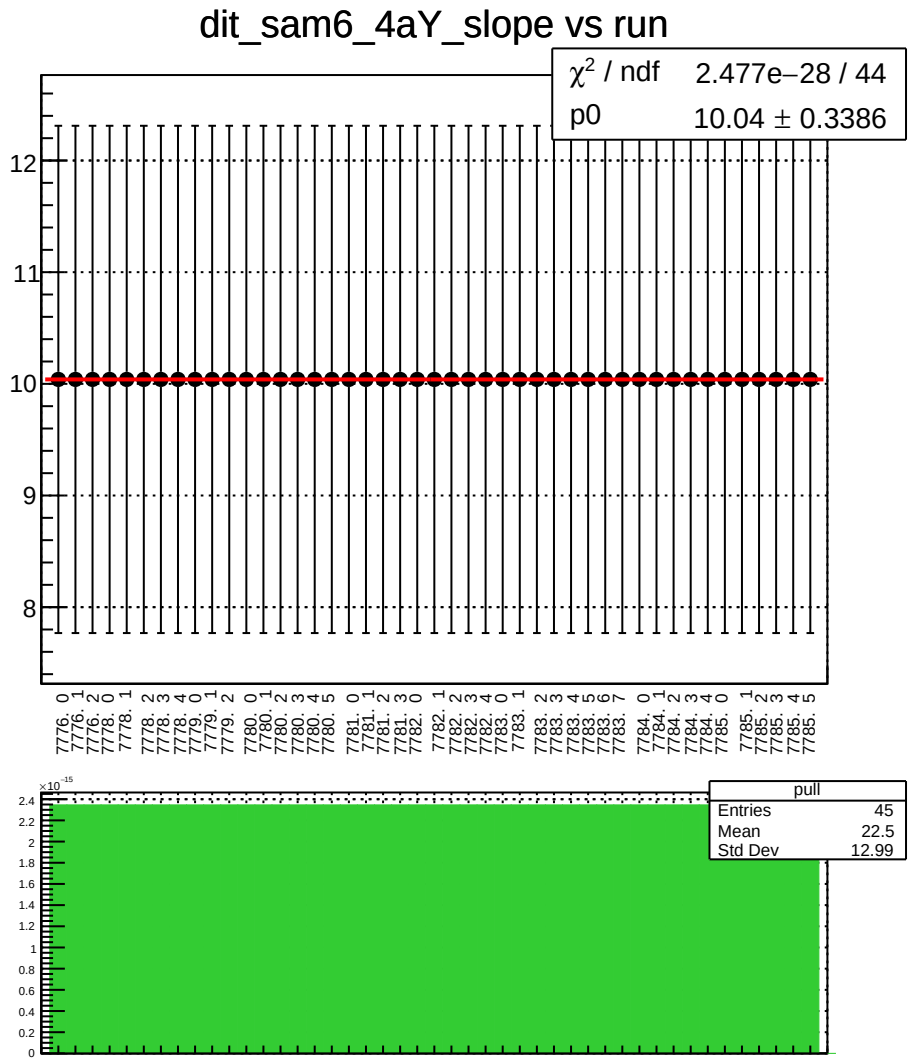
6
8

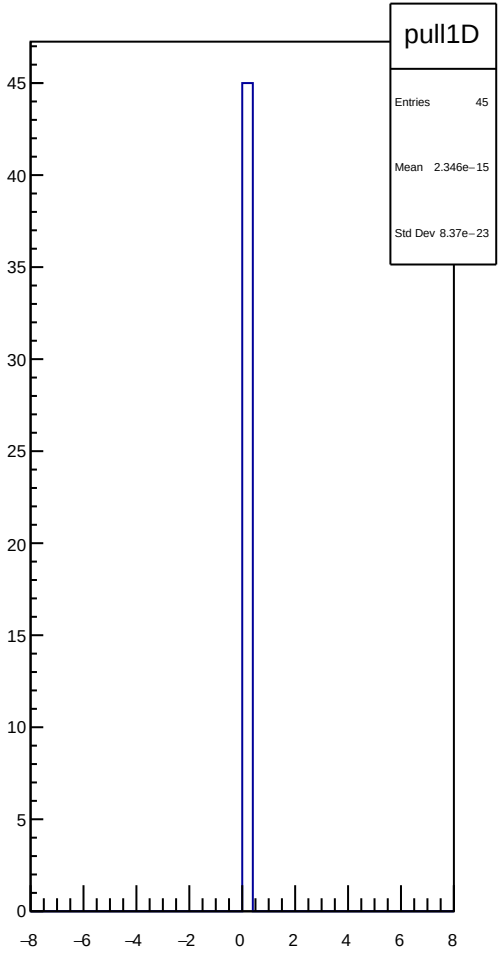

dit_sam6_4eX_slope vs run
χ² / ndf 1.332e−26 / 44
p0 49.58 ± 0.2462
51.5
51
50.5
50
49.5
49
48.5
48
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull
Entries 45
Mean 22.5
Std Dev 12.99

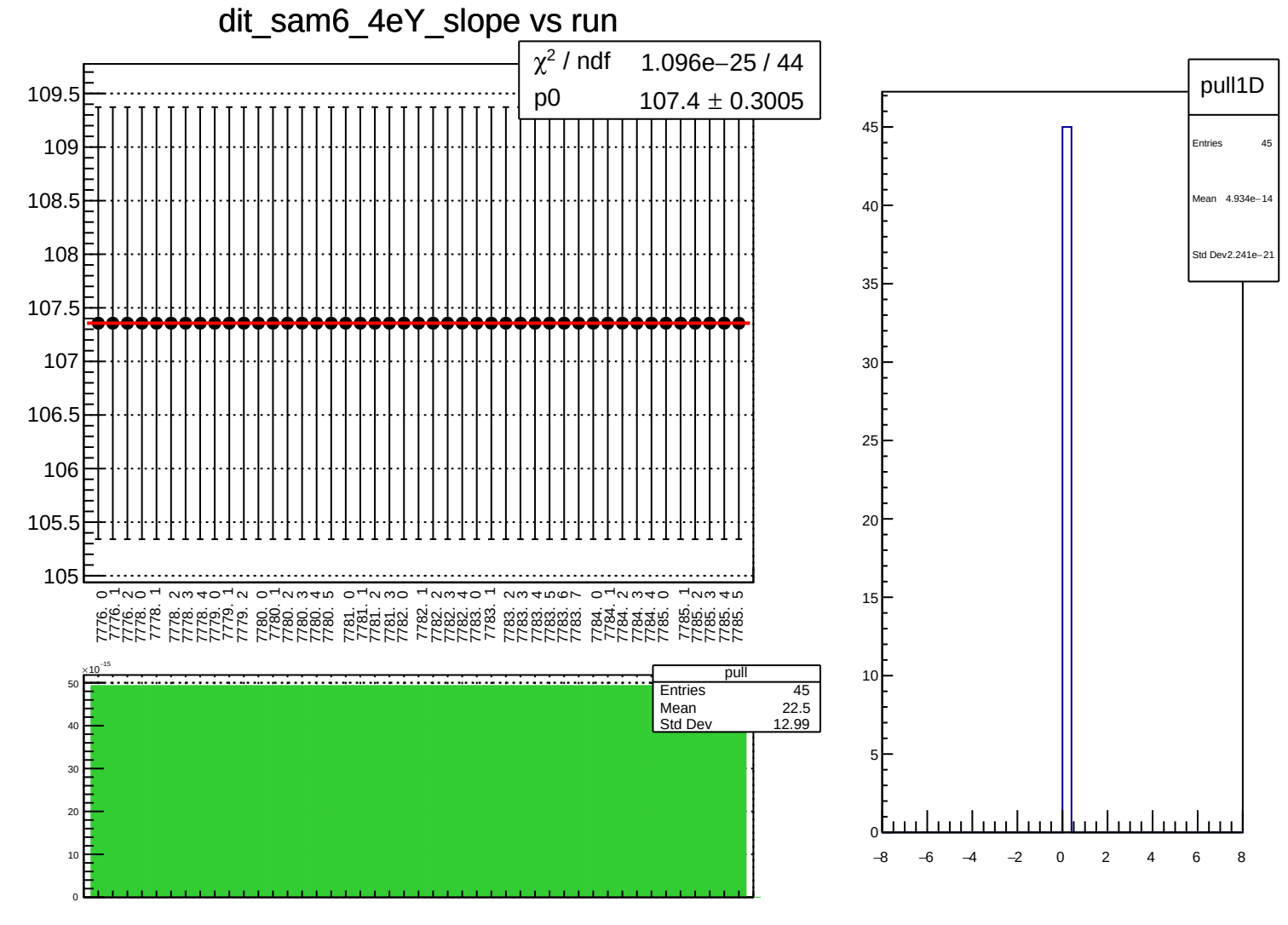

pull1D
Entries 45
Mean −1.721e−14
Std Dev 6.696e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

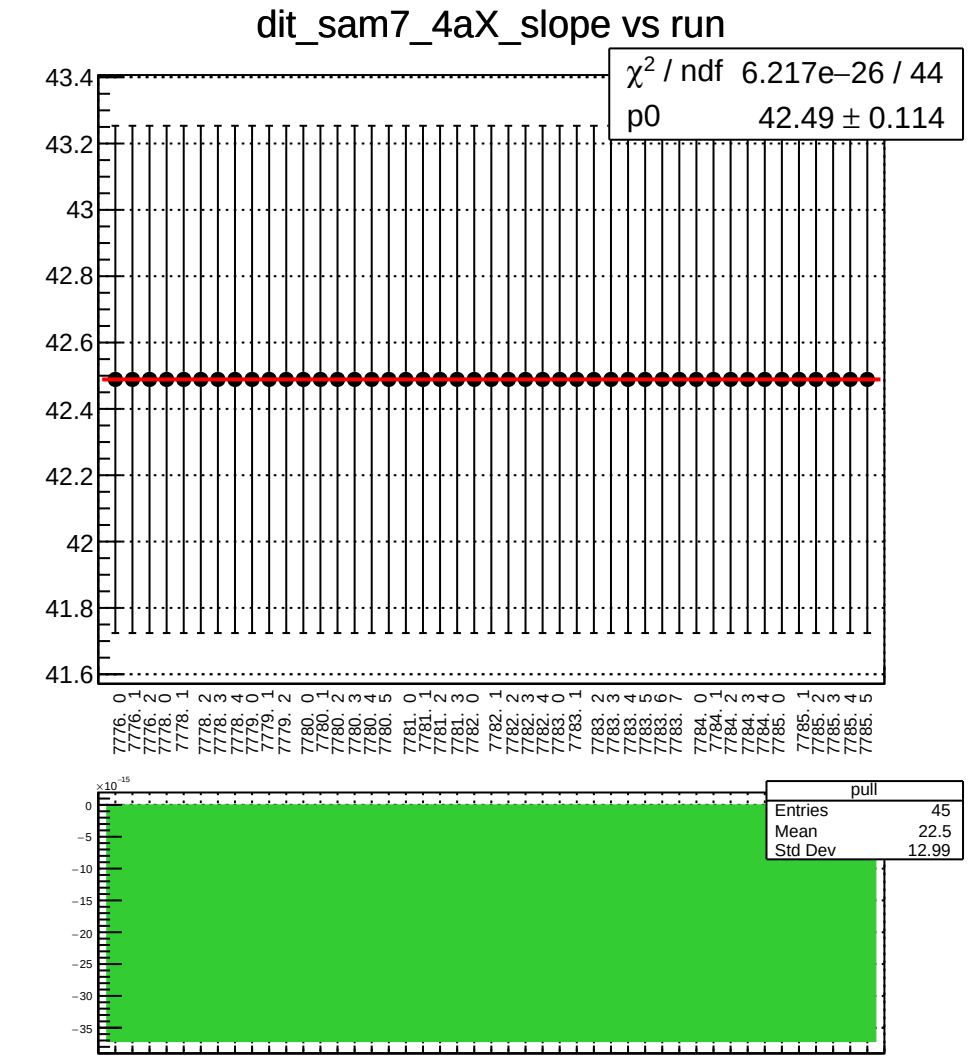

dit_sam6_11X12X_slope vs run
χ² / ndf 9.735e−29 / 44
p0 0.9066 ± 0.07877
1.4
1.2
1
0.8
0.6
0.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99

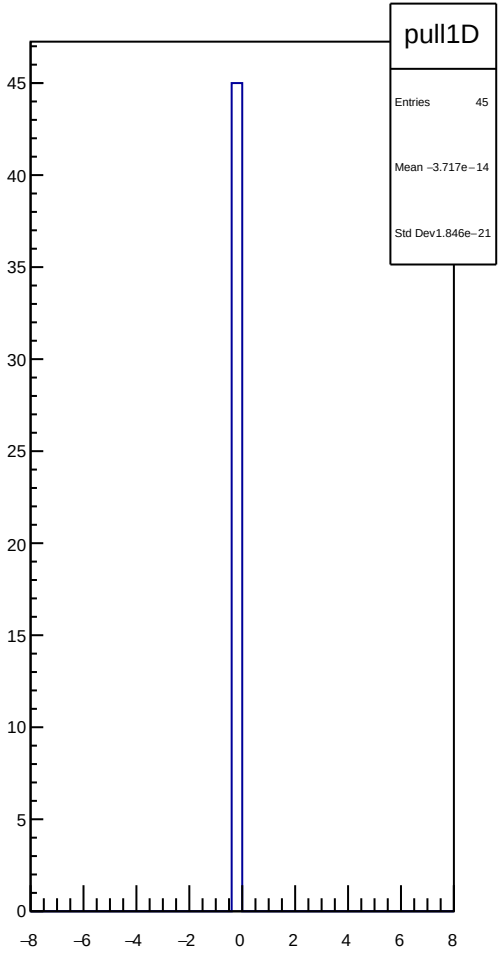

pull1D
Entries 45
Mean 1.471e−15
Std Dev2.647e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

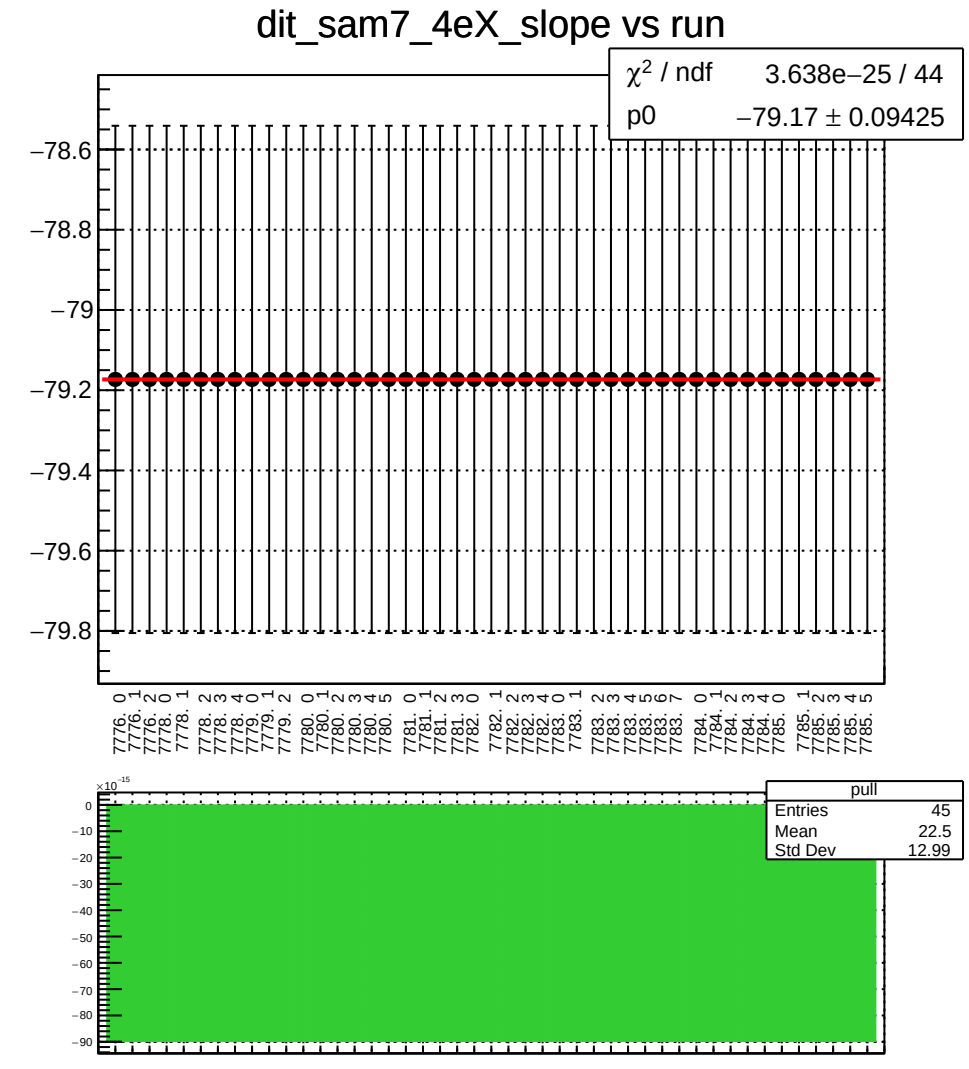

dit_sam6_4aY_slope vs run
χ² / ndf 2.477e−28 / 44
p0 10.04 ± 0.3386
12
11
10
9
8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean 2.346e−15
Std Dev 8.37e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4eY_slope vs run
χ² / ndf 1.096e−25 / 44
p0 107.4 ± 0.3005
109.5
109
108.5
108
107.5
107
106.5
106
105.5
105
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 4.934e−14
Std Dev2.241e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aX_slope vs run
χ² / ndf 6.217e−26 / 44
p0 42.49 ± 0.114
43.4
43.2
43
42.8
42.6
42.4
42.2
42
41.8
41.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −3.717e−14
Std Dev1.846e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4eX_slope vs run
χ² / ndf 3.638e−25 / 44
p0 −79.17 ± 0.09425
−78.6
−78.8
−79
−79.2
−79.4
−79.6
−79.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−10
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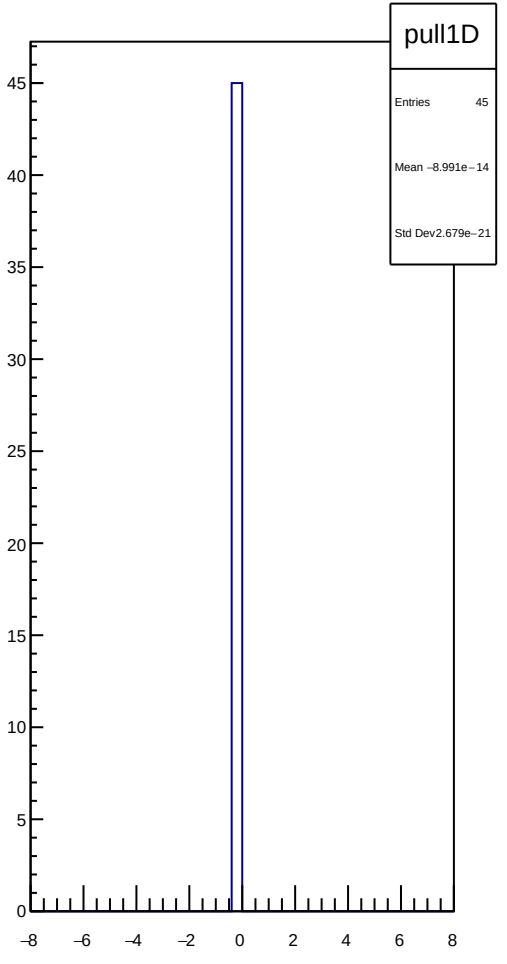
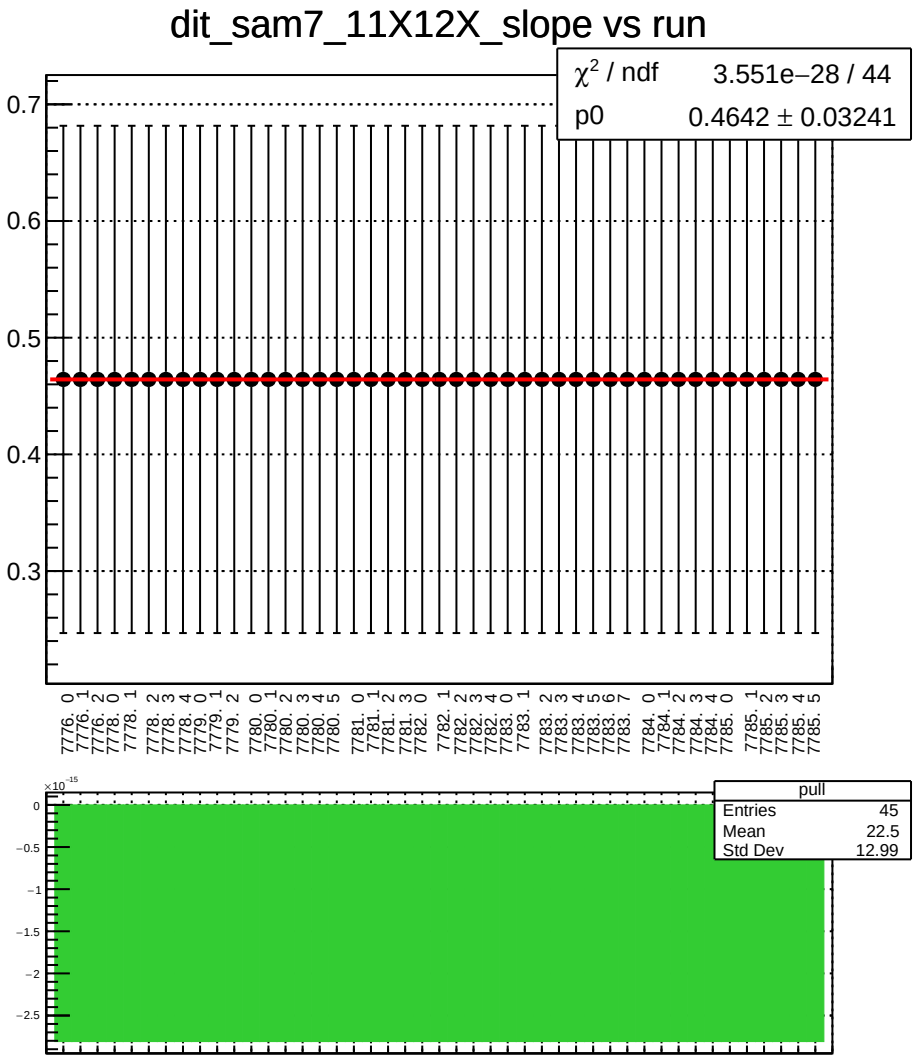
−30
−40
−50
−60
−70
−80
−90
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −8.991e−14
Std Dev2.679e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_11X12X_slope vs run
χ² / ndf 3.551e−28 / 44
p0 0.4642 ± 0.03241
0.7
0.6
0.5
0.4
0.3
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
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7780. 2
7780. 3
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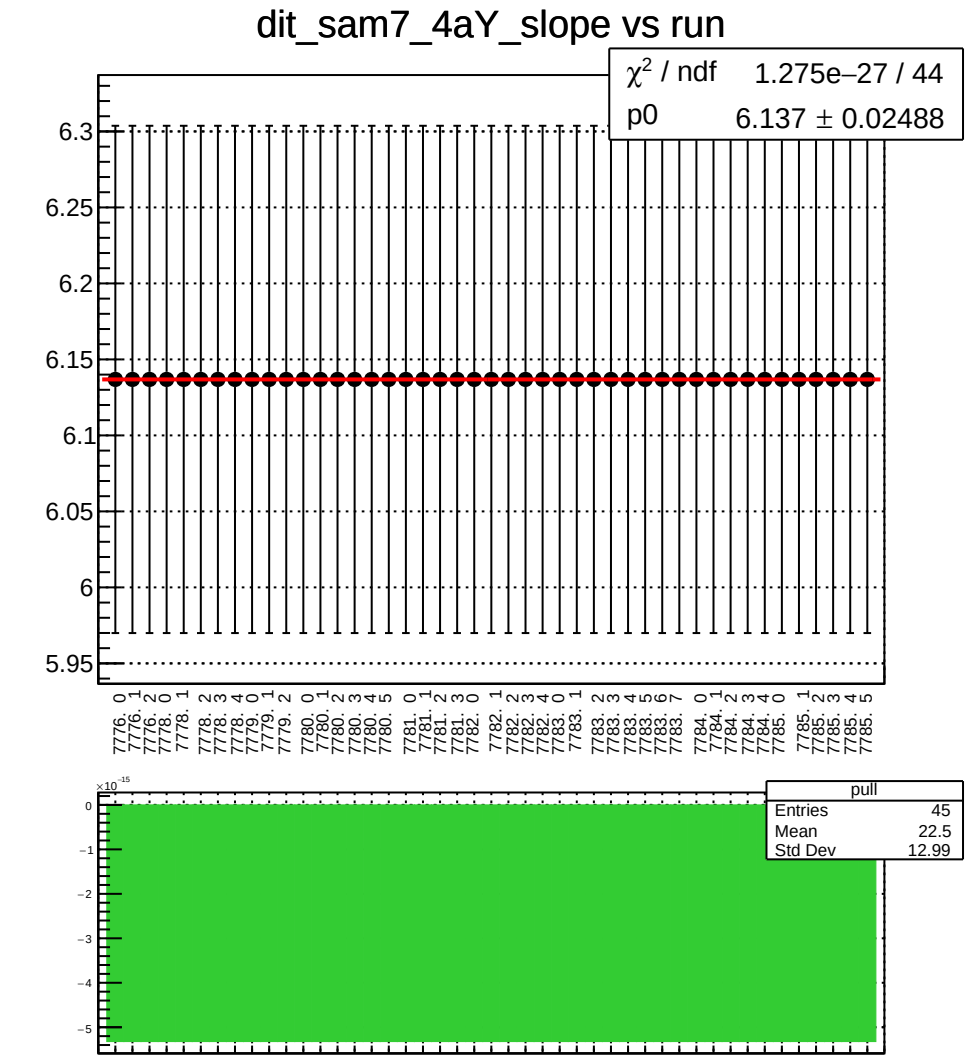
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −2.809e−15
Std Dev6.484e−23
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aY_slope vs run
χ² / ndf 1.275e−27 / 44
p0 6.137 ± 0.02488
6.3
6.25
6.2
6.15
6.1
6.05
6
5.95
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
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7780. 0
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7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
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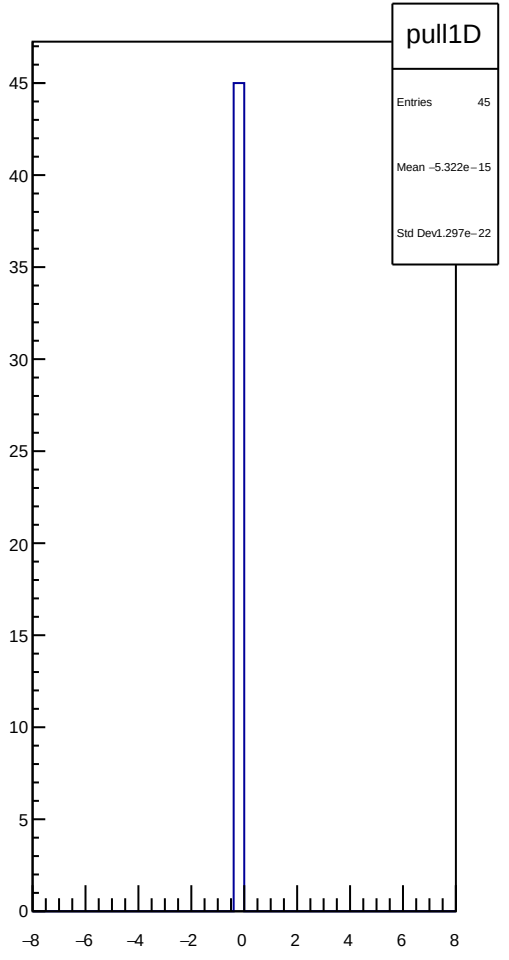
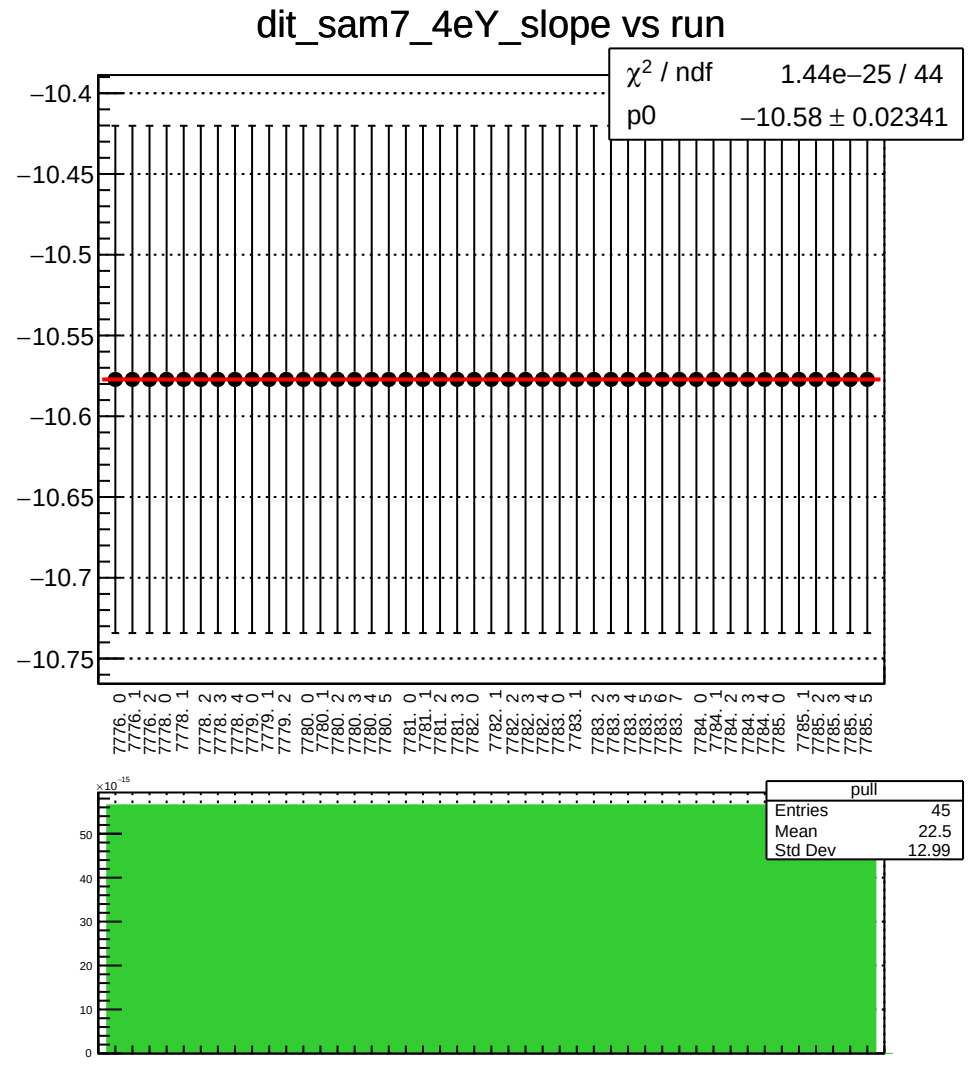
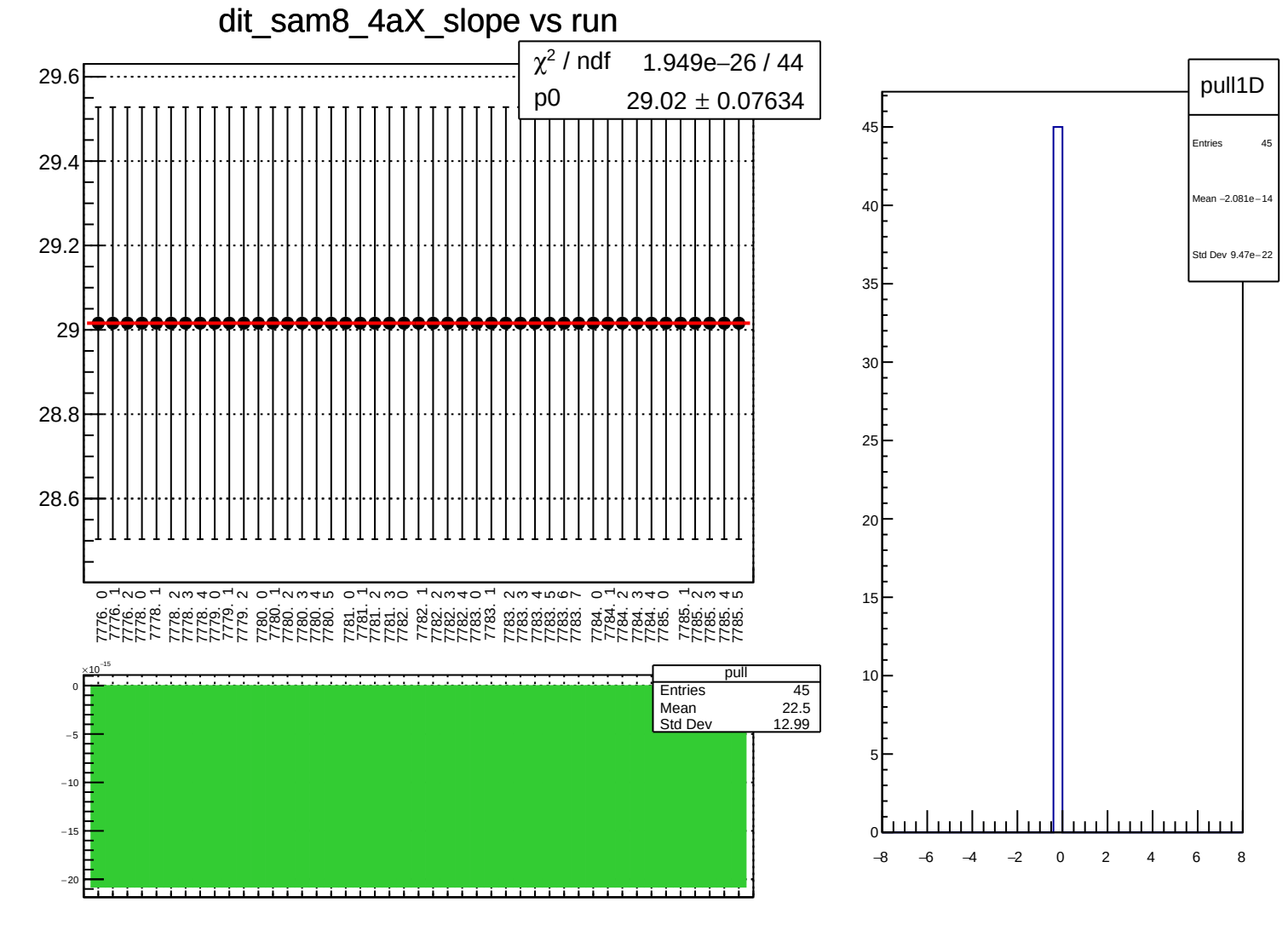
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−1
−2
−3
−4
−5
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
Mean −5.322e−15
Std Dev1.297e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4eY_slope vs run
χ² / ndf 1.44e−25 / 44
p0 −10.58 ± 0.02341
−10.4
−10.45
−10.5
−10.55
−10.6
−10.65
−10.7
−10.75
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
50
40
30
20
10
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 5.656e−14
Std Dev 2.16e−21
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aX_slope vs run
χ² / ndf 1.949e−26 / 44
p0 29.02 ± 0.07634
29.6
29.4
29.2
29
28.8
28.6
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
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7781. 0
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7781. 3
7782. 0
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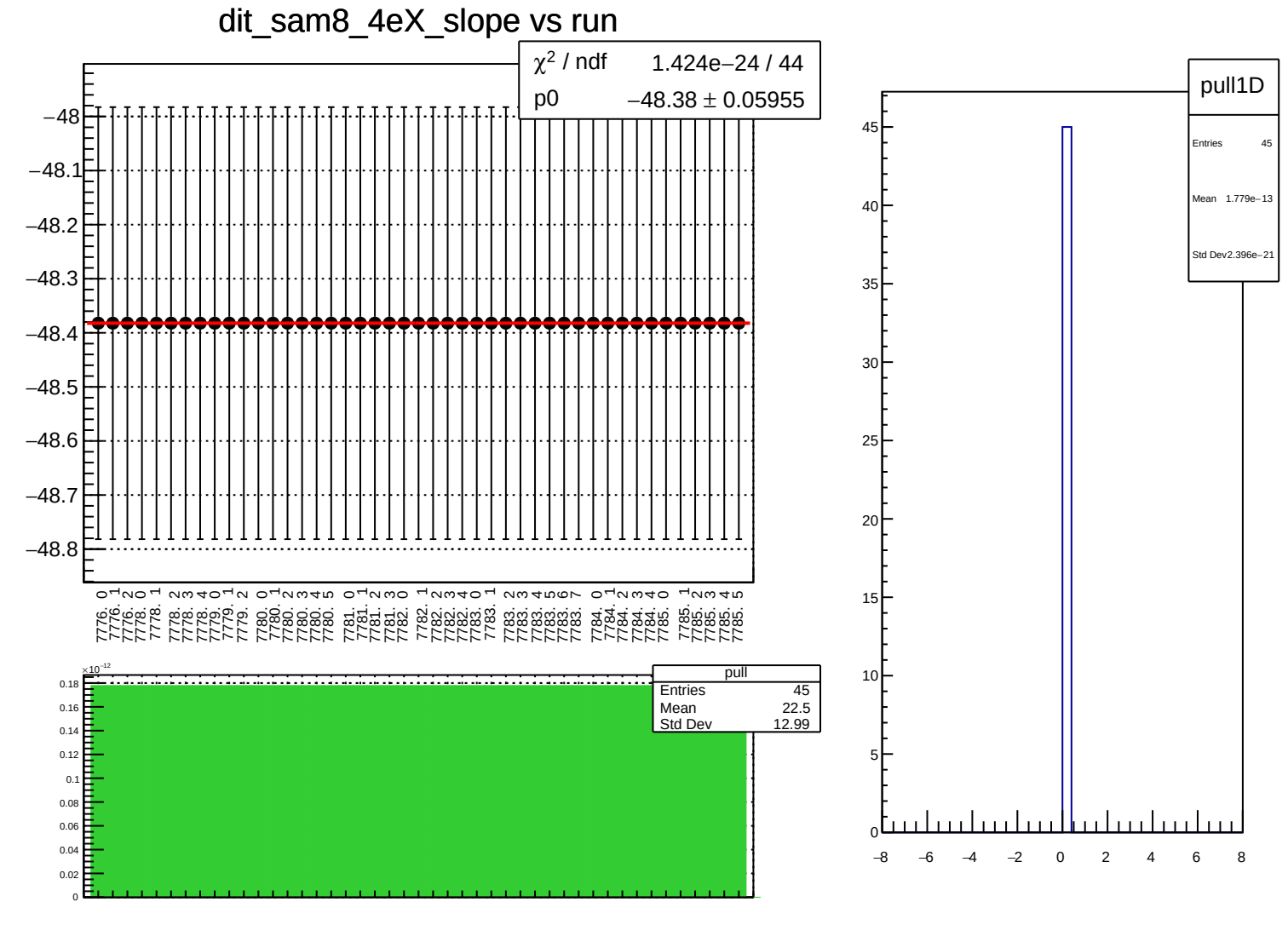
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
0
−5
−10
−15
−20
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −2.081e−14
Std Dev 9.47e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eX_slope vs run
χ² / ndf 1.424e−24 / 44
p0 −48.38 ± 0.05955
−48
−48.1
−48.2
−48.3
−48.4
−48.5
−48.6
−48.7
−48.8
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹²
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean 1.779e−13
Std Dev2.396e−21
45
40
35
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25
20
15
10
5
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−8
−6
−4
−2
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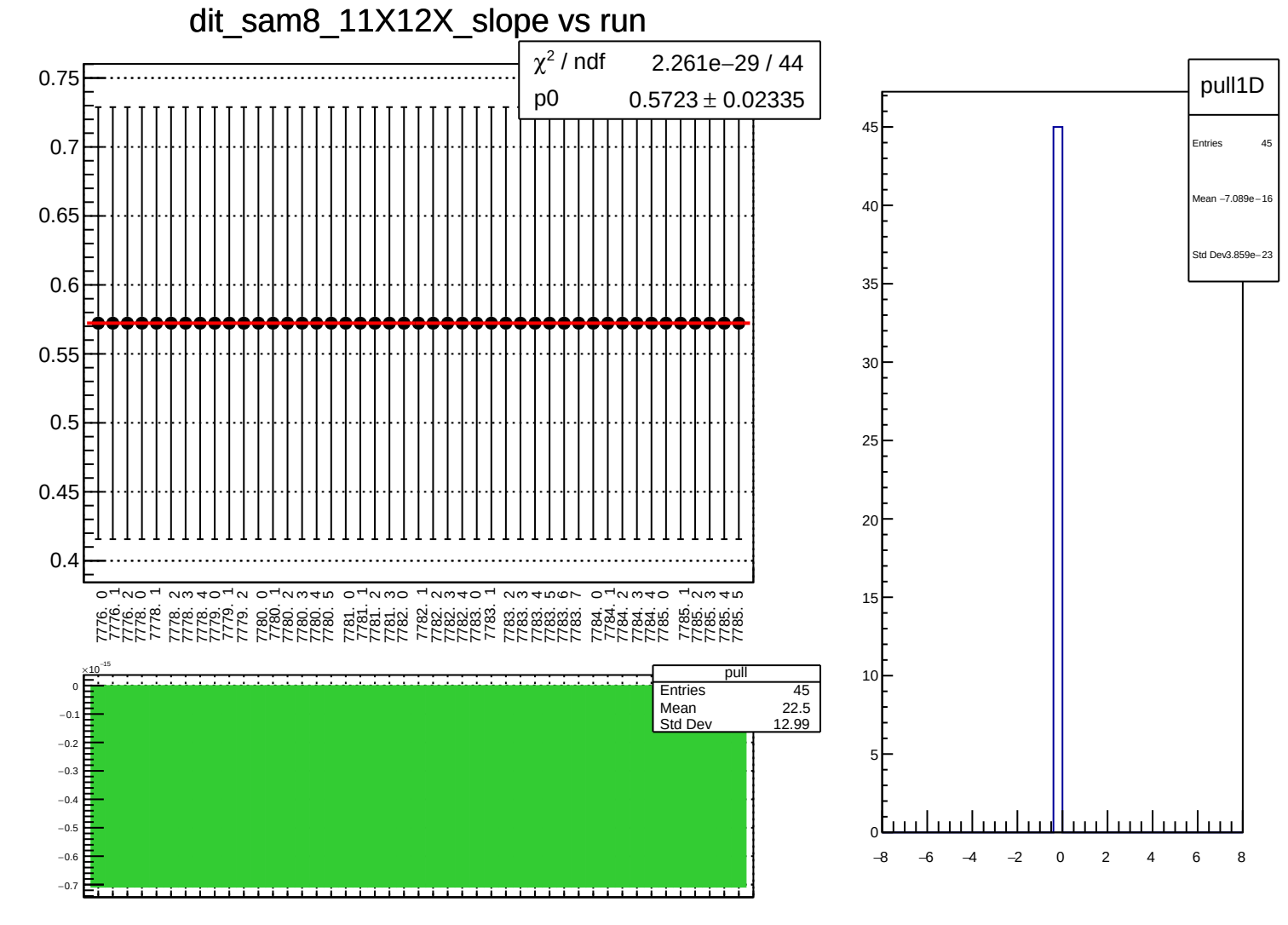
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 2.261e−29 / 44
p0 0.5723 ± 0.02335
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
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7779. 2
7780. 0
7780. 1
7780. 2
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7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
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7782. 1
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7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 45
Mean 22.5
Std Dev 12.99
pull1D
Entries 45
Mean −7.089e−16
Std Dev3.859e−23
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40
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25
20
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6
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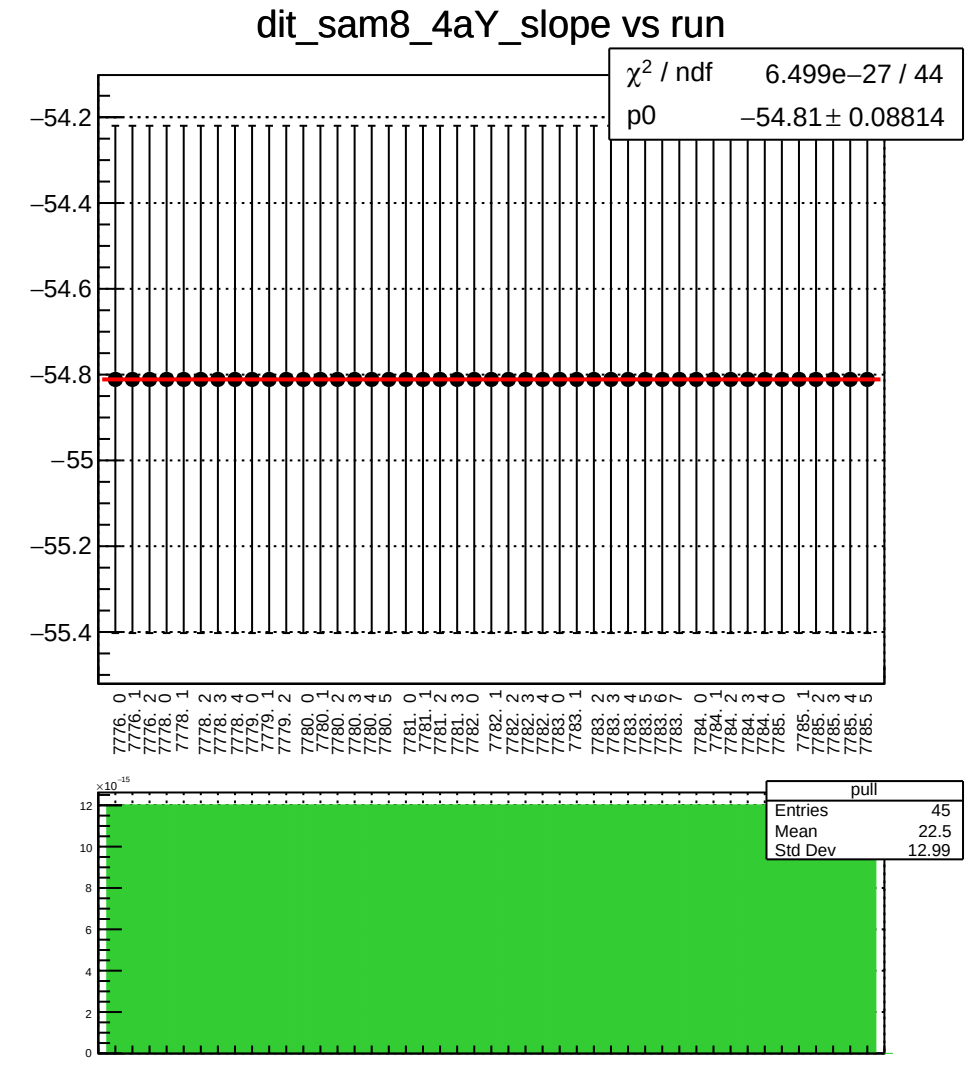
dit_sam8_4aY_slope vs run
χ² / ndf 6.499e−27 / 44
p0 −54.81 ± 0.08814
−54.2
−54.4
−54.6
−54.8
−55
−55.2
−55.4
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
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7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
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7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
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7783. 0
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7783. 2
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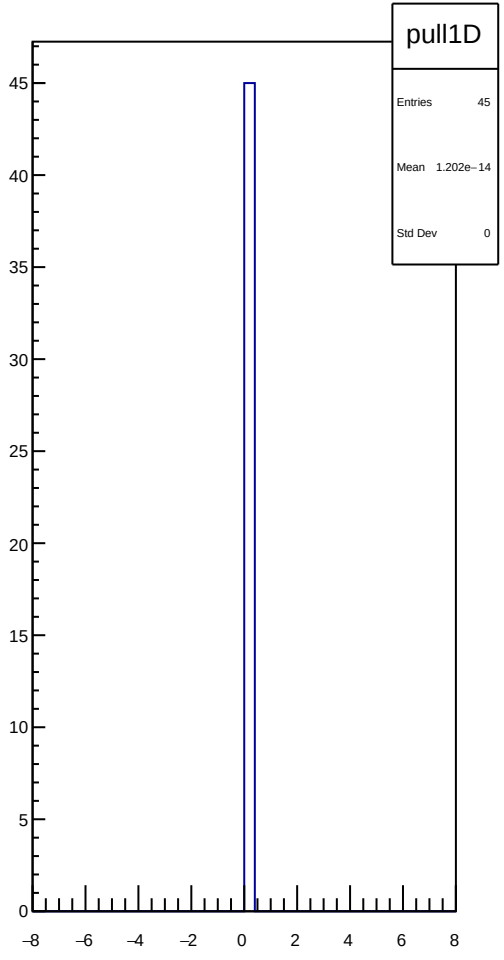
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
12
10
8
6
4
2
0
pull
Entries 45
Mean 22.5
Std Dev 12.99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Entries 45
Mean 1.202e−14
Std Dev 0
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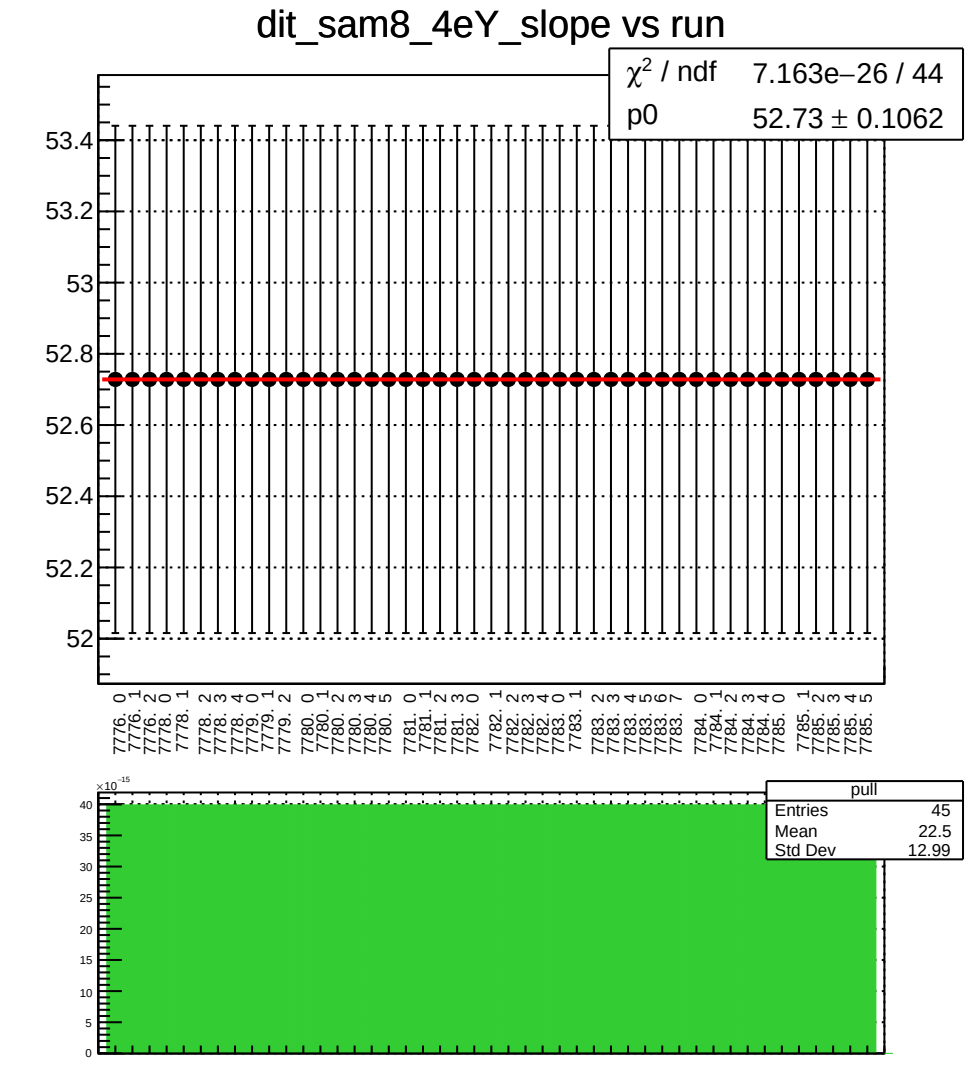
6
8


dit_sam8_4eY_slope vs run
χ² / ndf 7.163e−26 / 44
p0 52.73 ± 0.1062
53.4
53.2
53
52.8
52.6
52.4
52.2
52
7776. 0
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7776. 2
7778. 0
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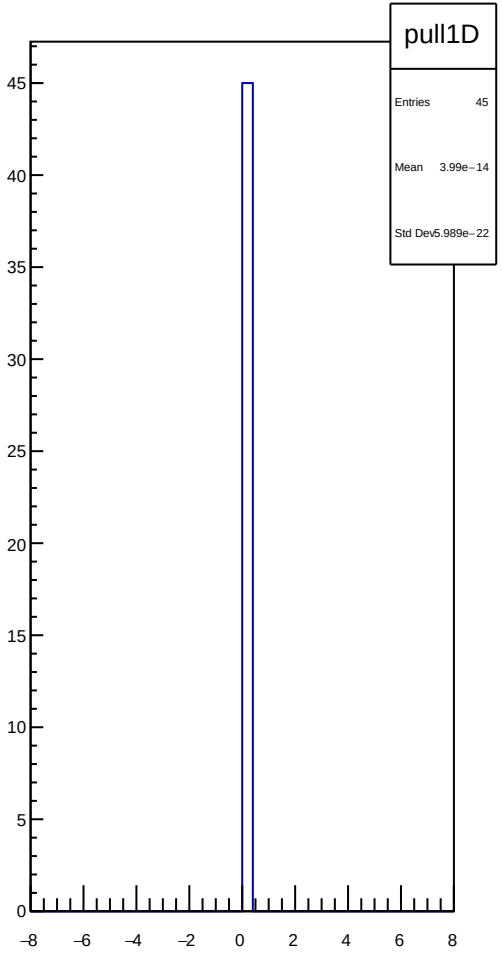
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻�15
40
35
30
25
20
15
10
5
0
pull
Entries 45
Mean 22.5
Std Dev 12.99


