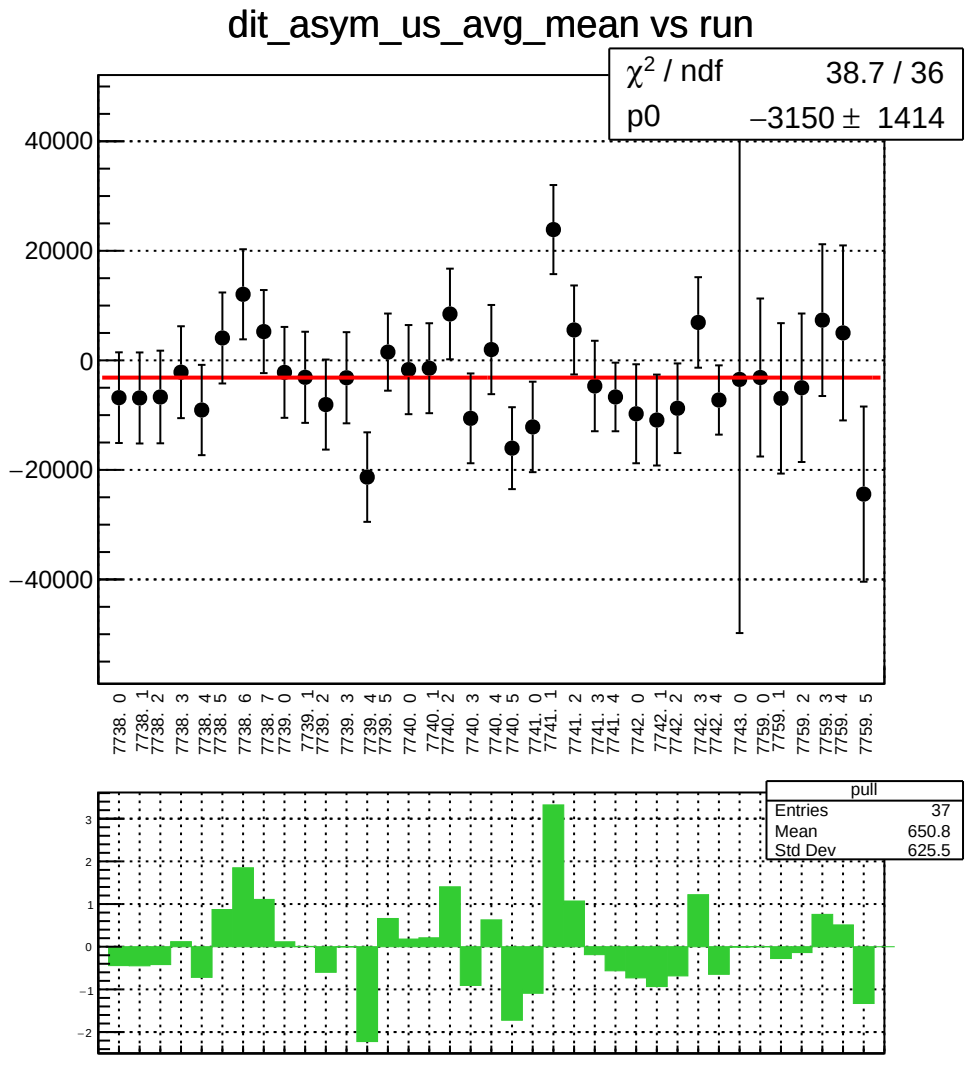
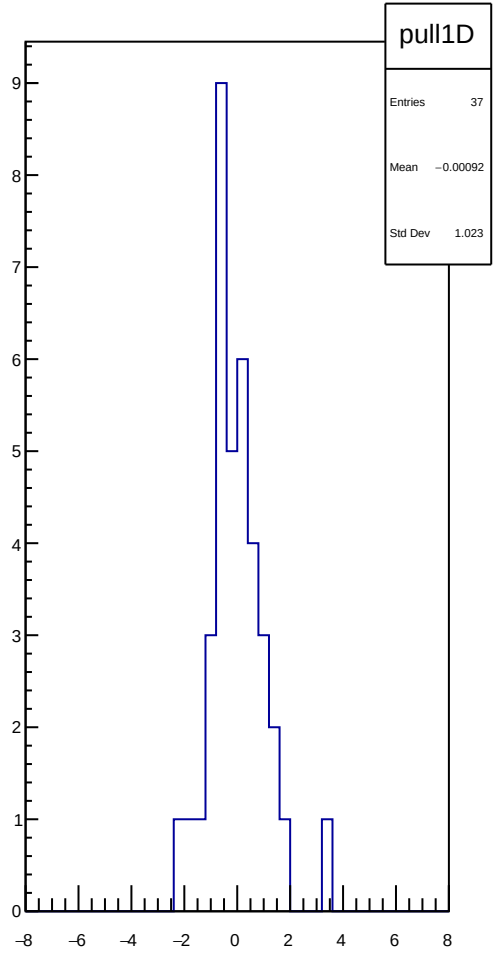
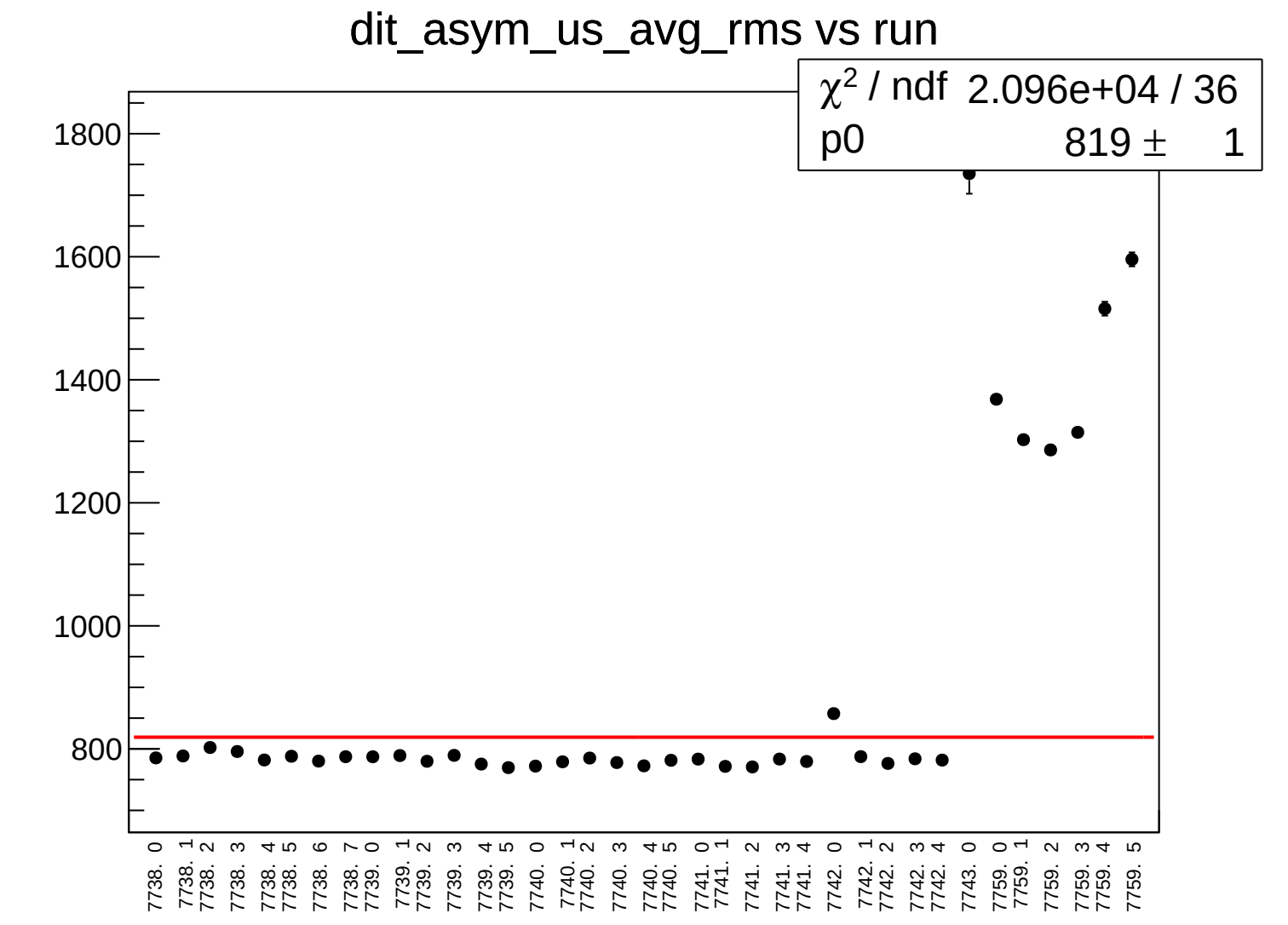
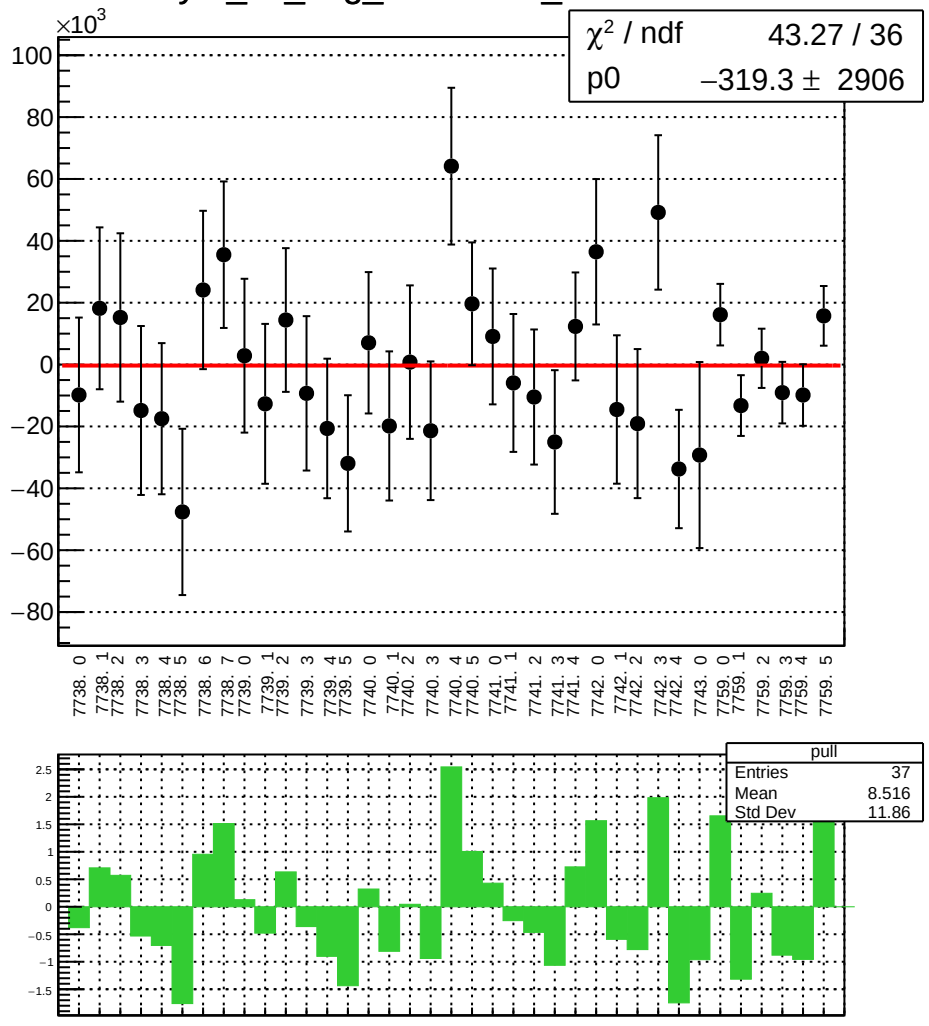
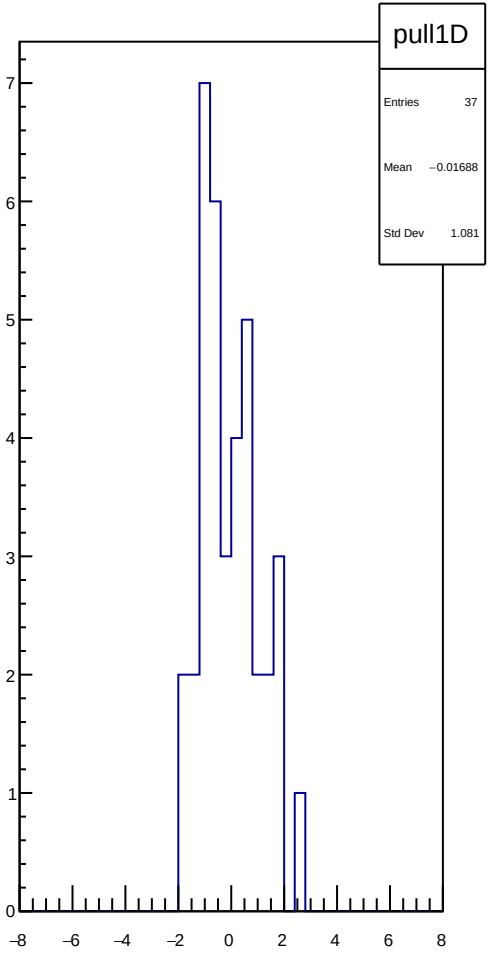
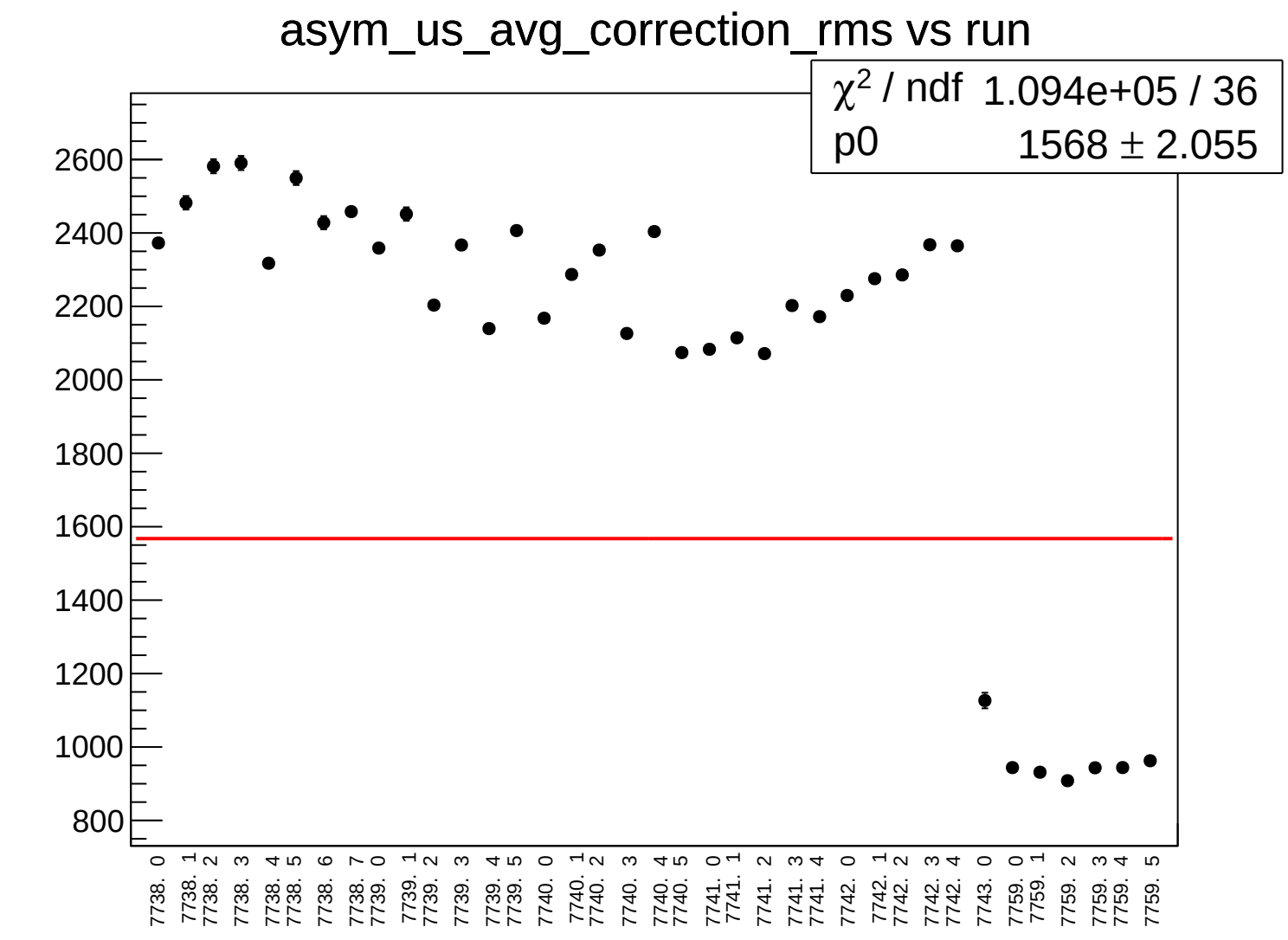

dit_asym_us_avg_mean vs run
χ² / ndf 38.7 / 36
p0 −3150 ± 1414
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 650.8
Std Dev 625.5
3
2
1
0
−1
−2

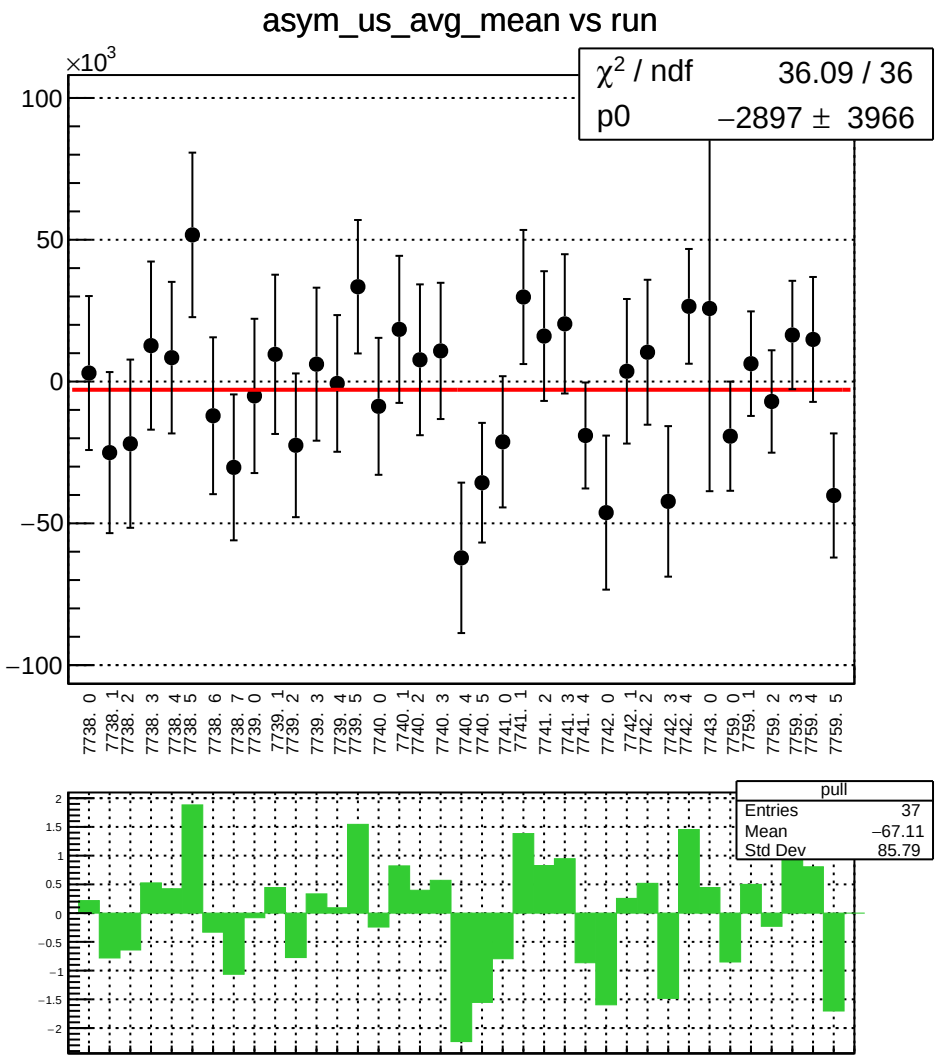

pull1D
Entries 37
Mean −0.00092
Std Dev 1.023
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

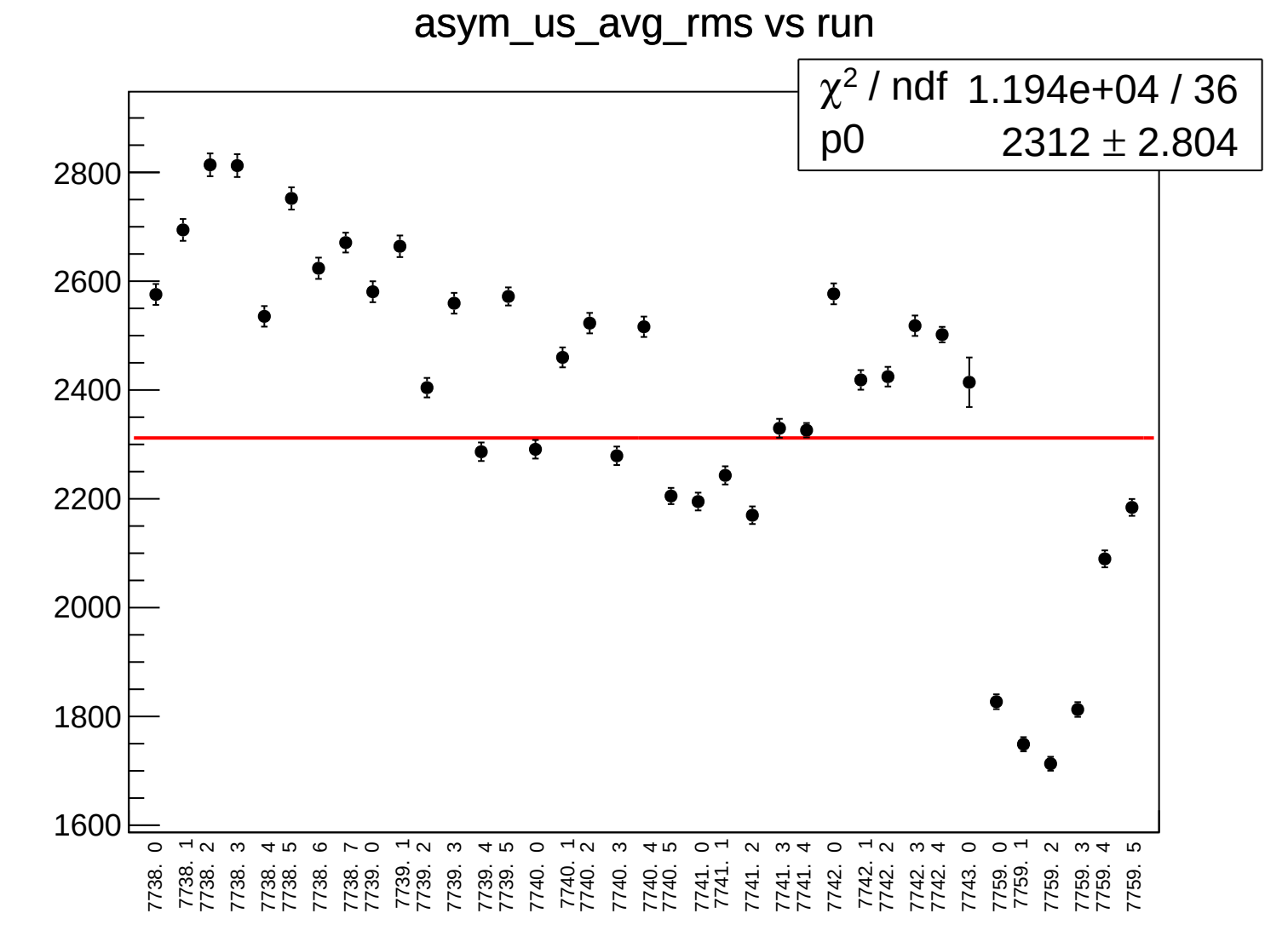

dit_asym_us_avg_rms vs run
χ² / ndf 2.096e+04 / 36
p0 819 ± 1
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

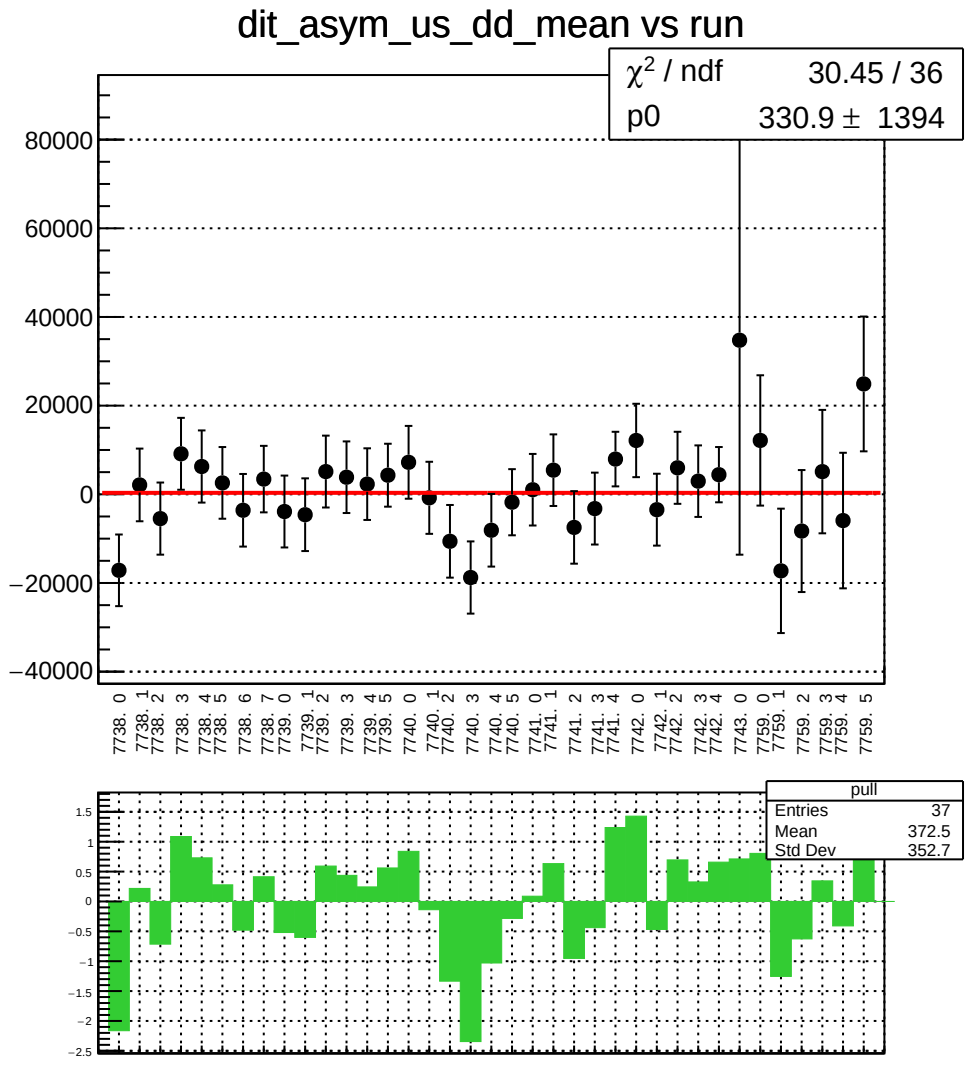

asym_us_avg_correction_mean vs run
×10^3
χ² / ndf 43.27 / 36
p0 −319.3 ± 2906
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.516
Std Dev 11.86
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

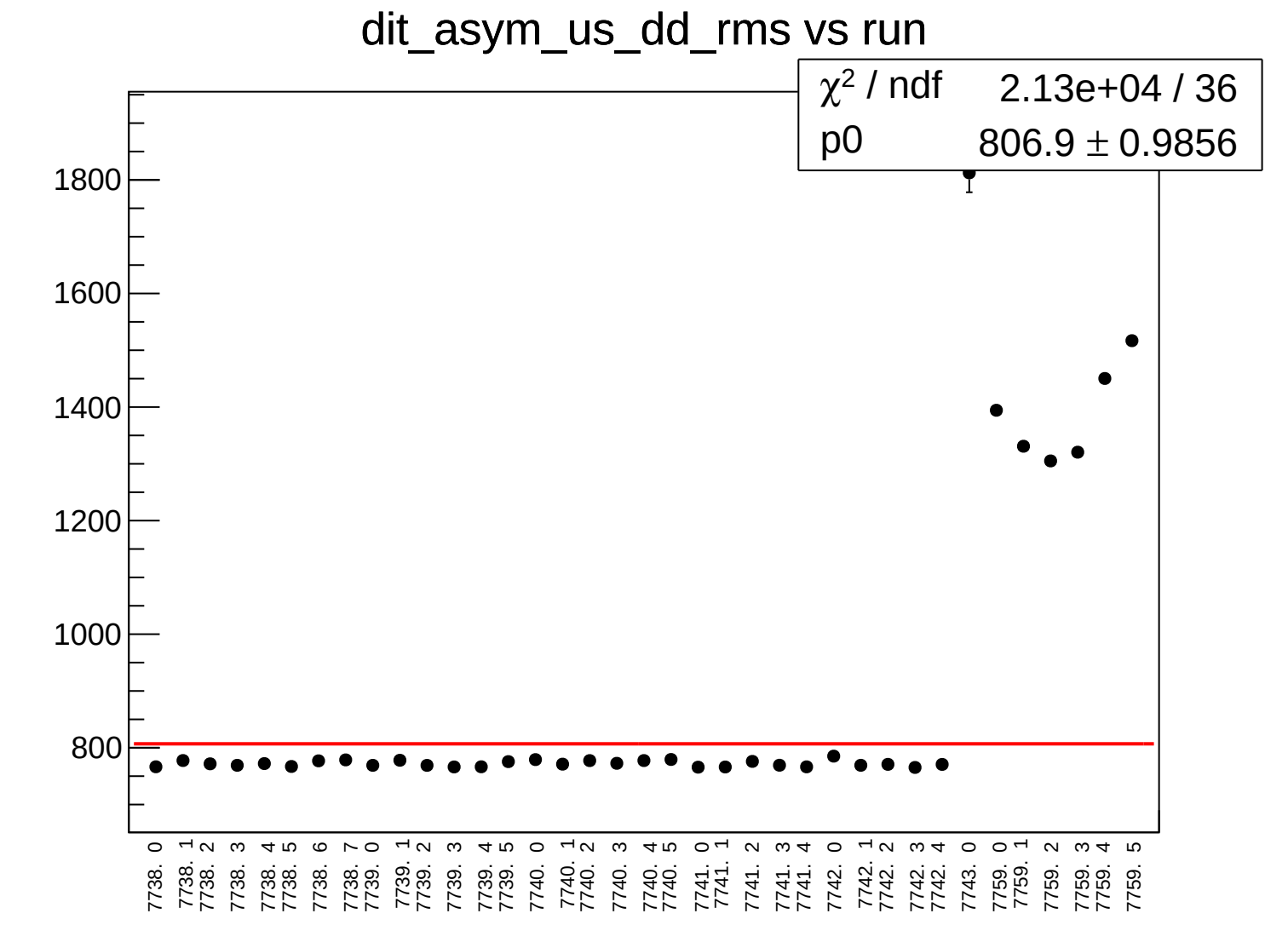

pull1D
Entries 37
Mean −0.01688
Std Dev 1.081
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

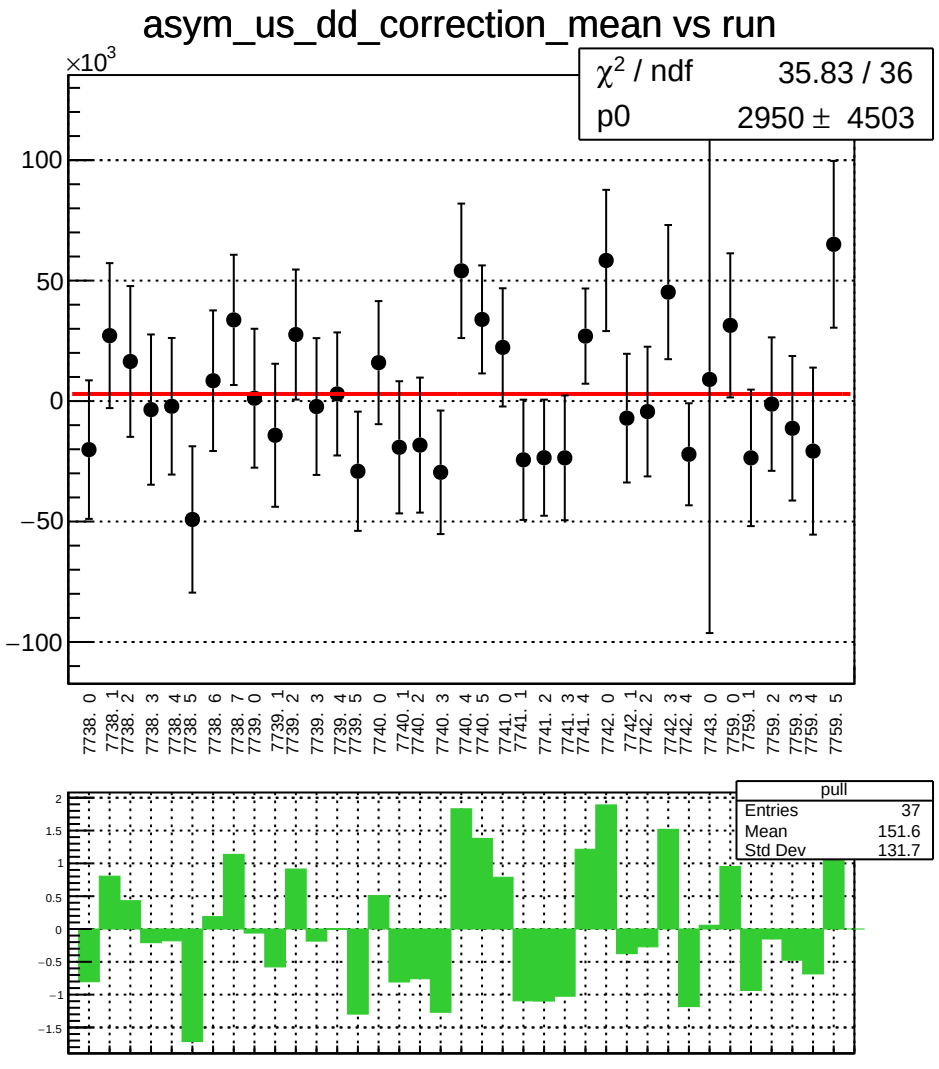

asym_us_avg_correction_rms vs run
χ² / ndf 1.094e+05 / 36
p0 1568 ± 2.055
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

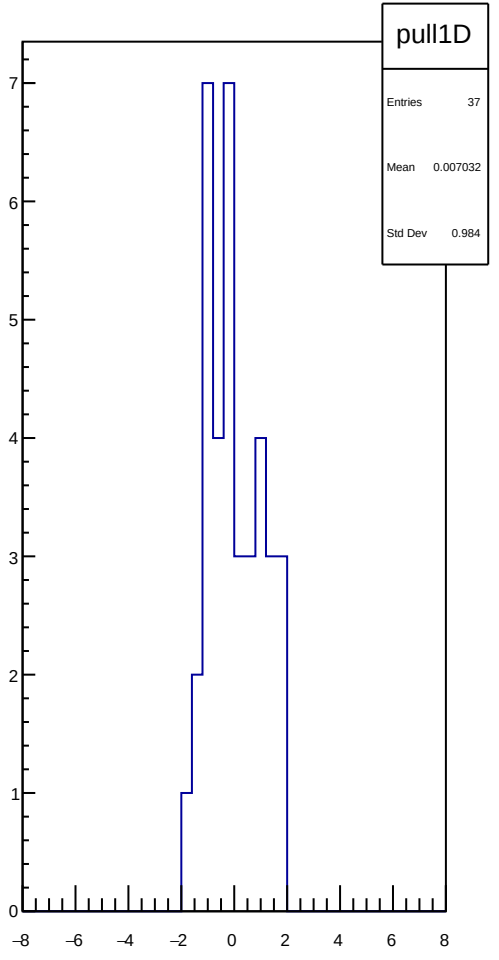

asym_us_avg_mean vs run
×10^3
χ² / ndf 36.09 / 36
p0 −2897 ± 3966
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −67.11
Std Dev 85.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.005009
Std Dev 0.9876
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

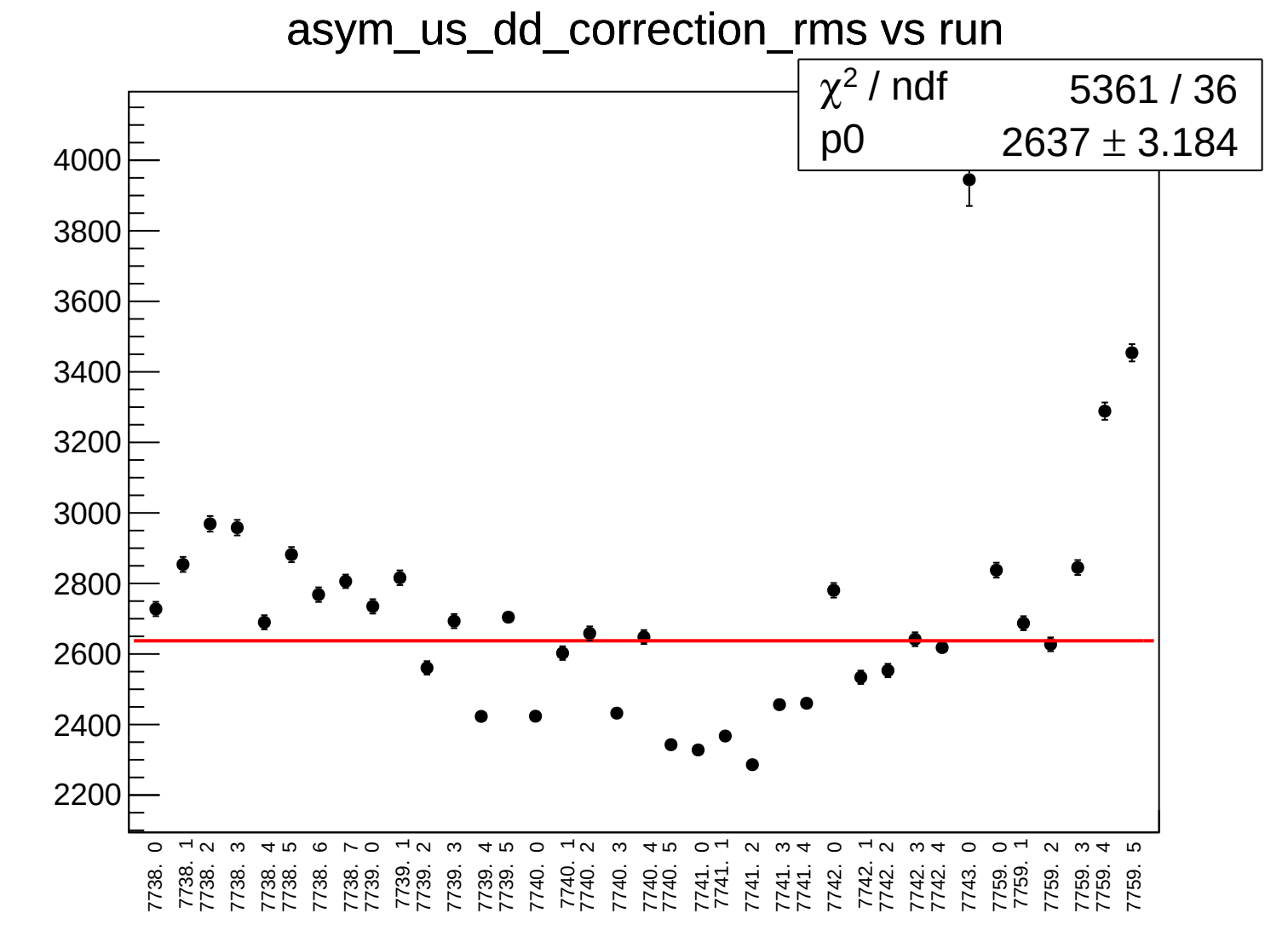

asym_us_avg_rms vs run
χ² / ndf 1.194e+04 / 36
p0 2312 ± 2.804
2800
2600
2400
2200
2000
1800
1600
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

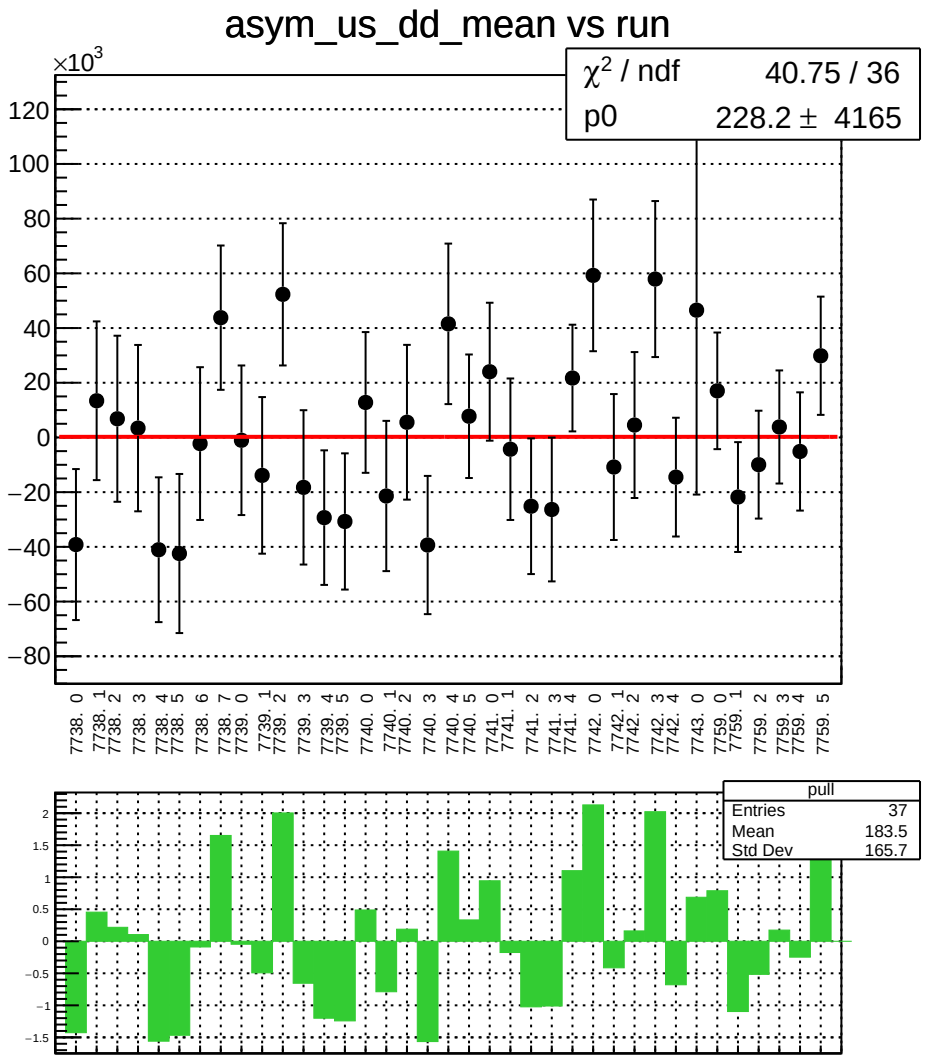

dit_asym_us_dd_mean vs run
χ² / ndf 30.45 / 36
p0 330.9 ± 1394
80000
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 372.5
Std Dev 352.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean 0.004907
Std Dev 0.9071
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

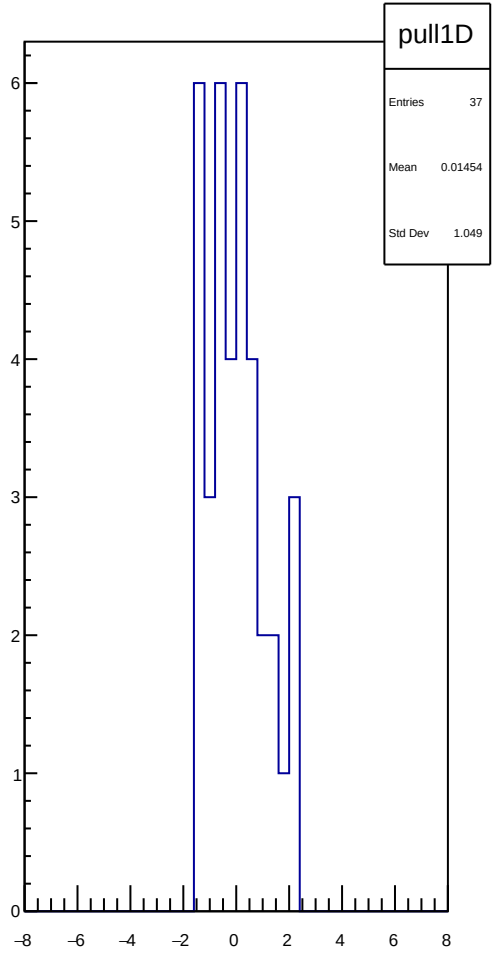

dit_asym_us_dd_rms vs run
χ² / ndf 2.13e+04 / 36
p0 806.9 ± 0.9856
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

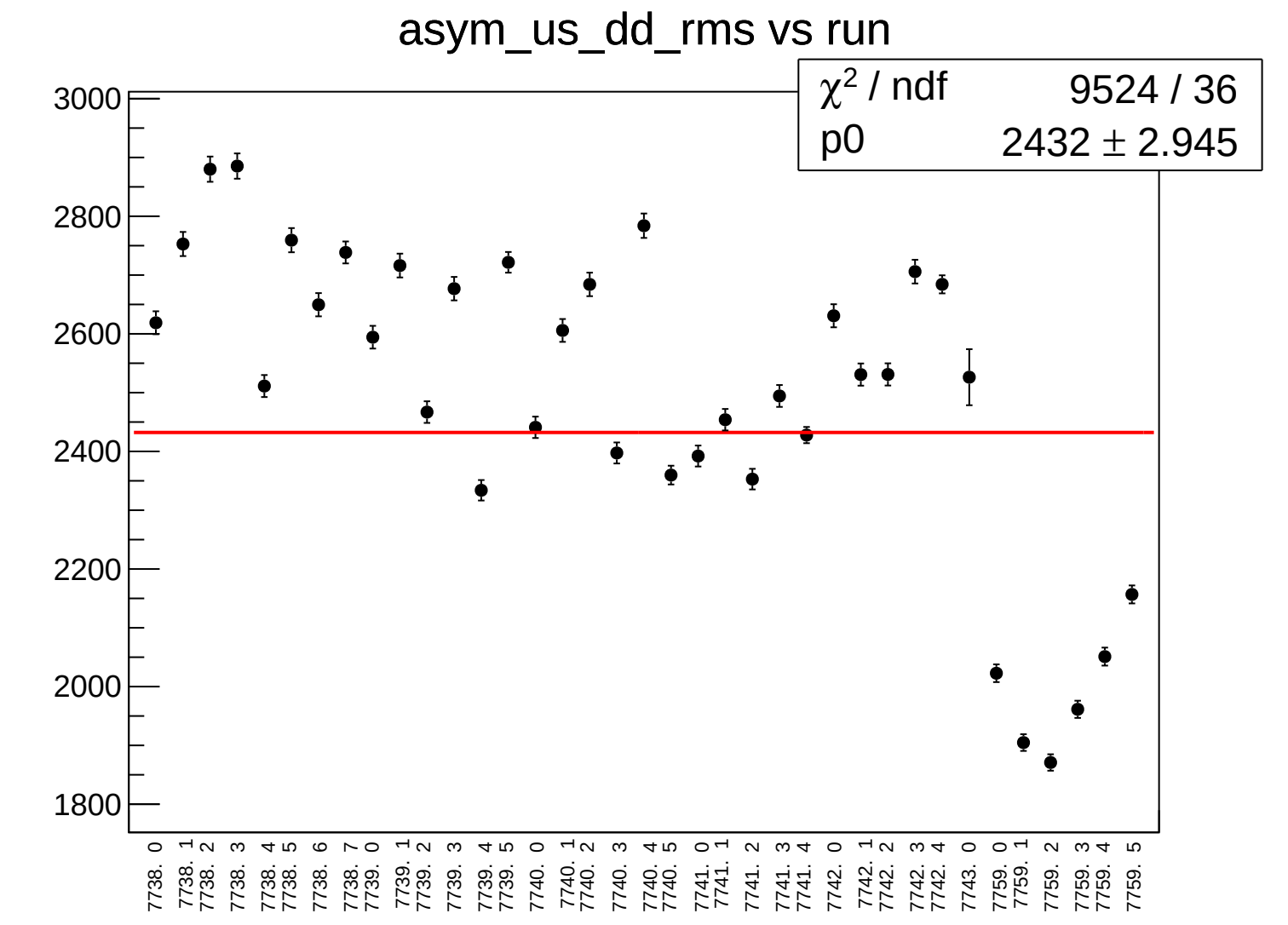

asym_us_dd_correction_mean vs run
×10^3
χ² / ndf 35.83 / 36
p0 2950 ± 4503
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 151.6
Std Dev 131.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

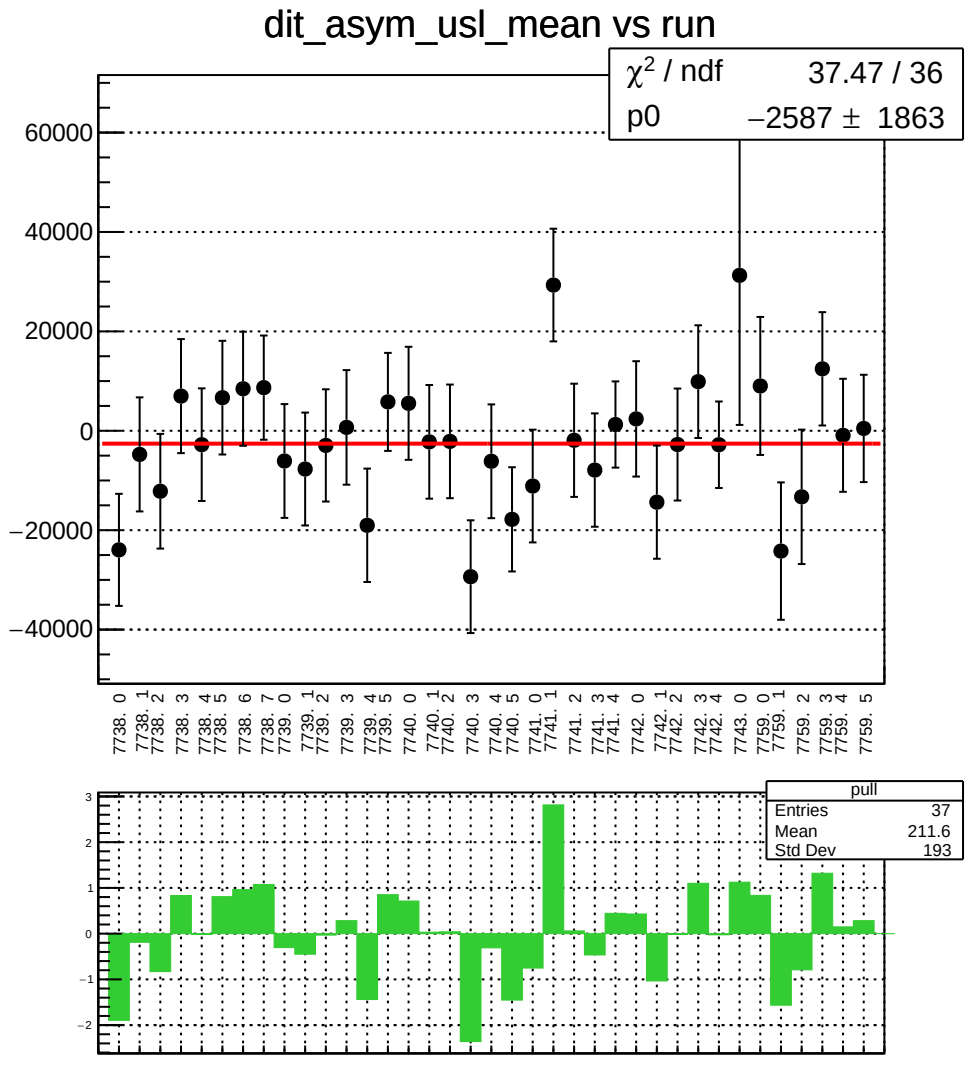

pull1D
Entries 37
Mean 0.007032
Std Dev 0.984
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

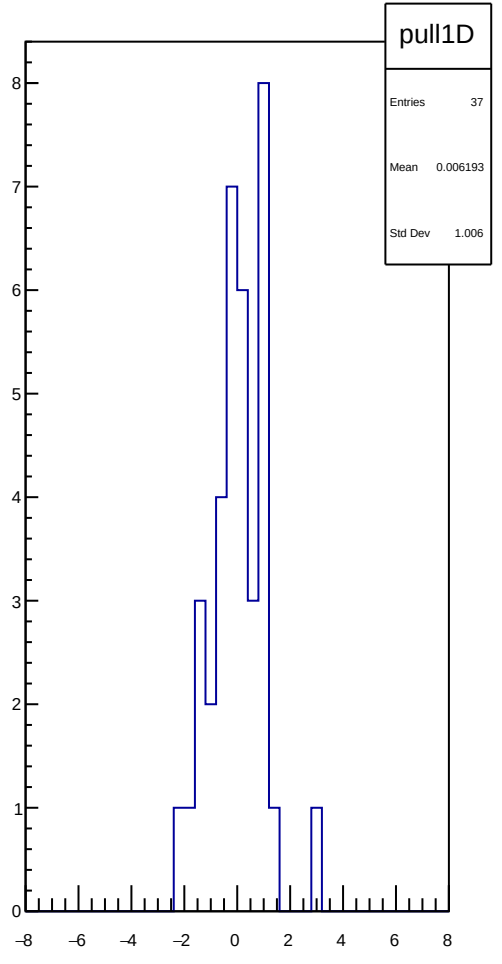

asym_us_dd_correction_rms vs run
χ² / ndf 5361 / 36
p0 2637 ± 3.184
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

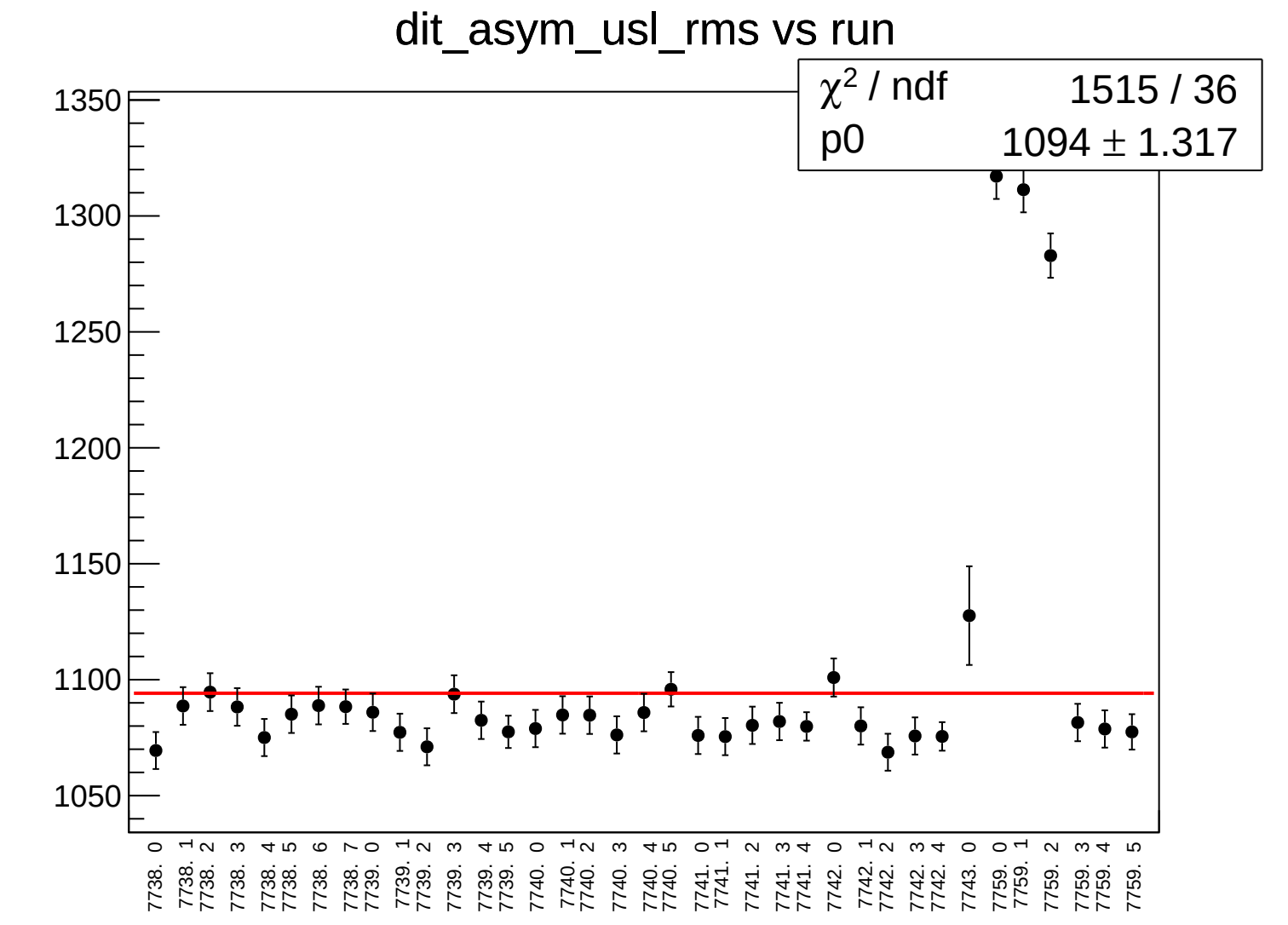

asym_us_dd_mean vs run
×10^3
χ^2 / ndf 40.75 / 36
p0 228.2 ± 4165
120
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 183.5
Std Dev 165.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

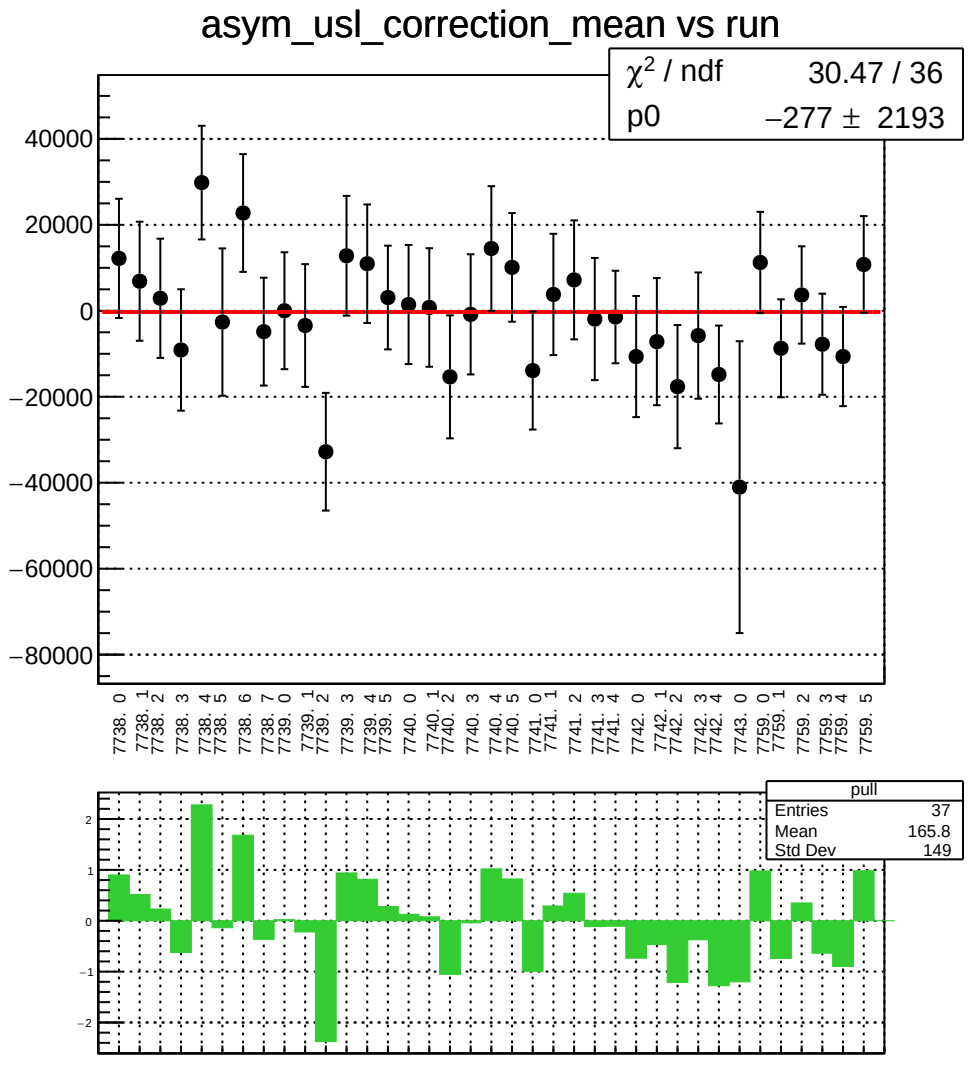

pull1D
Entries 37
Mean 0.01454
Std Dev 1.049
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

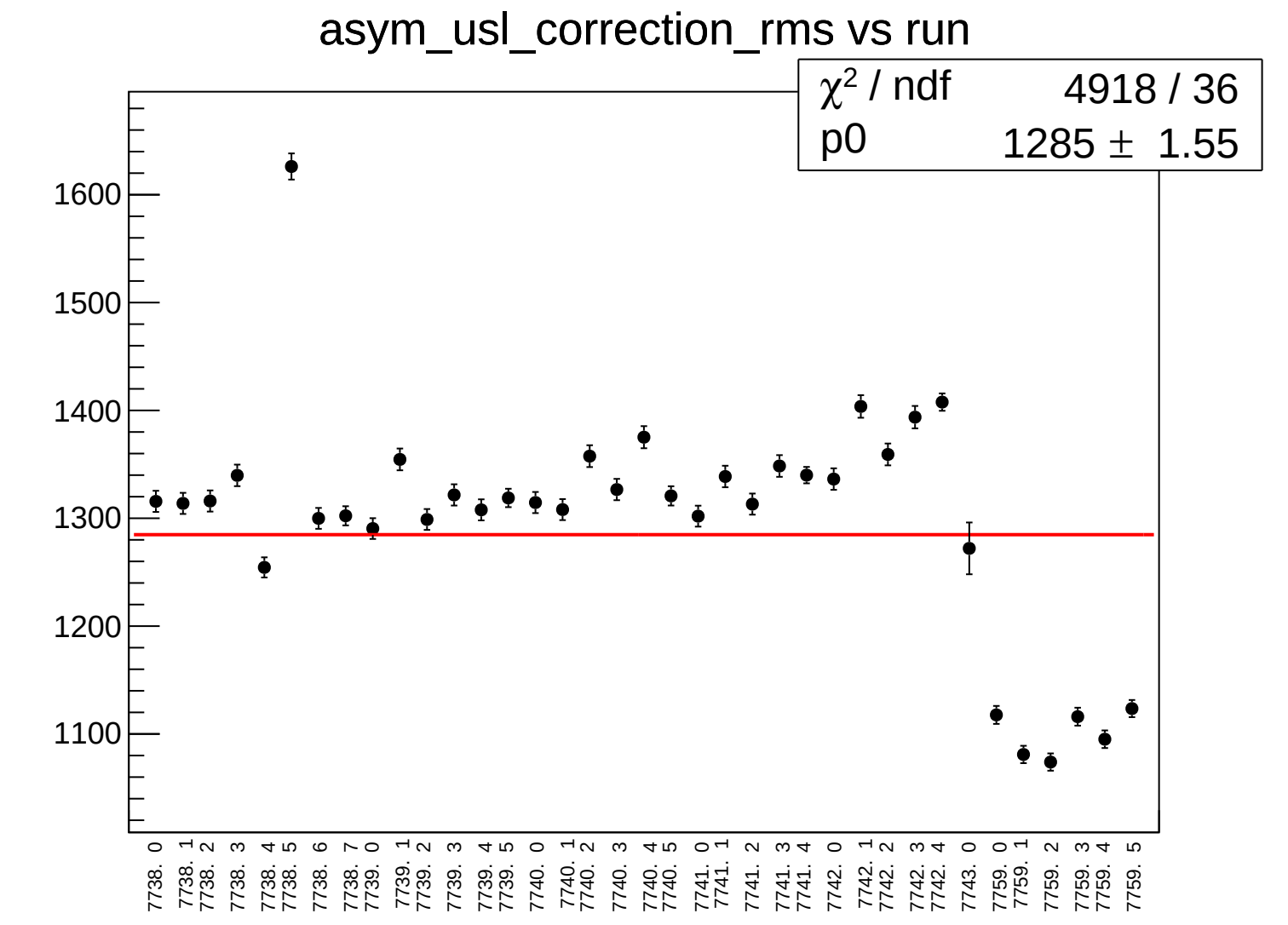

asym_us_dd_rms vs run
χ² / ndf 9524 / 36
p0 2432 ± 2.945
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

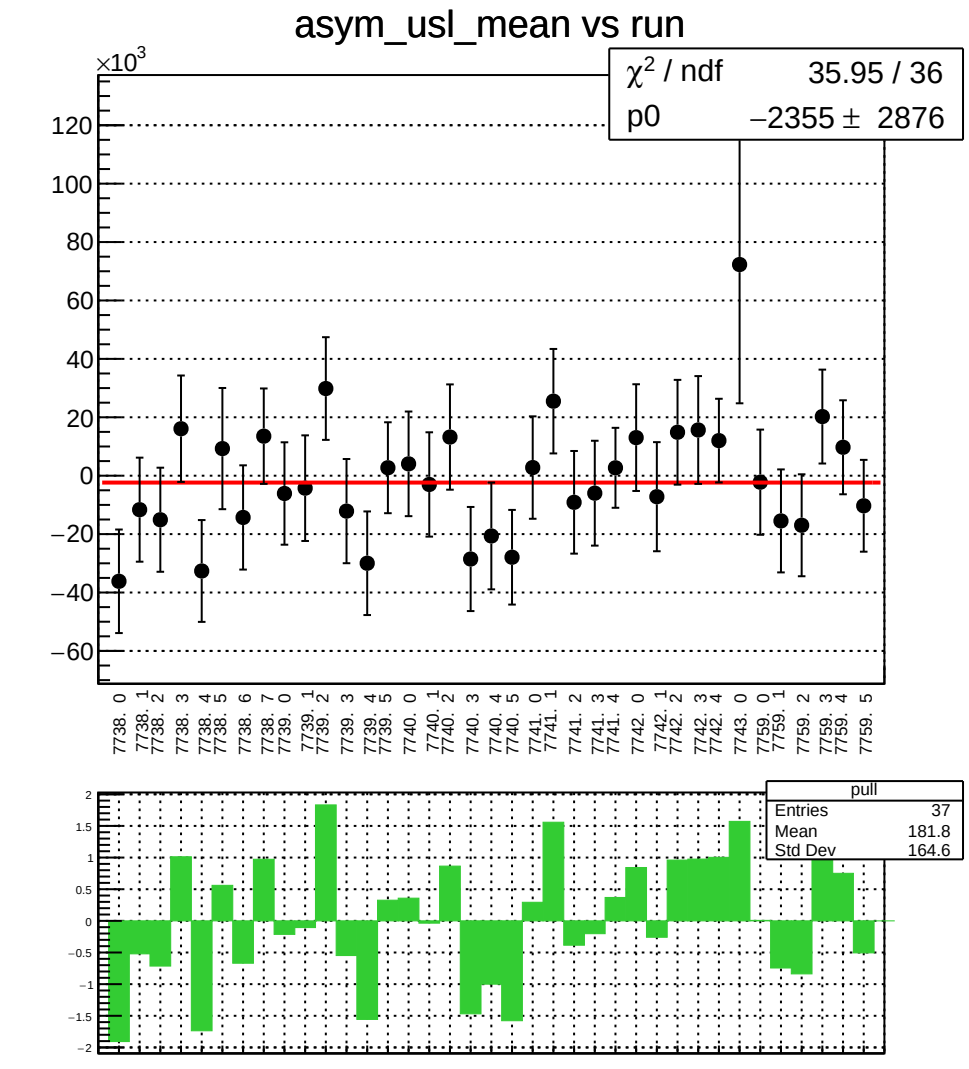

dit_asym_usl_mean vs run
χ² / ndf 37.47 / 36
p0 −2587 ± 1863
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 211.6
Std Dev 193
3
2
1
0
−1
−2

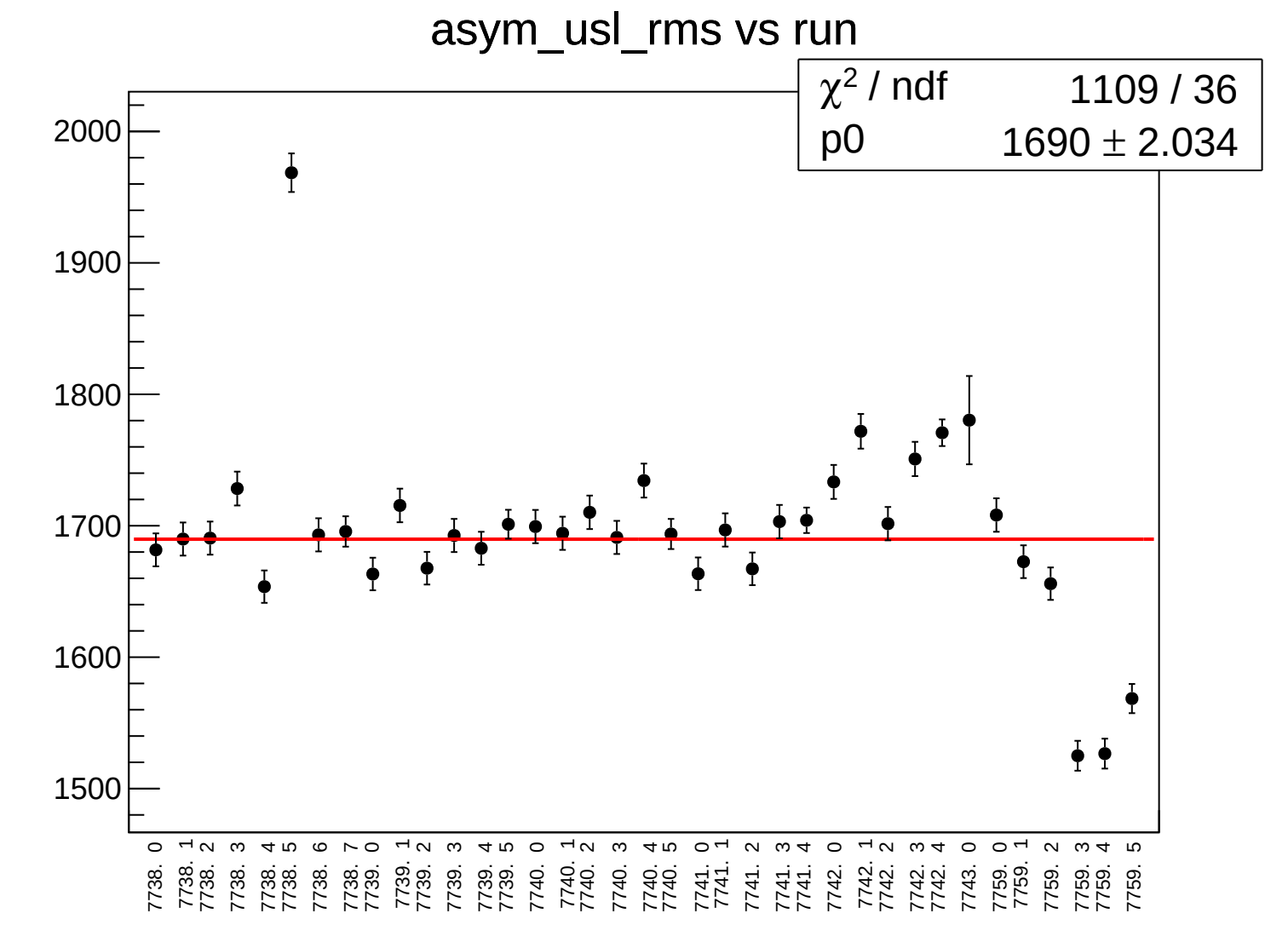

pull1D
Entries 37
Mean 0.006193
Std Dev 1.006
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

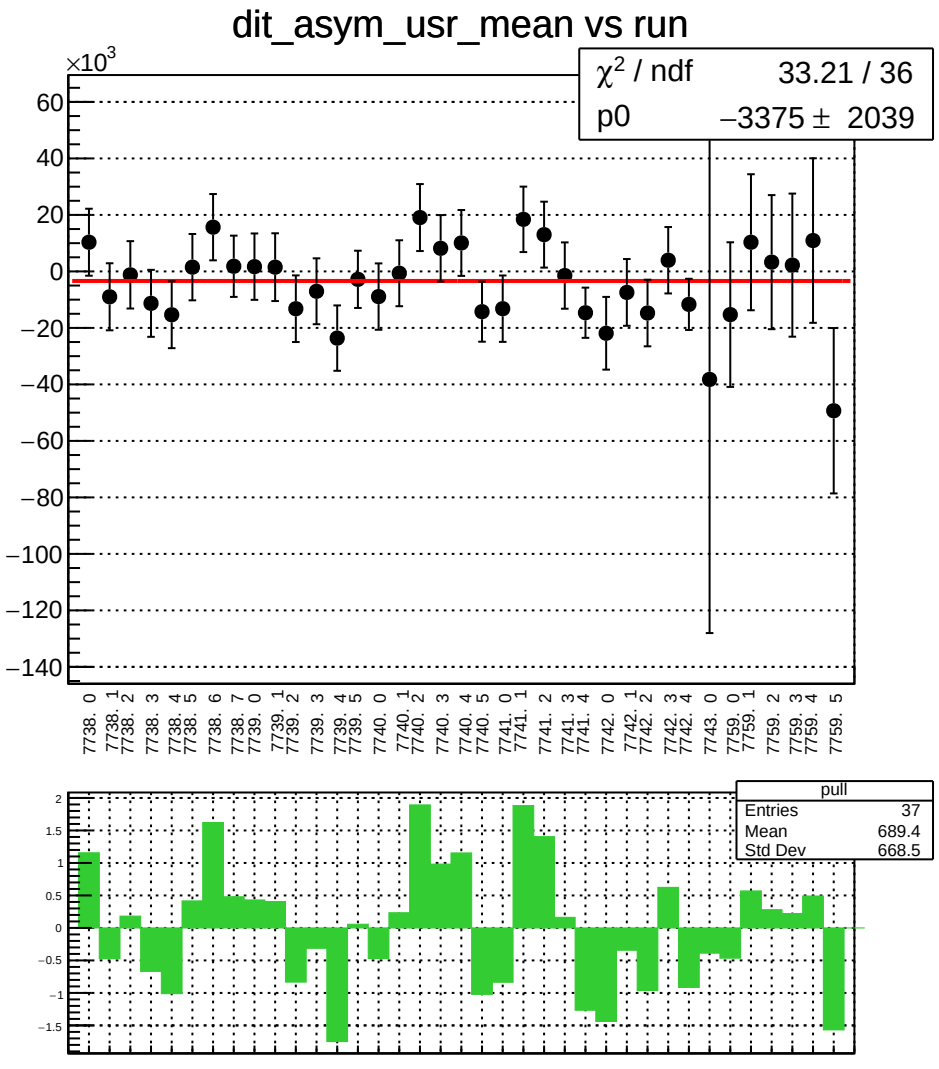

dit_asym_usl_rms vs run
χ² / ndf 1515 / 36
p0 1094 ± 1.317
1350
1300
1250
1200
1150
1100
1050
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

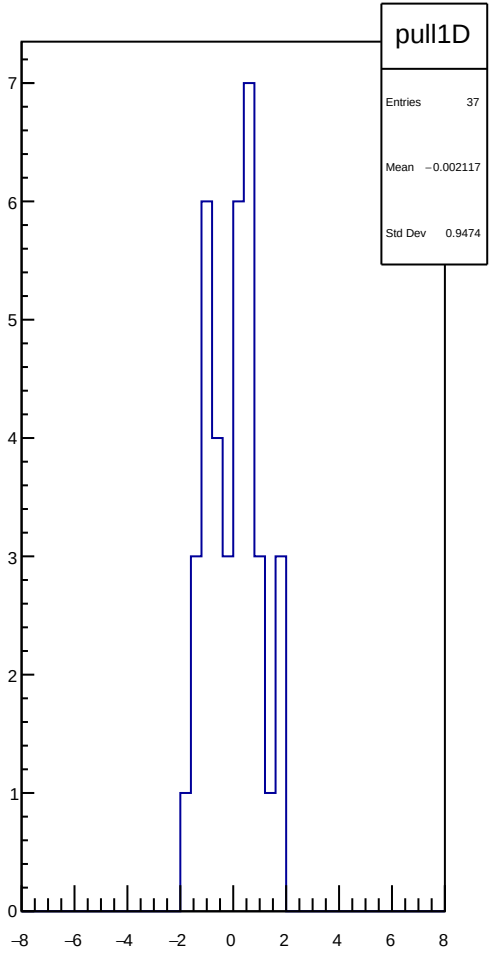

asym_usl_correction_mean vs run
χ² / ndf 30.47 / 36
p0 −277 ± 2193
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 165.8
Std Dev 149
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.01977
Std Dev 0.9073
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

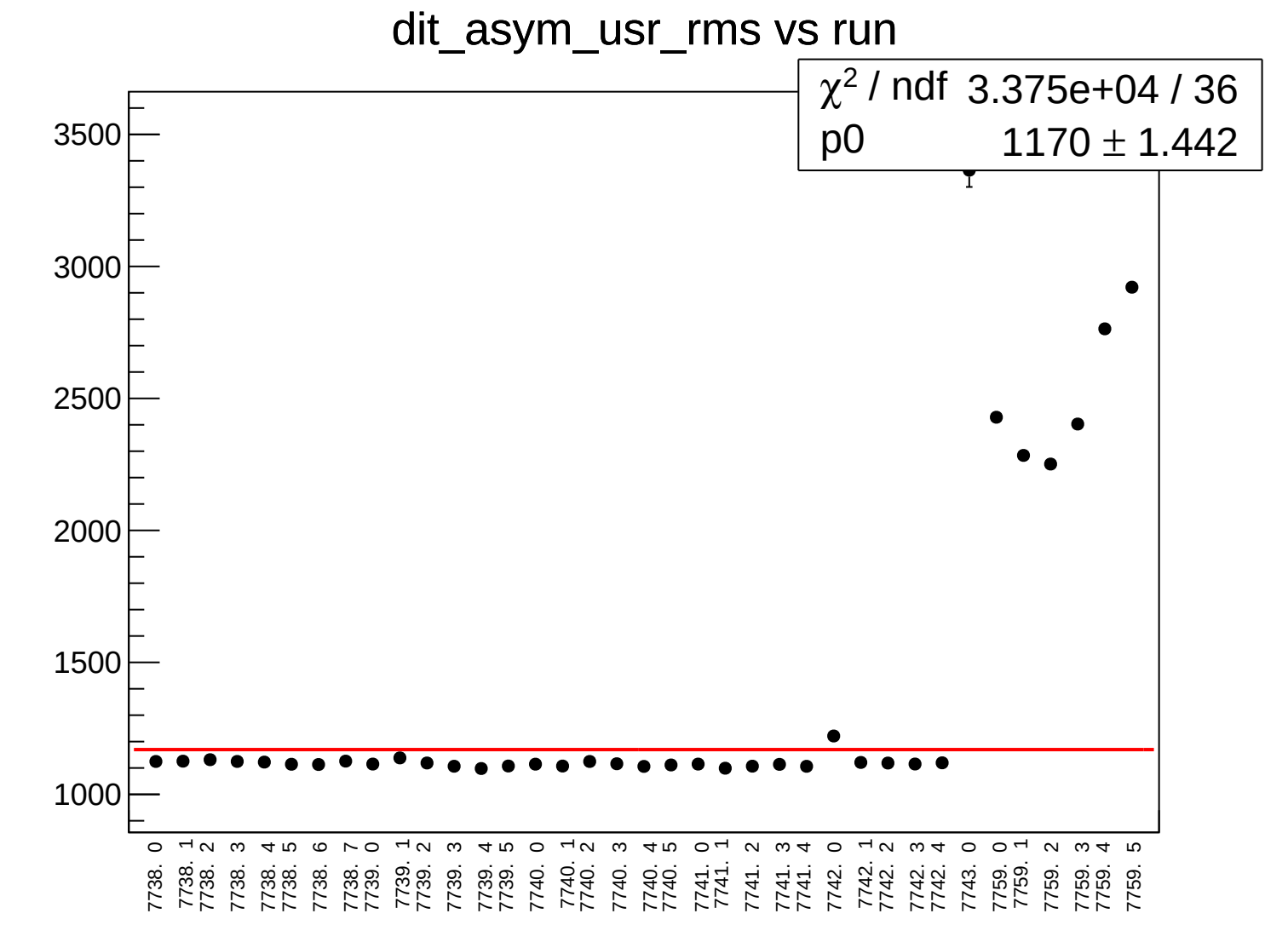

asym_usl_correction_rms vs run
χ² / ndf 4918 / 36
p0 1285 ± 1.55
1600
1500
1400
1300
1200
1100
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

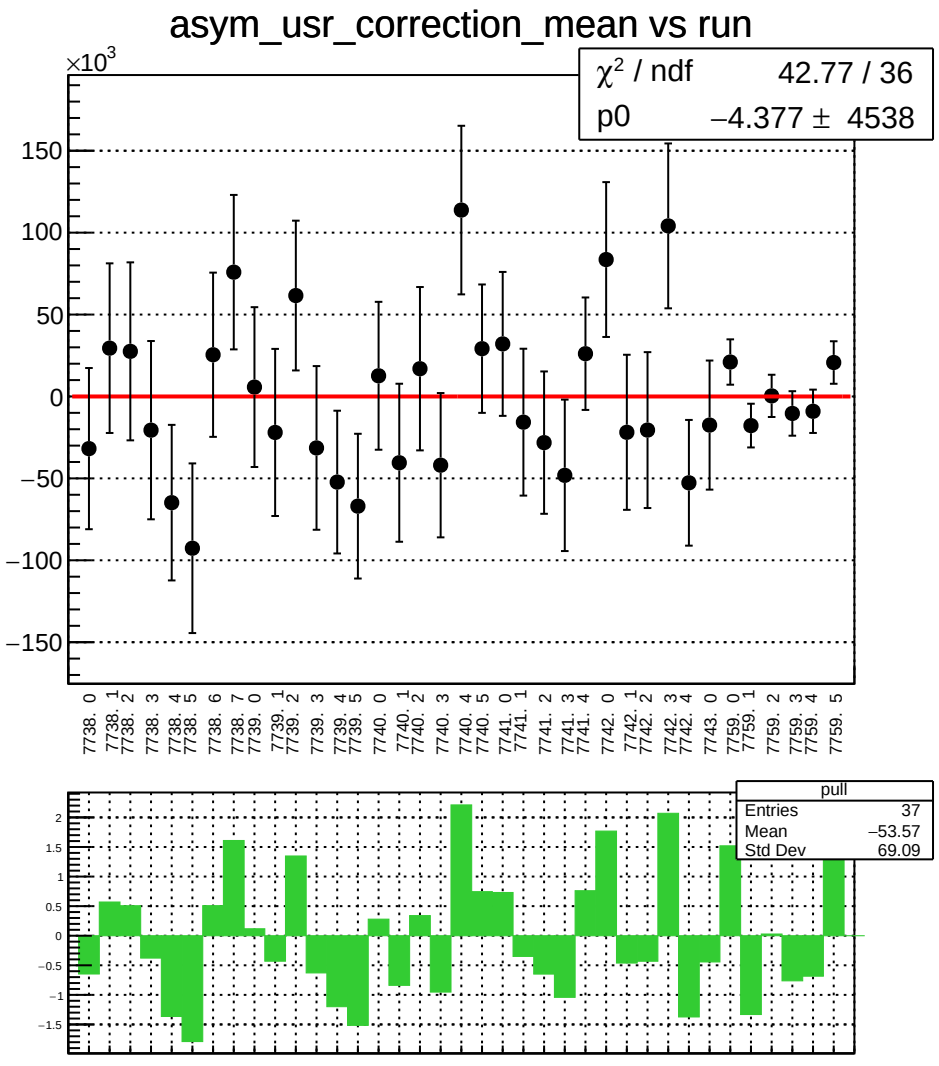

asym_usl_mean vs run
×10^3
χ² / ndf 35.95 / 36
p0 −2355 ± 2876
120
100
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.8
Std Dev 164.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01835
Std Dev 0.9855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

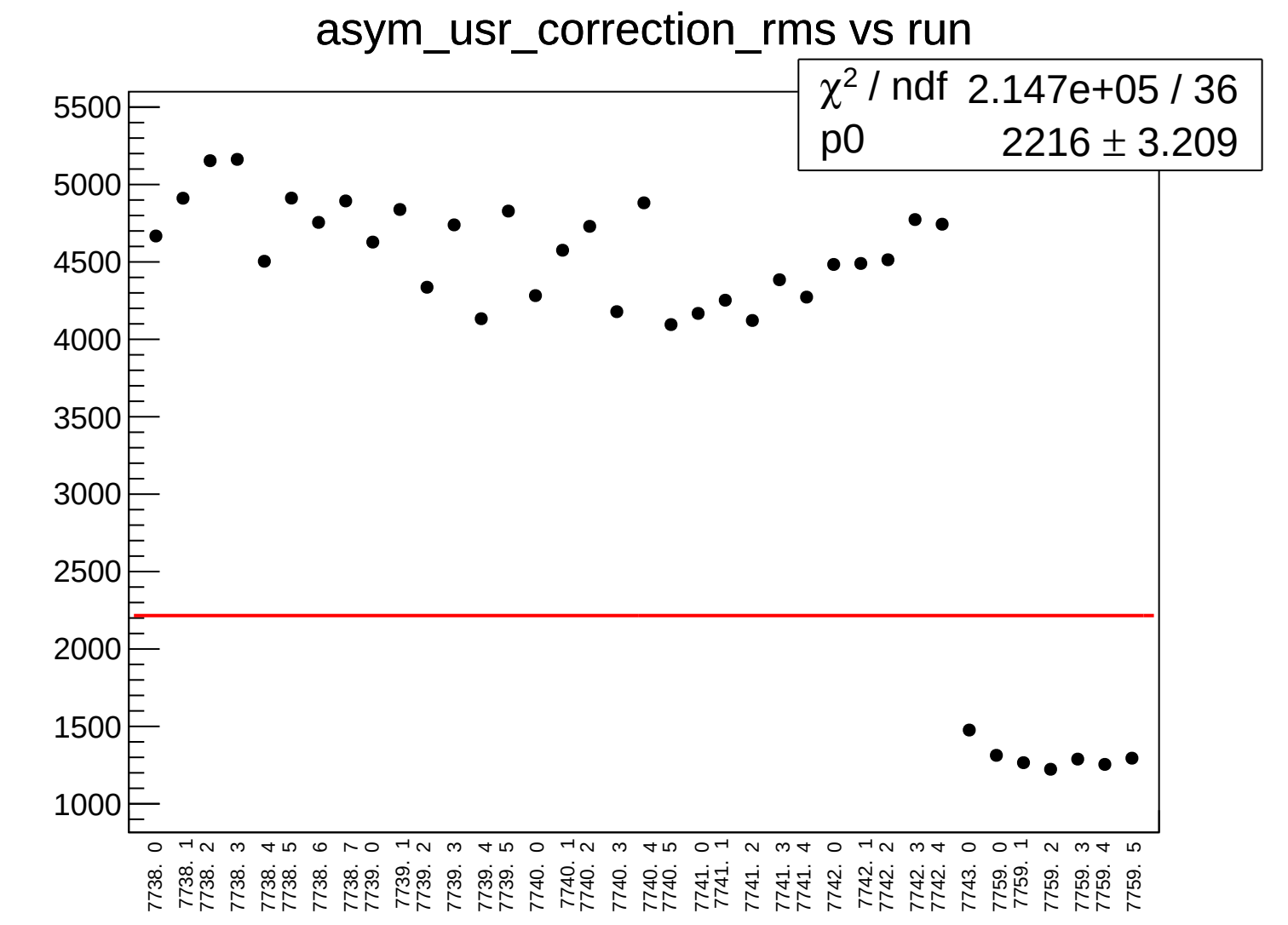

asym_usl_rms vs run
χ² / ndf 1109 / 36
p0 1690 ± 2.034
2000
1900
1800
1700
1600
1500
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

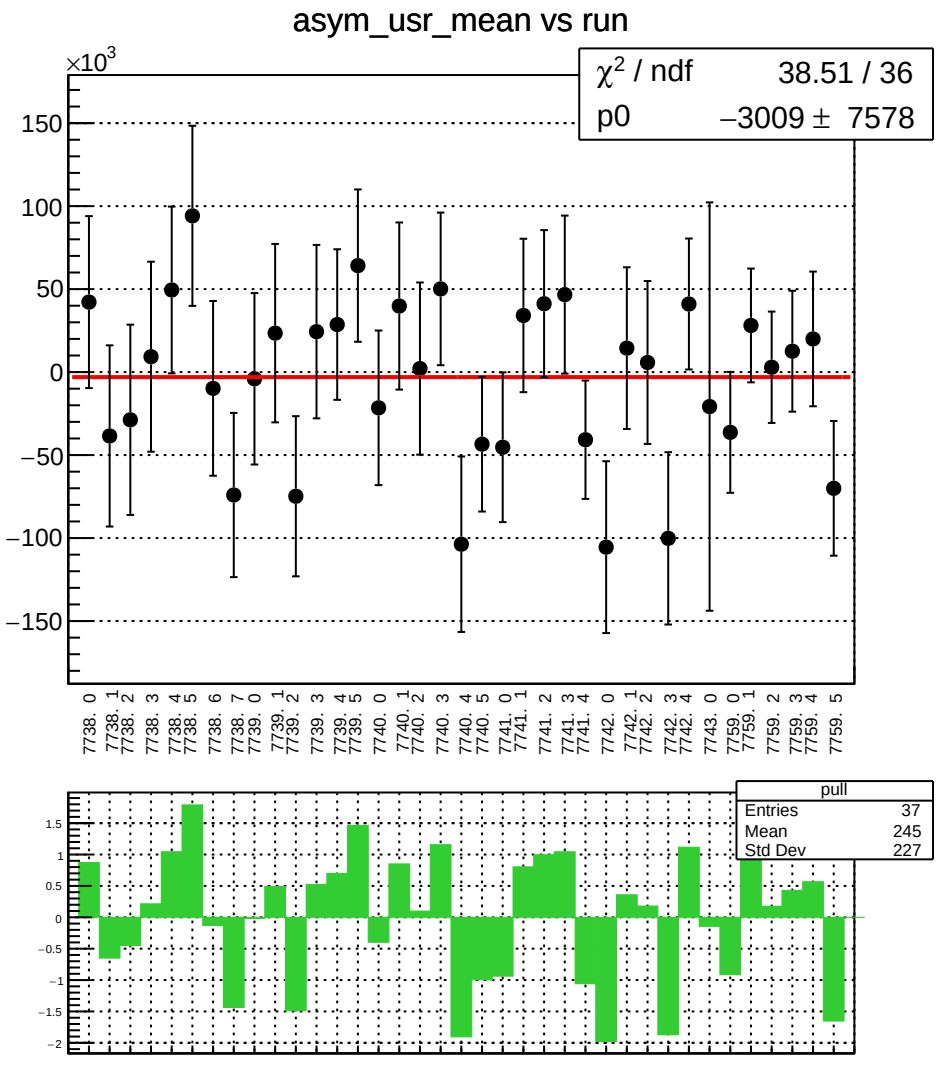

dit_asym_usr_mean vs run
×10^3
χ² / ndf 33.21 / 36
p0 −3375 ± 2039
60
40
20
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 689.4
Std Dev 668.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

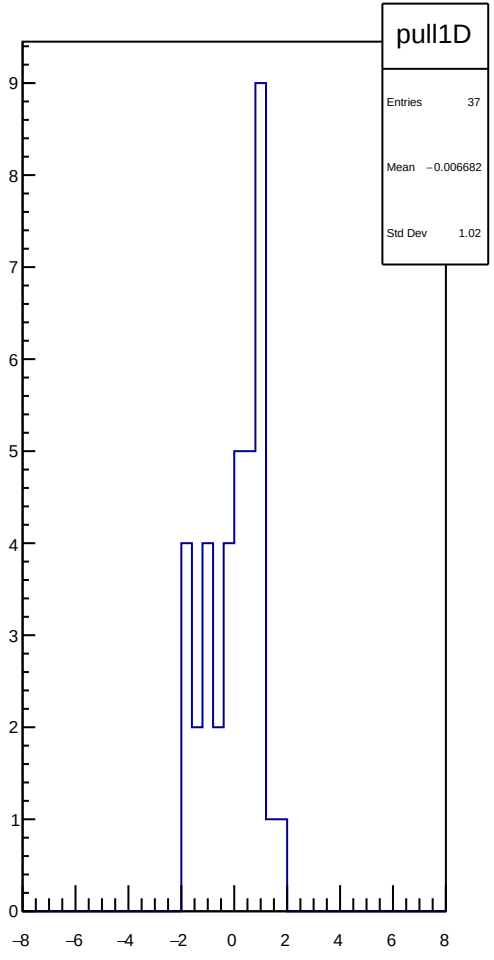

pull1D
Entries 37
Mean −0.002117
Std Dev 0.9474
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

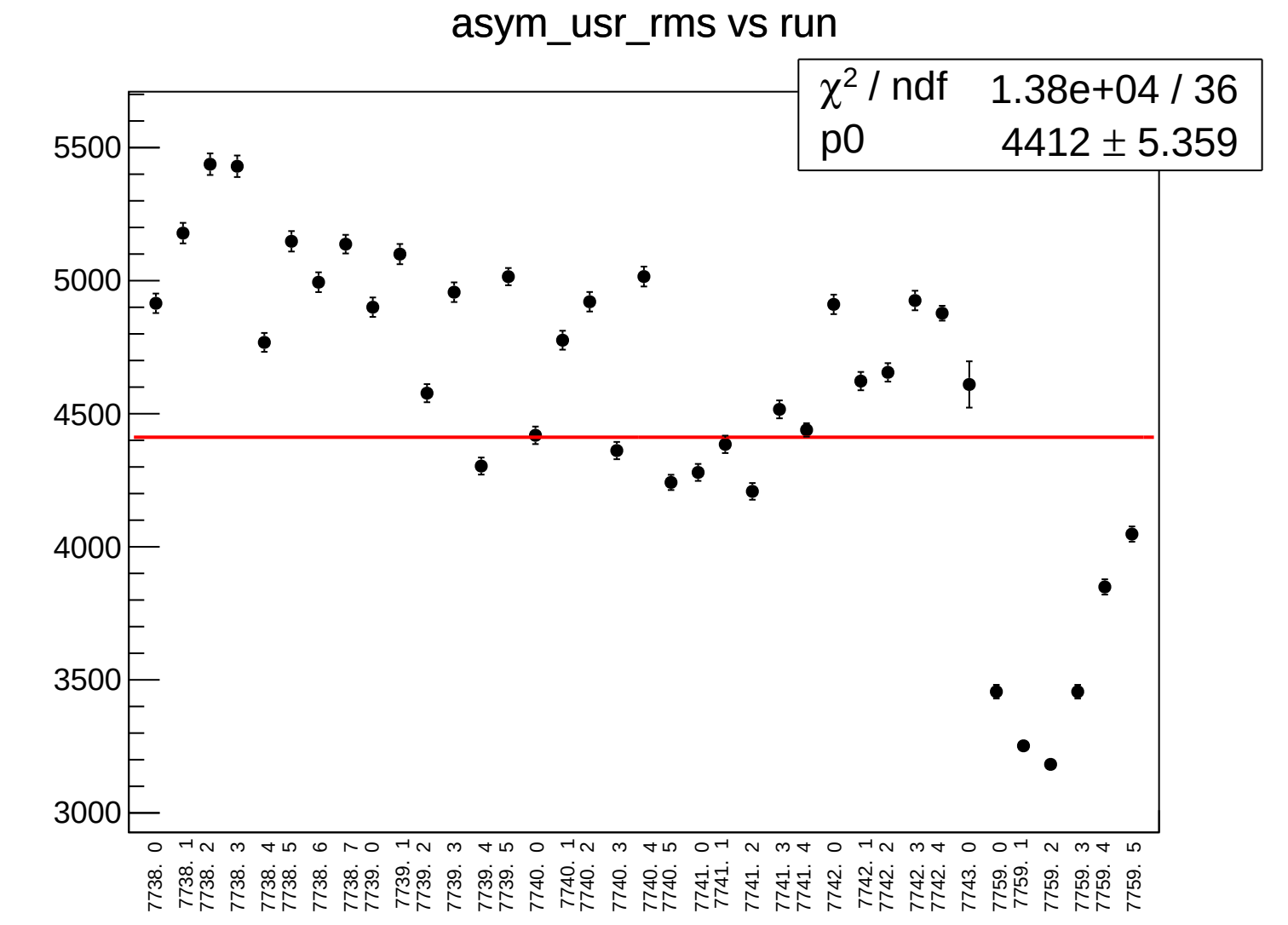

dit_asym_usr_rms vs run
χ² / ndf 3.375e+04 / 36
p0 1170 ± 1.442
3500
3000
2500
2000
1500
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

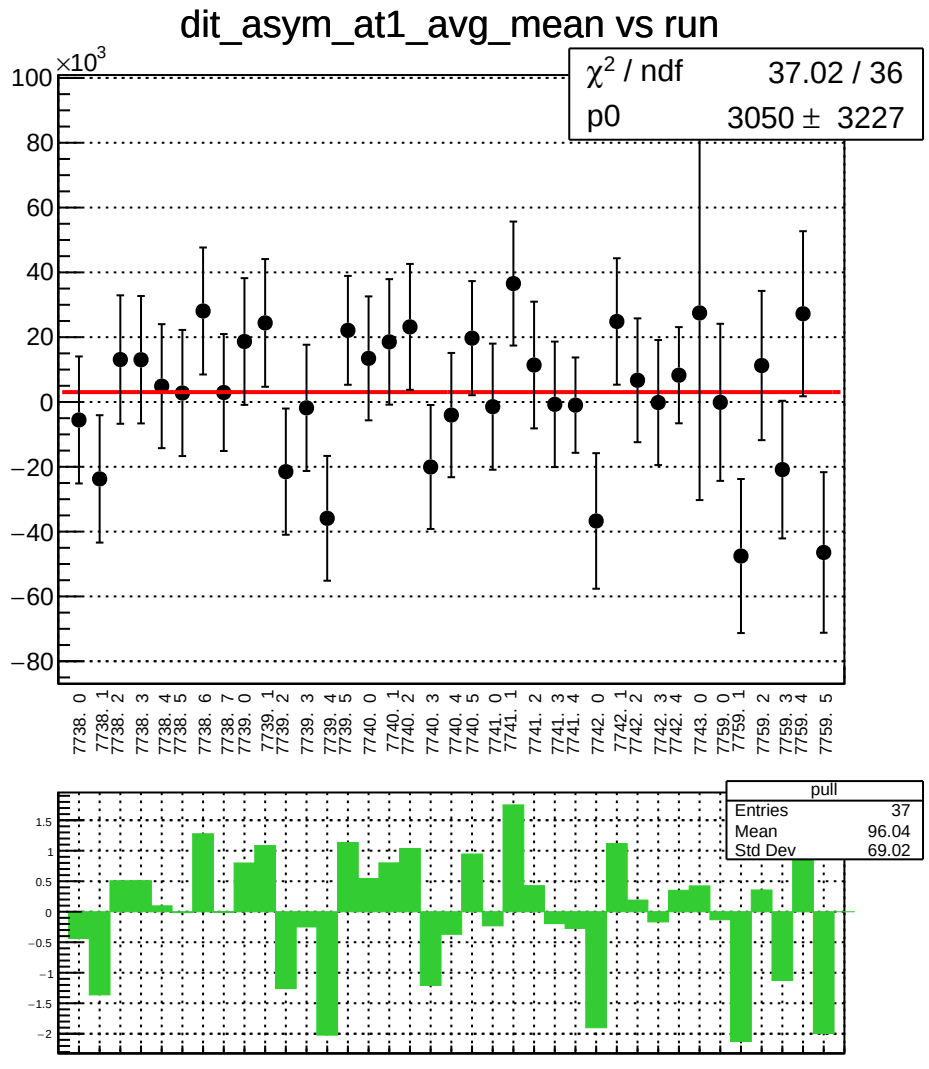

asym_usr_correction_mean vs run
×10^3
χ² / ndf 42.77 / 36
p0 −4.377 ± 4538
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −53.57
Std Dev 69.09
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.01512
Std Dev 1.075
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

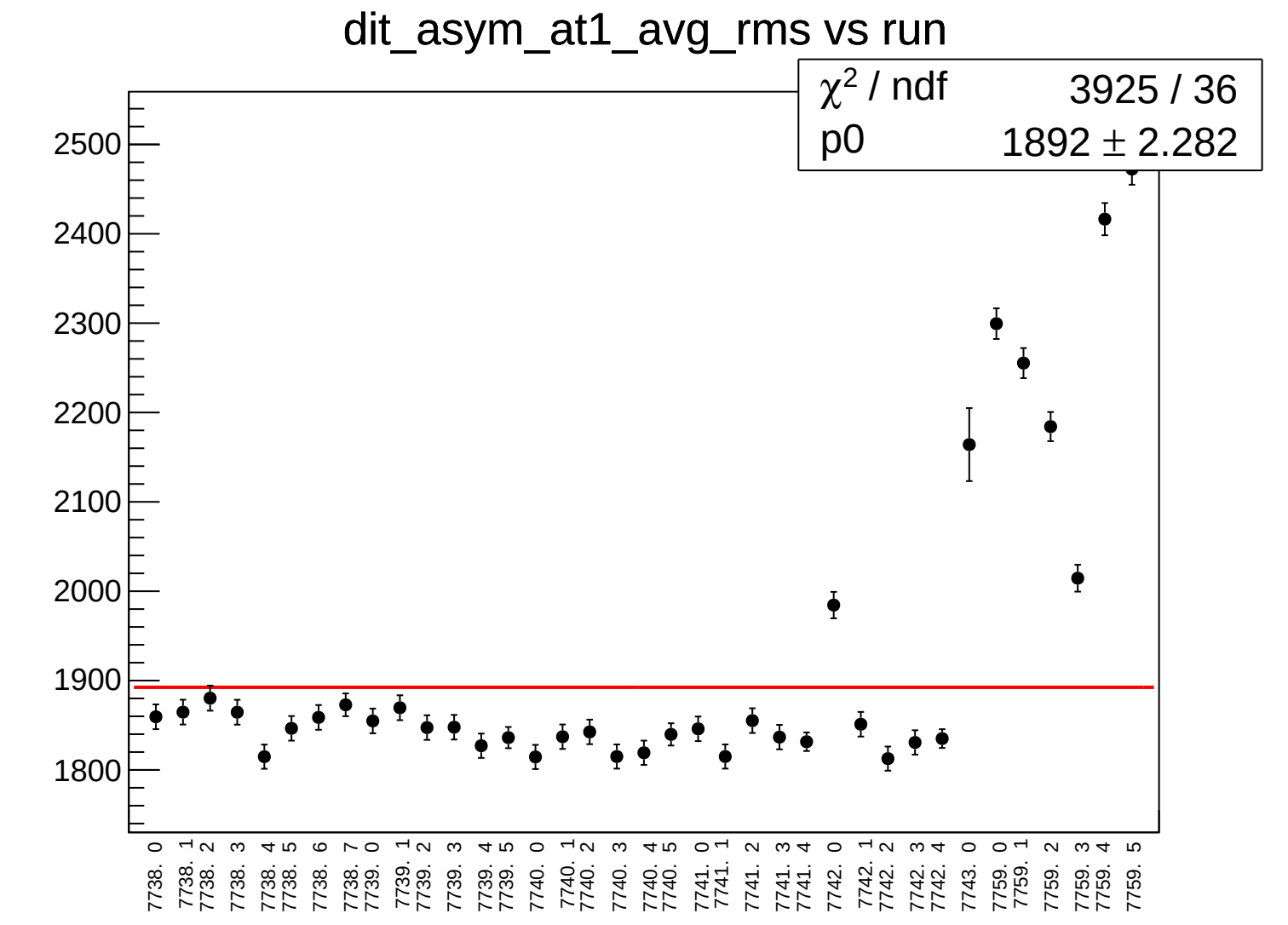

asym_usr_correction_rms vs run
χ² / ndf 2.147e+05 / 36
p0 2216 ± 3.209
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

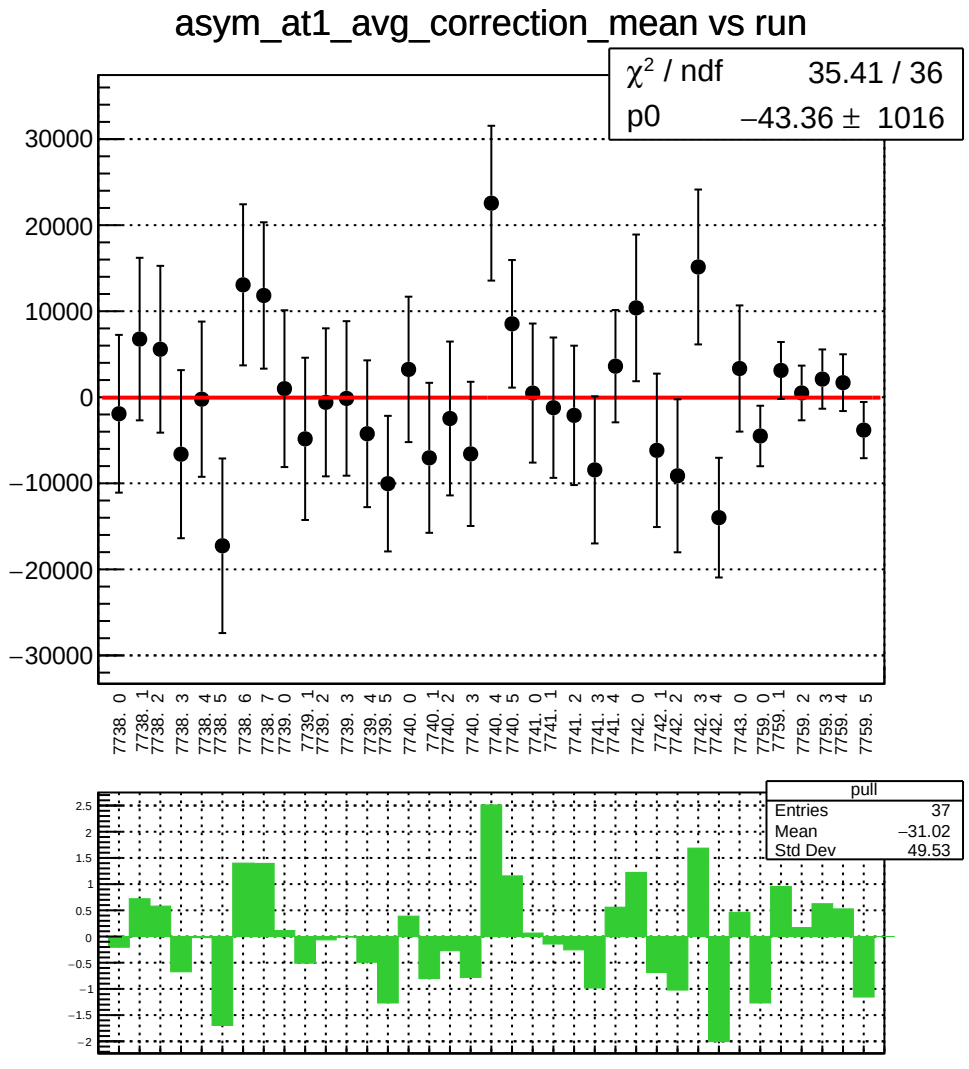

asym_usr_mean vs run
×10^3
χ² / ndf 38.51 / 36
p0 −3009 ± 7578
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 245
Std Dev 227
1.5
1
0.5
0
−0.5
−1
−1.5
−2

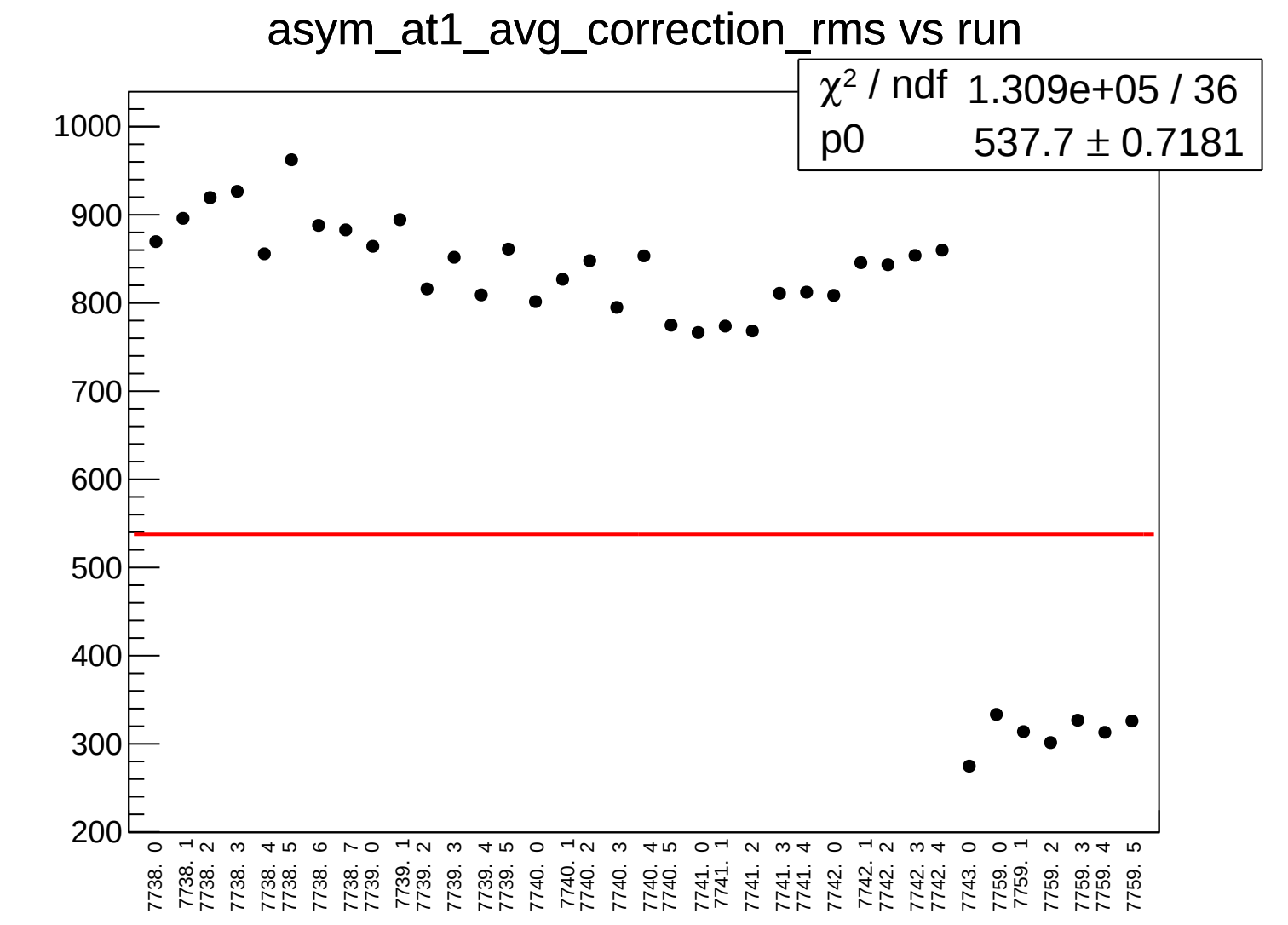

pull1D
Entries 37
Mean −0.006682
Std Dev 1.02
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

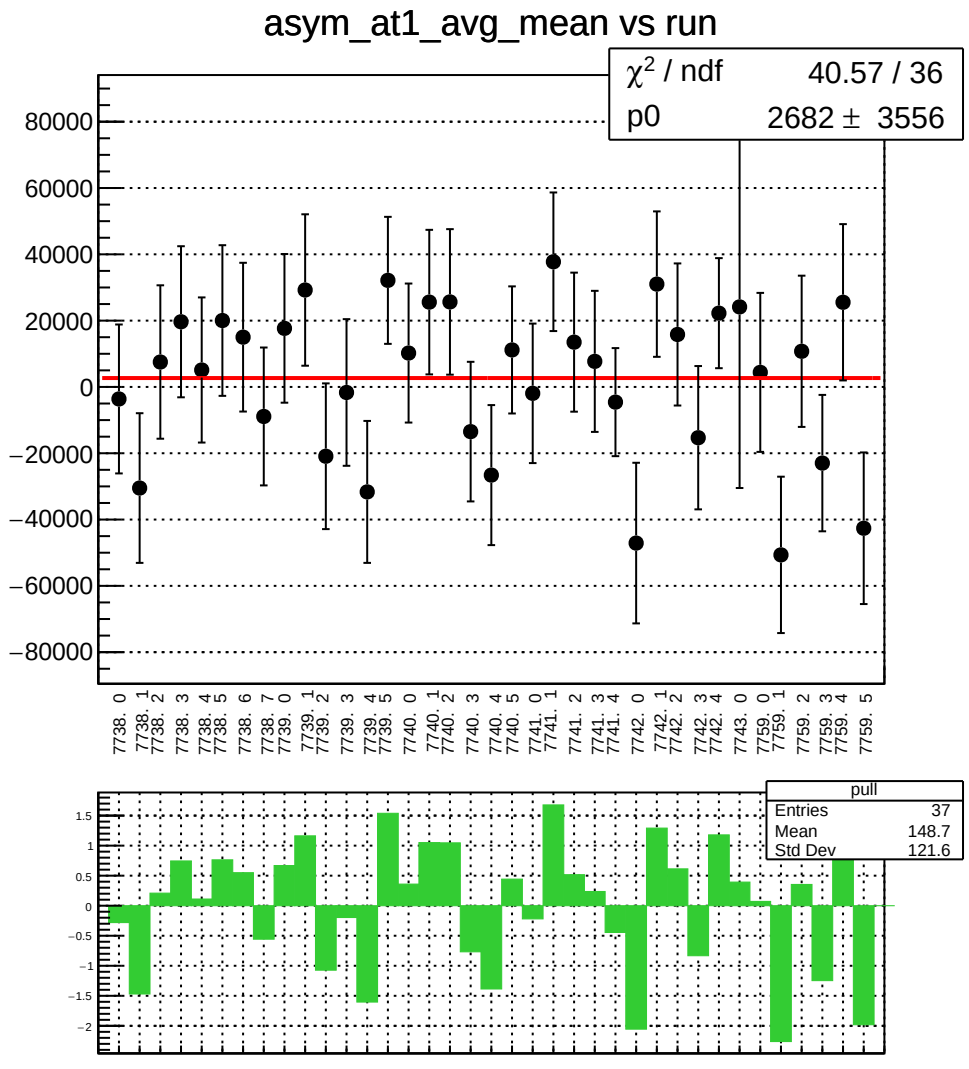

asym_usr_rms vs run
χ² / ndf 1.38e+04 / 36
p0 4412 ± 5.359
5500
5000
4500
4000
3500
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

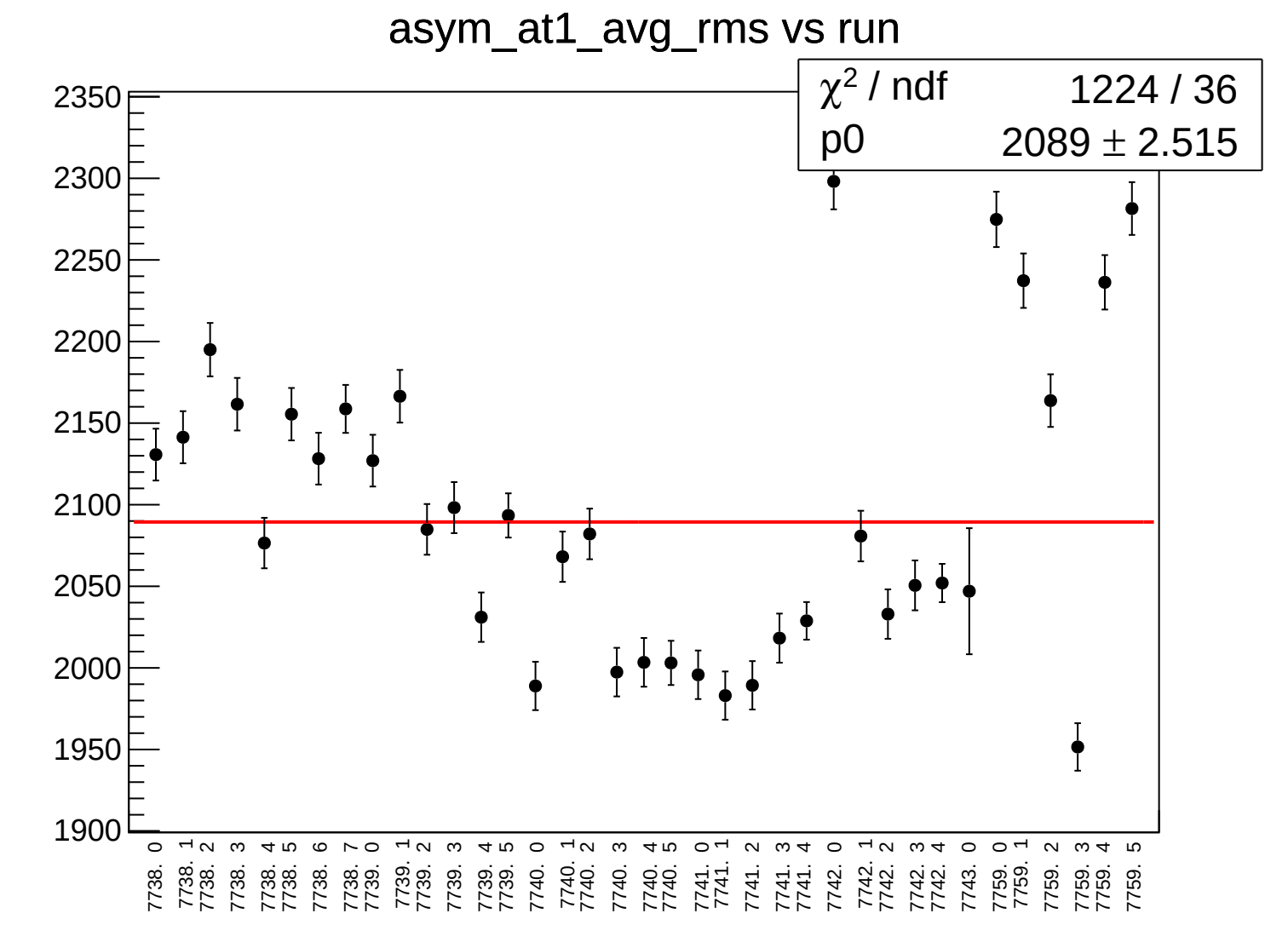

dit_asym_at1_avg_mean vs run
×10^3
χ² / ndf 37.02 / 36
p0 3050 ± 3227
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 96.04
Std Dev 69.02
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02109
Std Dev 1
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

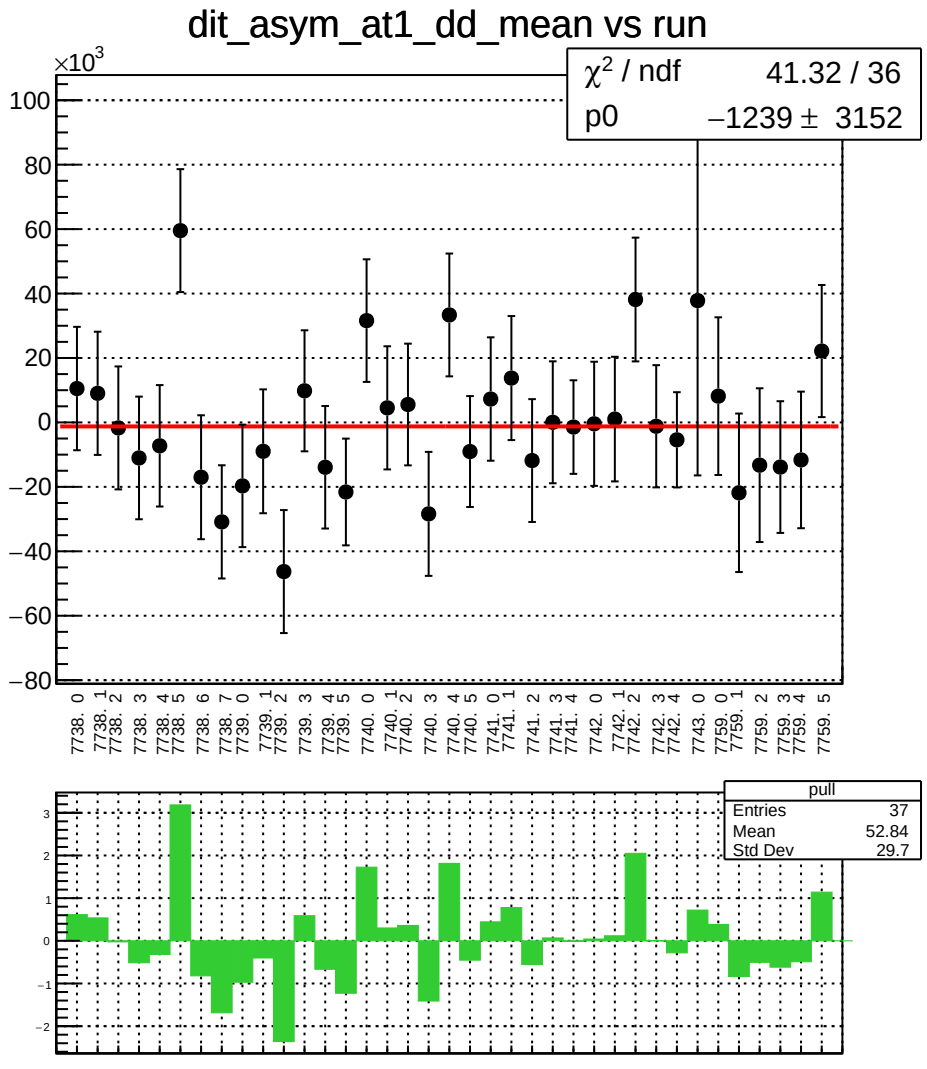

dit_asym_at1_avg_rms vs run
χ² / ndf 3925 / 36
p0 1892 ± 2.282
2500
2400
2300
2200
2100
2000
1900
1800
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

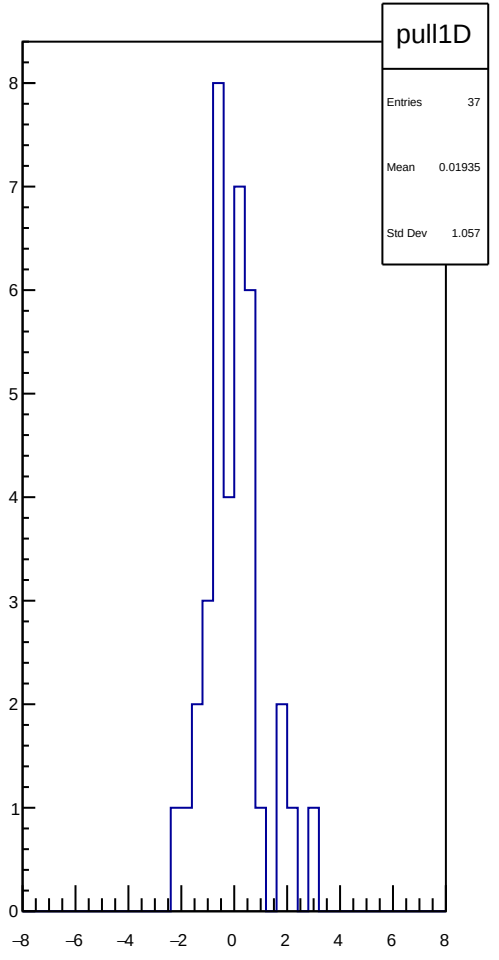

asym_at1_avg_correction_mean vs run
χ² / ndf 35.41 / 36
p0 −43.36 ± 1016
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −31.02
Std Dev 49.53
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.006517
Std Dev 0.9782
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

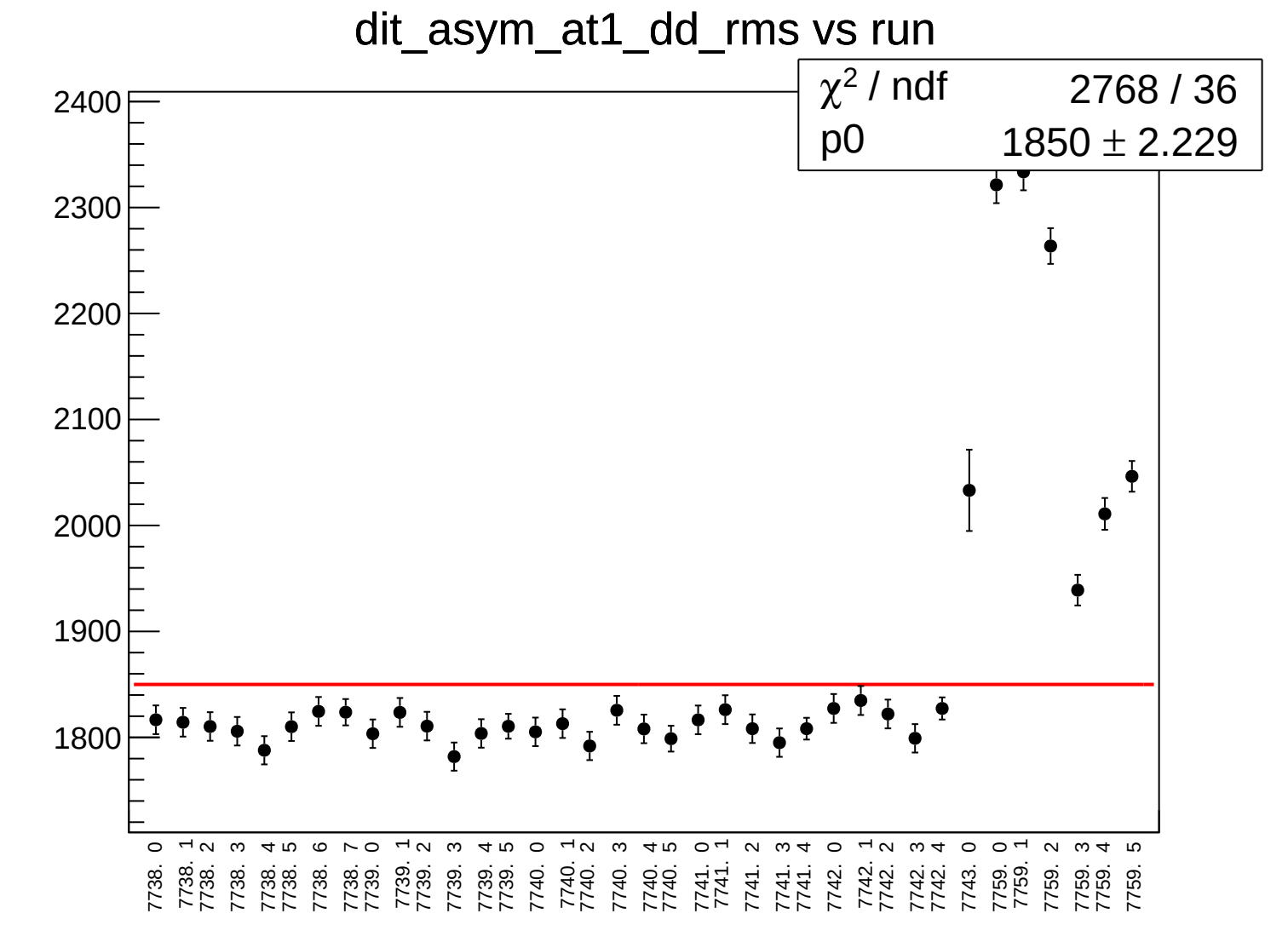

asym_at1_avg_correction_rms vs run
χ² / ndf 1.309e+05 / 36
p0 537.7 ± 0.7181
1000
900
800
700
600
500
400
300
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

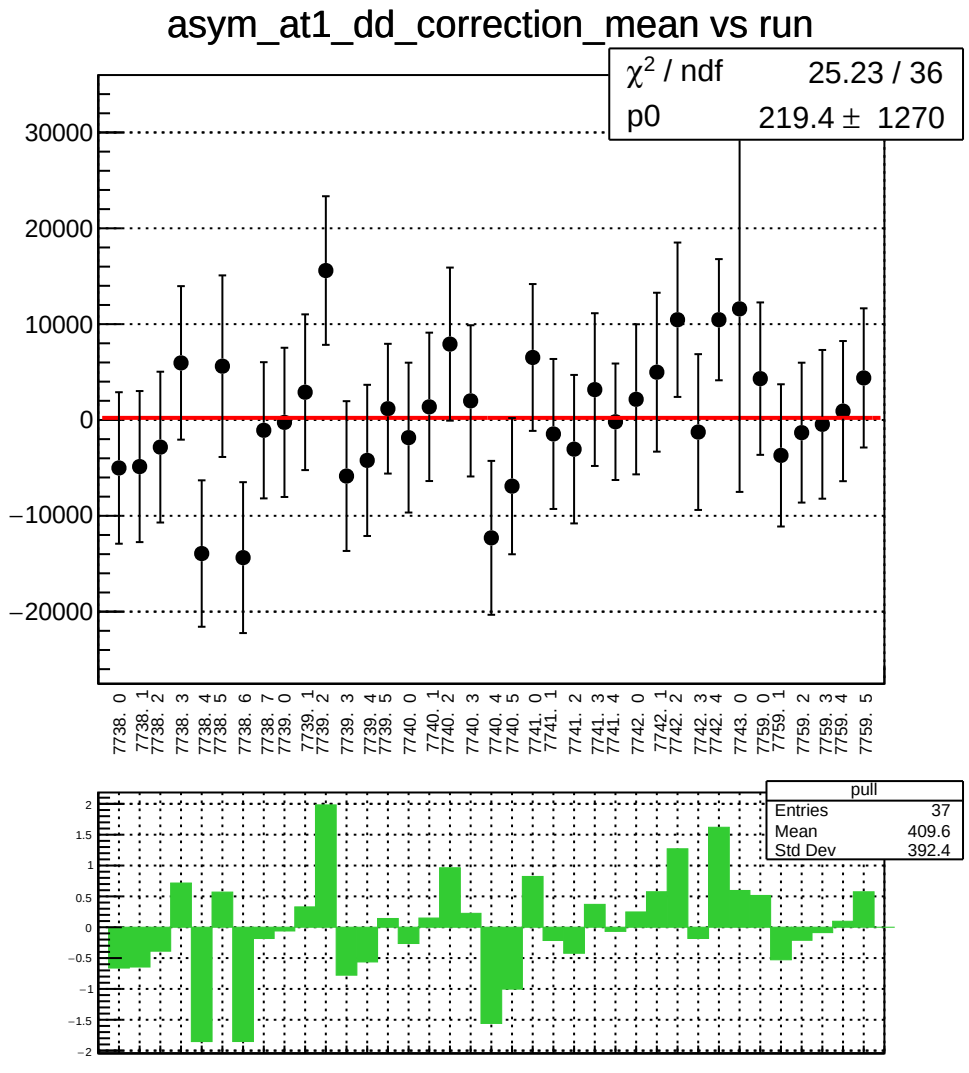

asym_at1_avg_mean vs run
χ² / ndf 40.57 / 36
p0 2682 ± 3556
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 148.7
Std Dev 121.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01157
Std Dev 1.047
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

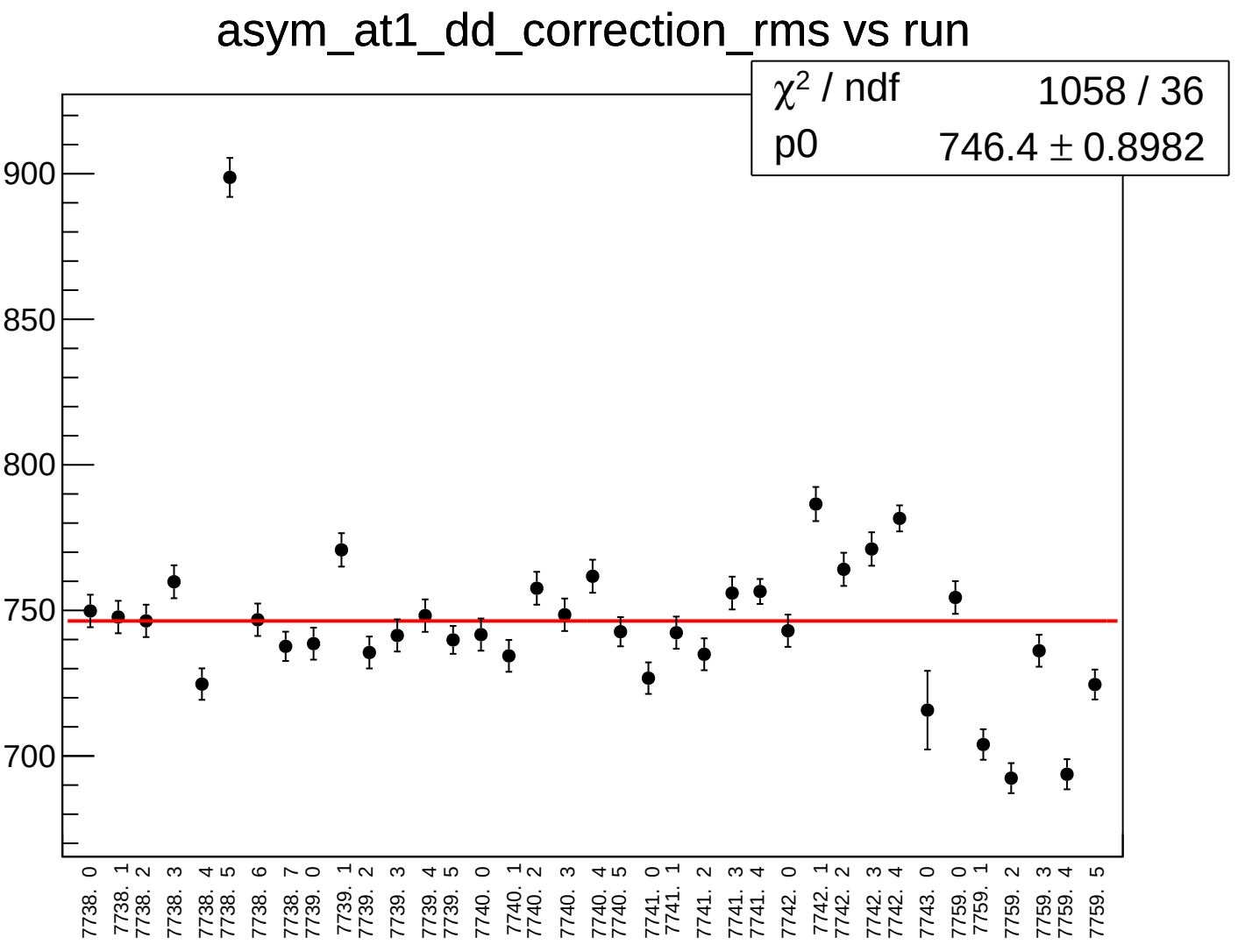

asym_at1_avg_rms vs run
χ² / ndf 1224 / 36
p0 2089 ± 2.515
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

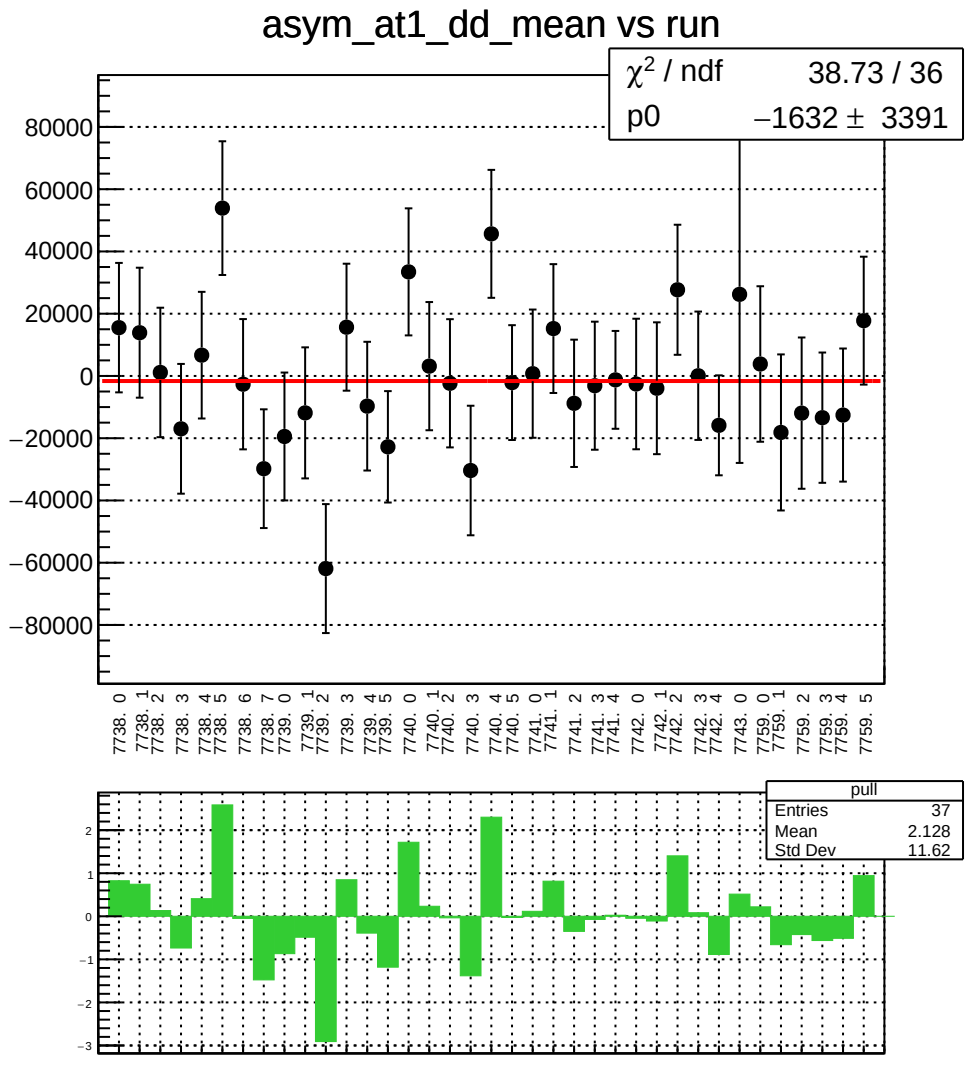

dit_asym_at1_dd_mean vs run
×10^3
χ² / ndf 41.32 / 36
p0 −1239 ± 3152
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 52.84
Std Dev 29.7
3
2
1
0
−1
−2

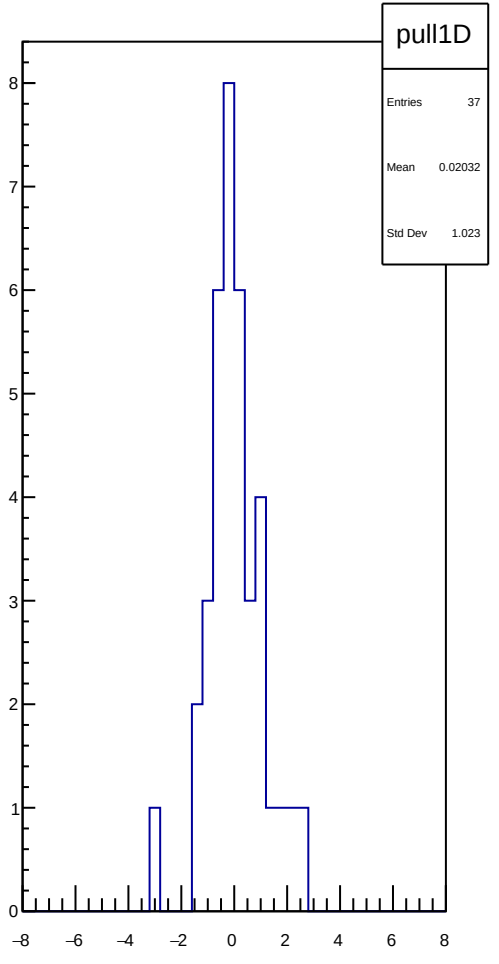

pull1D
Entries 37
Mean 0.01935
Std Dev 1.057
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

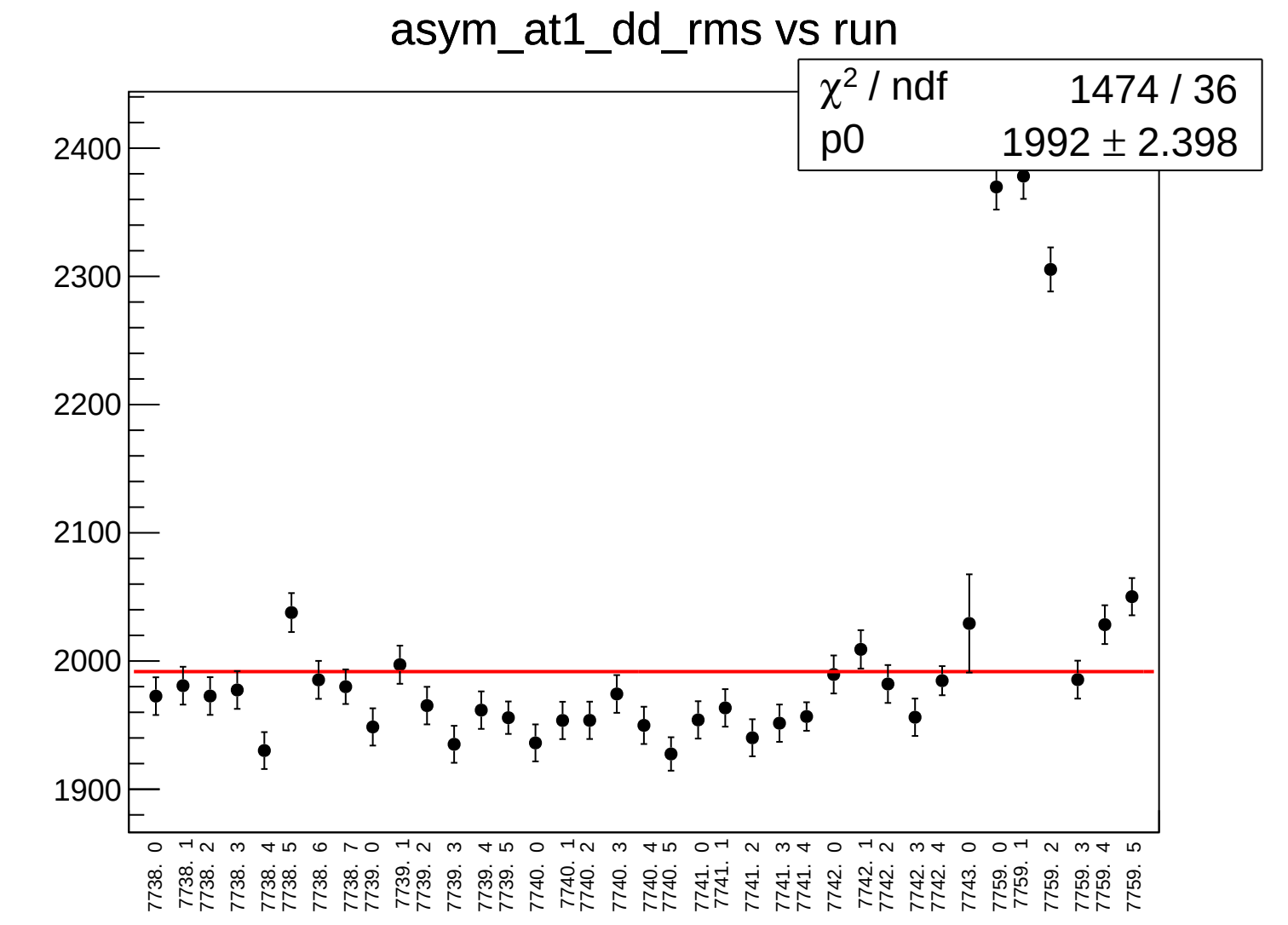

dit_asym_at1_dd_rms vs run
χ² / ndf 2768 / 36
p0 1850 ± 2.229
2400
2300
2200
2100
2000
1900
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

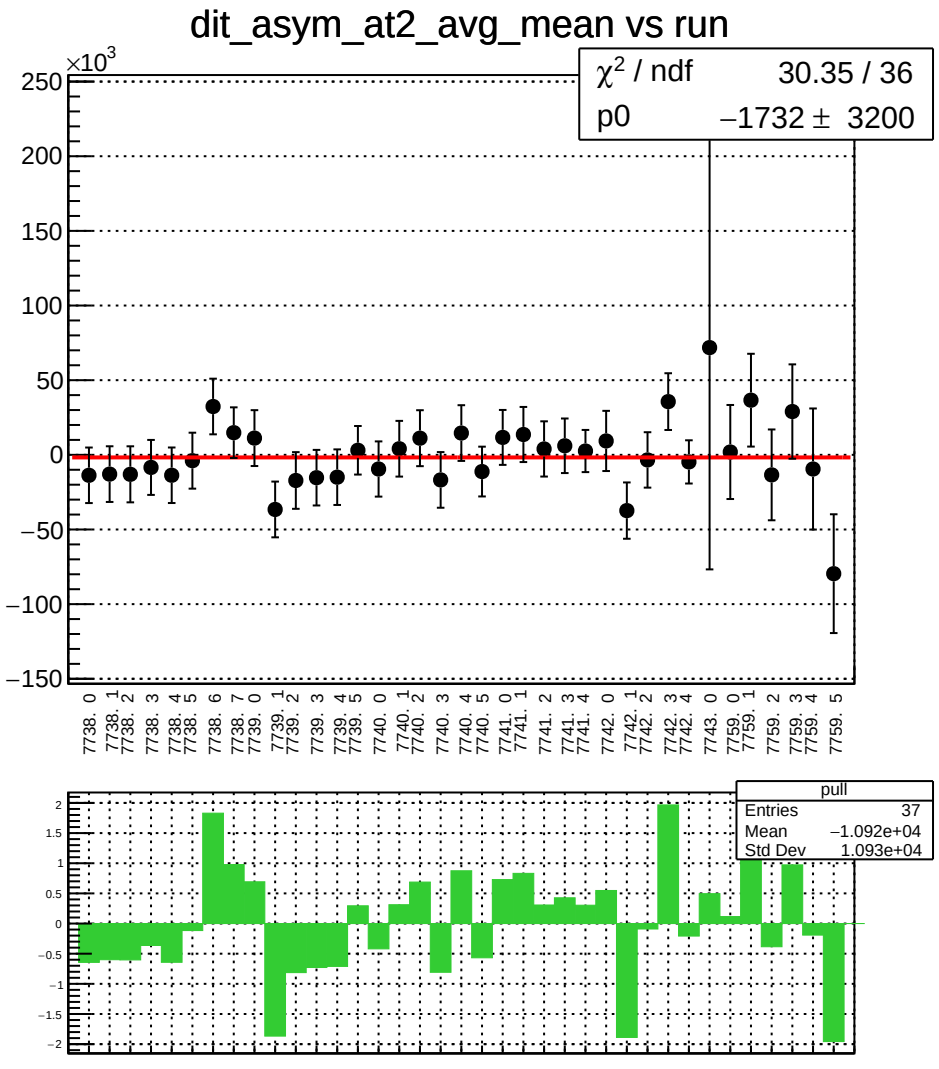

asym_at1_dd_correction_mean vs run
χ² / ndf 25.23 / 36
p0 219.4 ± 1270
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 409.6
Std Dev 392.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.006693
Std Dev 0.8257
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

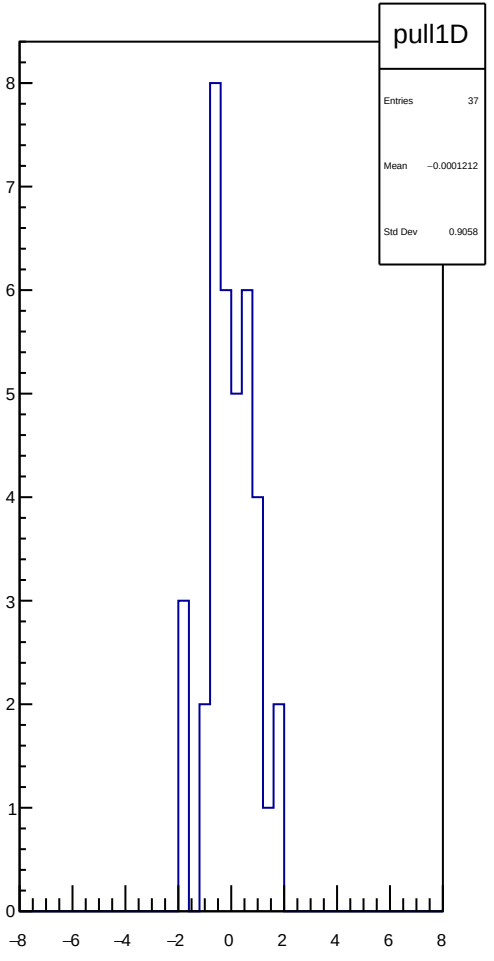

asym_at1_dd_correction_rms vs run
χ² / ndf 1058 / 36
p0 746.4 ± 0.8982
900
850
800
750
700
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