pull1D
Entries 45
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Std Dev 5.989e−22
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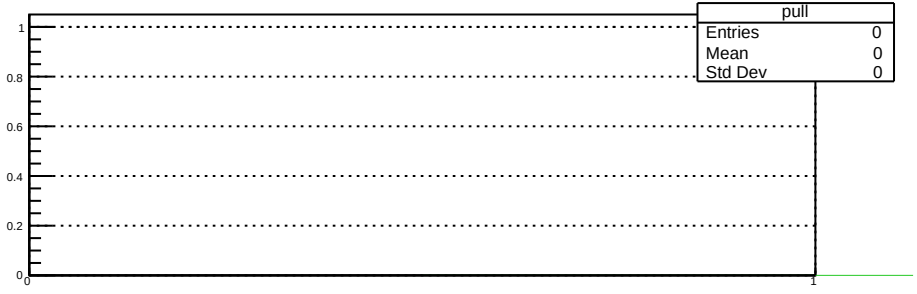
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Mean 0
Std Dev 0
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0.6
0.4
0.2
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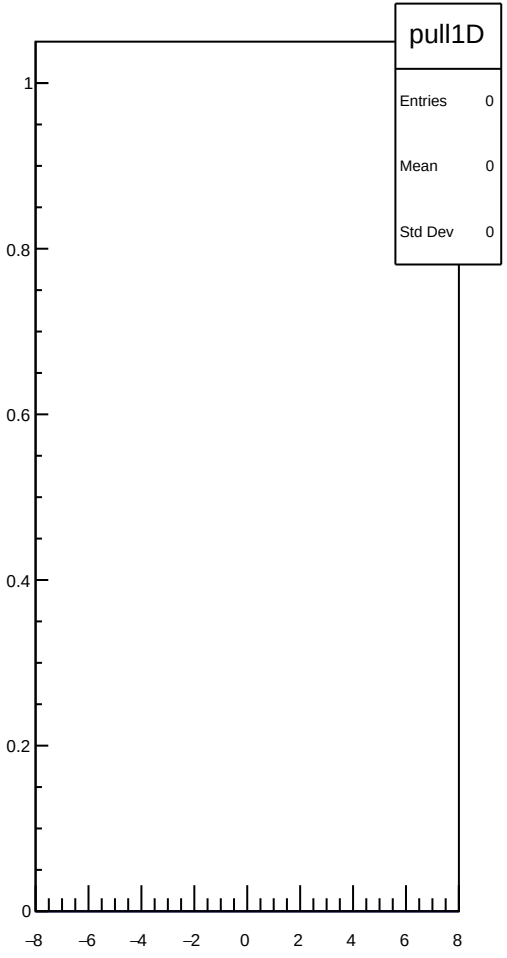
pull1D
Entries 0
Mean 0
Std Dev 0
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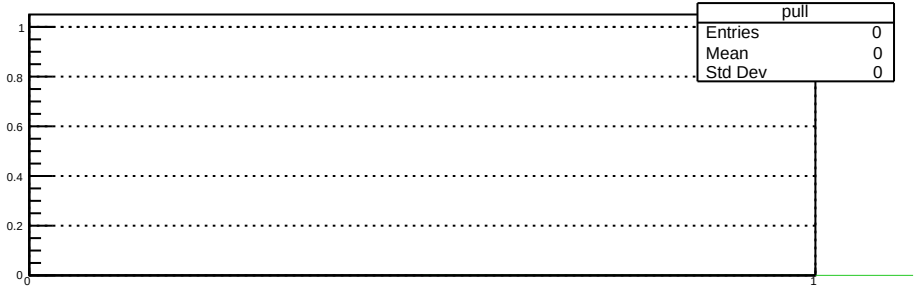
pull
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Std Dev 0
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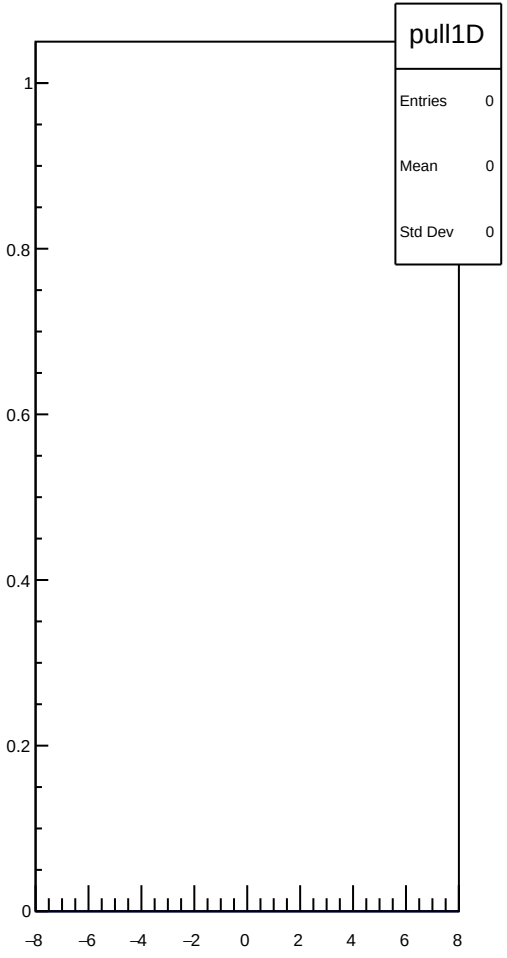
pull1D
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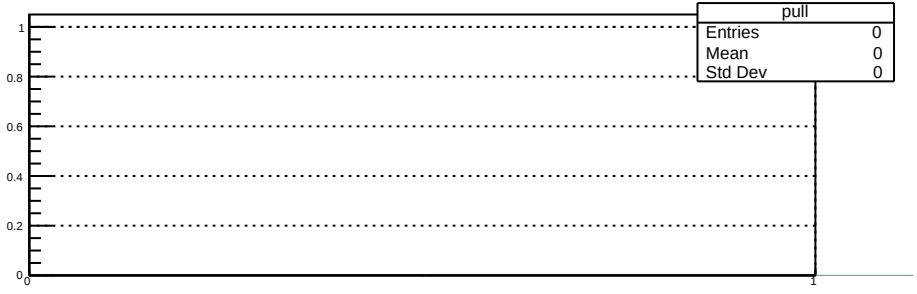
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Std Dev 0
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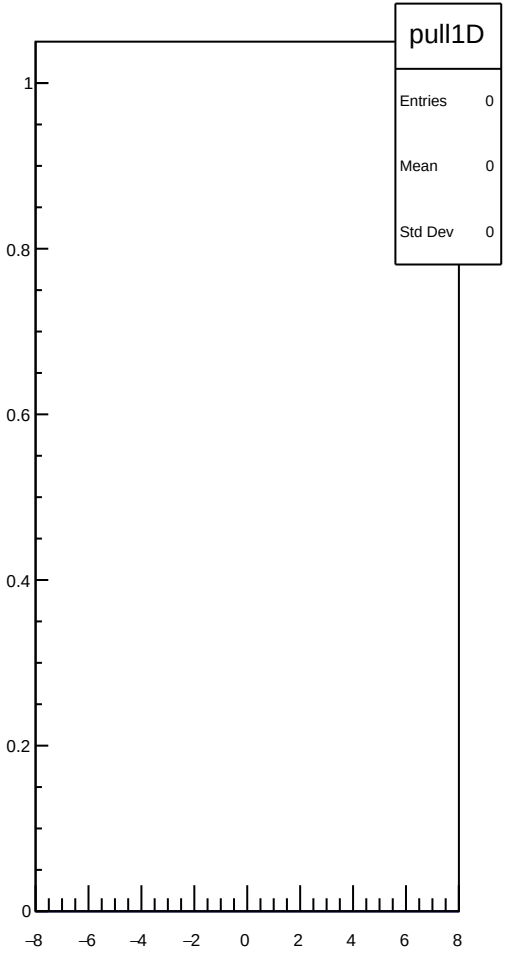
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Entries 0
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Std Dev 0
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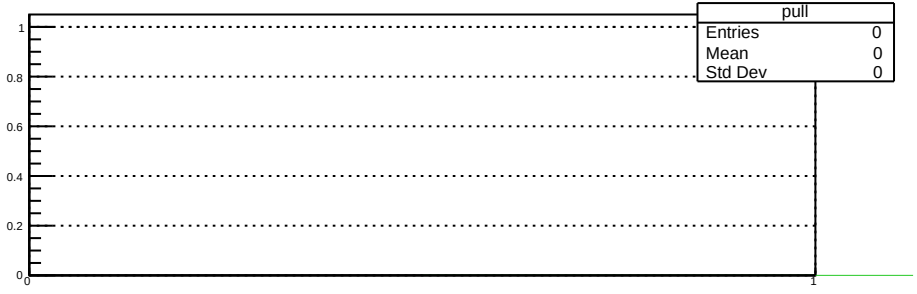
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Std Dev 0
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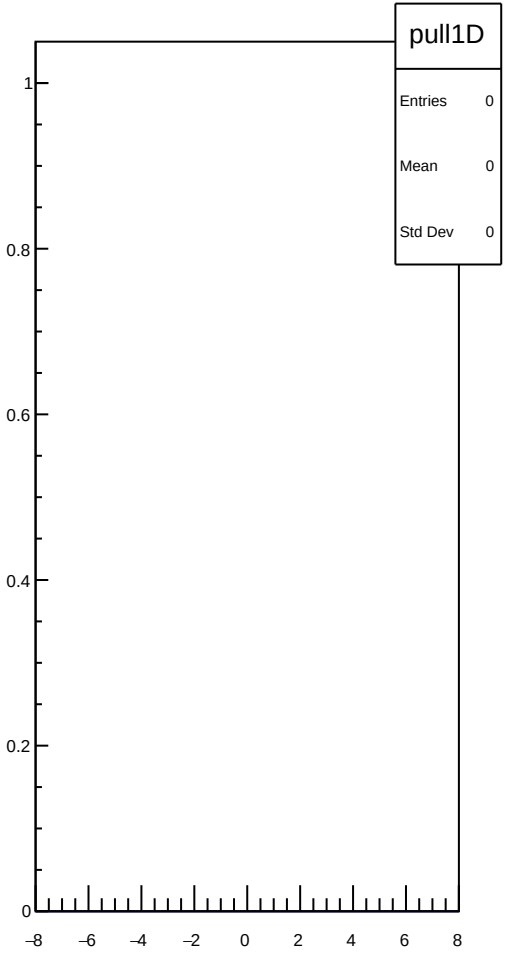
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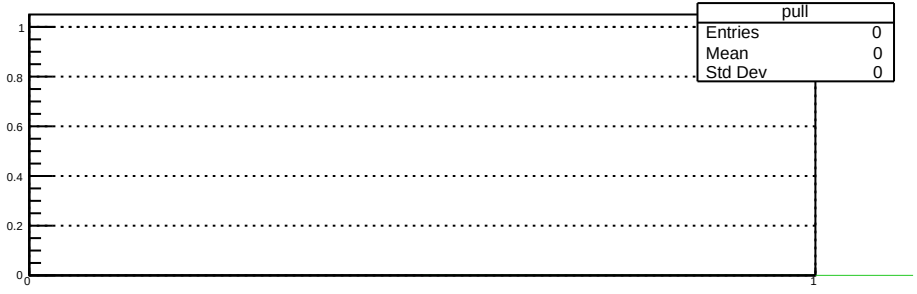
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Std Dev 0
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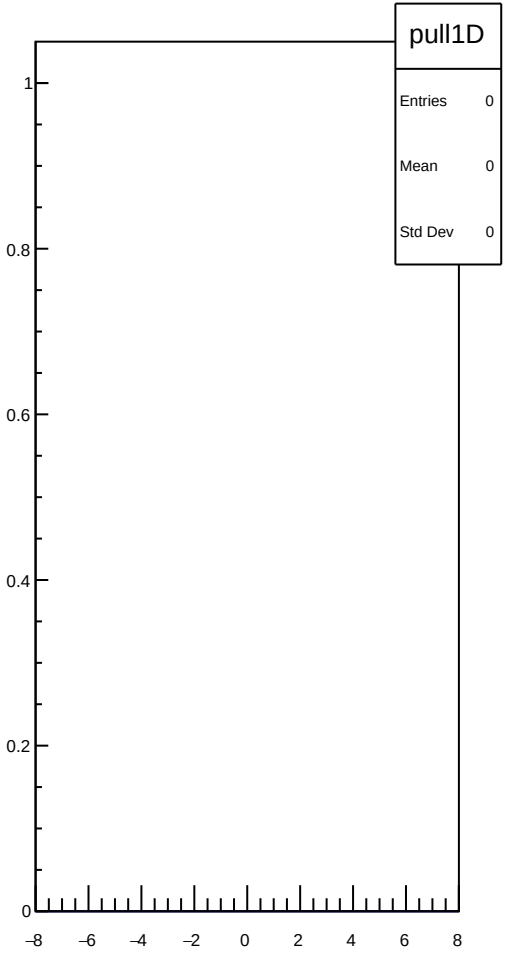
pull1D
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Std Dev 0
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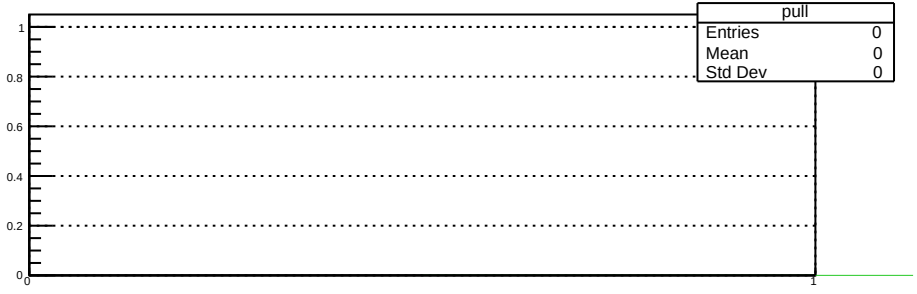
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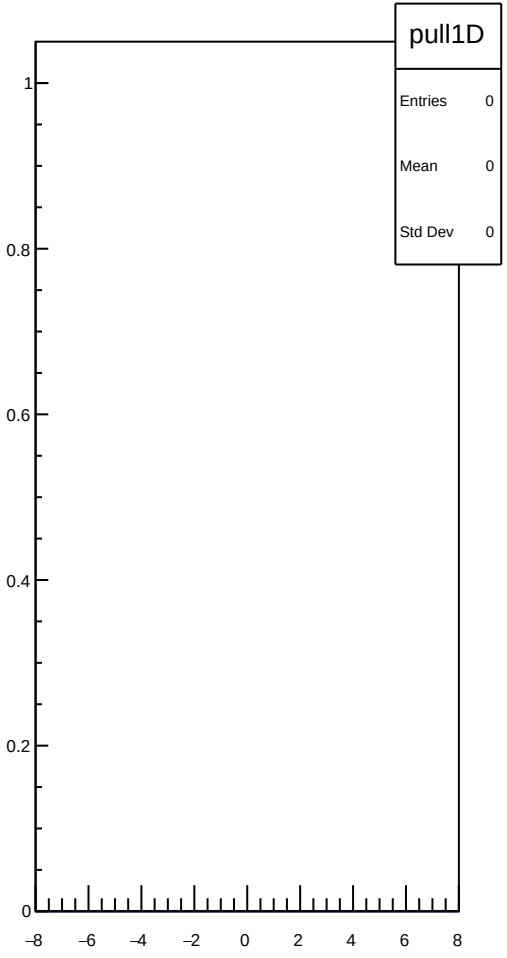
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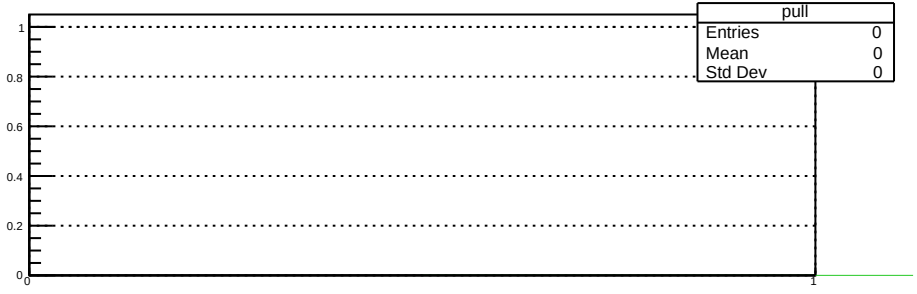
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Std Dev 0
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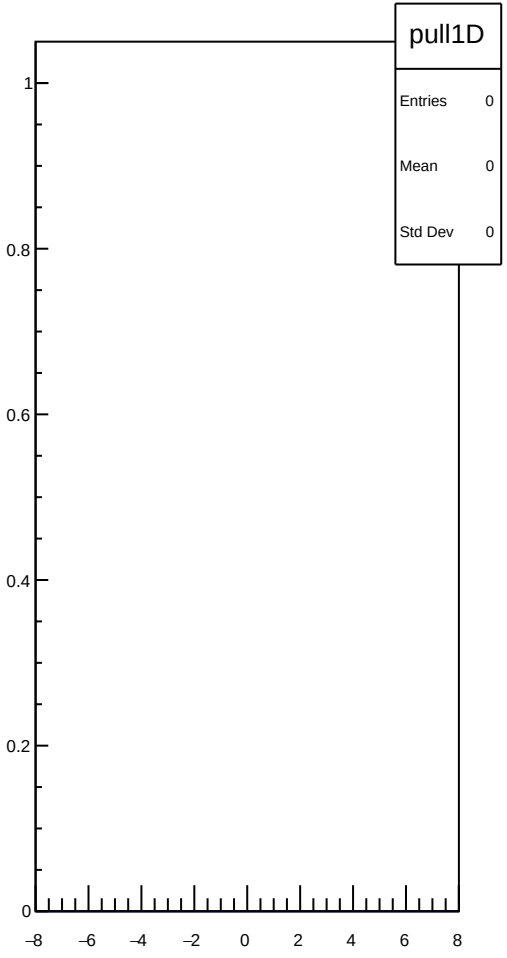
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Std Dev 0
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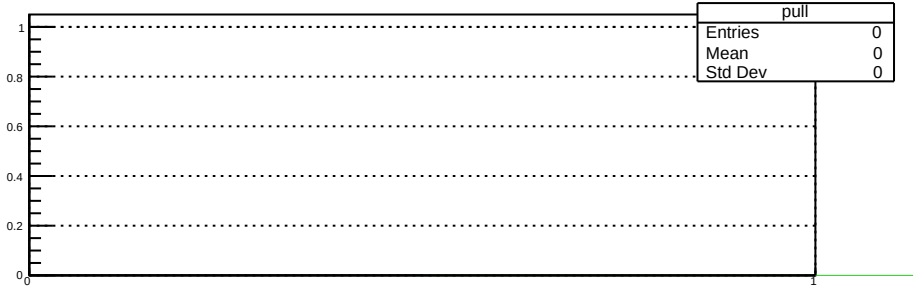
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Std Dev 0
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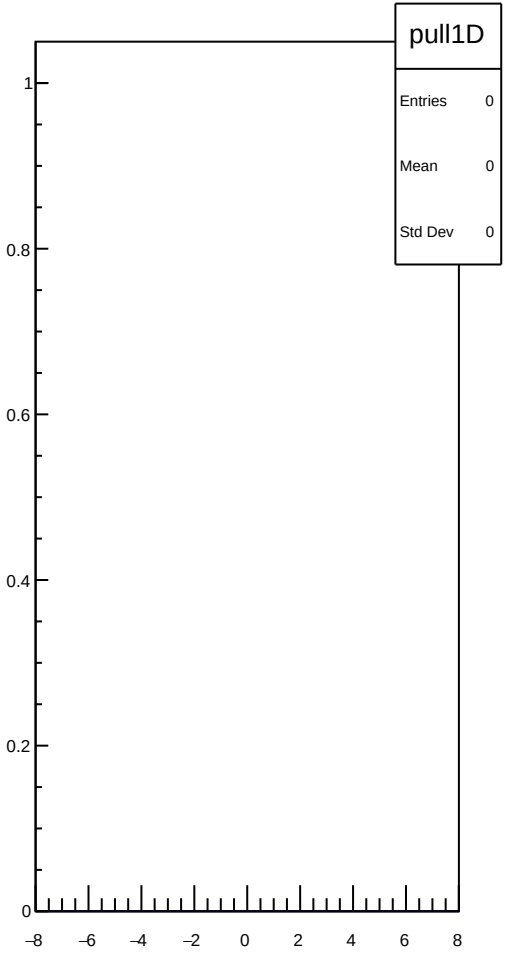
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Std Dev 0
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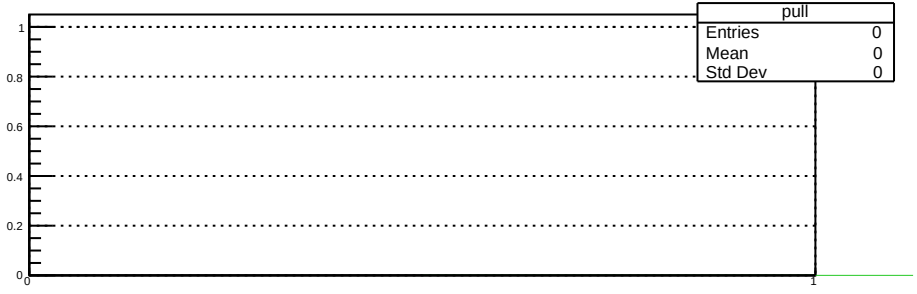
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Std Dev 0
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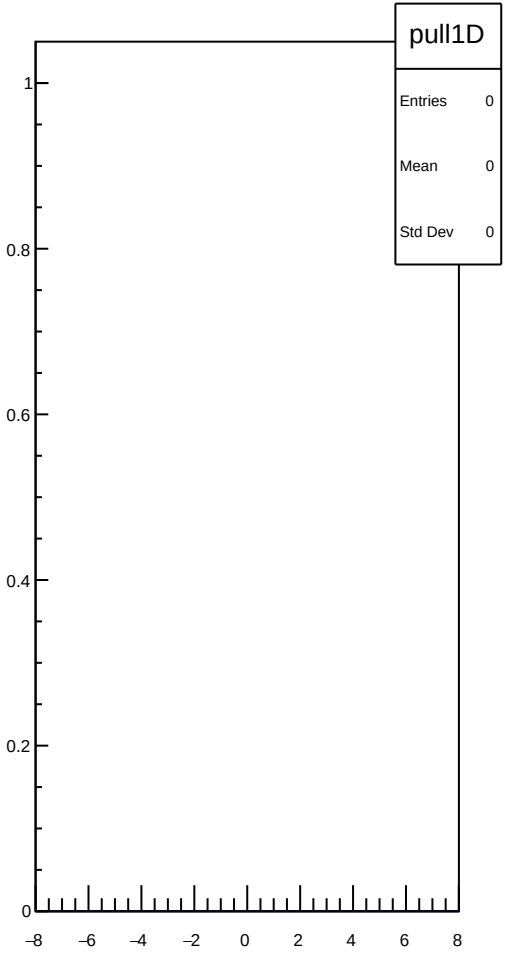
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Std Dev 0
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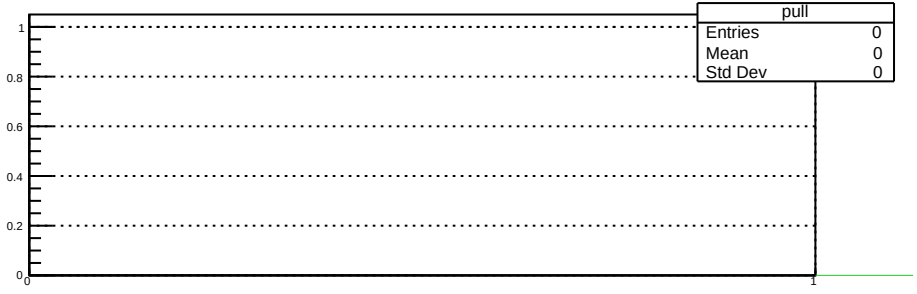
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Mean 0
Std Dev 0
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0.6
0.4
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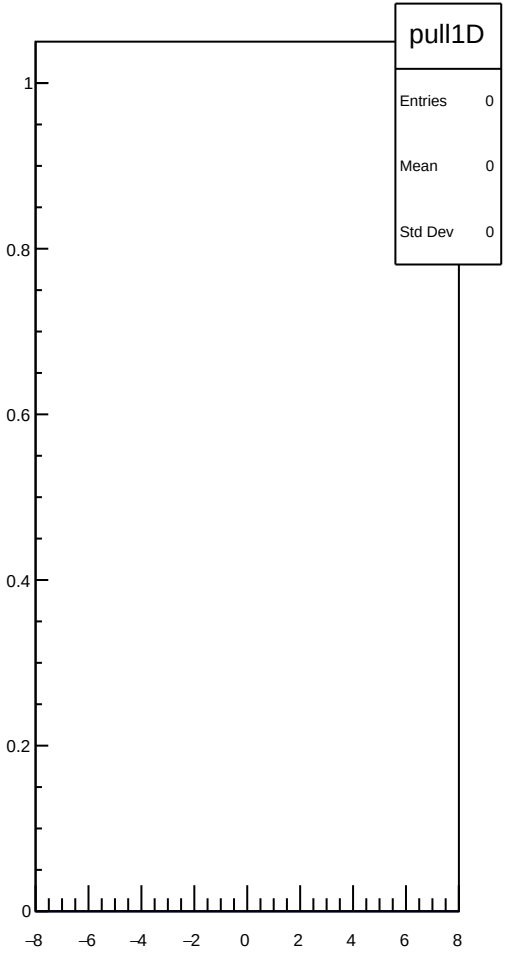
pull1D
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Mean 0
Std Dev 0
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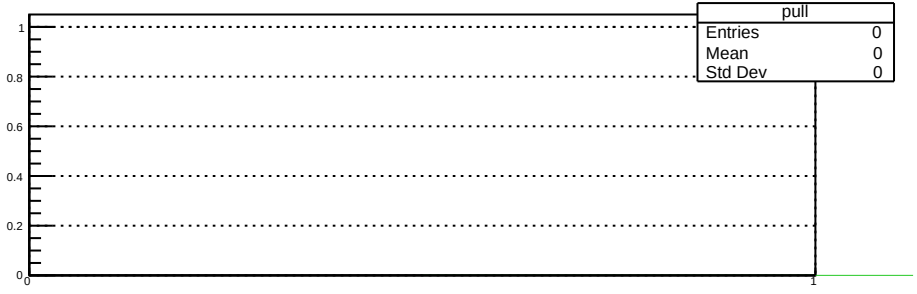
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Std Dev 0
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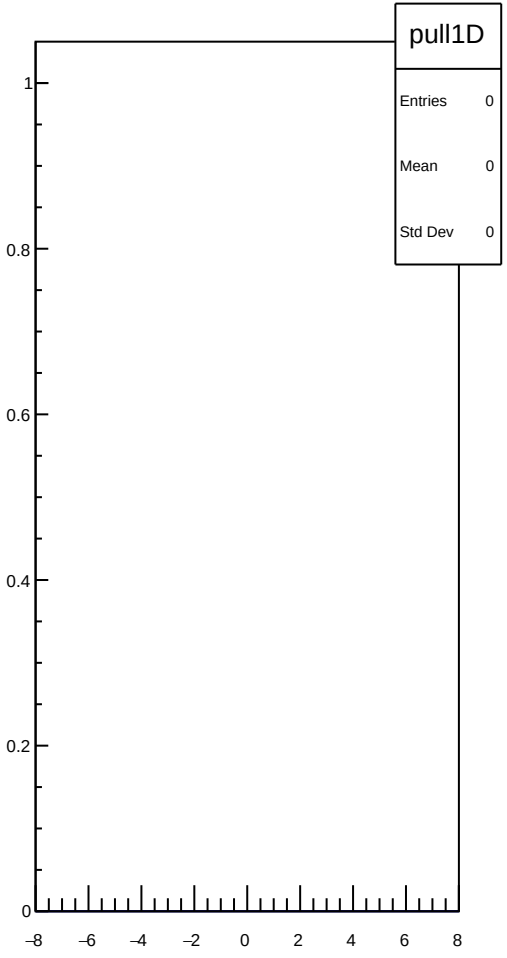
pull1D
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Std Dev 0
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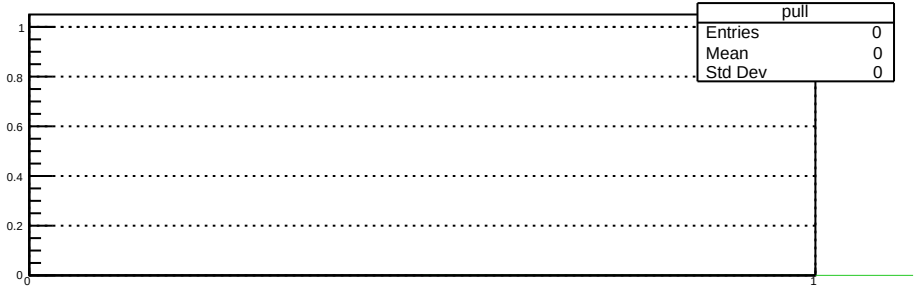
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Std Dev 0
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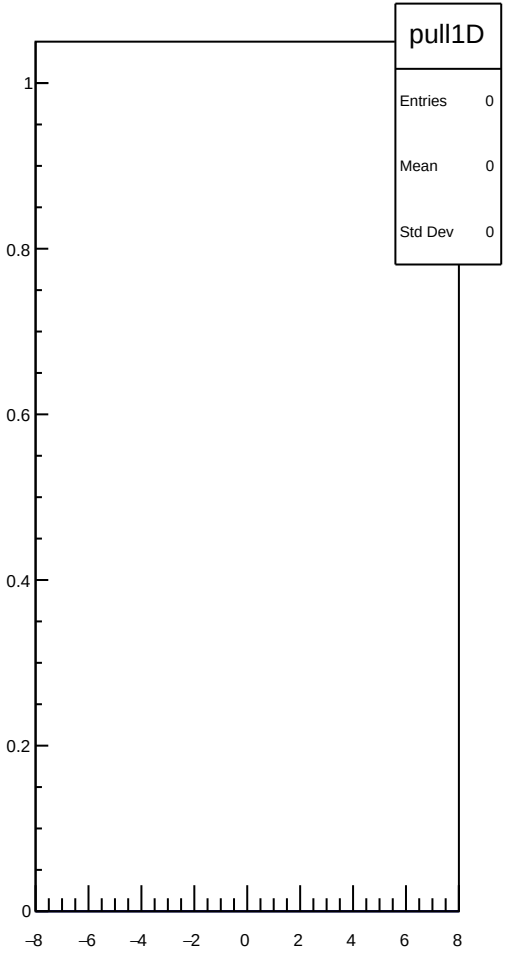
pull1D
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Std Dev 0
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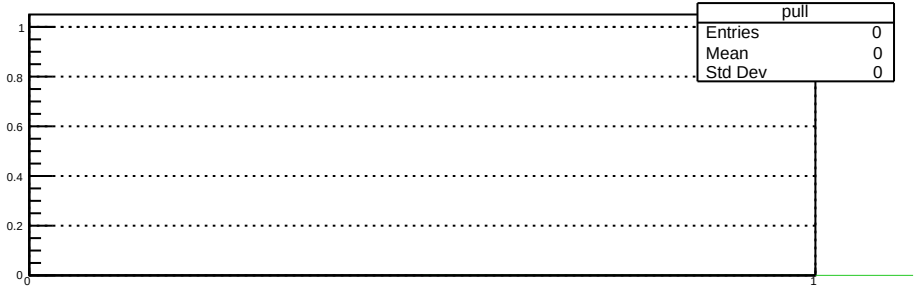
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Std Dev 0
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0.4
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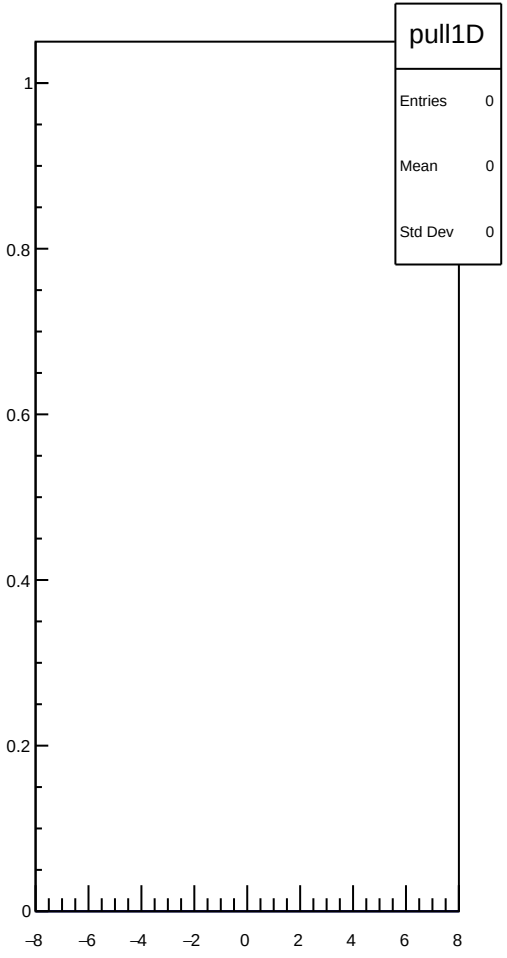
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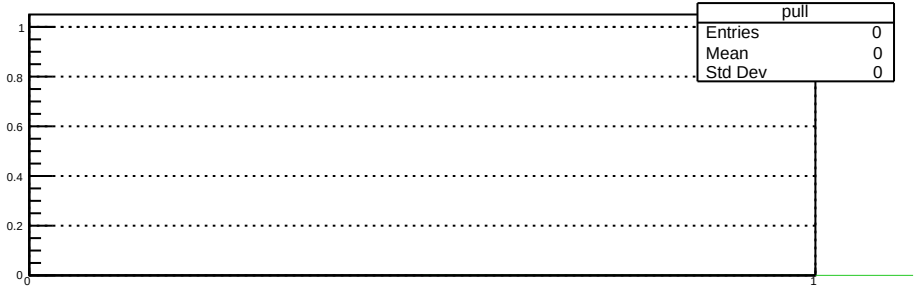
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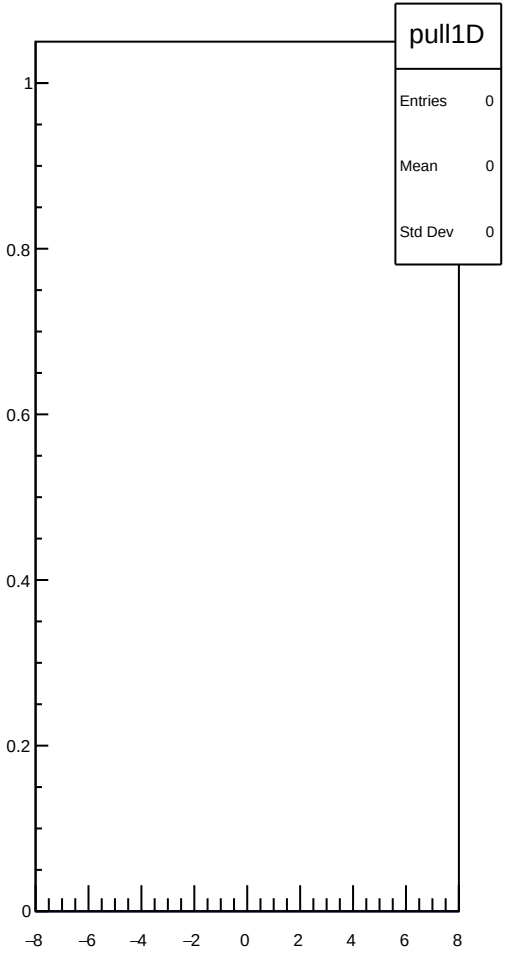
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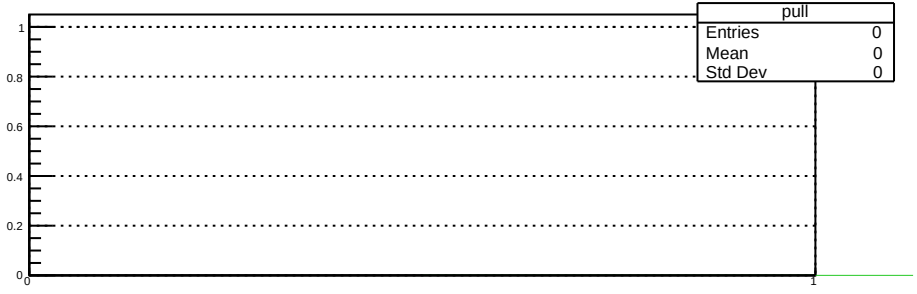
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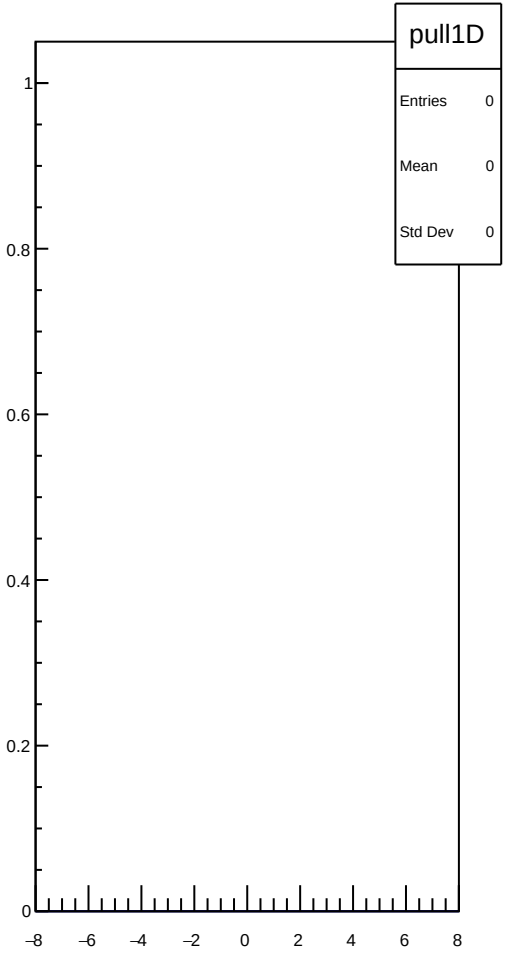
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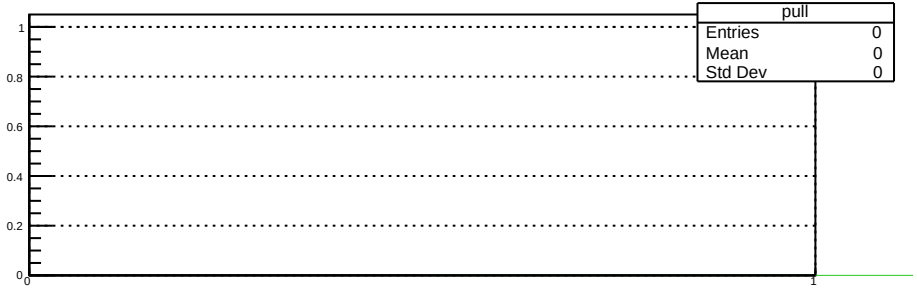
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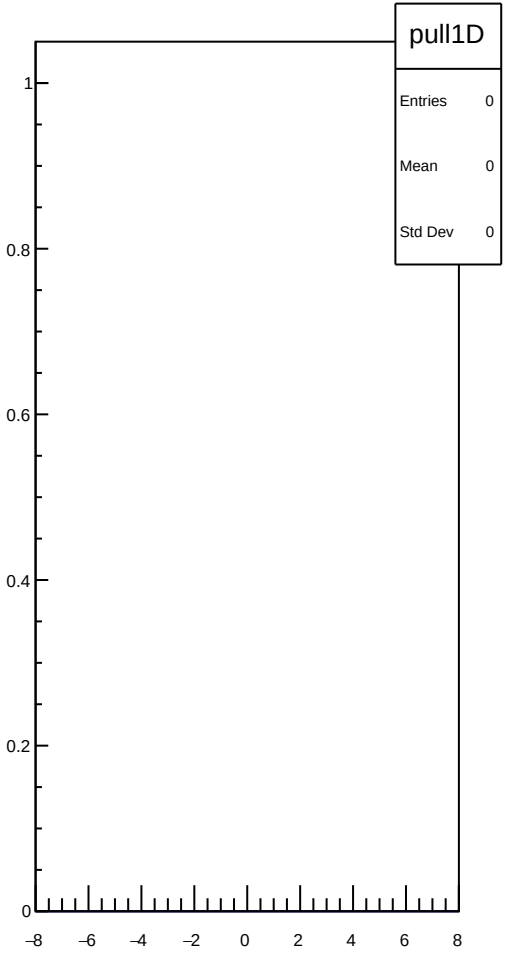
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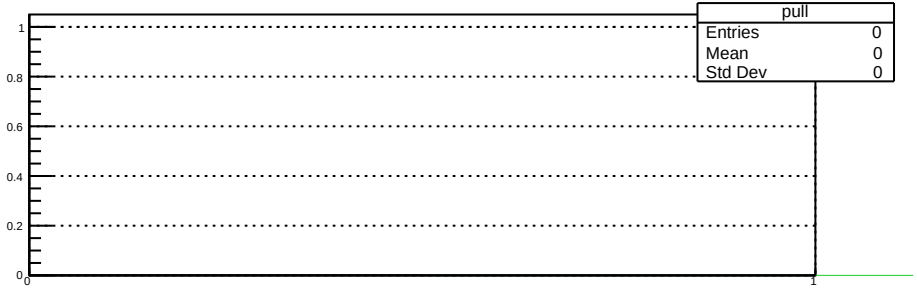
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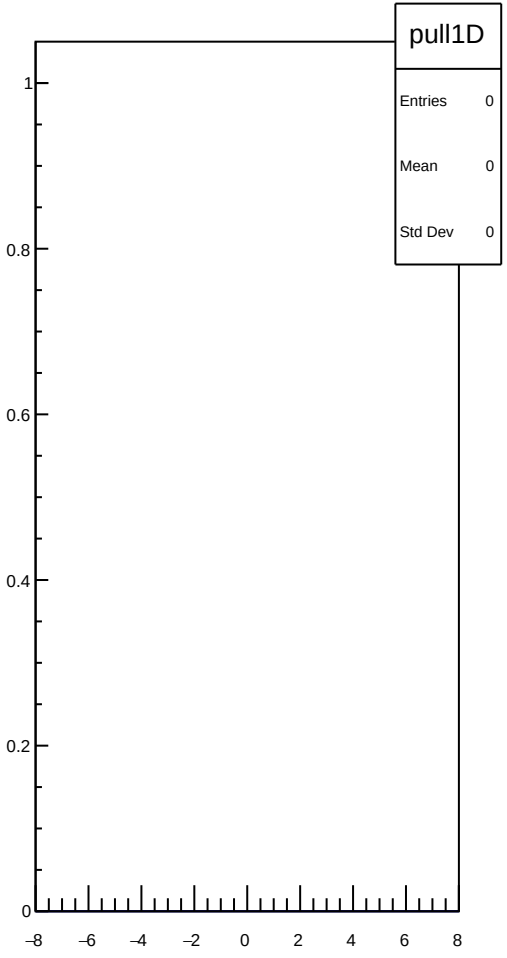
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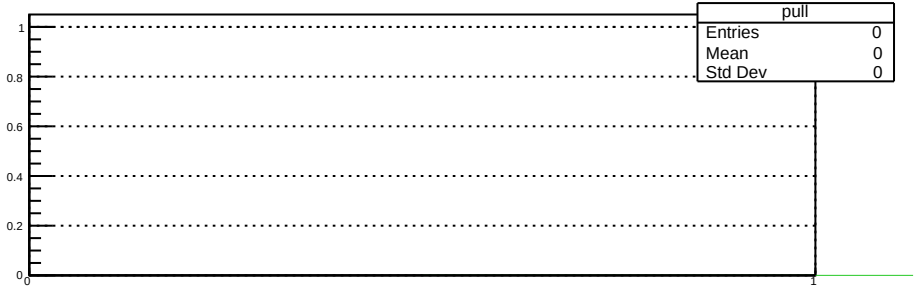
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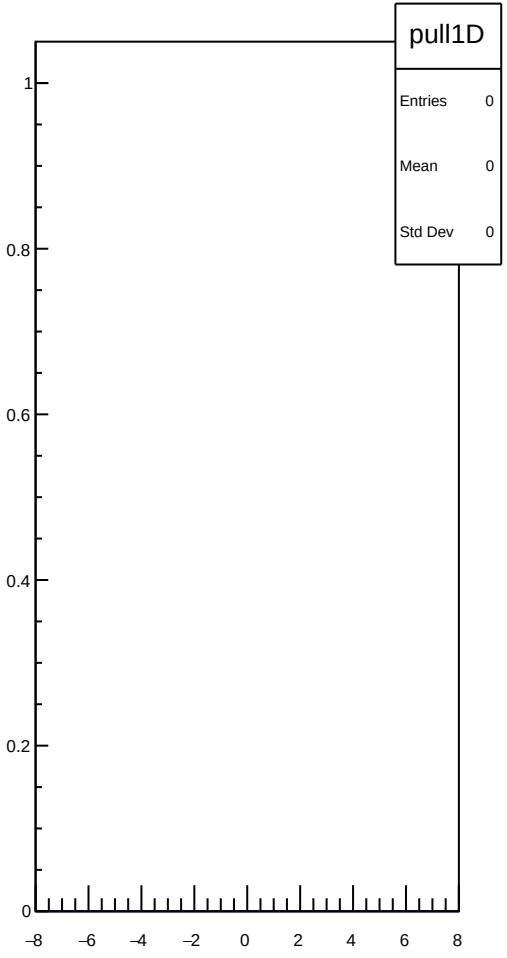
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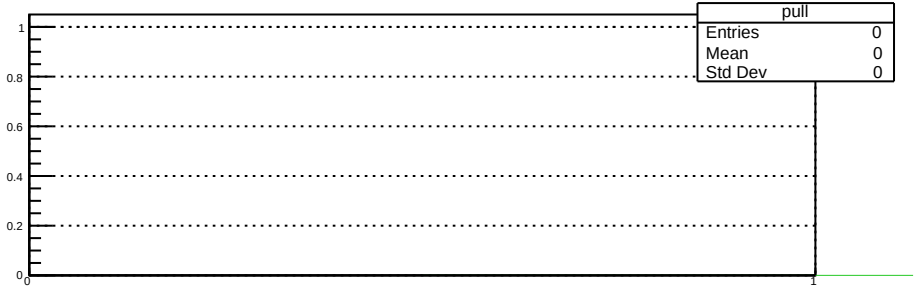
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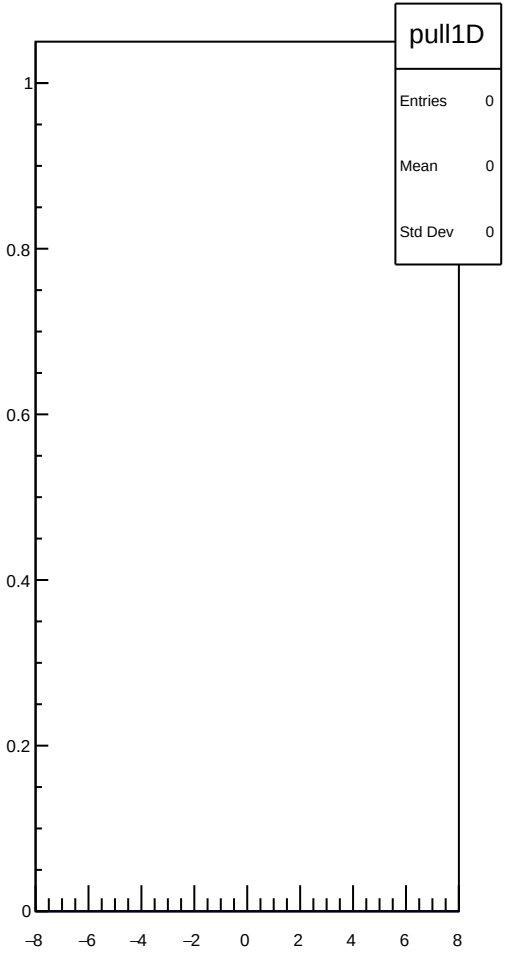
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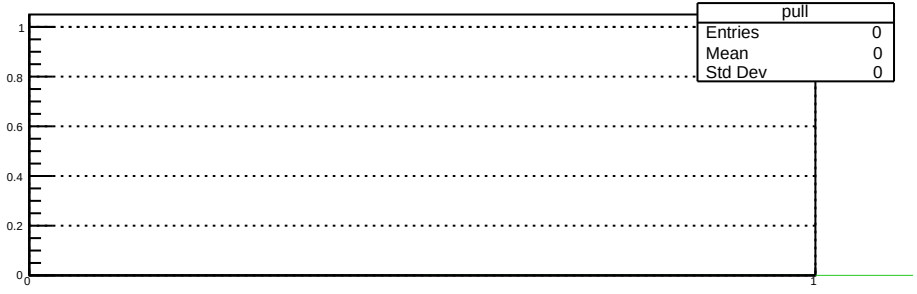
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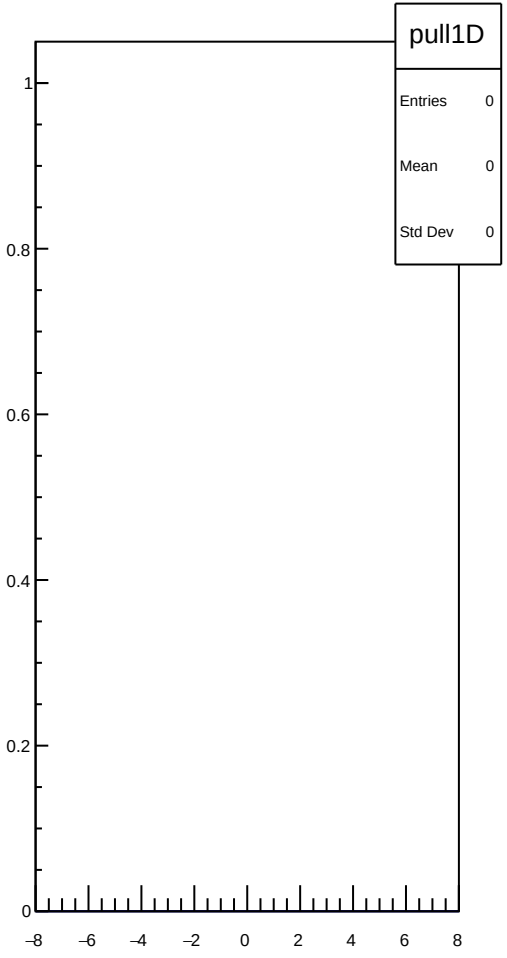
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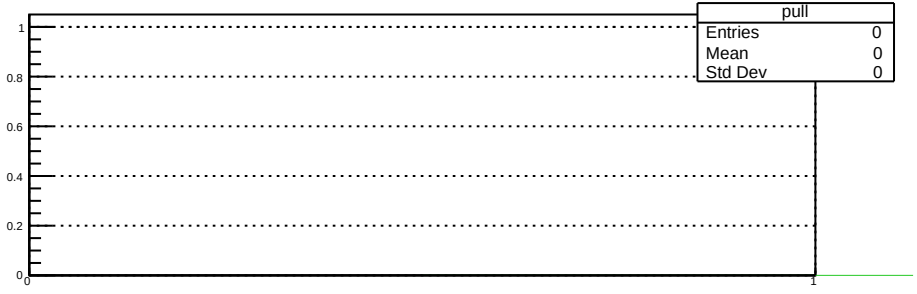
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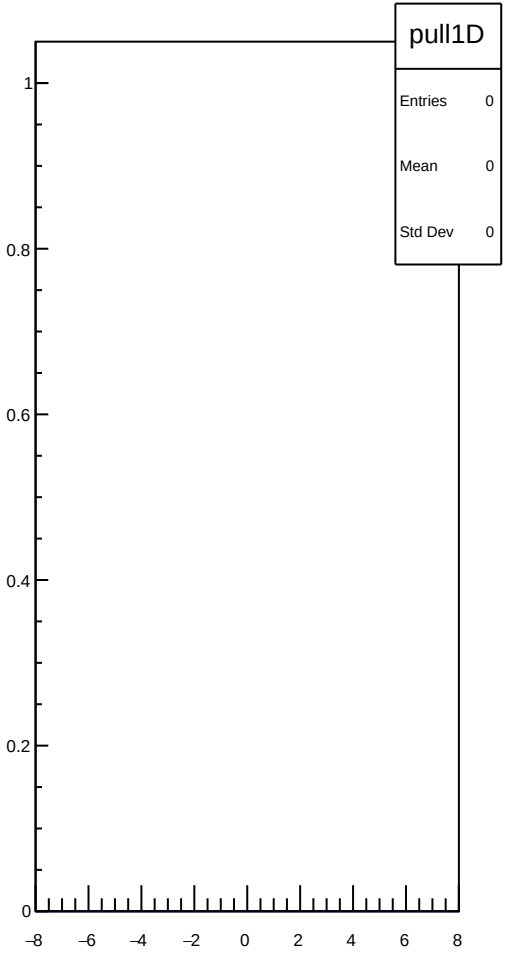
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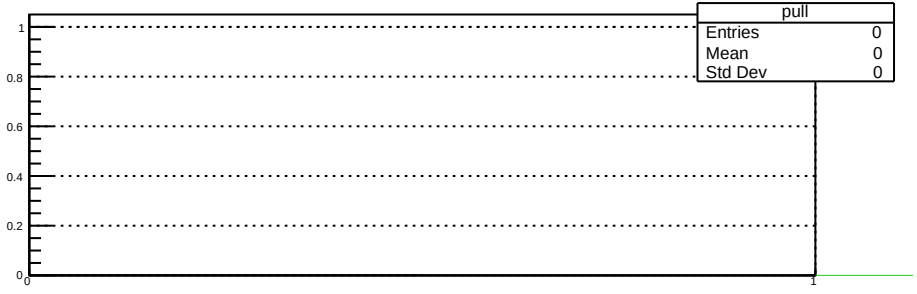
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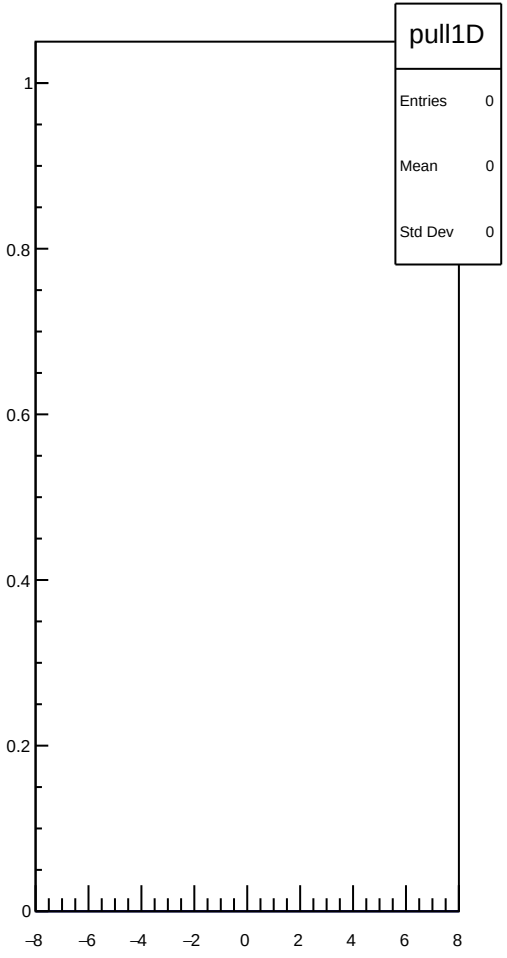
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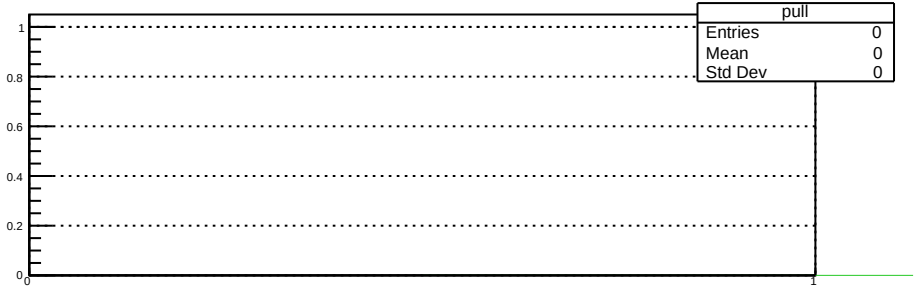
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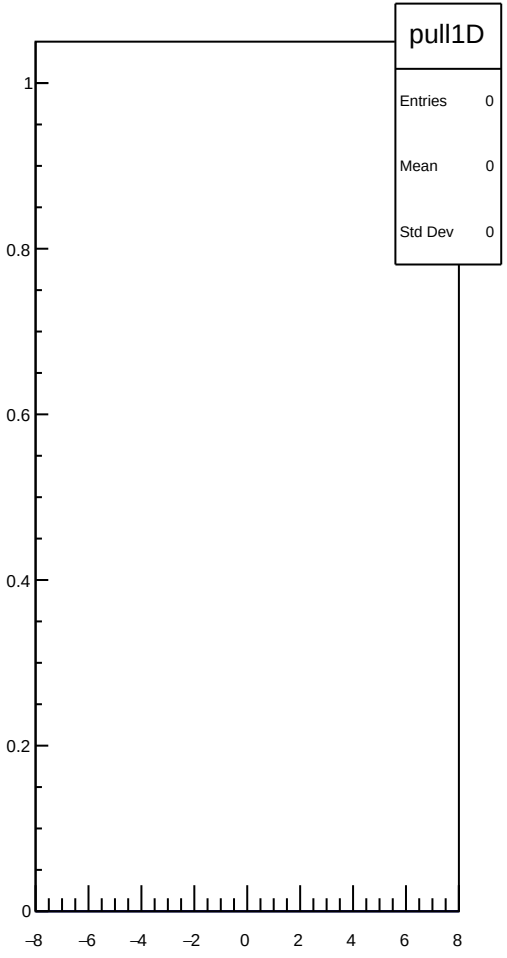
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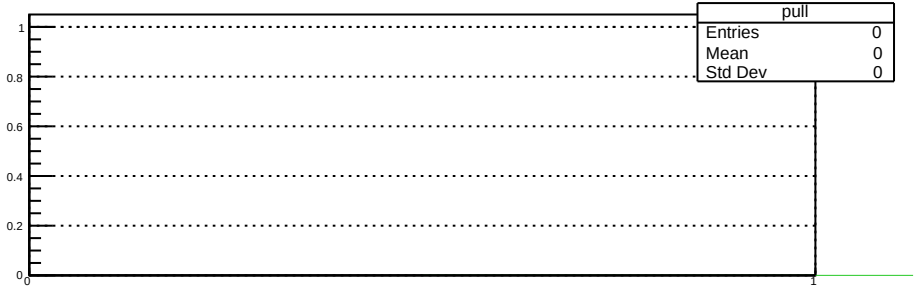
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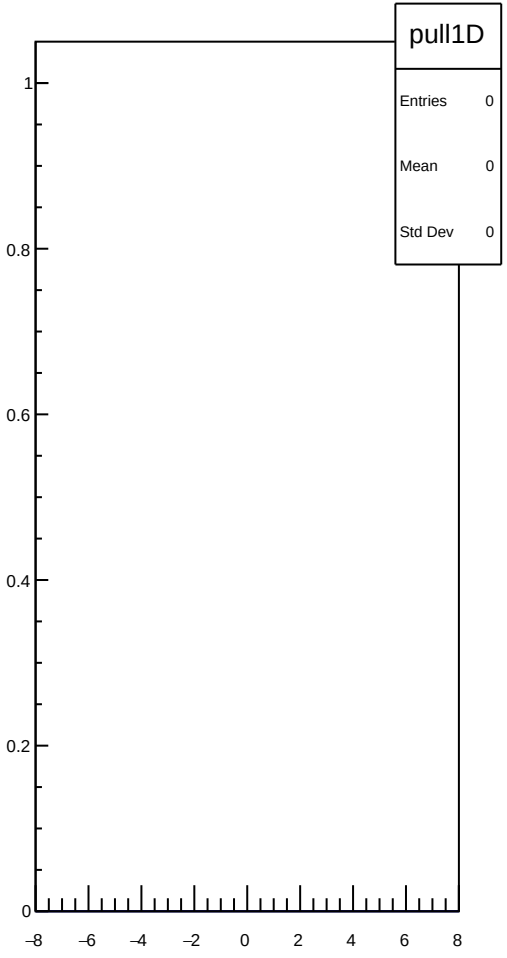
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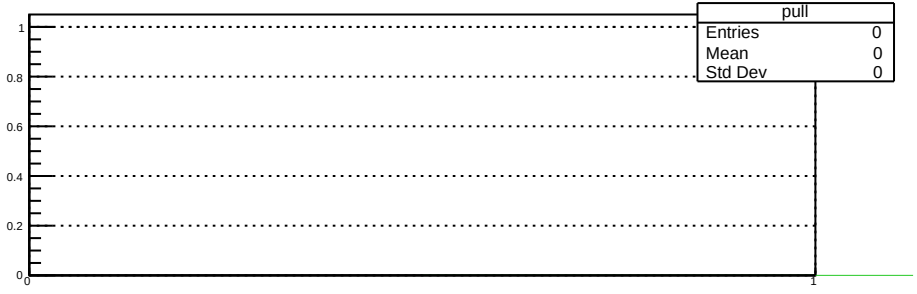
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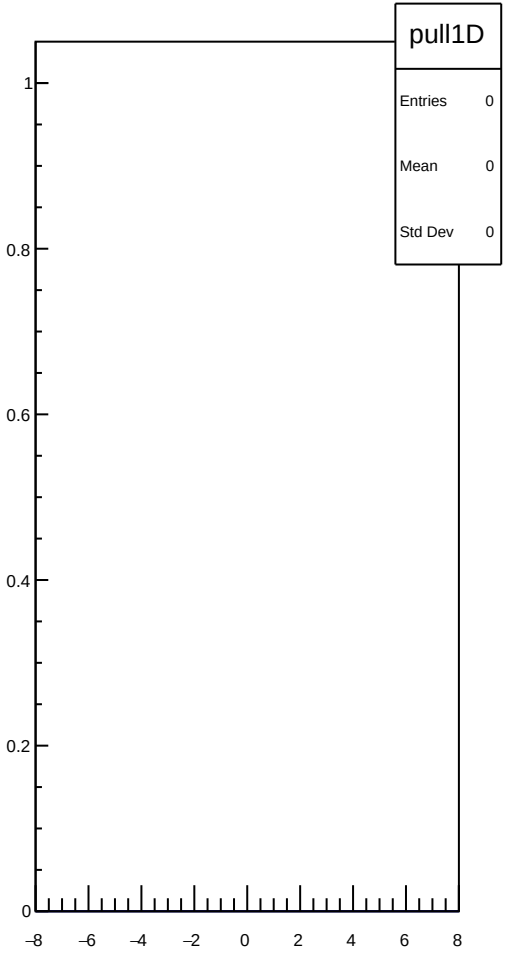
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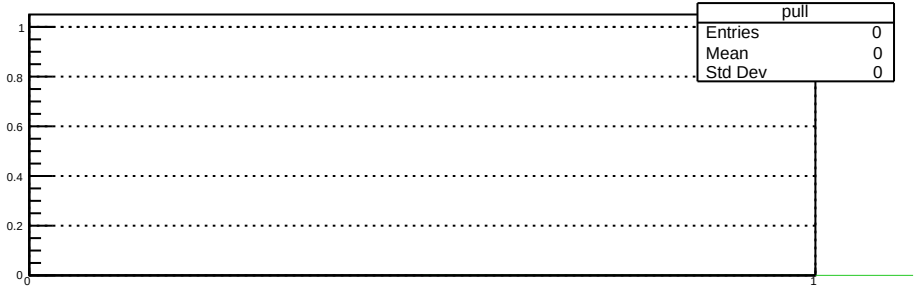
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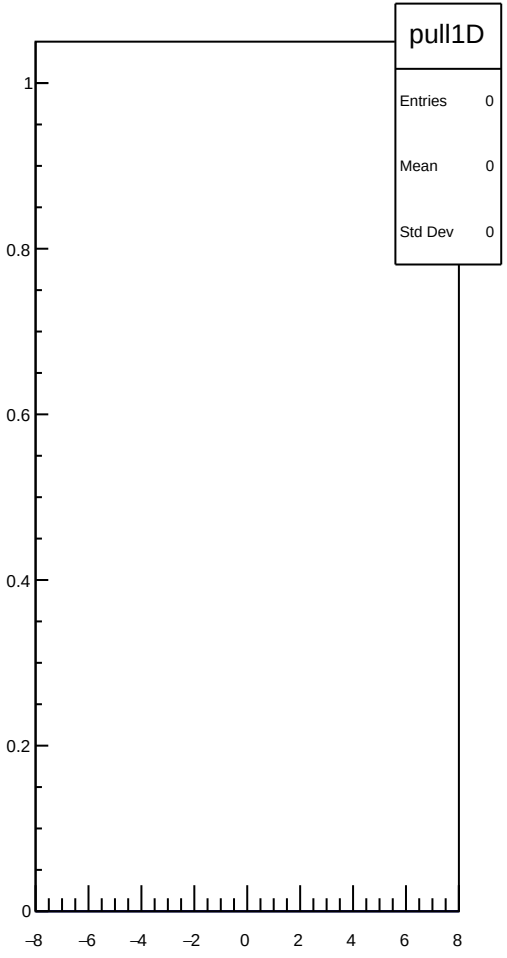
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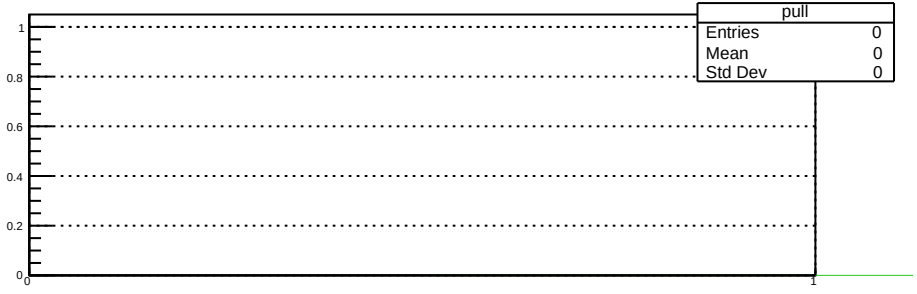
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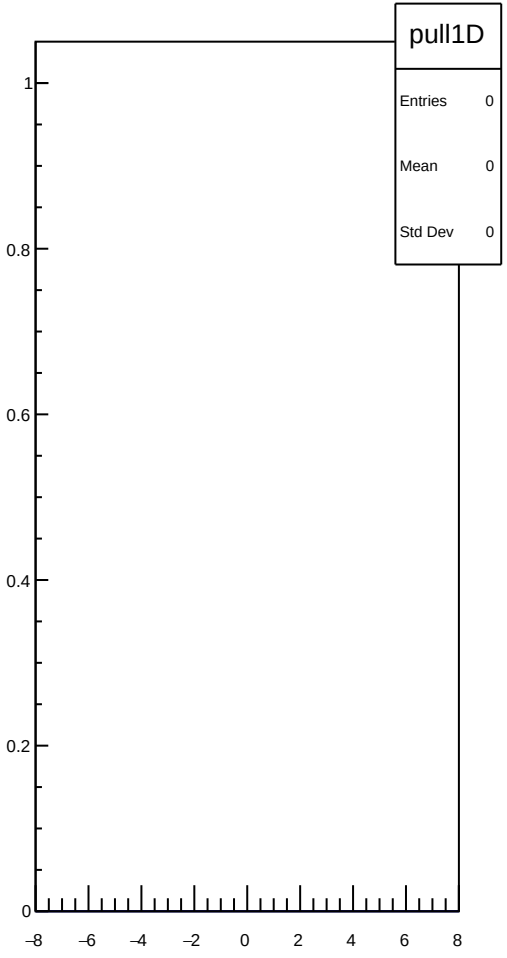
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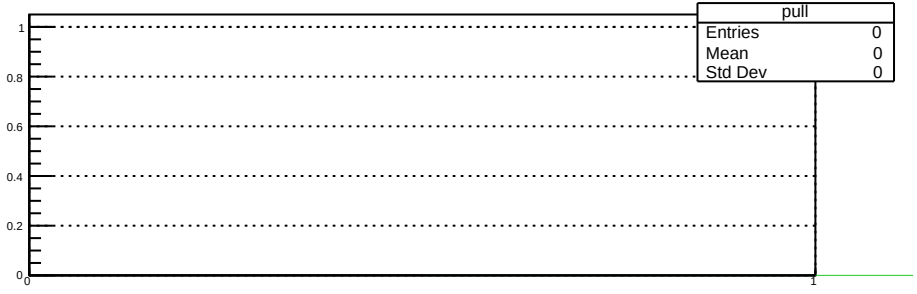
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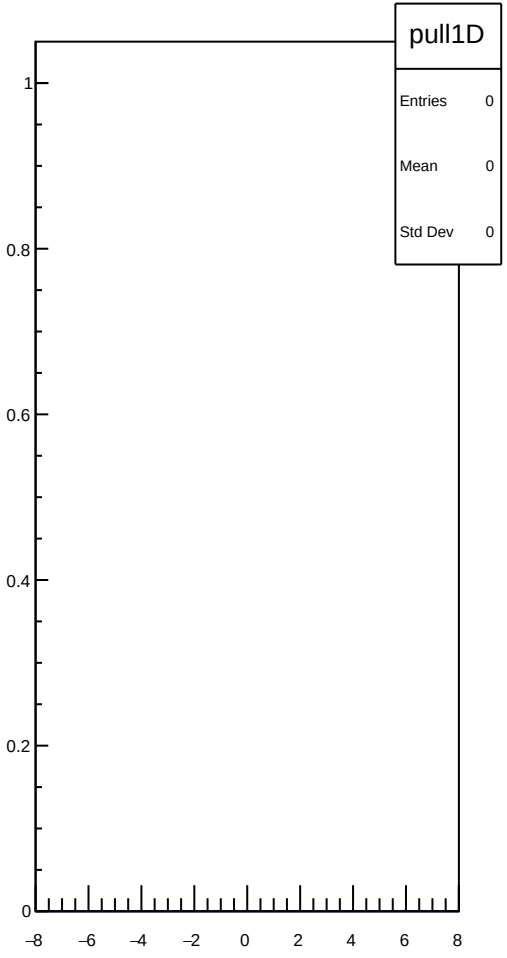
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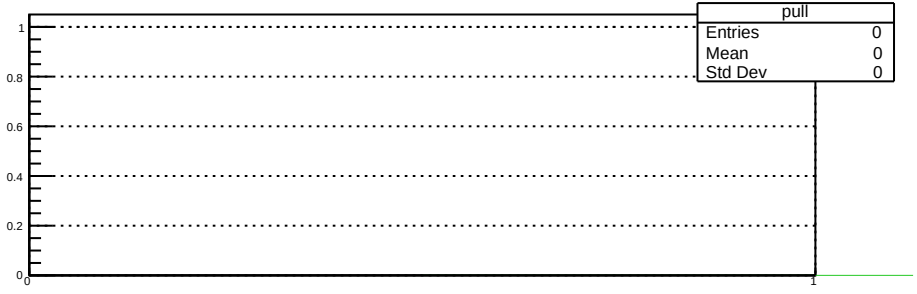
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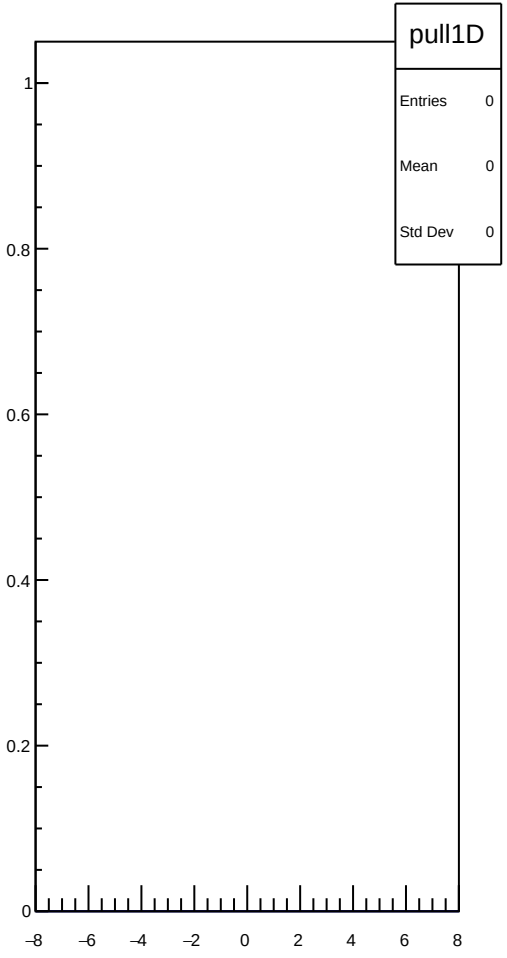
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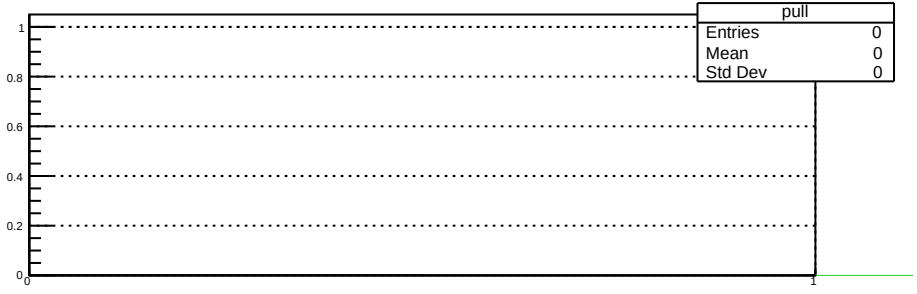
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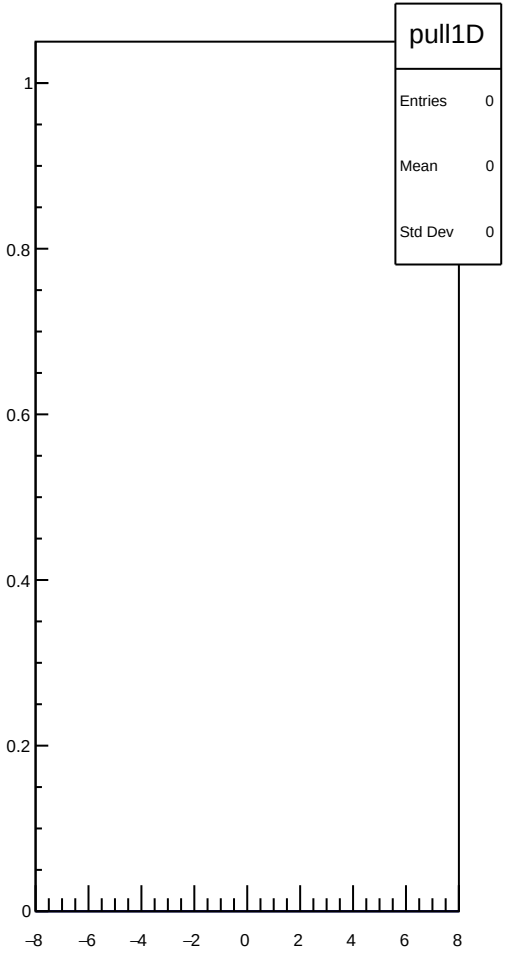
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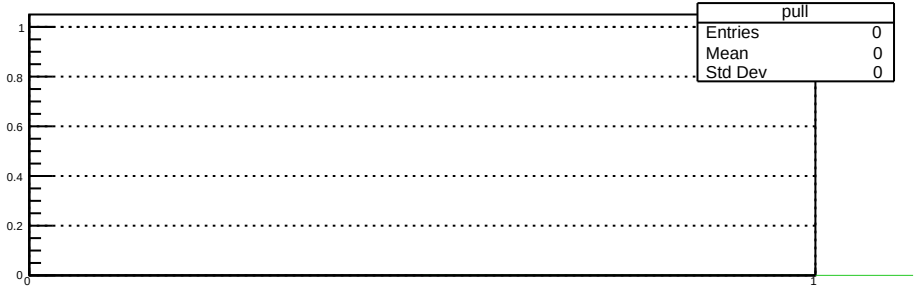
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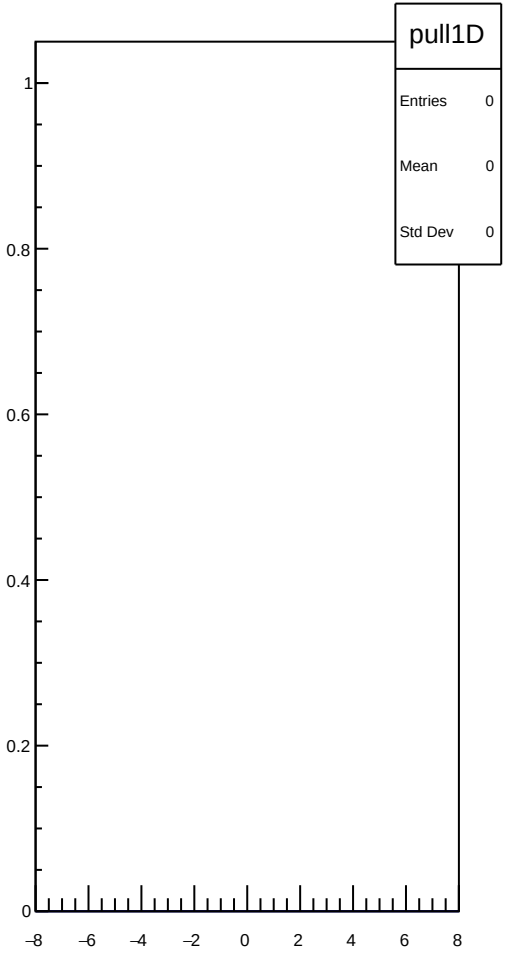
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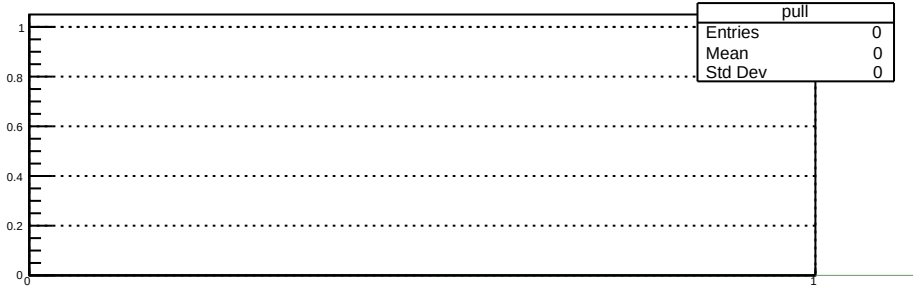
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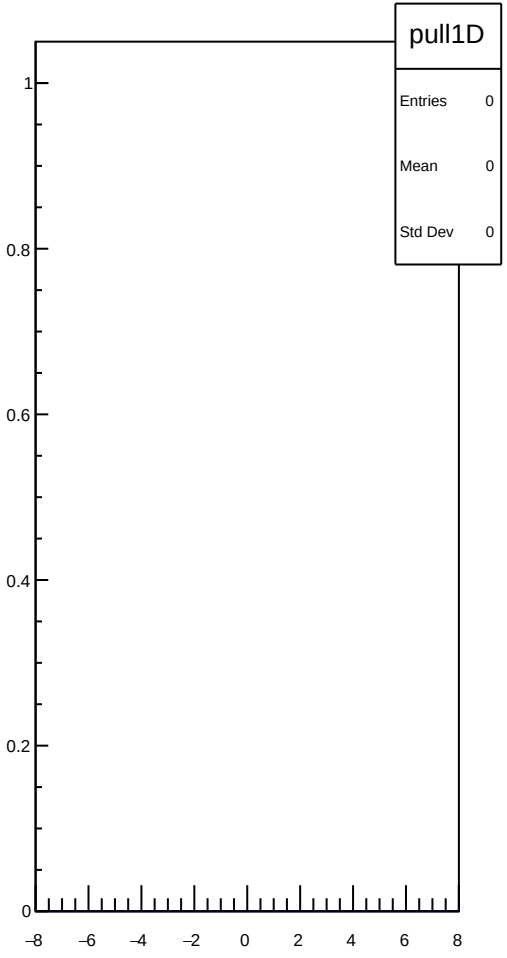
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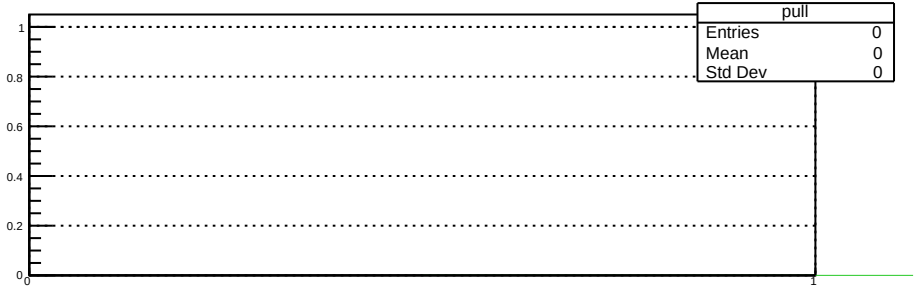
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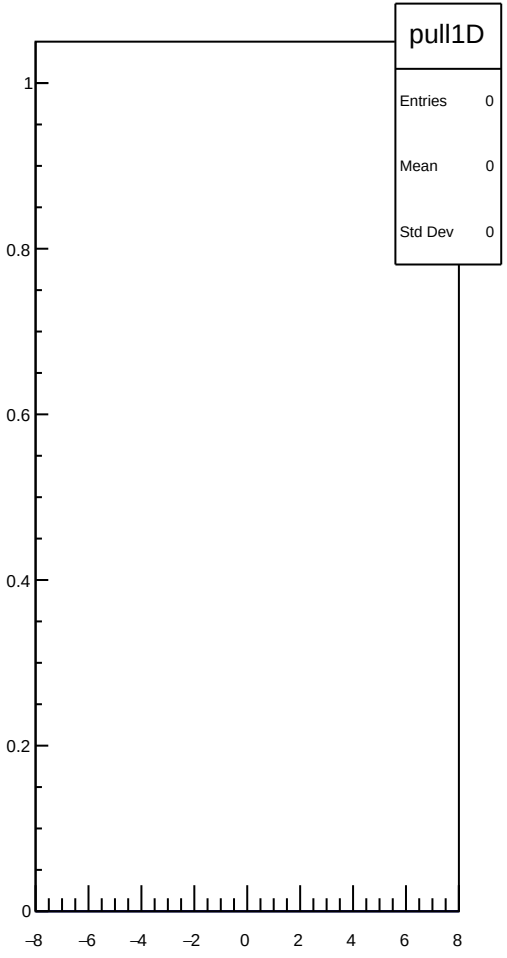
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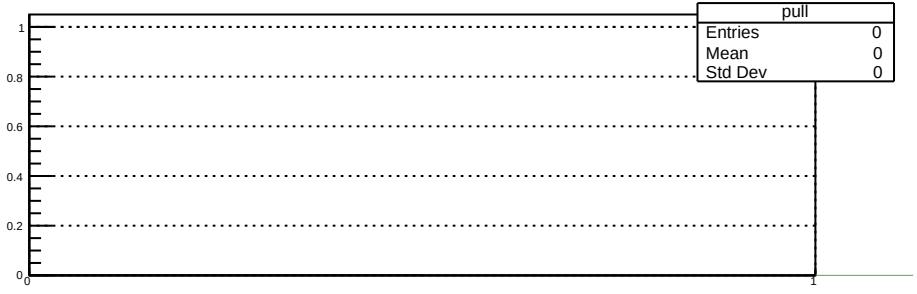
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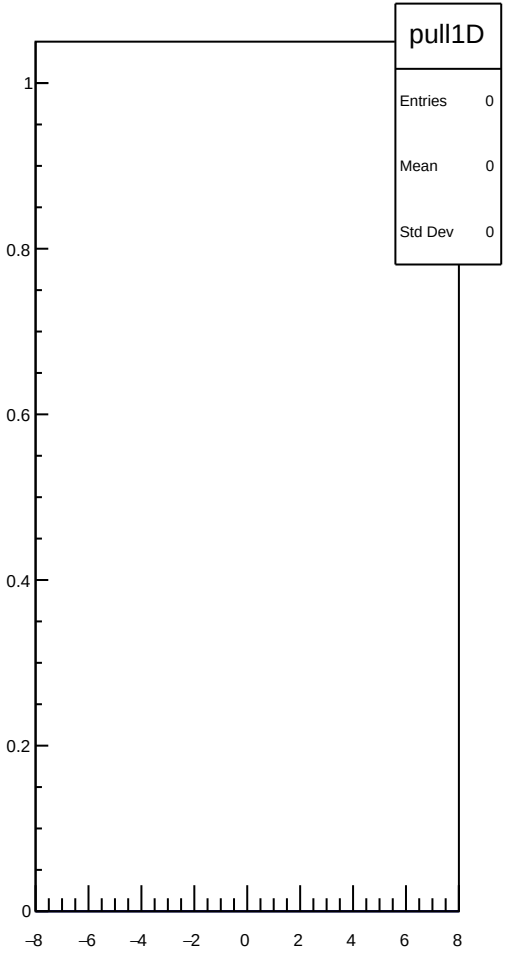
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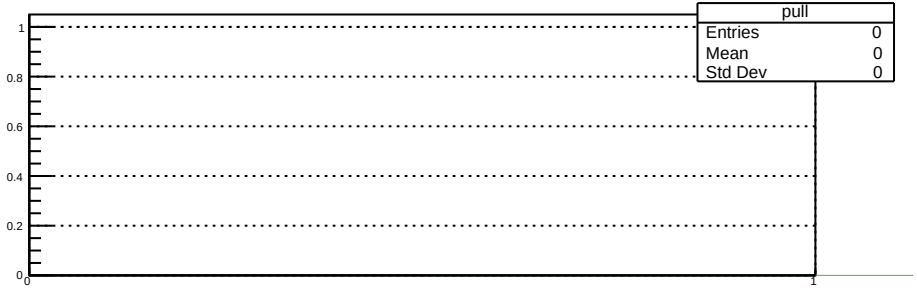
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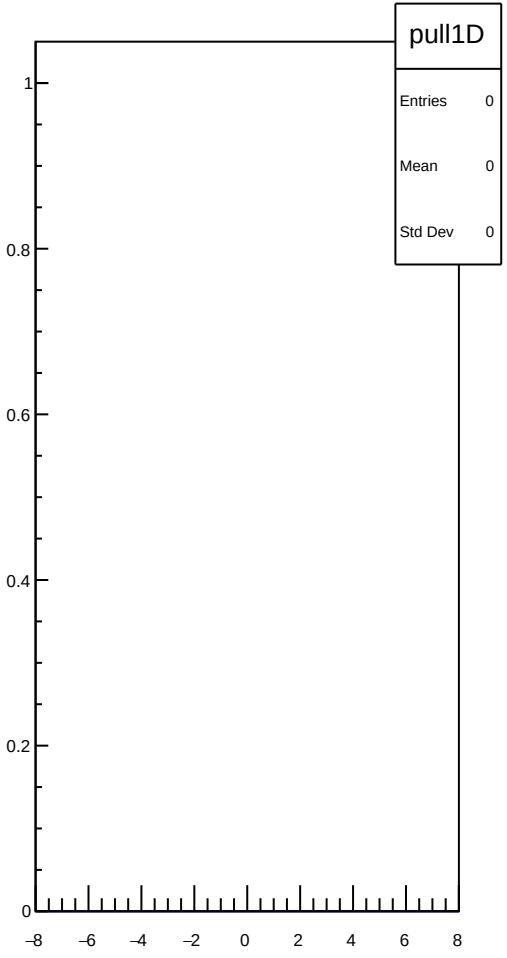
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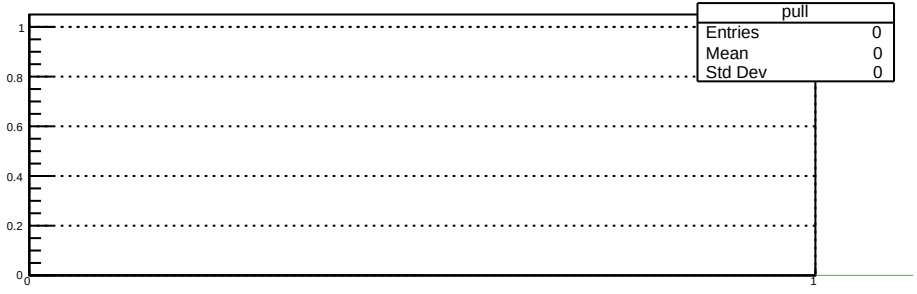
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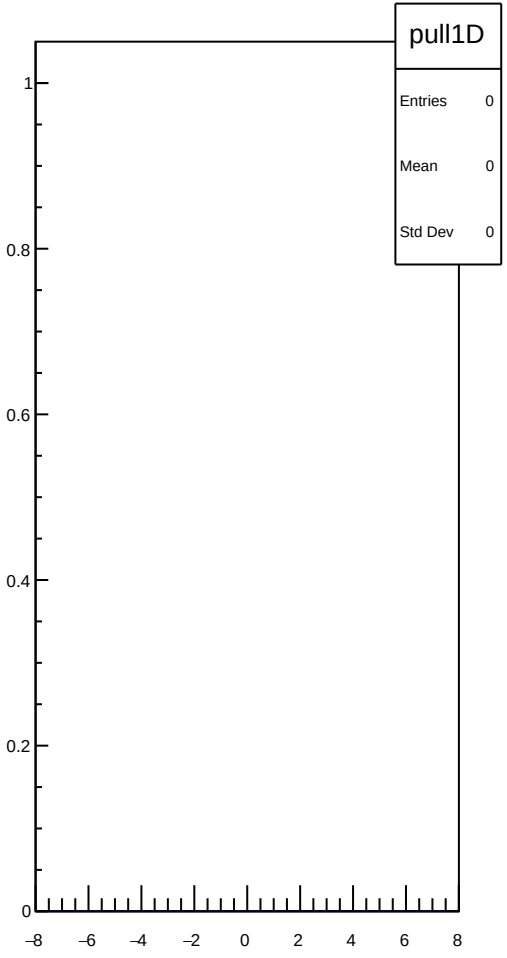
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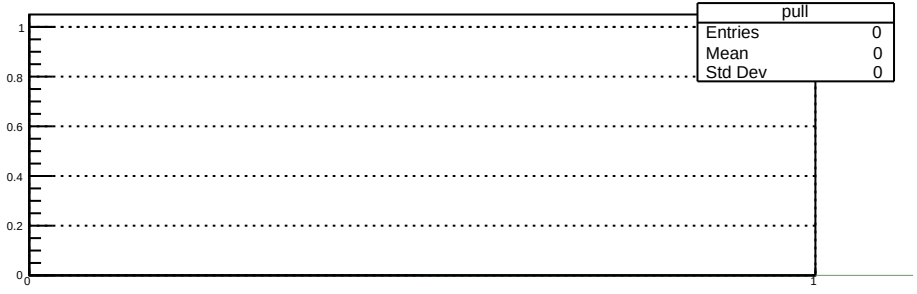
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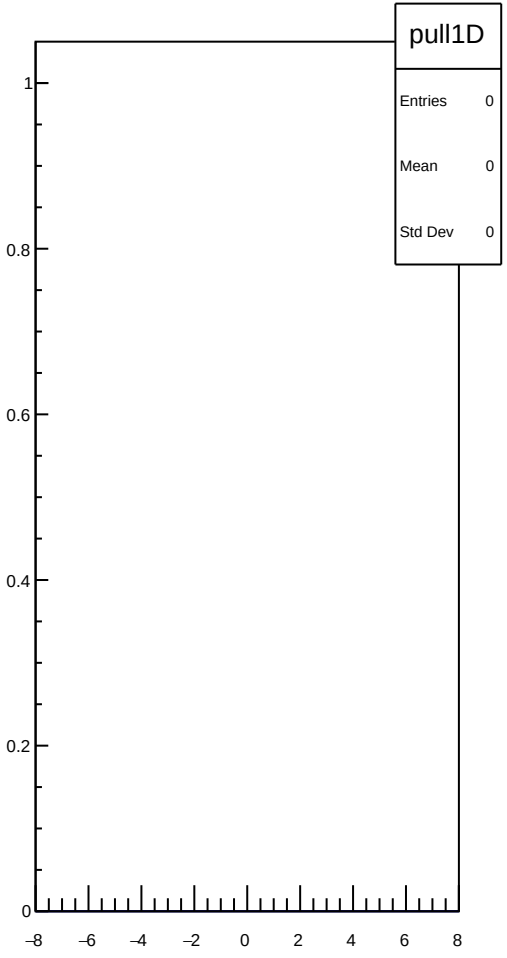
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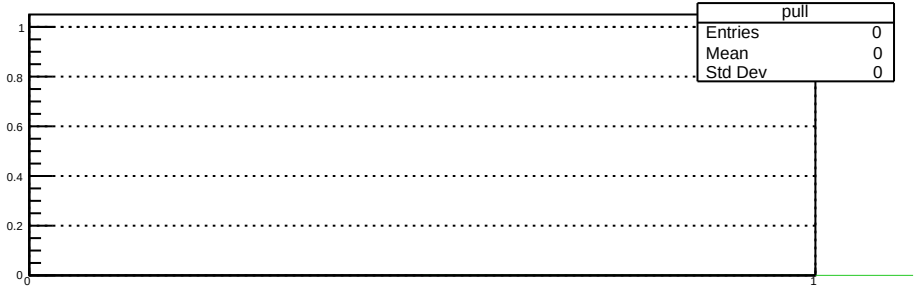
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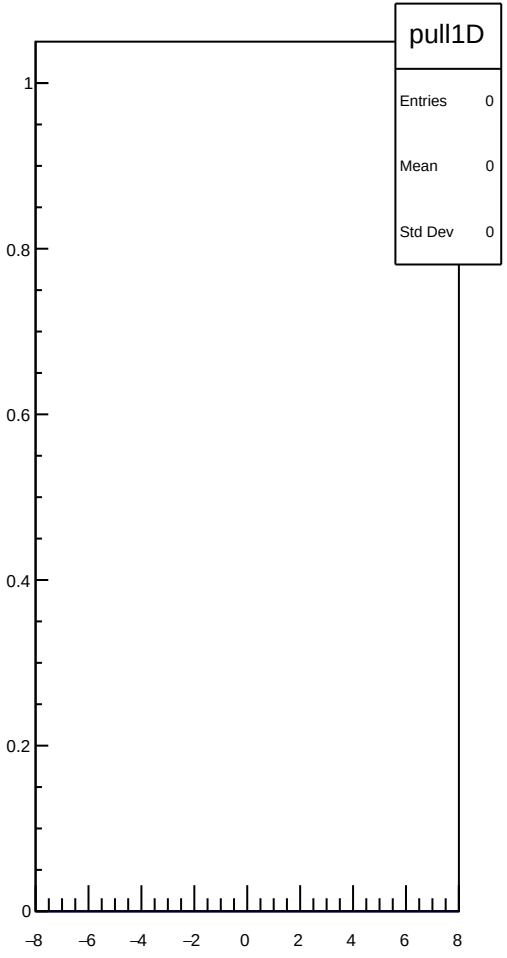
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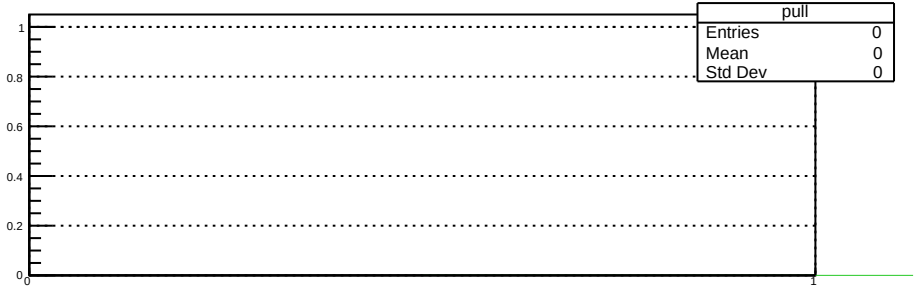
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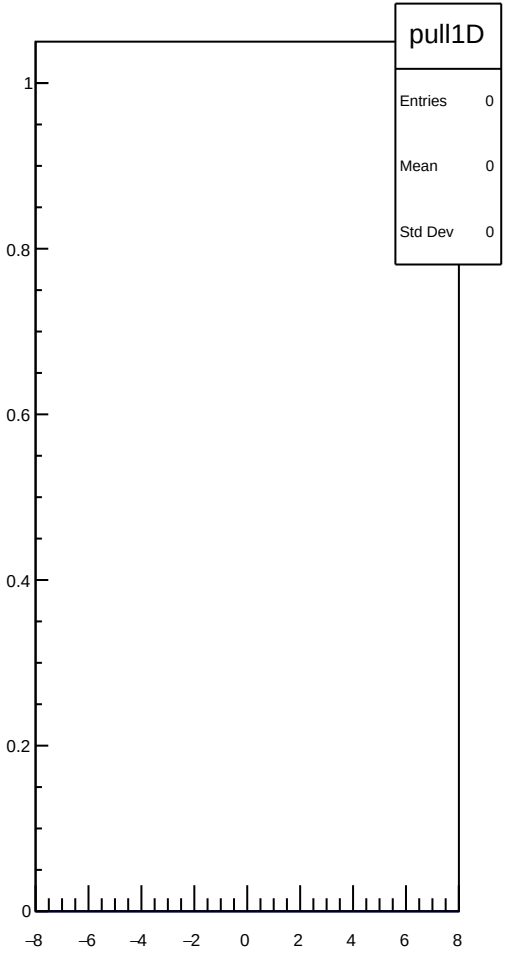
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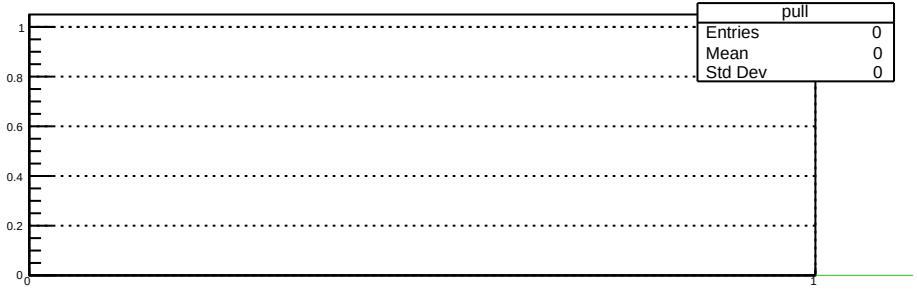
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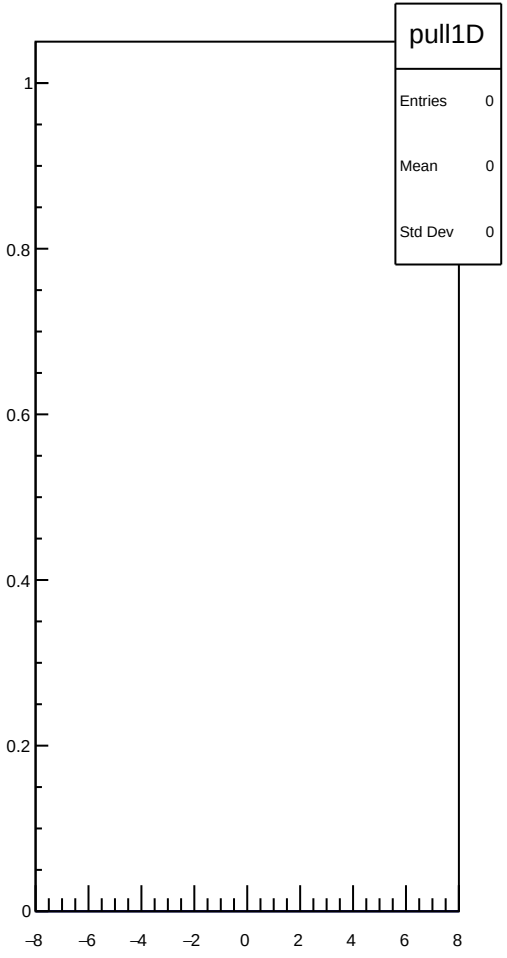
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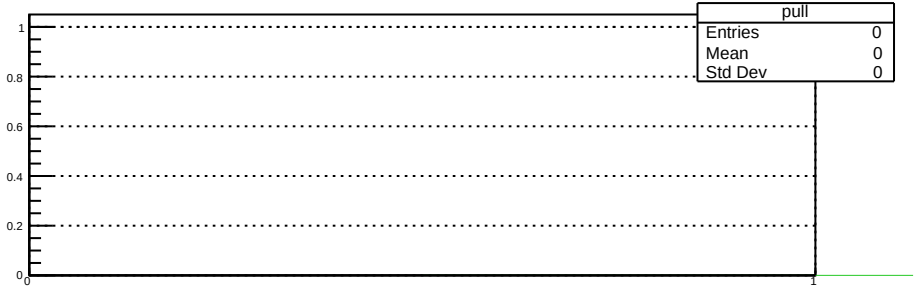
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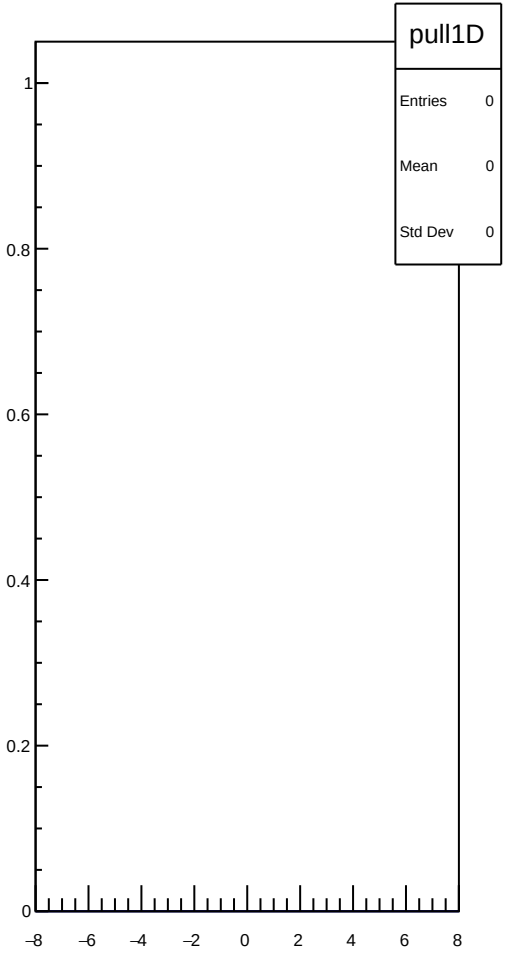
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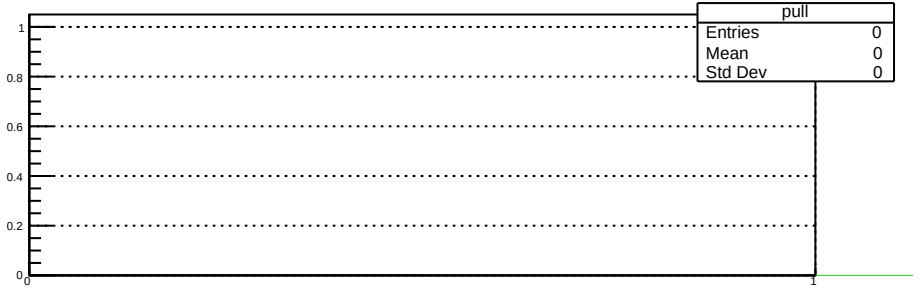
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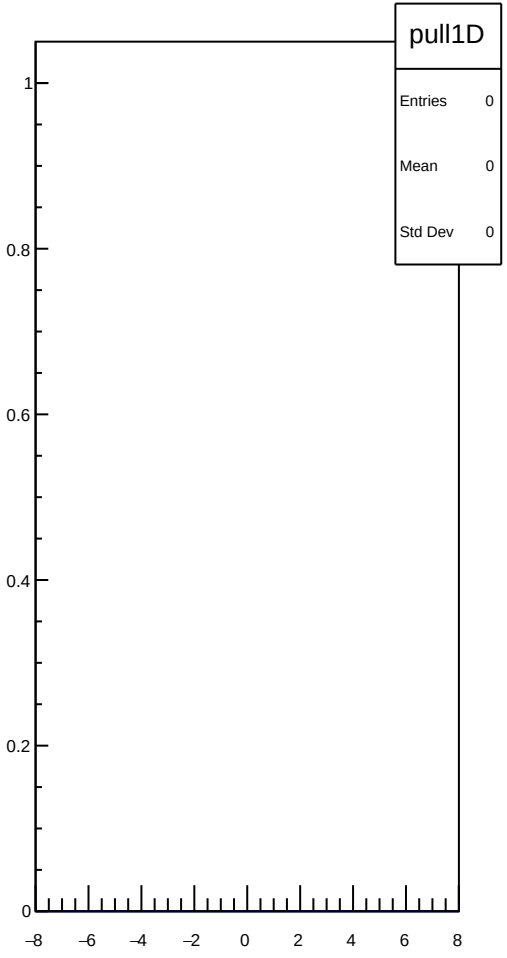
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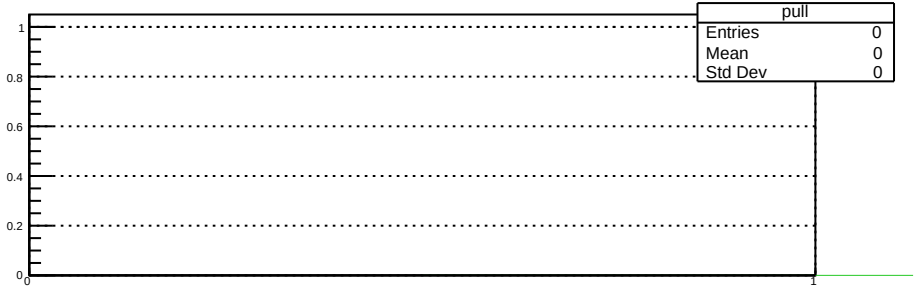
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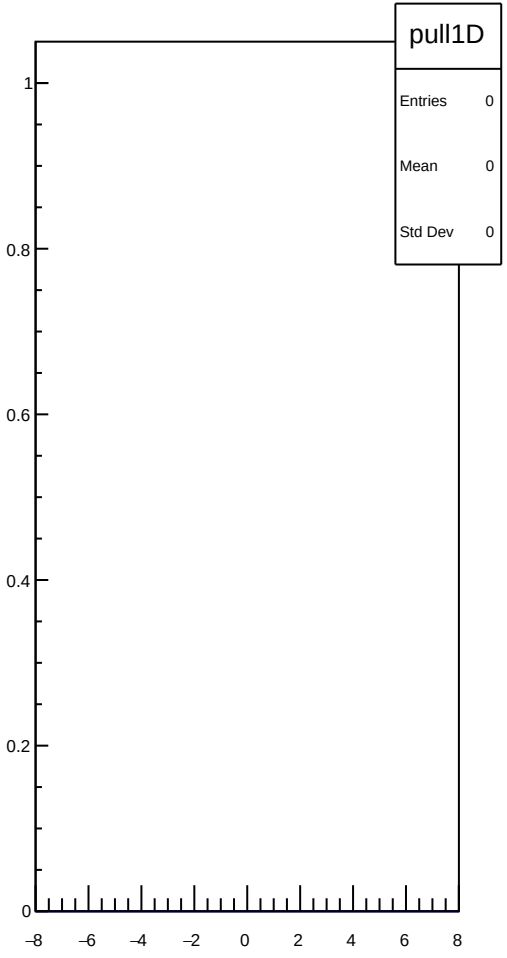
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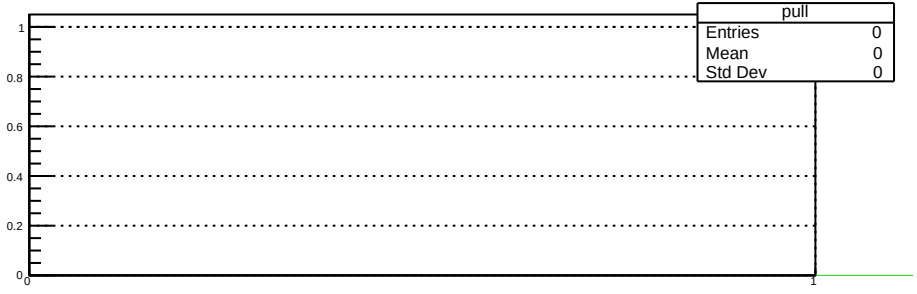
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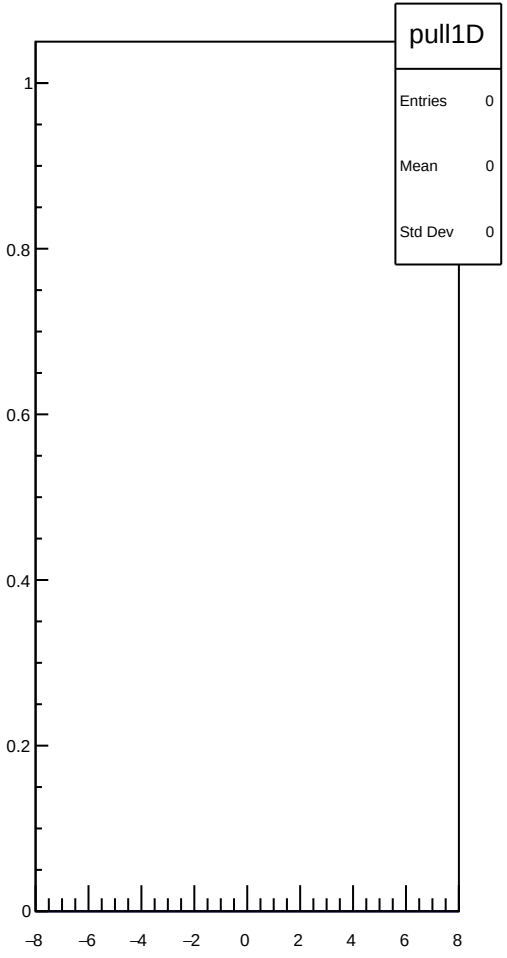
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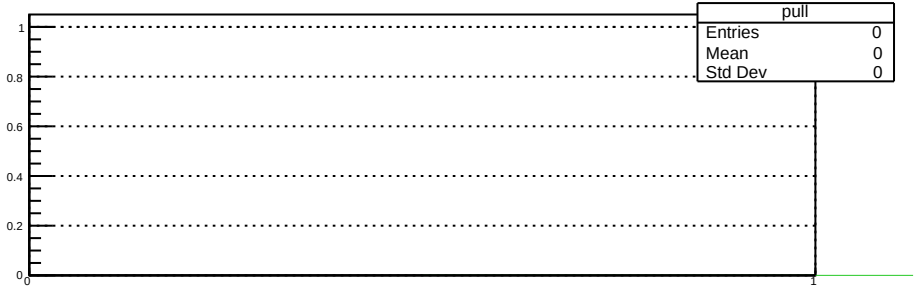
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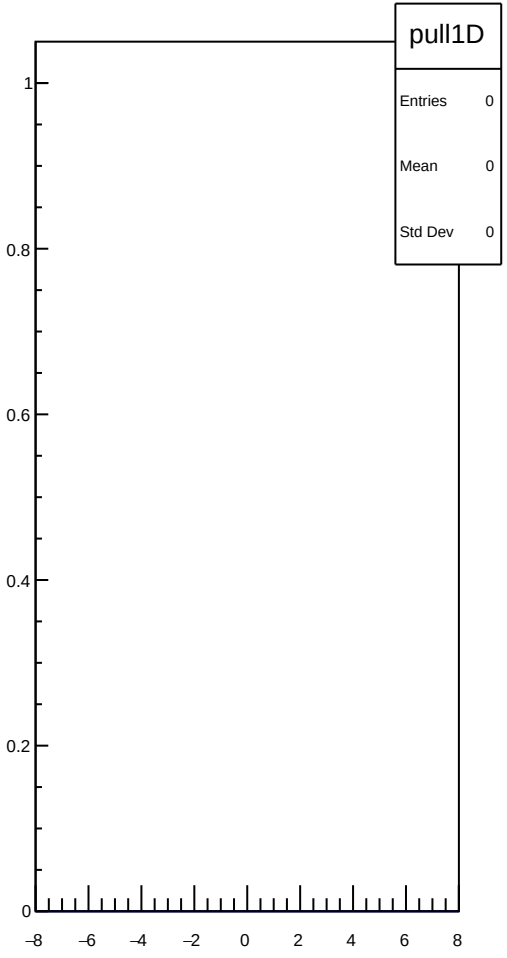
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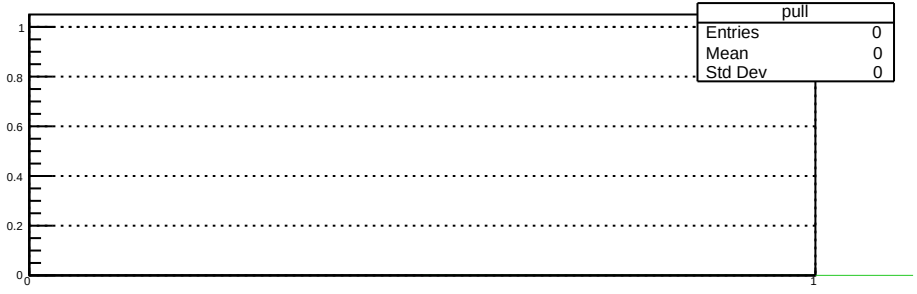
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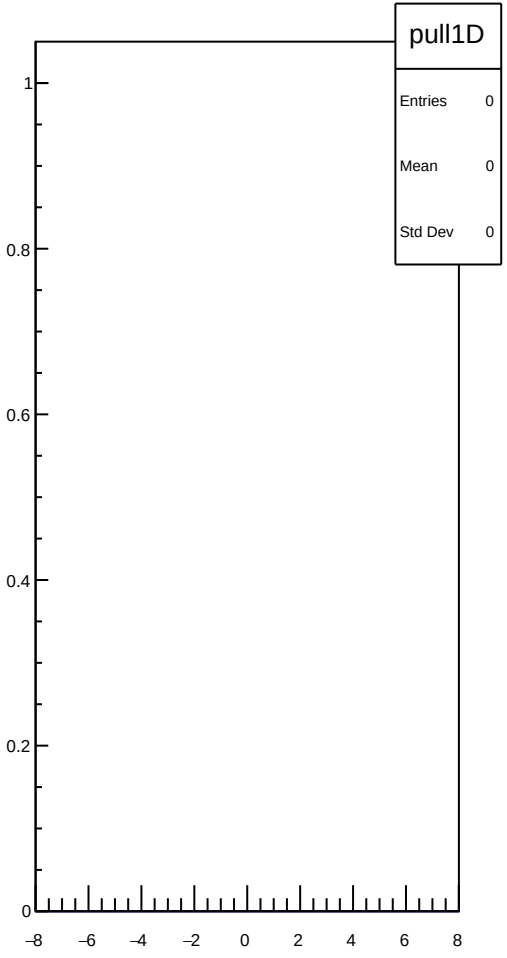
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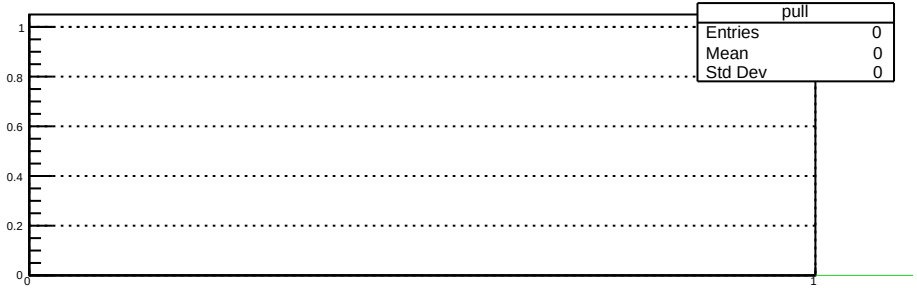
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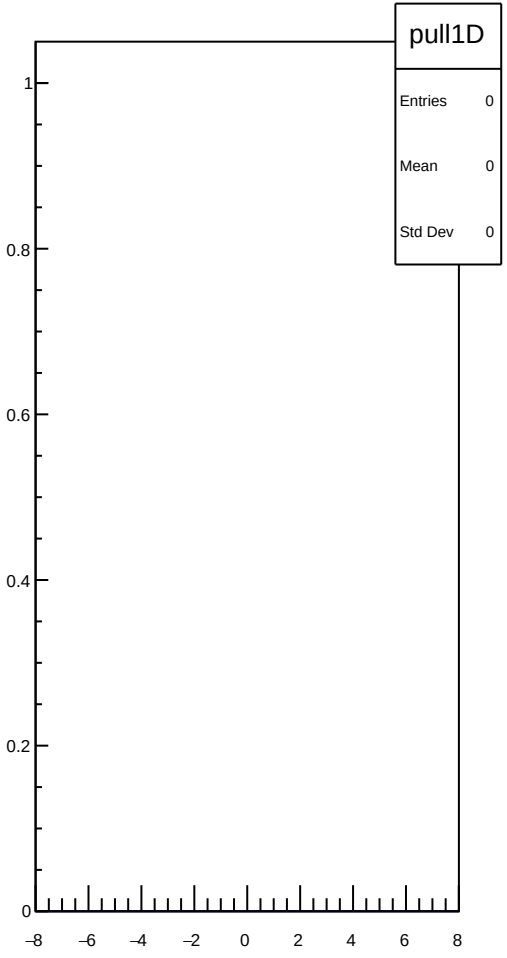
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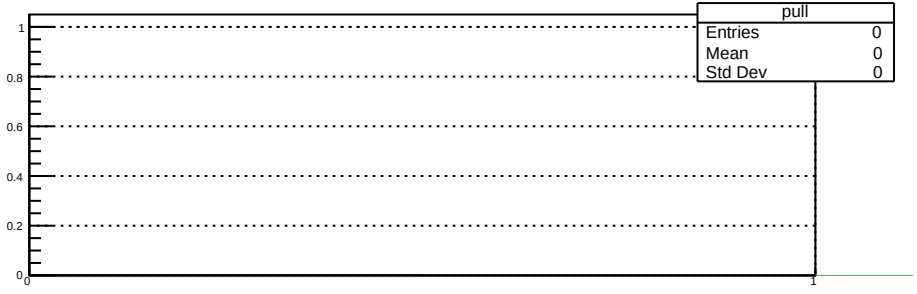
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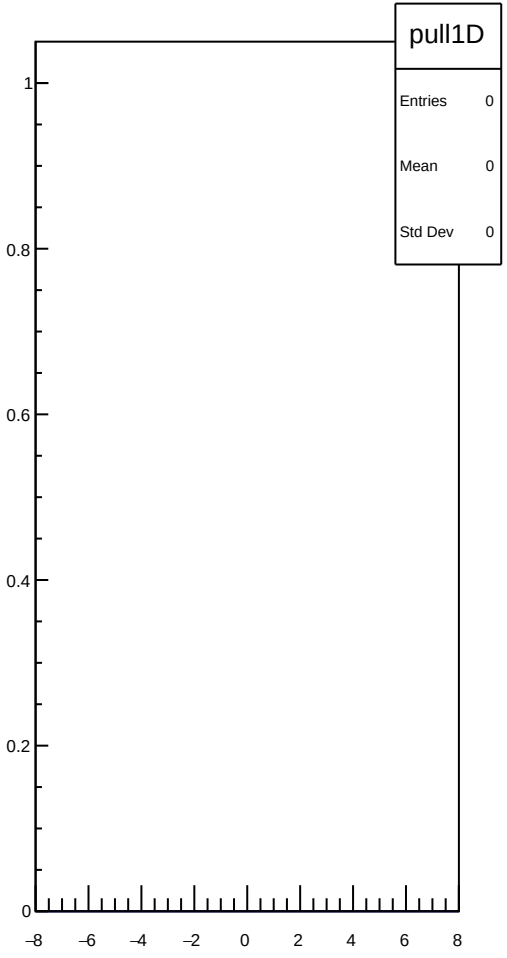
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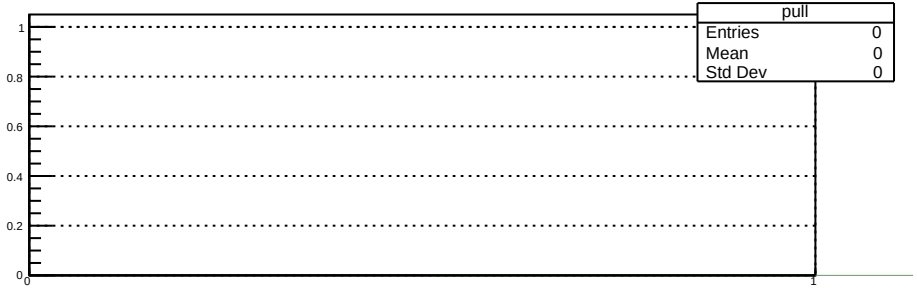
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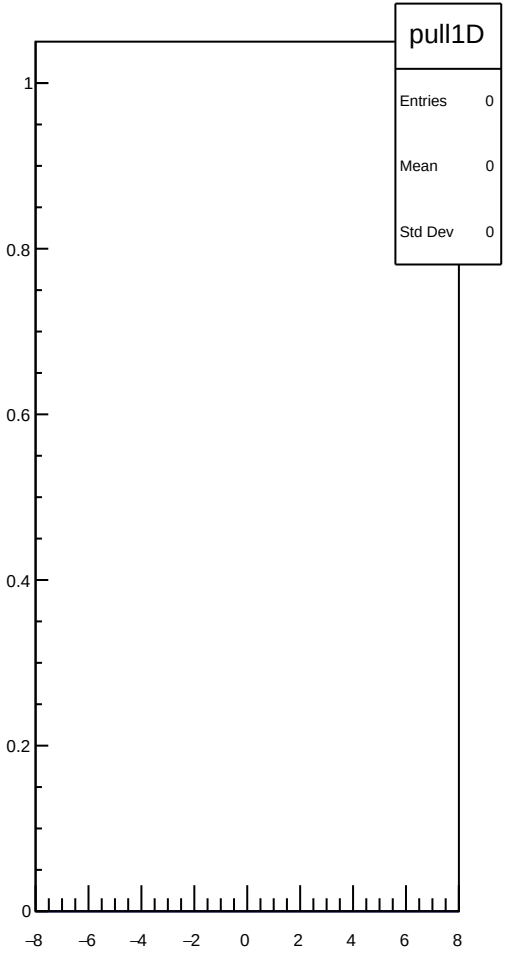
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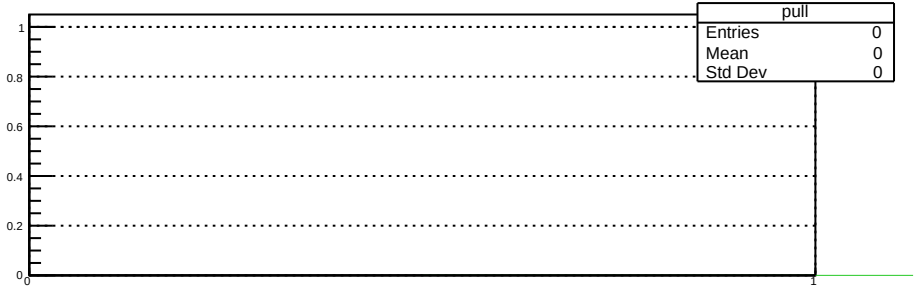
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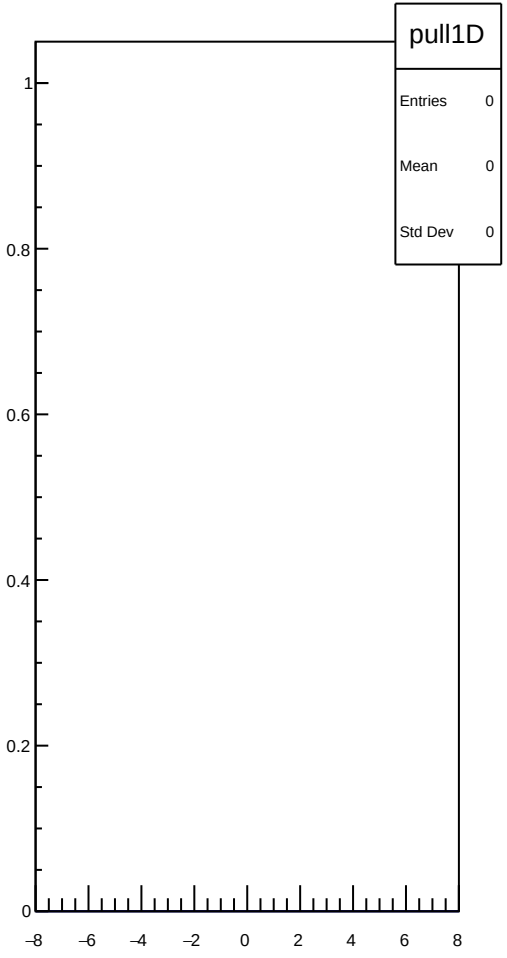
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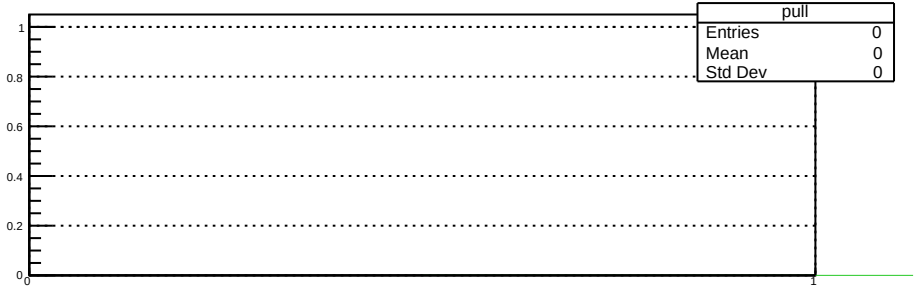
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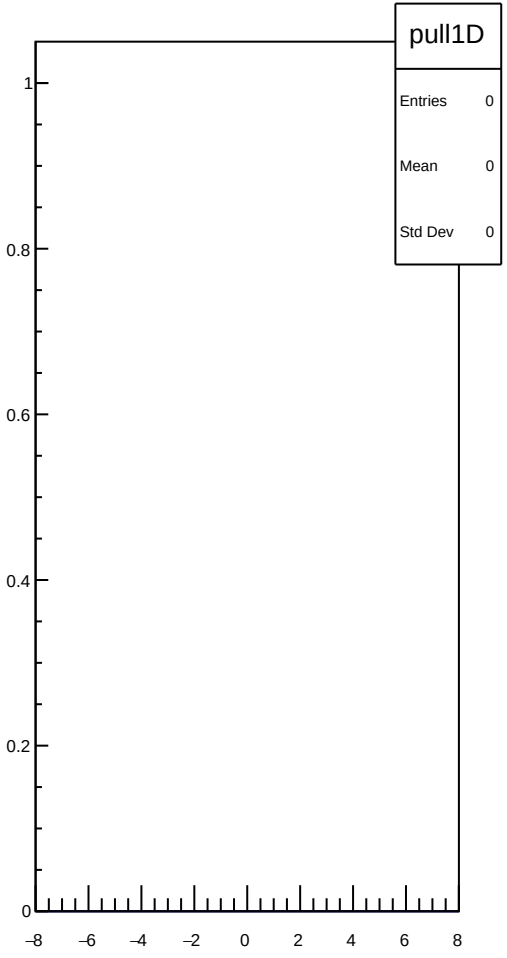
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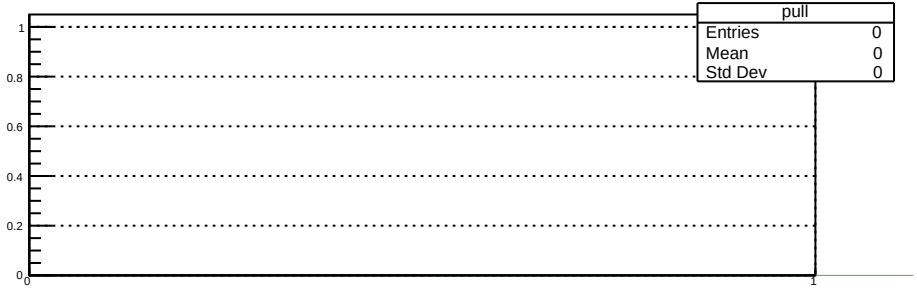
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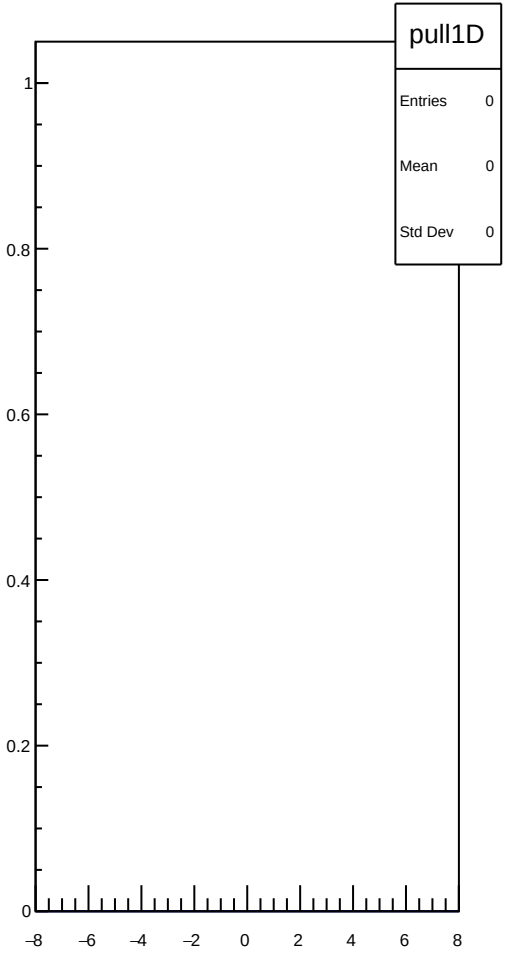
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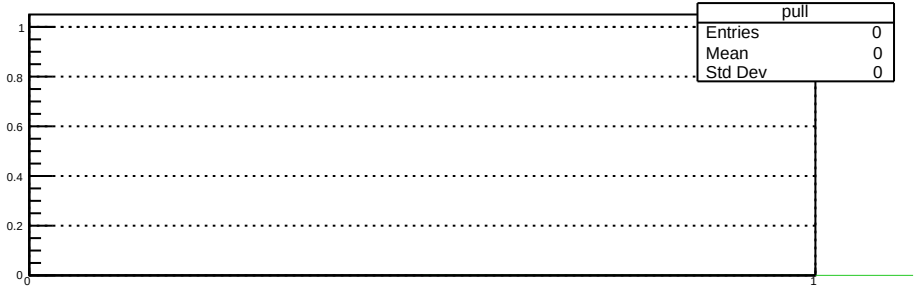
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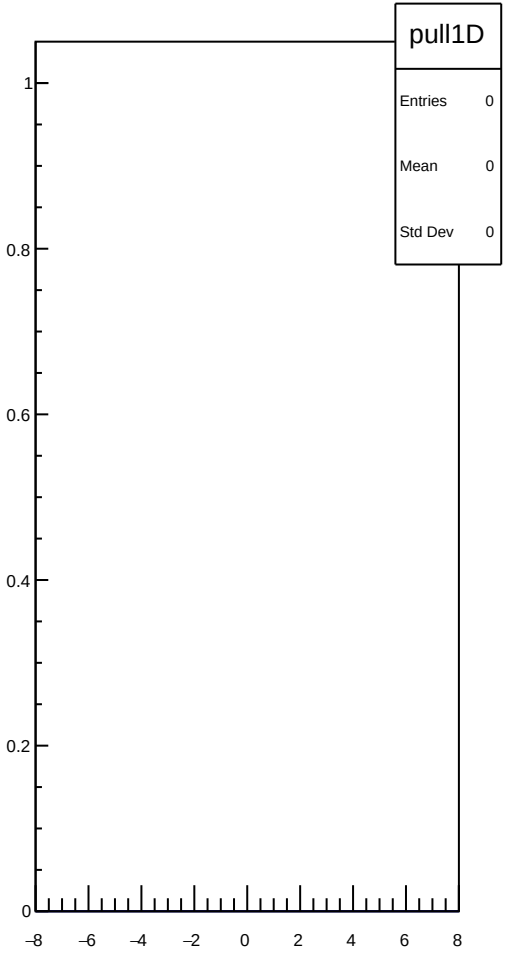
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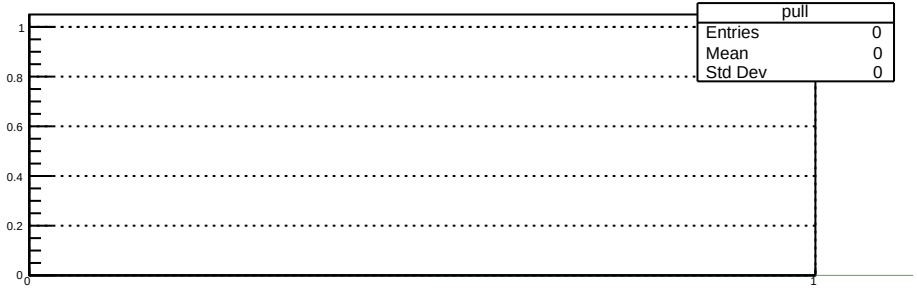
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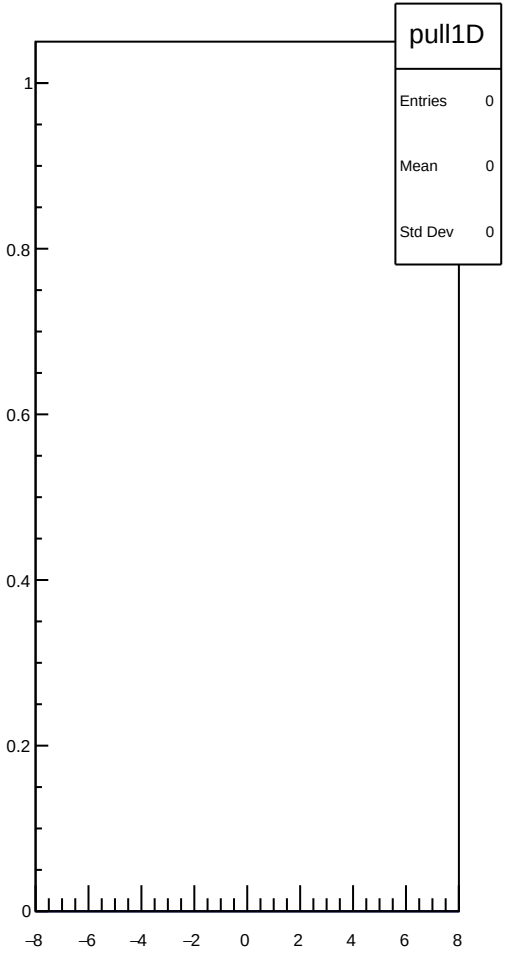
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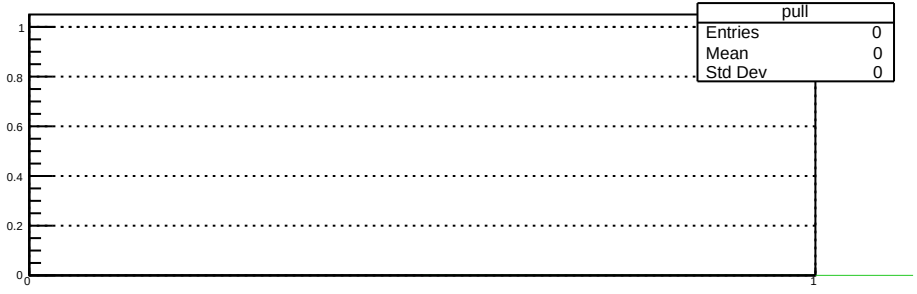
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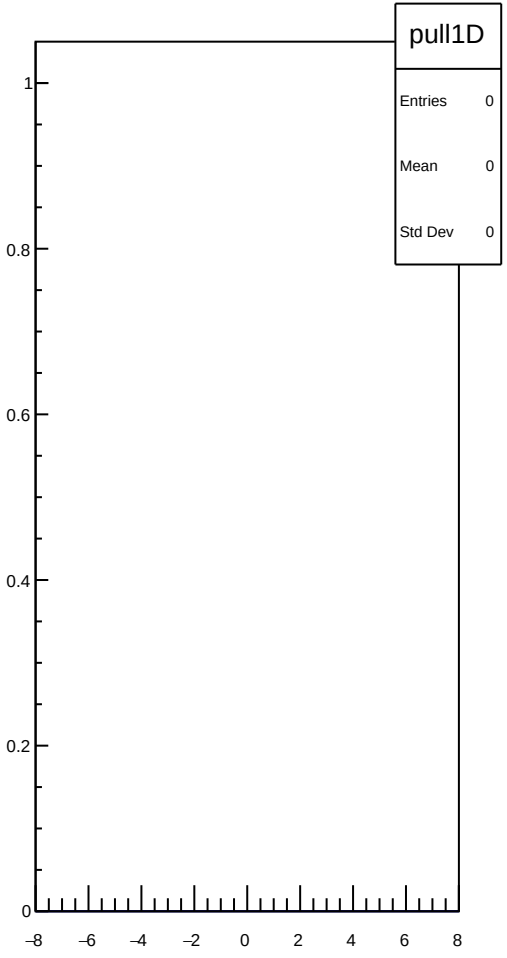
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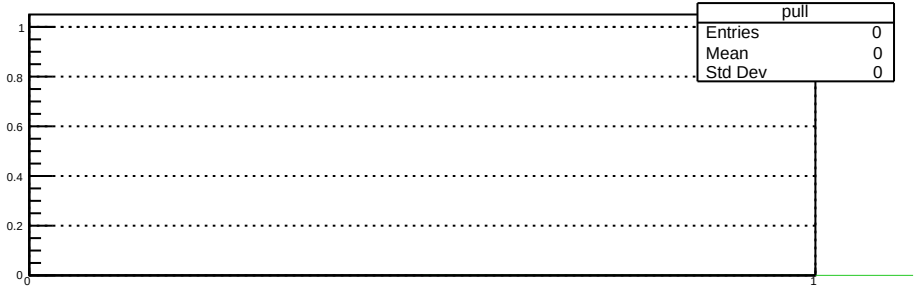
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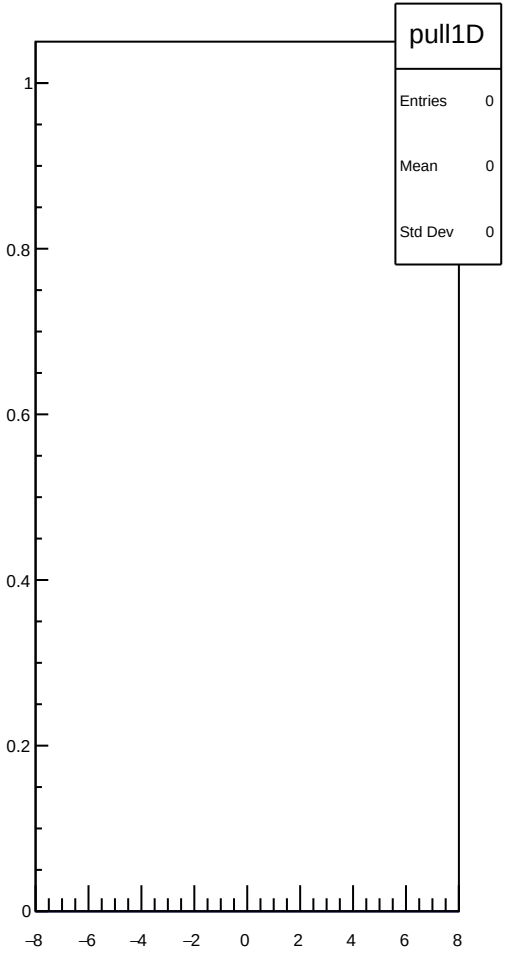
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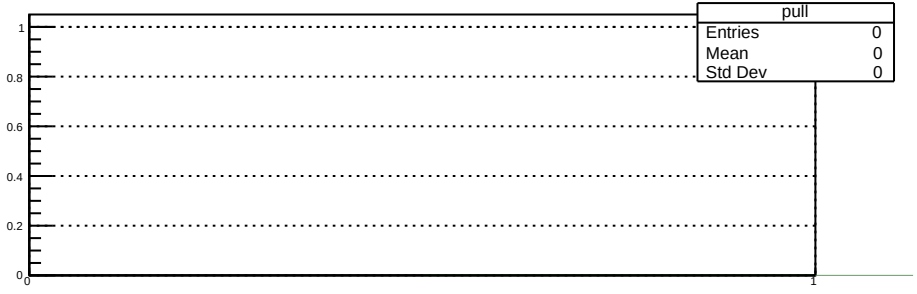
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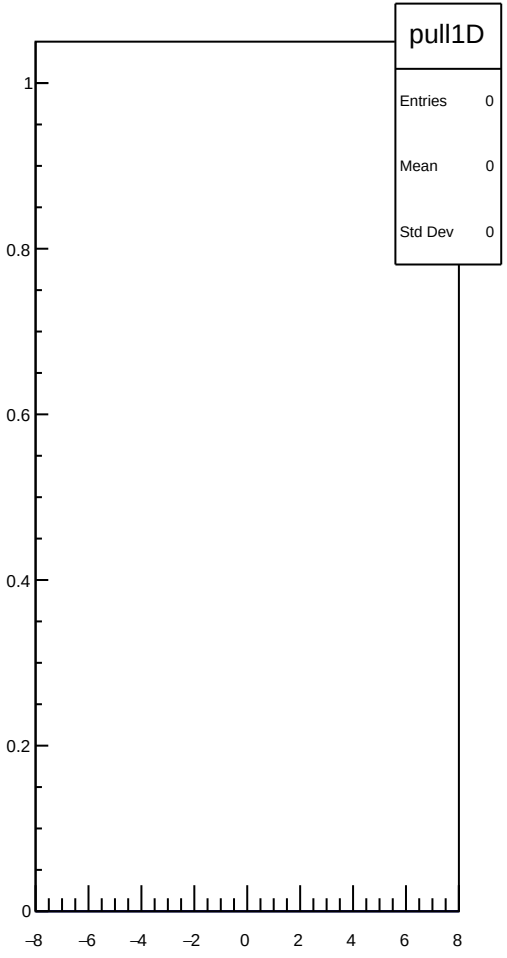
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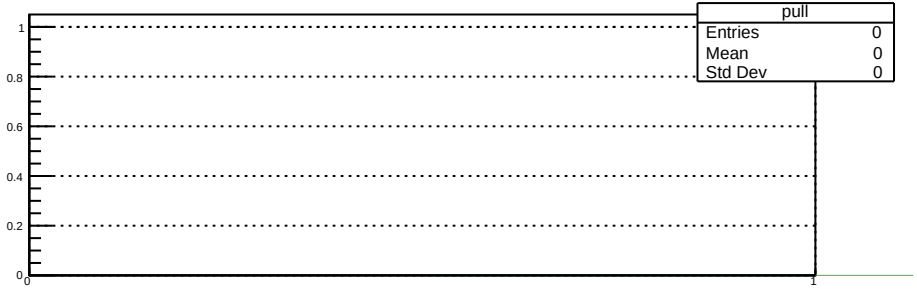
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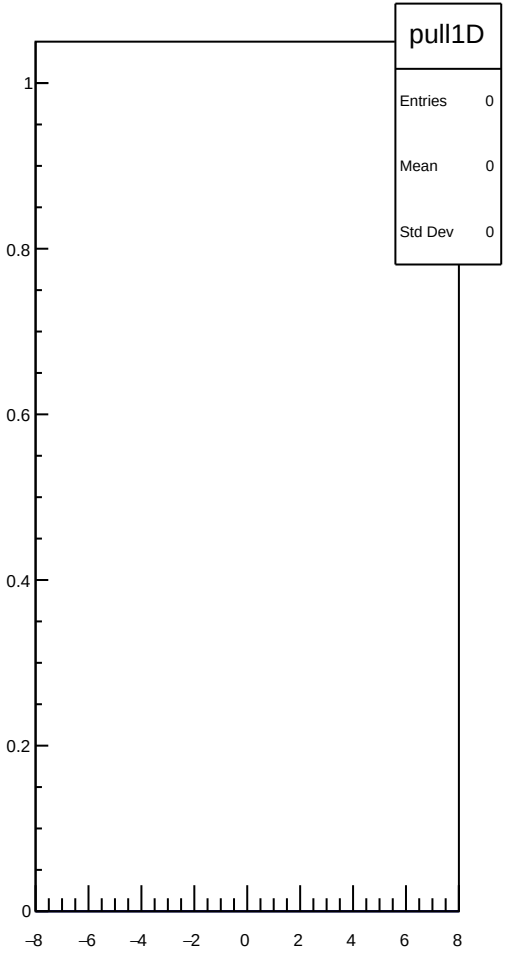
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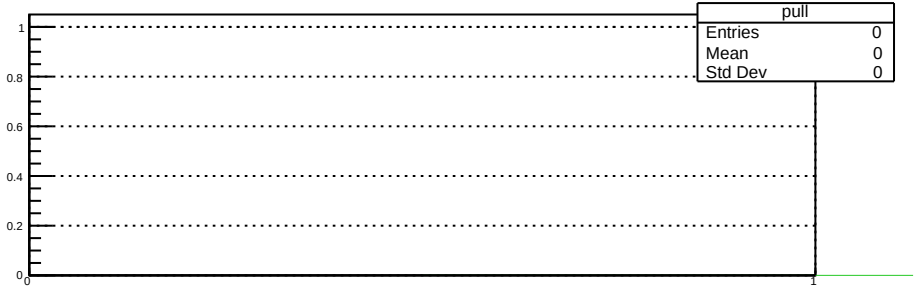
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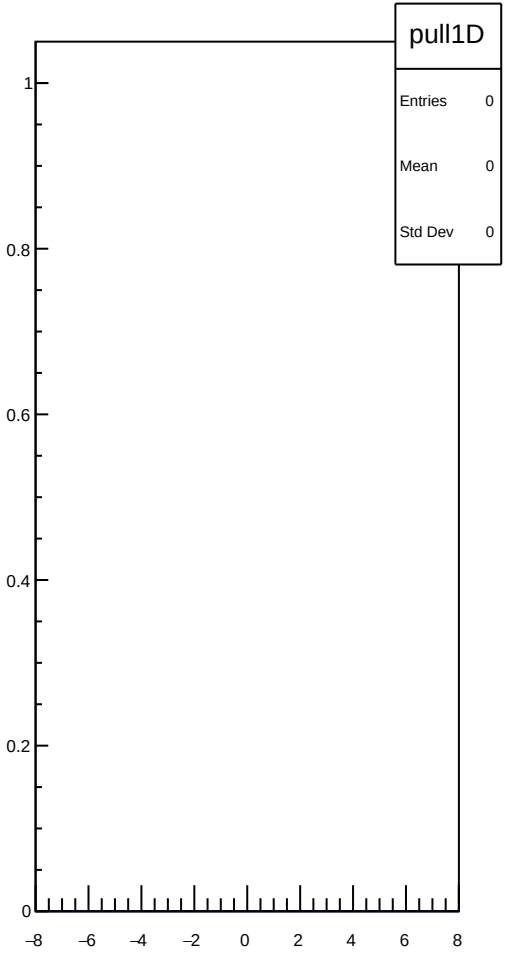
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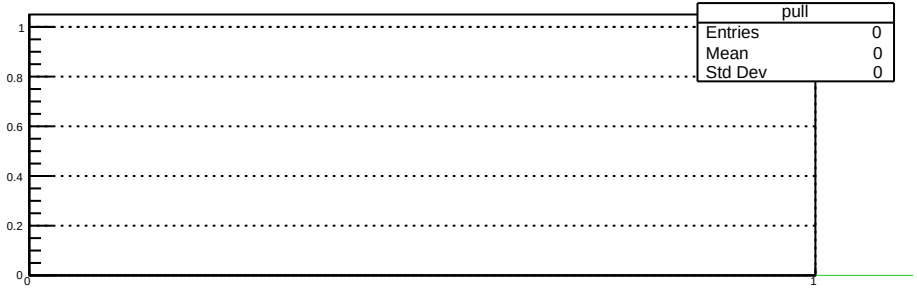
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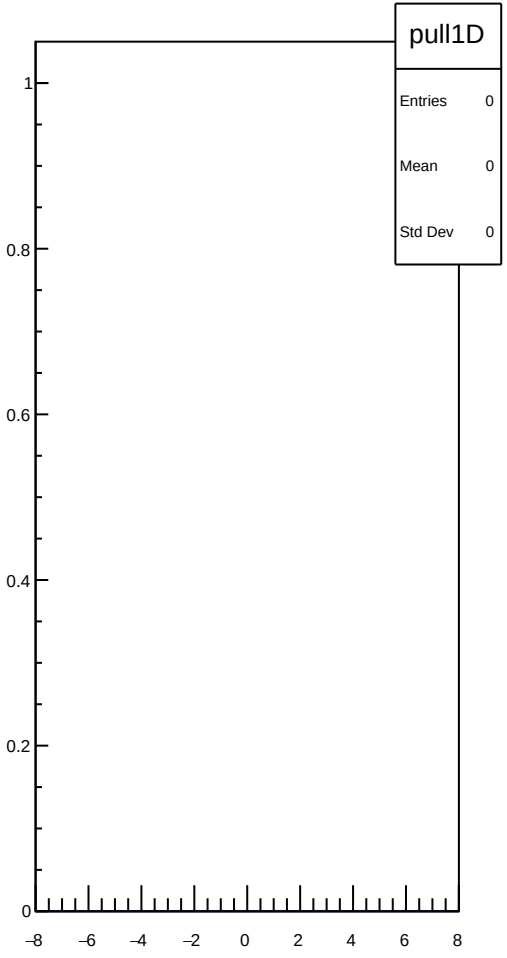
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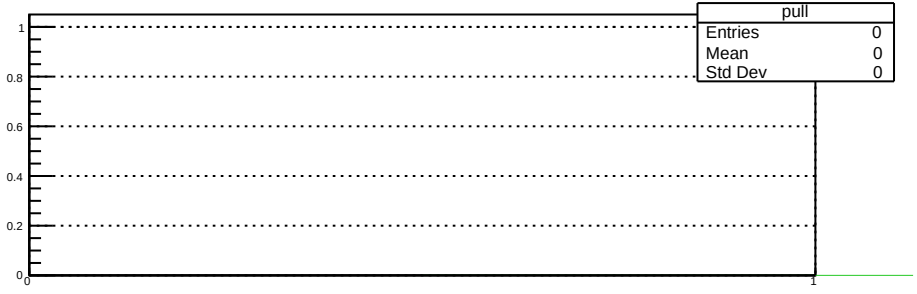
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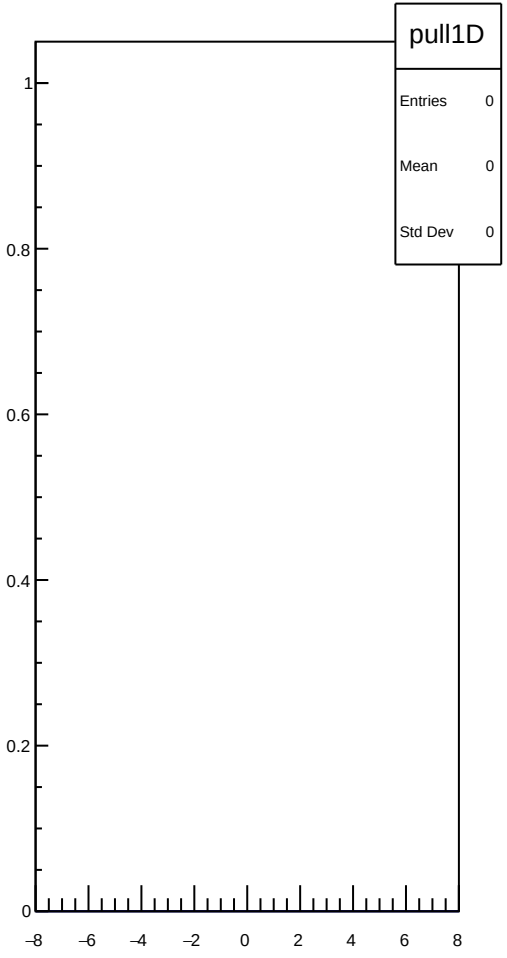
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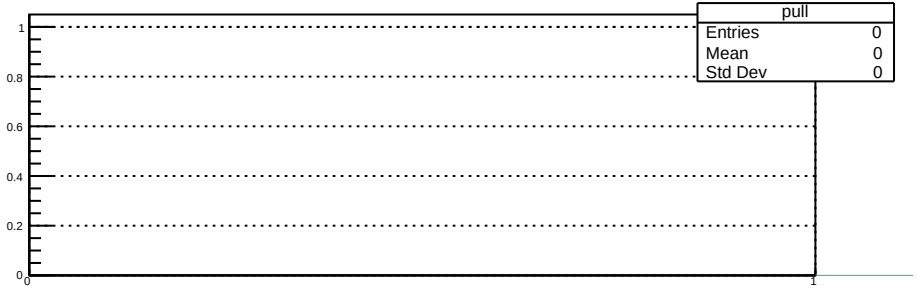
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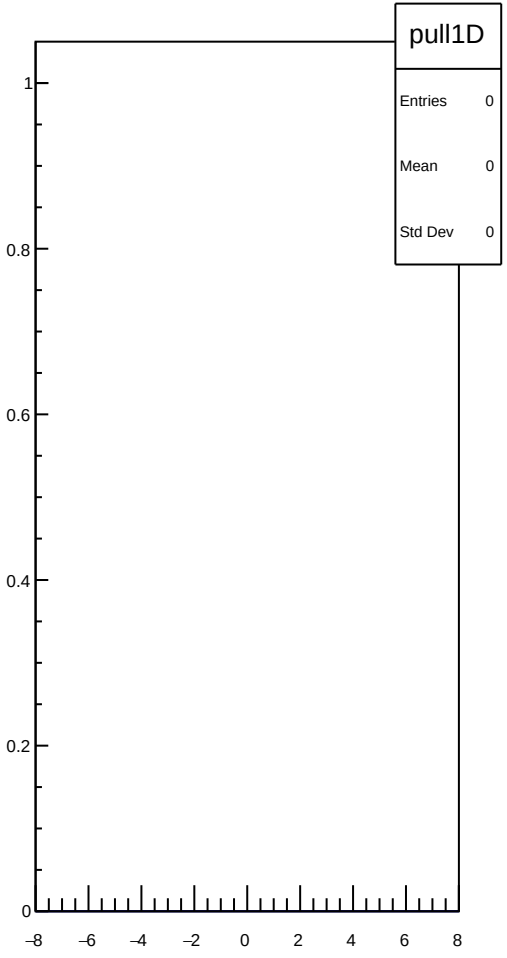
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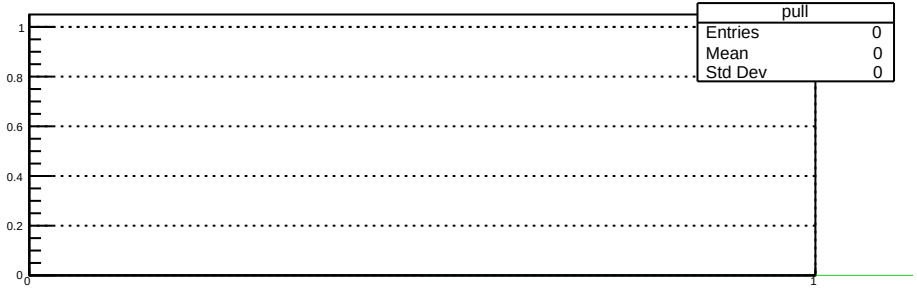
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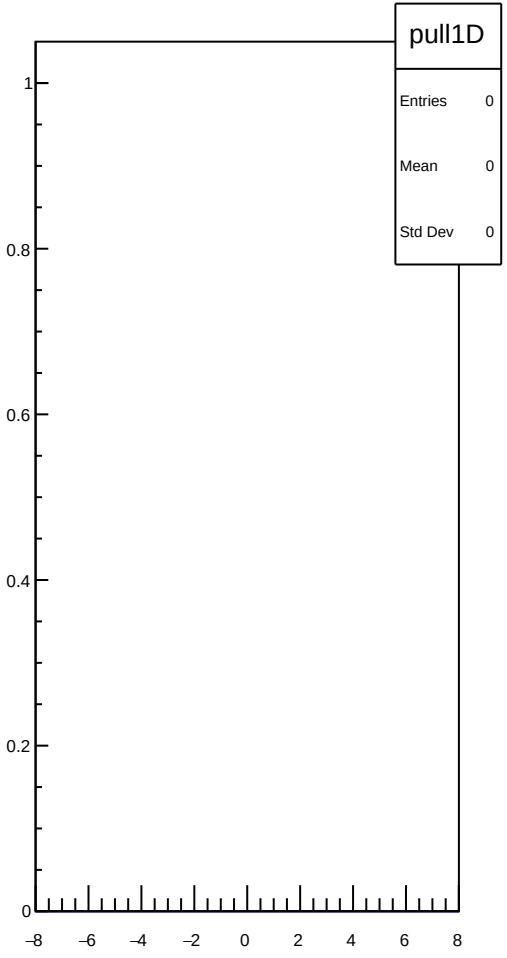
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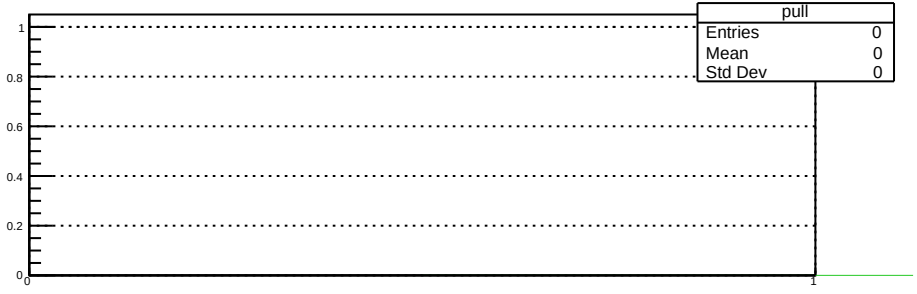
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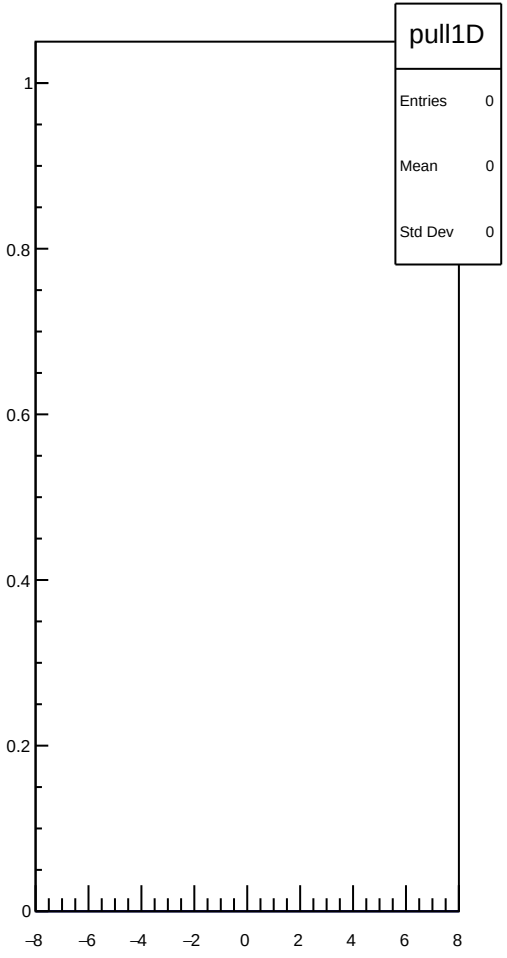
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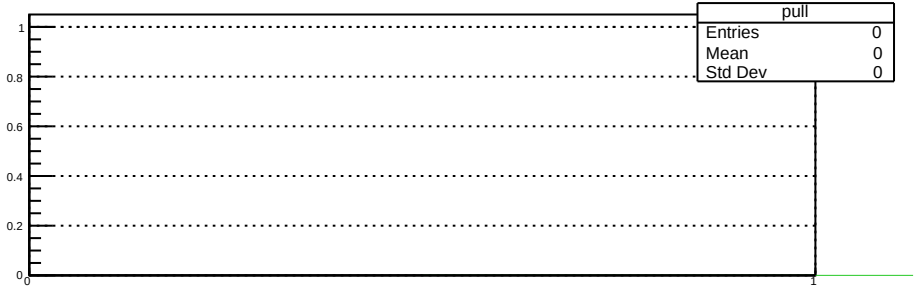
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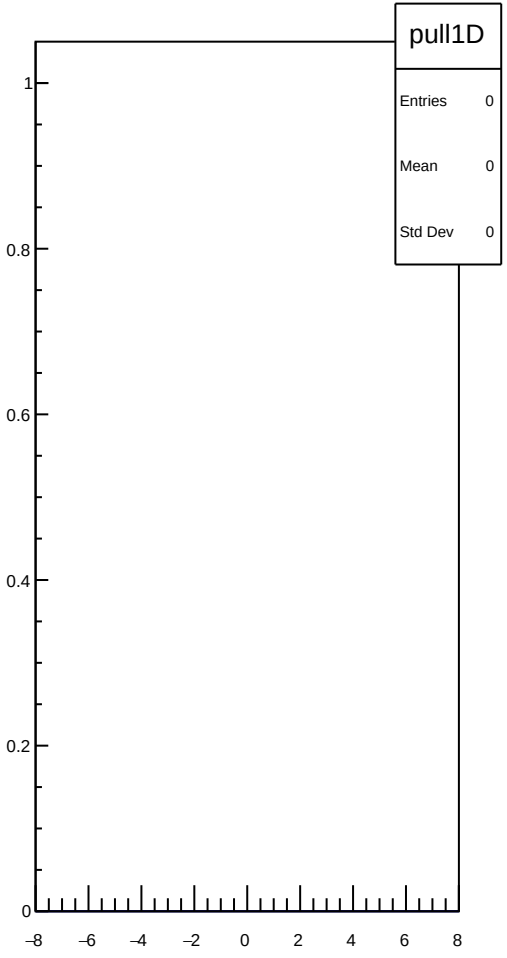
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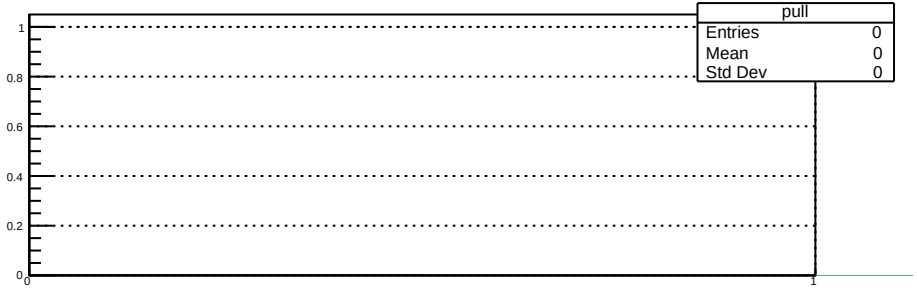
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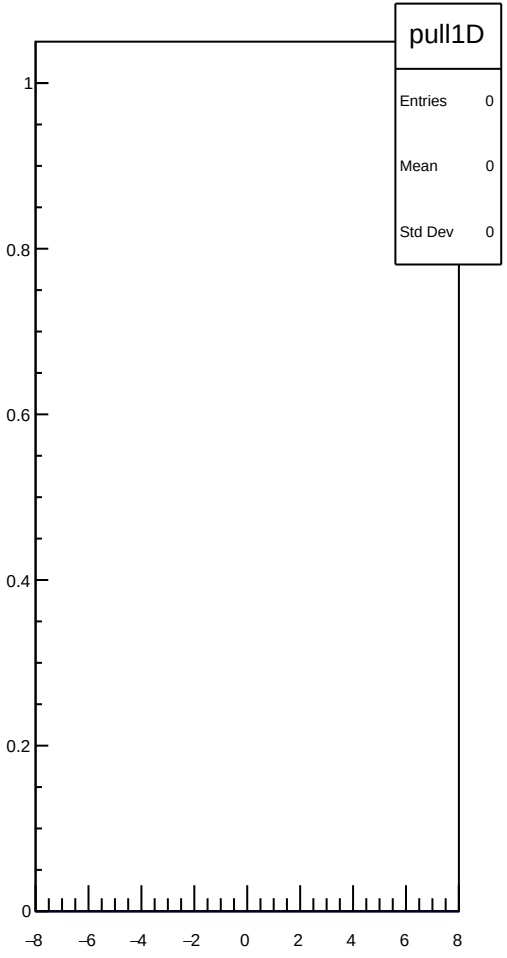
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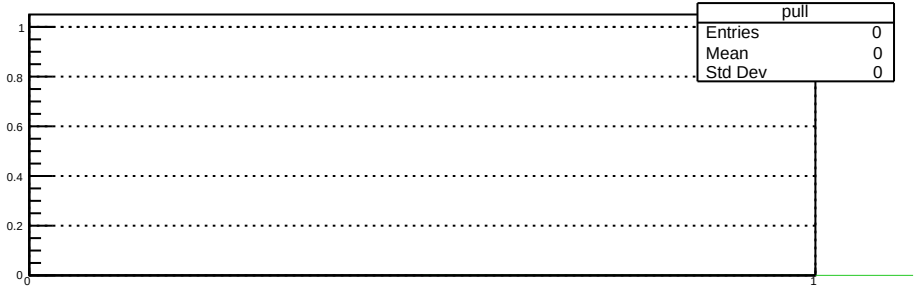
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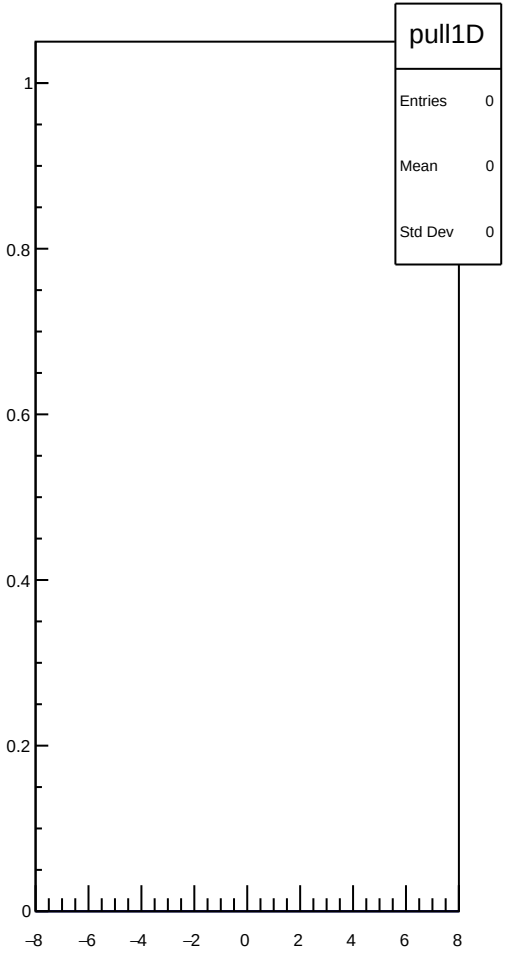
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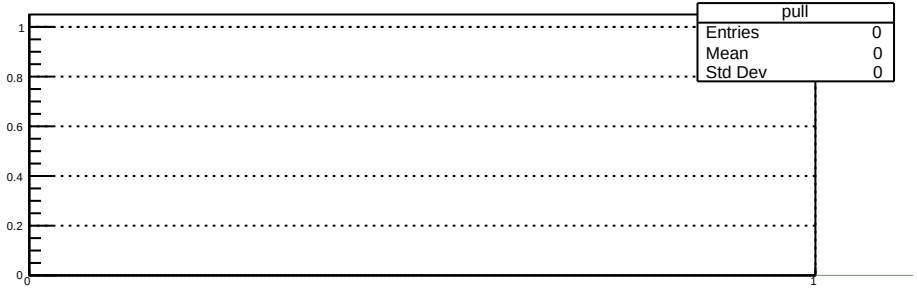
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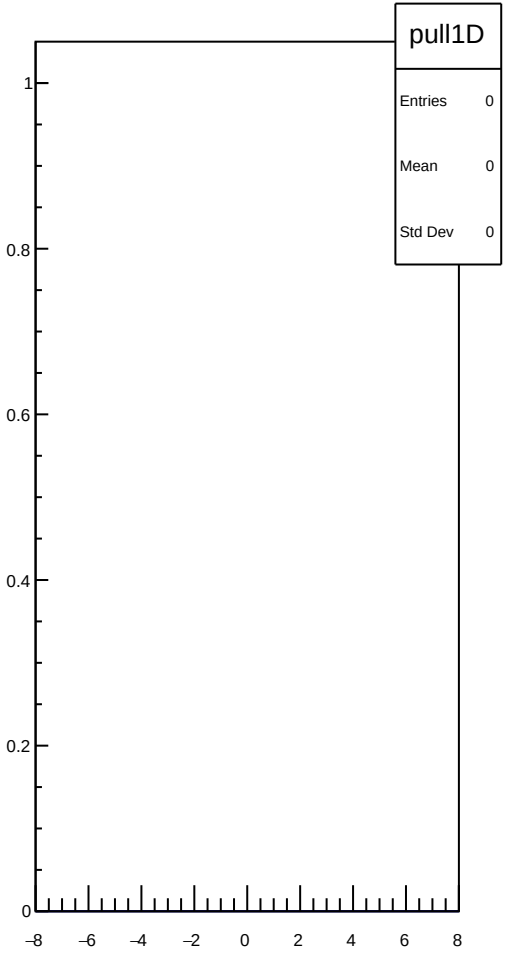
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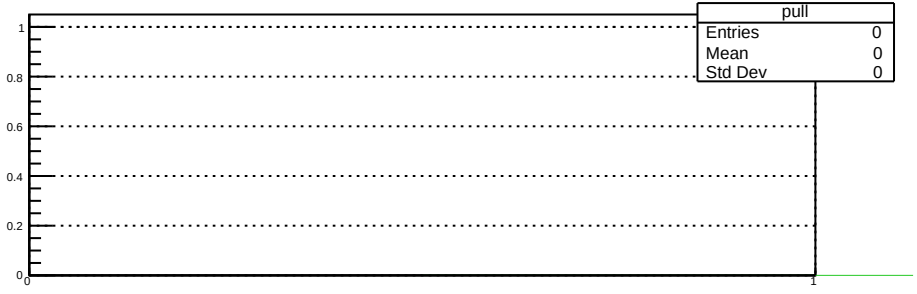
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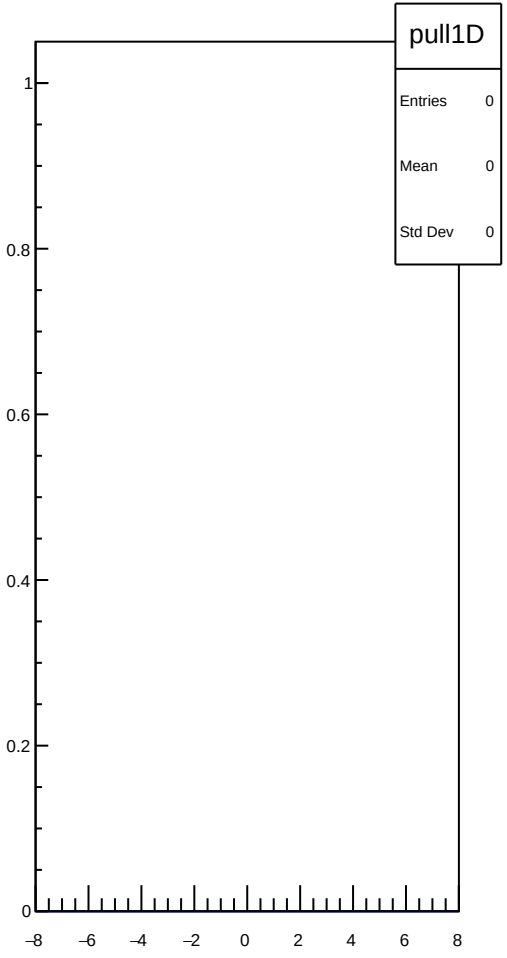
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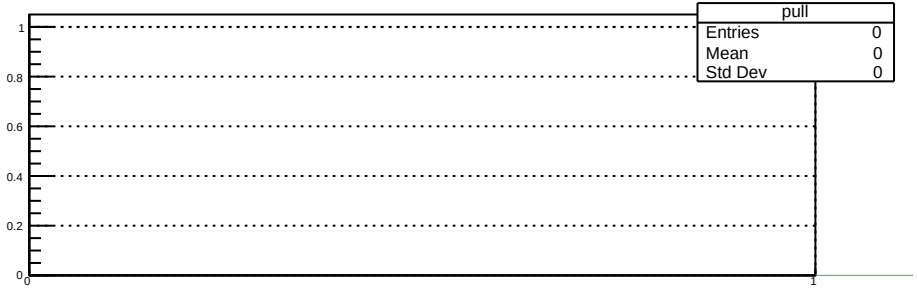
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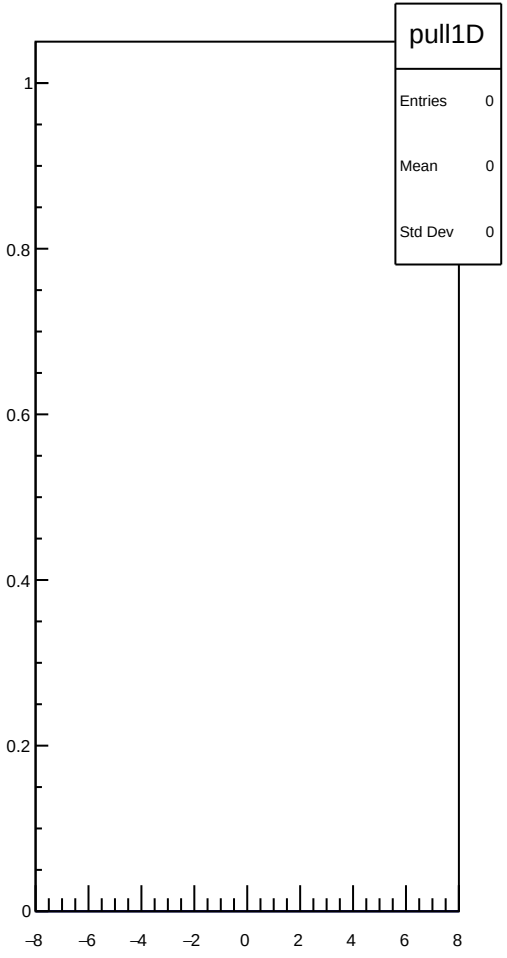
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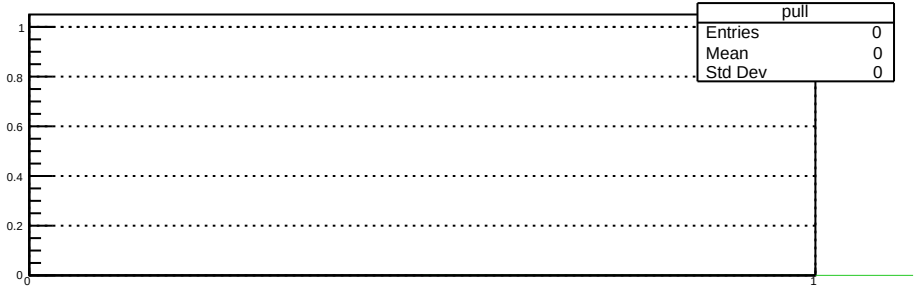
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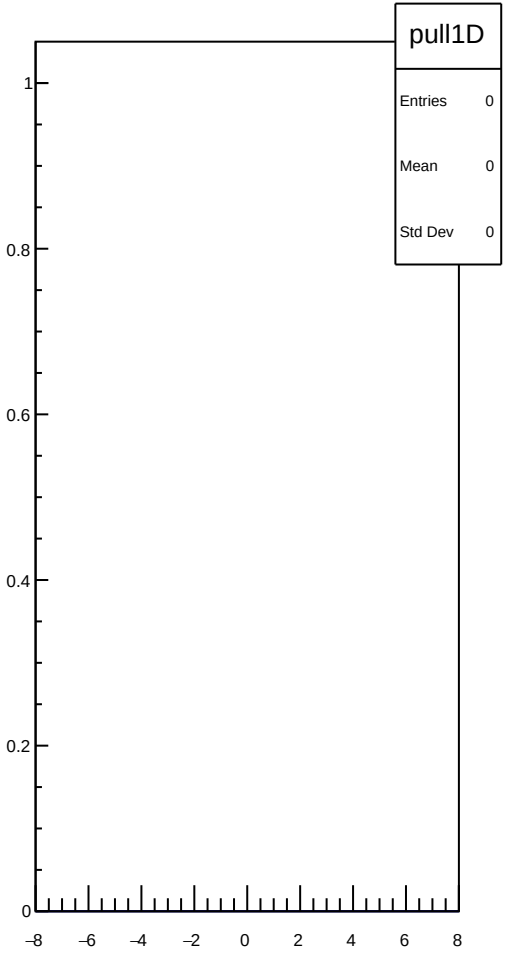
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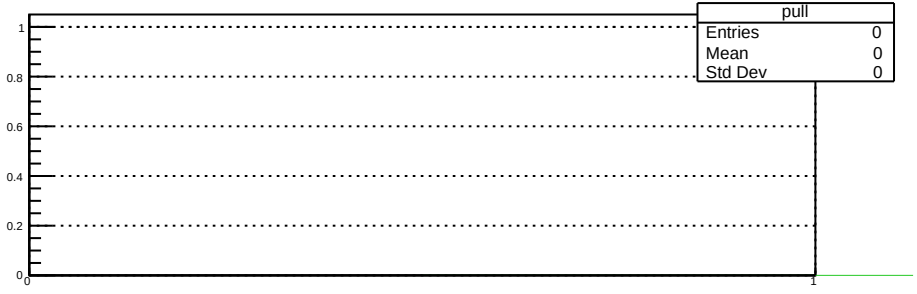
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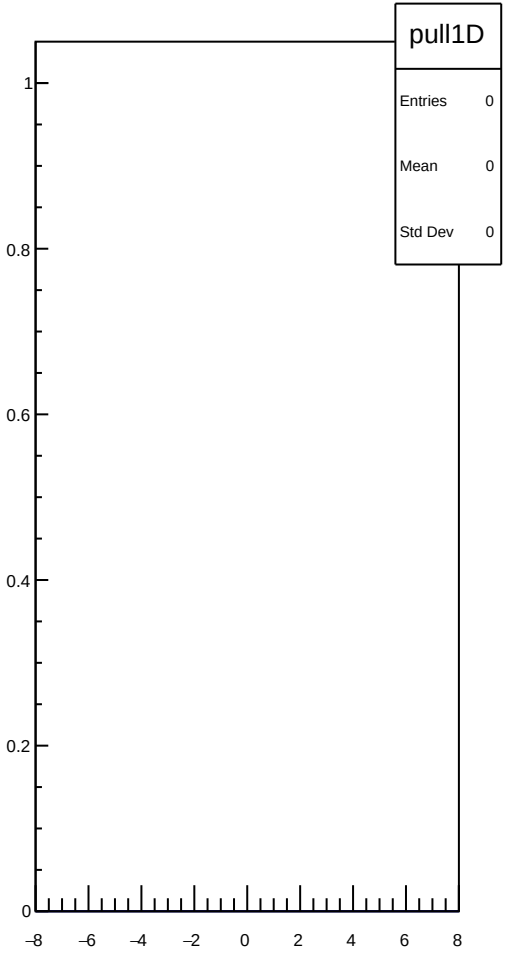
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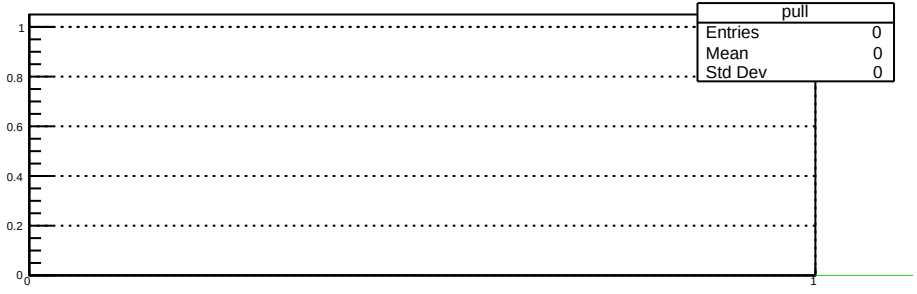
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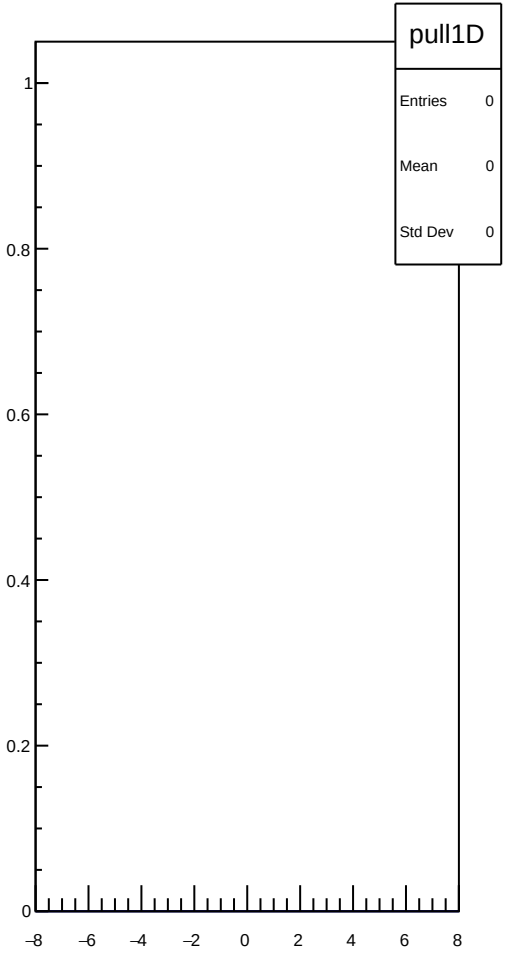
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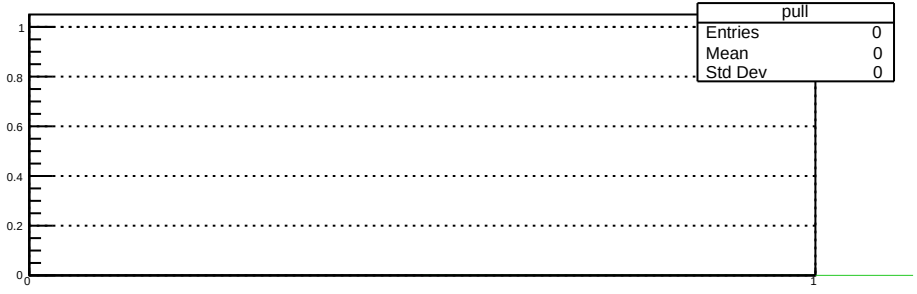
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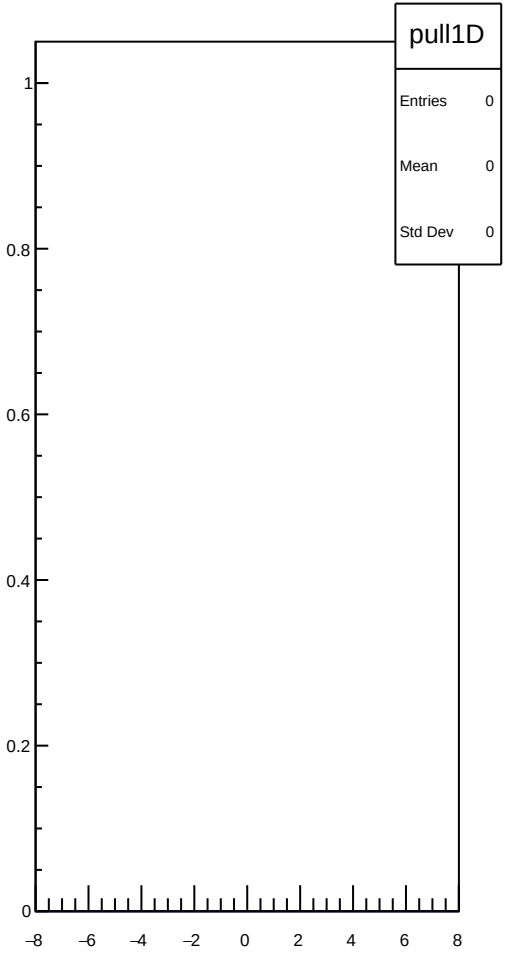
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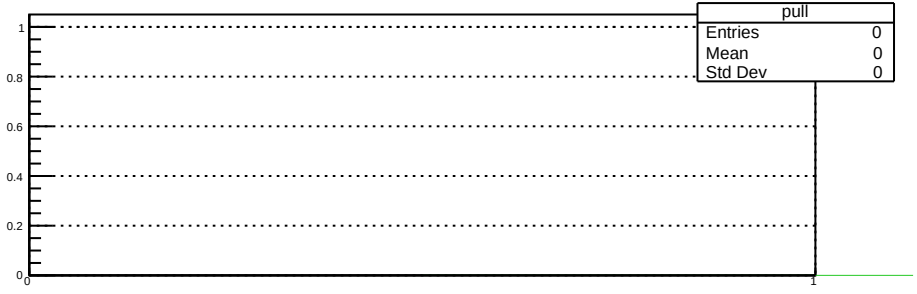
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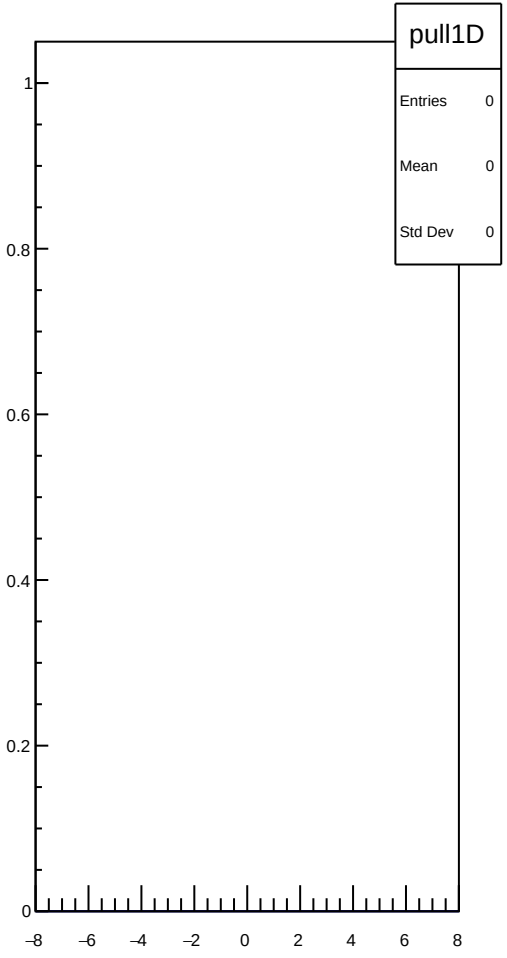
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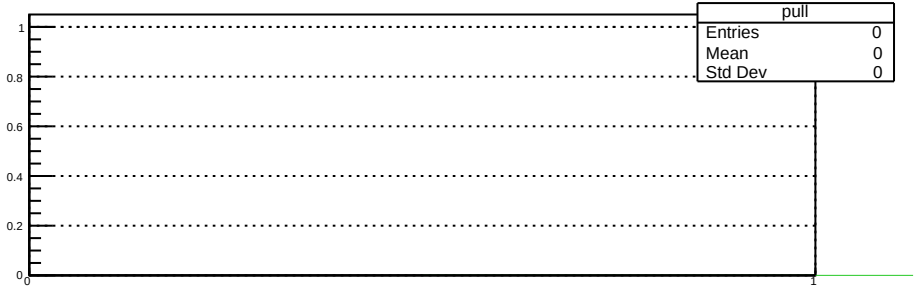
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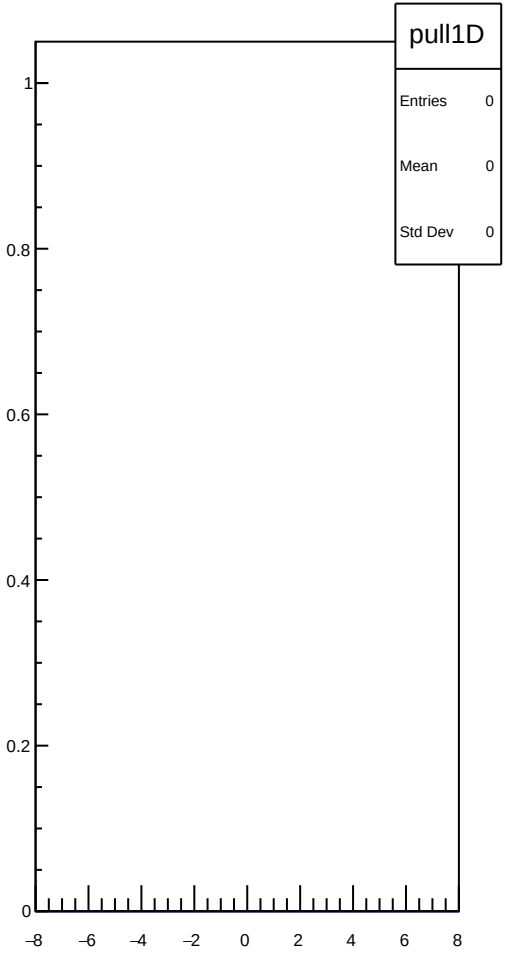
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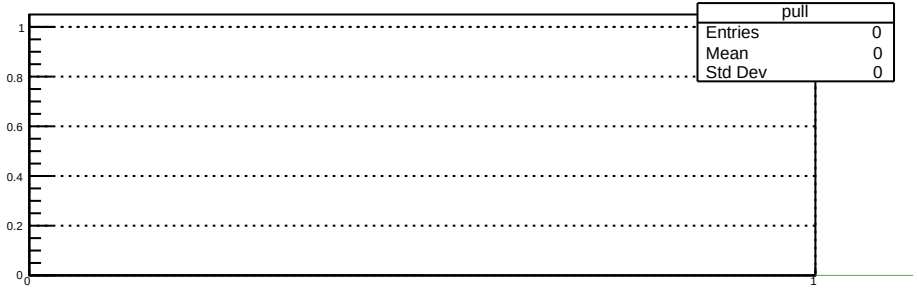
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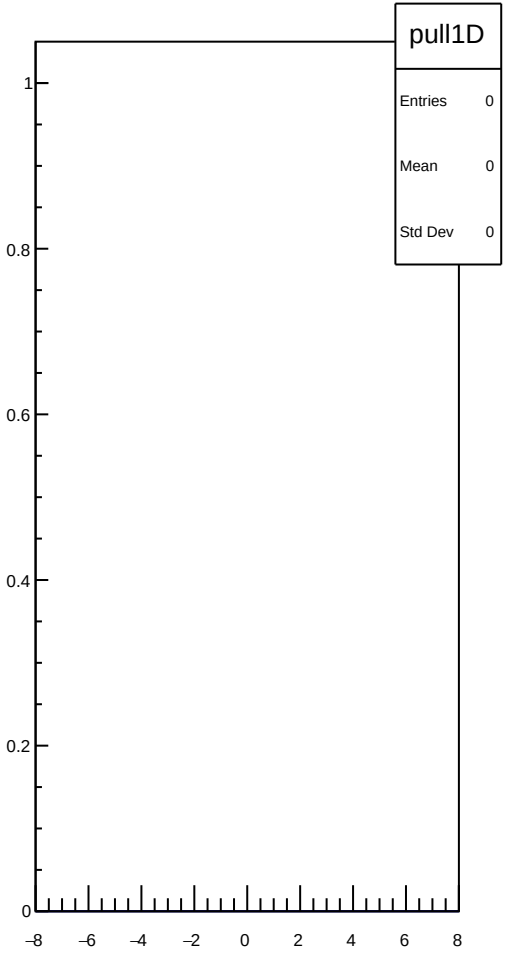
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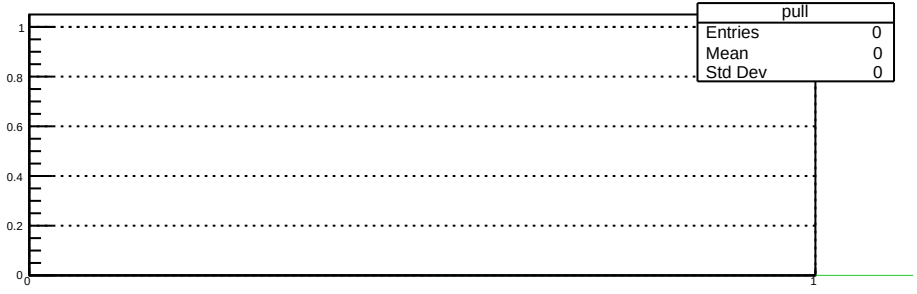
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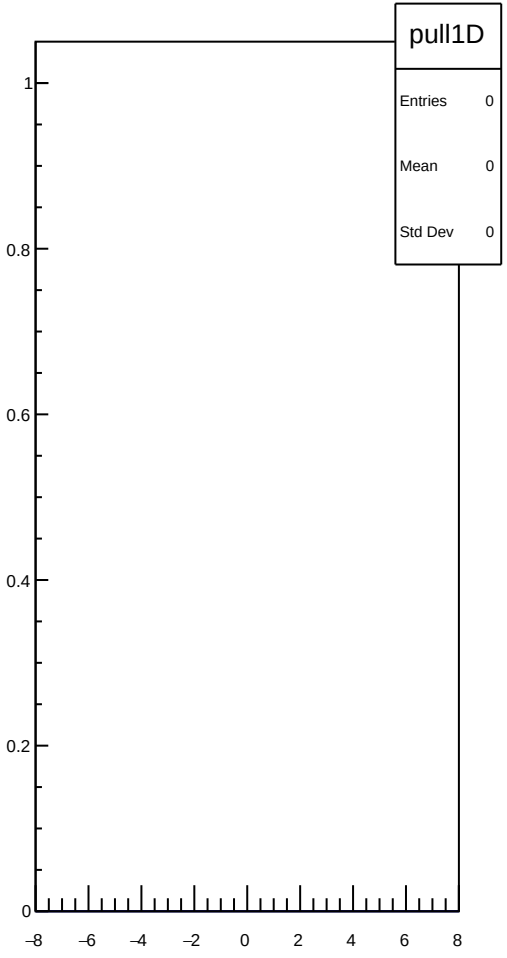
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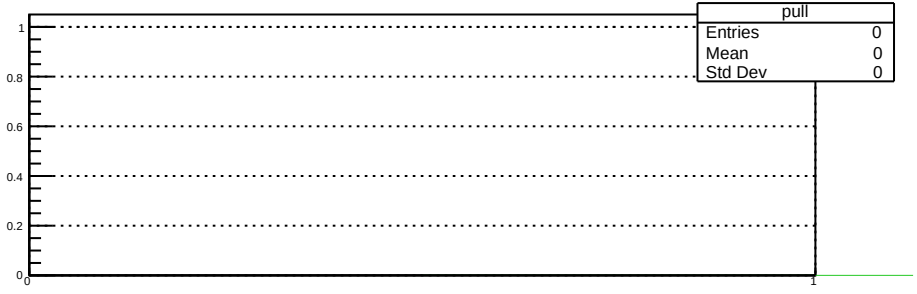
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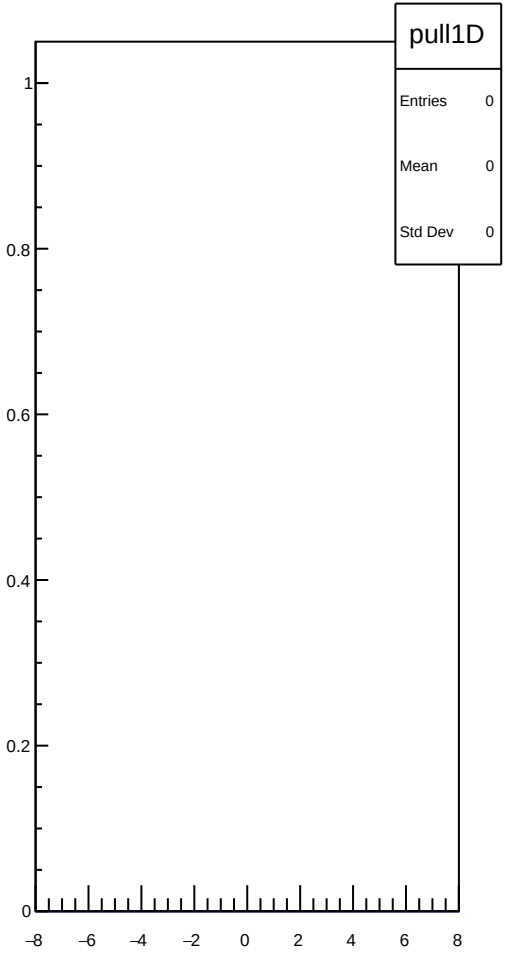
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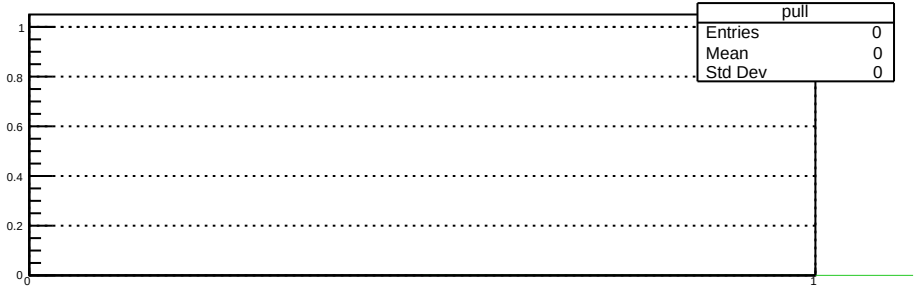
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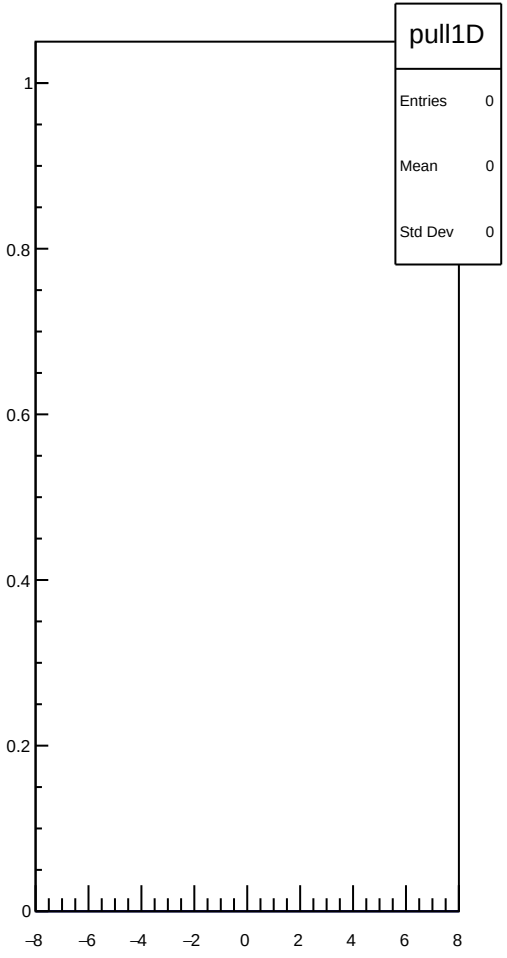
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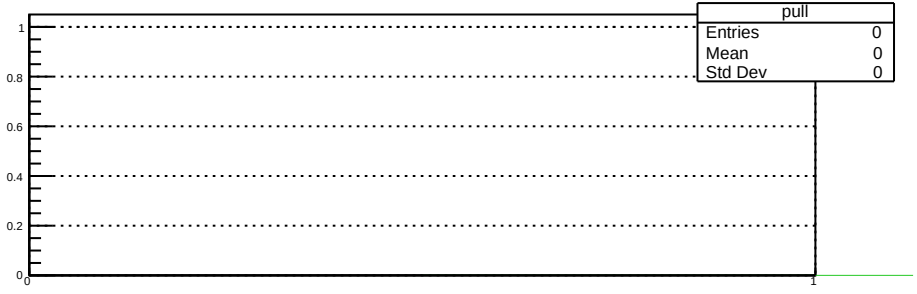
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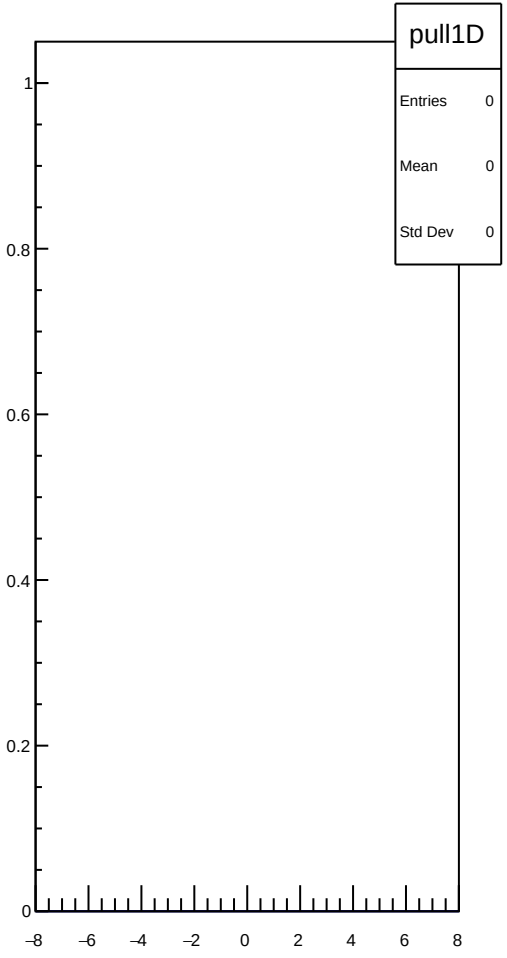
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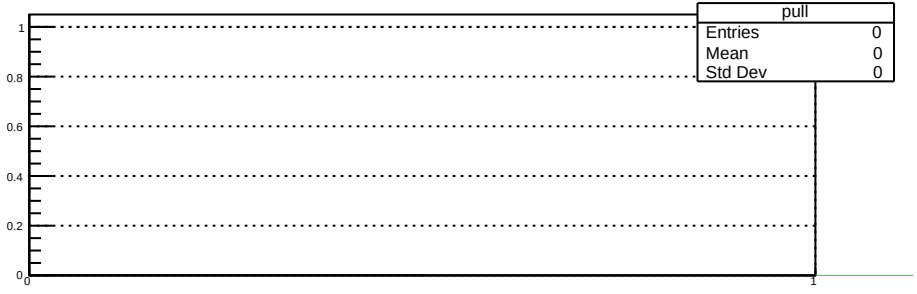
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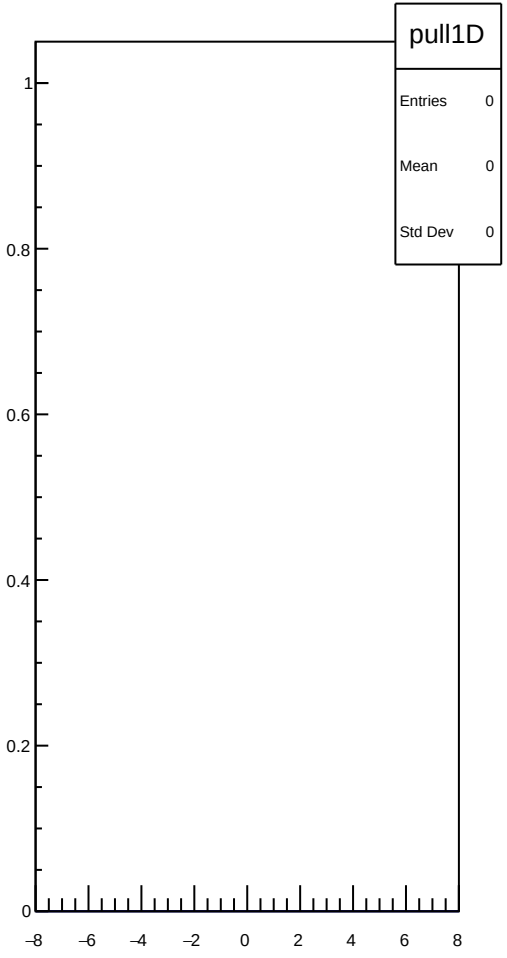
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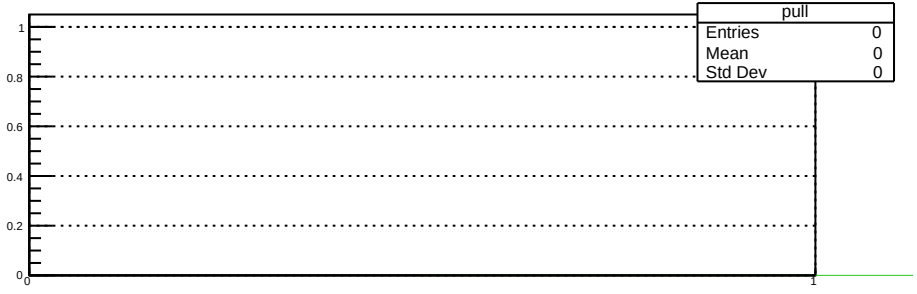
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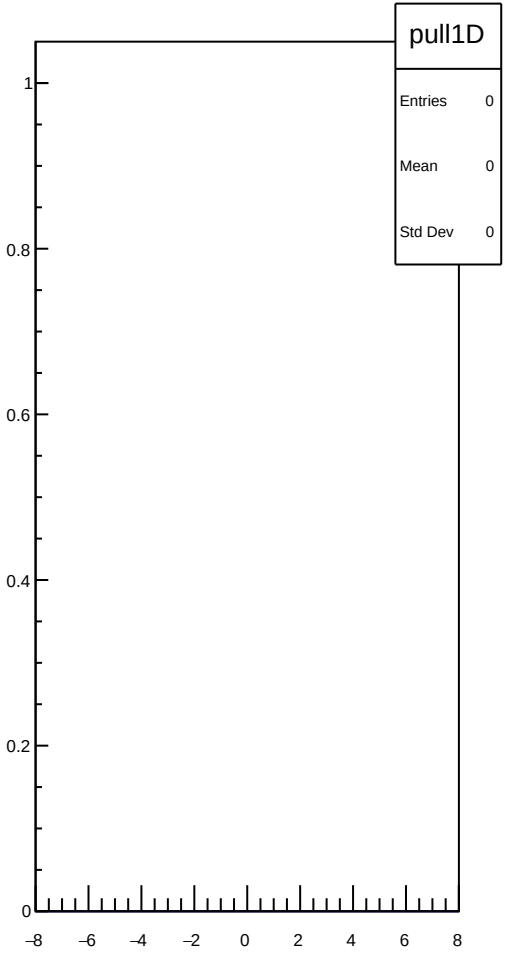
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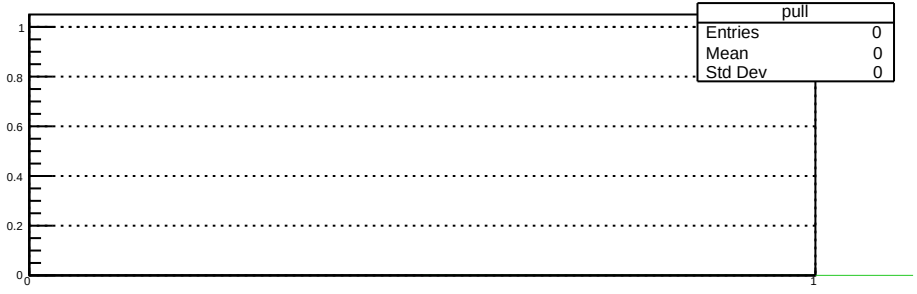
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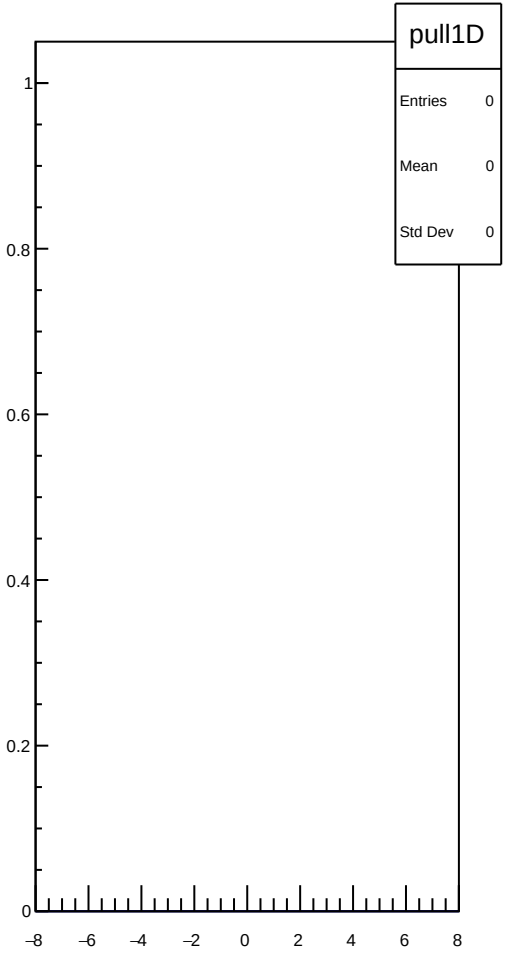
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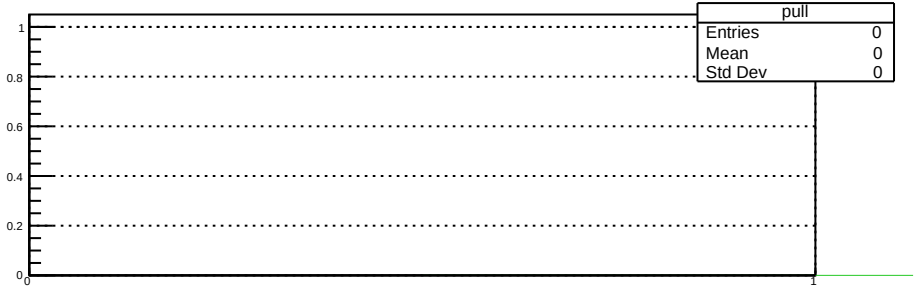
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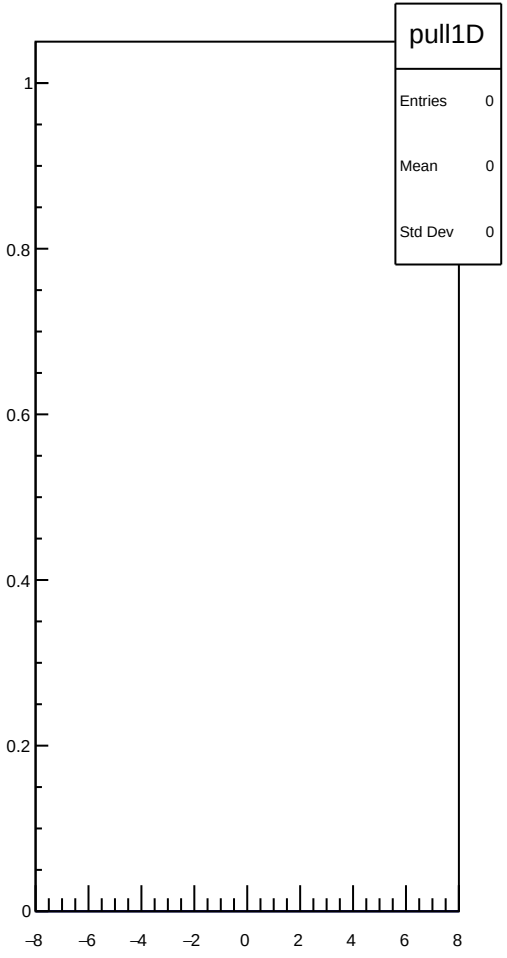
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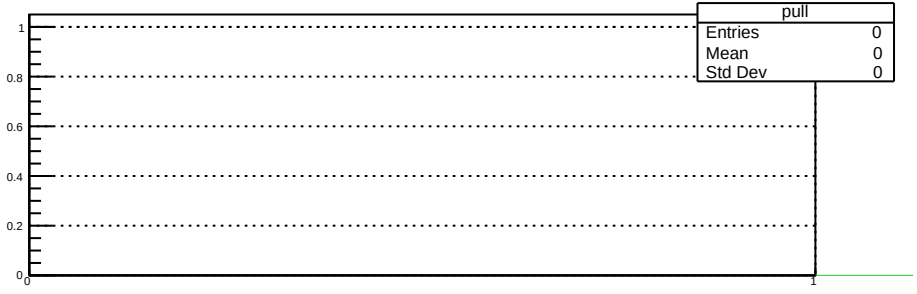
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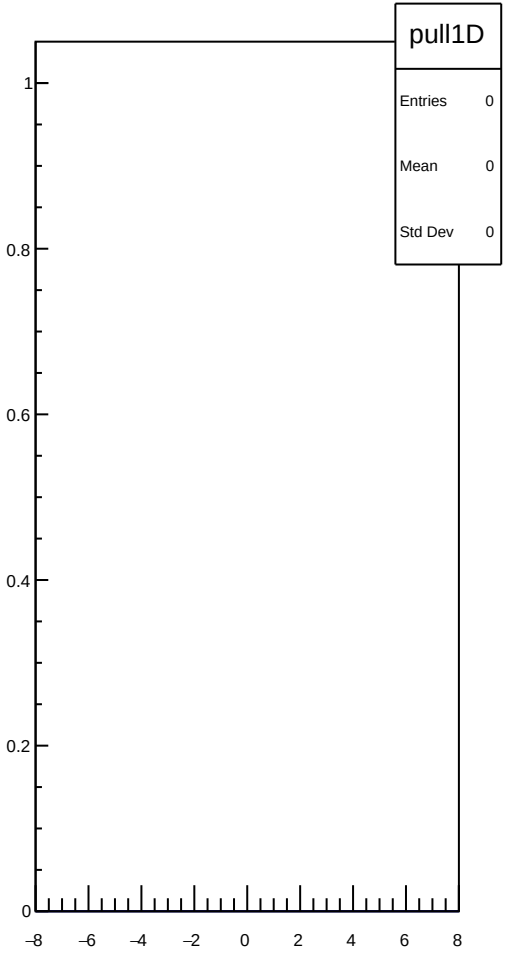
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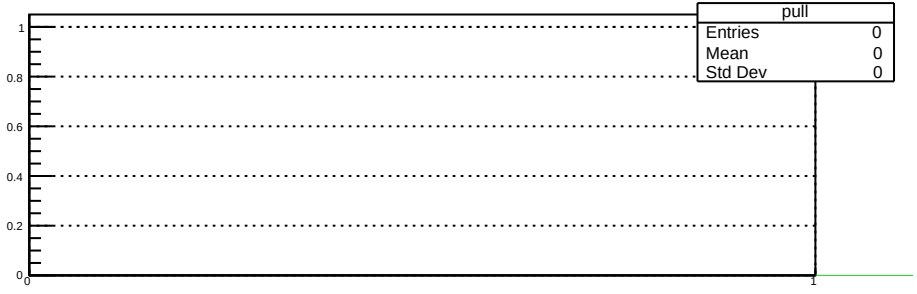
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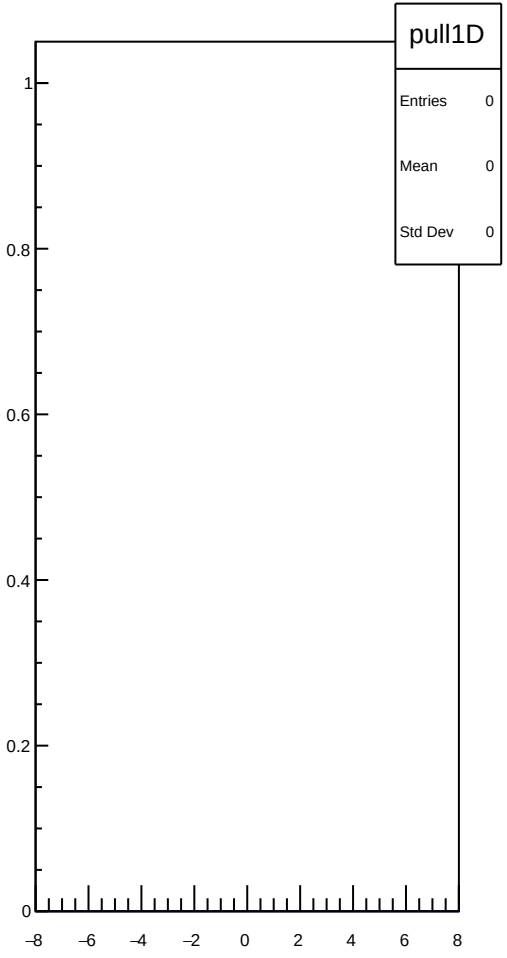
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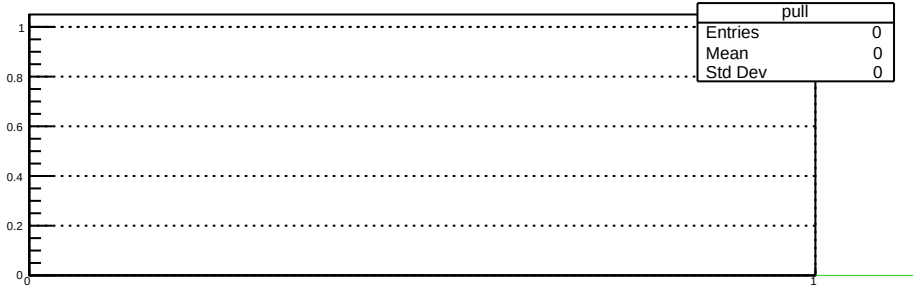
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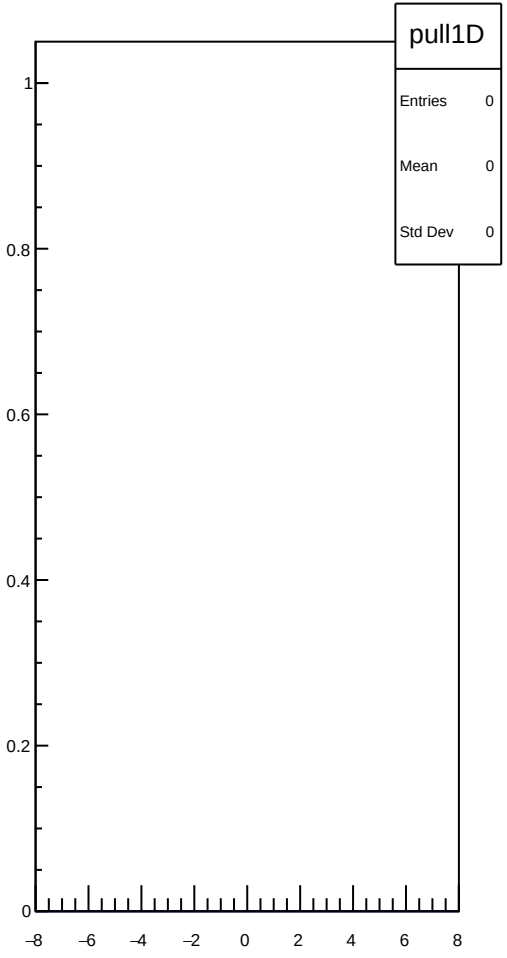
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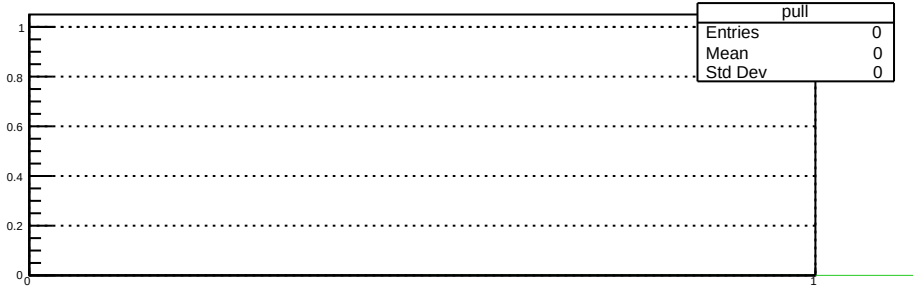
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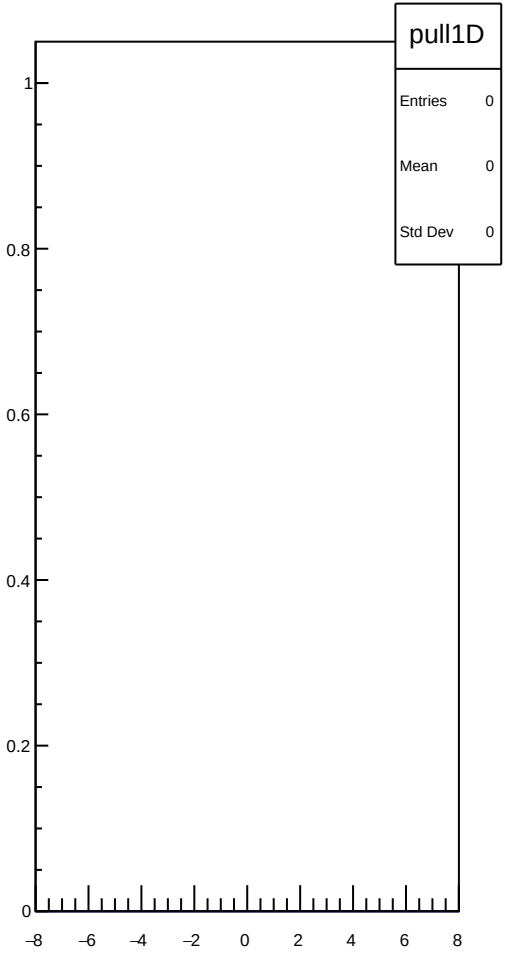
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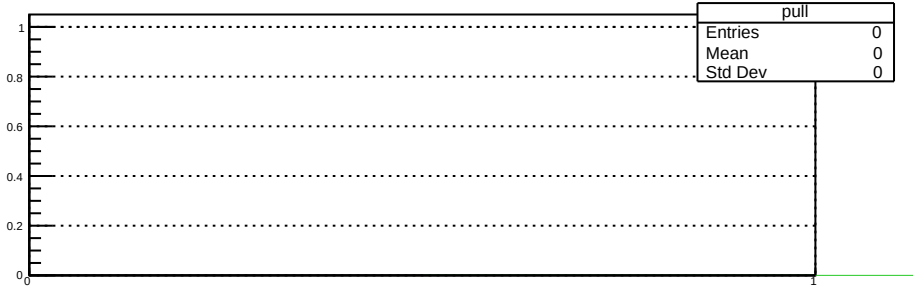
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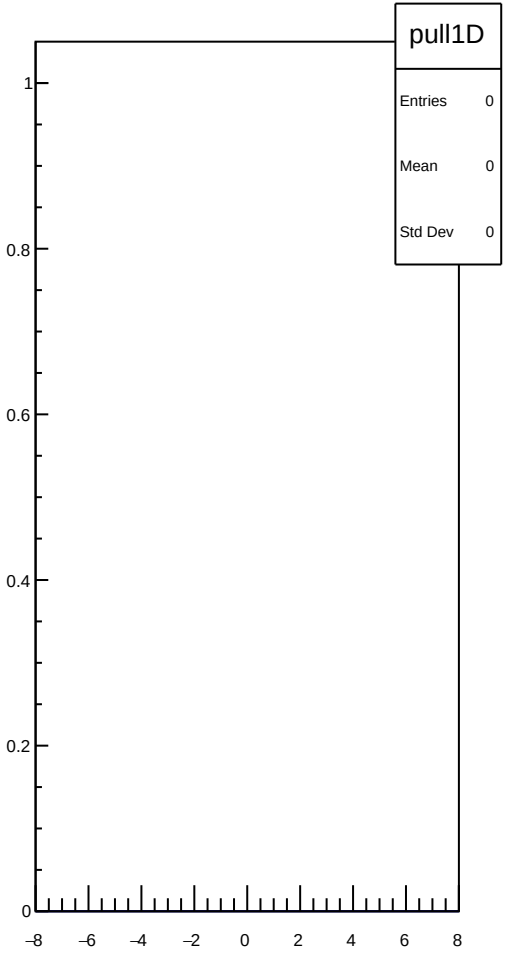
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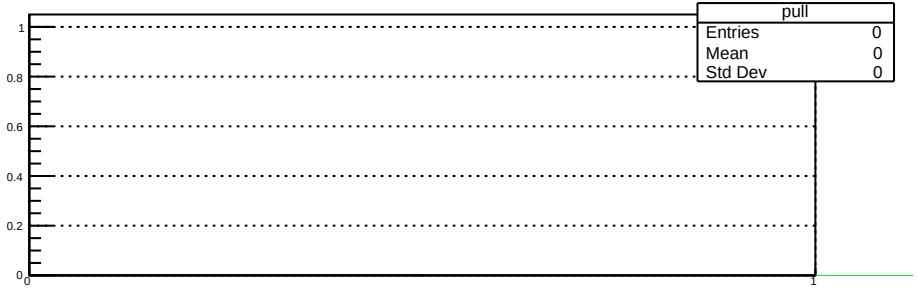
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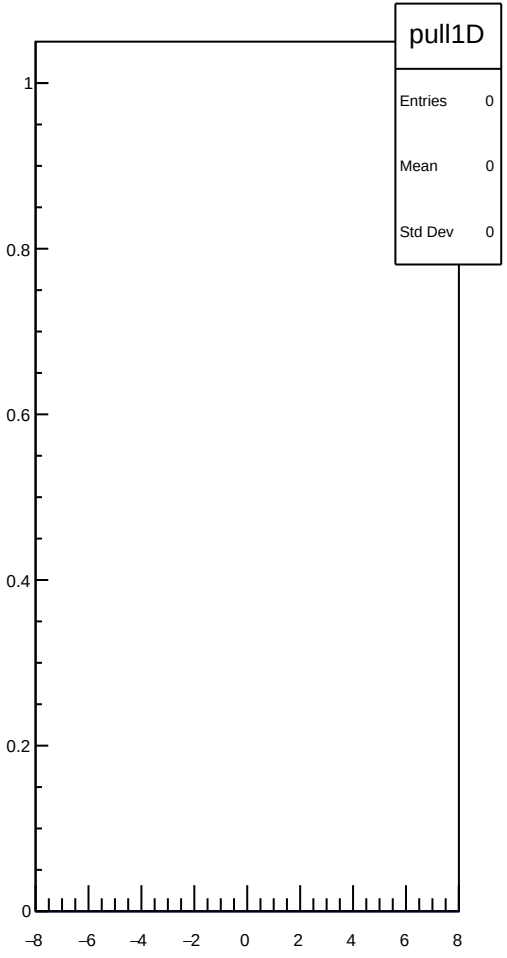
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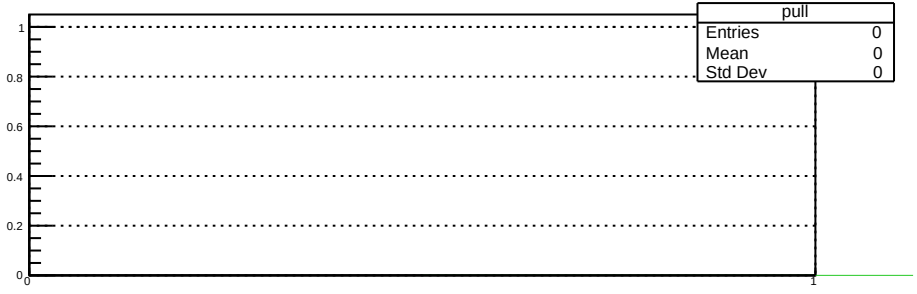
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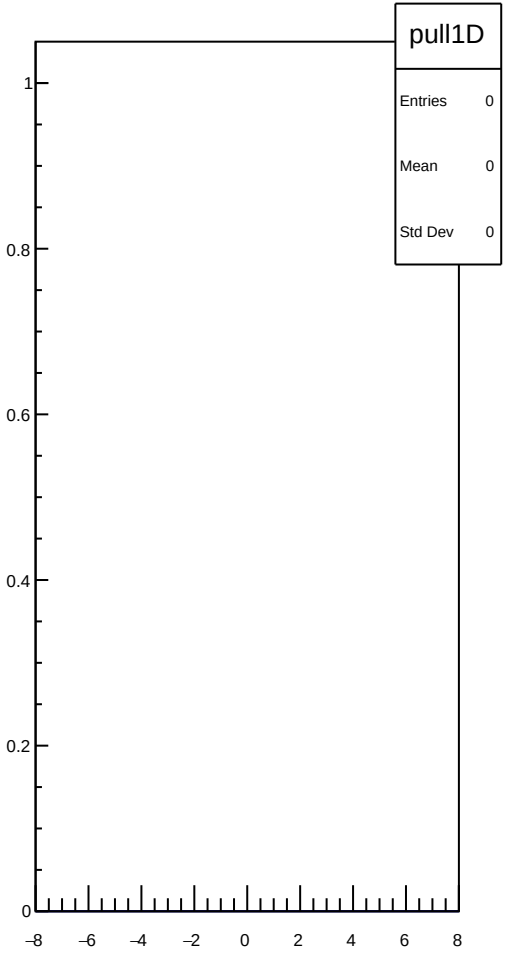
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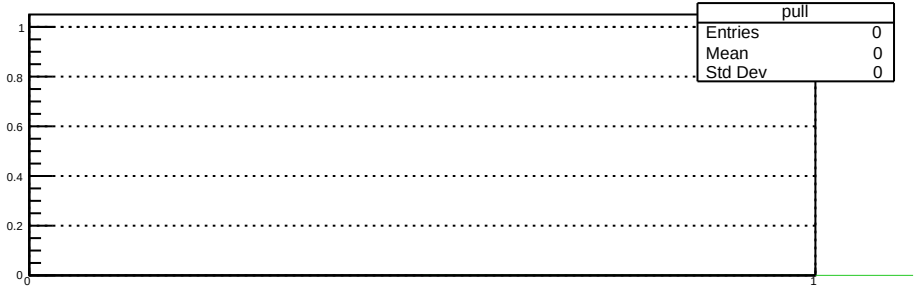
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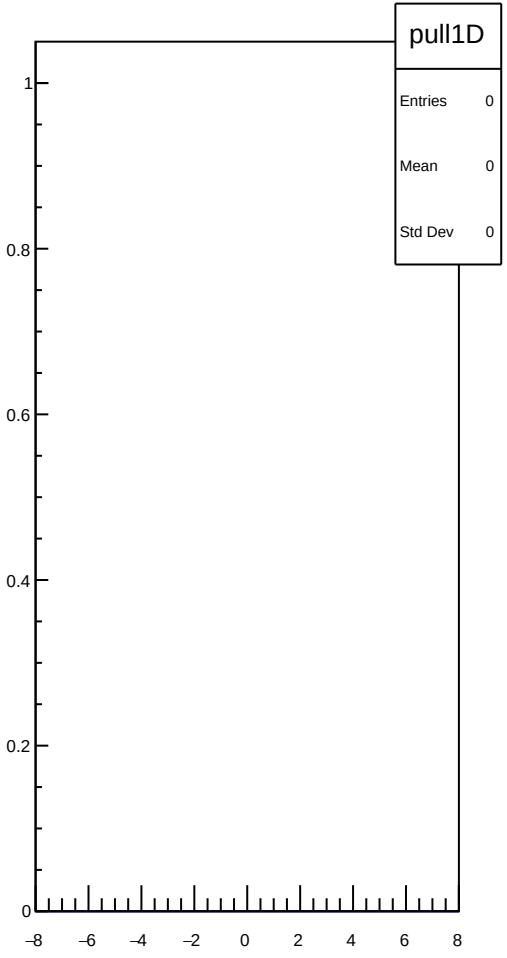
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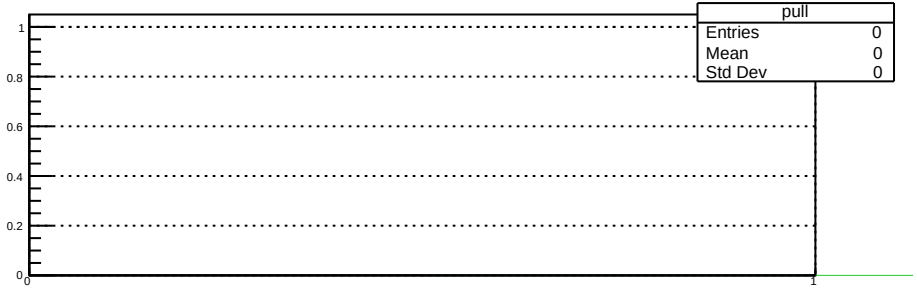
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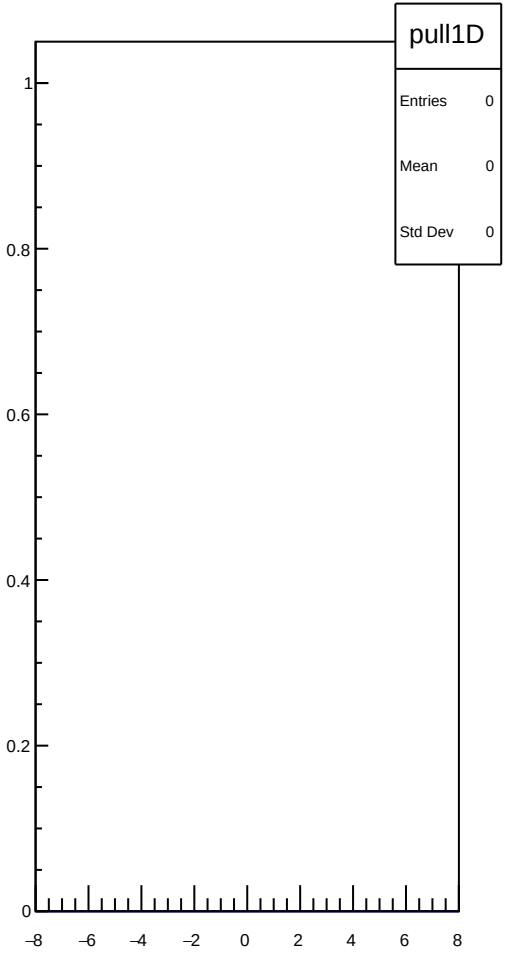
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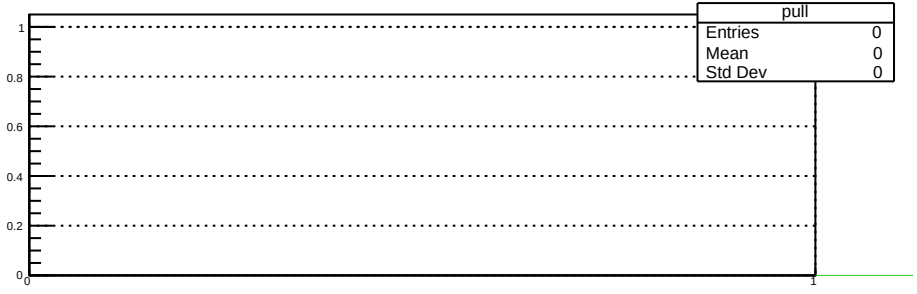
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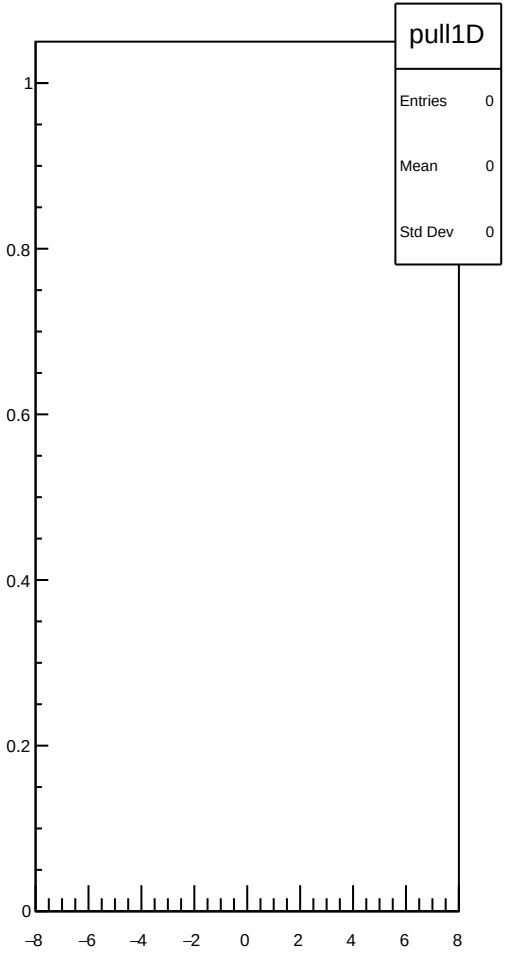
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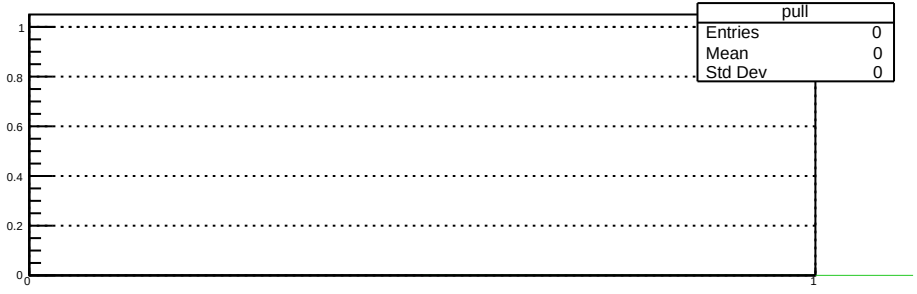
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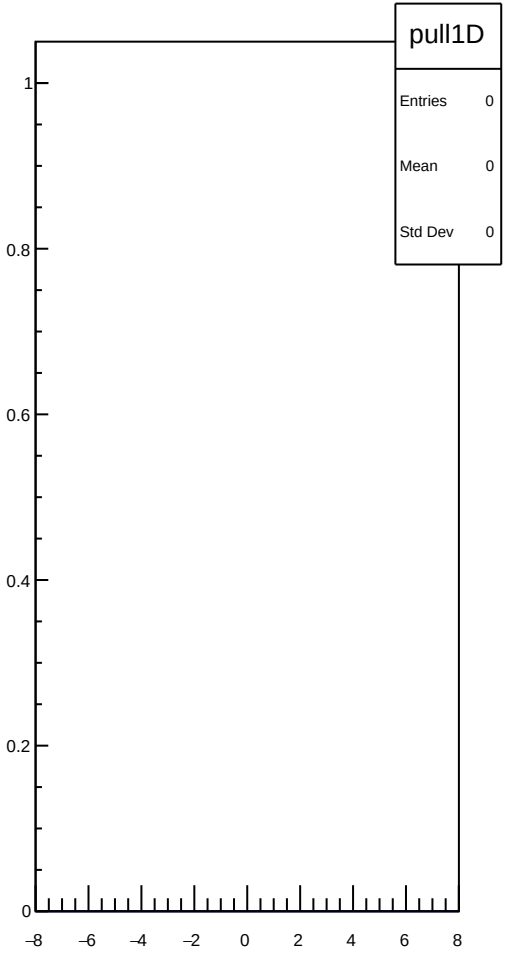
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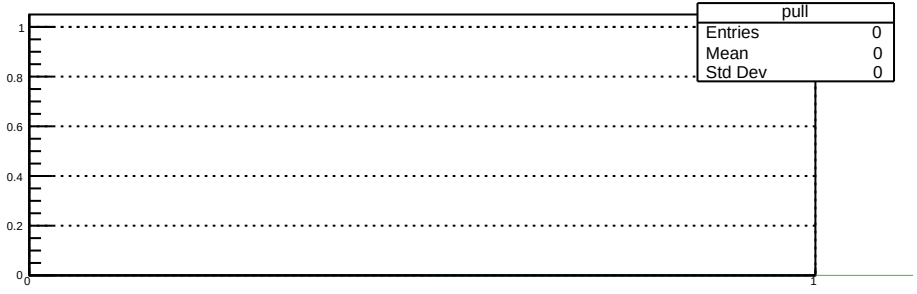
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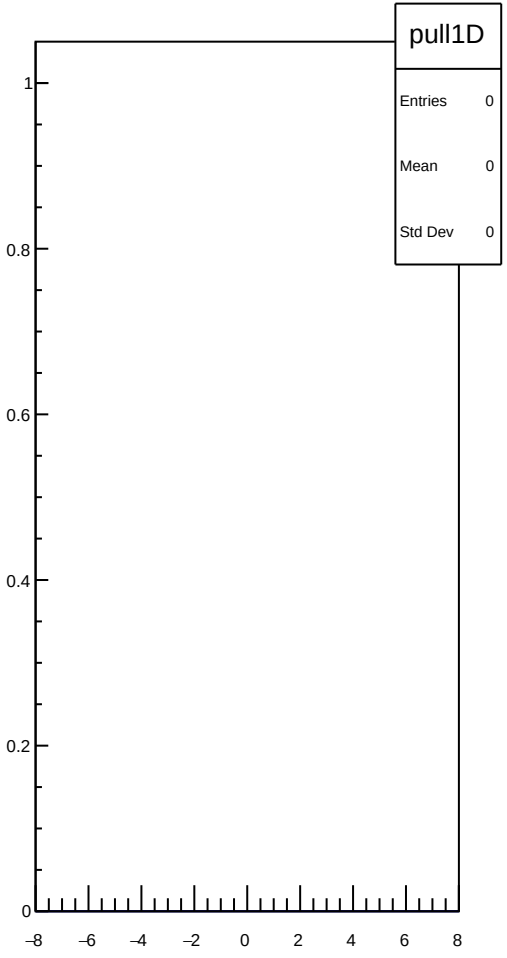
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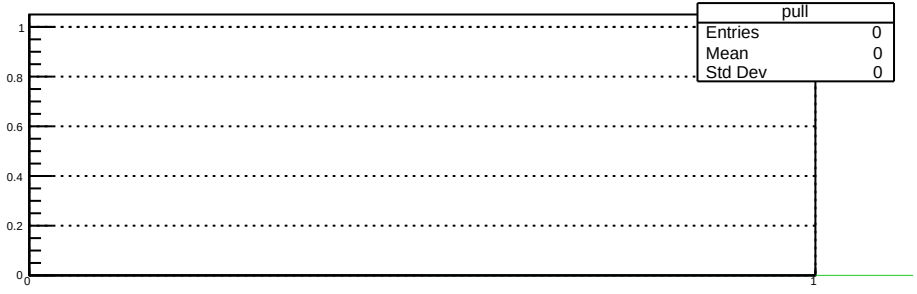
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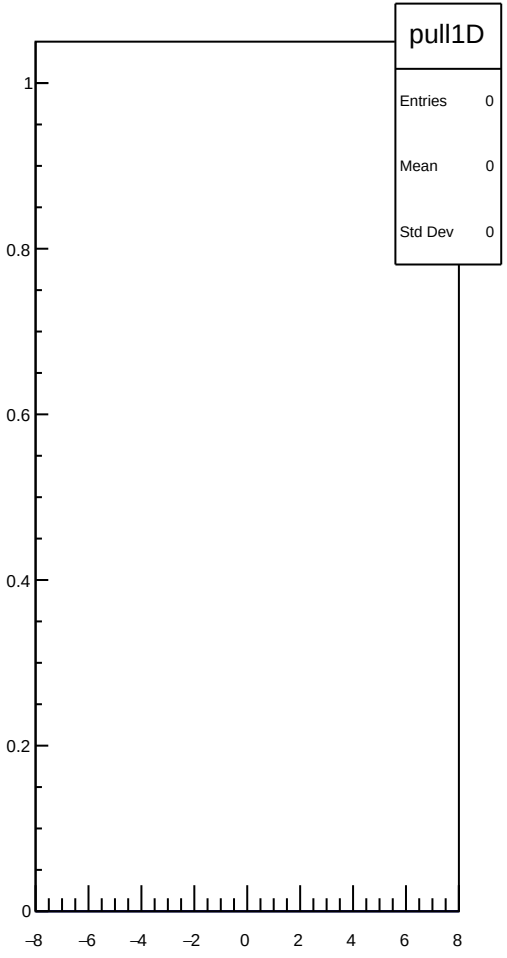
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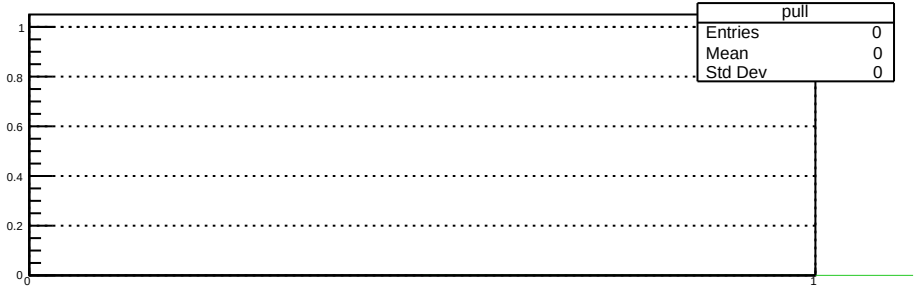
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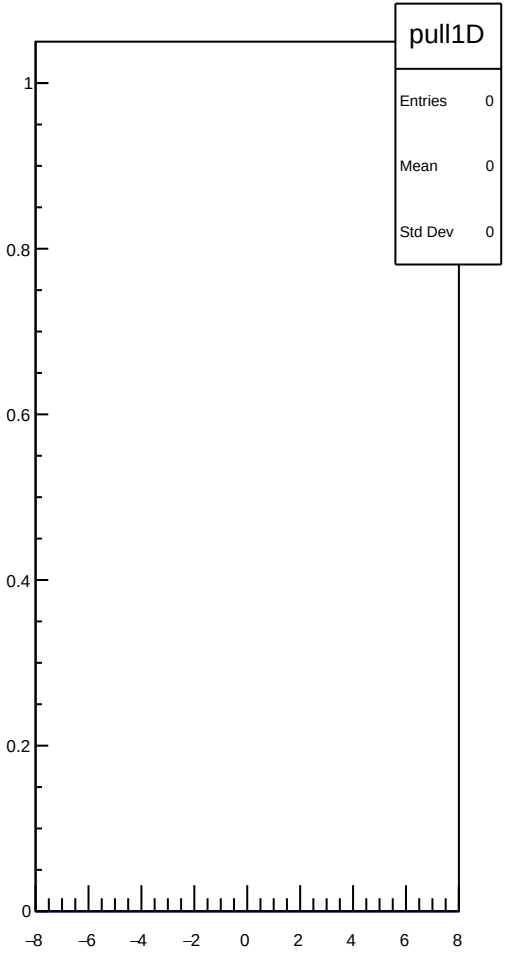
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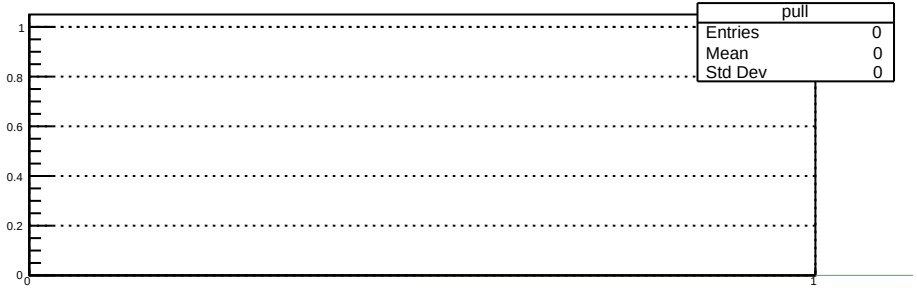
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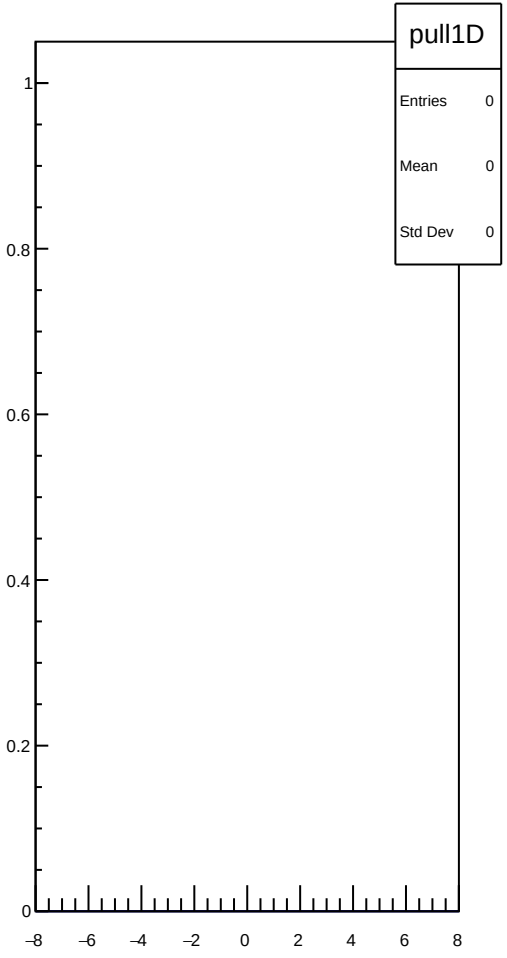
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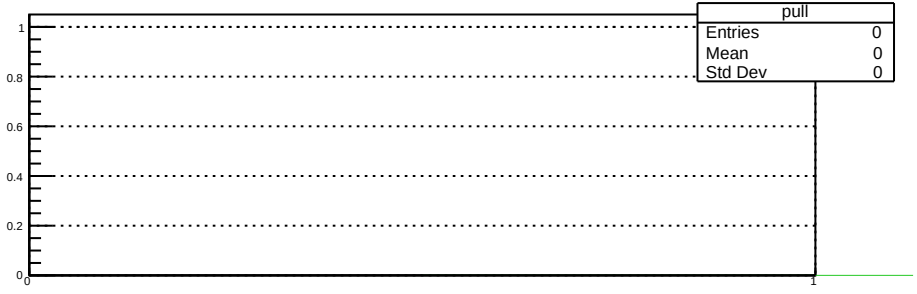
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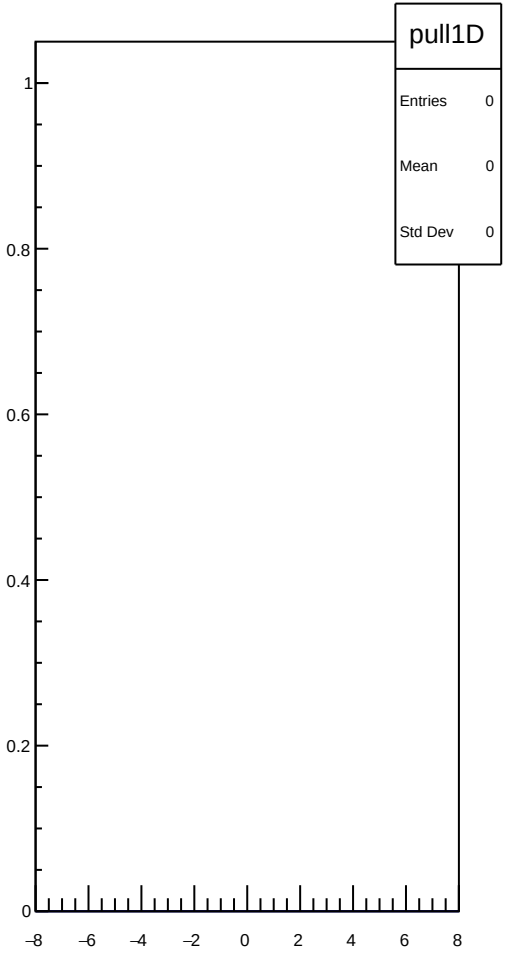
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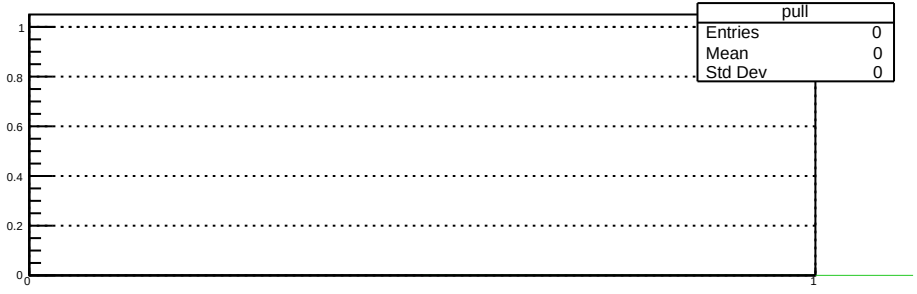
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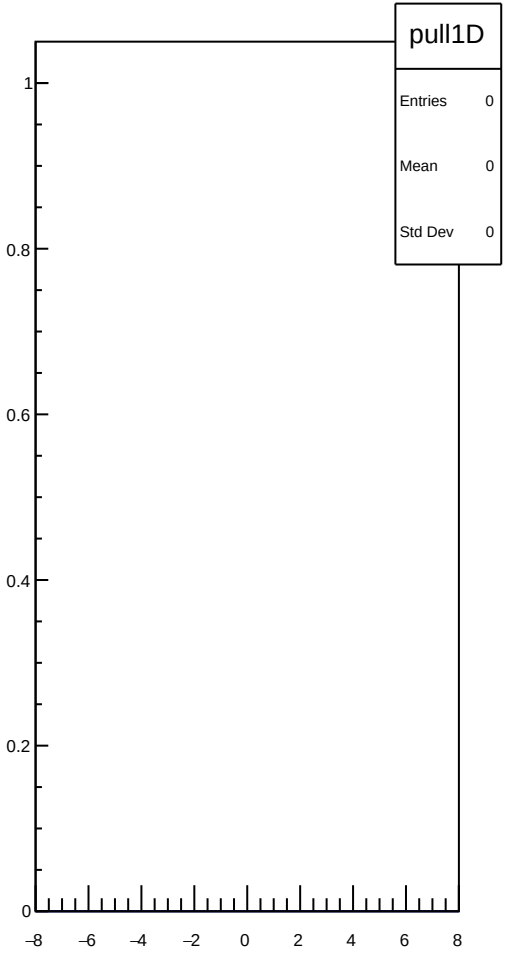
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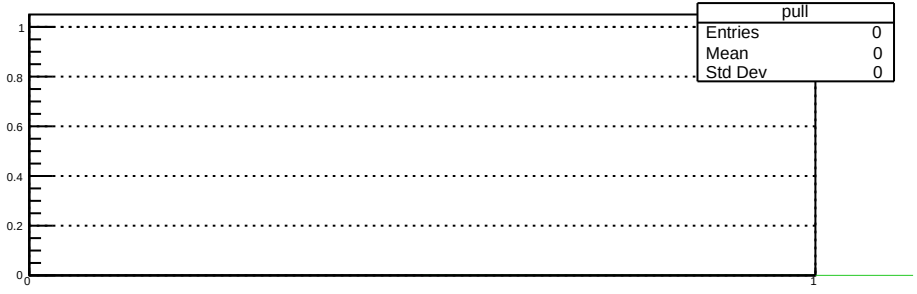
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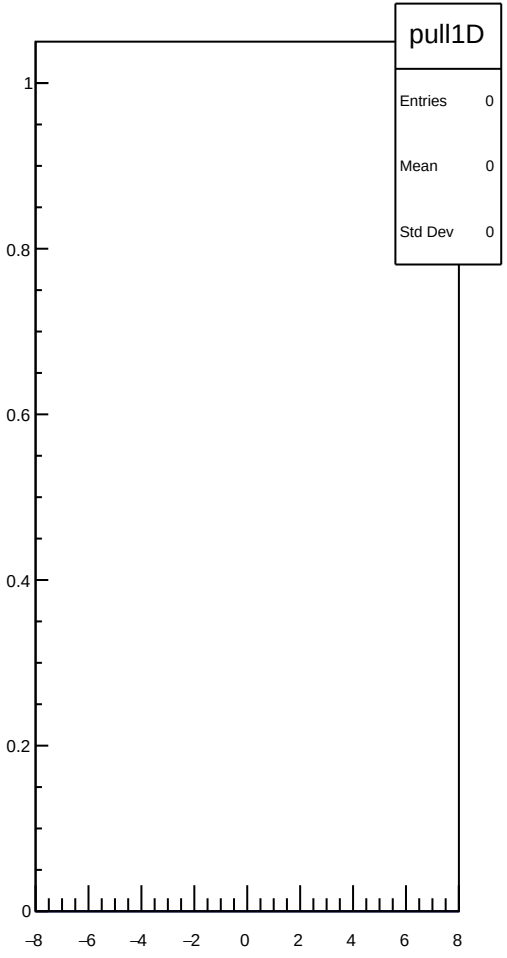
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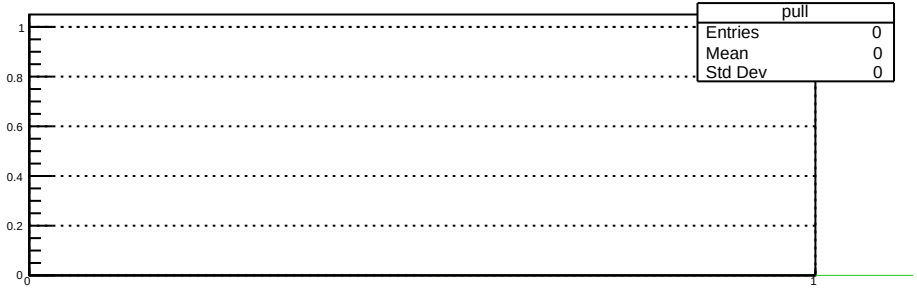
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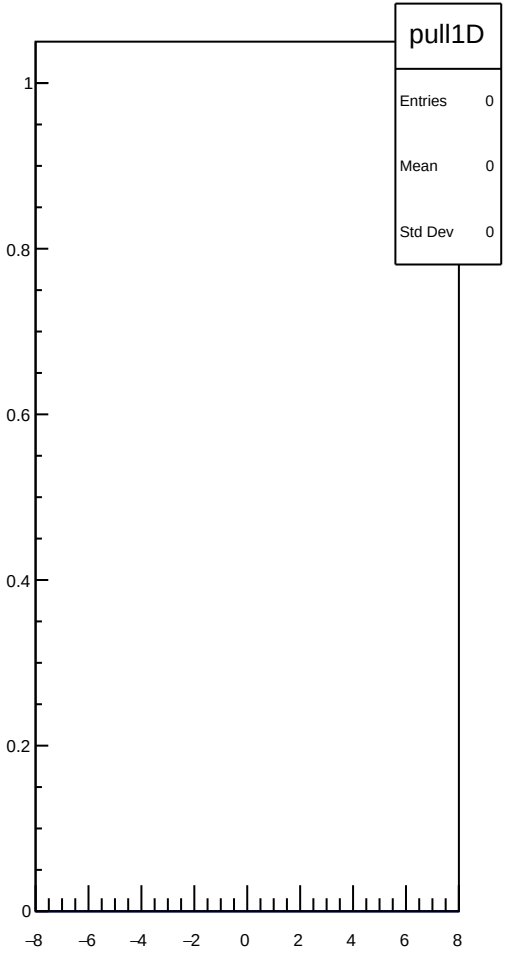
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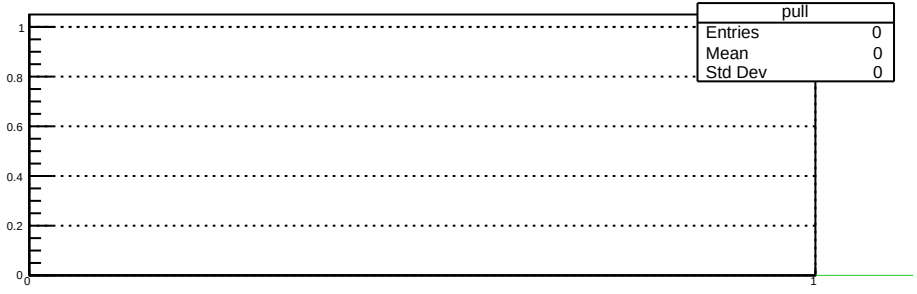
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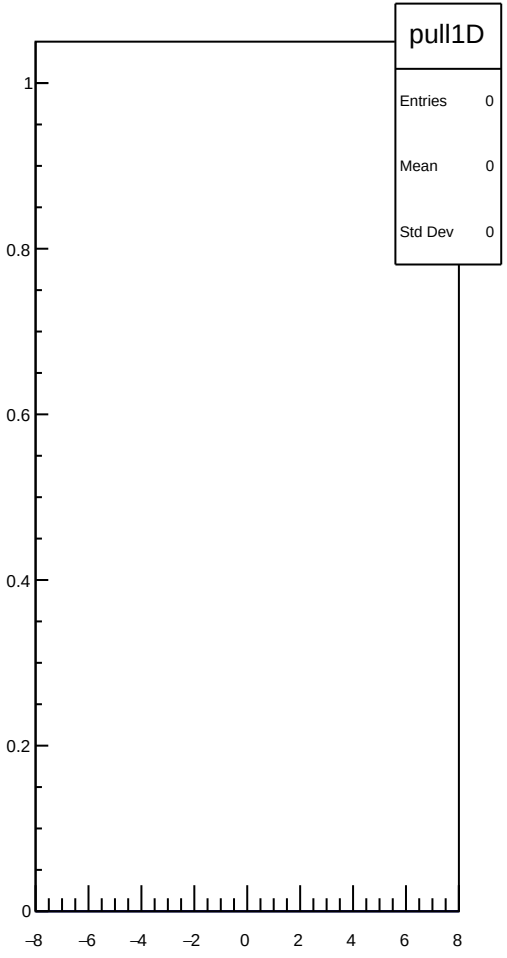
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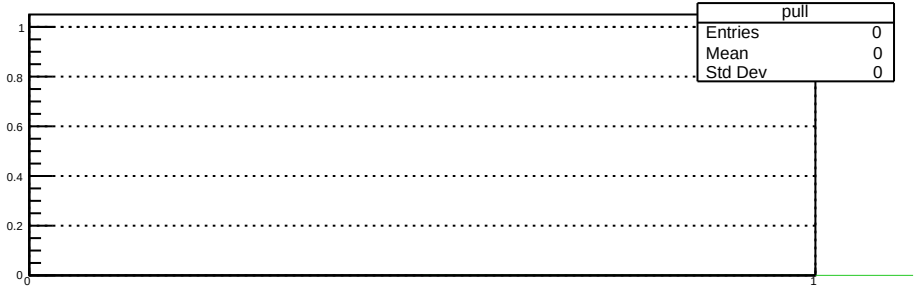
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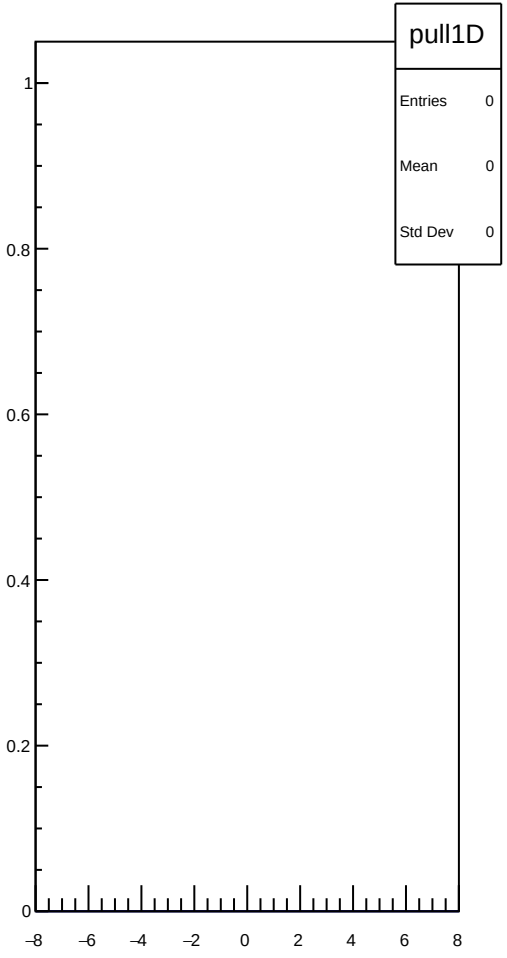
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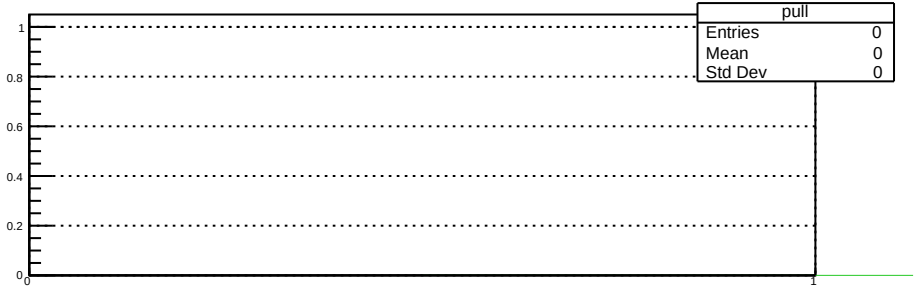
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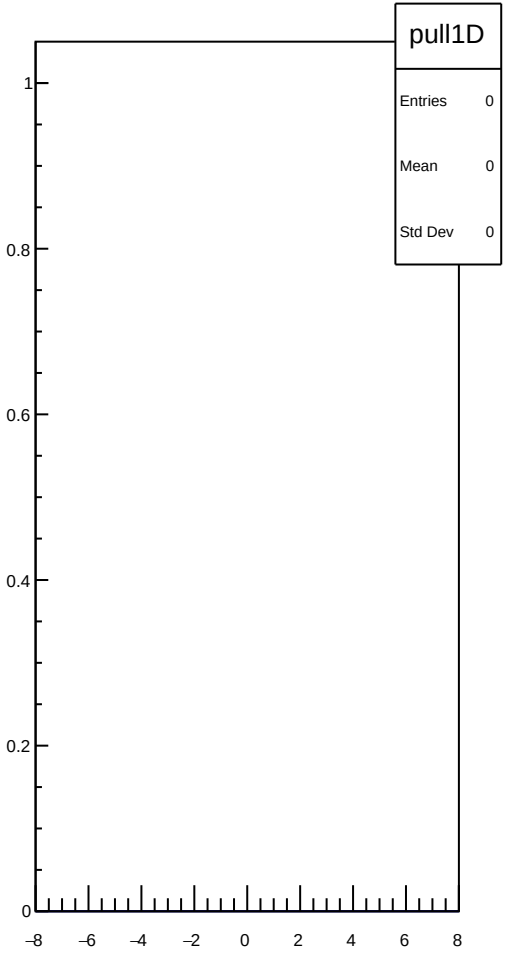
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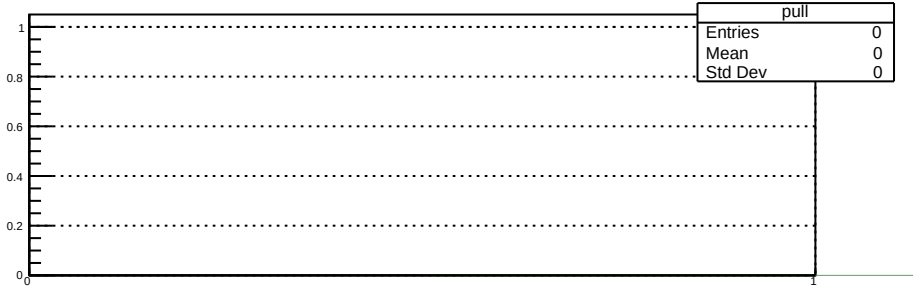
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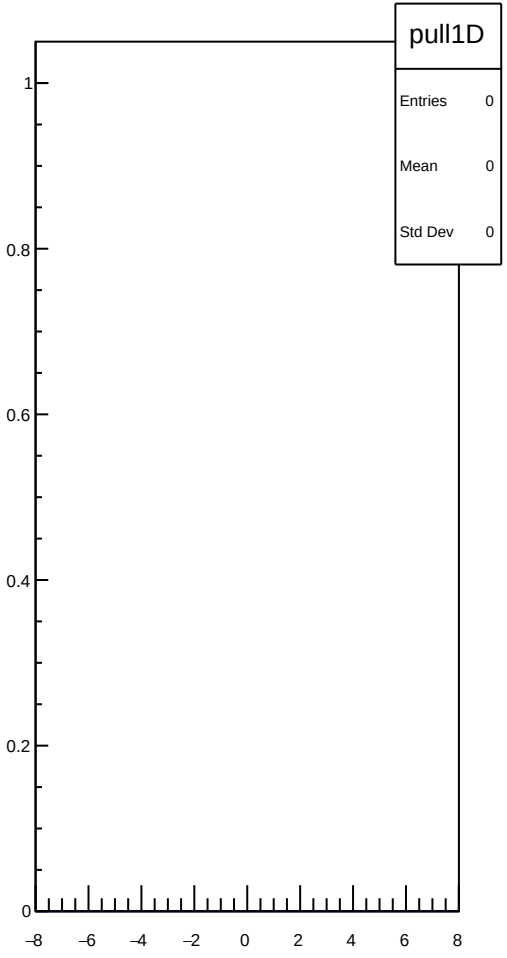
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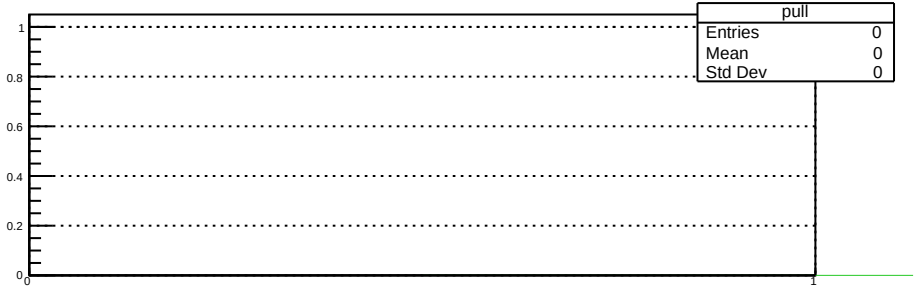
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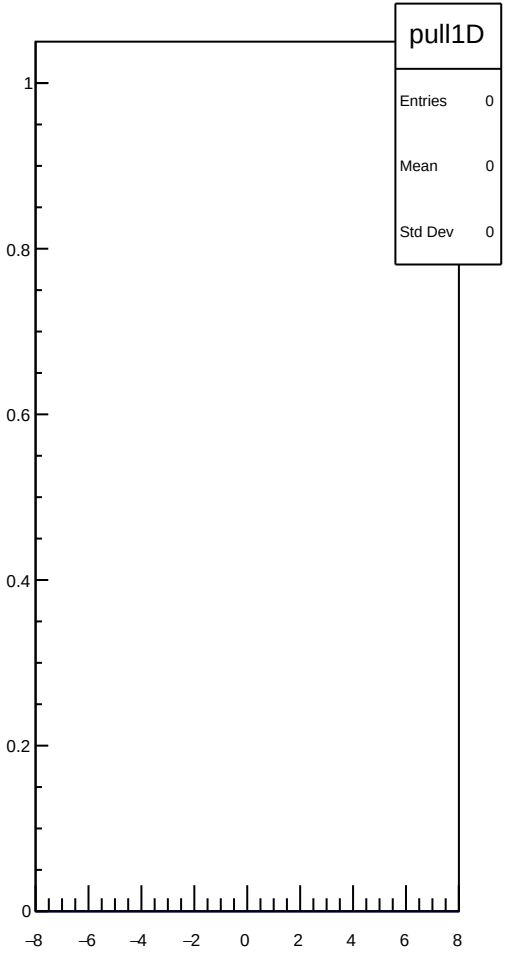
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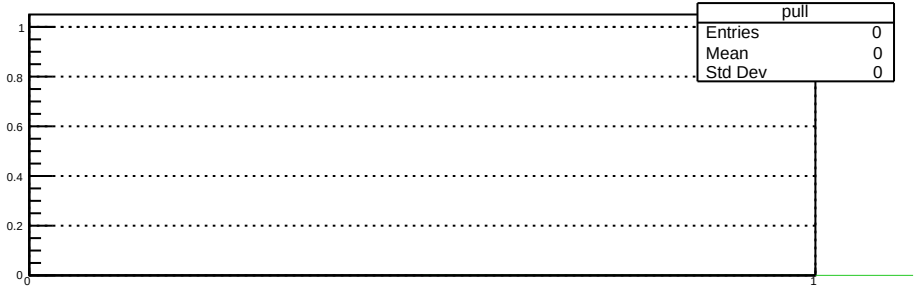
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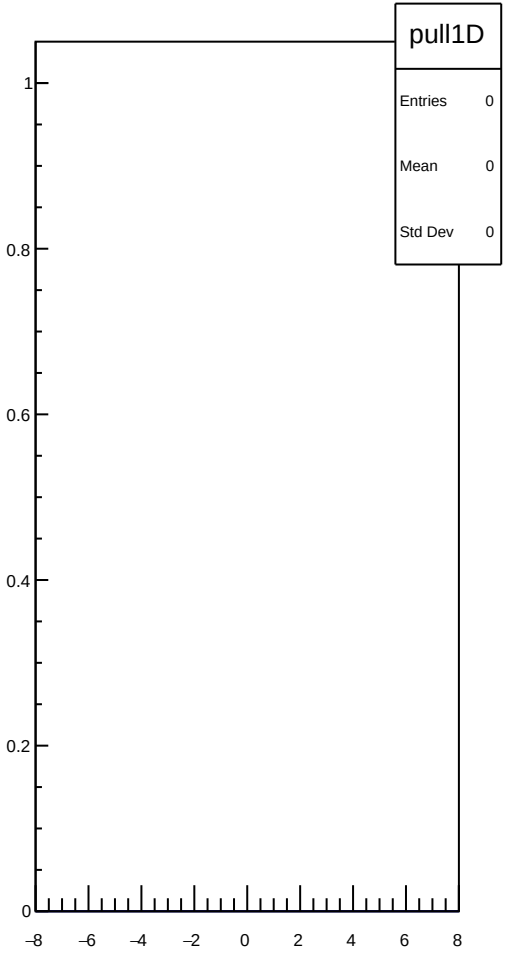
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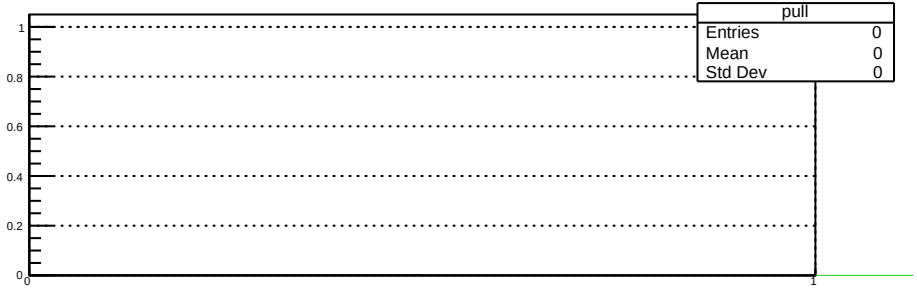
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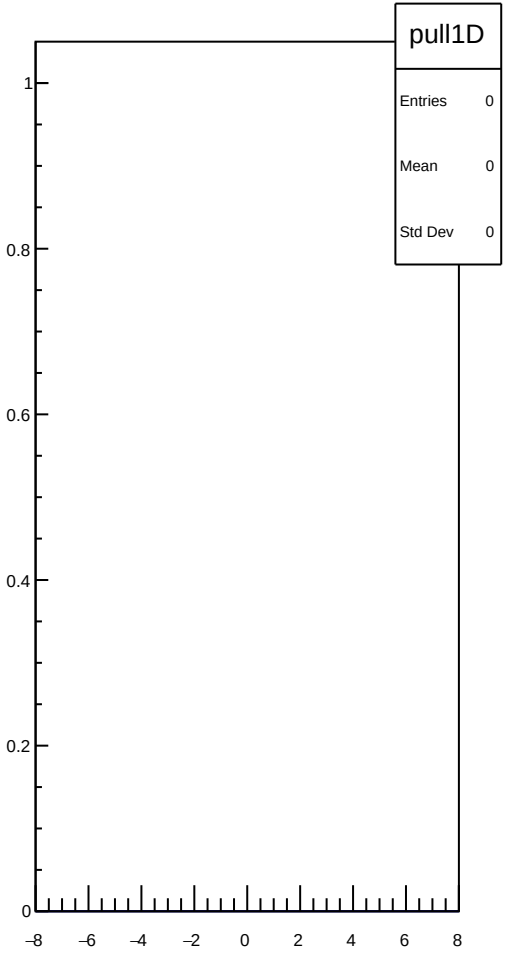
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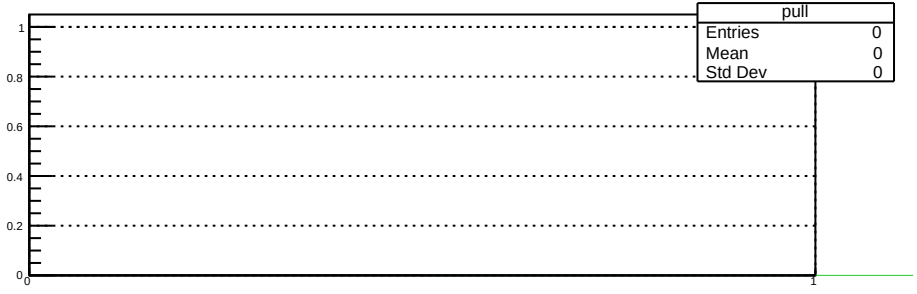
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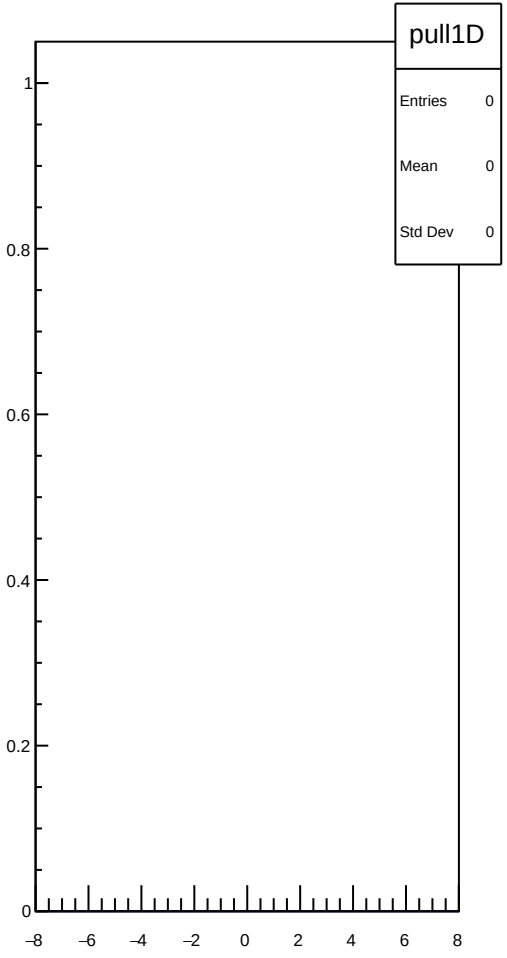
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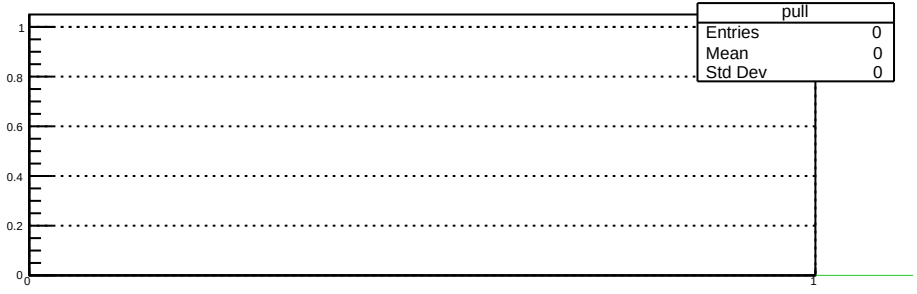
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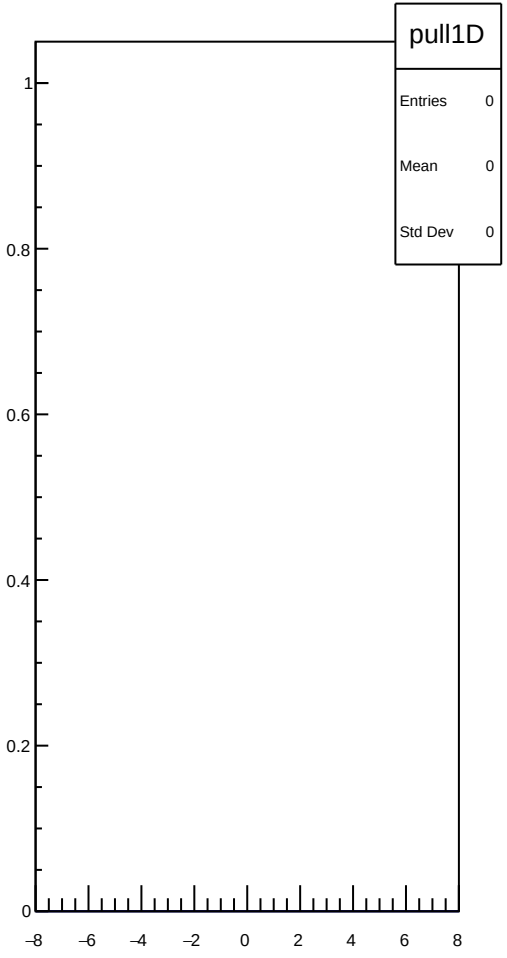
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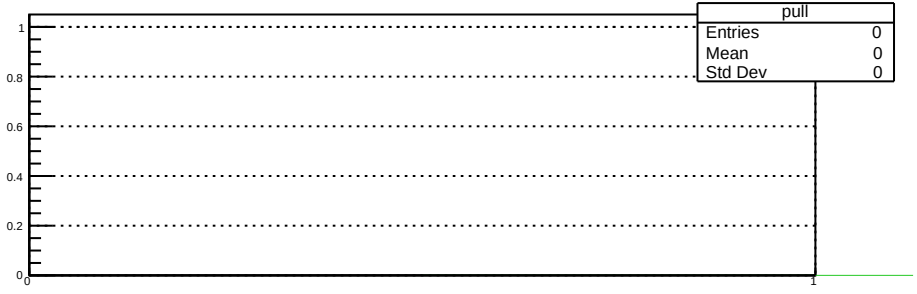
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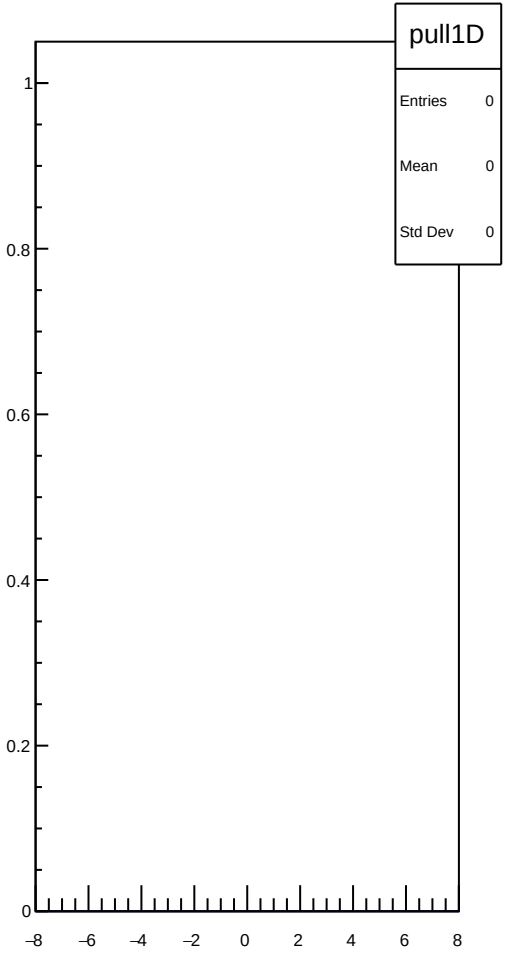
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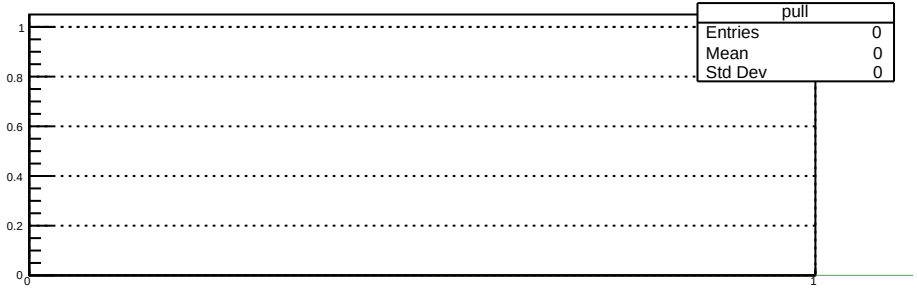
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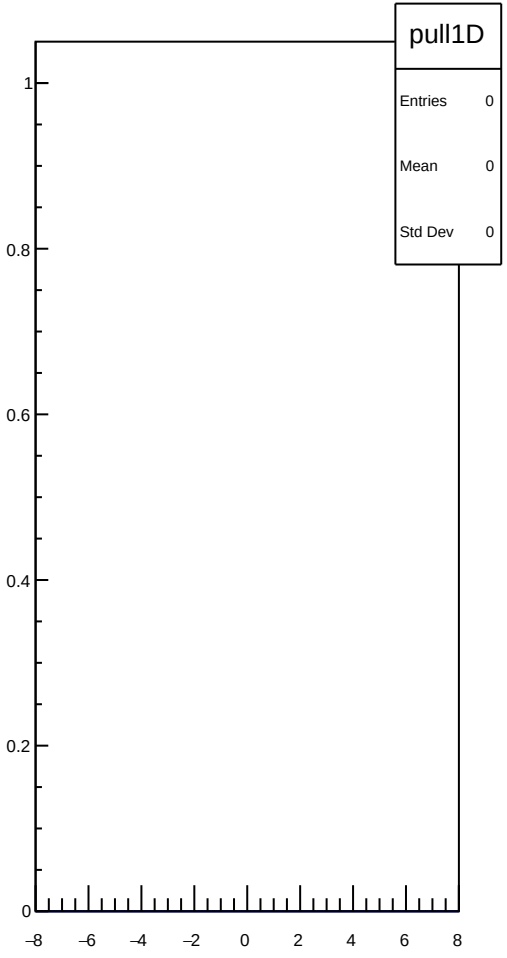
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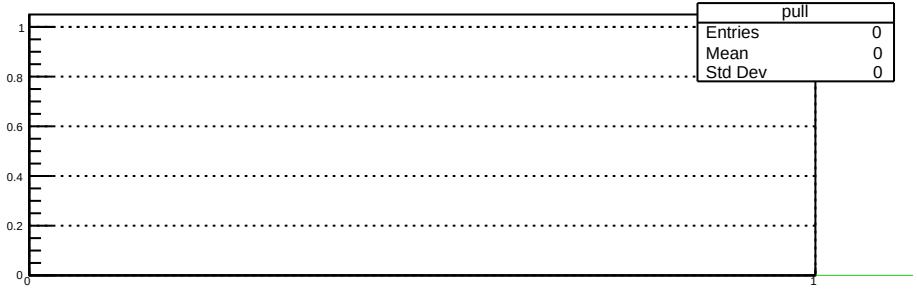
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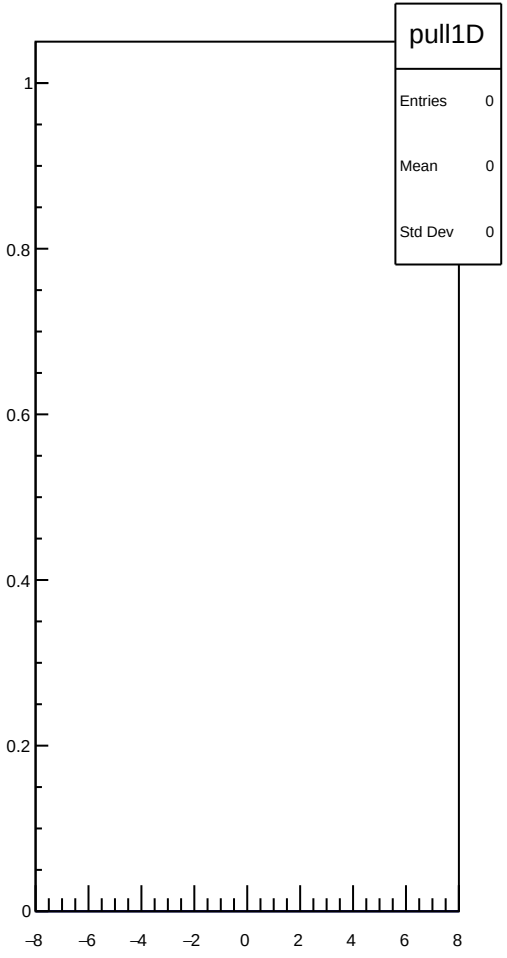
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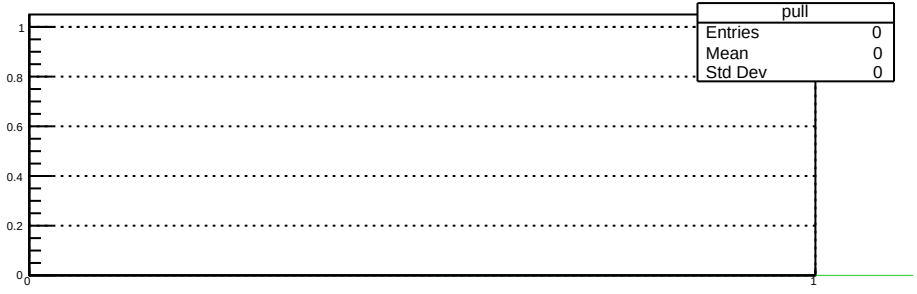
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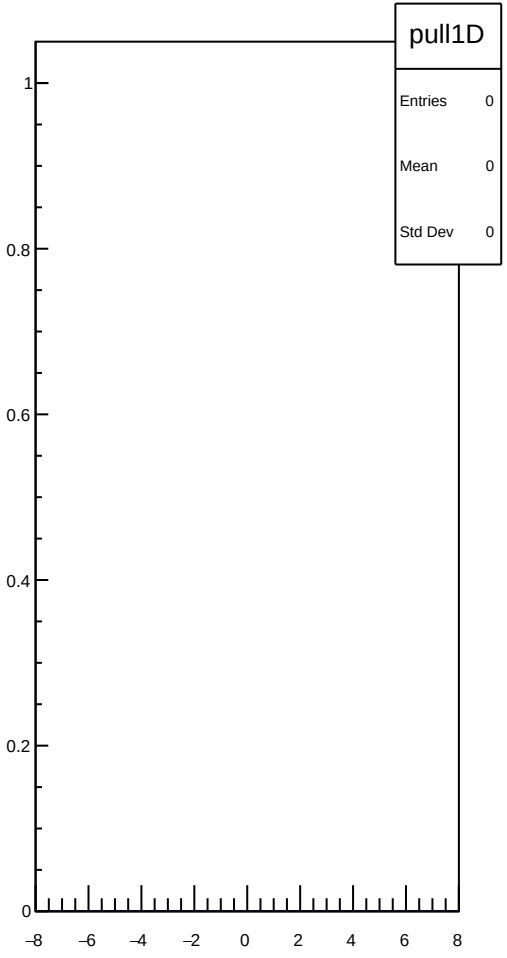
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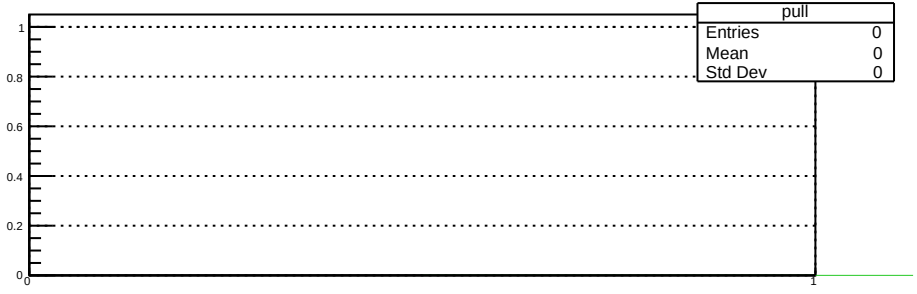
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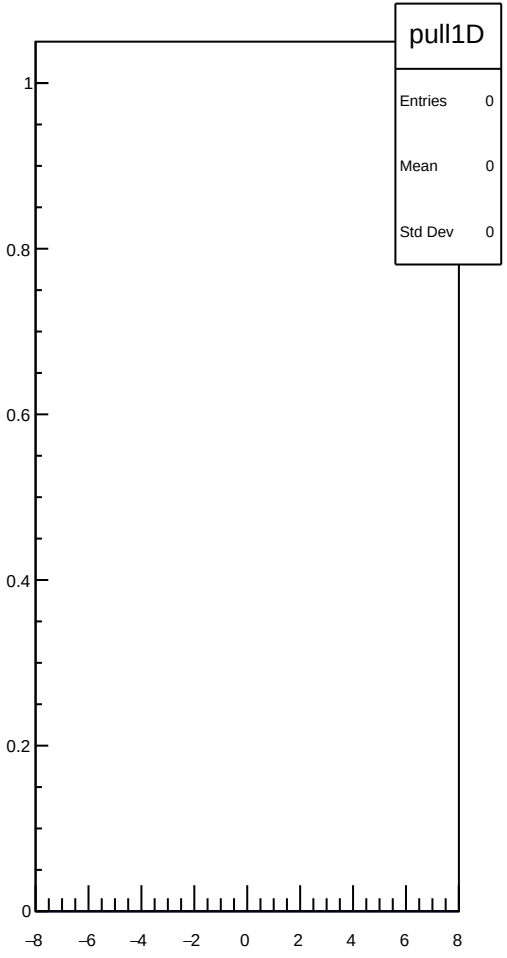
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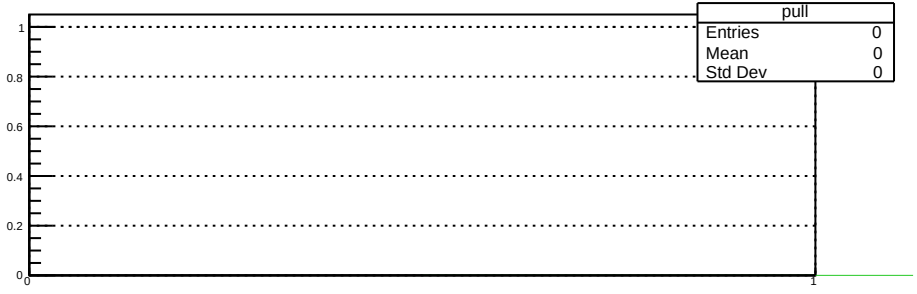
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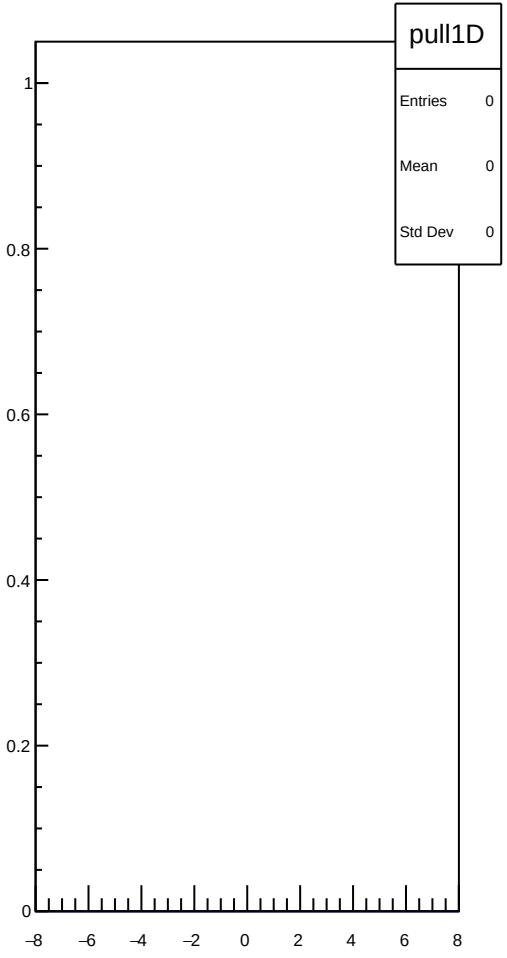
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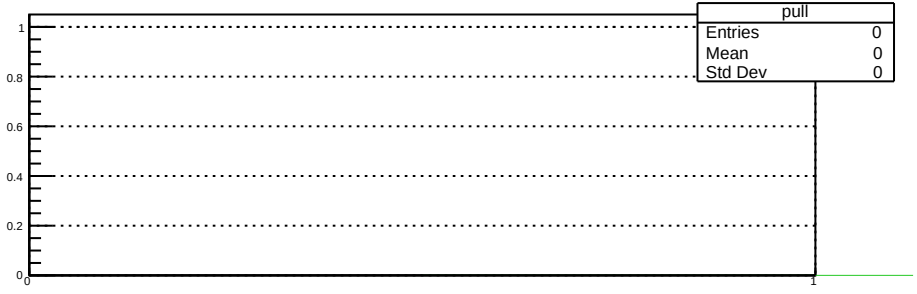
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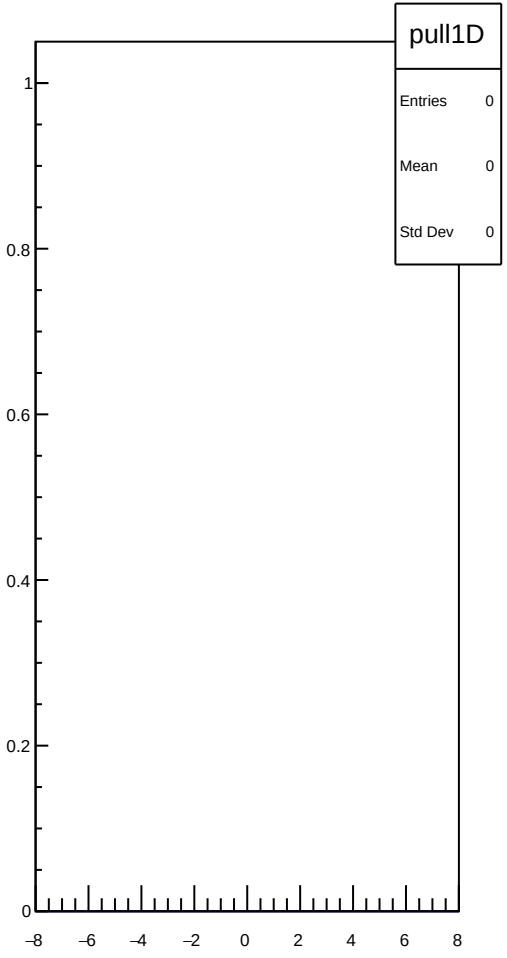
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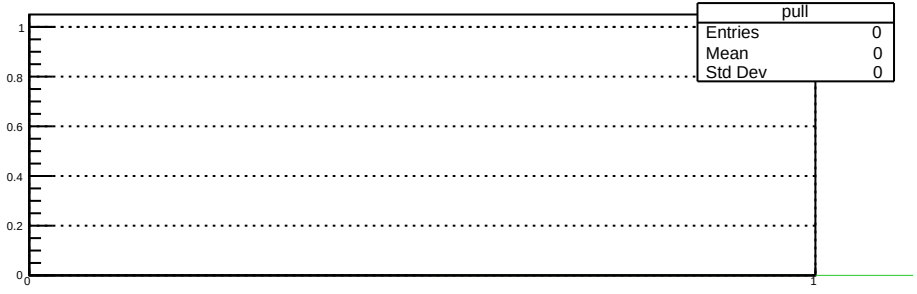
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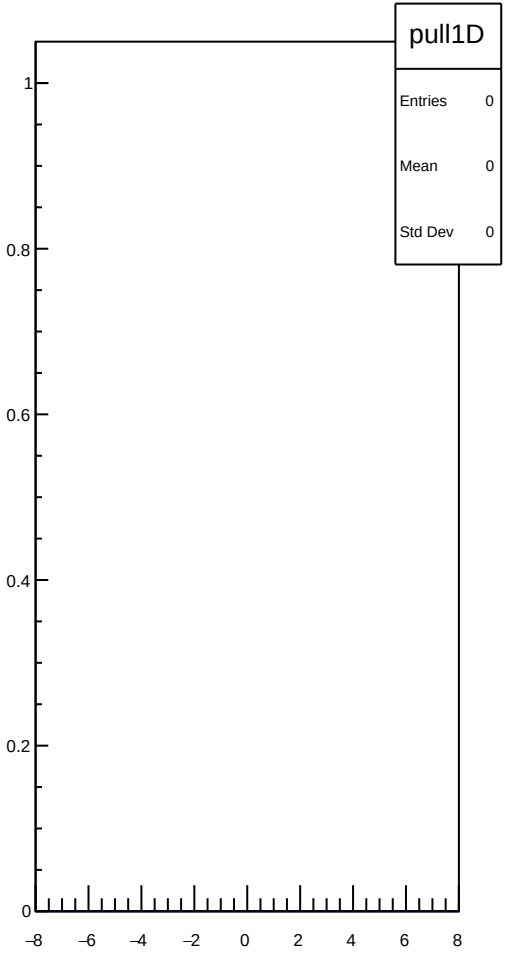
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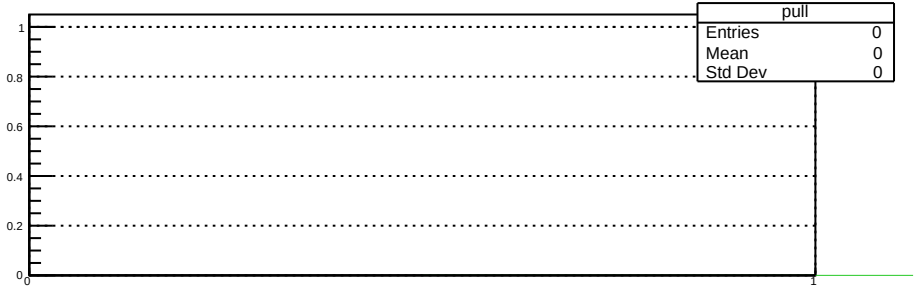
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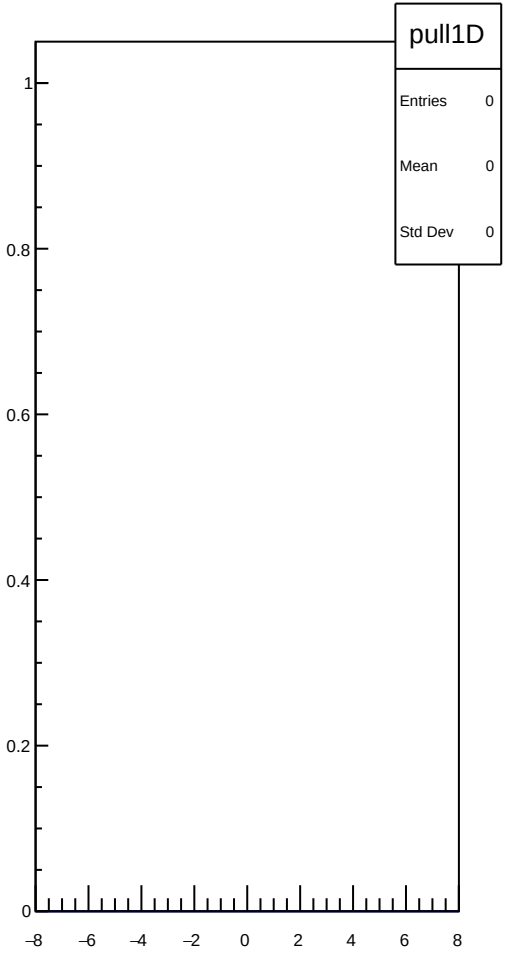
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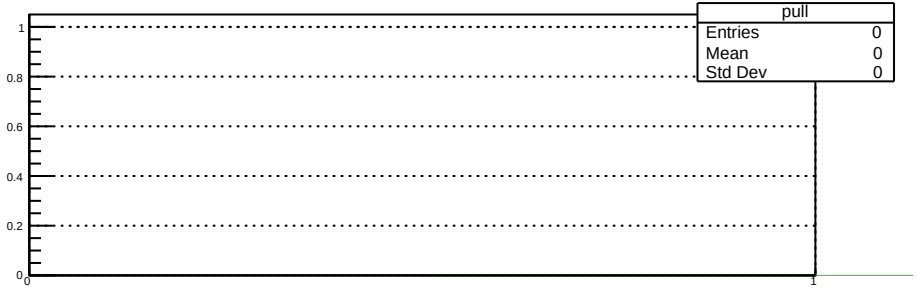
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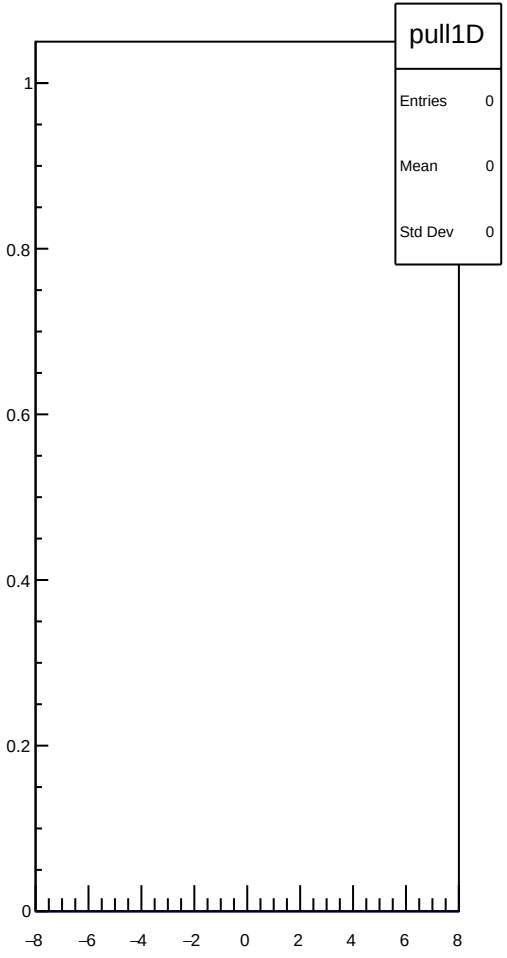
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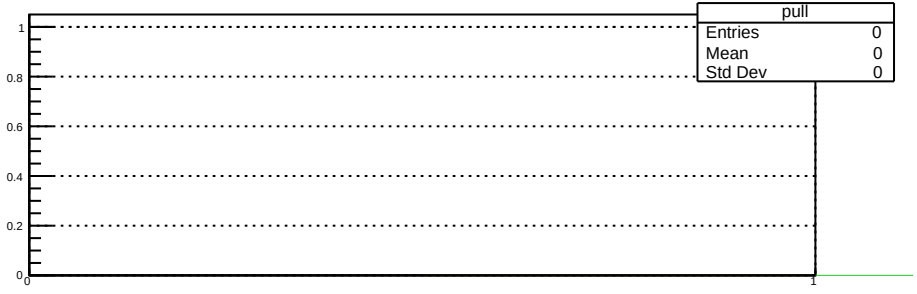
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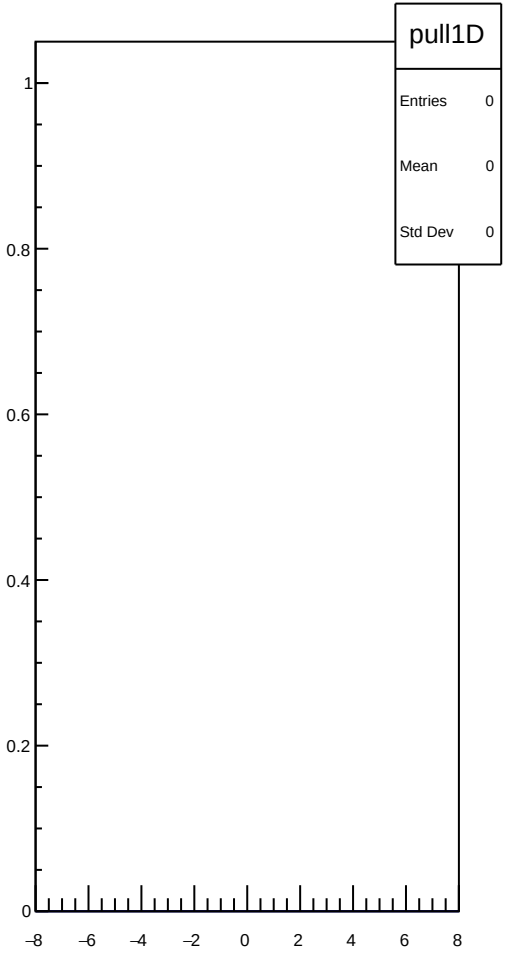
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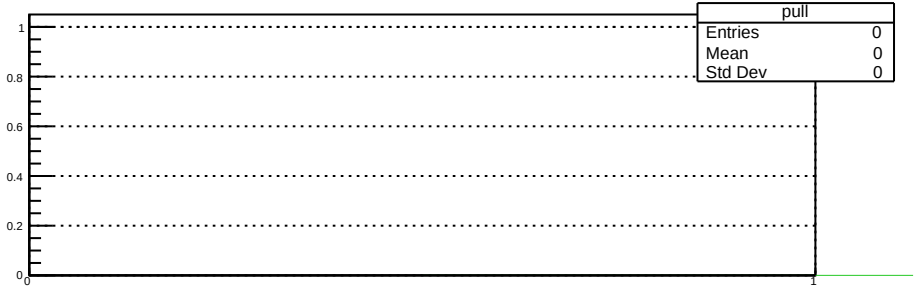
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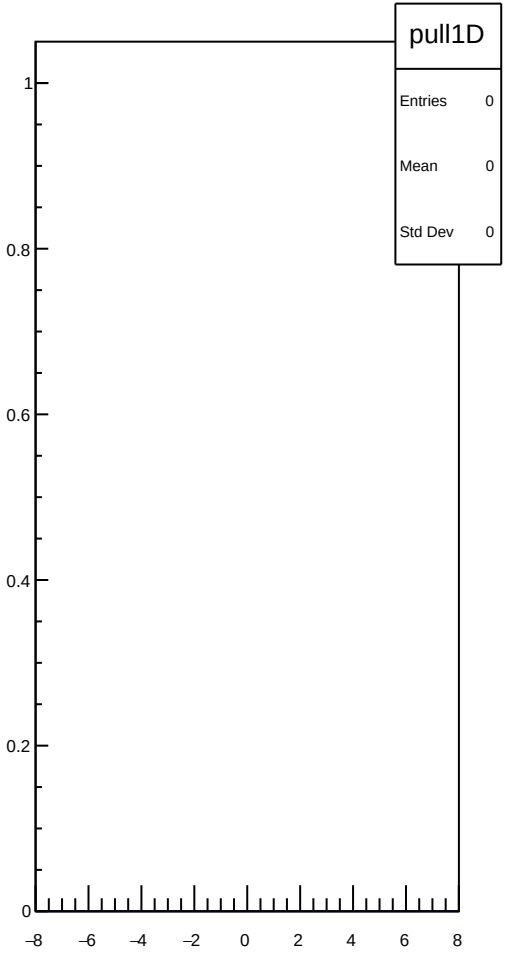
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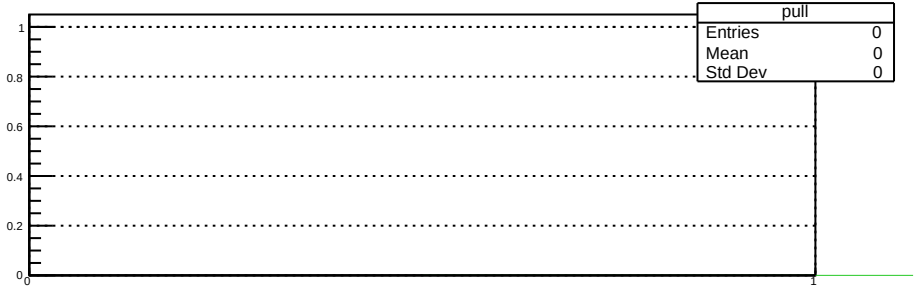
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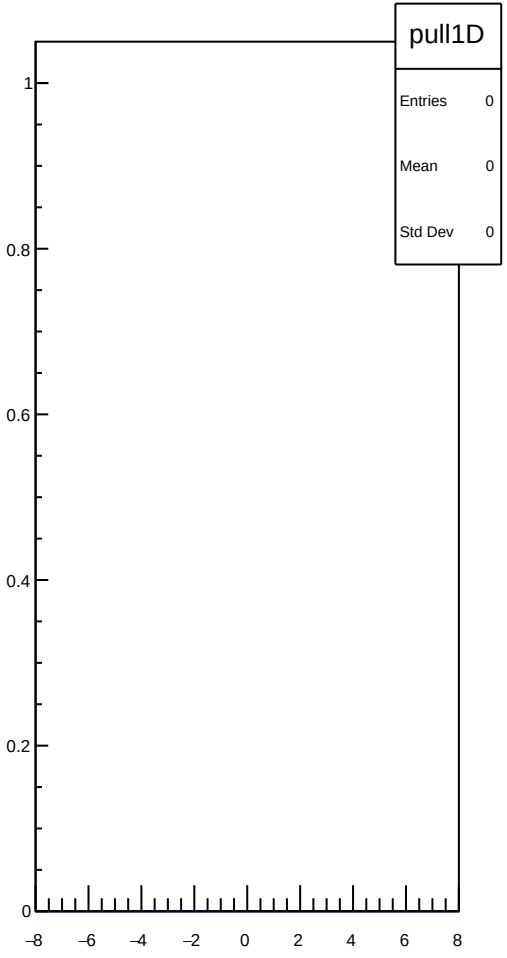
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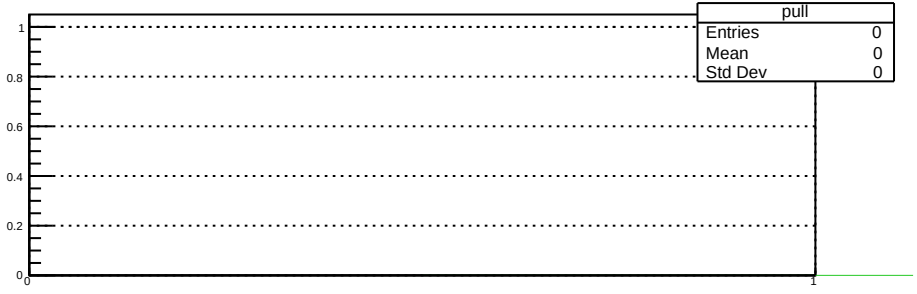
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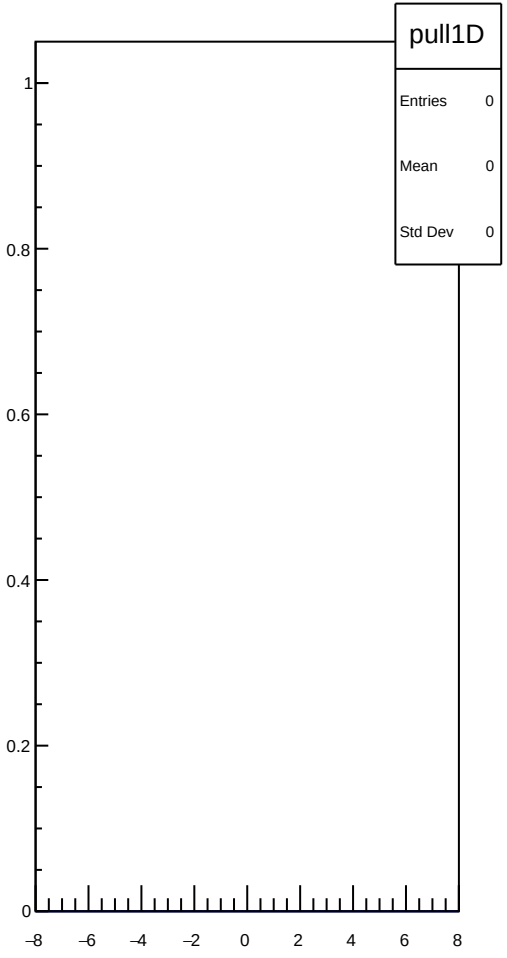
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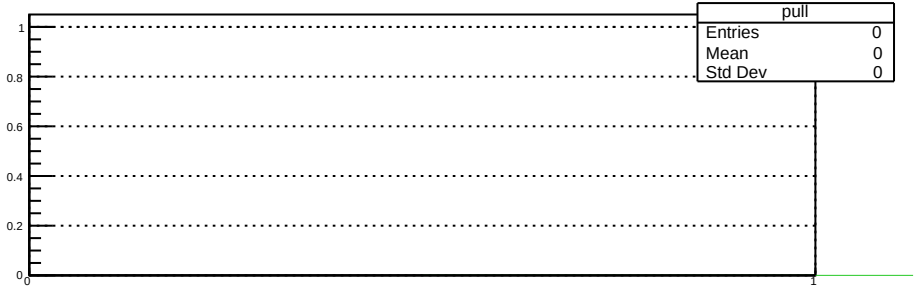
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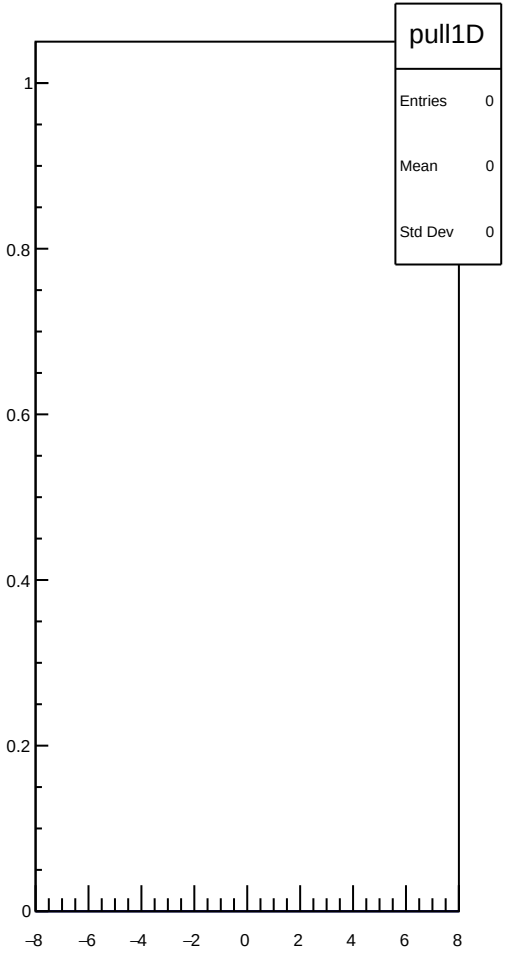
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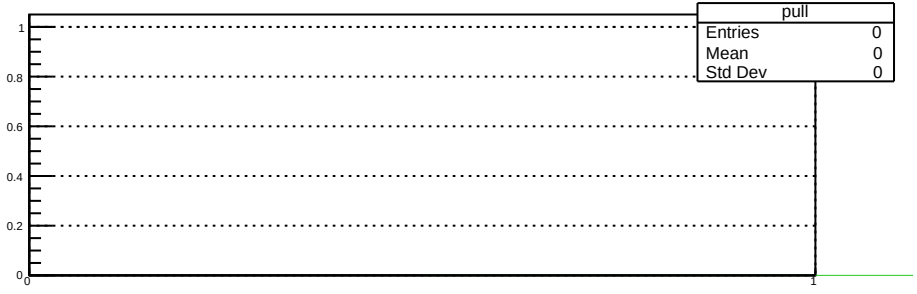
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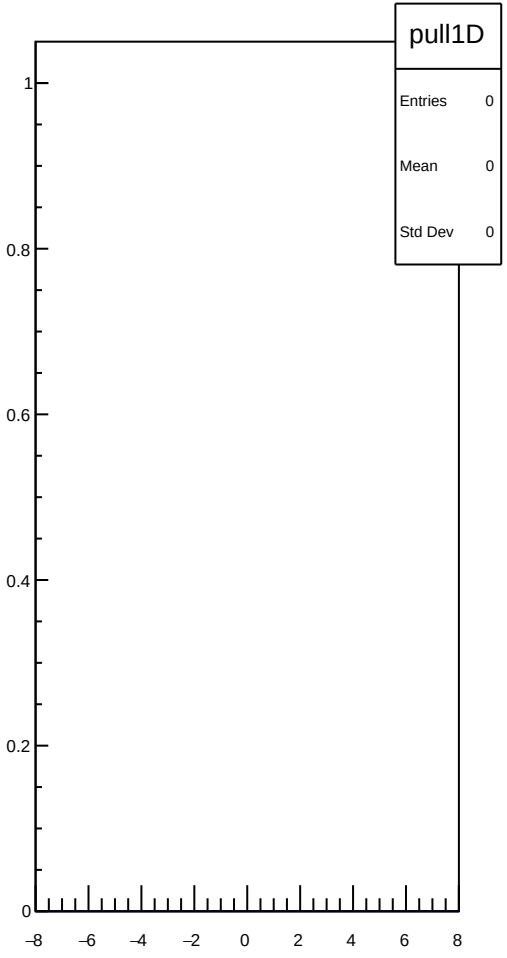
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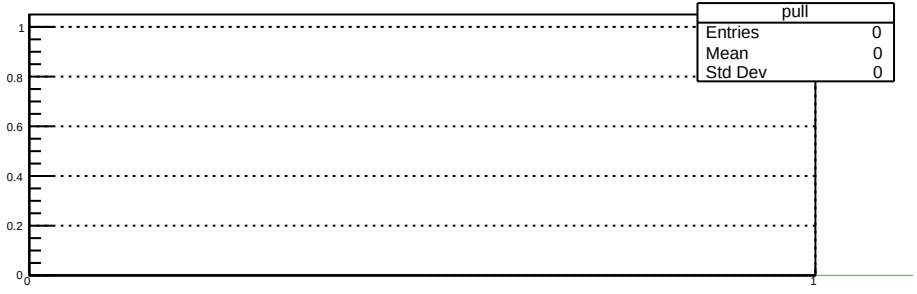
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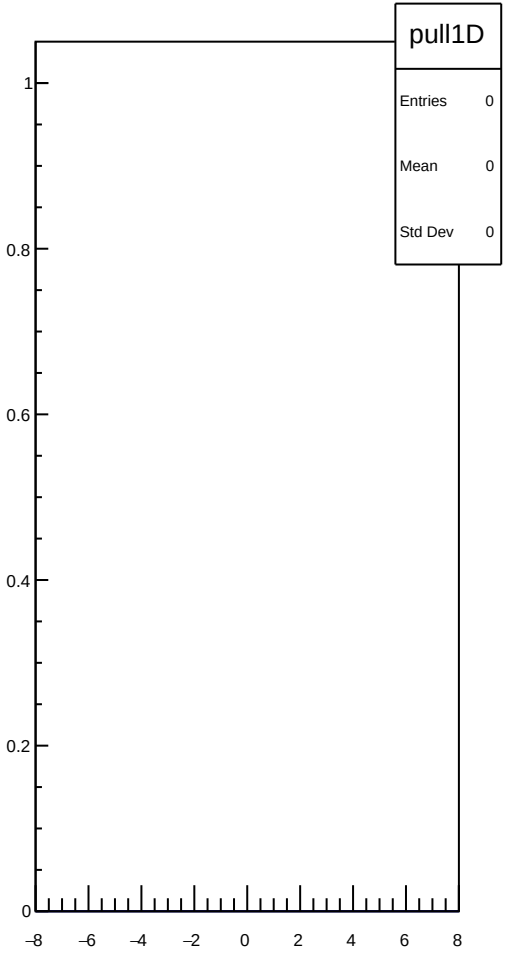
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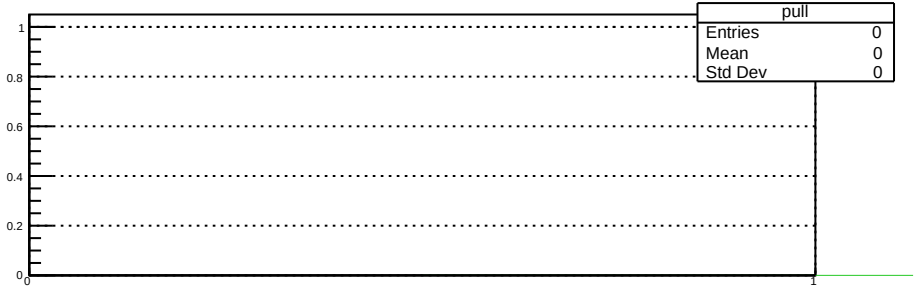
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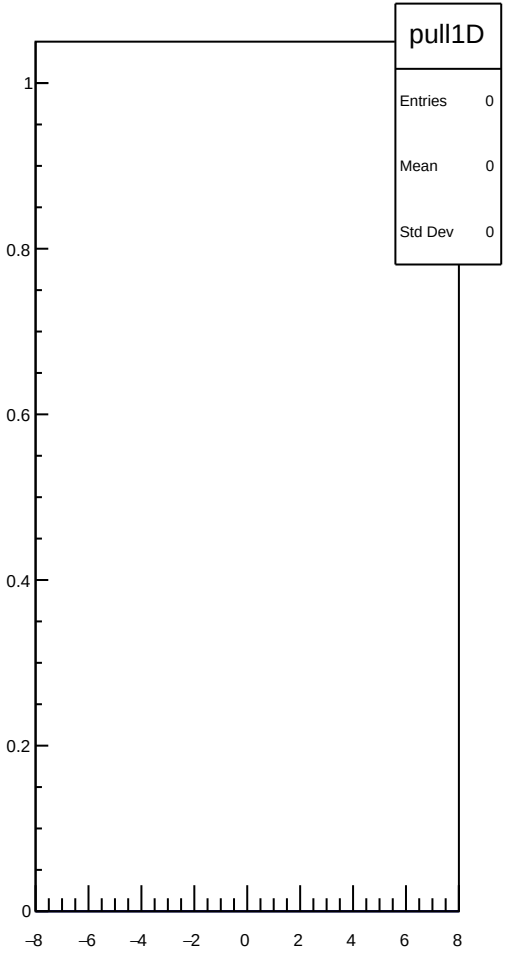
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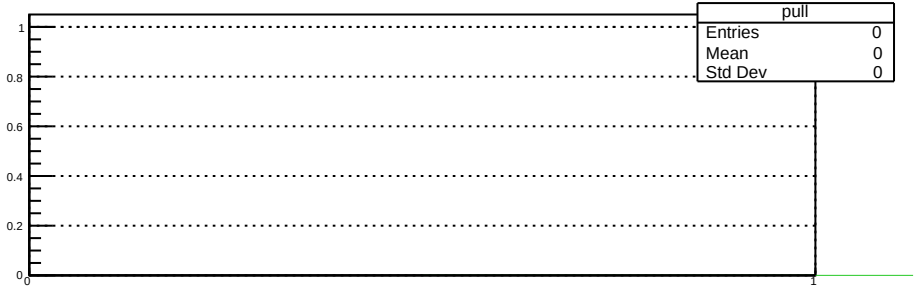
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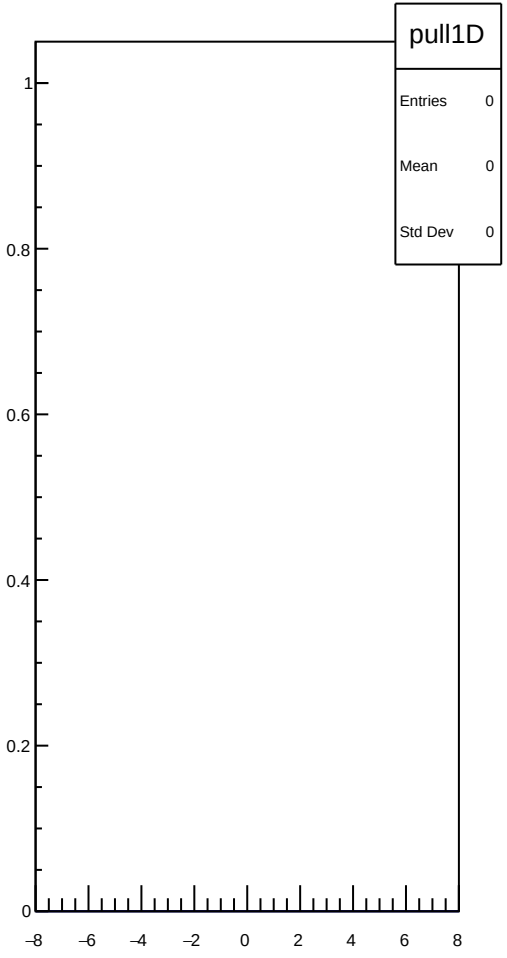
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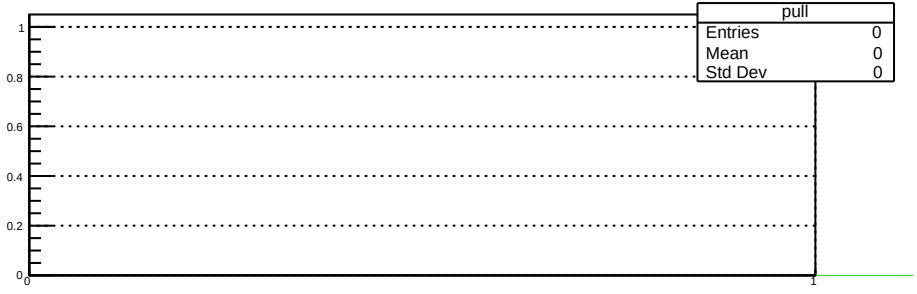
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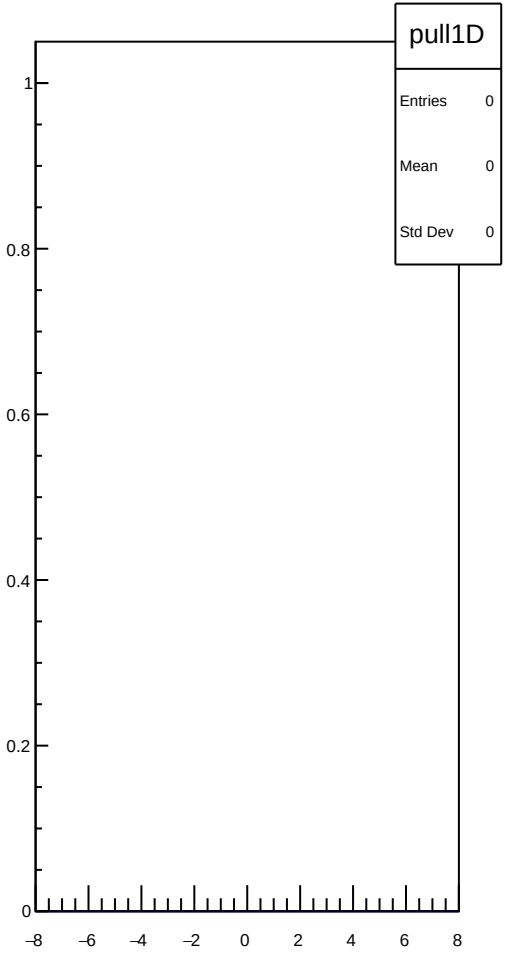
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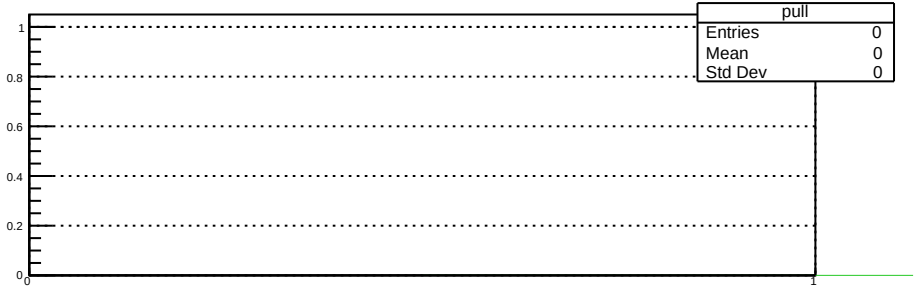
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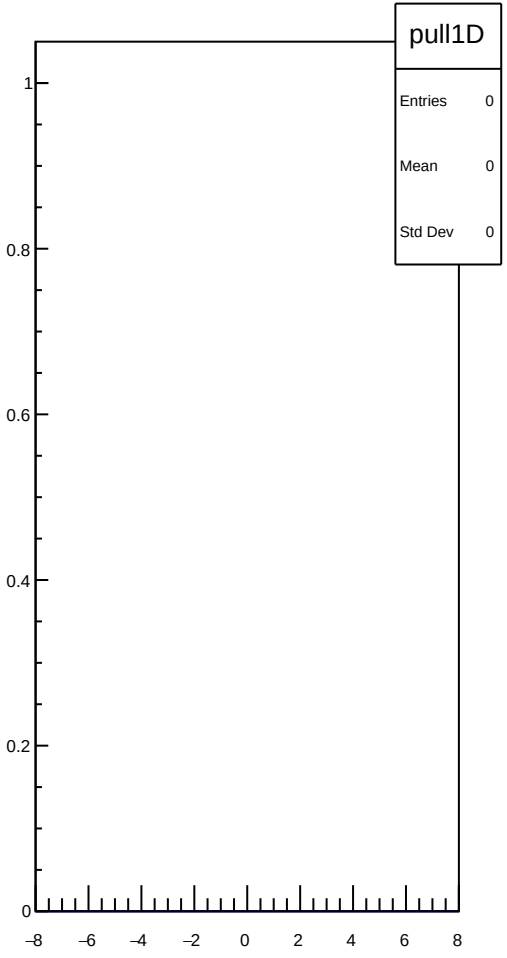
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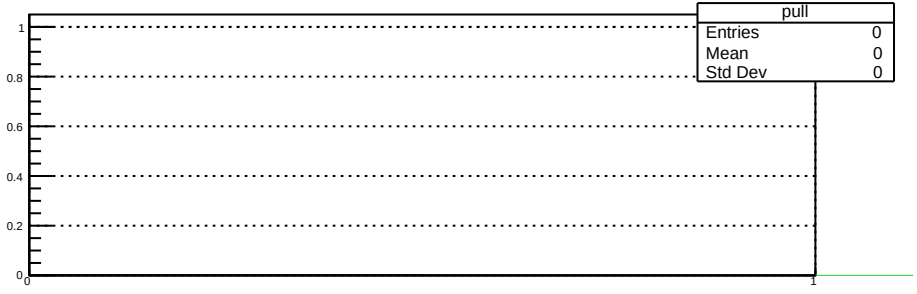
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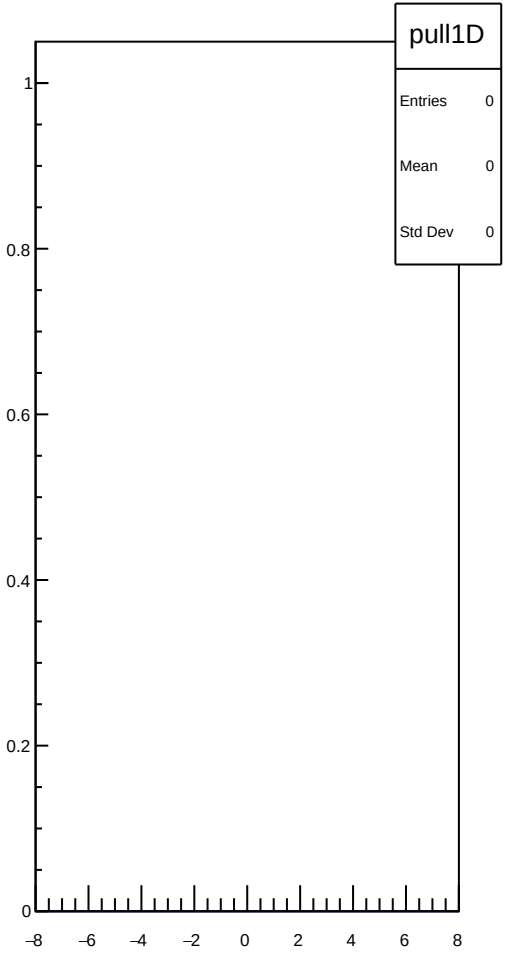
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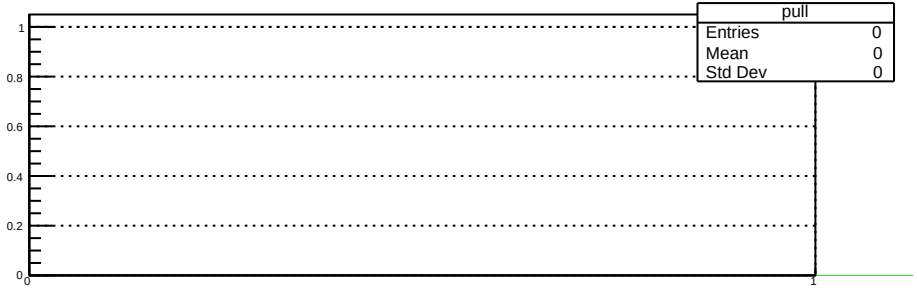
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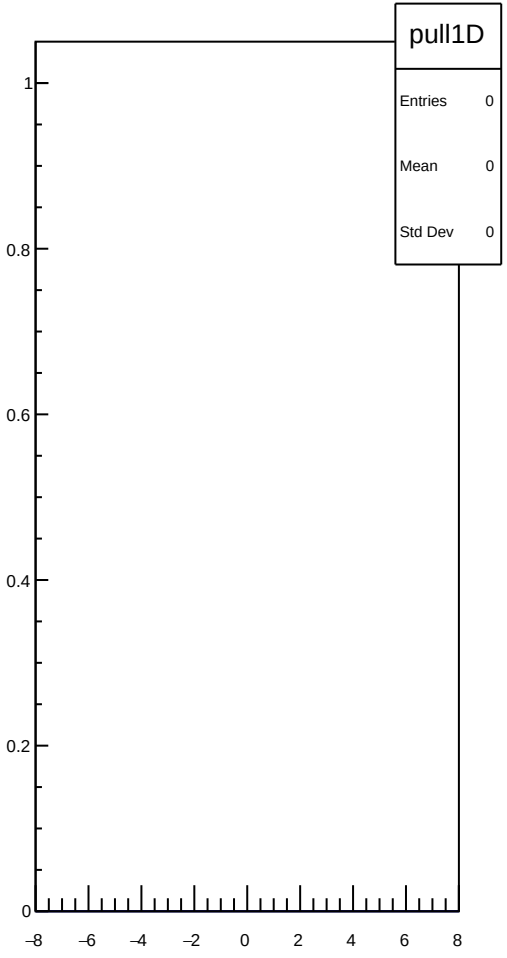
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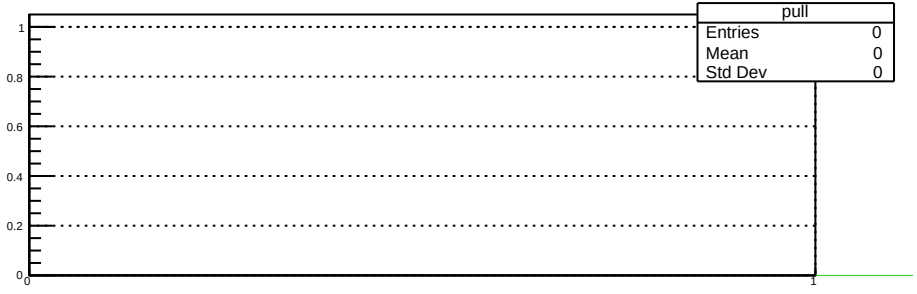
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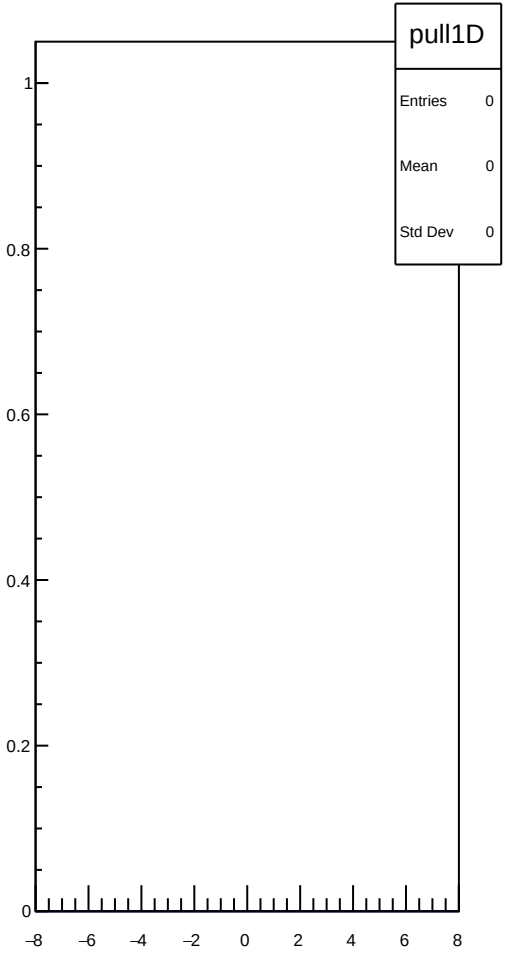
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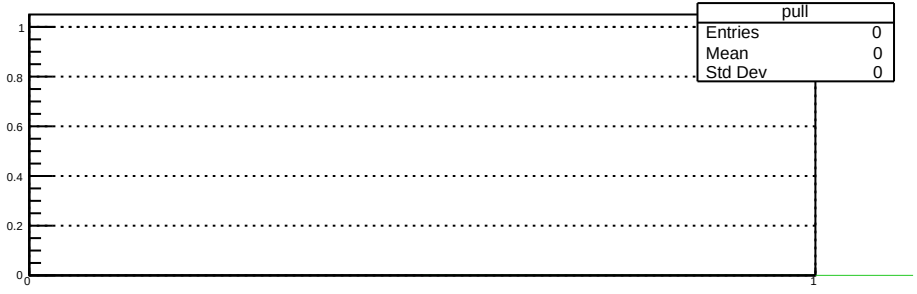
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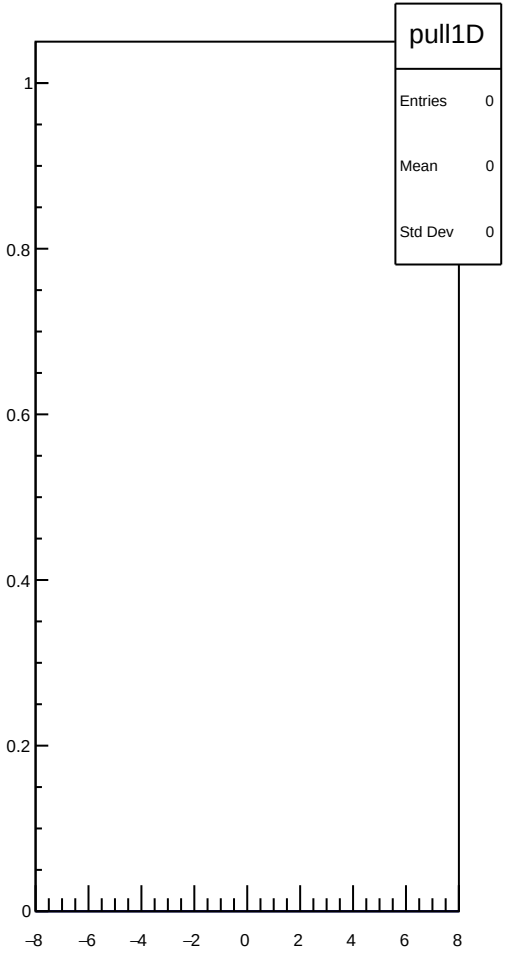
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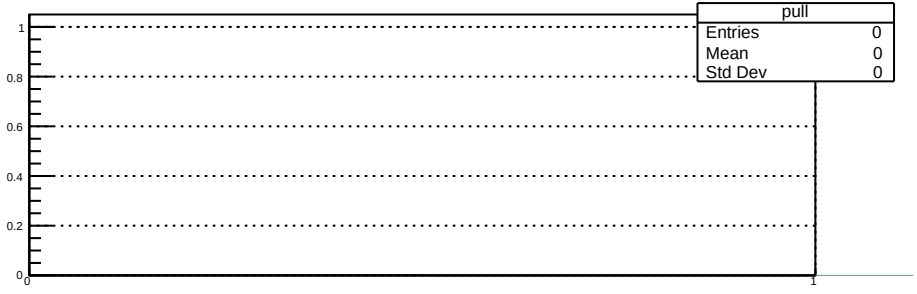
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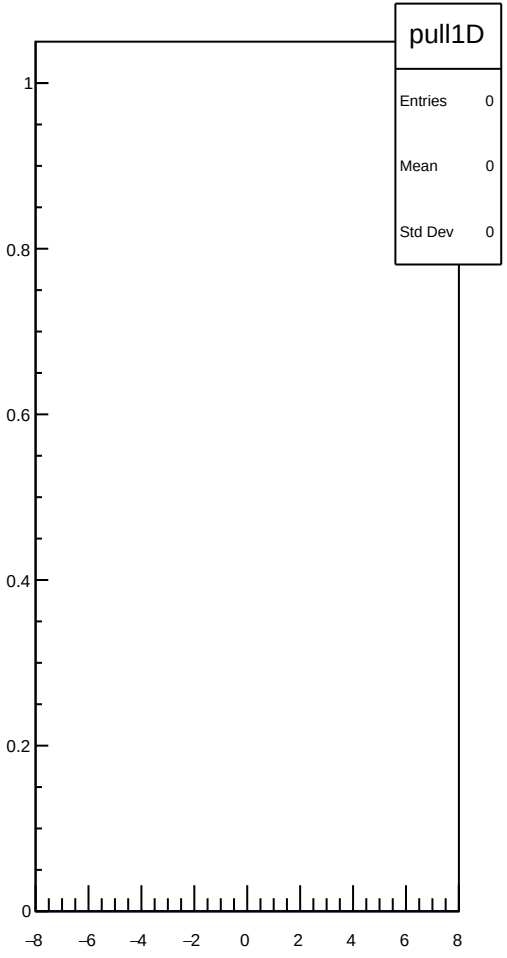
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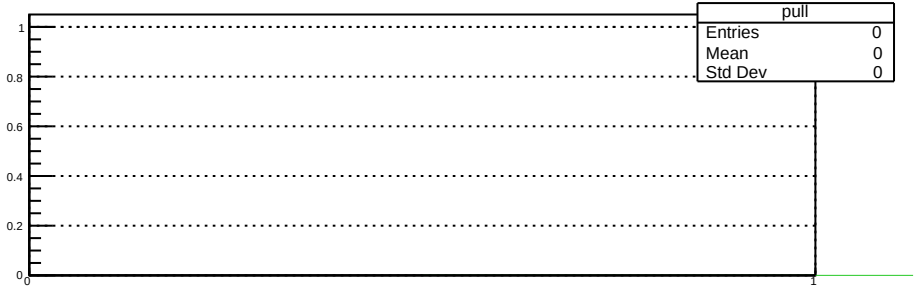
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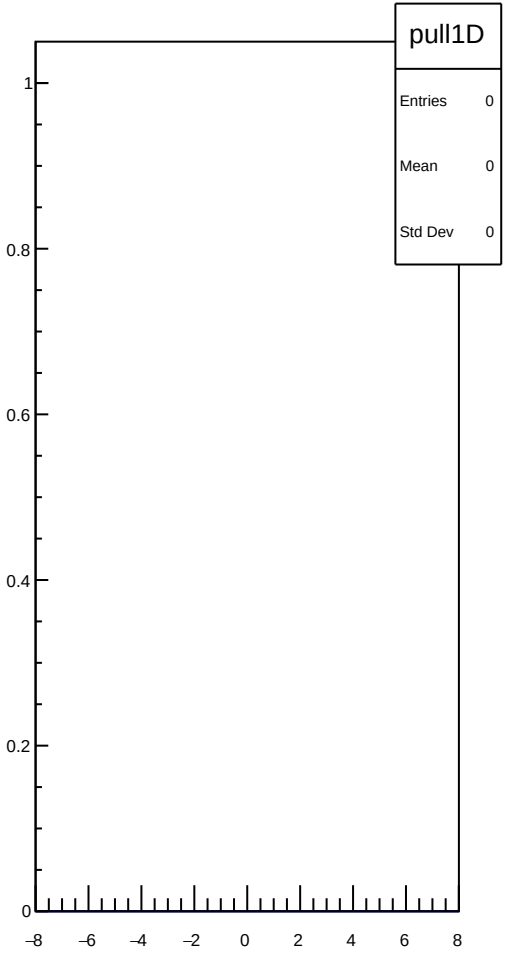
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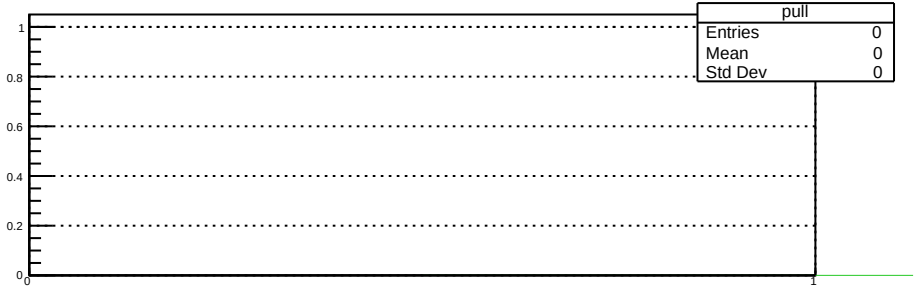
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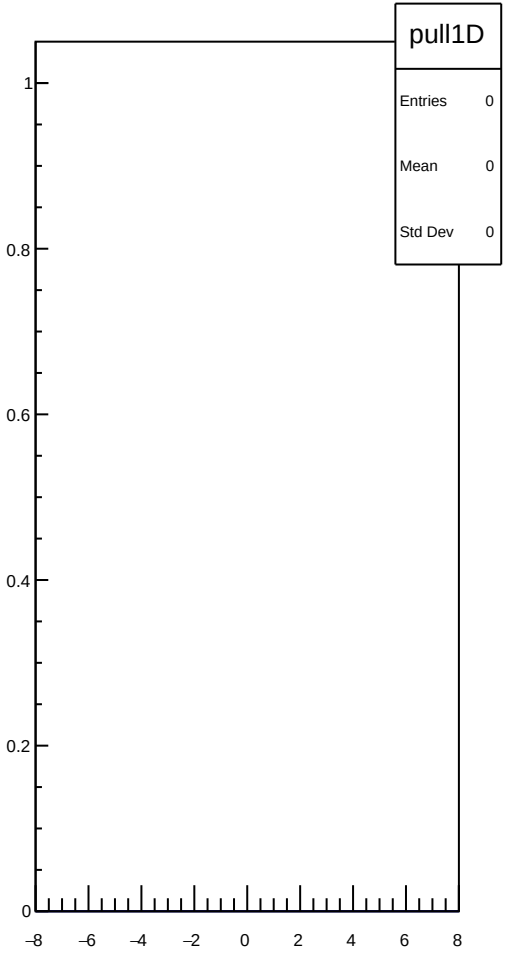
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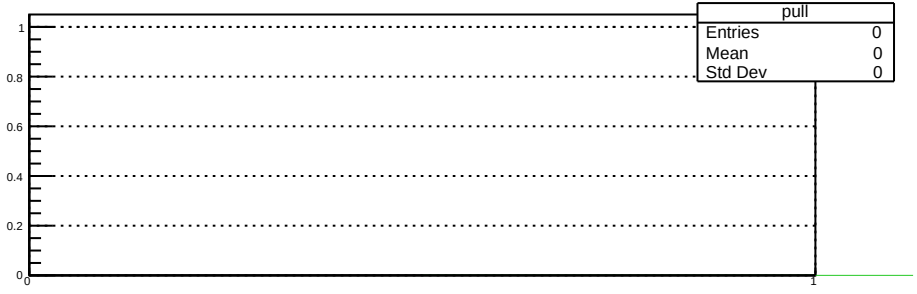
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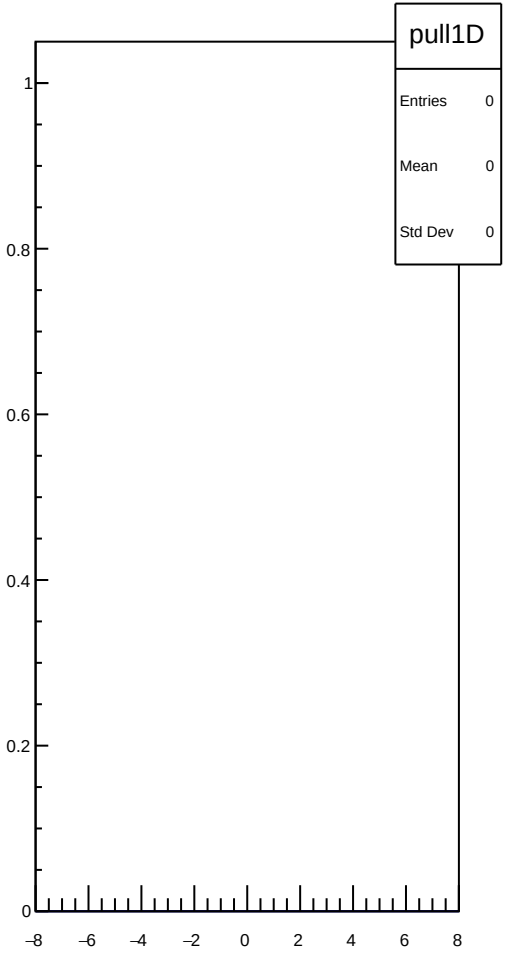
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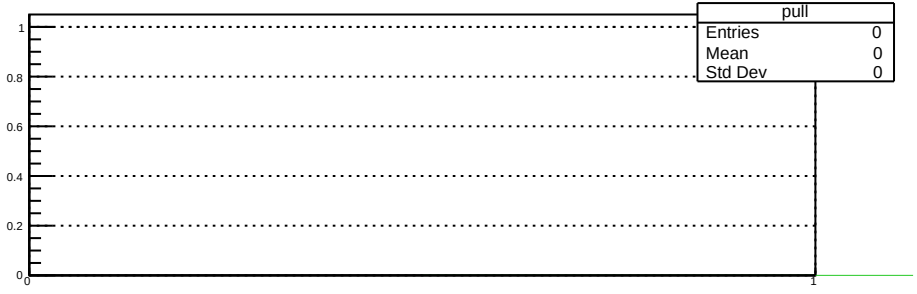
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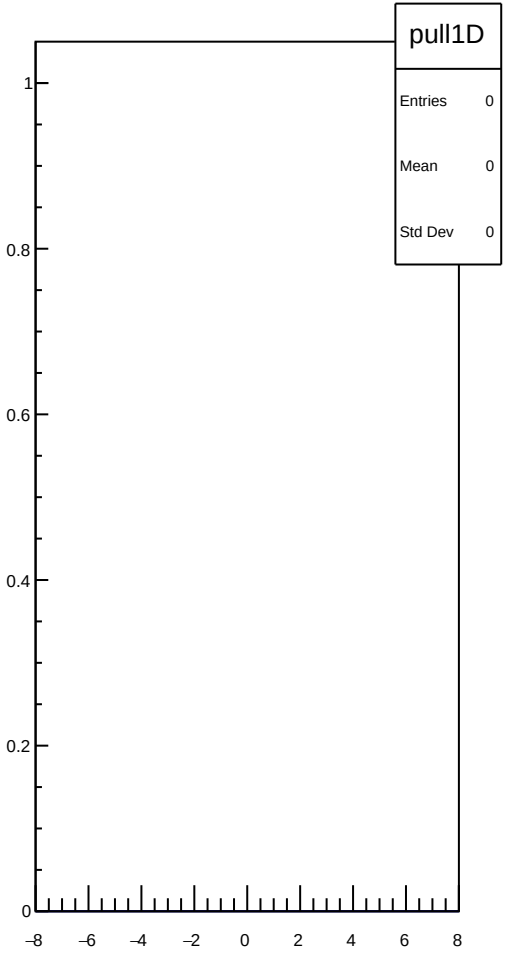
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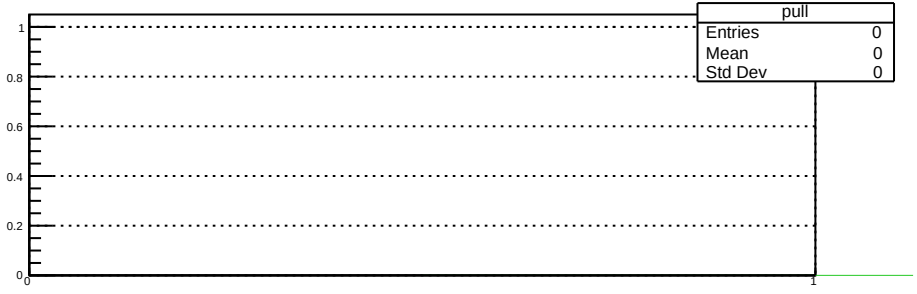
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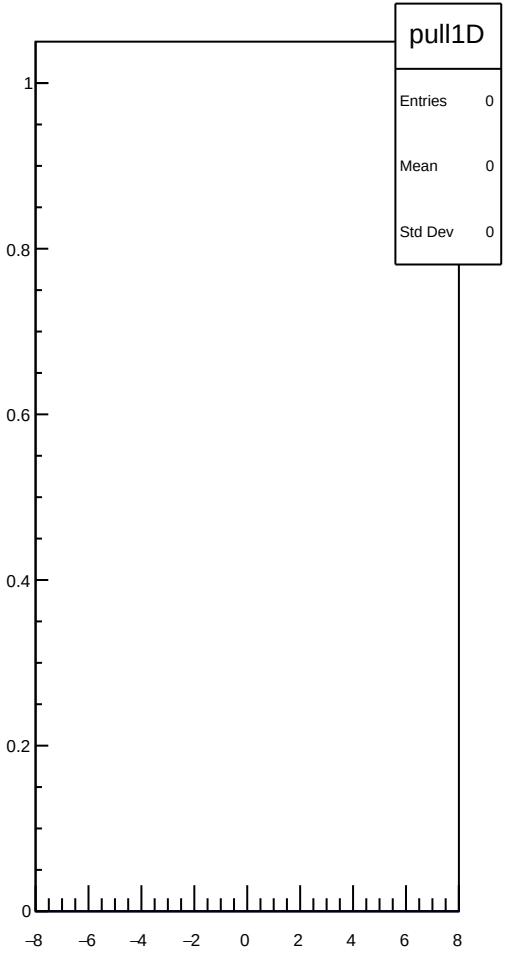
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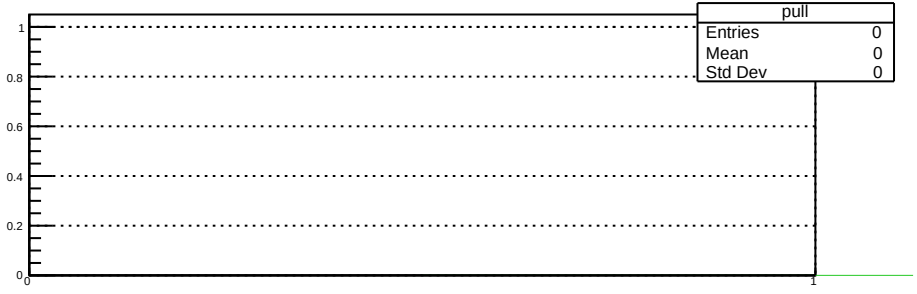
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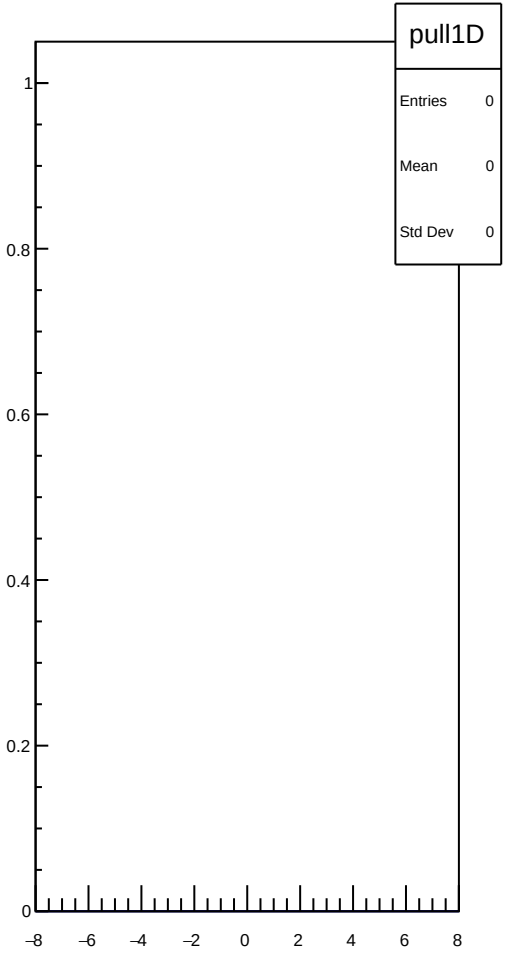
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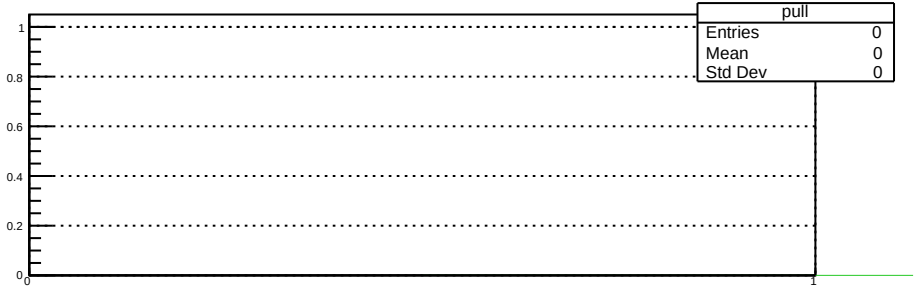
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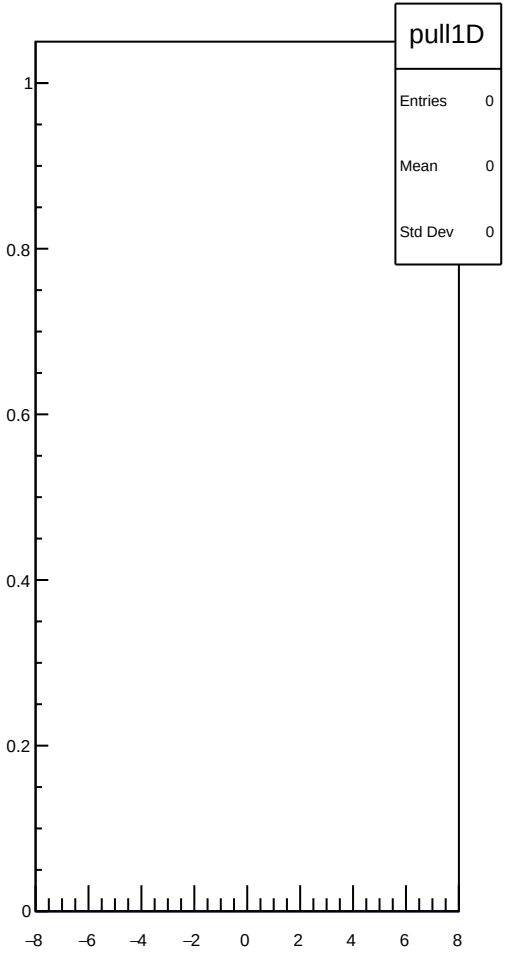
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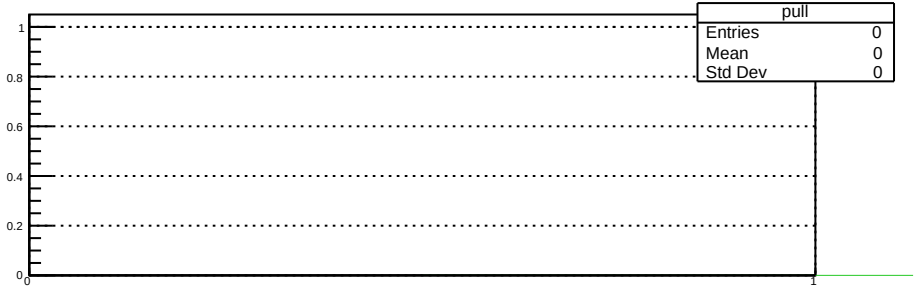
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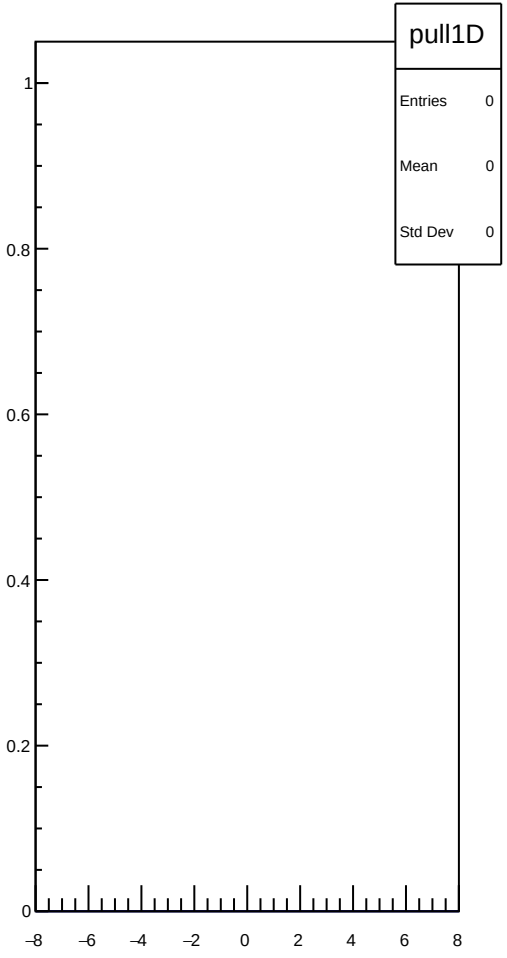
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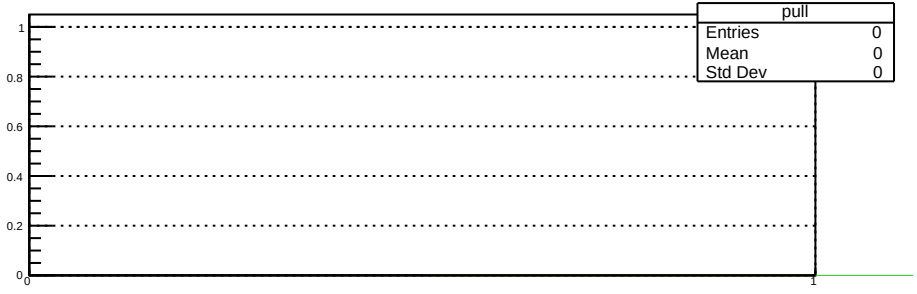
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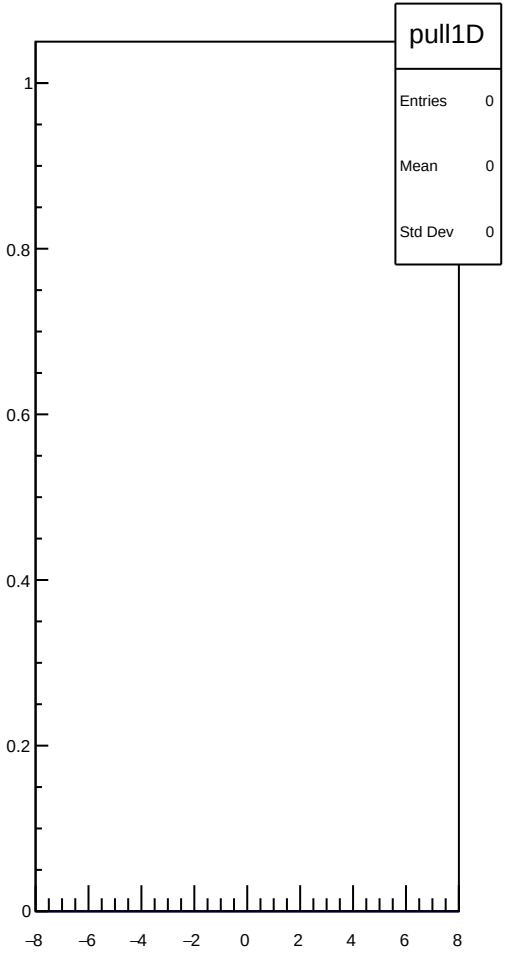
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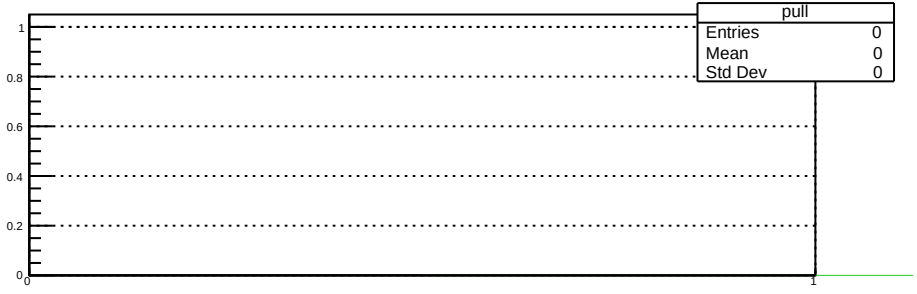
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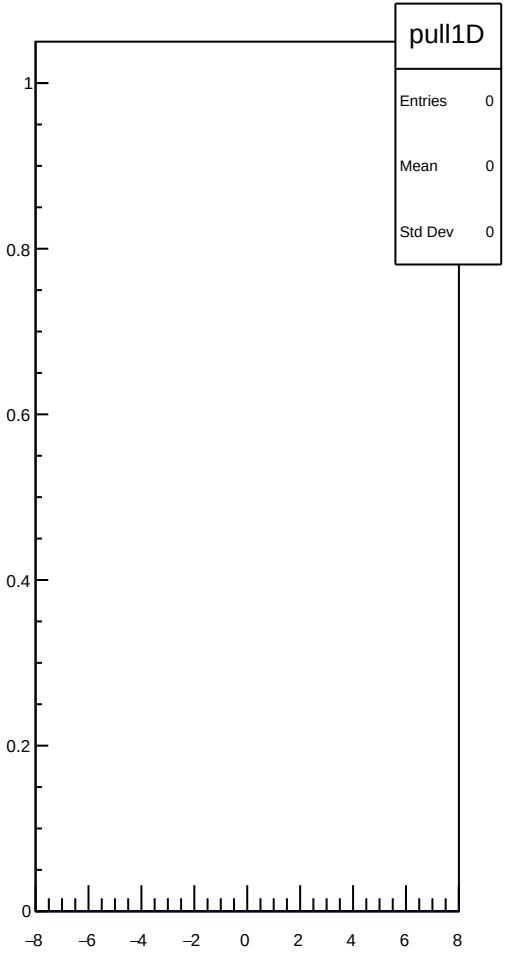
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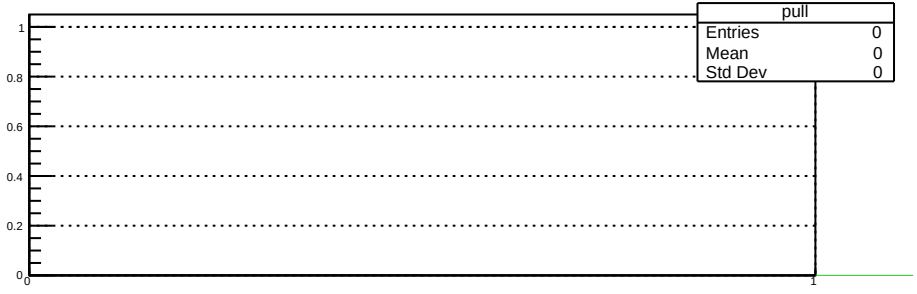
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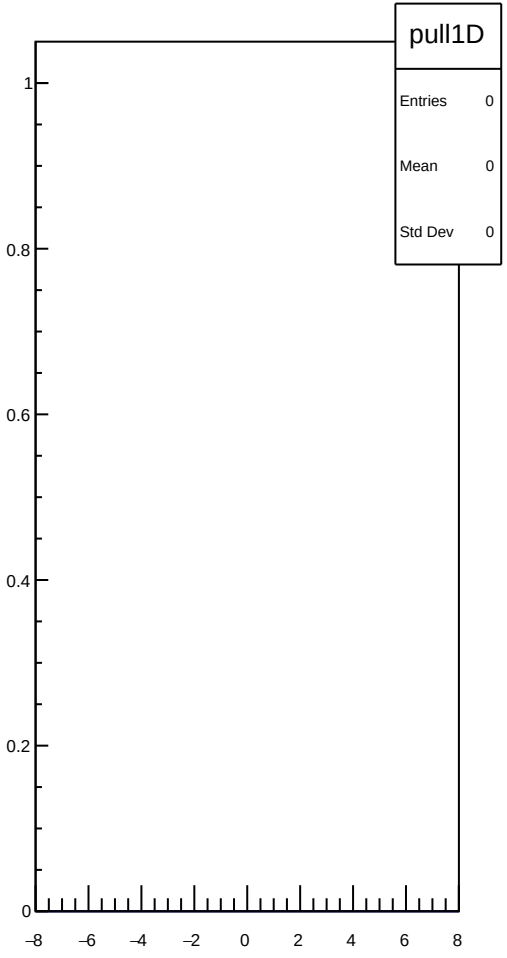
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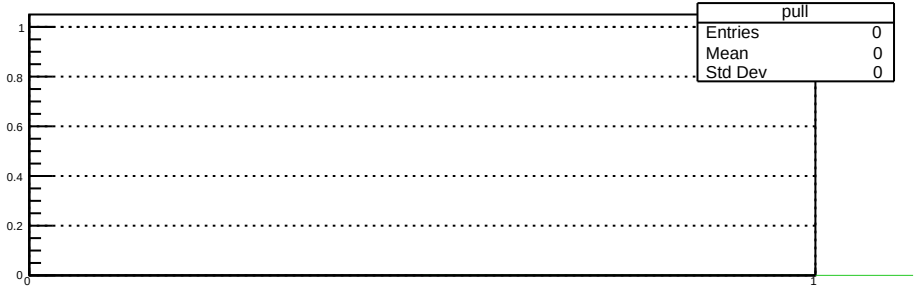
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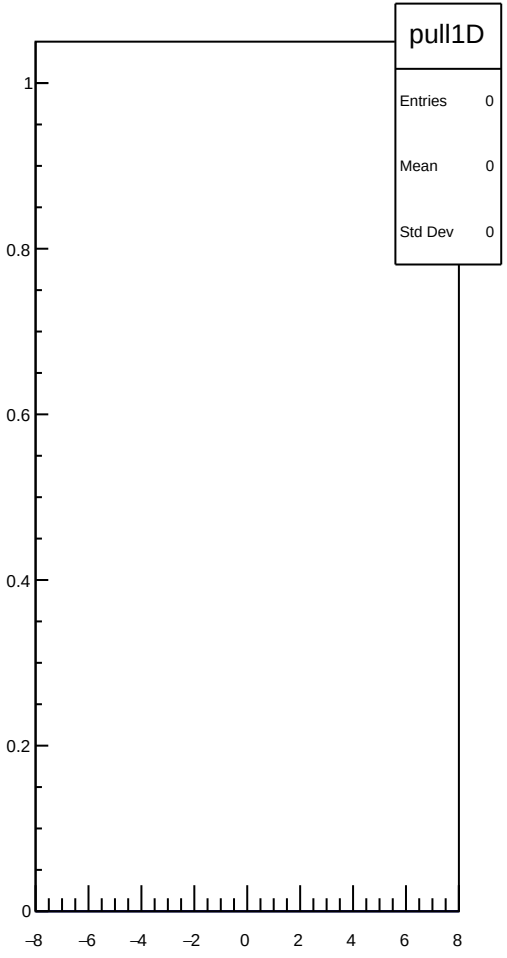
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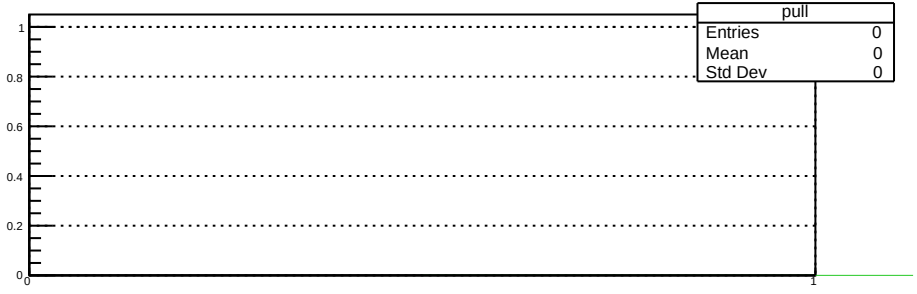
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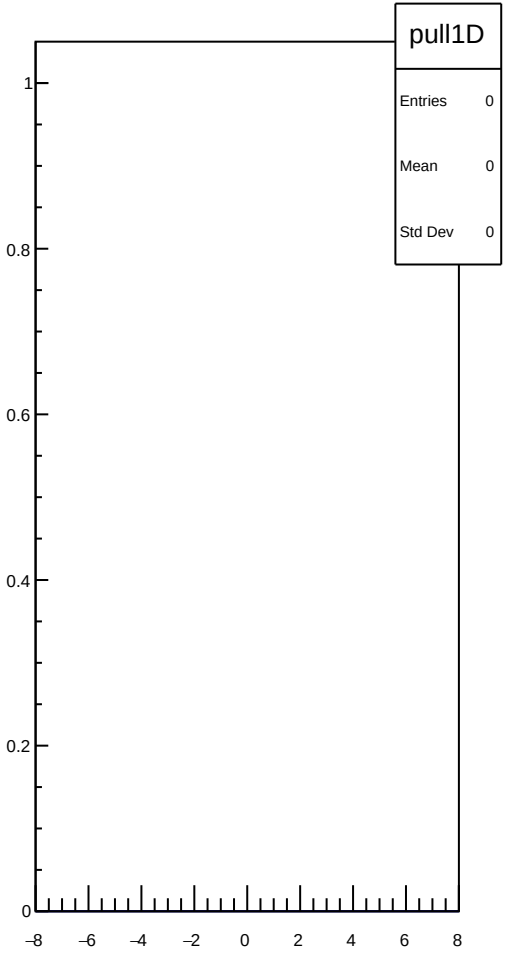
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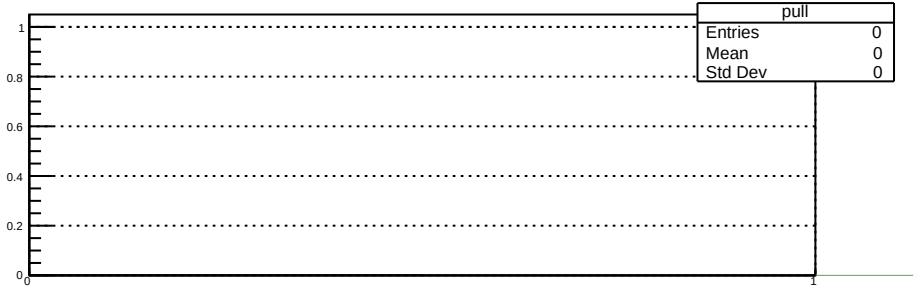
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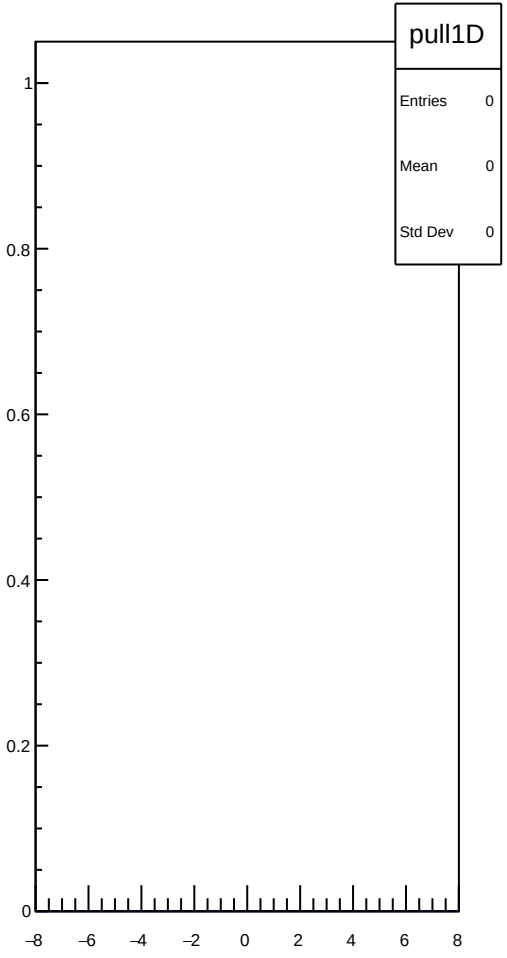
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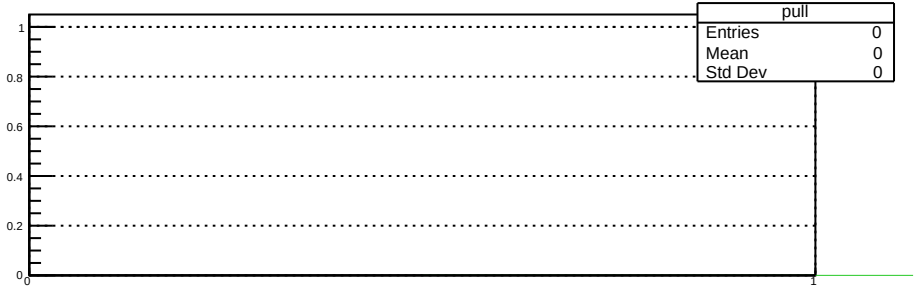
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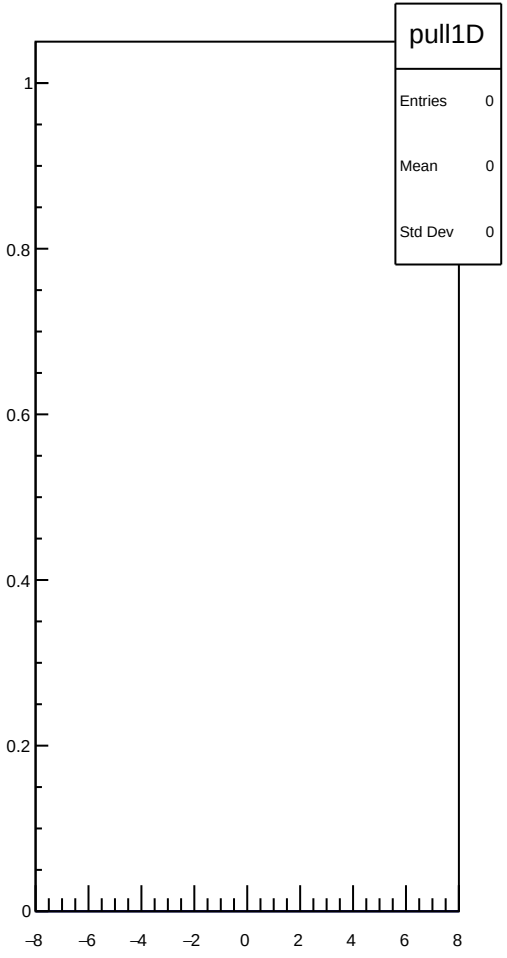
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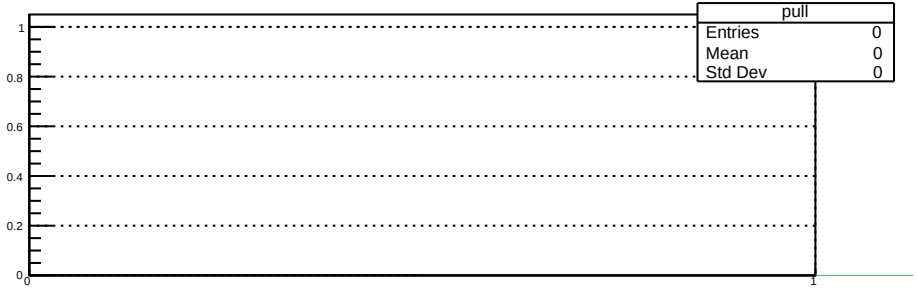
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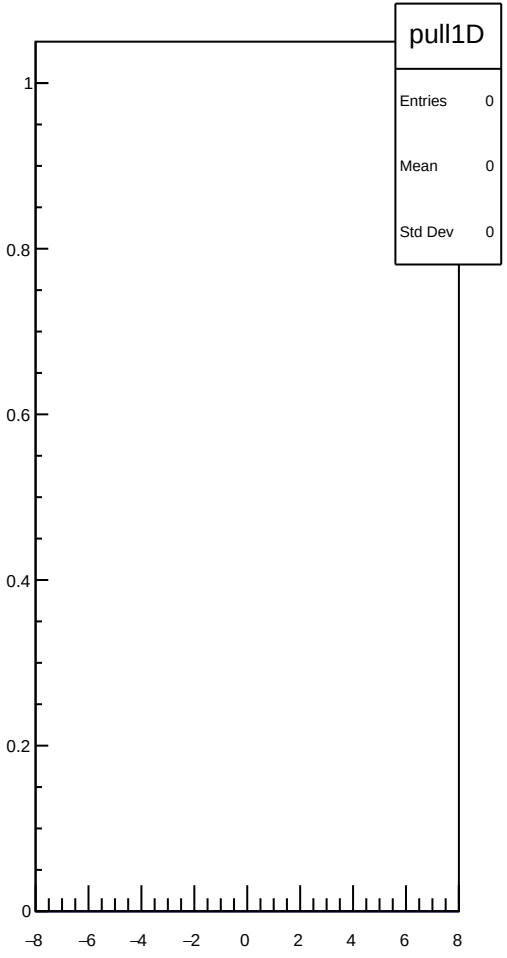
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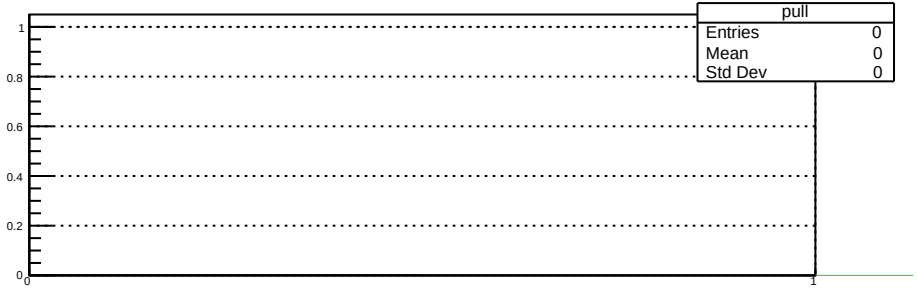
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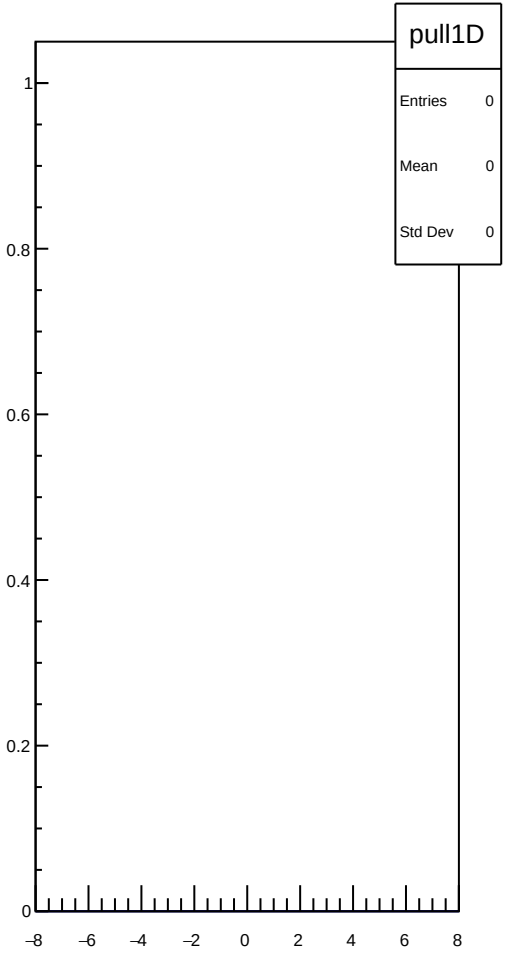
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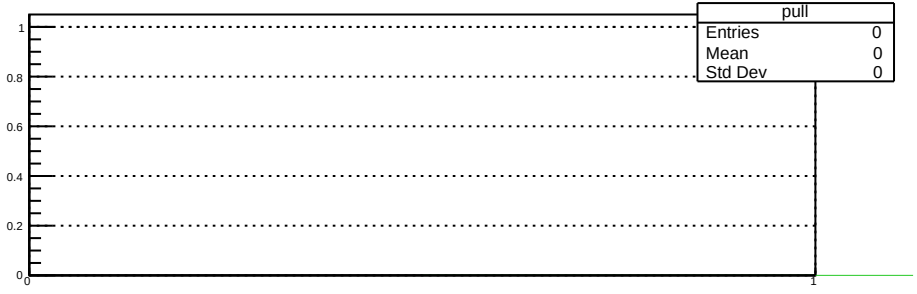
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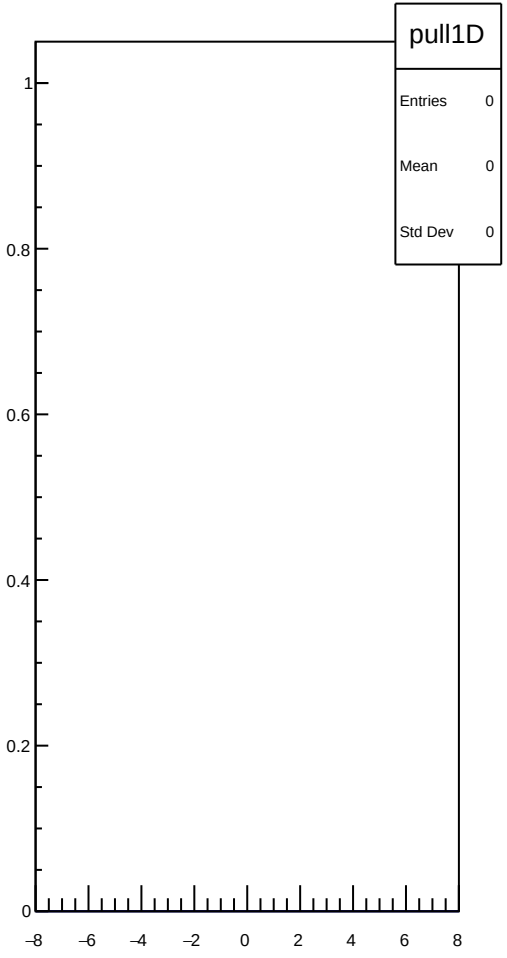
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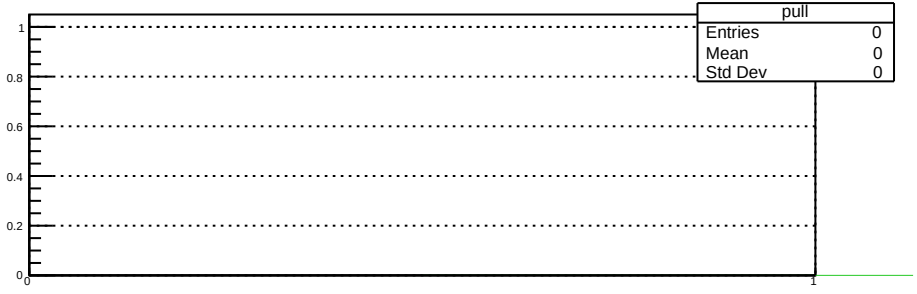
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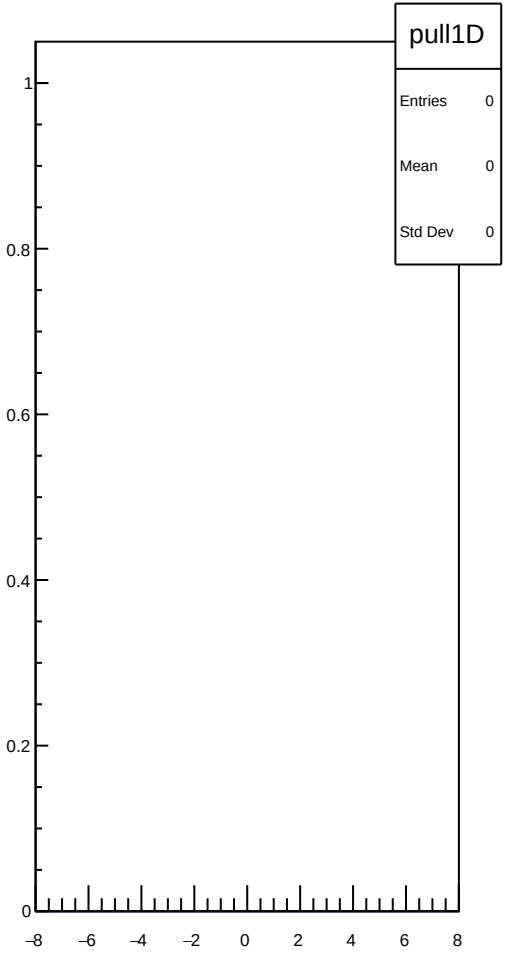
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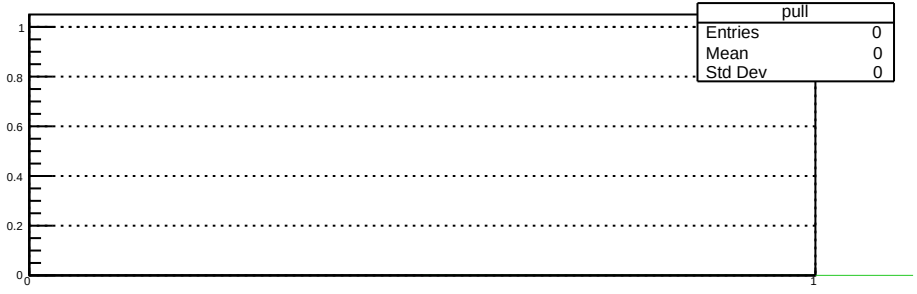
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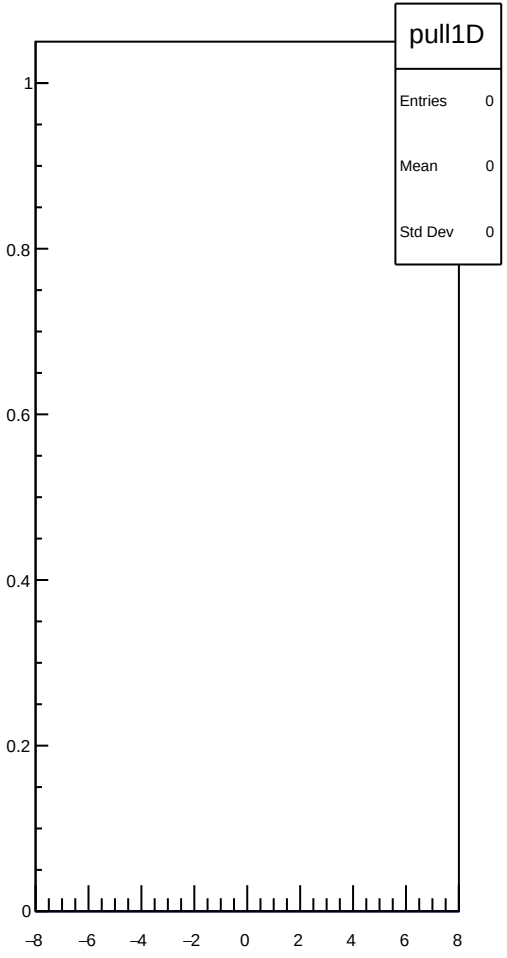
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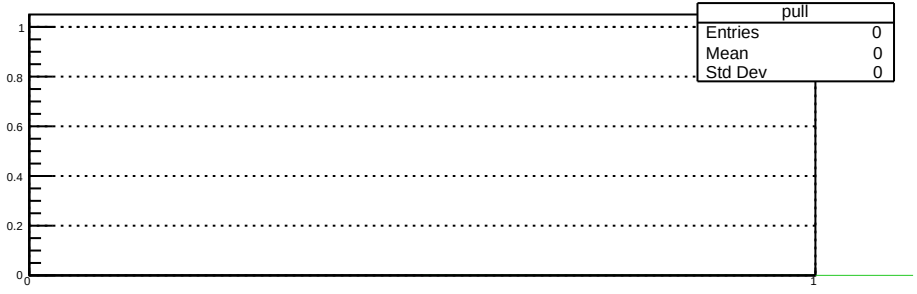
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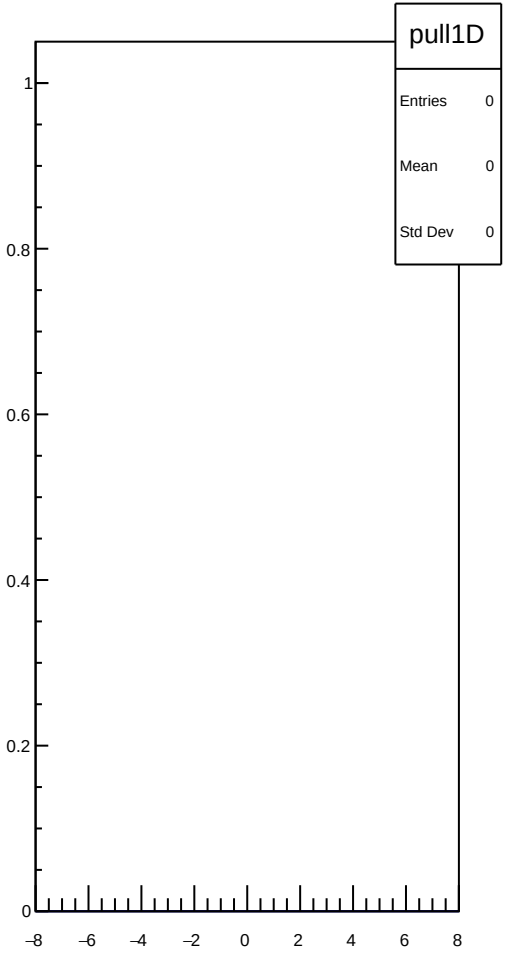
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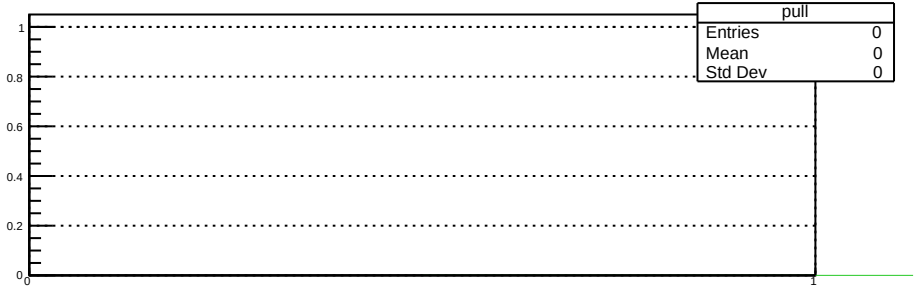
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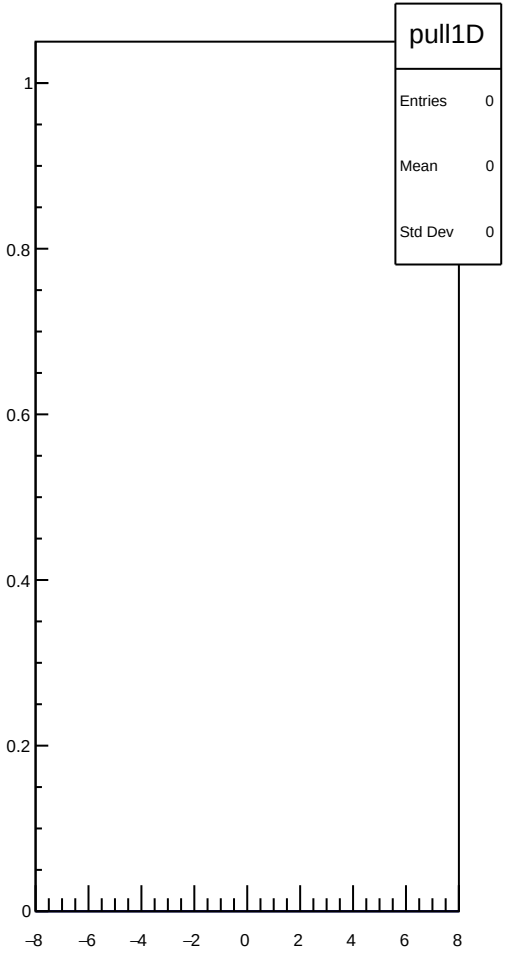
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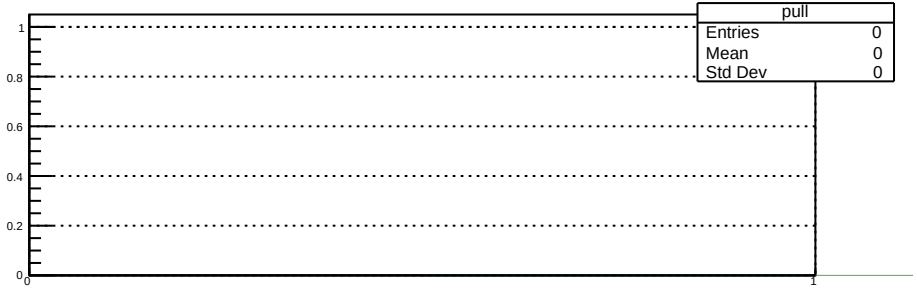
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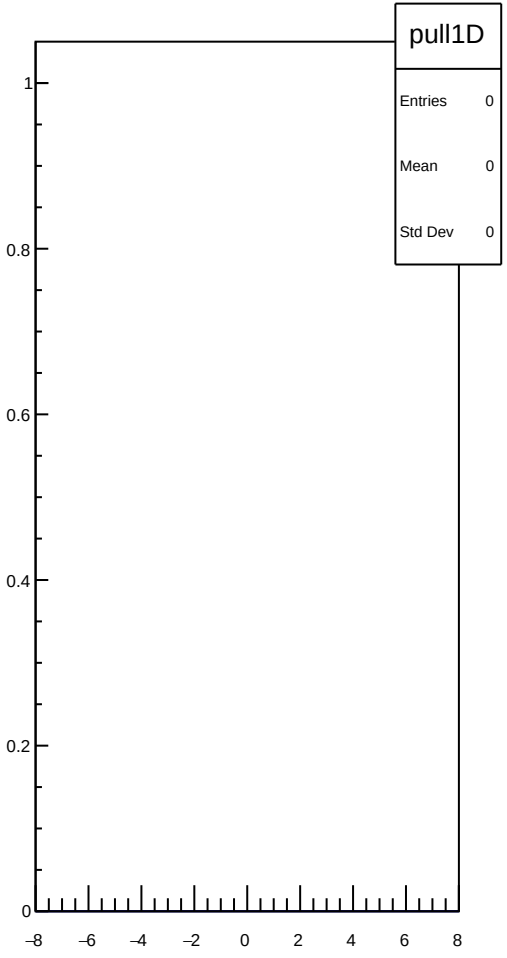
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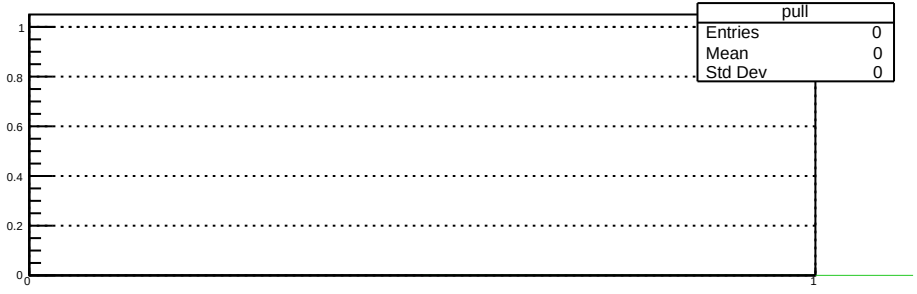
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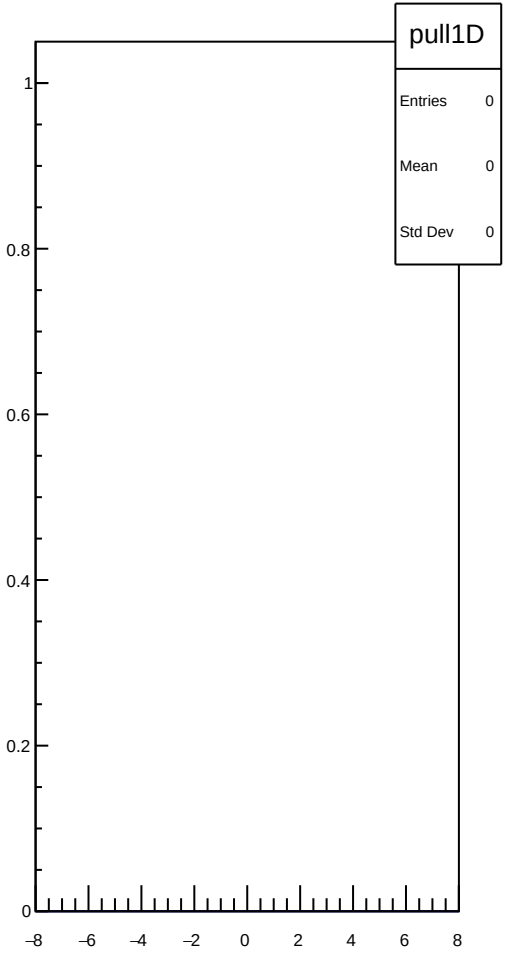
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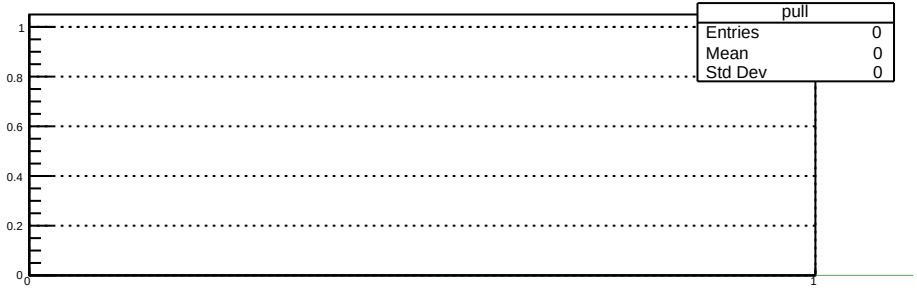
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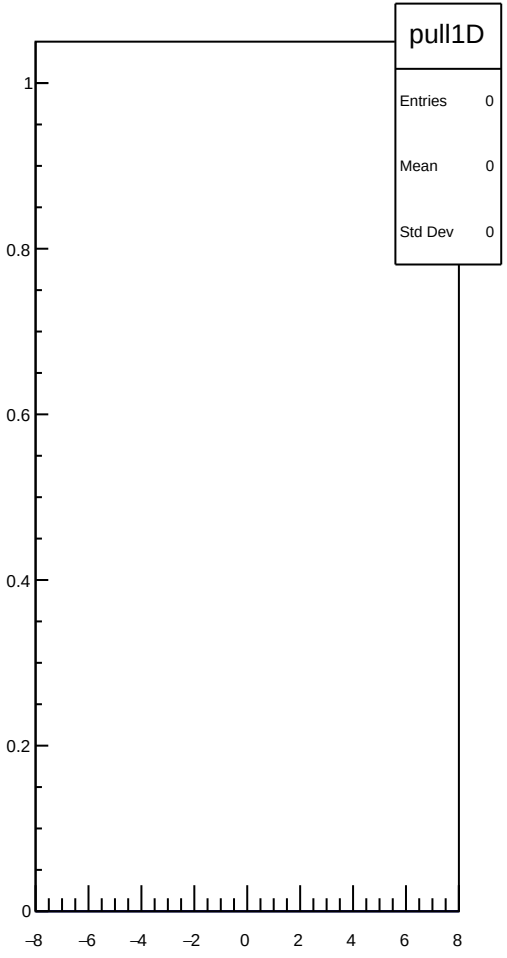
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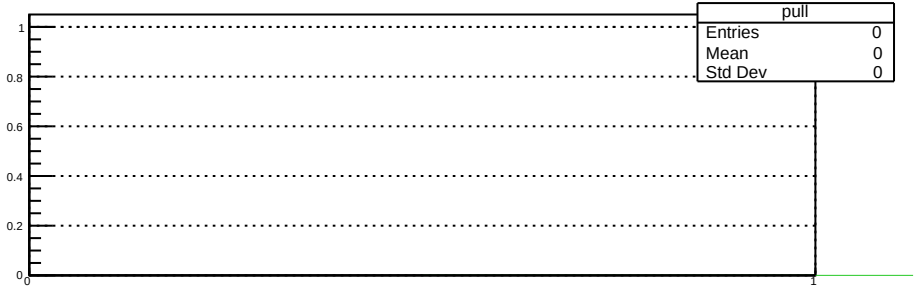
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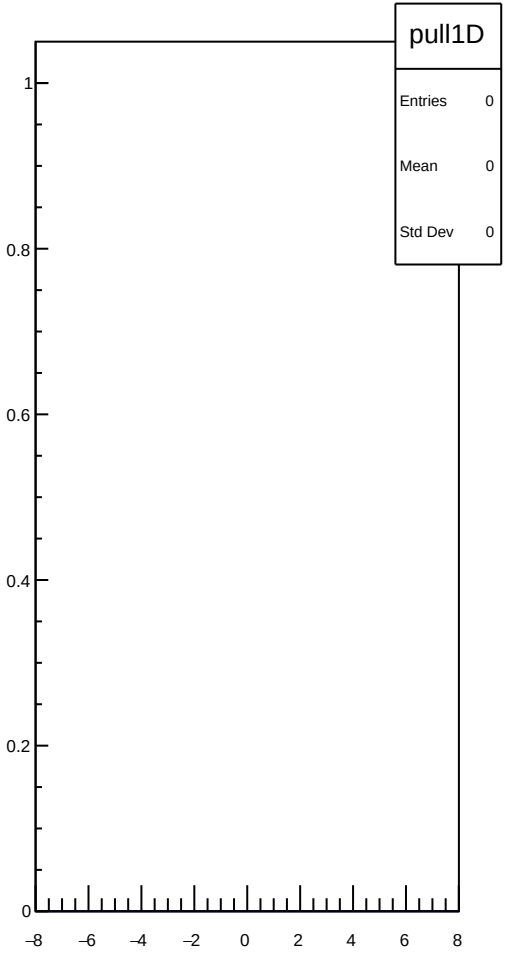
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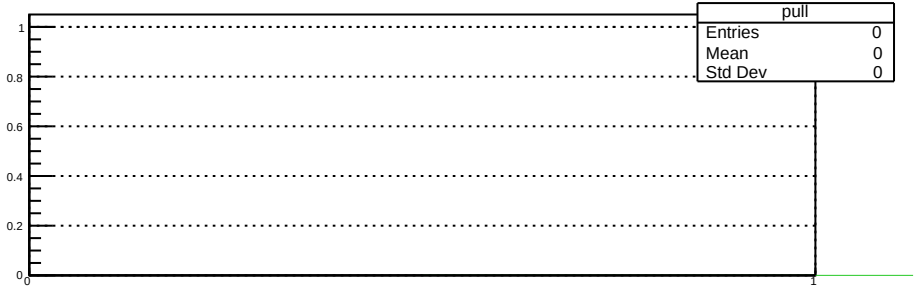
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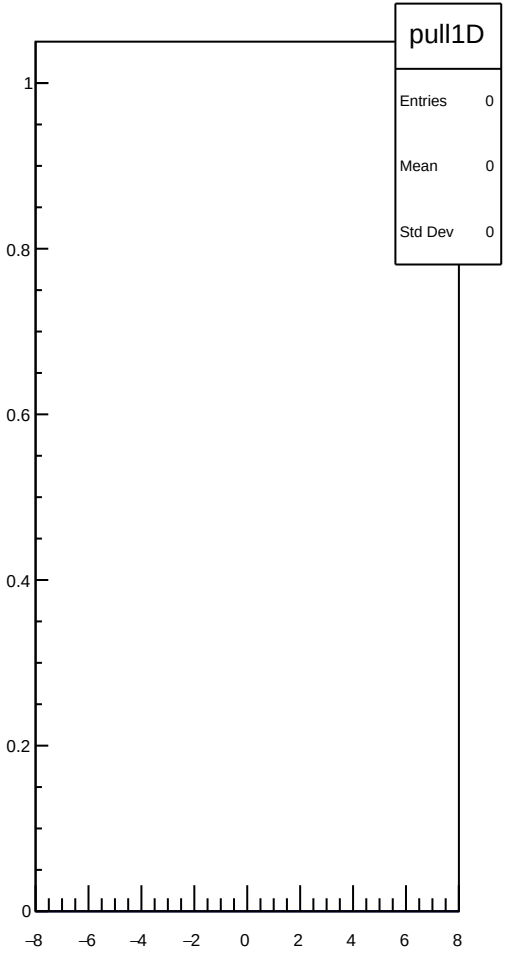
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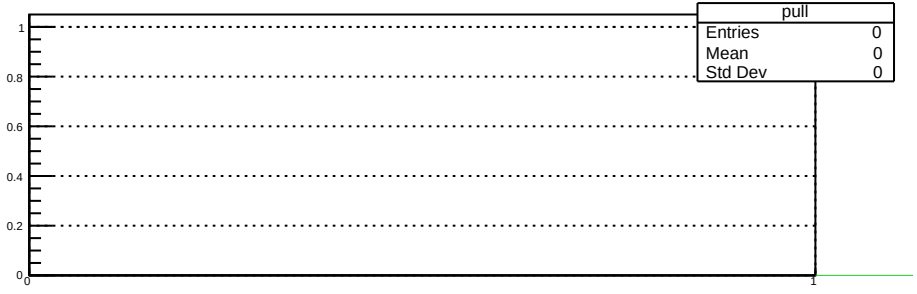
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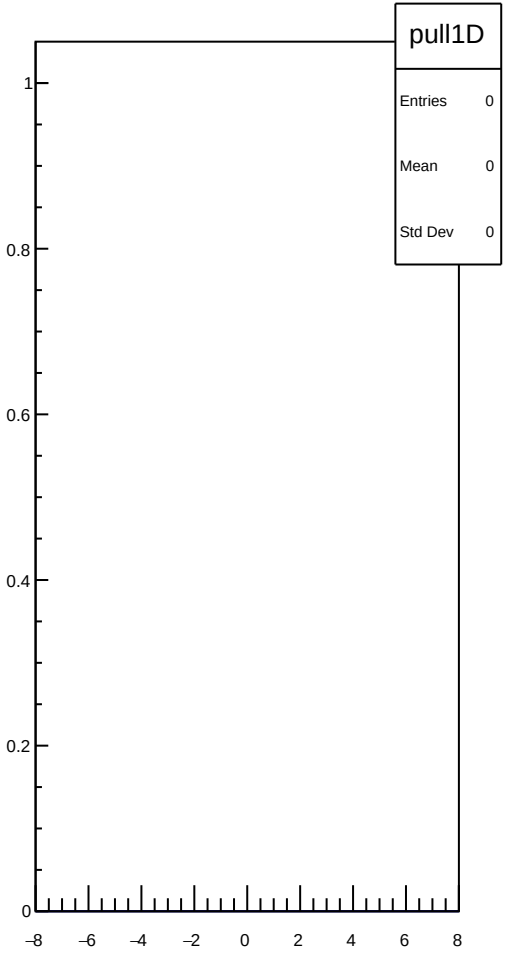
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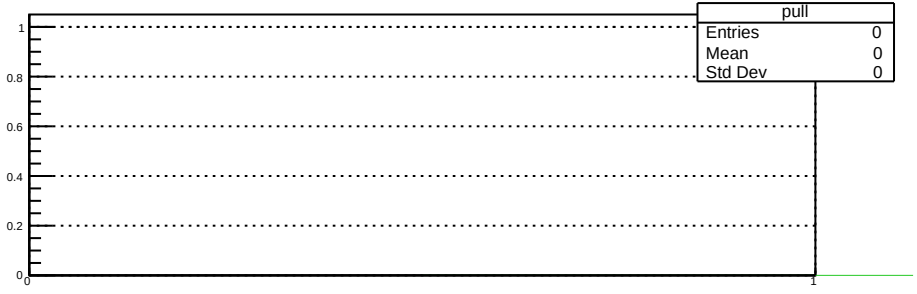
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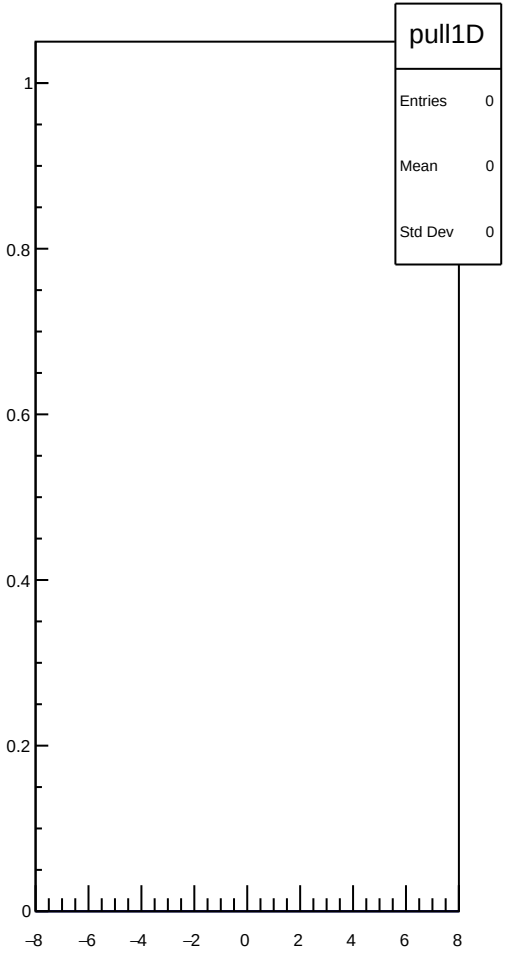
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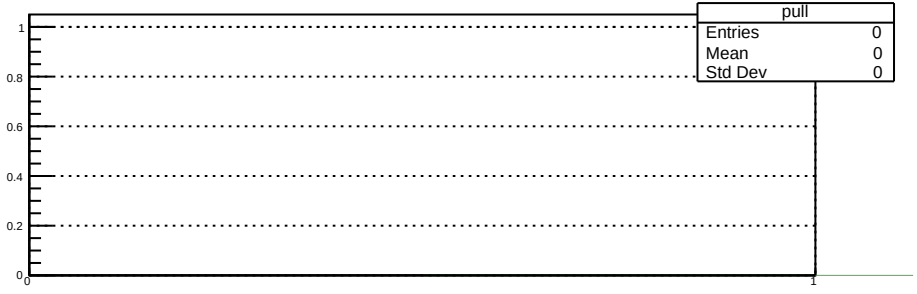
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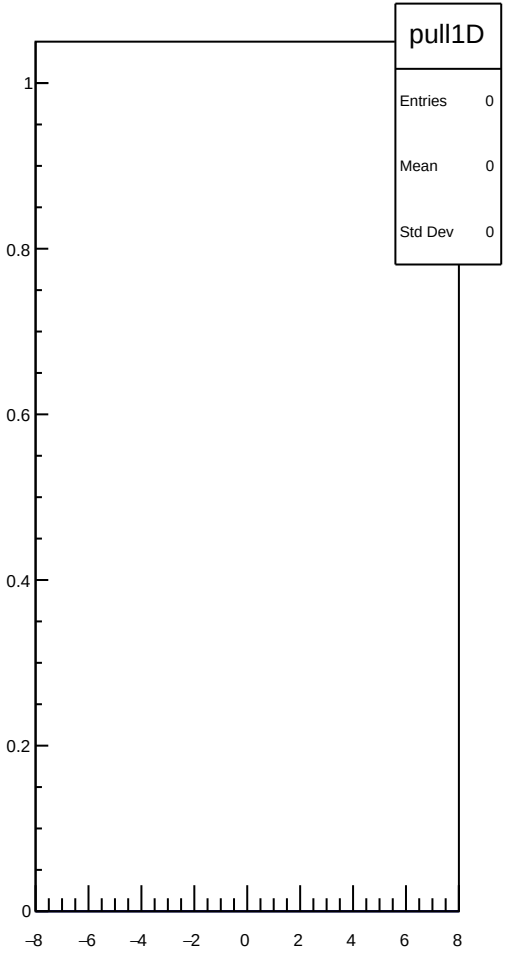
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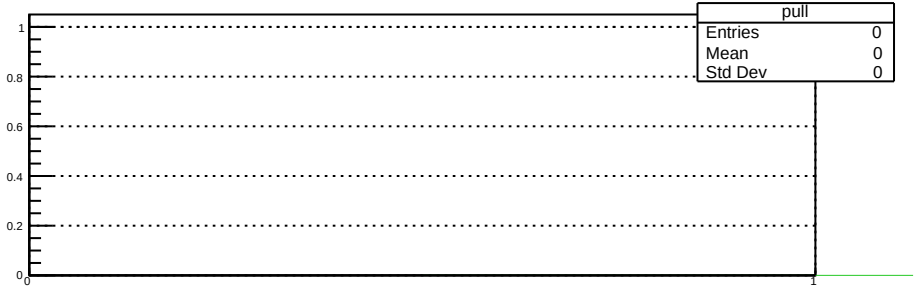
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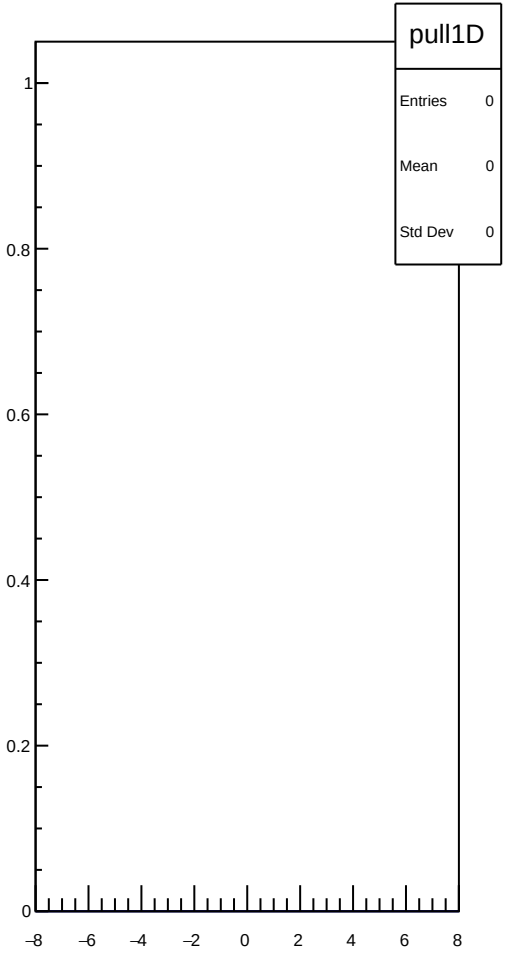
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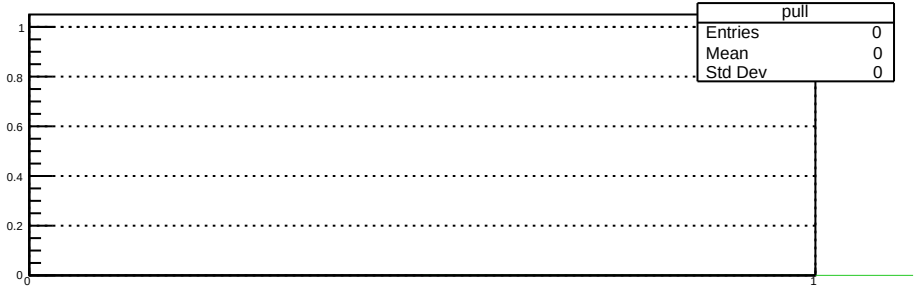
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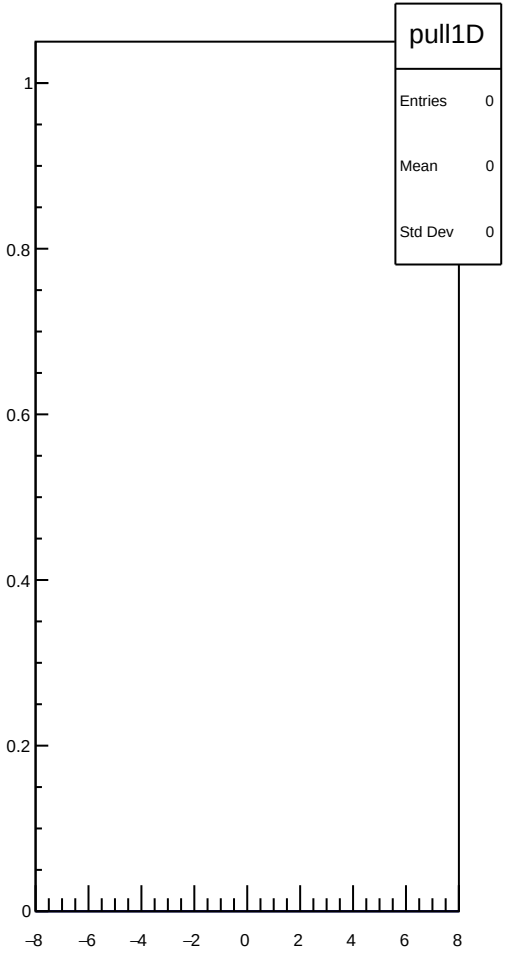
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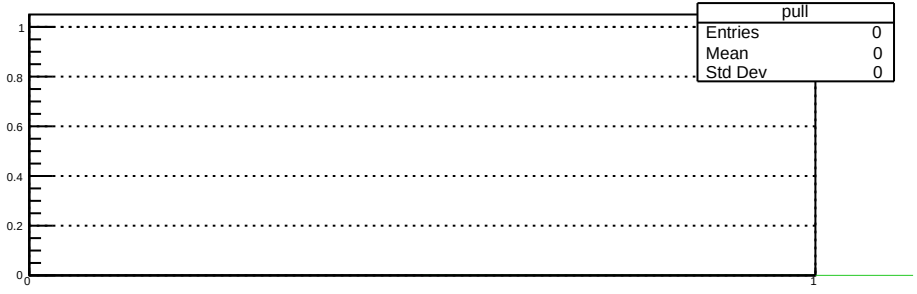
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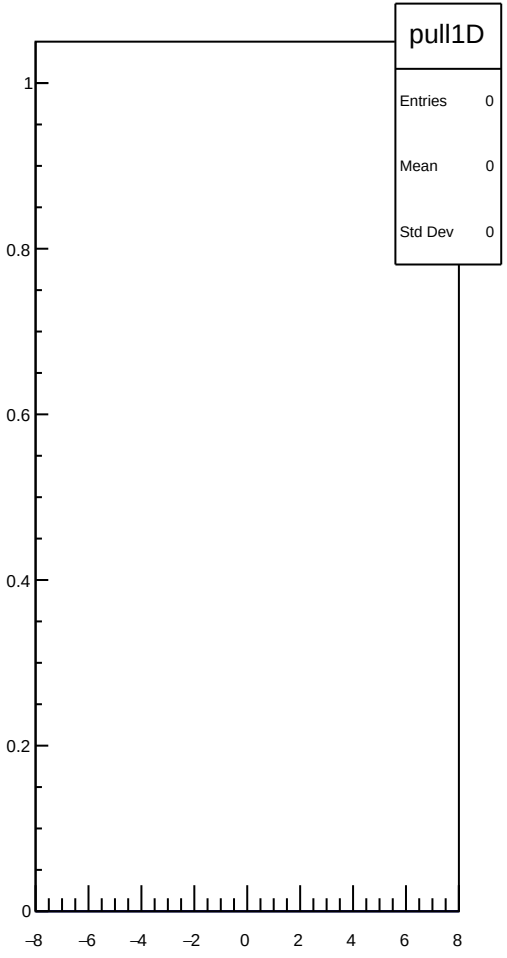
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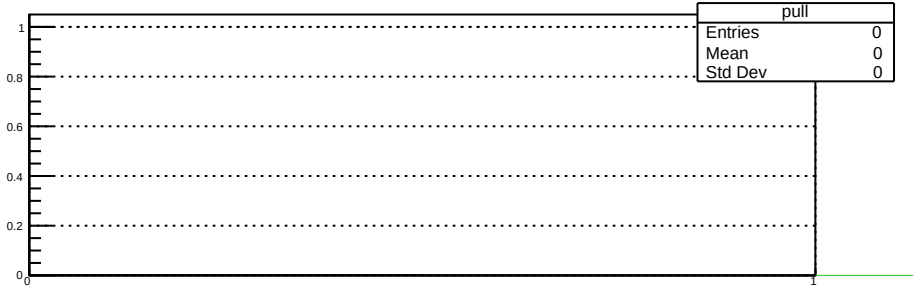
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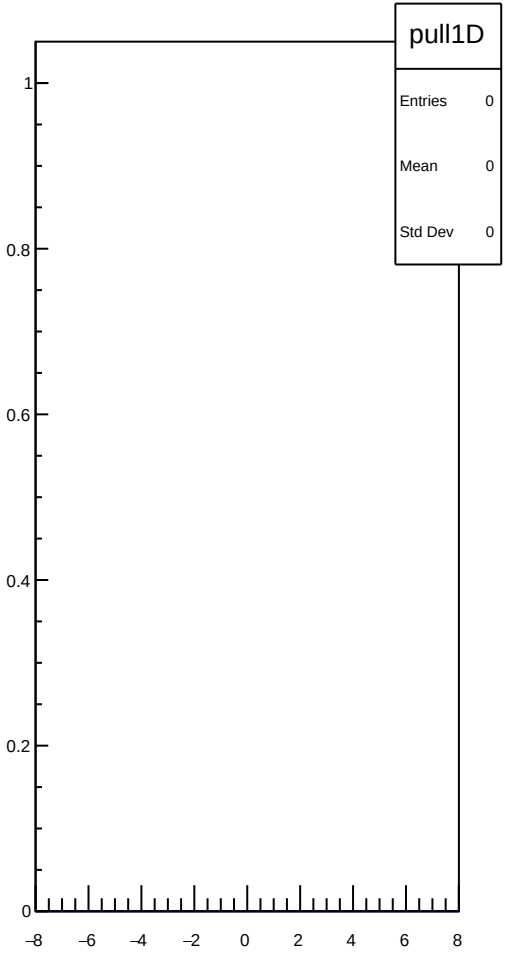
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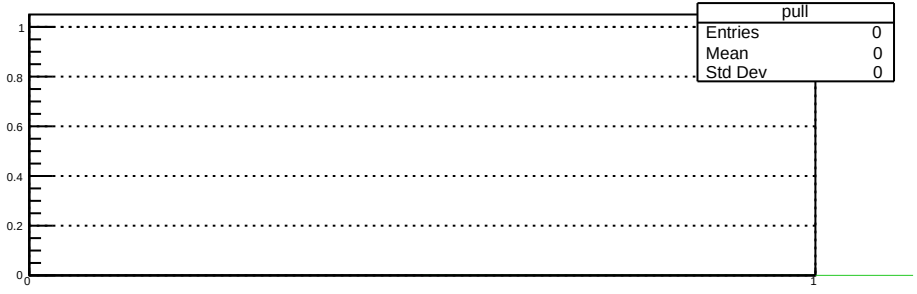
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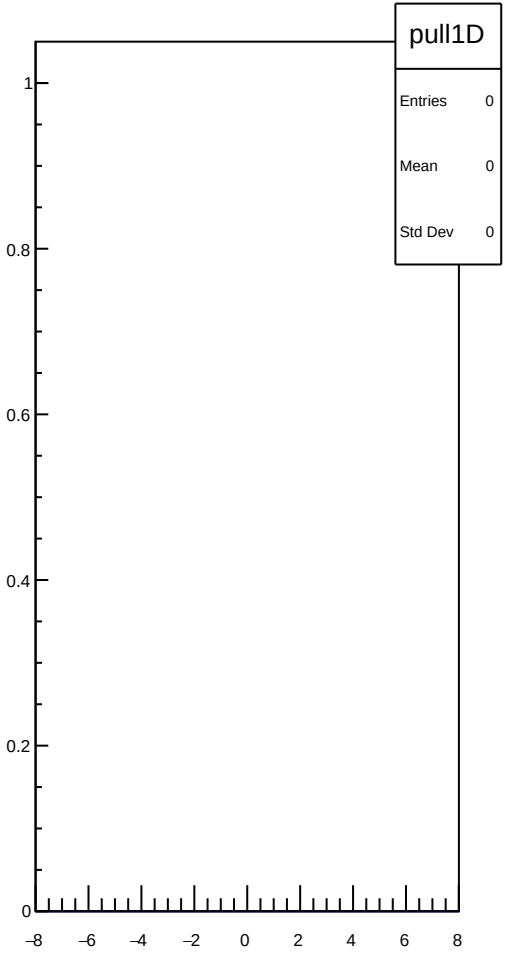
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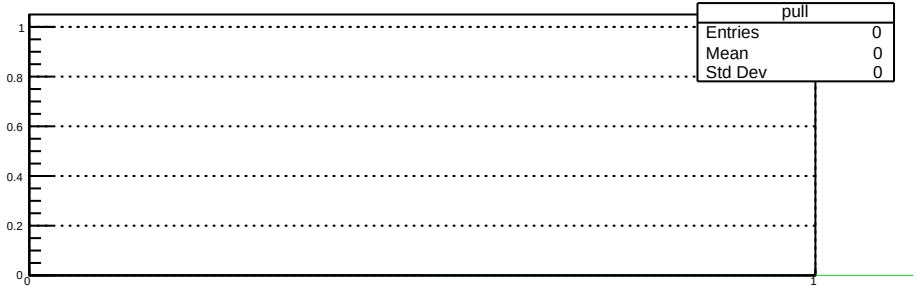
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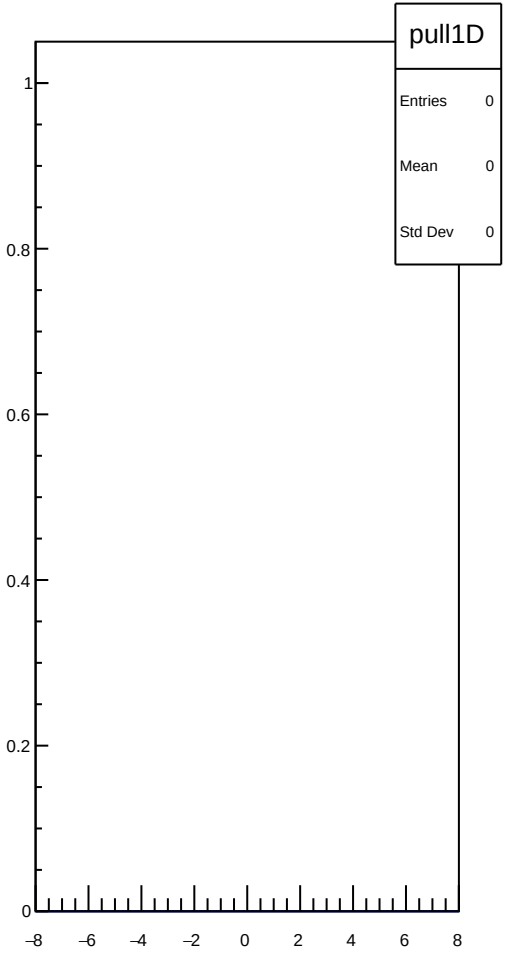
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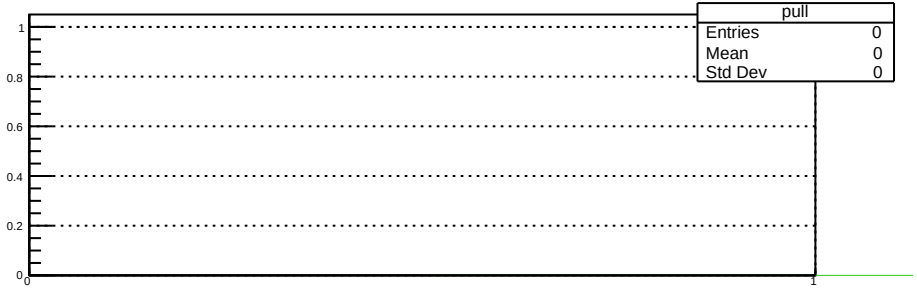
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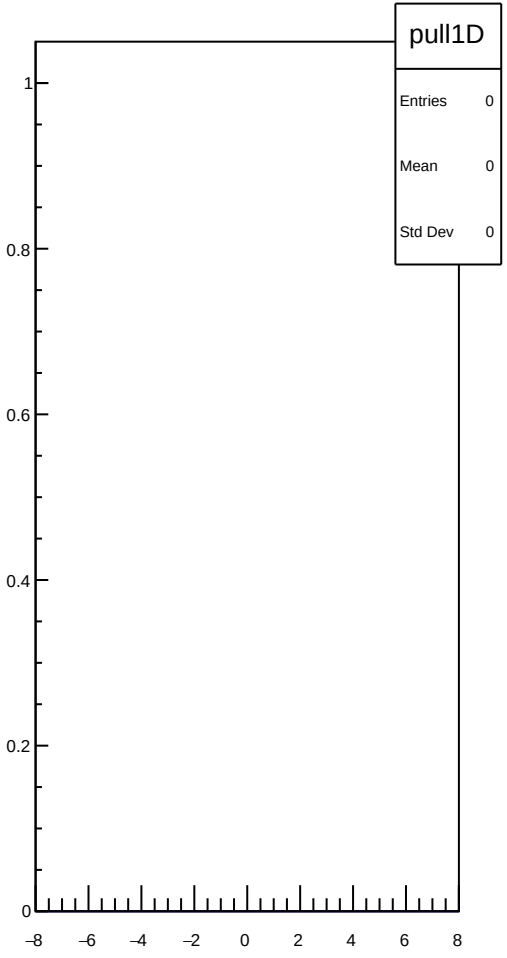
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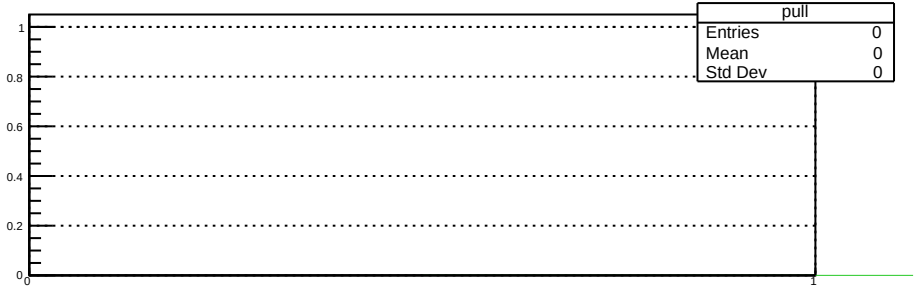
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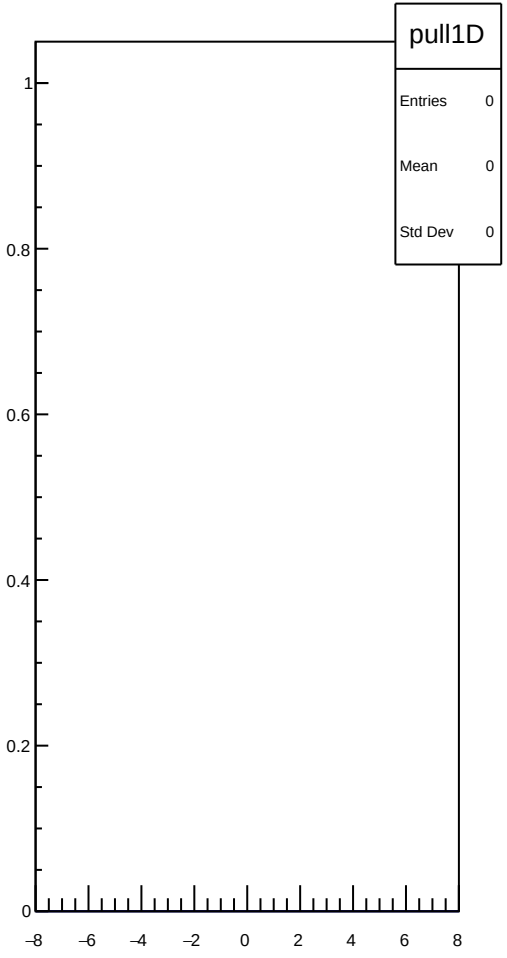
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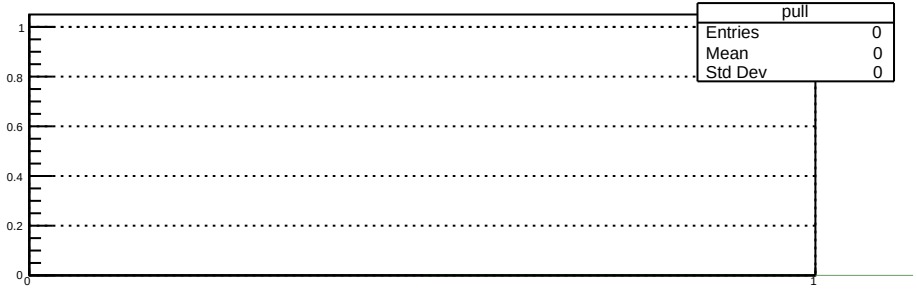
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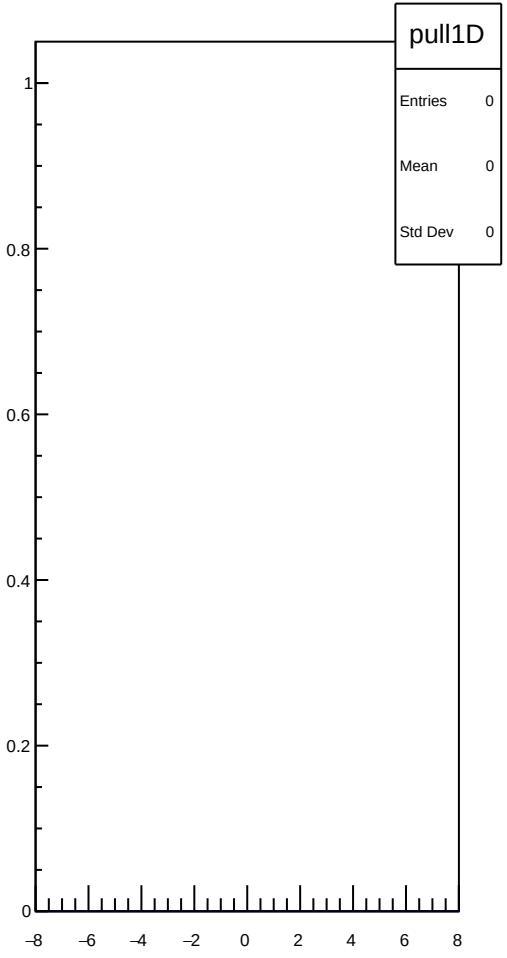
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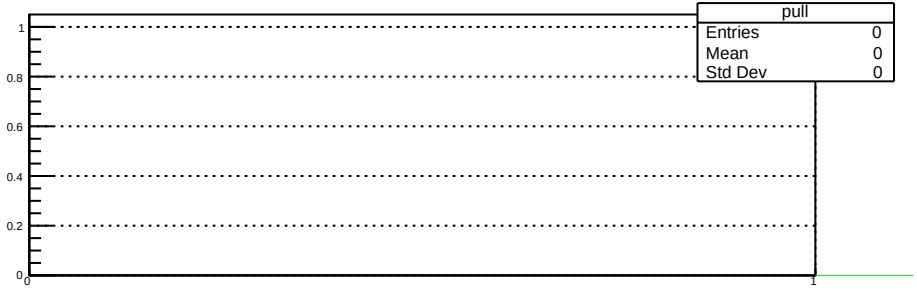
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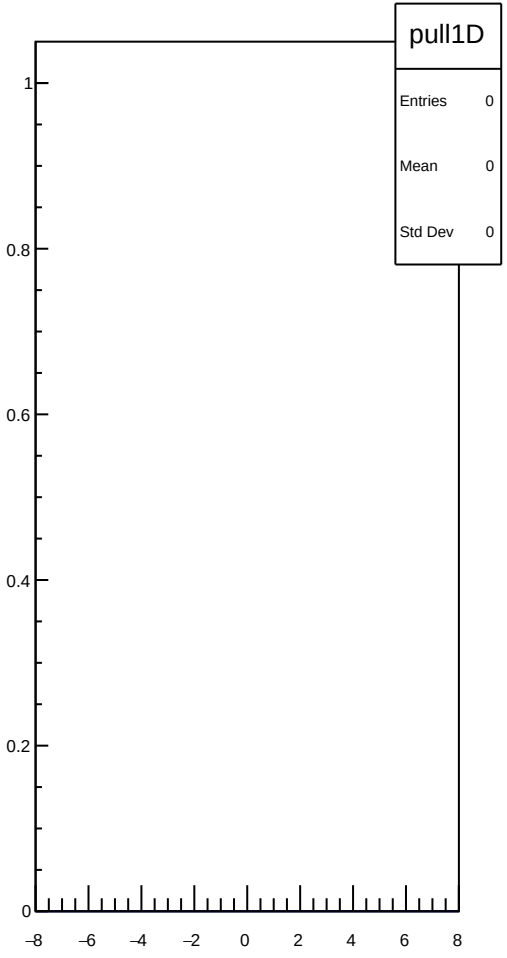
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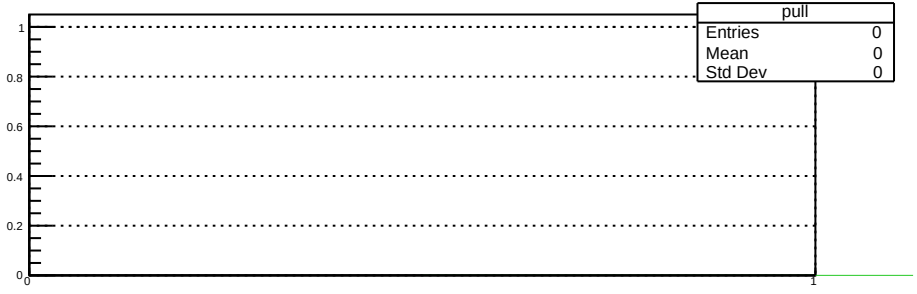
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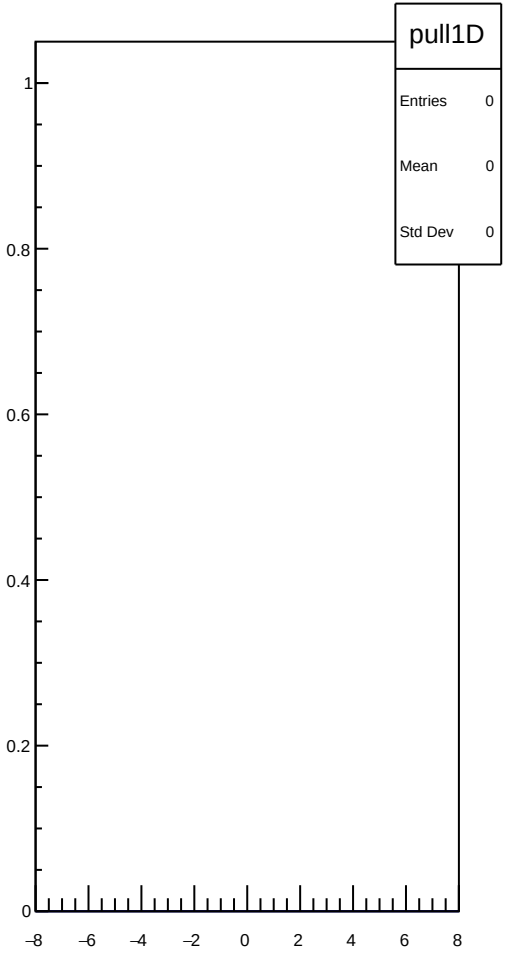
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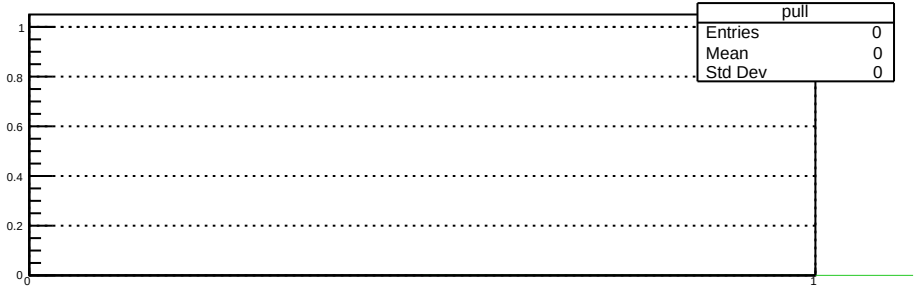
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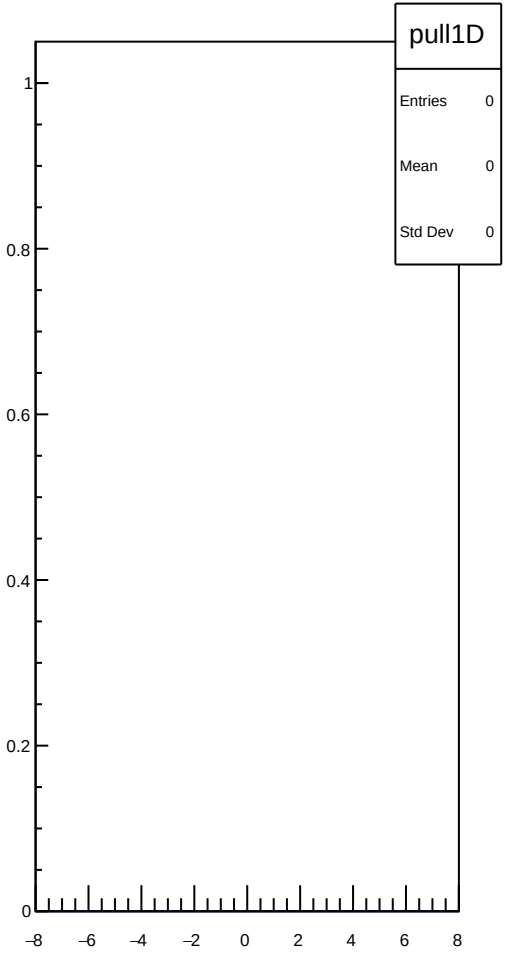
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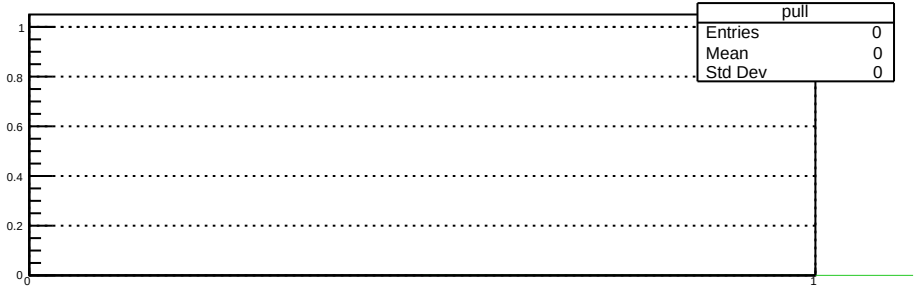
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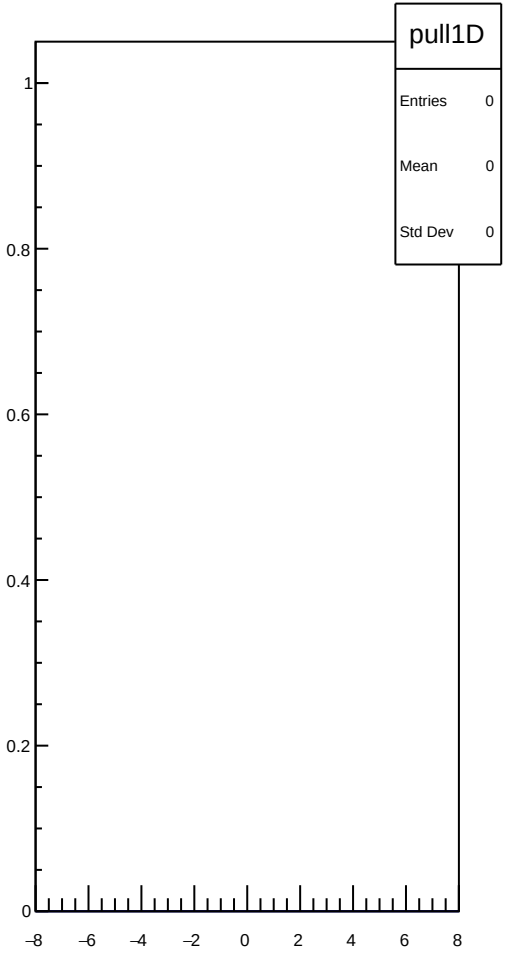
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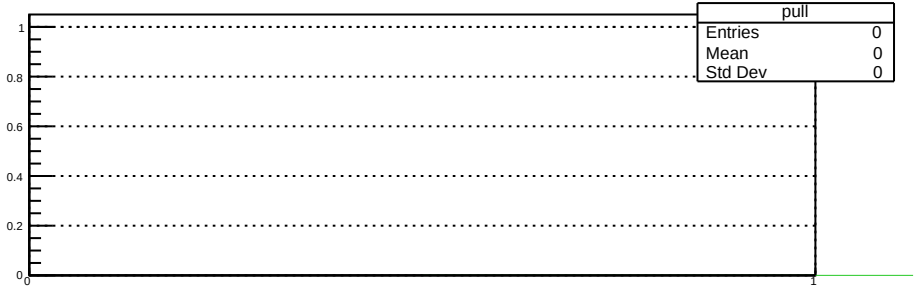
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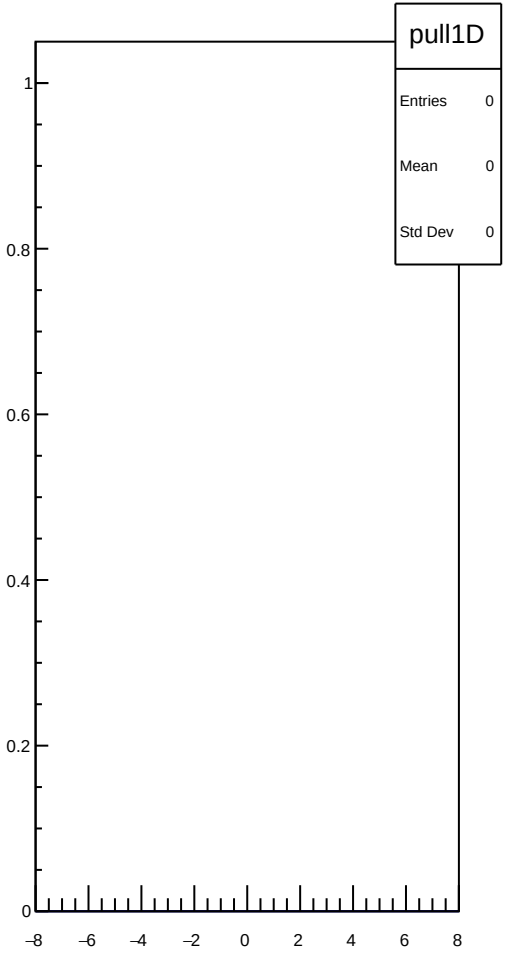
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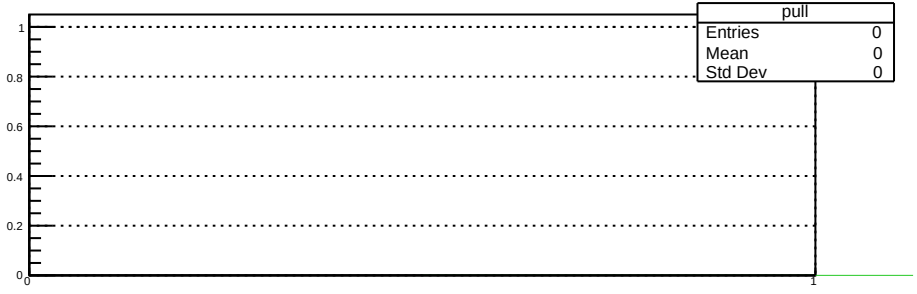
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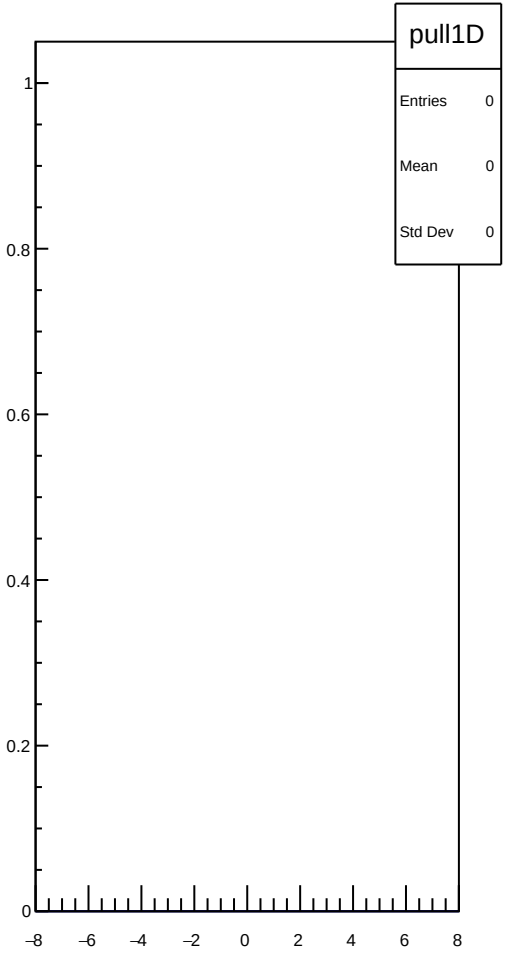
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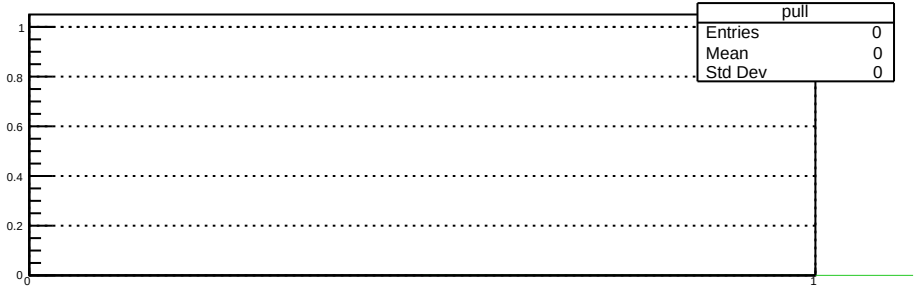
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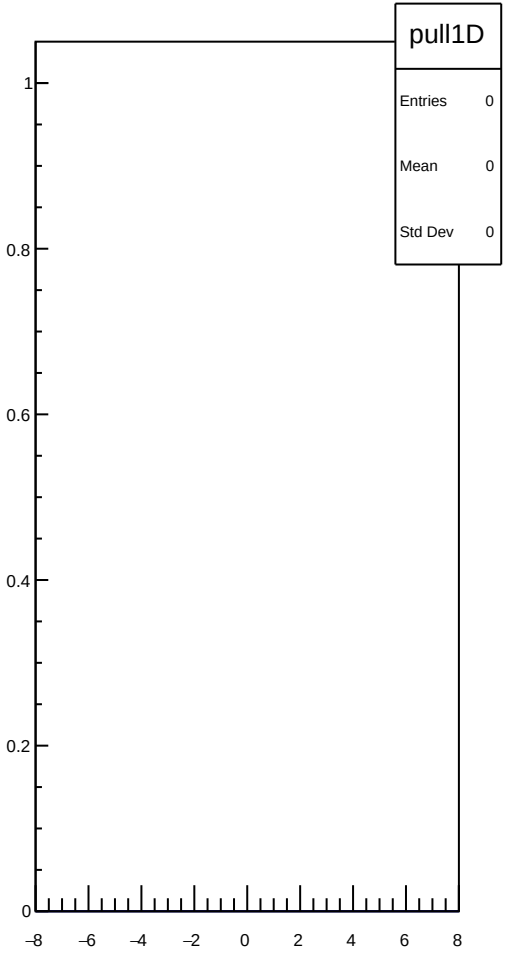
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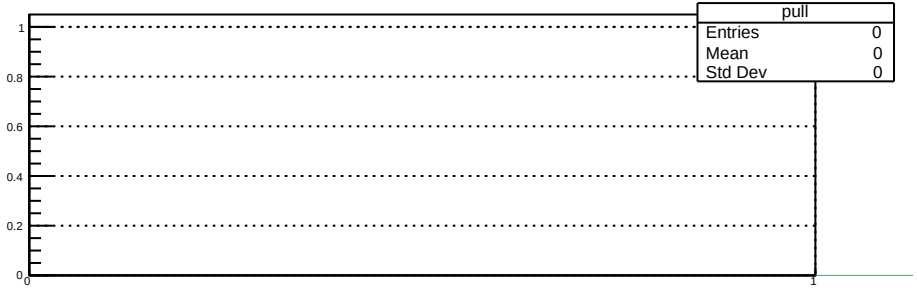
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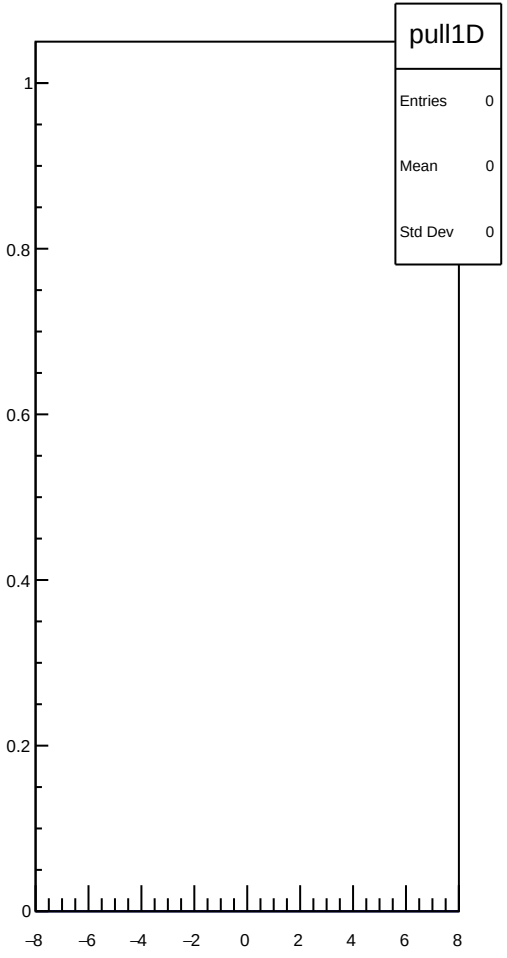
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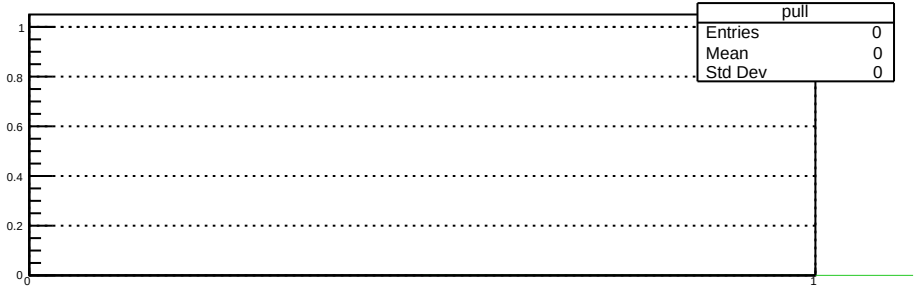
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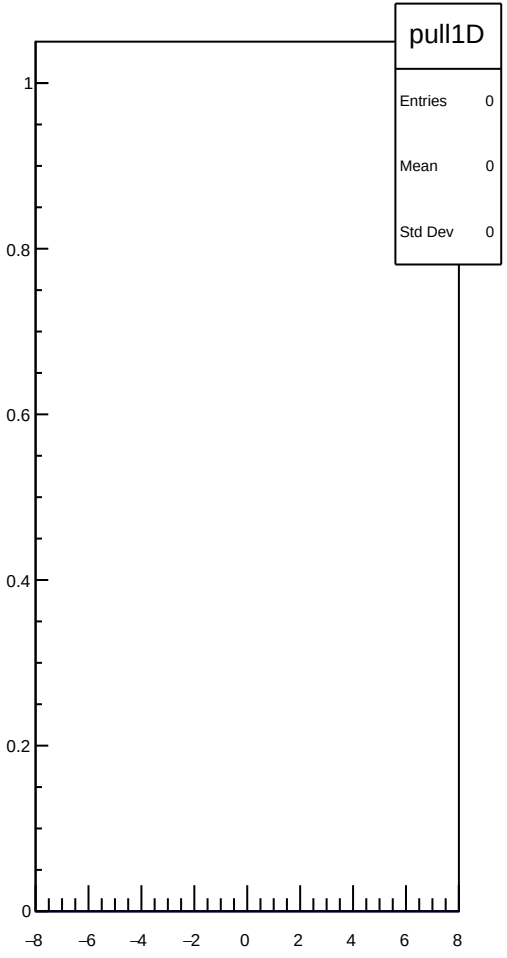
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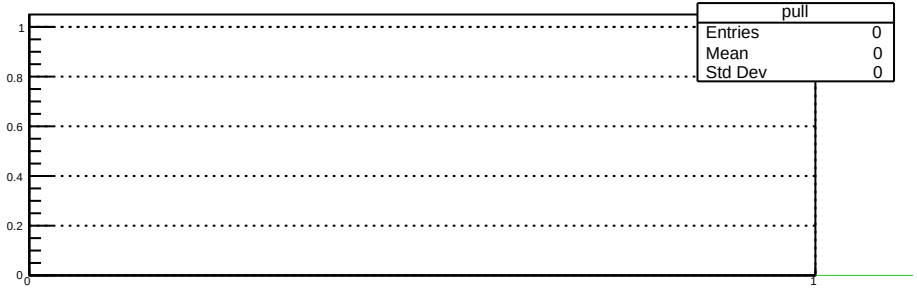
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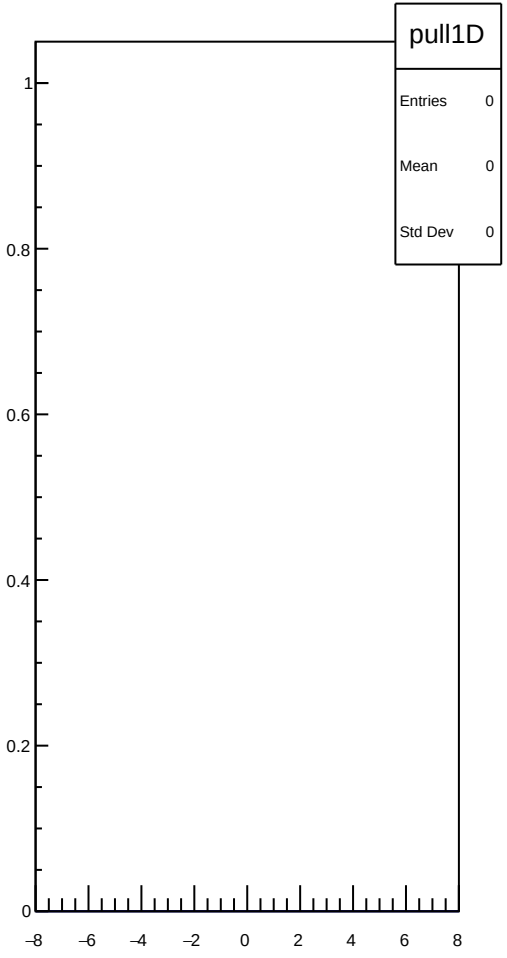
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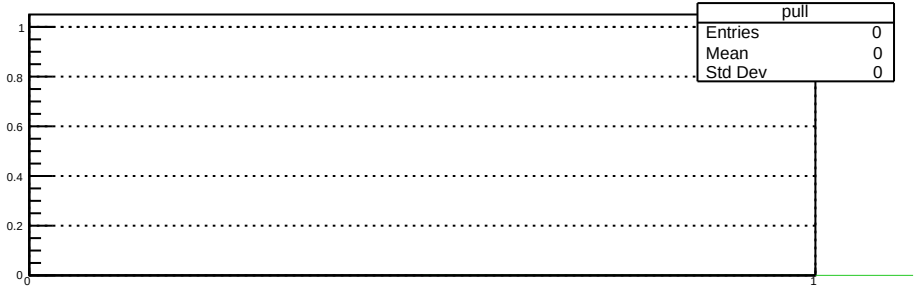
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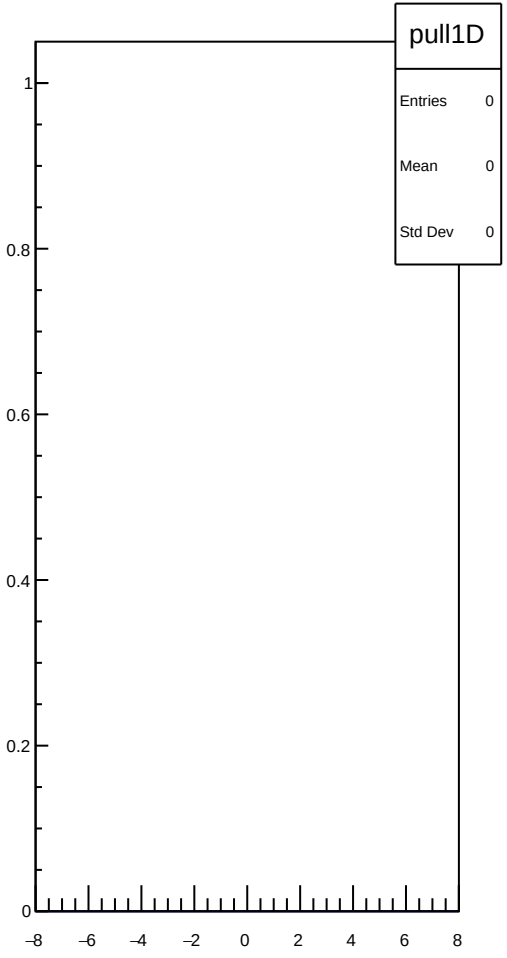
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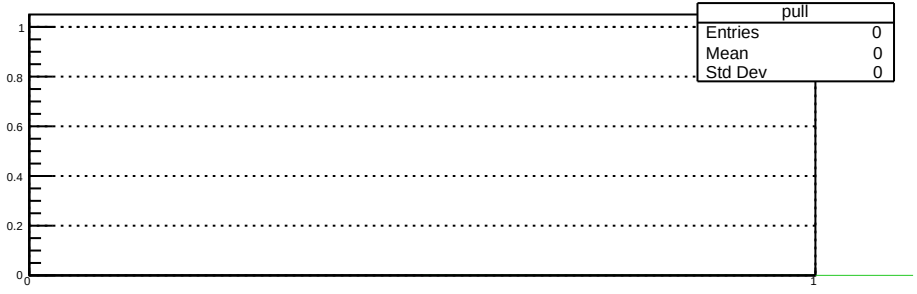
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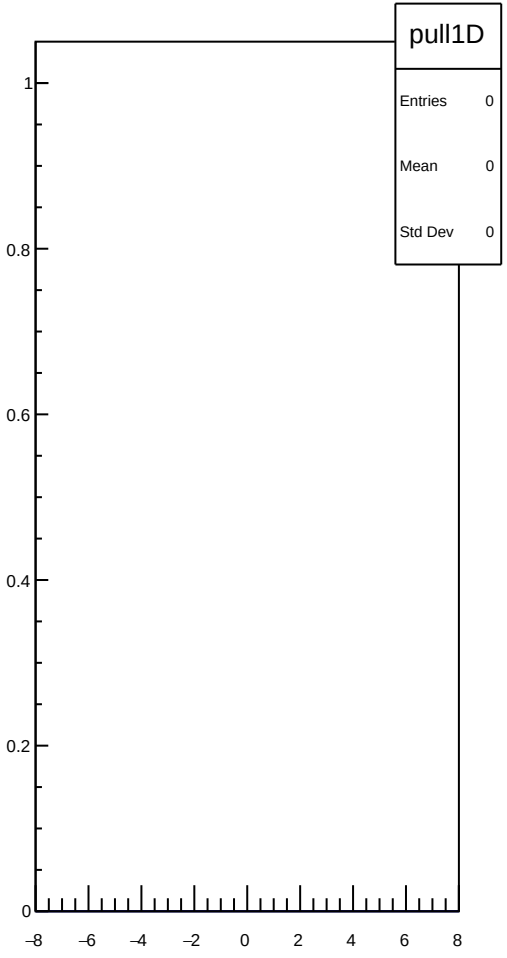
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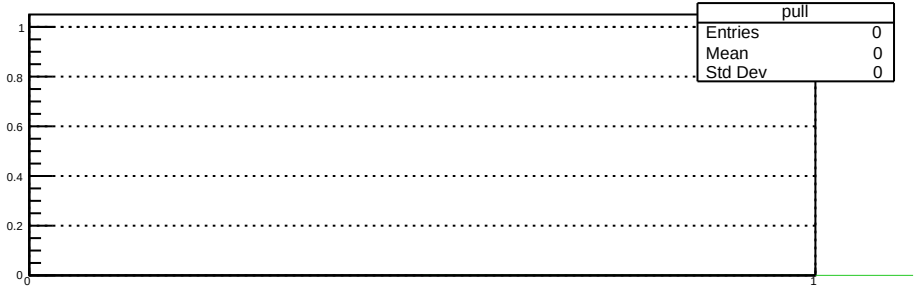
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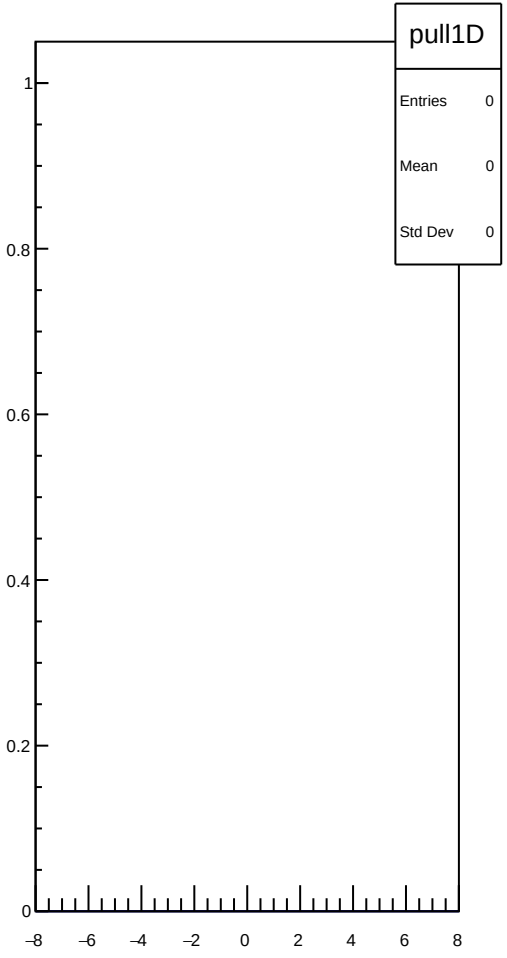
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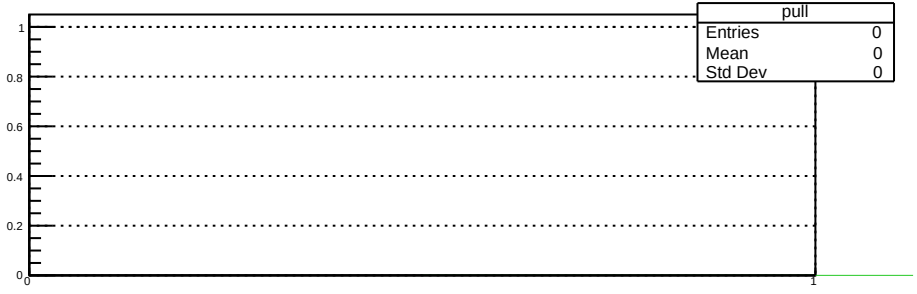
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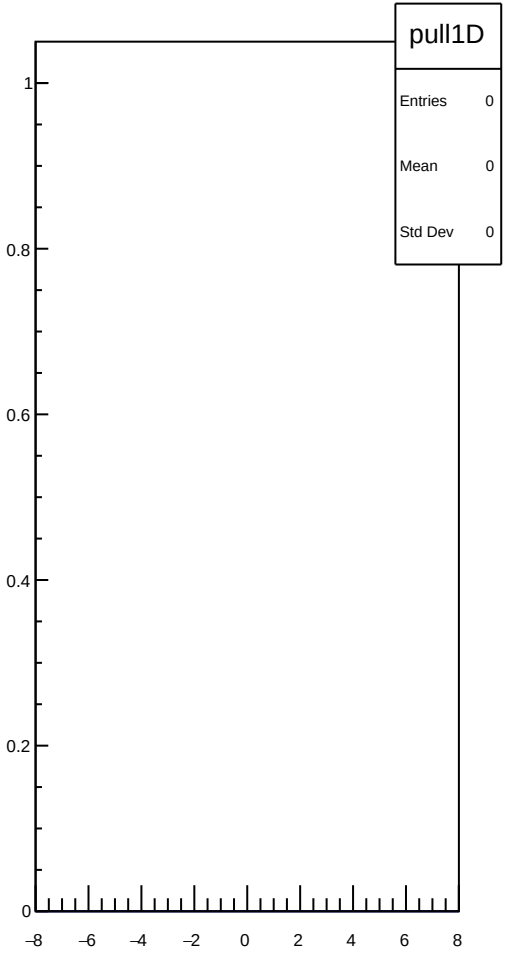
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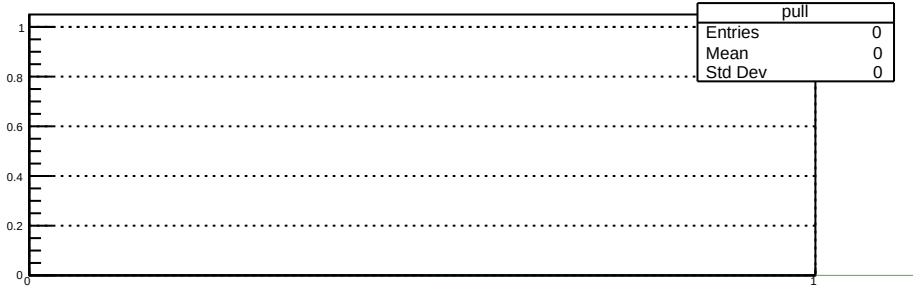
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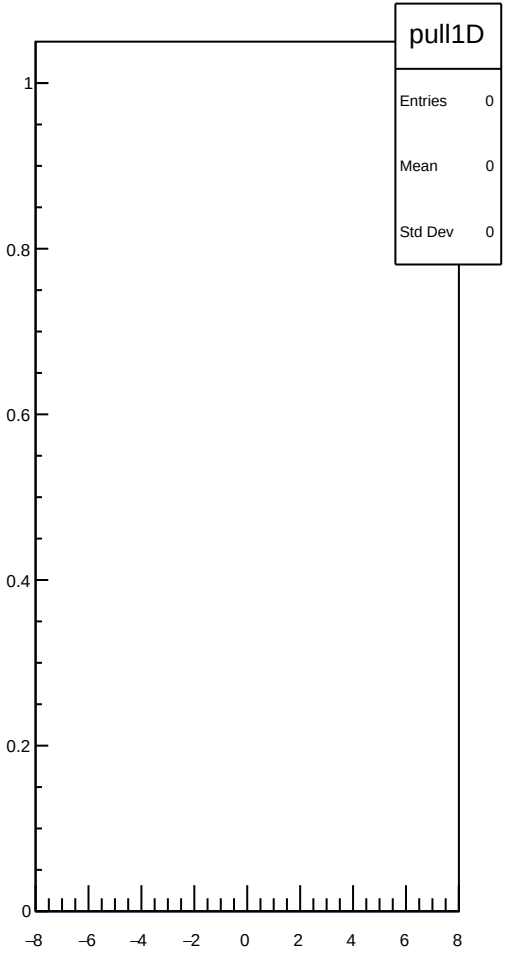
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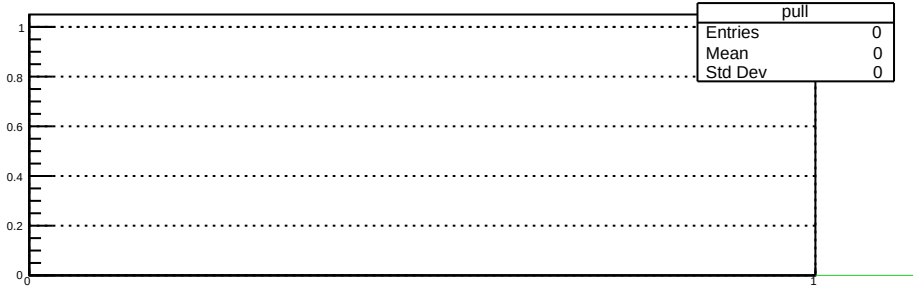
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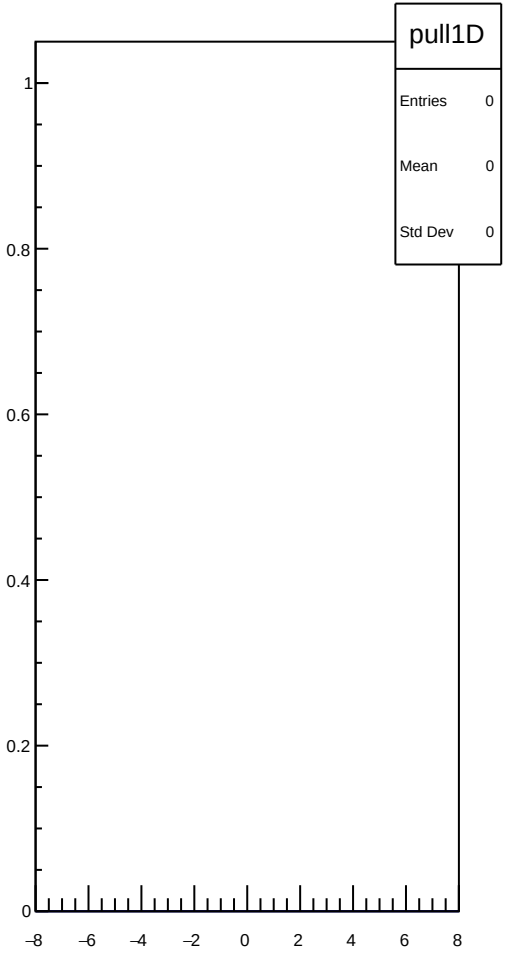
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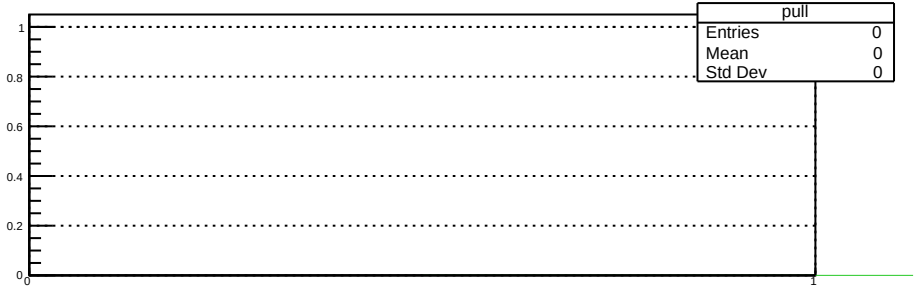
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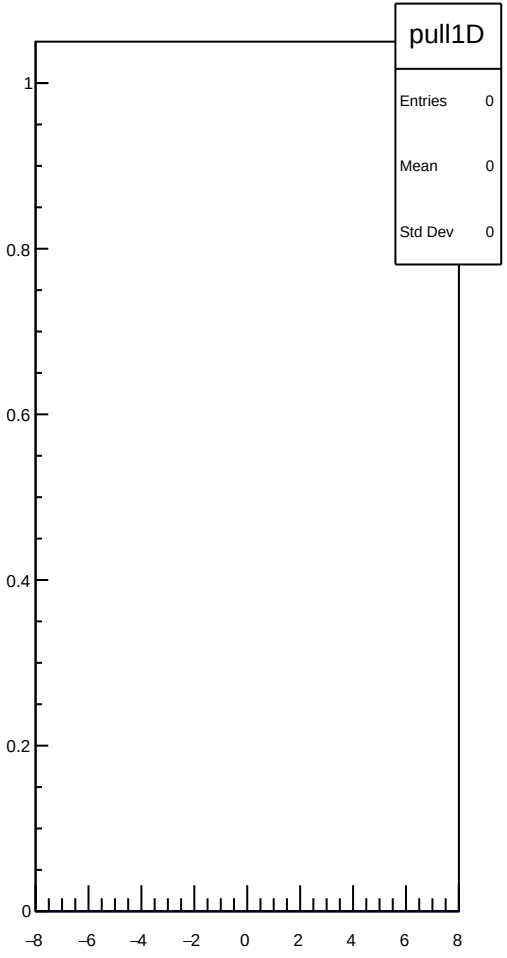
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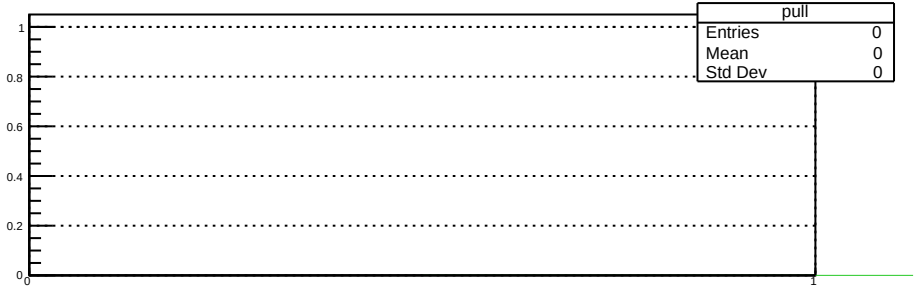
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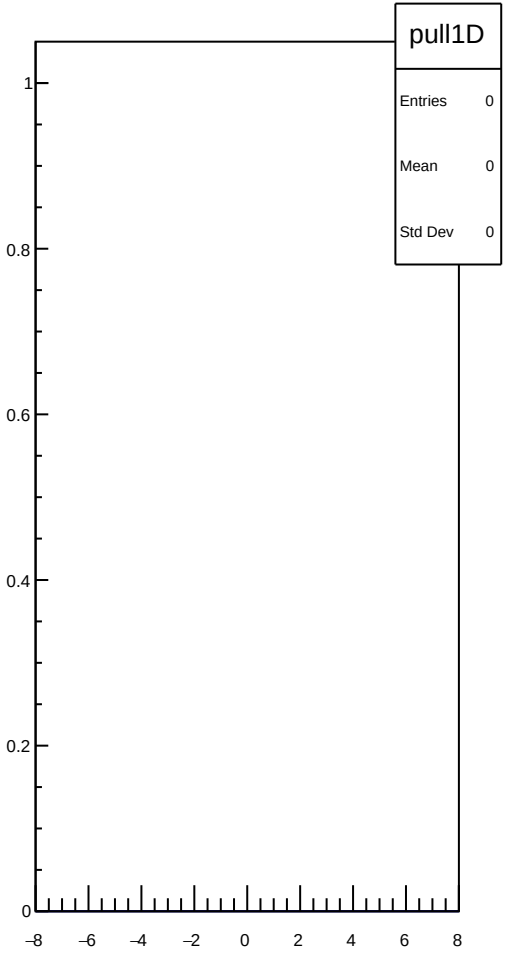
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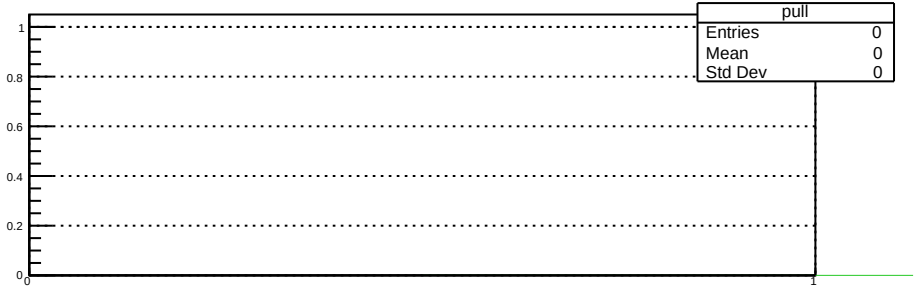
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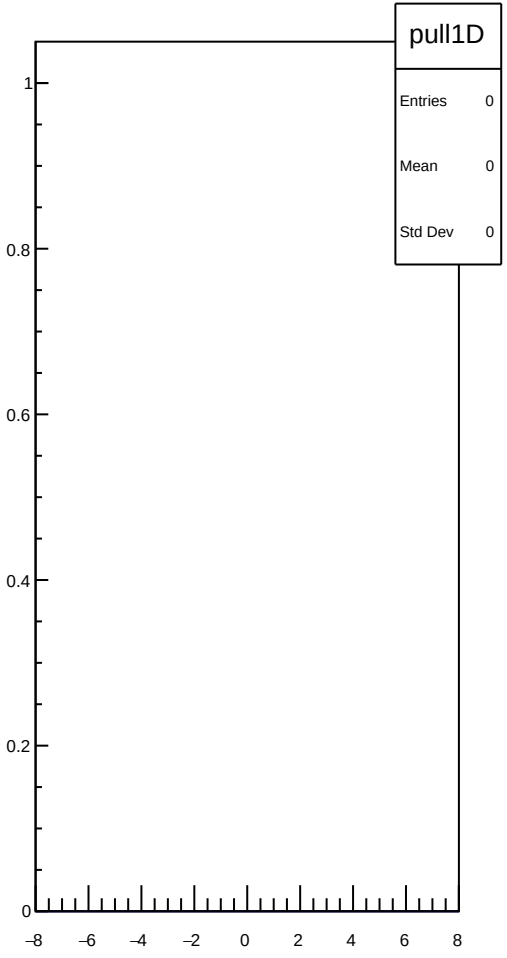
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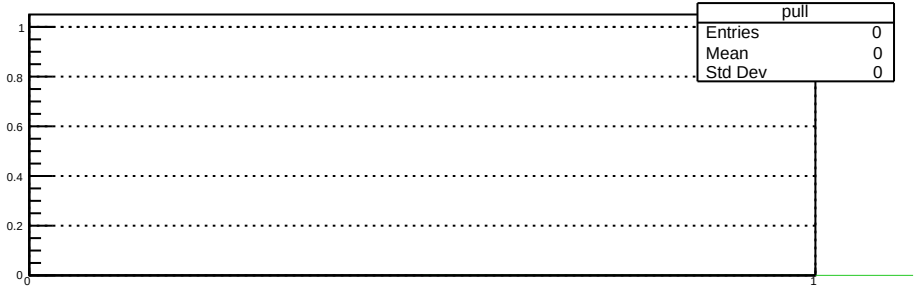
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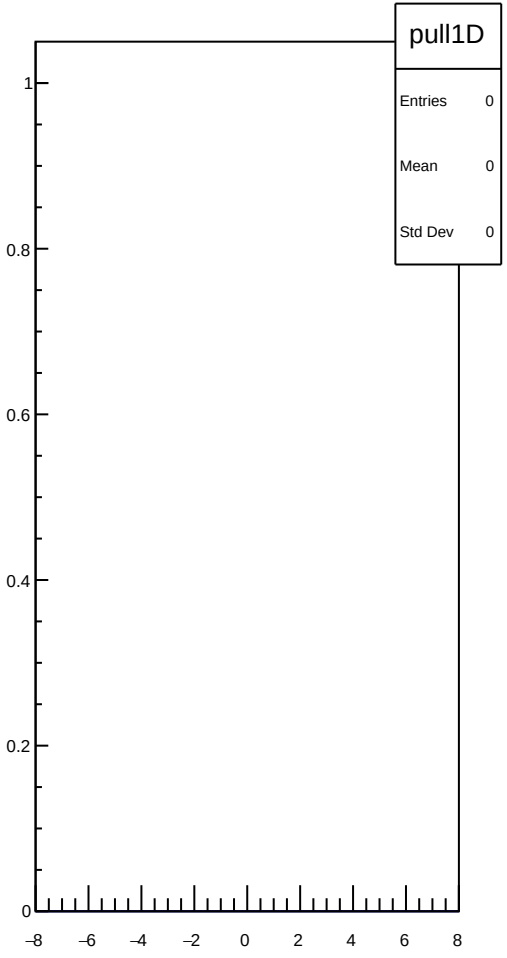
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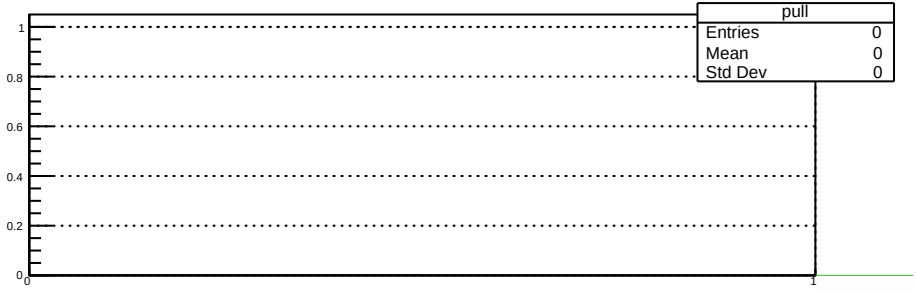
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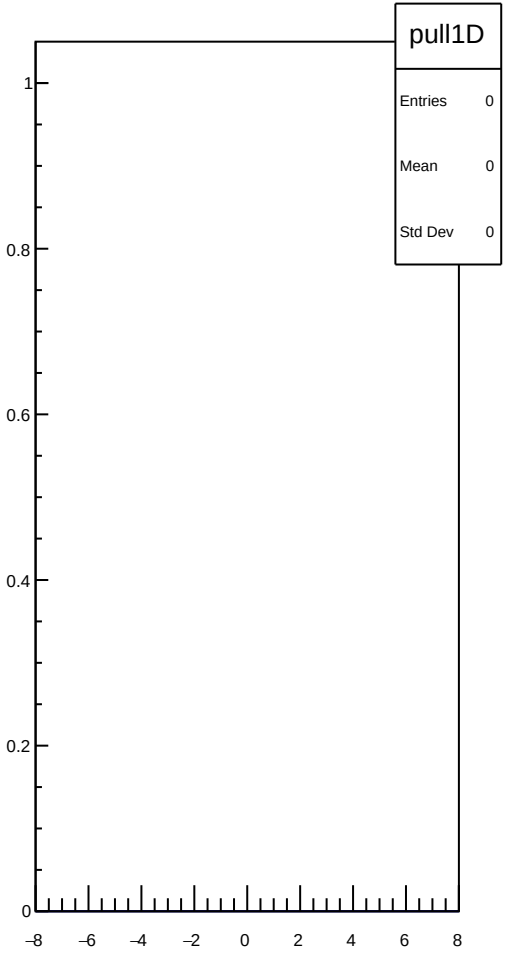
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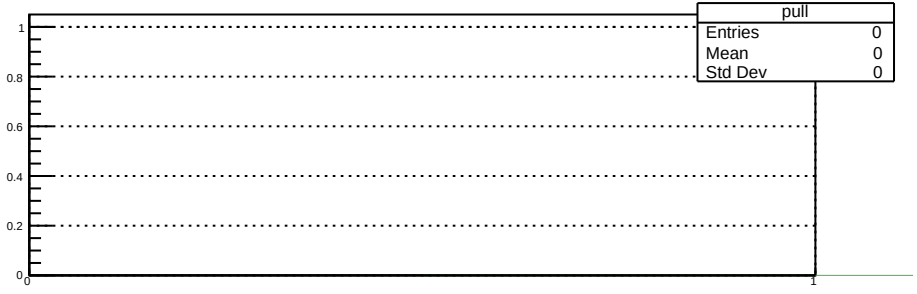
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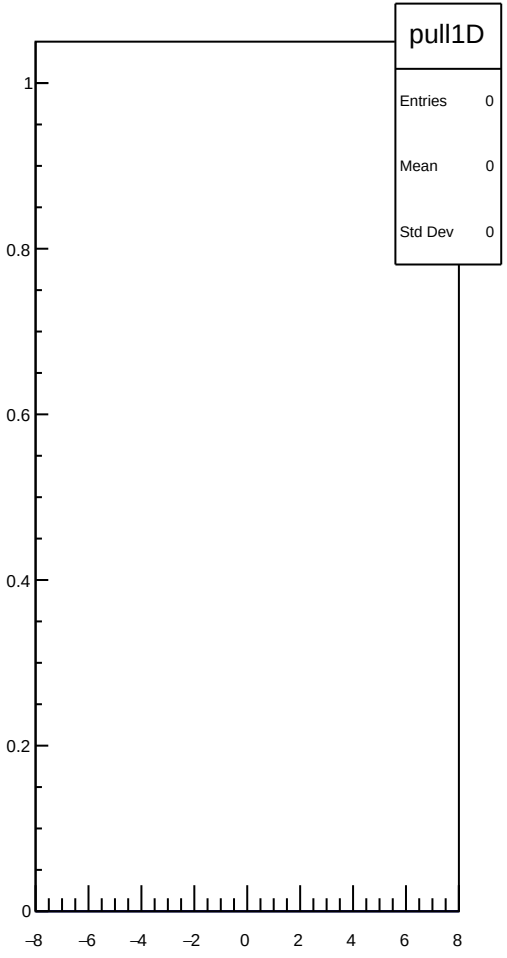
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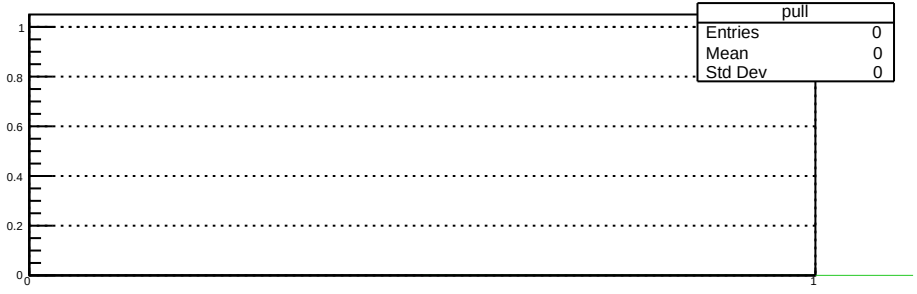
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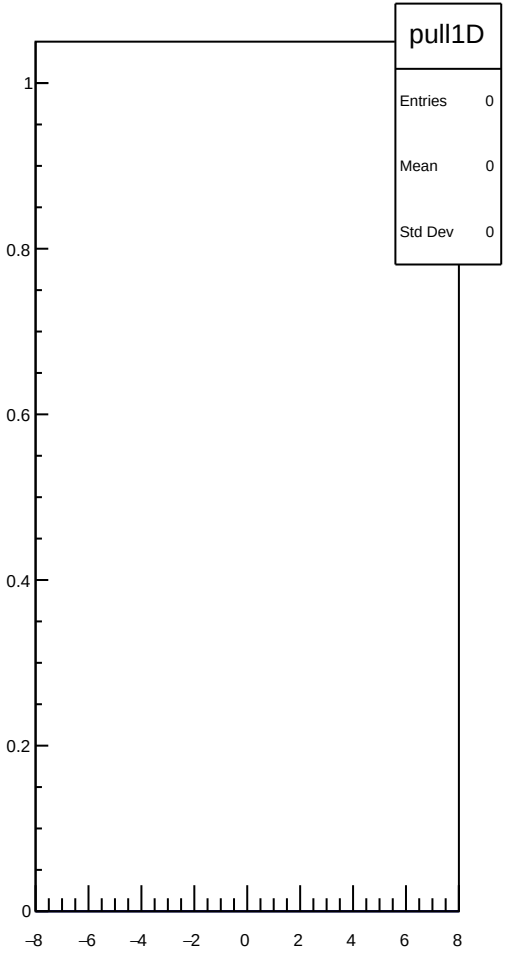
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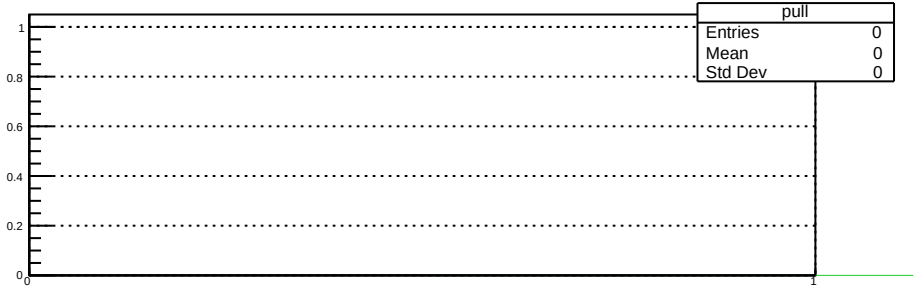
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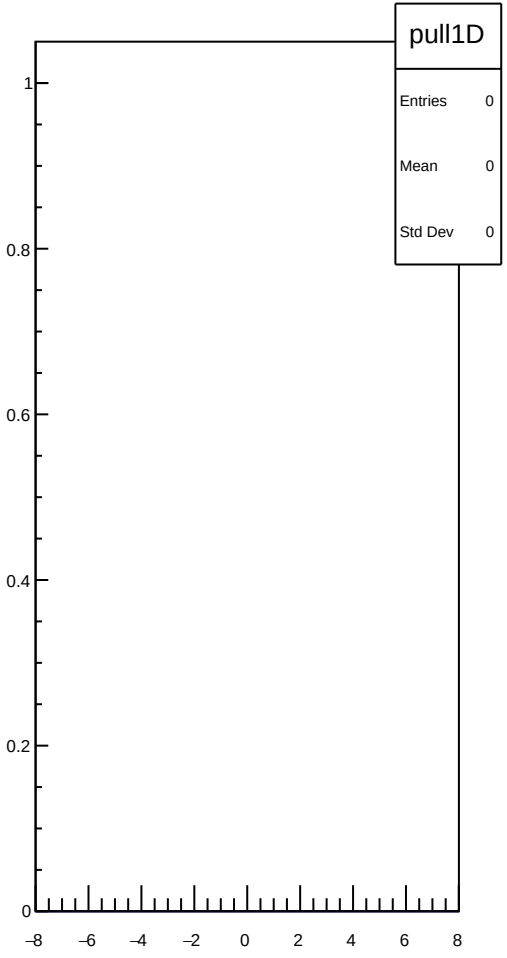
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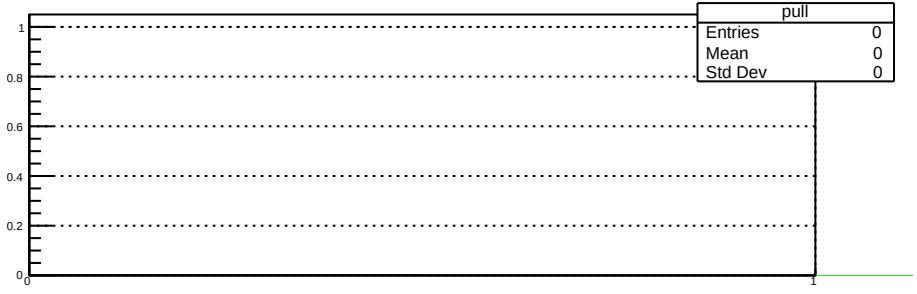
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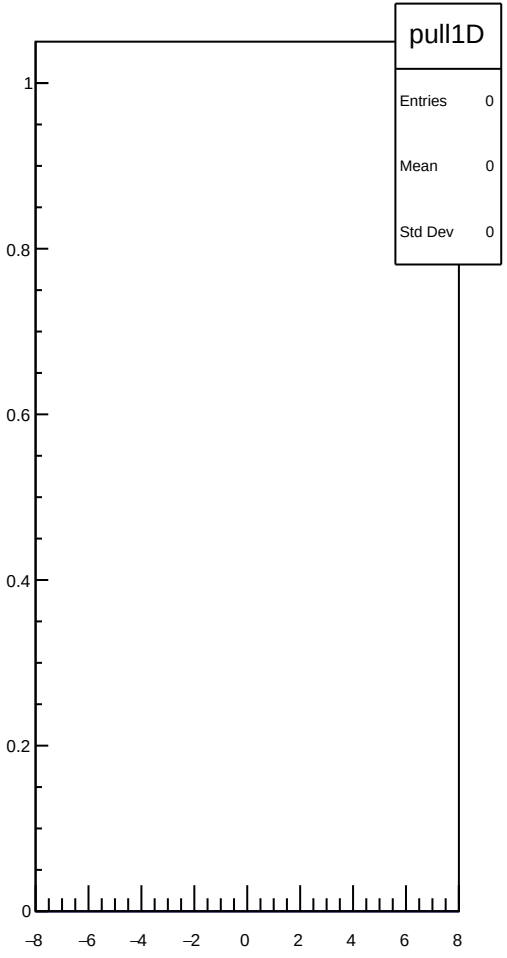
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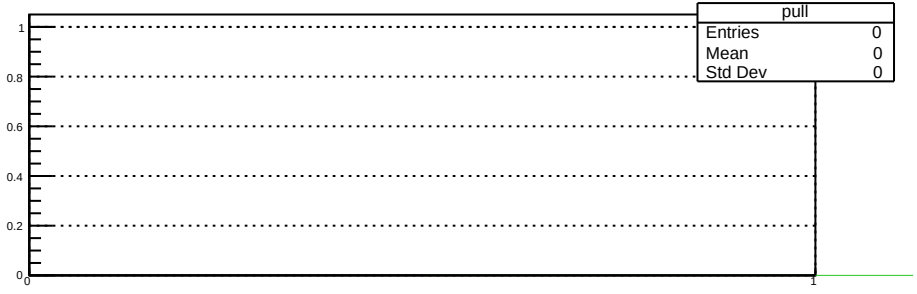
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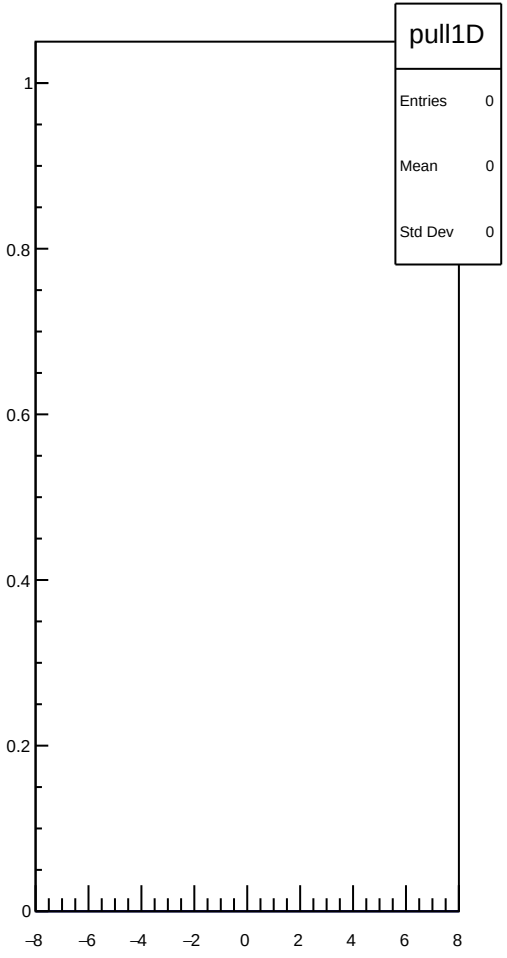
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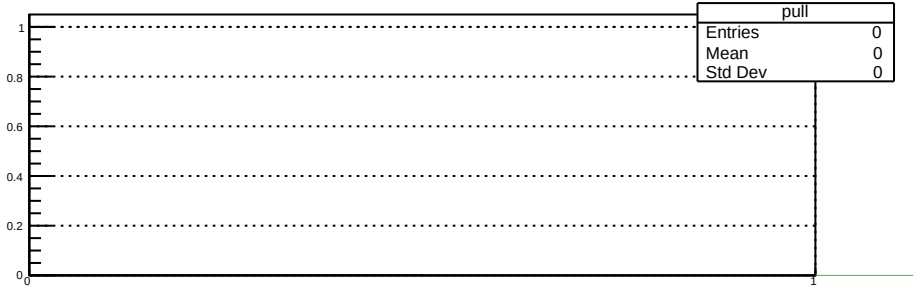
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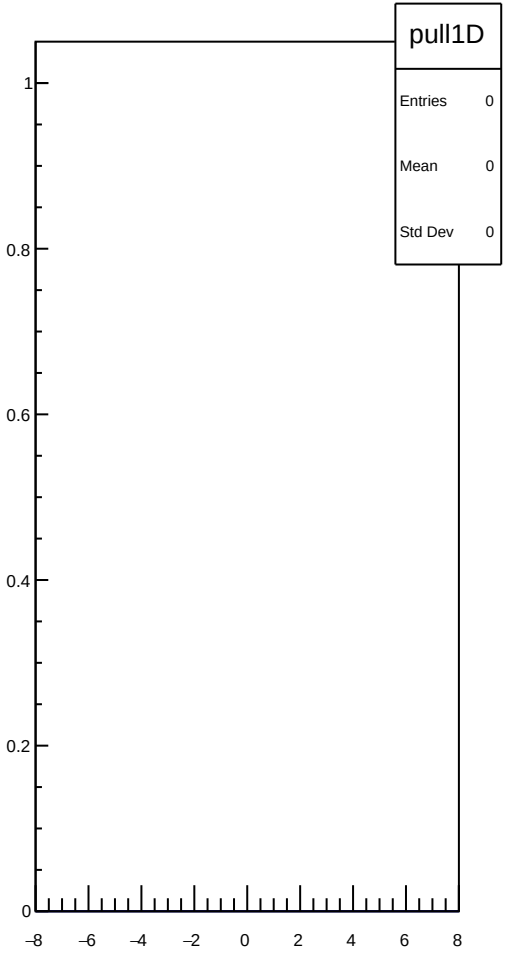
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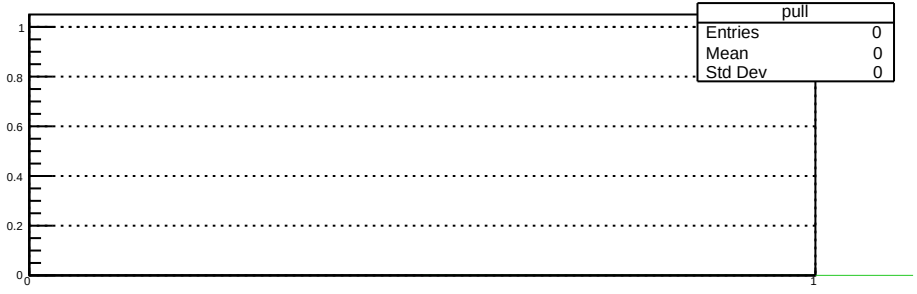
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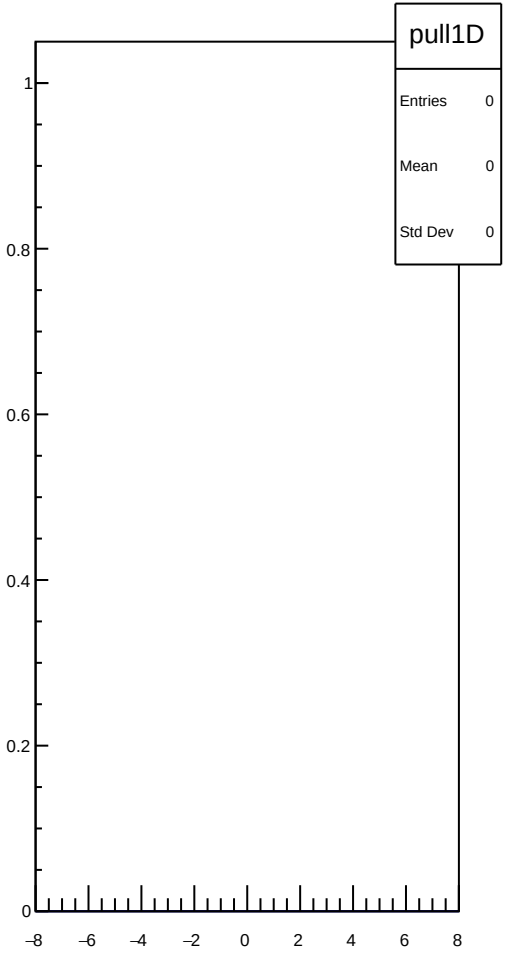
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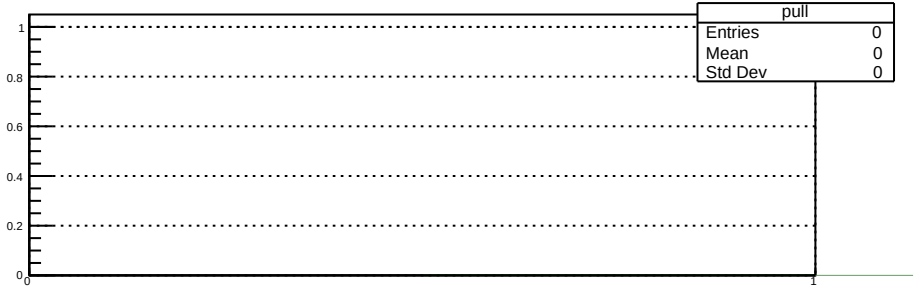
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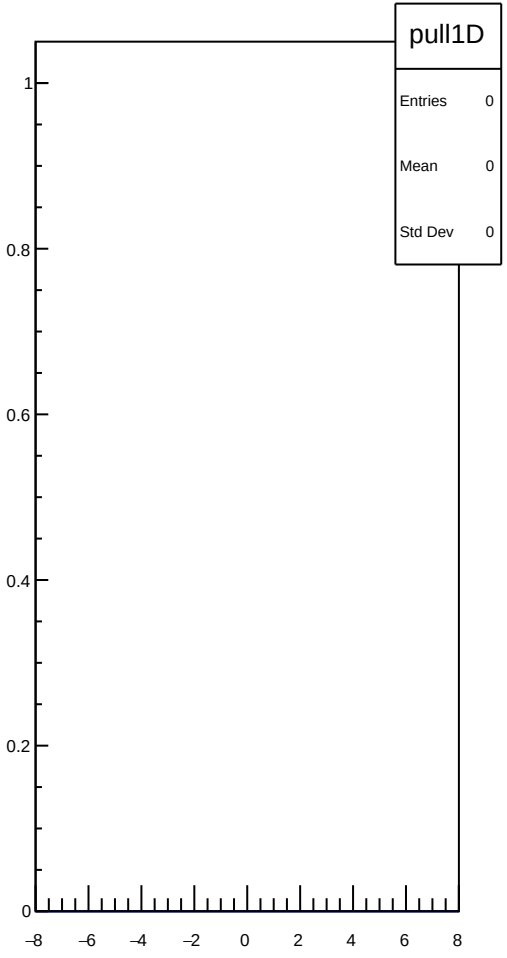
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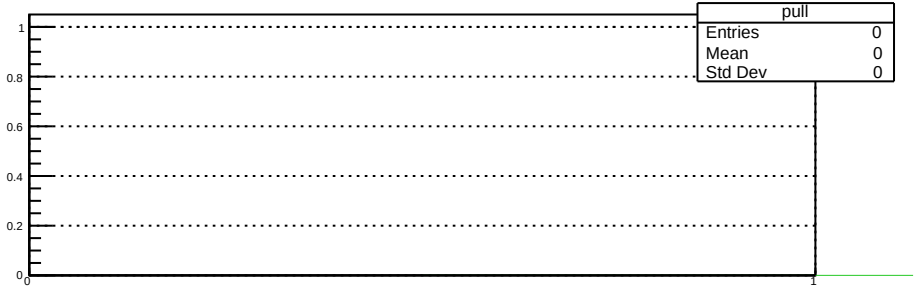
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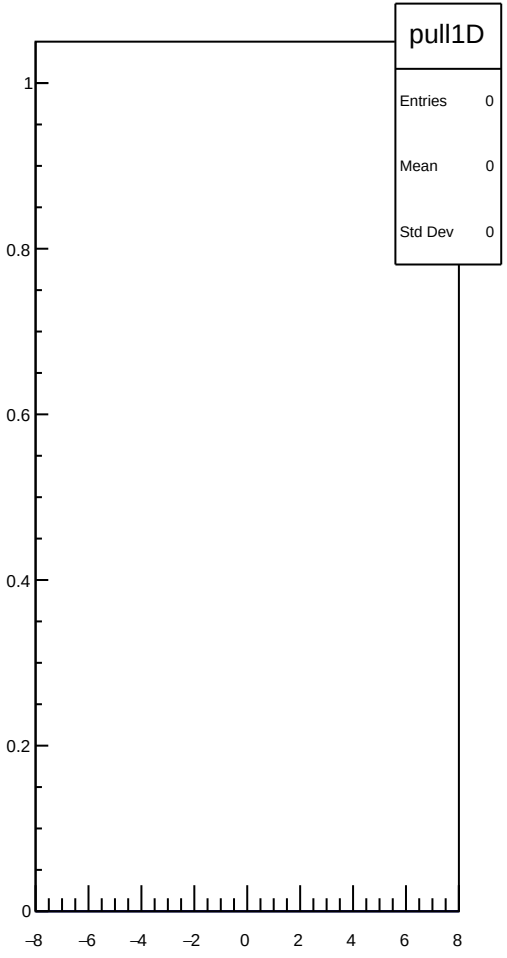
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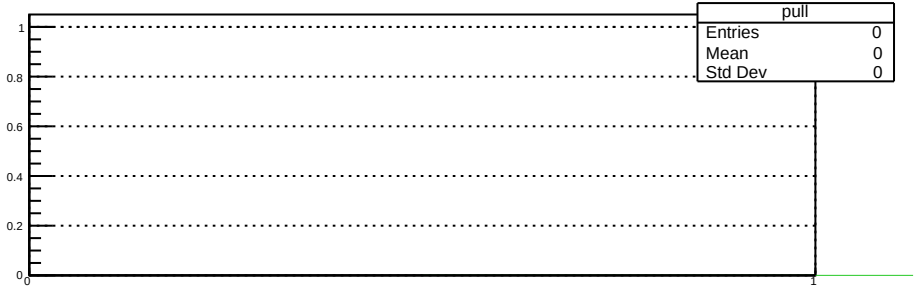
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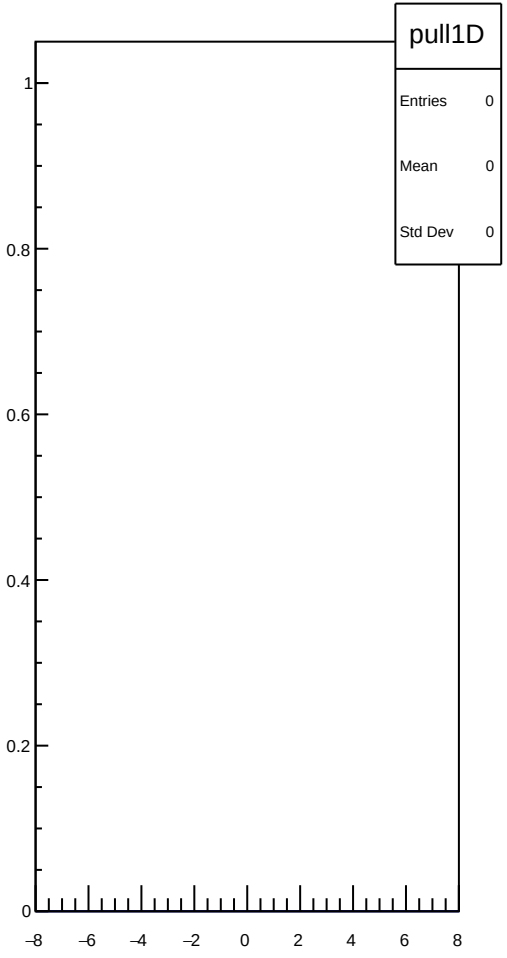
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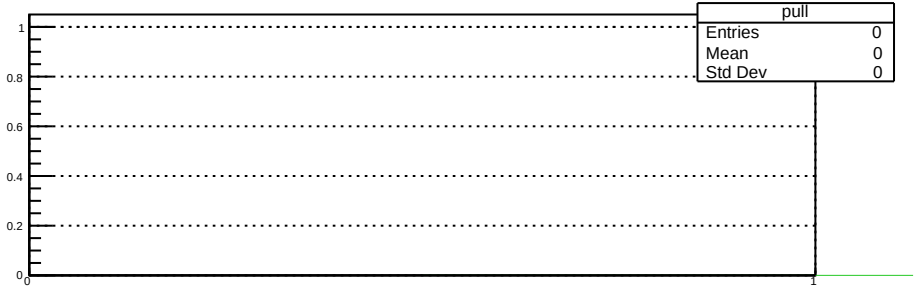
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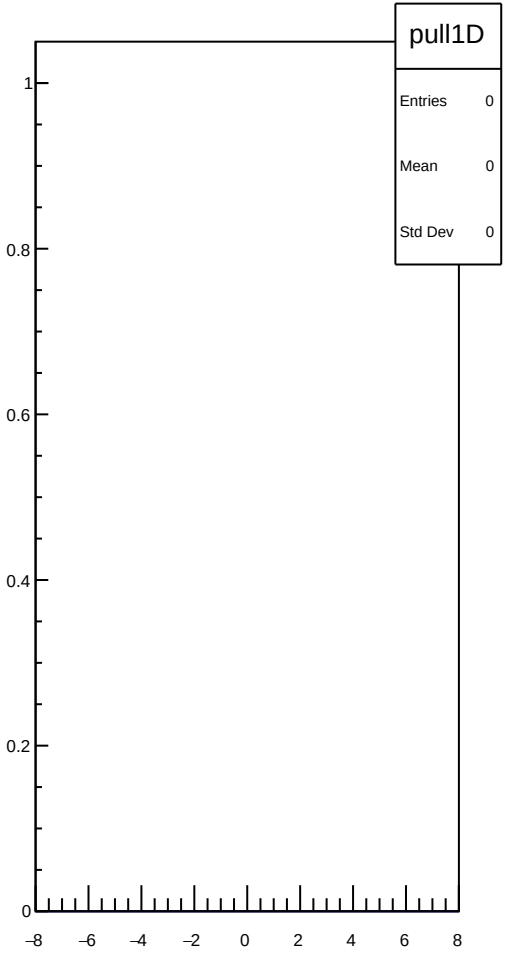
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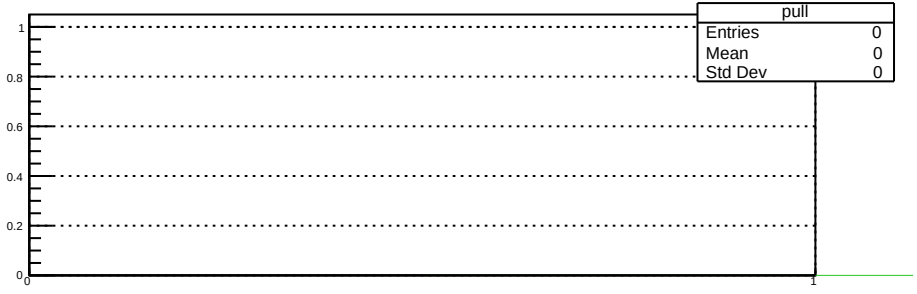
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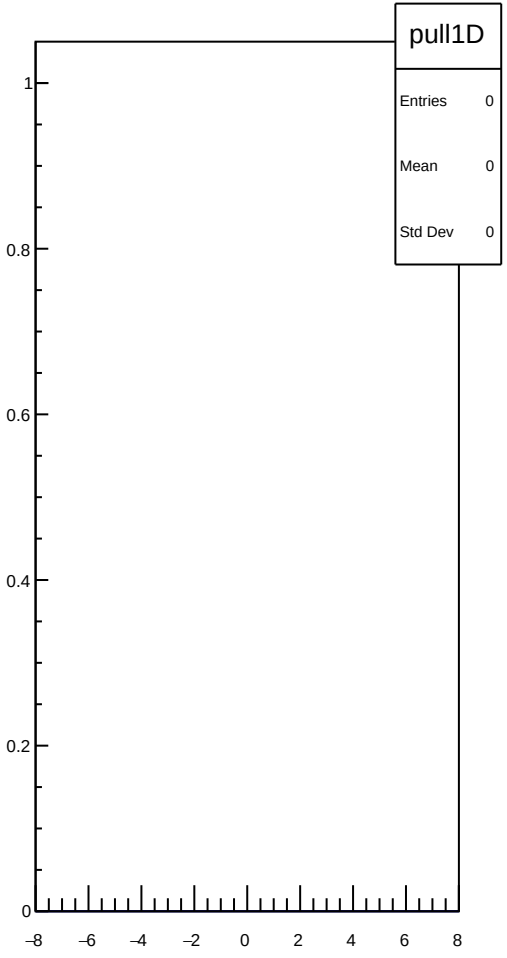
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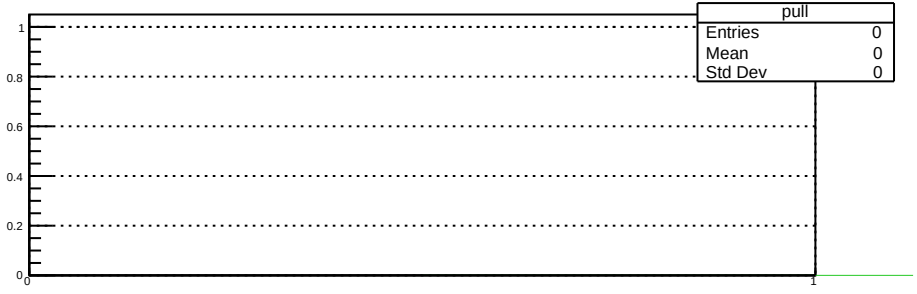
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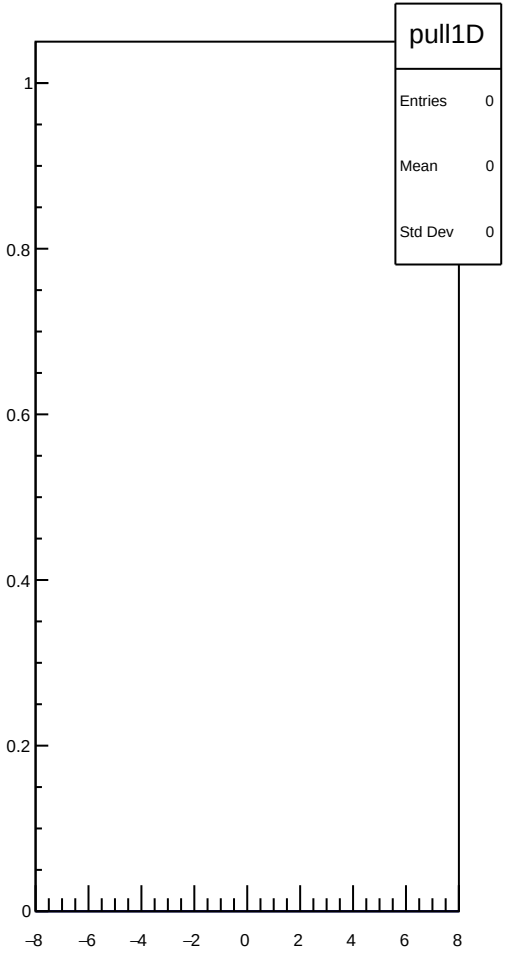
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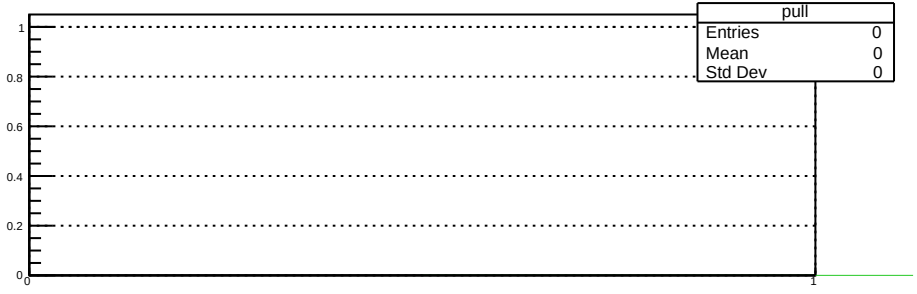
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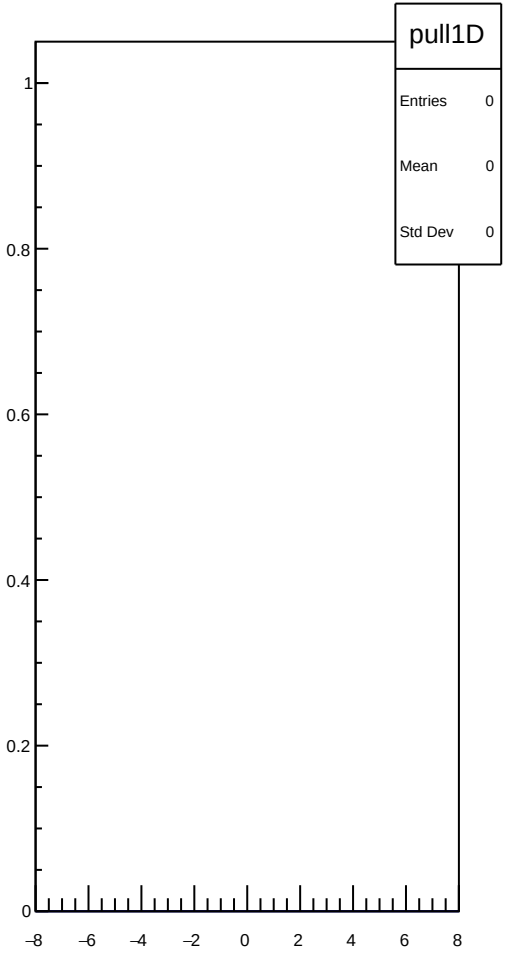
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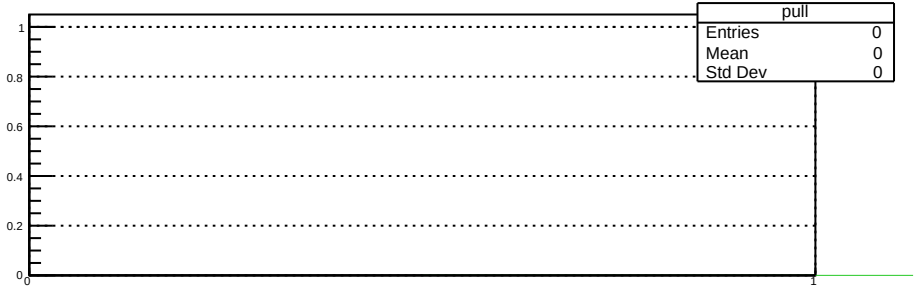
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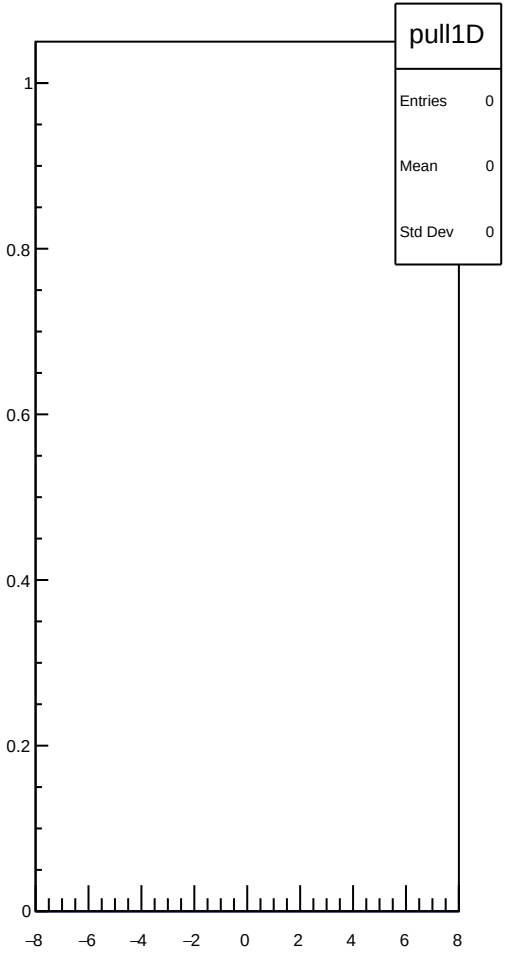
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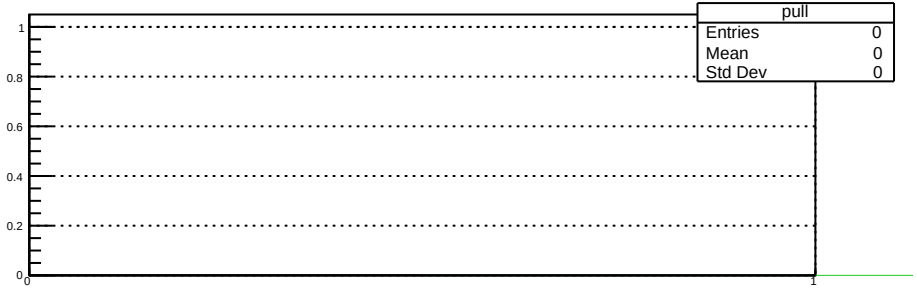
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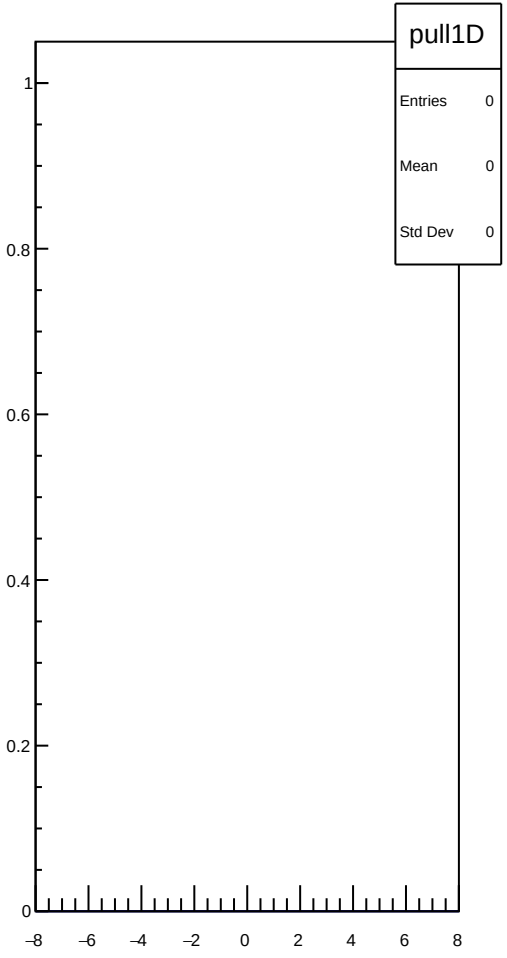
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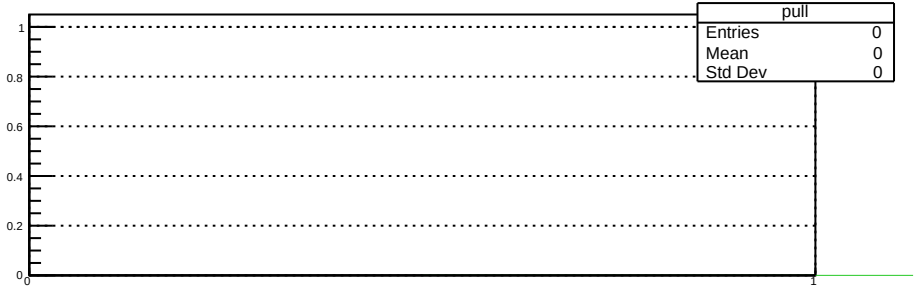
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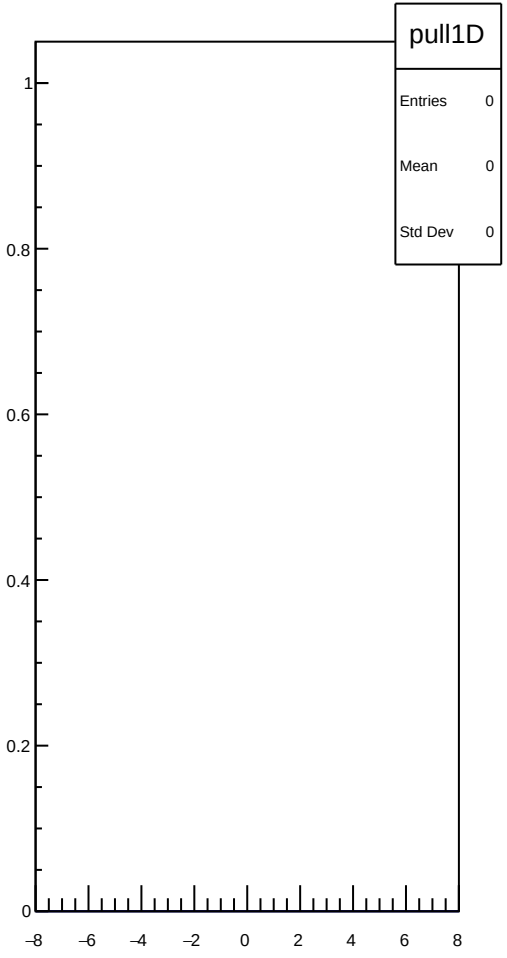
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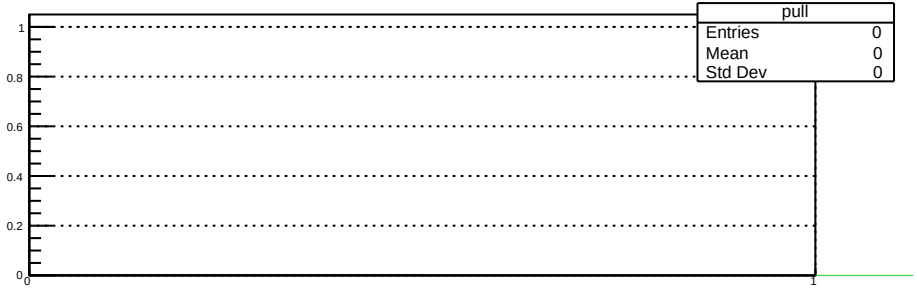
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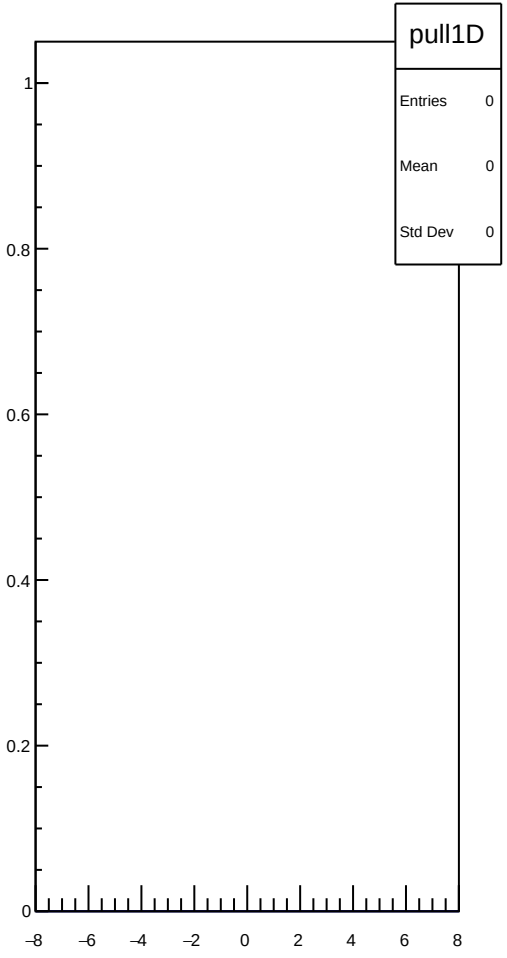
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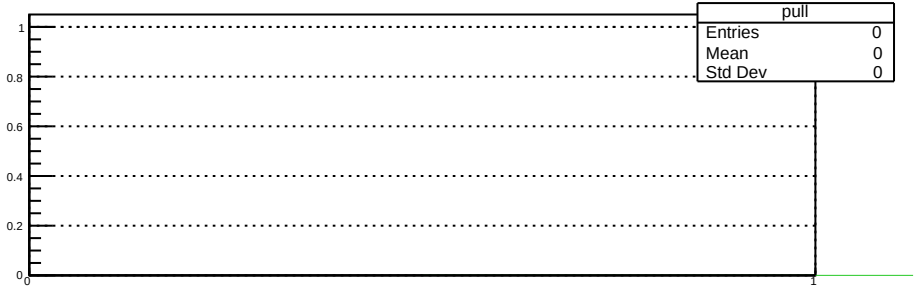
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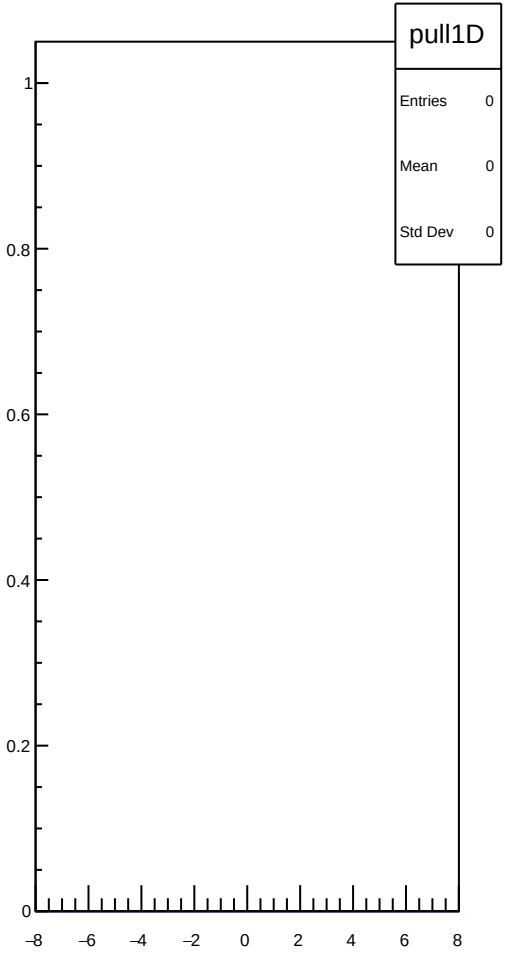
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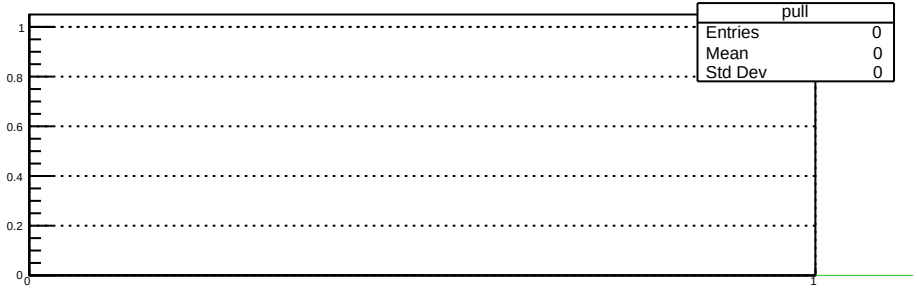
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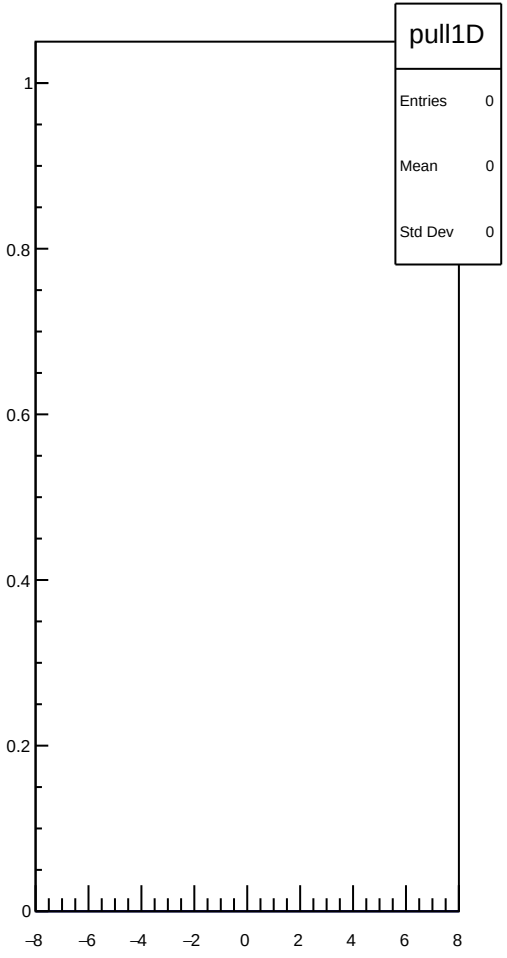
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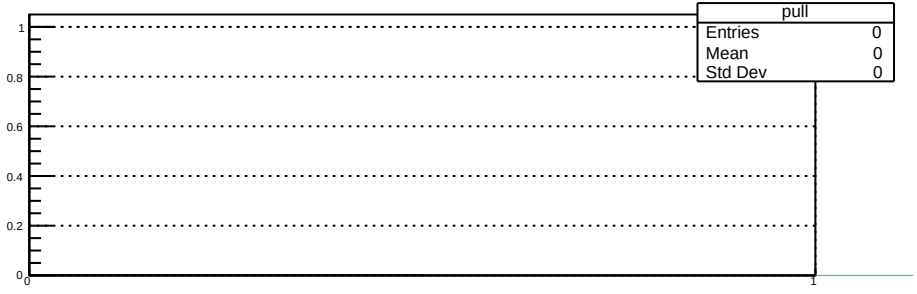
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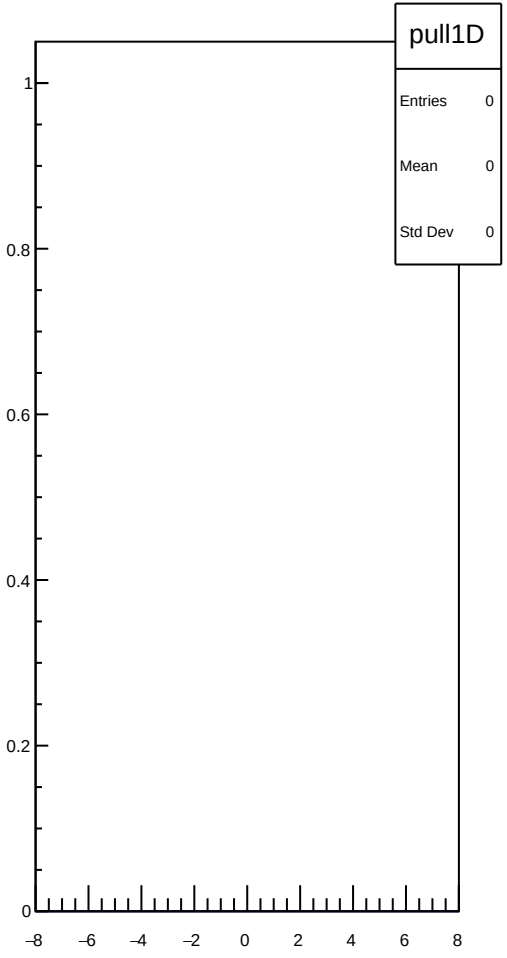
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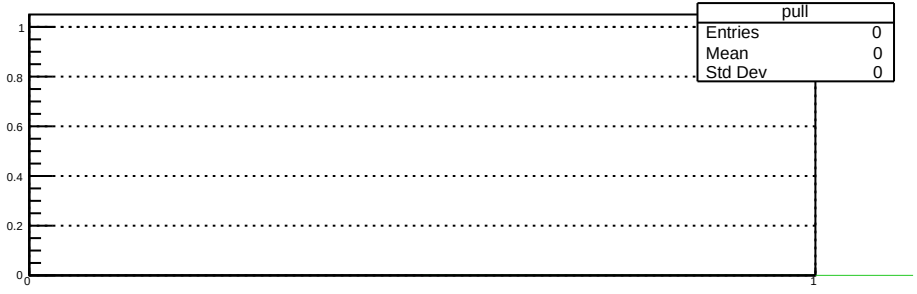
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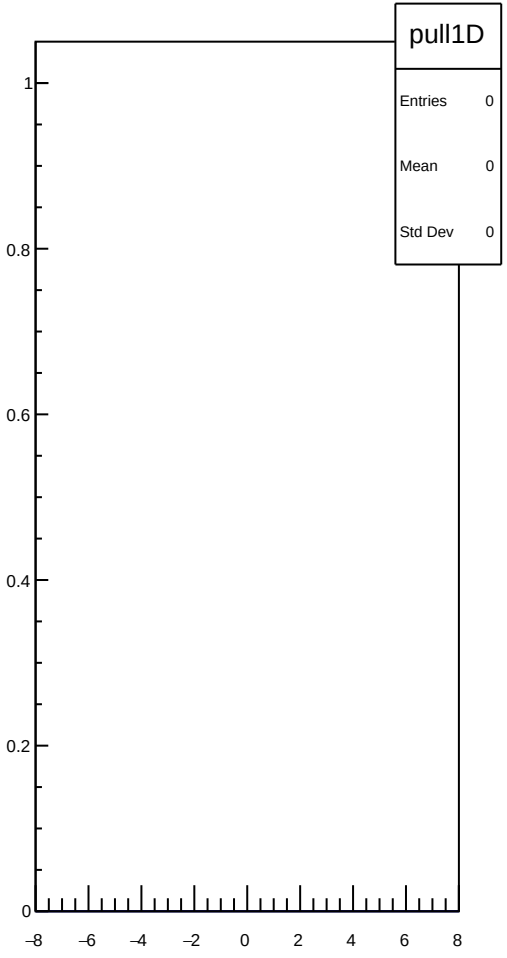
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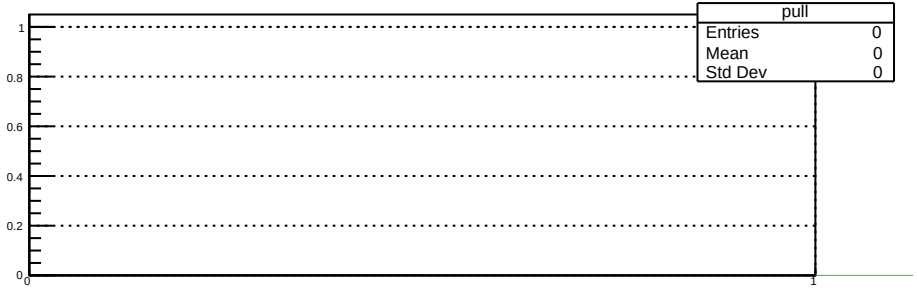
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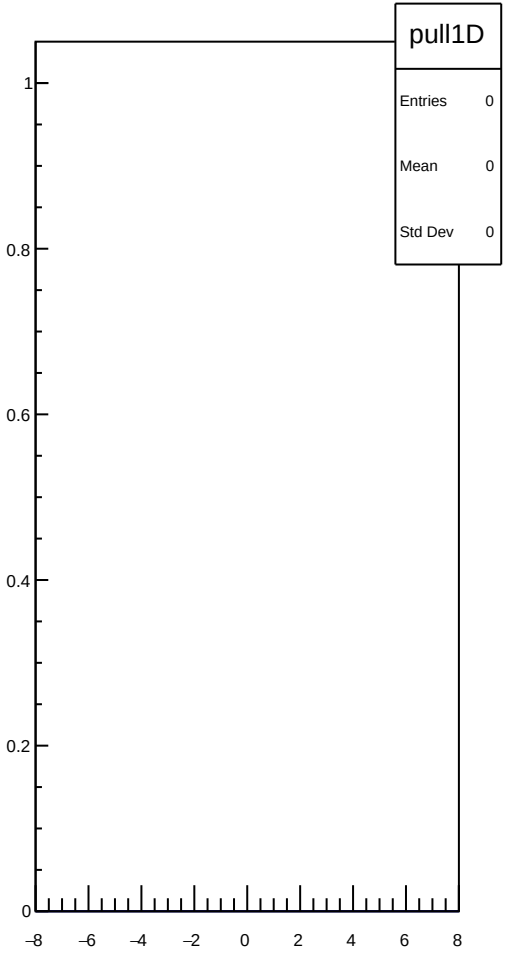
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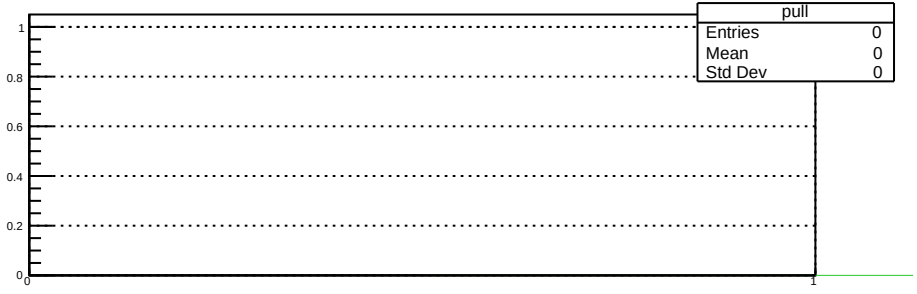
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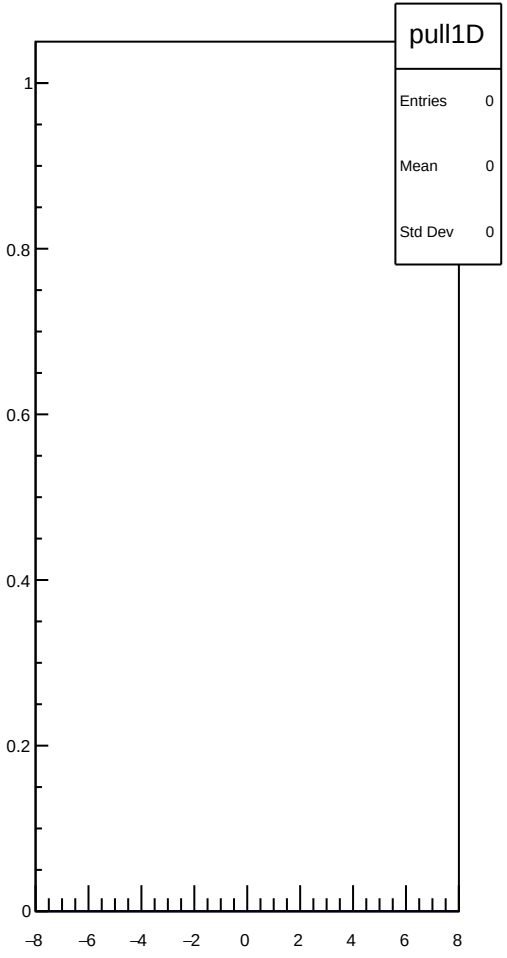
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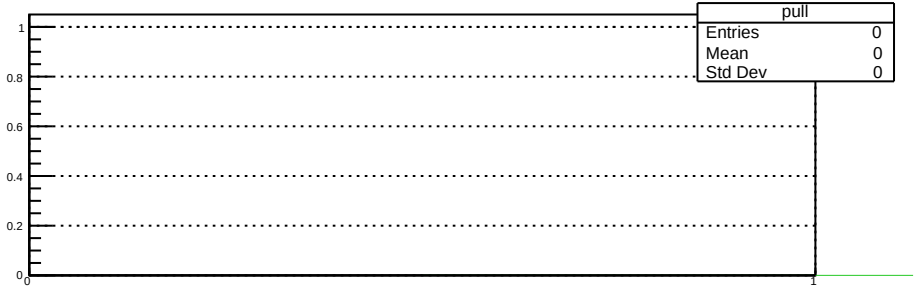
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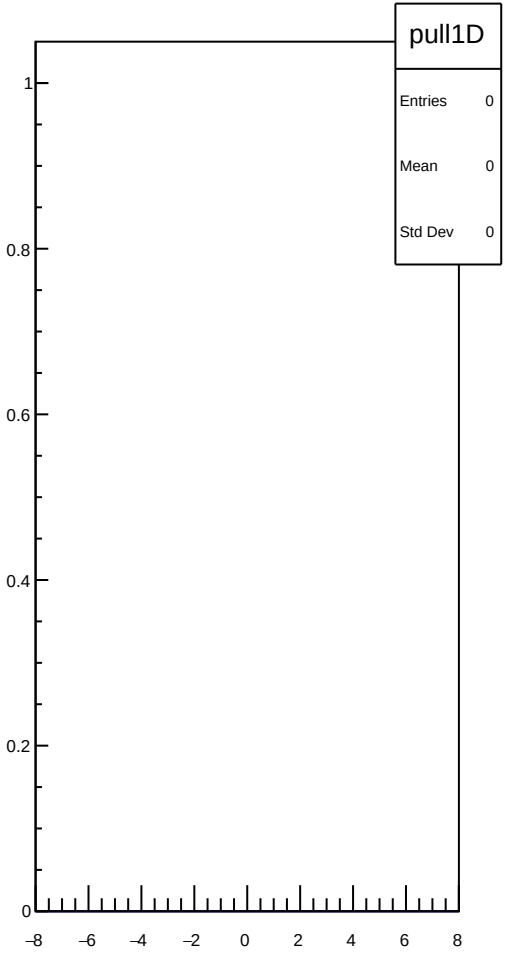
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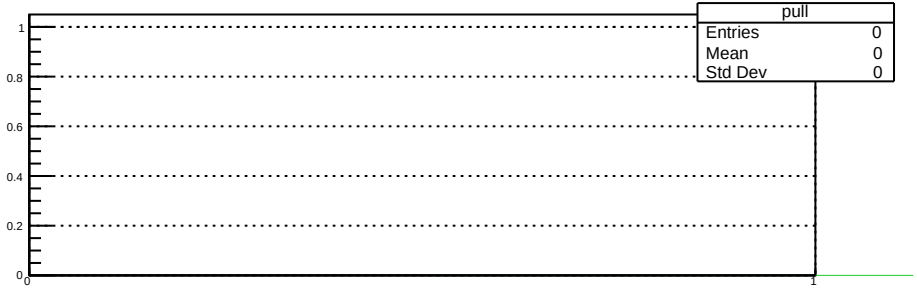
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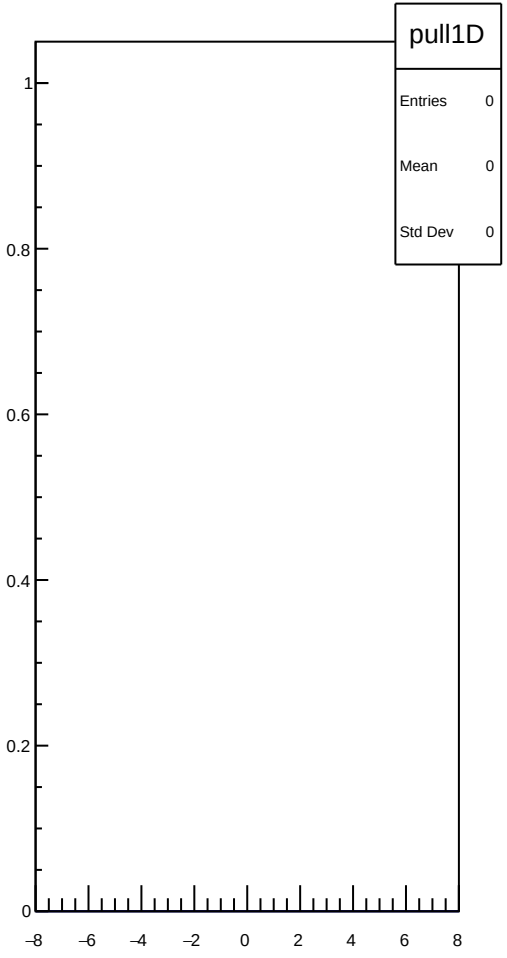
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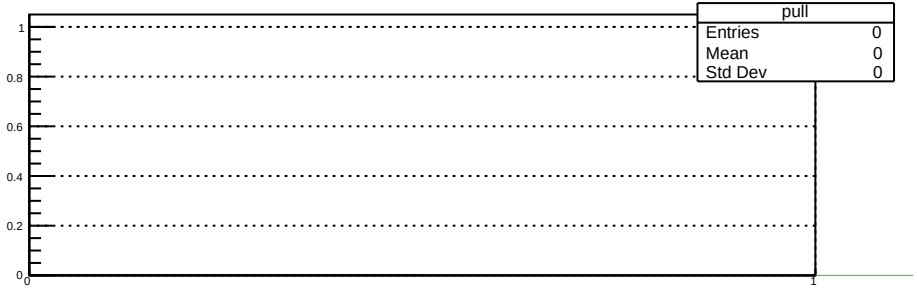
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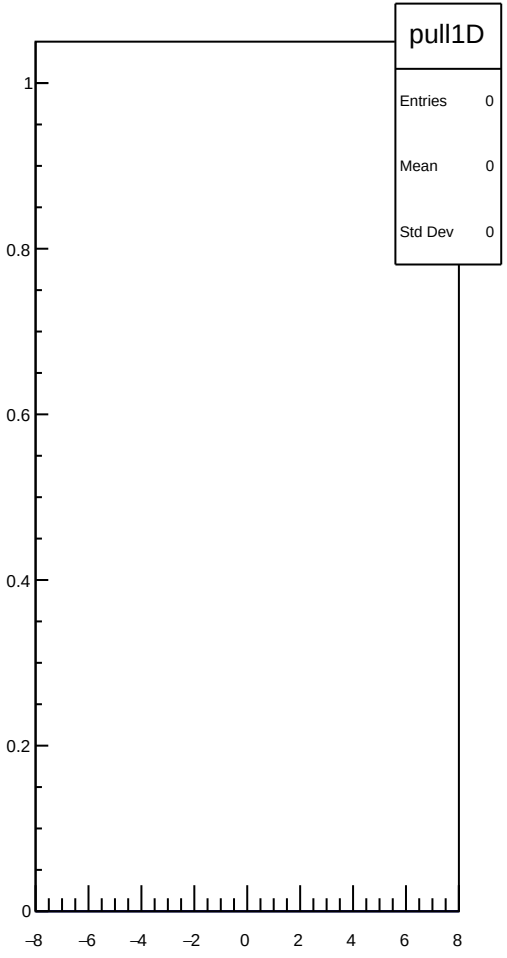
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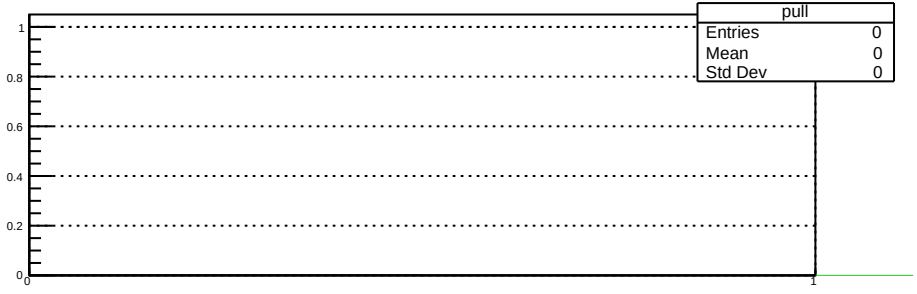
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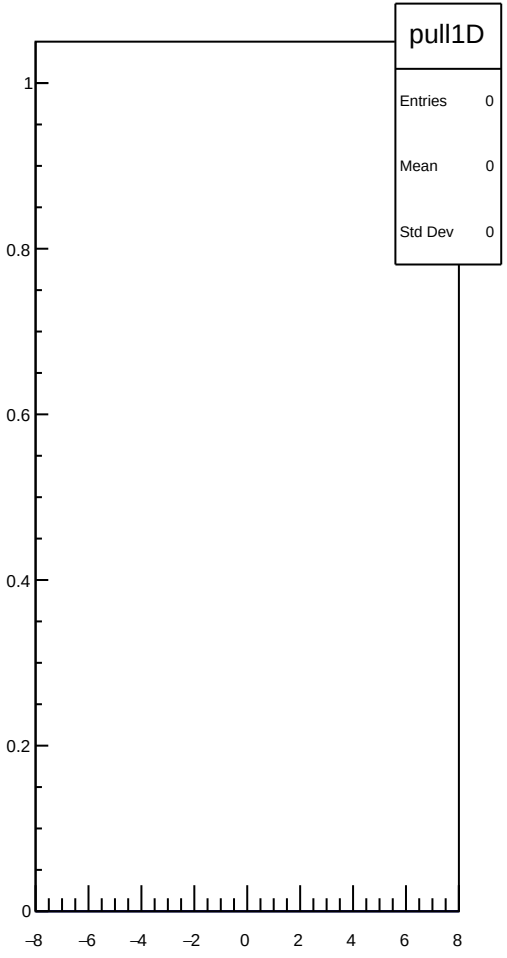
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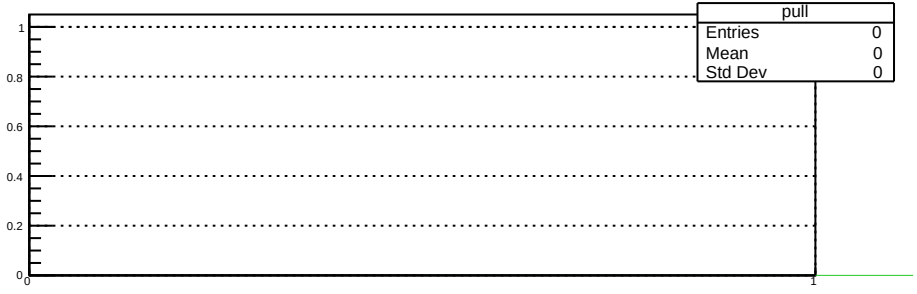
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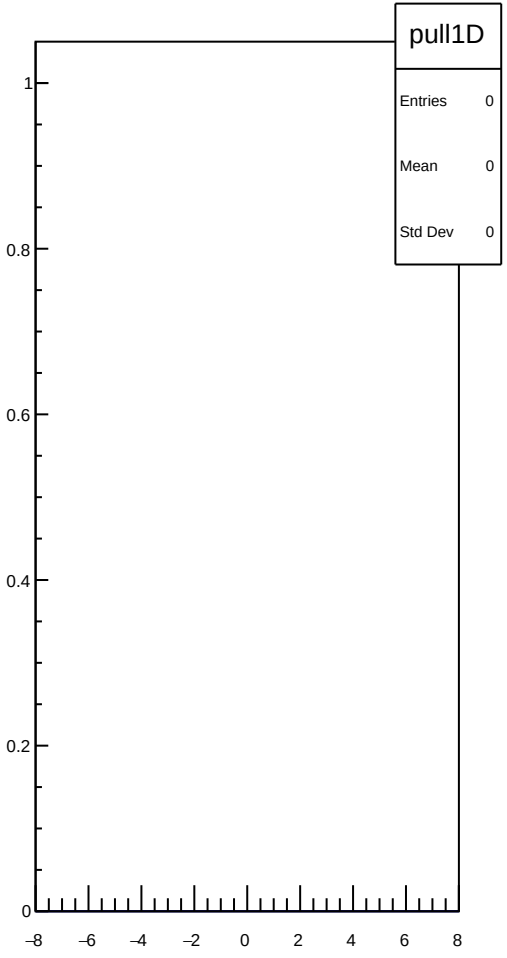
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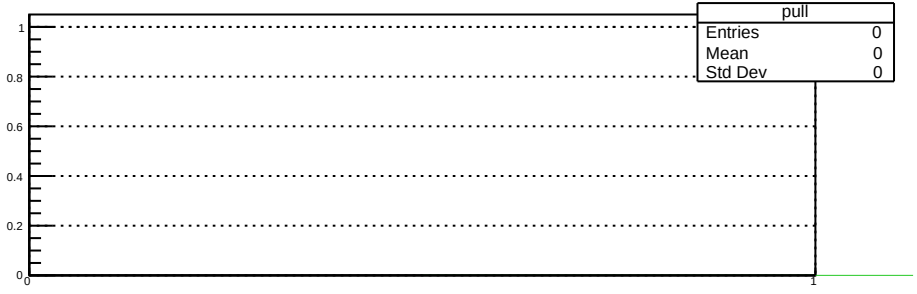
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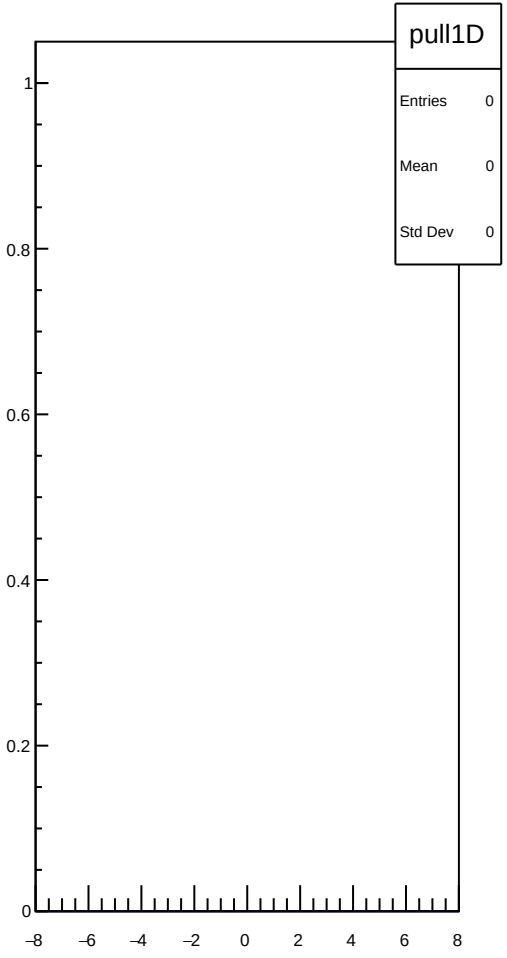
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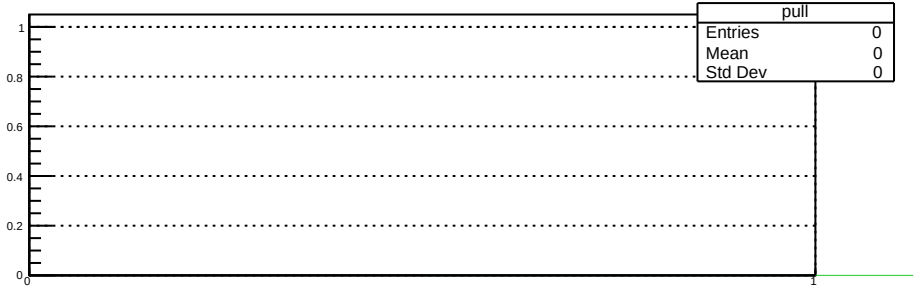
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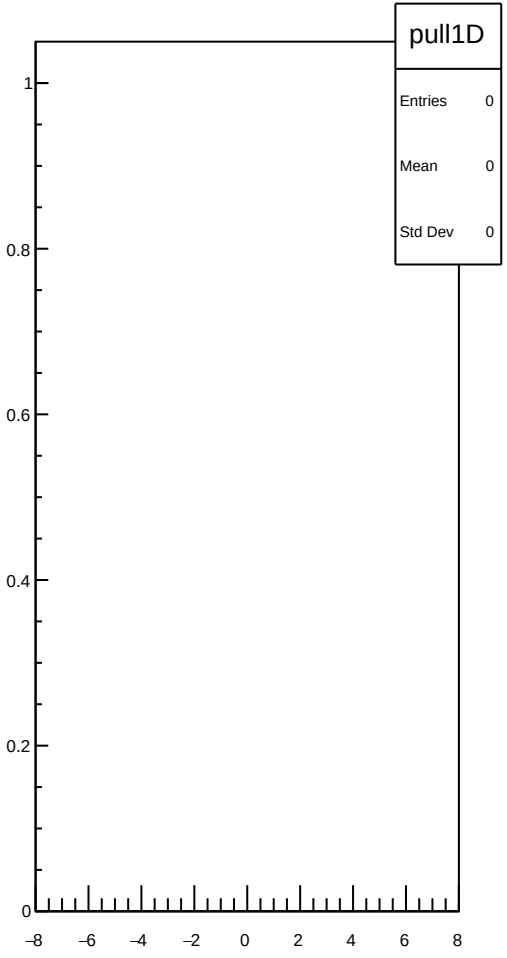
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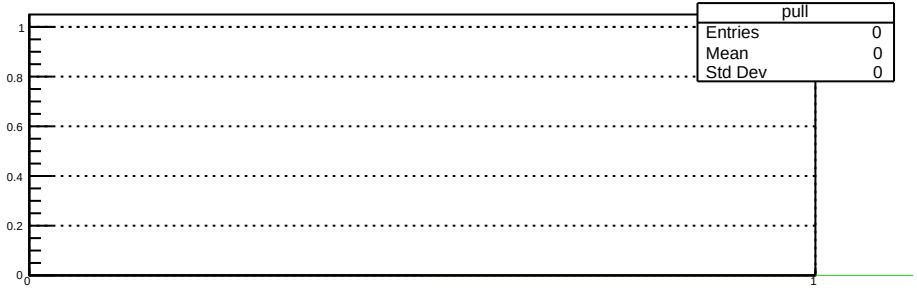
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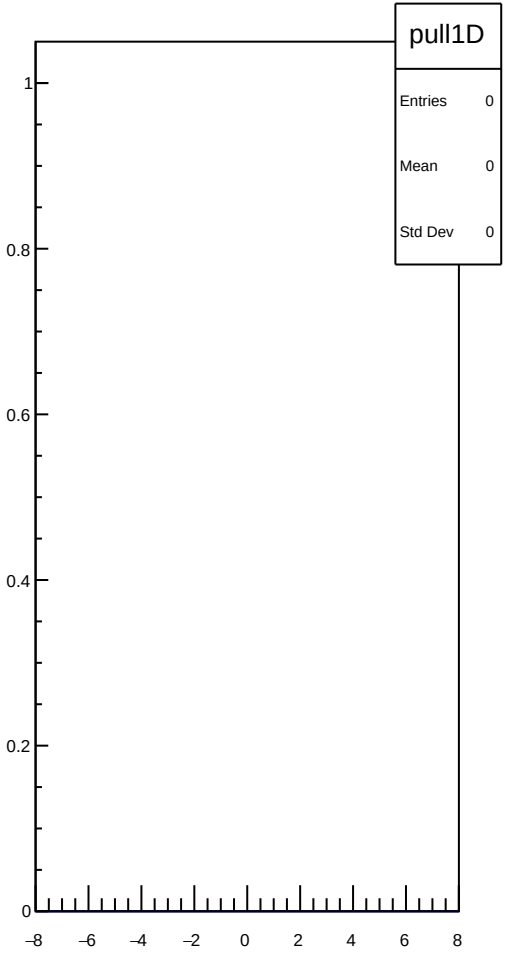
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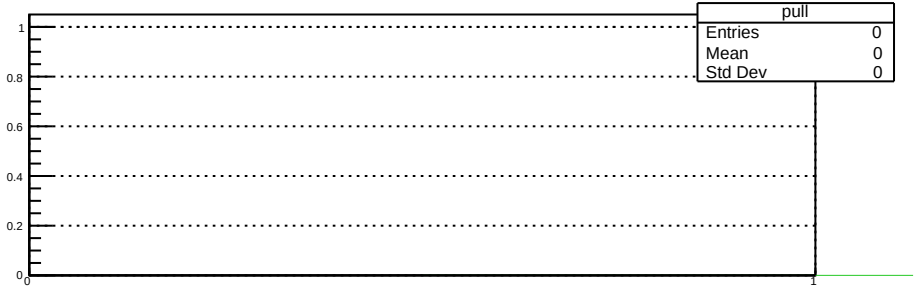
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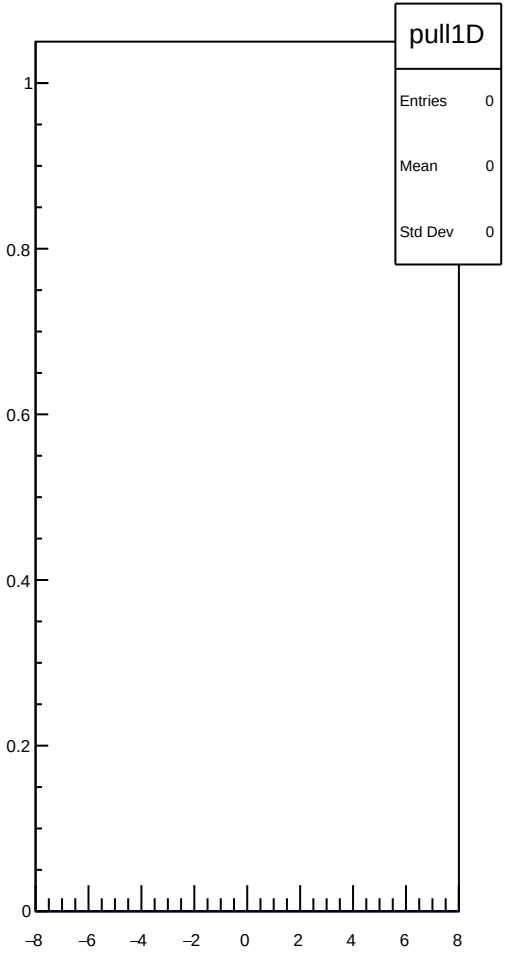
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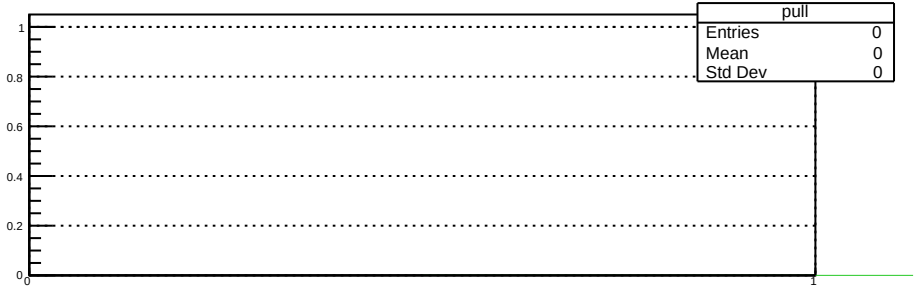
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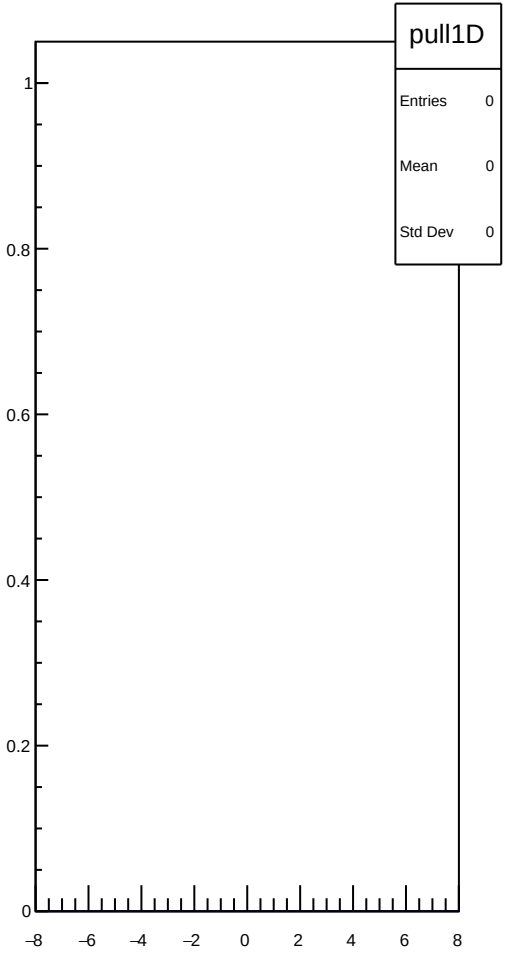
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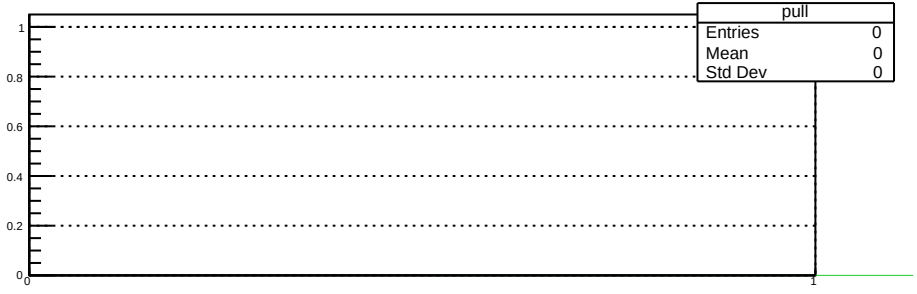
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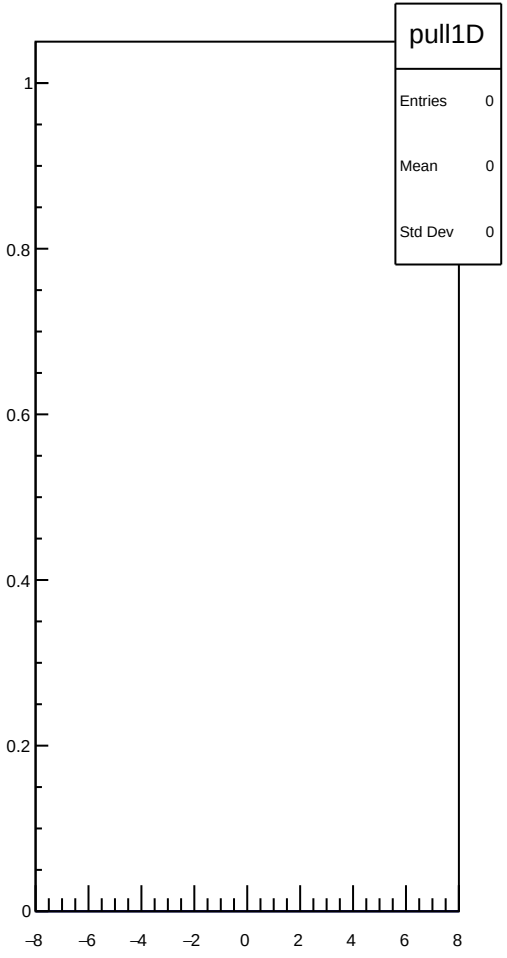
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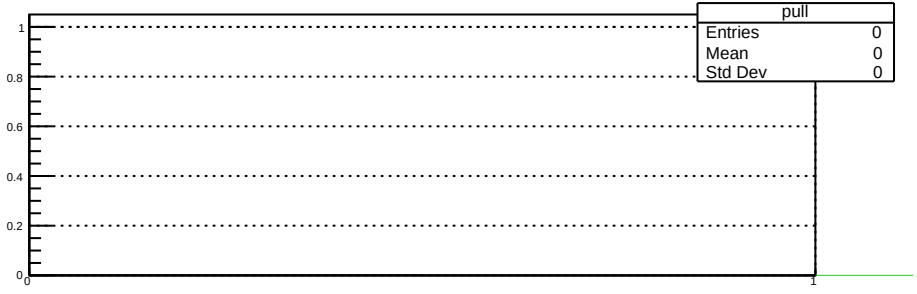
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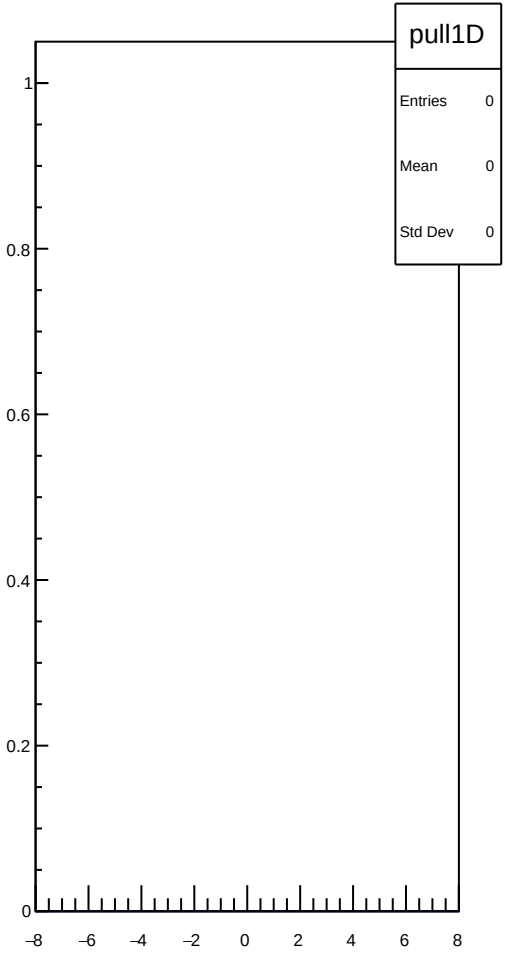
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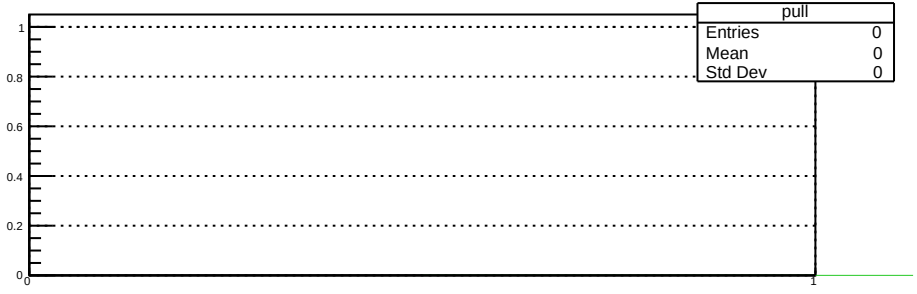
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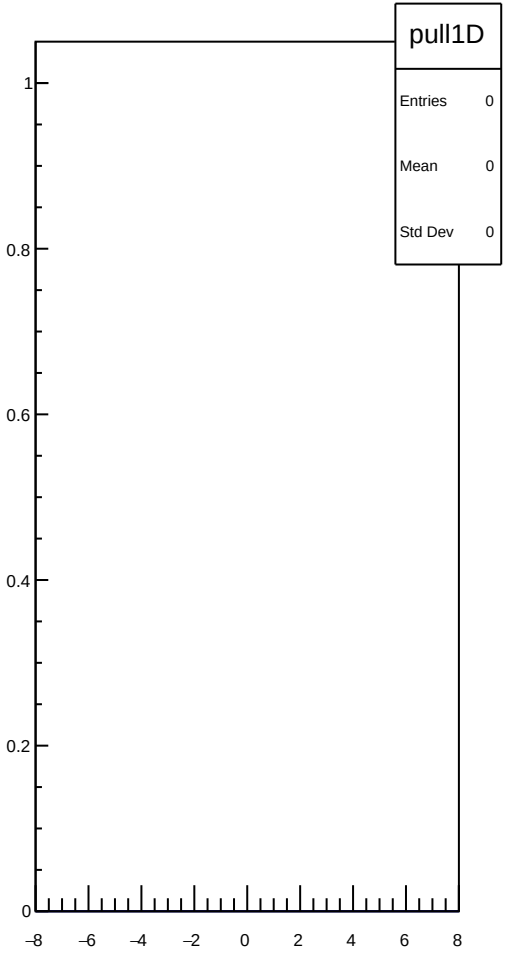
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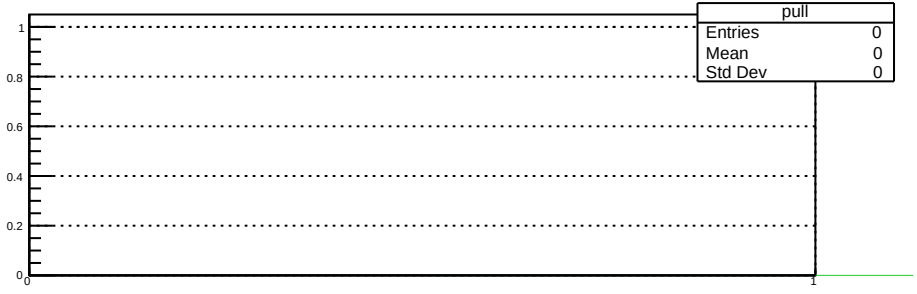
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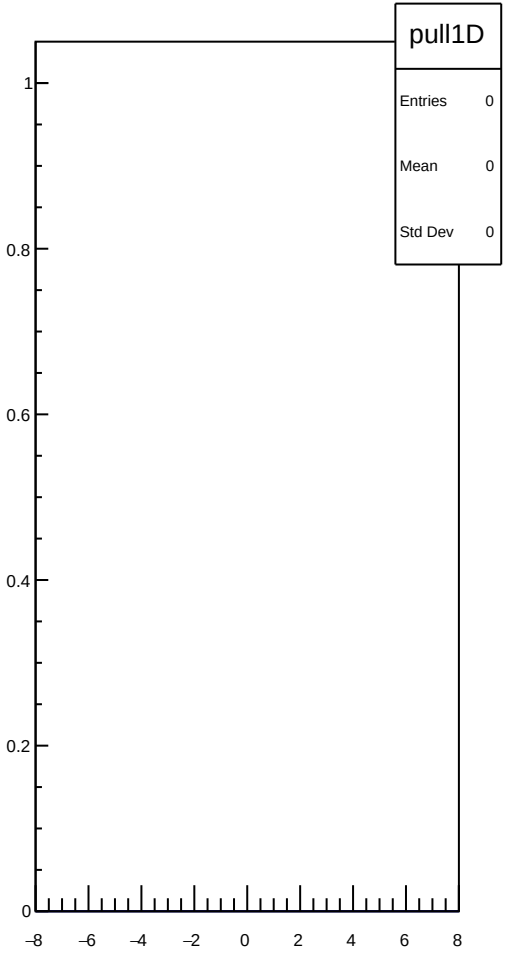
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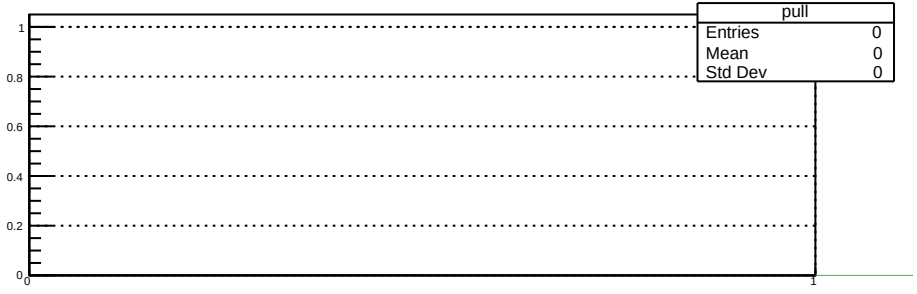
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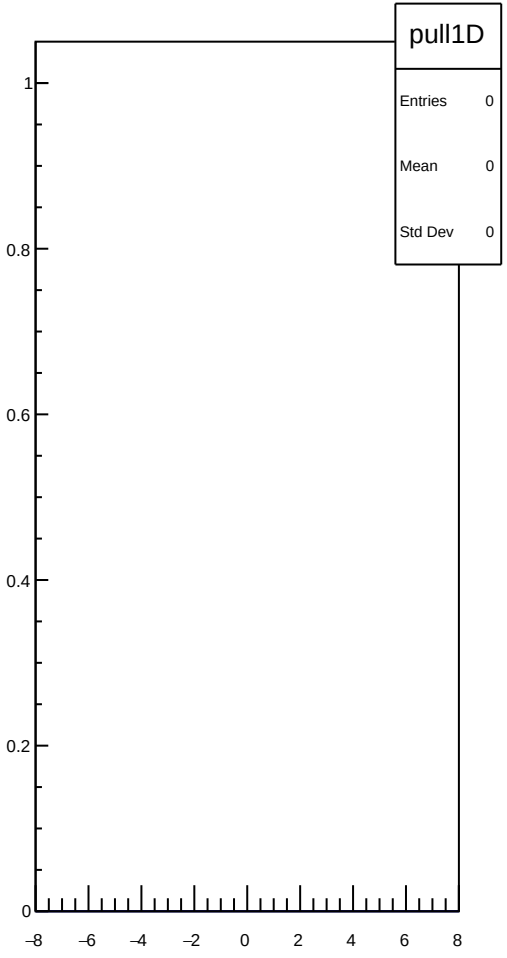
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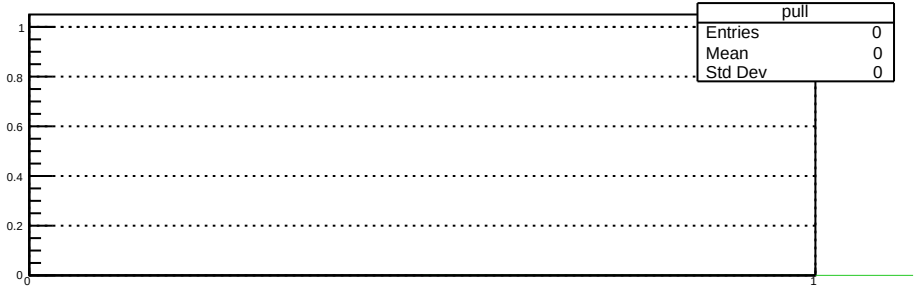
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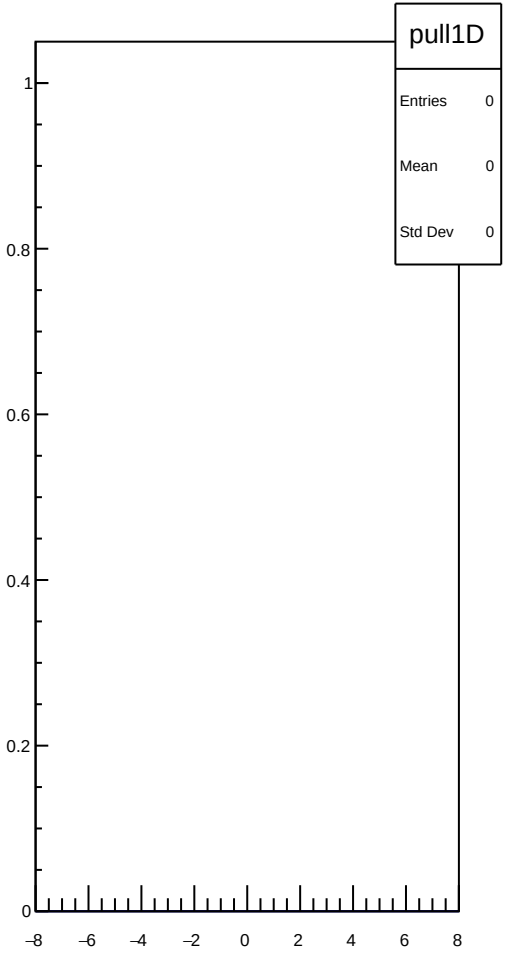
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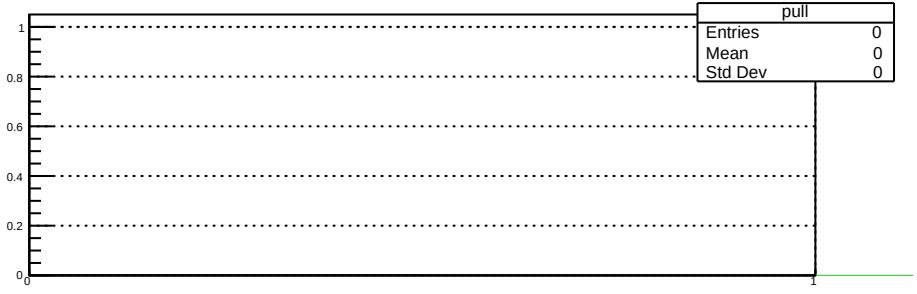
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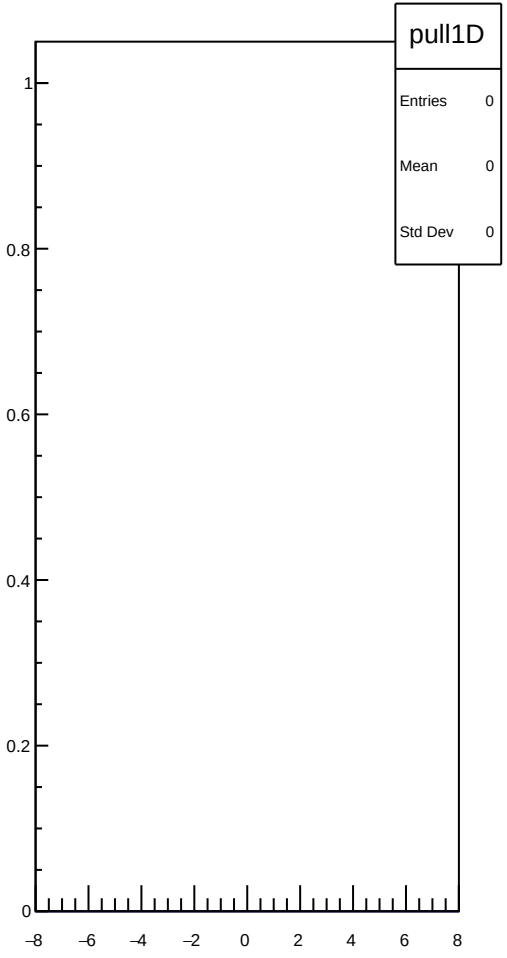
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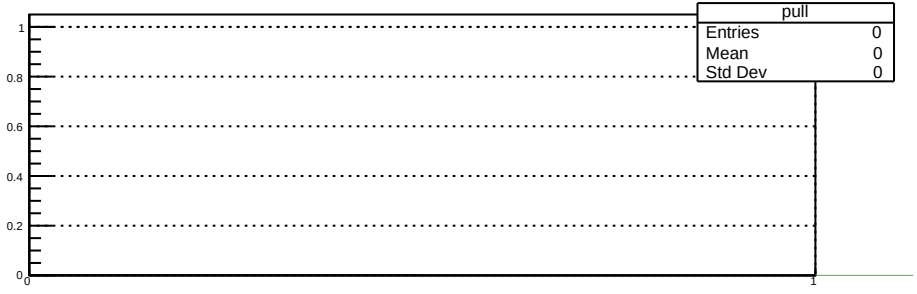
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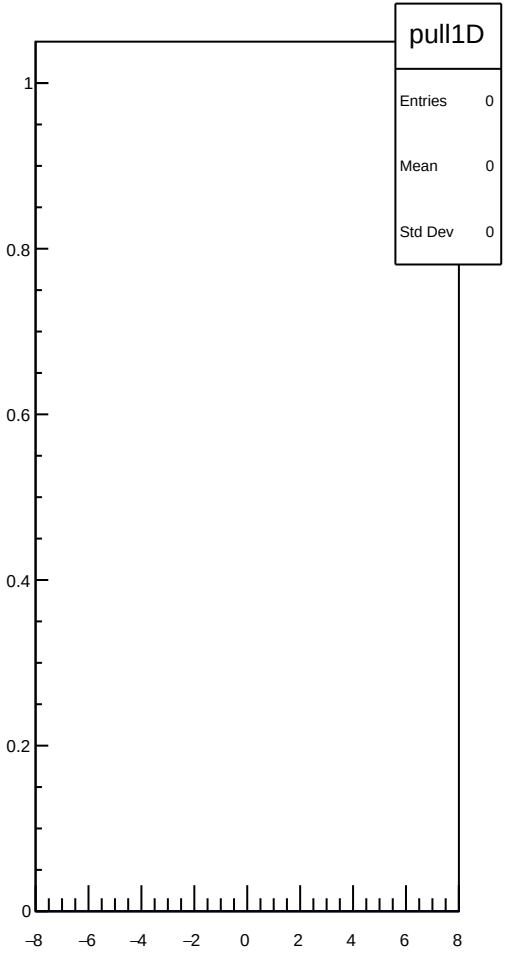
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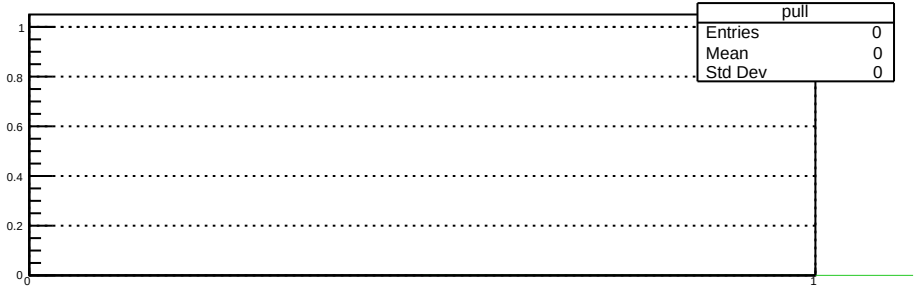
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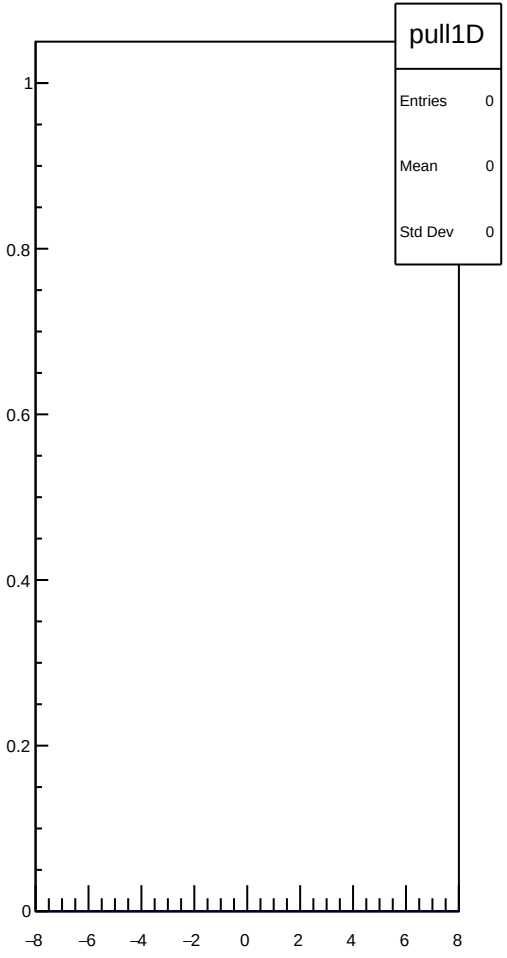
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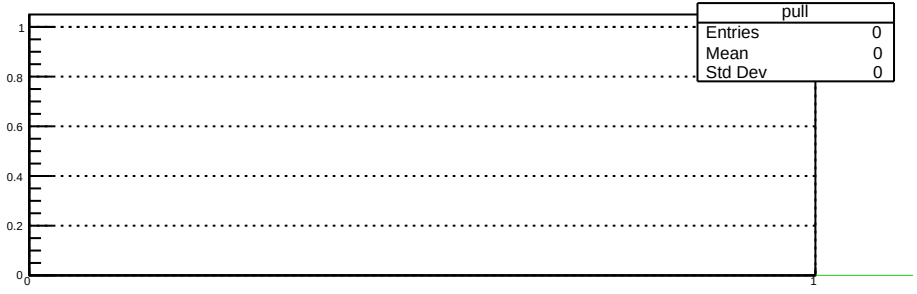
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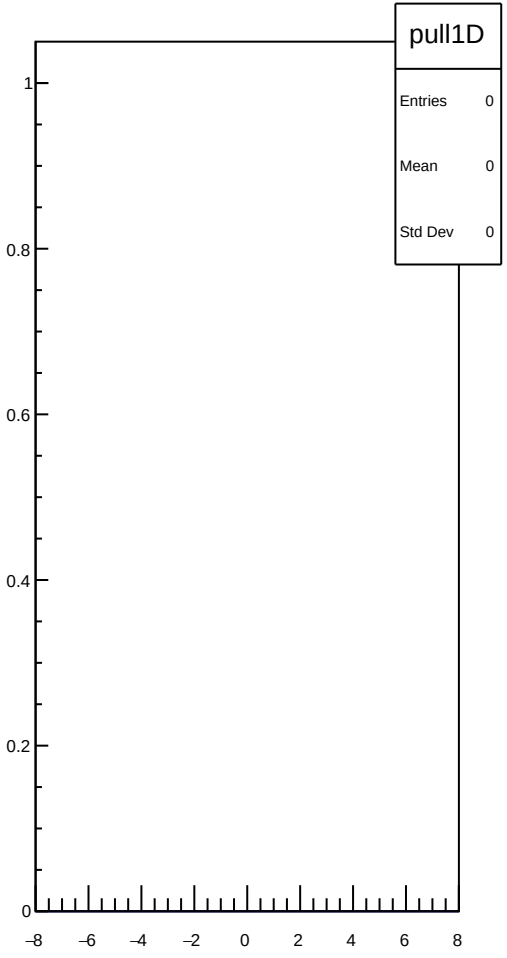
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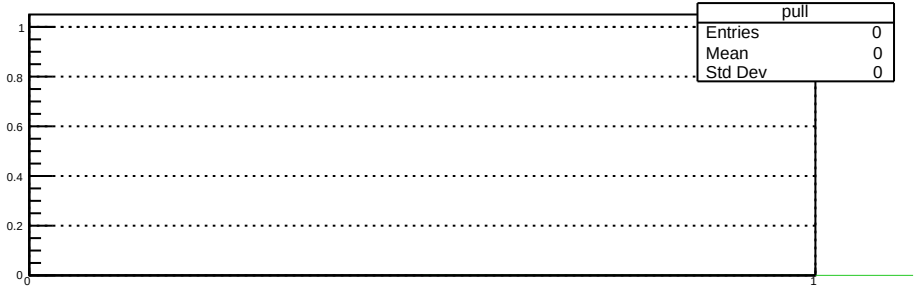
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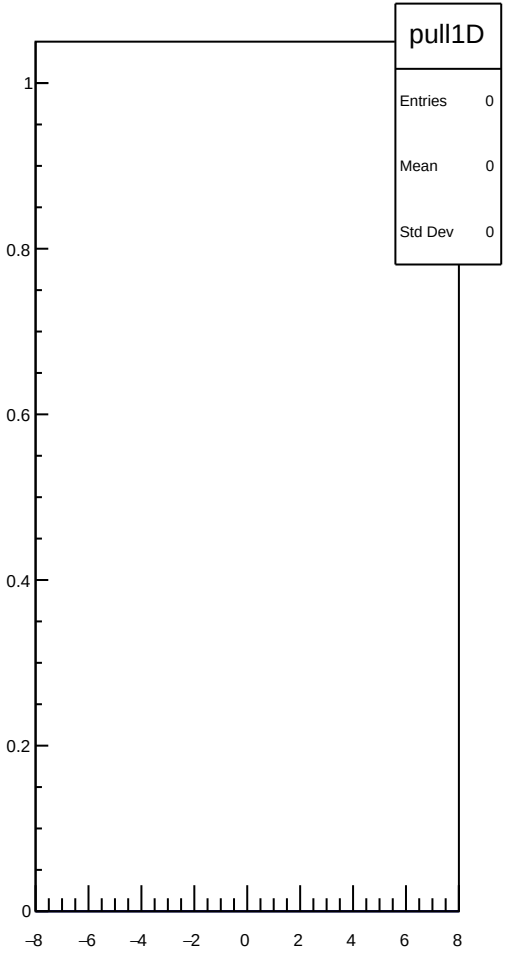
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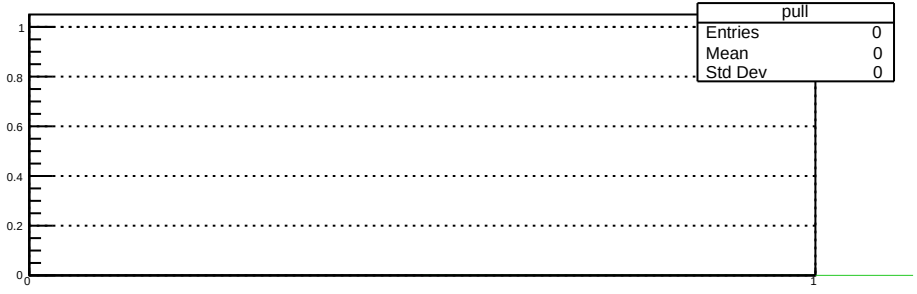
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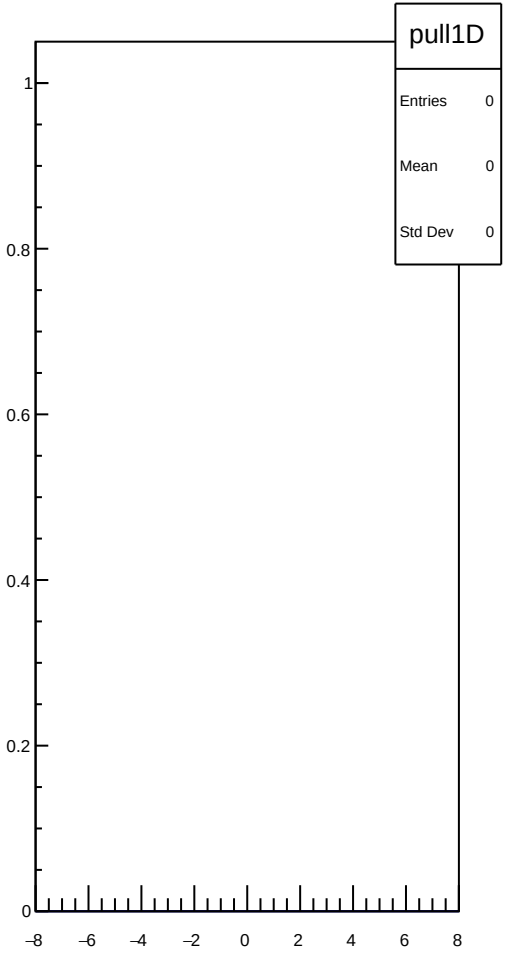
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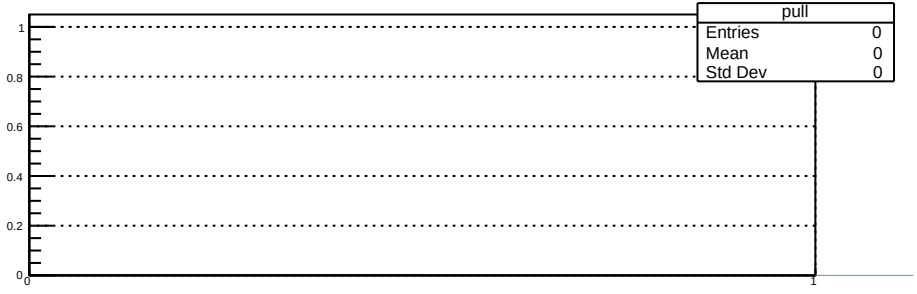
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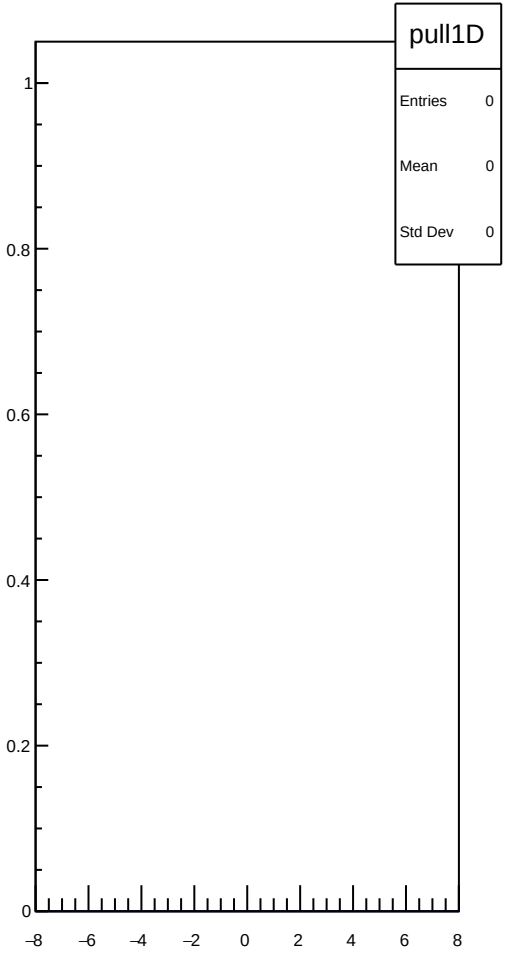
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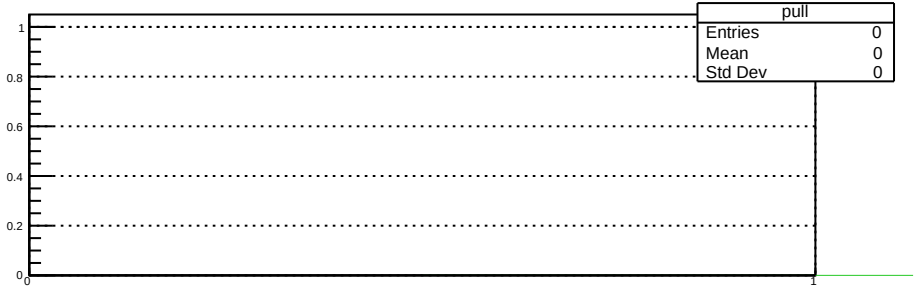
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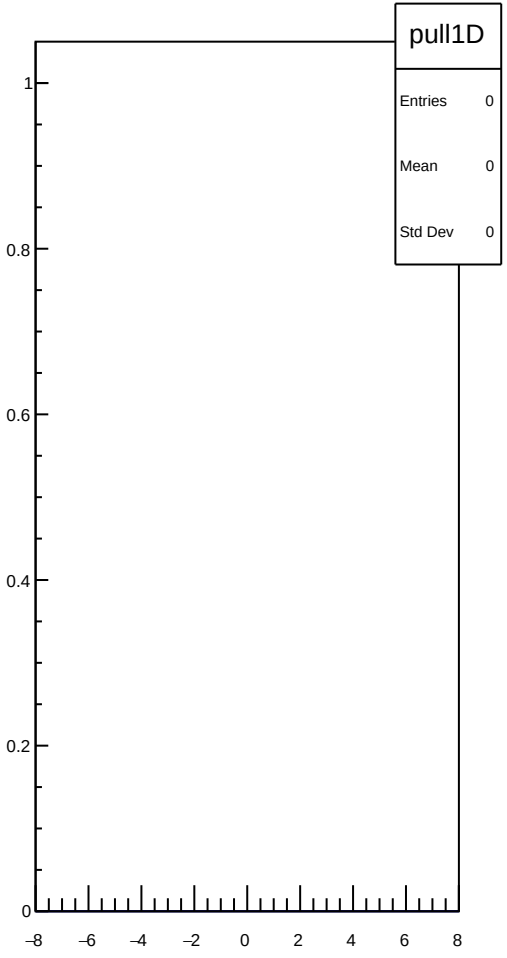
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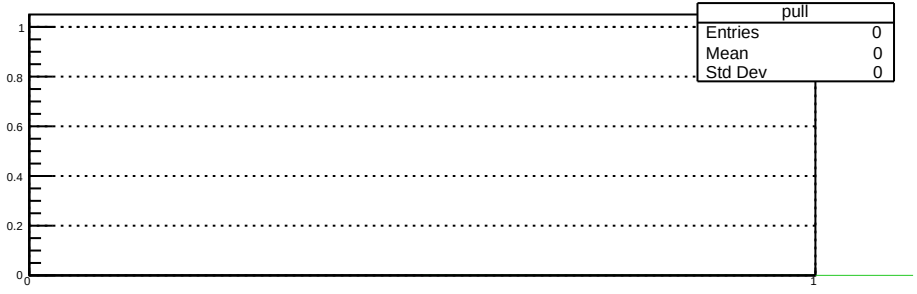
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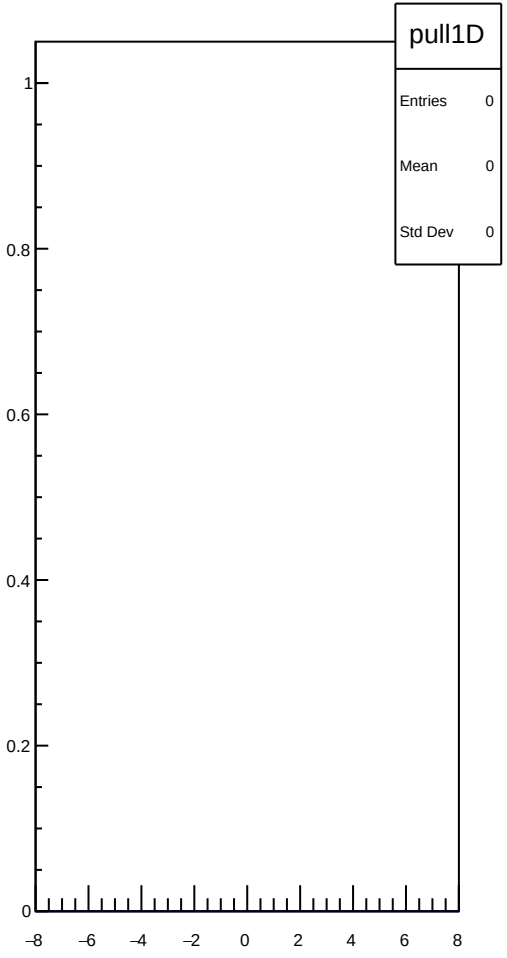
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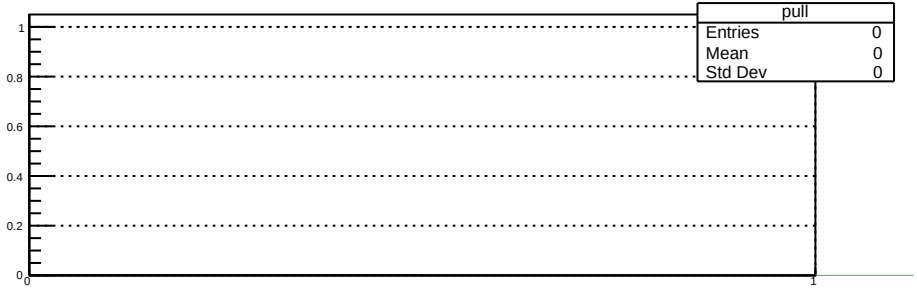
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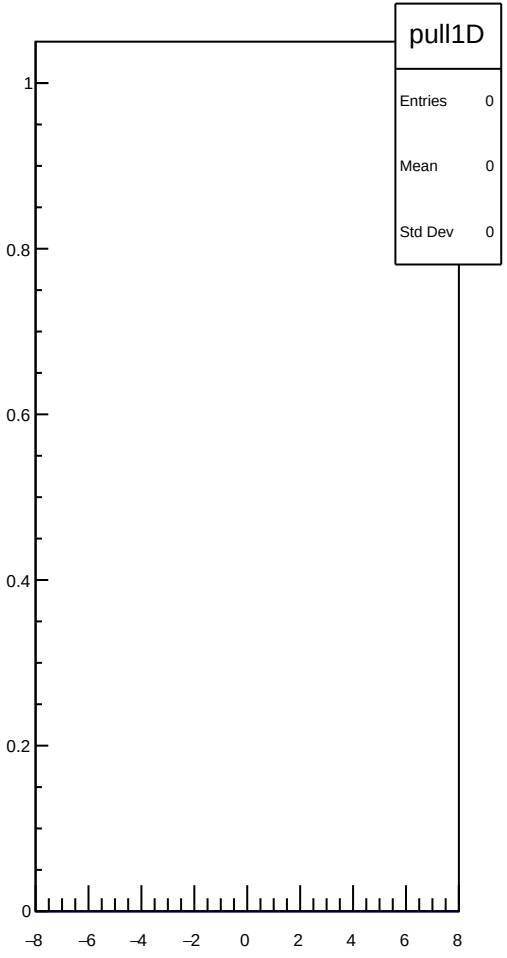
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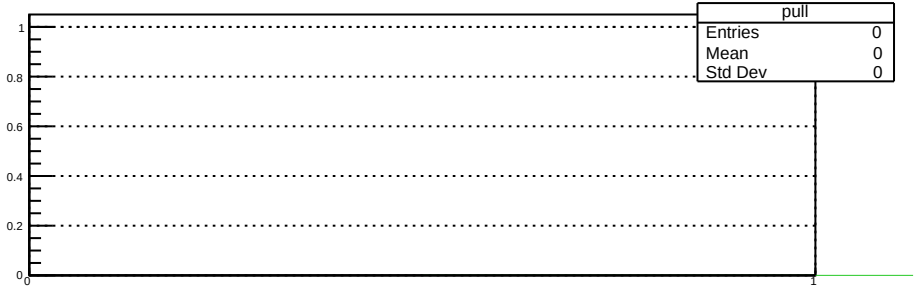
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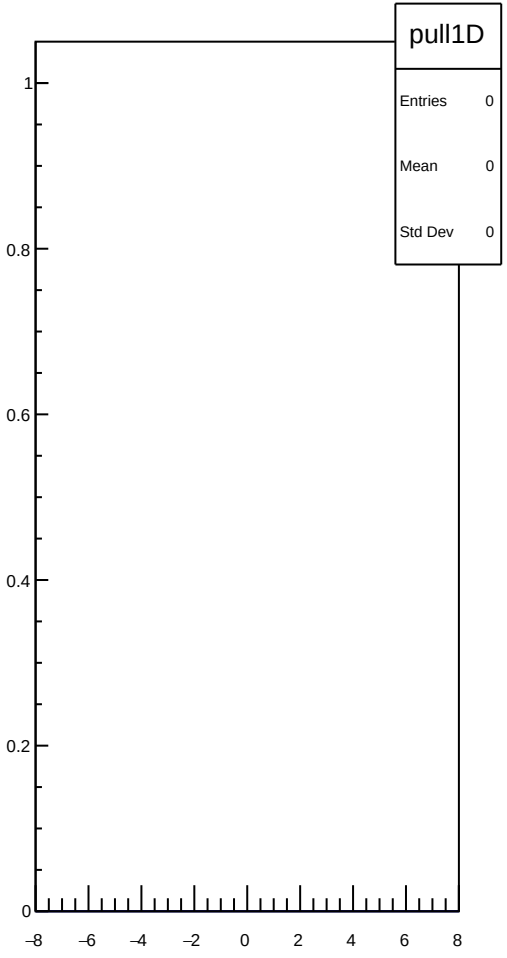
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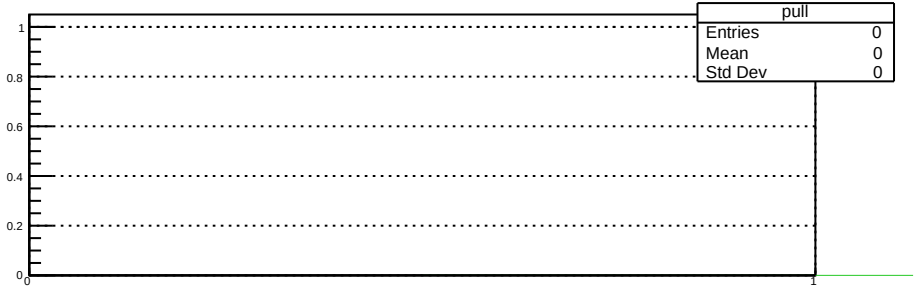
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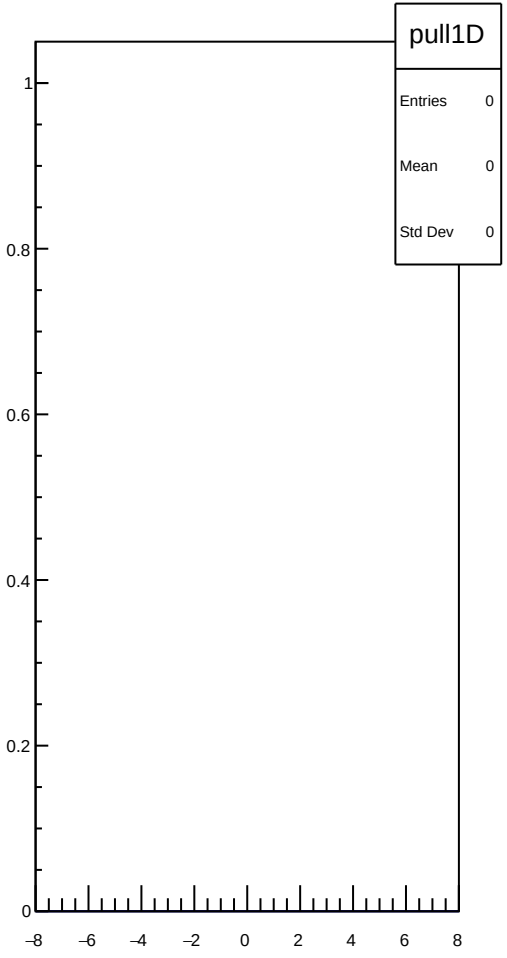
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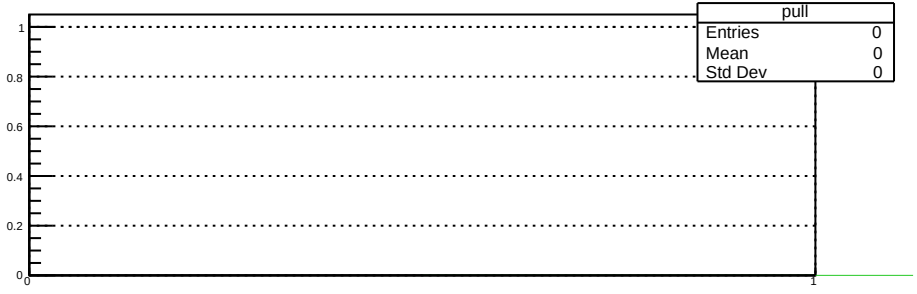
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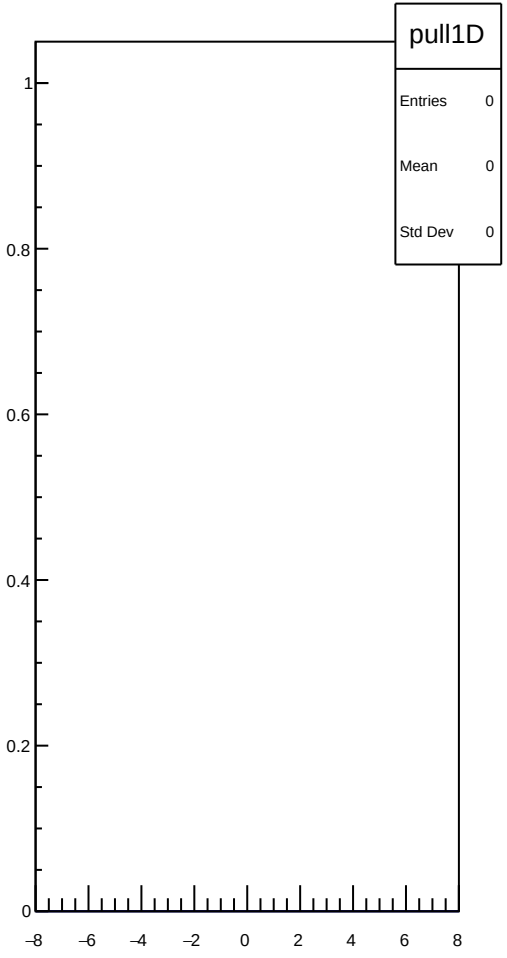
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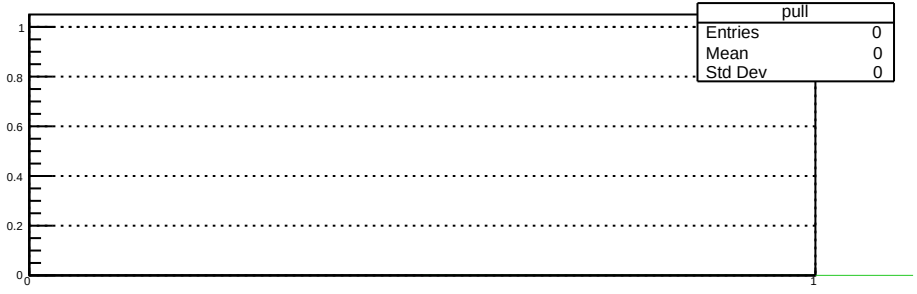
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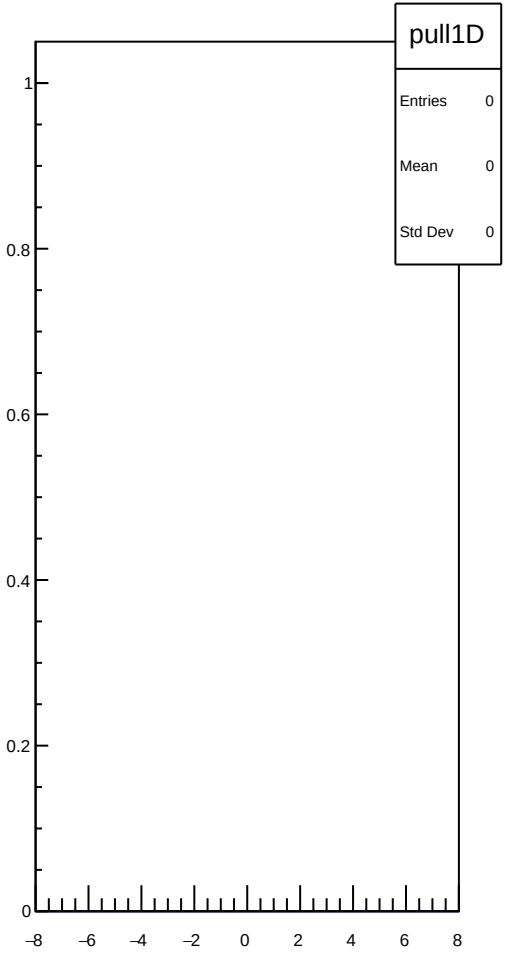
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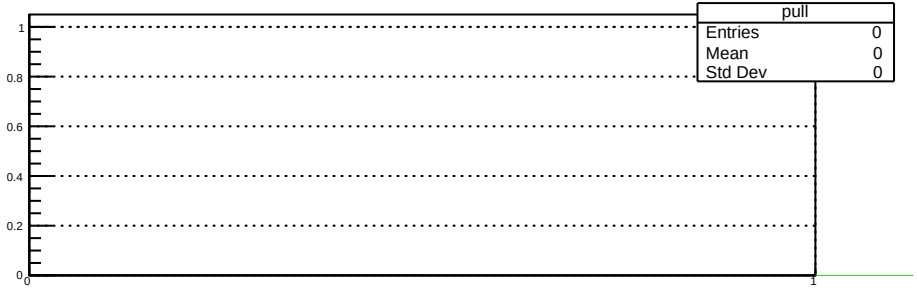
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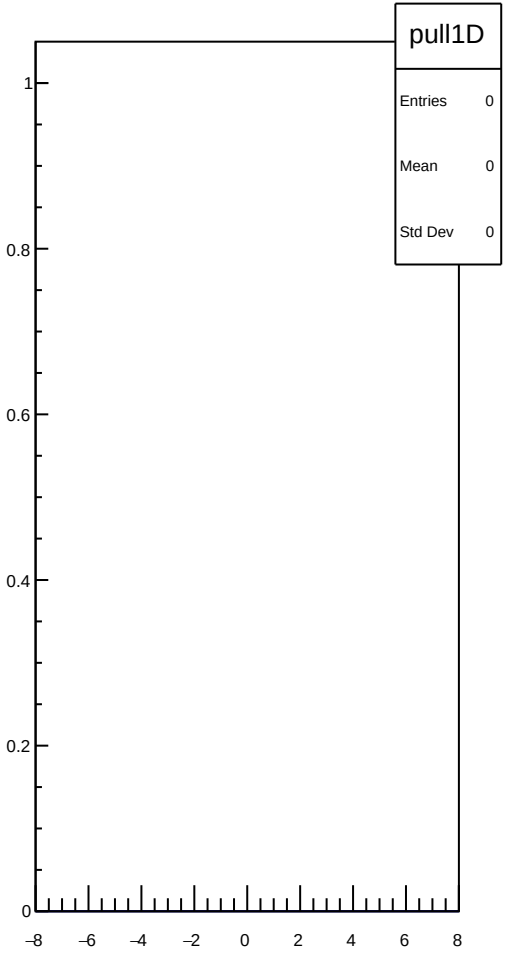
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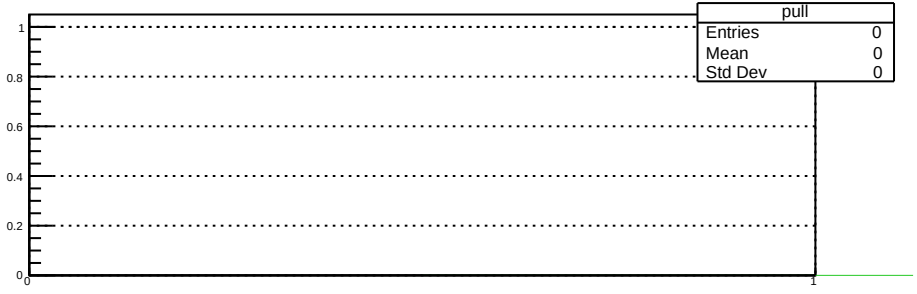
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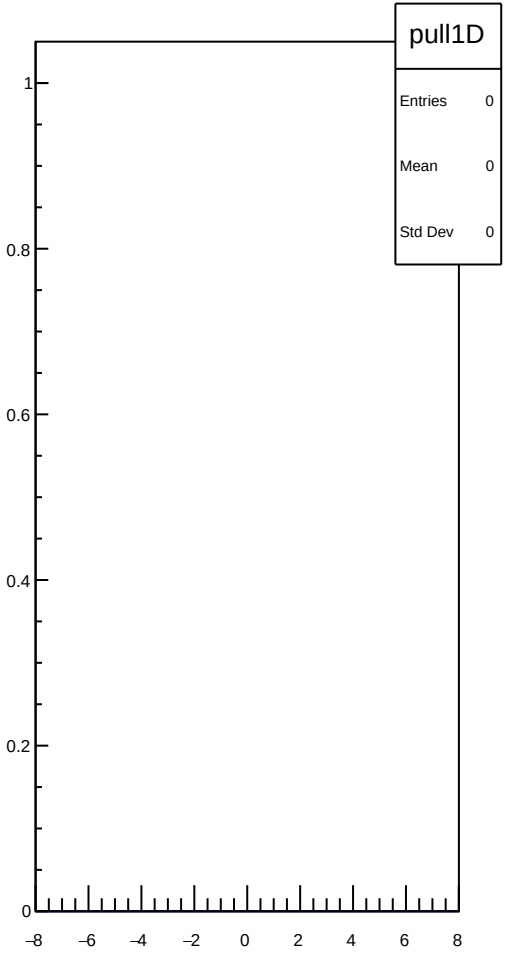
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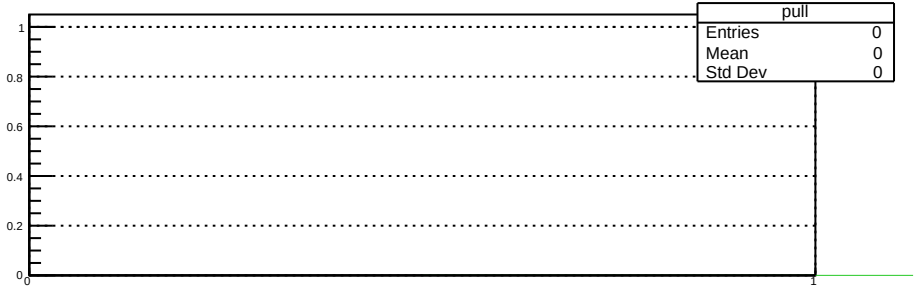
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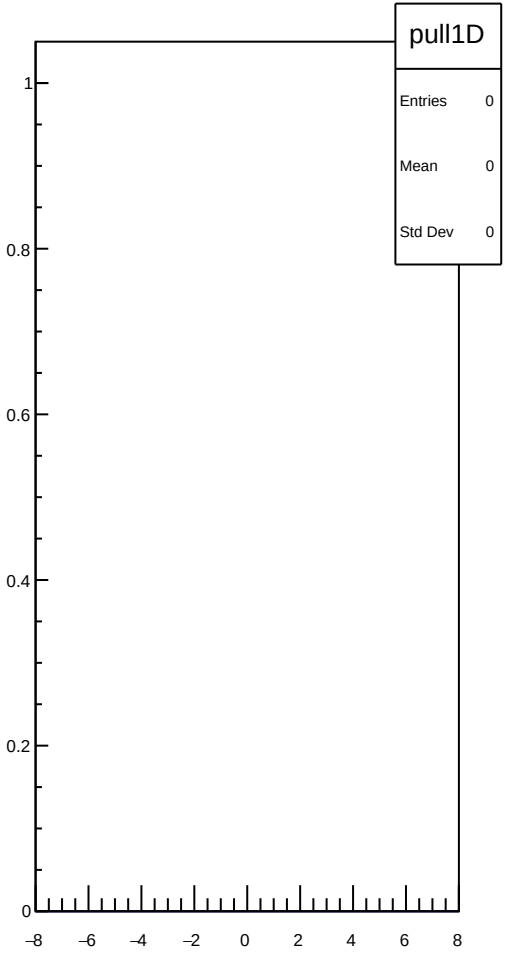
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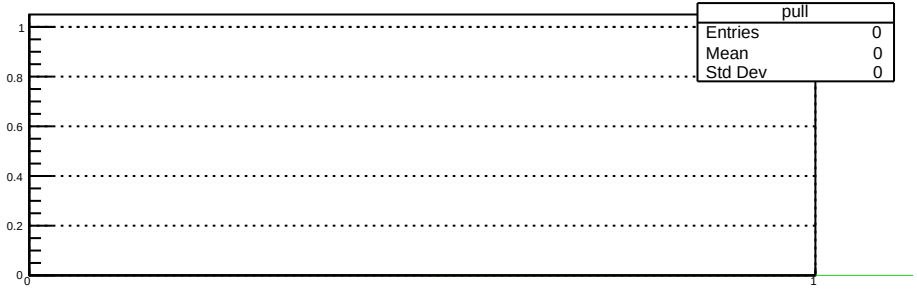
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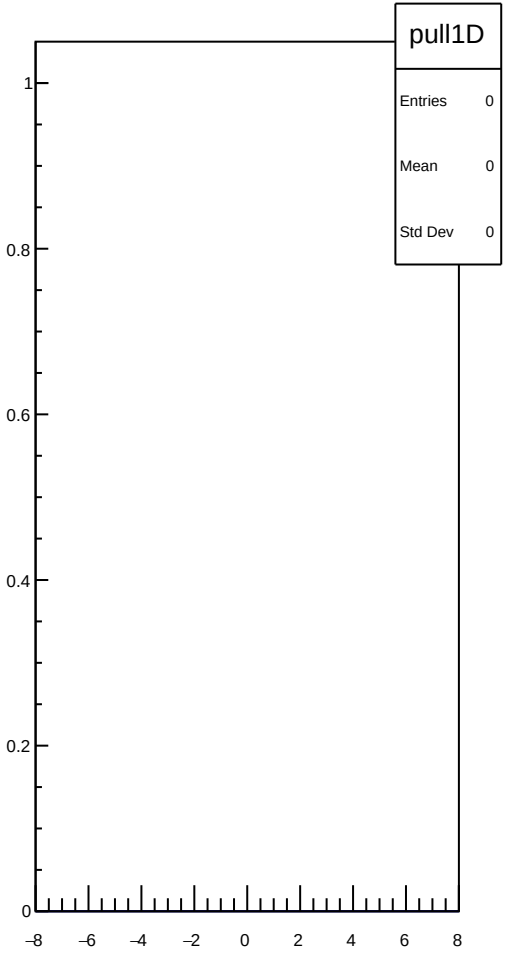
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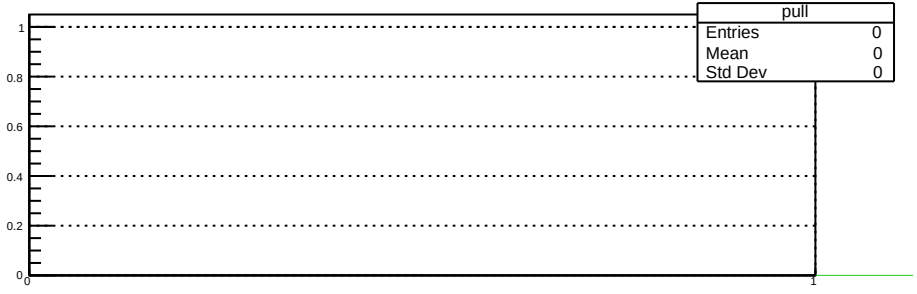
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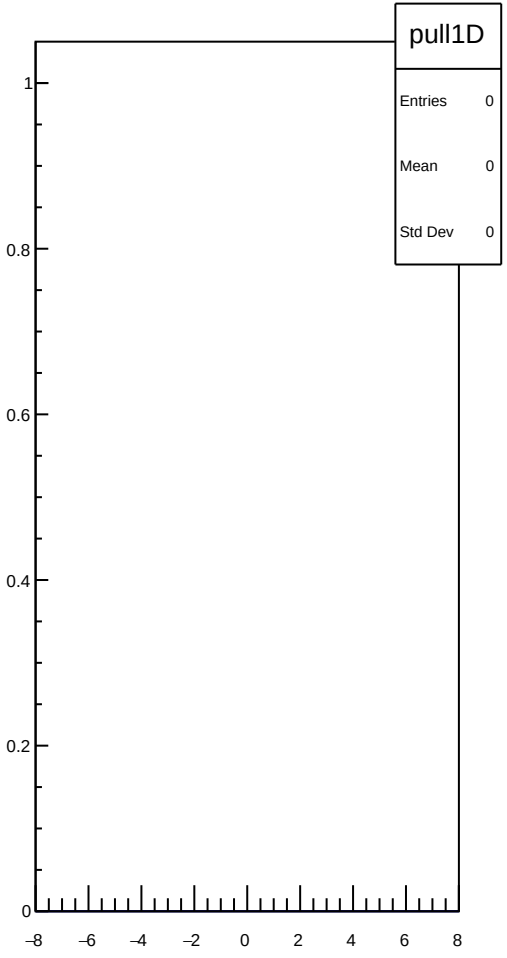
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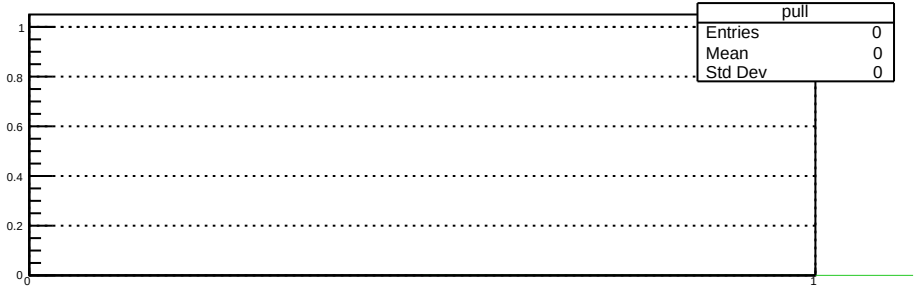
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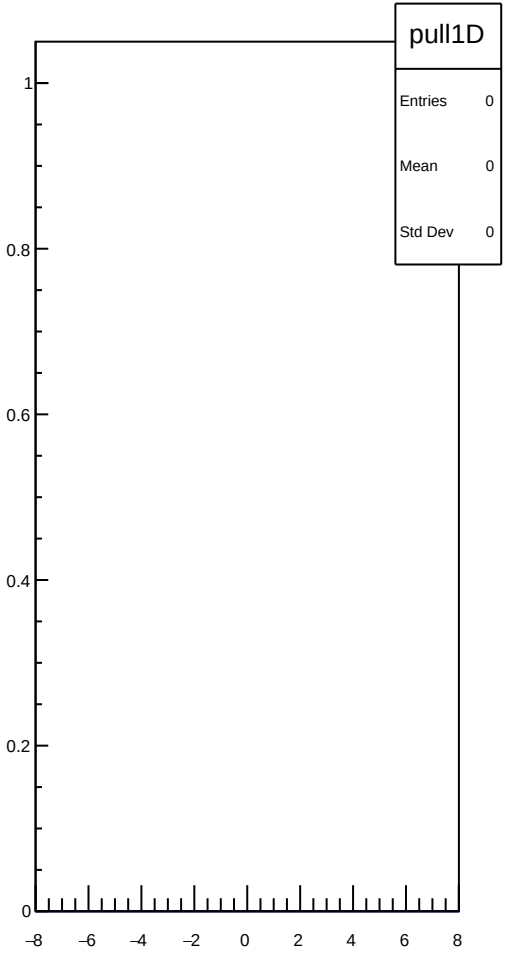
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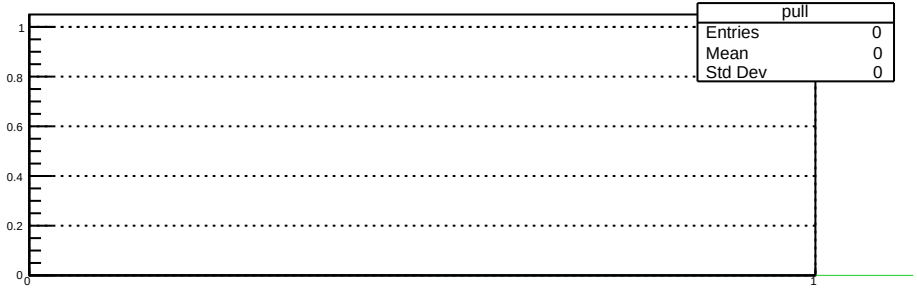
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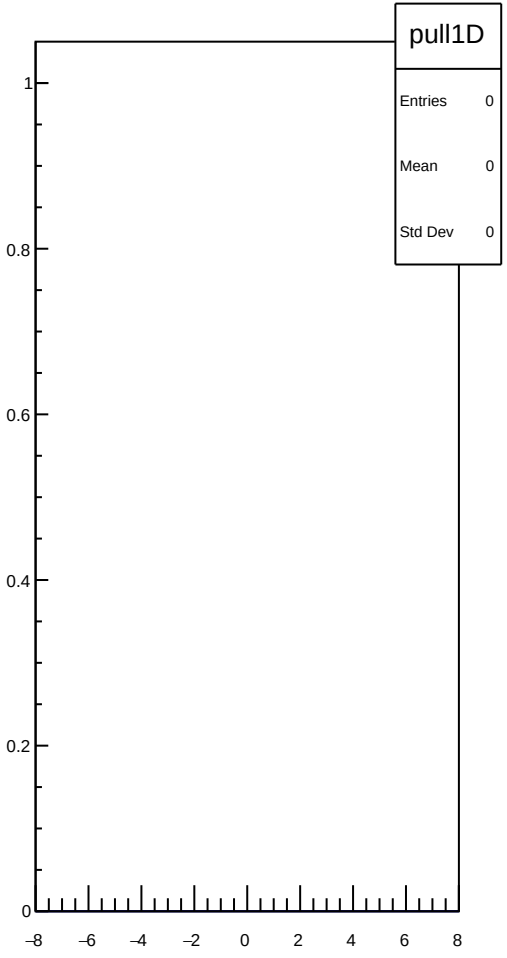
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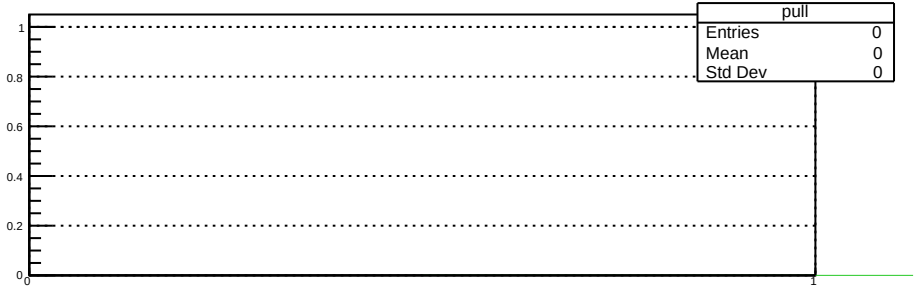
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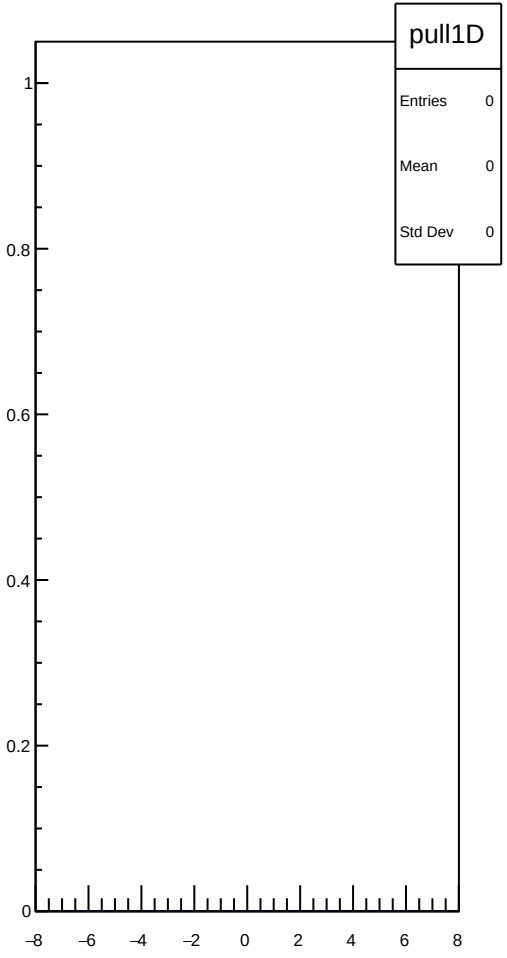
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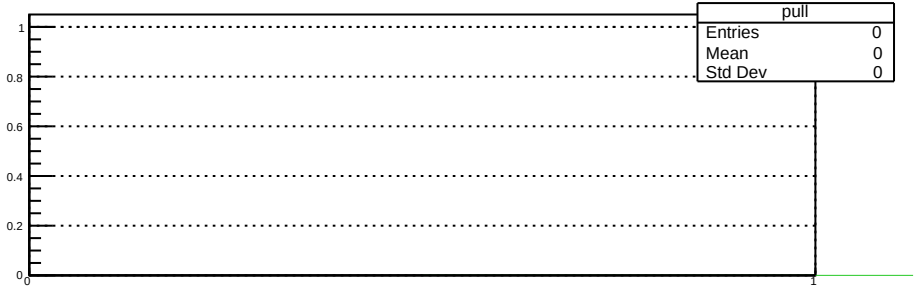
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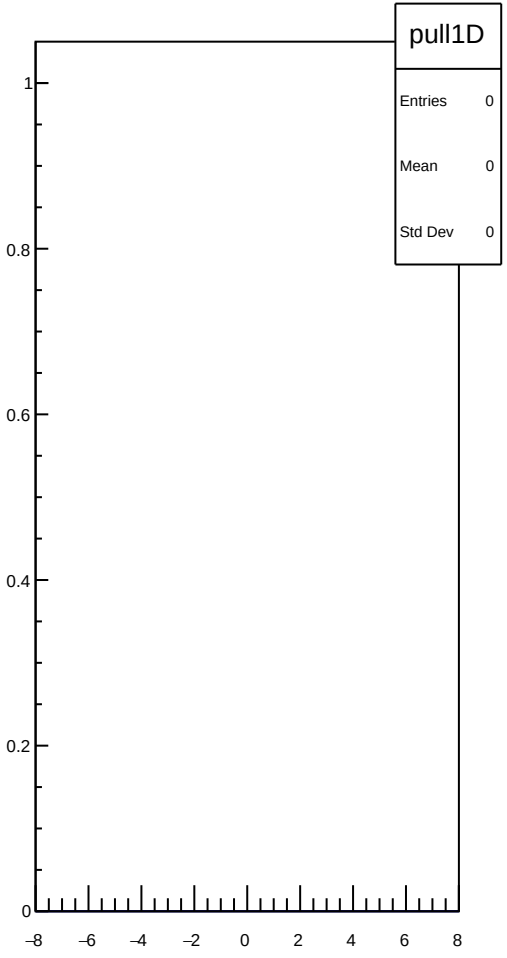
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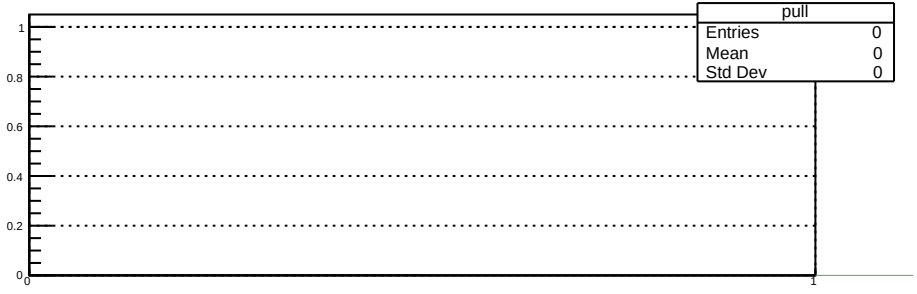
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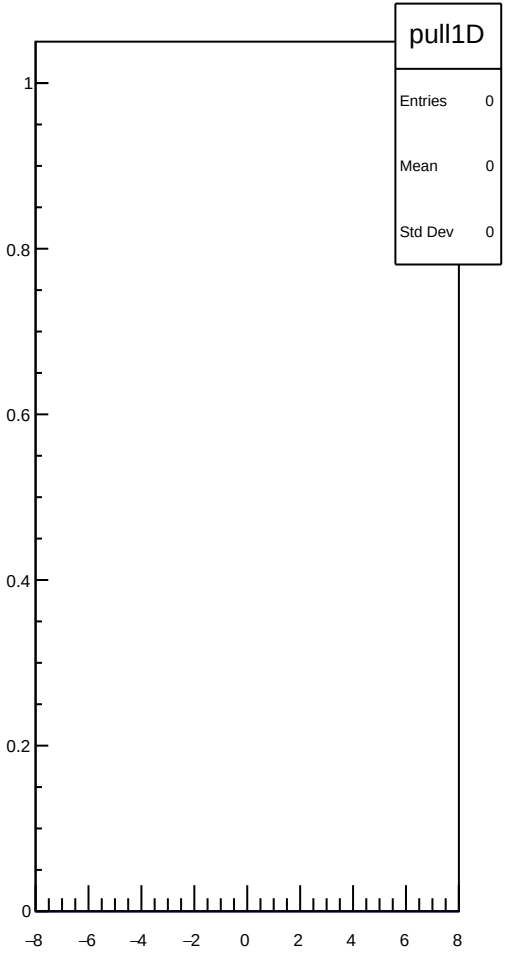
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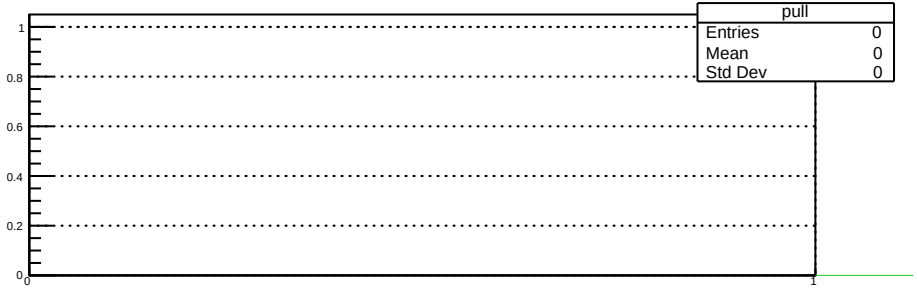
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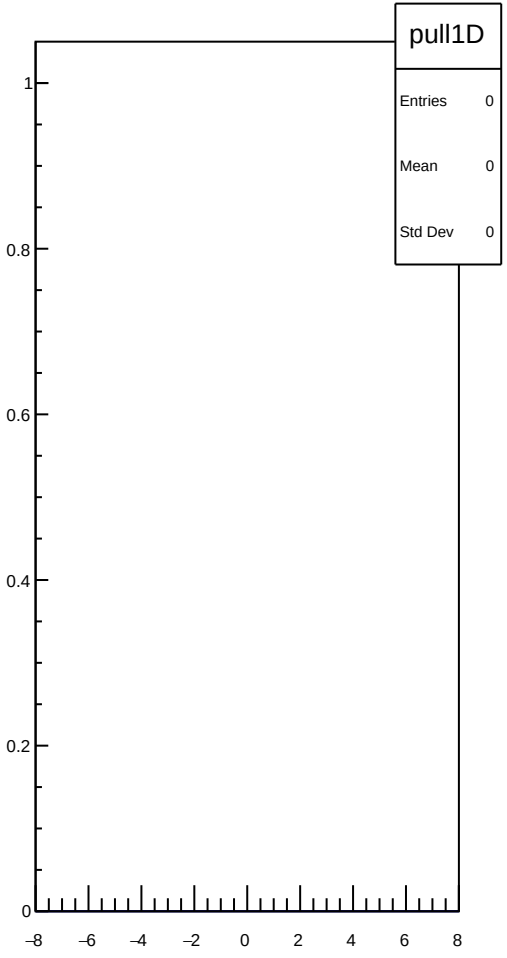
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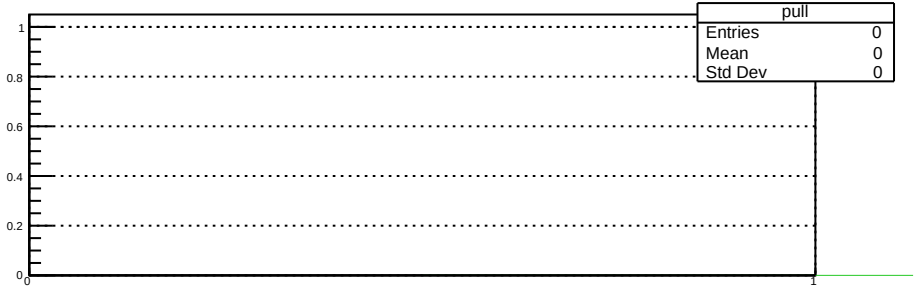
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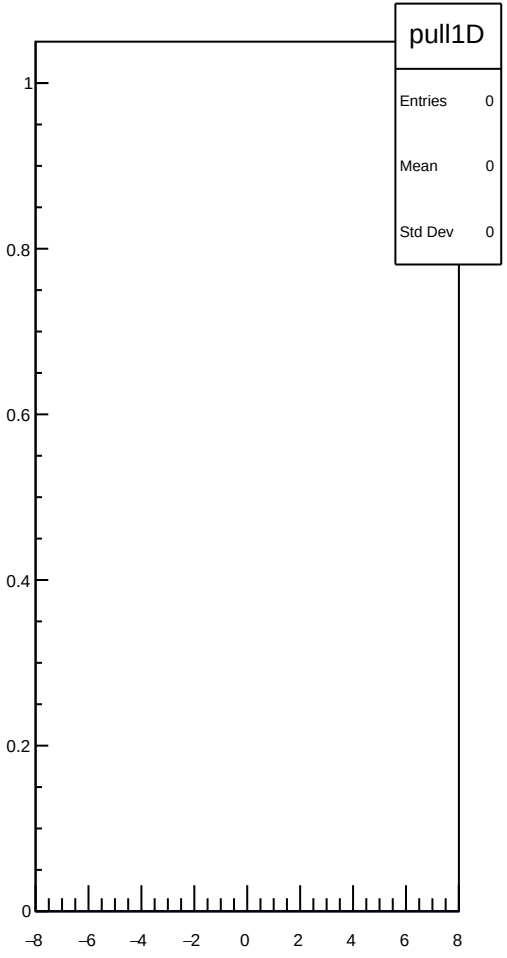
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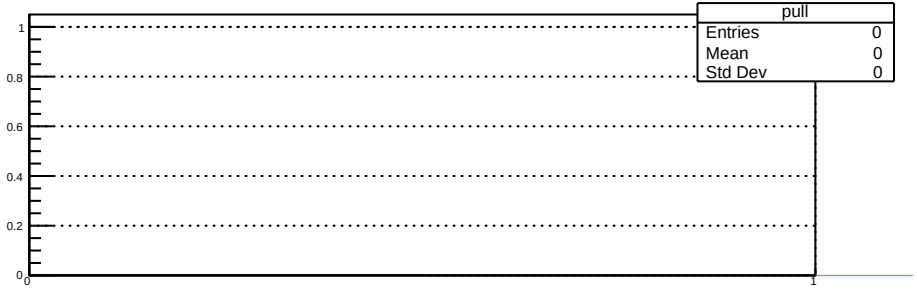
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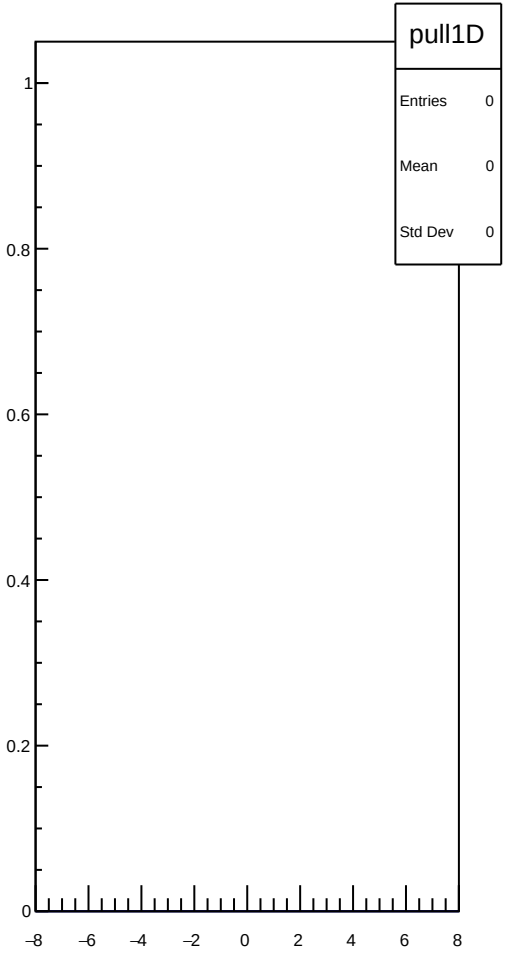
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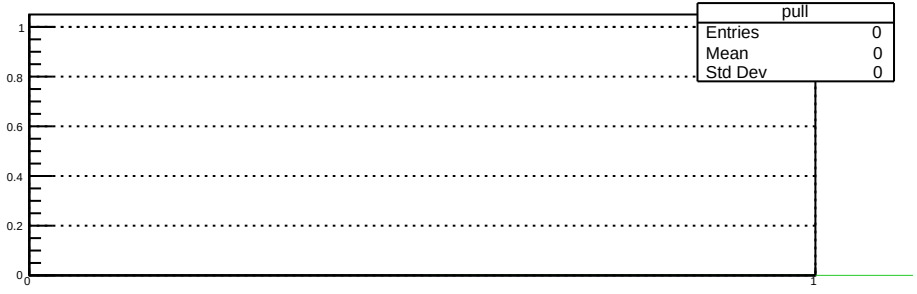
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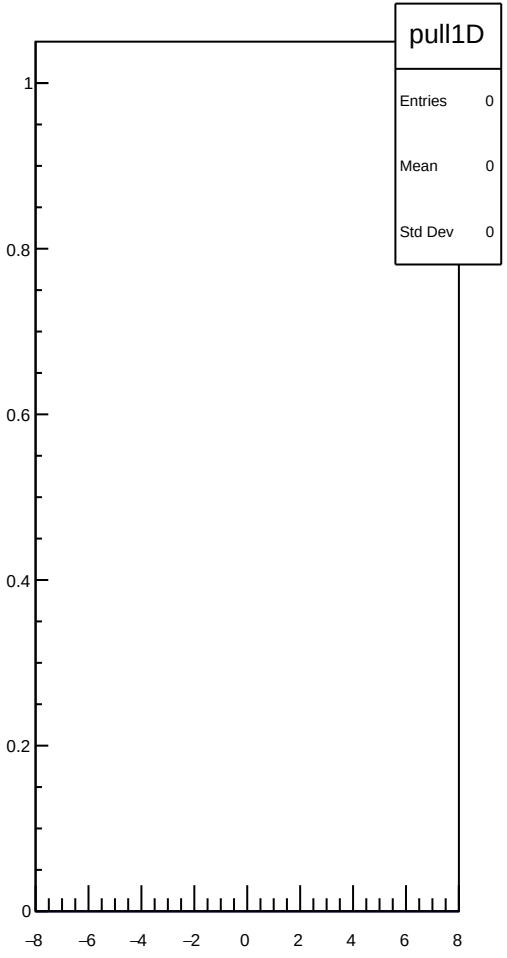
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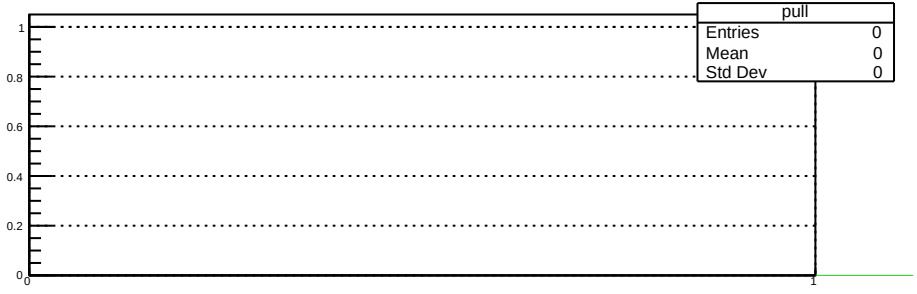
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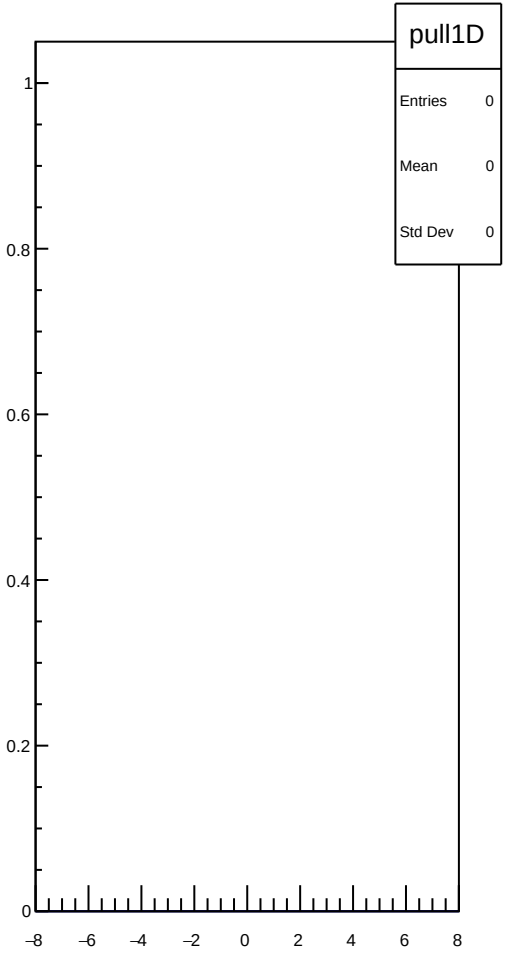
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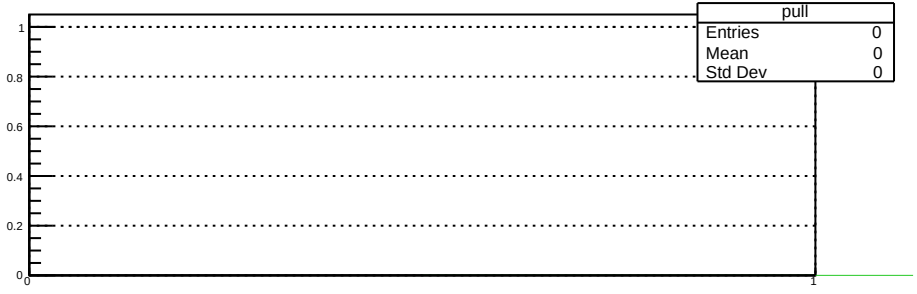
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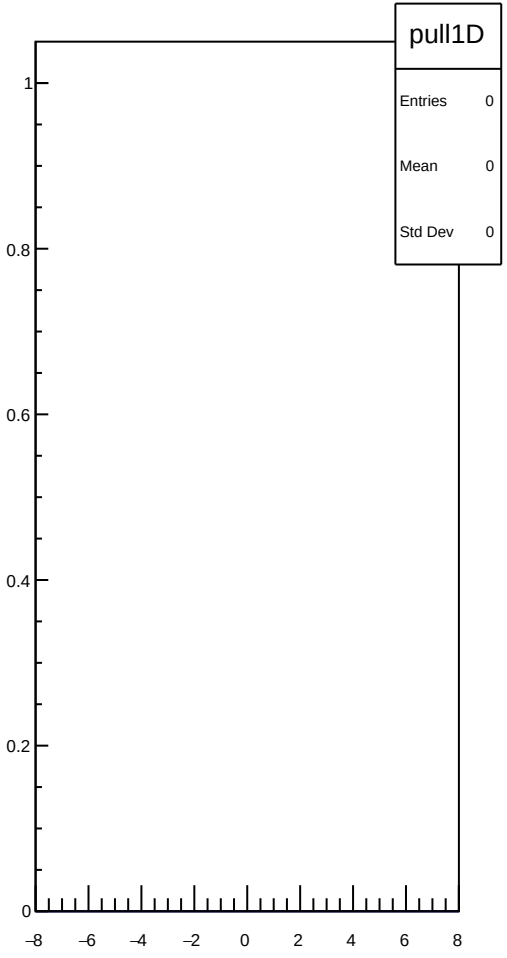
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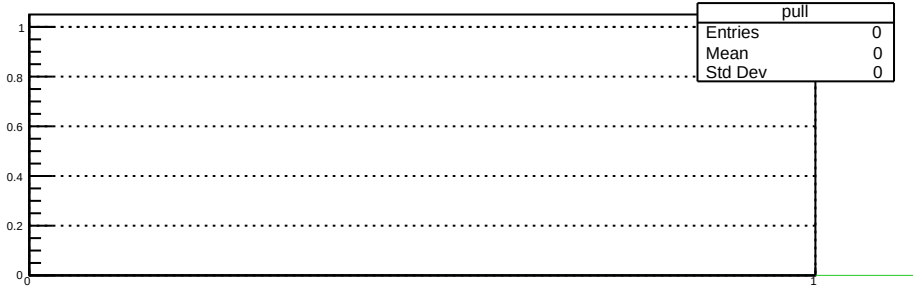
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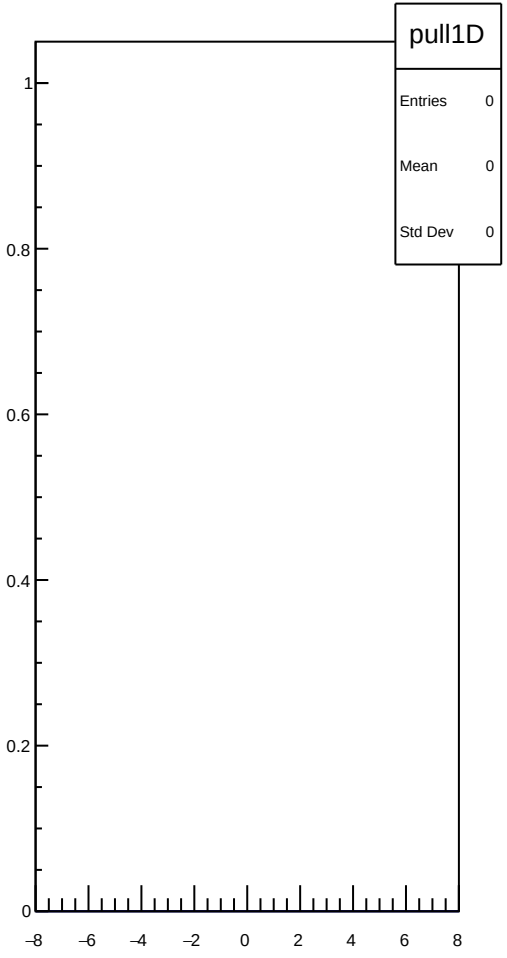
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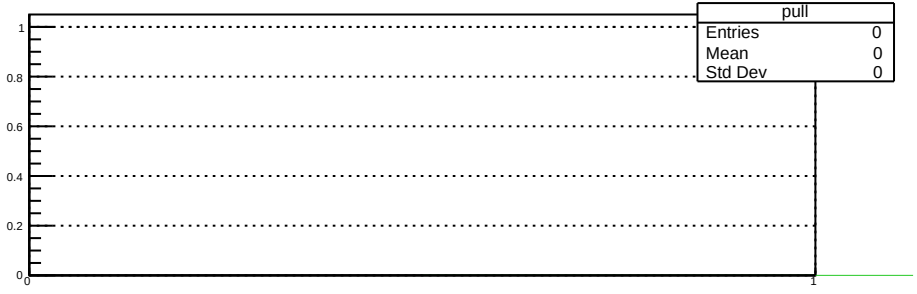
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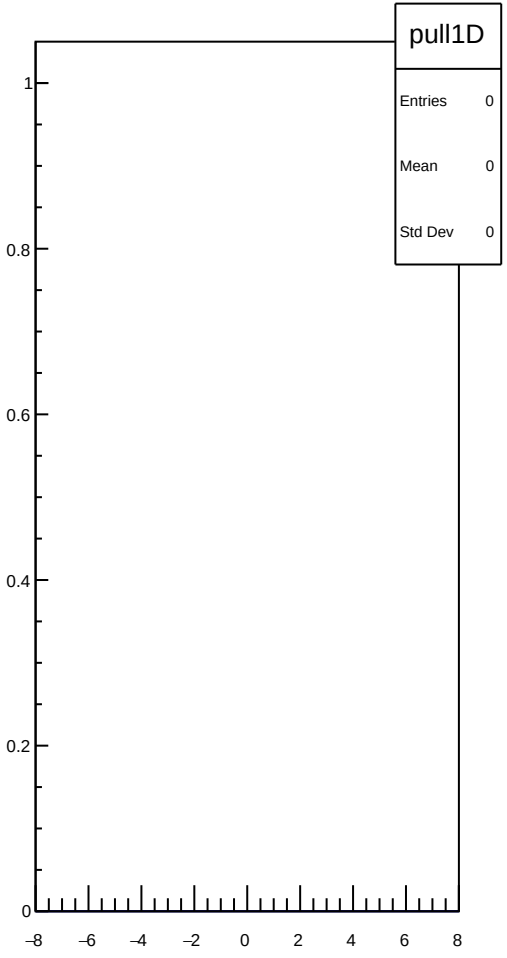
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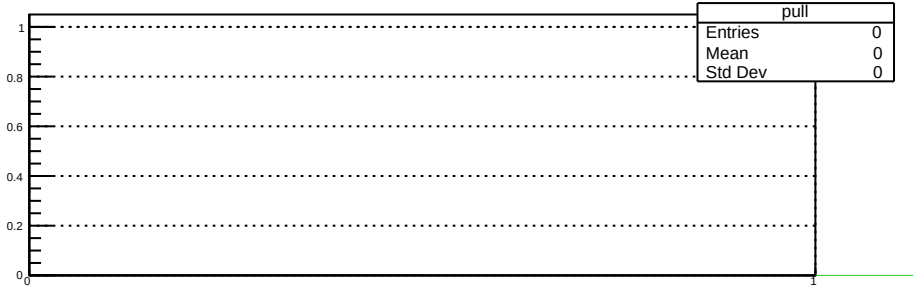
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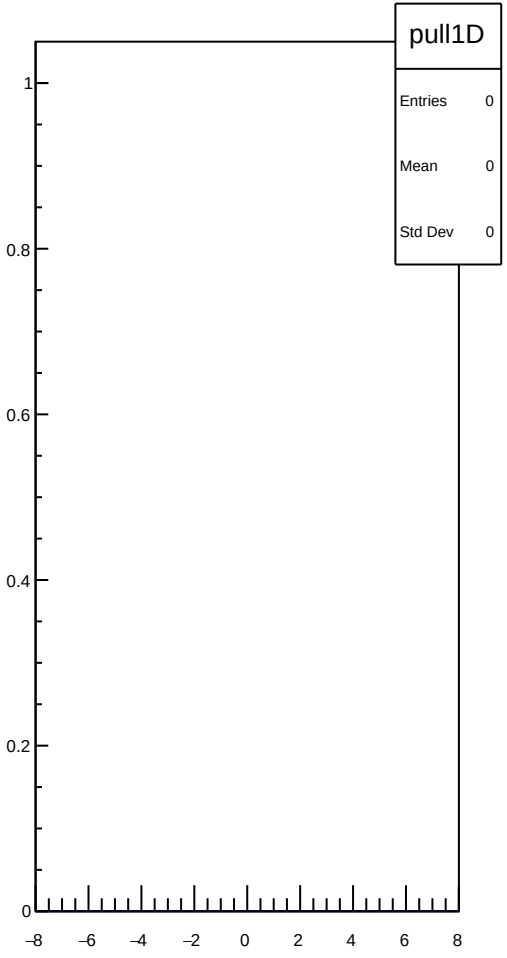
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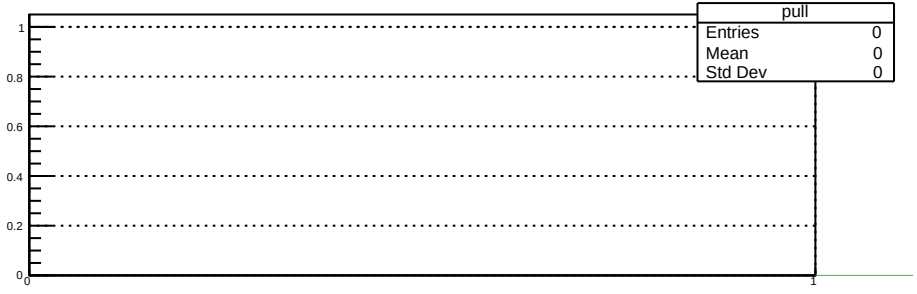
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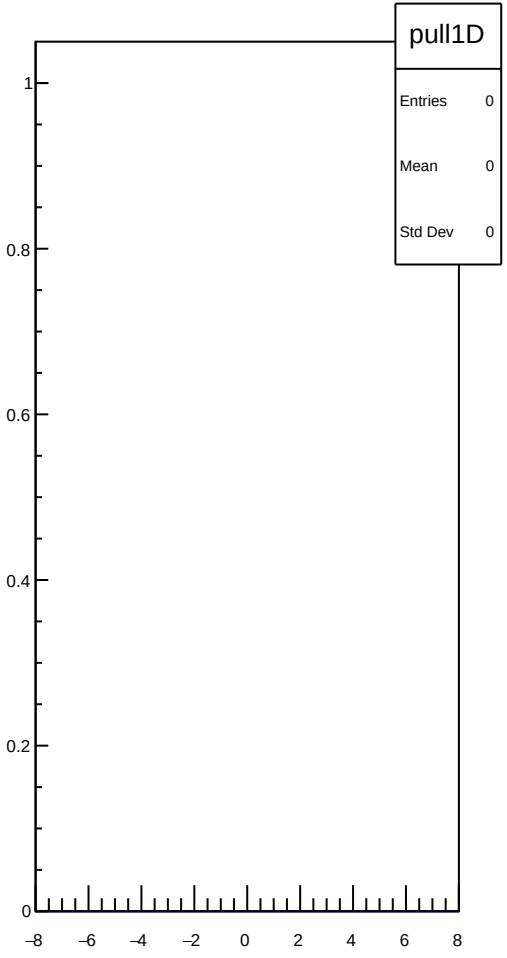
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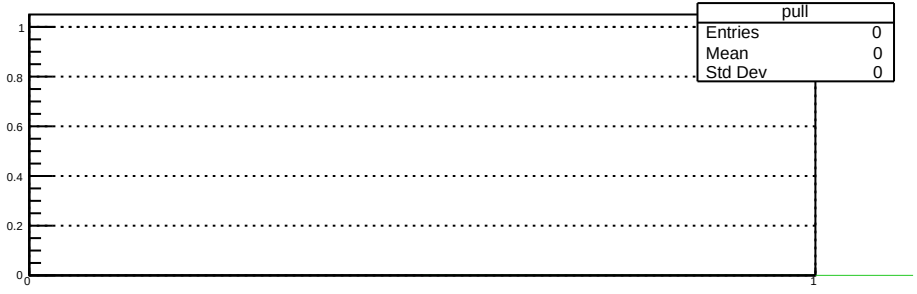
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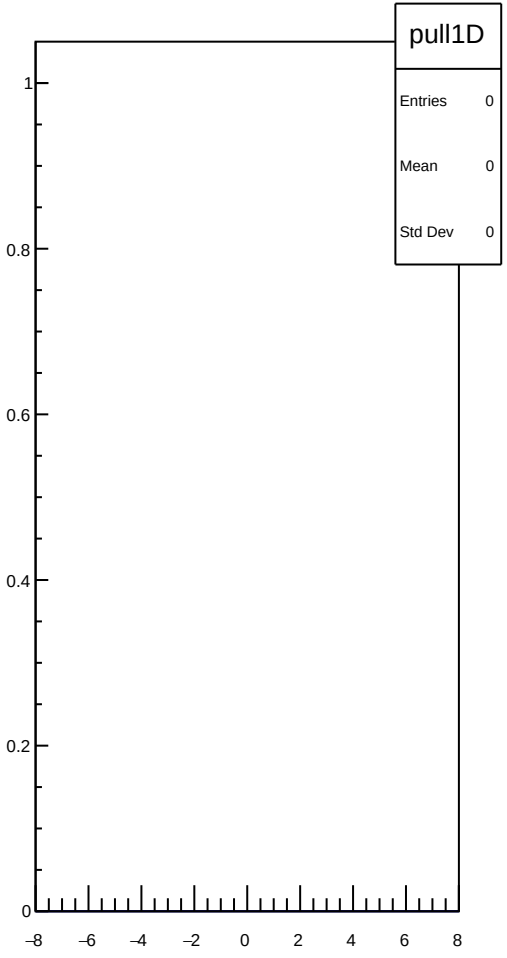
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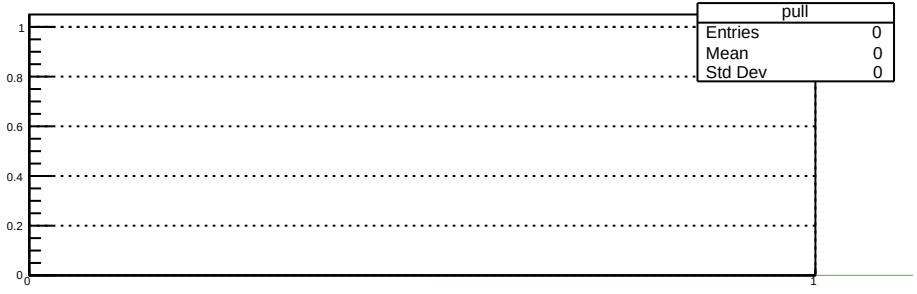
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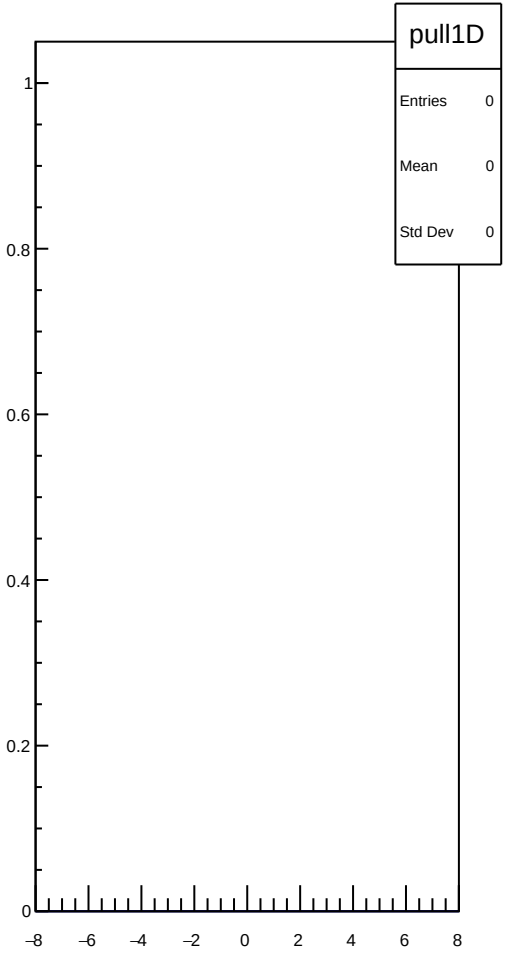
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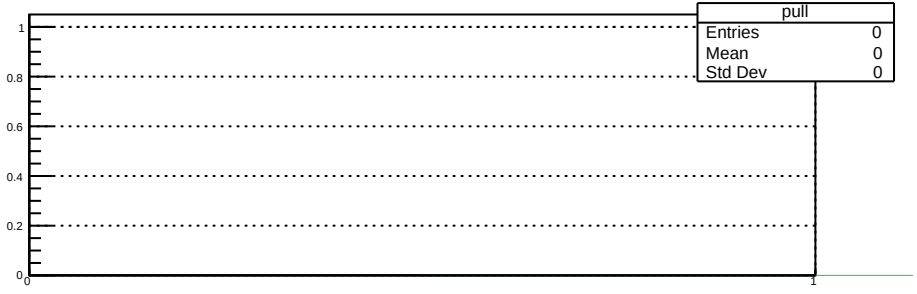
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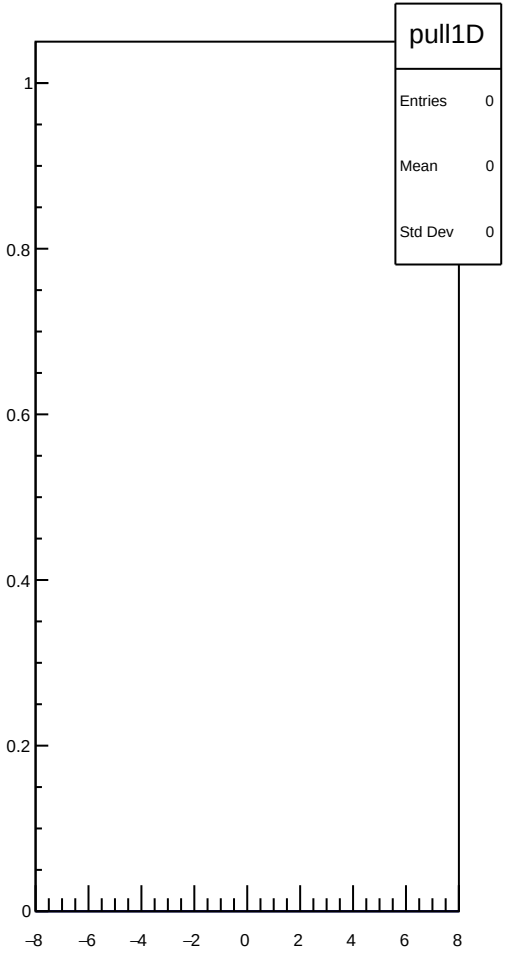
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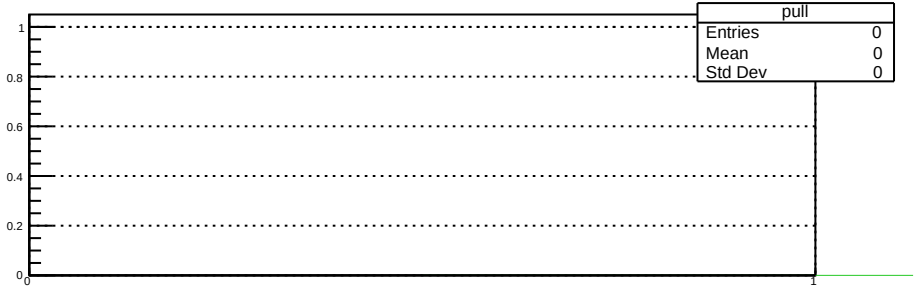
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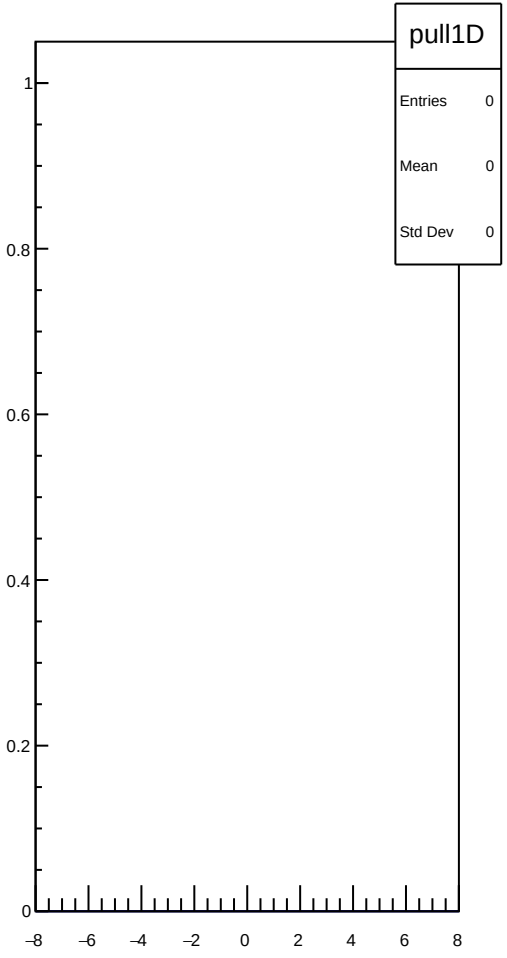
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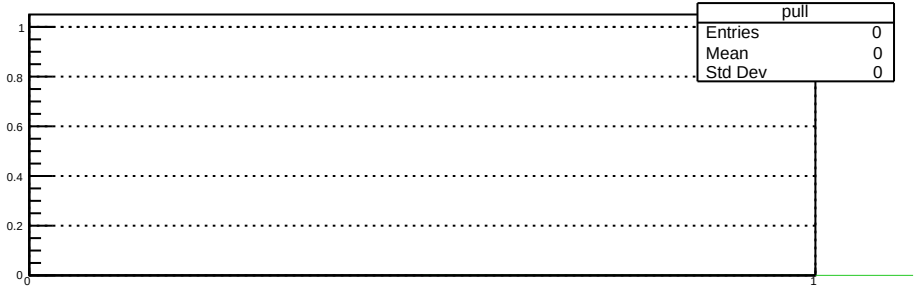
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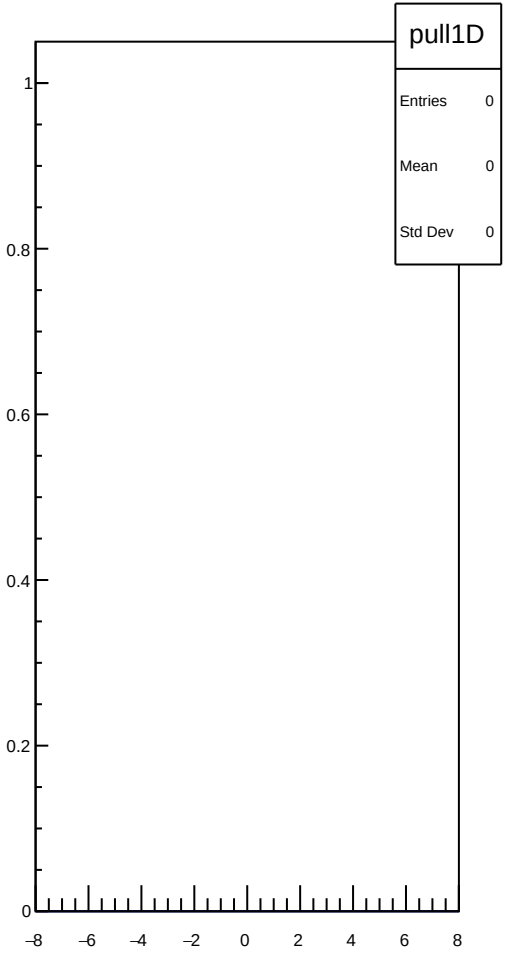
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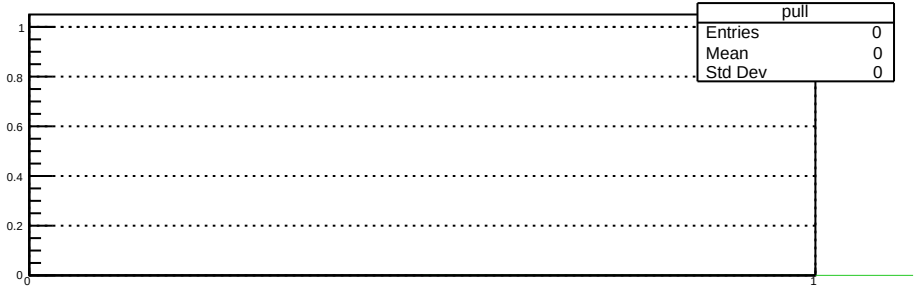
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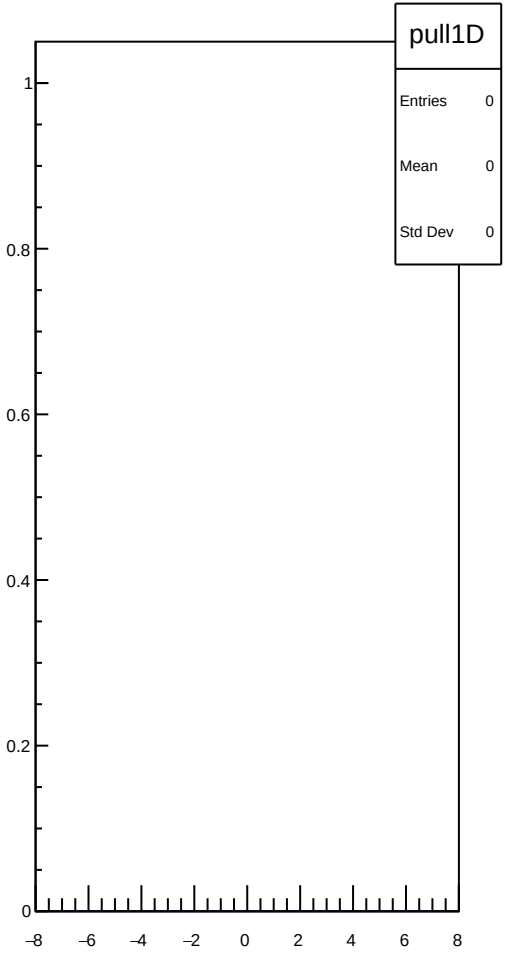
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
0.2
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–4
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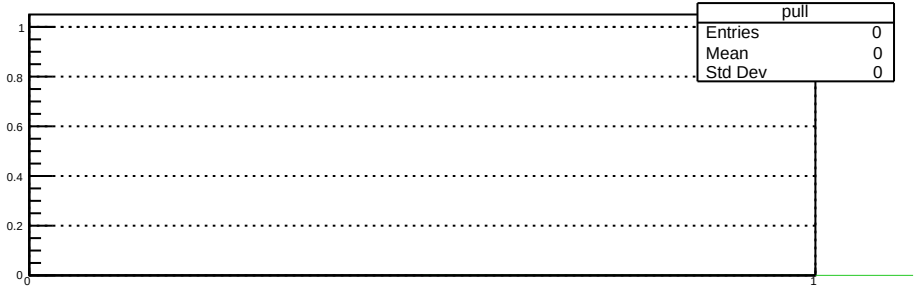
6
8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Mean 0
Std Dev 0
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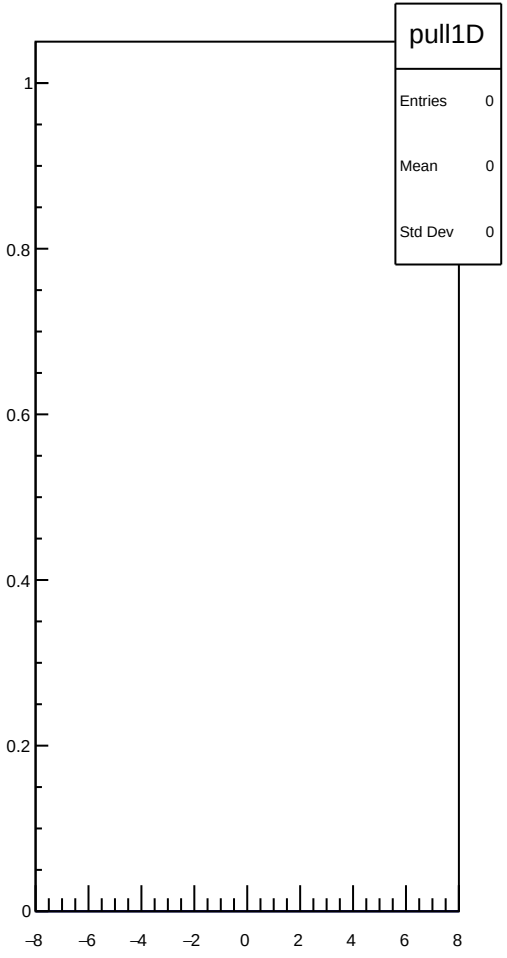
pull1D
Entries 0
Mean 0
Std Dev 0
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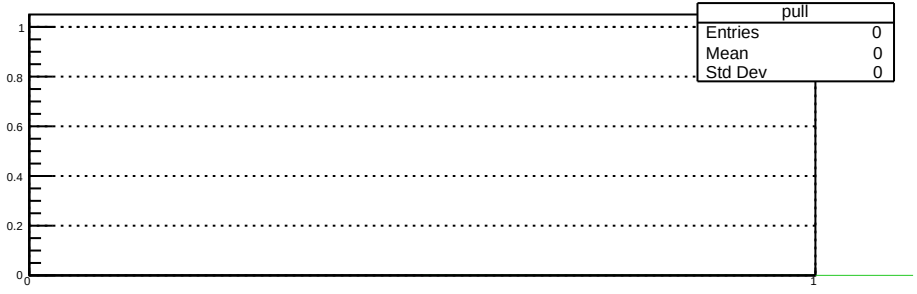
pull
Entries 0
Mean 0
Std Dev 0
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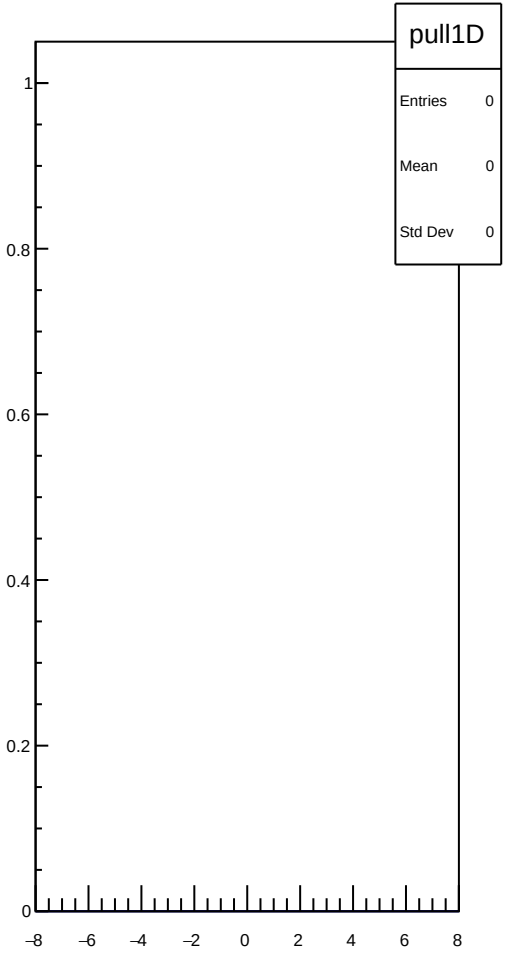
pull1D
Entries 0
Mean 0
Std Dev 0
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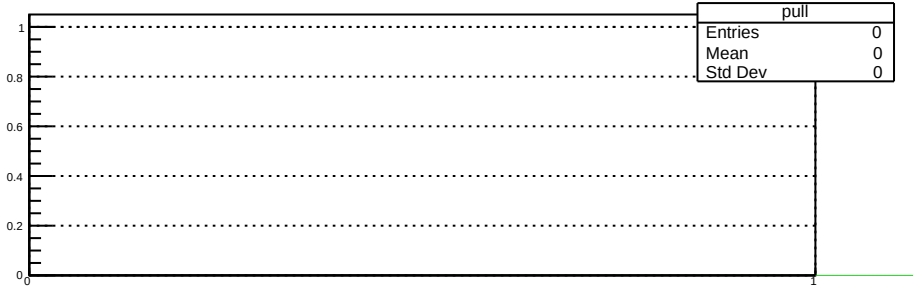
pull
Entries 0
Mean 0
Std Dev 0
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0.8
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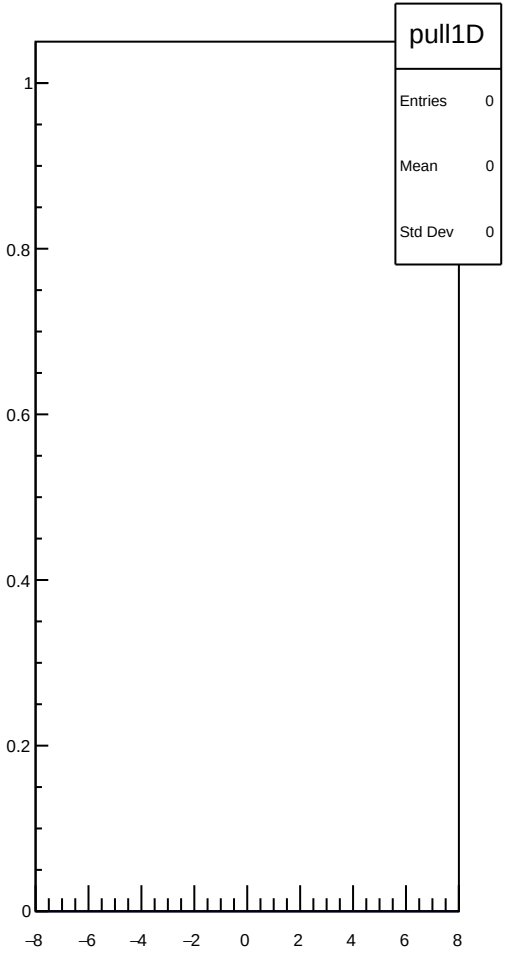
pull1D
Entries 0
Mean 0
Std Dev 0
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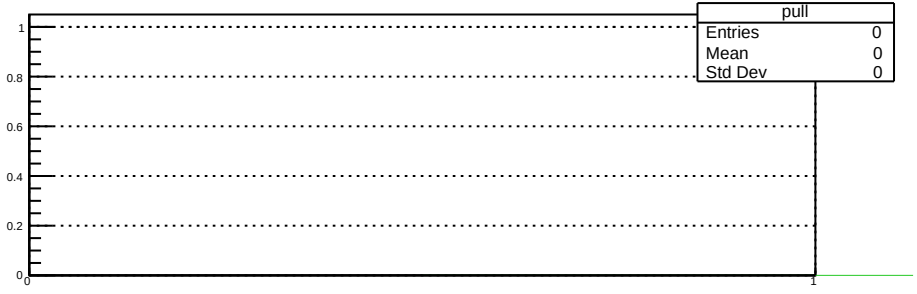
pull
Entries 0
Mean 0
Std Dev 0
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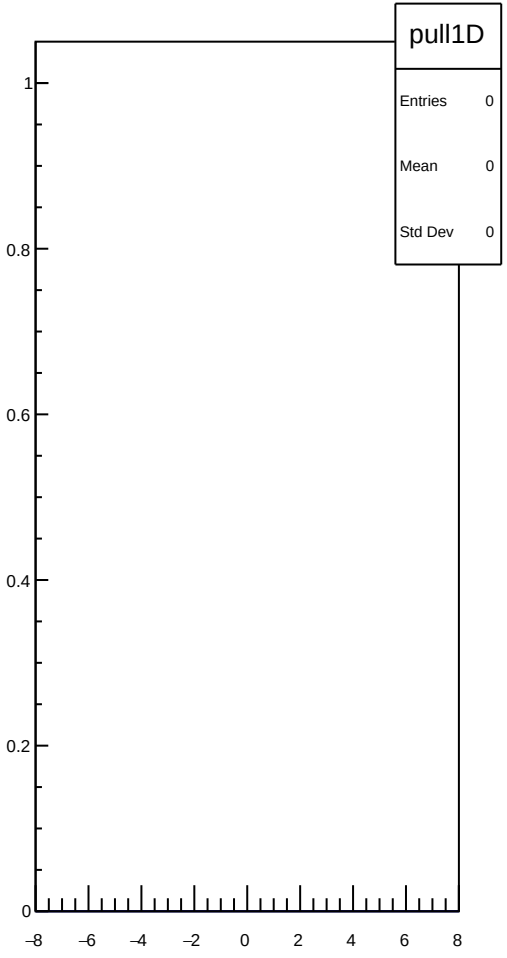
pull1D
Entries 0
Mean 0
Std Dev 0
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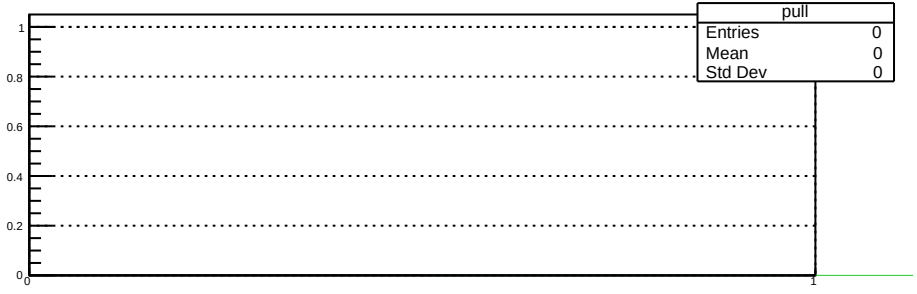
pull
Entries 0
Mean 0
Std Dev 0
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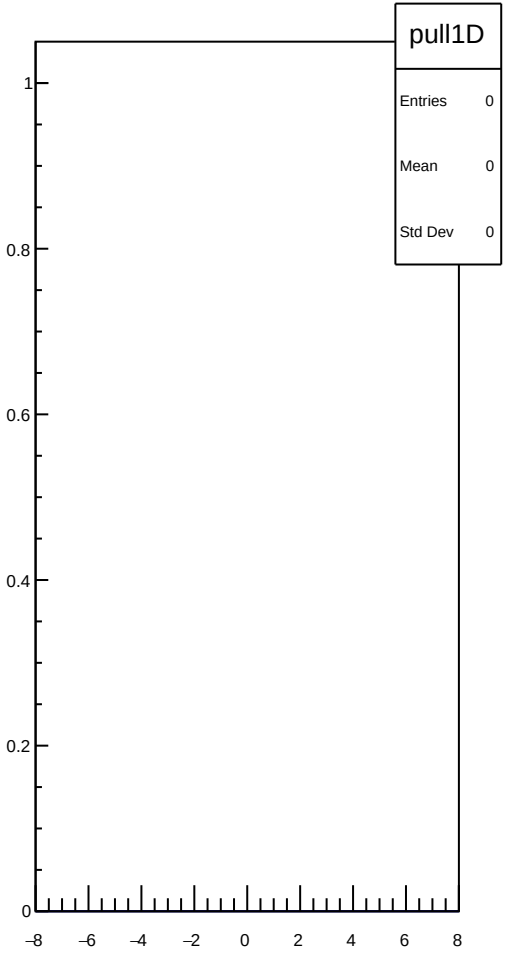
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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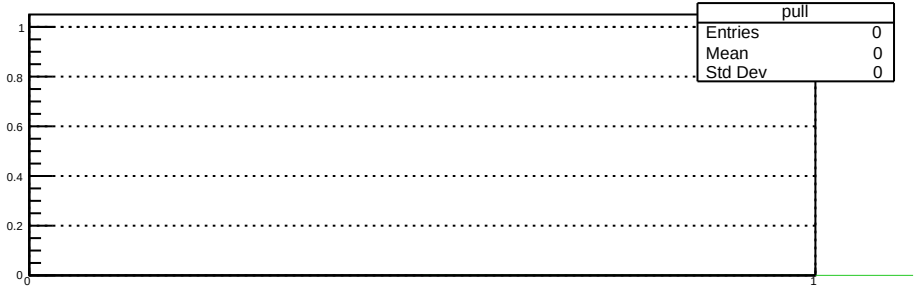
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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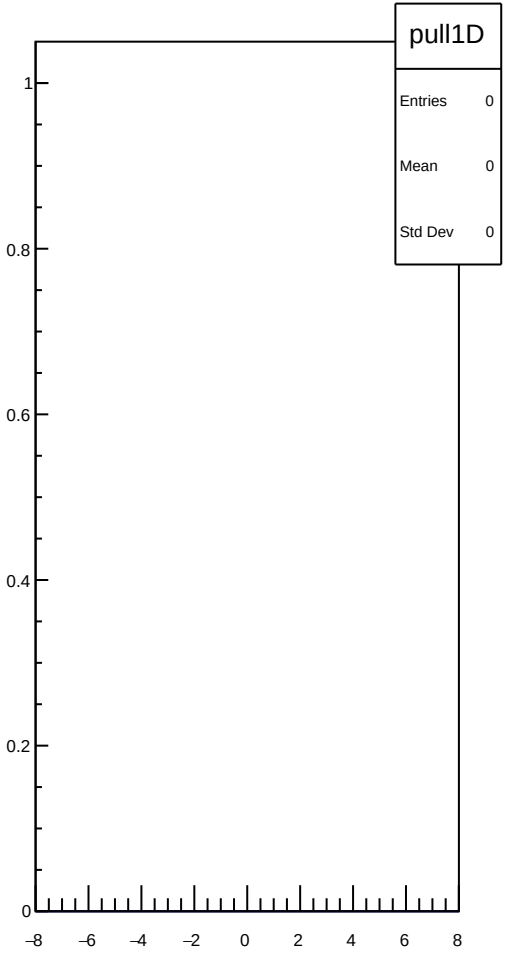
1


pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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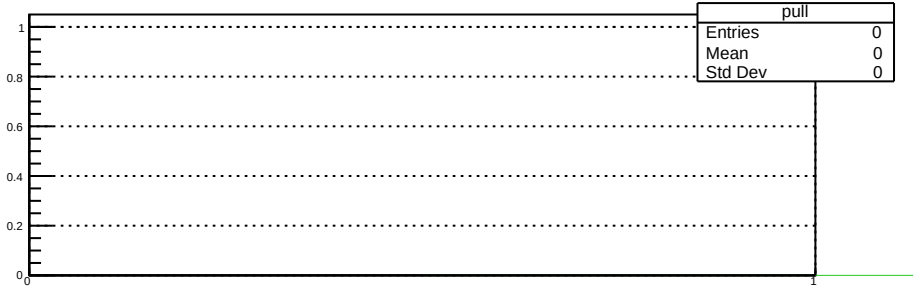
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
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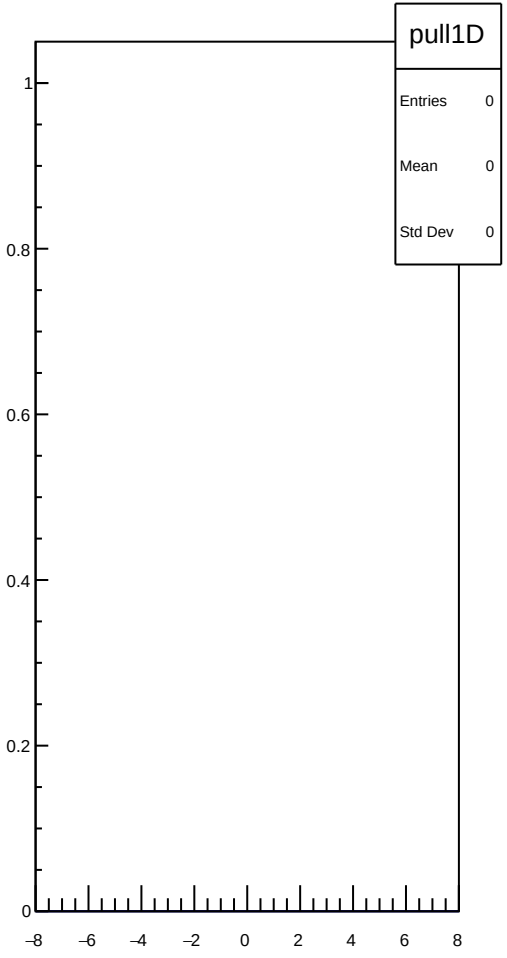
pull1D
Entries 0
Mean 0
Std Dev 0
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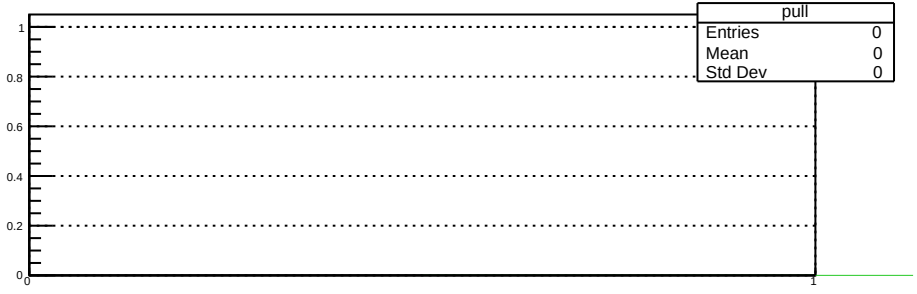
pull
Entries 0
Mean 0
Std Dev 0
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0.8
0.6
0.4
0.2
0
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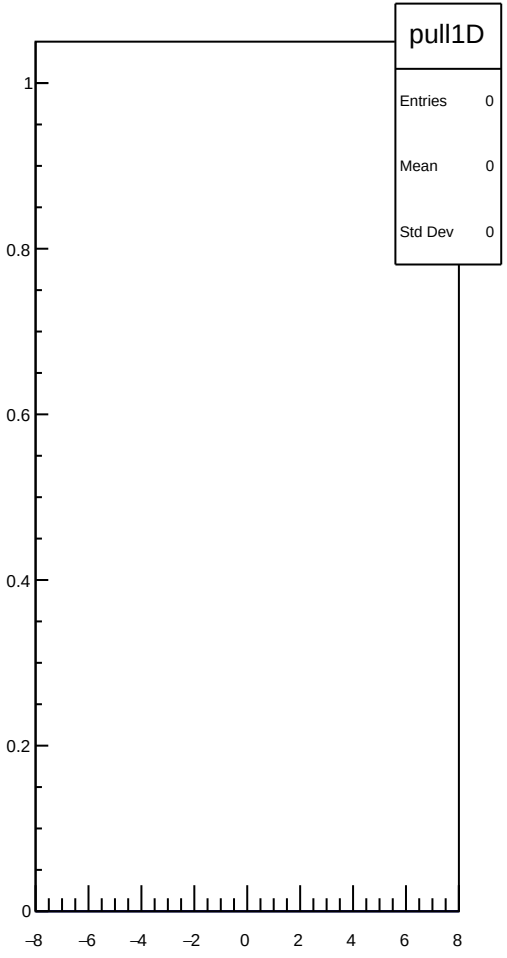
1


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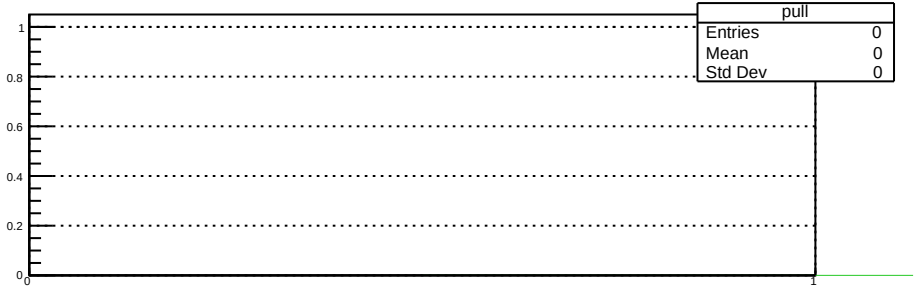
pull
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
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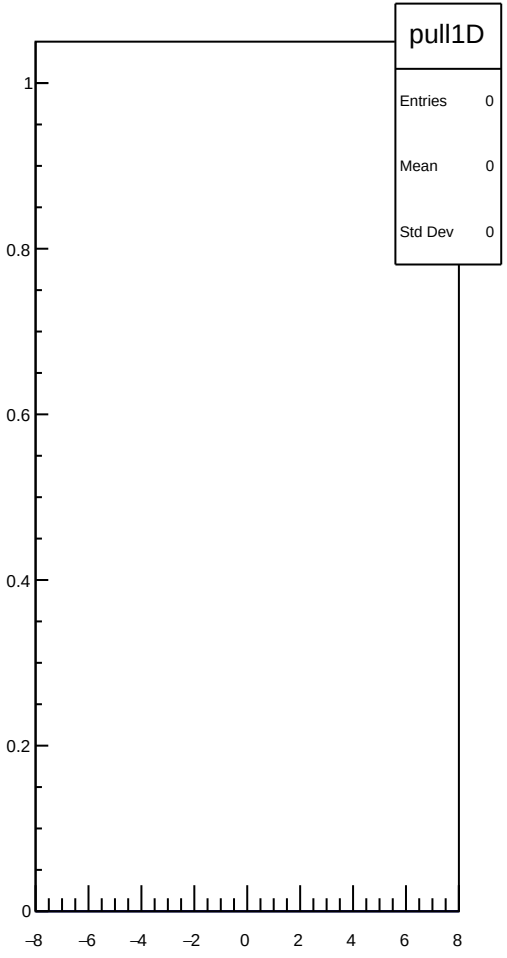
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
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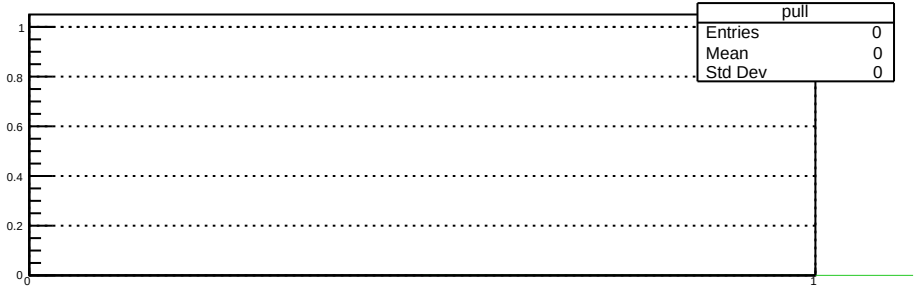
–4
–2
0
2
4
6
8


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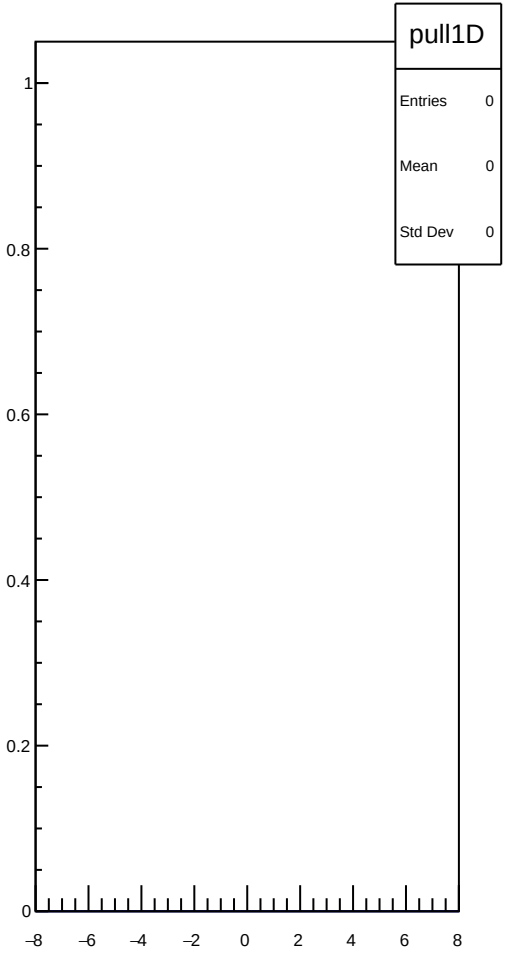
0
1


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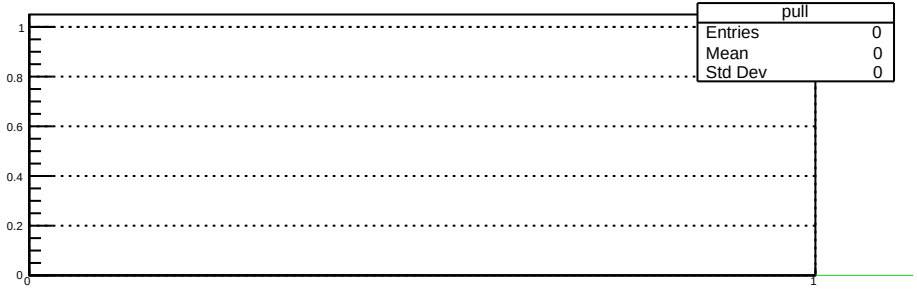
pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
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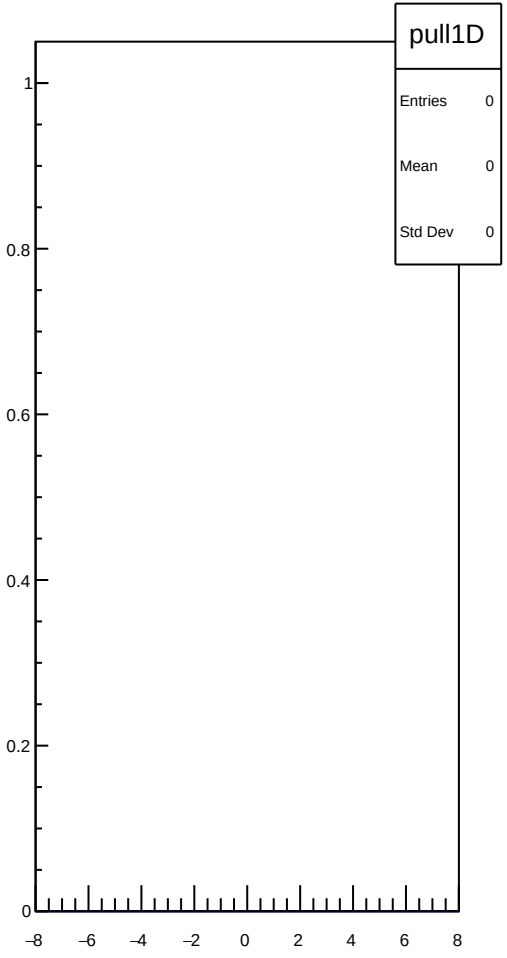
0
1


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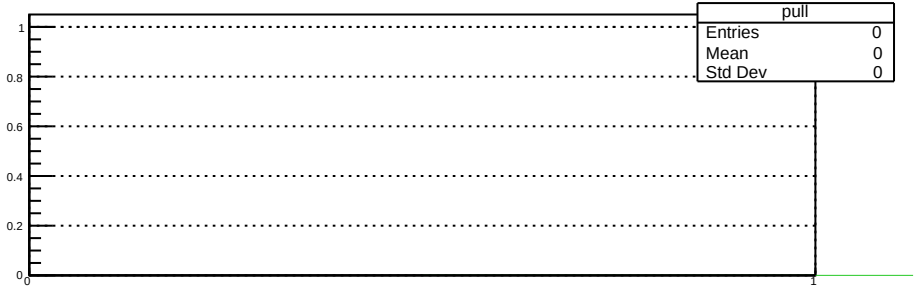
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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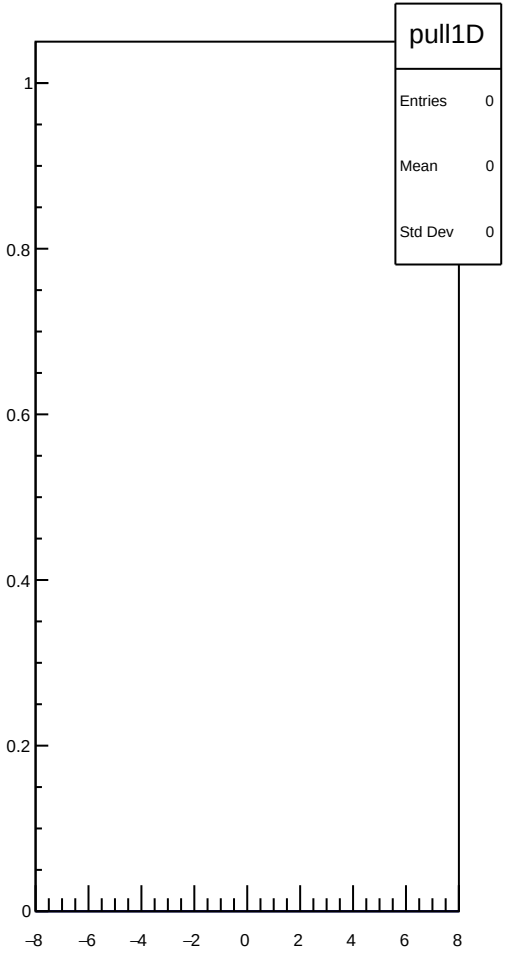
0.6
0.4
0.2
0
0
1


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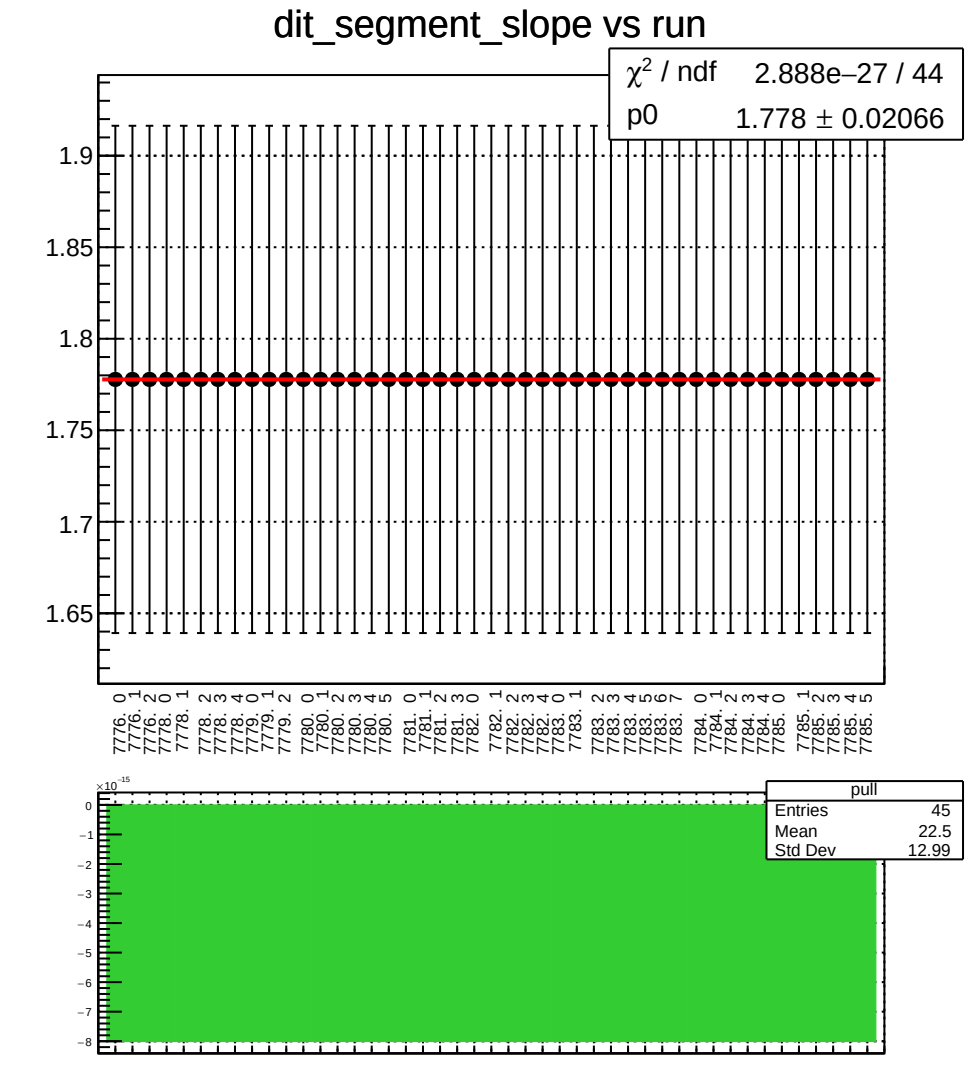
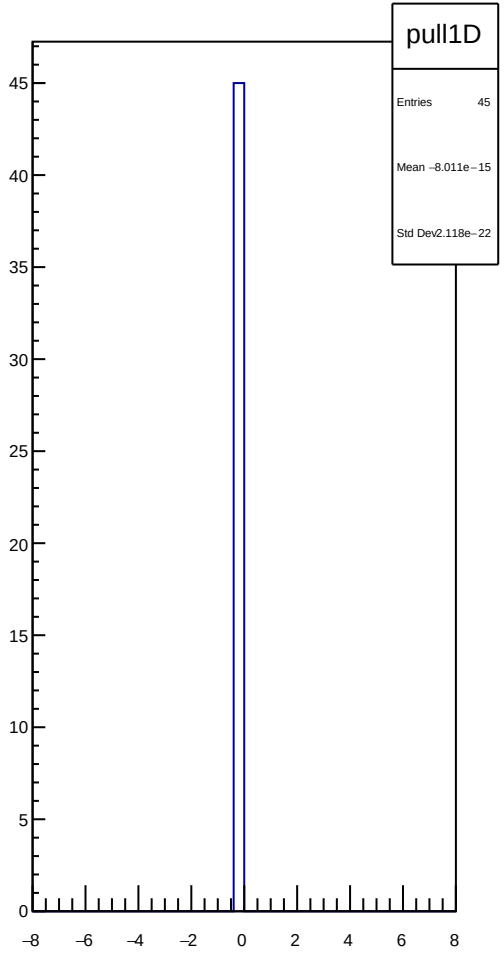
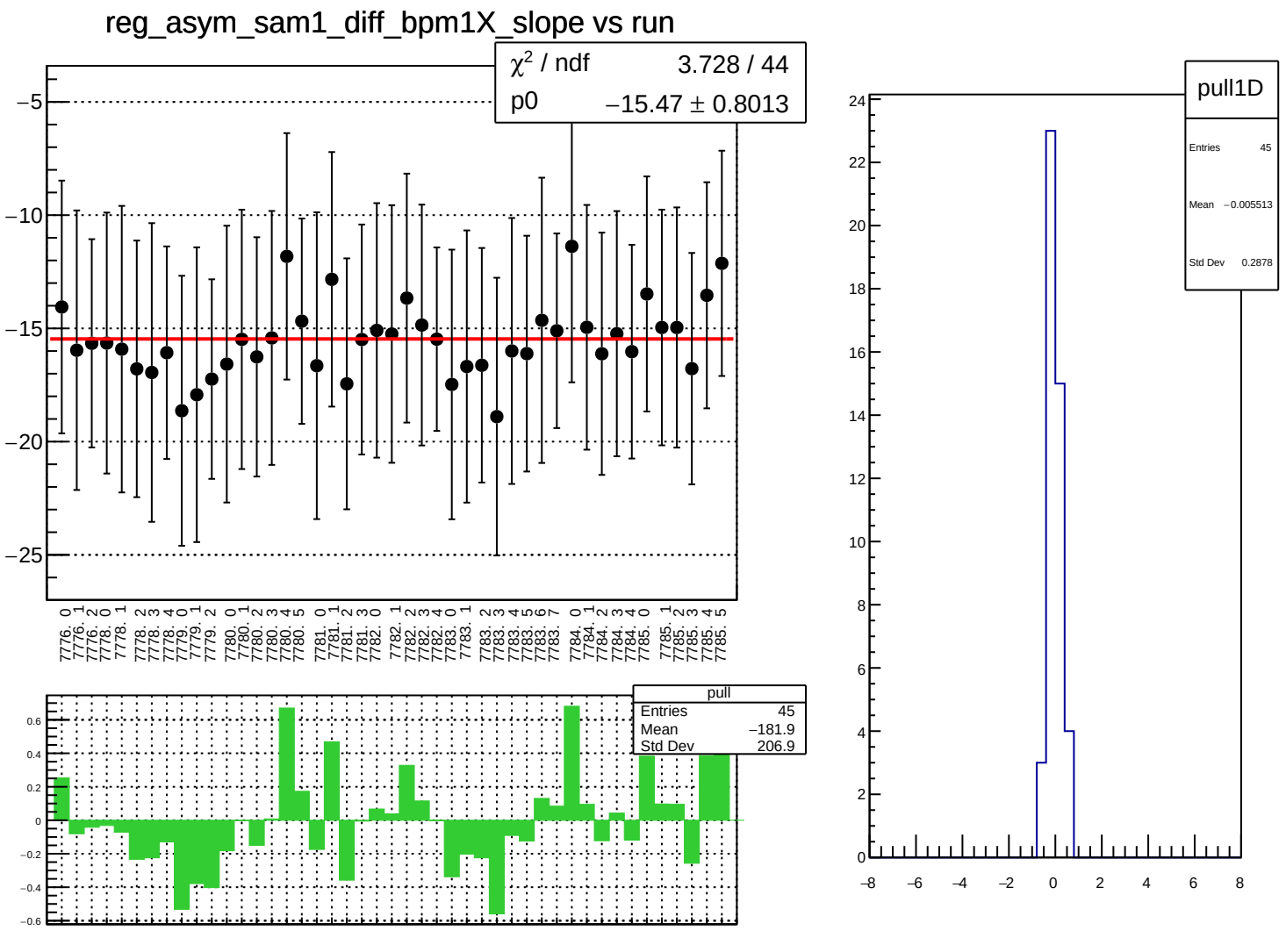
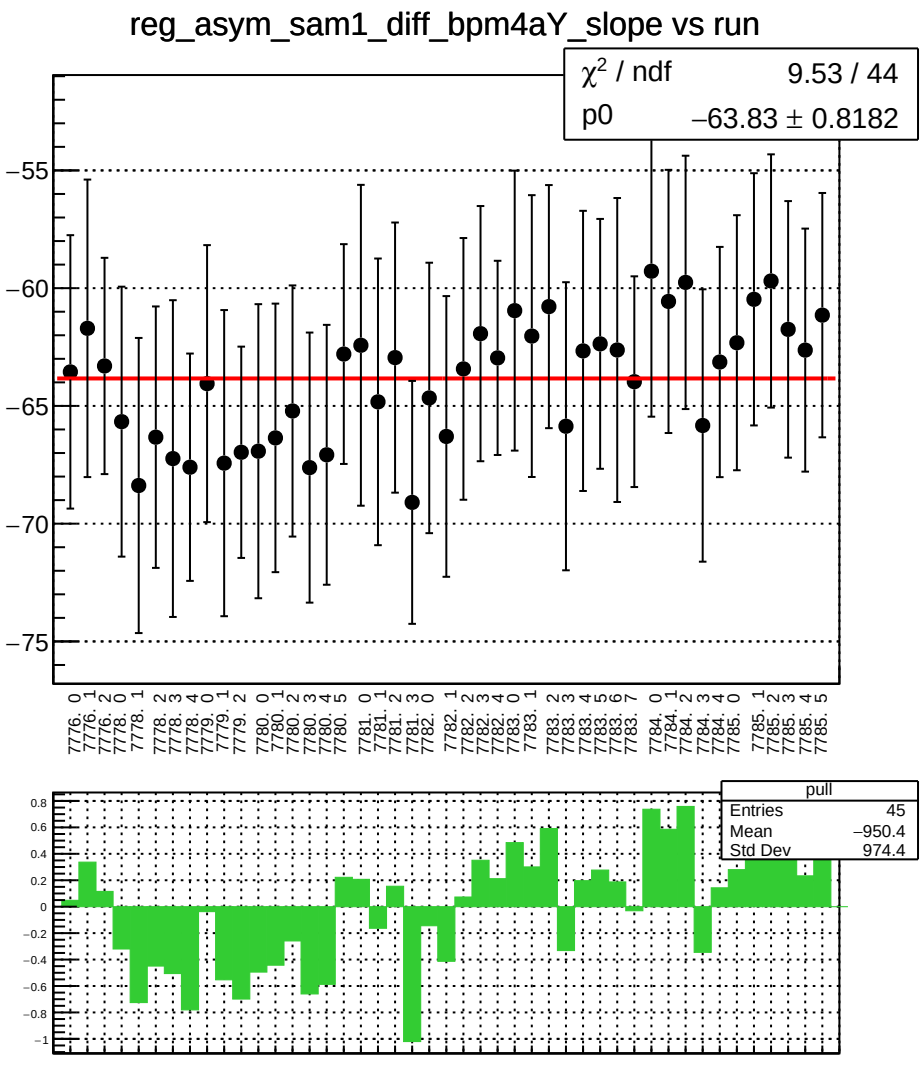
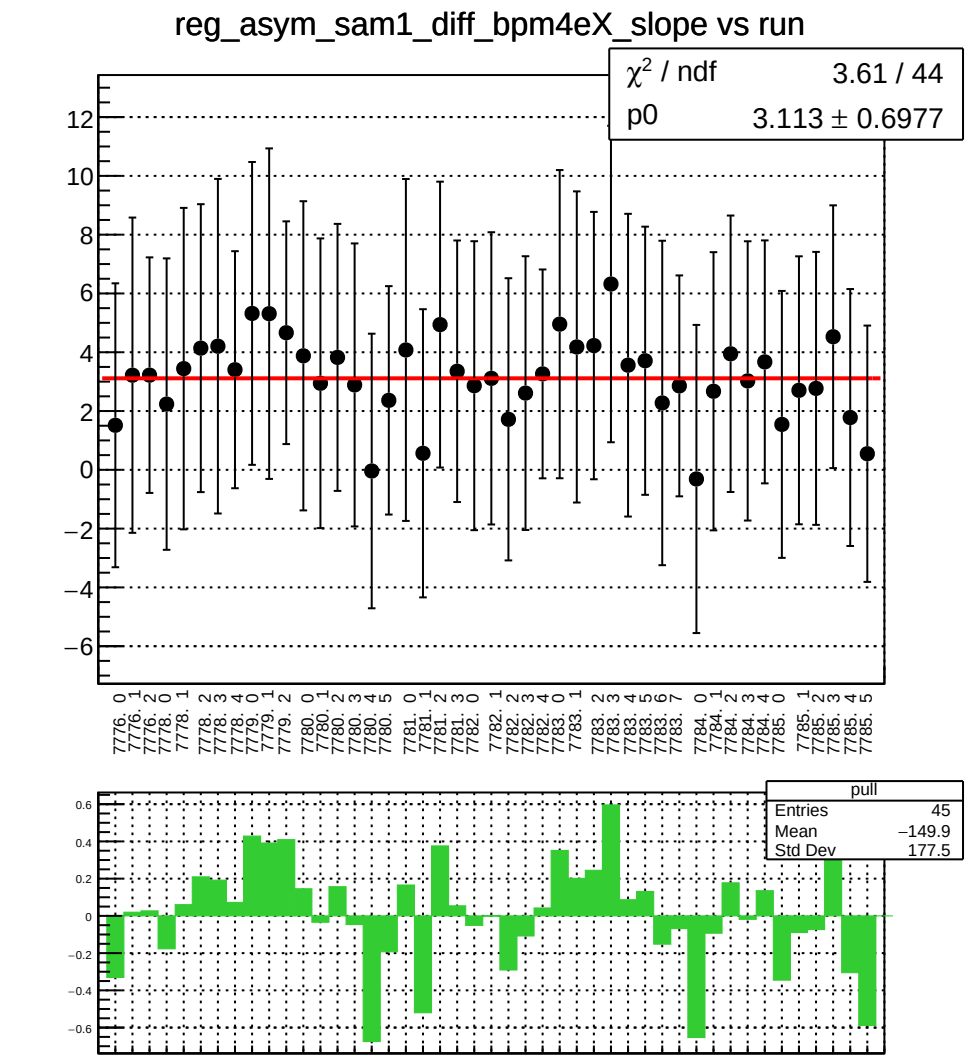
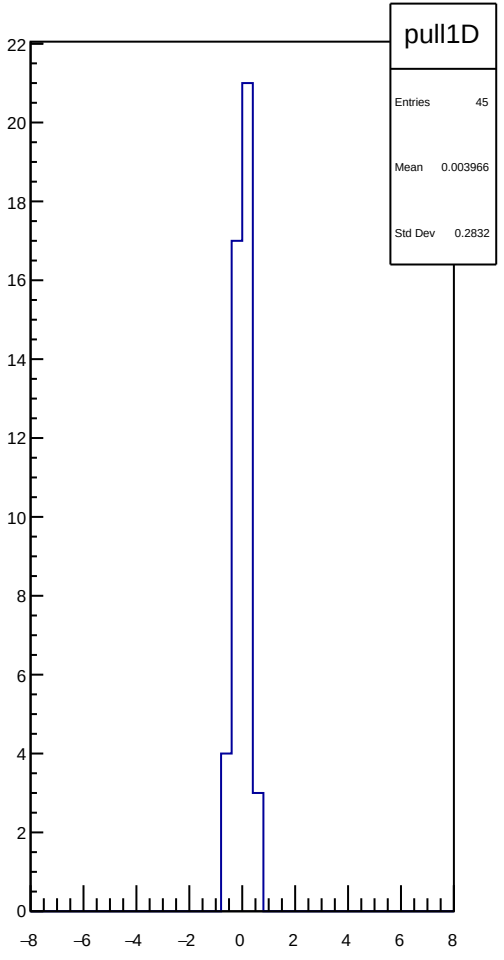

dit_segment_slope vs run
χ² / ndf 2.888e−27 / 44
p0 1.778 ± 0.02066
1.9
1.85
1.8
1.75
1.7
1.65
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 45
Mean 22.5
Std Dev 12.99

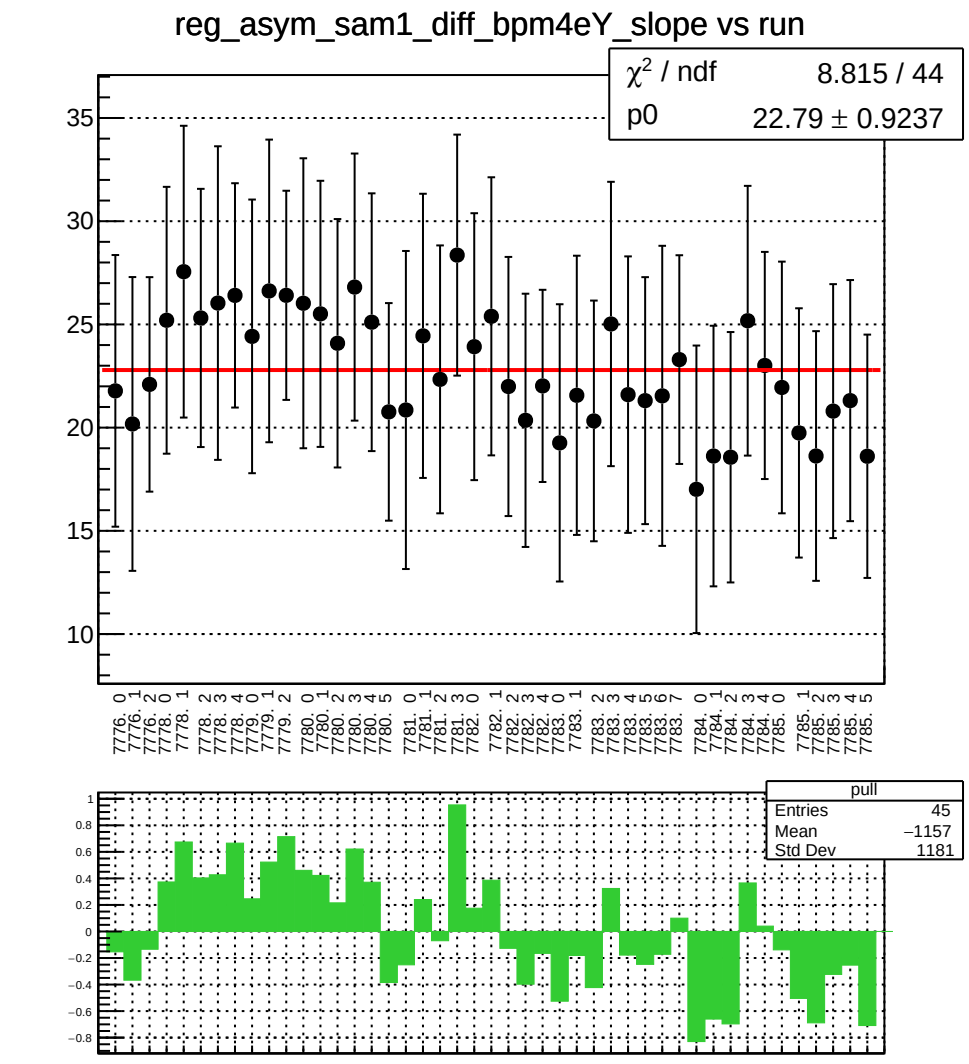

pull1D
Entries 45
Mean −8.011e−15
Std Dev2.118e−22
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

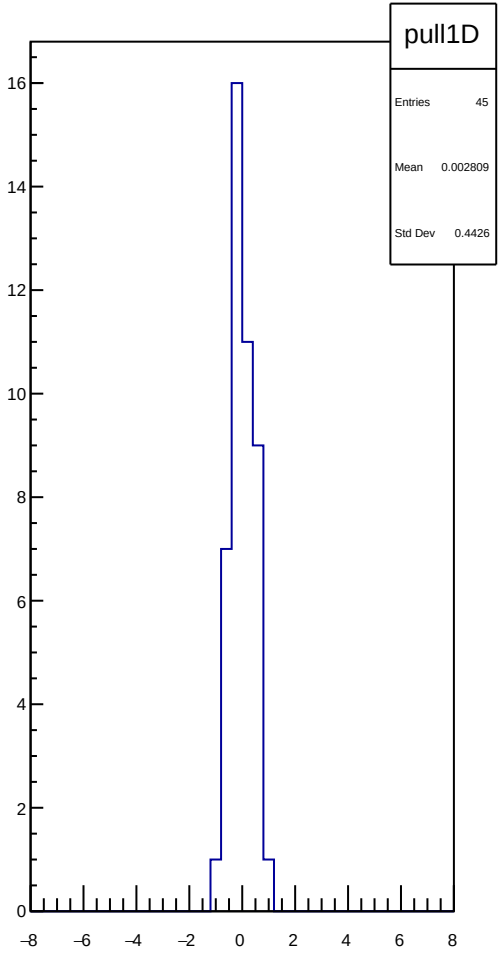

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 3.728 / 44
p0 −15.47 ± 0.8013
pull
Entries 45
Mean −181.9
Std Dev 206.9
pull1D
Entries 45
Mean −0.005513
Std Dev 0.2878

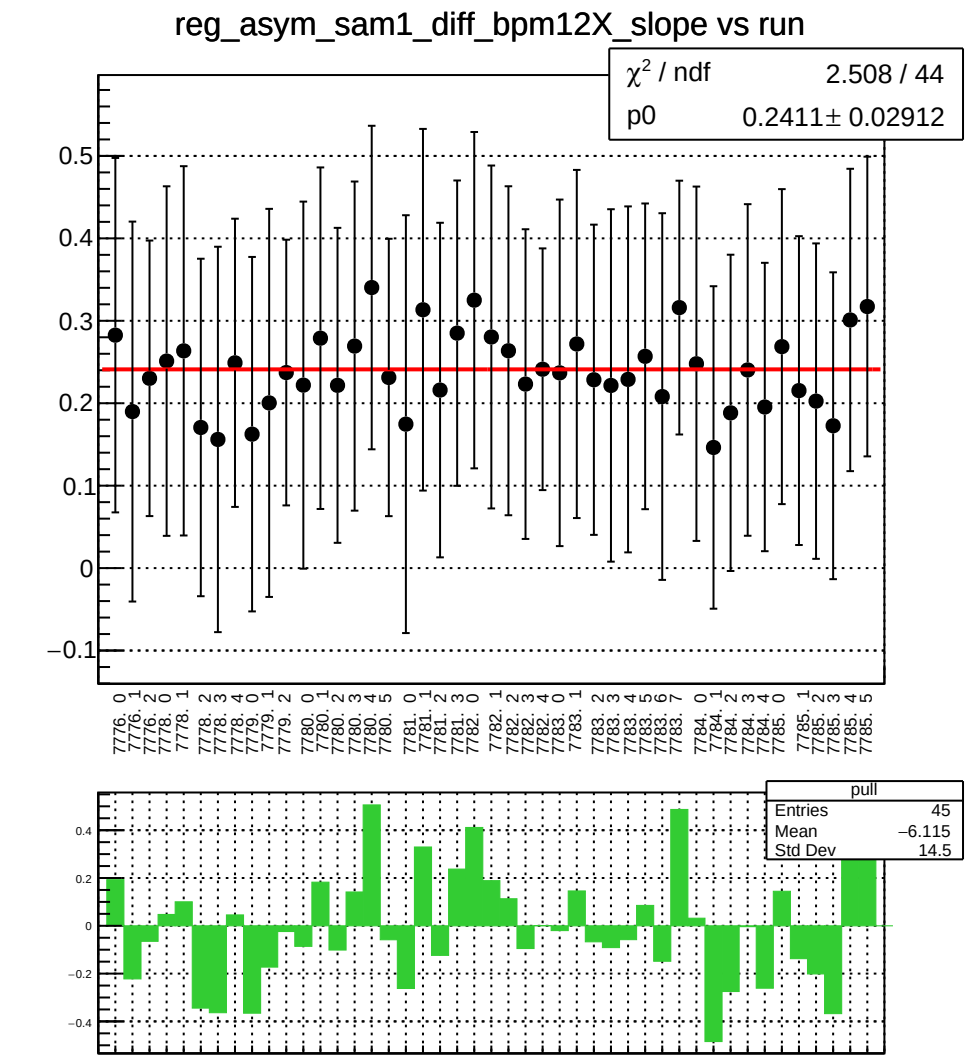

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 9.53 / 44
p0 −63.83 ± 0.8182
−55
−60
−65
−70
−75
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −950.4
Std Dev 974.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.003754
Std Dev 0.4602
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

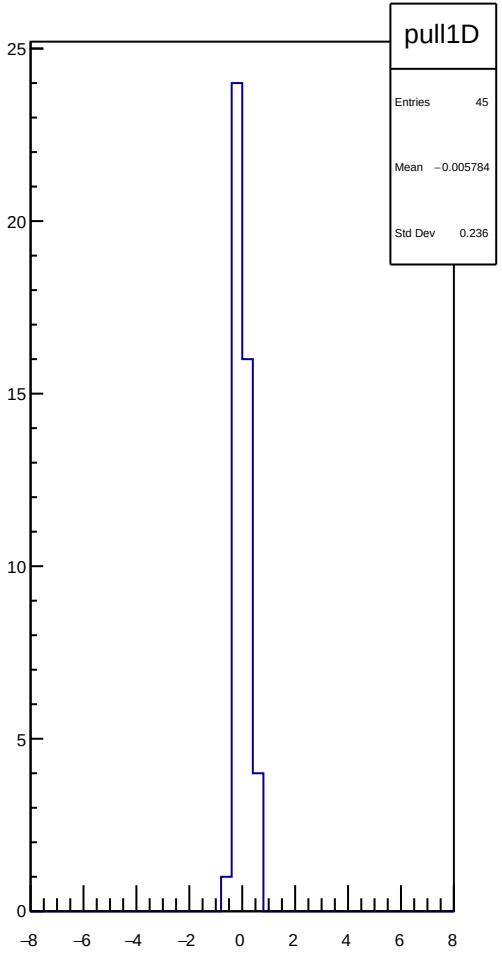

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 3.61 / 44
p0 3.113 ± 0.6977
pull
Entries 45
Mean −149.9
Std Dev 177.5

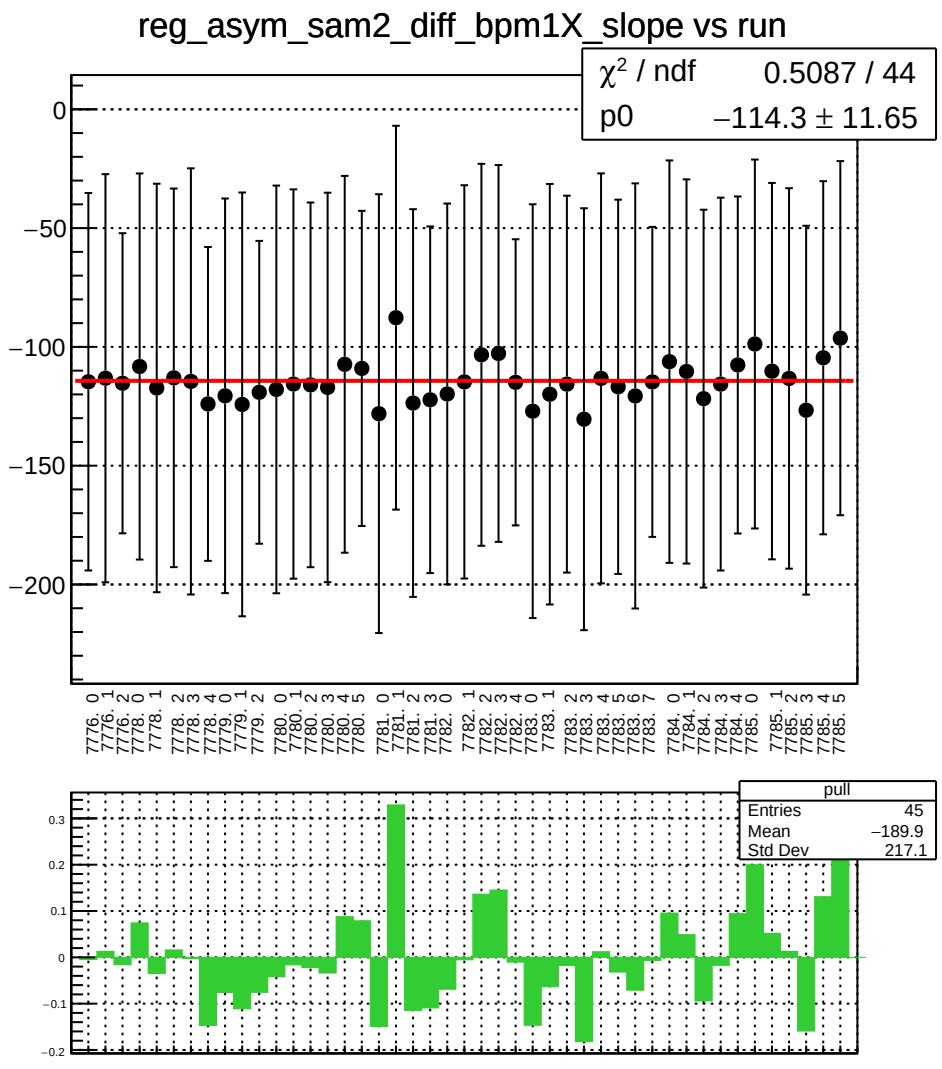

pull1D
Entries 45
Mean 0.003966
Std Dev 0.2832


reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 8.815 / 44
p0 22.79 ± 0.9237
pull
Entries 45
Mean −1157
Std Dev 1181


pull1D
Entries 45
Mean 0.002809
Std Dev 0.4426


reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 2.508 / 44
p0 0.2411± 0.02912
pull
Entries 45
Mean −6.115
Std Dev 14.5


pull1D
Entries 45
Mean −0.005784
Std Dev 0.236


reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 0.5087 / 44
p0 −114.3 ± 11.65
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
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7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
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7784. 2
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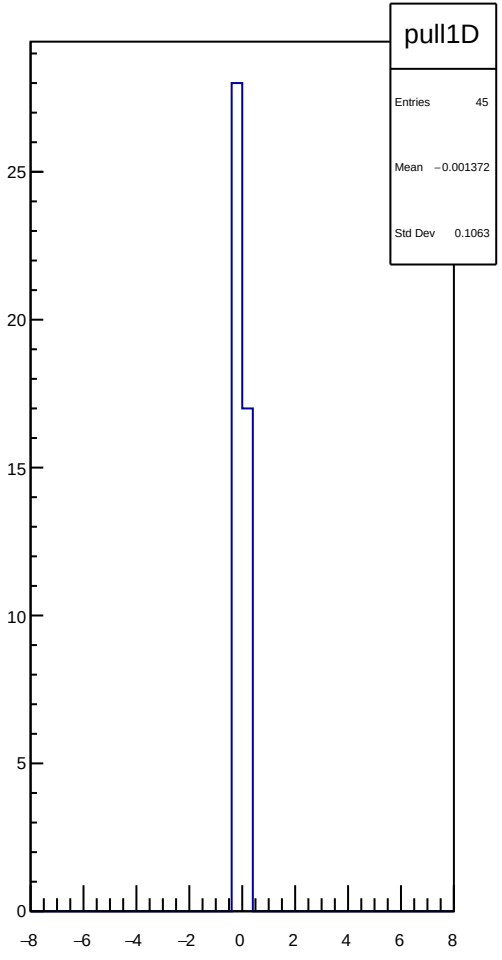
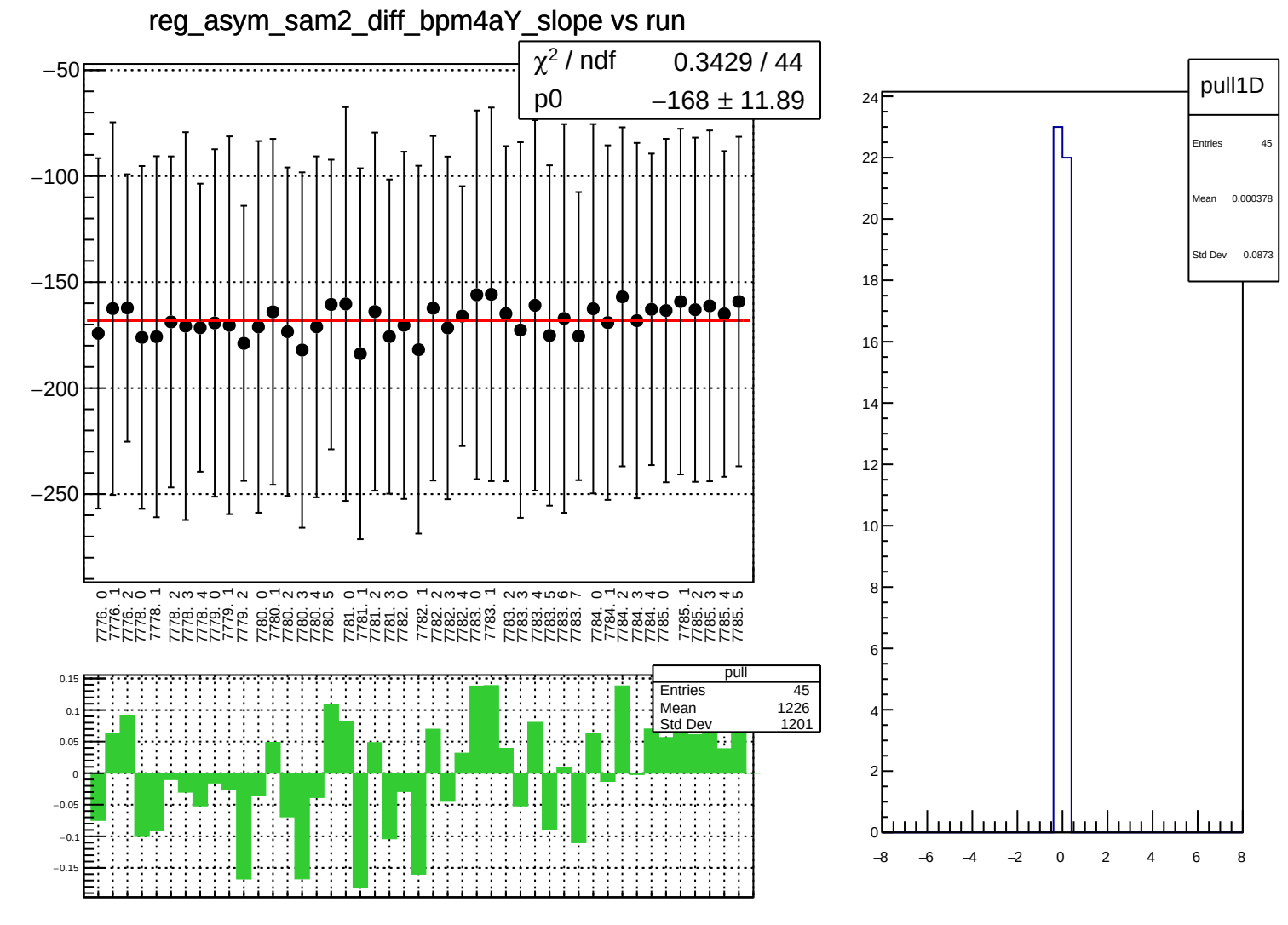
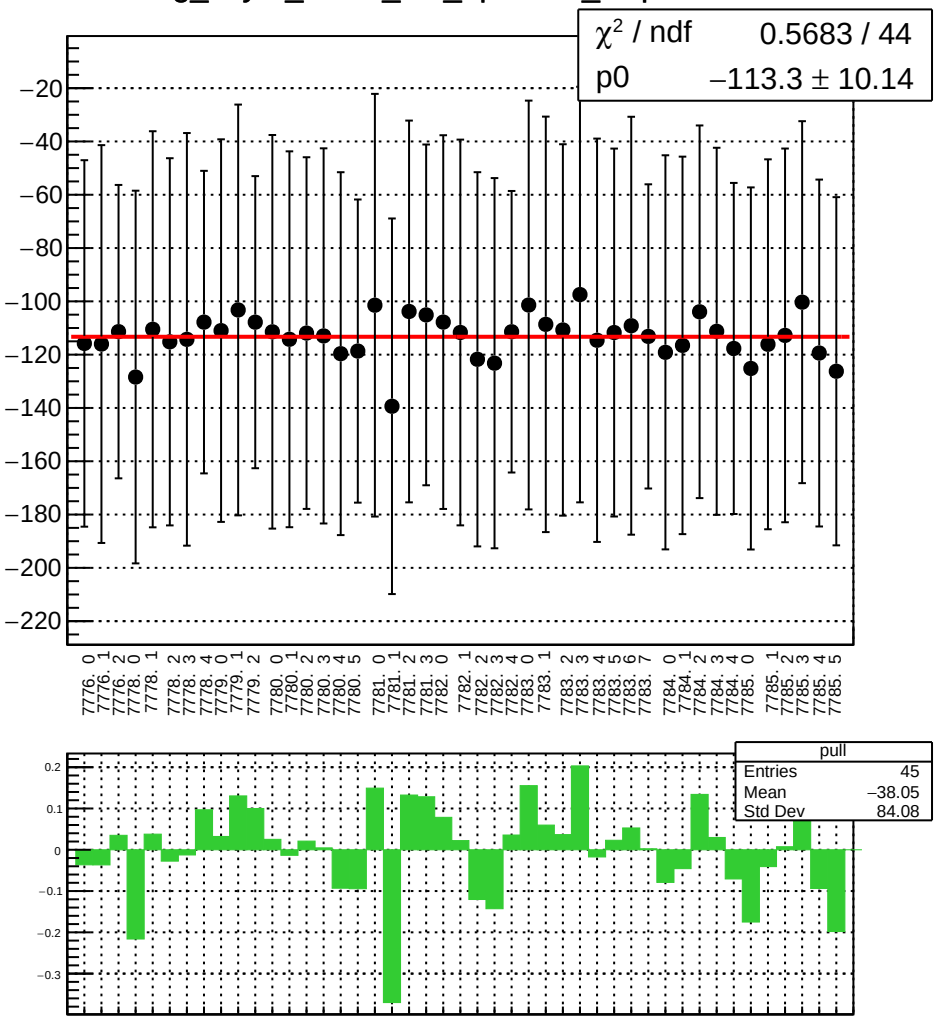
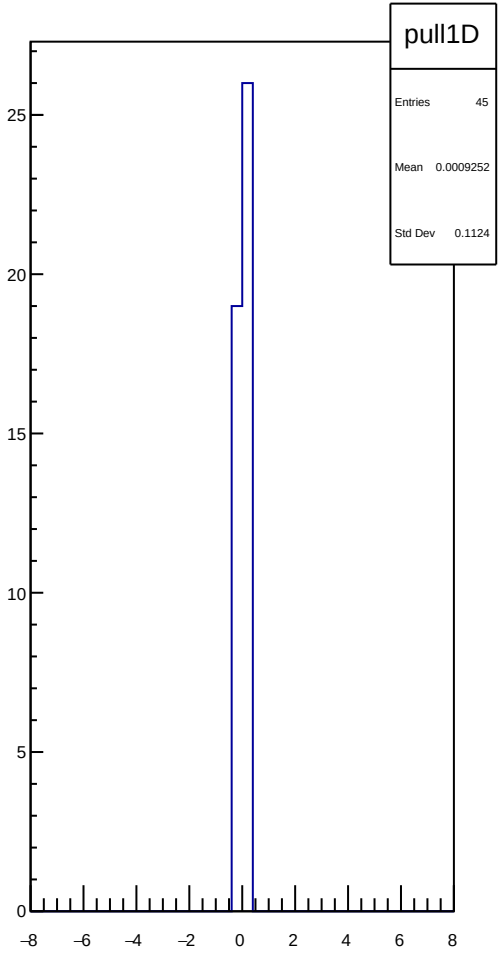
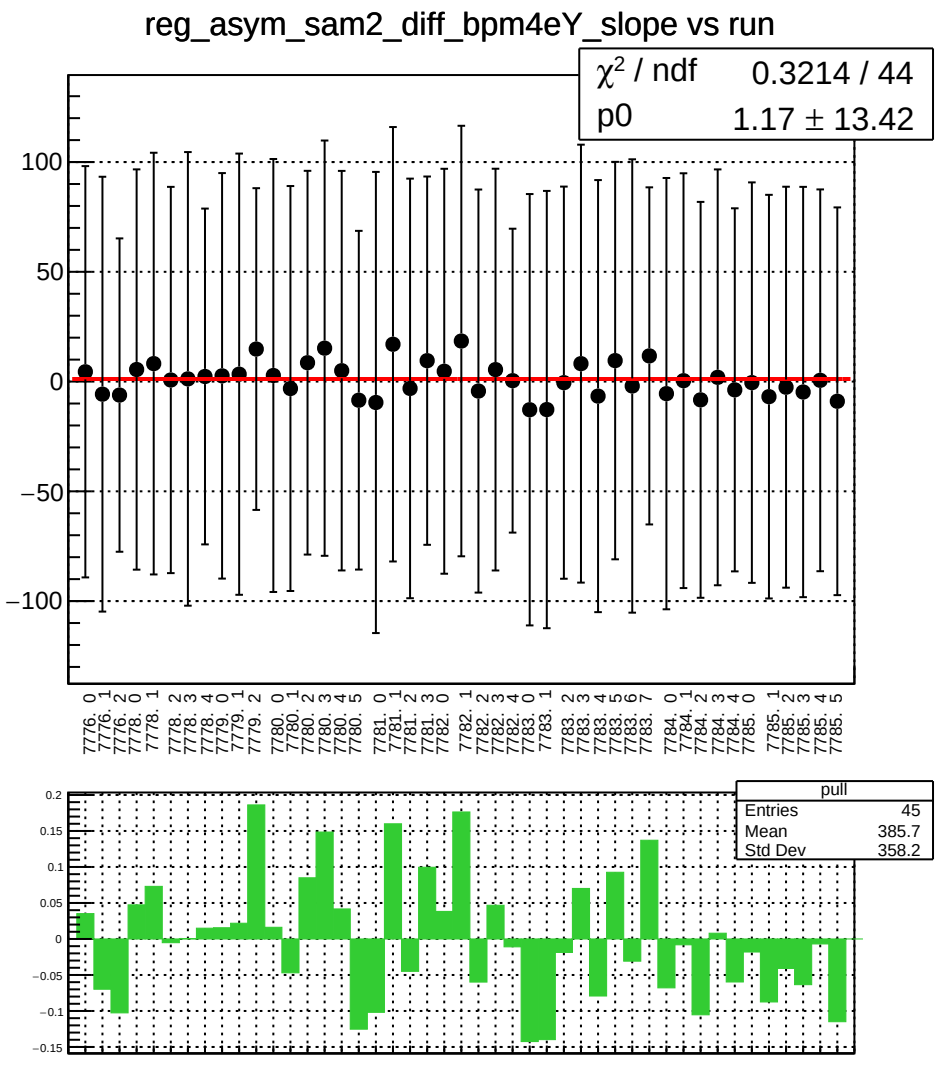
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −189.9
Std Dev 217.1
0.3
0.2
0.1
0
−0.1
−0.2

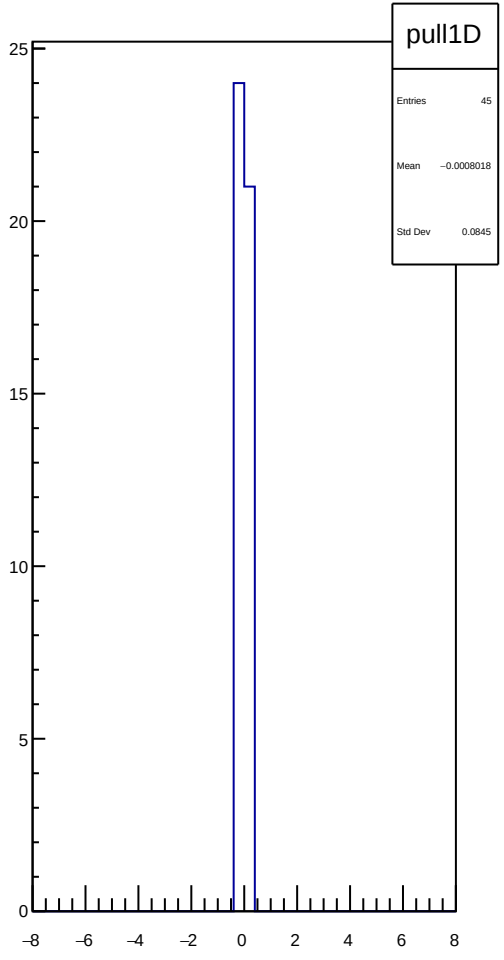

pull1D
Entries 45
Mean −0.001372
Std Dev 0.1063
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

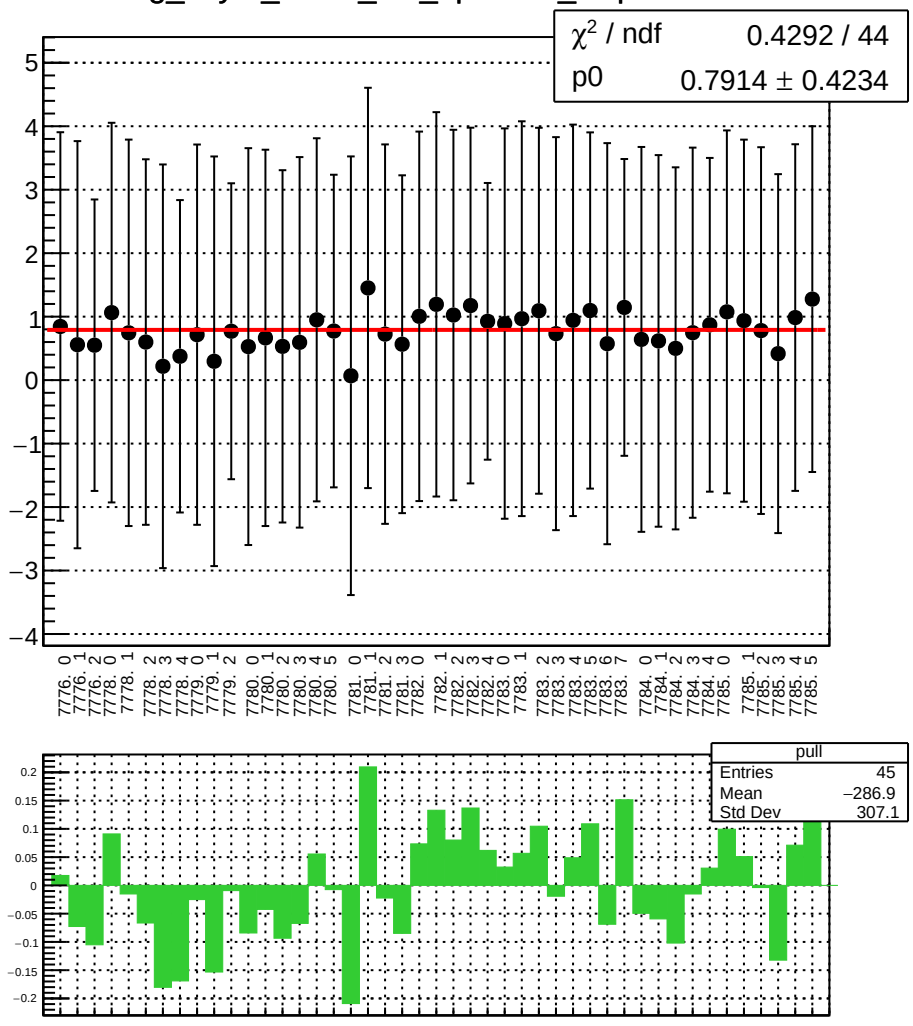

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.3429 / 44
p0 −168 ± 11.89
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1226
Std Dev 1201
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull1D
Entries 45
Mean 0.000378
Std Dev 0.0873
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

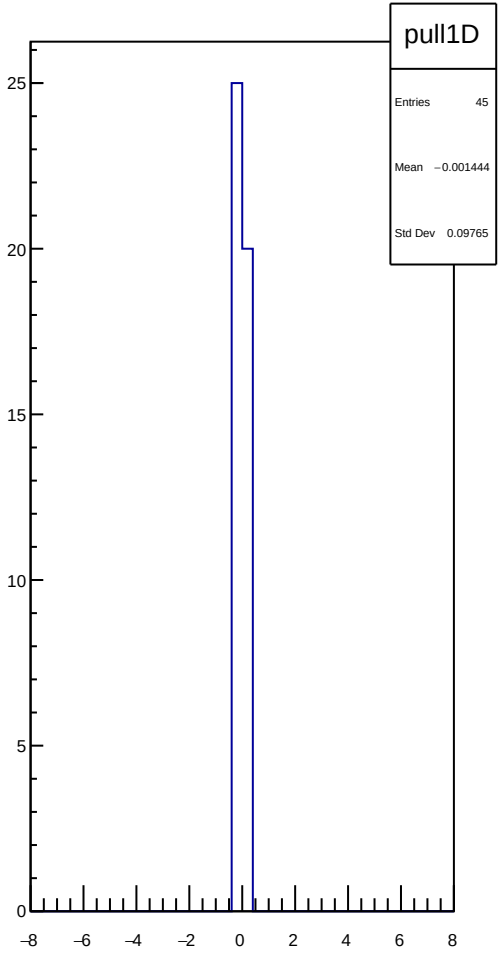

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.5683 / 44
p0 −113.3 ± 10.14
pull
Entries 45
Mean −38.05
Std Dev 84.08

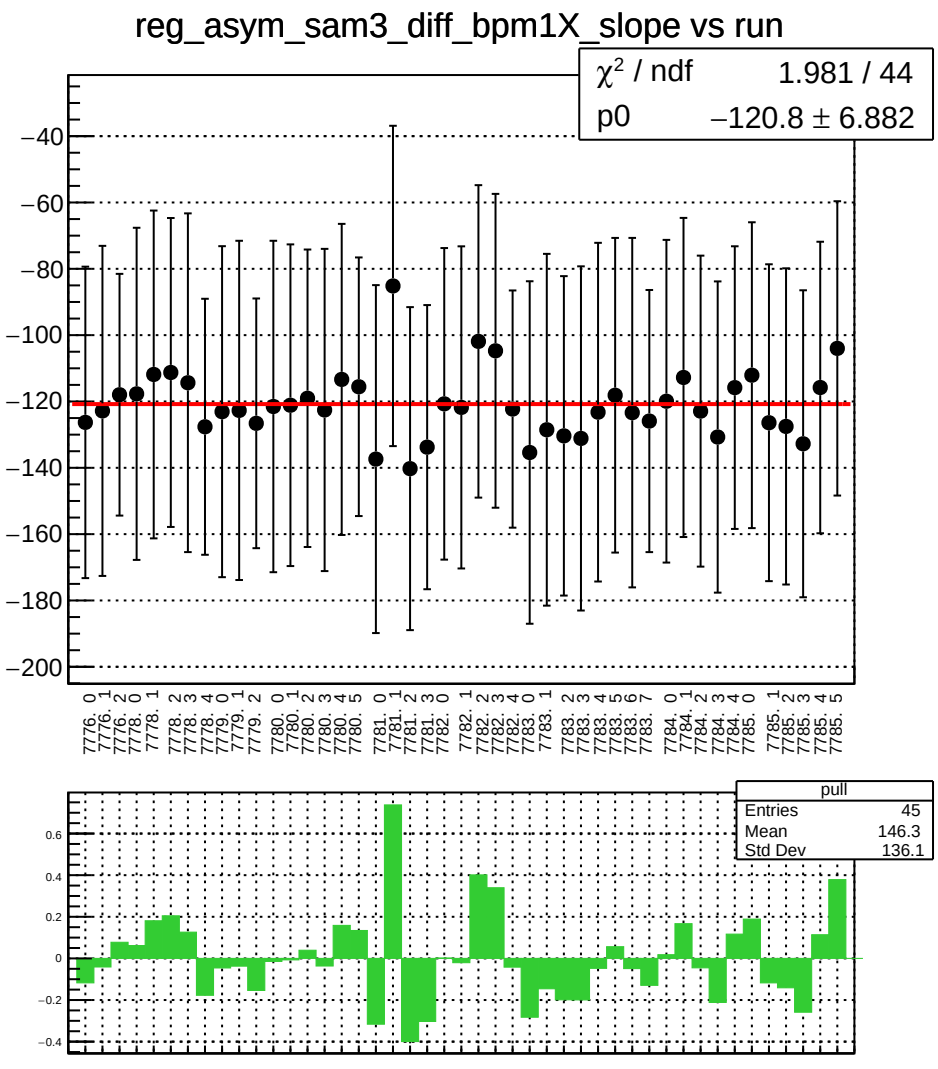

pull1D
Entries 45
Mean 0.0009252
Std Dev 0.1124

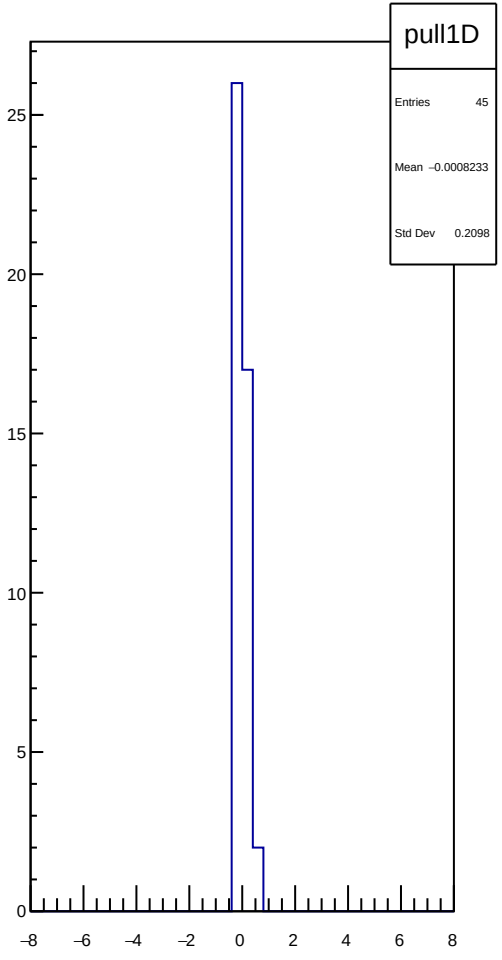

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 0.3214 / 44
p0 1.17 ± 13.42
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 385.7
Std Dev 358.2
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15

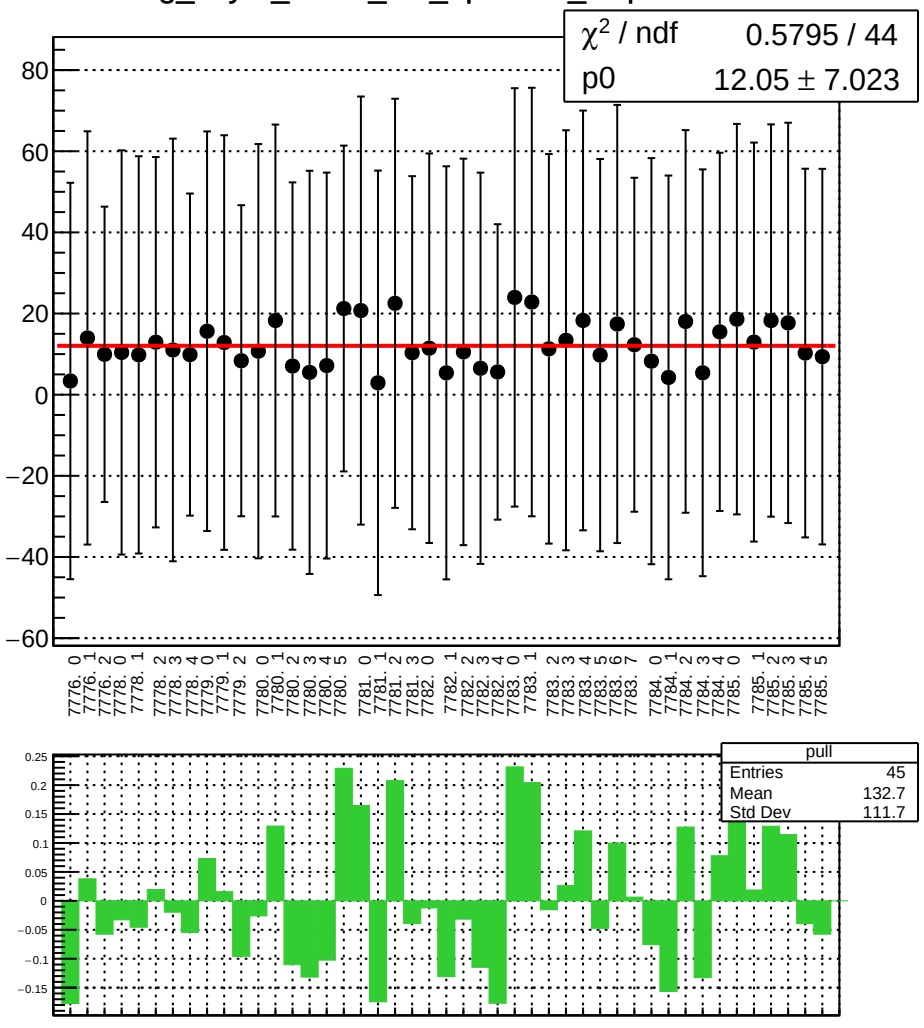

pull1D
Entries 45
Mean −0.0008018
Std Dev 0.0845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

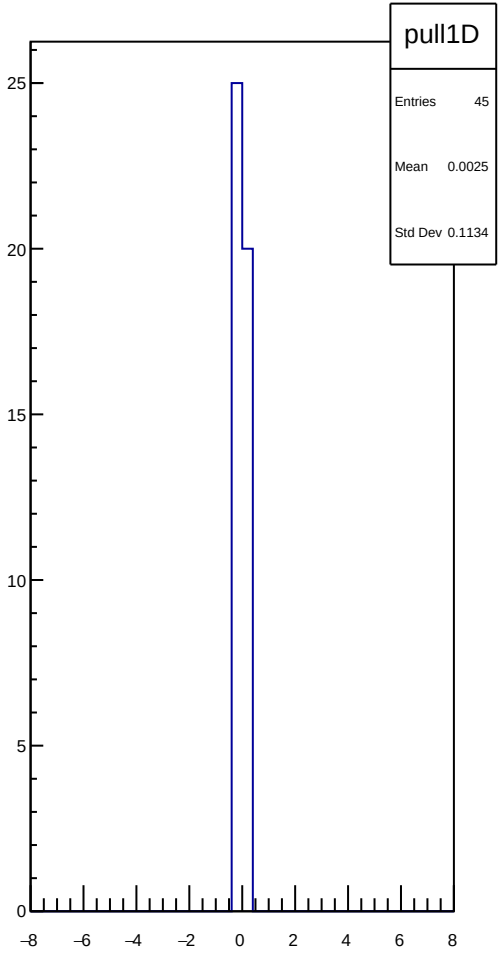

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 0.4292 / 44
p0 0.7914 ± 0.4234
pull
Entries 45
Mean −286.9
Std Dev 307.1

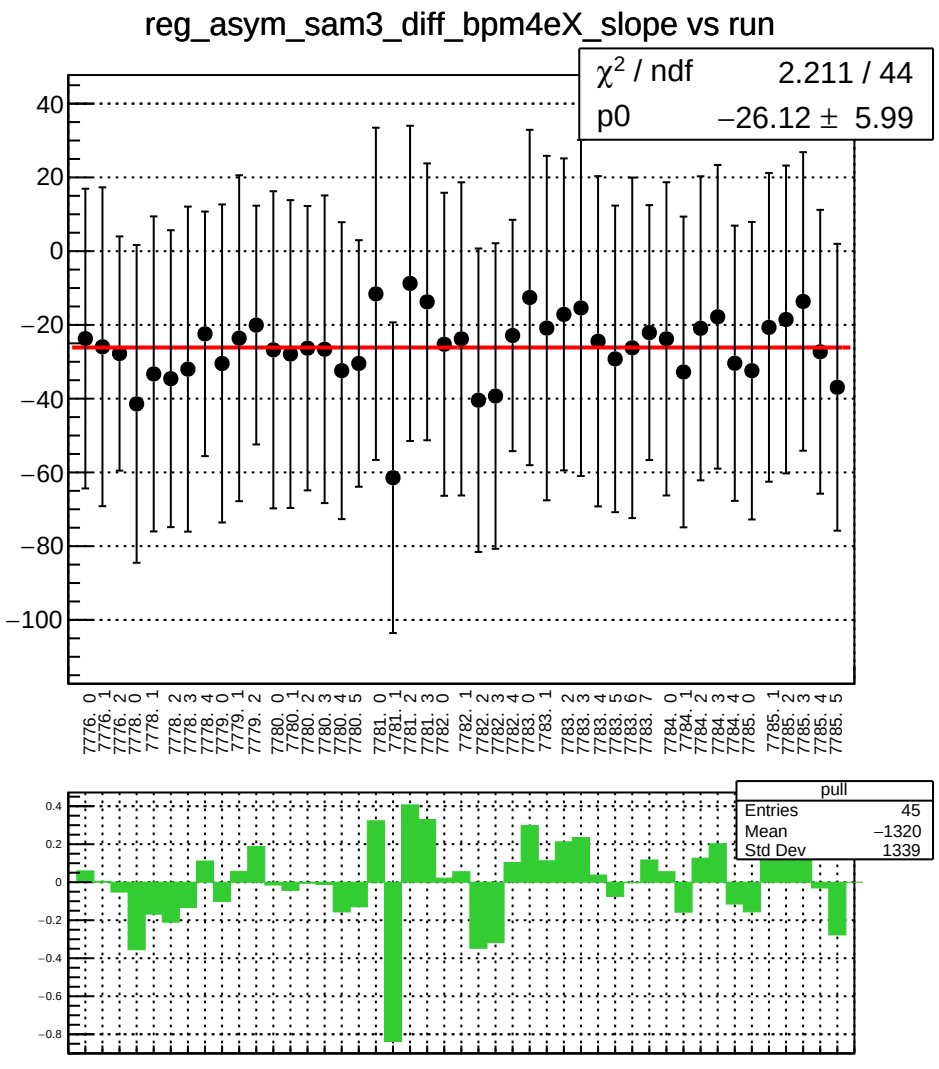

pull1D
Entries 45
Mean −0.001444
Std Dev 0.09765

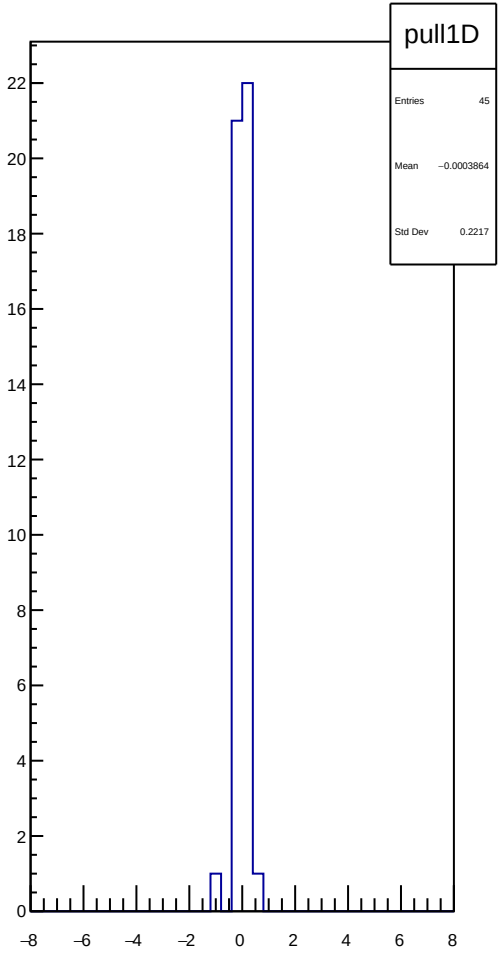

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 1.981 / 44
p0 −120.8 ± 6.882
−40
−60
−80
−100
−120
−140
−160
−180
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 146.3
Std Dev 136.1
0.6
0.4
0.2
0
−0.2
−0.4

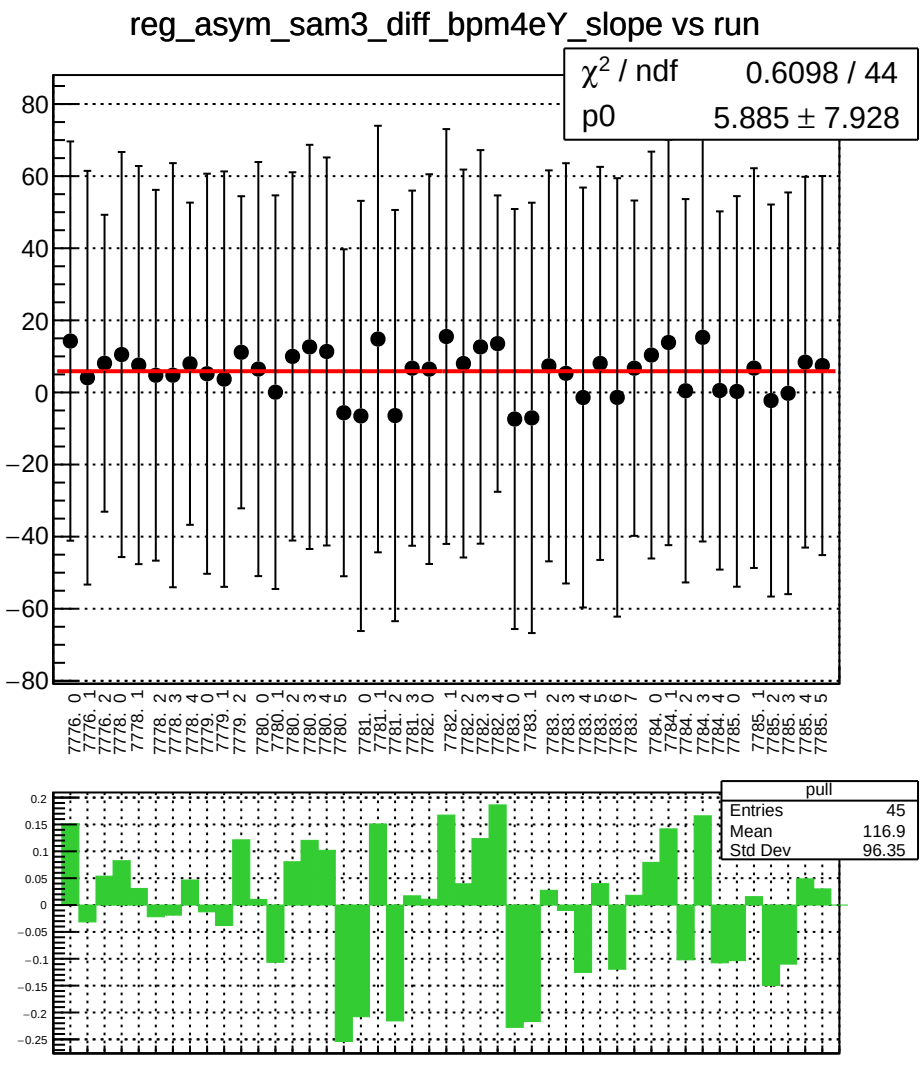

pull1D
Entries 45
Mean −0.0008233
Std Dev 0.2098
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

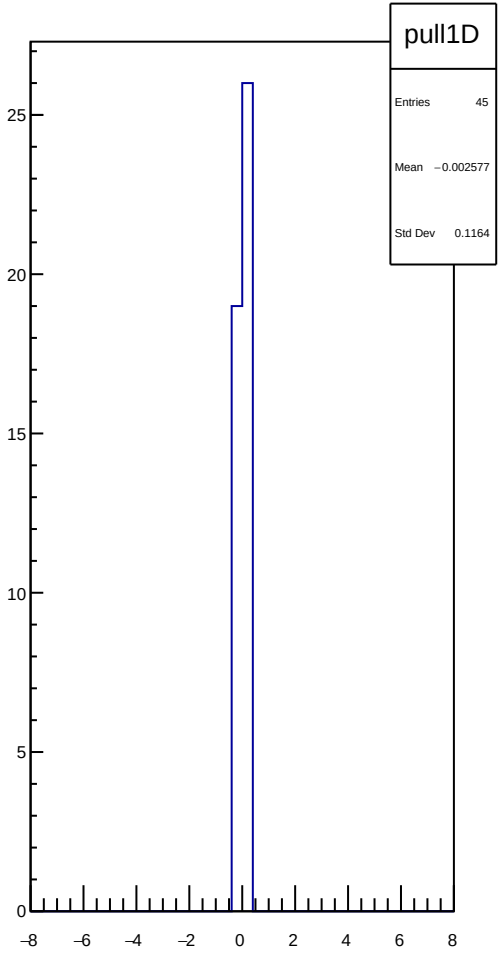

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 0.5795 / 44
p0 12.05 ± 7.023
pull
Entries 45
Mean 132.7
Std Dev 111.7

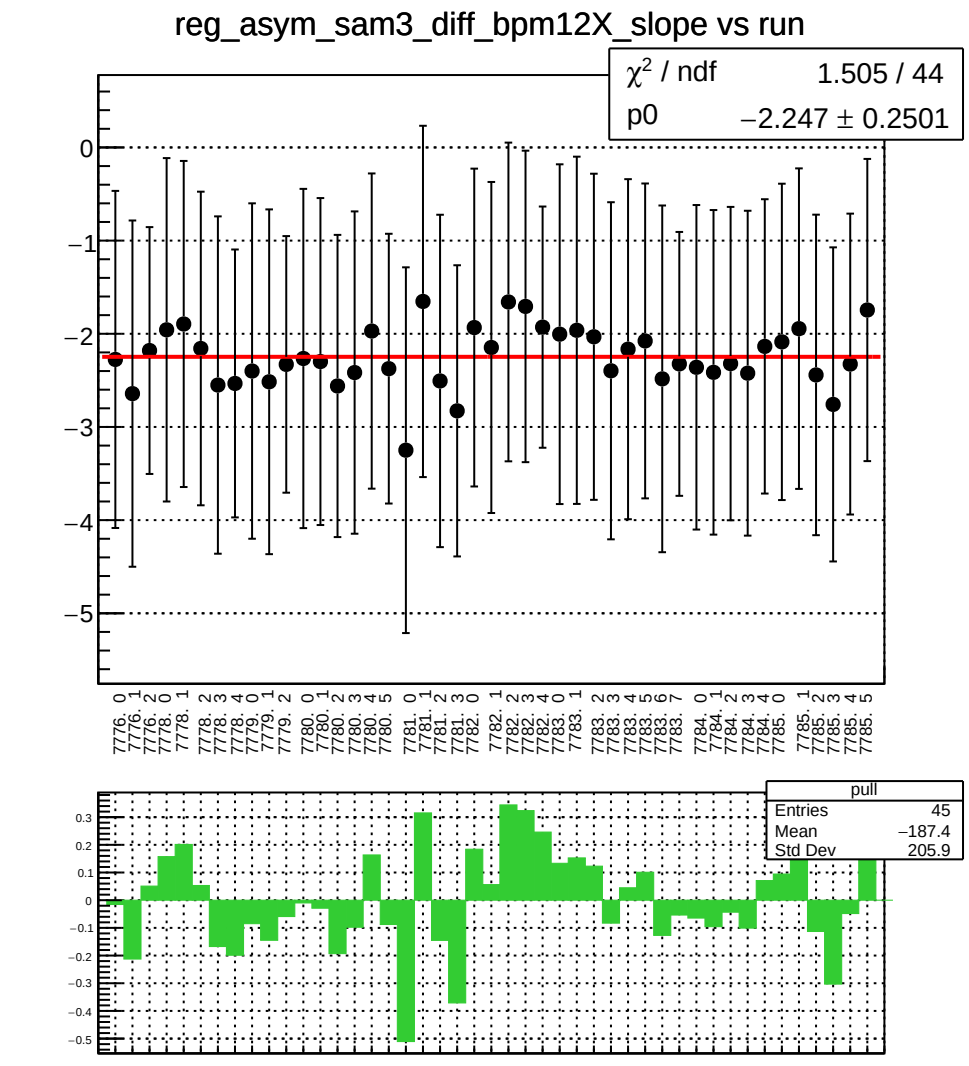

pull1D
Entries 45
Mean 0.0025
Std Dev 0.1134

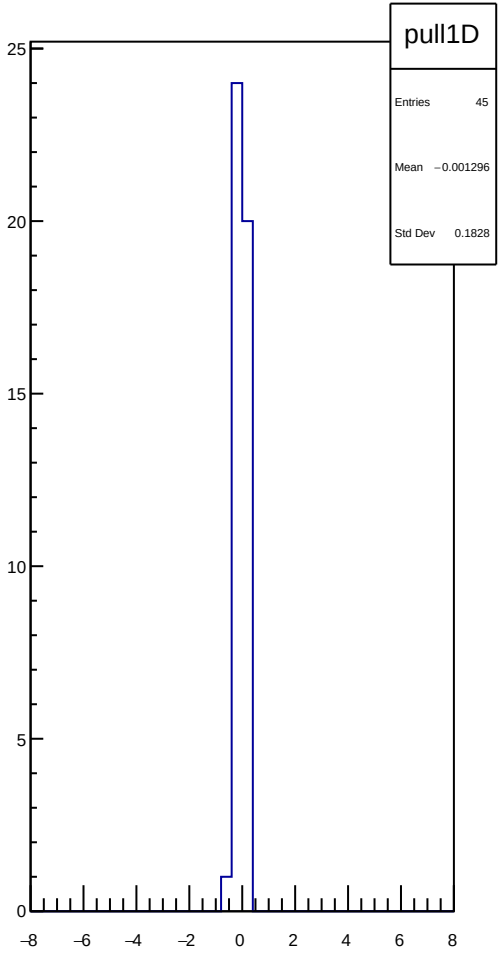

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 2.211 / 44
p0 −26.12 ± 5.99
pull
Entries 45
Mean −1320
Std Dev 1339

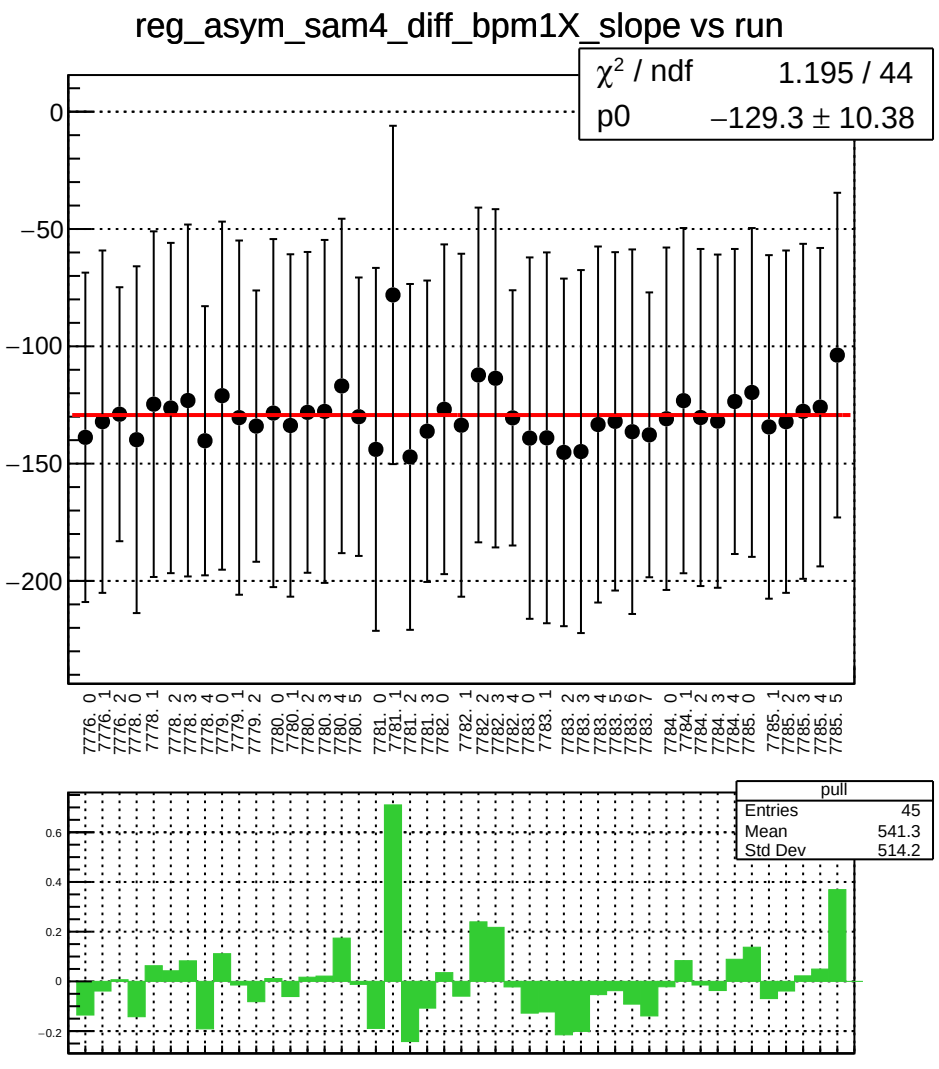

pull1D
Entries 45
Mean −0.0003864
Std Dev 0.2217

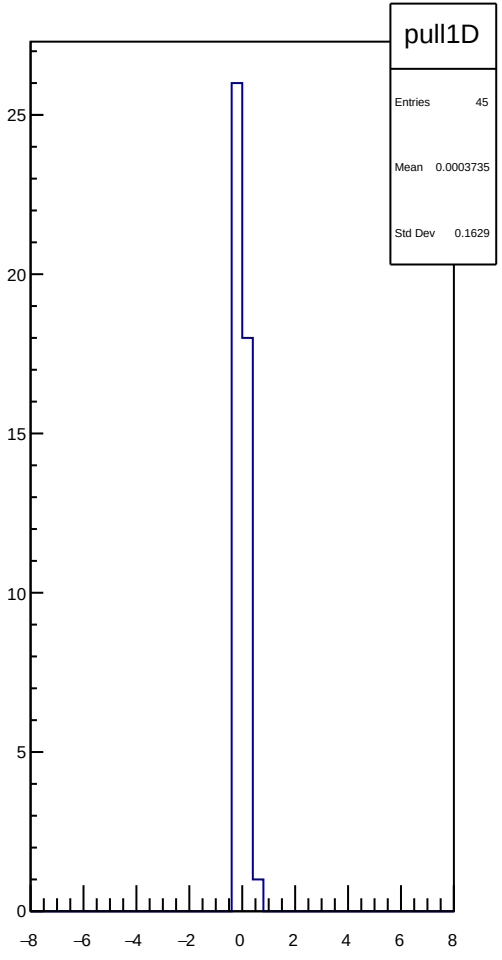

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 0.6098 / 44
p0 5.885 ± 7.928
pull
Entries 45
Mean 116.9
Std Dev 96.35

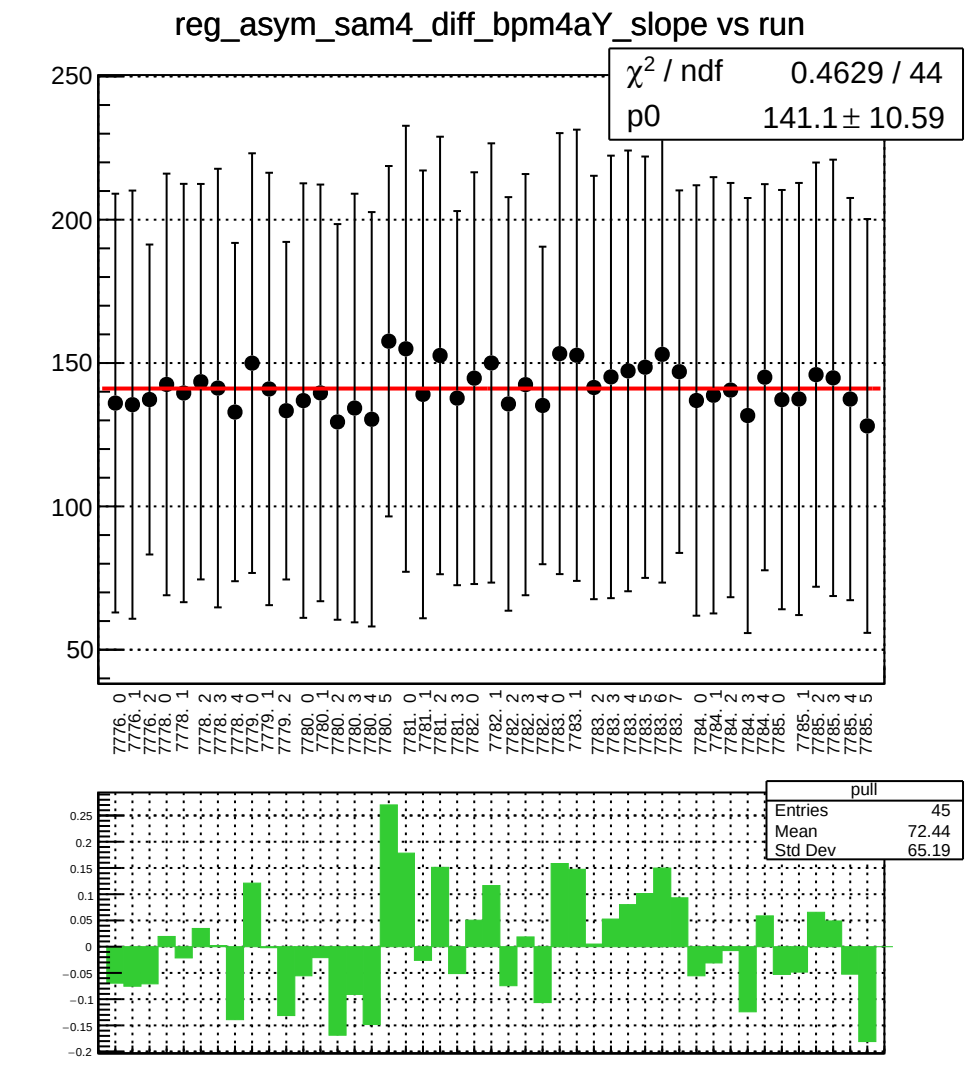

pull1D
Entries 45
Mean −0.002577
Std Dev 0.1164

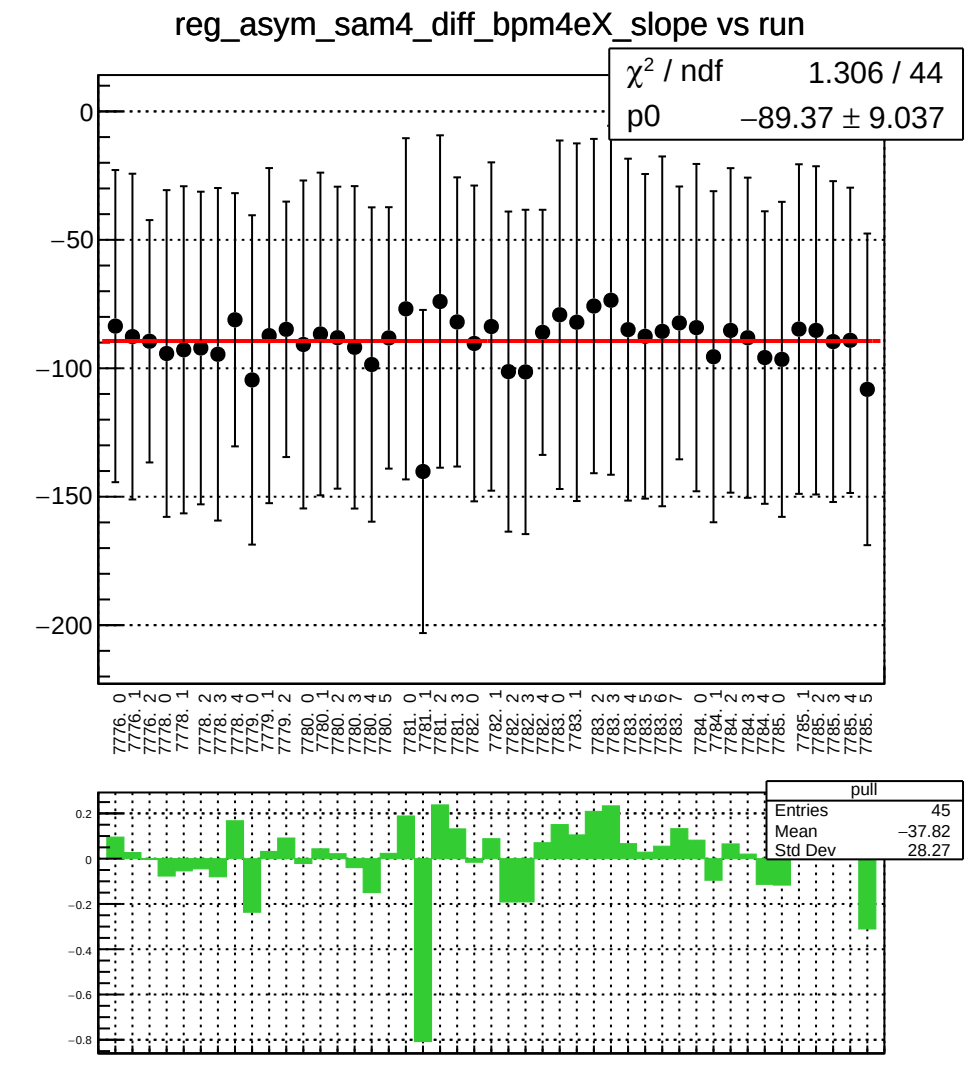

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 1.505 / 44
p0 −2.247 ± 0.2501
pull
Entries 45
Mean −187.4
Std Dev 205.9