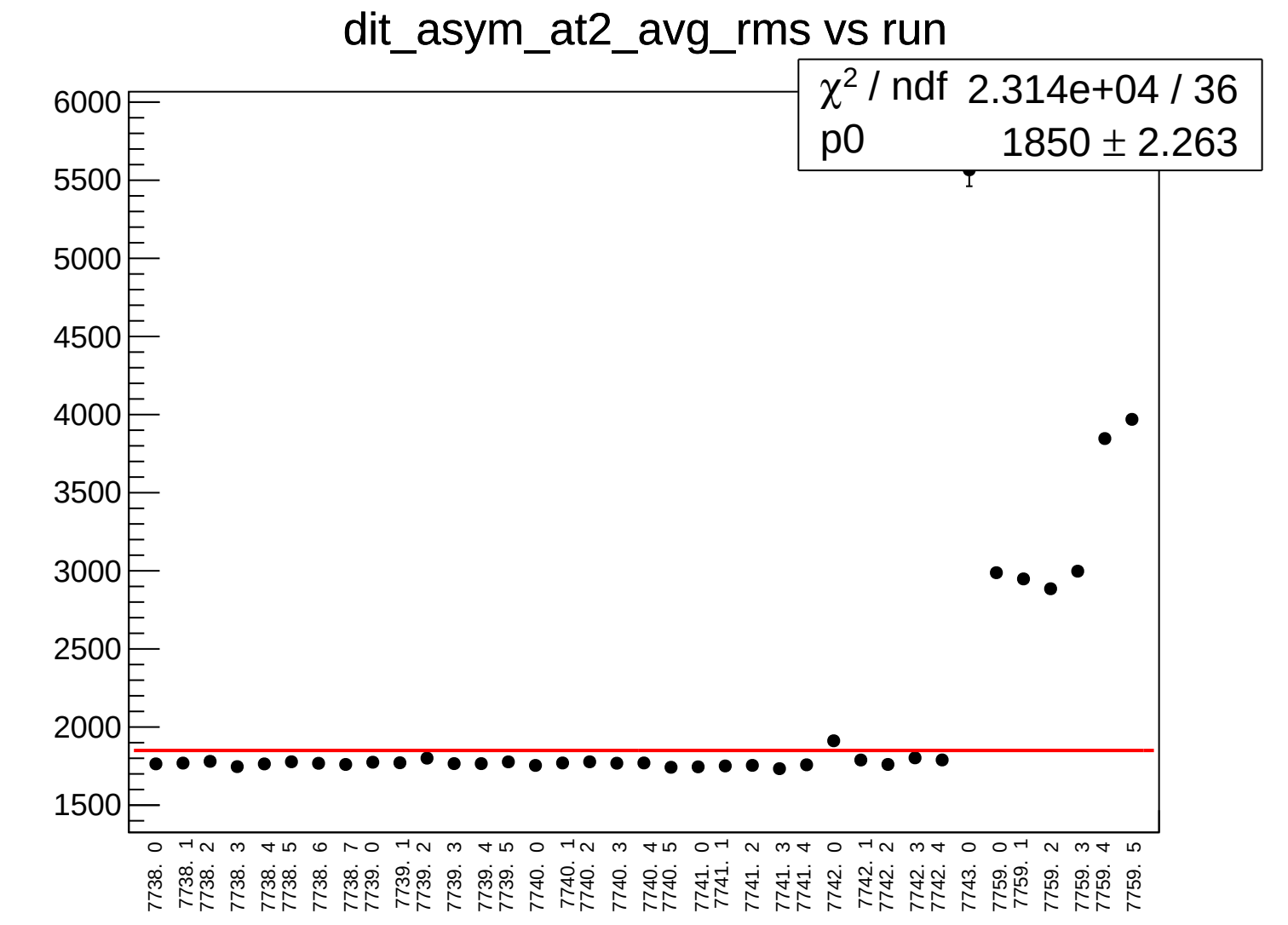

asym_at1_dd_mean vs run
χ² / ndf 38.73 / 36
p0 −1632 ± 3391
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.128
Std Dev 11.62
2
1
0
−1
−2
−3

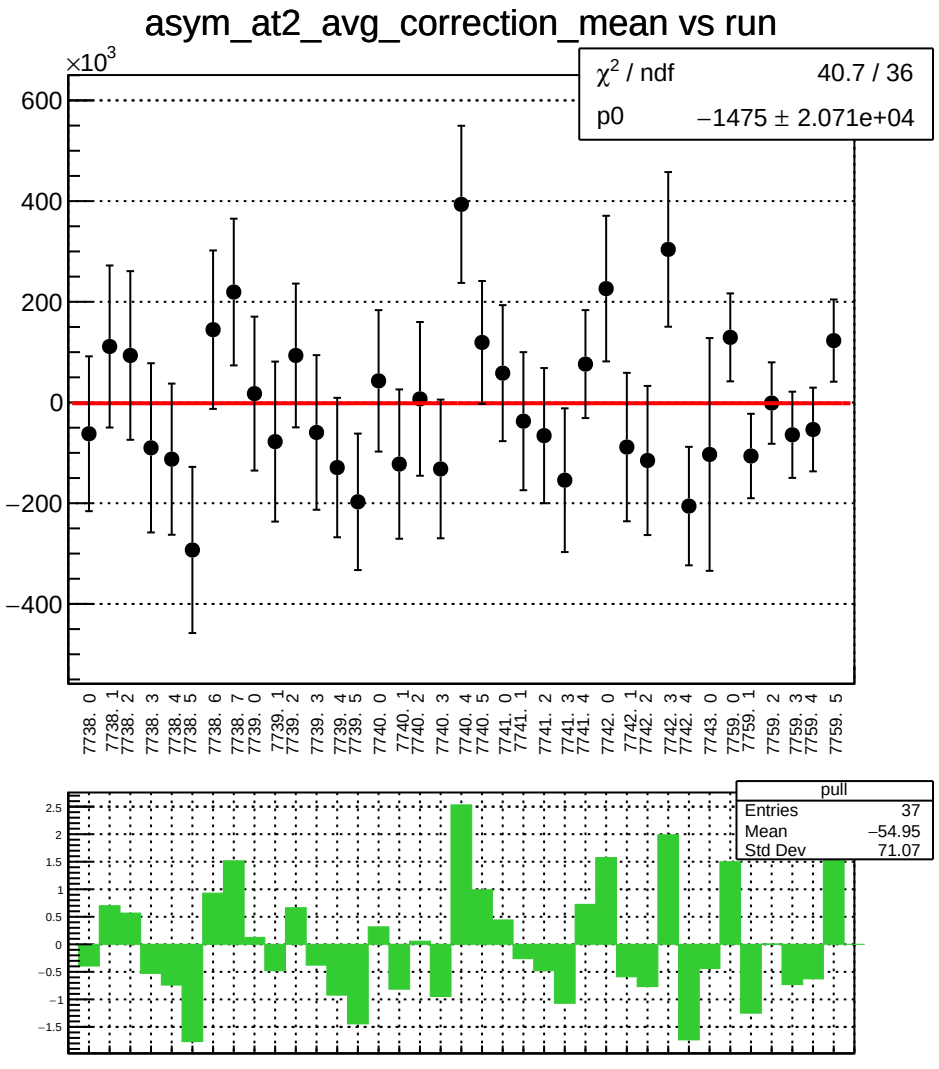

pull1D
Entries 37
Mean 0.02032
Std Dev 1.023
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

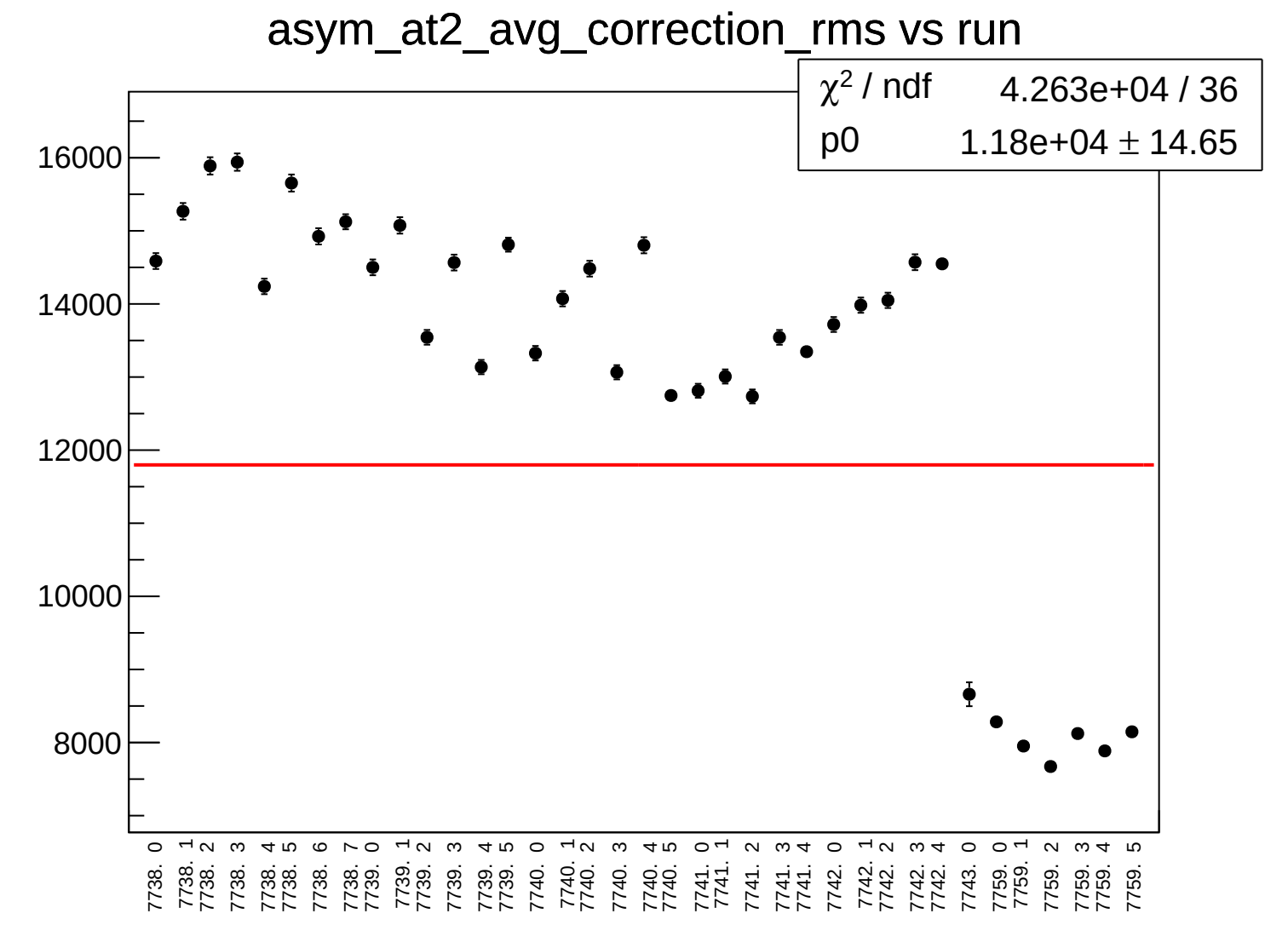

asym_at1_dd_rms vs run
χ² / ndf 1474 / 36
p0 1992 ± 2.398
2400
2300
2200
2100
2000
1900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

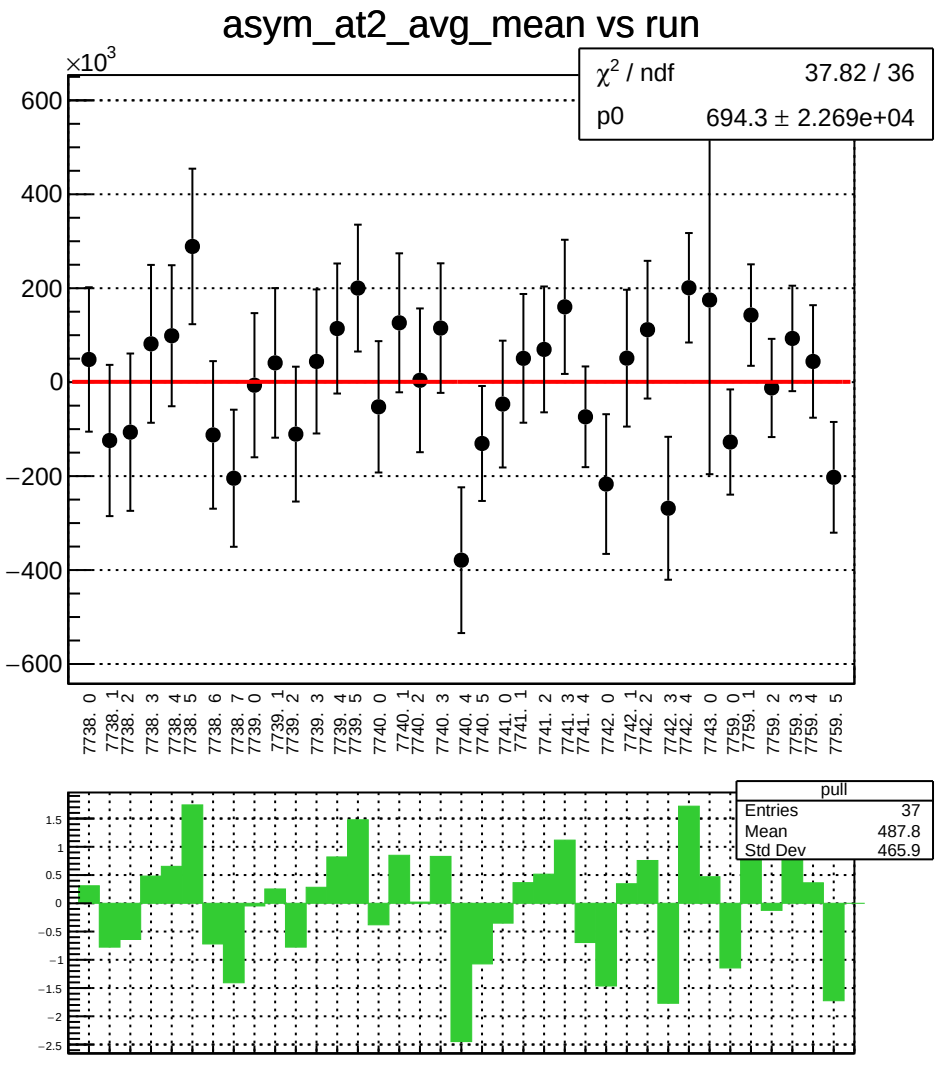

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 30.35 / 36
p0 −1732 ± 3200
250
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1.092e+04
Std Dev 1.093e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

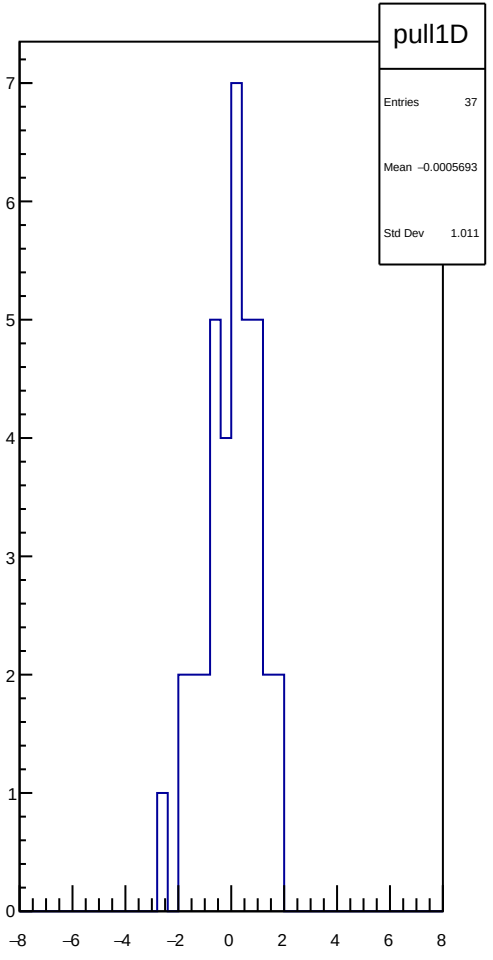

pull1D
Entries 37
Mean −0.0001212
Std Dev 0.9058
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

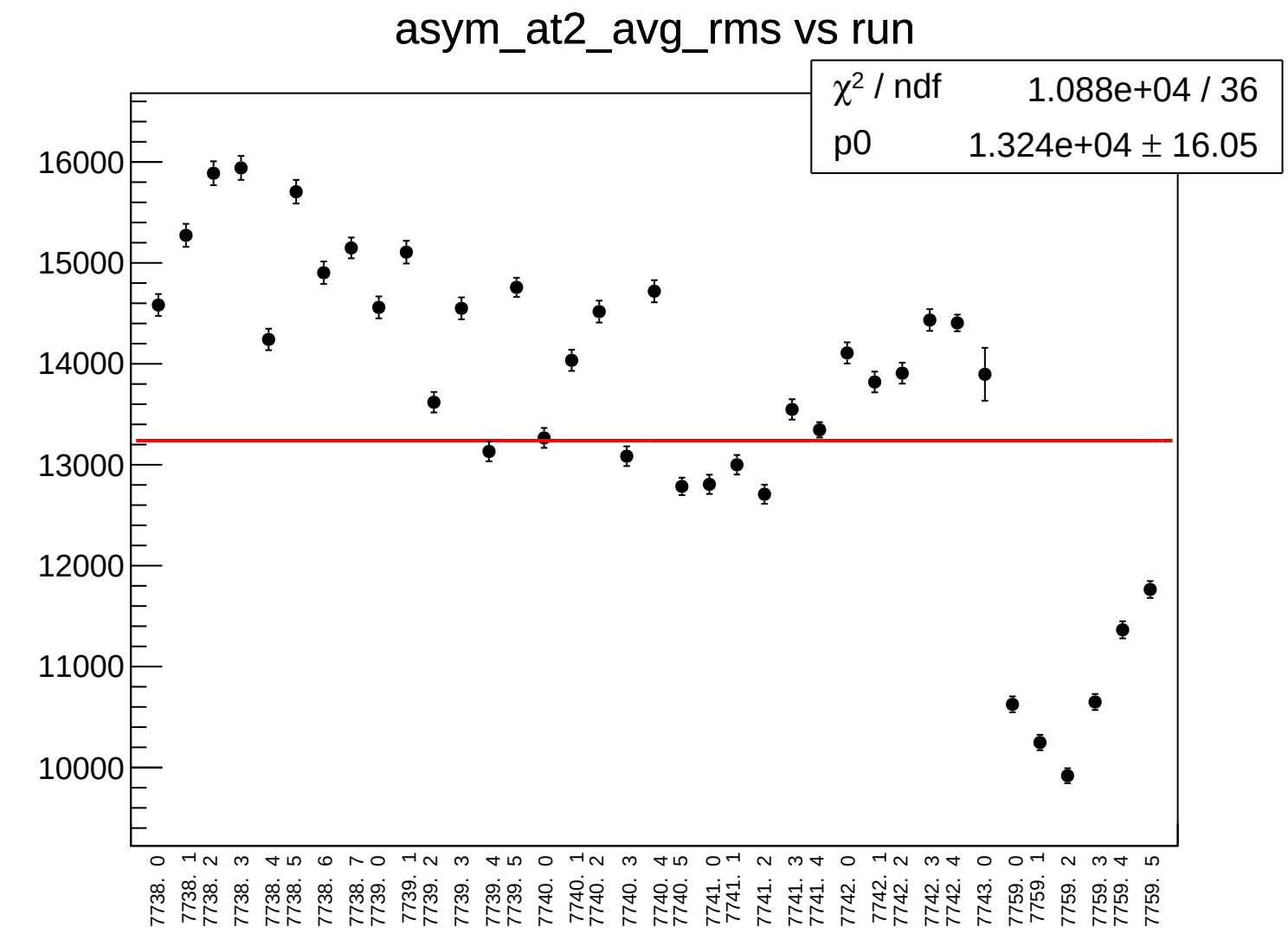

dit_asym_at2_avg_rms vs run
χ² / ndf 2.314e+04 / 36
p0 1850 ± 2.263
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

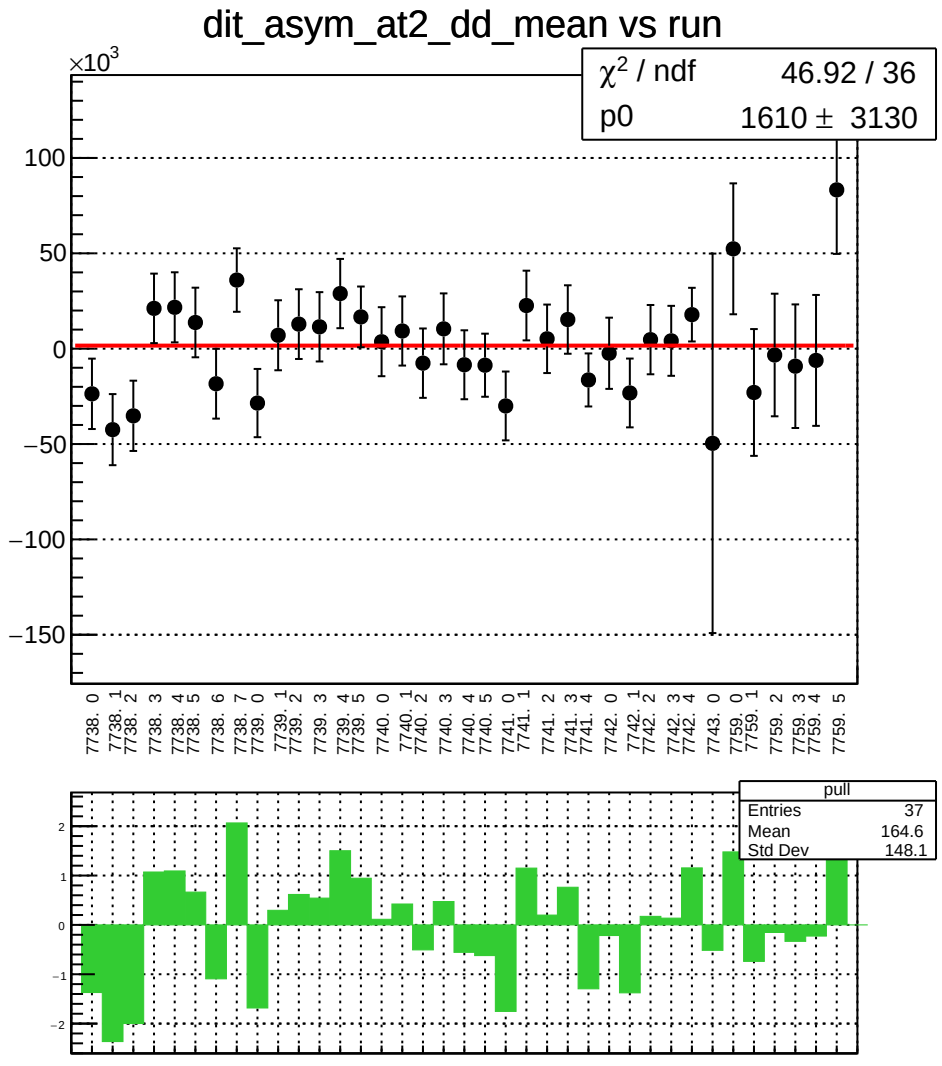

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 40.7 / 36
p0 −1475 ± 2.071e+04
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −54.95
Std Dev 71.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.00548
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

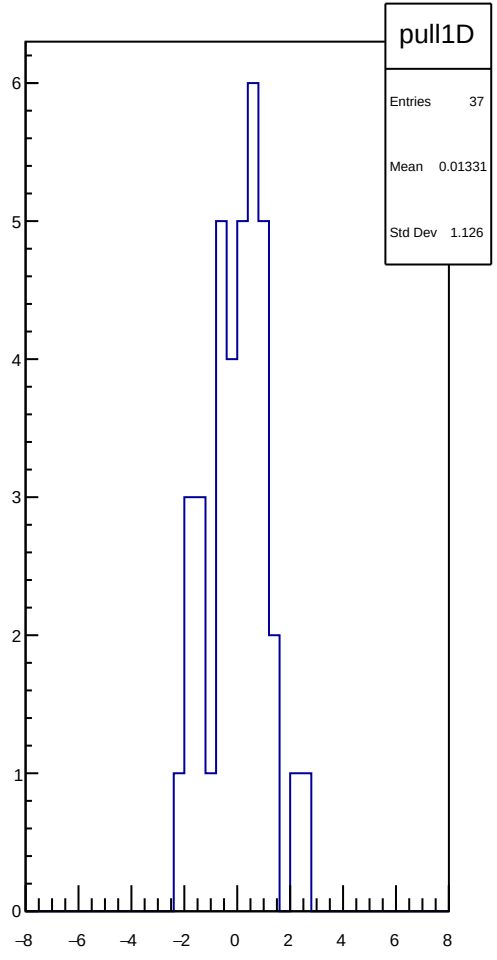

asym_at2_avg_correction_rms vs run
χ² / ndf 4.263e+04 / 36
p0 1.18e+04 ± 14.65
16000
14000
12000
10000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

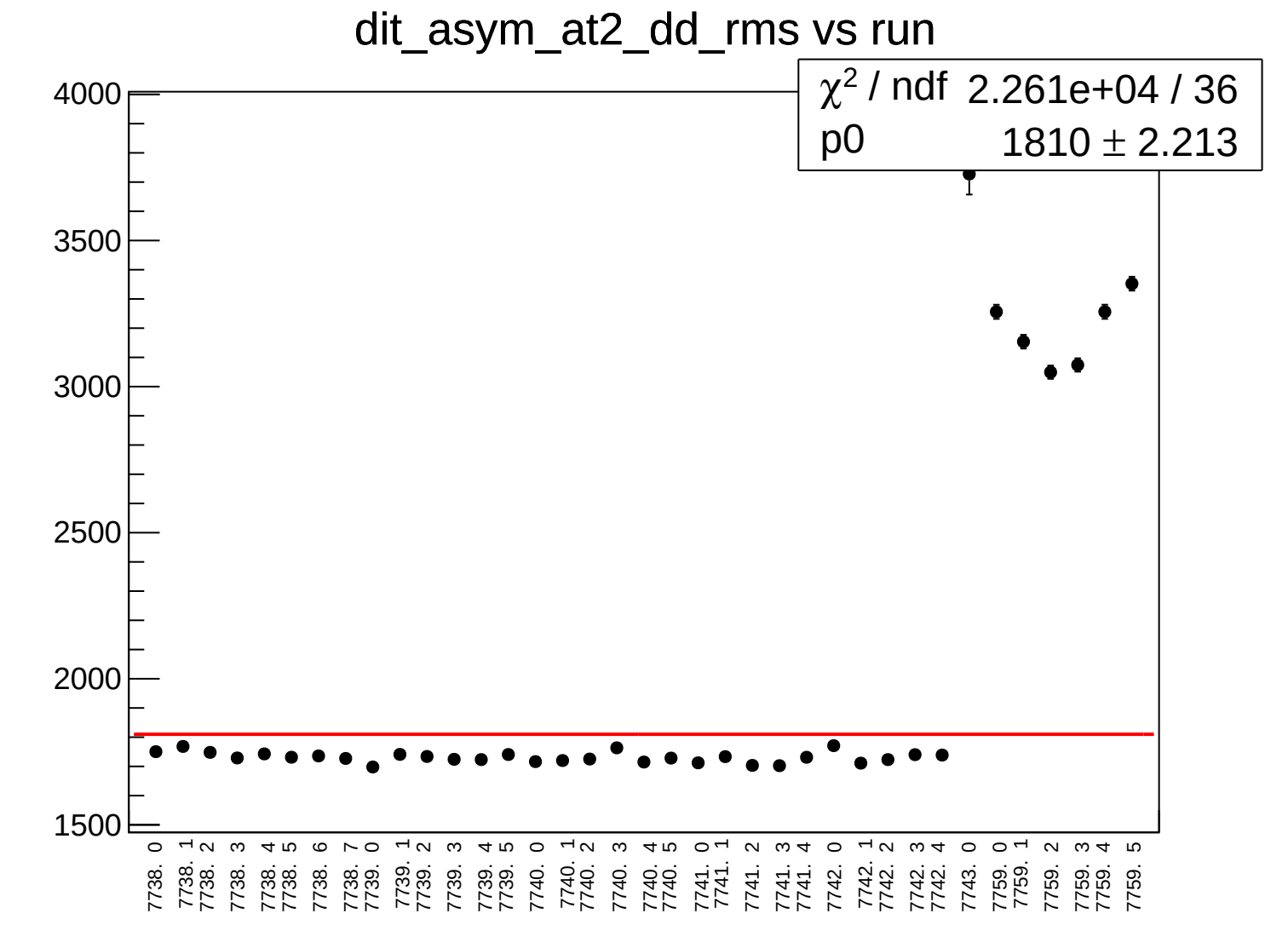

asym_at2_avg_mean vs run
×10^3
χ² / ndf 37.82 / 36
p0 694.3 ± 2.269e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 487.8
Std Dev 465.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

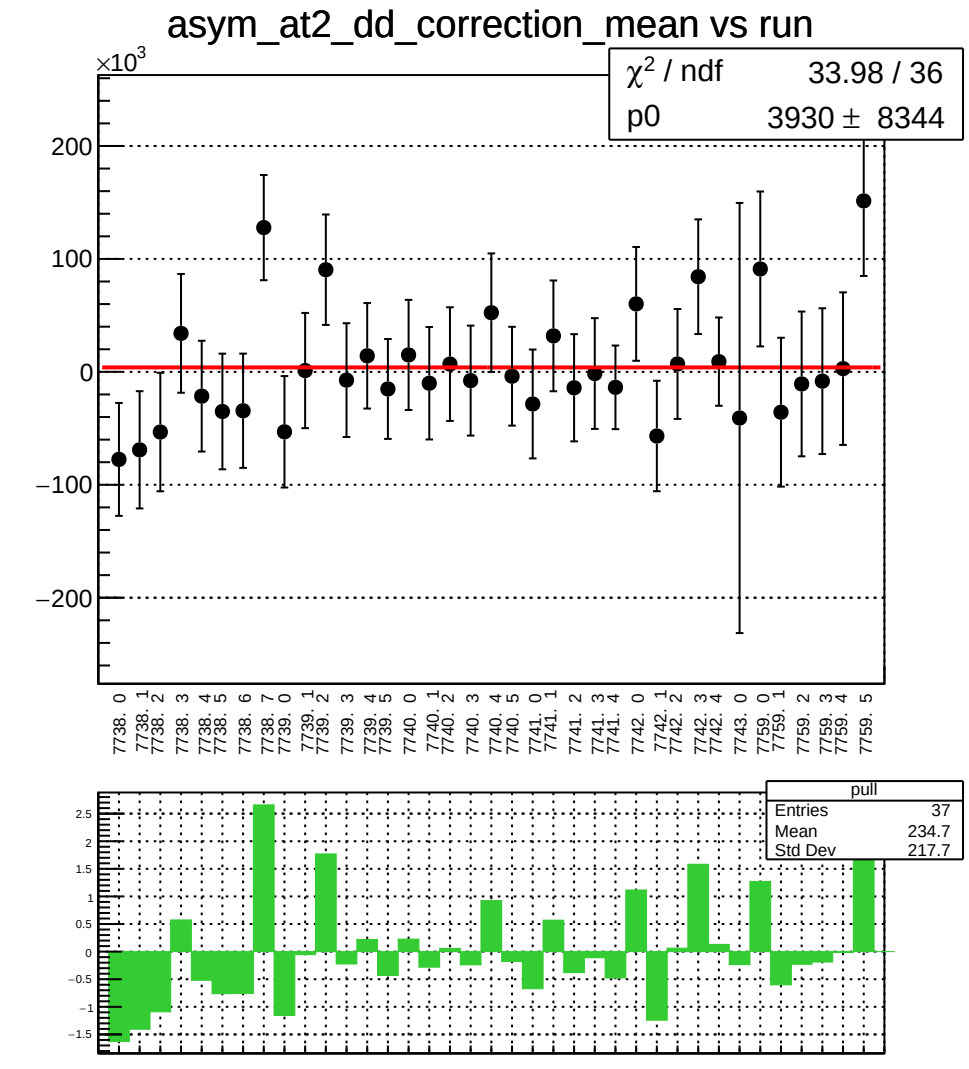

pull1D
Entries 37
Mean −0.0005693
Std Dev 1.011
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

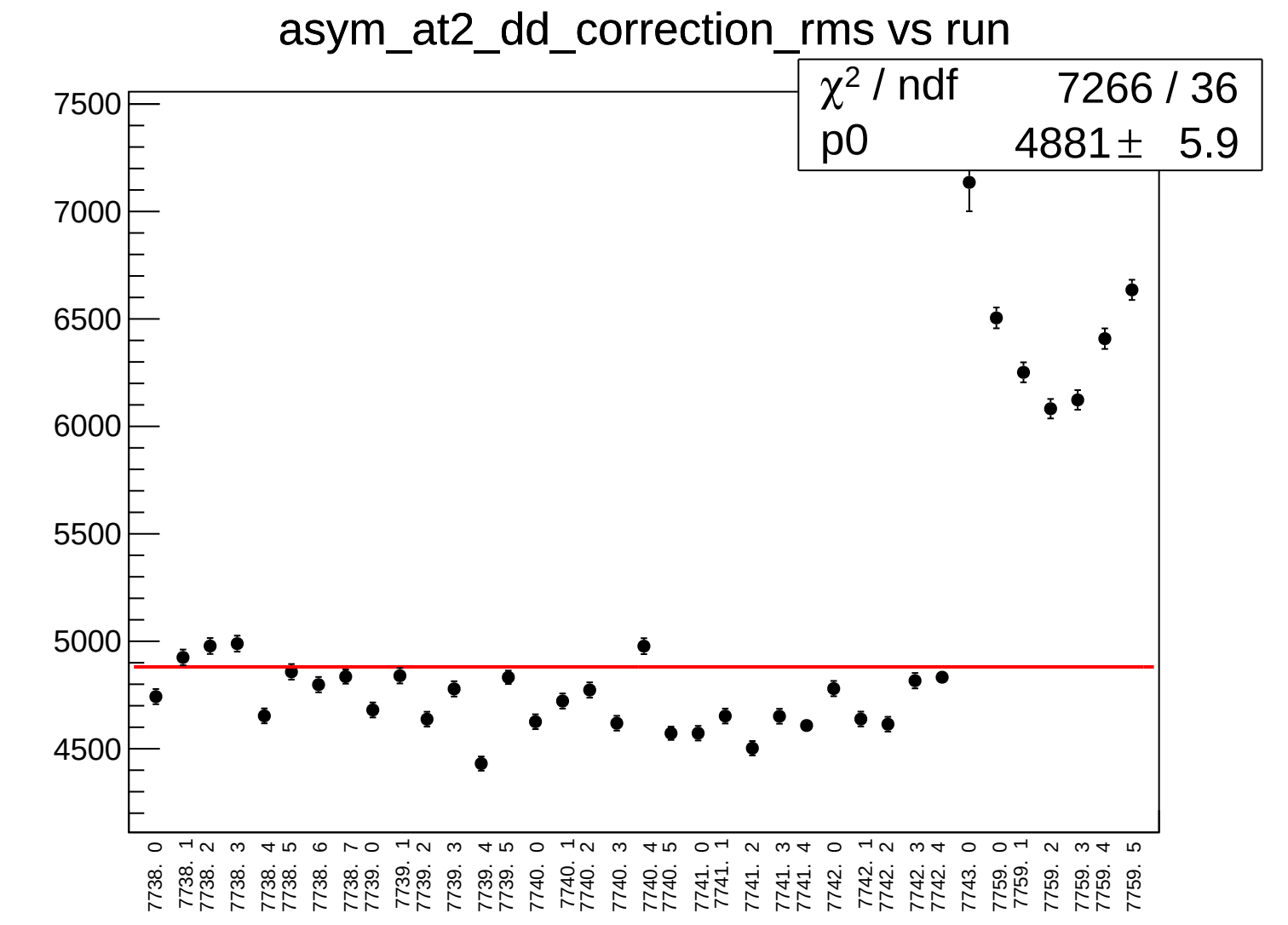

asym_at2_avg_rms vs run
χ² / ndf 1.088e+04 / 36
p0 1.324e+04 ± 16.05
16000
15000
14000
13000
12000
11000
10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

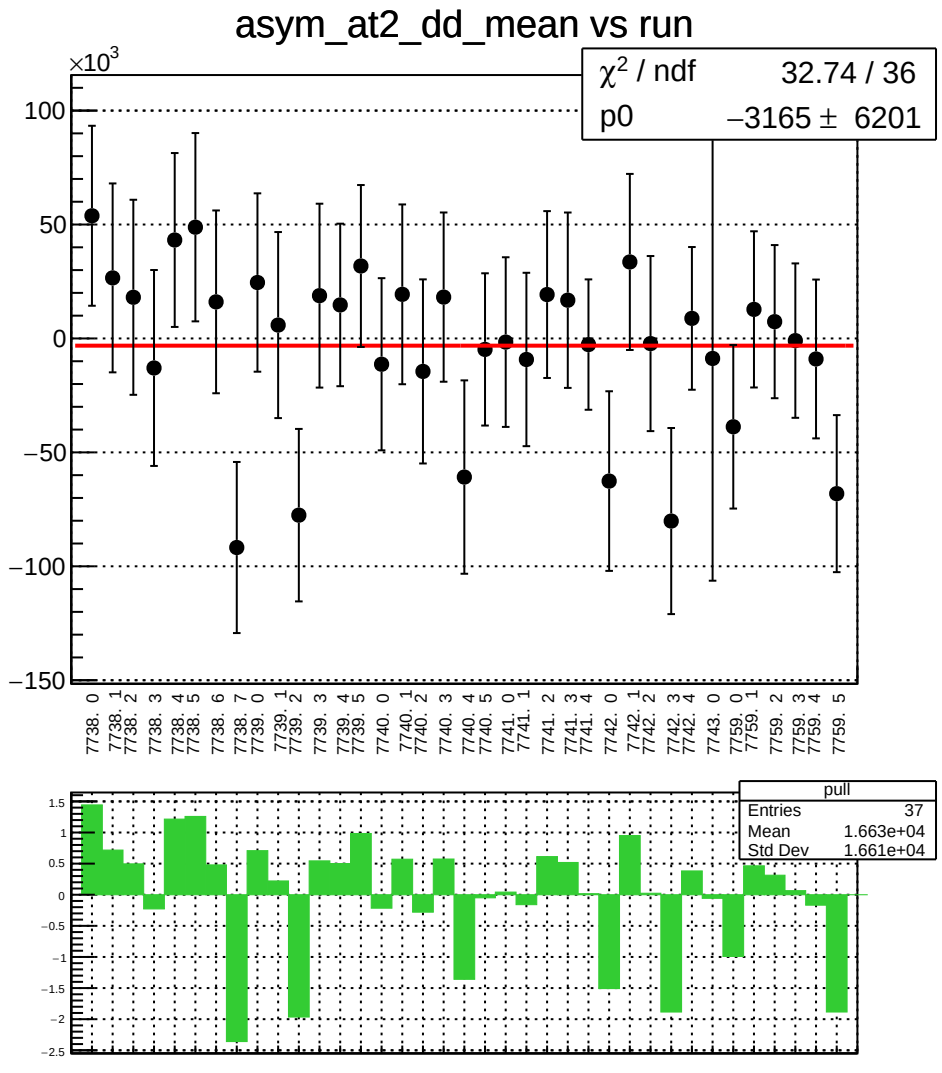

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 46.92 / 36
p0 1610 ± 3130
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 164.6
Std Dev 148.1
2
1
0
−1
−2

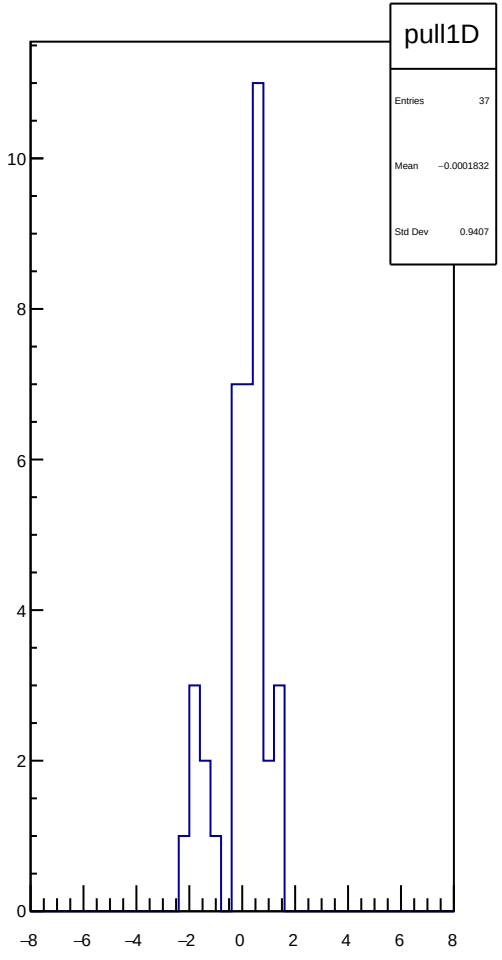

pull1D
Entries 37
Mean 0.01331
Std Dev 1.126
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

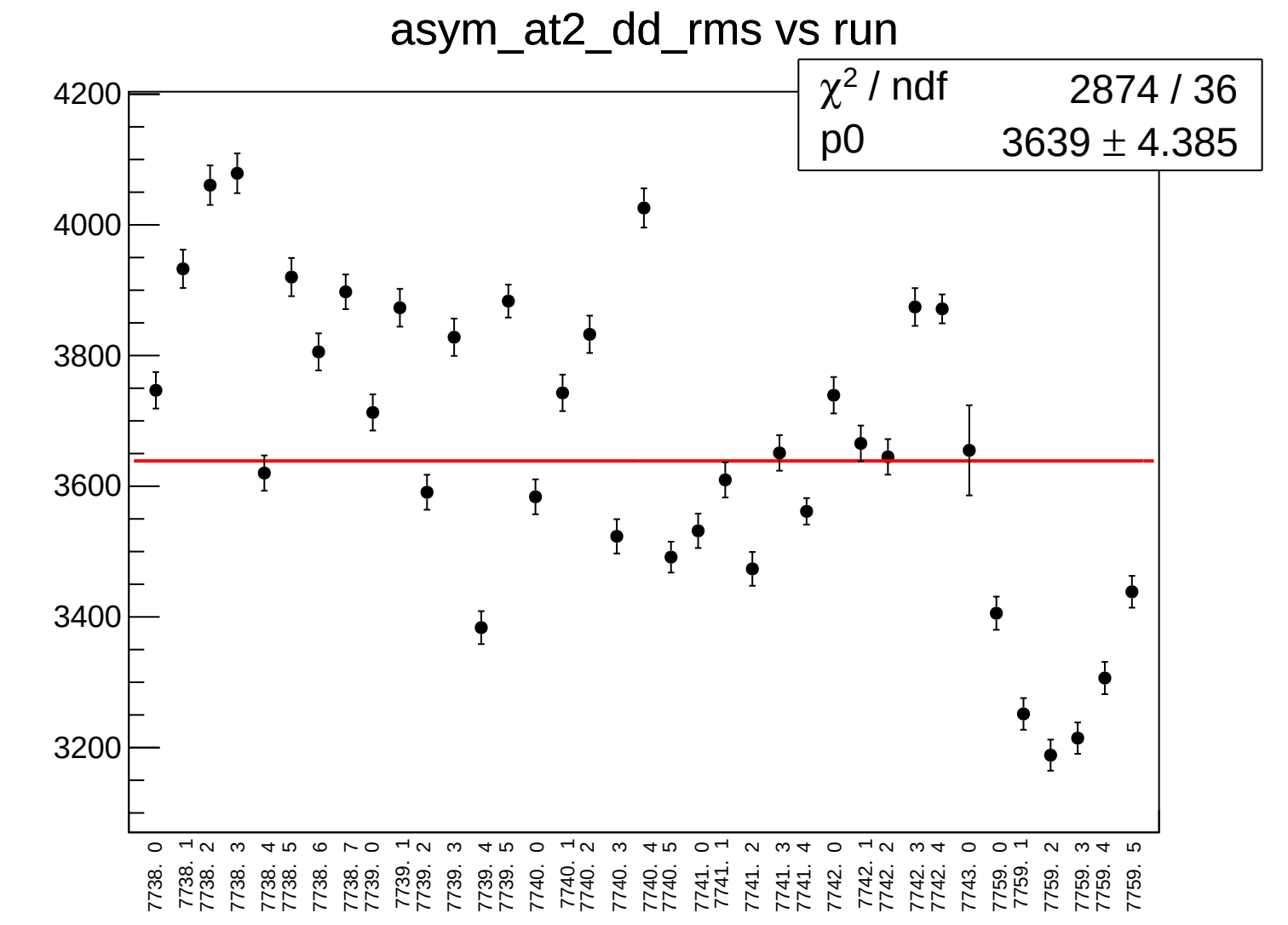

dit_asym_at2_dd_rms vs run
χ² / ndf 2.261e+04 / 36
p0 1810 ± 2.213
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

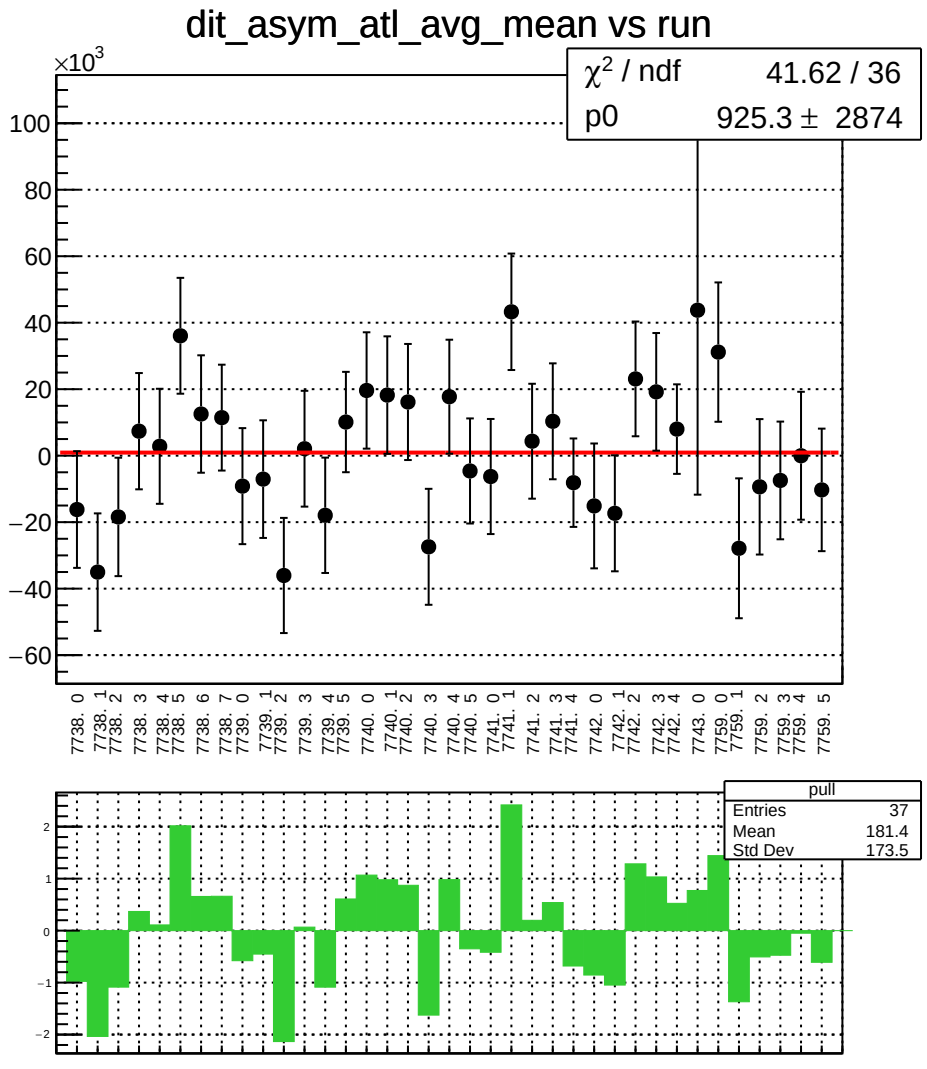

asym_at2_dd_correction_mean vs run
×10^3
χ^2 / ndf 33.98 / 36
p0 3930 ± 8344
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 234.7
Std Dev 217.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01361
Std Dev 0.9582
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

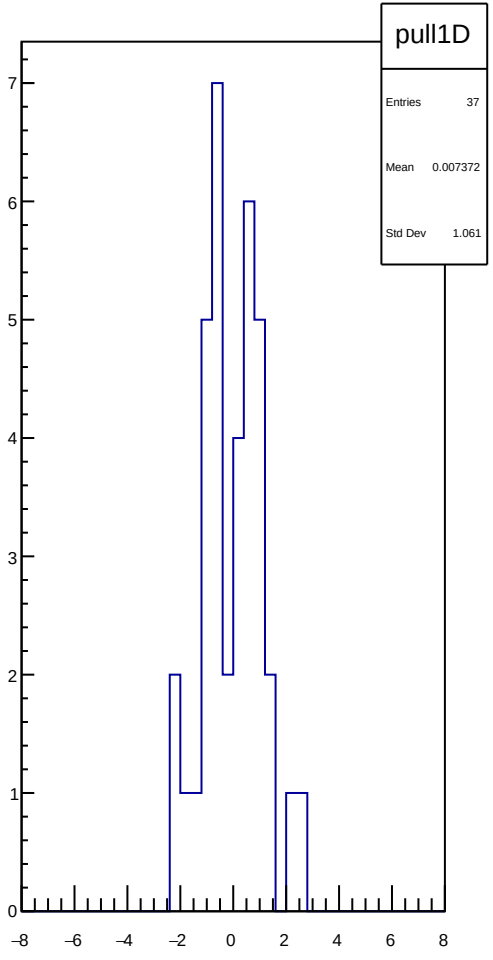

asym_at2_dd_correction_rms vs run
χ² / ndf 7266 / 36
p0 4881 ± 5.9
7500
7000
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

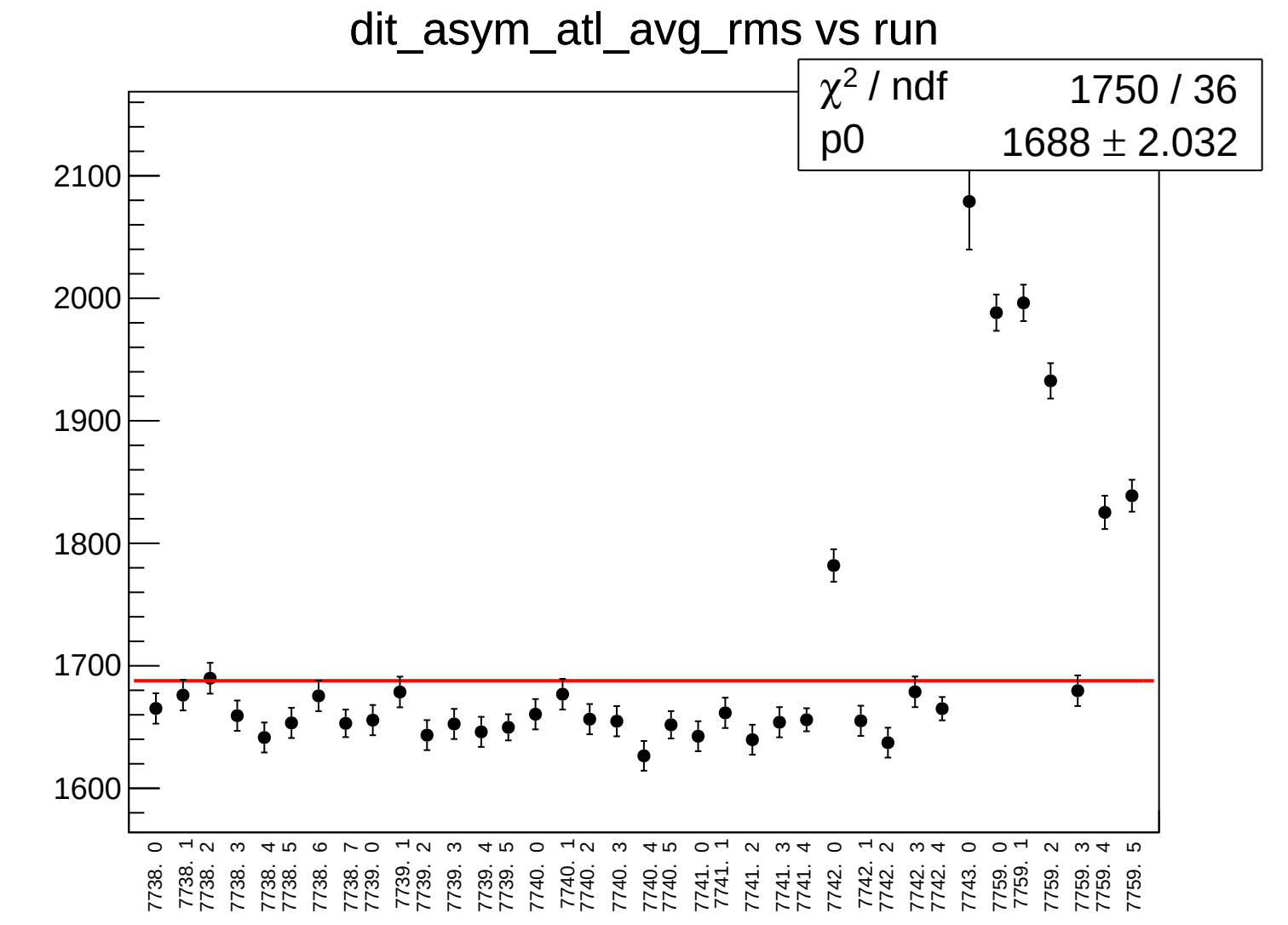

asym_at2_dd_mean vs run
×10^3
χ² / ndf 32.74 / 36
p0 −3165 ± 6201
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1.663e+04
Std Dev 1.661e+04
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

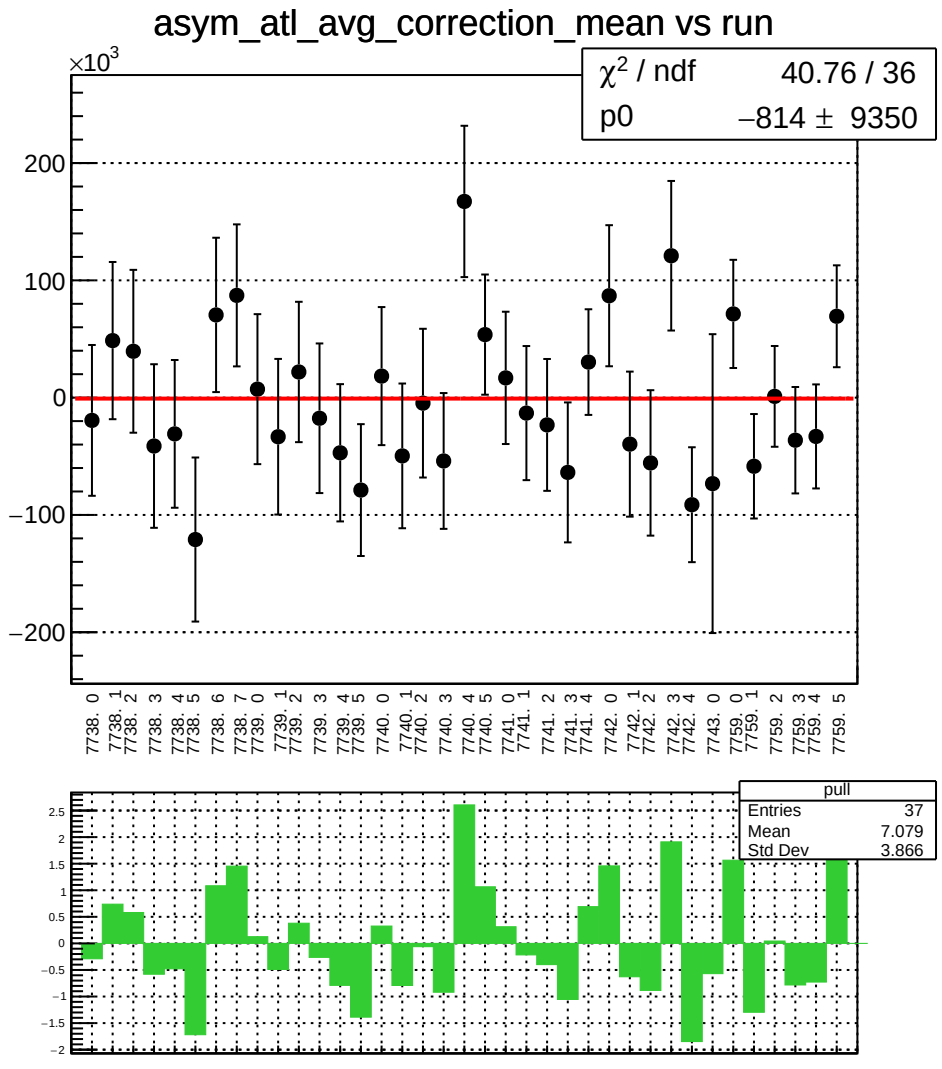

pull1D
Entries 37
Mean −0.0001832
Std Dev 0.9407
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

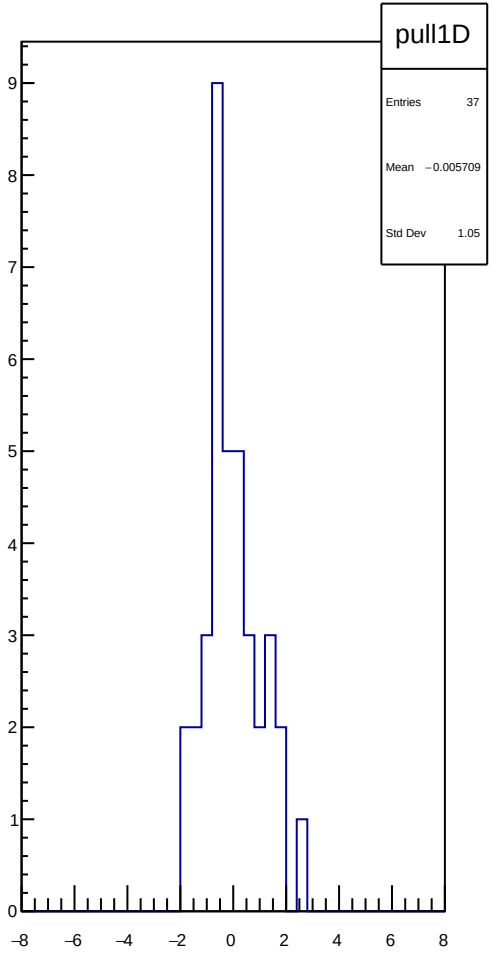

asym_at2_dd_rms vs run
χ² / ndf 2874 / 36
p0 3639 ± 4.385
4200
4000
3800
3600
3400
3200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

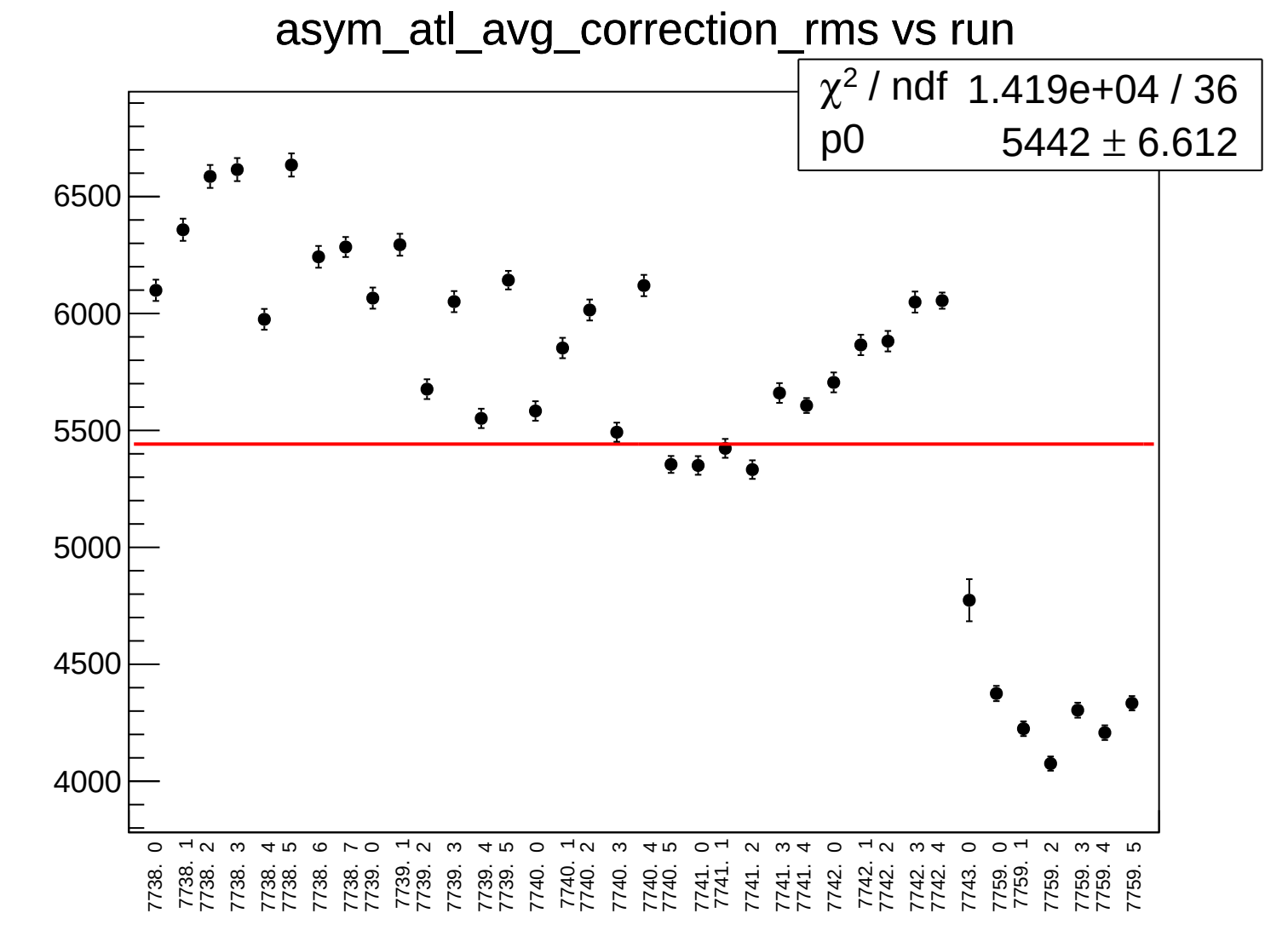

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 41.62 / 36
p0 925.3 ± 2874
100
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.4
Std Dev 173.5
2
1
0
−1
−2

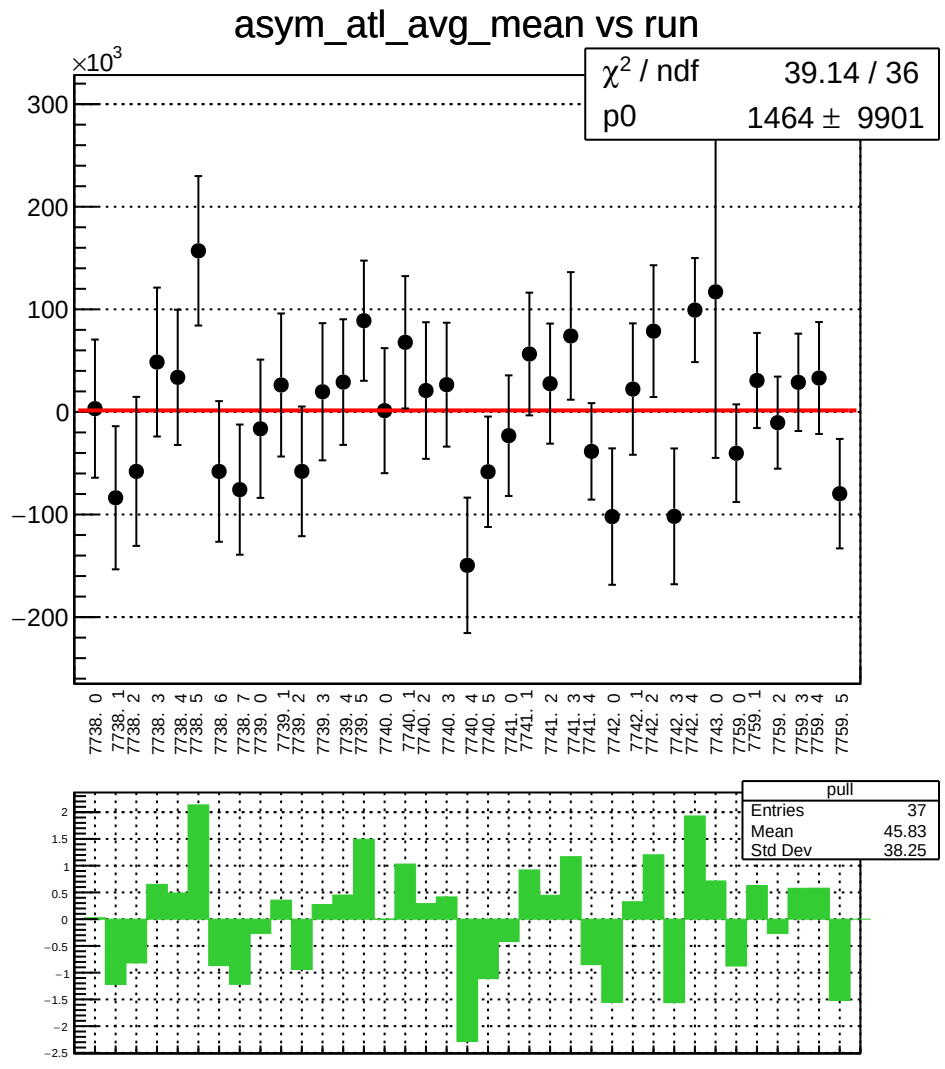

pull1D
Entries 37
Mean 0.007372
Std Dev 1.061
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

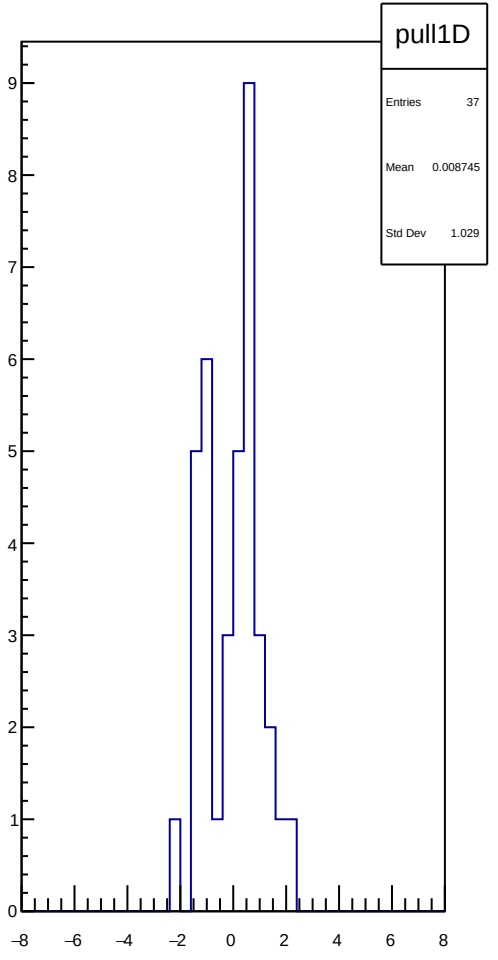

dit_asym_atl_avg_rms vs run
χ² / ndf 1750 / 36
p0 1688 ± 2.032
2100
2000
1900
1800
1700
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

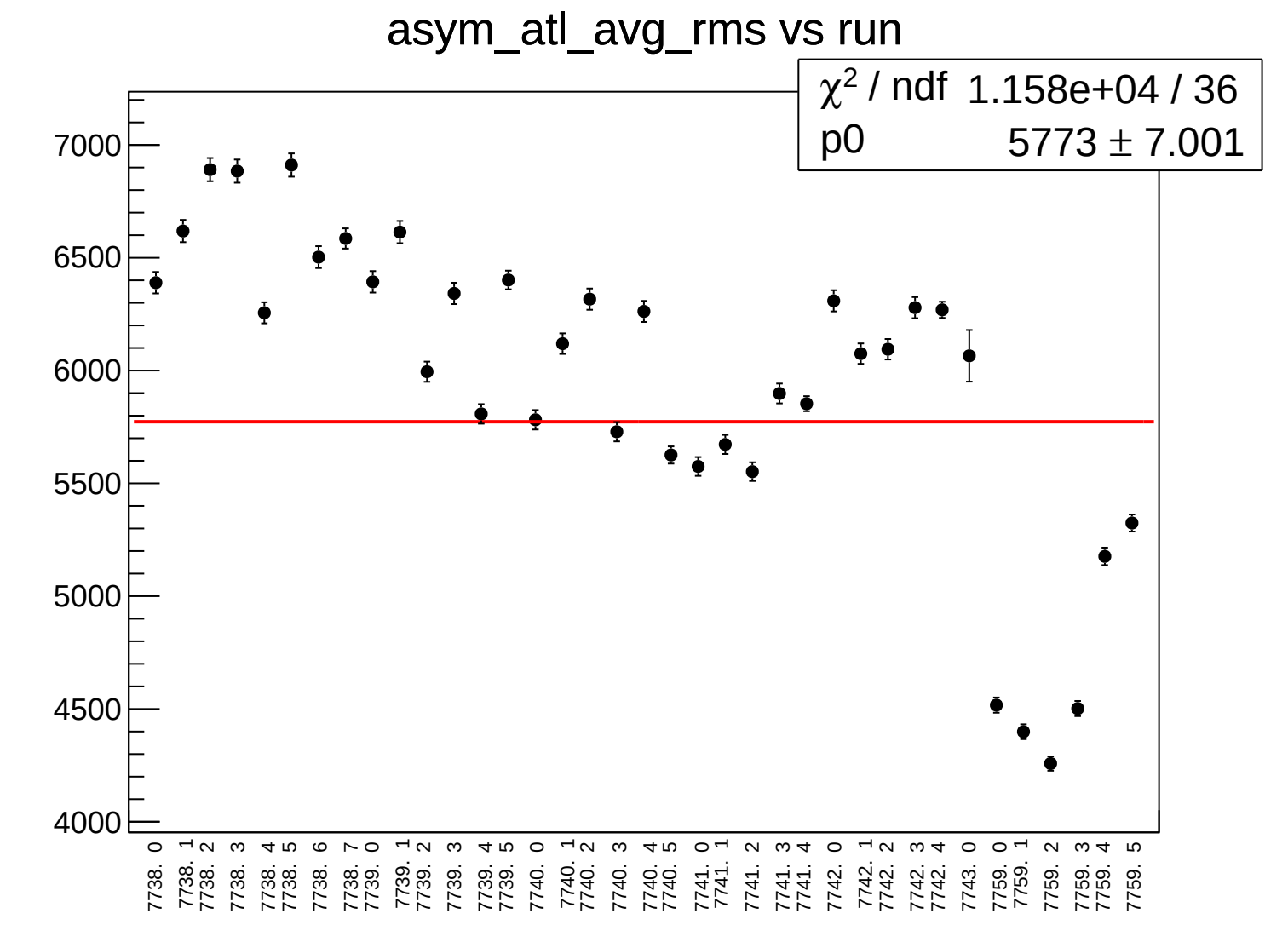

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 40.76 / 36
p0 −814 ± 9350
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 7.079
Std Dev 3.866
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

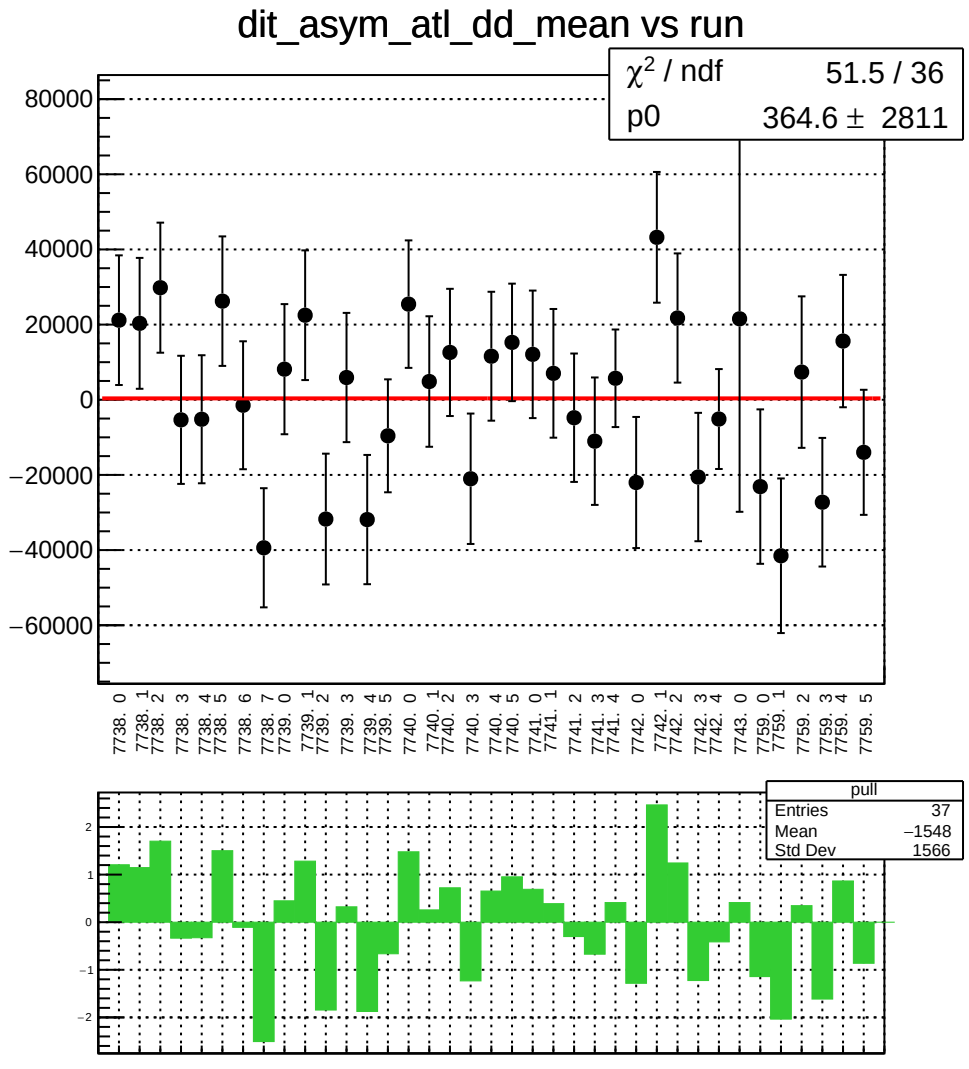

pull1D
Entries 37
Mean −0.005709
Std Dev 1.05
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

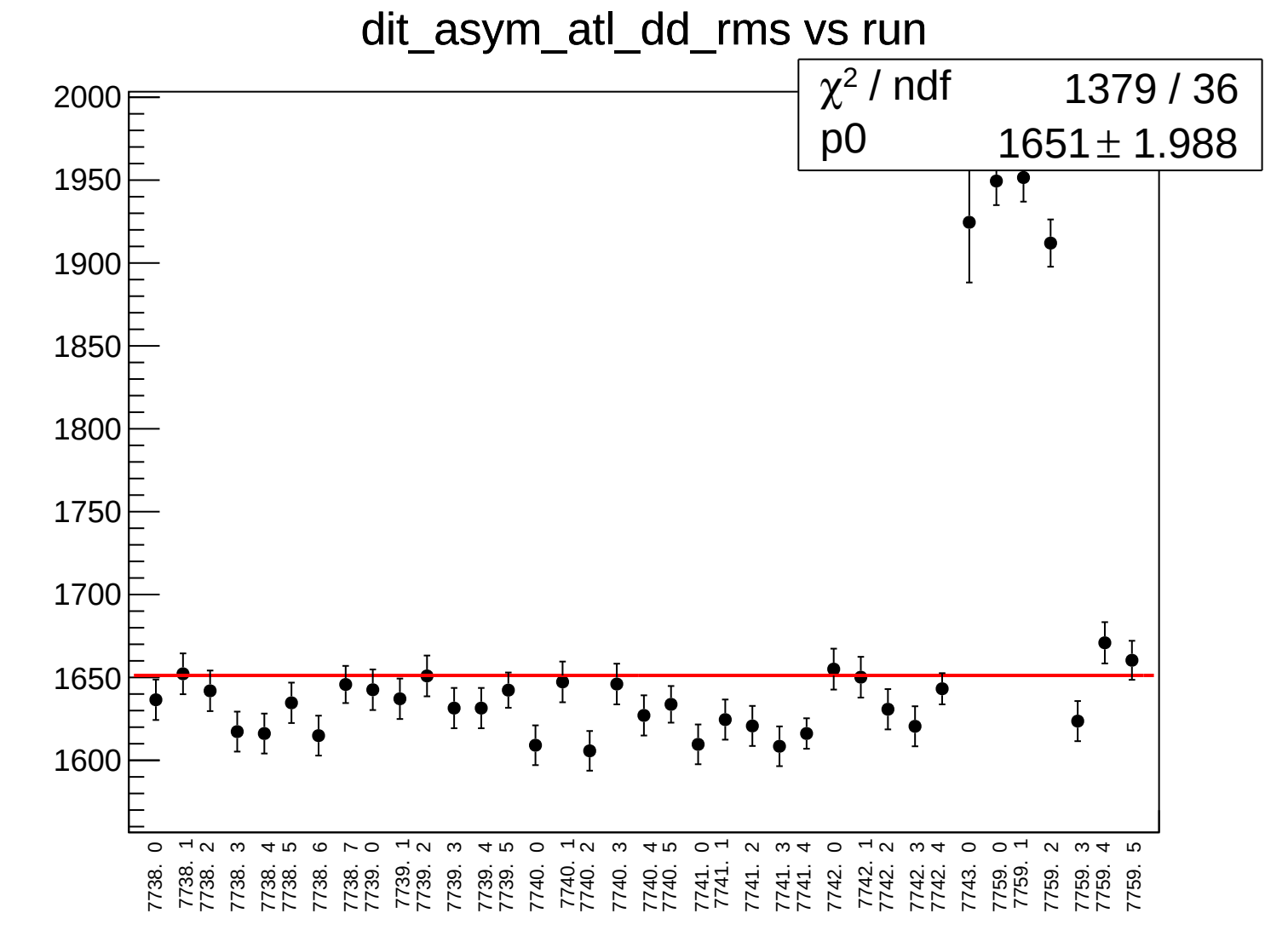

asym_atl_avg_correction_rms vs run
χ² / ndf 1.419e+04 / 36
p0 5442 ± 6.612
6500
6000
5500
5000
4500
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

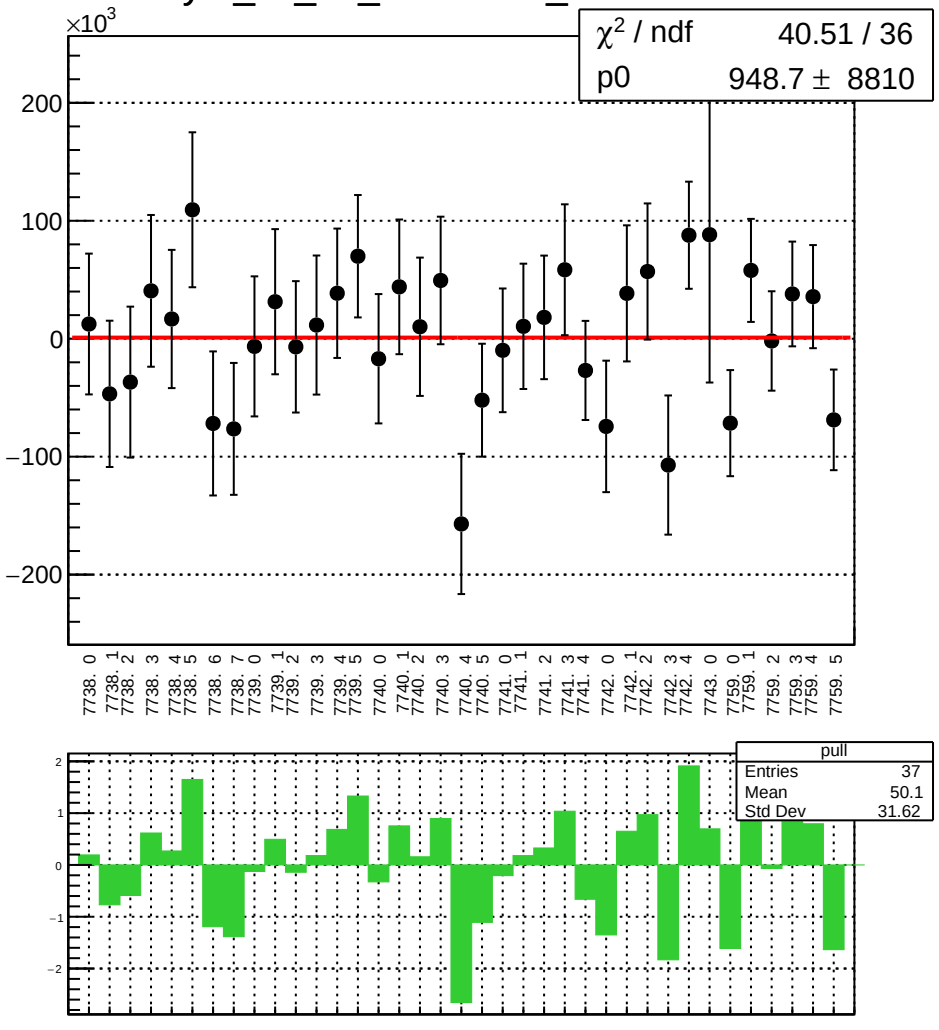

asym_atl_avg_mean vs run
×10^3
χ² / ndf 39.14 / 36
p0 1464 ± 9901
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 45.83
Std Dev 38.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

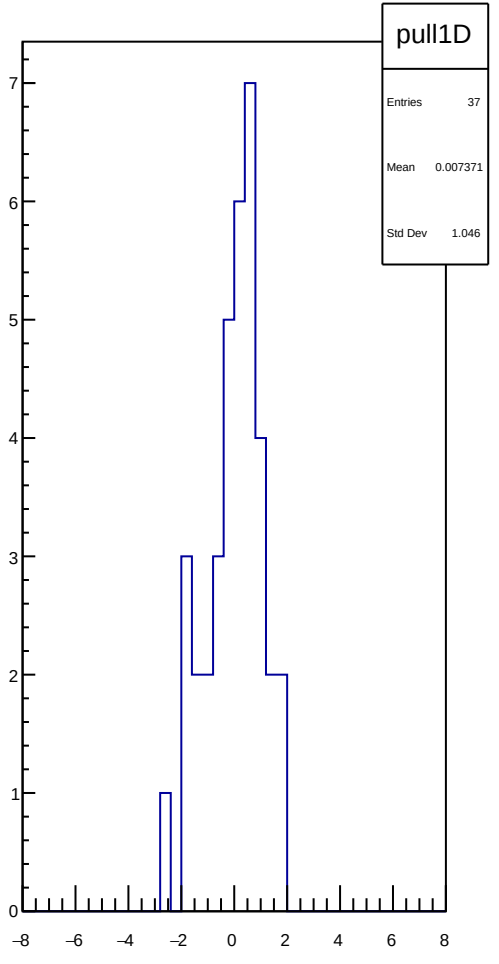

pull1D
Entries 37
Mean 0.008745
Std Dev 1.029
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

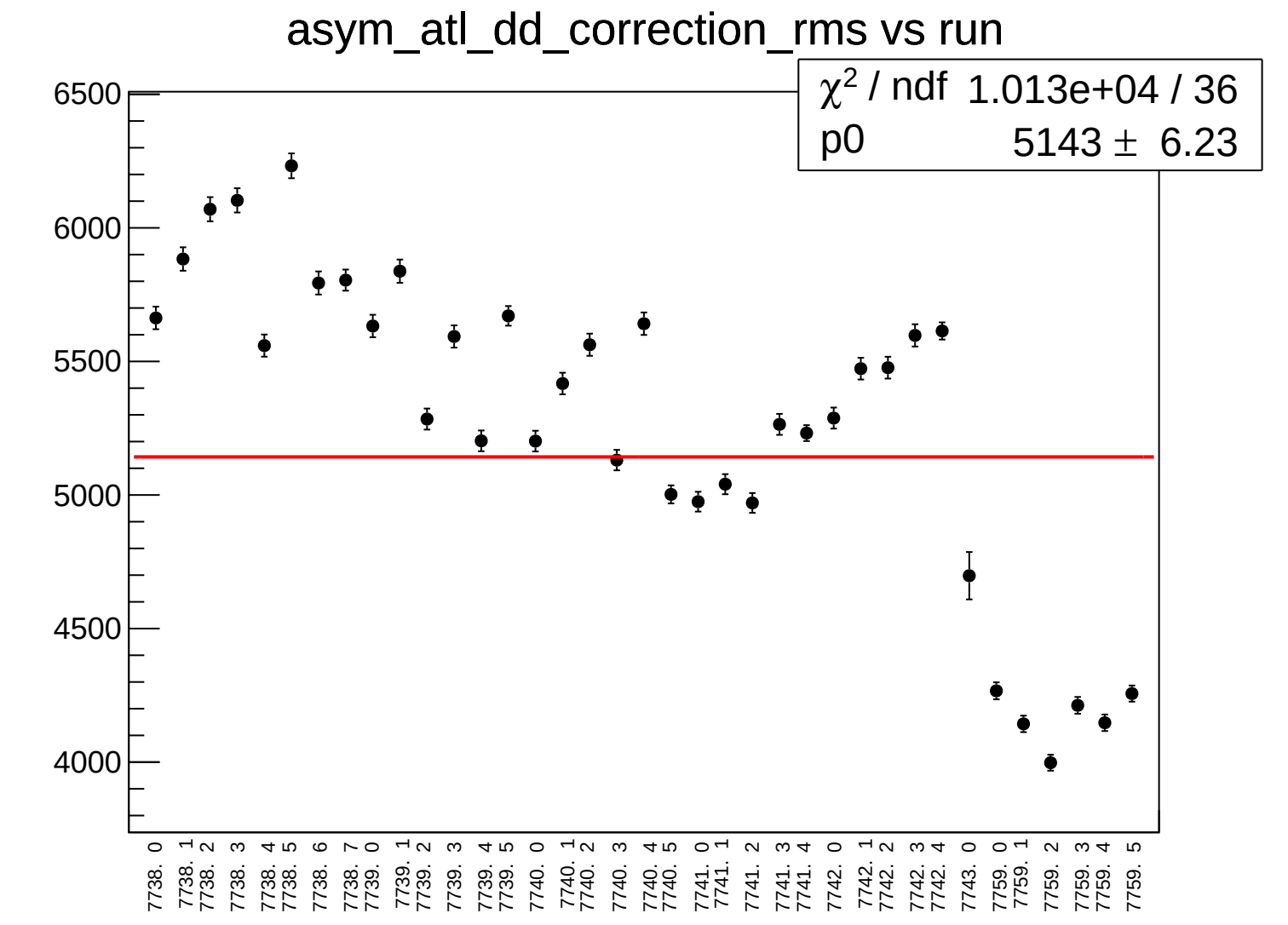

asym_atl_avg_rms vs run
χ² / ndf 1.158e+04 / 36
p0 5773 ± 7.001
7000
6500
6000
5500
5000
4500
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

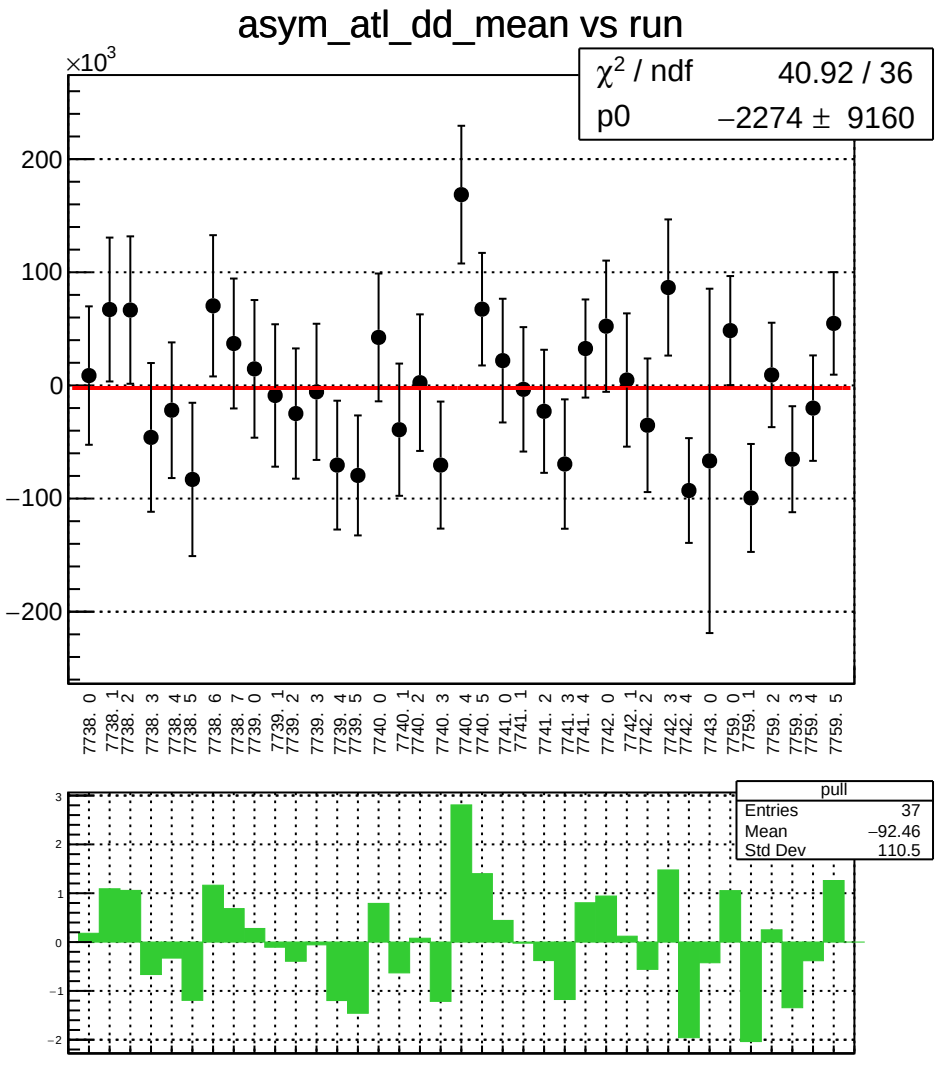

dit_asym_atl_dd_mean vs run
χ² / ndf 51.5 / 36
p0 364.6 ± 2811
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1548
Std Dev 1566
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.001702
Std Dev 1.18
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

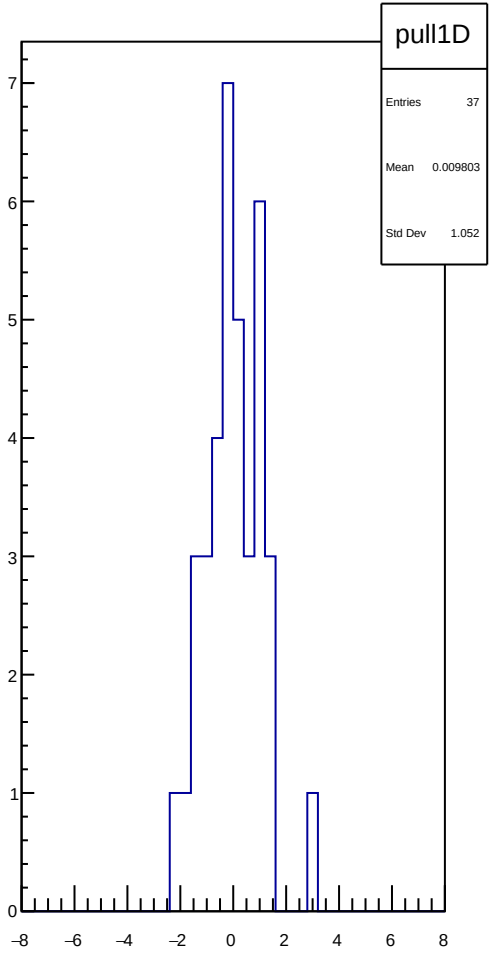

dit_asym_atl_dd_rms vs run
χ² / ndf 1379 / 36
p0 1651 ± 1.988
2000
1950
1900
1850
1800
1750
1700
1650
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

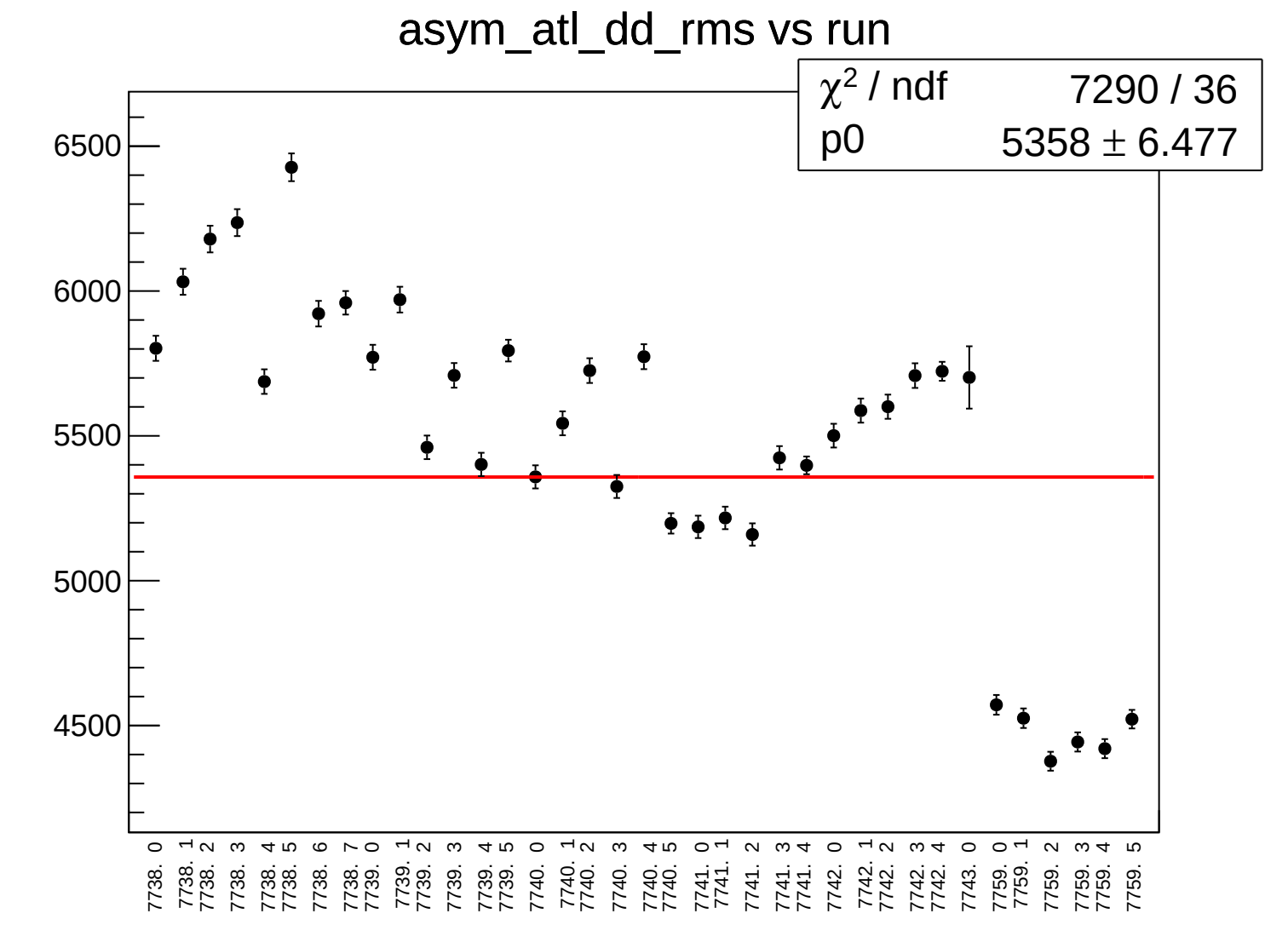

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 40.51 / 36
p0 948.7 ± 8810
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 50.1
Std Dev 31.62
2
1
0
−1
−2

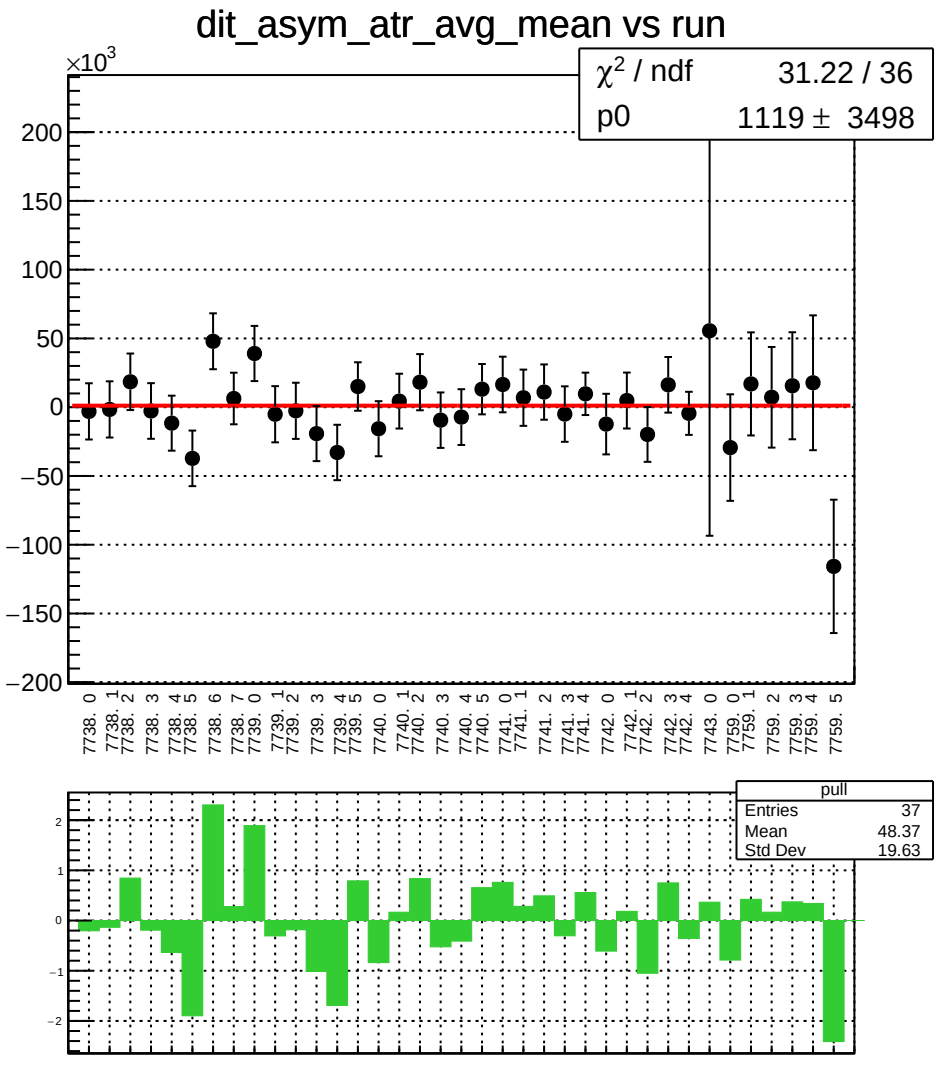

pull1D
Entries 37
Mean 0.007371
Std Dev 1.046
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

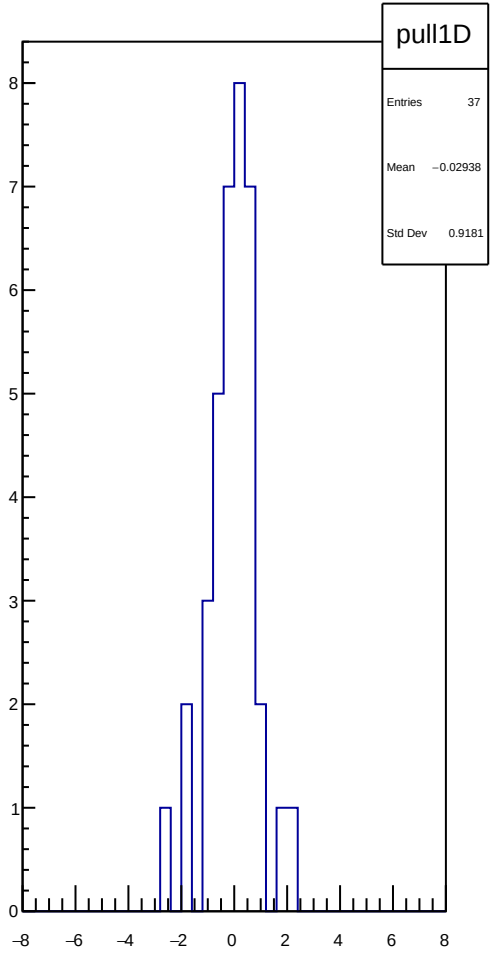

asym_atl_dd_correction_rms vs run
χ² / ndf 1.013e+04 / 36
p0 5143 ± 6.23
6500
6000
5500
5000
4500
4000
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

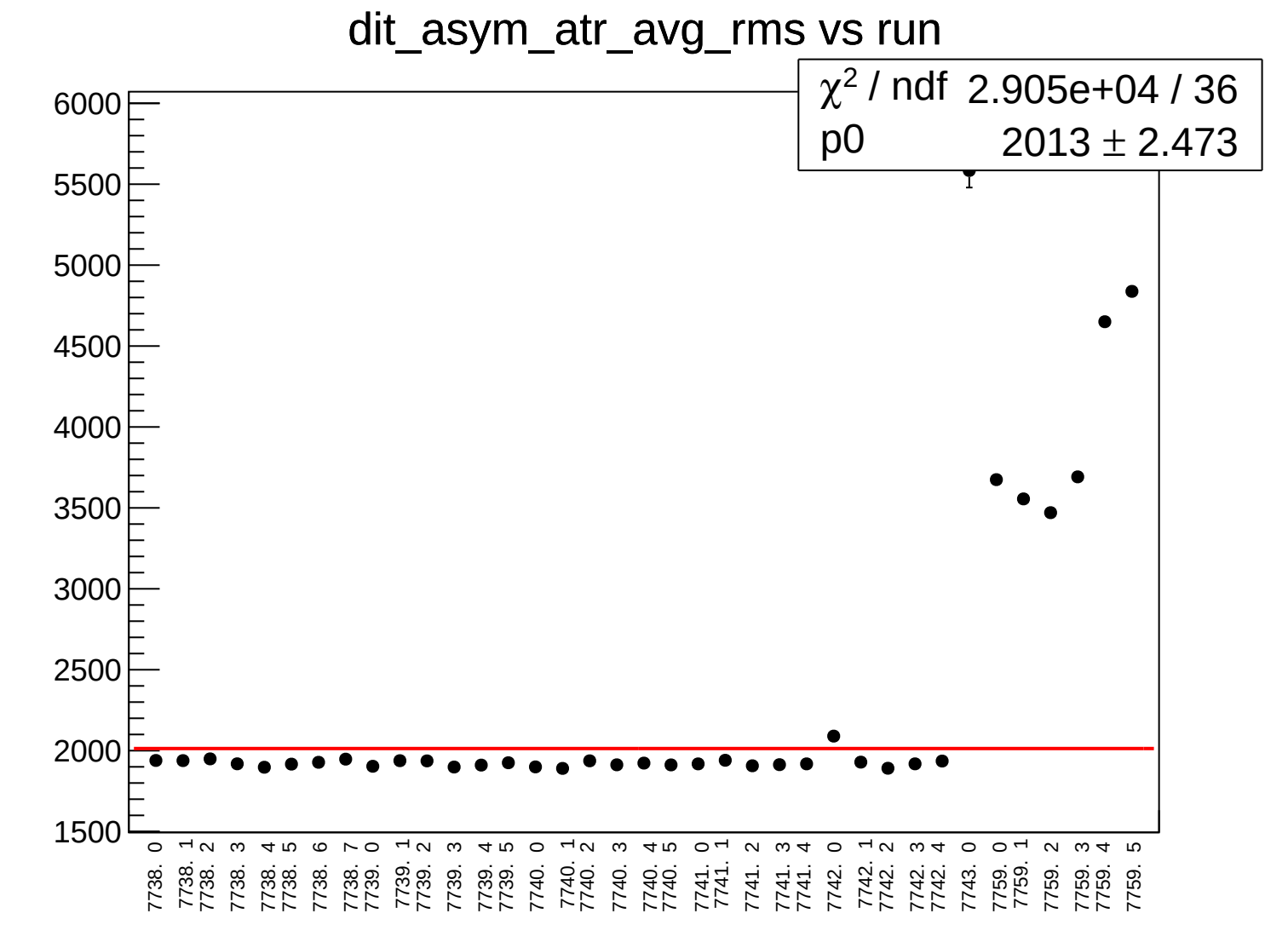

asym_atl_dd_mean vs run
×10^3
χ² / ndf 40.92 / 36
p0 −2274 ± 9160
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −92.46
Std Dev 110.5
3
2
1
0
−1
−2

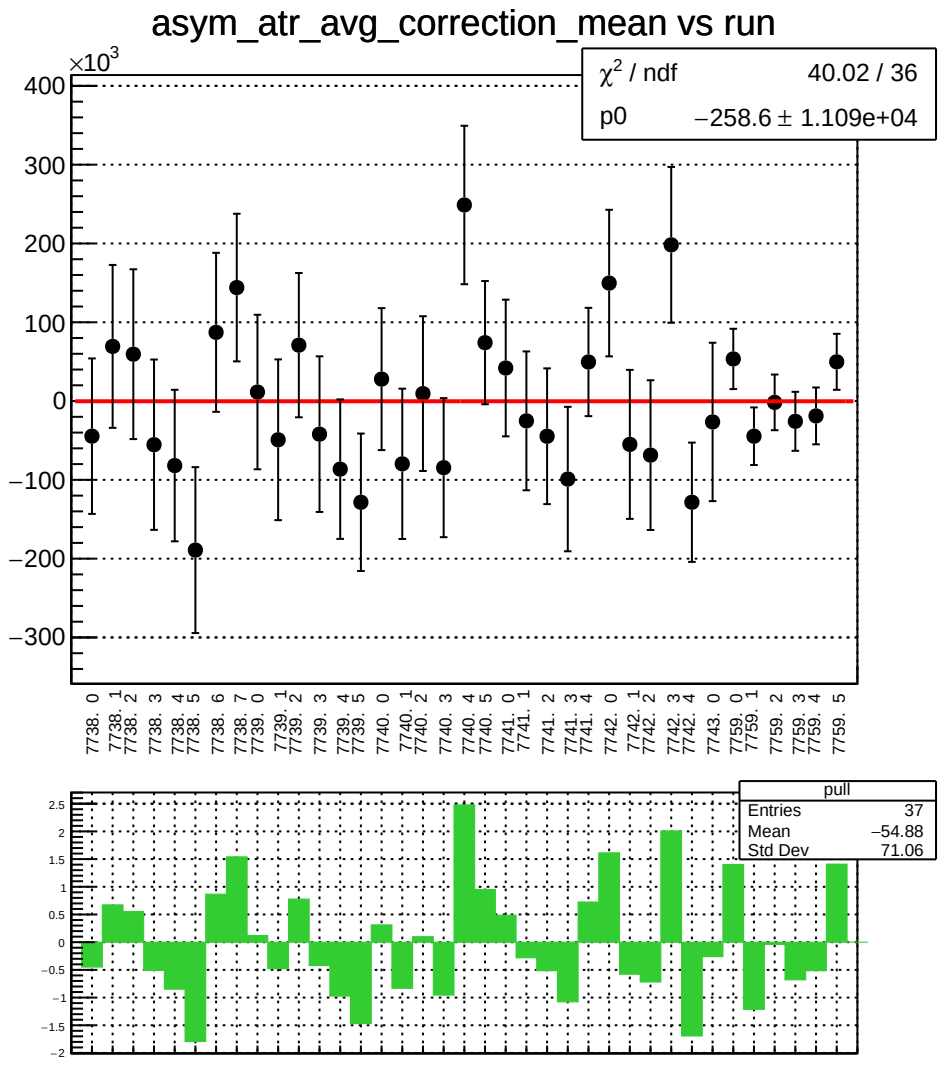

pull1D
Entries 37
Mean 0.009803
Std Dev 1.052
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

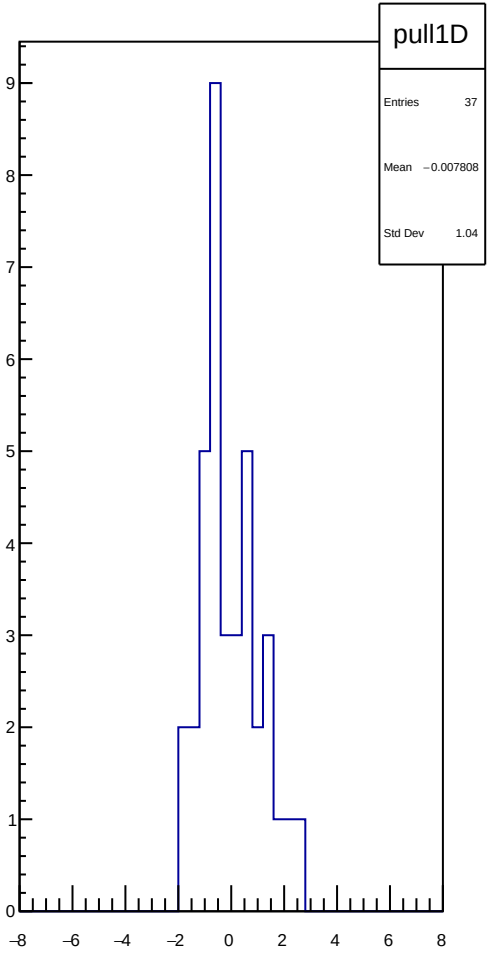

asym_atl_dd_rms vs run
χ² / ndf 7290 / 36
p0 5358 ± 6.477
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

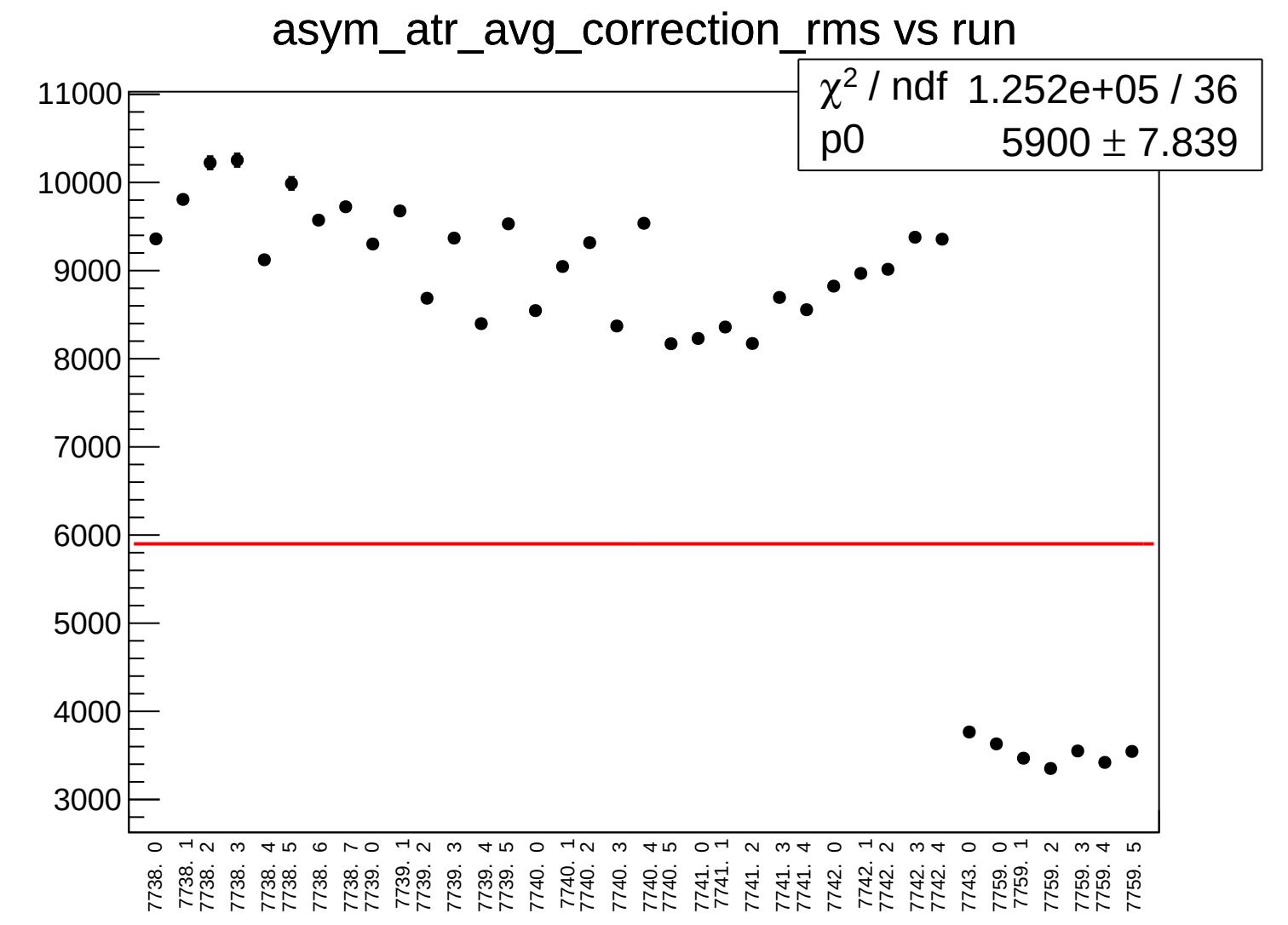

dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 31.22 / 36
p0 1119 ± 3498
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 48.37
Std Dev 19.63
2
1
0
−1
−2

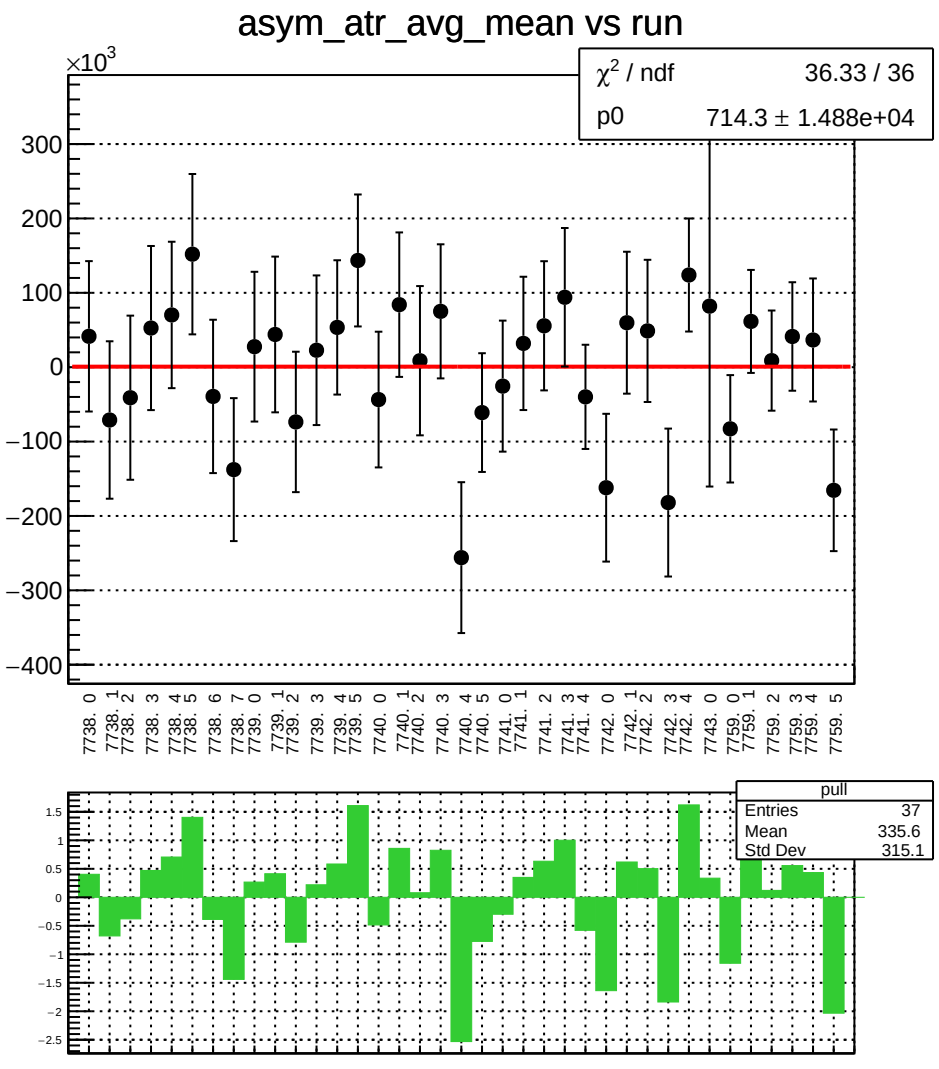

pull1D
Entries 37
Mean −0.02938
Std Dev 0.9181
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

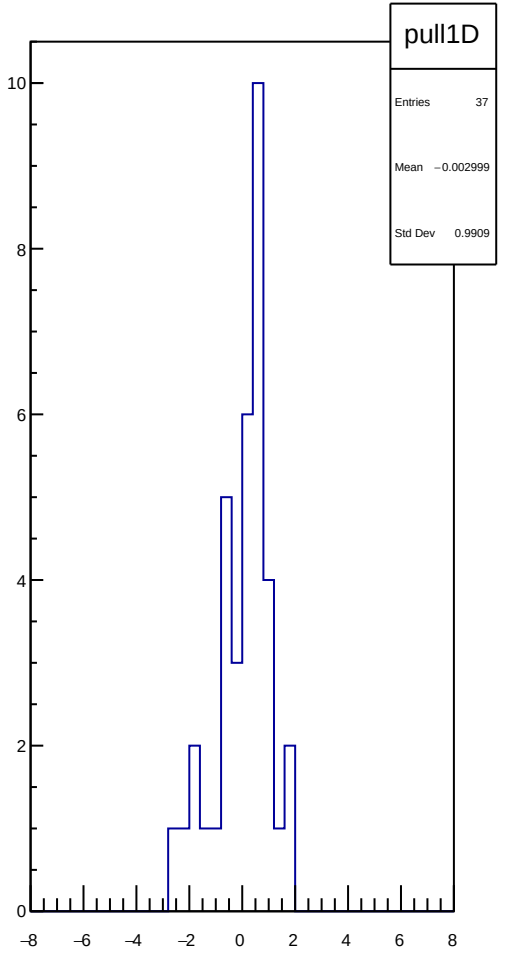

dit_asym_atr_avg_rms vs run
χ² / ndf 2.905e+04 / 36
p0 2013 ± 2.473
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

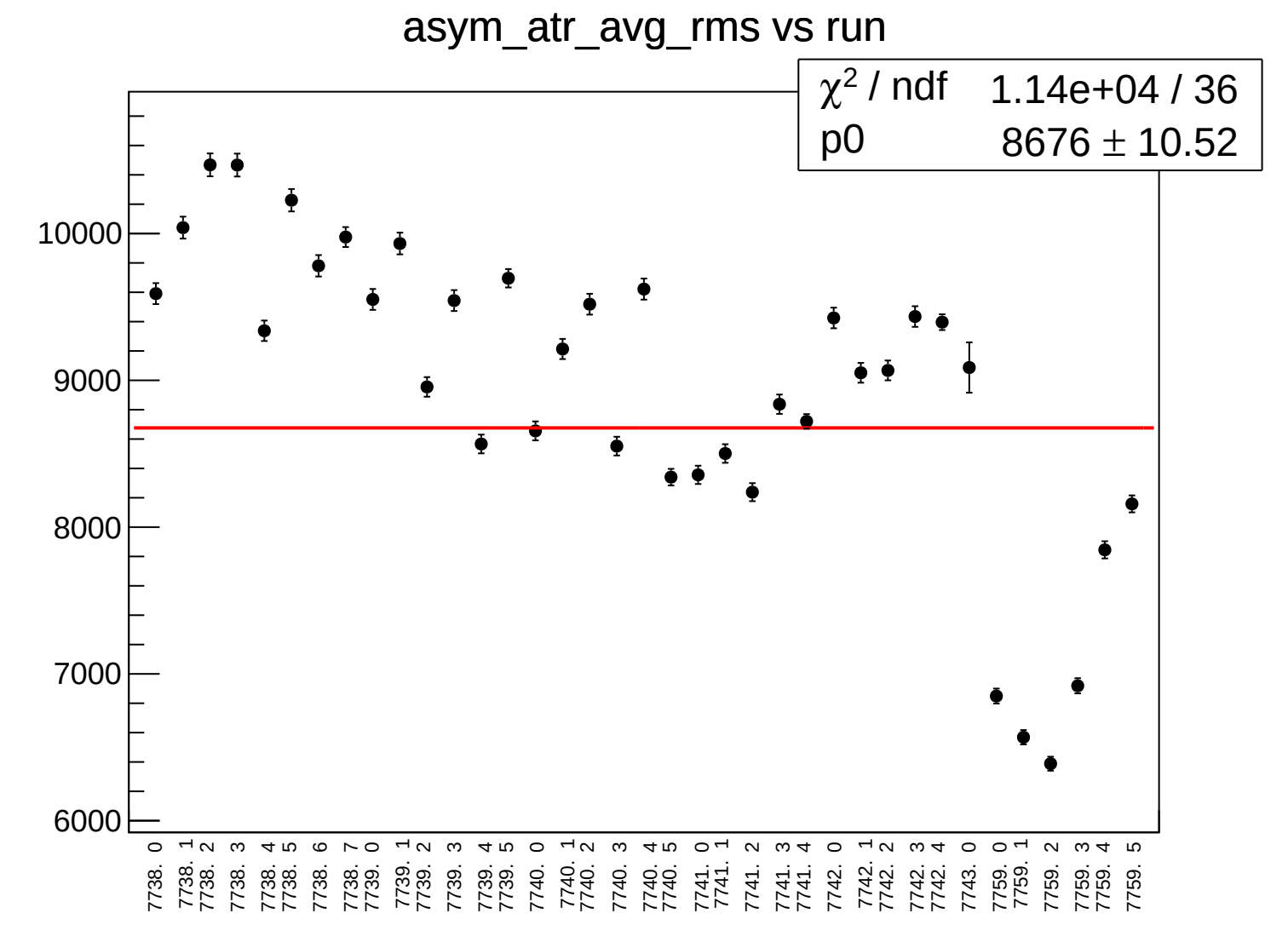

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 40.02 / 36
p0 −258.6 ± 1.109e+04
pull
Entries 37
Mean −54.88
Std Dev 71.06

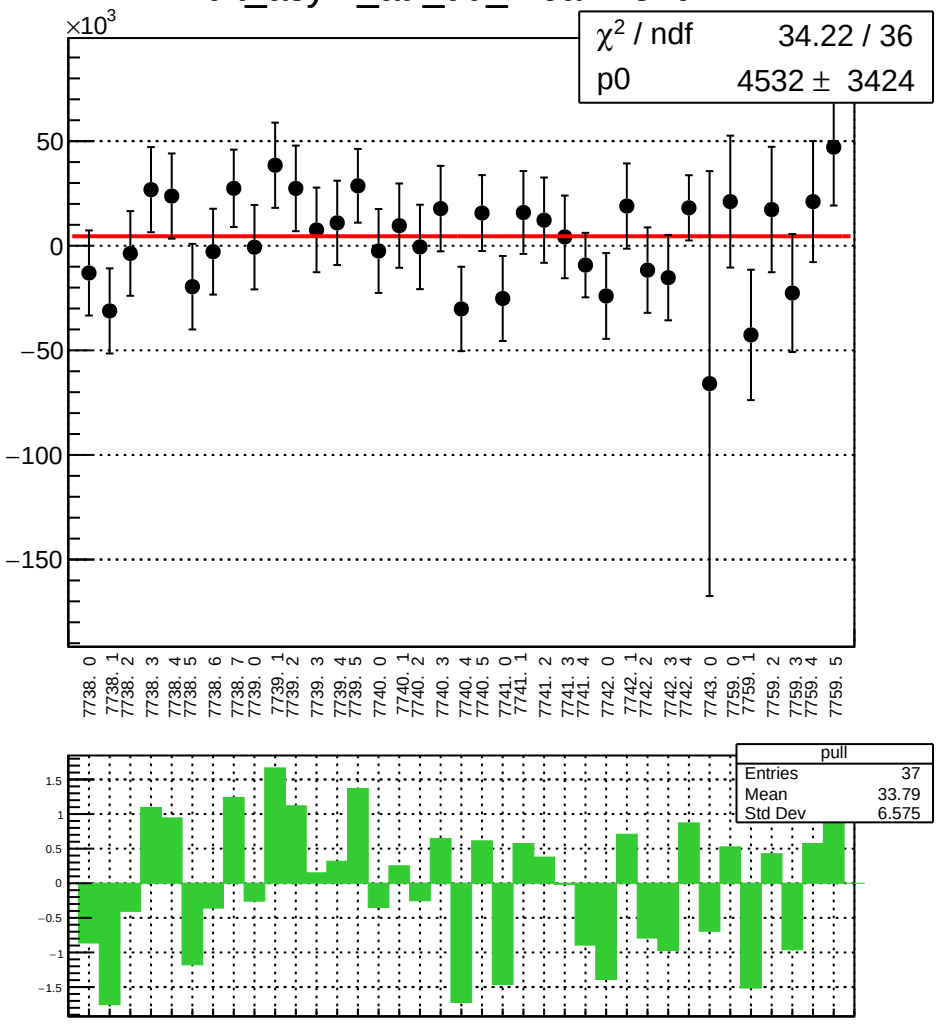

pull1D
Entries 37
Mean −0.007808
Std Dev 1.04

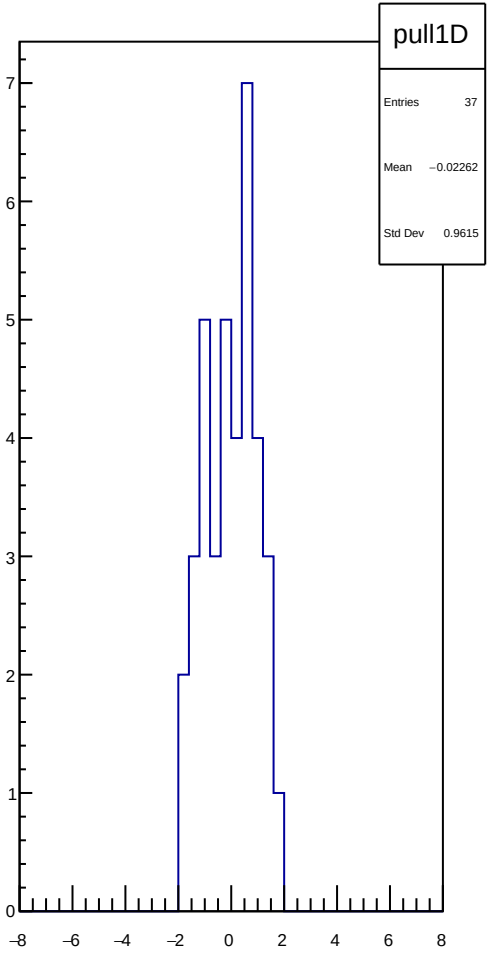

asym_atr_avg_correction_rms vs run
χ² / ndf 1.252e+05 / 36
p0 5900 ± 7.839
11000
10000
9000
8000
7000
6000
5000
4000
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

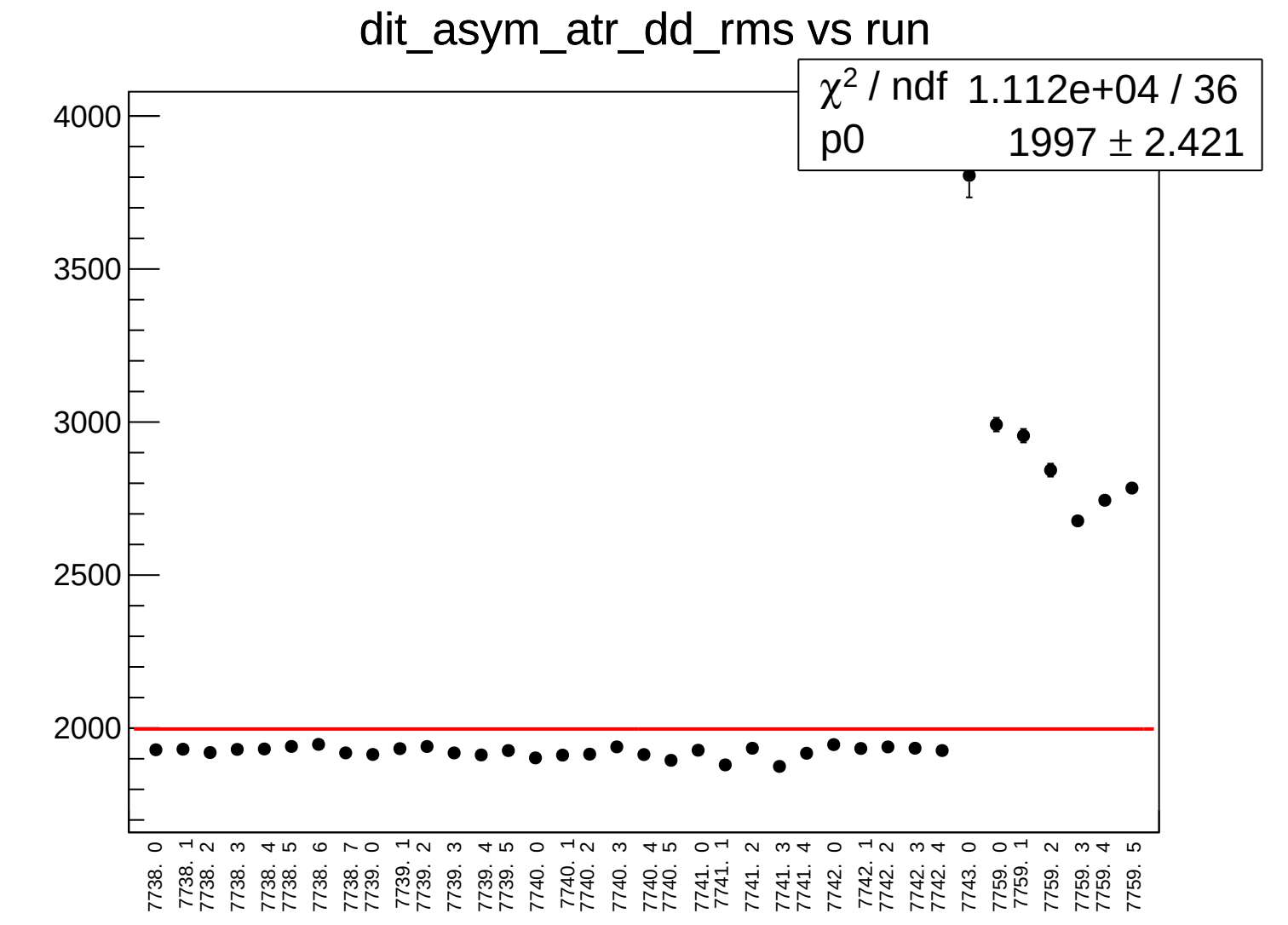

asym_atr_avg_mean vs run
×10^3
χ² / ndf 36.33 / 36
p0 714.3 ± 1.488e+04
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 335.6
Std Dev 315.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

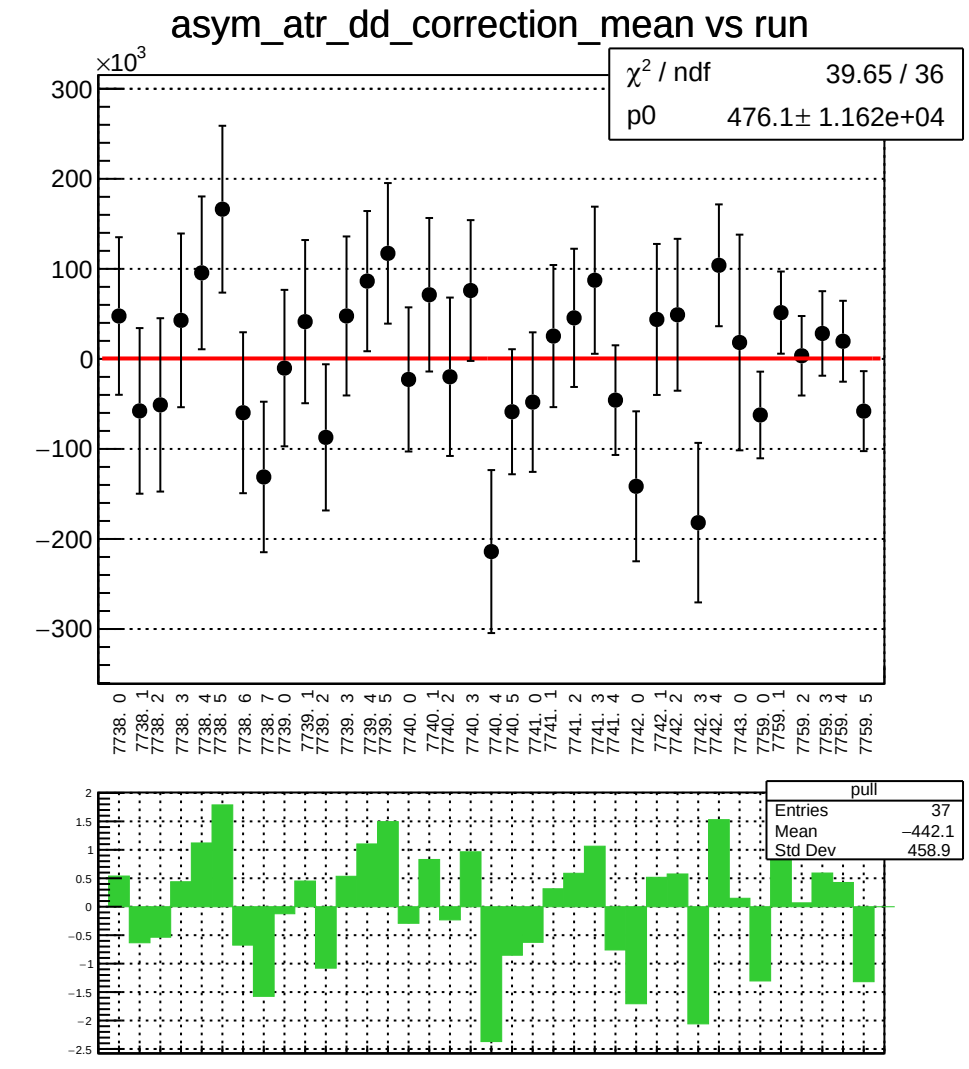

pull1D
Entries 37
Mean −0.002999
Std Dev 0.9909
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

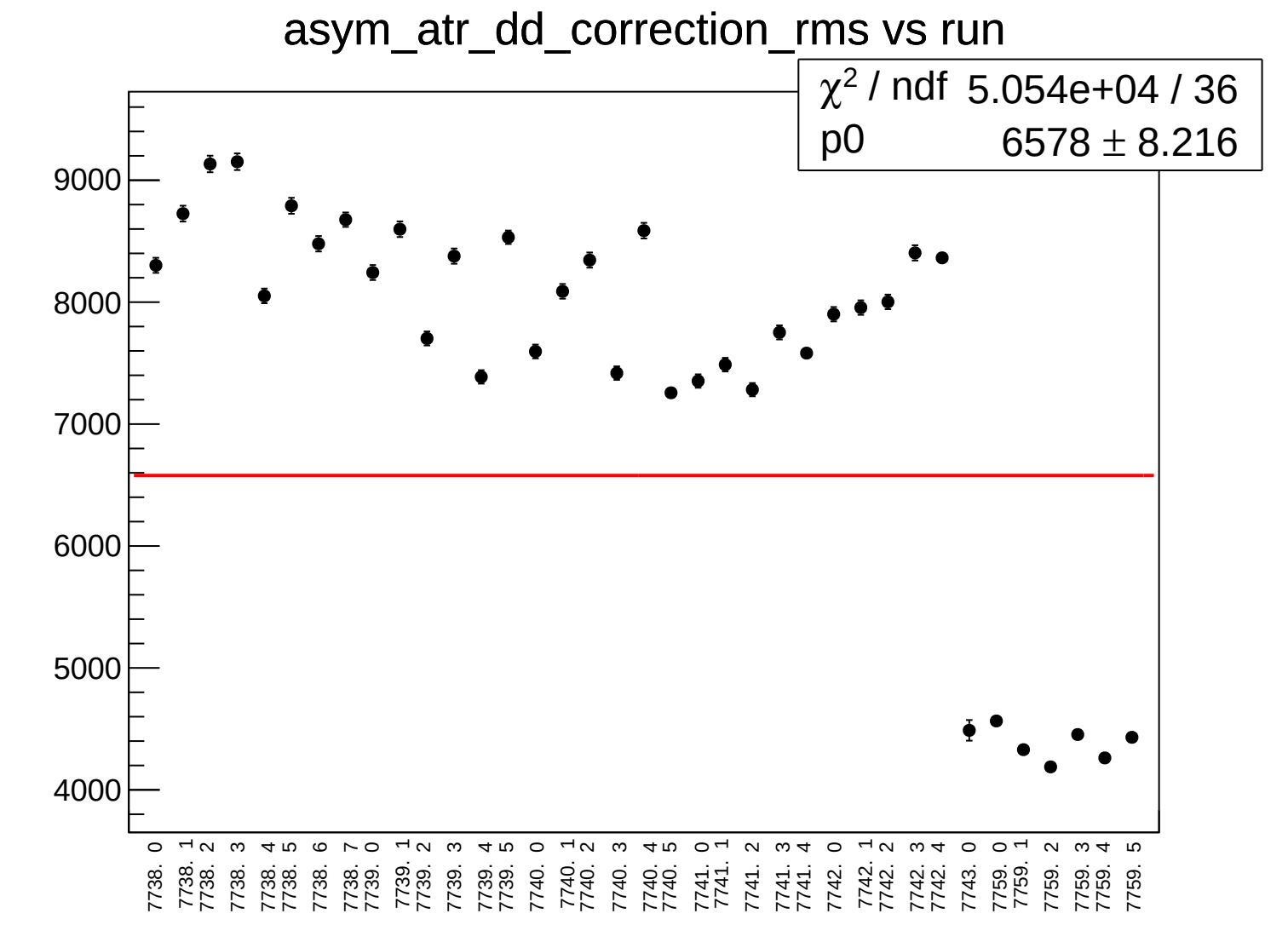

asym_atr_avg_rms vs run
χ² / ndf 1.14e+04 / 36
p0 8676 ± 10.52
10000
9000
8000
7000
6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

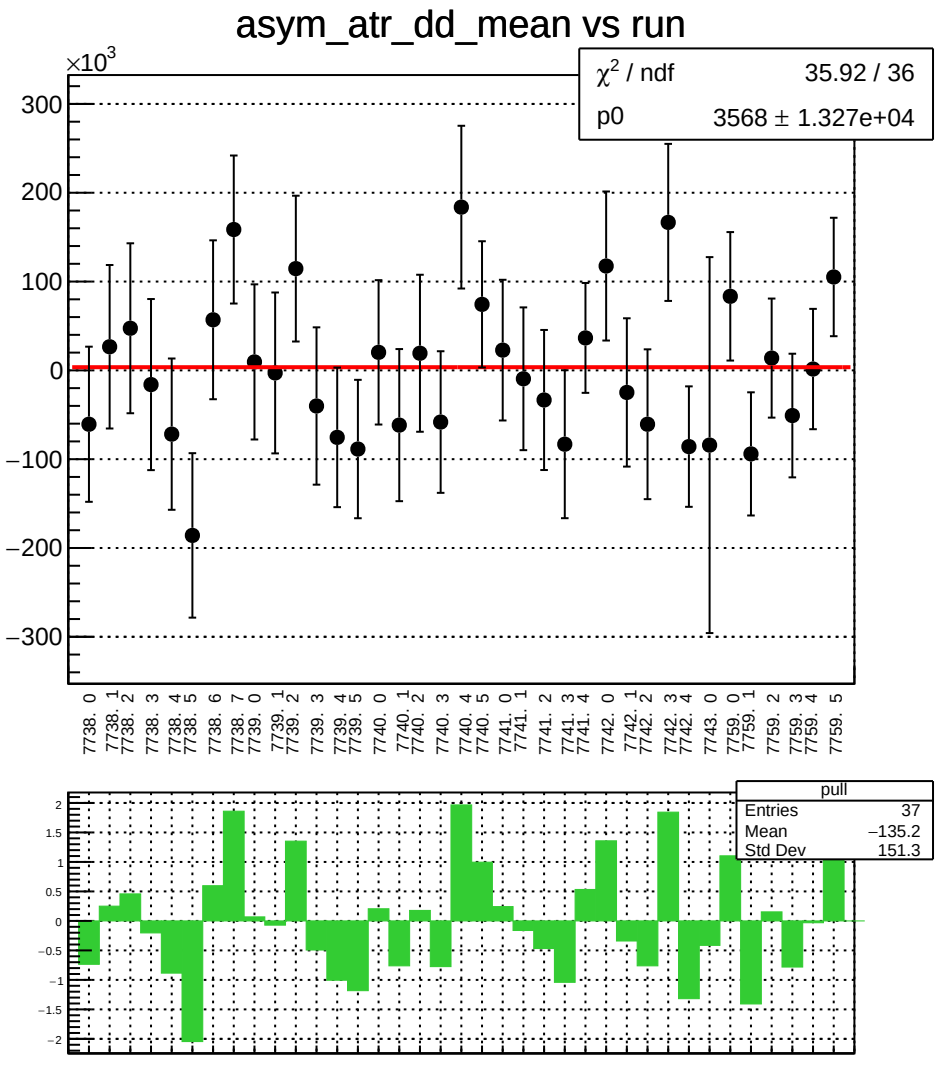

dit_asym_atr_dd_mean vs run
χ² / ndf 34.22 / 36
p0 4532 ± 3424
×10³
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.79
Std Dev 6.575
1.5
1
0.5
0
−0.5
−1
−1.5

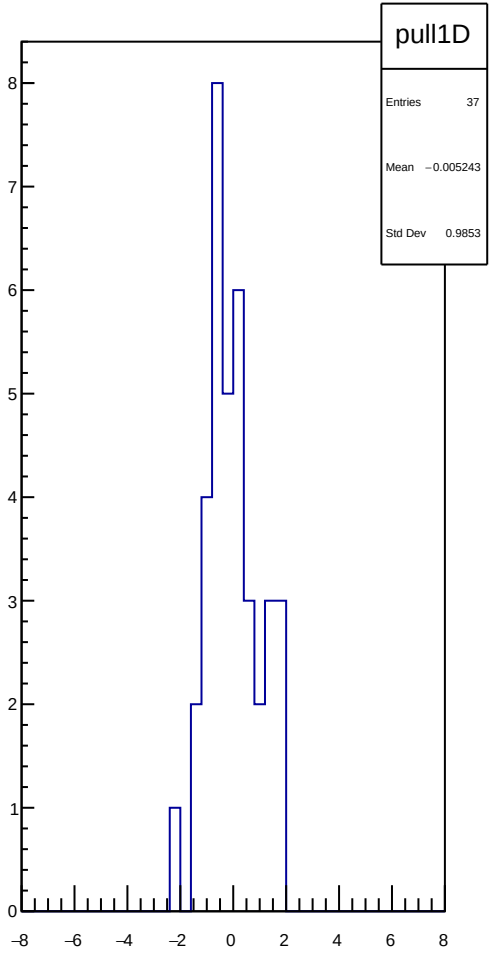

pull1D
Entries 37
Mean −0.02262
Std Dev 0.9615
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

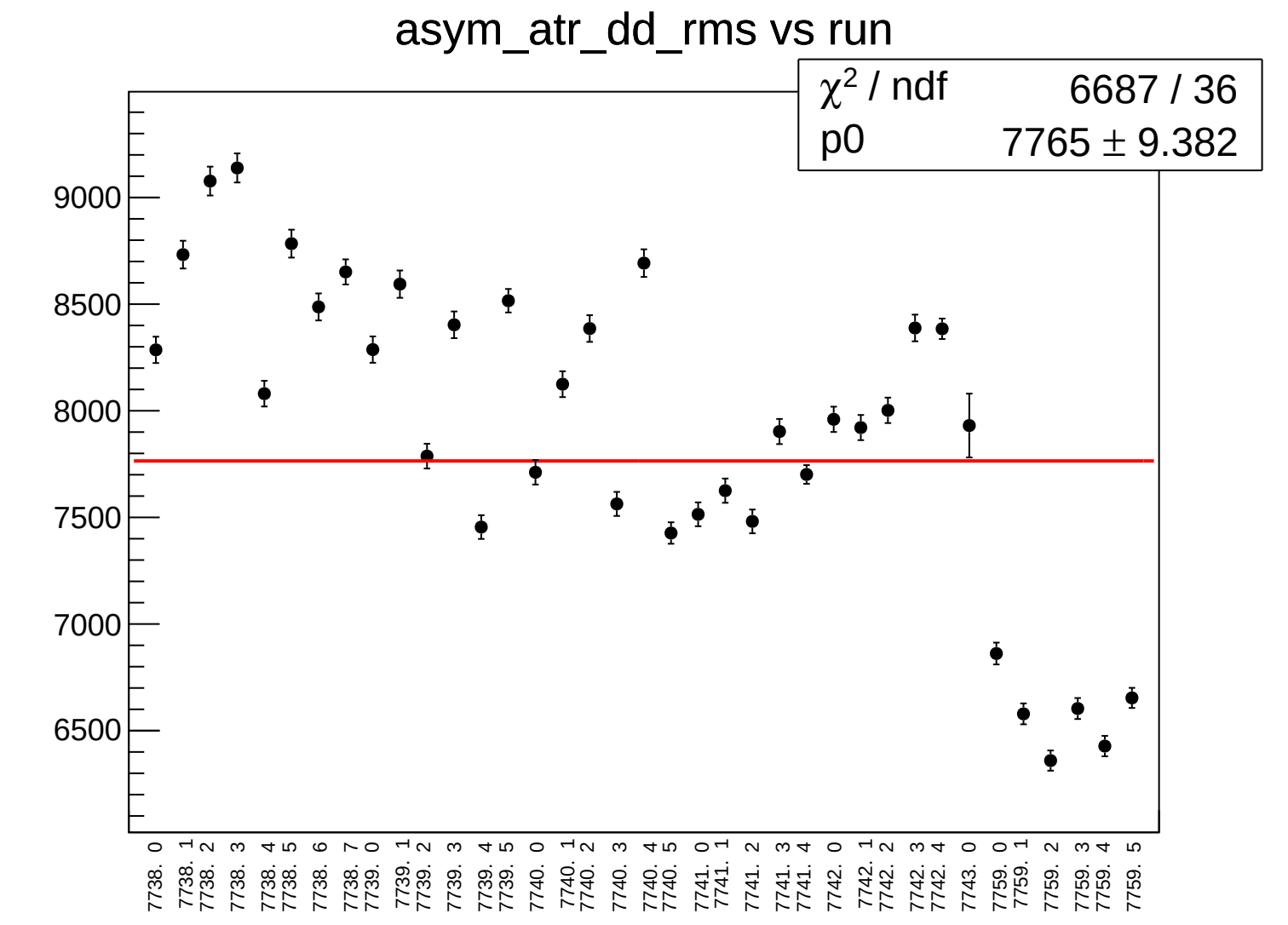

dit_asym_atr_dd_rms vs run
χ² / ndf 1.112e+04 / 36
p0 1997 ± 2.421
4000
3500
3000
2500
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

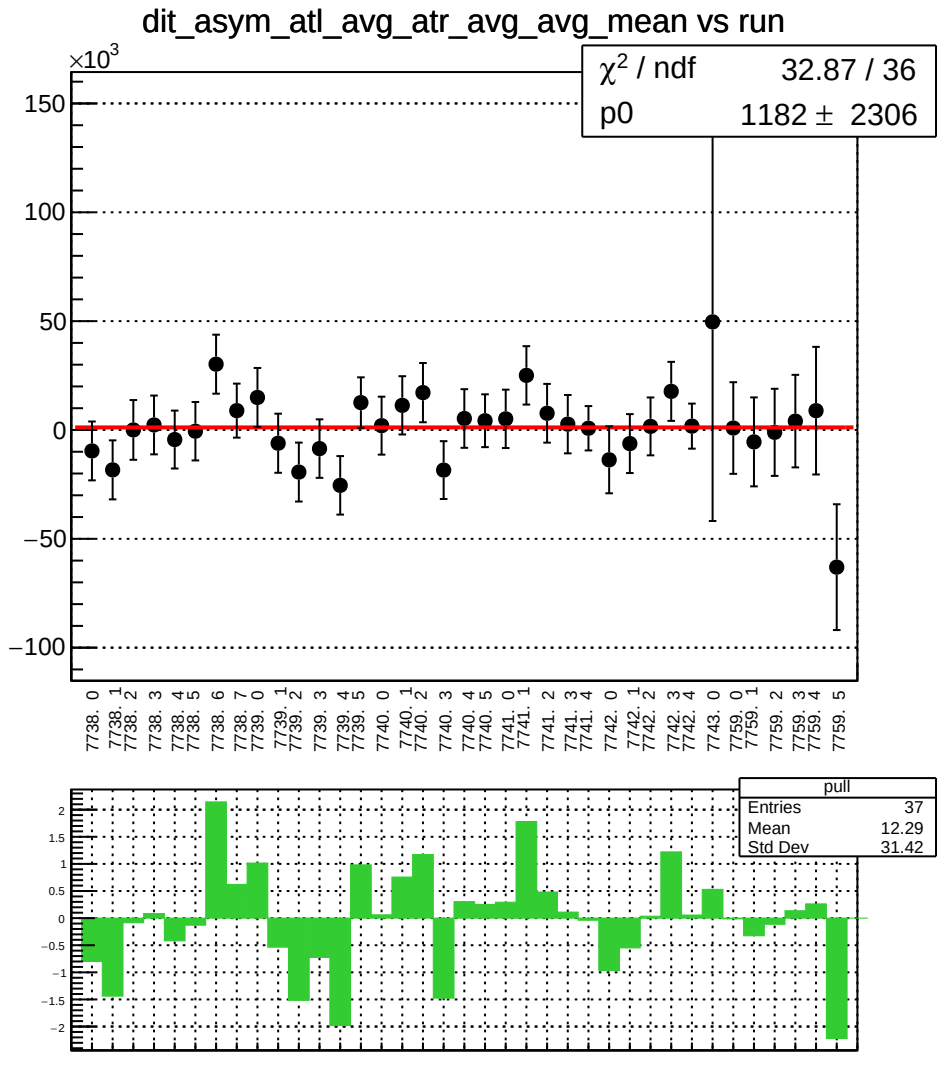

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 39.65 / 36
p0 476.1± 1.162e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −442.1
Std Dev 458.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean 0.002013
Std Dev 1.035
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

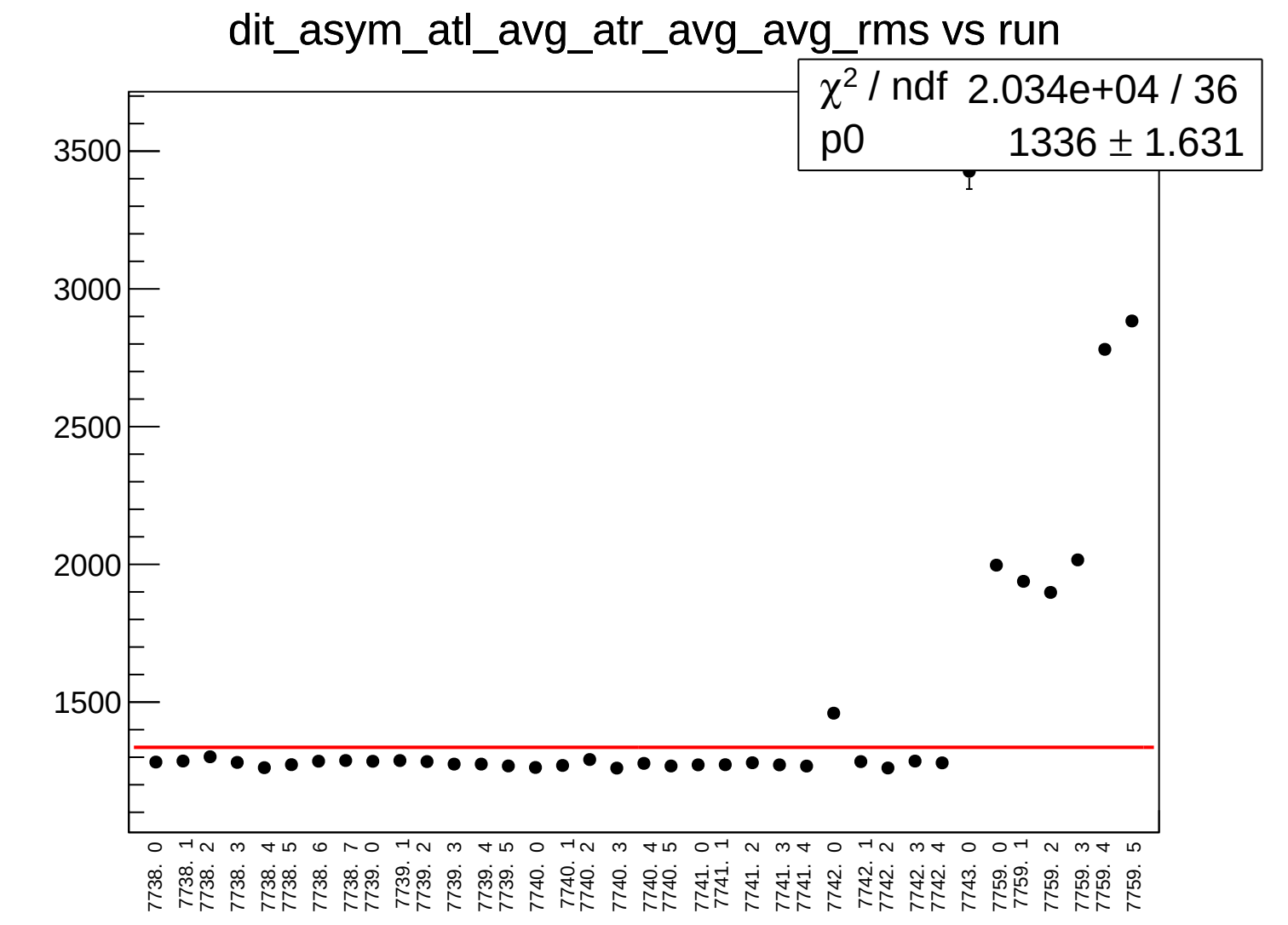

asym_atr_dd_correction_rms vs run
χ² / ndf 5.054e+04 / 36
p0 6578 ± 8.216
9000
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

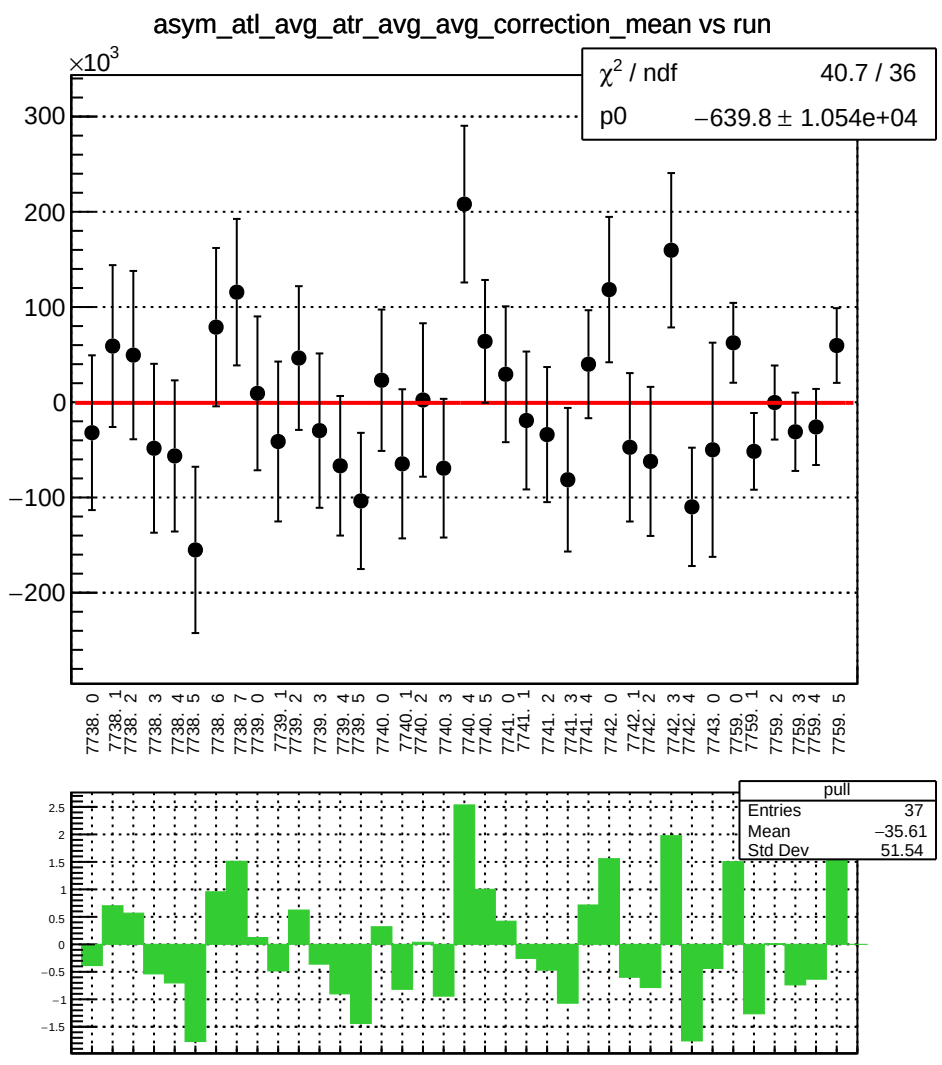

asym_atr_dd_mean vs run
×10^3
χ² / ndf 35.92 / 36
p0 3568 ± 1.327e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −135.2
Std Dev 151.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

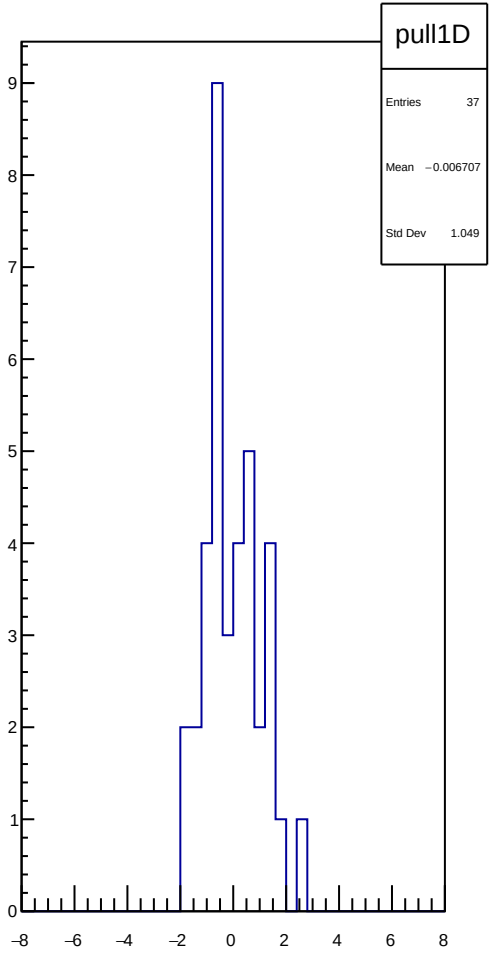

pull1D
Entries 37
Mean −0.005243
Std Dev 0.9853
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

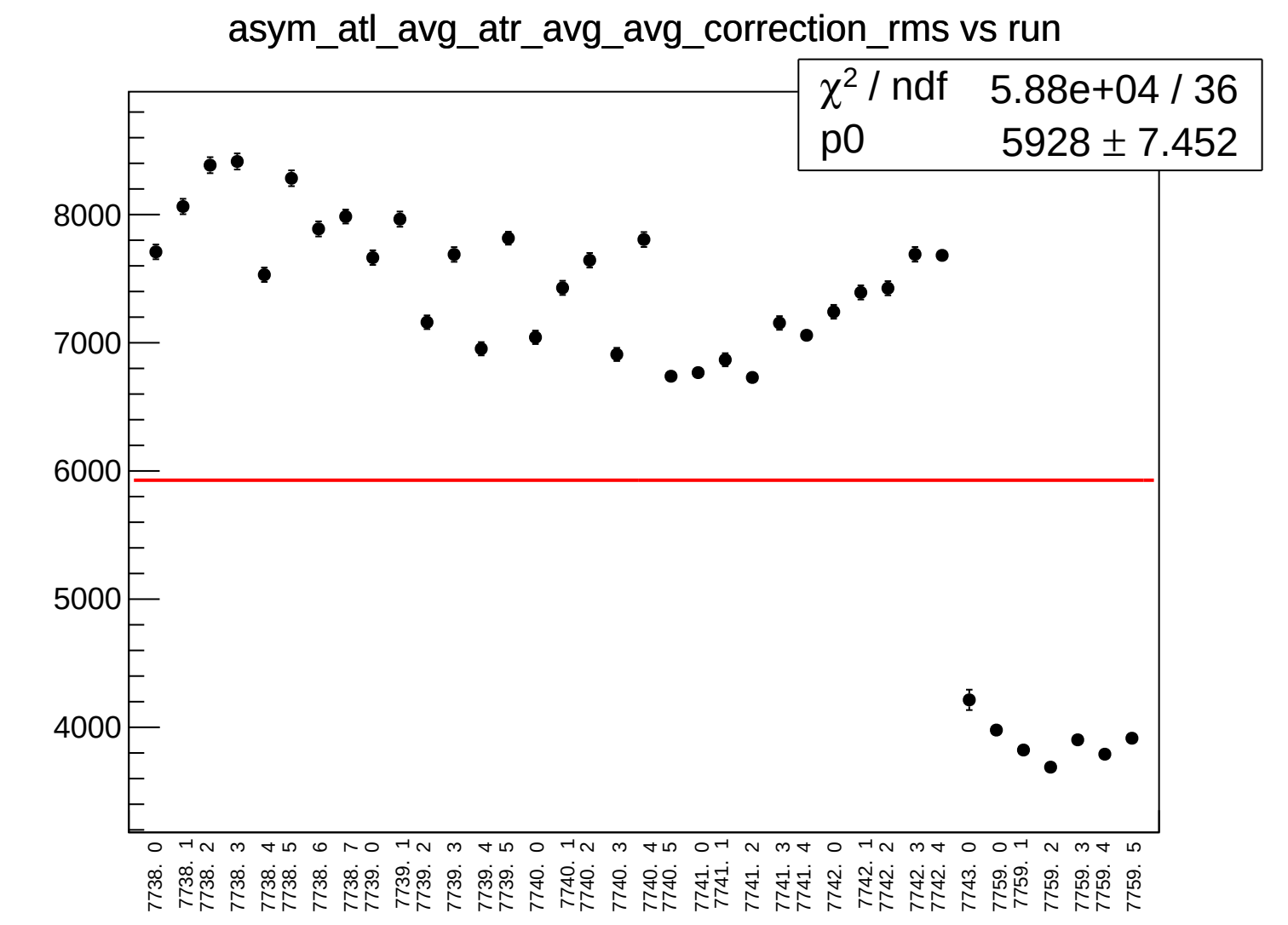

asym_atr_dd_rms vs run
χ^2 / ndf 6687 / 36
p0 7765 ± 9.382
9000
8500
8000
7500
7000
6500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

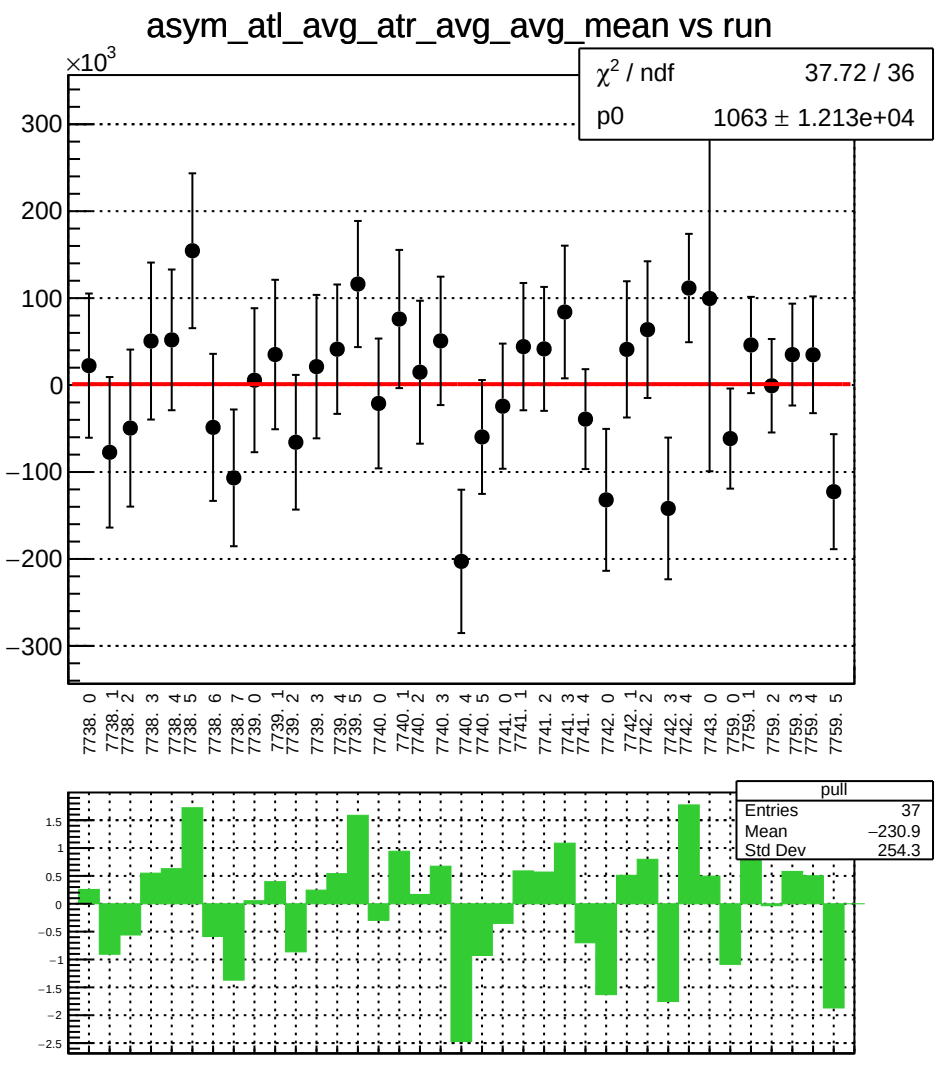

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 32.87 / 36
p0 1182 ± 2306
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 12.29
Std Dev 31.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02783
Std Dev 0.9421
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

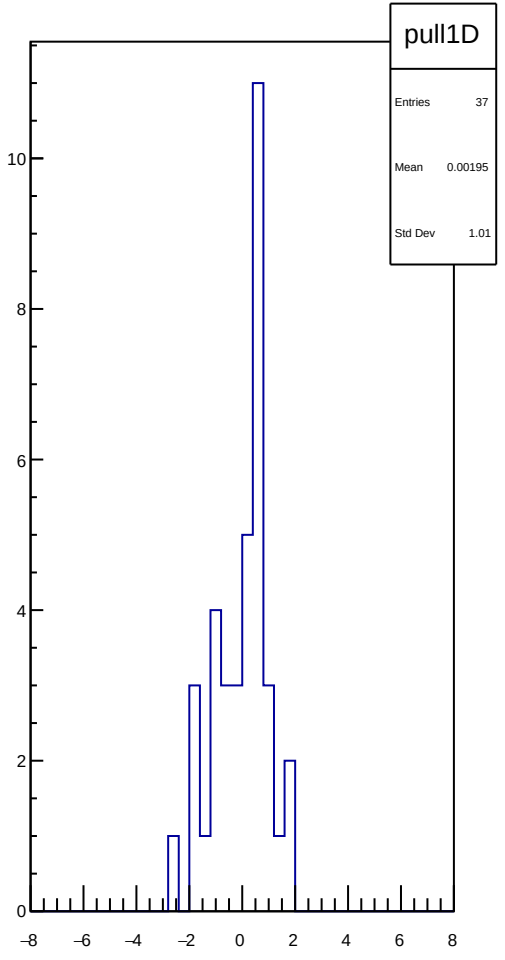

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.034e+04 / 36
p0 1336 ± 1.631
3500
3000
2500
2000
1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

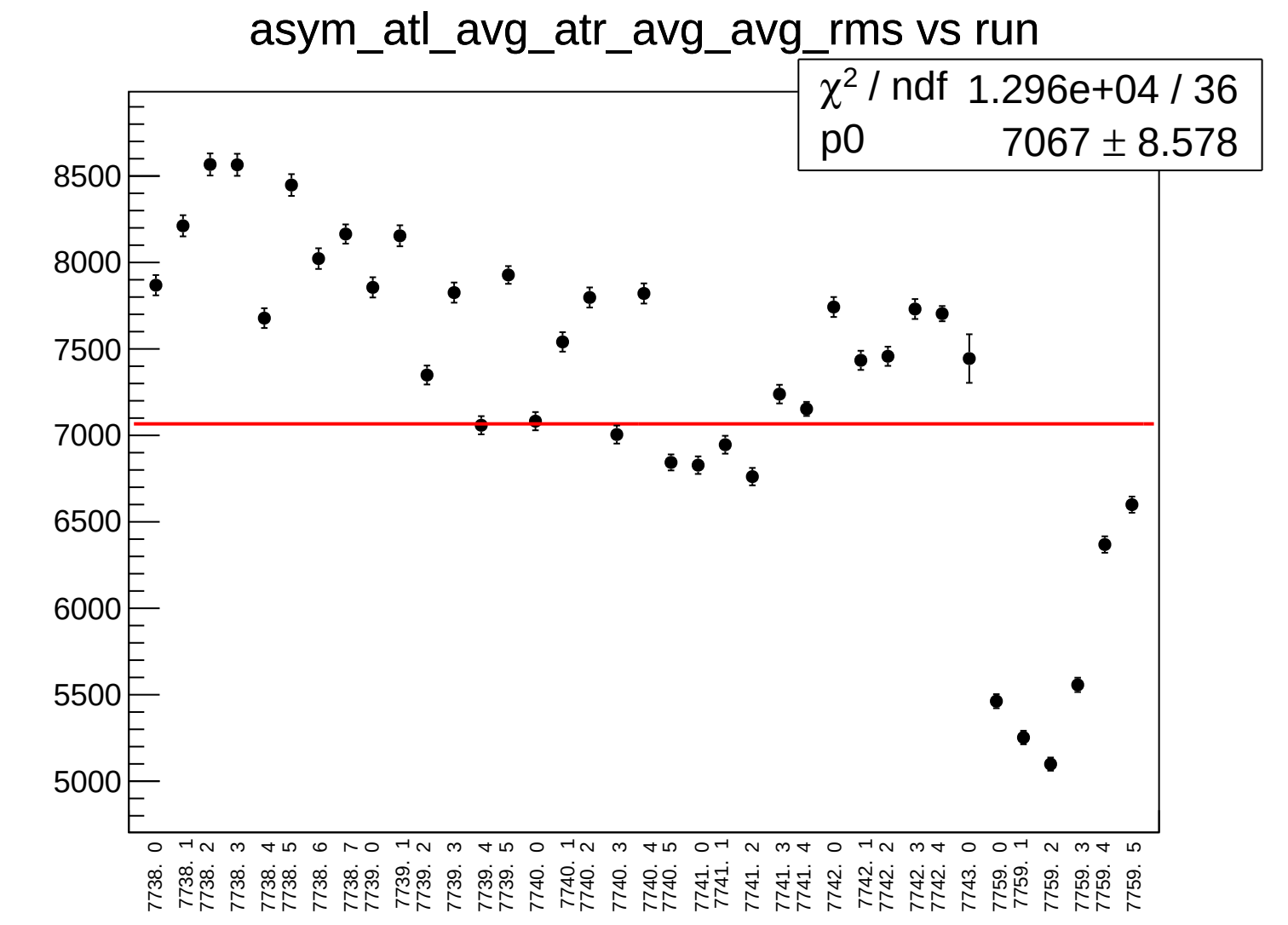

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 40.7 / 36
p0 −639.8 ± 1.054e+04
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −35.61
Std Dev 51.54
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

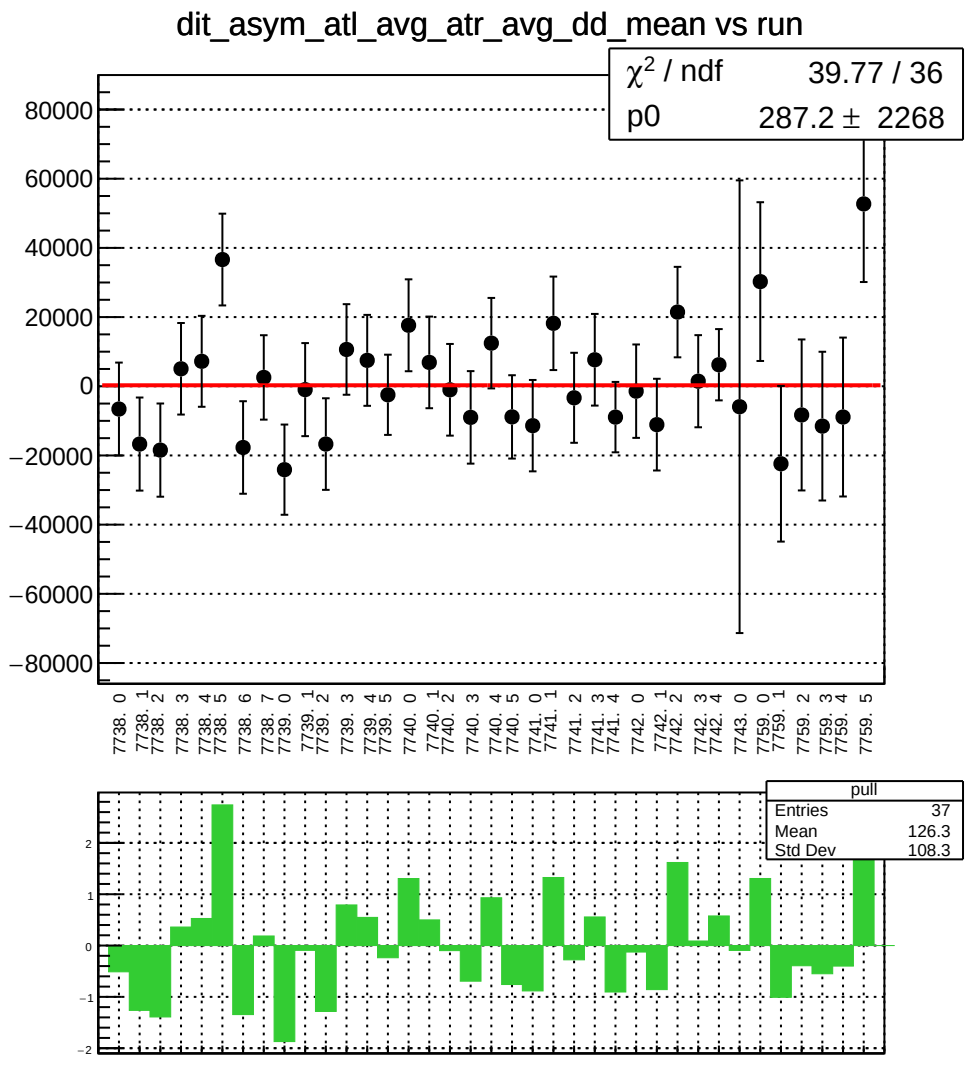

pull1D
Entries 37
Mean −0.006707
Std Dev 1.049
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

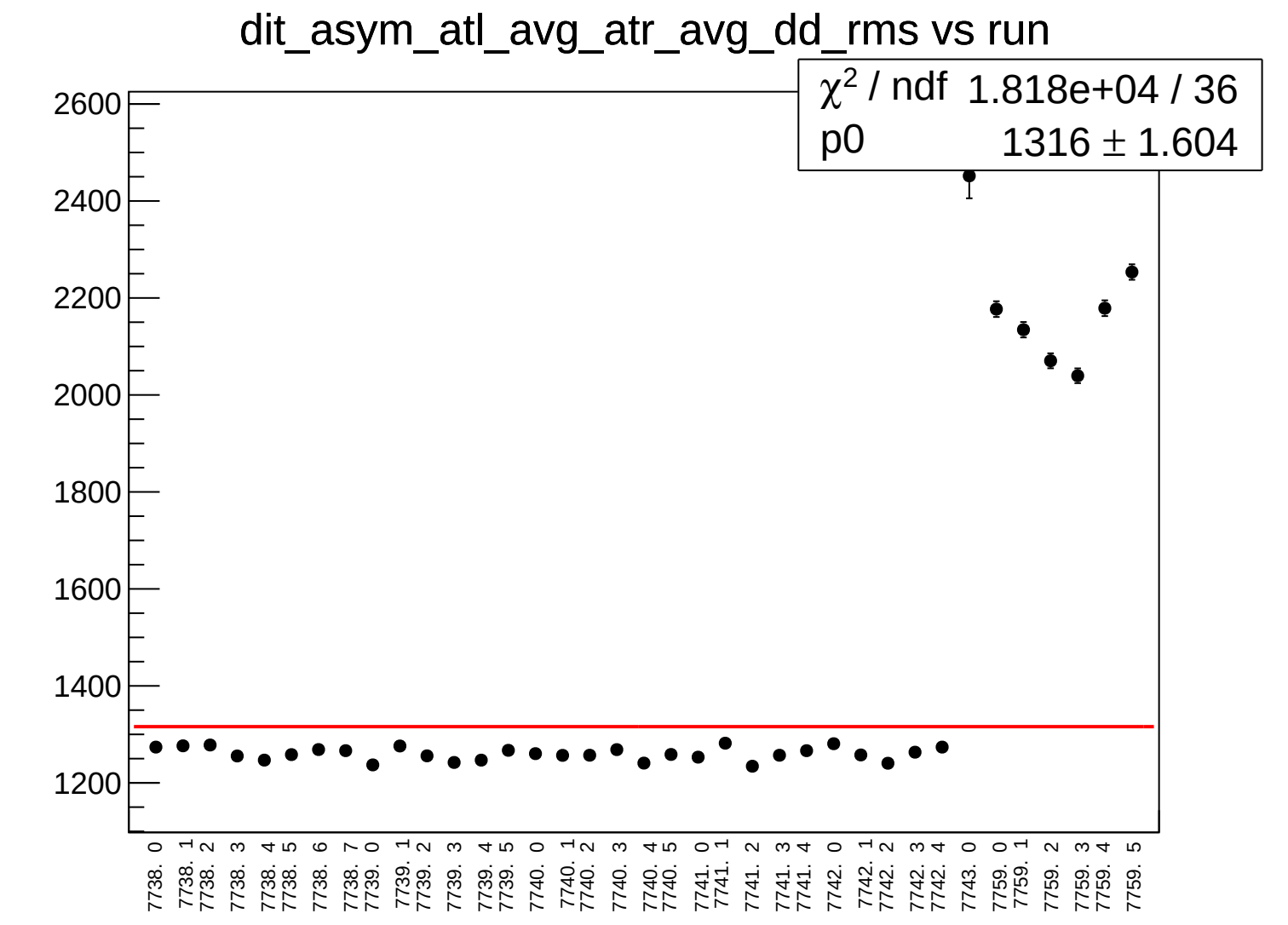

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 5.88e+04 / 36
p0 5928 ± 7.452
8000
7000
6000
5000
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

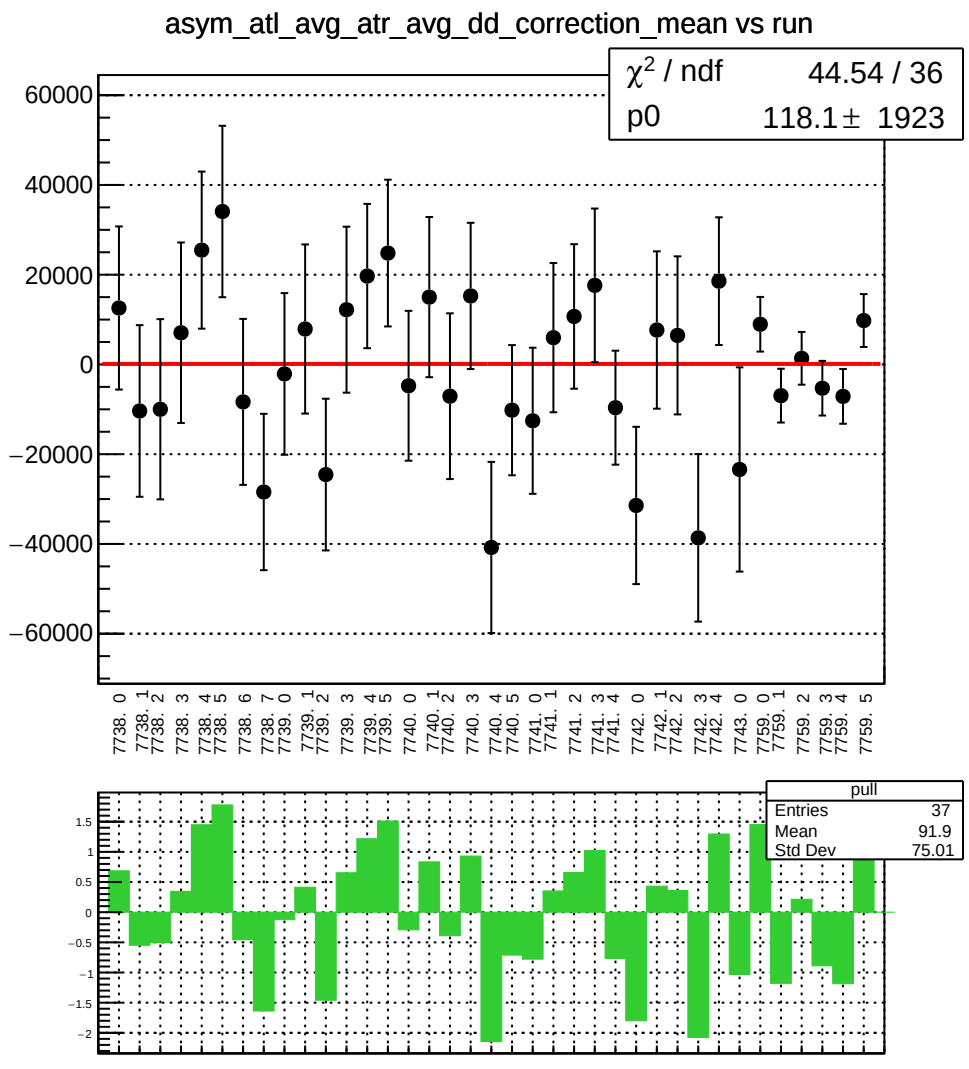

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 37.72 / 36
p0 1063 ± 1.213e+04
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −230.9
Std Dev 254.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

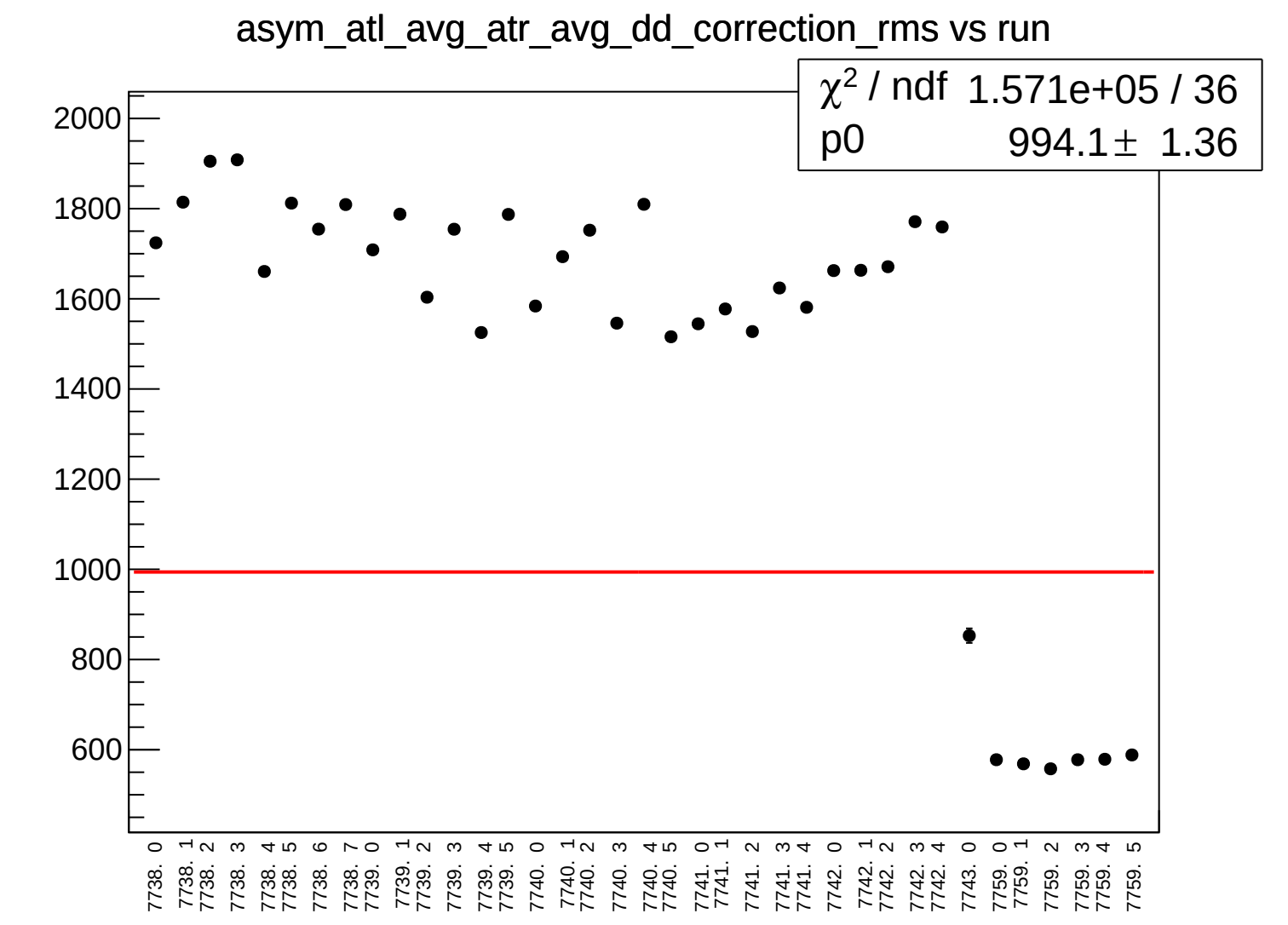

pull1D
Entries 37
Mean 0.00195
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

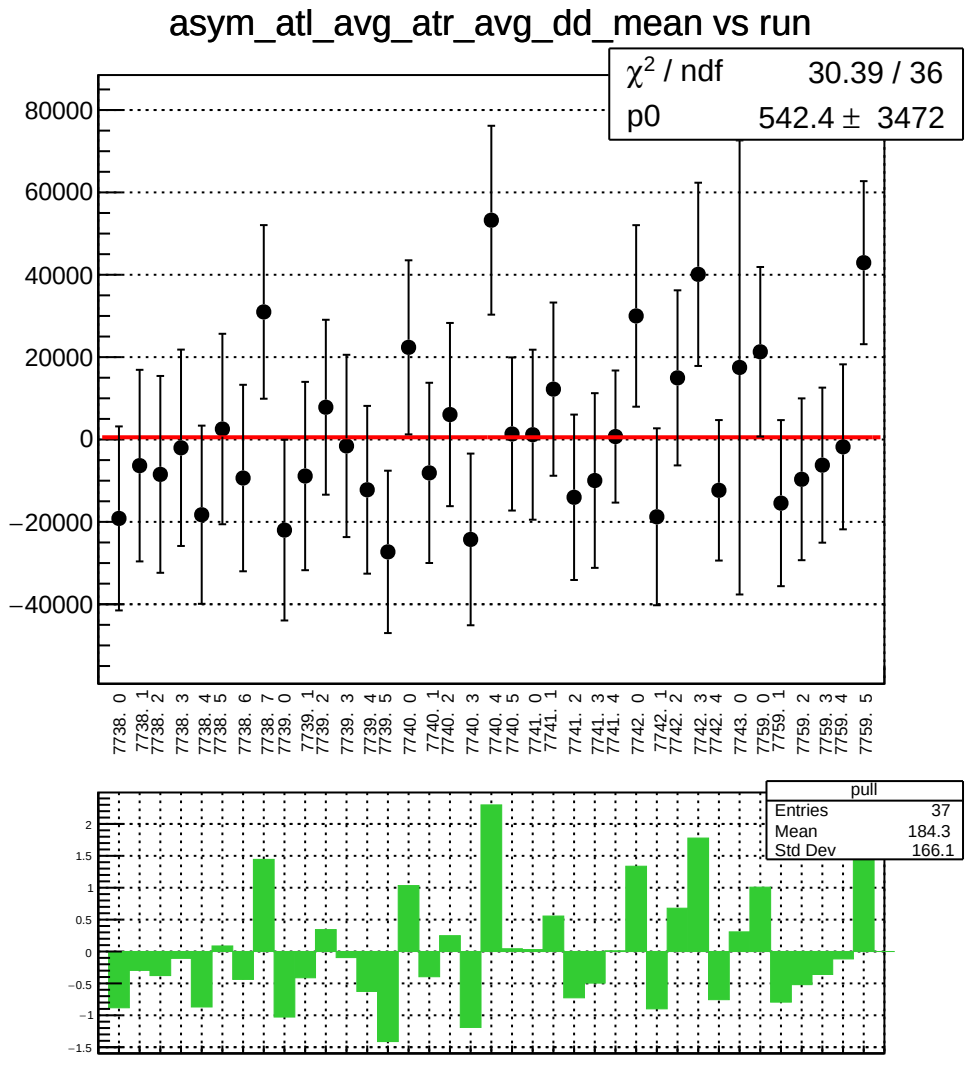

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.296e+04 / 36
p0 7067 ± 8.578
8500
8000
7500
7000
6500
6000
5500
5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

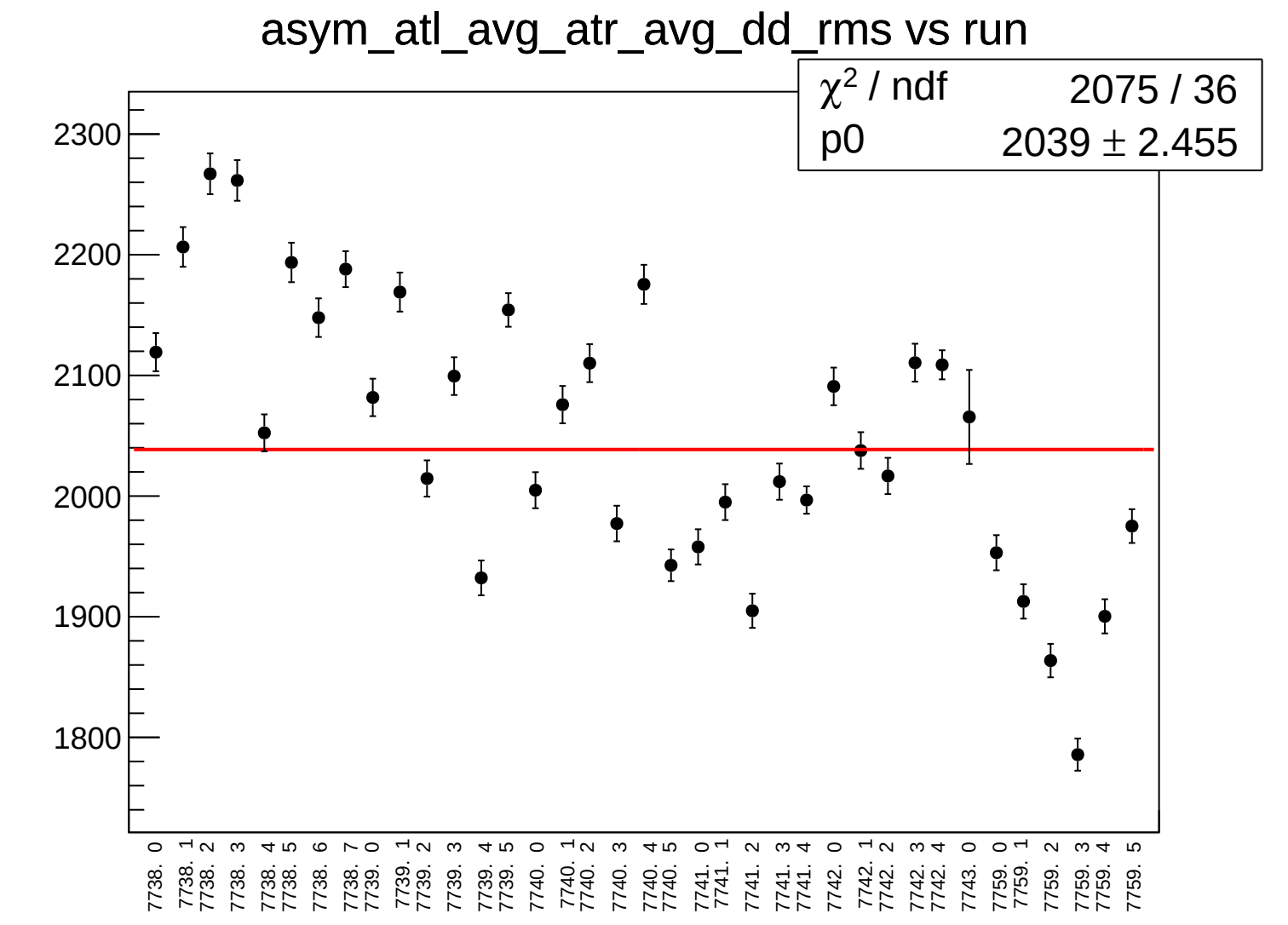

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 39.77 / 36
p0 287.2 ± 2268
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 126.3
Std Dev 108.3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.01723
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

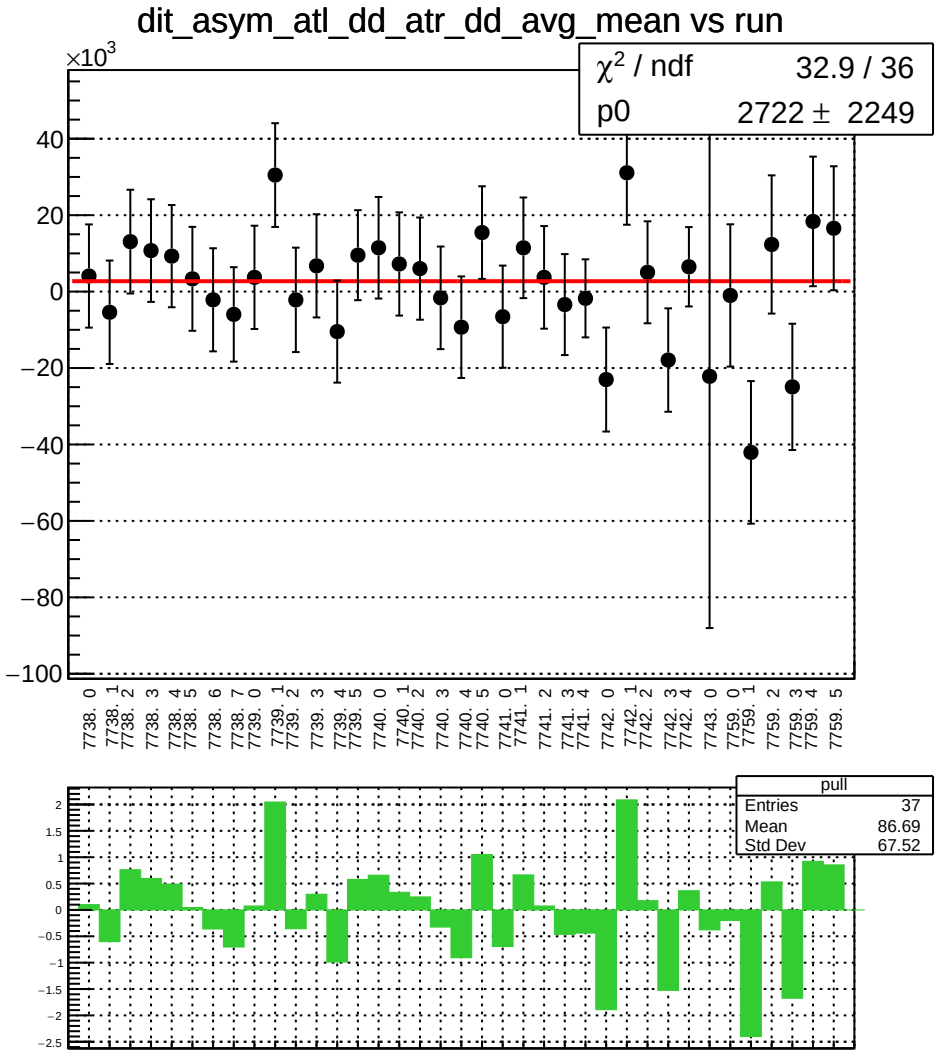

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.818e+04 / 36
p0 1316 ± 1.604
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

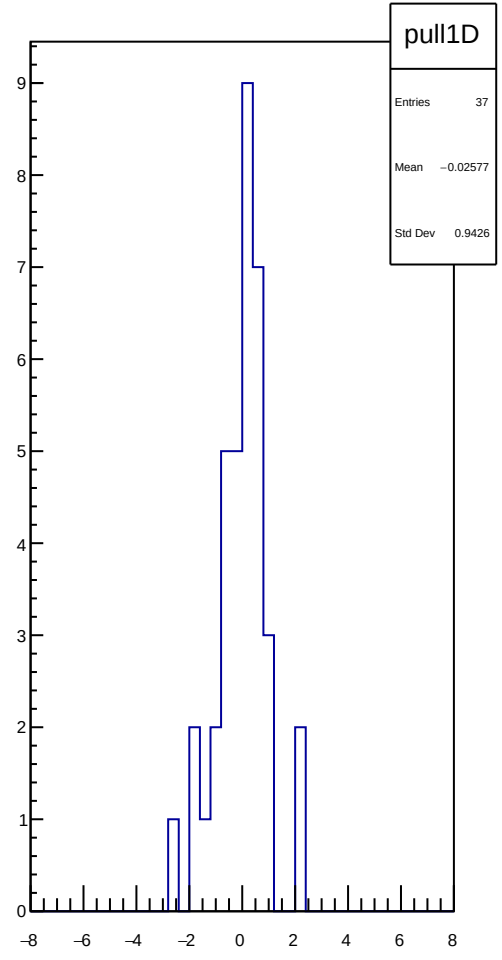

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 44.54 / 36
p0 118.1 ± 1923
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 91.9
Std Dev 75.01
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01988
Std Dev 1.097
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

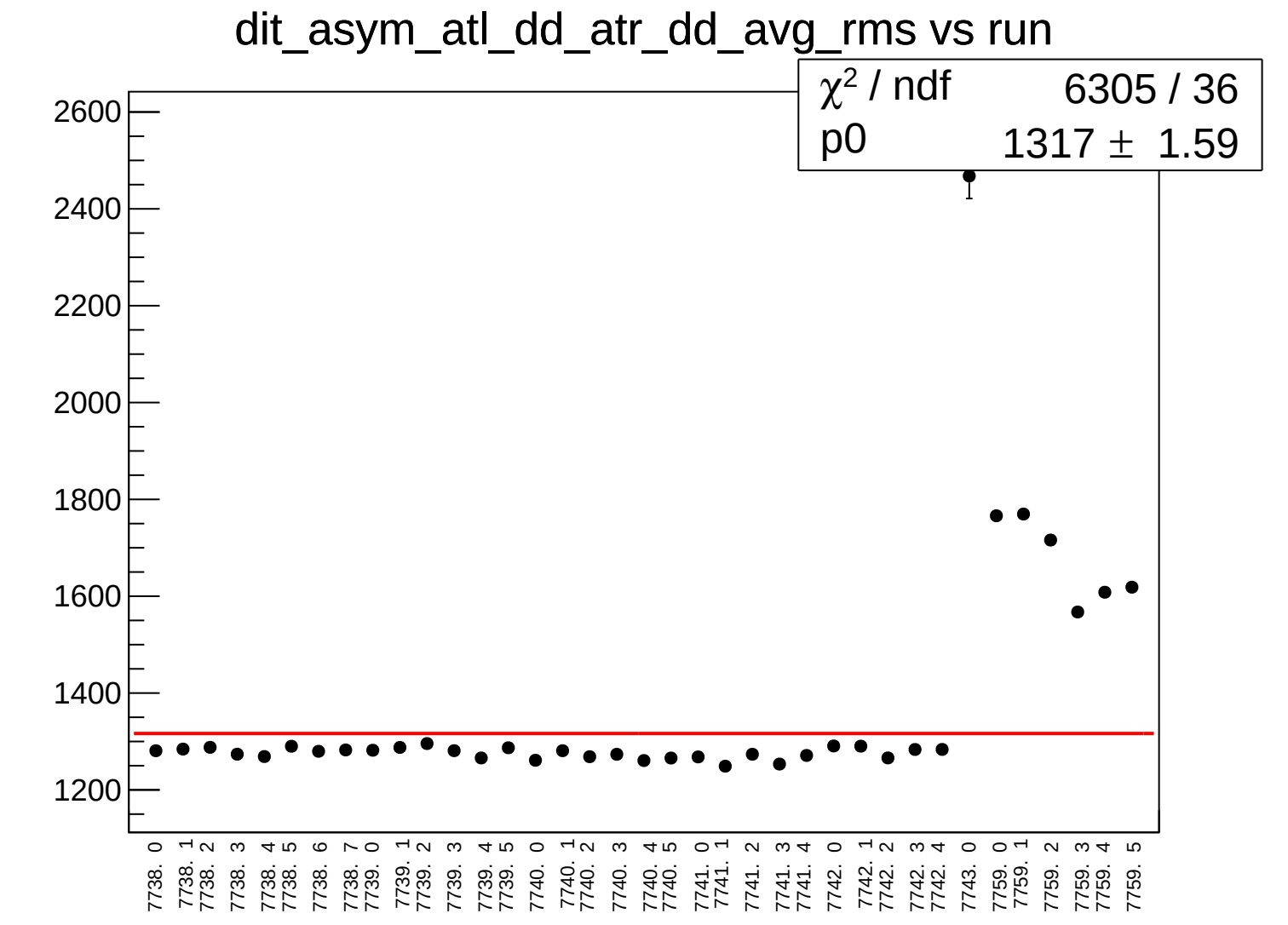

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 1.571e+05 / 36
p0 994.1 ± 1.36
2000
1800
1600
1400
1200
1000
800
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

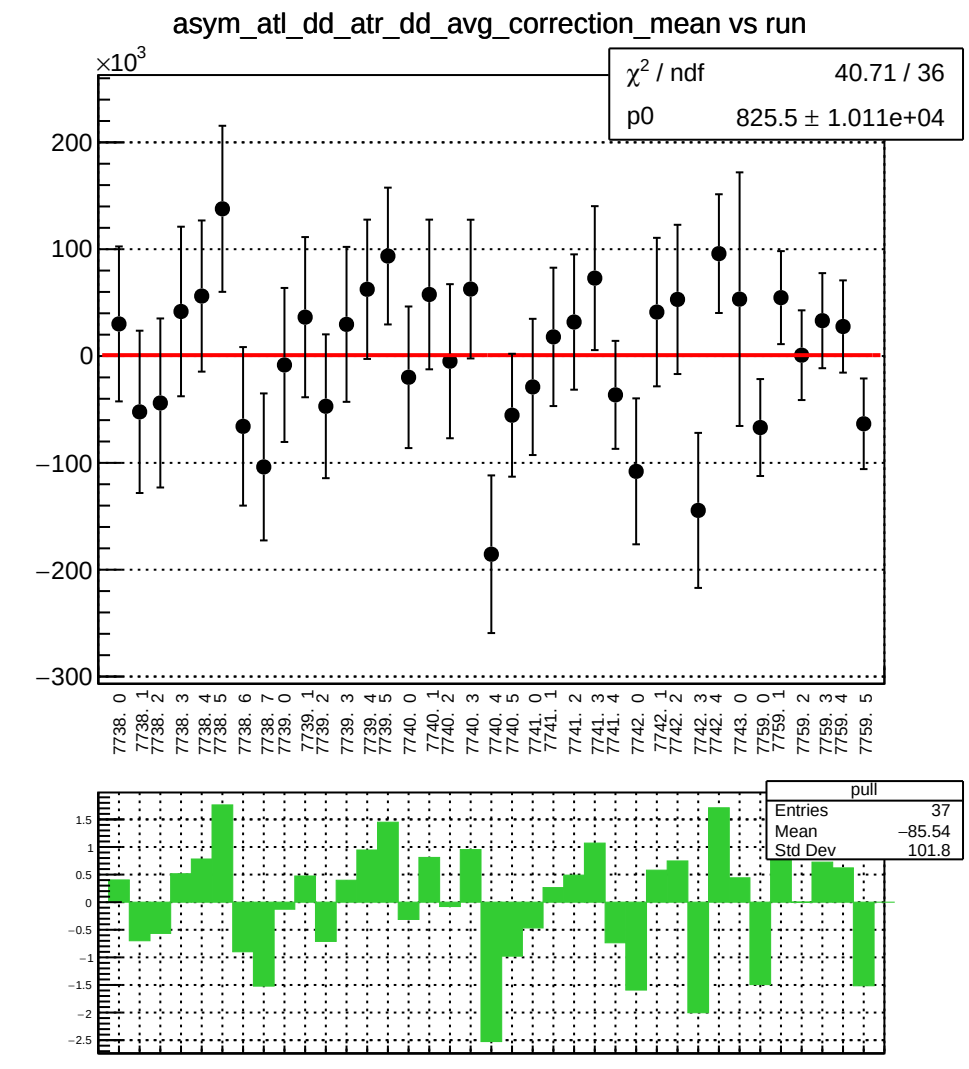

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 30.39 / 36
p0 542.4 ± 3472
80000
60000
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 184.3
Std Dev 166.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01505
Std Dev 0.9062
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

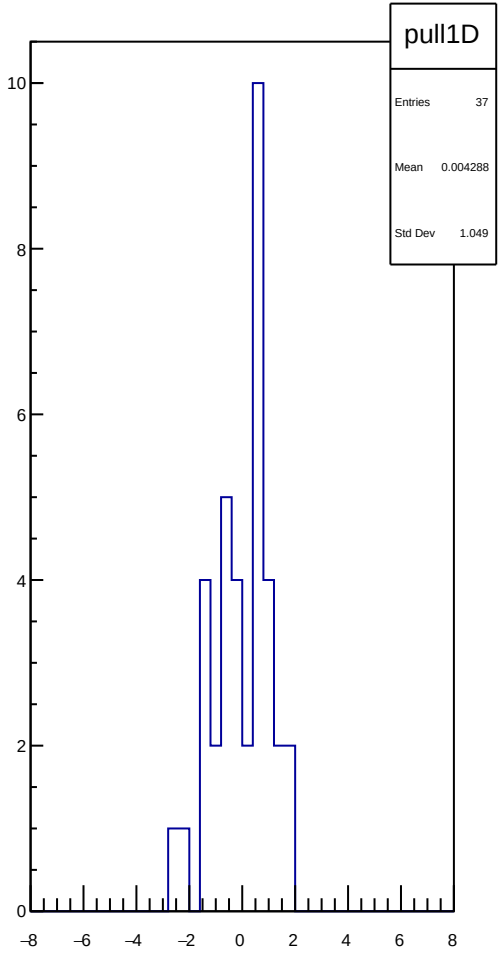

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2075 / 36
p0 2039 ± 2.455
2300
2200
2100
2000
1900
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

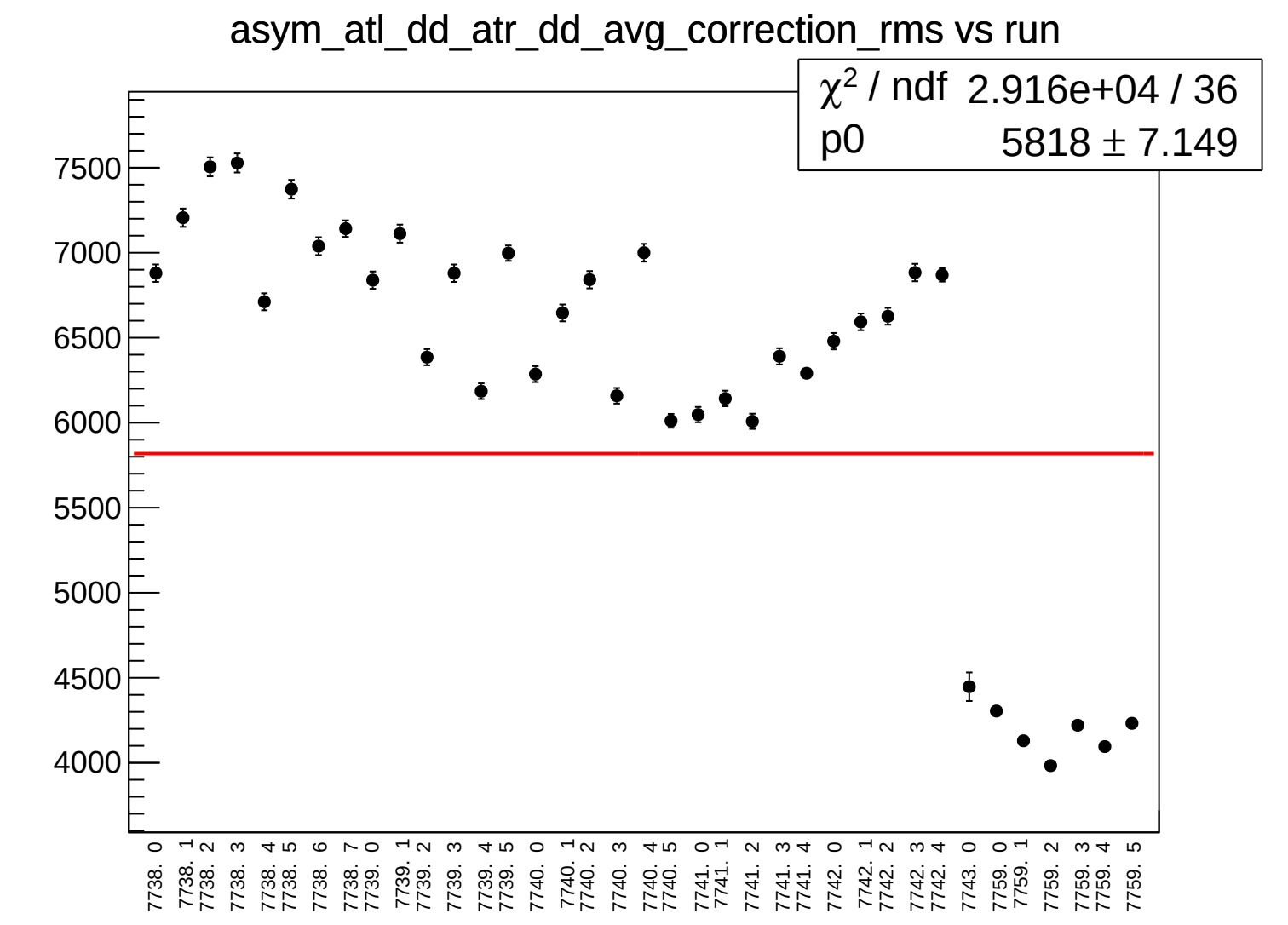

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 32.9 / 36
p0 2722 ± 2249
×10³
pull
Entries 37
Mean 86.69
Std Dev 67.52

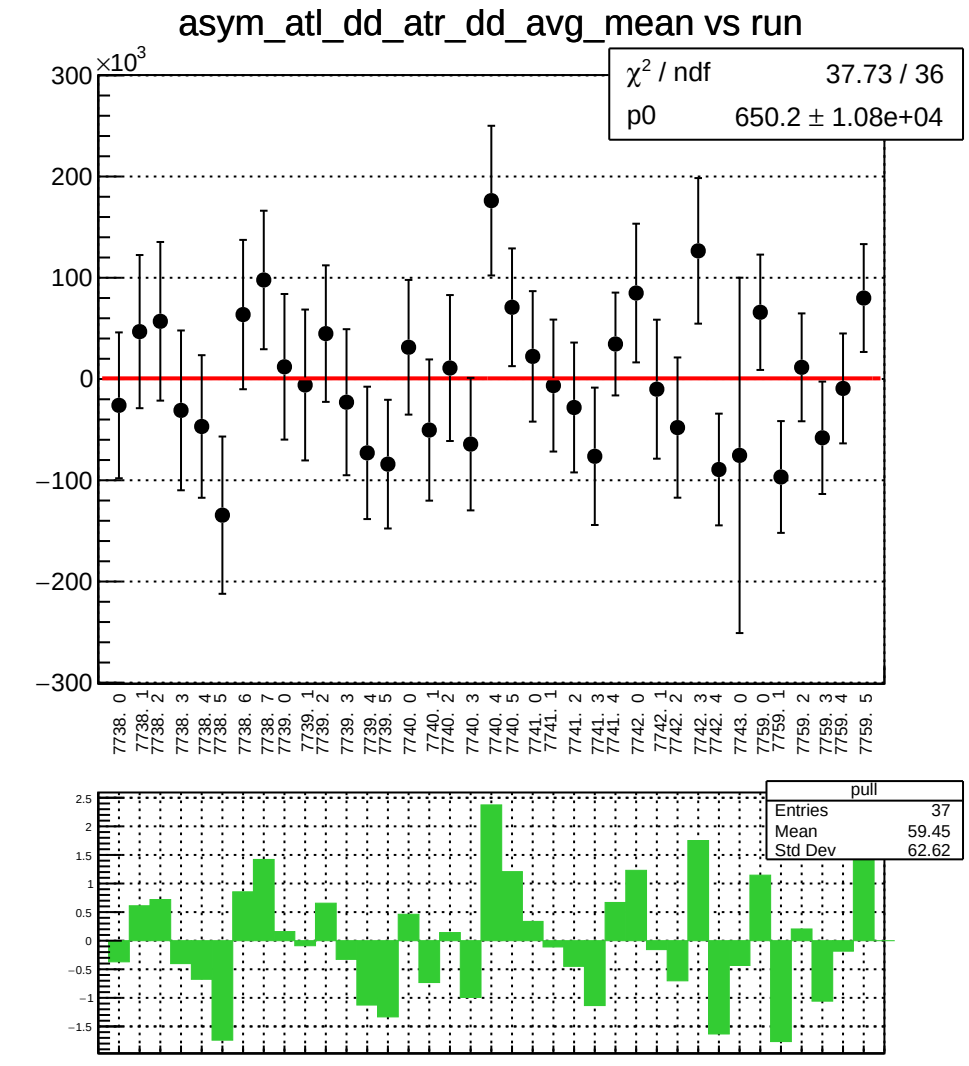

pull1D
Entries 37
Mean −0.02577
Std Dev 0.9426

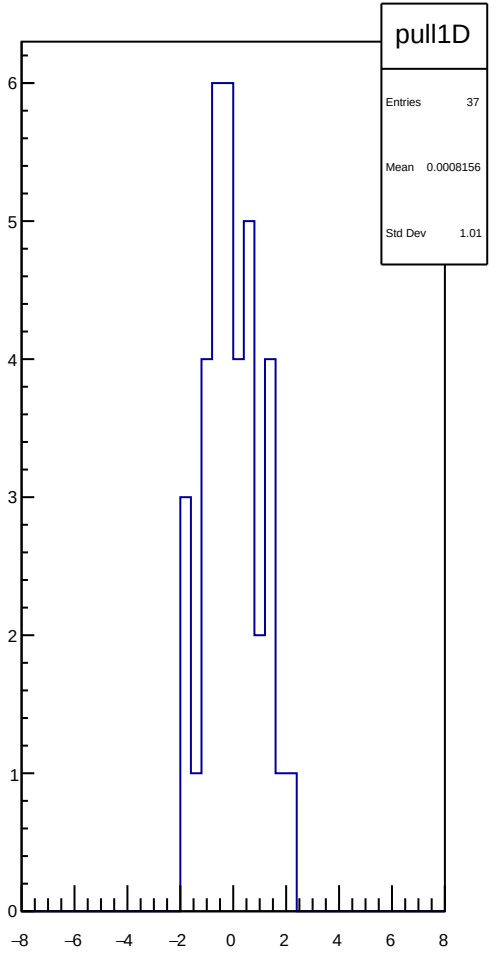

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6305 / 36
p0 1317 ± 1.59
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

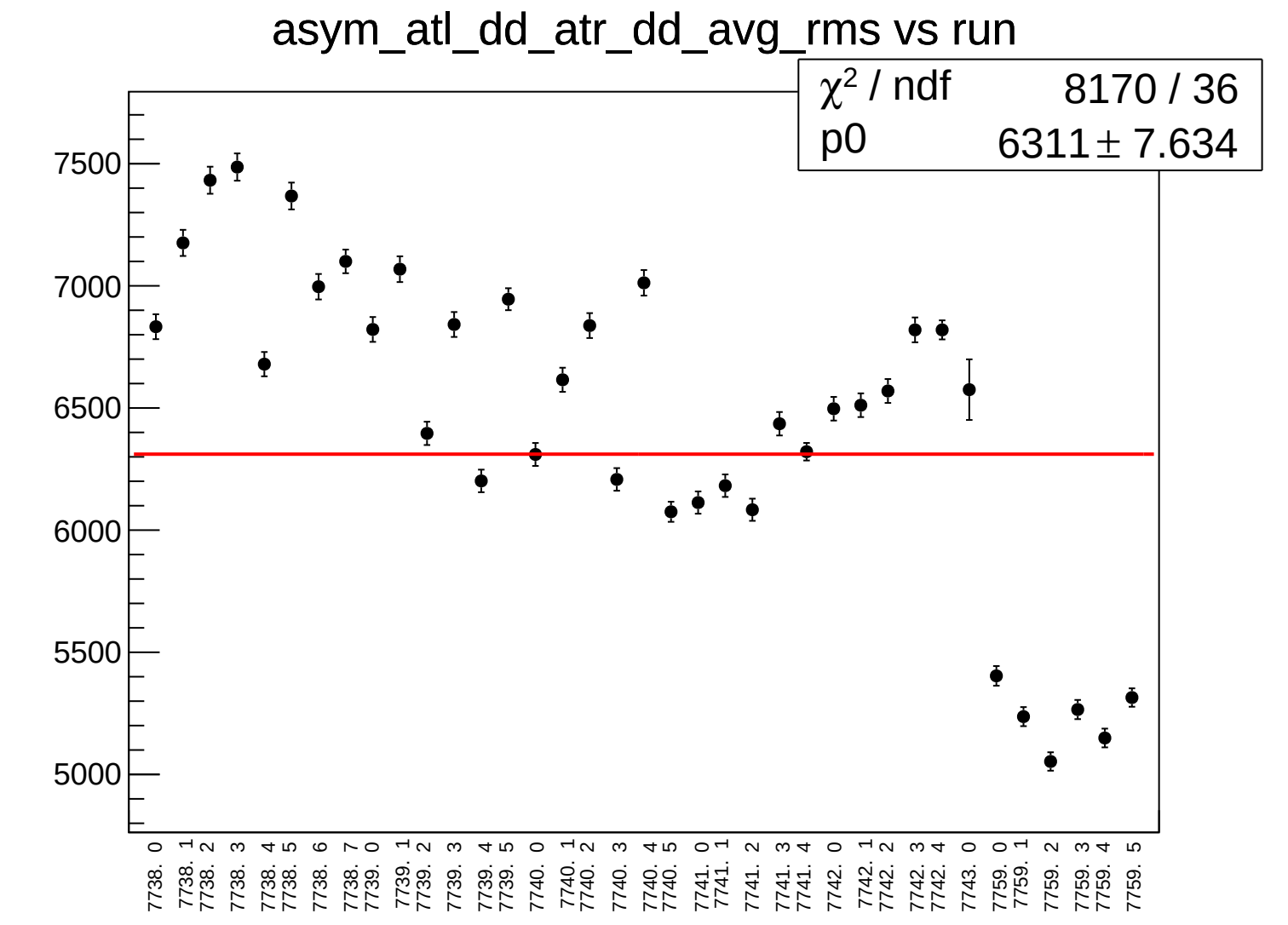

asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 40.71 / 36
p0 825.5 ± 1.011e+04
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −85.54
Std Dev 101.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

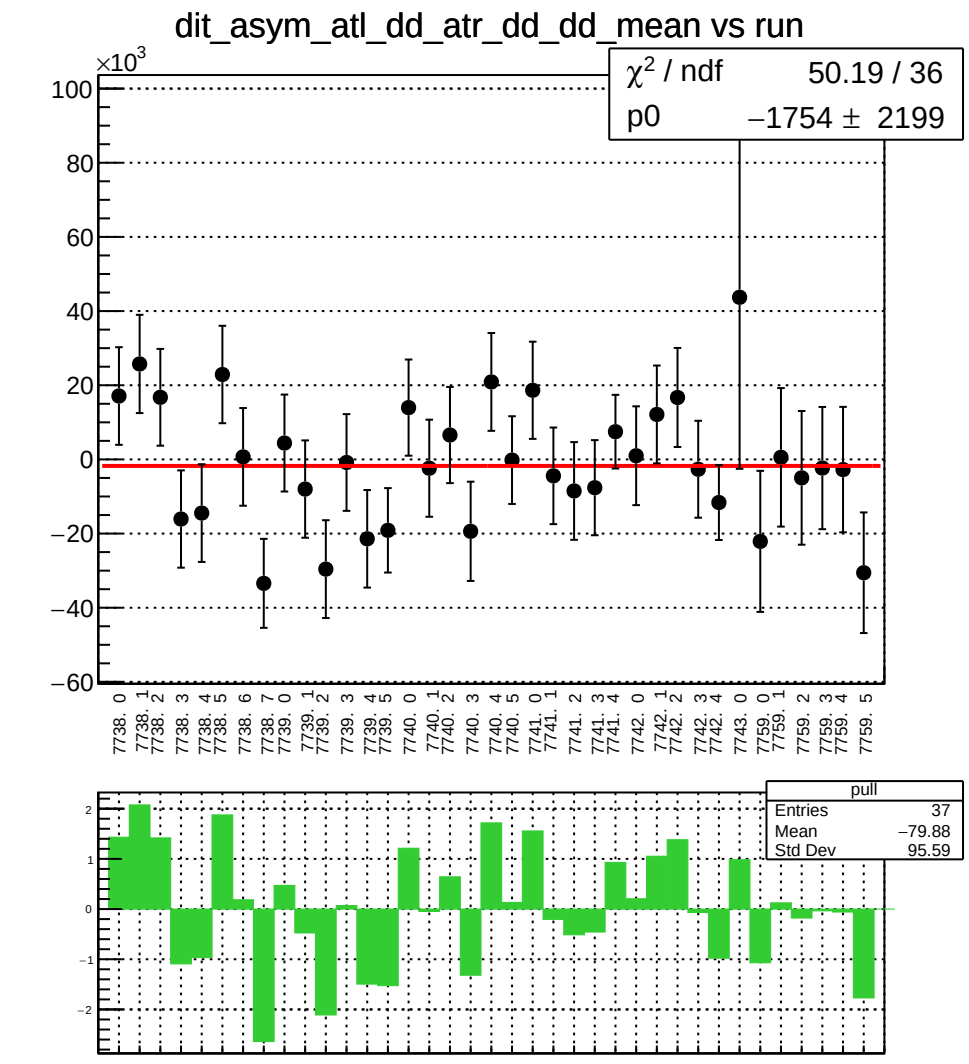

pull1D
Entries 37
Mean 0.004288
Std Dev 1.049
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

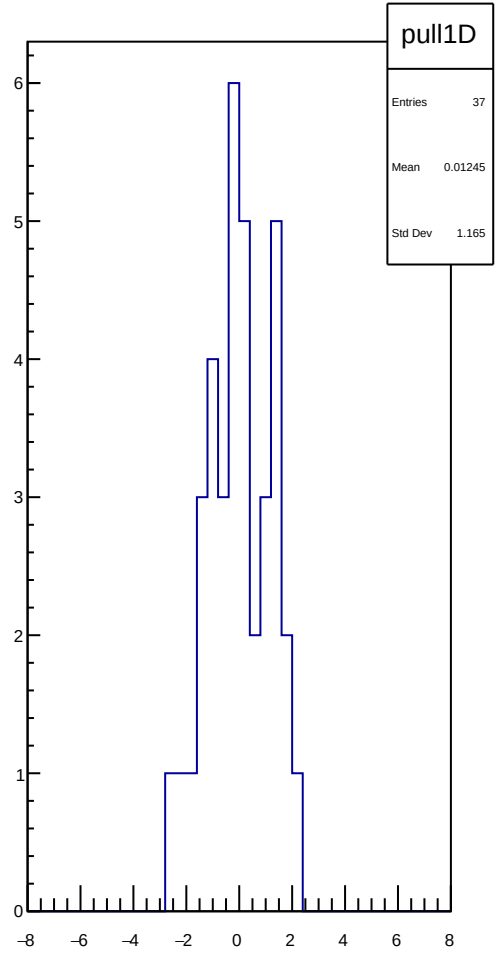

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 2.916e+04 / 36
p0 5818 ± 7.149
7500
7000
6500
6000
5500
5000
4500
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

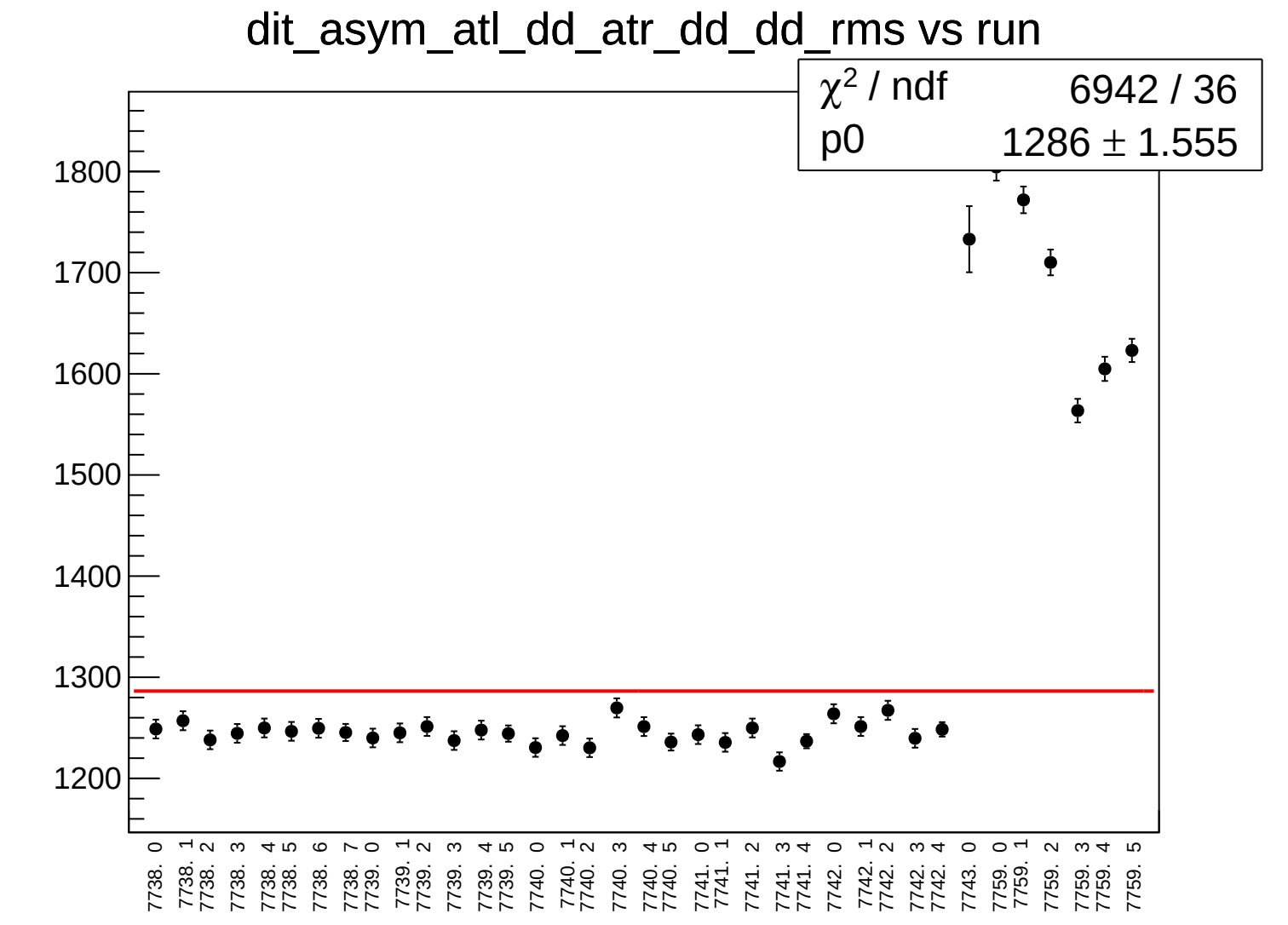

asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 37.73 / 36
p0 650.2 ± 1.08e+04
×10³
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 59.45
Std Dev 62.62
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

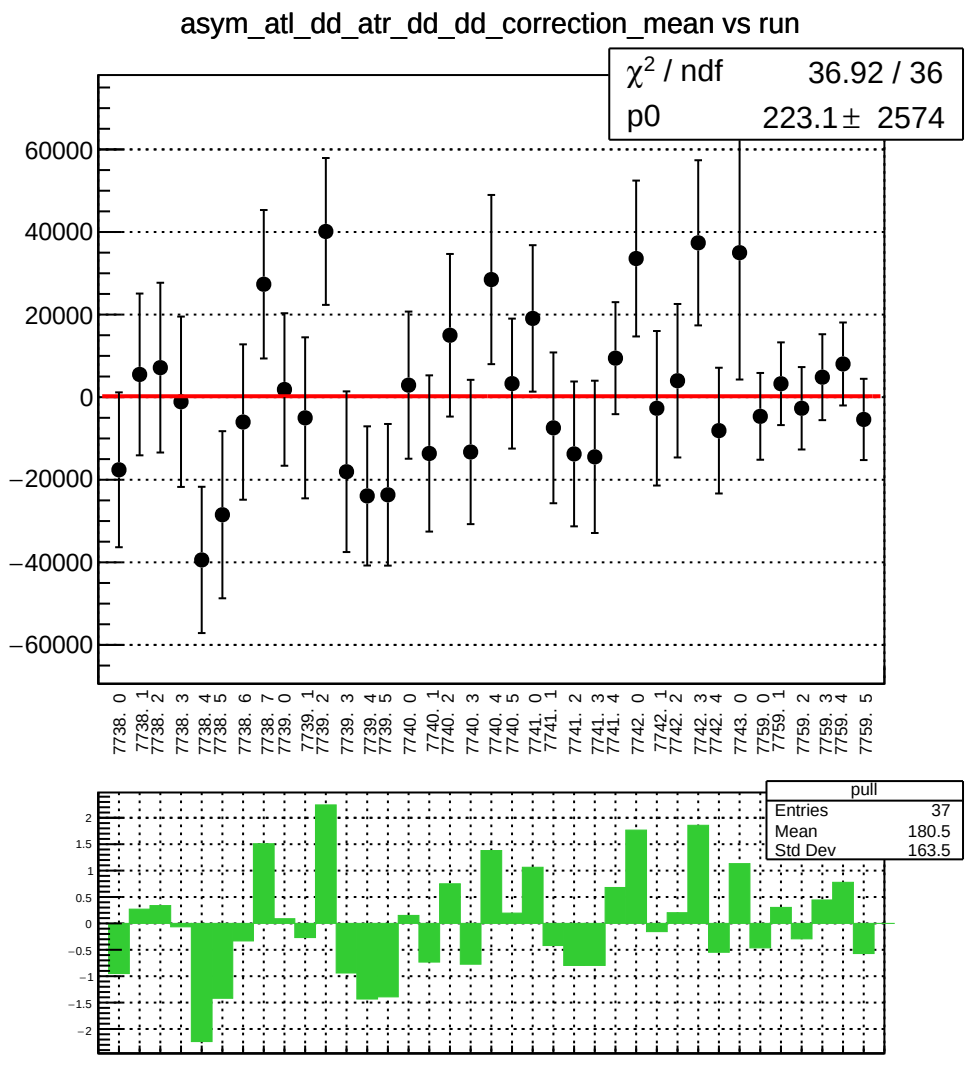

pull1D
Entries 37
Mean 0.0008156
Std Dev 1.01
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

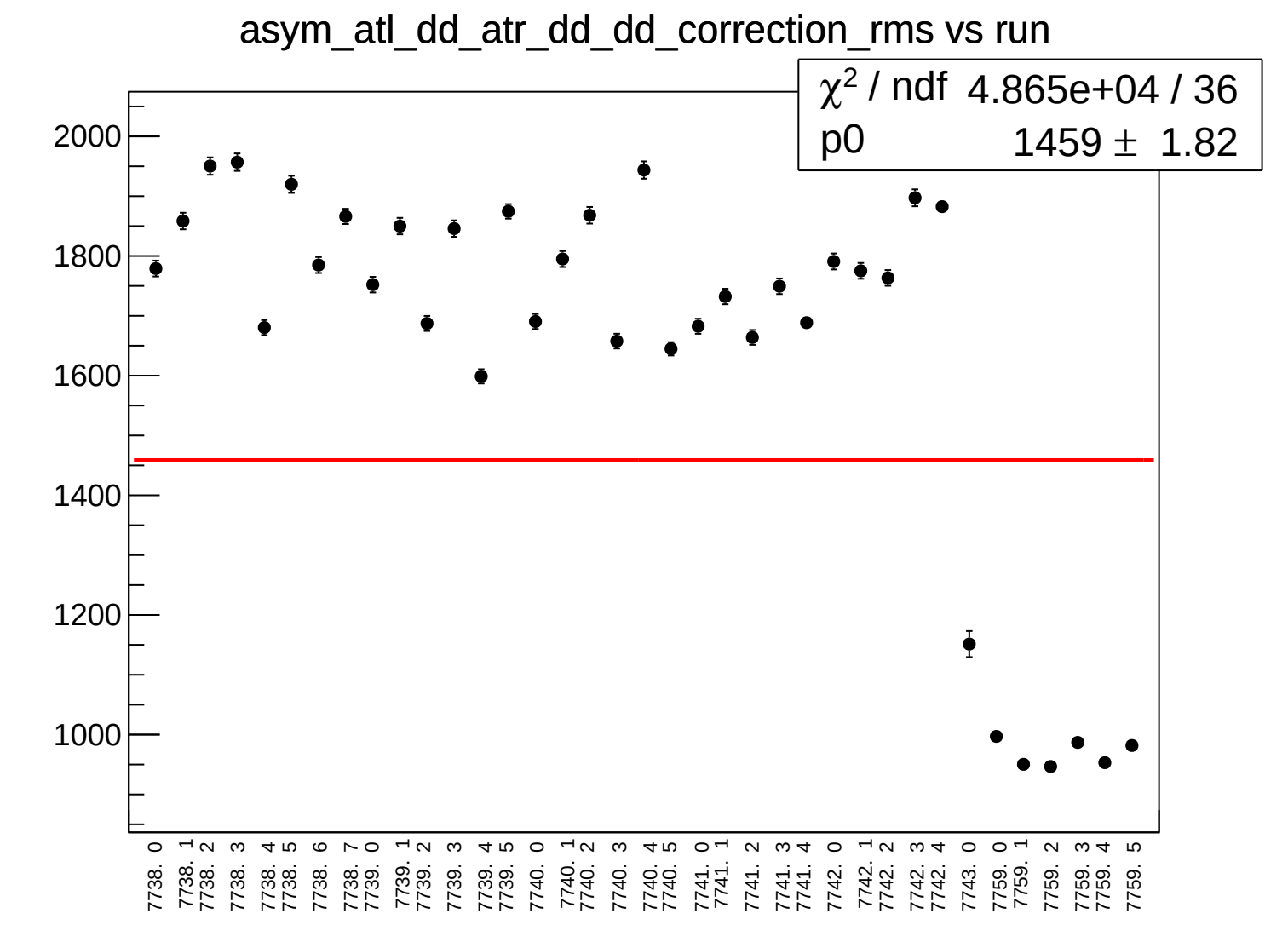

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8170 / 36
p0 6311 ± 7.634
7500
7000
6500
6000
5500
5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

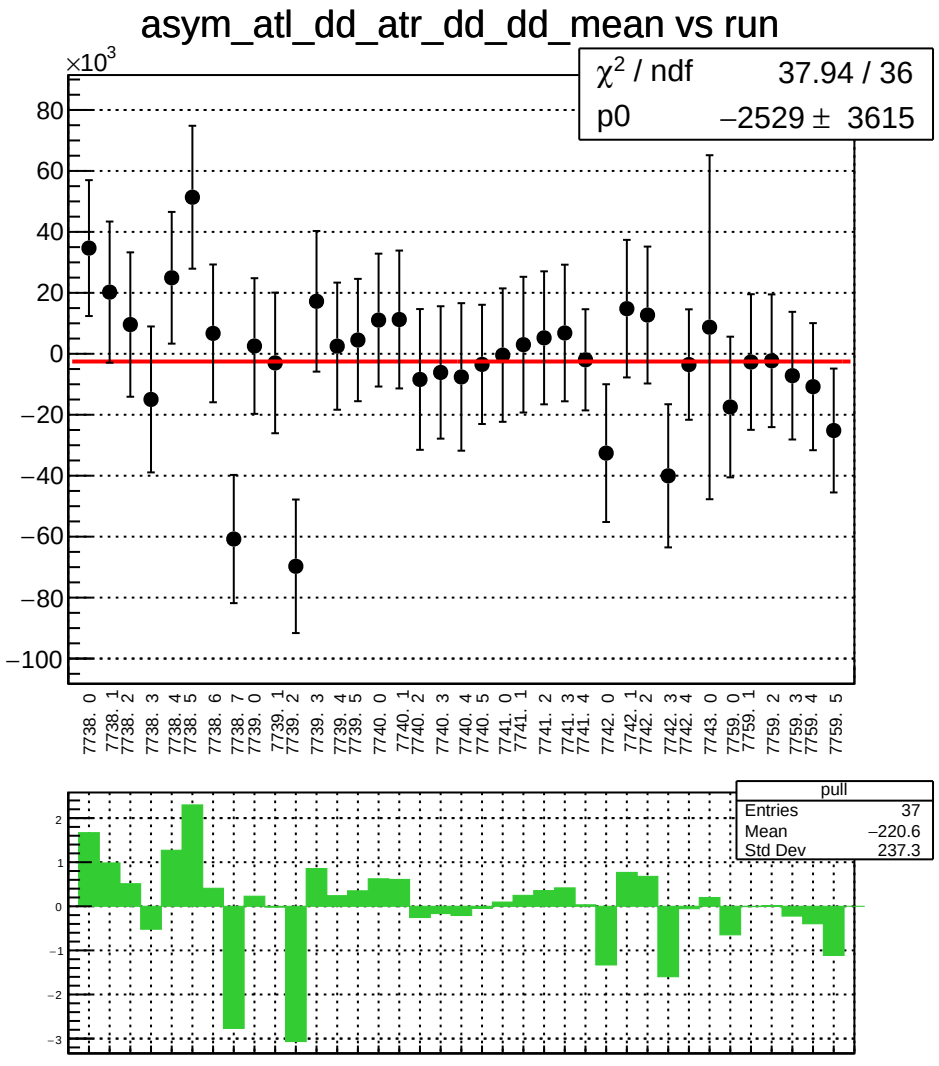

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 50.19 / 36
p0 −1754 ± 2199
pull
Entries 37
Mean −79.88
Std Dev 95.59

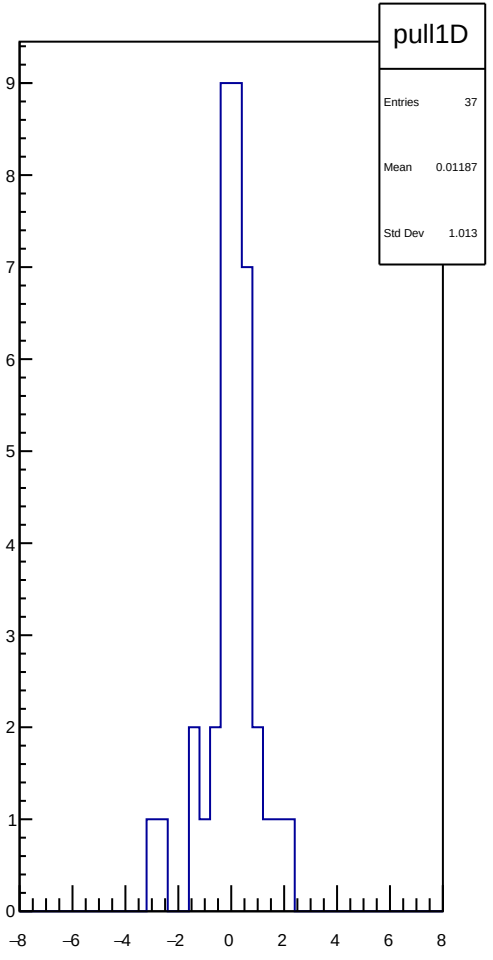

pull1D
Entries 37
Mean 0.01245
Std Dev 1.165

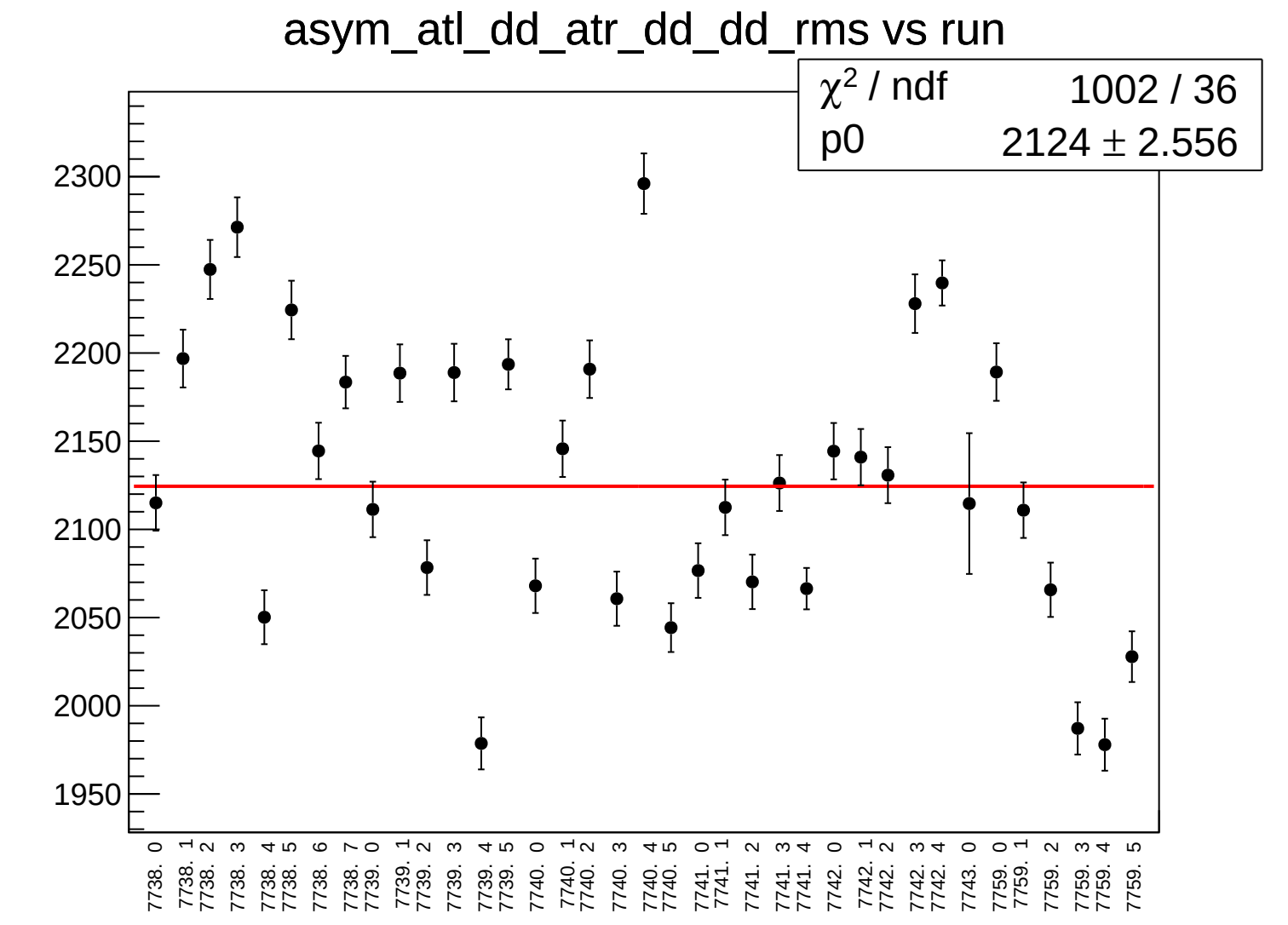

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6942 / 36
p0 1286 ± 1.555
1800
1700
1600
1500
1400
1300
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

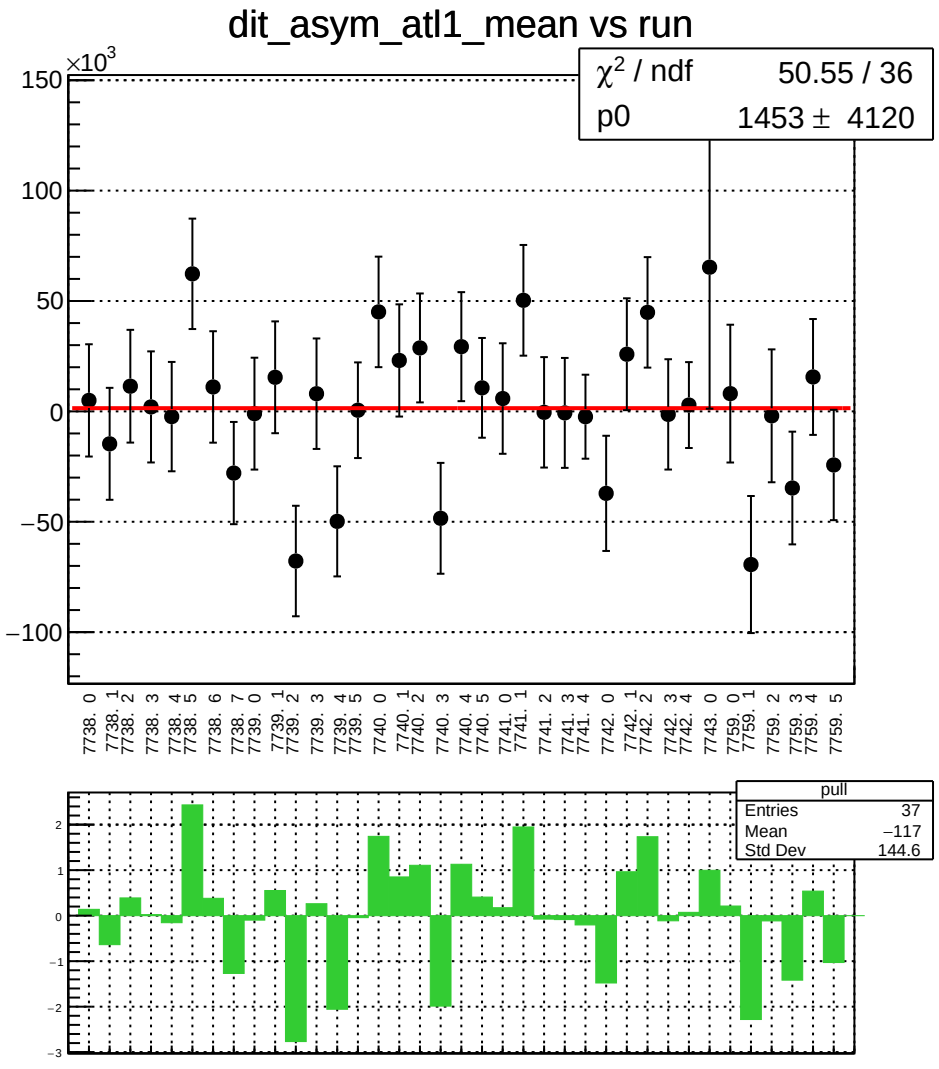

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 36.92 / 36
p0 223.1± 2574
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 180.5
Std Dev 163.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01547
Std Dev 0.9988
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

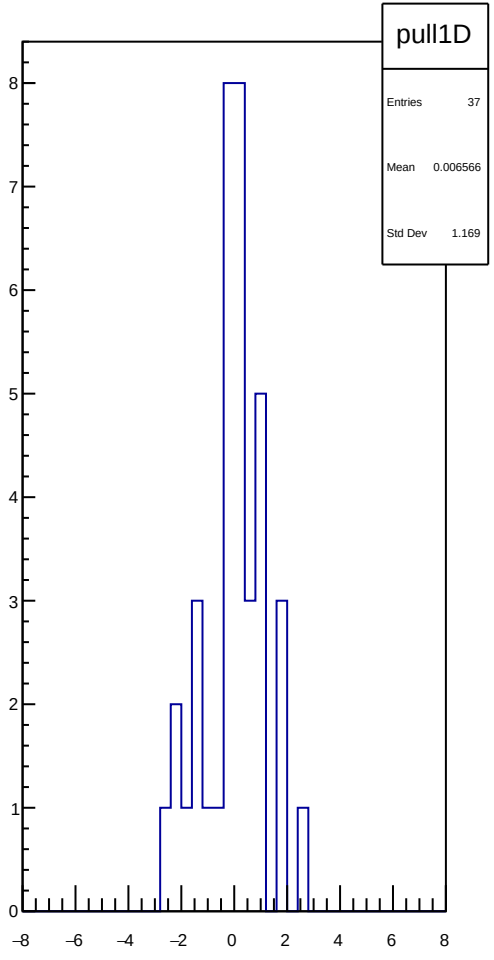

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 4.865e+04 / 36
p0 1459 ± 1.82
2000
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

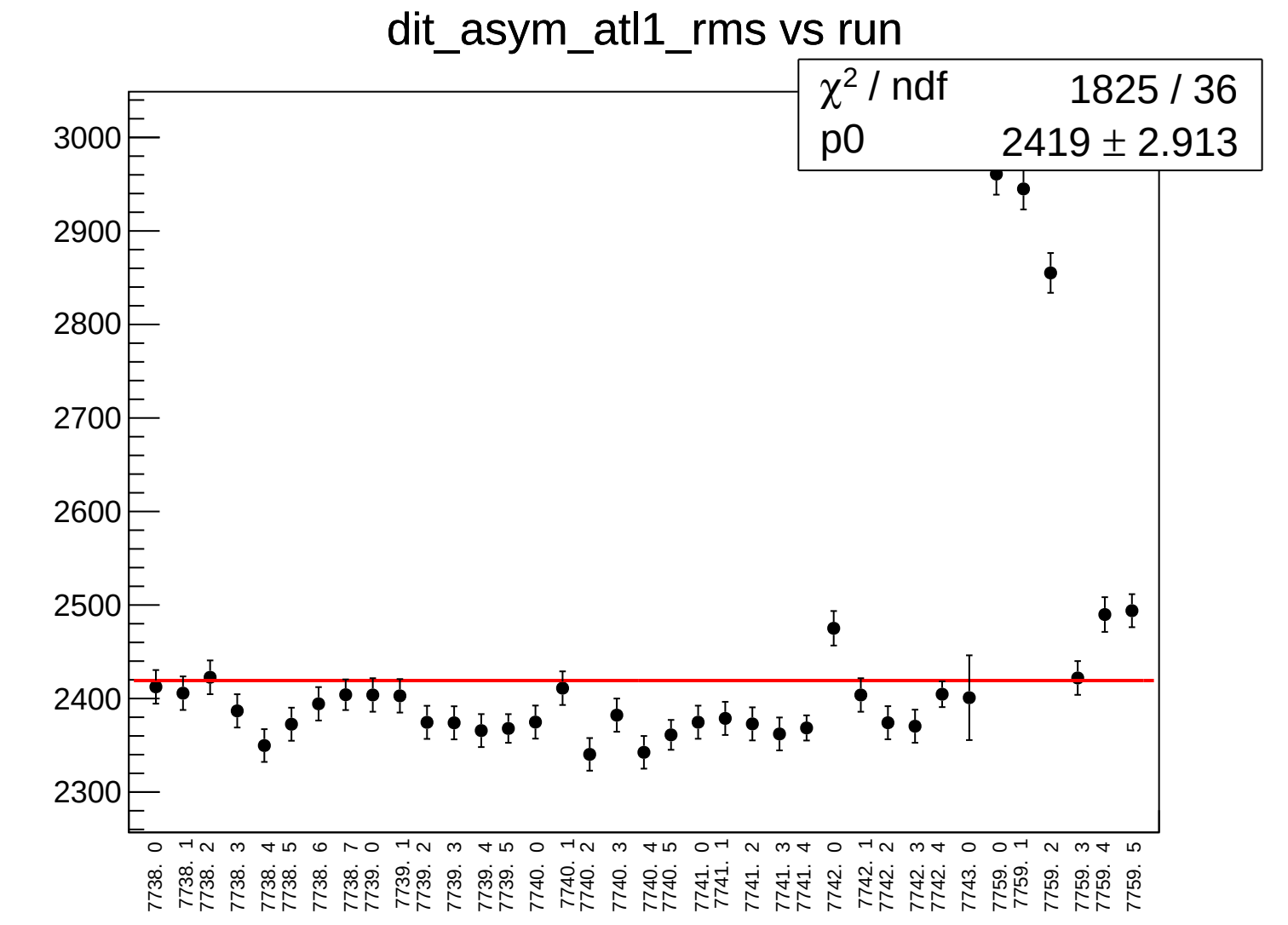

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 37.94 / 36
p0 −2529 ± 3615
×10³
pull
Entries 37
Mean −220.6
Std Dev 237.3

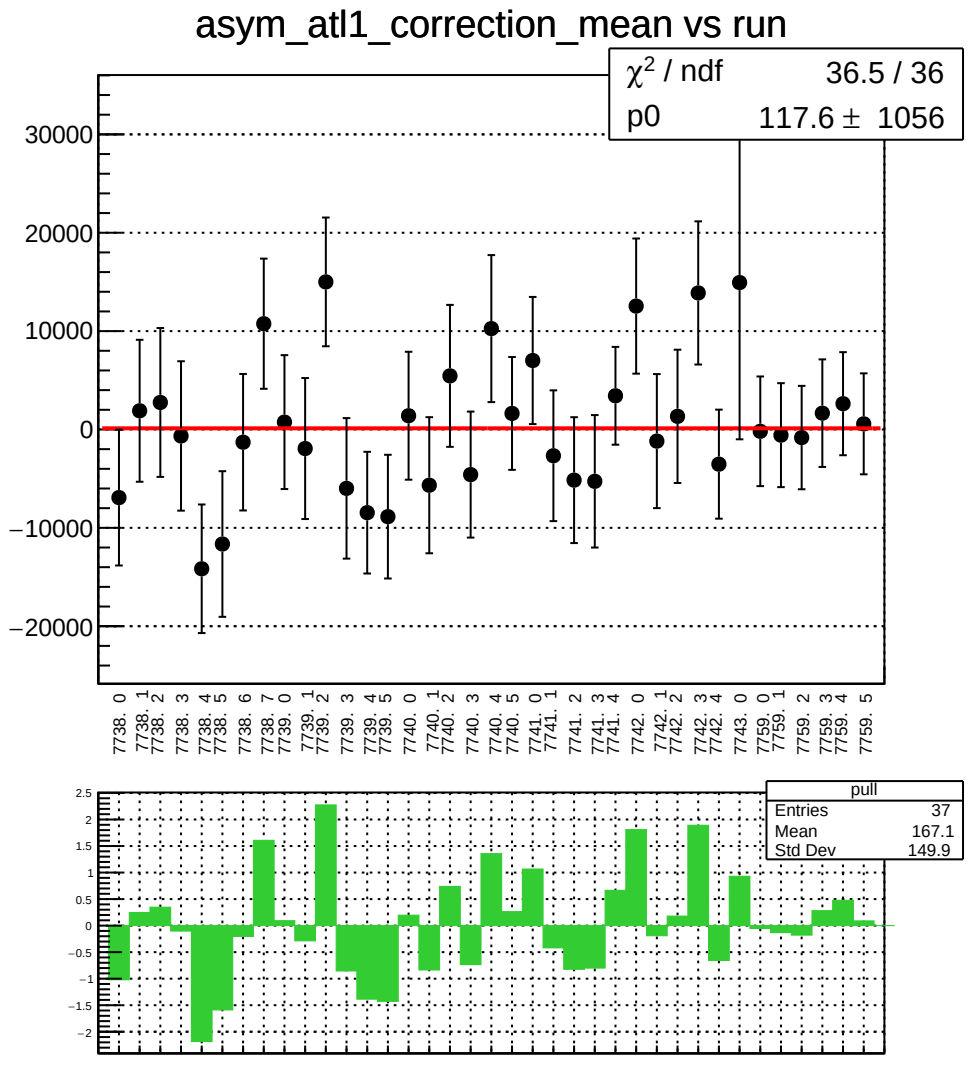

pull1D
Entries 37
Mean 0.01187
Std Dev 1.013

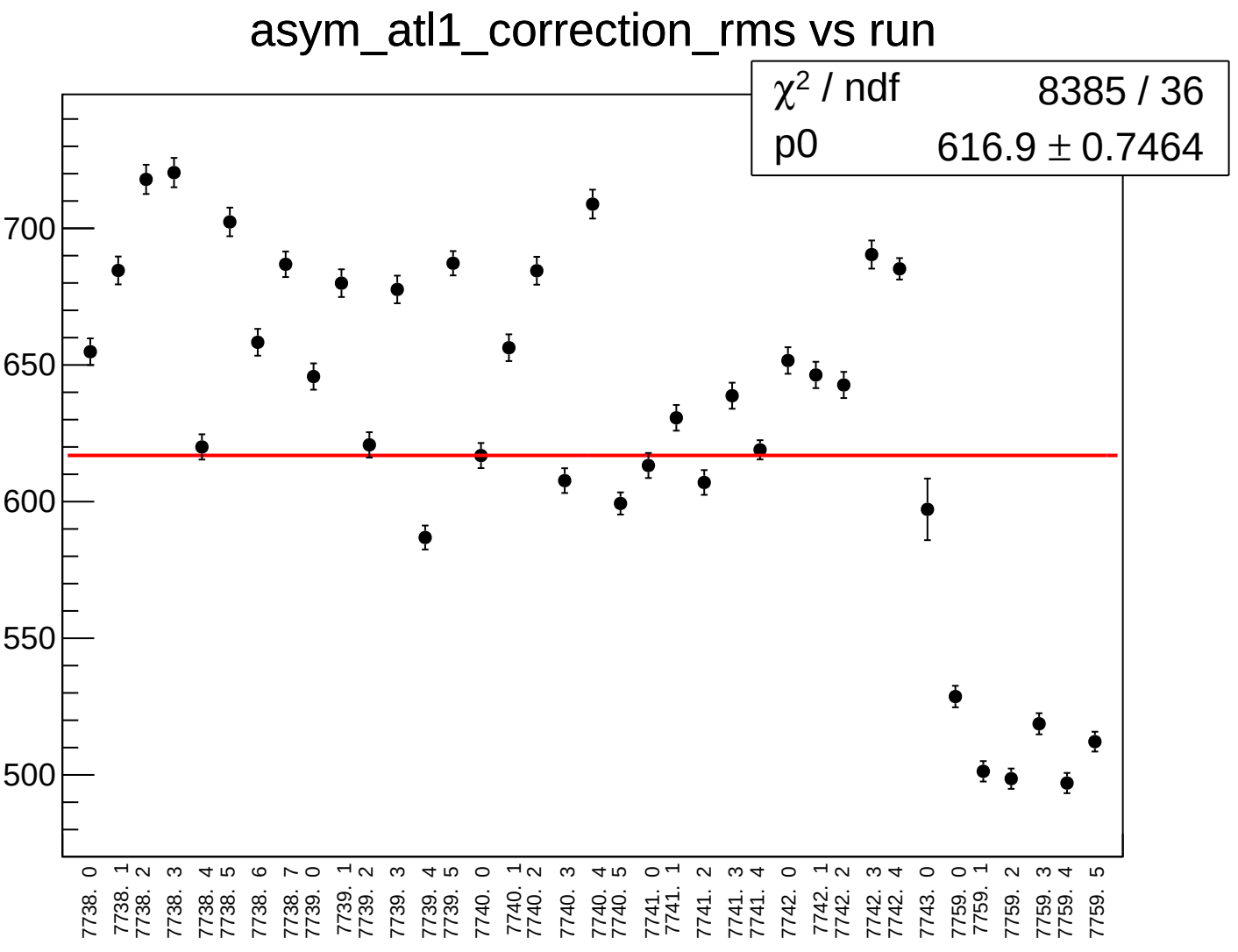

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1002 / 36
p0 2124 ± 2.556
2300
2250
2200
2150
2100
2050
2000
1950
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

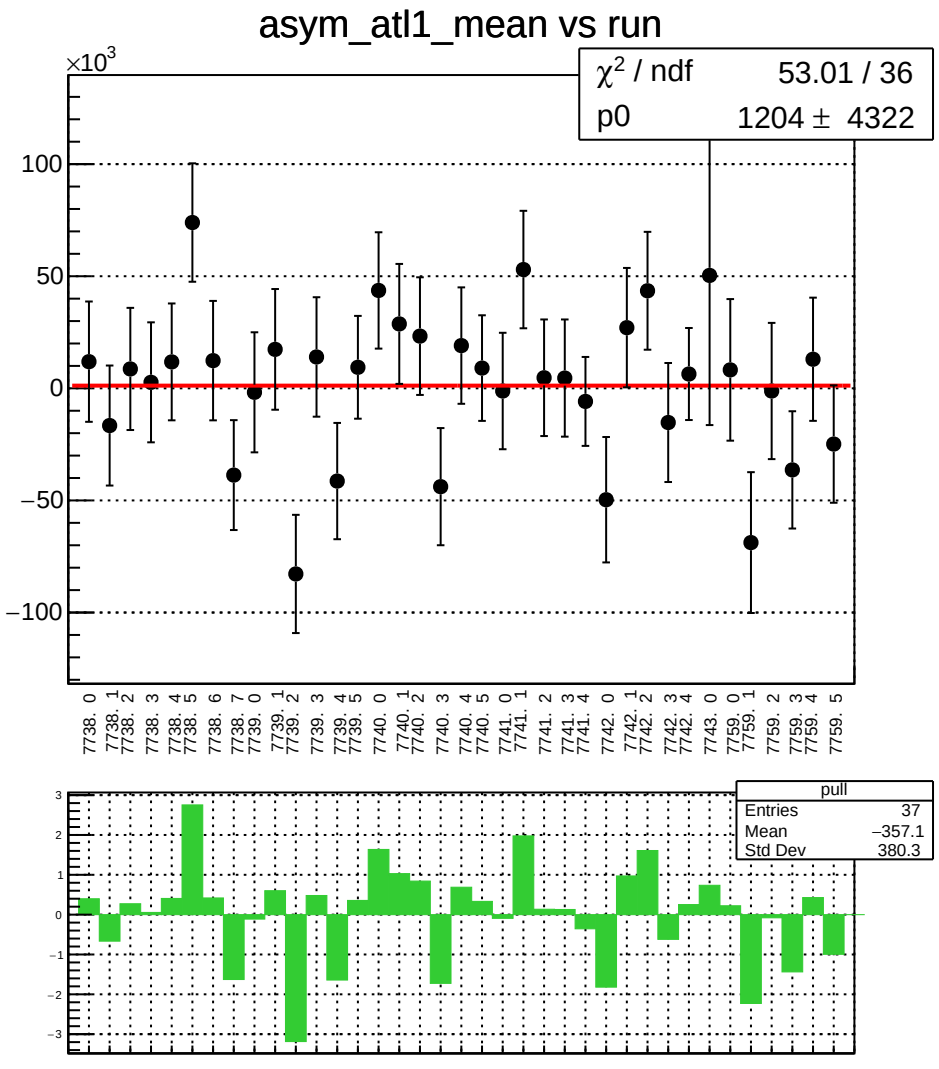

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 50.55 / 36
p0 1453 ± 4120
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −117
Std Dev 144.6
2
1
0
−1
−2
−3

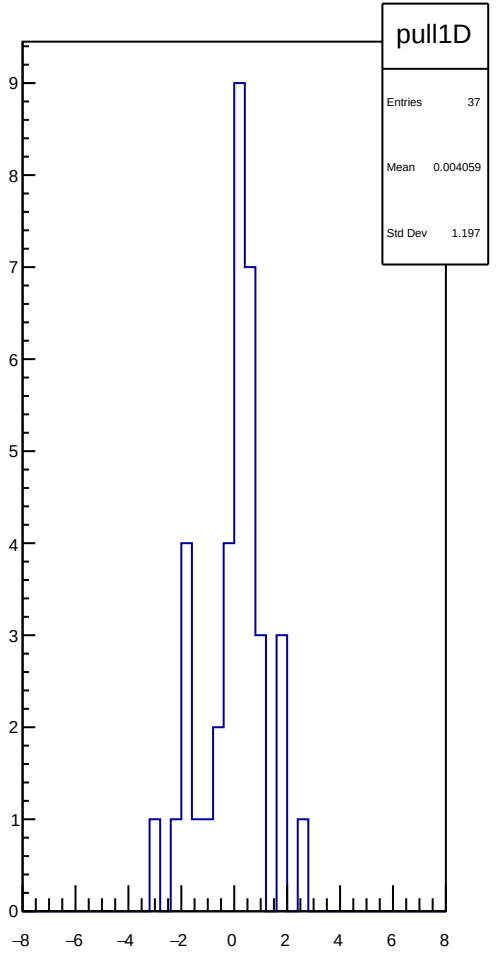

pull1D
Entries 37
Mean 0.006566
Std Dev 1.169
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

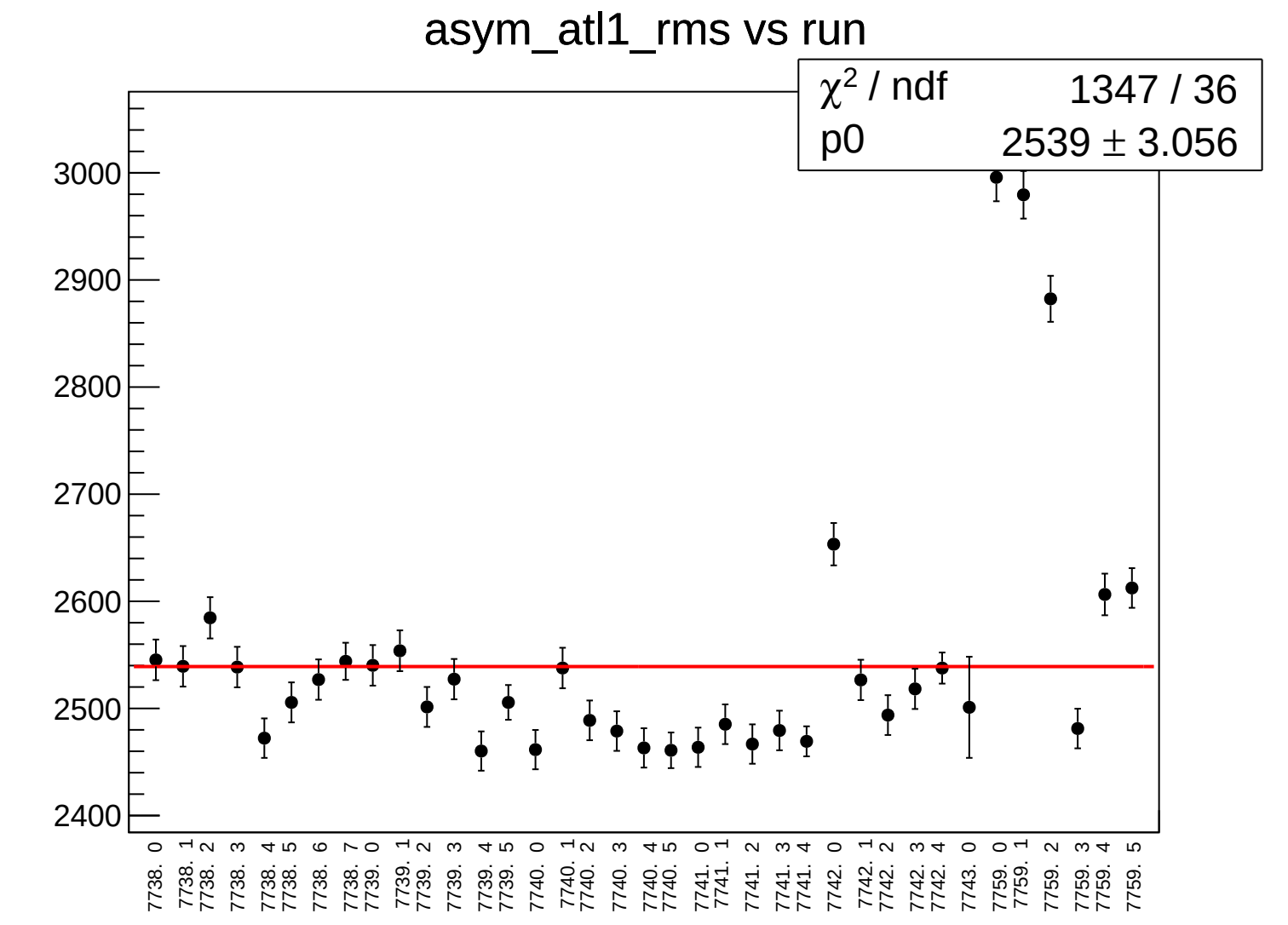

dit_asym_atl1_rms vs run
χ² / ndf 1825 / 36
p0 2419 ± 2.913
3000
2900
2800
2700
2600
2500
2400
2300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

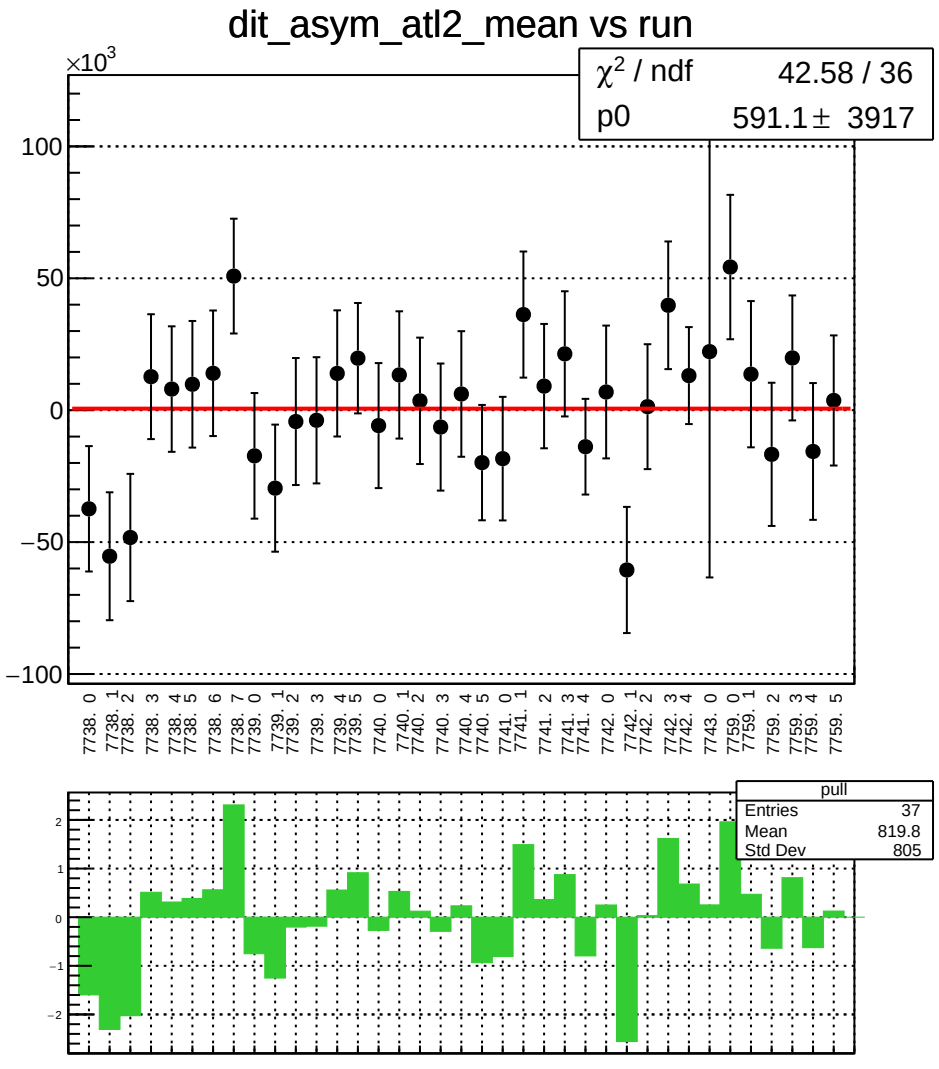

asym_atl1_correction_mean vs run
χ² / ndf 36.5 / 36
p0 117.6 ± 1056
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 167.1
Std Dev 149.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.01717
Std Dev 0.9931
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

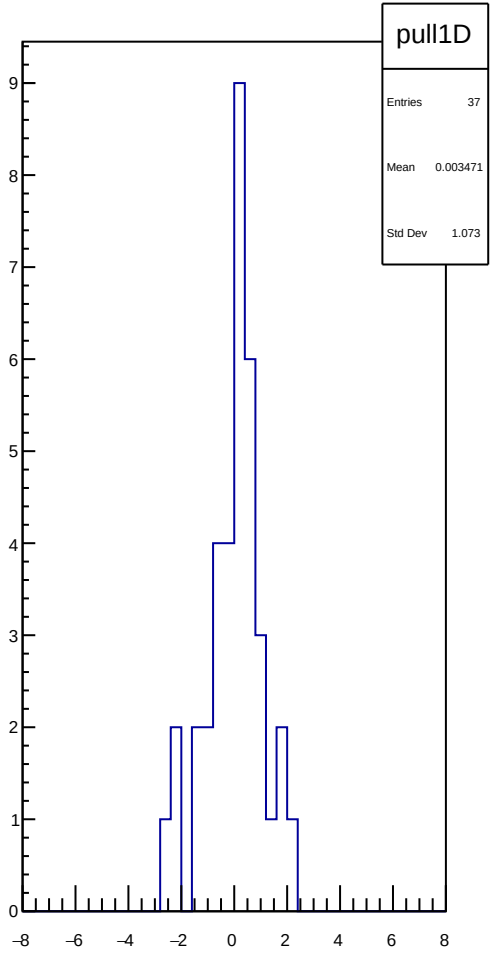

asym_atl1_correction_rms vs run
χ² / ndf 8385 / 36
p0 616.9 ± 0.7464
700
650
600
550
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

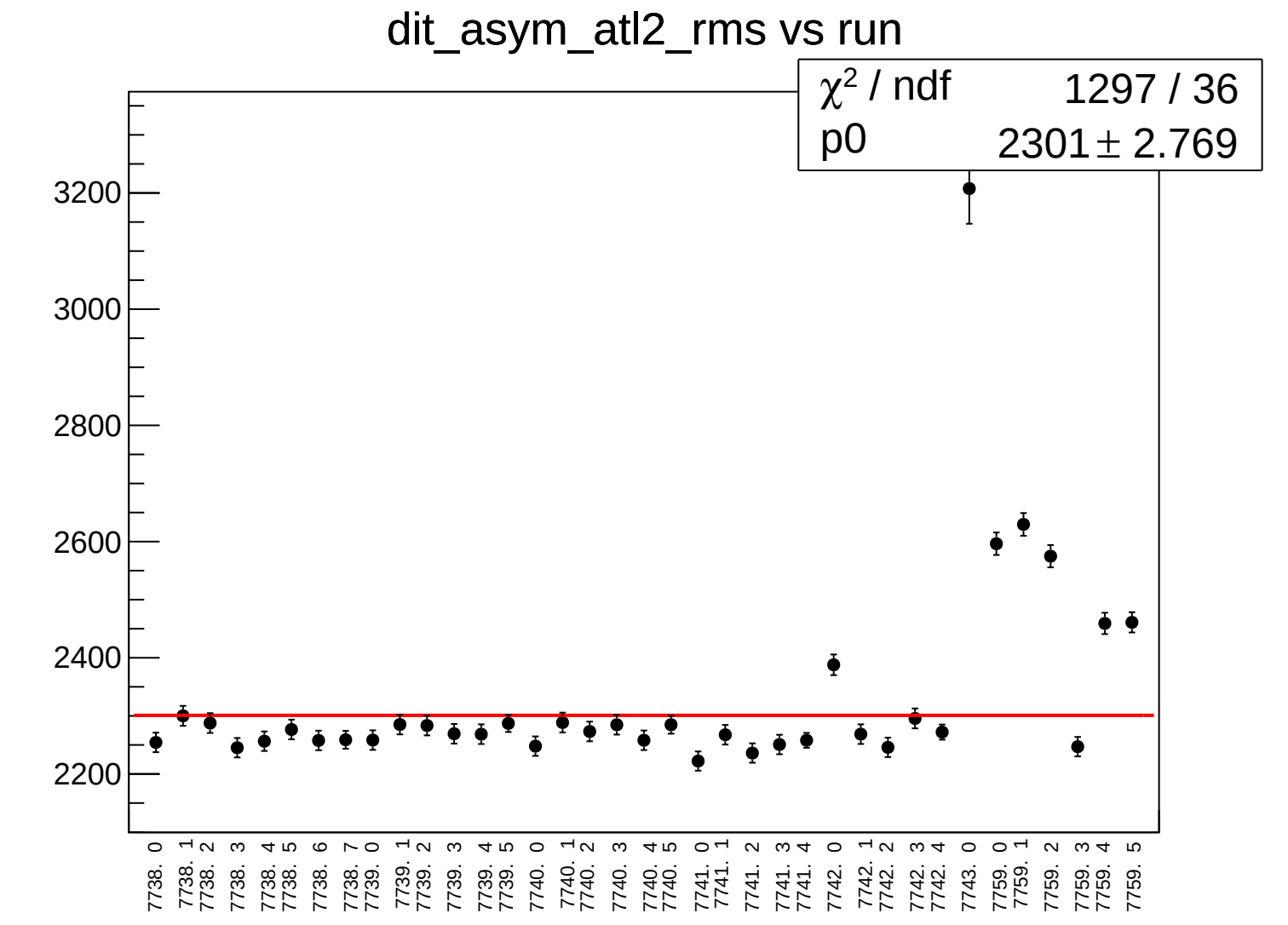

asym_atl1_mean vs run
×10^3
χ^2 / ndf 53.01 / 36
p0 1204 ± 4322
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −357.1
Std Dev 380.3
3
2
1
0
−1
−2
−3

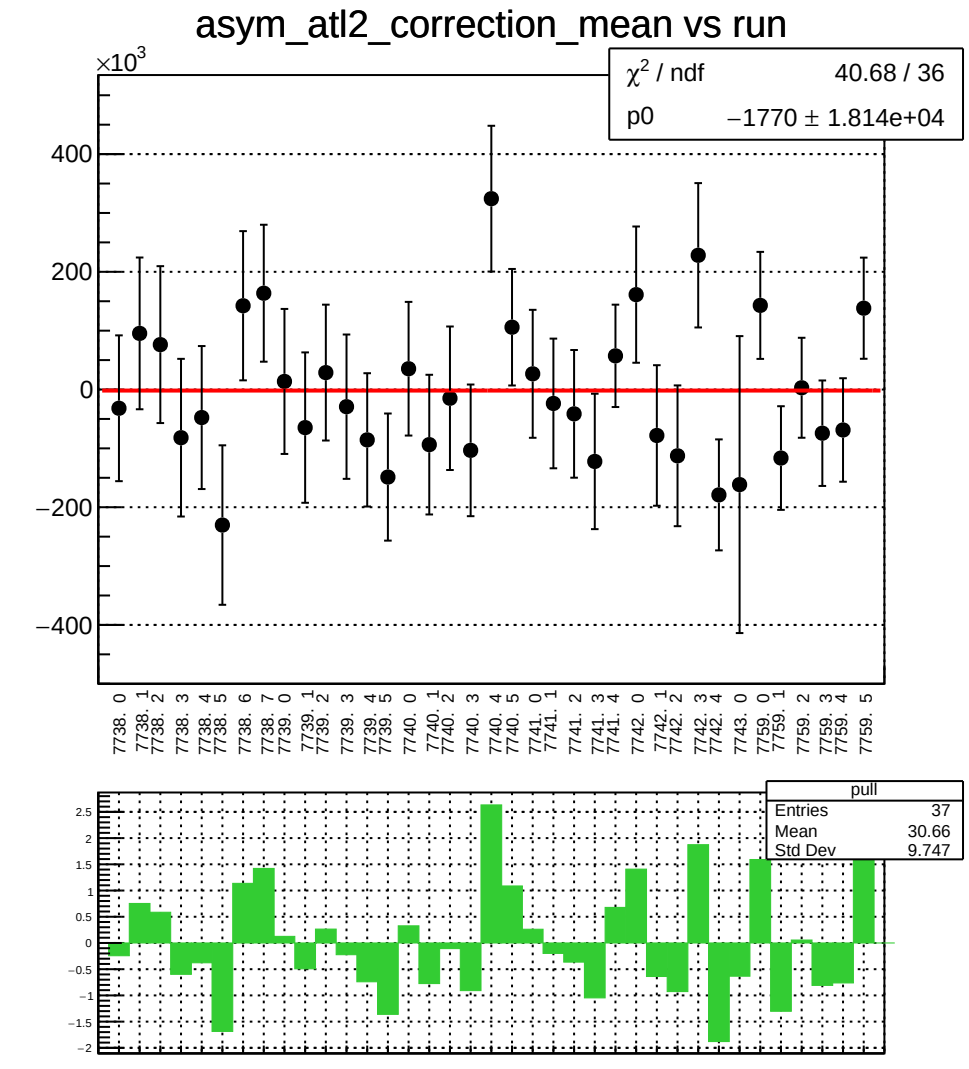

pull1D
Entries 37
Mean 0.004059
Std Dev 1.197
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

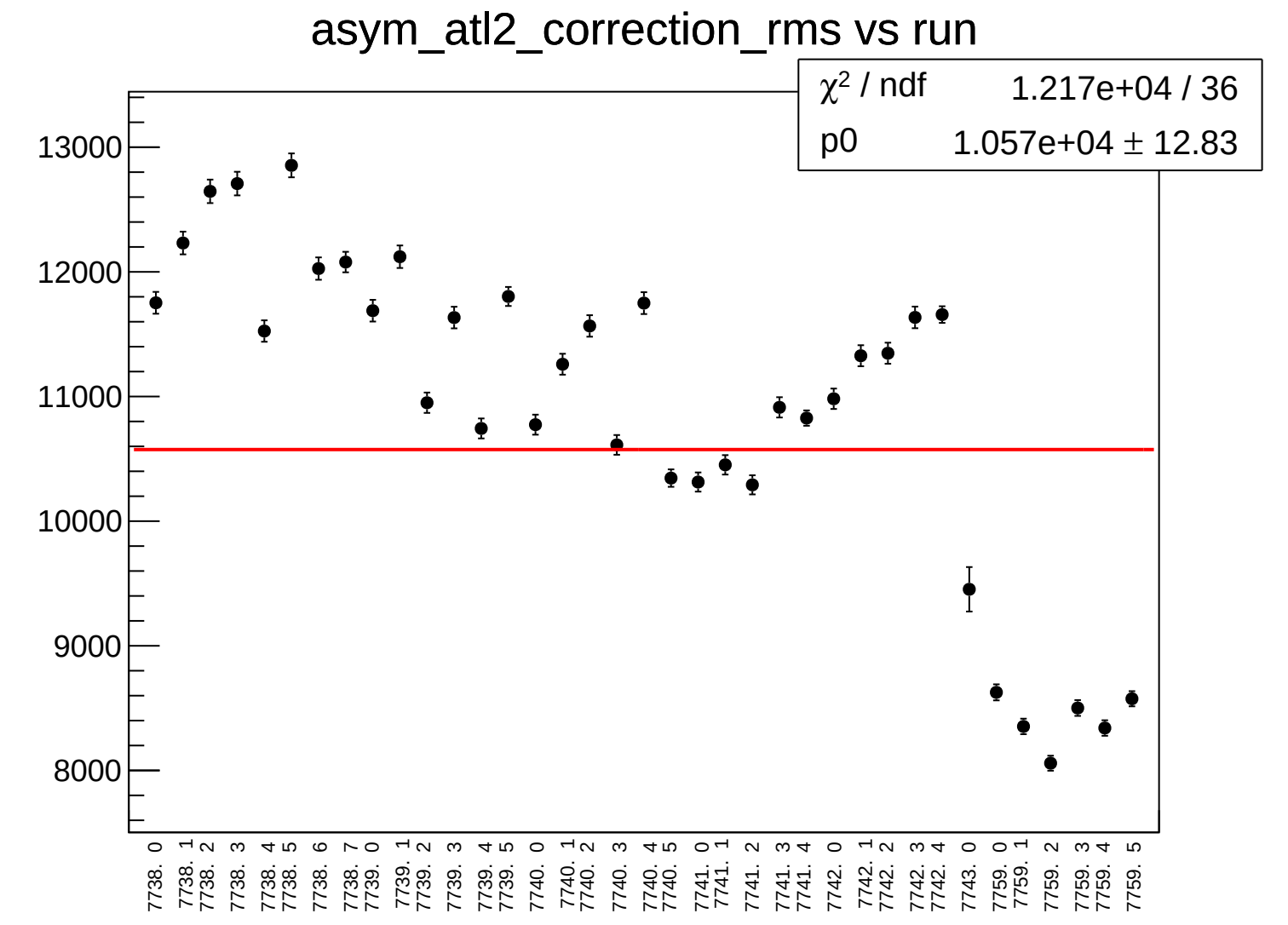

asym_atl1_rms vs run
χ² / ndf 1347 / 36
p0 2539 ± 3.056
3000
2900
2800
2700
2600
2500
2400
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

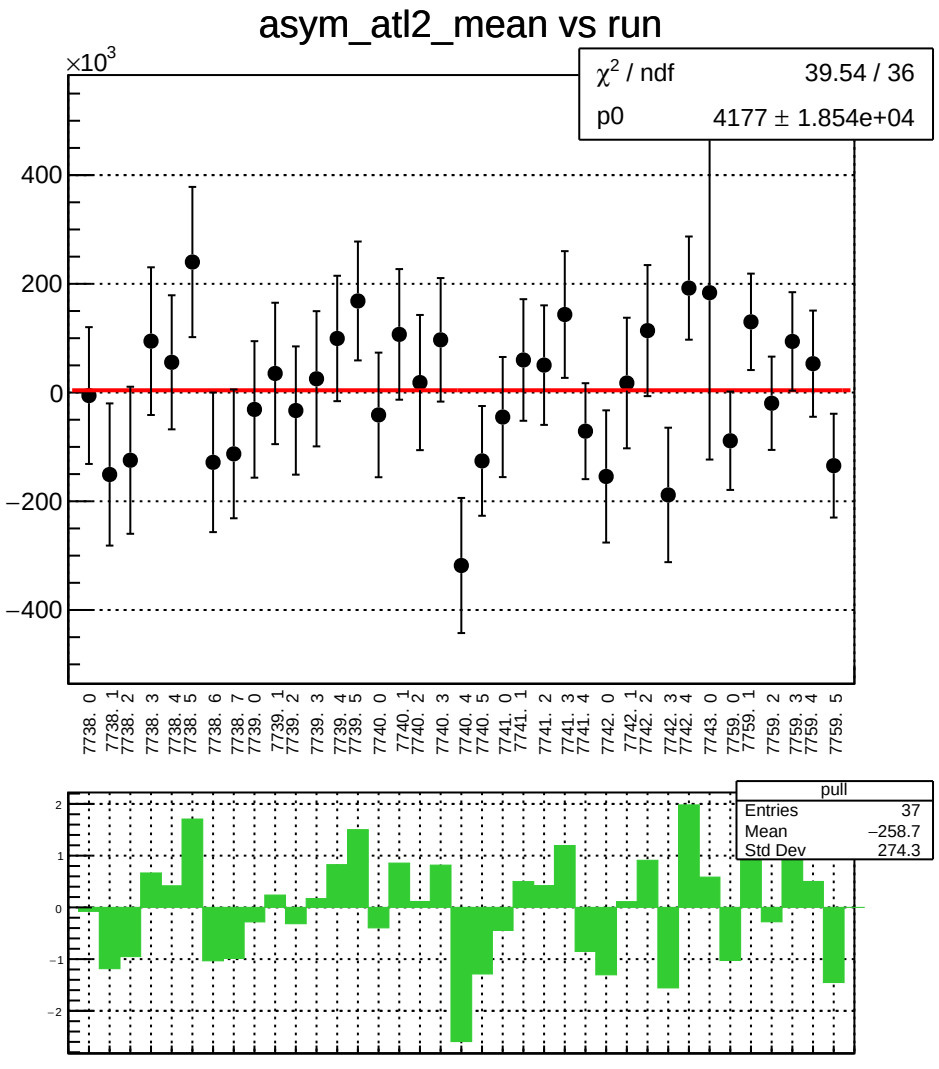

dit_asym_atl2_mean vs run
χ² / ndf 42.58 / 36
p0 591.1 ± 3917
×10³
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 819.8
Std Dev 805
2
1
0
−1
−2

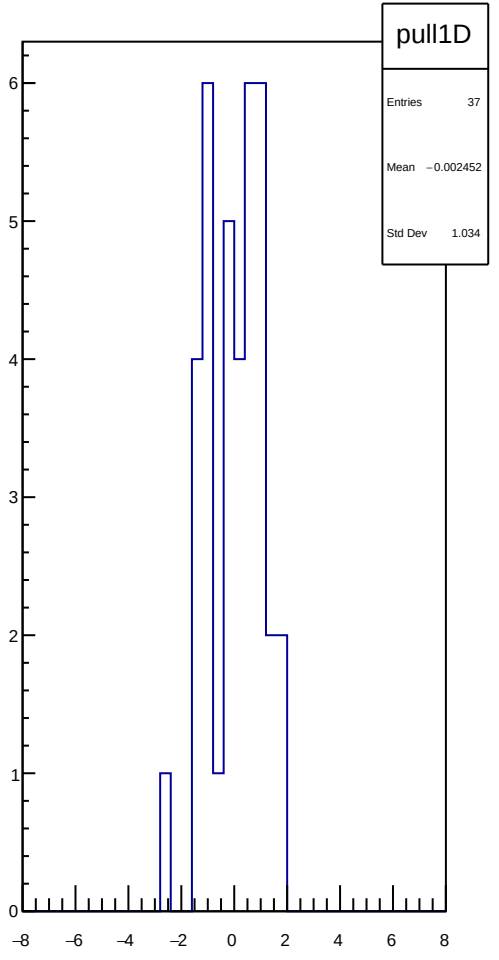

pull1D
Entries 37
Mean 0.003471
Std Dev 1.073
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

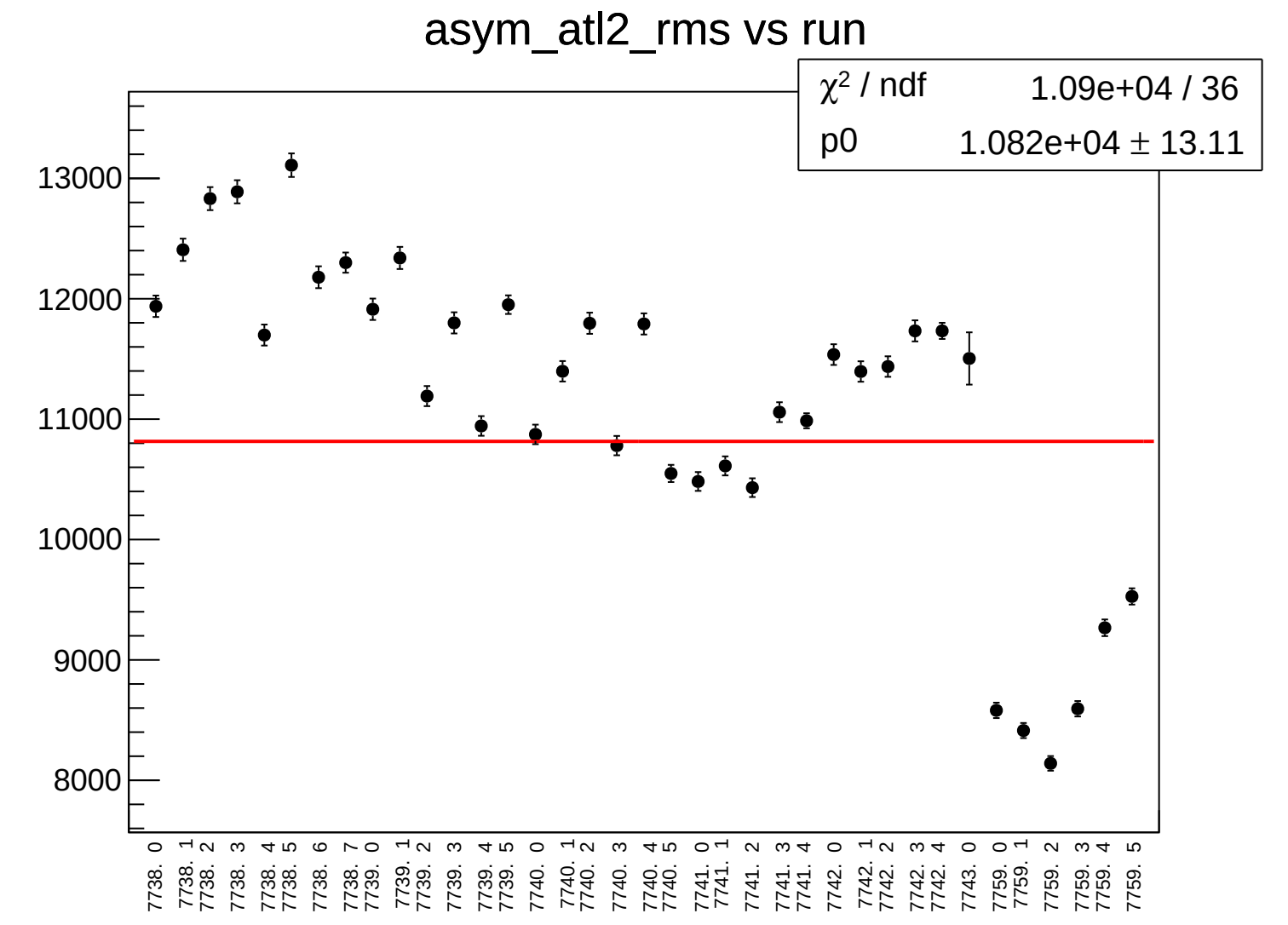

dit_asym_atl2_rms vs run
χ² / ndf 1297 / 36
p0 2301 ± 2.769
3200
3000
2800
2600
2400
2200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

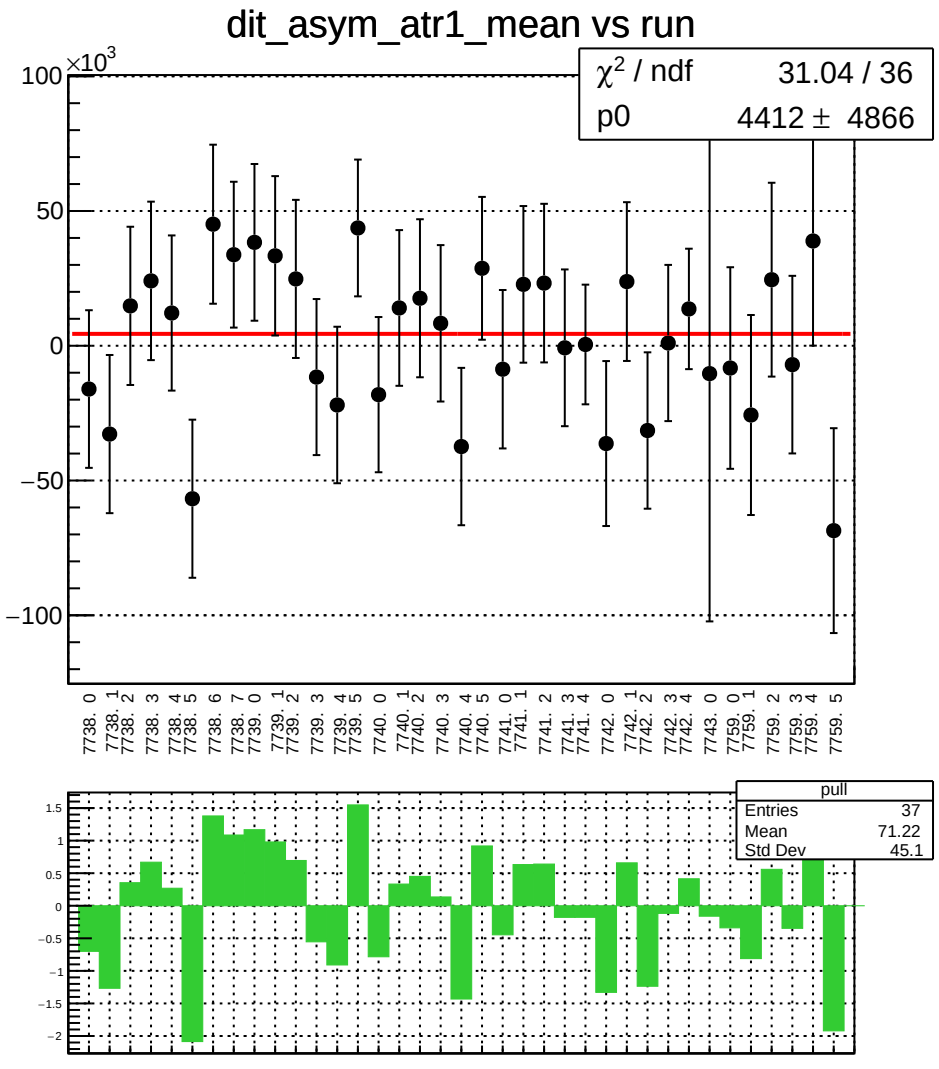

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 40.68 / 36
p0 −1770 ± 1.814e+04
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.66
Std Dev 9.747
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.006524
Std Dev 1.048
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

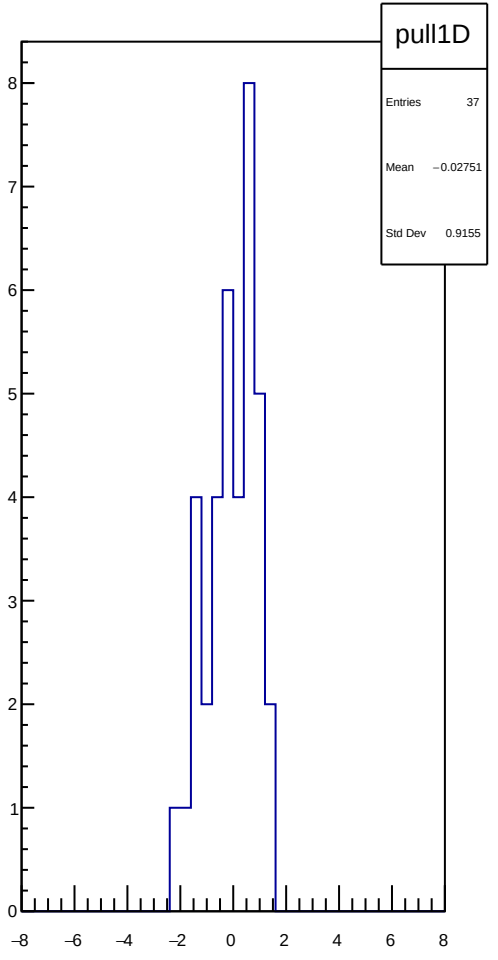

asym_atl2_correction_rms vs run
χ² / ndf 1.217e+04 / 36
p0 1.057e+04 ± 12.83
13000
12000
11000
10000
9000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