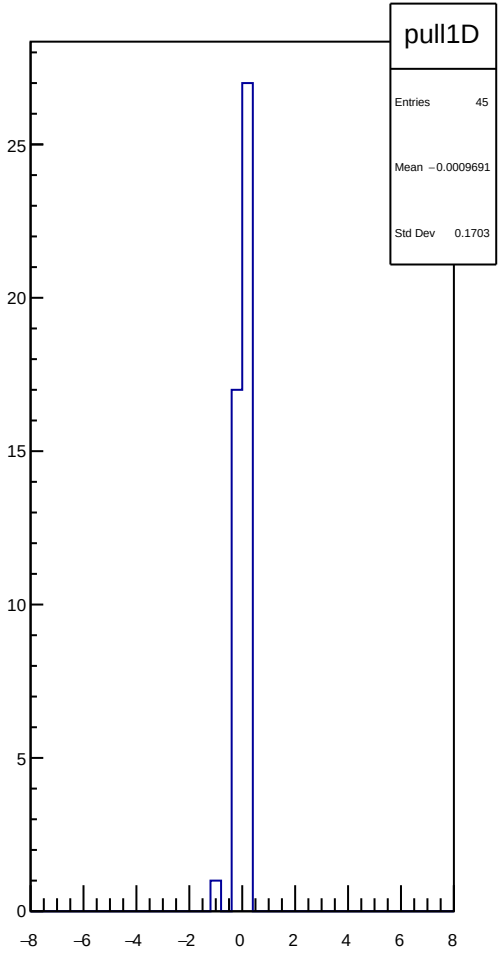

pull1D
Entries 45
Mean −0.001296
Std Dev 0.1828

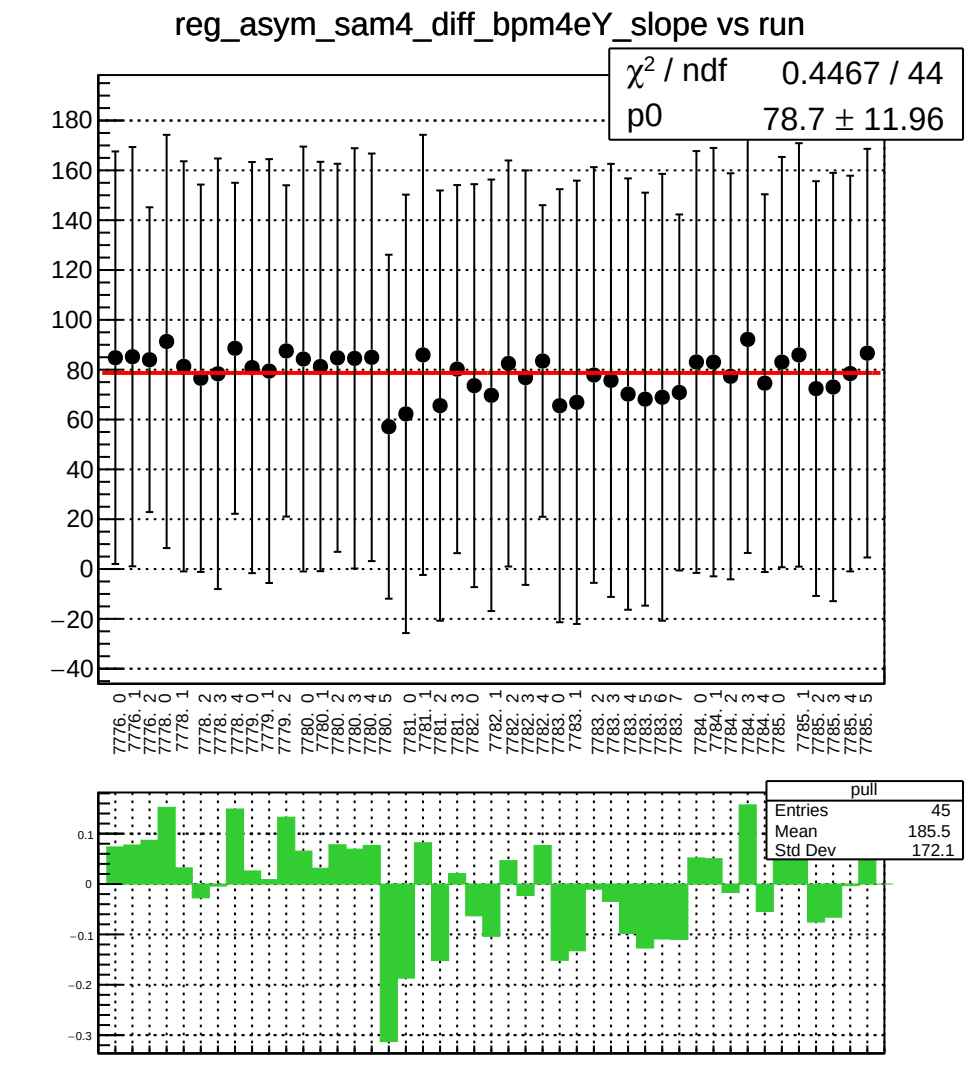

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 1.195 / 44
p0 −129.3 ± 10.38
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 541.3
Std Dev 514.2
0.6
0.4
0.2
0
−0.2

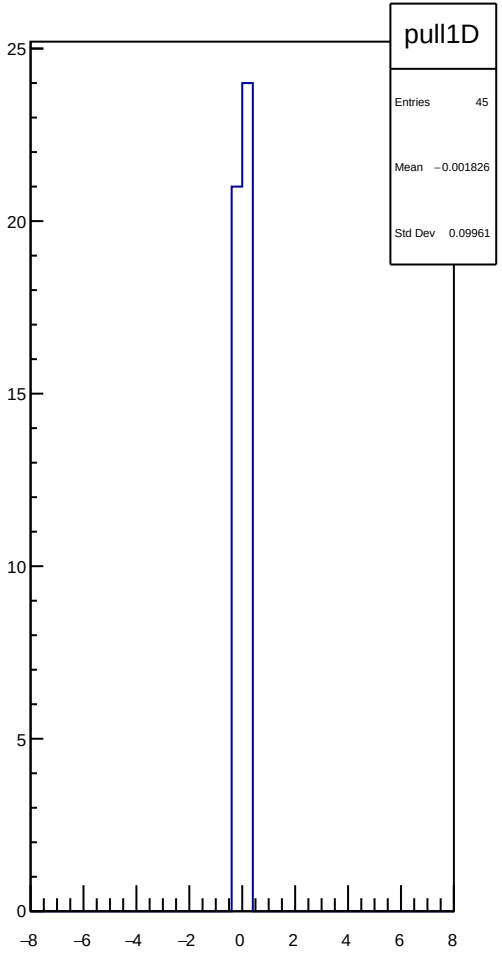

pull1D
Entries 45
Mean 0.0003735
Std Dev 0.1629
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

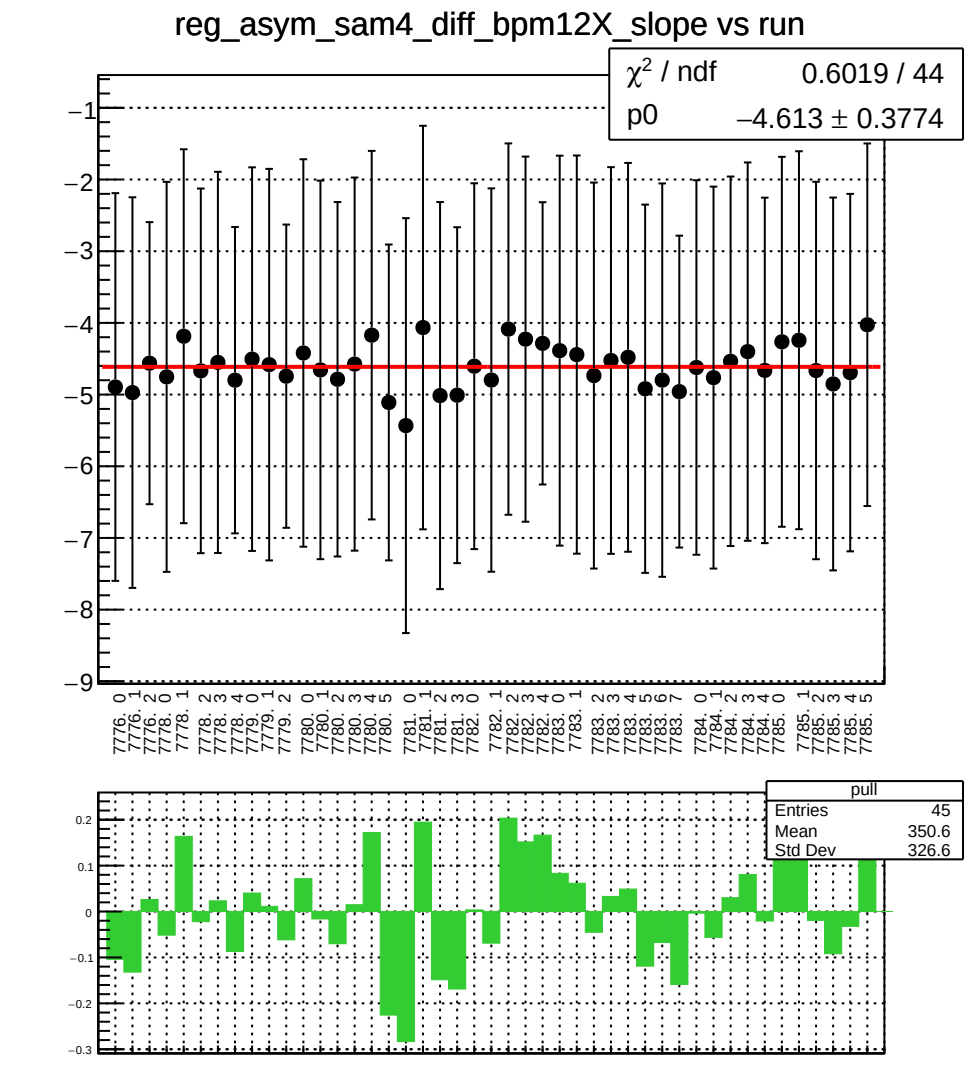

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 0.4629 / 44
p0 141.1 ± 10.59
250
200
150
100
50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 72.44
Std Dev 65.19
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 45
Mean 0.002659
Std Dev 0.1014
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

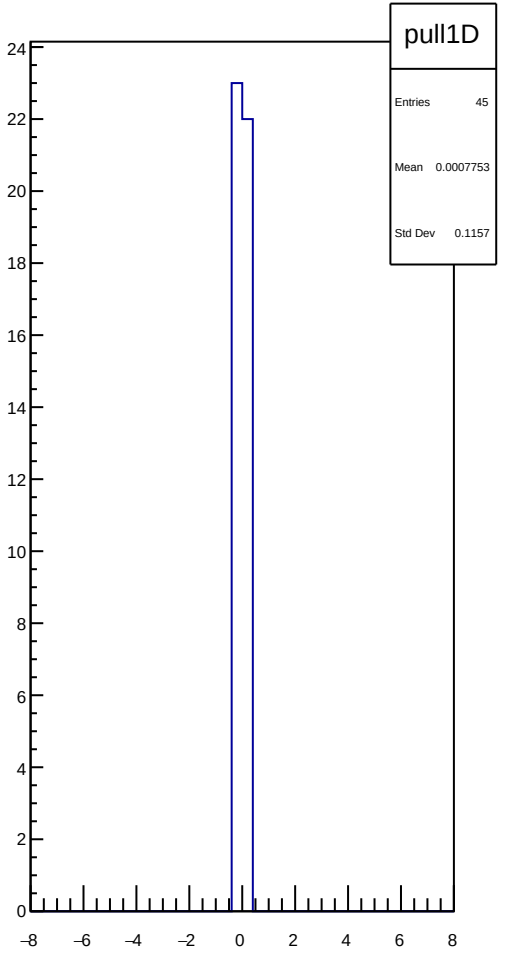

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.306 / 44
p0 −89.37 ± 9.037
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.82
Std Dev 28.27
0.2
0
−0.2
−0.4
−0.6
−0.8

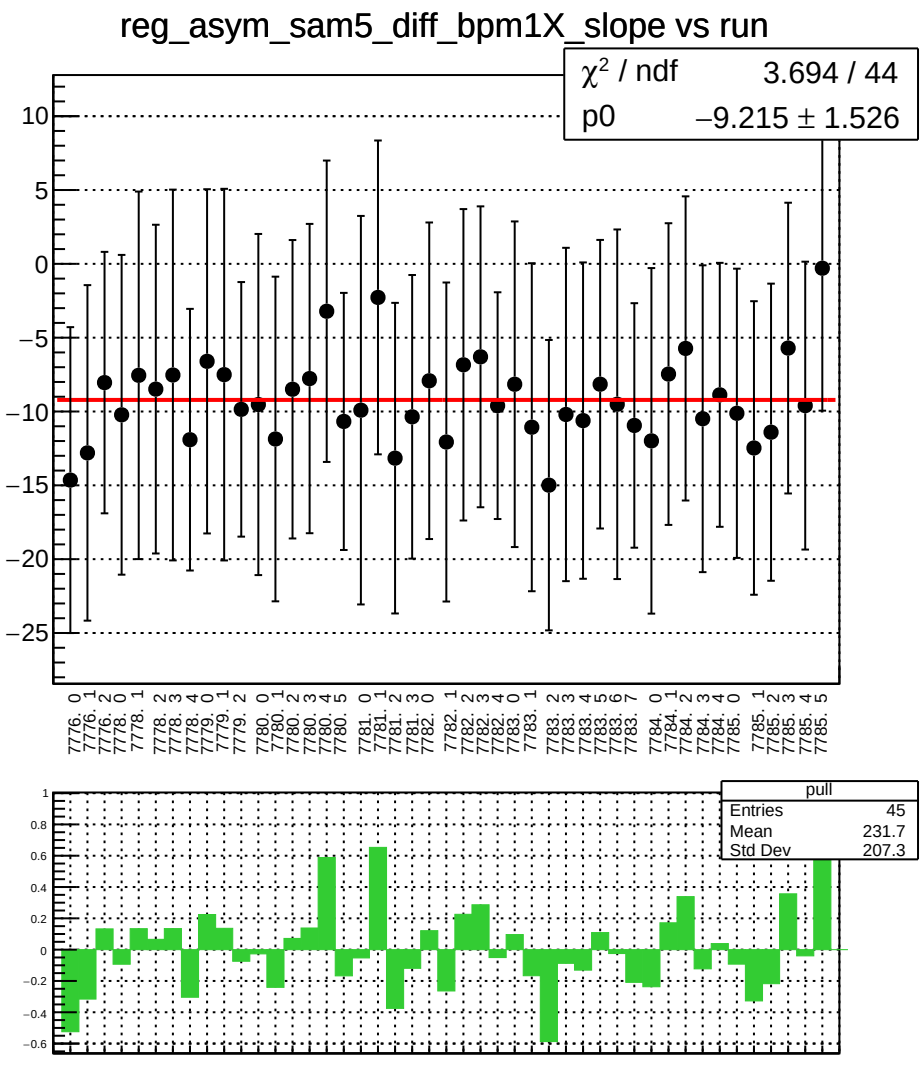

pull1D
Entries 45
Mean −0.0009691
Std Dev 0.1703
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

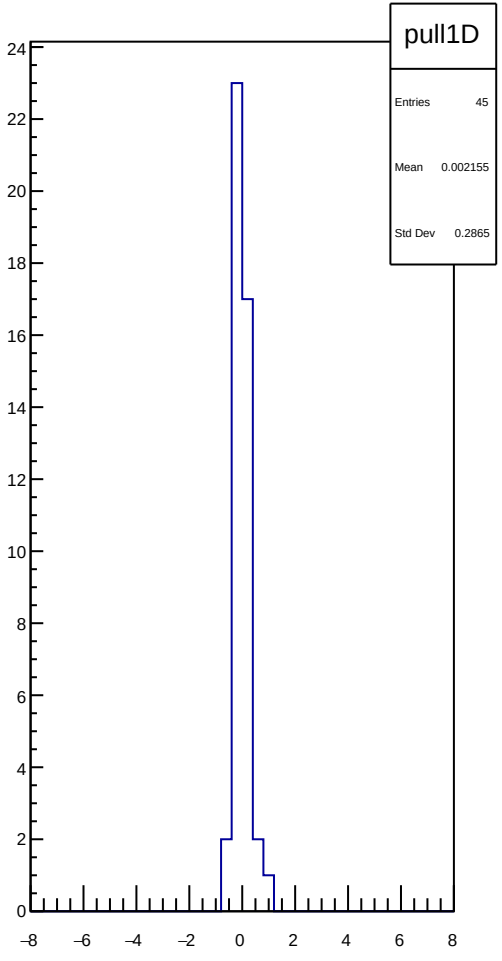

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.4467 / 44
p0 78.7 ± 11.96
pull
Entries 45
Mean 185.5
Std Dev 172.1

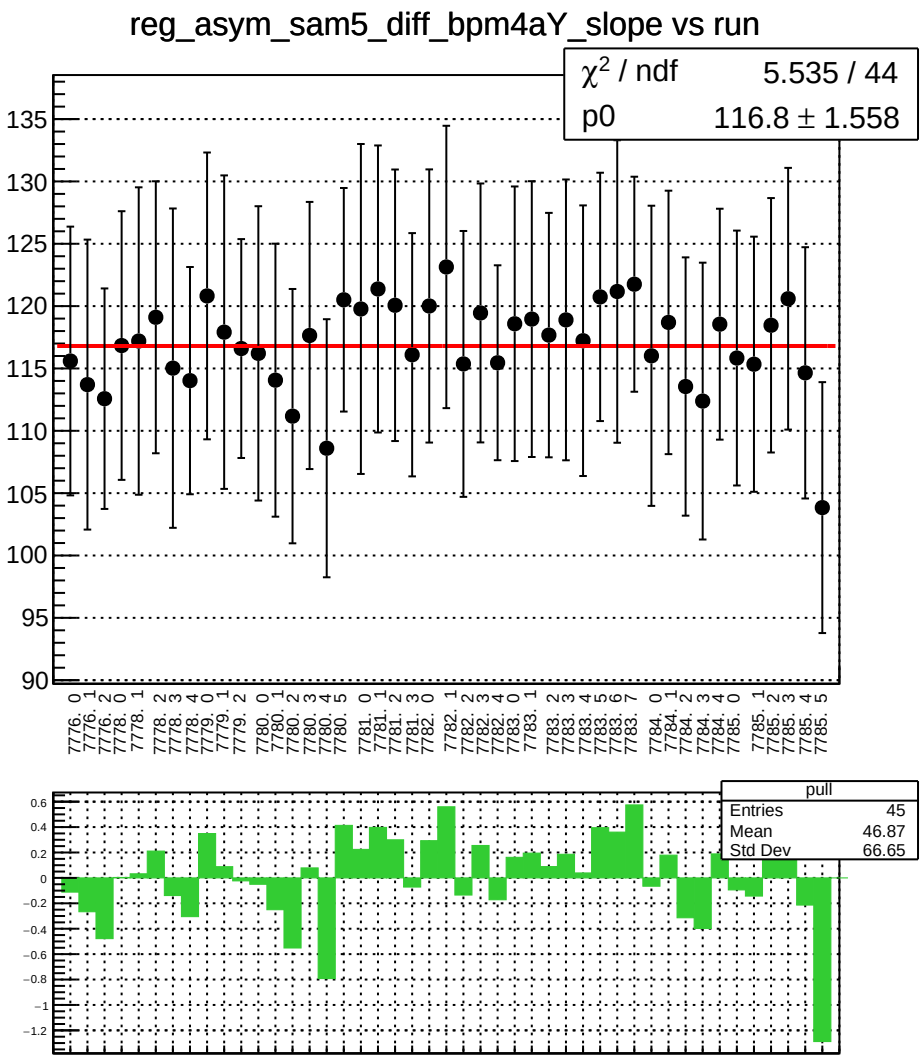

pull1D
Entries 45
Mean −0.001826
Std Dev 0.09961

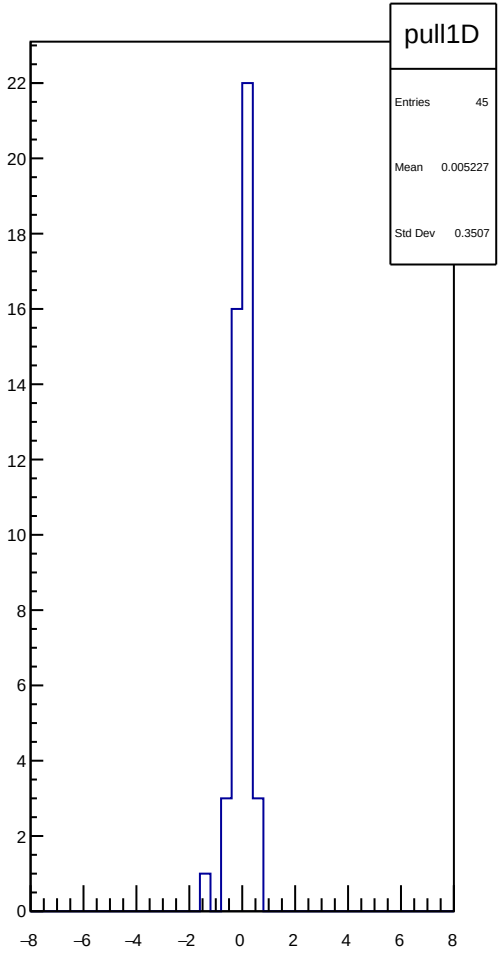

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 0.6019 / 44
p0 −4.613 ± 0.3774
pull
Entries 45
Mean 350.6
Std Dev 326.6

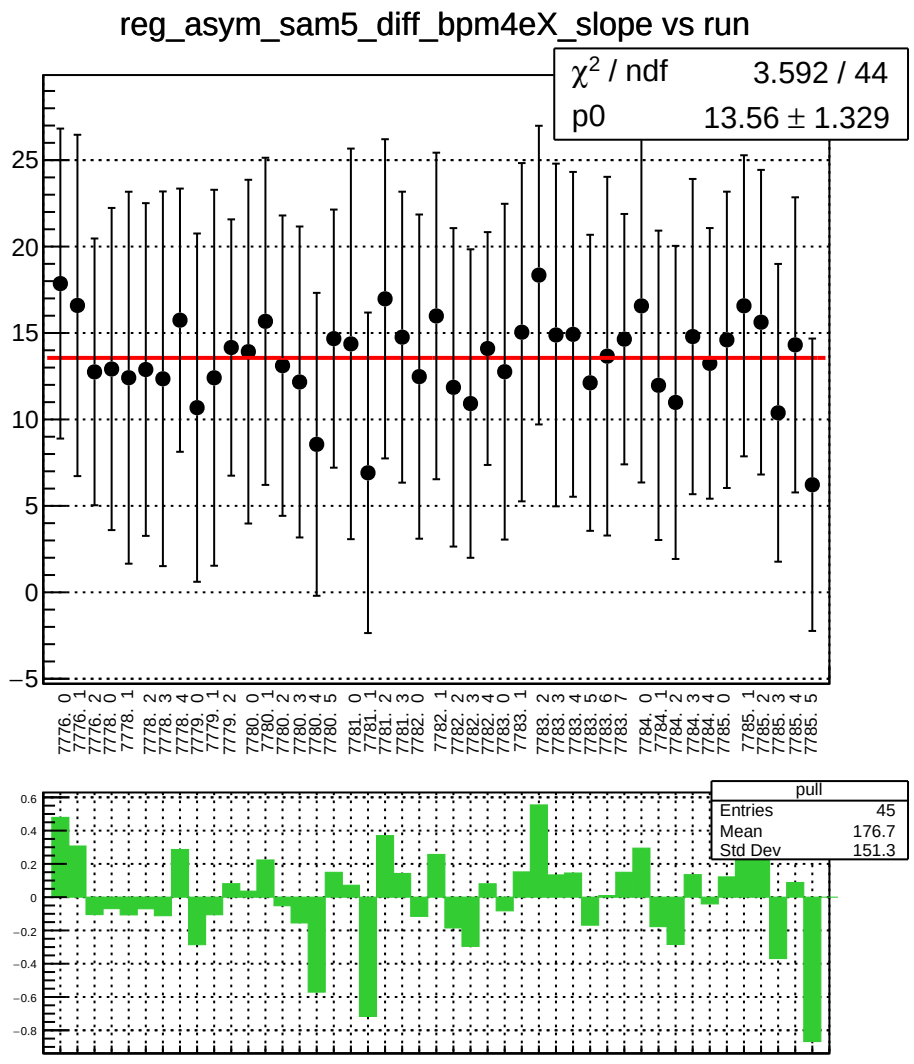

pull1D
Entries 45
Mean 0.0007753
Std Dev 0.1157

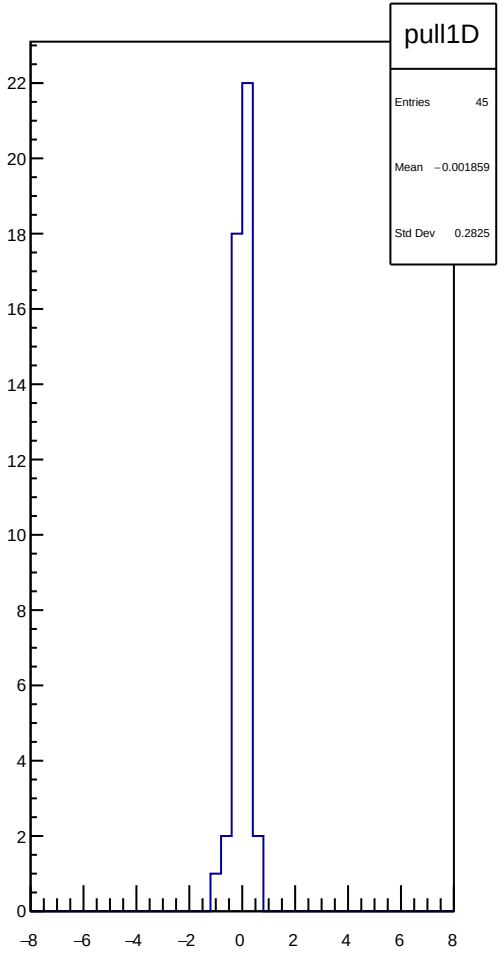

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 3.694 / 44
p0 −9.215 ± 1.526
pull
Entries 45
Mean 231.7
Std Dev 207.3

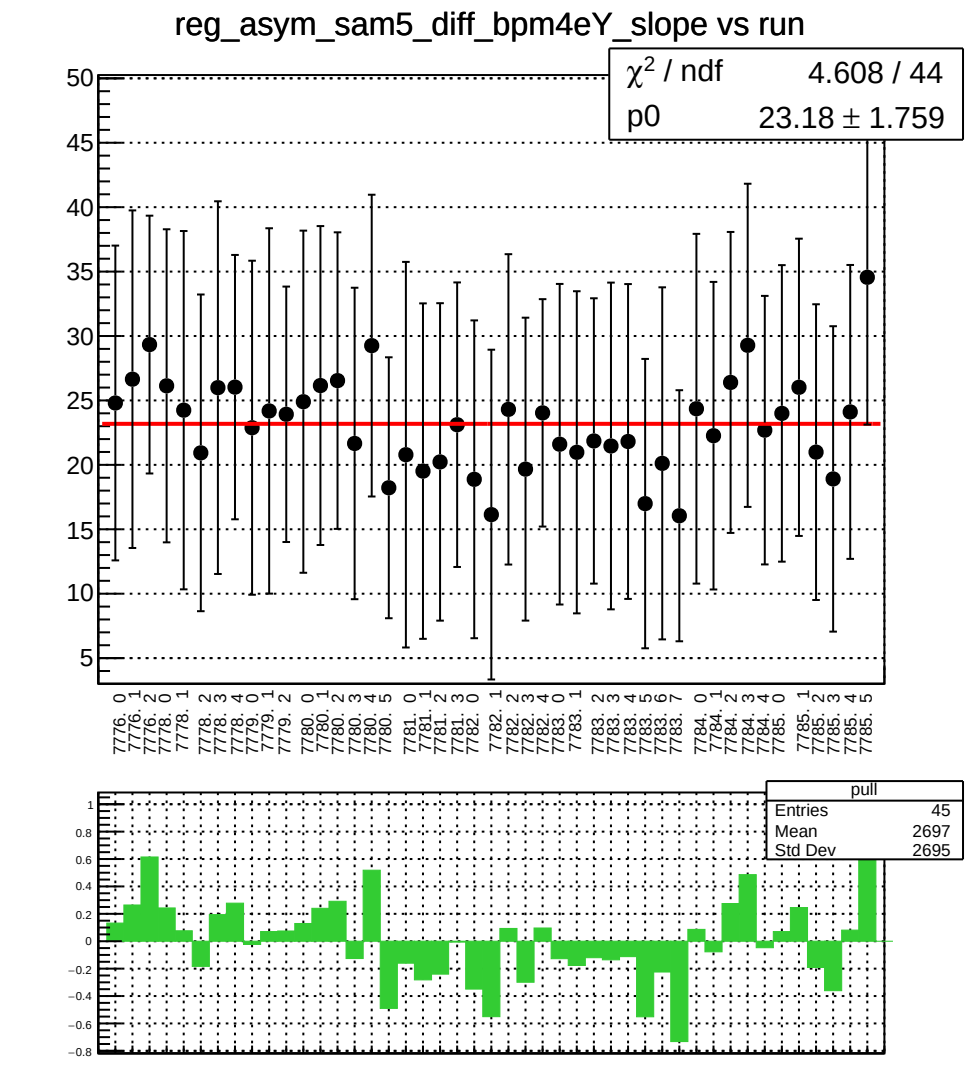

pull1D
Entries 45
Mean 0.002155
Std Dev 0.2865

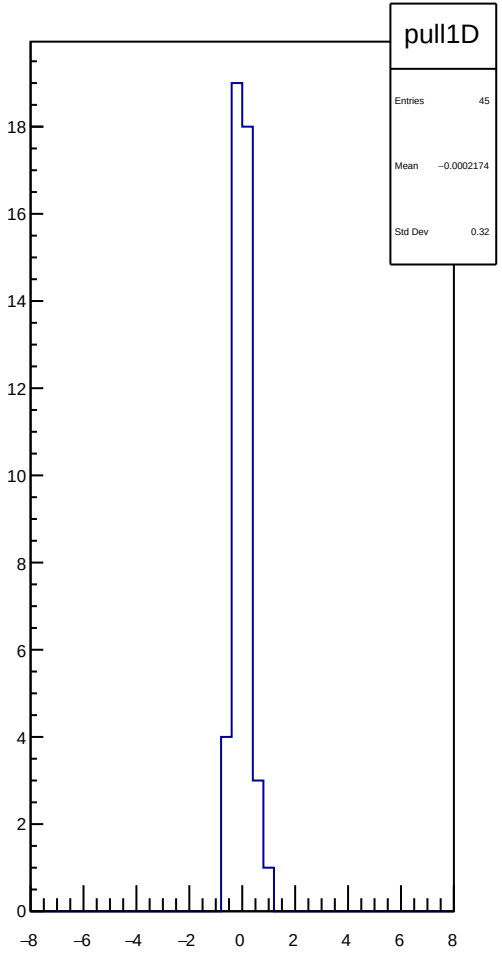

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 5.535 / 44
p0 116.8 ± 1.558
pull
Entries 45
Mean 46.87
Std Dev 66.65

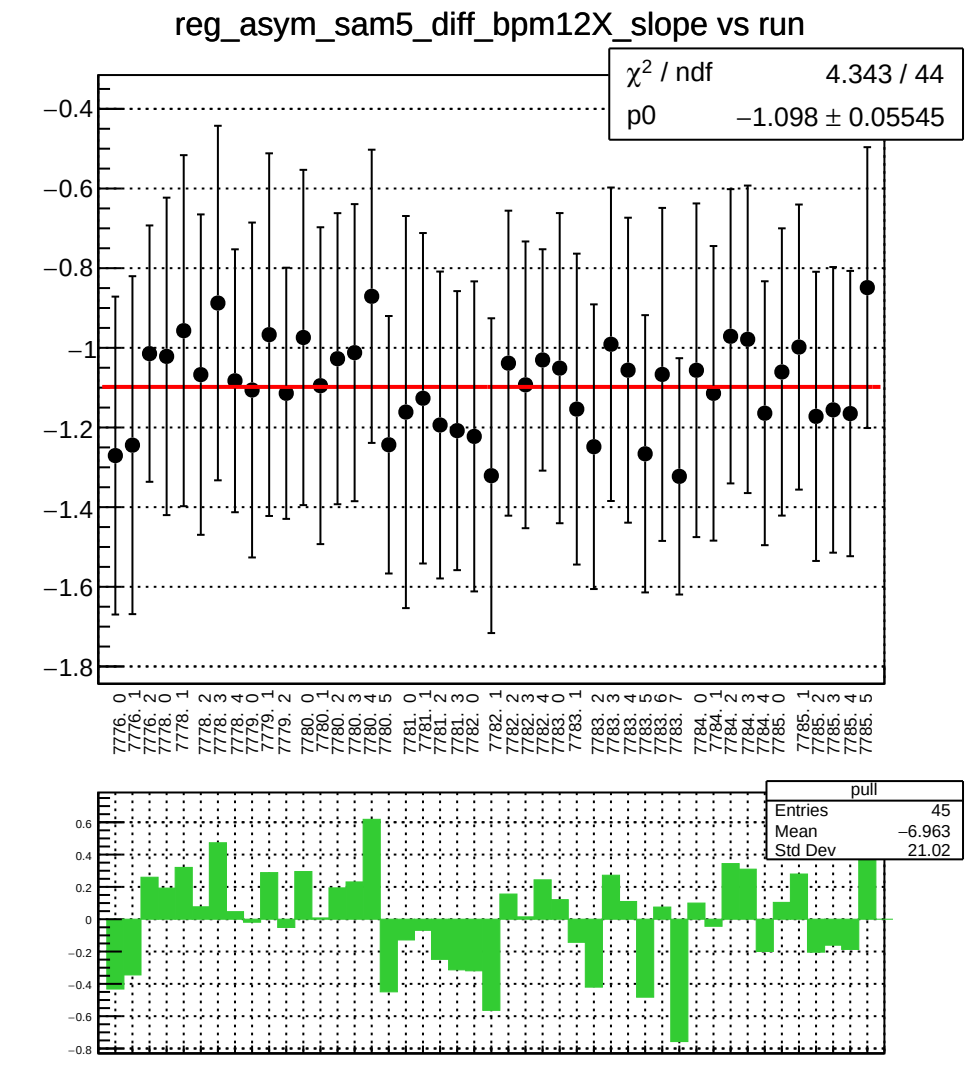

pull1D
Entries 45
Mean 0.005227
Std Dev 0.3507

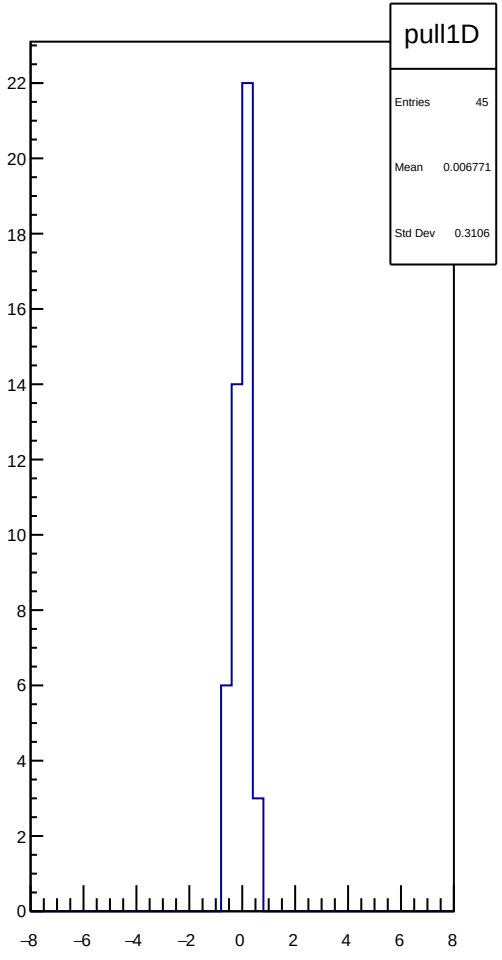

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 3.592 / 44
p0 13.56 ± 1.329
pull
Entries 45
Mean 176.7
Std Dev 151.3

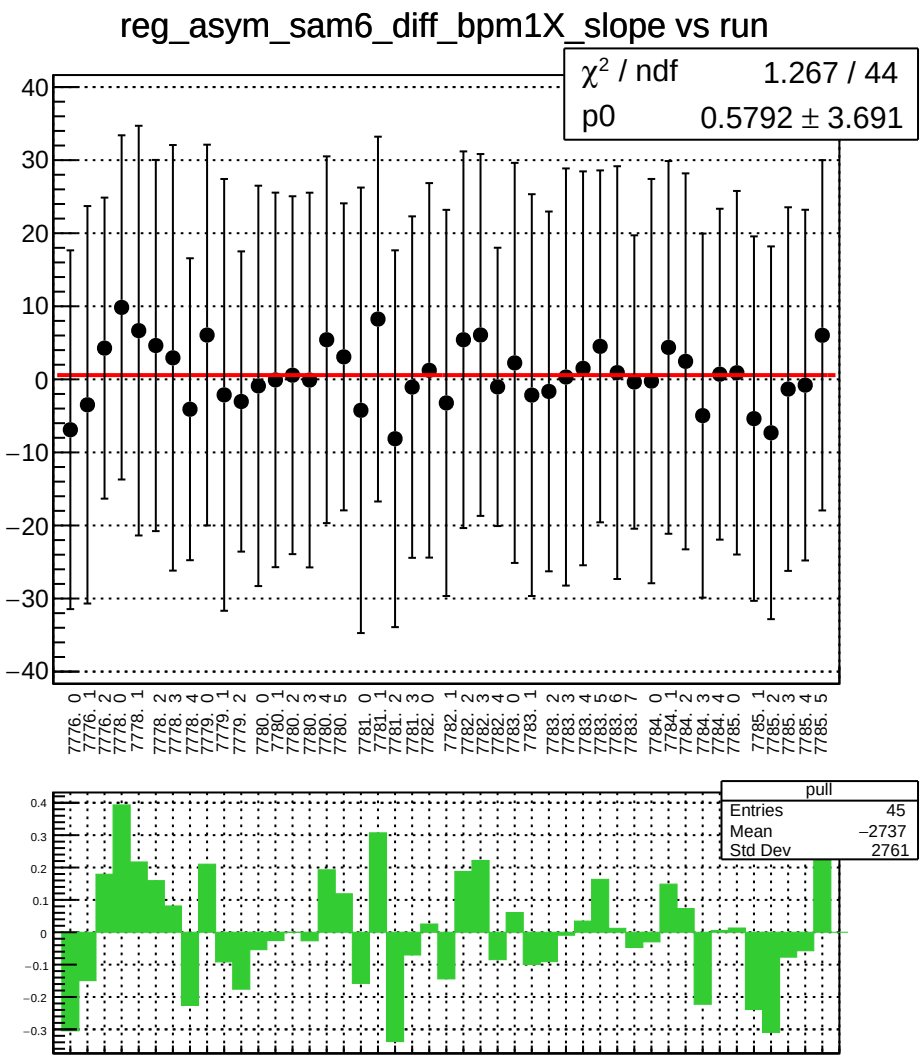

pull1D
Entries 45
Mean −0.001859
Std Dev 0.2825

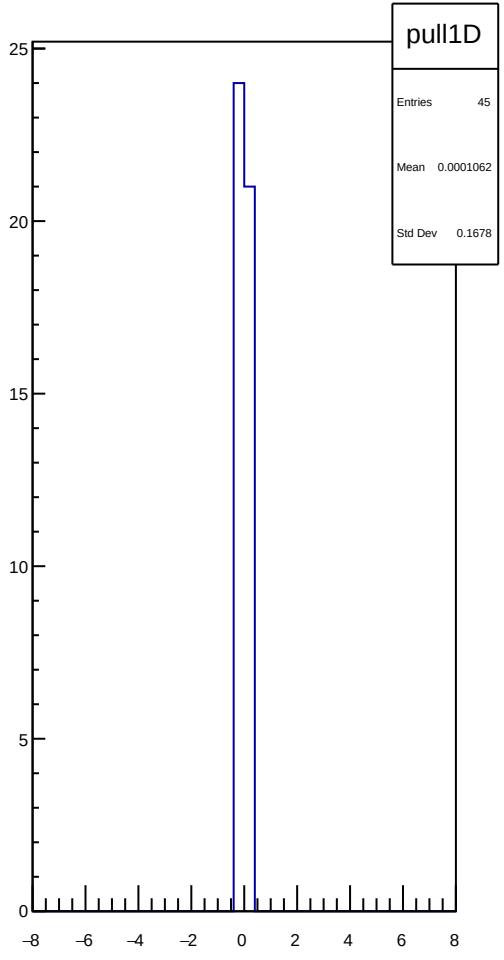

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 4.608 / 44
p0 23.18 ± 1.759
pull
Entries 45
Mean 2697
Std Dev 2695

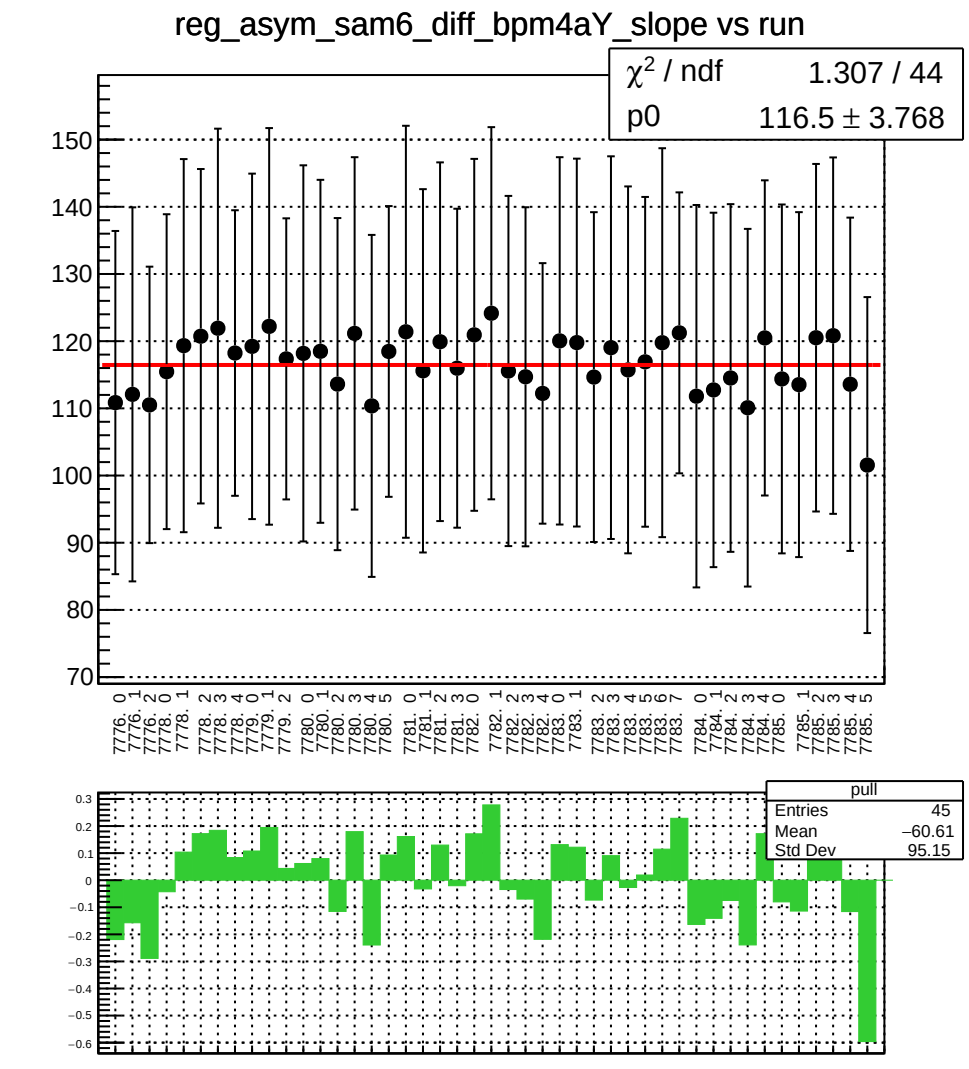

pull1D
Entries 45
Mean −0.0002174
Std Dev 0.32

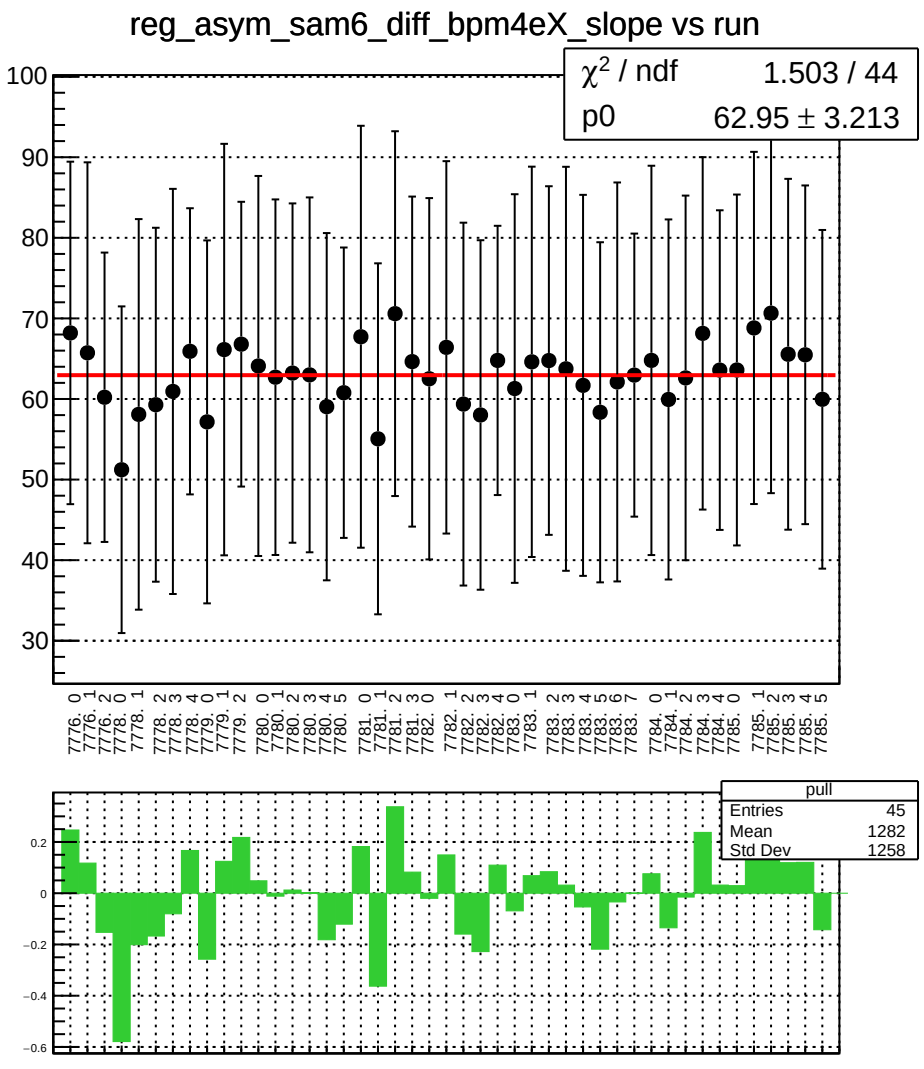

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.343 / 44
p0 −1.098 ± 0.05545
pull
Entries 45
Mean −6.963
Std Dev 21.02

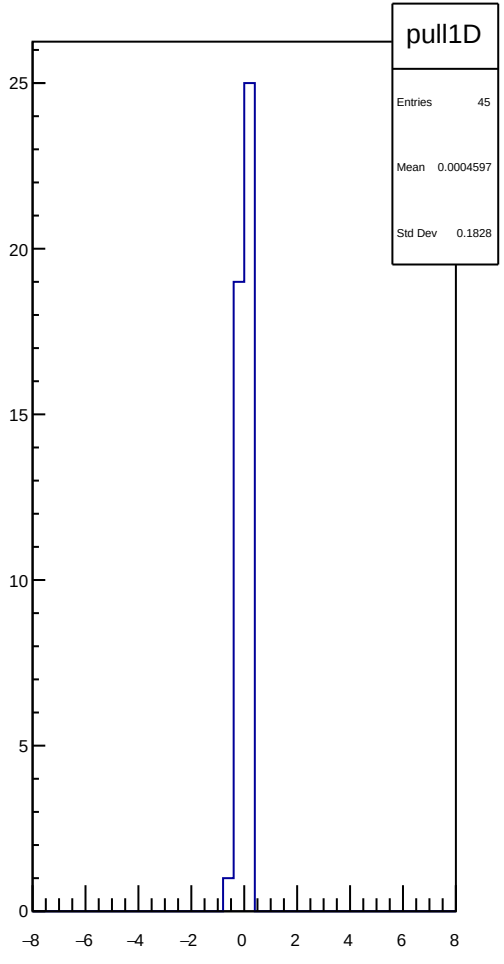

pull1D
Entries 45
Mean 0.006771
Std Dev 0.3106

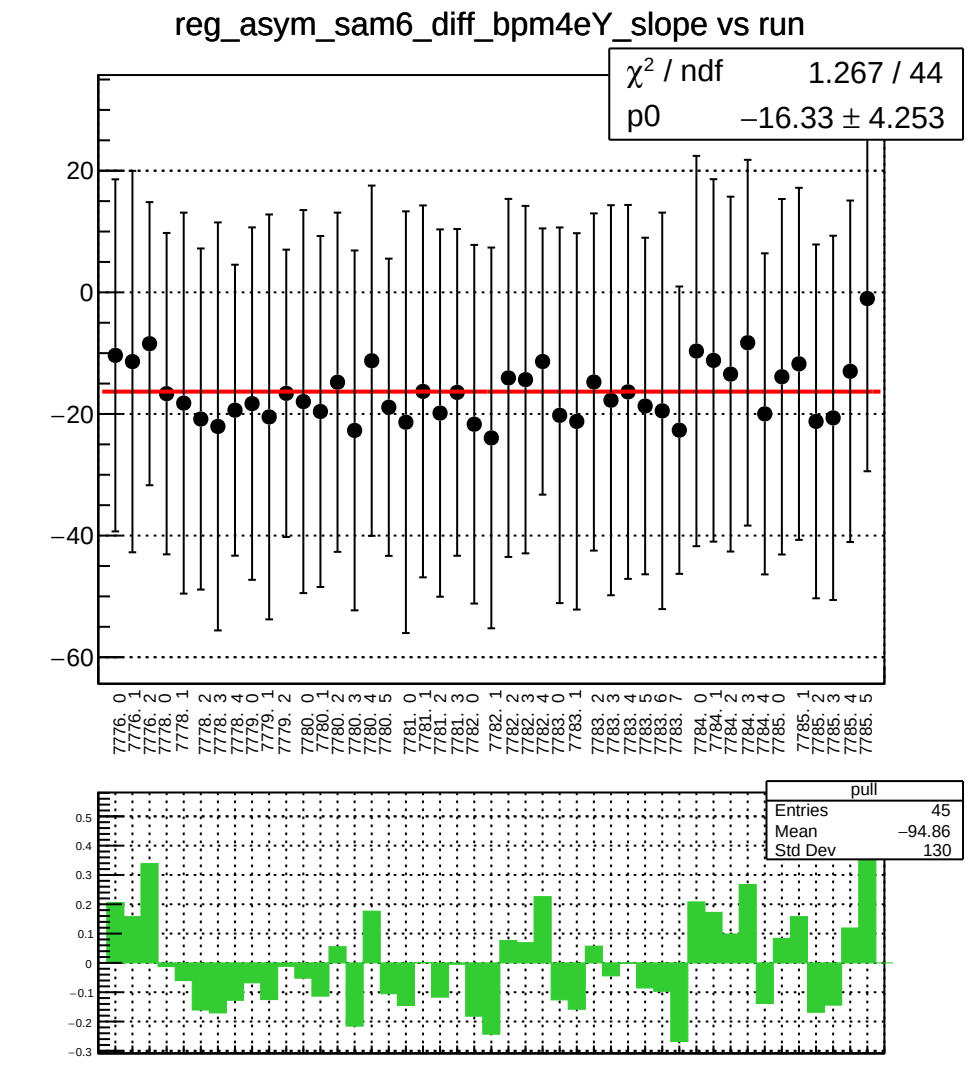

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 1.267 / 44
p0 0.5792 ± 3.691
pull
Entries 45
Mean −2737
Std Dev 2761

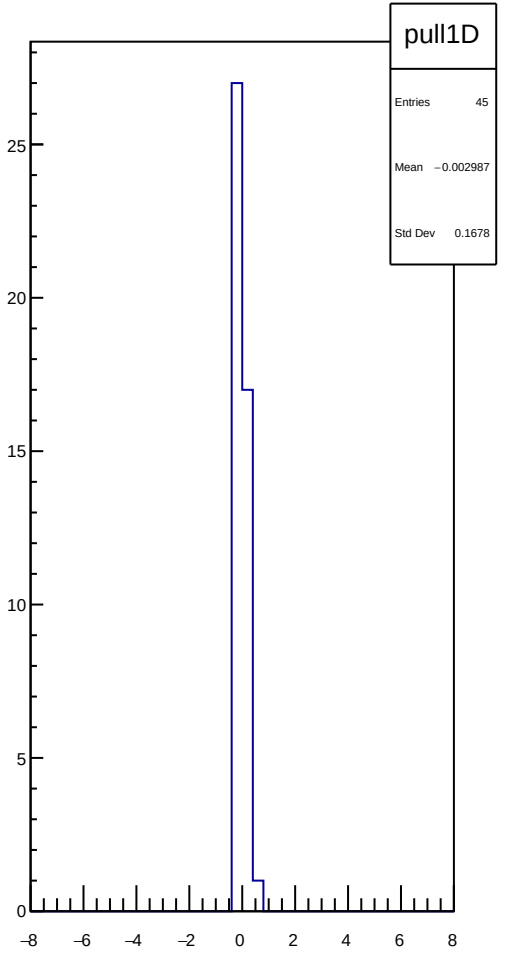

pull1D
Entries 45
Mean 0.0001062
Std Dev 0.1678

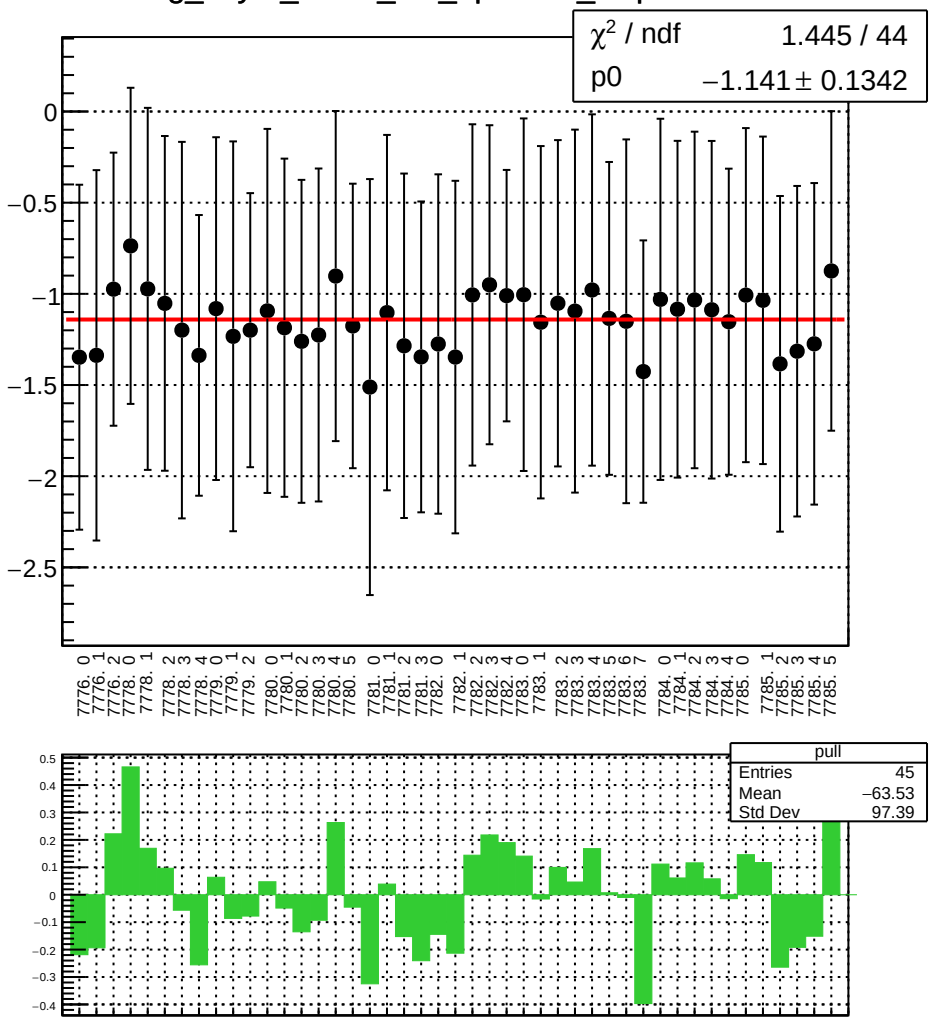

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 1.307 / 44
p0 116.5 ± 3.768
150
140
130
120
110
100
90
80
70
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −60.61
Std Dev 95.15
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull1D
Entries 45
Mean 0.00402
Std Dev 0.1704
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

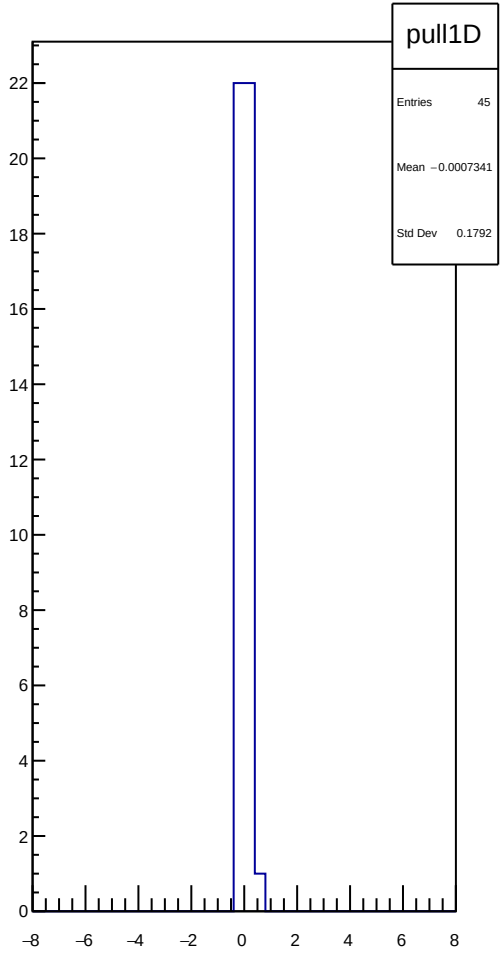

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 1.503 / 44
p0 62.95 ± 3.213
pull
Entries 45
Mean 1282
Std Dev 1258

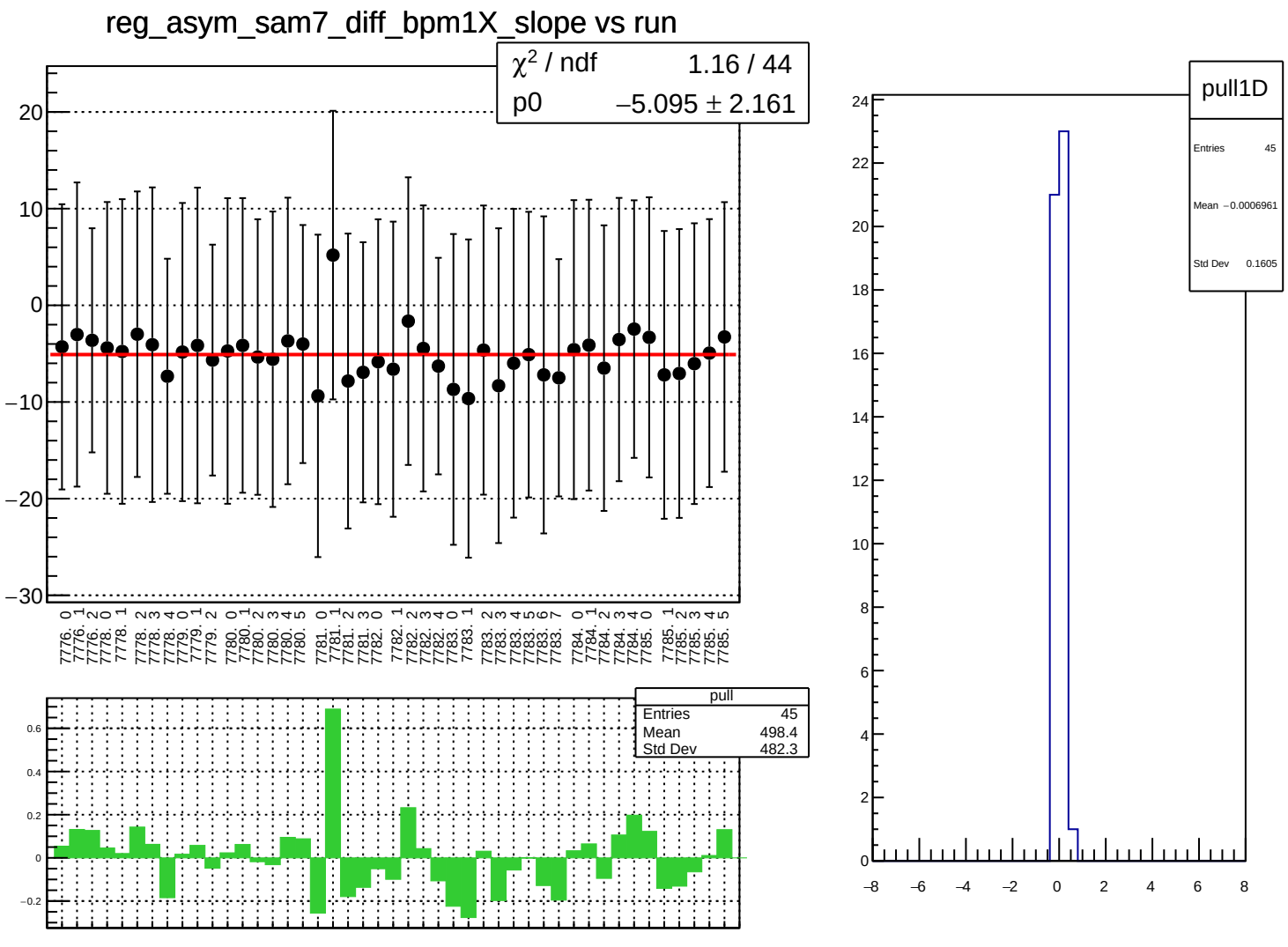

pull1D
Entries 45
Mean 0.0004597
Std Dev 0.1828

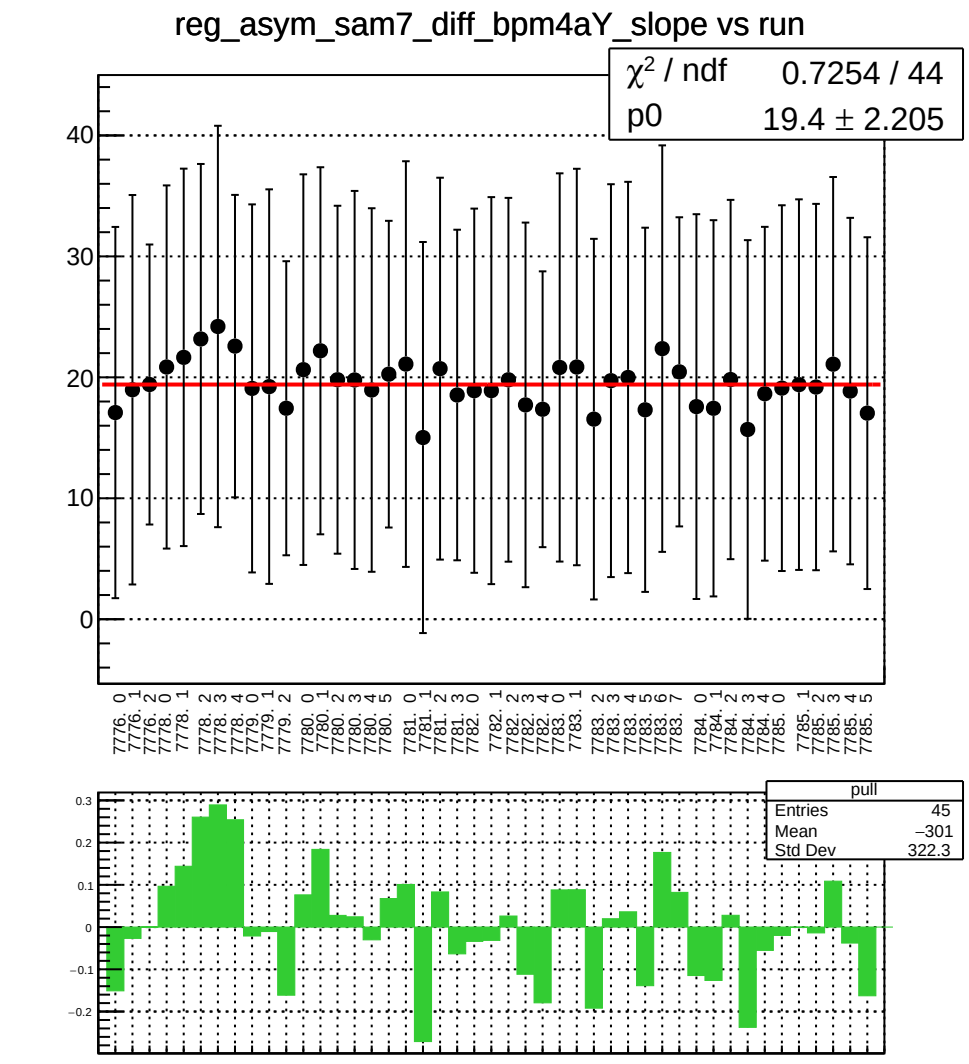

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 1.267 / 44
p0 −16.33 ± 4.253
20
0
−20
−40
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −94.86
Std Dev 130
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

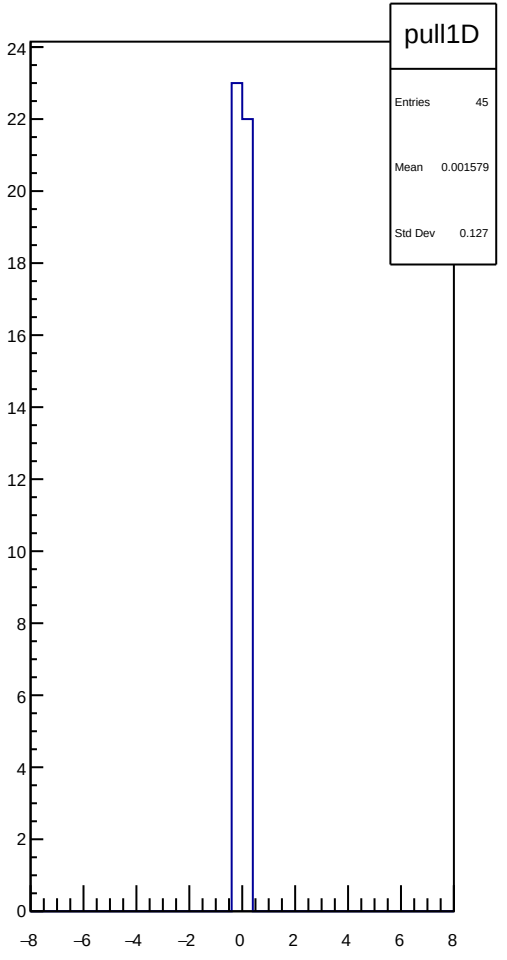

pull1D
Entries 45
Mean −0.002987
Std Dev 0.1678
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

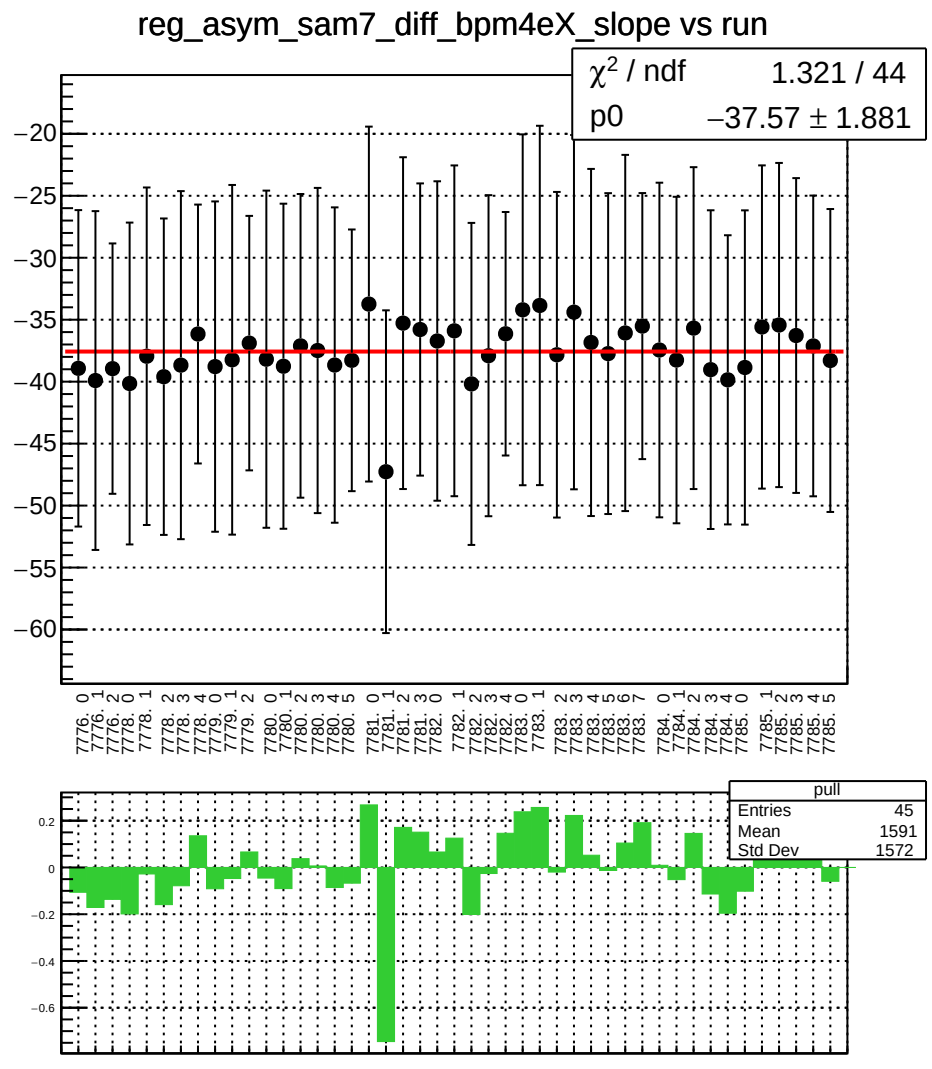

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 1.445 / 44
p0 −1.141 ± 0.1342
pull
Entries 45
Mean −63.53
Std Dev 97.39

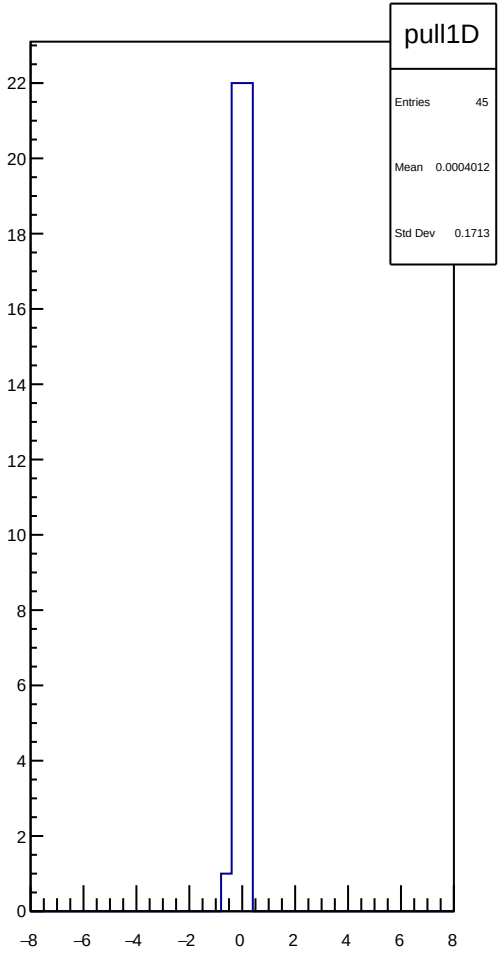

pull1D
Entries 45
Mean −0.0007341
Std Dev 0.1792

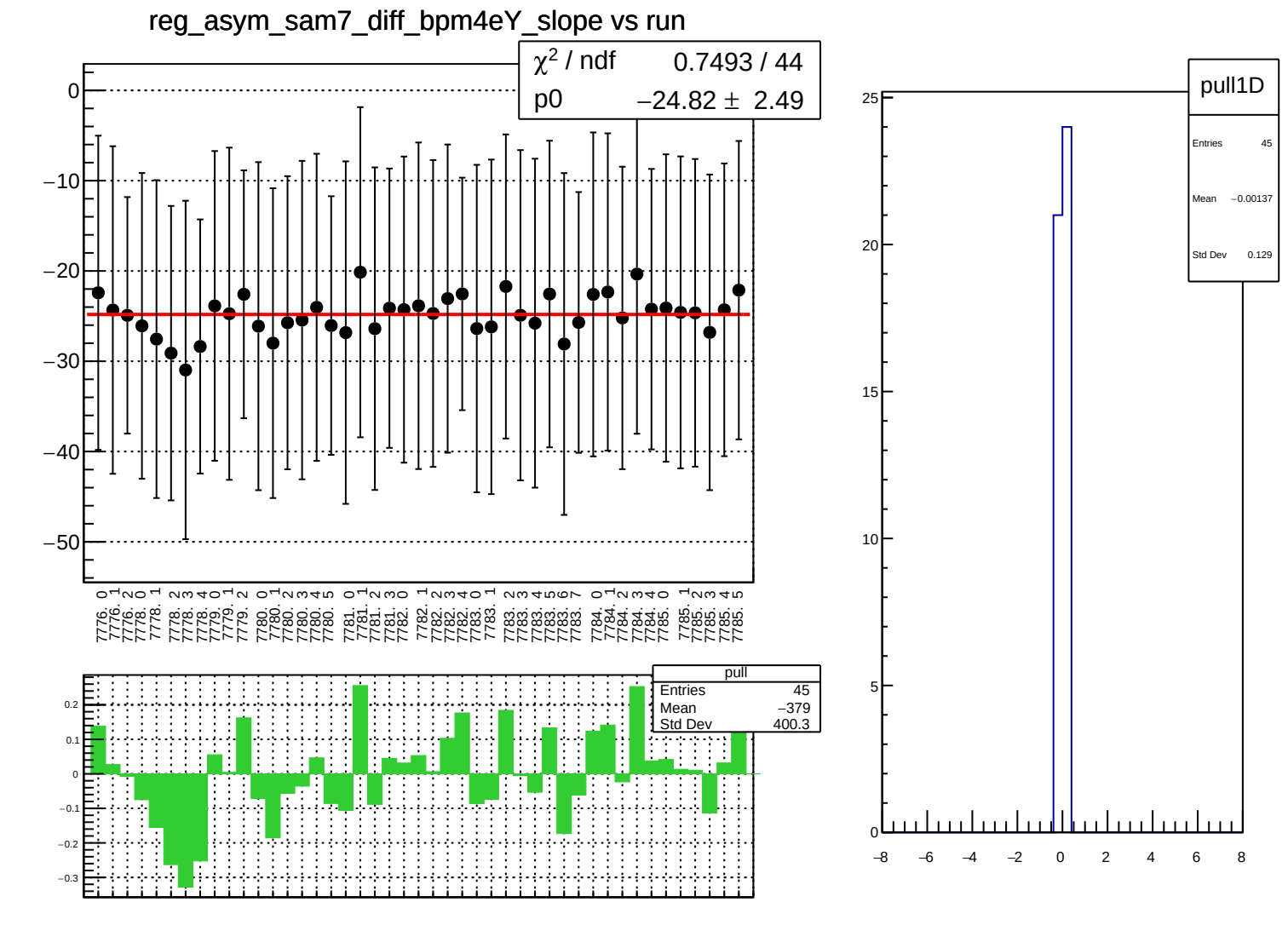

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1.16 / 44
p0 −5.095 ± 2.161
pull
Entries 45
Mean 498.4
Std Dev 482.3
pull1D
Entries 45
Mean −0.0006961
Std Dev 0.1605

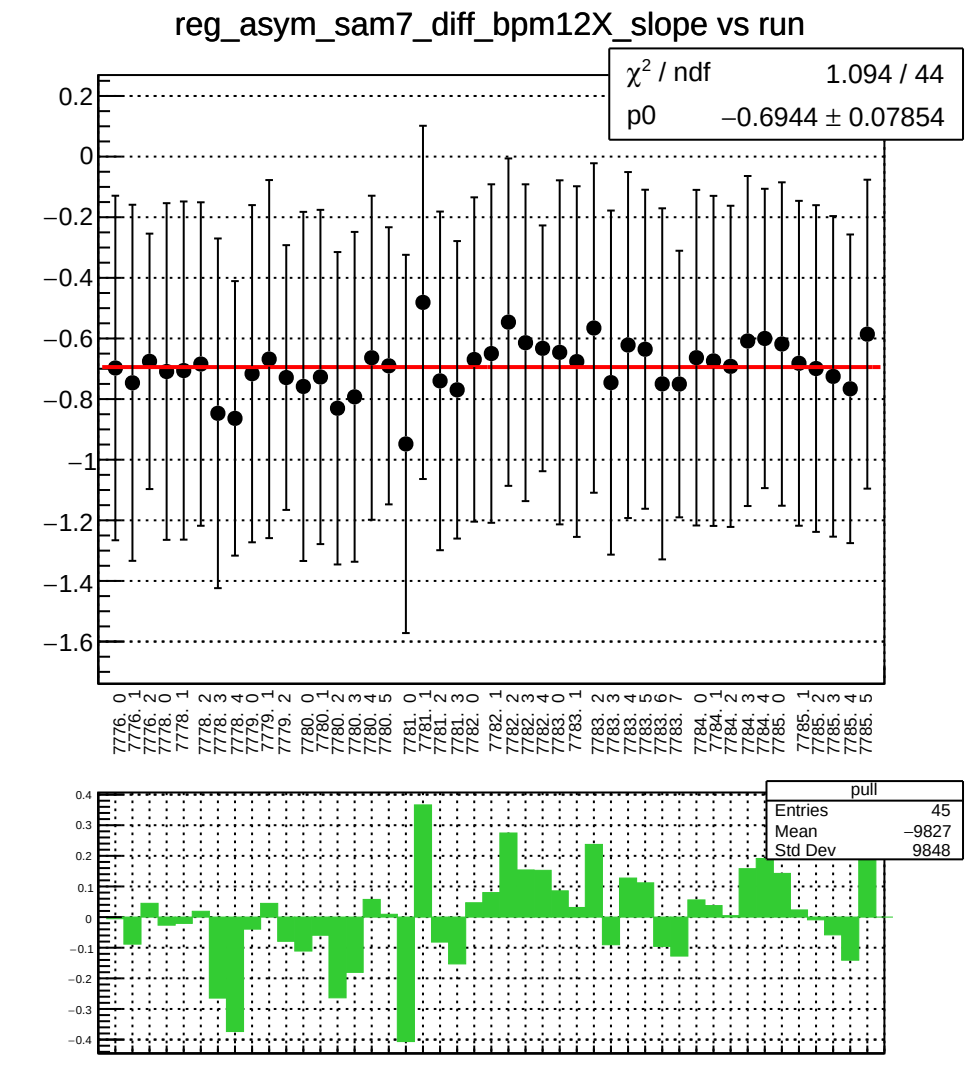

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 0.7254 / 44
p0 19.4 ± 2.205
40
30
20
10
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −301
Std Dev 322.3
0.3
0.2
0.1
0
−0.1
−0.2

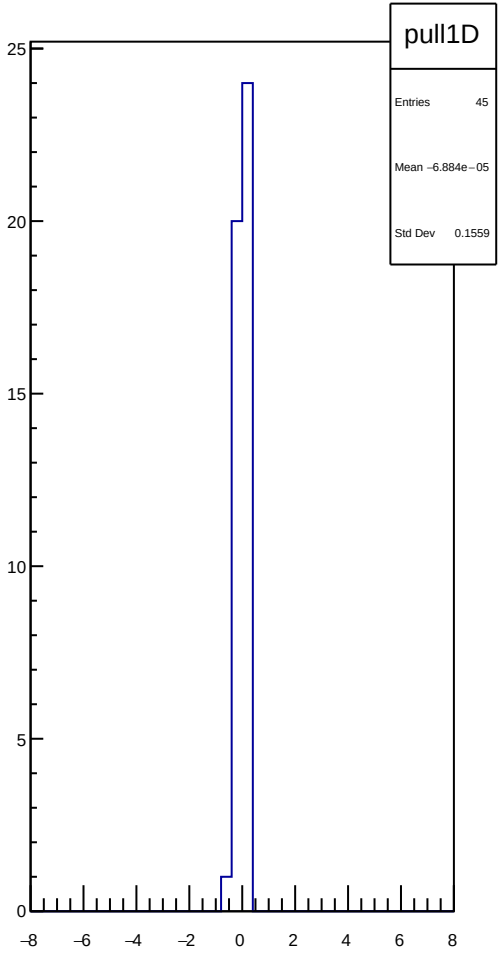

pull1D
Entries 45
Mean 0.001579
Std Dev 0.127
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

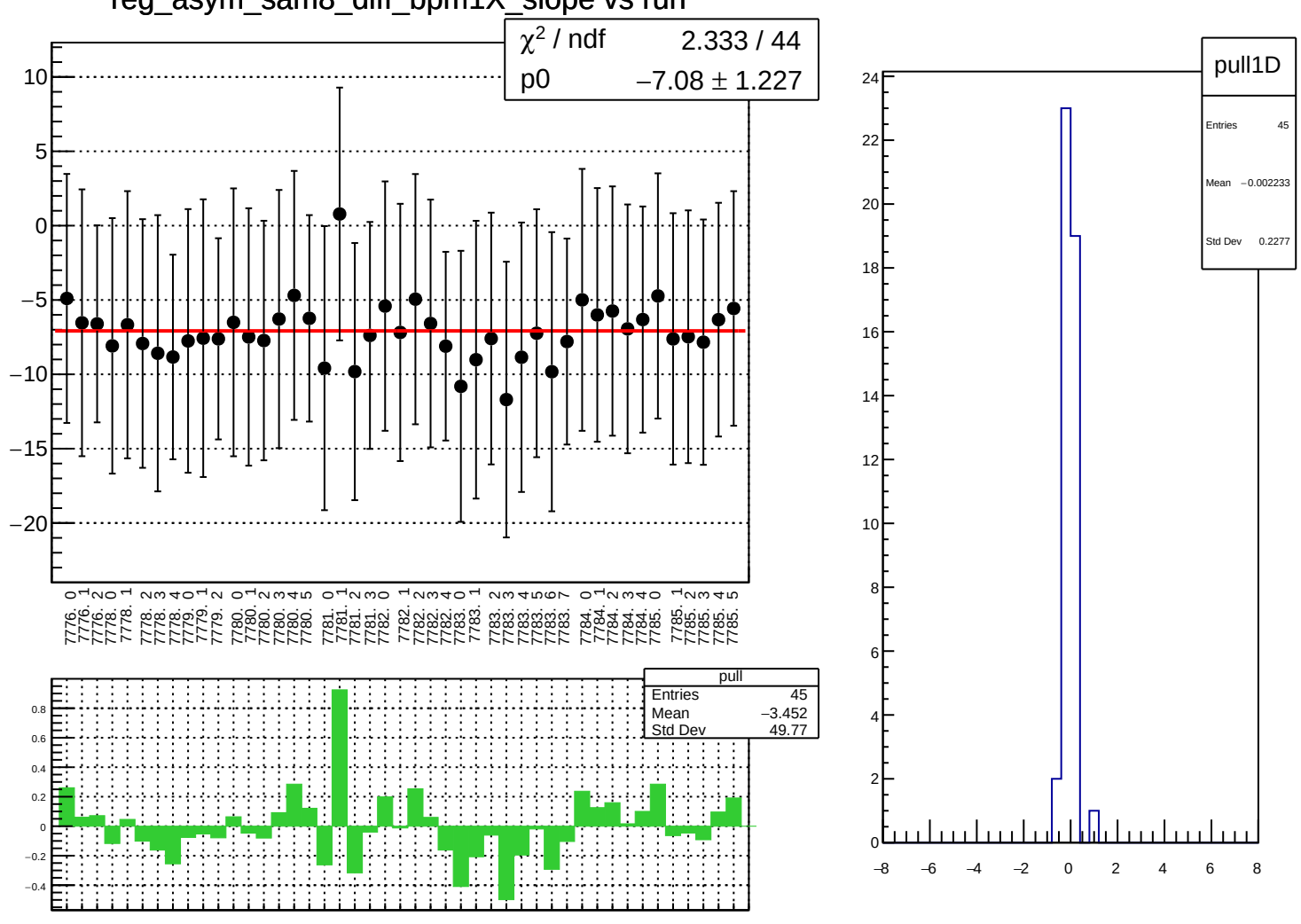

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 1.321 / 44
p0 −37.57 ± 1.881
pull
Entries 45
Mean 1591
Std Dev 1572

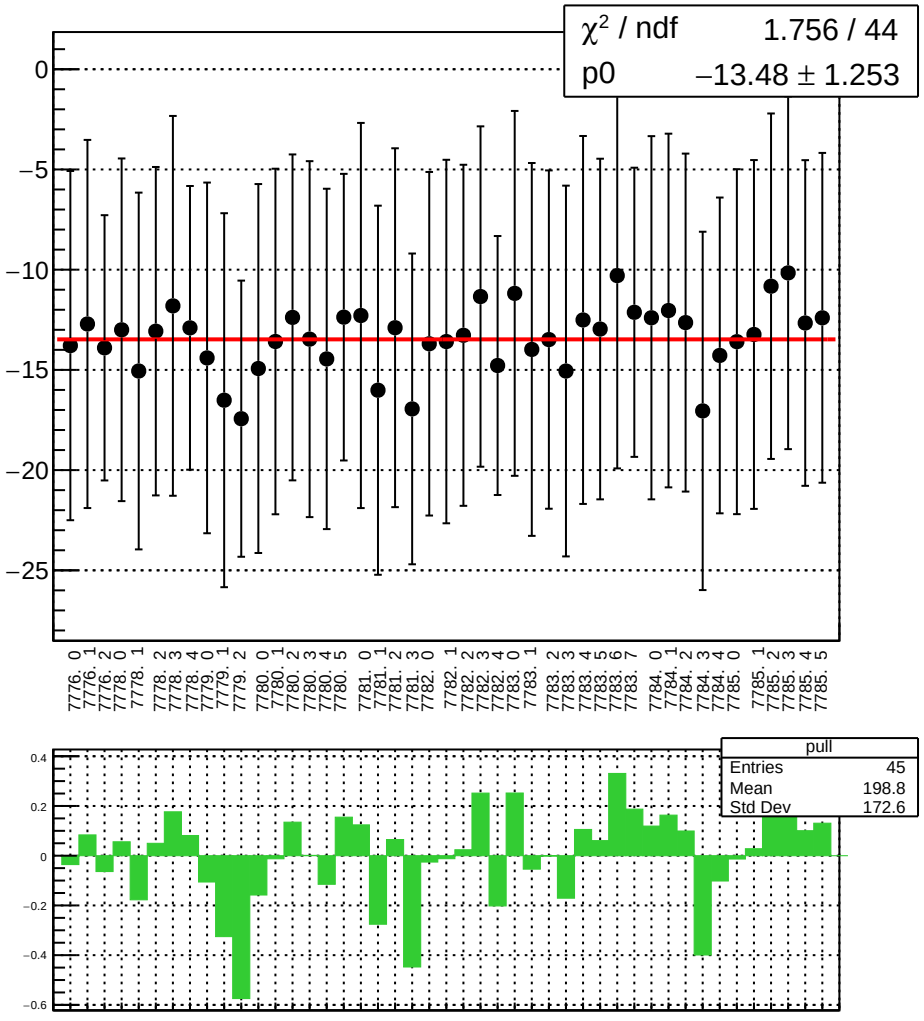

pull1D
Entries 45
Mean 0.0004012
Std Dev 0.1713

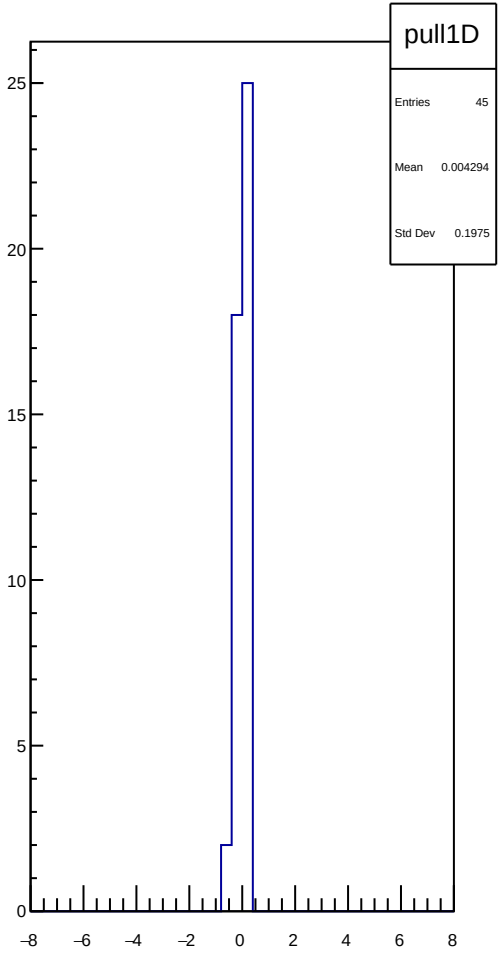

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 0.7493 / 44
p0 −24.82 ± 2.49
pull
Entries 45
Mean −379
Std Dev 400.3
pull1D
Entries 45
Mean −0.00137
Std Dev 0.129

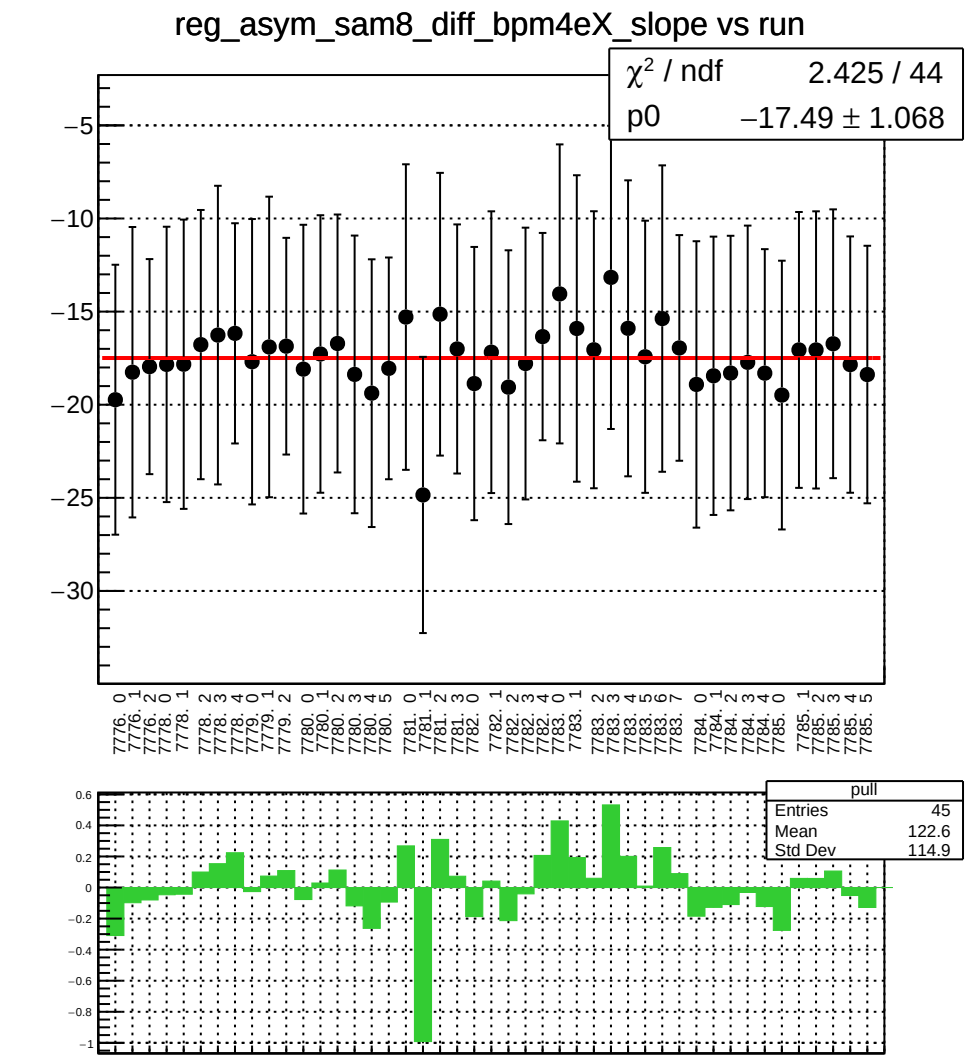

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 1.094 / 44
p0 −0.6944 ± 0.07854
pull
Entries 45
Mean −9827
Std Dev 9848

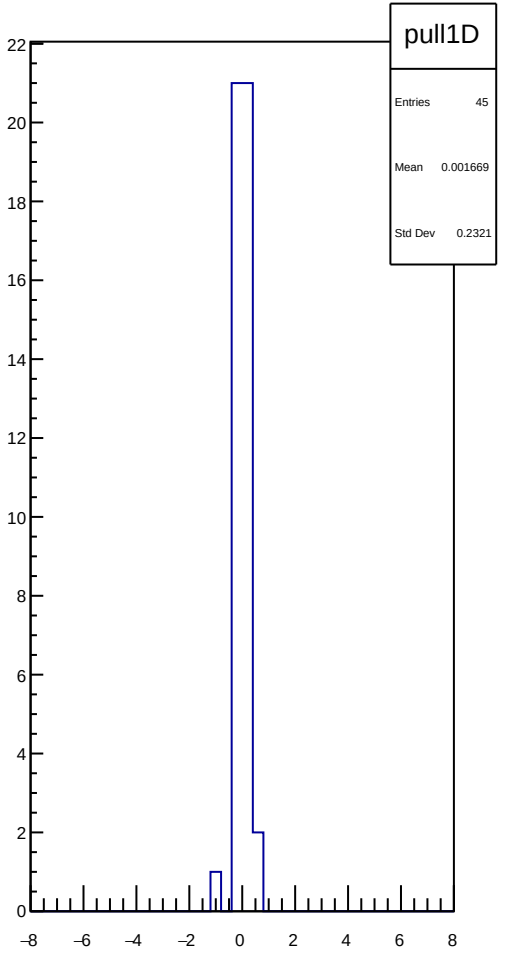

pull1D
Entries 45
Mean −6.884e−05
Std Dev 0.1559

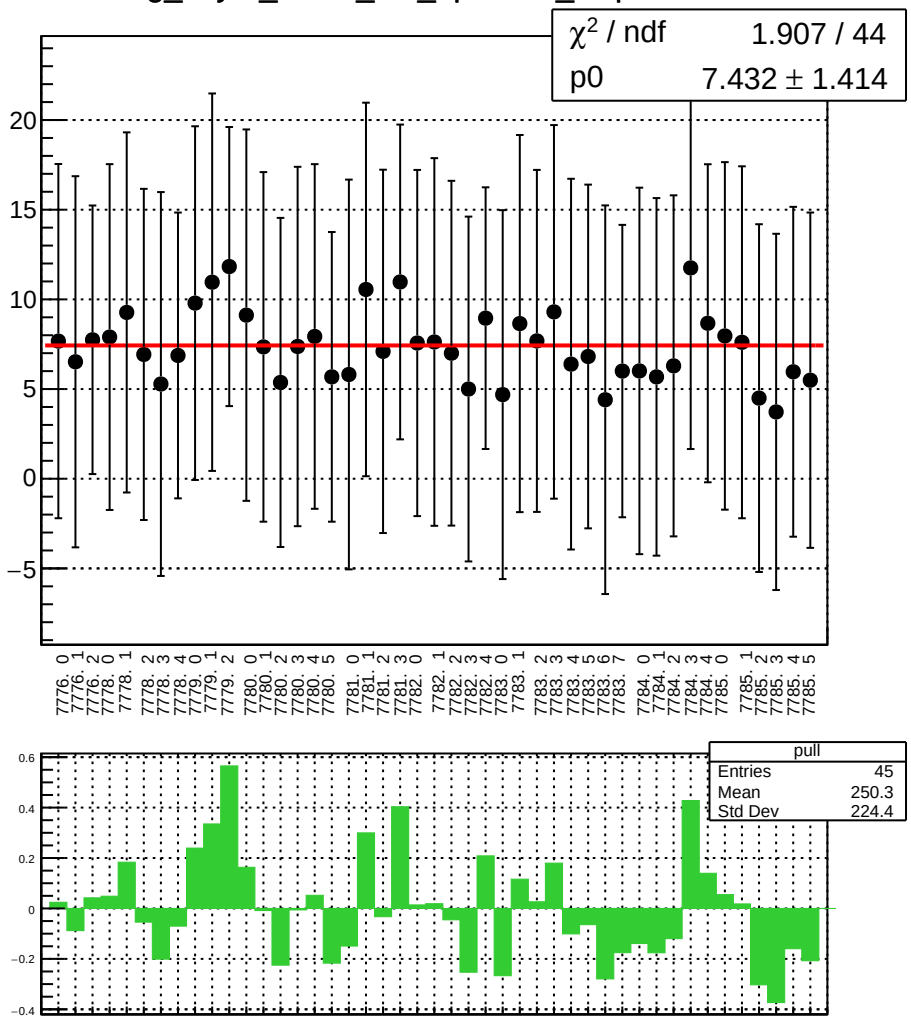

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 2.333 / 44
p0 −7.08 ± 1.227
pull
Entries 45
Mean −3.452
Std Dev 49.77
pull1D
Entries 45
Mean −0.002233
Std Dev 0.2277

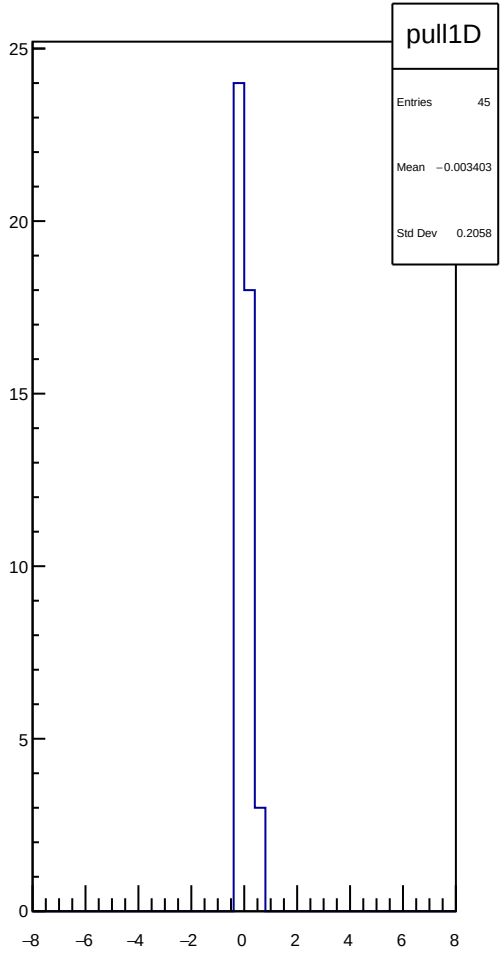

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1.756 / 44
p0 −13.48 ± 1.253
pull
Entries 45
Mean 198.8
Std Dev 172.6

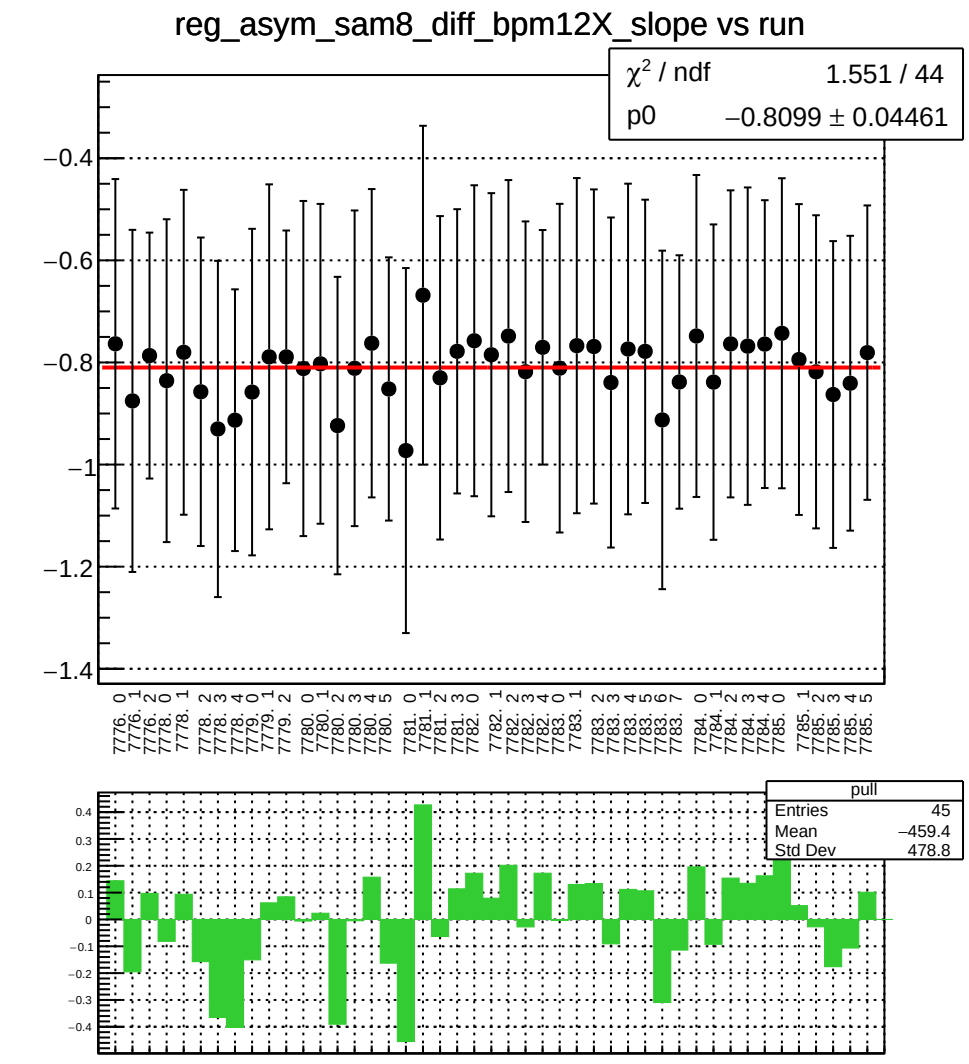

pull1D
Entries 45
Mean 0.004294
Std Dev 0.1975

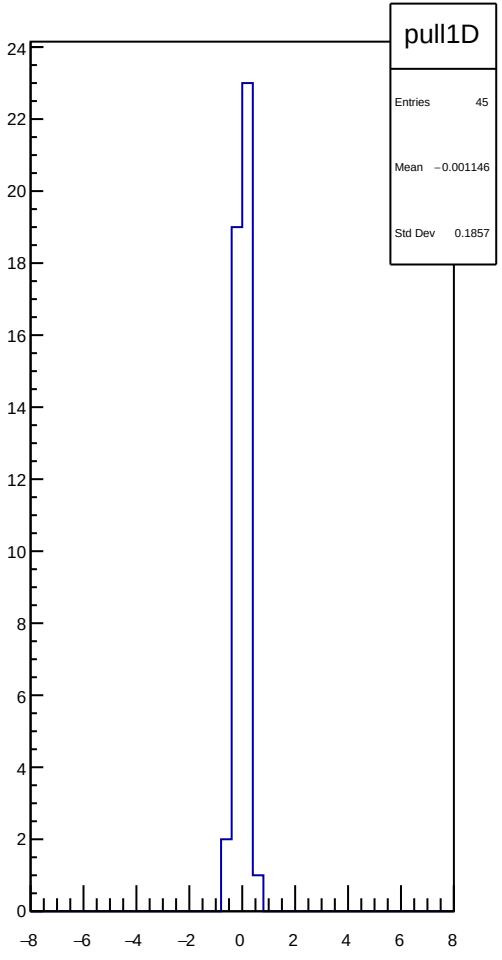

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 2.425 / 44
p0 −17.49 ± 1.068
pull
Entries 45
Mean 122.6
Std Dev 114.9

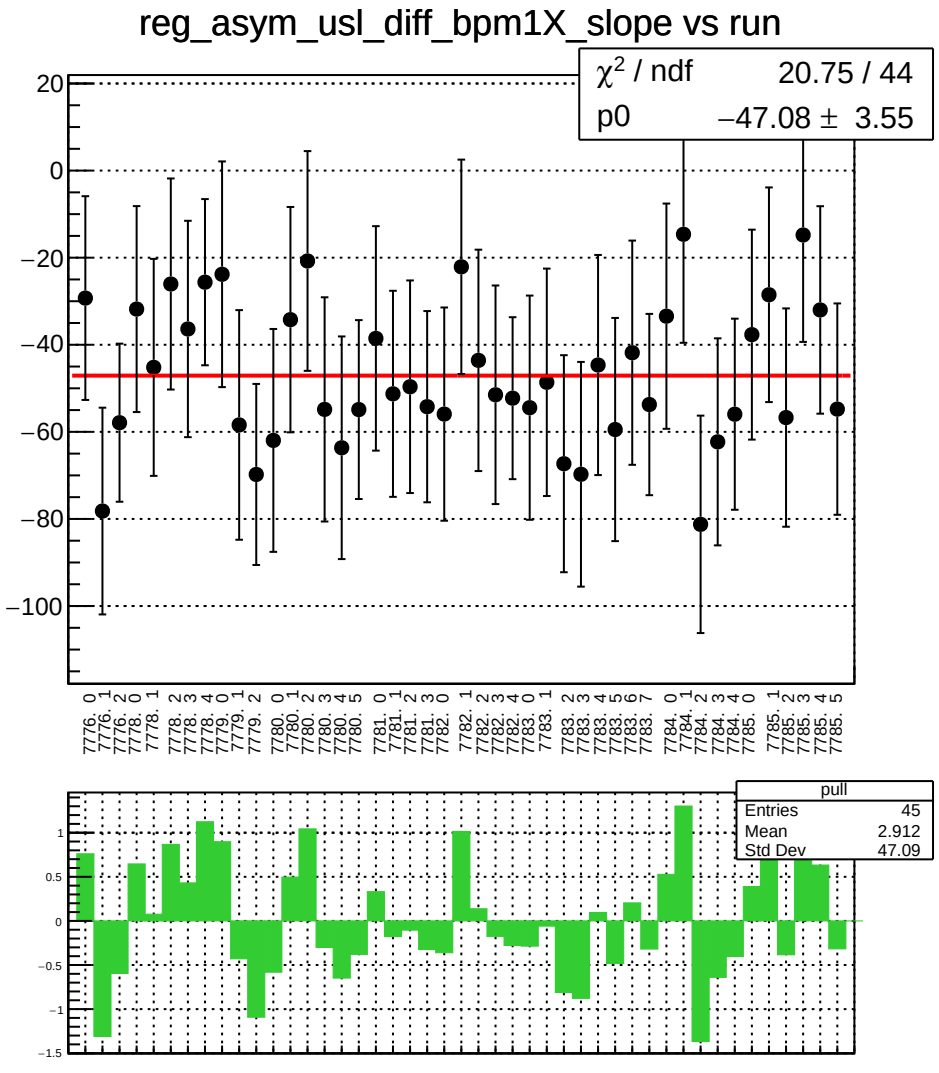

pull1D
Entries 45
Mean 0.001669
Std Dev 0.2321

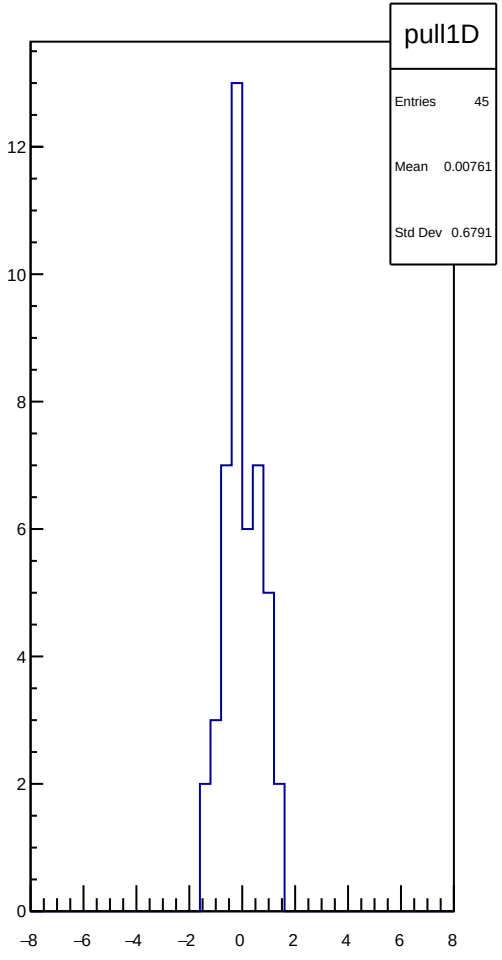

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1.907 / 44
p0 7.432 ± 1.414
pull
Entries 45
Mean 250.3
Std Dev 224.4

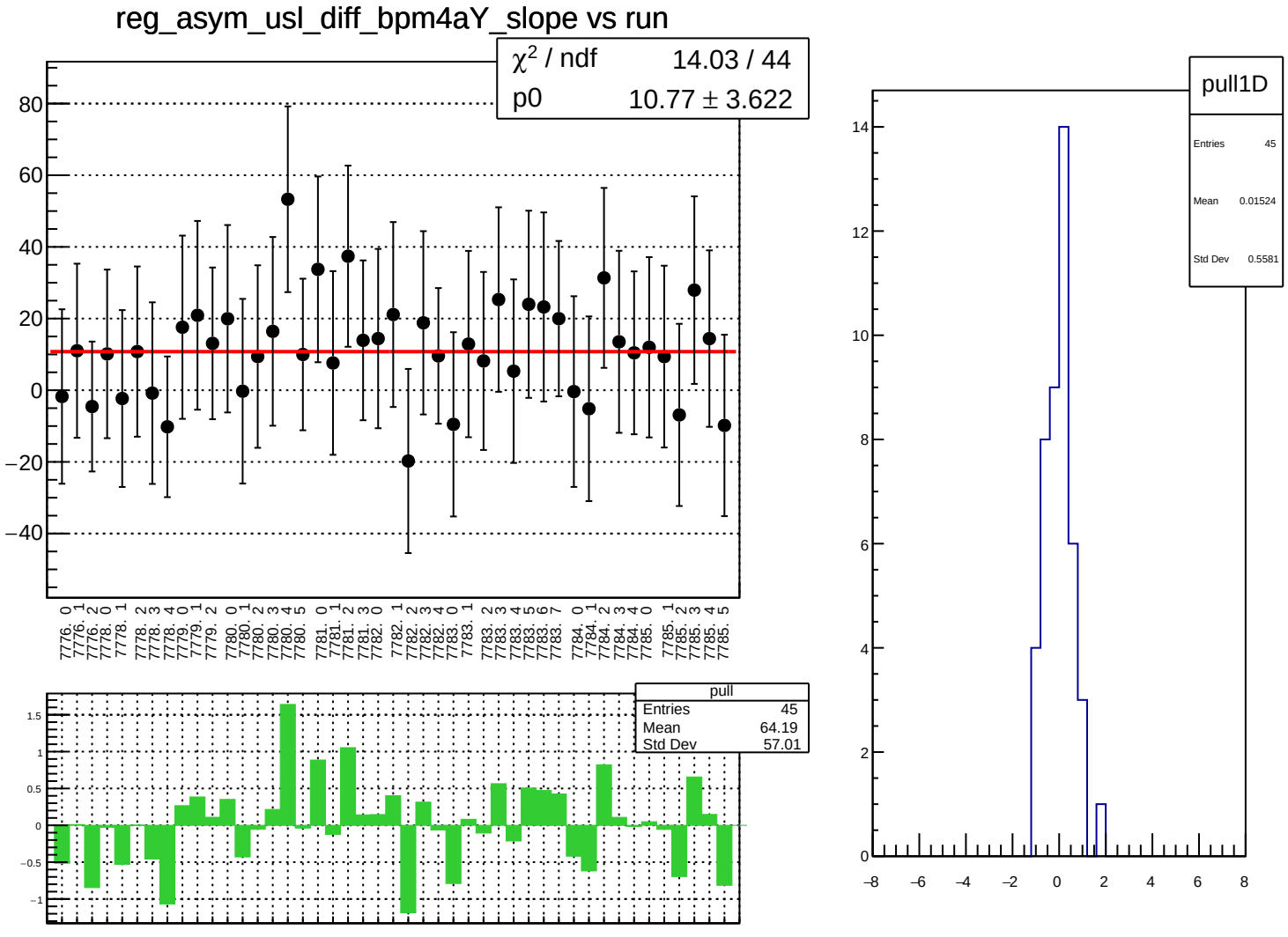

pull1D
Entries 45
Mean −0.003403
Std Dev 0.2058

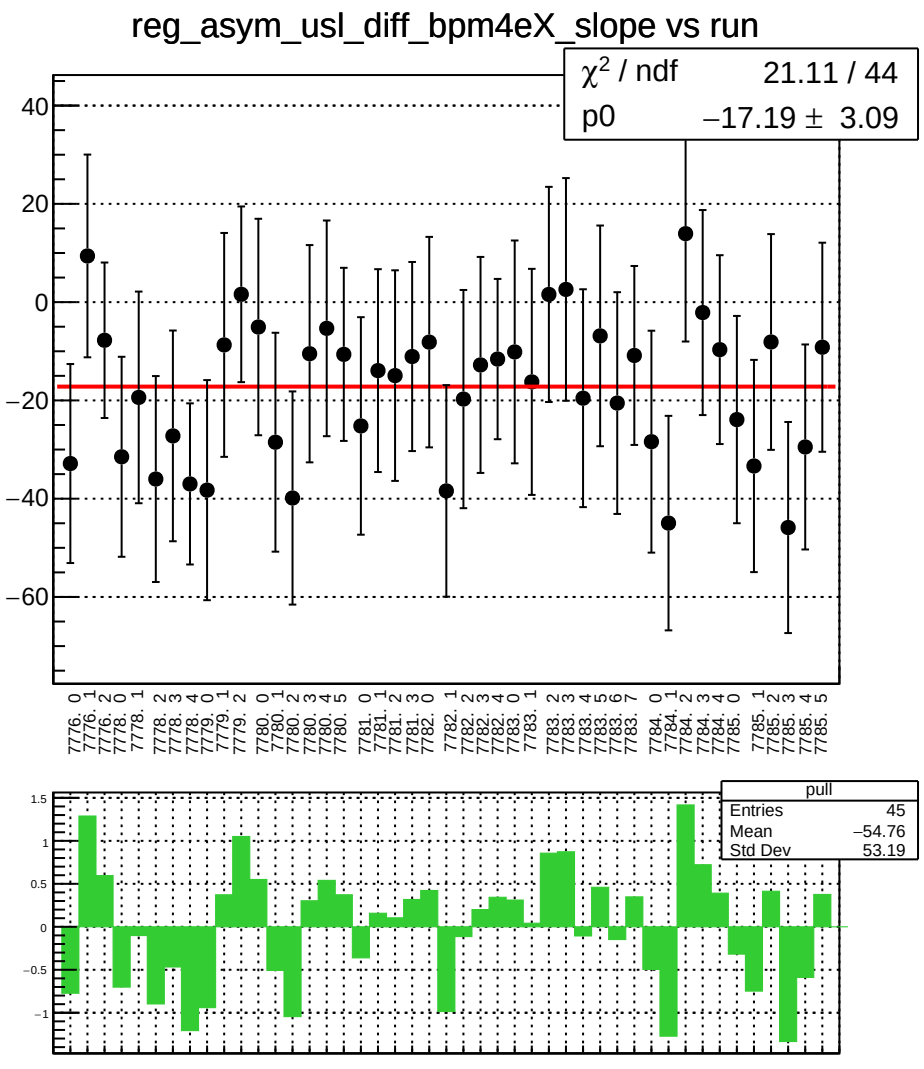

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1.551 / 44
p0 −0.8099 ± 0.04461
pull
Entries 45
Mean −459.4
Std Dev 478.8

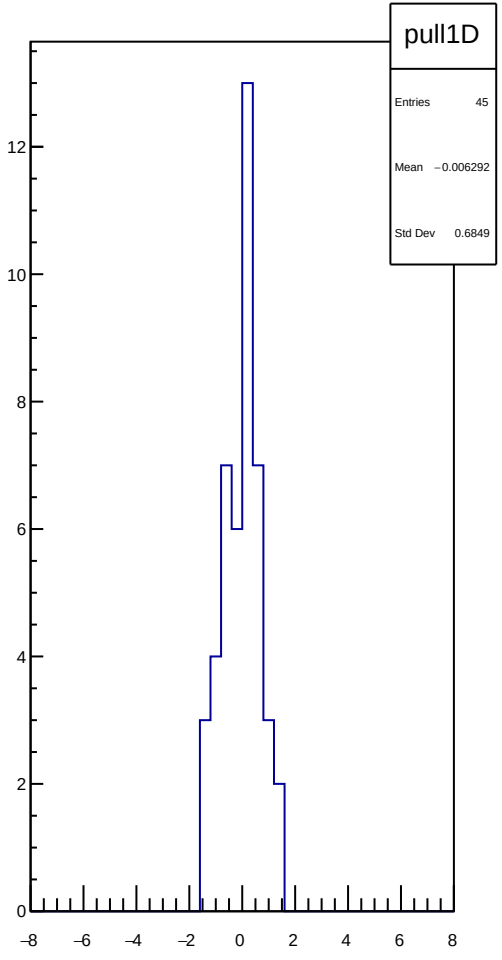

pull1D
Entries 45
Mean −0.001146
Std Dev 0.1857

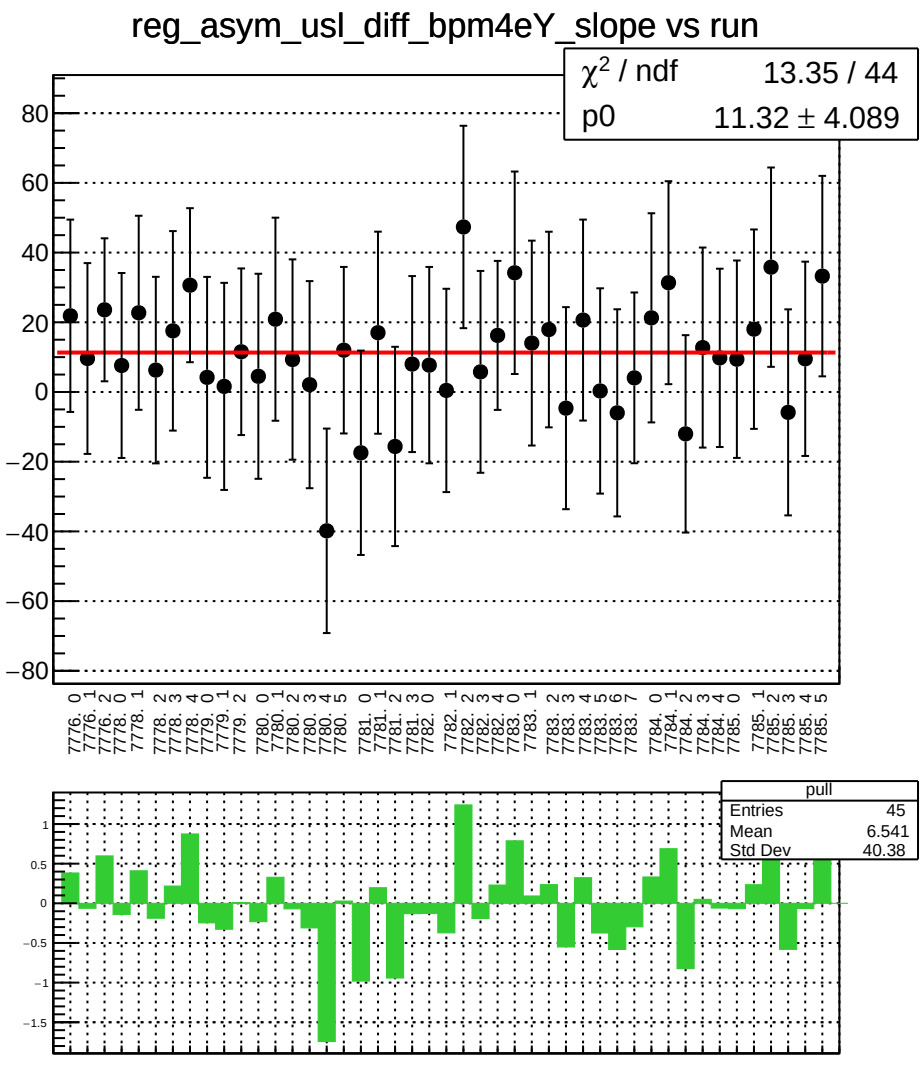

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 20.75 / 44
p0 −47.08 ± 3.55
pull
Entries 45
Mean 2.912
Std Dev 47.09

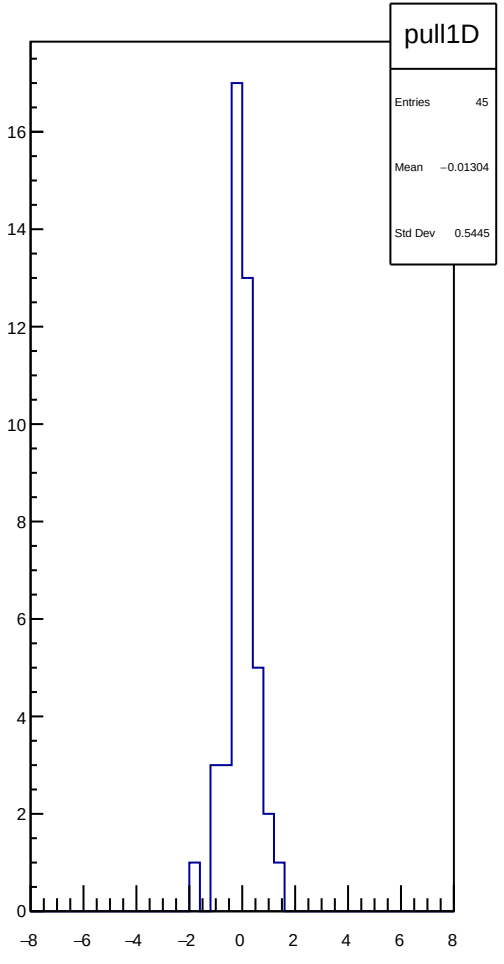

pull1D
Entries 45
Mean 0.00761
Std Dev 0.6791

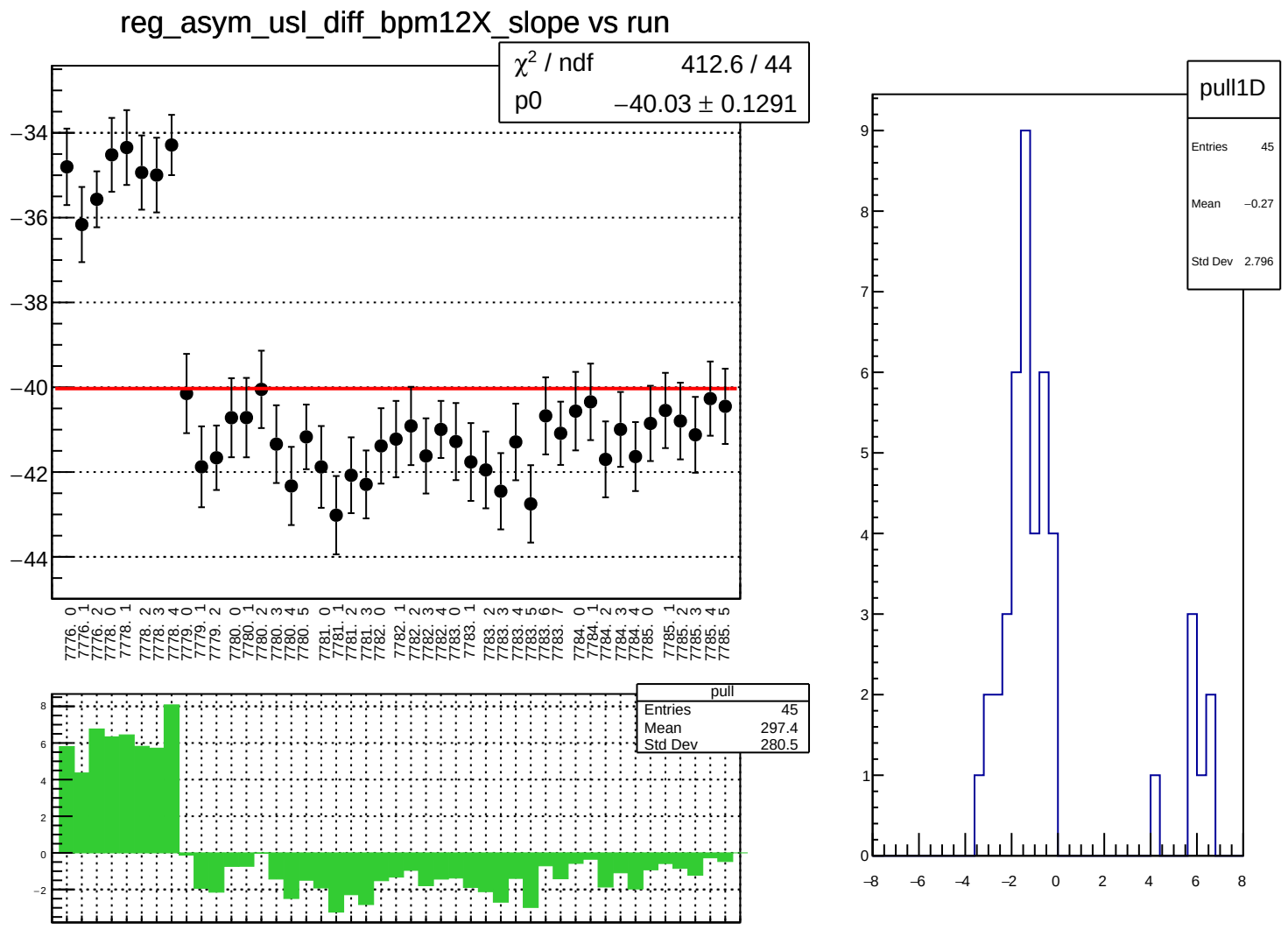

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 14.03 / 44
p0 10.77 ± 3.622
pull
Entries 45
Mean 64.19
Std Dev 57.01
pull1D
Entries 45
Mean 0.01524
Std Dev 0.5581

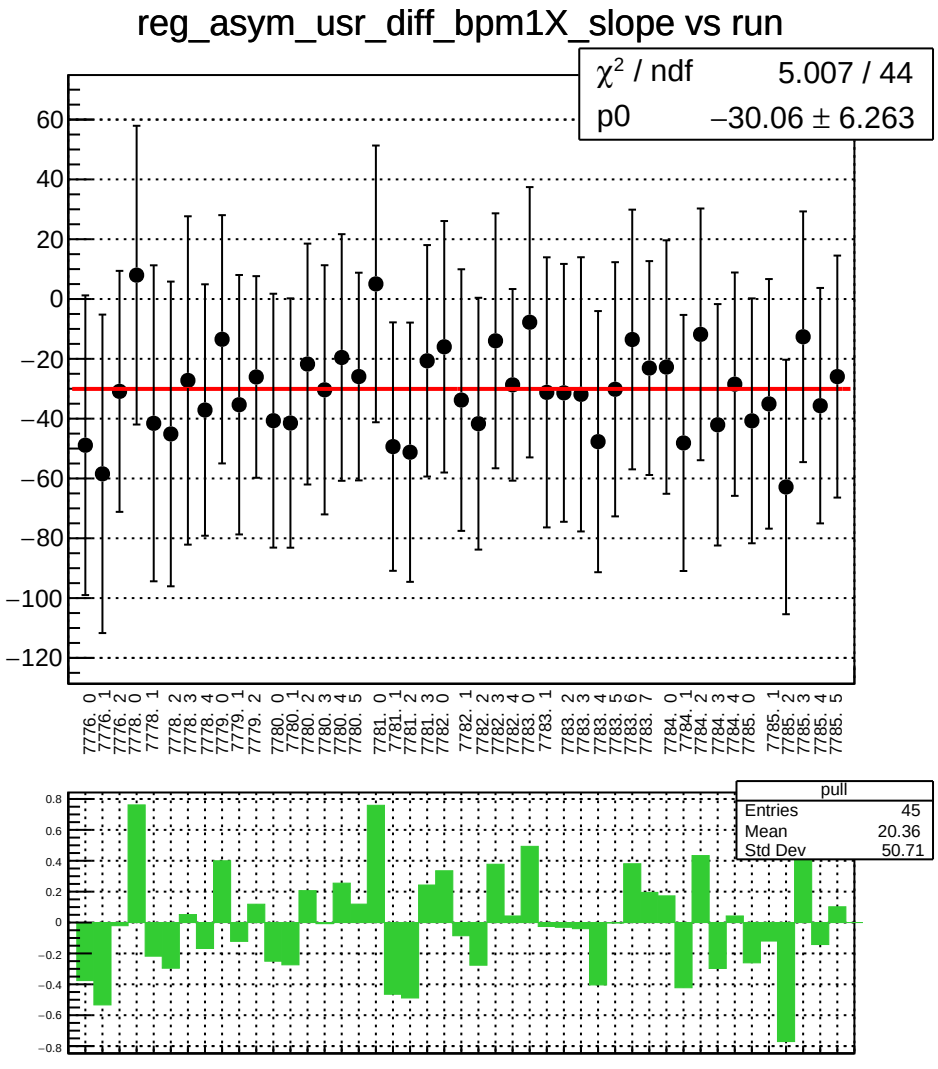

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 21.11 / 44
p0 −17.19 ± 3.09
pull
Entries 45
Mean −54.76
Std Dev 53.19

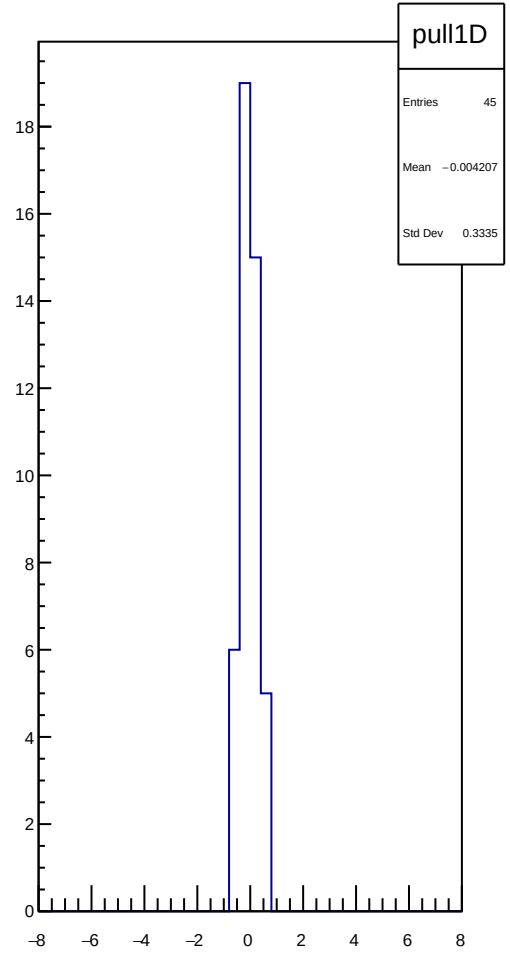

pull1D
Entries 45
Mean −0.006292
Std Dev 0.6849

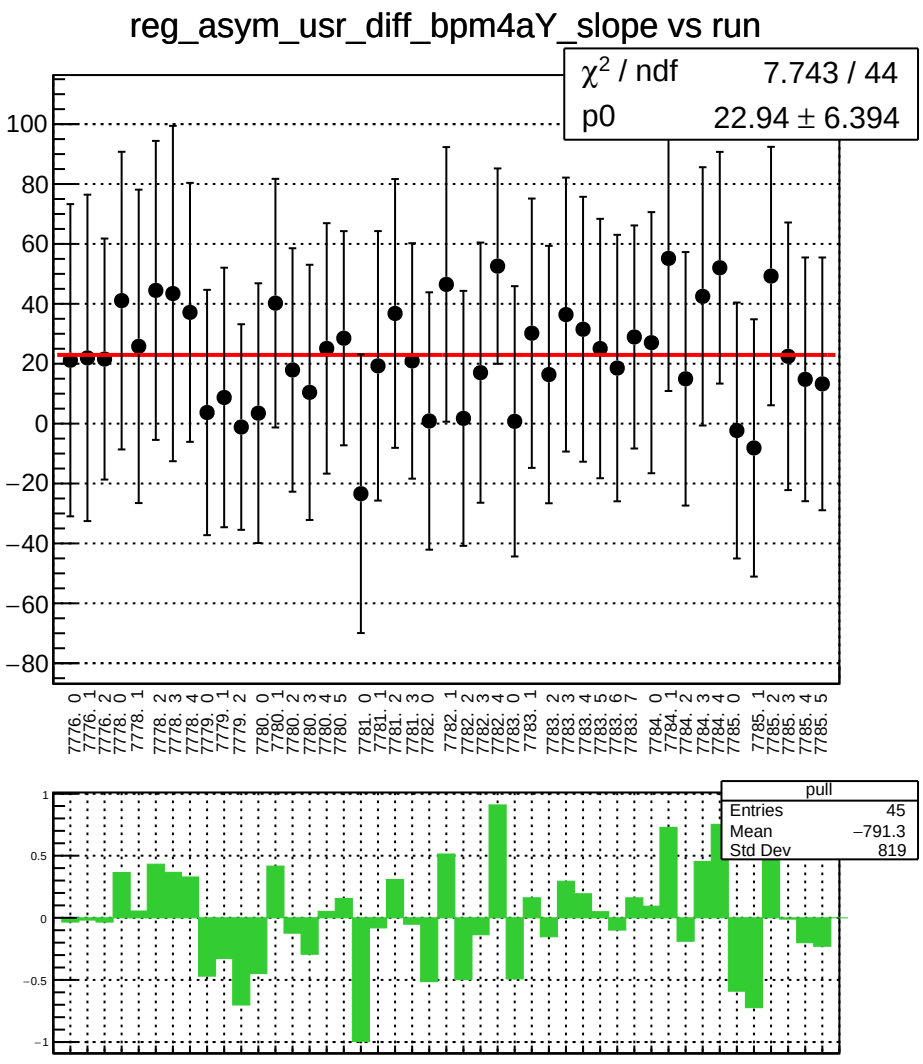

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 13.35 / 44
p0 11.32 ± 4.089
pull
Entries 45
Mean 6.541
Std Dev 40.38

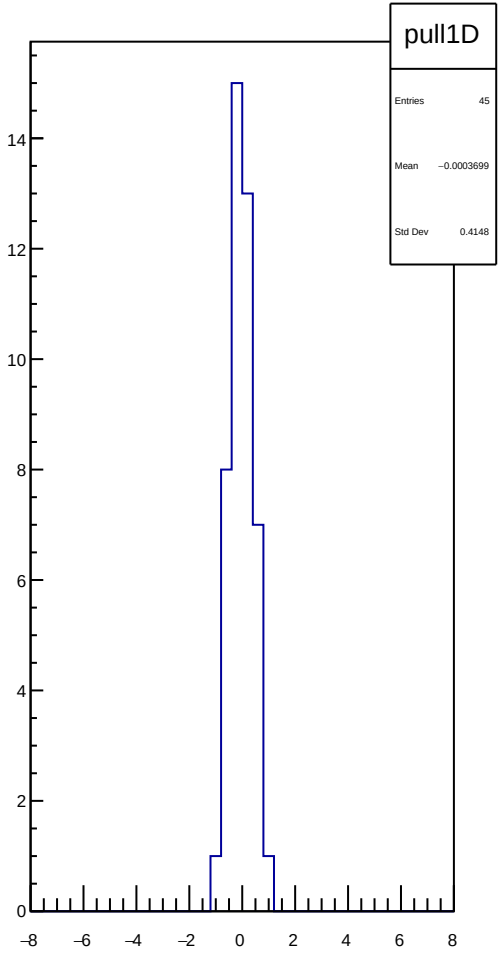

pull1D
Entries 45
Mean −0.01304
Std Dev 0.5445

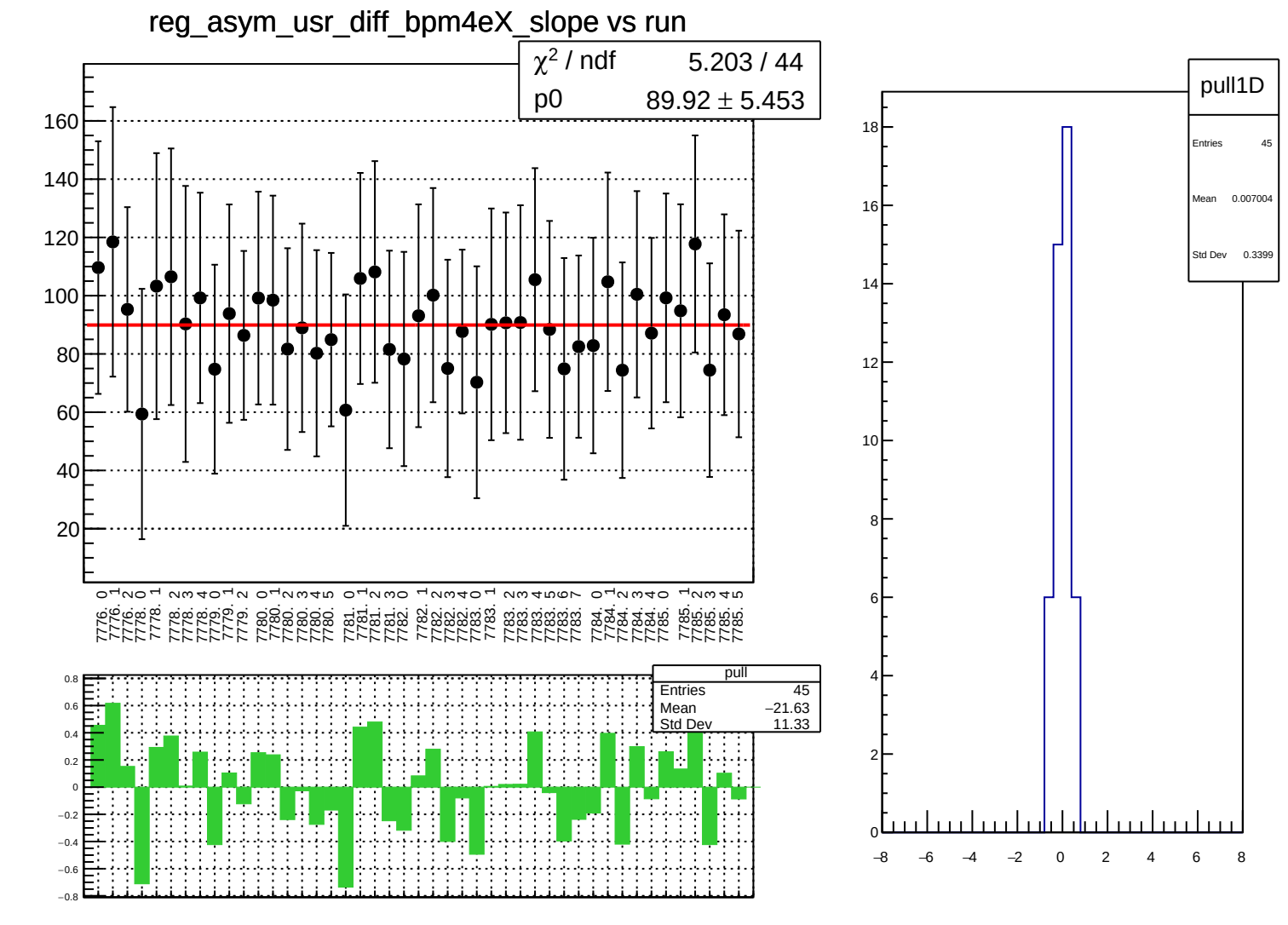

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 412.6 / 44
p0 −40.03 ± 0.1291
pull
Entries 45
Mean 297.4
Std Dev 280.5
pull1D
Entries 45
Mean −0.27
Std Dev 2.796

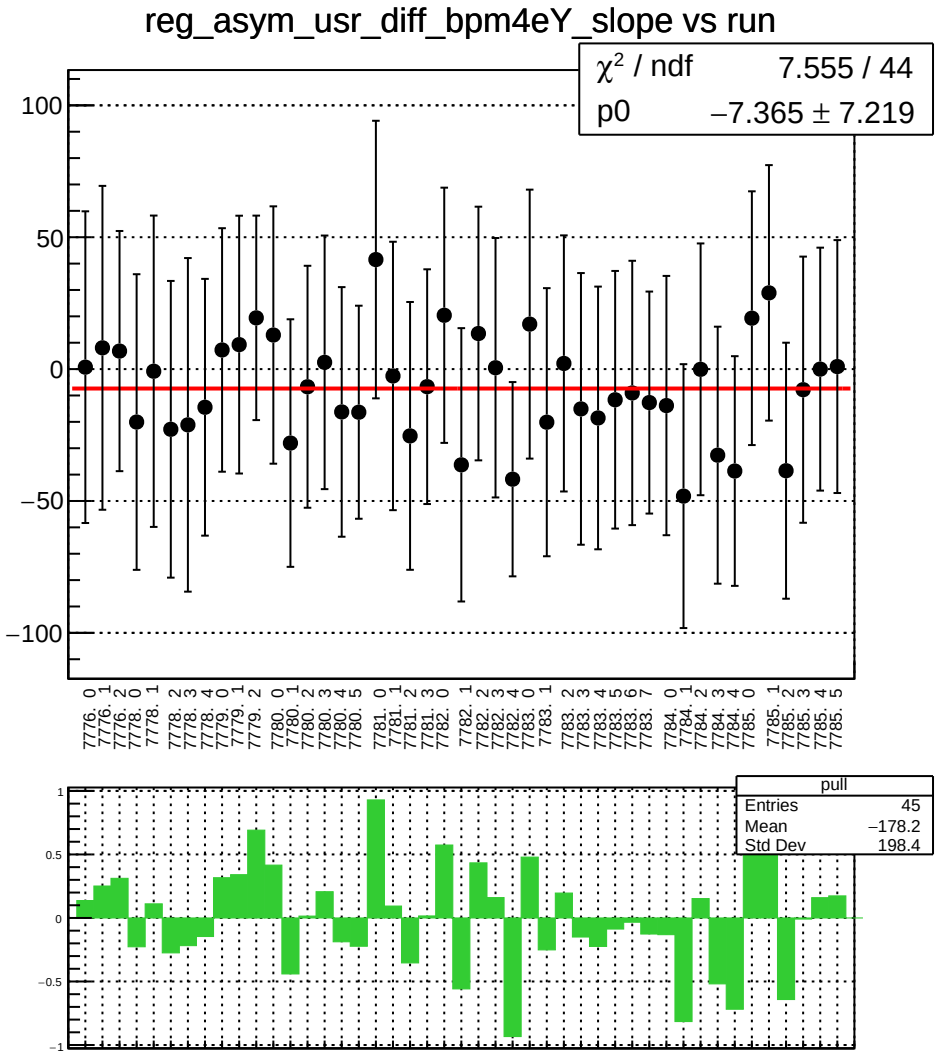

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 5.007 / 44
p0 −30.06 ± 6.263
pull
Entries 45
Mean 20.36
Std Dev 50.71

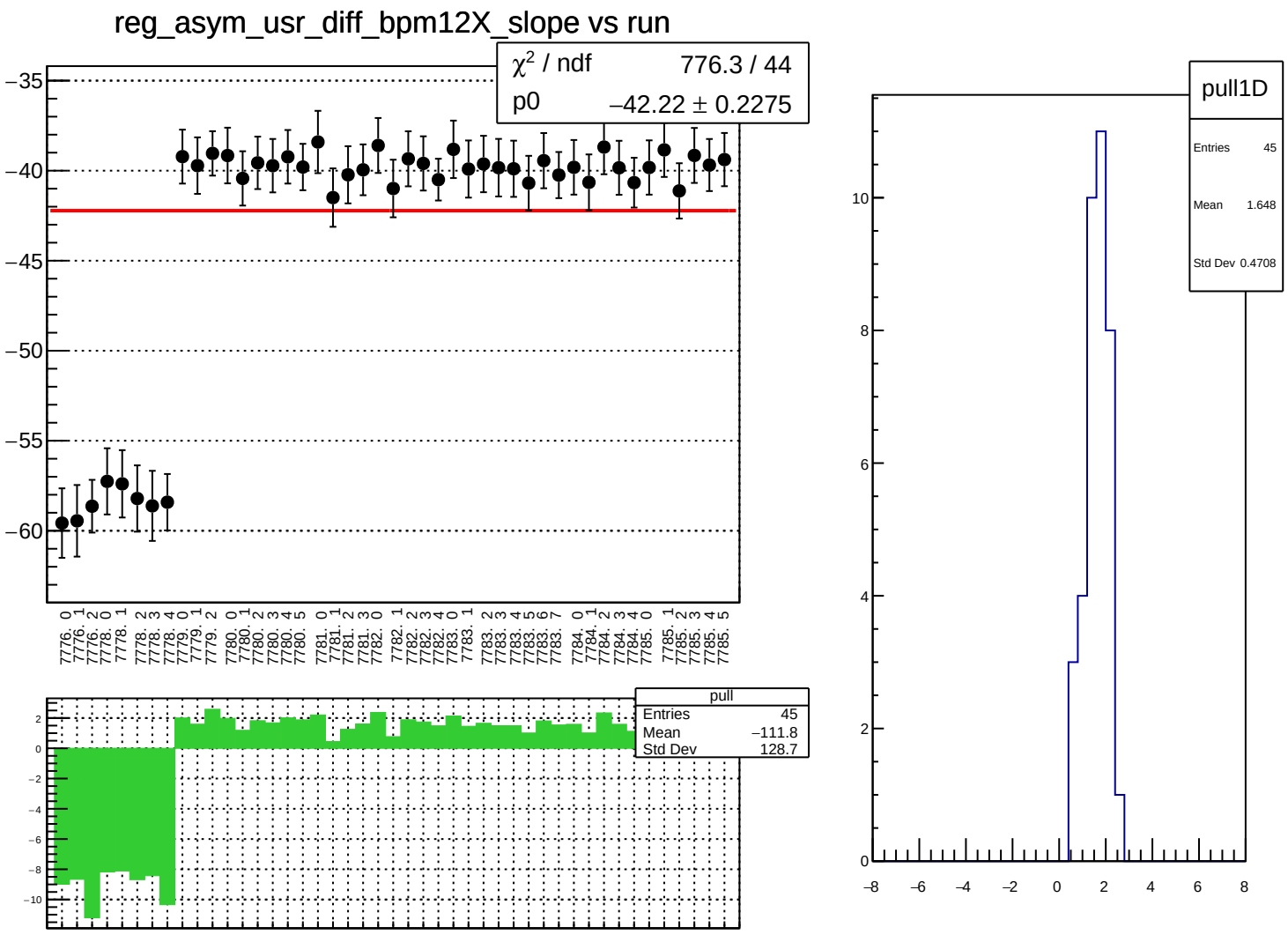

pull1D
Entries 45
Mean −0.004207
Std Dev 0.3335

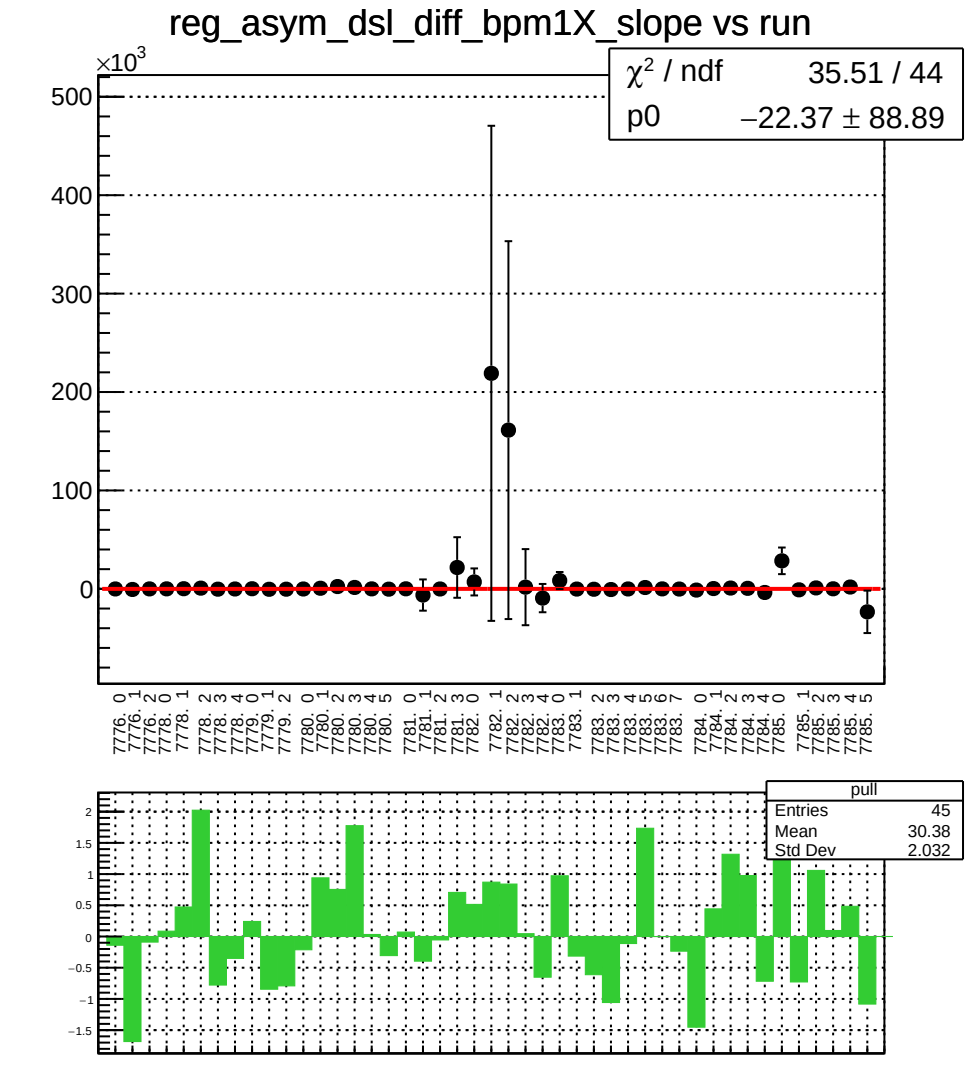

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 7.743 / 44
p0 22.94 ± 6.394
pull
Entries 45
Mean −791.3
Std Dev 819

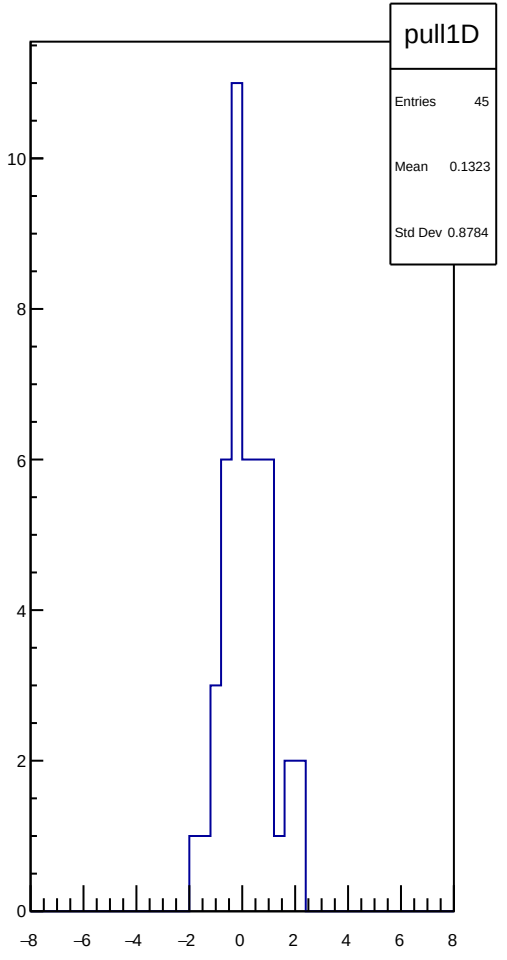

pull1D
Entries 45
Mean −0.0003699
Std Dev 0.4148

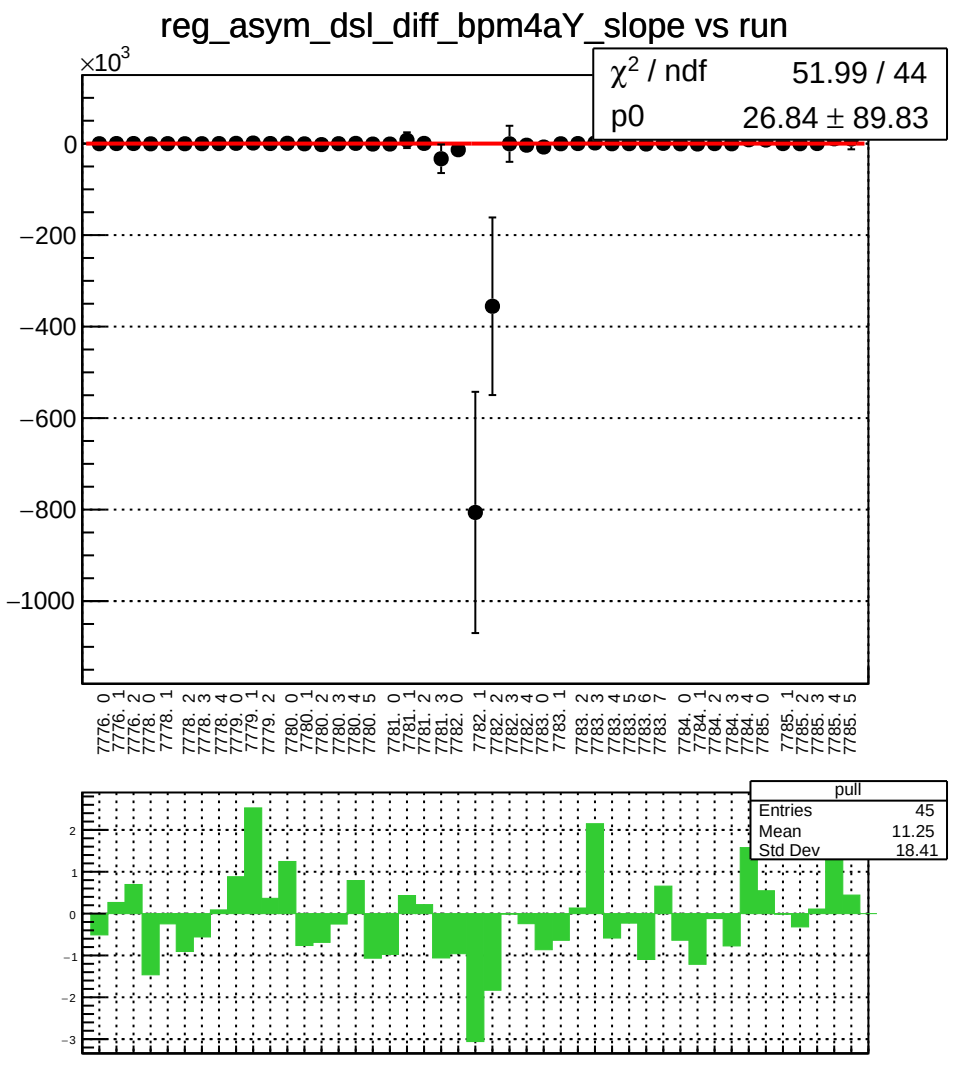

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 5.203 / 44
p0 89.92 ± 5.453
pull
Entries 45
Mean −21.63
Std Dev 11.33
pull1D
Entries 45
Mean 0.007004
Std Dev 0.3399

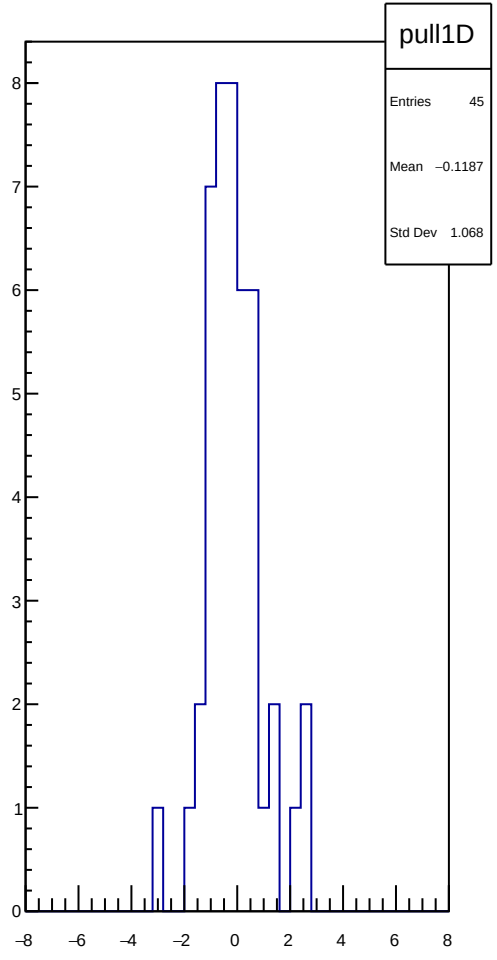

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 7.555 / 44
p0 −7.365 ± 7.219
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −178.2
Std Dev 198.4
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.004439
Std Dev 0.4097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

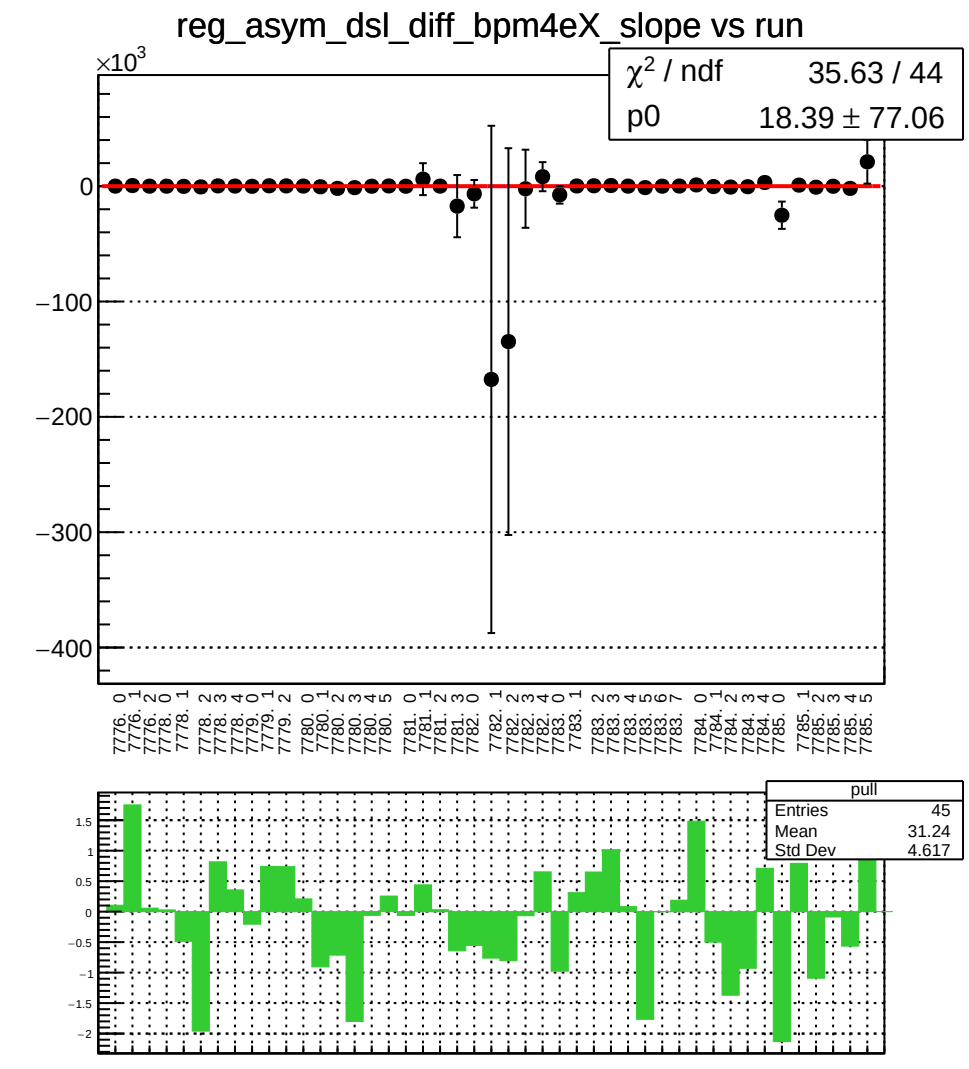

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 776.3 / 44
p0 −42.22 ± 0.2275
−35
−40
−45
−50
−55
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −111.8
Std Dev 128.7
2
0
−2
−4
−6
−8
−10
pull1D
Entries 45
Mean 1.648
Std Dev 0.4708
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

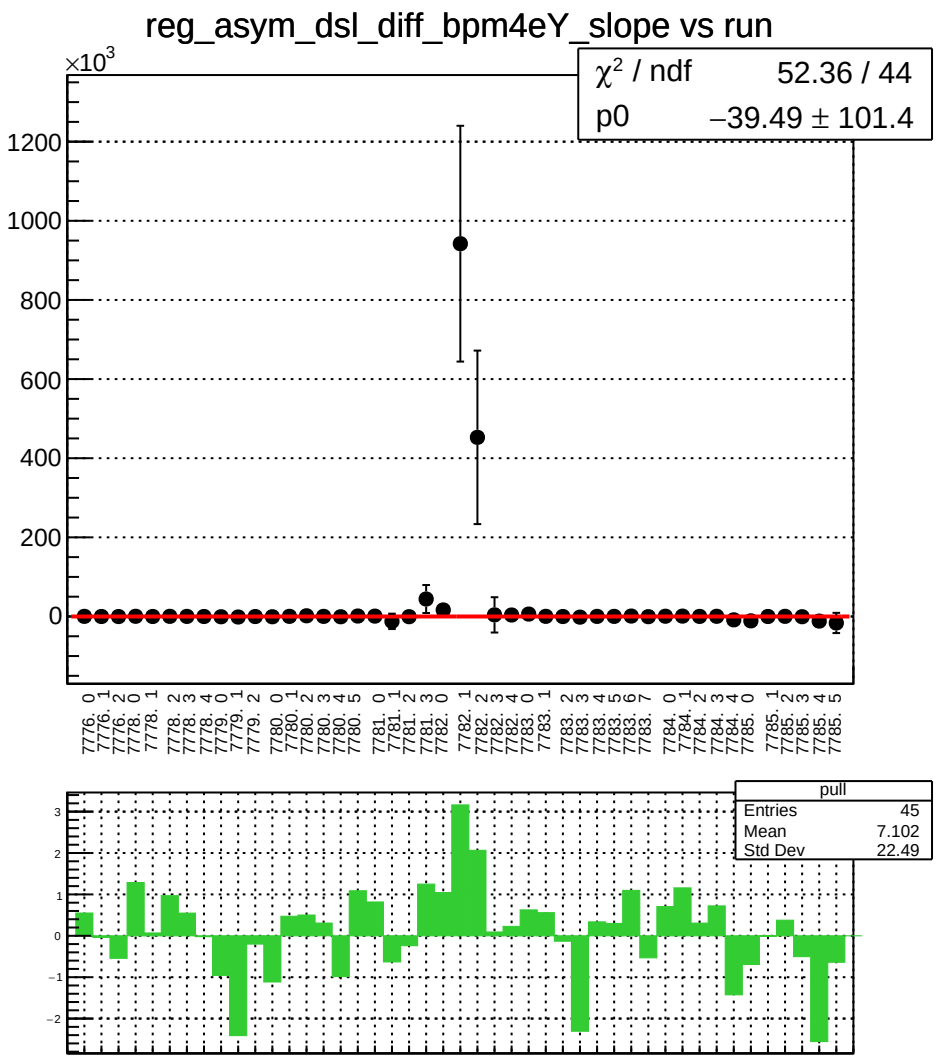

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.51 / 44
p0 −22.37 ± 88.89
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.38
Std Dev 2.032
2
1.5
1
0.5
0
−0.5
−1
−1.5

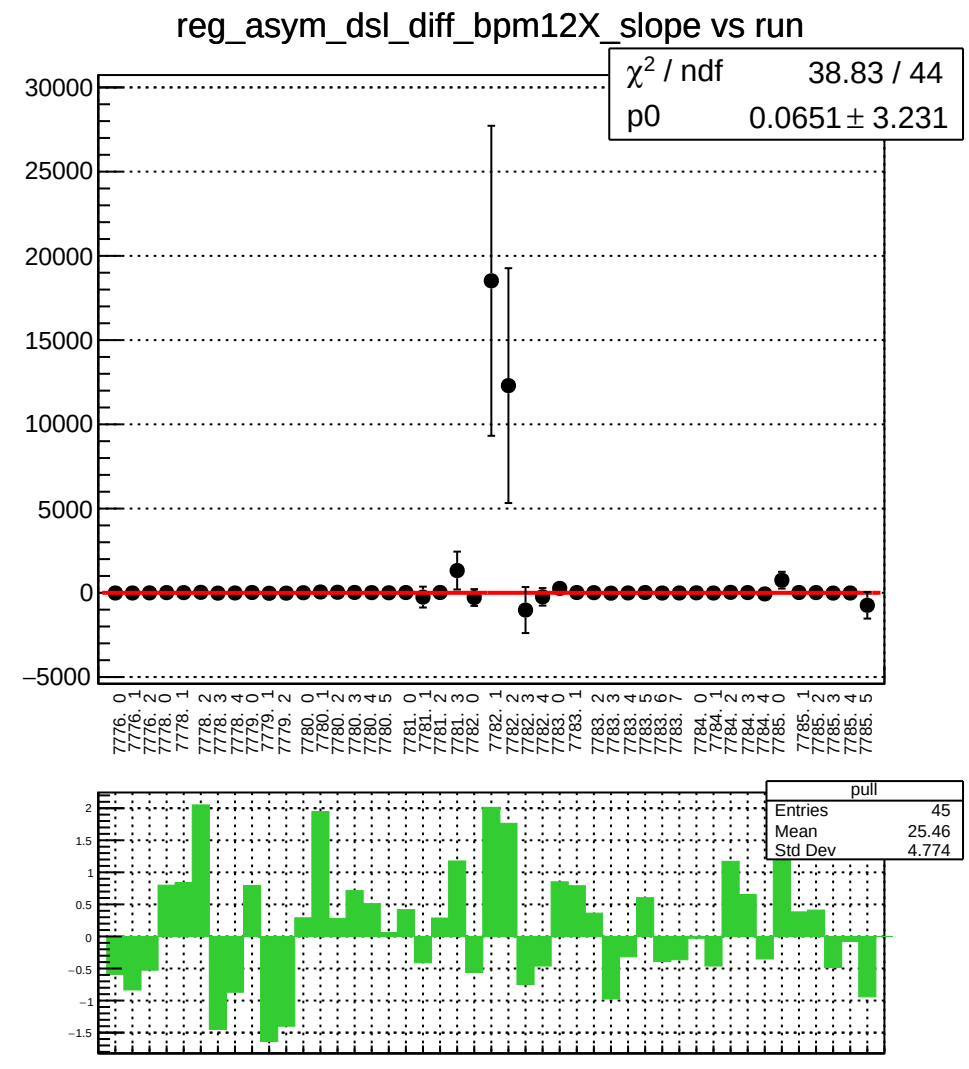

pull1D
Entries 45
Mean 0.1323
Std Dev 0.8784
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

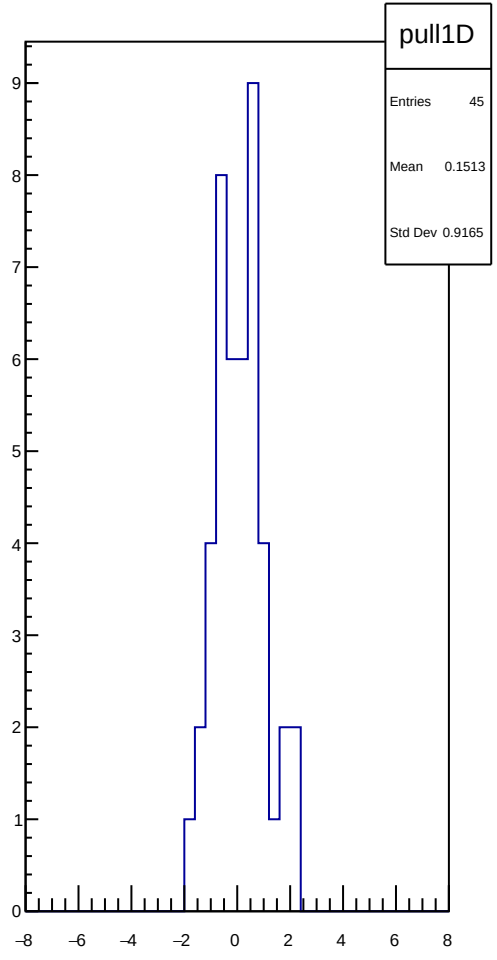

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 51.99 / 44
p0 26.84 ± 89.83
0
−200
−400
−600
−800
−1000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 11.25
Std Dev 18.41
2
1
0
−1
−2
−3

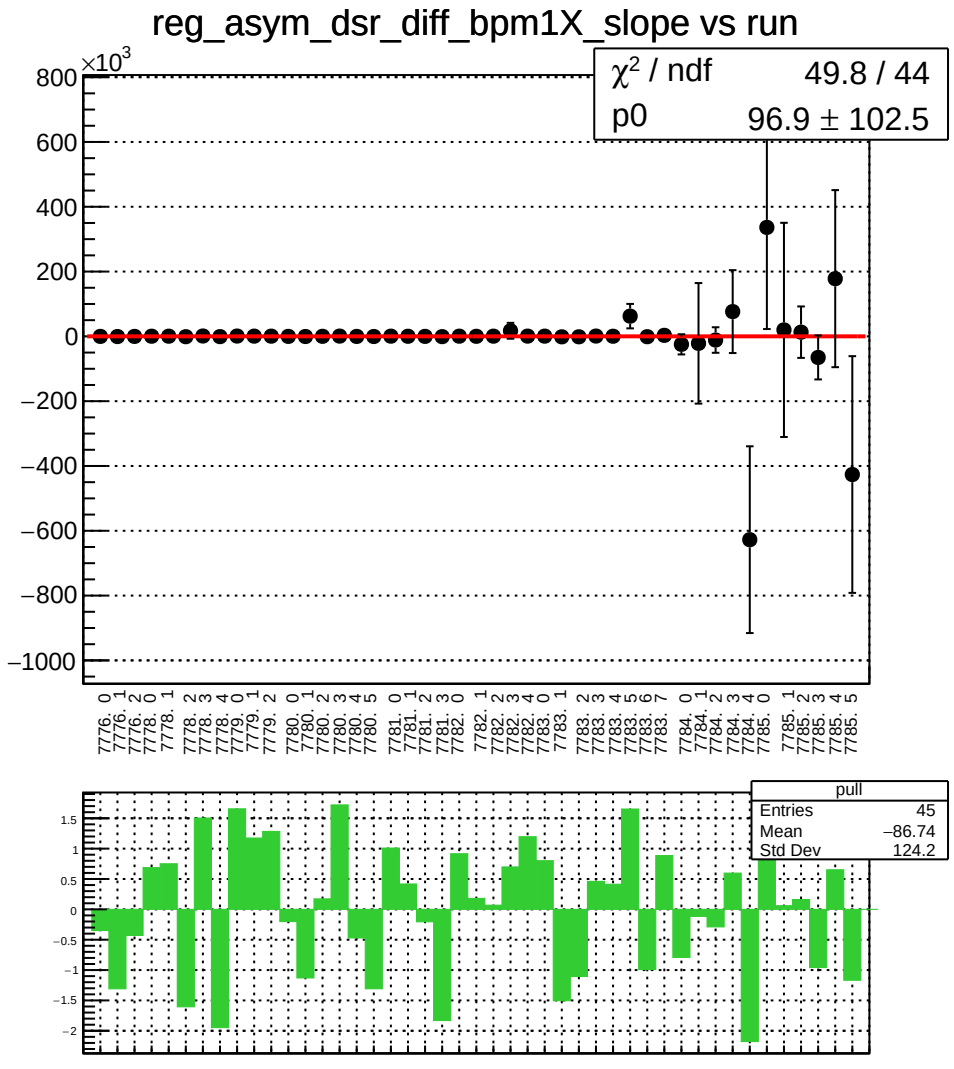

pull1D
Entries 45
Mean −0.1187
Std Dev 1.068
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

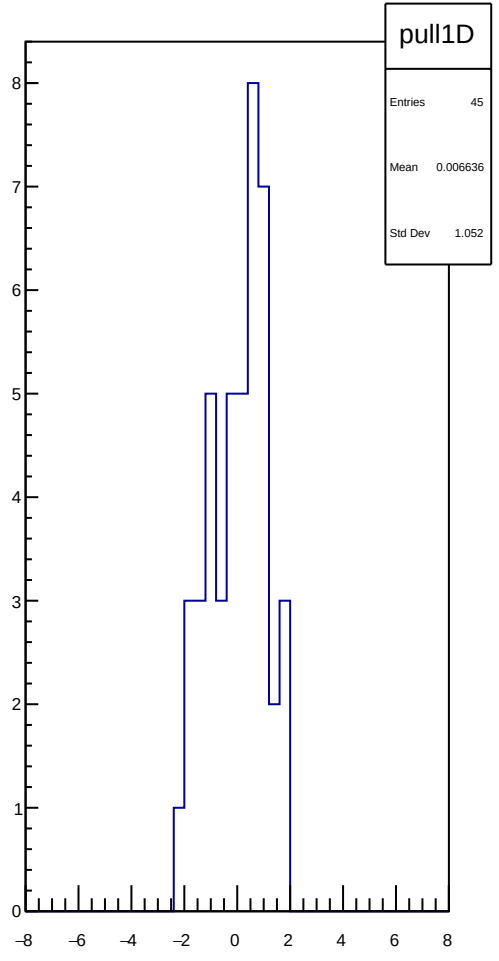

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 35.63 / 44
p0 18.39 ± 77.06
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 31.24
Std Dev 4.617
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.1312
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

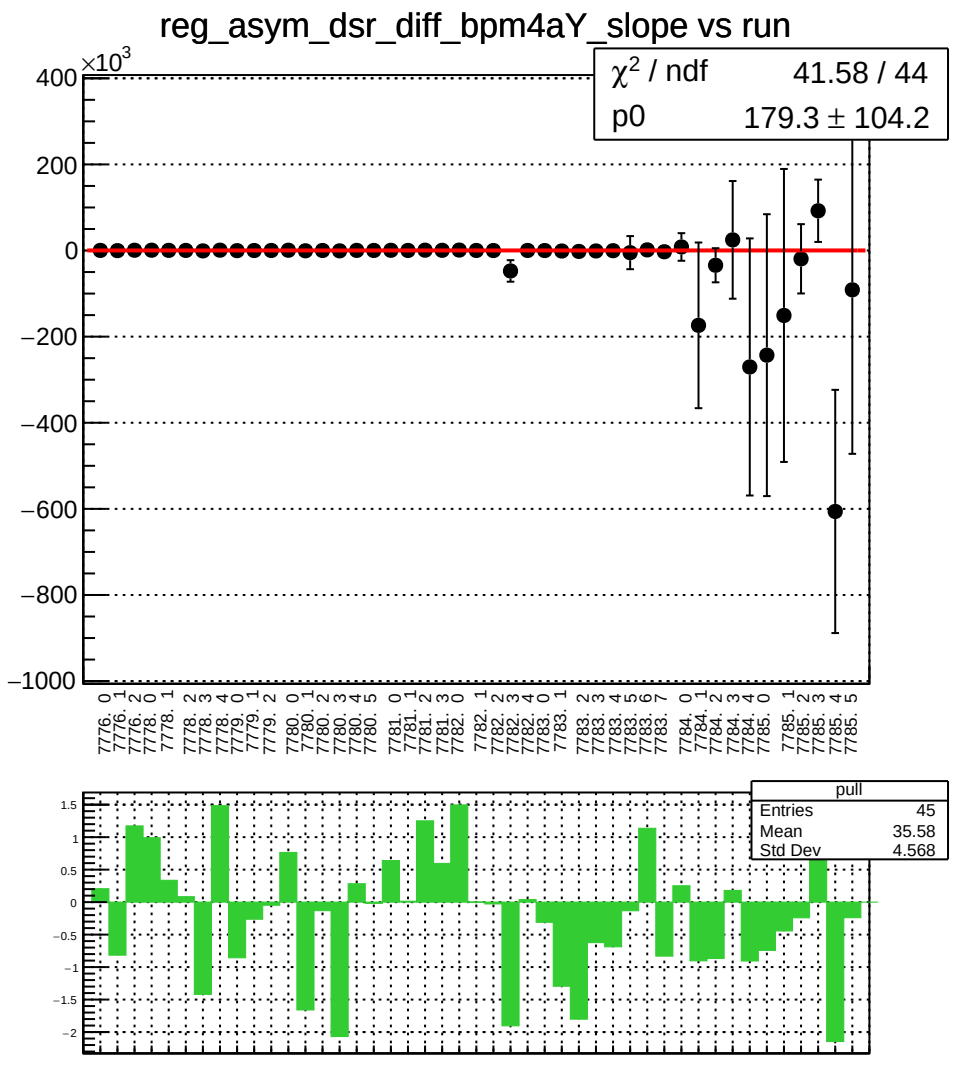

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 52.36 / 44
p0 −39.49 ± 101.4
×10³
1200
1000
800
600
400
200
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.102
Std Dev 22.49
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.1043
Std Dev 1.074
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

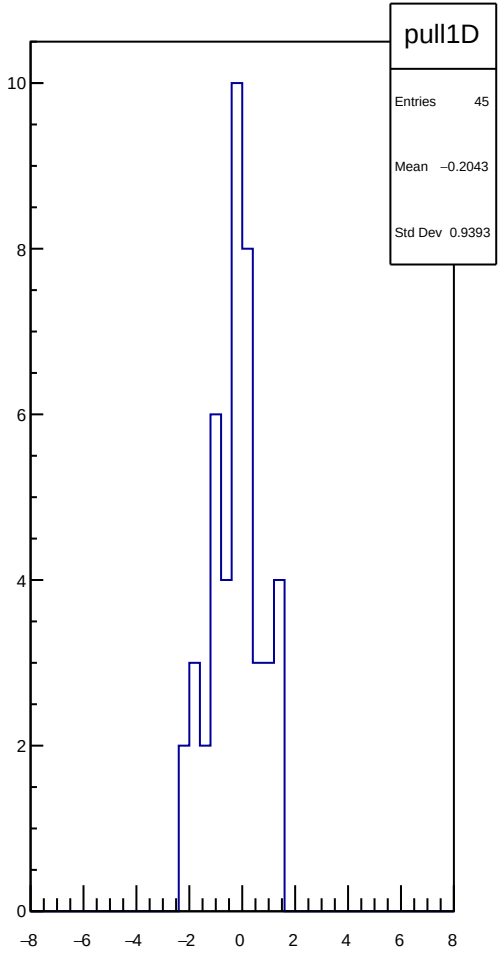

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 38.83 / 44
p0 0.0651 ± 3.231
pull
Entries 45
Mean 25.46
Std Dev 4.774

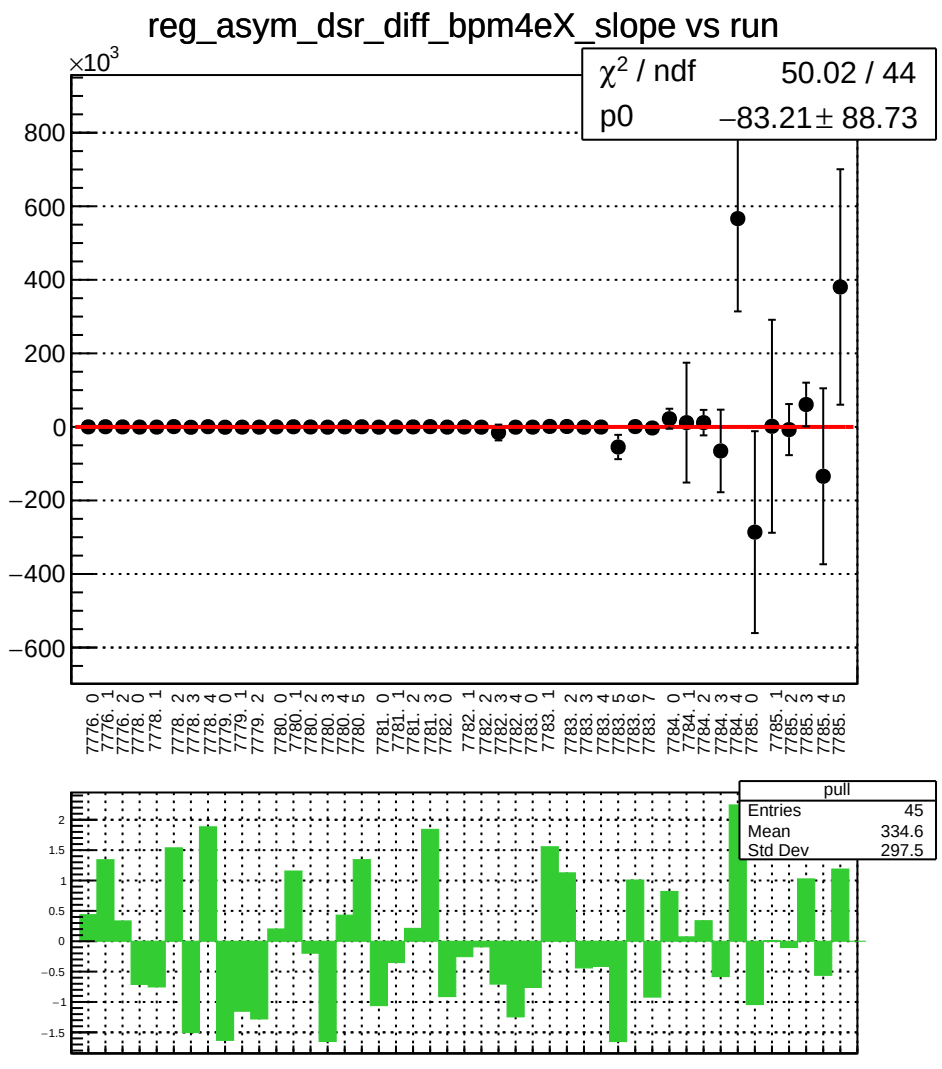

pull1D
Entries 45
Mean 0.1513
Std Dev 0.9165

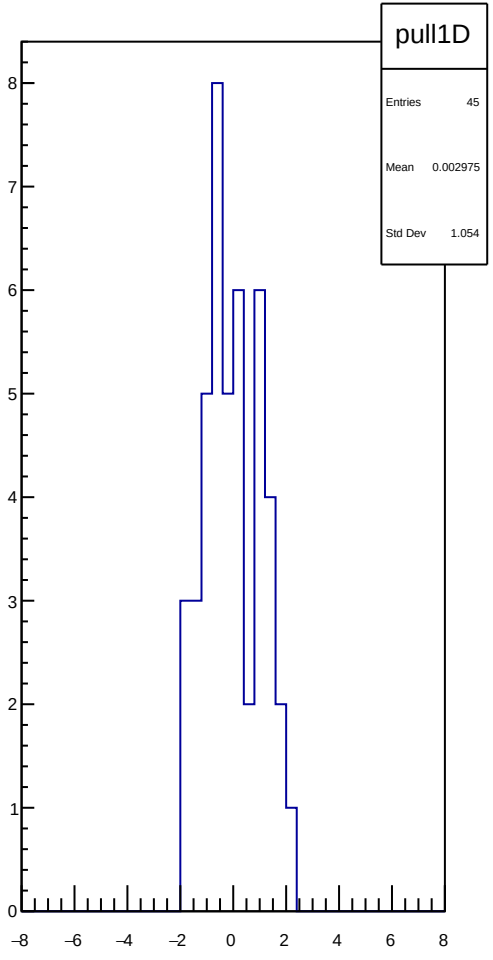

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 49.8 / 44
p0 96.9 ± 102.5
×10³
pull
Entries 45
Mean −86.74
Std Dev 124.2

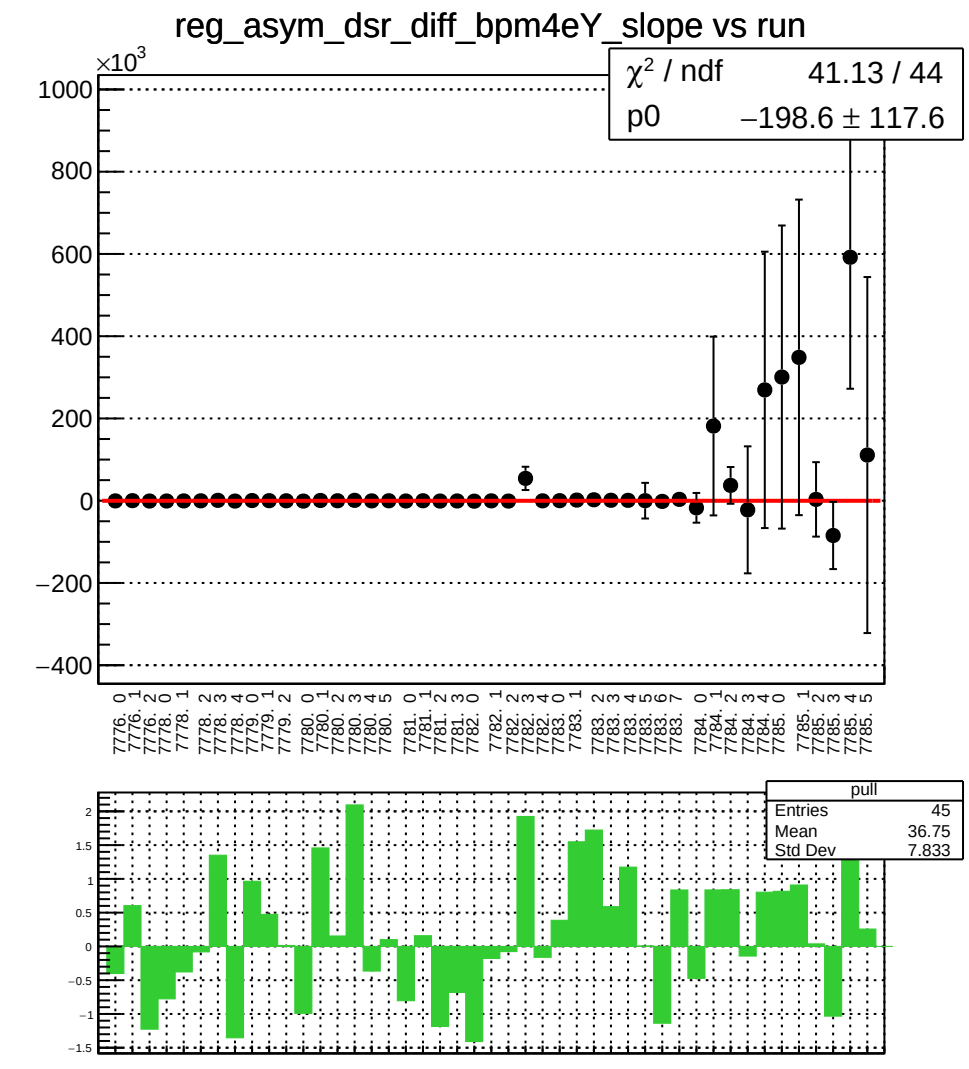

pull1D
Entries 45
Mean 0.006636
Std Dev 1.052

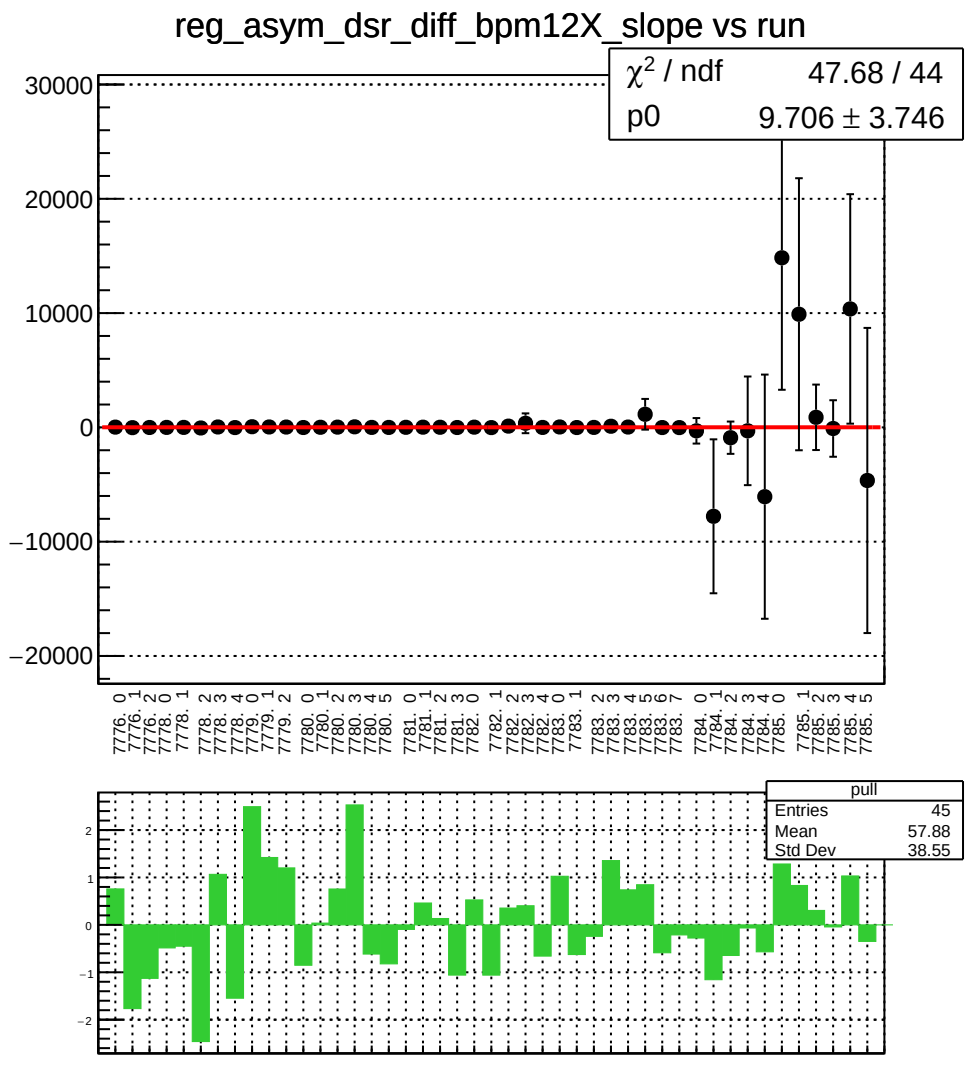

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 41.58 / 44
p0 179.3 ± 104.2
pull
Entries 45
Mean 35.58
Std Dev 4.568

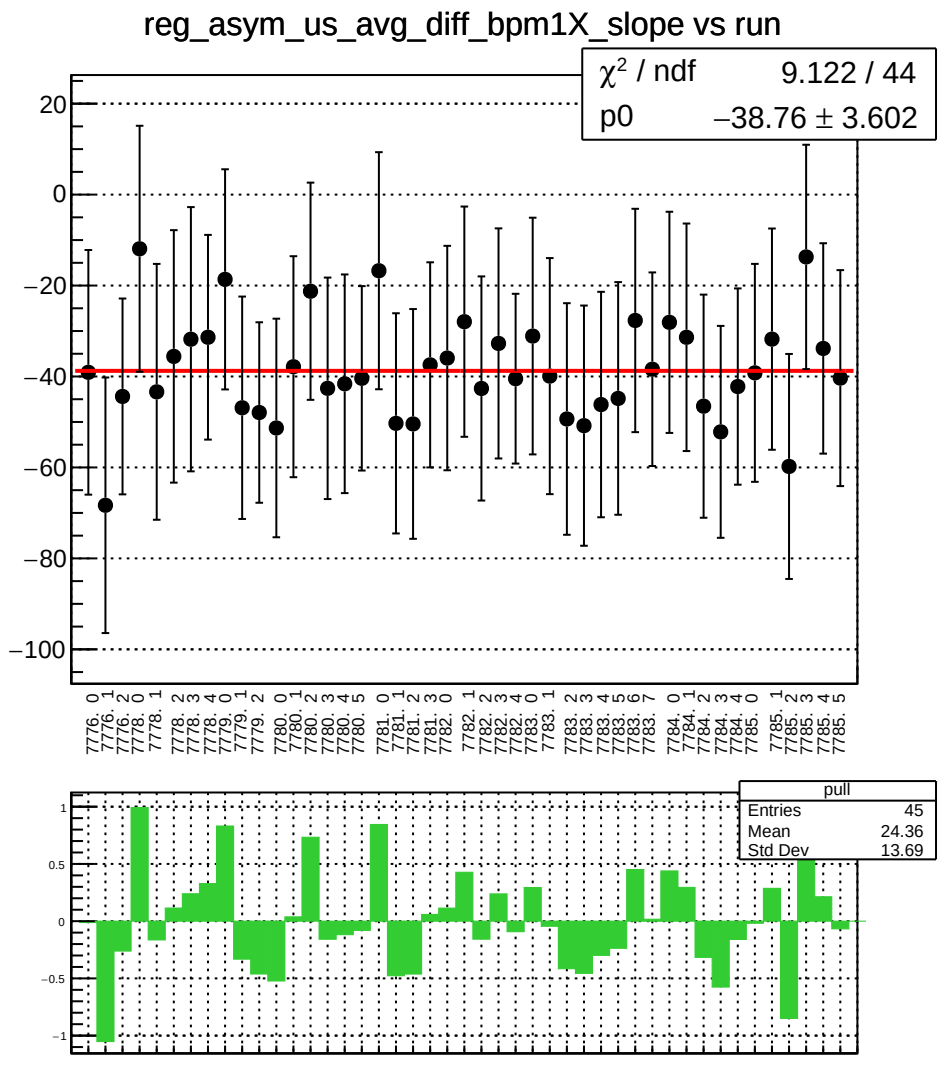

pull1D
Entries 45
Mean −0.2043
Std Dev 0.9393

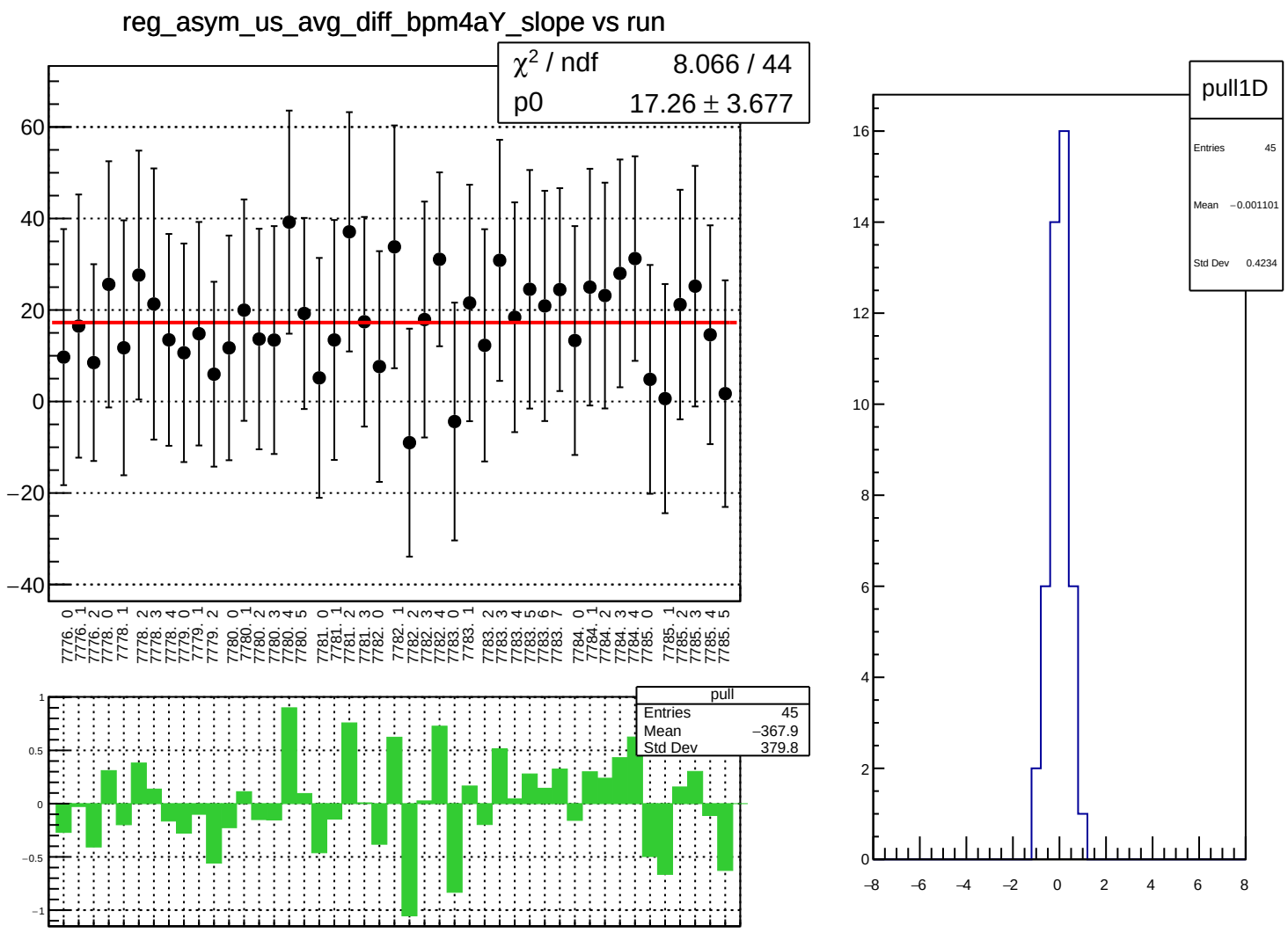

reg_asym_dsr_diff_bpm4eX_slope vs run
χ2 / ndf 50.02 / 44
p0 −83.21± 88.73
×10^3
800
600
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 334.6
Std Dev 297.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

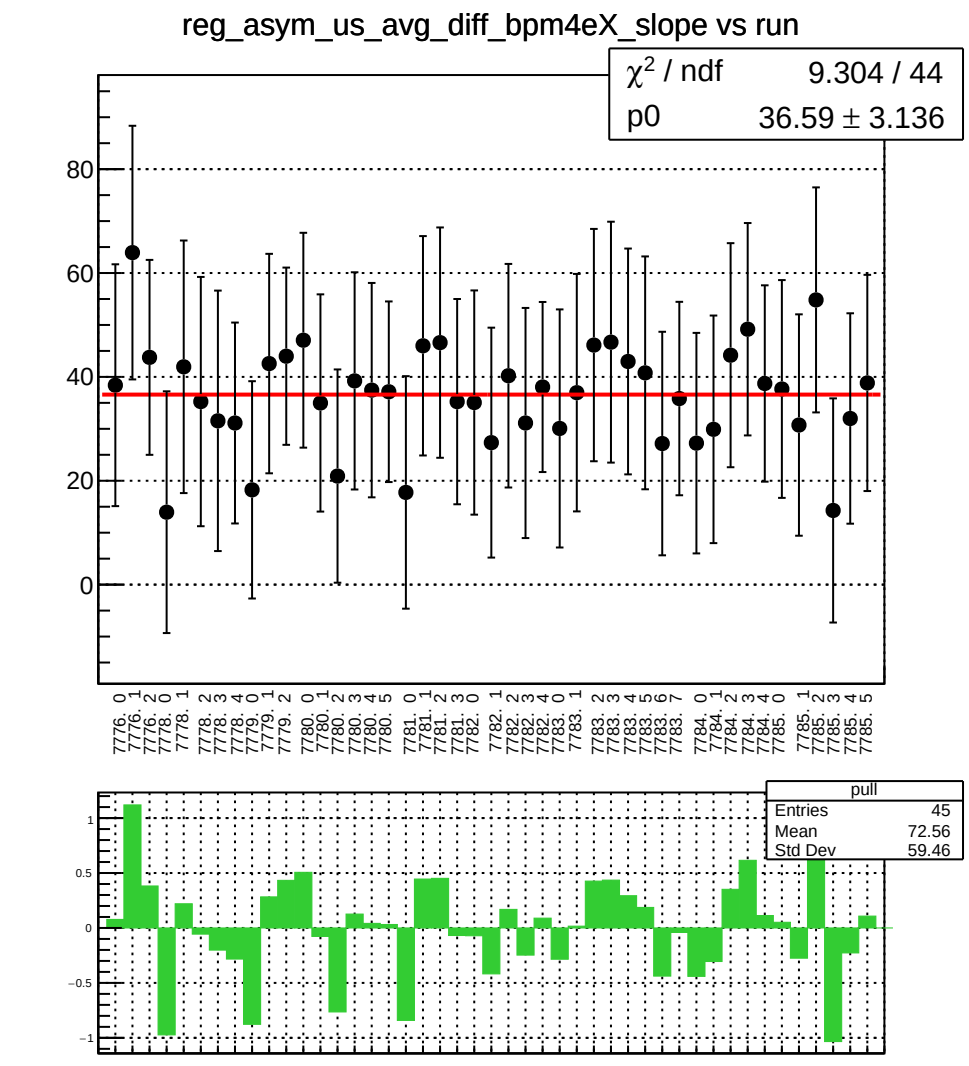

pull1D
Entries 45
Mean 0.002975
Std Dev 1.054
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

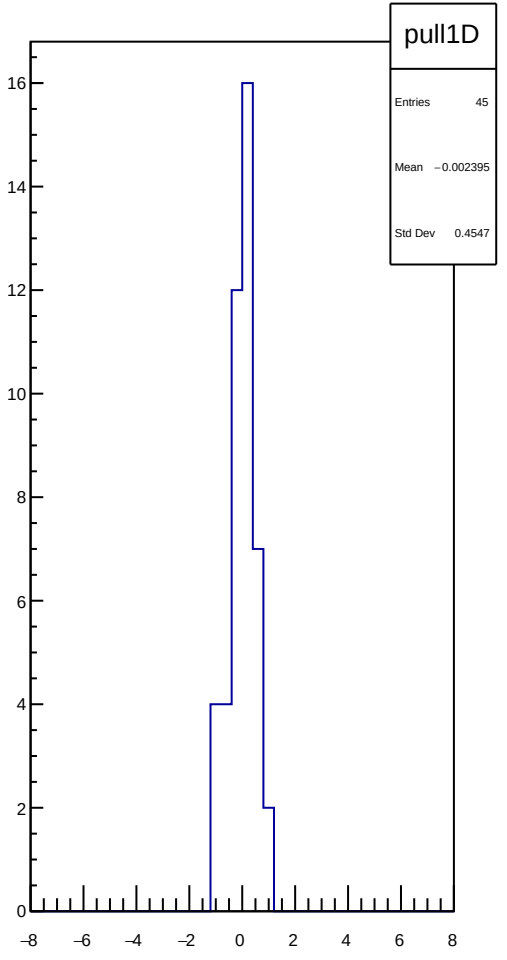

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 41.13 / 44
p0 −198.6 ± 117.6
1000
800
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 36.75
Std Dev 7.833
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.2013
Std Dev 0.9345
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

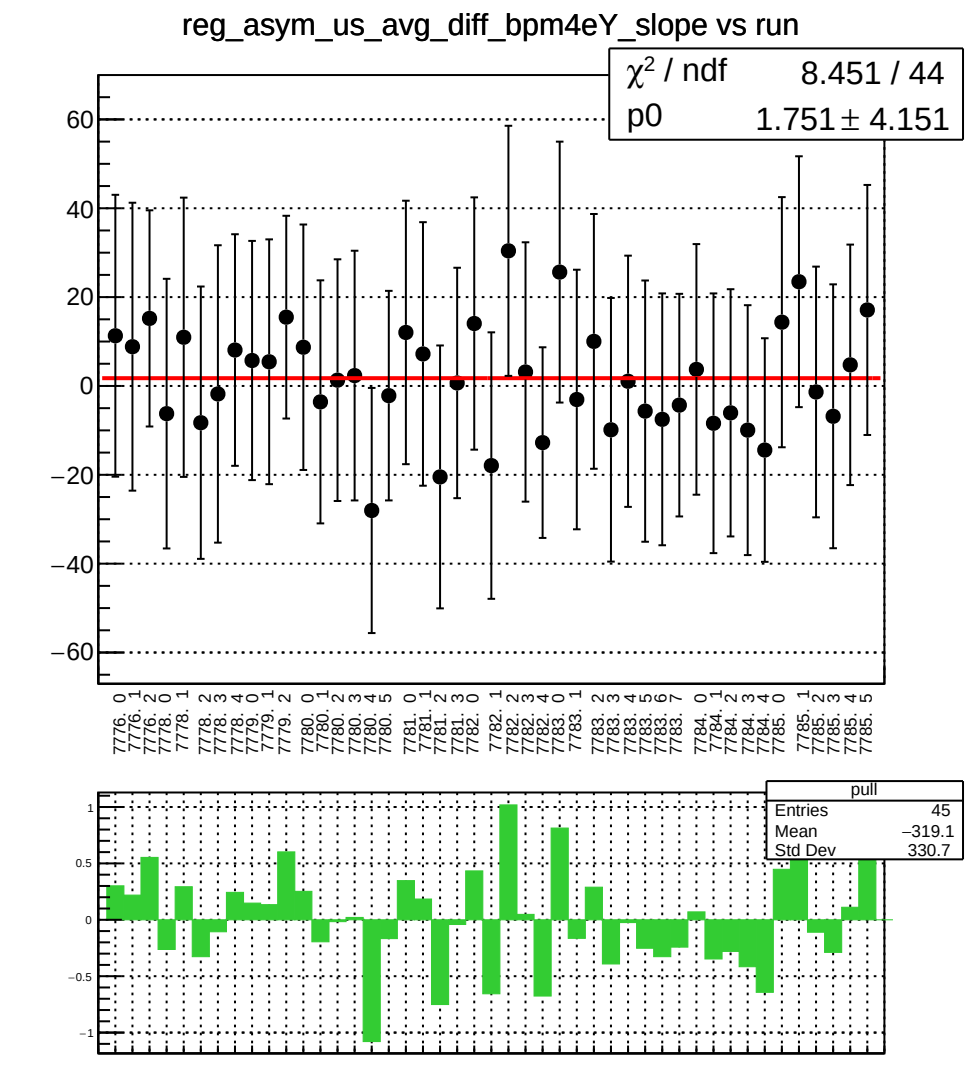

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 47.68 / 44
p0 9.706 ± 3.746
30000
20000
10000
0
−10000
−20000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 57.88
Std Dev 38.55
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03972
Std Dev 1.029
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

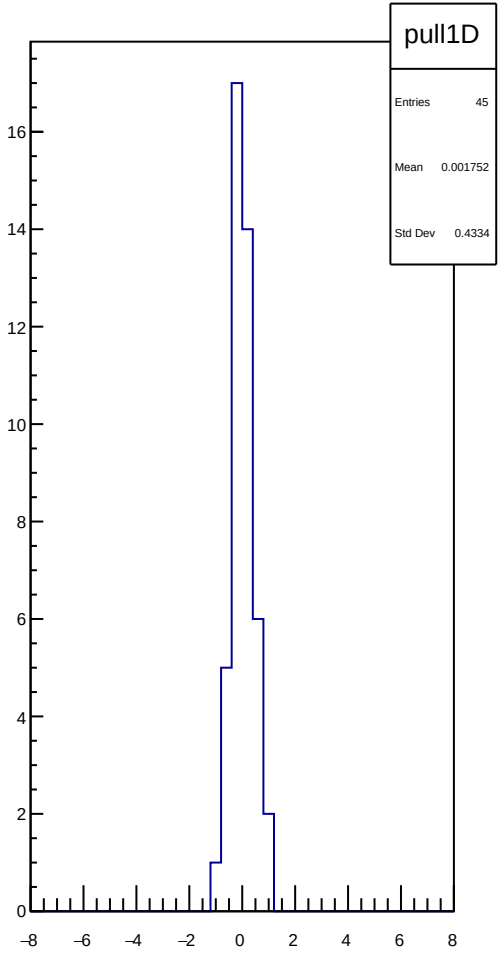

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 9.122 / 44
p0 −38.76 ± 3.602
20
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 24.36
Std Dev 13.69
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.004068
Std Dev 0.4502
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

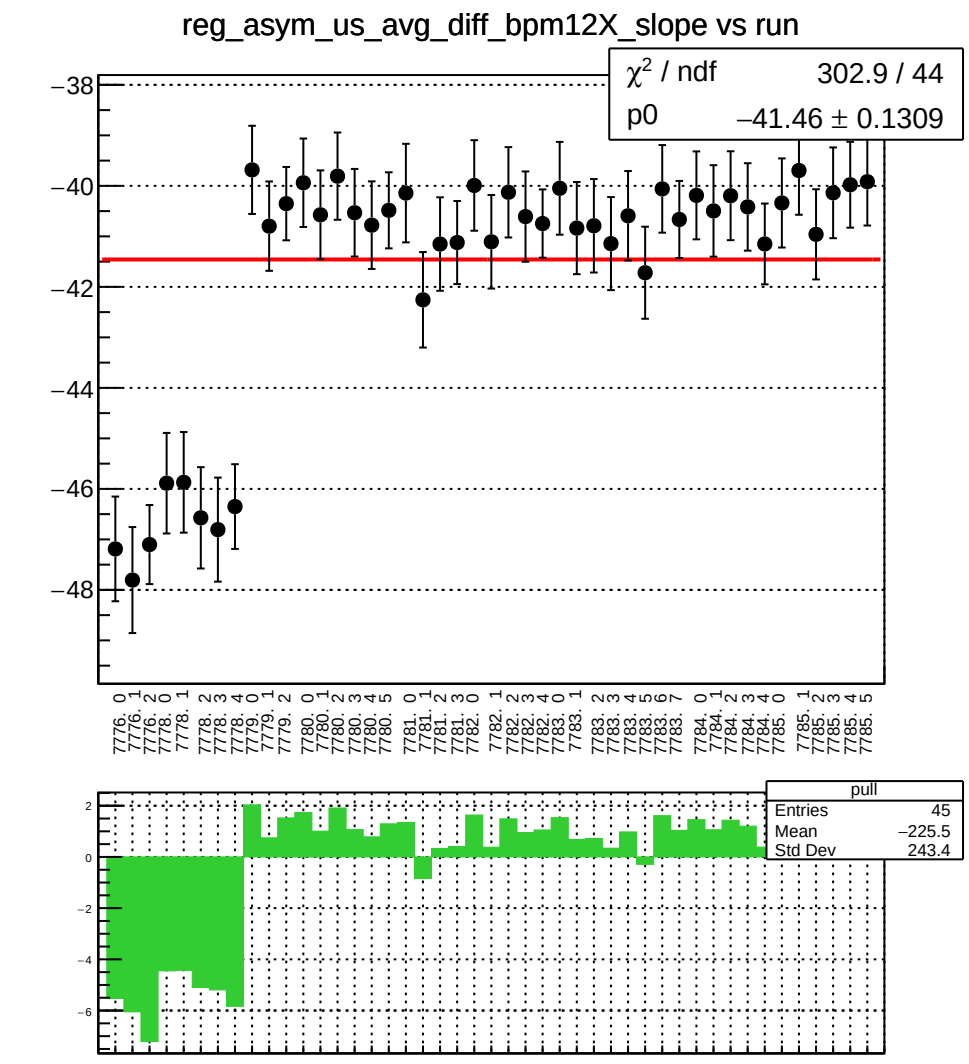

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.066 / 44
p0 17.26 ± 3.677
pull
Entries 45
Mean −367.9
Std Dev 379.8
pull1D
Entries 45
Mean −0.001101
Std Dev 0.4234

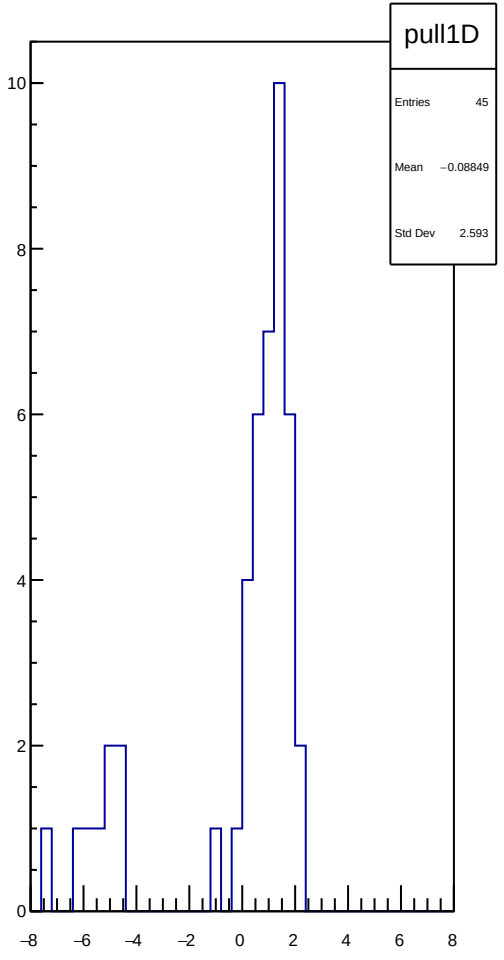

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.304 / 44
p0 36.59 ± 3.136
pull
Entries 45
Mean 72.56
Std Dev 59.46

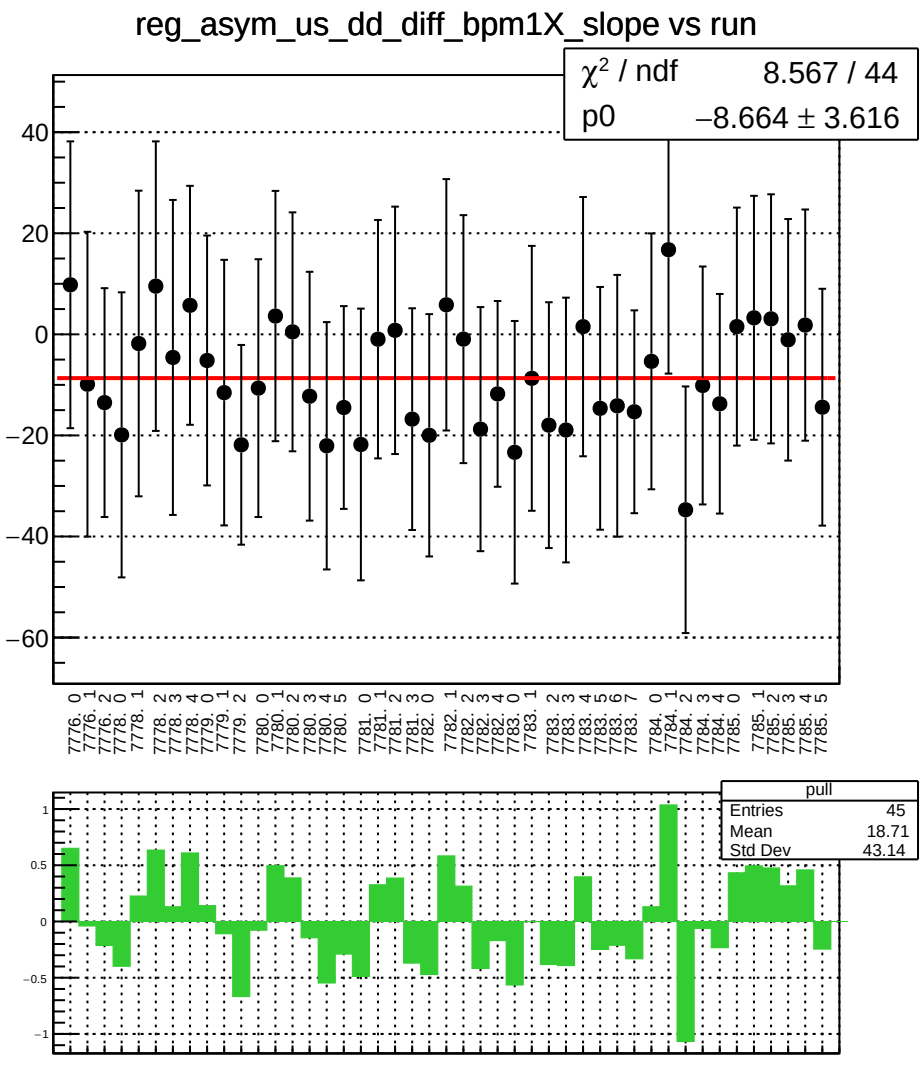

pull1D
Entries 45
Mean −0.002395
Std Dev 0.4547

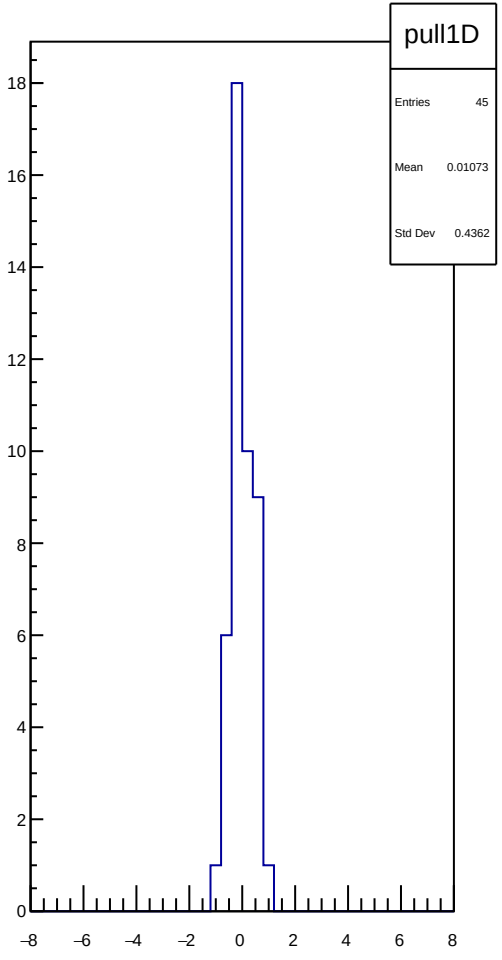

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.451 / 44
p0 1.751 ± 4.151
pull
Entries 45
Mean −319.1
Std Dev 330.7

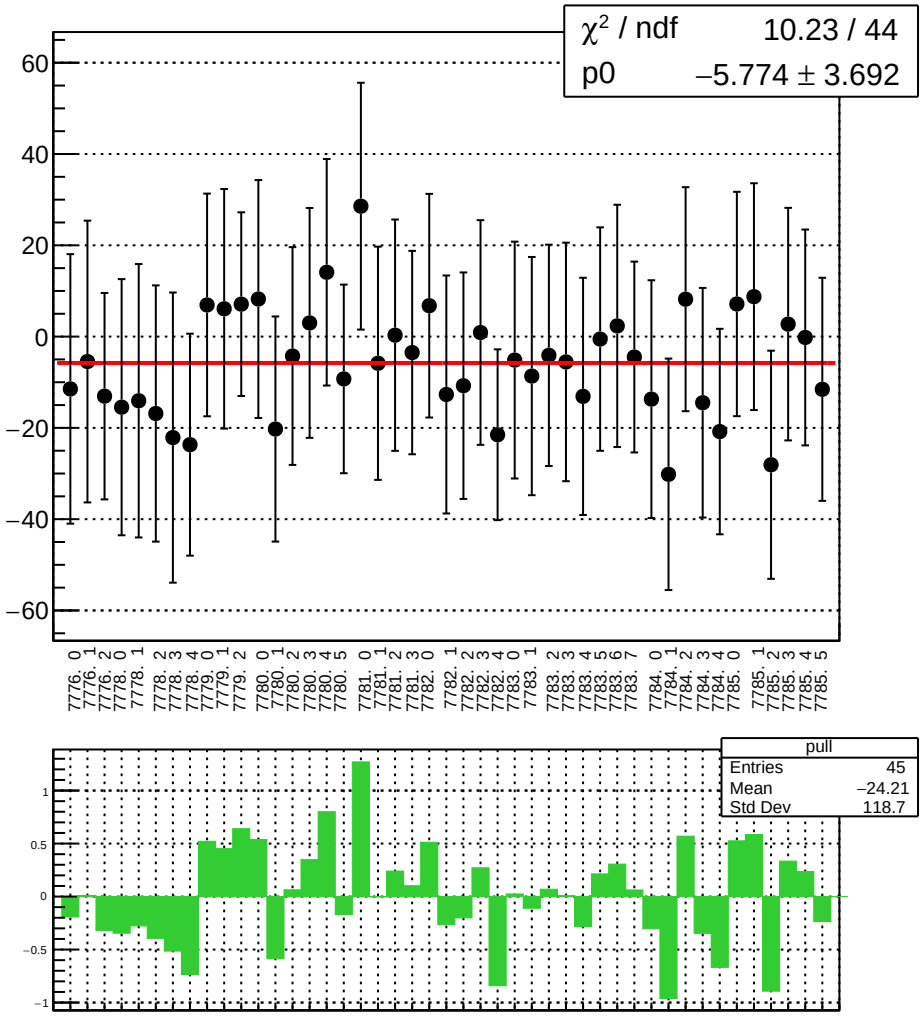

pull1D
Entries 45
Mean 0.001752
Std Dev 0.4334

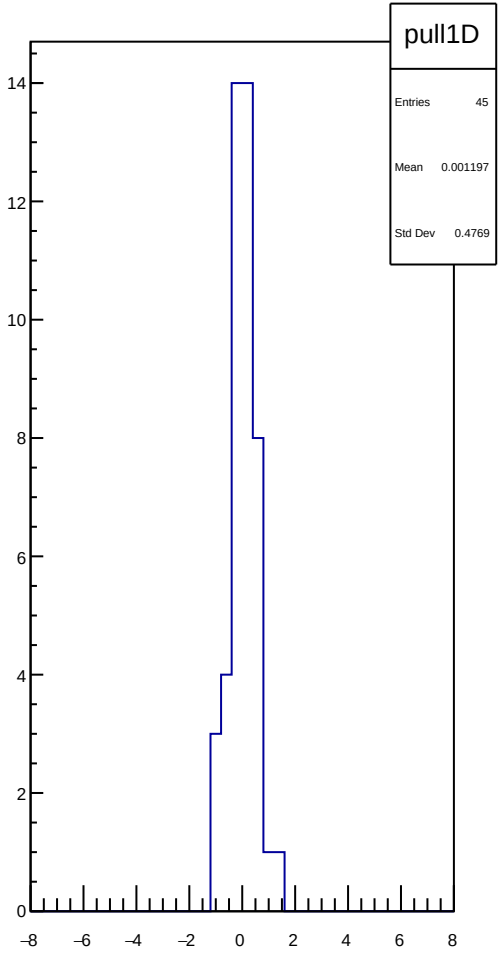

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 302.9 / 44
p0 −41.46 ± 0.1309
pull
Entries 45
Mean −225.5
Std Dev 243.4

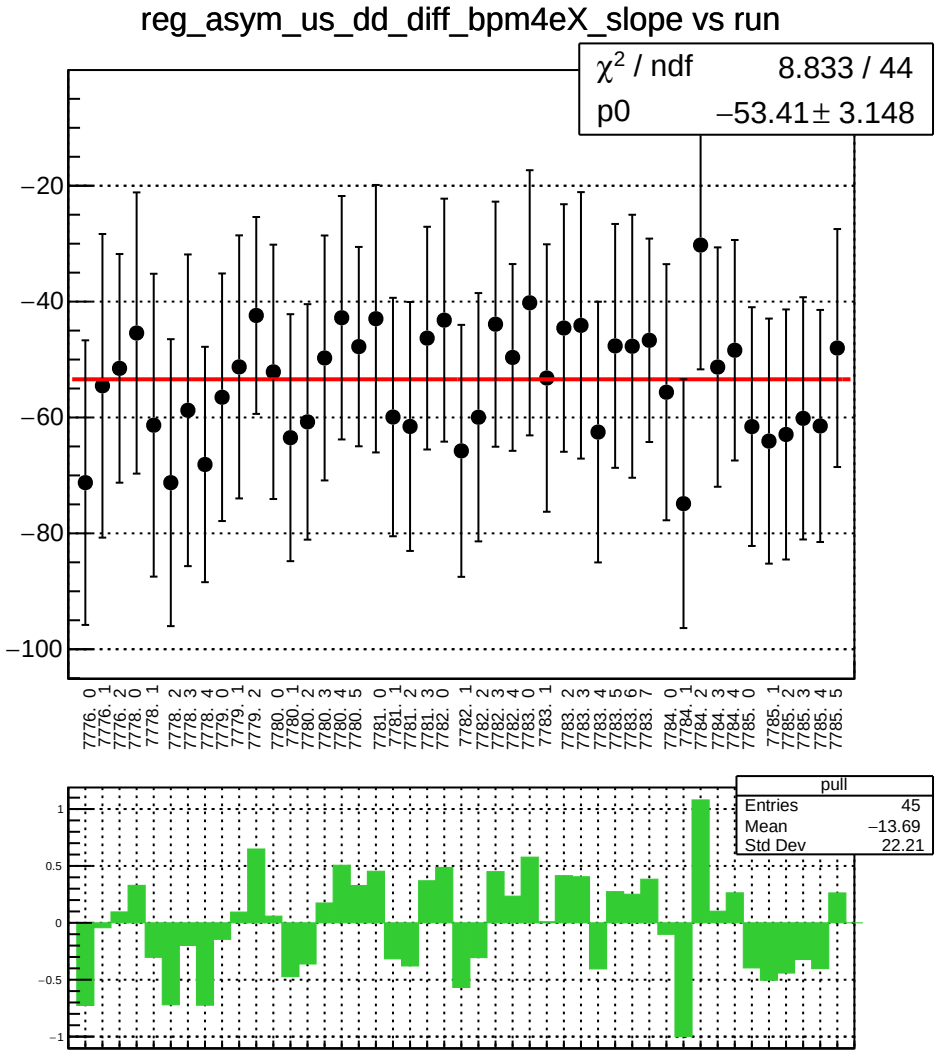

pull1D
Entries 45
Mean −0.08849
Std Dev 2.593

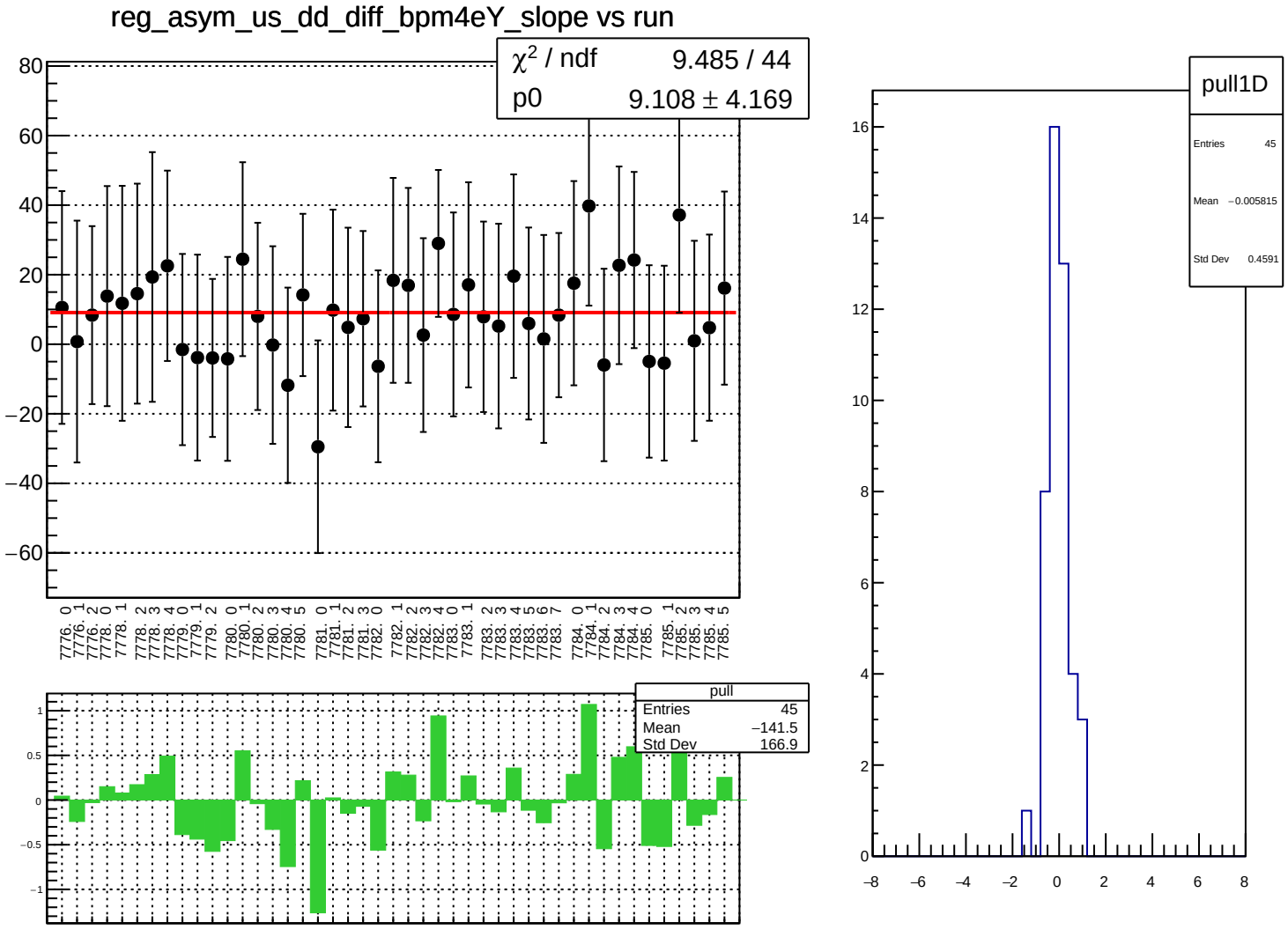

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 8.567 / 44
p0 −8.664 ± 3.616
40
20
0
−20
−40
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 18.71
Std Dev 43.14
1
0.5
0
−0.5
−1

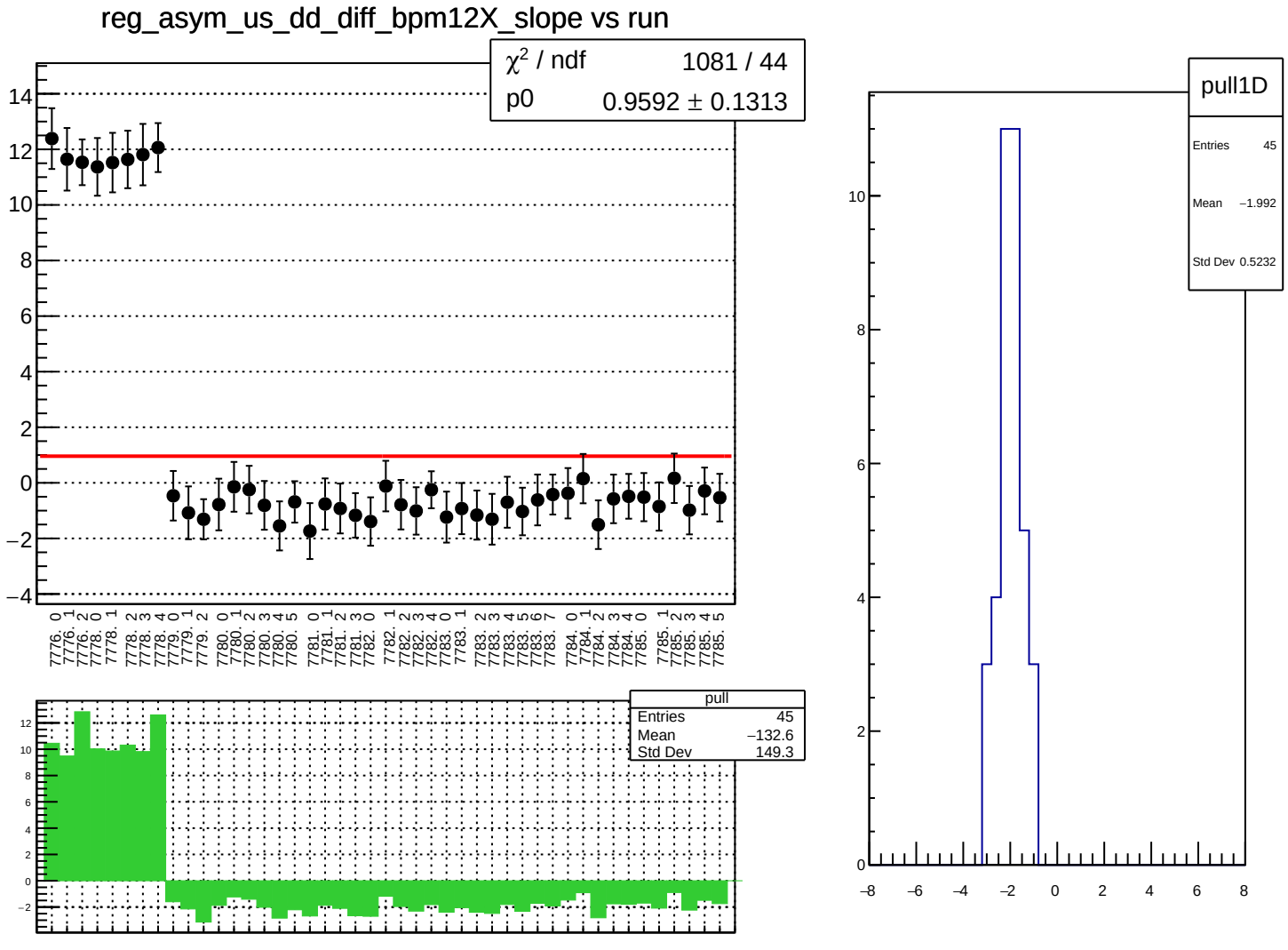

pull1D
Entries 45
Mean 0.01073
Std Dev 0.4362
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

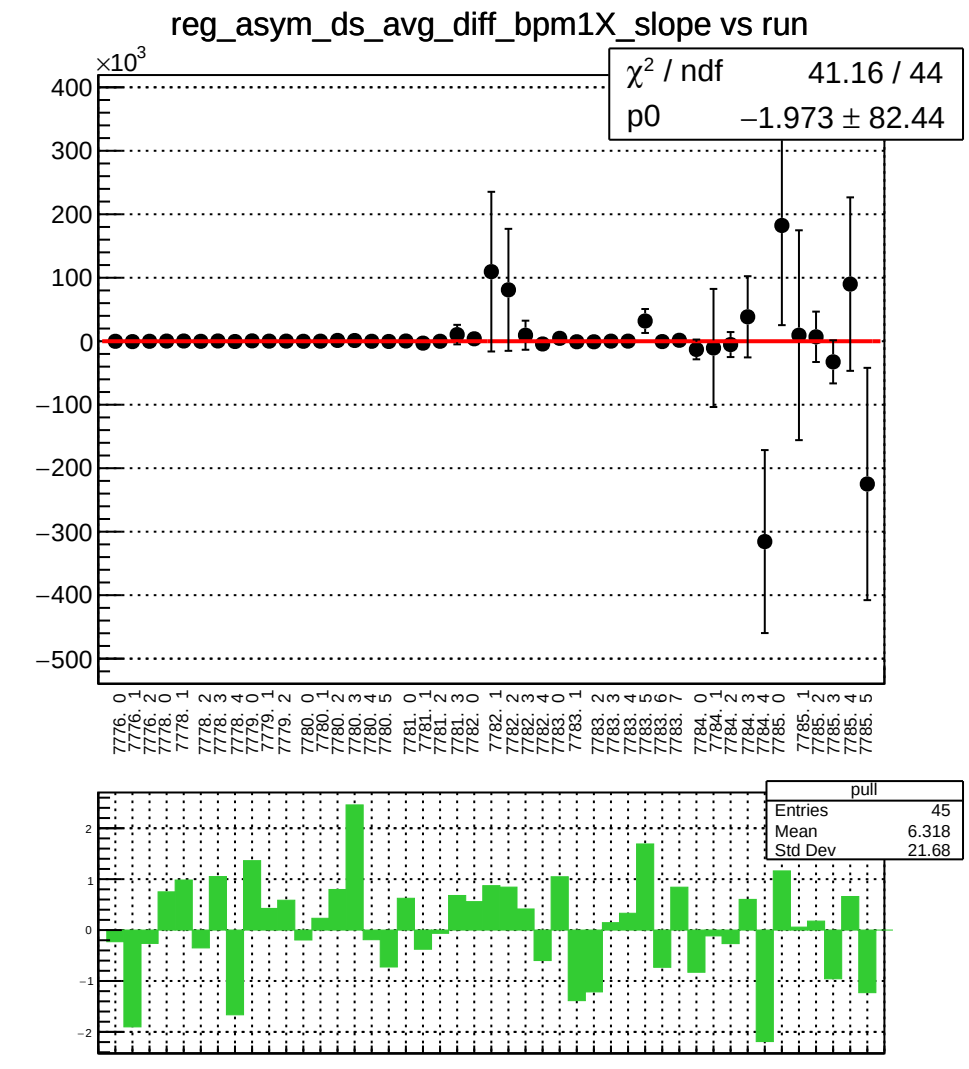

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.23 / 44
p0 −5.774 ± 3.692
pull
Entries 45
Mean −24.21
Std Dev 118.7

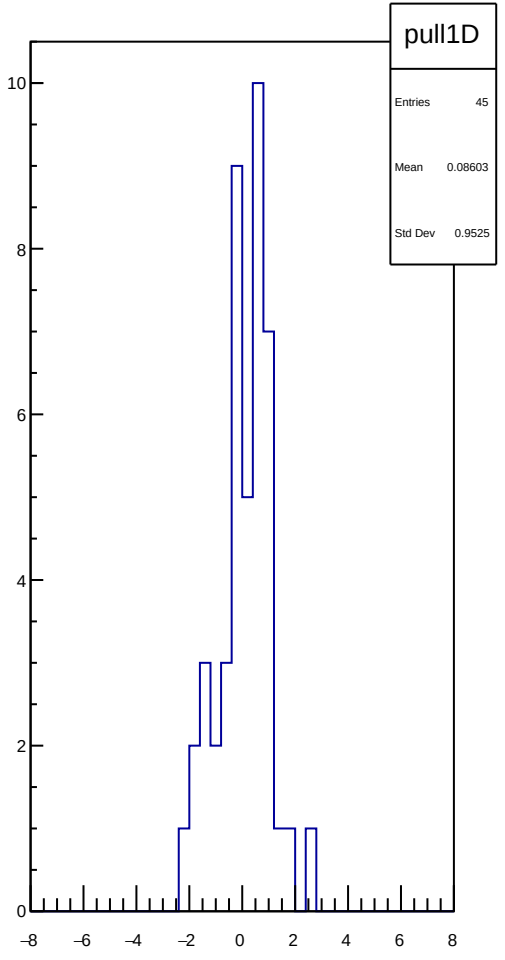

pull1D
Entries 45
Mean 0.001197
Std Dev 0.4769

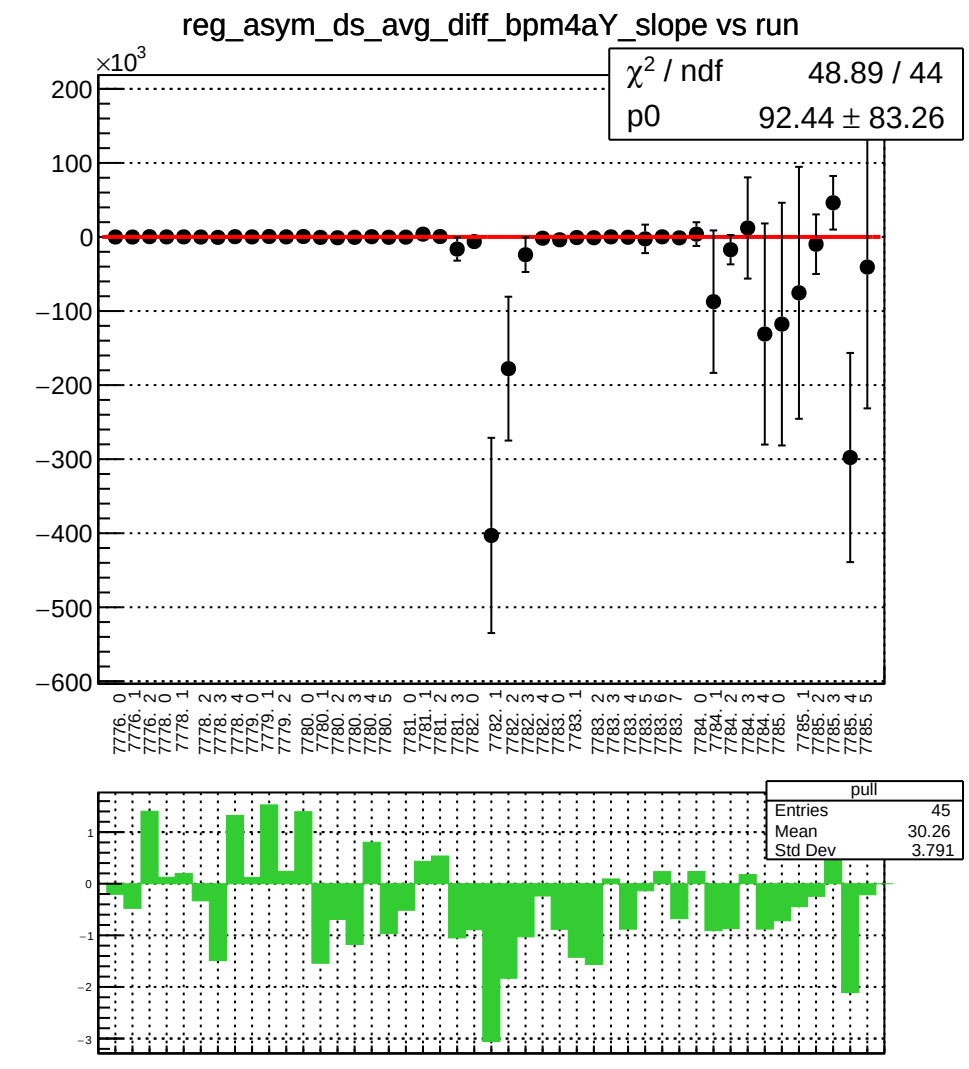

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.833 / 44
p0 −53.41 ± 3.148
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −13.69
Std Dev 22.21
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01296
Std Dev 0.4429
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

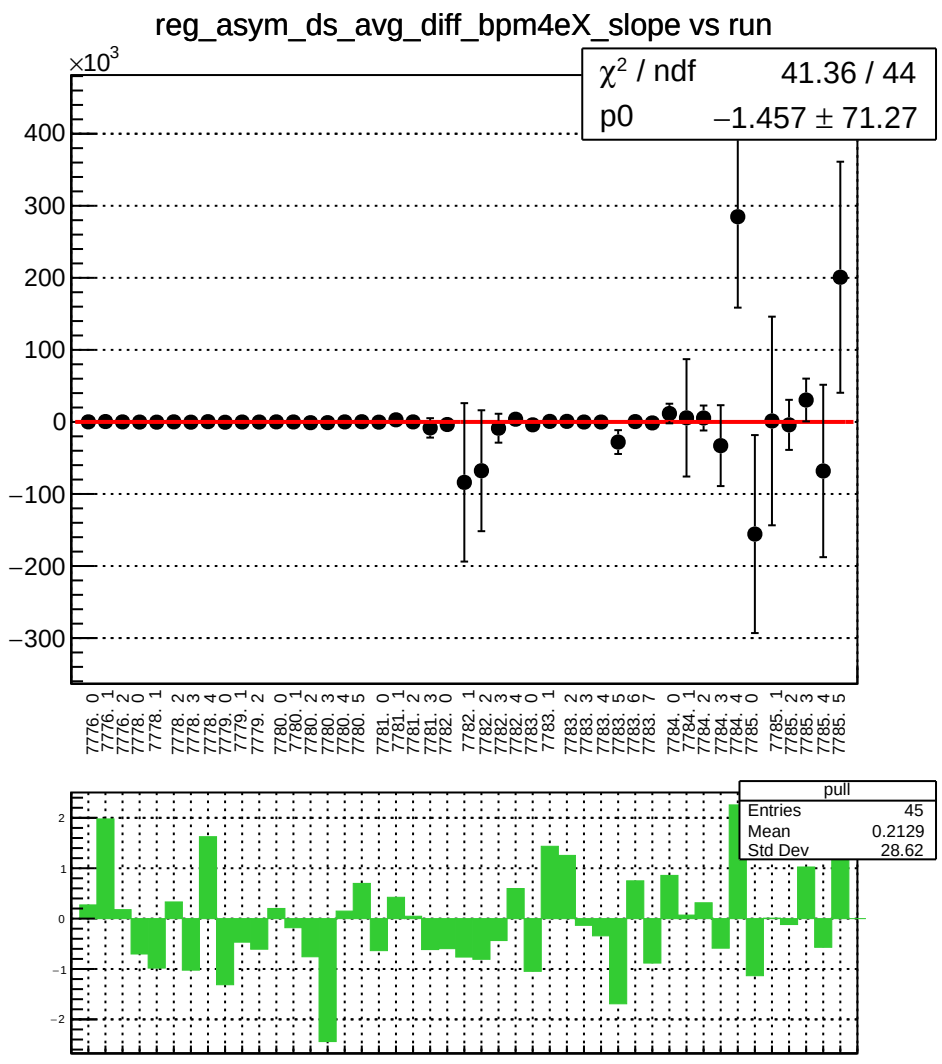

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.485 / 44
p0 9.108 ± 4.169
80
60
40
20
0
−20
−40
−60
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −141.5
Std Dev 166.9
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.005815
Std Dev 0.4591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

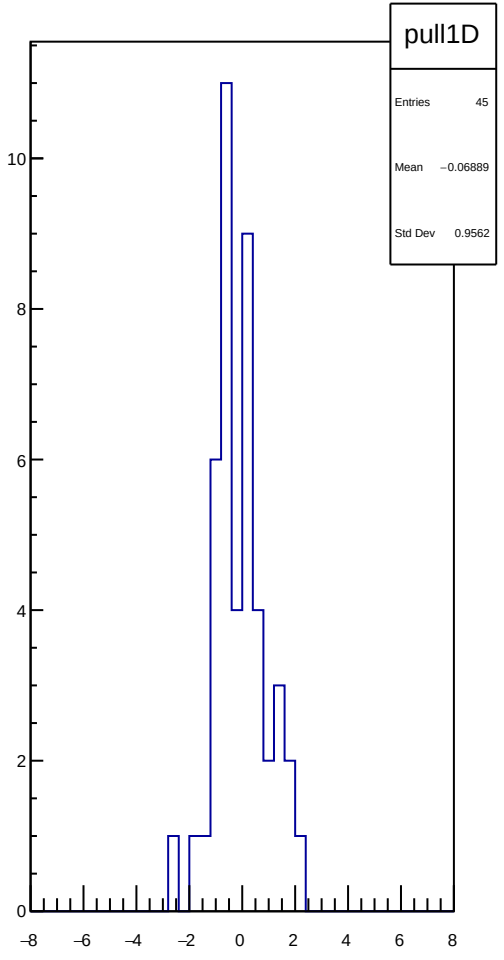

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 1081 / 44
p0 0.9592 ± 0.1313
pull
Entries 45
Mean −132.6
Std Dev 149.3
pull1D
Entries 45
Mean −1.992
Std Dev 0.5232

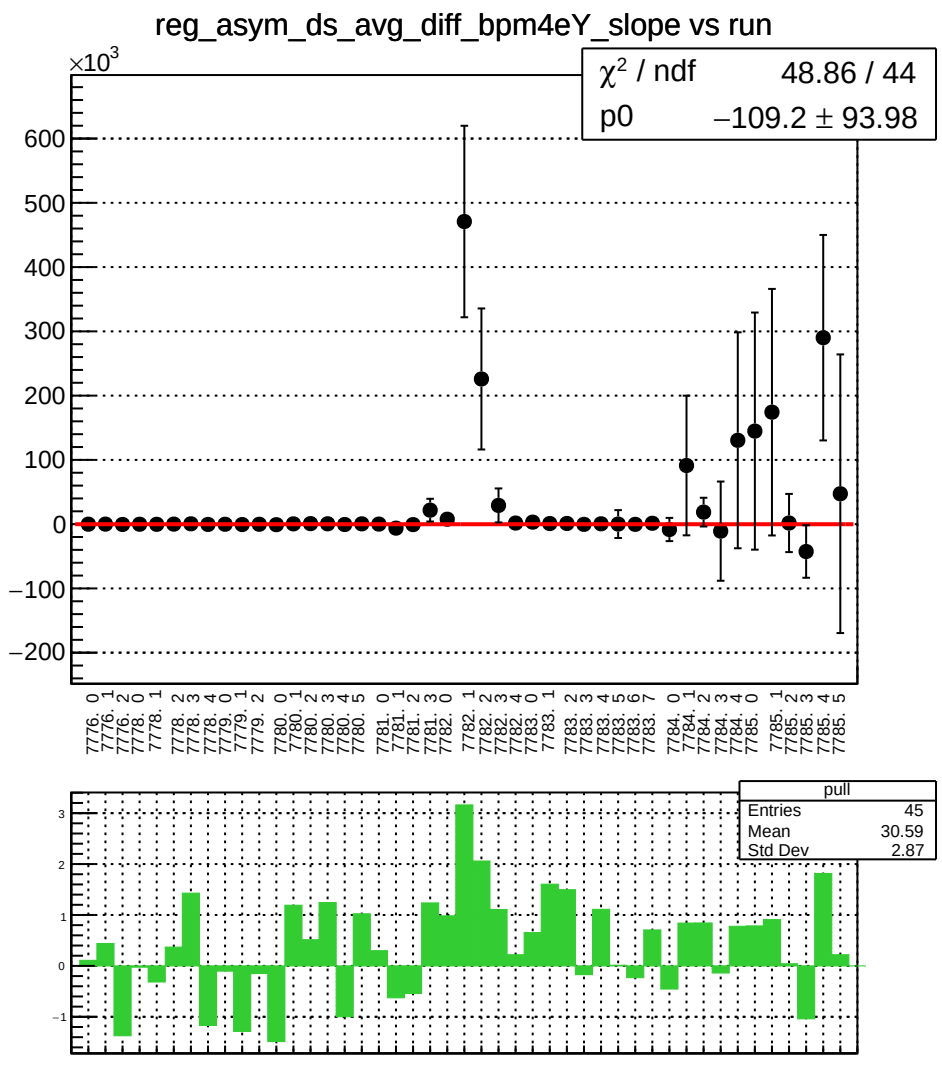

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 41.16 / 44
p0 −1.973 ± 82.44
pull
Entries 45
Mean 6.318
Std Dev 21.68

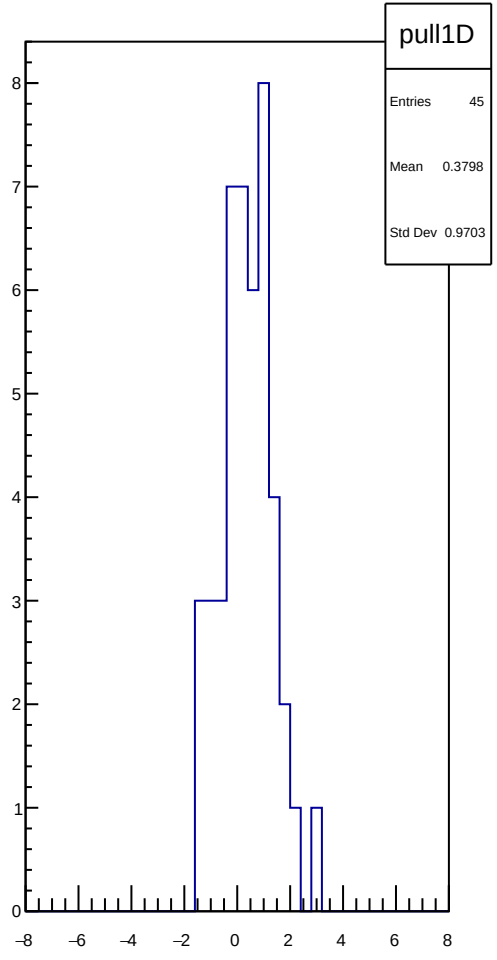

pull1D
Entries 45
Mean 0.08603
Std Dev 0.9525

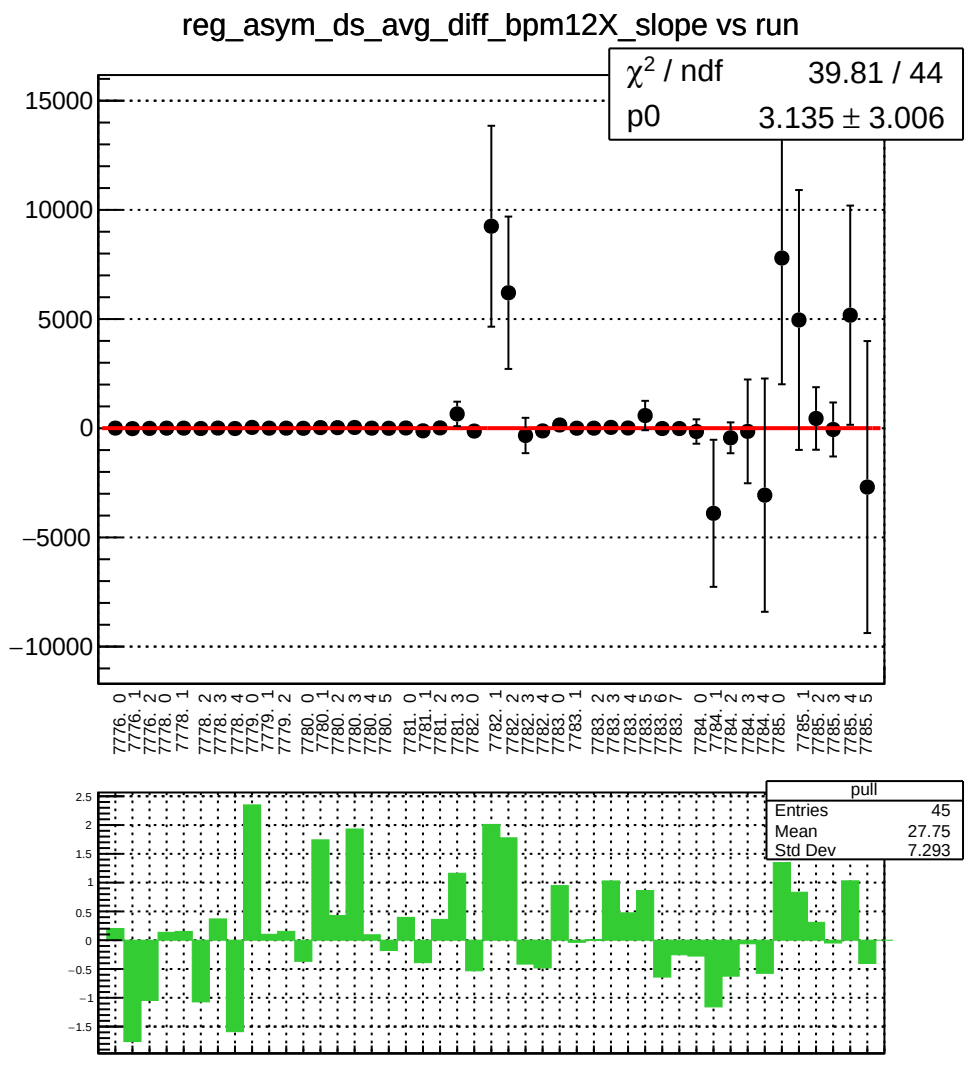

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 48.89 / 44
p0 92.44 ± 83.26
200
100
0
−100
−200
−300
−400
−500
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.26
Std Dev 3.791
1
0
−1
−2
−3
pull1D
Entries 45
Mean −0.3849
Std Dev 0.9687
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

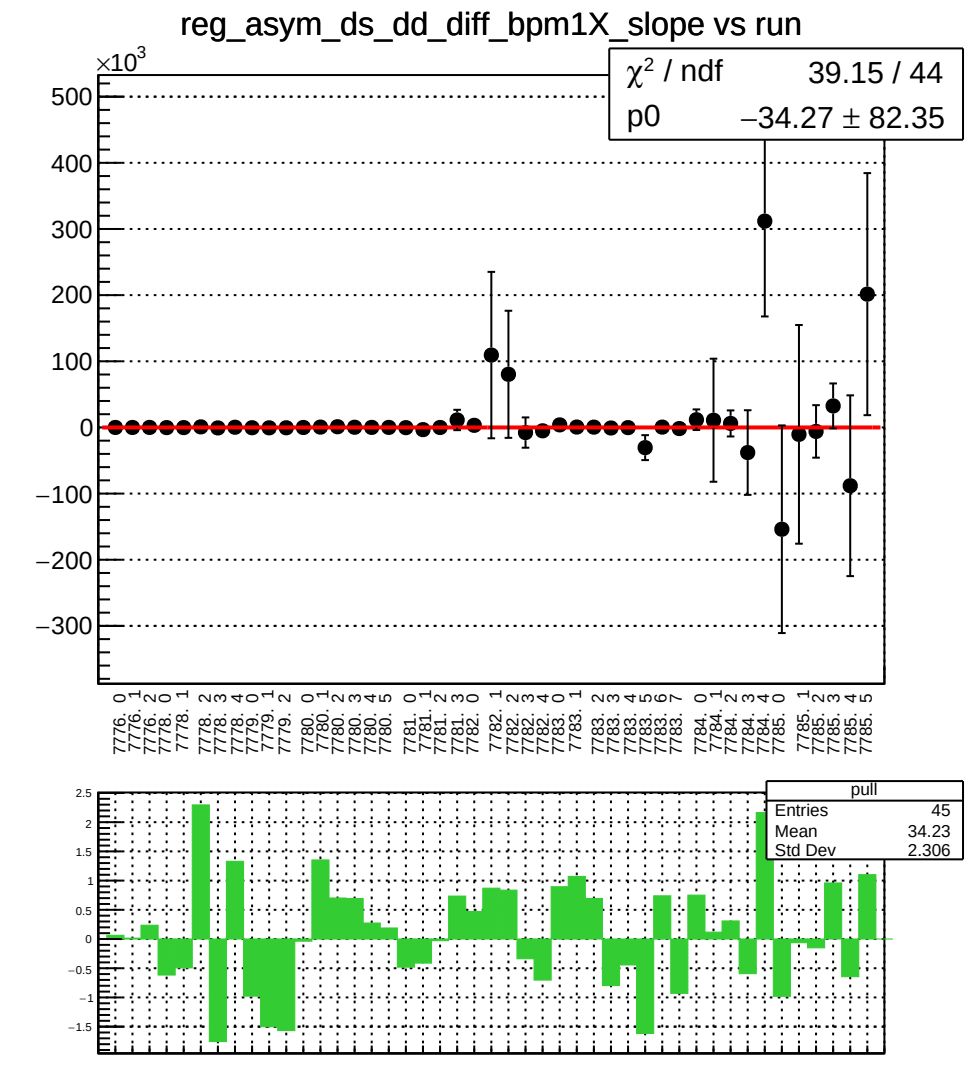

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 41.36 / 44
p0 −1.457 ± 71.27
400
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 0.2129
Std Dev 28.62
2
1
0
−1
−2

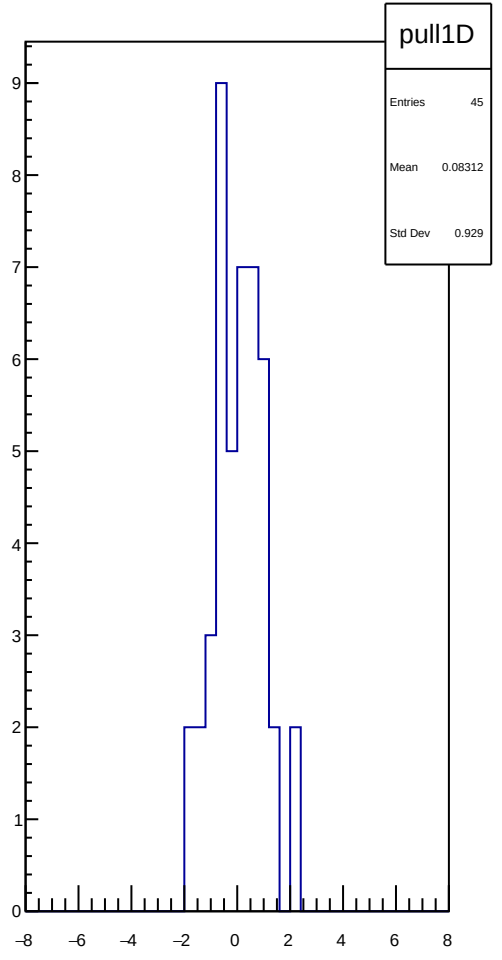

pull1D
Entries 45
Mean −0.06889
Std Dev 0.9562
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

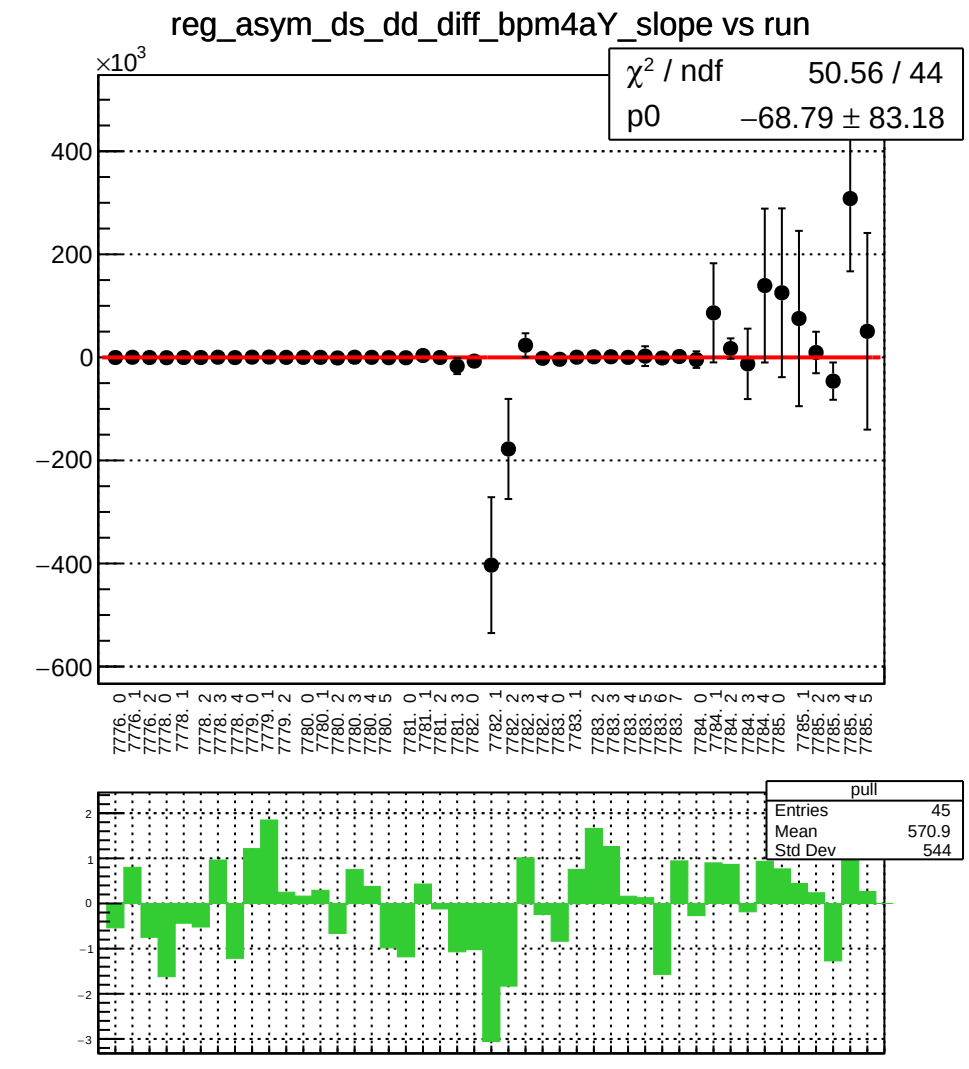

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 48.86 / 44
p0 −109.2 ± 93.98
600
500
400
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.59
Std Dev 2.87
3
2
1
0
−1

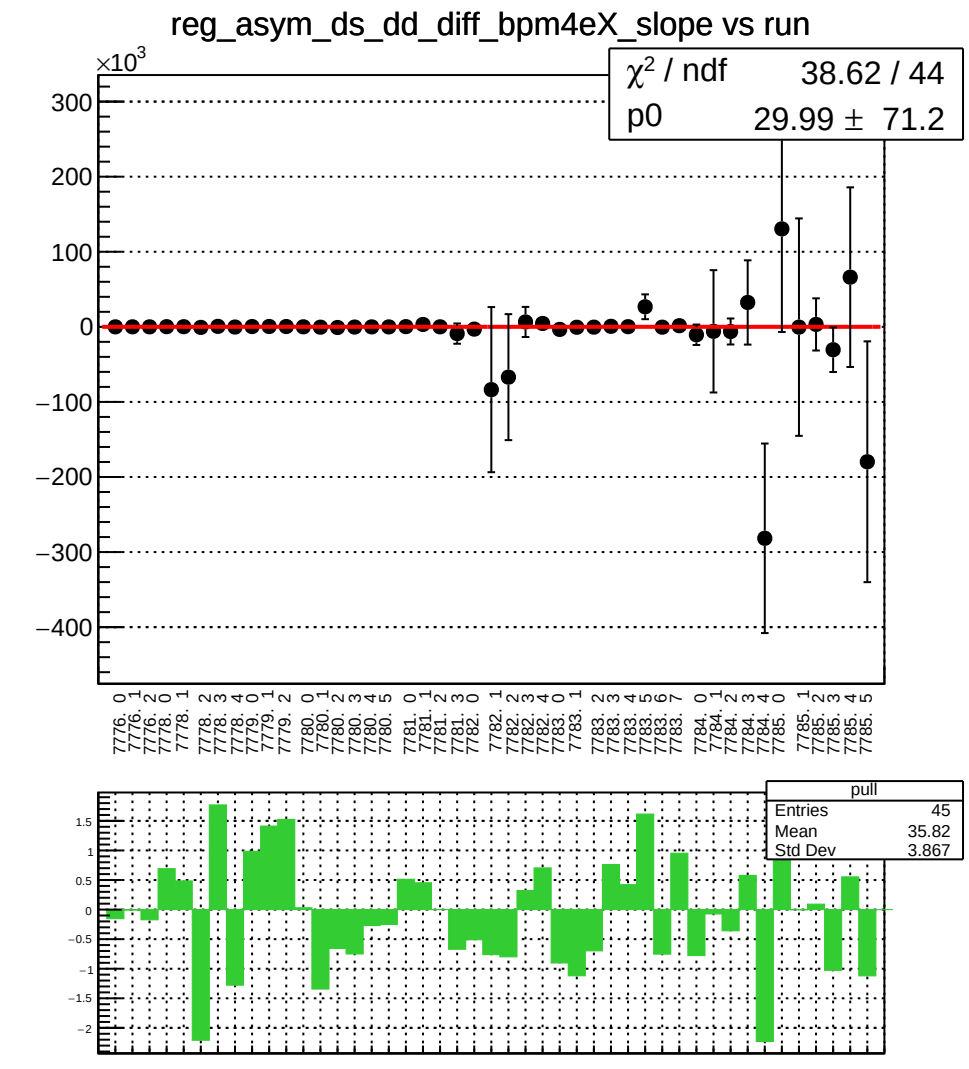

pull1D
Entries 45
Mean 0.3798
Std Dev 0.9703
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

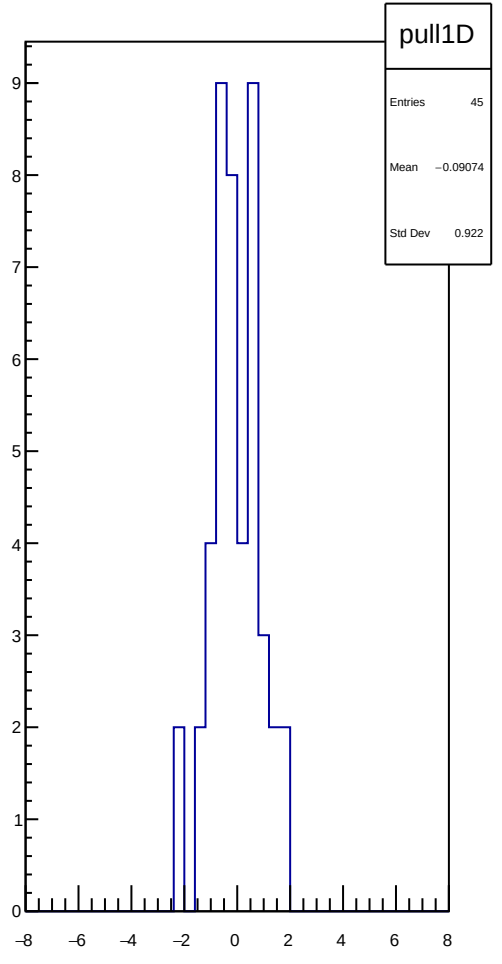

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 39.81 / 44
p0 3.135 ± 3.006
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 27.75
Std Dev 7.293
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.1848
Std Dev 0.9222
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

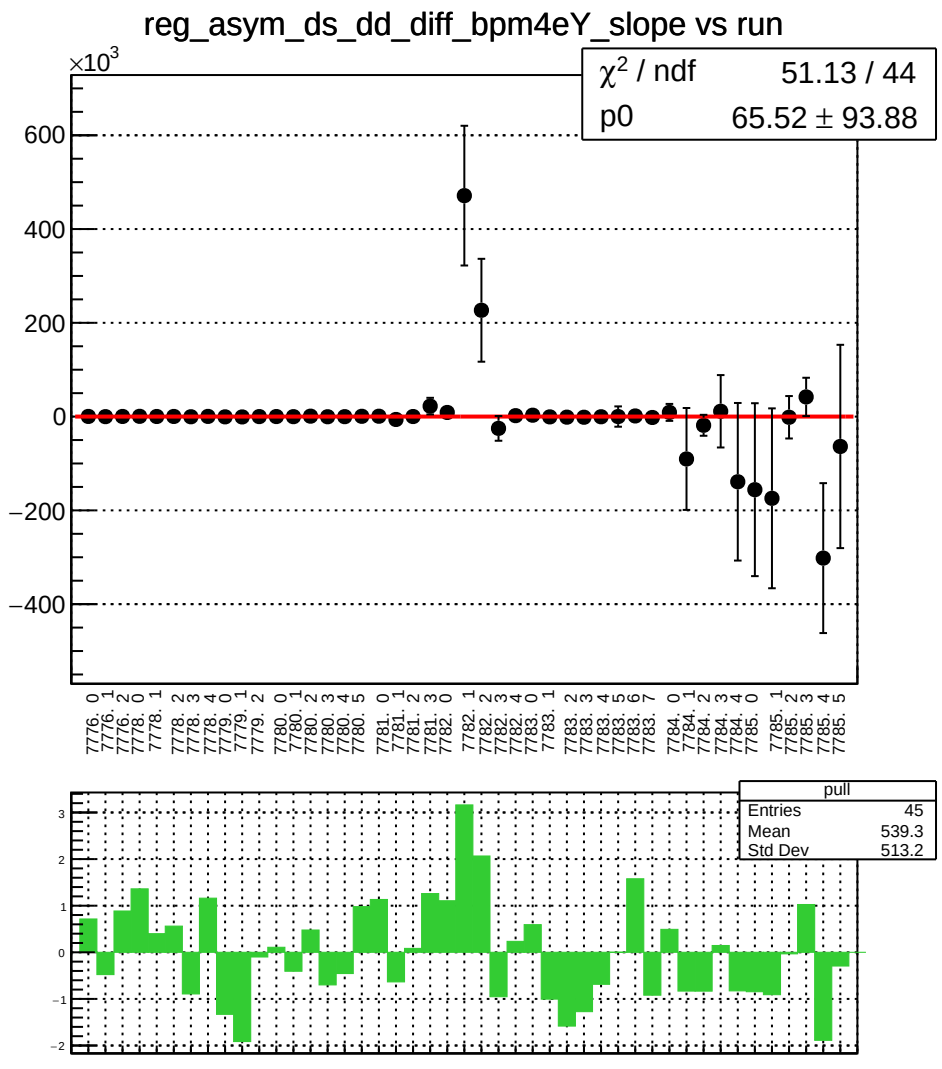

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 39.15 / 44
p0 −34.27 ± 82.35
500
400
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 34.23
Std Dev 2.306
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

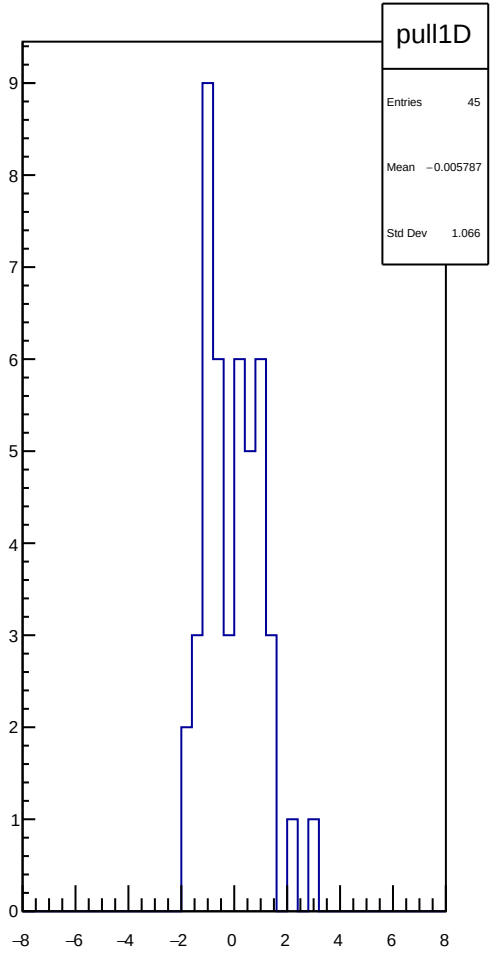

pull1D
Entries 45
Mean 0.08312
Std Dev 0.929
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

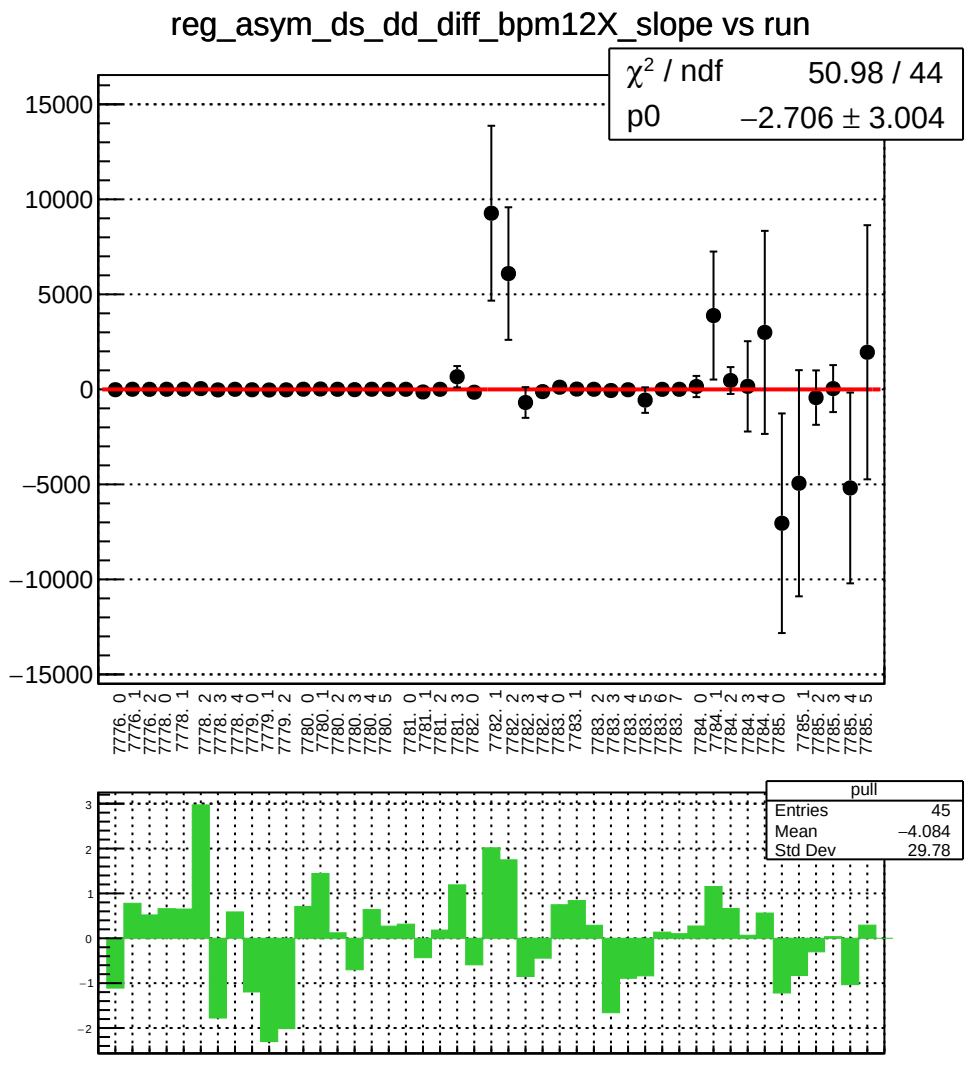

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 50.56 / 44
p0 −68.79 ± 83.18
400
200
0
−200
−400
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 570.9
Std Dev 544
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.004979
Std Dev 1.06
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

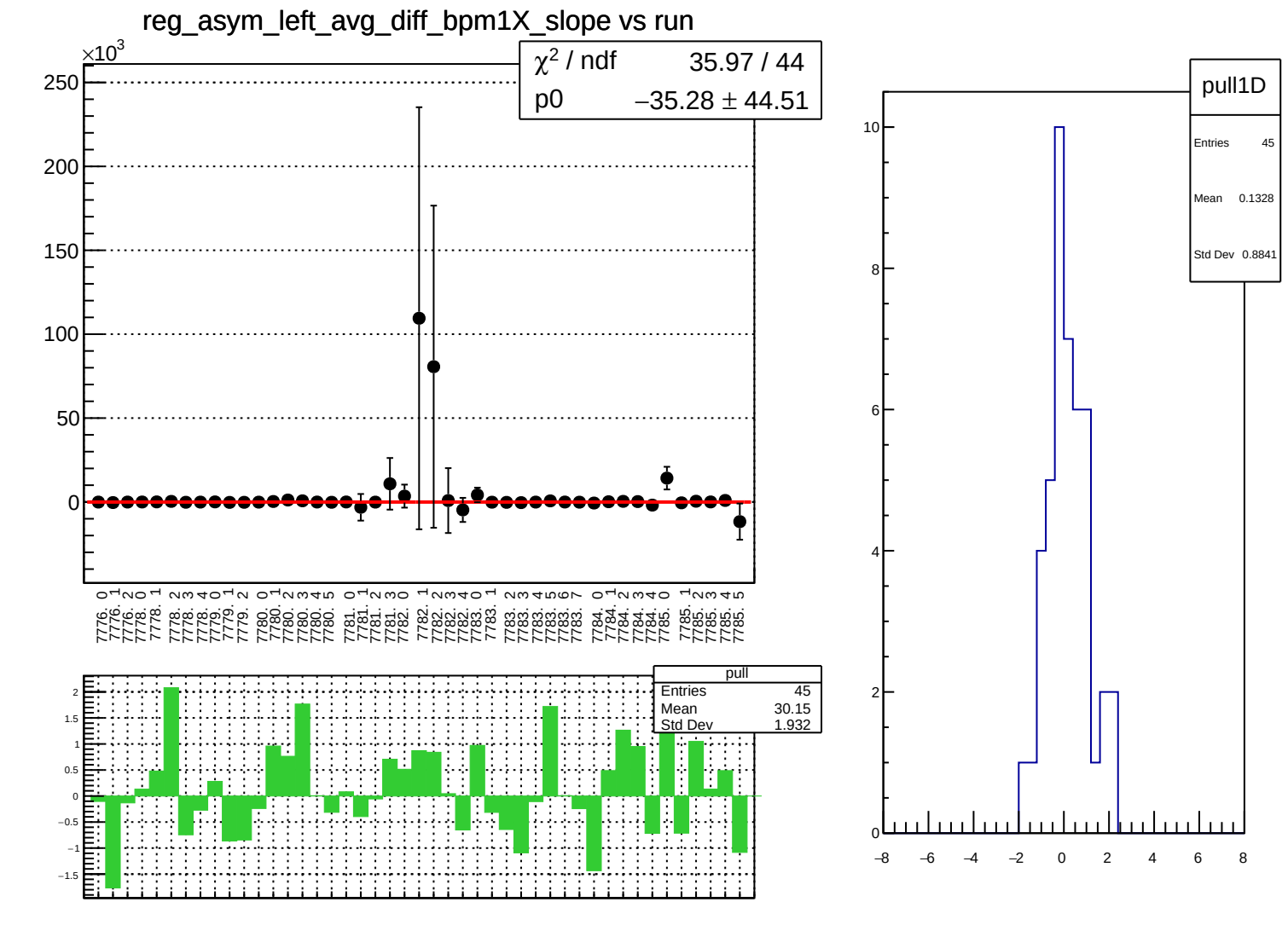

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 38.62 / 44
p0 29.99 ± 71.2
pull
Entries 45
Mean 35.82
Std Dev 3.867

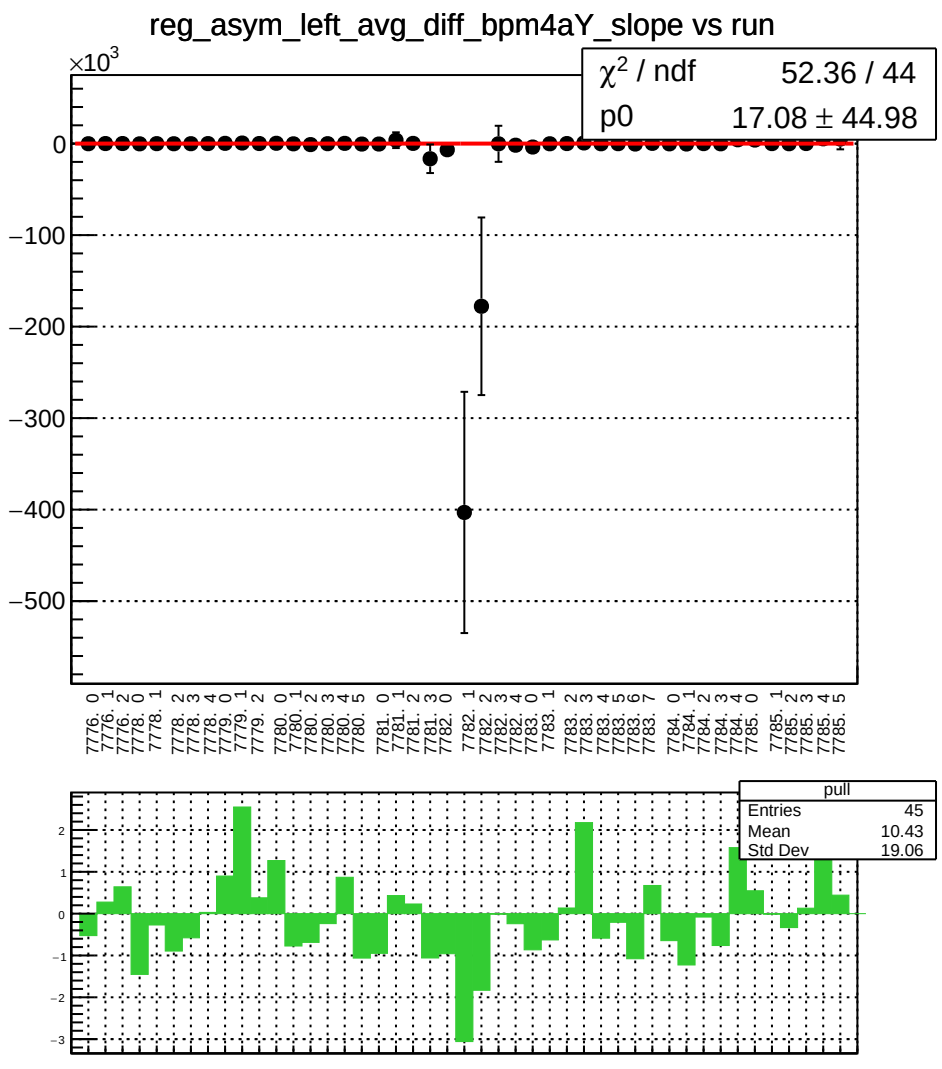

pull1D
Entries 45
Mean −0.09074
Std Dev 0.922

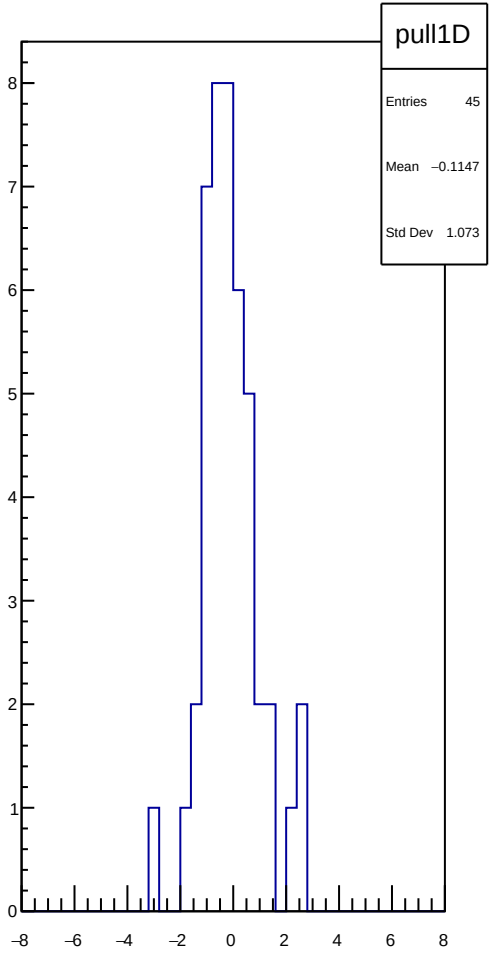

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 51.13 / 44
p0 65.52 ± 93.88
600
400
200
0
−200
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 539.3
Std Dev 513.2
3
2
1
0
−1
−2