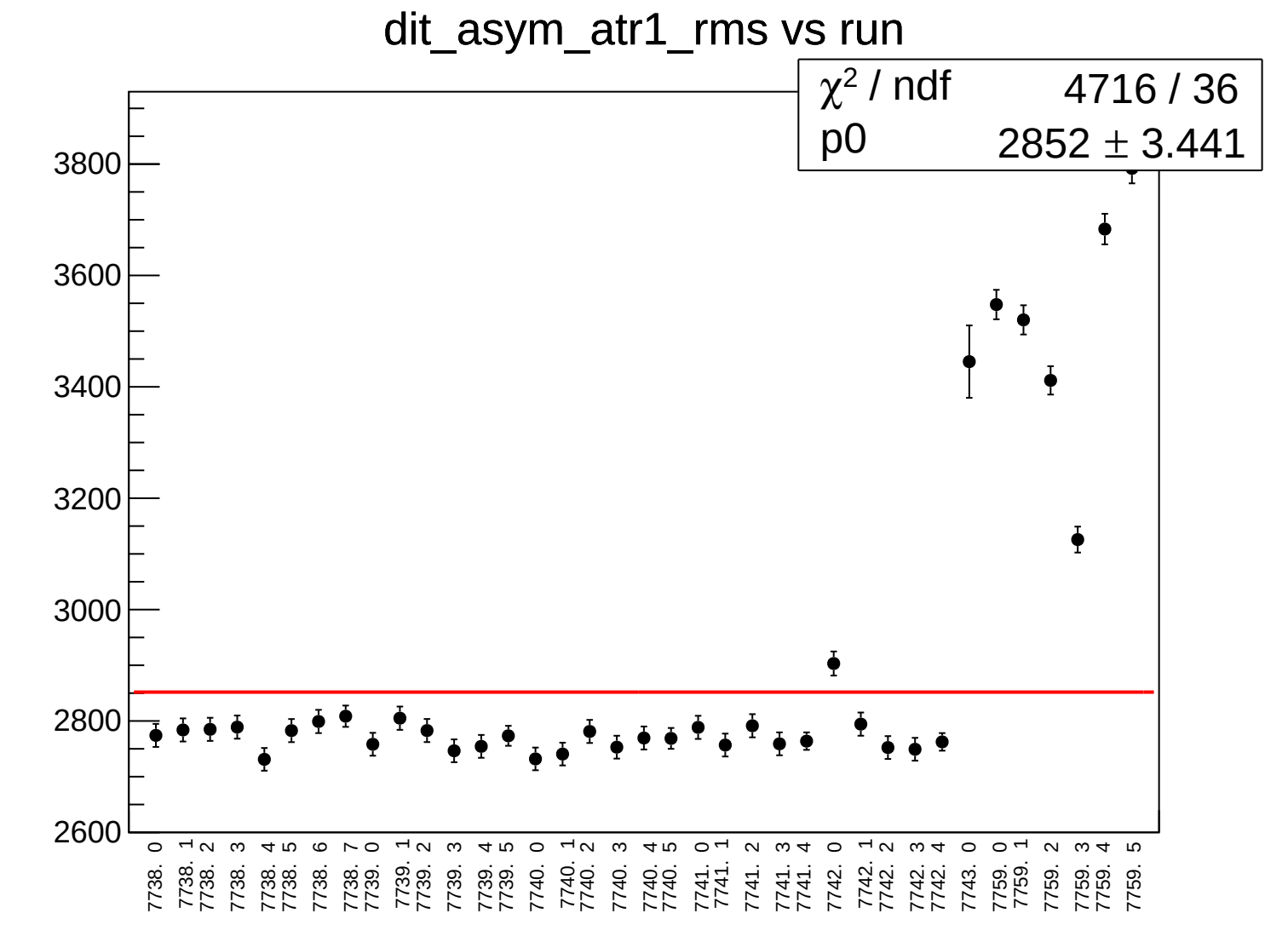

asym_atl2_mean vs run
×10^3
χ² / ndf 39.54 / 36
p0 4177 ± 1.854e+04
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −258.7
Std Dev 274.3
2
1
0
−1
−2

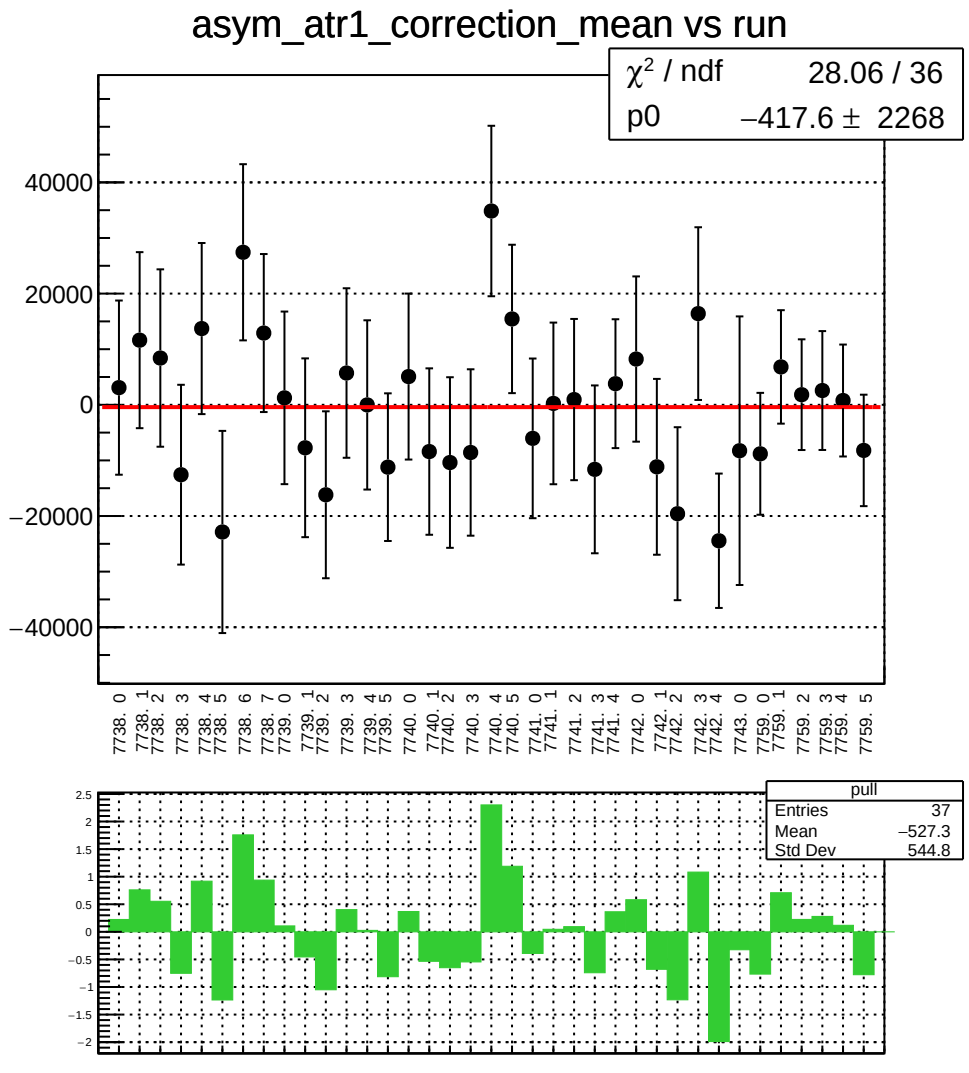

pull1D
Entries 37
Mean −0.002452
Std Dev 1.034
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

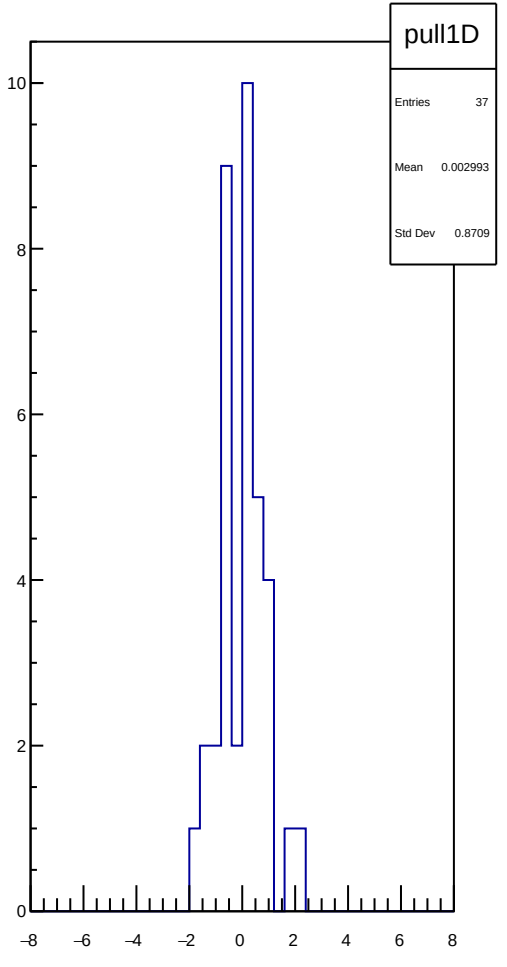

asym_atl2_rms vs run
χ² / ndf 1.09e+04 / 36
p0 1.082e+04 ± 13.11
13000
12000
11000
10000
9000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

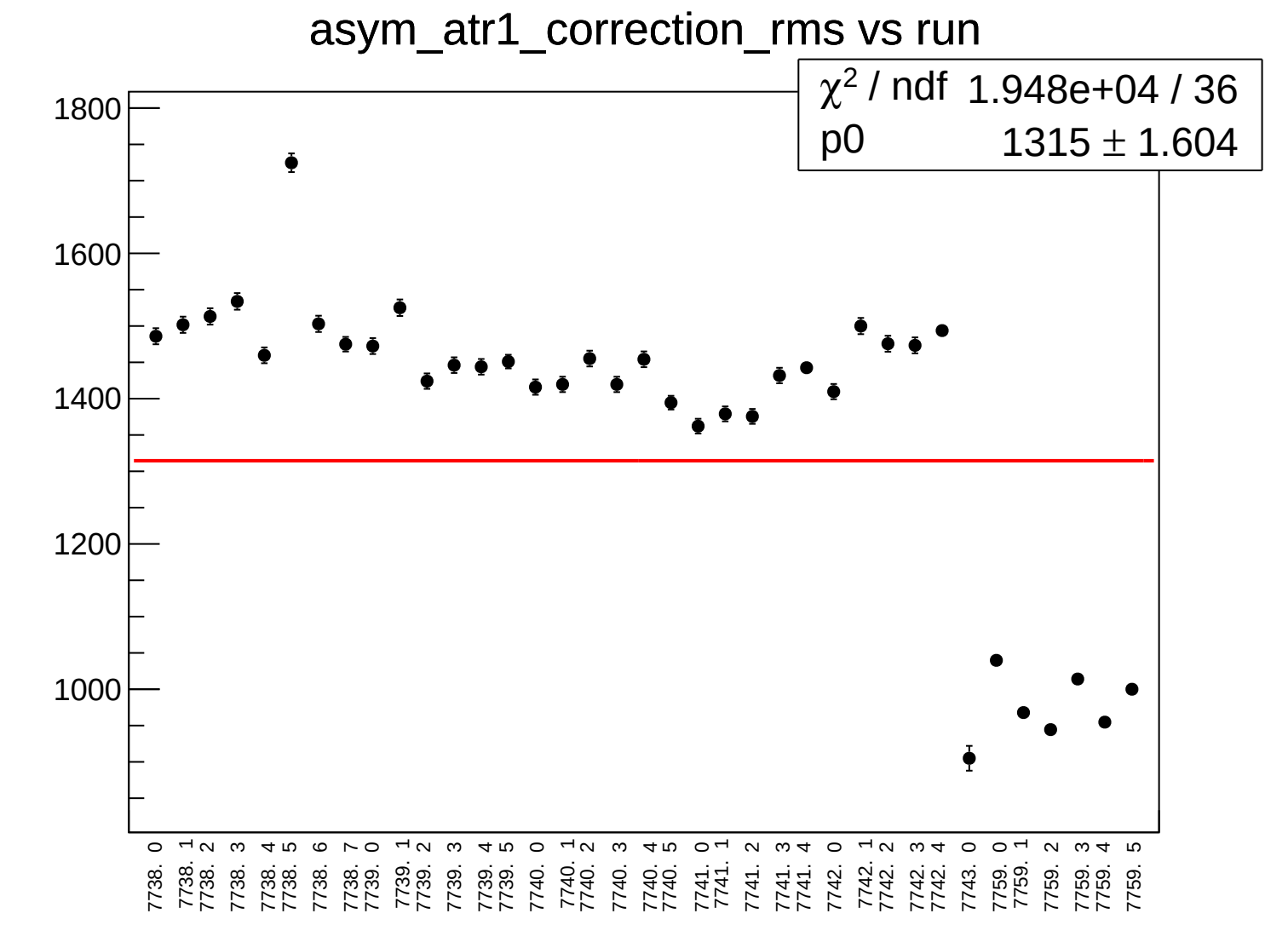

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 31.04 / 36
p0 4412 ± 4866
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 71.22
Std Dev 45.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

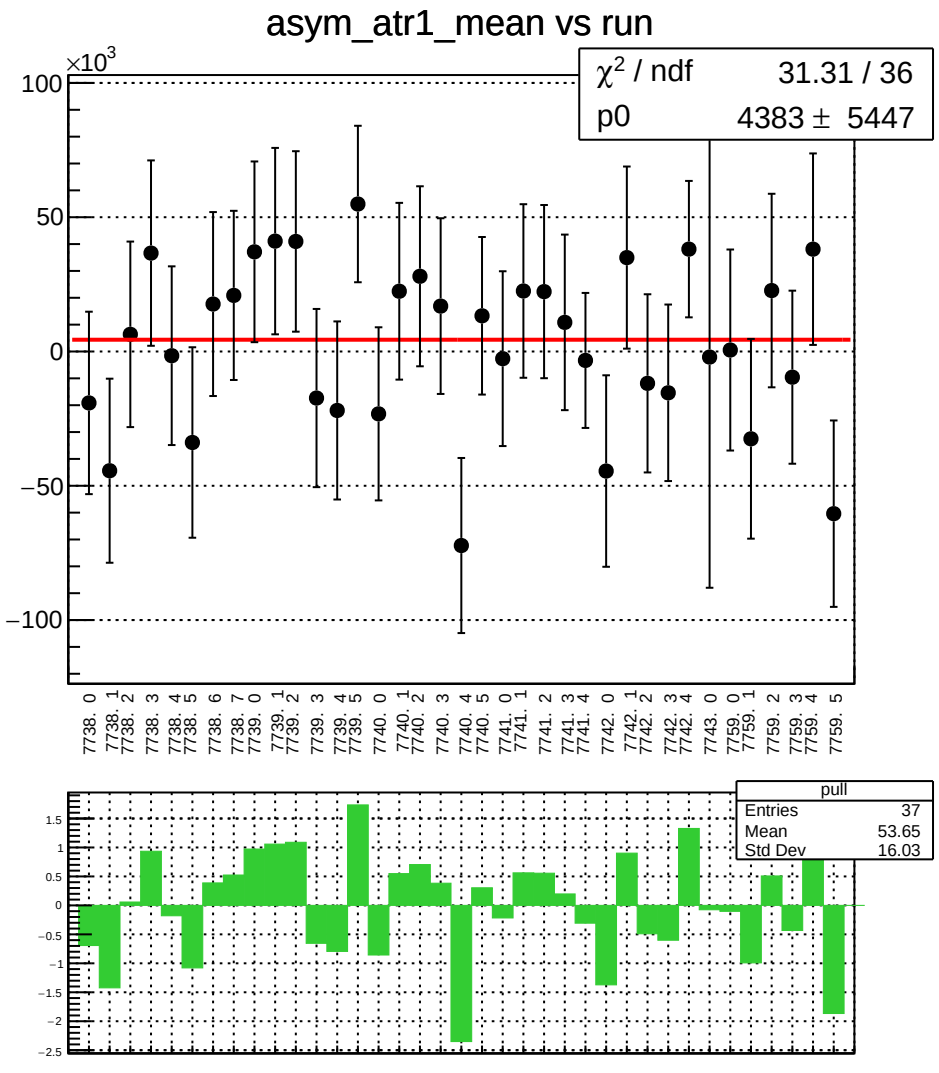

pull1D
Entries 37
Mean −0.02751
Std Dev 0.9155
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

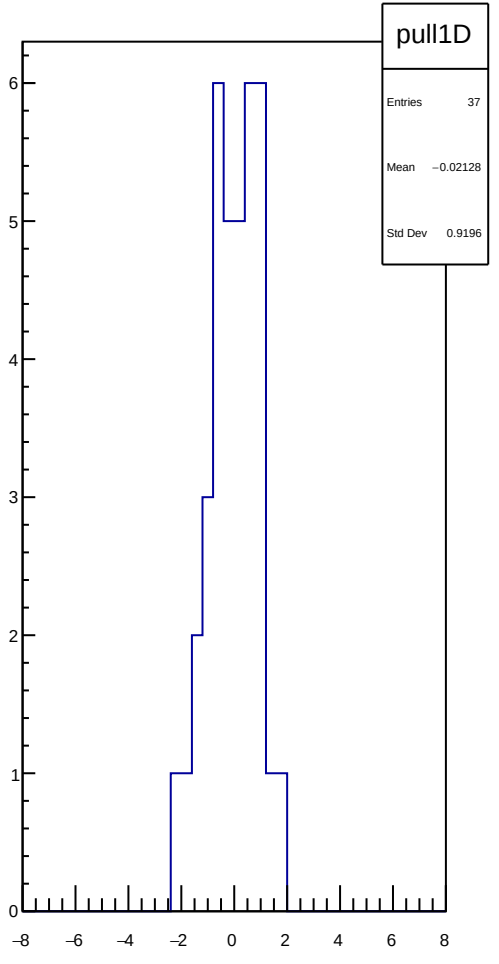

dit_asym_atr1_rms vs run
χ² / ndf 4716 / 36
p0 2852 ± 3.441
3800
3600
3400
3200
3000
2800
2600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

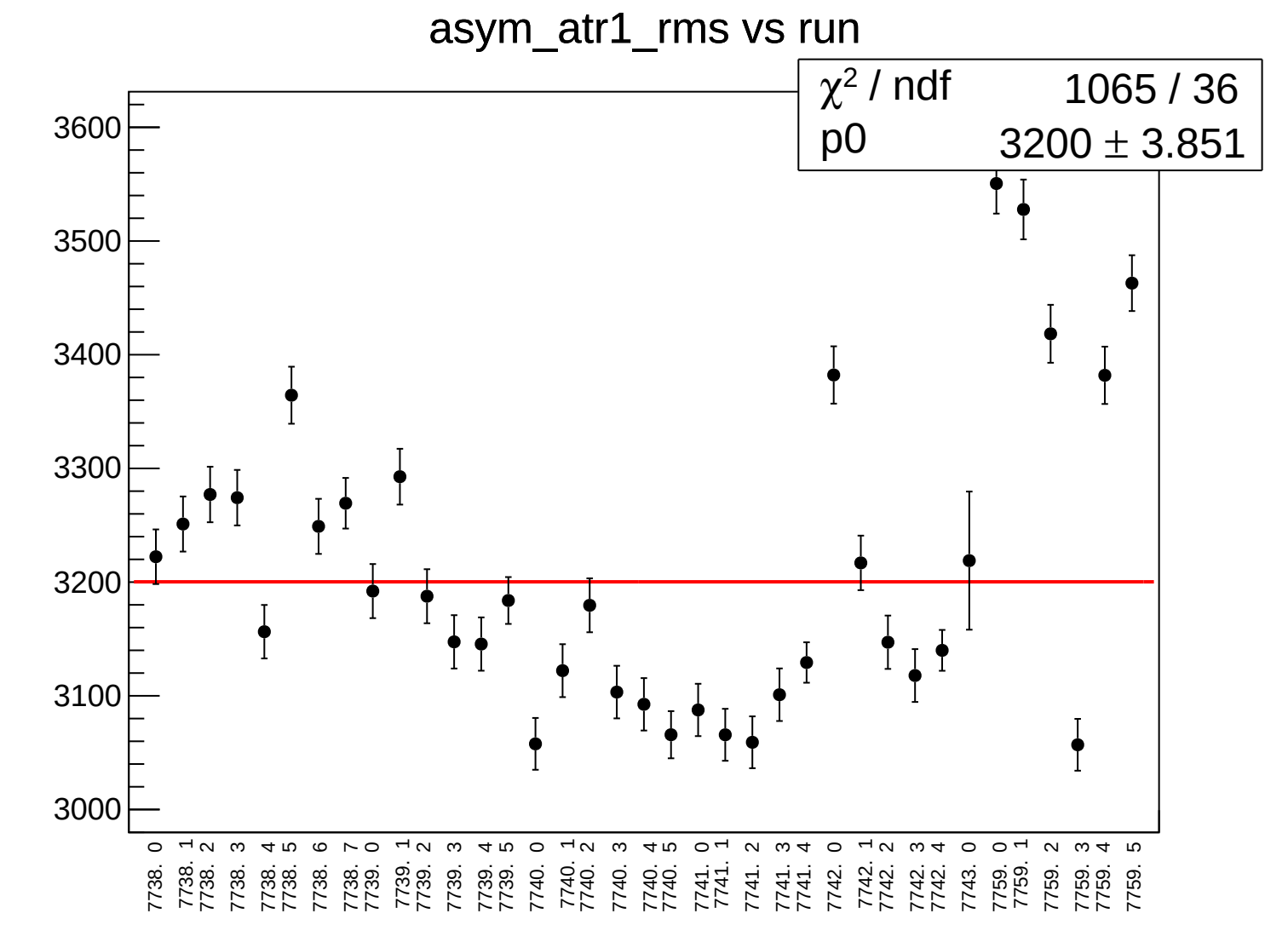

asym_atr1_correction_mean vs run
χ² / ndf 28.06 / 36
p0 −417.6 ± 2268
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −527.3
Std Dev 544.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

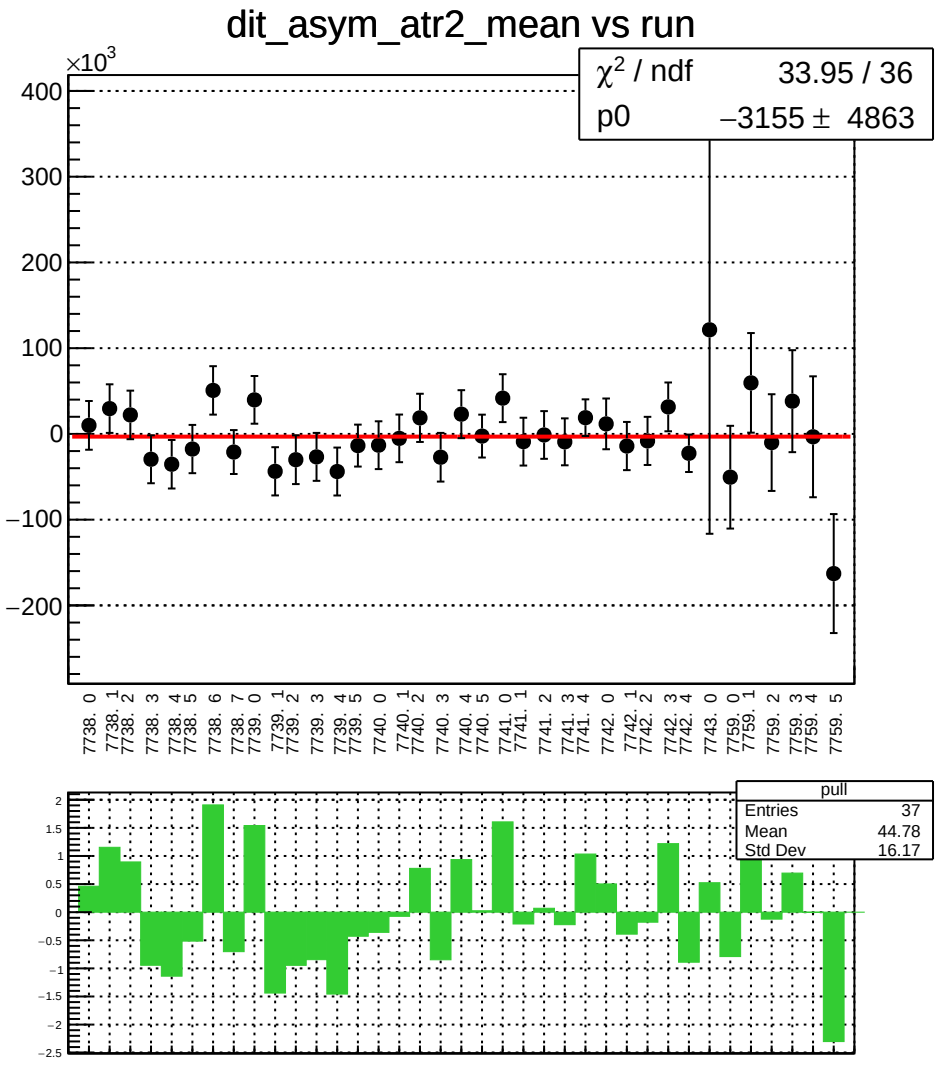

pull1D
Entries 37
Mean 0.002993
Std Dev 0.8709
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

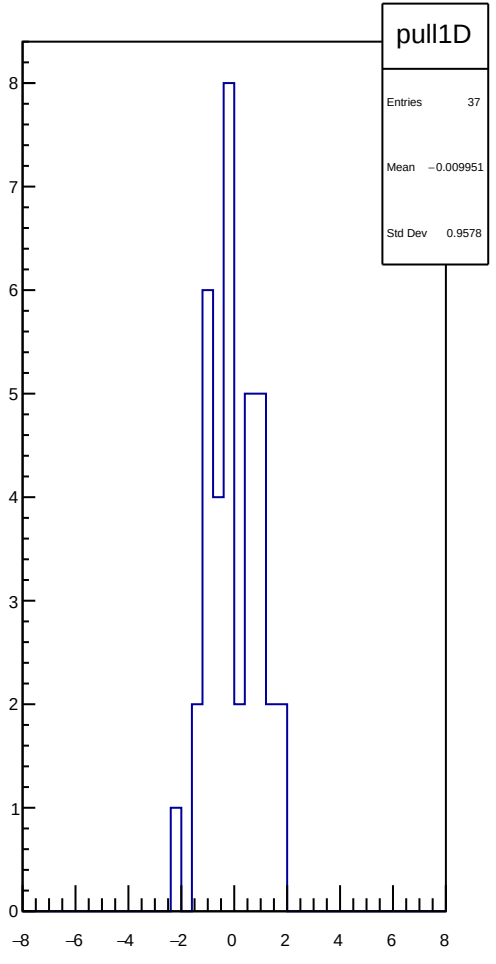

asym_atr1_correction_rms vs run
χ² / ndf 1.948e+04 / 36
p0 1315 ± 1.604
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

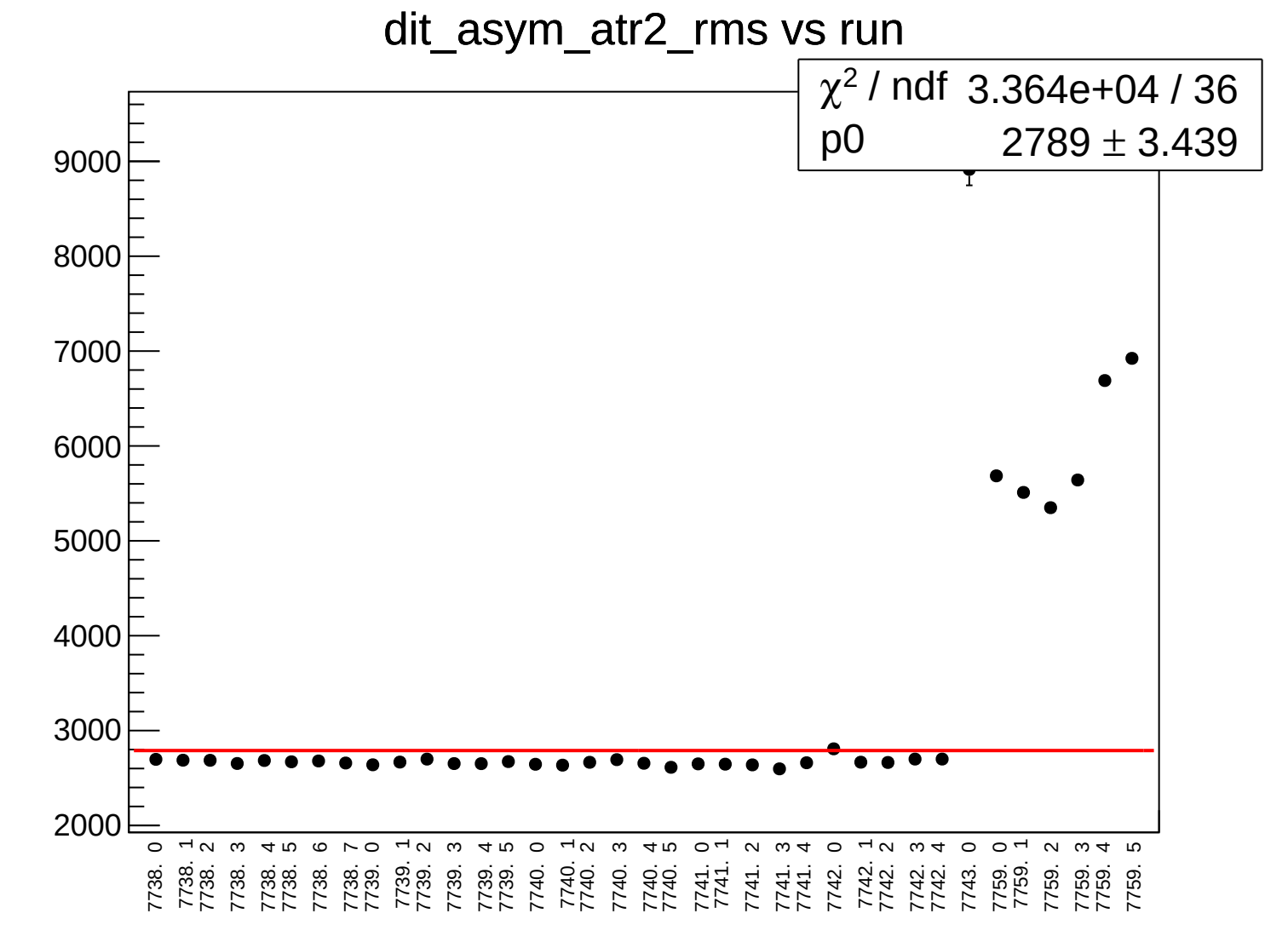

asym_atr1_mean vs run
×10^3
χ² / ndf 31.31 / 36
p0 4383 ± 5447
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 53.65
Std Dev 16.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

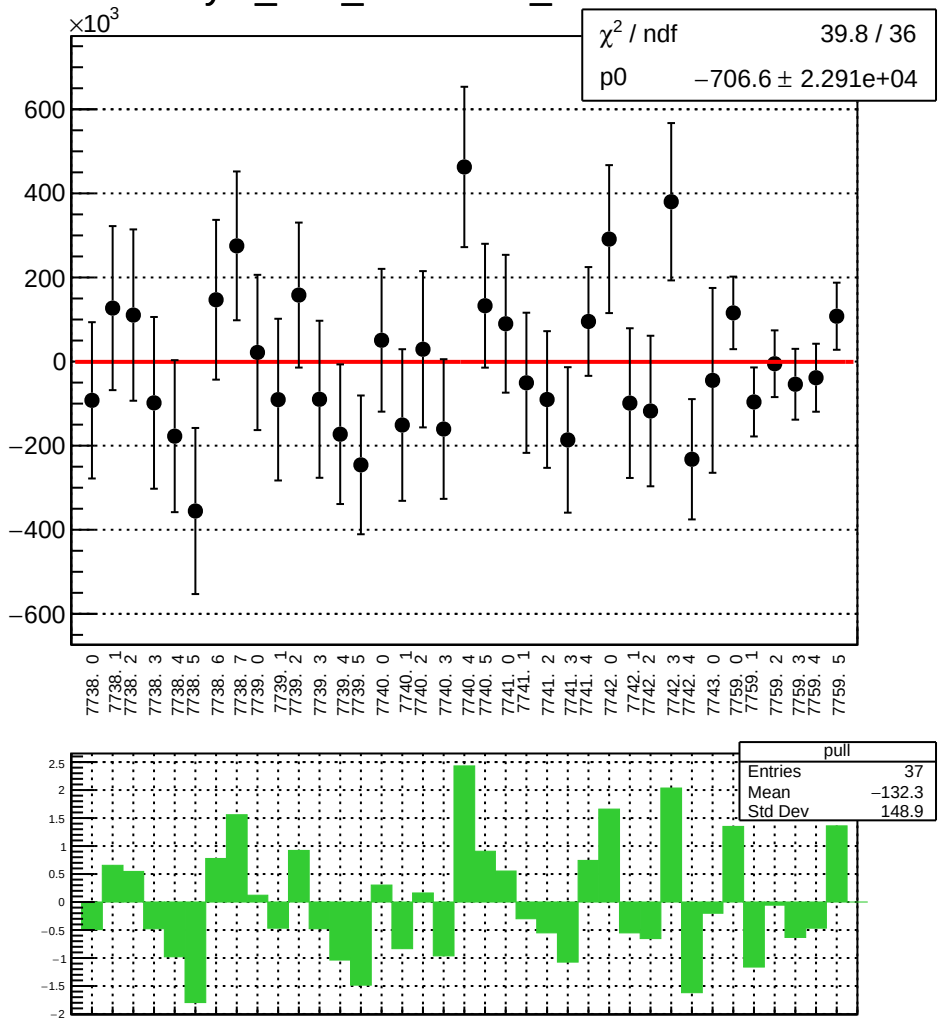

pull1D
Entries 37
Mean −0.02128
Std Dev 0.9196
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

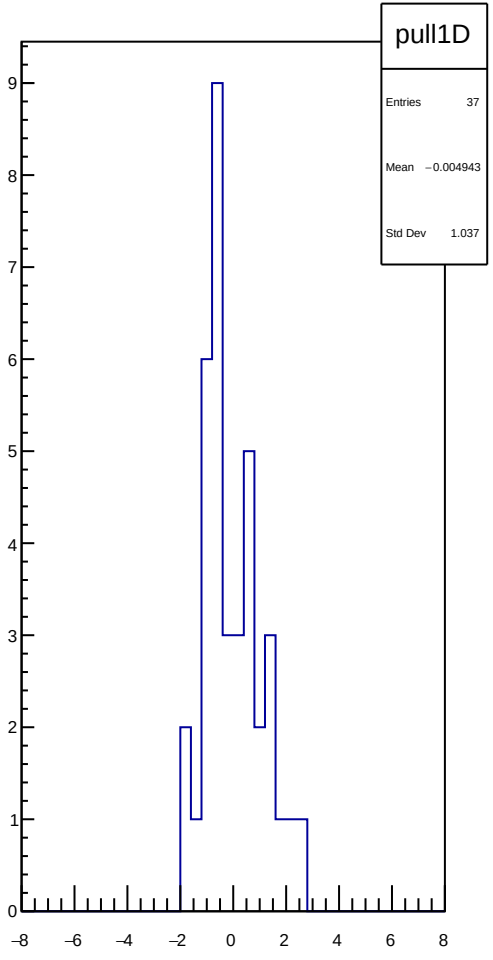

asym_atr1_rms vs run
χ² / ndf 1065 / 36
p0 3200 ± 3.851
3600
3500
3400
3300
3200
3100
3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

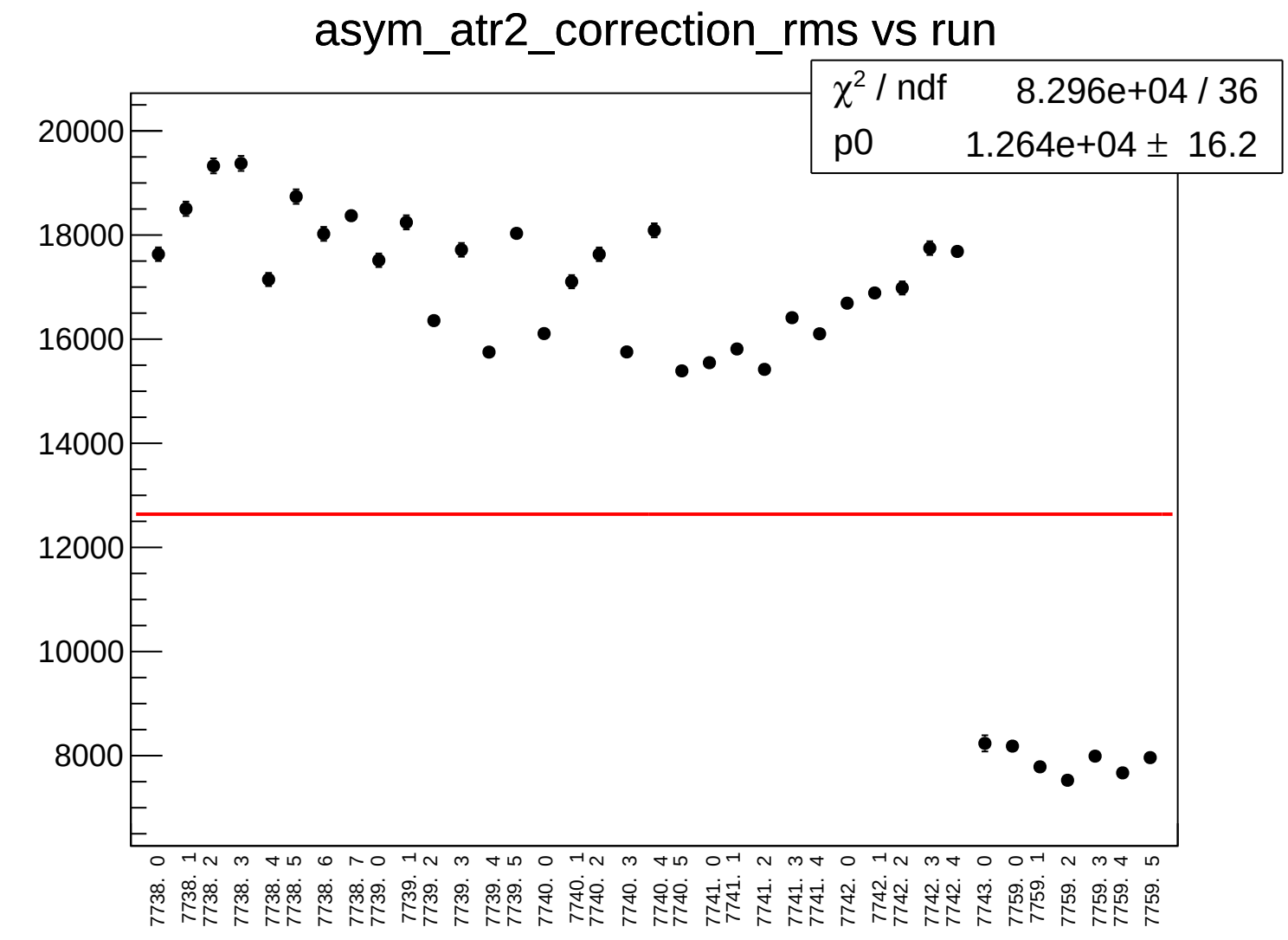

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 33.95 / 36
p0 −3155 ± 4863
pull
Entries 37
Mean 44.78
Std Dev 16.17

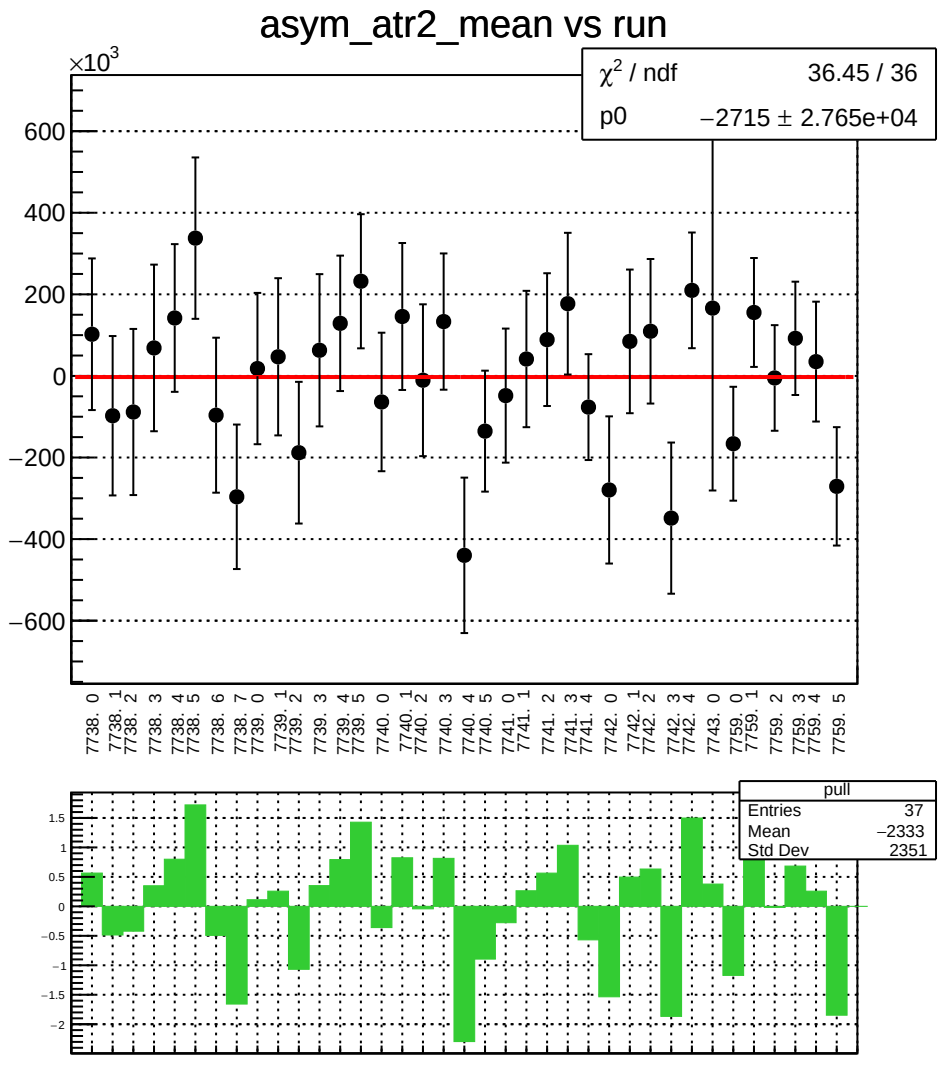

pull1D
Entries 37
Mean −0.009951
Std Dev 0.9578

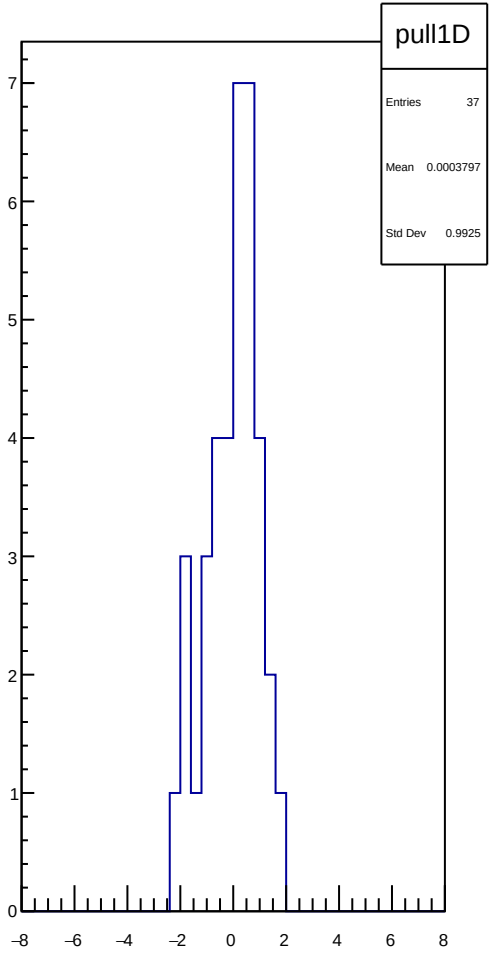

dit_asym_atr2_rms vs run
χ² / ndf 3.364e+04 / 36
p0 2789 ± 3.439
9000
8000
7000
6000
5000
4000
3000
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

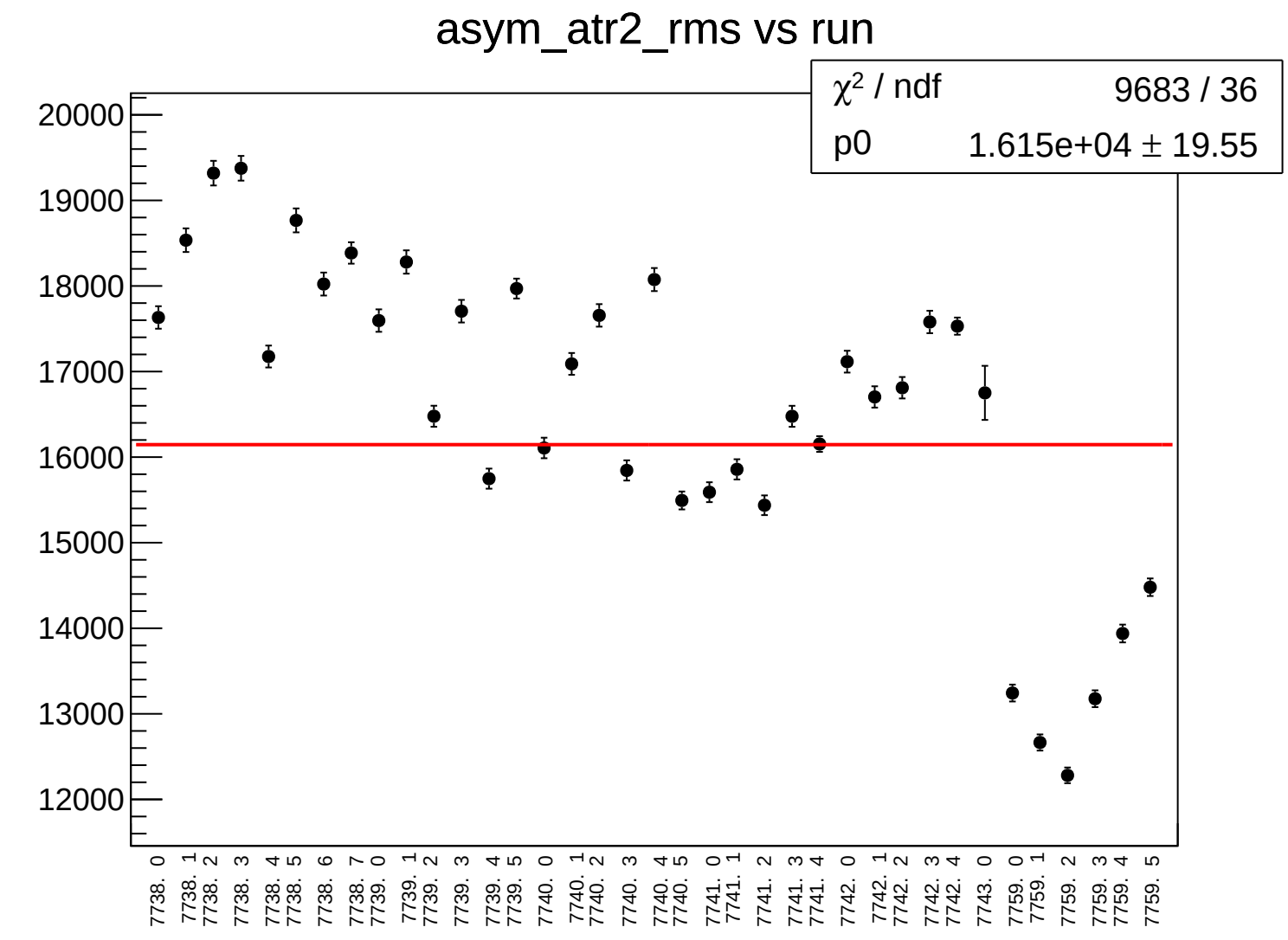

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 39.8 / 36
p0 −706.6 ± 2.291e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −132.3
Std Dev 148.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

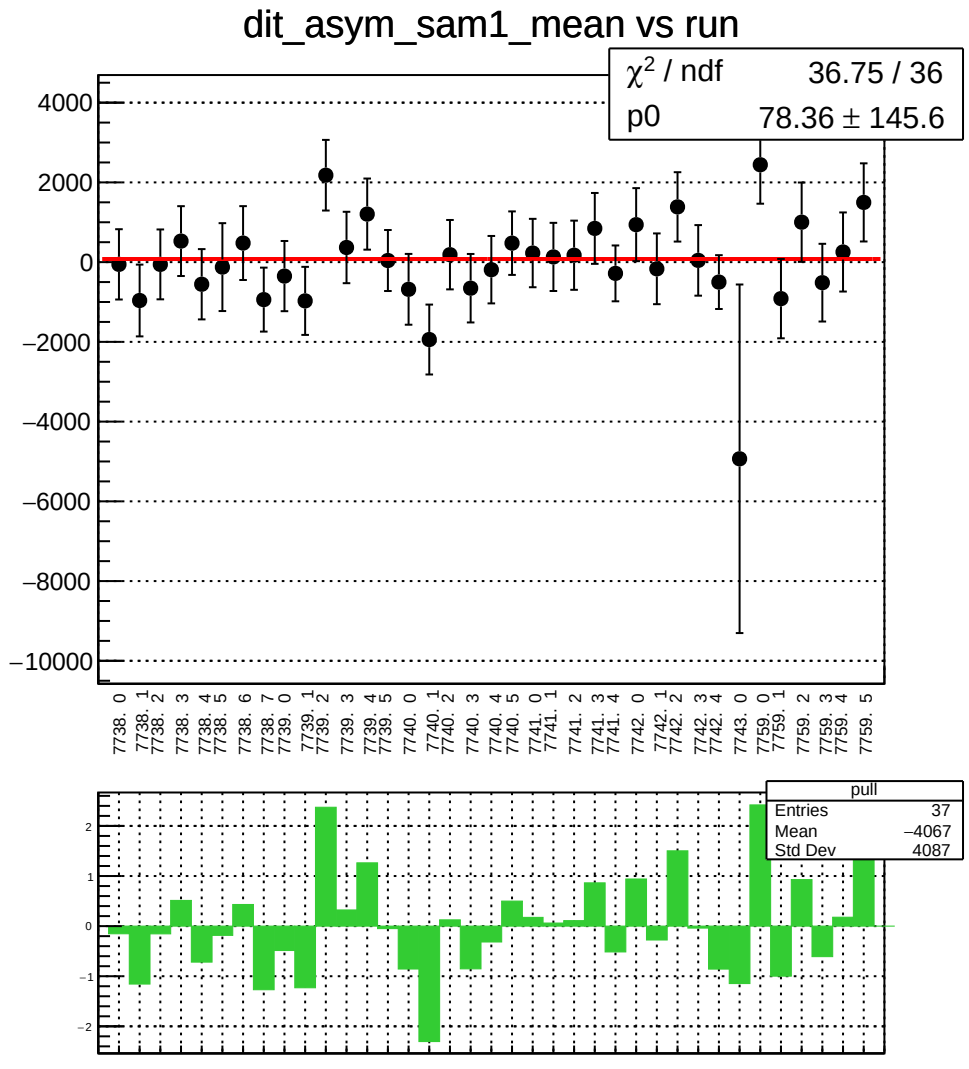

pull1D
Entries 37
Mean −0.004943
Std Dev 1.037
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

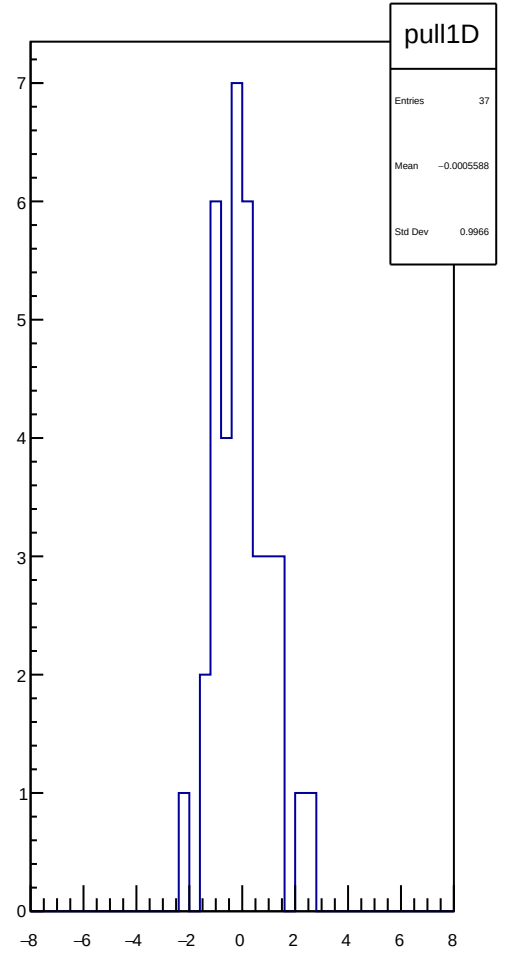

asym_atr2_correction_rms vs run
χ² / ndf 8.296e+04 / 36
p0 1.264e+04 ± 16.2
20000
18000
16000
14000
12000
10000
8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

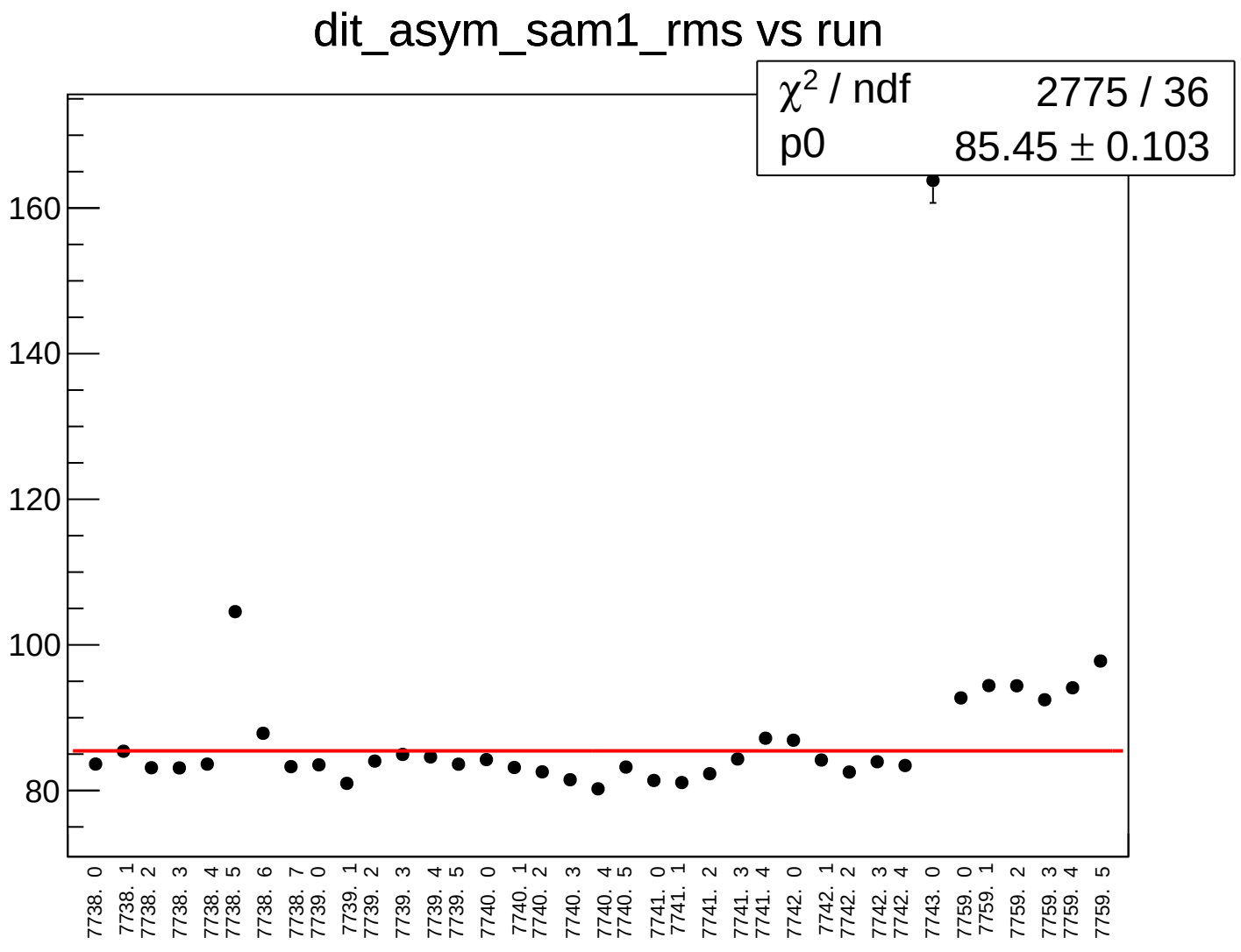

asym_atr2_mean vs run
×10^3
χ² / ndf 36.45 / 36
p0 −2715 ± 2.765e+04
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −2333
Std Dev 2351
1.5
1
0.5
0
−0.5
−1
−1.5
−2

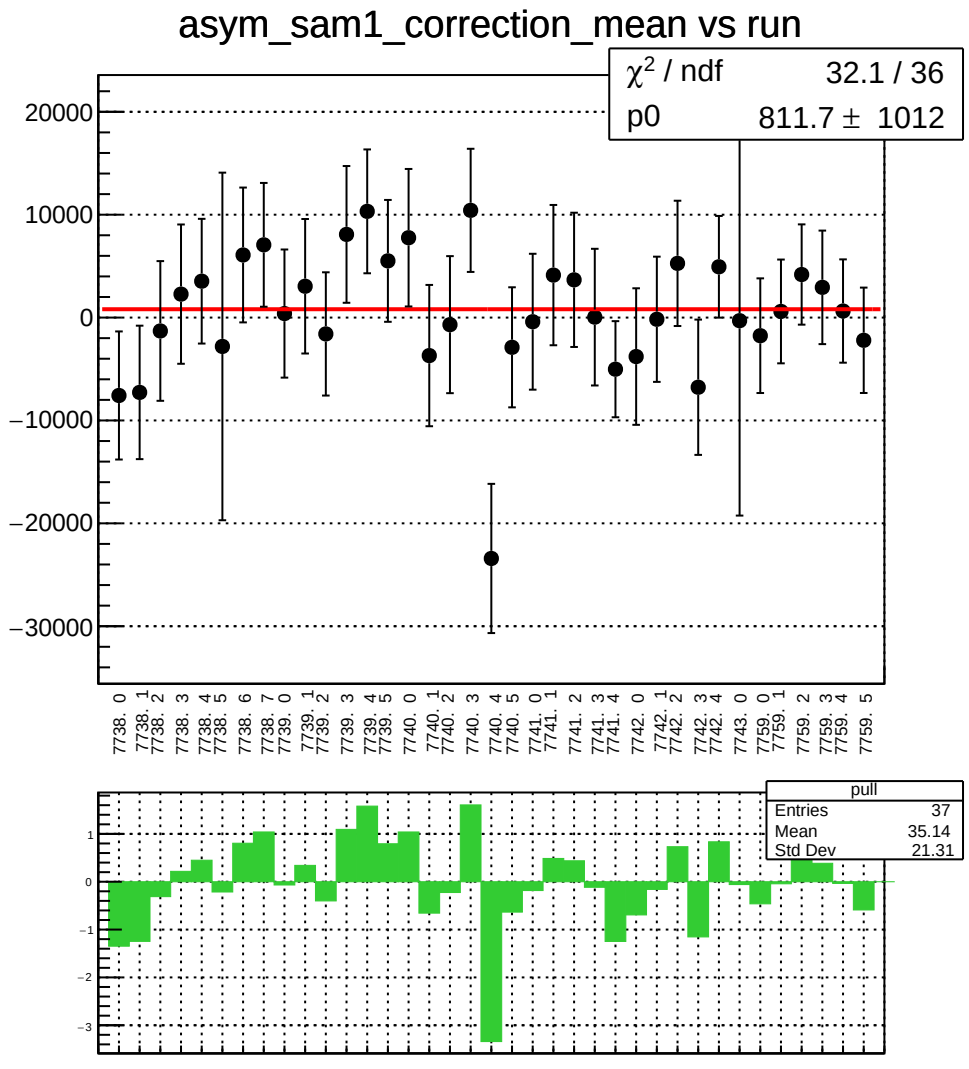

pull1D
Entries 37
Mean 0.0003797
Std Dev 0.9925
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

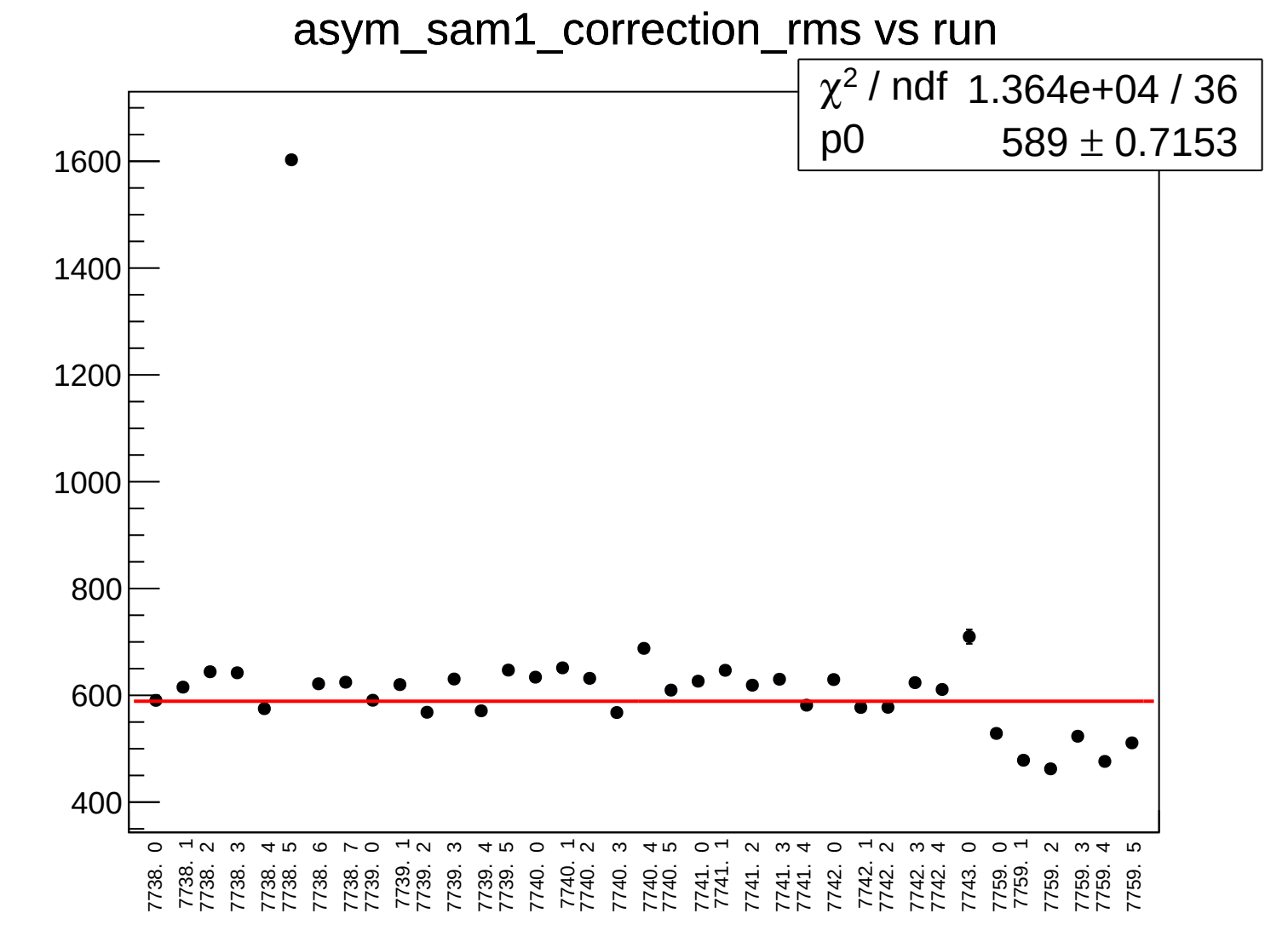

asym_atr2_rms vs run
χ² / ndf 9683 / 36
p0 1.615e+04 ± 19.55
20000
19000
18000
17000
16000
15000
14000
13000
12000
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

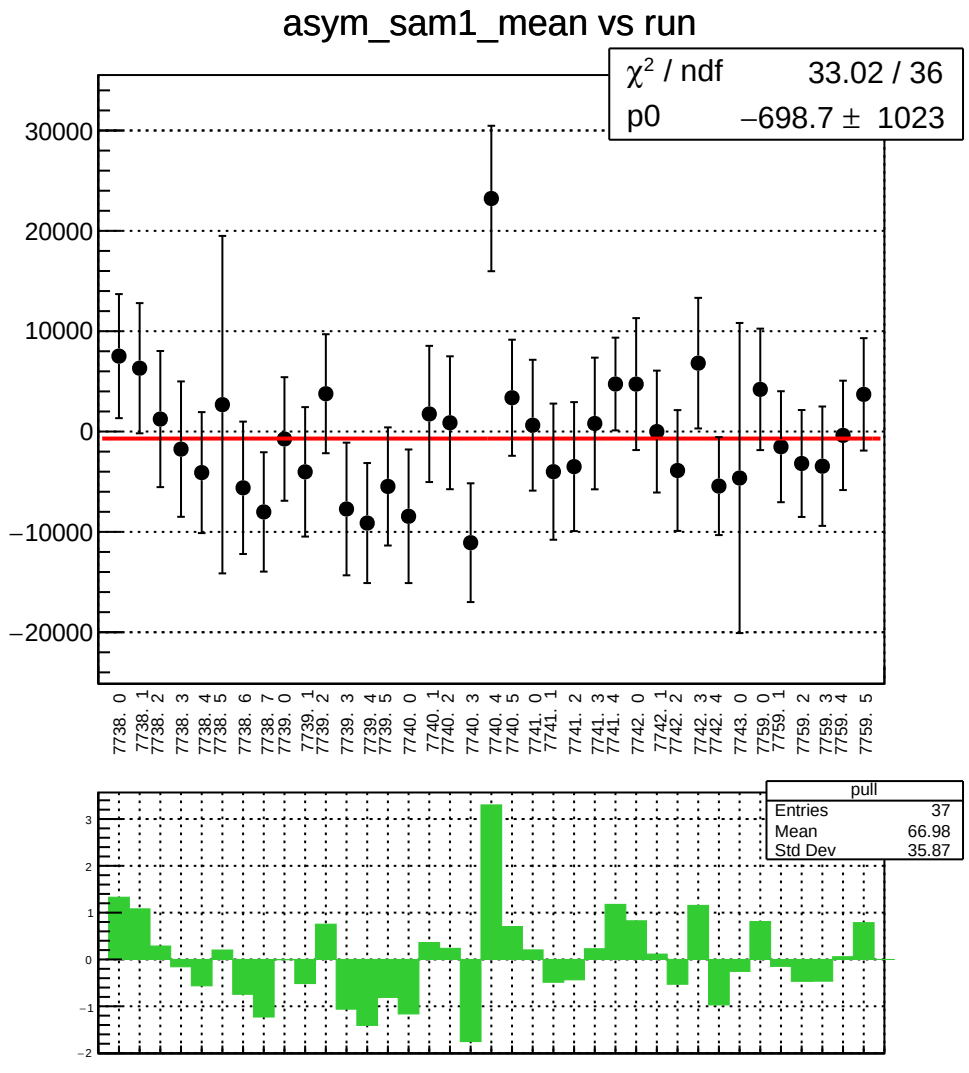

dit_asym_sam1_mean vs run
χ² / ndf 36.75 / 36
p0 78.36 ± 145.6
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4067
Std Dev 4087
2
1
0
−1
−2

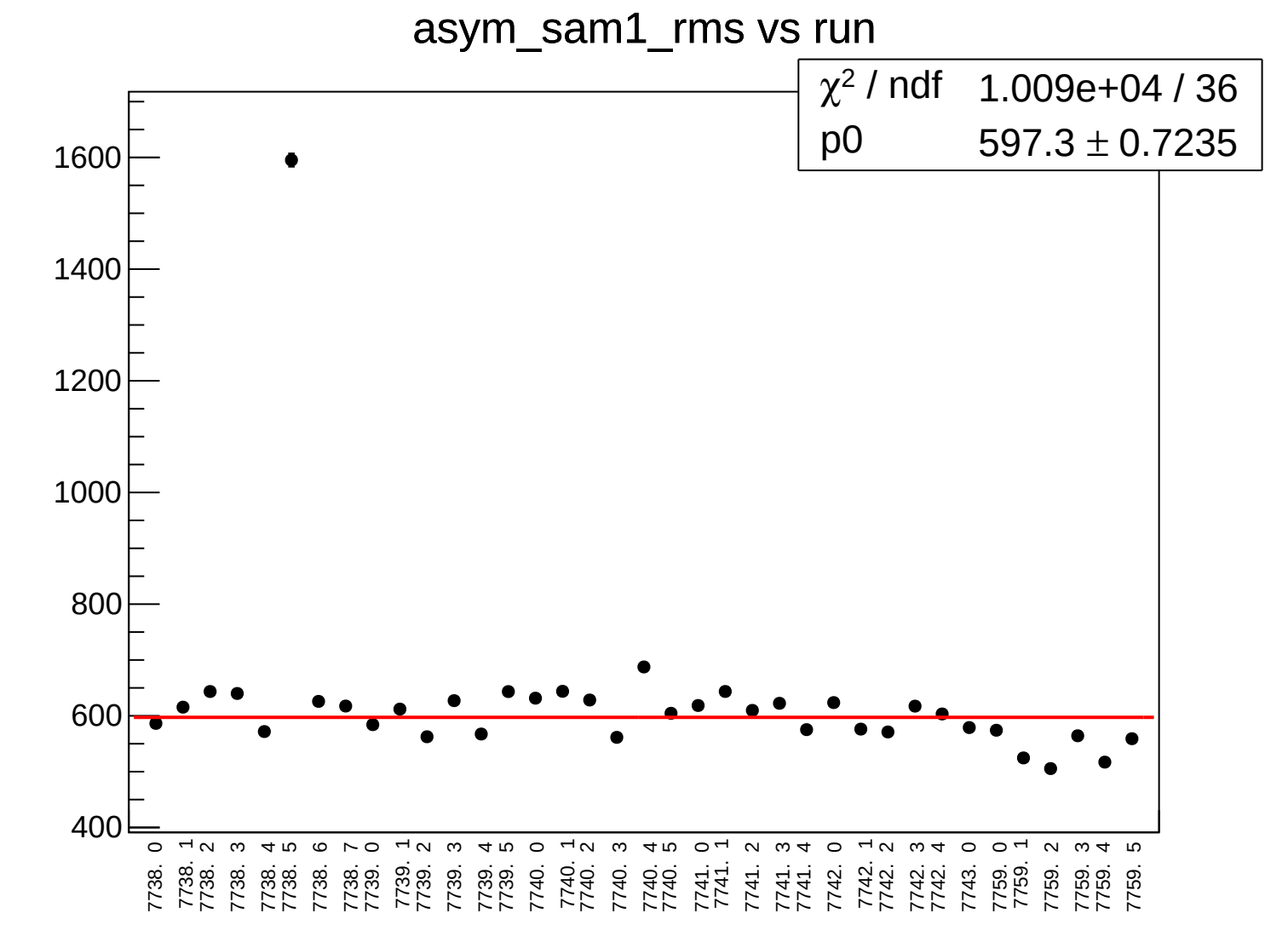

pull1D
Entries 37
Mean −0.0005588
Std Dev 0.9966
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

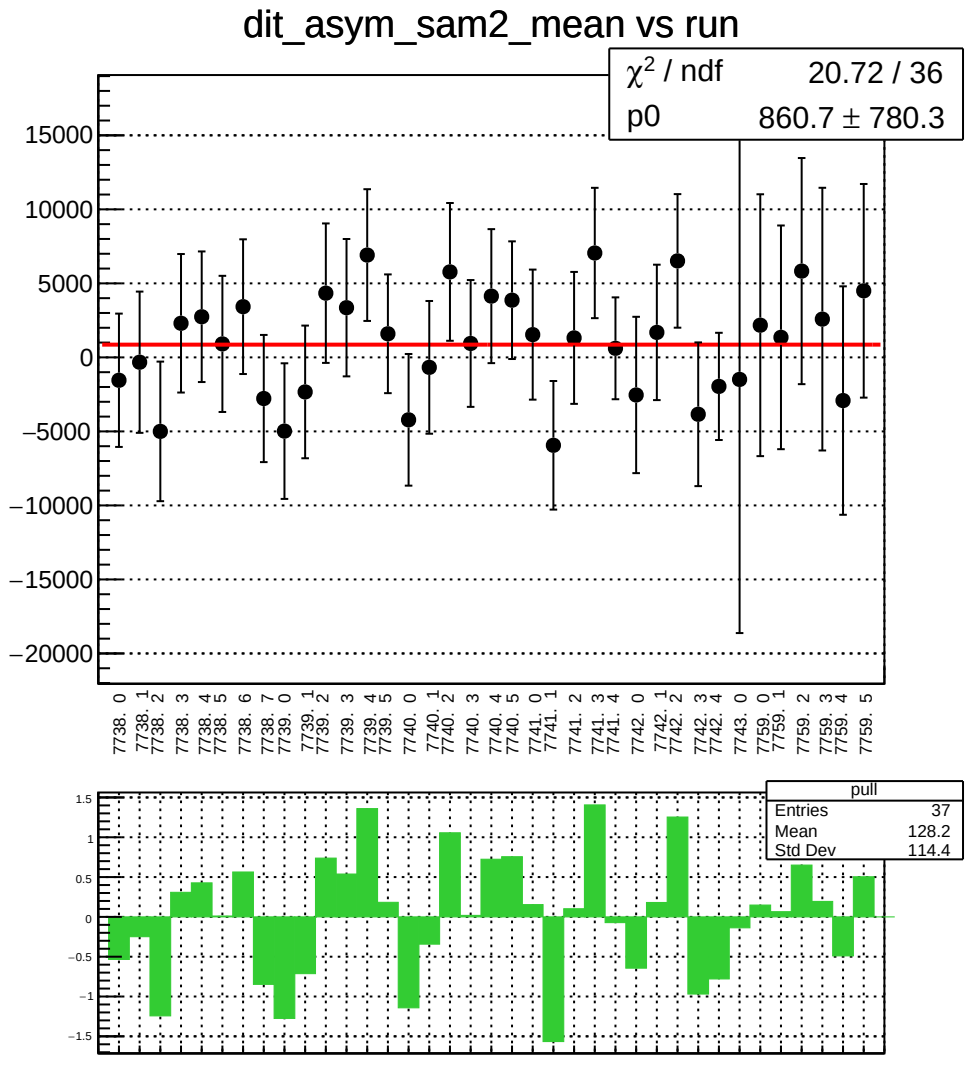

dit_asym_sam1_rms vs run
χ² / ndf 2775 / 36
p0 85.45 ± 0.103
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

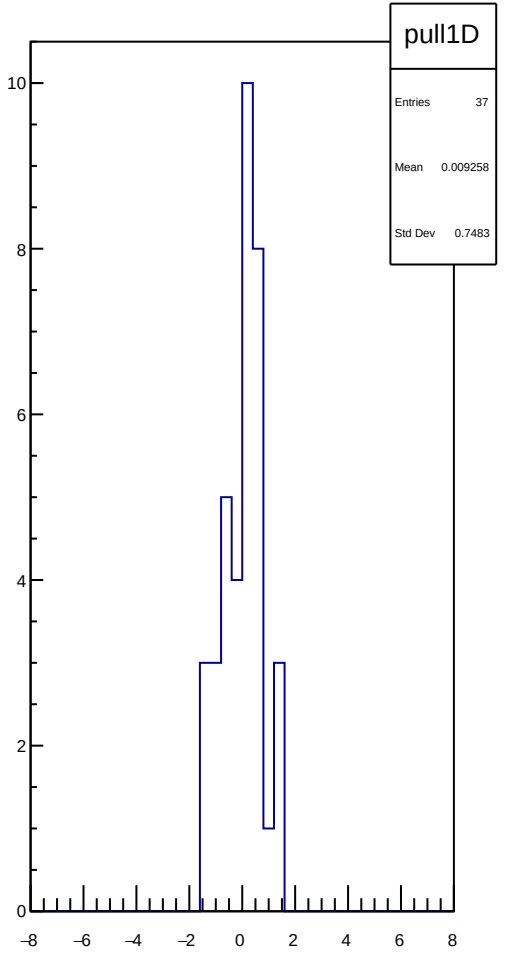

asym_sam1_correction_mean vs run
χ² / ndf 32.1 / 36
p0 811.7 ± 1012
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.14
Std Dev 21.31
1
0
−1
−2
−3
pull1D
Entries 37
Mean −0.01757
Std Dev 0.9312
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

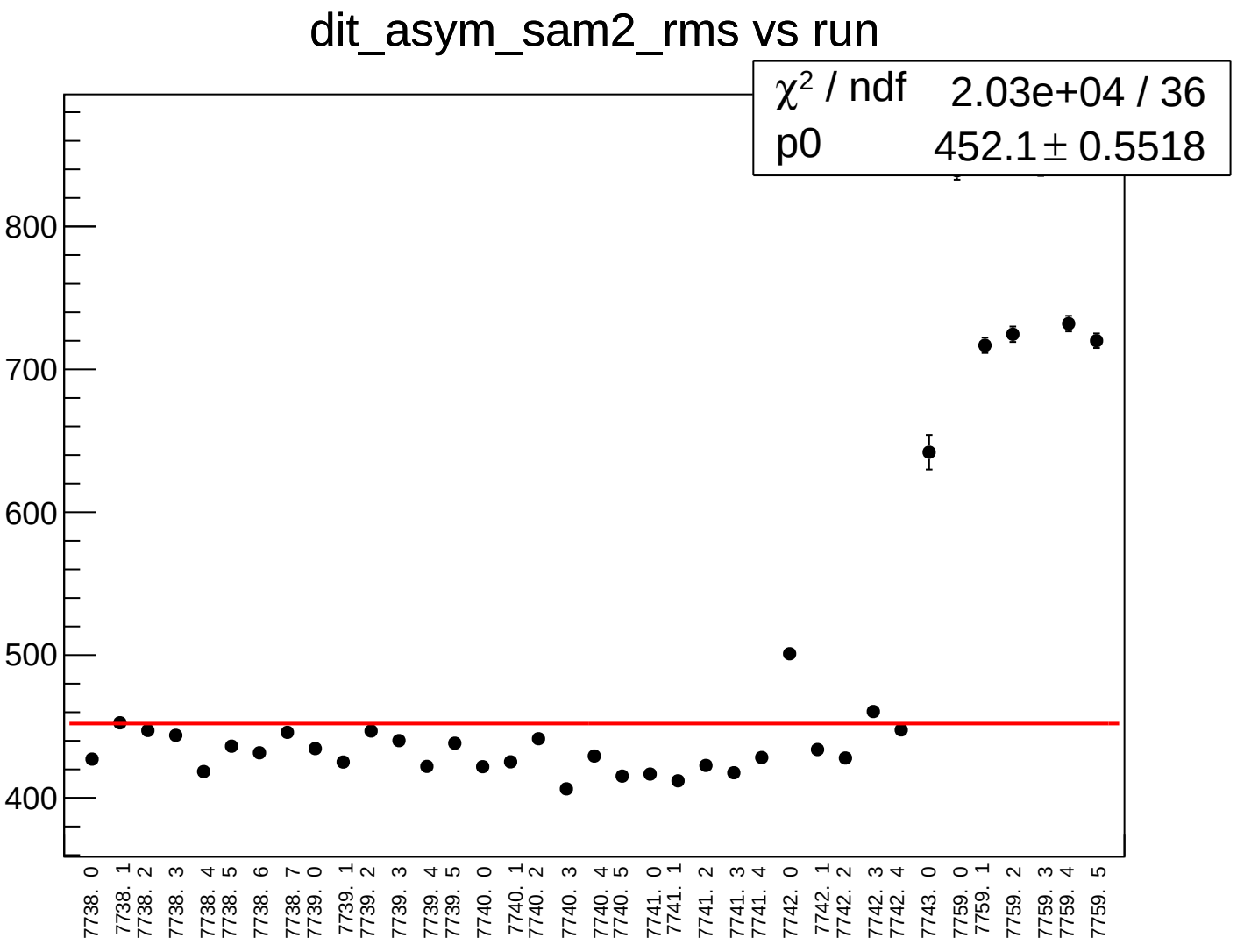

asym_sam1_correction_rms vs run
χ² / ndf 1.364e+04 / 36
p0 589 ± 0.7153
1600
1400
1200
1000
800
600
400
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

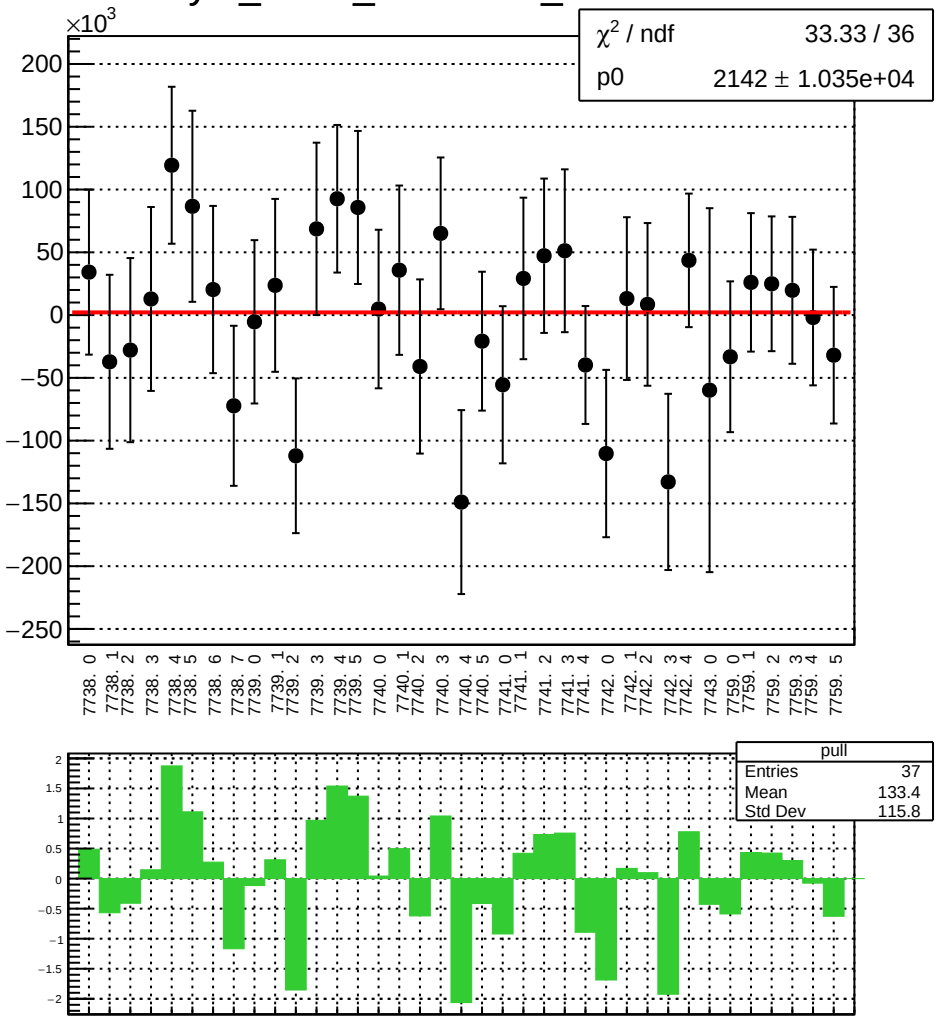

asym_sam1_mean vs run
χ² / ndf 33.02 / 36
p0 −698.7 ± 1023
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 66.98
Std Dev 35.87
3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.0121
Std Dev 0.9446
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

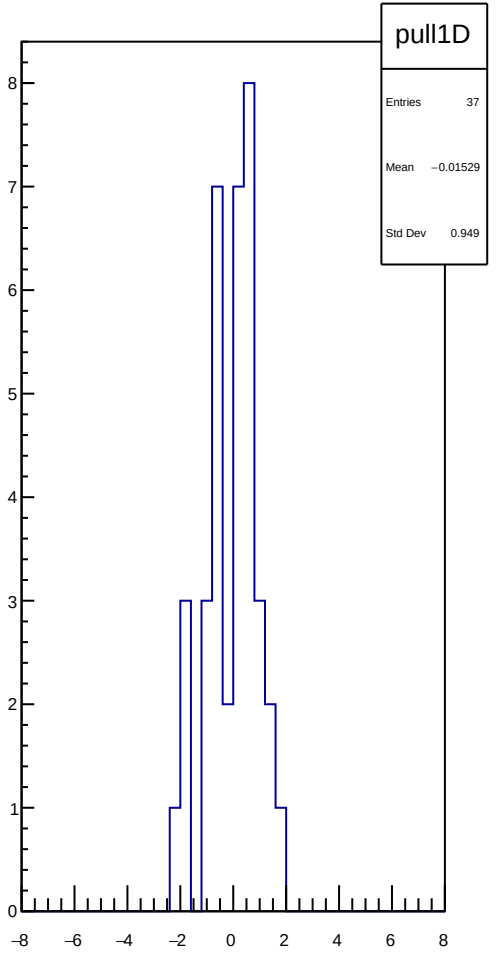

asym_sam1_rms vs run
χ² / ndf 1.009e+04 / 36
p0 597.3 ± 0.7235
1600
1400
1200
1000
800
600
400
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

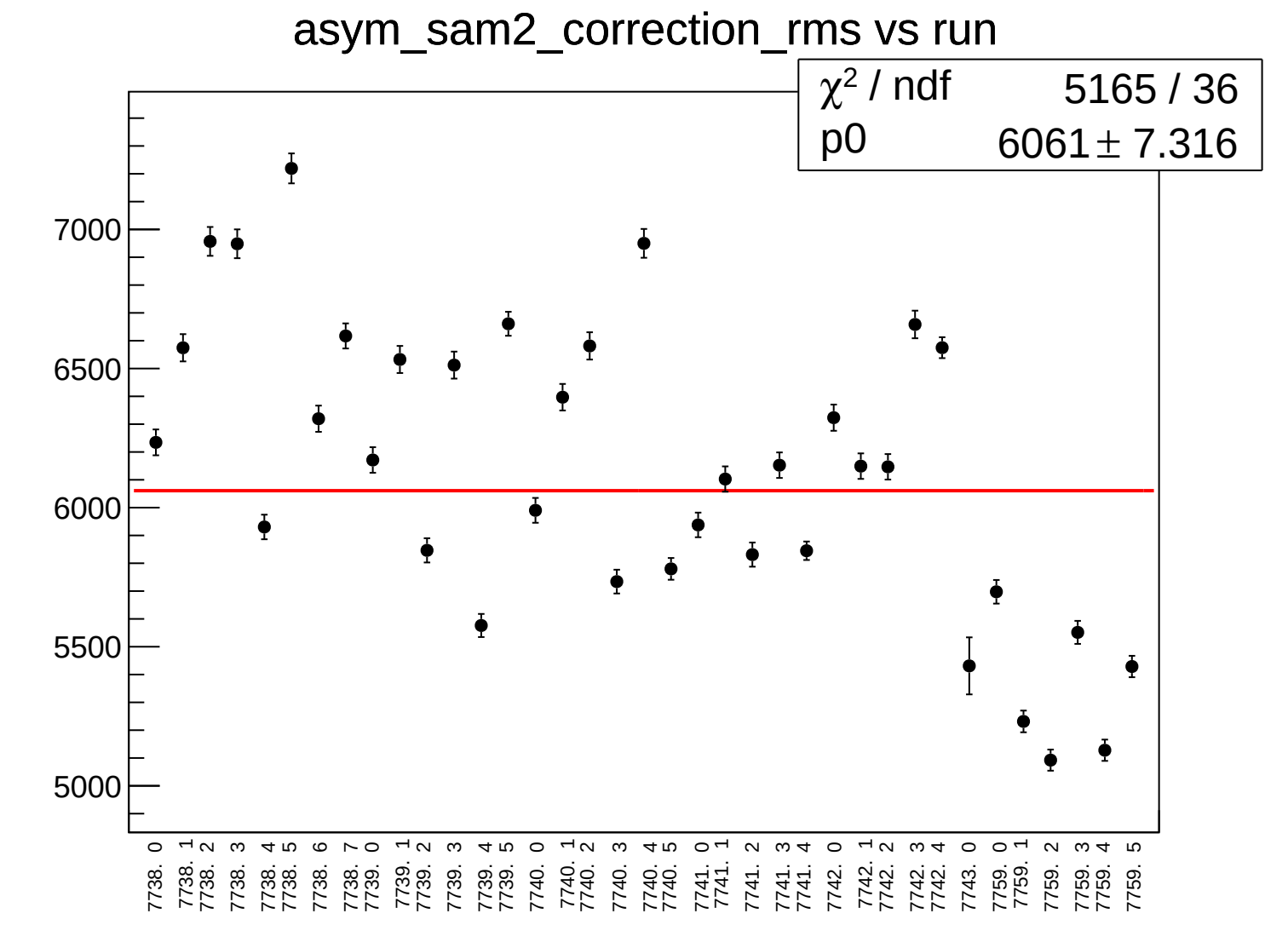

dit_asym_sam2_mean vs run
χ² / ndf 20.72 / 36
p0 860.7 ± 780.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 128.2
Std Dev 114.4
1.5
1
0.5
0
−0.5
−1
−1.5

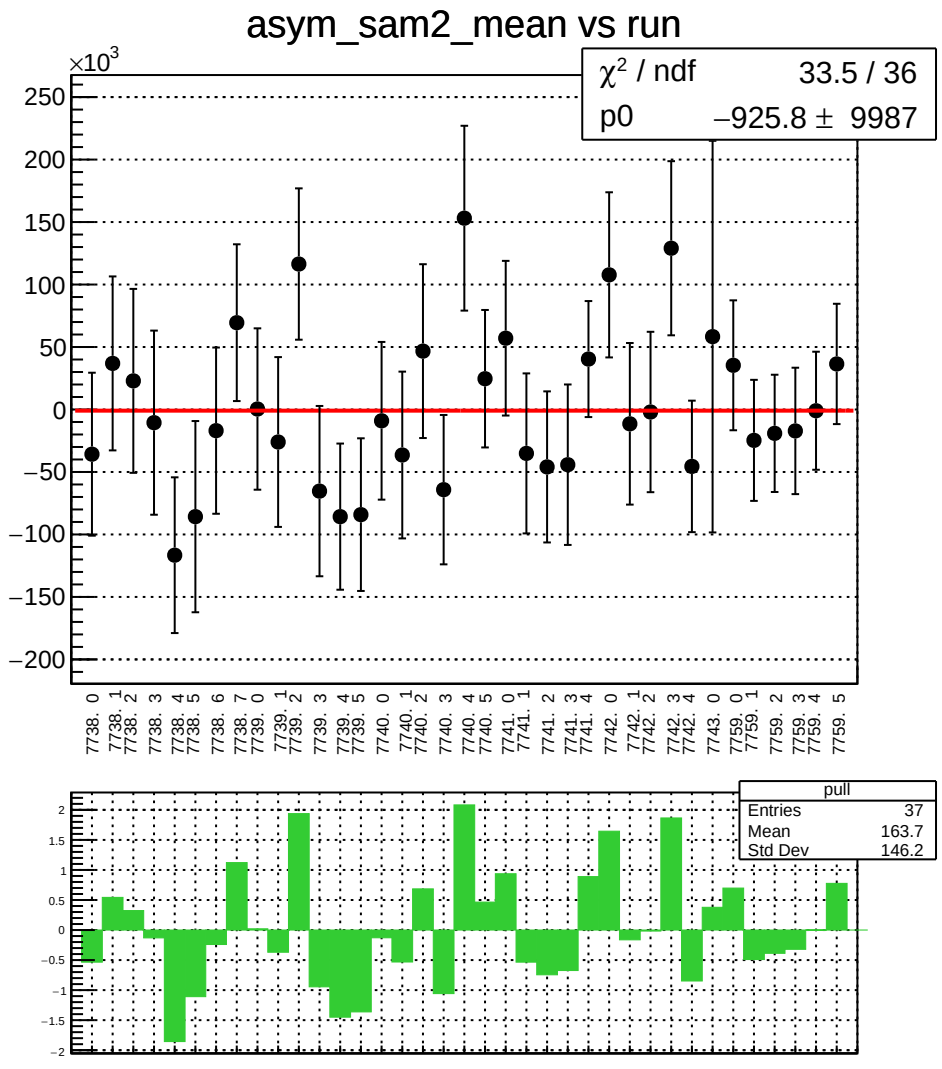

pull1D
Entries 37
Mean 0.009258
Std Dev 0.7483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

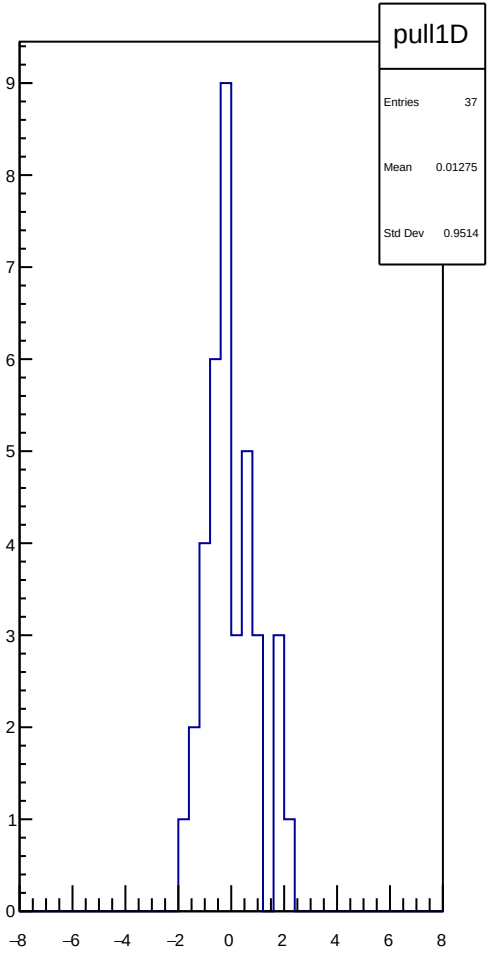

dit_asym_sam2_rms vs run
χ² / ndf 2.03e+04 / 36
p0 452.1 ± 0.5518
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

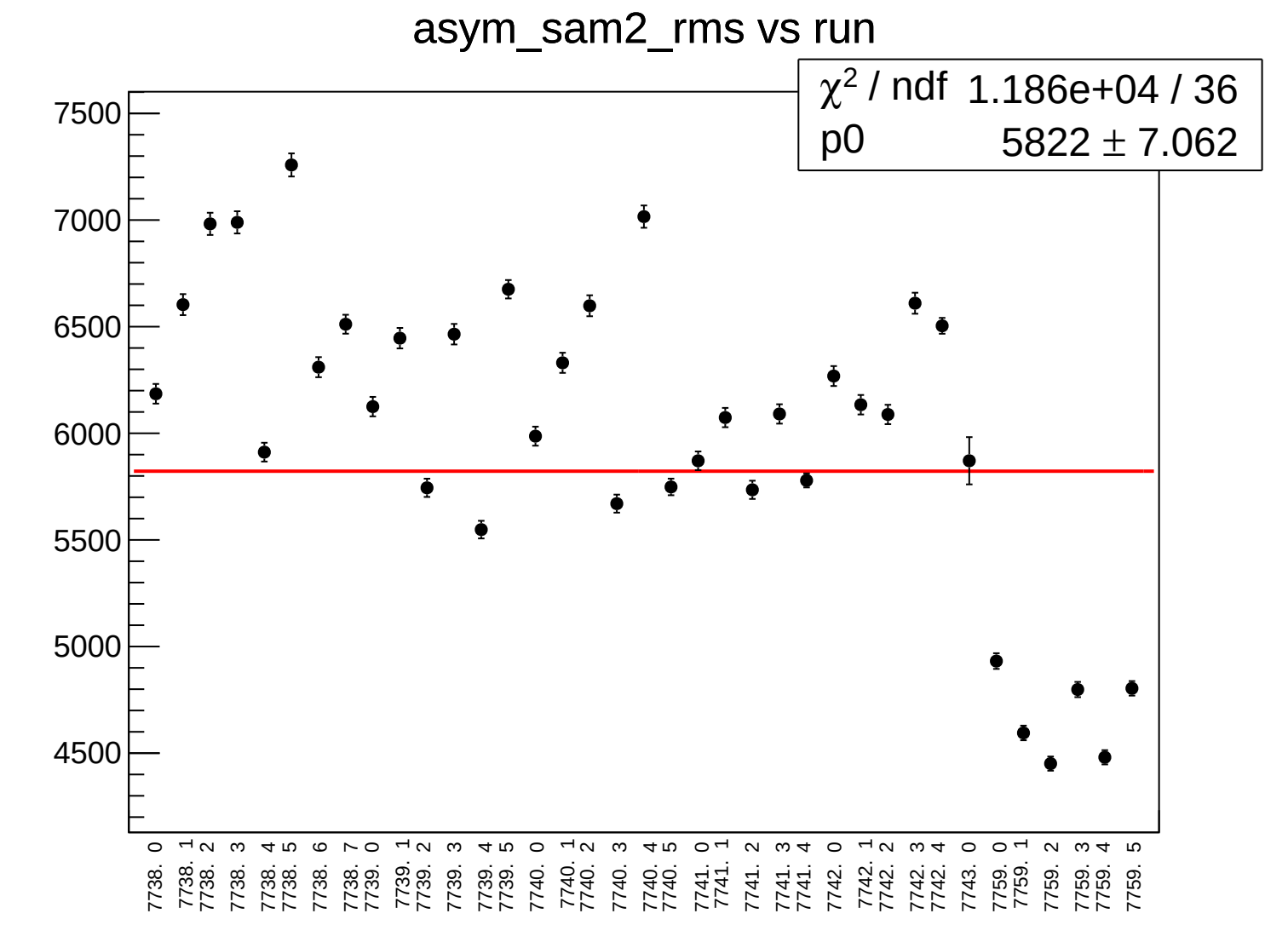

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 33.33 / 36
p0 2142 ± 1.035e+04
200
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 133.4
Std Dev 115.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

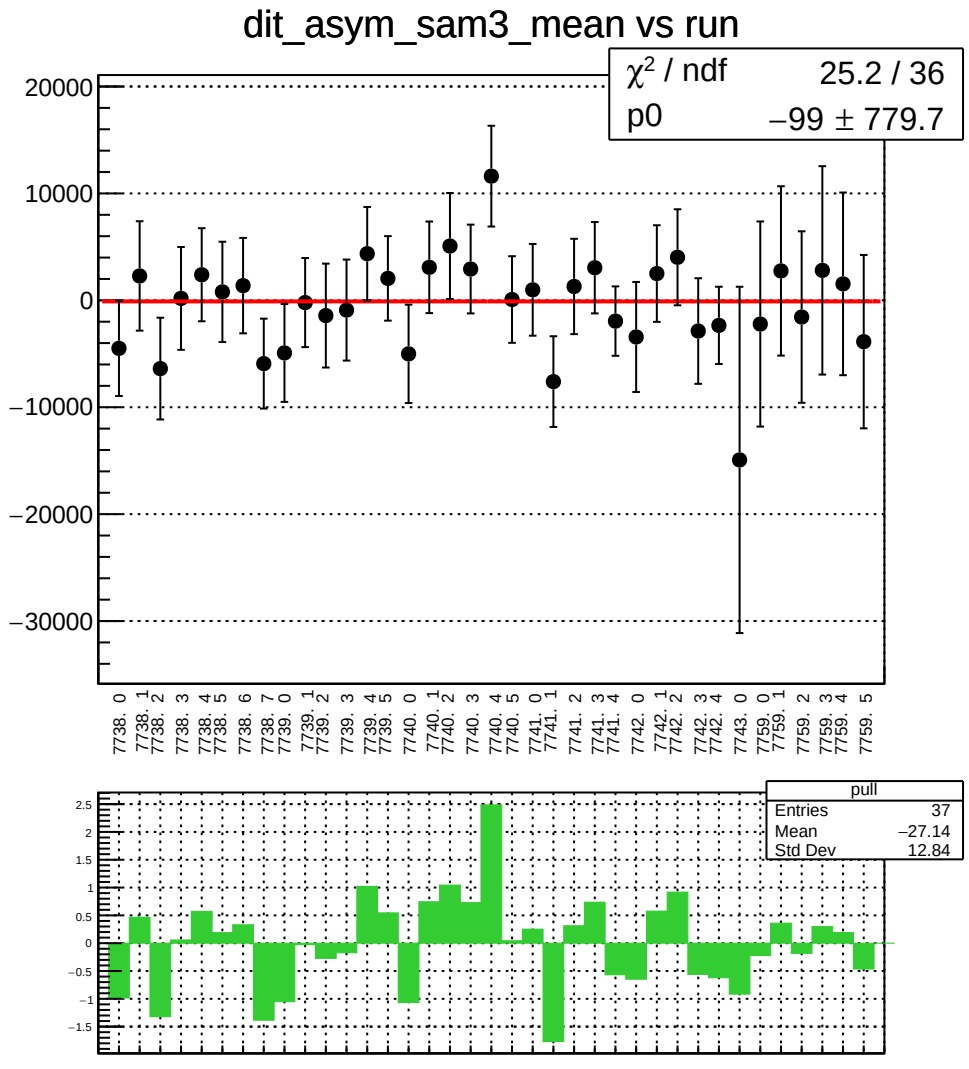

pull1D
Entries 37
Mean −0.01529
Std Dev 0.949
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

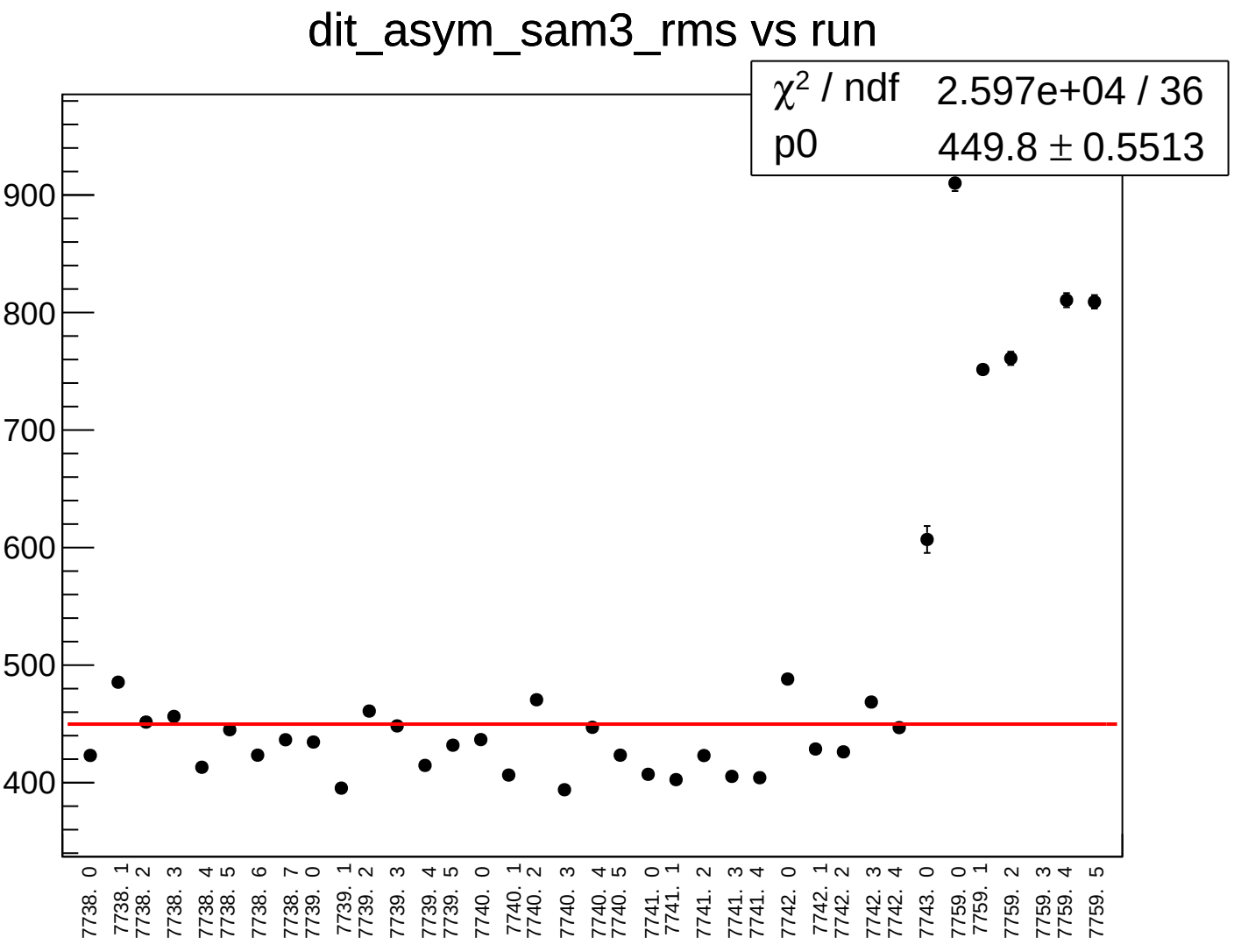

asym_sam2_correction_rms vs run
χ² / ndf 5165 / 36
p0 6061 ± 7.316
7000
6500
6000
5500
5000
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

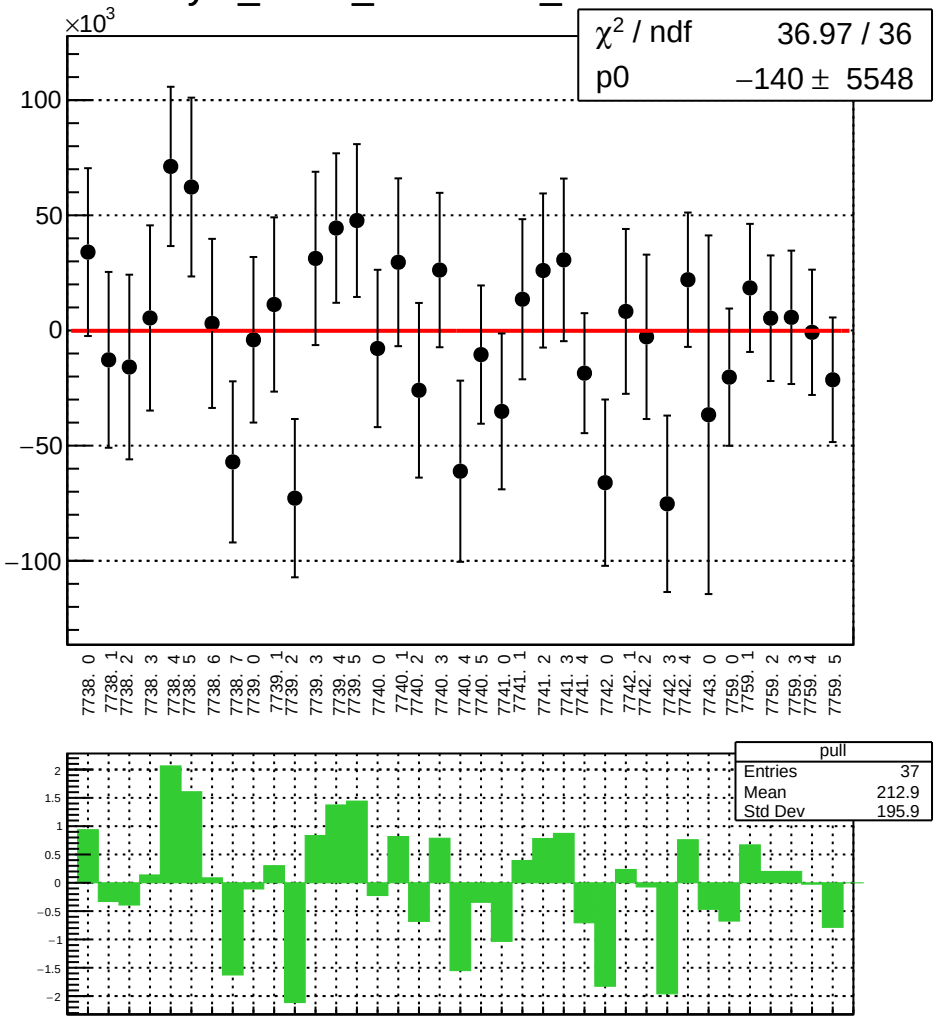

asym_sam2_mean vs run
×10^3
χ² / ndf 33.5 / 36
p0 −925.8 ± 9987
250
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 163.7
Std Dev 146.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

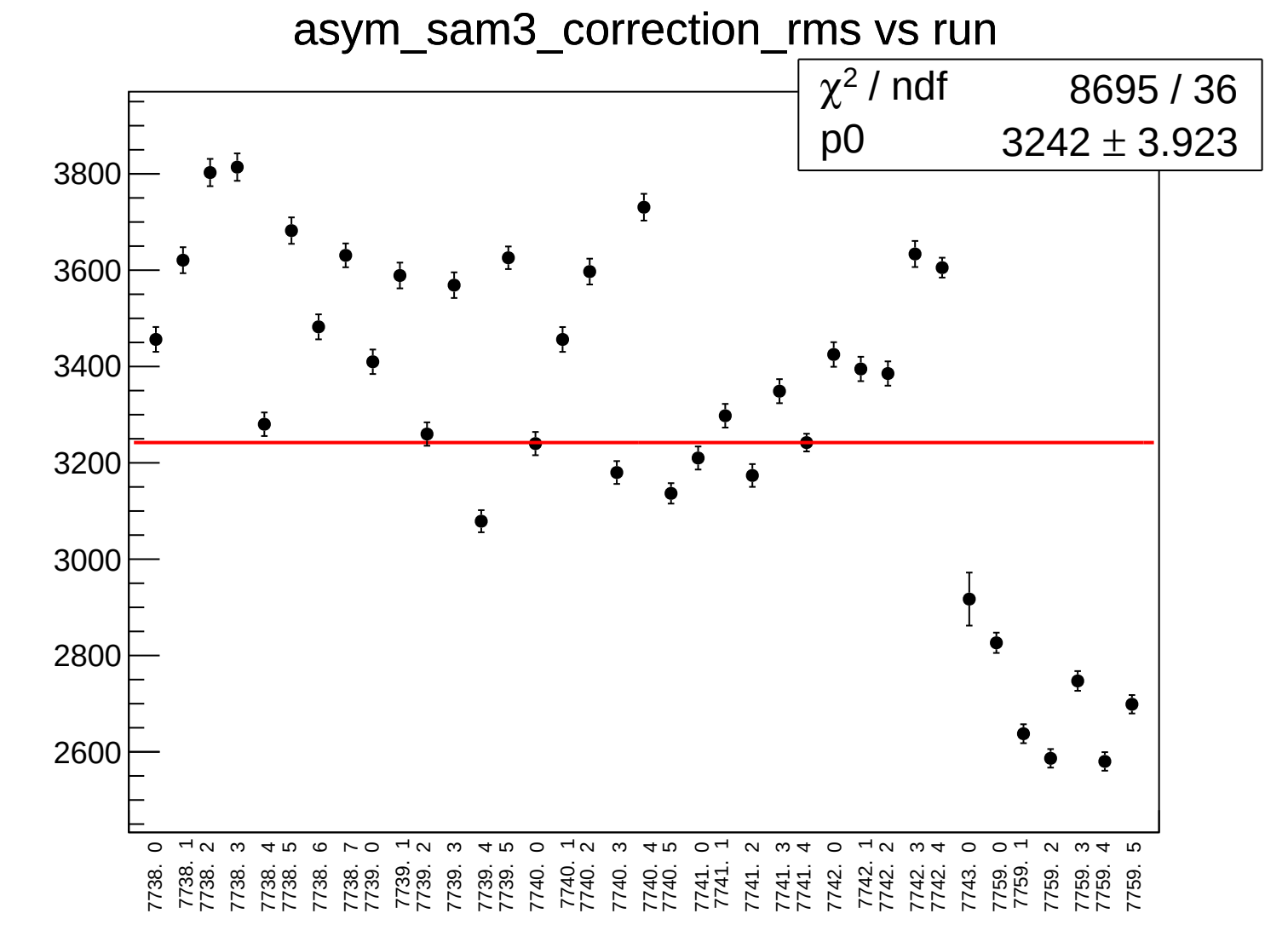

pull1D
Entries 37
Mean 0.01275
Std Dev 0.9514
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

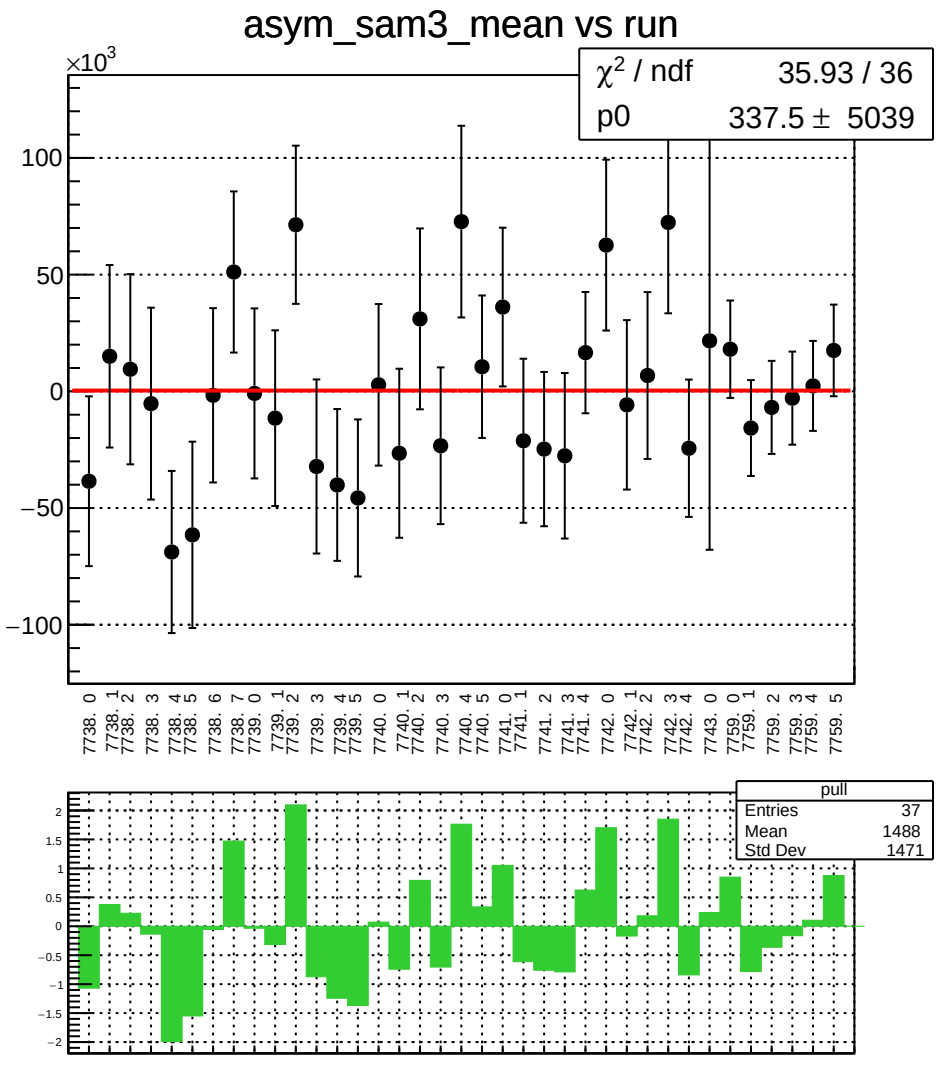

asym_sam2_rms vs run
χ² / ndf 1.186e+04 / 36
p0 5822 ± 7.062
7500
7000
6500
6000
5500
5000
4500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

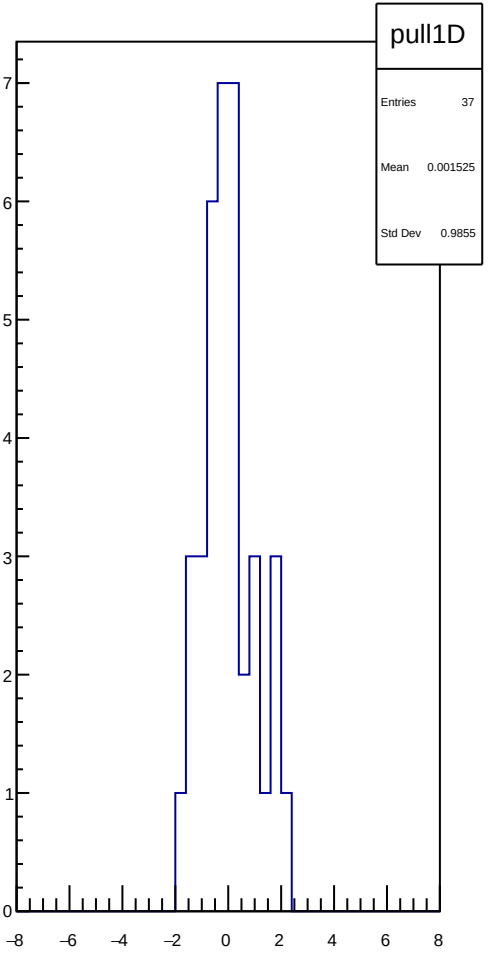

dit_asym_sam3_mean vs run
χ² / ndf 25.2 / 36
p0 −99 ± 779.7
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −27.14
Std Dev 12.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.009569
Std Dev 0.8253
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

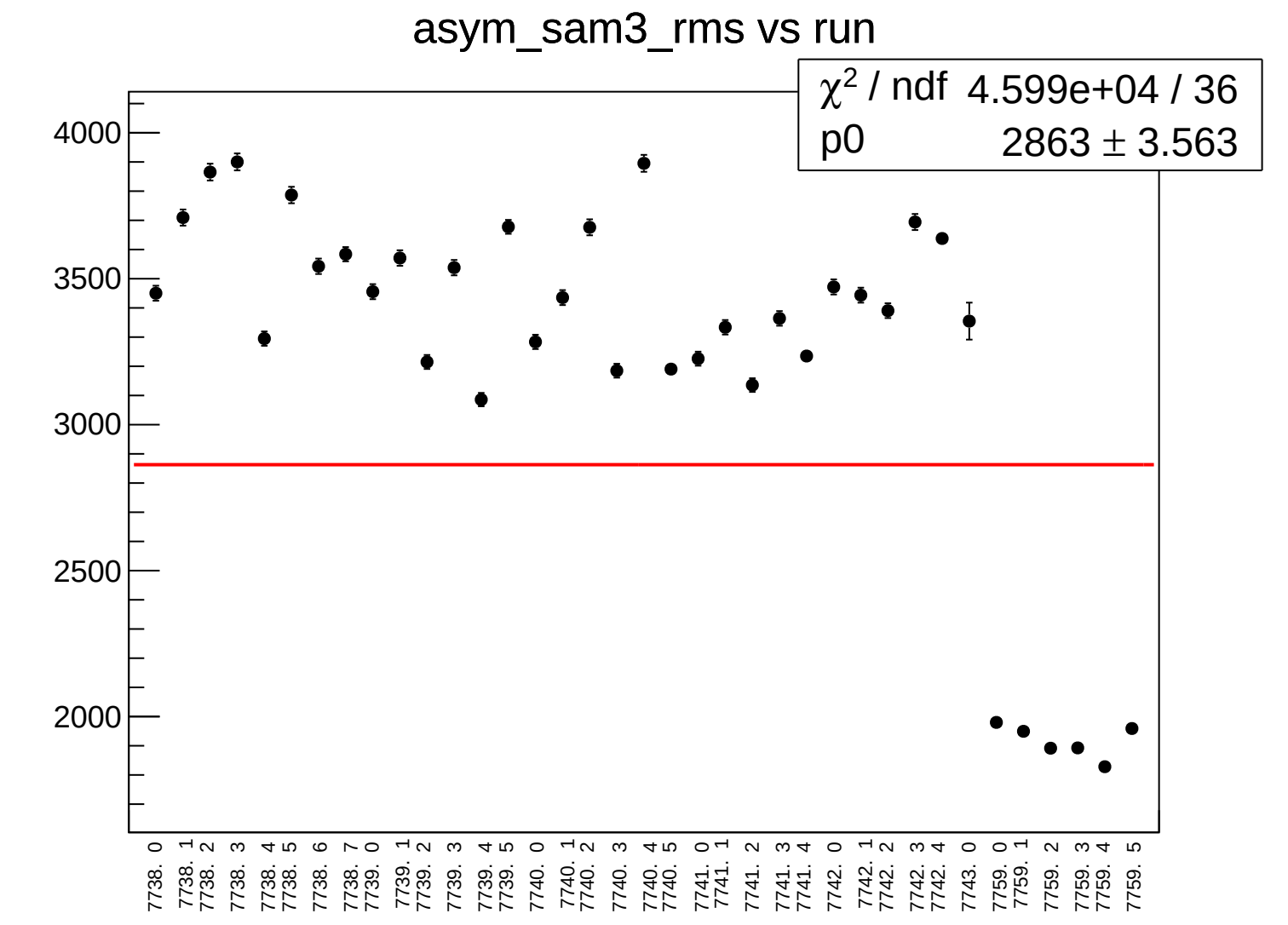

dit_asym_sam3_rms vs run
χ² / ndf 2.597e+04 / 36
p0 449.8 ± 0.5513
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

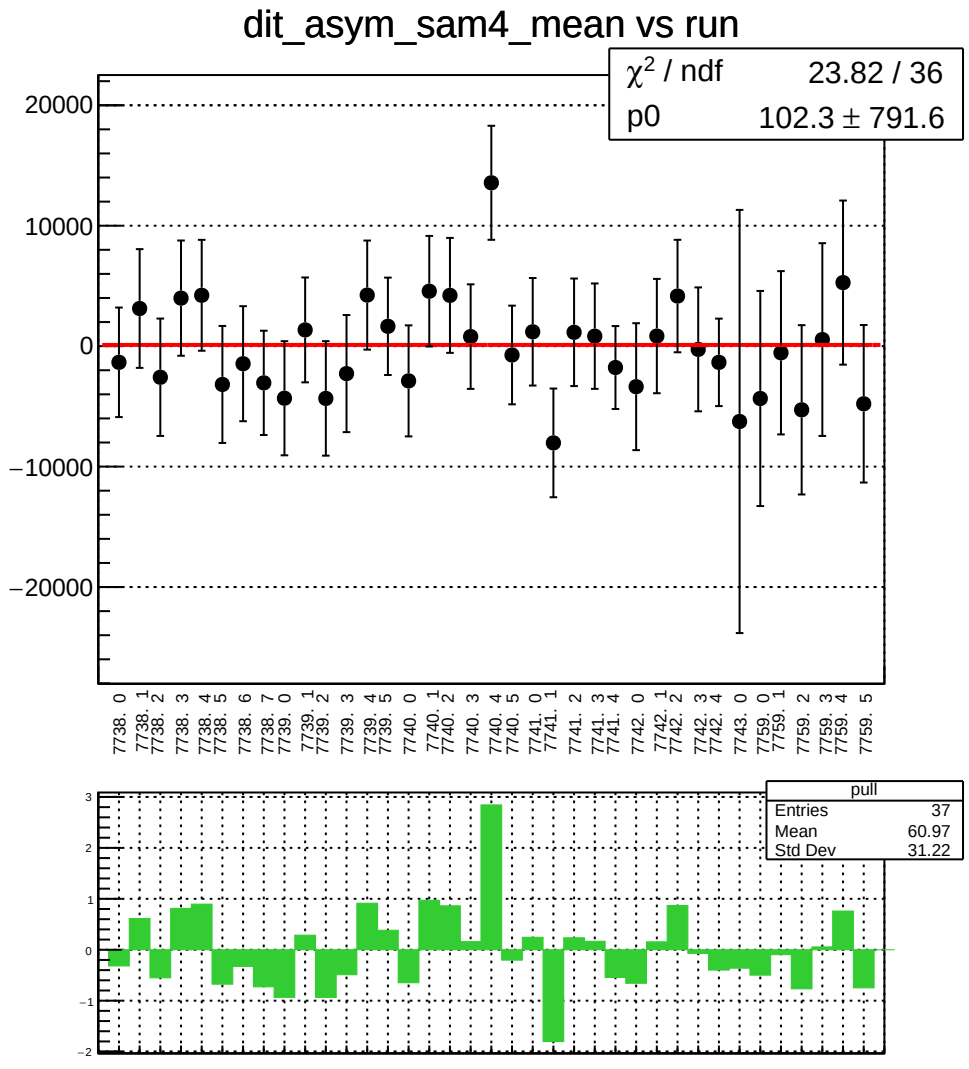

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 36.97 / 36
p0 −140 ± 5548
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 212.9
Std Dev 195.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01128
Std Dev 0.9995
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

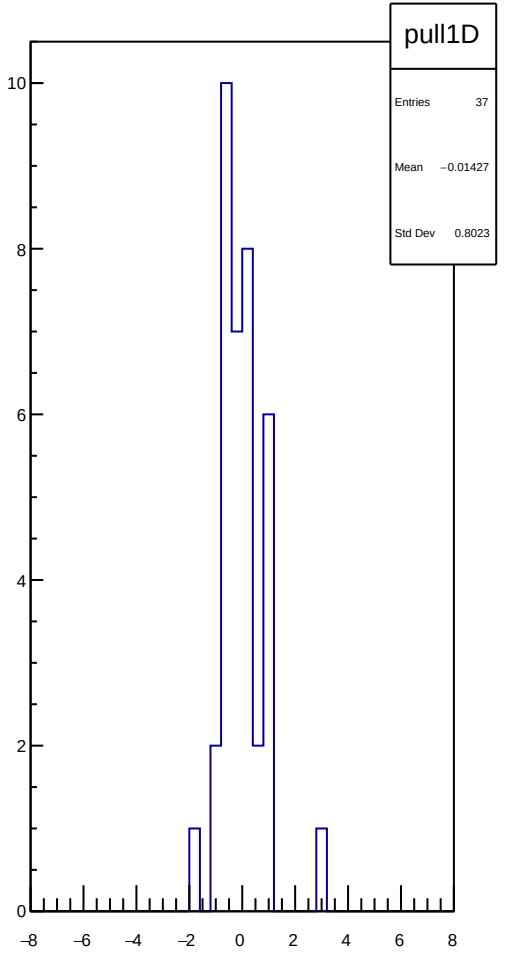

asym_sam3_correction_rms vs run
χ² / ndf 8695 / 36
p0 3242 ± 3.923
3800
3600
3400
3200
3000
2800
2600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

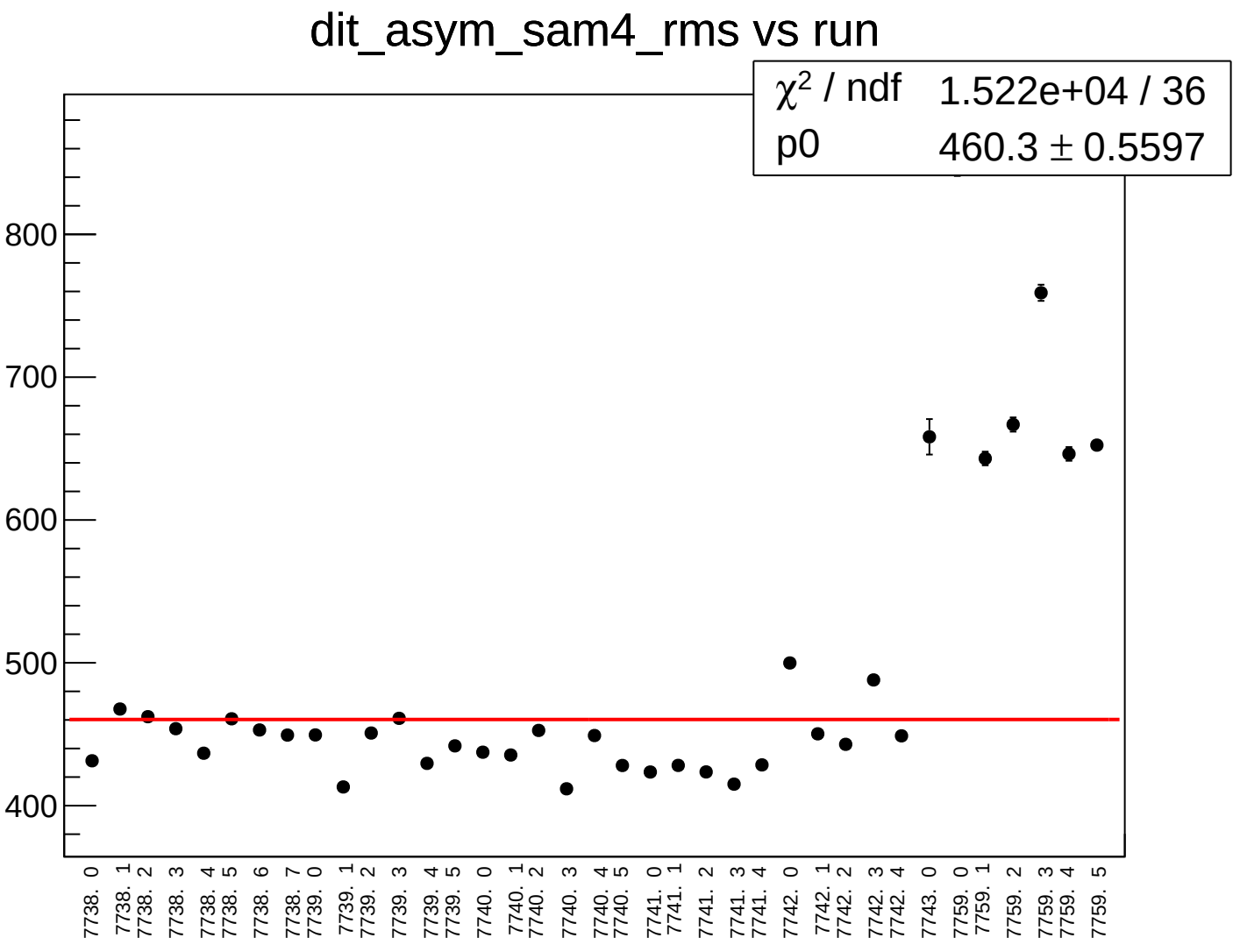

asym_sam3_mean vs run
×10^3
χ² / ndf 35.93 / 36
p0 337.5 ± 5039
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1488
Std Dev 1471
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

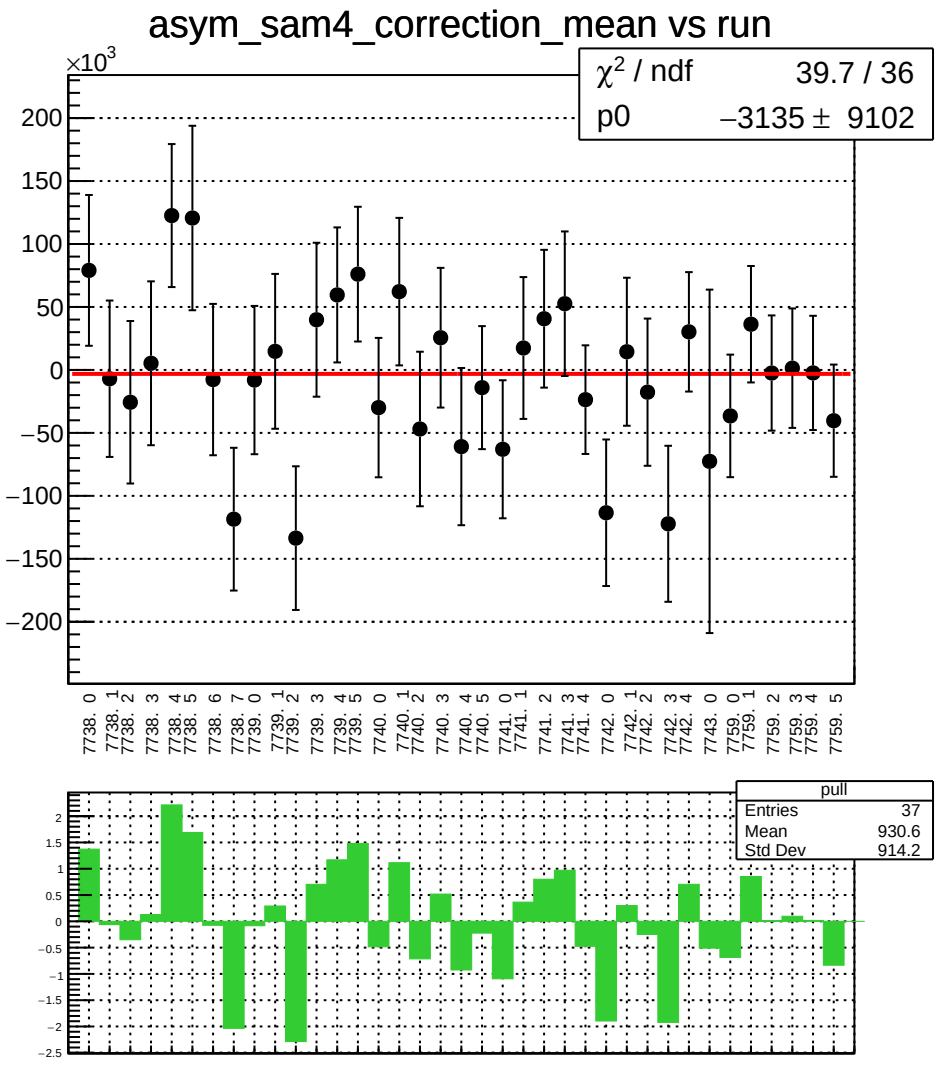

pull1D
Entries 37
Mean 0.001525
Std Dev 0.9855
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

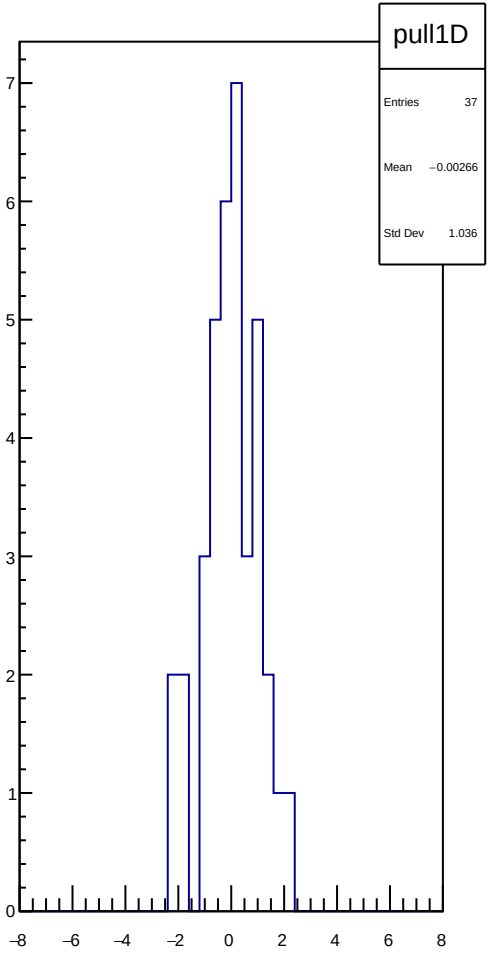

asym_sam3_rms vs run
χ² / ndf 4.599e+04 / 36
p0 2863 ± 3.563
4000
3500
3000
2500
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

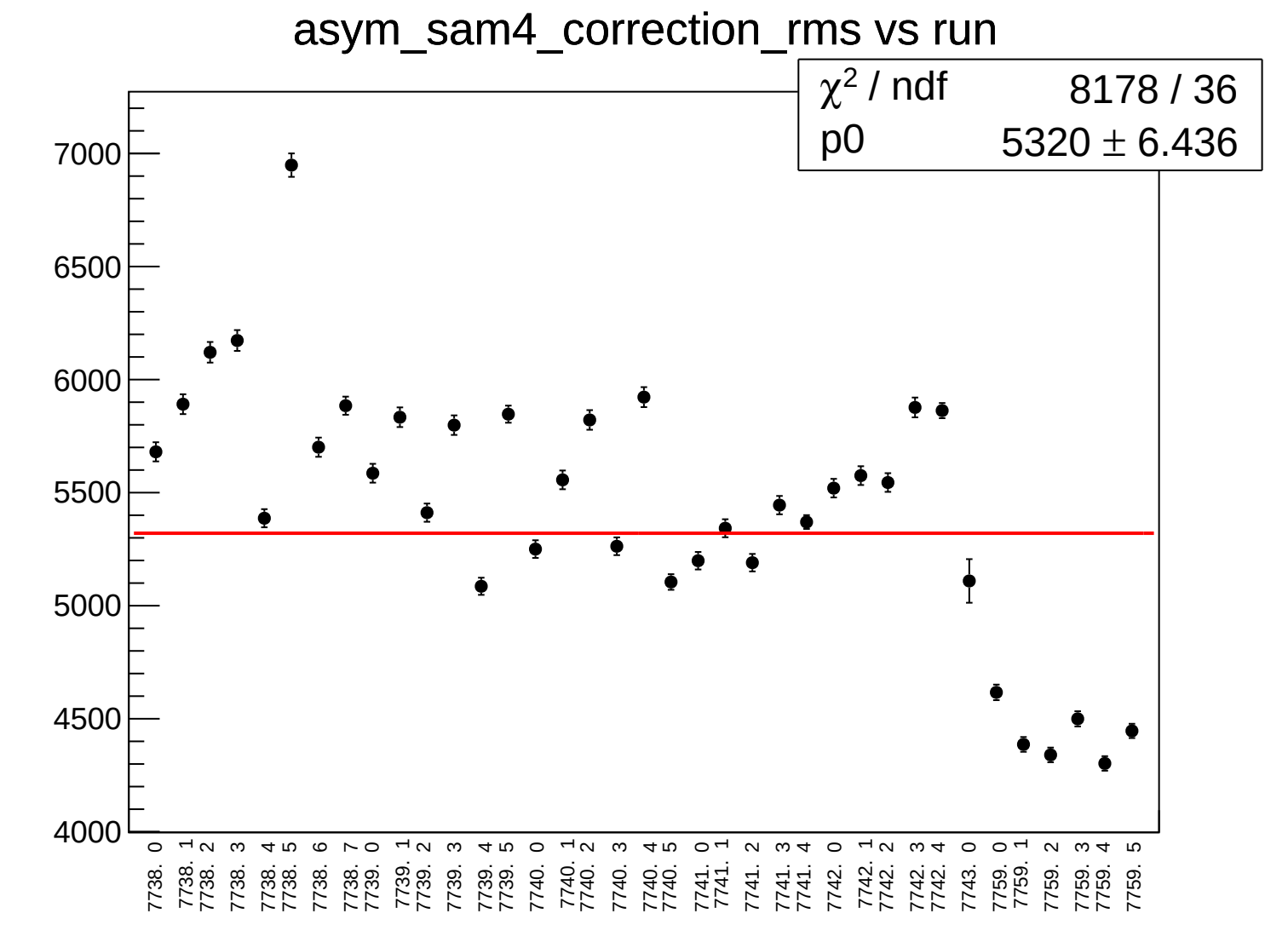

dit_asym_sam4_mean vs run
χ² / ndf 23.82 / 36
p0 102.3 ± 791.6
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 60.97
Std Dev 31.22
3
2
1
0
−1
−2

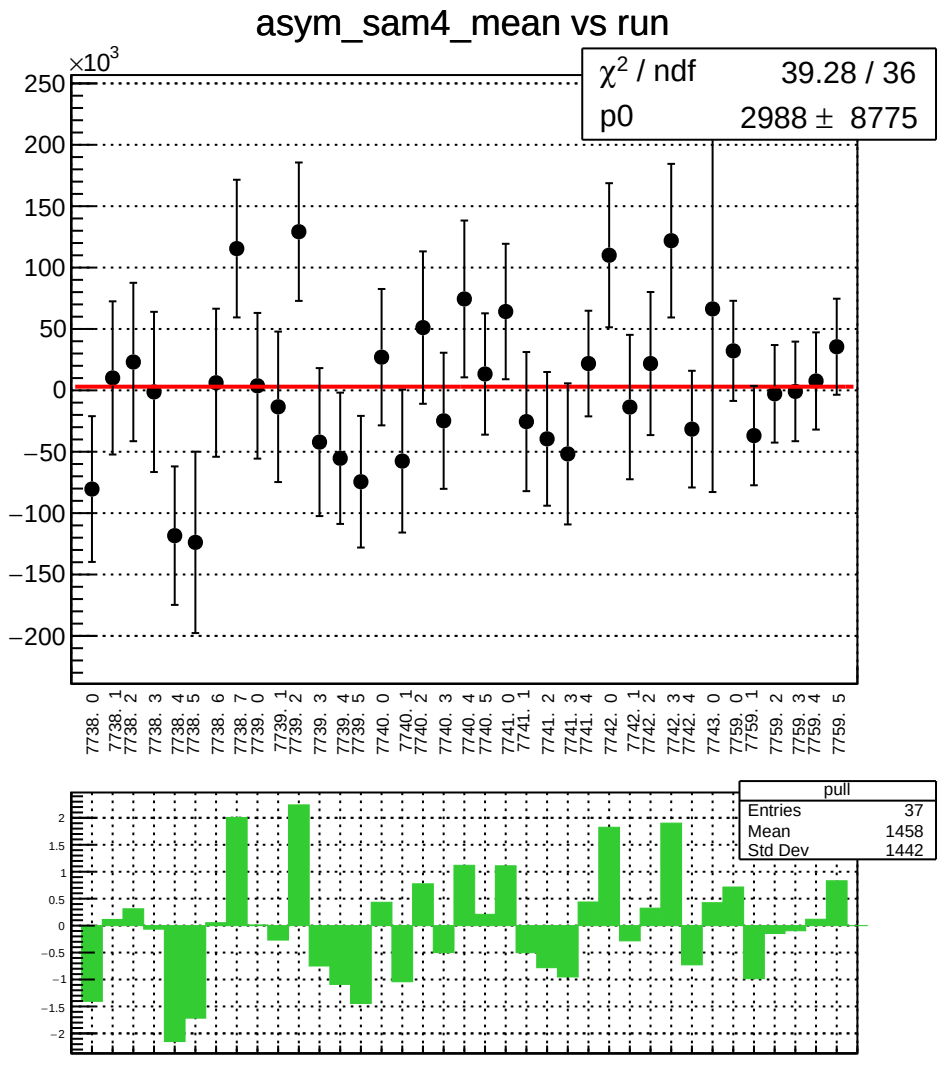

pull1D
Entries 37
Mean −0.01427
Std Dev 0.8023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

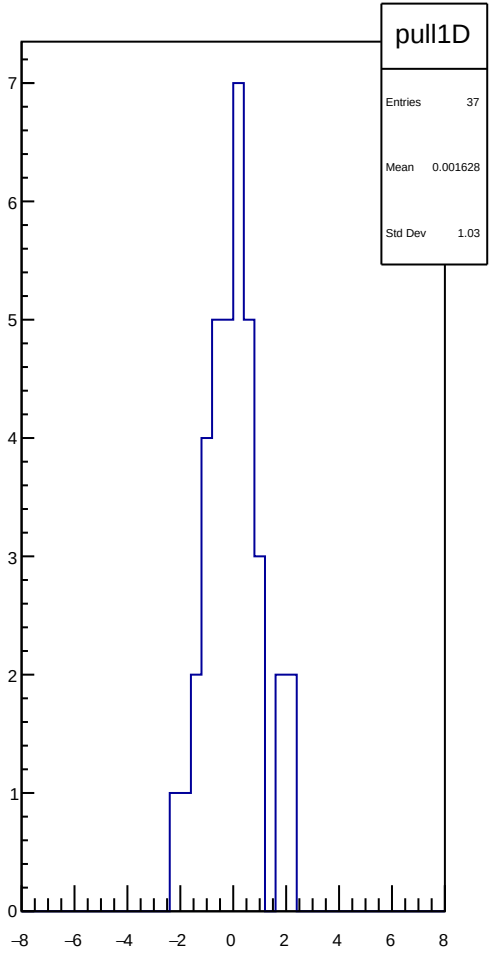

dit_asym_sam4_rms vs run
χ² / ndf 1.522e+04 / 36
p0 460.3 ± 0.5597
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

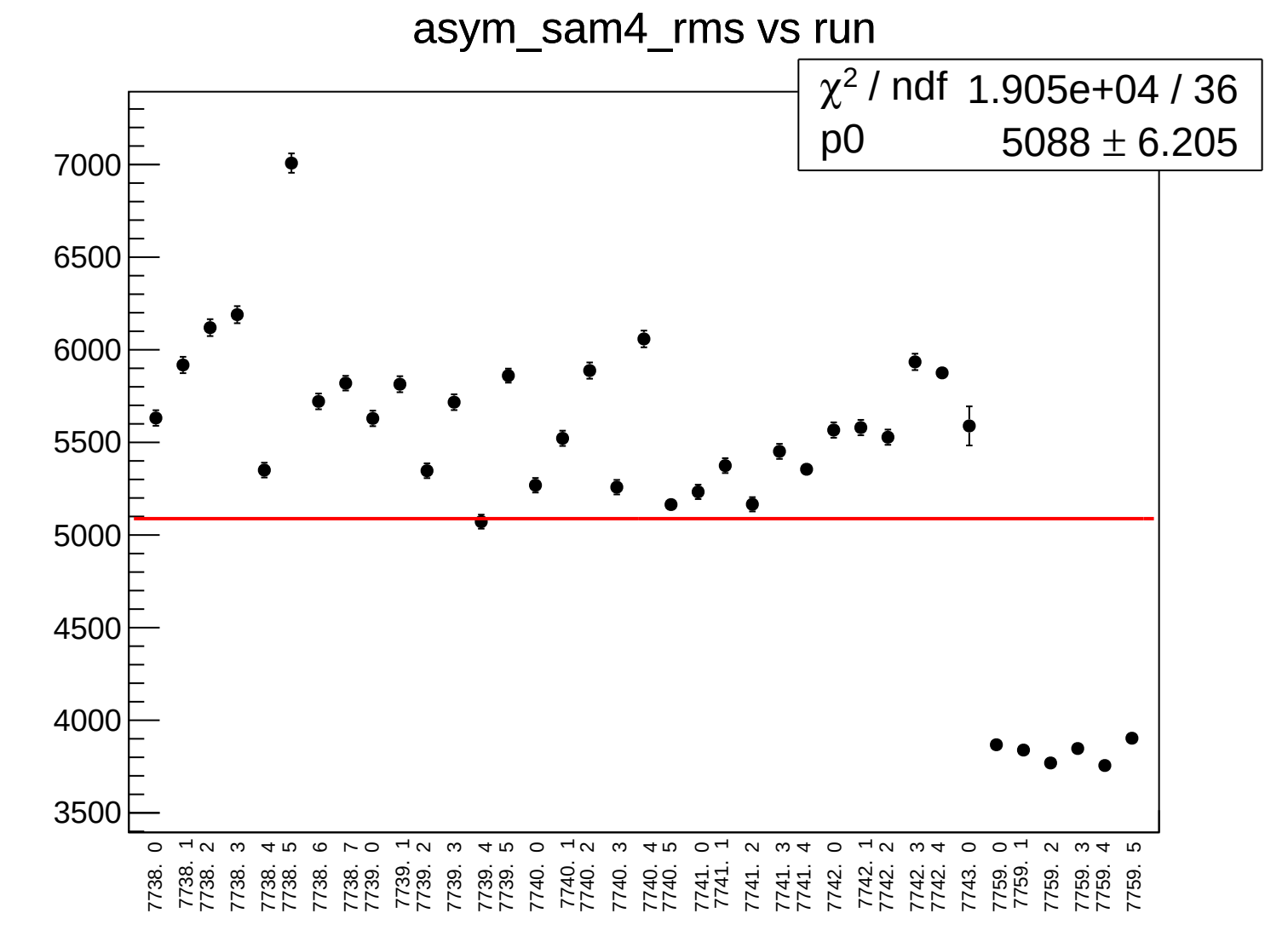

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 39.7 / 36
p0 −3135 ± 9102
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 930.6
Std Dev 914.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