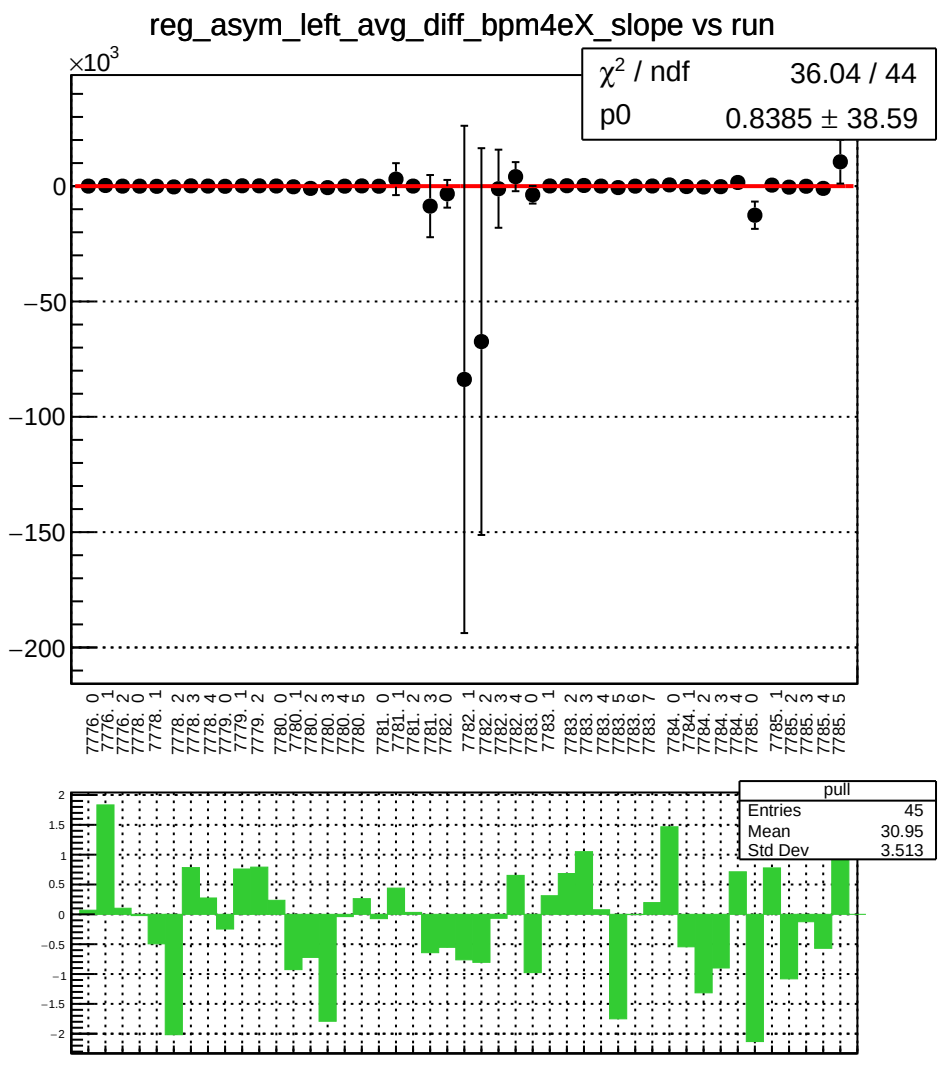

pull1D
Entries 45
Mean −0.005787
Std Dev 1.066
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

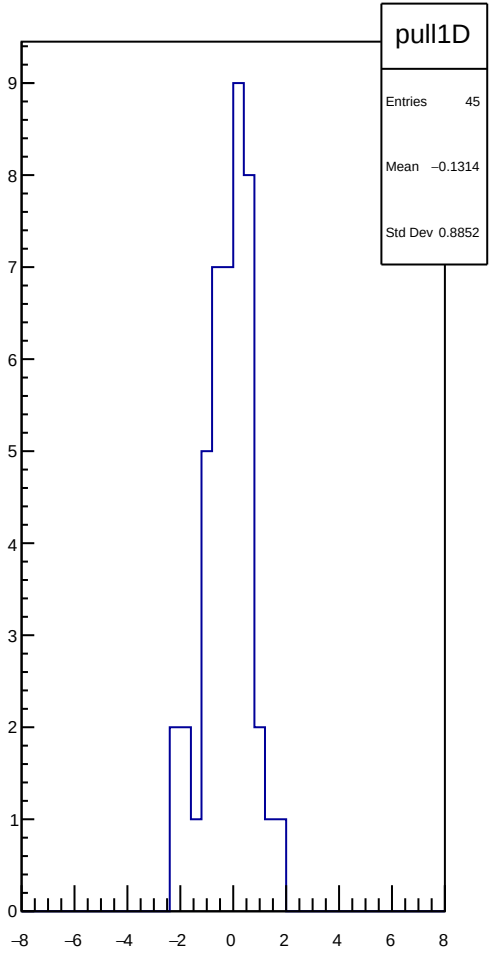

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 50.98 / 44
p0 −2.706 ± 3.004
15000
10000
5000
0
−5000
−10000
−15000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −4.084
Std Dev 29.78
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.03949
Std Dev 1.064
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

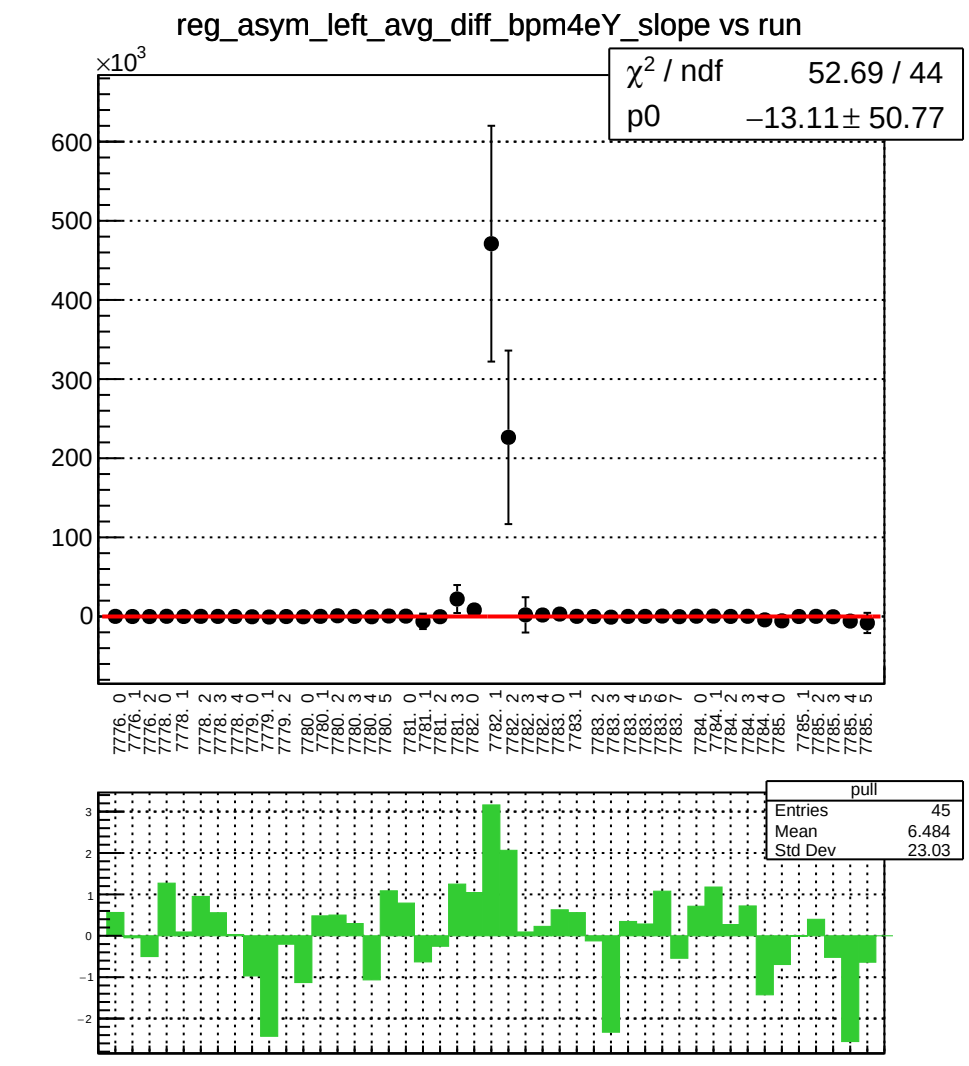

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.97 / 44
p0 −35.28 ± 44.51
250
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.15
Std Dev 1.932
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.1328
Std Dev 0.8841
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

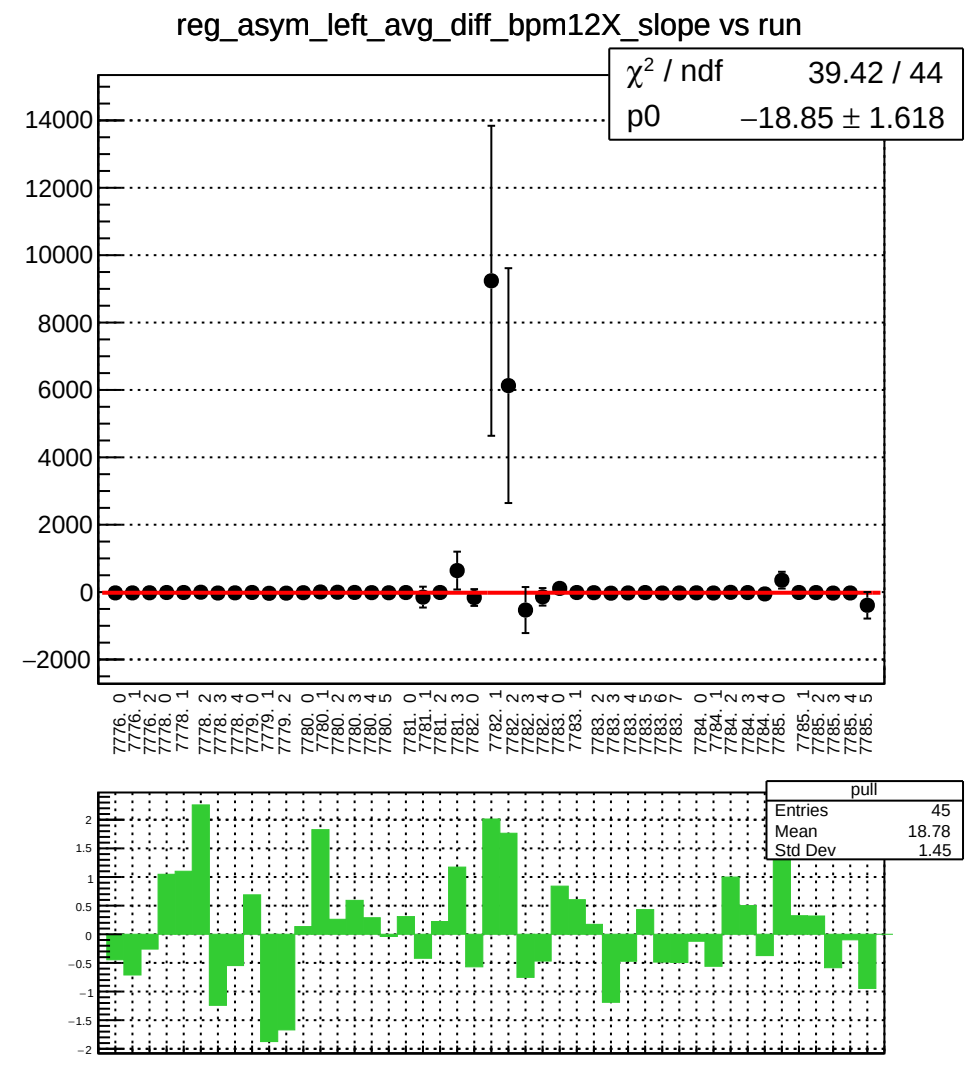

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 52.36 / 44
p0 17.08 ± 44.98
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 10.43
Std Dev 19.06
2
1
0
−1
−2
−3

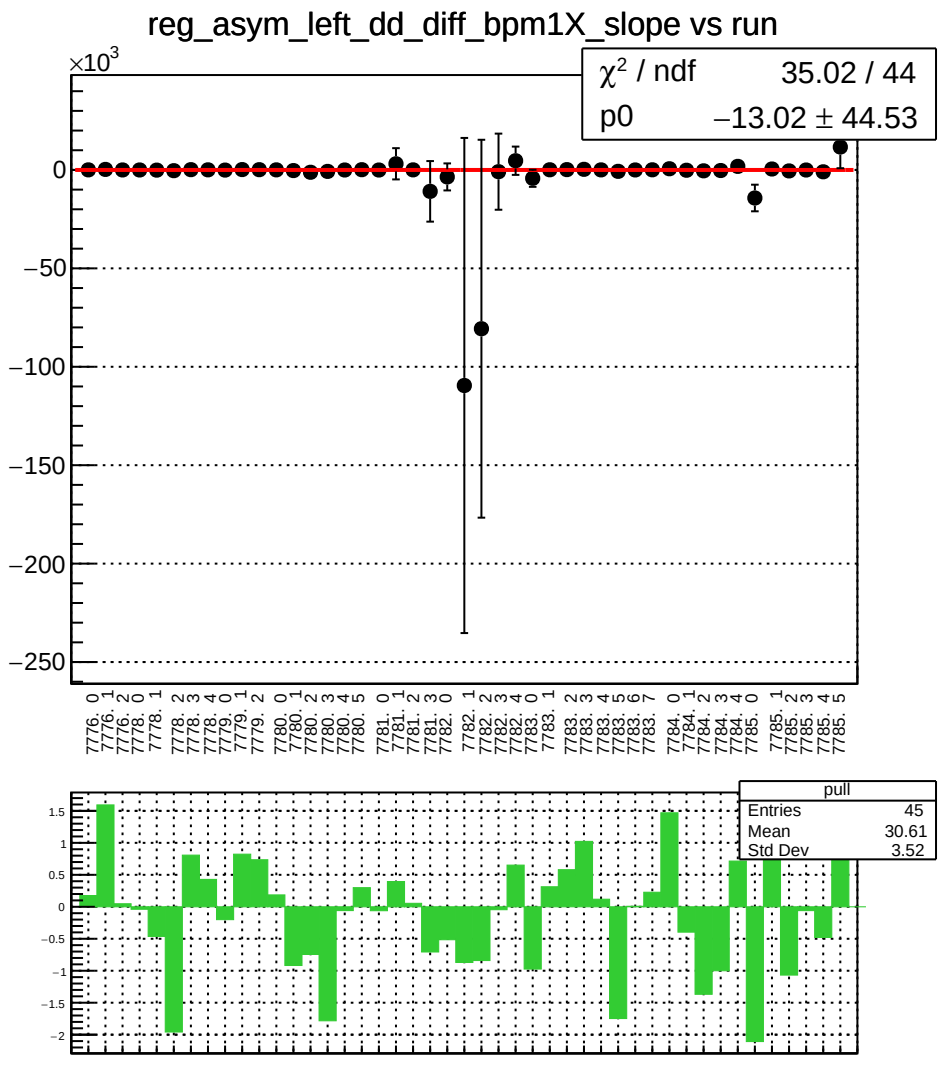

pull1D
Entries 45
Mean −0.1147
Std Dev 1.073
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

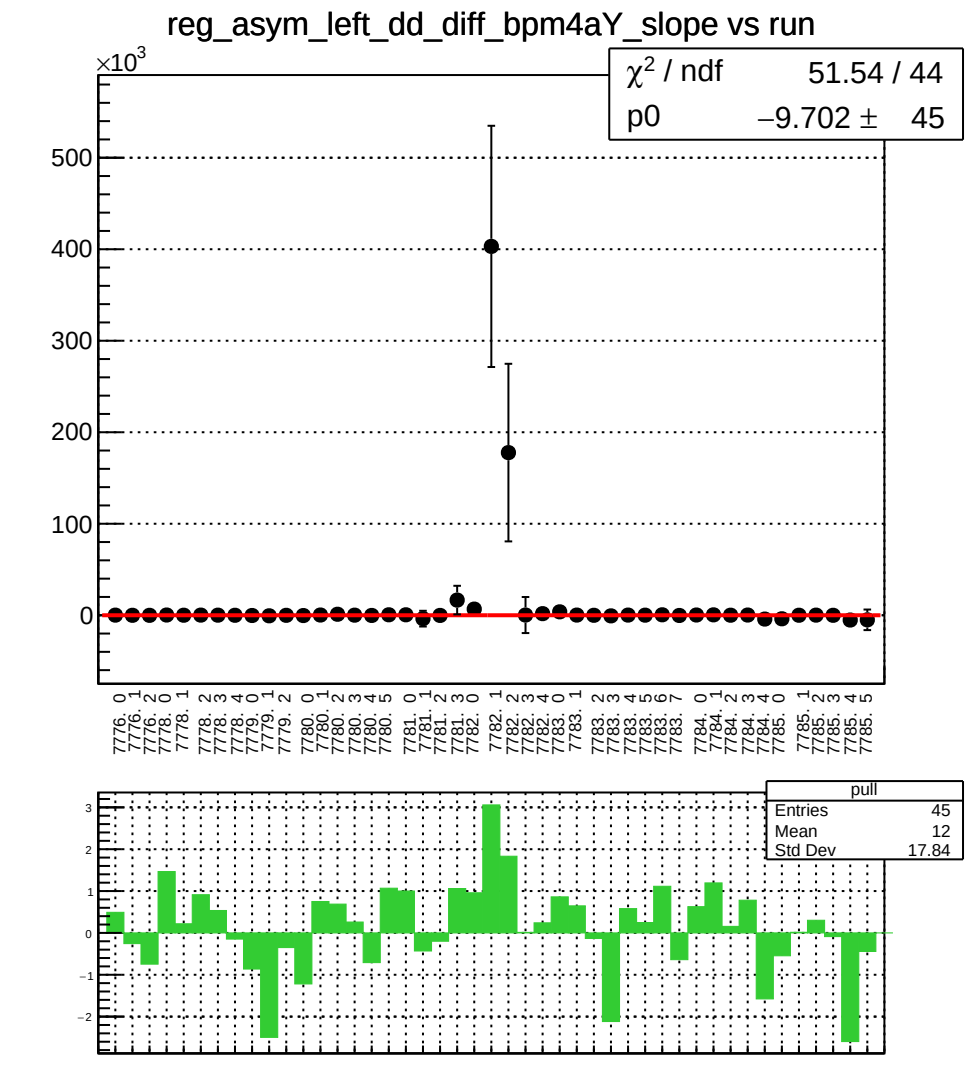

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 36.04 / 44
p0 0.8385 ± 38.59
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.95
Std Dev 3.513
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

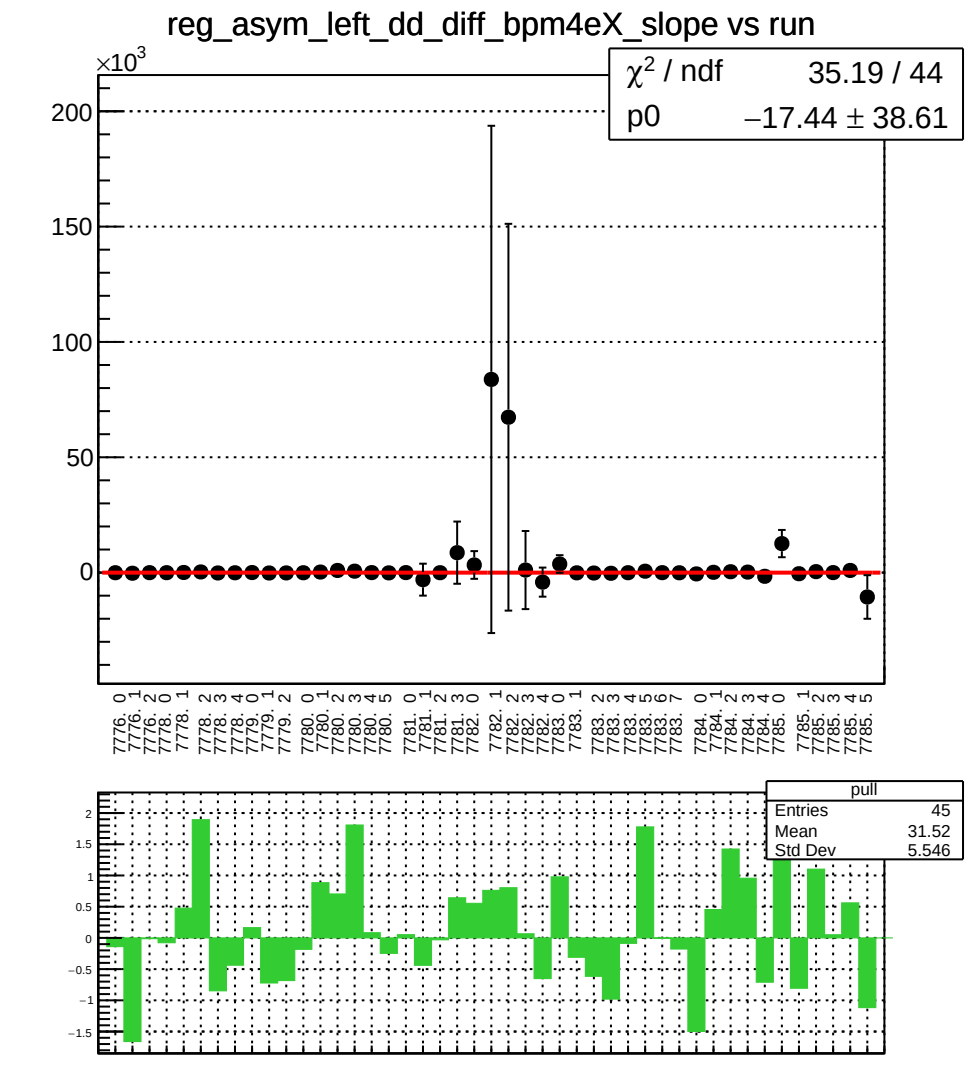

pull1D
Entries 45
Mean −0.1314
Std Dev 0.8852
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

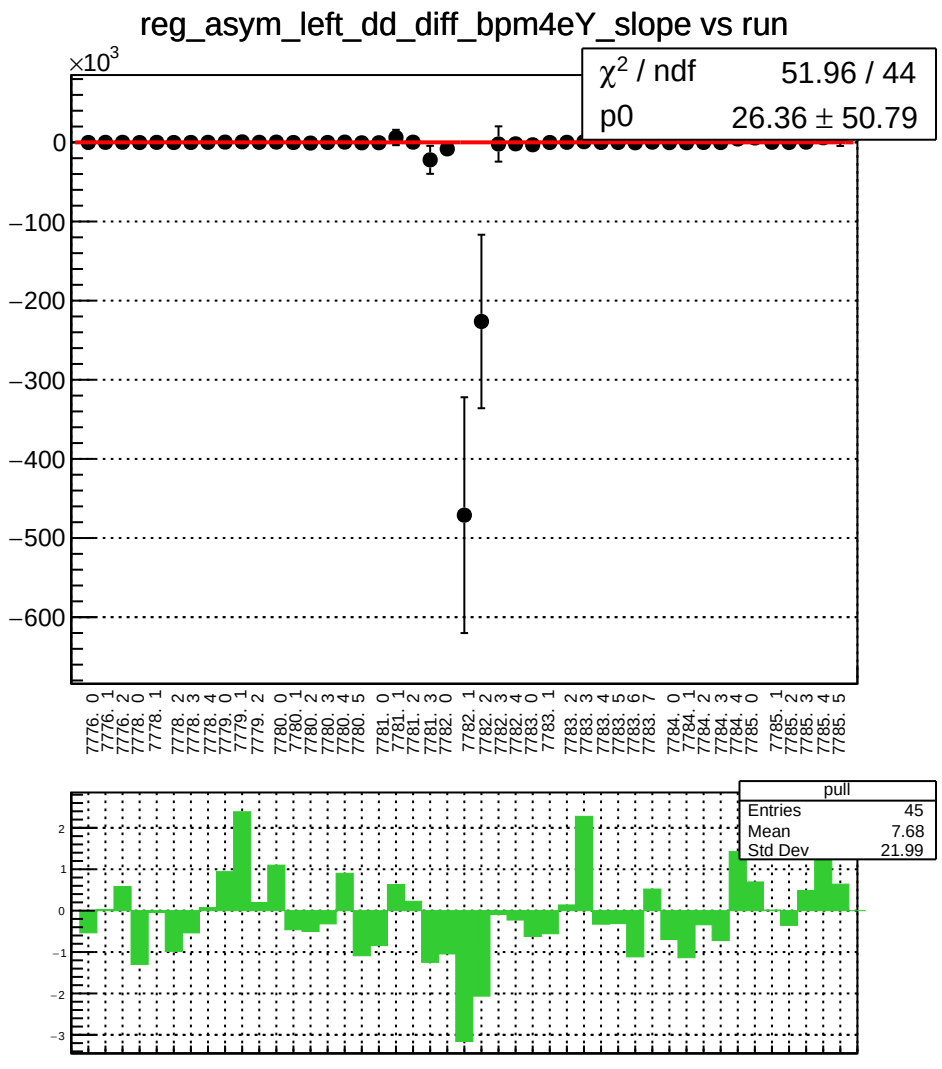

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 52.69 / 44
p0 −13.11 ± 50.77
600
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 6.484
Std Dev 23.03
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.1014
Std Dev 1.077
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

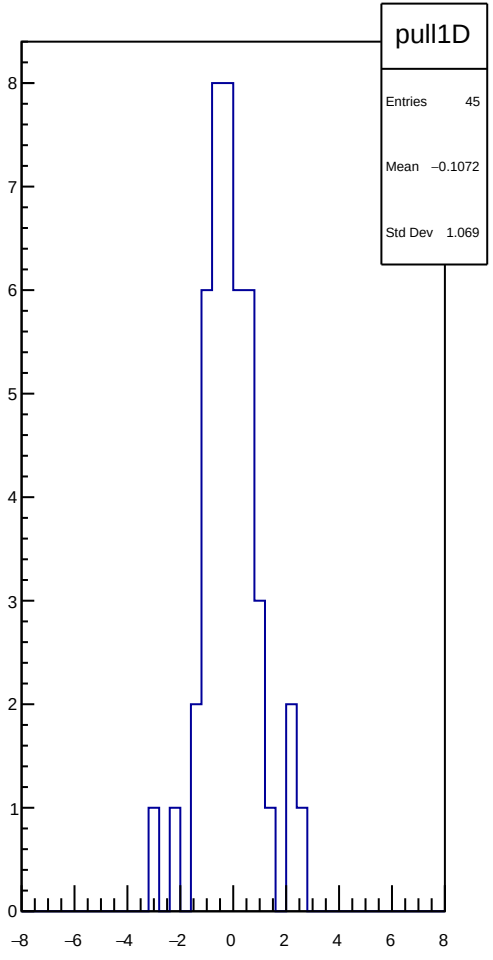

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 39.42 / 44
p0 −18.85 ± 1.618
14000
12000
10000
8000
6000
4000
2000
0
−2000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 18.78
Std Dev 1.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.1126
Std Dev 0.9291
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

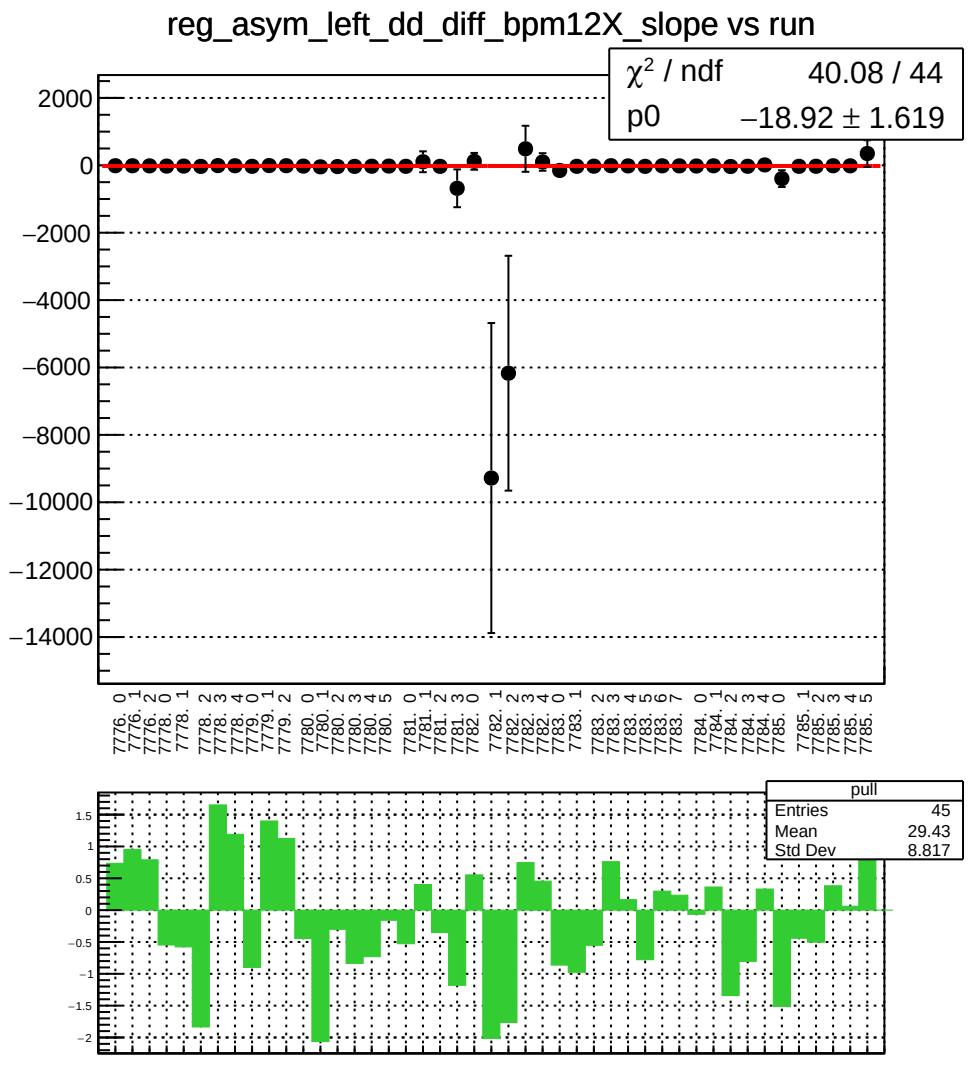

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.02 / 44
p0 −13.02 ± 44.53
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 30.61
Std Dev 3.52
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.1317
Std Dev 0.8723
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

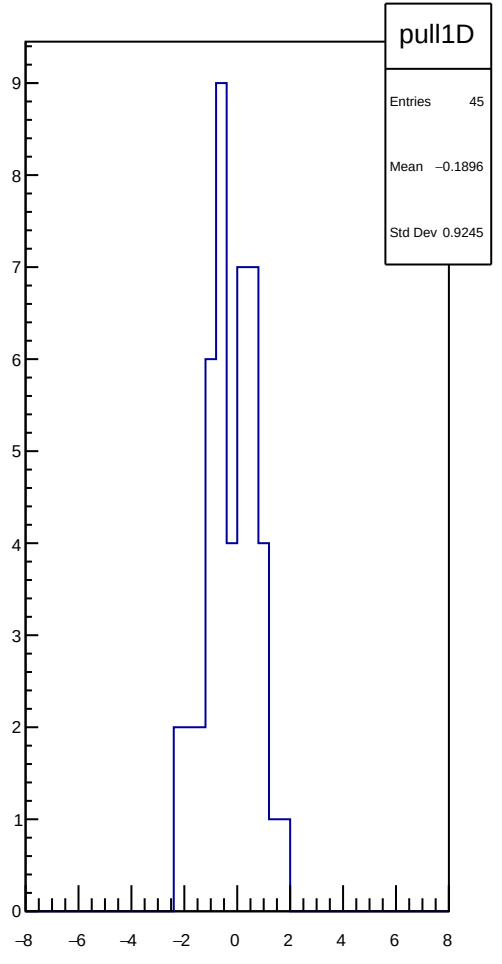

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 51.54 / 44
p0 −9.702 ± 45
500
400
300
200
100
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 12
Std Dev 17.84
3
2
1
0
−1
−2
pull1D
Entries 45
Mean 0.1227
Std Dev 1.063
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

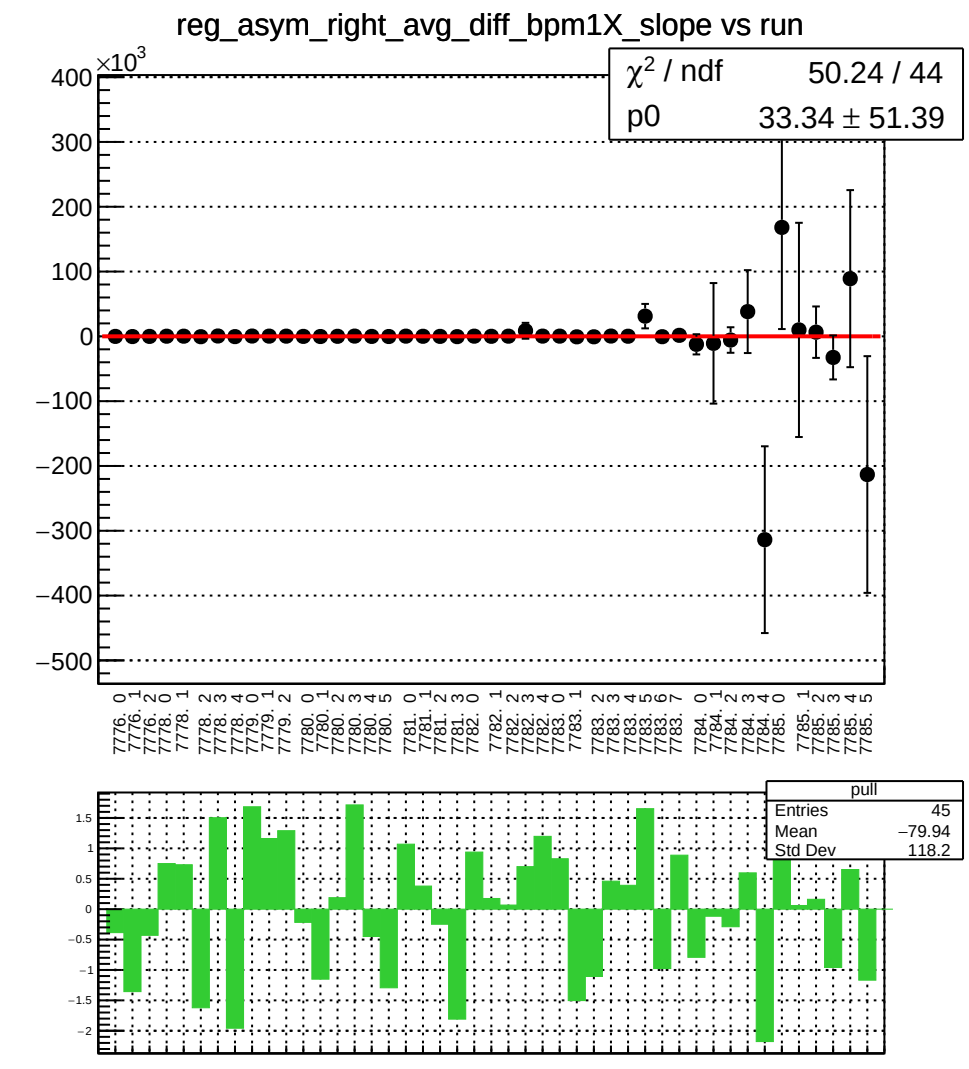

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 35.19 / 44
p0 −17.44 ± 38.61
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 31.52
Std Dev 5.546
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.1308
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

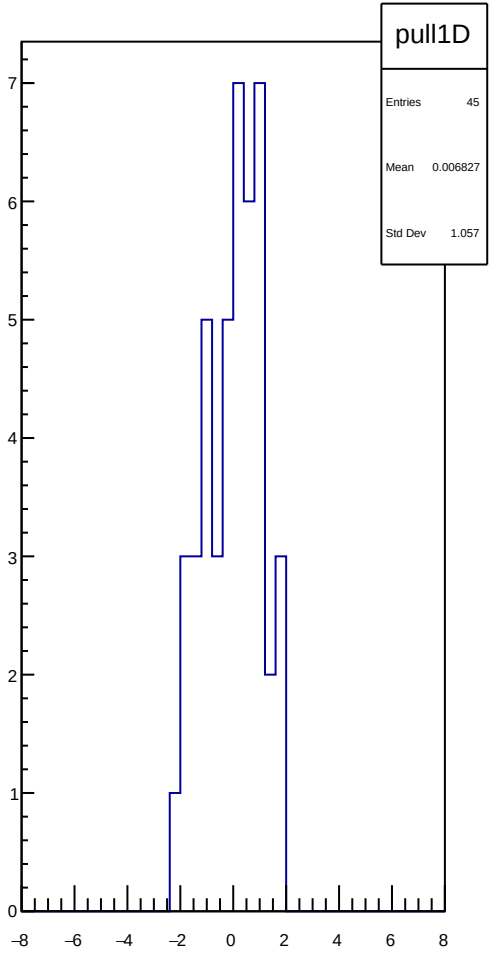

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 51.96 / 44
p0 26.36 ± 50.79
×10³
0
−100
−200
−300
−400
−500
−600
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 7.68
Std Dev 21.99
2
1
0
−1
−2
−3

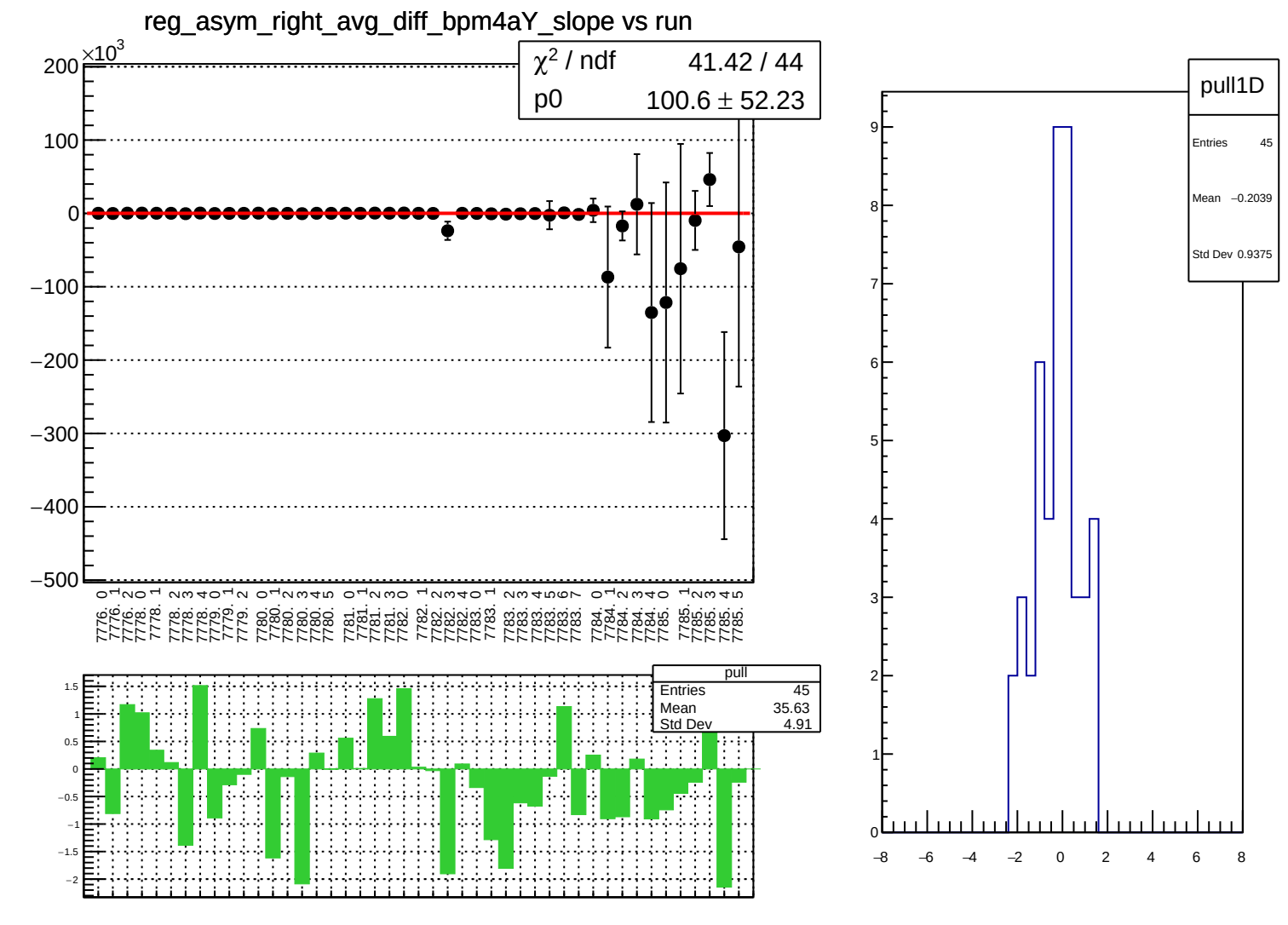

pull1D
Entries 45
Mean −0.1072
Std Dev 1.069
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

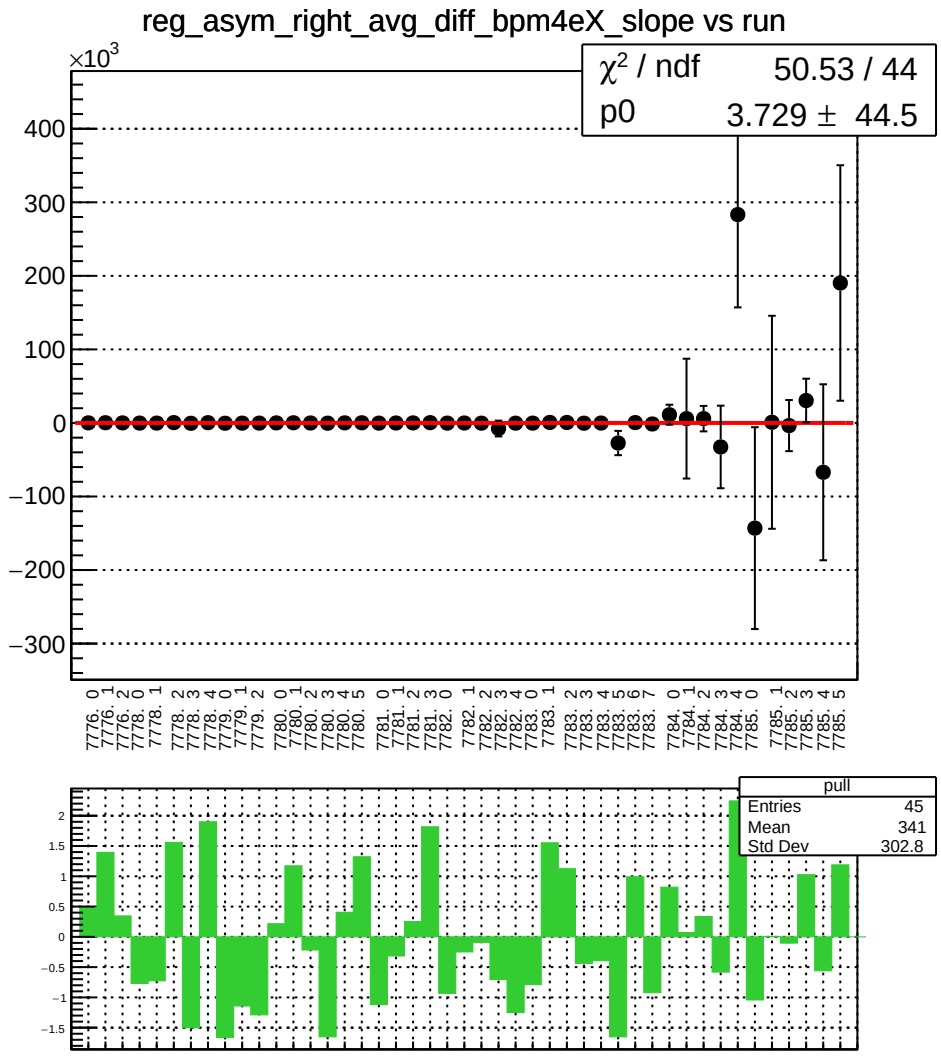

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 40.08 / 44
p0 −18.92 ± 1.619
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
−14000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 29.43
Std Dev 8.817
1.5
1
0.5
0
−0.5
−1
−1.5
−2

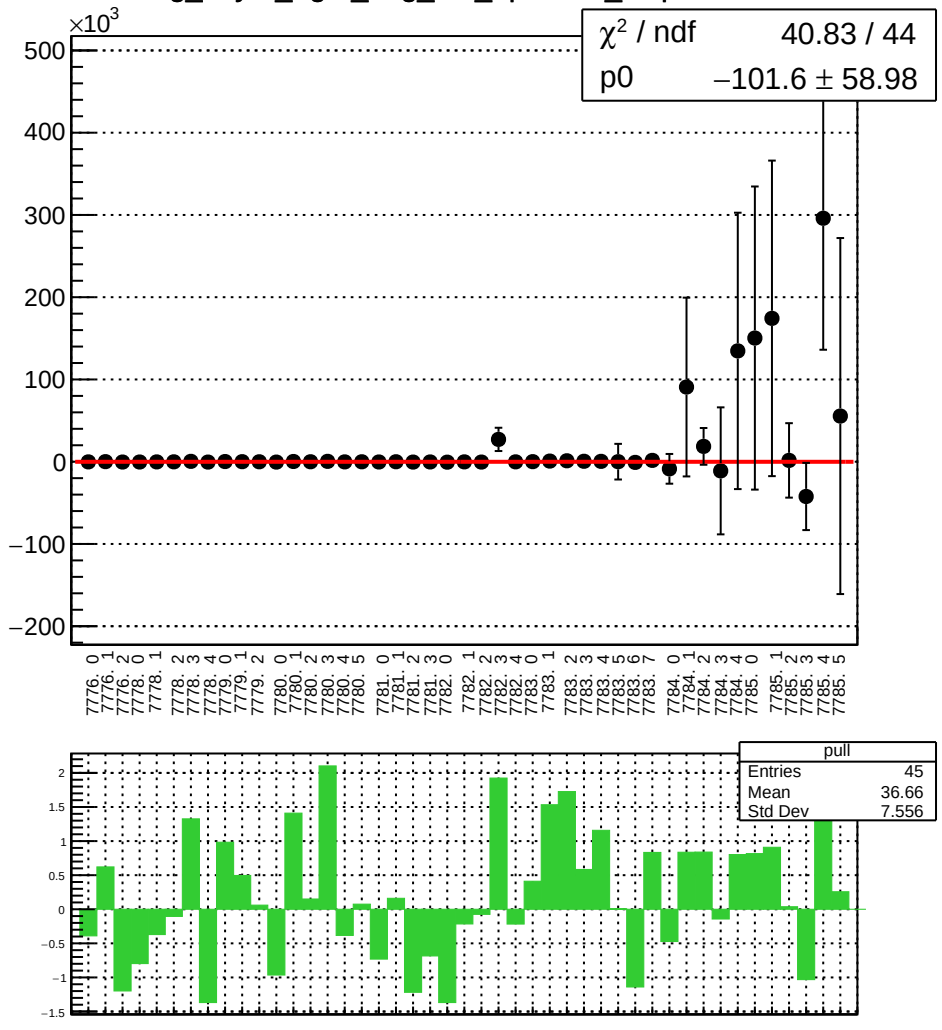

pull1D
Entries 45
Mean −0.1896
Std Dev 0.9245
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

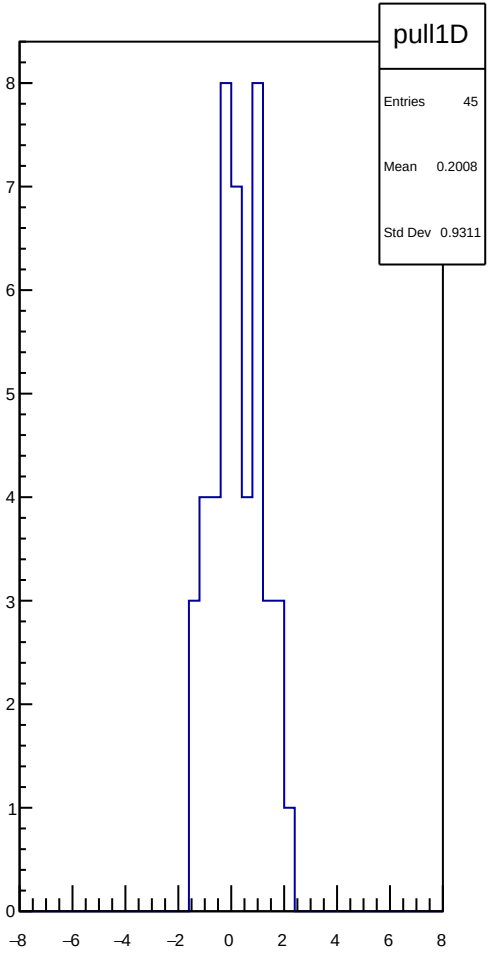

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 50.24 / 44
p0 33.34 ± 51.39
pull
Entries 45
Mean −79.94
Std Dev 118.2

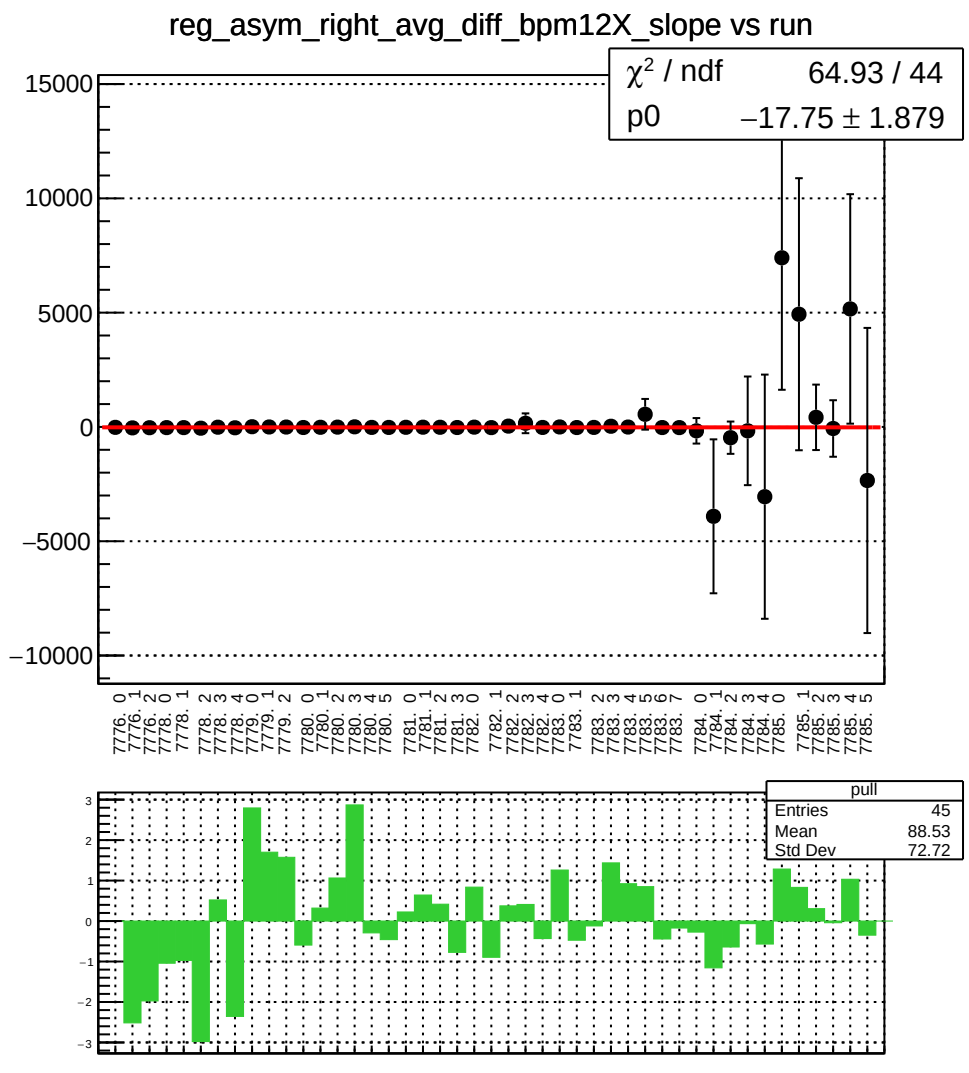

pull1D
Entries 45
Mean 0.006827
Std Dev 1.057

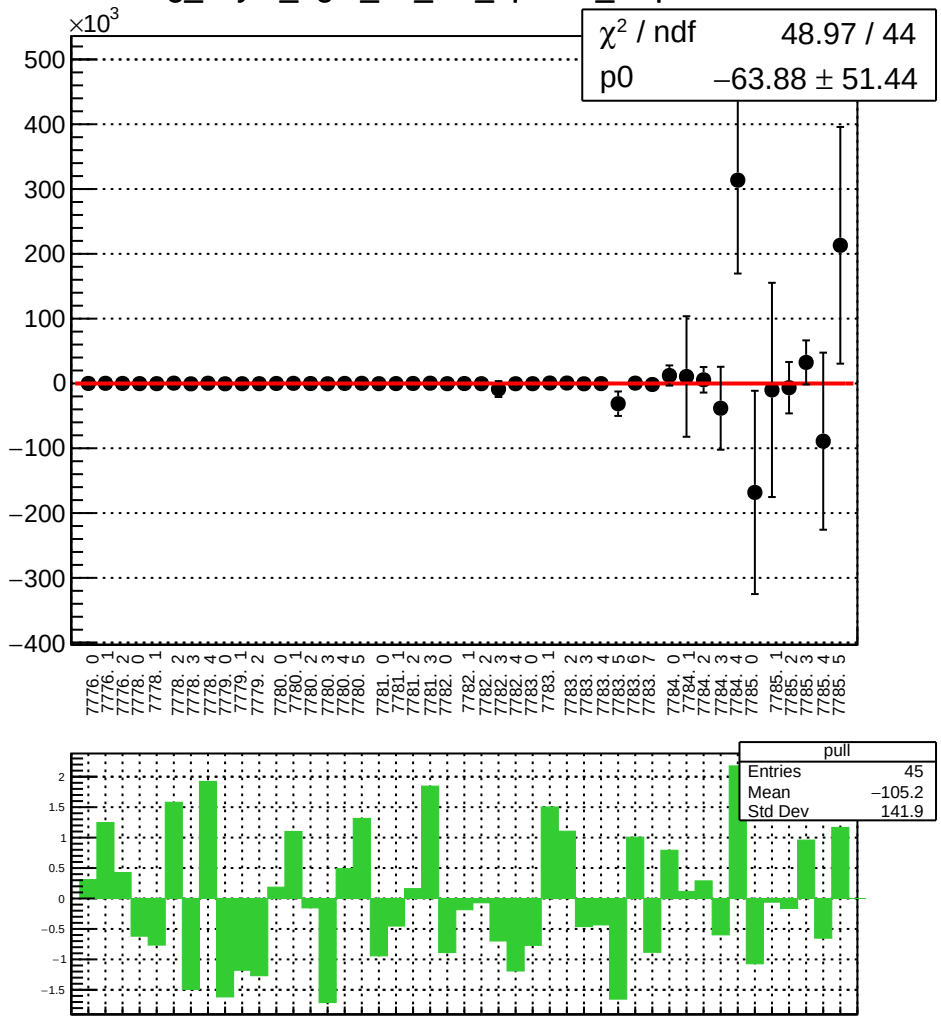

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 41.42 / 44
p0 100.6 ± 52.23
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 35.63
Std Dev 4.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.2039
Std Dev 0.9375
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

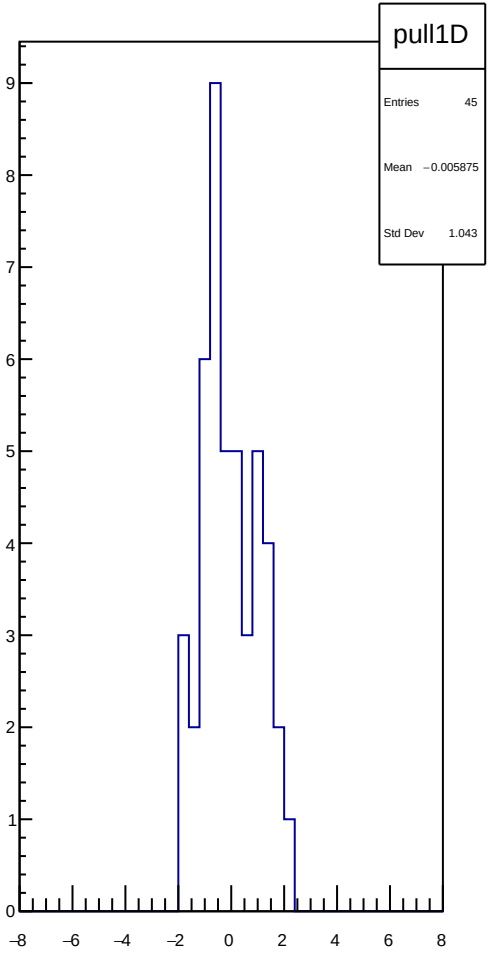

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.53 / 44
p0 3.729 ± 44.5
×10³
400
300
200
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 341
Std Dev 302.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean 0.002788
Std Dev 1.06
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

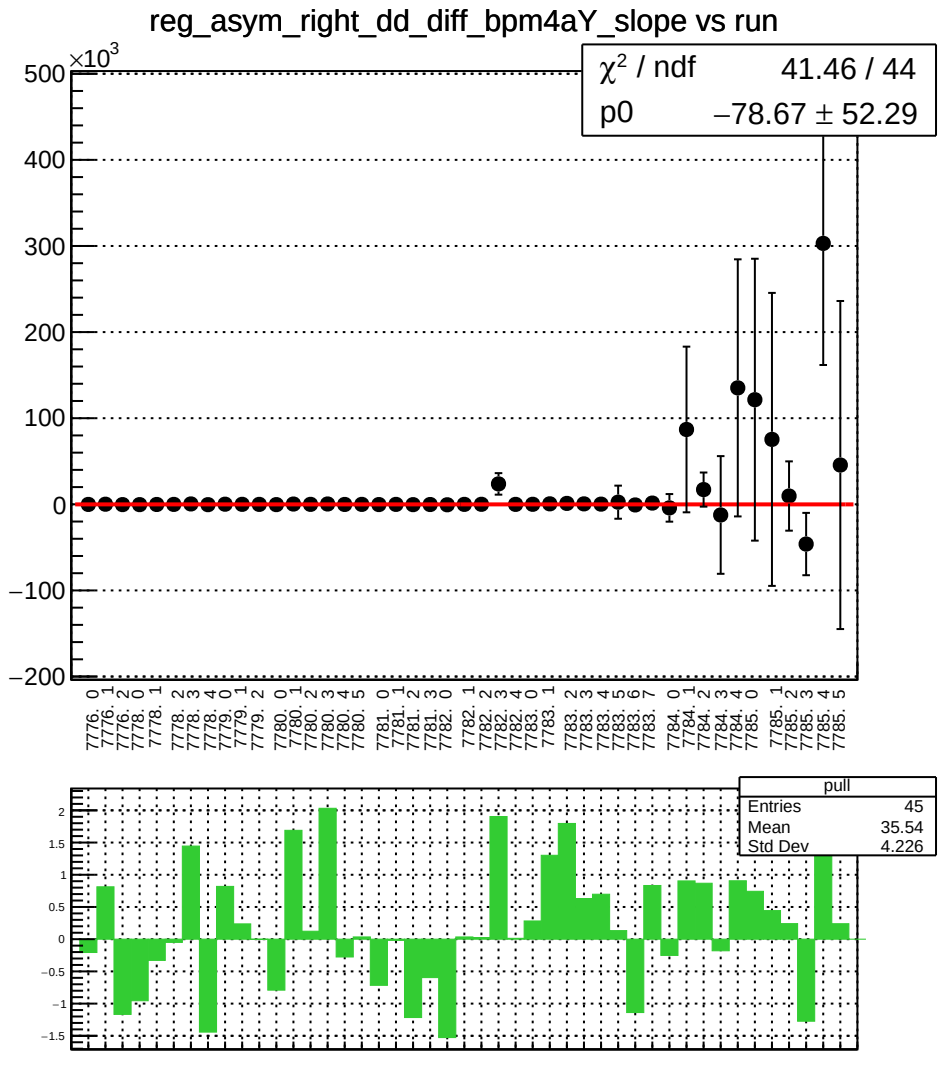

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 40.83 / 44
p0 −101.6 ± 58.98
pull
Entries 45
Mean 36.66
Std Dev 7.556

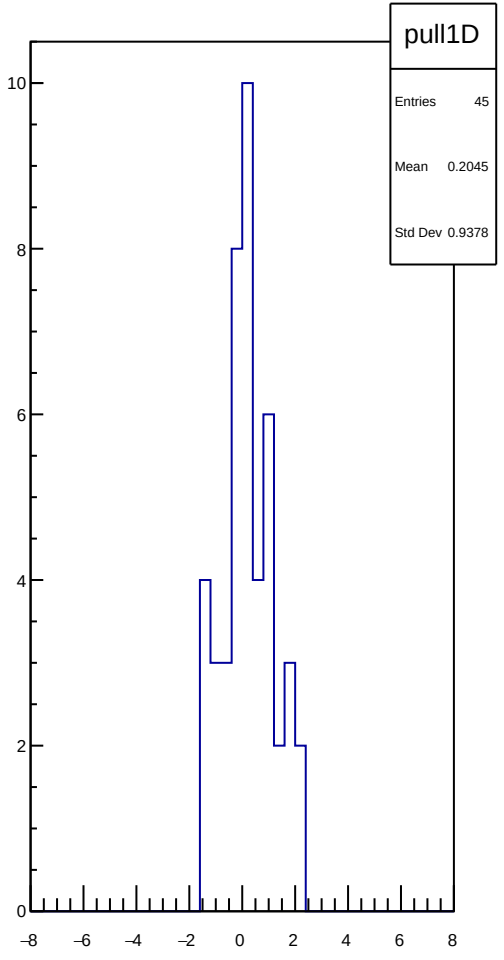

pull1D
Entries 45
Mean 0.2008
Std Dev 0.9311

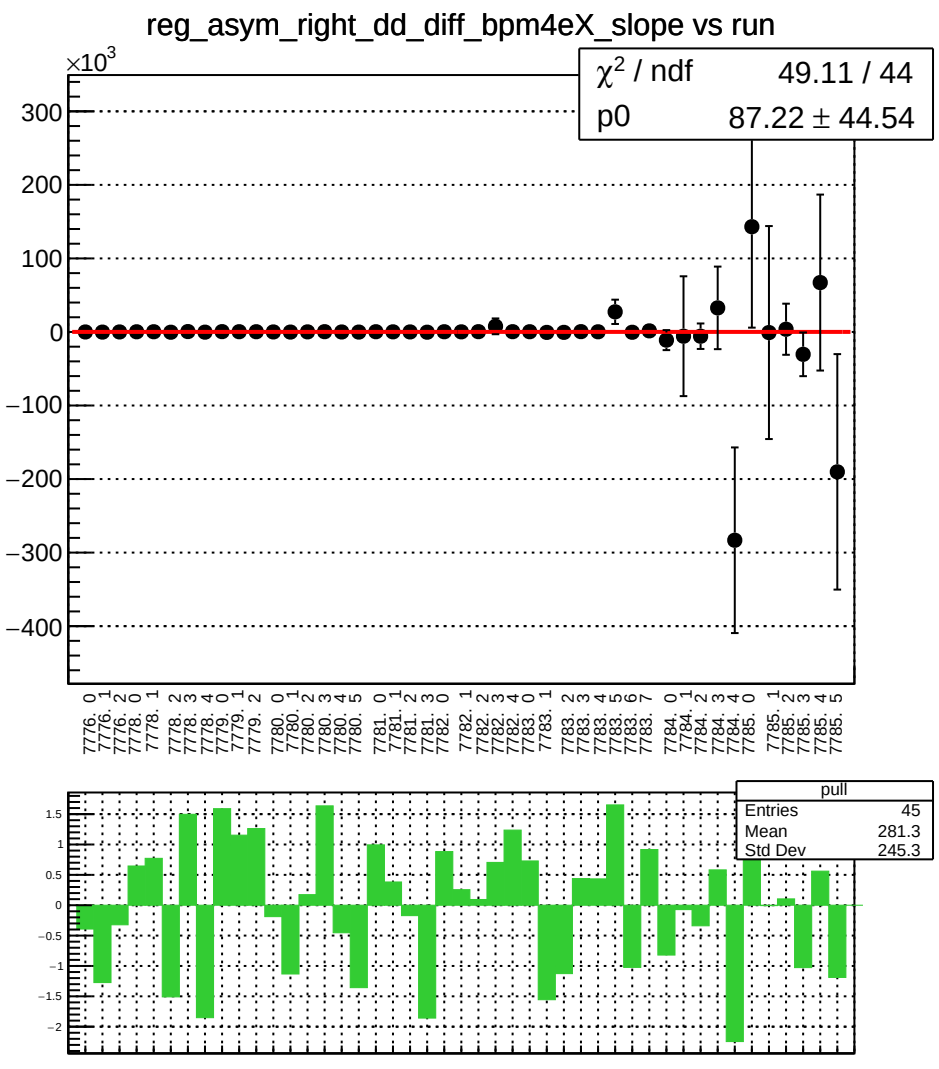

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 64.93 / 44
p0 −17.75 ± 1.879
15000
10000
5000
0
−5000
−10000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 88.53
Std Dev 72.72
3
2
1
0
−1
−2
−3
pull1D
Entries 45
Mean 0.04635
Std Dev 1.2
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

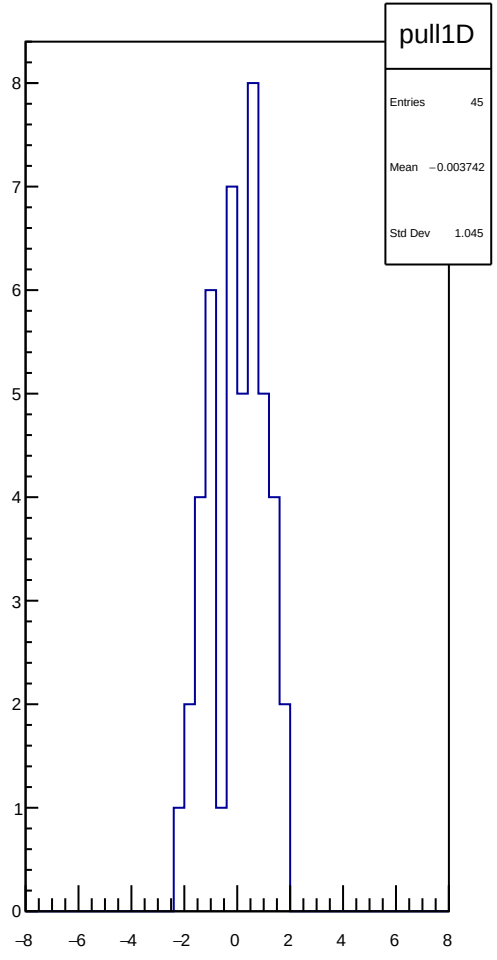

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 48.97 / 44
p0 −63.88 ± 51.44
pull
Entries 45
Mean −105.2
Std Dev 141.9

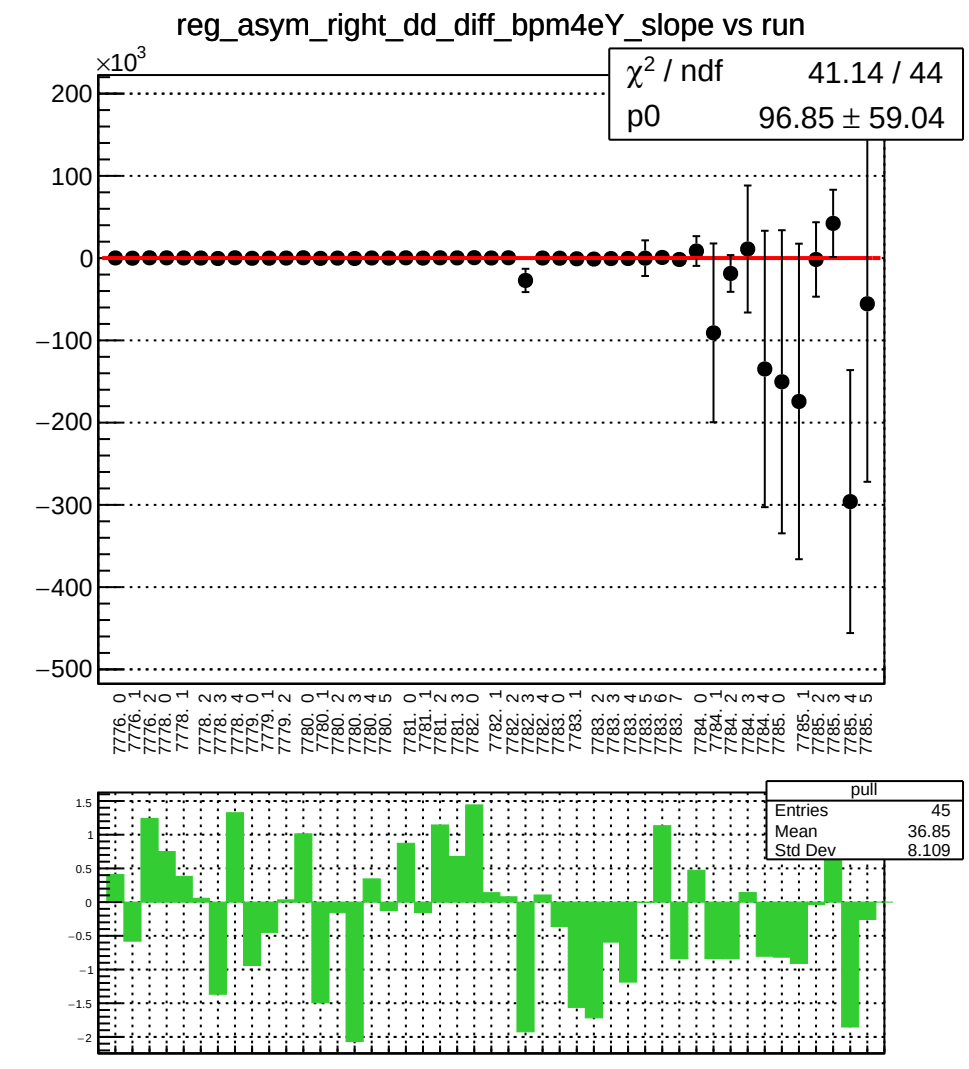

pull1D
Entries 45
Mean −0.005875
Std Dev 1.043

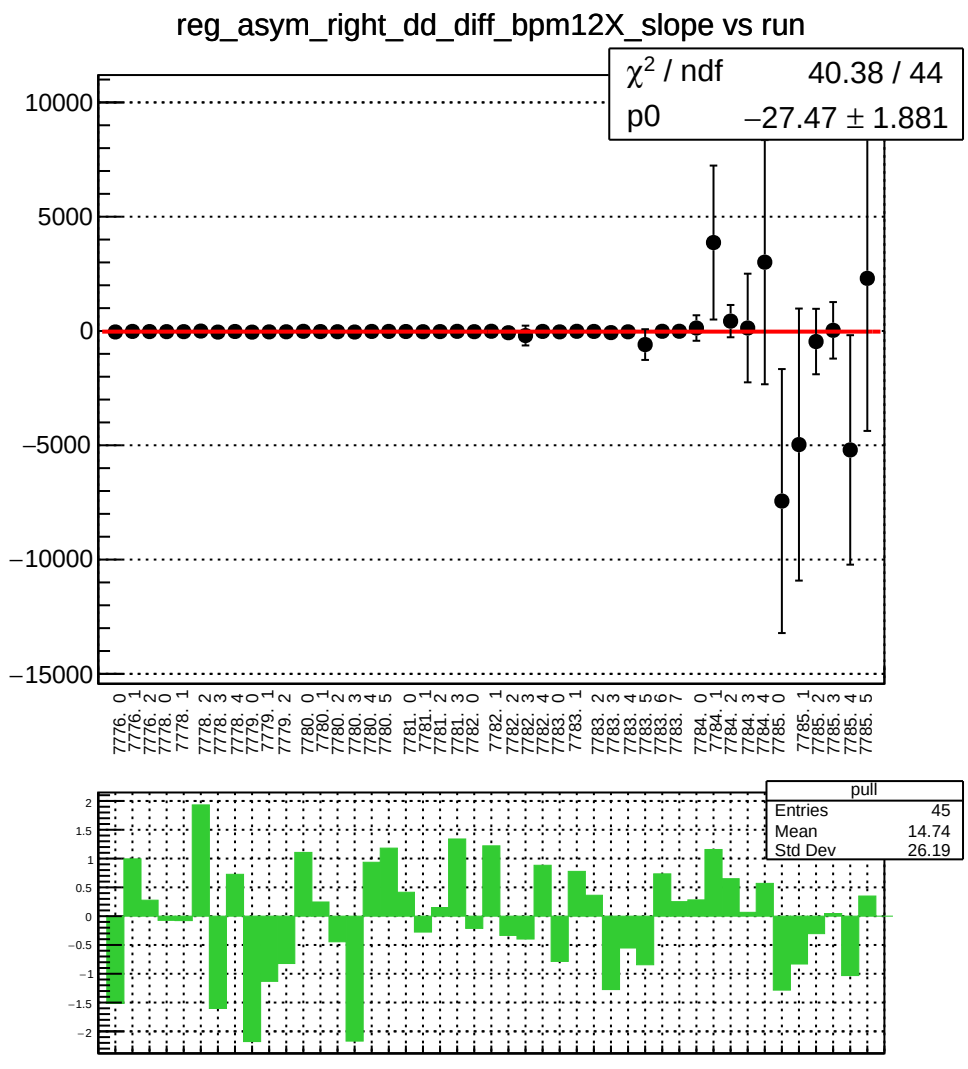

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 41.46 / 44
p0 −78.67 ± 52.29
pull
Entries 45
Mean 35.54
Std Dev 4.226


pull1D
Entries 45
Mean 0.2045
Std Dev 0.9378

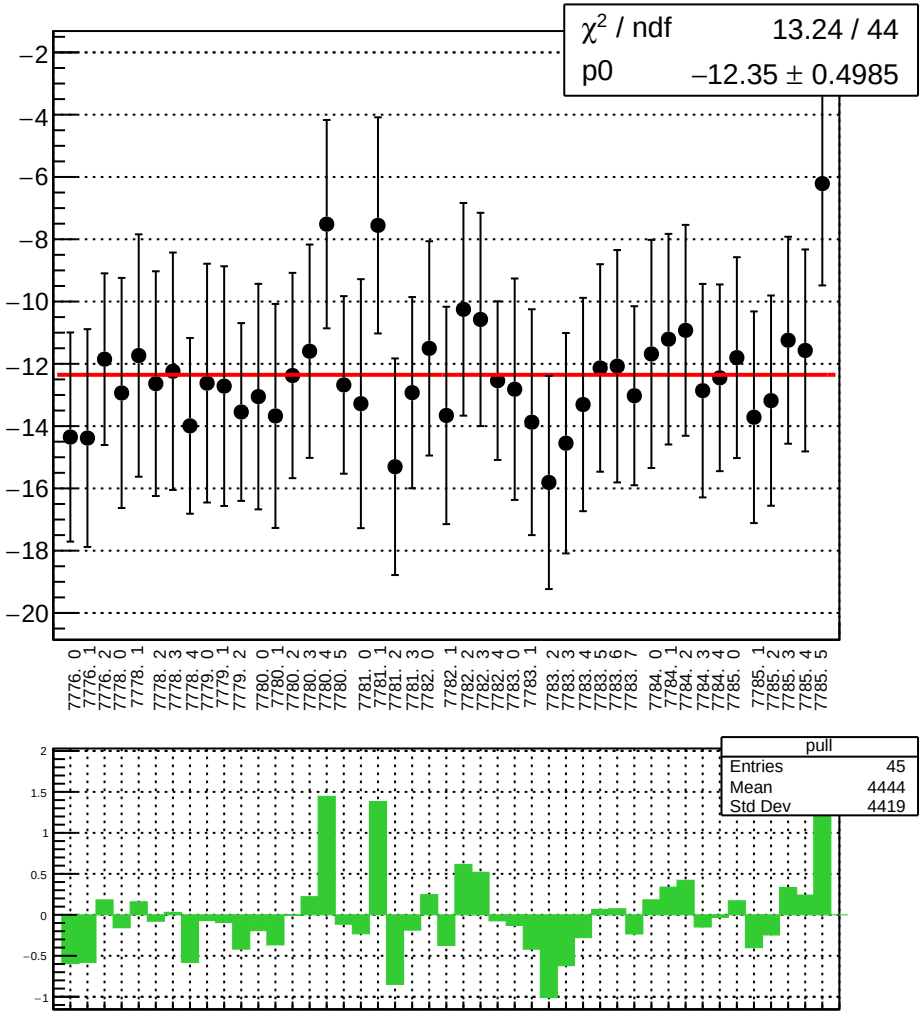

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 49.11 / 44
p0 87.22 ± 44.54
300
200
100
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 281.3
Std Dev 245.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

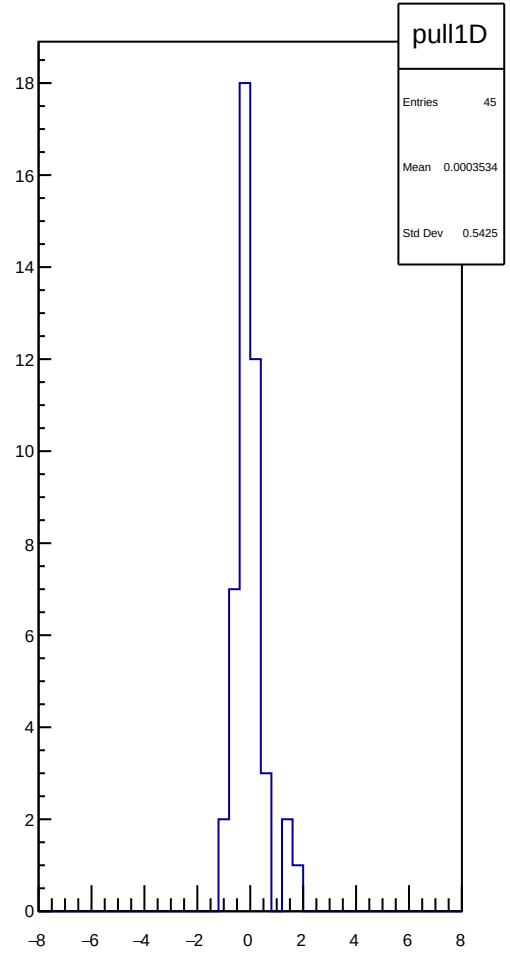

pull1D
Entries 45
Mean −0.003742
Std Dev 1.045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

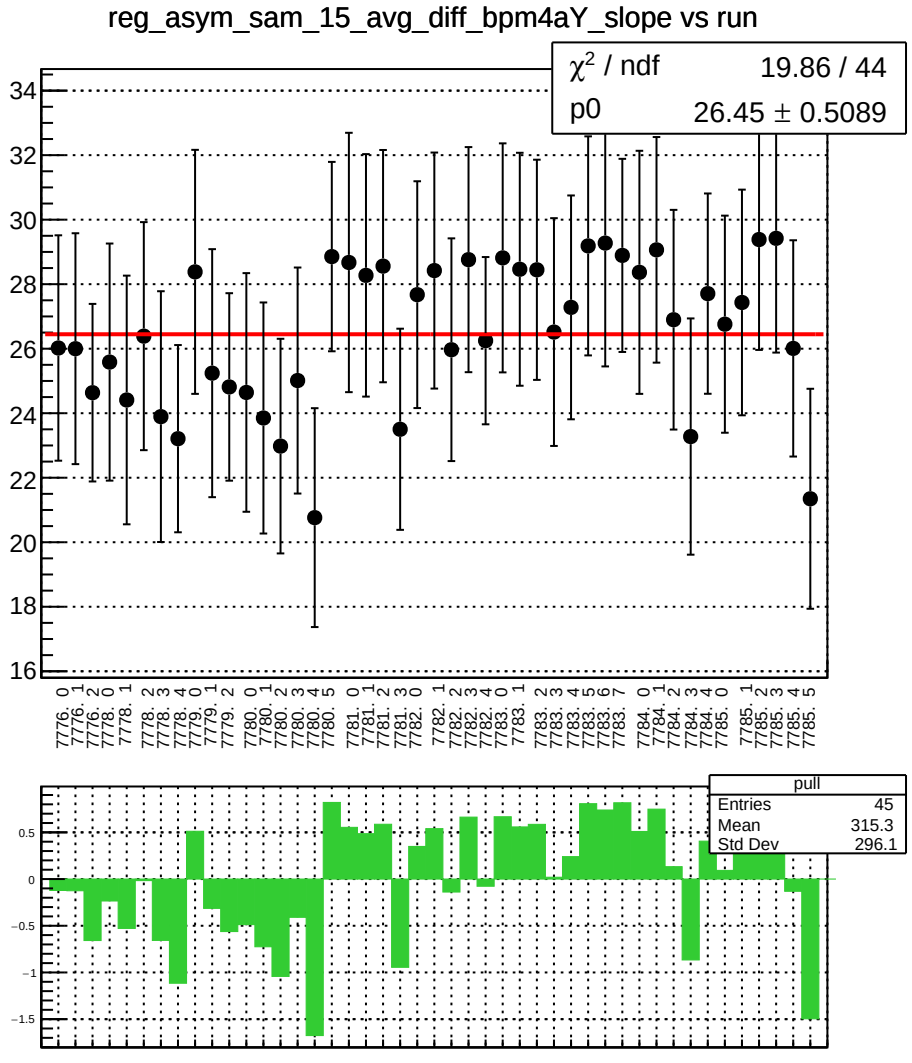

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 41.14 / 44
p0 96.85 ± 59.04
200
100
0
−100
−200
−300
−400
−500
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 36.85
Std Dev 8.109
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.2016
Std Dev 0.9346
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

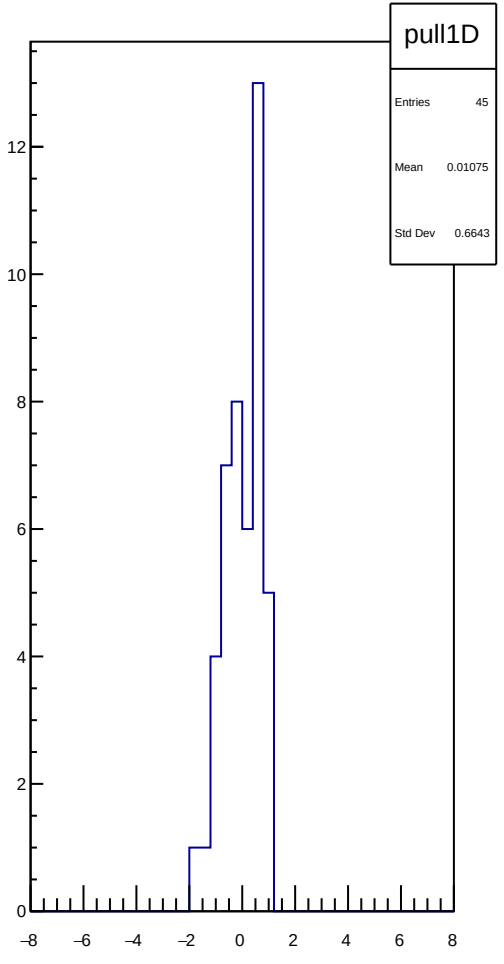

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 40.38 / 44
p0 −27.47 ± 1.881
10000
5000
0
−5000
−10000
−15000
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 14.74
Std Dev 26.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean −0.03289
Std Dev 0.9467
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

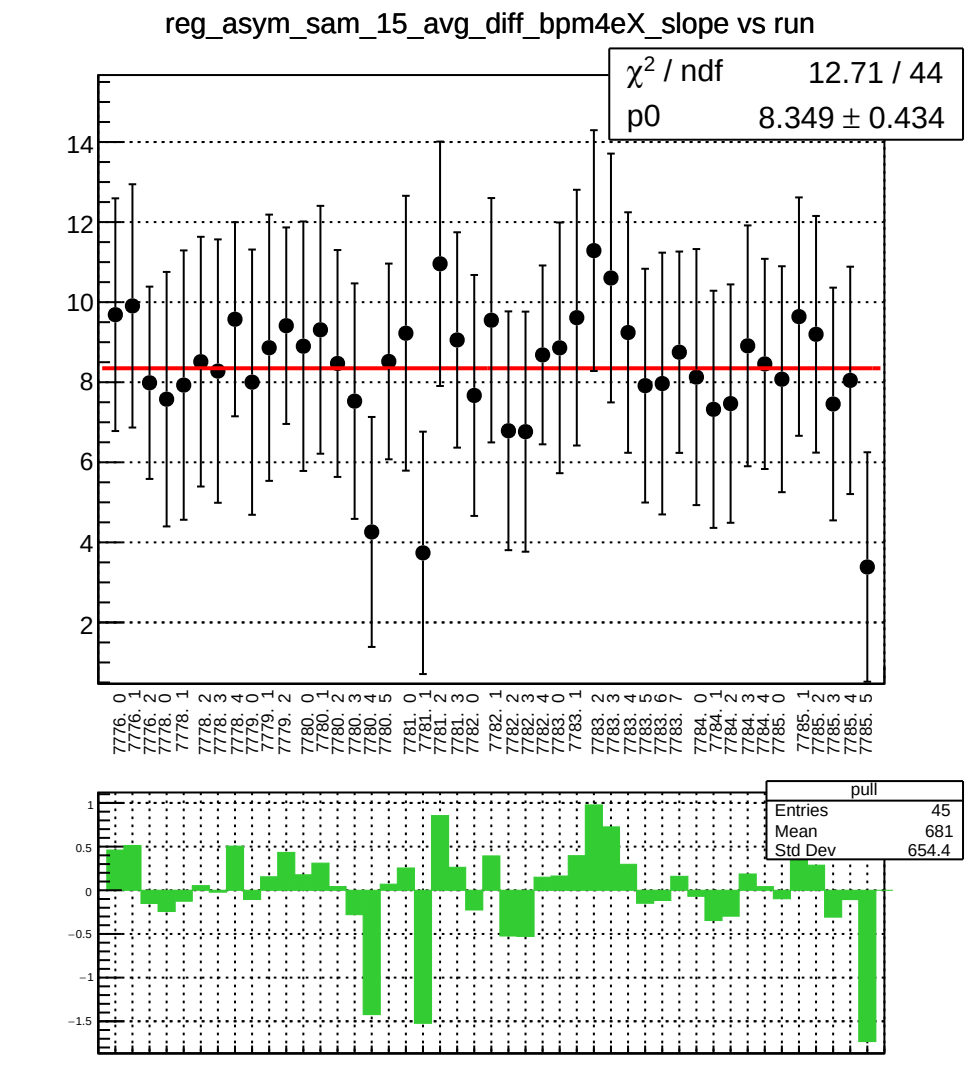
reg_asym_sam_15_avg_diff_bpm1X_slope vs run

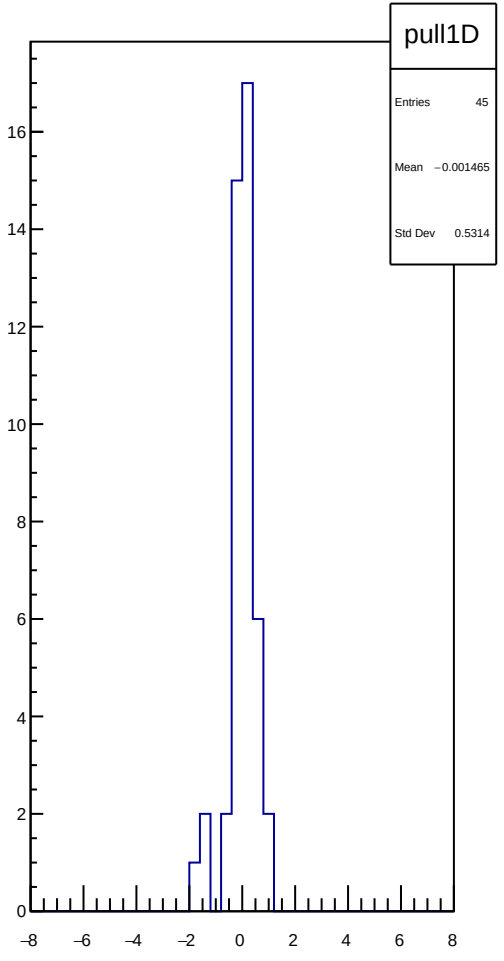


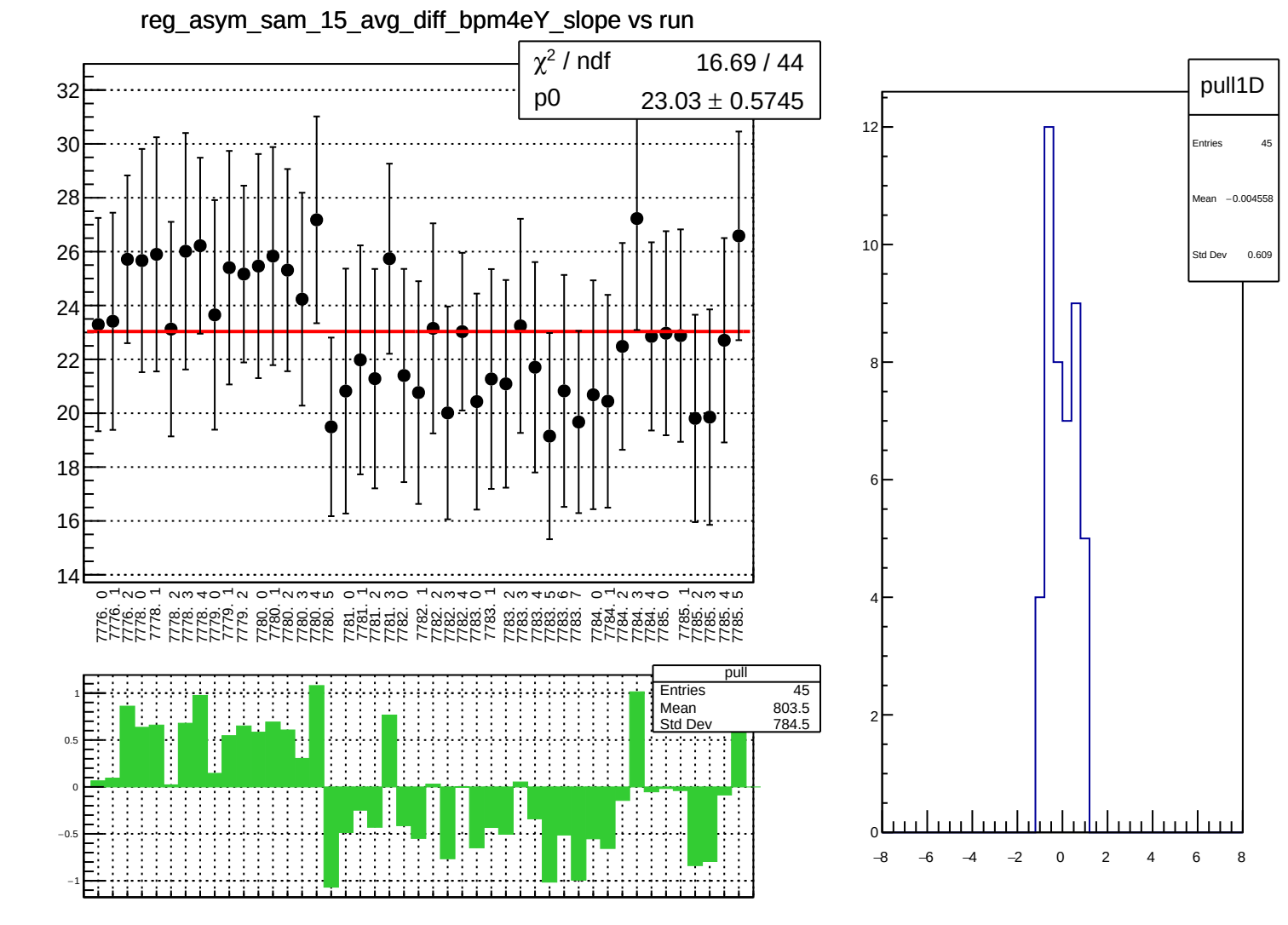


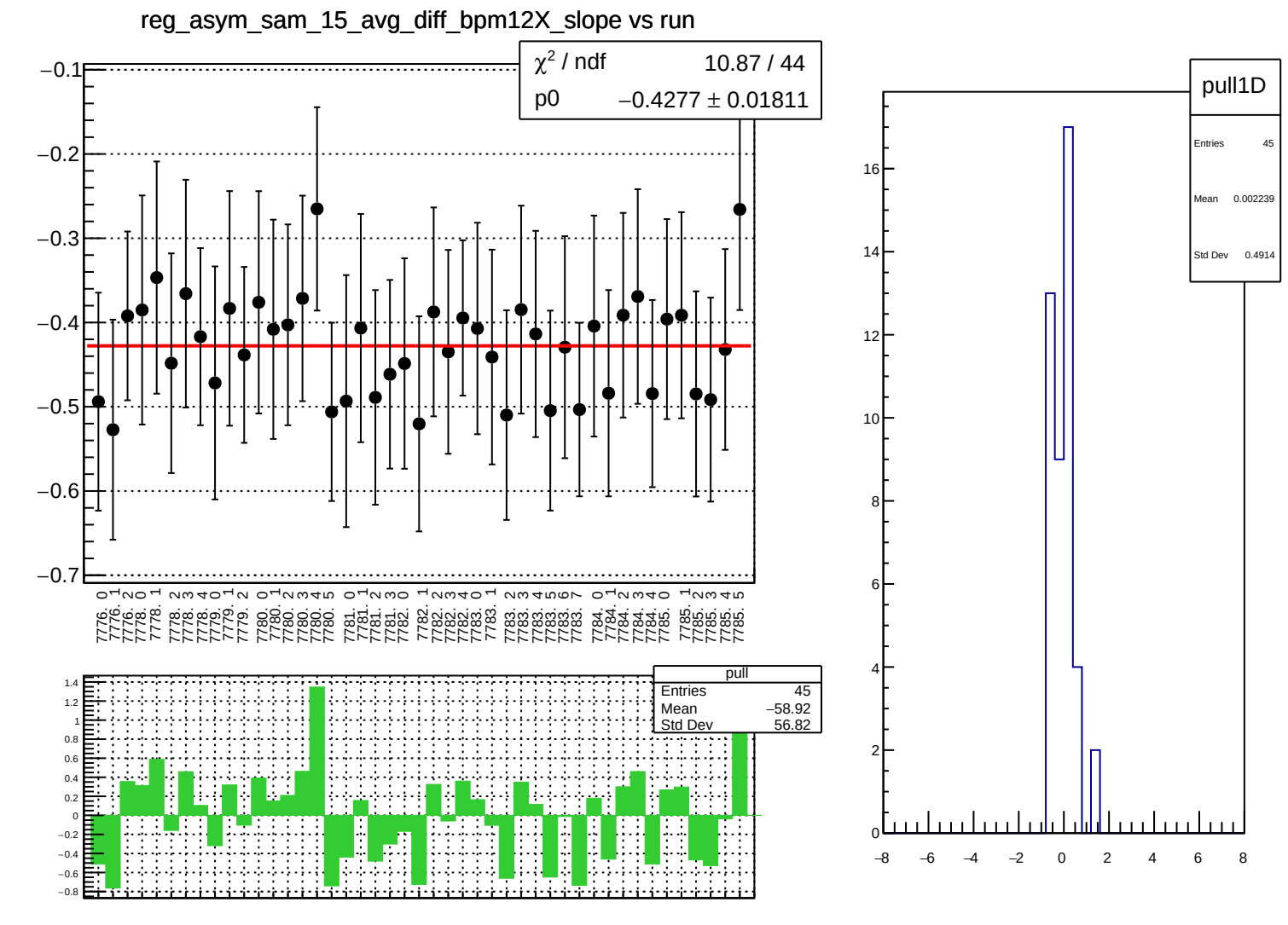

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.86 / 44
p0 26.45 ± 0.5089
pull
Entries 45
Mean 315.3
Std Dev 296.1

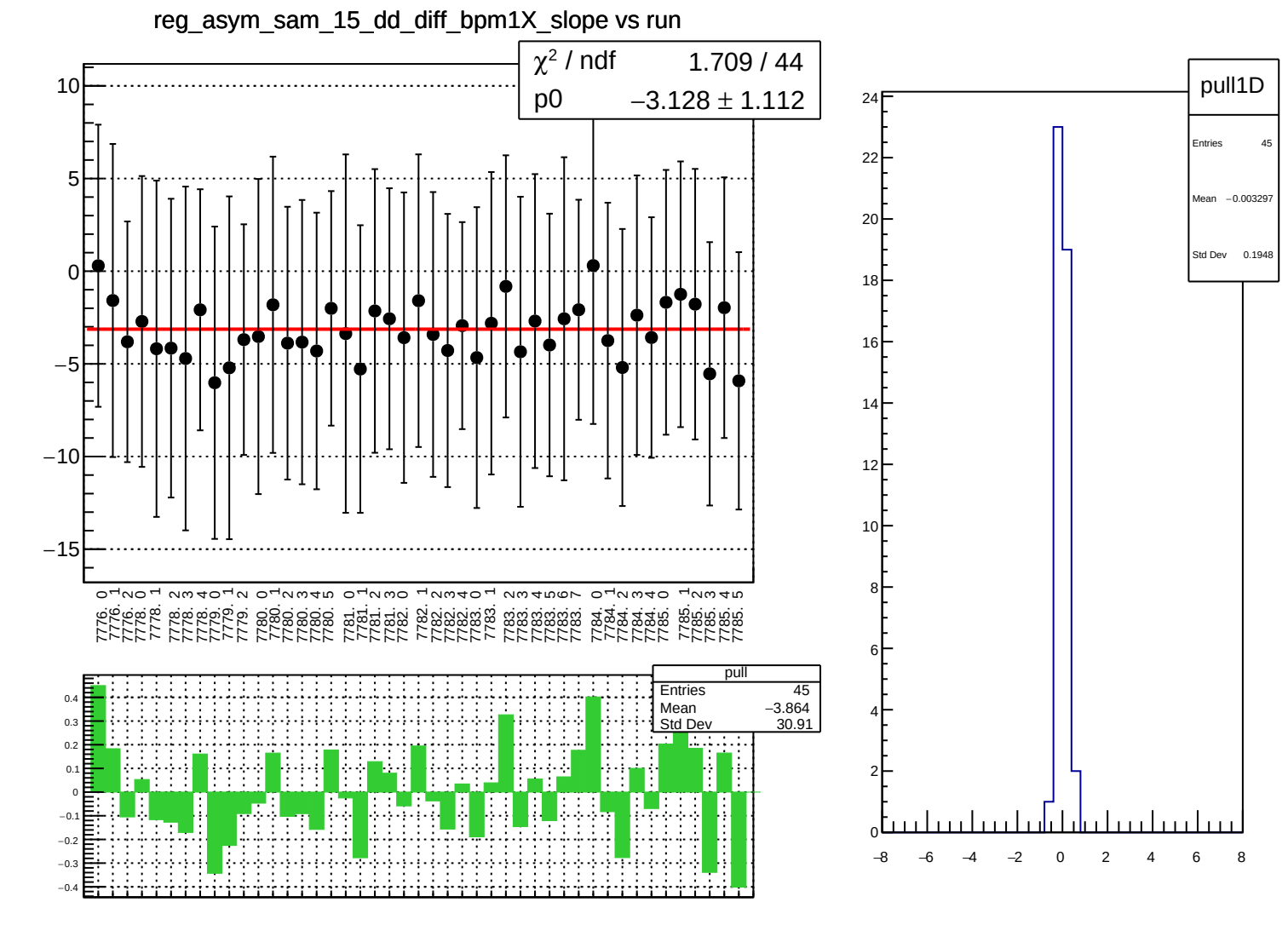

pull1D
Entries 45
Mean 0.01075
Std Dev 0.6643

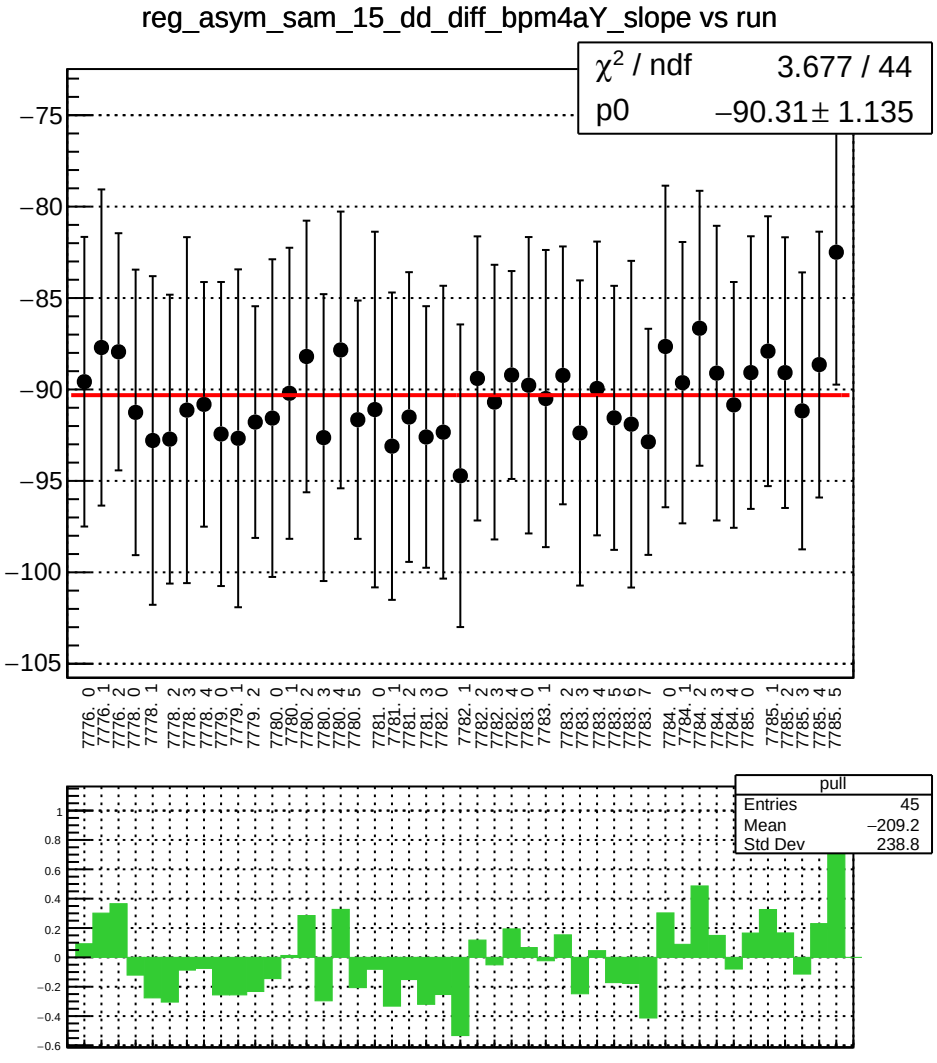

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.71 / 44
p0 8.349 ± 0.434
pull
Entries 45
Mean 681
Std Dev 654.4

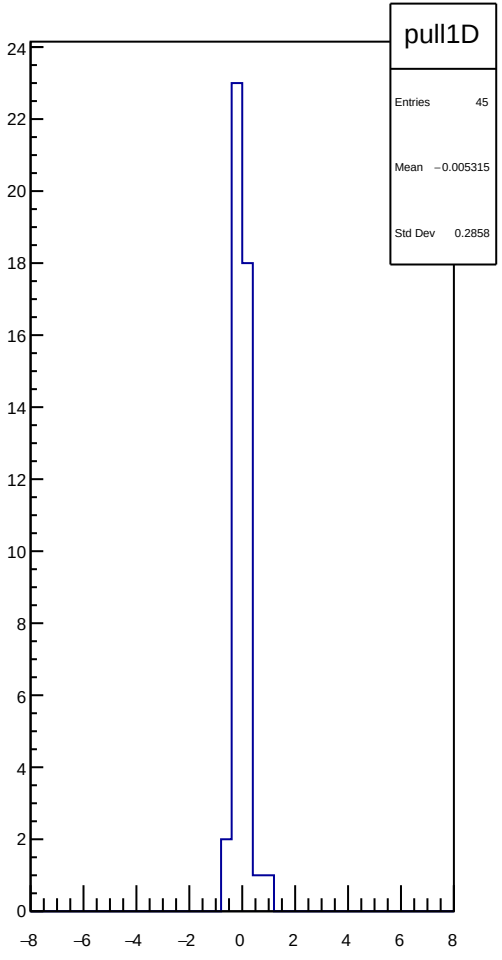

pull1D
Entries 45
Mean −0.001465
Std Dev 0.5314

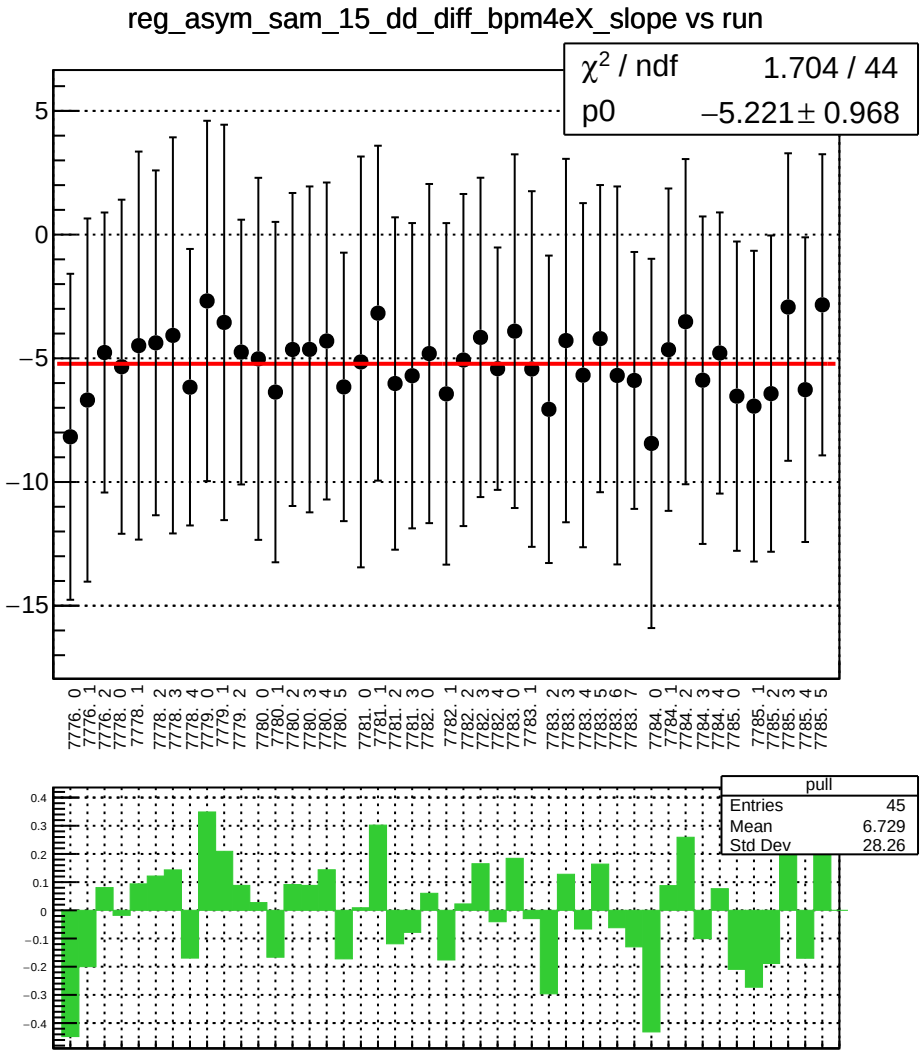

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 16.69 / 44
p0 23.03 ± 0.5745
pull
Entries 45
Mean 803.5
Std Dev 784.5
pull1D
Entries 45
Mean −0.004558
Std Dev 0.609

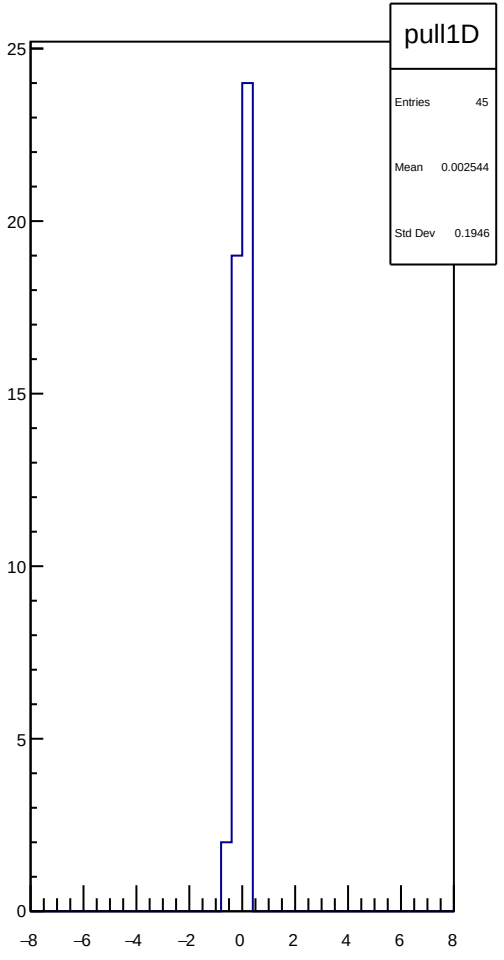

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 10.87 / 44
p0 −0.4277 ± 0.01811
pull
Entries 45
Mean −58.92
Std Dev 56.82
pull1D
Entries 45
Mean 0.002239
Std Dev 0.4914

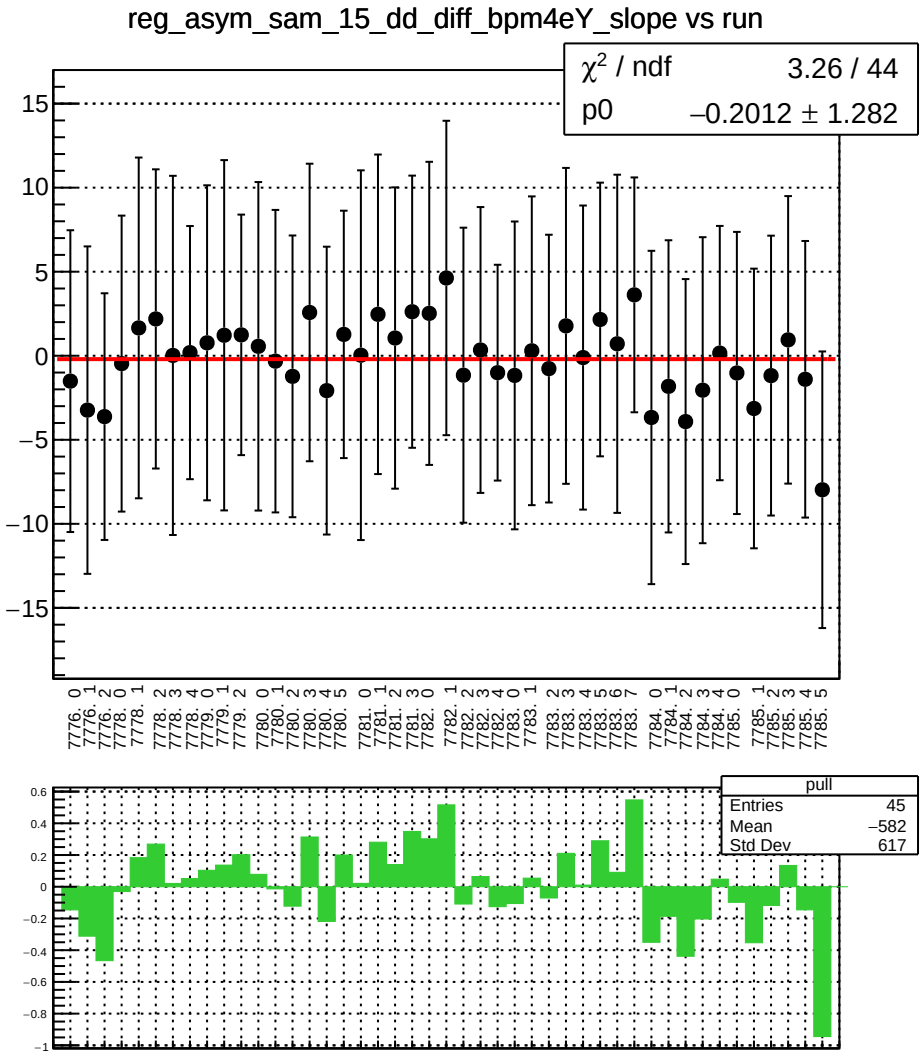

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 1.709 / 44
p0 −3.128 ± 1.112
pull
Entries 45
Mean −3.864
Std Dev 30.91
pull1D
Entries 45
Mean −0.003297
Std Dev 0.1948

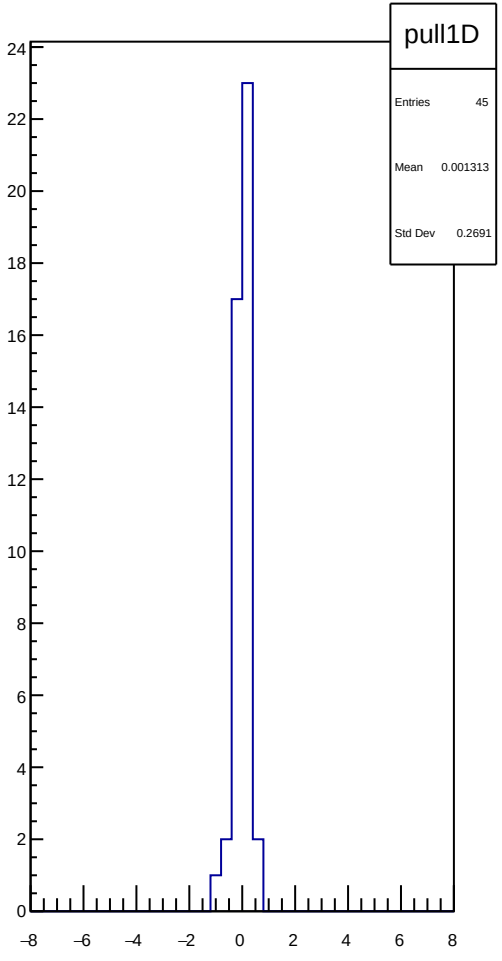

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.677 / 44
p0 −90.31± 1.135
pull
Entries 45
Mean −209.2
Std Dev 238.8

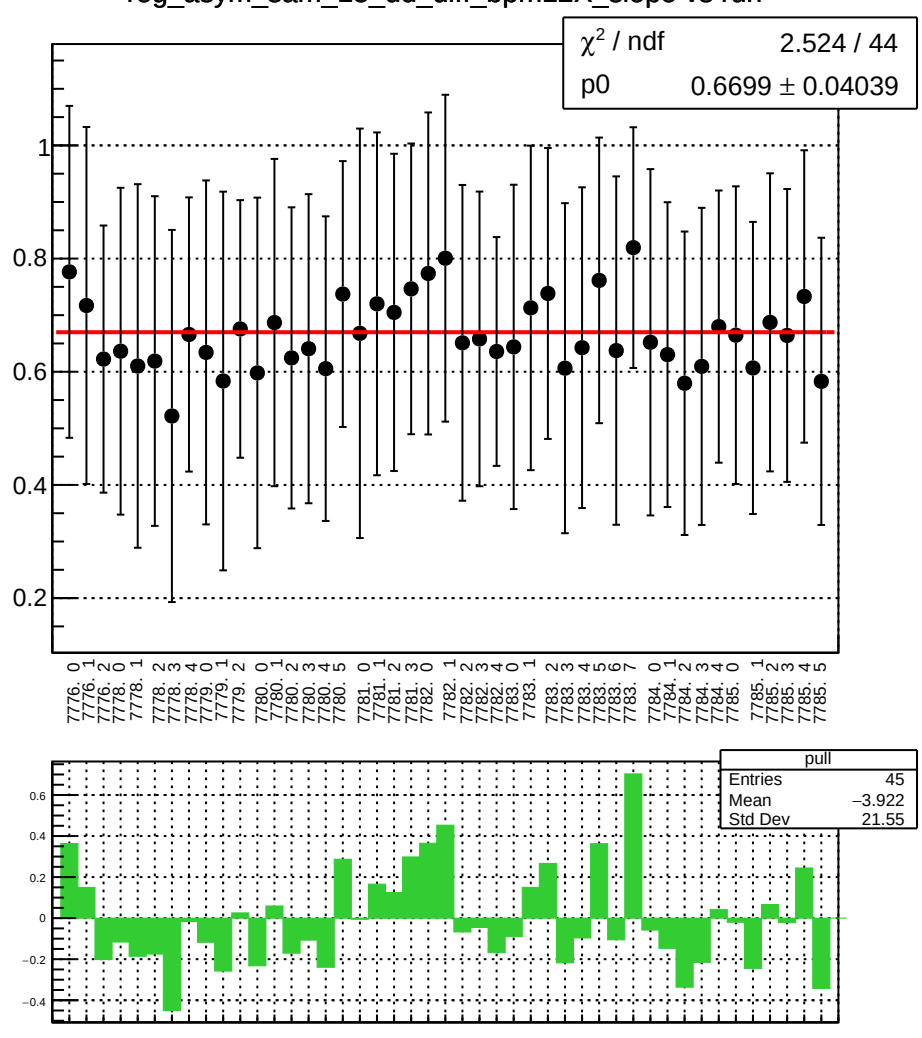

pull1D
Entries 45
Mean −0.005315
Std Dev 0.2858

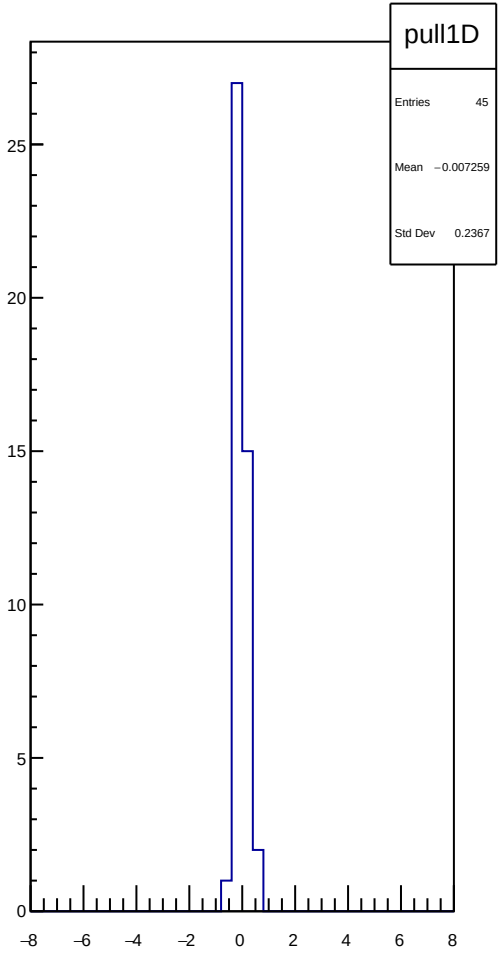

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.704 / 44
p0 −5.221 ± 0.968
pull
Entries 45
Mean 6.729
Std Dev 28.26

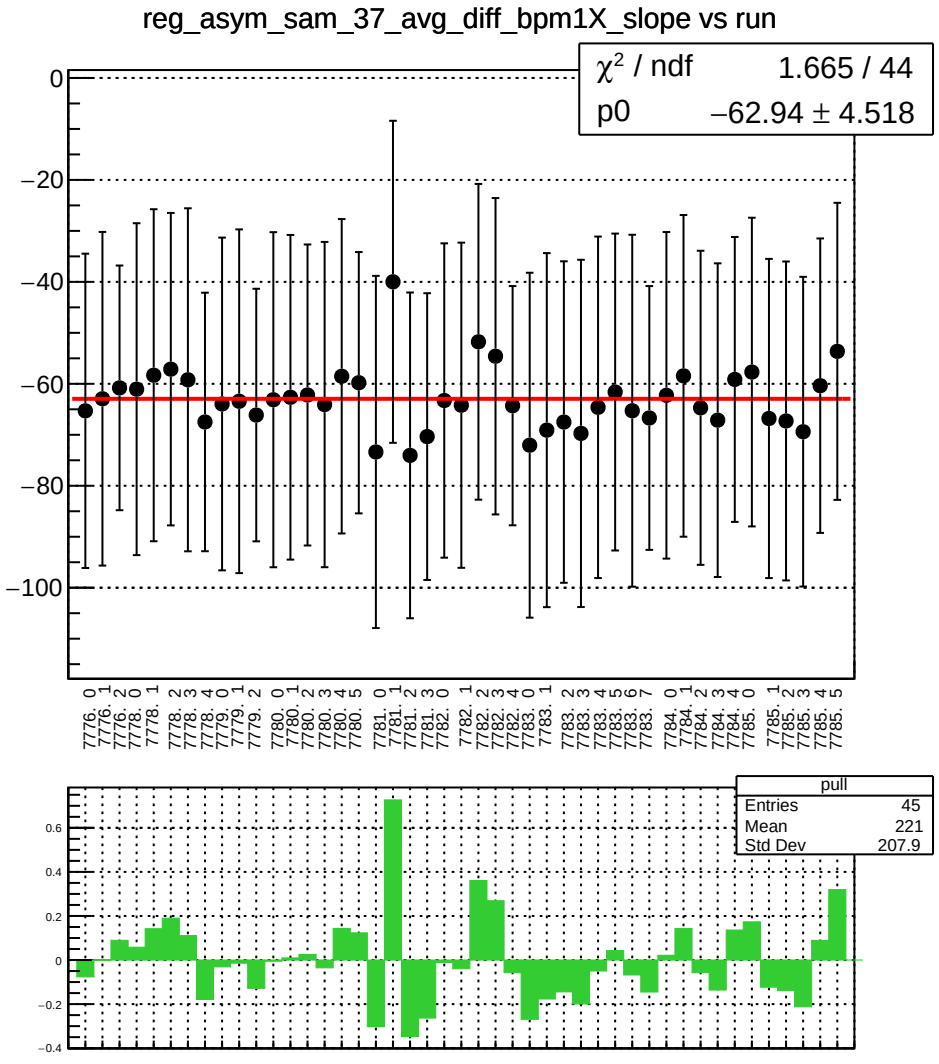

pull1D
Entries 45
Mean 0.002544
Std Dev 0.1946

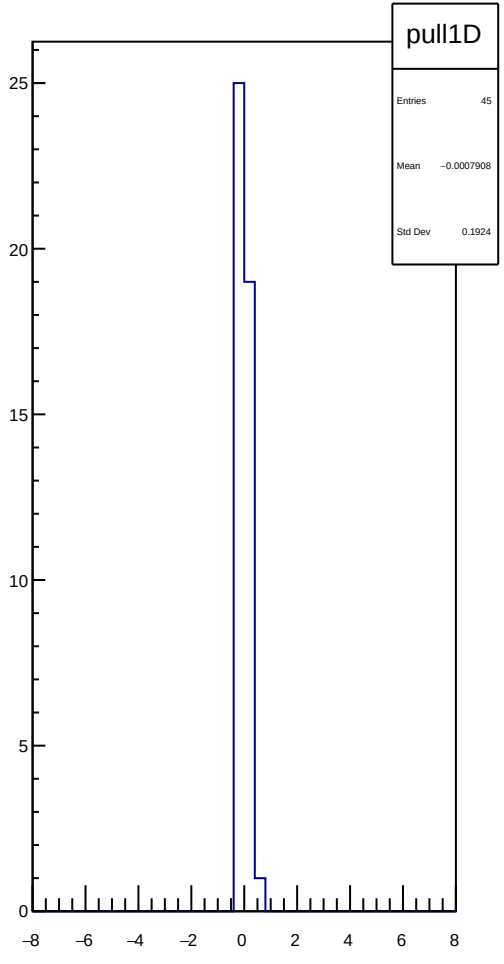

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.26 / 44
p0 −0.2012 ± 1.282
pull
Entries 45
Mean −582
Std Dev 617

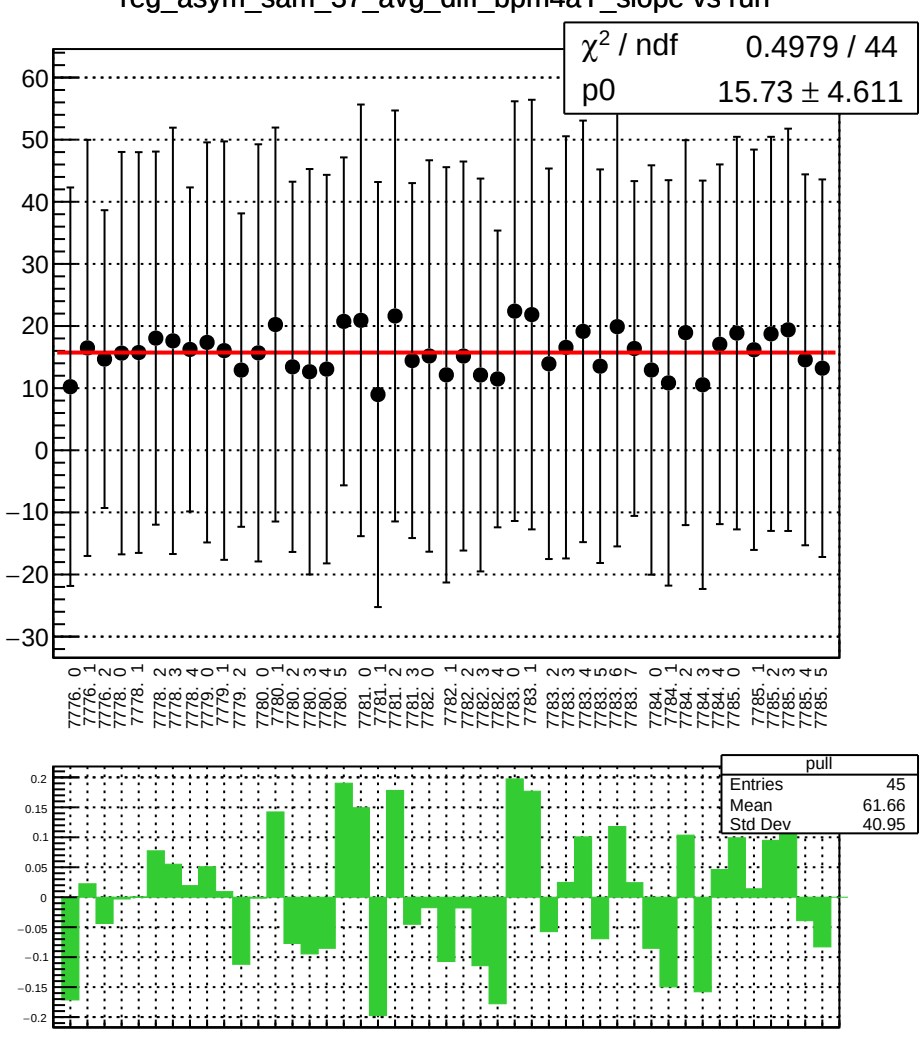

pull1D
Entries 45
Mean 0.001313
Std Dev 0.2691

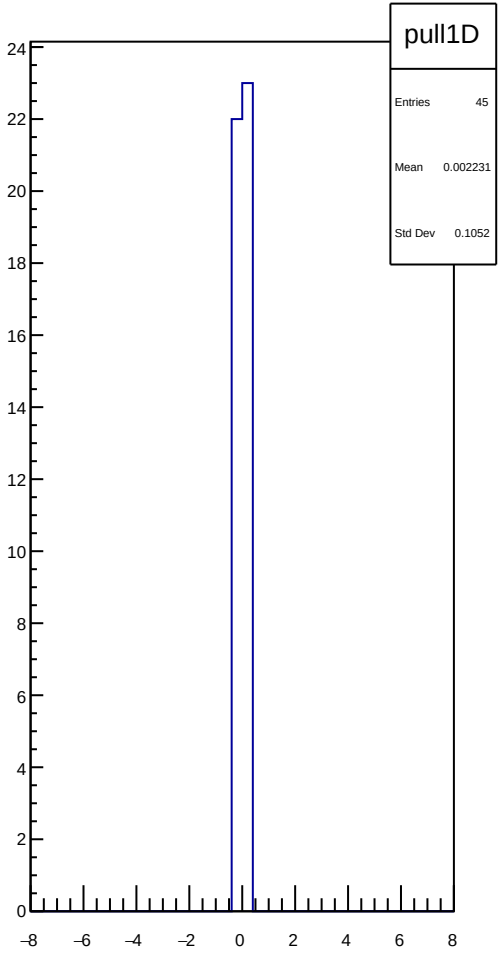

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 2.524 / 44
p0 0.6699 ± 0.04039
1
0.8
0.6
0.4
0.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −3.922
Std Dev 21.55
0.6
0.4
0.2
0
−0.2
−0.4

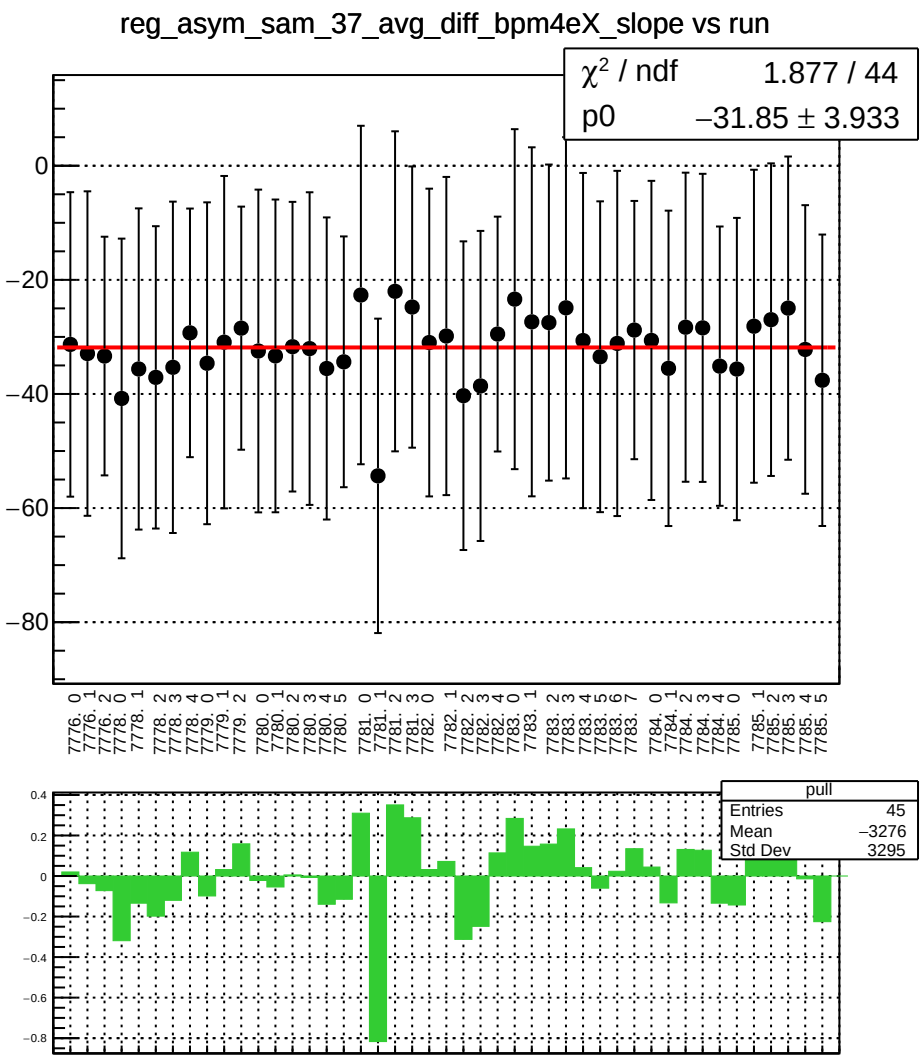

pull1D
Entries 45
Mean −0.007259
Std Dev 0.2367
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

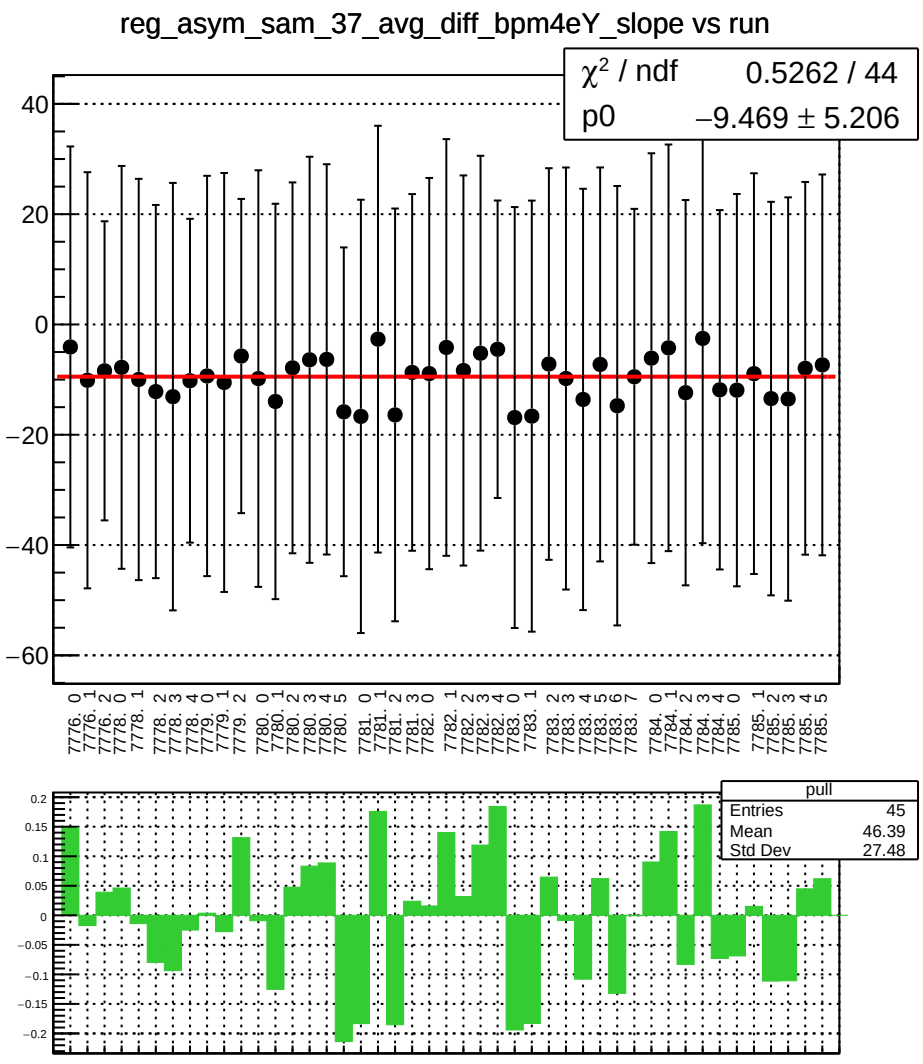

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1.665 / 44
p0 −62.94 ± 4.518
pull
Entries 45
Mean 221
Std Dev 207.9

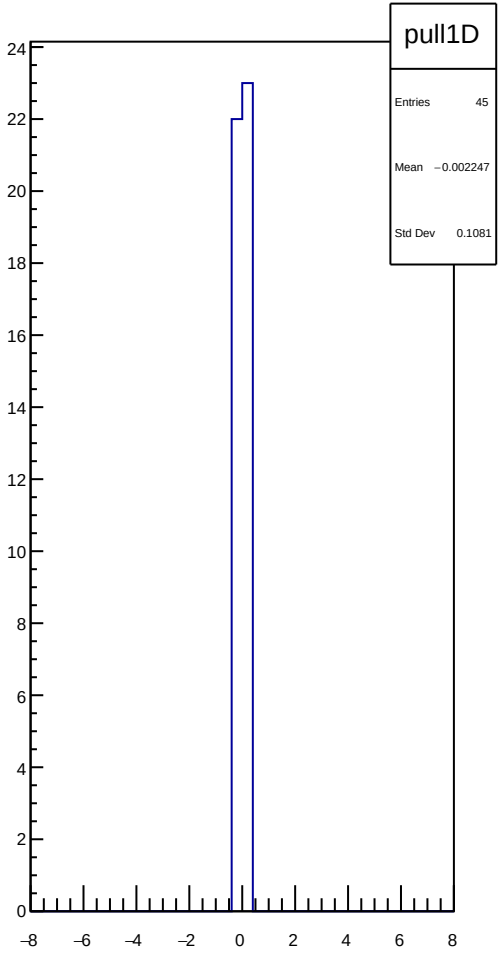

pull1D
Entries 45
Mean −0.0007908
Std Dev 0.1924

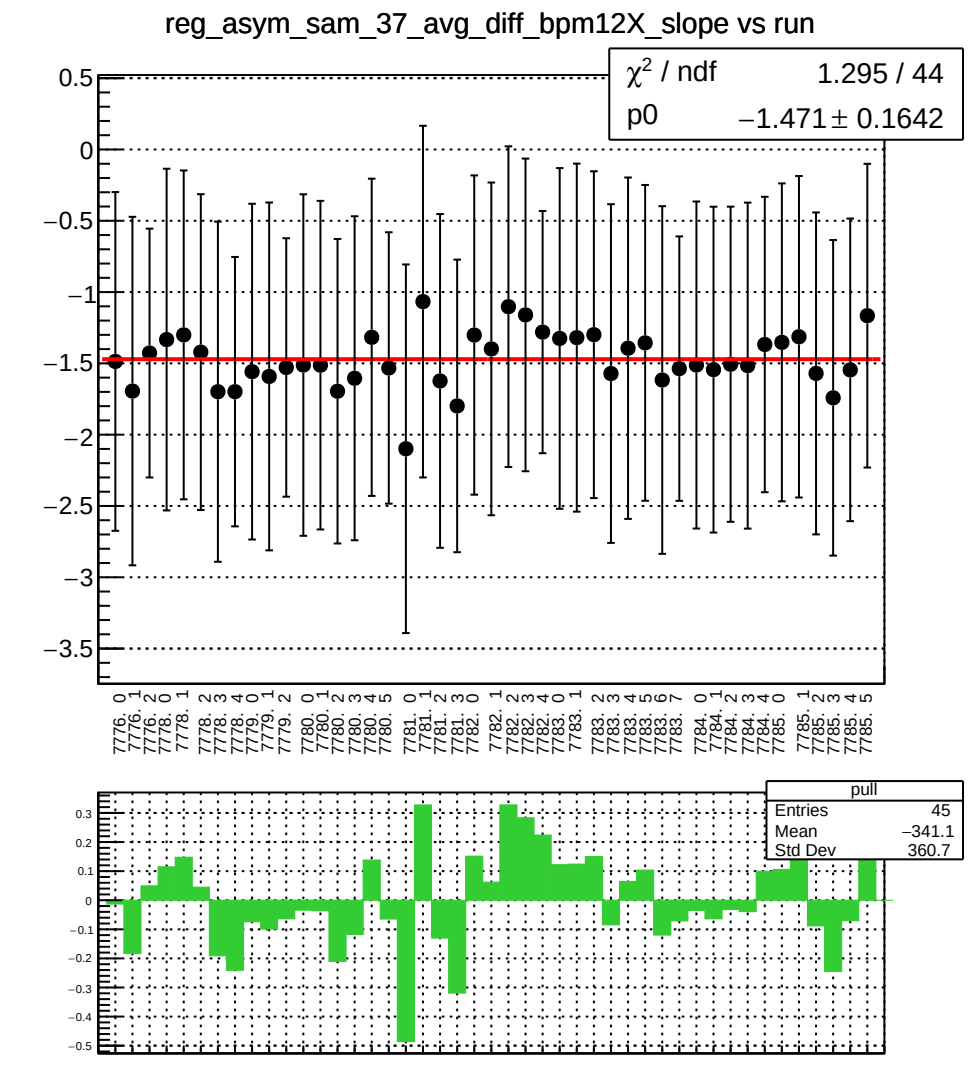

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4979 / 44
p0 15.73 ± 4.611
pull
Entries 45
Mean 61.66
Std Dev 40.95

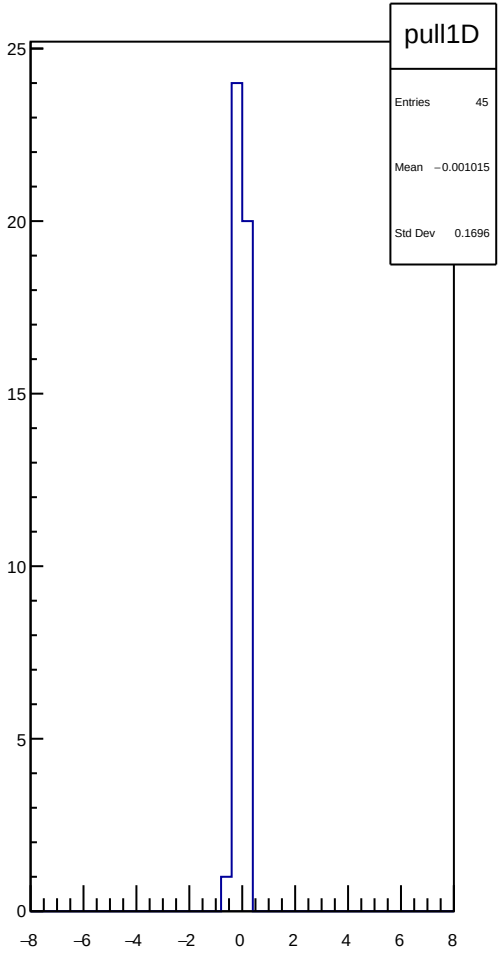

pull1D
Entries 45
Mean 0.002231
Std Dev 0.1052

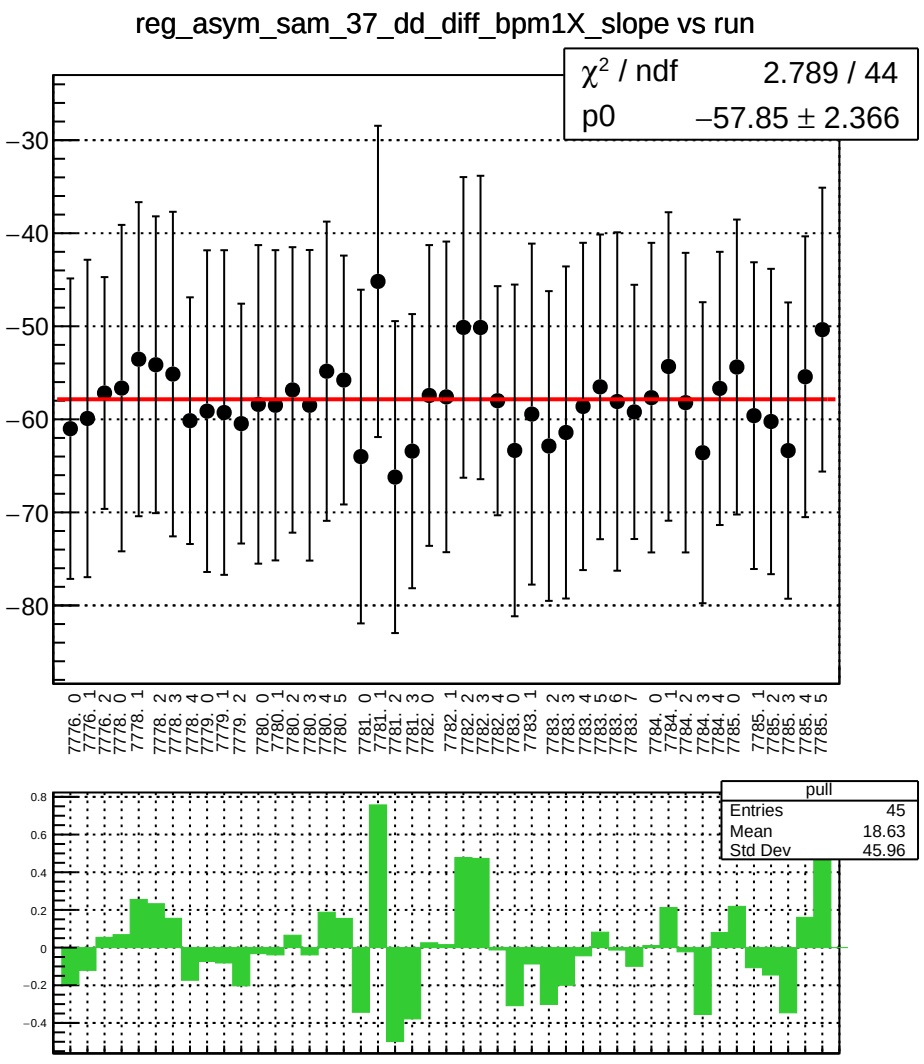

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.877 / 44
p0 −31.85 ± 3.933
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −3276
Std Dev 3295
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0001656
Std Dev 0.2042
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

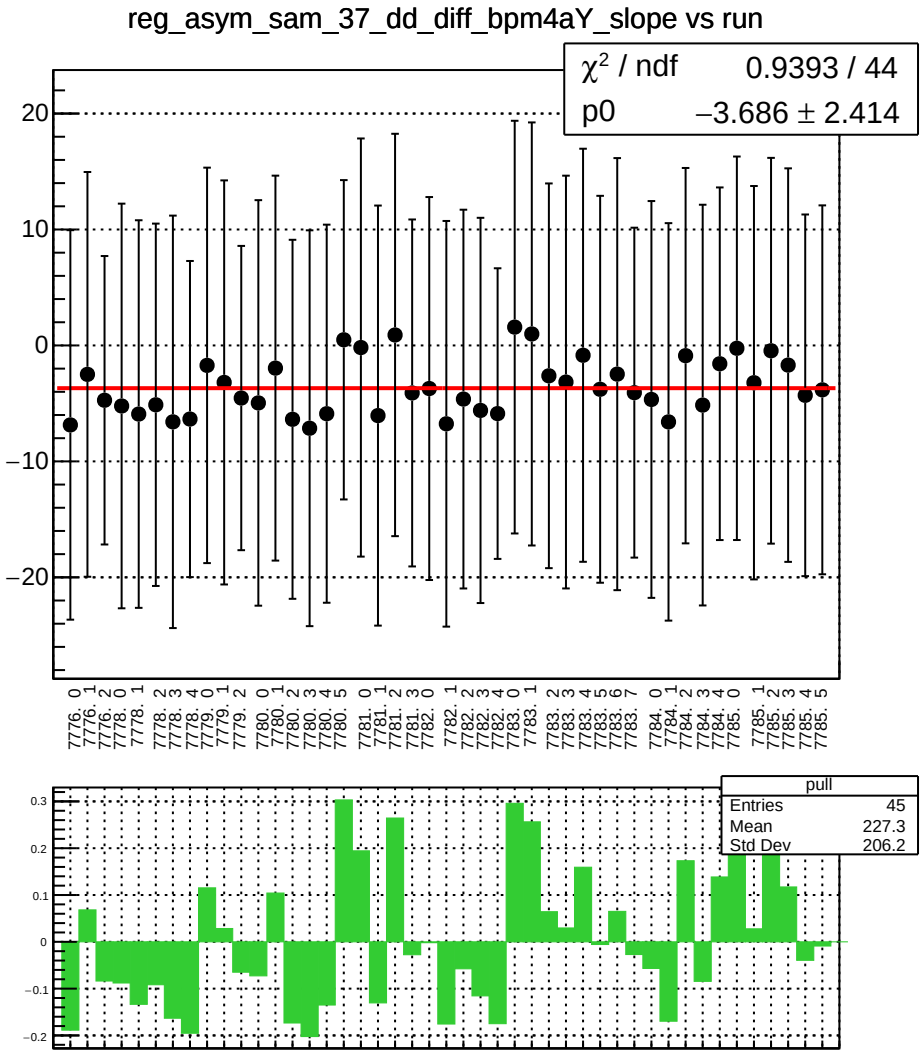

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5262 / 44
p0 −9.469 ± 5.206
pull
Entries 45
Mean 46.39
Std Dev 27.48

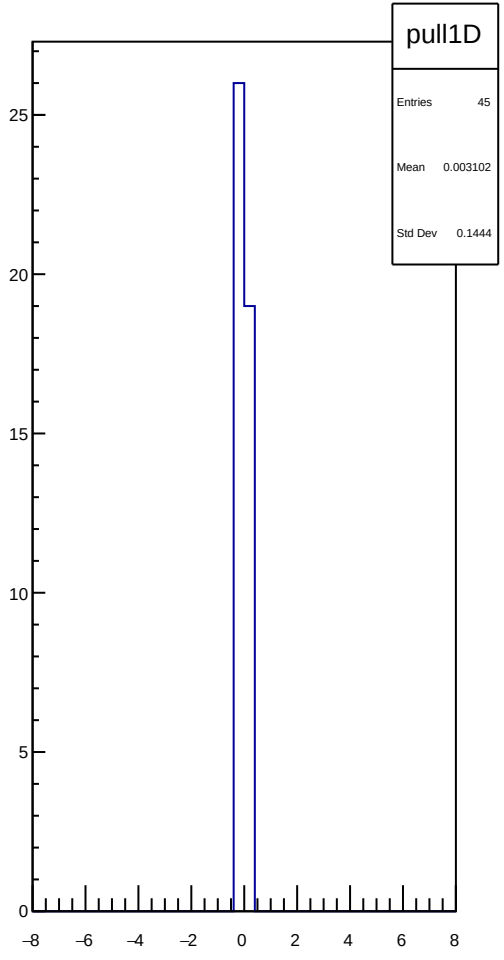

pull1D
Entries 45
Mean −0.002247
Std Dev 0.1081

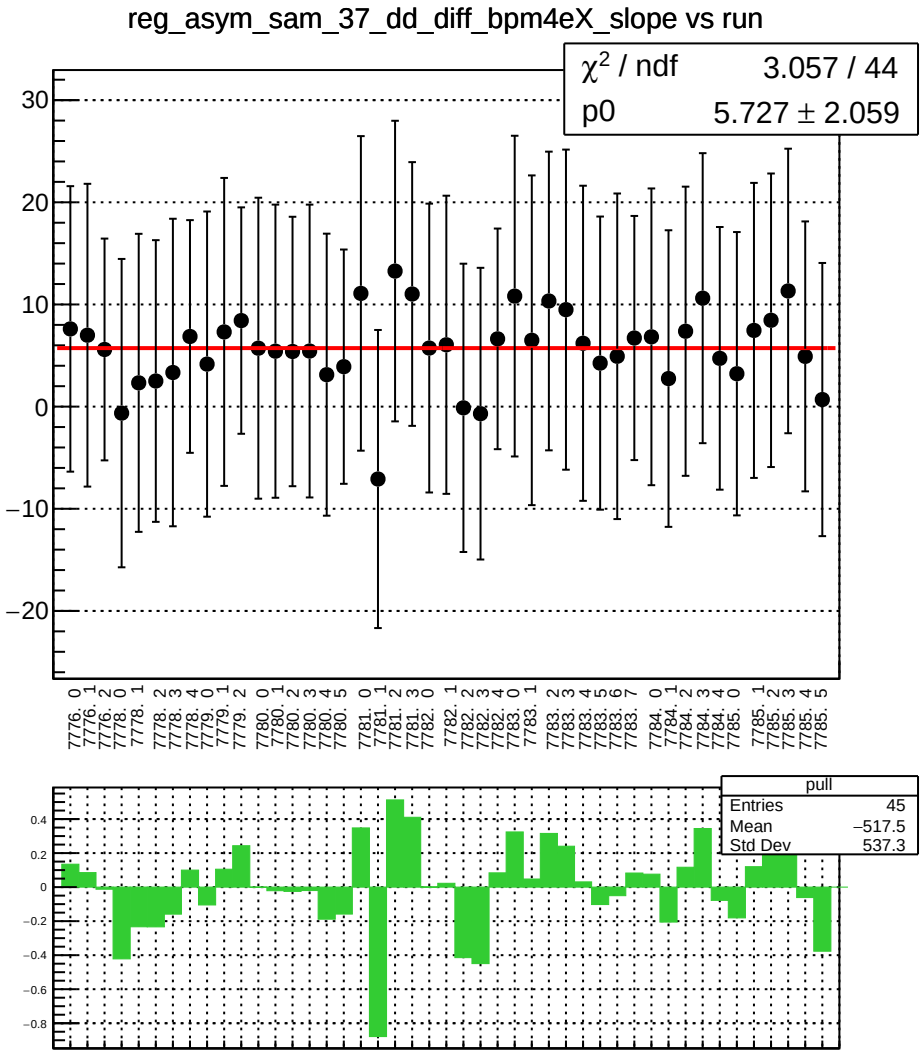

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.295 / 44
p0 −1.471 ± 0.1642
pull
Entries 45
Mean −341.1
Std Dev 360.7

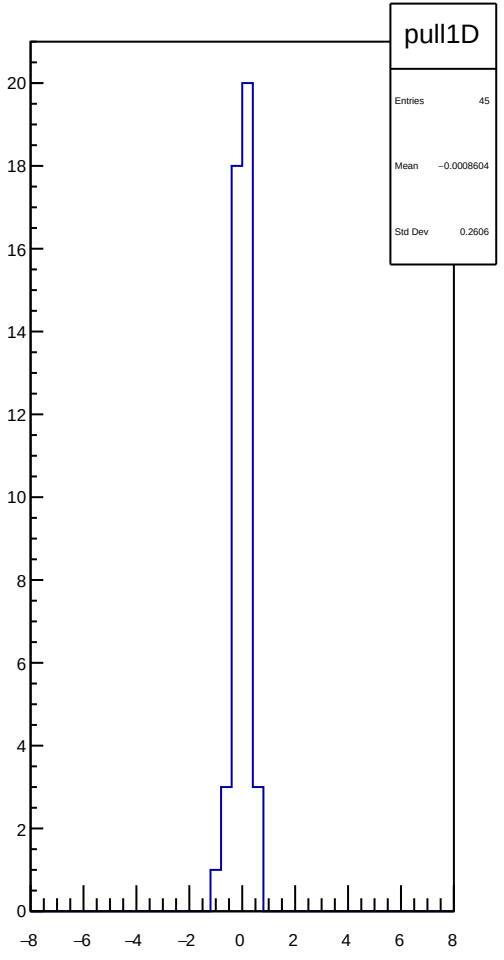

pull1D
Entries 45
Mean −0.001015
Std Dev 0.1696

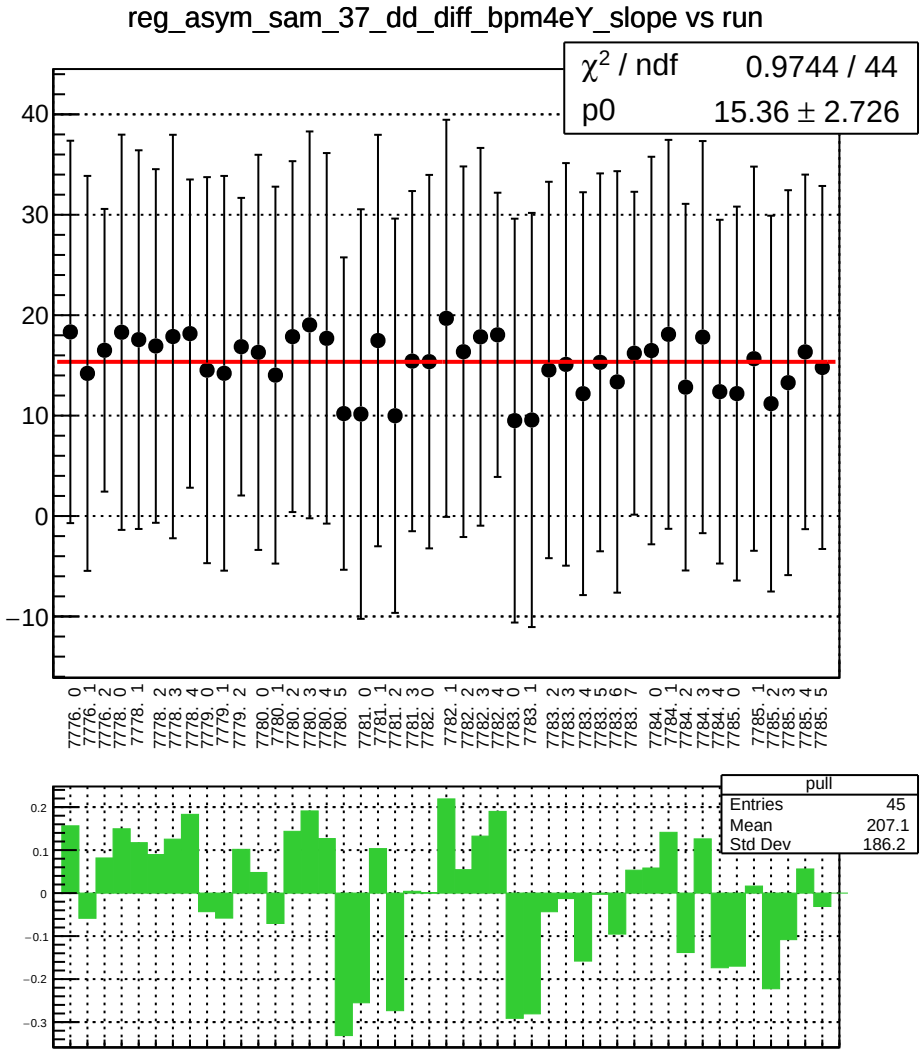

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 2.789 / 44
p0 −57.85 ± 2.366
−30
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 18.63
Std Dev 45.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.0008884
Std Dev 0.249
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

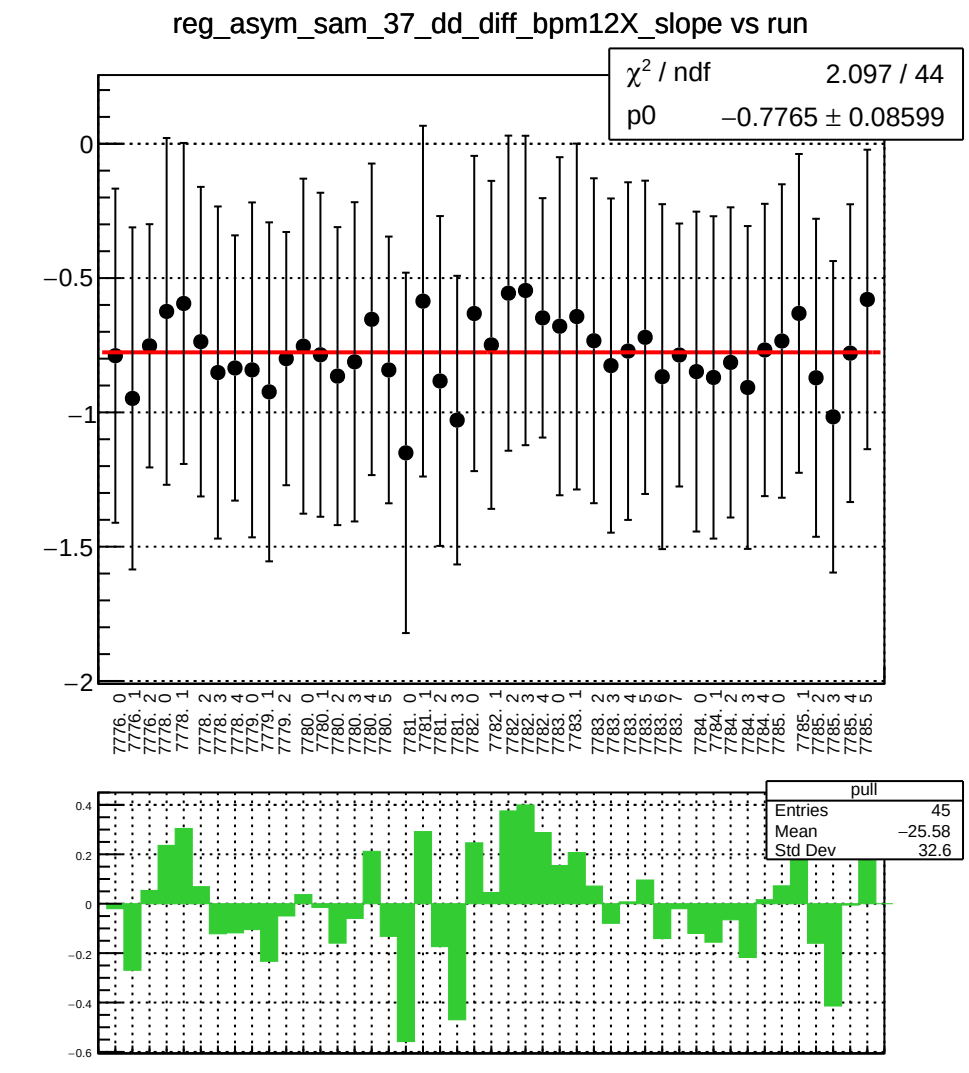

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9393 / 44
p0 −3.686 ± 2.414
20
10
0
−10
−20
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 227.3
Std Dev 206.2
0.3
0.2
0.1
0
−0.1
−0.2

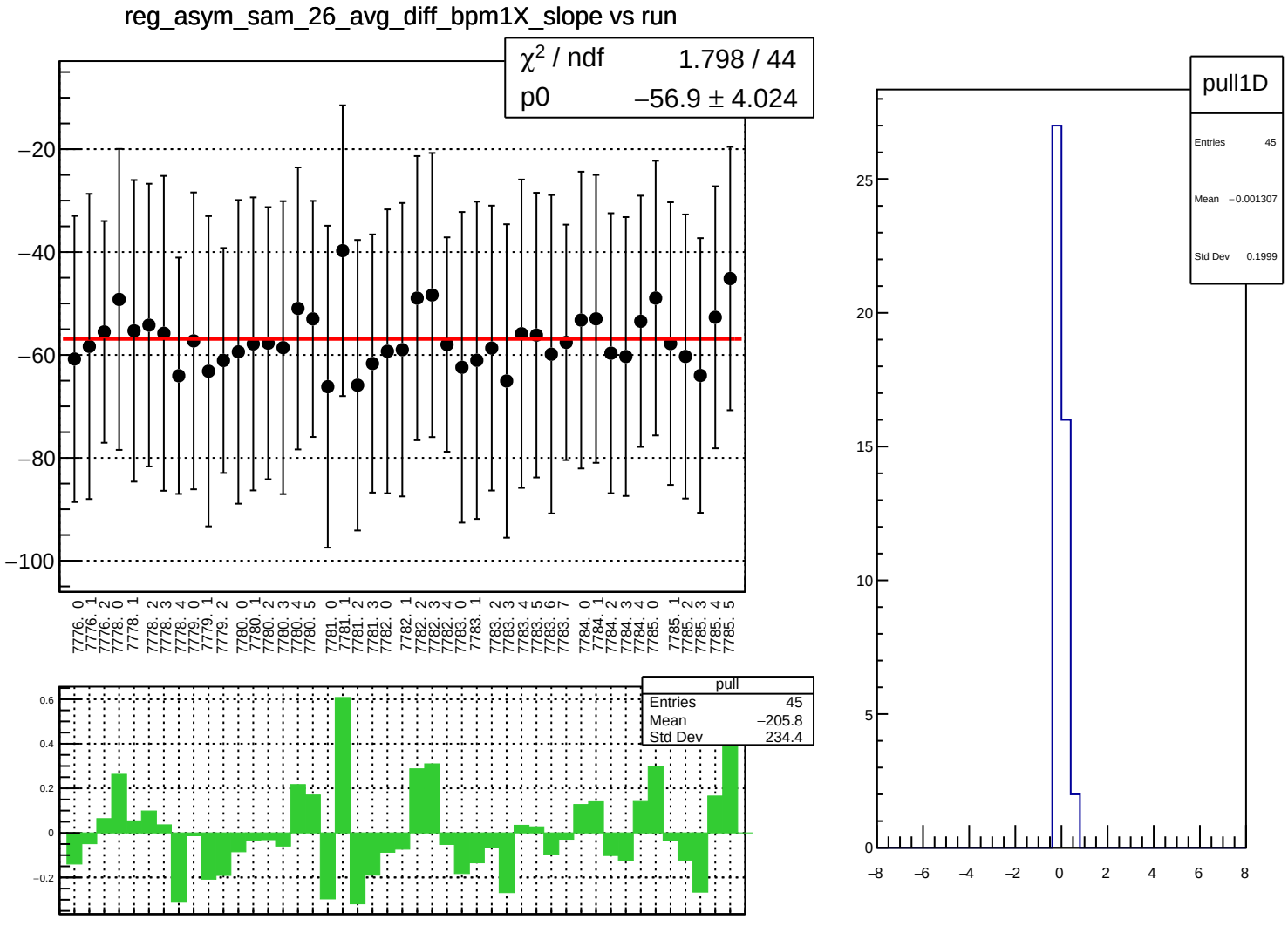

pull1D
Entries 45
Mean 0.003102
Std Dev 0.1444
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

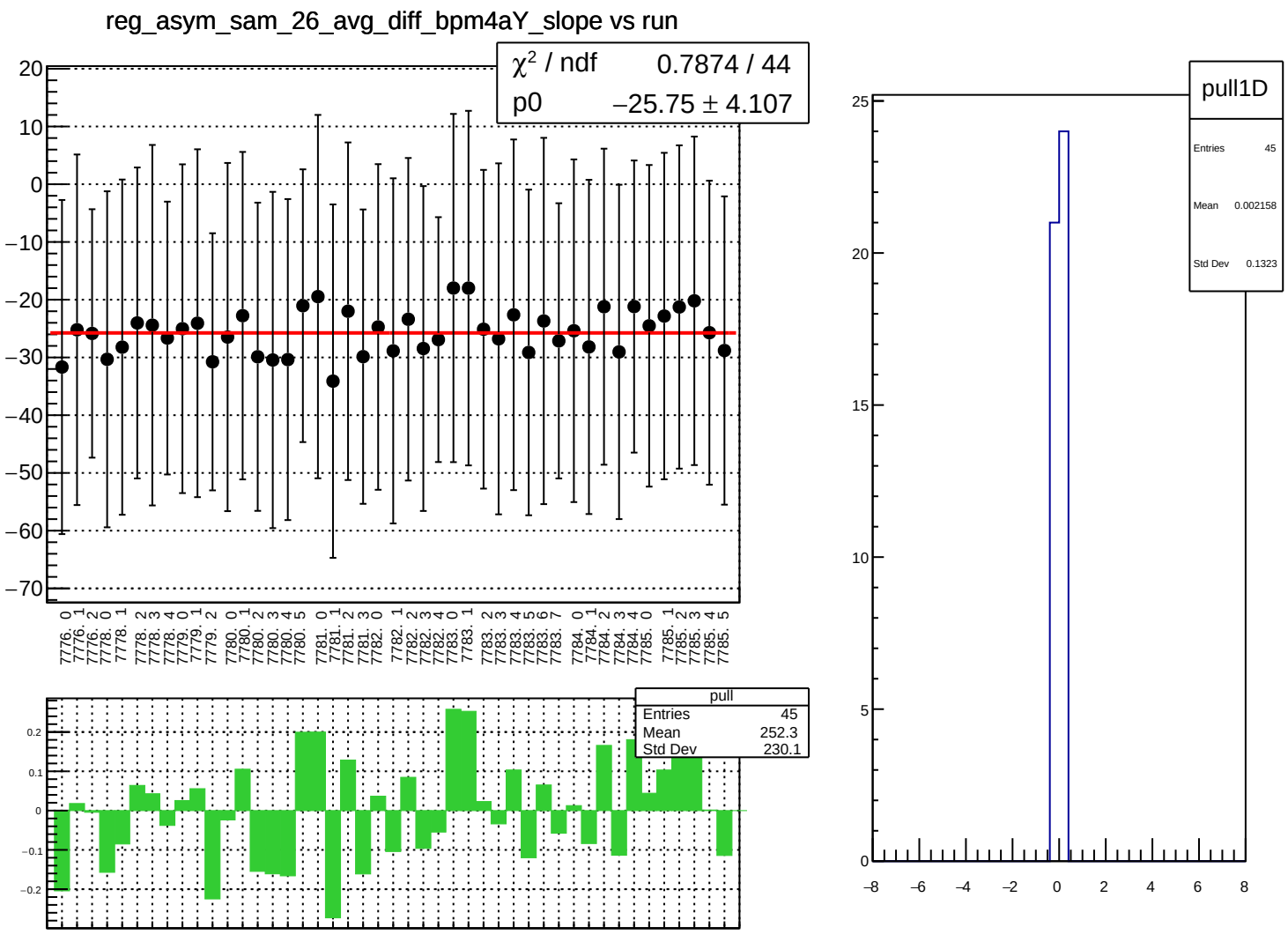

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.057 / 44
p0 5.727 ± 2.059
pull
Entries 45
Mean −517.5
Std Dev 537.3

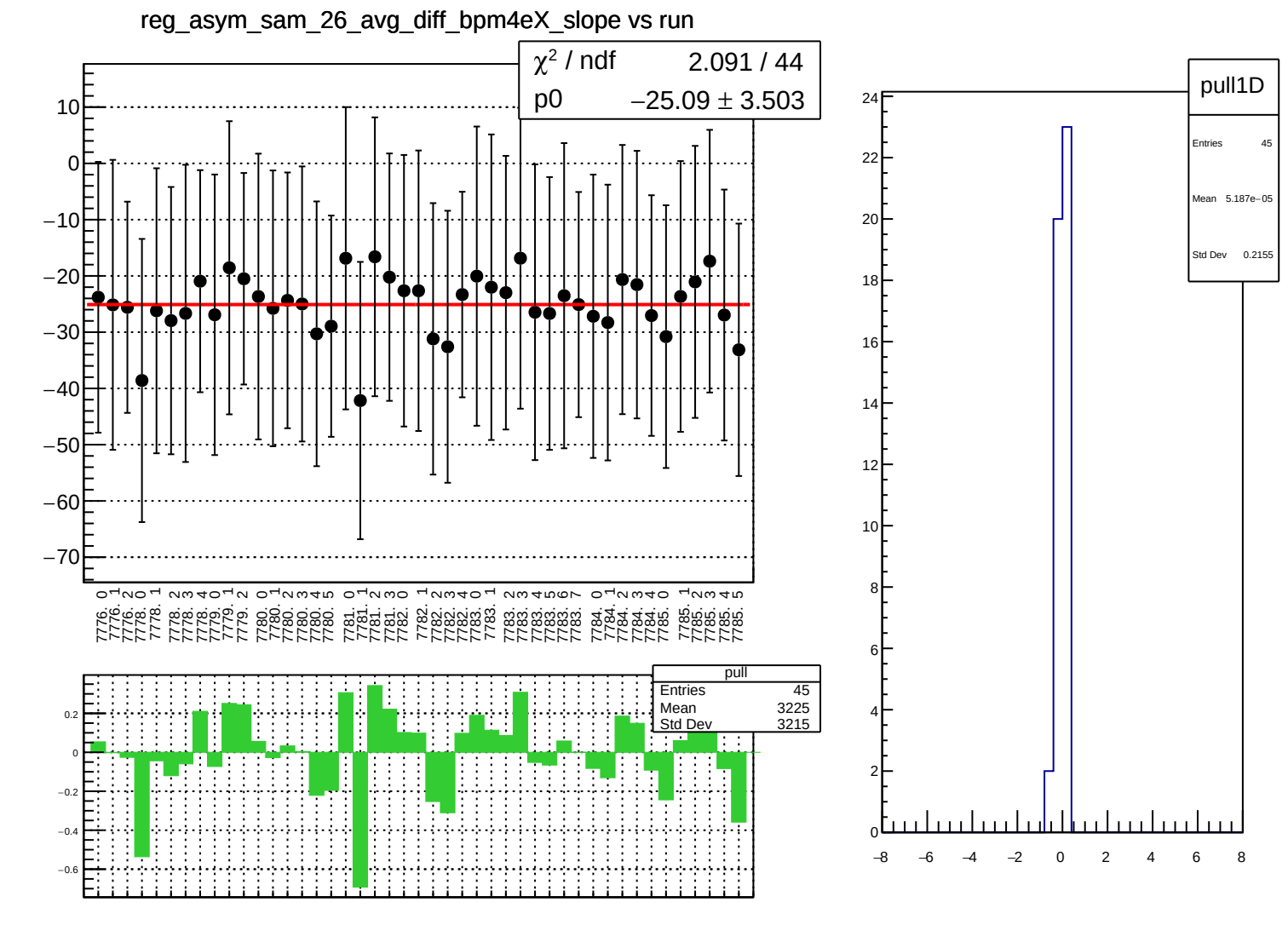

pull1D
Entries 45
Mean −0.0008604
Std Dev 0.2606

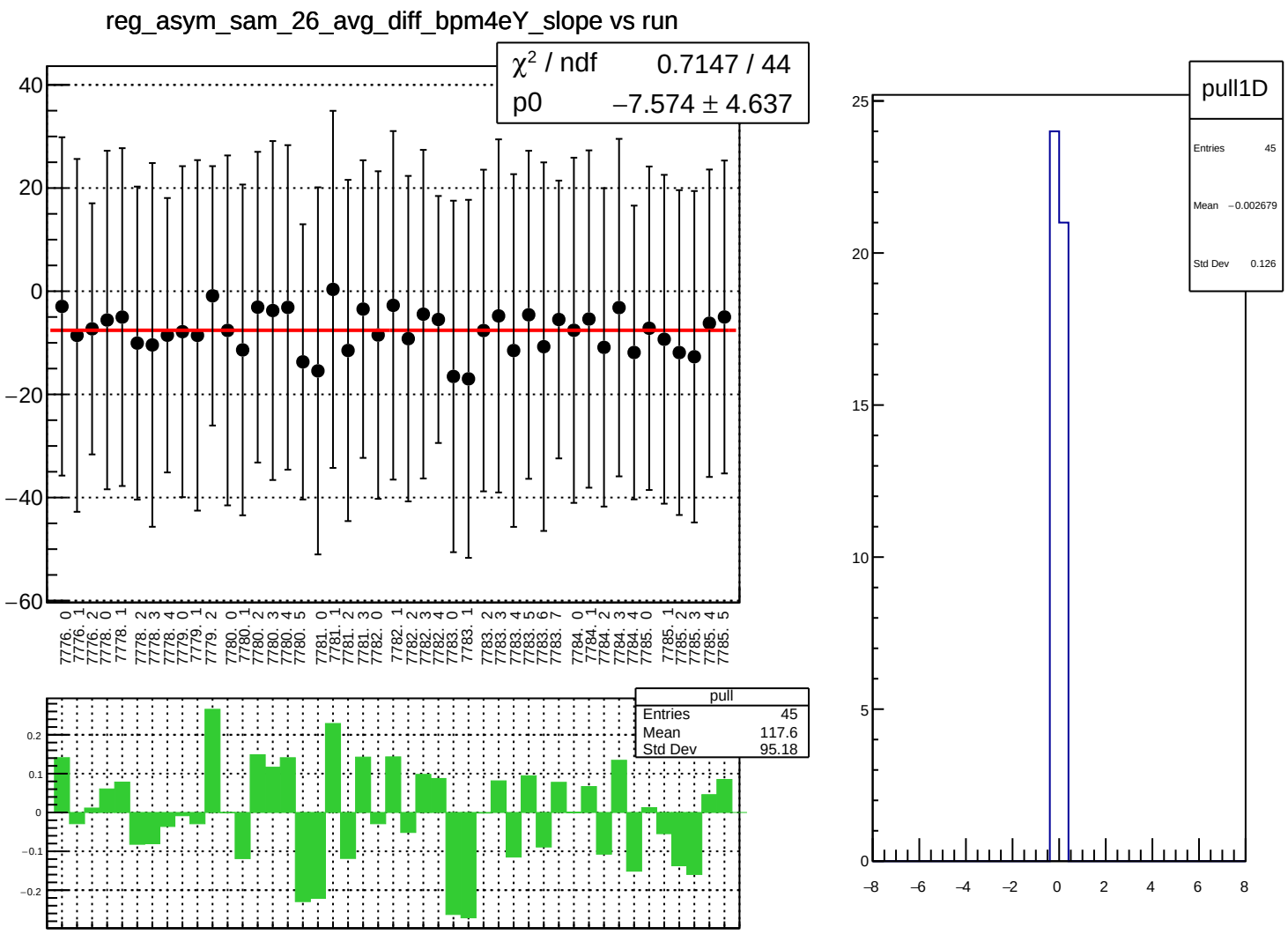

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.9744 / 44
p0 15.36 ± 2.726
40
30
20
10
0
−10
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 207.1
Std Dev 186.2
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.003282
Std Dev 0.1471
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

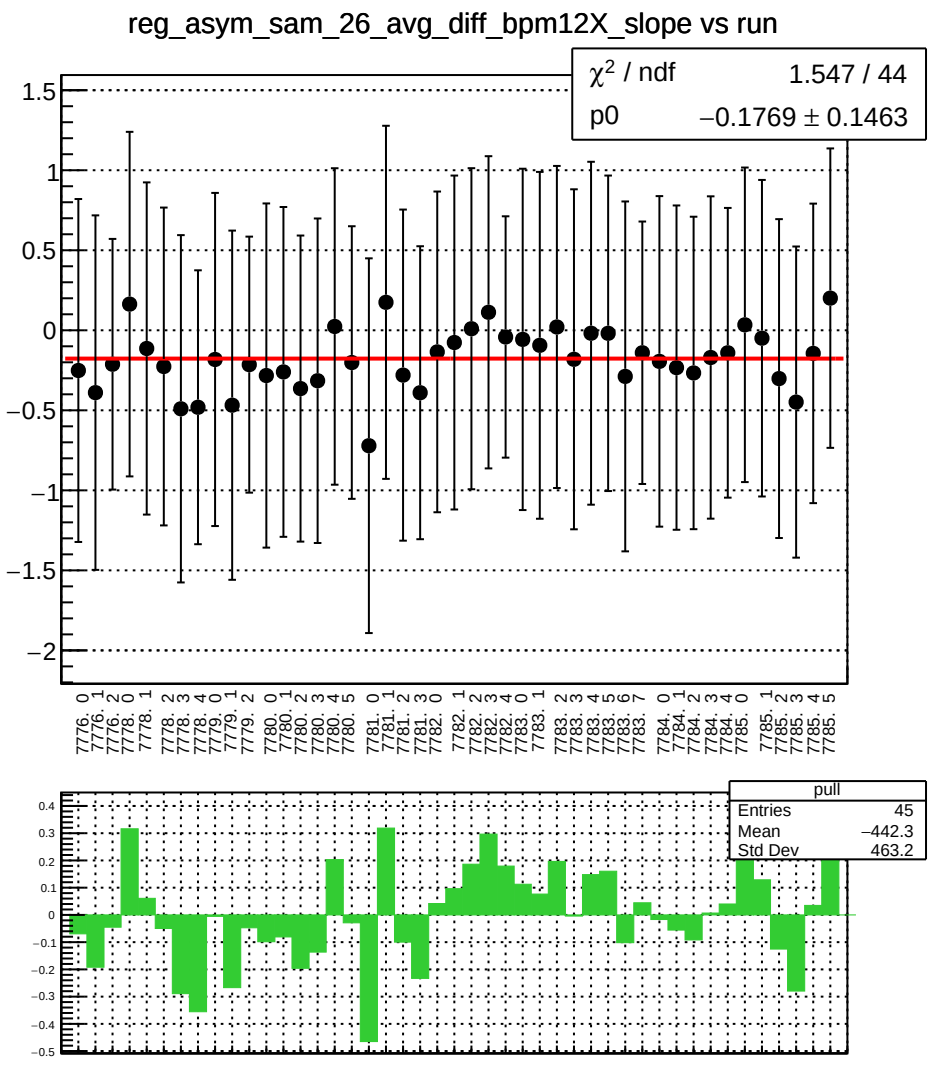

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.097 / 44
p0 −0.7765 ± 0.08599
0
−0.5
−1
−1.5
−2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −25.58
Std Dev 32.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.001815
Std Dev 0.2159
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

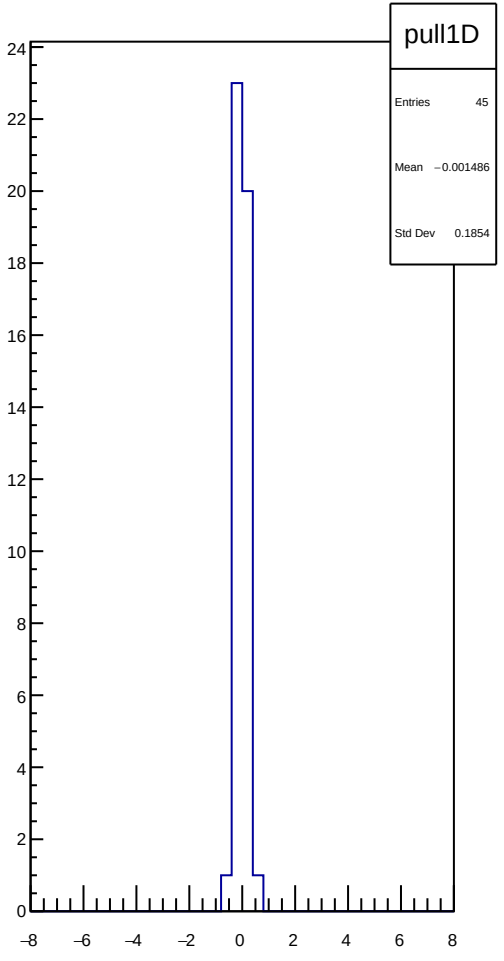

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 1.798 / 44
p0 −56.9 ± 4.024
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −205.8
Std Dev 234.4
0.6
0.4
0.2
0
−0.2
pull1D
Entries 45
Mean −0.001307
Std Dev 0.1999
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

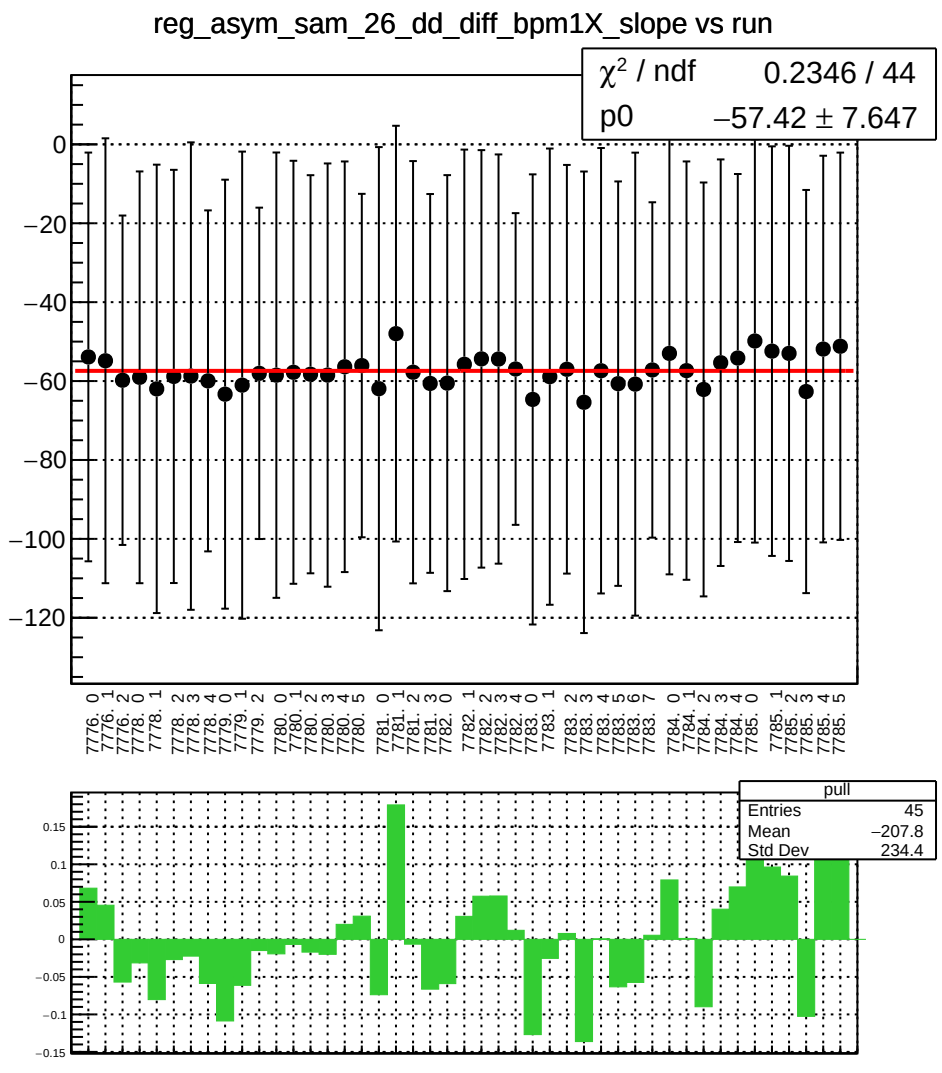

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.7874 / 44
p0 −25.75 ± 4.107
pull
Entries 45
Mean 252.3
Std Dev 230.1
pull1D
Entries 45
Mean 0.002158
Std Dev 0.1323

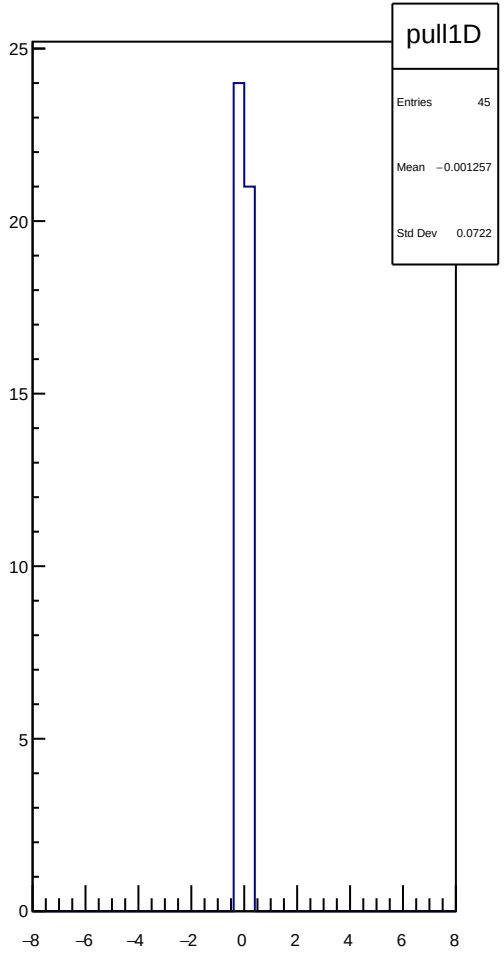

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.091 / 44
p0 −25.09 ± 3.503
pull
Entries 45
Mean 3225
Std Dev 3215
pull1D
Entries 45
Mean 5.187e−05
Std Dev 0.2155

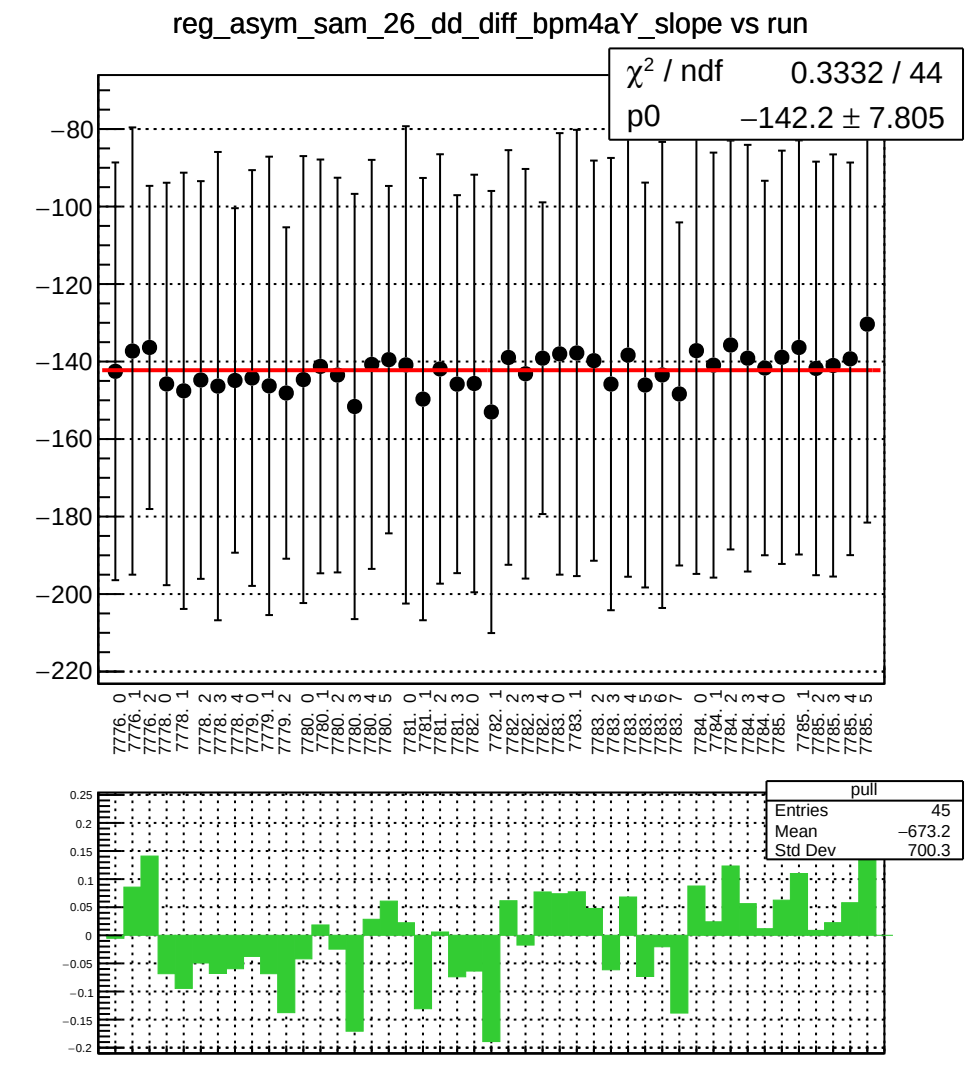

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.7147 / 44
p0 −7.574 ± 4.637
pull
Entries 45
Mean 117.6
Std Dev 95.18
pull1D
Entries 45
Mean −0.002679
Std Dev 0.126

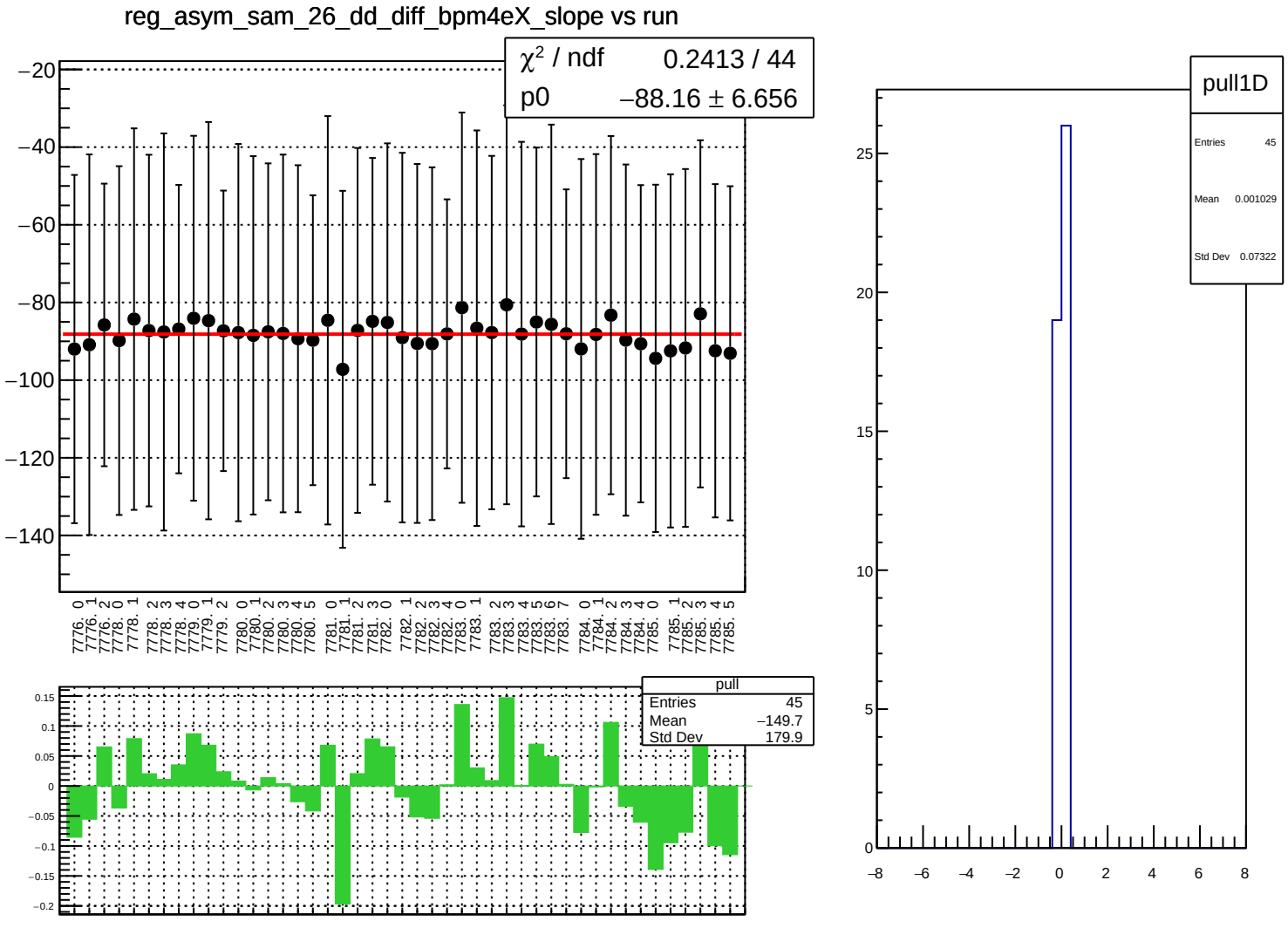

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 1.547 / 44
p0 −0.1769 ± 0.1463
pull
Entries 45
Mean −442.3
Std Dev 463.2

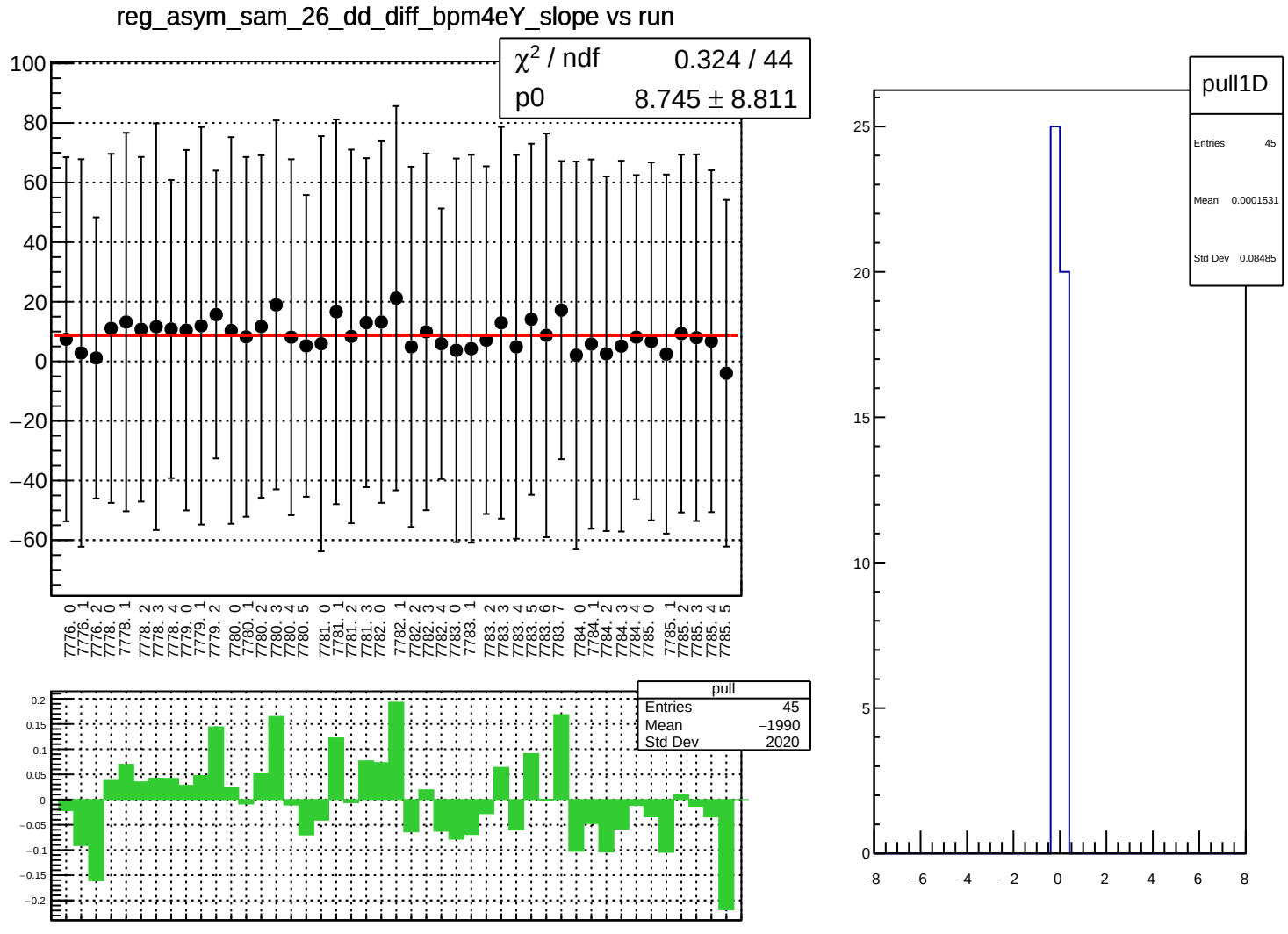

pull1D
Entries 45
Mean −0.001486
Std Dev 0.1854

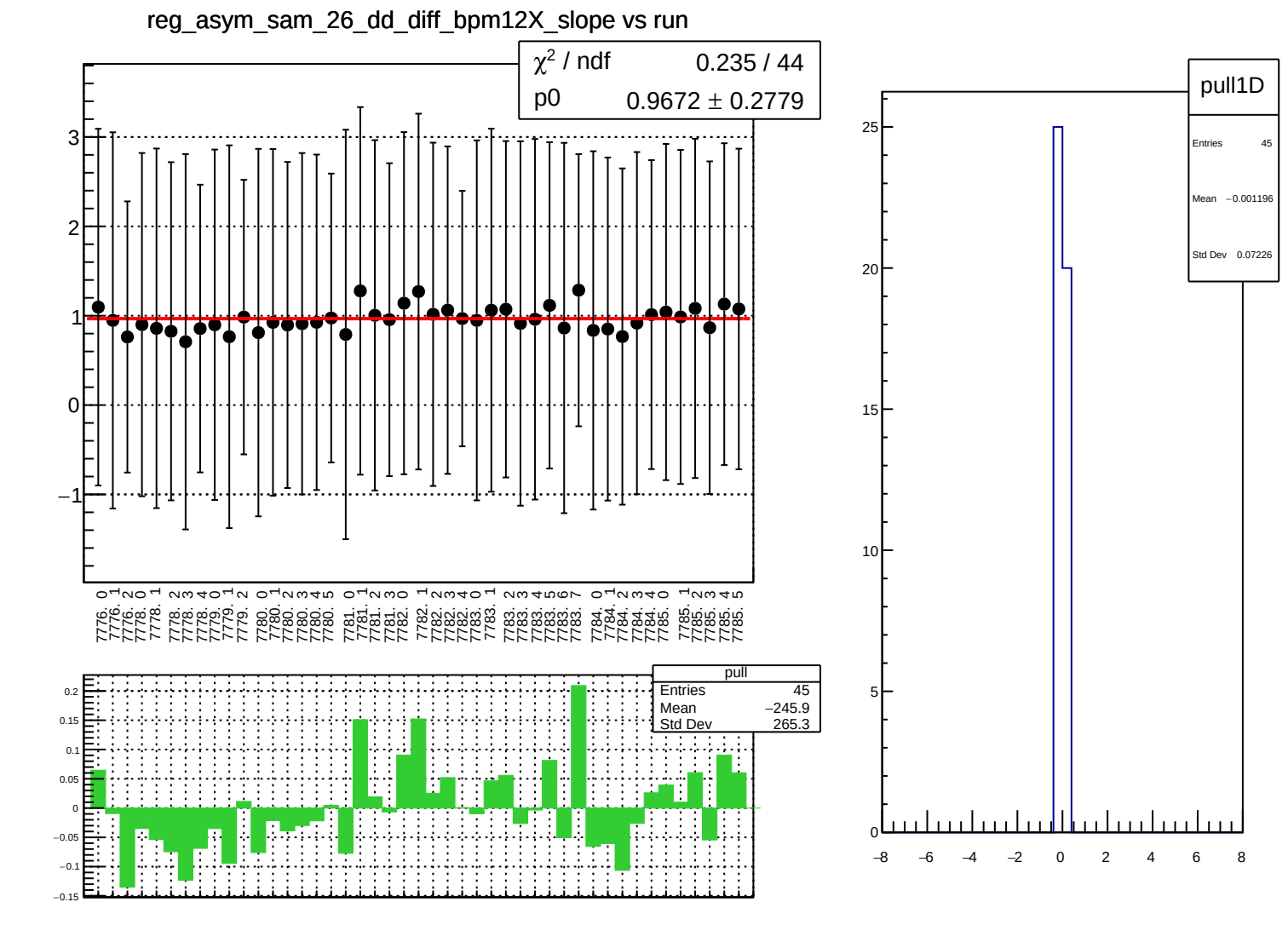

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.2346 / 44
p0 −57.42 ± 7.647
pull
Entries 45
Mean −207.8
Std Dev 234.4

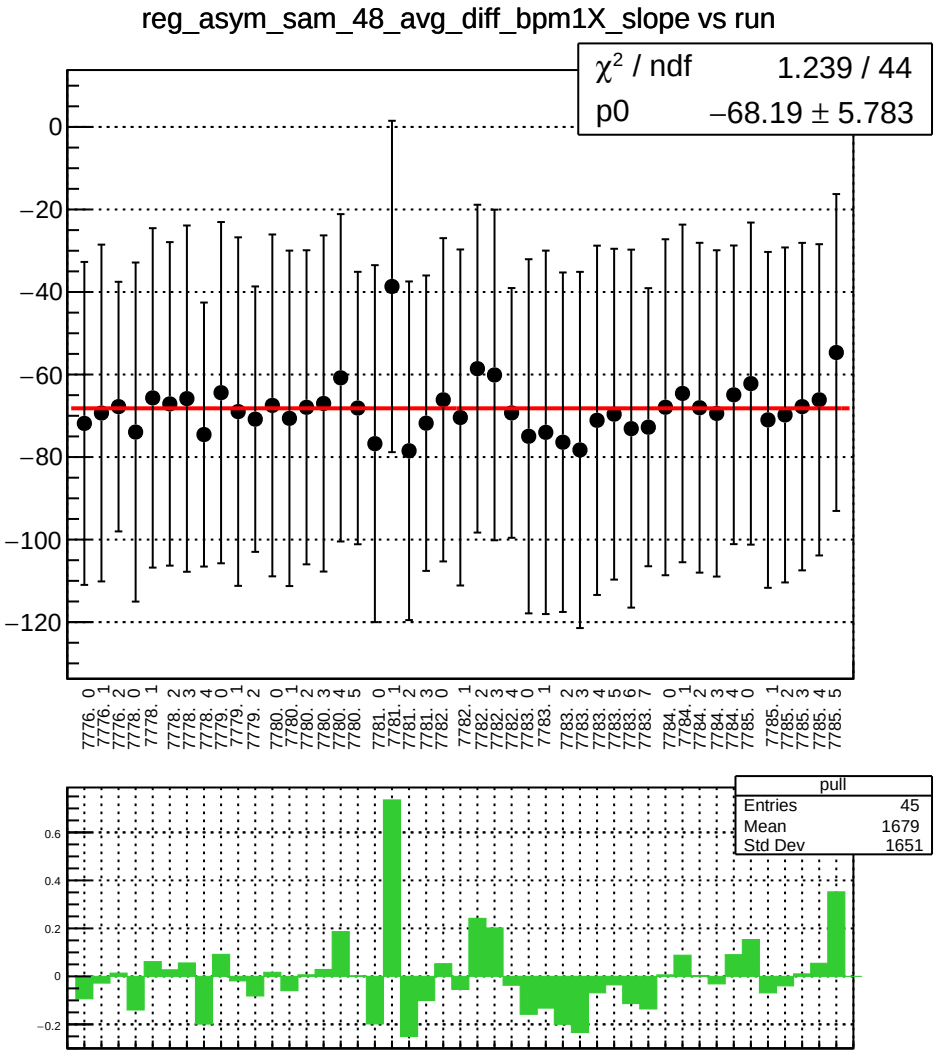

pull1D
Entries 45
Mean −0.001257
Std Dev 0.0722

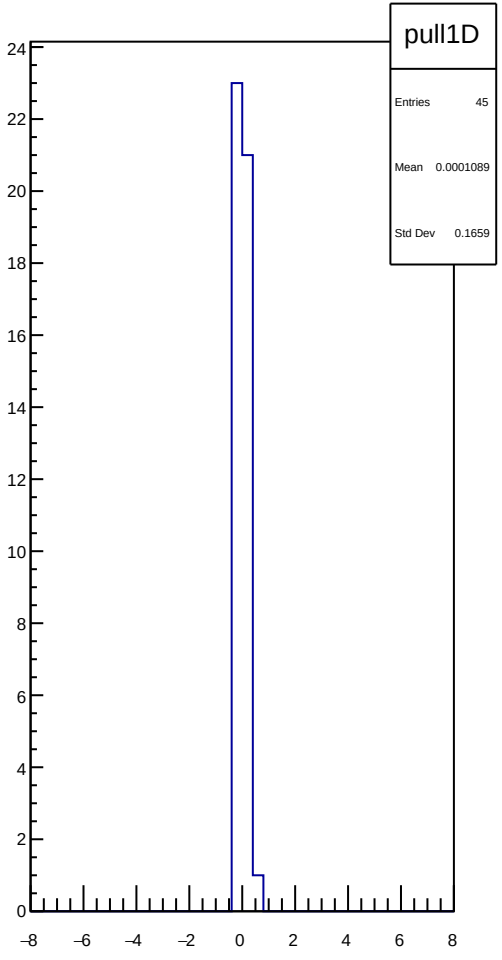

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.3332 / 44
p0 −142.2 ± 7.805
−80
−100
−120
−140
−160
−180
−200
−220
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −673.2
Std Dev 700.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 45
Mean −0.0006176
Std Dev 0.08604
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

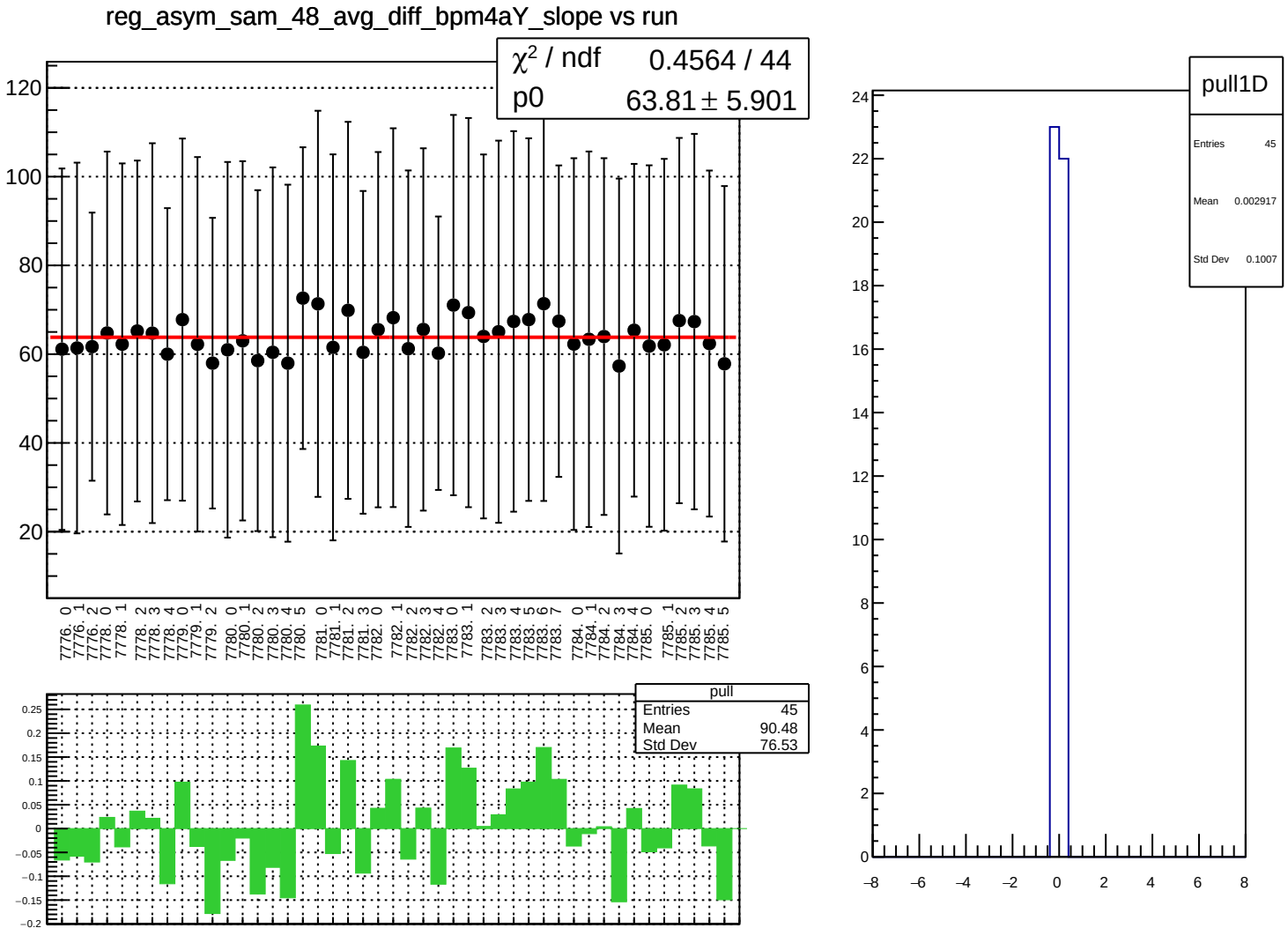

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.2413 / 44
p0 −88.16 ± 6.656
pull
Entries 45
Mean −149.7
Std Dev 179.9
pull1D
Entries 45
Mean 0.001029
Std Dev 0.07322

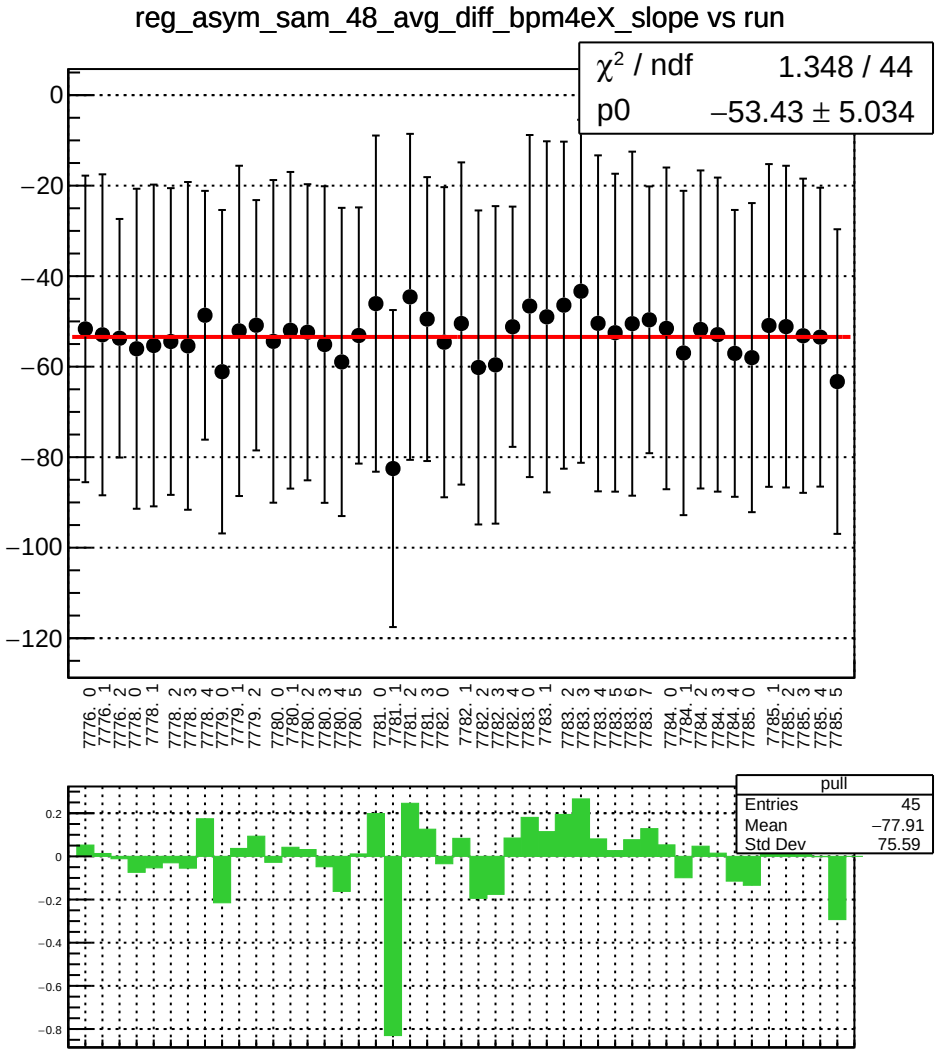

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.324 / 44
p0 8.745 ± 8.811
pull
Entries 45
Mean −1990
Std Dev 2020
pull1D
Entries 45
Mean 0.0001531
Std Dev 0.08485

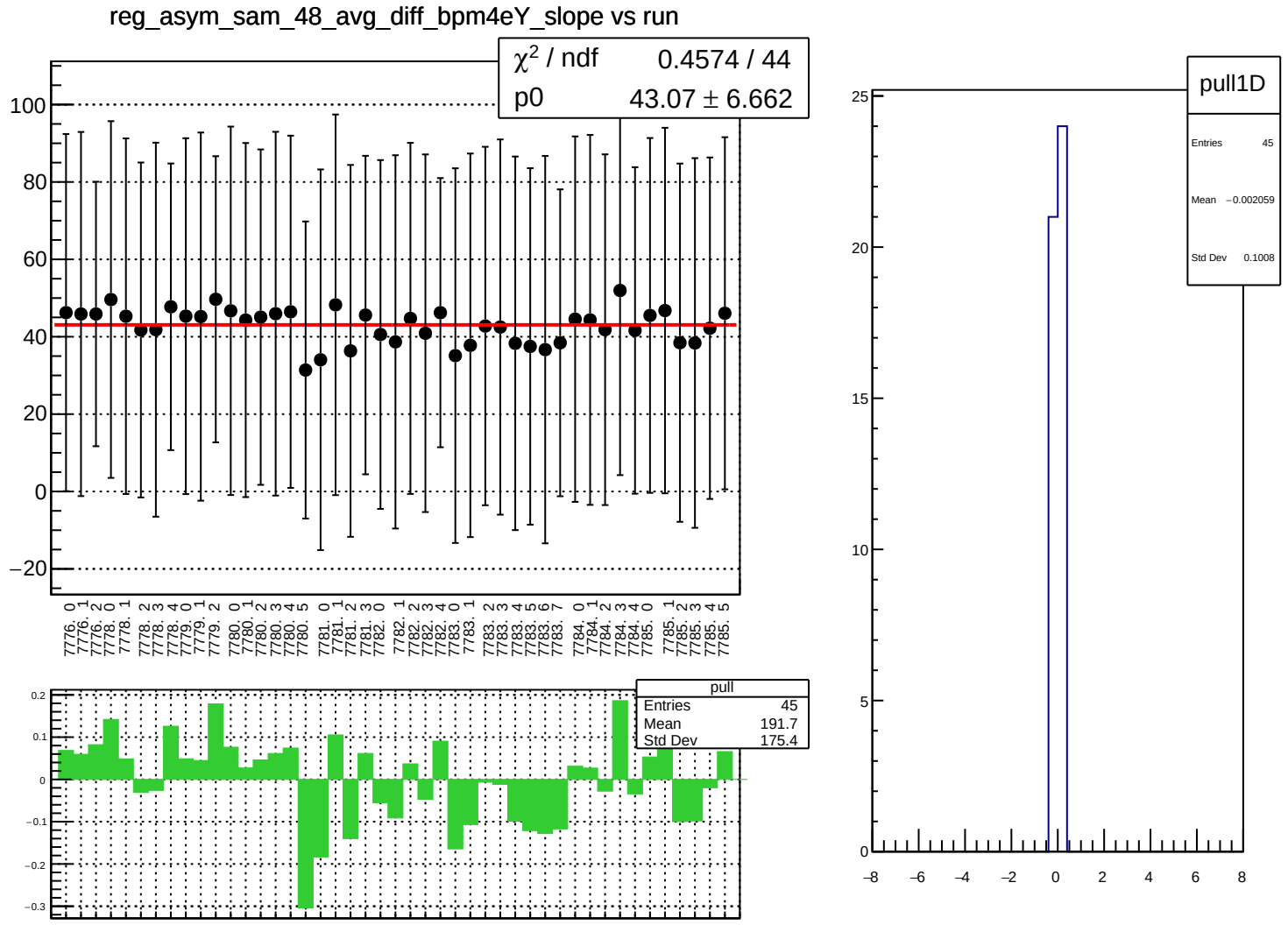

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 0.235 / 44
p0 0.9672 ± 0.2779
pull
Entries 45
Mean −245.9
Std Dev 265.3
pull1D
Entries 45
Mean −0.001196
Std Dev 0.07226

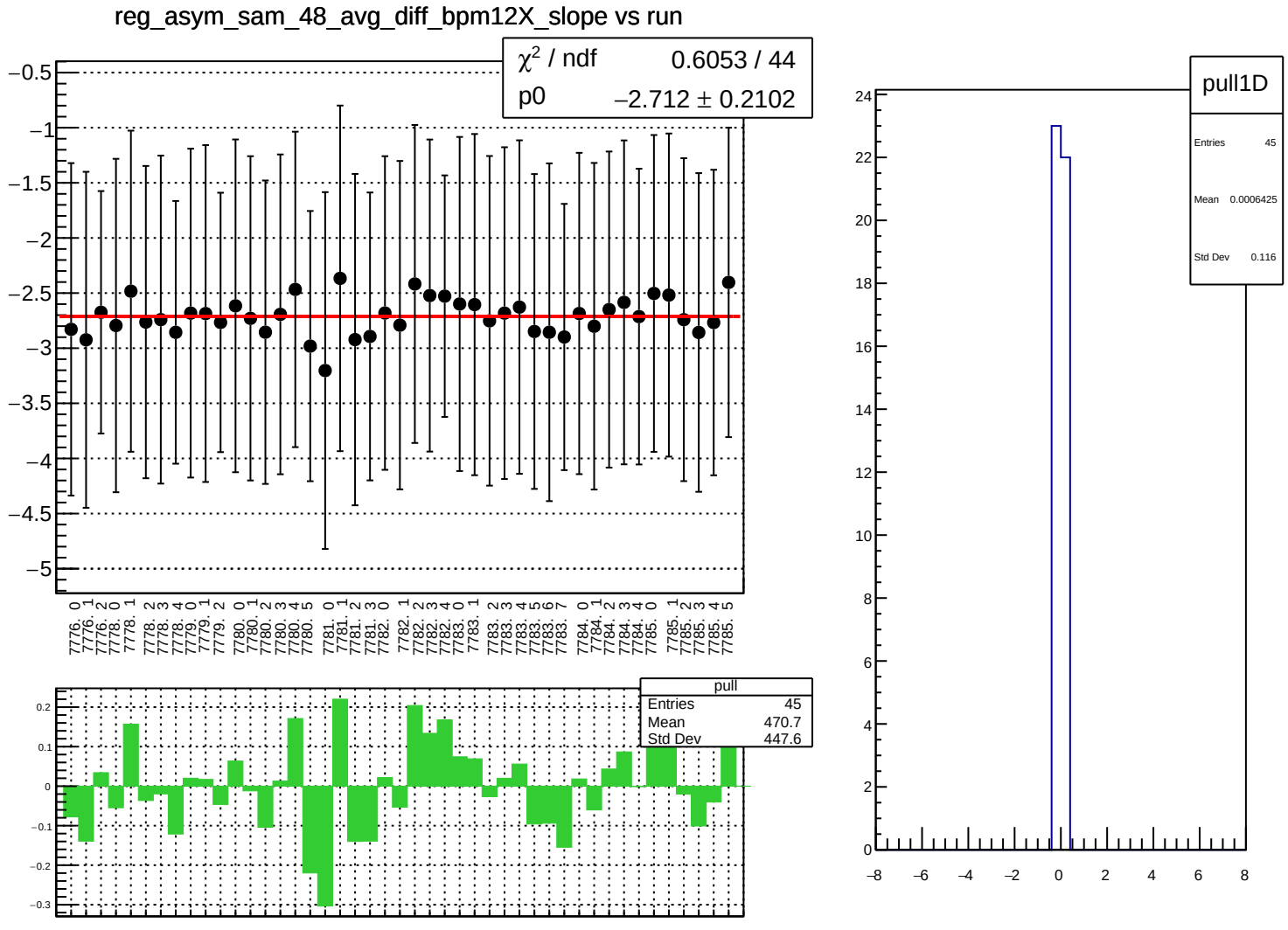

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1.239 / 44
p0 −68.19 ± 5.783
pull
Entries 45
Mean 1679
Std Dev 1651

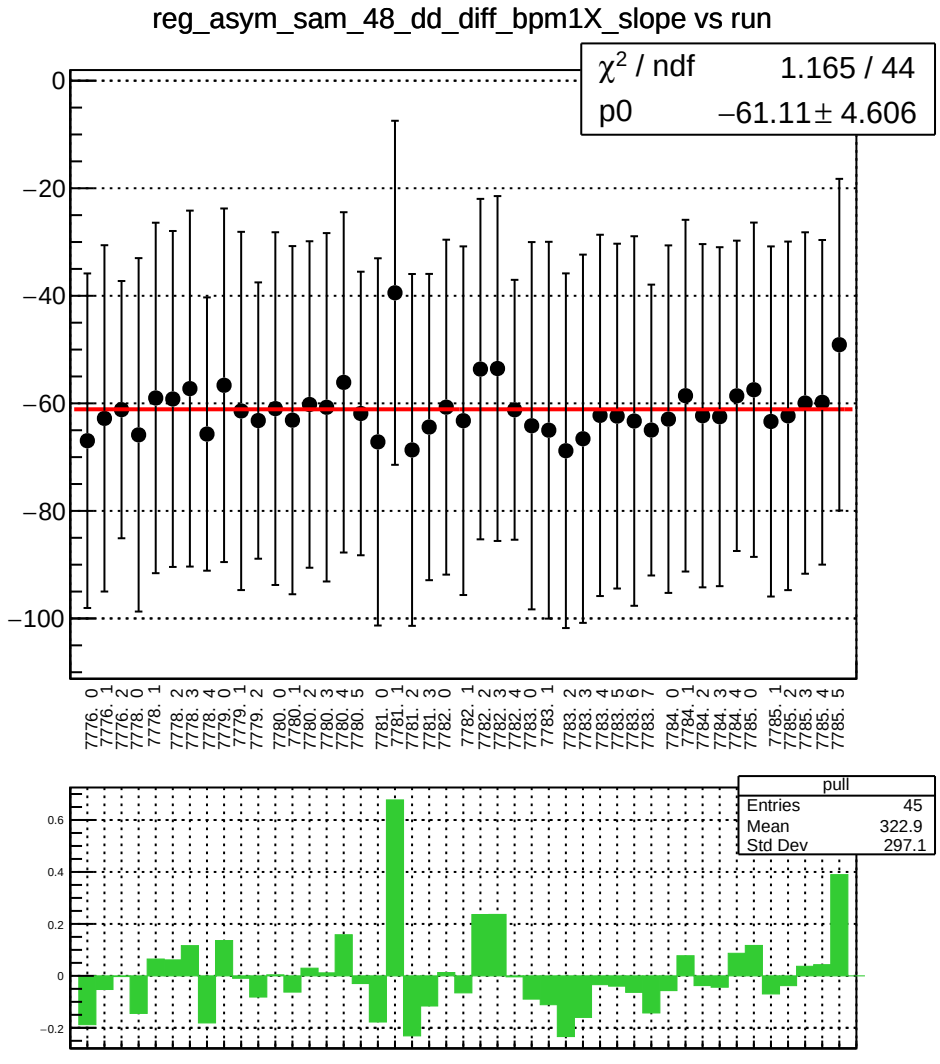

pull1D
Entries 45
Mean 0.0001089
Std Dev 0.1659

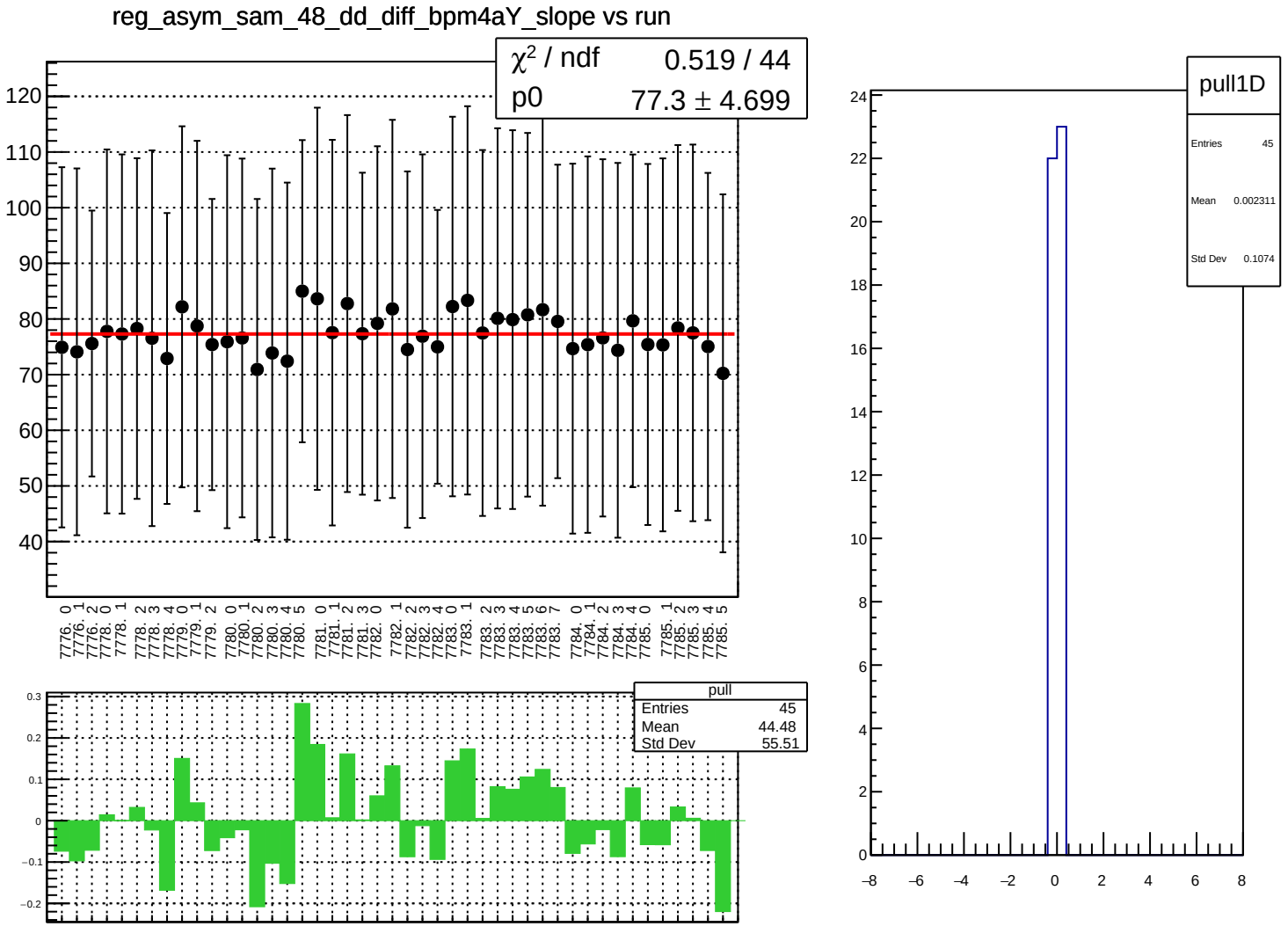

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4564 / 44
p0 63.81 ± 5.901
pull
Entries 45
Mean 90.48
Std Dev 76.53
pull1D
Entries 45
Mean 0.002917
Std Dev 0.1007

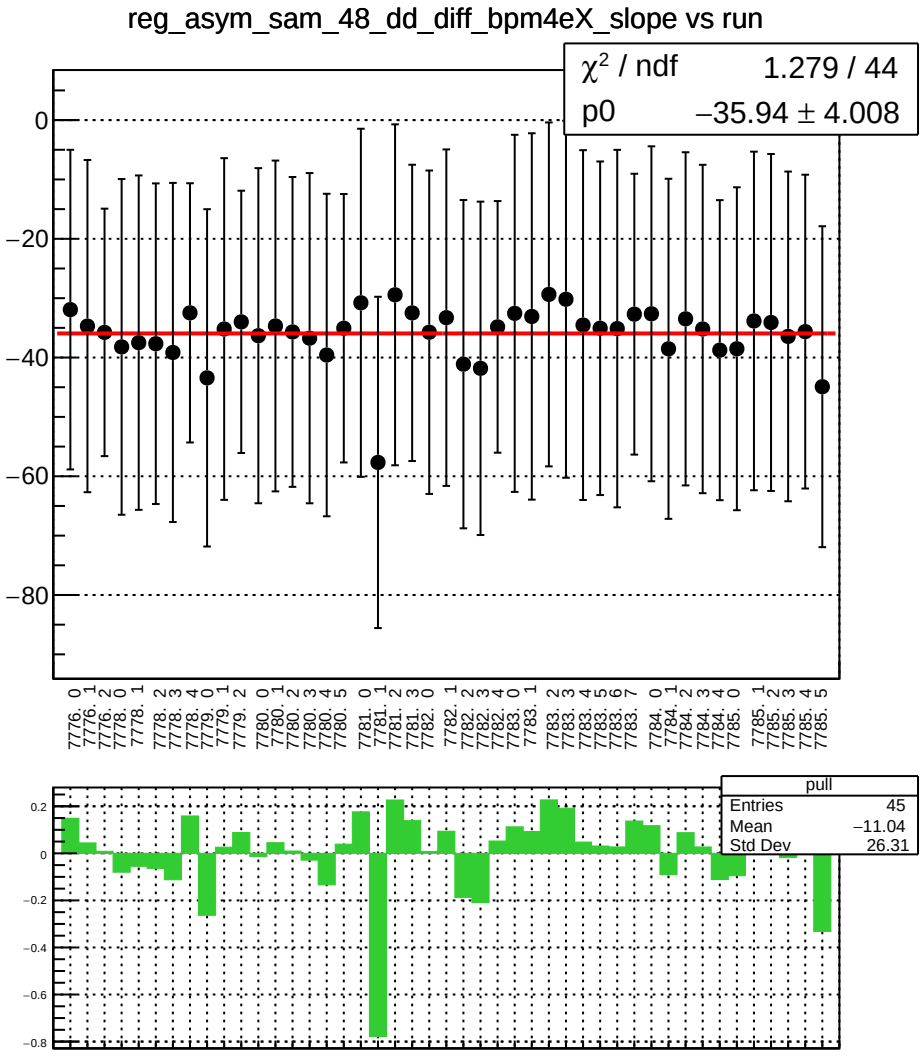

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.348 / 44
p0 −53.43 ± 5.034
0
−20
−40
−60
−80
−100
−120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −77.91
Std Dev 75.59
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0006978
Std Dev 0.1731
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

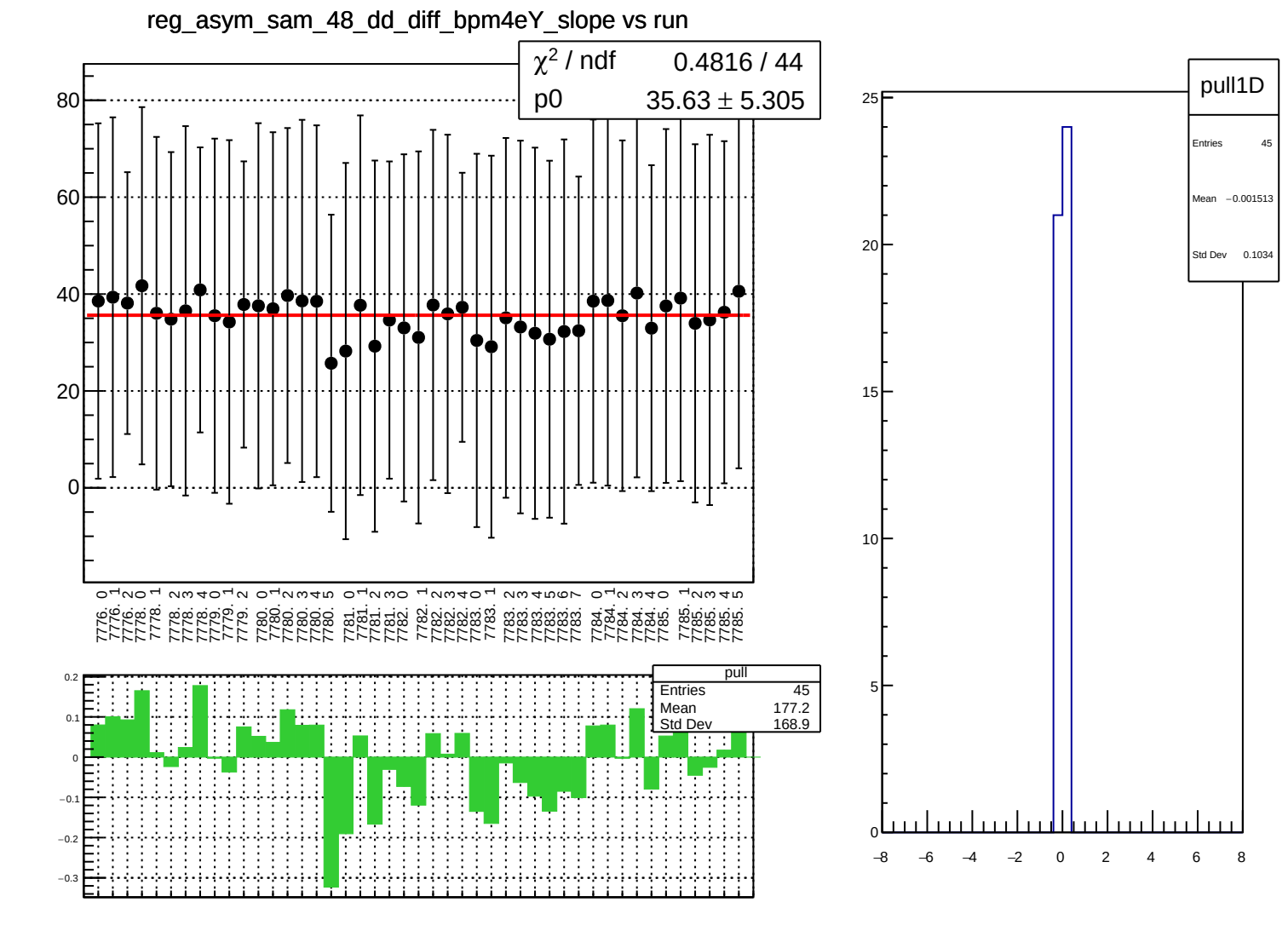

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4574 / 44
p0 43.07 ± 6.662
pull
Entries 45
Mean 191.7
Std Dev 175.4
pull1D
Entries 45
Mean −0.002059
Std Dev 0.1008


reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 0.6053 / 44
p0 −2.712 ± 0.2102
pull
Entries 45
Mean 470.7
Std Dev 447.6
pull1D
Entries 45
Mean 0.0006425
Std Dev 0.116


reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.165 / 44
p0 −61.11 ± 4.606
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 322.9
Std Dev 297.1
0.6
0.4
0.2
0
−0.2
pull1D
Entries 45
Mean 0.0006999
Std Dev 0.1609
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.519 / 44
p0 77.3 ± 4.699
pull
Entries 45
Mean 44.48
Std Dev 55.51
pull1D
Entries 45
Mean 0.002311
Std Dev 0.1074


reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.279 / 44
p0 −35.94 ± 4.008
0
−20
−40
−60
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −11.04
Std Dev 26.31
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.001305
Std Dev 0.1686
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4816 / 44
p0 35.63 ± 5.305
80
60
40
20
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
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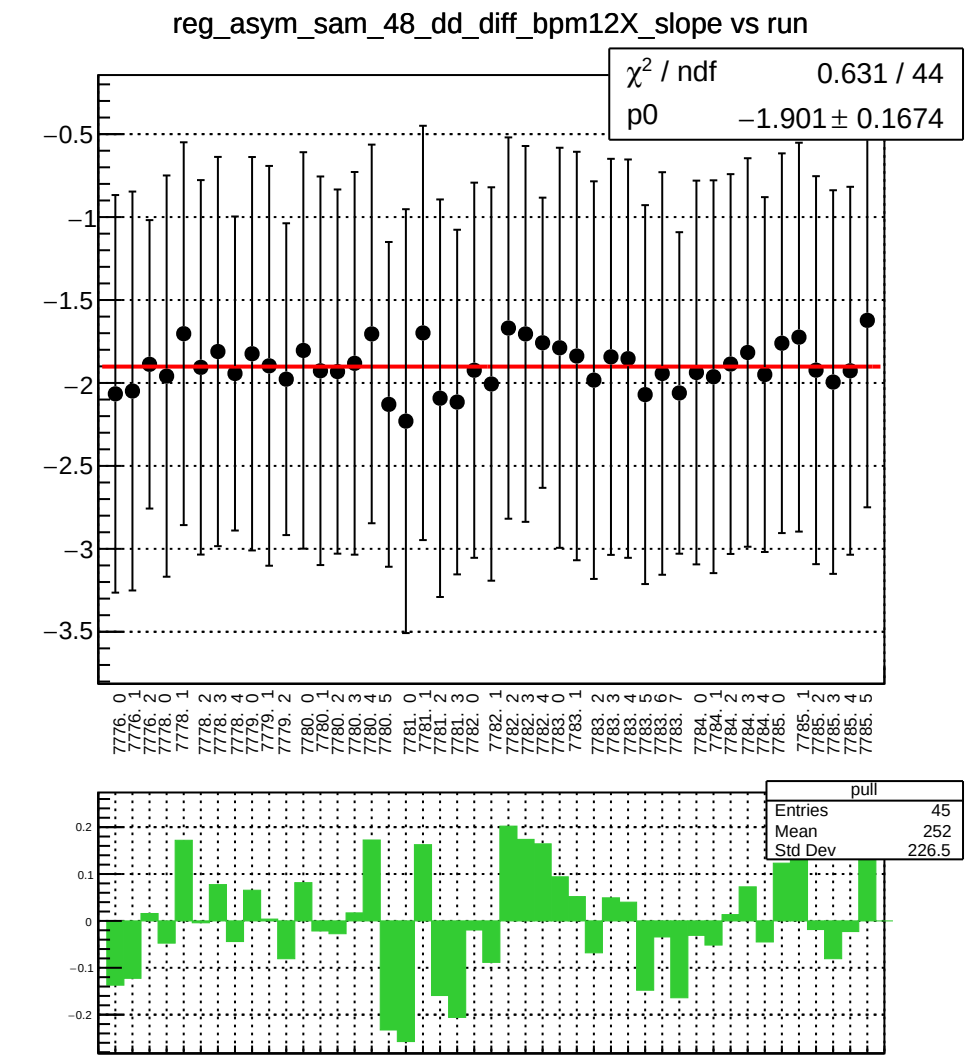
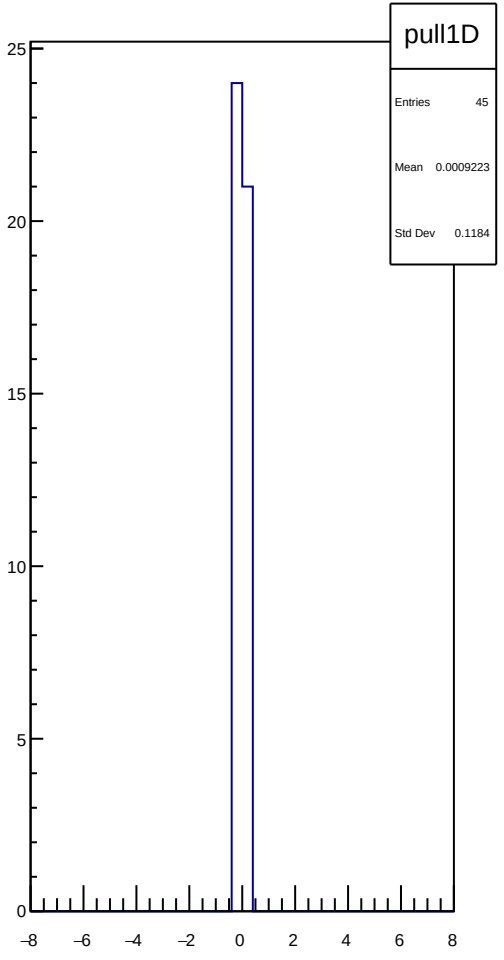
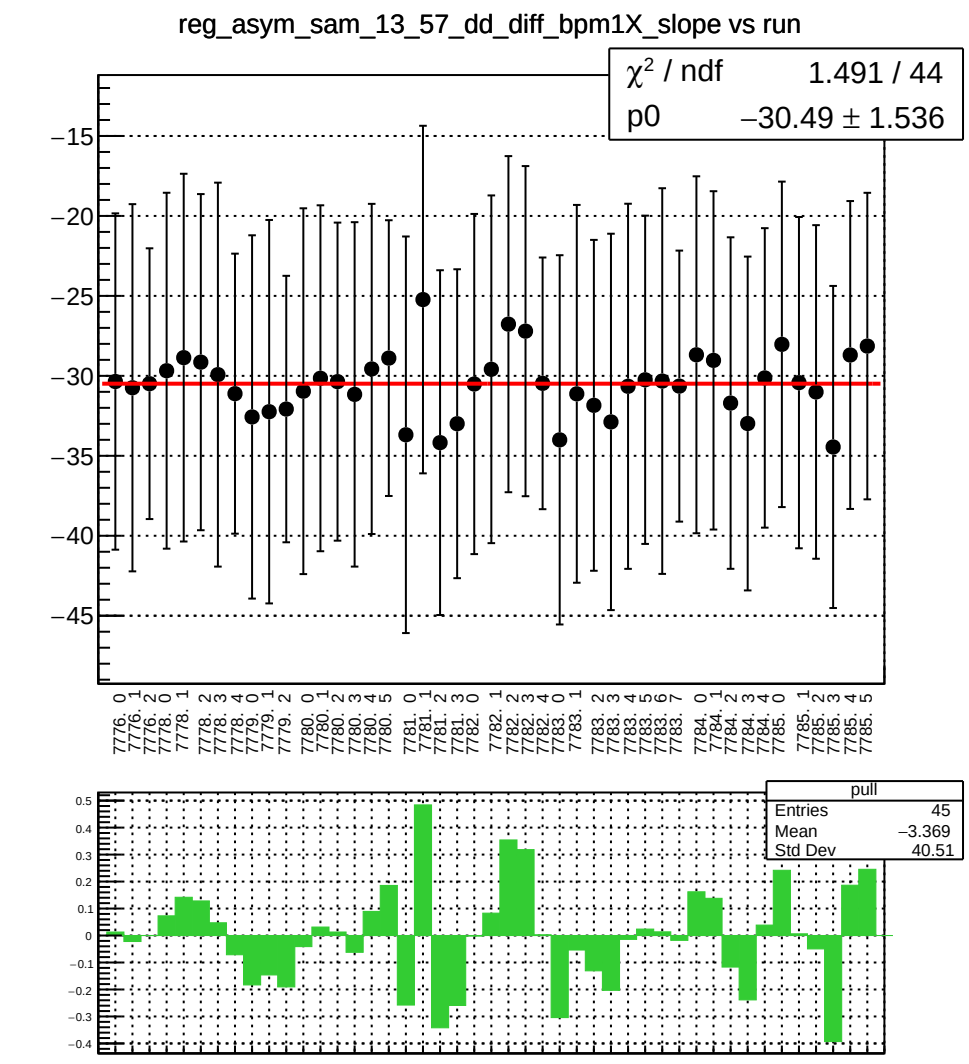
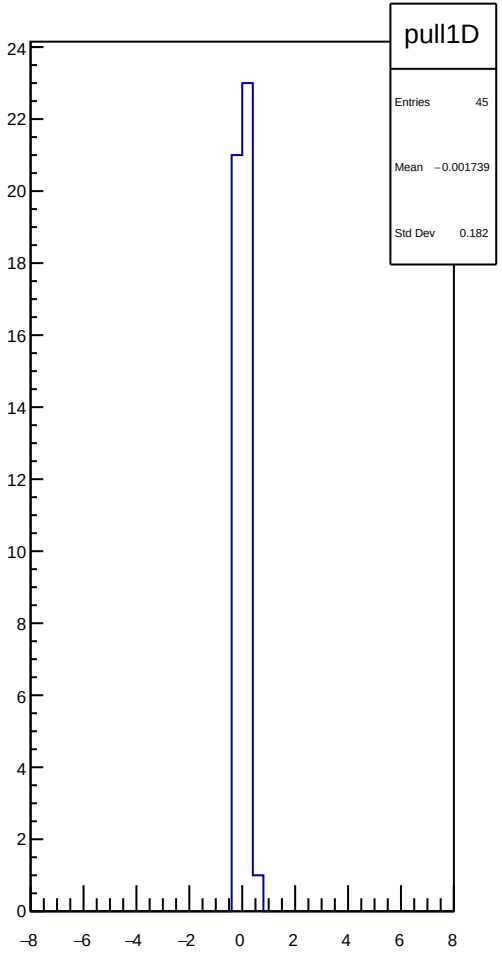
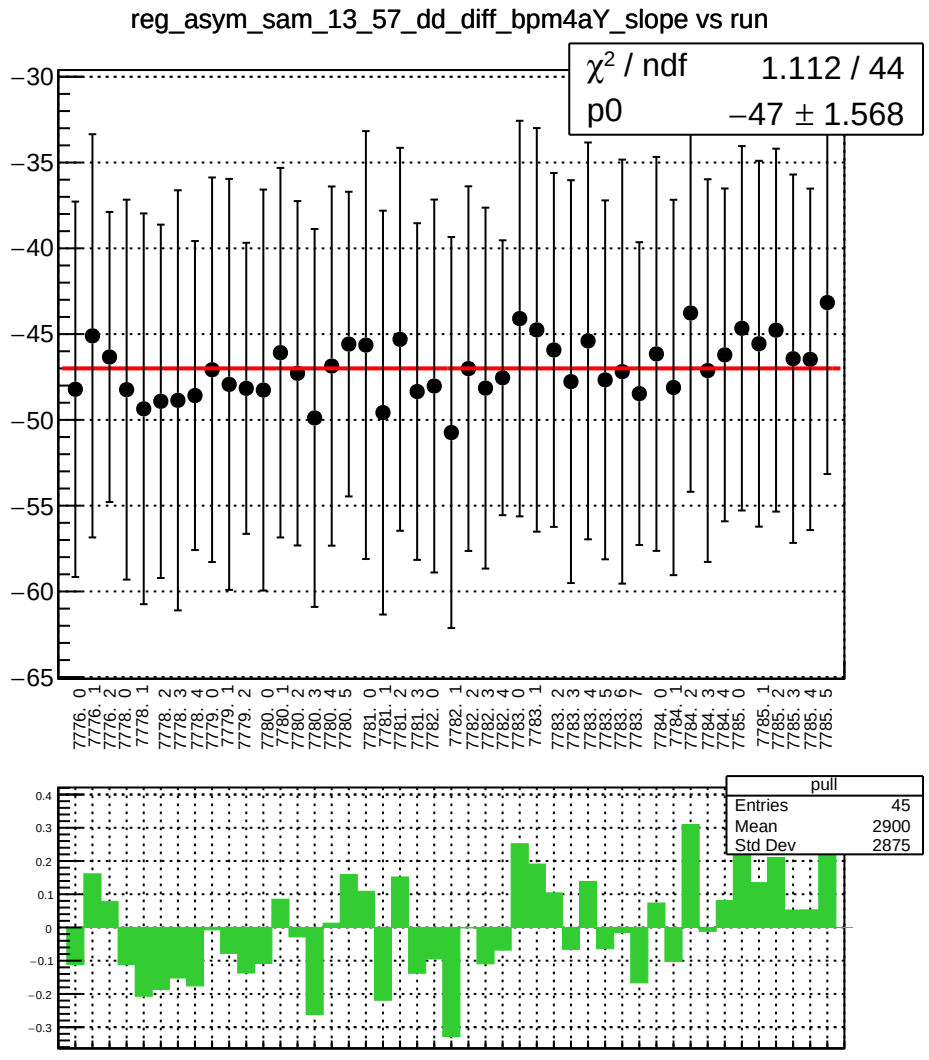
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 177.2
Std Dev 168.9
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.001513
Std Dev 0.1034
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

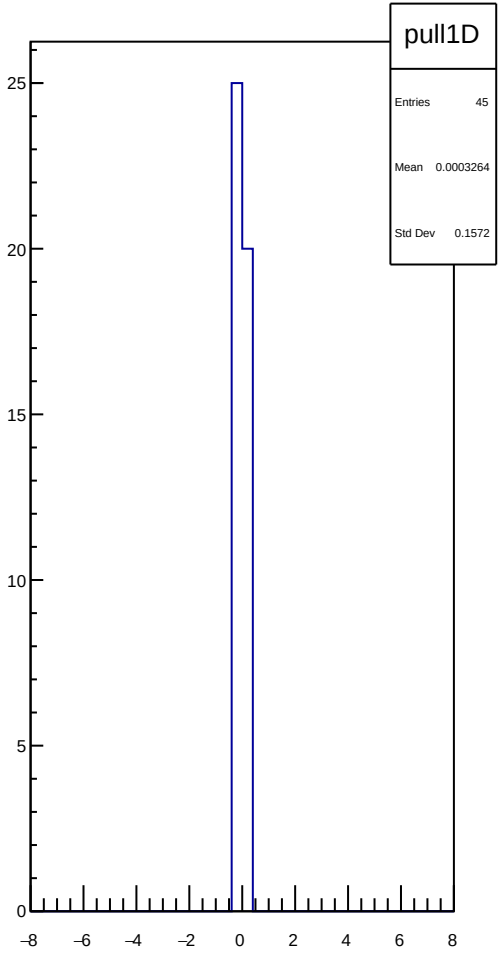

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.631 / 44
p0 −1.901 ± 0.1674
pull
Entries 45
Mean 252
Std Dev 226.5

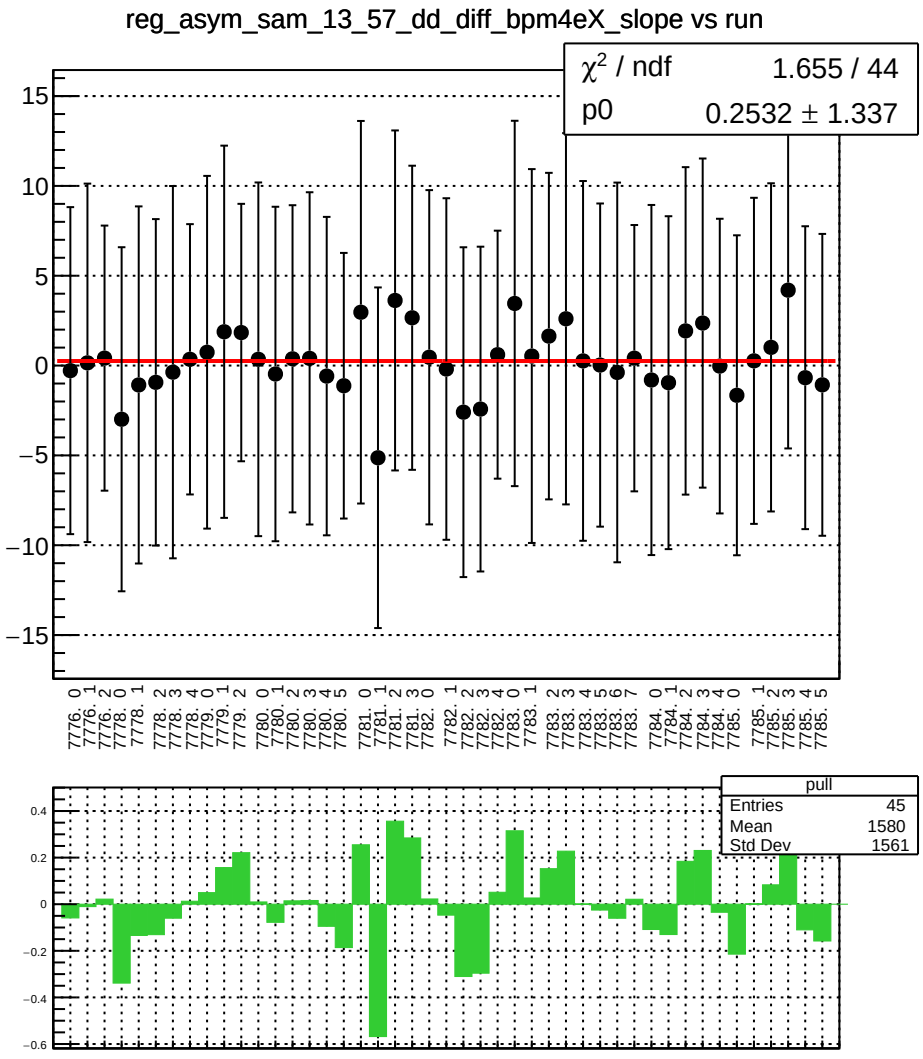

pull1D
Entries 45
Mean 0.0009223
Std Dev 0.1184

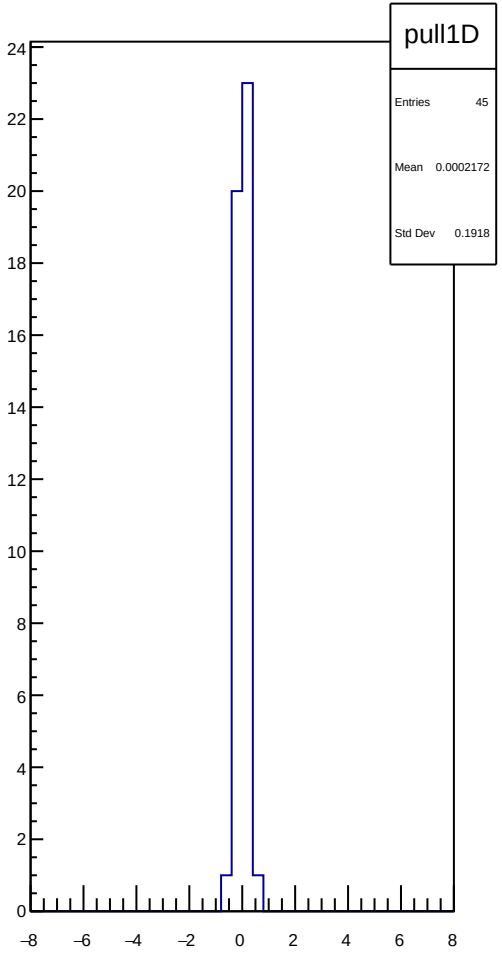

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 1.491 / 44
p0 −30.49 ± 1.536
pull
Entries 45
Mean −3.369
Std Dev 40.51

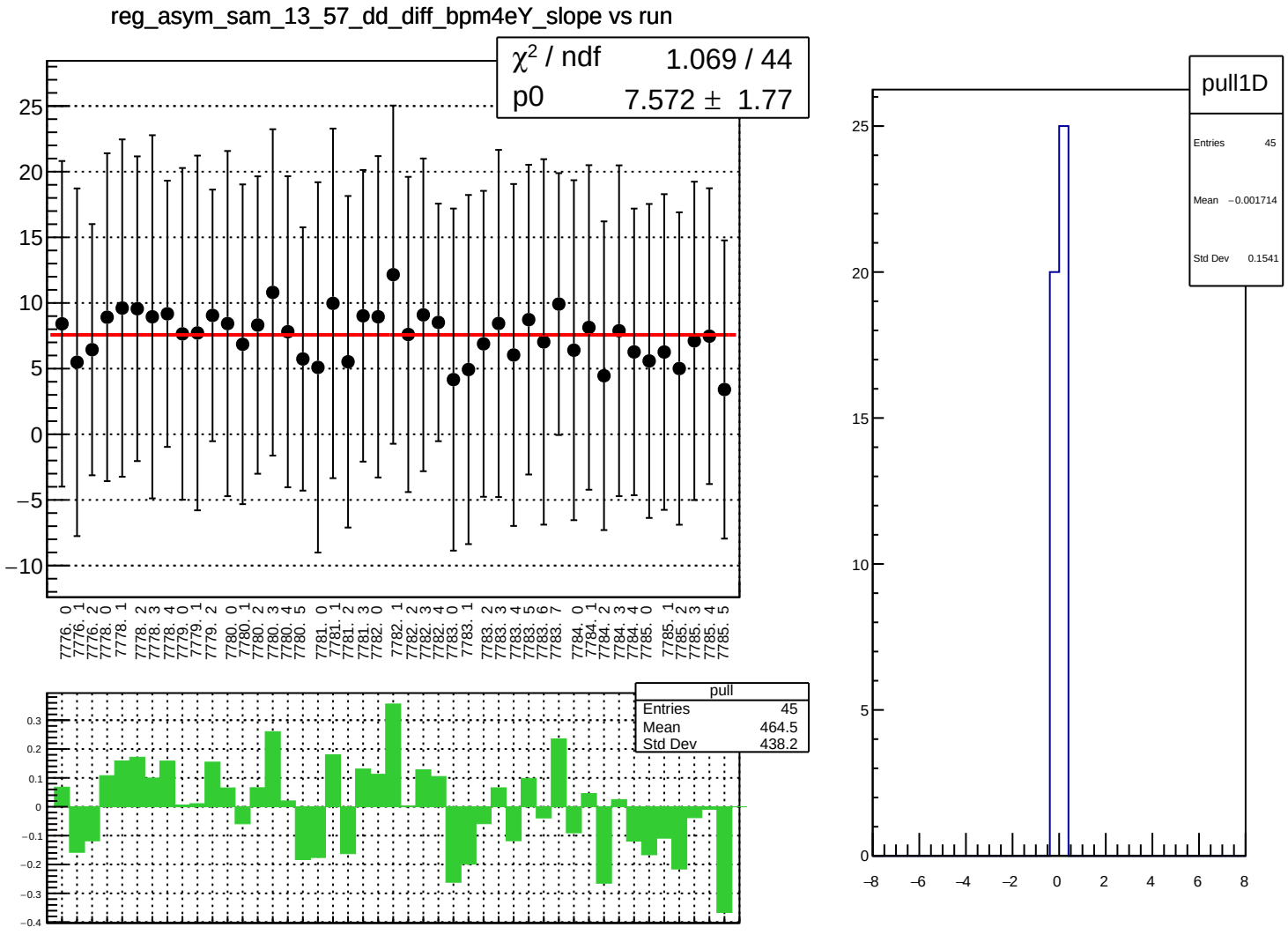

pull1D
Entries 45
Mean −0.001739
Std Dev 0.182

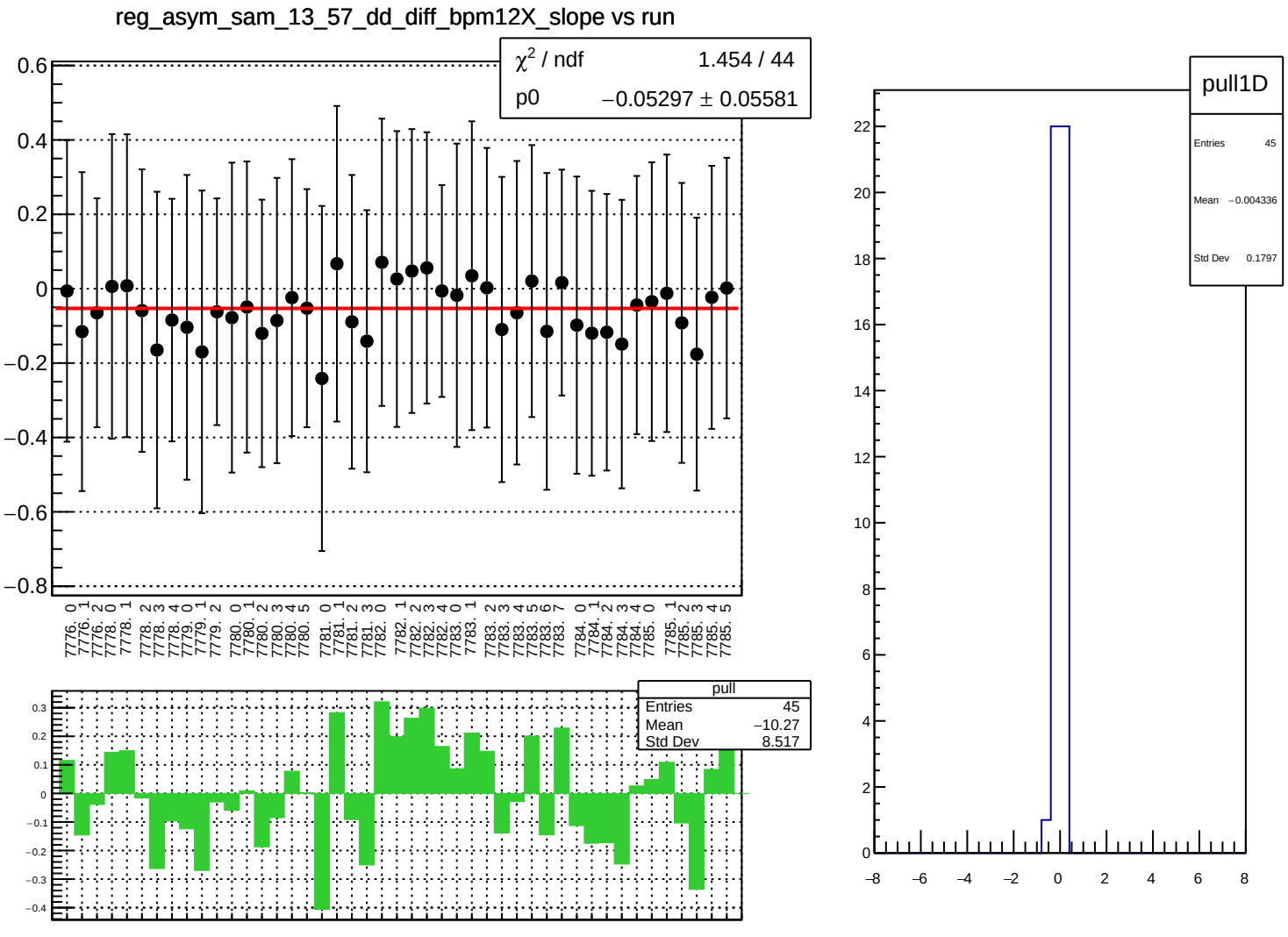

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.112 / 44
p0 −47 ± 1.568
pull
Entries 45
Mean 2900
Std Dev 2875

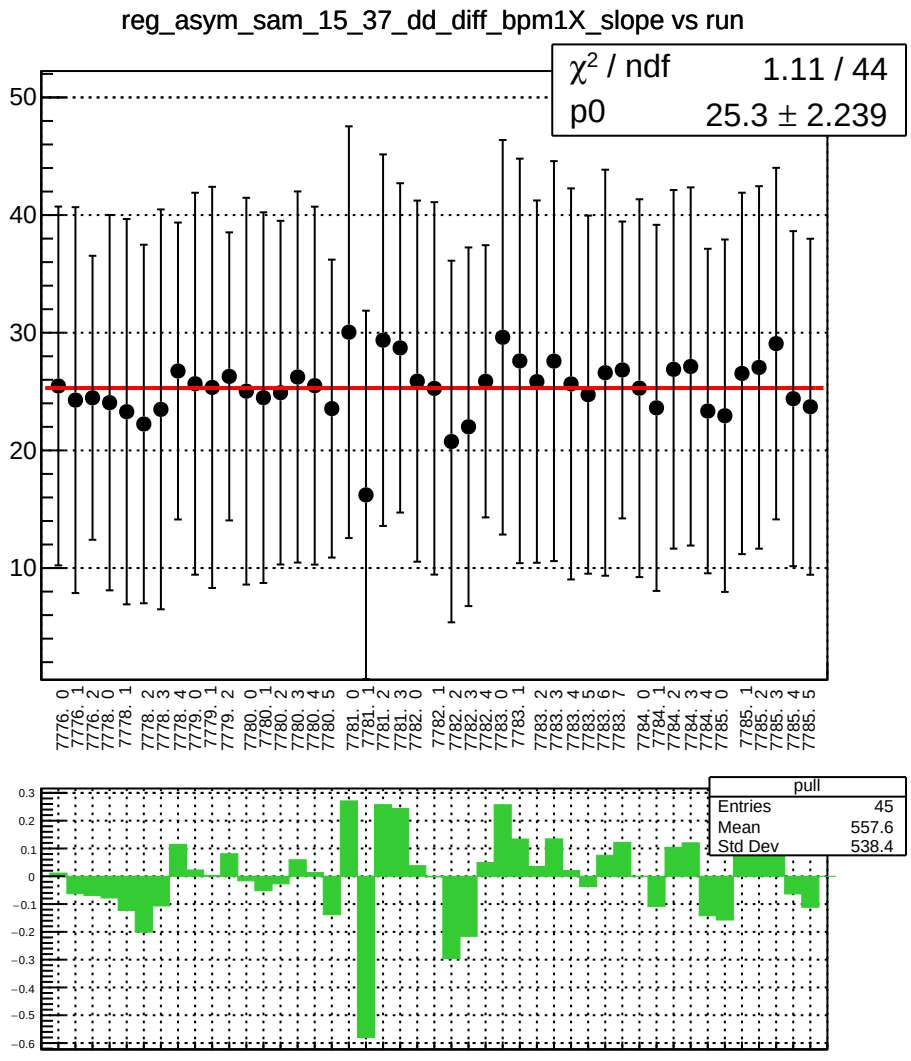

pull1D
Entries 45
Mean 0.0003264
Std Dev 0.1572

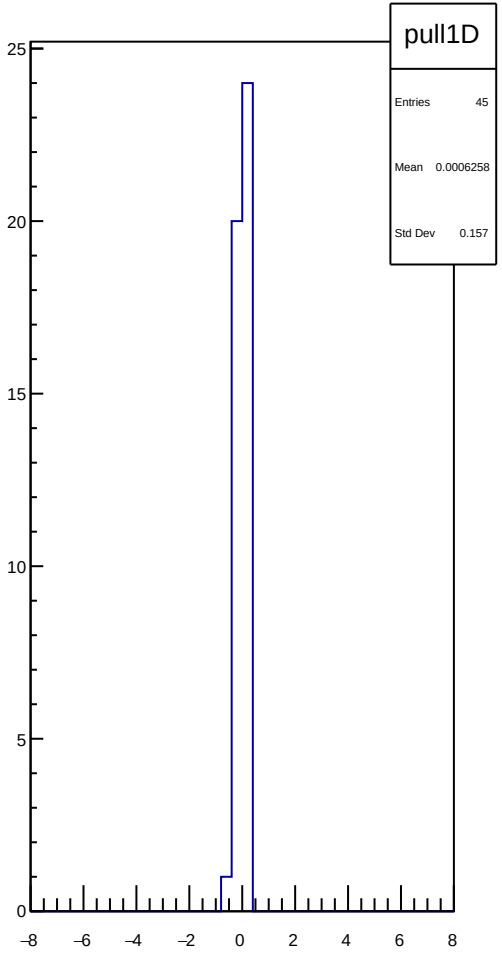

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.655 / 44
p0 0.2532 ± 1.337
pull
Entries 45
Mean 1580
Std Dev 1561

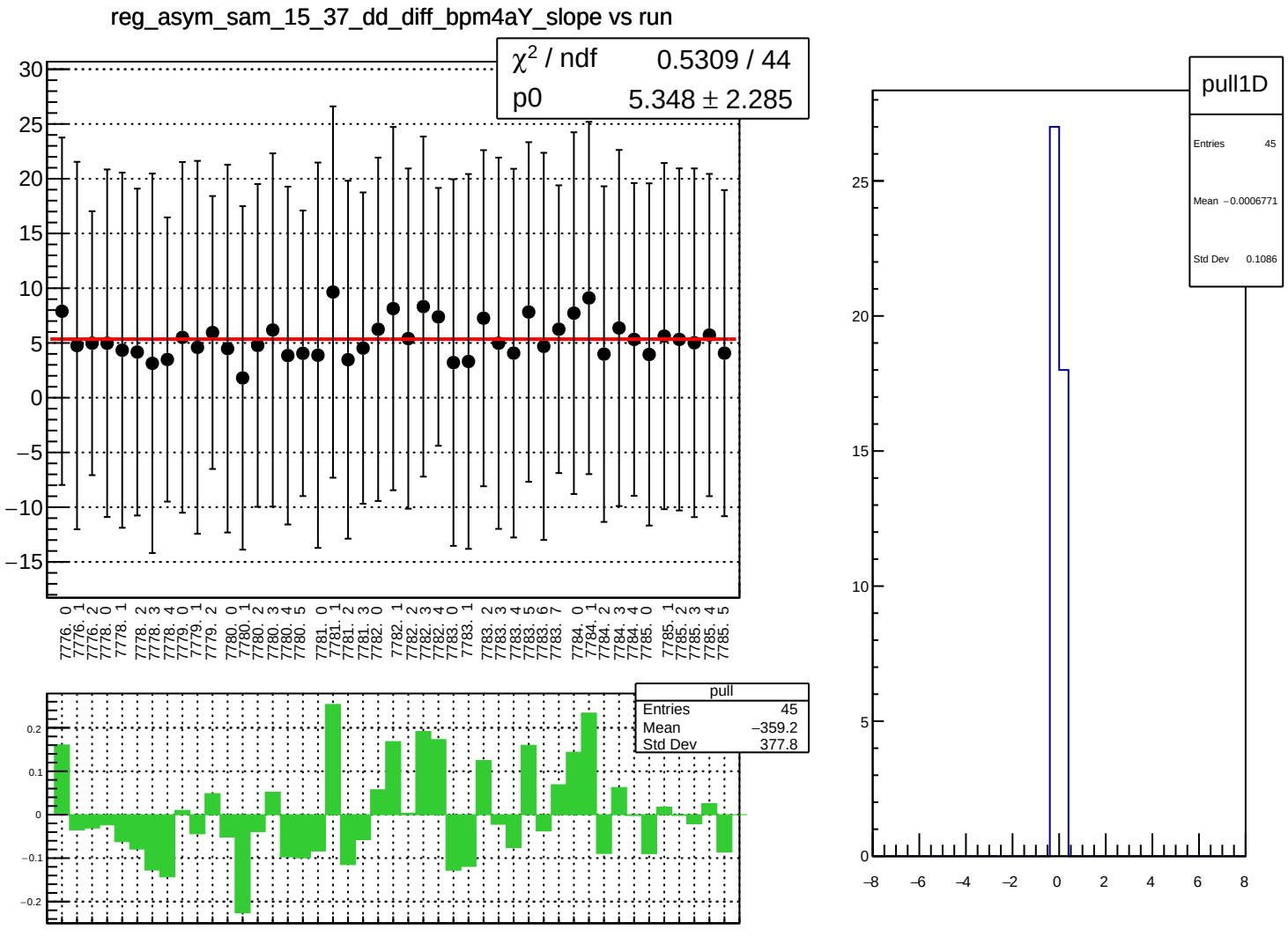

pull1D
Entries 45
Mean 0.0002172
Std Dev 0.1918

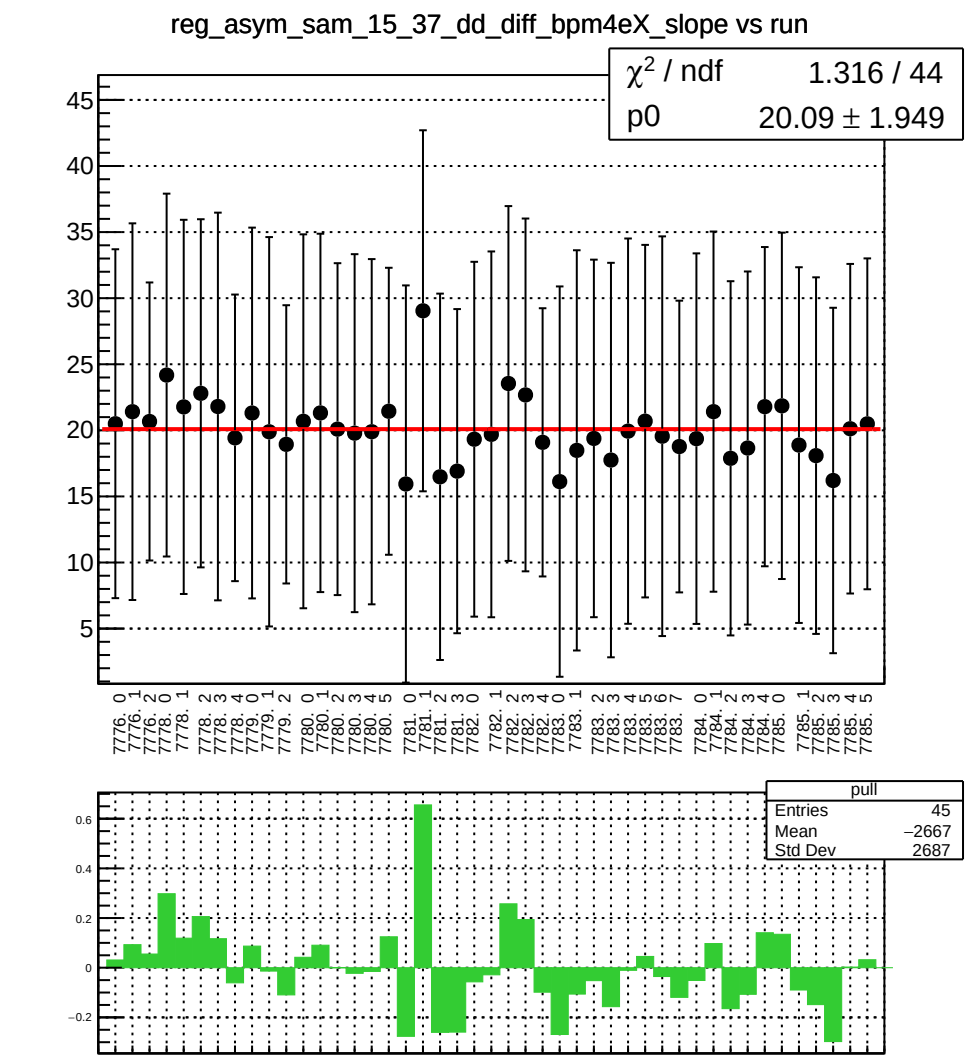

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.069 / 44
p0 7.572 ± 1.77
pull
Entries 45
Mean 464.5
Std Dev 438.2
pull1D
Entries 45
Mean −0.001714
Std Dev 0.1541

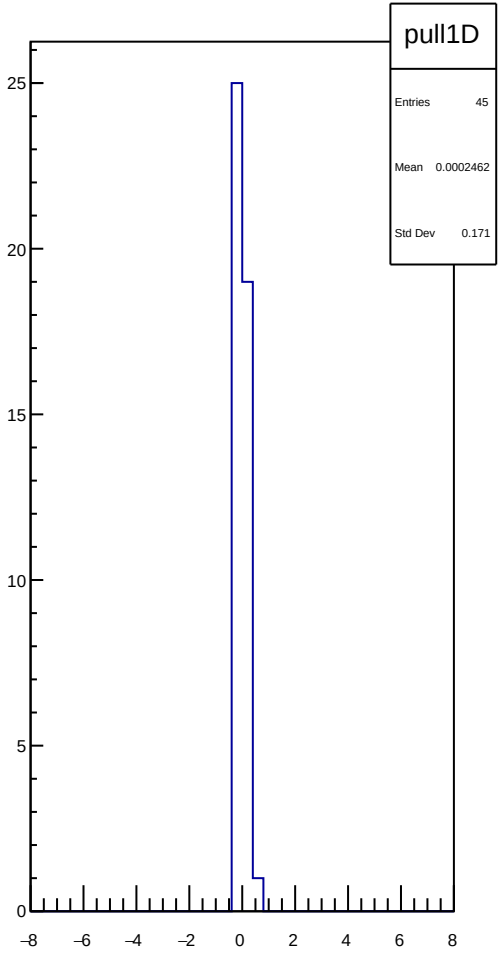

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 1.454 / 44
p0 −0.05297 ± 0.05581
pull
Entries 45
Mean −10.27
Std Dev 8.517
pull1D
Entries 45
Mean −0.004336
Std Dev 0.1797

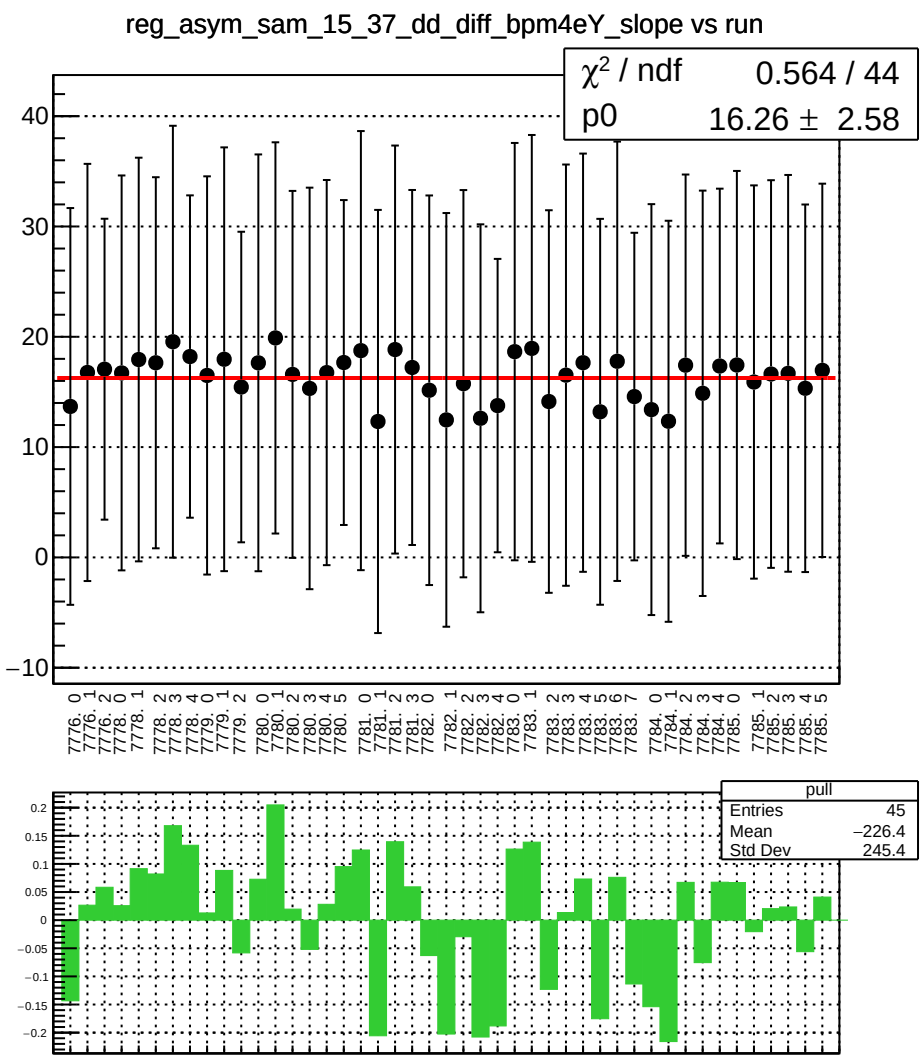

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 1.11 / 44
p0 25.3 ± 2.239
pull
Entries 45
Mean 557.6
Std Dev 538.4

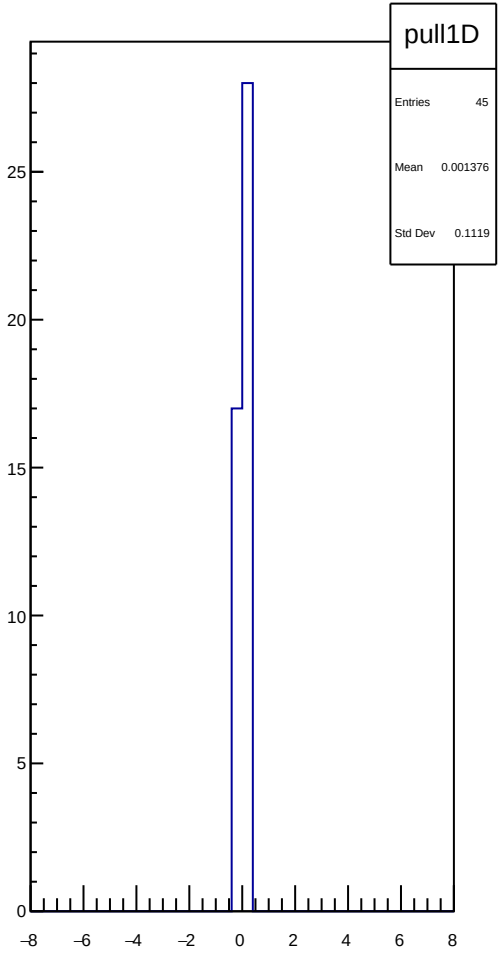

pull1D
Entries 45
Mean 0.0006258
Std Dev 0.157

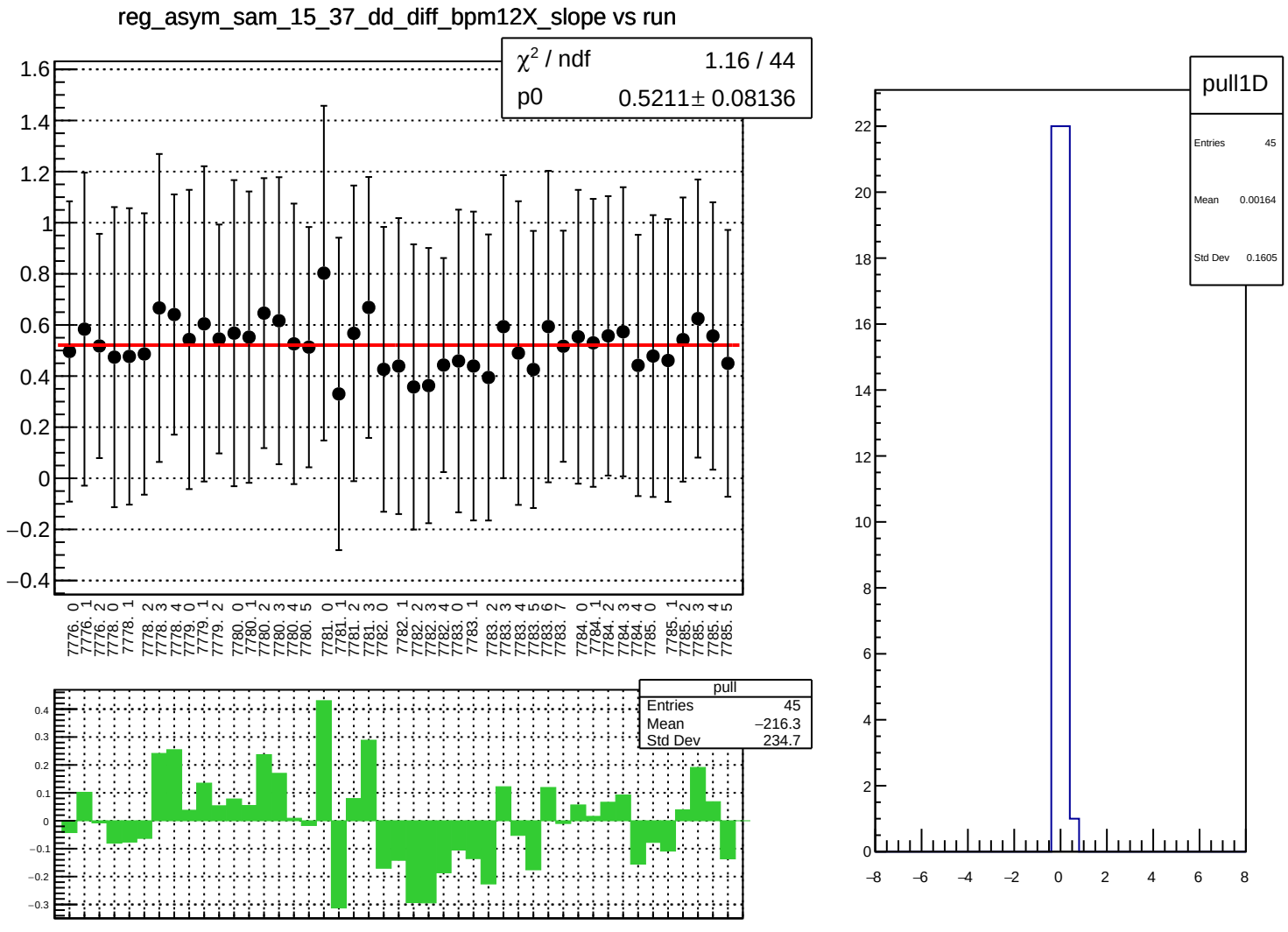

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.5309 / 44
p0 5.348 ± 2.285
pull
Entries 45
Mean −359.2
Std Dev 377.8
pull1D
Entries 45
Mean −0.0006771
Std Dev 0.1086

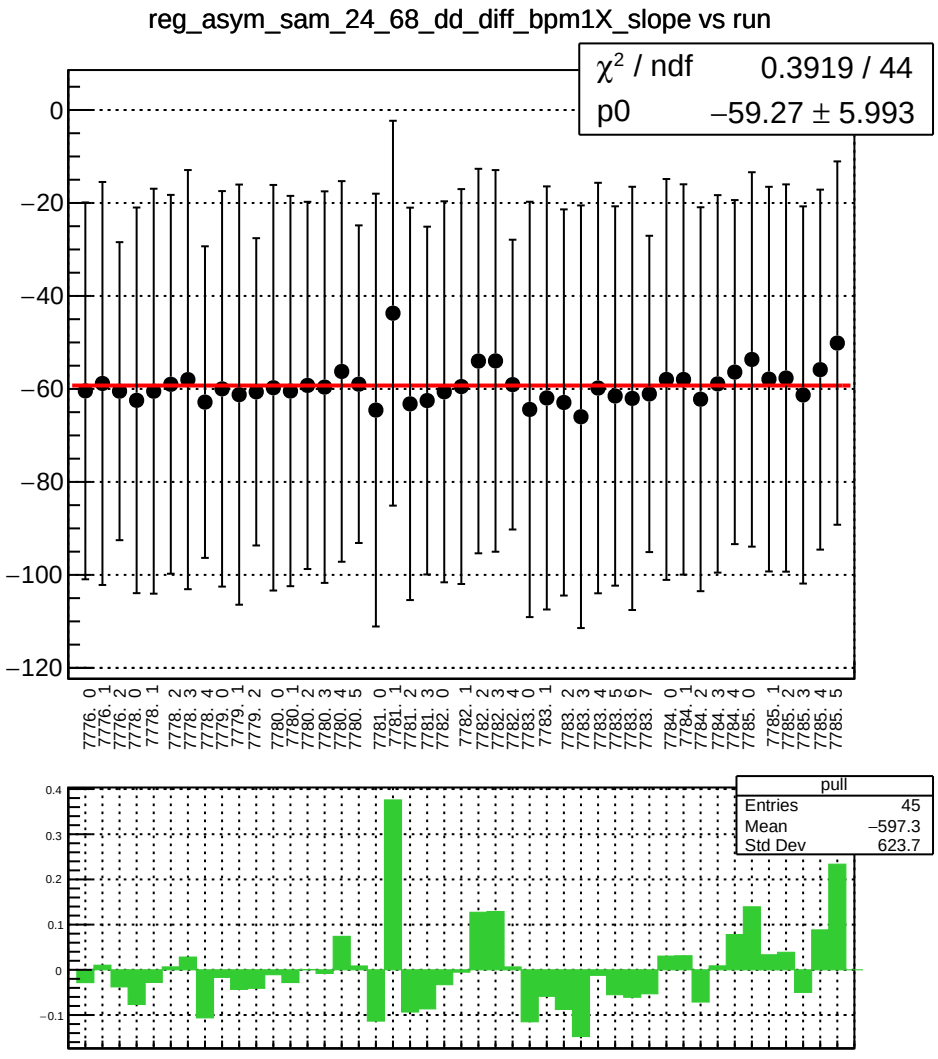

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.316 / 44
p0 20.09 ± 1.949
pull
Entries 45
Mean −2667
Std Dev 2687

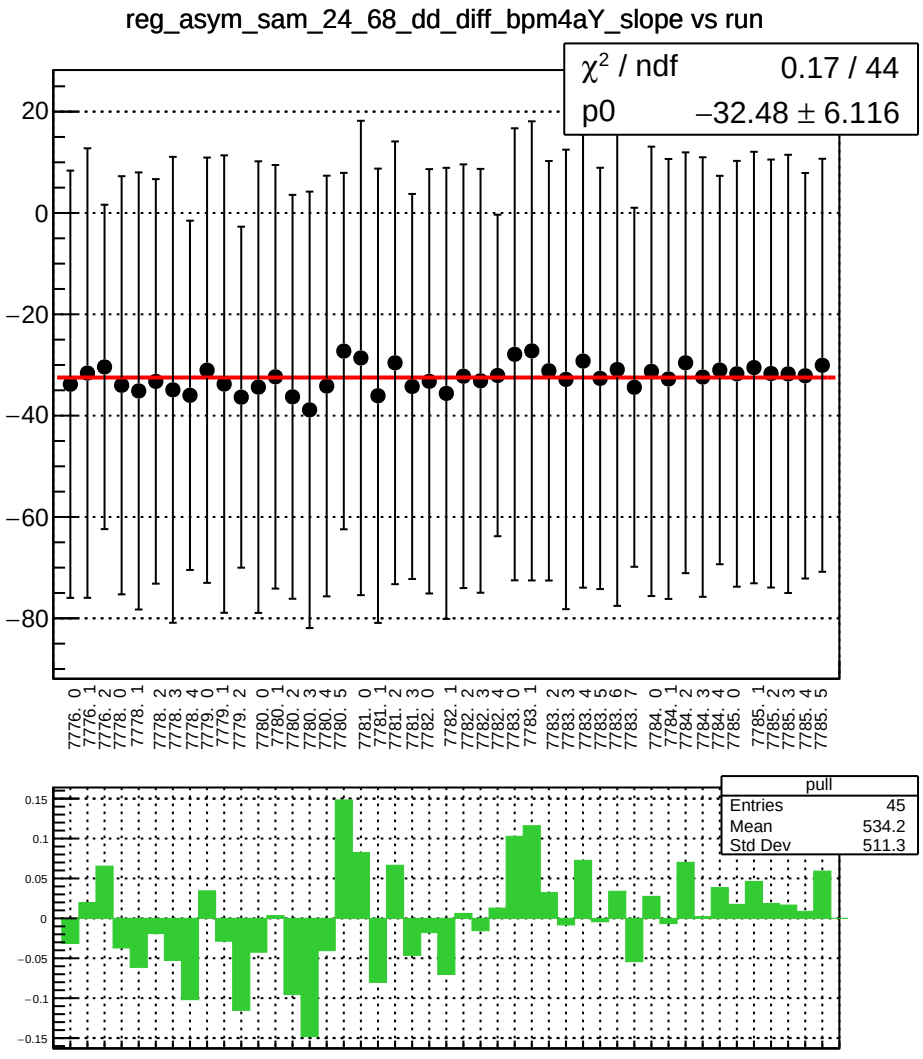

pull1D
Entries 45
Mean 0.0002462
Std Dev 0.171

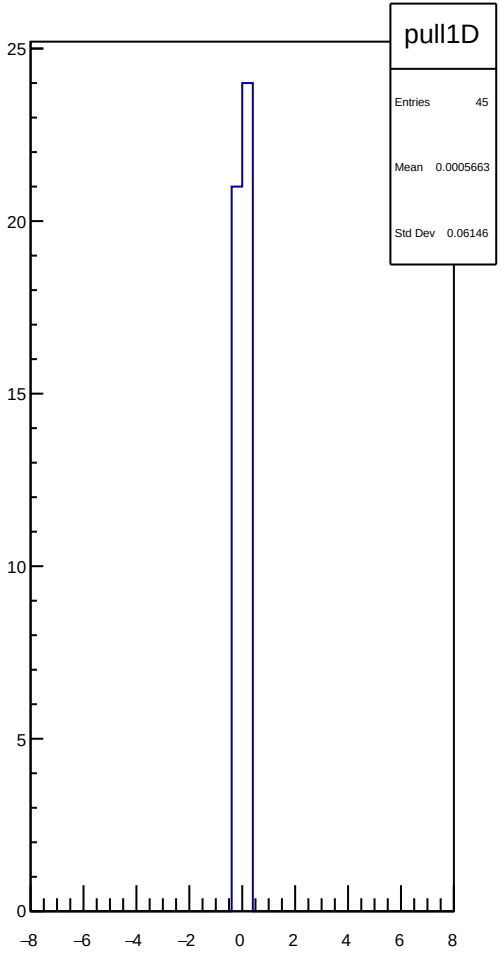

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.564 / 44
p0 16.26 ± 2.58
pull
Entries 45
Mean −226.4
Std Dev 245.4

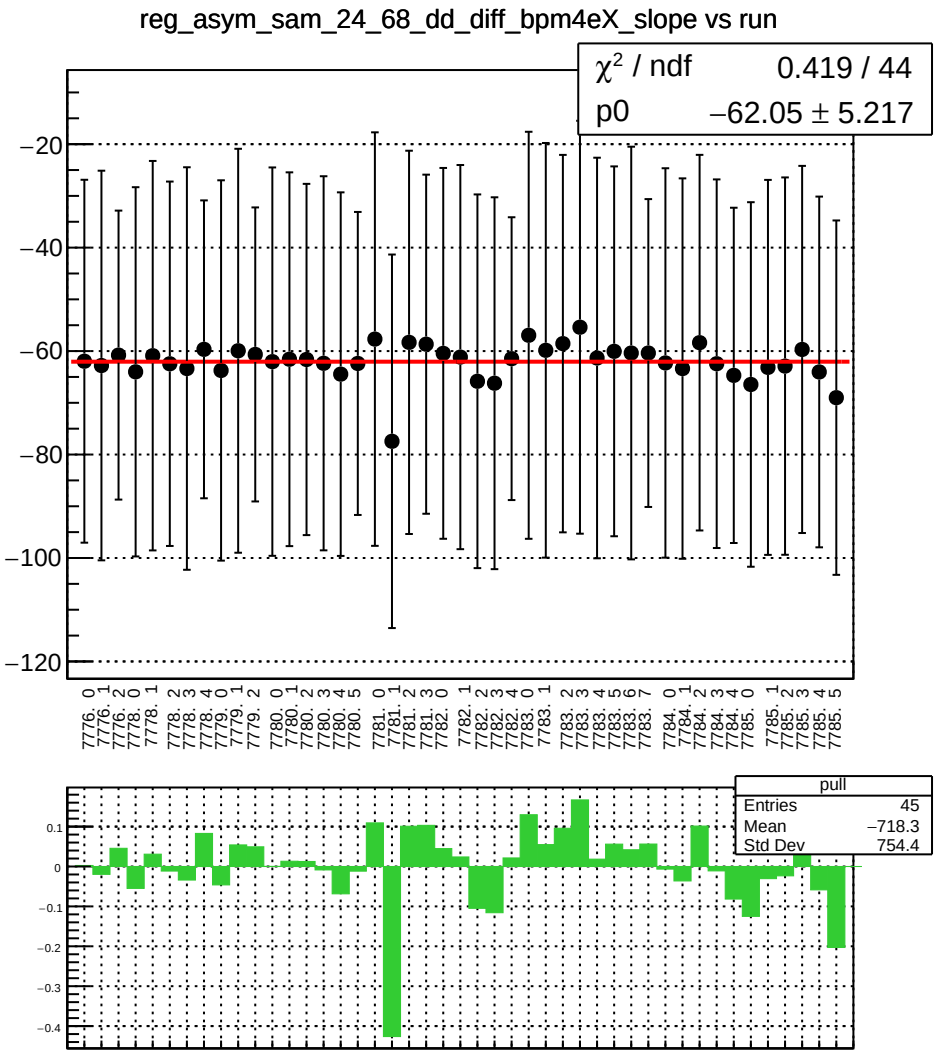

pull1D
Entries 45
Mean 0.001376
Std Dev 0.1119

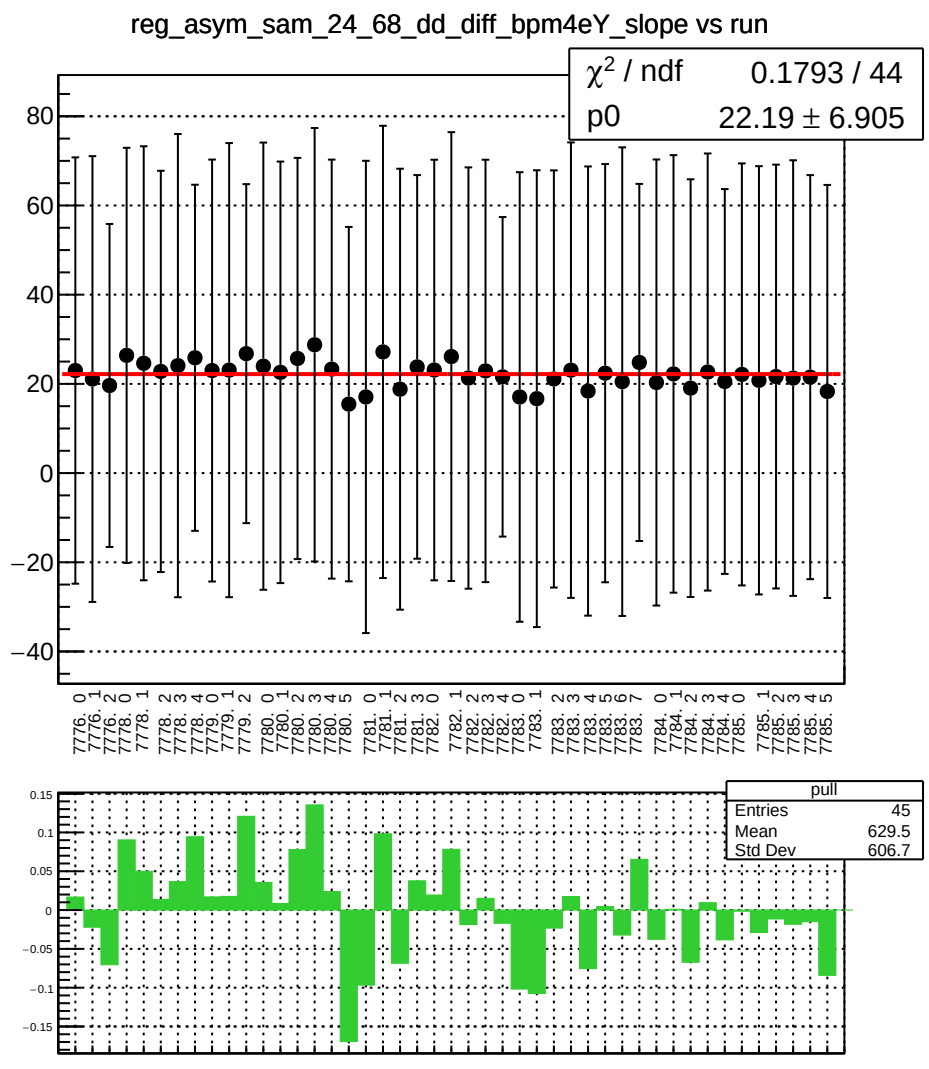

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 1.16 / 44
p0 0.5211± 0.08136
pull
Entries 45
Mean −216.3
Std Dev 234.7
pull1D
Entries 45
Mean 0.00164
Std Dev 0.1605

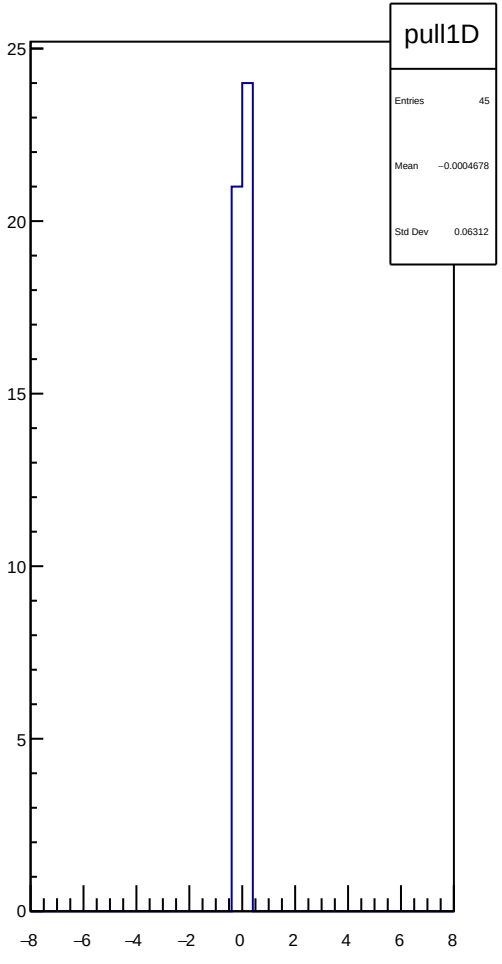

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 0.3919 / 44
p0 −59.27 ± 5.993
0
−20
−40
−60
−80
−100
−120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −597.3
Std Dev 623.7
0.4
0.3
0.2
0.1
0
−0.1
pull1D
Entries 45
Mean −0.000432
Std Dev 0.09332
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

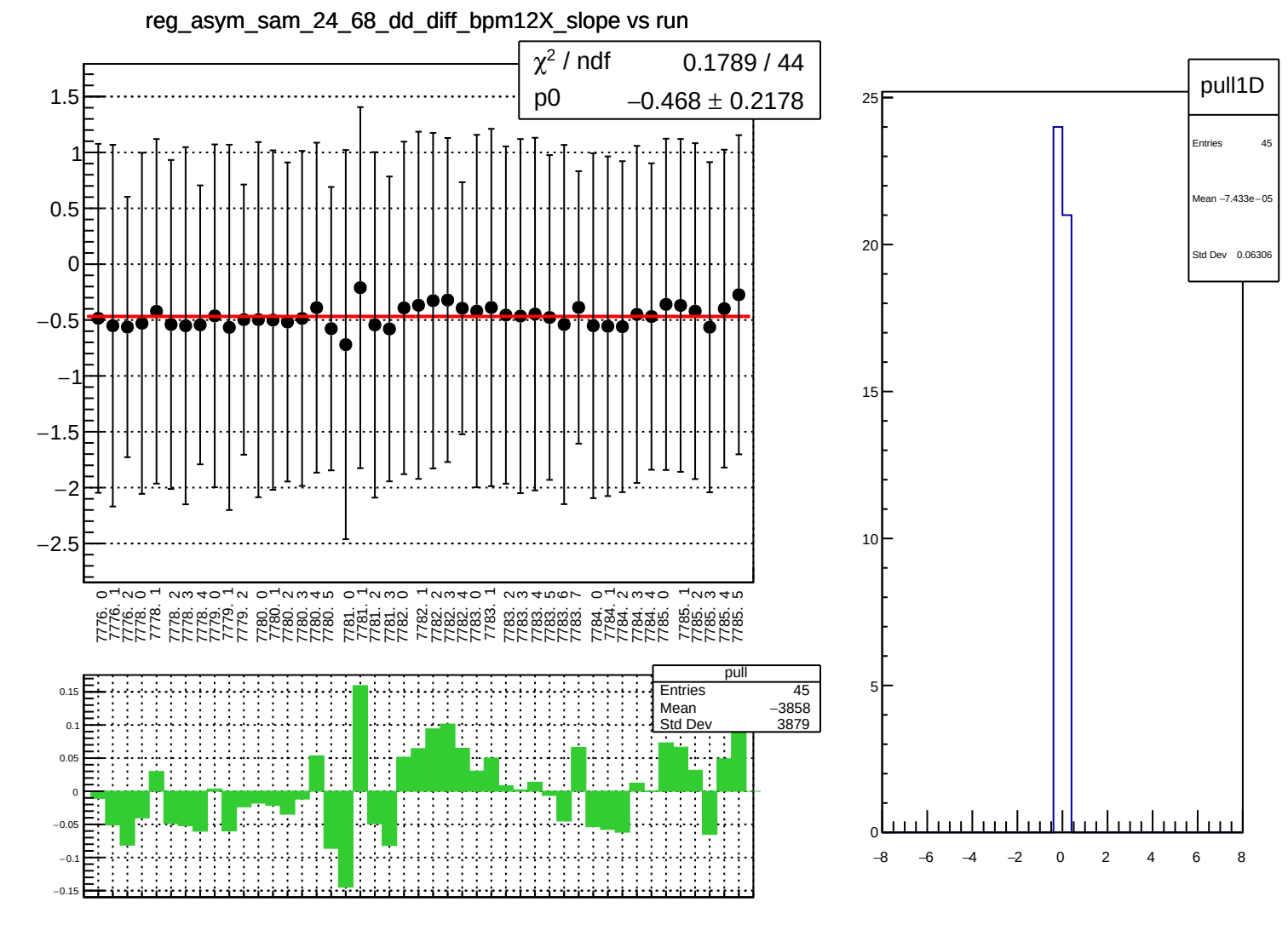

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.17 / 44
p0 −32.48 ± 6.116
pull
Entries 45
Mean 534.2
Std Dev 511.3

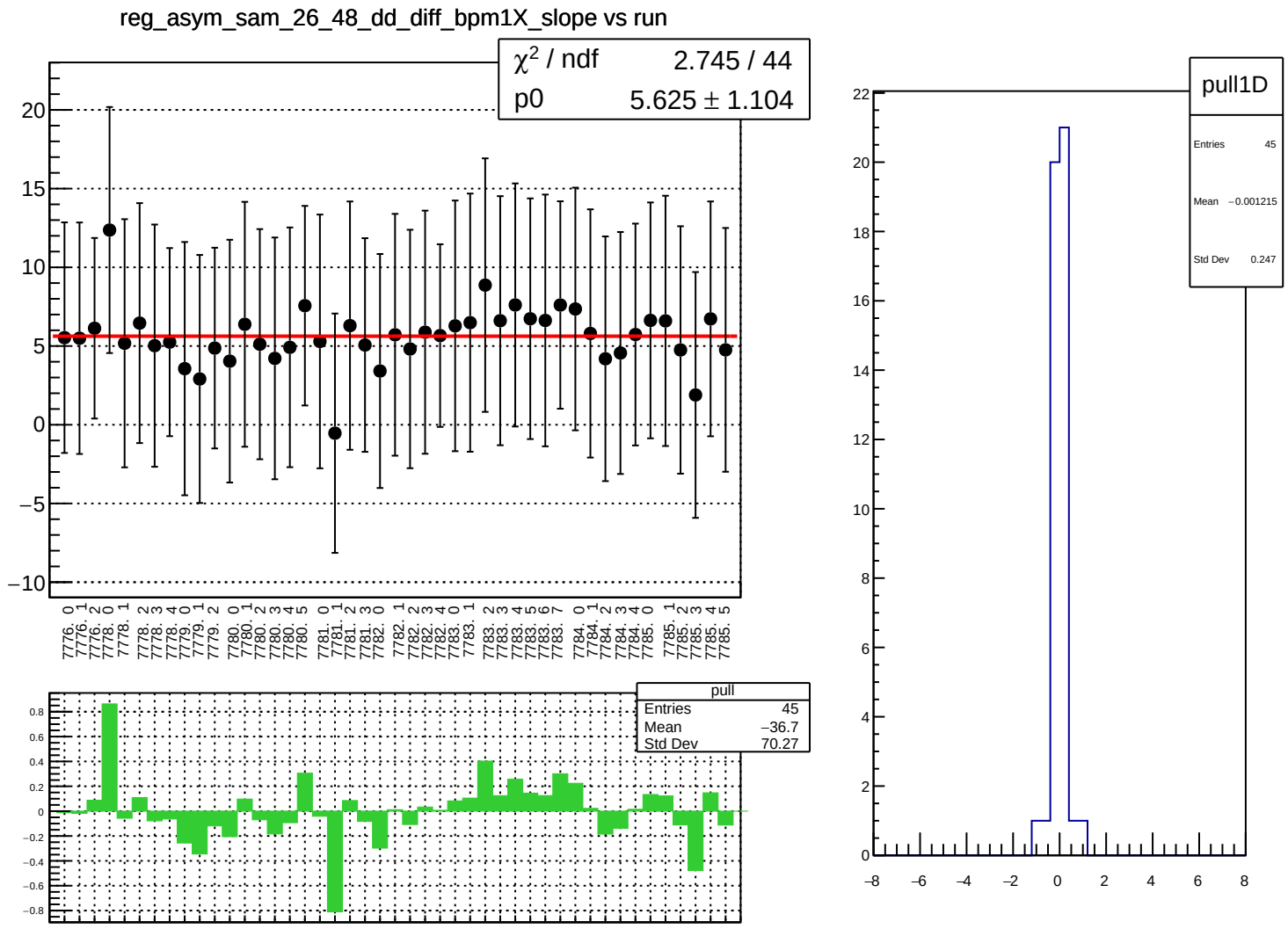

pull1D
Entries 45
Mean 0.0005663
Std Dev 0.06146

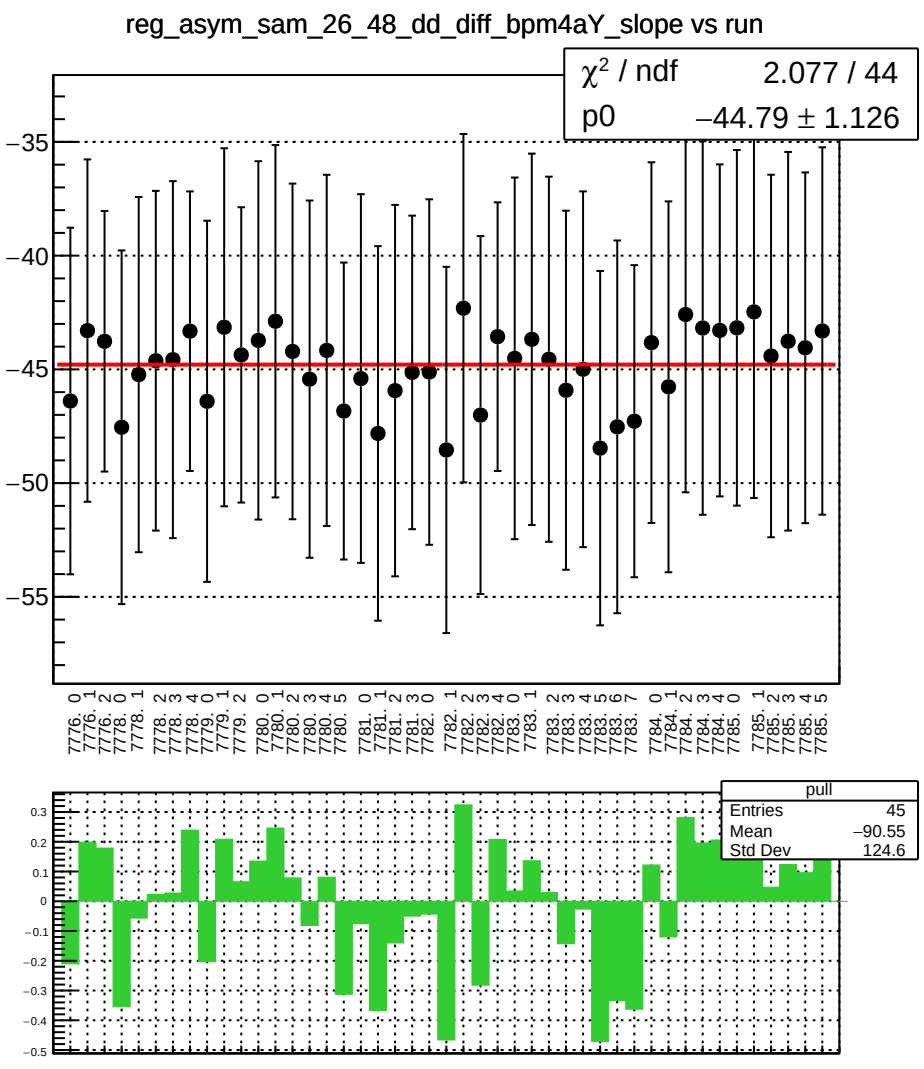

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.419 / 44
p0 −62.05 ± 5.217
−20
−40
−60
−80
−100
−120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −718.3
Std Dev 754.4
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 45
Mean 0.0001312
Std Dev 0.0965
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

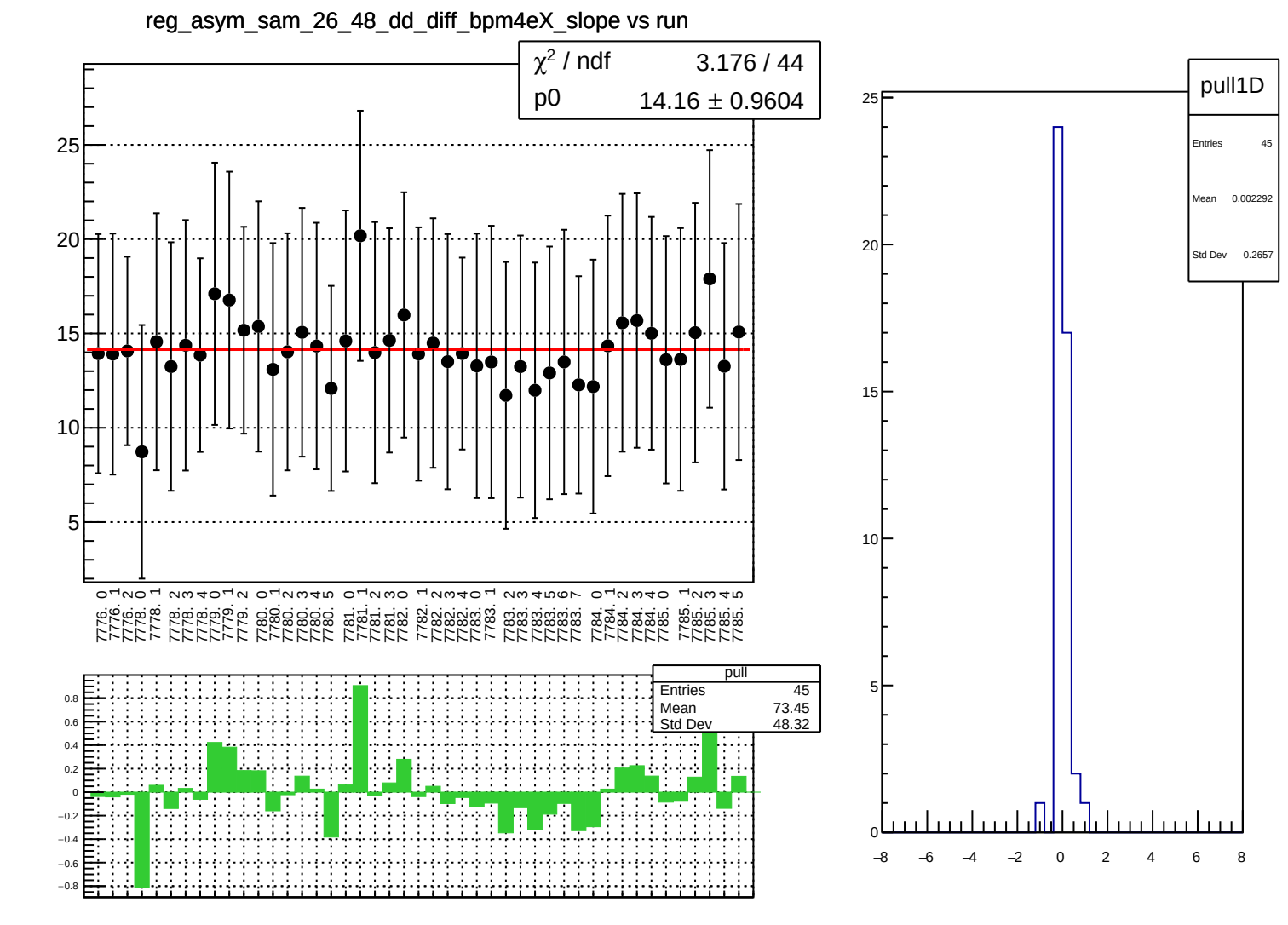

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.1793 / 44
p0 22.19 ± 6.905
pull
Entries 45
Mean 629.5
Std Dev 606.7

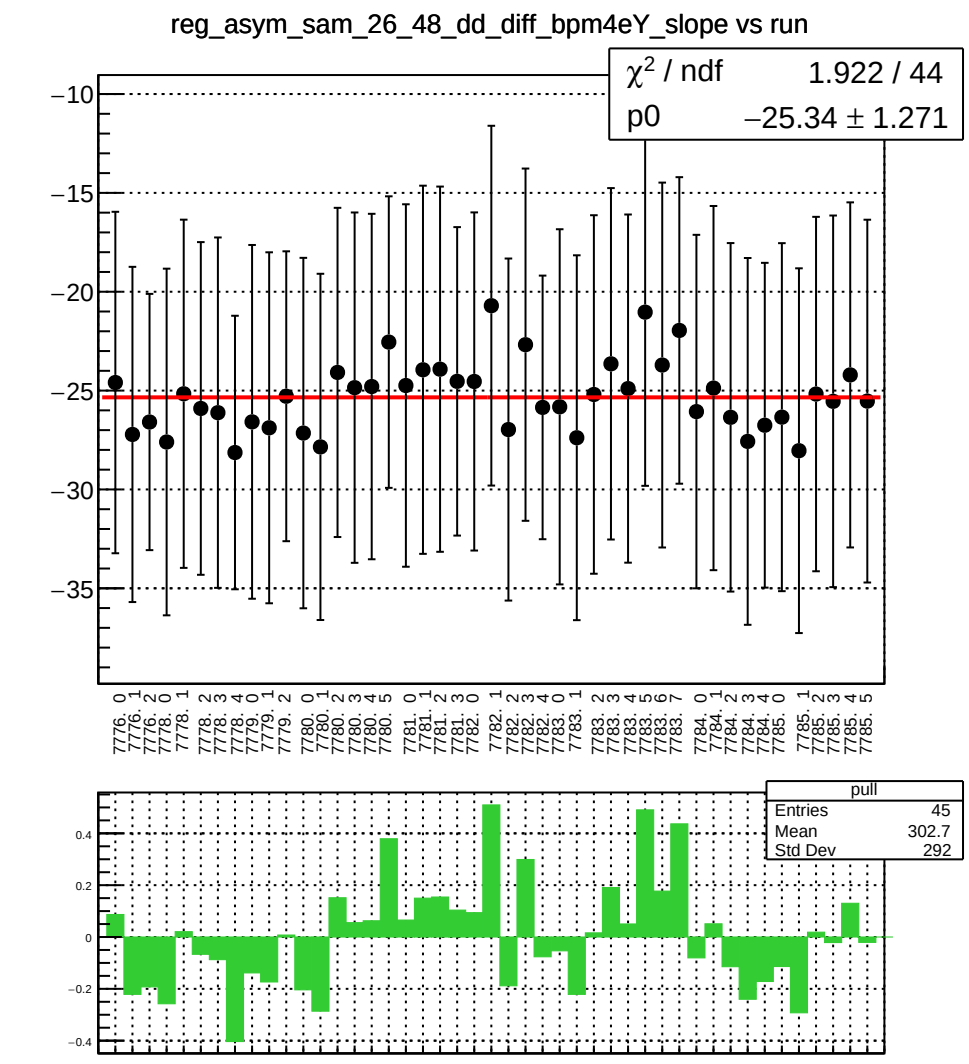

pull1D
Entries 45
Mean −0.0004678
Std Dev 0.06312

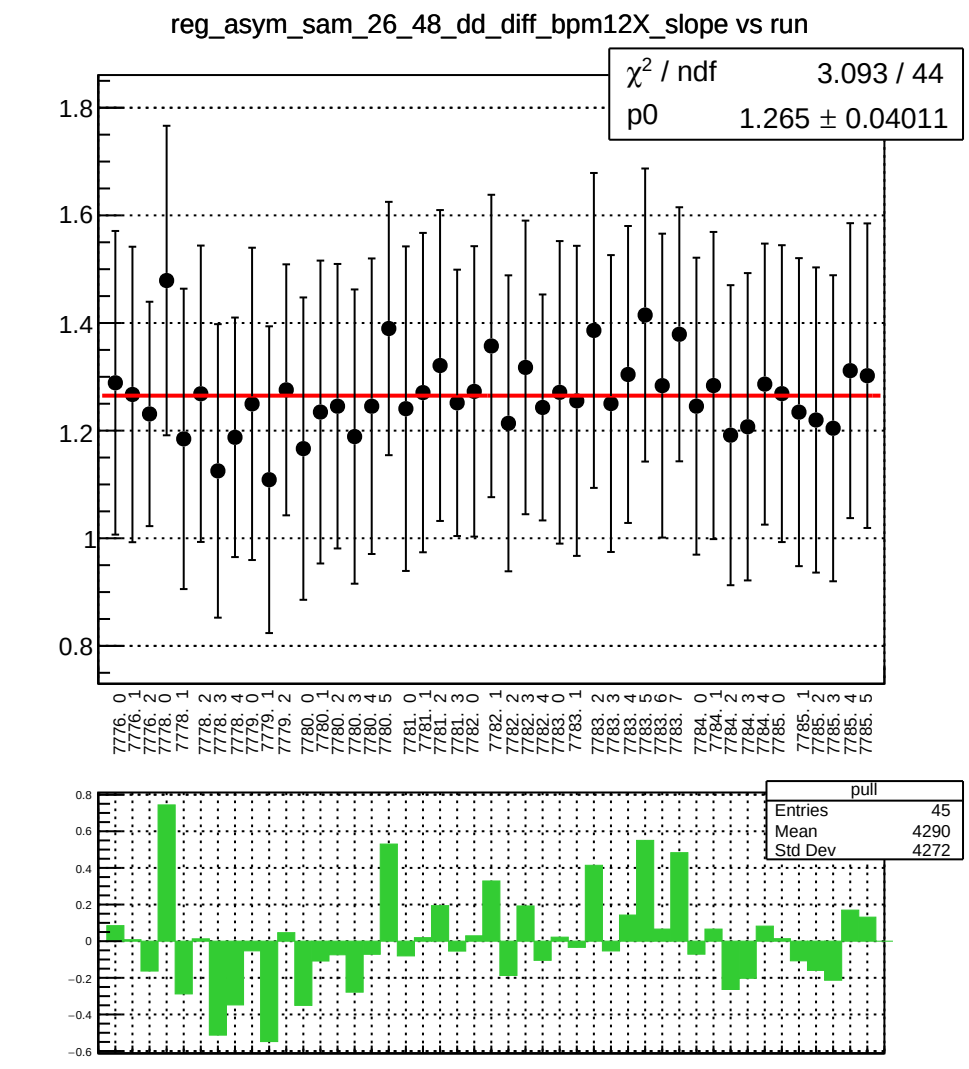

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.1789 / 44
p0 −0.468 ± 0.2178
pull
Entries 45
Mean −3858
Std Dev 3879
pull1D
Entries 45
Mean −7.433e−05
Std Dev 0.06306

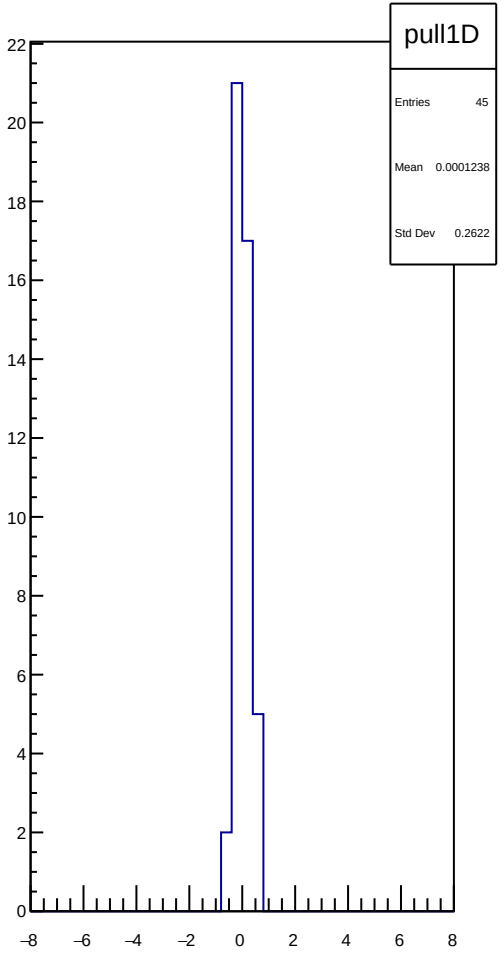

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.745 / 44
p0 5.625 ± 1.104
pull
Entries 45
Mean −36.7
Std Dev 70.27
pull1D
Entries 45
Mean −0.001215
Std Dev 0.247

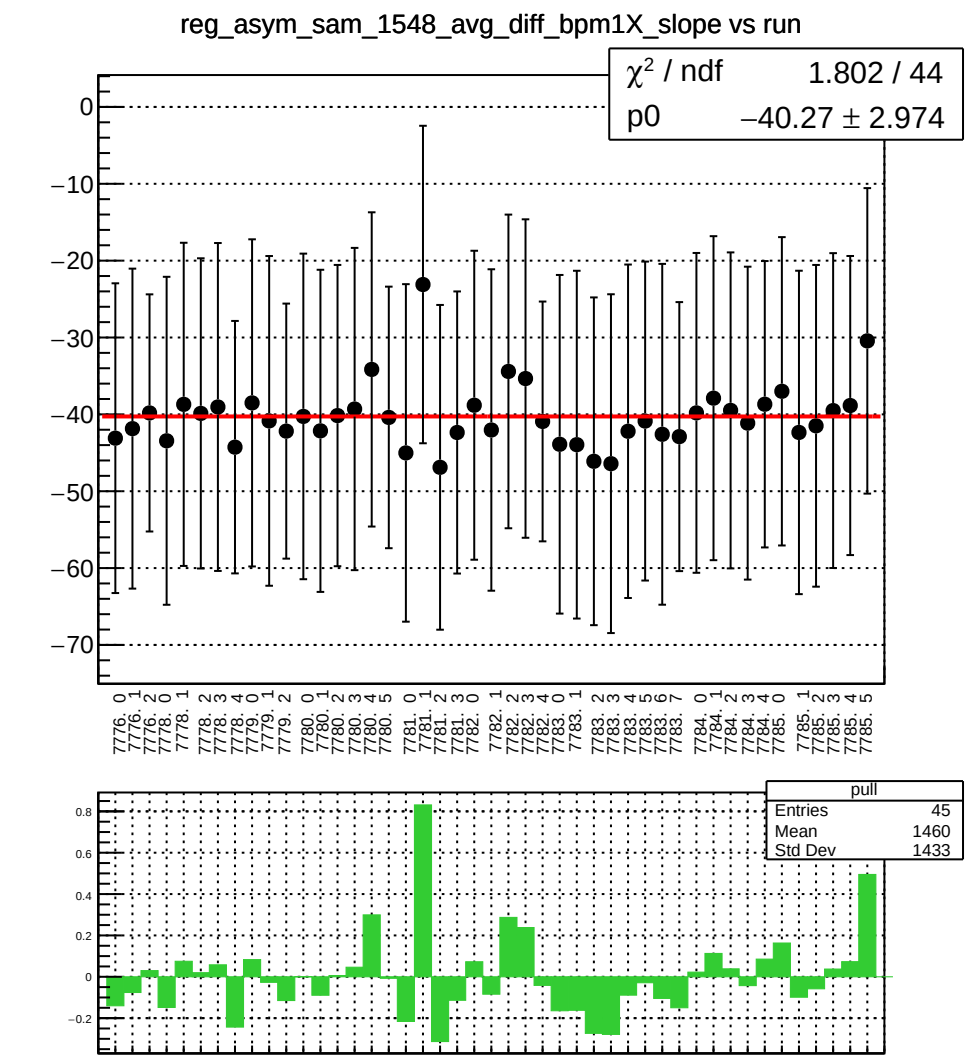

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.077 / 44
p0 −44.79 ± 1.126
−35
−40
−45
−50
−55
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −90.55
Std Dev 124.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 45
Mean −0.003139
Std Dev 0.2148
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

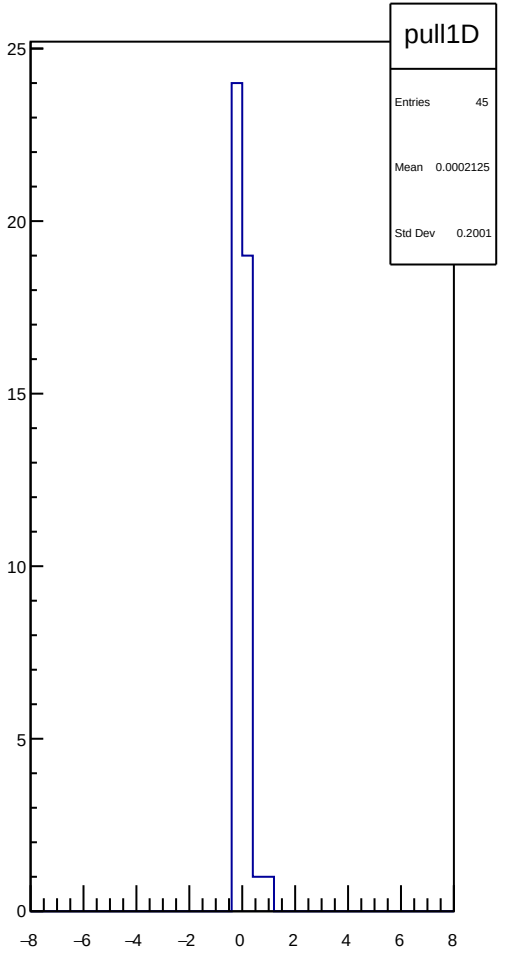

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.176 / 44
p0 14.16 ± 0.9604
pull
Entries 45
Mean 73.45
Std Dev 48.32
pull1D
Entries 45
Mean 0.002292
Std Dev 0.2657

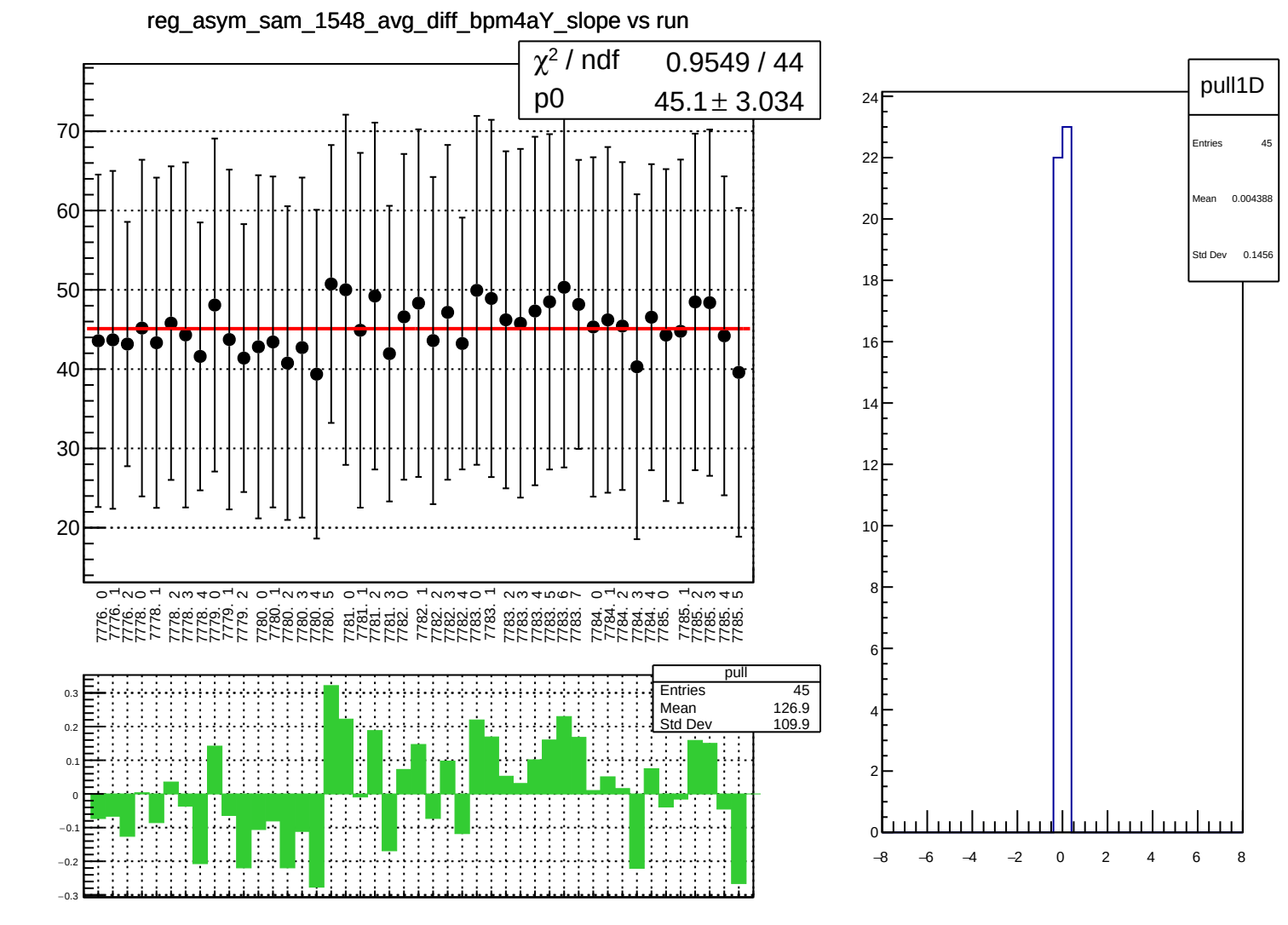

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.922 / 44
p0 −25.34 ± 1.271
pull
Entries 45
Mean 302.7
Std Dev 292
pull1D
Entries 45
Mean 0.001675
Std Dev 0.2067

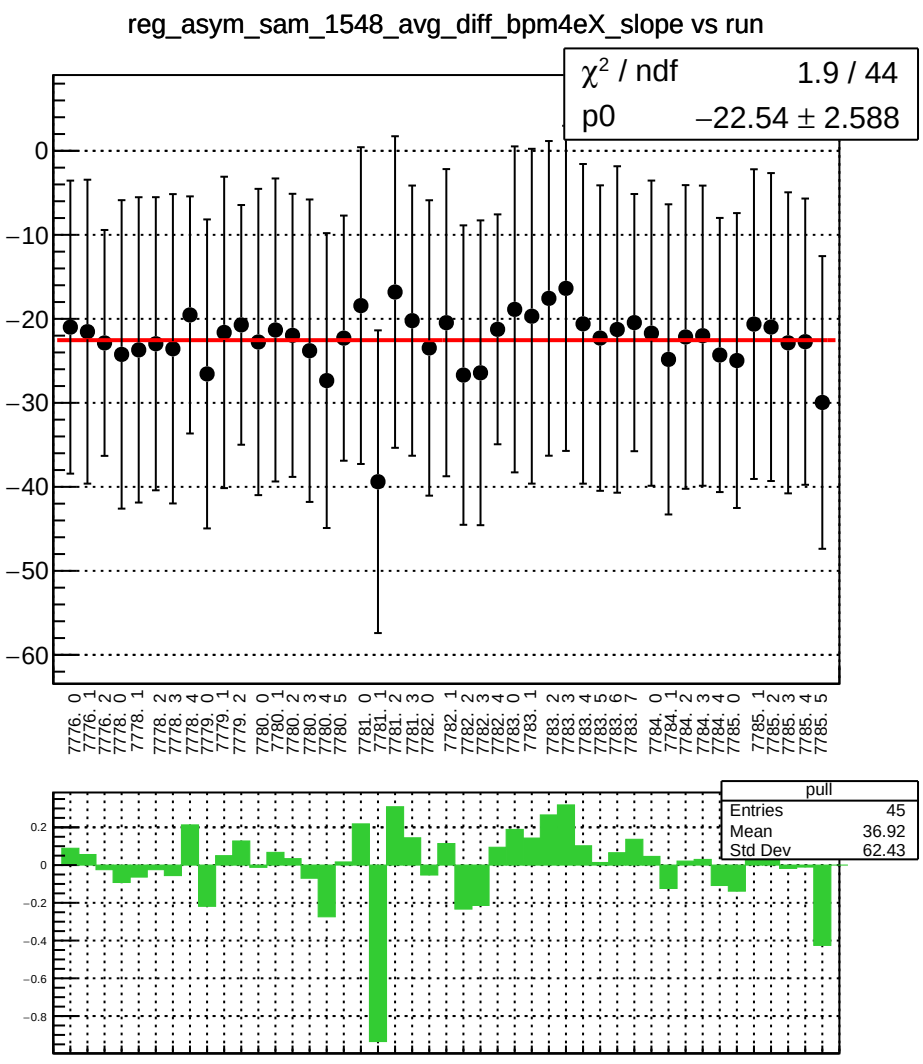

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.093 / 44
p0 1.265 ± 0.04011
pull
Entries 45
Mean 4290
Std Dev 4272

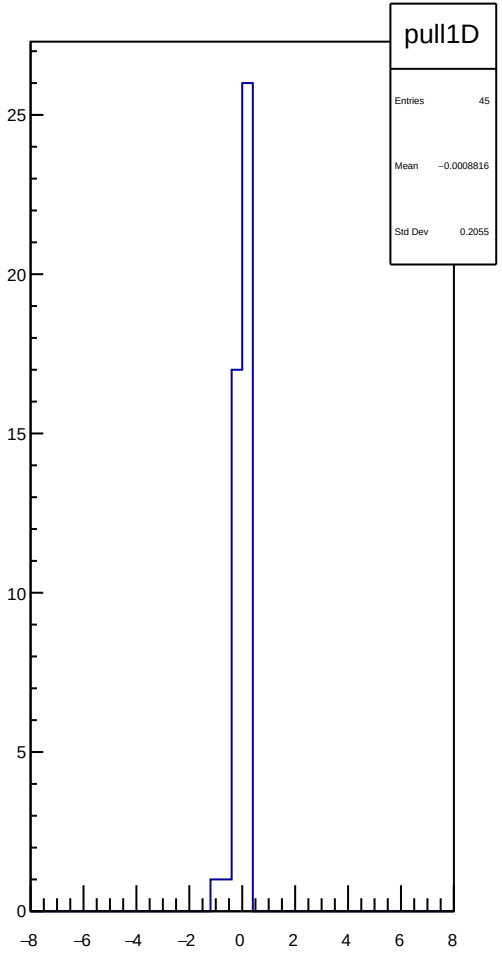

pull1D
Entries 45
Mean 0.0001238
Std Dev 0.2622

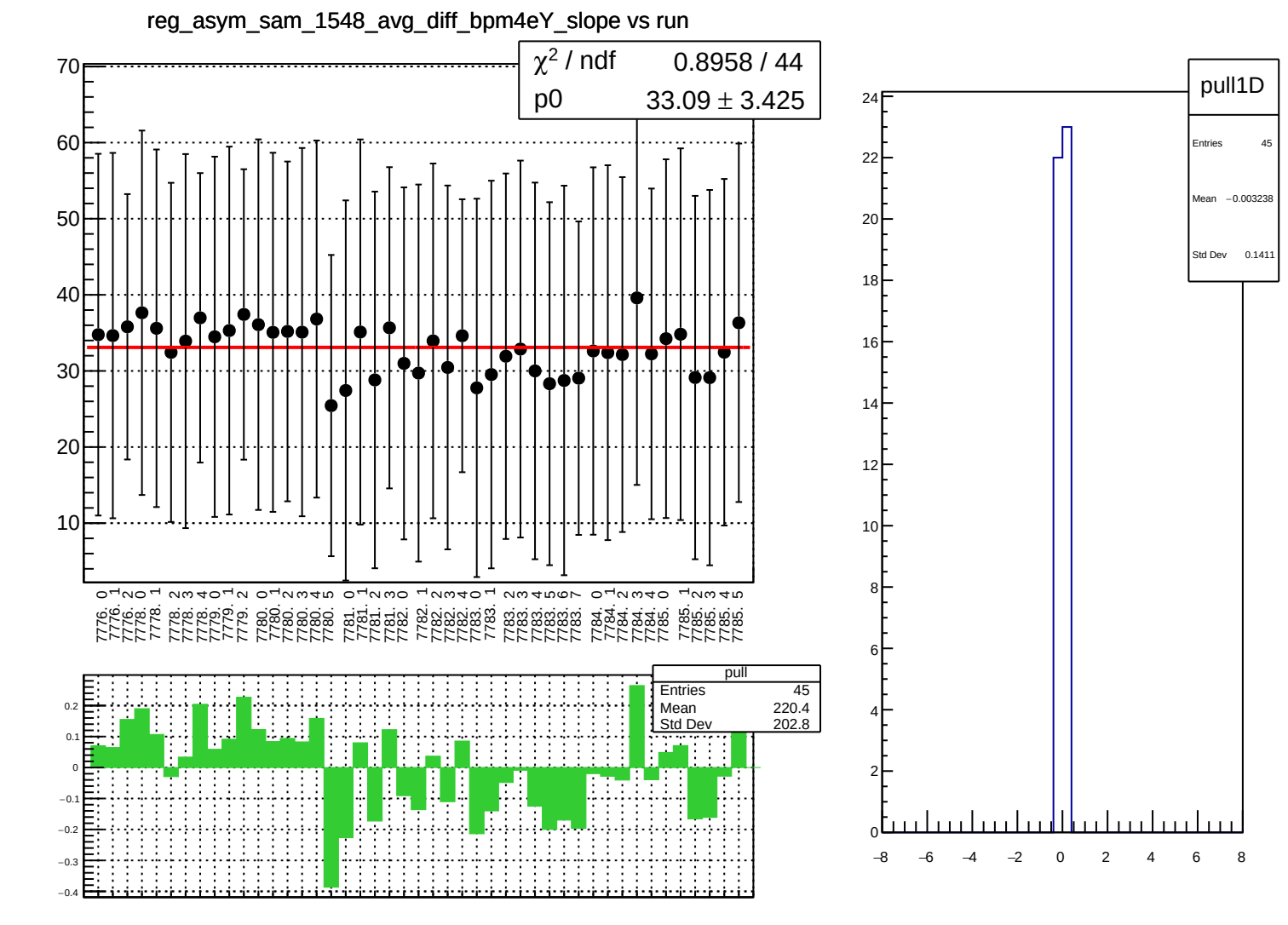

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1.802 / 44
p0 −40.27 ± 2.974
pull
Entries 45
Mean 1460
Std Dev 1433

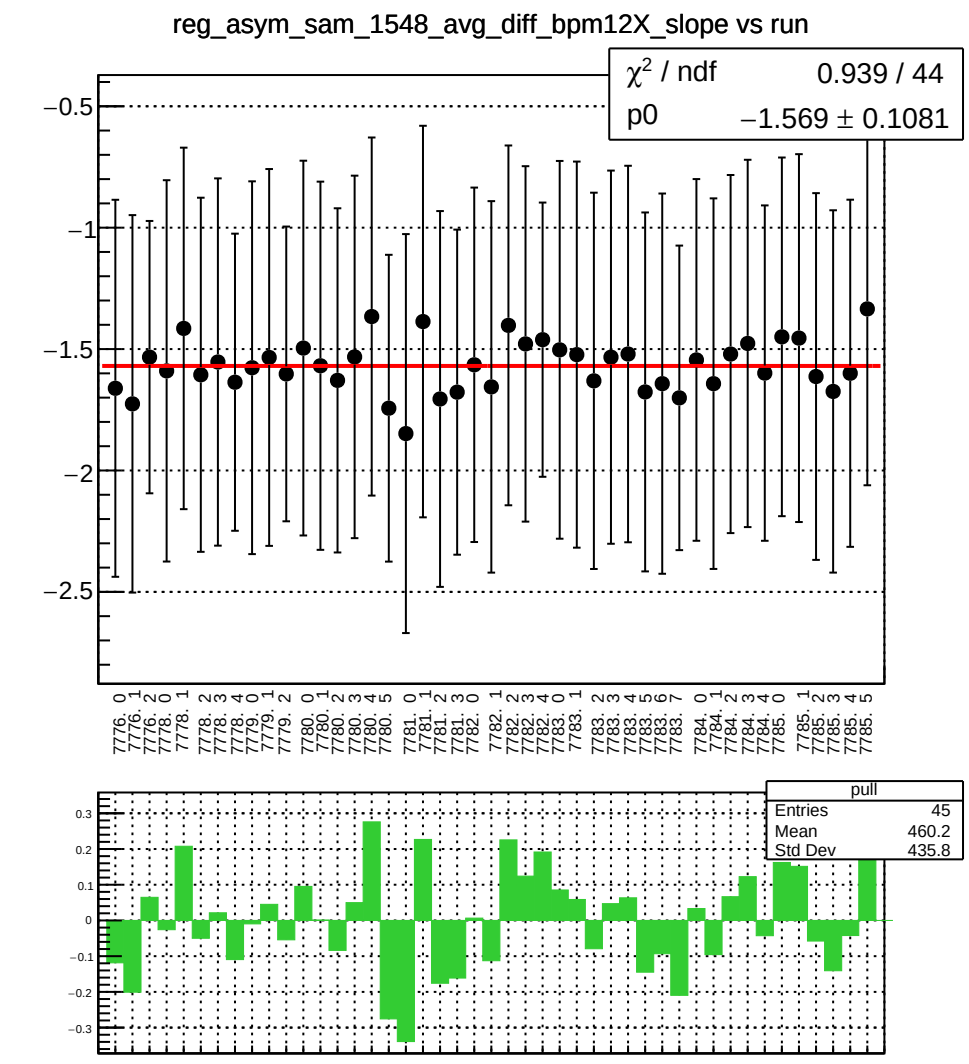

pull1D
Entries 45
Mean 0.0002125
Std Dev 0.2001

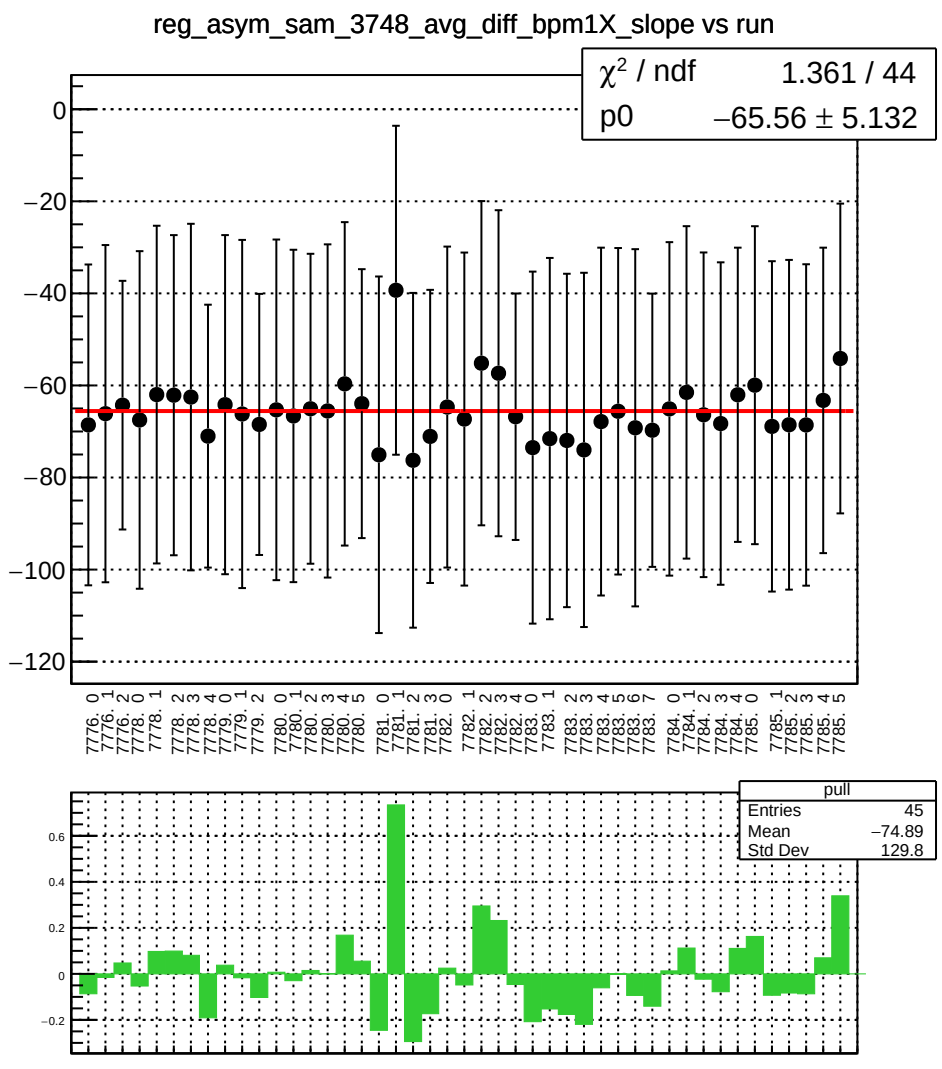

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9549 / 44
p0 45.1 ± 3.034
pull
Entries 45
Mean 126.9
Std Dev 109.9
pull1D
Entries 45
Mean 0.004388
Std Dev 0.1456

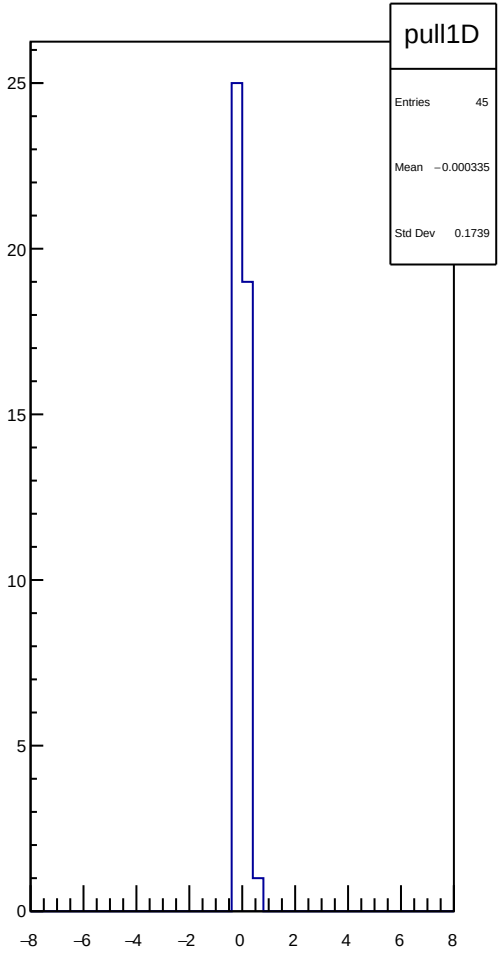

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.9 / 44
p0 −22.54 ± 2.588
pull
Entries 45
Mean 36.92
Std Dev 62.43

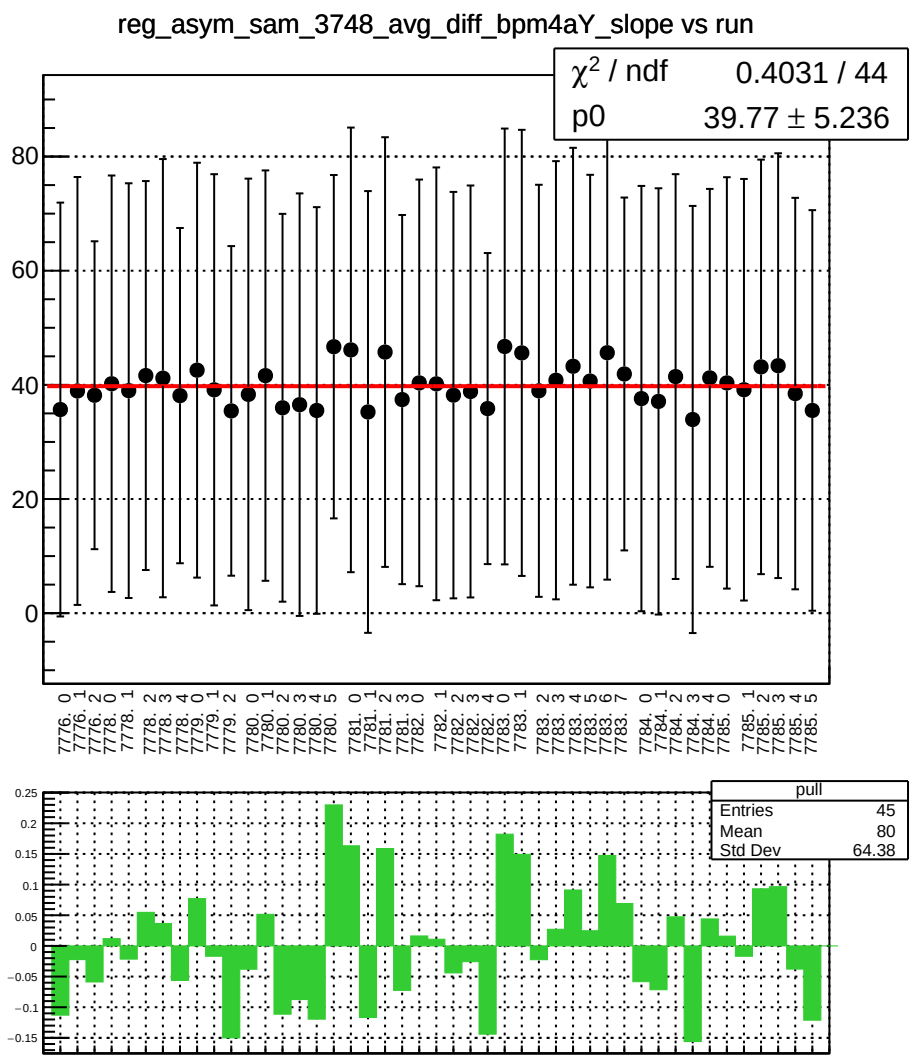

pull1D
Entries 45
Mean −0.0008816
Std Dev 0.2055

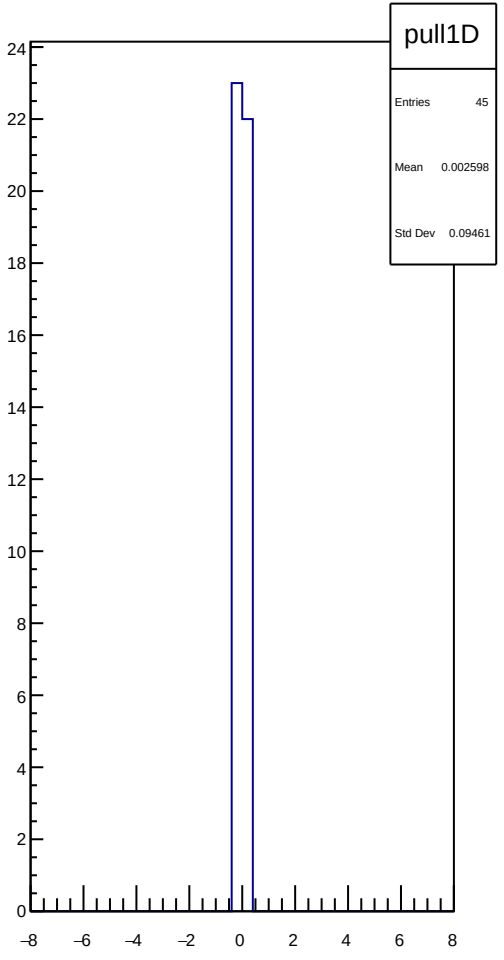

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8958 / 44
p0 33.09 ± 3.425
pull
Entries 45
Mean 220.4
Std Dev 202.8
pull1D
Entries 45
Mean −0.003238
Std Dev 0.1411

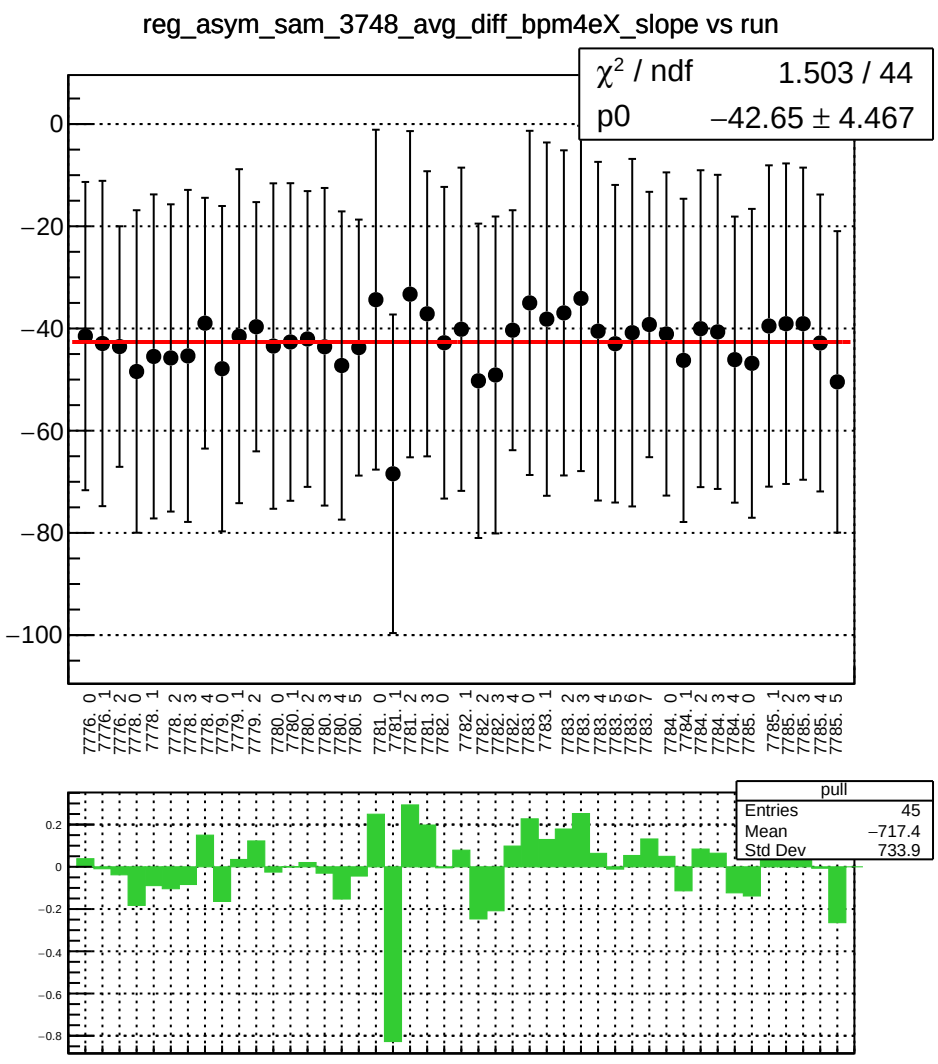

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 0.939 / 44
p0 −1.569 ± 0.1081
−0.5
−1
−1.5
−2
−2.5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 460.2
Std Dev 435.8
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean 0.0006006
Std Dev 0.1444
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

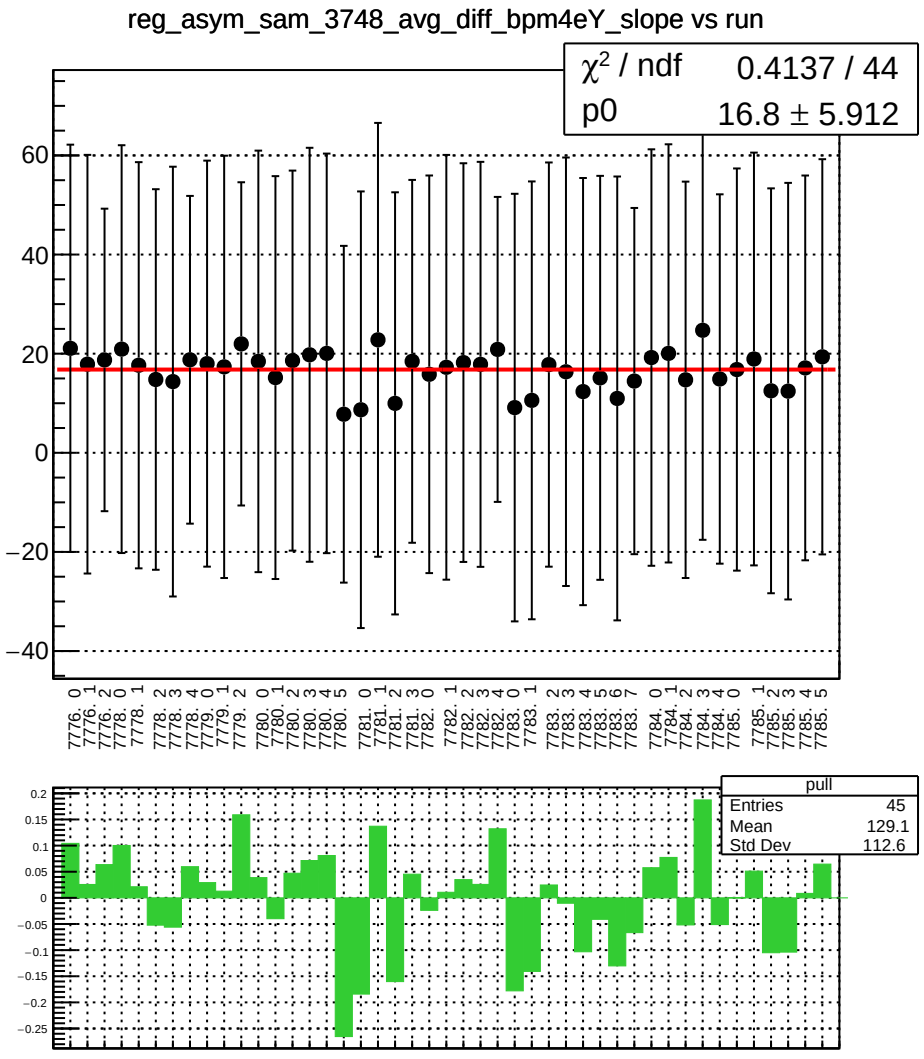

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1.361 / 44
p0 −65.56 ± 5.132
0
−20
−40
−60
−80
−100
−120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −74.89
Std Dev 129.8
0.6
0.4
0.2
0
−0.2

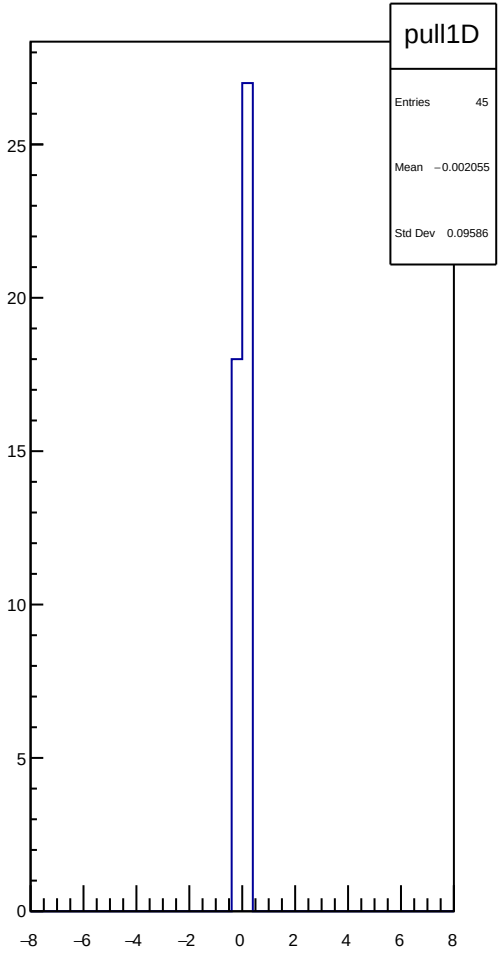

pull1D
Entries 45
Mean −0.000335
Std Dev 0.1739
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

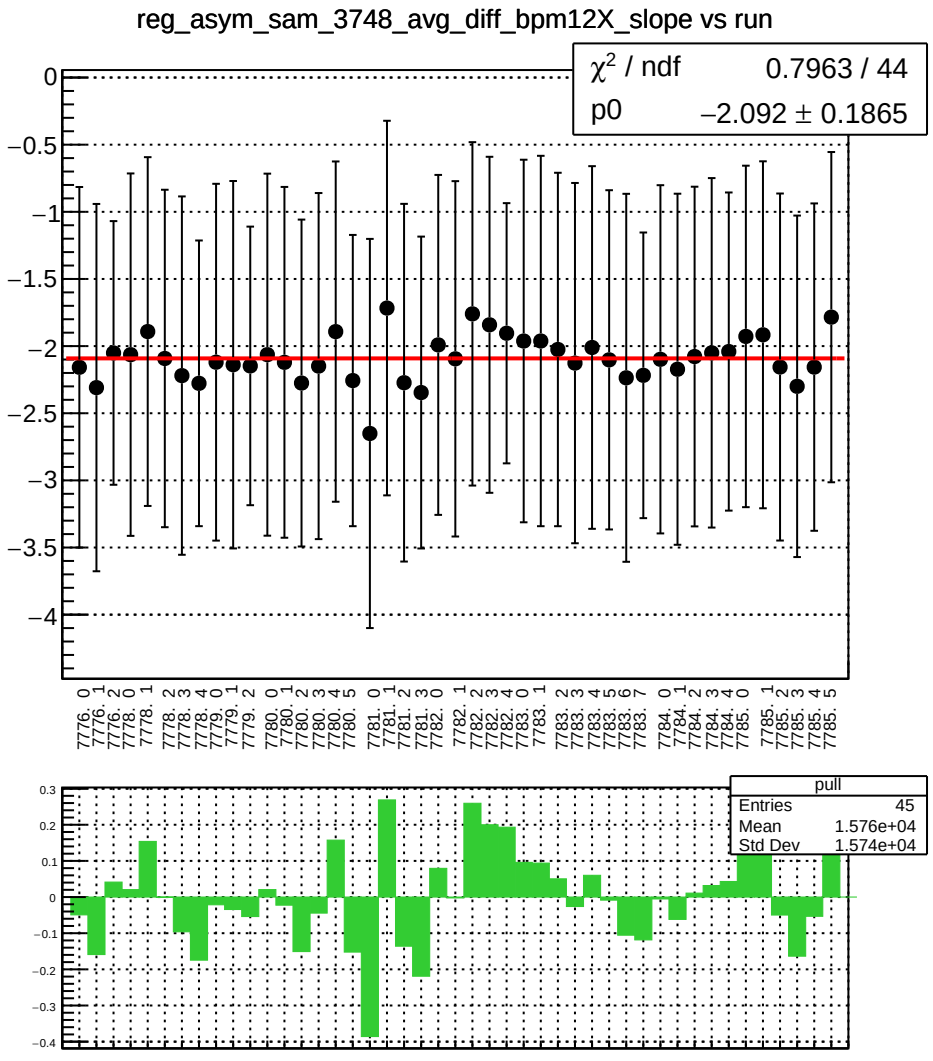

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4031 / 44
p0 39.77 ± 5.236
pull
Entries 45
Mean 80
Std Dev 64.38

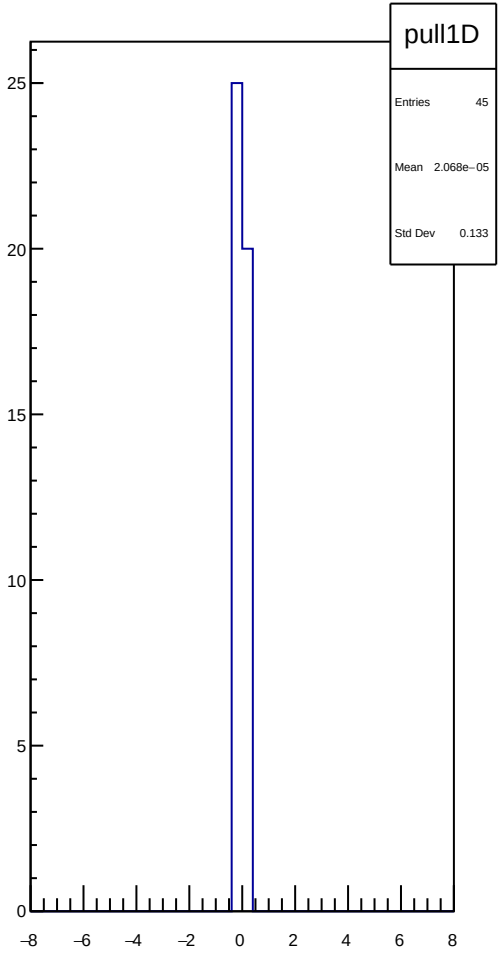

pull1D
Entries 45
Mean 0.002598
Std Dev 0.09461

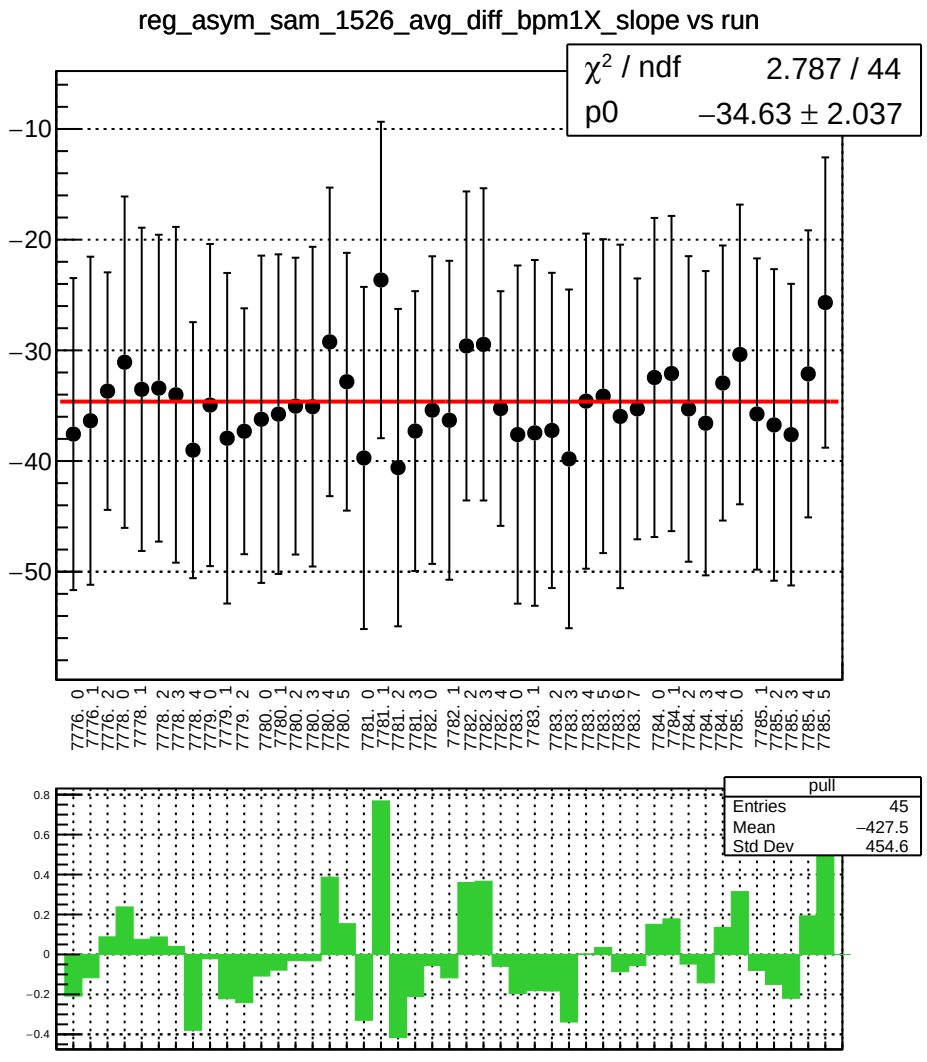

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.503 / 44
p0 −42.65 ± 4.467
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −717.4
Std Dev 733.9
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0003781
Std Dev 0.1827
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

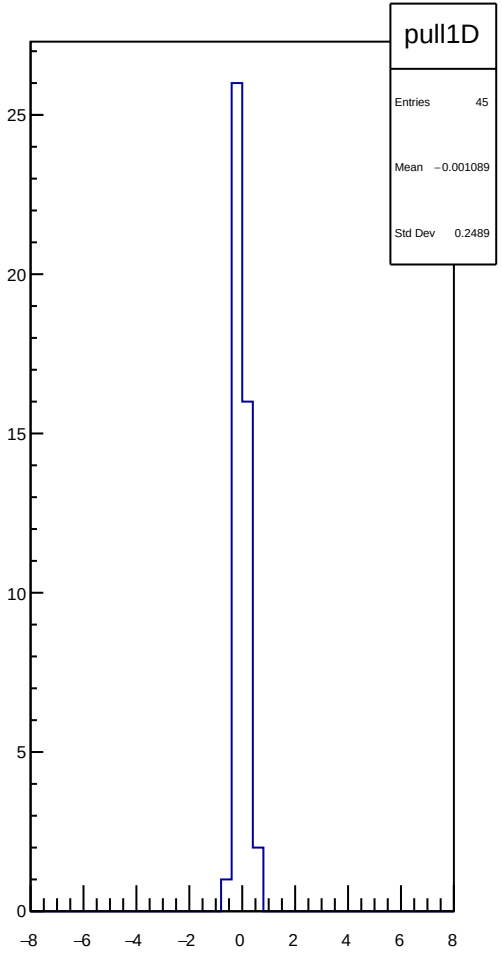

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4137 / 44
p0 16.8 ± 5.912
pull
Entries 45
Mean 129.1
Std Dev 112.6

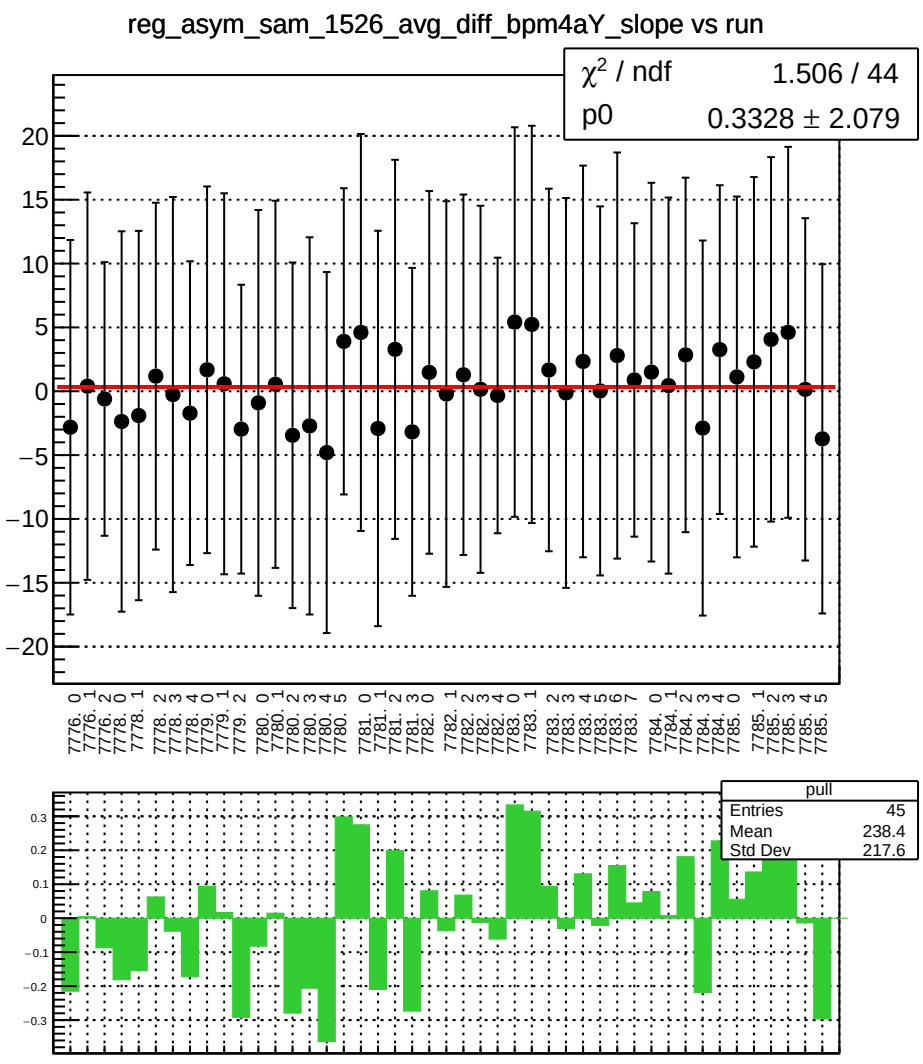

pull1D
Entries 45
Mean −0.002055
Std Dev 0.09586

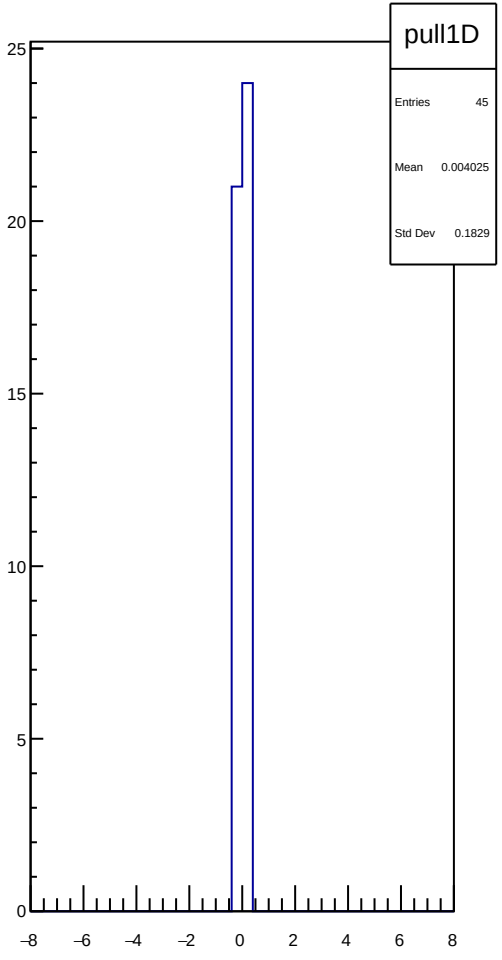

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 0.7963 / 44
p0 −2.092 ± 0.1865
pull
Entries 45
Mean 1.576e+04
Std Dev 1.574e+04

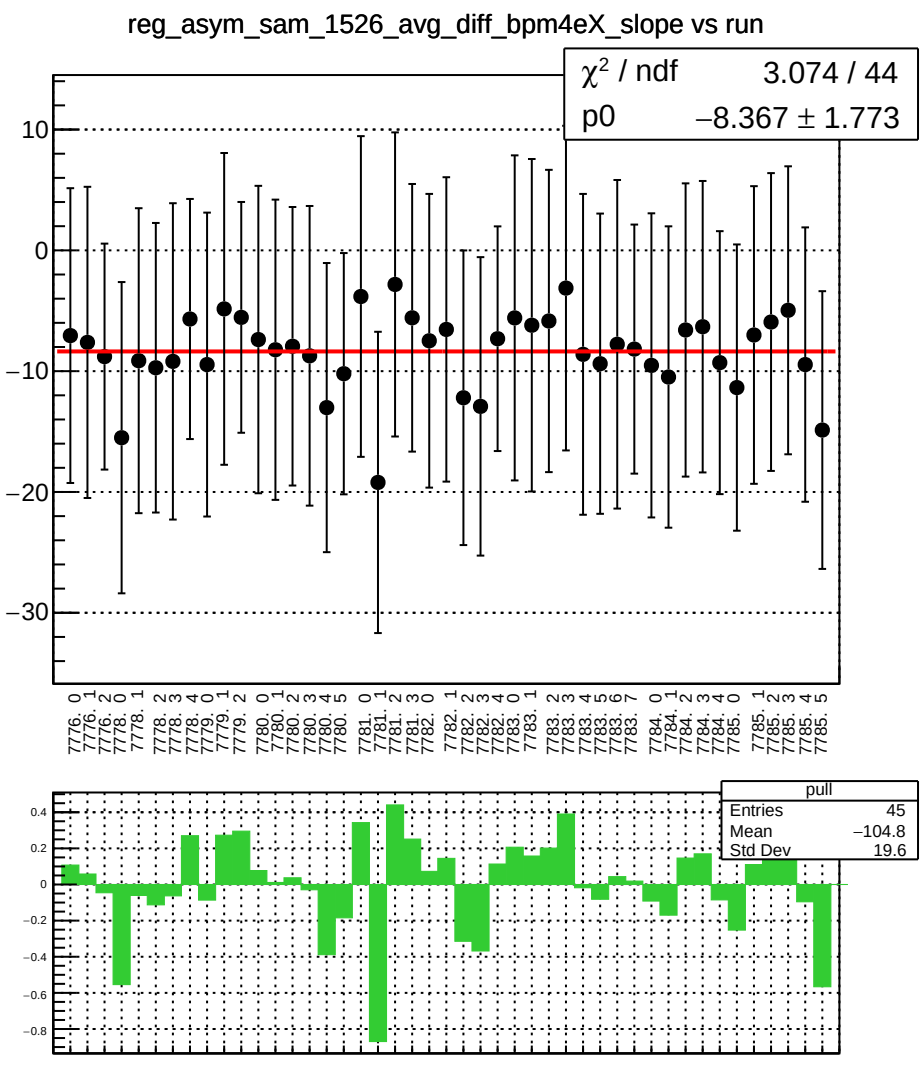

pull1D
Entries 45
Mean 2.068e−05
Std Dev 0.133

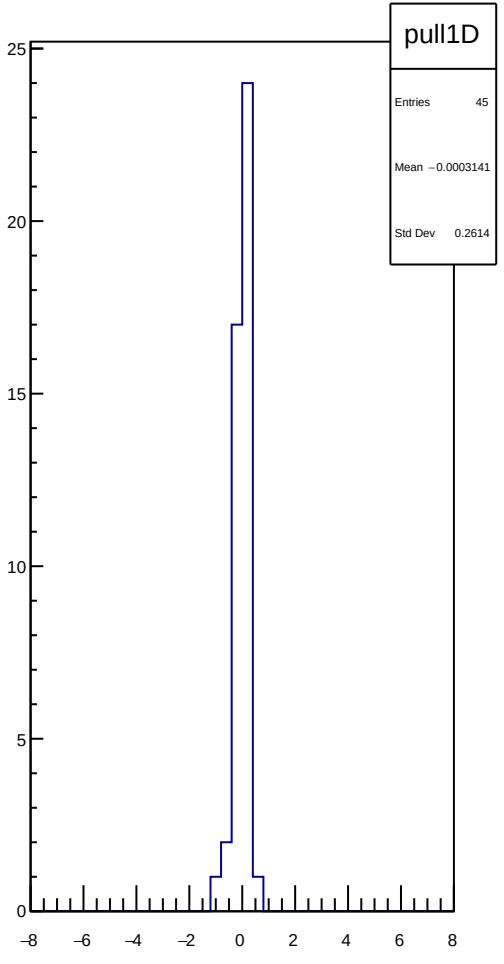

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 2.787 / 44
p0 −34.63 ± 2.037
−10
−20
−30
−40
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −427.5
Std Dev 454.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4

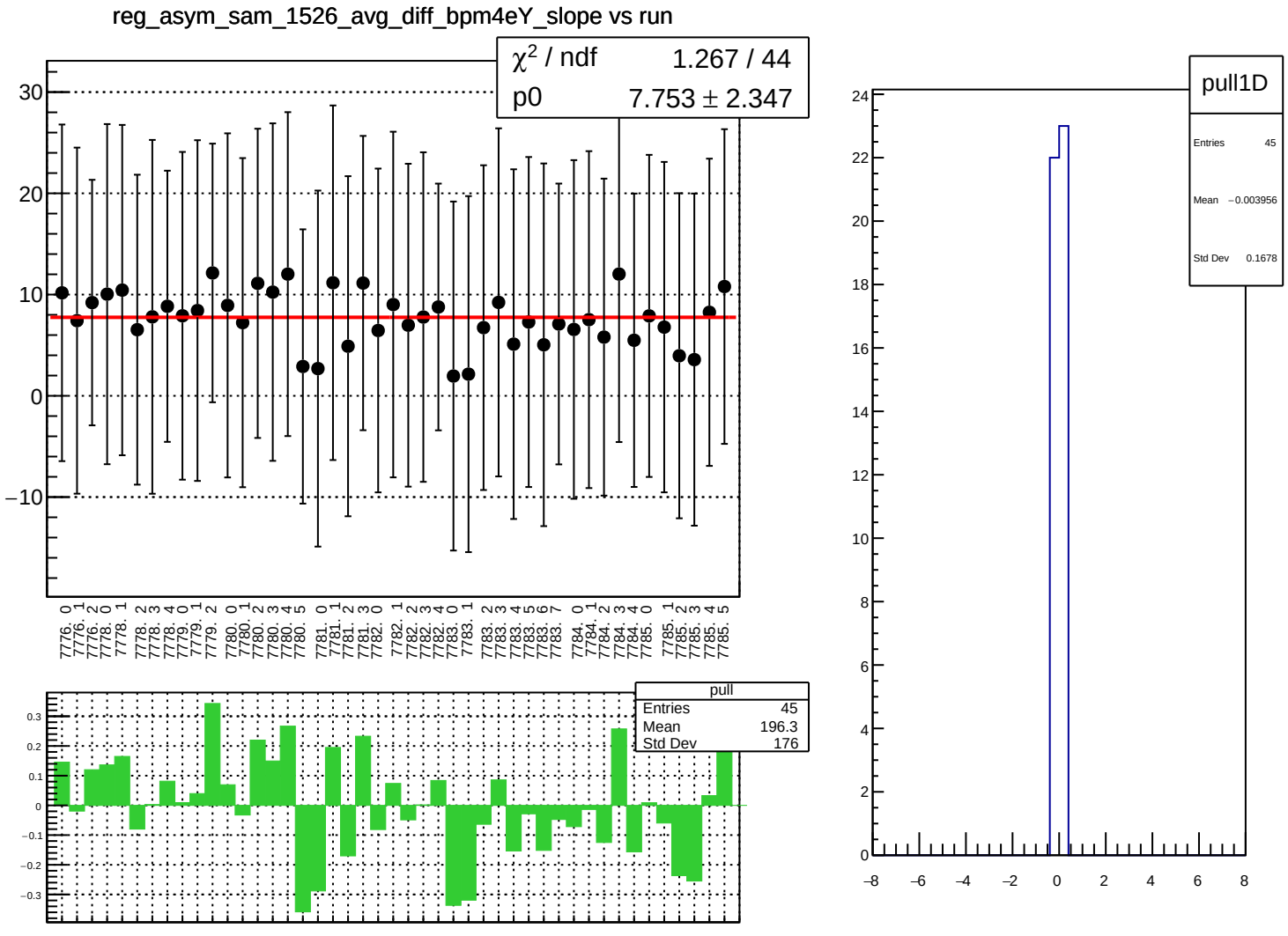

pull1D
Entries 45
Mean −0.001089
Std Dev 0.2489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

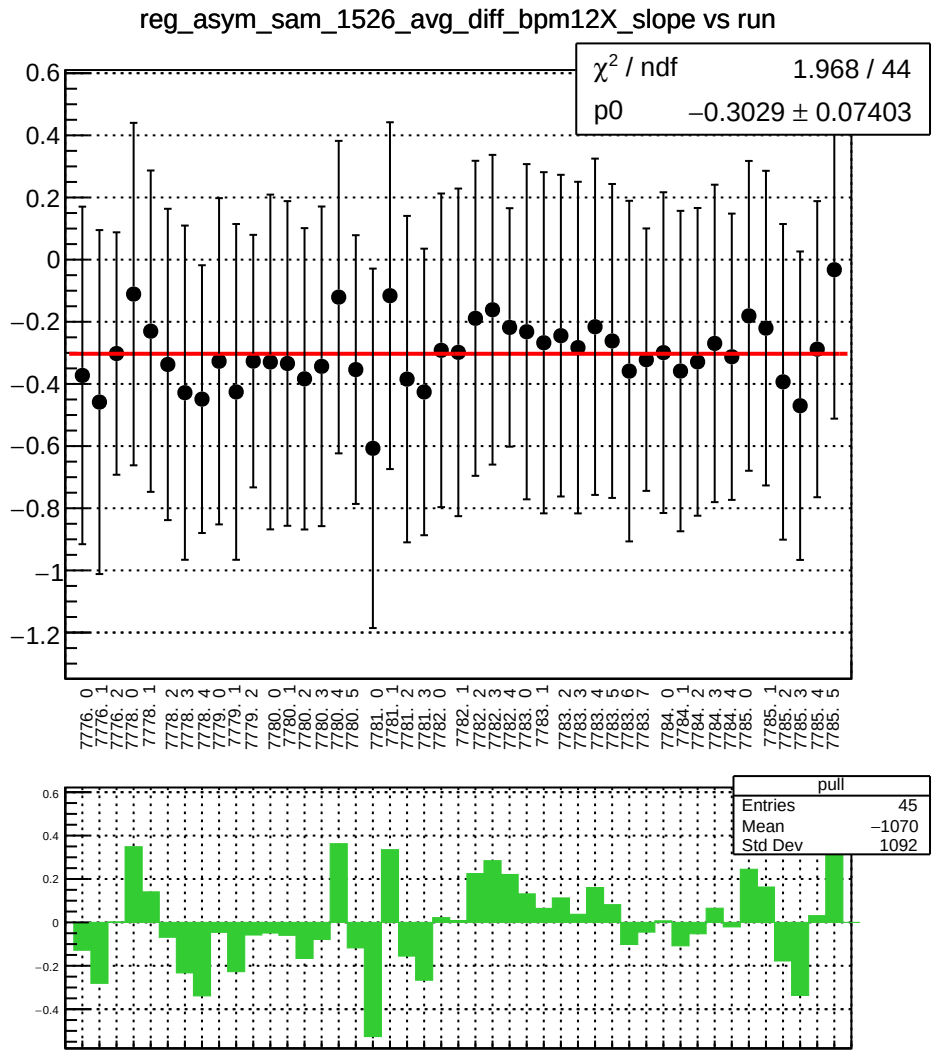

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.506 / 44
p0 0.3328 ± 2.079
pull
Entries 45
Mean 238.4
Std Dev 217.6

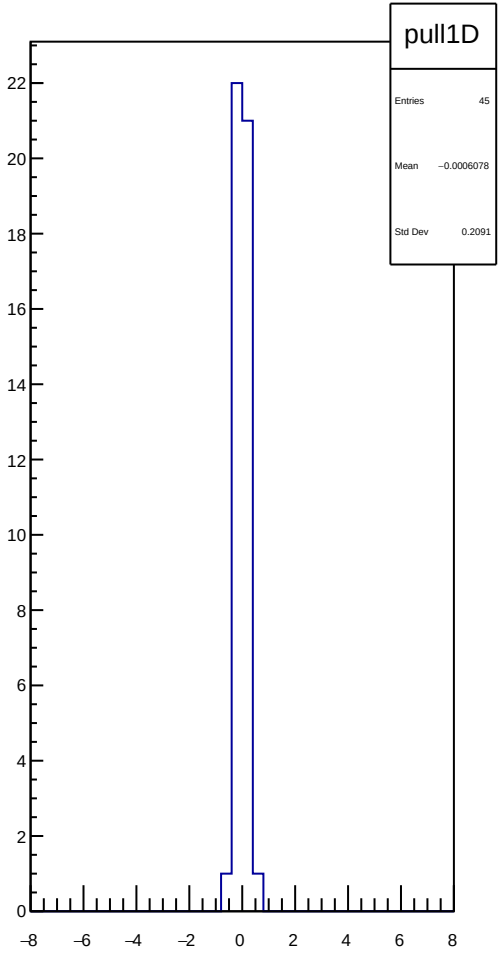

pull1D
Entries 45
Mean 0.004025
Std Dev 0.1829

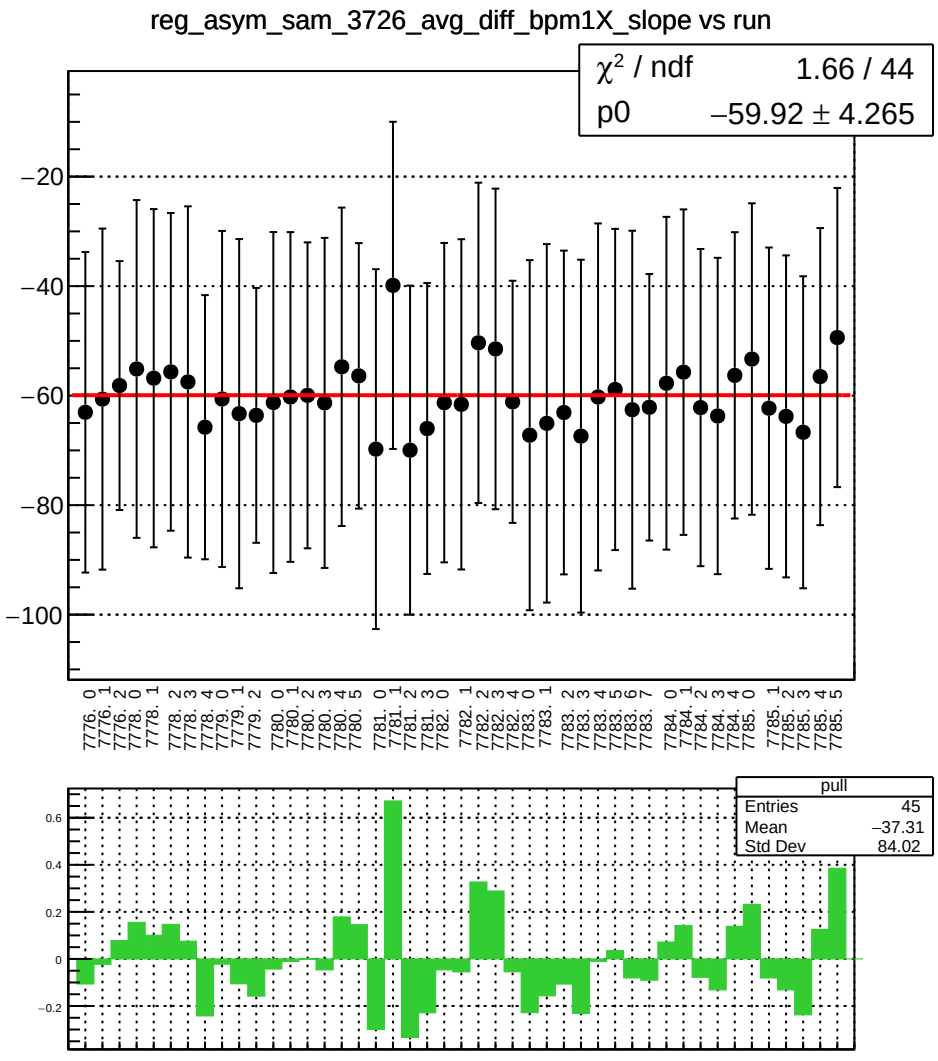

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.074 / 44
p0 −8.367 ± 1.773
pull
Entries 45
Mean −104.8
Std Dev 19.6

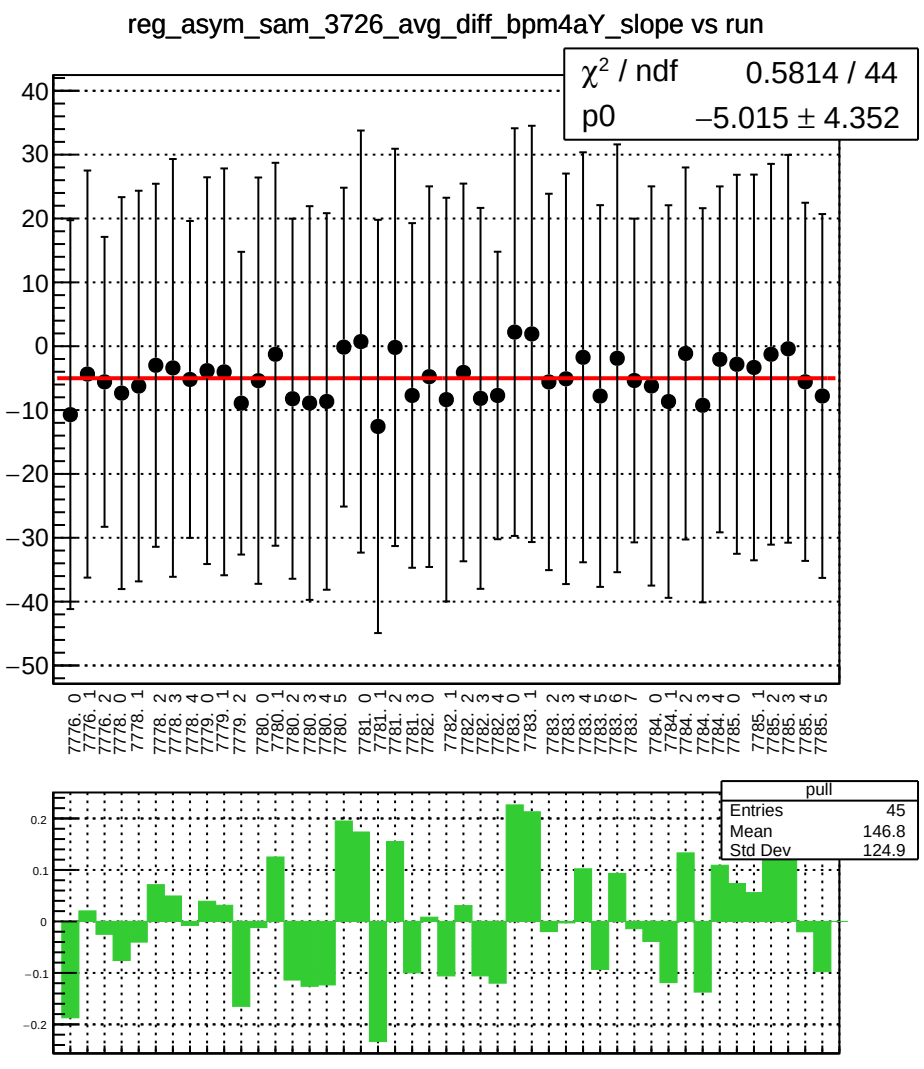

pull1D
Entries 45
Mean −0.0003141
Std Dev 0.2614

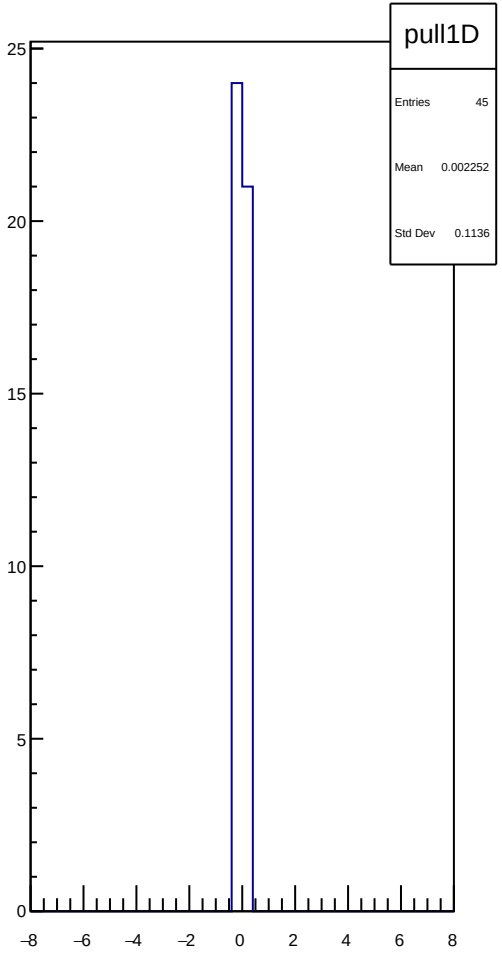

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.267 / 44
p0 7.753 ± 2.347
pull
Entries 45
Mean 196.3
Std Dev 176
pull1D
Entries 45
Mean −0.003956
Std Dev 0.1678

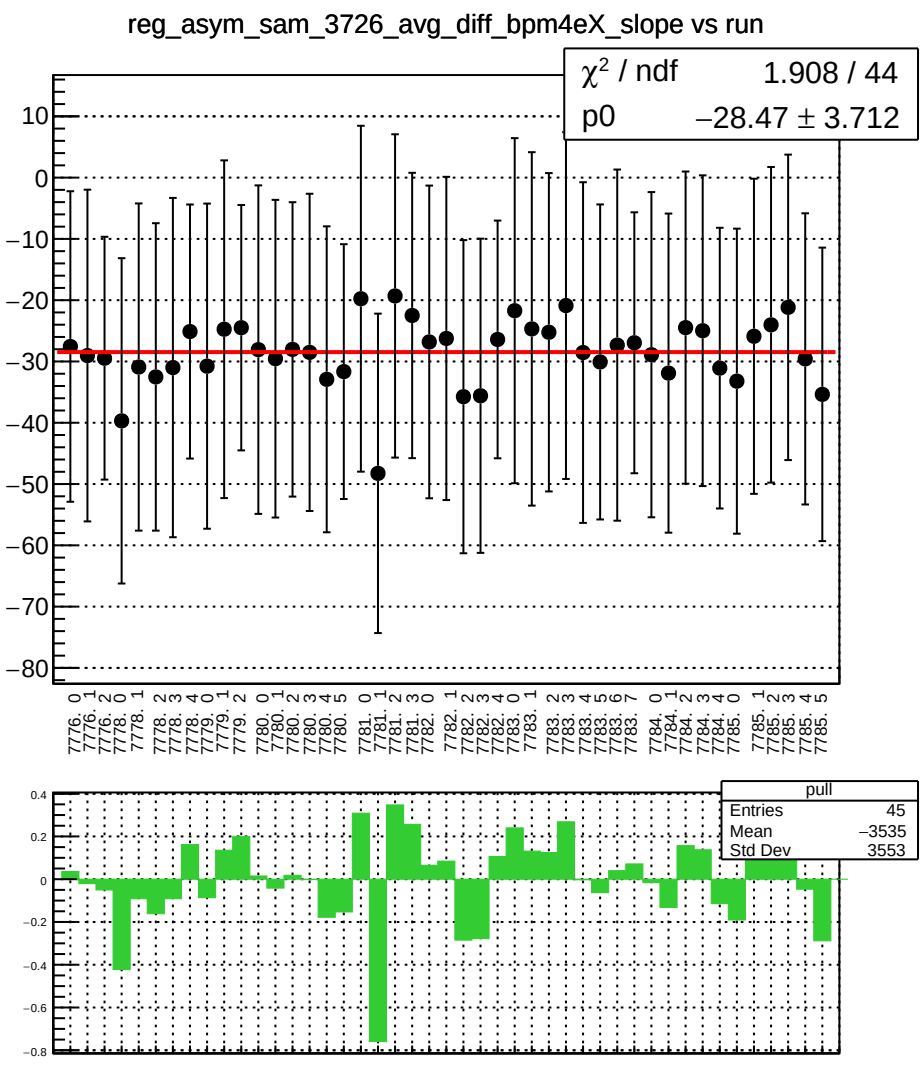

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 1.968 / 44
p0 −0.3029 ± 0.07403
pull
Entries 45
Mean −1070
Std Dev 1092

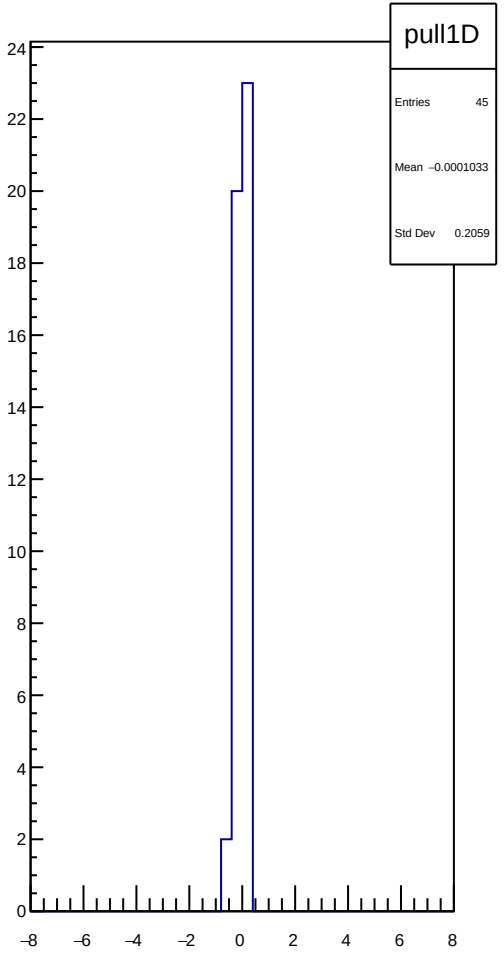

pull1D
Entries 45
Mean −0.0006078
Std Dev 0.2091

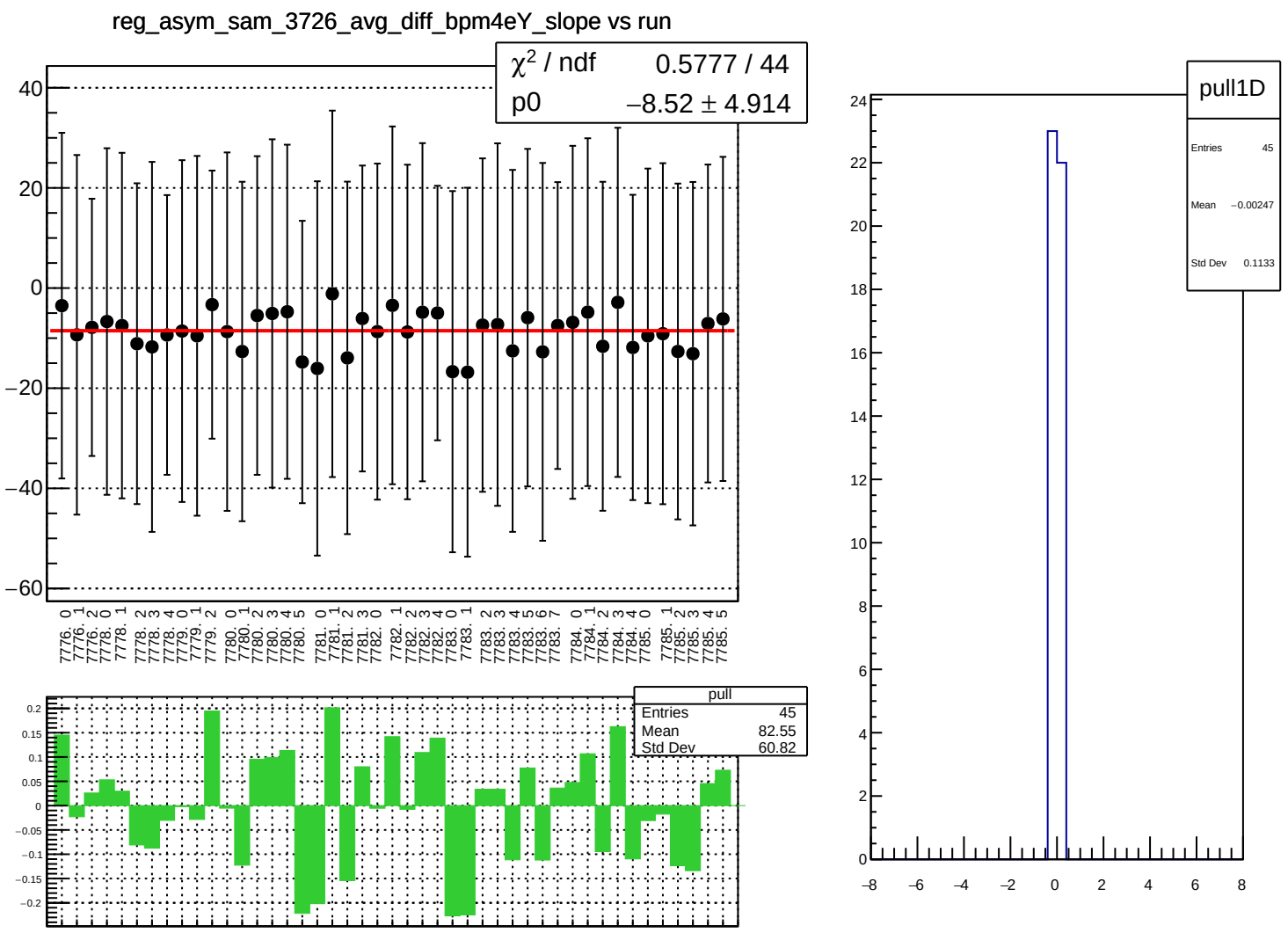

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 1.66 / 44
p0 −59.92 ± 4.265
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.31
Std Dev 84.02
0.6
0.4
0.2
0
−0.2
pull1D
Entries 45
Mean −0.0009648
Std Dev 0.1921
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

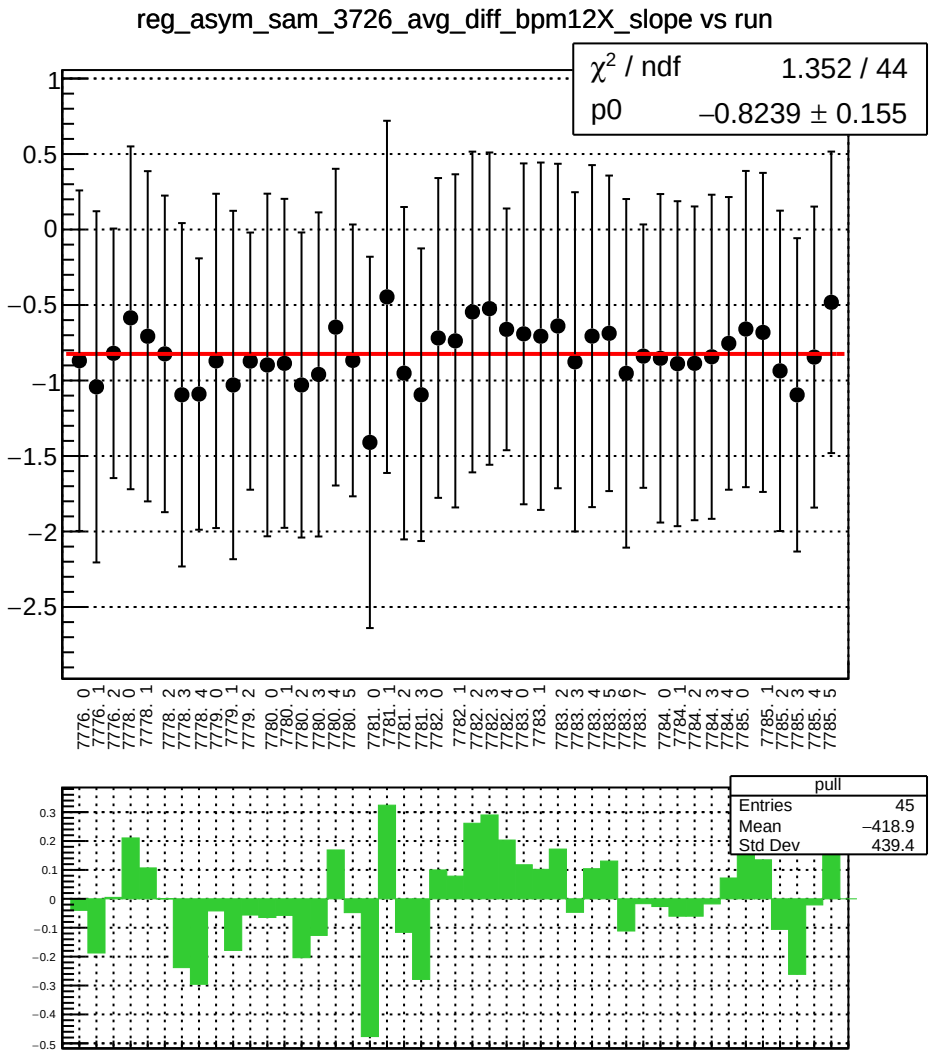

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.5814 / 44
p0 −5.015 ± 4.352
pull
Entries 45
Mean 146.8
Std Dev 124.9

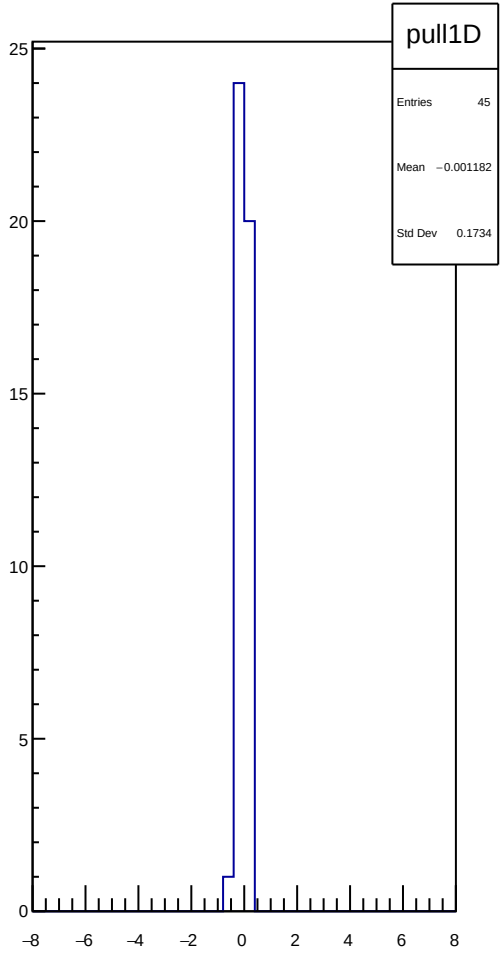

pull1D
Entries 45
Mean 0.002252
Std Dev 0.1136

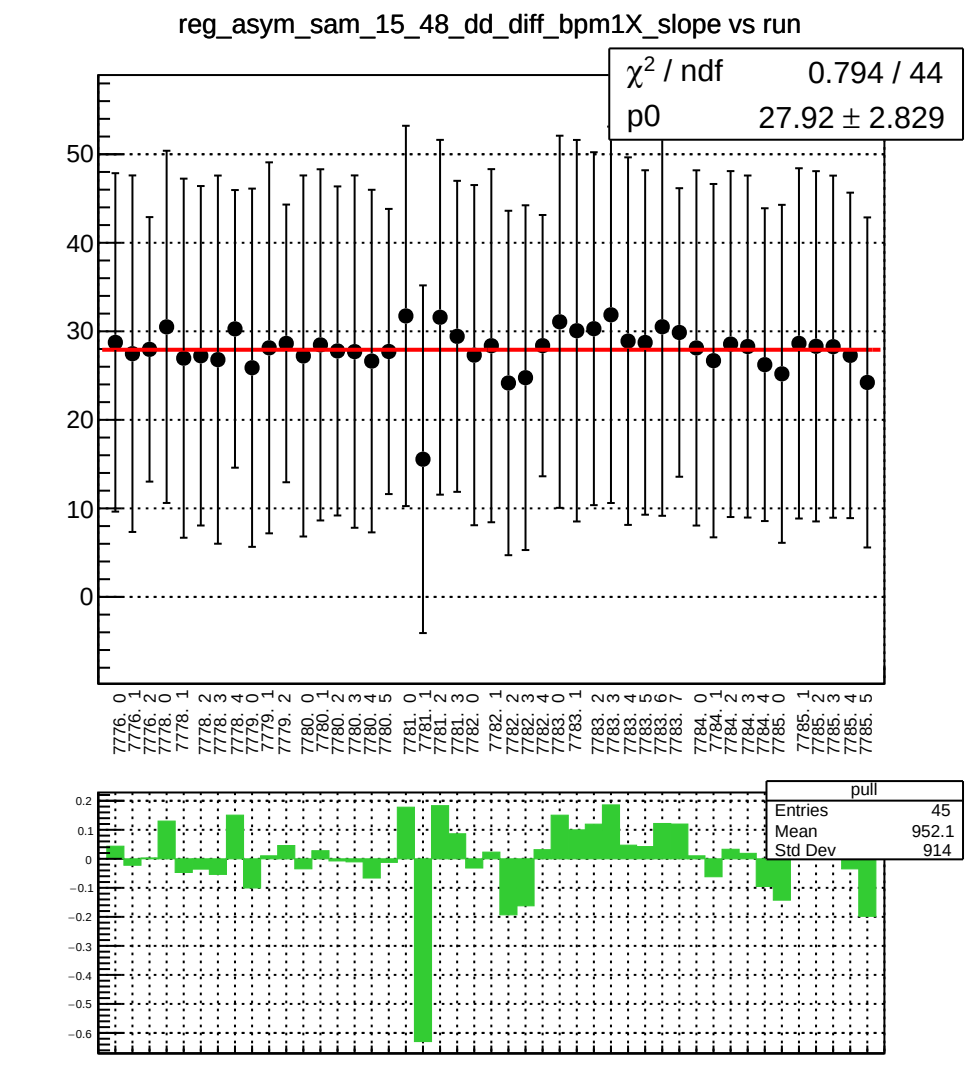

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.908 / 44
p0 −28.47 ± 3.712
pull
Entries 45
Mean −3535
Std Dev 3553

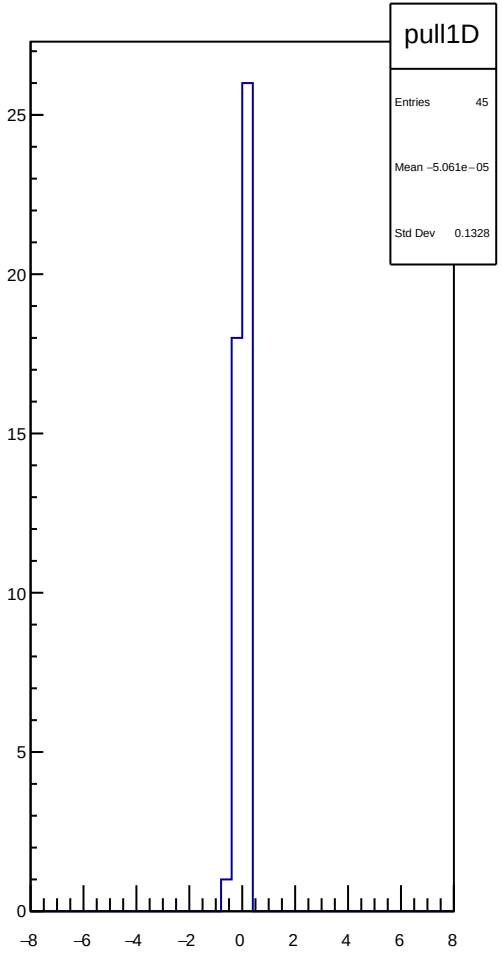

pull1D
Entries 45
Mean −0.0001033
Std Dev 0.2059

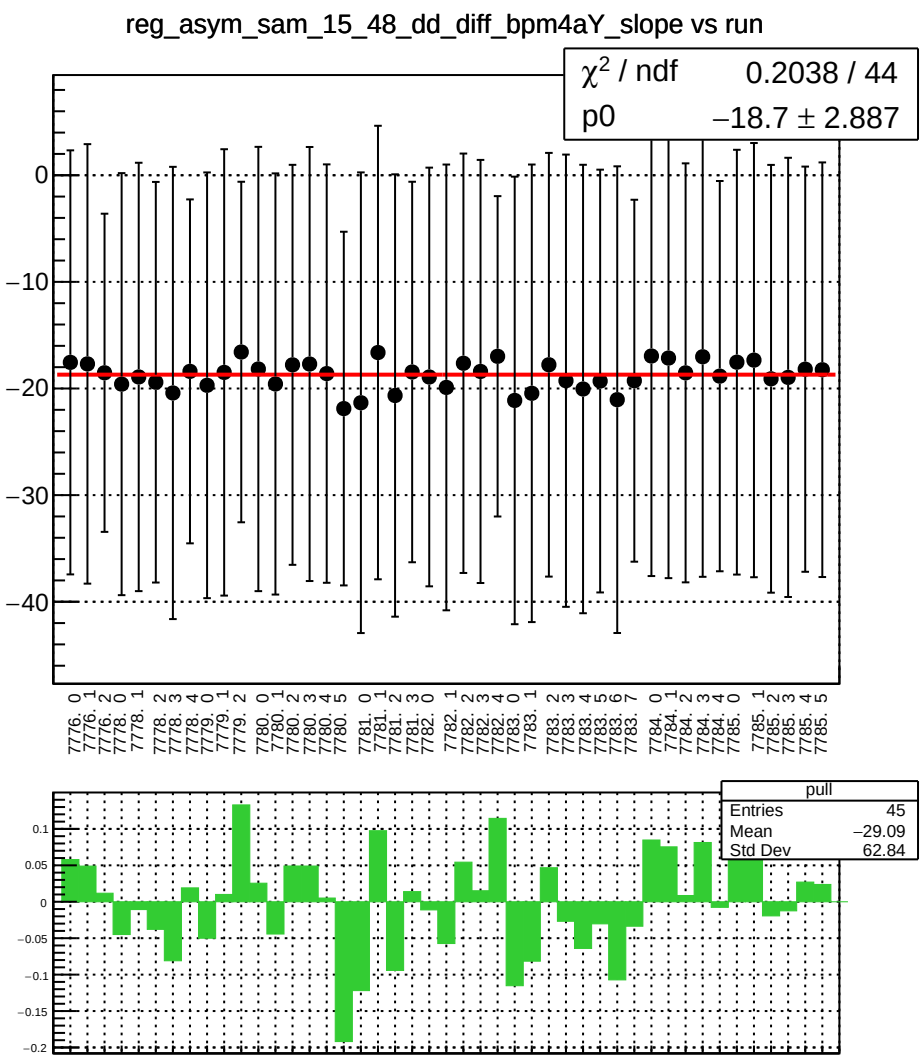

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5777 / 44
p0 −8.52 ± 4.914
pull
Entries 45
Mean 82.55
Std Dev 60.82
pull1D
Entries 45
Mean −0.00247
Std Dev 0.1133

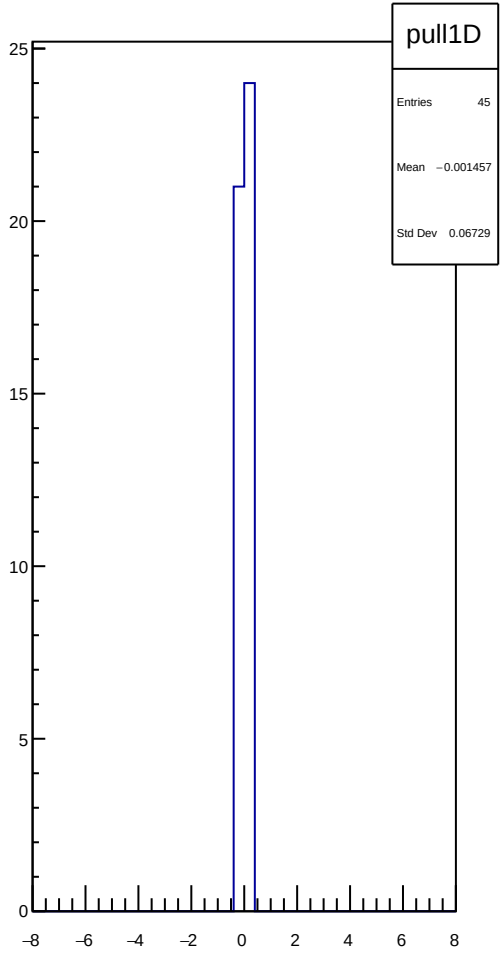

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 1.352 / 44
p0 −0.8239 ± 0.155
pull
Entries 45
Mean −418.9
Std Dev 439.4

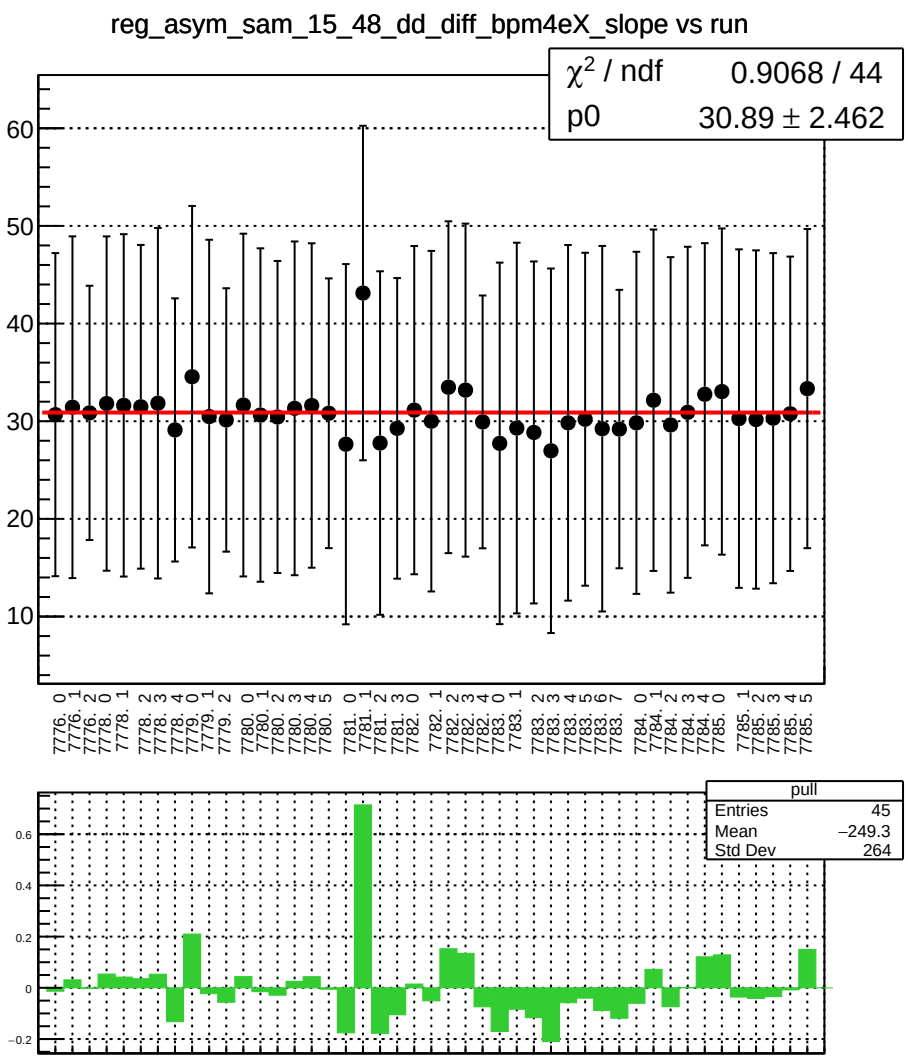

pull1D
Entries 45
Mean −0.001182
Std Dev 0.1734

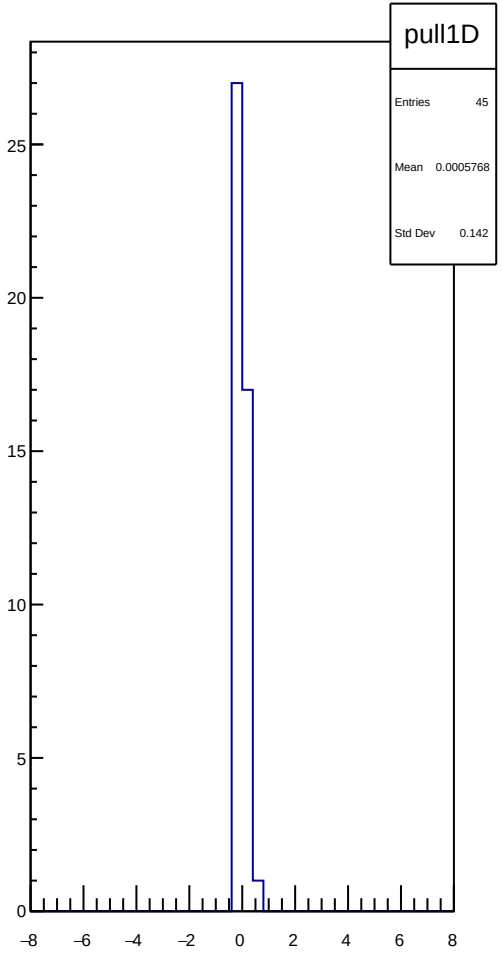

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 0.794 / 44
p0 27.92 ± 2.829
pull
Entries 45
Mean 952.1
Std Dev 914

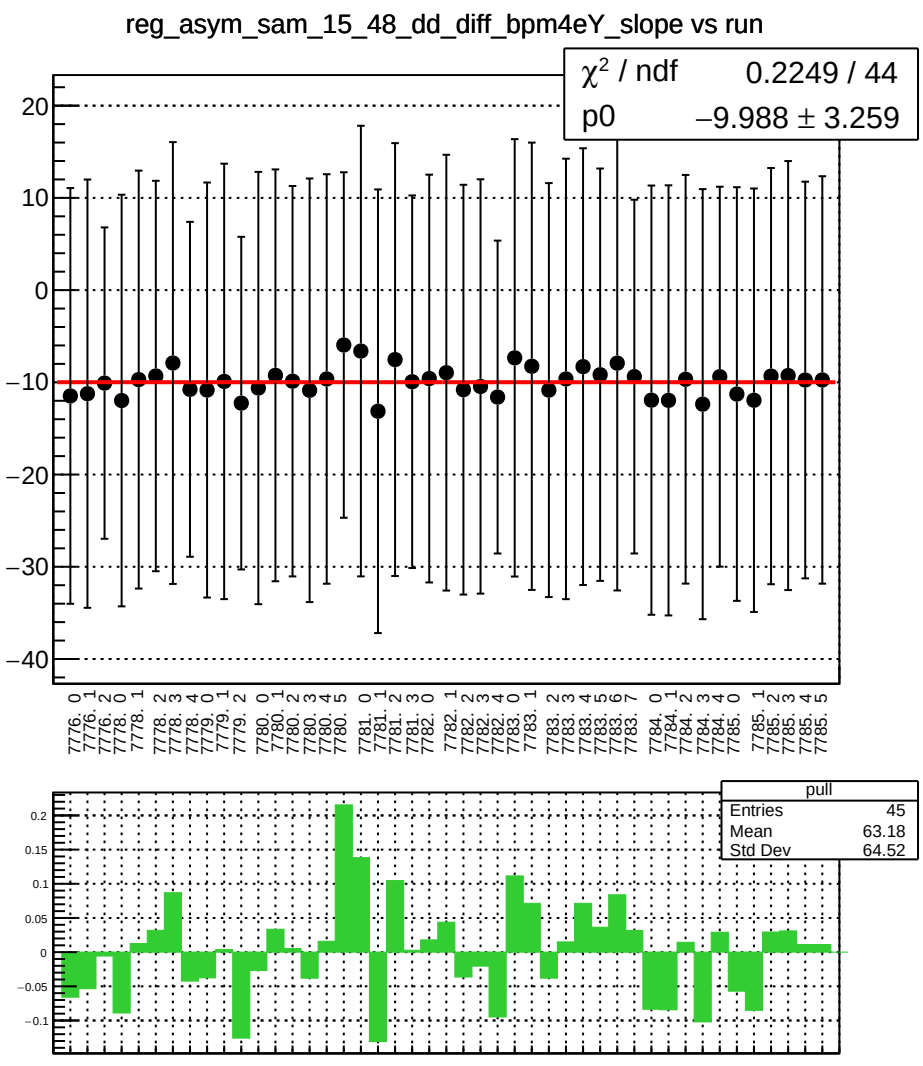

pull1D
Entries 45
Mean −5.061e−05
Std Dev 0.1328

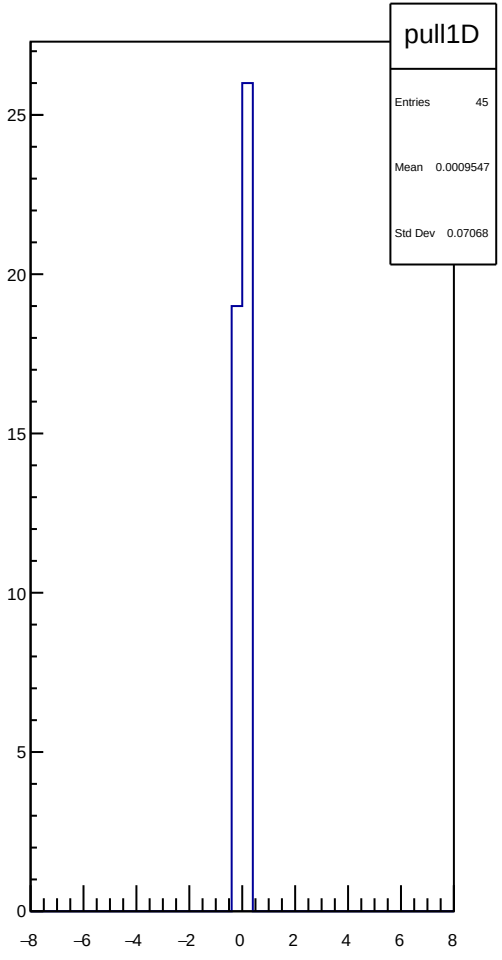

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.2038 / 44
p0 −18.7 ± 2.887
0
−10
−20
−30
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −29.09
Std Dev 62.84
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2

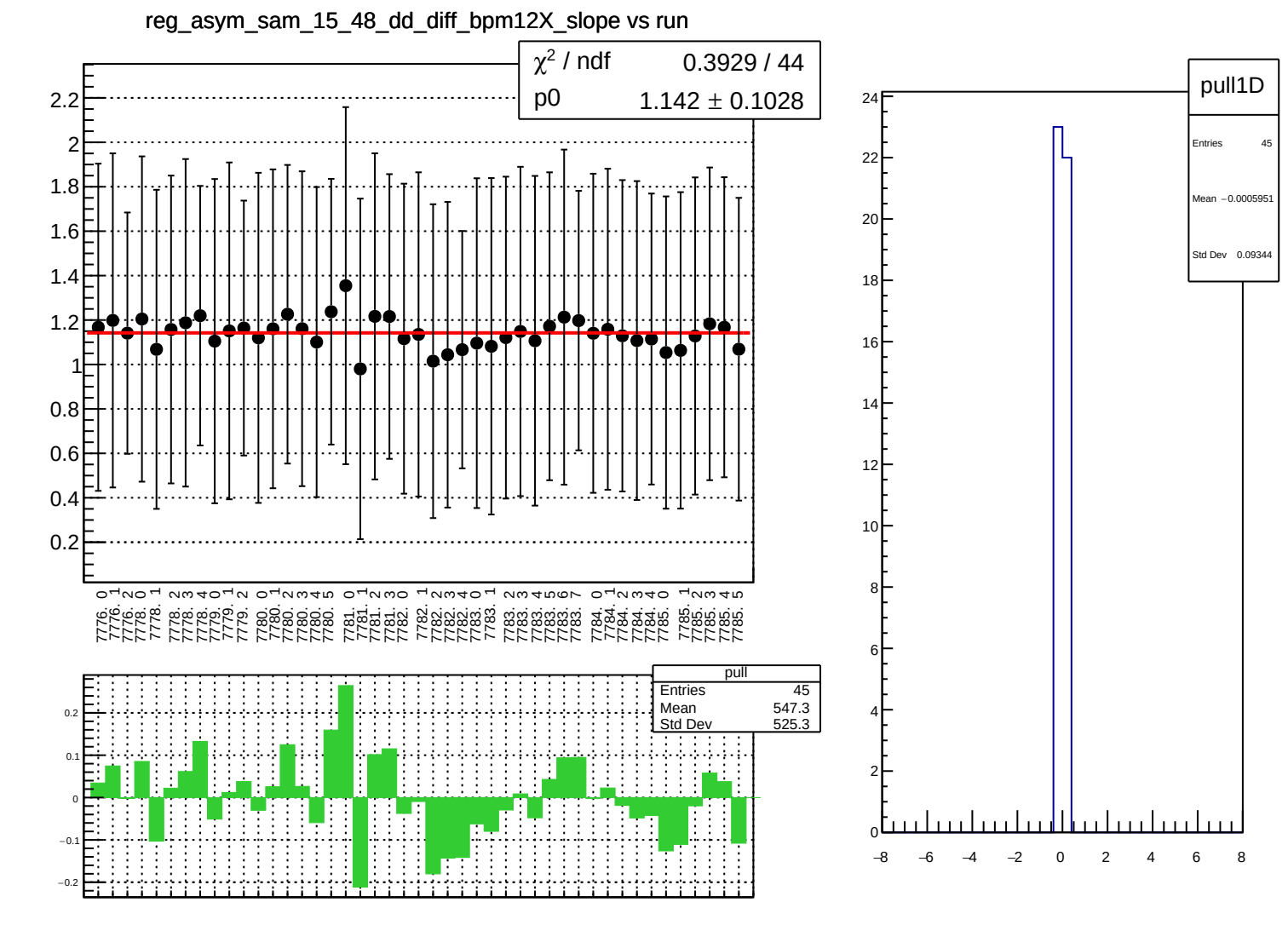

pull1D
Entries 45
Mean −0.001457
Std Dev 0.06729
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

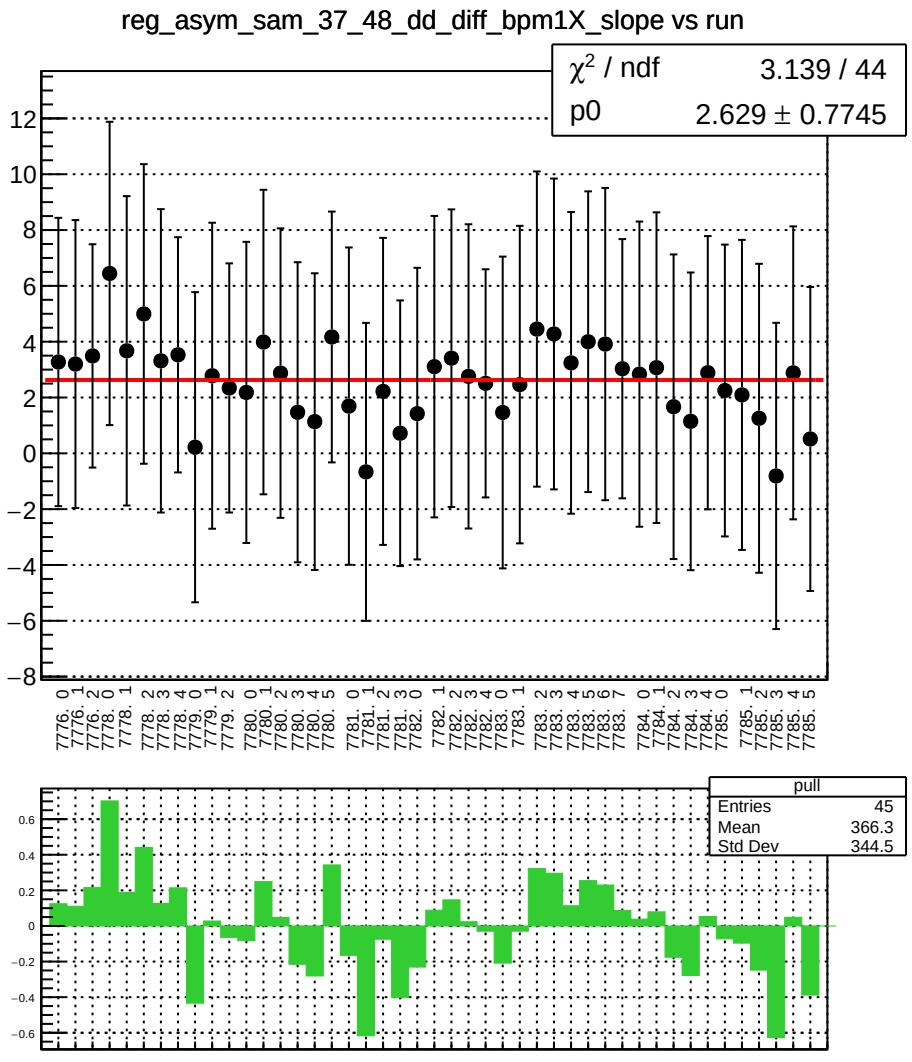

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9068 / 44
p0 30.89 ± 2.462
pull
Entries 45
Mean −249.3
Std Dev 264

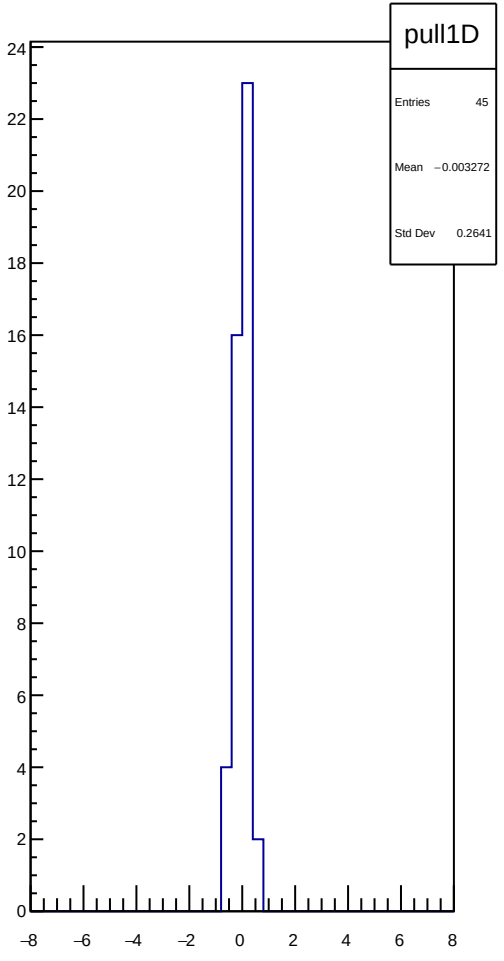

pull1D
Entries 45
Mean 0.0005768
Std Dev 0.142

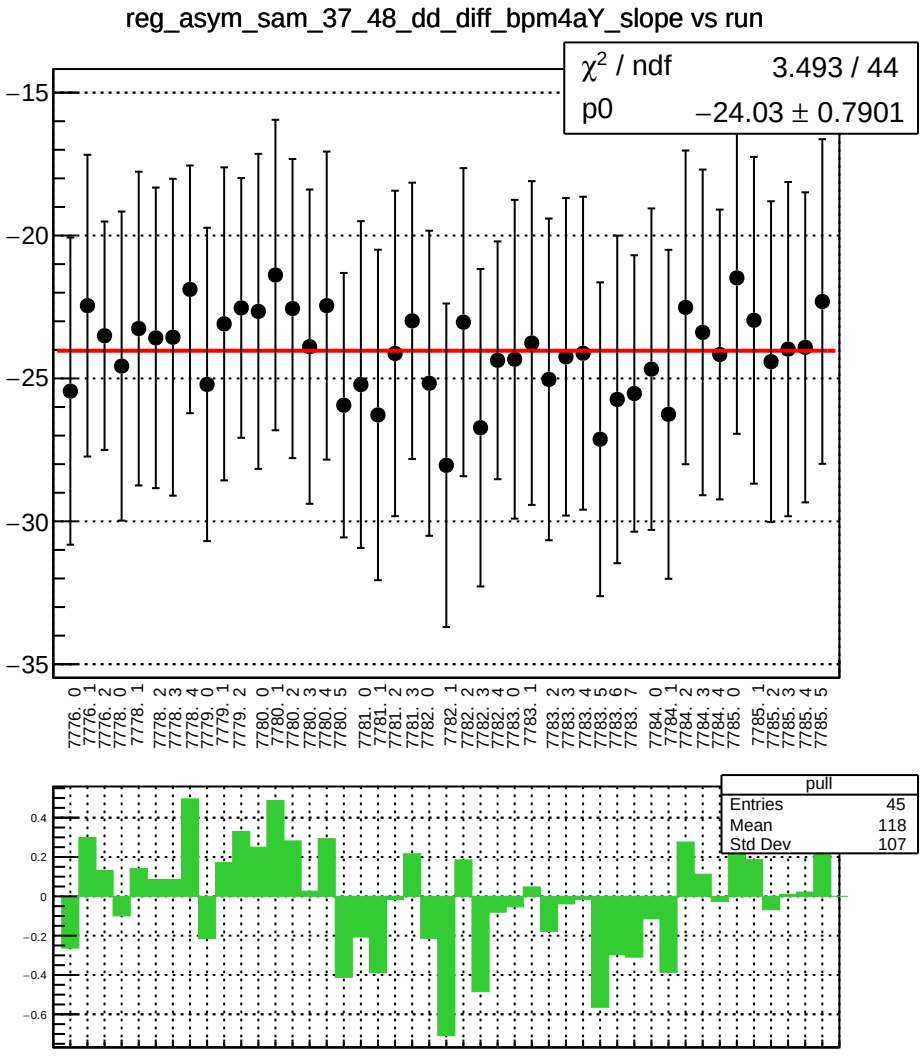

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.2249 / 44
p0 −9.988 ± 3.259
pull
Entries 45
Mean 63.18
Std Dev 64.52

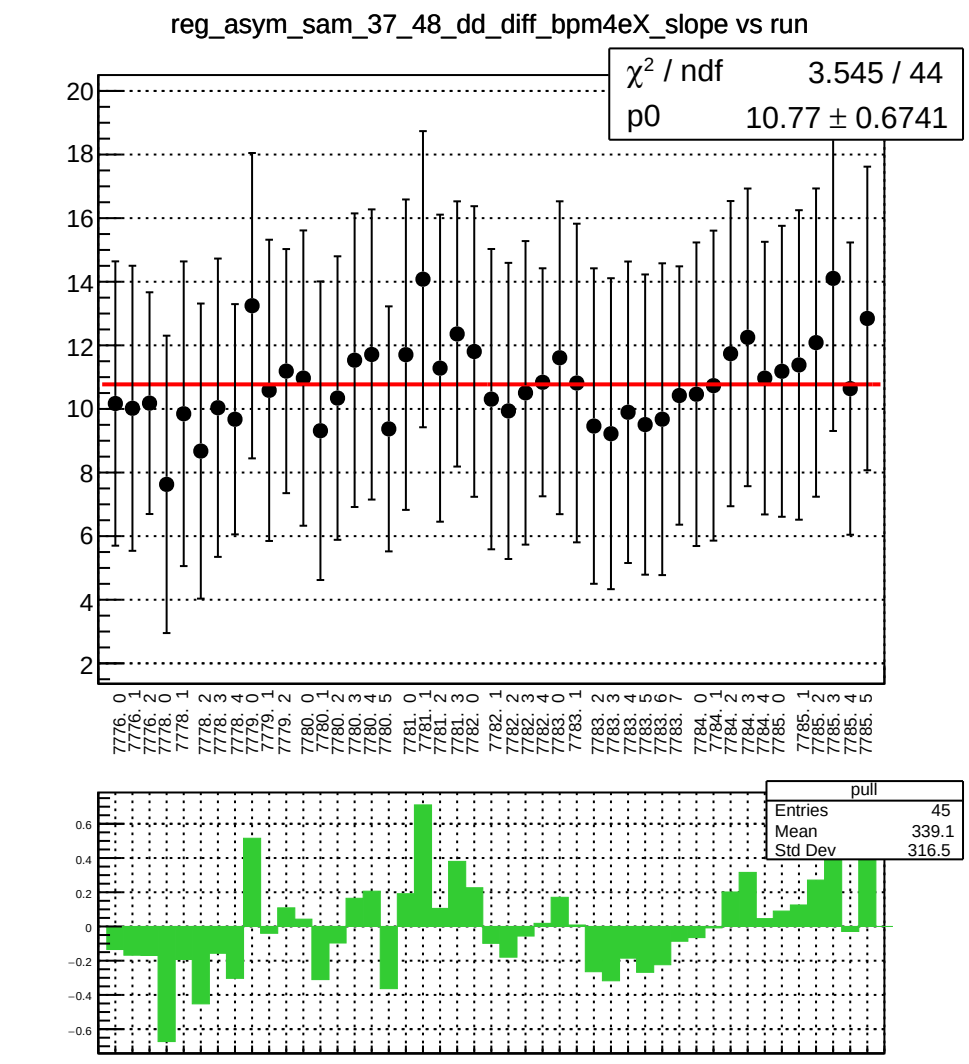

pull1D
Entries 45
Mean 0.0009547
Std Dev 0.07068

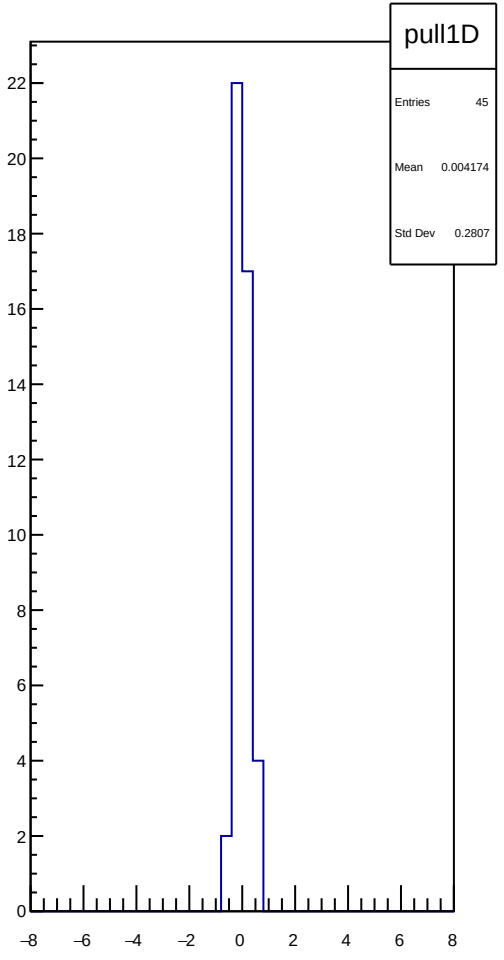

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 0.3929 / 44
p0 1.142 ± 0.1028
pull
Entries 45
Mean 547.3
Std Dev 525.3
pull1D
Entries 45
Mean −0.0005951
Std Dev 0.09344

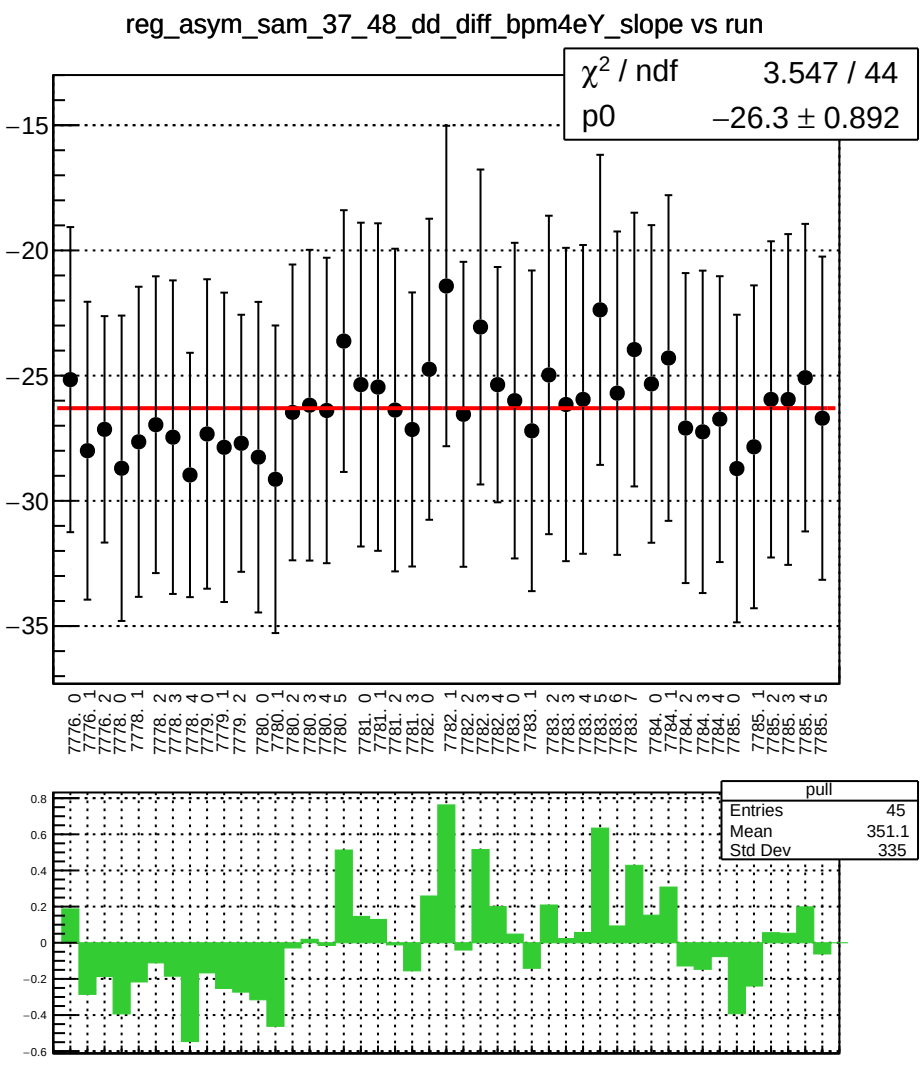

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.139 / 44
p0 2.629 ± 0.7745
pull
Entries 45
Mean 366.3
Std Dev 344.5

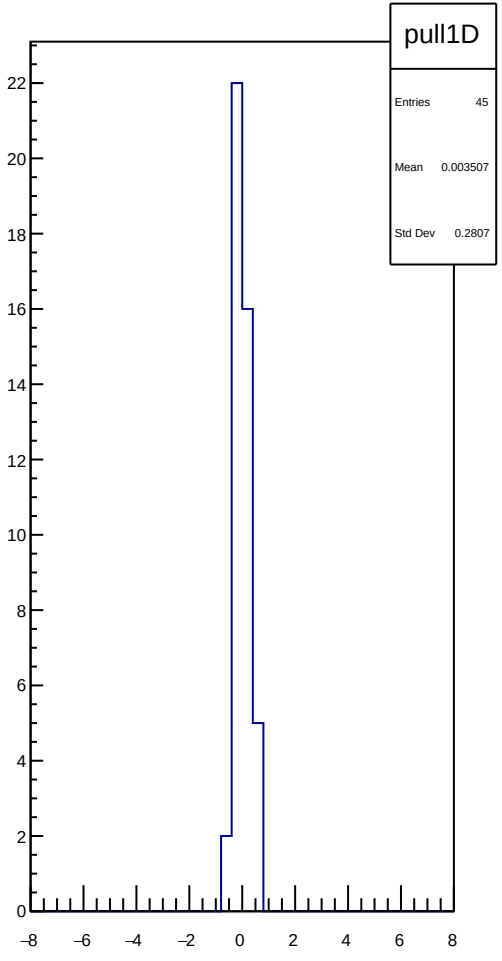

pull1D
Entries 45
Mean −0.003272
Std Dev 0.2641

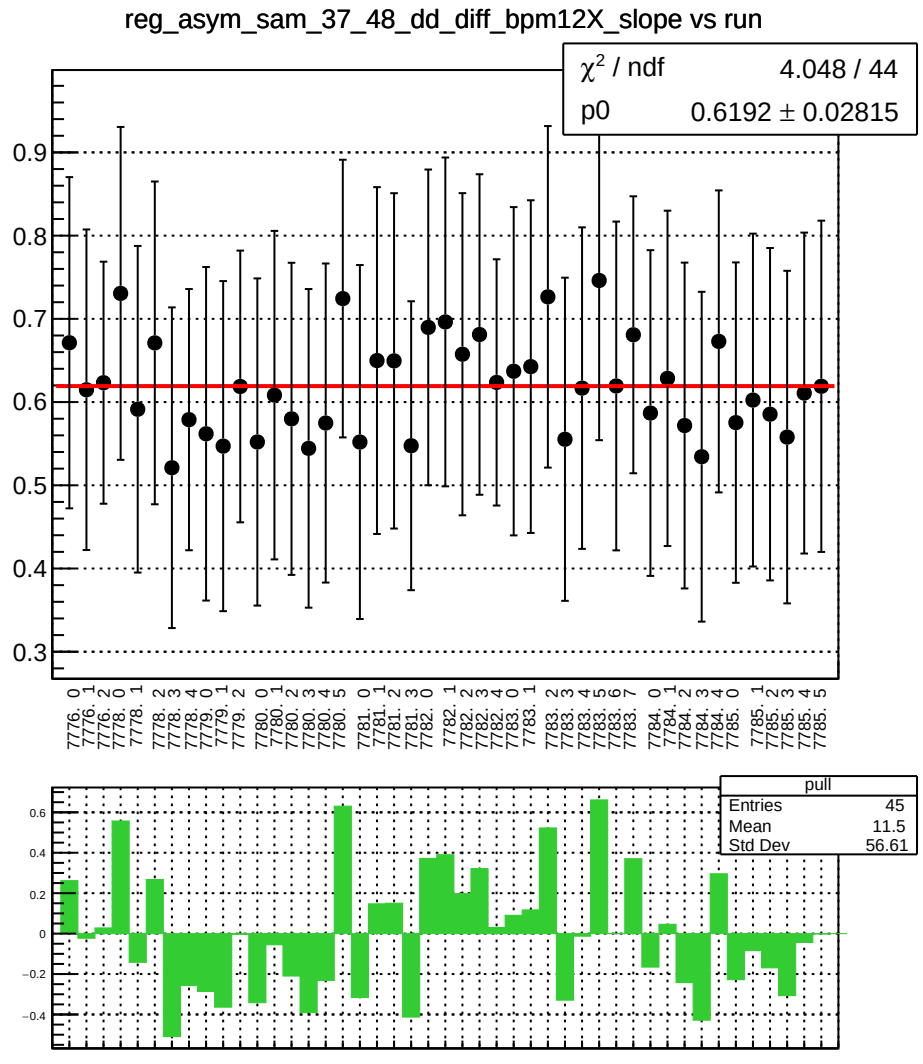

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.493 / 44
p0 −24.03 ± 0.7901
−15
−20
−25
−30
−35
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 118
Std Dev 107
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.005256
Std Dev 0.2786
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

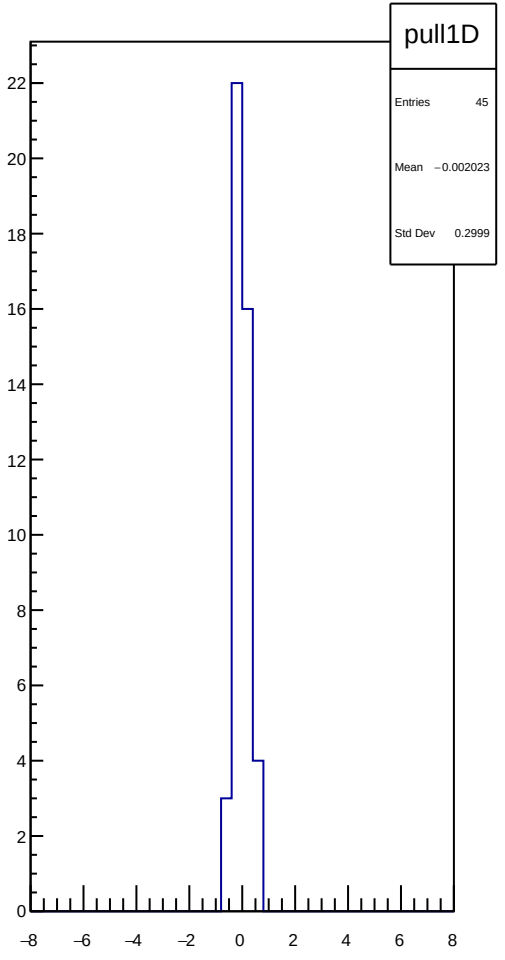

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.545 / 44
p0 10.77 ± 0.6741
pull
Entries 45
Mean 339.1
Std Dev 316.5

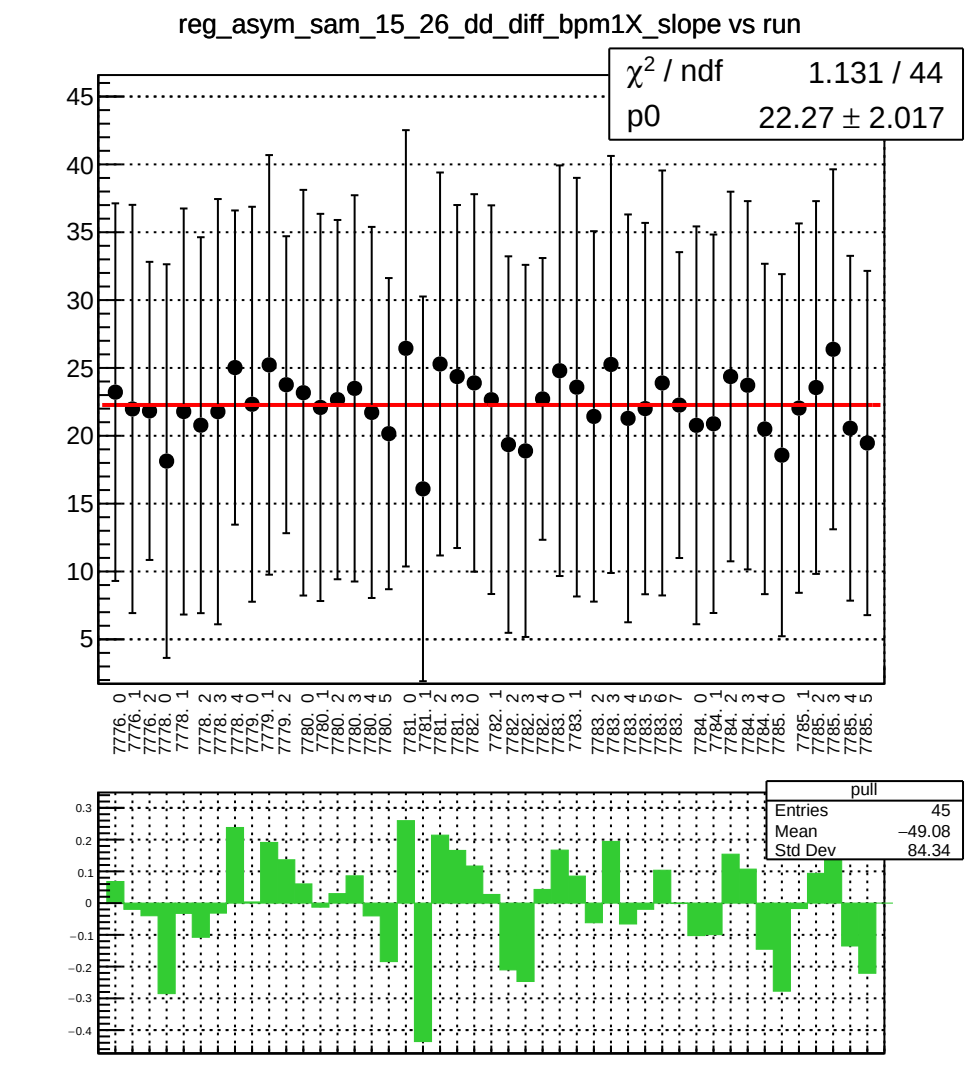

pull1D
Entries 45
Mean 0.004174
Std Dev 0.2807

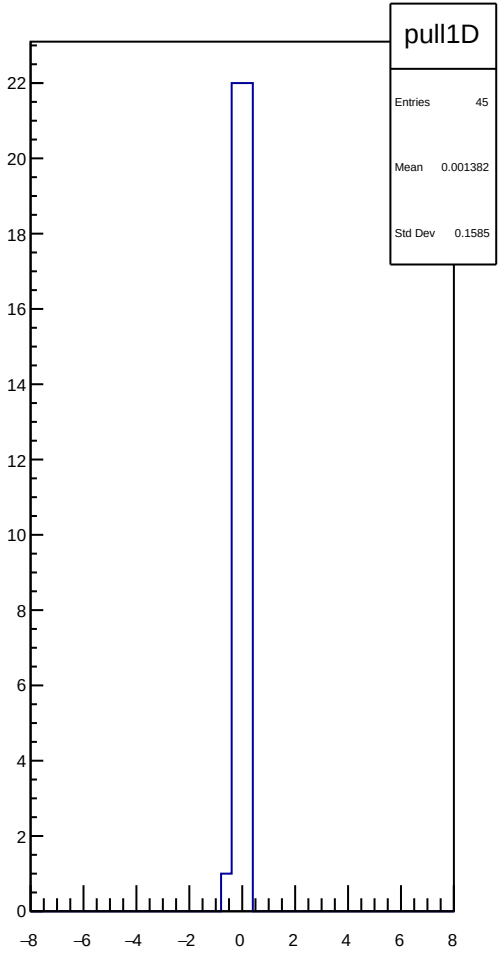

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.547 / 44
p0 −26.3 ± 0.892
pull
Entries 45
Mean 351.1
Std Dev 335

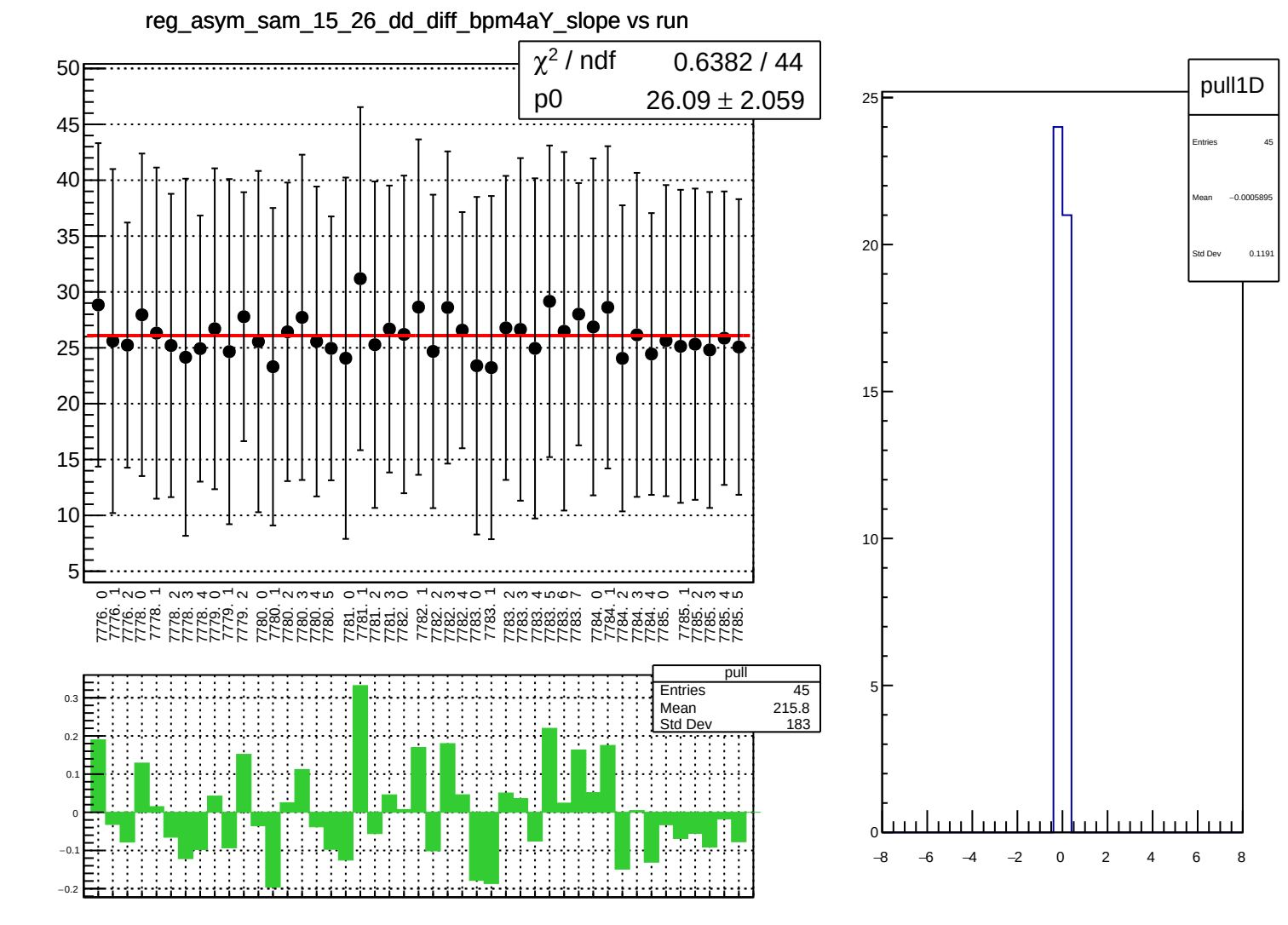

pull1D
Entries 45
Mean 0.003507
Std Dev 0.2807

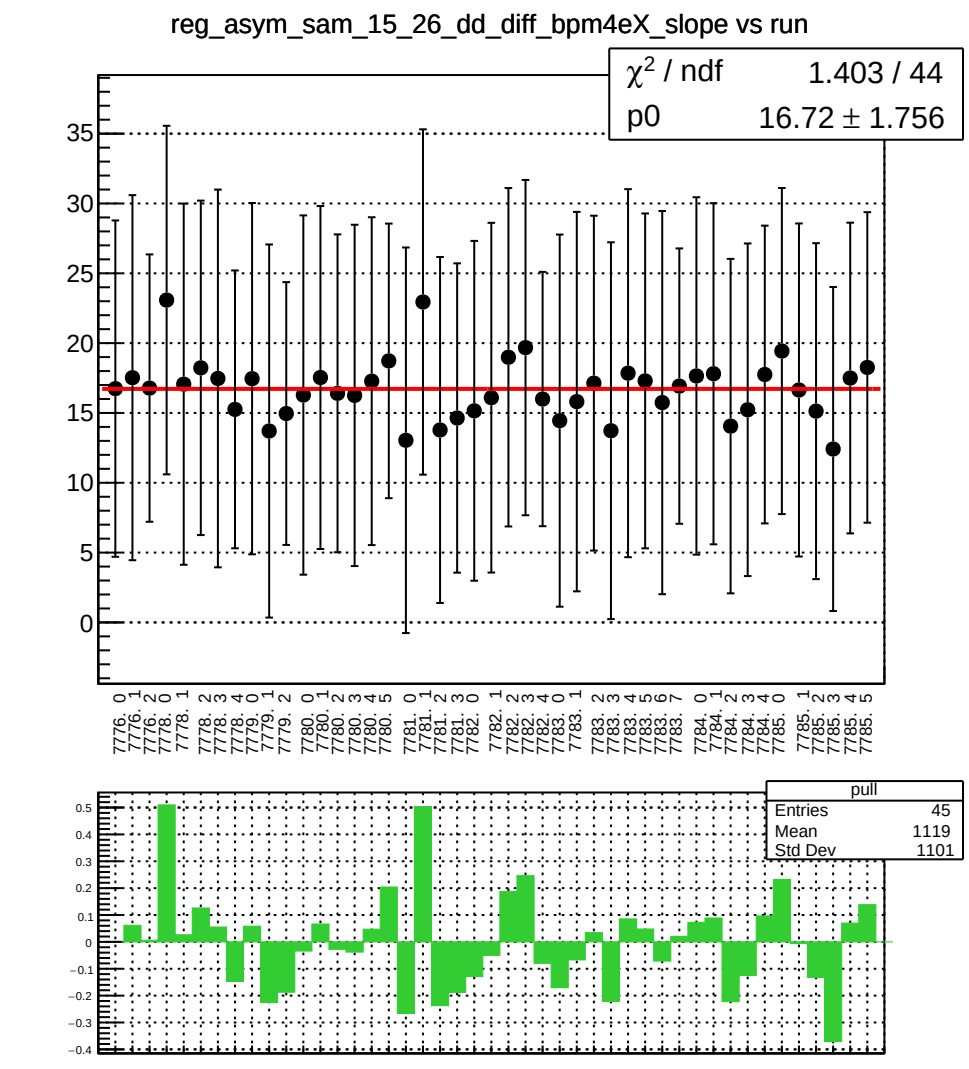

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 4.048 / 44
p0 0.6192 ± 0.02815
pull
Entries 45
Mean 11.5
Std Dev 56.61

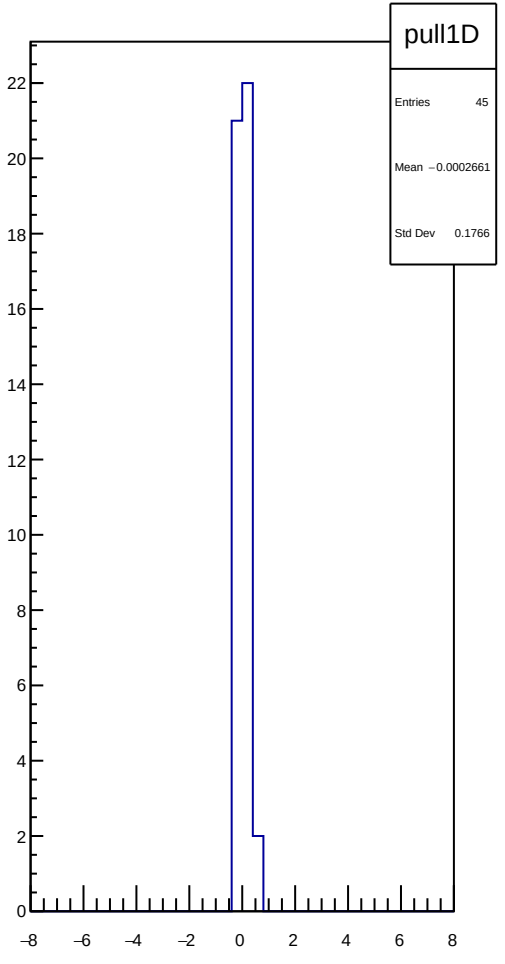

pull1D
Entries 45
Mean −0.002023
Std Dev 0.2999

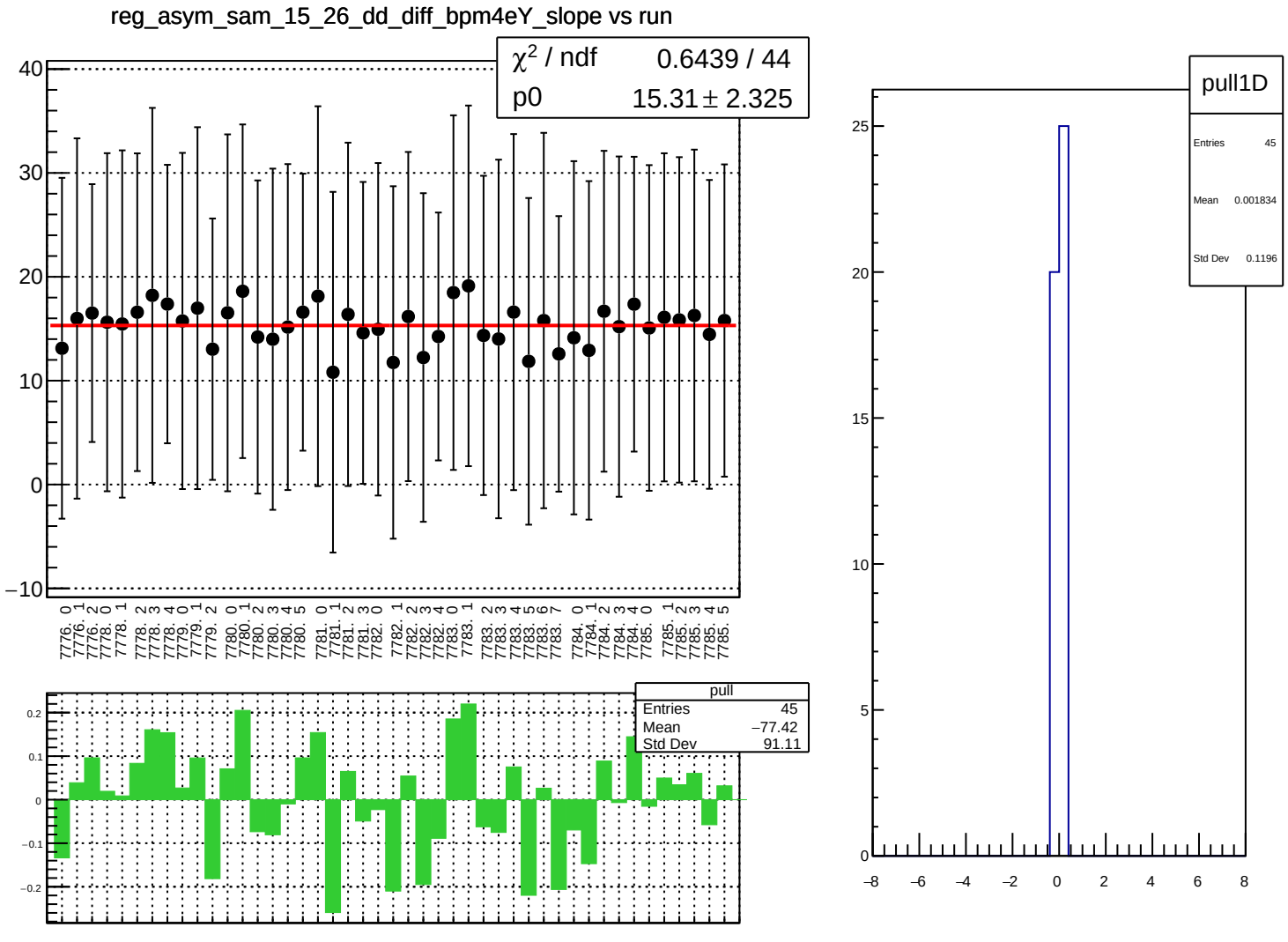

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.131 / 44
p0 22.27 ± 2.017
pull
Entries 45
Mean −49.08
Std Dev 84.34

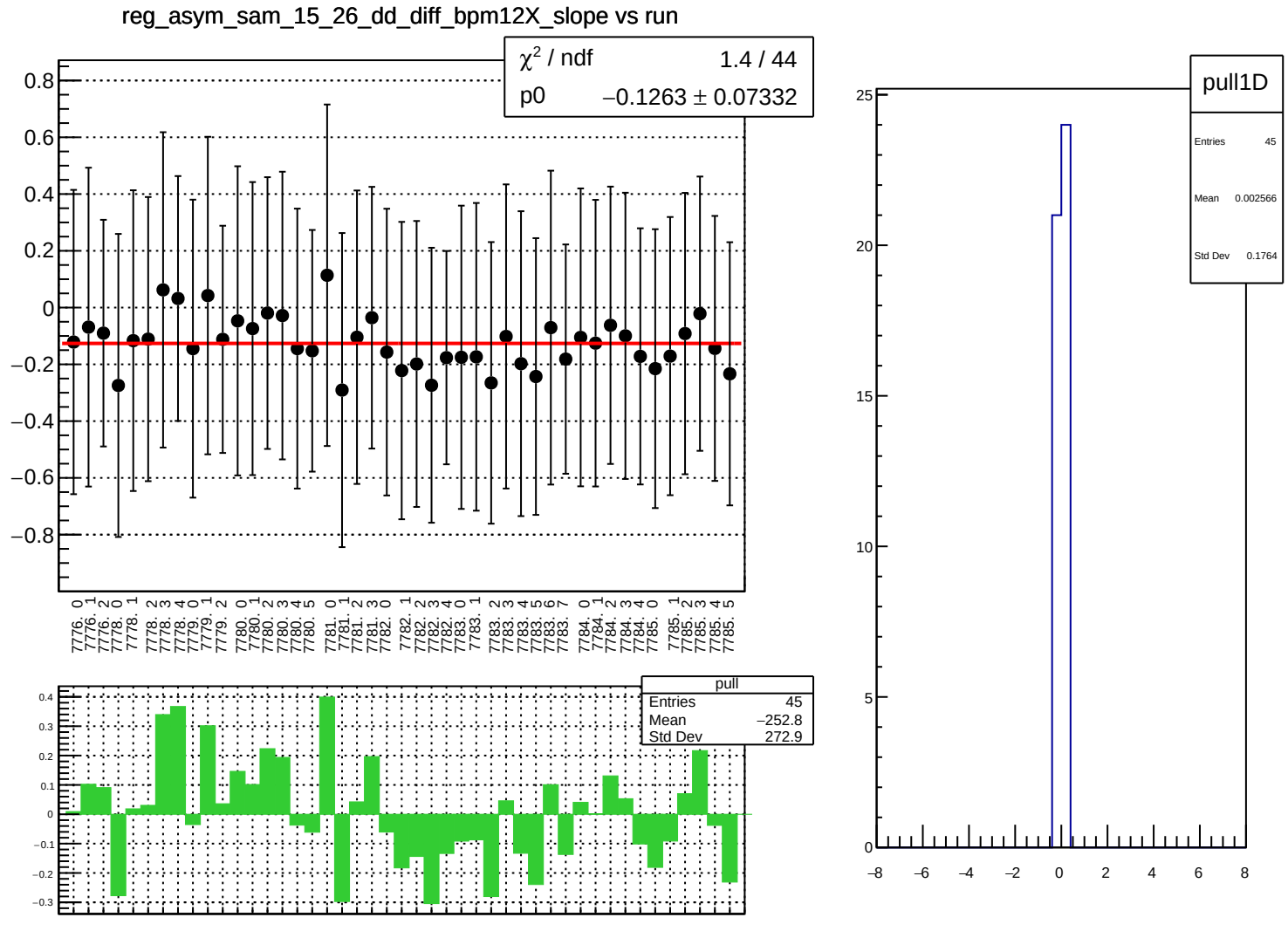

pull1D
Entries 45
Mean 0.001382
Std Dev 0.1585

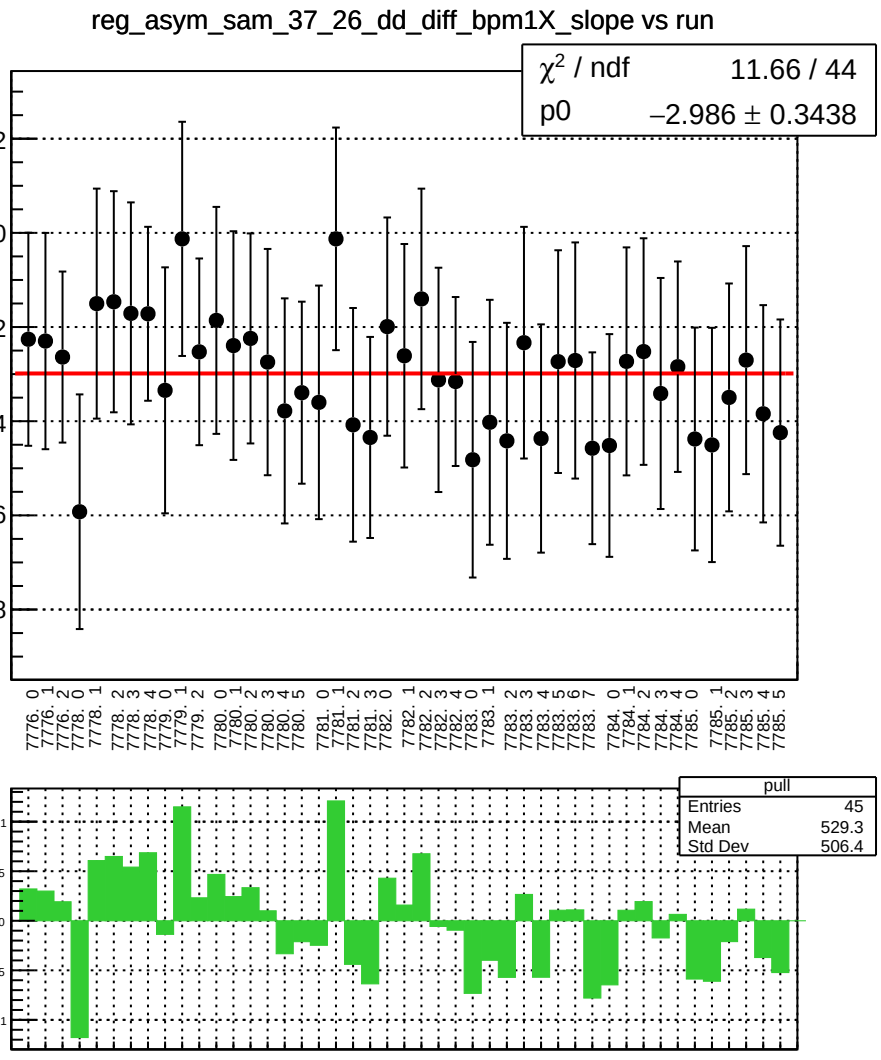

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6382 / 44
p0 26.09 ± 2.059
pull
Entries 45
Mean 215.8
Std Dev 183
pull1D
Entries 45
Mean −0.0005895
Std Dev 0.1191

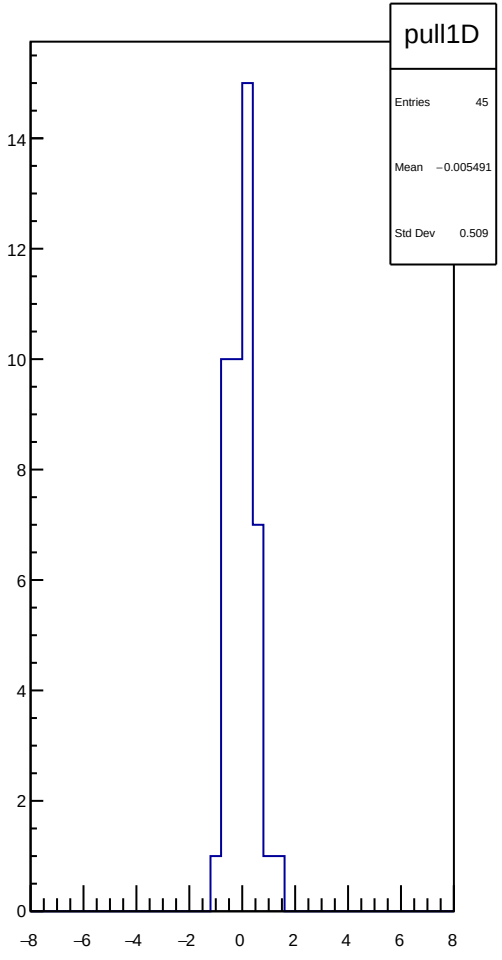

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.403 / 44
p0 16.72 ± 1.756
pull
Entries 45
Mean 1119
Std Dev 1101

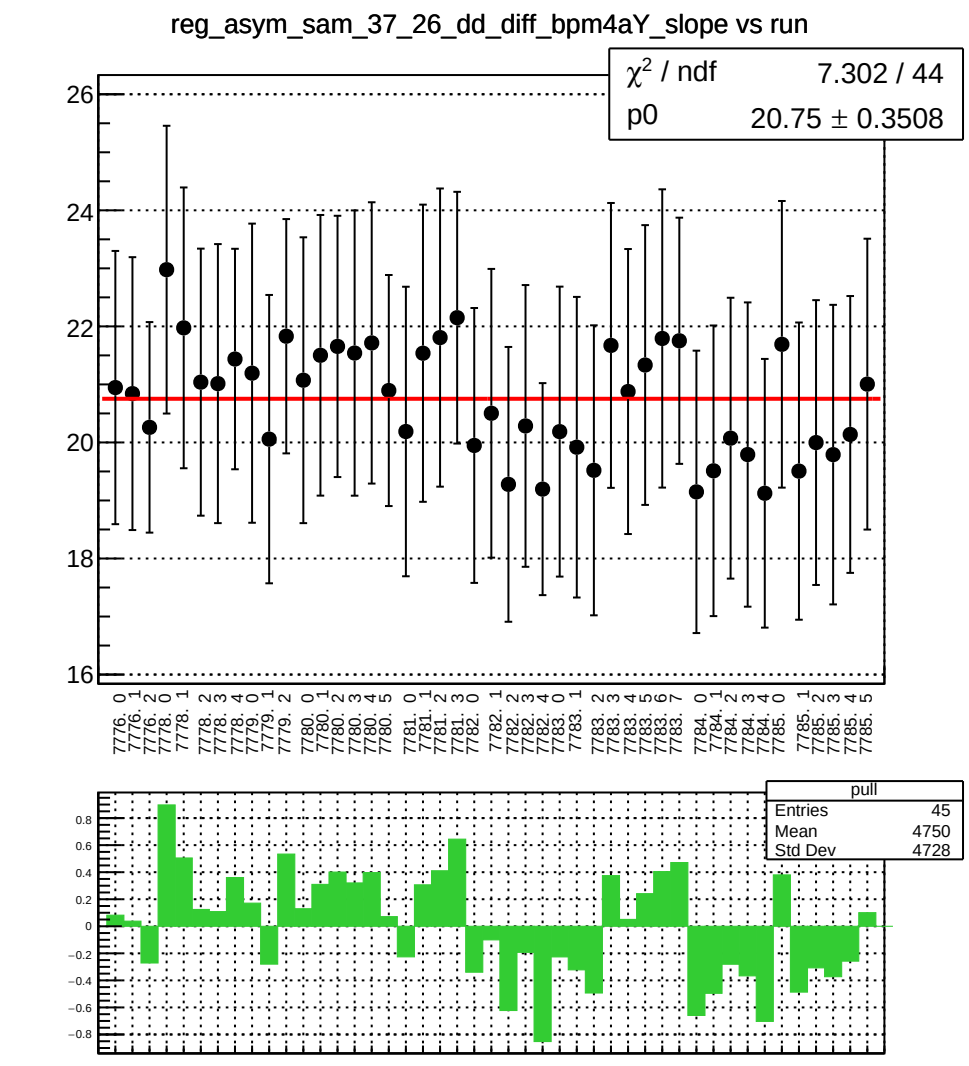

pull1D
Entries 45
Mean −0.0002661
Std Dev 0.1766

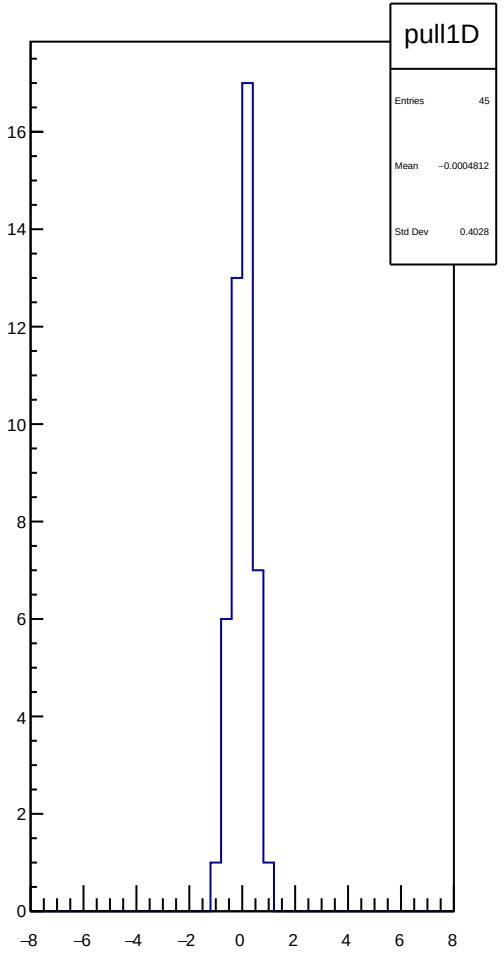

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6439 / 44
p0 15.31 ± 2.325
pull
Entries 45
Mean −77.42
Std Dev 91.11
pull1D
Entries 45
Mean 0.001834
Std Dev 0.1196

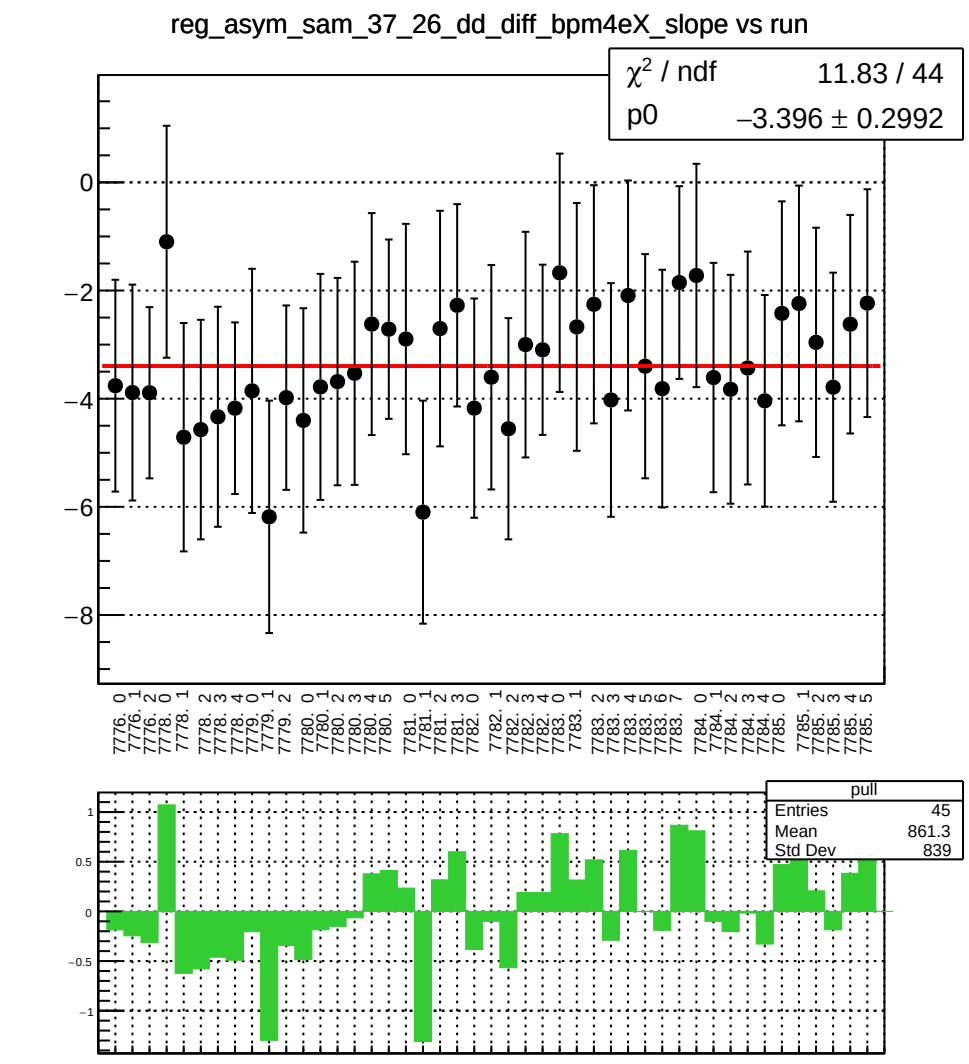

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.4 / 44
p0 −0.1263 ± 0.07332
pull
Entries 45
Mean −252.8
Std Dev 272.9
pull1D
Entries 45
Mean 0.002566
Std Dev 0.1764

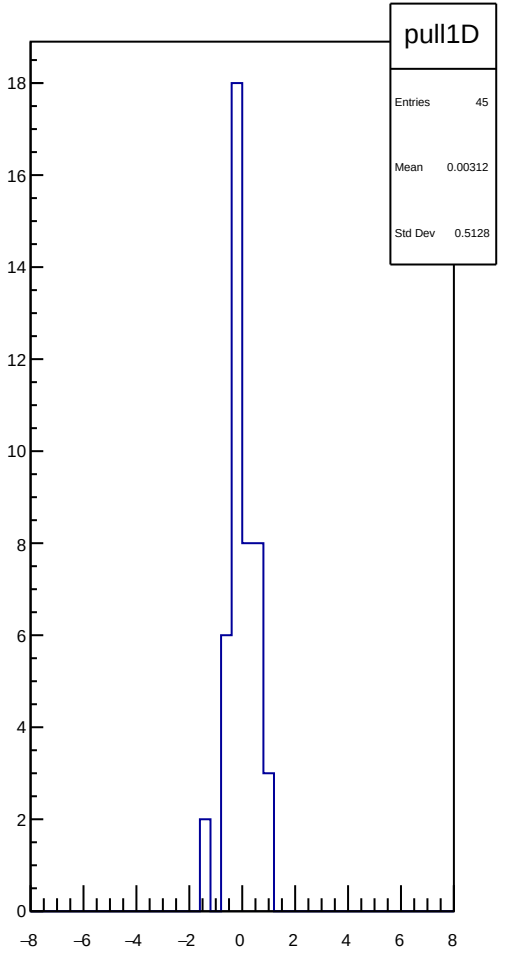

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 11.66 / 44
p0 −2.986 ± 0.3438
pull
Entries 45
Mean 529.3
Std Dev 506.4

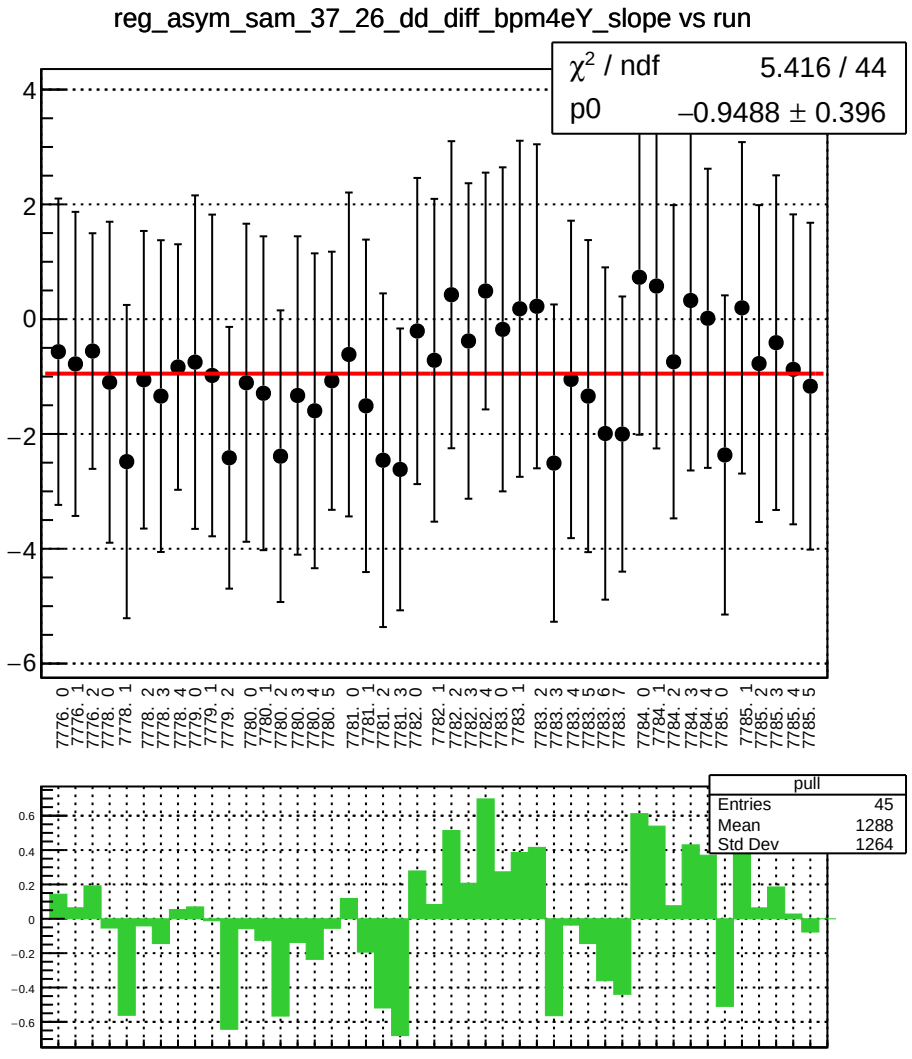

pull1D
Entries 45
Mean −0.005491
Std Dev 0.509

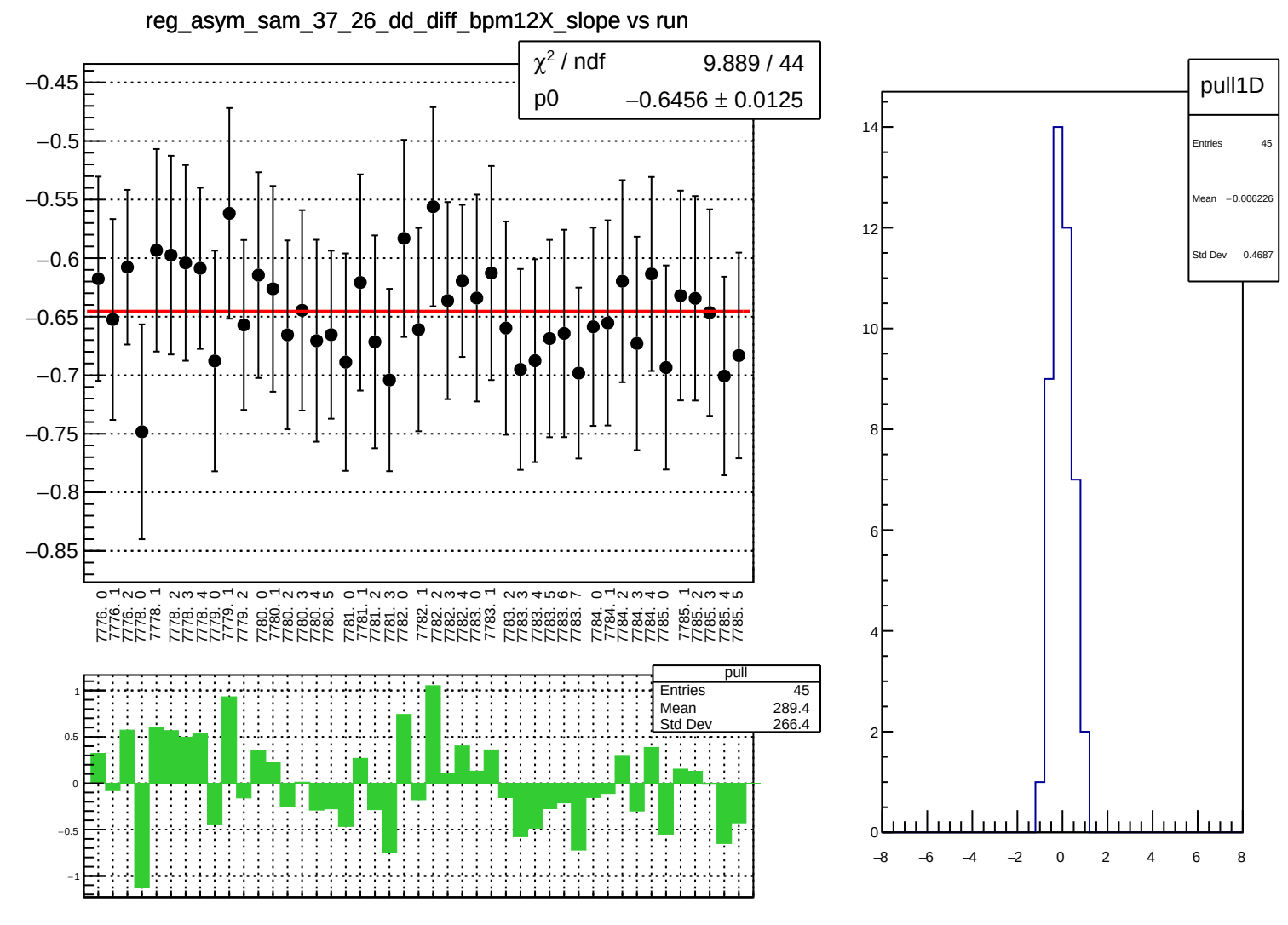

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.302 / 44
p0 20.75 ± 0.3508
pull
Entries 45
Mean 4750
Std Dev 4728

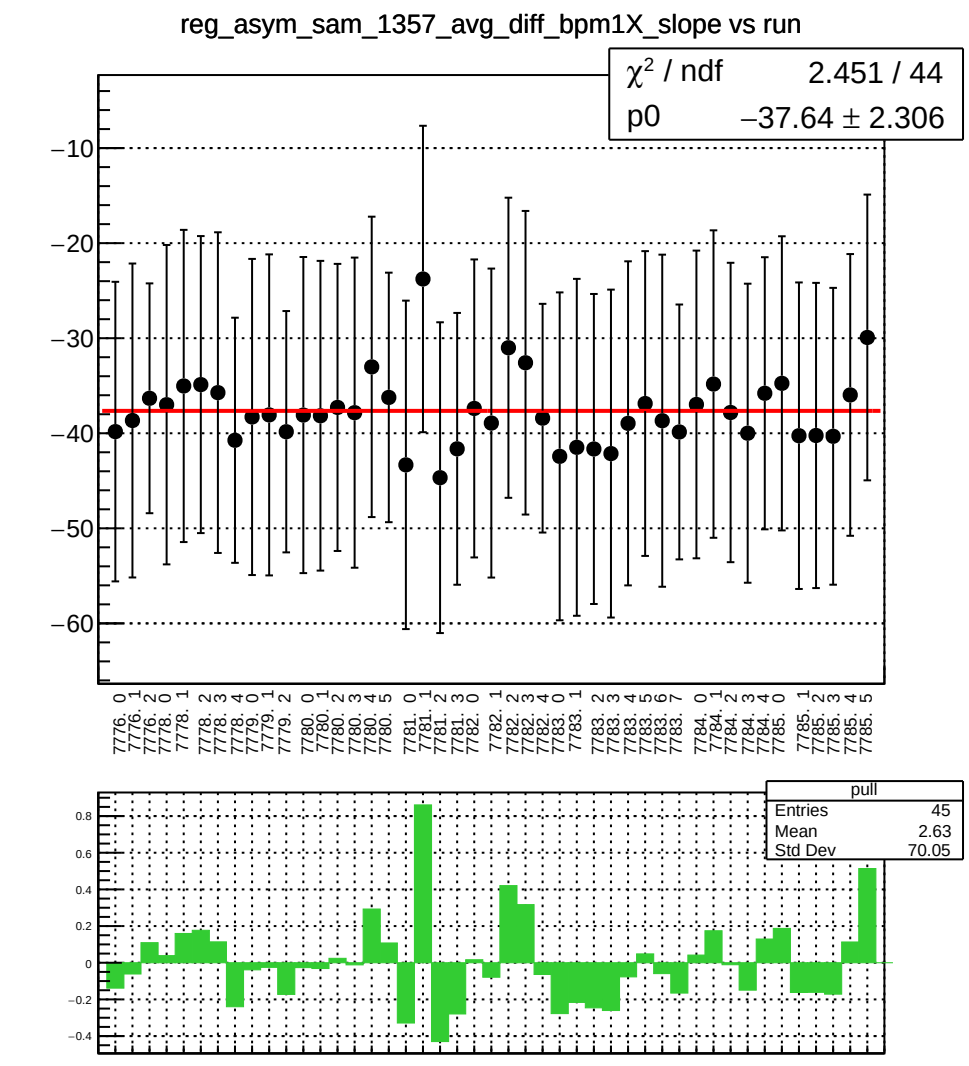

pull1D
Entries 45
Mean −0.0004812
Std Dev 0.4028

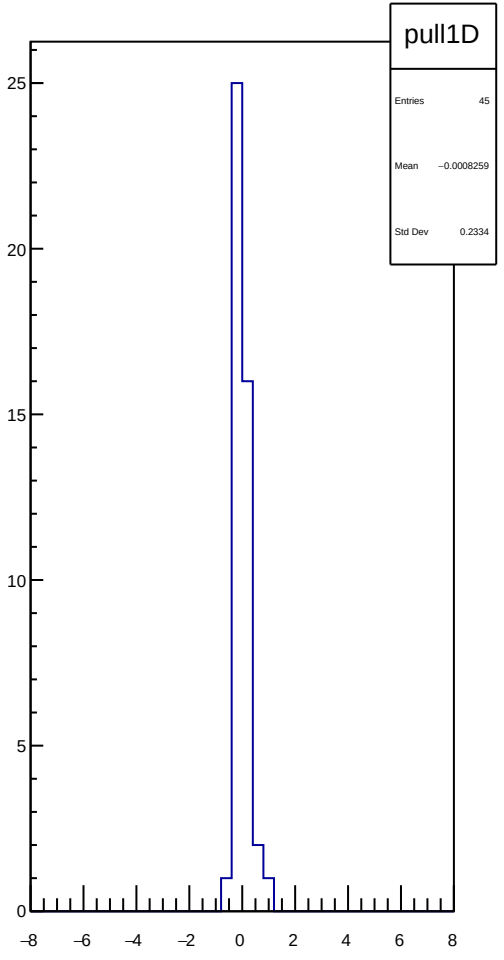

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.83 / 44
p0 −3.396 ± 0.2992
pull
Entries 45
Mean 861.3
Std Dev 839

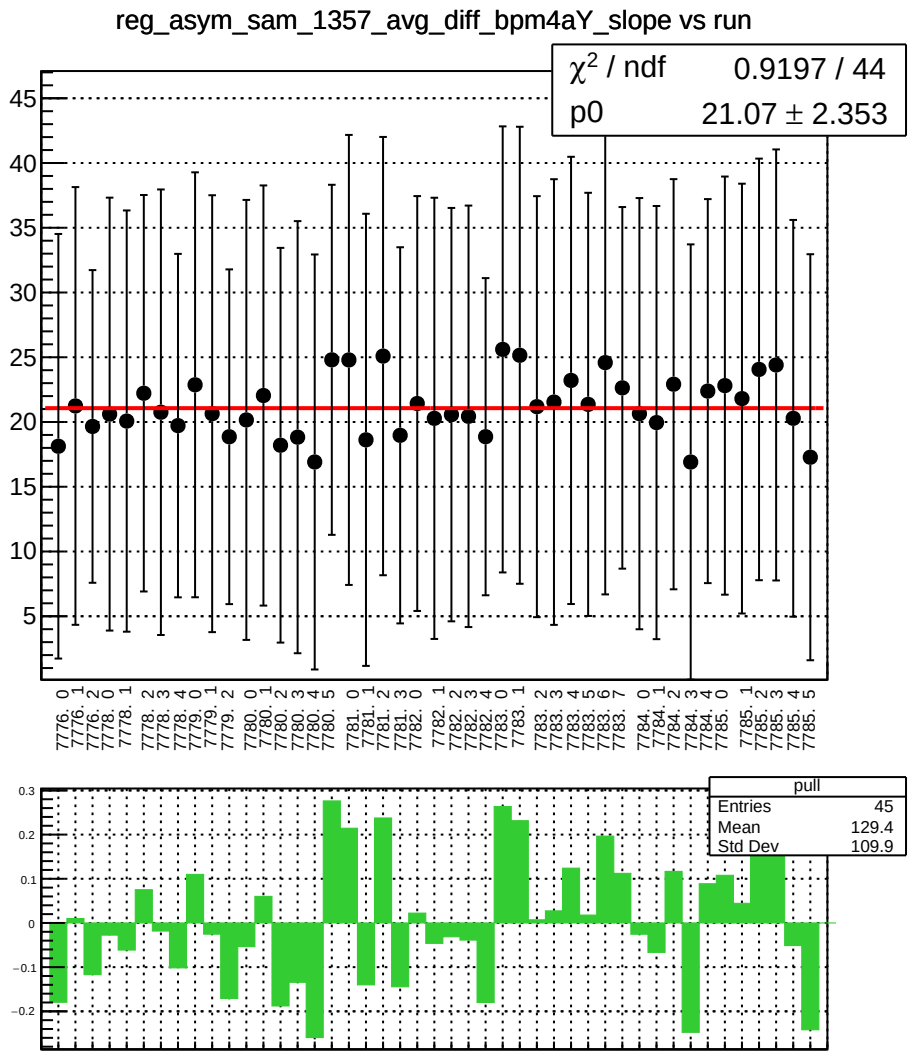

pull1D
Entries 45
Mean 0.00312
Std Dev 0.5128

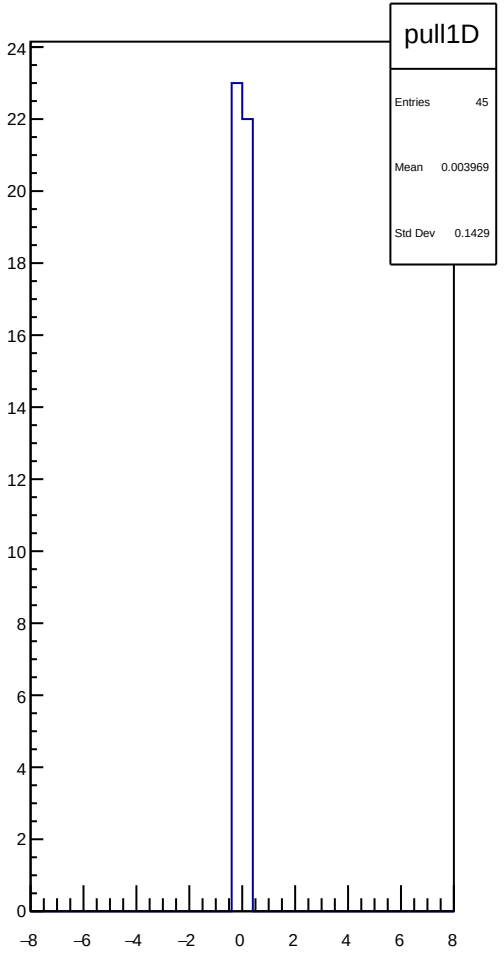

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.416 / 44
p0 −0.9488 ± 0.396
pull
Entries 45
Mean 1288
Std Dev 1264
pull1D
Entries 45
Mean 0.0008678
Std Dev 0.3469

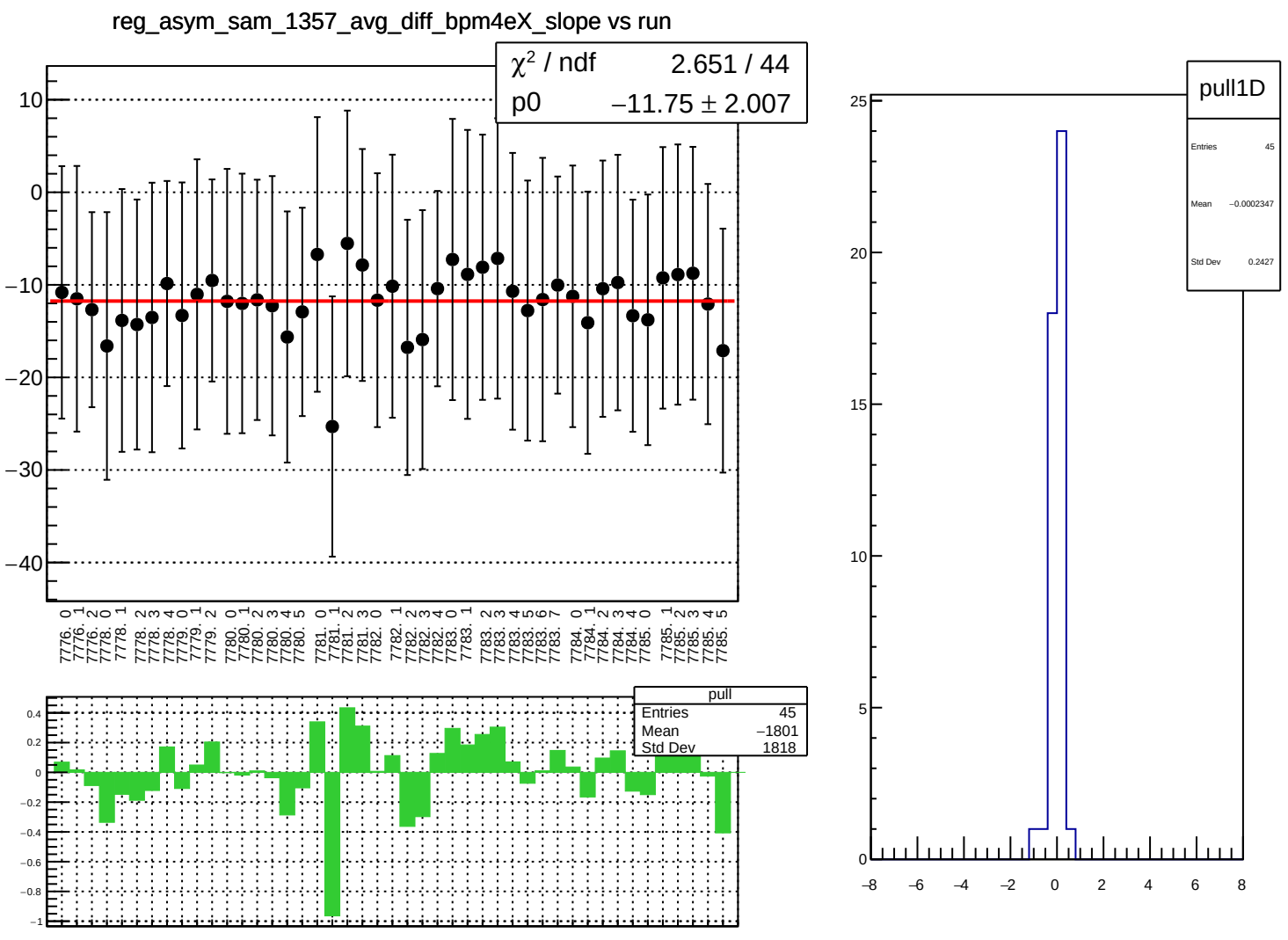

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.889 / 44
p0 −0.6456 ± 0.0125
pull
Entries 45
Mean 289.4
Std Dev 266.4
pull1D
Entries 45
Mean −0.006226
Std Dev 0.4687

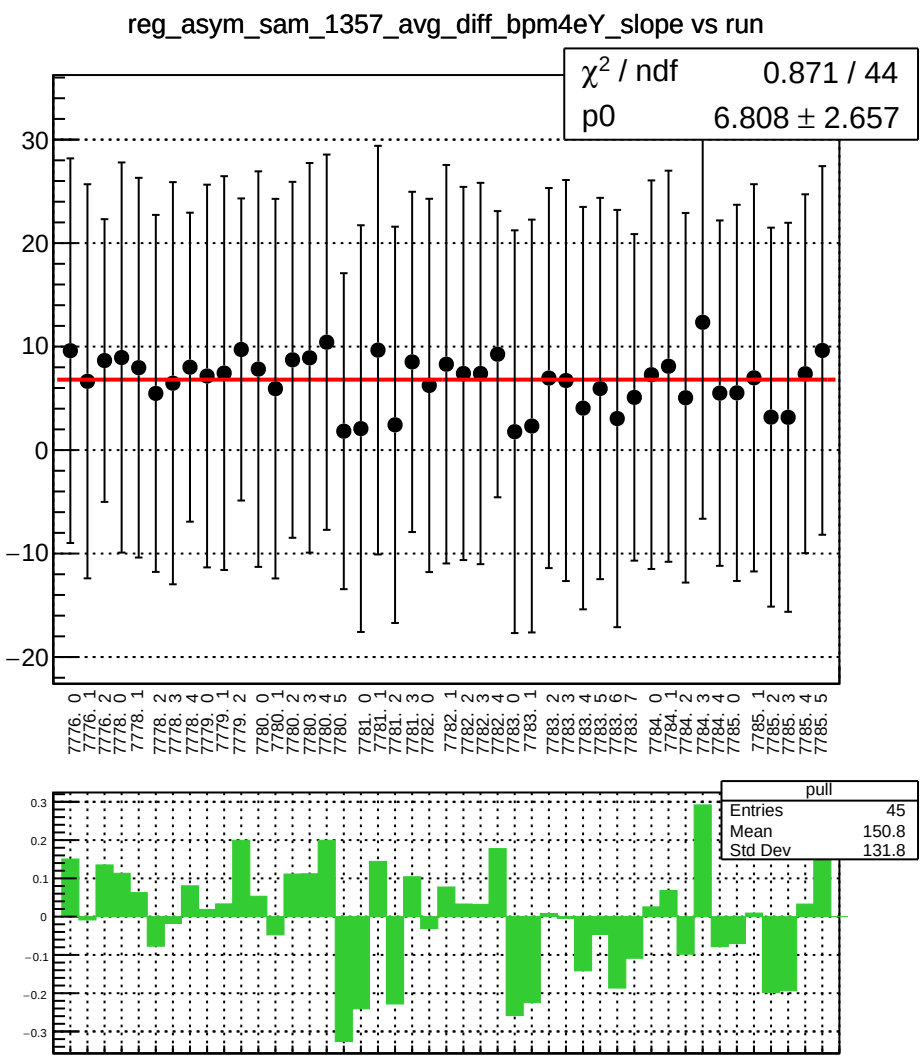

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 2.451 / 44
p0 −37.64 ± 2.306
pull
Entries 45
Mean 2.63
Std Dev 70.05

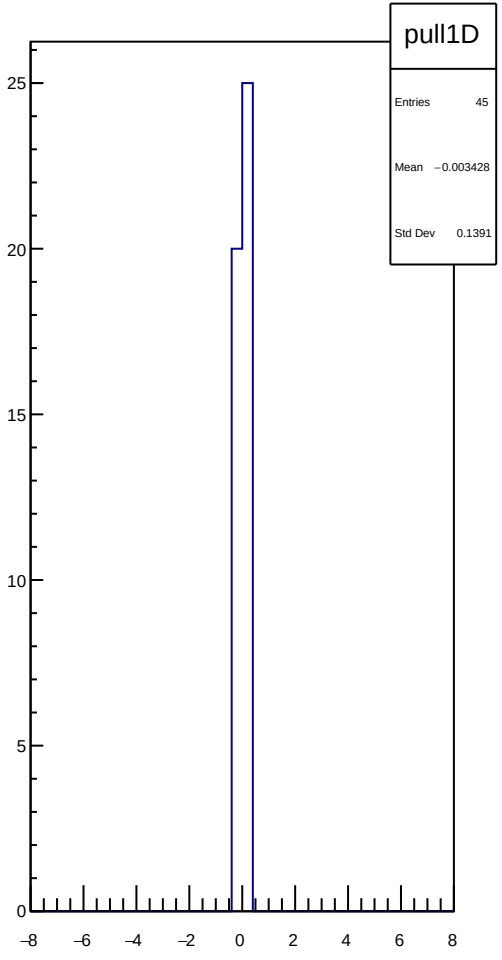

pull1D
Entries 45
Mean −0.0008259
Std Dev 0.2334

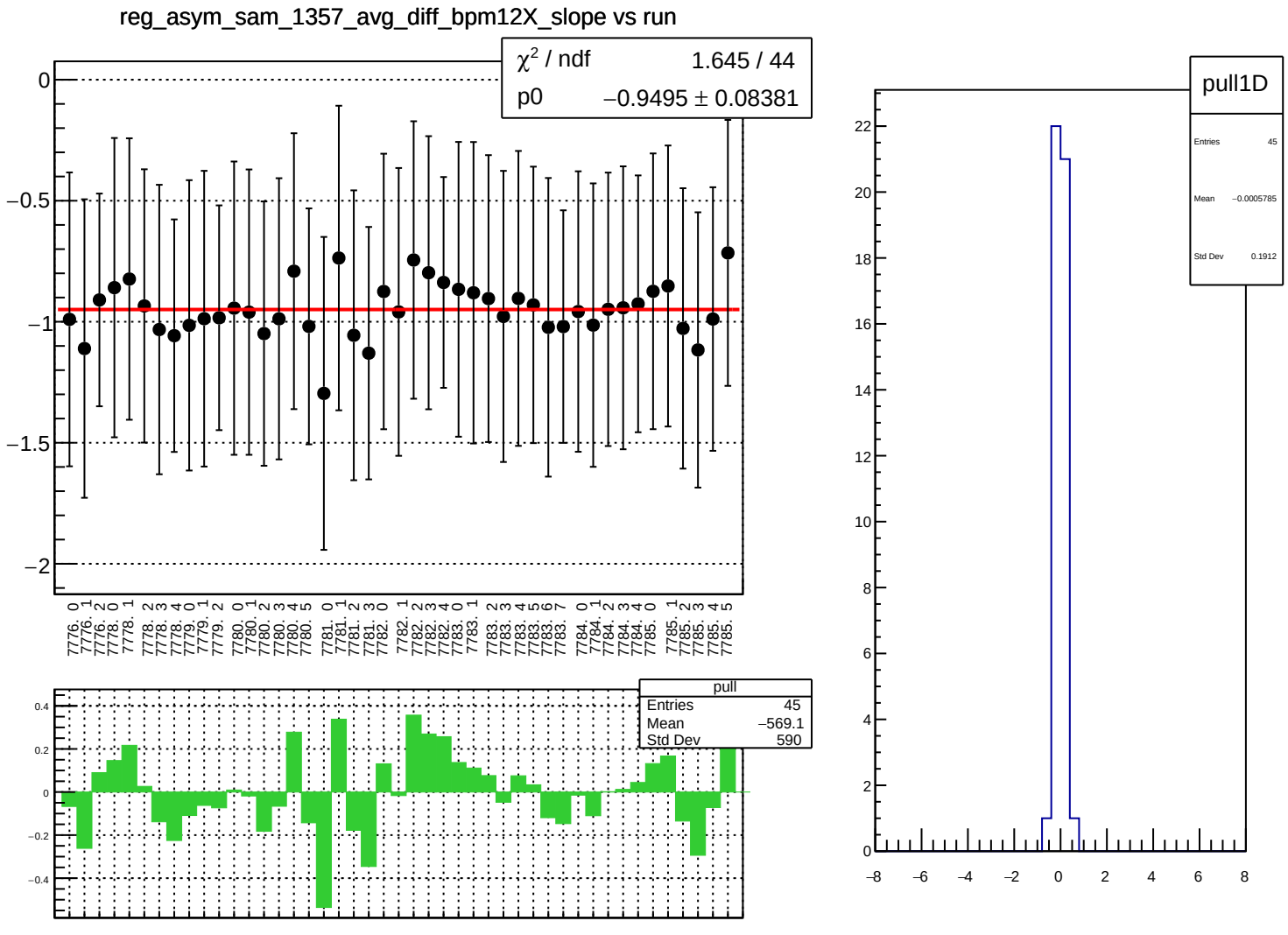

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.9197 / 44
p0 21.07 ± 2.353
pull
Entries 45
Mean 129.4
Std Dev 109.9

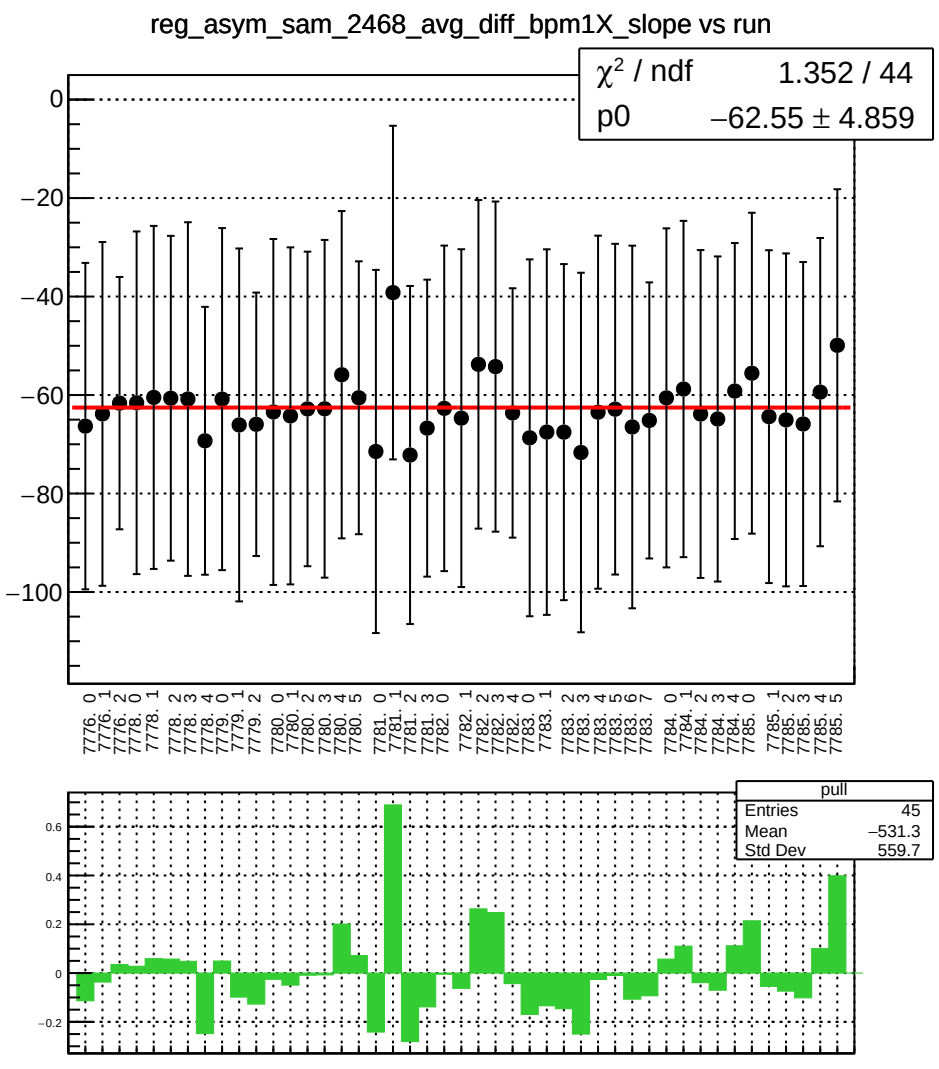

pull1D
Entries 45
Mean 0.003969
Std Dev 0.1429

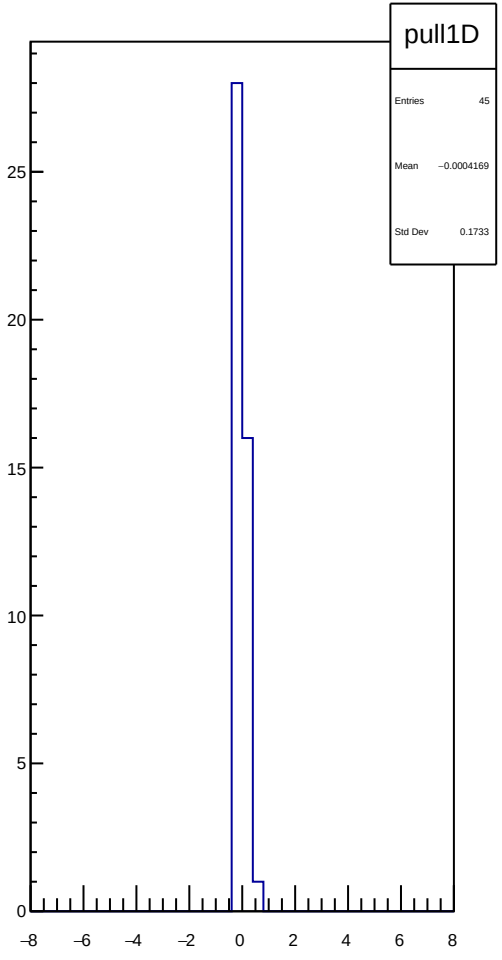

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.651 / 44
p0 −11.75 ± 2.007
pull
Entries 45
Mean −1801
Std Dev 1818
pull1D
Entries 45
Mean −0.0002347
Std Dev 0.2427

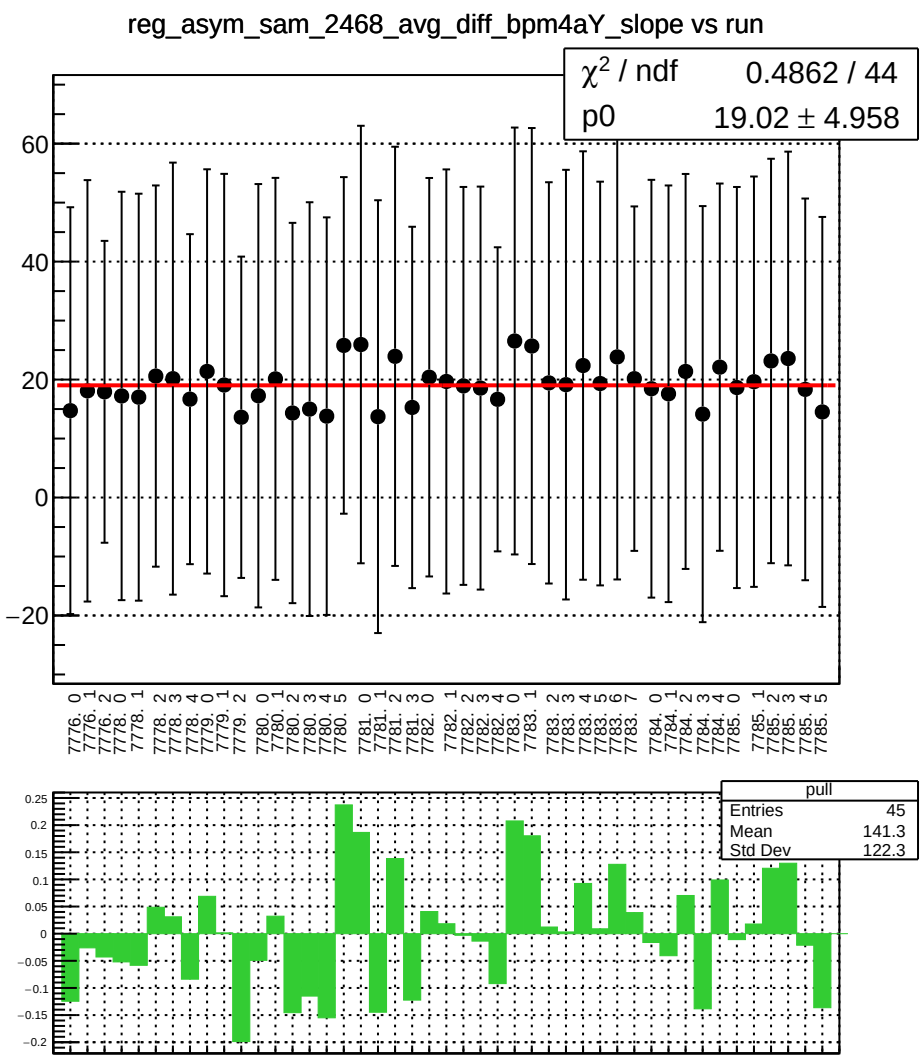

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.871 / 44
p0 6.808 ± 2.657
pull
Entries 45
Mean 150.8
Std Dev 131.8

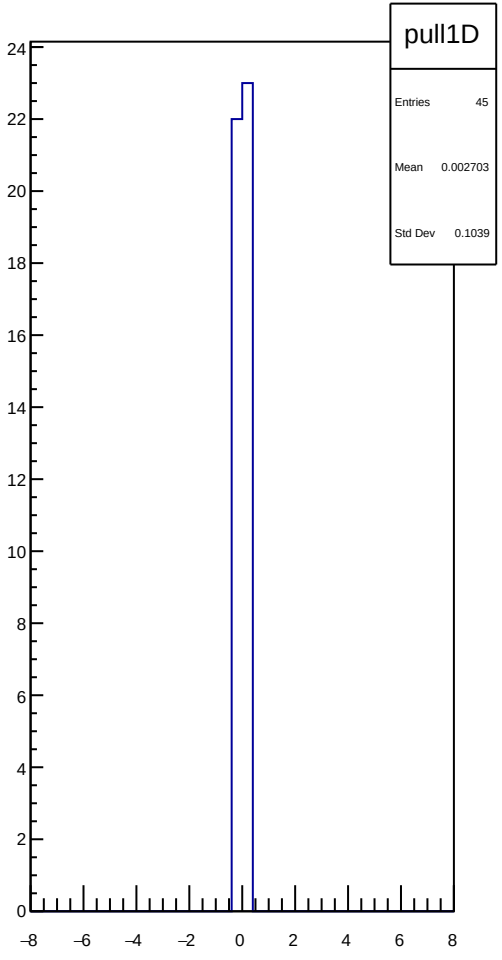

pull1D
Entries 45
Mean −0.003428
Std Dev 0.1391

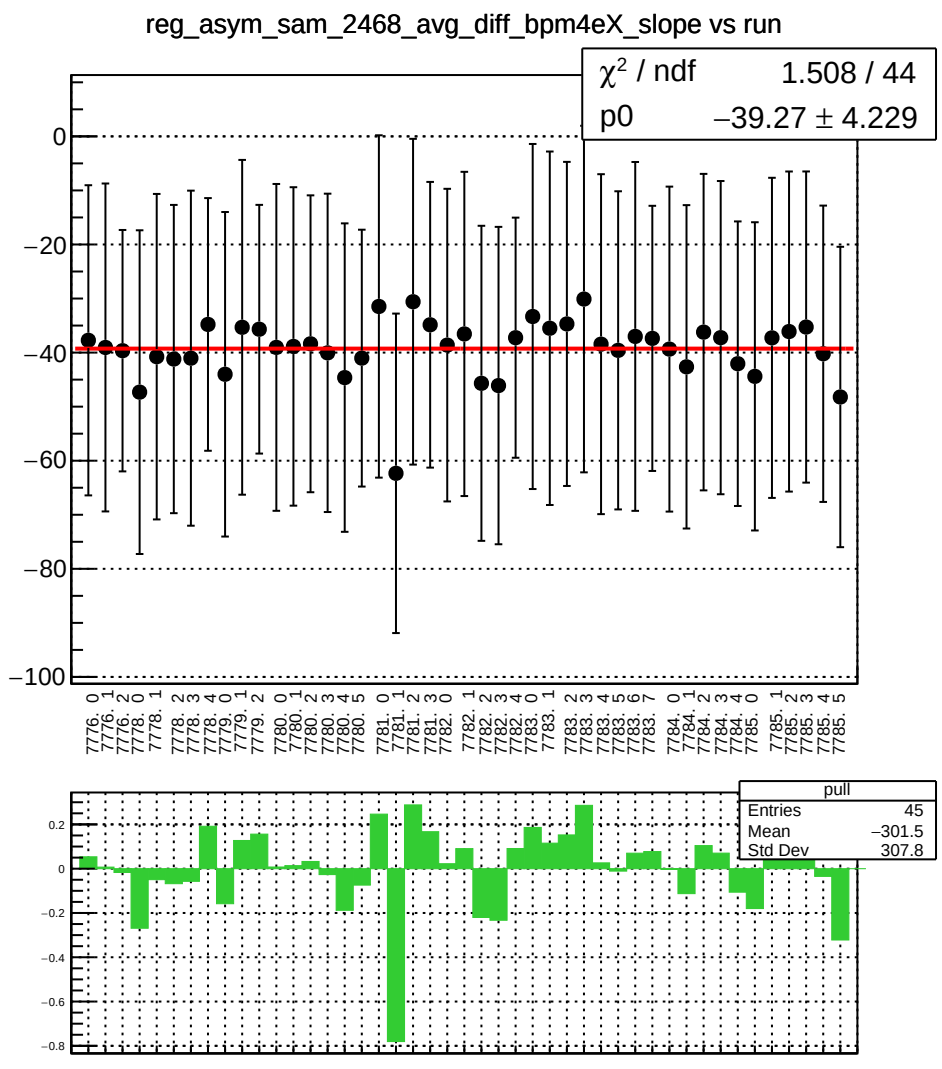

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 1.645 / 44
p0 −0.9495 ± 0.08381
0
−0.5
−1
−1.5
−2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −569.1
Std Dev 590
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.0005785
Std Dev 0.1912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

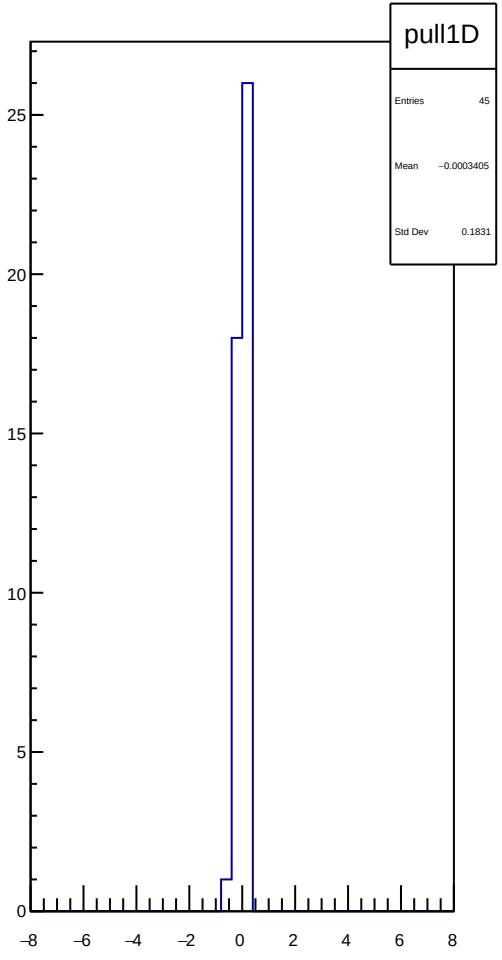

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1.352 / 44
p0 −62.55 ± 4.859
0
−20
−40
−60
−80
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −531.3
Std Dev 559.7
0.6
0.4
0.2
0
−0.2

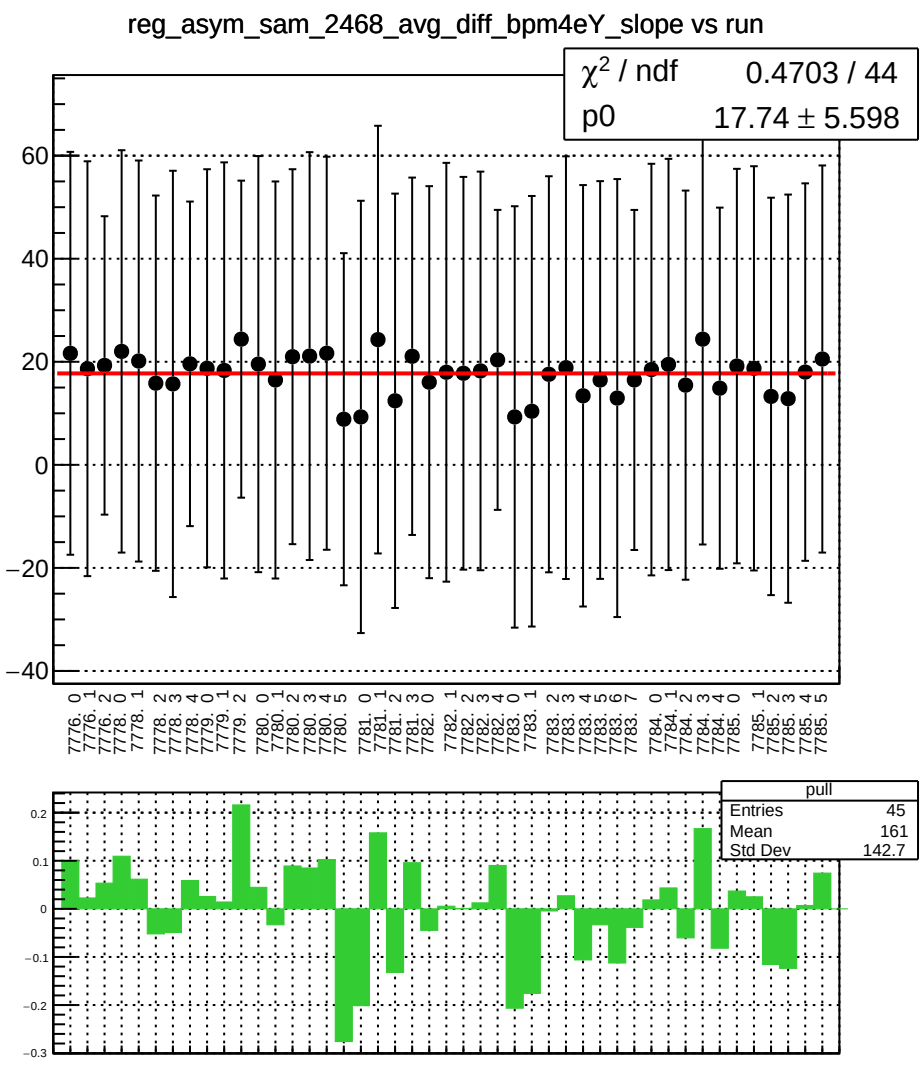

pull1D
Entries 45
Mean −0.0004169
Std Dev 0.1733
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

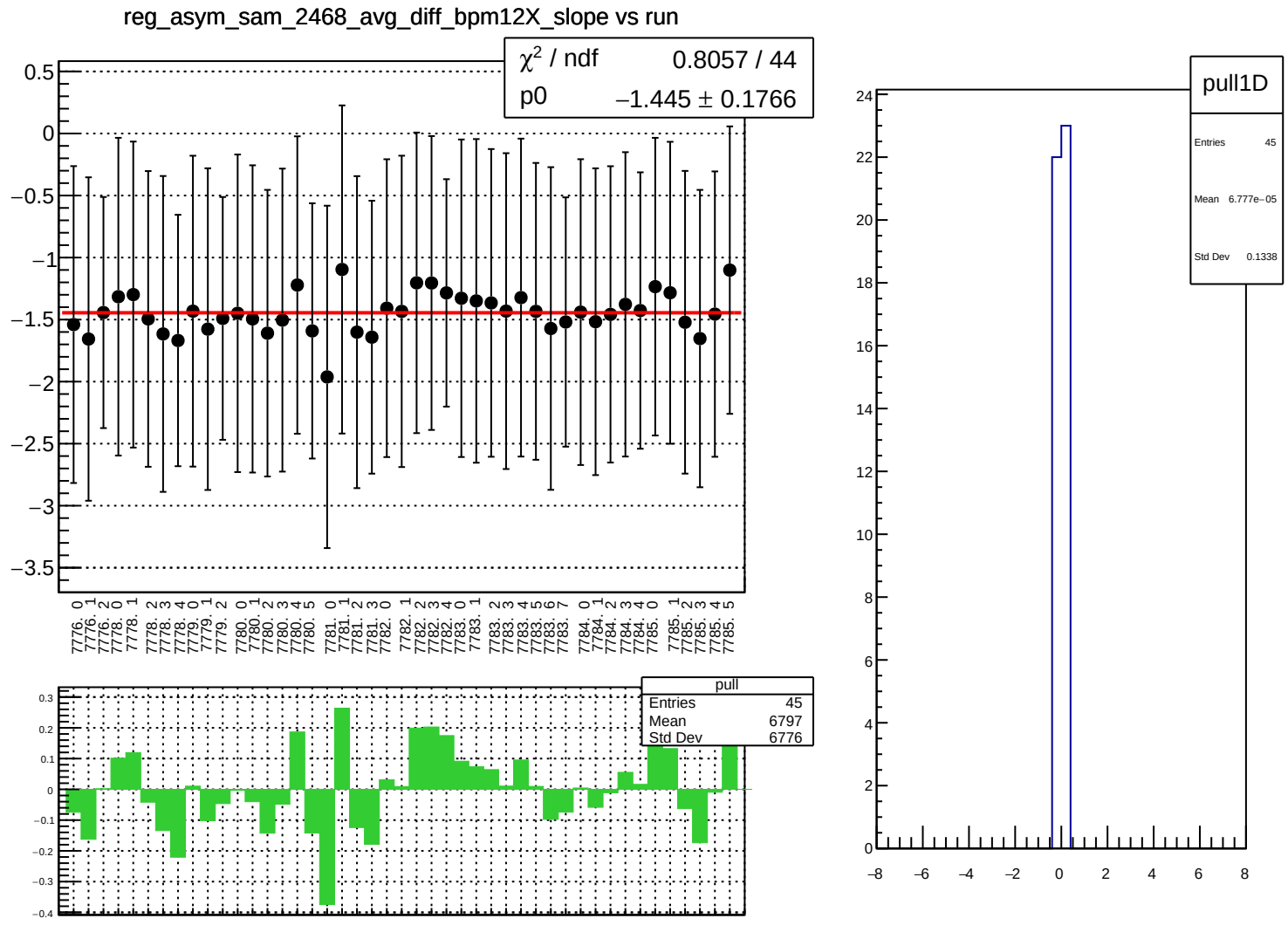

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.4862 / 44
p0 19.02 ± 4.958
pull
Entries 45
Mean 141.3
Std Dev 122.3

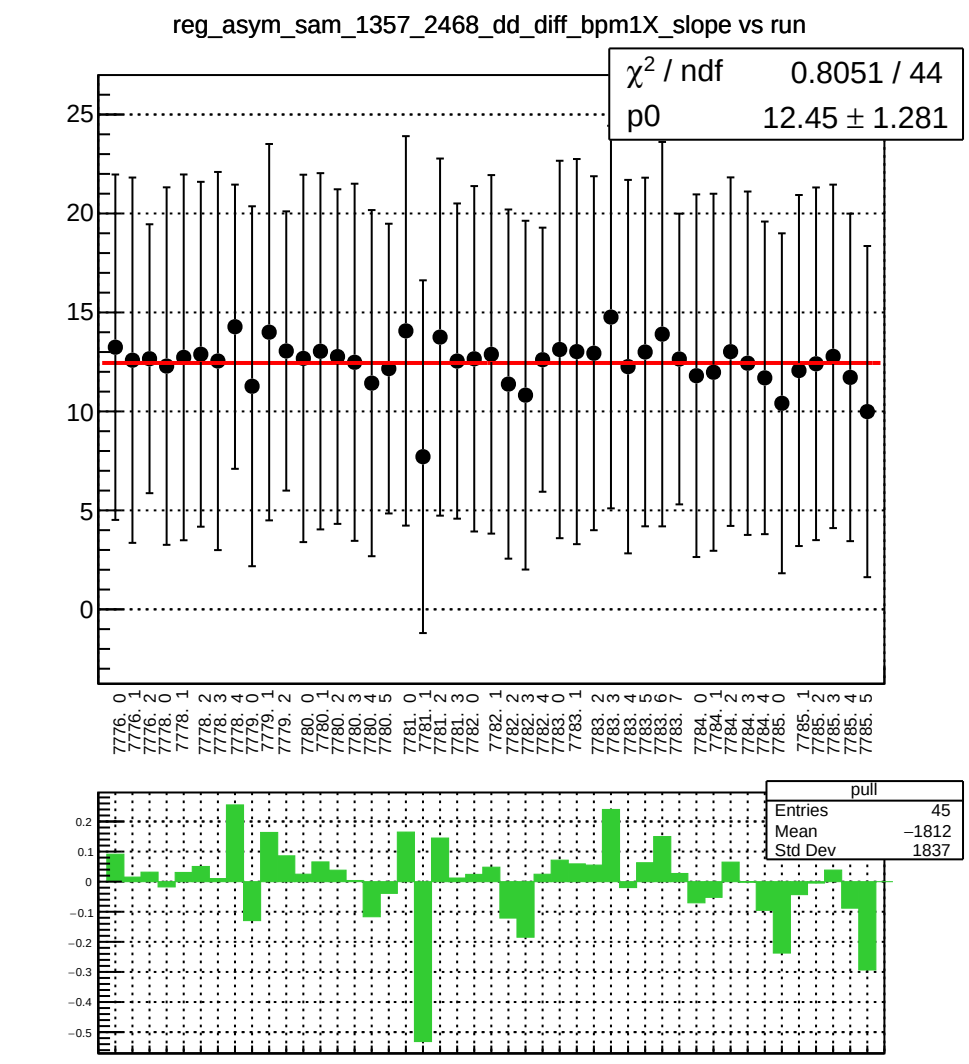

pull1D
Entries 45
Mean 0.002703
Std Dev 0.1039

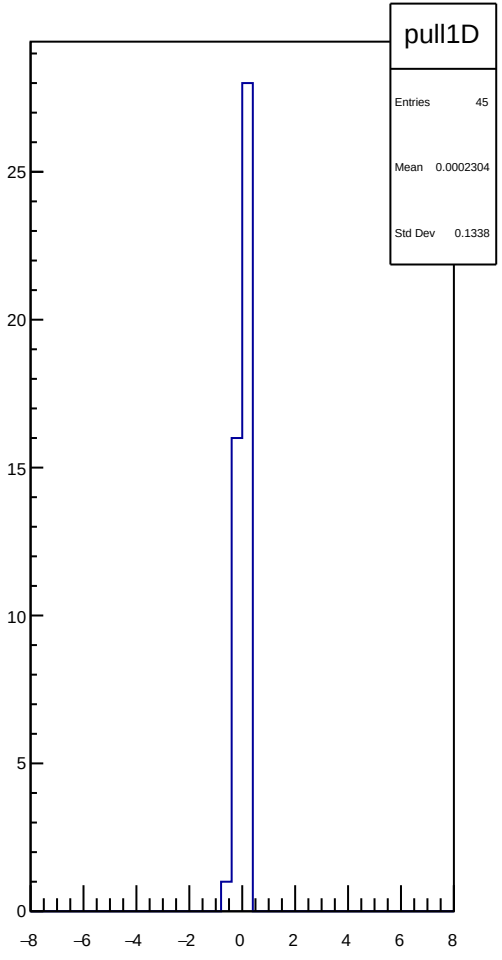

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.508 / 44
p0 −39.27 ± 4.229
pull
Entries 45
Mean −301.5
Std Dev 307.8

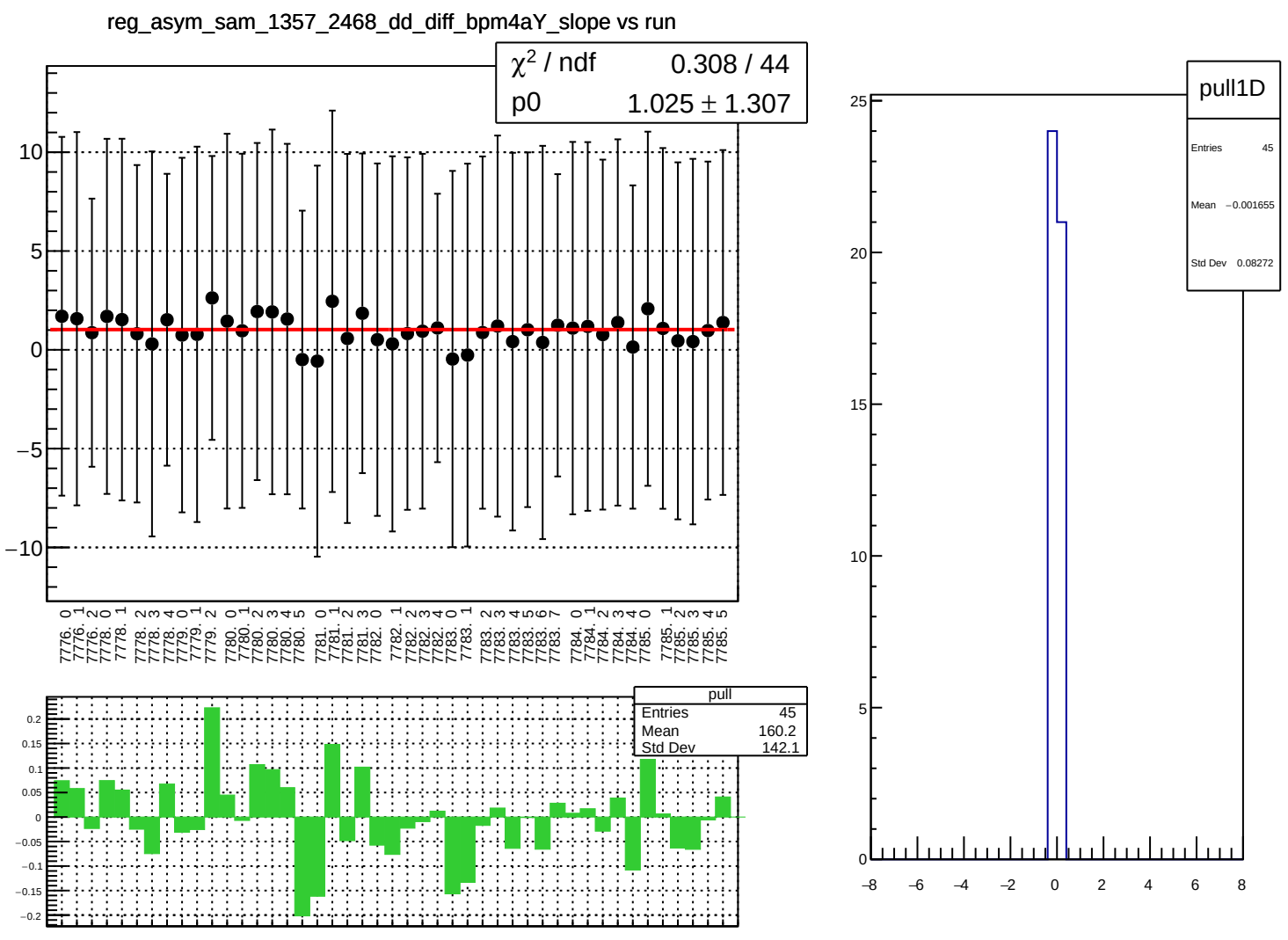

pull1D
Entries 45
Mean −0.0003405
Std Dev 0.1831

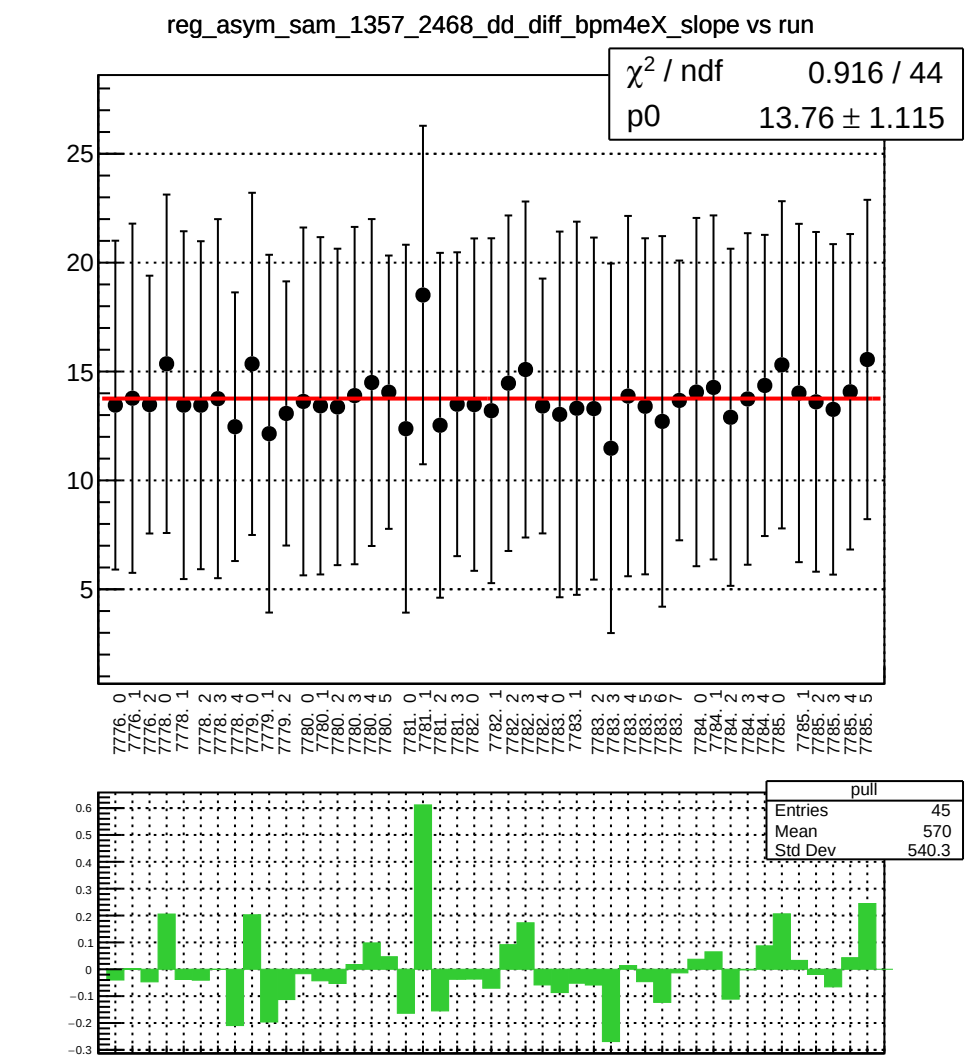

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.4703 / 44
p0 17.74 ± 5.598
60
40
20
0
−20
−40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 161
Std Dev 142.7
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 45
Mean −0.002243
Std Dev 0.1022
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

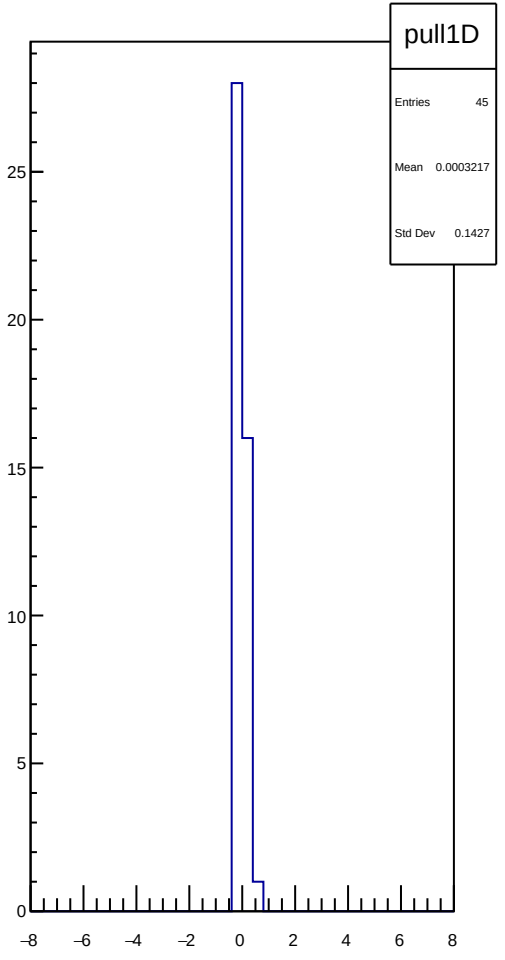

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 0.8057 / 44
p0 −1.445 ± 0.1766
pull
Entries 45
Mean 6797
Std Dev 6776
pull1D
Entries 45
Mean 6.777e−05
Std Dev 0.1338

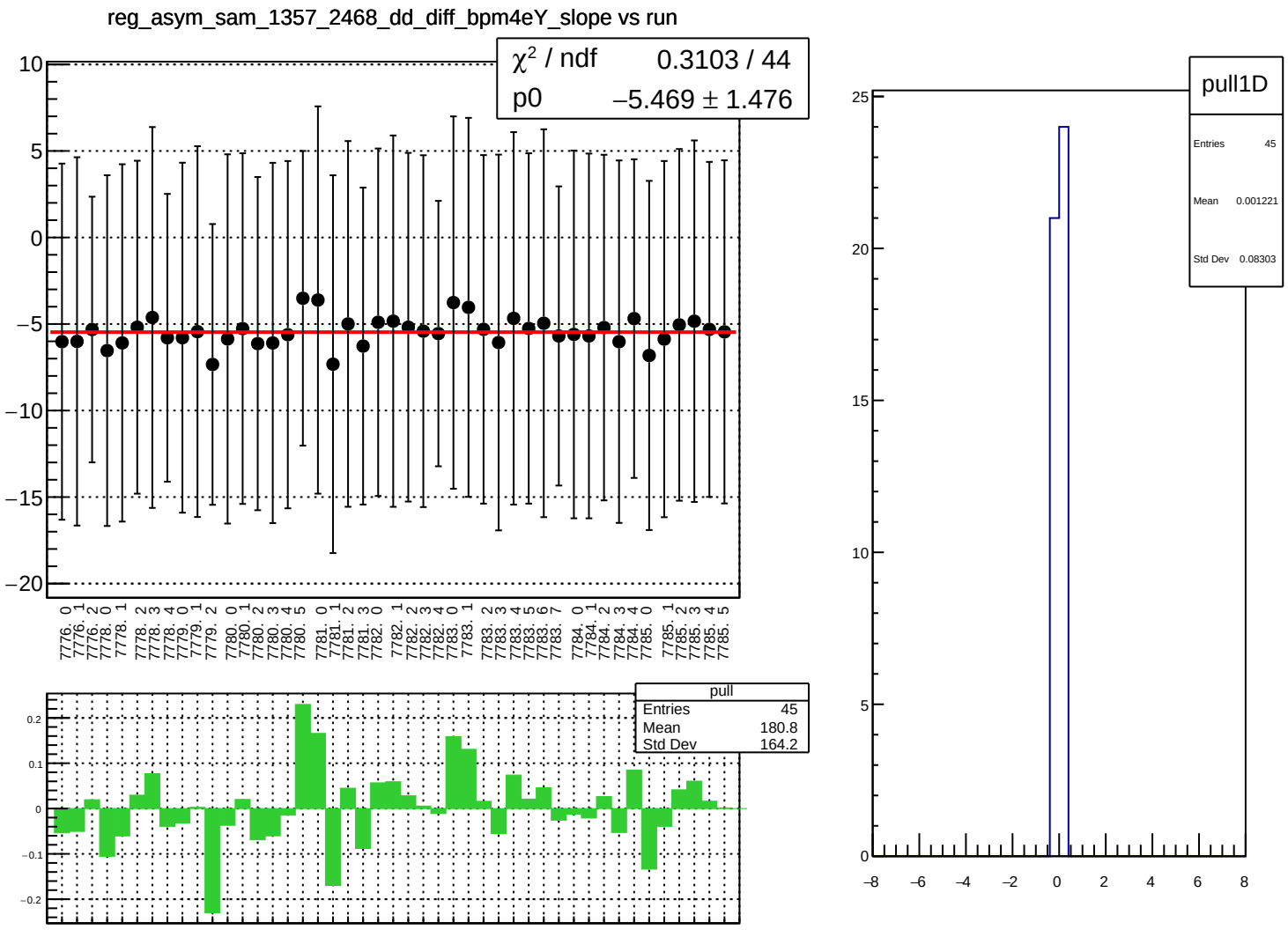

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 0.8051 / 44
p0 12.45 ± 1.281
pull
Entries 45
Mean −1812
Std Dev 1837

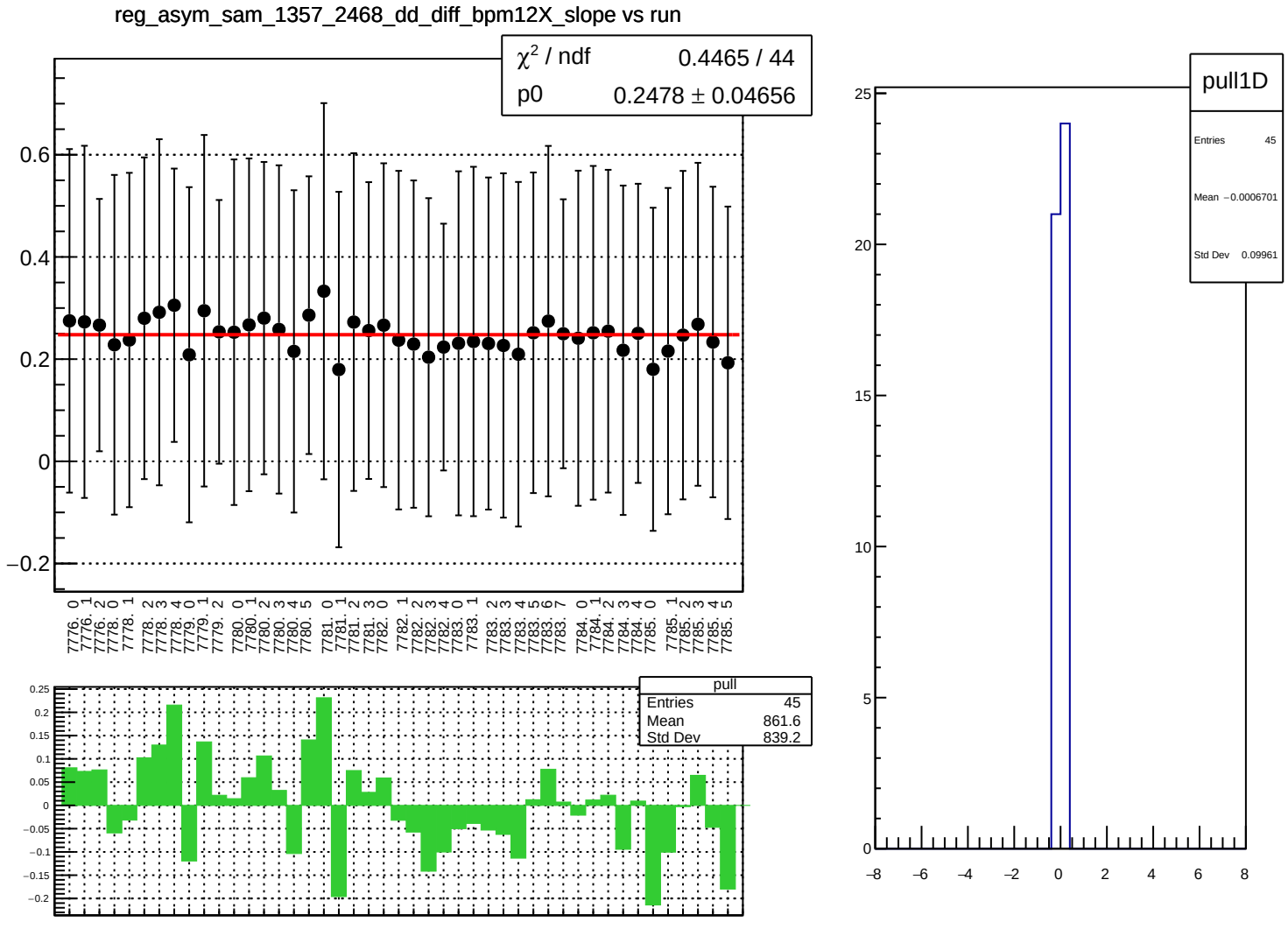

pull1D
Entries 45
Mean 0.0002304
Std Dev 0.1338

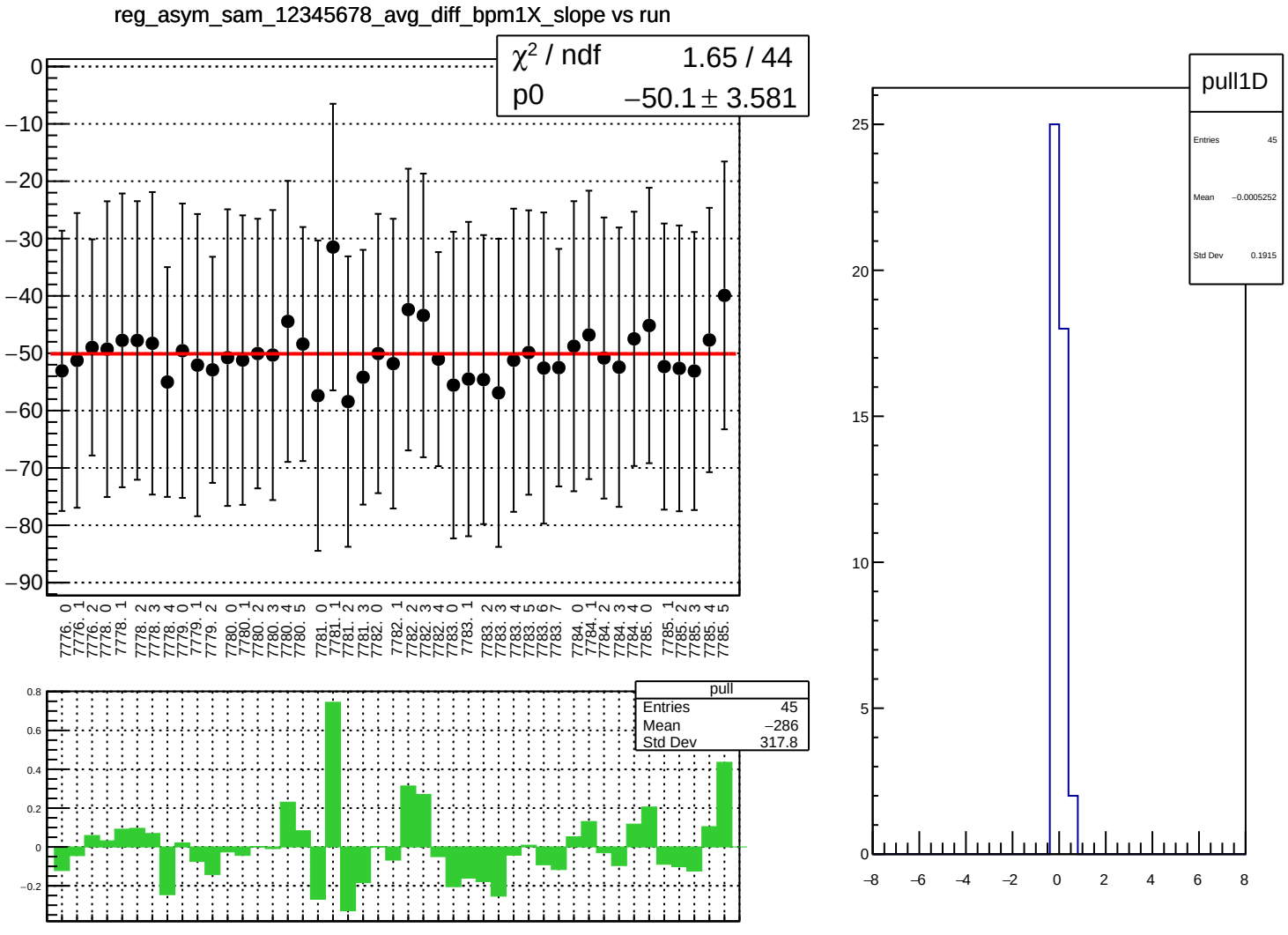

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.308 / 44
p0 1.025 ± 1.307
pull
Entries 45
Mean 160.2
Std Dev 142.1
pull1D
Entries 45
Mean −0.001655
Std Dev 0.08272

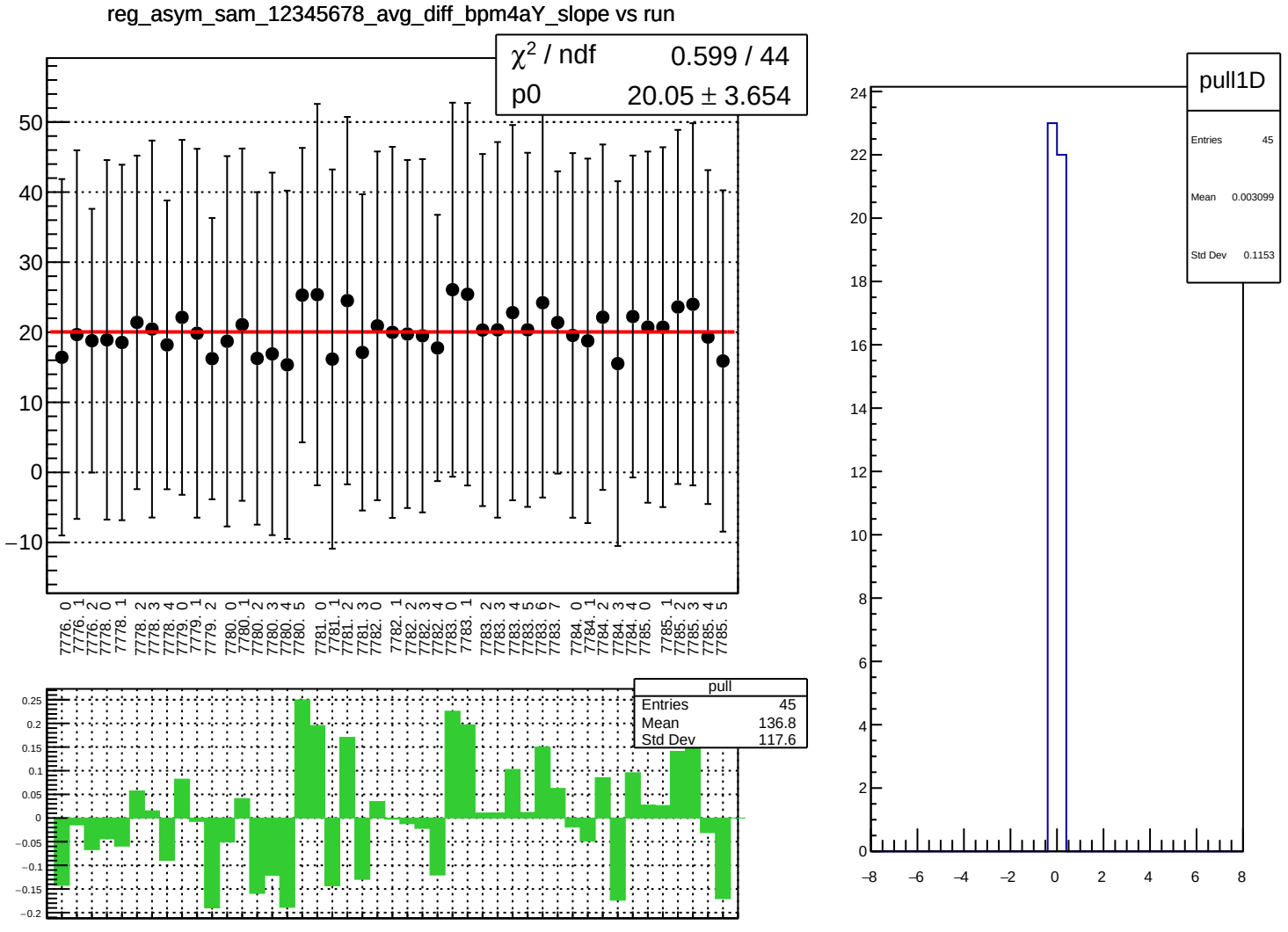

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.916 / 44
p0 13.76 ± 1.115
pull
Entries 45
Mean 570
Std Dev 540.3