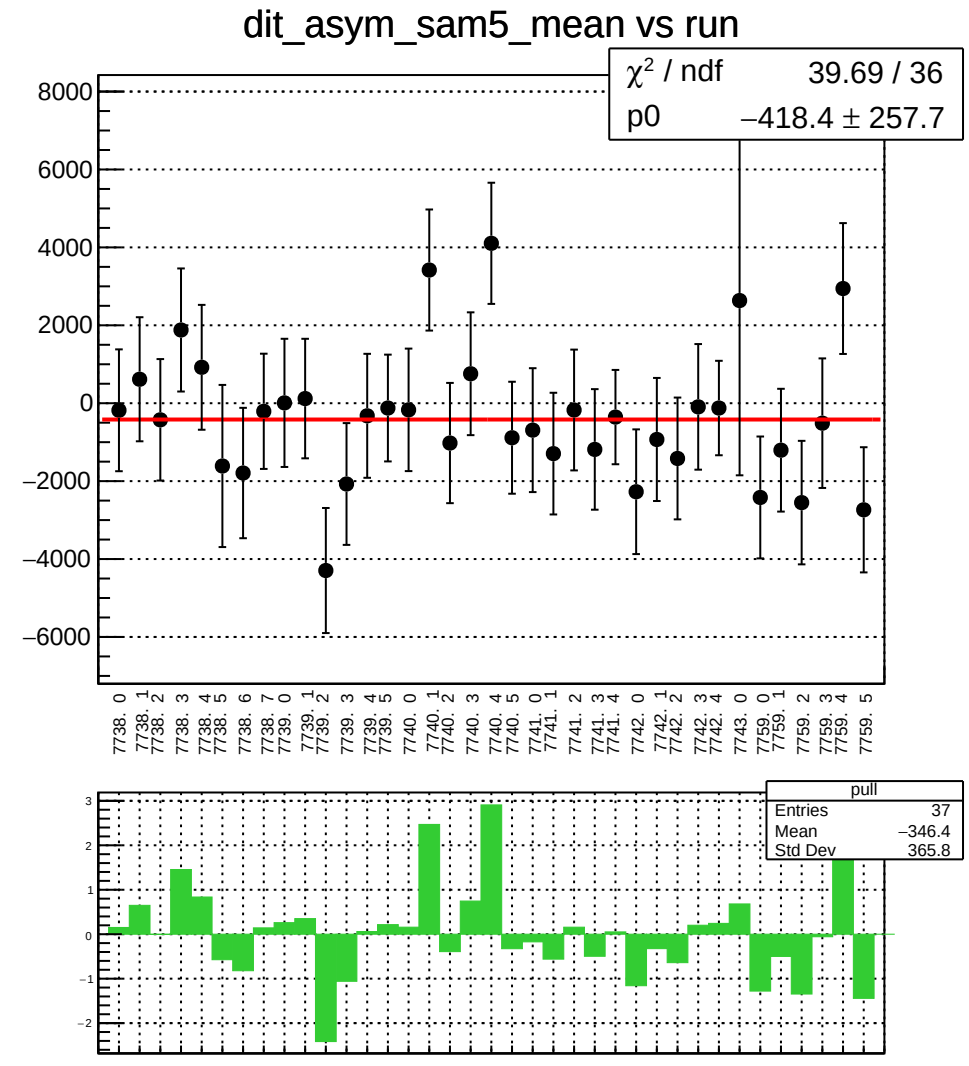

pull1D
Entries 37
Mean −0.00266
Std Dev 1.036
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

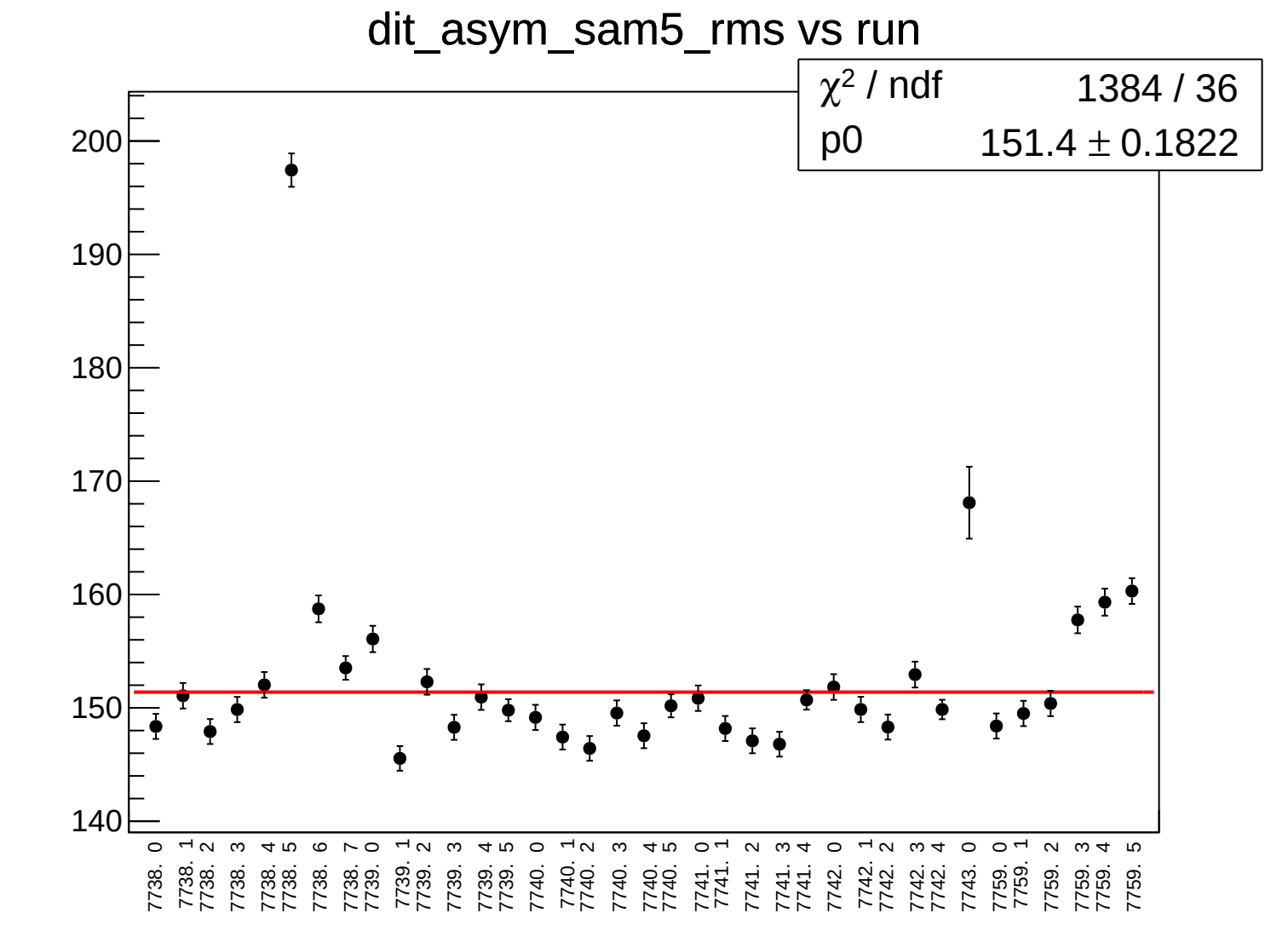

asym_sam4_correction_rms vs run
χ² / ndf 8178 / 36
p0 5320 ± 6.436
7000
6500
6000
5500
5000
4500
4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

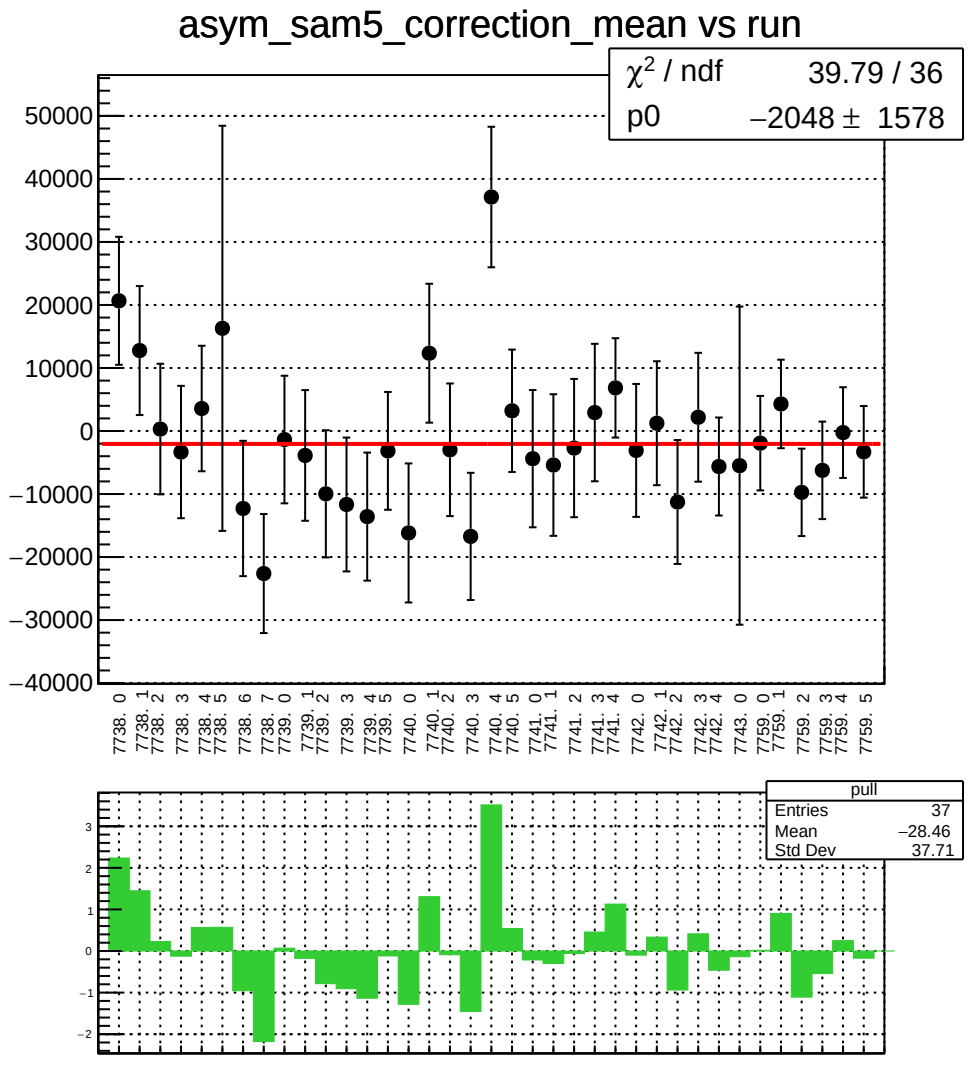

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.28 / 36
p0 2988 ± 8775
pull
Entries 37
Mean 1458
Std Dev 1442

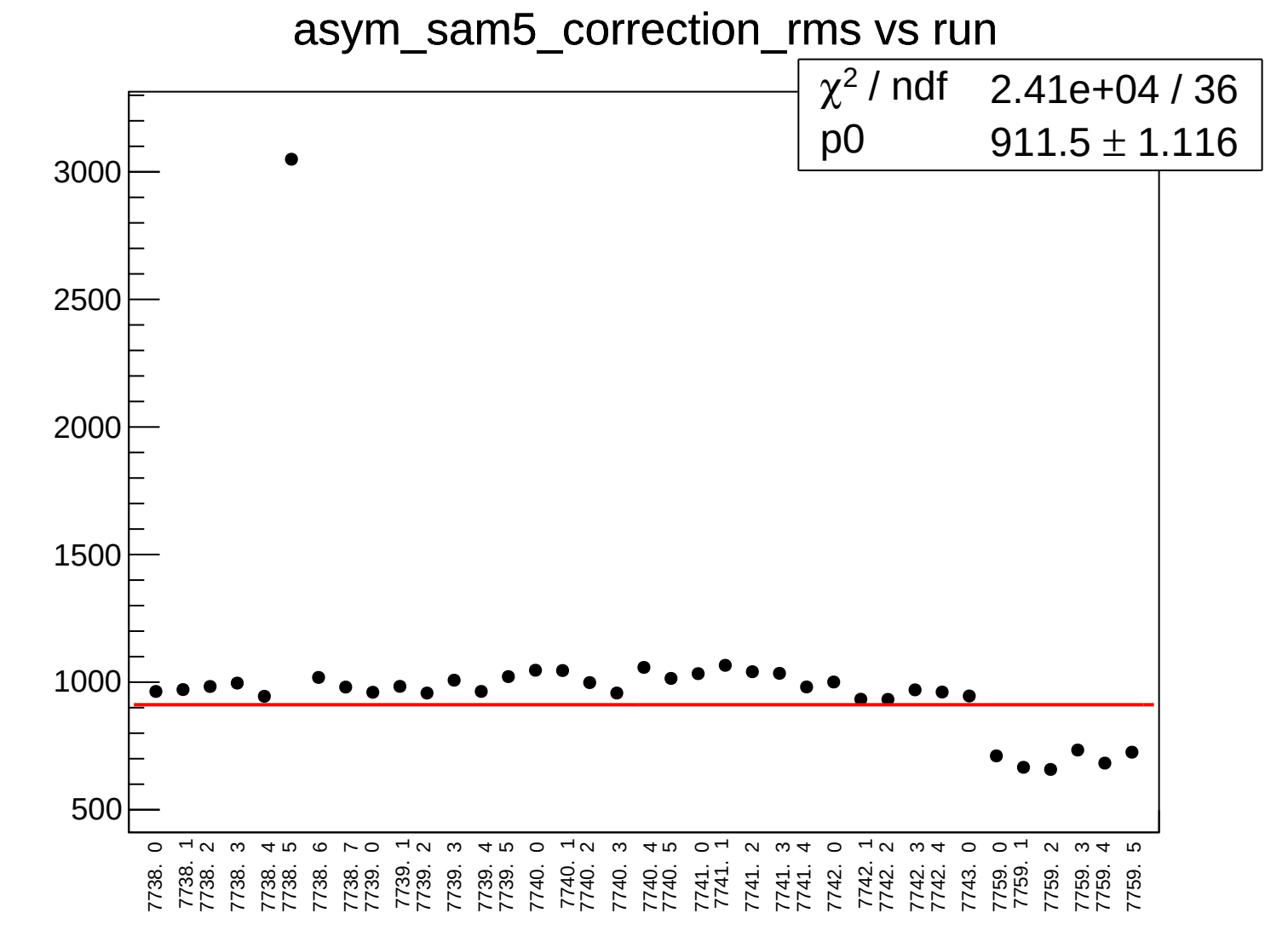

pull1D
Entries 37
Mean 0.001628
Std Dev 1.03

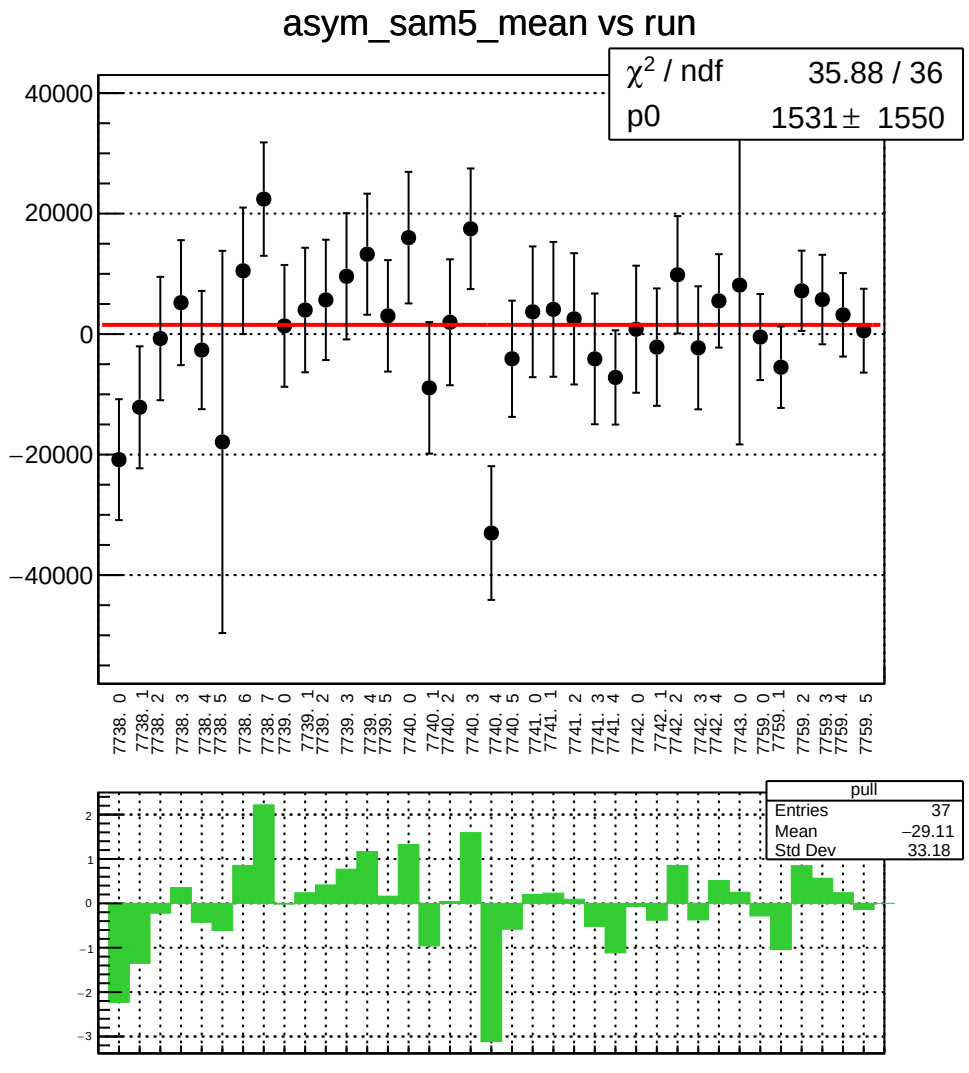

asym_sam4_rms vs run
χ² / ndf 1.905e+04 / 36
p0 5088 ± 6.205
7000
6500
6000
5500
5000
4500
4000
3500
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

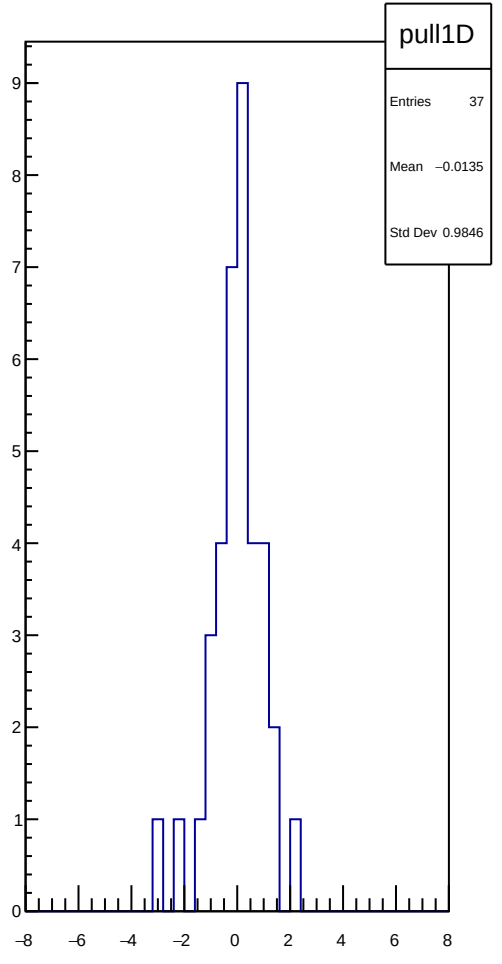

dit_asym_sam5_mean vs run
χ² / ndf 39.69 / 36
p0 −418.4 ± 257.7
8000
6000
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −346.4
Std Dev 365.8
3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.004744
Std Dev 1.036
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

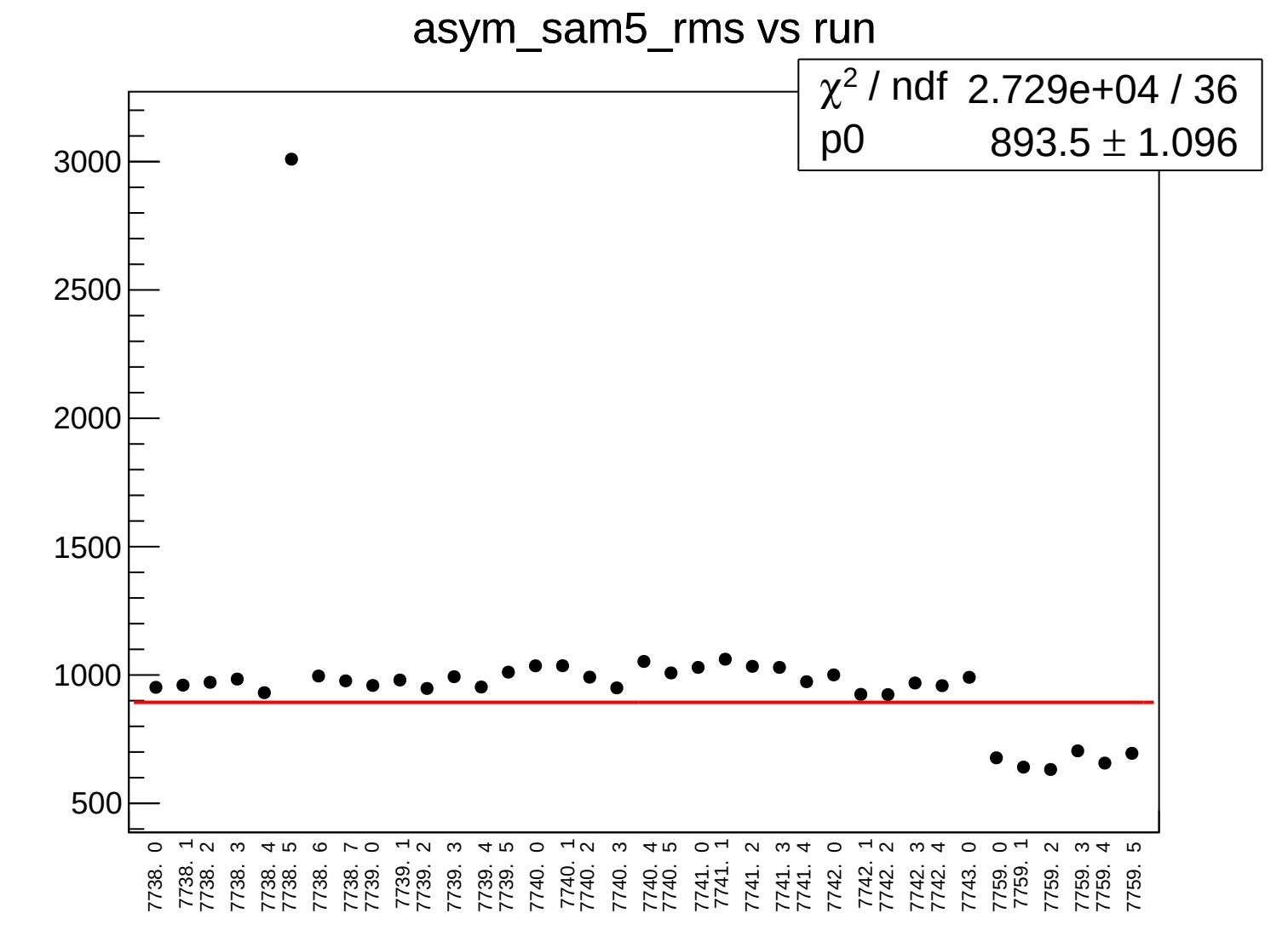

dit_asym_sam5_rms vs run
χ² / ndf 1384 / 36
p0 151.4 ± 0.1822
200
190
180
170
160
150
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

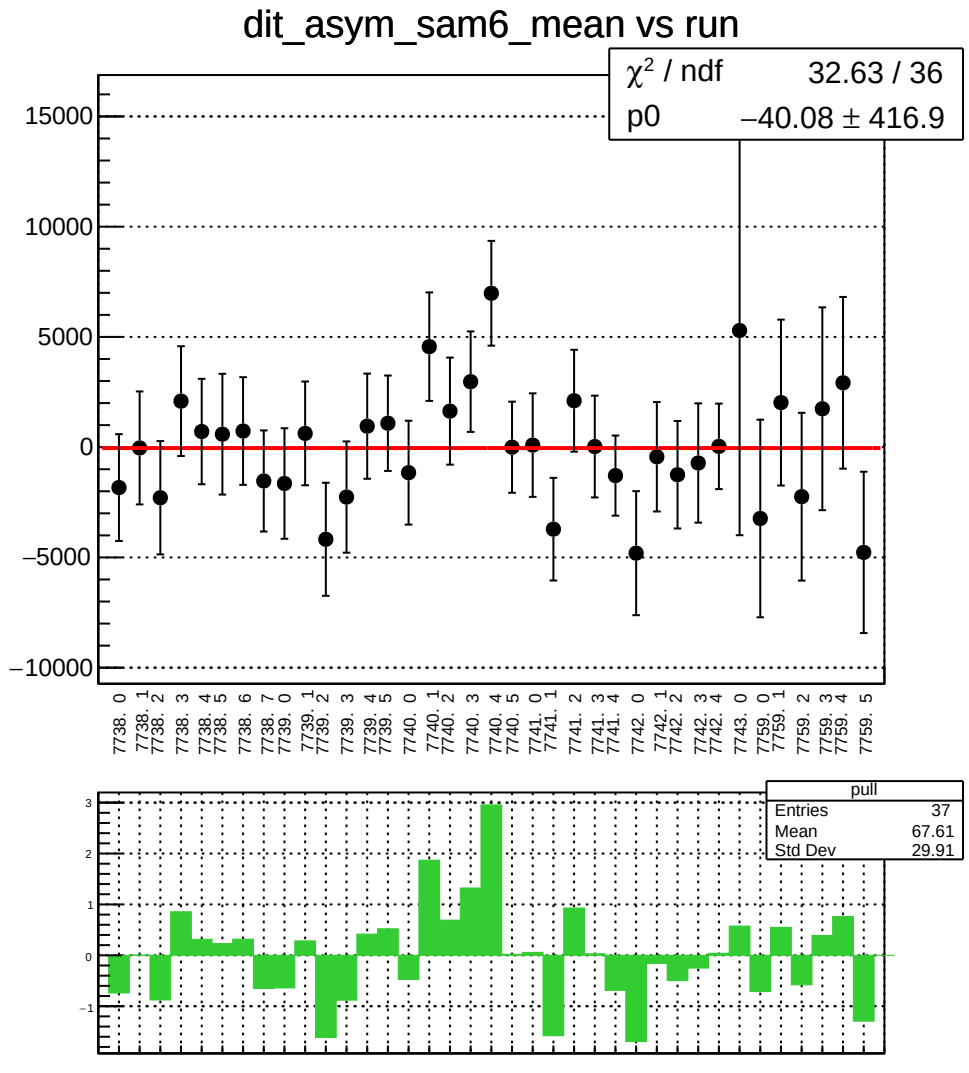

asym_sam5_correction_mean vs run
χ² / ndf 39.79 / 36
p0 −2048 ± 1578
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −28.46
Std Dev 37.71
3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.02021
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

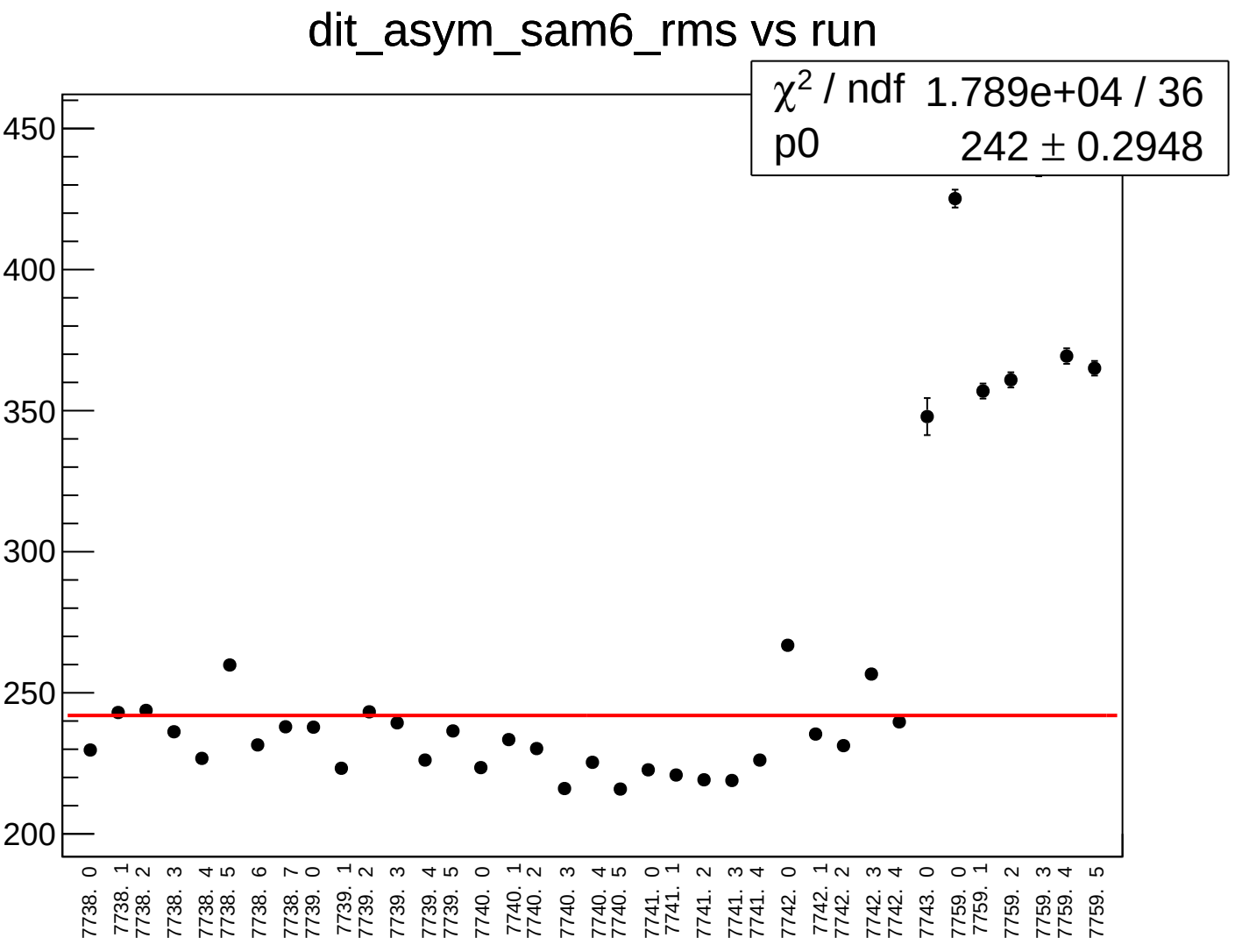

asym_sam5_correction_rms vs run
χ² / ndf 2.41e+04 / 36
p0 911.5 ± 1.116
3000
2500
2000
1500
1000
500
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

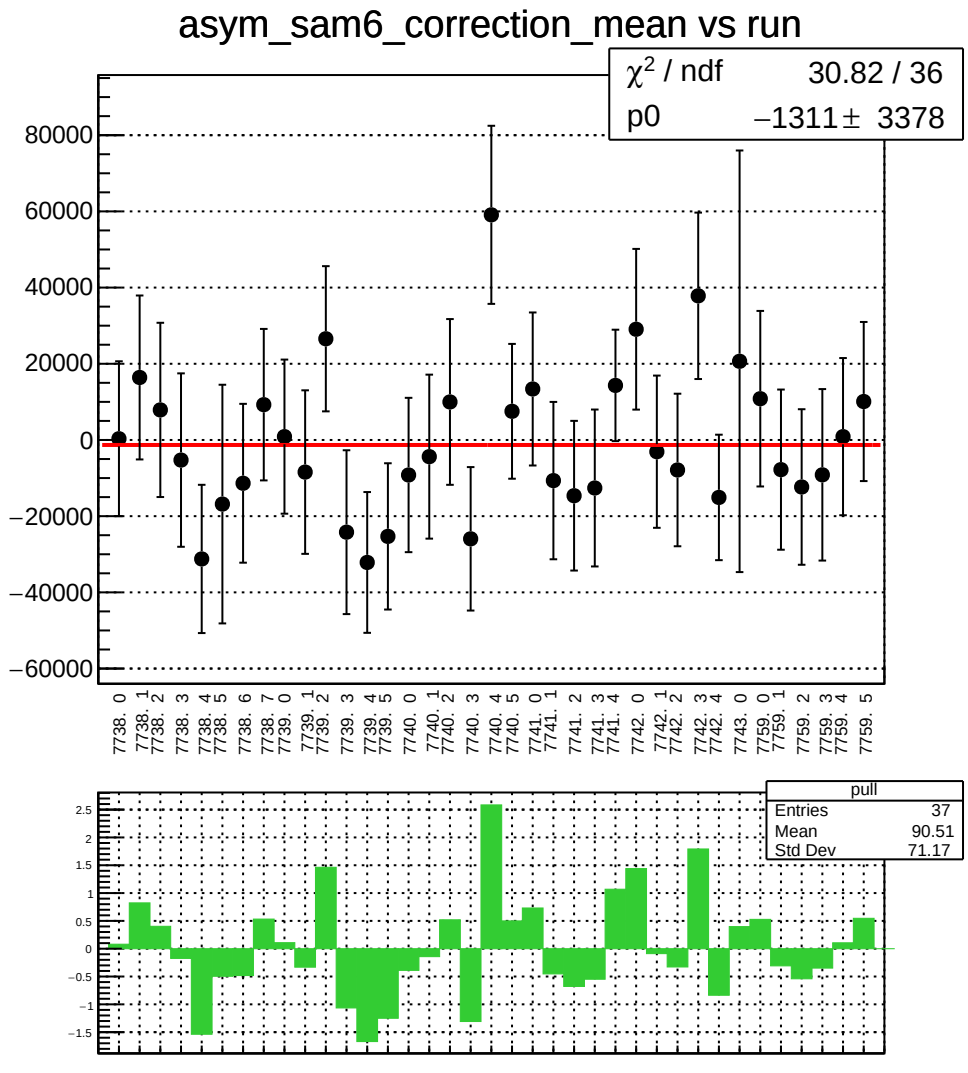

asym_sam5_mean vs run
χ² / ndf 35.88 / 36
p0 1531 ± 1550
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.11
Std Dev 33.18
2
1
0
−1
−2
−3

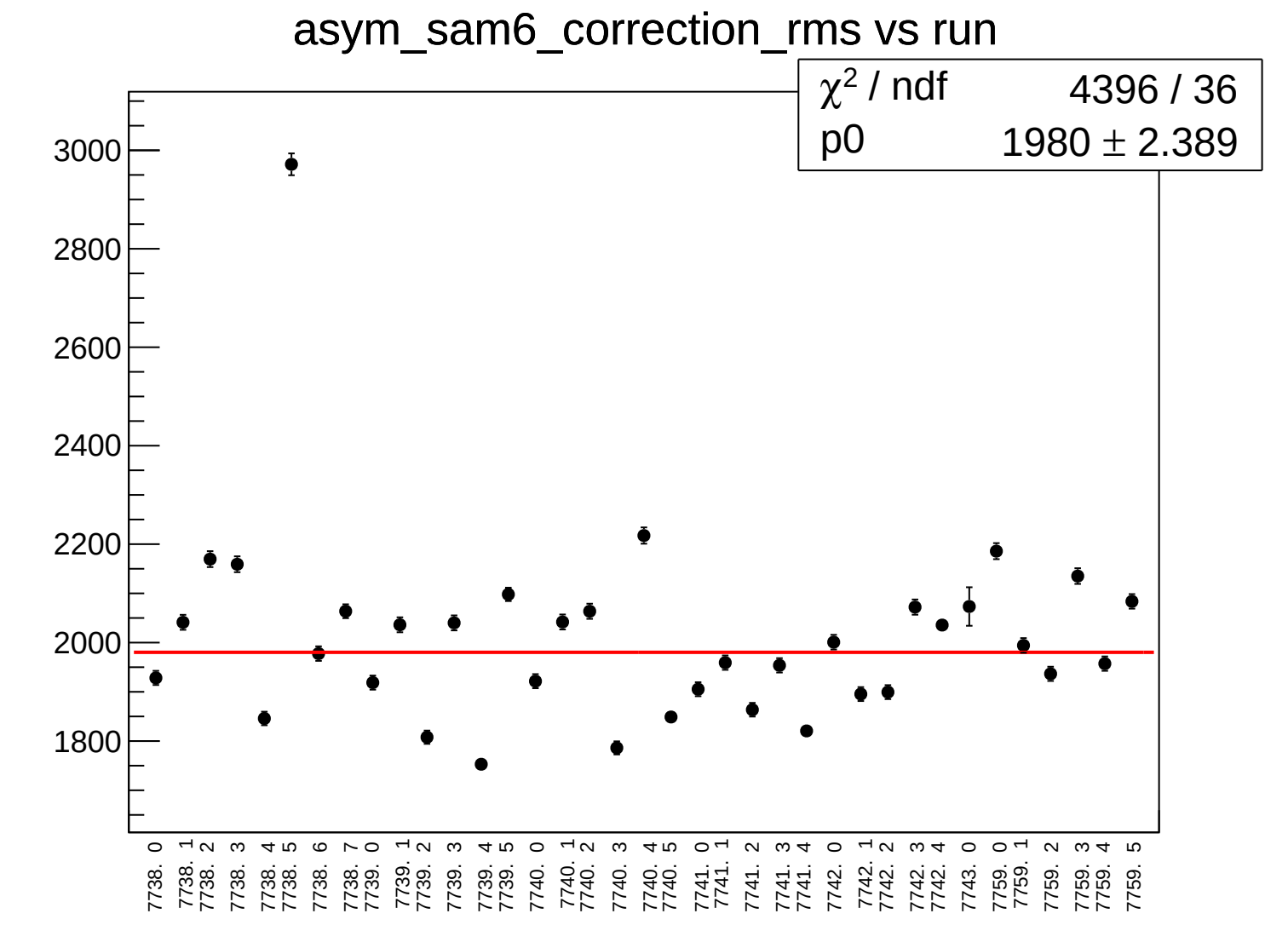

pull1D
Entries 37
Mean −0.0135
Std Dev 0.9846
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

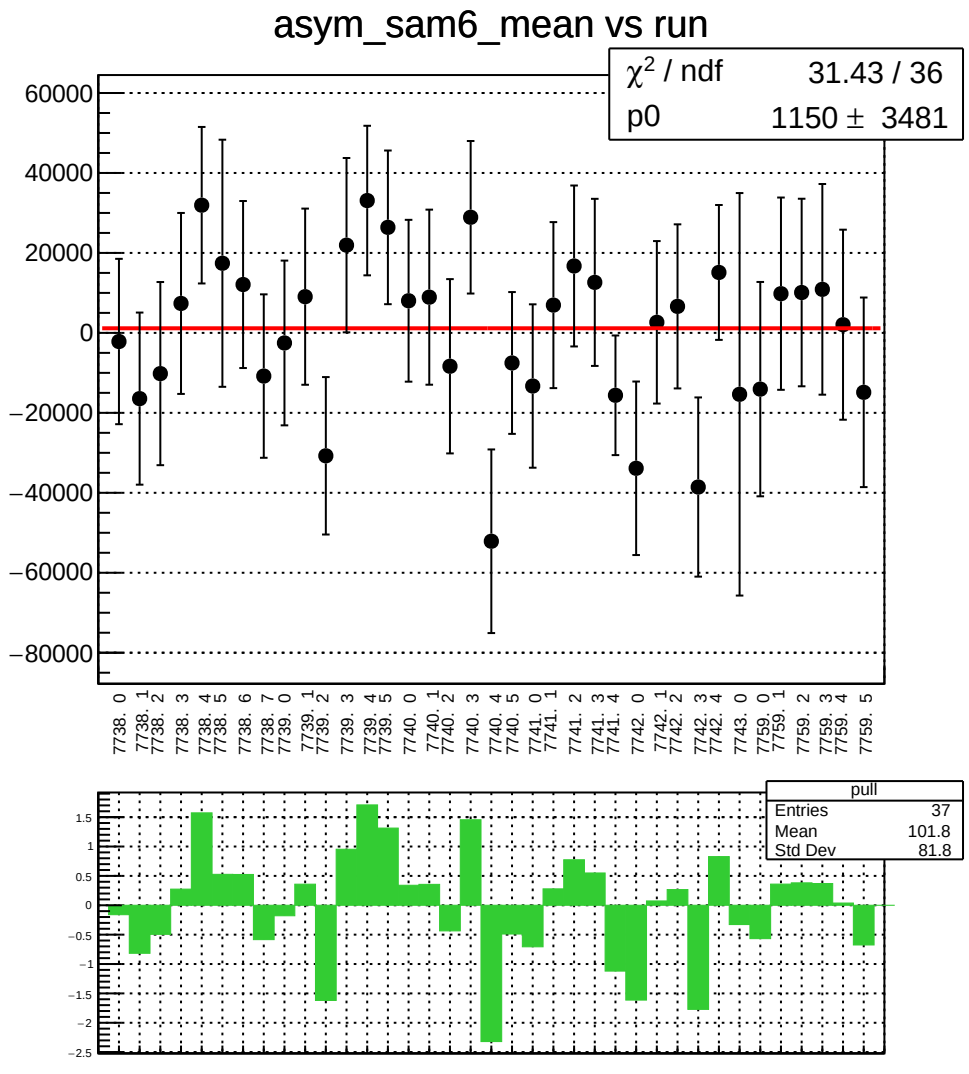

asym_sam5_rms vs run
χ² / ndf 2.729e+04 / 36
p0 893.5 ± 1.096
3000
2500
2000
1500
1000
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

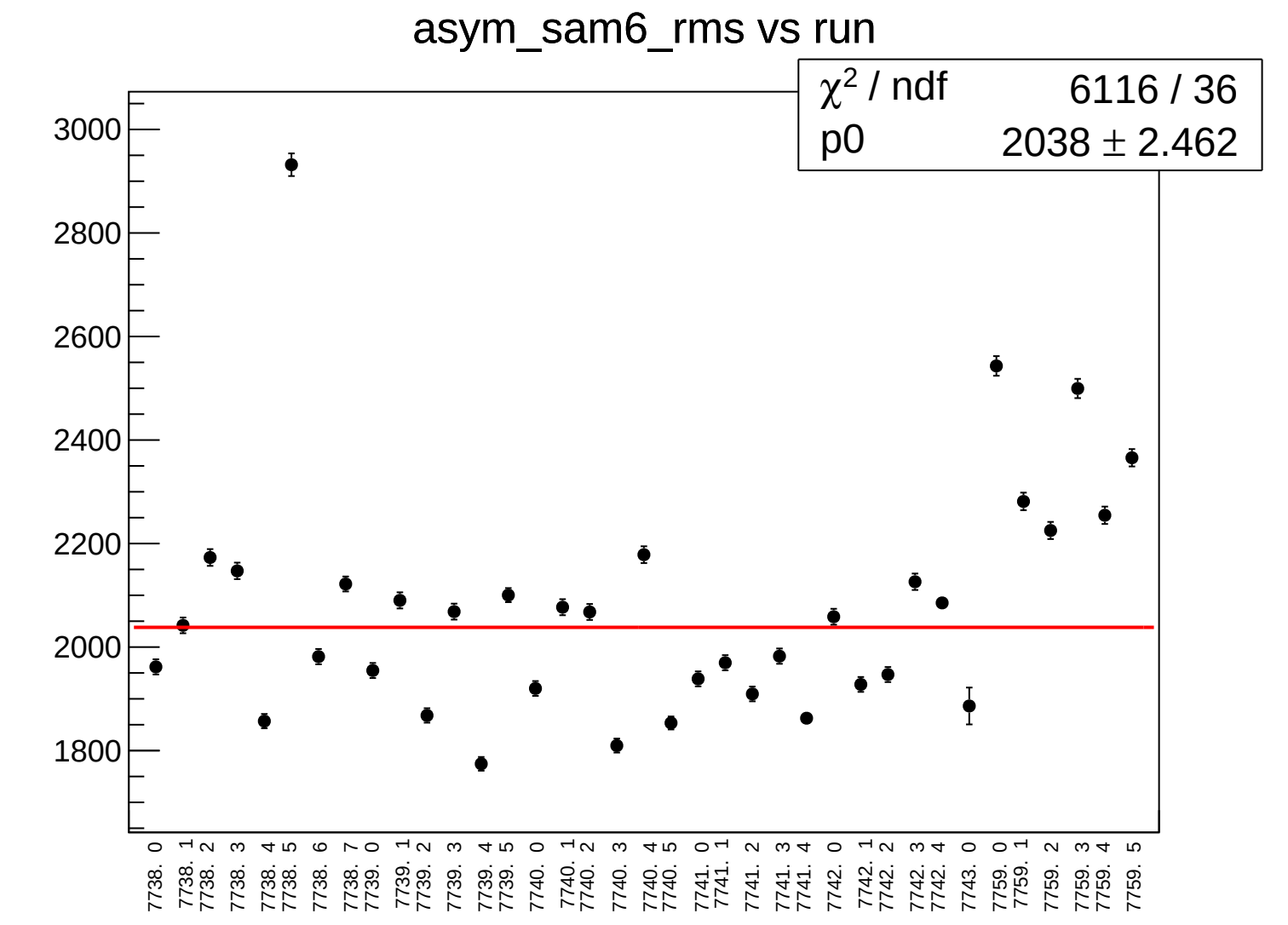

dit_asym_sam6_mean vs run
χ² / ndf 32.63 / 36
p0 −40.08 ± 416.9
15000
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 67.61
Std Dev 29.91
3
2
1
0
−1
pull1D
Entries 37
Mean −0.005619
Std Dev 0.939
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

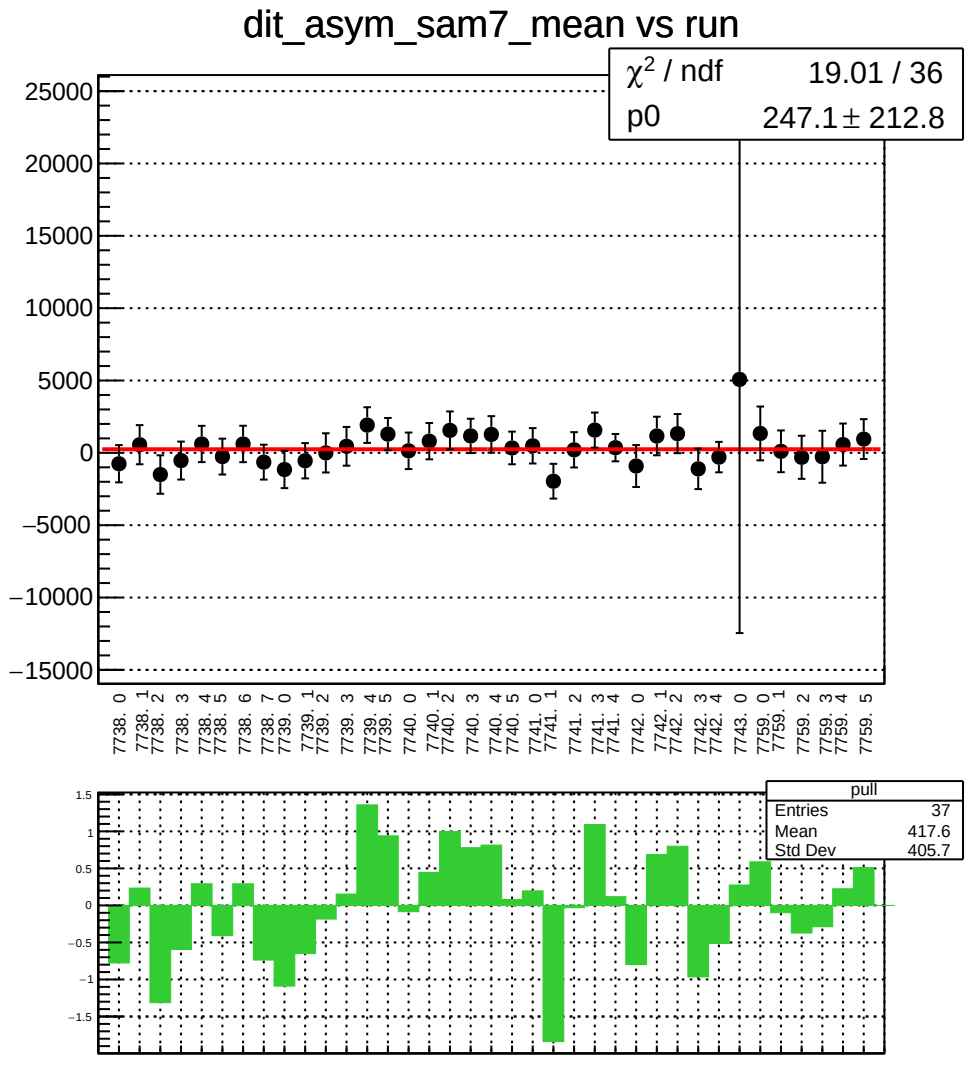

dit_asym_sam6_rms vs run
χ^2 / ndf 1.789e+04 / 36
p0 242 ± 0.2948
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

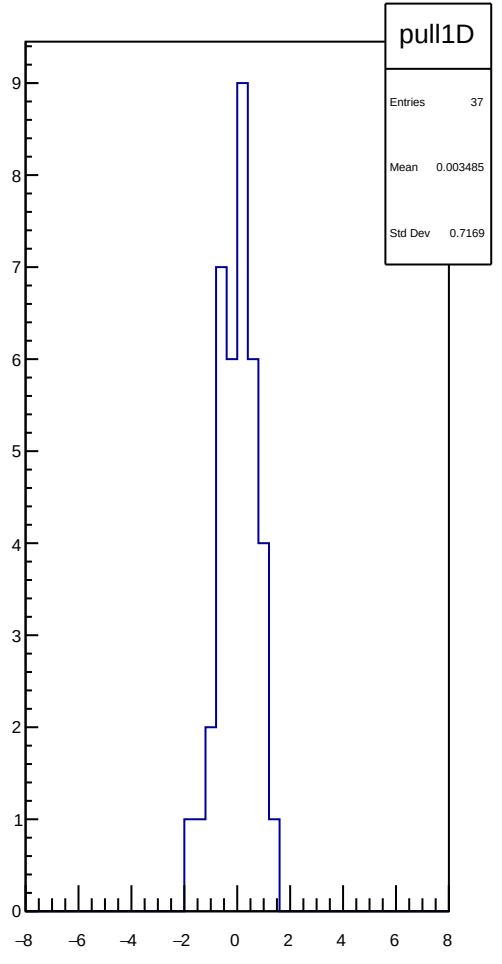

asym_sam6_correction_mean vs run
χ² / ndf 30.82 / 36
p0 −1311 ± 3378
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 90.51
Std Dev 71.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01755
Std Dev 0.9126
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

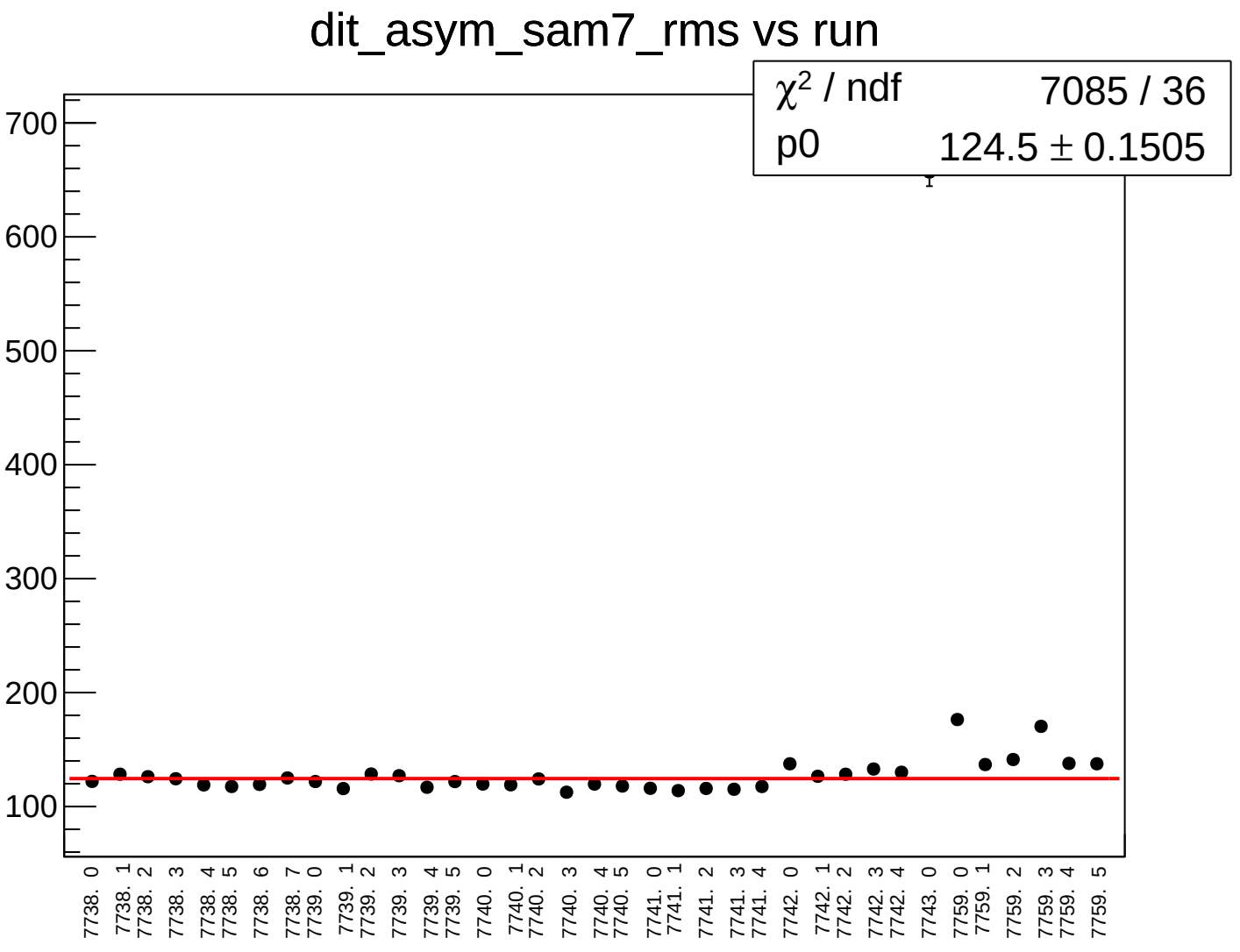

asym_sam6_correction_rms vs run
χ² / ndf 4396 / 36
p0 1980 ± 2.389
3000
2800
2600
2400
2200
2000
1800
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

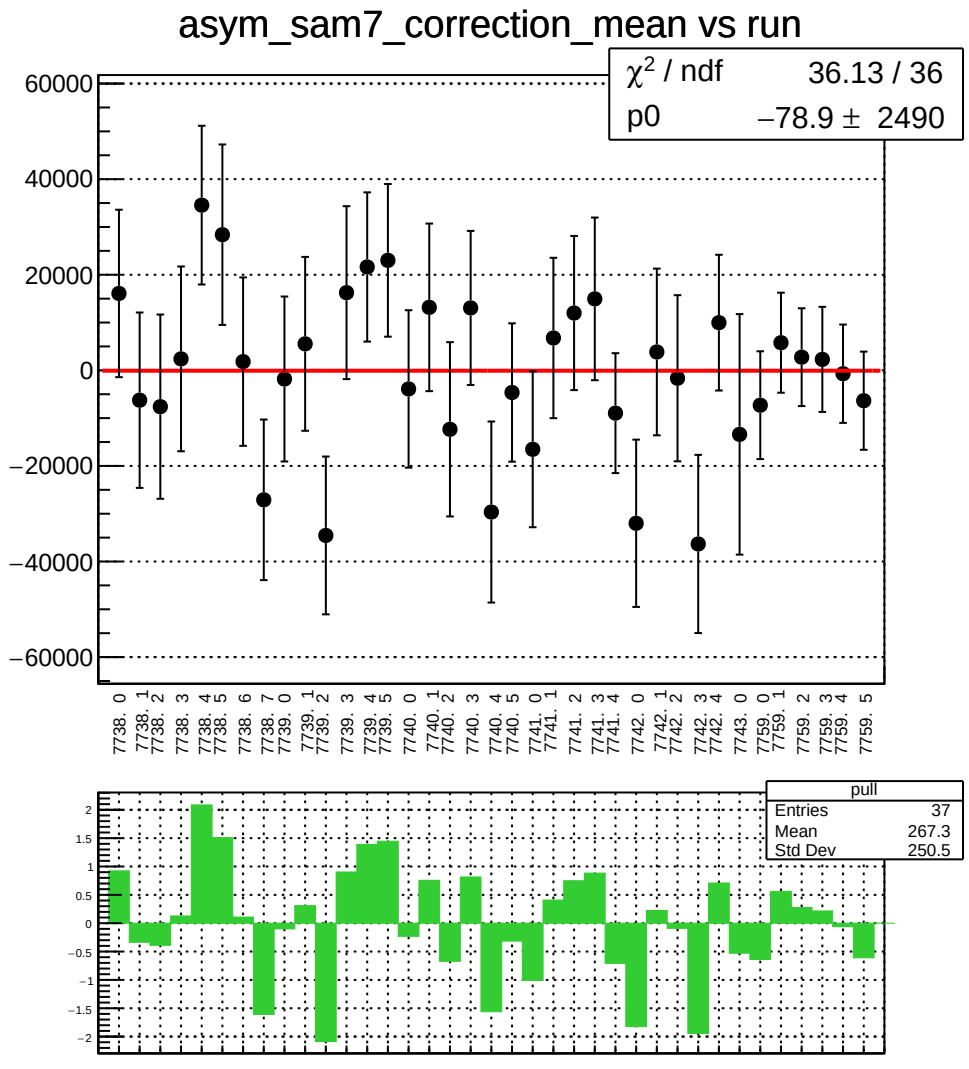

asym_sam6_mean vs run
χ² / ndf 31.43 / 36
p0 1150 ± 3481
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 101.8
Std Dev 81.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean −0.01563
Std Dev 0.9215
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

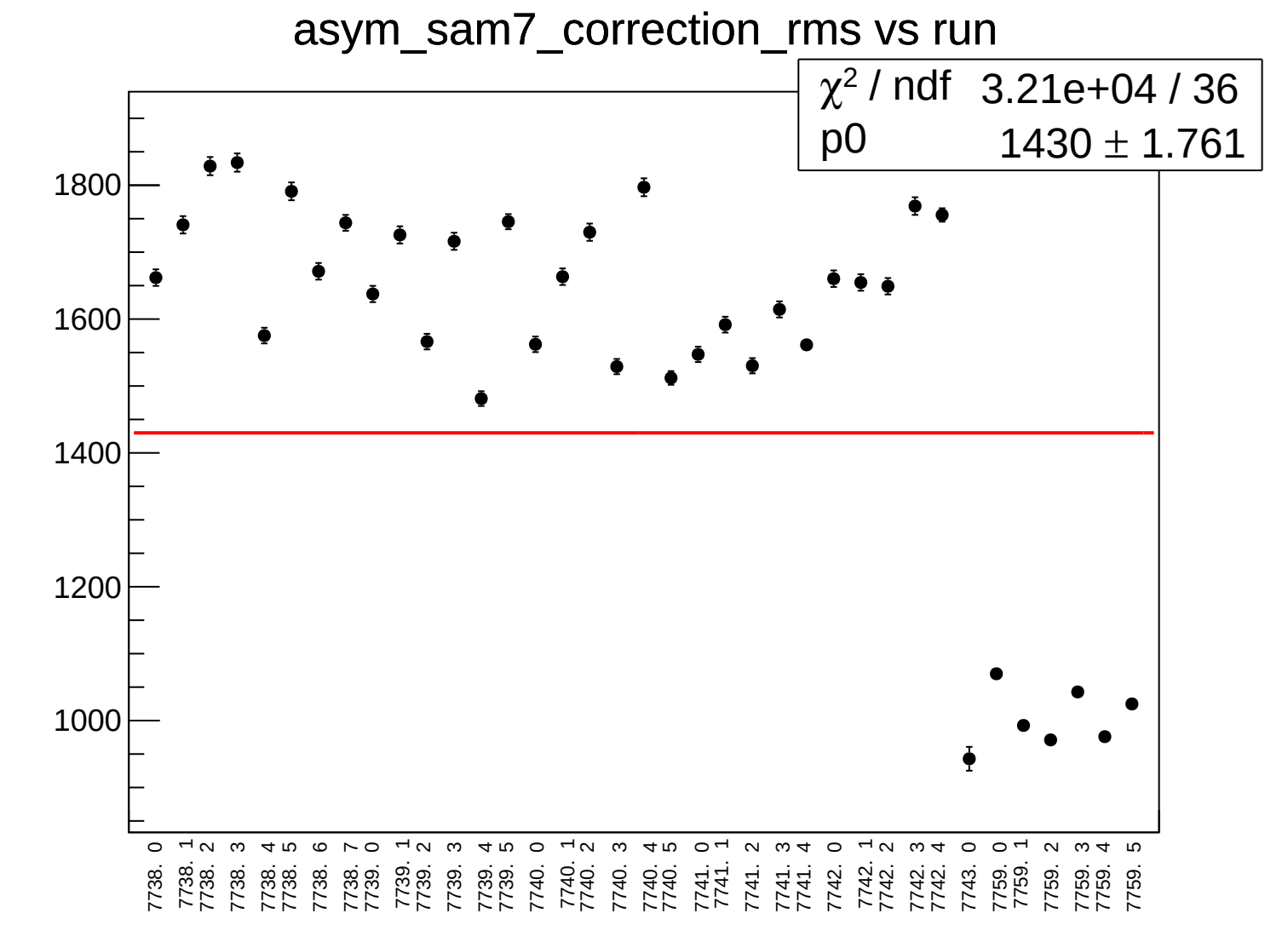

asym_sam6_rms vs run
χ² / ndf 6116 / 36
p0 2038 ± 2.462
3000
2800
2600
2400
2200
2000
1800
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

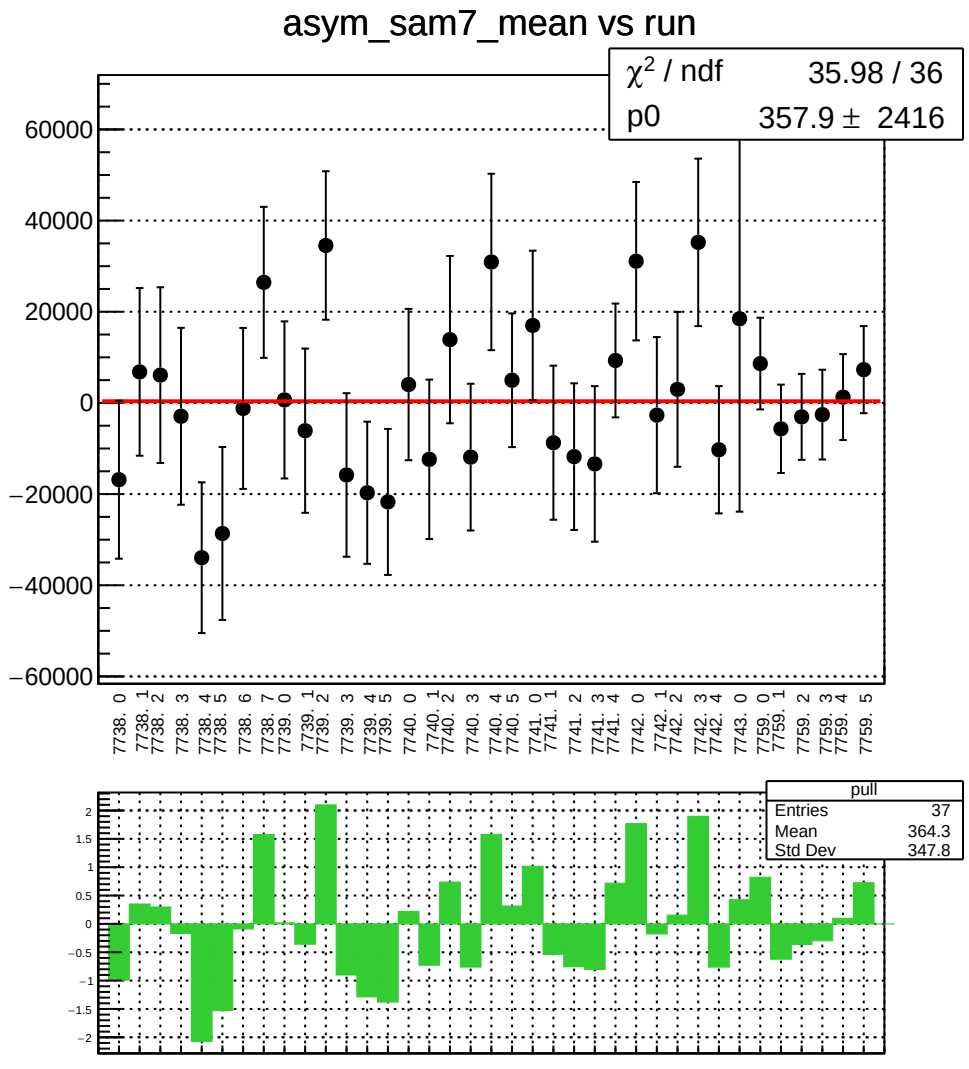

dit_asym_sam7_mean vs run
χ² / ndf 19.01 / 36
p0 247.1 ± 212.8
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 417.6
Std Dev 405.7
1.5
1
0.5
0
−0.5
−1
−1.5

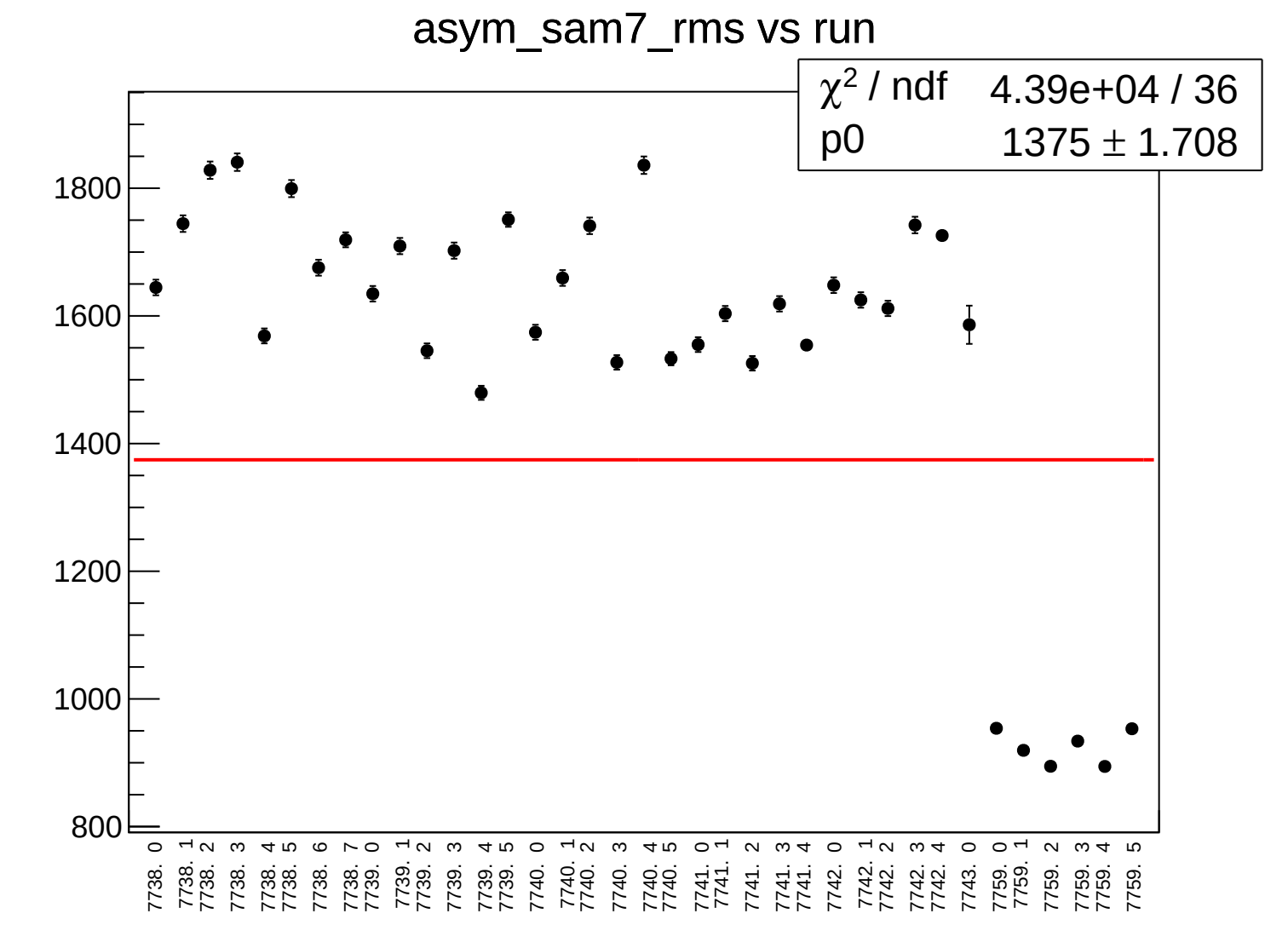

pull1D
Entries 37
Mean 0.003485
Std Dev 0.7169
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

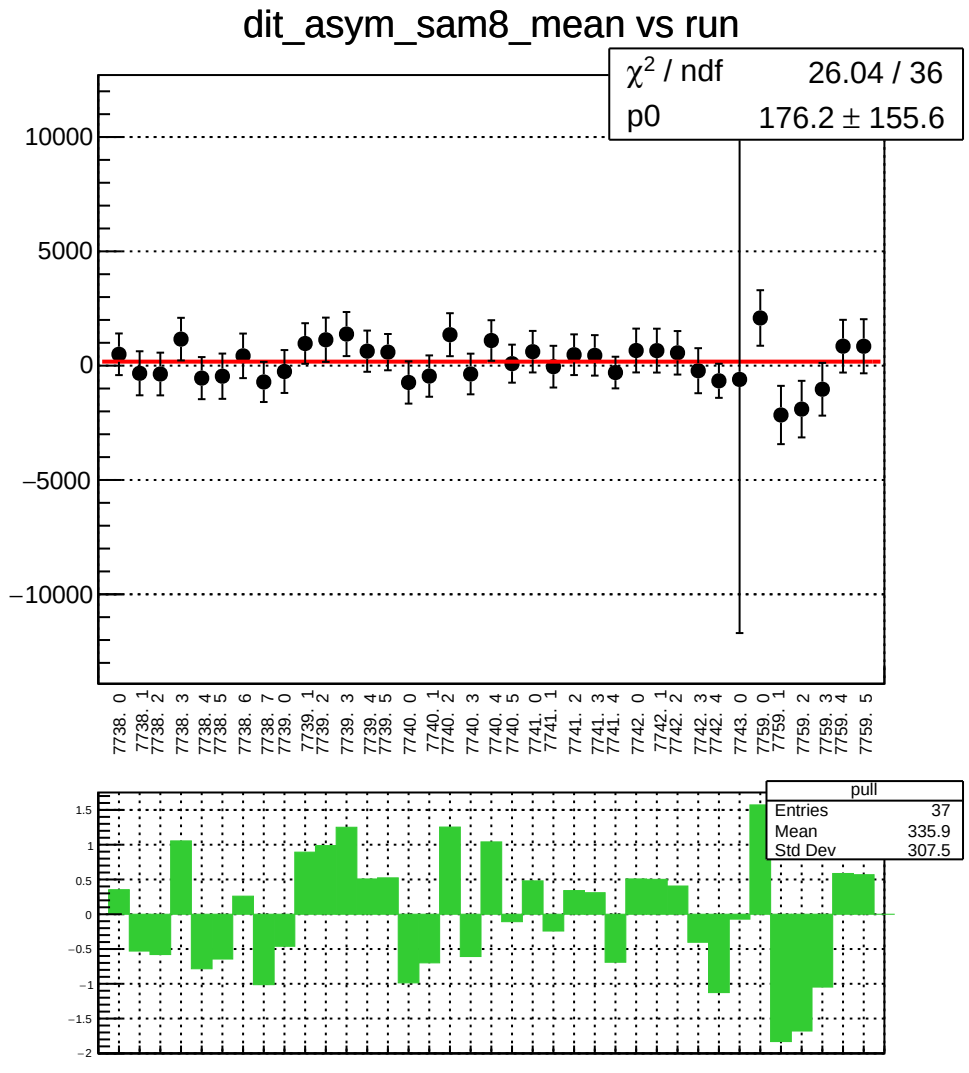

dit_asym_sam7_rms vs run
χ² / ndf 7085 / 36
p0 124.5 ± 0.1505
700
600
500
400
300
200
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

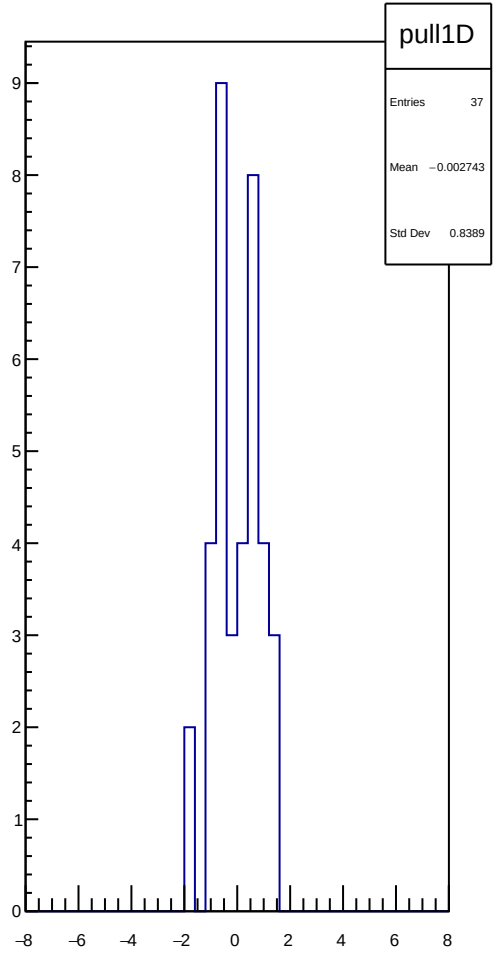

asym_sam7_correction_mean vs run
χ² / ndf 36.13 / 36
p0 −78.9 ± 2490
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 267.3
Std Dev 250.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.008625
Std Dev 0.9882
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

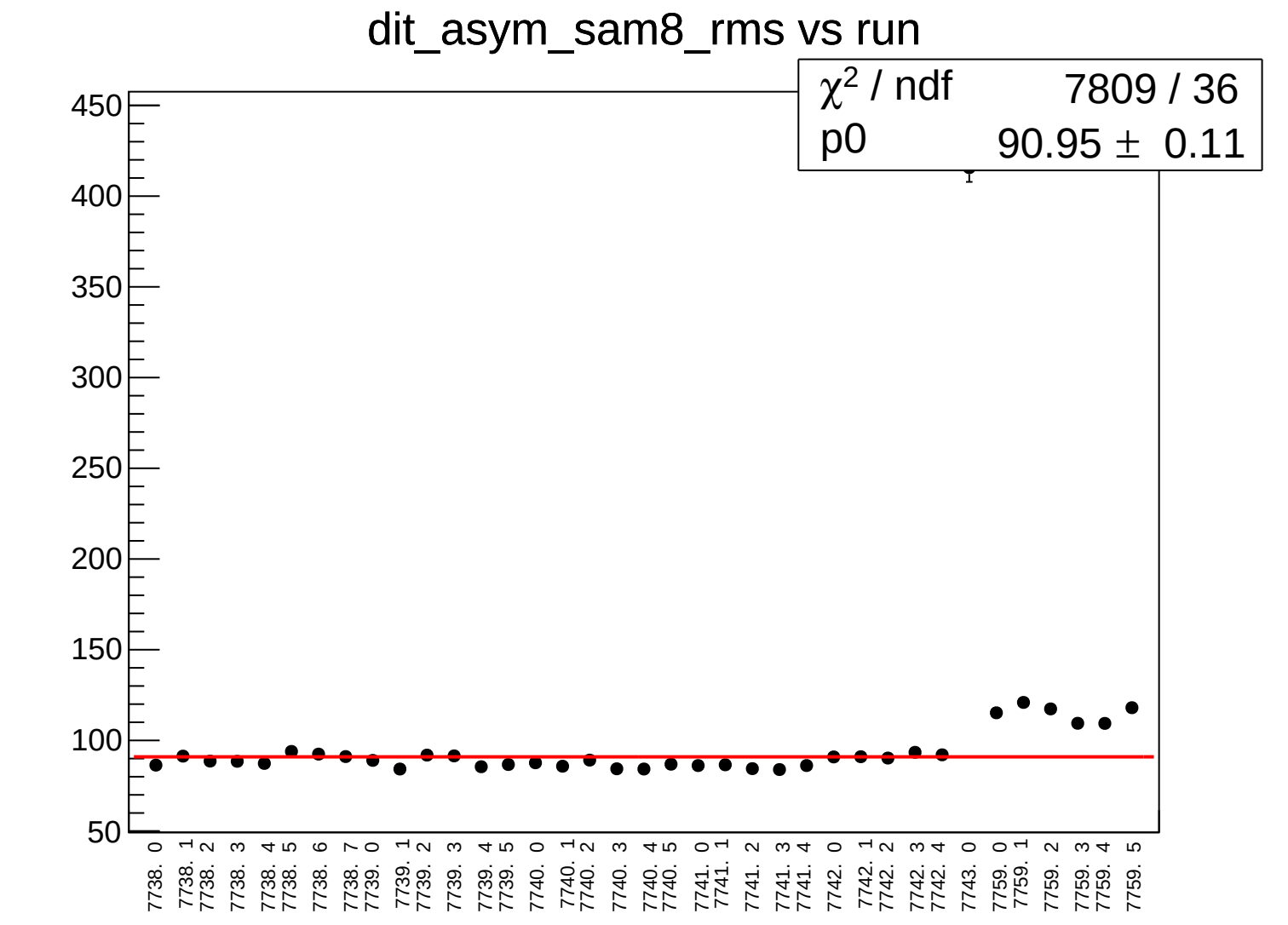

asym_sam7_correction_rms vs run
χ² / ndf 3.21e+04 / 36
p0 1430 ± 1.761
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

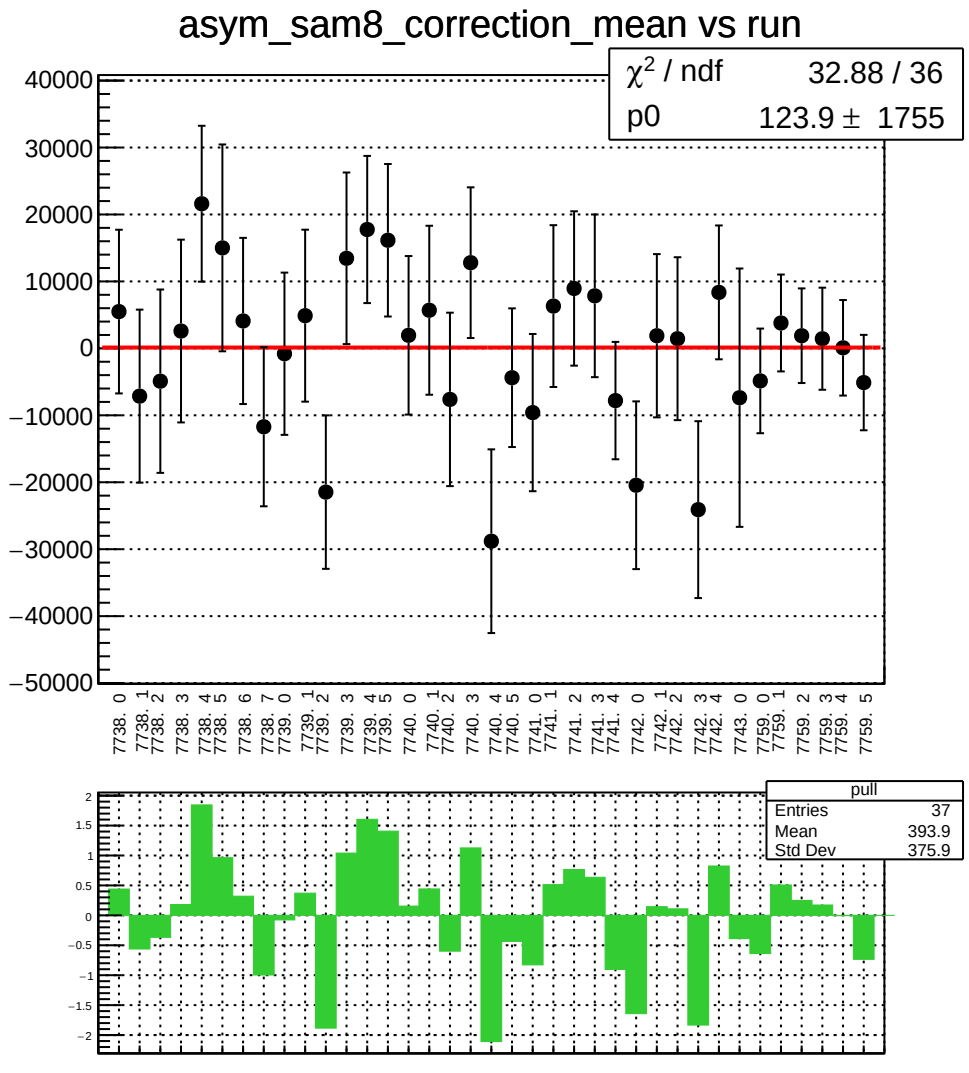

asym_sam7_mean vs run
χ² / ndf 35.98 / 36
p0 357.9 ± 2416
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 364.3
Std Dev 347.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.006463
Std Dev 0.9861
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

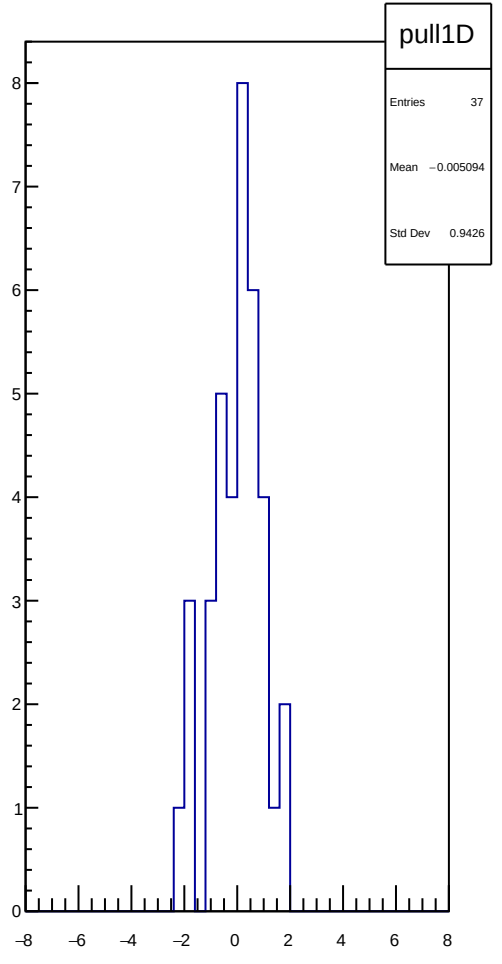

asym_sam7_rms vs run
χ² / ndf 4.39e+04 / 36
p0 1375 ± 1.708
1800
1600
1400
1200
1000
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

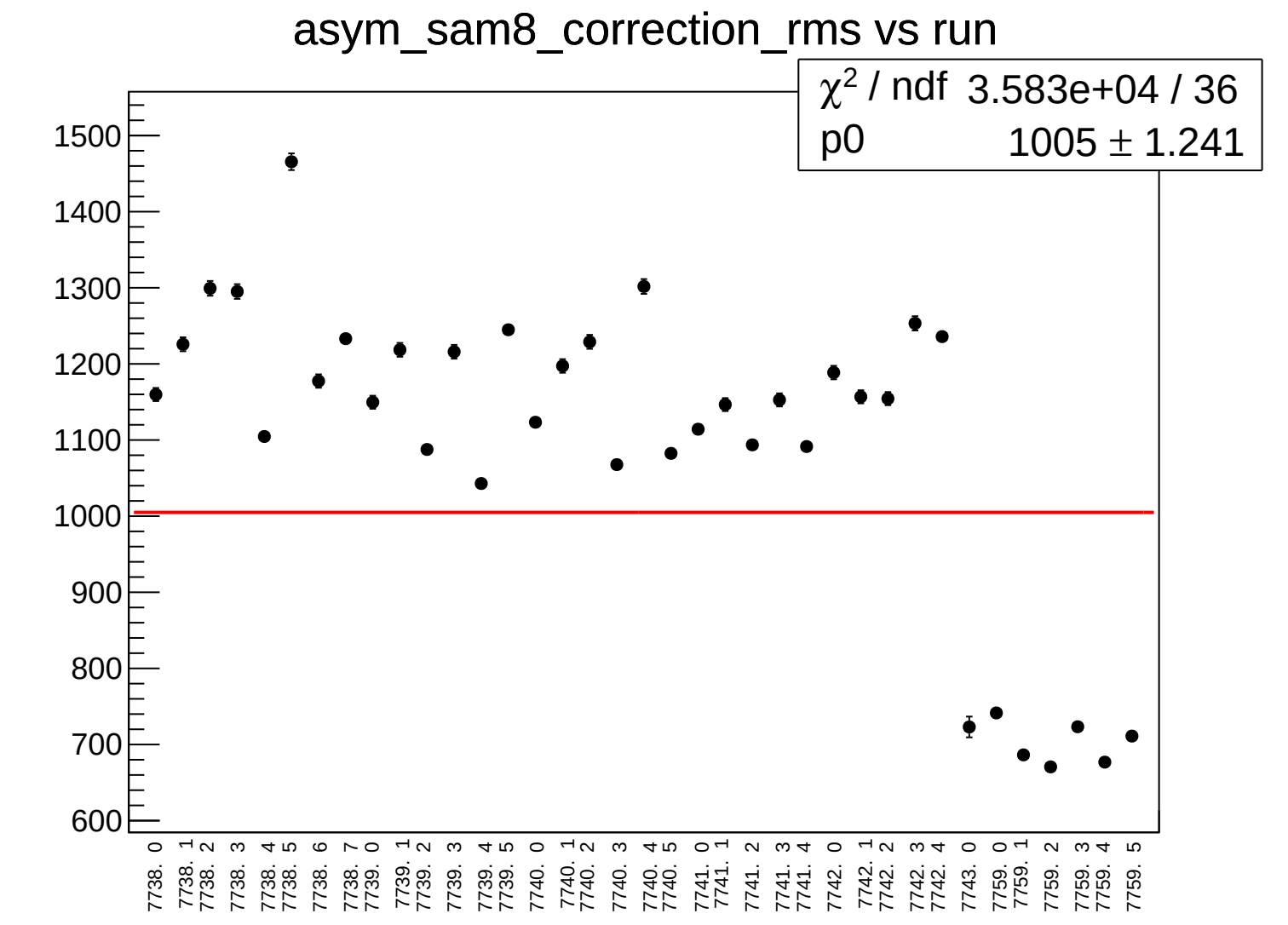

dit_asym_sam8_mean vs run
χ² / ndf 26.04 / 36
p0 176.2 ± 155.6
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 335.9
Std Dev 307.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

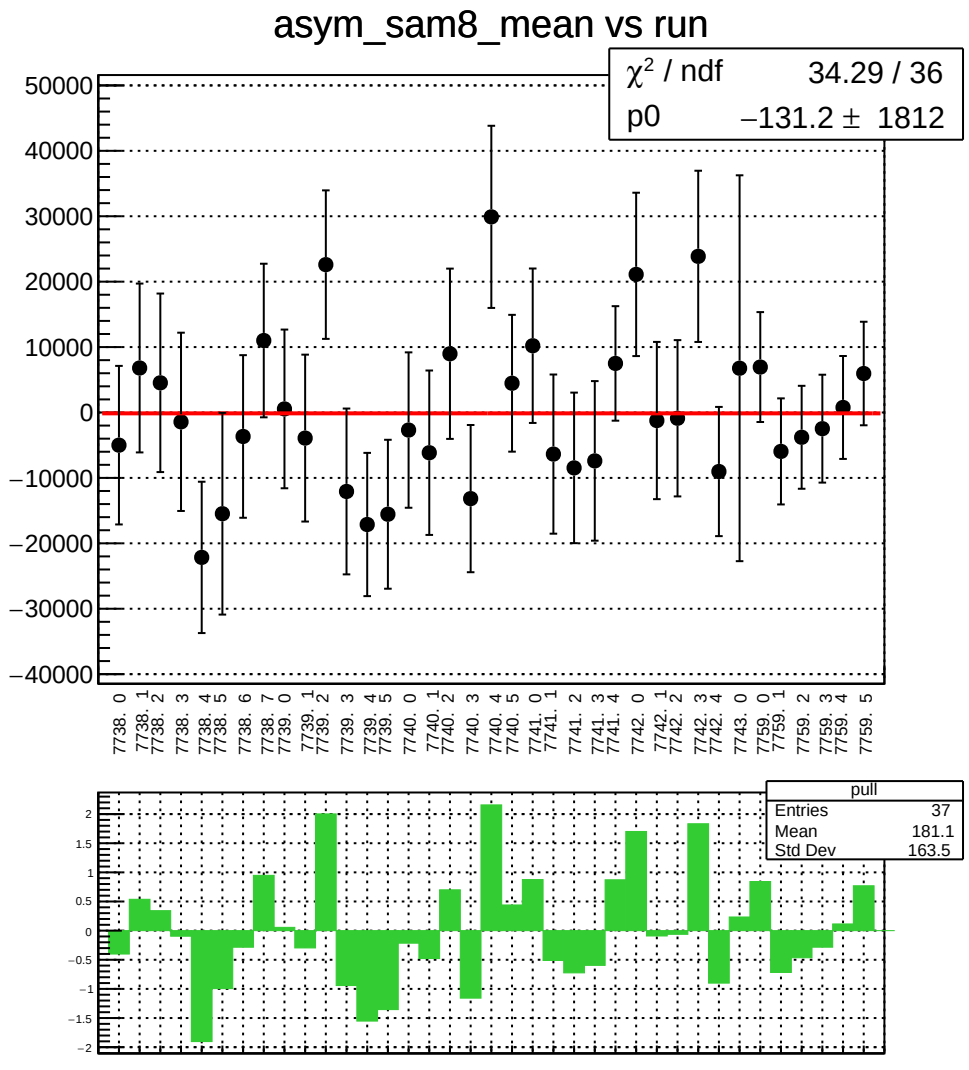

pull1D
Entries 37
Mean −0.002743
Std Dev 0.8389
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

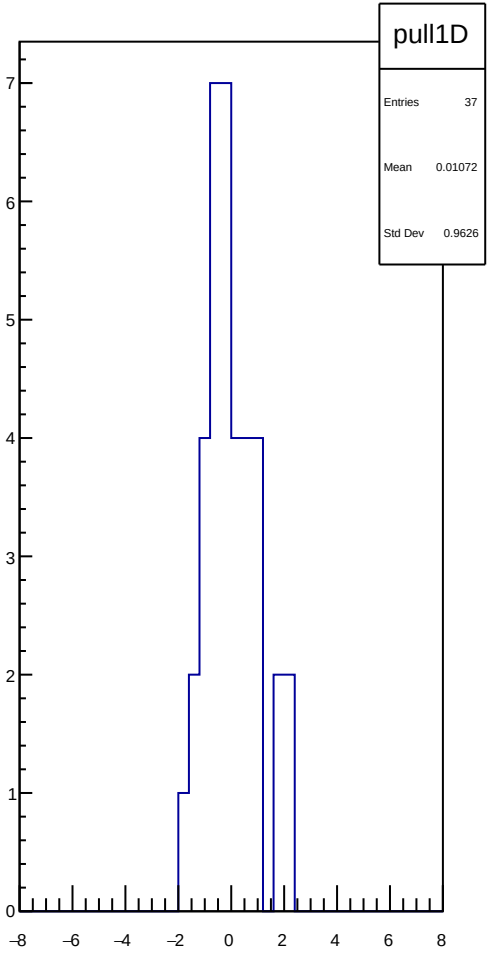

dit_asym_sam8_rms vs run
χ² / ndf 7809 / 36
p0 90.95 ± 0.11
450
400
350
300
250
200
150
100
50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

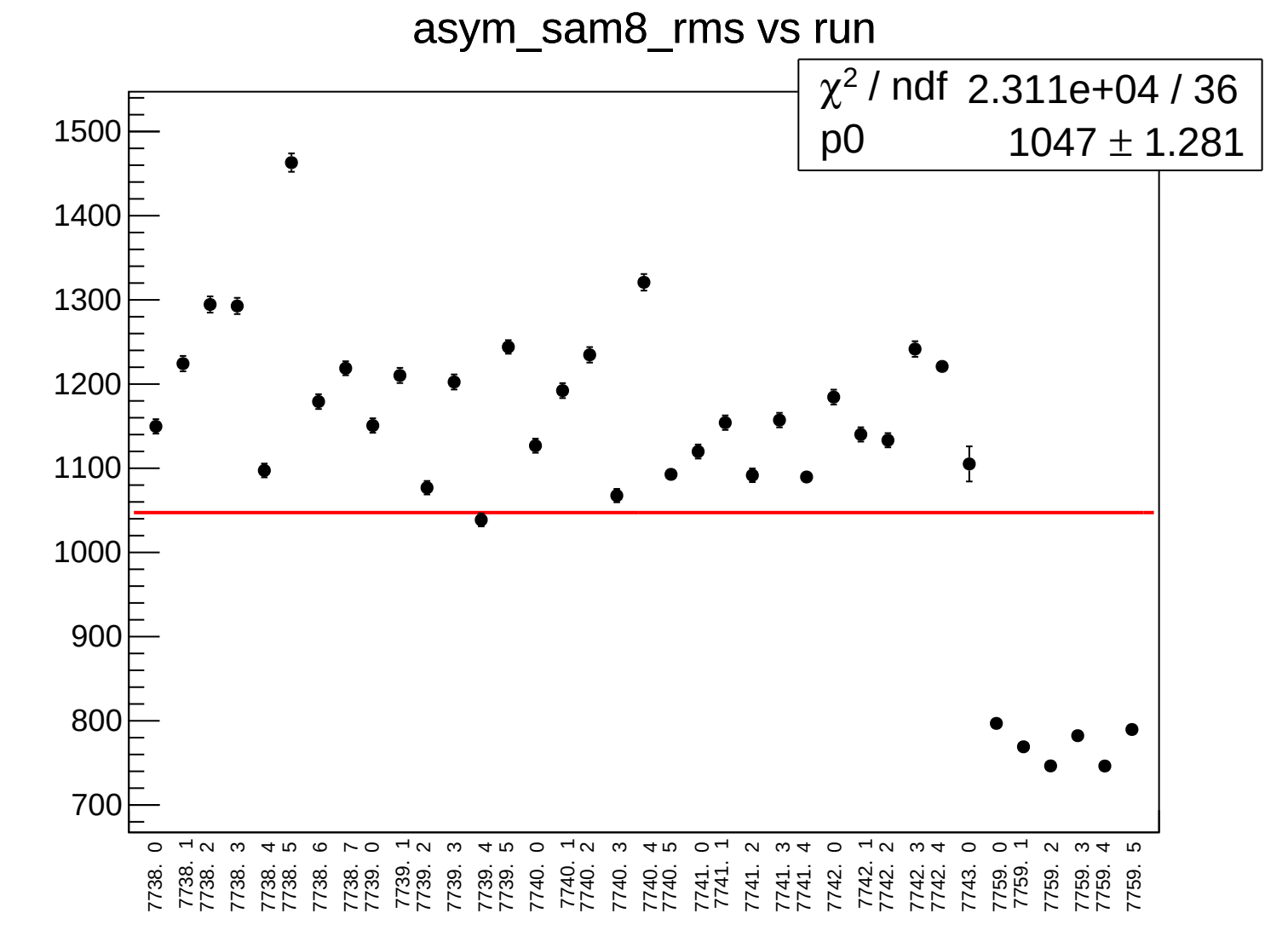

asym_sam8_correction_mean vs run
χ² / ndf 32.88 / 36
p0 123.9 ± 1755
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 393.9
Std Dev 375.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

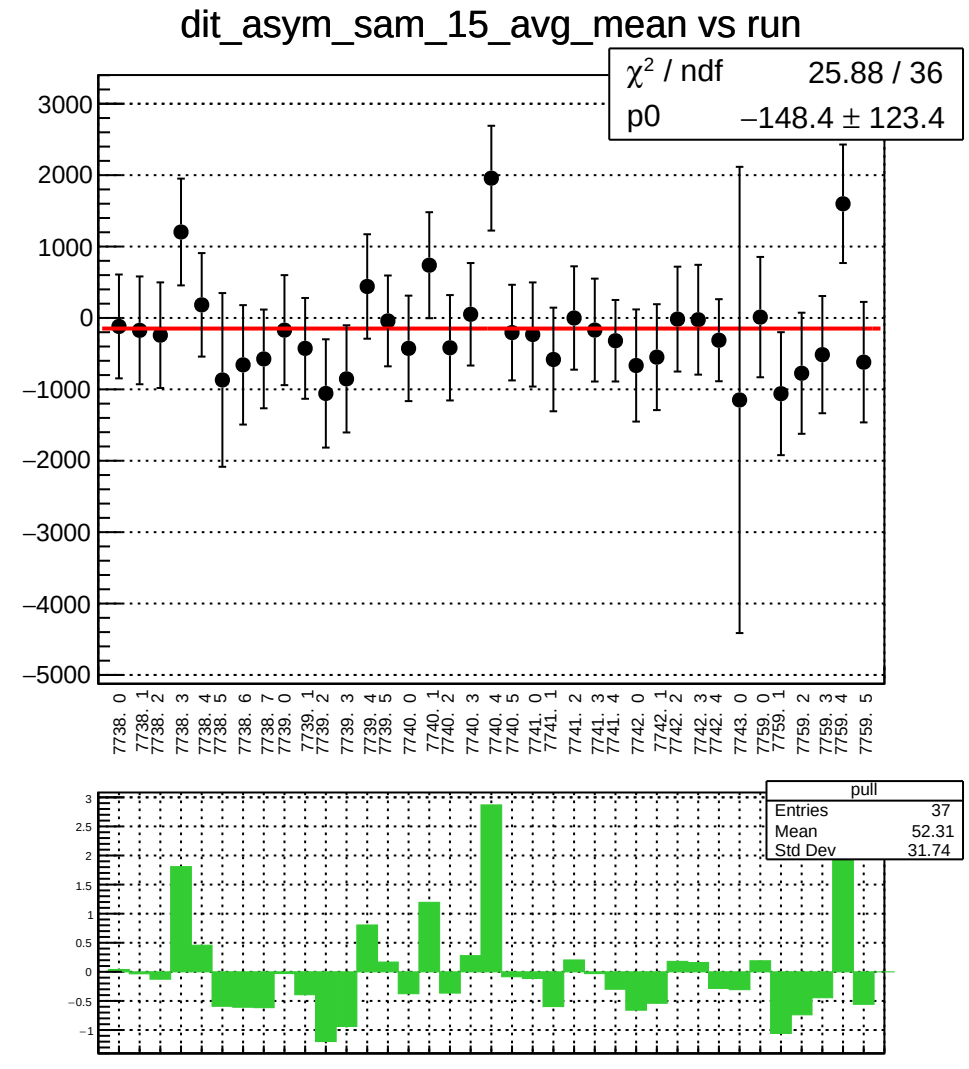

pull1D
Entries 37
Mean −0.005094
Std Dev 0.9426
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

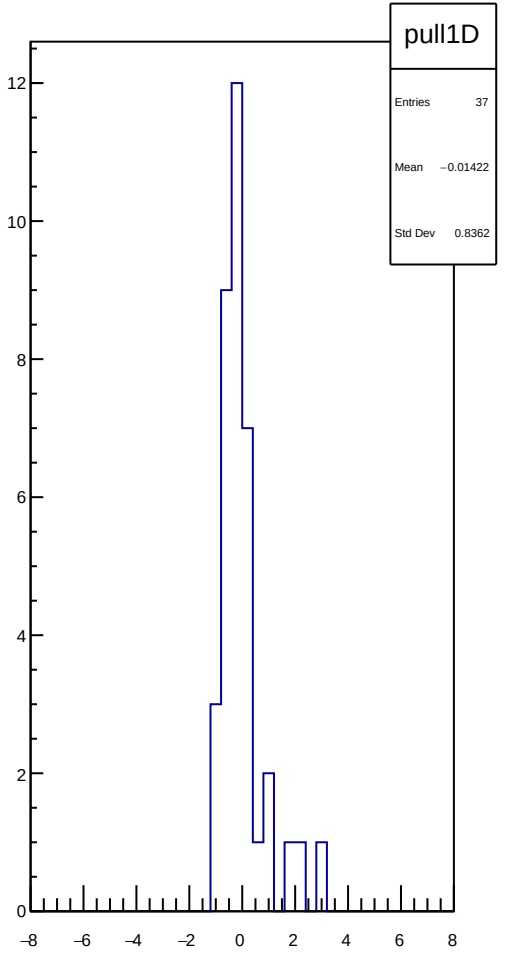

asym_sam8_correction_rms vs run
χ² / ndf 3.583e+04 / 36
p0 1005 ± 1.241
1500
1400
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

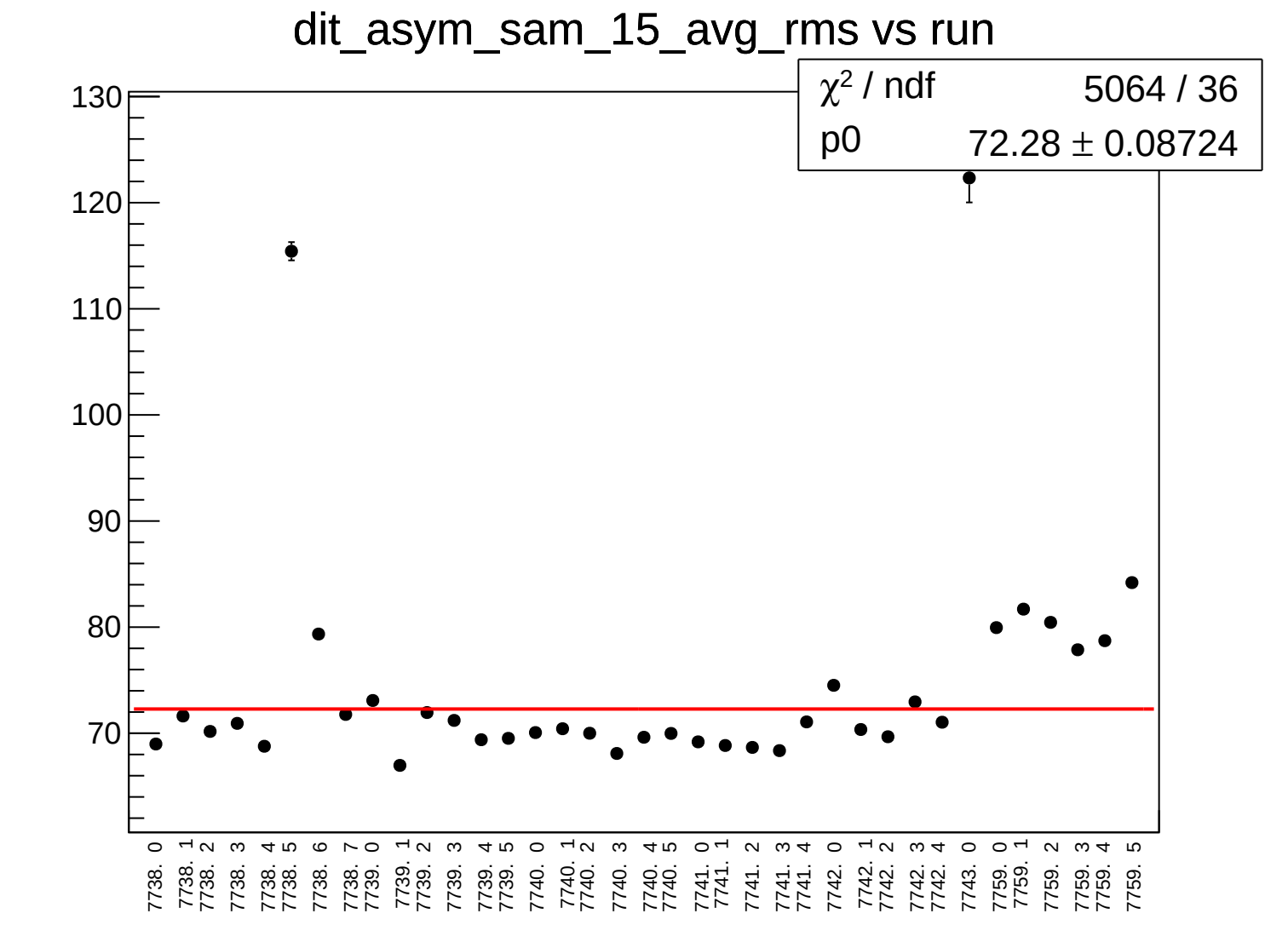

asym_sam8_mean vs run
χ² / ndf 34.29 / 36
p0 −131.2 ± 1812
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.1
Std Dev 163.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

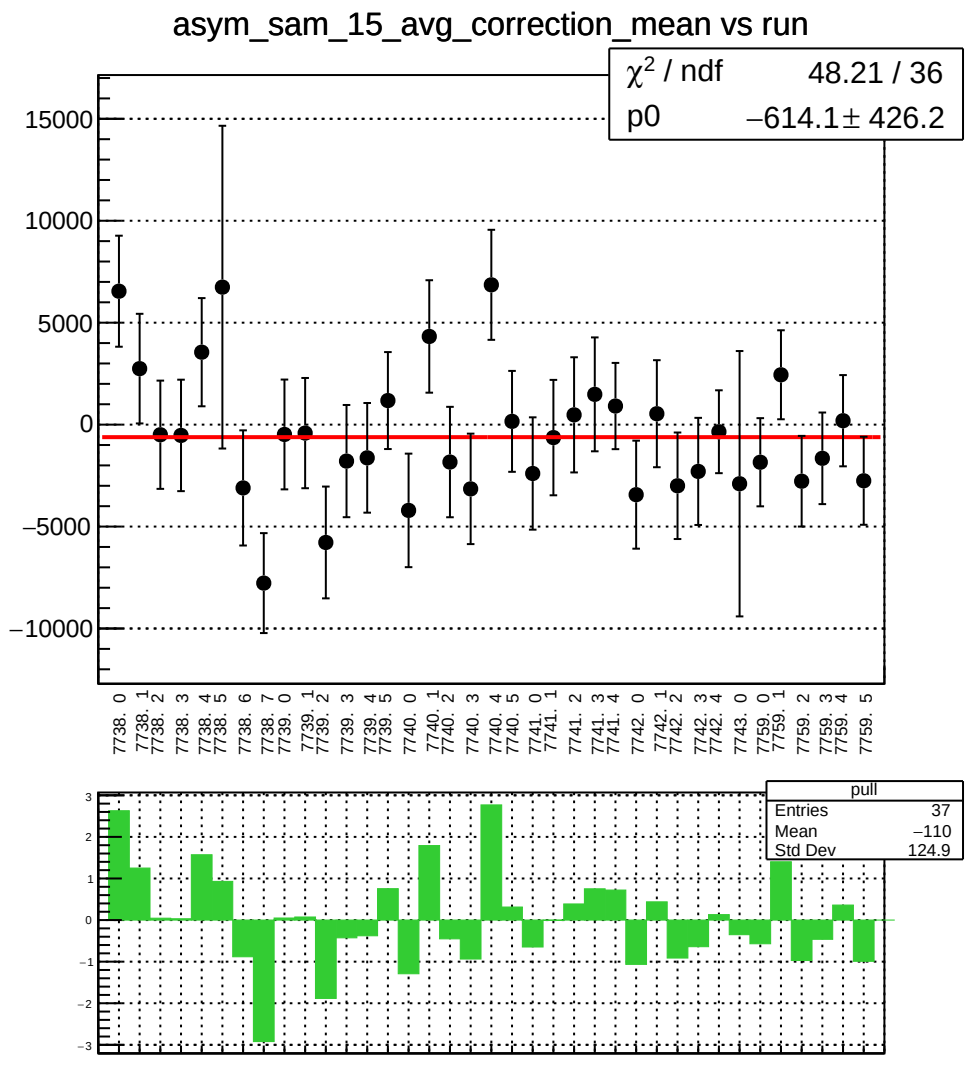

pull1D
Entries 37
Mean 0.01072
Std Dev 0.9626
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

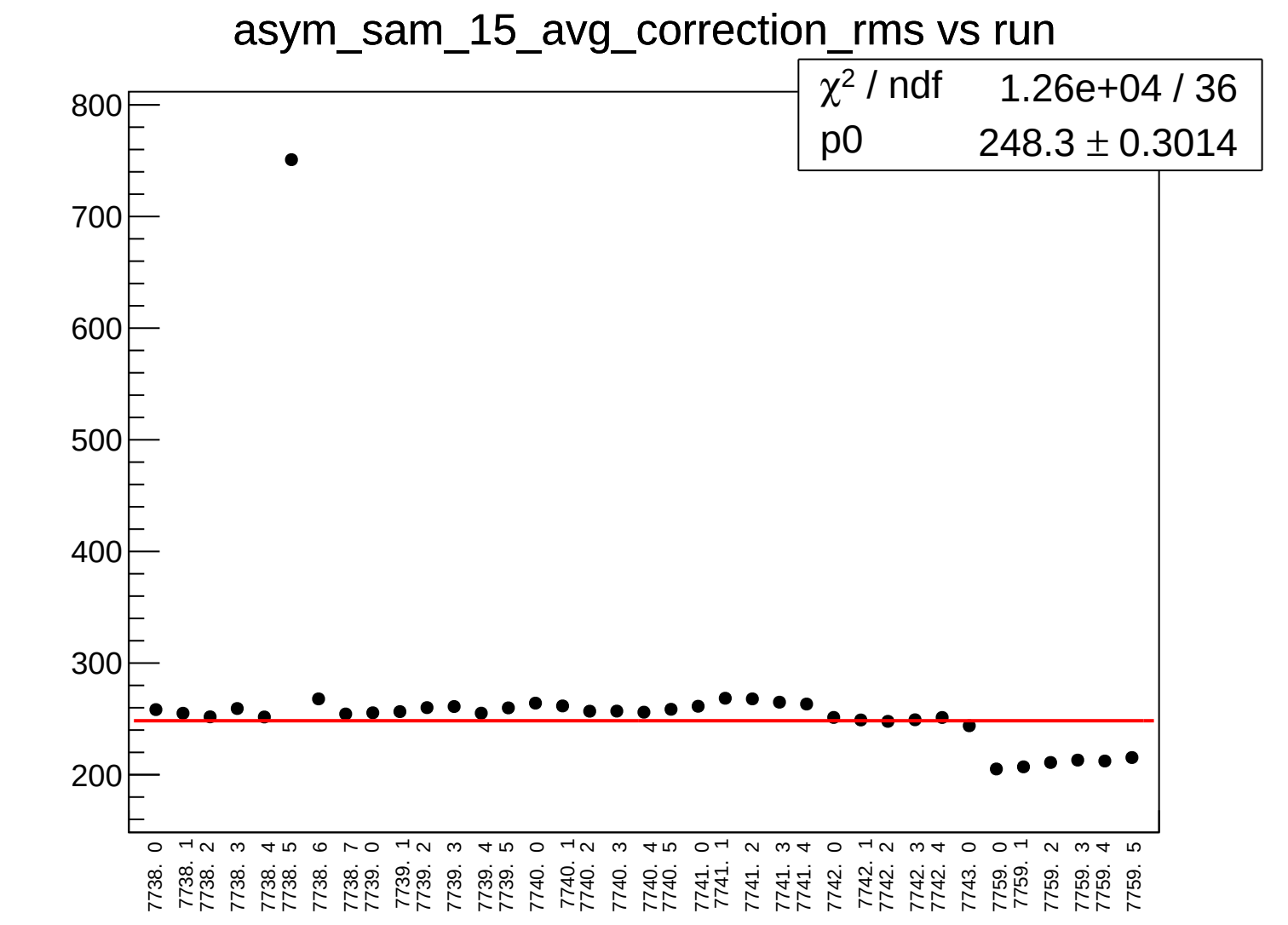

asym_sam8_rms vs run
χ² / ndf 2.311e+04 / 36
p0 1047 ± 1.281
1500
1400
1300
1200
1100
1000
900
800
700
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

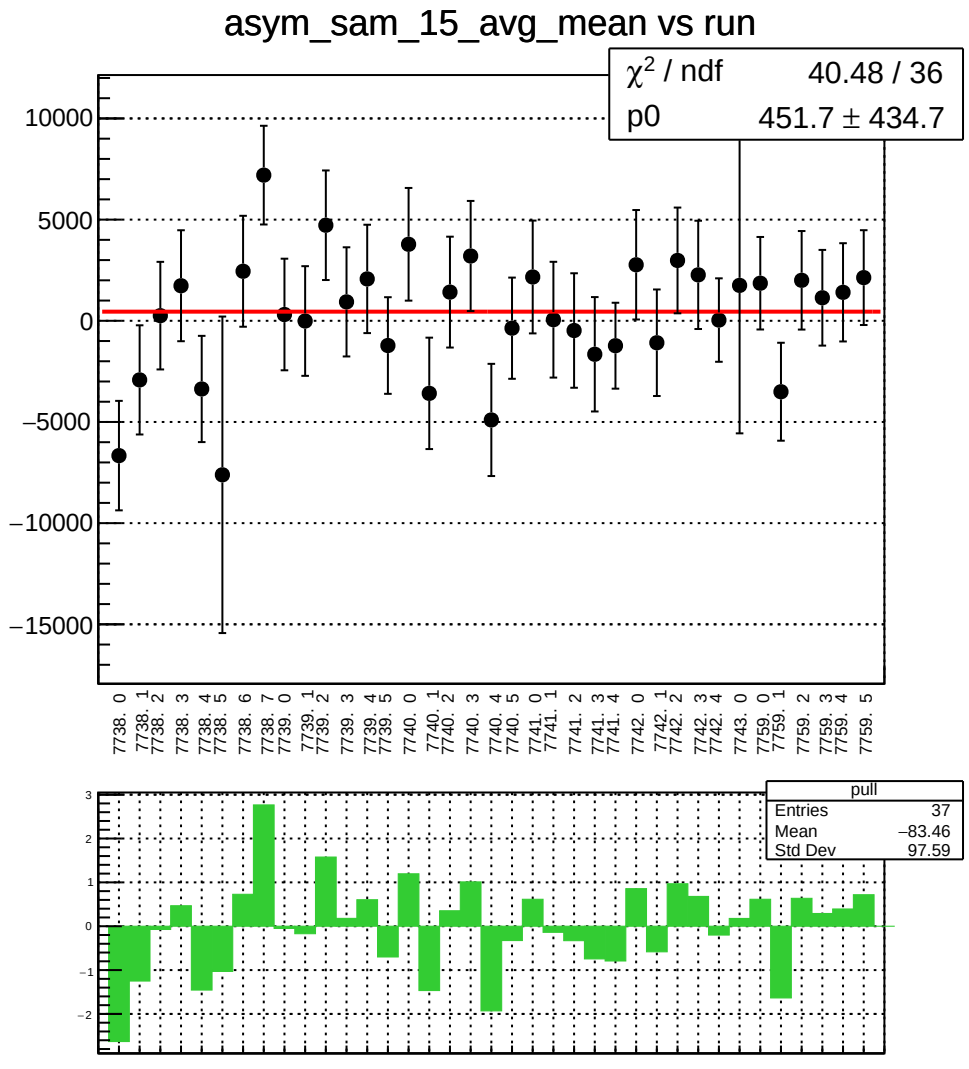

dit_asym_sam_15_avg_mean vs run
χ² / ndf 25.88 / 36
p0 −148.4 ± 123.4
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 52.31
Std Dev 31.74
3
2.5
2
1.5
1
0.5
0
−0.5
−1

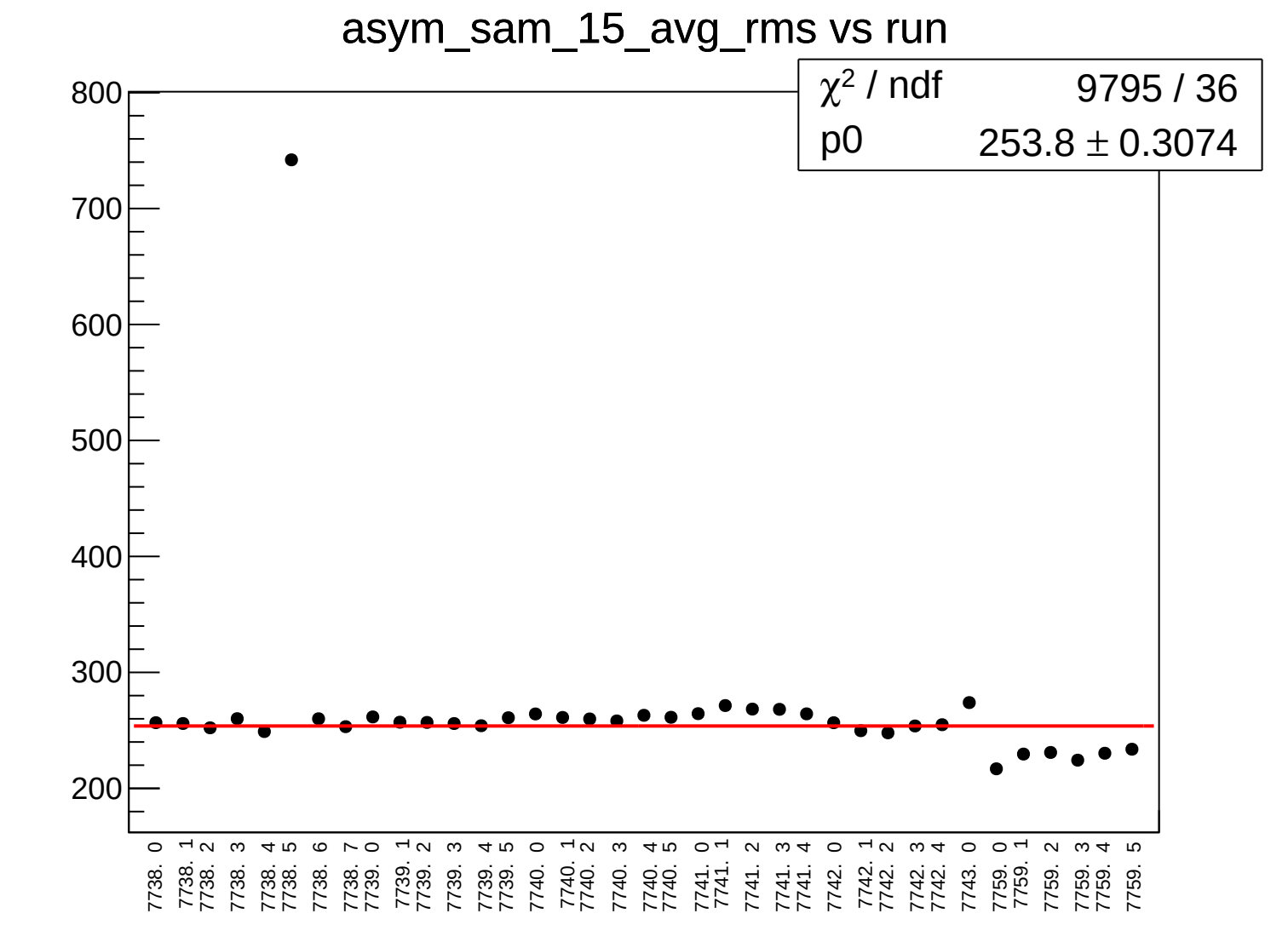

pull1D
Entries 37
Mean −0.01422
Std Dev 0.8362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

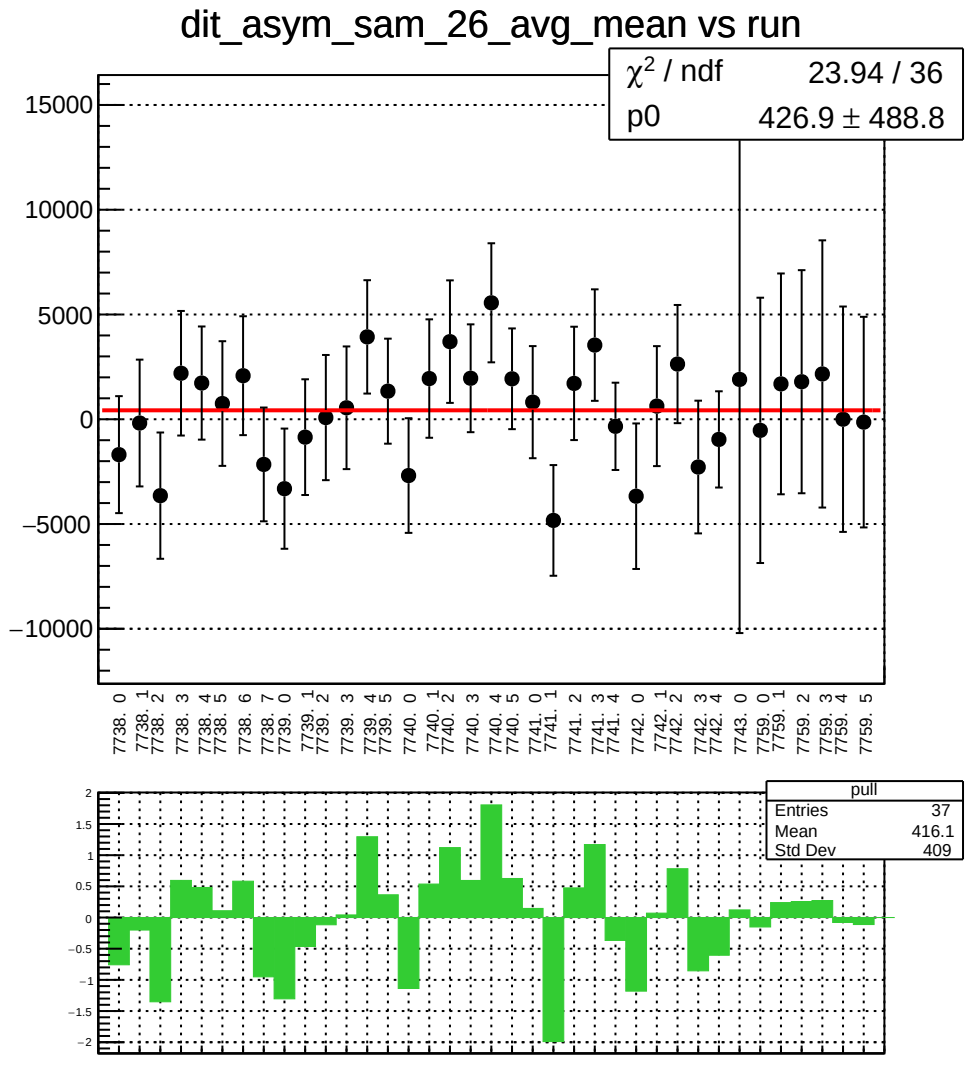

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 5064 / 36
p0 72.28 ± 0.08724
130
120
110
100
90
80
70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

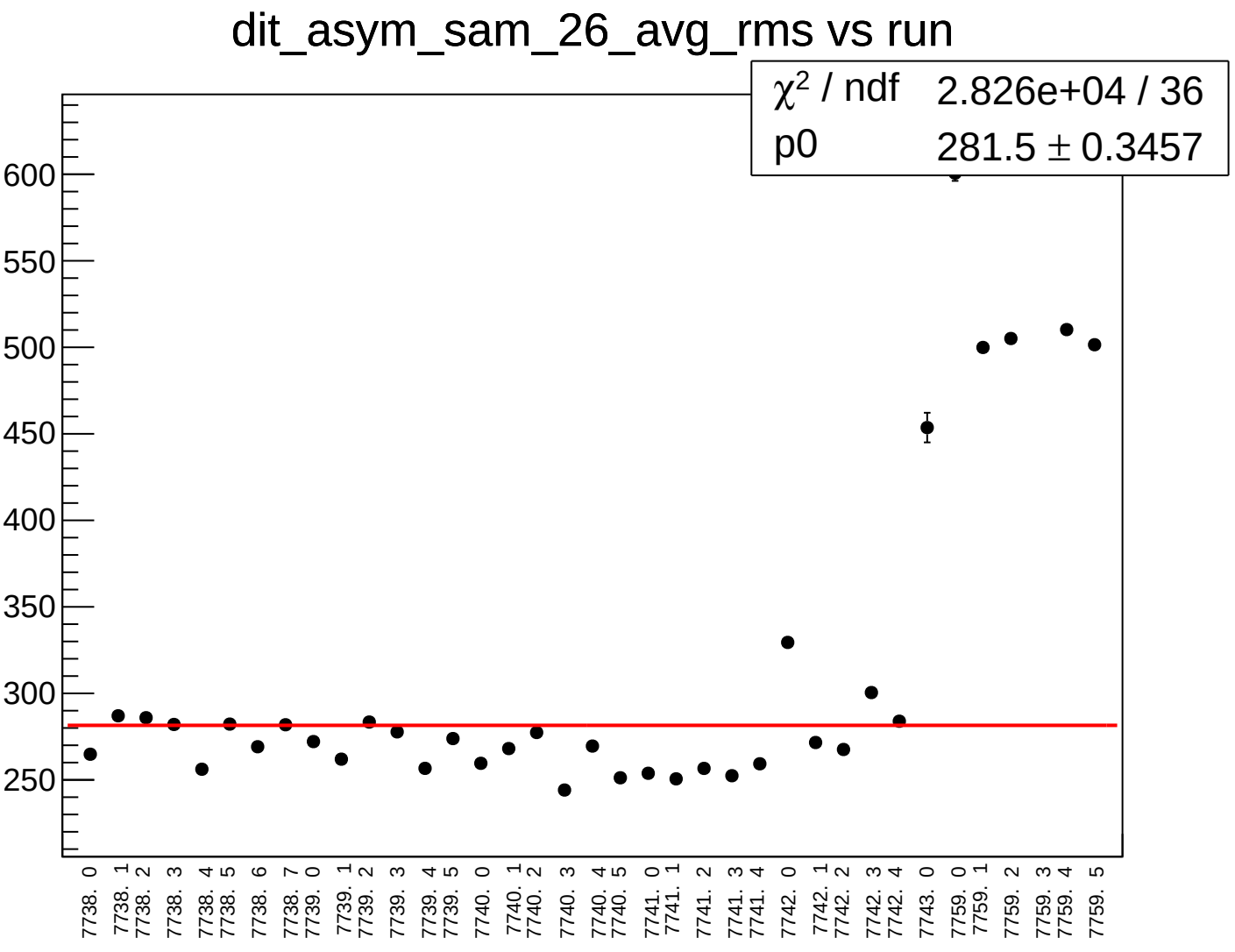

asym_sam_15_avg_correction_mean vs run
χ² / ndf 48.21 / 36
p0 −614.1 ± 426.2
15000
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −110
Std Dev 124.9
3
2
1
0
−1
−2
−3
pull1D
Entries 37
Mean 0.01646
Std Dev 1.141
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

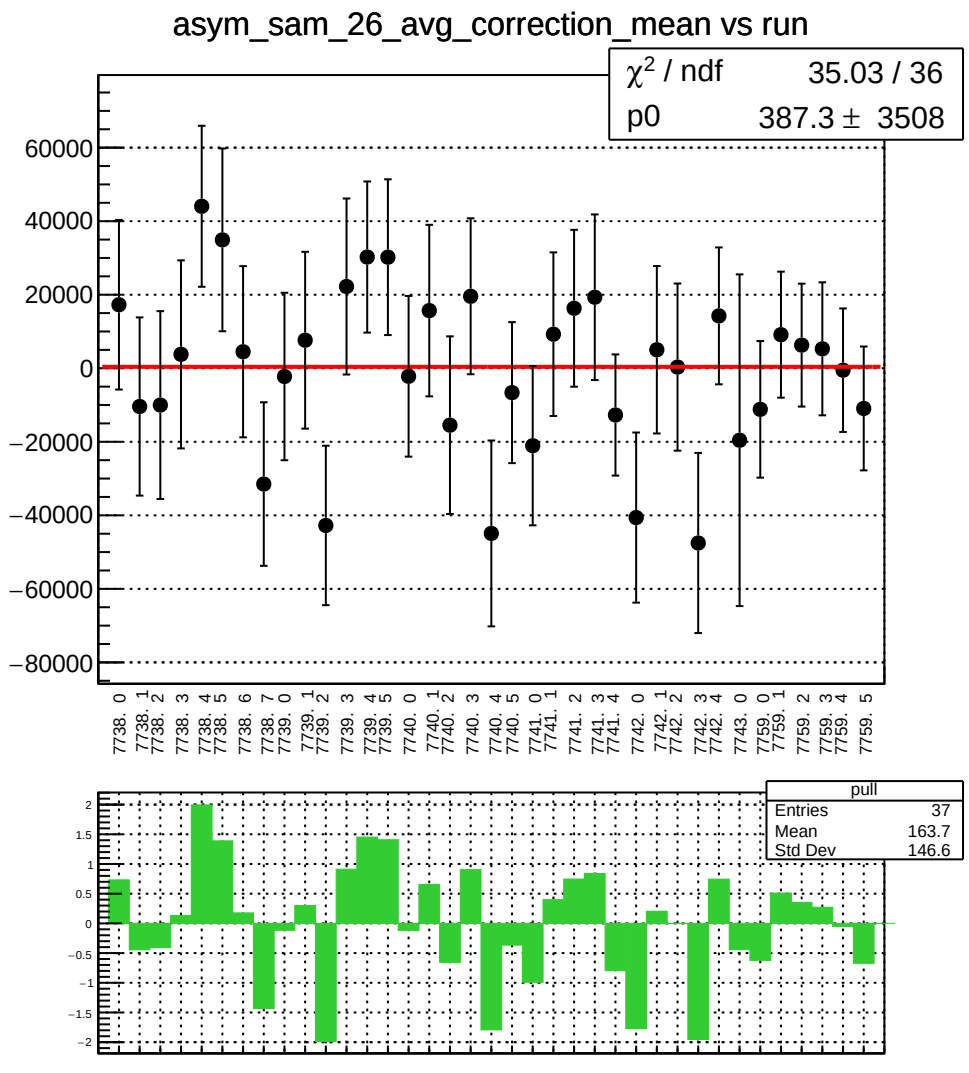

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.26e+04 / 36
p0 248.3 ± 0.3014
800
700
600
500
400
300
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

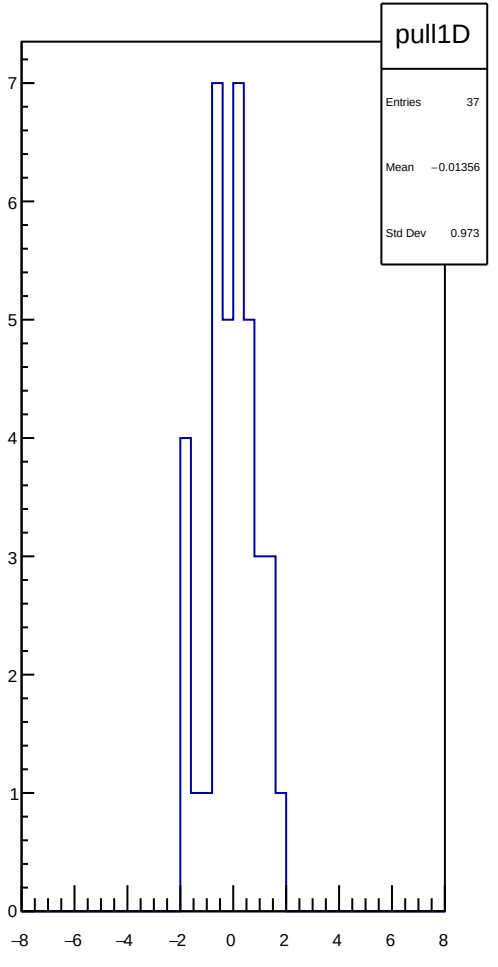

asym_sam_15_avg_mean vs run
χ² / ndf 40.48 / 36
p0 451.7 ± 434.7
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −83.46
Std Dev 97.59
3
2
1
0
−1
−2
pull1D
Entries 37
Mean −0.01847
Std Dev 1.046
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

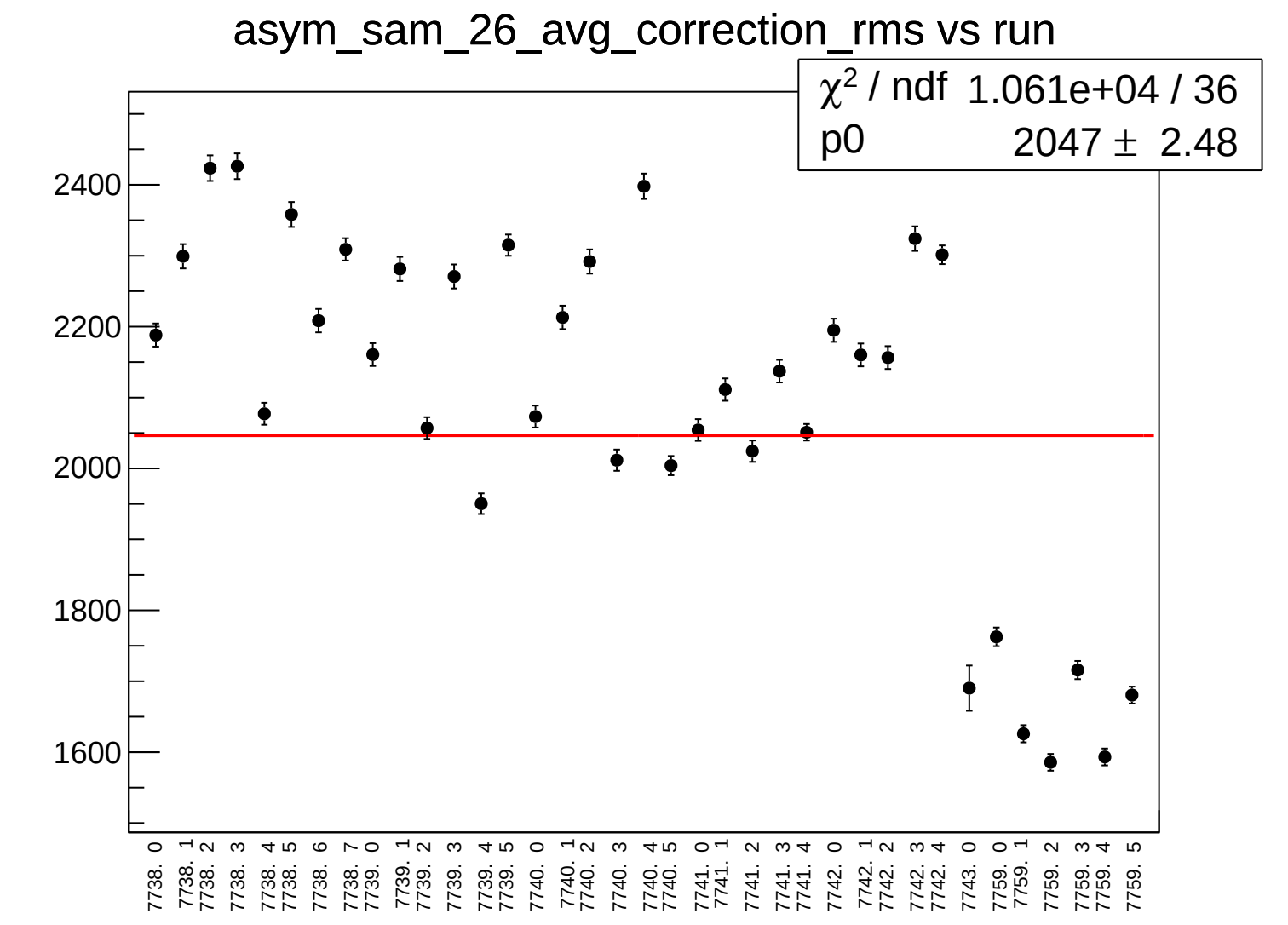

asym_sam_15_avg_rms vs run
χ² / ndf 9795 / 36
p0 253.8 ± 0.3074
800
700
600
500
400
300
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

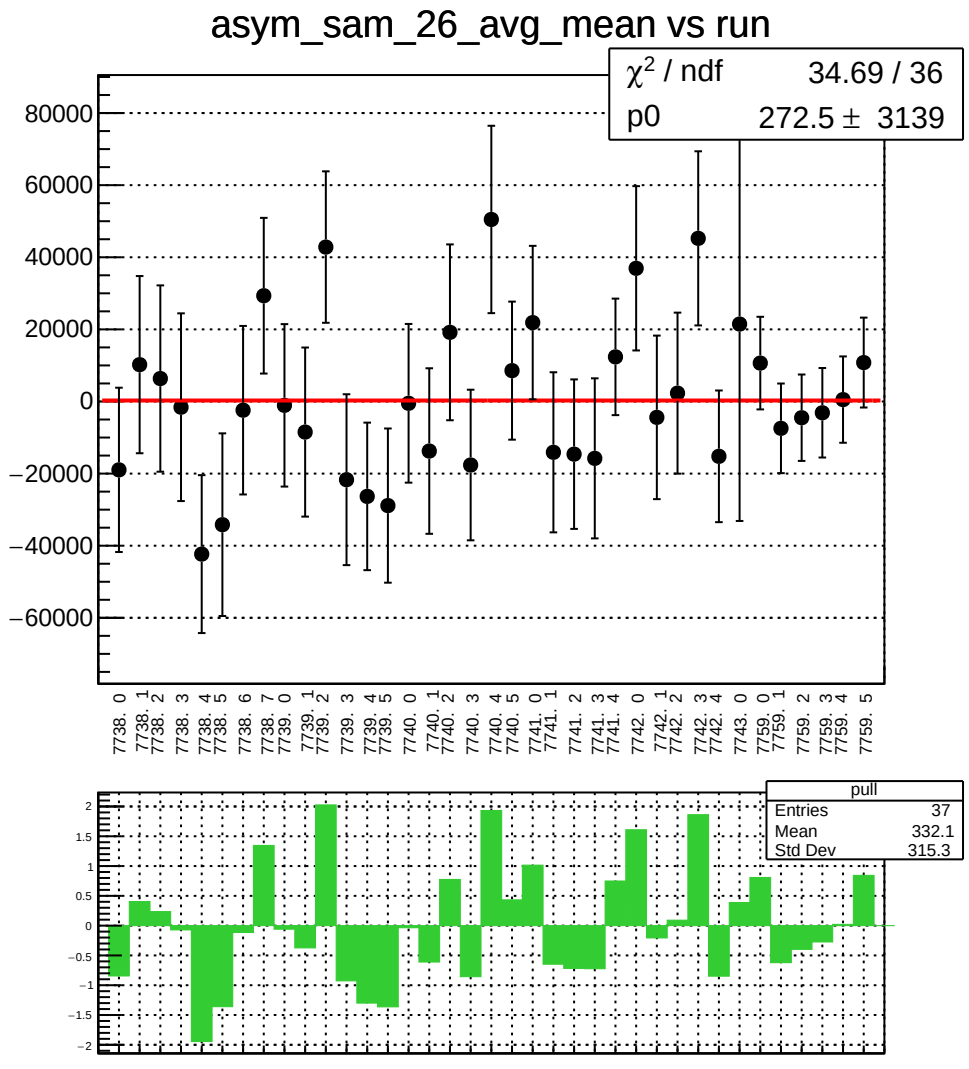

dit_asym_sam_26_avg_mean vs run
χ² / ndf 23.94 / 36
p0 426.9 ± 488.8
15000
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 416.1
Std Dev 409
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.00175
Std Dev 0.8044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

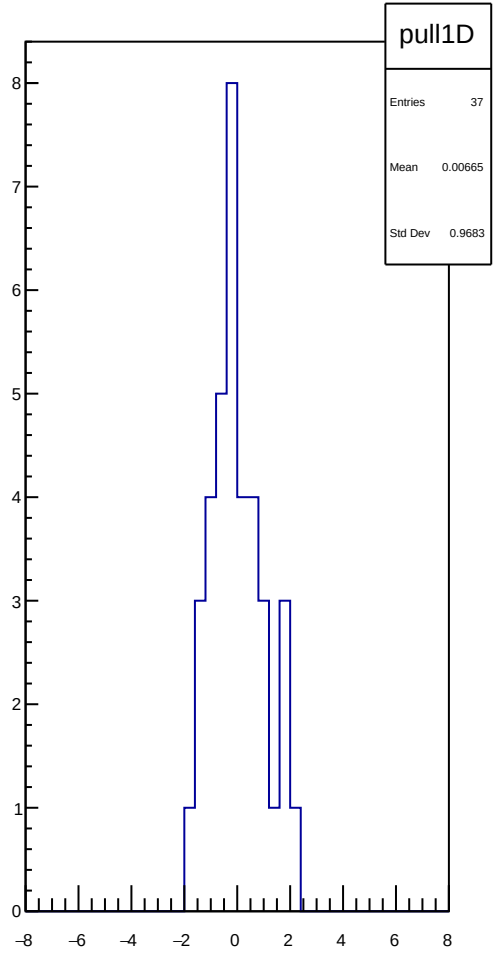

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.826e+04 / 36
p0 281.5 ± 0.3457
600
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

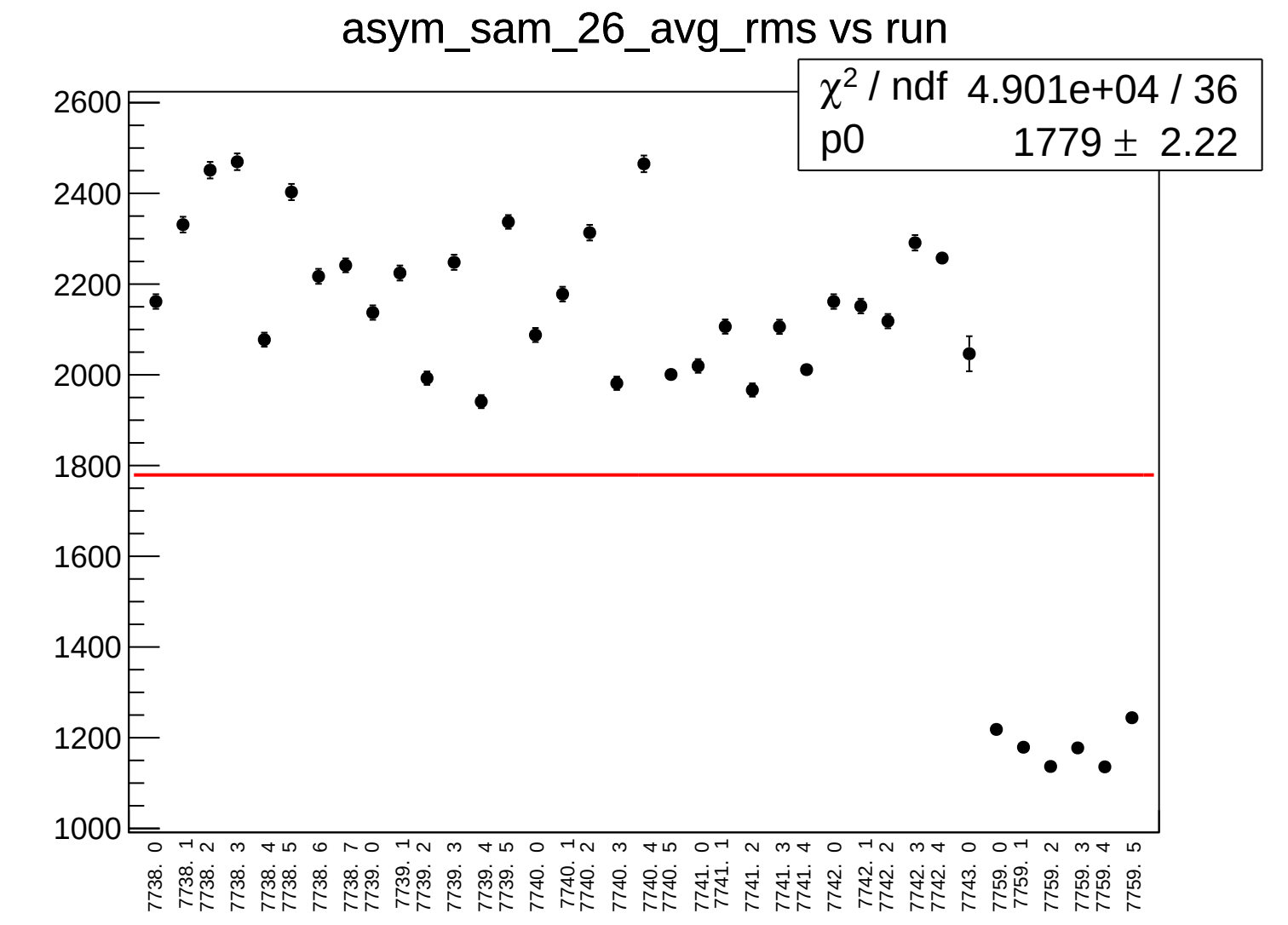

asym_sam_26_avg_correction_mean vs run
χ² / ndf 35.03 / 36
p0 387.3 ± 3508
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 163.7
Std Dev 146.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

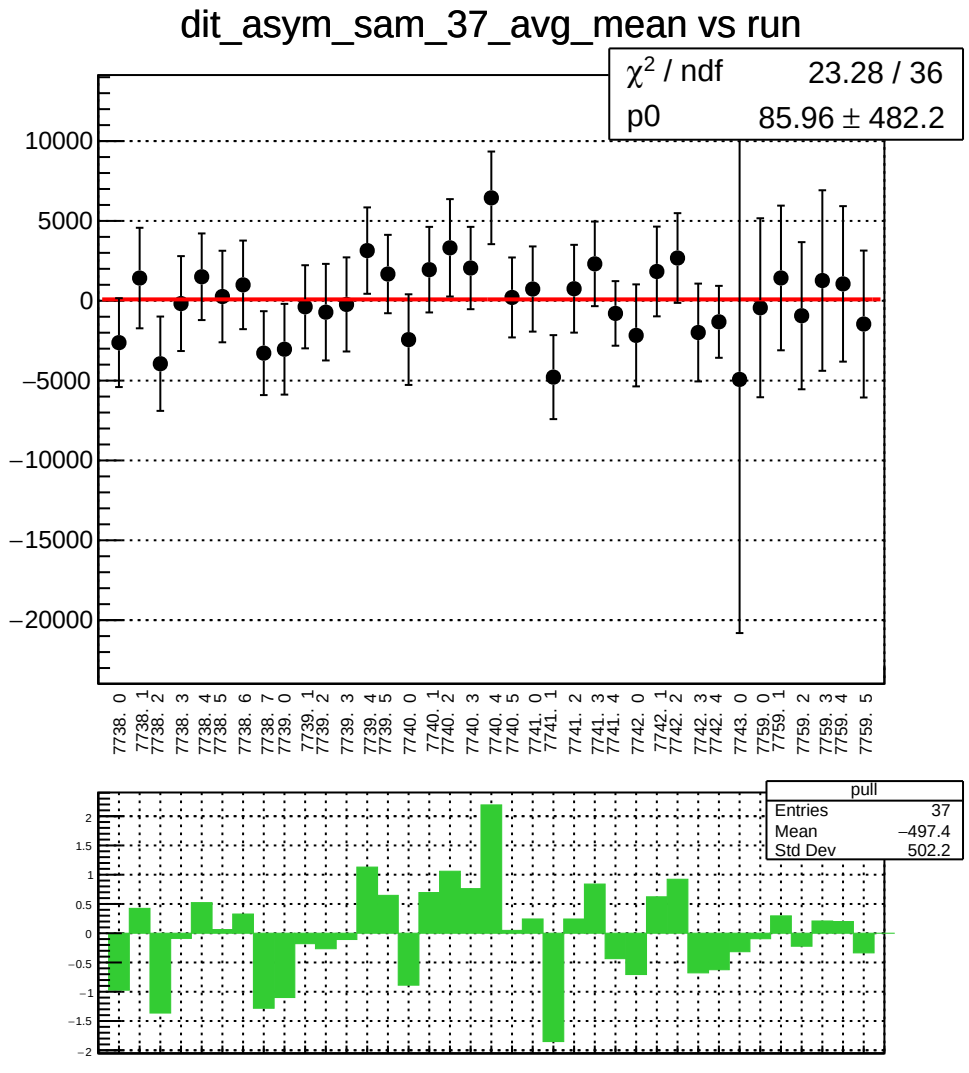

pull1D
Entries 37
Mean −0.01356
Std Dev 0.973
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

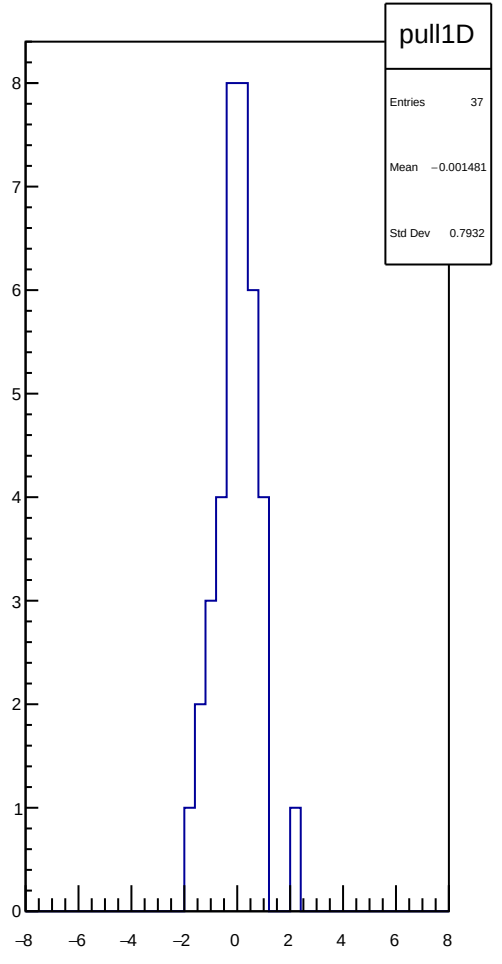

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.061e+04 / 36
p0 2047 ± 2.48
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

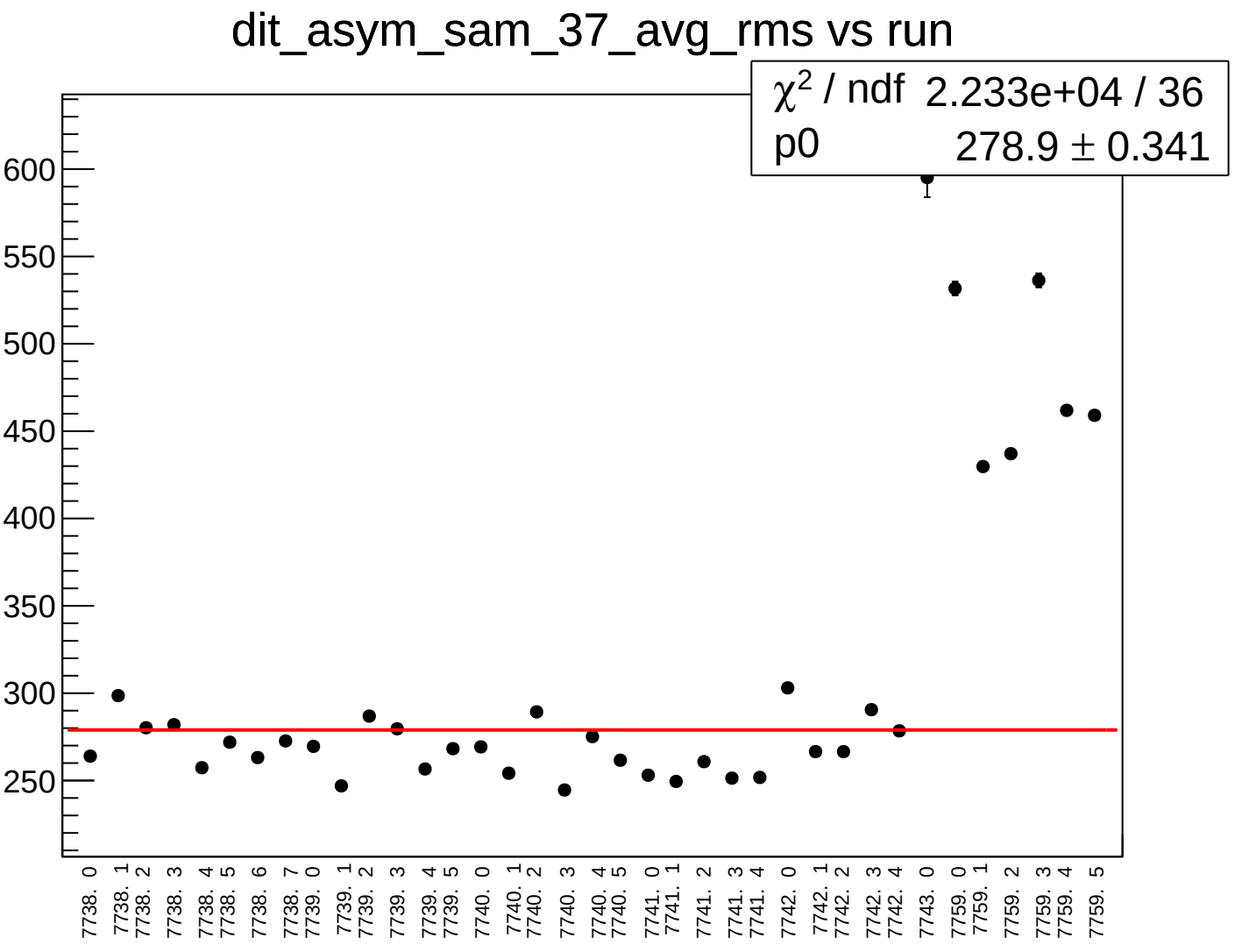

asym_sam_26_avg_mean vs run
χ² / ndf 34.69 / 36
p0 272.5 ± 3139
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 332.1
Std Dev 315.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

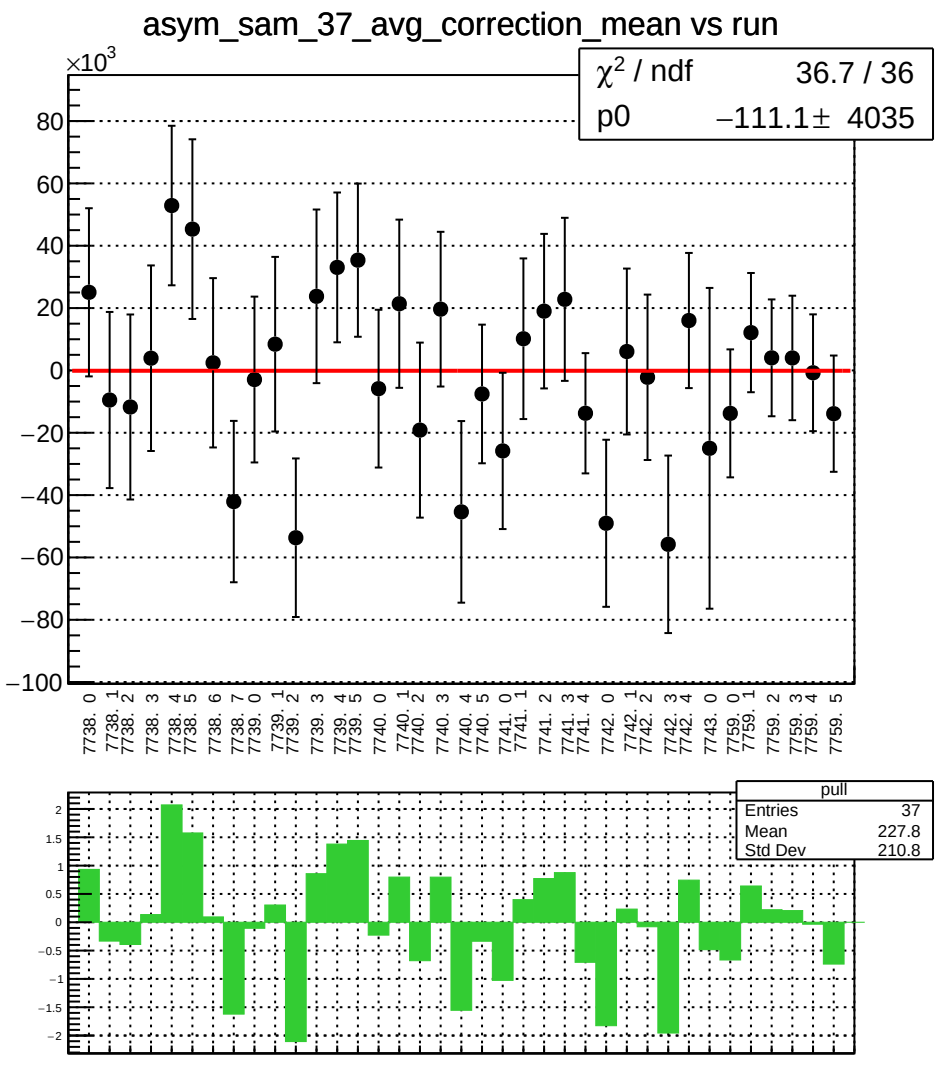

pull1D
Entries 37
Mean 0.00665
Std Dev 0.9683
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

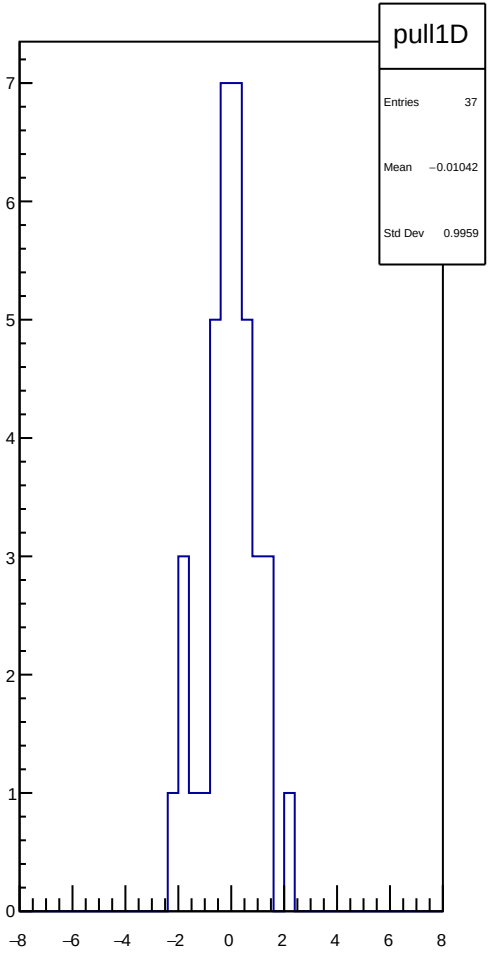

asym_sam_26_avg_rms vs run
χ² / ndf 4.901e+04 / 36
p0 1779 ± 2.22
2600
2400
2200
2000
1800
1600
1400
1200
1000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

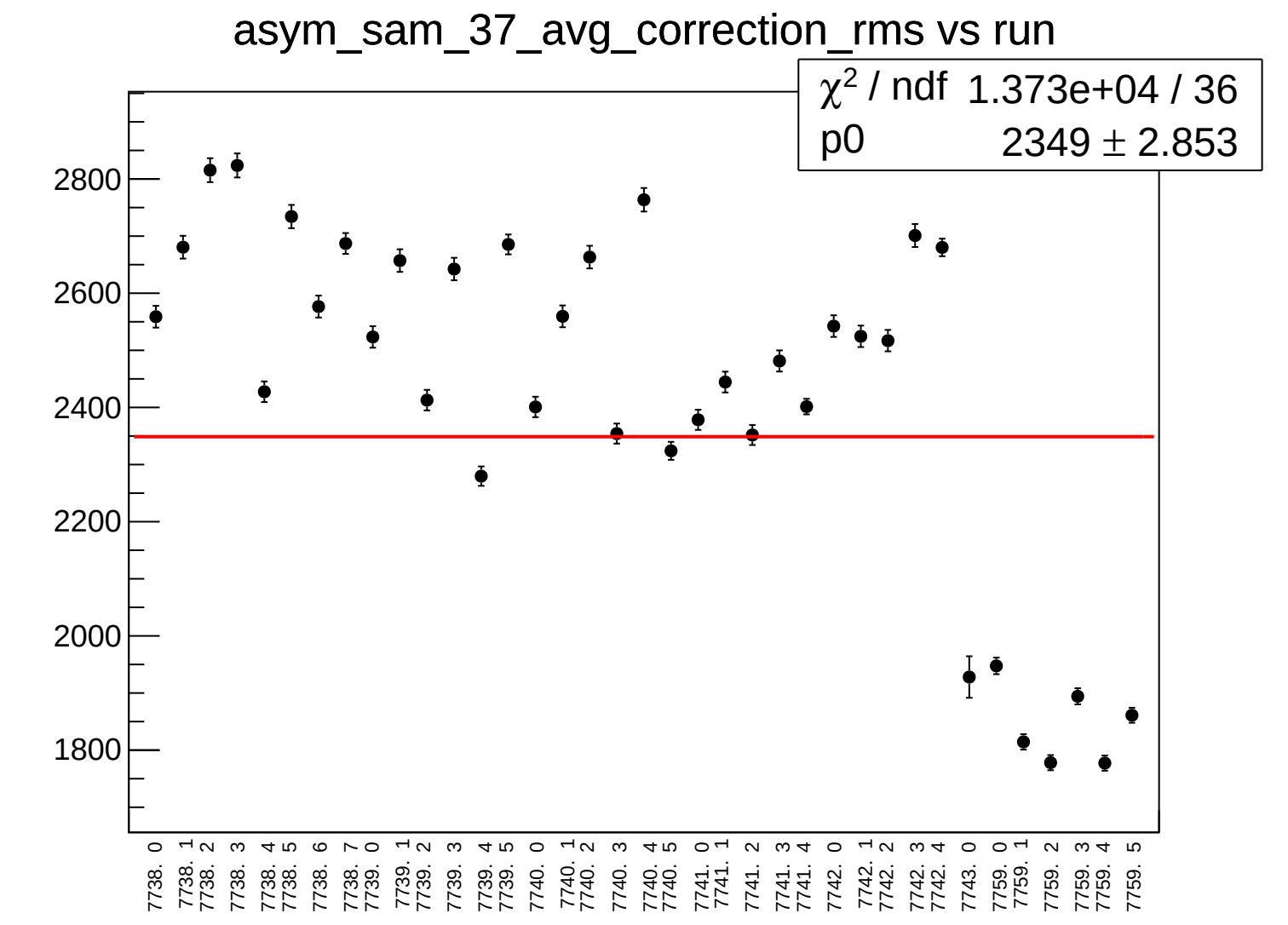

dit_asym_sam_37_avg_mean vs run
χ² / ndf 23.28 / 36
p0 85.96 ± 482.2
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −497.4
Std Dev 502.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

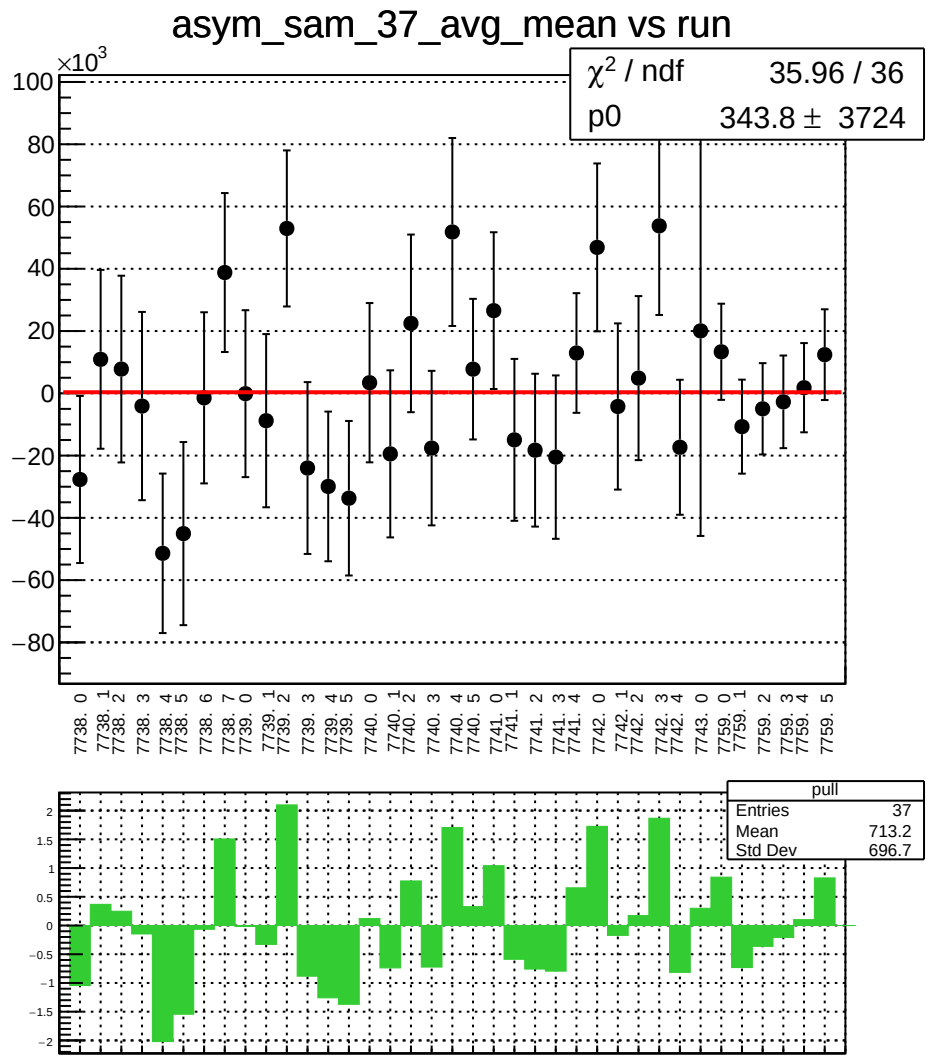

pull1D
Entries 37
Mean −0.001481
Std Dev 0.7932
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

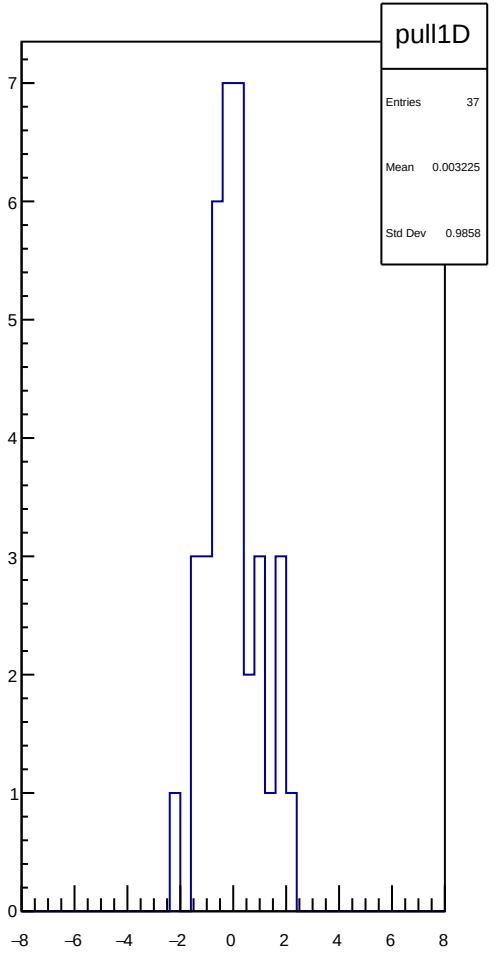

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.233e+04 / 36
p0 278.9 ± 0.341
600
550
500
450
400
350
300
250
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

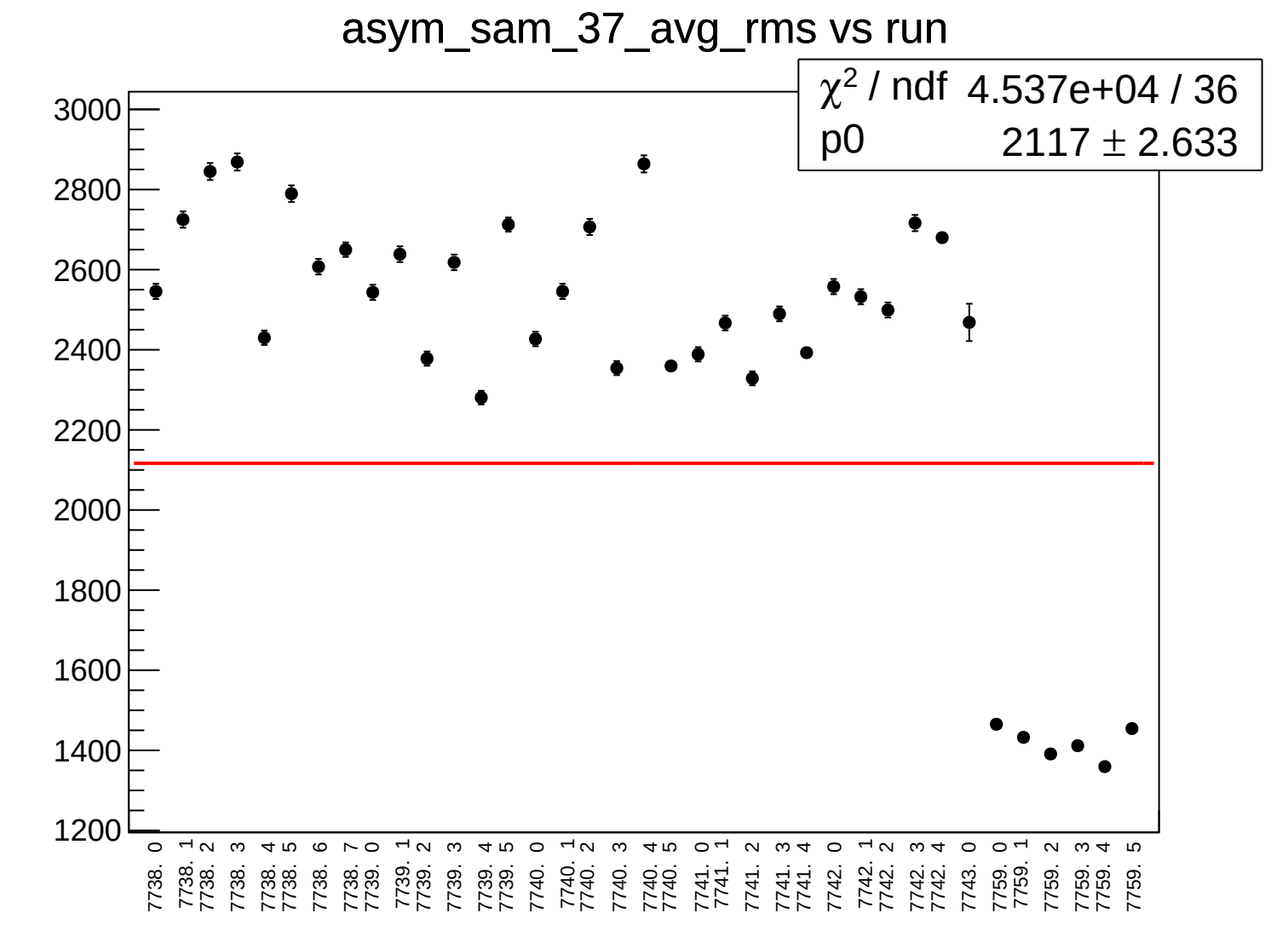

asym_sam_37_avg_correction_mean vs run
×10^3
χ² / ndf 36.7 / 36
p0 −111.1± 4035
80
60
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 227.8
Std Dev 210.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

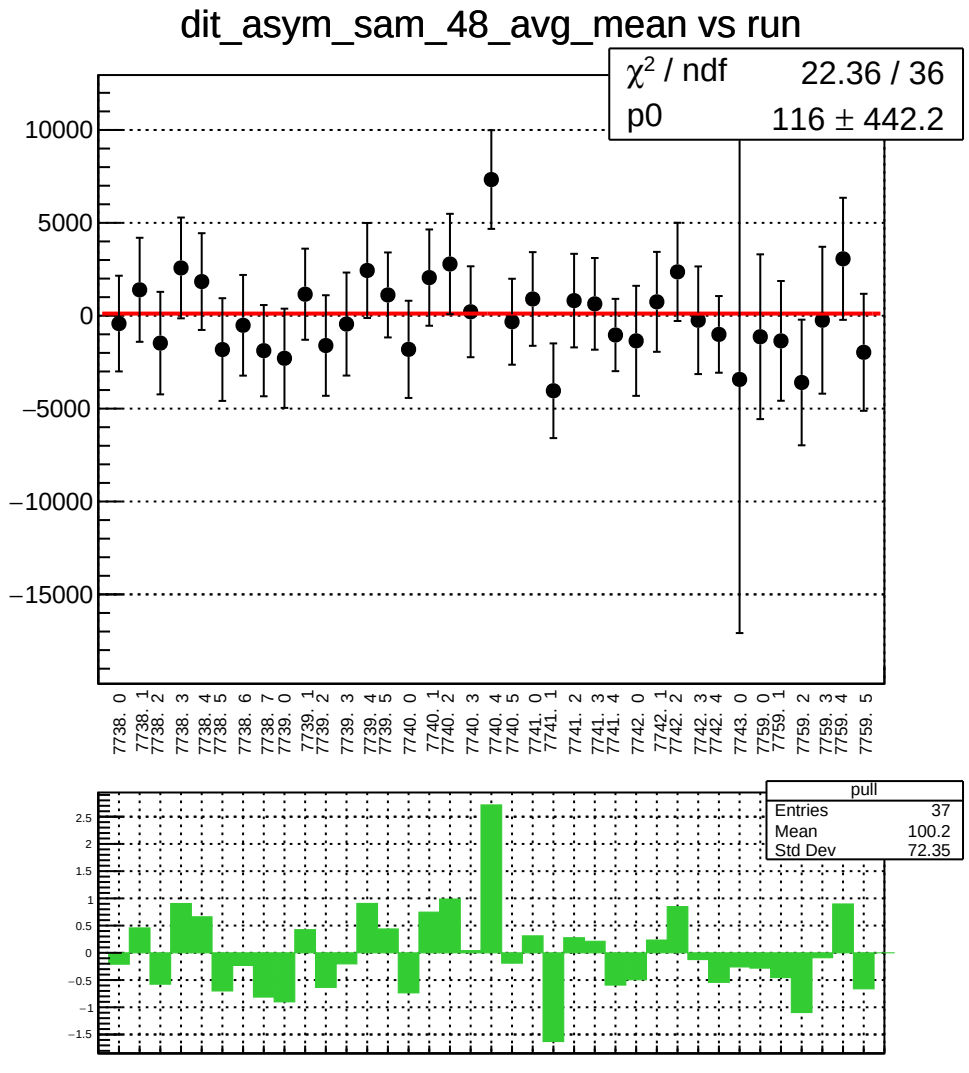

pull1D
Entries 37
Mean −0.01042
Std Dev 0.9959
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

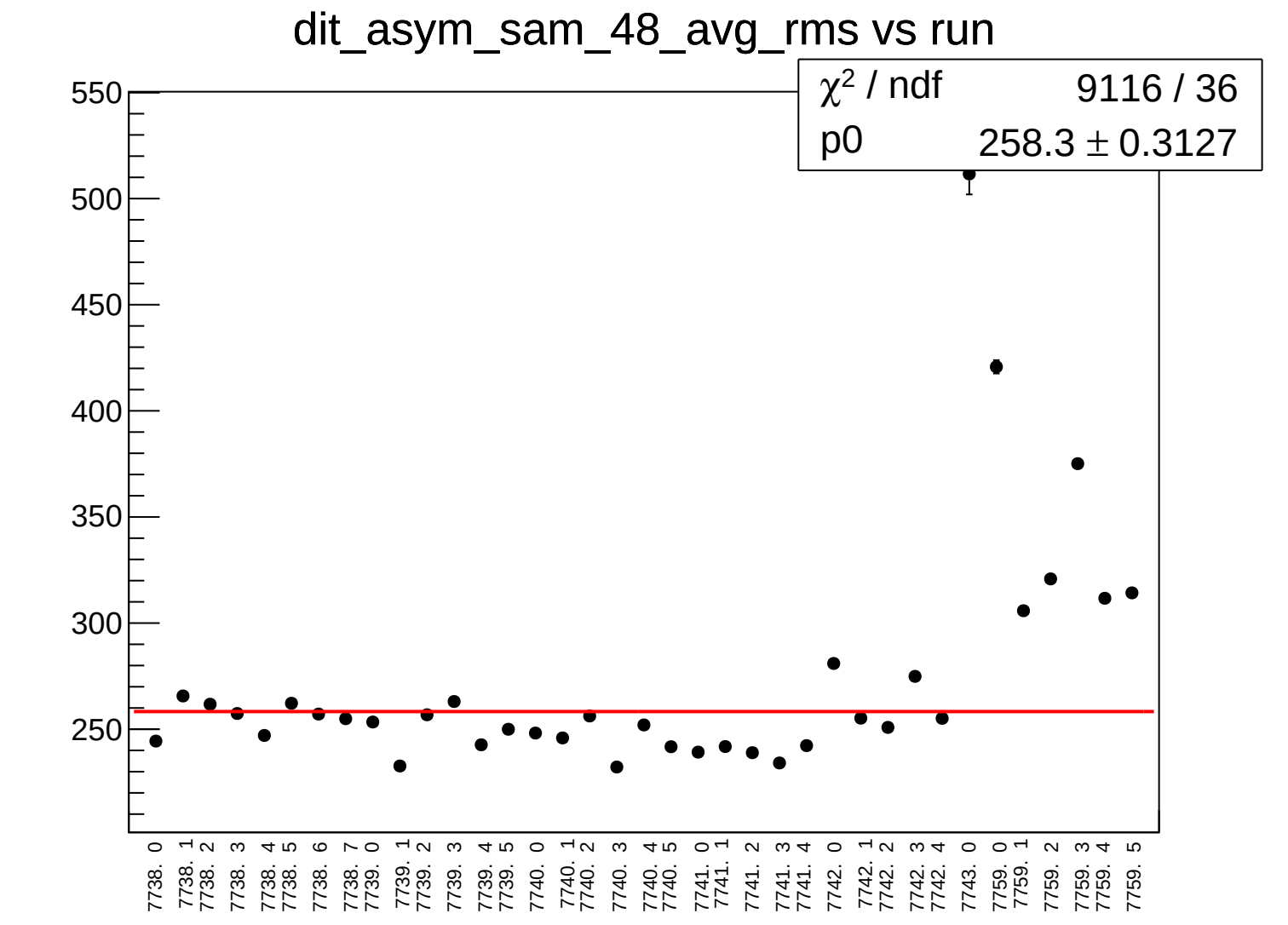

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.373e+04 / 36
p0 2349 ± 2.853
2800
2600
2400
2200
2000
1800
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

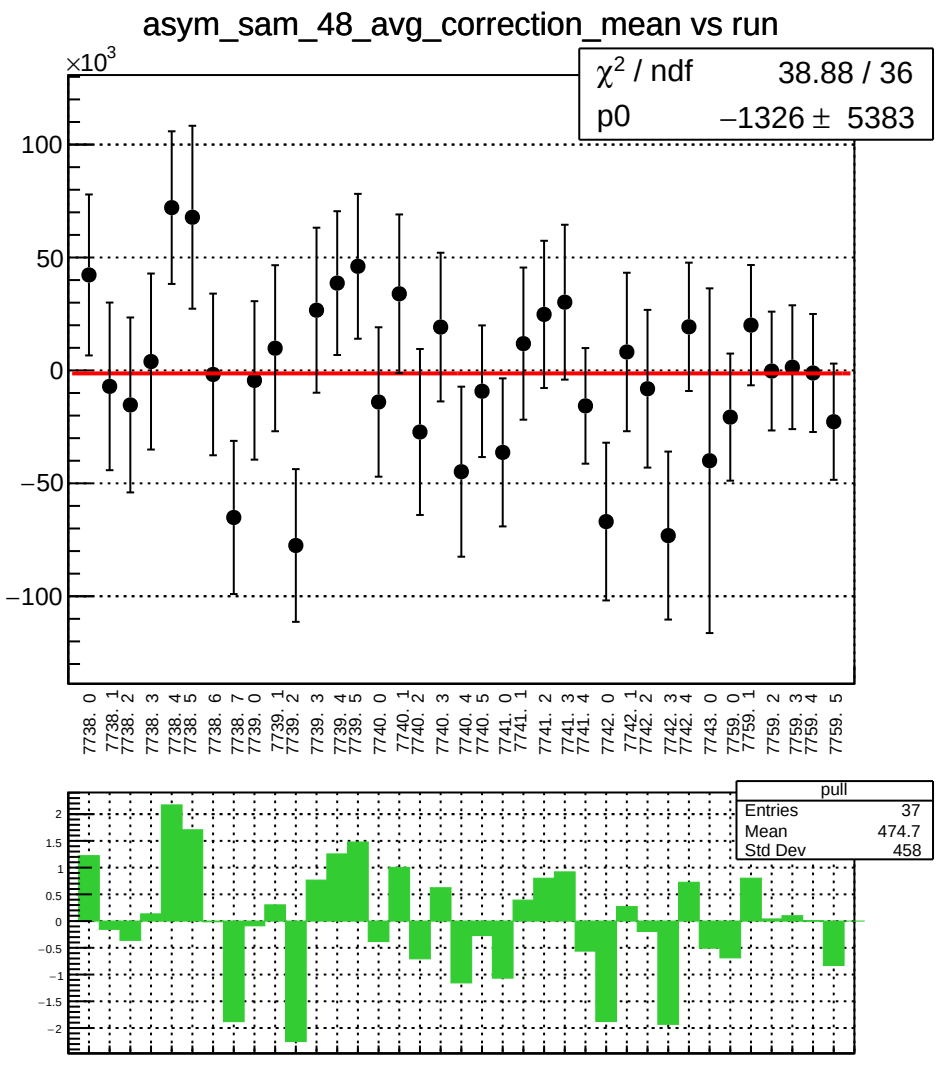

asym_sam_37_avg_mean vs run
×10^3
χ^2 / ndf 35.96 / 36
p0 343.8 ± 3724
pull
Entries 37
Mean 713.2
Std Dev 696.7

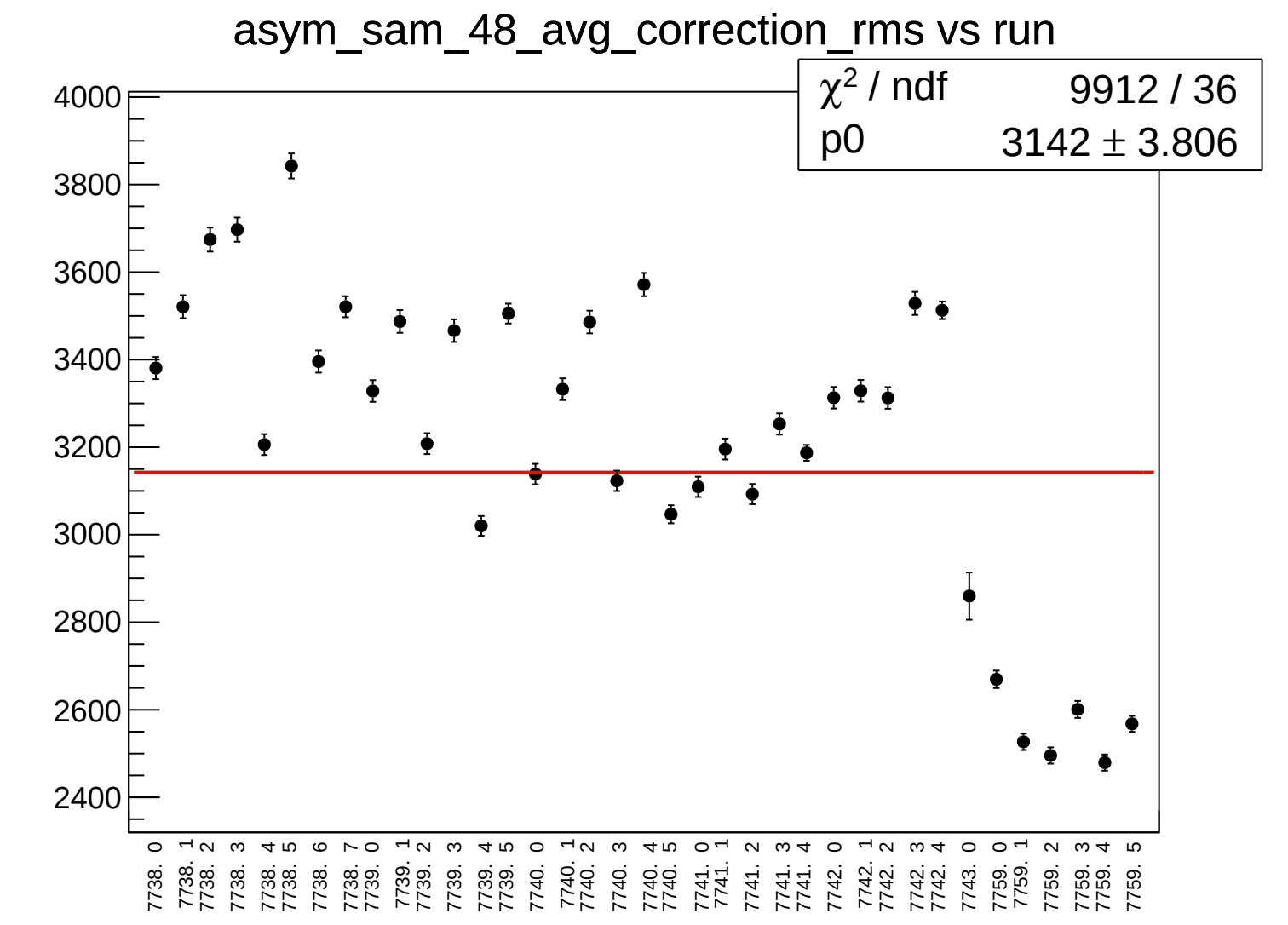

pull1D
Entries 37
Mean 0.003225
Std Dev 0.9858

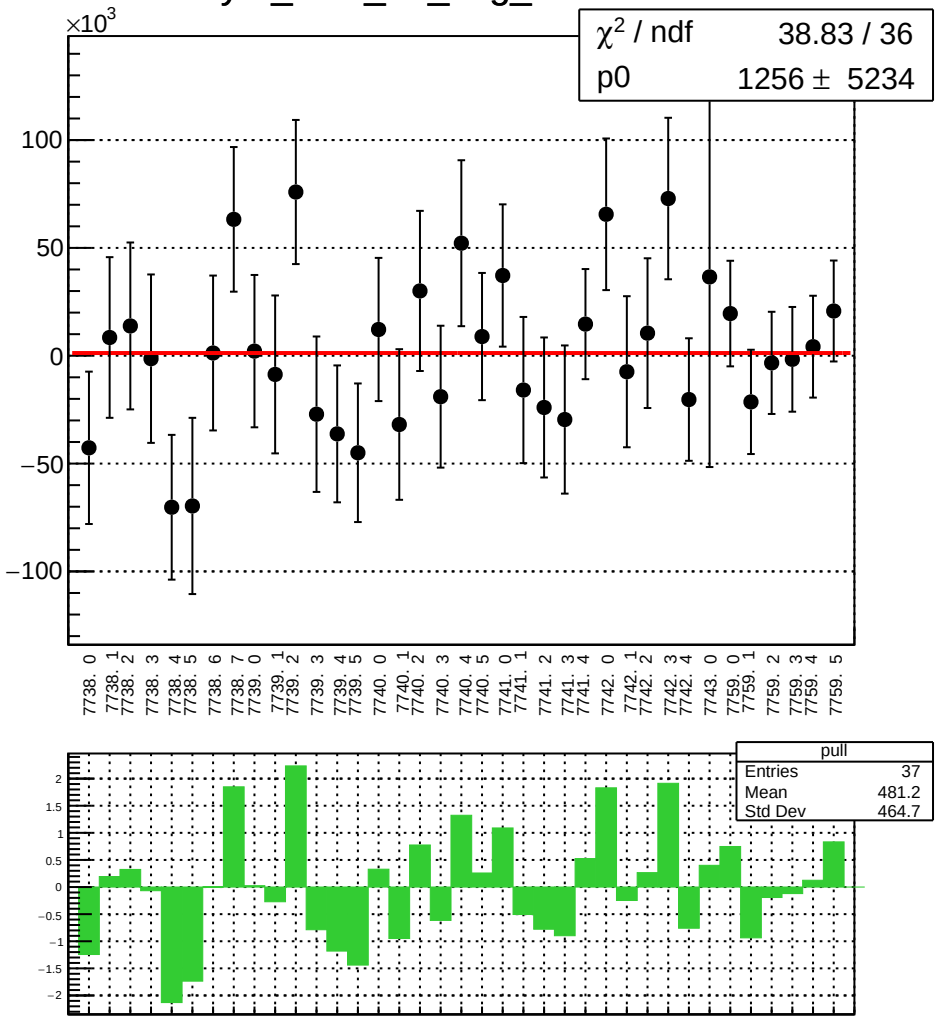

asym_sam_37_avg_rms vs run
χ² / ndf 4.537e+04 / 36
p0 2117 ± 2.633
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

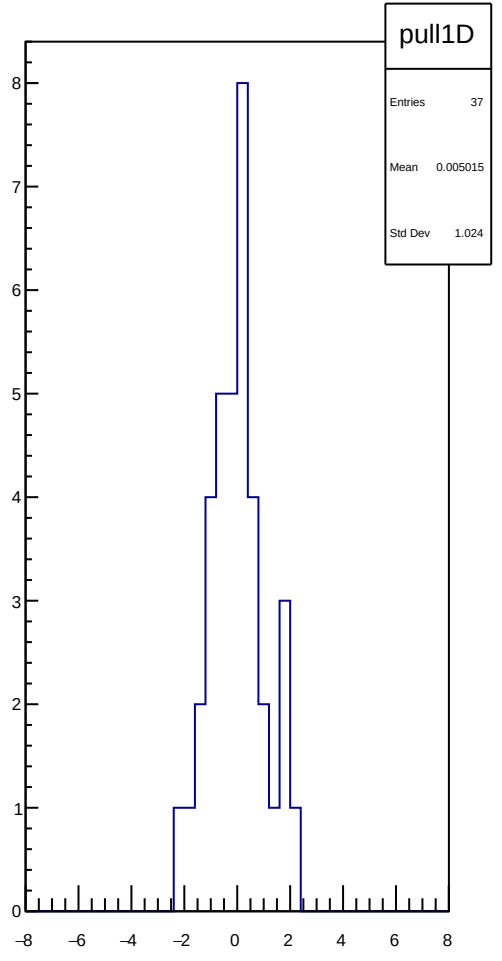

dit_asym_sam_48_avg_mean vs run
χ² / ndf 22.36 / 36
p0 116 ± 442.2
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 100.2
Std Dev 72.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.009524
Std Dev 0.7773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

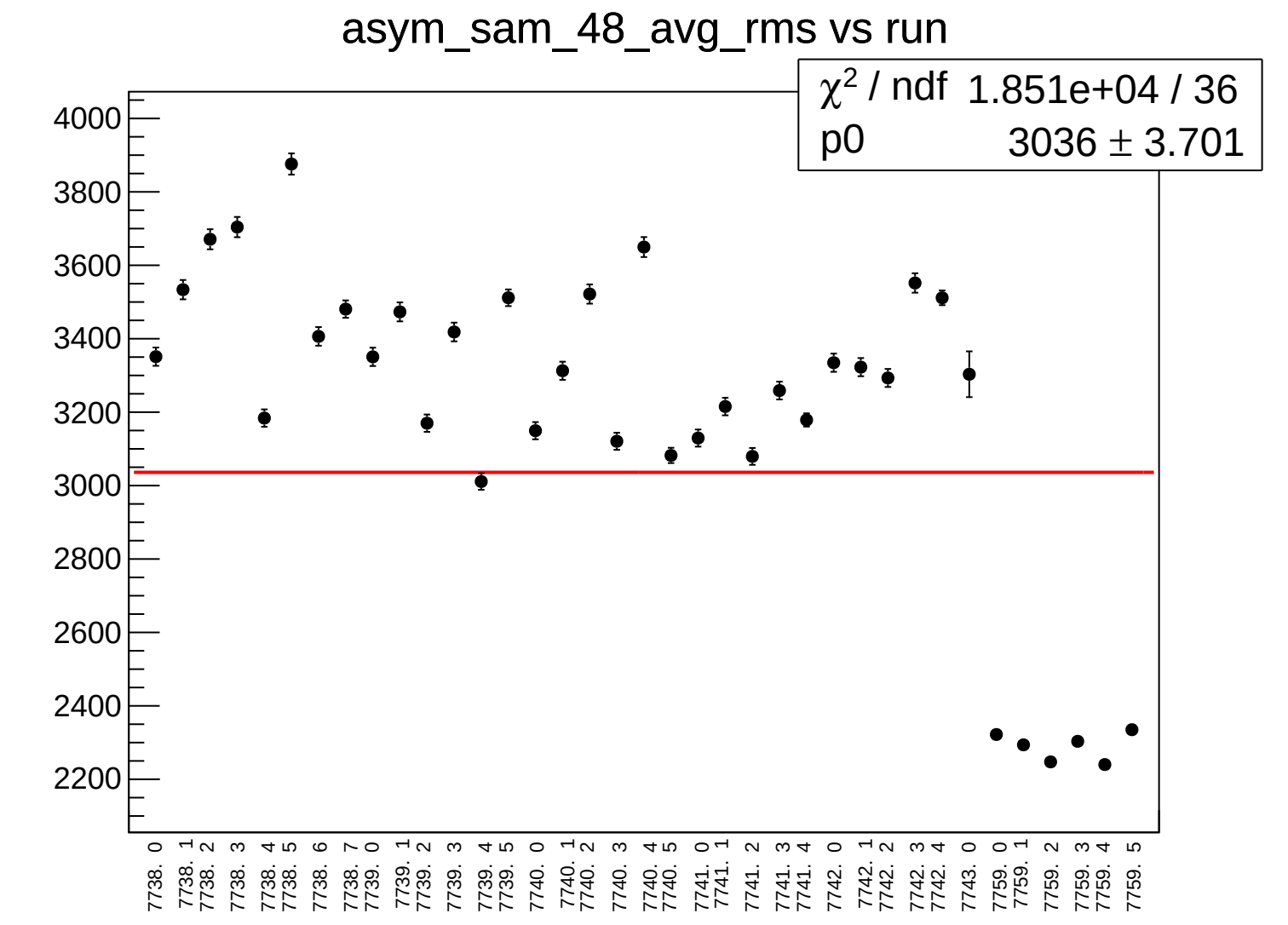

dit_asym_sam_48_avg_rms vs run
χ² / ndf 9116 / 36
p0 258.3 ± 0.3127
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

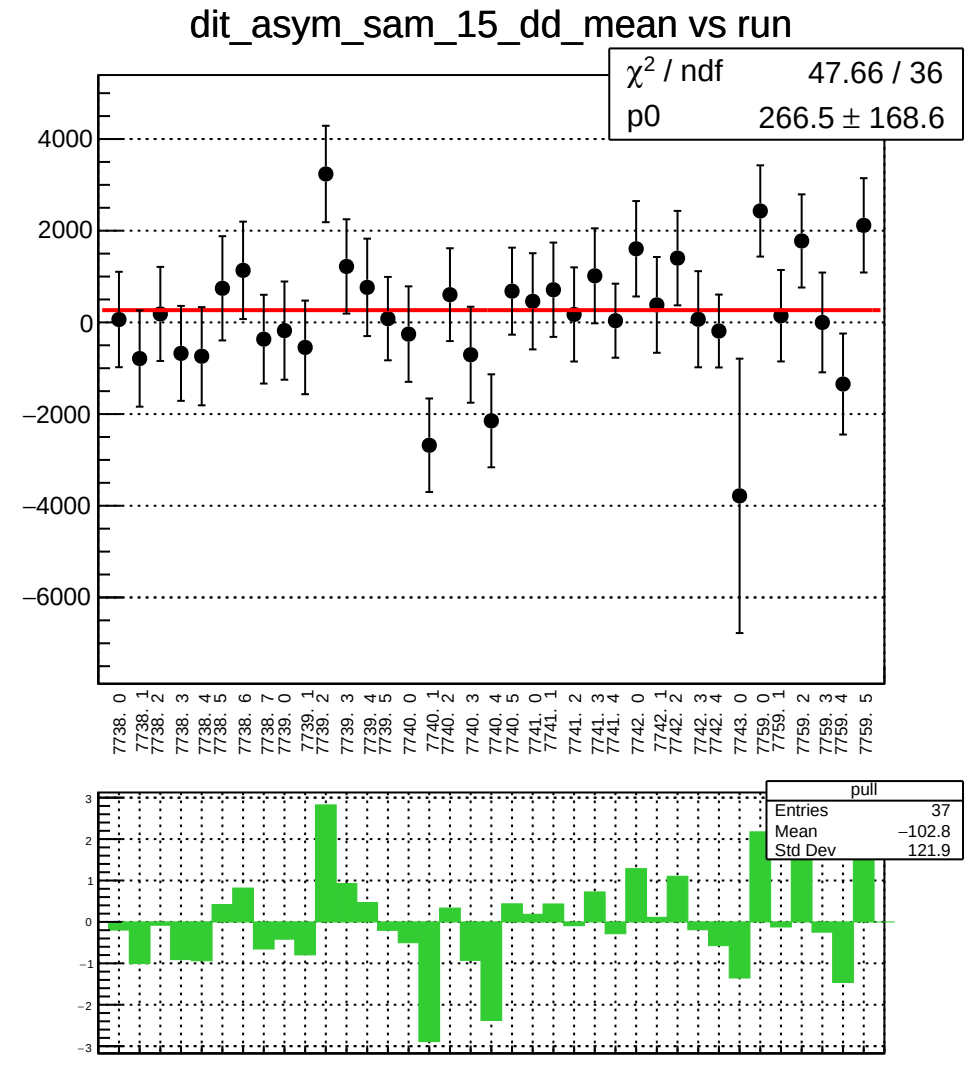

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 38.88 / 36
p0 −1326 ± 5383
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 474.7
Std Dev 458
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.005302
Std Dev 1.025
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

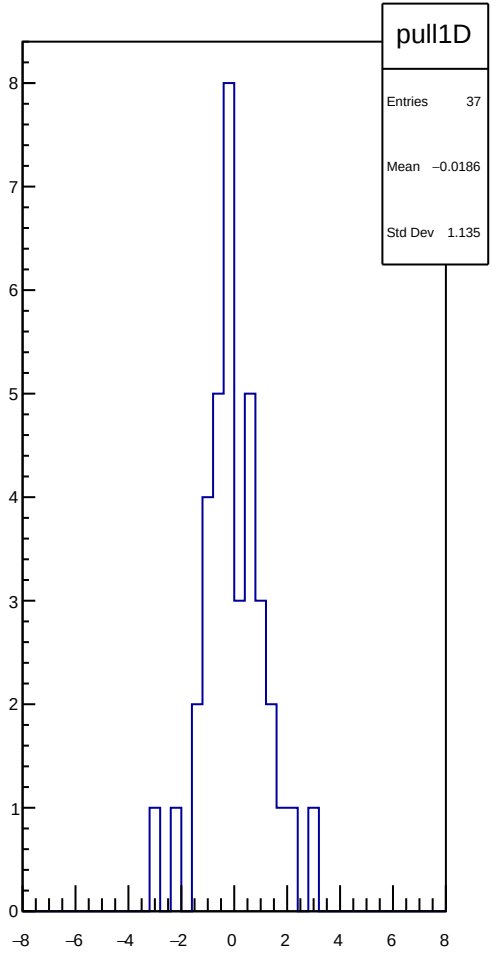

asym_sam_48_avg_correction_rms vs run
χ² / ndf 9912 / 36
p0 3142 ± 3.806
4000
3800
3600
3400
3200
3000
2800
2600
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

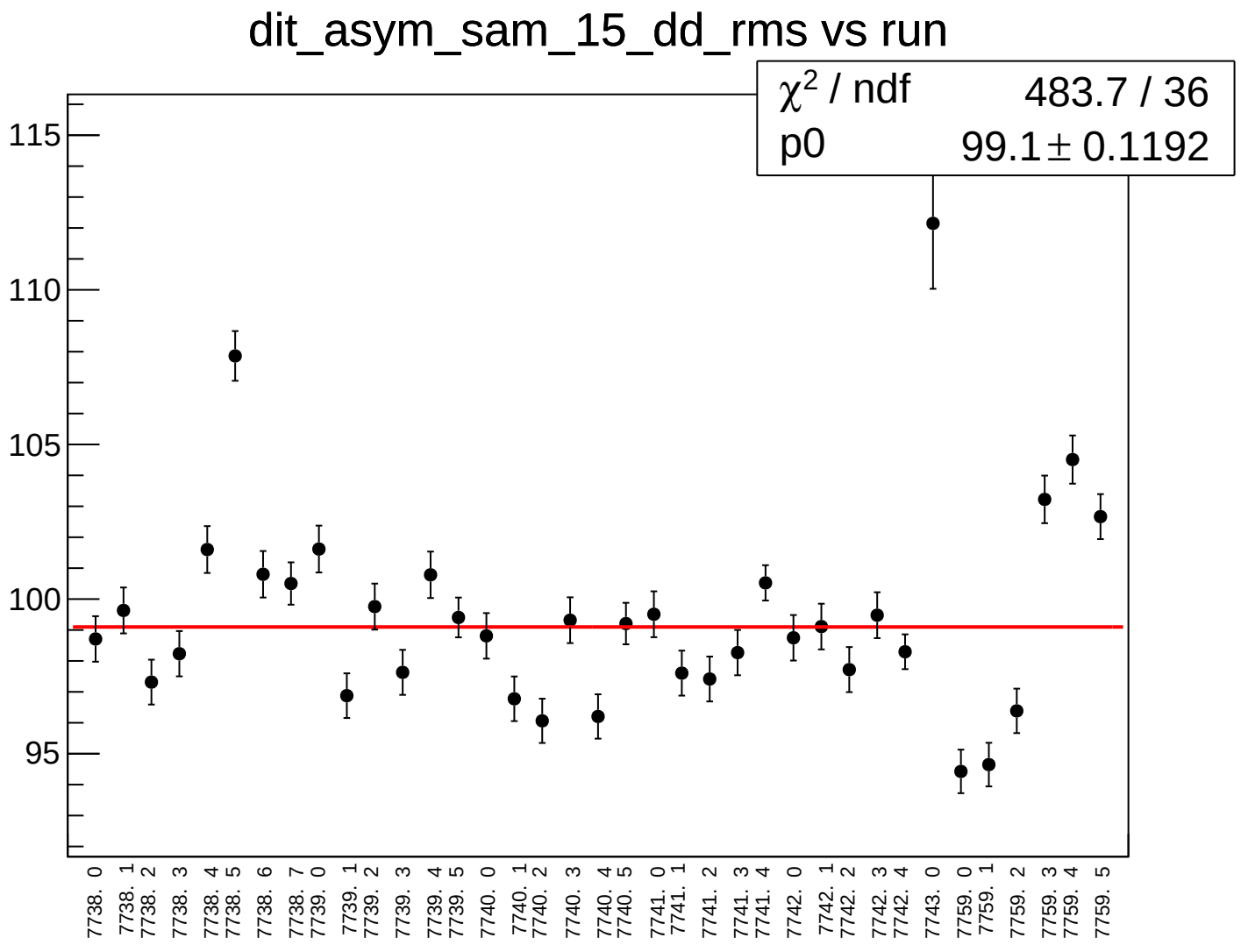

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 38.83 / 36
p0 1256 ± 5234
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 481.2
Std Dev 464.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

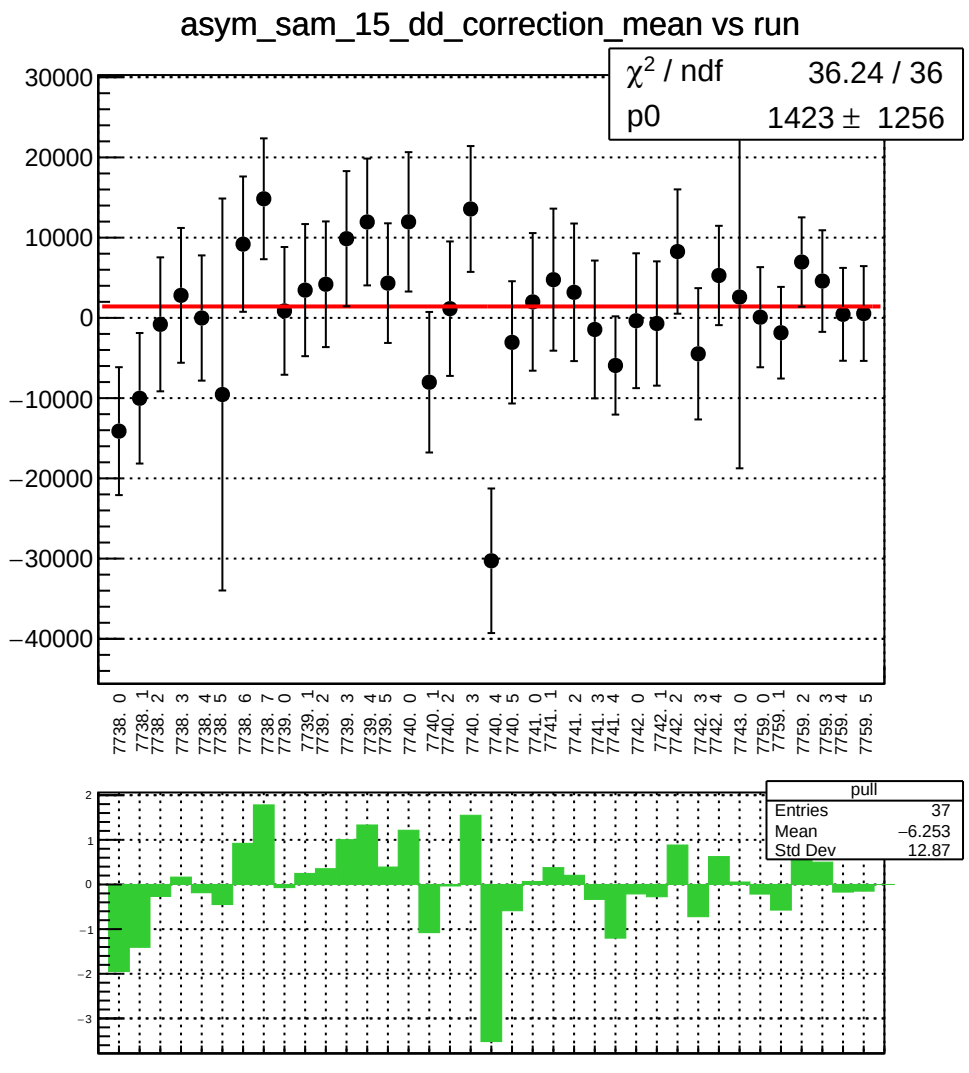

pull1D
Entries 37
Mean 0.005015
Std Dev 1.024
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

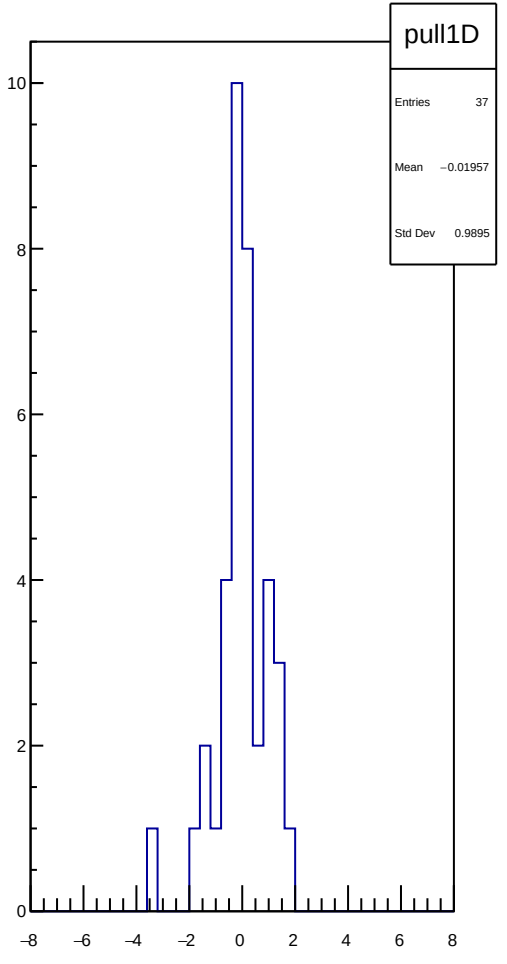

asym_sam_48_avg_rms vs run
χ² / ndf 1.851e+04 / 36
p0 3036 ± 3.701
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

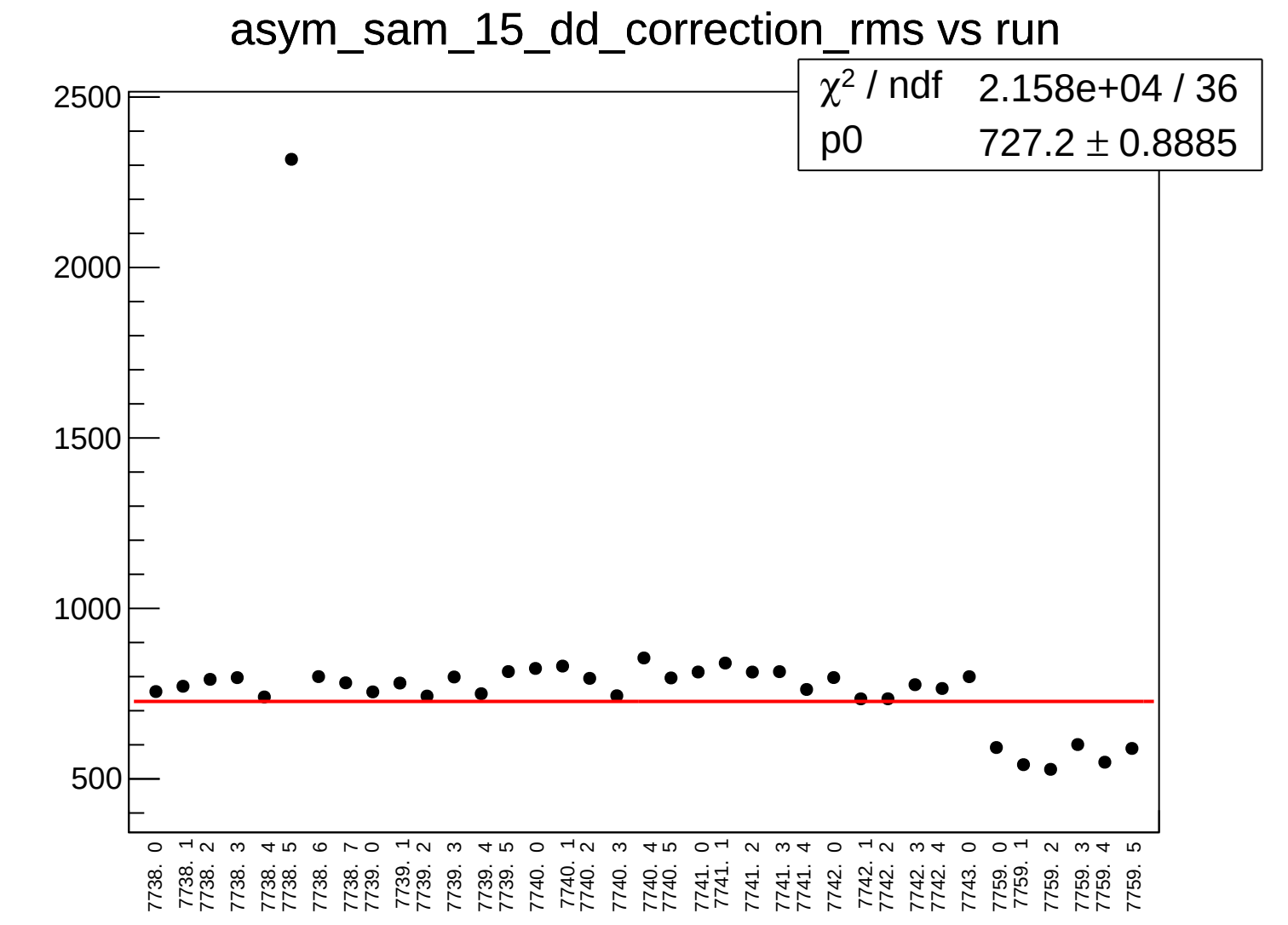

dit_asym_sam_15_dd_mean vs run
χ² / ndf 47.66 / 36
p0 266.5 ± 168.6
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −102.8
Std Dev 121.9
3
2
1
0
−1
−2
−3

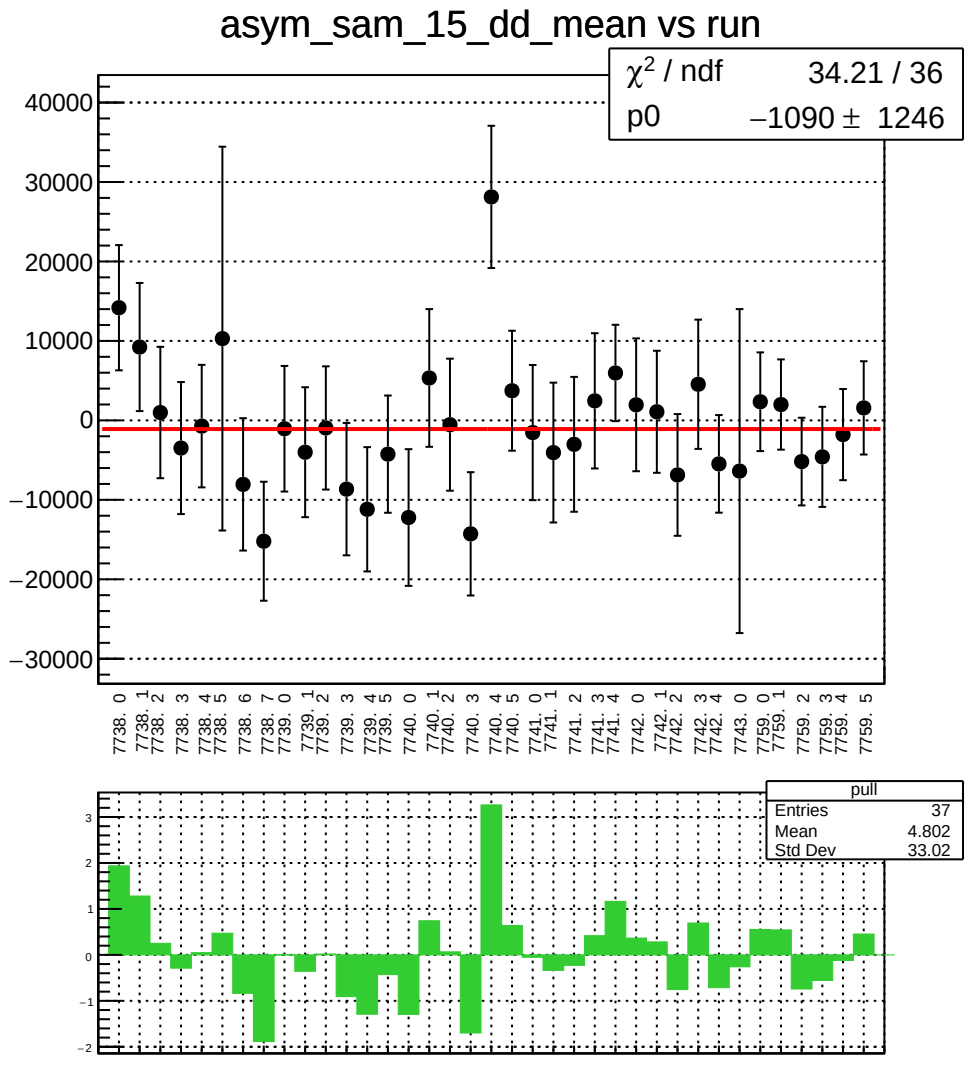

pull1D
Entries 37
Mean −0.0186
Std Dev 1.135
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

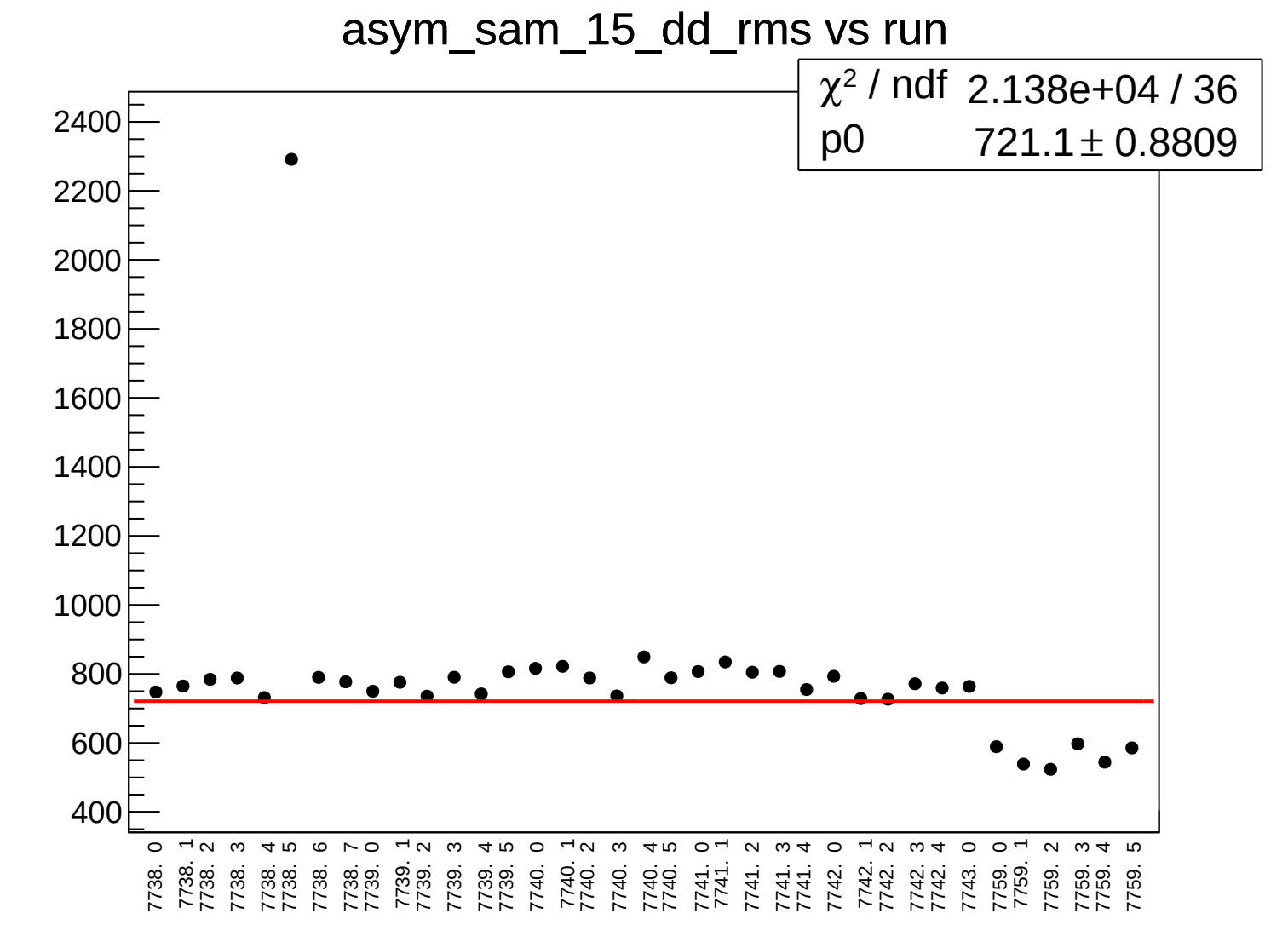

dit_asym_sam_15_dd_rms vs run
χ² / ndf 483.7 / 36
p0 99.1 ± 0.1192
115
110
105
100
95
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

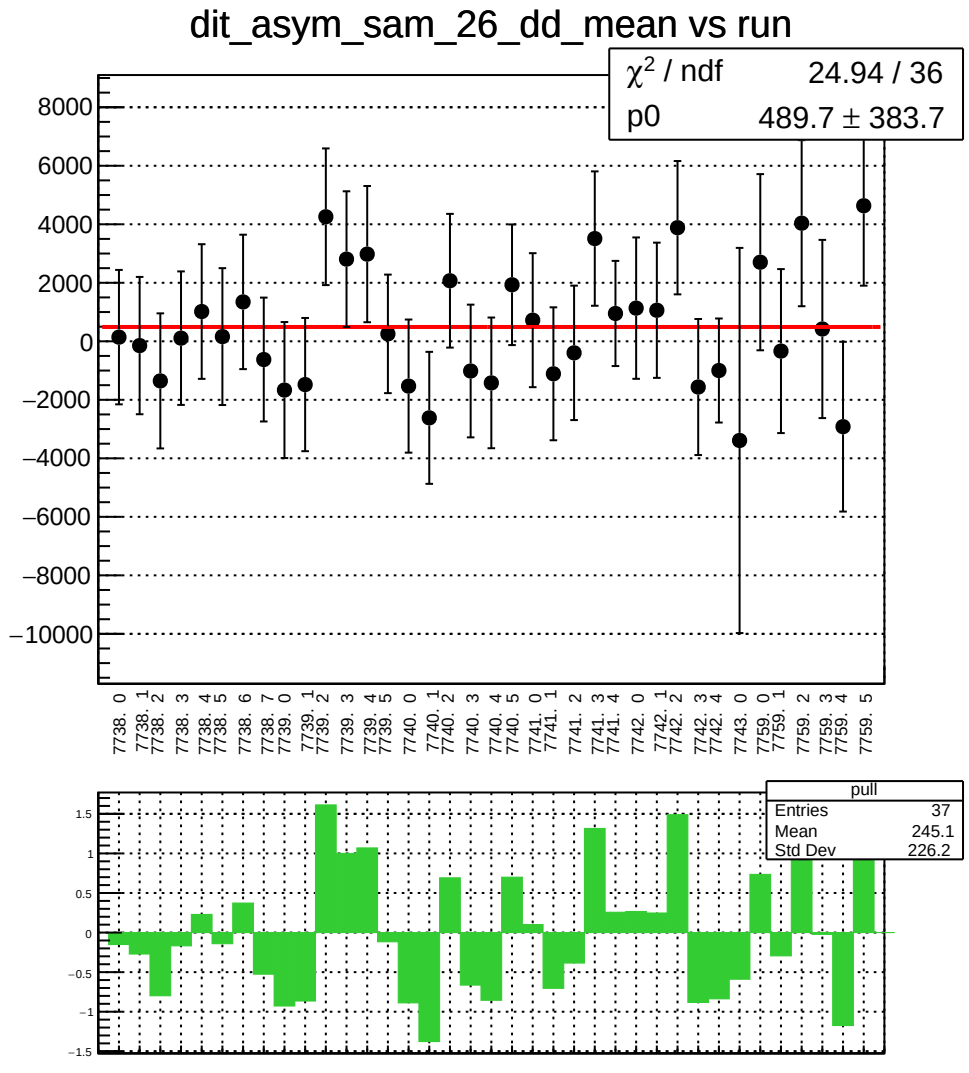

asym_sam_15_dd_correction_mean vs run
χ² / ndf 36.24 / 36
p0 1423 ± 1256
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.253
Std Dev 12.87
2
1
0
−1
−2
−3

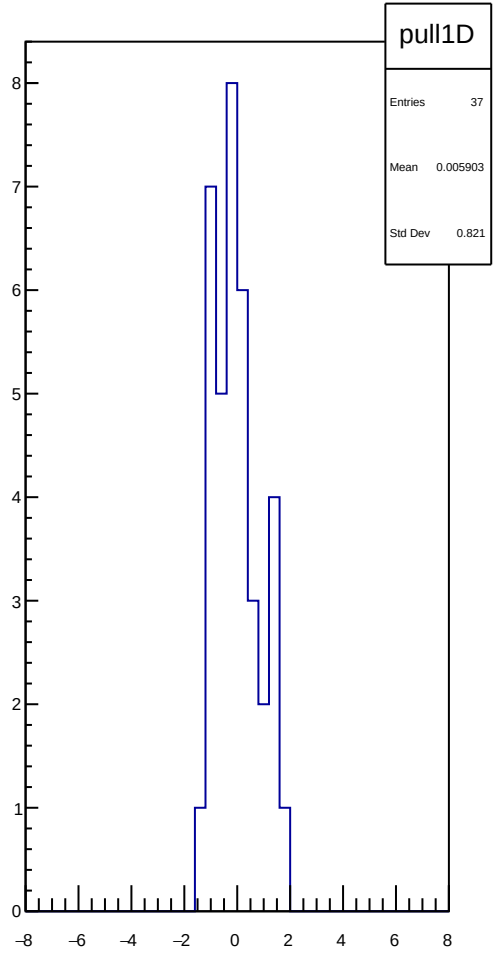

pull1D
Entries 37
Mean −0.01957
Std Dev 0.9895
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

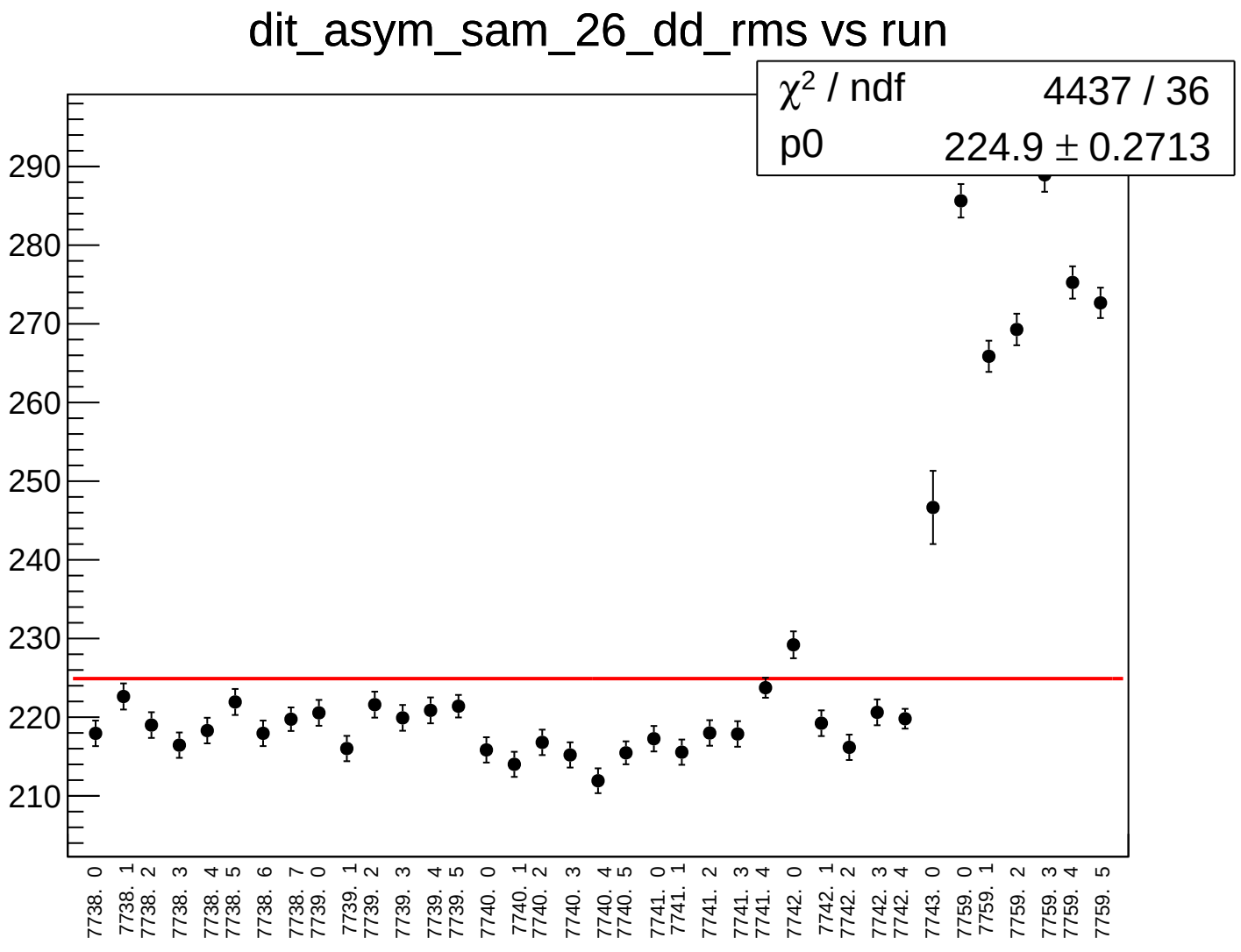

asym_sam_15_dd_correction_rms vs run
χ² / ndf 2.158e+04 / 36
p0 727.2 ± 0.8885
2500
2000
1500
1000
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

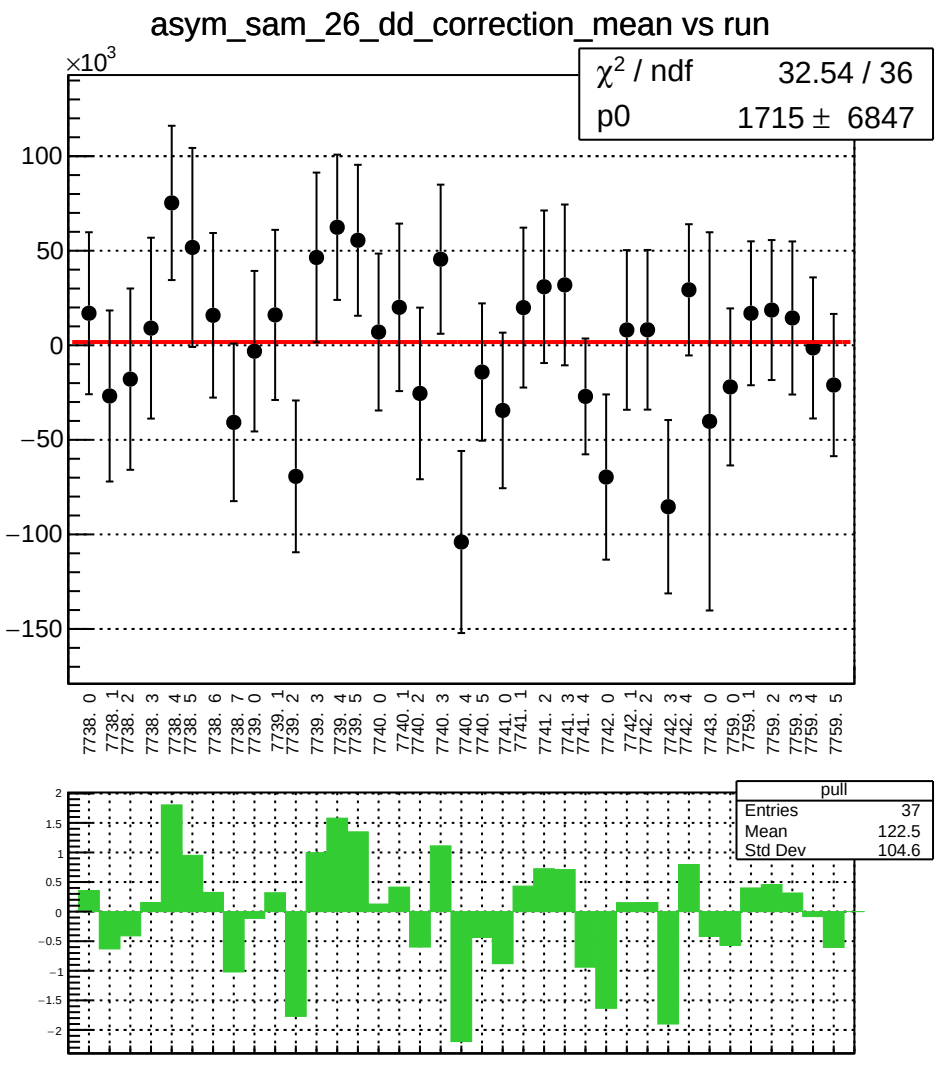

asym_sam_15_dd_mean vs run
χ² / ndf 34.21 / 36
p0 −1090 ± 1246
40000
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 4.802
Std Dev 33.02
3
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.01188
Std Dev 0.9615
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

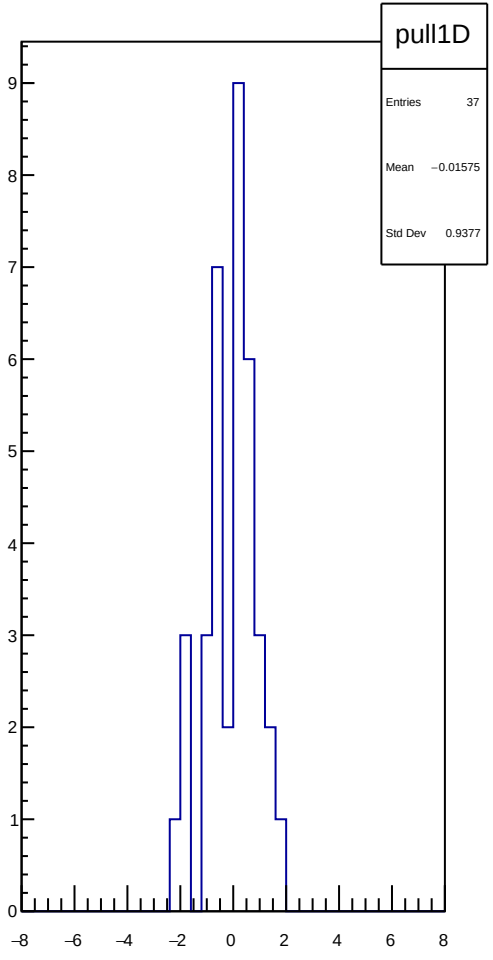

asym_sam_15_dd_rms vs run
χ² / ndf 2.138e+04 / 36
p0 721.1 ± 0.8809
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

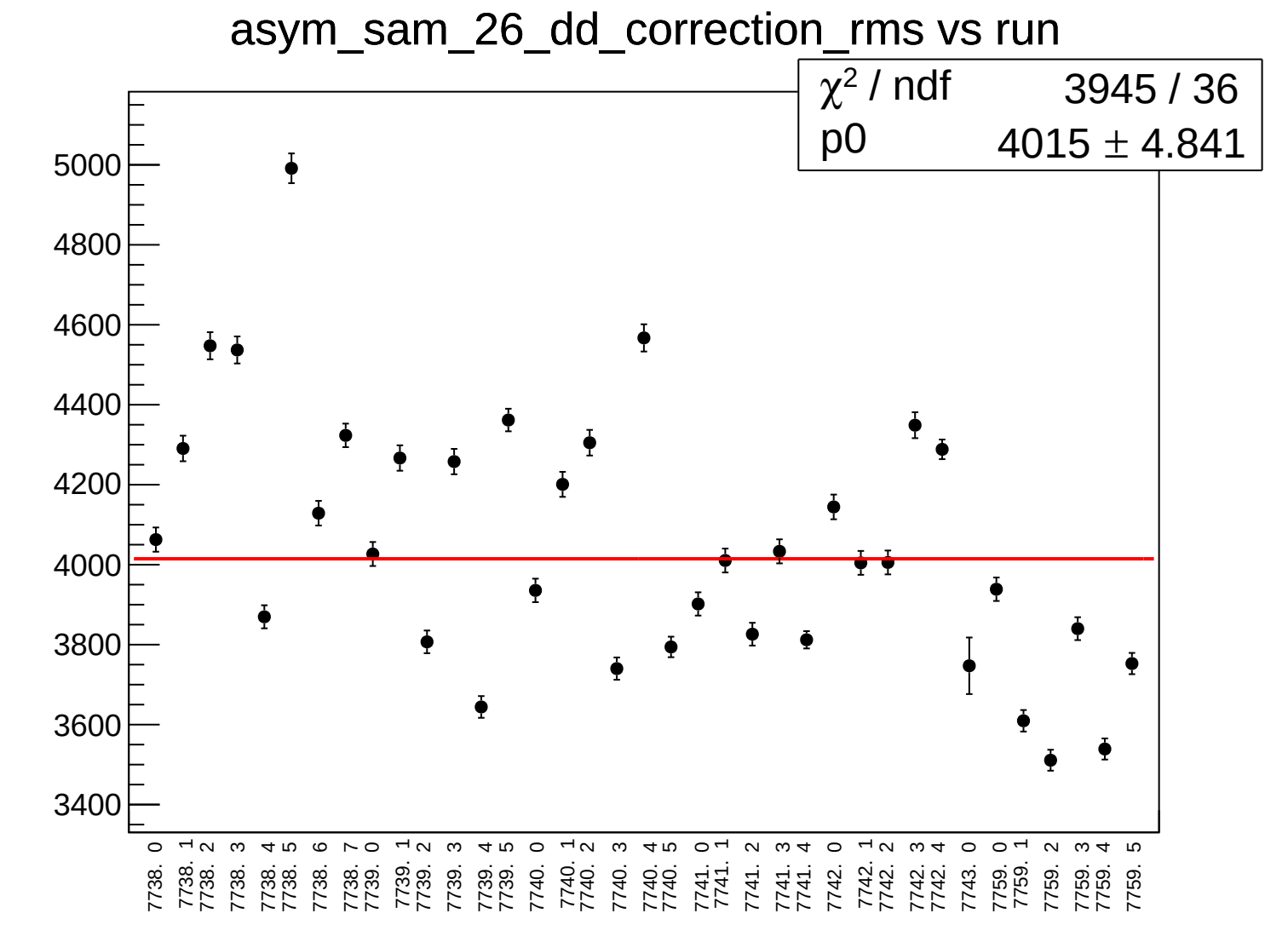

dit_asym_sam_26_dd_mean vs run
χ² / ndf 24.94 / 36
p0 489.7 ± 383.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 245.1
Std Dev 226.2
1.5
1
0.5
0
−0.5
−1
−1.5

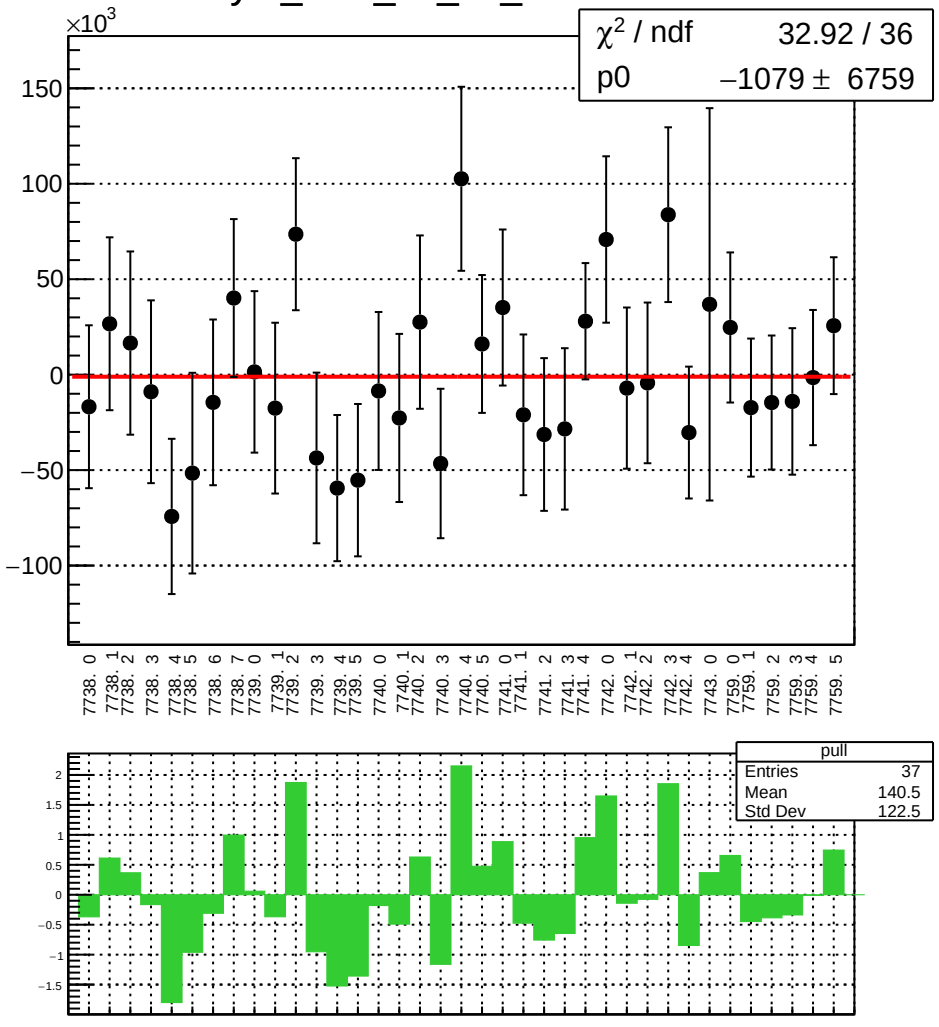

pull1D
Entries 37
Mean 0.005903
Std Dev 0.821
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

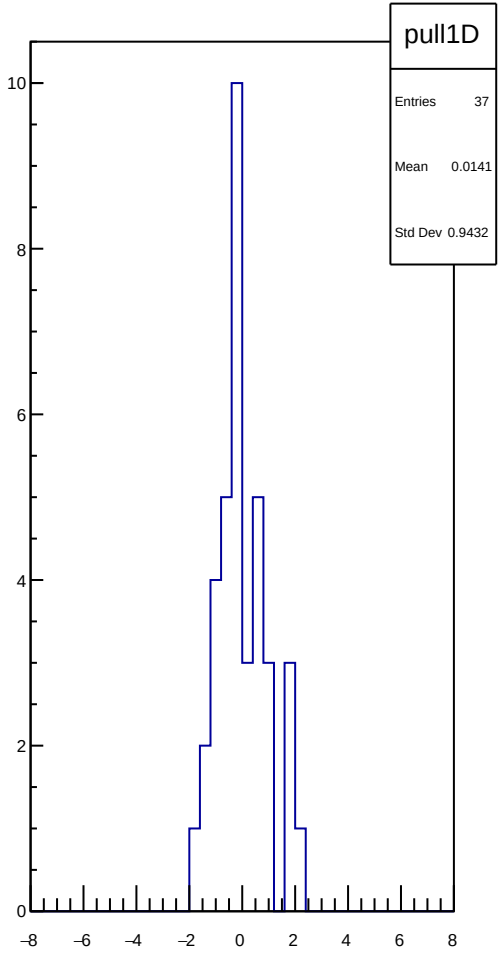

dit_asym_sam_26_dd_rms vs run
χ² / ndf 4437 / 36
p0 224.9 ± 0.2713
290
280
270
260
250
240
230
220
210
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

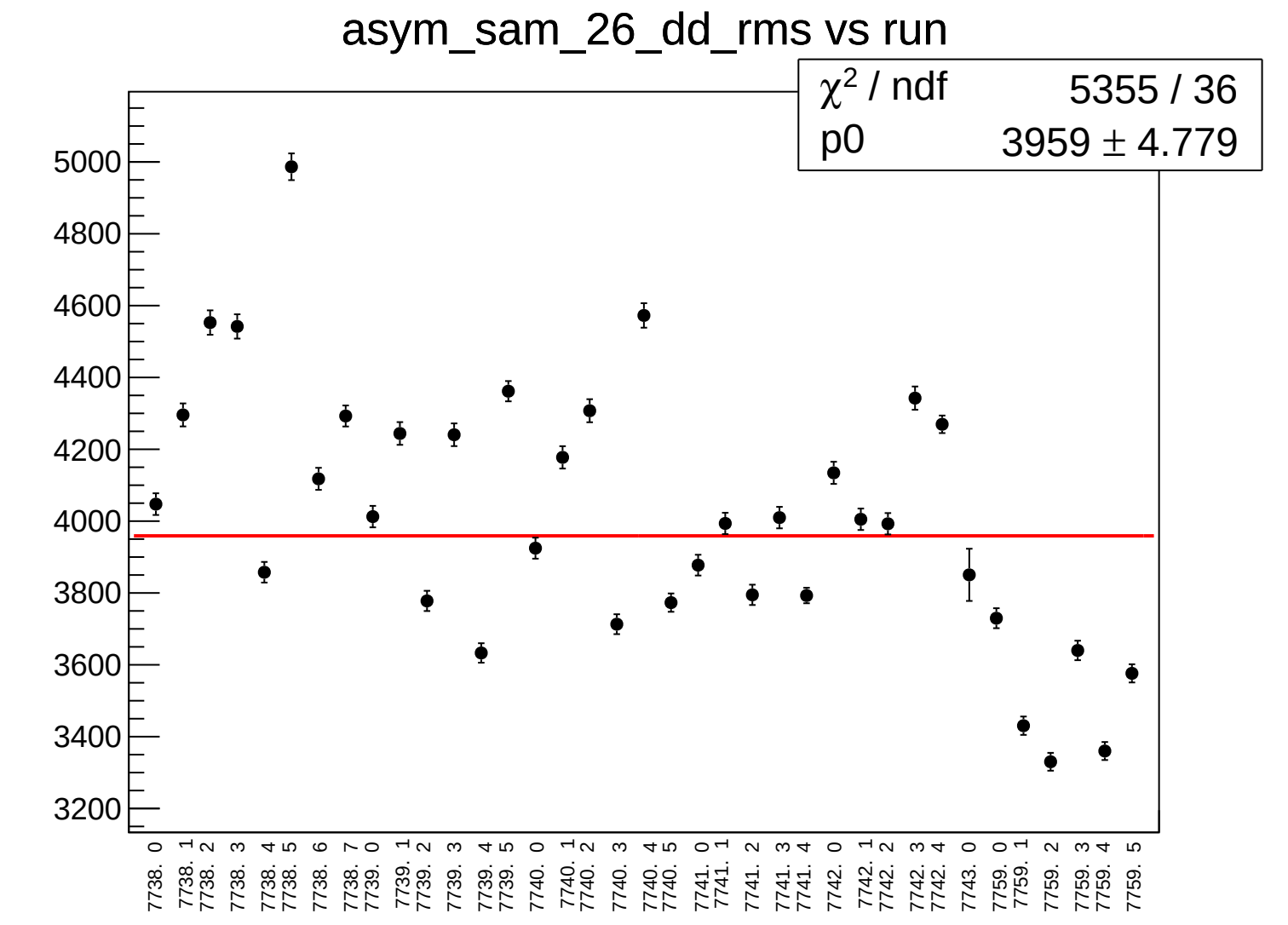

asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 32.54 / 36
p0 1715 ± 6847
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 122.5
Std Dev 104.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

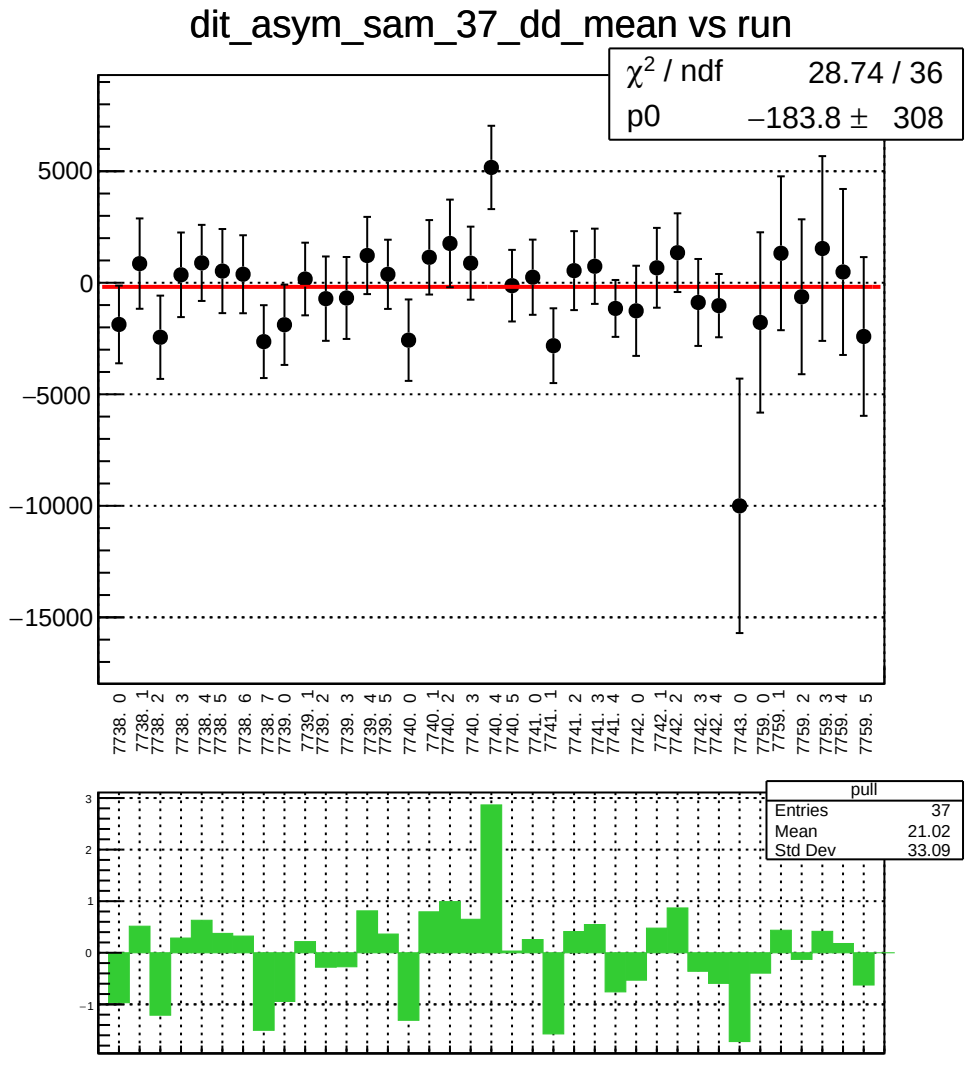

pull1D
Entries 37
Mean −0.01575
Std Dev 0.9377
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

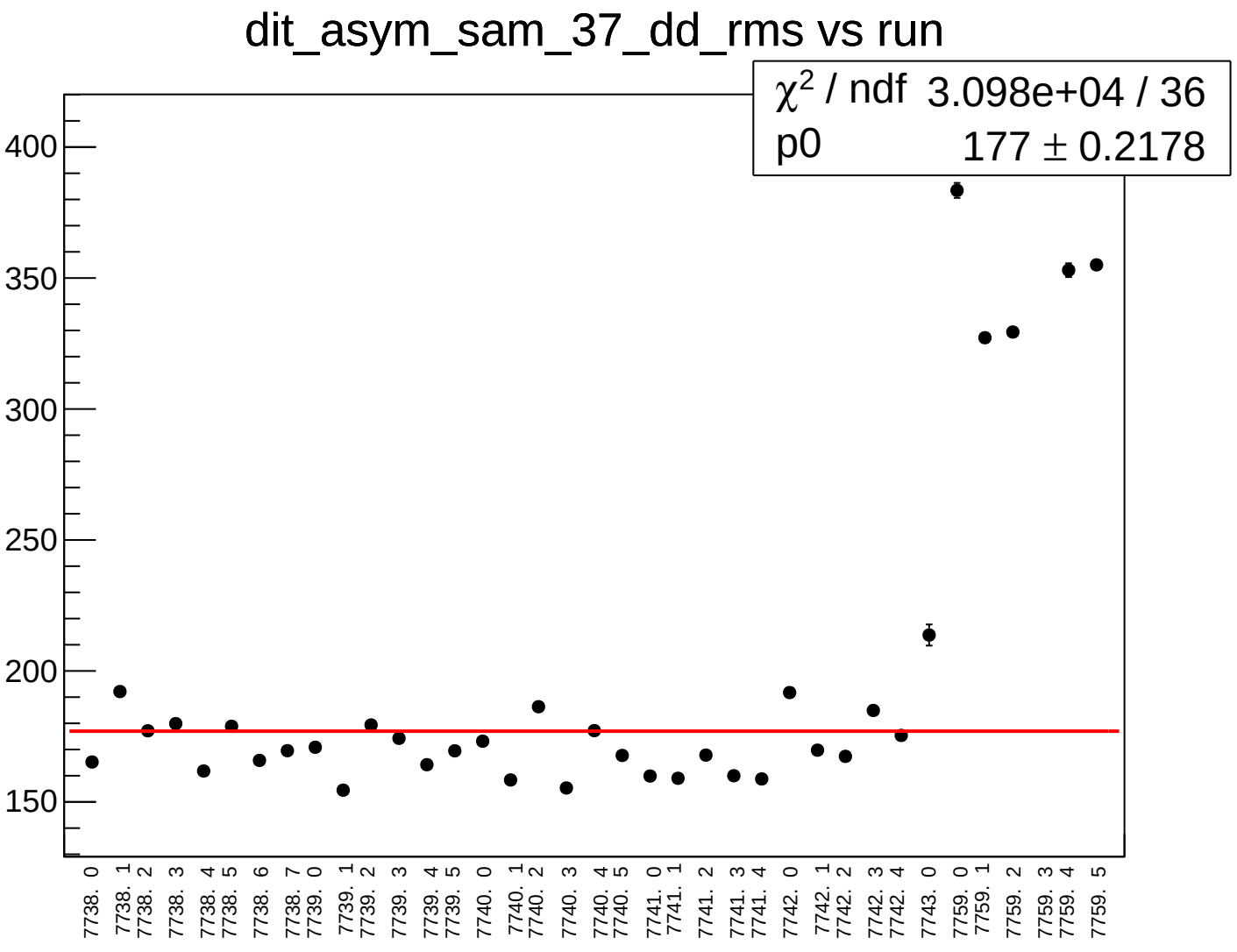

asym_sam_26_dd_correction_rms vs run
χ² / ndf 3945 / 36
p0 4015 ± 4.841
5000
4800
4600
4400
4200
4000
3800
3600
3400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

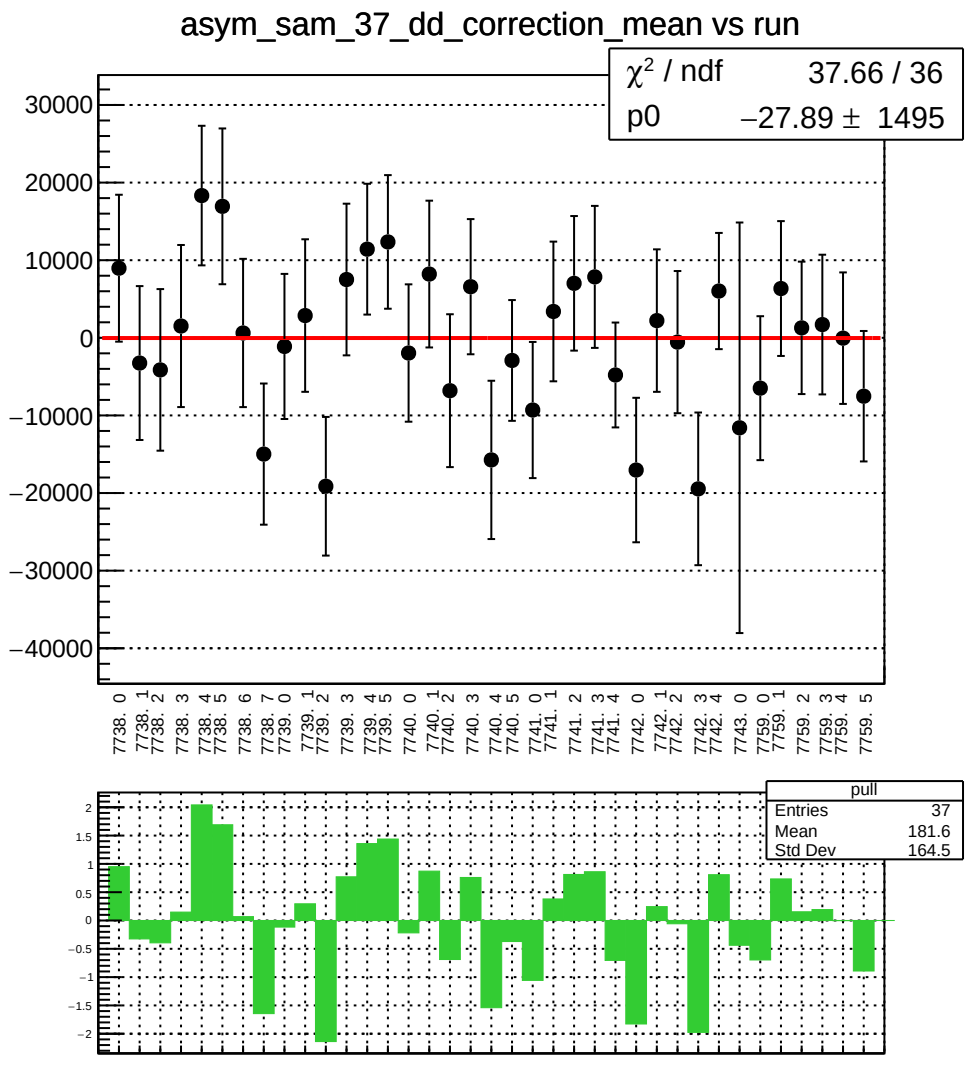

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 32.92 / 36
p0 −1079 ± 6759
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 140.5
Std Dev 122.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

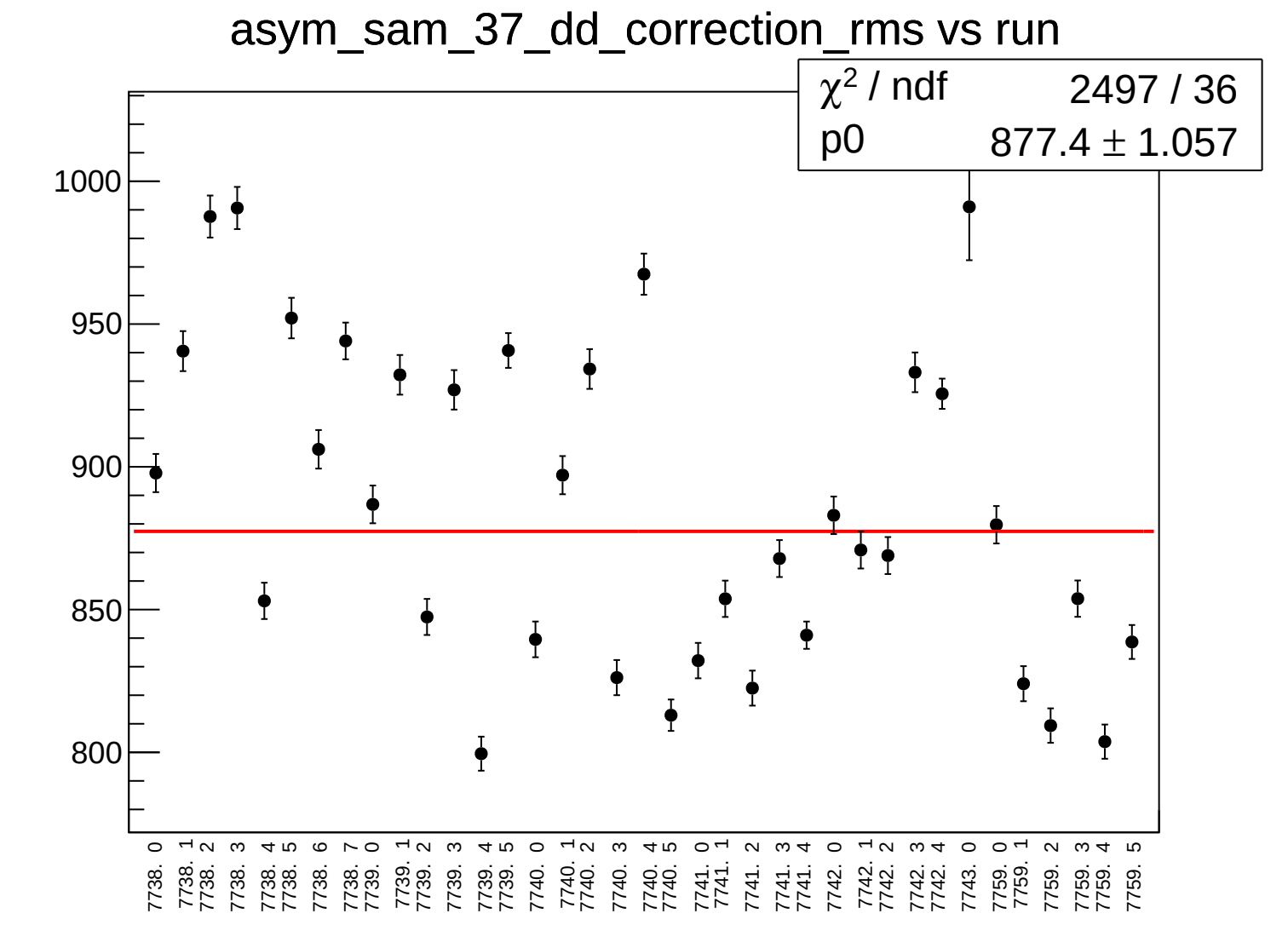

pull1D
Entries 37
Mean 0.0141
Std Dev 0.9432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

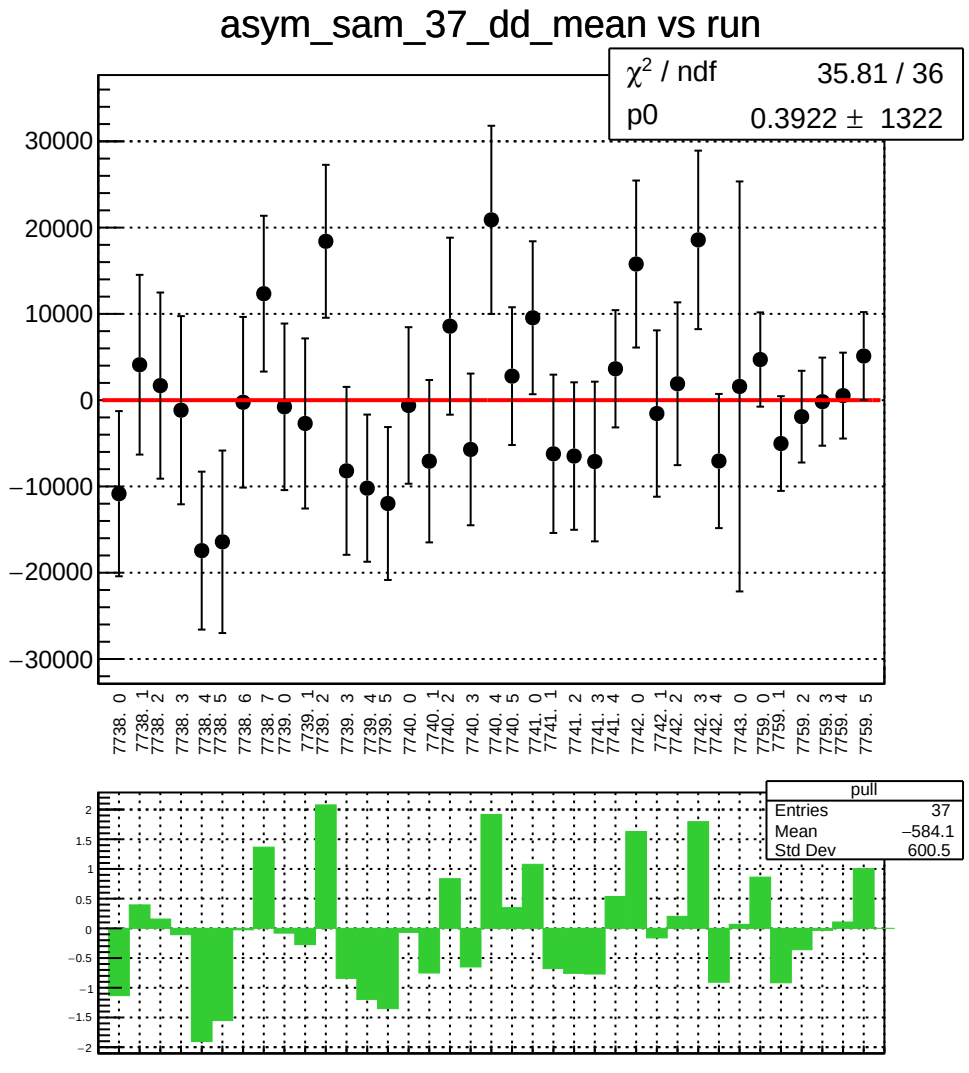

asym_sam_26_dd_rms vs run
χ² / ndf 5355 / 36
p0 3959 ± 4.779
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

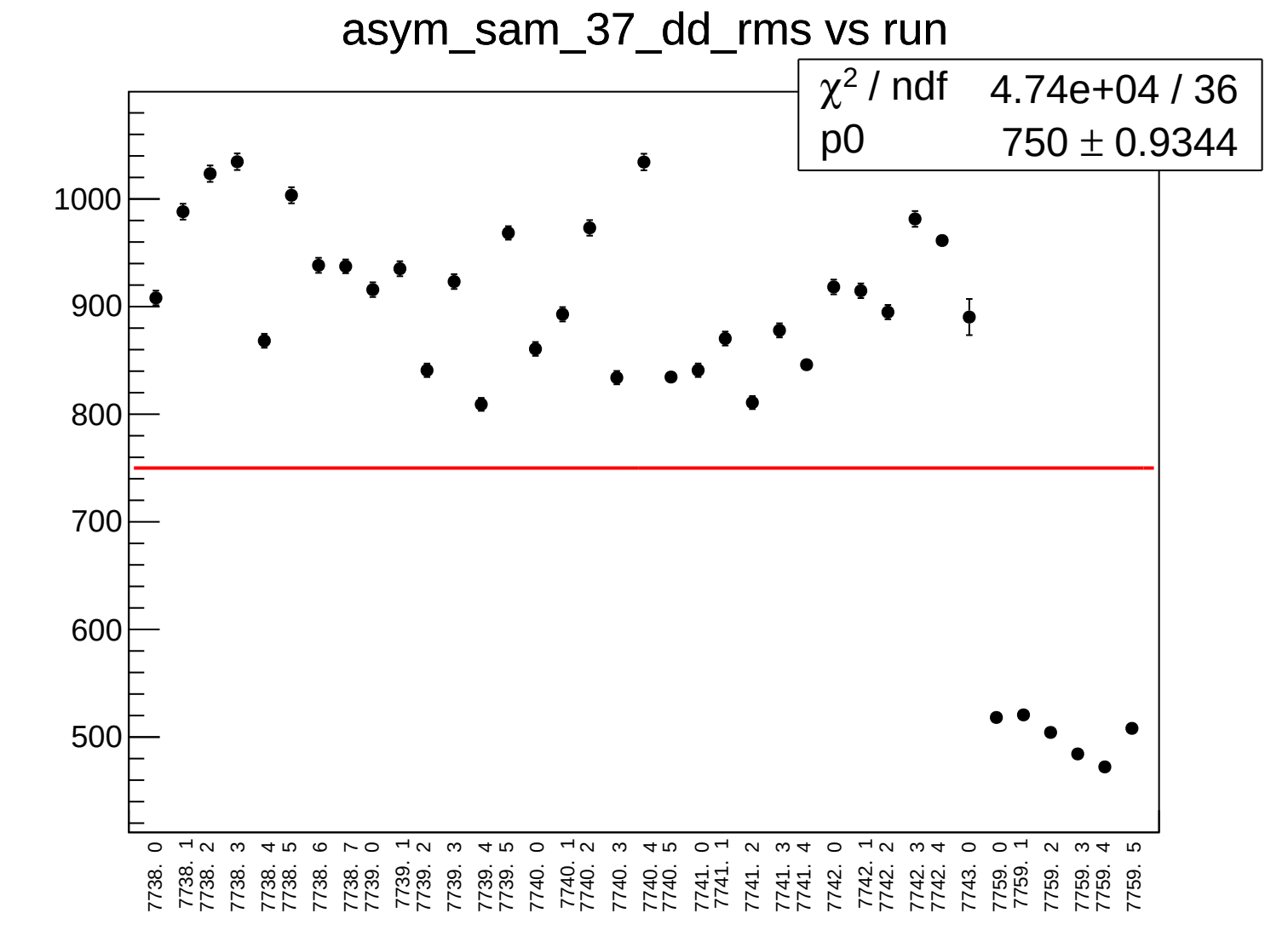

dit_asym_sam_37_dd_mean vs run
χ² / ndf 28.74 / 36
p0 −183.8 ± 308
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 21.02
Std Dev 33.09
3
2
1
0
−1
pull1D
Entries 37
Mean −0.01945
Std Dev 0.8811
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

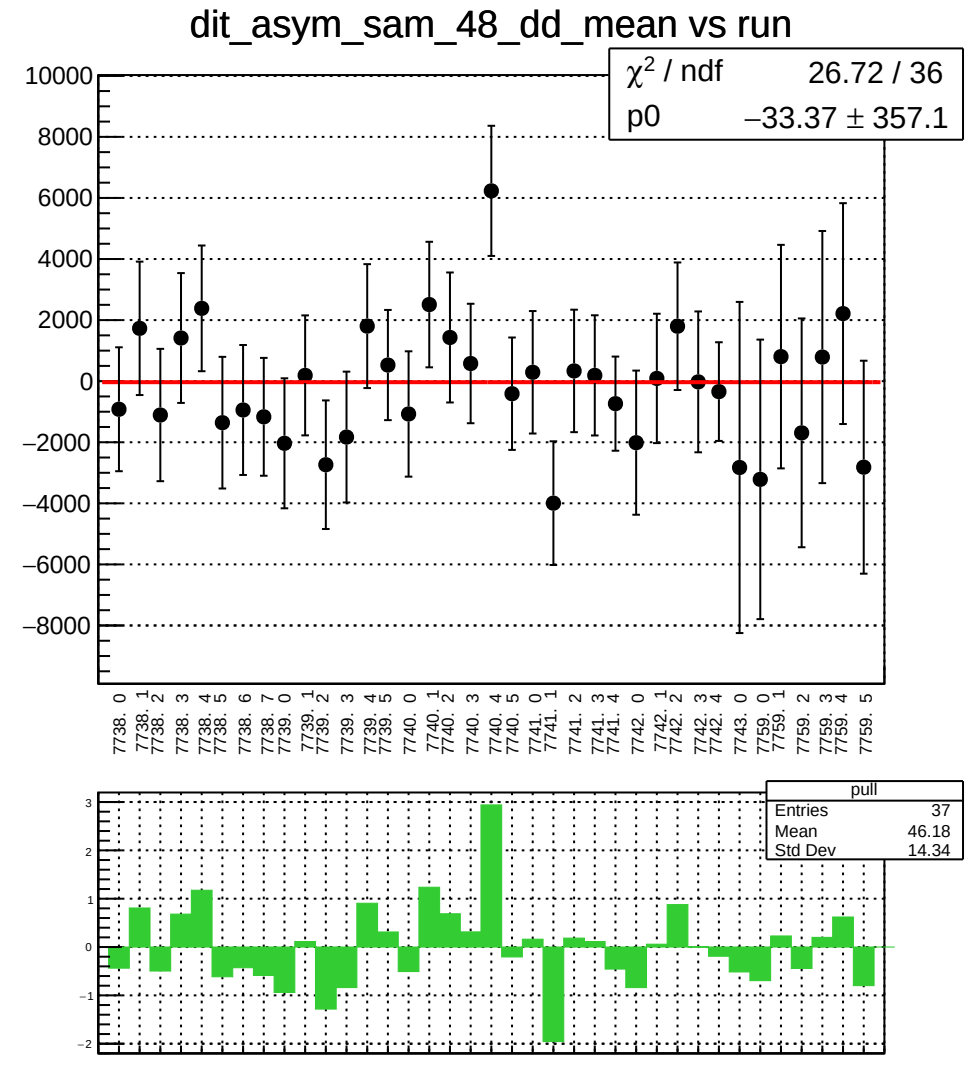

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.098e+04 / 36
p0 177 ± 0.2178
400
350
300
250
200
150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

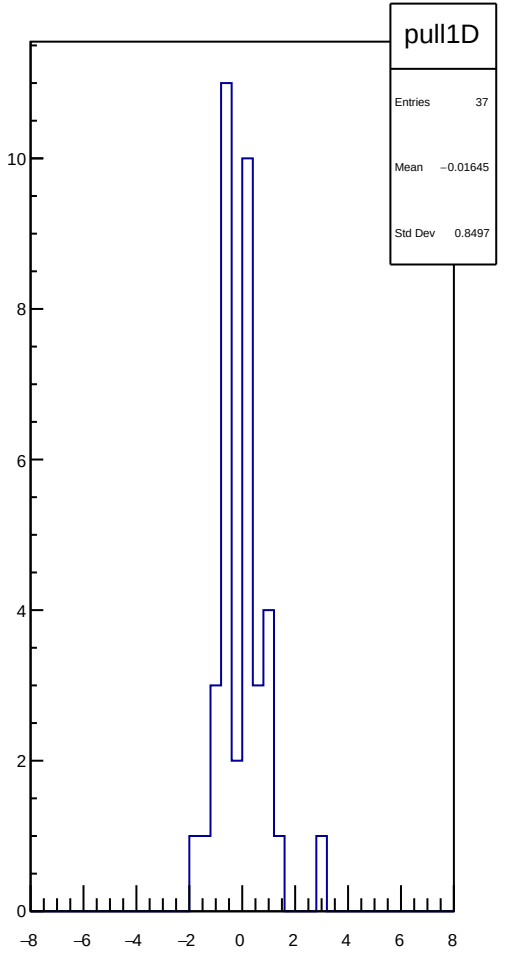

asym_sam_37_dd_correction_mean vs run
χ² / ndf 37.66 / 36
p0 −27.89 ± 1495
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.6
Std Dev 164.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01359
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

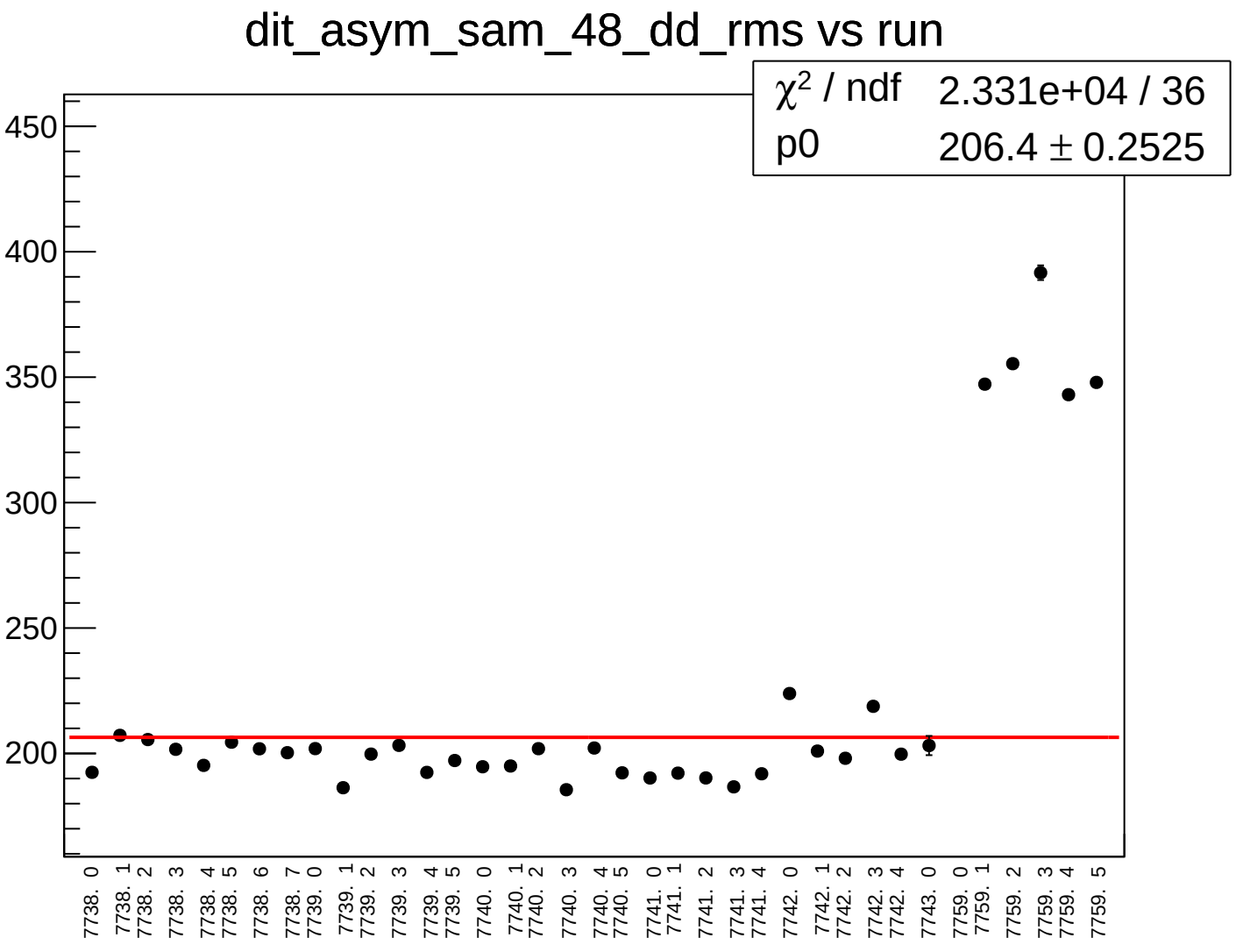

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2497 / 36
p0 877.4 ± 1.057
1000
950
900
850
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

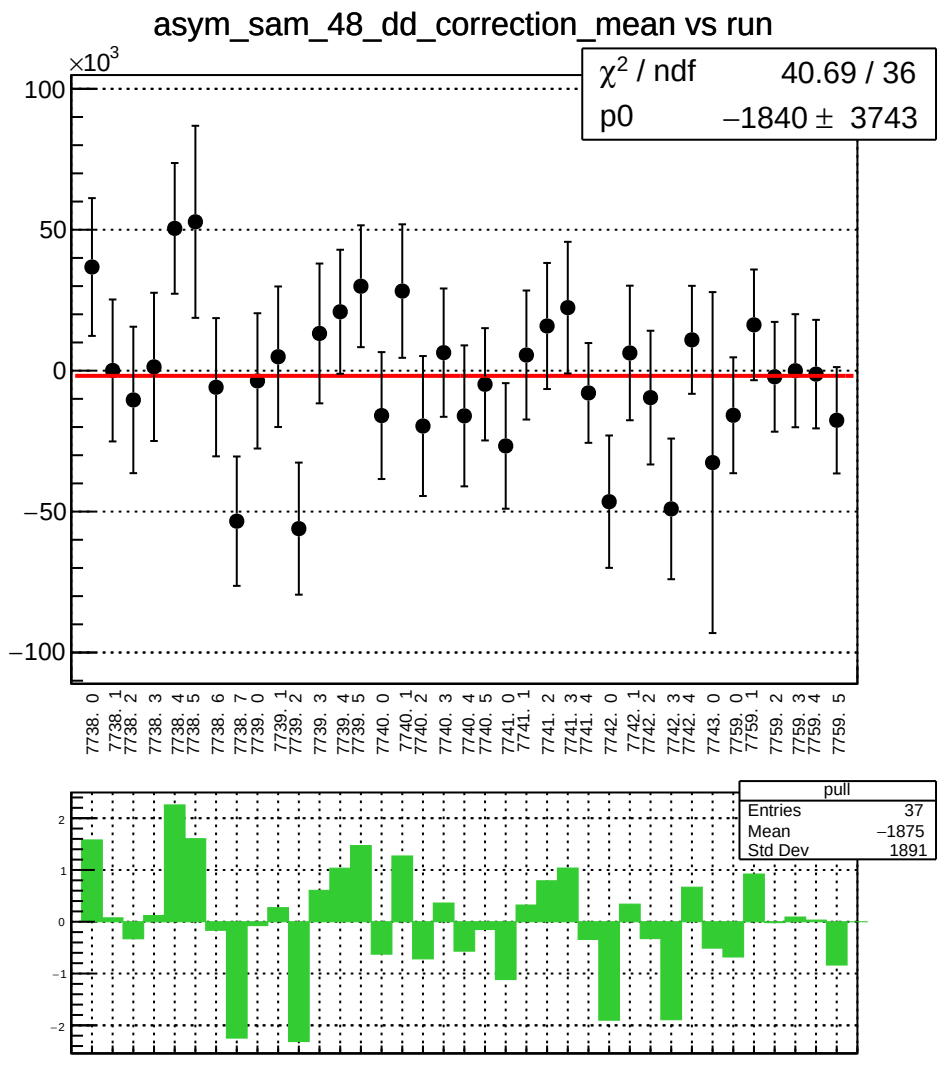

asym_sam_37_dd_mean vs run
χ² / ndf 35.81 / 36
p0 0.3922 ± 1322
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −584.1
Std Dev 600.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.00371
Std Dev 0.9838
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

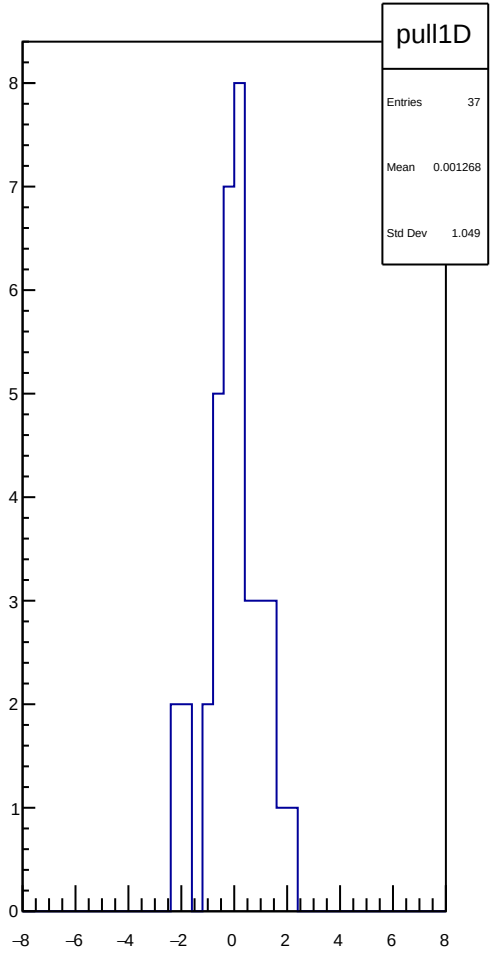

asym_sam_37_dd_rms vs run
χ² / ndf 4.74e+04 / 36
p0 750 ± 0.9344
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

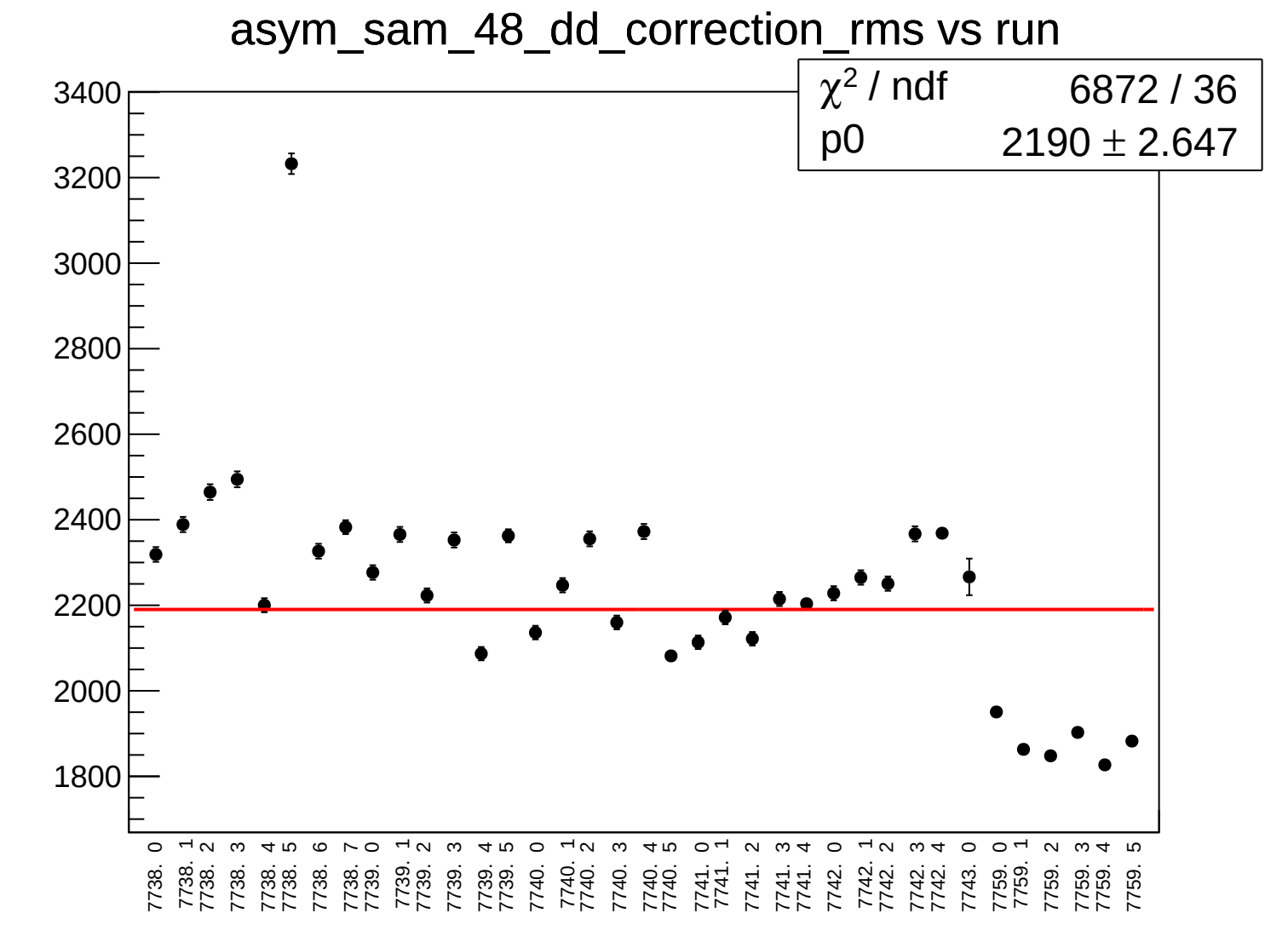

dit_asym_sam_48_dd_mean vs run
χ² / ndf 26.72 / 36
p0 −33.37 ± 357.1
pull
Entries 37
Mean 46.18
Std Dev 14.34

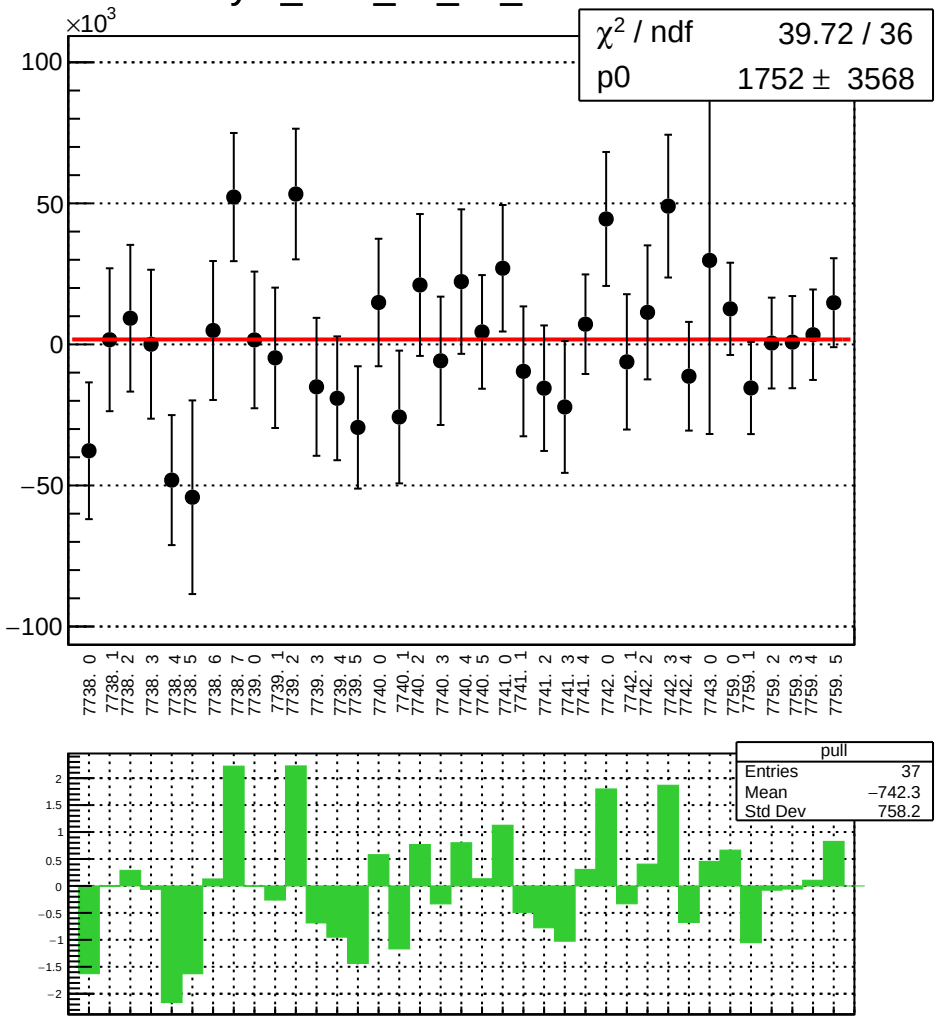

pull1D
Entries 37
Mean −0.01645
Std Dev 0.8497

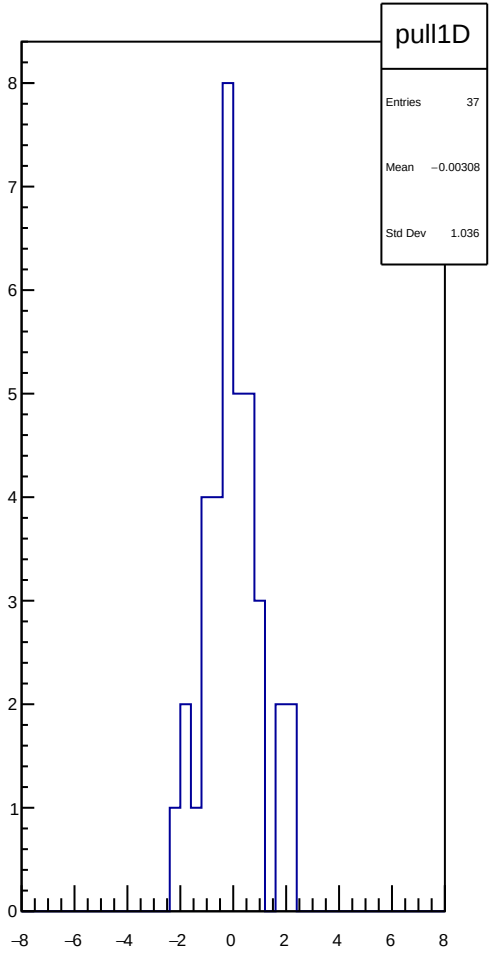

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2.331e+04 / 36
p0 206.4 ± 0.2525
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

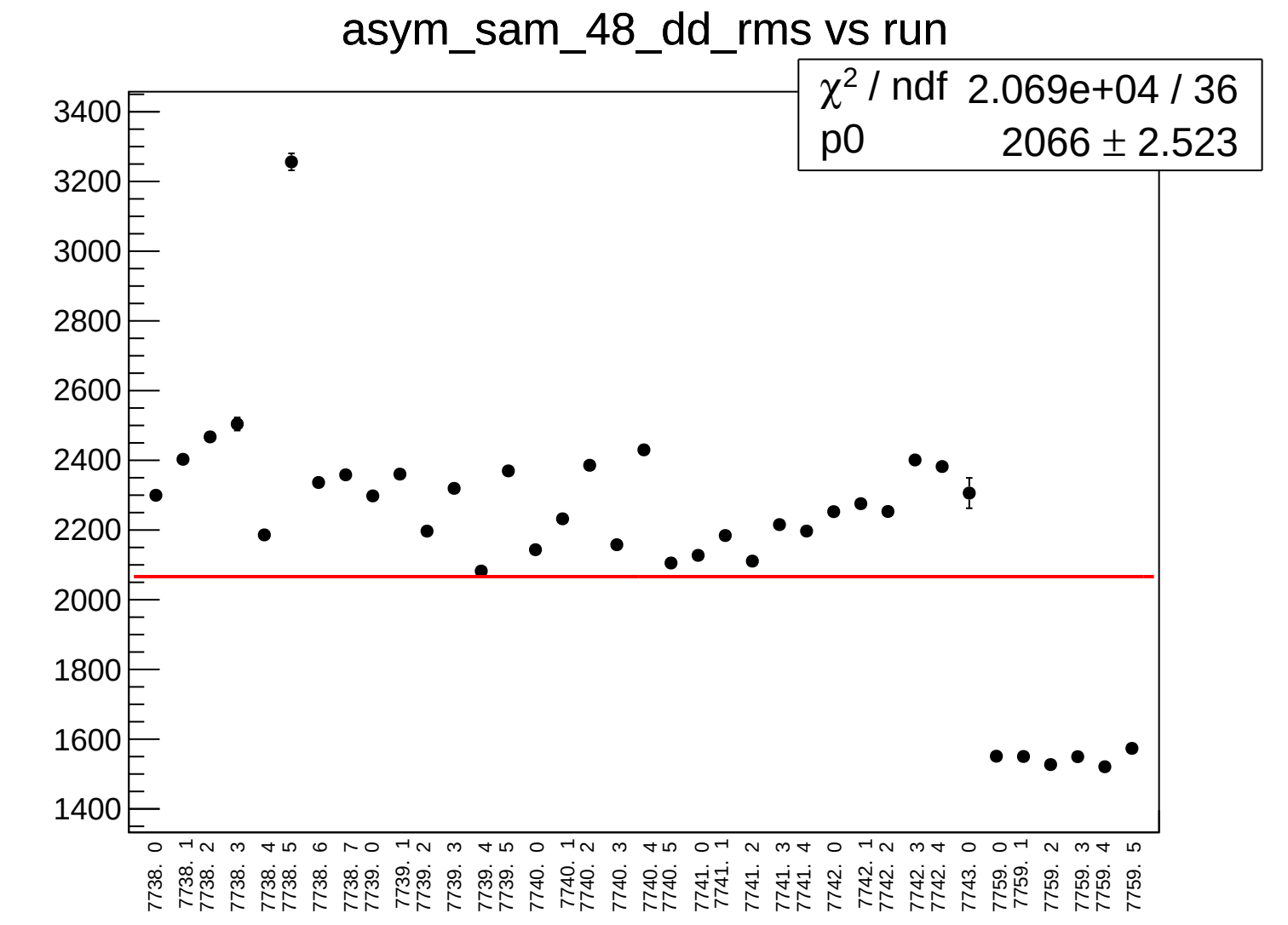

asym_sam_48_dd_correction_mean vs run
×10^3
χ² / ndf 40.69 / 36
p0 −1840 ± 3743
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1875
Std Dev 1891
2
1
0
−1
−2

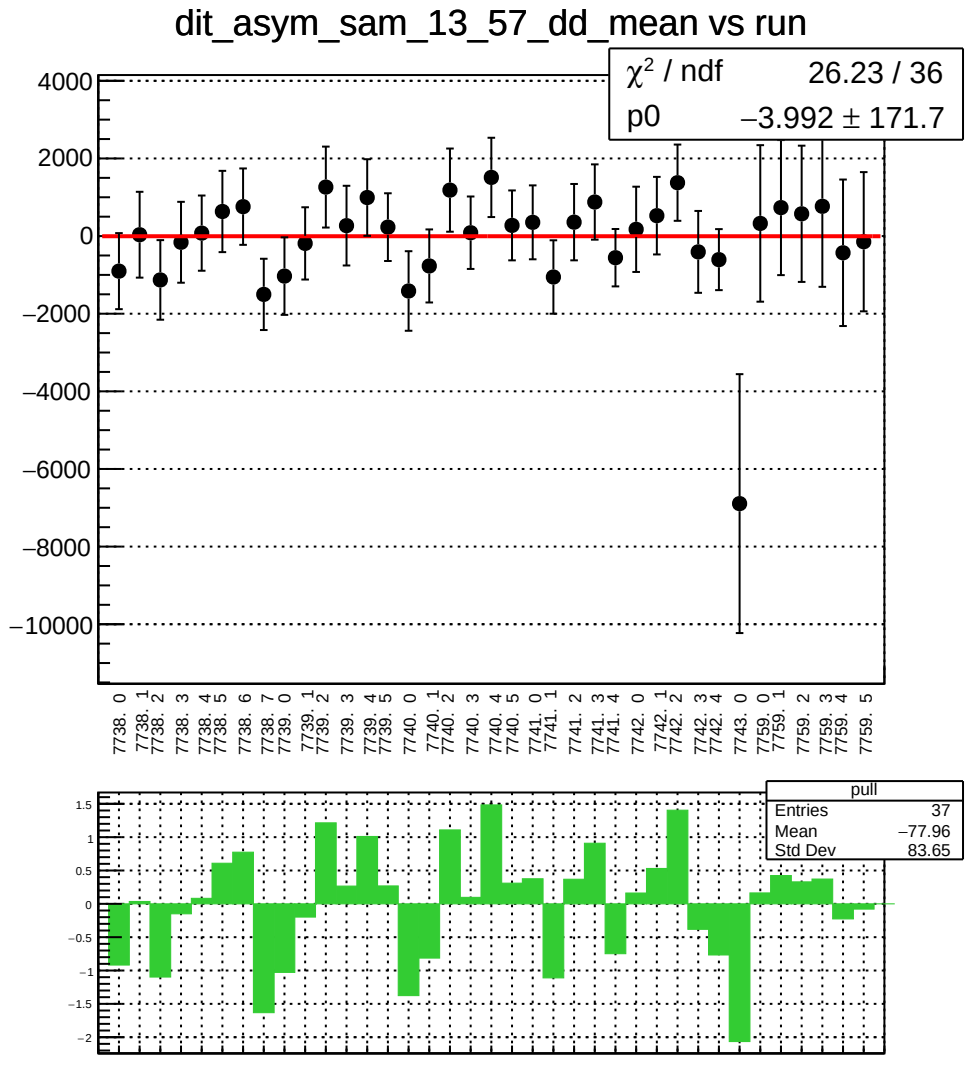

pull1D
Entries 37
Mean 0.001268
Std Dev 1.049
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

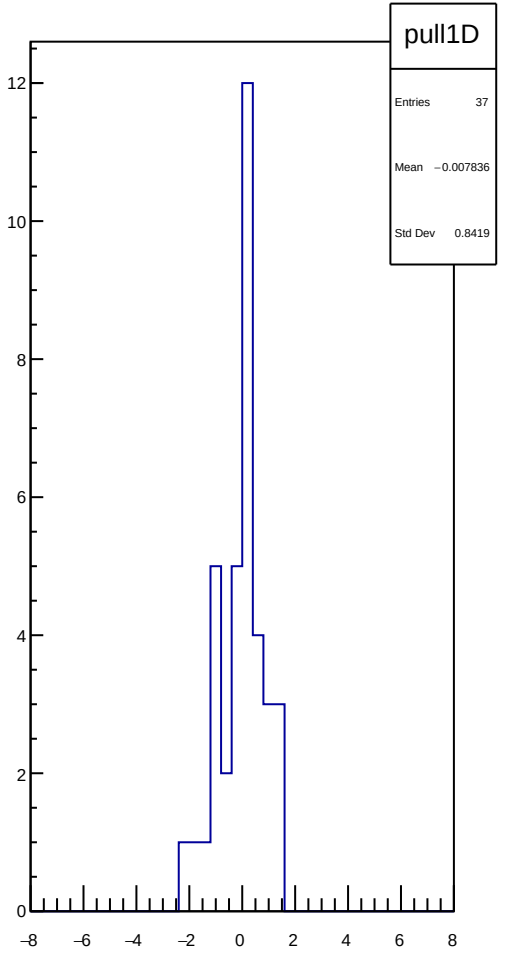

asym_sam_48_dd_correction_rms vs run
χ² / ndf 6872 / 36
p0 2190 ± 2.647
3400
3200
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