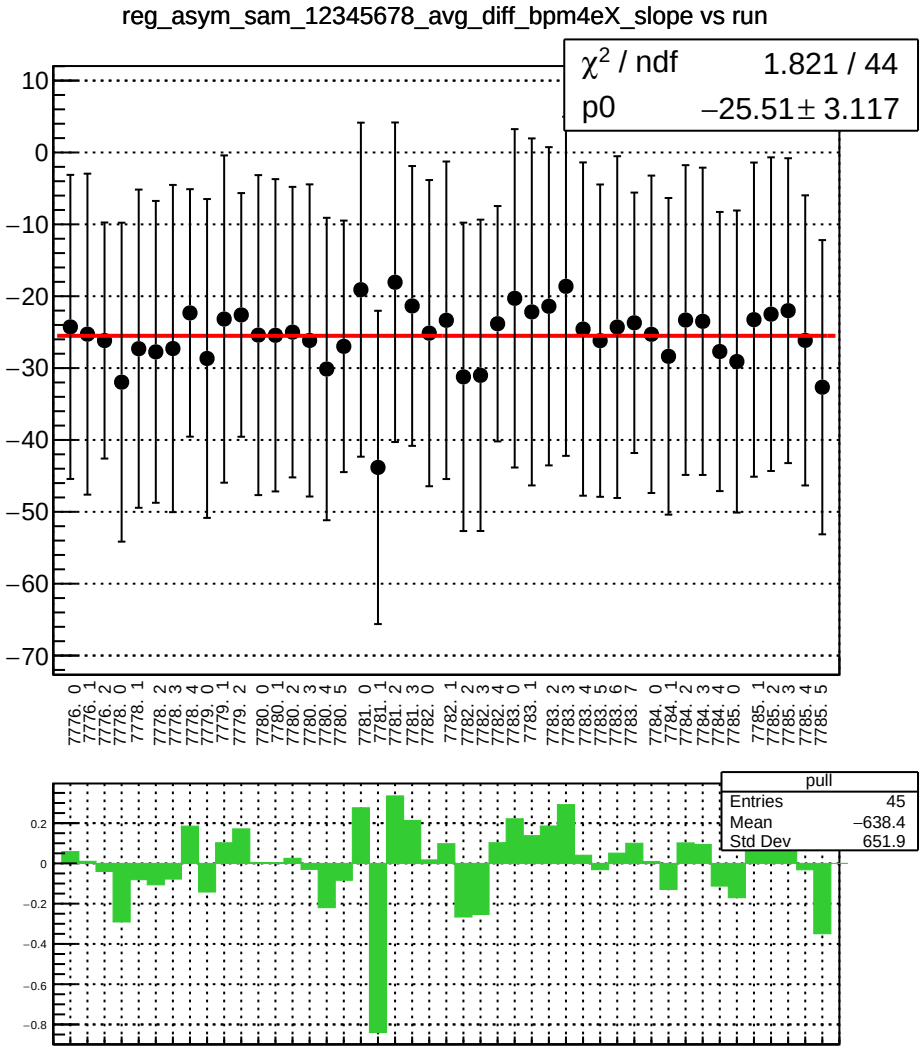

pull1D
Entries 45
Mean 0.0003217
Std Dev 0.1427

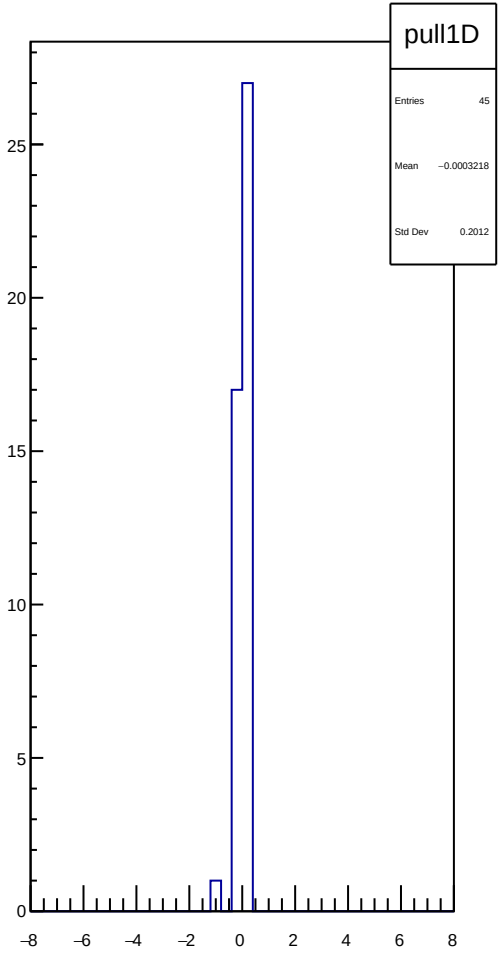

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3103 / 44
p0 −5.469 ± 1.476
pull
Entries 45
Mean 180.8
Std Dev 164.2
pull1D
Entries 45
Mean 0.001221
Std Dev 0.08303

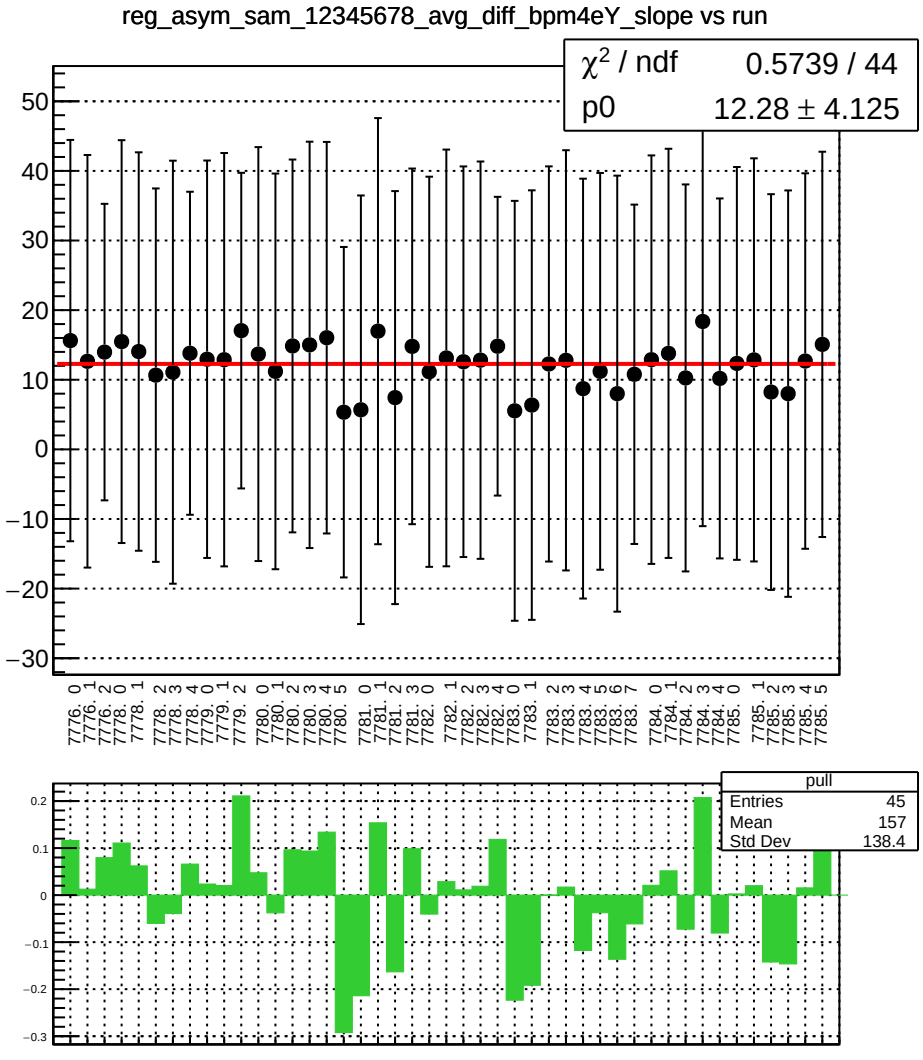

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 0.4465 / 44
p0 0.2478 ± 0.04656
0.6
0.4
0.2
0
−0.2
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 861.6
Std Dev 839.2
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull1D
Entries 45
Mean −0.0006701
Std Dev 0.09961
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

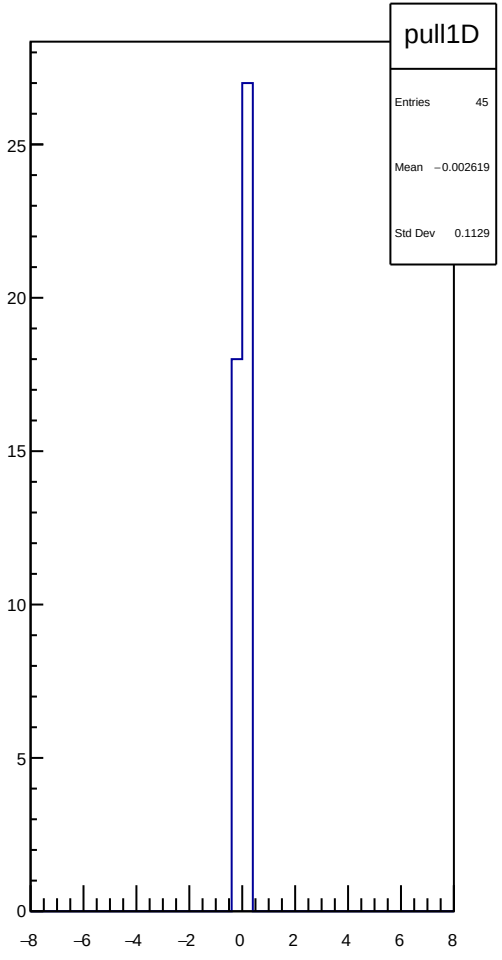

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1.65 / 44
p0 −50.1 ± 3.581
pull
Entries 45
Mean −286
Std Dev 317.8
pull1D
Entries 45
Mean −0.0005252
Std Dev 0.1915

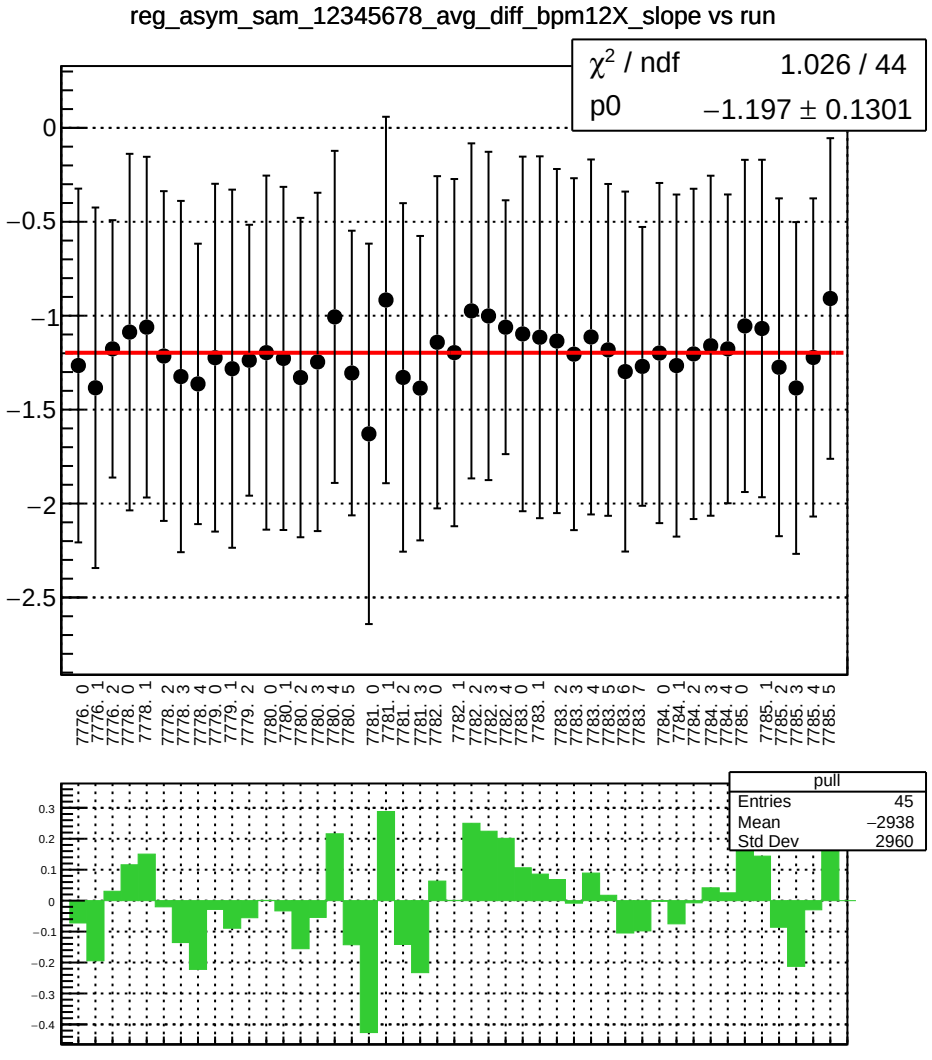

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.599 / 44
p0 20.05 ± 3.654
pull
Entries 45
Mean 136.8
Std Dev 117.6
pull1D
Entries 45
Mean 0.003099
Std Dev 0.1153

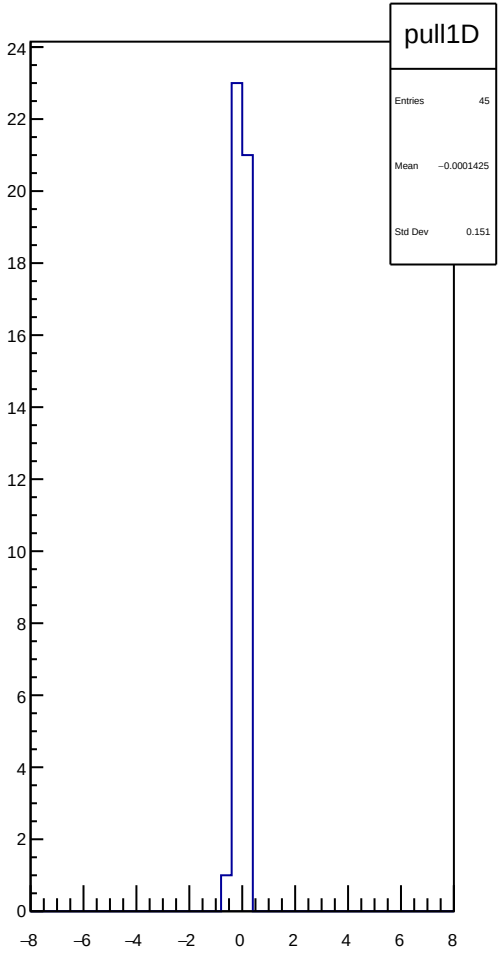

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.821 / 44
p0 −25.51 ± 3.117
pull
Entries 45
Mean −638.4
Std Dev 651.9

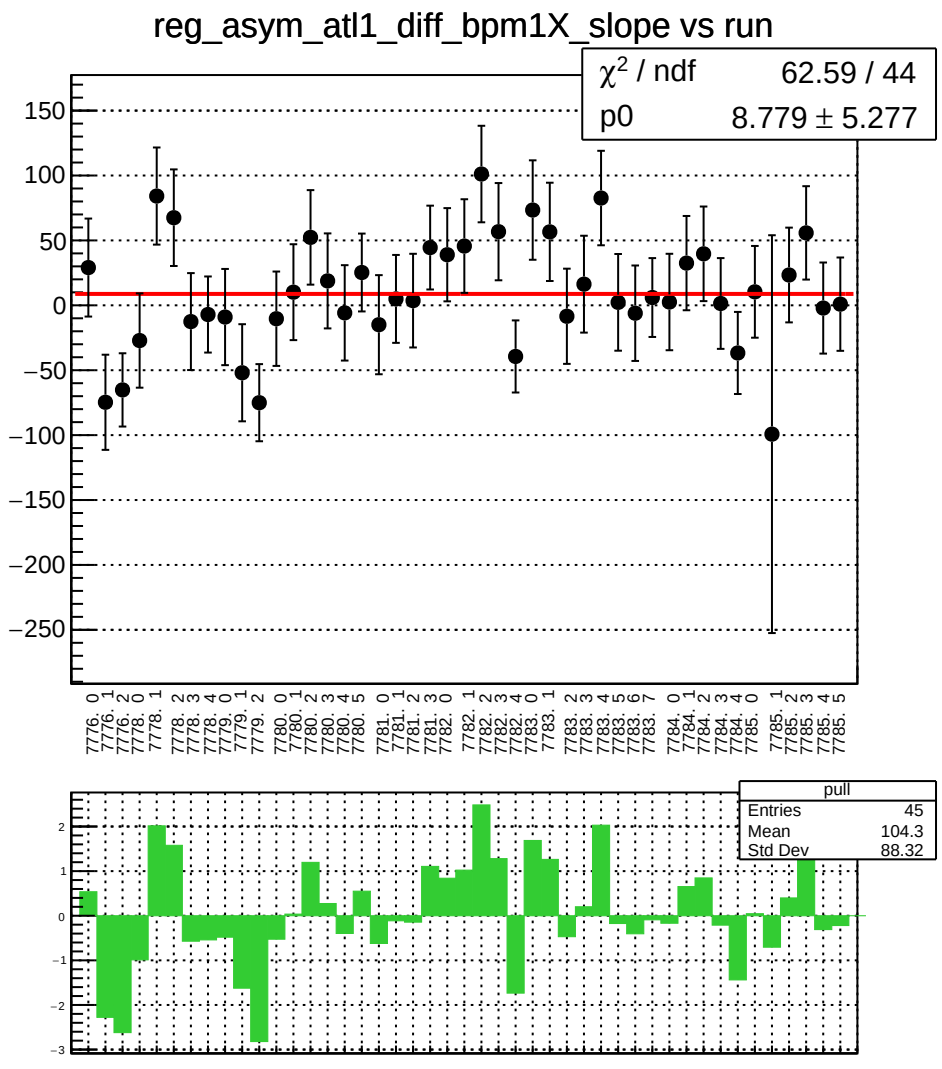

pull1D
Entries 45
Mean −0.0003218
Std Dev 0.2012

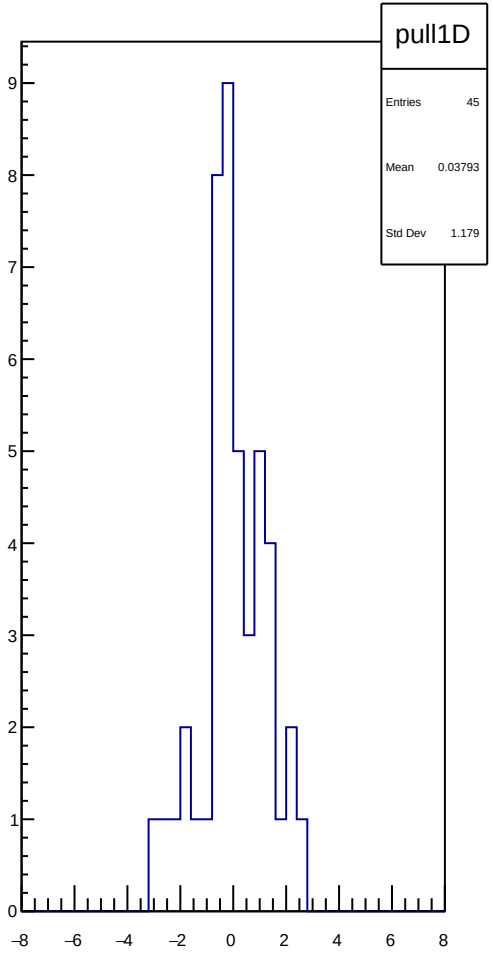

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.5739 / 44
p0 12.28 ± 4.125
pull
Entries 45
Mean 157
Std Dev 138.4

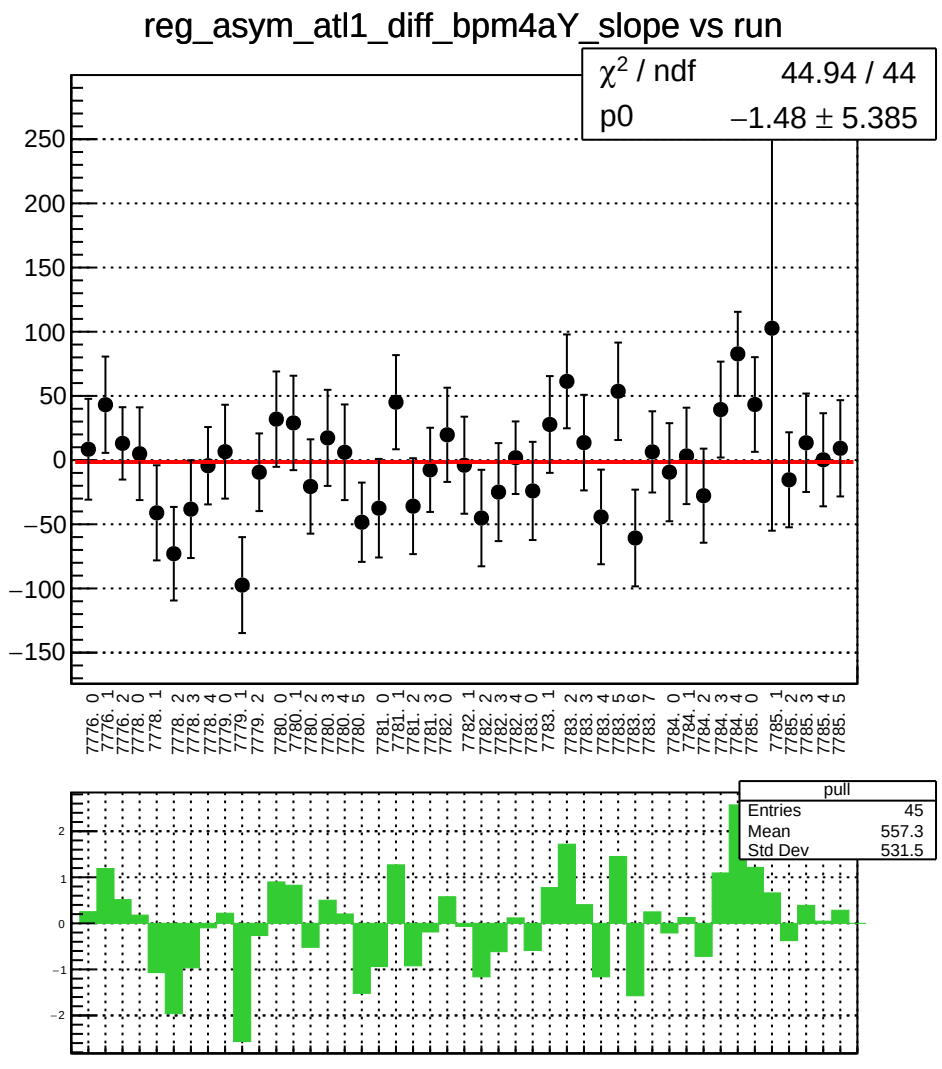

pull1D
Entries 45
Mean −0.002619
Std Dev 0.1129

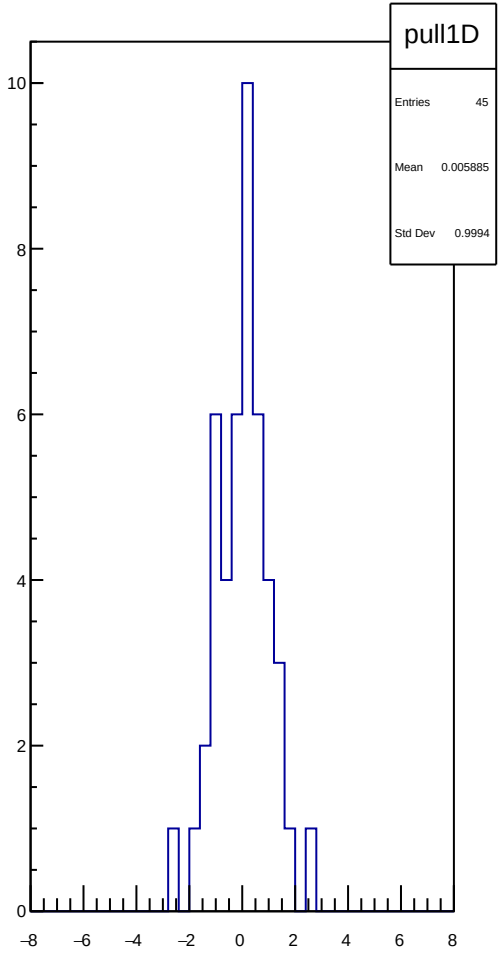

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 1.026 / 44
p0 −1.197 ± 0.1301
pull
Entries 45
Mean −2938
Std Dev 2960

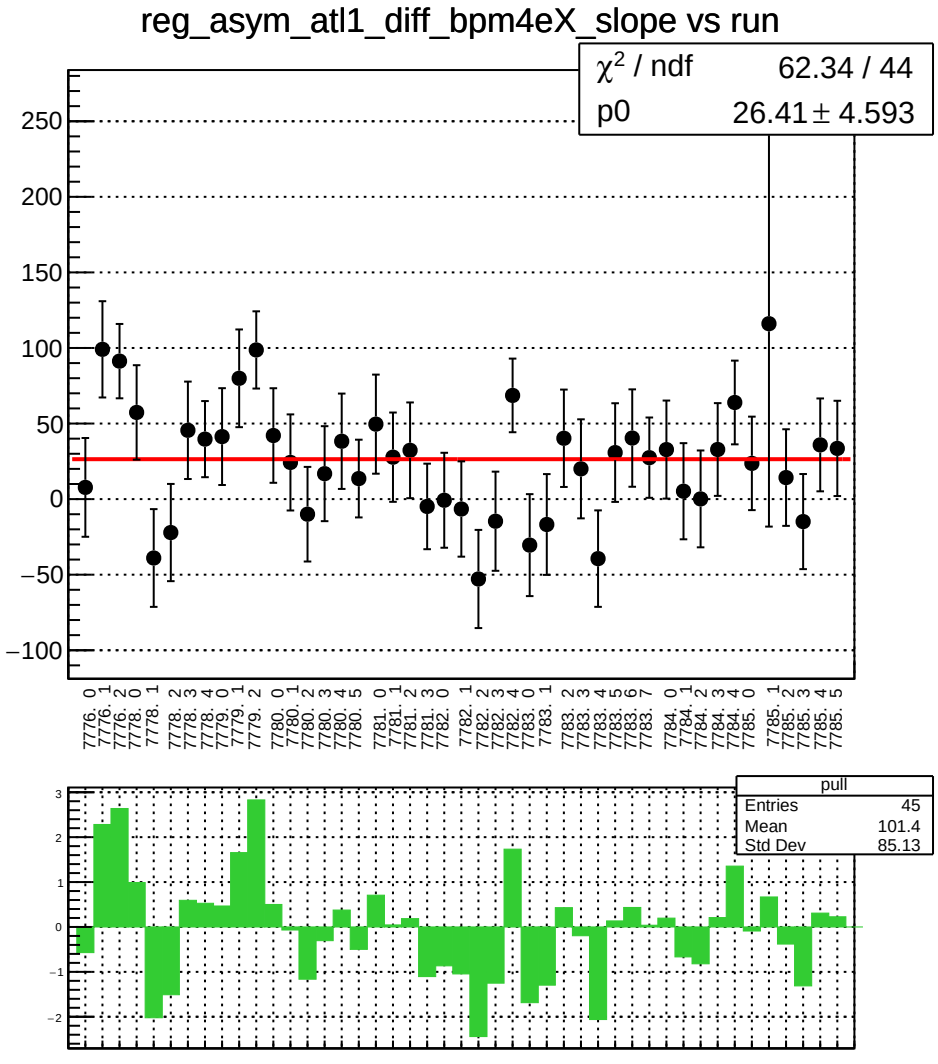

pull1D
Entries 45
Mean −0.0001425
Std Dev 0.151

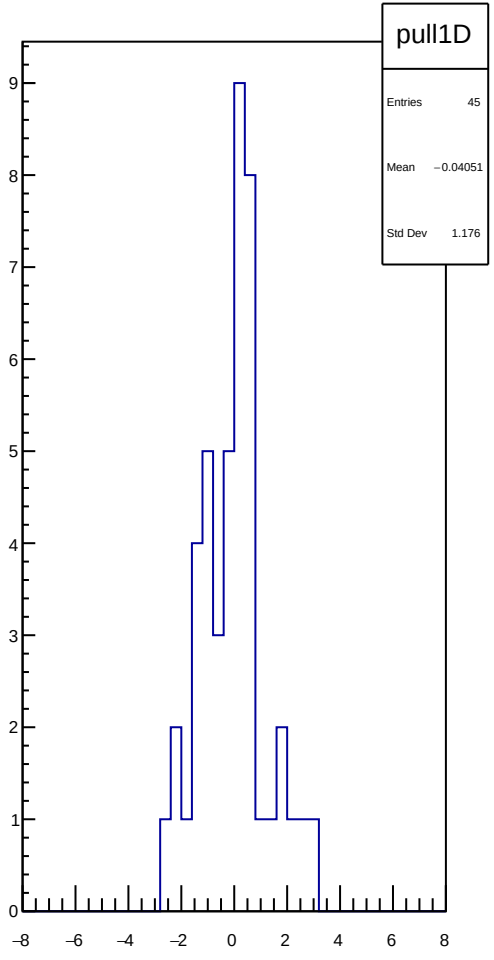

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 62.59 / 44
p0 8.779 ± 5.277
150
100
50
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 104.3
Std Dev 88.32
2
1
0
−1
−2
−3

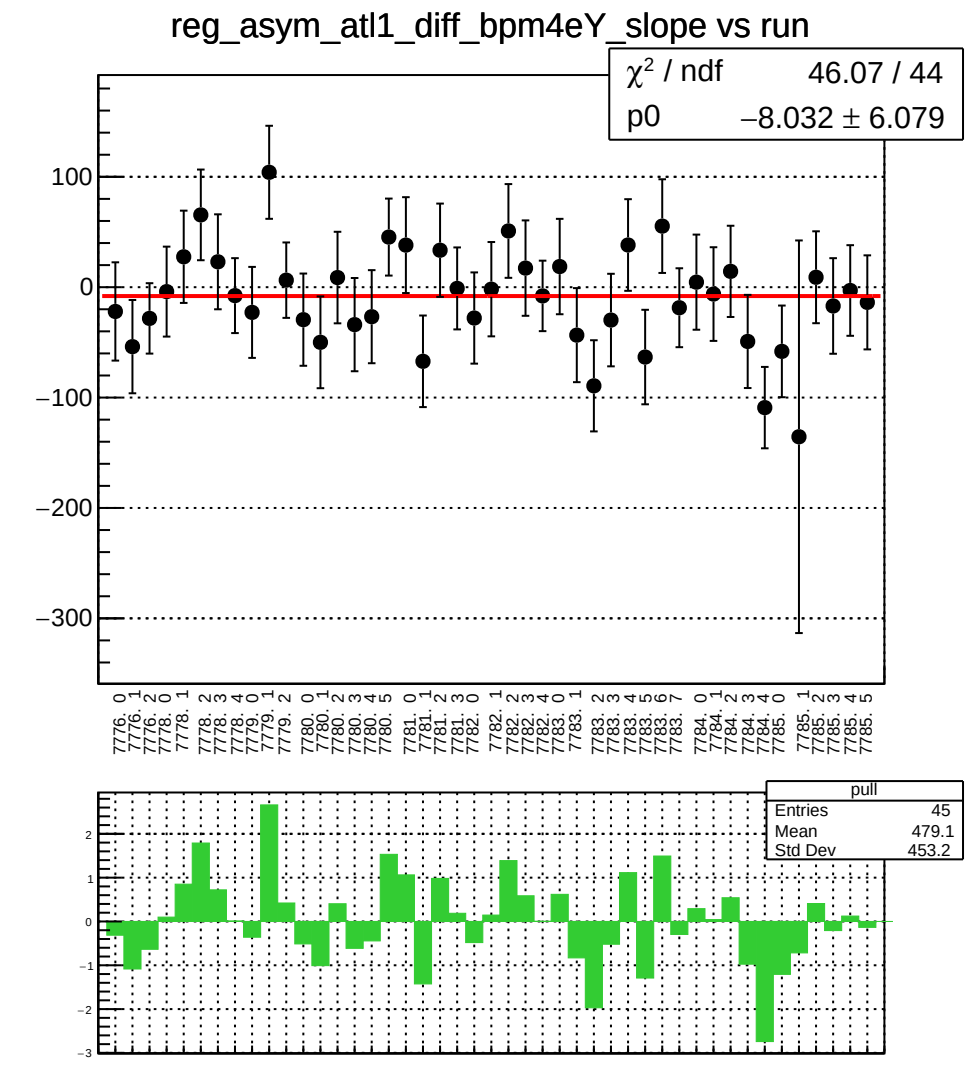

pull1D
Entries 45
Mean 0.03793
Std Dev 1.179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

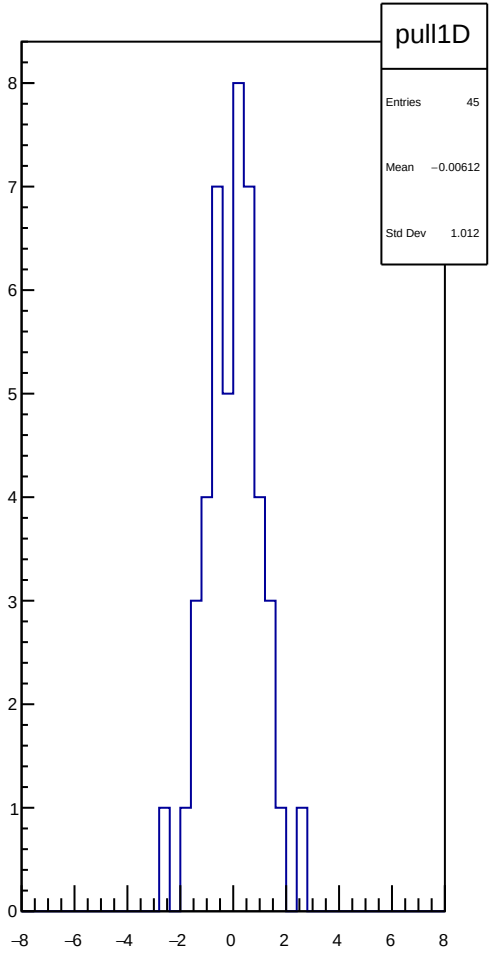

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 44.94 / 44
p0 −1.48 ± 5.385
250
200
150
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 557.3
Std Dev 531.5
2
1
0
−1
−2

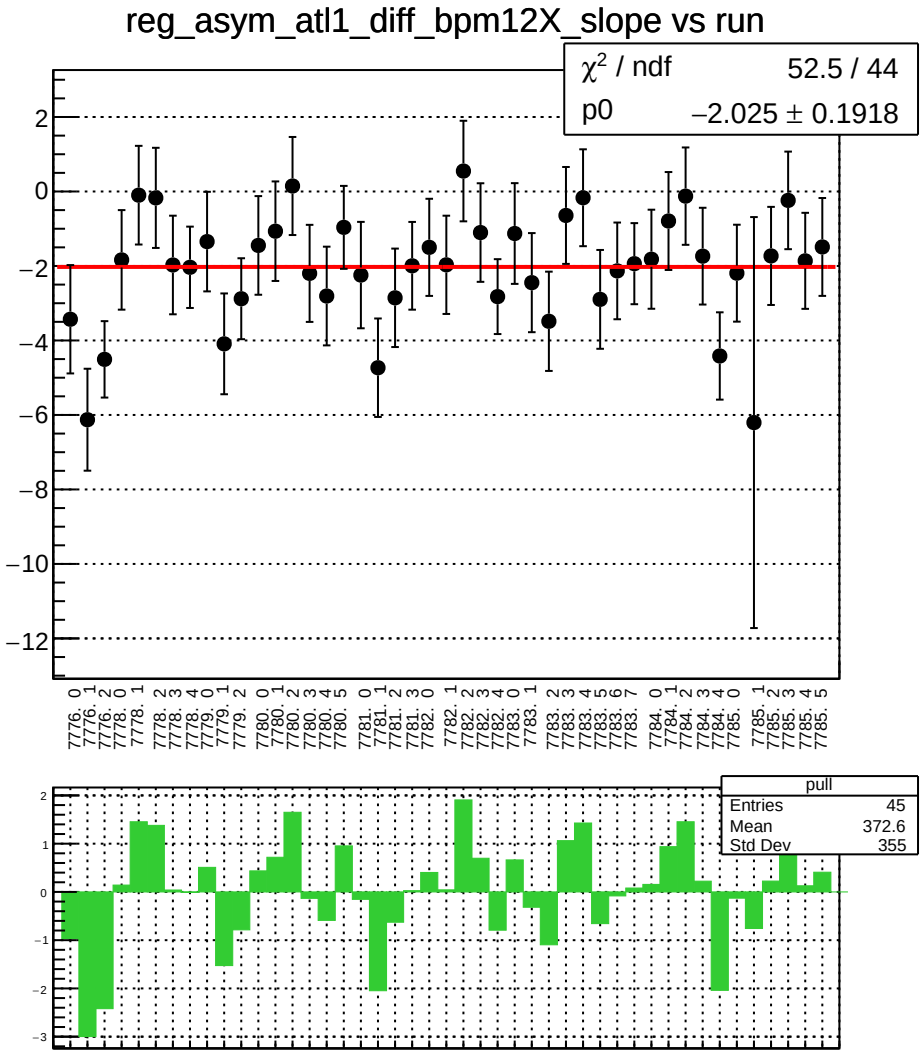

pull1D
Entries 45
Mean 0.005885
Std Dev 0.9994
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

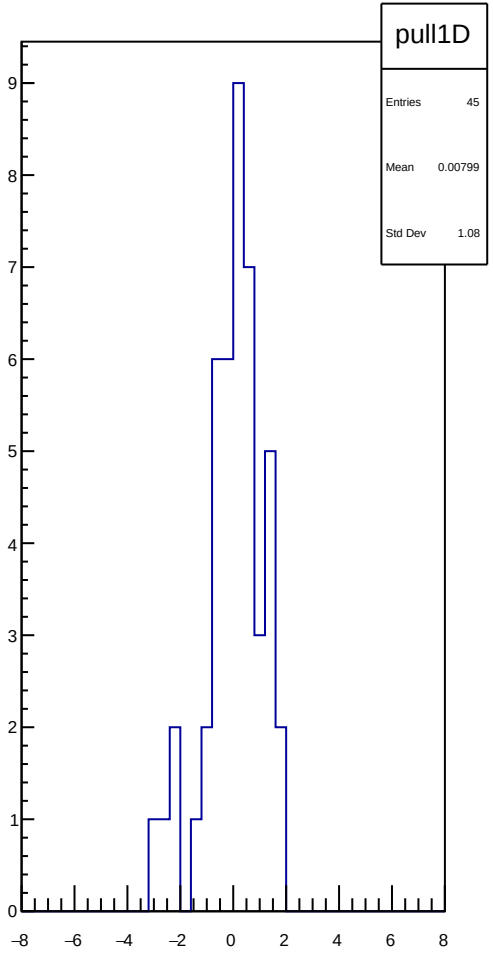

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 62.34 / 44
p0 26.41 ± 4.593
pull
Entries 45
Mean 101.4
Std Dev 85.13

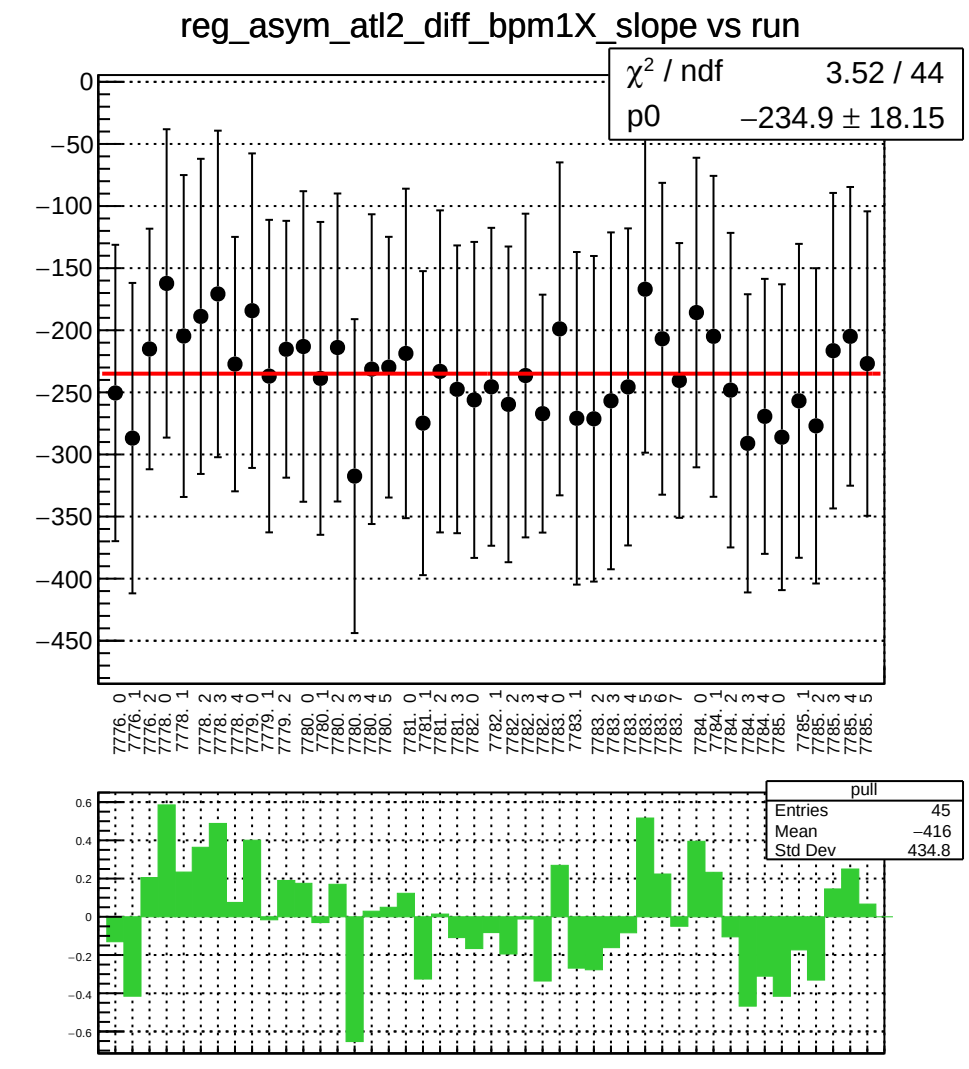

pull1D
Entries 45
Mean −0.04051
Std Dev 1.176

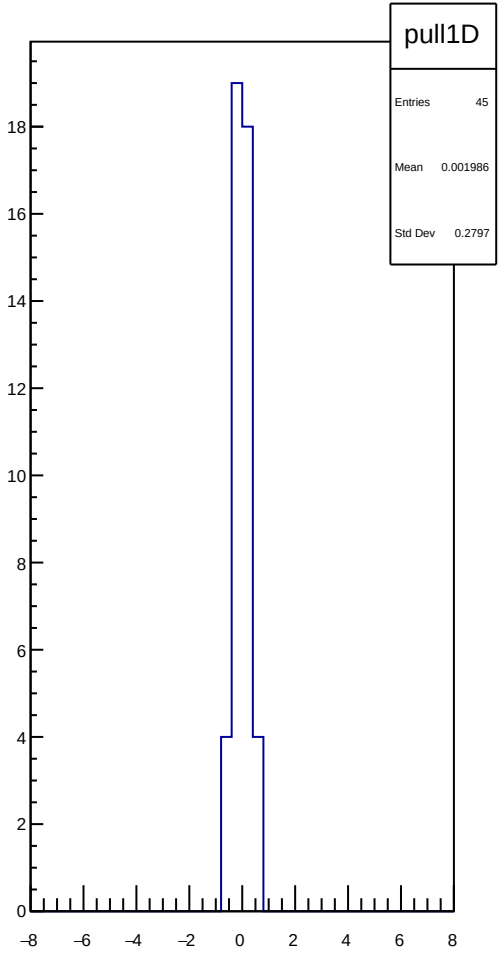

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 46.07 / 44
p0 −8.032 ± 6.079
100
0
−100
−200
−300
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 479.1
Std Dev 453.2
2
1
0
−1
−2
−3

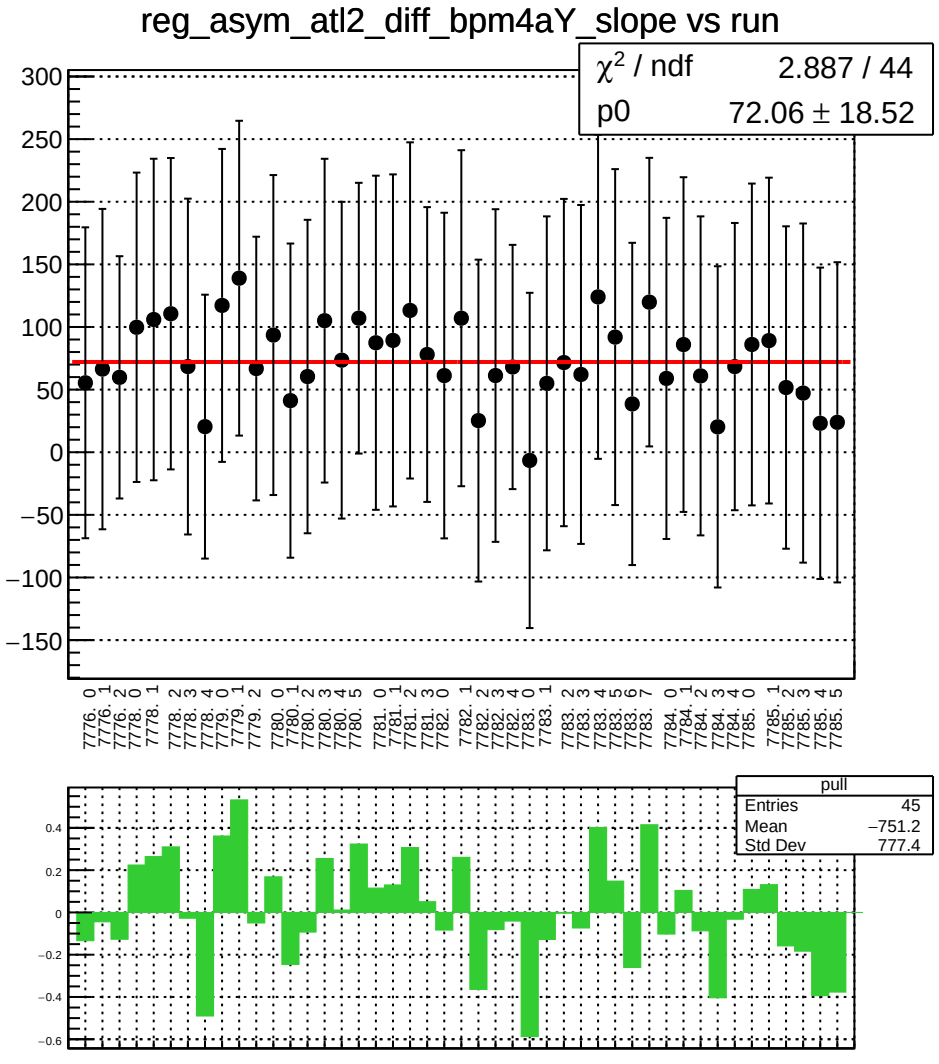

pull1D
Entries 45
Mean −0.00612
Std Dev 1.012
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

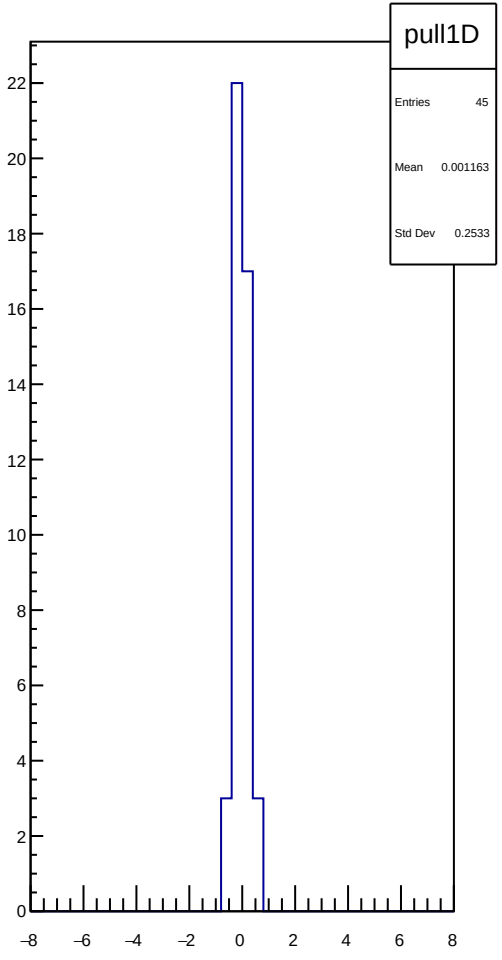

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 52.5 / 44
p0 −2.025 ± 0.1918
pull
Entries 45
Mean 372.6
Std Dev 355

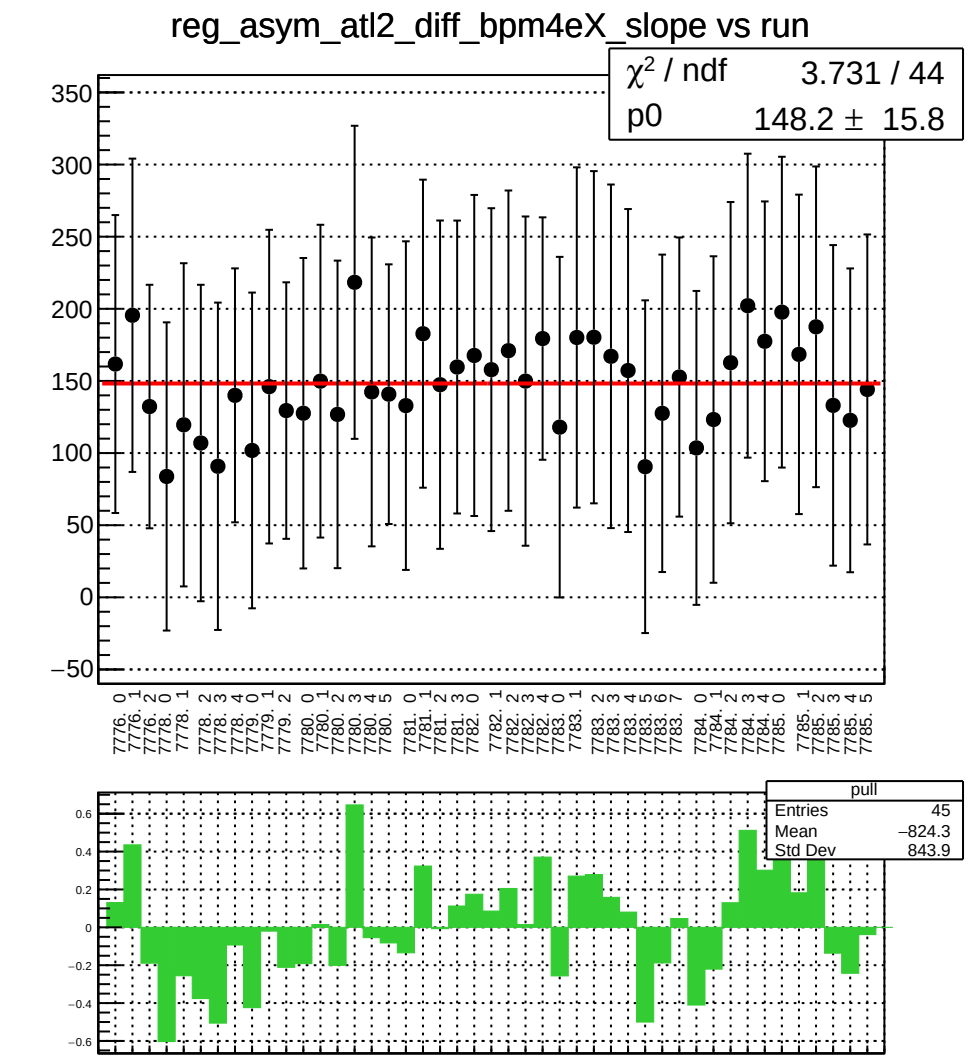

pull1D
Entries 45
Mean 0.00799
Std Dev 1.08

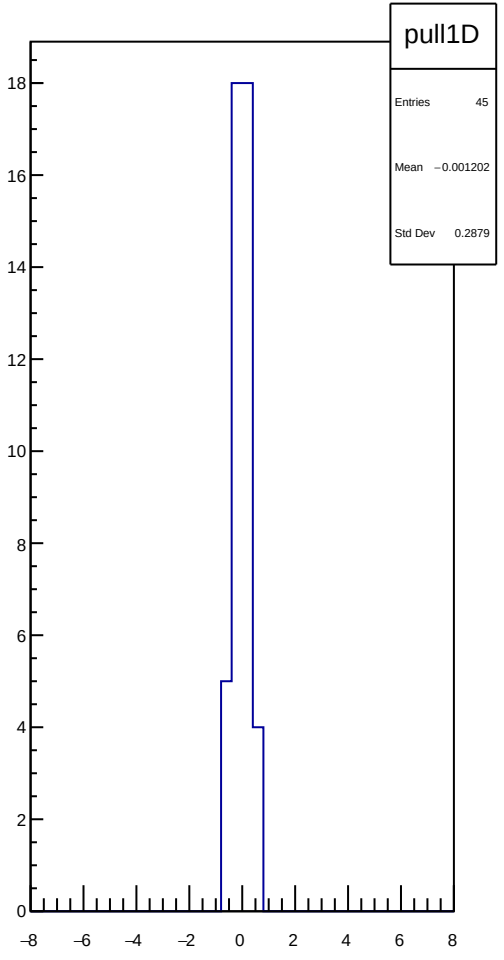

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 3.52 / 44
p0 −234.9 ± 18.15
pull
Entries 45
Mean −416
Std Dev 434.8

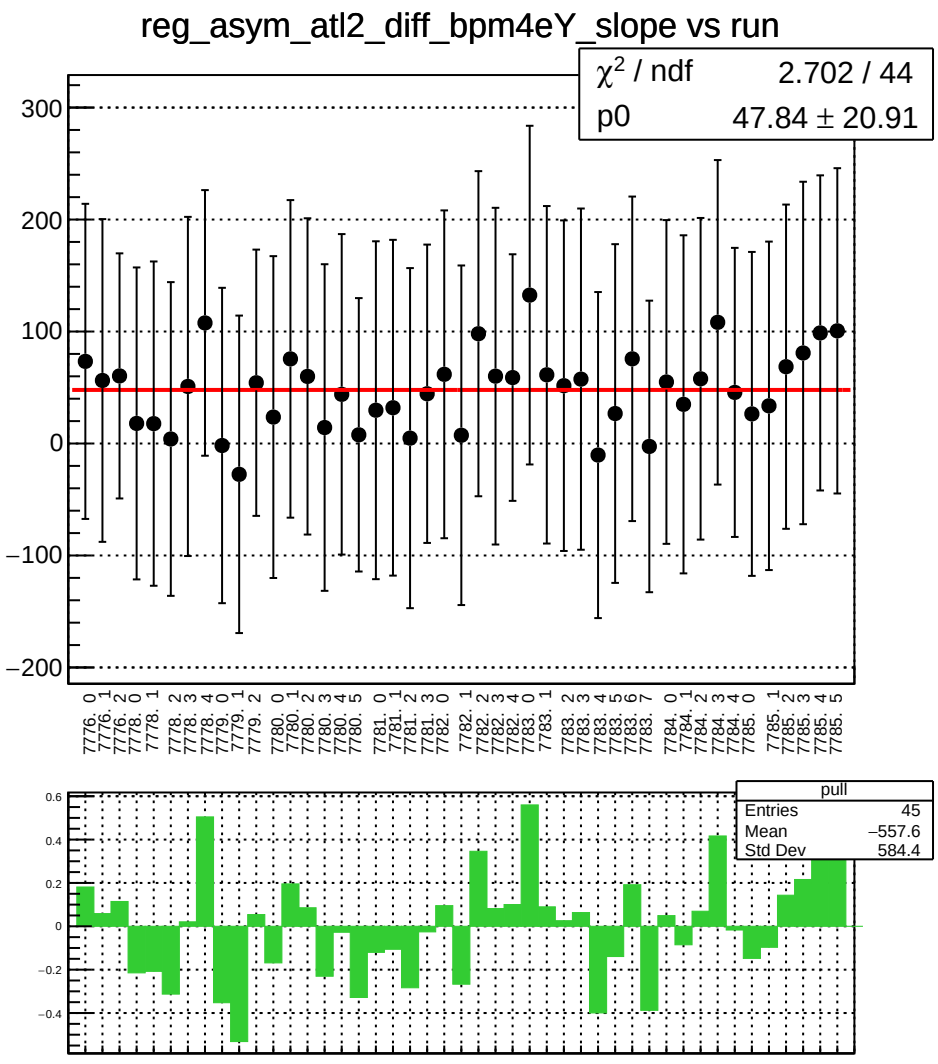

pull1D
Entries 45
Mean 0.001986
Std Dev 0.2797

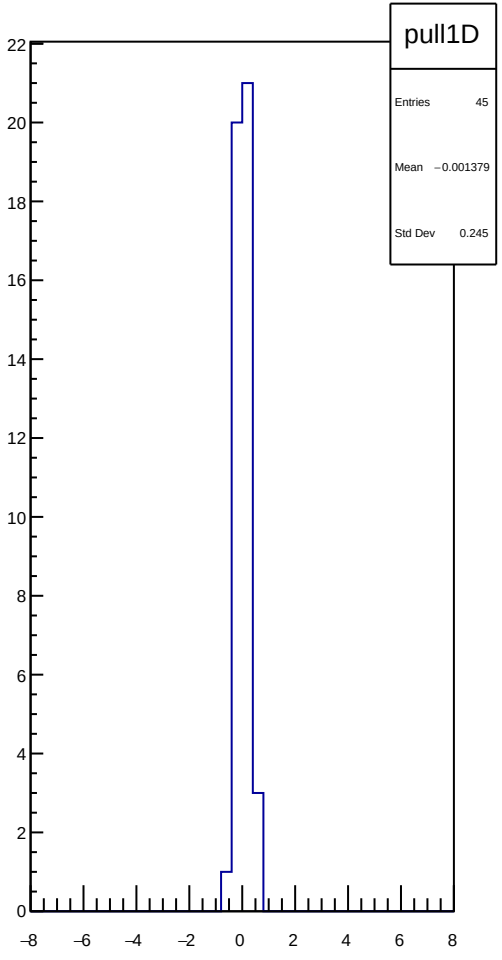

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.887 / 44
p0 72.06 ± 18.52
pull
Entries 45
Mean −751.2
Std Dev 777.4

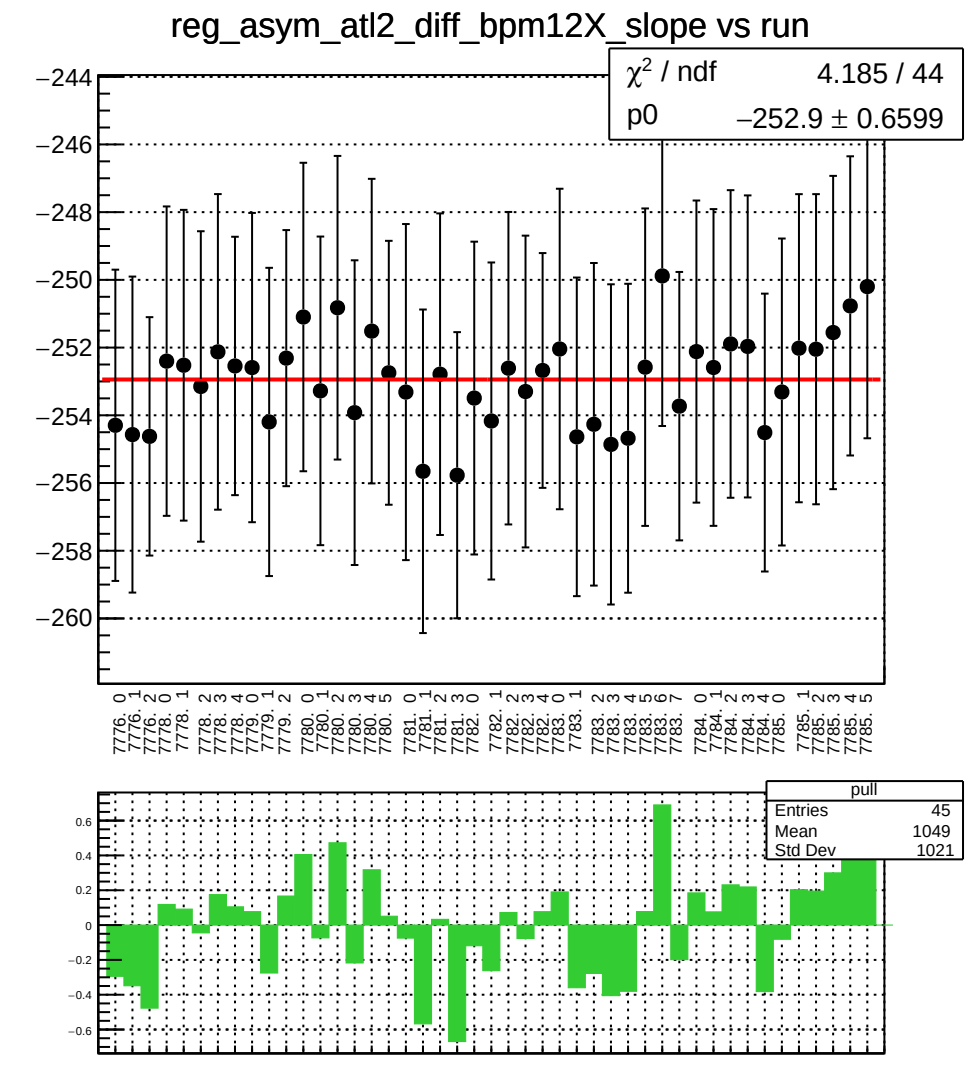

pull1D
Entries 45
Mean 0.001163
Std Dev 0.2533

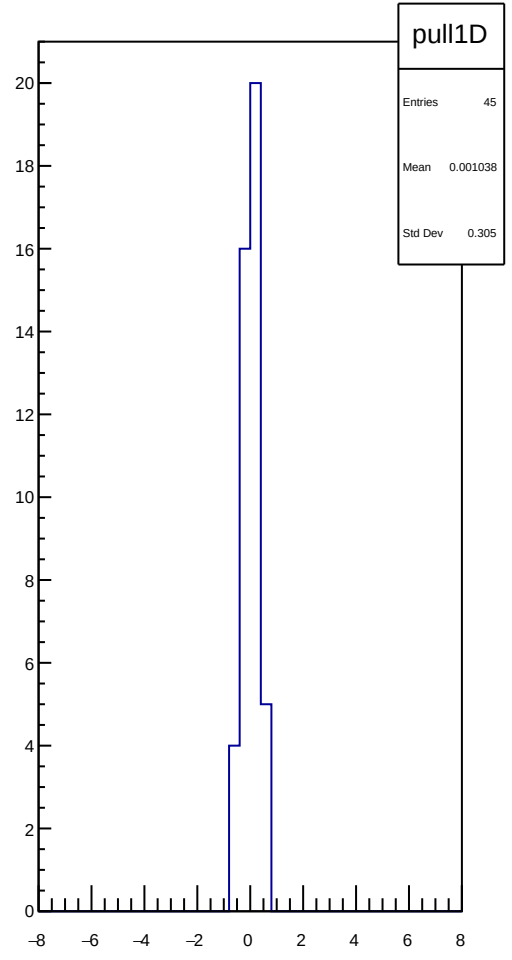

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 3.731 / 44
p0 148.2 ± 15.8
pull
Entries 45
Mean −824.3
Std Dev 843.9

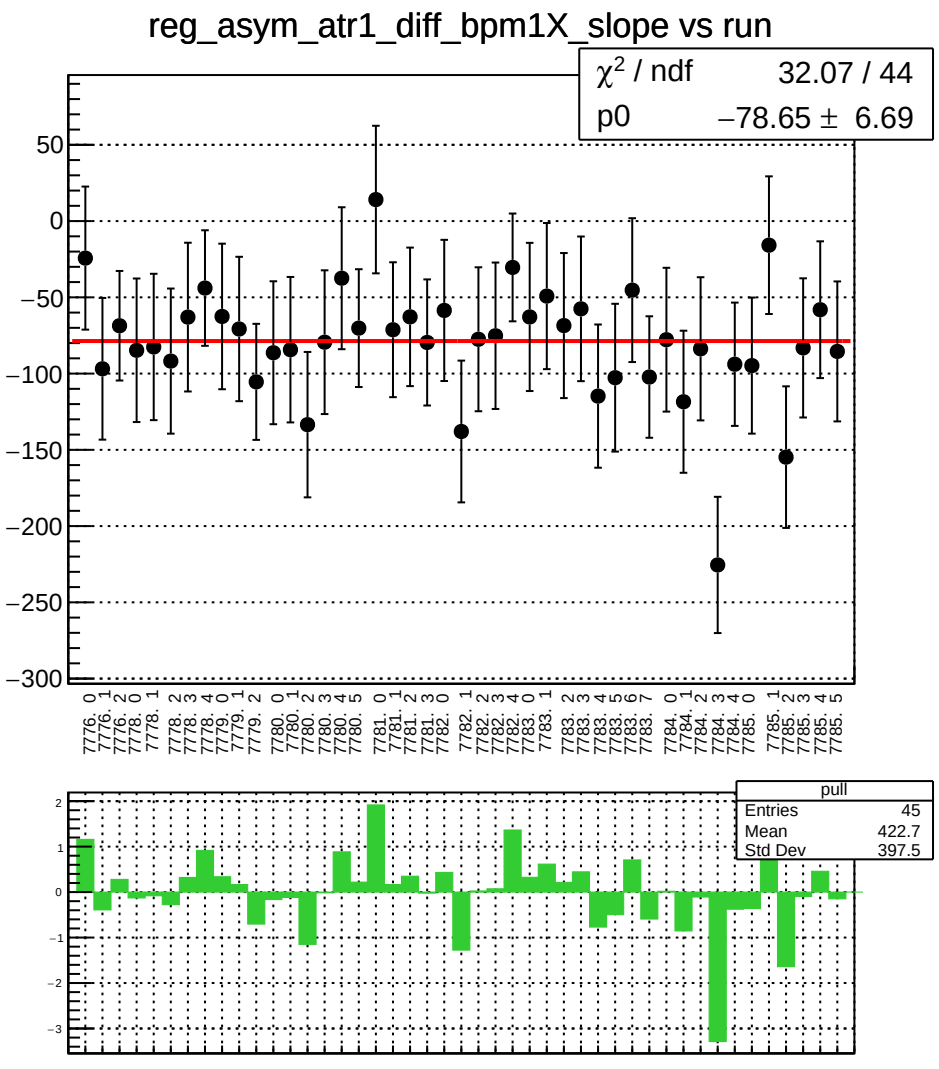

pull1D
Entries 45
Mean −0.001202
Std Dev 0.2879

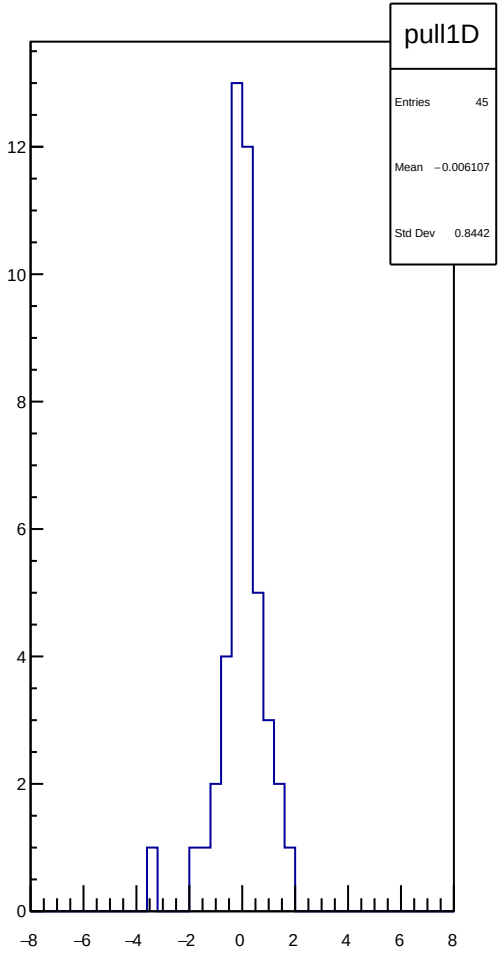

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.702 / 44
p0 47.84 ± 20.91
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −557.6
Std Dev 584.4
0.6
0.4
0.2
0
−0.2
−0.4

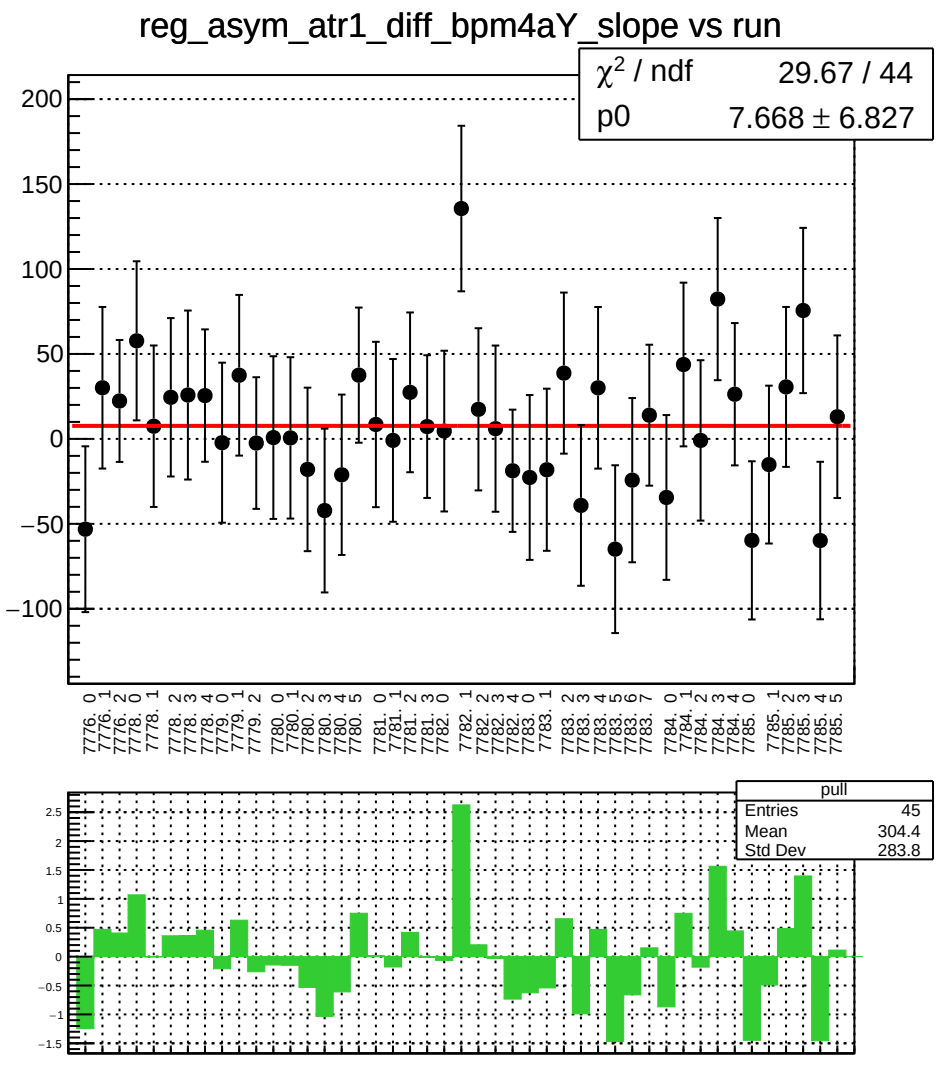

pull1D
Entries 45
Mean −0.001379
Std Dev 0.245
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

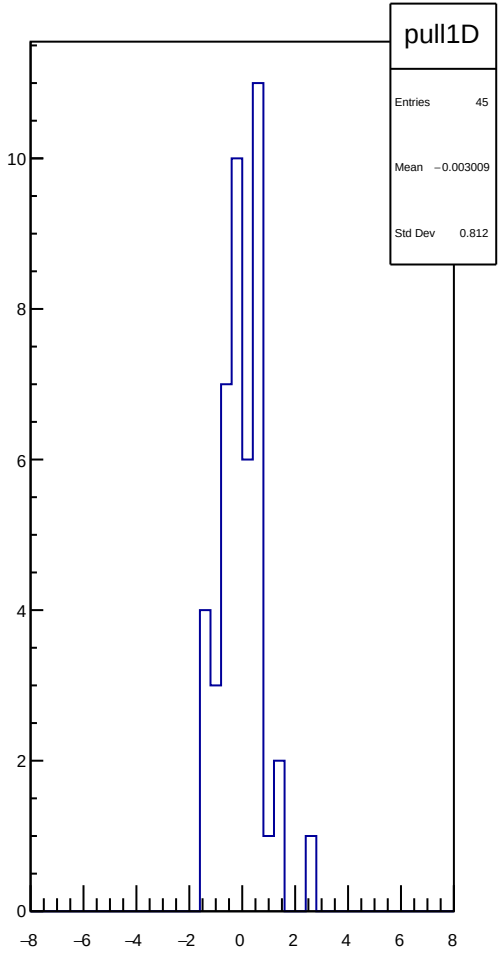

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 4.185 / 44
p0 −252.9 ± 0.6599
pull
Entries 45
Mean 1049
Std Dev 1021

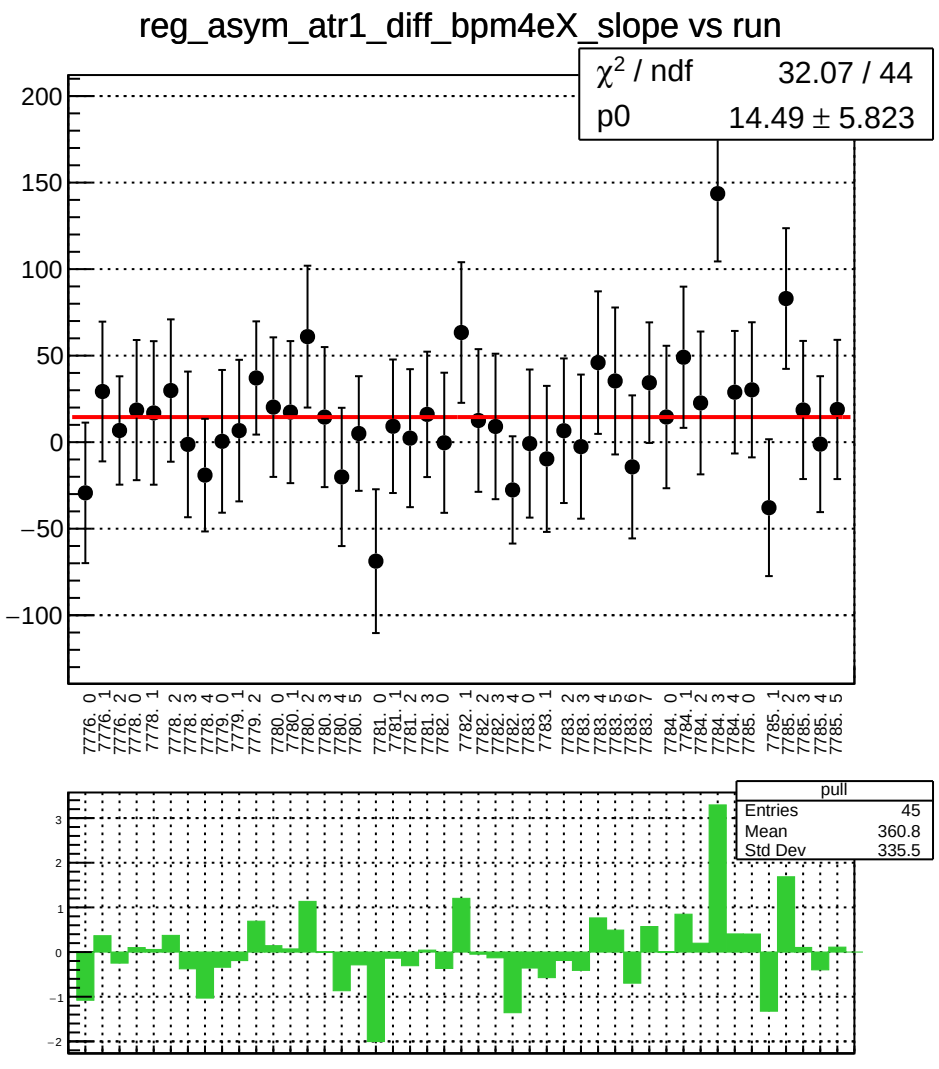

pull1D
Entries 45
Mean 0.001038
Std Dev 0.305

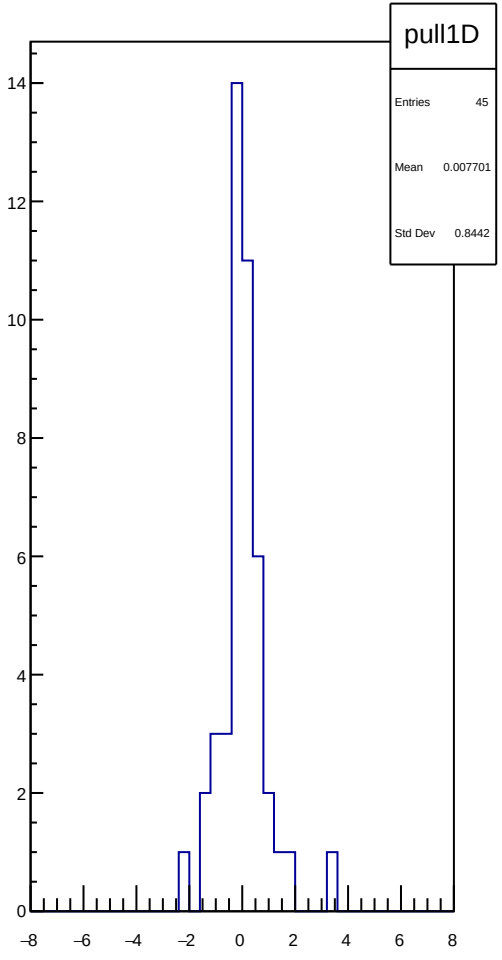

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 32.07 / 44
p0 −78.65 ± 6.69
pull
Entries 45
Mean 422.7
Std Dev 397.5

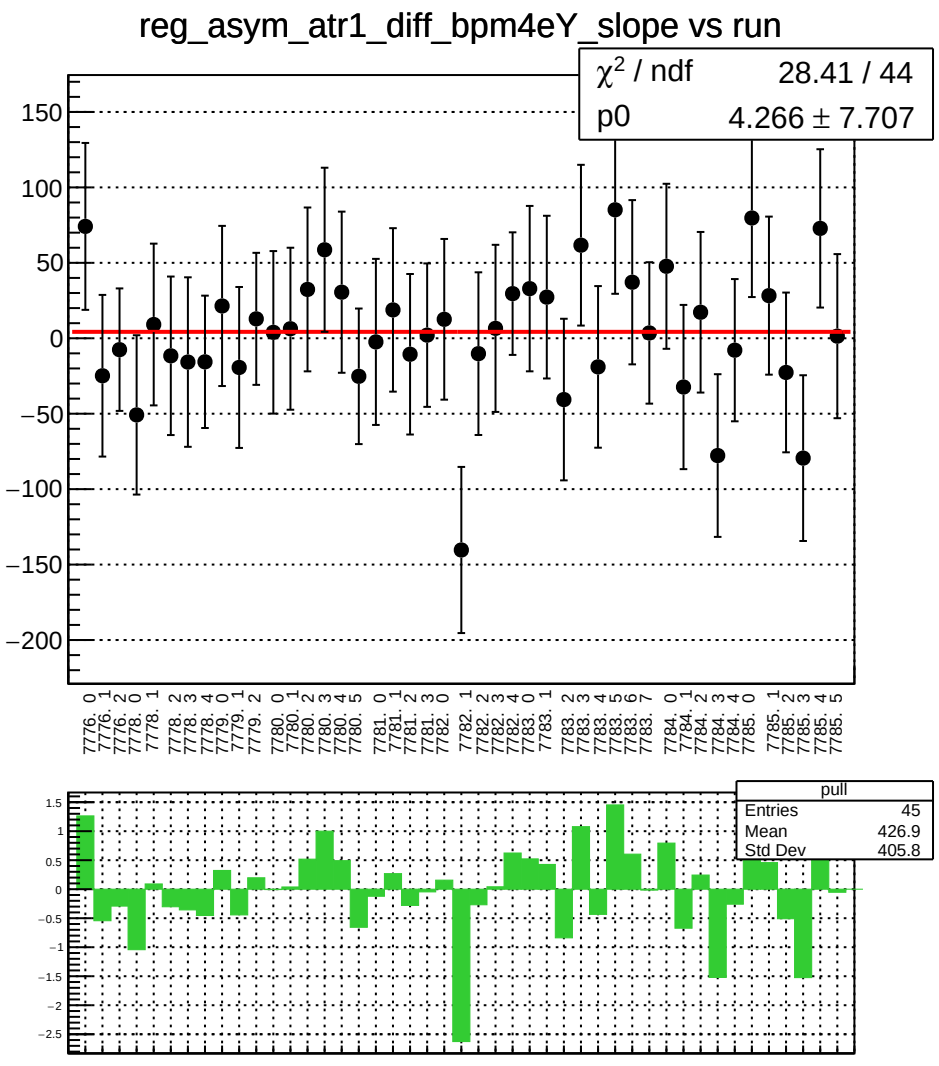

pull1D
Entries 45
Mean −0.006107
Std Dev 0.8442

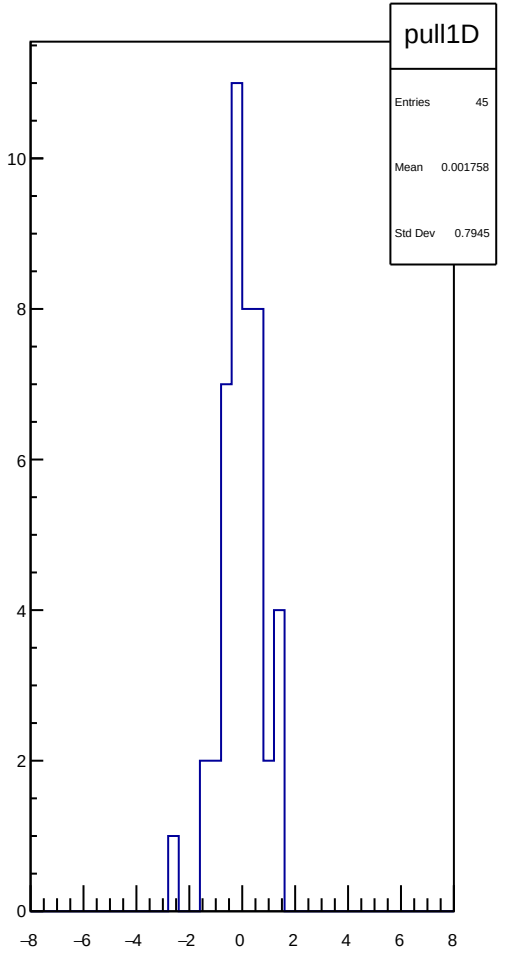

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 29.67 / 44
p0 7.668 ± 6.827
pull
Entries 45
Mean 304.4
Std Dev 283.8

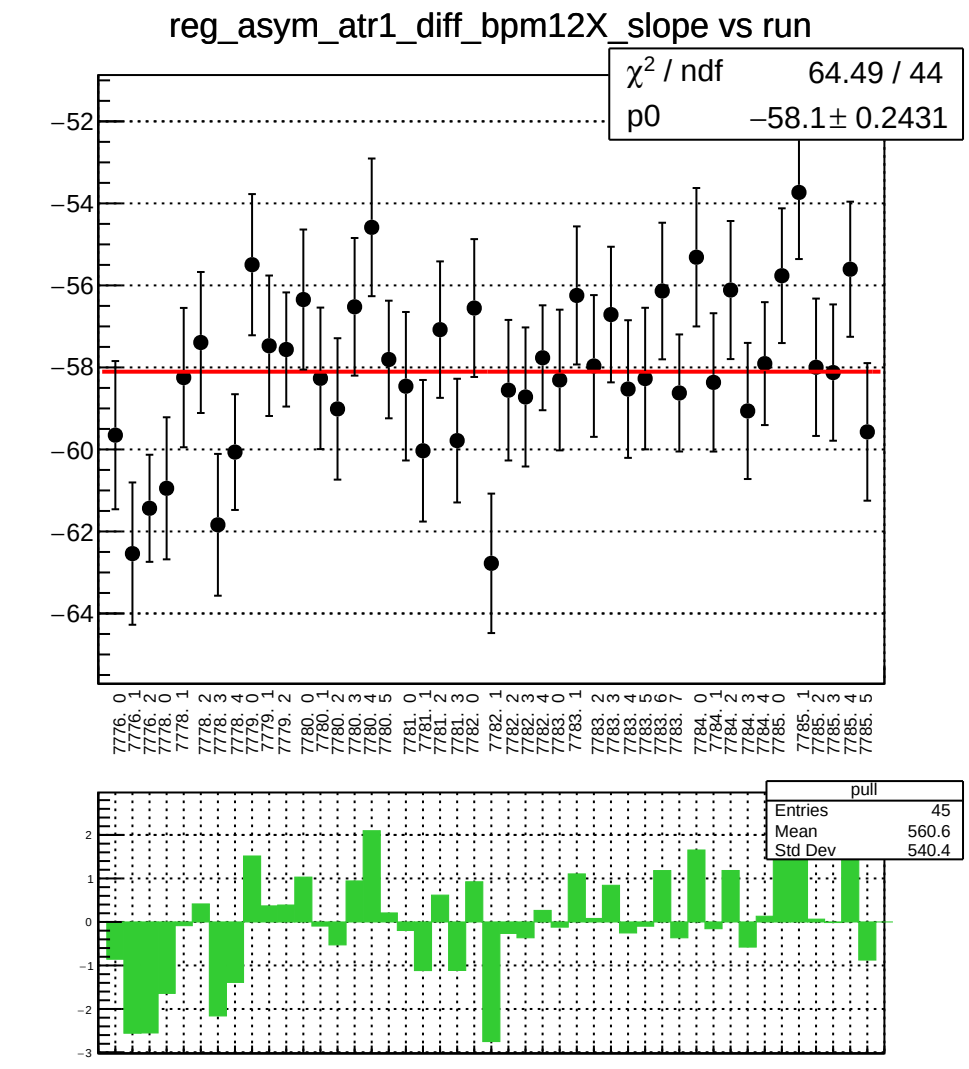

pull1D
Entries 45
Mean −0.003009
Std Dev 0.812

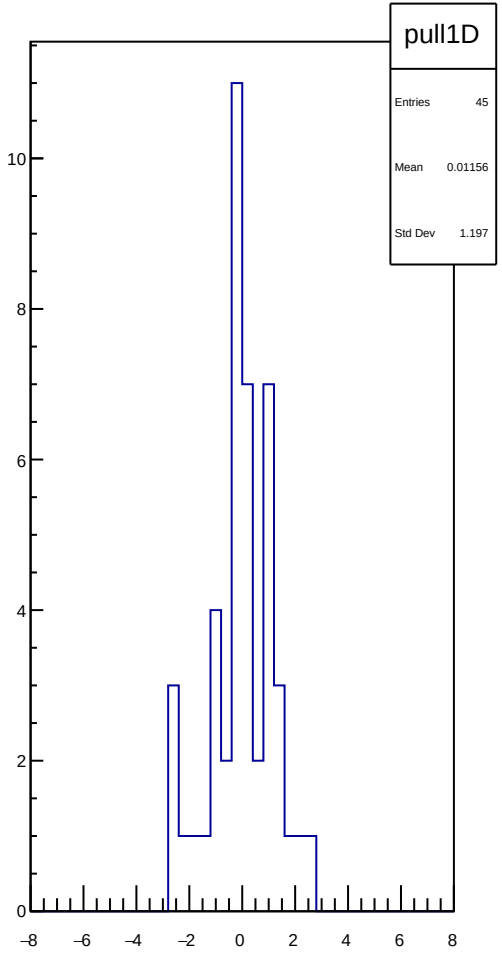

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 32.07 / 44
p0 14.49 ± 5.823
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 360.8
Std Dev 335.5
3
2
1
0
−1
−2

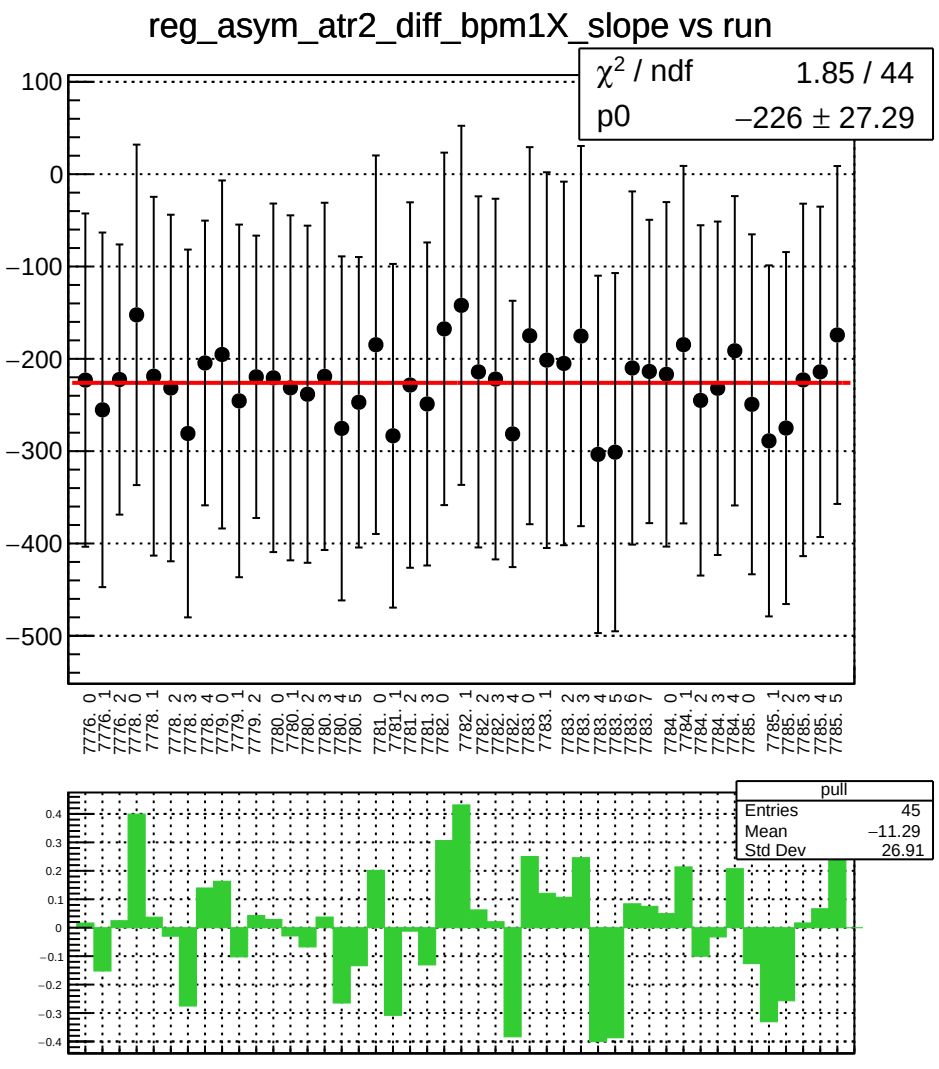

pull1D
Entries 45
Mean 0.007701
Std Dev 0.8442
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

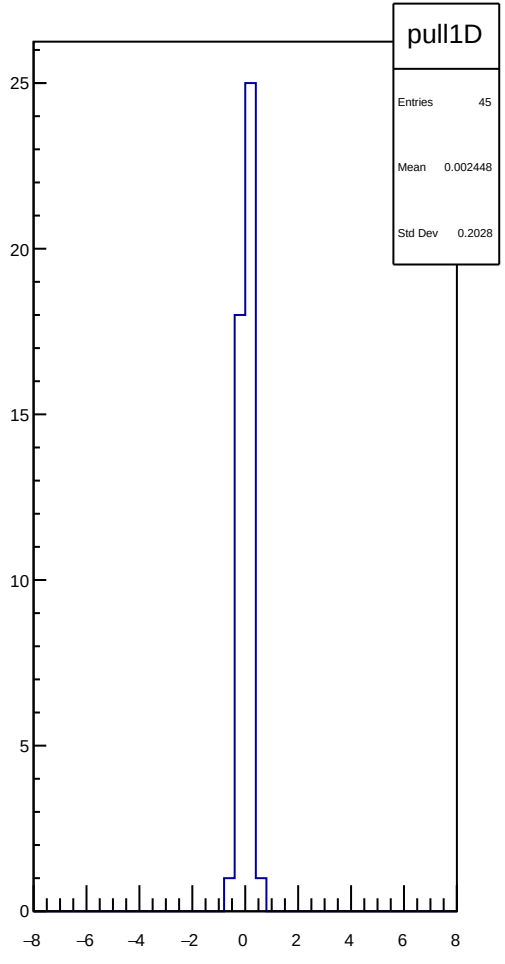

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 28.41 / 44
p0 4.266 ± 7.707
pull
Entries 45
Mean 426.9
Std Dev 405.8

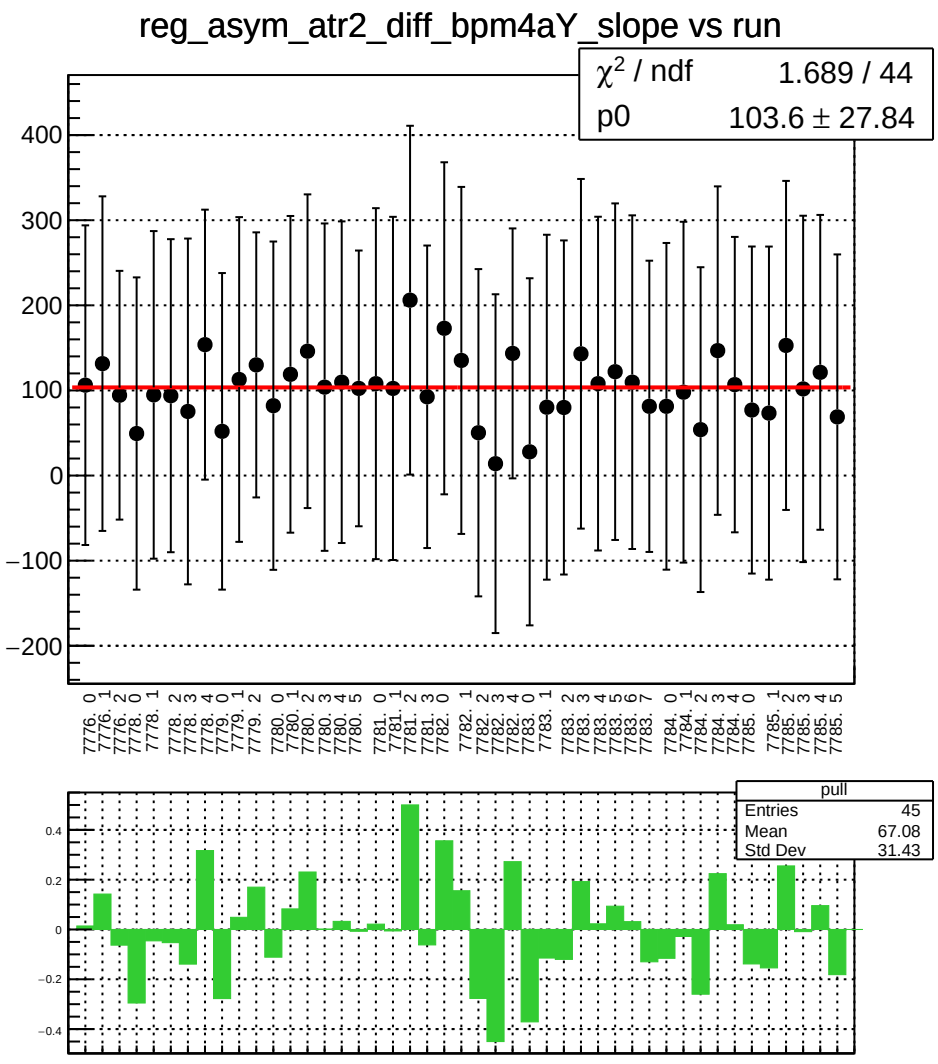

pull1D
Entries 45
Mean 0.001758
Std Dev 0.7945

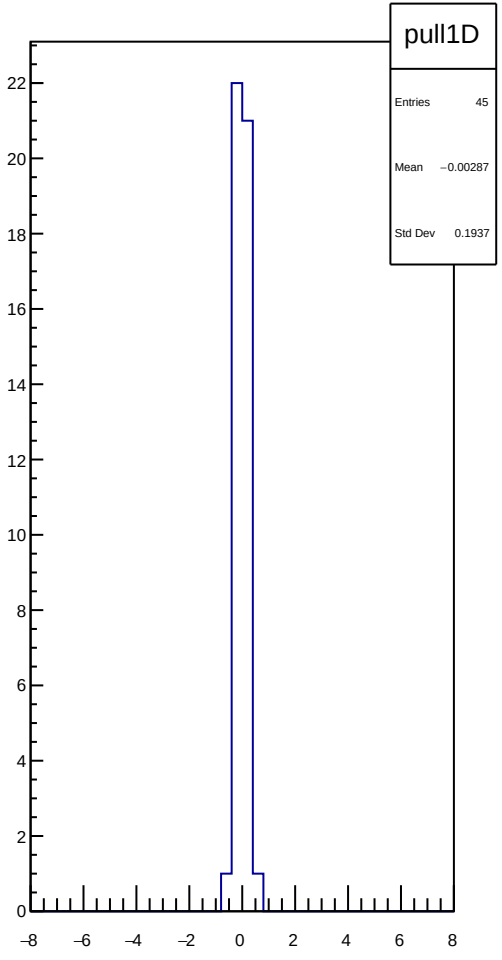

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 64.49 / 44
p0 −58.1± 0.2431
pull
Entries 45
Mean 560.6
Std Dev 540.4

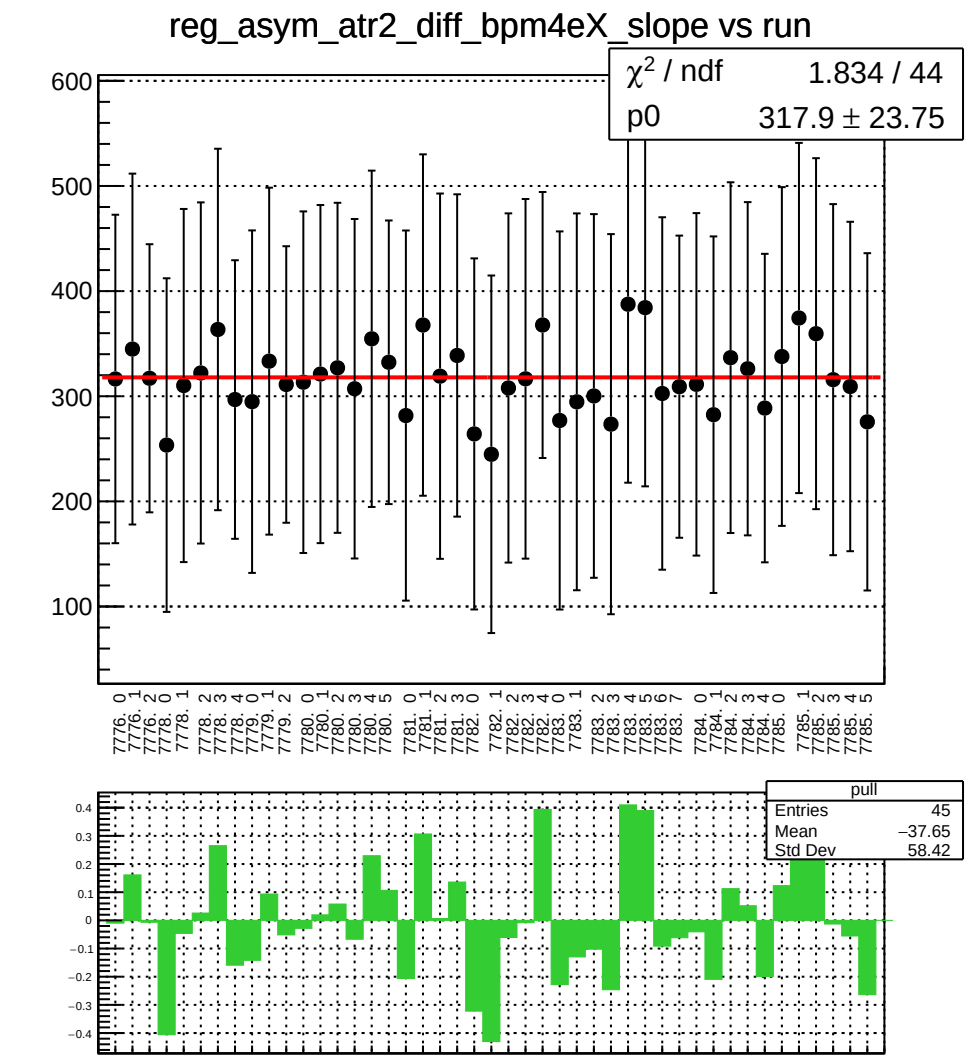

pull1D
Entries 45
Mean 0.01156
Std Dev 1.197

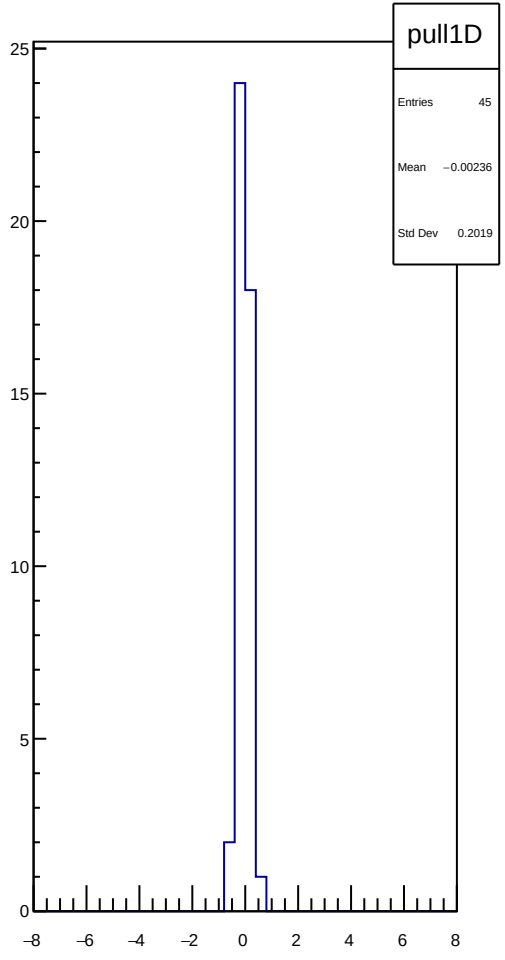

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 1.85 / 44
p0 −226 ± 27.29
pull
Entries 45
Mean −11.29
Std Dev 26.91

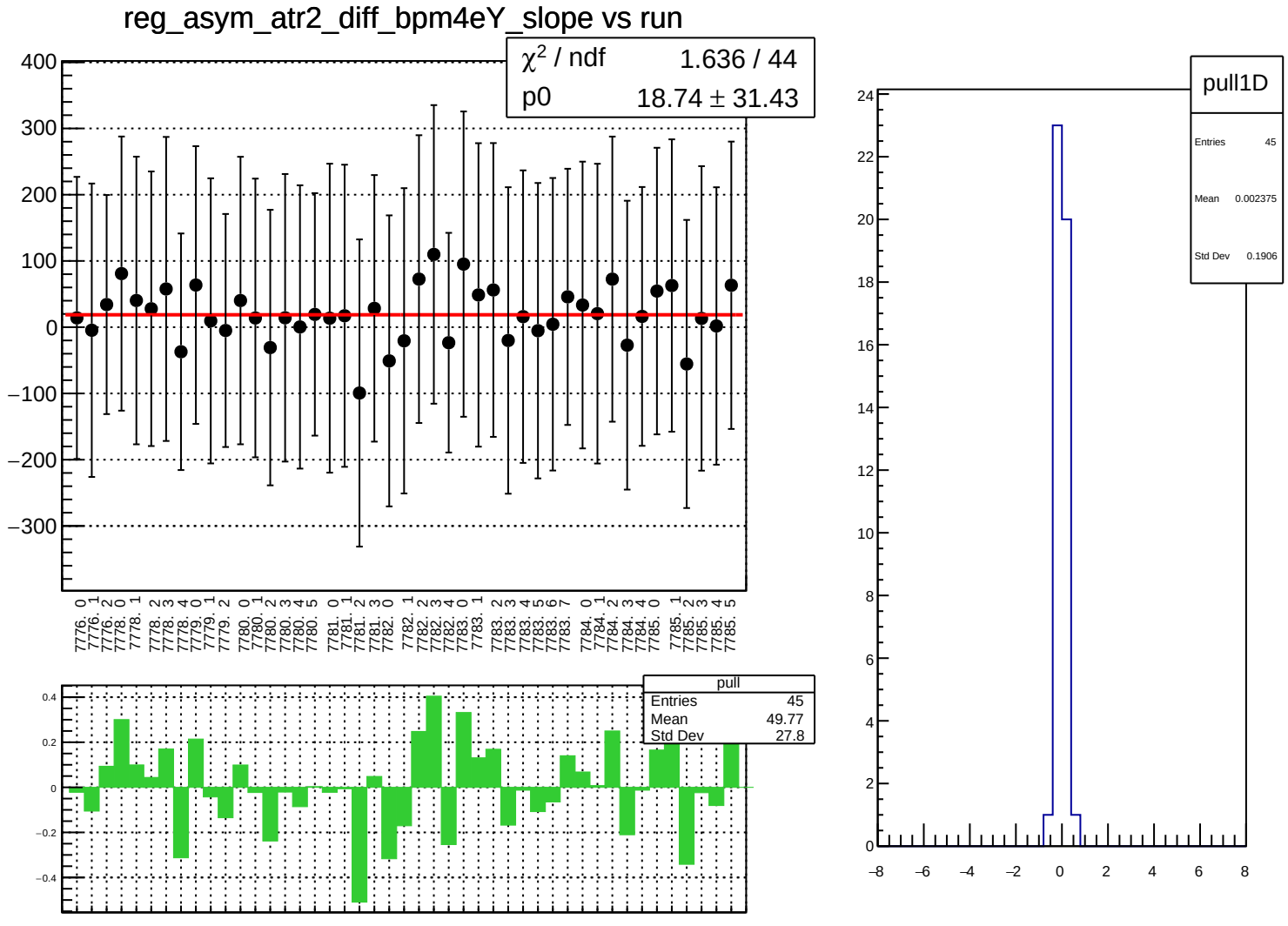

pull1D
Entries 45
Mean 0.002448
Std Dev 0.2028

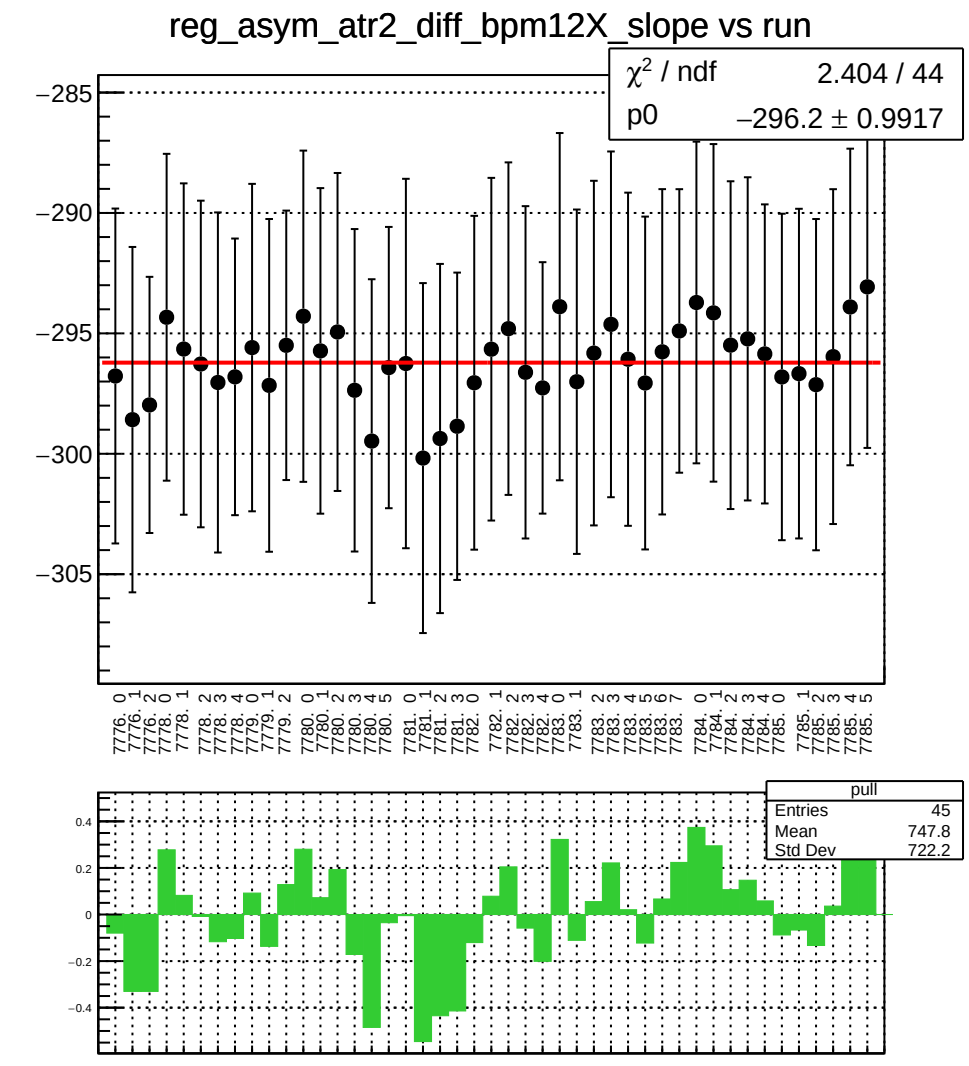

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.689 / 44
p0 103.6 ± 27.84
pull
Entries 45
Mean 67.08
Std Dev 31.43

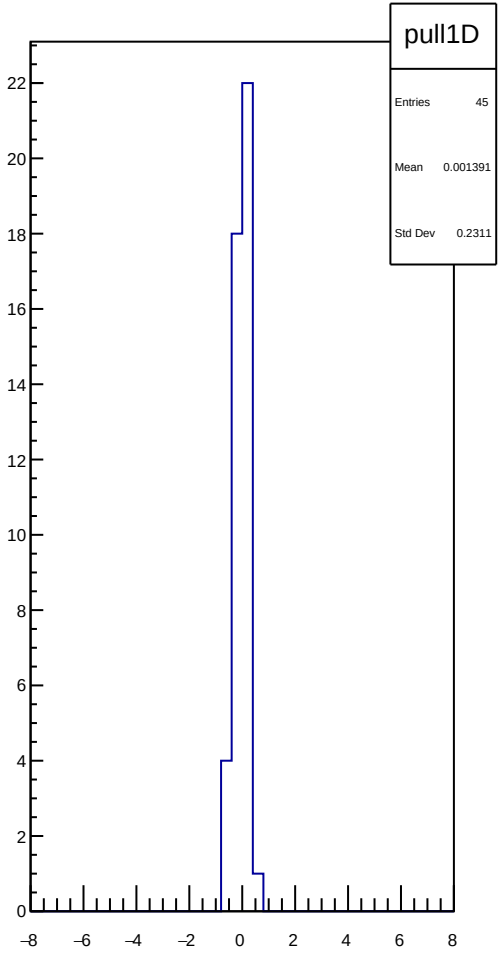

pull1D
Entries 45
Mean −0.00287
Std Dev 0.1937

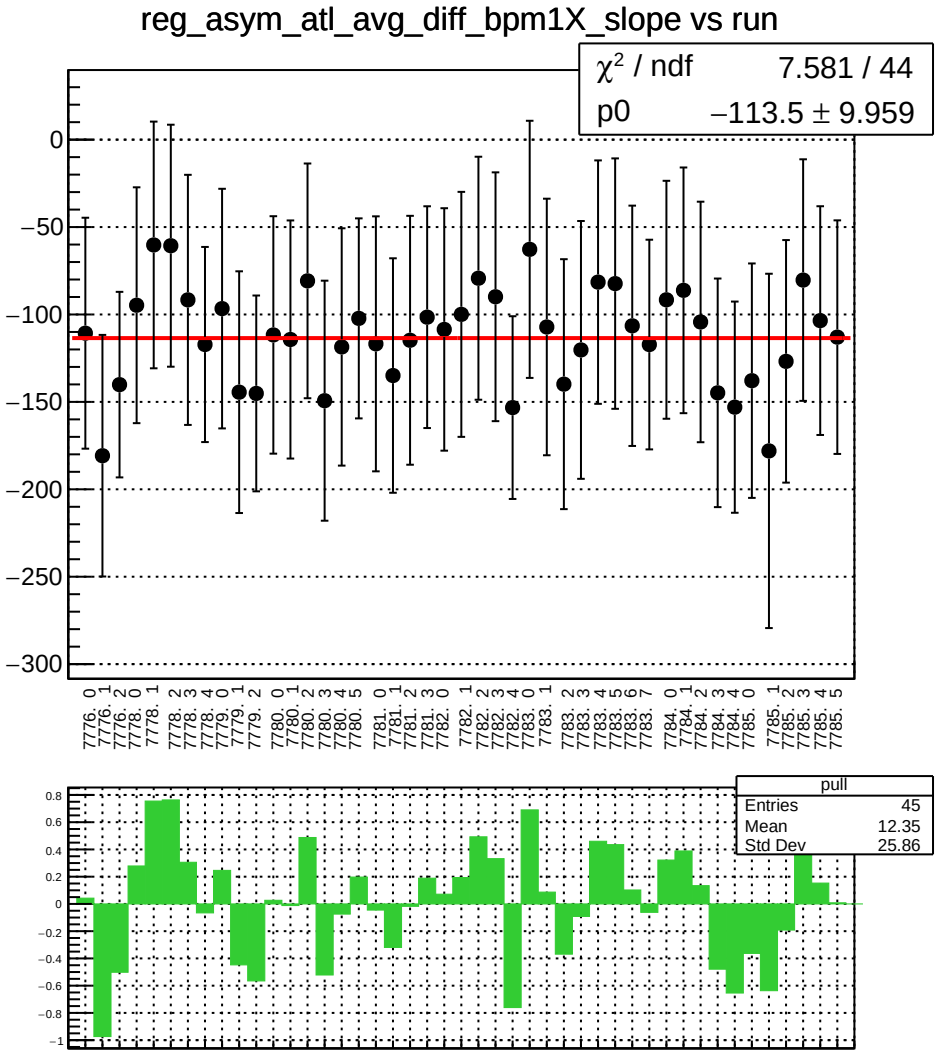

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 1.834 / 44
p0 317.9 ± 23.75
600
500
400
300
200
100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −37.65
Std Dev 58.42
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

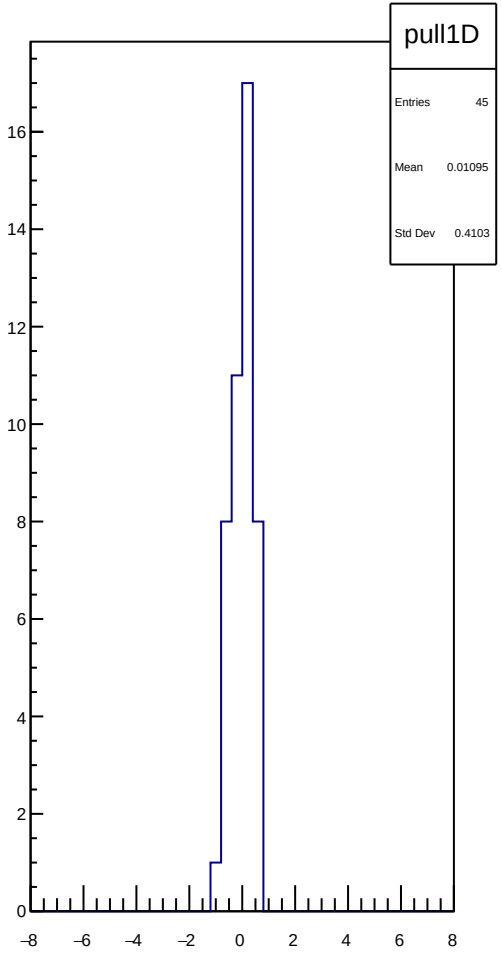

pull1D
Entries 45
Mean −0.00236
Std Dev 0.2019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

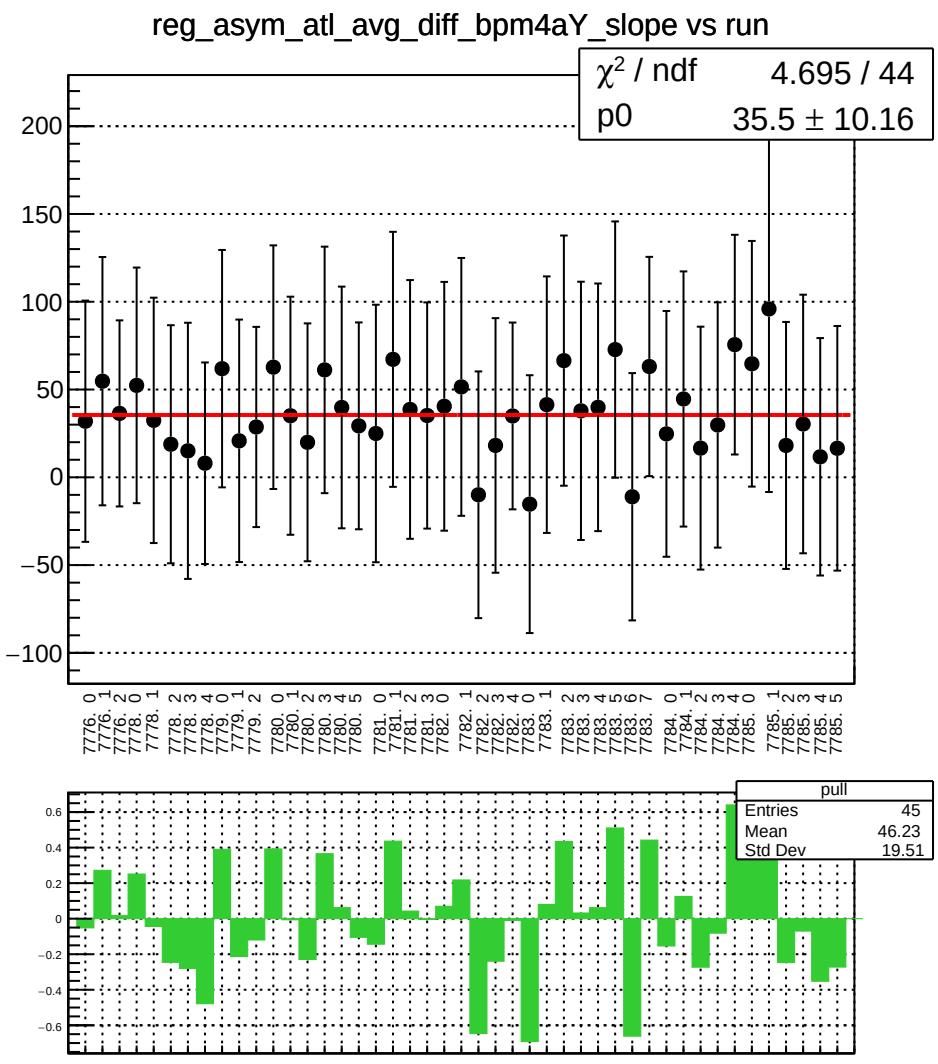

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.636 / 44
p0 18.74 ± 31.43
pull
Entries 45
Mean 49.77
Std Dev 27.8
pull1D
Entries 45
Mean 0.002375
Std Dev 0.1906

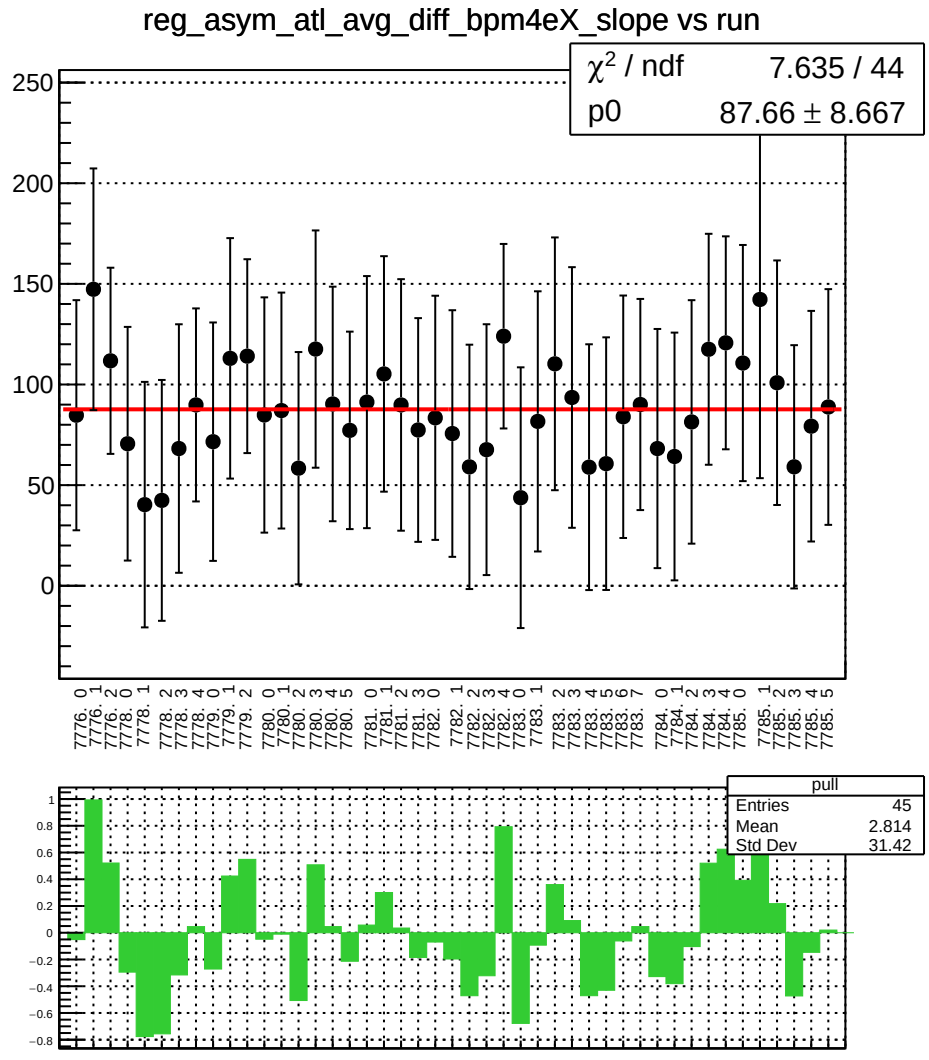

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 2.404 / 44
p0 −296.2 ± 0.9917
−285
−290
−295
−300
−305
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 747.8
Std Dev 722.2
0.4
0.2
0
−0.2
−0.4

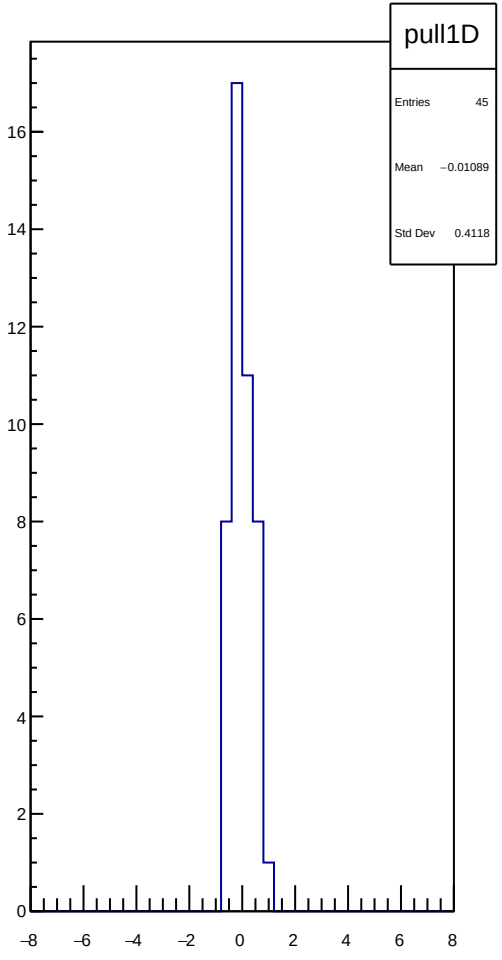

pull1D
Entries 45
Mean 0.001391
Std Dev 0.2311
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

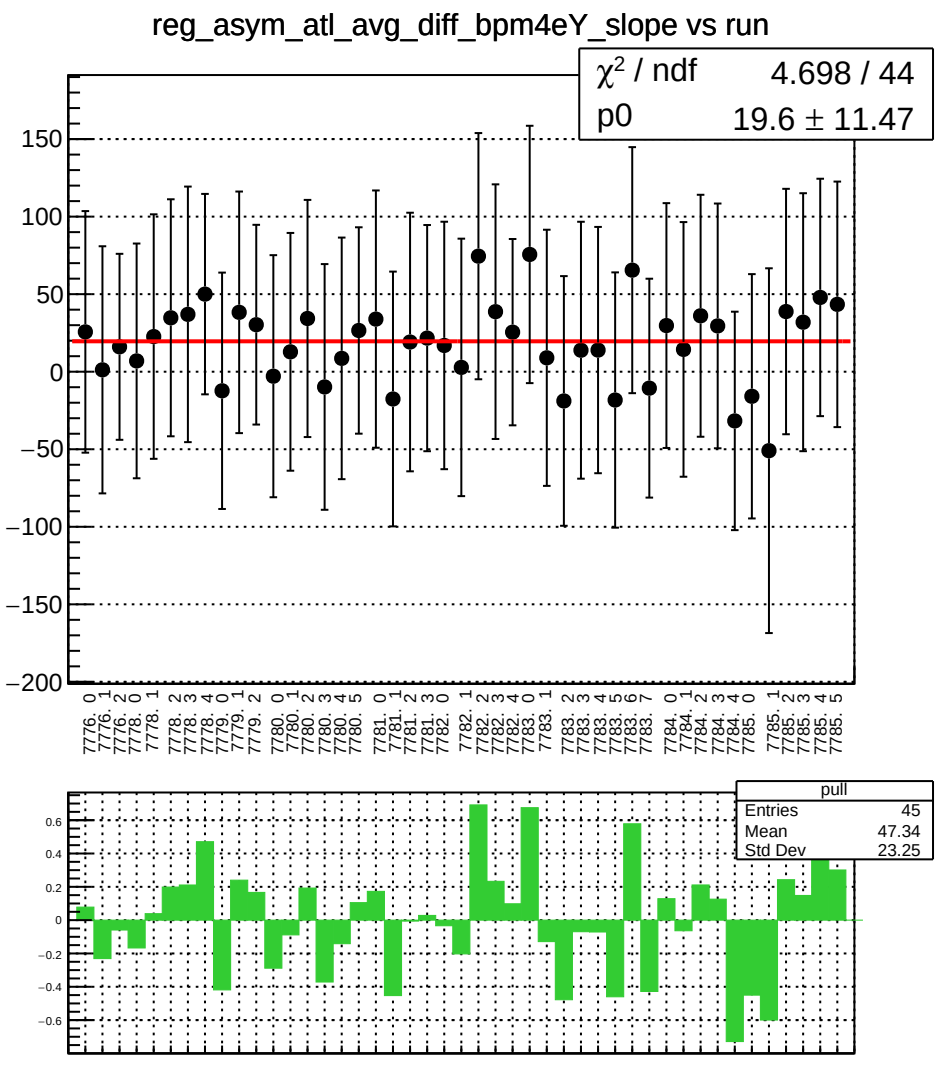

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 7.581 / 44
p0 −113.5 ± 9.959
pull
Entries 45
Mean 12.35
Std Dev 25.86

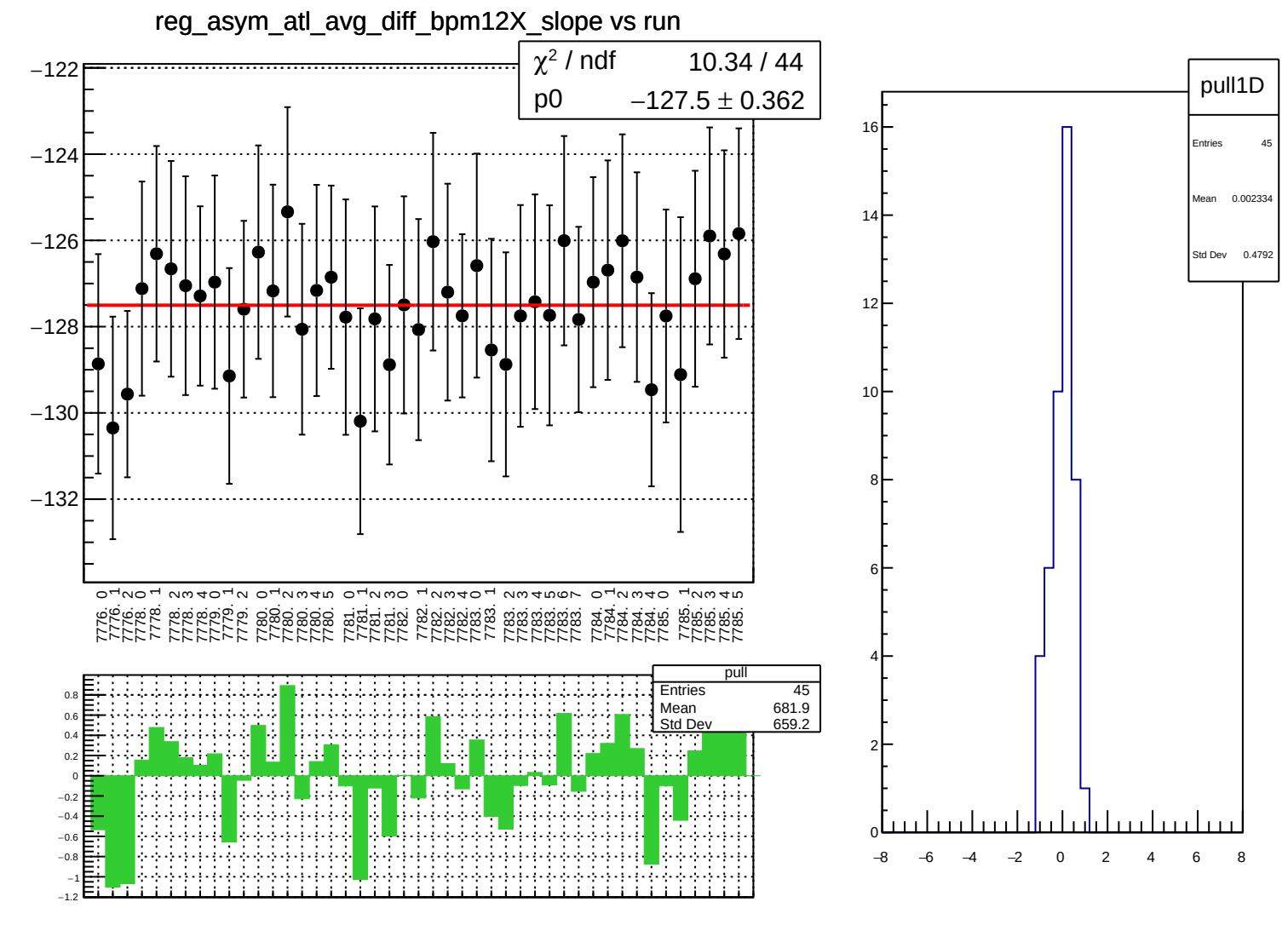

pull1D
Entries 45
Mean 0.01095
Std Dev 0.4103

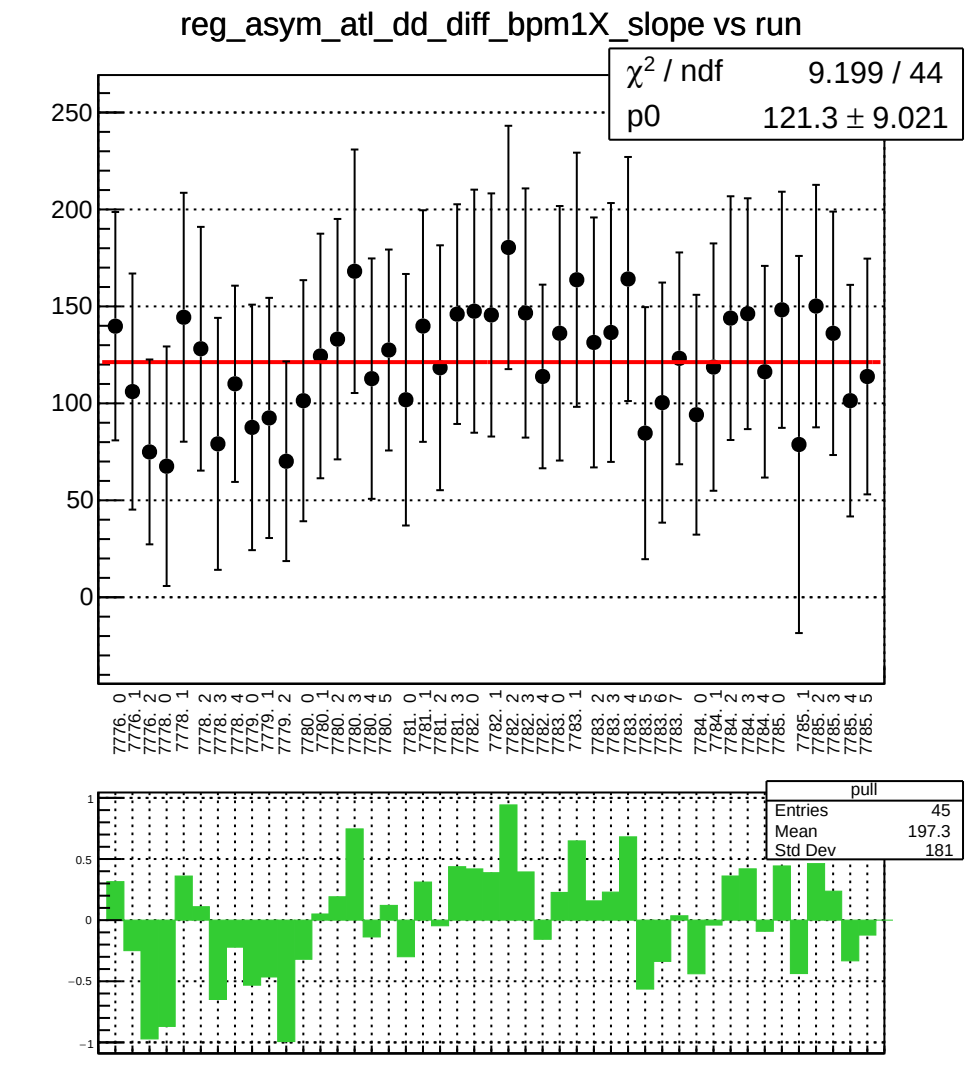

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.695 / 44
p0 35.5 ± 10.16
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 46.23
Std Dev 19.51
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.004902
Std Dev 0.323
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

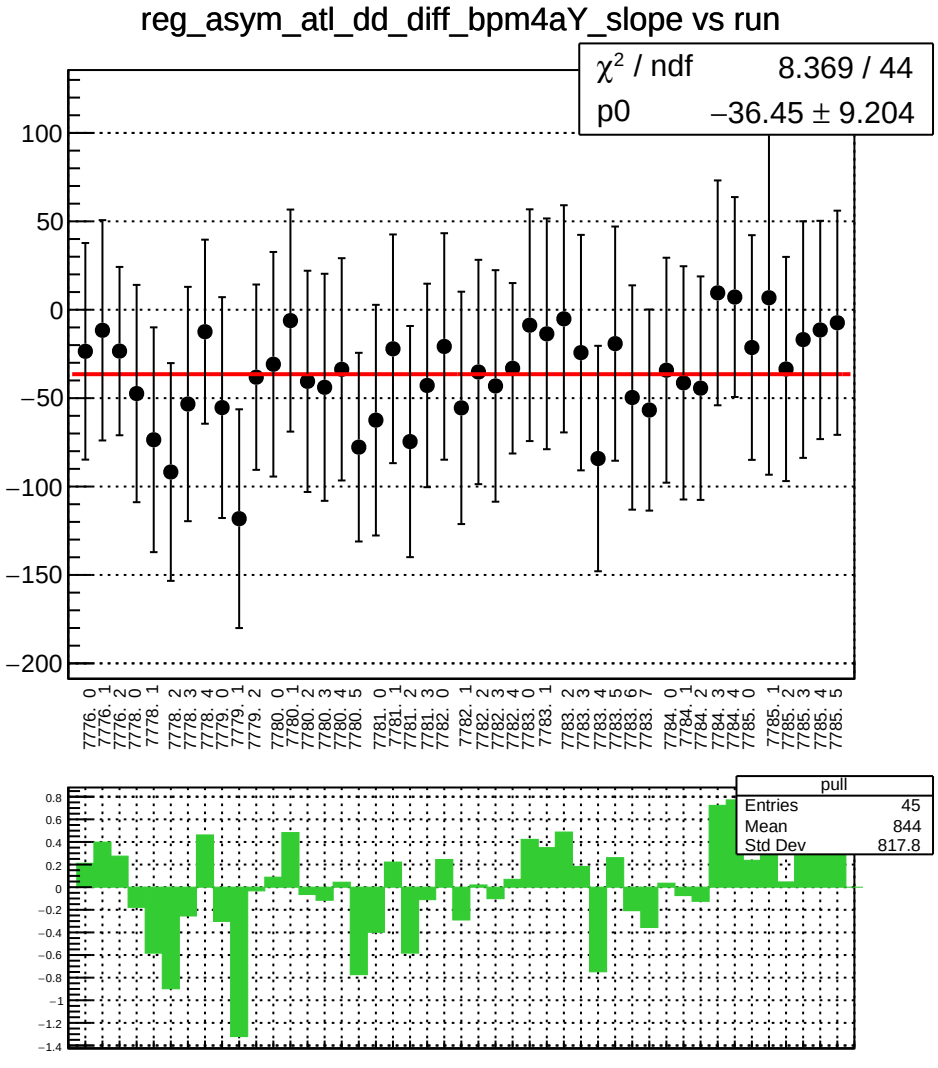

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.635 / 44
p0 87.66 ± 8.667
250
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 2.814
Std Dev 31.42
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

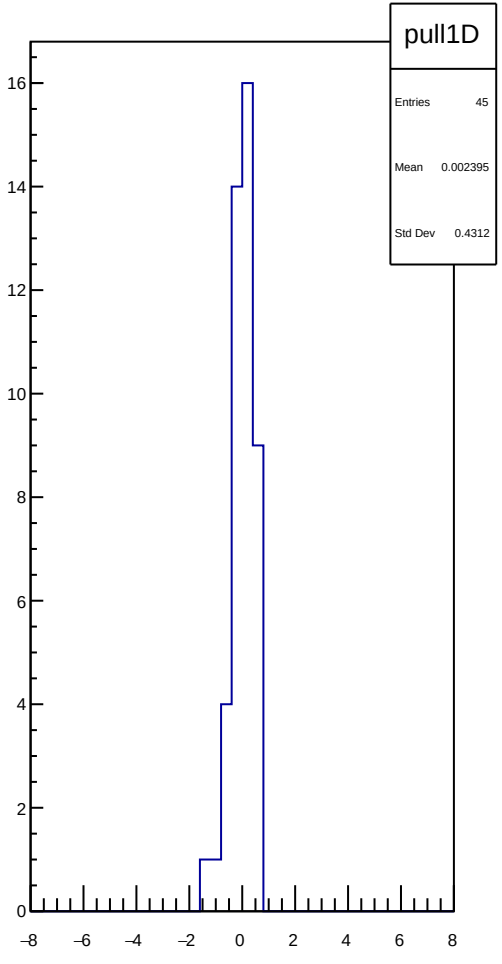

pull1D
Entries 45
Mean −0.01089
Std Dev 0.4118
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

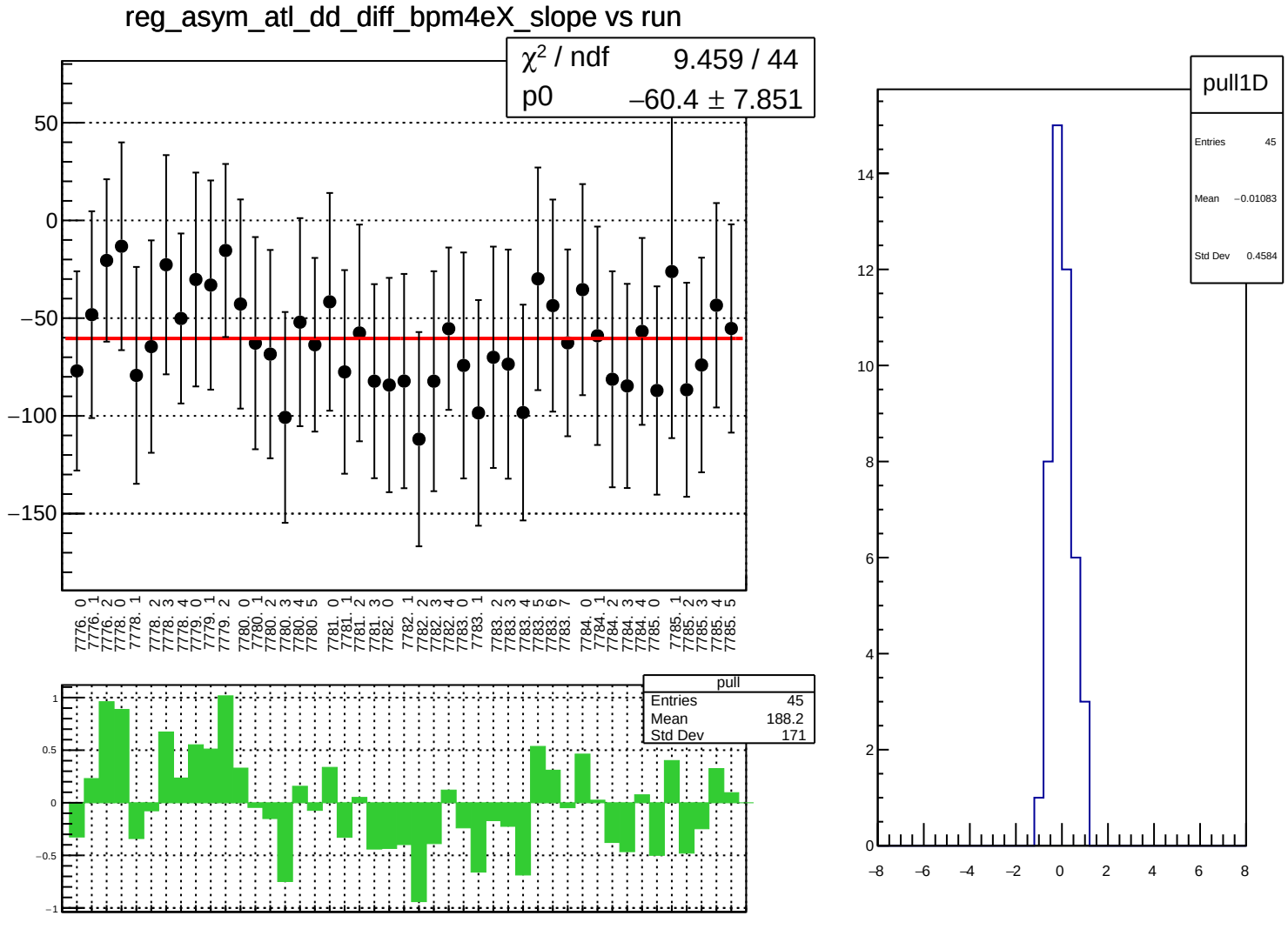

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.698 / 44
p0 19.6 ± 11.47
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 47.34
Std Dev 23.25
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.005144
Std Dev 0.3231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

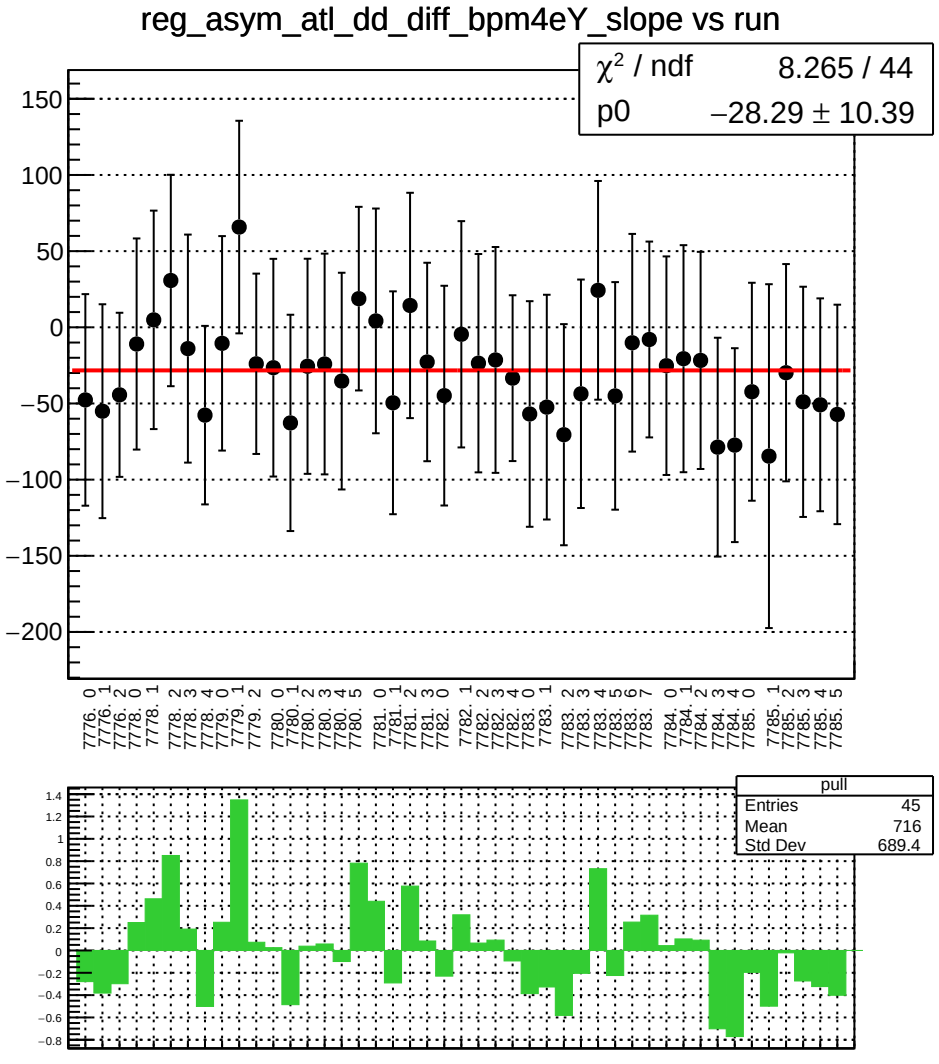

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 10.34 / 44
p0 −127.5 ± 0.362
pull
Entries 45
Mean 681.9
Std Dev 659.2
pull1D
Entries 45
Mean 0.002334
Std Dev 0.4792

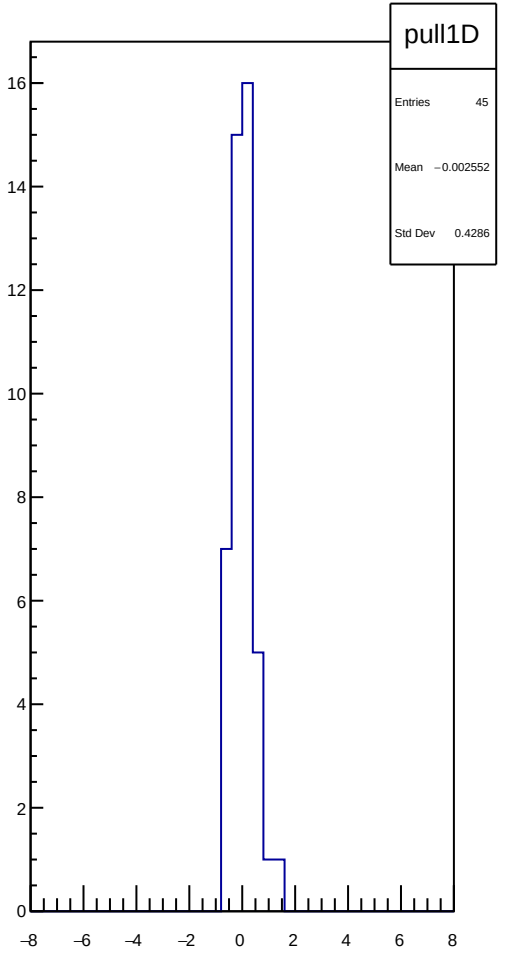

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 9.199 / 44
p0 121.3 ± 9.021
250
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 197.3
Std Dev 181
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean 0.009233
Std Dev 0.452
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

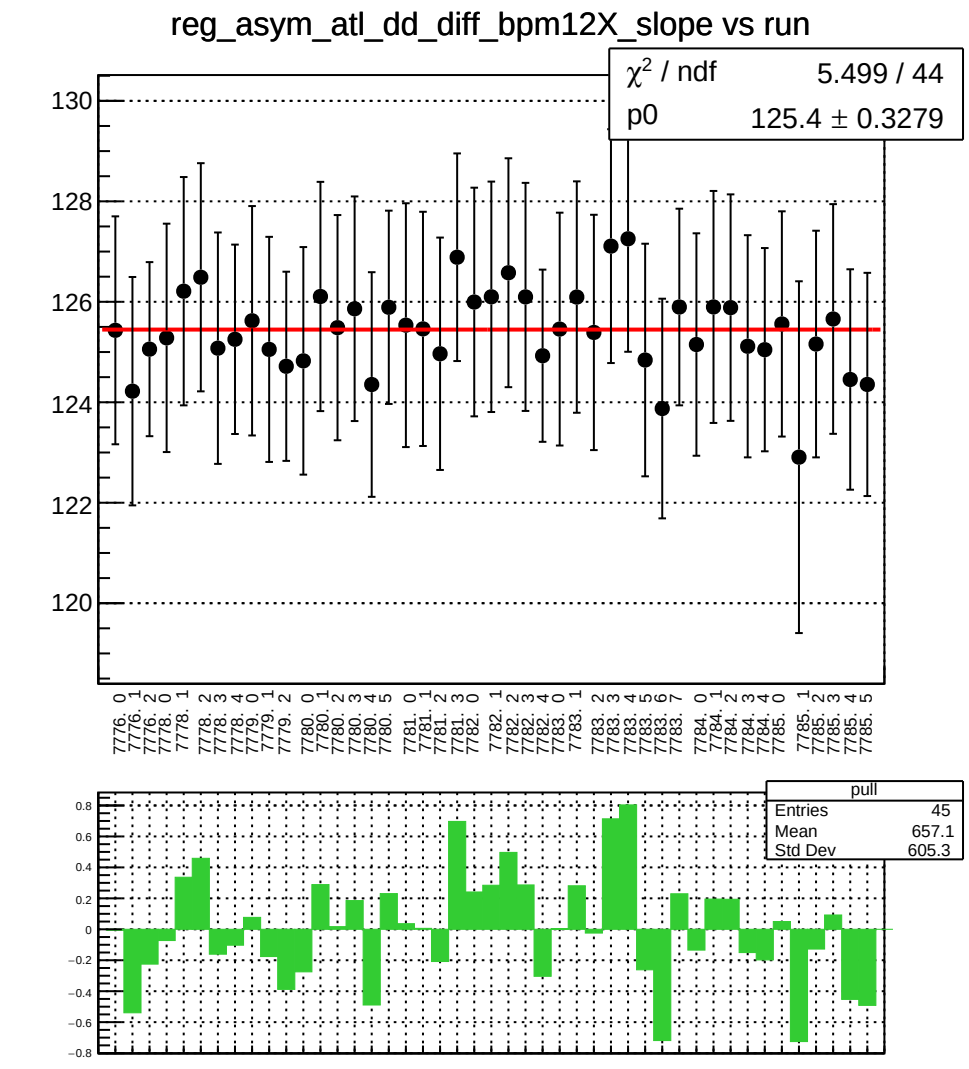

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.369 / 44
p0 −36.45 ± 9.204
pull
Entries 45
Mean 844
Std Dev 817.8

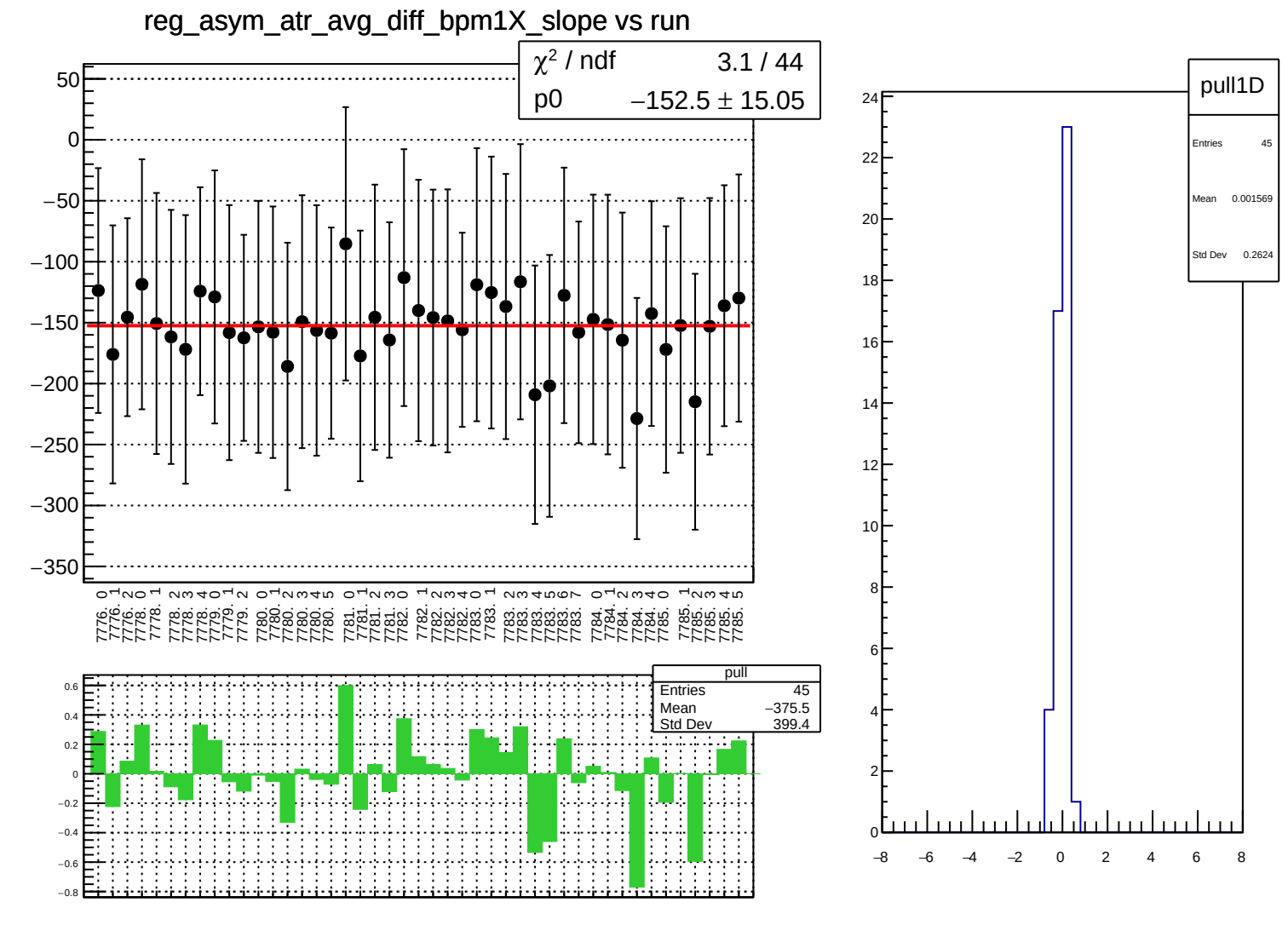

pull1D
Entries 45
Mean 0.002395
Std Dev 0.4312

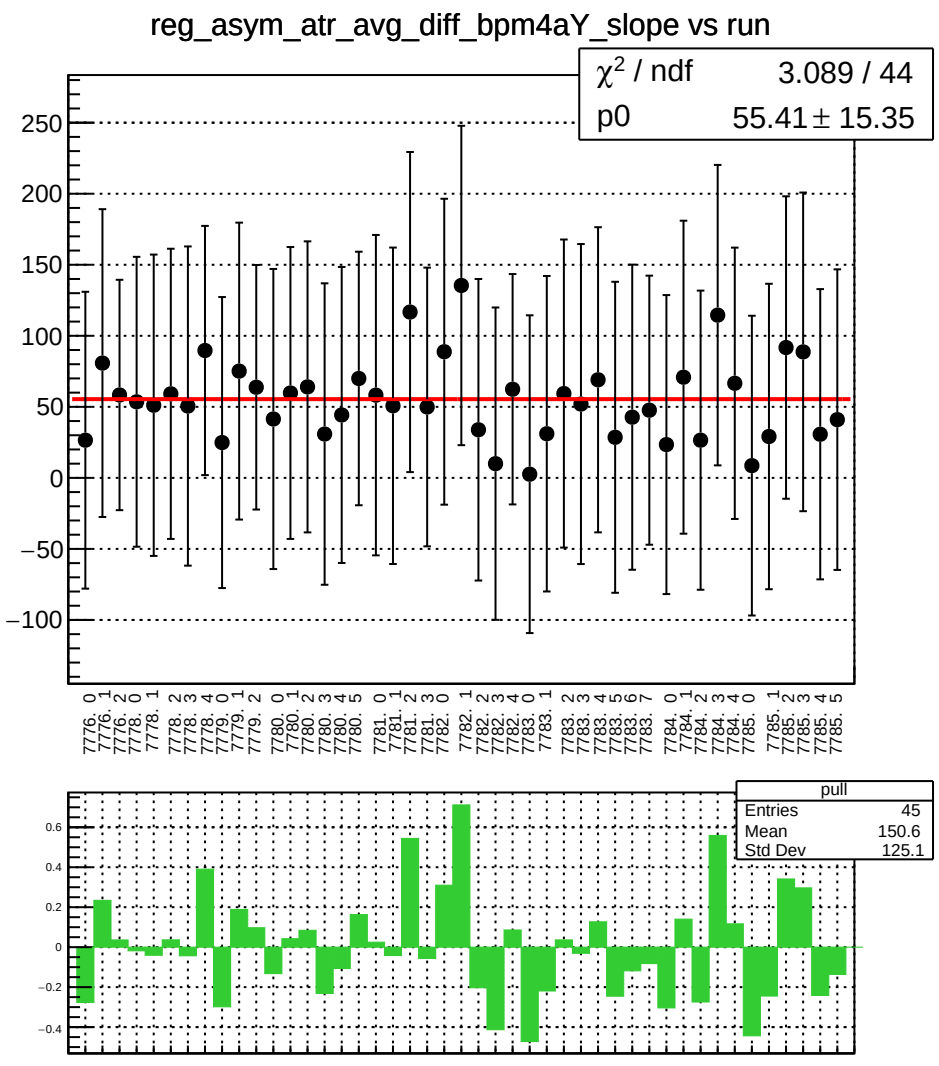

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.459 / 44
p0 −60.4 ± 7.851
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 188.2
Std Dev 171
1
0.5
0
−0.5
−1
pull1D
Entries 45
Mean −0.01083
Std Dev 0.4584
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

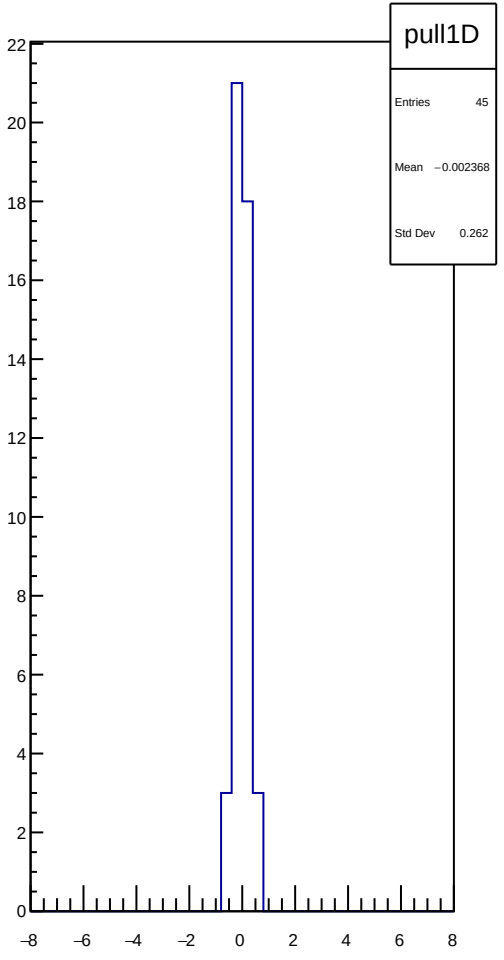

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.265 / 44
p0 −28.29 ± 10.39
pull
Entries 45
Mean 716
Std Dev 689.4

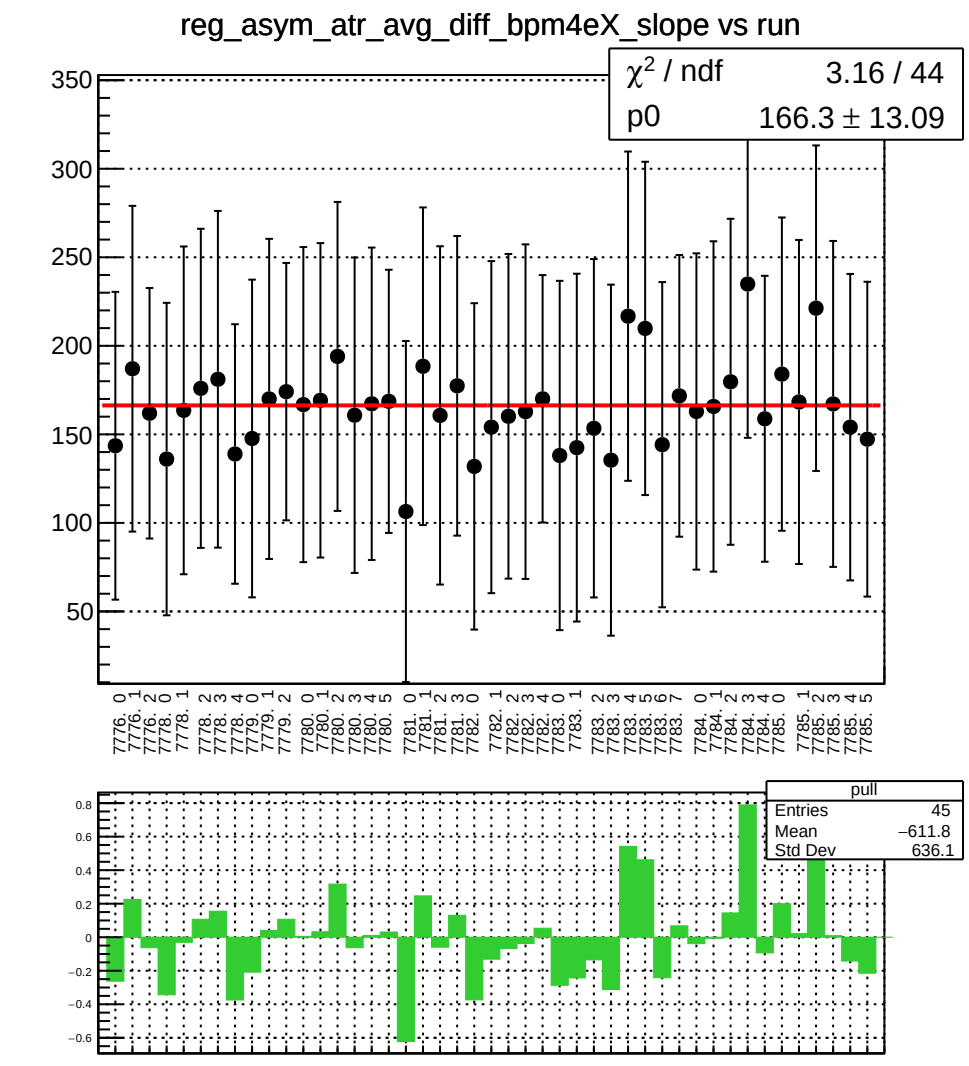

pull1D
Entries 45
Mean −0.002552
Std Dev 0.4286

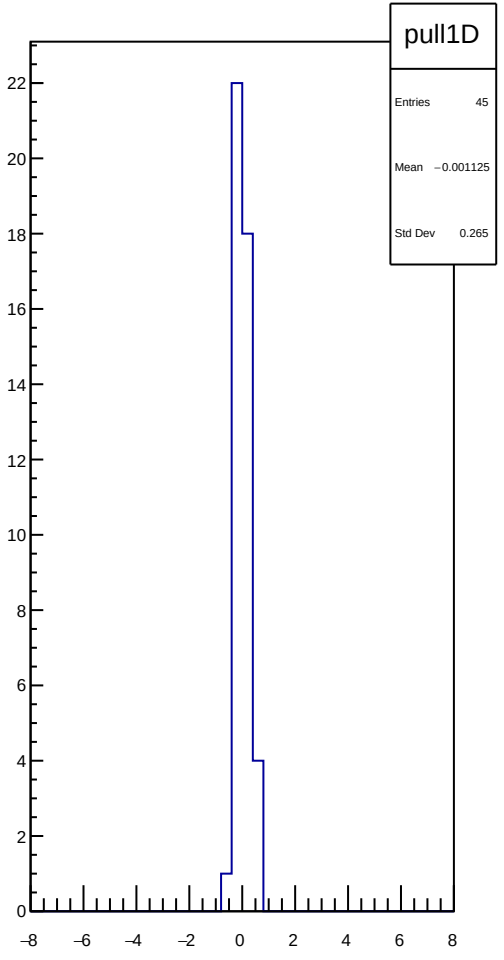

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 5.499 / 44
p0 125.4 ± 0.3279
130
128
126
124
122
120
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 657.1
Std Dev 605.3
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean −0.0005689
Std Dev 0.3496
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

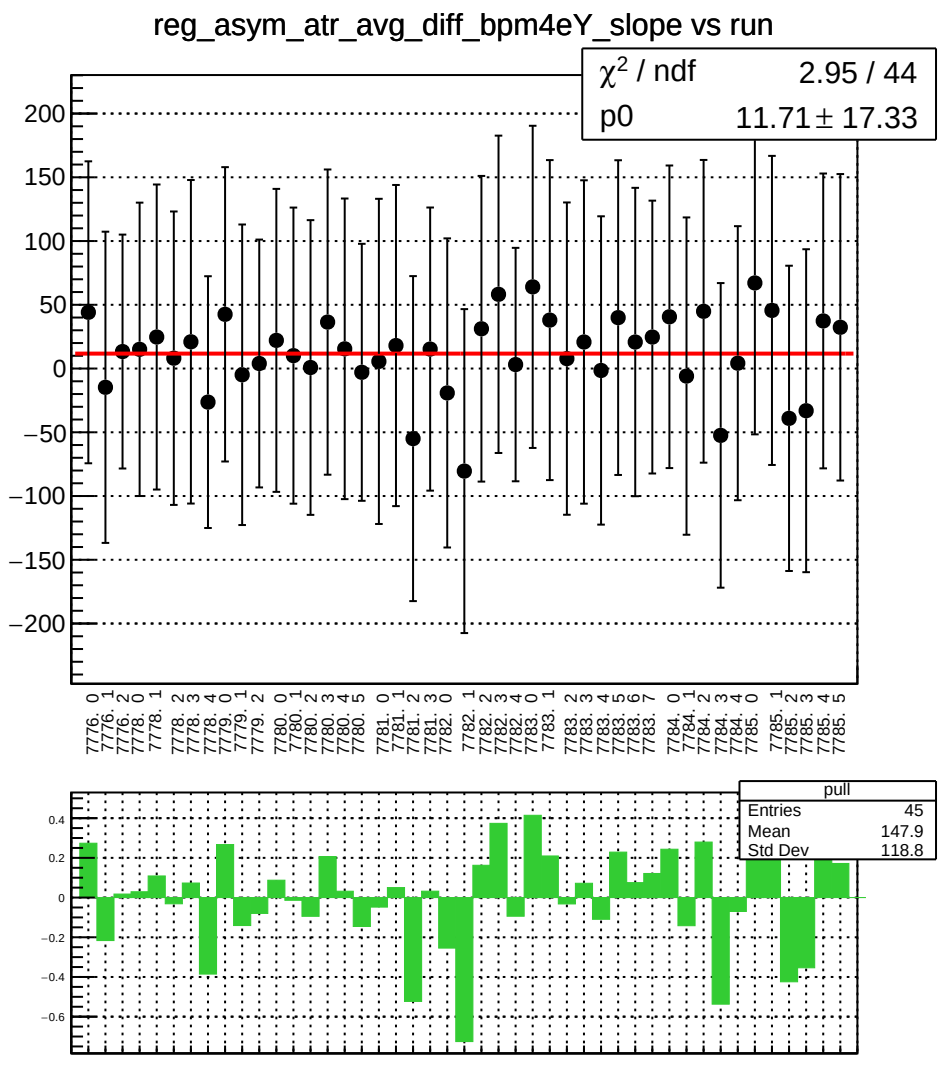

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 3.1 / 44
p0 −152.5 ± 15.05
pull
Entries 45
Mean −375.5
Std Dev 399.4
pull1D
Entries 45
Mean 0.001569
Std Dev 0.2624

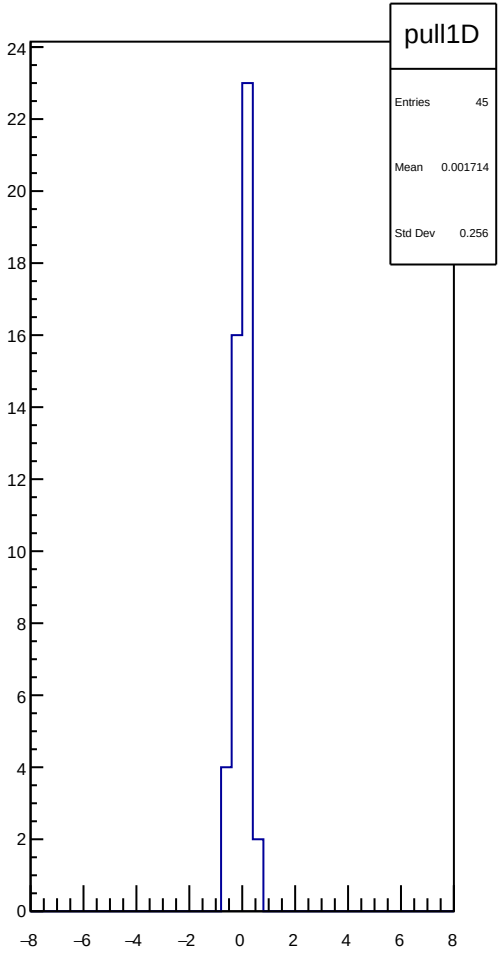

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.089 / 44
p0 55.41 ± 15.35
pull
Entries 45
Mean 150.6
Std Dev 125.1

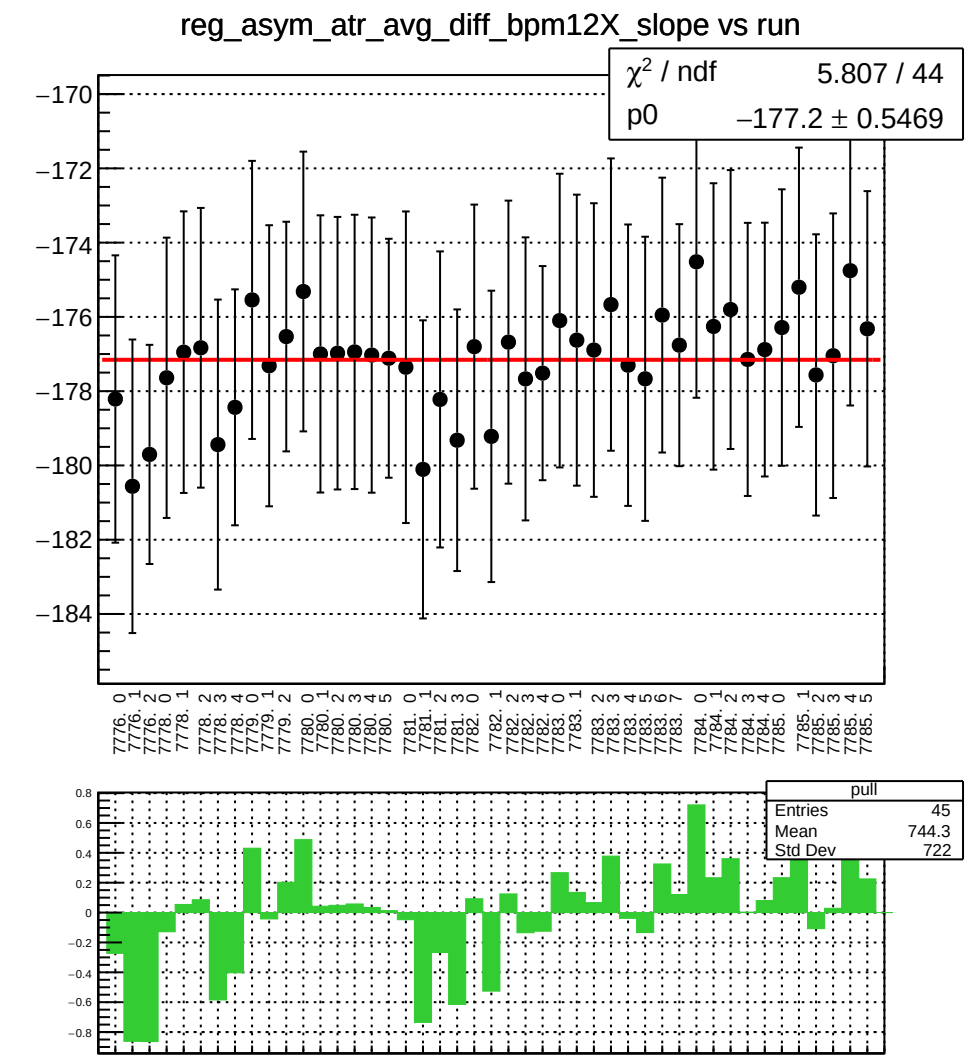

pull1D
Entries 45
Mean −0.002368
Std Dev 0.262

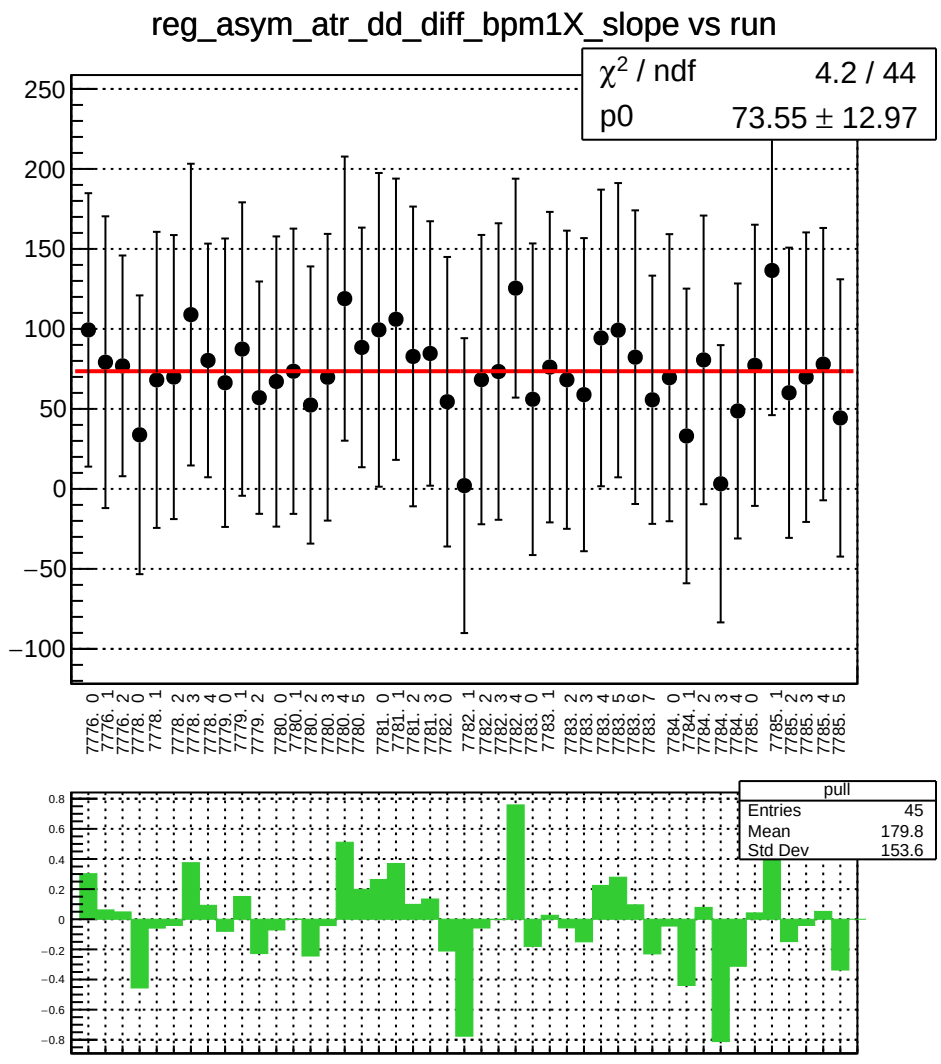

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.16 / 44
p0 166.3 ± 13.09
pull
Entries 45
Mean −611.8
Std Dev 636.1

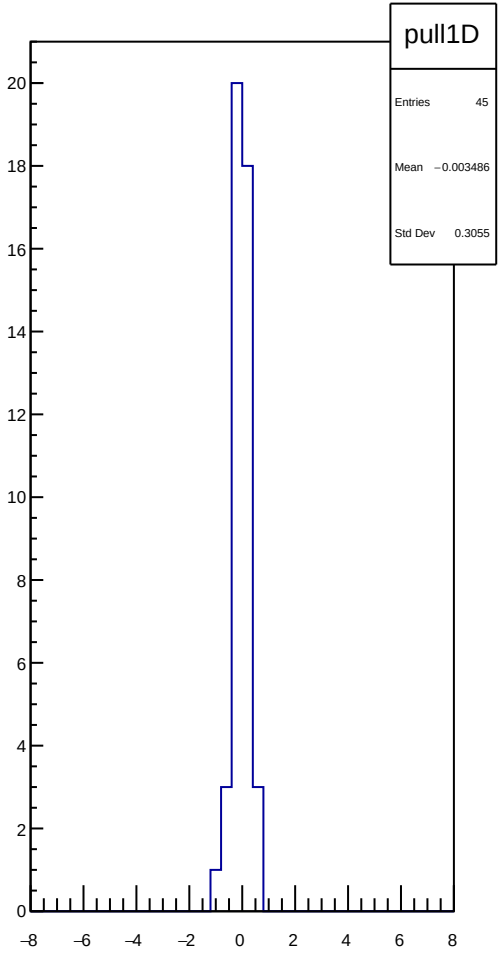

pull1D
Entries 45
Mean −0.001125
Std Dev 0.265

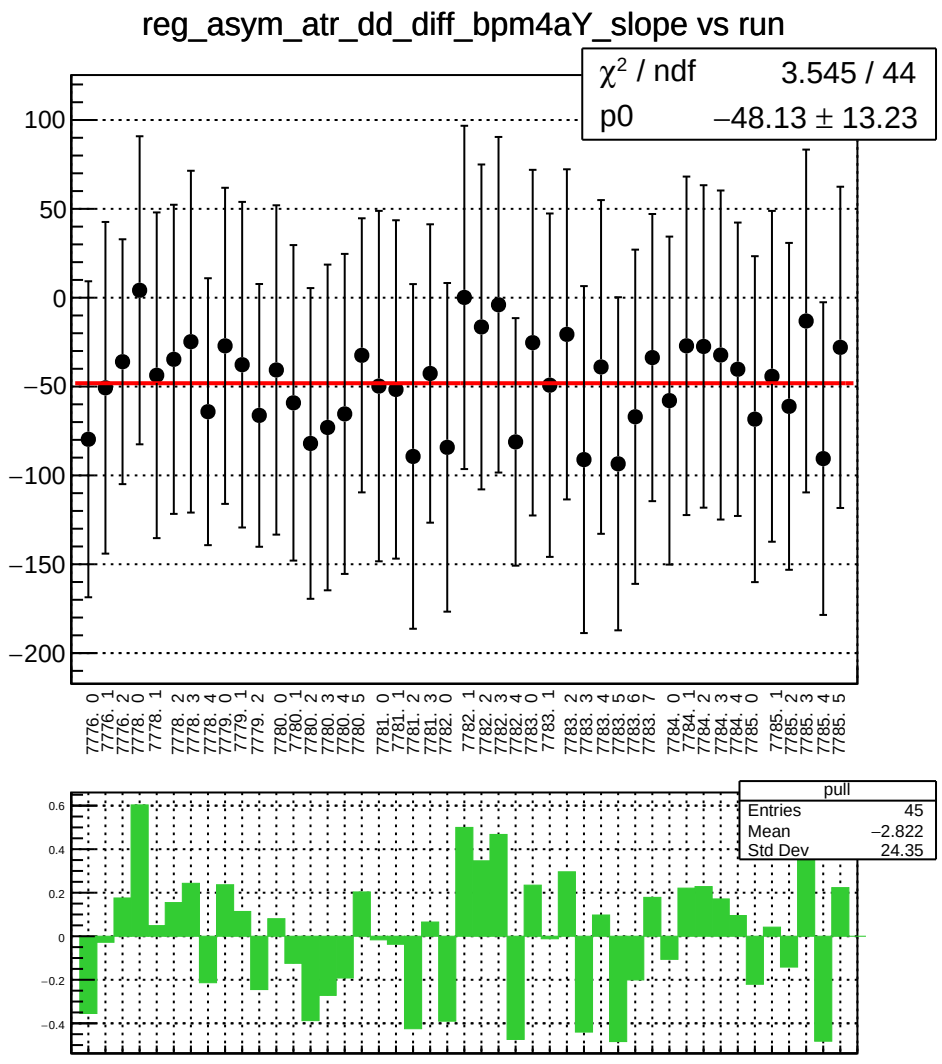

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.95 / 44
p0 11.71 ± 17.33
pull
Entries 45
Mean 147.9
Std Dev 118.8

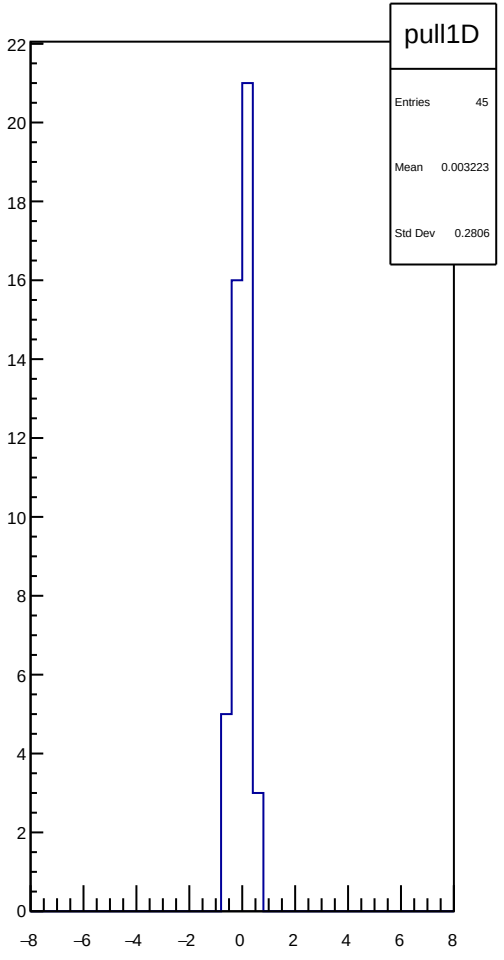

pull1D
Entries 45
Mean 0.001714
Std Dev 0.256

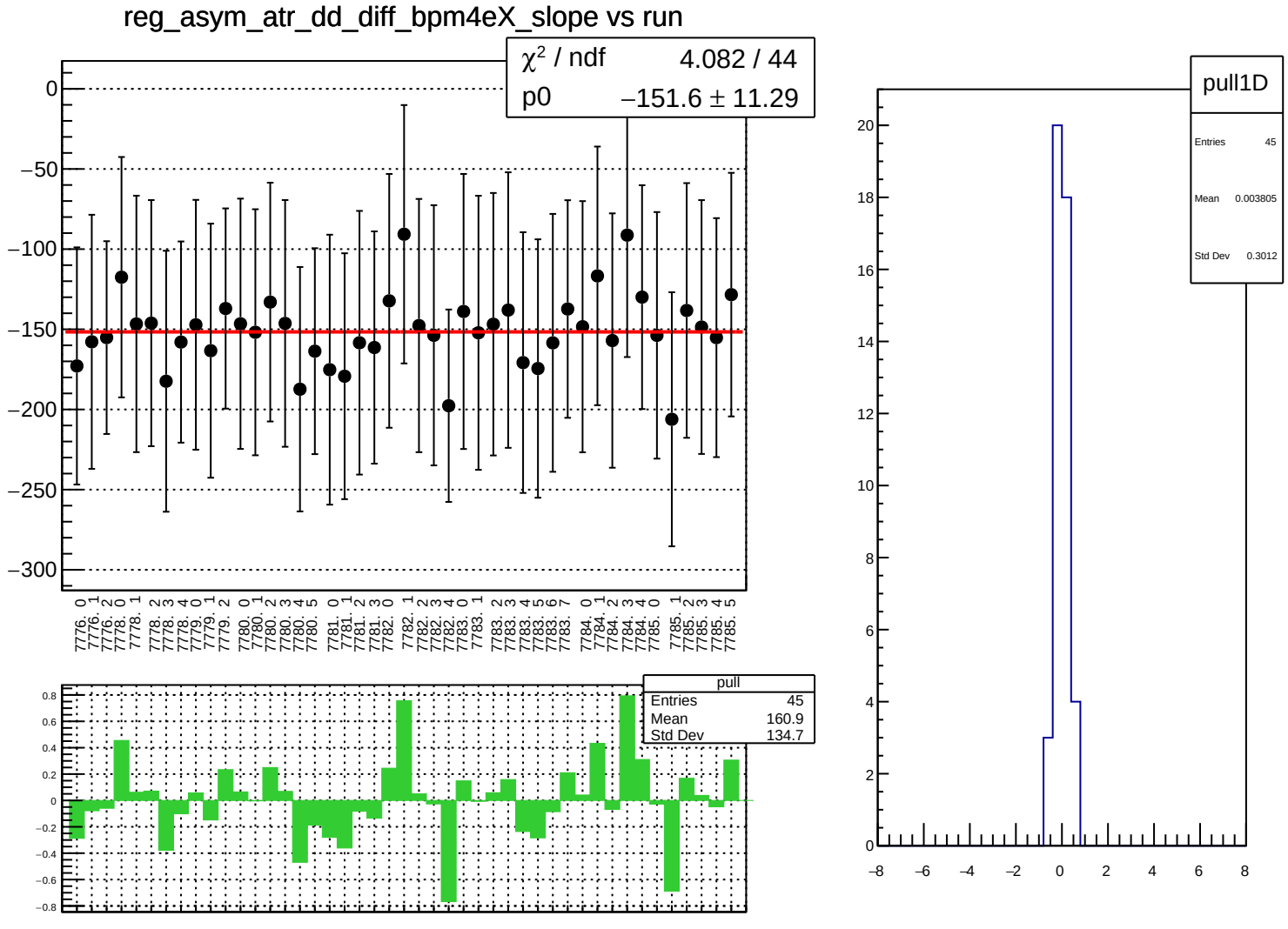

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 5.807 / 44
p0 −177.2 ± 0.5469
−170
−172
−174
−176
−178
−180
−182
−184
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 744.3
Std Dev 722
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.003173
Std Dev 0.3592
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

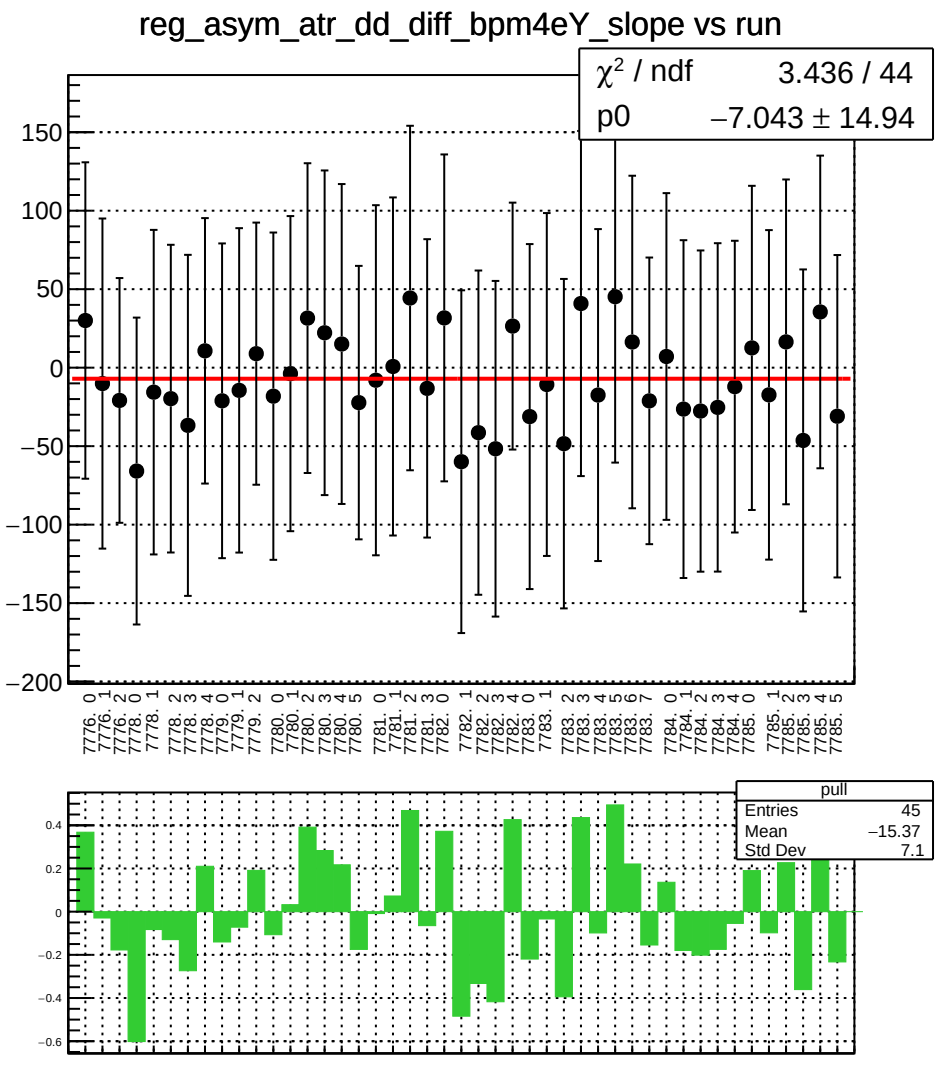

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 4.2 / 44
p0 73.55 ± 12.97
pull
Entries 45
Mean 179.8
Std Dev 153.6

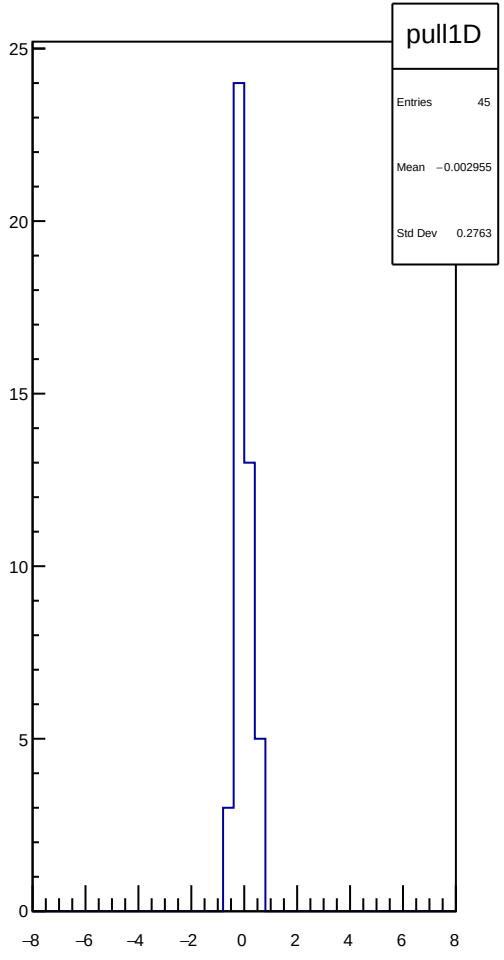

pull1D
Entries 45
Mean −0.003486
Std Dev 0.3055

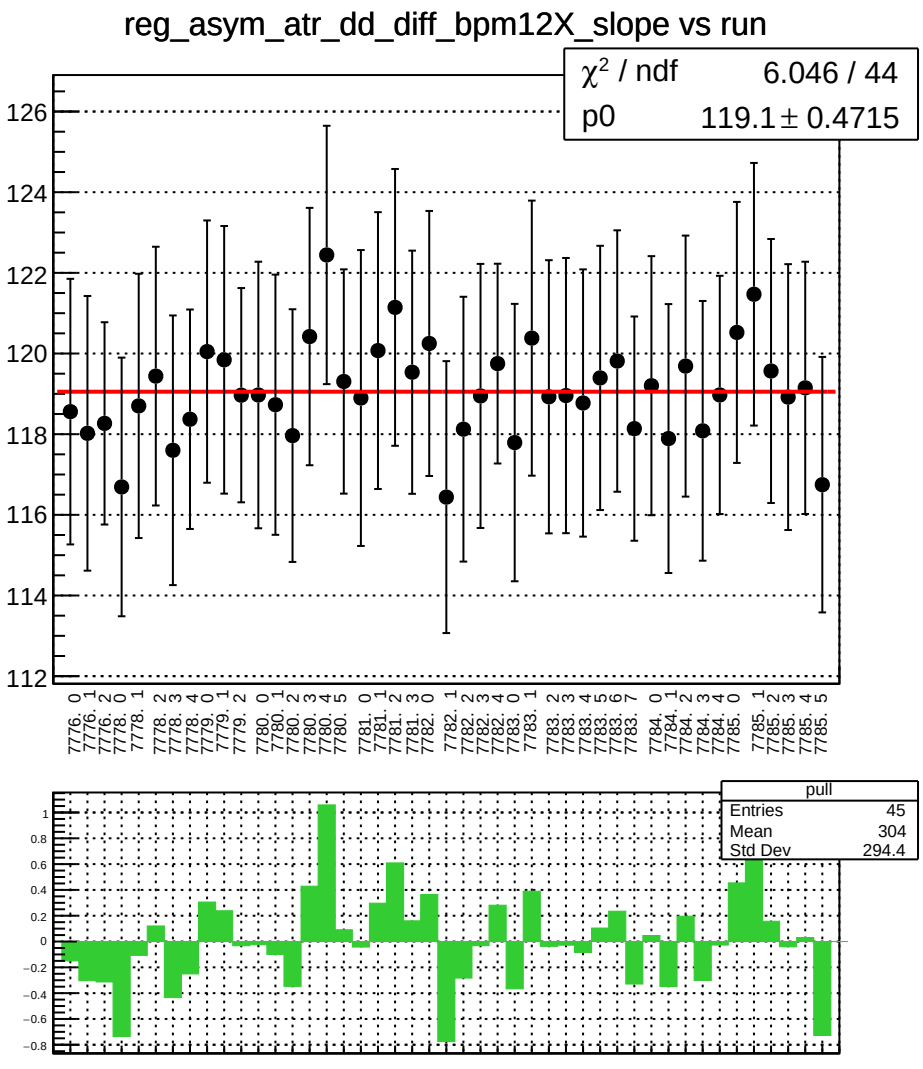

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.545 / 44
p0 −48.13 ± 13.23
pull
Entries 45
Mean −2.822
Std Dev 24.35

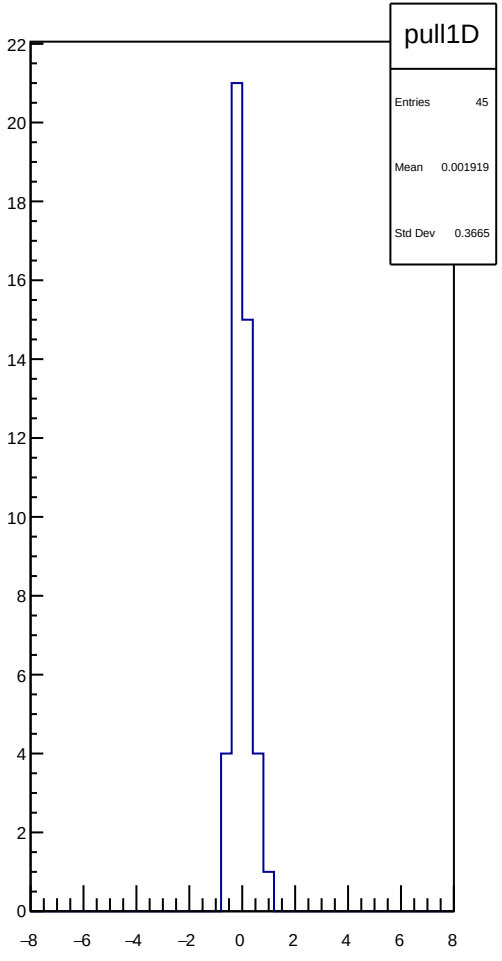

pull1D
Entries 45
Mean 0.003223
Std Dev 0.2806

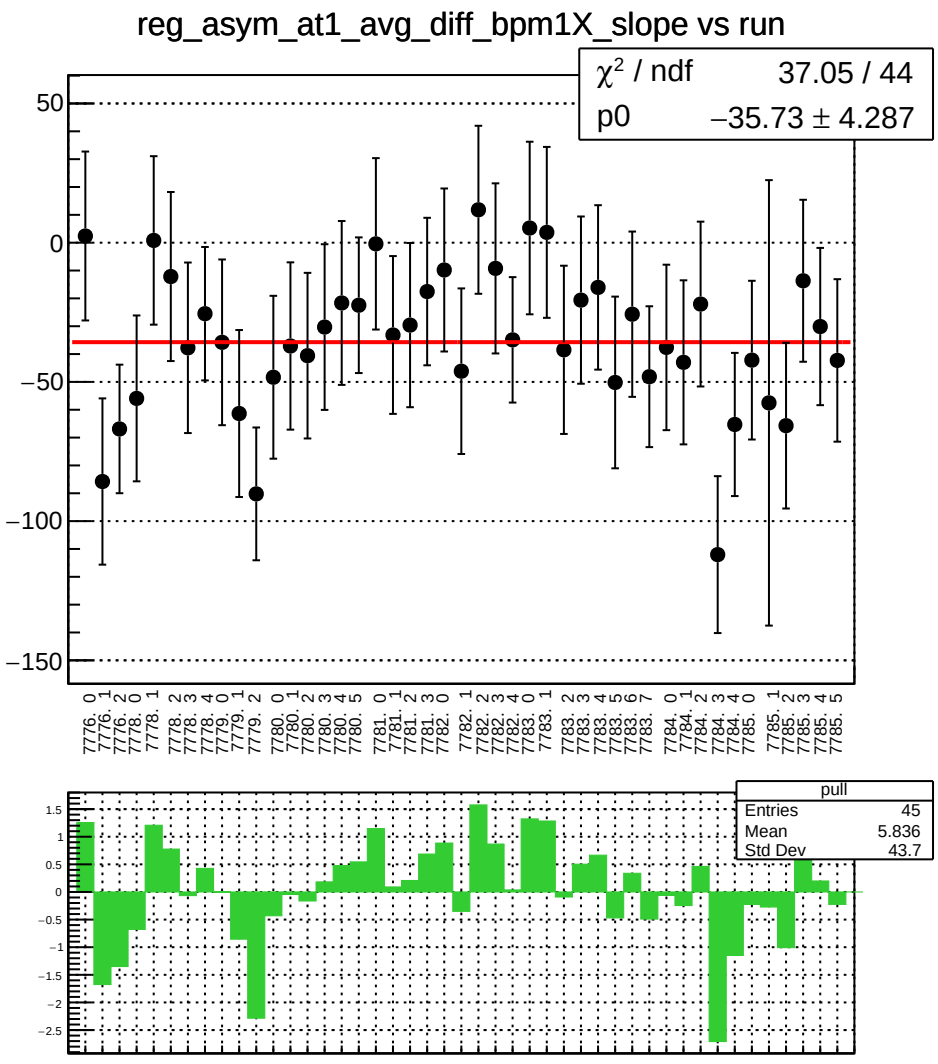

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.082 / 44
p0 −151.6 ± 11.29
pull
Entries 45
Mean 160.9
Std Dev 134.7
pull1D
Entries 45
Mean 0.003805
Std Dev 0.3012

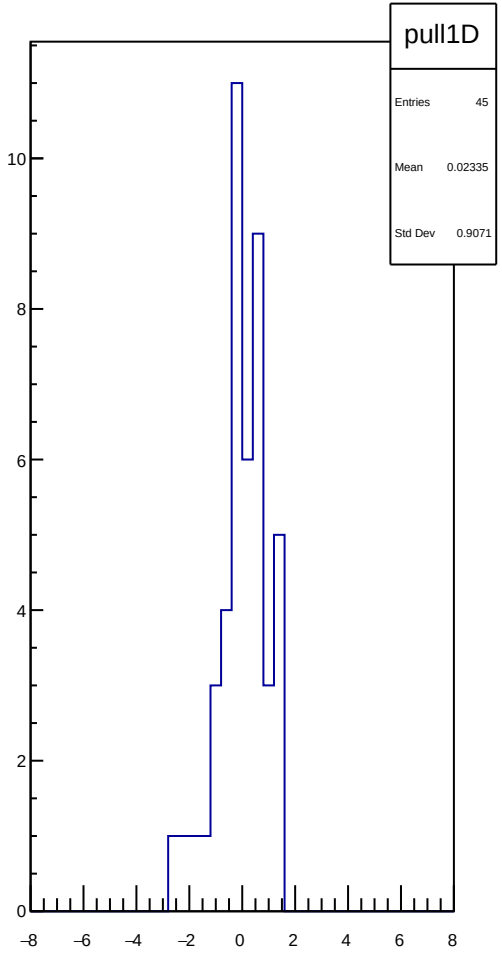

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.436 / 44
p0 −7.043 ± 14.94
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −15.37
Std Dev 7.1
0.4
0.2
0
−0.2
−0.4
−0.6

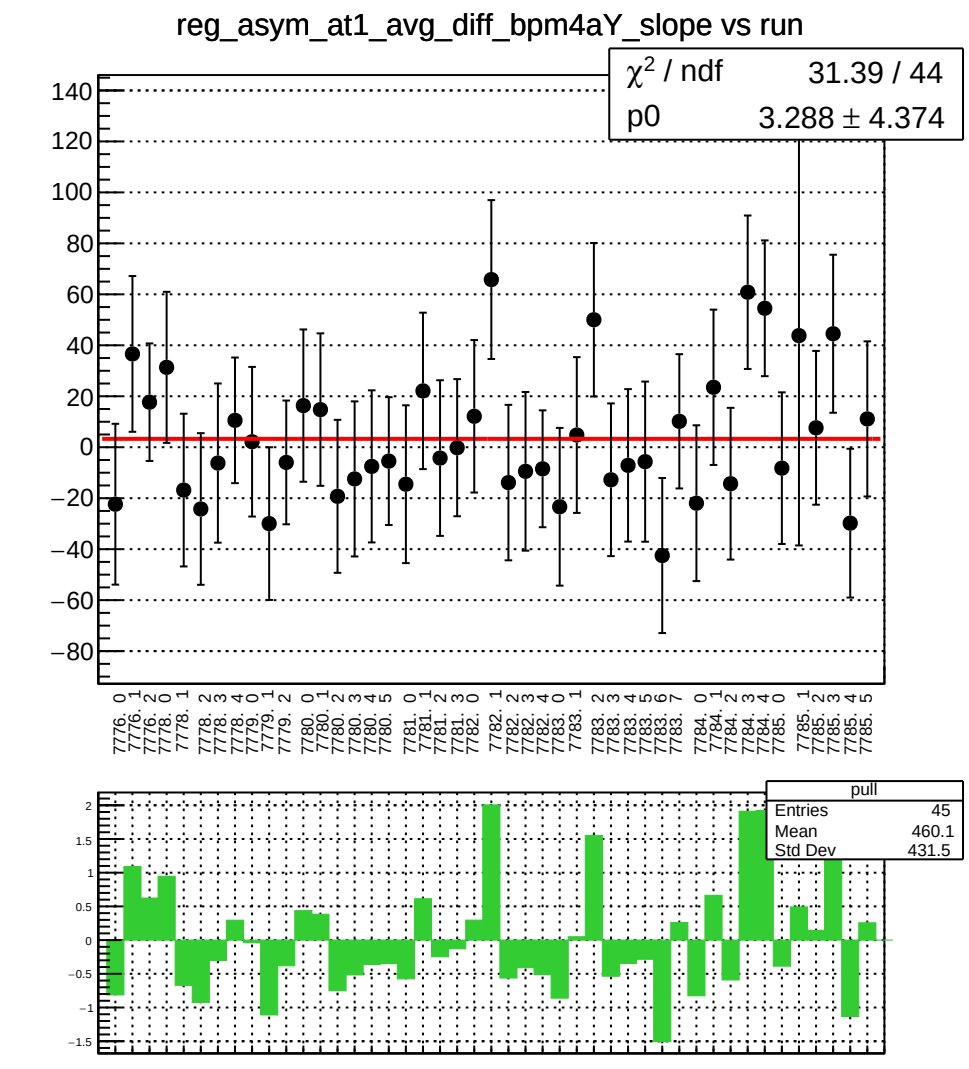

pull1D
Entries 45
Mean −0.002955
Std Dev 0.2763
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

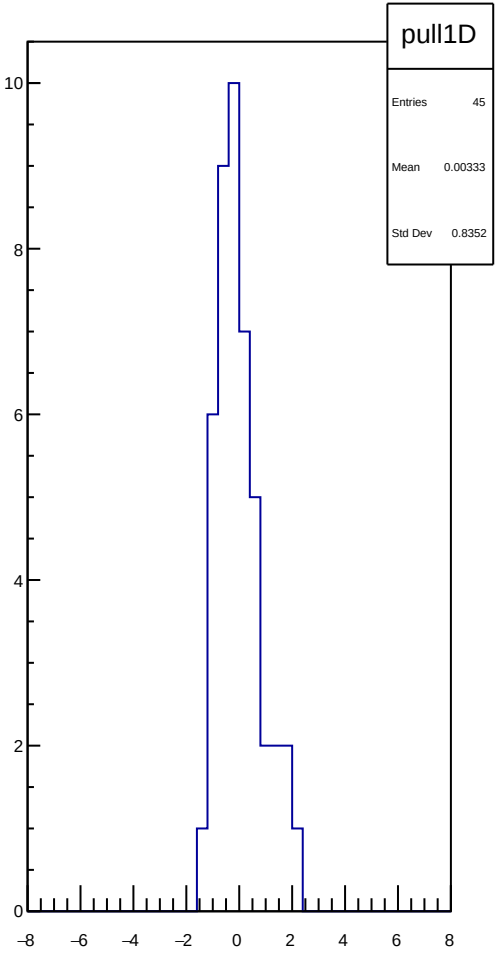

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 6.046 / 44
p0 119.1 ± 0.4715
pull
Entries 45
Mean 304
Std Dev 294.4

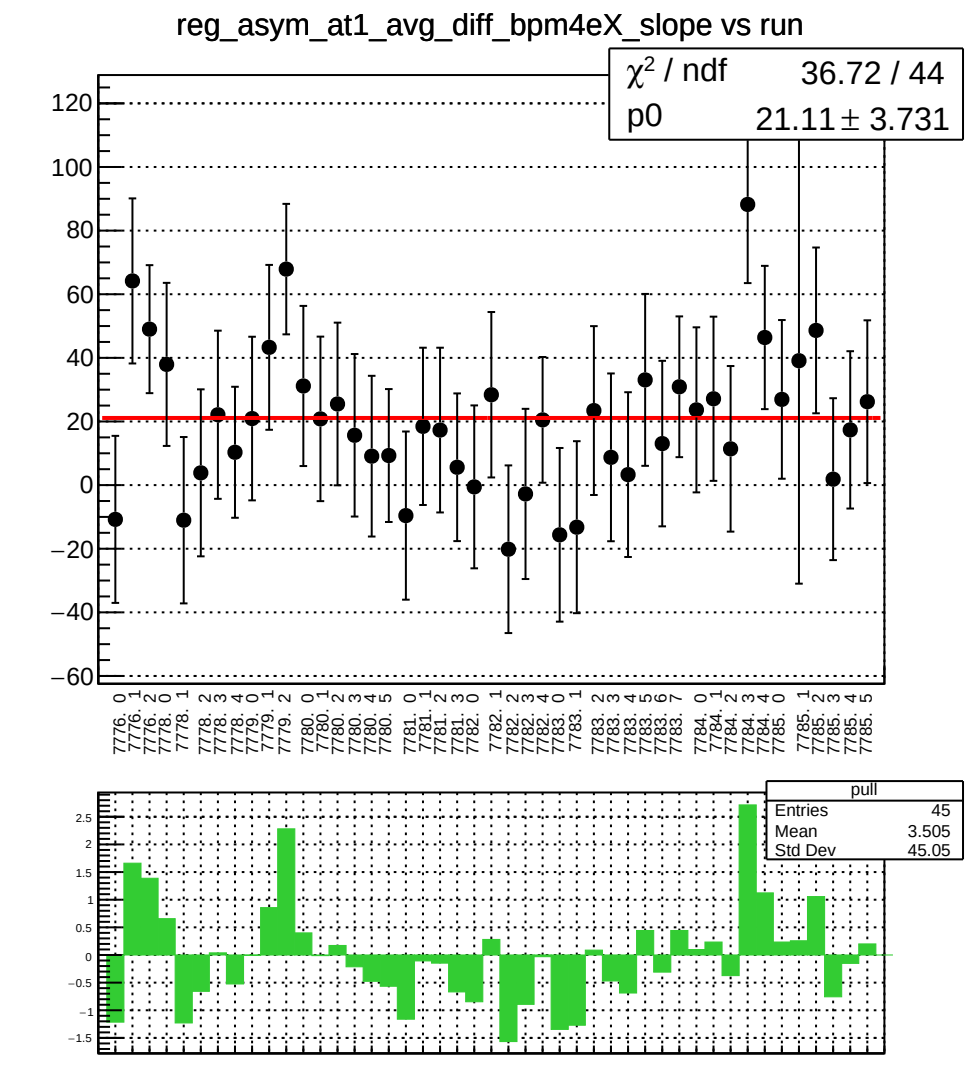

pull1D
Entries 45
Mean 0.001919
Std Dev 0.3665

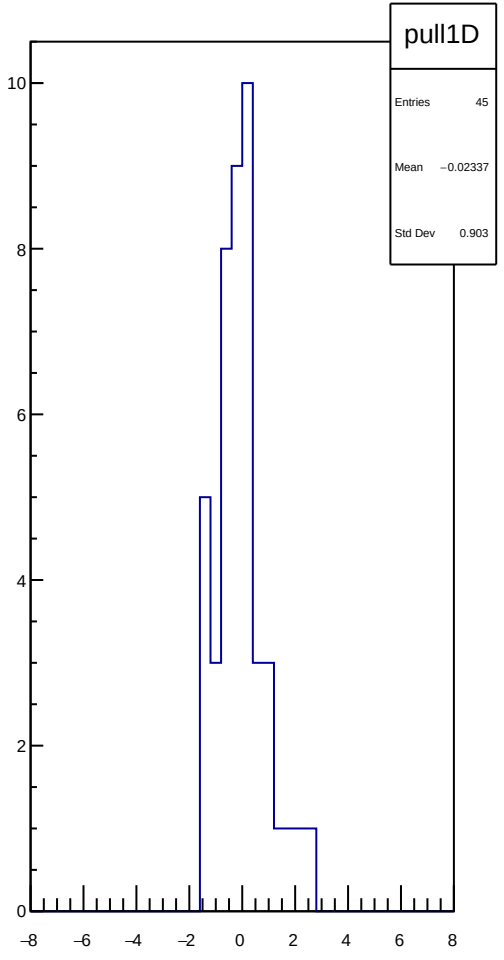

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 37.05 / 44
p0 −35.73 ± 4.287
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 5.836
Std Dev 43.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

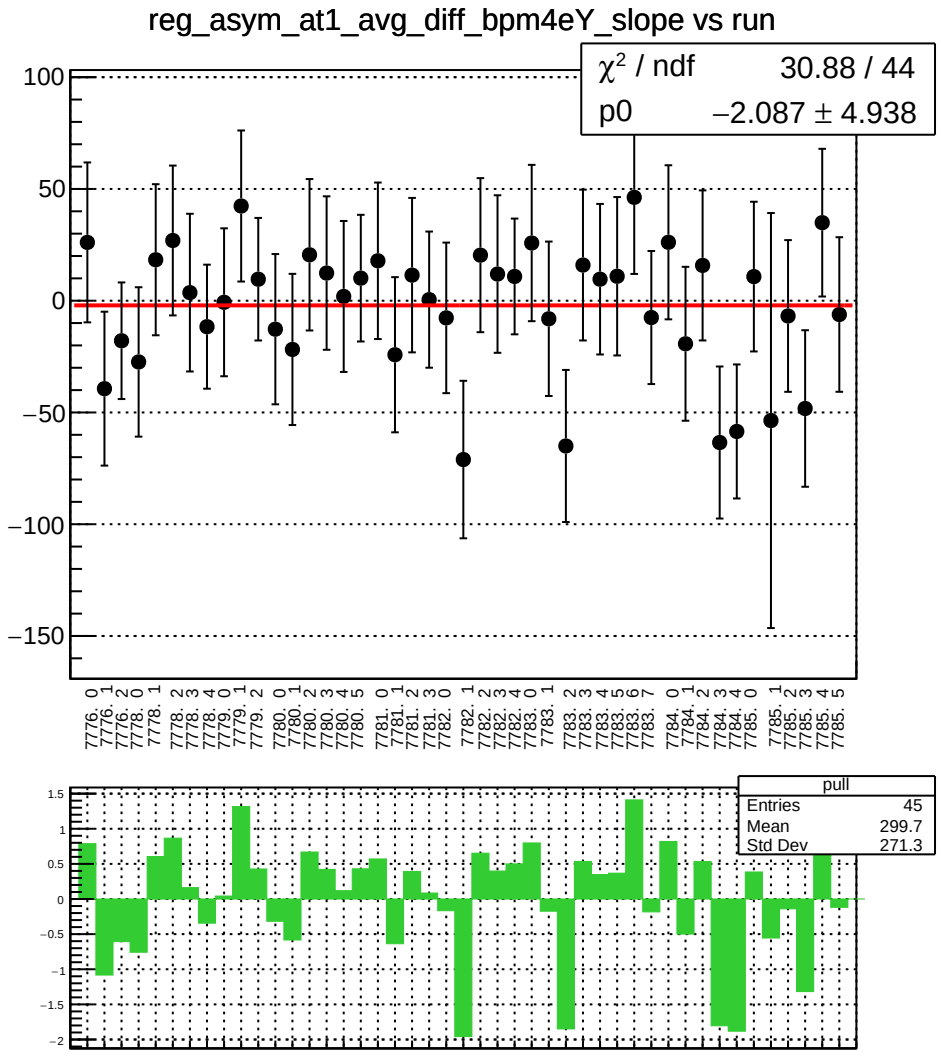

pull1D
Entries 45
Mean 0.02335
Std Dev 0.9071
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

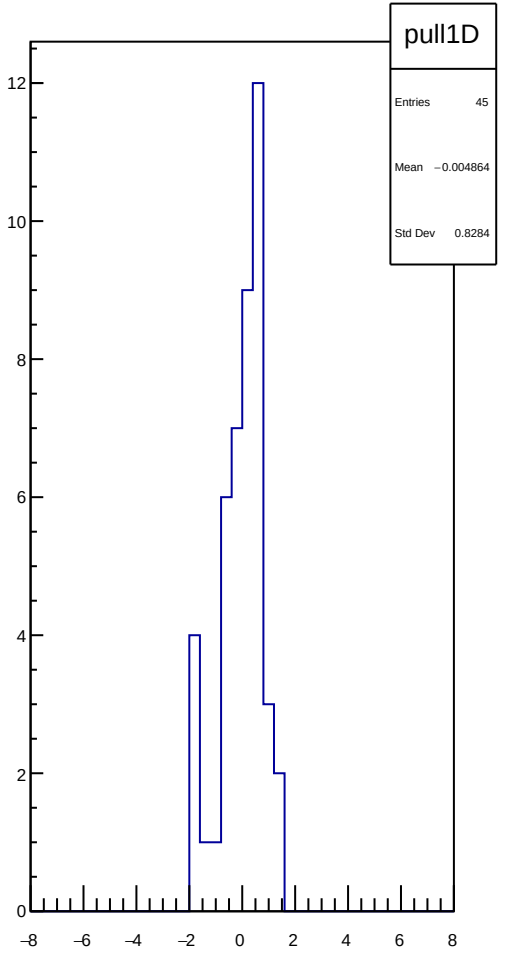

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.39 / 44
p0 3.288 ± 4.374
pull
Entries 45
Mean 460.1
Std Dev 431.5

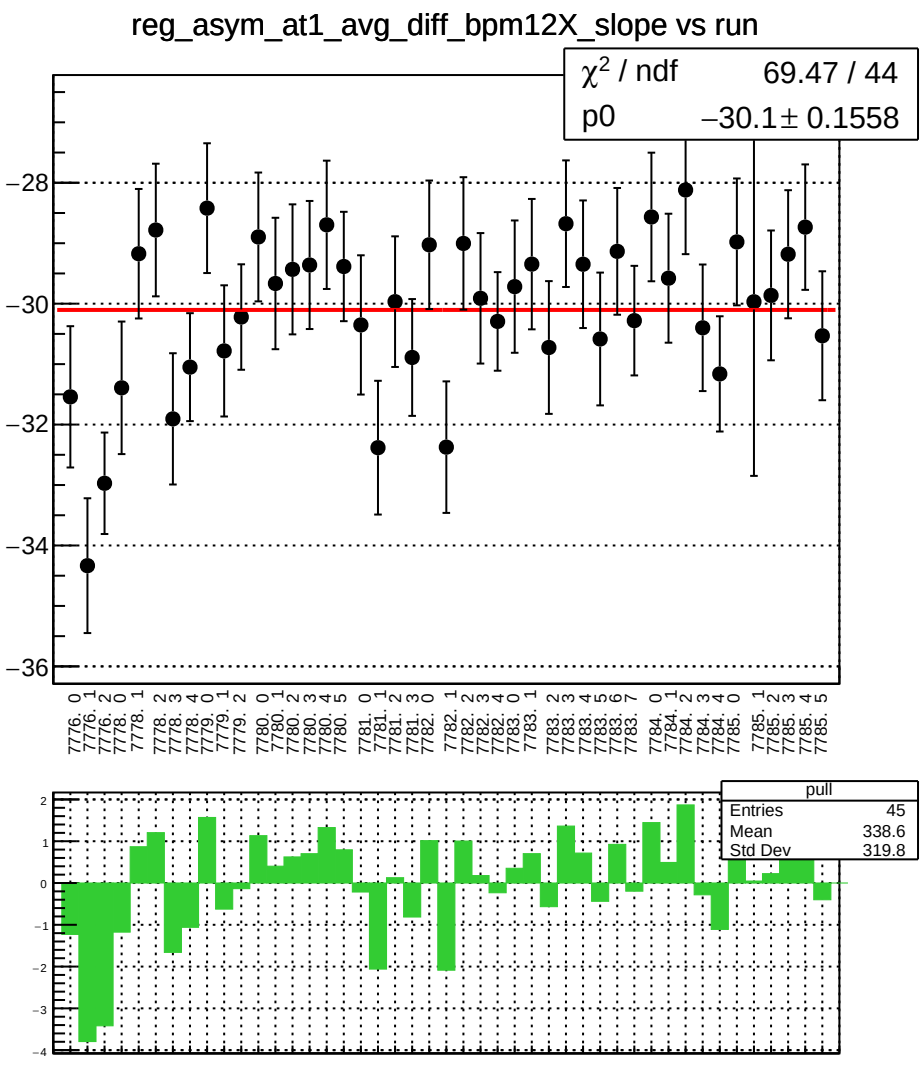

pull1D
Entries 45
Mean 0.00333
Std Dev 0.8352

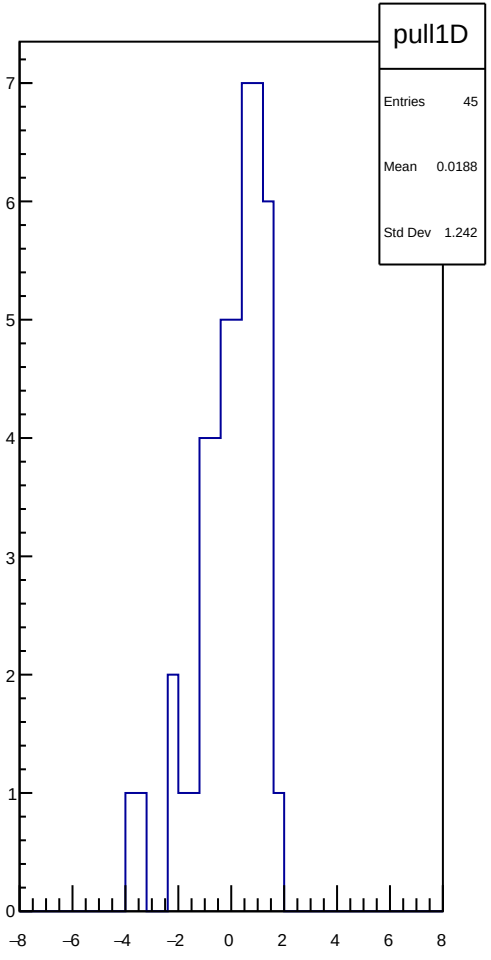

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.72 / 44
p0 21.11 ± 3.731
pull
Entries 45
Mean 3.505
Std Dev 45.05

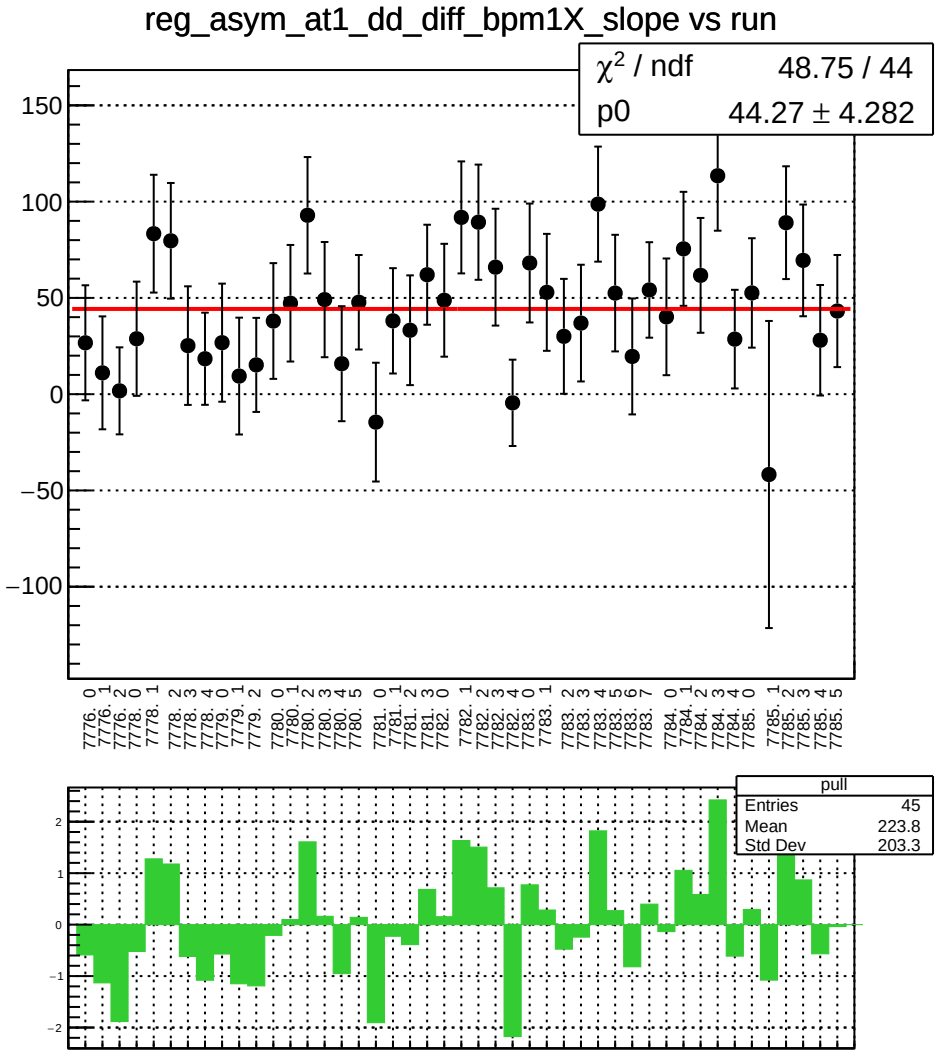

pull1D
Entries 45
Mean −0.02337
Std Dev 0.903

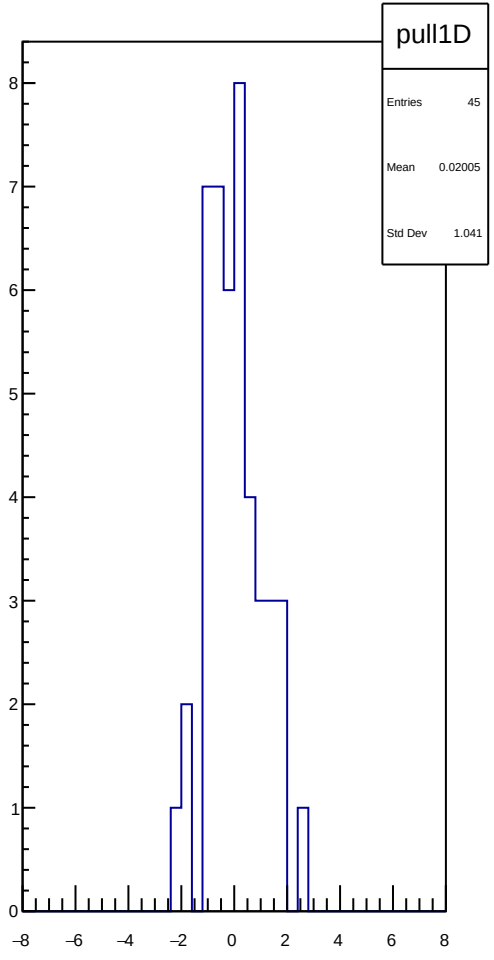

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.88 / 44
p0 −2.087 ± 4.938
pull
Entries 45
Mean 299.7
Std Dev 271.3

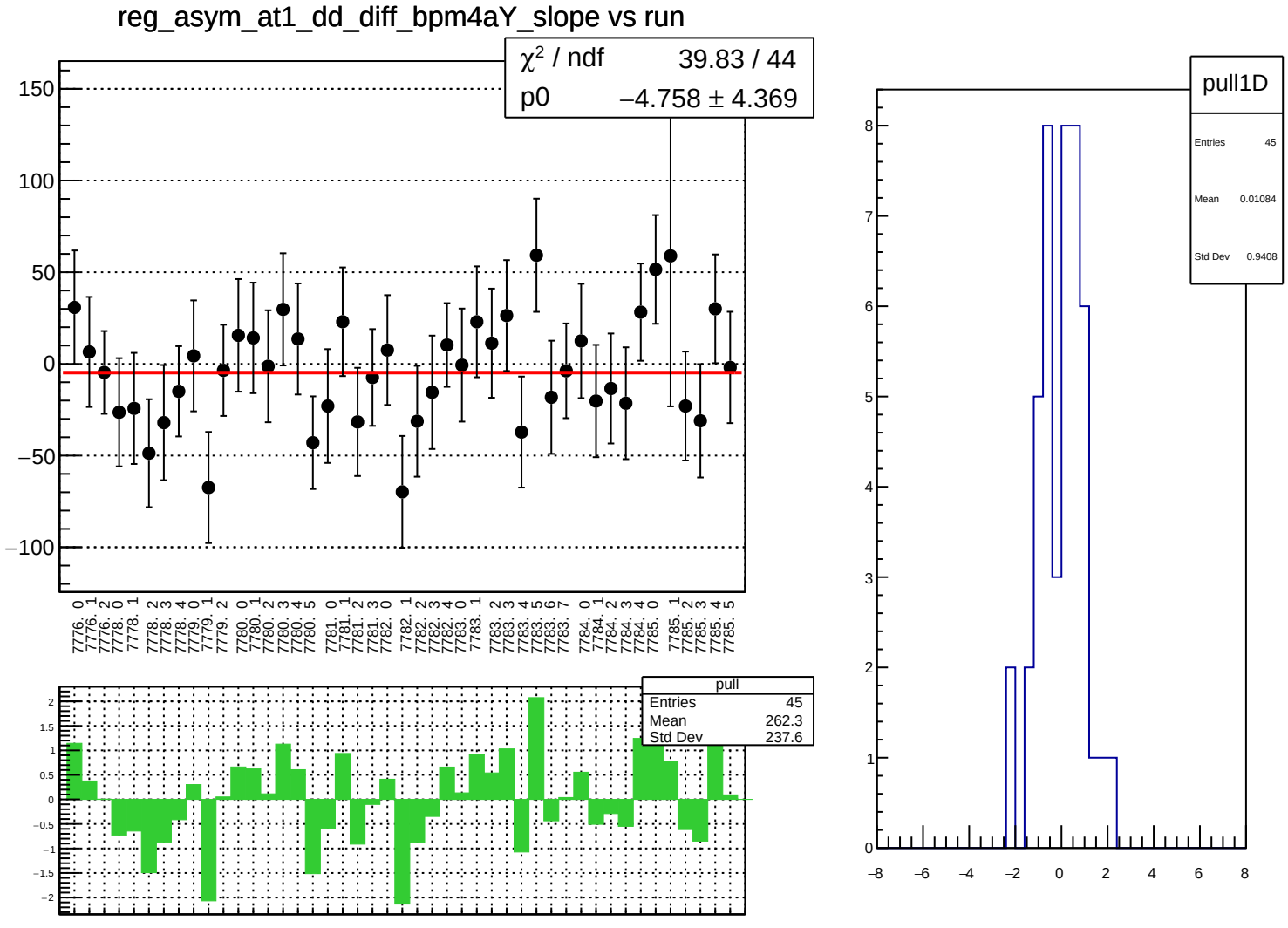

pull1D
Entries 45
Mean −0.004864
Std Dev 0.8284

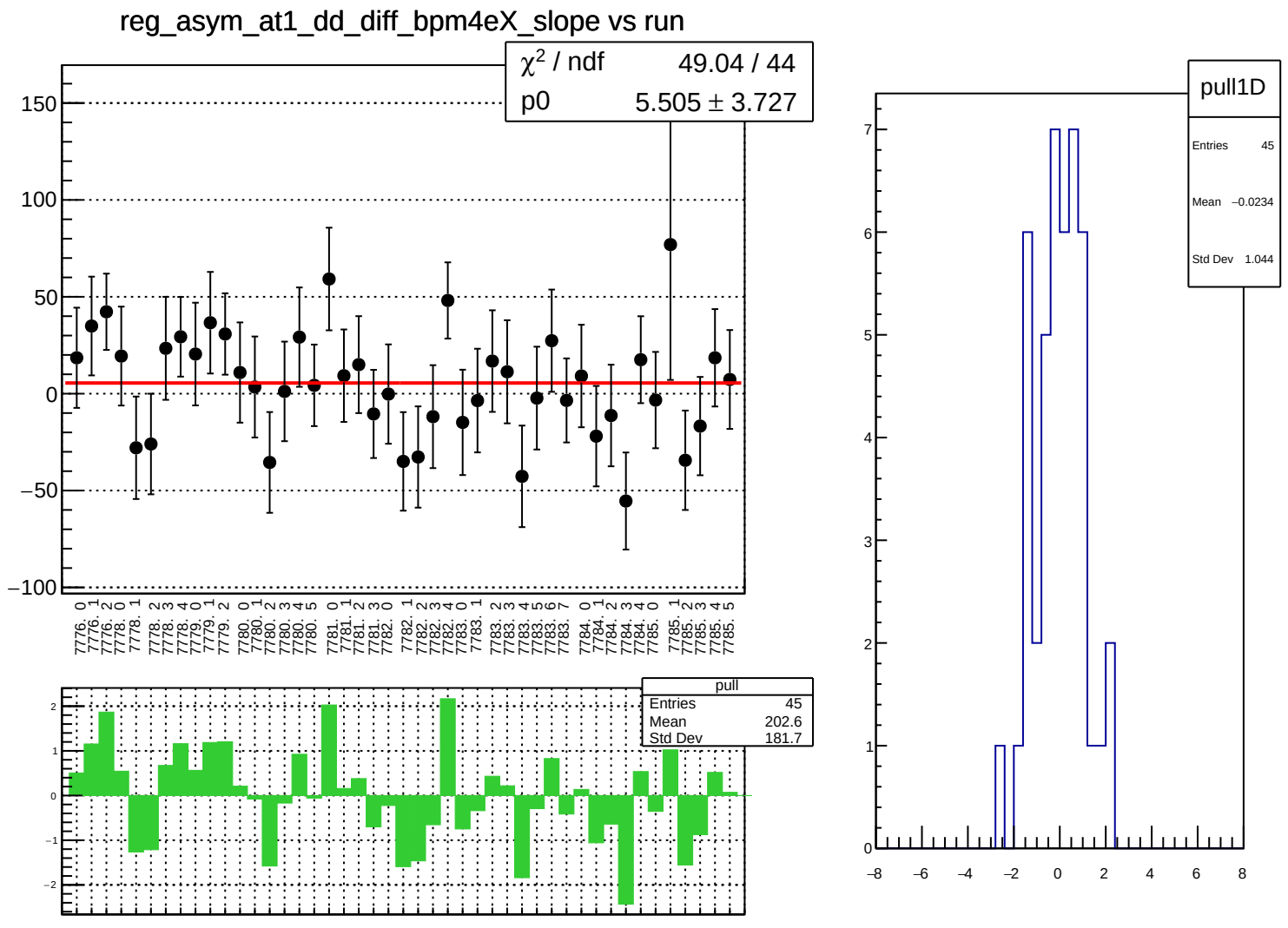

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 69.47 / 44
p0 −30.1 ± 0.1558
−28
−30
−32
−34
−36
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 338.6
Std Dev 319.8
2
1
0
−1
−2
−3
−4

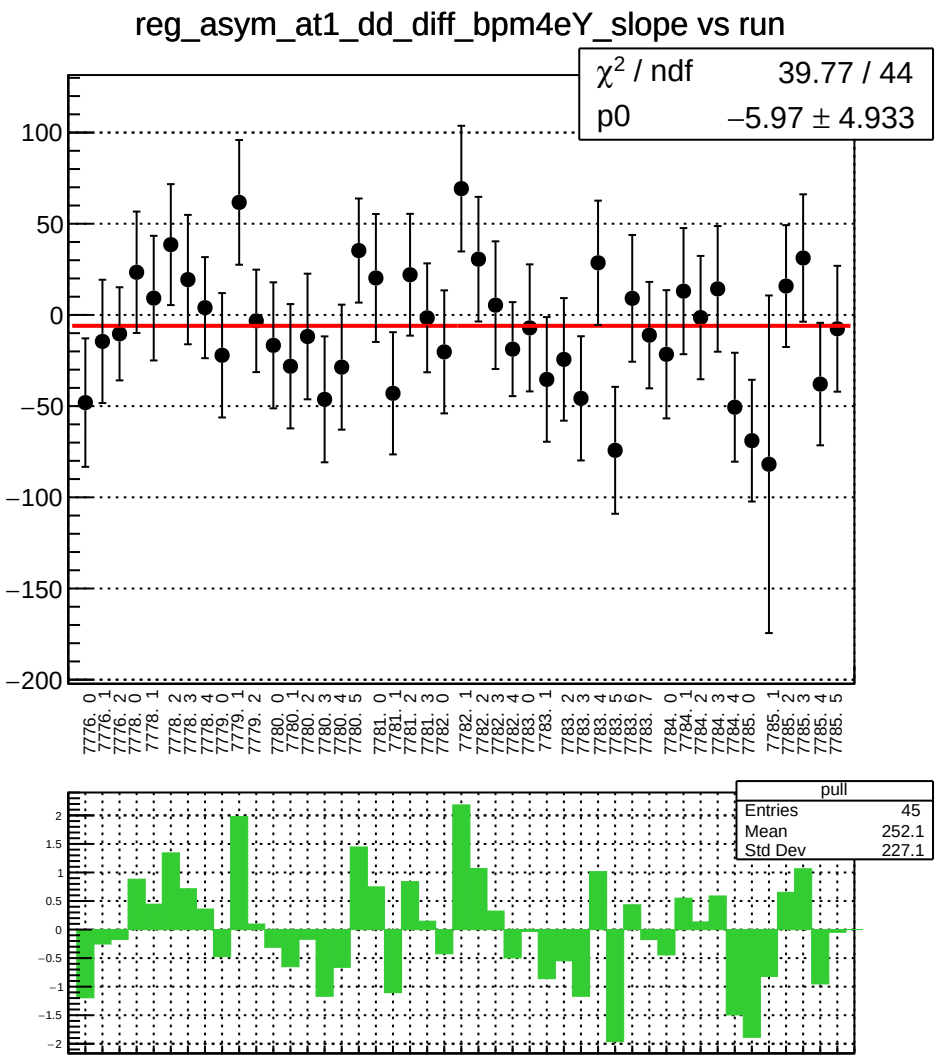

pull1D
Entries 45
Mean 0.0188
Std Dev 1.242
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

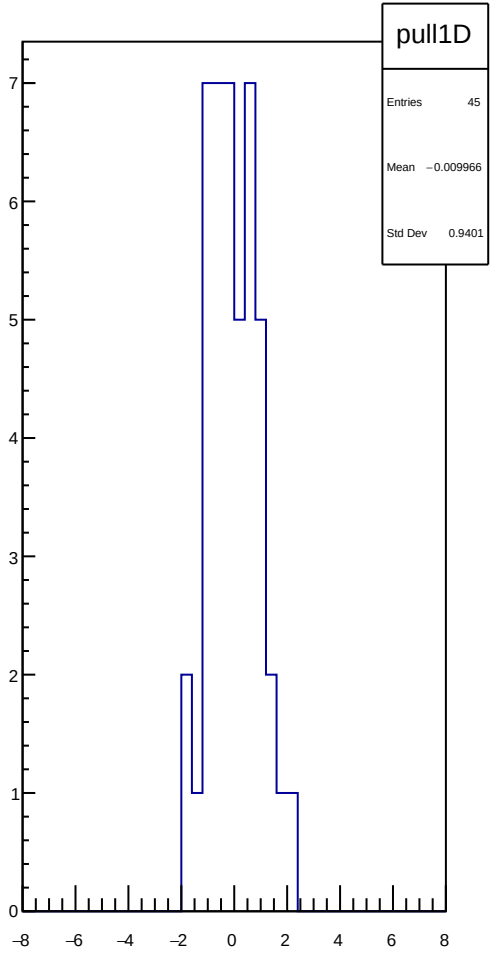

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 48.75 / 44
p0 44.27 ± 4.282
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 223.8
Std Dev 203.3
2
1
0
−1
−2

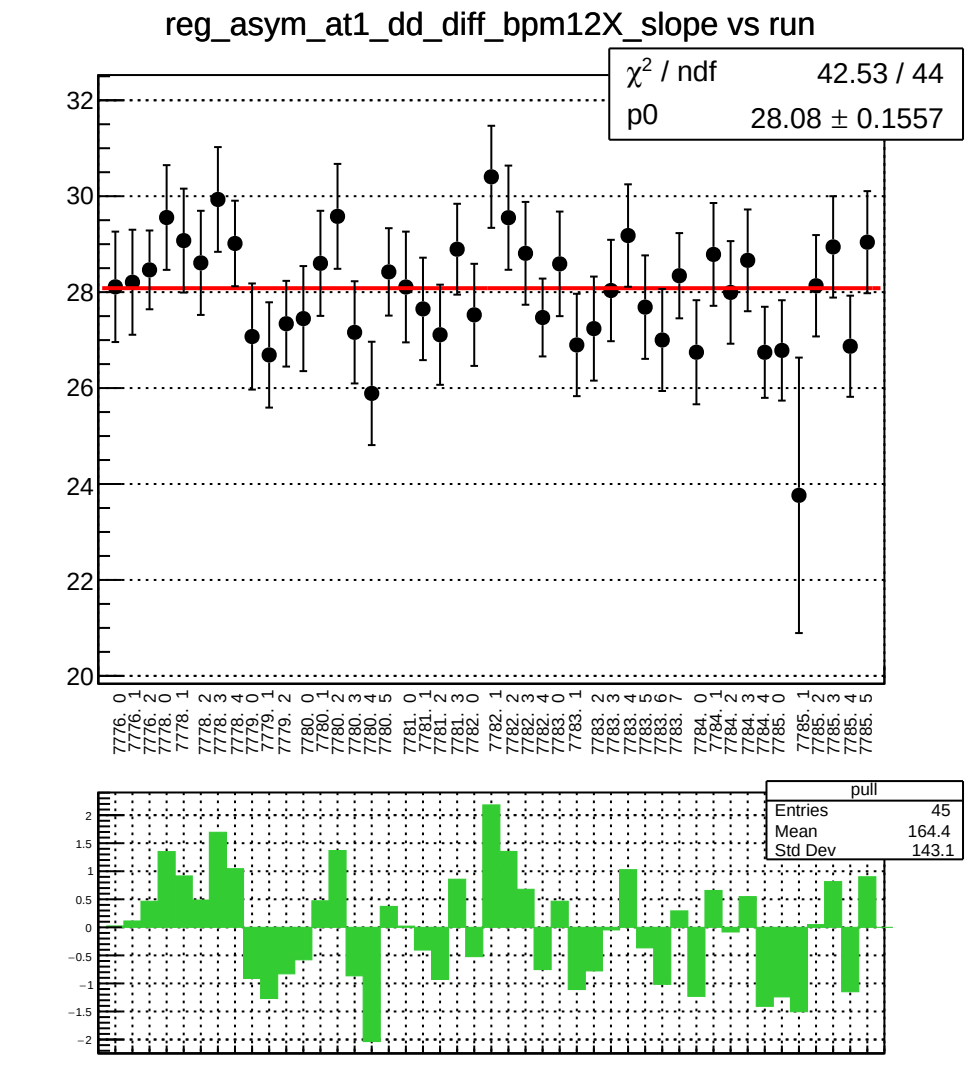

pull1D
Entries 45
Mean 0.02005
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

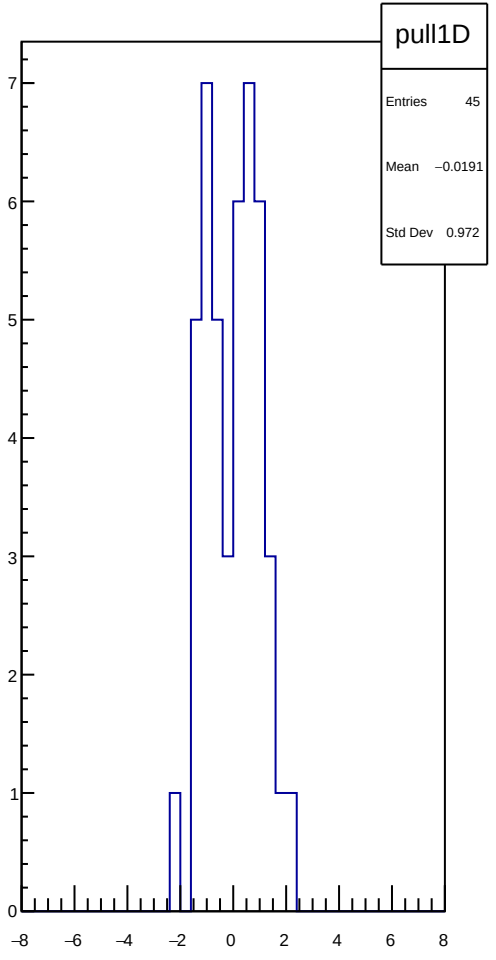

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.83 / 44
p0 −4.758 ± 4.369
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 262.3
Std Dev 237.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 45
Mean 0.01084
Std Dev 0.9408
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

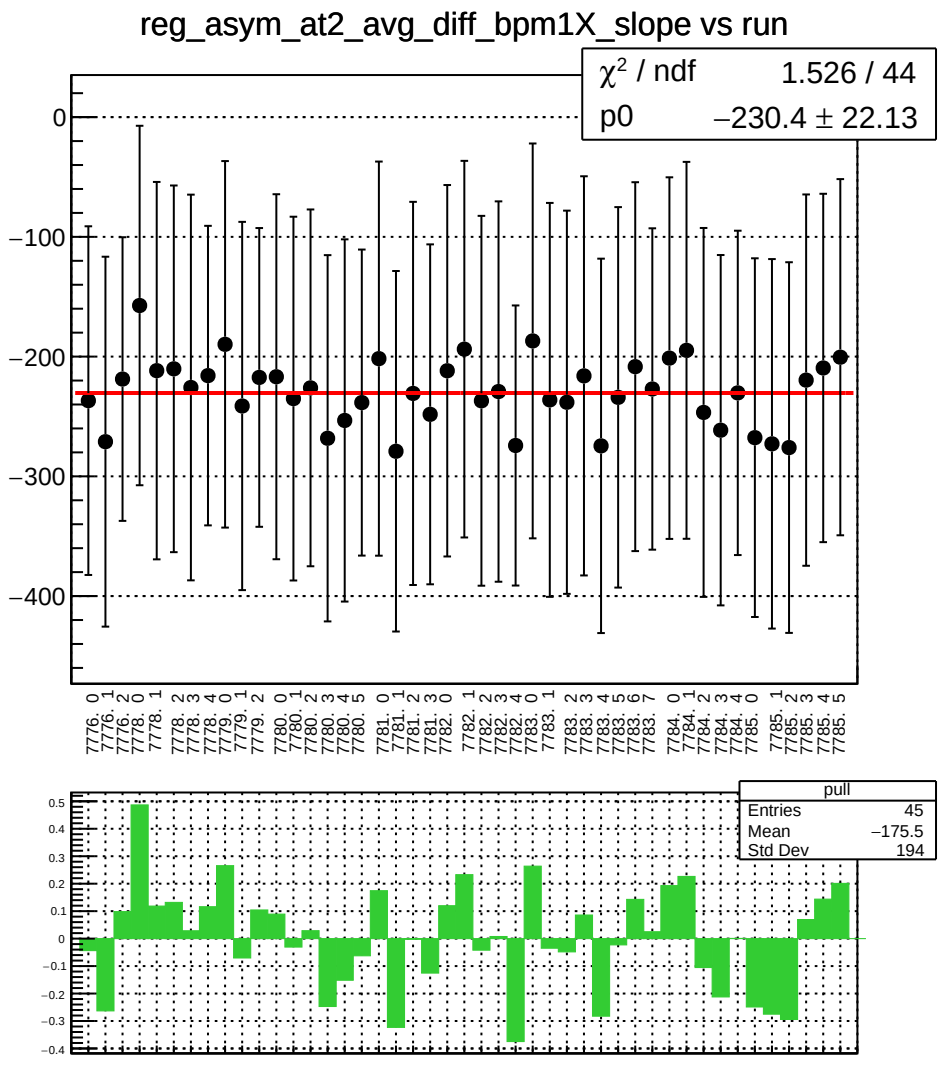

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.04 / 44
p0 5.505 ± 3.727
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 202.6
Std Dev 181.7
2
1
0
−1
−2
pull1D
Entries 45
Mean −0.0234
Std Dev 1.044
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

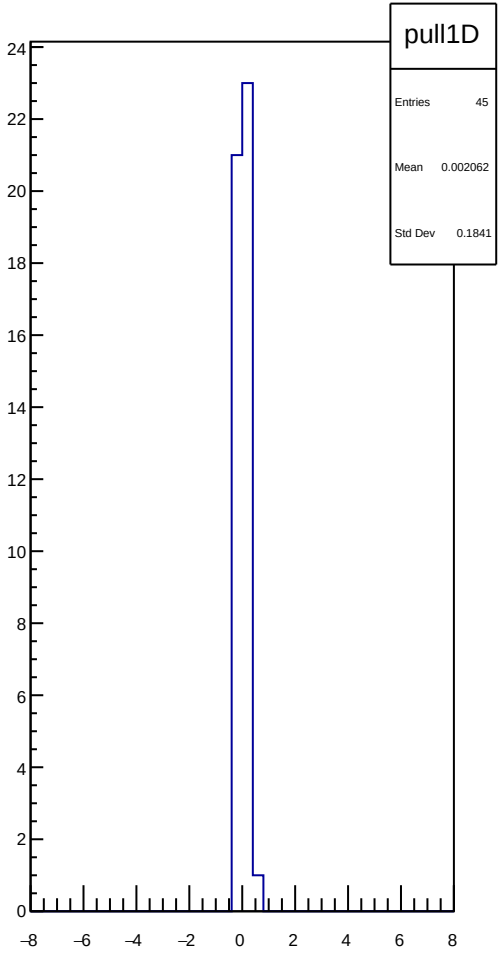

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.77 / 44
p0 −5.97 ± 4.933
pull
Entries 45
Mean 252.1
Std Dev 227.1

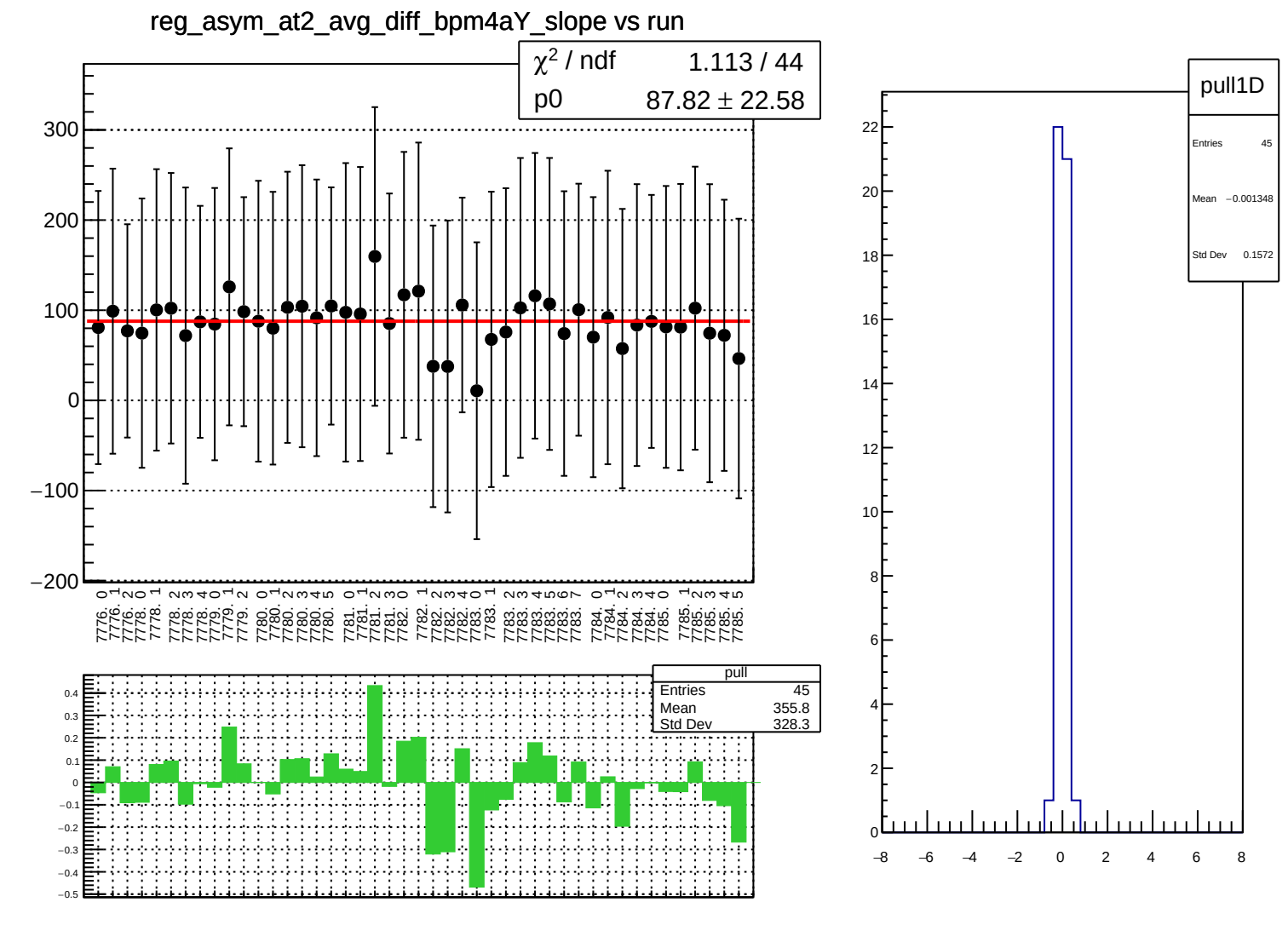

pull1D
Entries 45
Mean −0.009966
Std Dev 0.9401

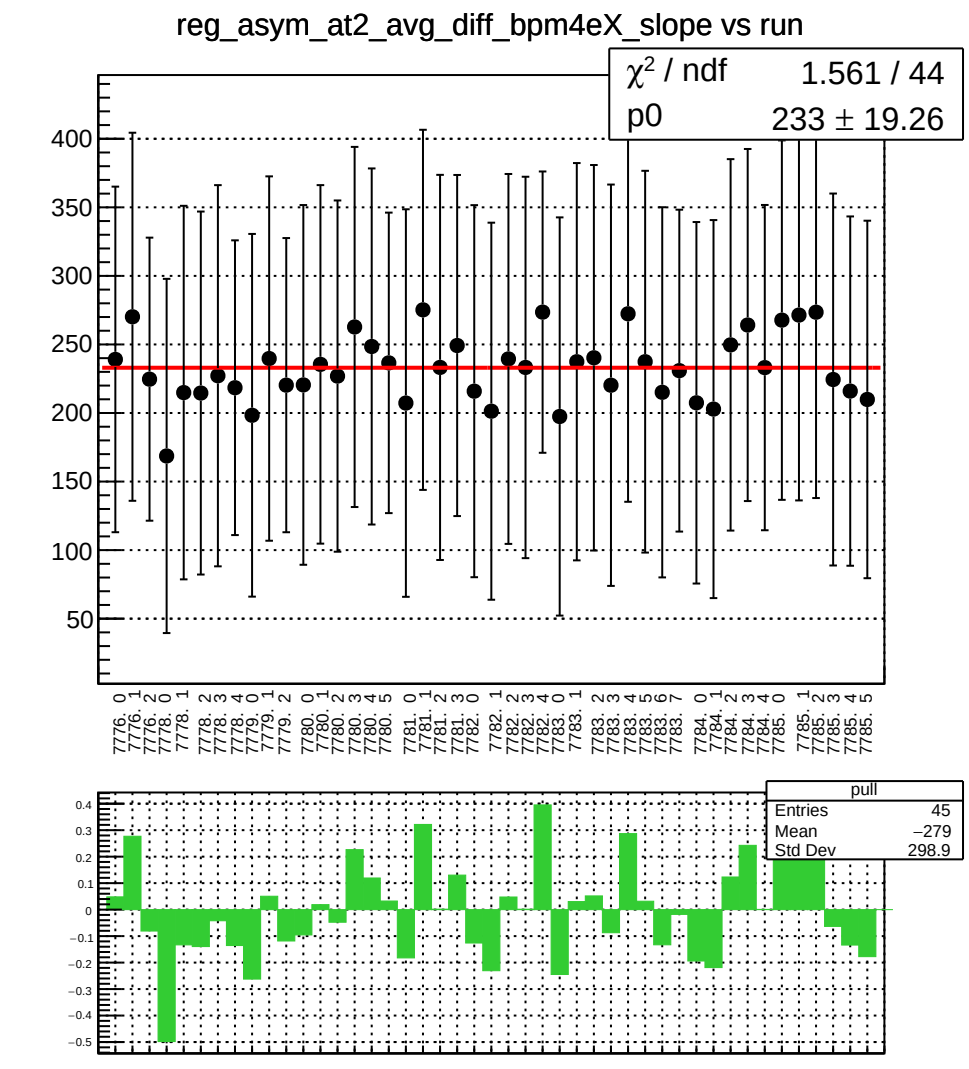

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 42.53 / 44
p0 28.08 ± 0.1557
pull
Entries 45
Mean 164.4
Std Dev 143.1

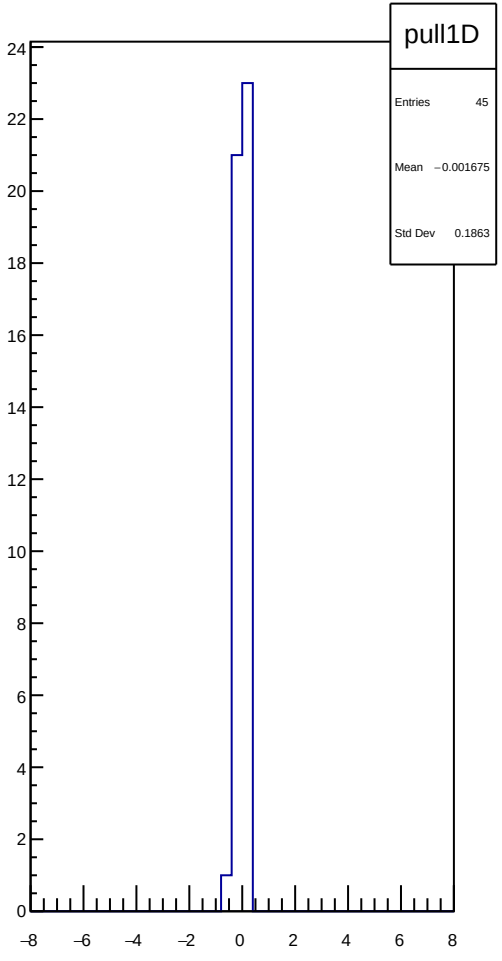

pull1D
Entries 45
Mean −0.0191
Std Dev 0.972

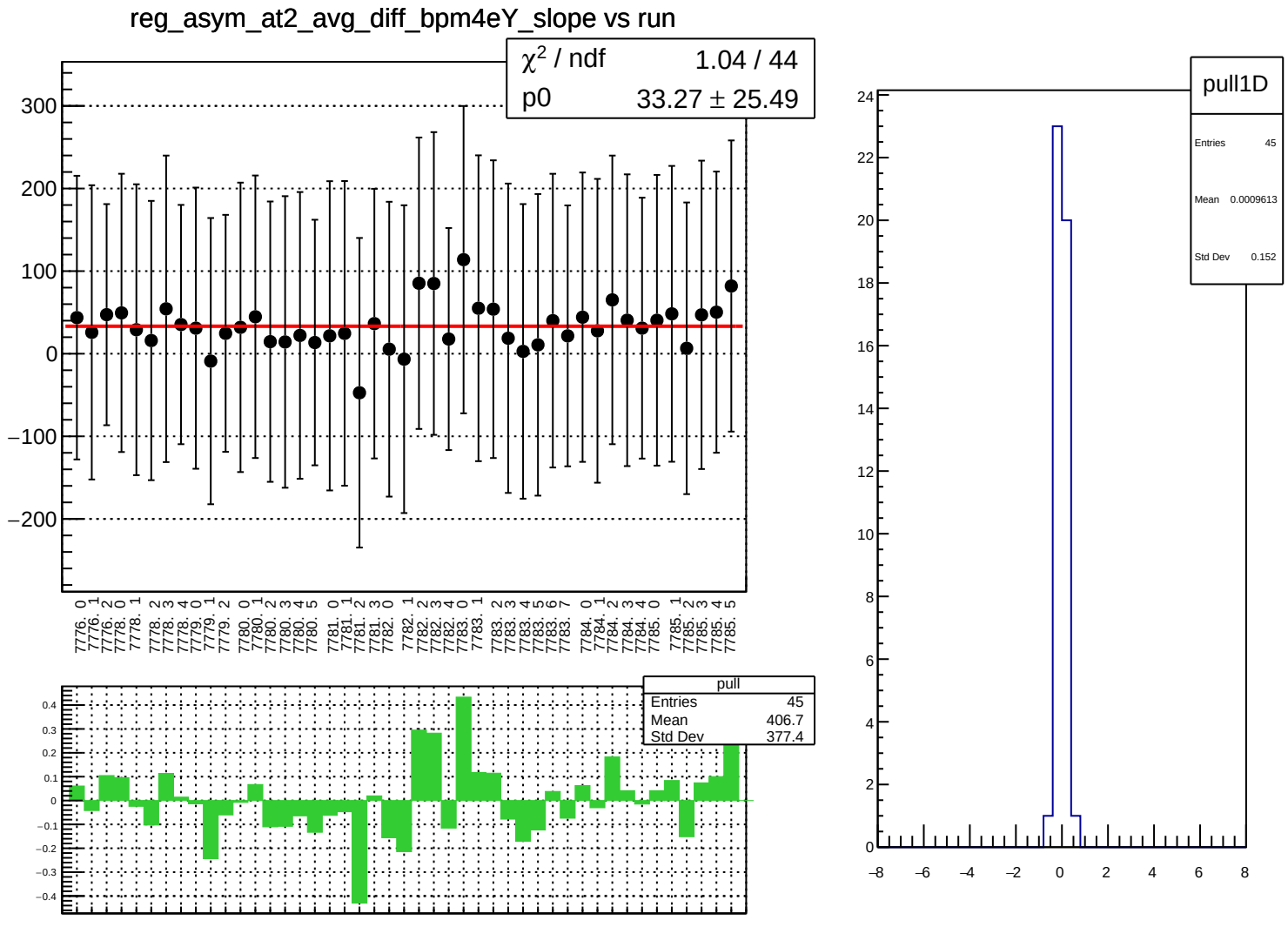

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 1.526 / 44
p0 −230.4 ± 22.13
0
−100
−200
−300
−400
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −175.5
Std Dev 194
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

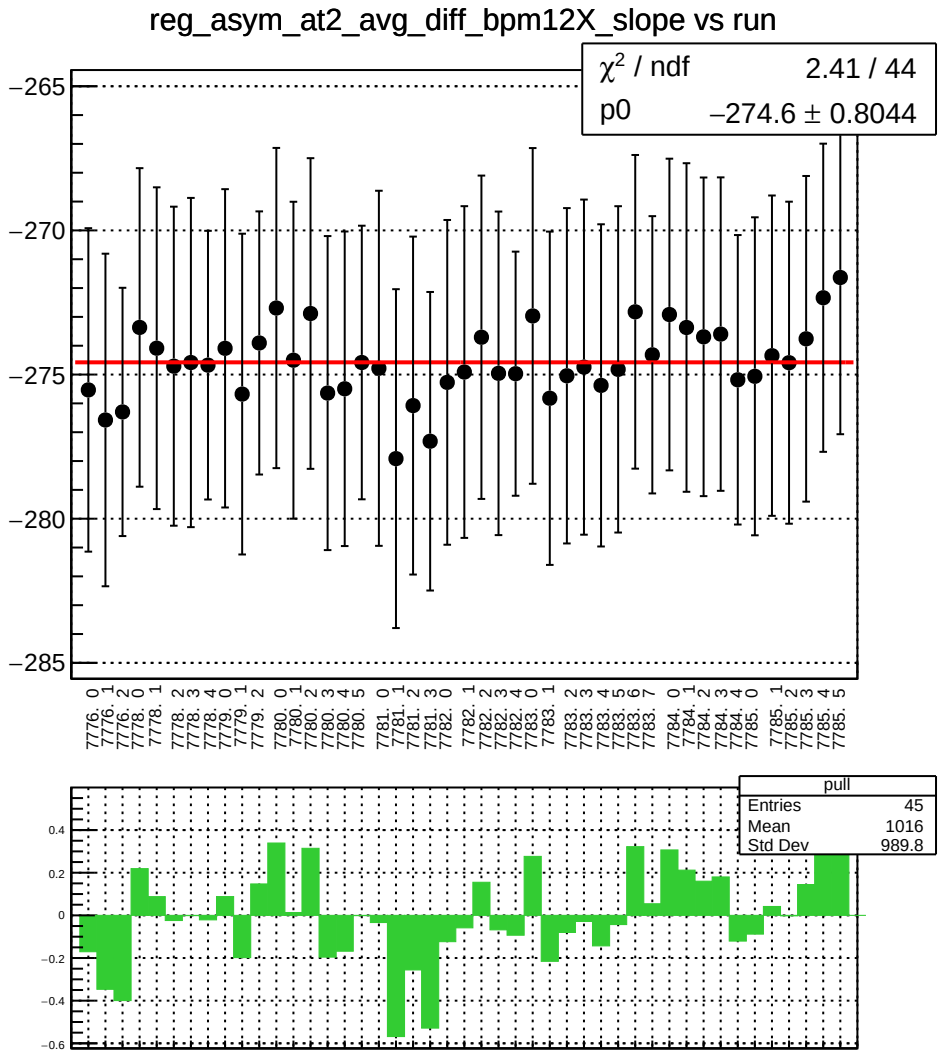

pull1D
Entries 45
Mean 0.002062
Std Dev 0.1841
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

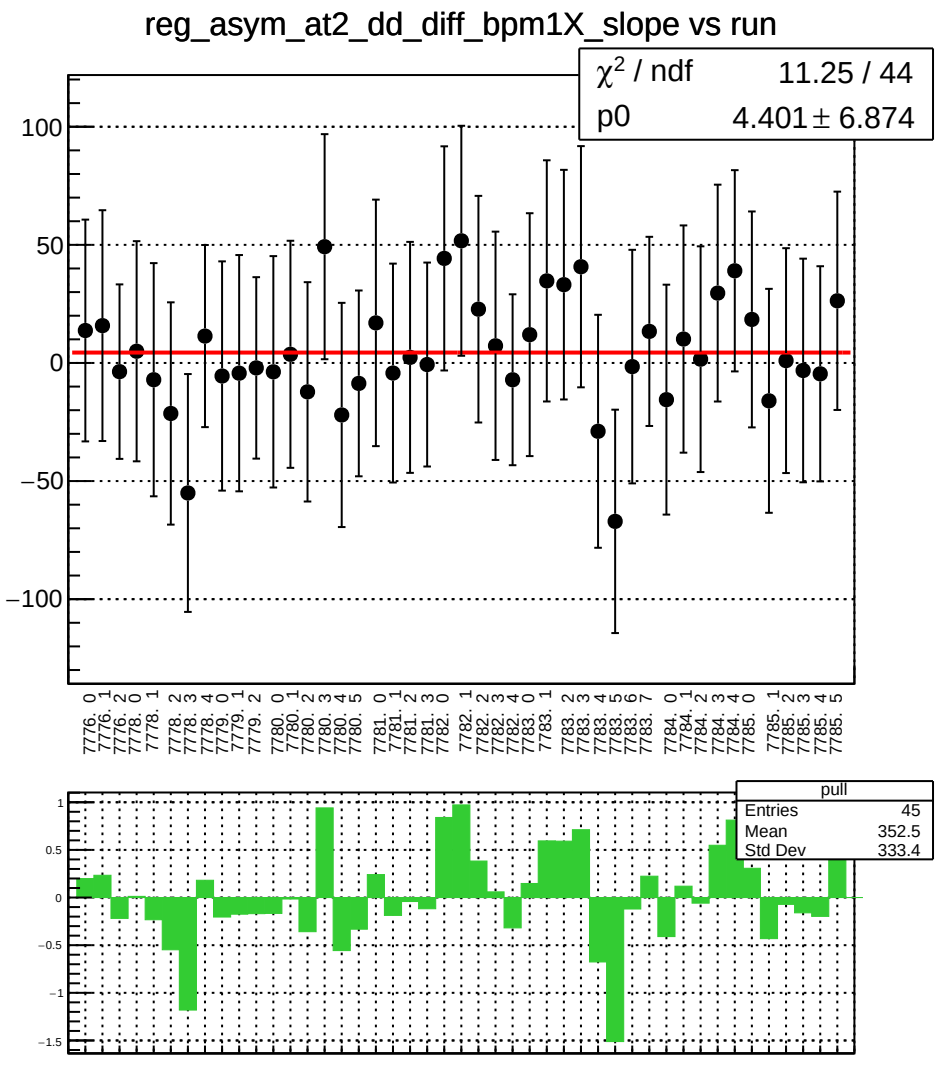

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.113 / 44
p0 87.82 ± 22.58
pull
Entries 45
Mean 355.8
Std Dev 328.3
pull1D
Entries 45
Mean −0.001348
Std Dev 0.1572

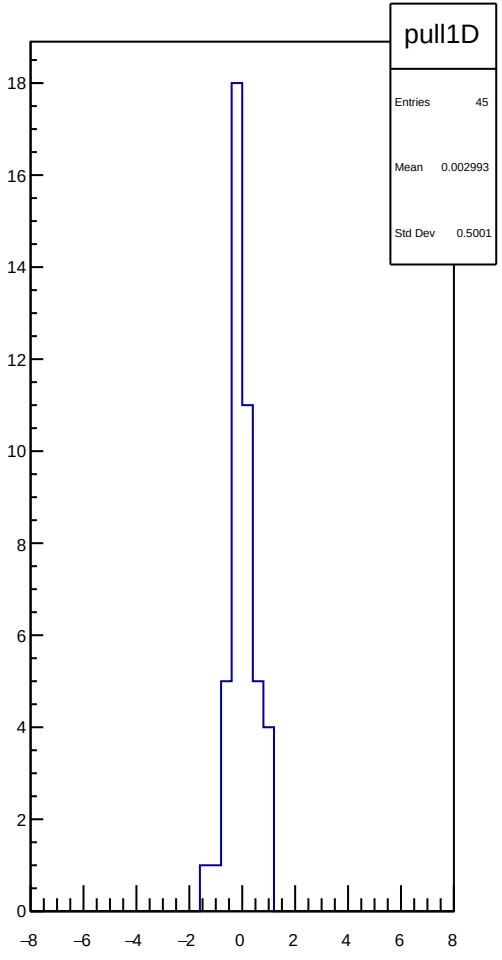

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.561 / 44
p0 233 ± 19.26
pull
Entries 45
Mean −279
Std Dev 298.9

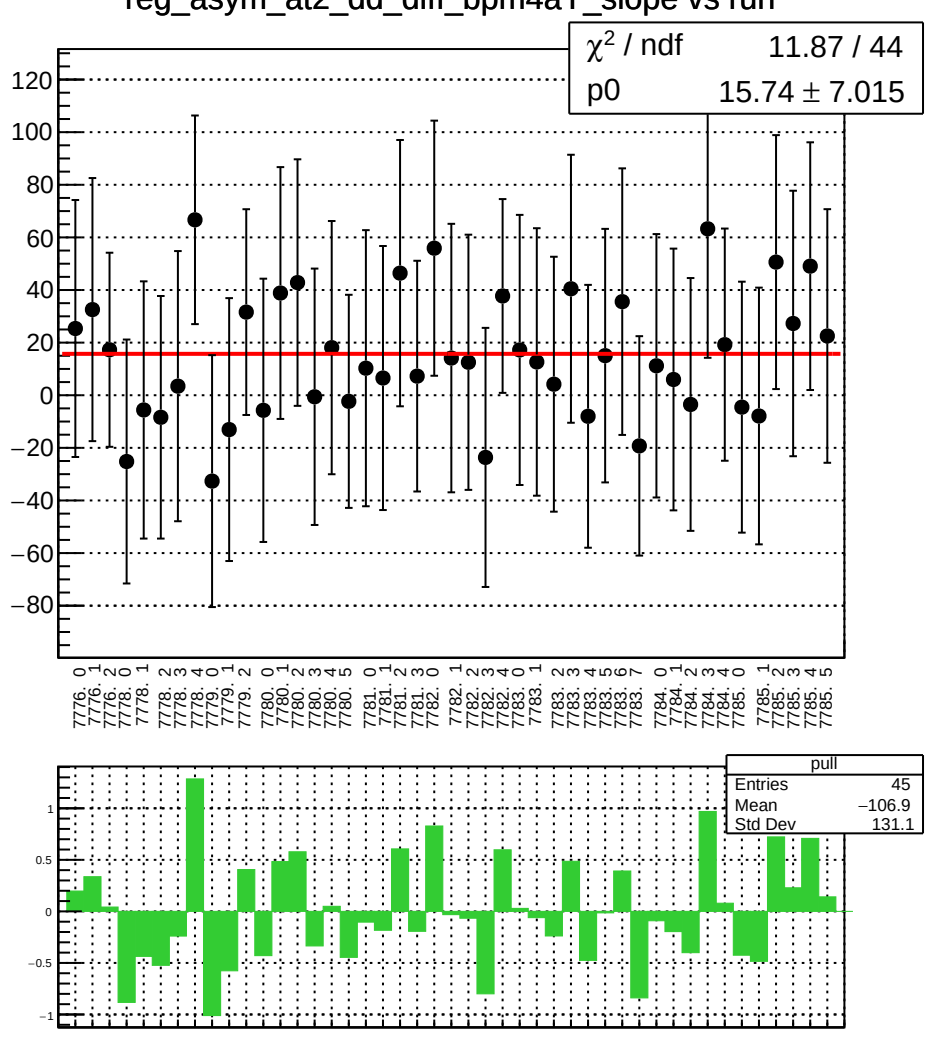

pull1D
Entries 45
Mean −0.001675
Std Dev 0.1863

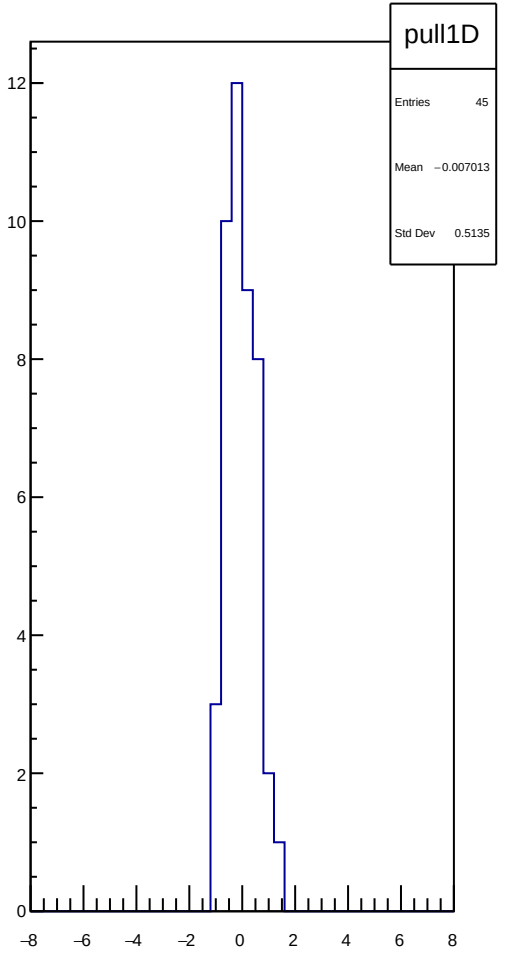

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.04 / 44
p0 33.27 ± 25.49
300
200
100
0
−100
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 406.7
Std Dev 377.4
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 45
Mean 0.0009613
Std Dev 0.152
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

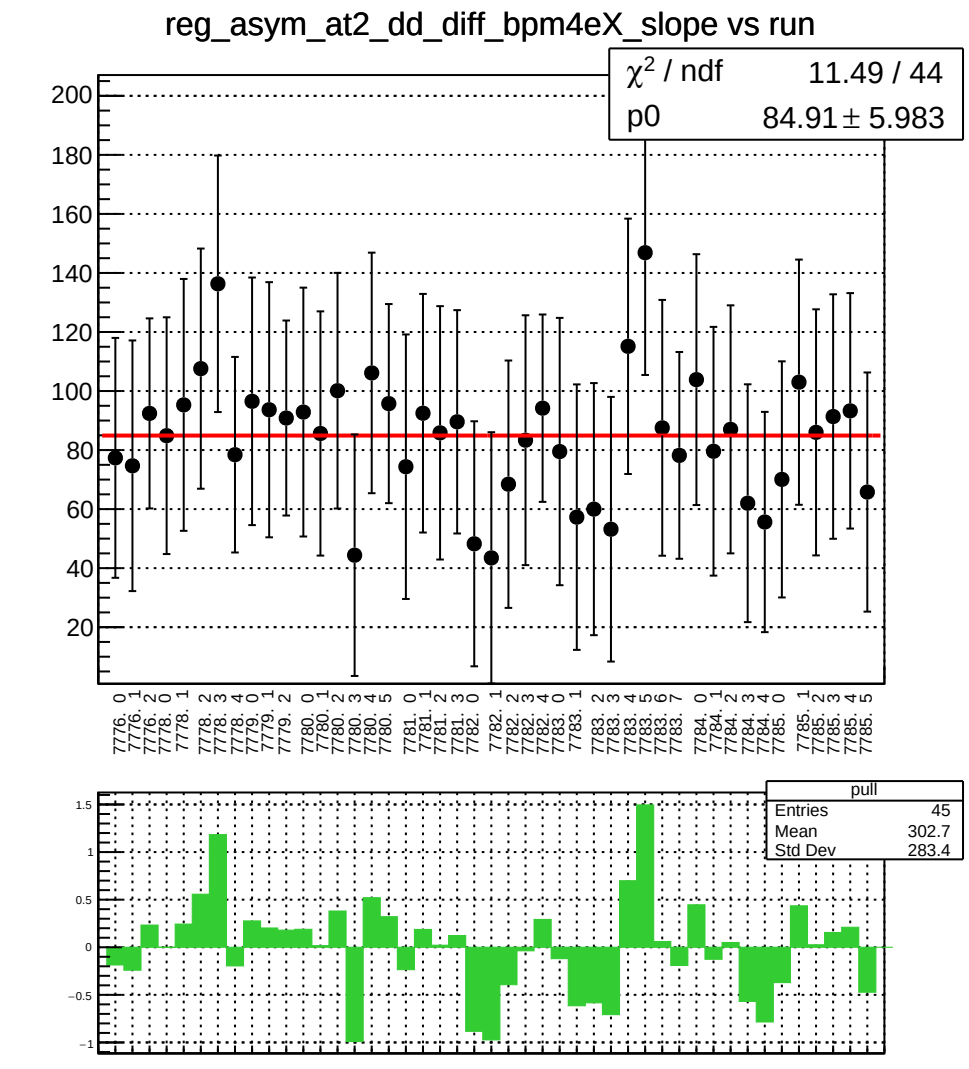

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 2.41 / 44
p0 −274.6 ± 0.8044
−265
−270
−275
−280
−285
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 1016
Std Dev 989.8
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.001066
Std Dev 0.2314
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

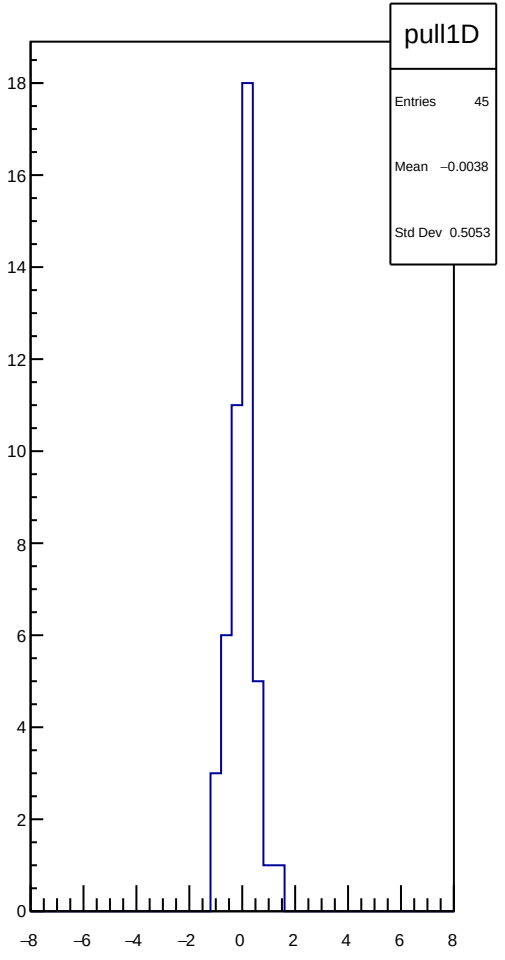

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.25 / 44
p0 4.401 ± 6.874
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 352.5
Std Dev 333.4
1
0.5
0
−0.5
−1
−1.5

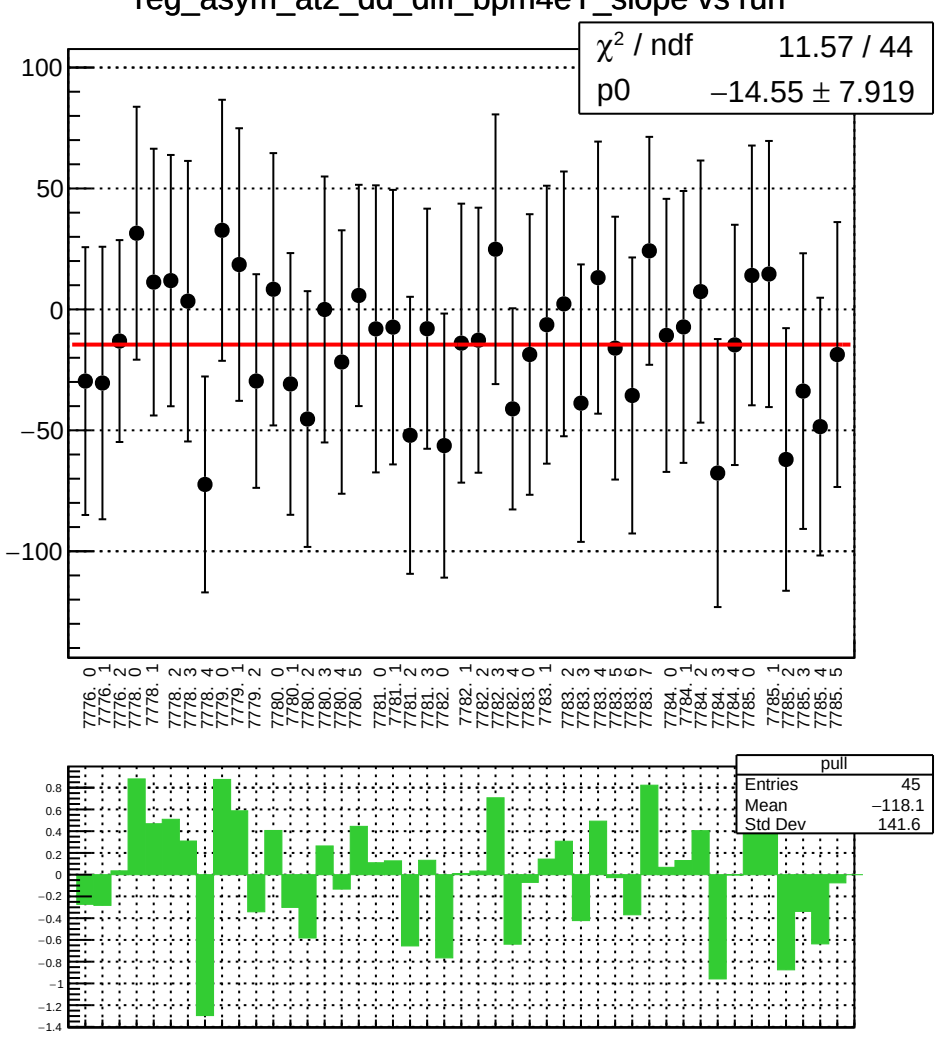

pull1D
Entries 45
Mean 0.002993
Std Dev 0.5001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

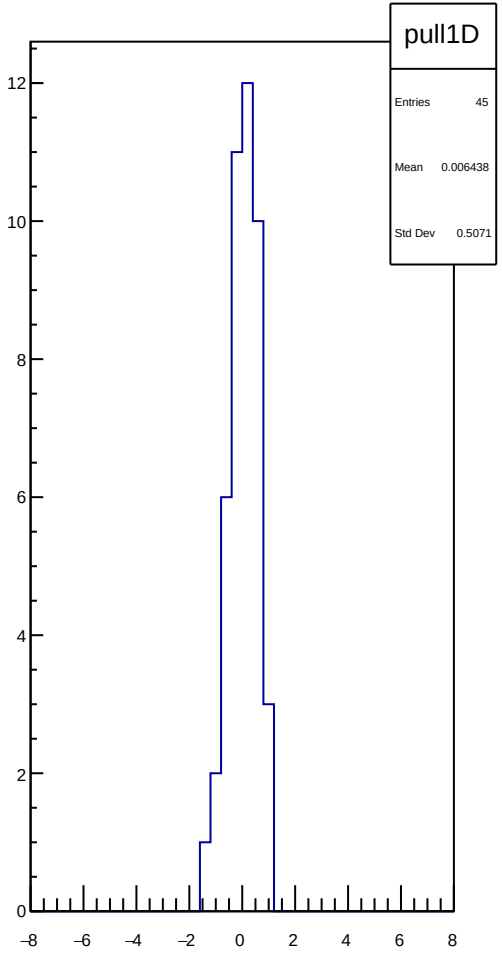

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.87 / 44
p0 15.74 ± 7.015
pull
Entries 45
Mean −106.9
Std Dev 131.1