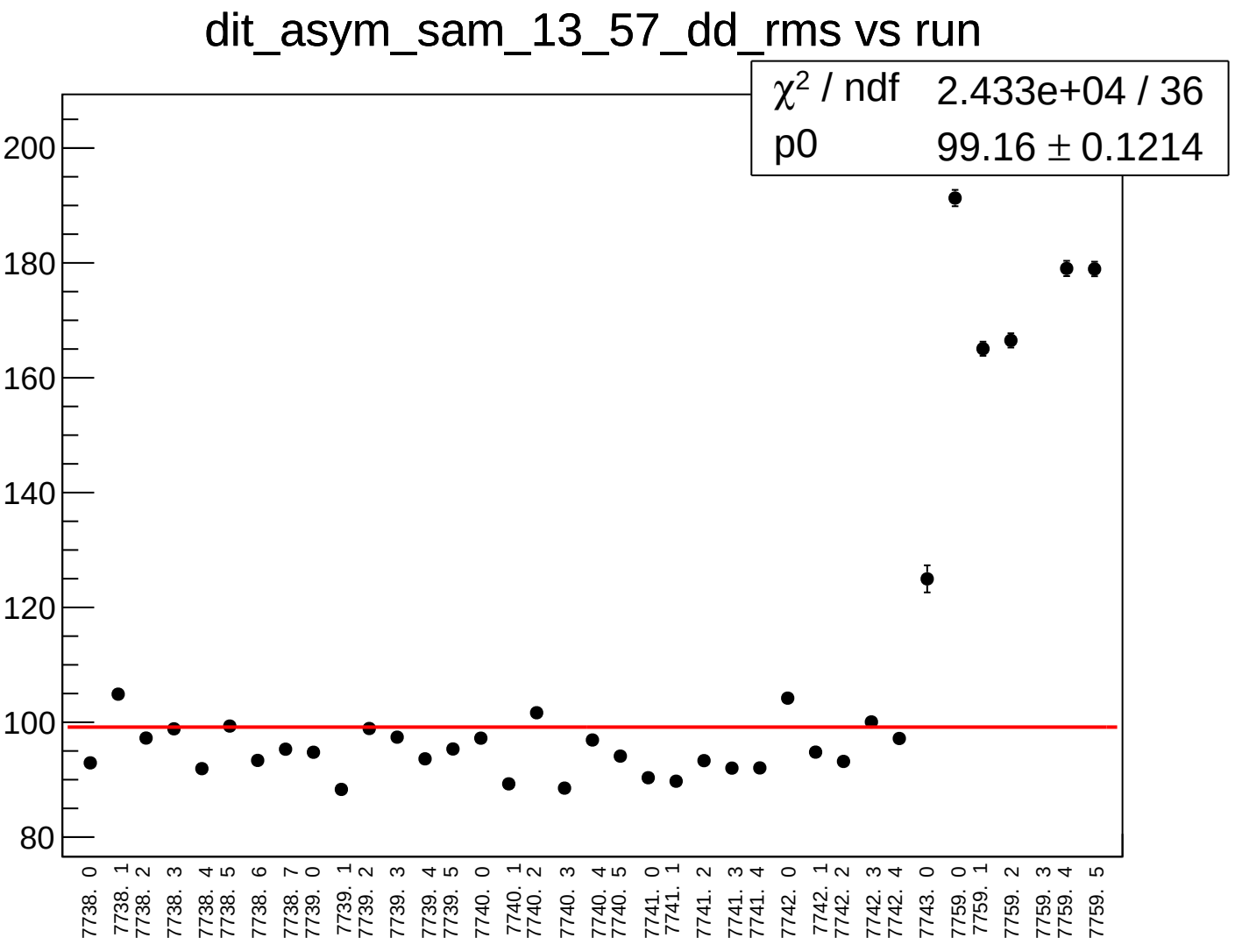

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 39.72 / 36
p0 1752 ± 3568
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −742.3
Std Dev 758.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

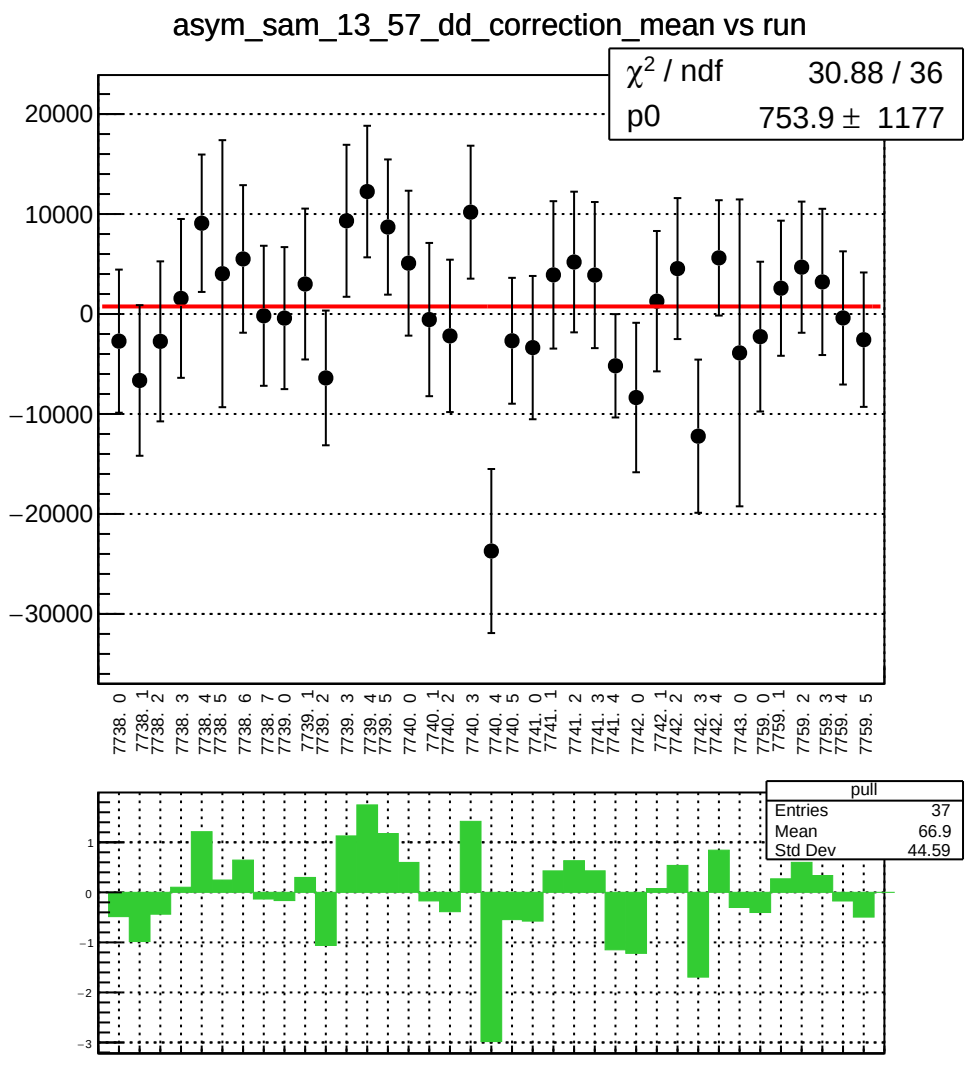

pull1D
Entries 37
Mean −0.00308
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

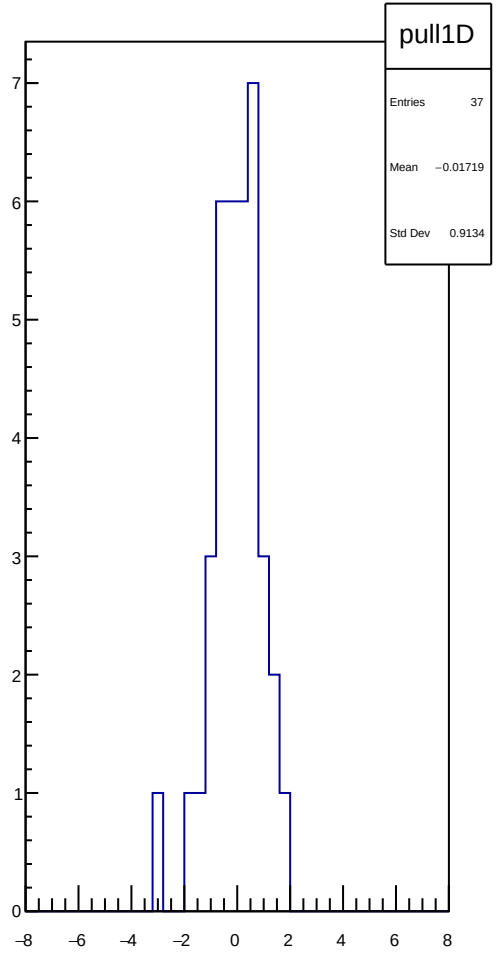

asym_sam_48_dd_rms vs run
χ² / ndf 2.069e+04 / 36
p0 2066 ± 2.523
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

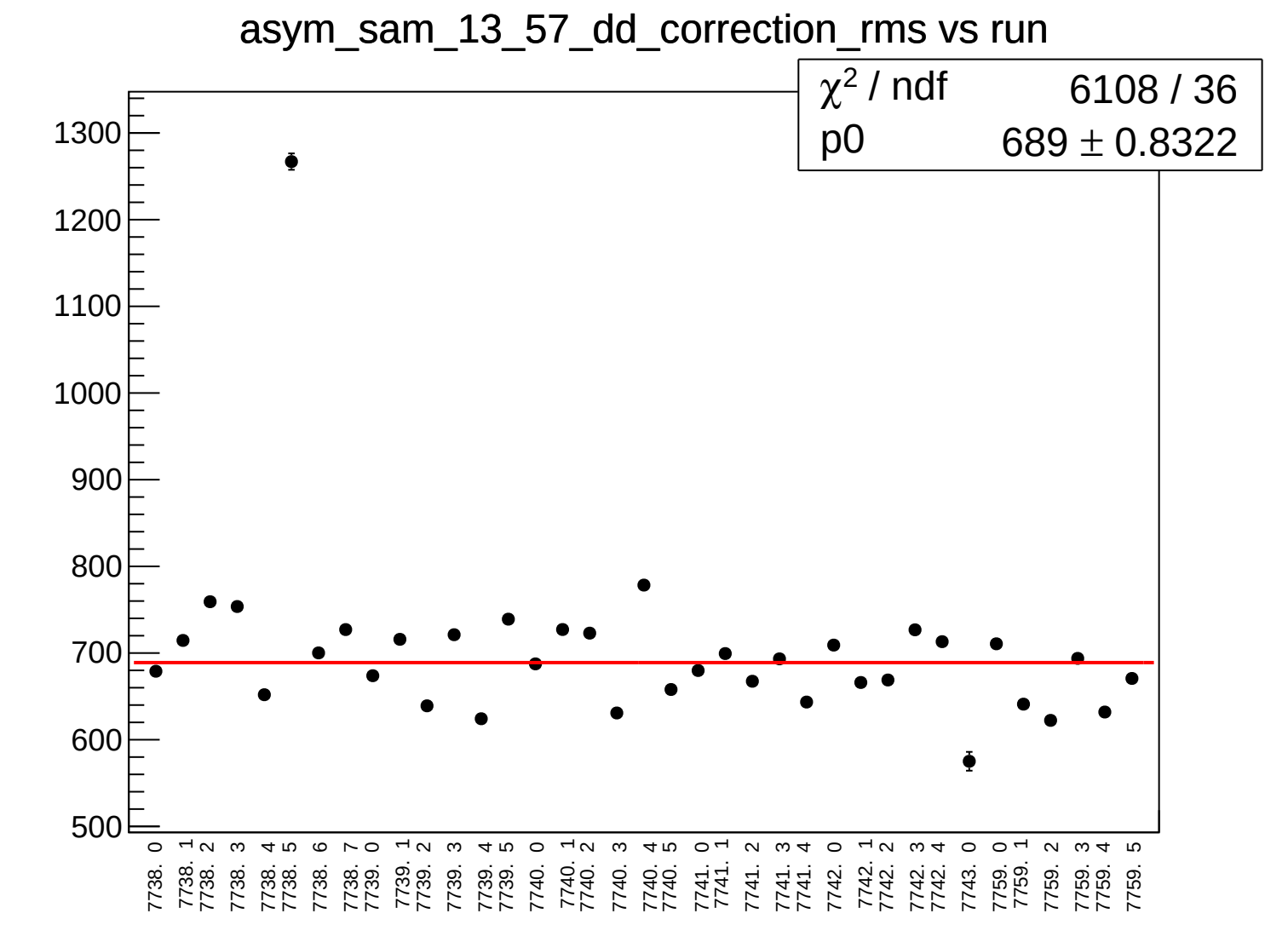

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 26.23 / 36
p0 −3.992 ± 171.7
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −77.96
Std Dev 83.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2

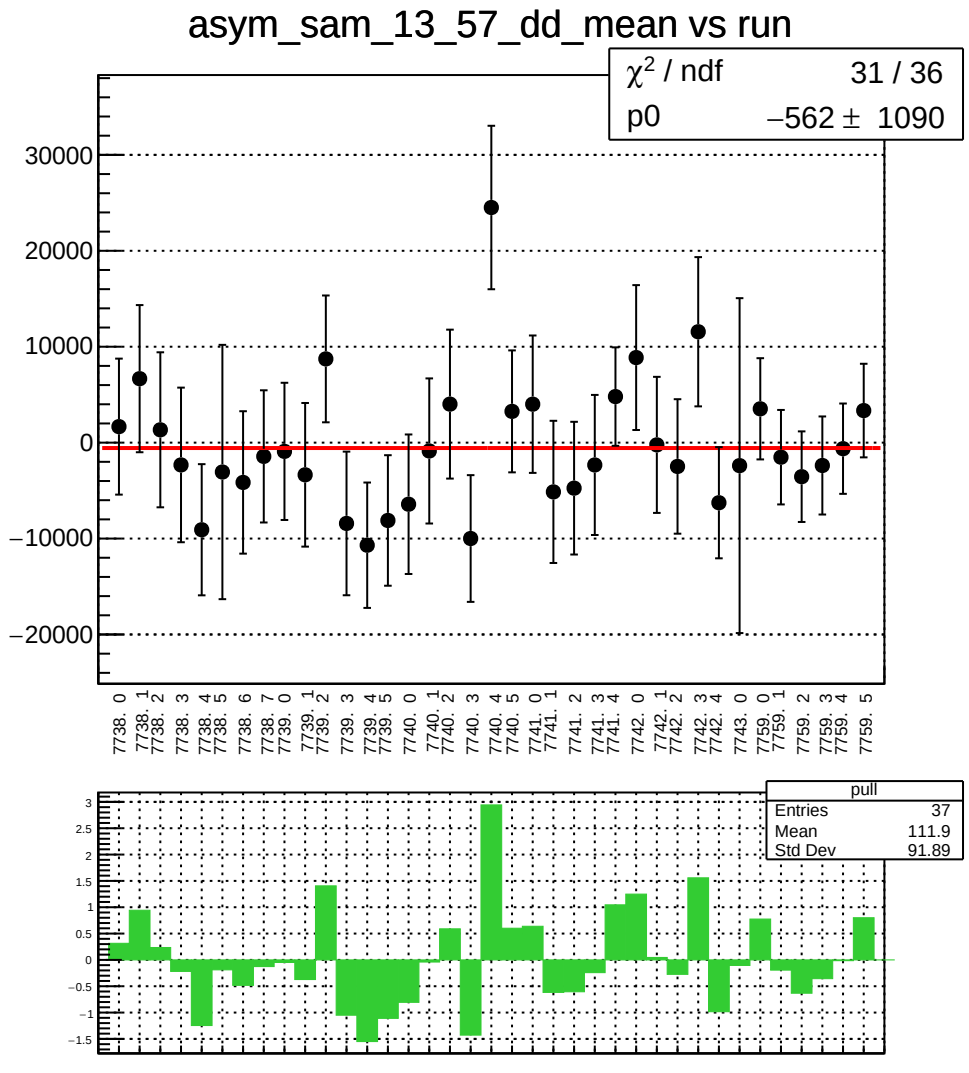

pull1D
Entries 37
Mean −0.007836
Std Dev 0.8419
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

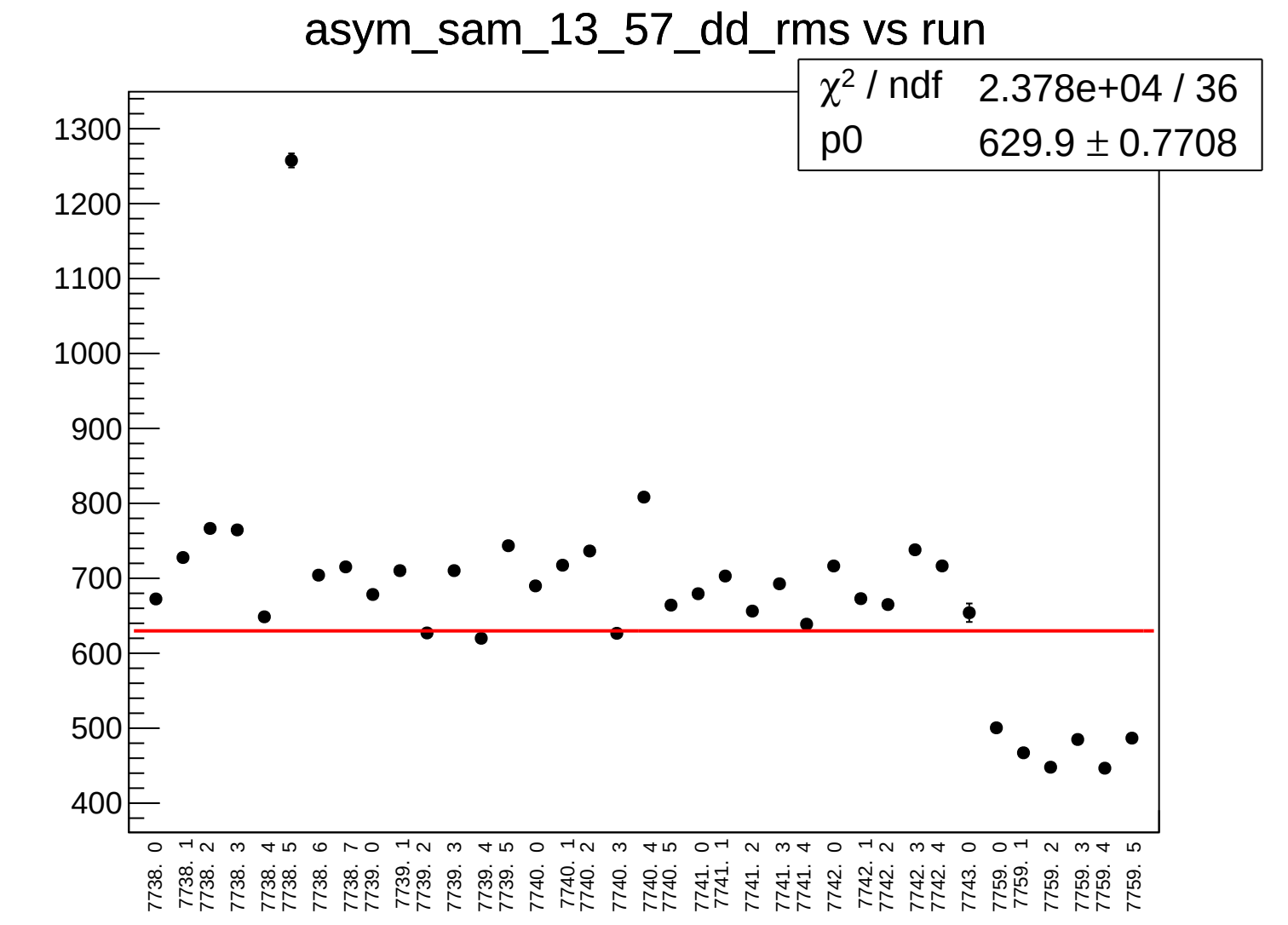

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.433e+04 / 36
p0 99.16 ± 0.1214
200
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

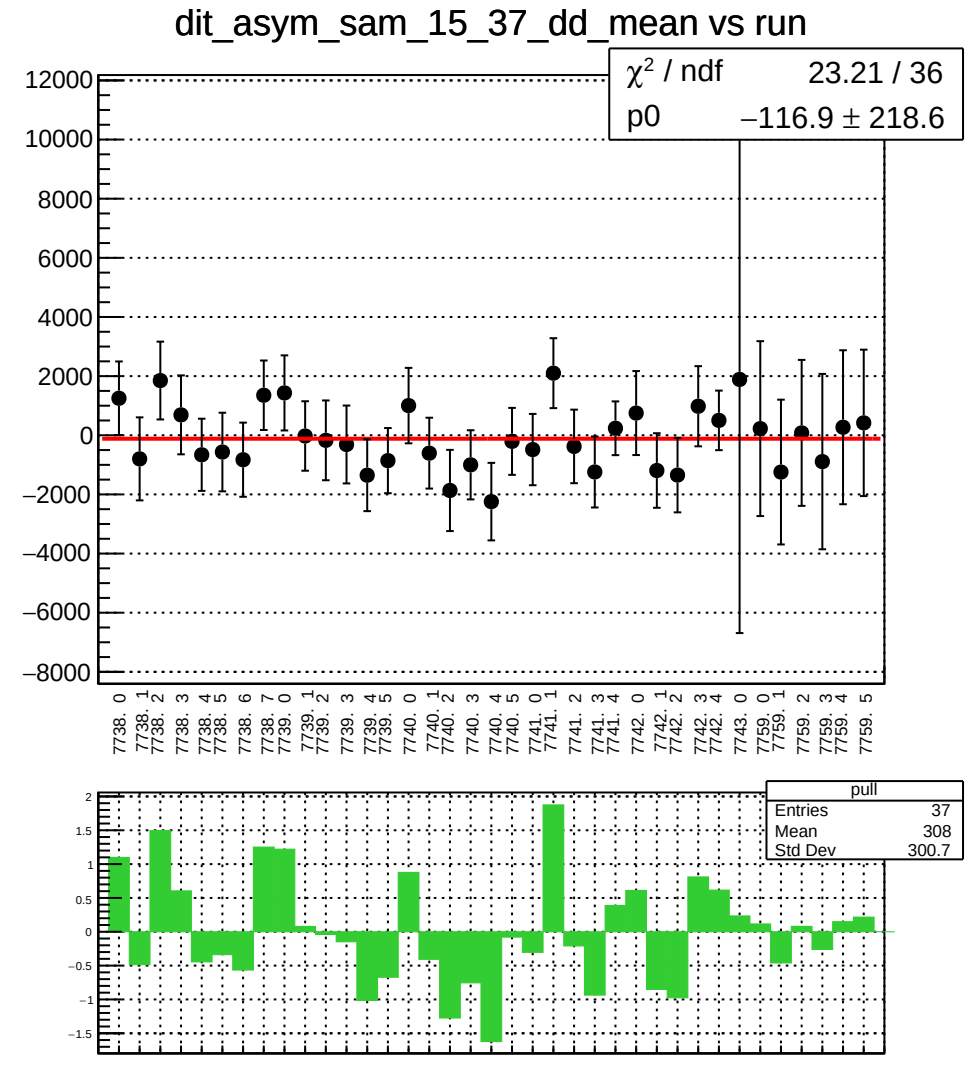

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 30.88 / 36
p0 753.9 ± 1177
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 66.9
Std Dev 44.59
1
0
−1
−2
−3

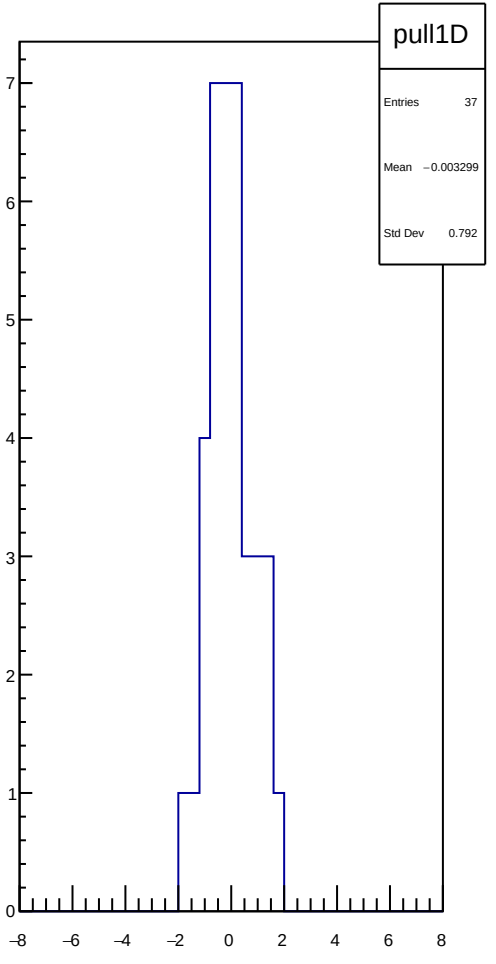

pull1D
Entries 37
Mean −0.01719
Std Dev 0.9134
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

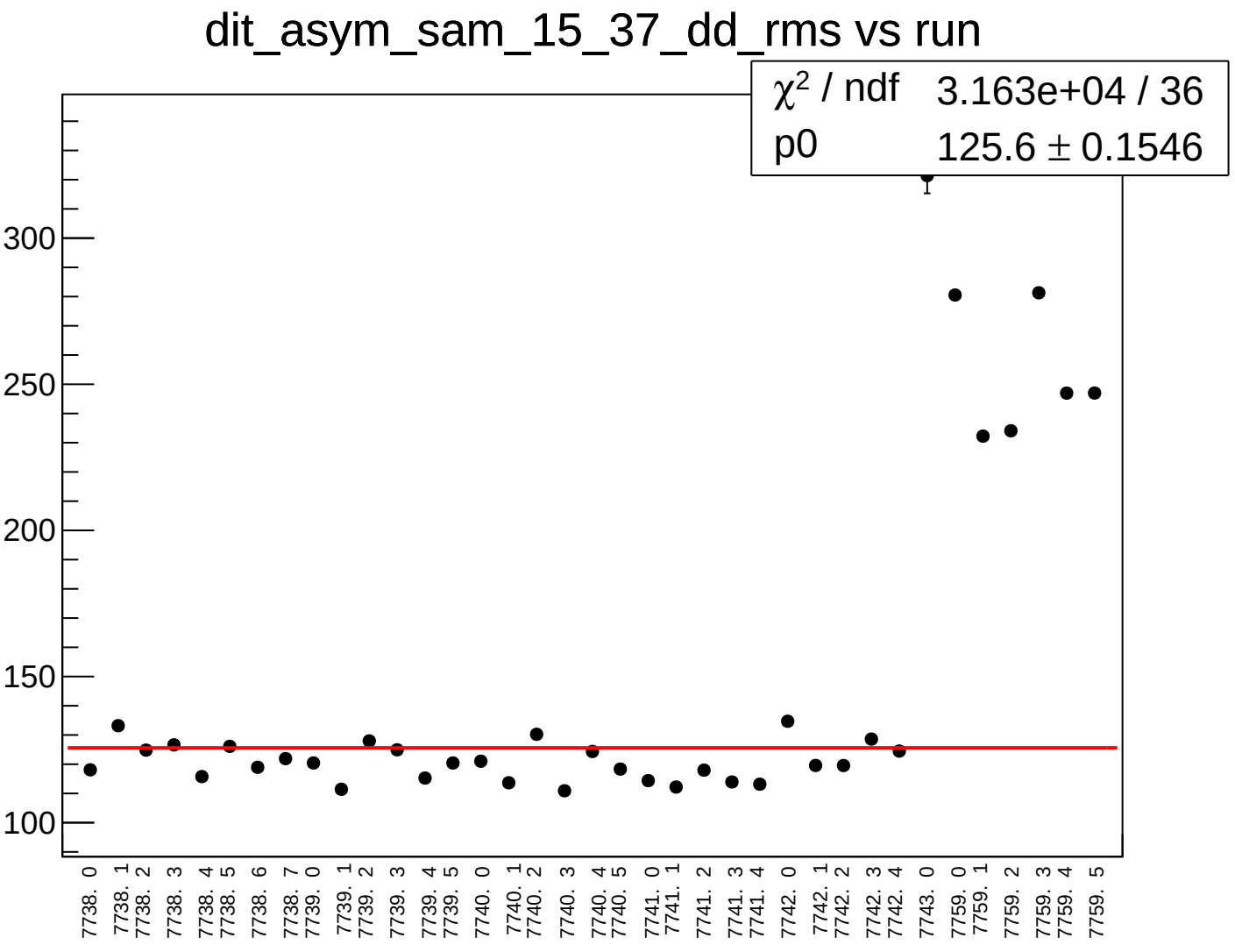

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 6108 / 36
p0 689 ± 0.8322
1300
1200
1100
1000
900
800
700
600
500
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

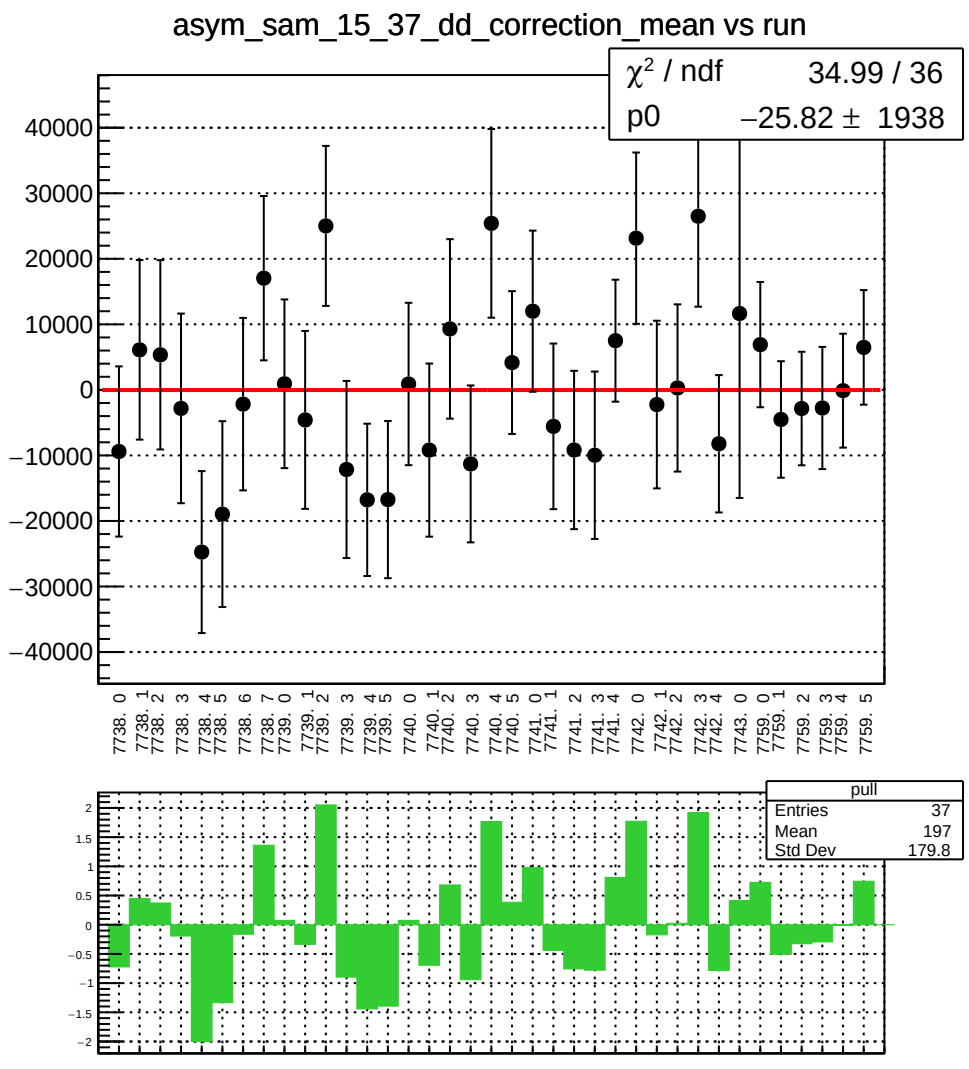

asym_sam_13_57_dd_mean vs run
χ² / ndf 31 / 36
p0 −562 ± 1090
30000
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 111.9
Std Dev 91.89
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.01228
Std Dev 0.9152
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

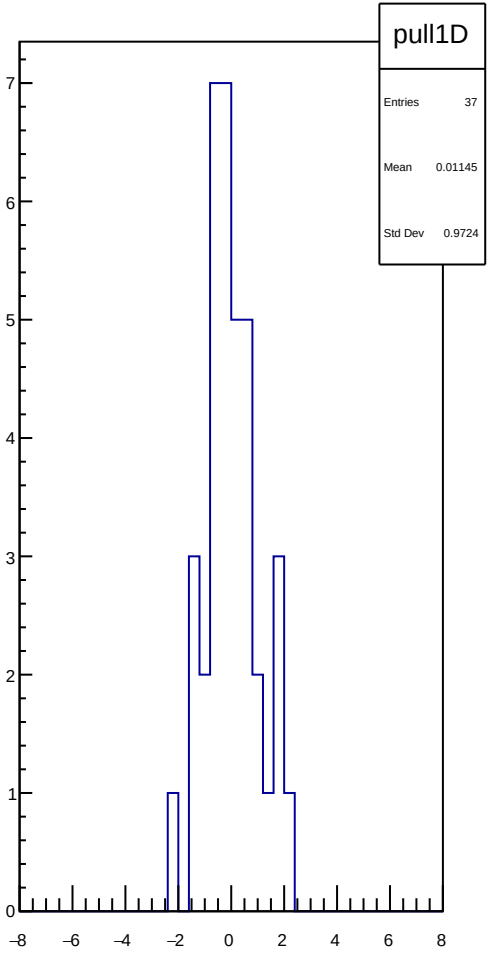

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.378e+04 / 36
p0 629.9 ± 0.7708
1300
1200
1100
1000
900
800
700
600
500
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

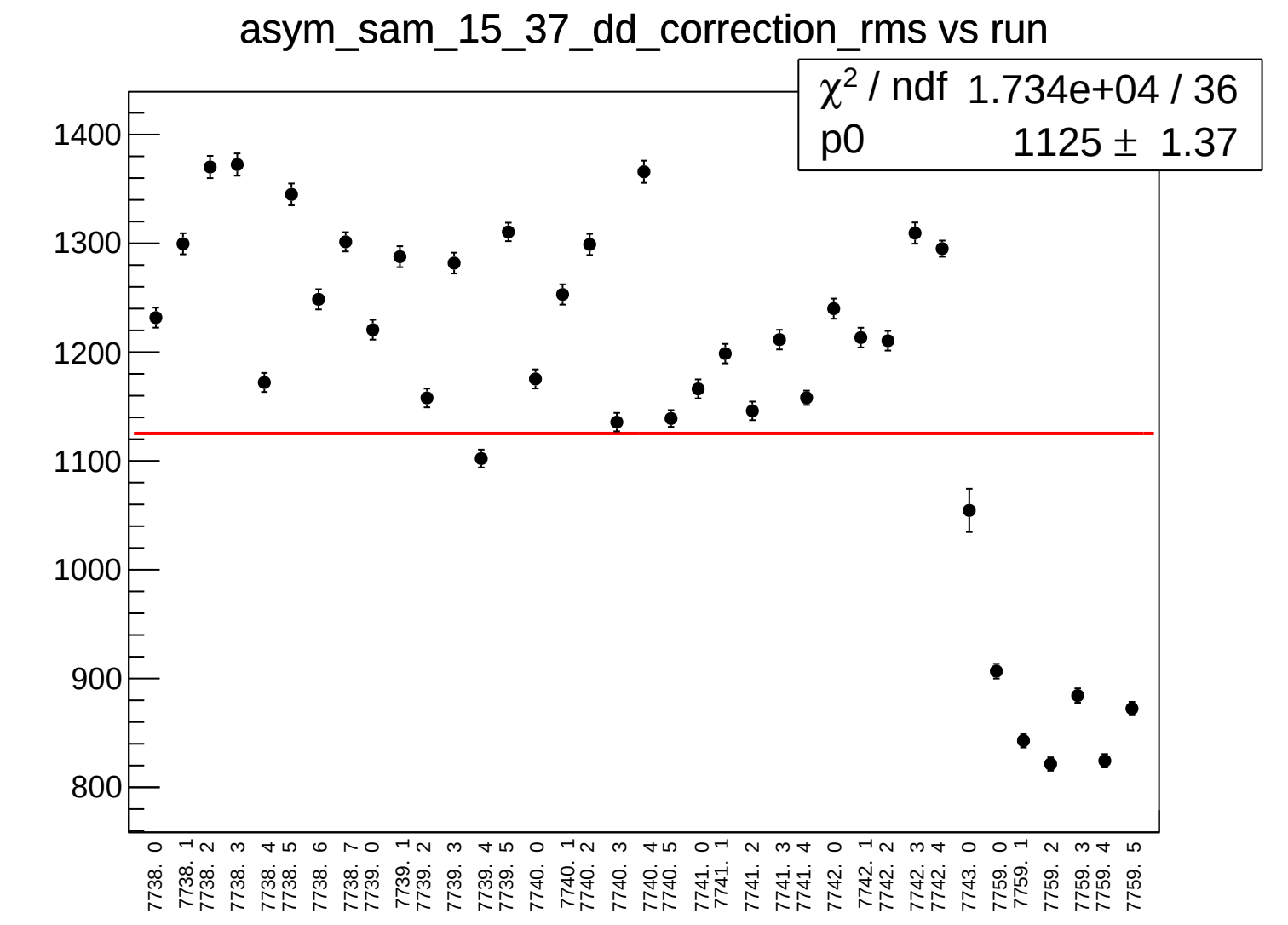

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 23.21 / 36
p0 −116.9 ± 218.6
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 308
Std Dev 300.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

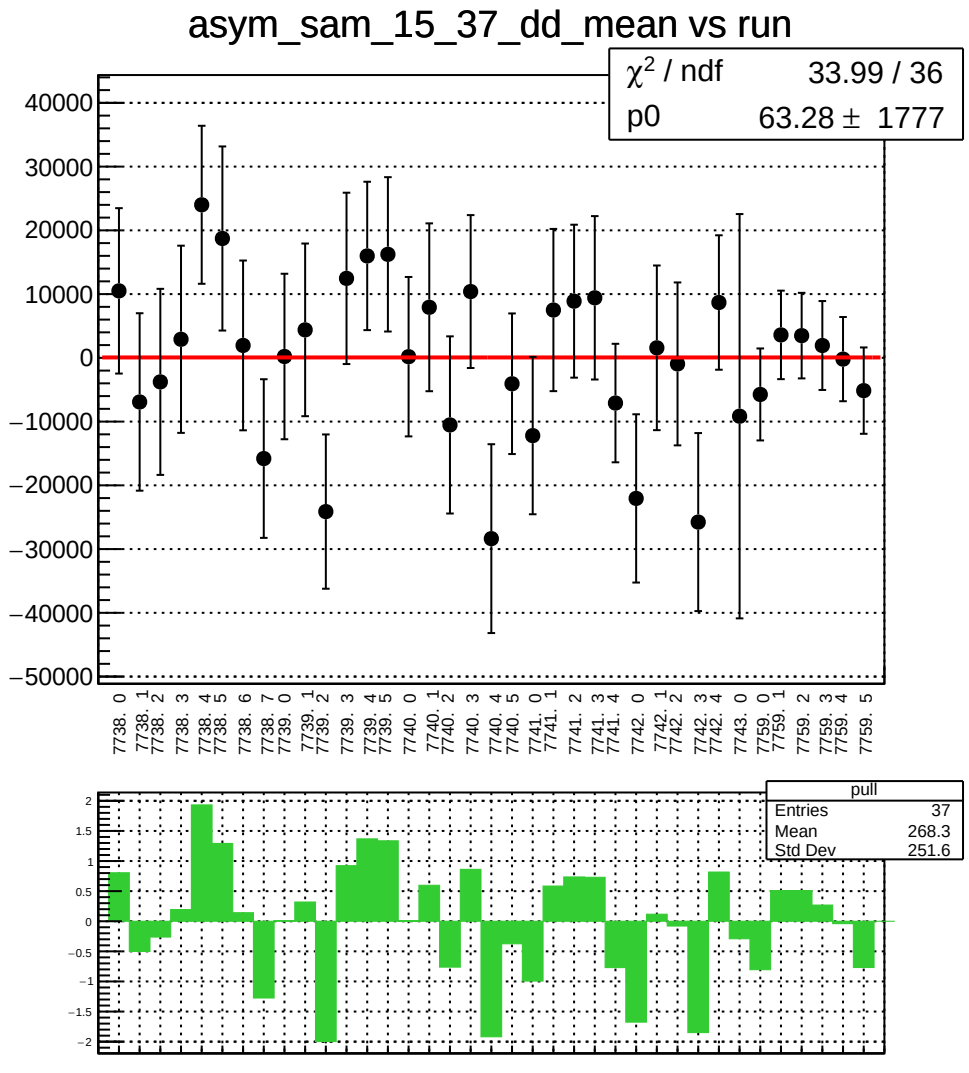

pull1D
Entries 37
Mean −0.003299
Std Dev 0.792
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

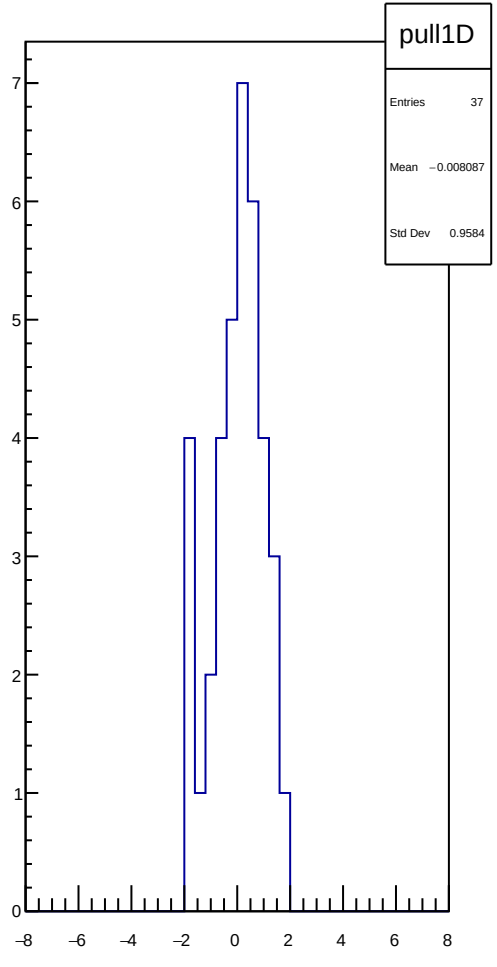

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.163e+04 / 36
p0 125.6 ± 0.1546
300
250
200
150
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

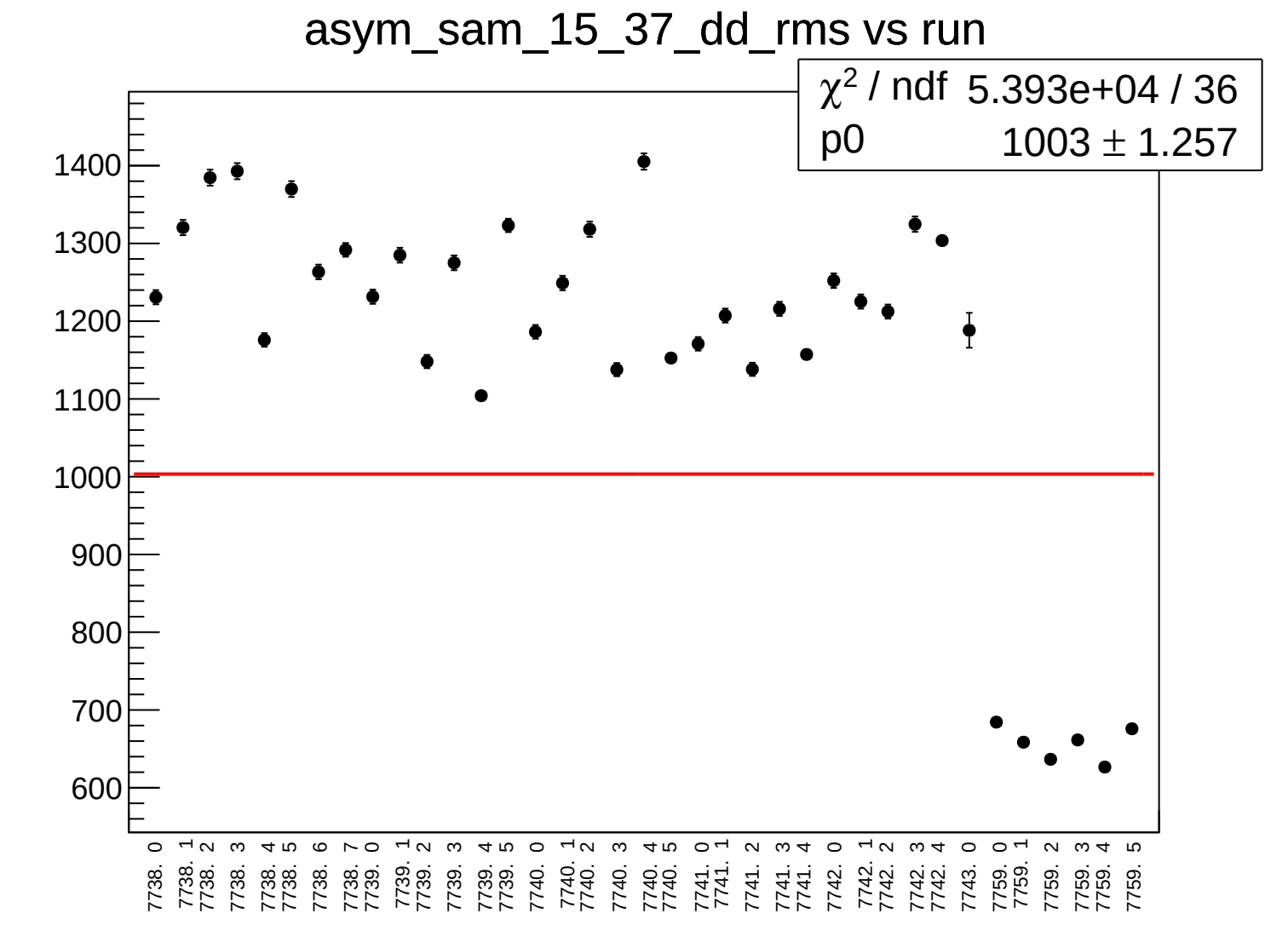

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 34.99 / 36
p0 −25.82 ± 1938
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 197
Std Dev 179.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

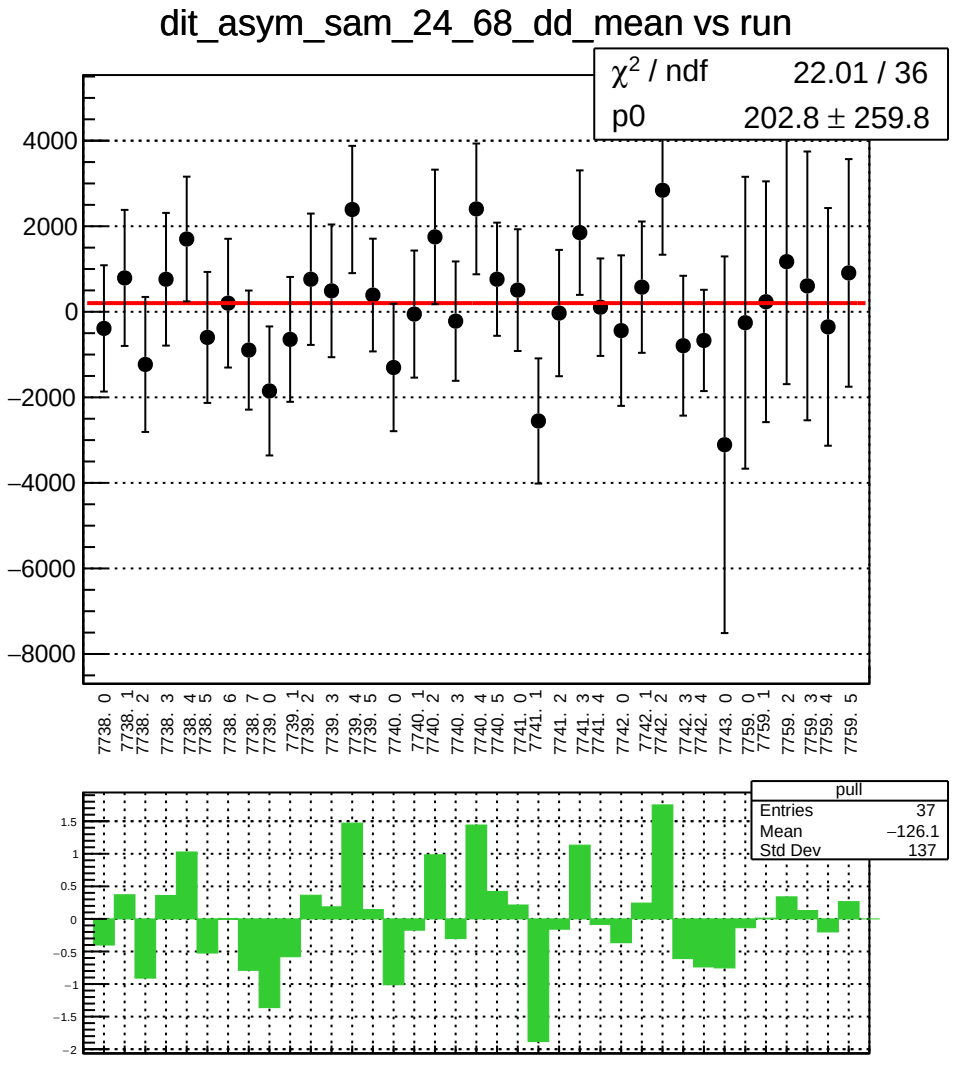

pull1D
Entries 37
Mean 0.01145
Std Dev 0.9724
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

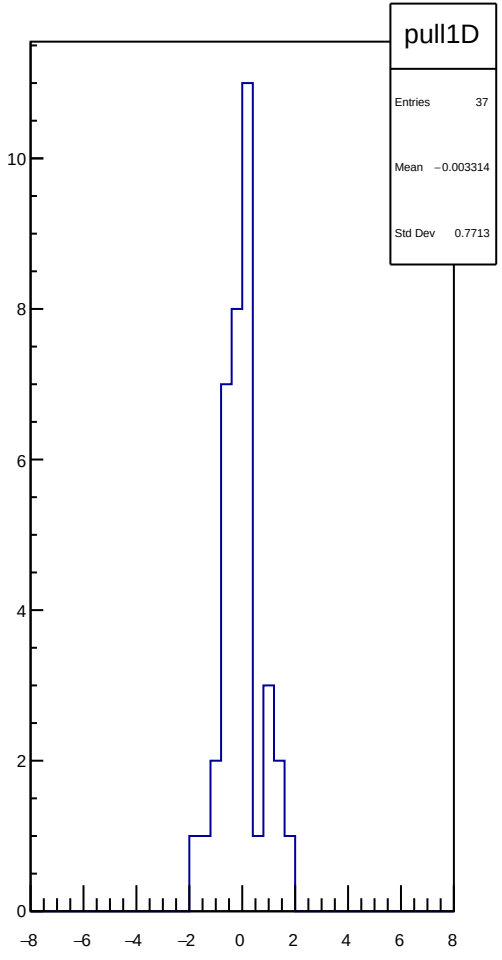

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.734e+04 / 36
p0 1125 ± 1.37
1400
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

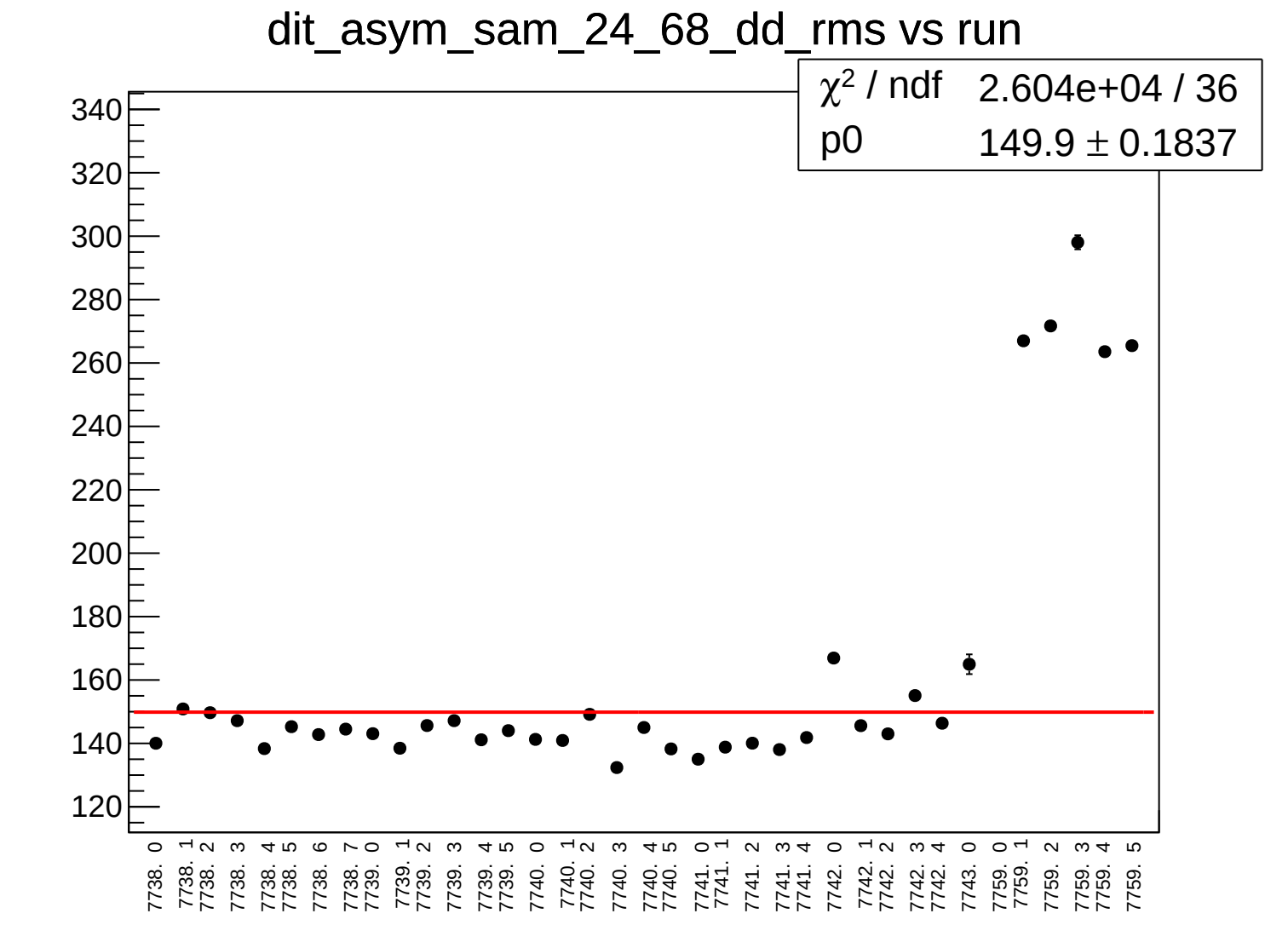

asym_sam_15_37_dd_mean vs run
χ² / ndf 33.99 / 36
p0 63.28 ± 1777
pull
Entries 37
Mean 268.3
Std Dev 251.6

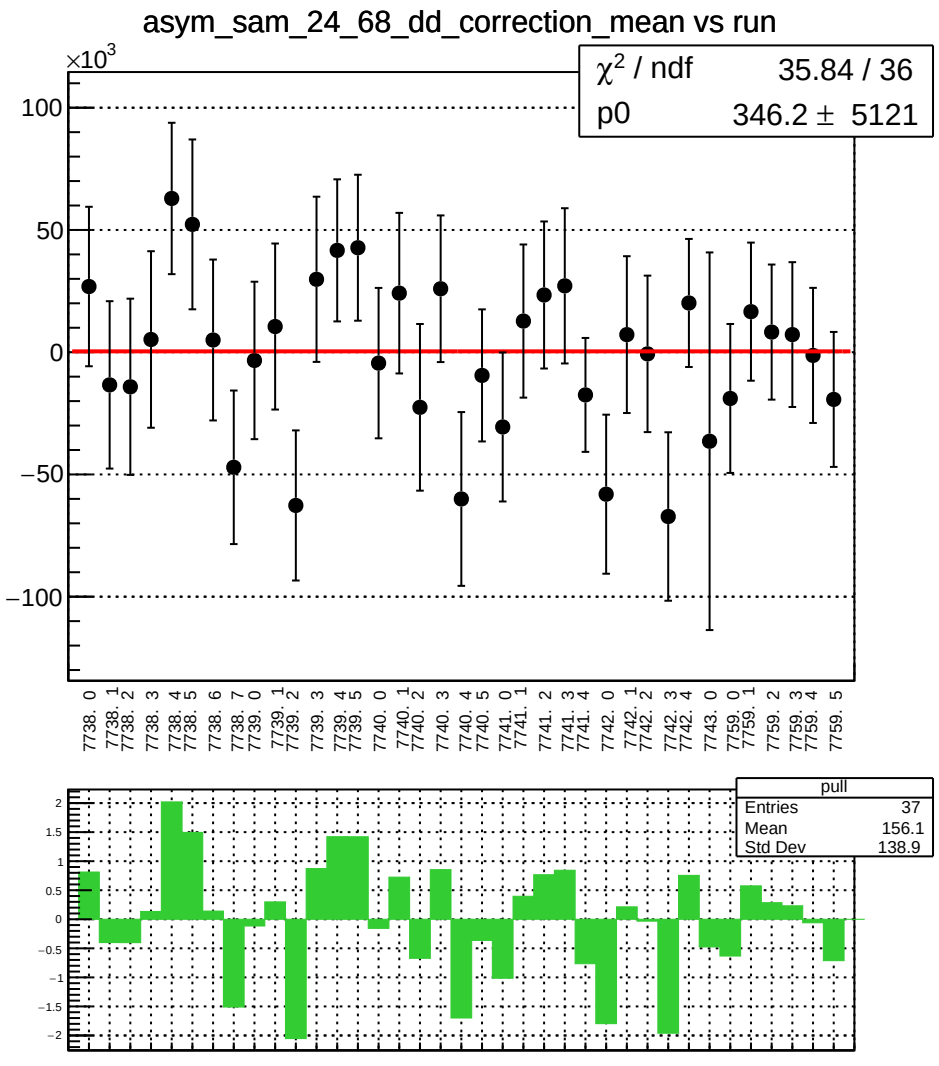

pull1D
Entries 37
Mean −0.008087
Std Dev 0.9584

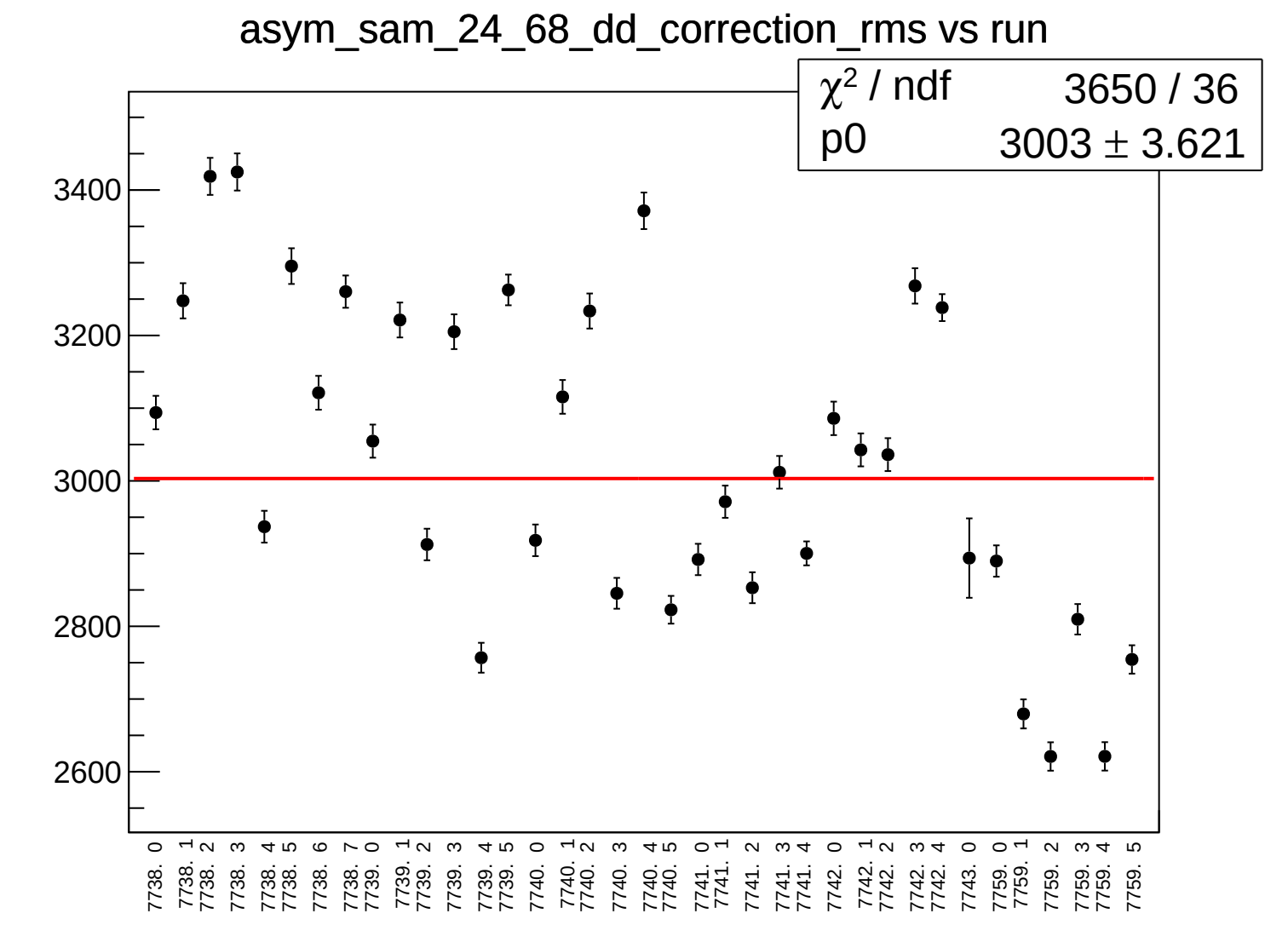

asym_sam_15_37_dd_rms vs run
χ² / ndf 5.393e+04 / 36
p0 1003 ± 1.257
1400
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

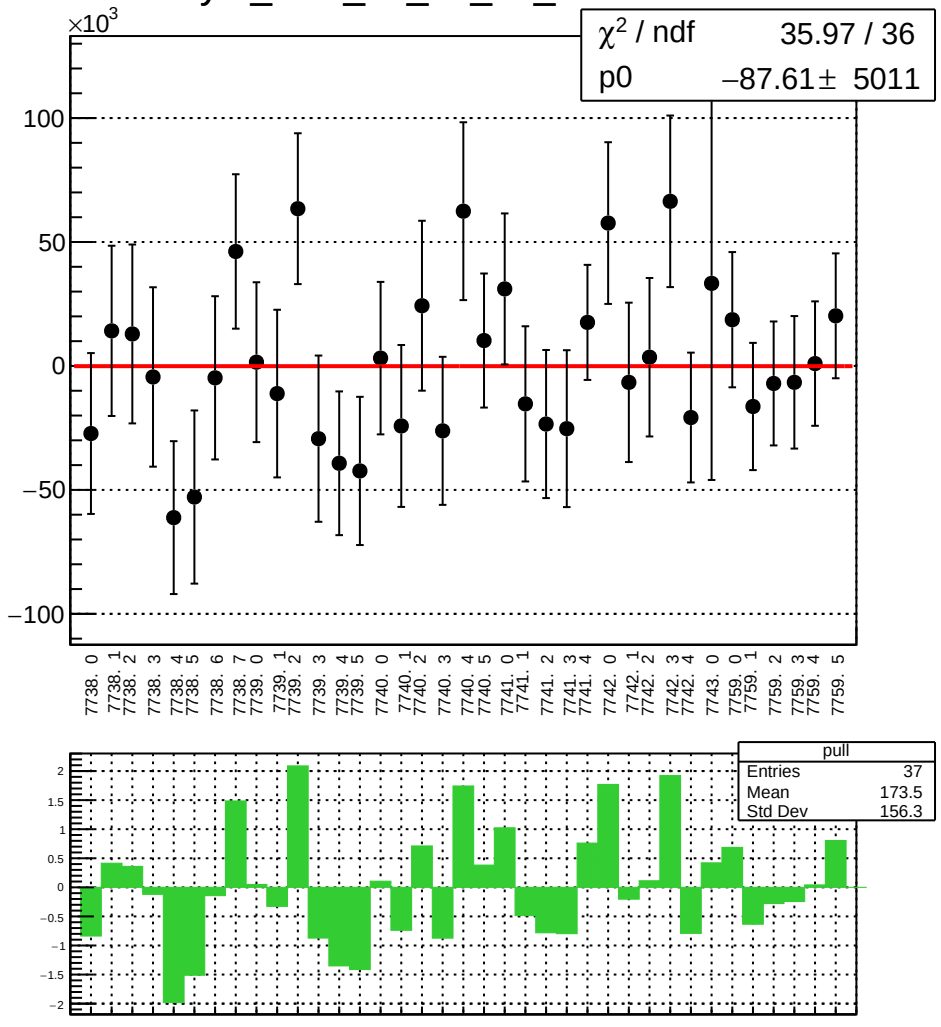

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 22.01 / 36
p0 202.8 ± 259.8
4000
2000
0
−2000
−4000
−6000
−8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −126.1
Std Dev 137
1.5
1
0.5
0
−0.5
−1
−1.5
−2

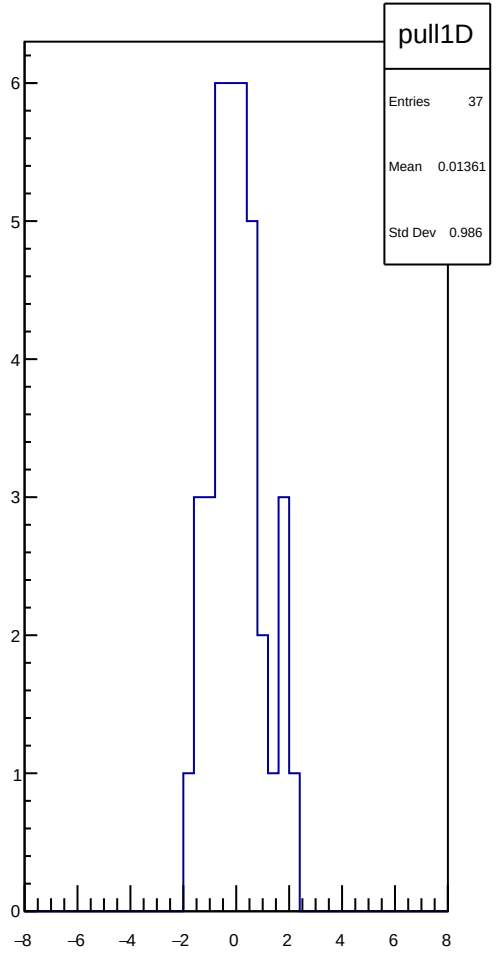

pull1D
Entries 37
Mean −0.003314
Std Dev 0.7713
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

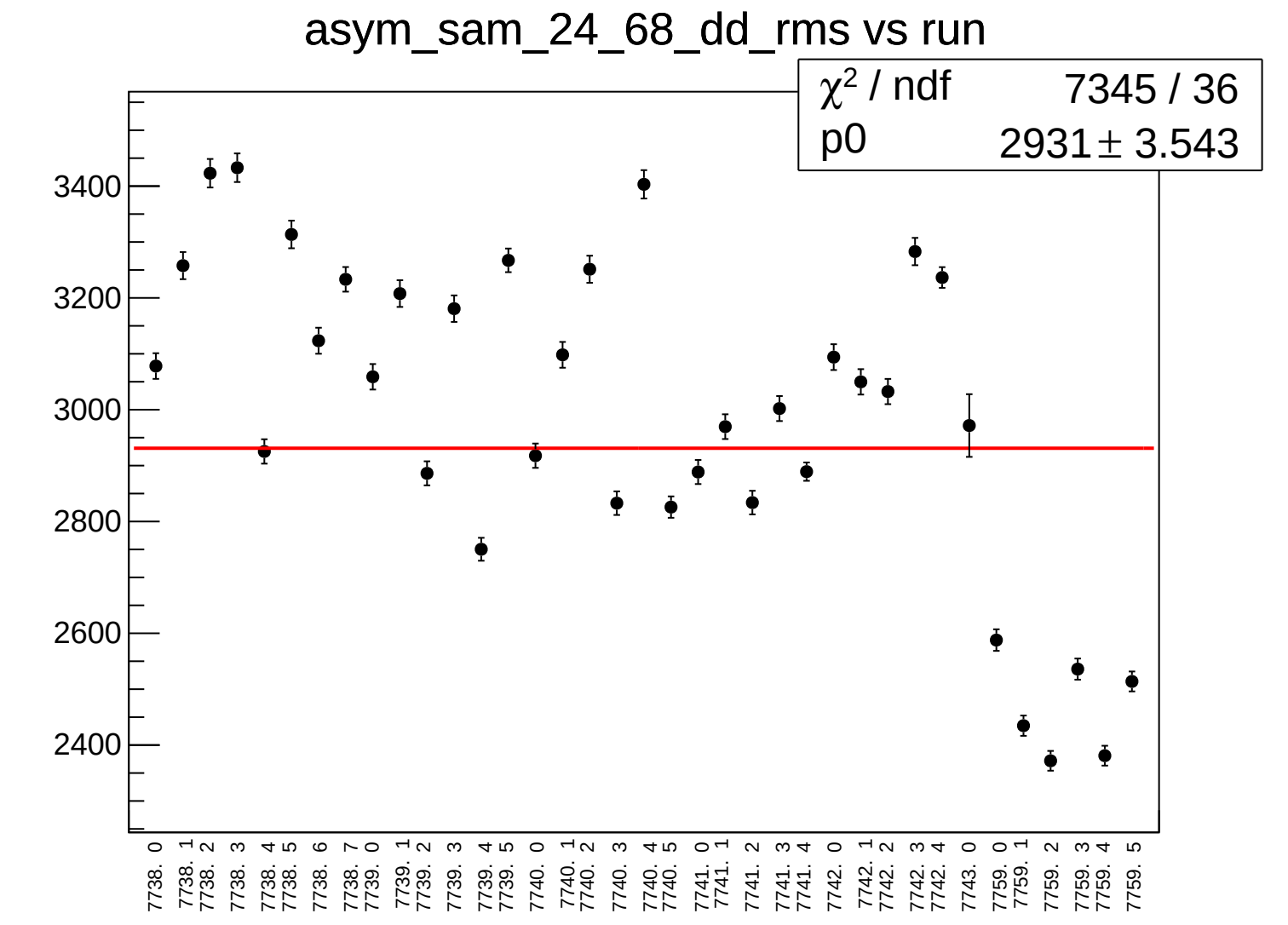

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 2.604e+04 / 36
p0 149.9 ± 0.1837
340
320
300
280
260
240
220
200
180
160
140
120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

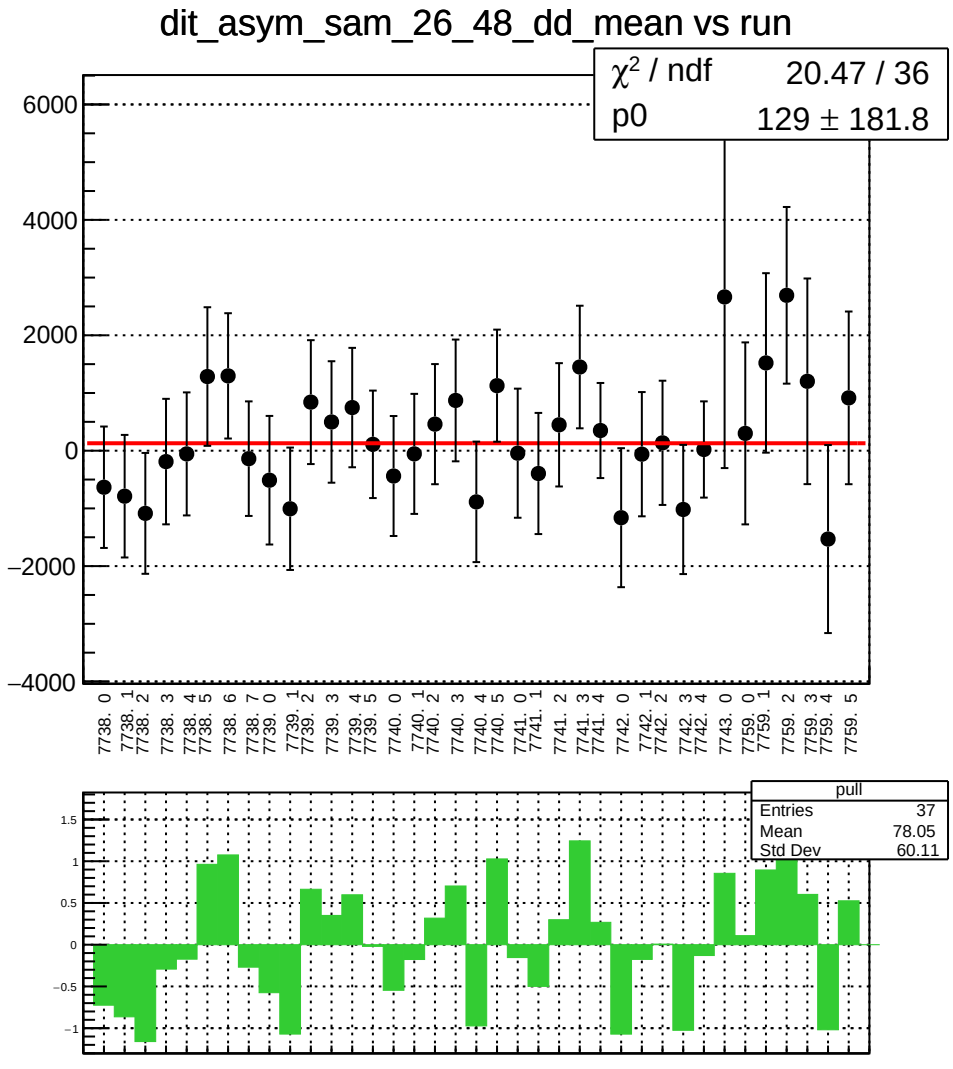

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 35.84 / 36
p0 346.2 ± 5121
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 156.1
Std Dev 138.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01509
Std Dev 0.9841
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

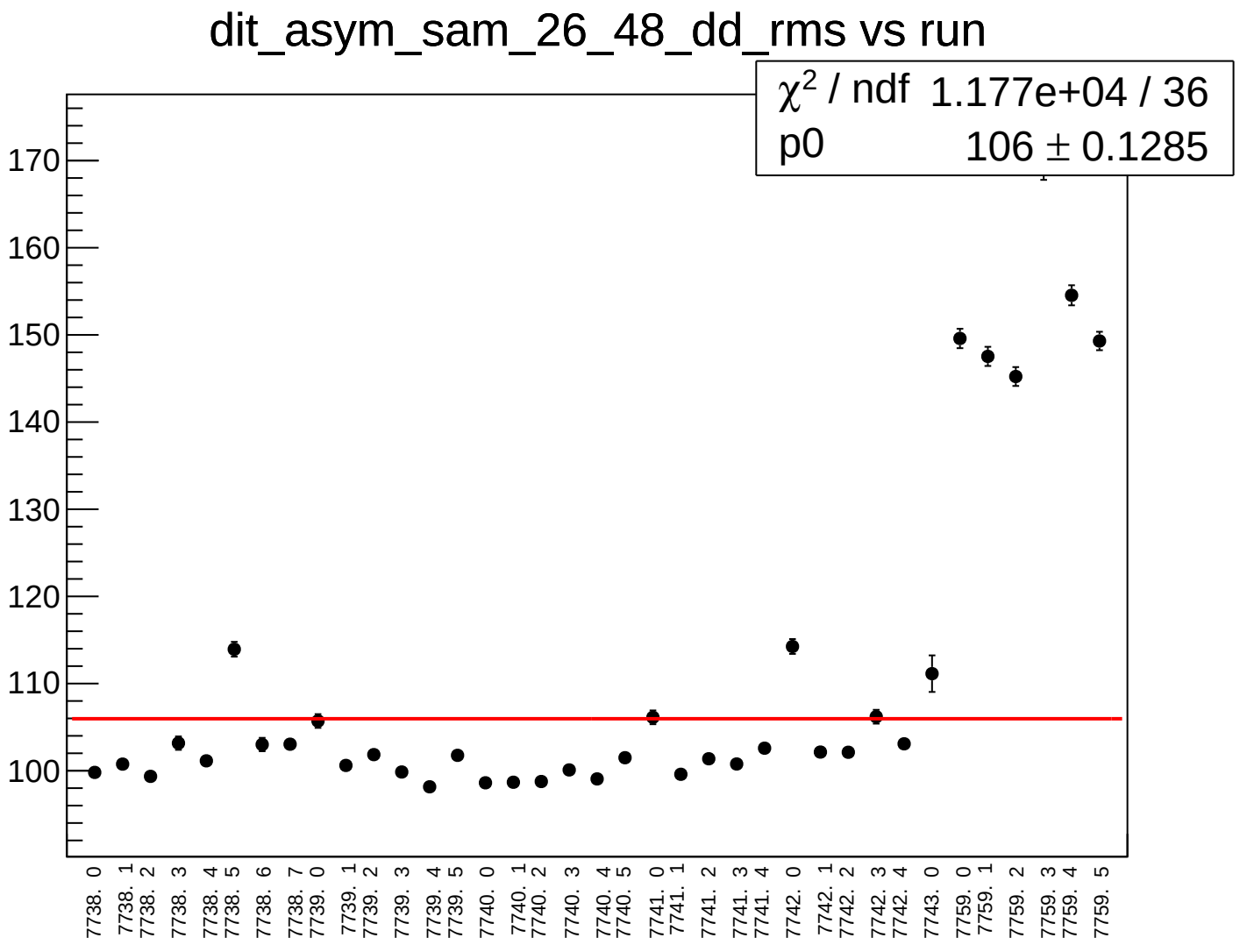

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3650 / 36
p0 3003 ± 3.621
3400
3200
3000
2800
2600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

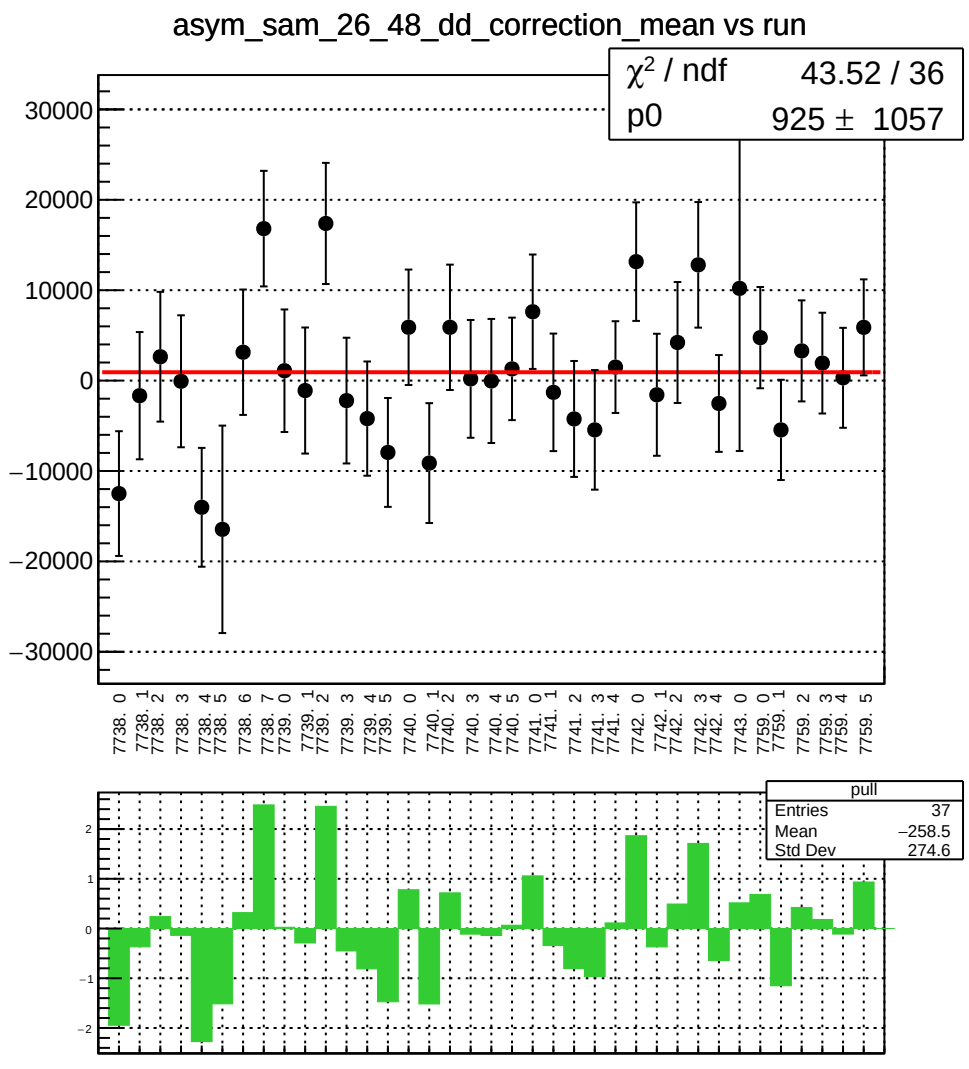

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 35.97 / 36
p0 −87.61± 5011
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 173.5
Std Dev 156.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

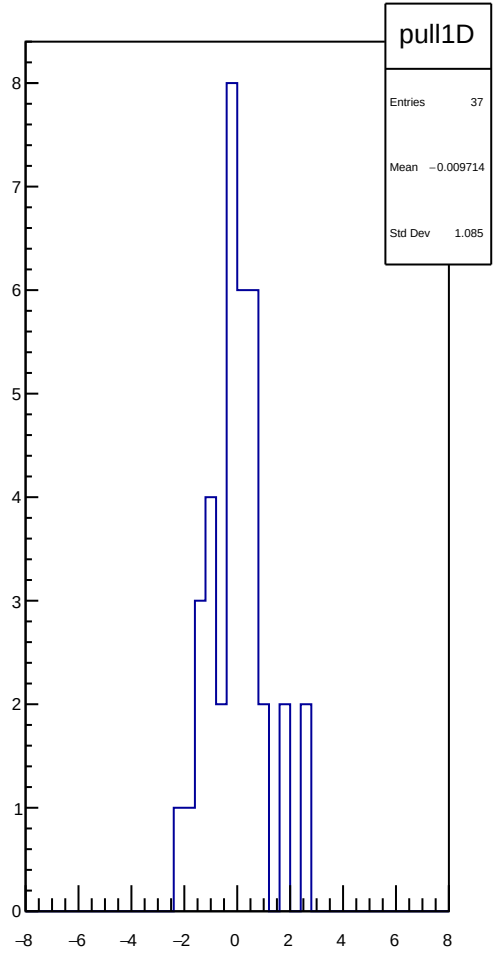

pull1D
Entries 37
Mean 0.01361
Std Dev 0.986
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

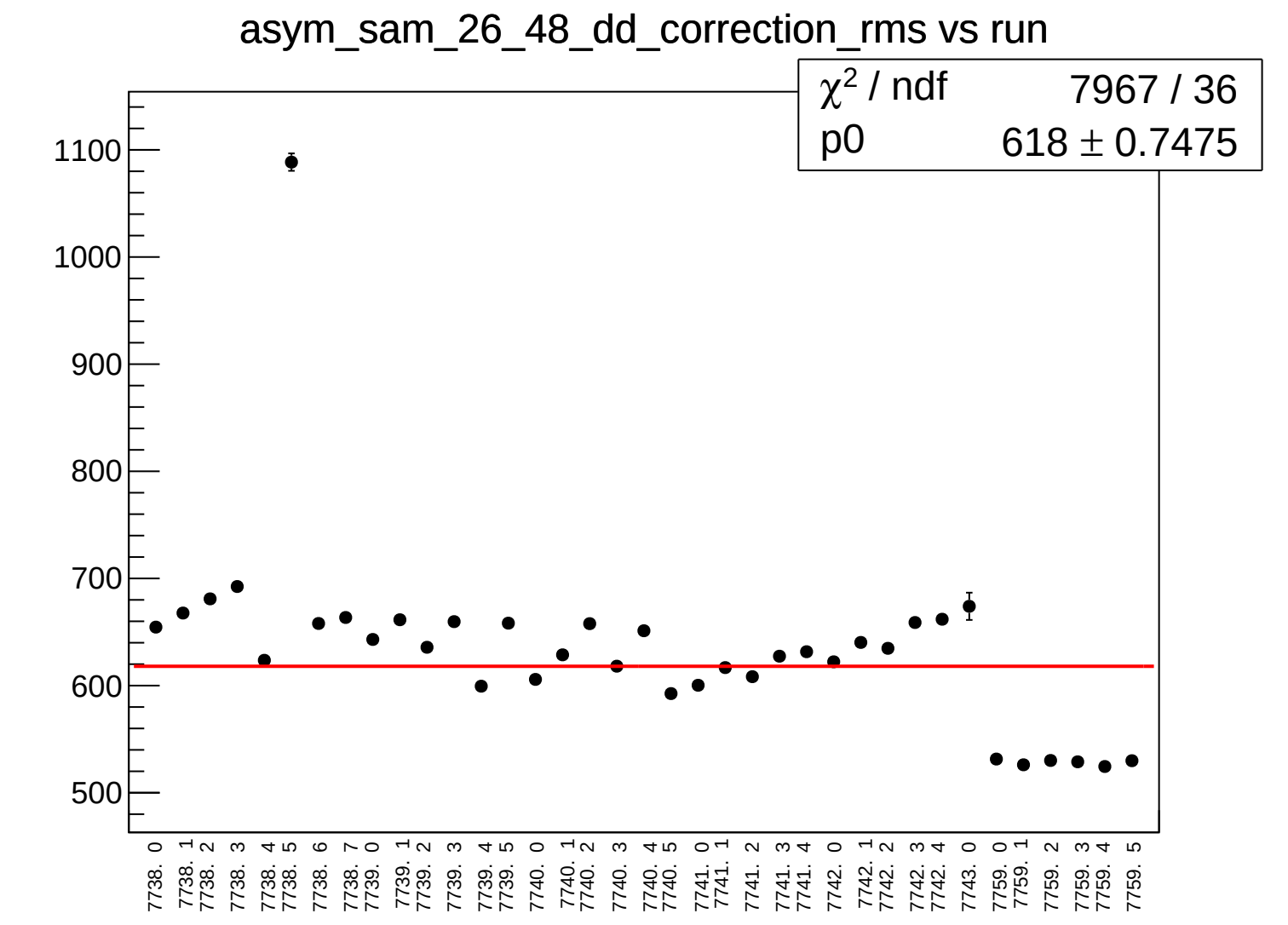

asym_sam_24_68_dd_rms vs run
χ² / ndf 7345 / 36
p0 2931 ± 3.543
3400
3200
3000
2800
2600
2400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

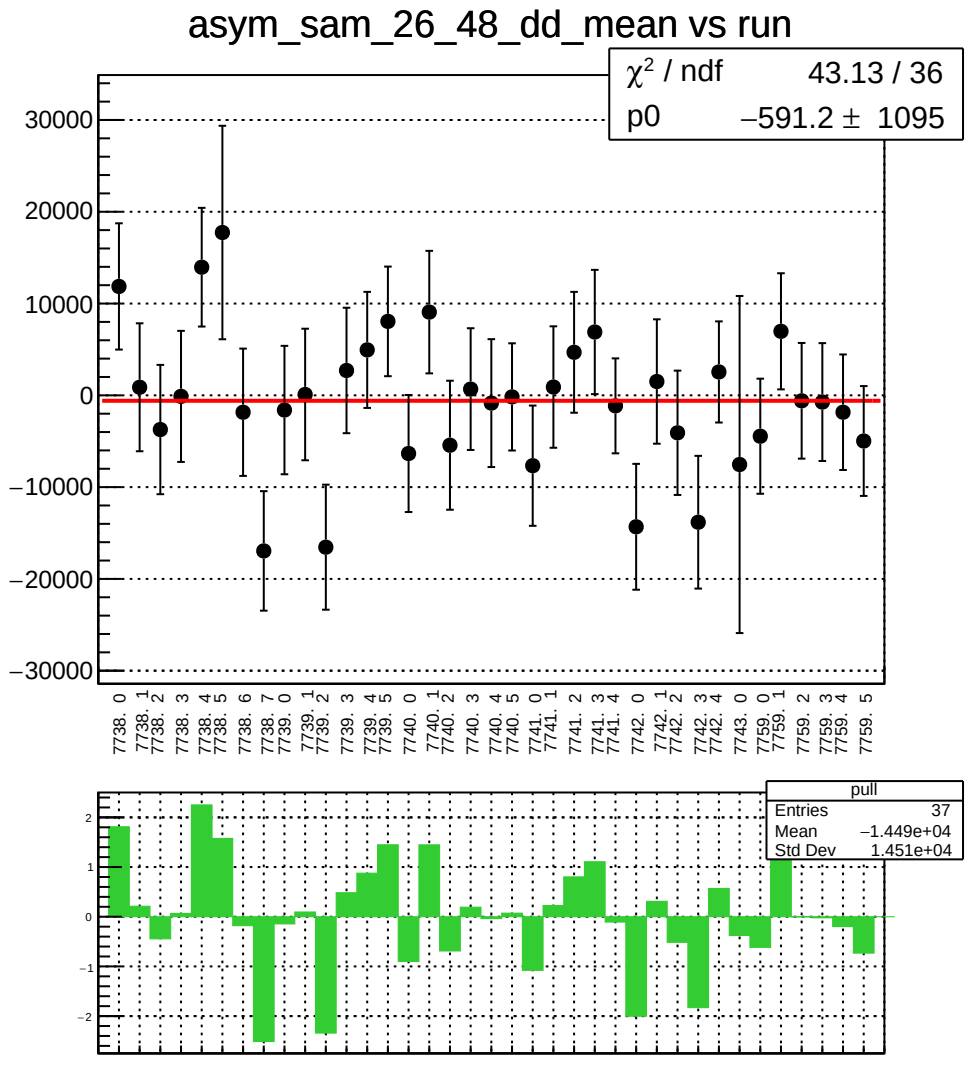

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 20.47 / 36
p0 129 ± 181.8
6000
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 78.05
Std Dev 60.11
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.03402
Std Dev 0.743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

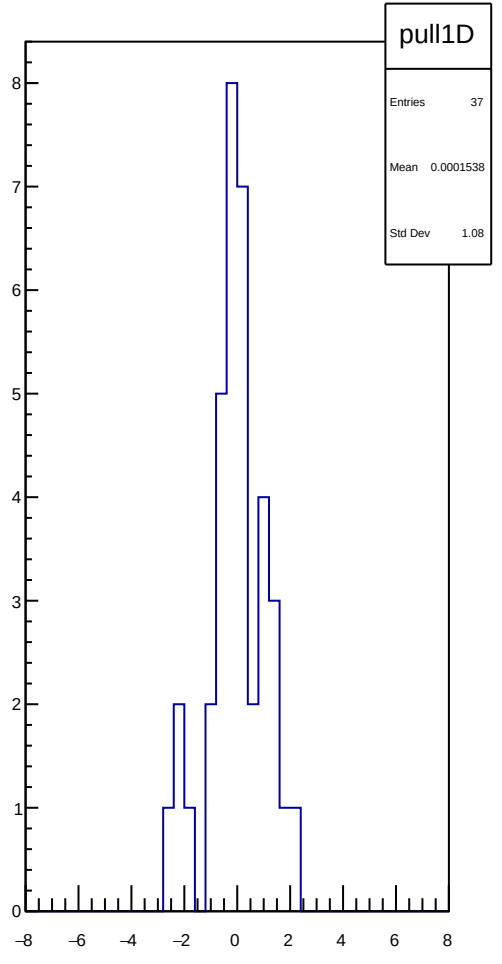

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.177e+04 / 36
p0 106 ± 0.1285
170
160
150
140
130
120
110
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

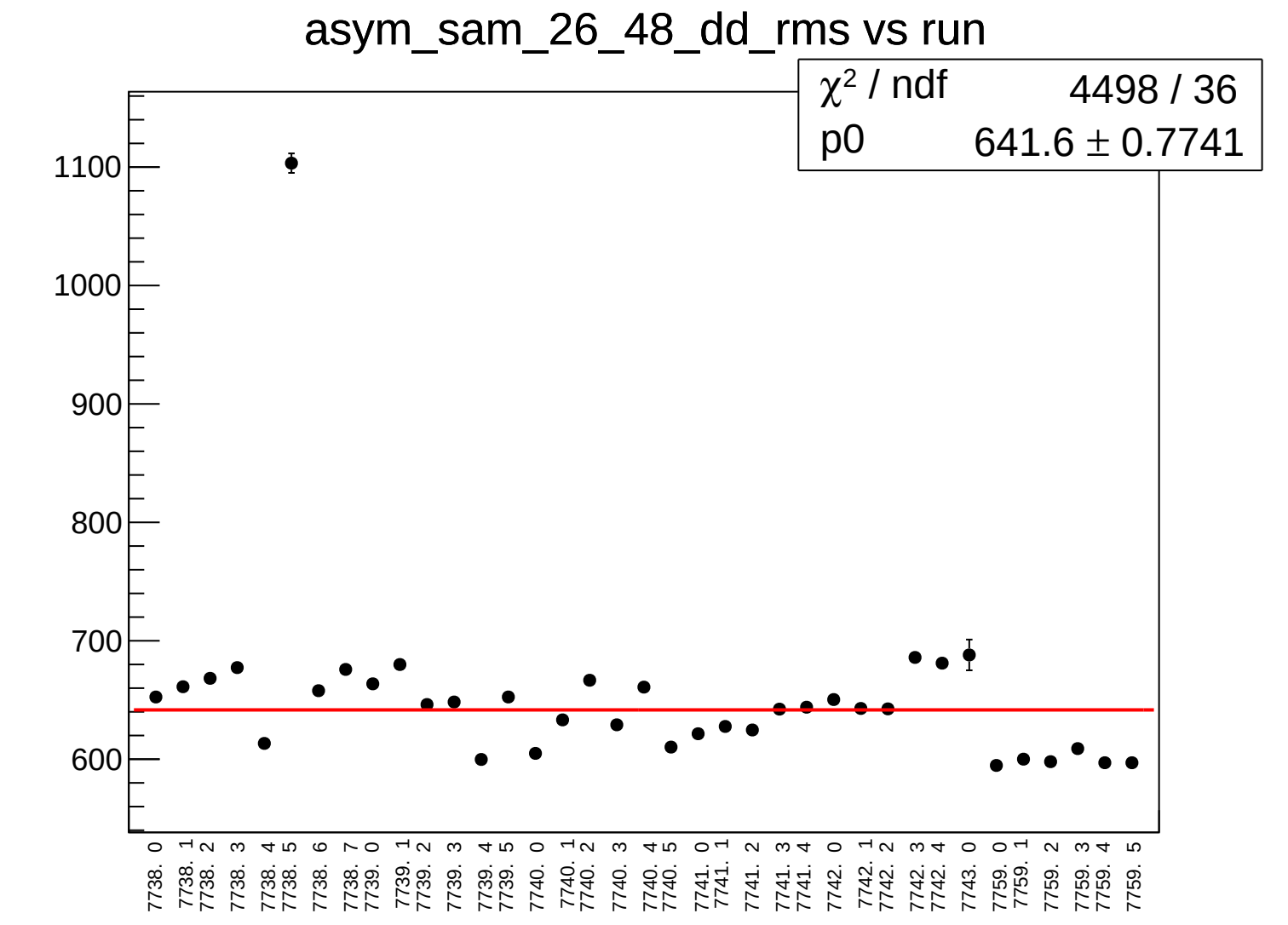

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 43.52 / 36
p0 925 ± 1057
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −258.5
Std Dev 274.6
2
1
0
−1
−2

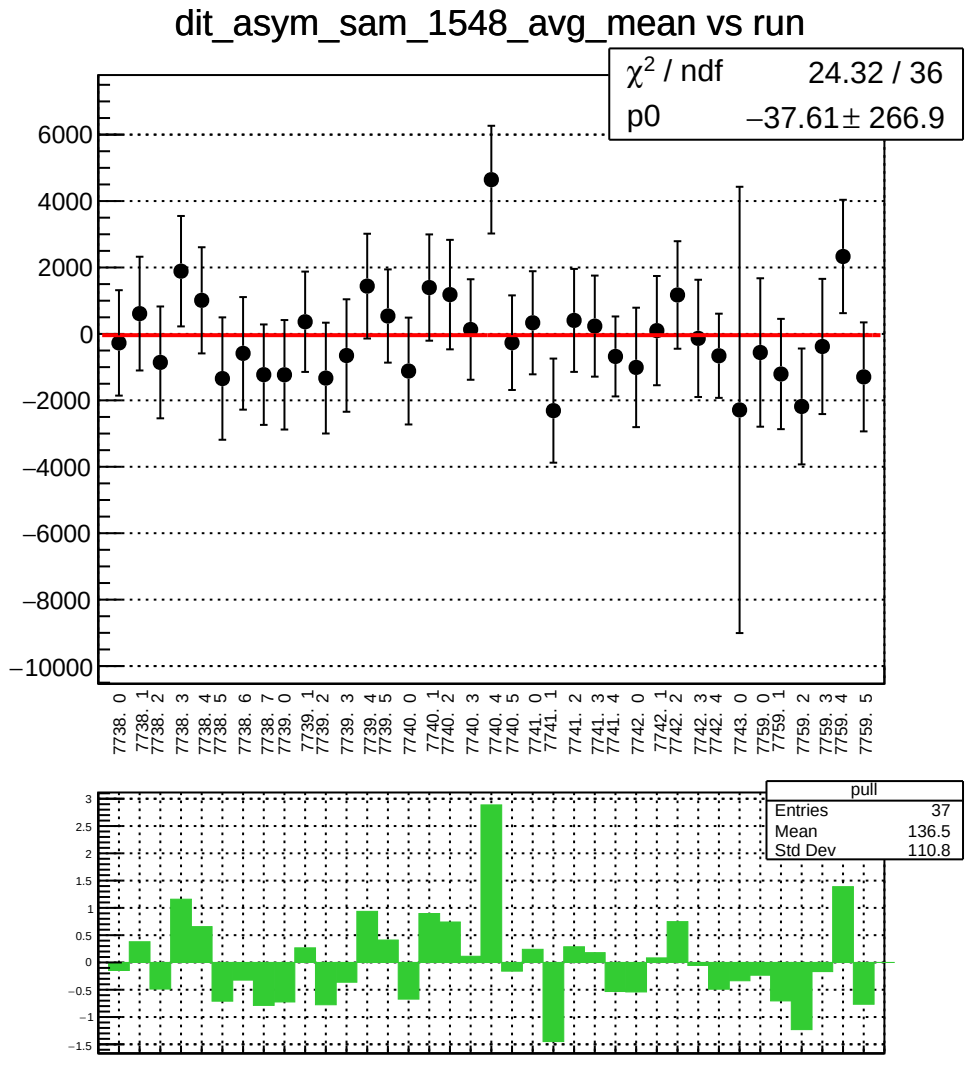

pull1D
Entries 37
Mean −0.009714
Std Dev 1.085
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

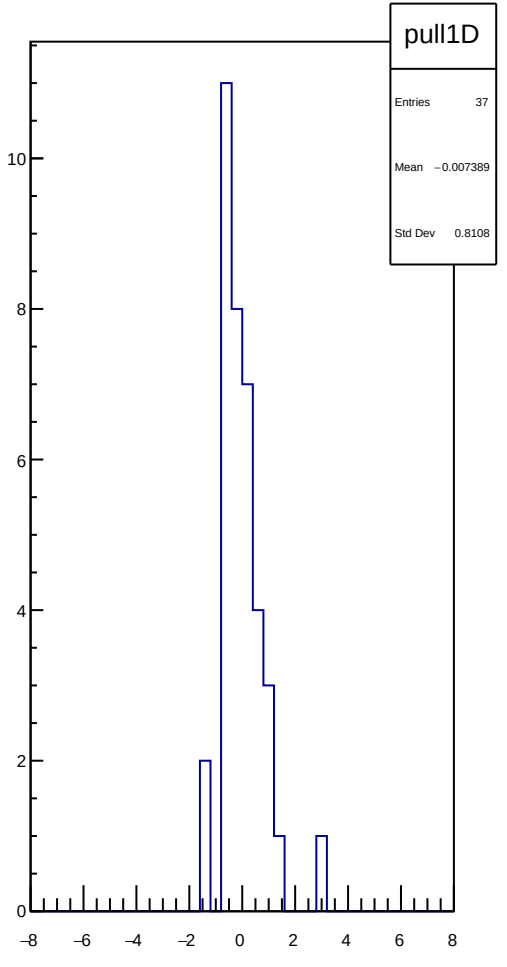

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 7967 / 36
p0 618 ± 0.7475
1100
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

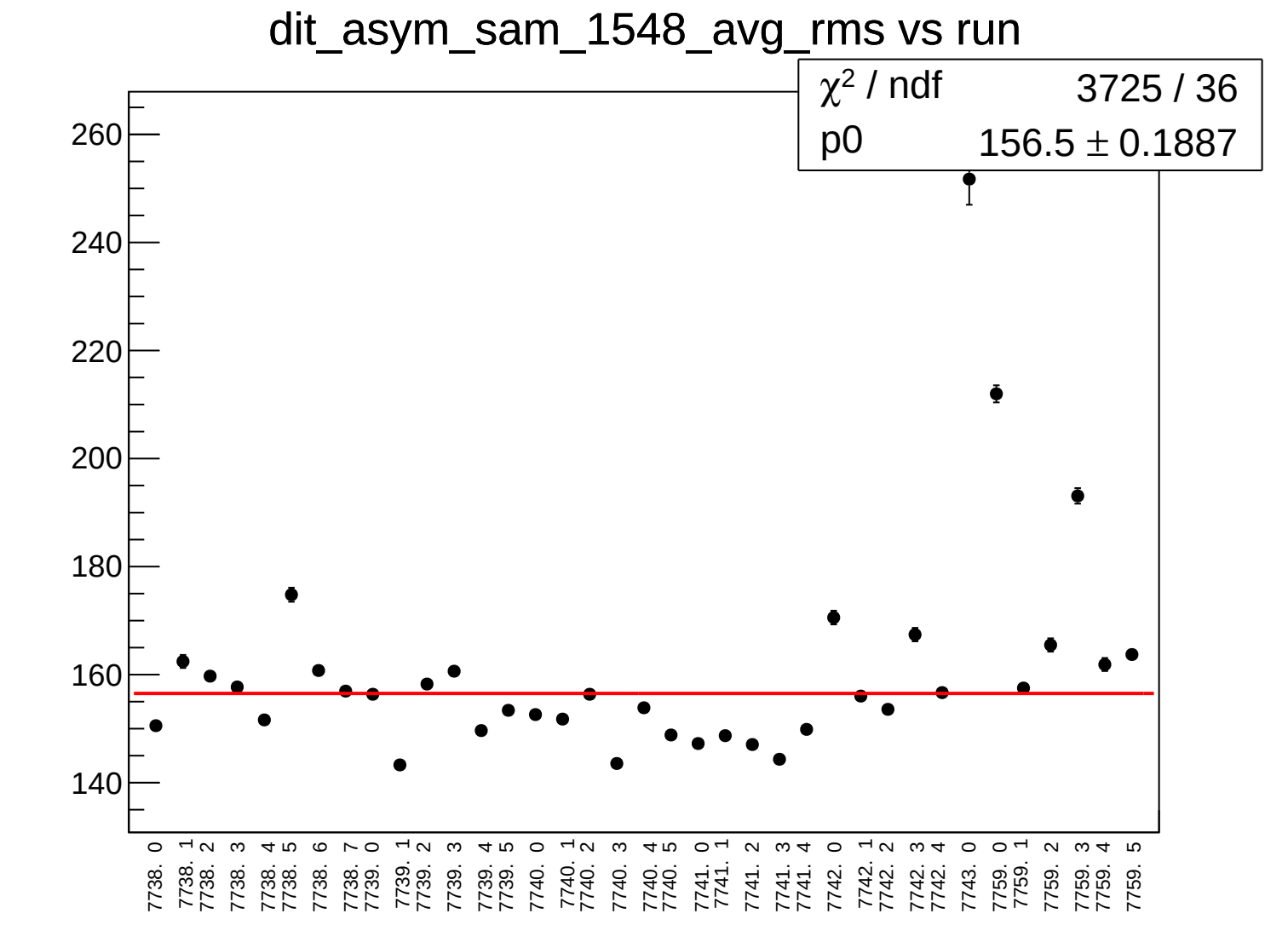

asym_sam_26_48_dd_mean vs run
χ² / ndf 43.13 / 36
p0 −591.2 ± 1095
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1.449e+04
Std Dev 1.451e+04
2
1
0
−1
−2

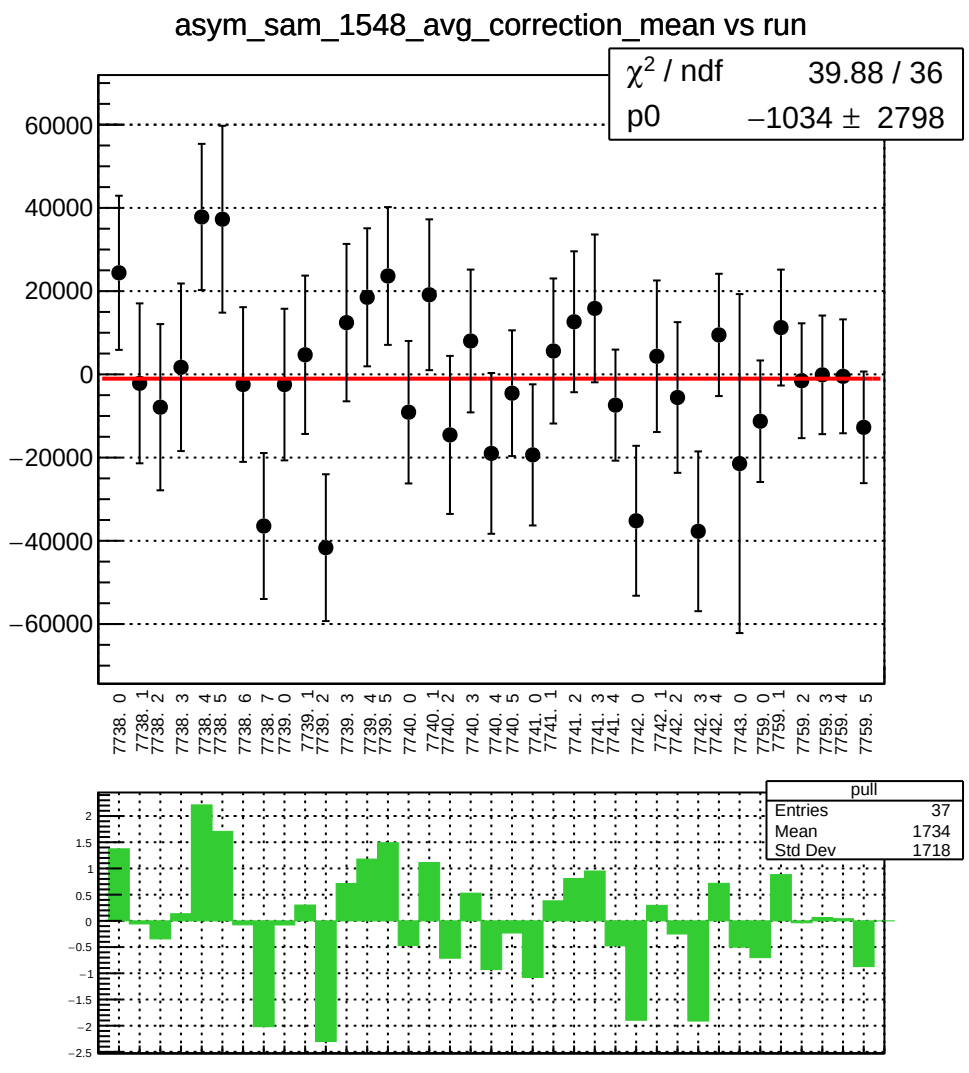

pull1D
Entries 37
Mean 0.0001538
Std Dev 1.08
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

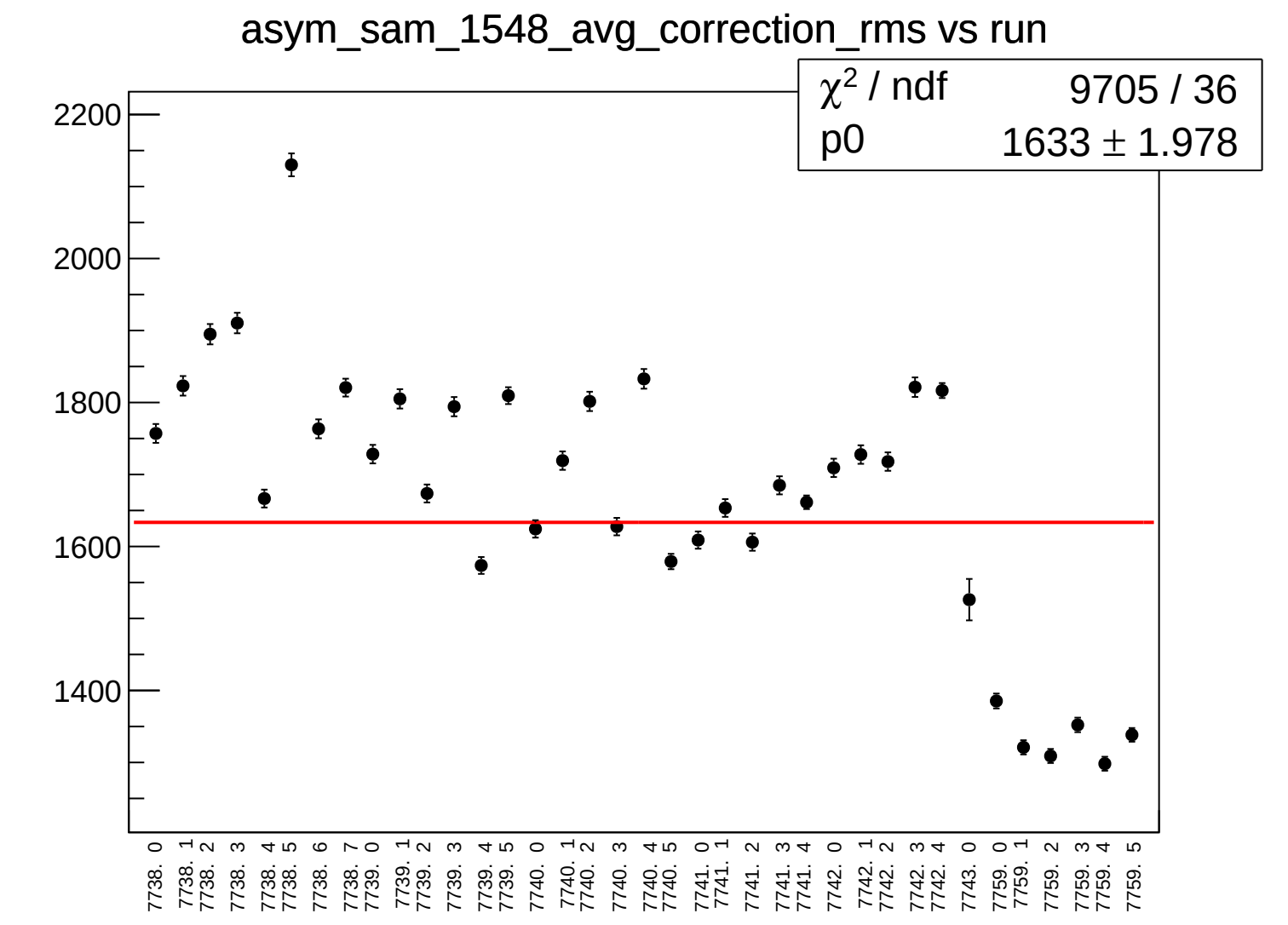

asym_sam_26_48_dd_rms vs run
χ² / ndf 4498 / 36
p0 641.6 ± 0.7741
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

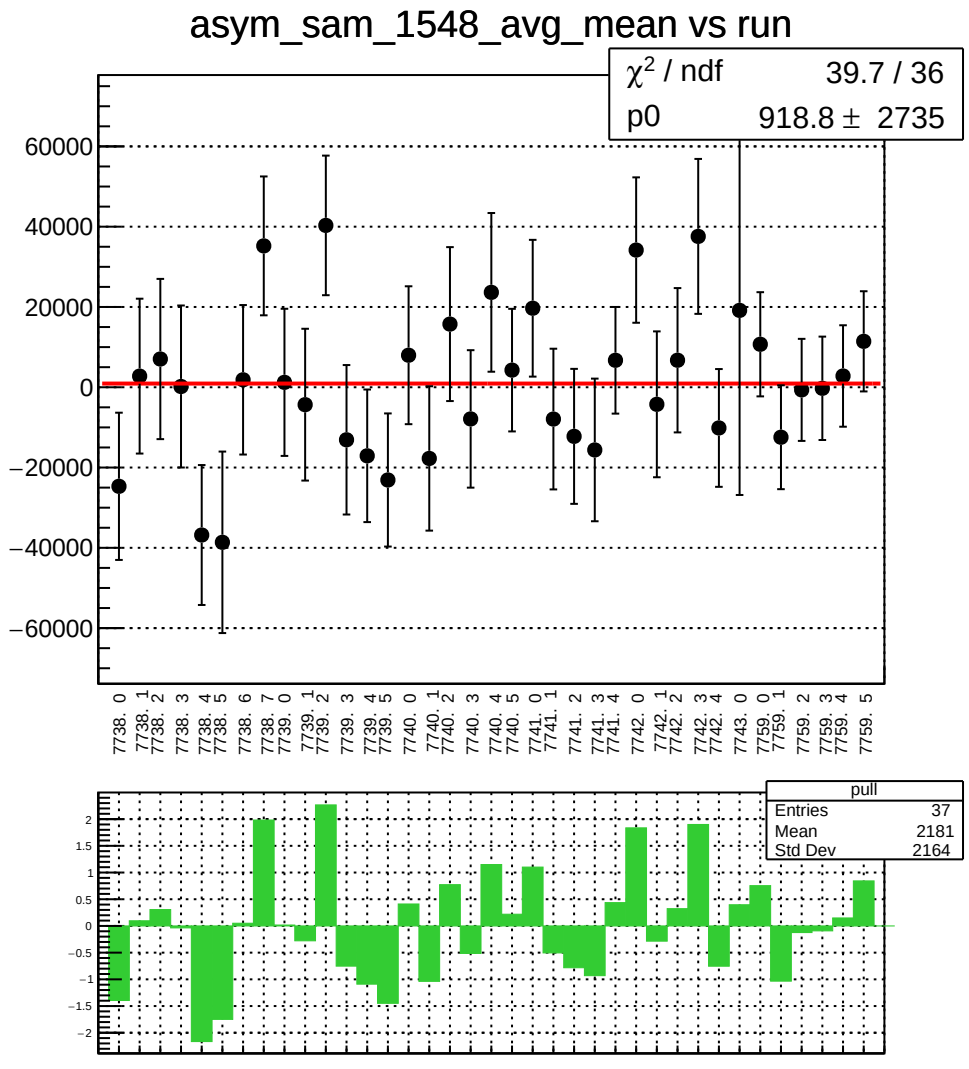

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 24.32 / 36
p0 −37.61 ± 266.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 136.5
Std Dev 110.8
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

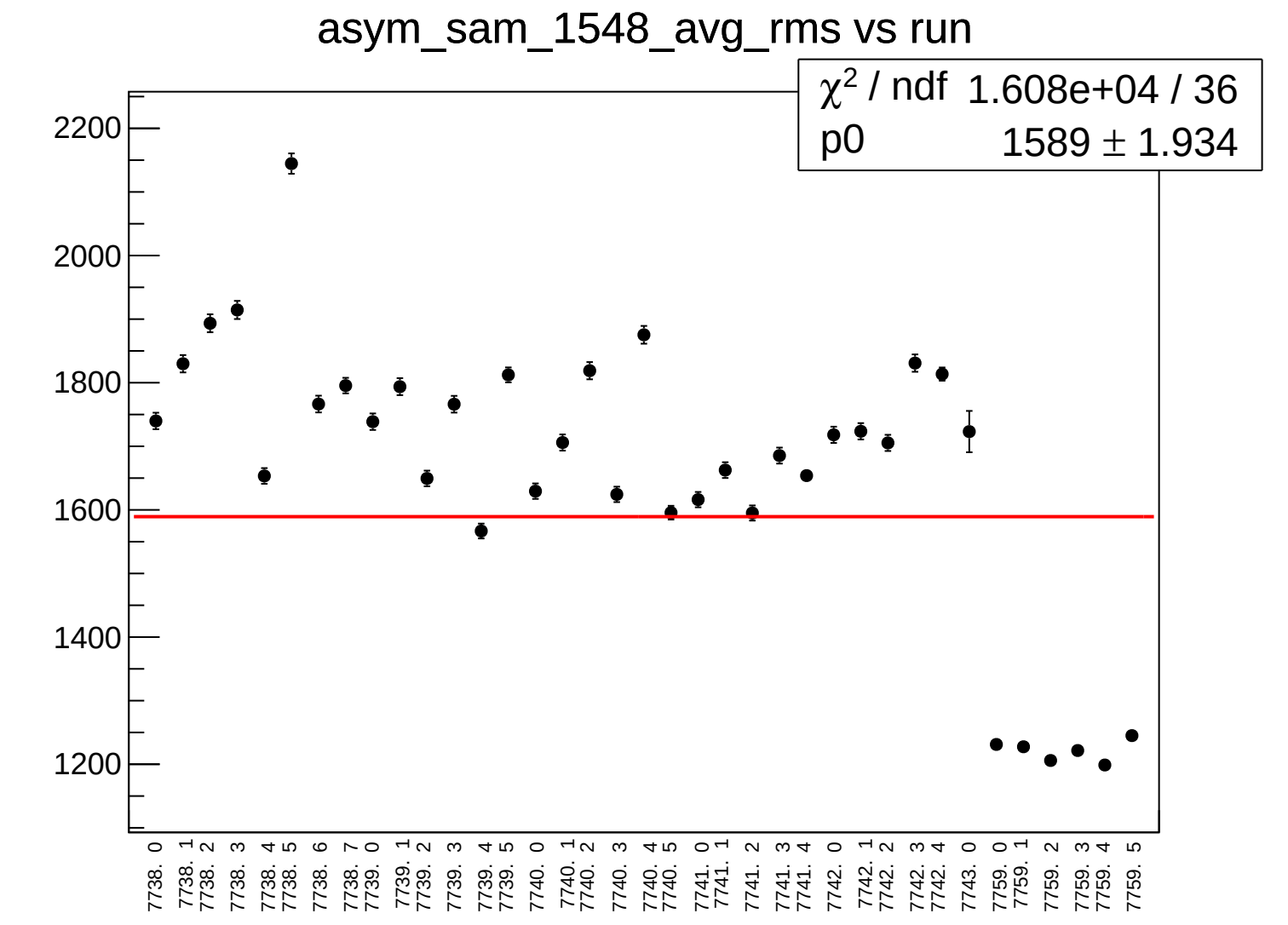

pull1D
Entries 37
Mean −0.007389
Std Dev 0.8108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

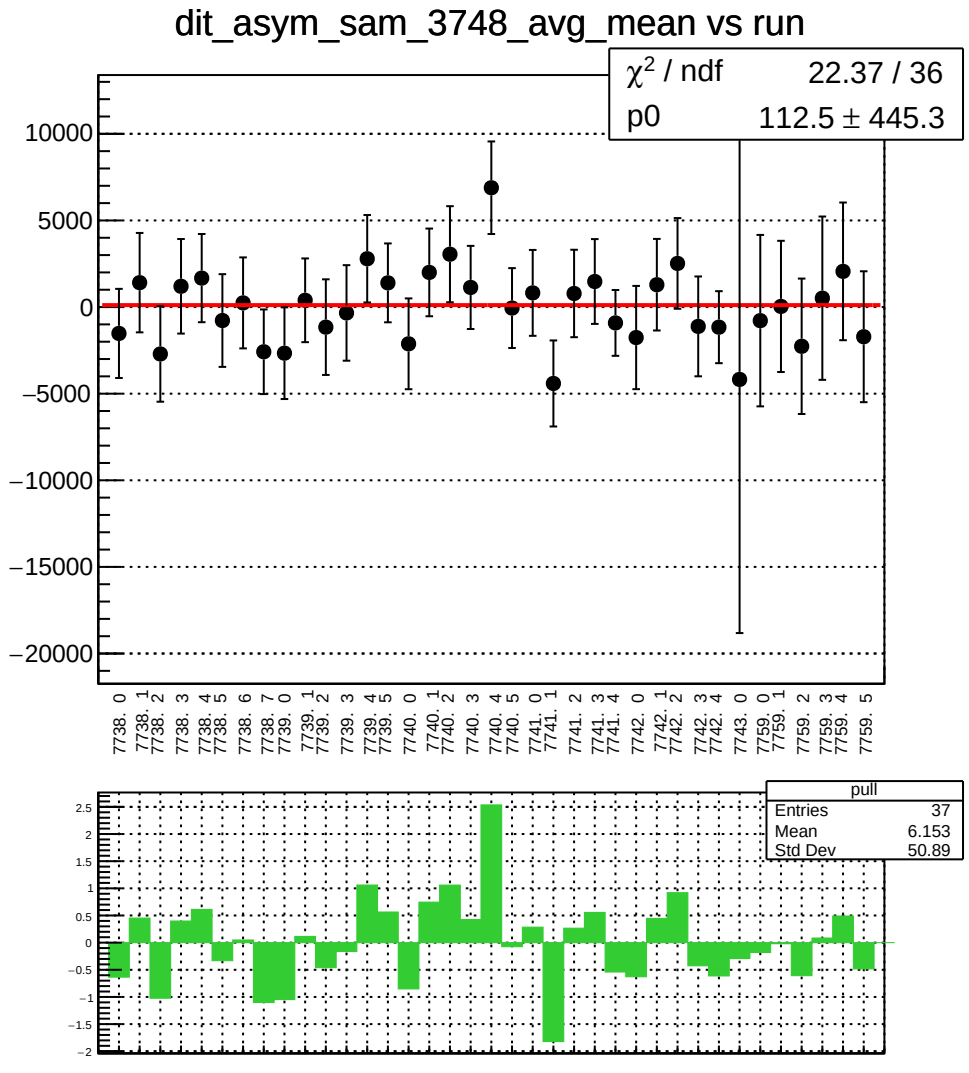

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 3725 / 36
p0 156.5 ± 0.1887
260
240
220
200
180
160
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

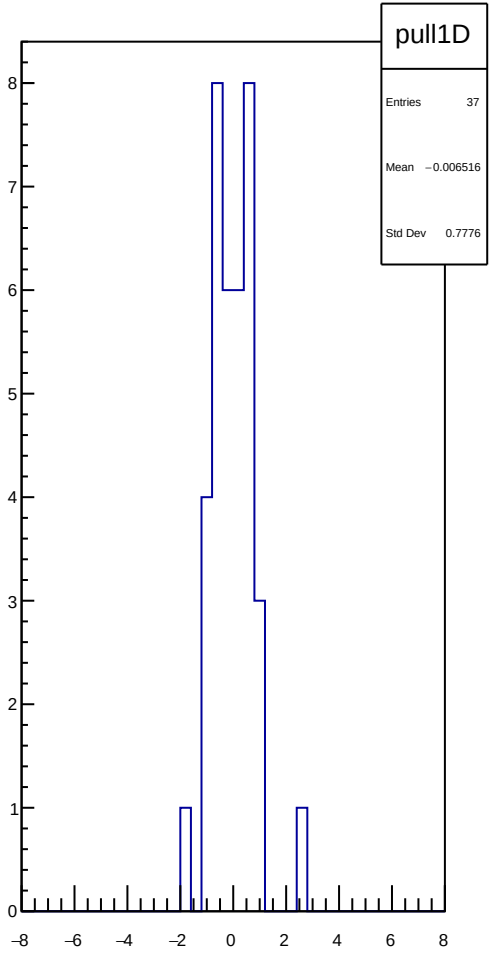

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 39.88 / 36
p0 −1034 ± 2798
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1734
Std Dev 1718
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean −0.001444
Std Dev 1.038
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

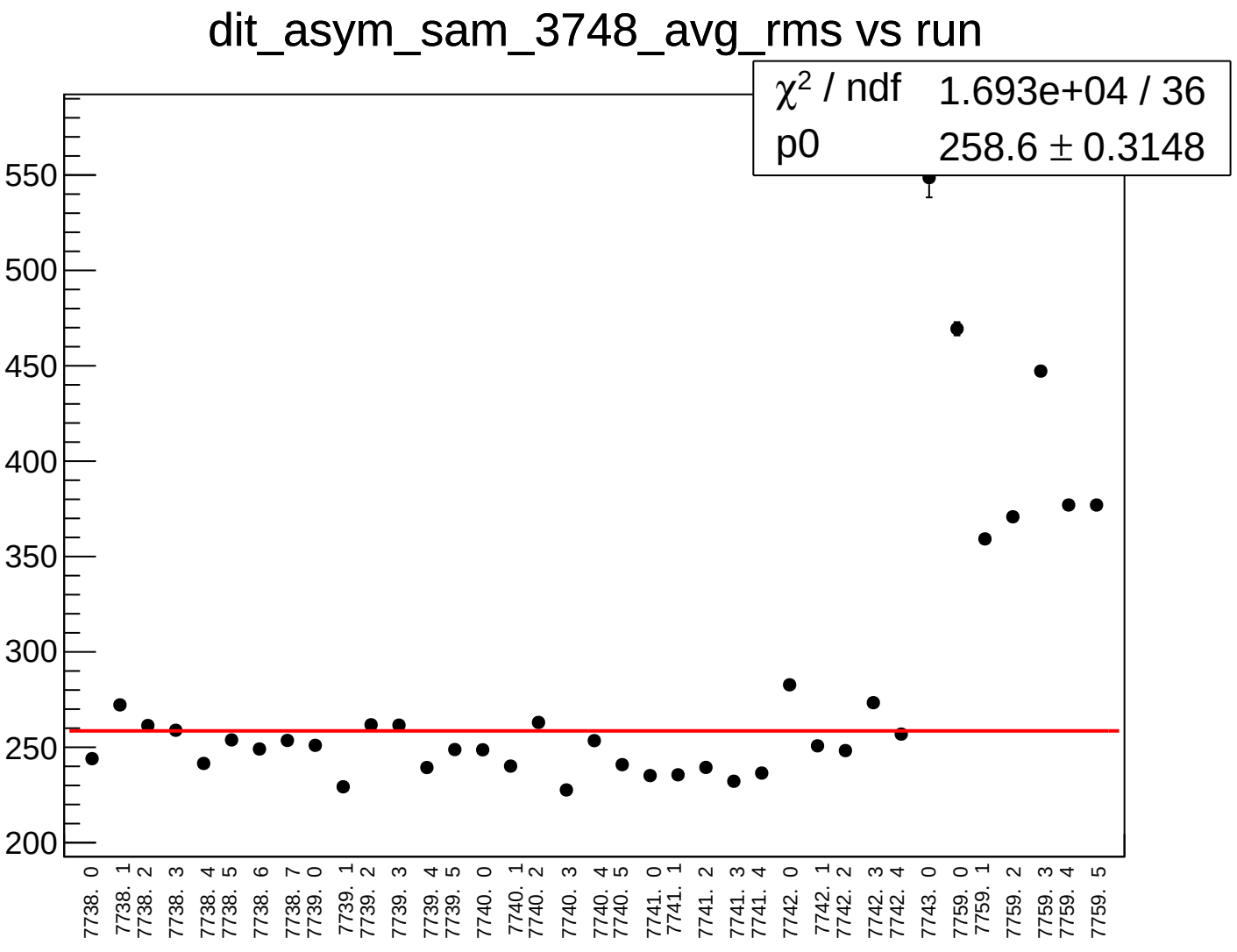

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 9705 / 36
p0 1633 ± 1.978
2200
2000
1800
1600
1400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

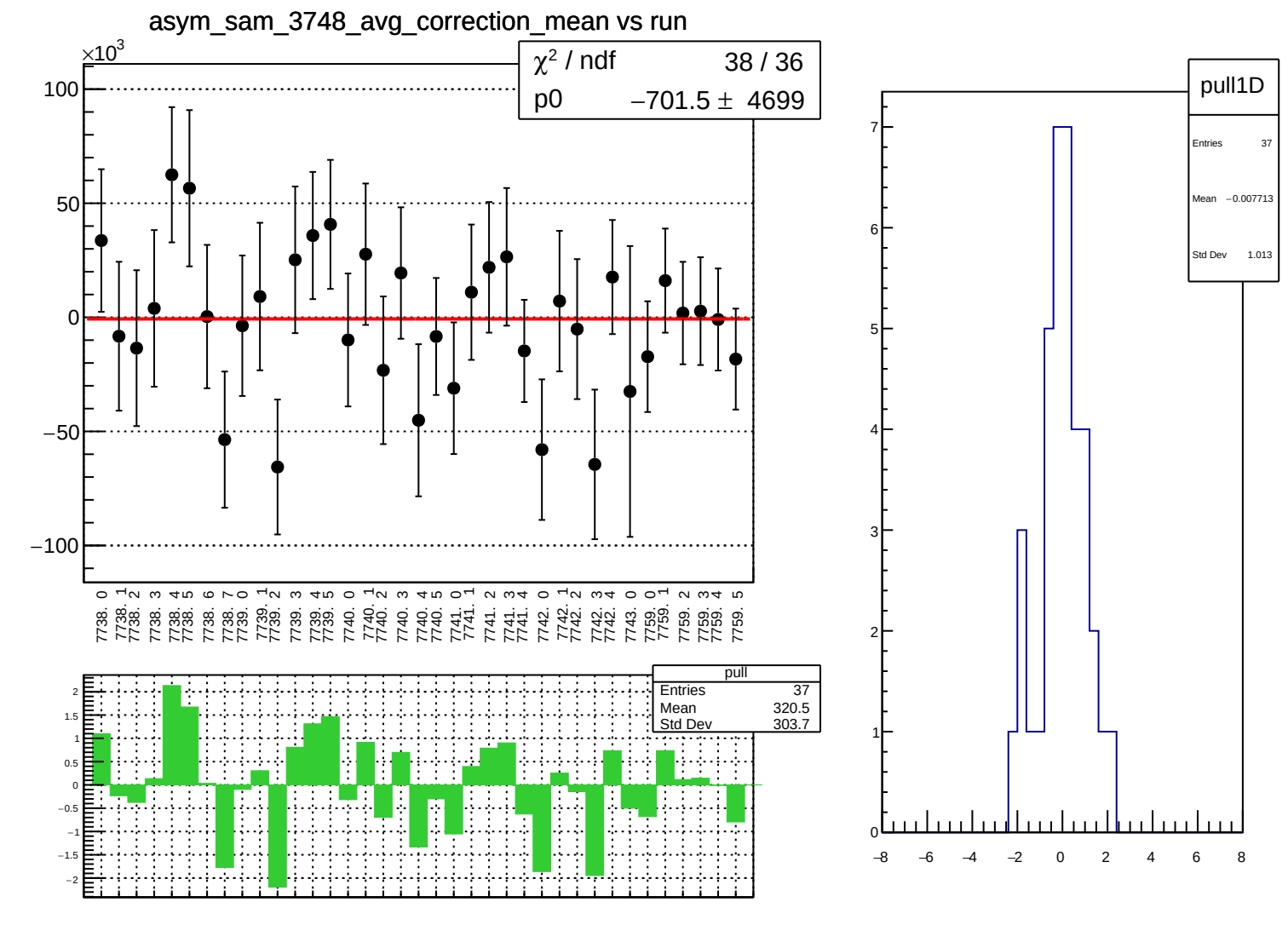

asym_sam_1548_avg_mean vs run
χ² / ndf 39.7 / 36
p0 918.8 ± 2735
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2181
Std Dev 2164
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.001098
Std Dev 1.036
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

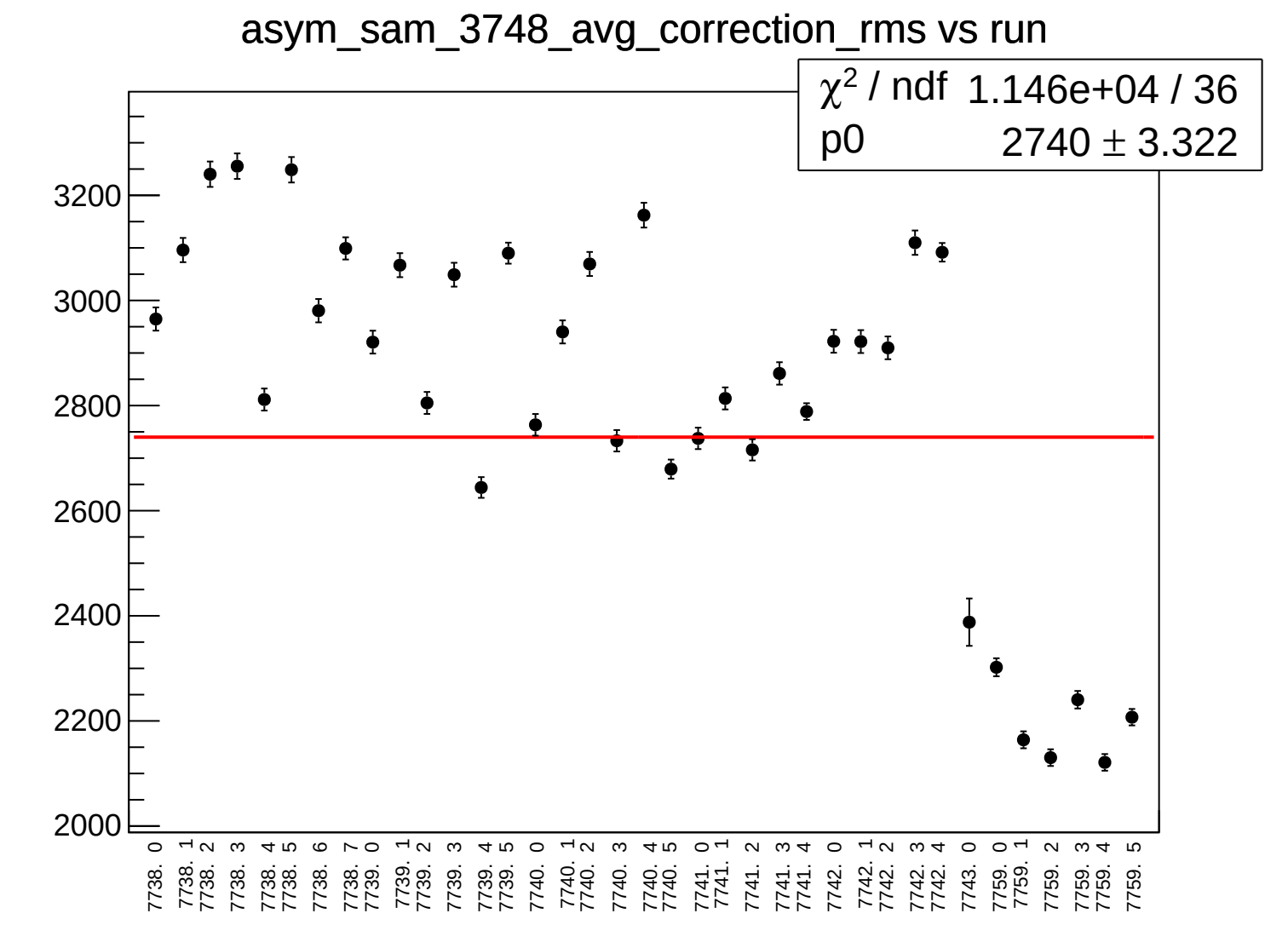

asym_sam_1548_avg_rms vs run
χ² / ndf 1.608e+04 / 36
p0 1589 ± 1.934
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

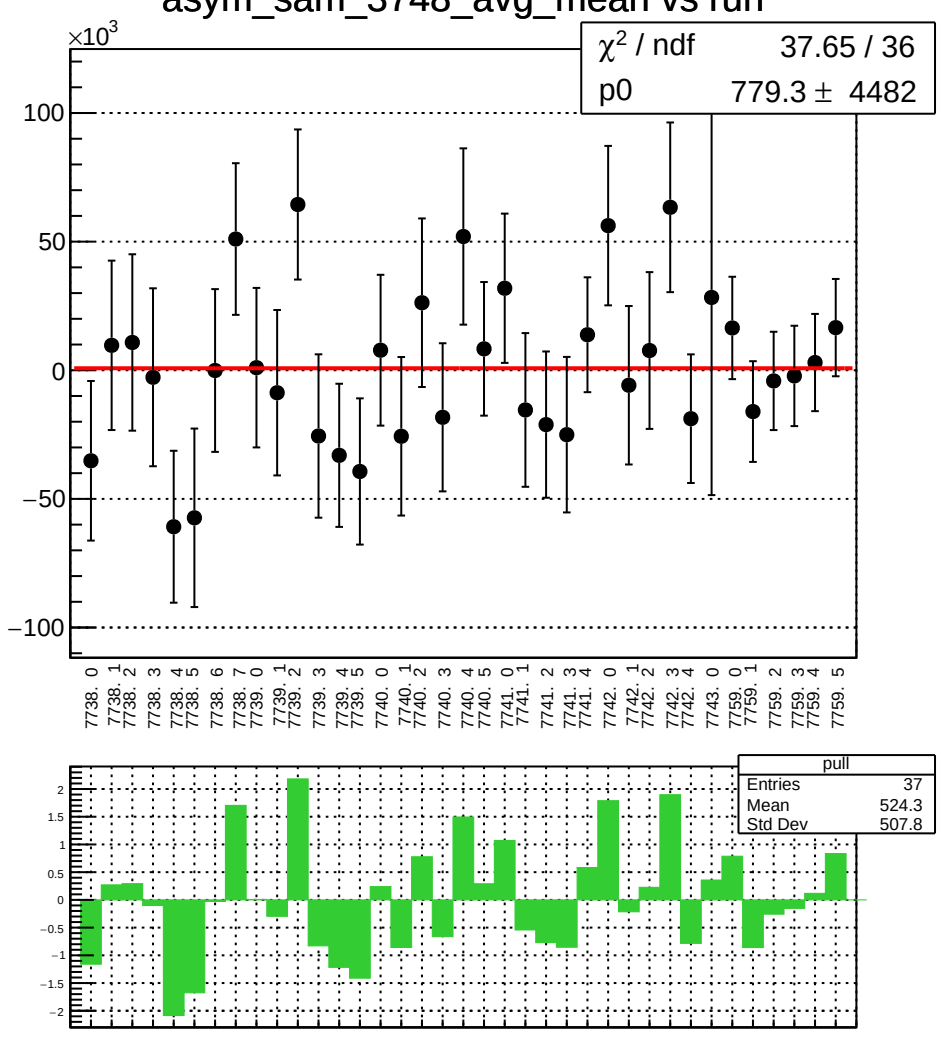

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 22.37 / 36
p0 112.5 ± 445.3
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 6.153
Std Dev 50.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

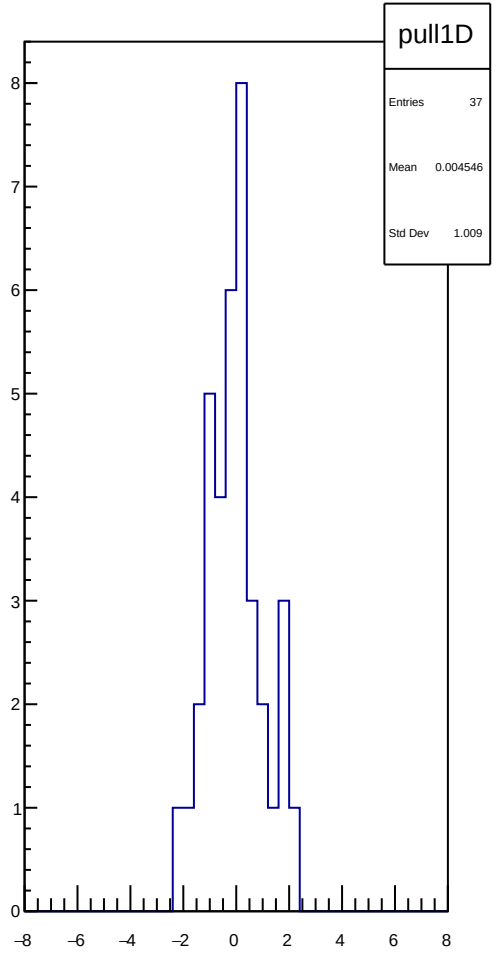

pull1D
Entries 37
Mean −0.006516
Std Dev 0.7776
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

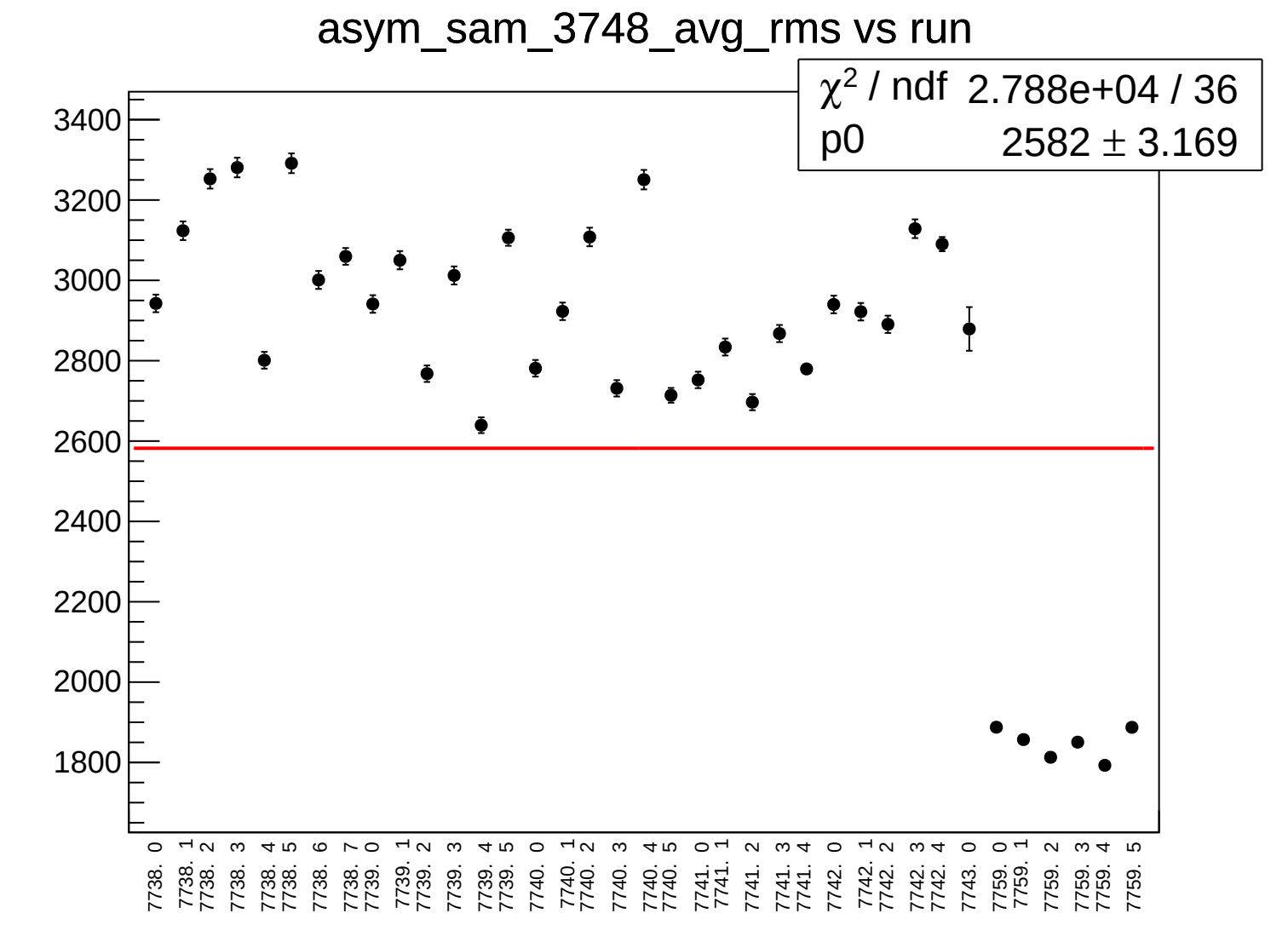

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.693e+04 / 36
p0 258.6 ± 0.3148
550
500
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

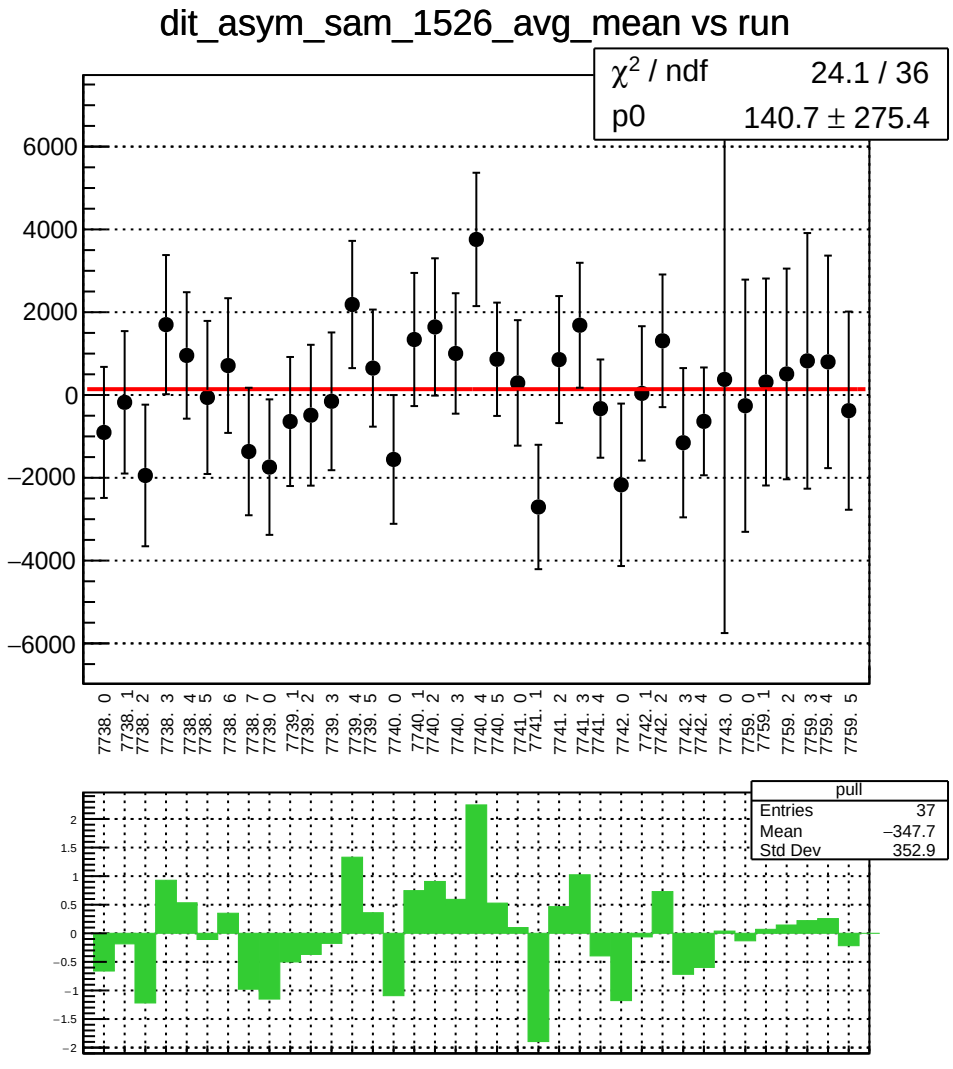

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 38 / 36
p0 −701.5 ± 4699
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 320.5
Std Dev 303.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.007713
Std Dev 1.013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

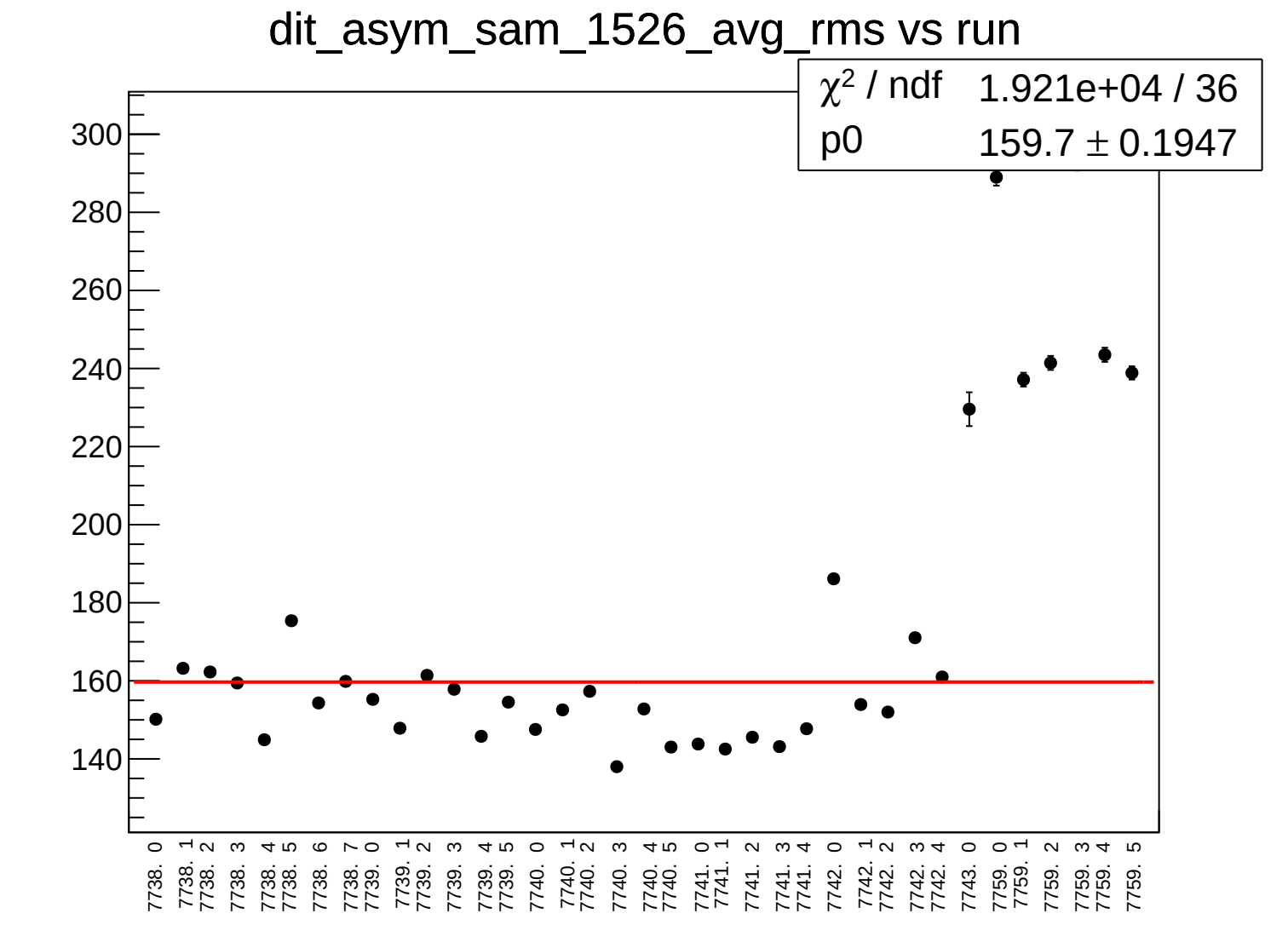

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 1.146e+04 / 36
p0 2740 ± 3.322
3200
3000
2800
2600
2400
2200
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