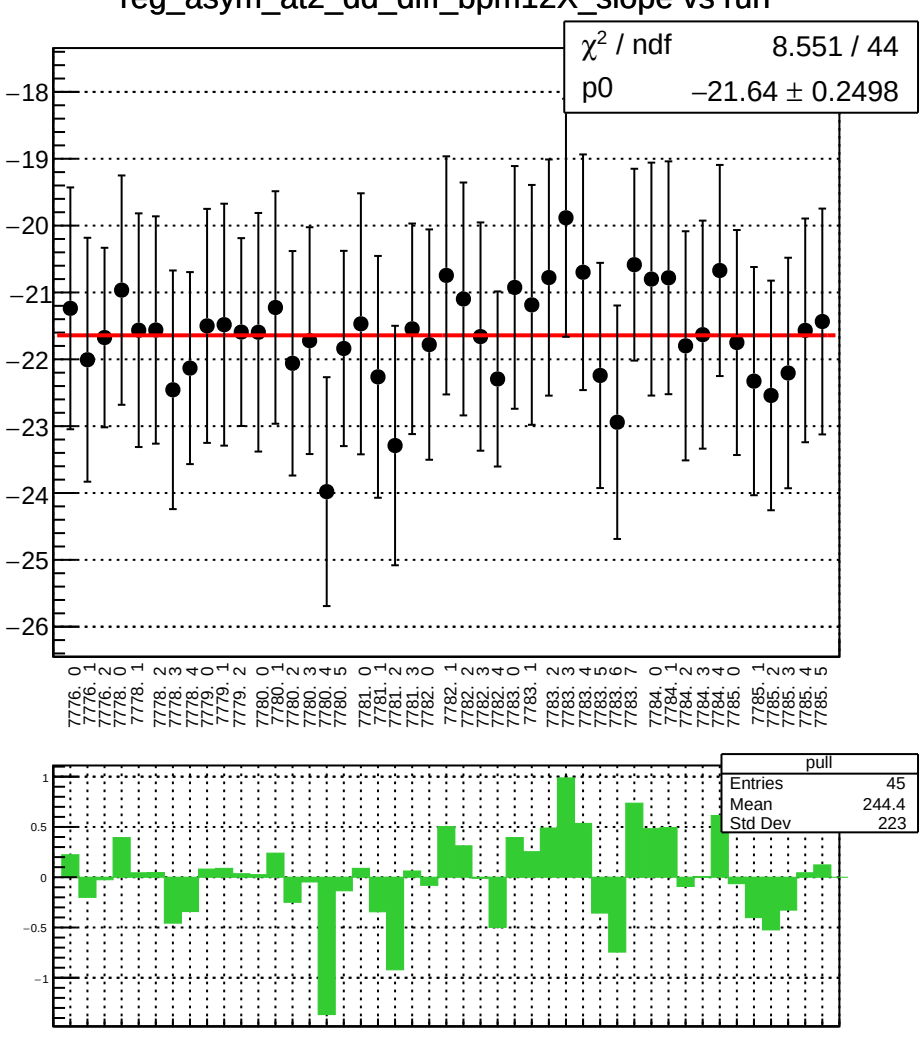

pull1D
Entries 45
Mean −0.007013
Std Dev 0.5135

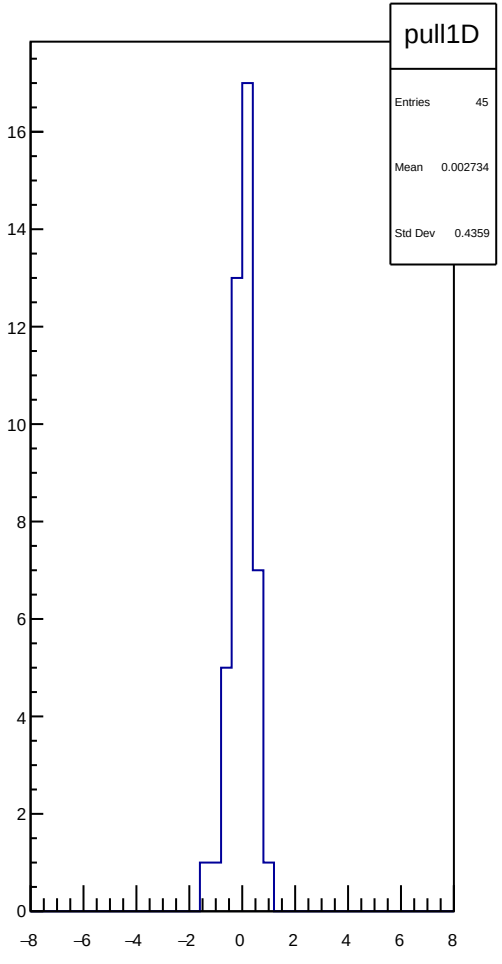

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.49 / 44
p0 84.91 ± 5.983
pull
Entries 45
Mean 302.7
Std Dev 283.4

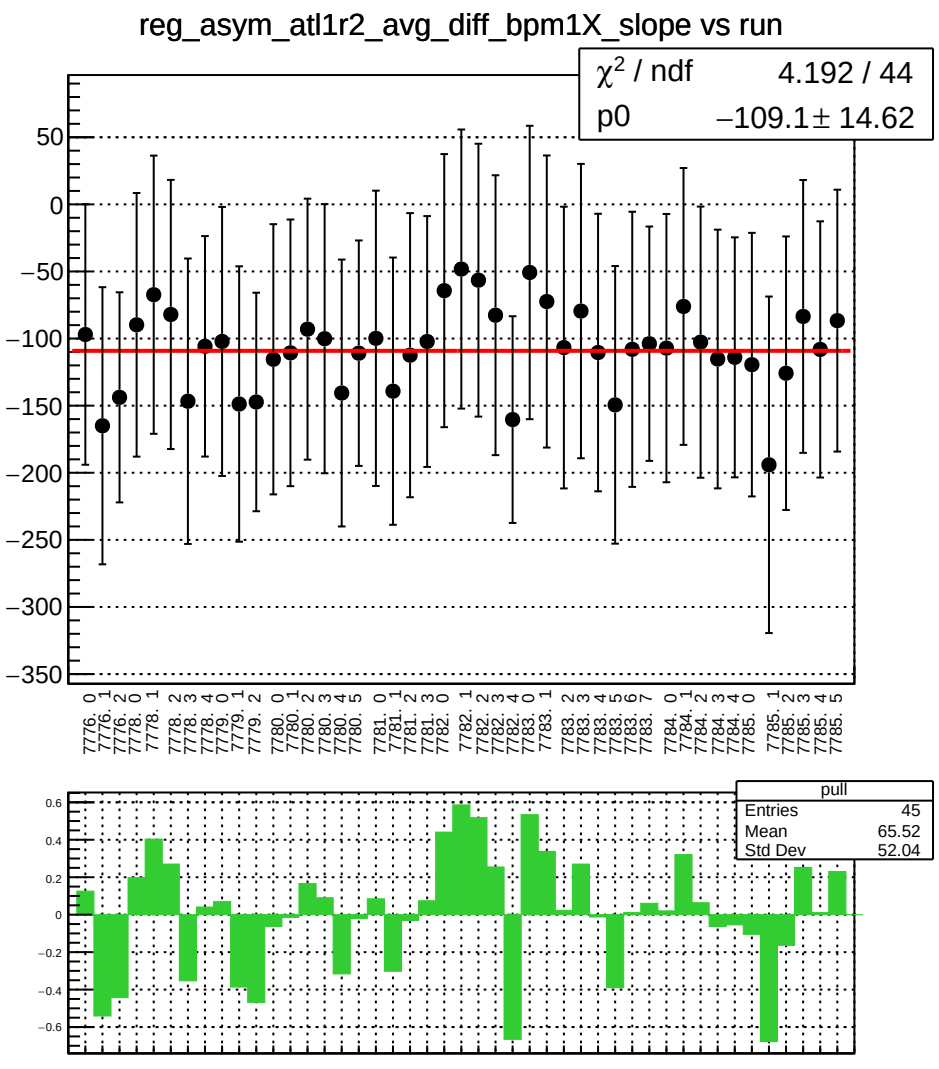

pull1D
Entries 45
Mean −0.0038
Std Dev 0.5053

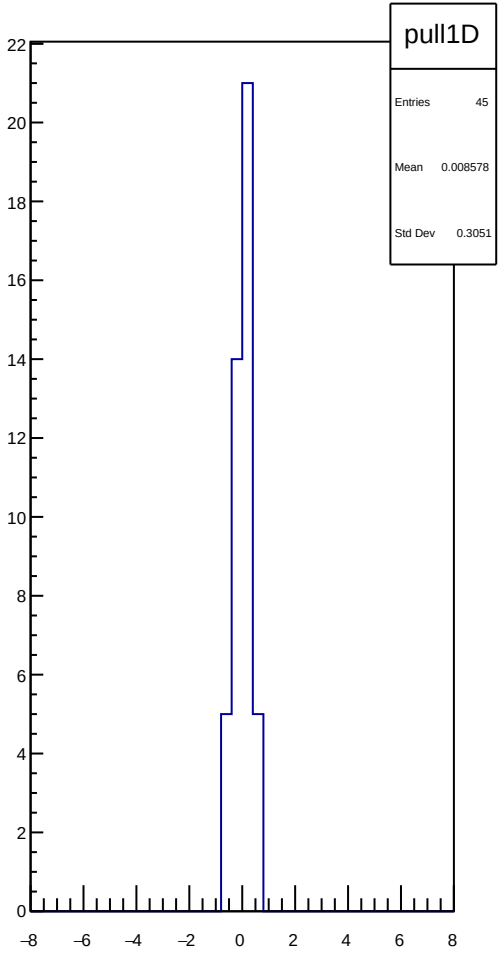

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.57 / 44
p0 −14.55 ± 7.919
pull
Entries 45
Mean −118.1
Std Dev 141.6

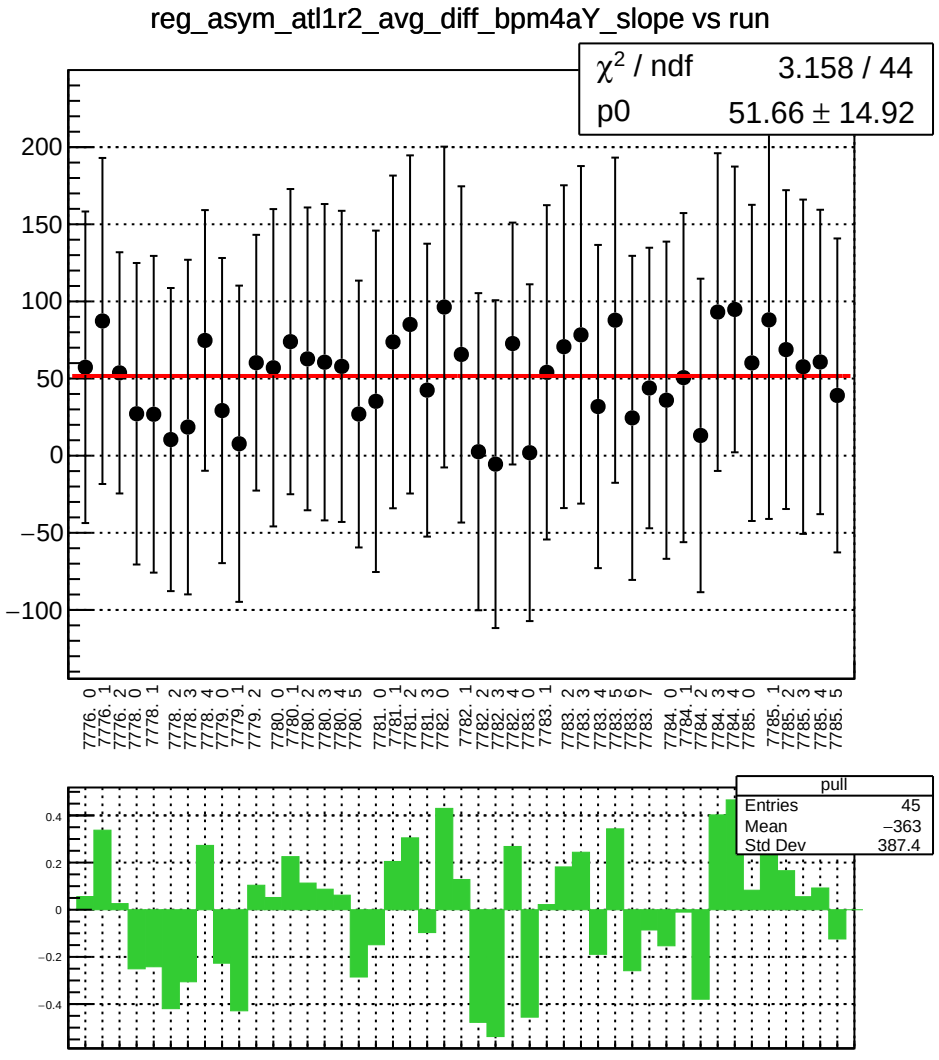

pull1D
Entries 45
Mean 0.006438
Std Dev 0.5071

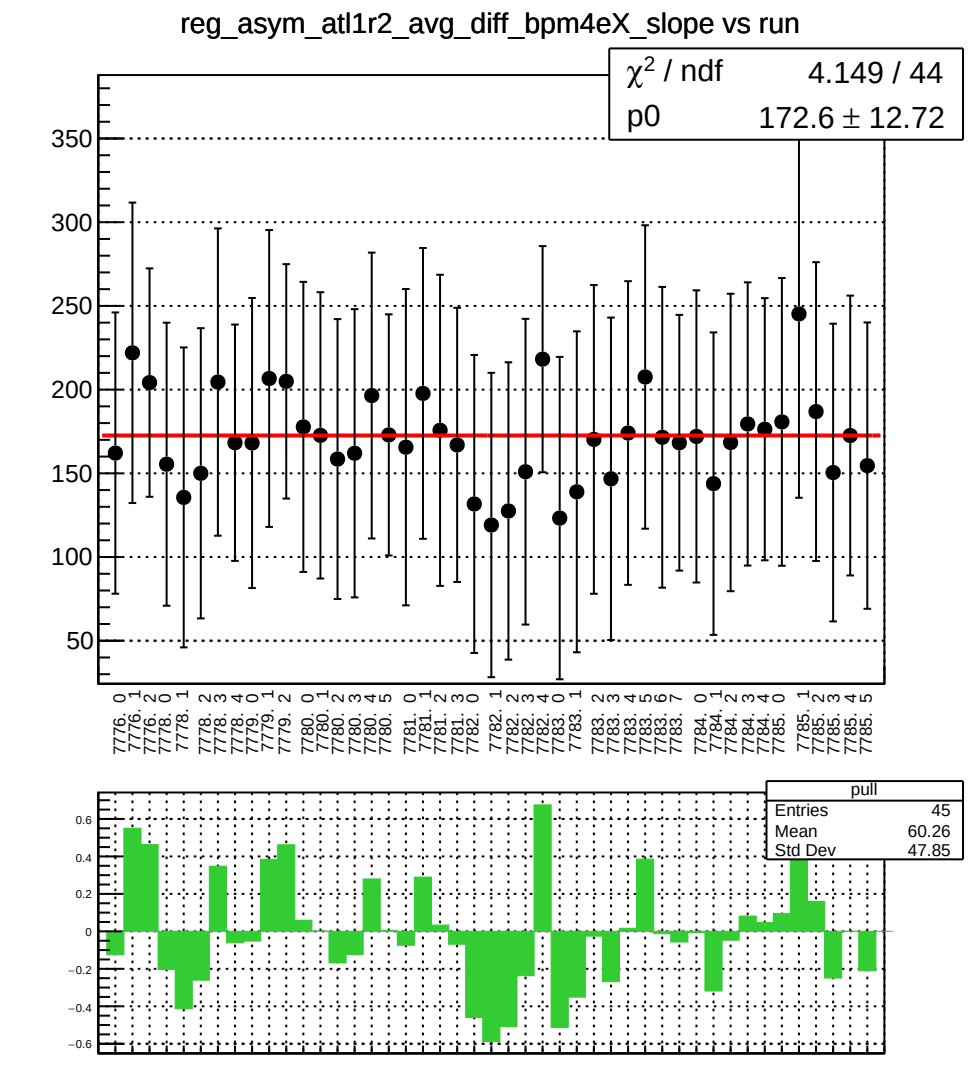

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.551 / 44
p0 −21.64 ± 0.2498
pull
Entries 45
Mean 244.4
Std Dev 223

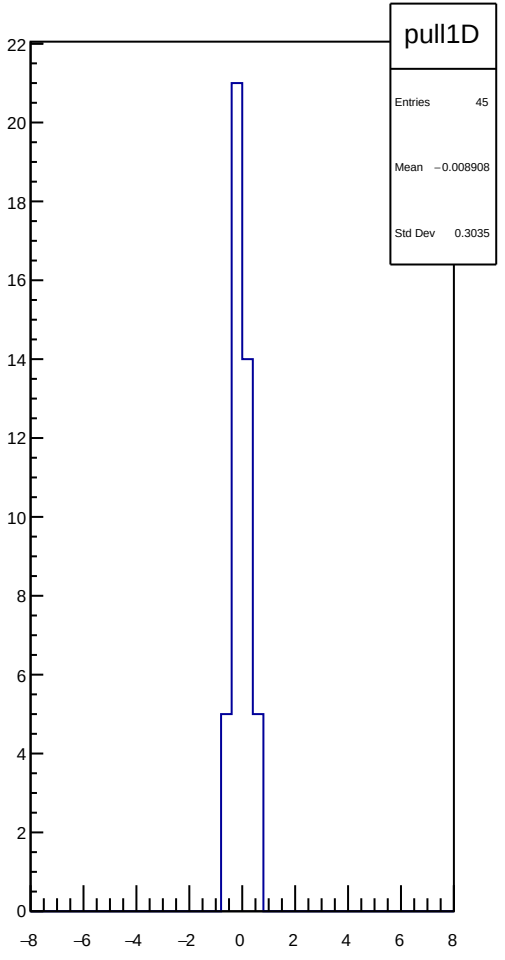

pull1D
Entries 45
Mean 0.002734
Std Dev 0.4359

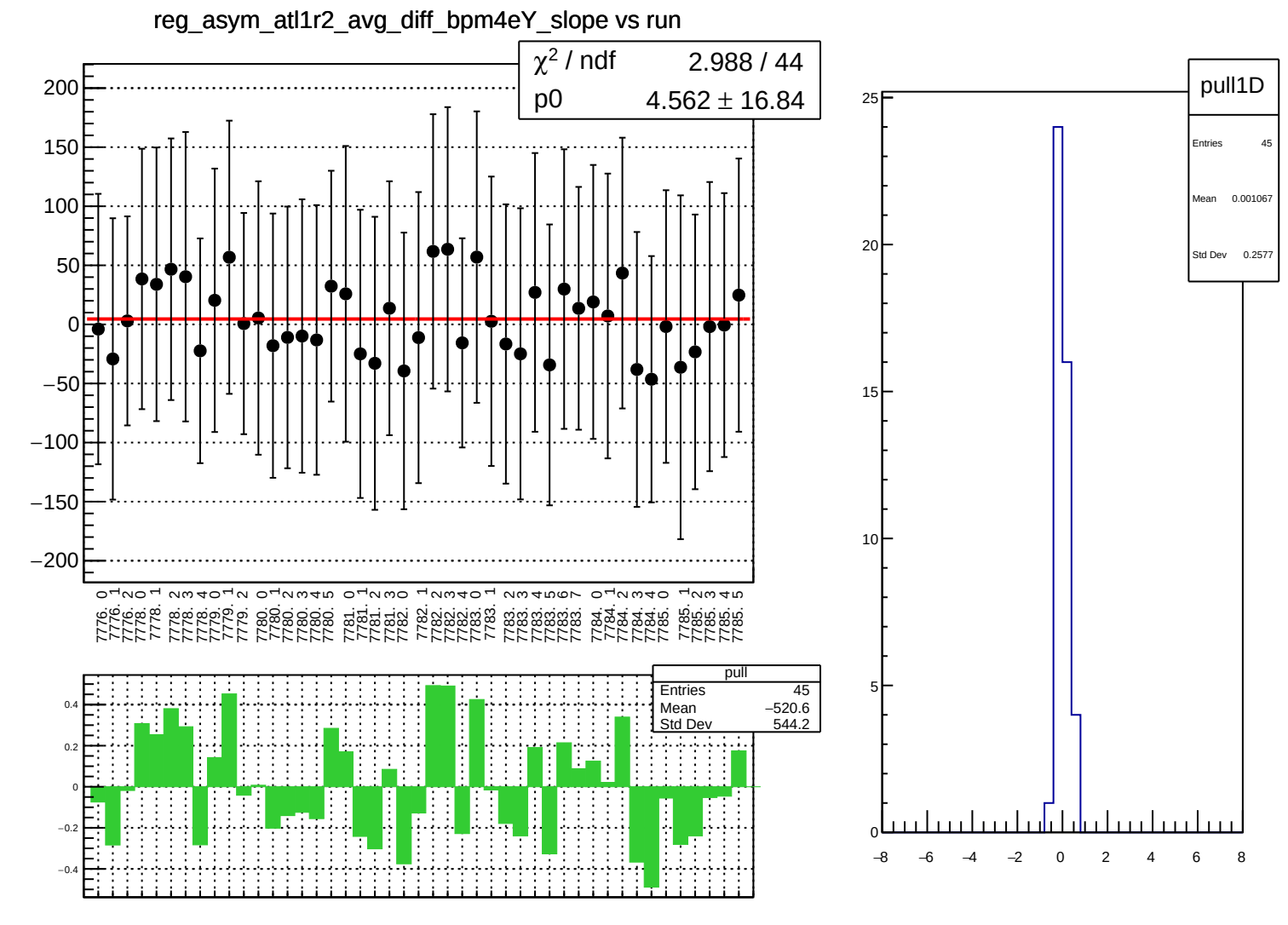

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.192 / 44
p0 −109.1± 14.62
pull
Entries 45
Mean 65.52
Std Dev 52.04

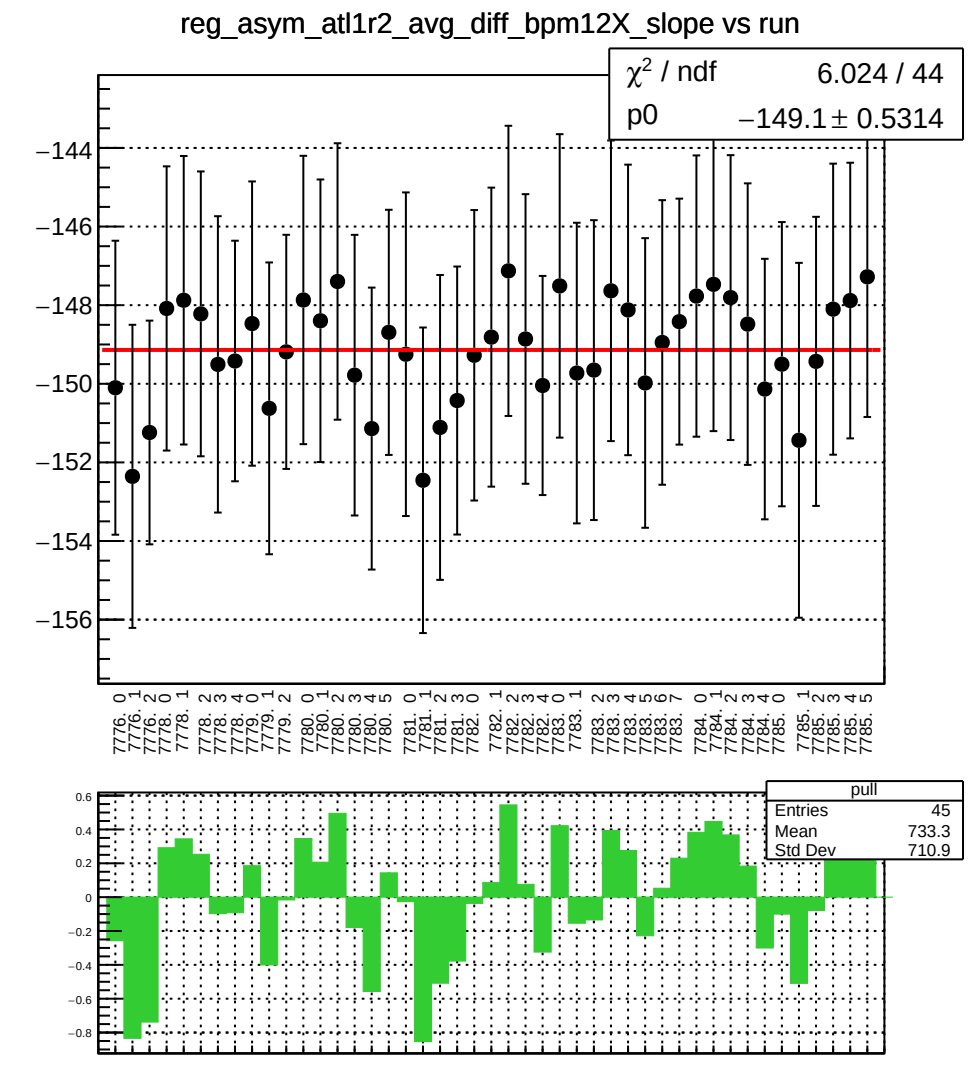

pull1D
Entries 45
Mean 0.008578
Std Dev 0.3051

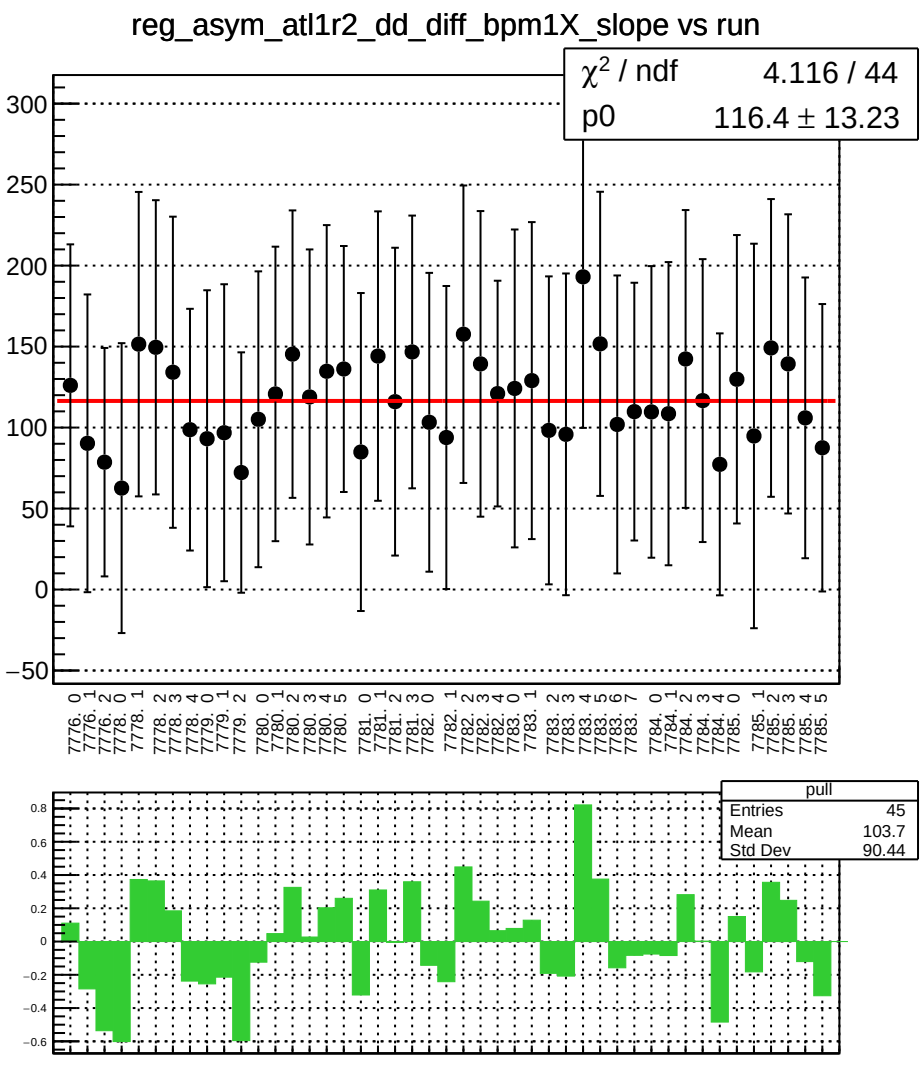

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.158 / 44
p0 51.66 ± 14.92
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −363
Std Dev 387.4
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.001484
Std Dev 0.2649
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

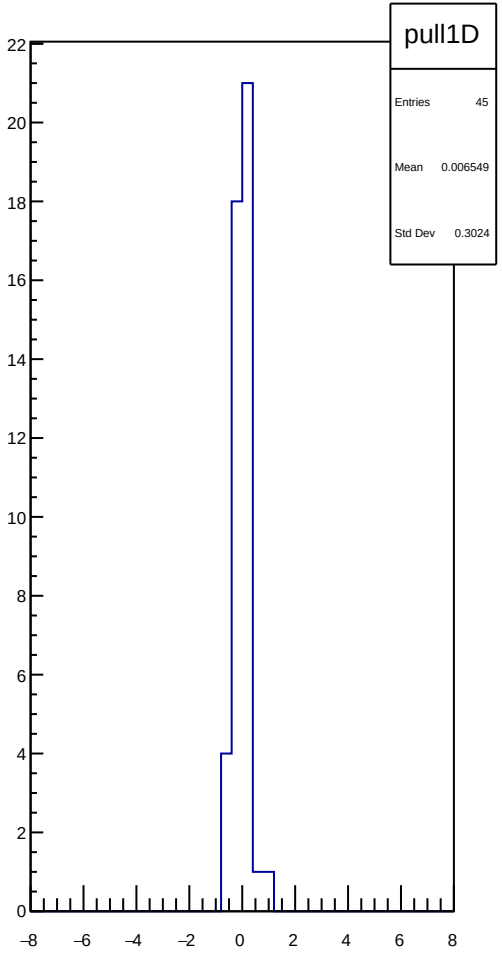

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.149 / 44
p0 172.6 ± 12.72
pull
Entries 45
Mean 60.26
Std Dev 47.85

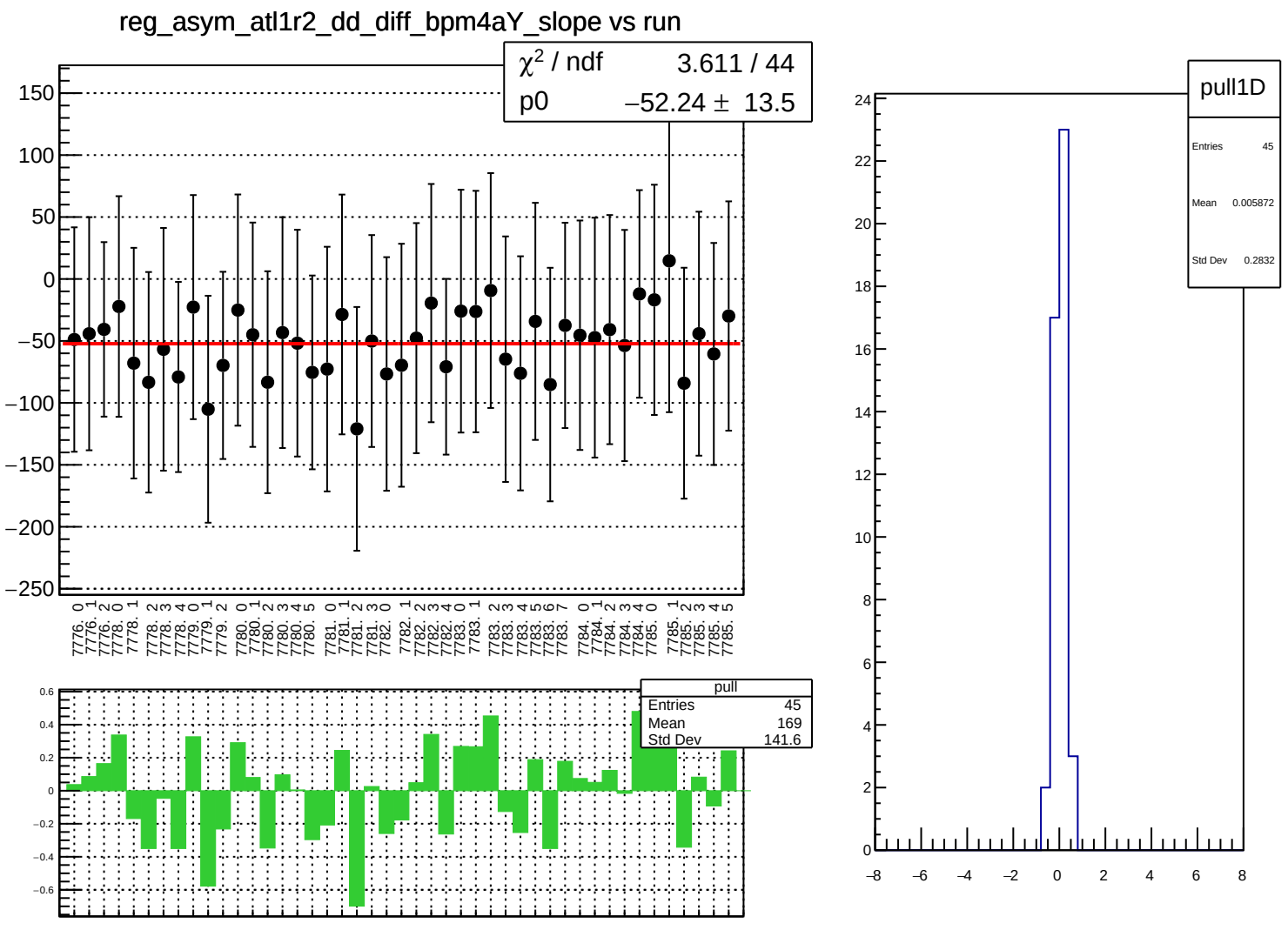

pull1D
Entries 45
Mean −0.008908
Std Dev 0.3035

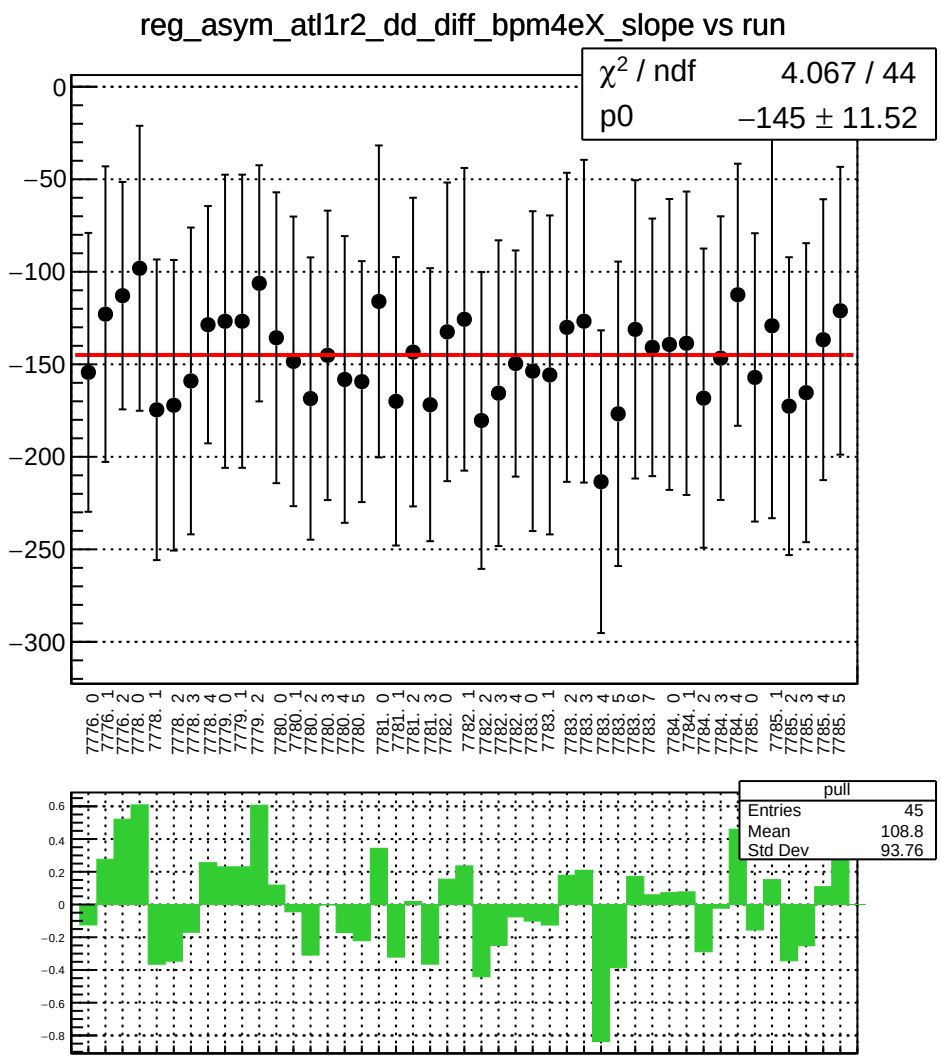

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.988 / 44
p0 4.562 ± 16.84
200
150
100
50
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −520.6
Std Dev 544.2
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.001067
Std Dev 0.2577
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

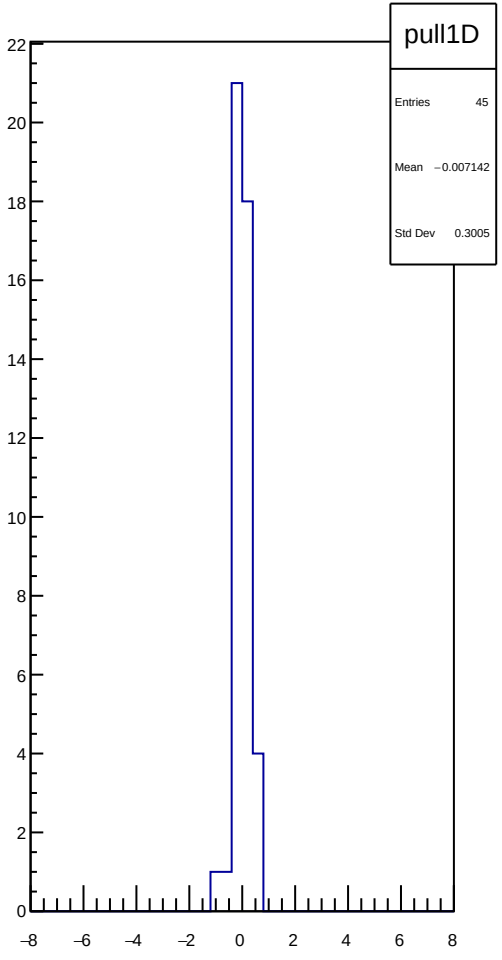

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 6.024 / 44
p0 −149.1 ± 0.5314
−144
−146
−148
−150
−152
−154
−156
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 733.3
Std Dev 710.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.00185
Std Dev 0.3659
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

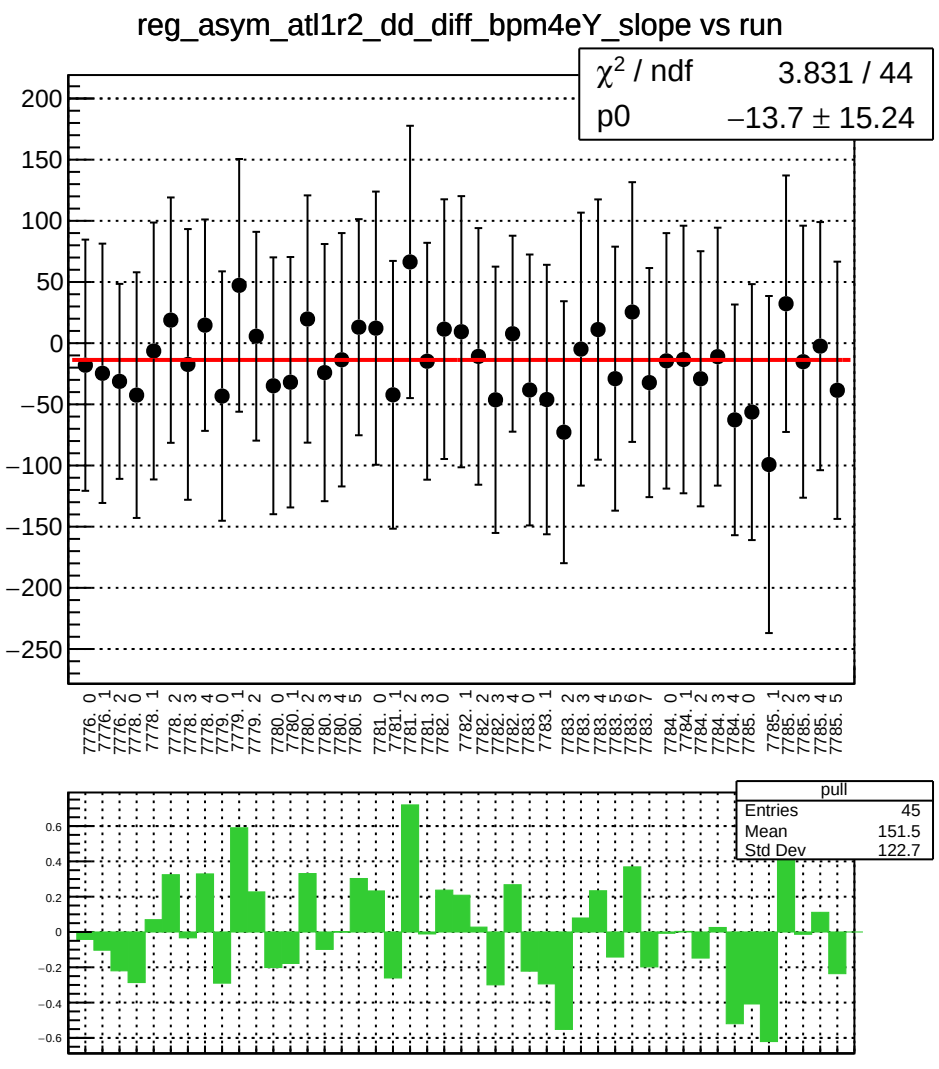

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.116 / 44
p0 116.4 ± 13.23
pull
Entries 45
Mean 103.7
Std Dev 90.44

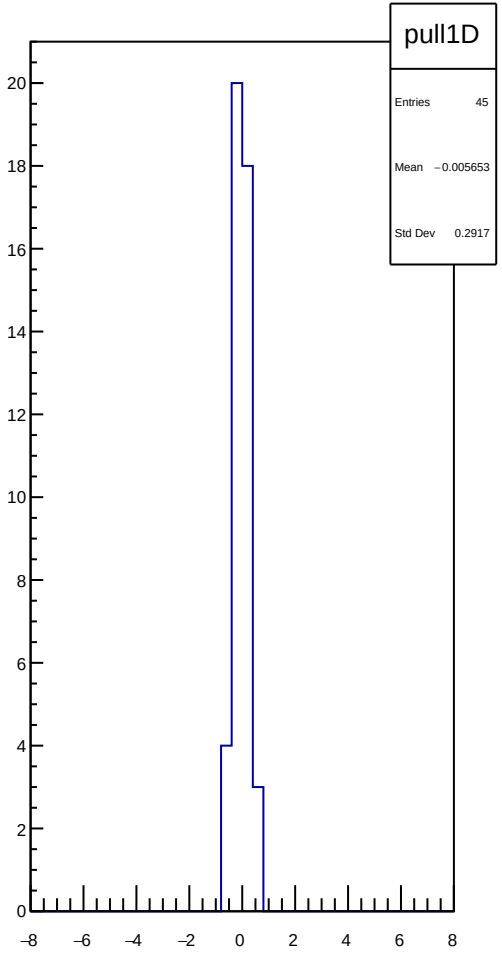

pull1D
Entries 45
Mean 0.006549
Std Dev 0.3024

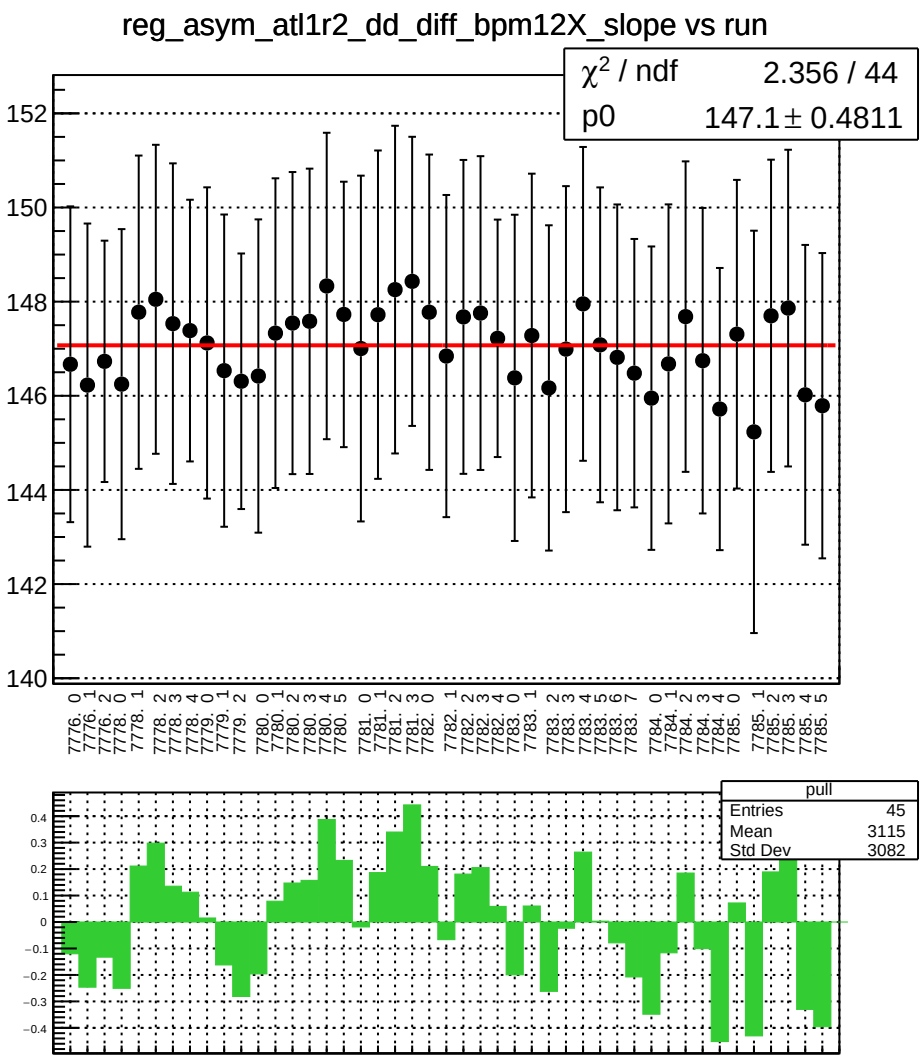

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.611 / 44
p0 −52.24 ± 13.5
150
100
50
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 169
Std Dev 141.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.005872
Std Dev 0.2832
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

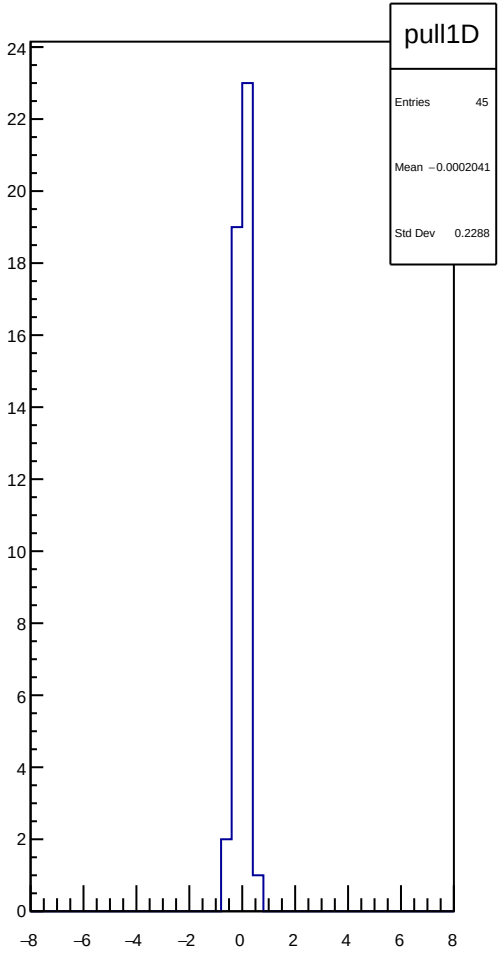

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.067 / 44
p0 −145 ± 11.52
pull
Entries 45
Mean 108.8
Std Dev 93.76

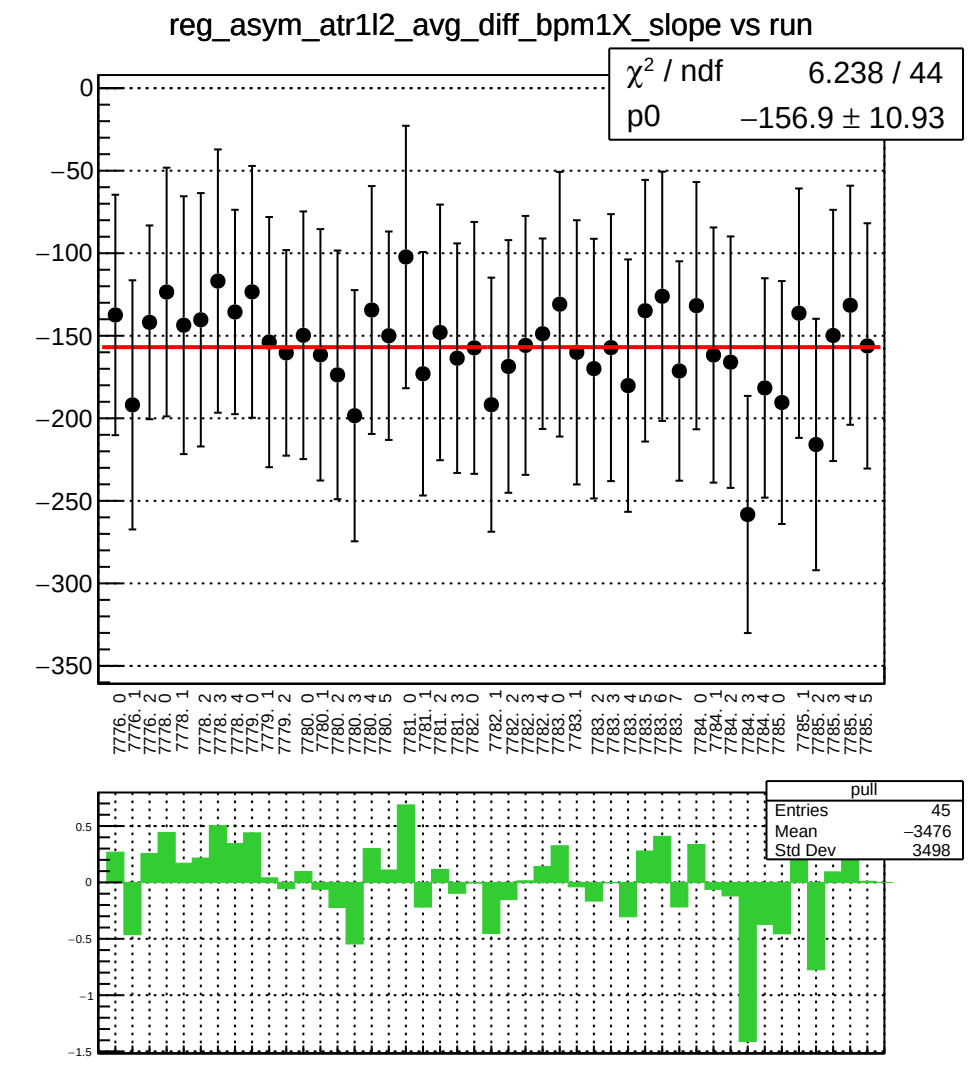

pull1D
Entries 45
Mean −0.007142
Std Dev 0.3005

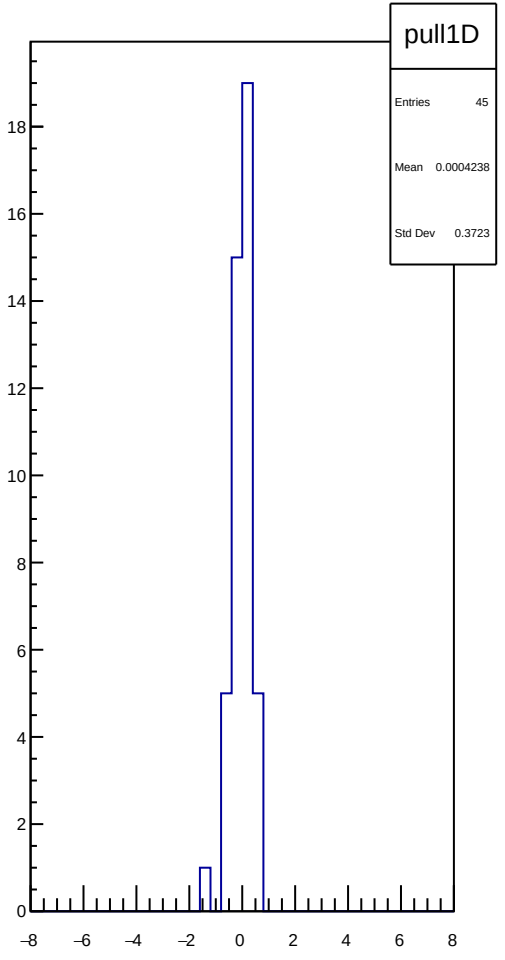

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.831 / 44
p0 −13.7 ± 15.24
pull
Entries 45
Mean 151.5
Std Dev 122.7

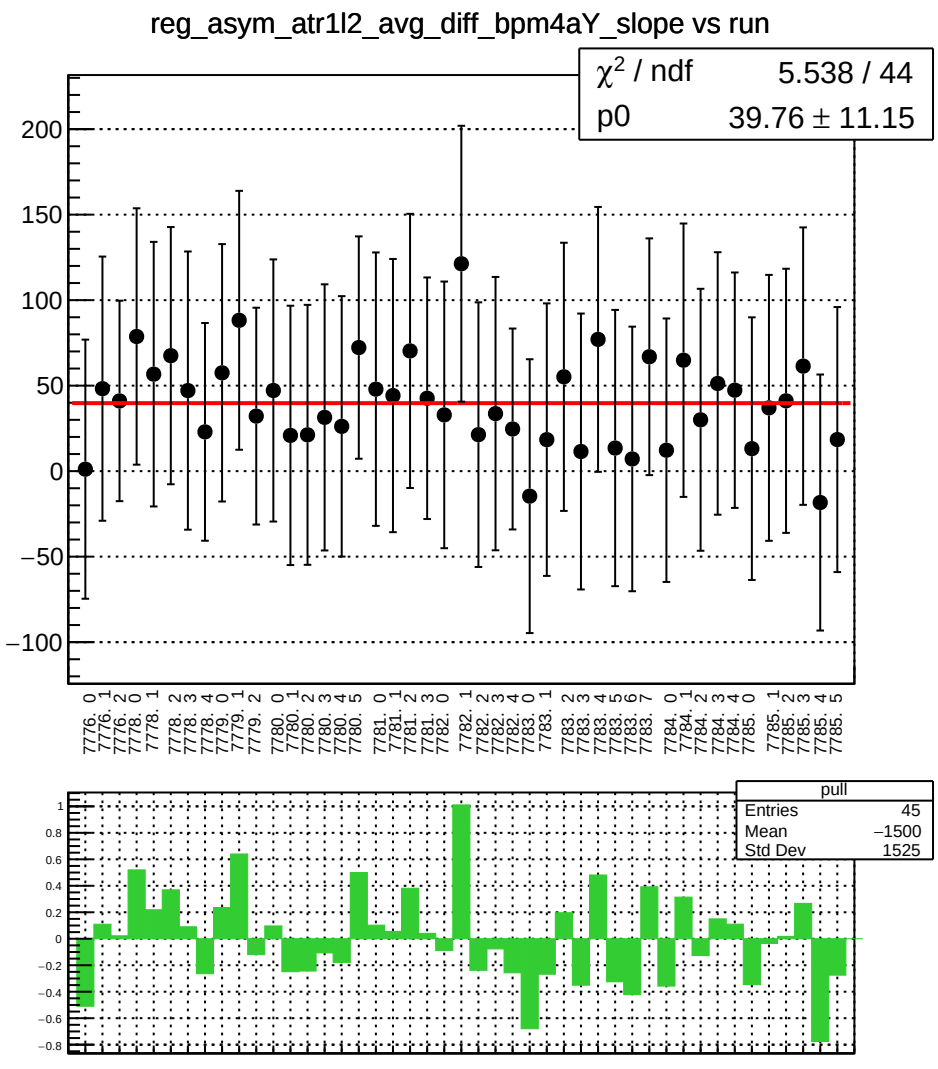

pull1D
Entries 45
Mean −0.005653
Std Dev 0.2917

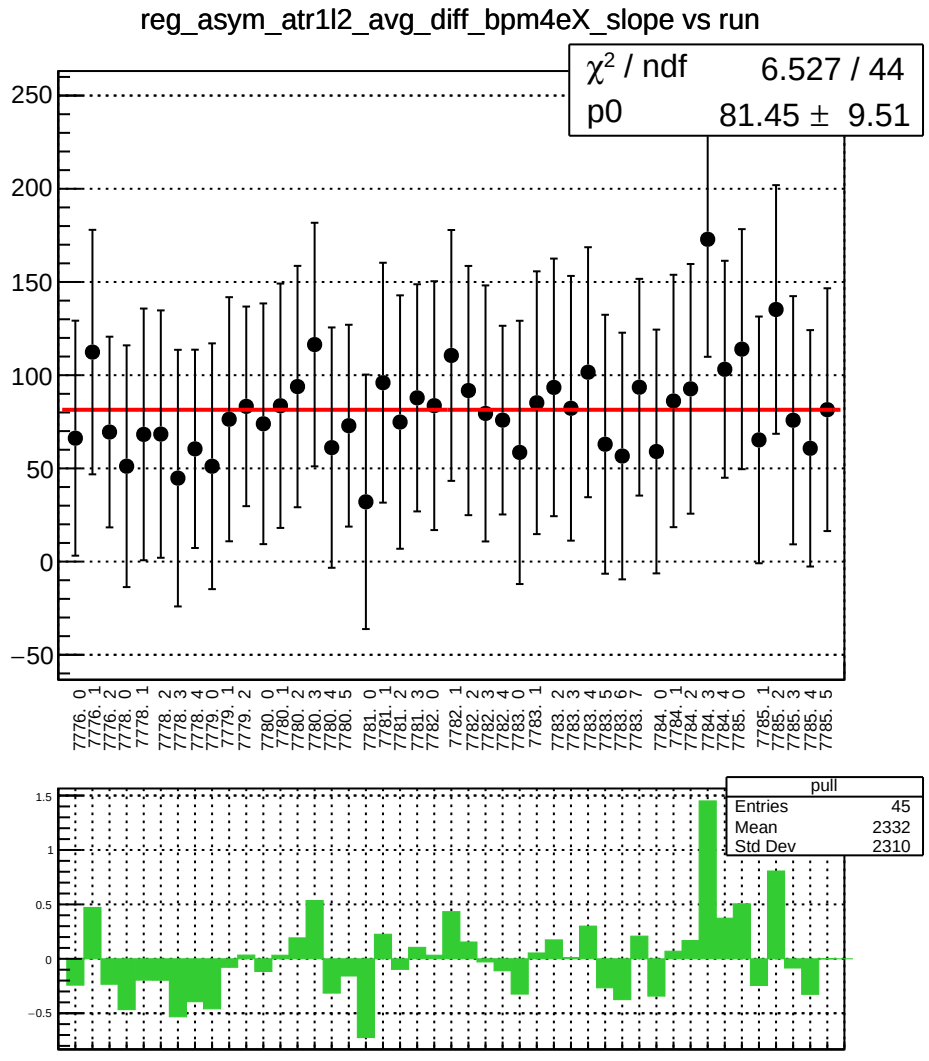

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 2.356 / 44
p0 147.1 ± 0.4811
pull
Entries 45
Mean 3115
Std Dev 3082

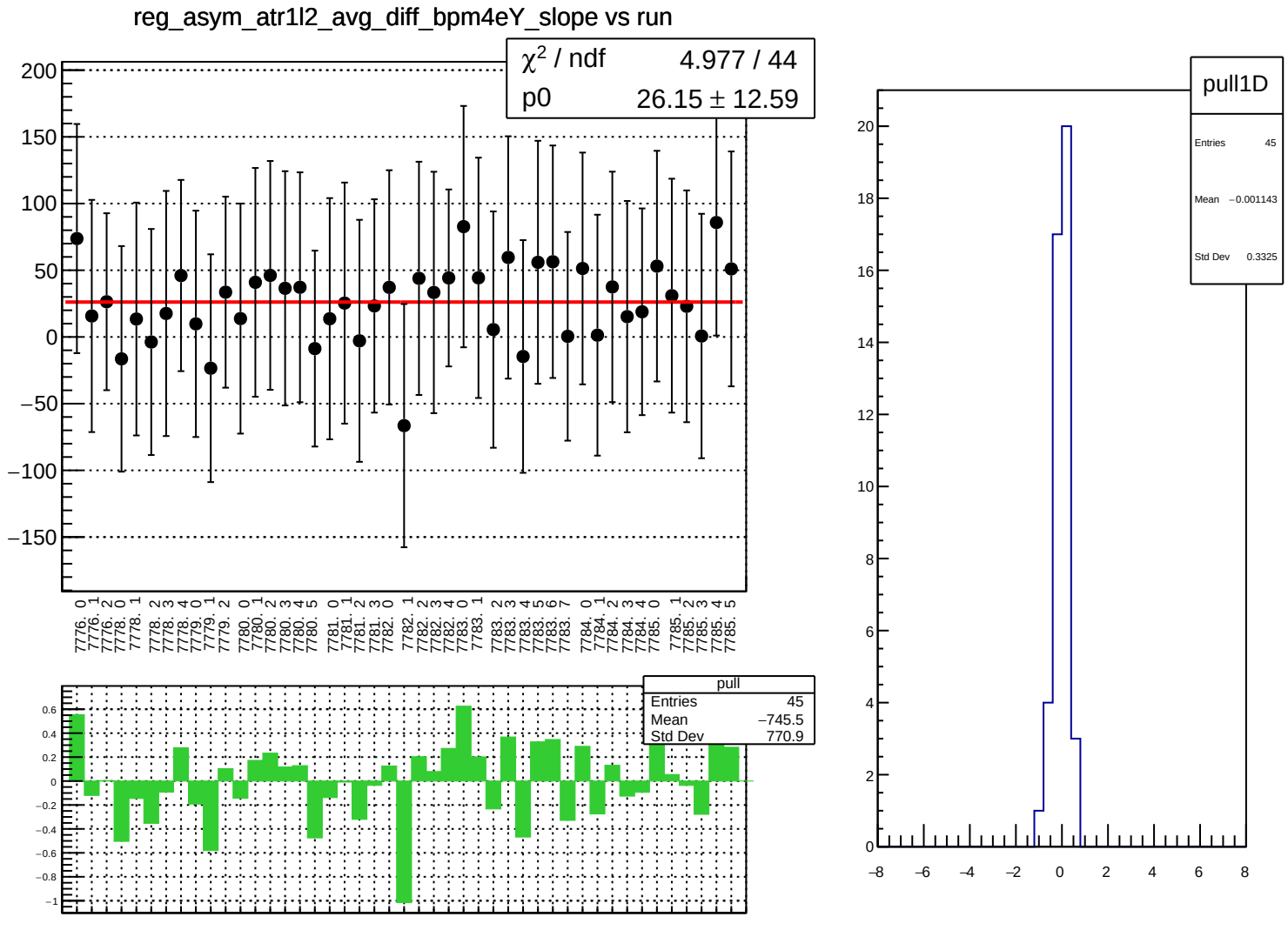

pull1D
Entries 45
Mean −0.0002041
Std Dev 0.2288

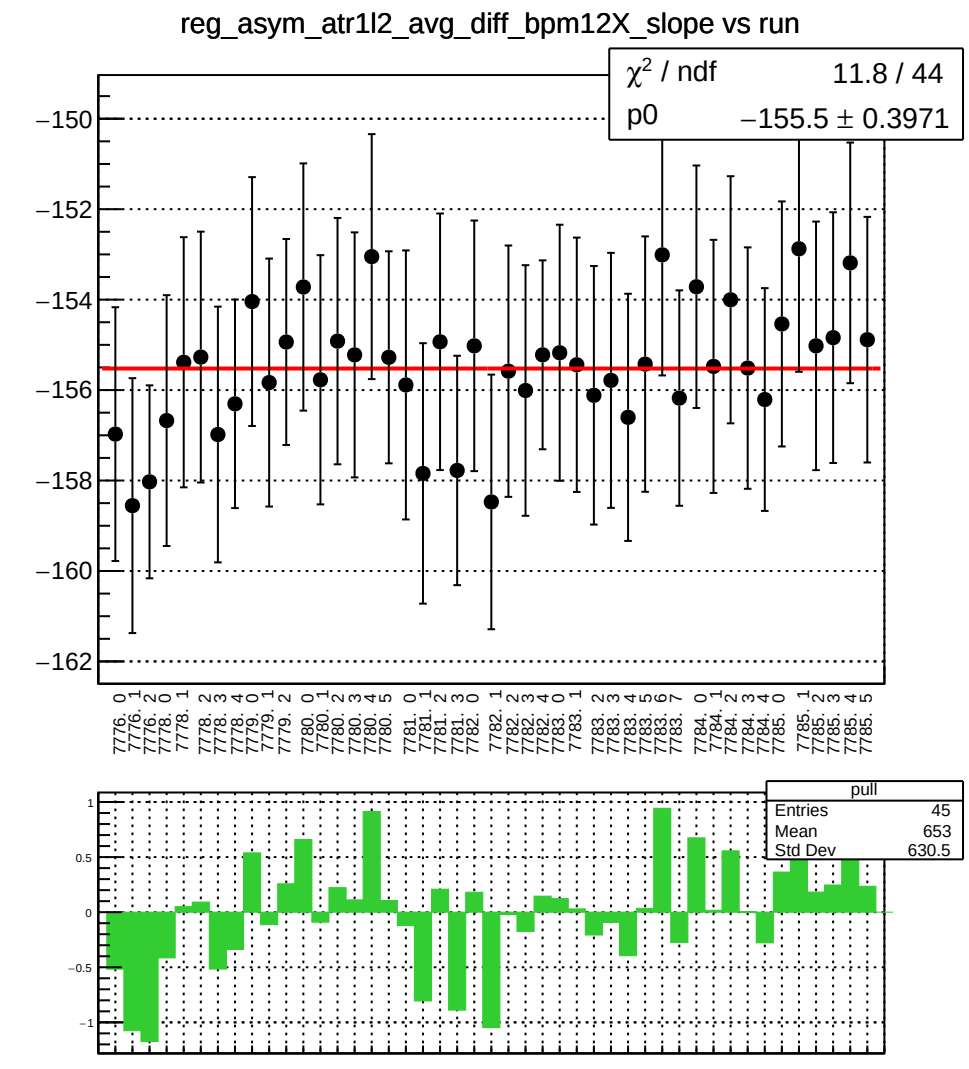

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 6.238 / 44
p0 −156.9 ± 10.93
pull
Entries 45
Mean −3476
Std Dev 3498

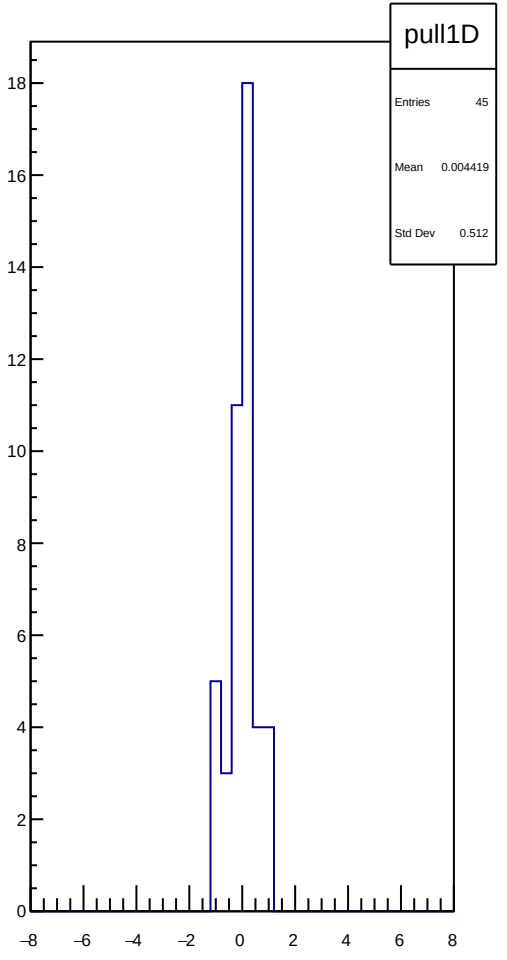

pull1D
Entries 45
Mean 0.0004238
Std Dev 0.3723

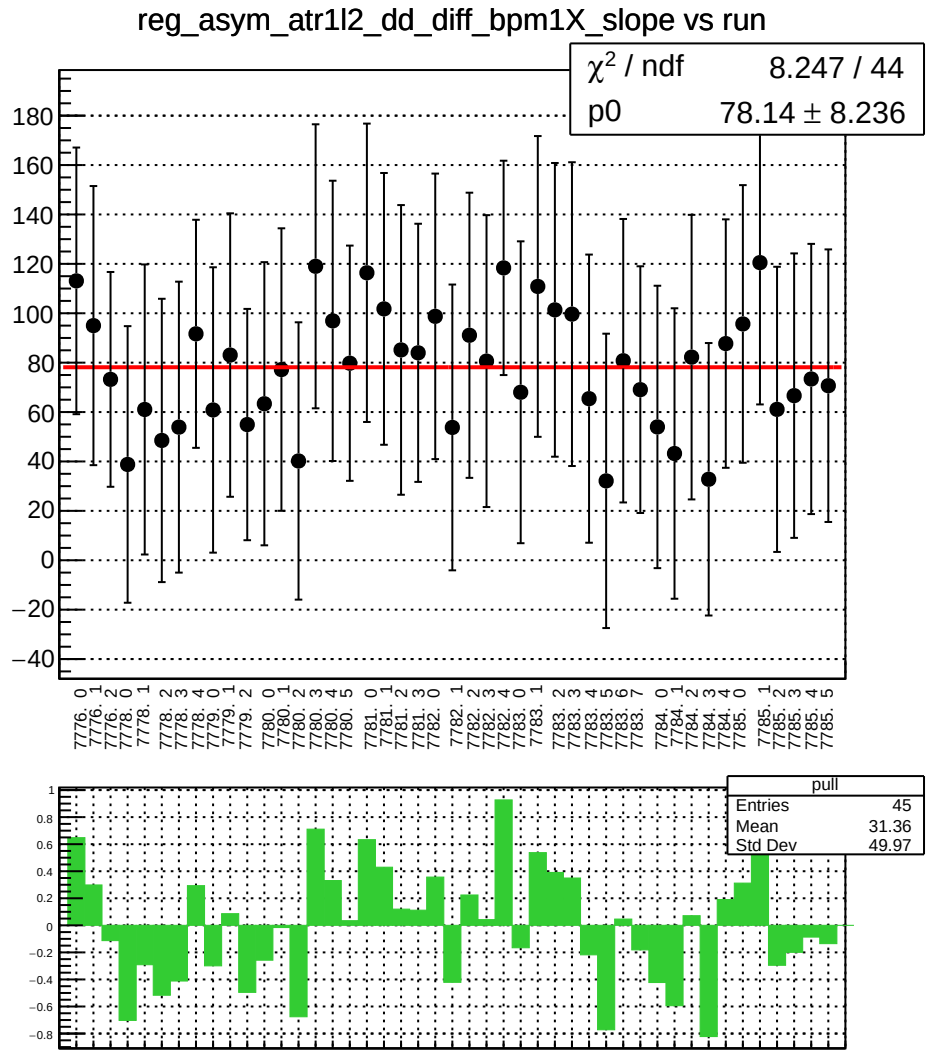

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.538 / 44
p0 39.76 ± 11.15
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −1500
Std Dev 1525
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 45
Mean 0.0006584
Std Dev 0.3508
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

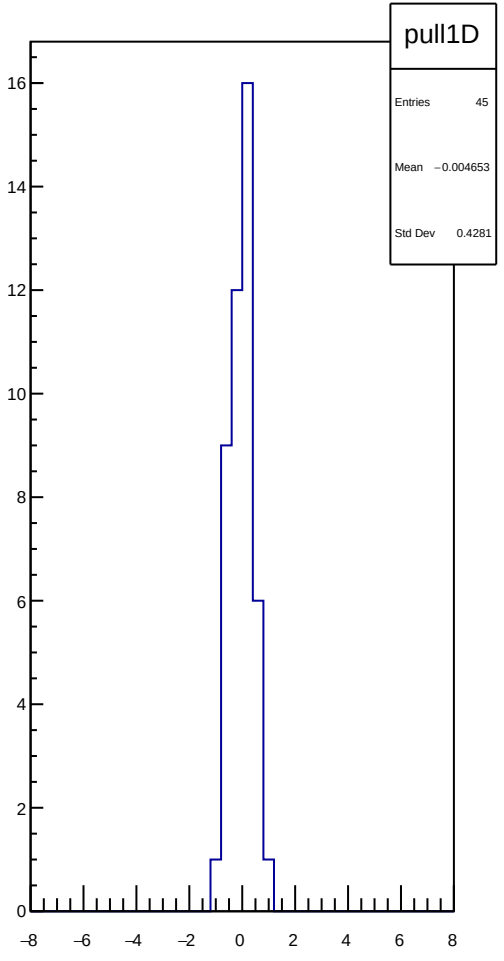

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.527 / 44
p0 81.45 ± 9.51
250
200
150
100
50
0
−50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 2332
Std Dev 2310
1.5
1
0.5
0
−0.5
pull1D
Entries 45
Mean 0.000716
Std Dev 0.3809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

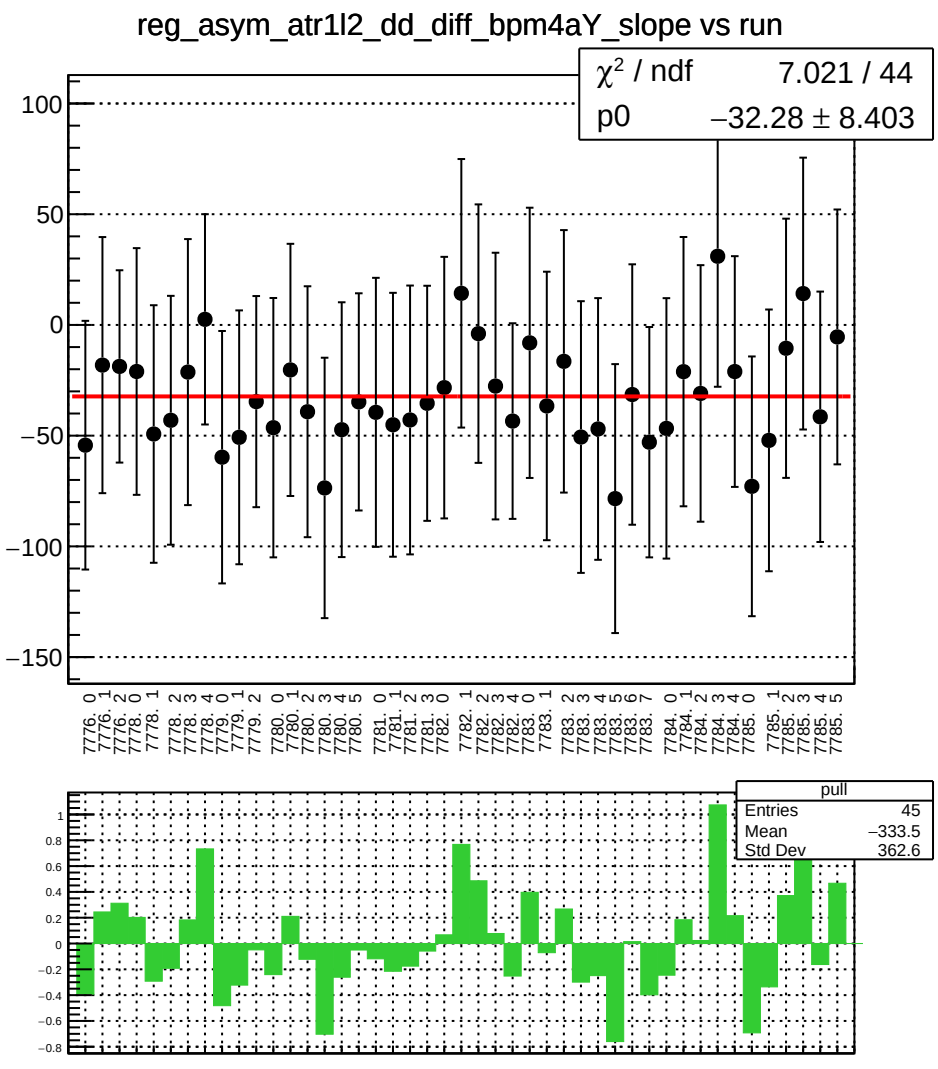

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.977 / 44
p0 26.15 ± 12.59
200
150
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −745.5
Std Dev 770.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean −0.001143
Std Dev 0.3325
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

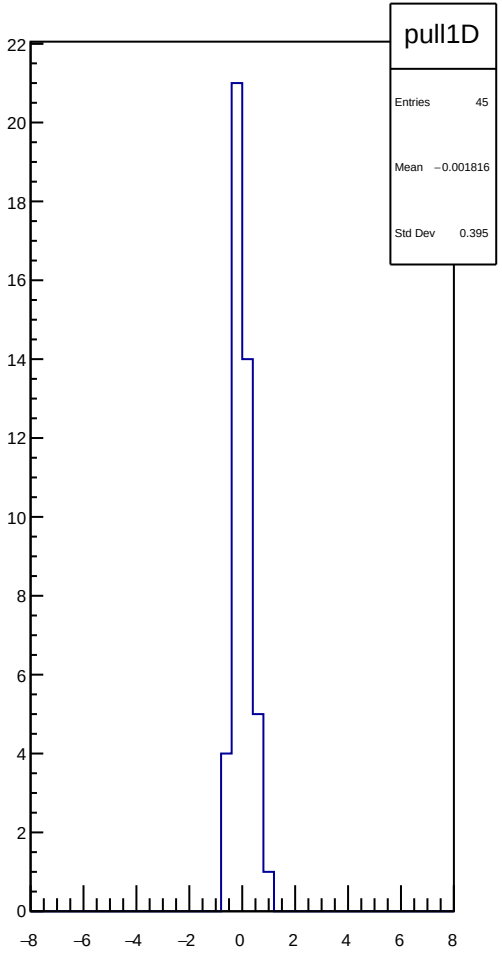

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.8 / 44
p0 −155.5 ± 0.3971
−150
−152
−154
−156
−158
−160
−162
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 653
Std Dev 630.5
1
0.5
0
−0.5
−1

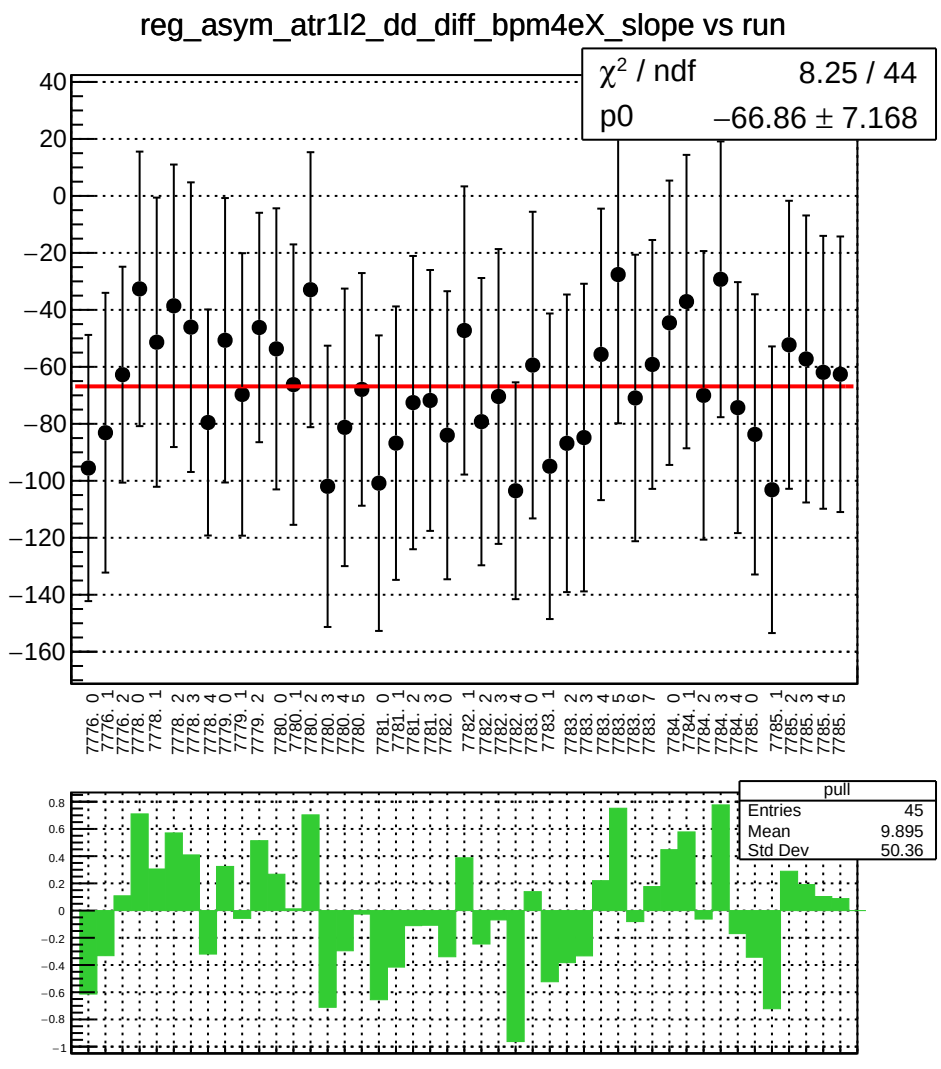

pull1D
Entries 45
Mean 0.004419
Std Dev 0.512
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

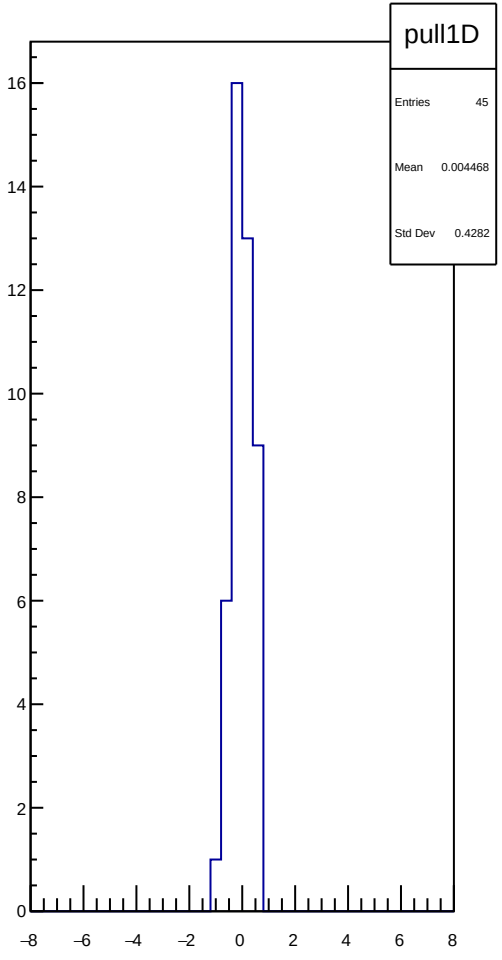

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.247 / 44
p0 78.14 ± 8.236
pull
Entries 45
Mean 31.36
Std Dev 49.97

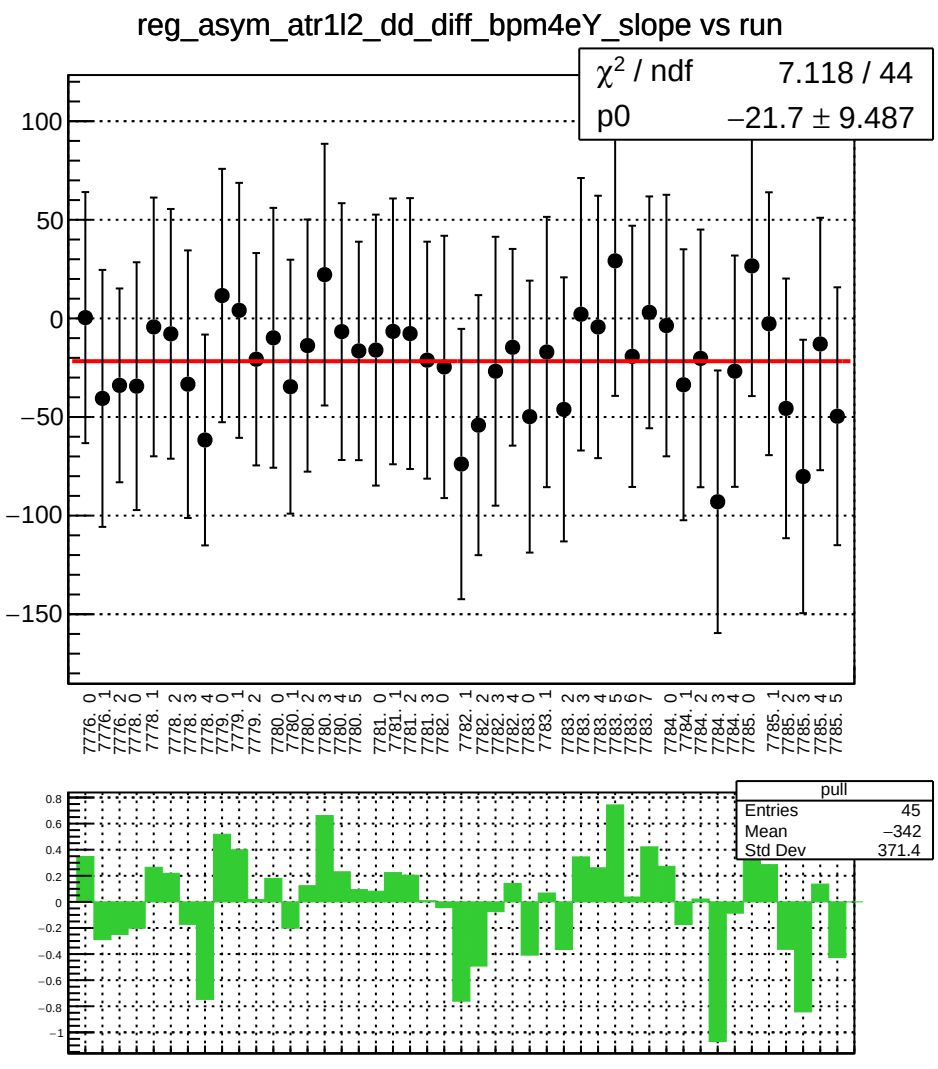

pull1D
Entries 45
Mean −0.004653
Std Dev 0.4281

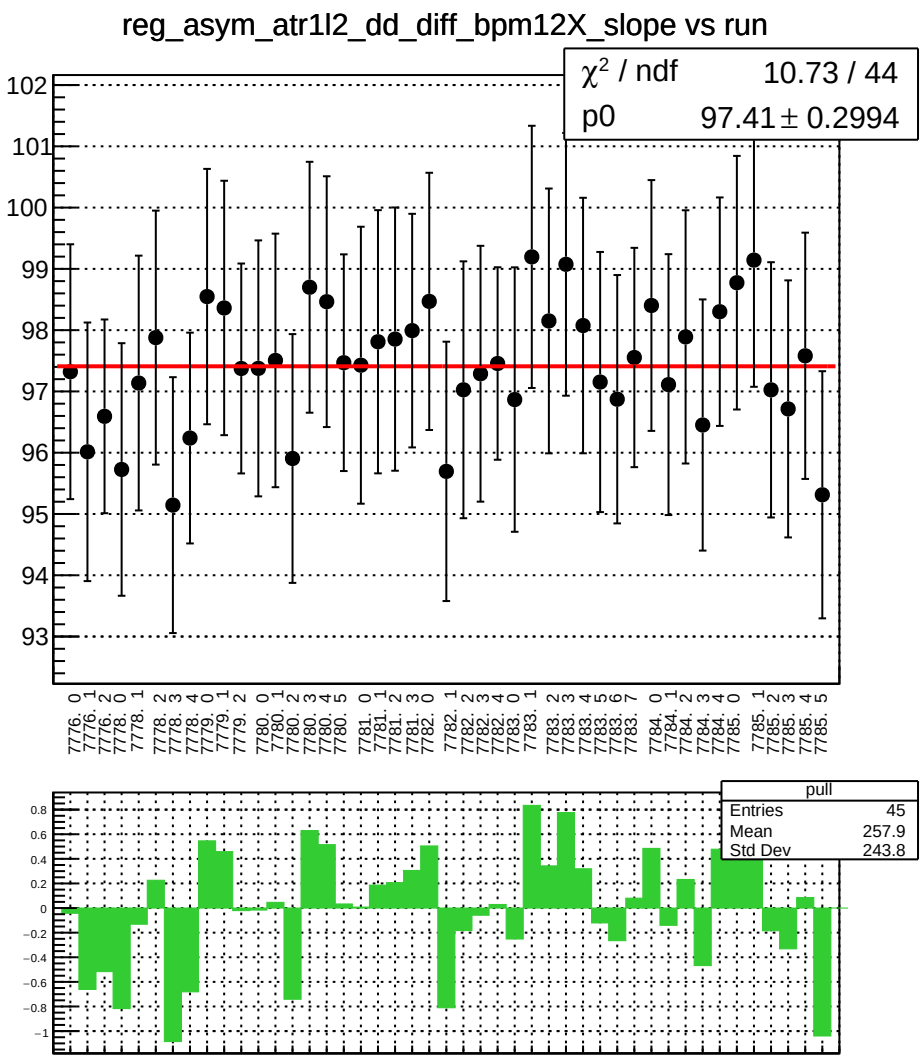

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.021 / 44
p0 −32.28 ± 8.403
pull
Entries 45
Mean −333.5
Std Dev 362.6

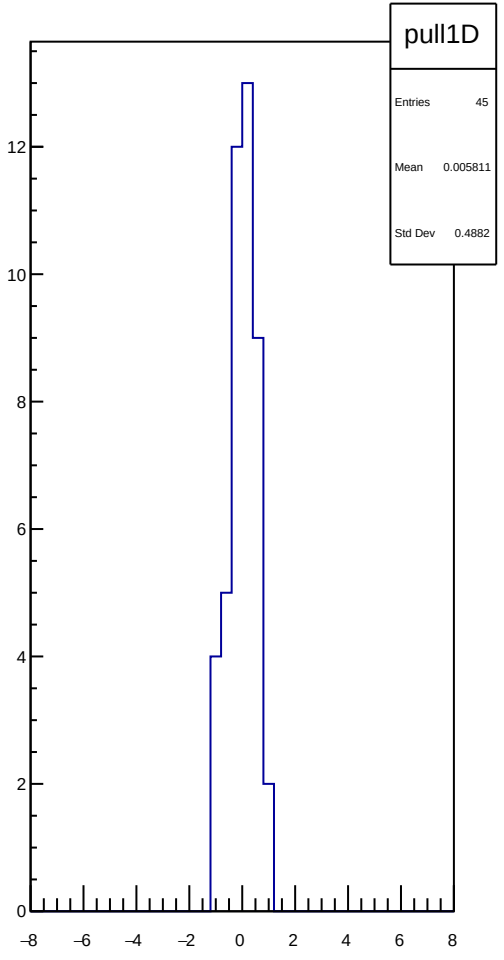

pull1D
Entries 45
Mean −0.001816
Std Dev 0.395

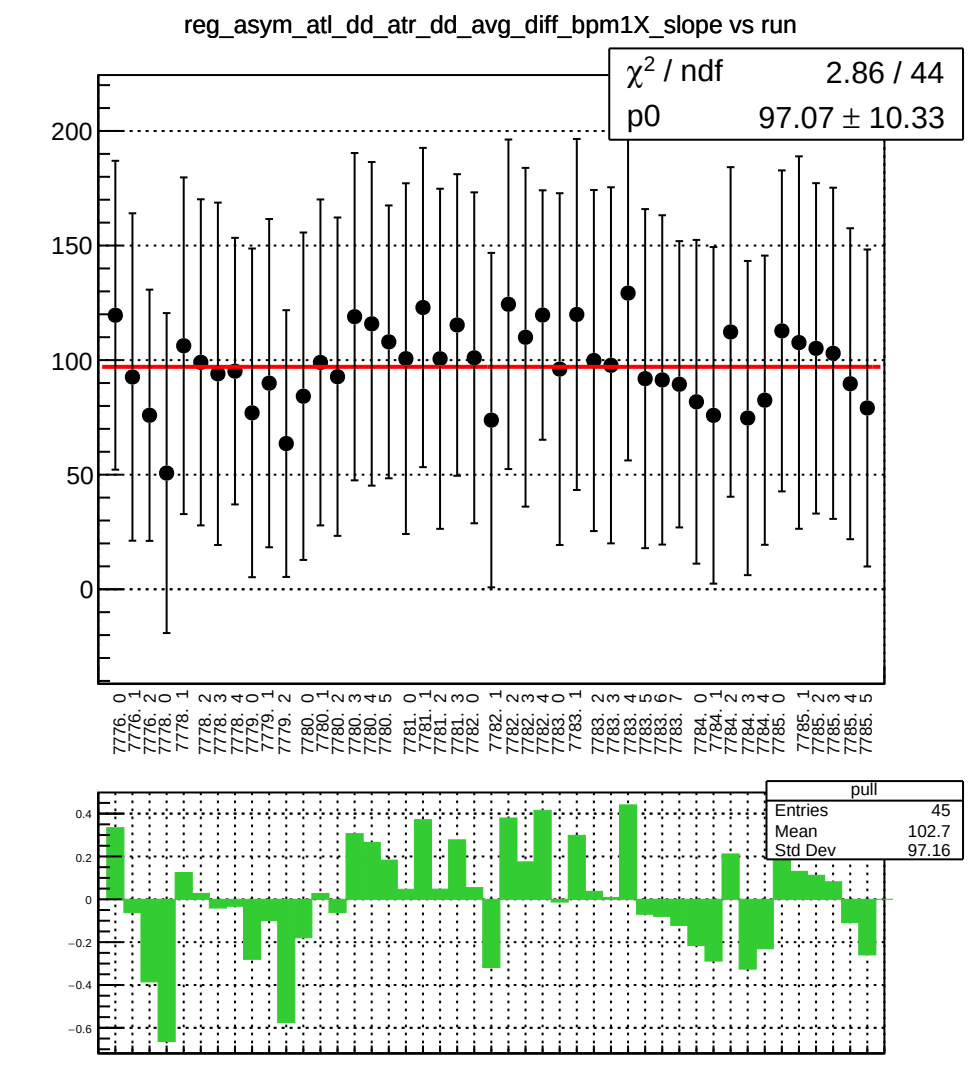

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.25 / 44
p0 −66.86 ± 7.168
pull
Entries 45
Mean 9.895
Std Dev 50.36

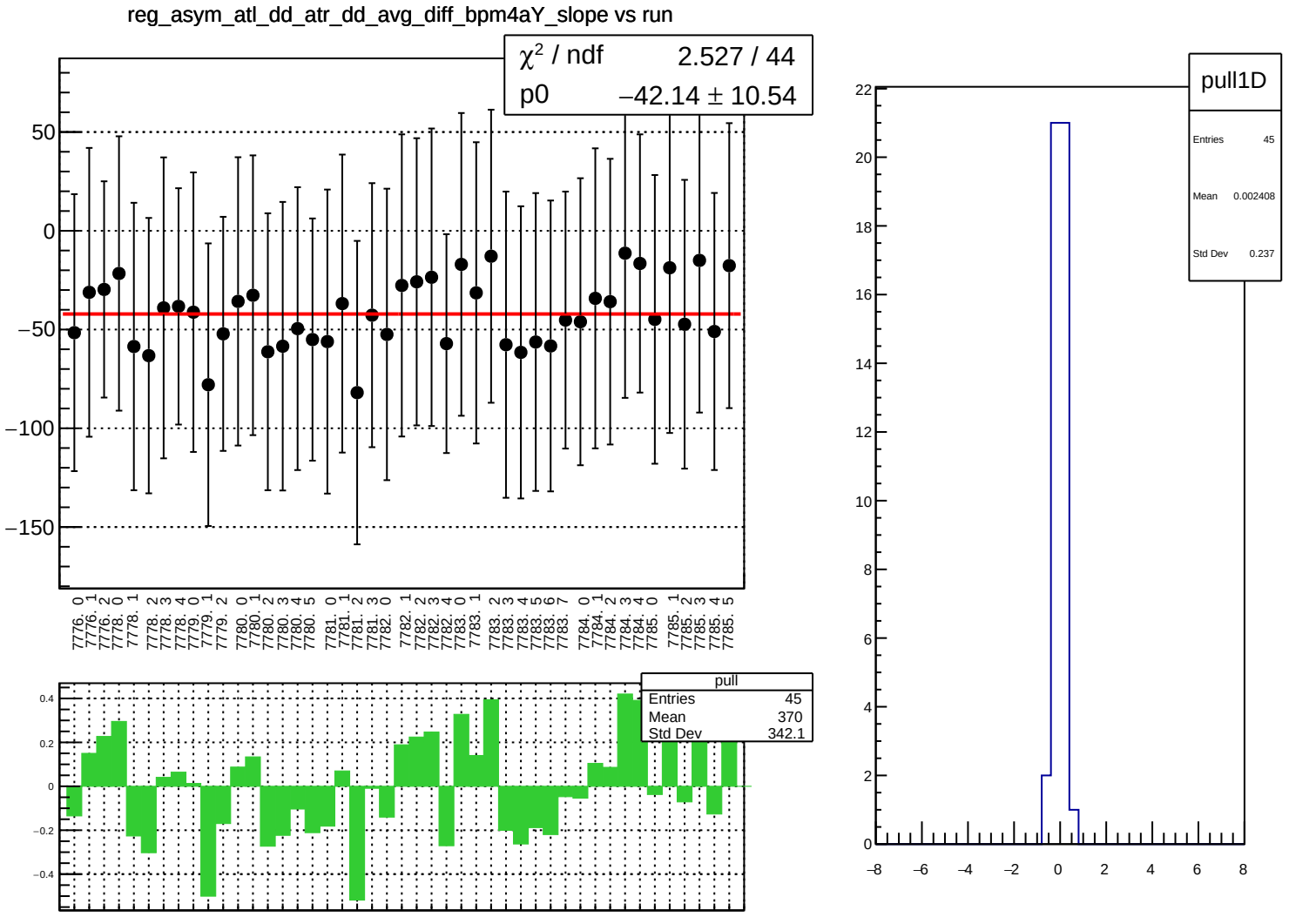

pull1D
Entries 45
Mean 0.004468
Std Dev 0.4282

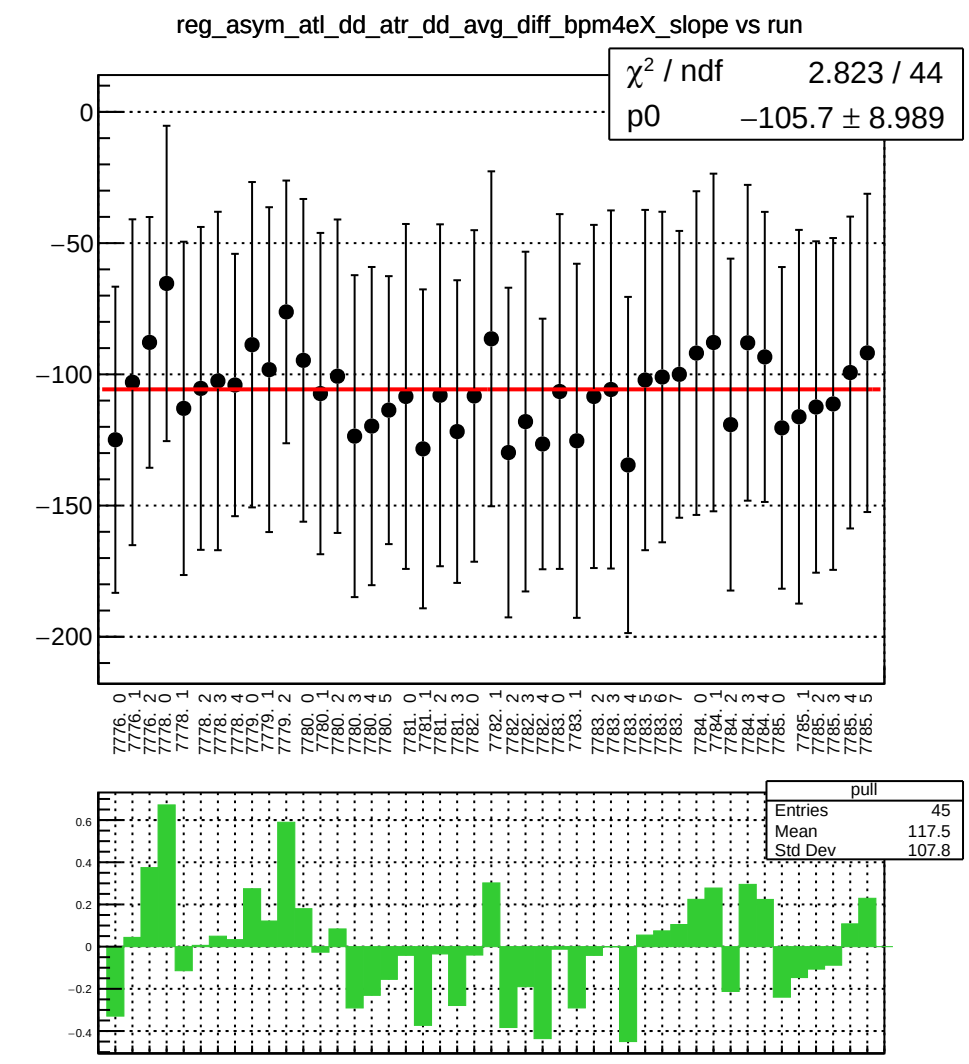

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.118 / 44
p0 −21.7 ± 9.487
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −342
Std Dev 371.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.001629
Std Dev 0.3977
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

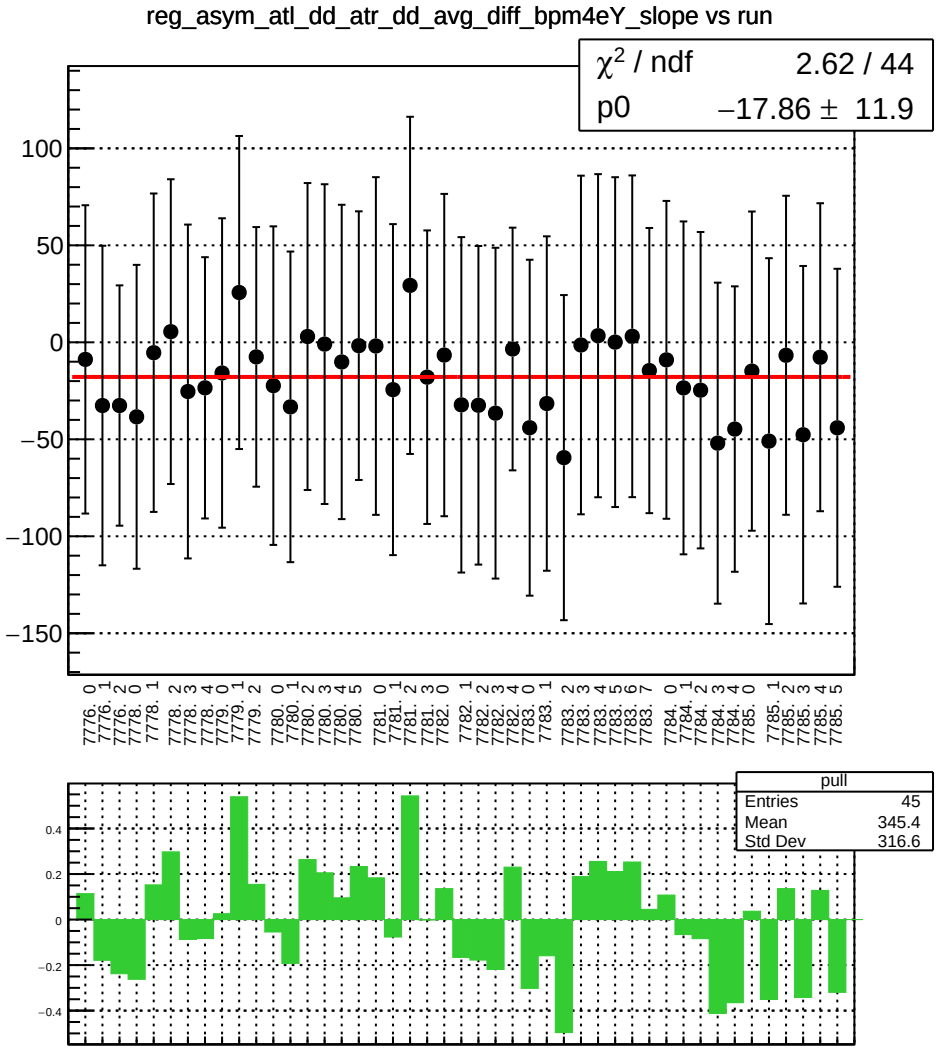

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 10.73 / 44
p0 97.41 ± 0.2994
pull
Entries 45
Mean 257.9
Std Dev 243.8

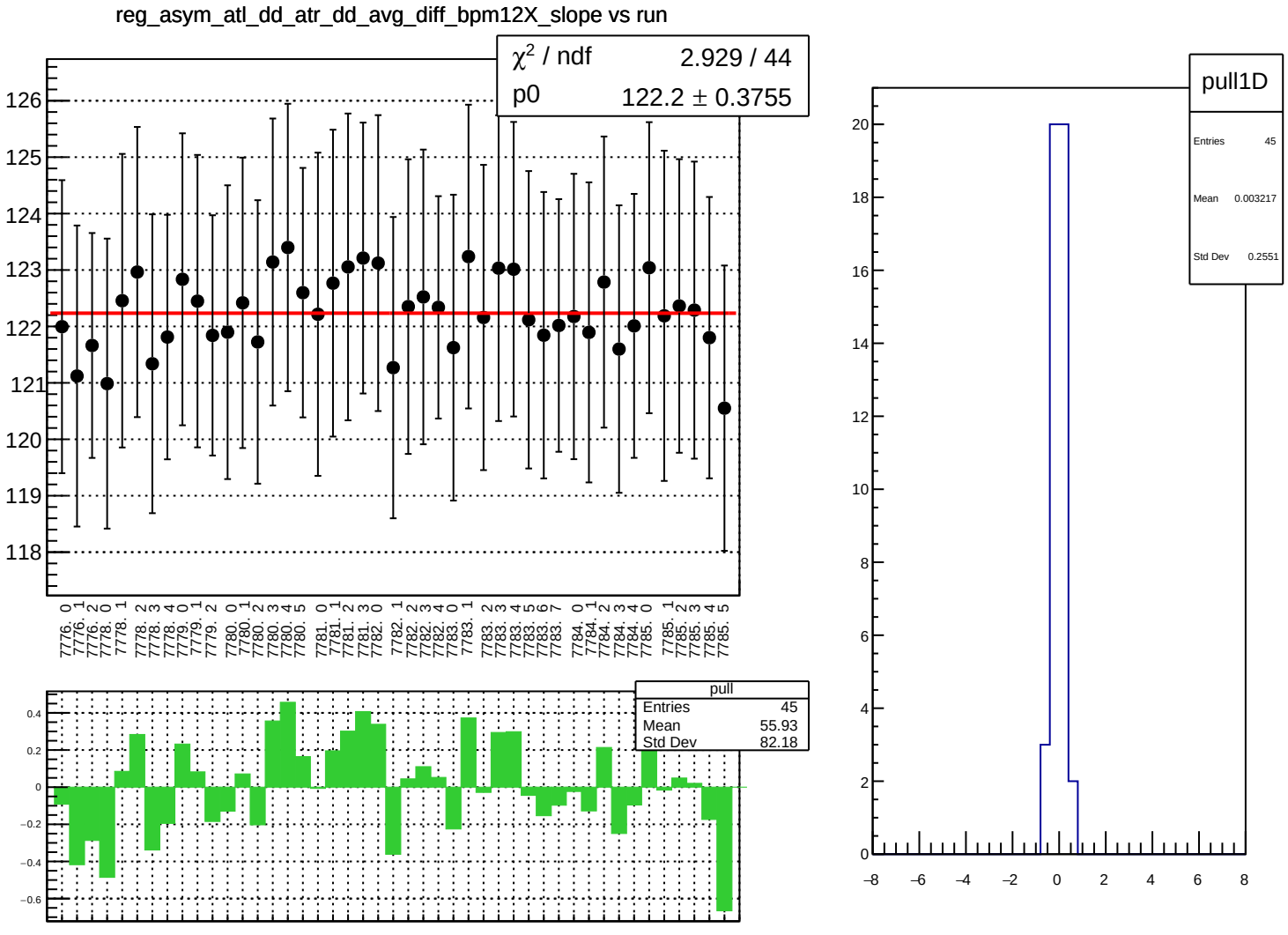

pull1D
Entries 45
Mean 0.005811
Std Dev 0.4882

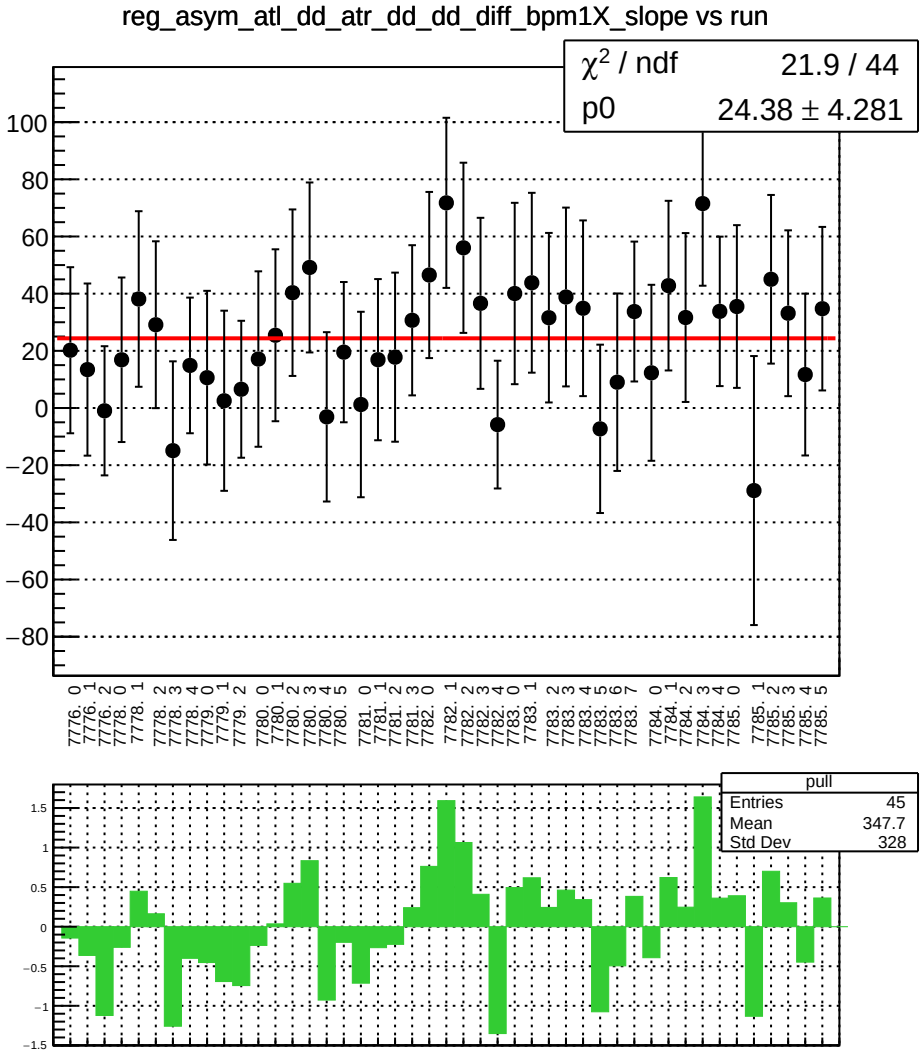

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 2.86 / 44
p0 97.07 ± 10.33
200
150
100
50
0
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 102.7
Std Dev 97.16
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.003771
Std Dev 0.2521
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

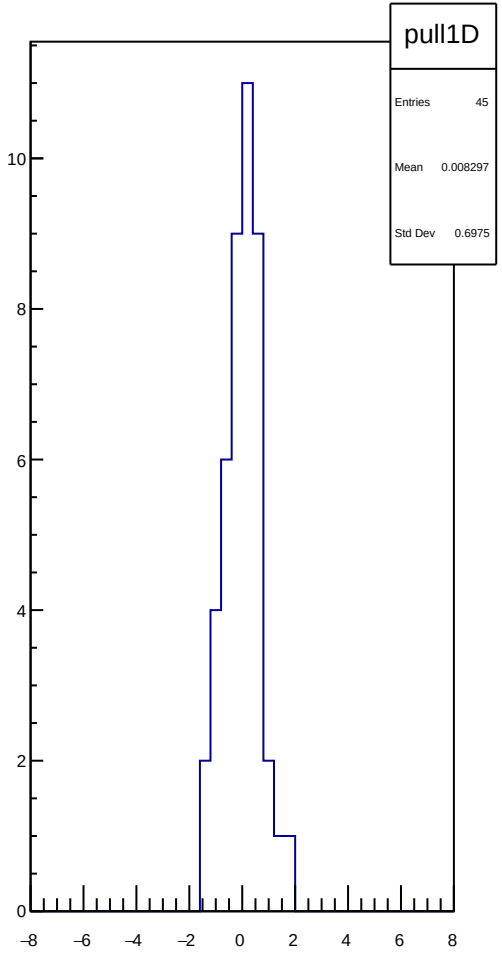

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.527 / 44
p0 −42.14 ± 10.54
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 370
Std Dev 342.1
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean 0.002408
Std Dev 0.237
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

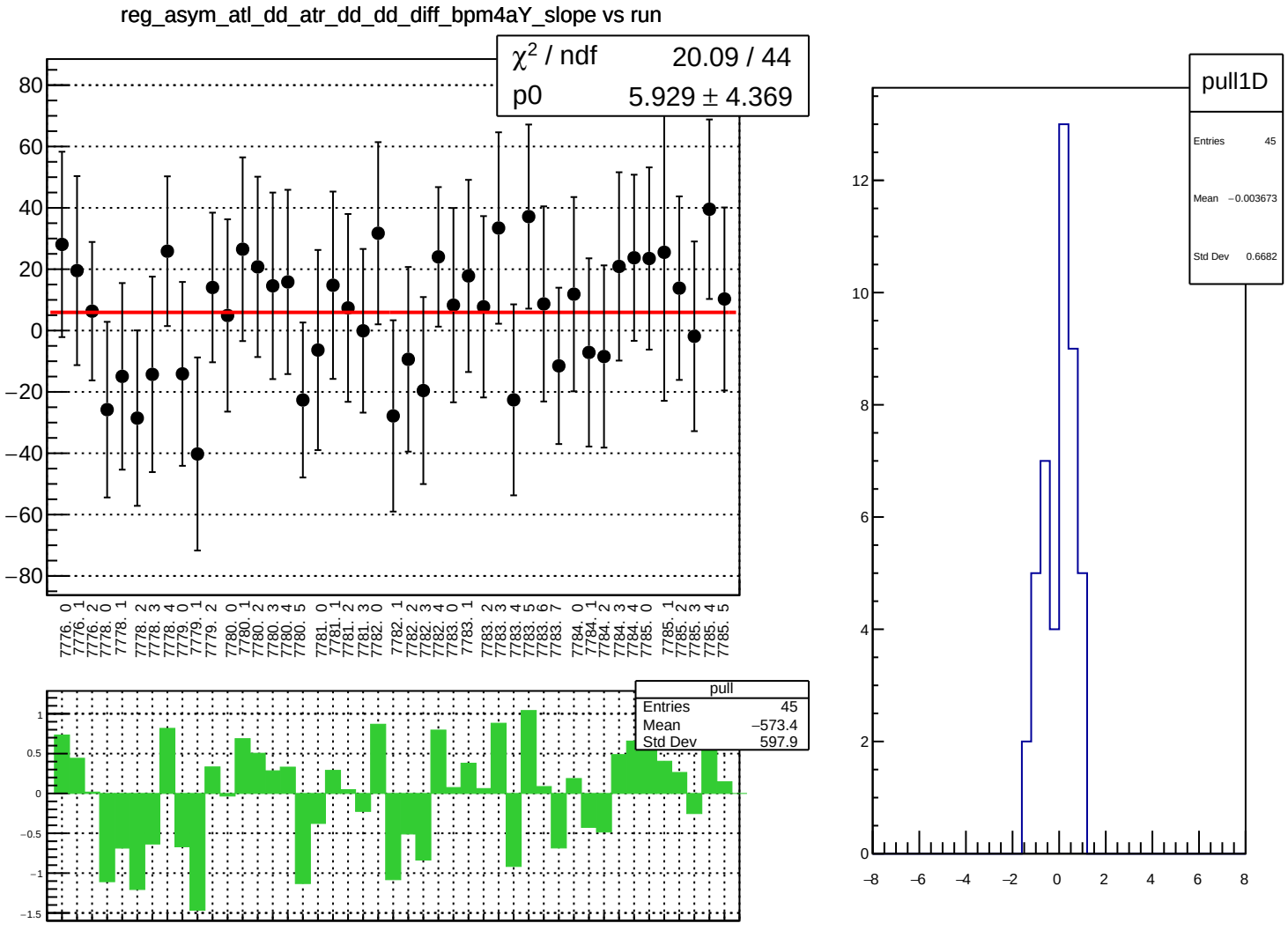

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.823 / 44
p0 −105.7 ± 8.989
0
−50
−100
−150
−200
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 117.5
Std Dev 107.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.004177
Std Dev 0.2504
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

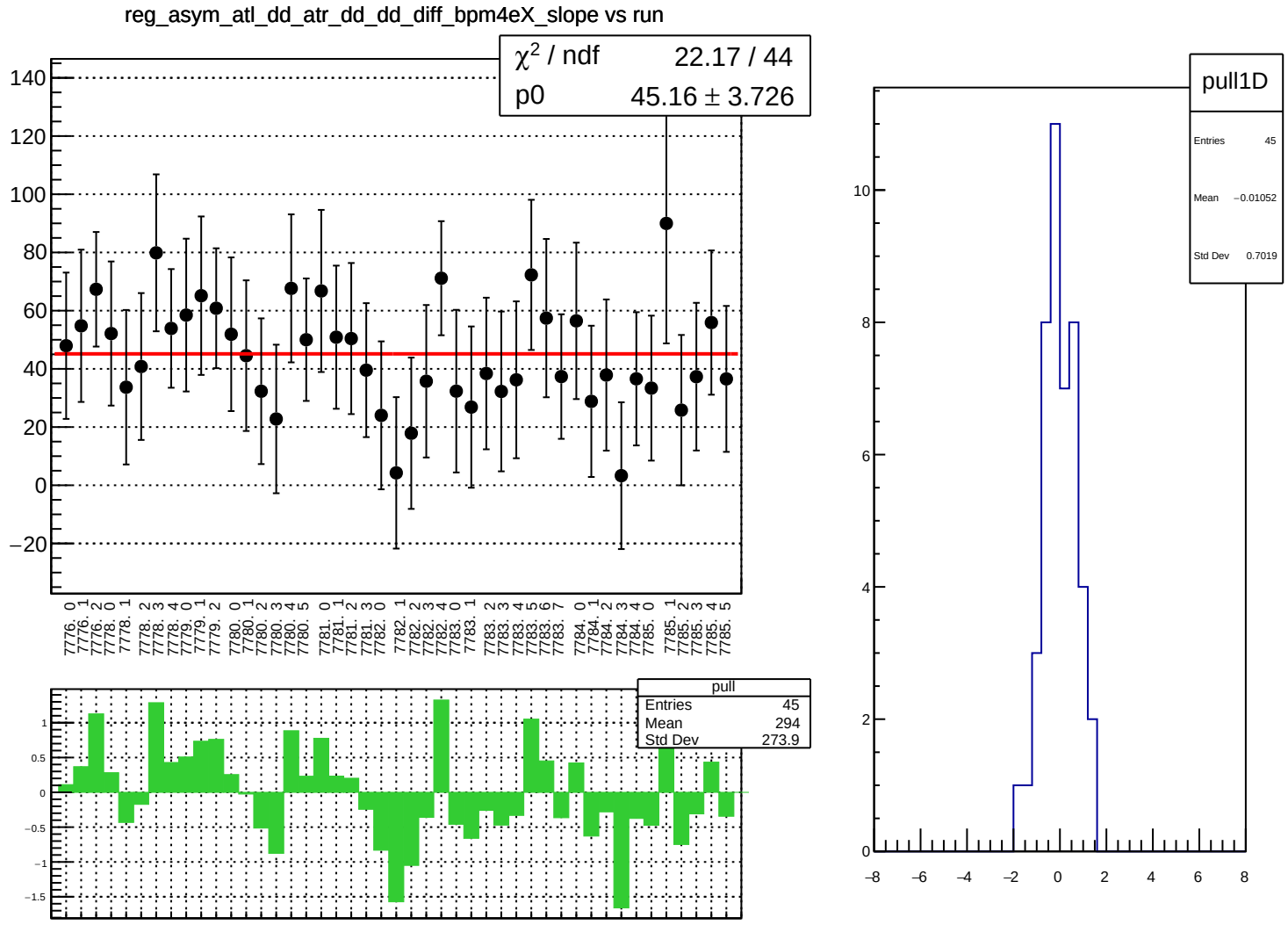

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.62 / 44
p0 −17.86 ± 11.9
100
50
0
−50
−100
−150
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 345.4
Std Dev 316.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.002271
Std Dev 0.2413
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

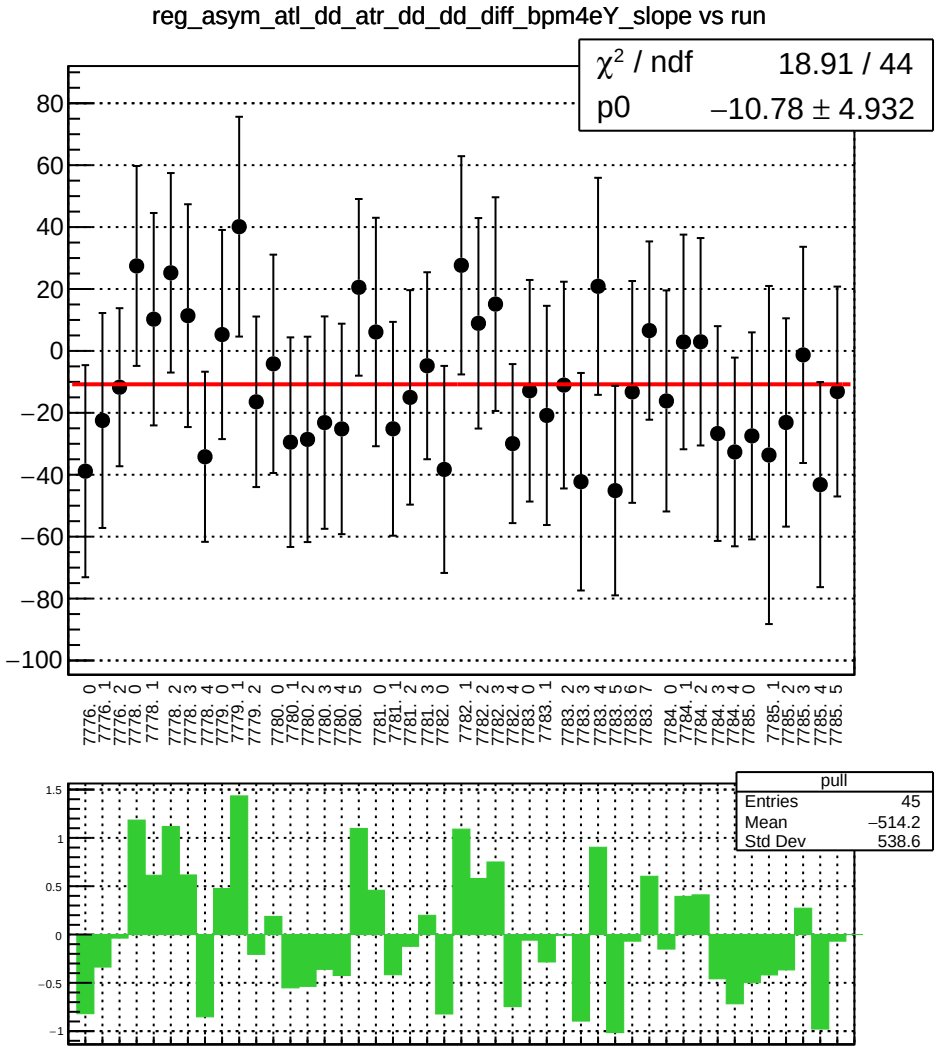

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 2.929 / 44
p0 122.2 ± 0.3755
pull
Entries 45
Mean 55.93
Std Dev 82.18
pull1D
Entries 45
Mean 0.003217
Std Dev 0.2551

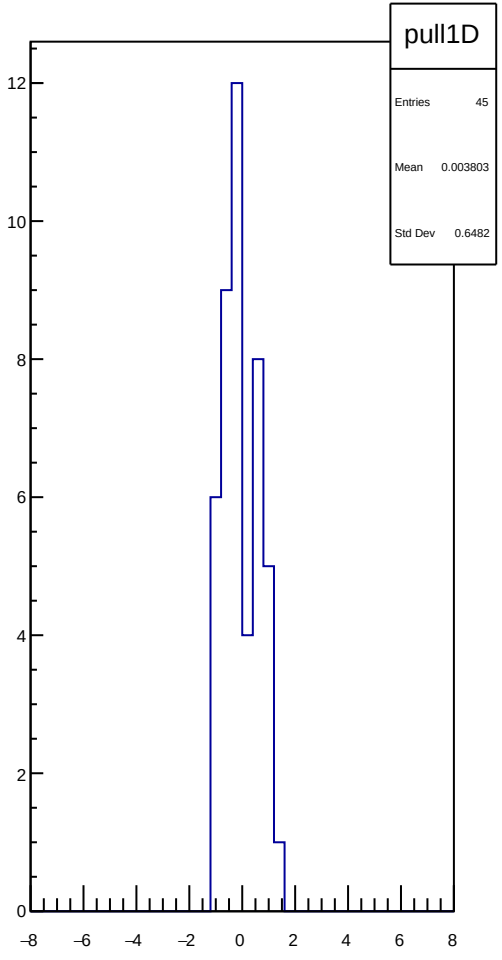

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.9 / 44
p0 24.38 ± 4.281
pull
Entries 45
Mean 347.7
Std Dev 328

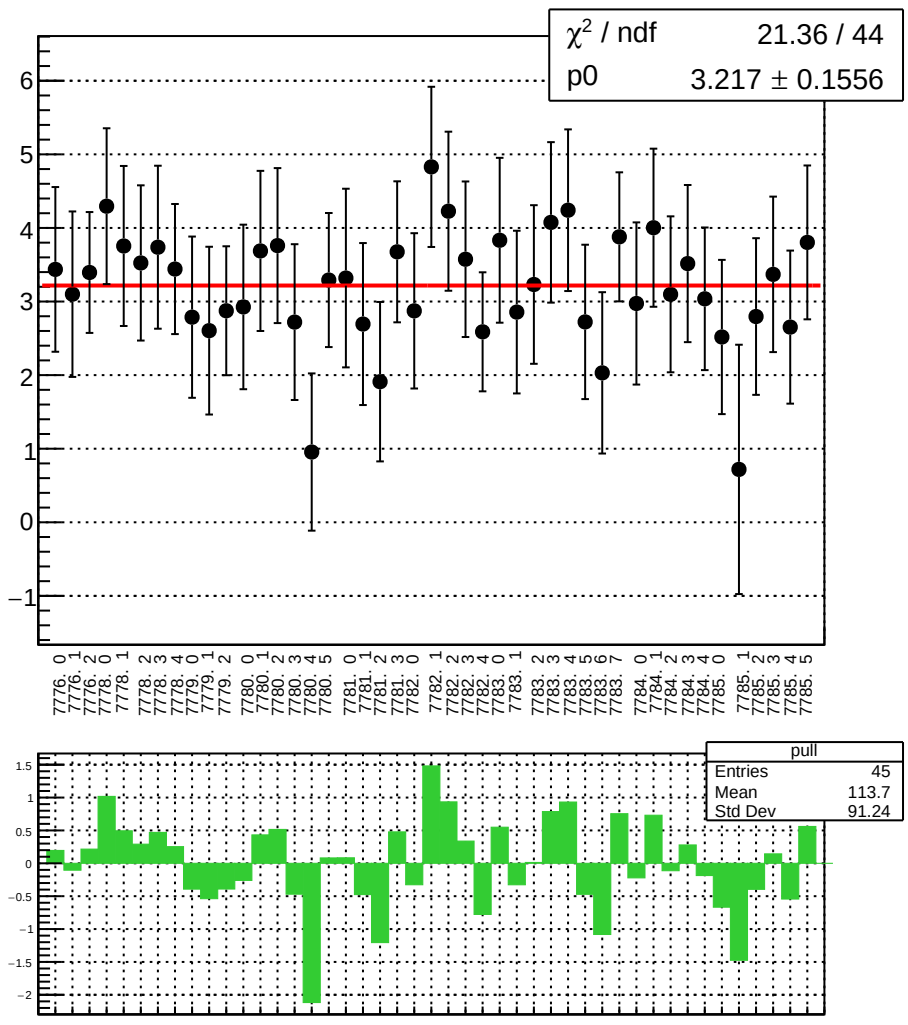

pull1D
Entries 45
Mean 0.008297
Std Dev 0.6975

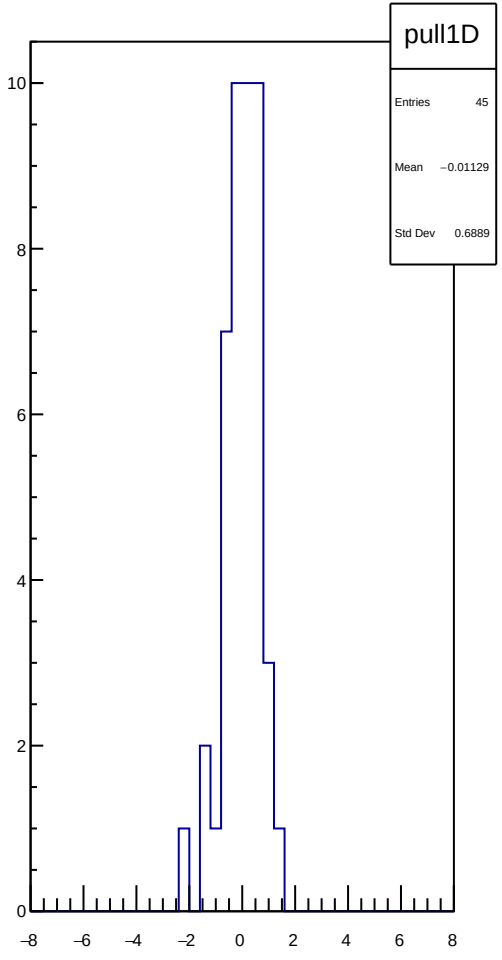

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.09 / 44
p0 5.929 ± 4.369
pull
Entries 45
Mean −573.4
Std Dev 597.9
pull1D
Entries 45
Mean −0.003673
Std Dev 0.6682

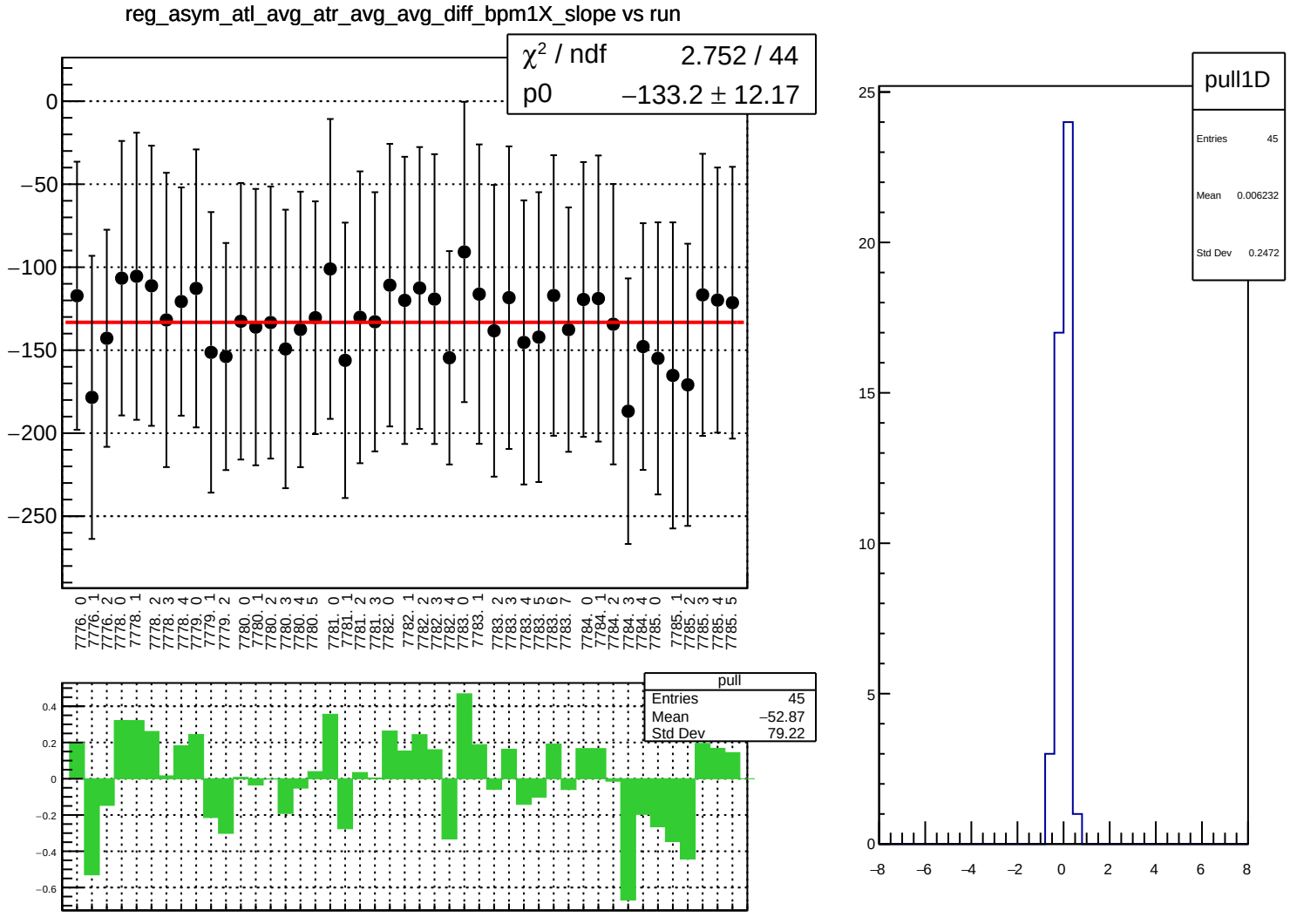

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.17 / 44
p0 45.16 ± 3.726
140
120
100
80
60
40
20
0
−20
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 294
Std Dev 273.9
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 45
Mean −0.01052
Std Dev 0.7019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

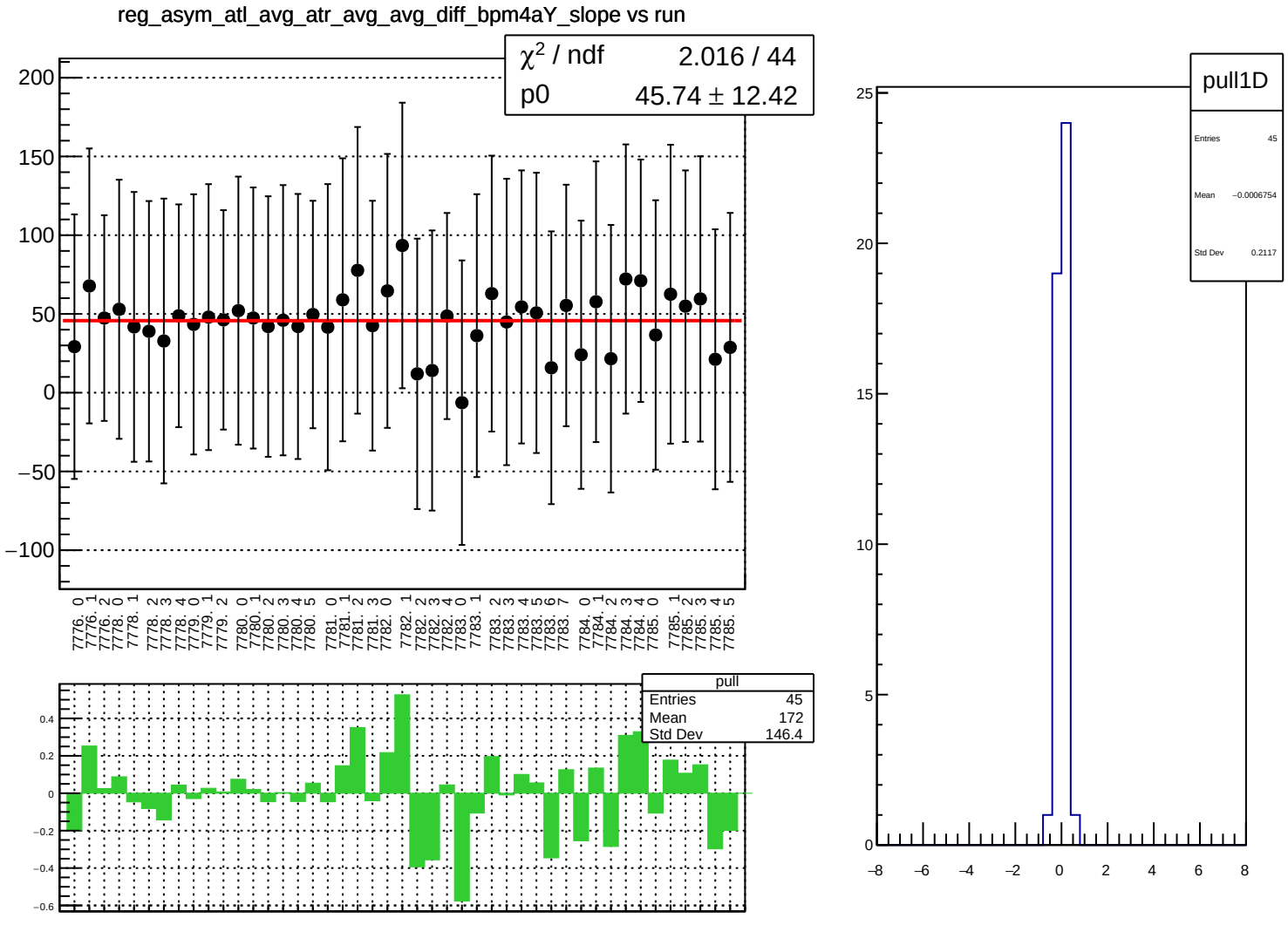

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.91 / 44
p0 −10.78 ± 4.932
pull
Entries 45
Mean −514.2
Std Dev 538.6

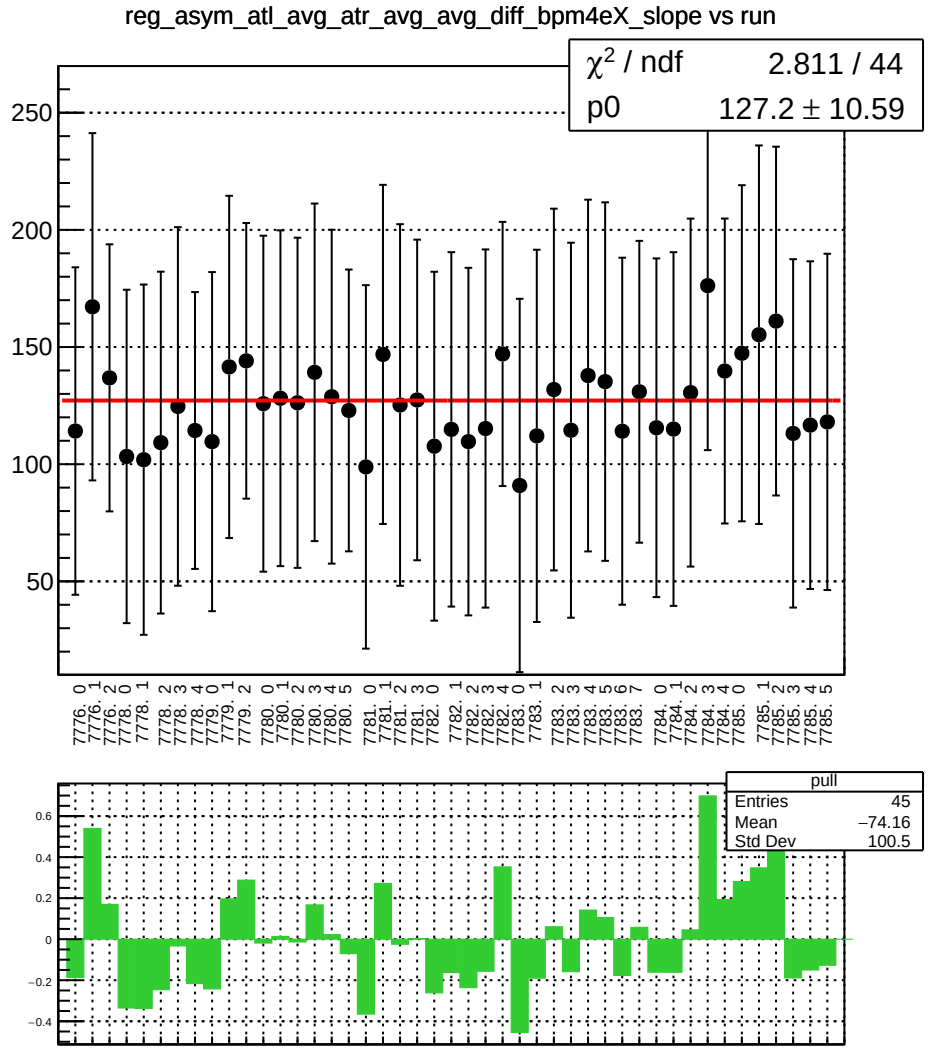

pull1D
Entries 45
Mean 0.003803
Std Dev 0.6482

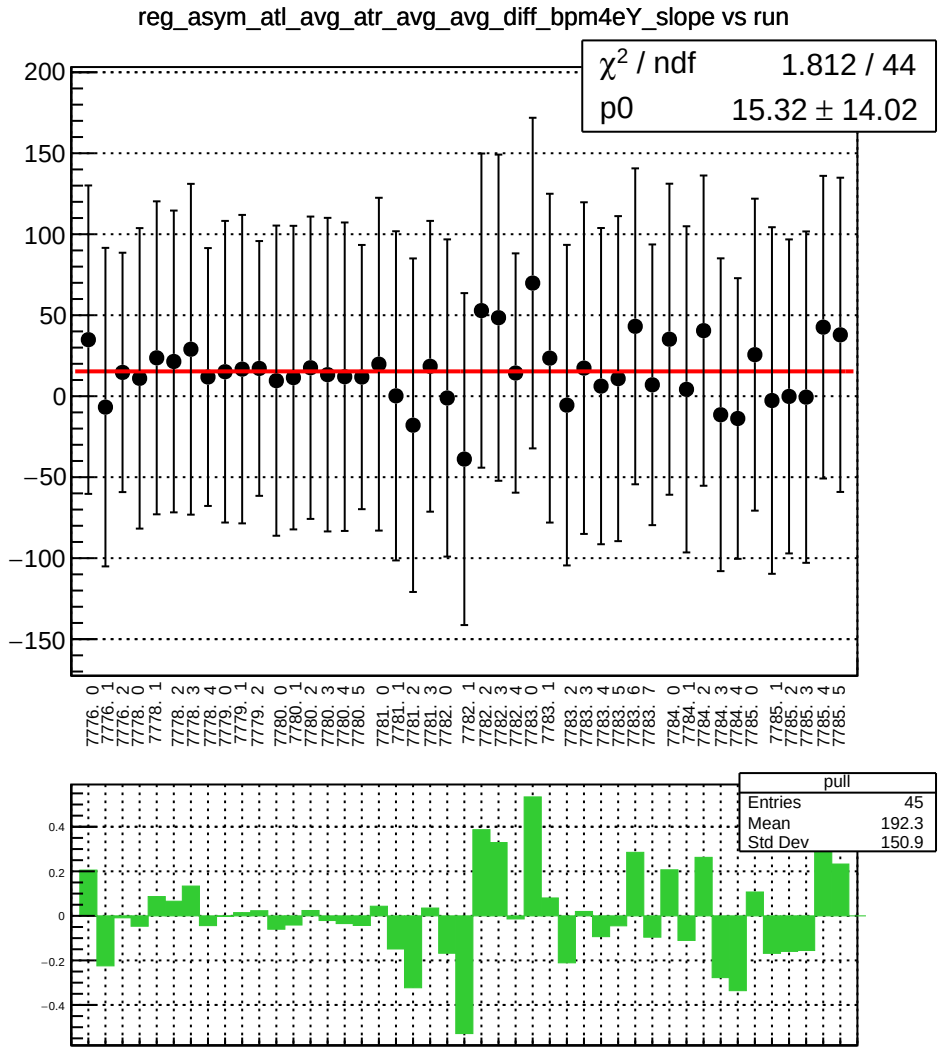

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 21.36 / 44
p0 3.217 ± 0.1556
pull
Entries 45
Mean 113.7
Std Dev 91.24

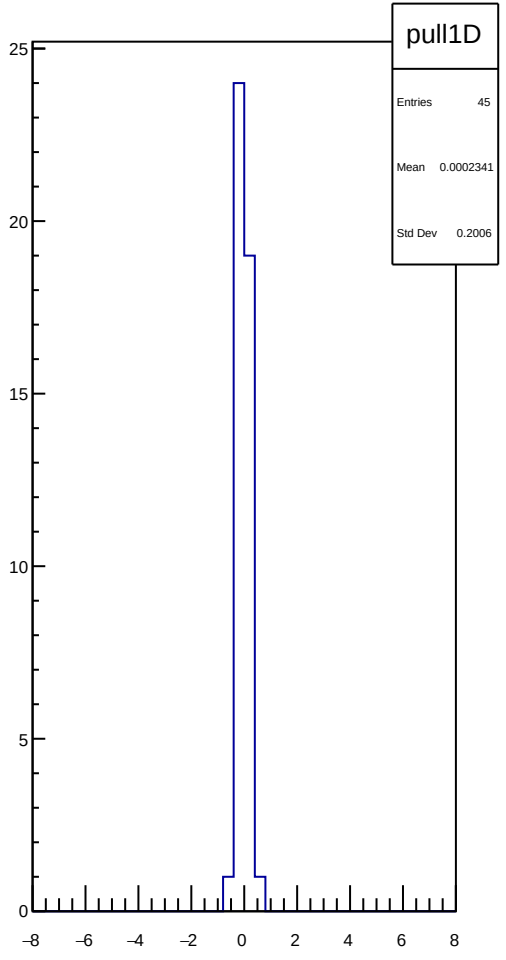

pull1D
Entries 45
Mean −0.01129
Std Dev 0.6889

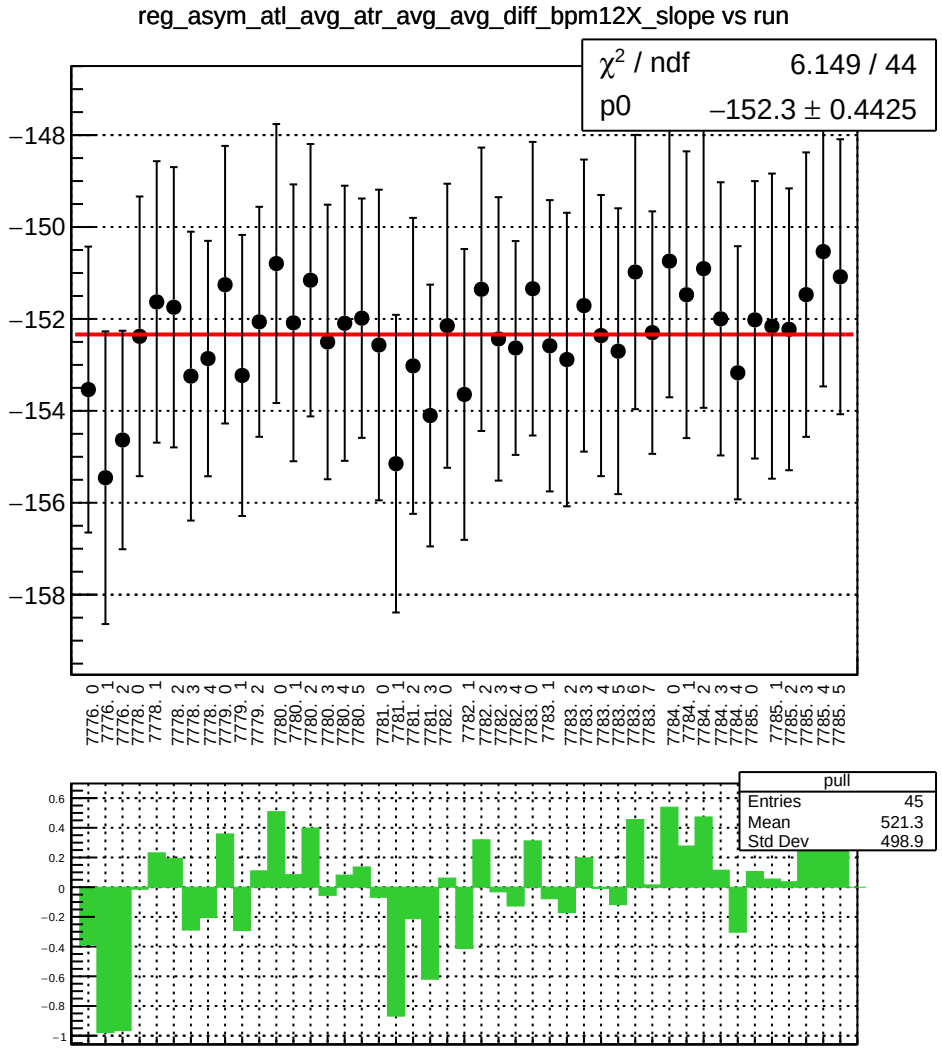

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 2.752 / 44
p0 −133.2 ± 12.17
0
−50
−100
−150
−200
−250
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −52.87
Std Dev 79.22
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean 0.006232
Std Dev 0.2472
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

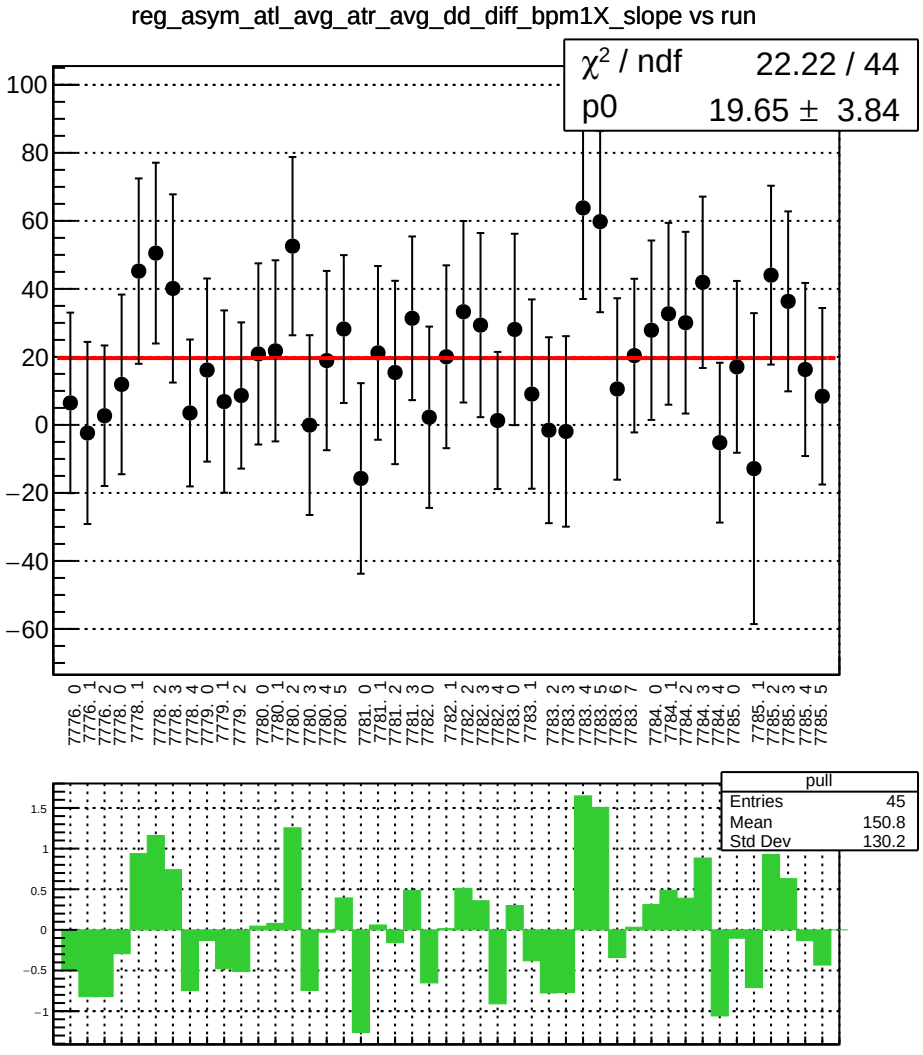

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.016 / 44
p0 45.74 ± 12.42
200
150
100
50
0
−50
−100
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 172
Std Dev 146.4
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 45
Mean −0.0006754
Std Dev 0.2117
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

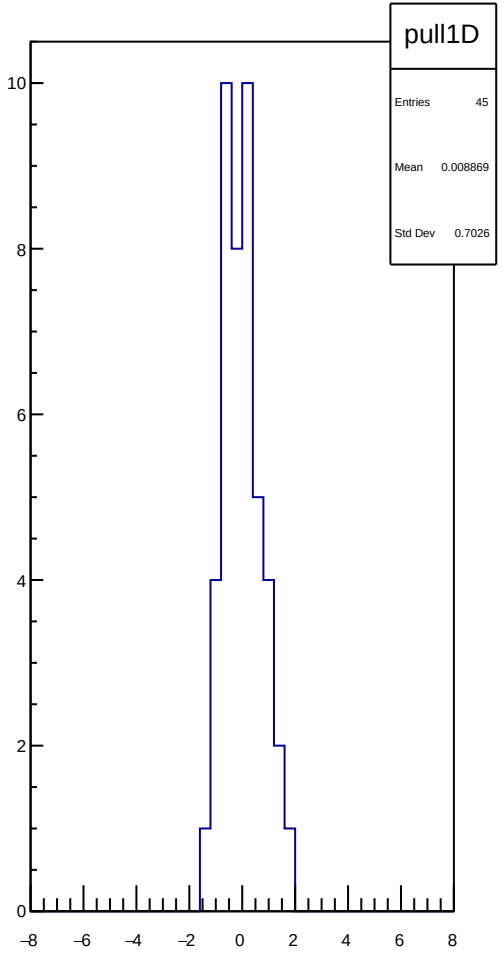

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.811 / 44
p0 127.2 ± 10.59
250
200
150
100
50
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −74.16
Std Dev 100.5
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 45
Mean −0.005851
Std Dev 0.2499
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

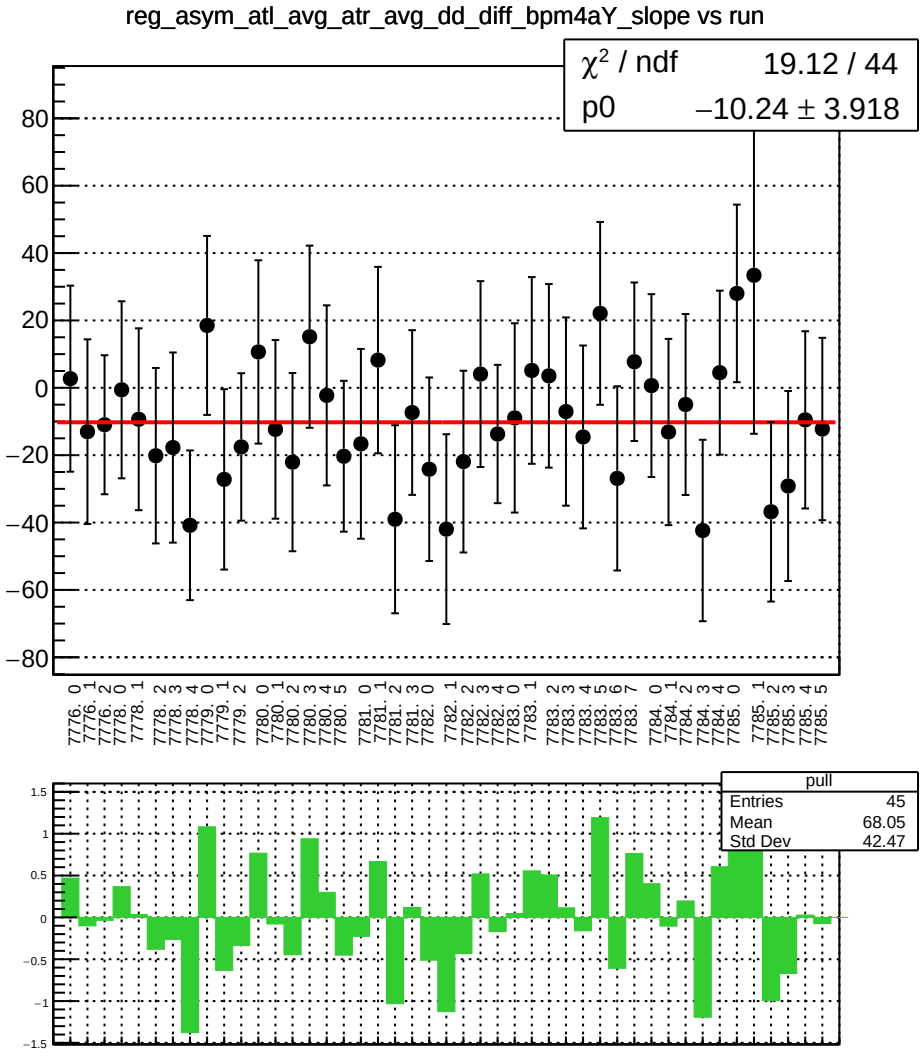

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.812 / 44
p0 15.32 ± 14.02
pull
Entries 45
Mean 192.3
Std Dev 150.9

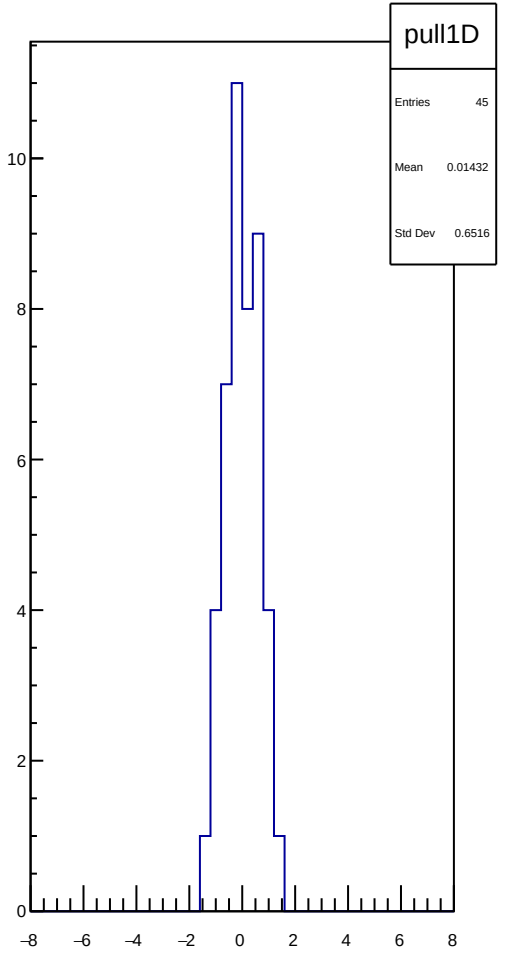

pull1D
Entries 45
Mean 0.0002341
Std Dev 0.2006

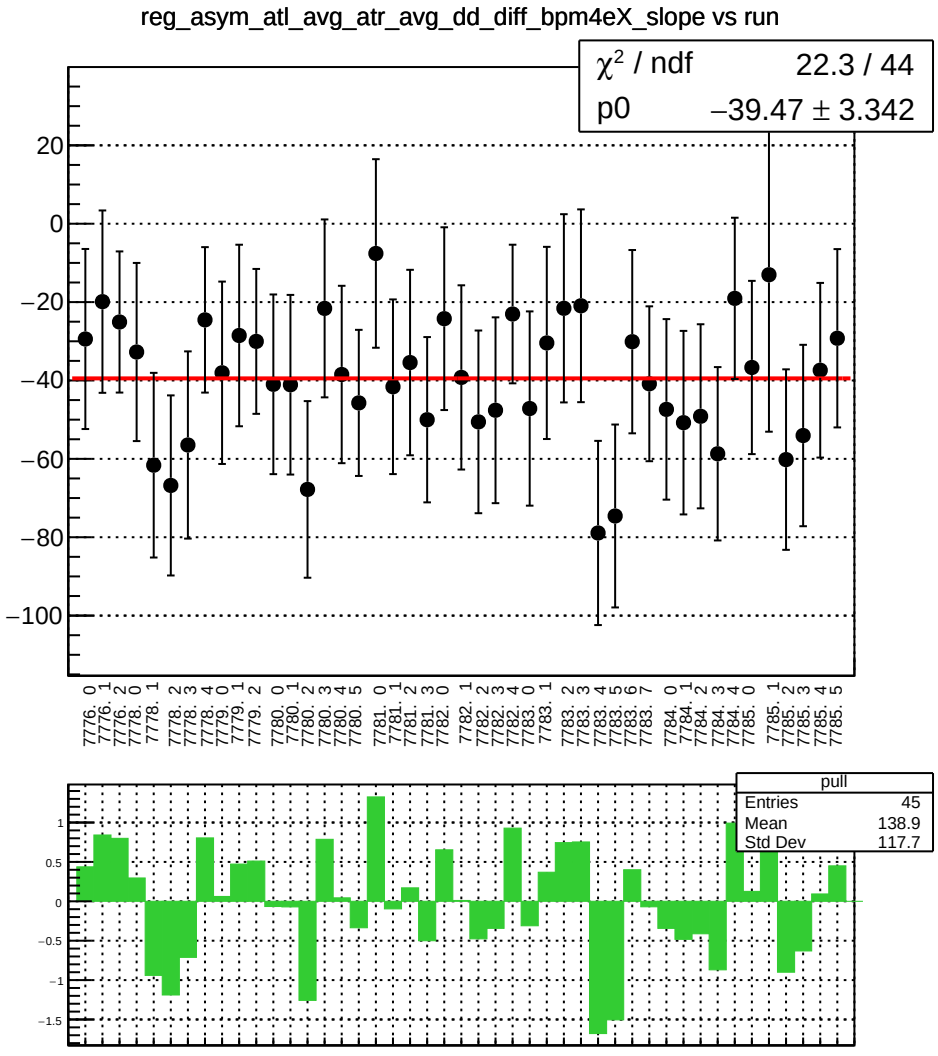

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 6.149 / 44
p0 −152.3 ± 0.4425
−148
−150
−152
−154
−156
−158
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean 521.3
Std Dev 498.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 45
Mean 0.004028
Std Dev 0.3696
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

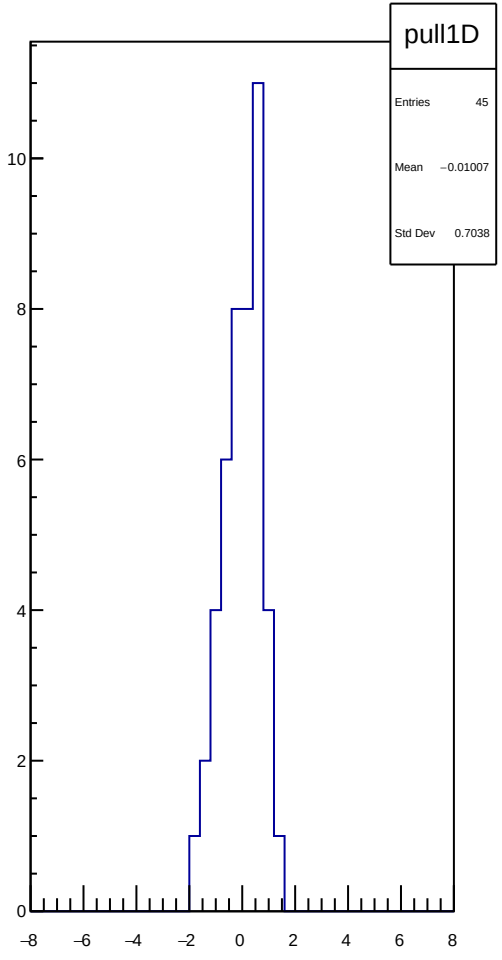

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 22.22 / 44
p0 19.65 ± 3.84
pull
Entries 45
Mean 150.8
Std Dev 130.2

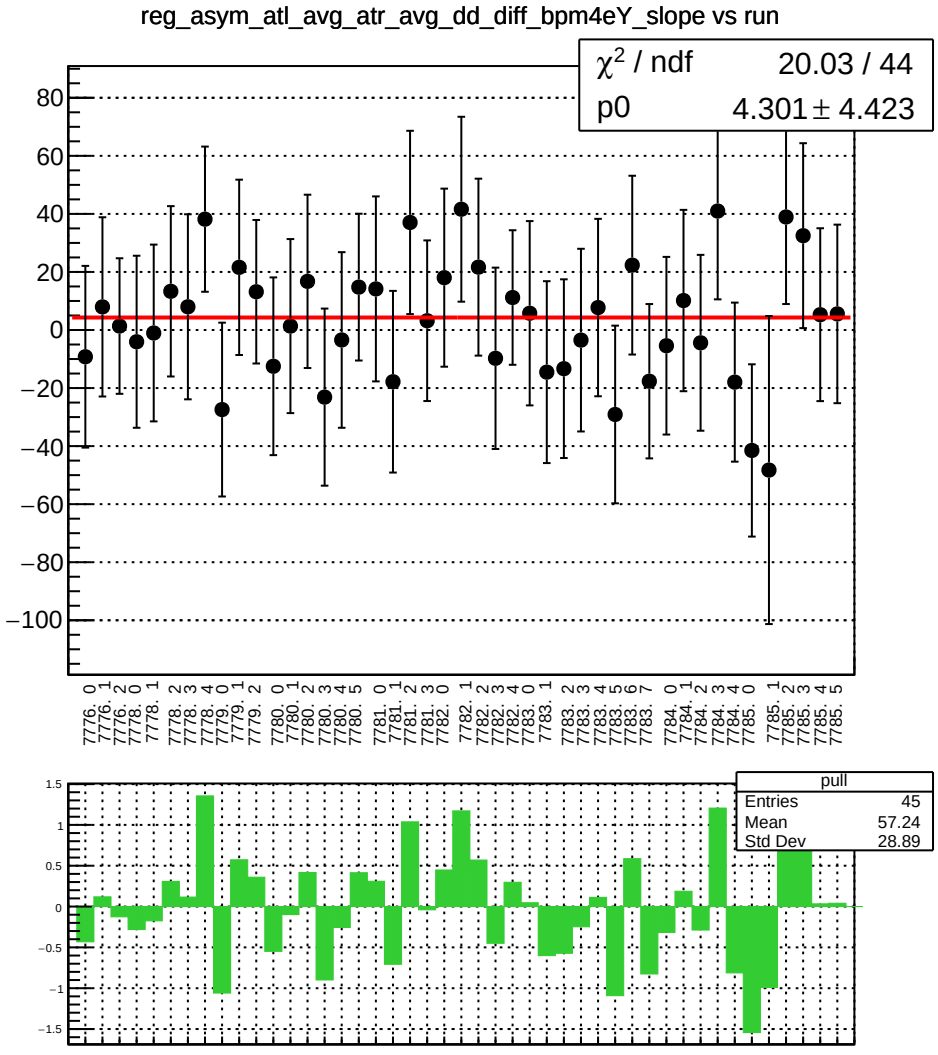

pull1D
Entries 45
Mean 0.008869
Std Dev 0.7026

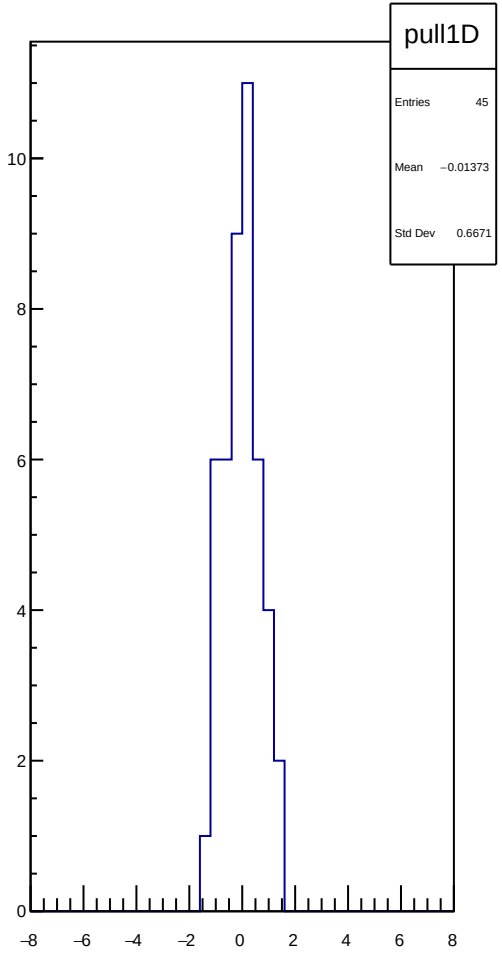

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.12 / 44
p0 −10.24 ± 3.918
pull
Entries 45
Mean 68.05
Std Dev 42.47

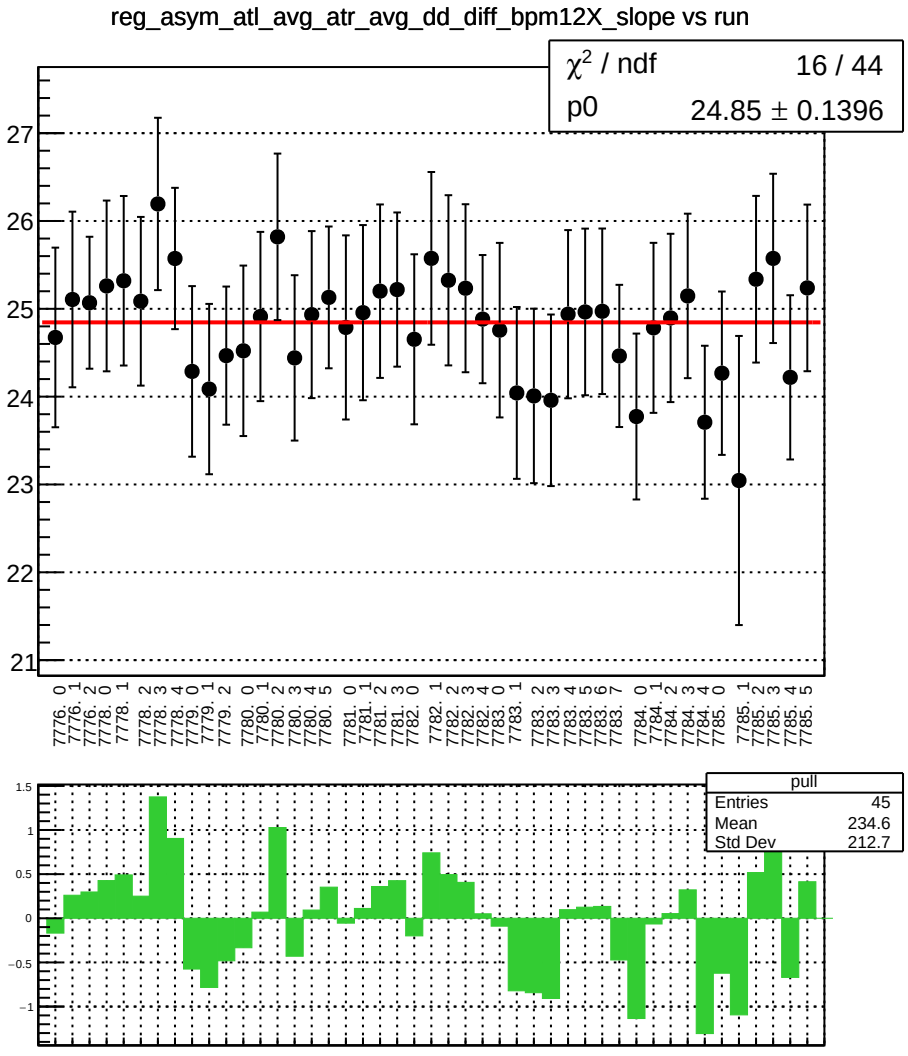

pull1D
Entries 45
Mean 0.01432
Std Dev 0.6516

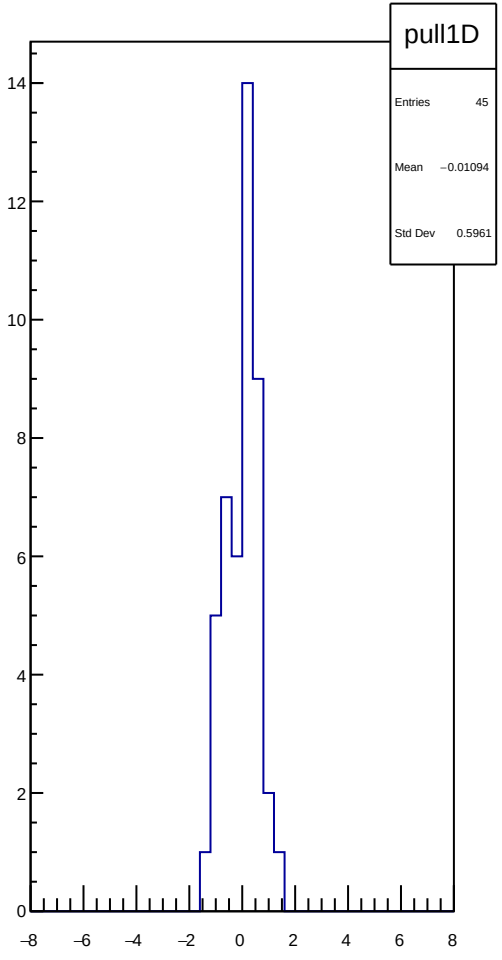

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.3 / 44
p0 −39.47 ± 3.342
pull
Entries 45
Mean 138.9
Std Dev 117.7

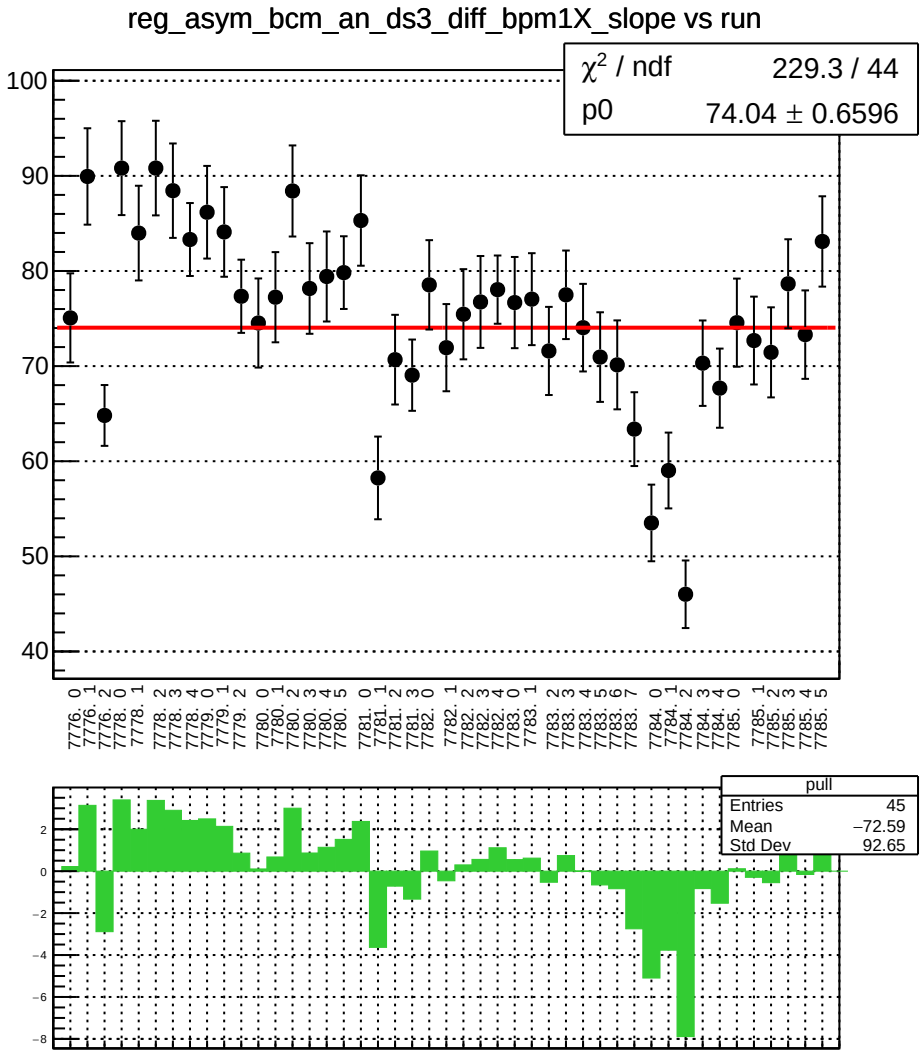

pull1D
Entries 45
Mean −0.01007
Std Dev 0.7038

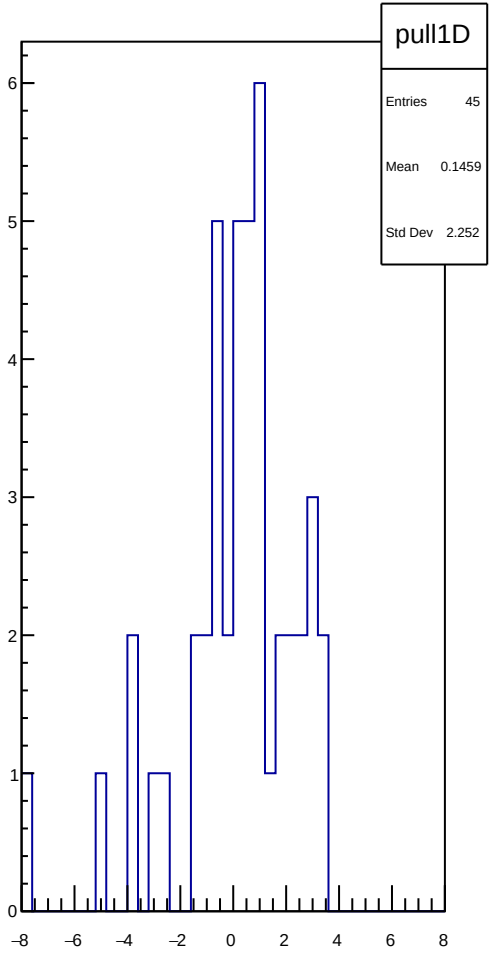

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.03 / 44
p0 4.301 ± 4.423
pull
Entries 45
Mean 57.24
Std Dev 28.89

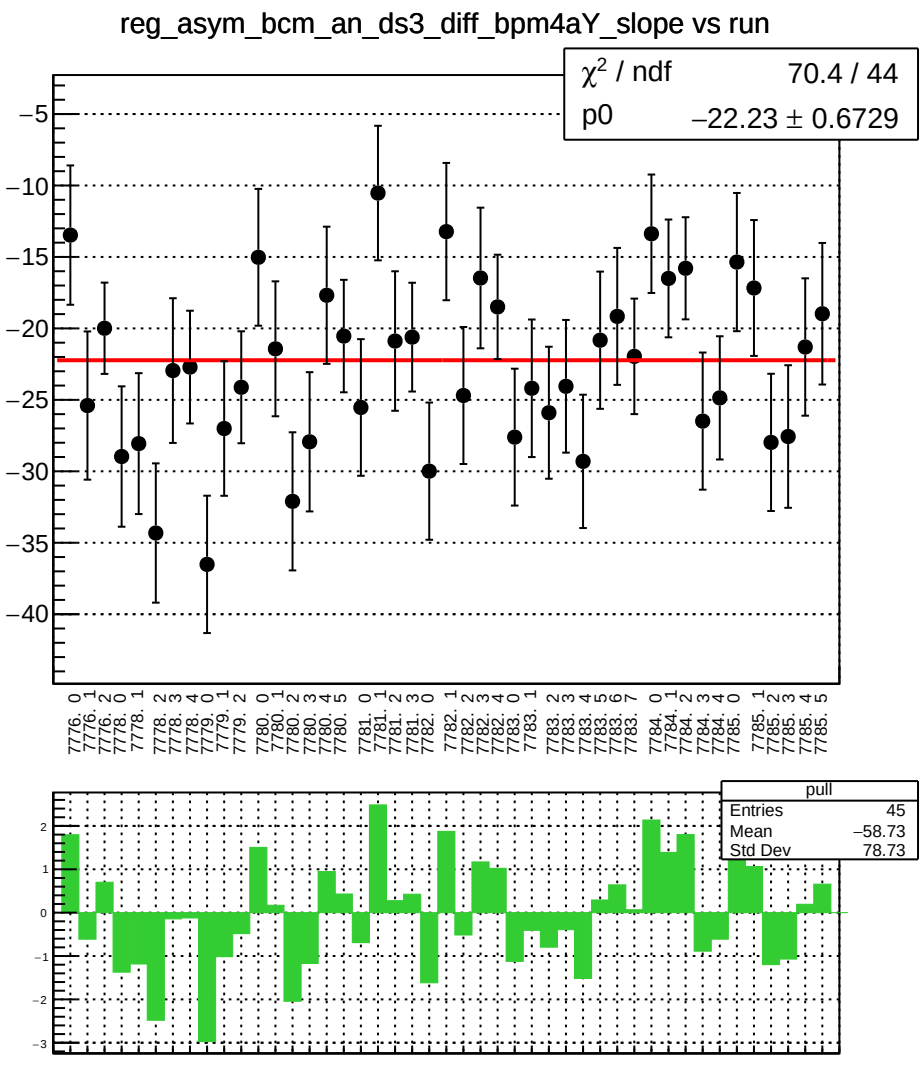

pull1D
Entries 45
Mean −0.01373
Std Dev 0.6671

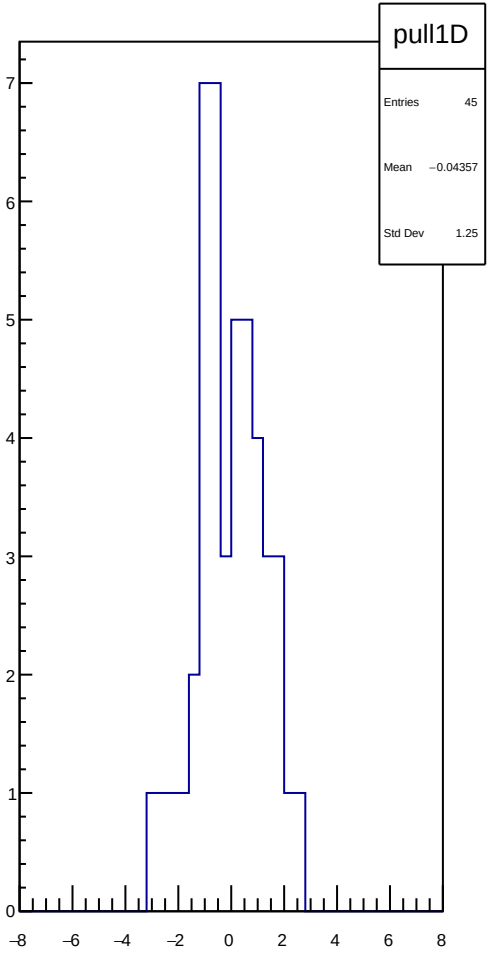

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 16 / 44
p0 24.85 ± 0.1396
pull
Entries 45
Mean 234.6
Std Dev 212.7

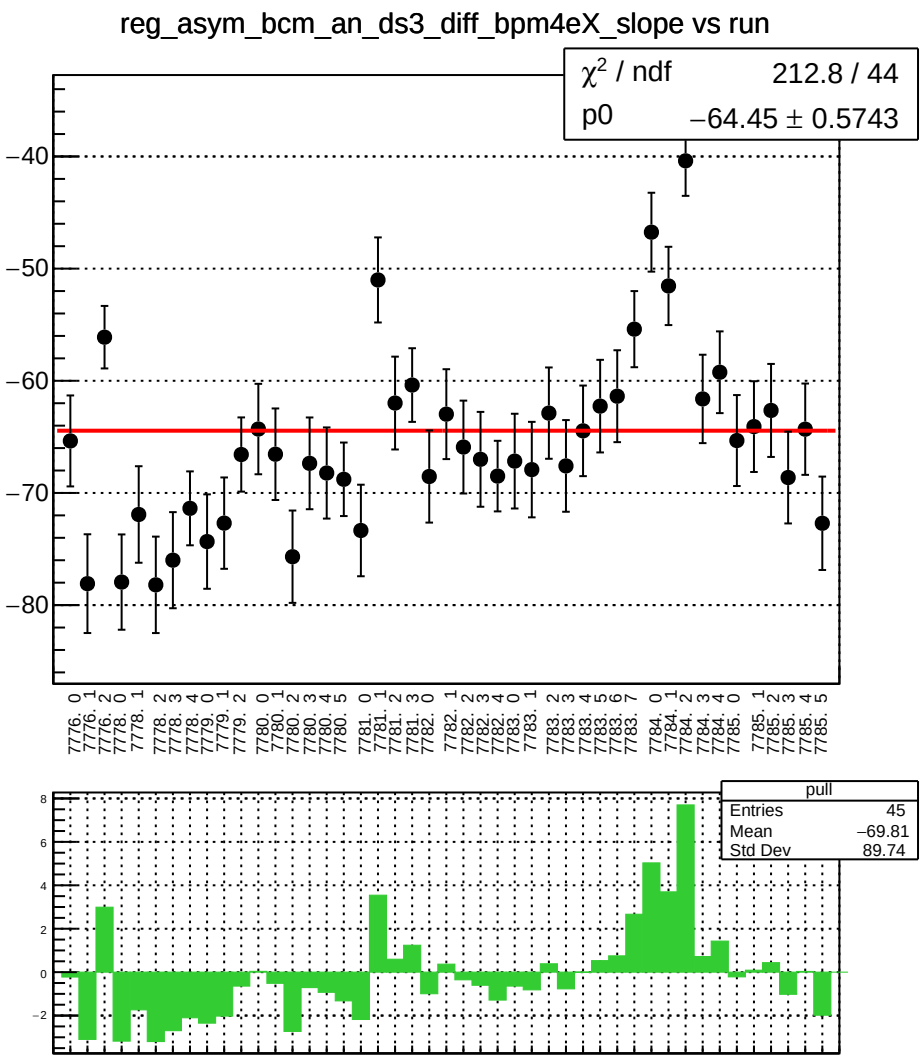

pull1D
Entries 45
Mean −0.01094
Std Dev 0.5961

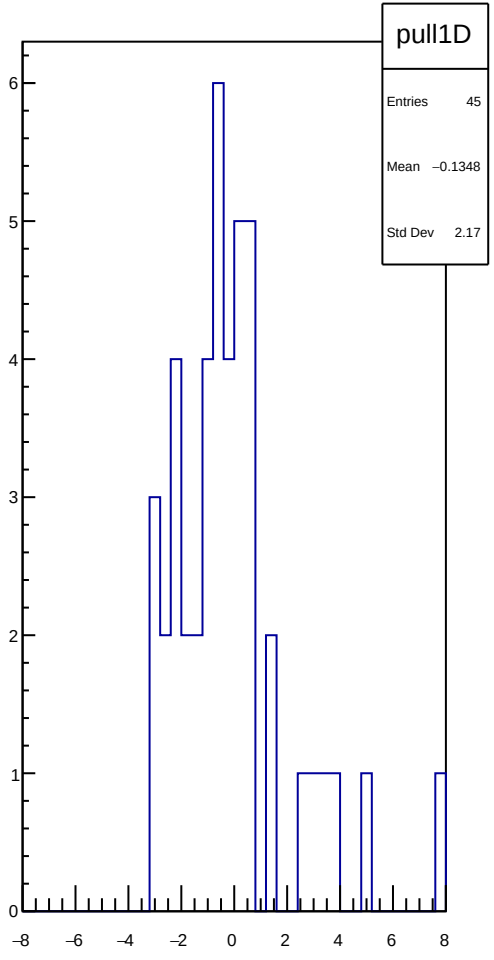

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 229.3 / 44
p0 74.04 ± 0.6596
pull
Entries 45
Mean −72.59
Std Dev 92.65

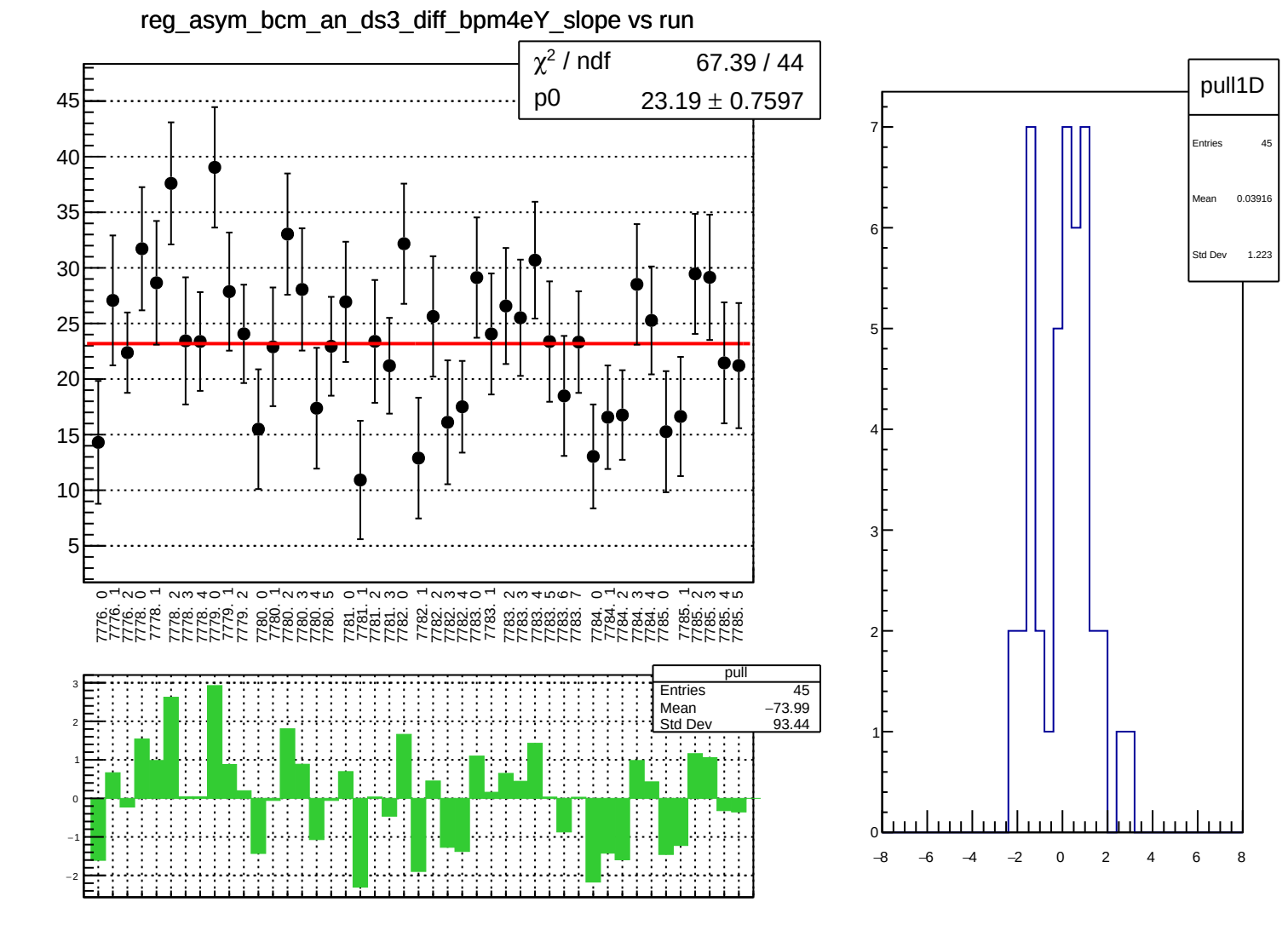

pull1D
Entries 45
Mean 0.1459
Std Dev 2.252

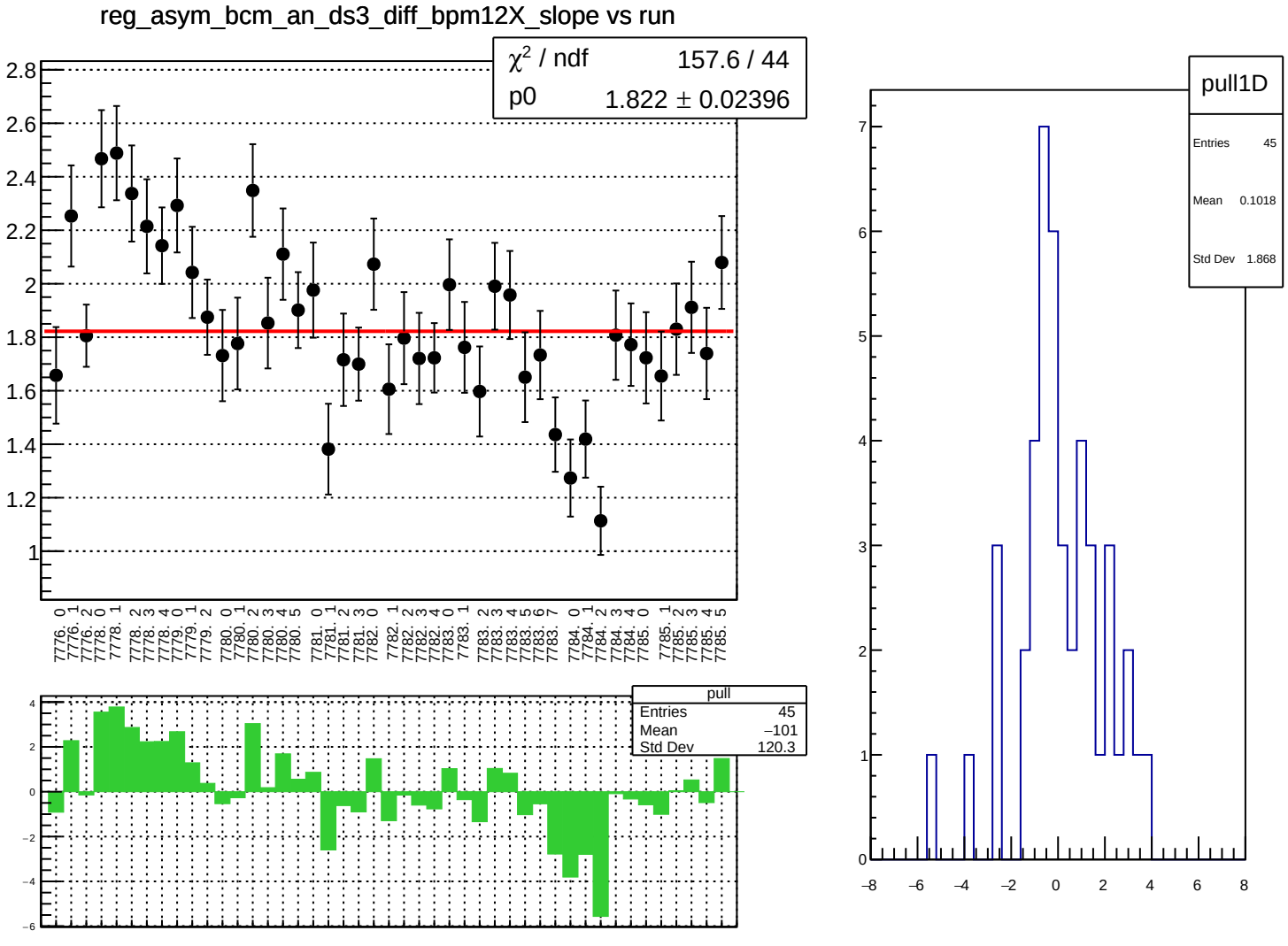

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 70.4 / 44
p0 −22.23 ± 0.6729
pull
Entries 45
Mean −58.73
Std Dev 78.73

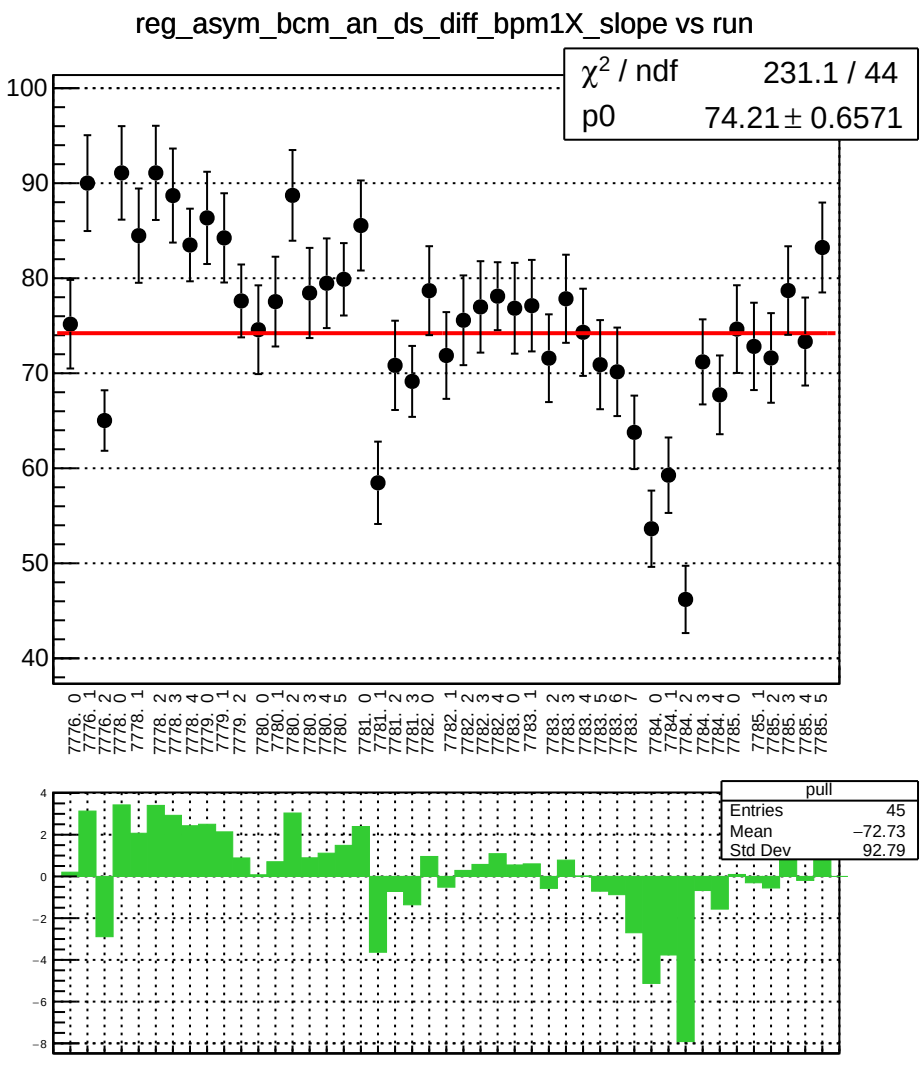

pull1D
Entries 45
Mean −0.04357
Std Dev 1.25

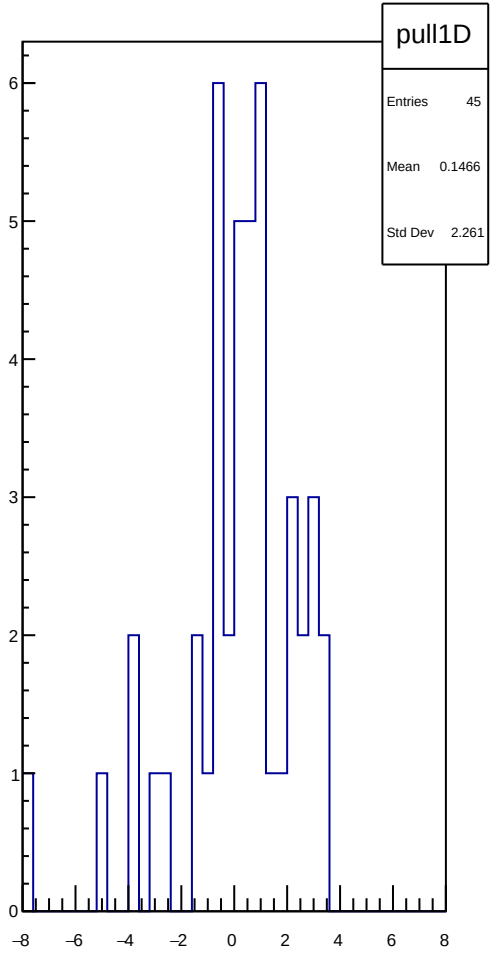

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 212.8 / 44
p0 −64.45 ± 0.5743
pull
Entries 45
Mean −69.81
Std Dev 89.74

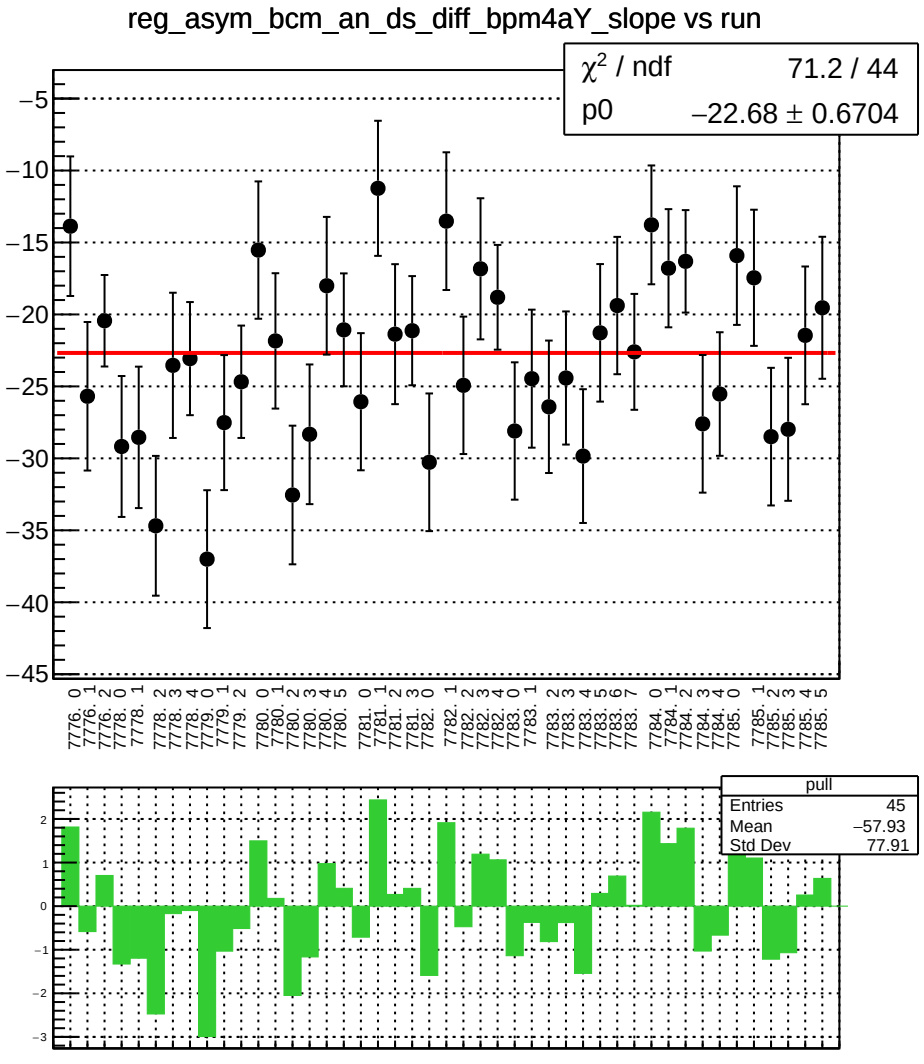

pull1D
Entries 45
Mean −0.1348
Std Dev 2.17

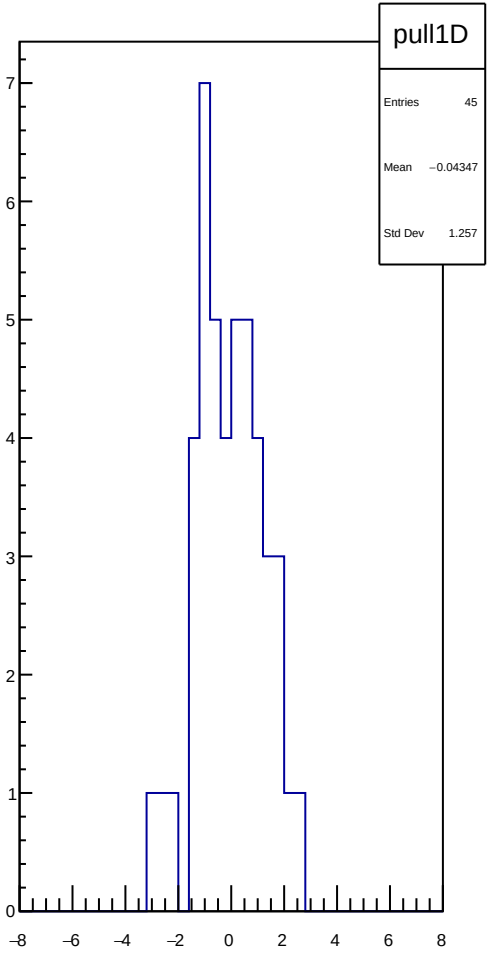

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 67.39 / 44
p0 23.19 ± 0.7597
pull
Entries 45
Mean −73.99
Std Dev 93.44
pull1D
Entries 45
Mean 0.03916
Std Dev 1.223

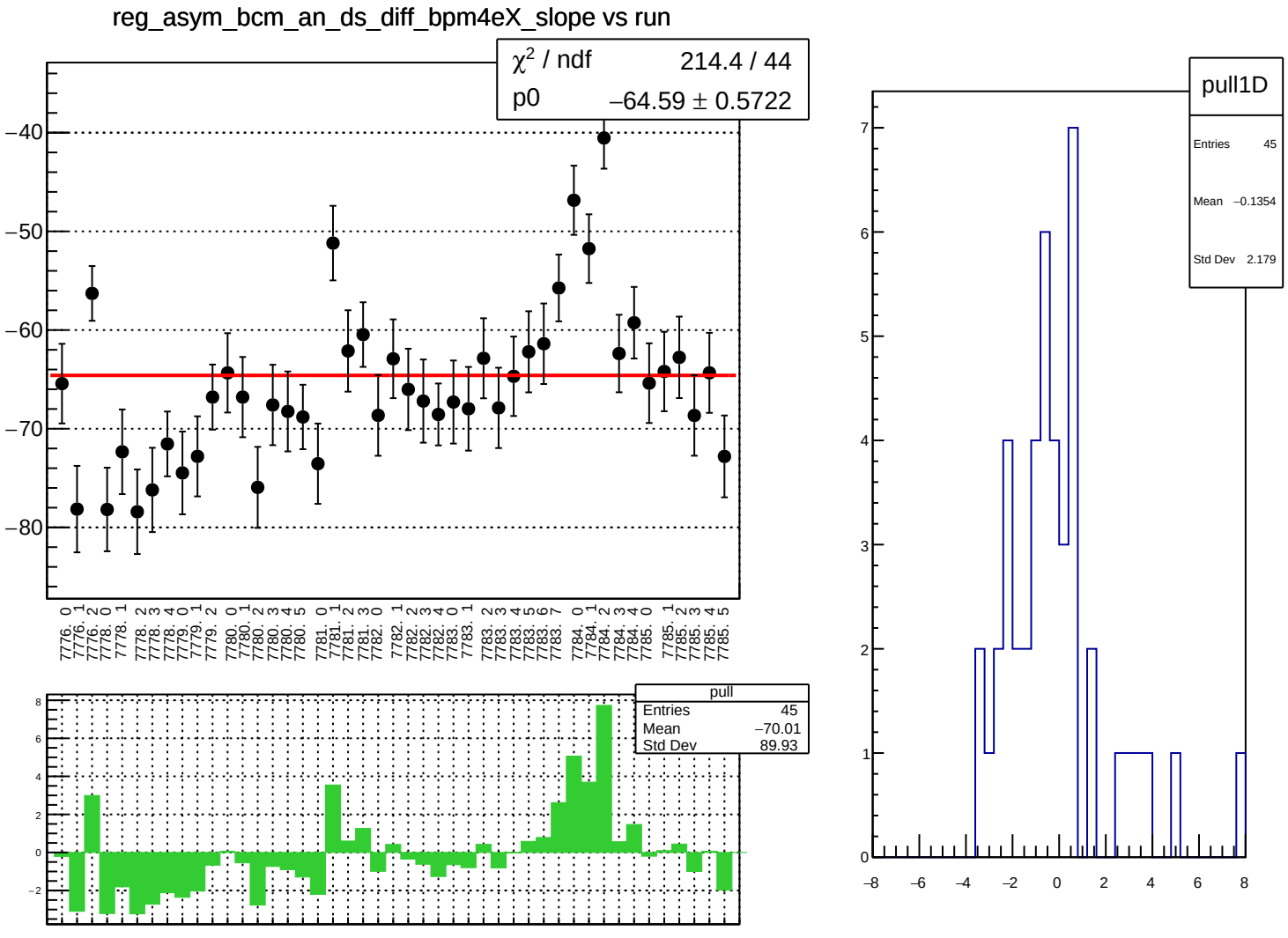

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 157.6 / 44
p0 1.822 ± 0.02396
pull
Entries 45
Mean −101
Std Dev 120.3
pull1D
Entries 45
Mean 0.1018
Std Dev 1.868

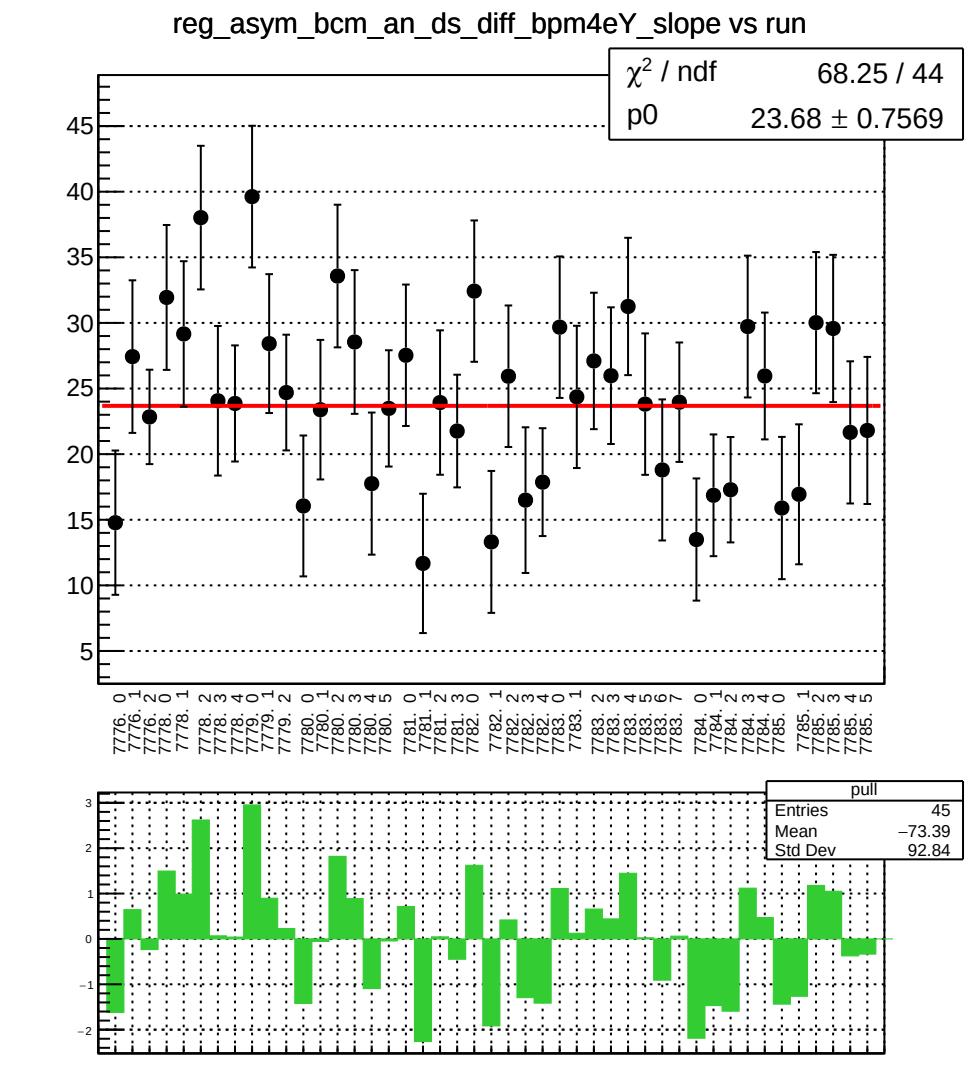

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 231.1 / 44
p0 74.21 ± 0.6571
pull
Entries 45
Mean −72.73
Std Dev 92.79

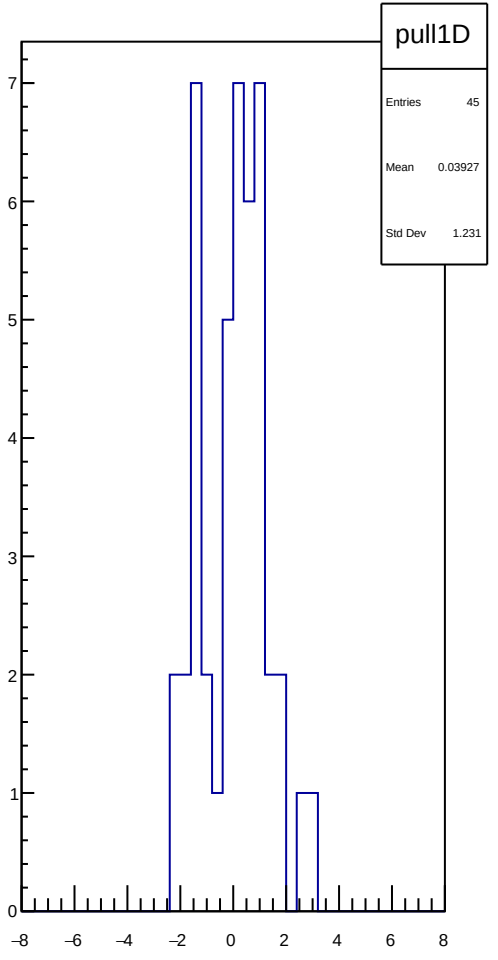

pull1D
Entries 45
Mean 0.1466
Std Dev 2.261

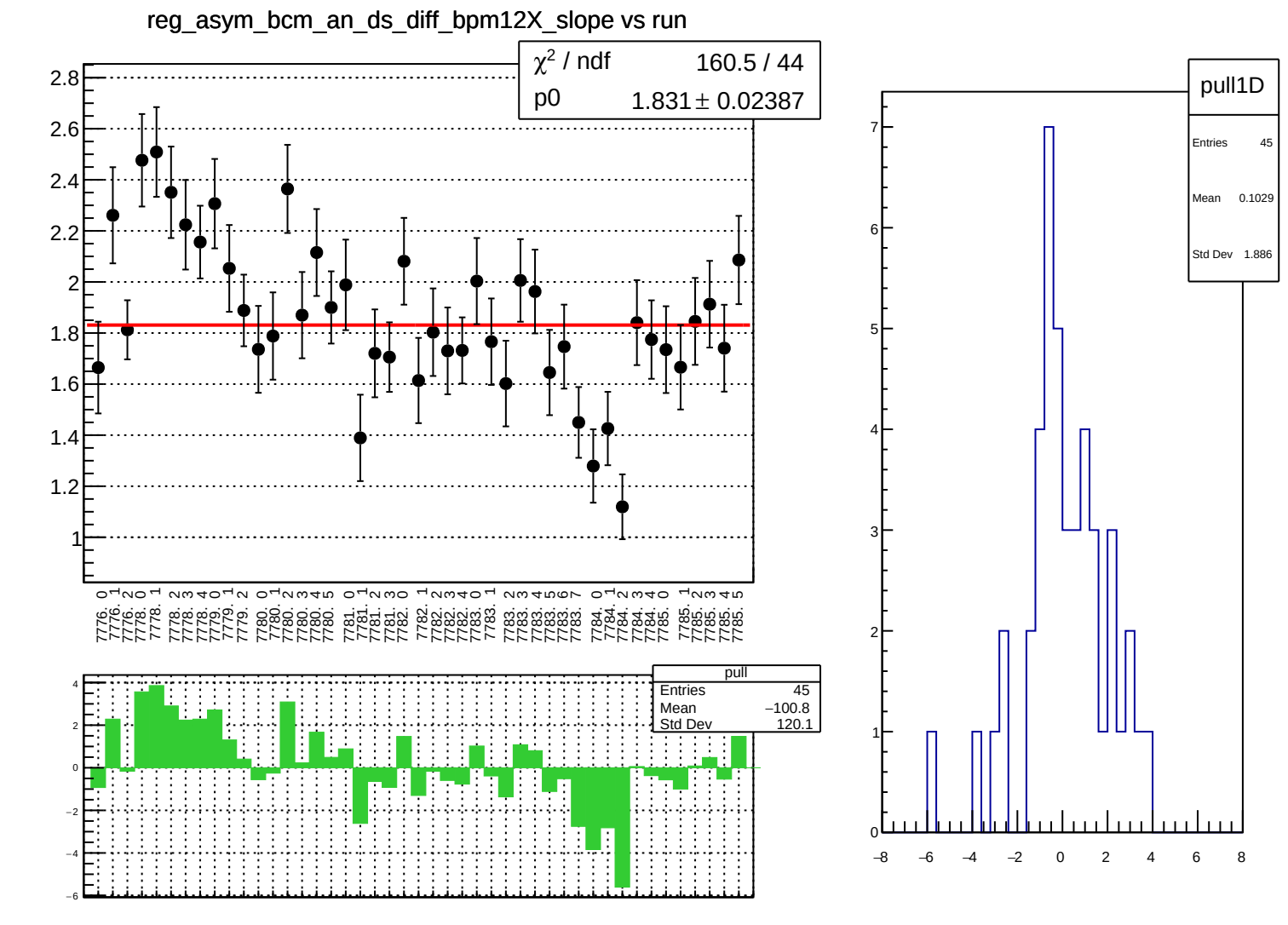

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 71.2 / 44
p0 −22.68 ± 0.6704
pull
Entries 45
Mean −57.93
Std Dev 77.91

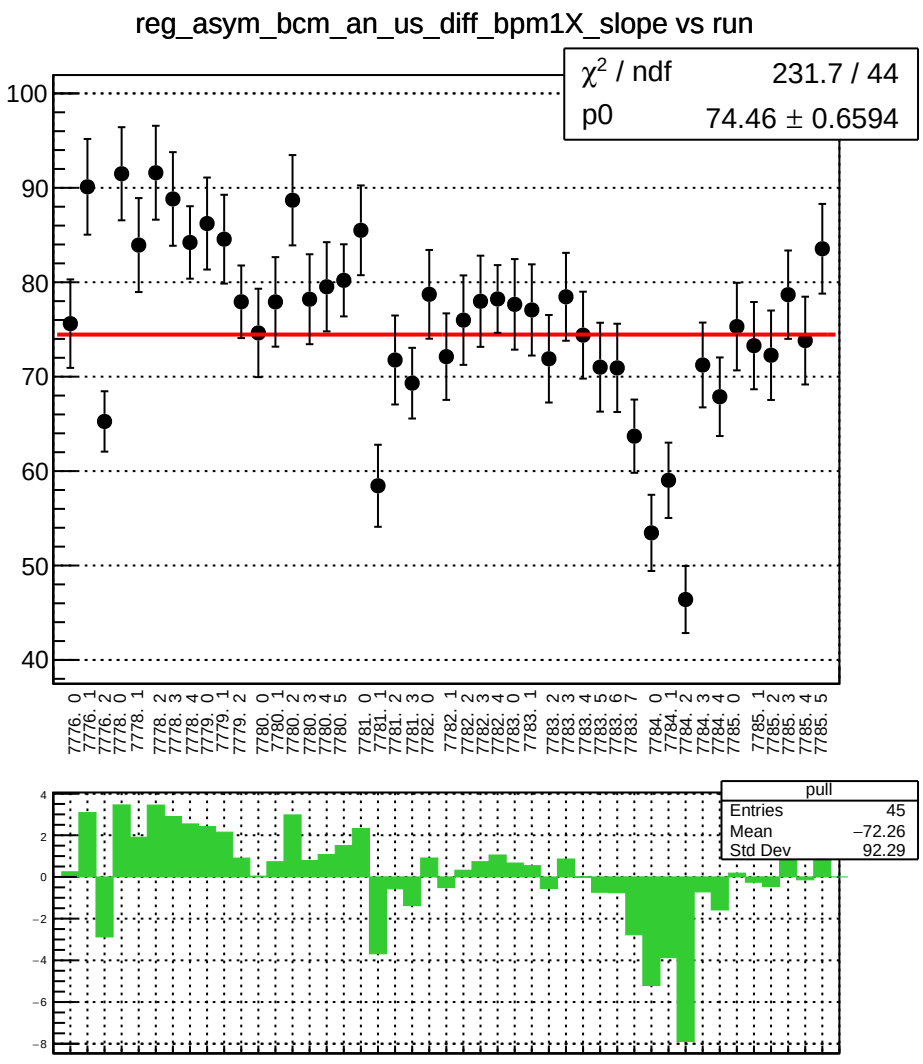

pull1D
Entries 45
Mean −0.04347
Std Dev 1.257

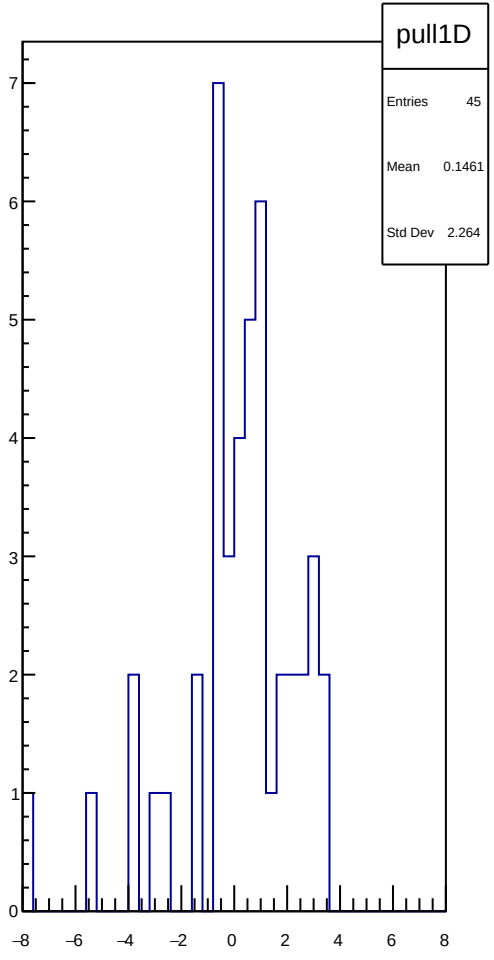

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 214.4 / 44
p0 −64.59 ± 0.5722
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −70.01
Std Dev 89.93
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.1354
Std Dev 2.179
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

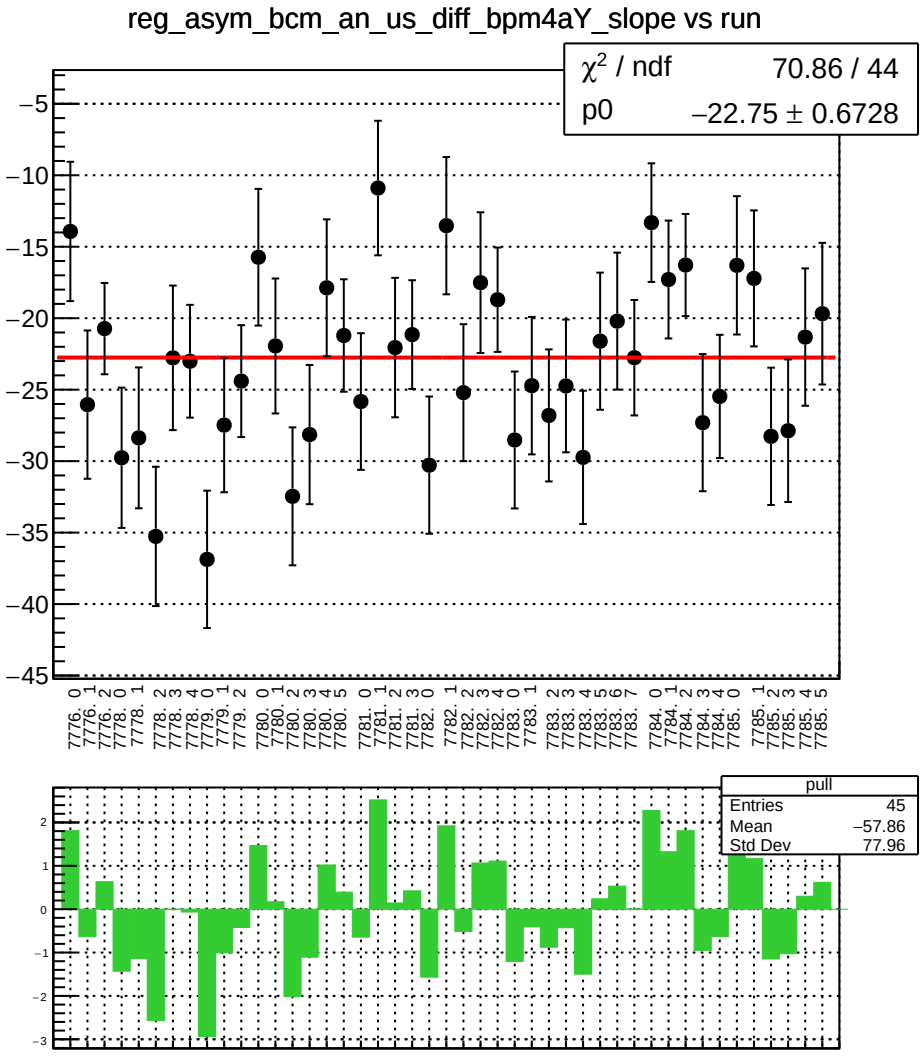

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 68.25 / 44
p0 23.68 ± 0.7569
pull
Entries 45
Mean −73.39
Std Dev 92.84

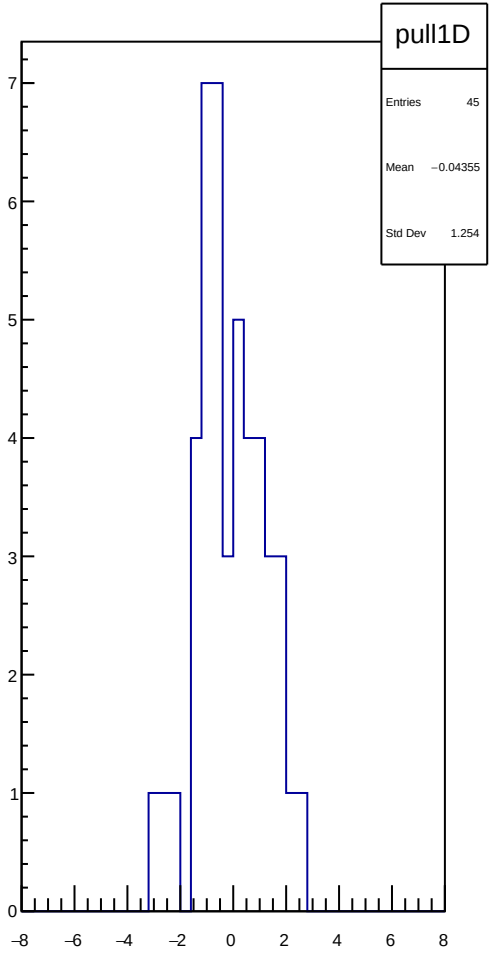

pull1D
Entries 45
Mean 0.03927
Std Dev 1.231

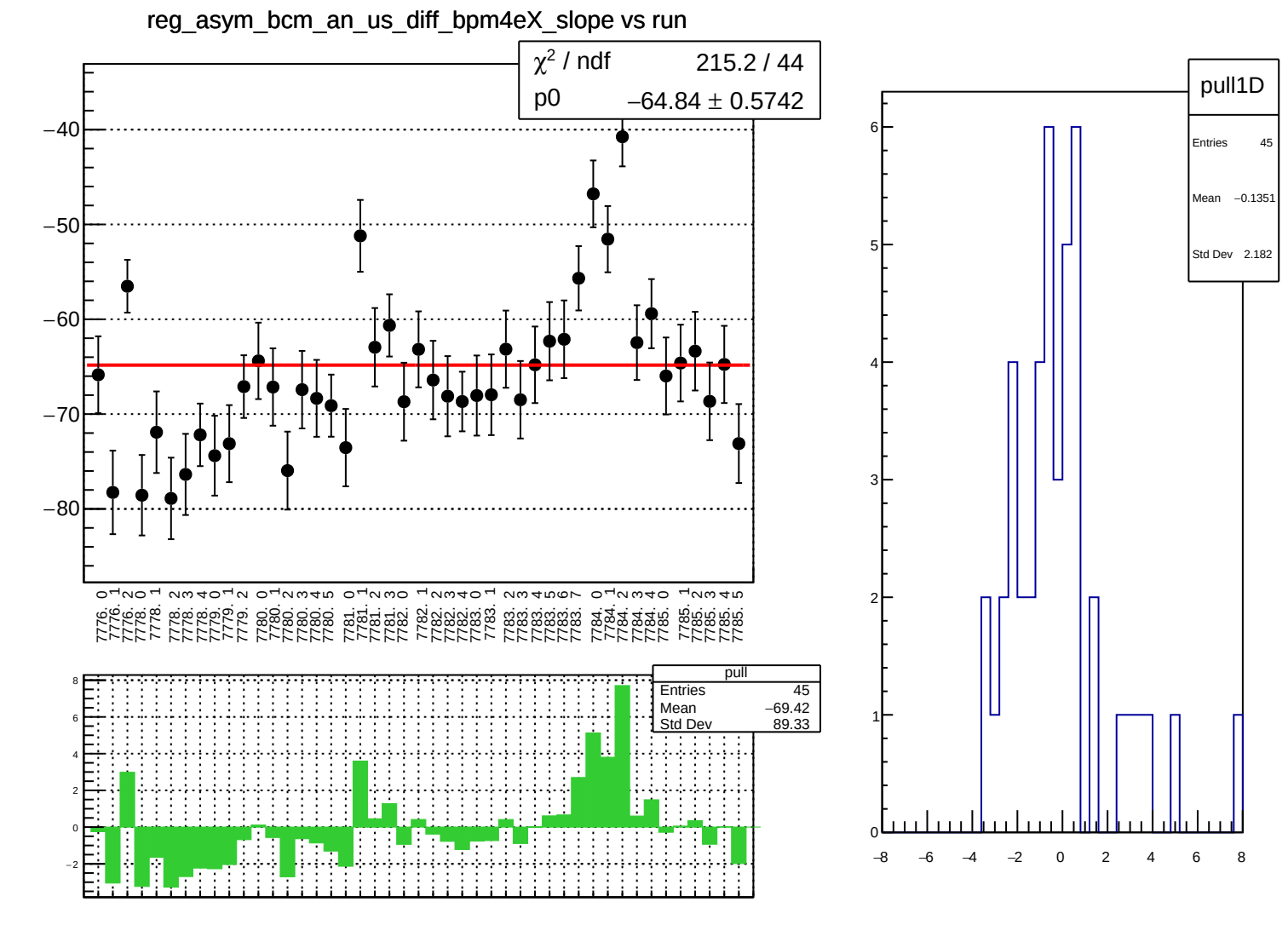

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 160.5 / 44
p0 1.831 ± 0.02387
pull
Entries 45
Mean −100.8
Std Dev 120.1
pull1D
Entries 45
Mean 0.1029
Std Dev 1.886

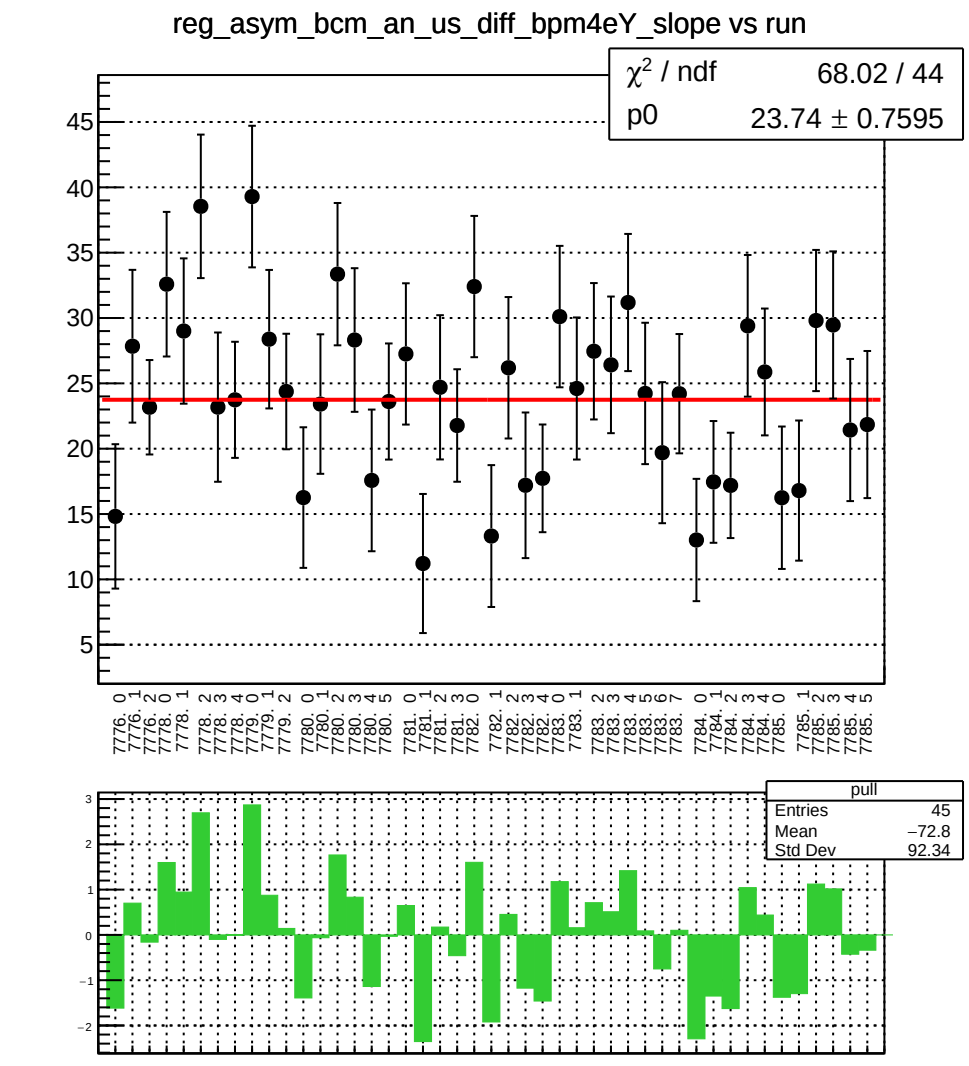

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 231.7 / 44
p0 74.46 ± 0.6594
pull
Entries 45
Mean −72.26
Std Dev 92.29

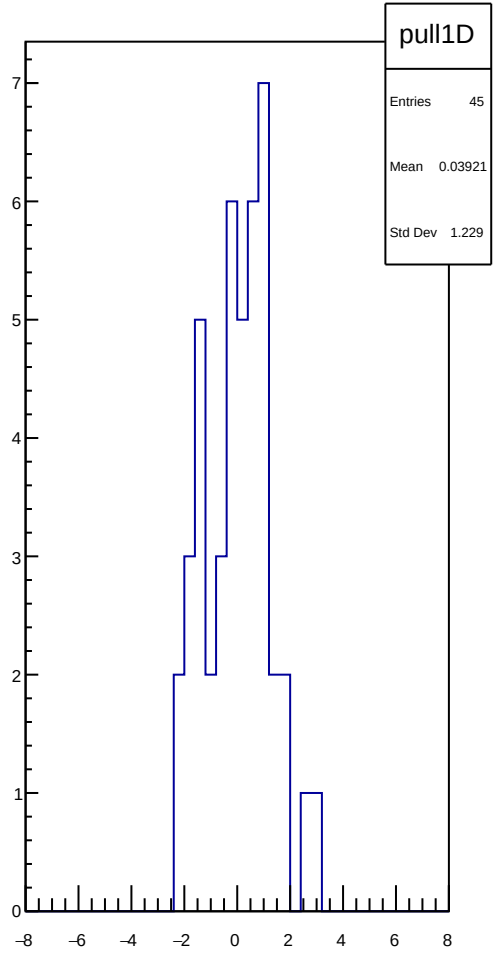

pull1D
Entries 45
Mean 0.1461
Std Dev 2.264

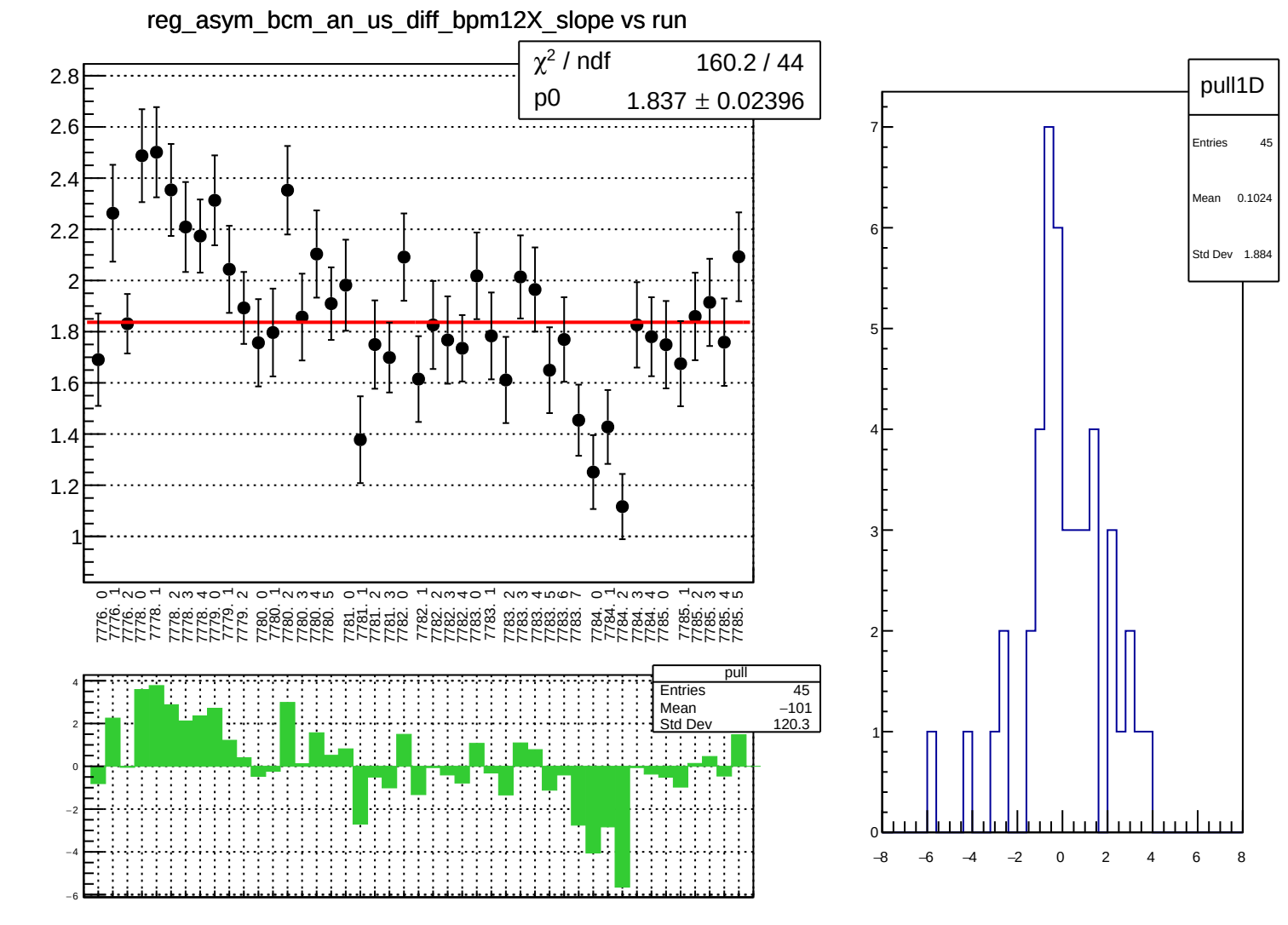

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 70.86 / 44
p0 −22.75 ± 0.6728
pull
Entries 45
Mean −57.86
Std Dev 77.96

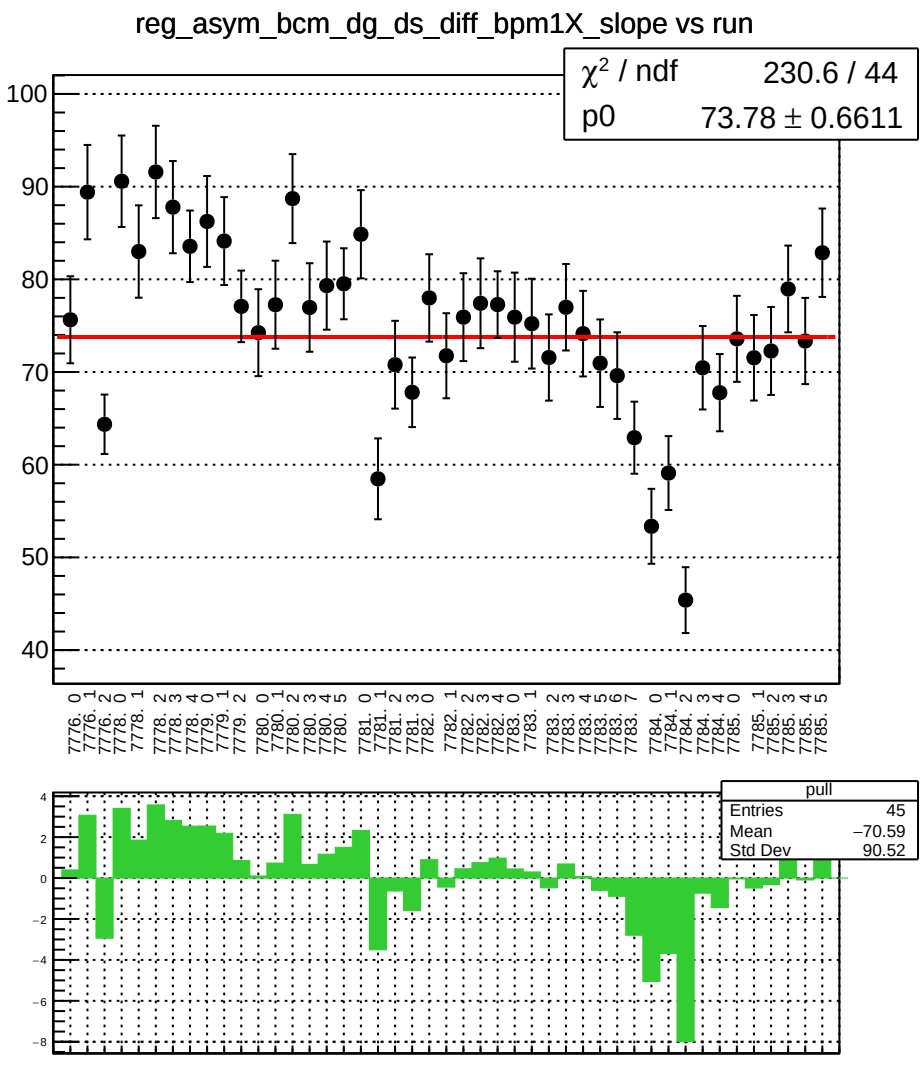

pull1D
Entries 45
Mean −0.04355
Std Dev 1.254

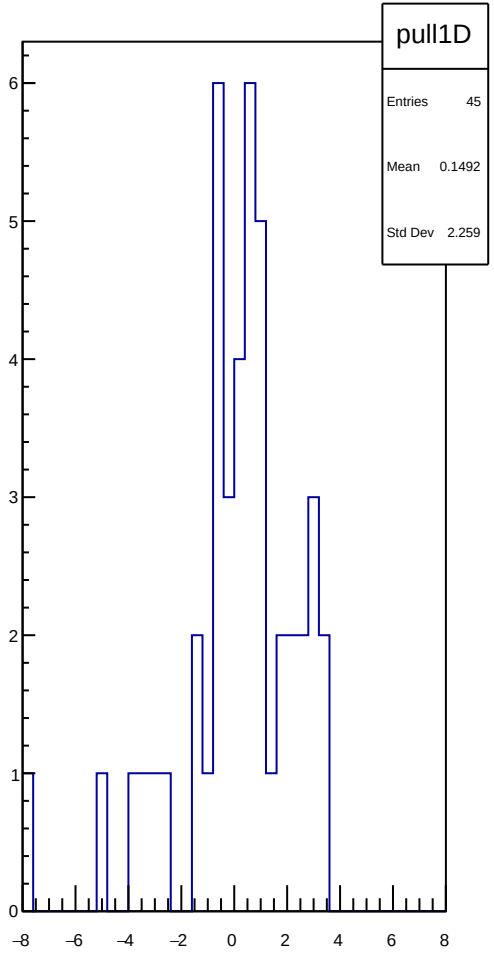

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 215.2 / 44
p0 −64.84 ± 0.5742
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −69.42
Std Dev 89.33
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.1351
Std Dev 2.182
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

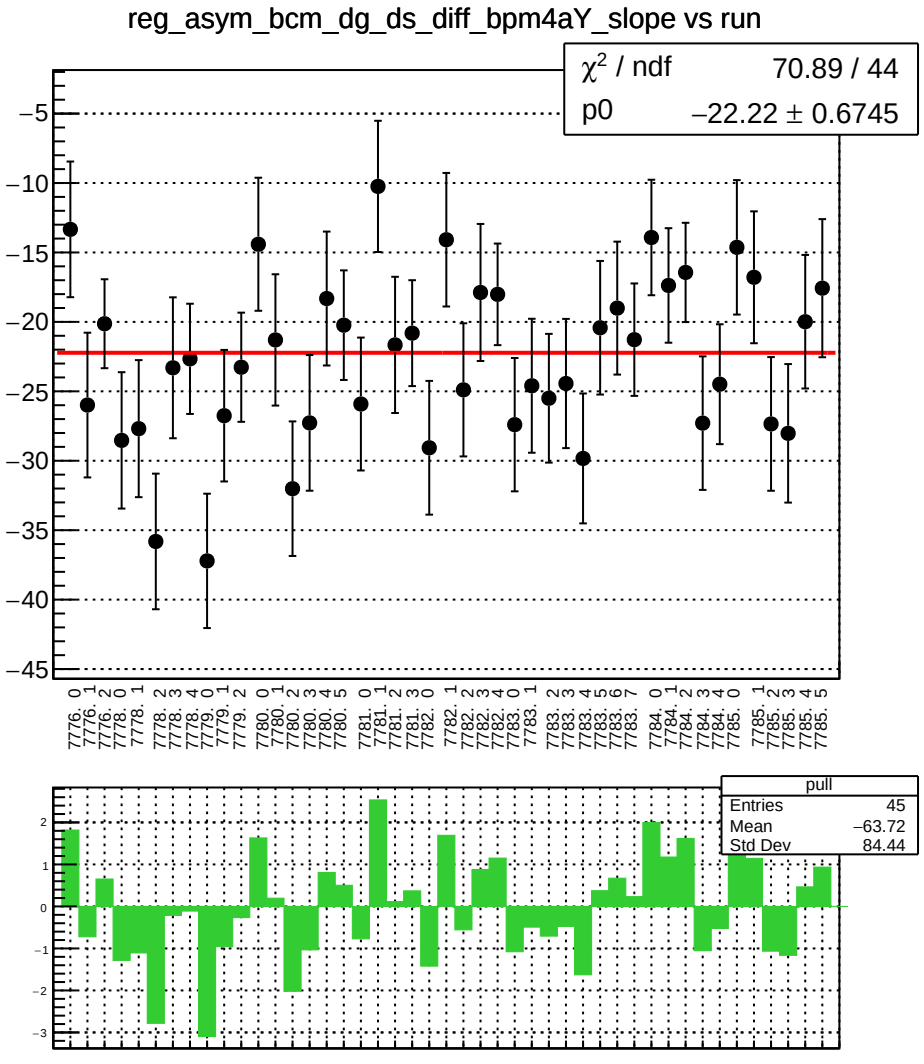

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 68.02 / 44
p0 23.74 ± 0.7595
45
40
35
30
25
20
15
10
5
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −72.8
Std Dev 92.34
3
2
1
0
−1
−2

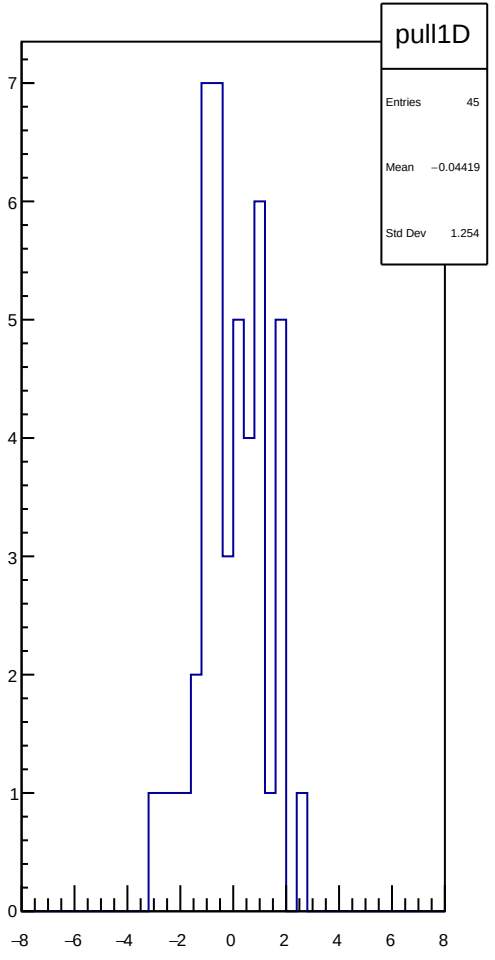

pull1D
Entries 45
Mean 0.03921
Std Dev 1.229
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

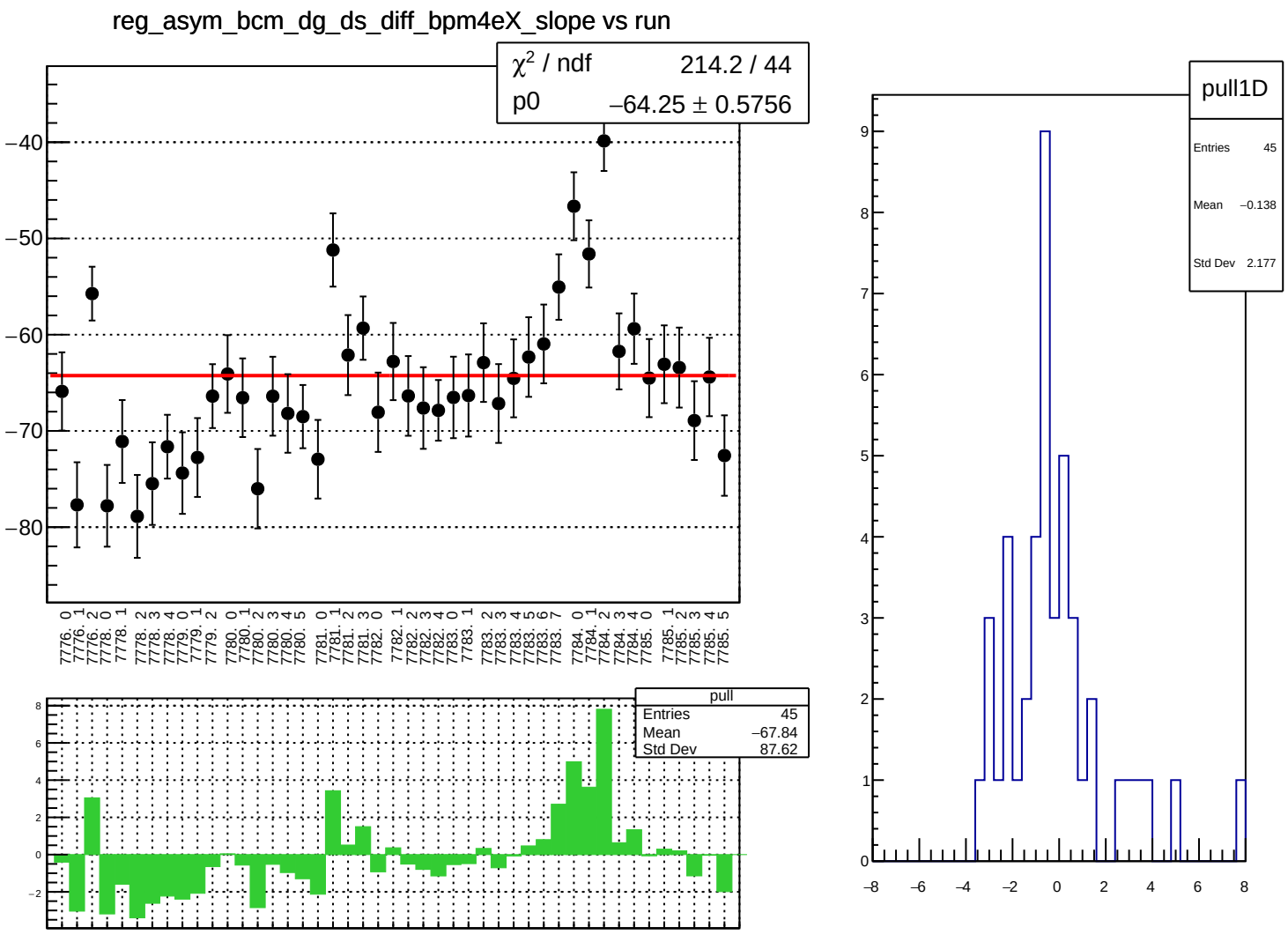

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 160.2 / 44
p0 1.837 ± 0.02396
pull
Entries 45
Mean −101
Std Dev 120.3
pull1D
Entries 45
Mean 0.1024
Std Dev 1.884

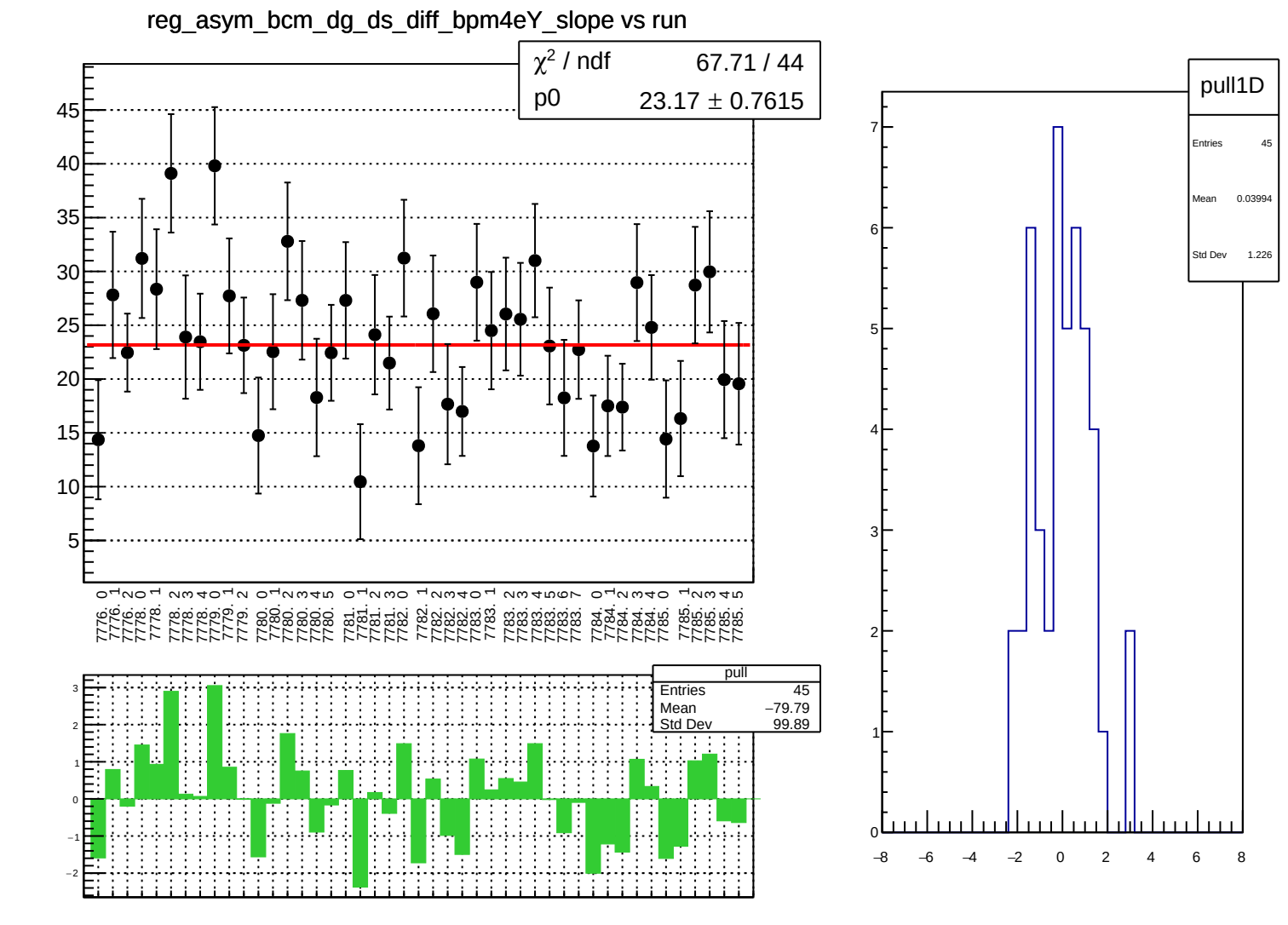

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 230.6 / 44
p0 73.78 ± 0.6611
100
90
80
70
60
50
40
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −70.59
Std Dev 90.52
4
2
0
−2
−4
−6
−8

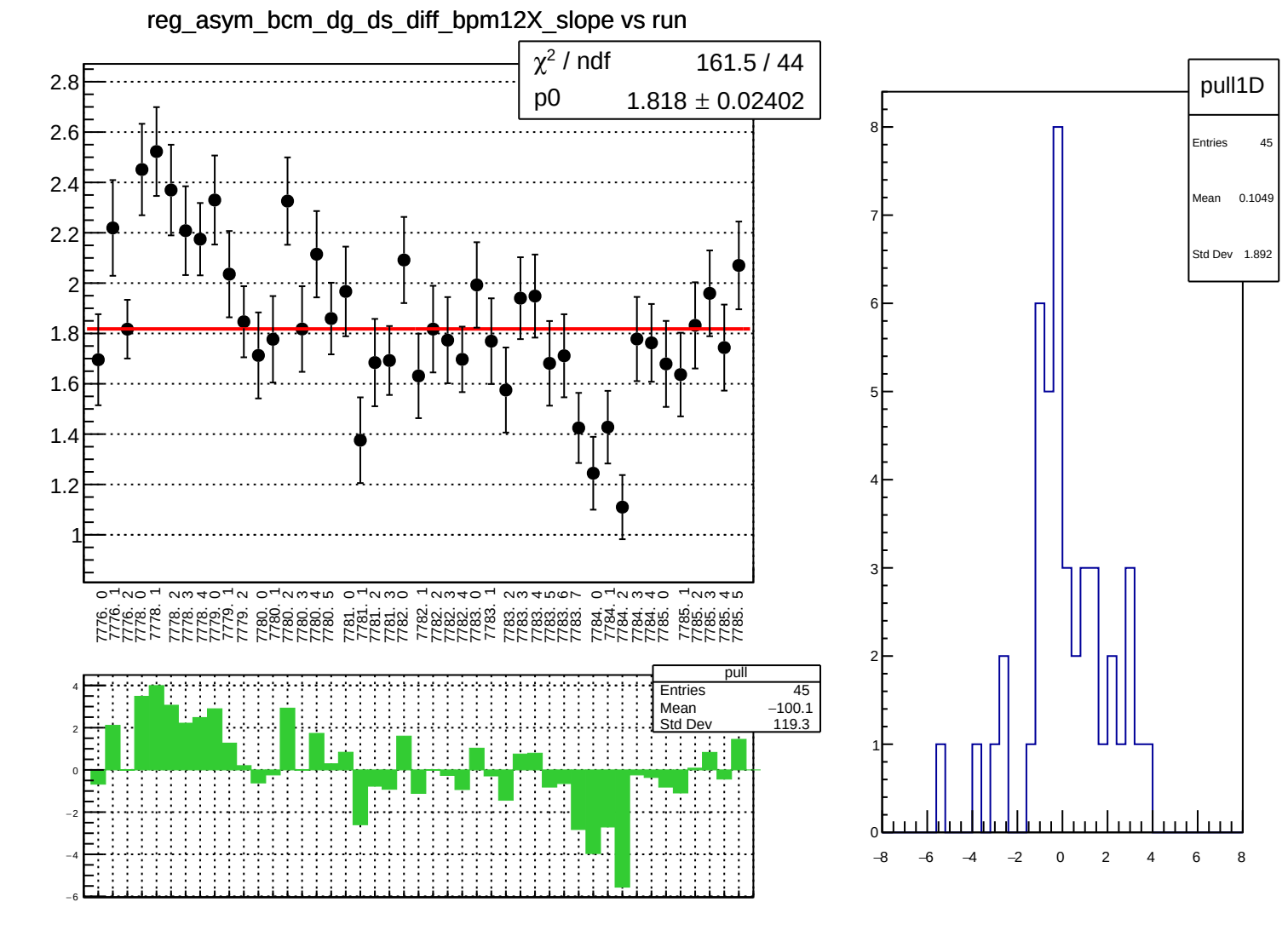

pull1D
Entries 45
Mean 0.1492
Std Dev 2.259
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

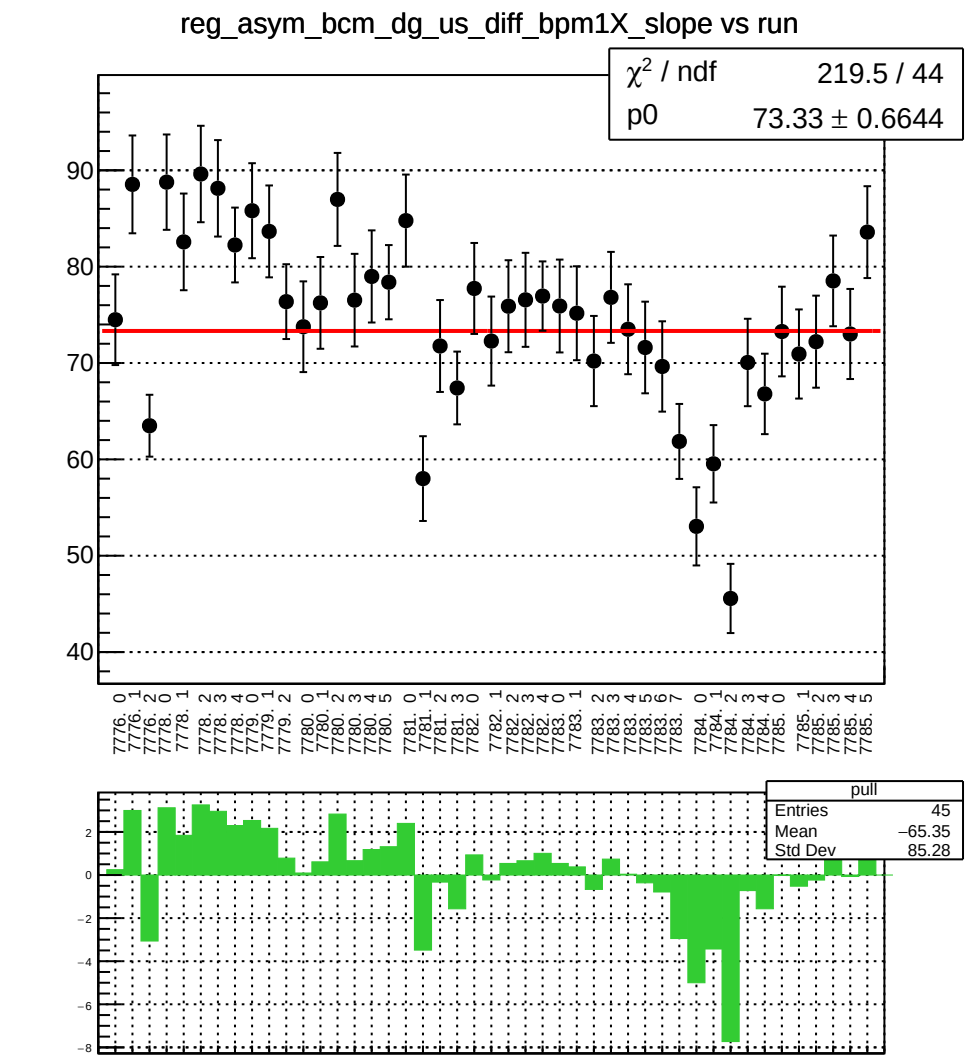

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 70.89 / 44
p0 −22.22 ± 0.6745
pull
Entries 45
Mean −63.72
Std Dev 84.44

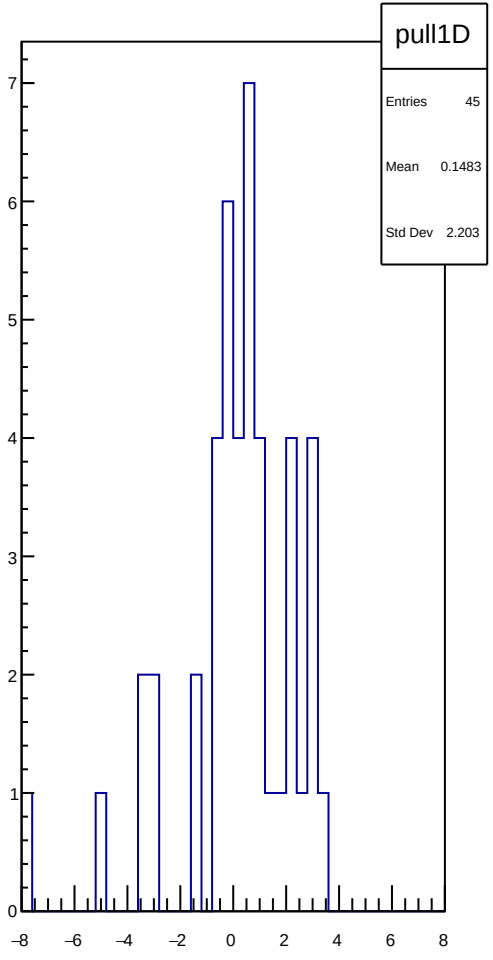

pull1D
Entries 45
Mean −0.04419
Std Dev 1.254

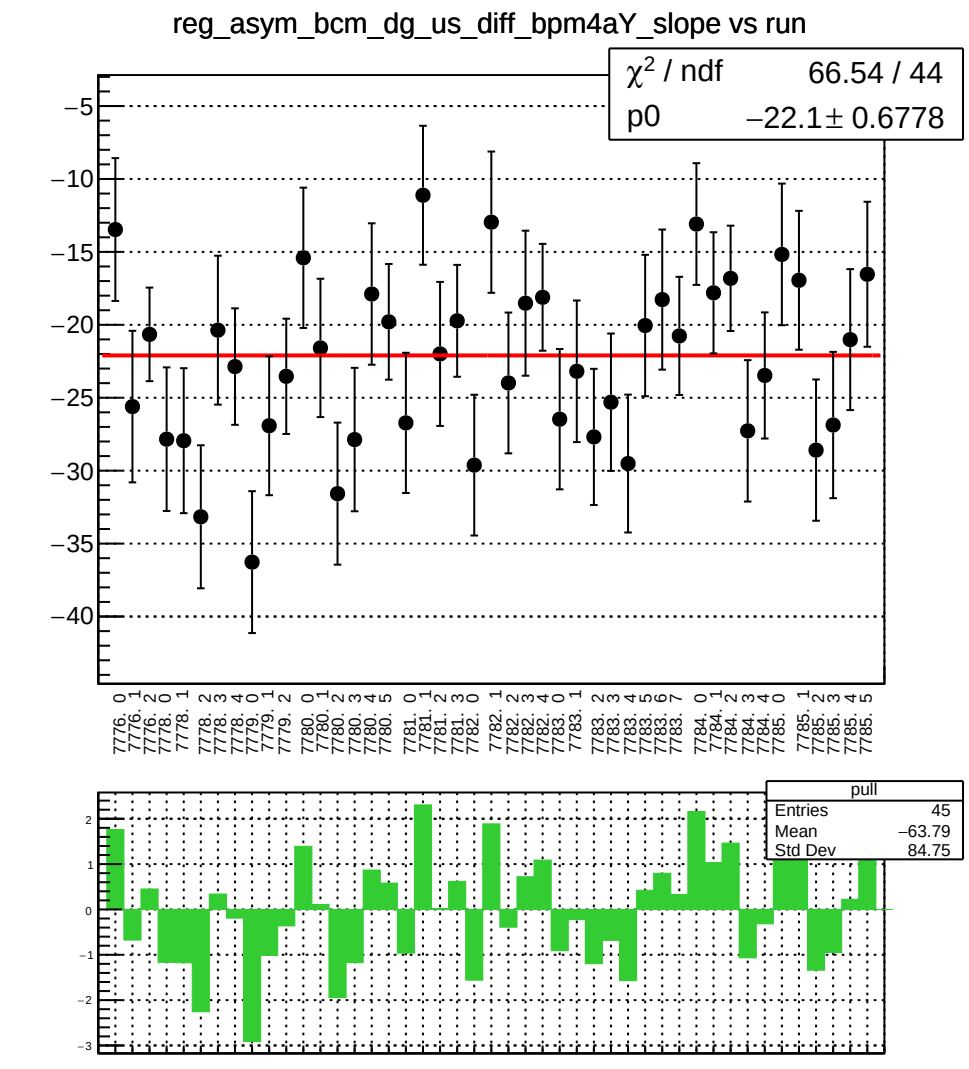

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 214.2 / 44
p0 −64.25 ± 0.5756
−40
−50
−60
−70
−80
7776. 0
7776. 1
7776. 2
7778. 0
7778. 1
7778. 2
7778. 3
7778. 4
7779. 0
7779. 1
7779. 2
7780. 0
7780. 1
7780. 2
7780. 3
7780. 4
7780. 5
7781. 0
7781. 1
7781. 2
7781. 3
7782. 0
7782. 1
7782. 2
7782. 3
7782. 4
7783. 0
7783. 1
7783. 2
7783. 3
7783. 4
7783. 5
7783. 6
7783. 7
7784. 0
7784. 1
7784. 2
7784. 3
7784. 4
7785. 0
7785. 1
7785. 2
7785. 3
7785. 4
7785. 5
pull
Entries 45
Mean −67.84
Std Dev 87.62
8
6
4
2
0
−2
pull1D
Entries 45
Mean −0.138
Std Dev 2.177
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

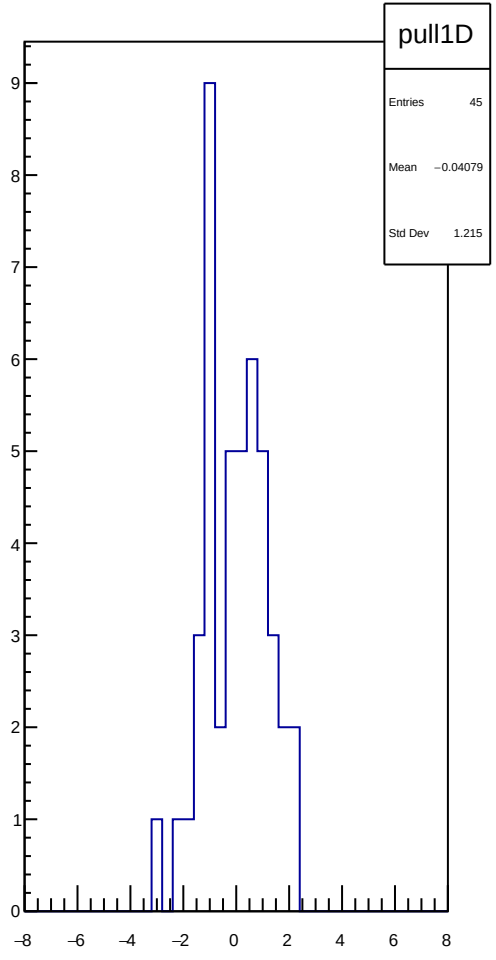

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 67.71 / 44
p0 23.17 ± 0.7615
pull
Entries 45
Mean −79.79
Std Dev 99.89
pull1D
Entries 45
Mean 0.03994
Std Dev 1.226

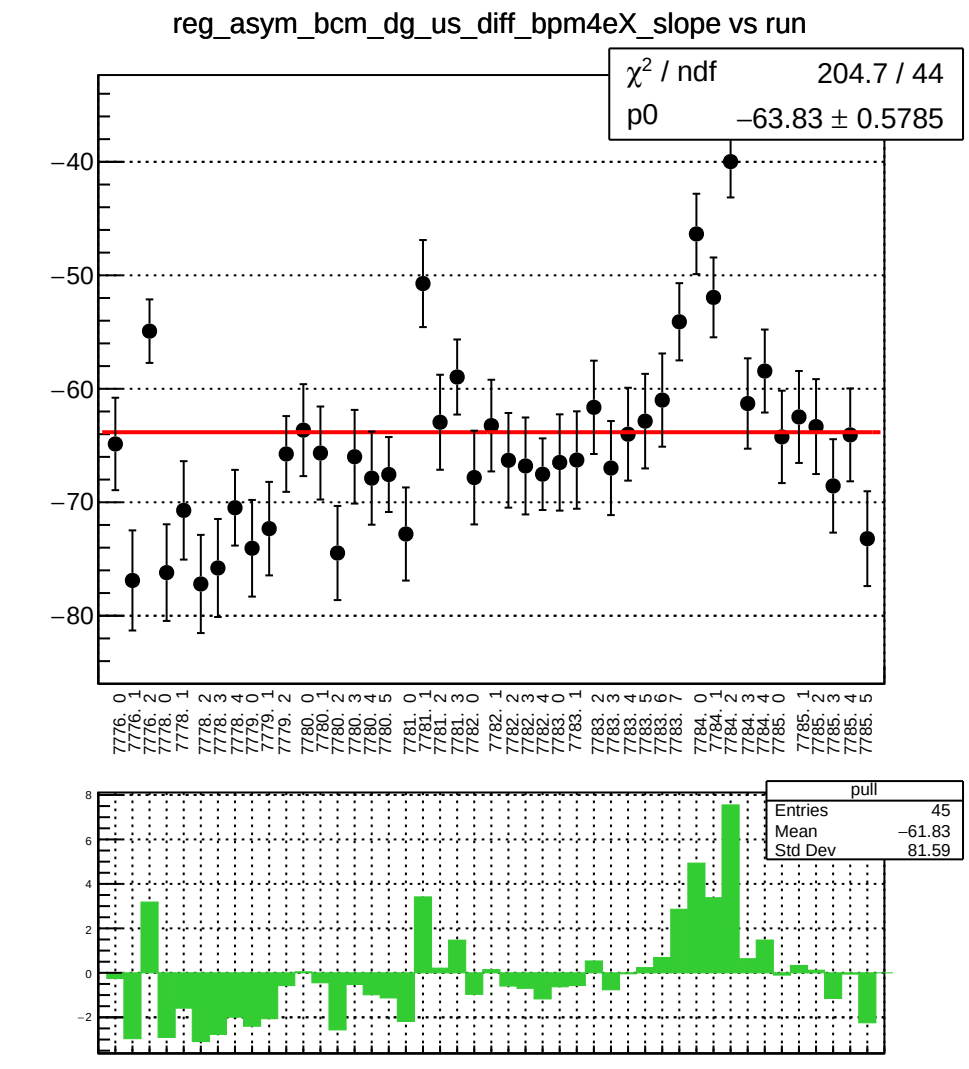

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 161.5 / 44
p0 1.818 ± 0.02402
pull
Entries 45
Mean −100.1
Std Dev 119.3
pull1D
Entries 45
Mean 0.1049
Std Dev 1.892

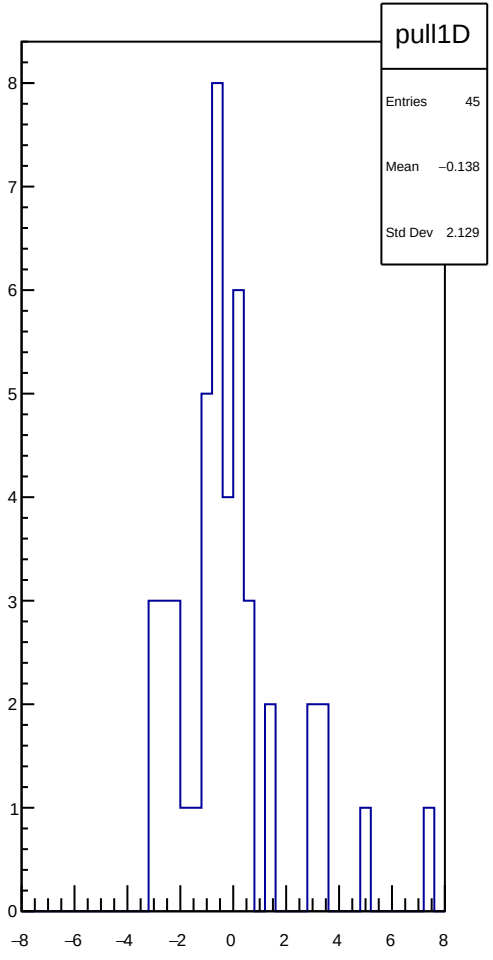

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 219.5 / 44
p0 73.33 ± 0.6644
pull
Entries 45
Mean −65.35
Std Dev 85.28

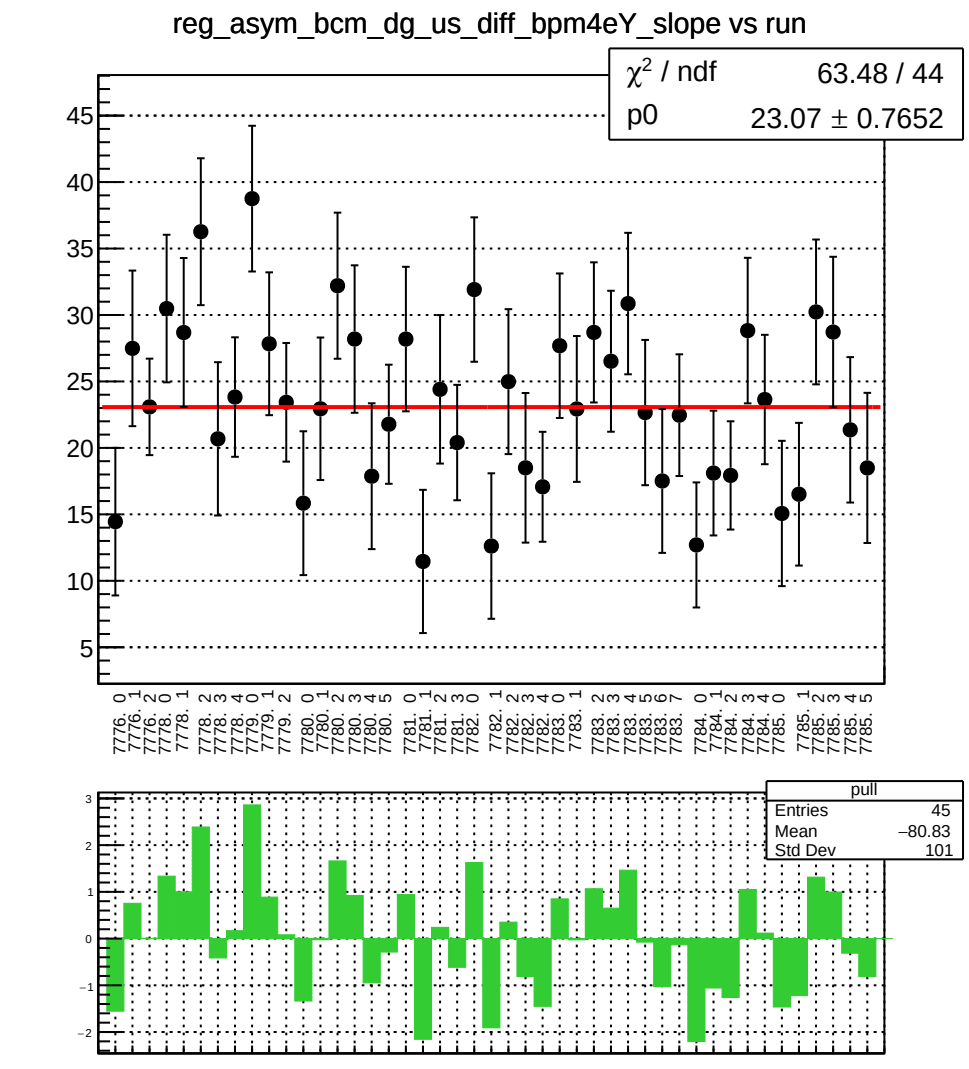

pull1D
Entries 45
Mean 0.1483
Std Dev 2.203

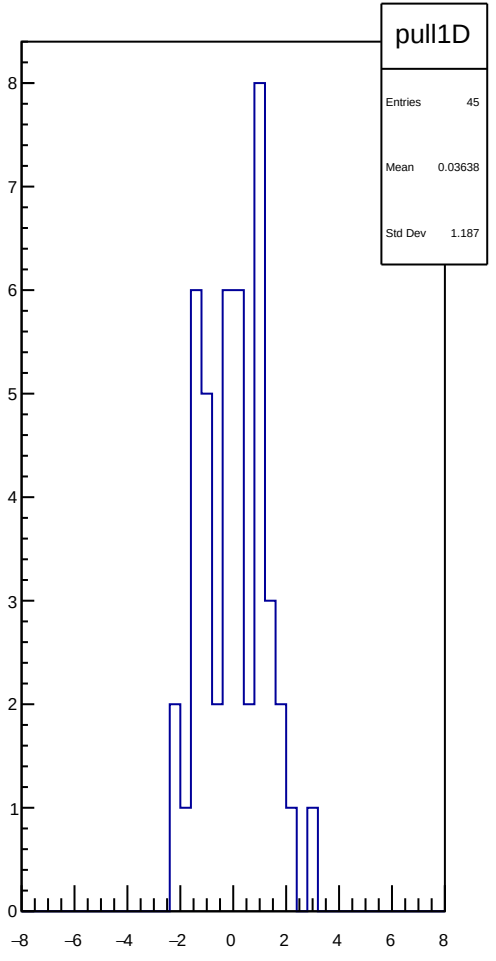

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 66.54 / 44
p0 −22.1 ± 0.6778
pull
Entries 45
Mean −63.79
Std Dev 84.75

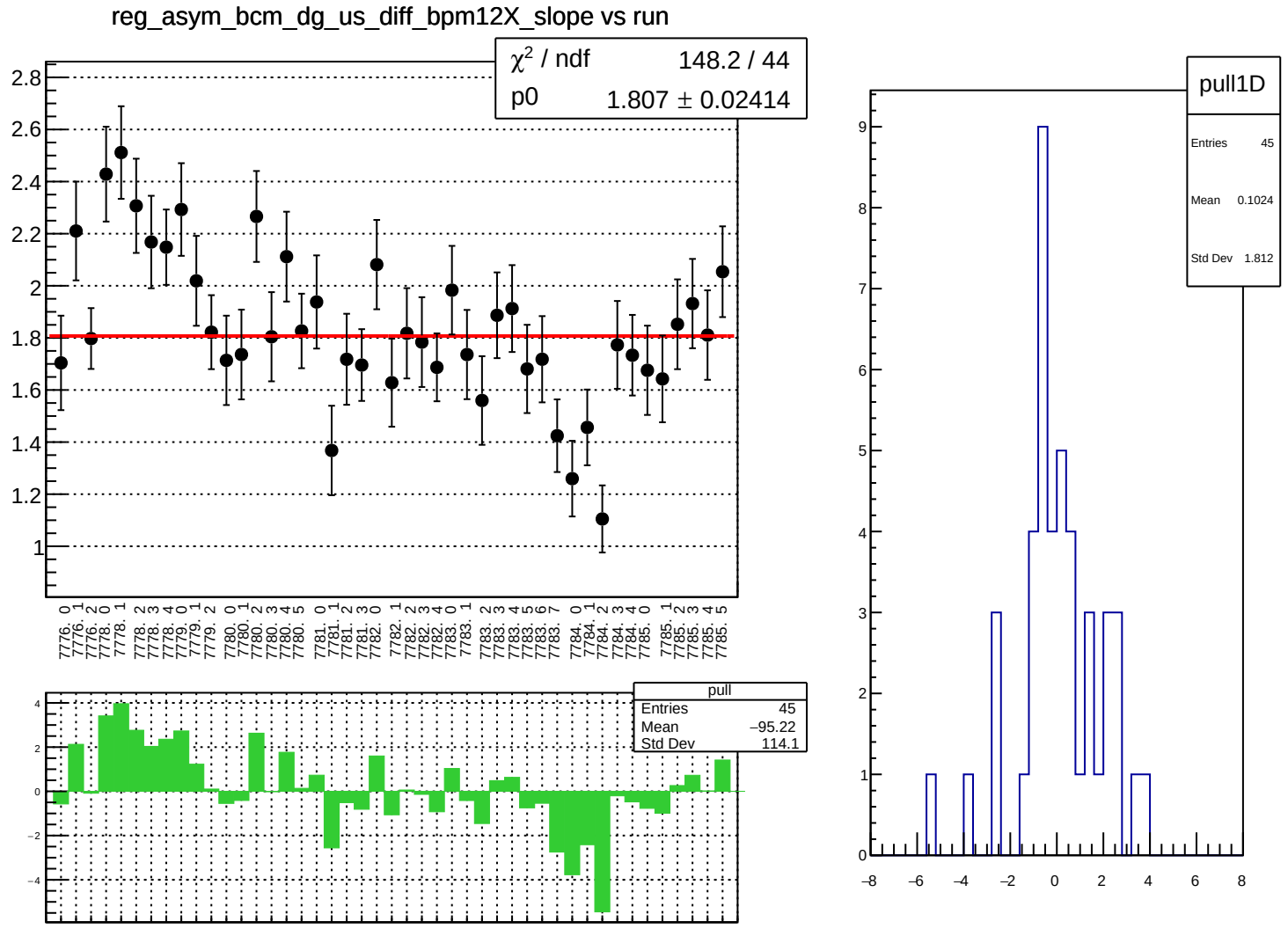

pull1D
Entries 45
Mean −0.04079
Std Dev 1.215


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 204.7 / 44
p0 −63.83 ± 0.5785
pull
Entries 45
Mean −61.83
Std Dev 81.59


pull1D
Entries 45
Mean −0.138
Std Dev 2.129


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 63.48 / 44
p0 23.07 ± 0.7652
pull
Entries 45
Mean −80.83
Std Dev 101


pull1D
Entries 45
Mean 0.03638
Std Dev 1.187


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 148.2 / 44
p0 1.807 ± 0.02414
pull
Entries 45
Mean −95.22
Std Dev 114.1
pull1D
Entries 45
Mean 0.1024
Std Dev 1.812