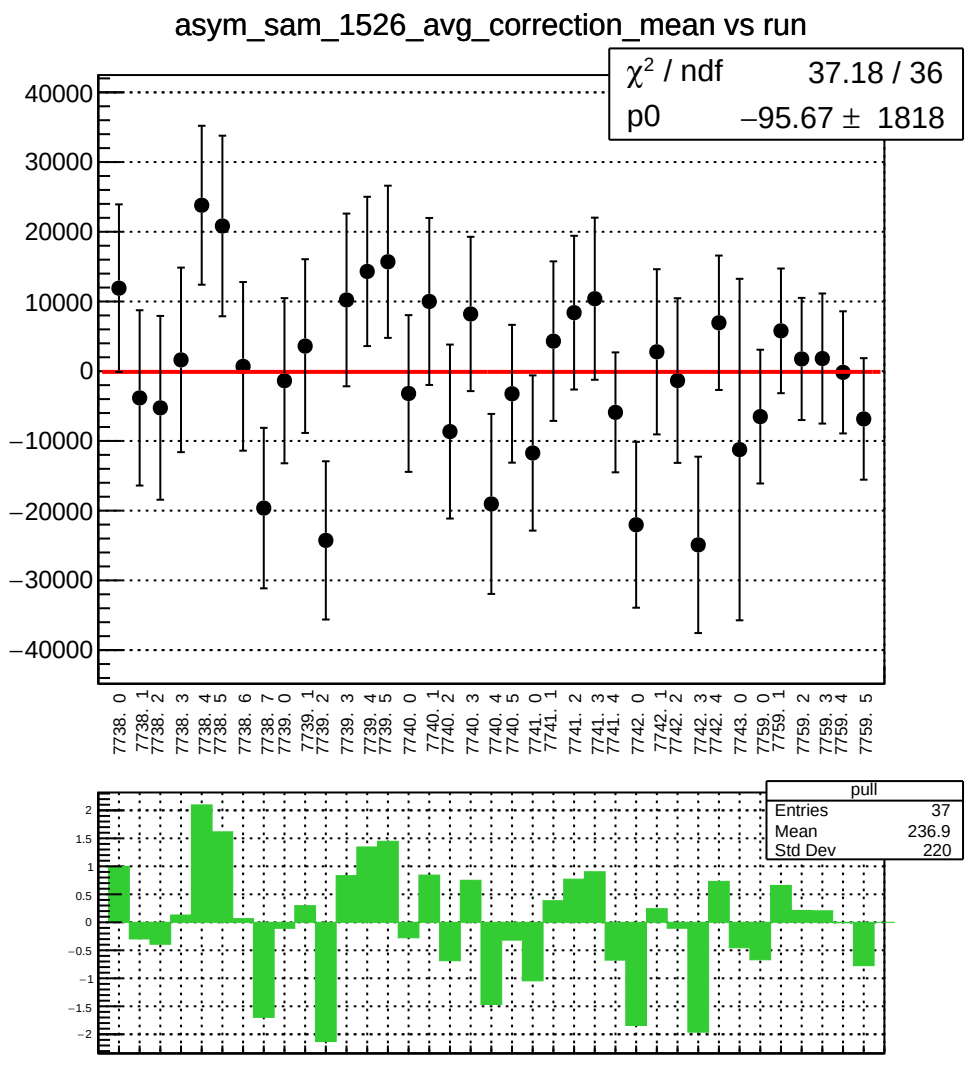

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 37.65 / 36
p0 779.3 ± 4482
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 524.3
Std Dev 507.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

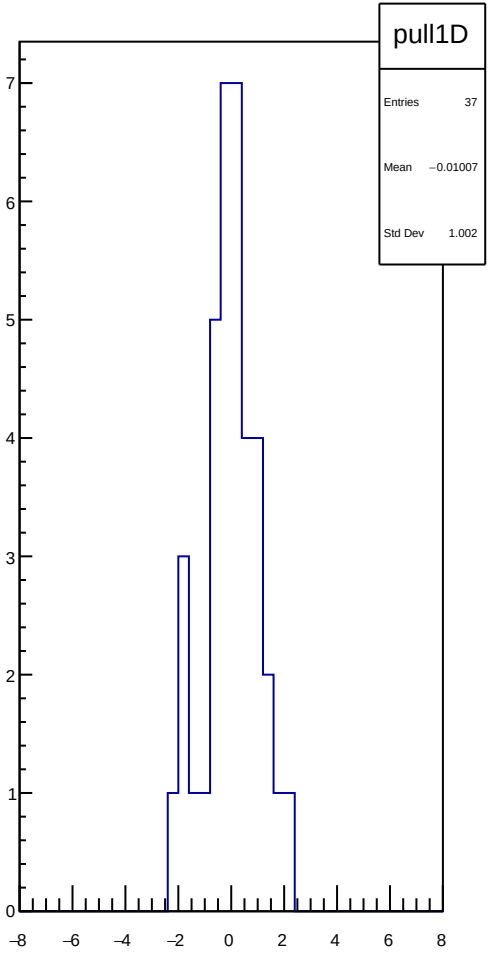

pull1D
Entries 37
Mean 0.004546
Std Dev 1.009
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

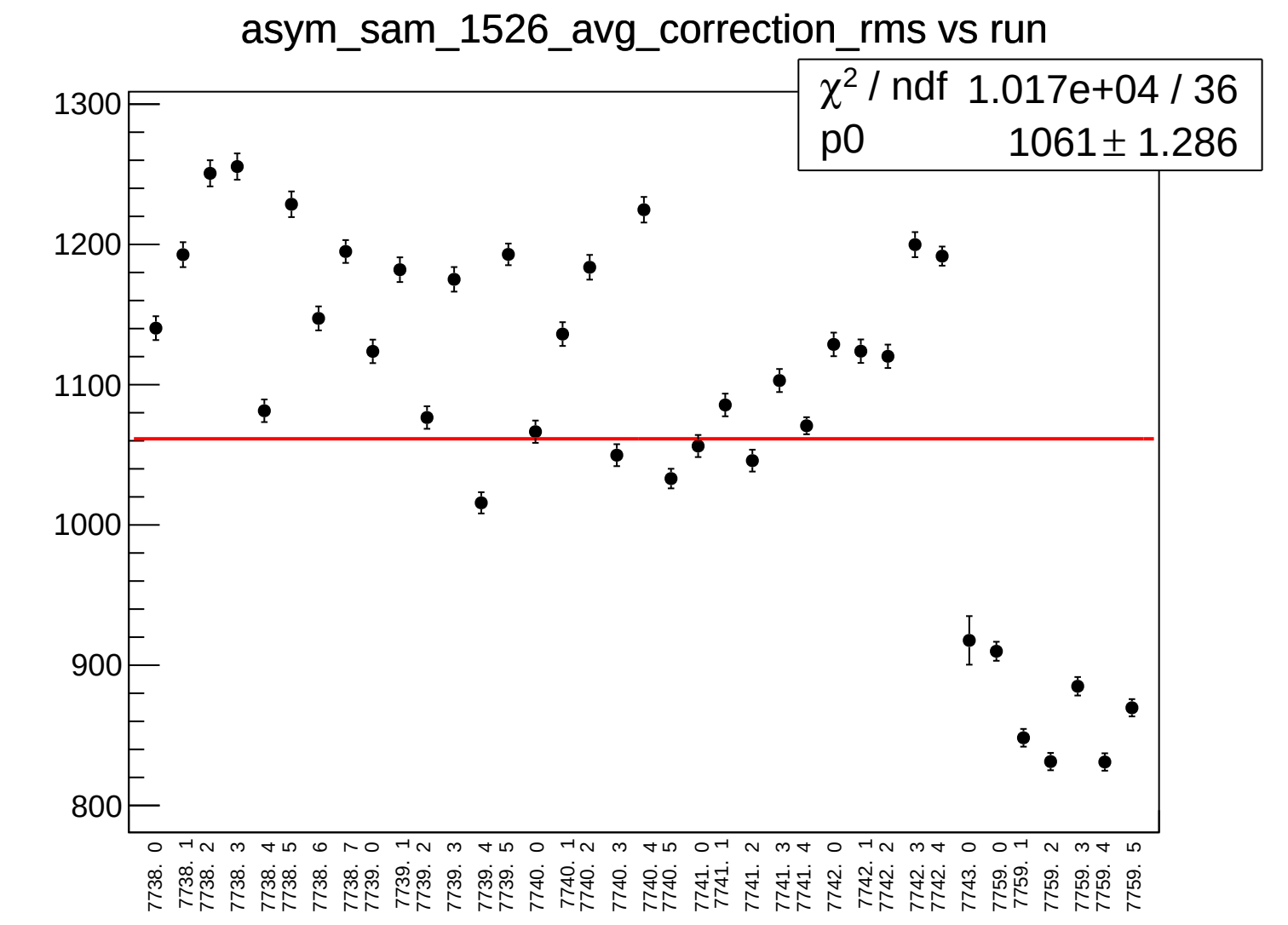

asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.788e+04 / 36
p0 2582 ± 3.169
3400
3200
3000
2800
2600
2400
2200
2000
1800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

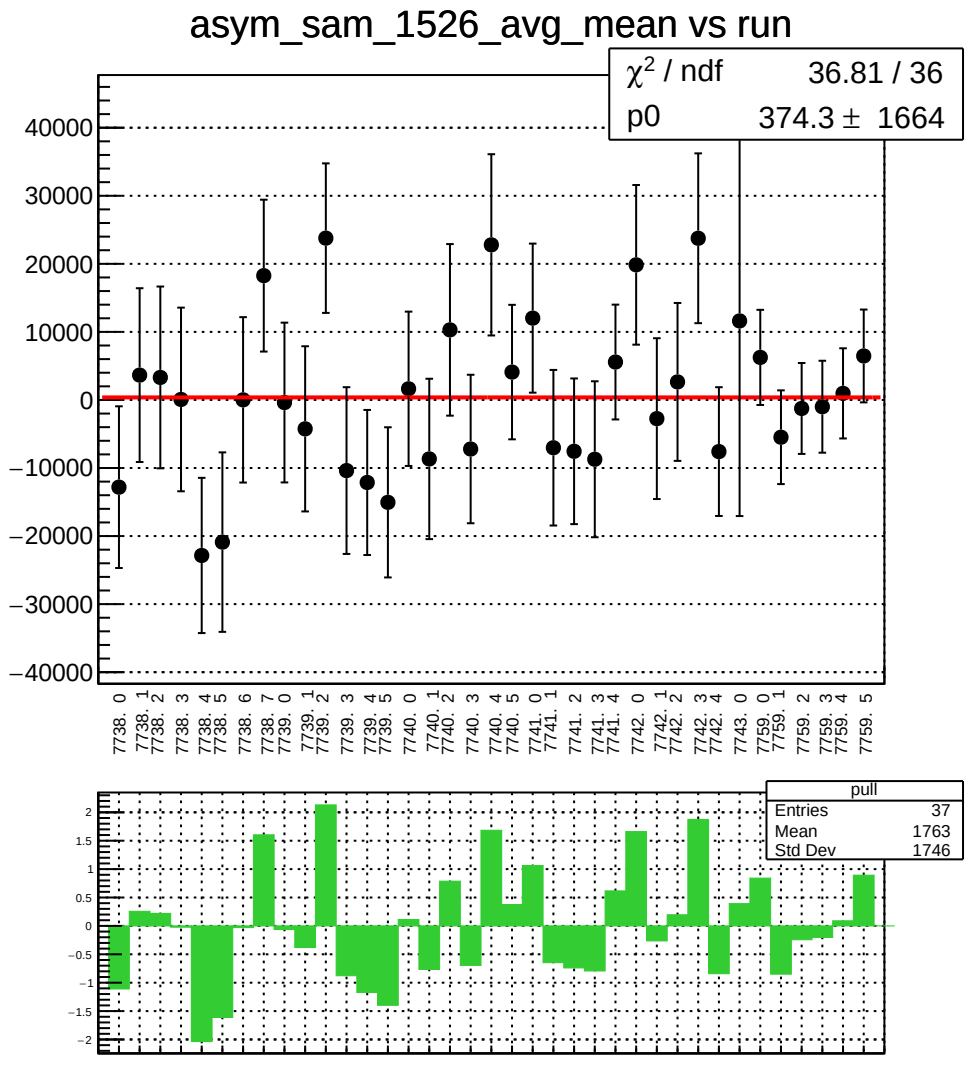

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 24.1 / 36
p0 140.7 ± 275.4
6000
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −347.7
Std Dev 352.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.001539
Std Dev 0.807
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

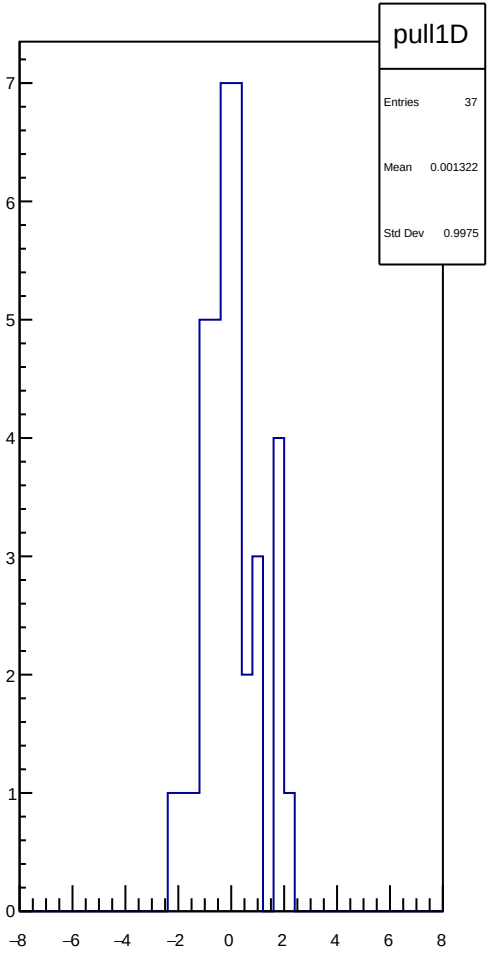

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.921e+04 / 36
p0 159.7 ± 0.1947
300
280
260
240
220
200
180
160
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

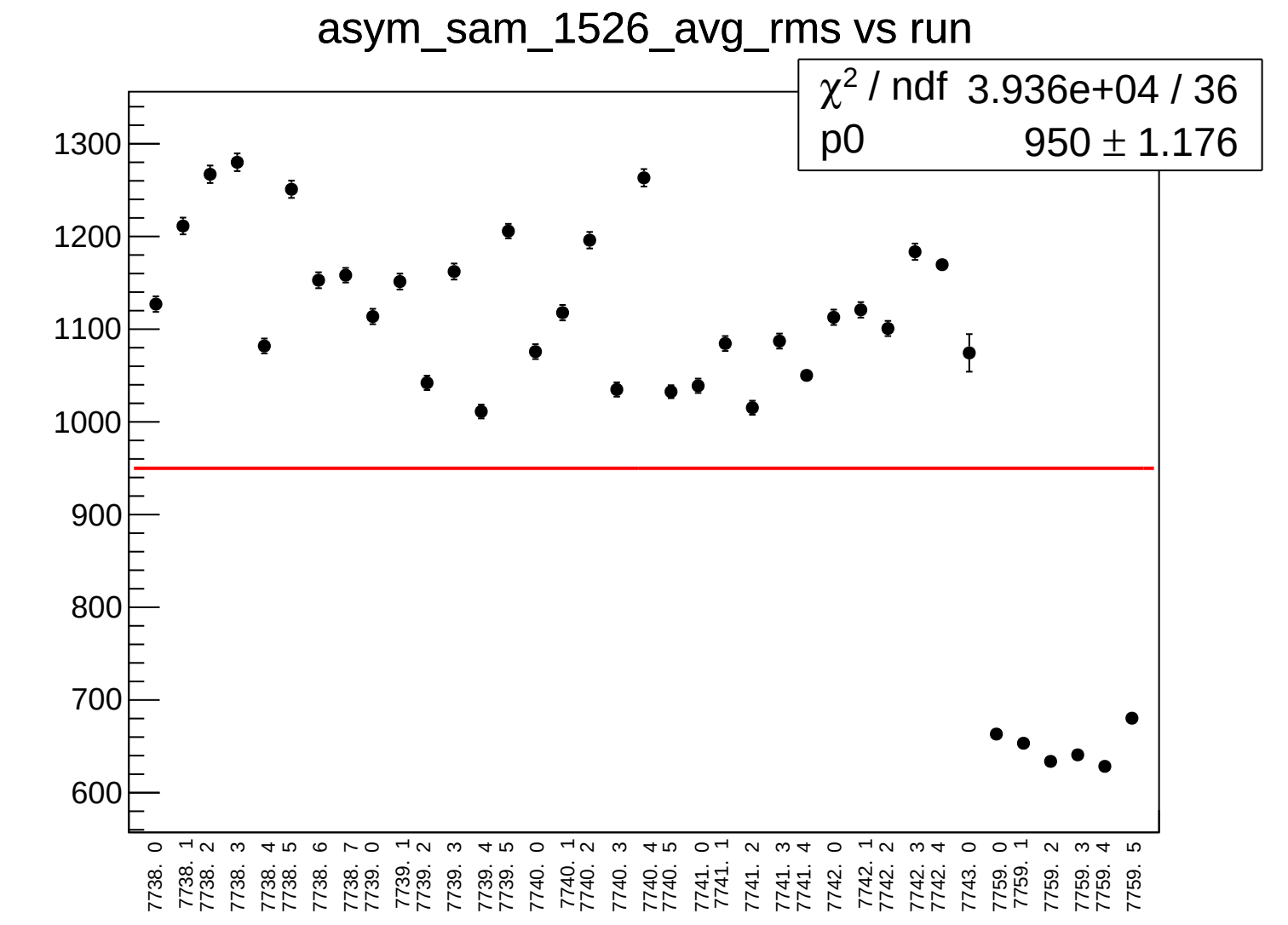

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 37.18 / 36
p0 −95.67 ± 1818
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 236.9
Std Dev 220
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

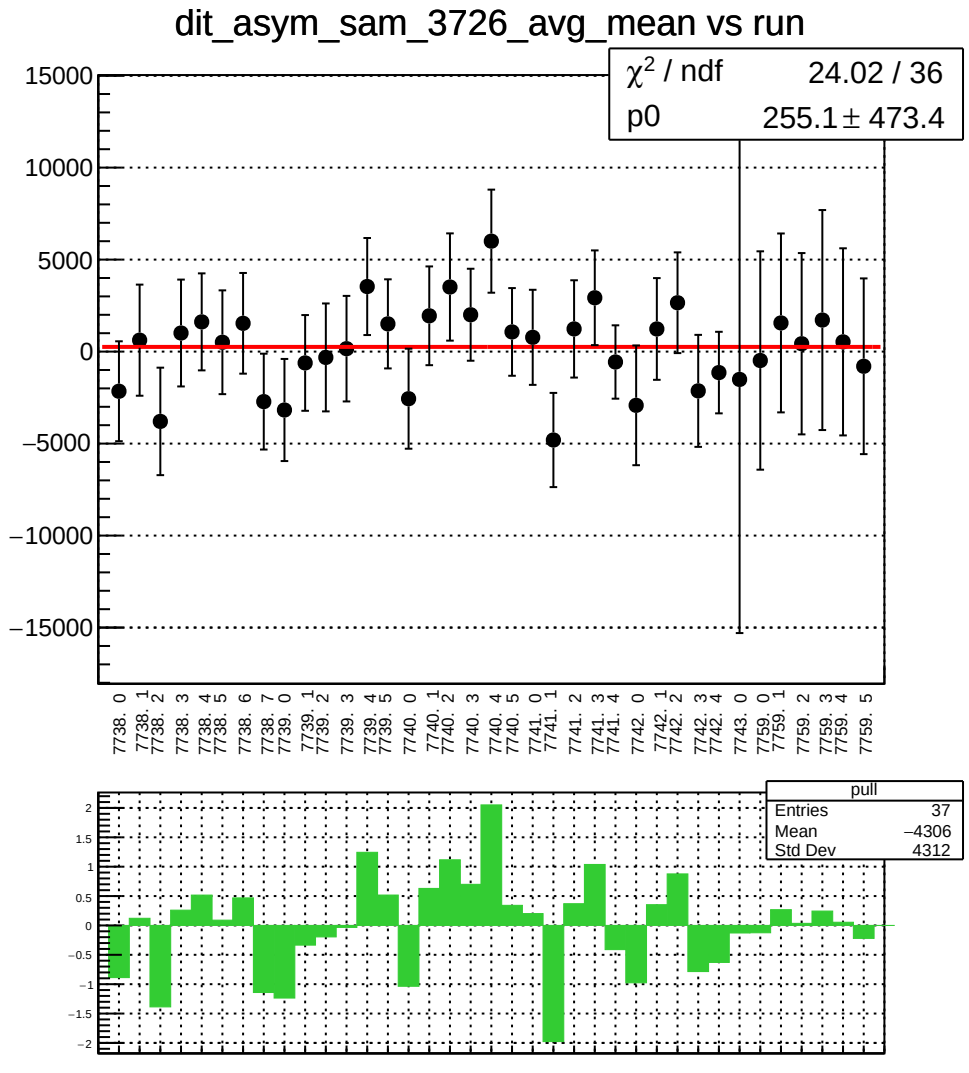

pull1D
Entries 37
Mean −0.01007
Std Dev 1.002
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

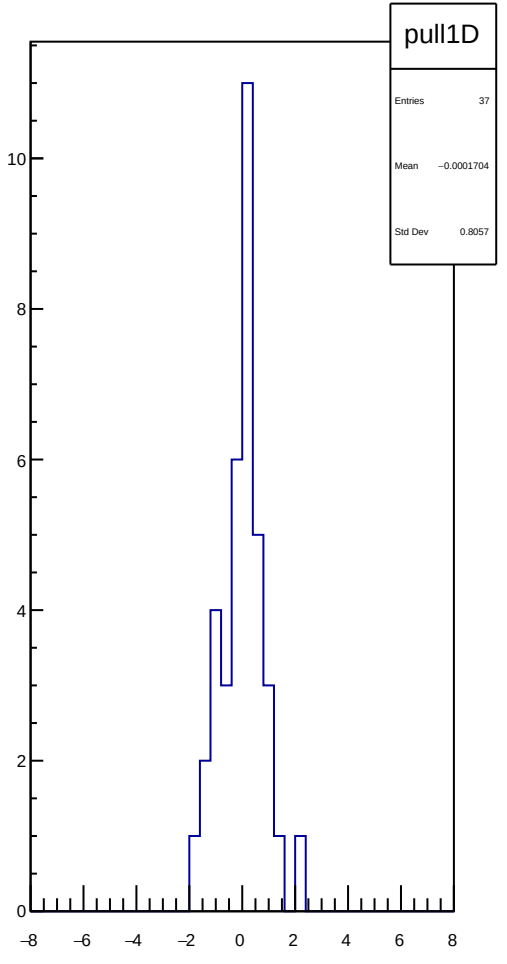

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 1.017e+04 / 36
p0 1061 ± 1.286
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

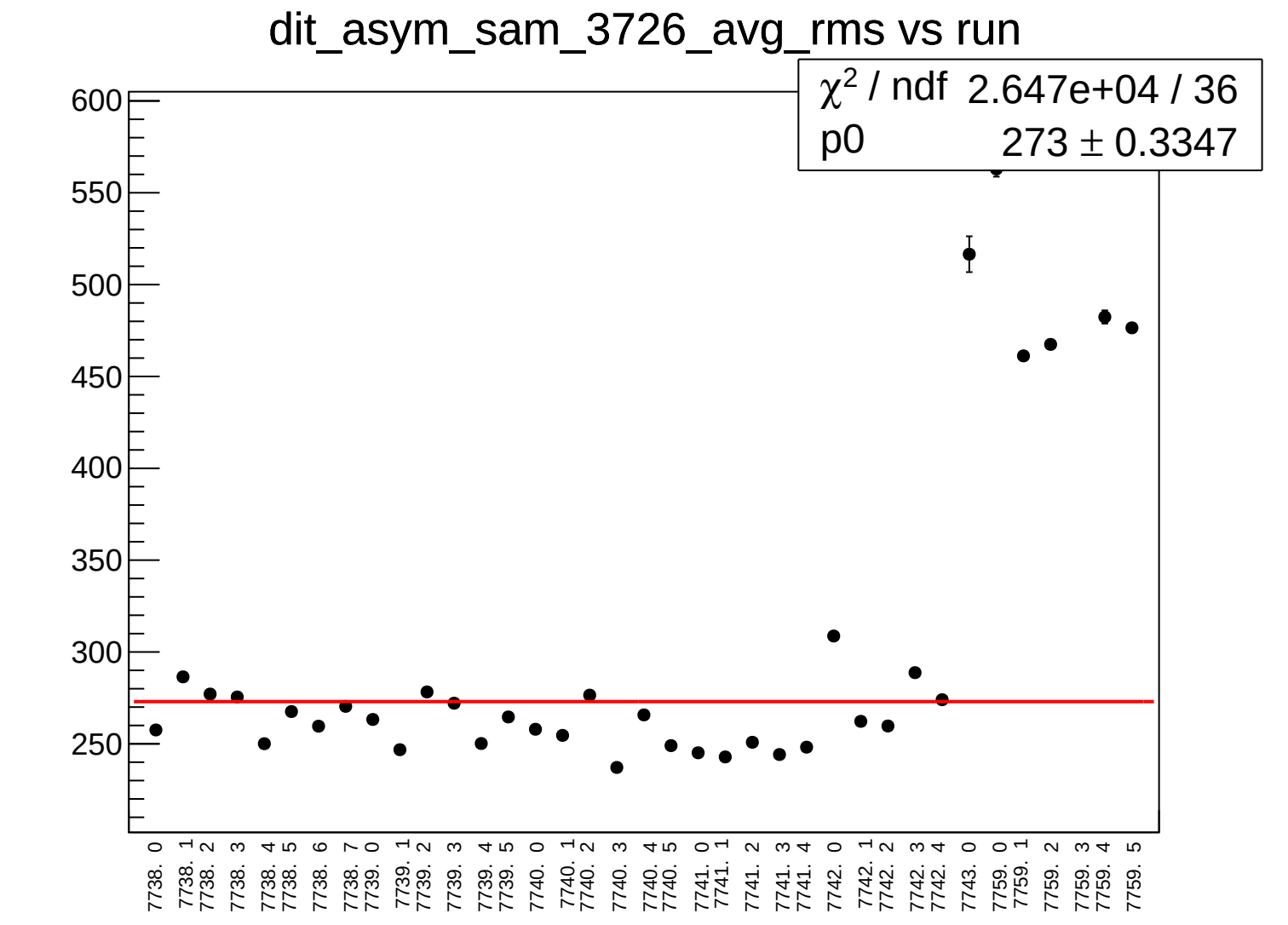

asym_sam_1526_avg_mean vs run
χ² / ndf 36.81 / 36
p0 374.3 ± 1664
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1763
Std Dev 1746
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

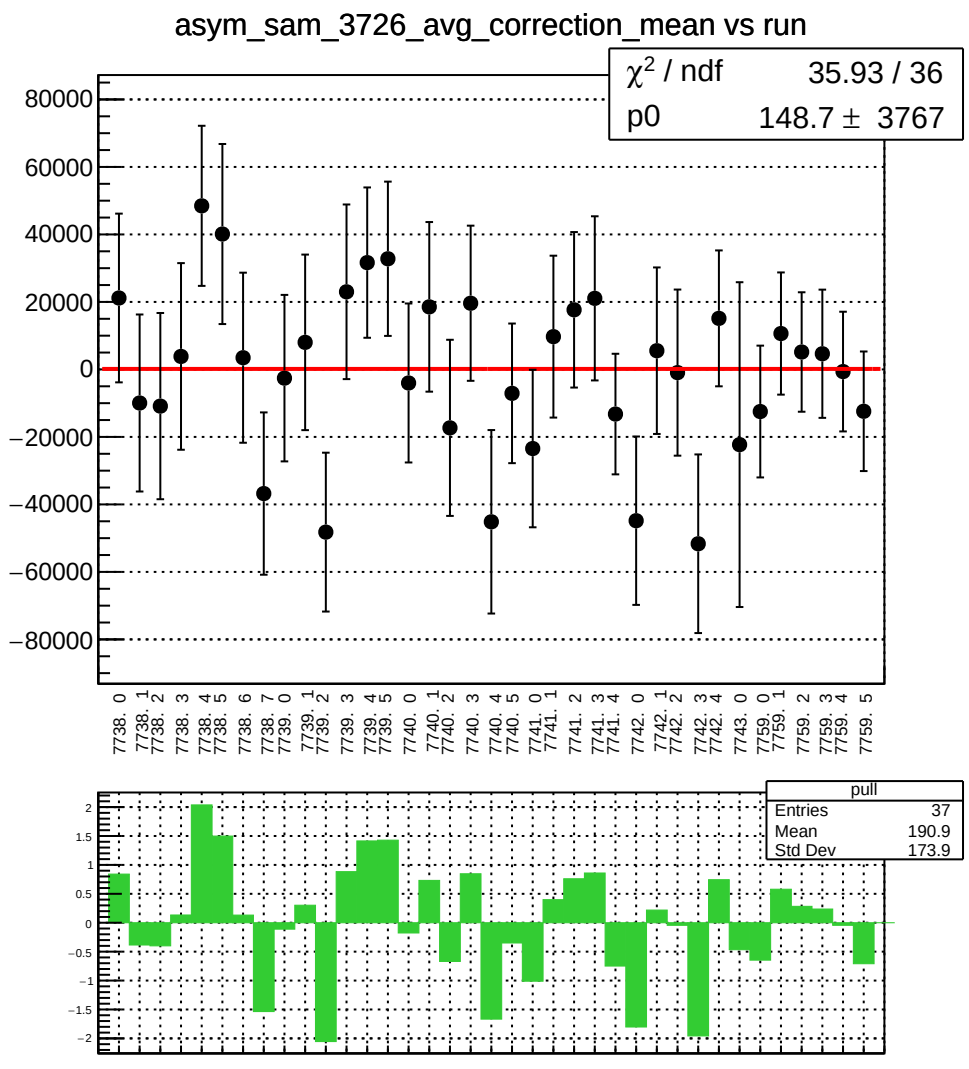

pull1D
Entries 37
Mean 0.001322
Std Dev 0.9975
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

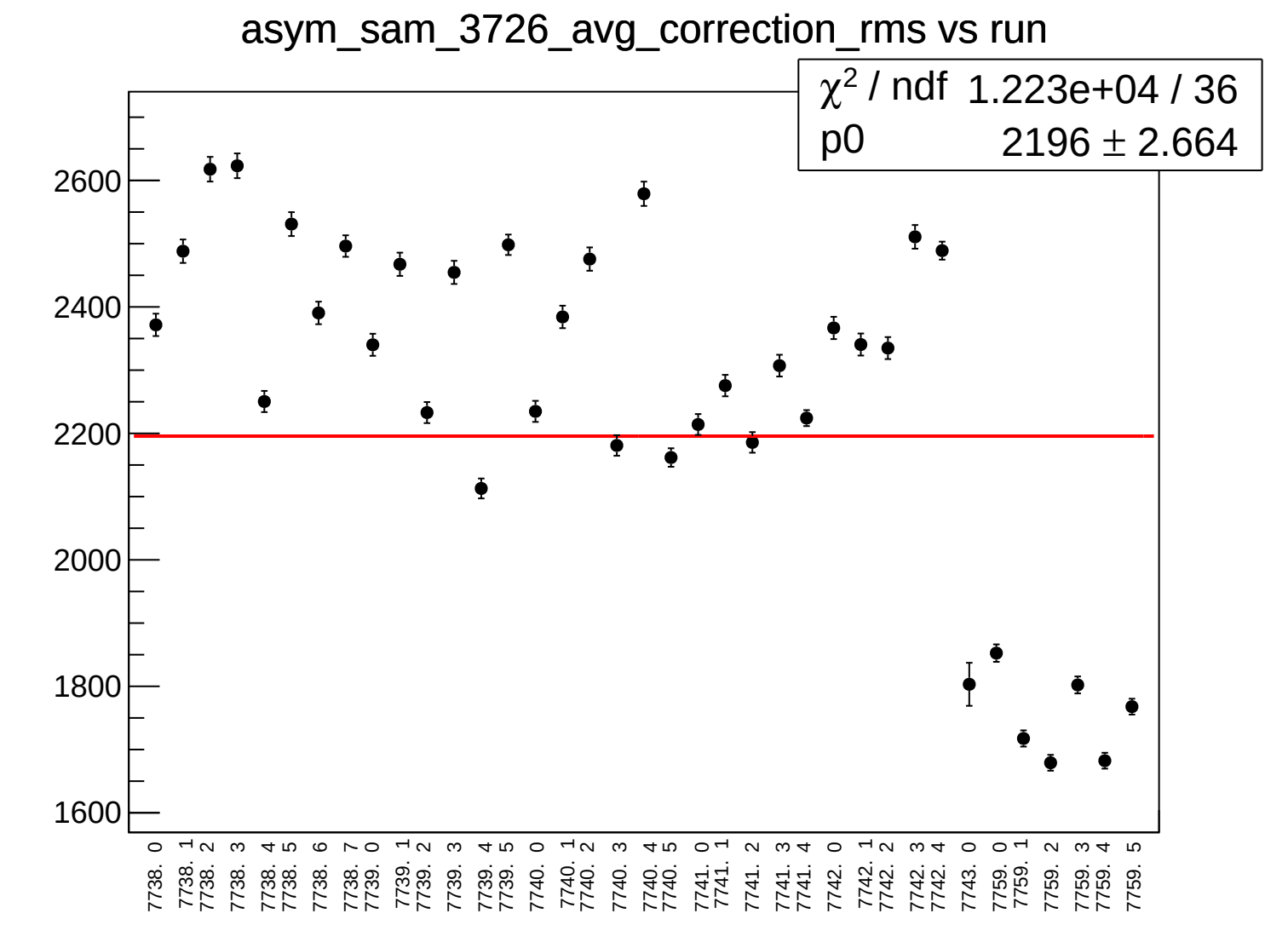

asym_sam_1526_avg_rms vs run
χ² / ndf 3.936e+04 / 36
p0 950 ± 1.176
1300
1200
1100
1000
900
800
700
600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

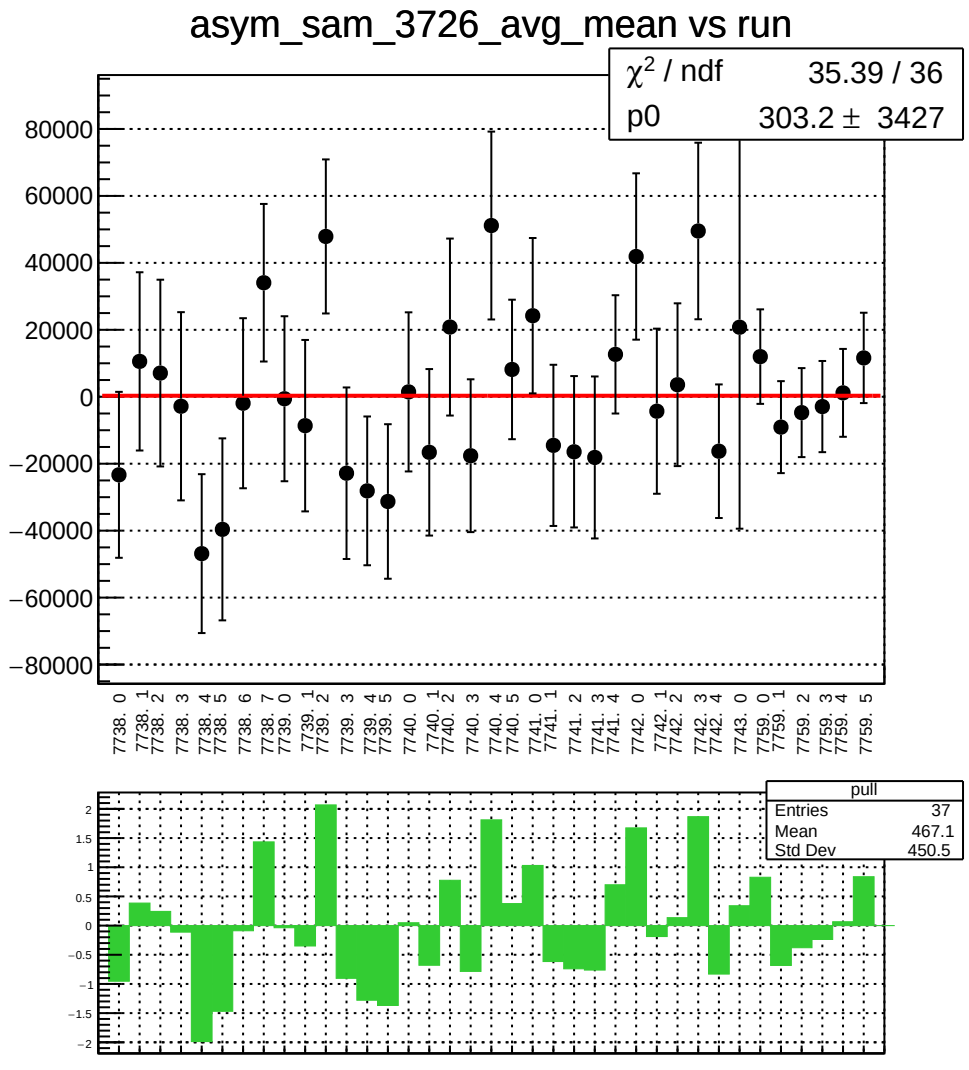

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 24.02 / 36
p0 255.1 ± 473.4
15000
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4306
Std Dev 4312
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

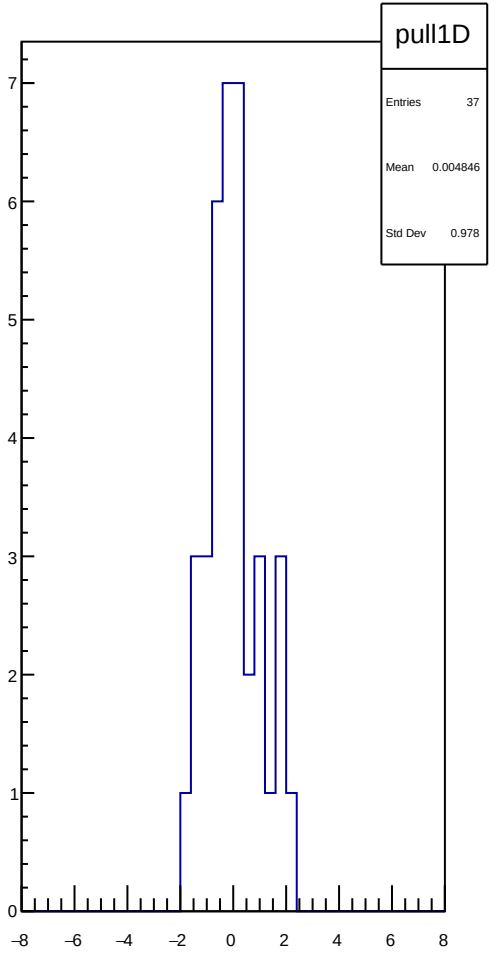

pull1D
Entries 37
Mean −0.0001704
Std Dev 0.8057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

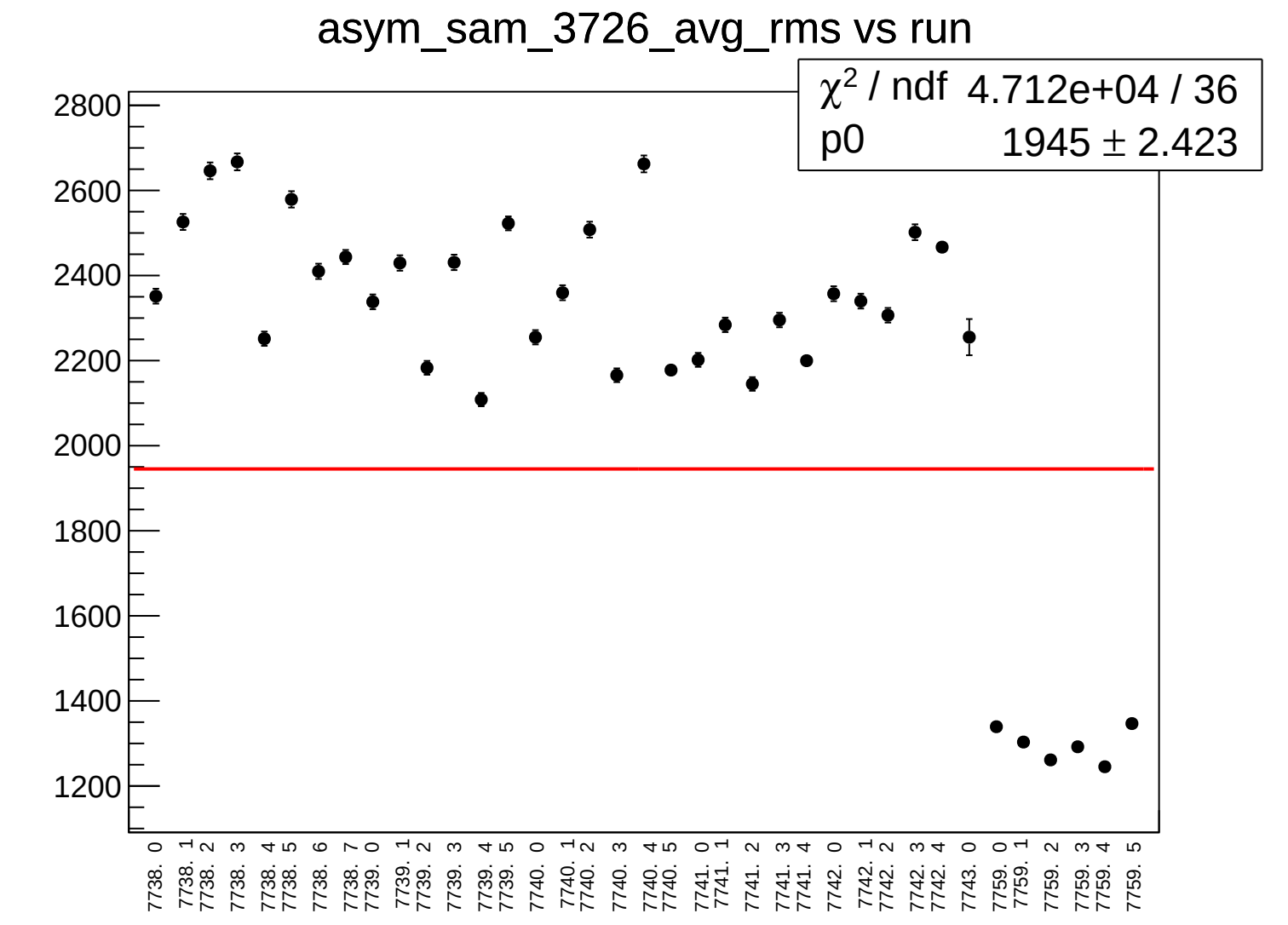

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.647e+04 / 36
p0 273 ± 0.3347
600
550
500
450
400
350
300
250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

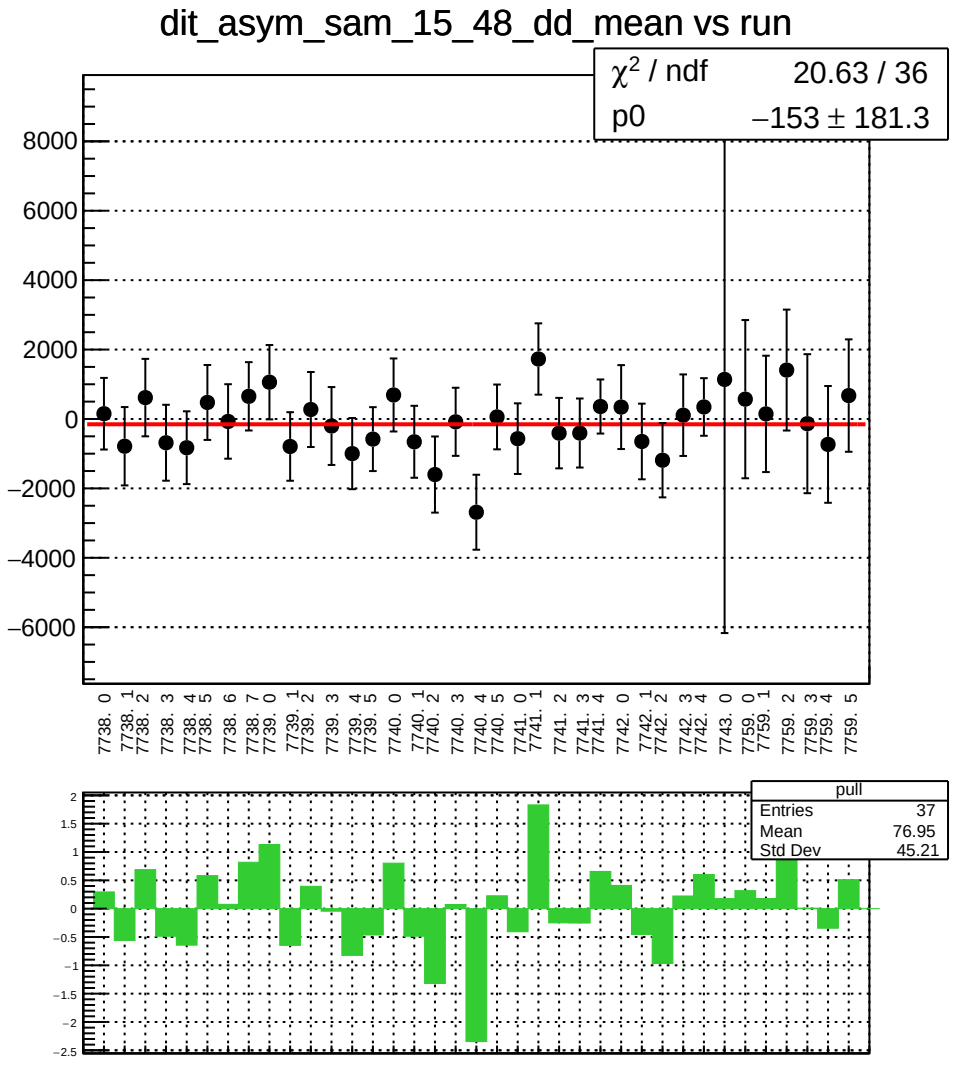

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 35.93 / 36
p0 148.7 ± 3767
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 190.9
Std Dev 173.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01211
Std Dev 0.9854
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

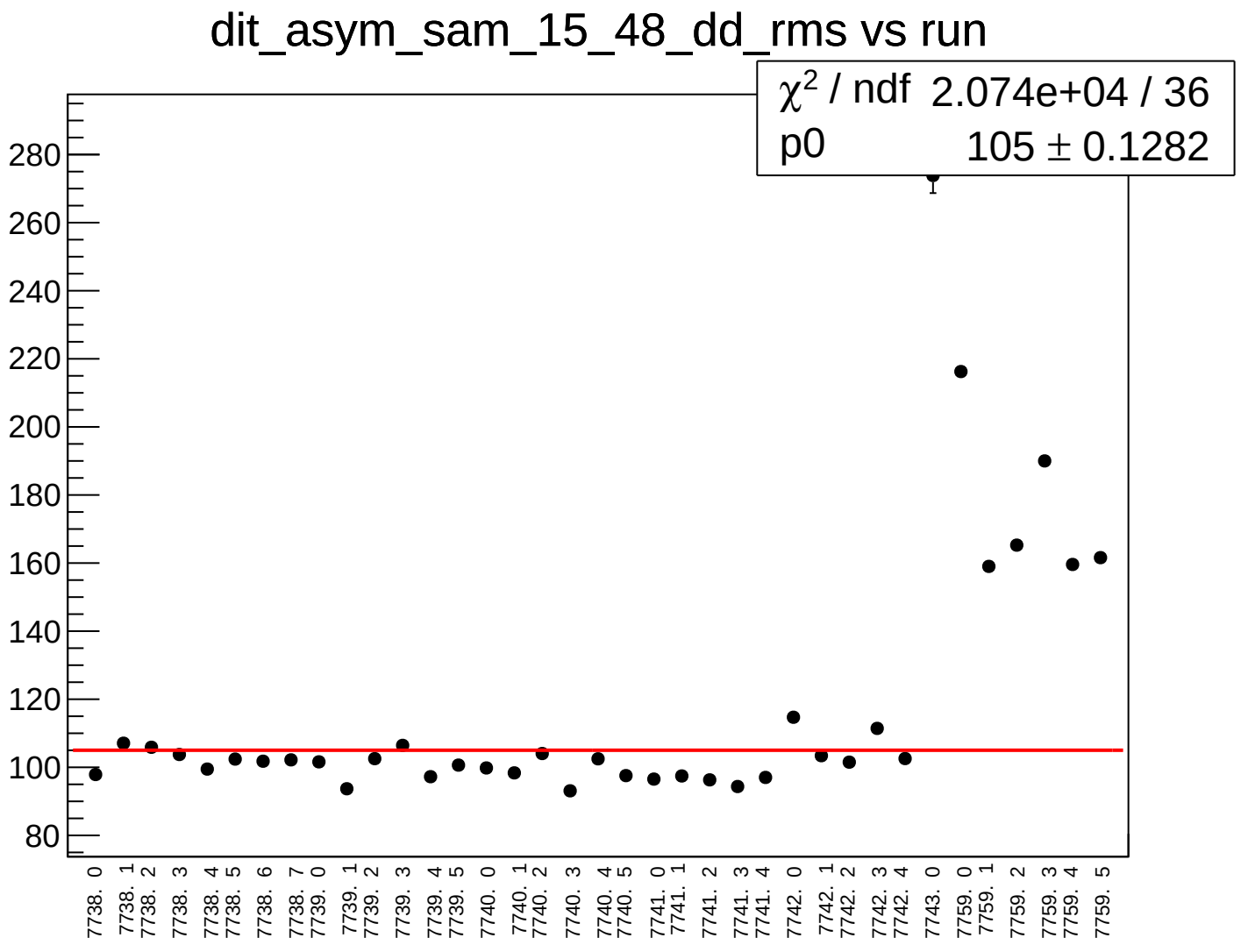

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.223e+04 / 36
p0 2196 ± 2.664
2600
2400
2200
2000
1800
1600
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

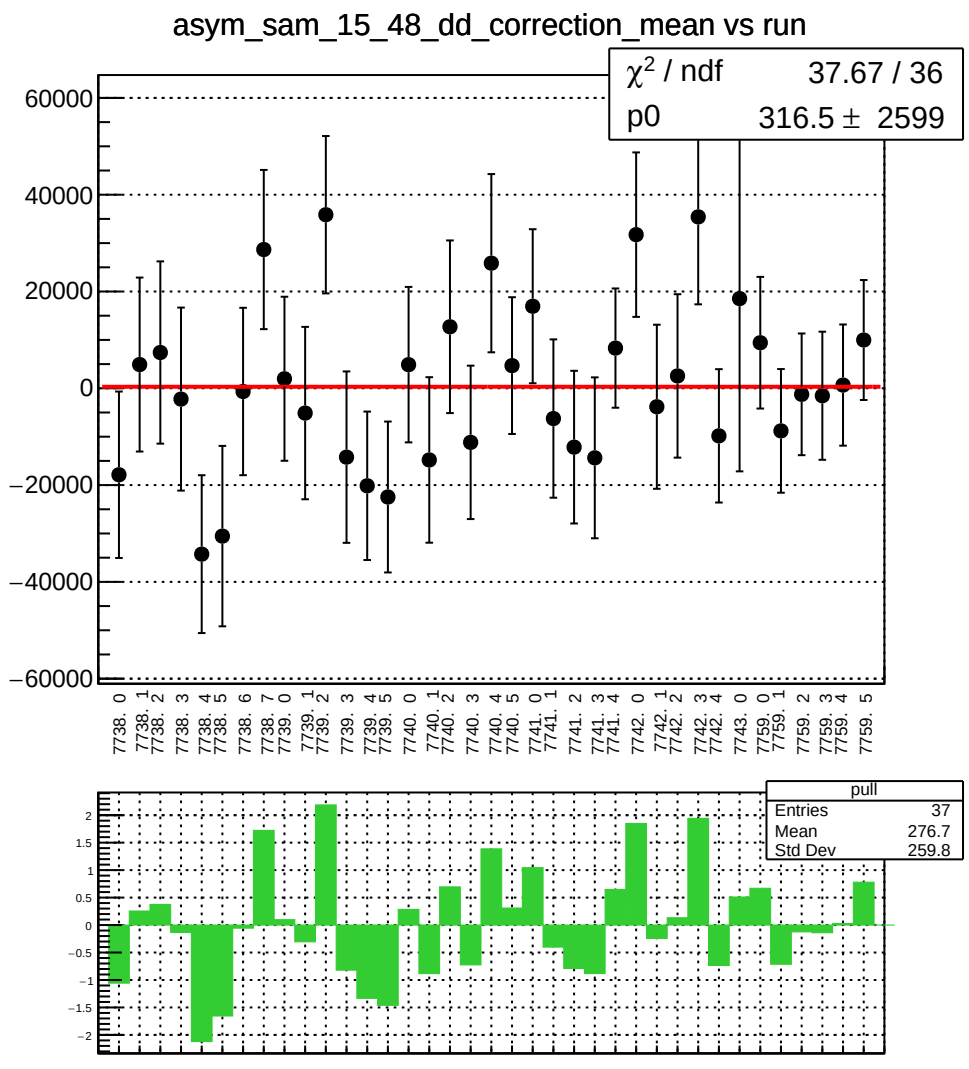

asym_sam_3726_avg_mean vs run
χ² / ndf 35.39 / 36
p0 303.2 ± 3427
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 467.1
Std Dev 450.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

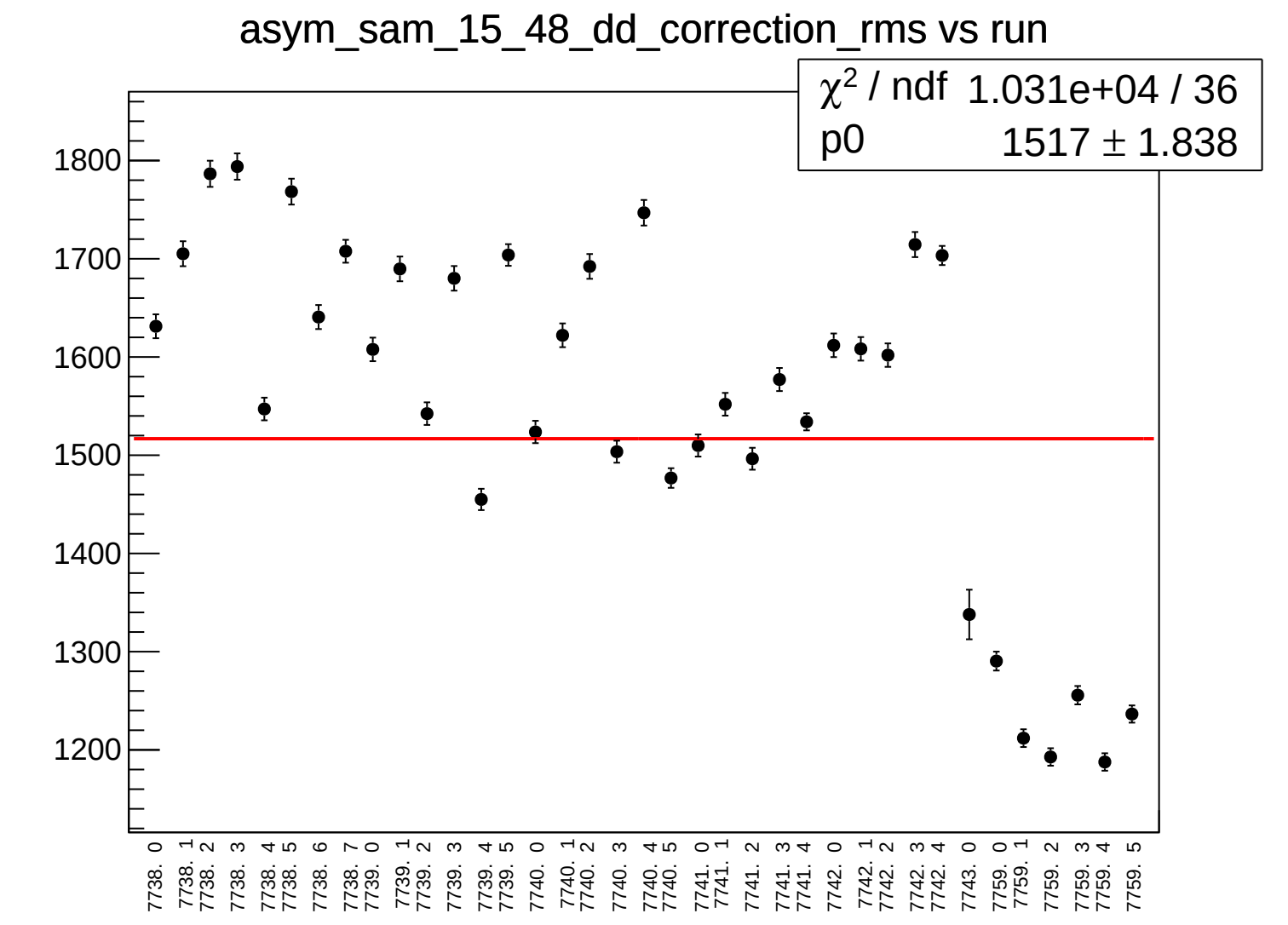

pull1D
Entries 37
Mean 0.004846
Std Dev 0.978
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

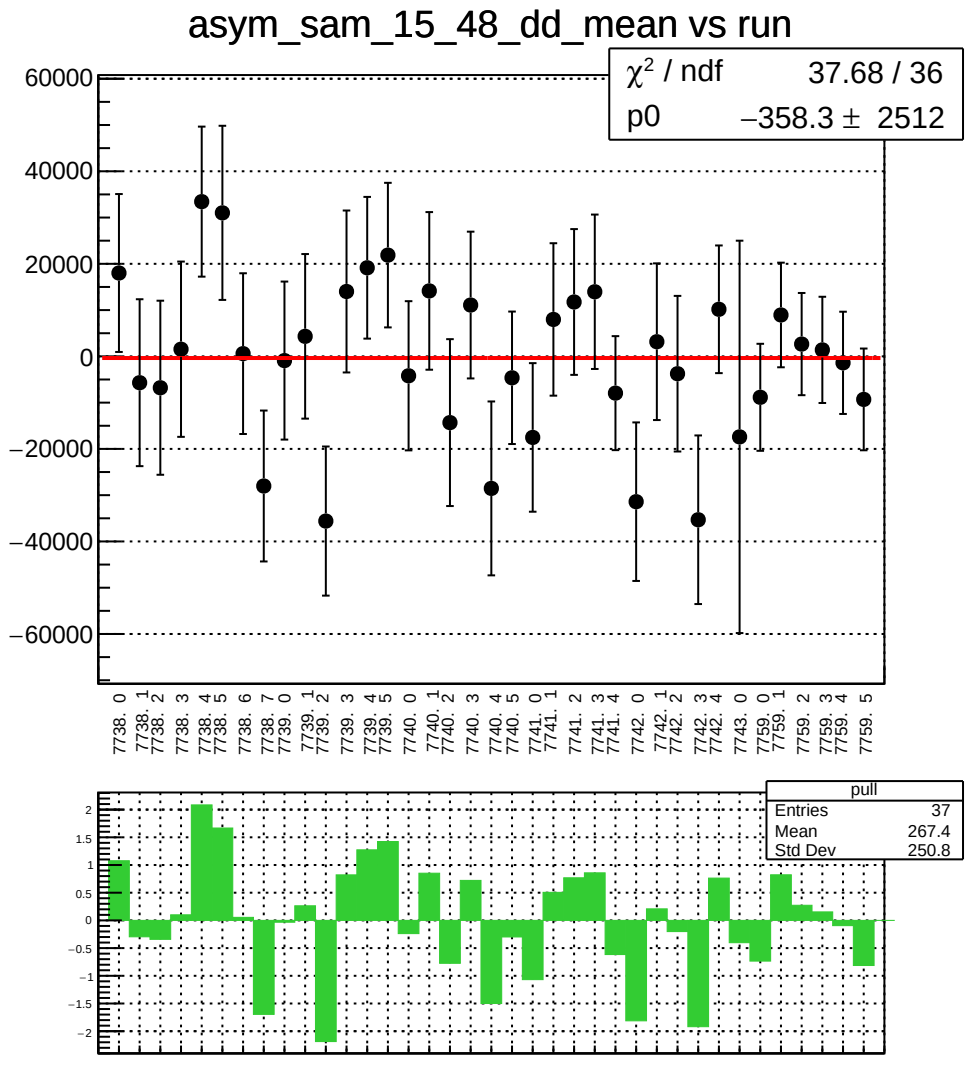

asym_sam_3726_avg_rms vs run
χ² / ndf 4.712e+04 / 36
p0 1945 ± 2.423
2800
2600
2400
2200
2000
1800
1600
1400
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

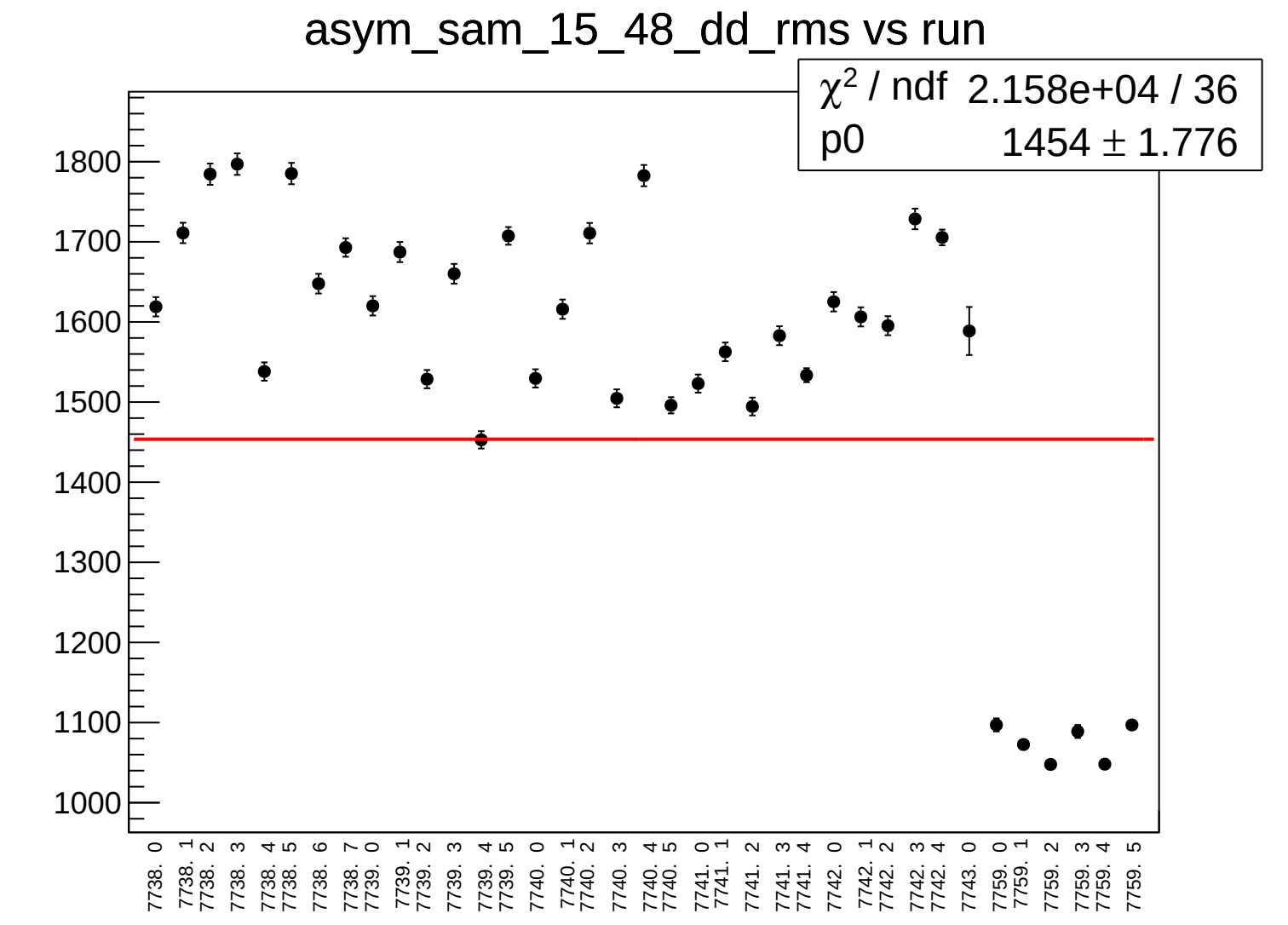

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 20.63 / 36
p0 −153 ± 181.3
8000
6000
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 76.95
Std Dev 45.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean 0.01081
Std Dev 0.7466
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

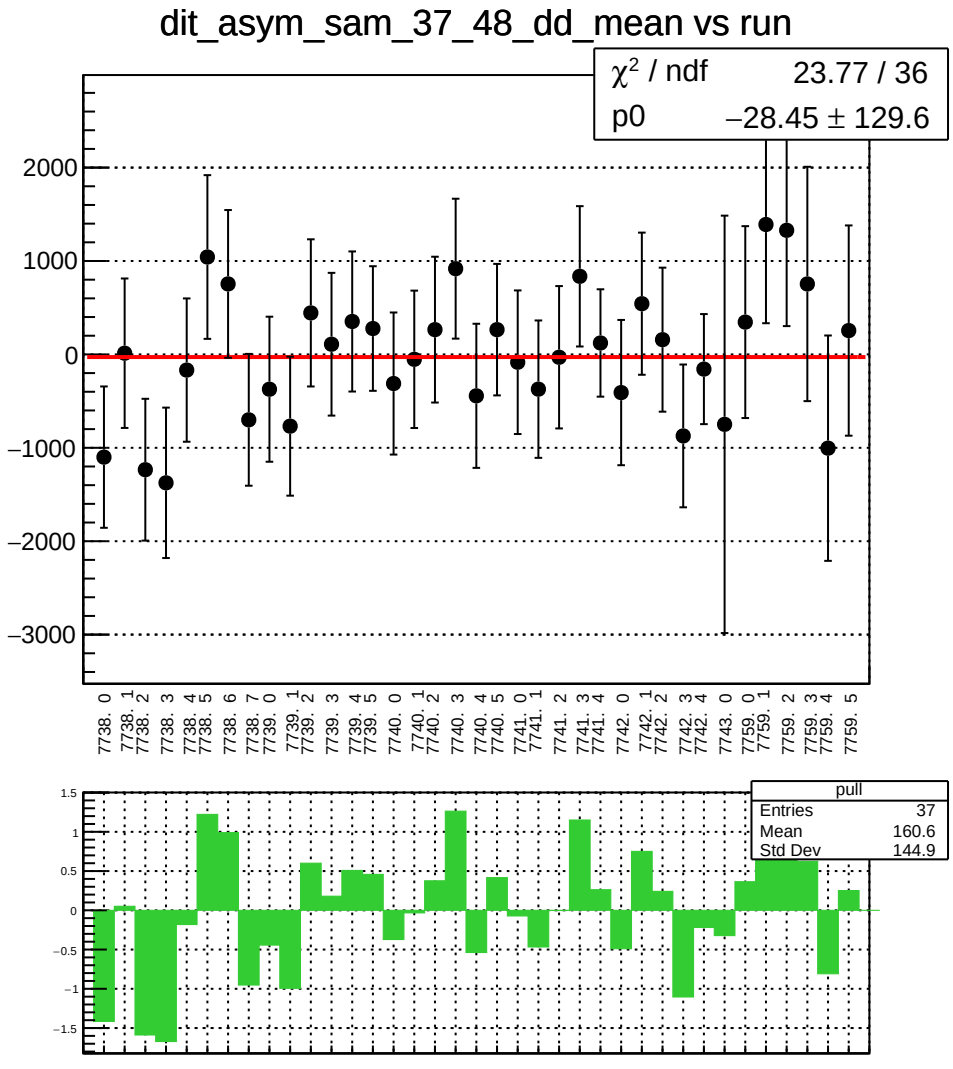

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.074e+04 / 36
p0 105 ± 0.1282
280
260
240
220
200
180
160
140
120
100
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

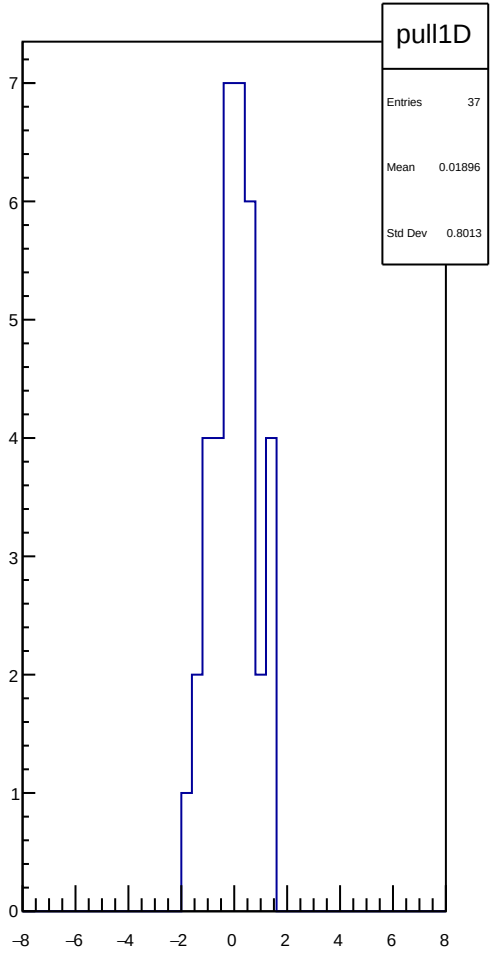

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 37.67 / 36
p0 316.5 ± 2599
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 276.7
Std Dev 259.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.009011
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

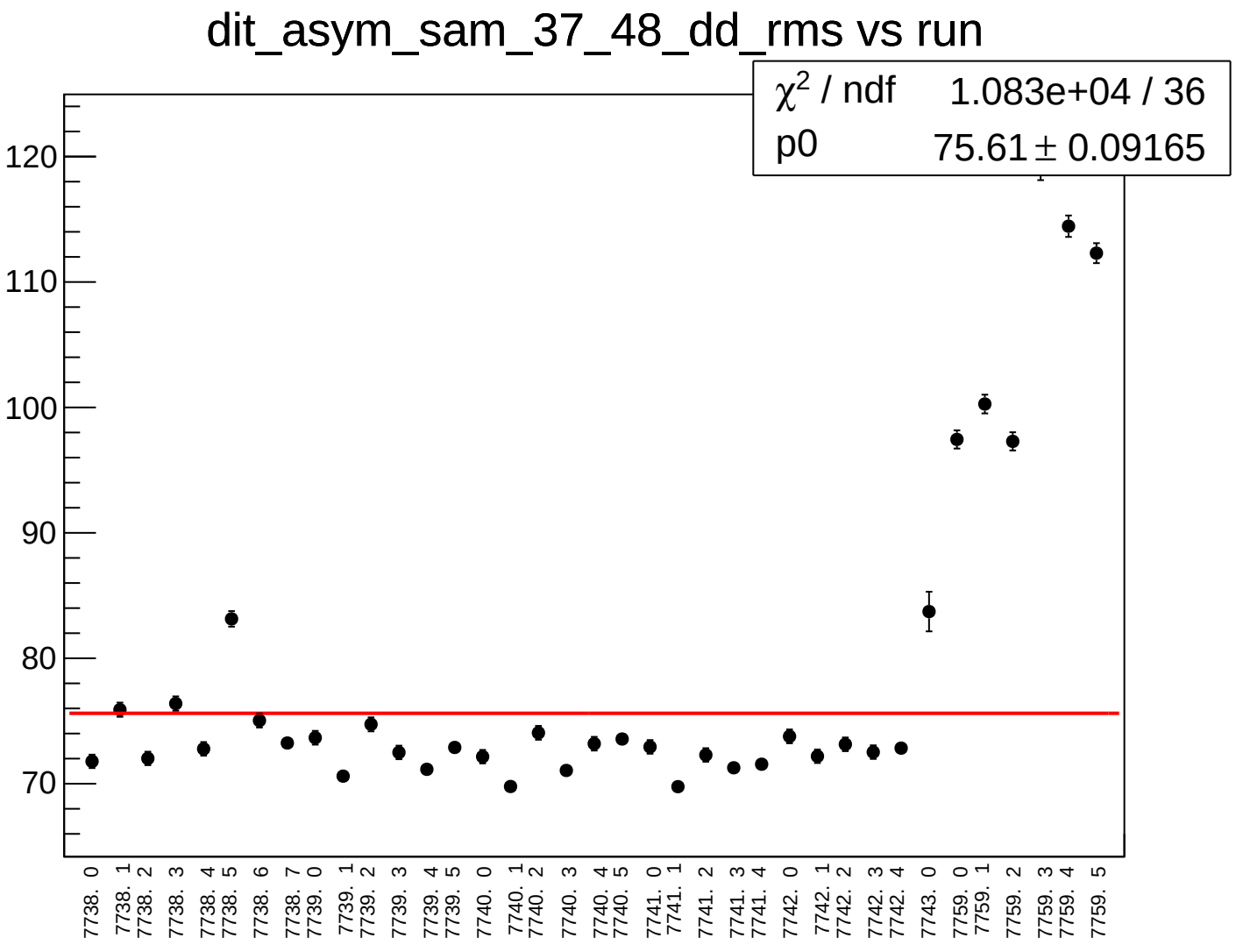

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.031e+04 / 36
p0 1517 ± 1.838
1800
1700
1600
1500
1400
1300
1200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

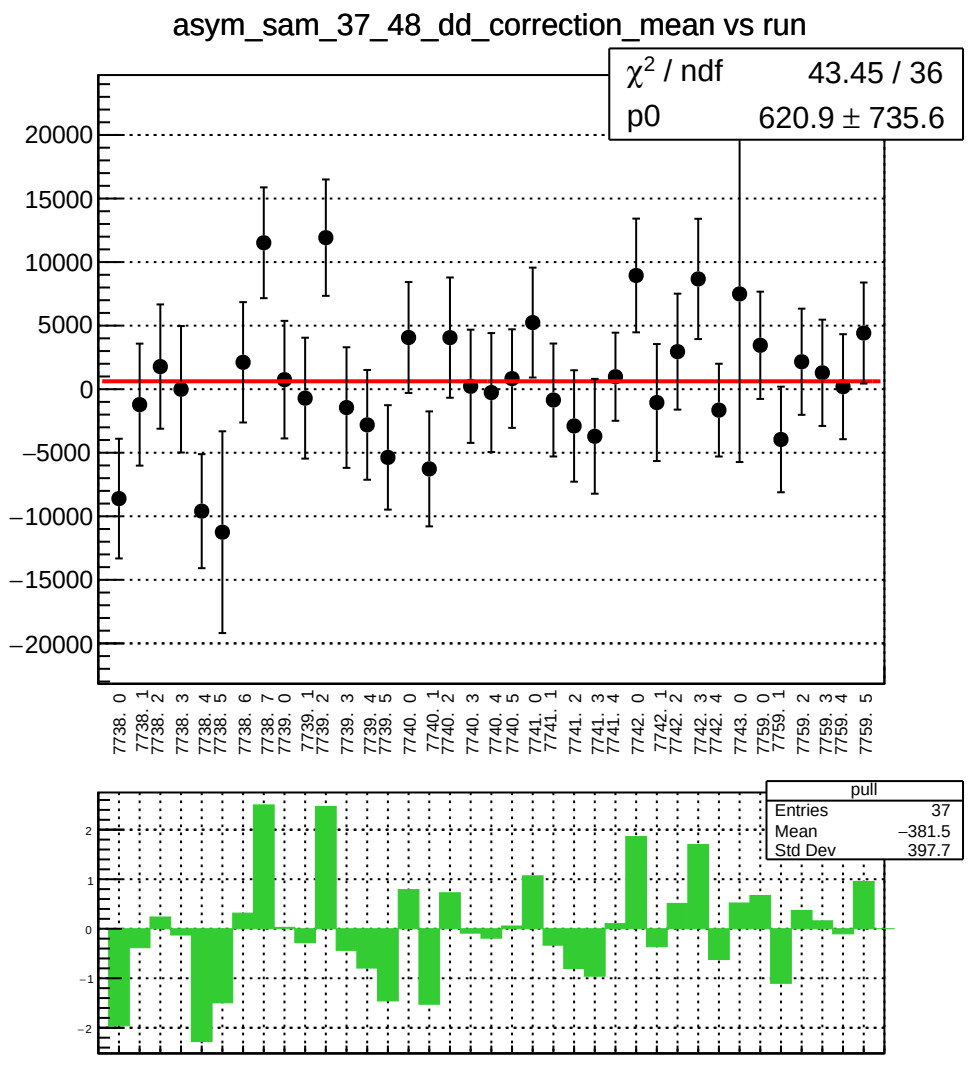

asym_sam_15_48_dd_mean vs run
χ² / ndf 37.68 / 36
p0 −358.3 ± 2512
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 267.4
Std Dev 250.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.008958
Std Dev 1.009
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

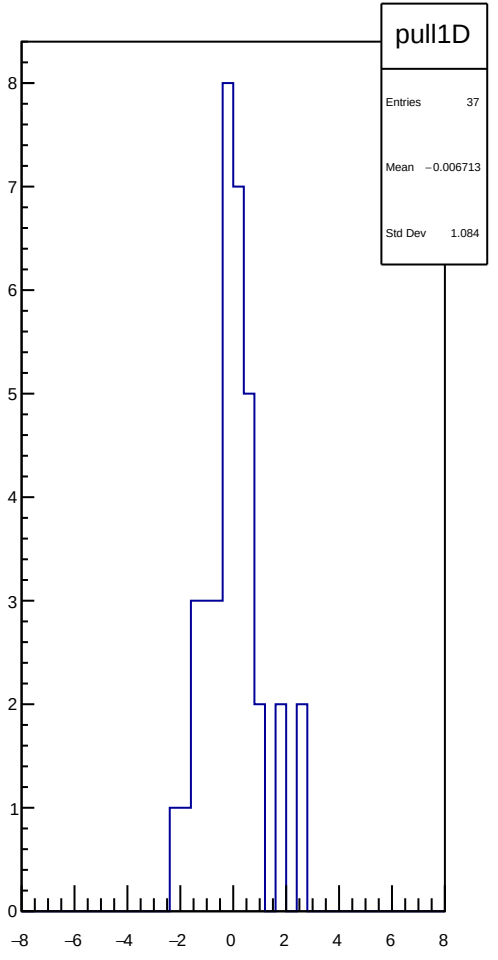

asym_sam_15_48_dd_rms vs run
χ² / ndf 2.158e+04 / 36
p0 1454 ± 1.776
1800
1700
1600
1500
1400
1300
1200
1100
1000
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

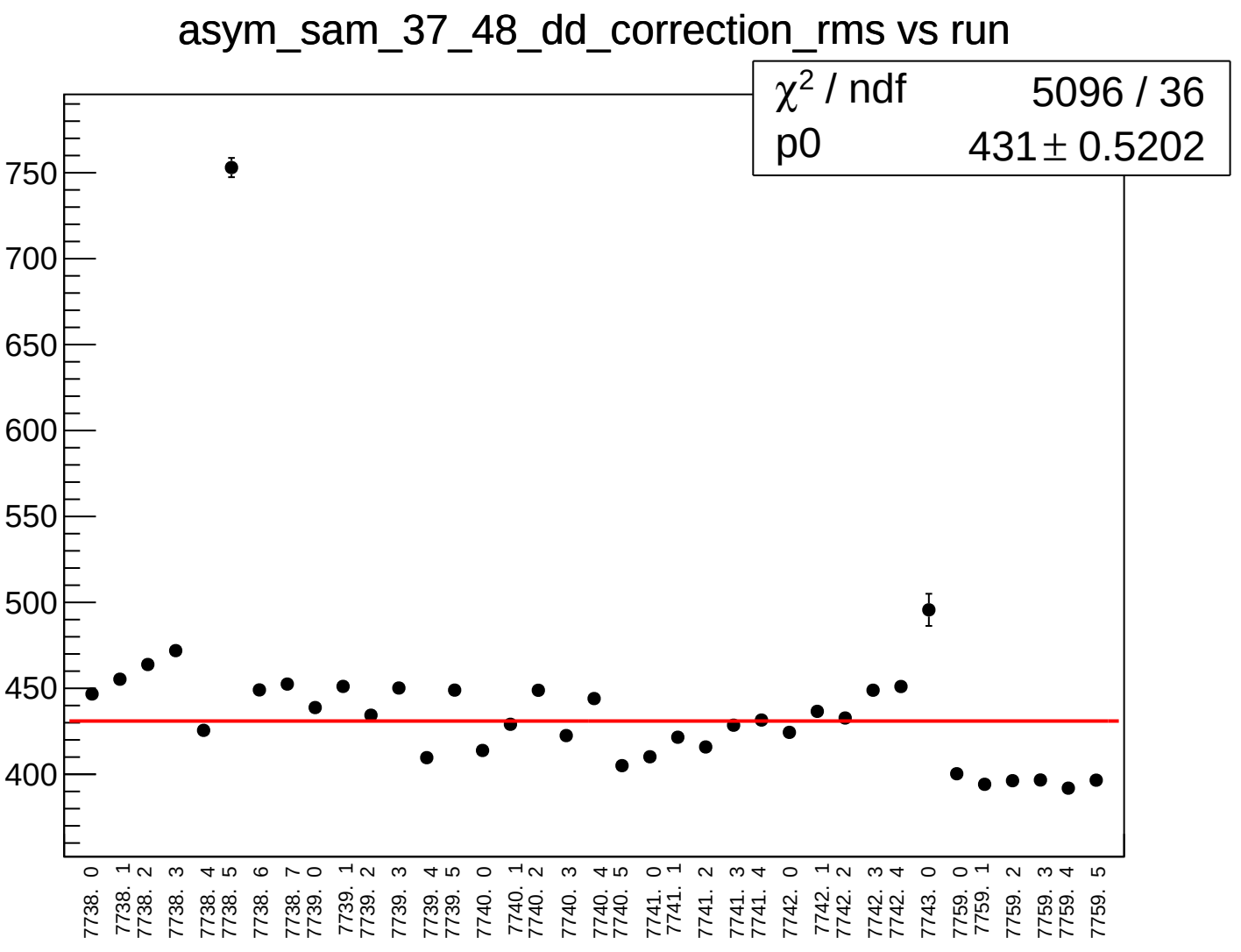

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 23.77 / 36
p0 −28.45 ± 129.6
2000
1000
0
−1000
−2000
−3000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 160.6
Std Dev 144.9
1.5
1
0.5
0
−0.5
−1
−1.5

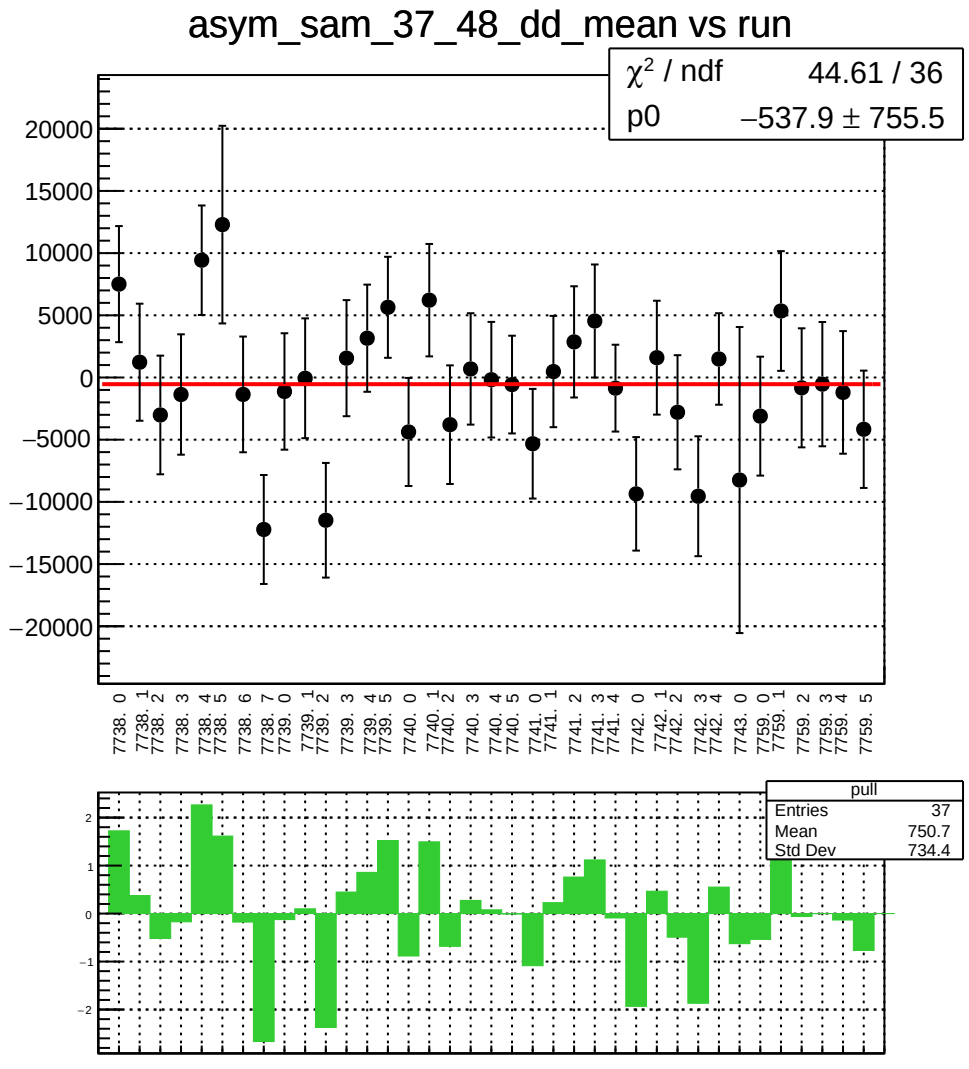

pull1D
Entries 37
Mean 0.01896
Std Dev 0.8013
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

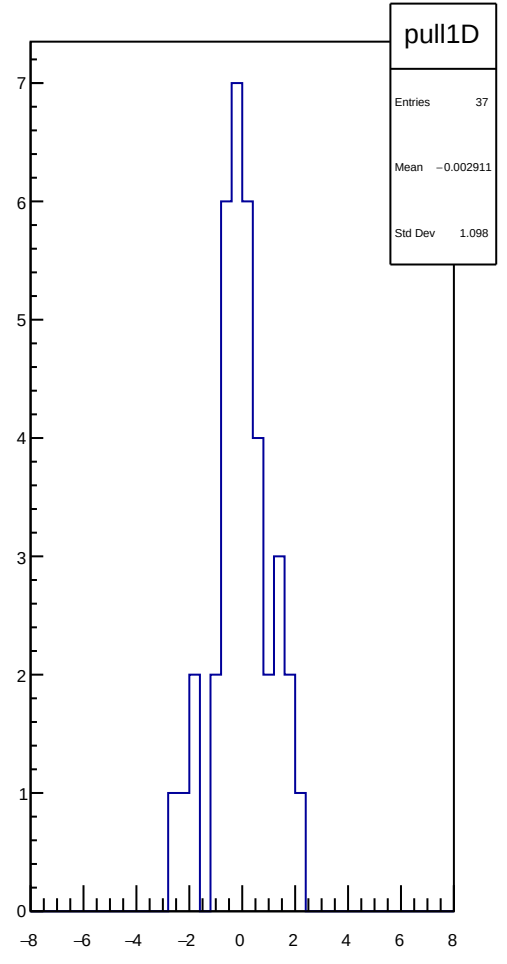

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.083e+04 / 36
p0 75.61 ± 0.09165
120
110
100
90
80
70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

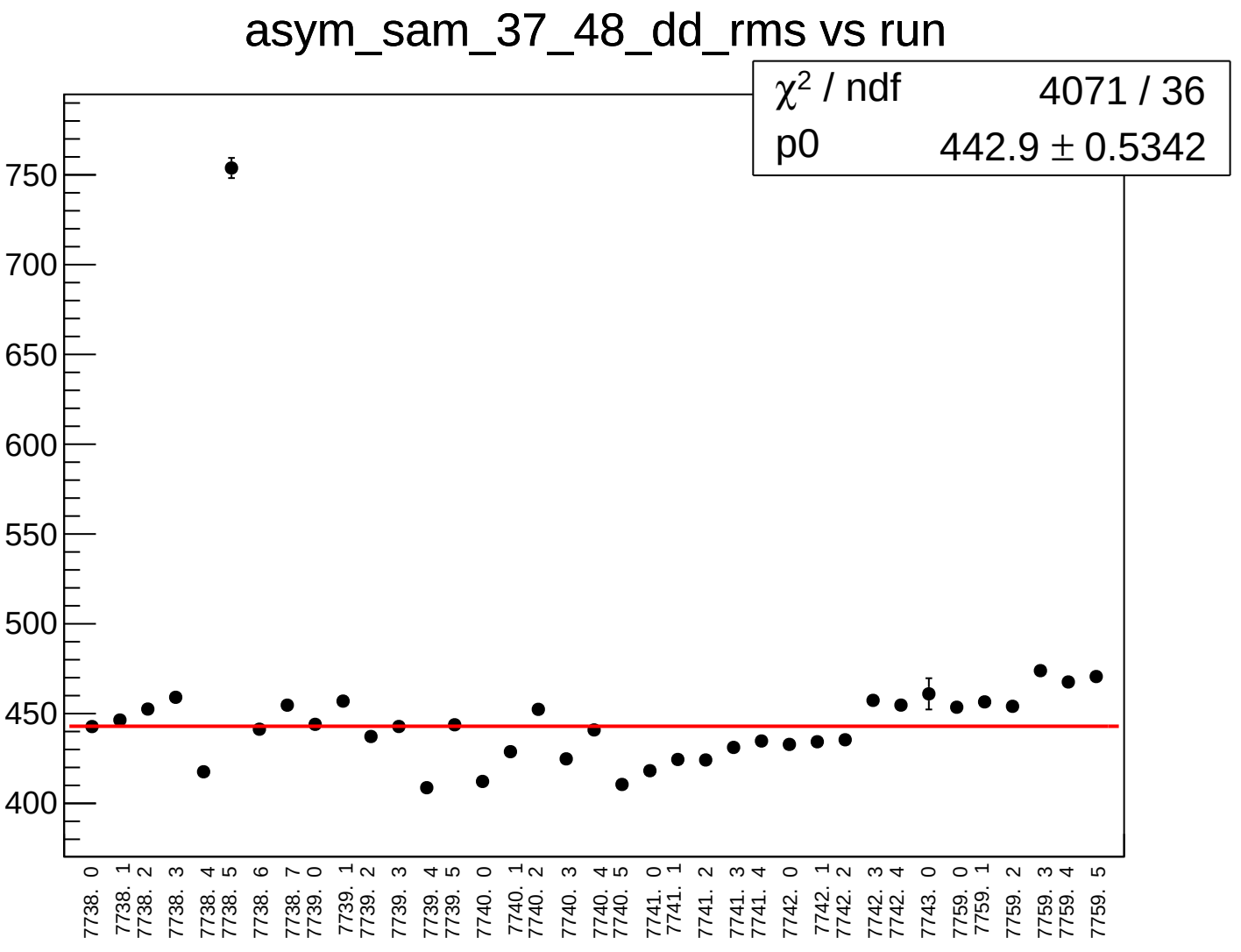

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 43.45 / 36
p0 620.9 ± 735.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −381.5
Std Dev 397.7
2
1
0
−1
−2

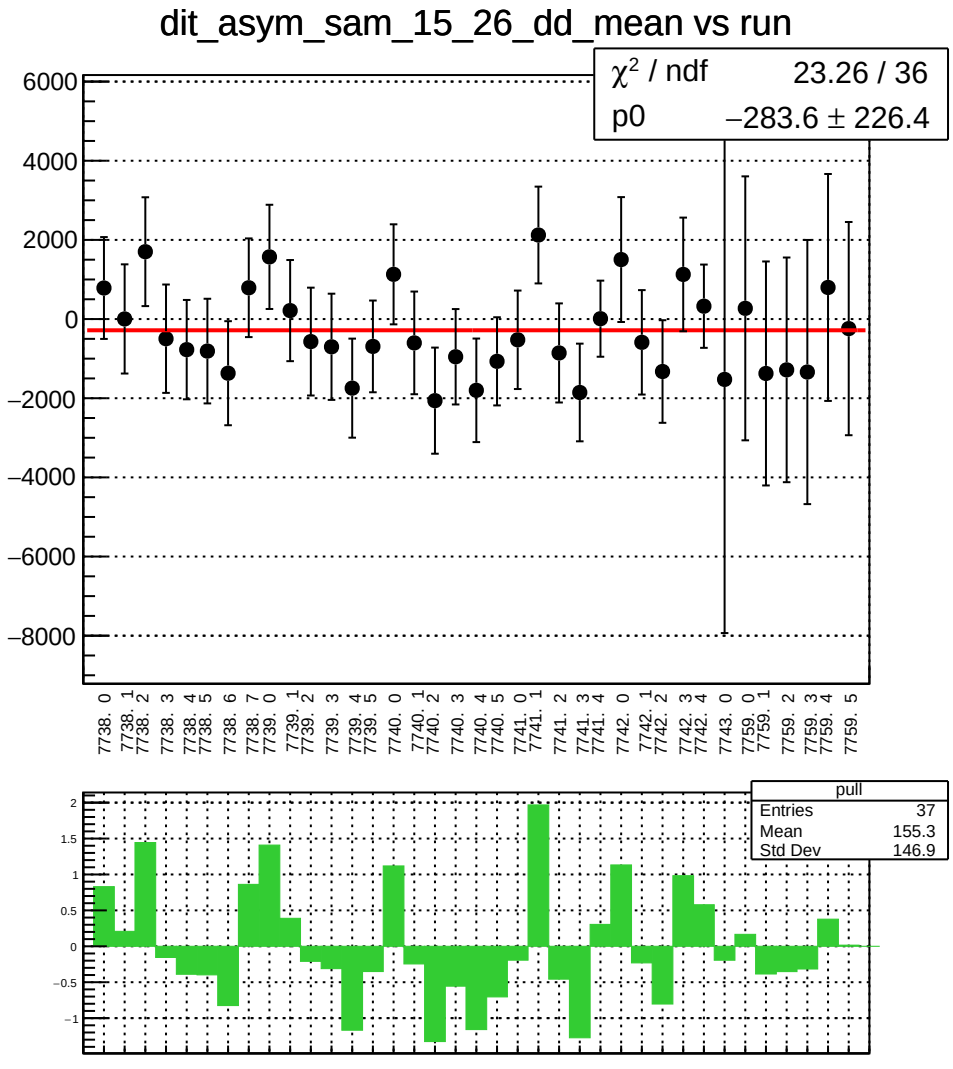

pull1D
Entries 37
Mean −0.006713
Std Dev 1.084
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

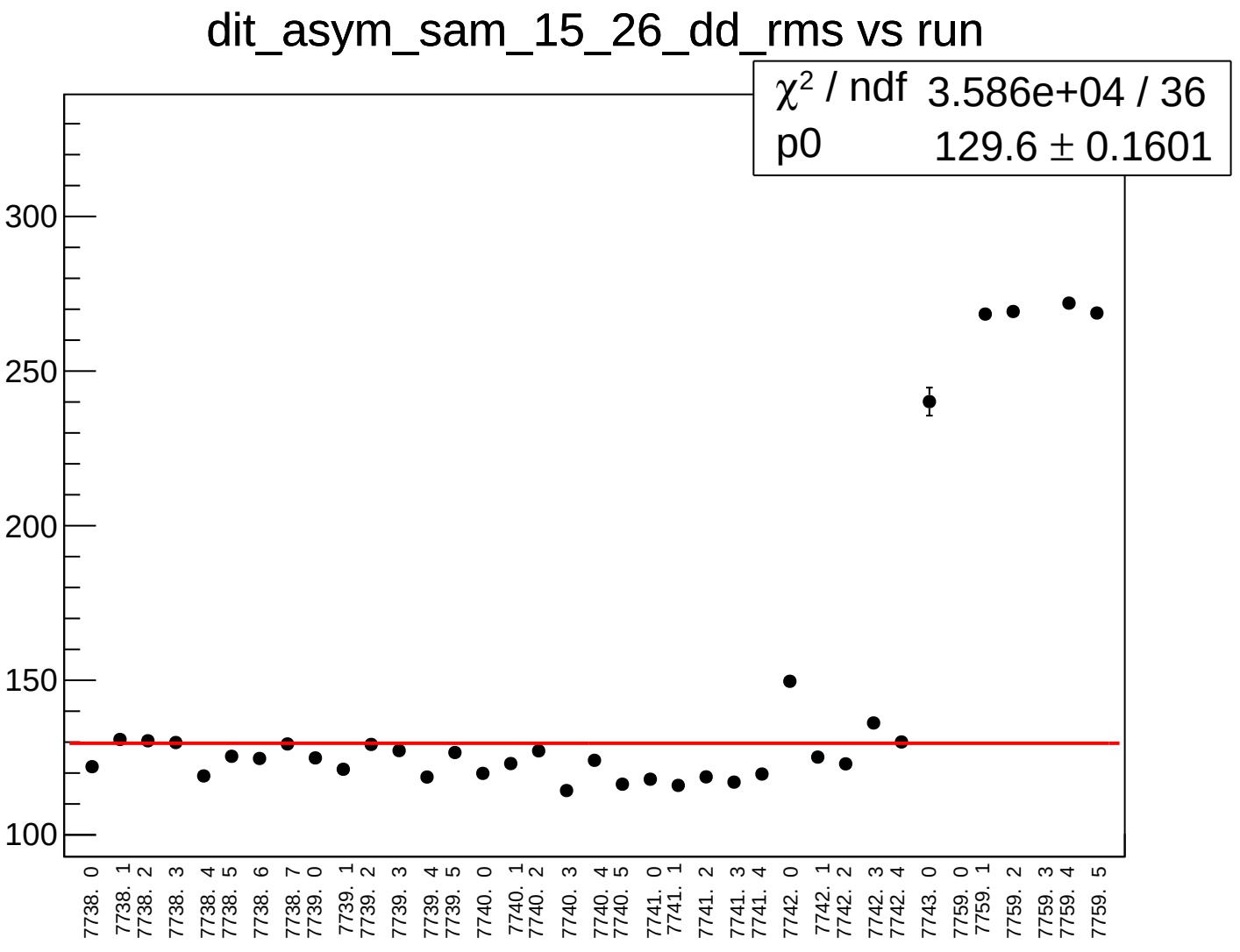

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 5096 / 36
p0 431 ± 0.5202
750
700
650
600
550
500
450
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

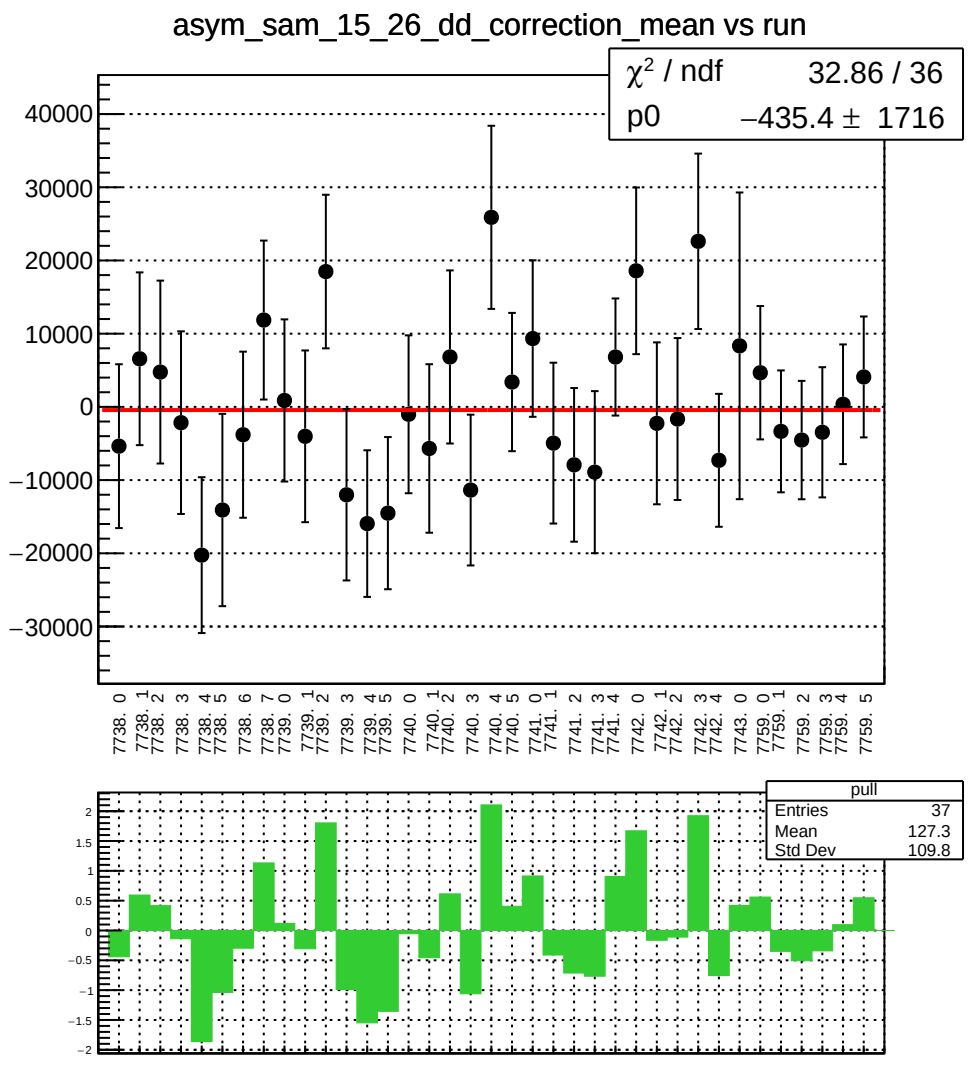

asym_sam_37_48_dd_mean vs run
χ² / ndf 44.61 / 36
p0 −537.9 ± 755.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 750.7
Std Dev 734.4
2
1
0
−1
−2

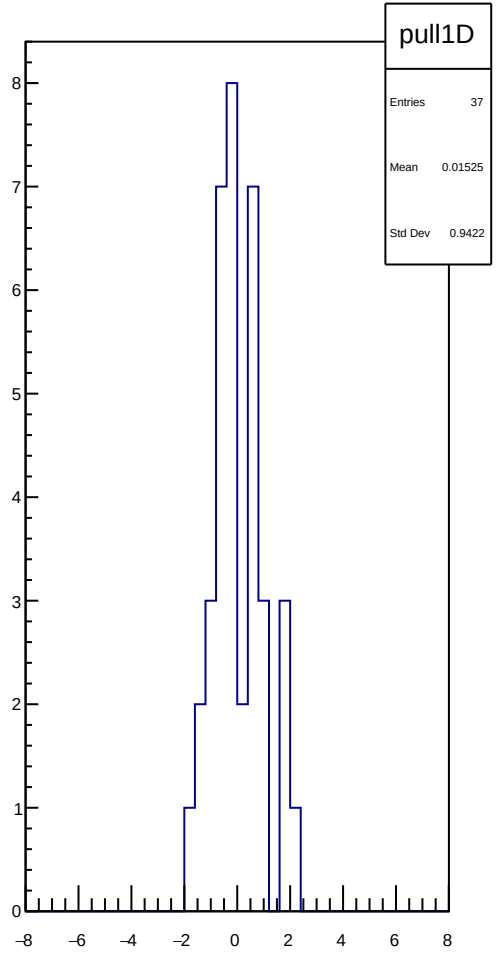

pull1D
Entries 37
Mean −0.002911
Std Dev 1.098
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

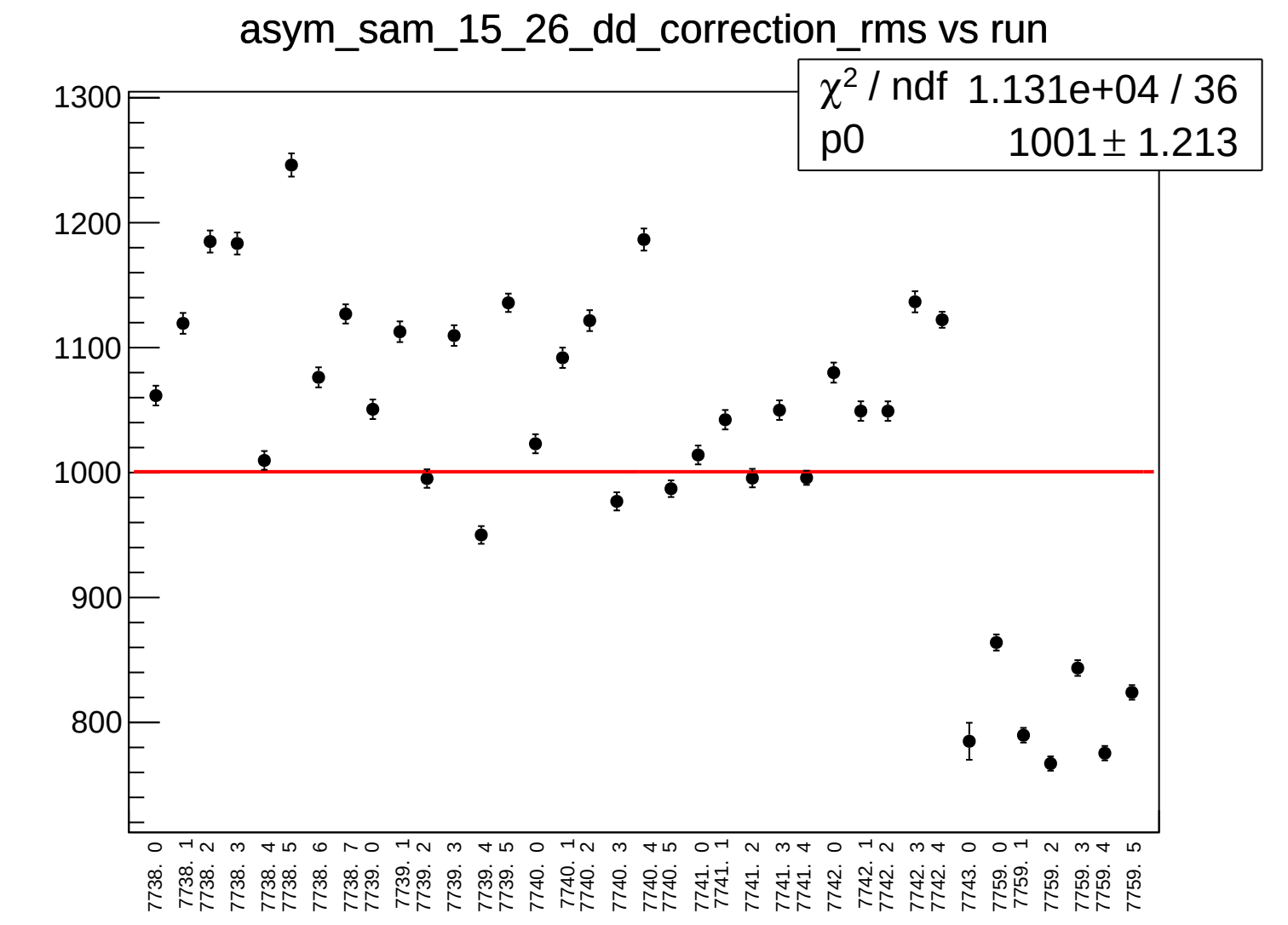

asym_sam_37_48_dd_rms vs run
χ² / ndf 4071 / 36
p0 442.9 ± 0.5342
750
700
650
600
550
500
450
400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

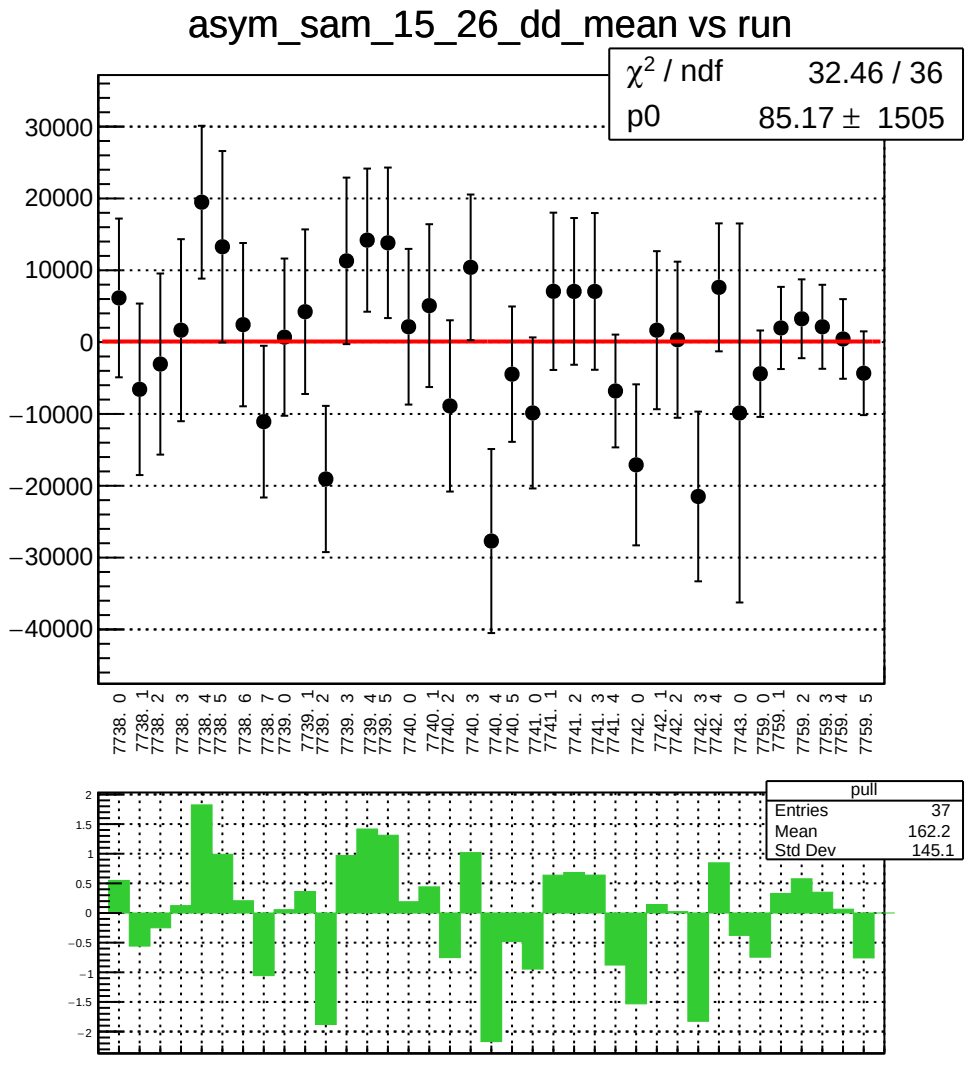

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 23.26 / 36
p0 −283.6 ± 226.4
6000
4000
2000
0
−2000
−4000
−6000
−8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 155.3
Std Dev 146.9
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean −0.005817
Std Dev 0.7928
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

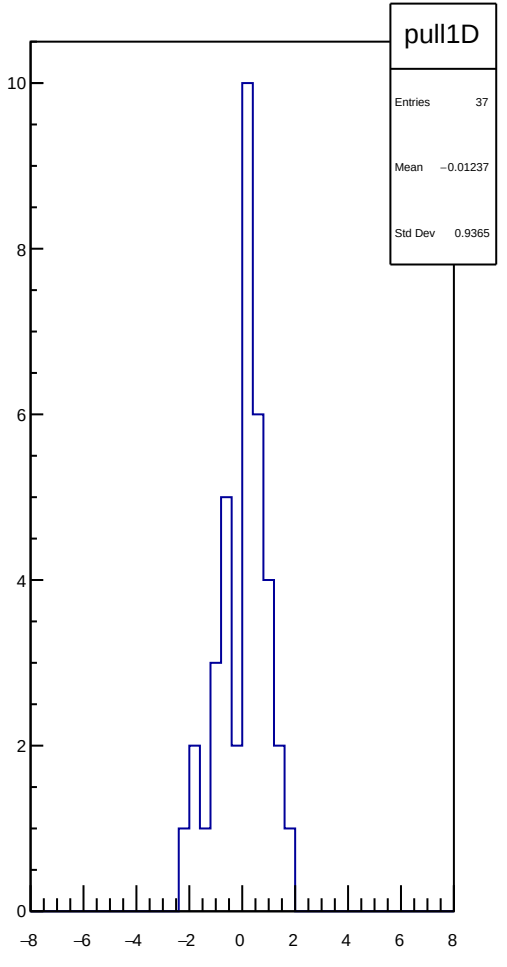

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.586e+04 / 36
p0 129.6 ± 0.1601
300
250
200
150
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

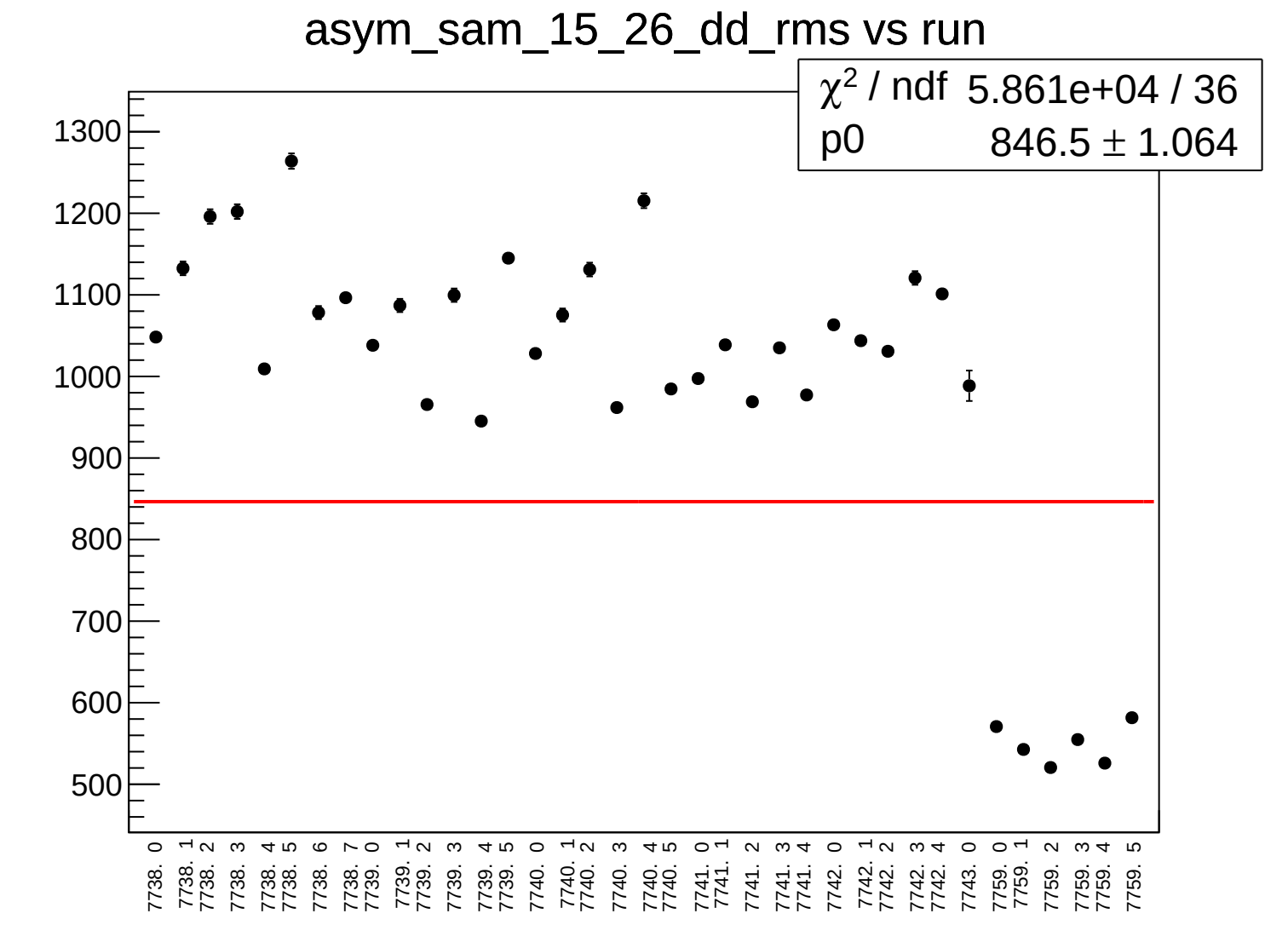

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 32.86 / 36
p0 −435.4 ± 1716
40000
30000
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 127.3
Std Dev 109.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

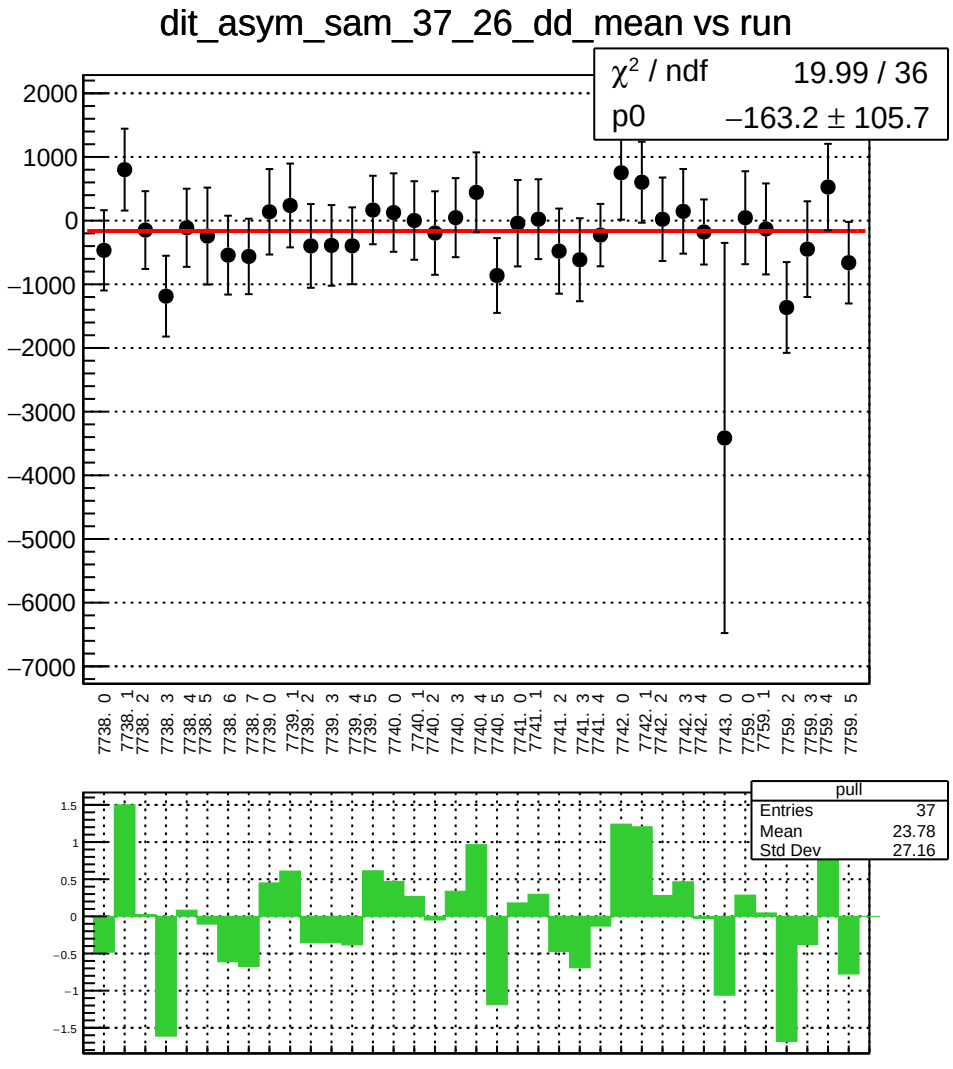

pull1D
Entries 37
Mean 0.01525
Std Dev 0.9422
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

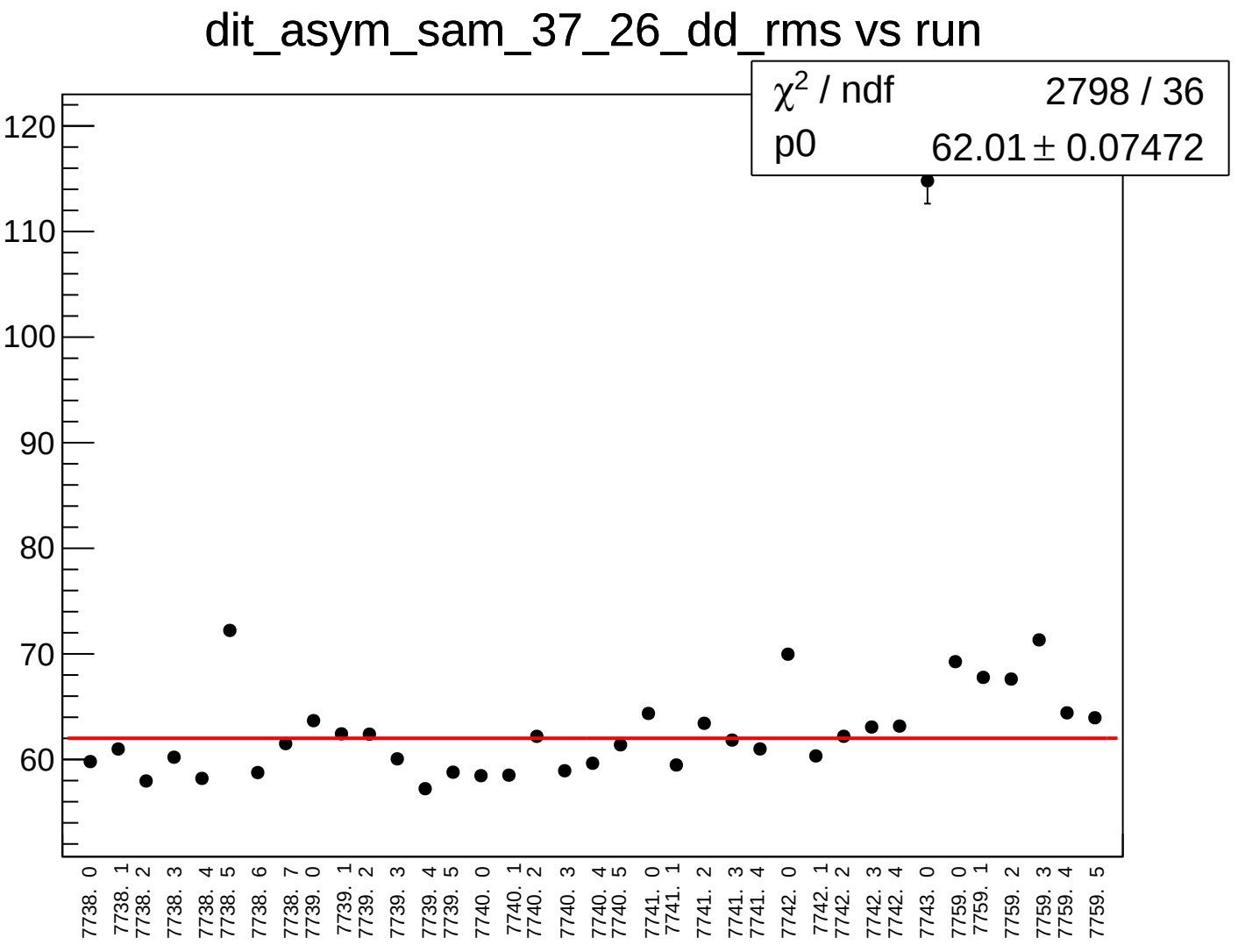

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.131e+04 / 36
p0 1001 ± 1.213
1300
1200
1100
1000
900
800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

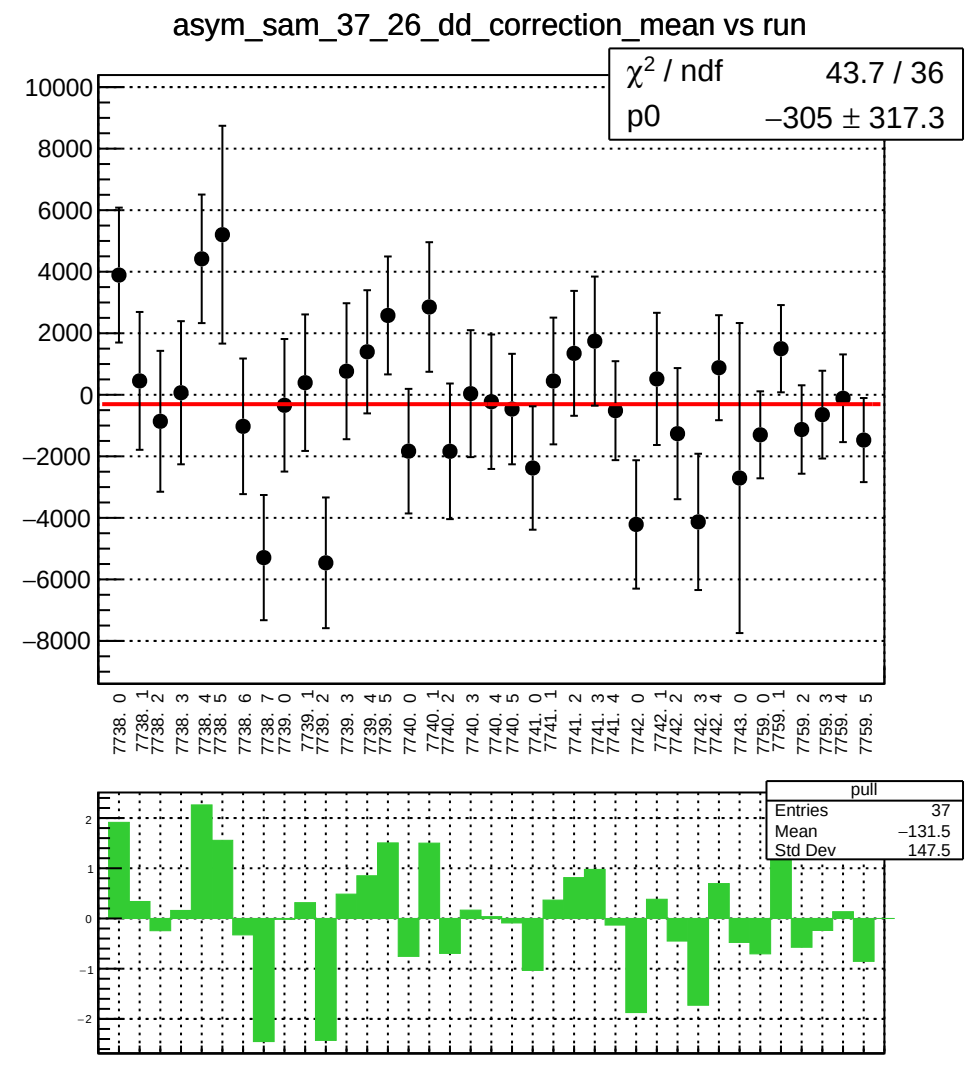

asym_sam_15_26_dd_mean vs run
χ² / ndf 32.46 / 36
p0 85.17 ± 1505
30000
20000
10000
0
−10000
−20000
−30000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 162.2
Std Dev 145.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

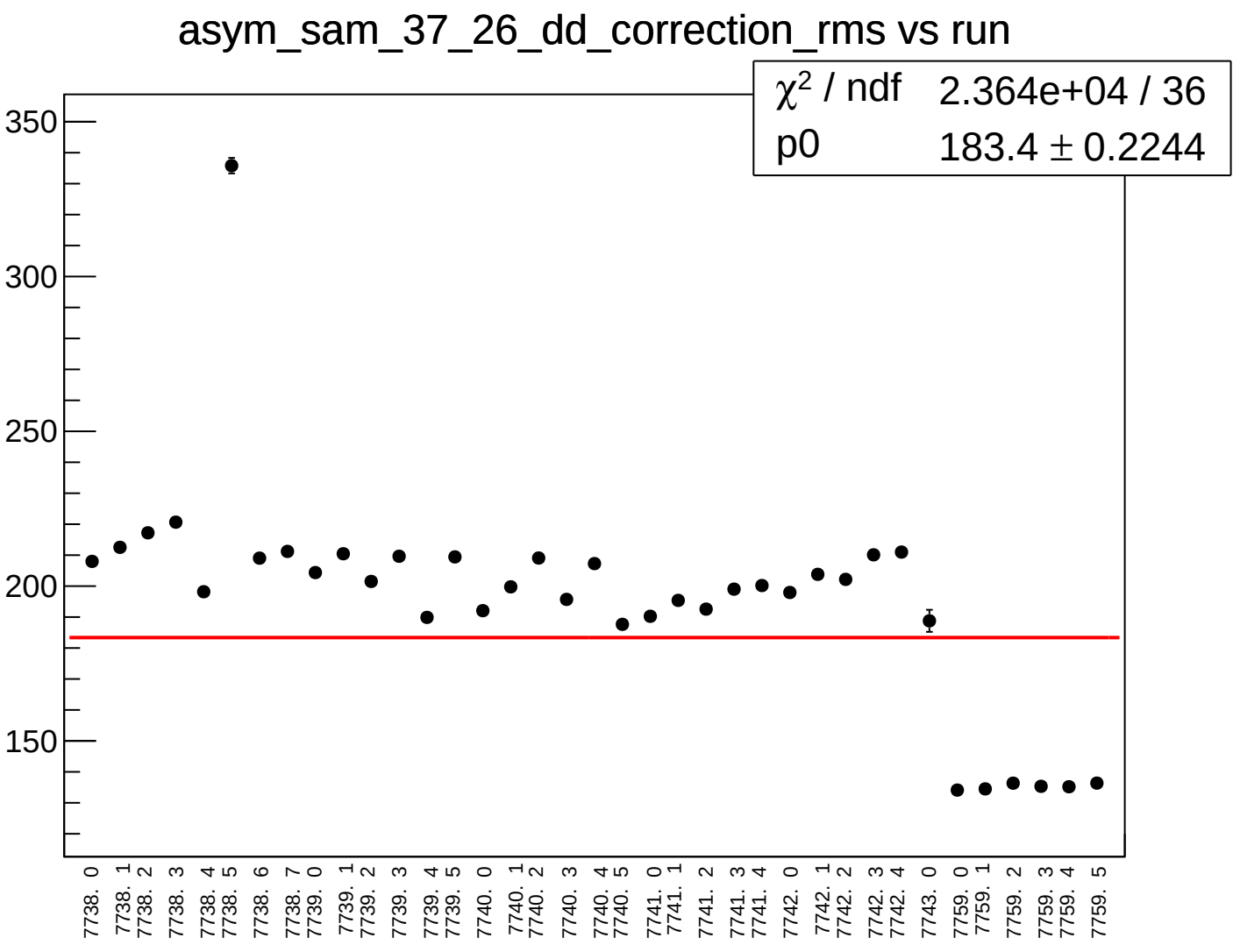

pull1D
Entries 37
Mean −0.01237
Std Dev 0.9365
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

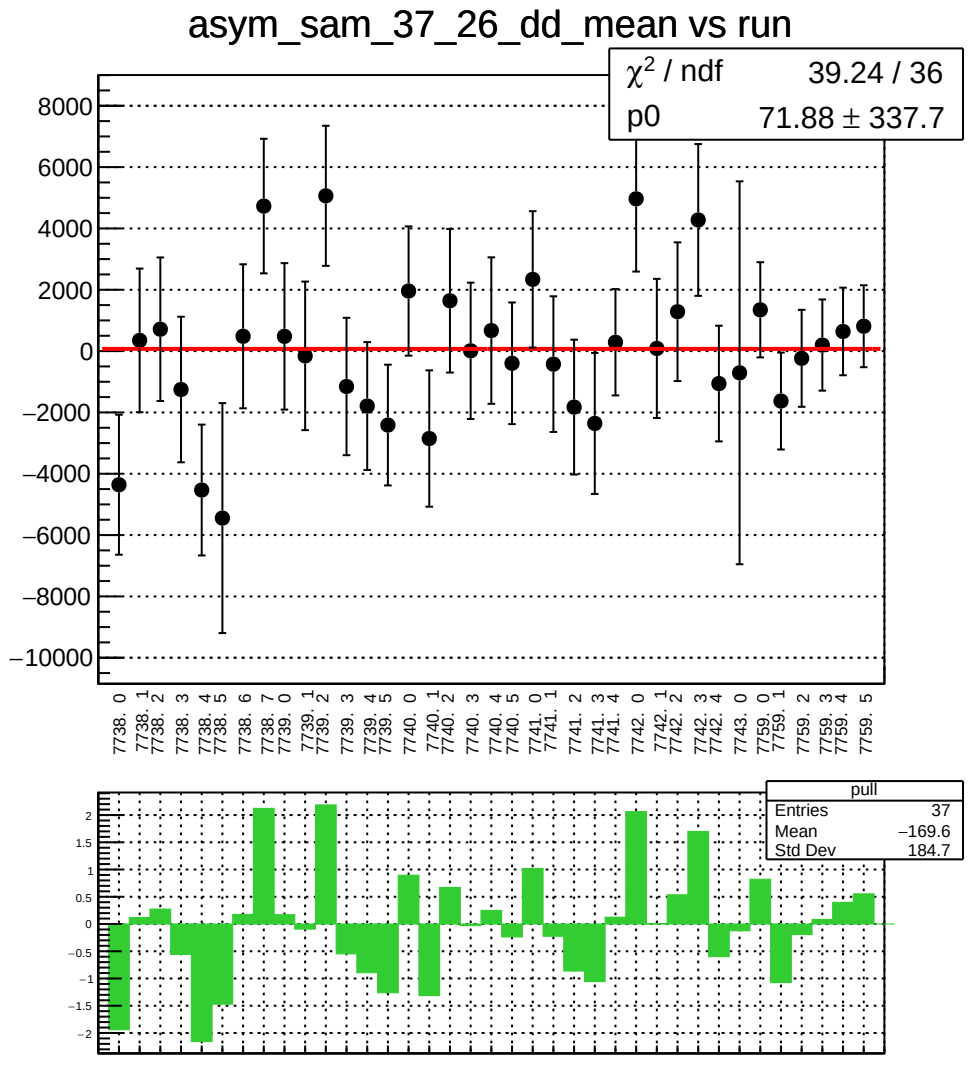

asym_sam_15_26_dd_rms vs run
χ² / ndf 5.861e+04 / 36
p0 846.5 ± 1.064
1300
1200
1100
1000
900
800
700
600
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

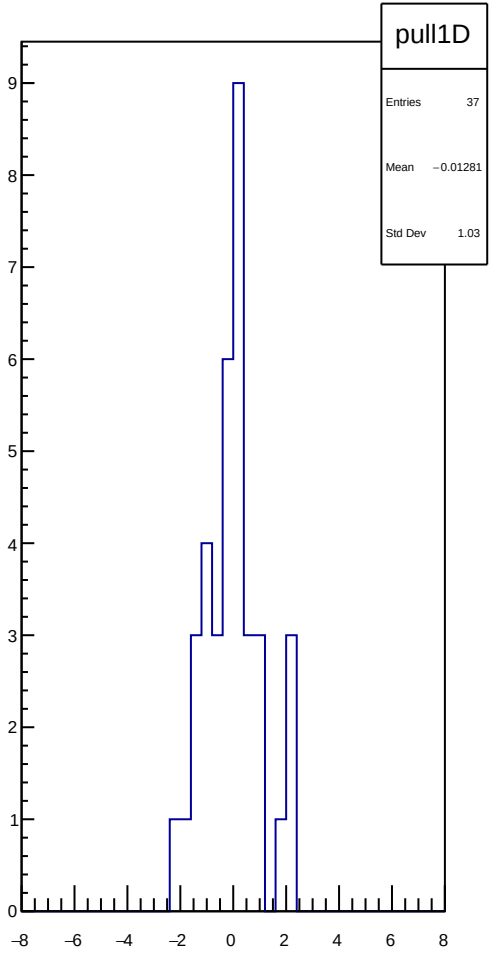

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 19.99 / 36
p0 −163.2 ± 105.7
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.78
Std Dev 27.16
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.01895
Std Dev 0.7348
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

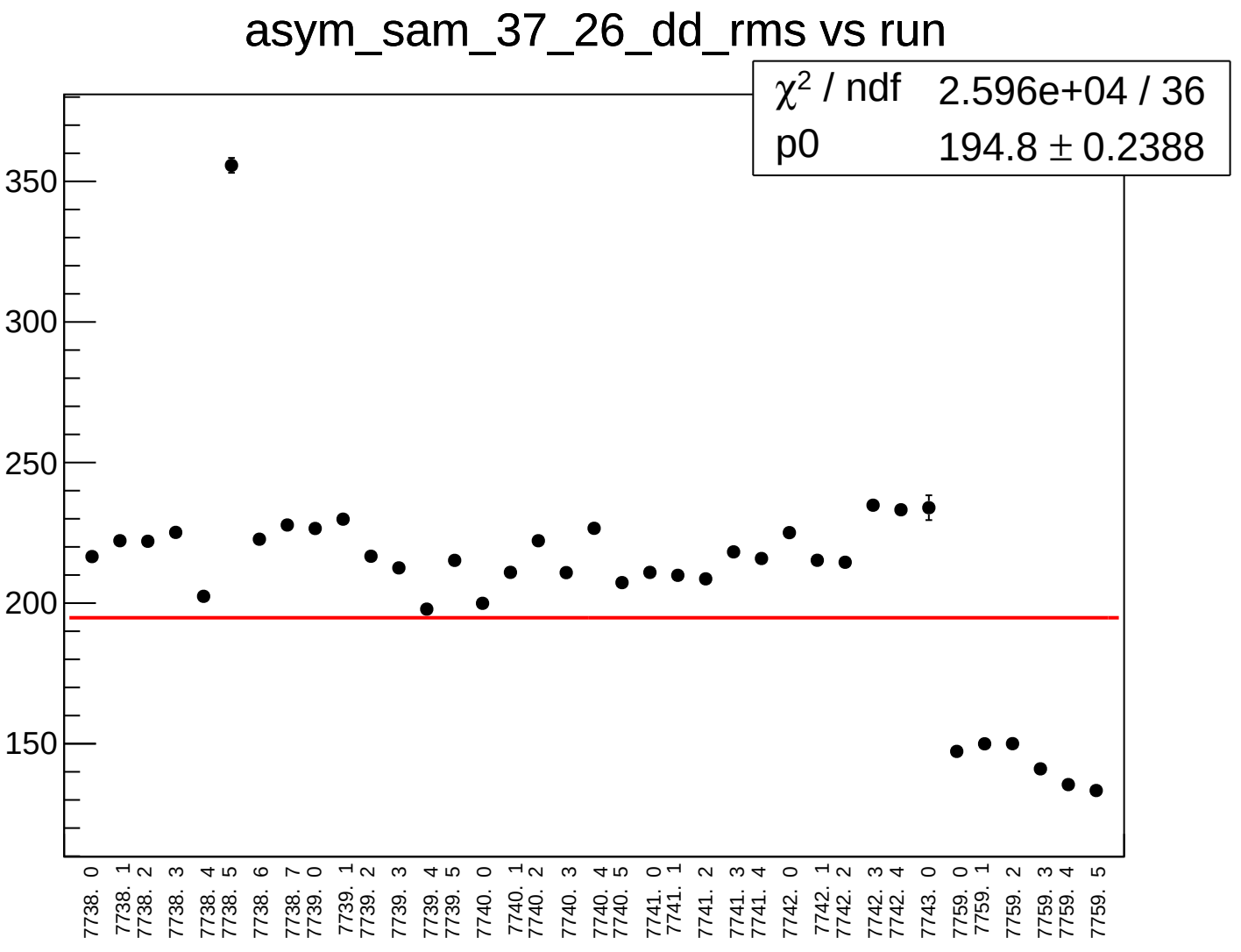

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2798 / 36
p0 62.01 ± 0.07472
120
110
100
90
80
70
60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

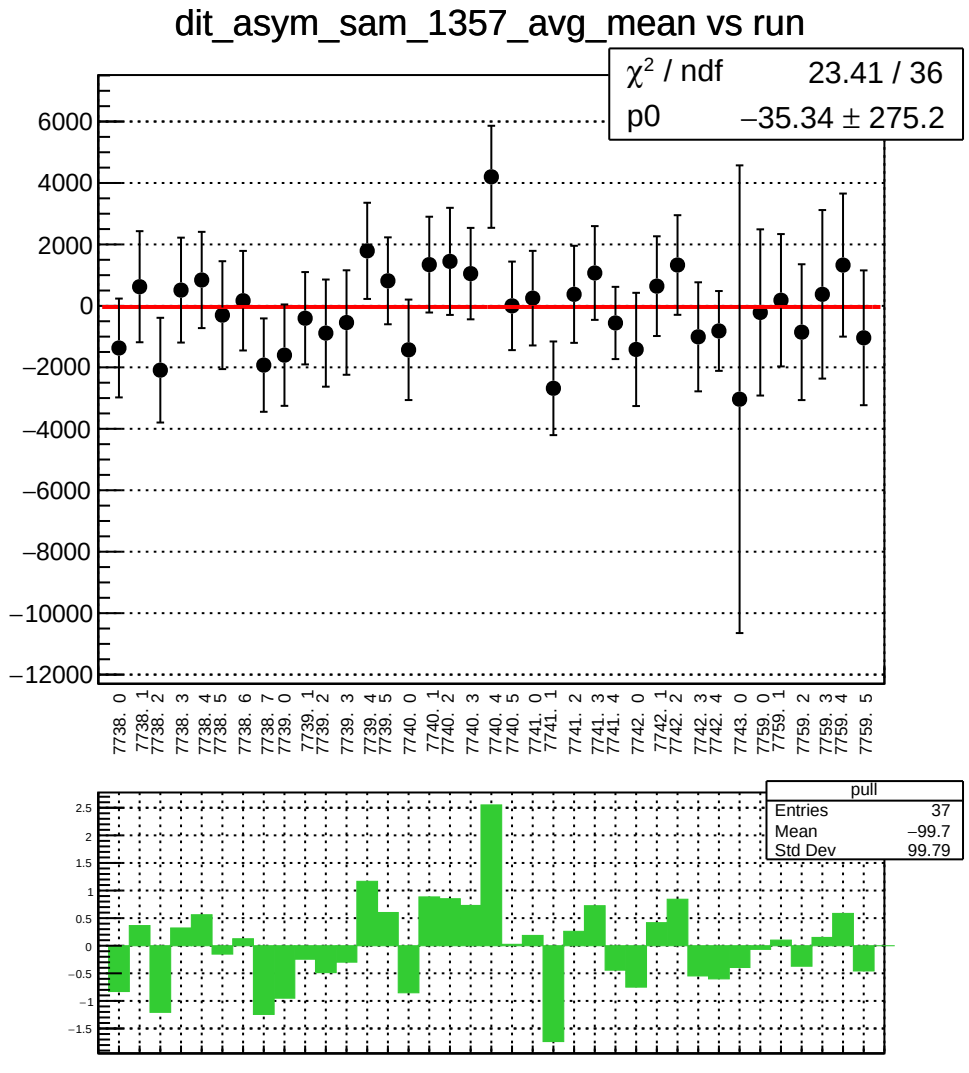

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 43.7 / 36
p0 −305 ± 317.3
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −131.5
Std Dev 147.5
2
1
0
−1
−2
pull1D
Entries 37
Mean 0.01788
Std Dev 1.087
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

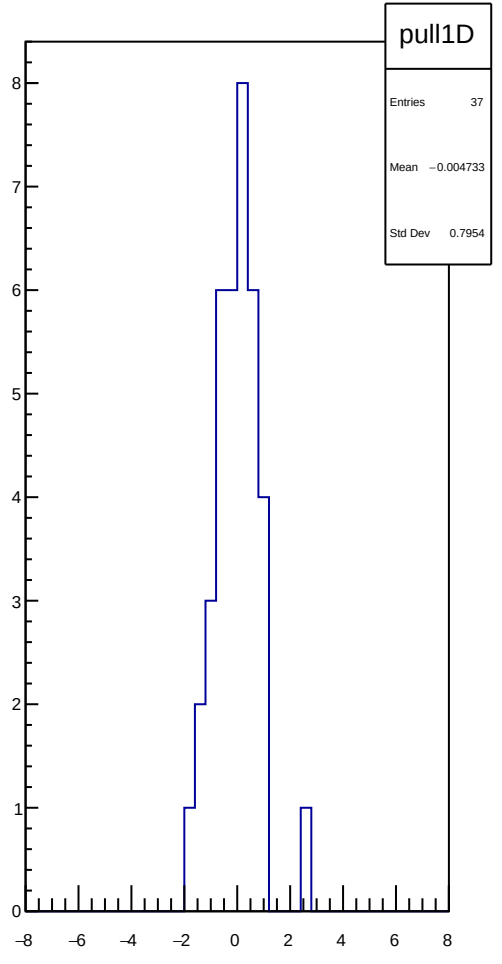

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 2.364e+04 / 36
p0 183.4 ± 0.2244
350
300
250
200
150
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

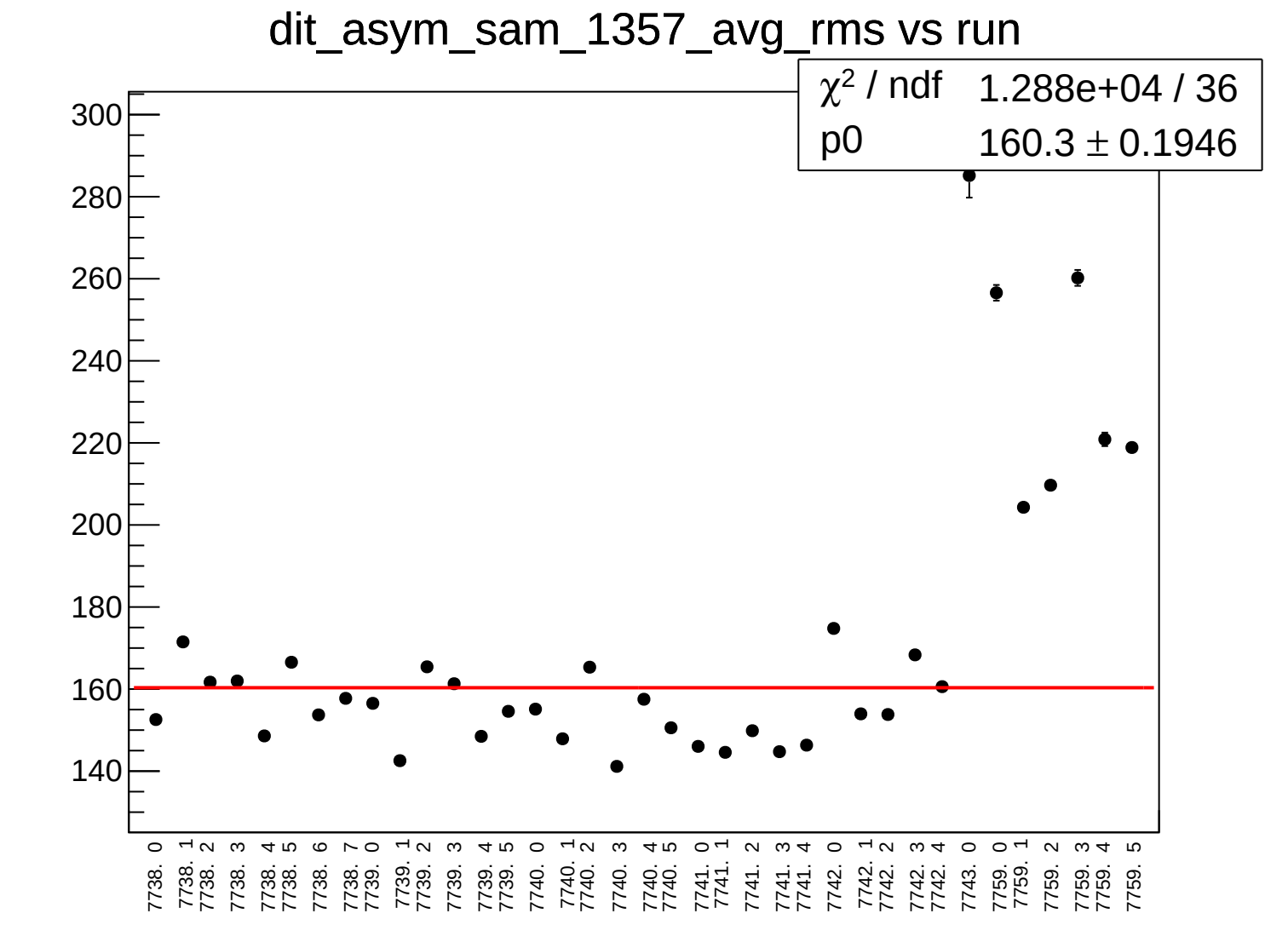

asym_sam_37_26_dd_mean vs run
χ² / ndf 39.24 / 36
p0 71.88 ± 337.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −169.6
Std Dev 184.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

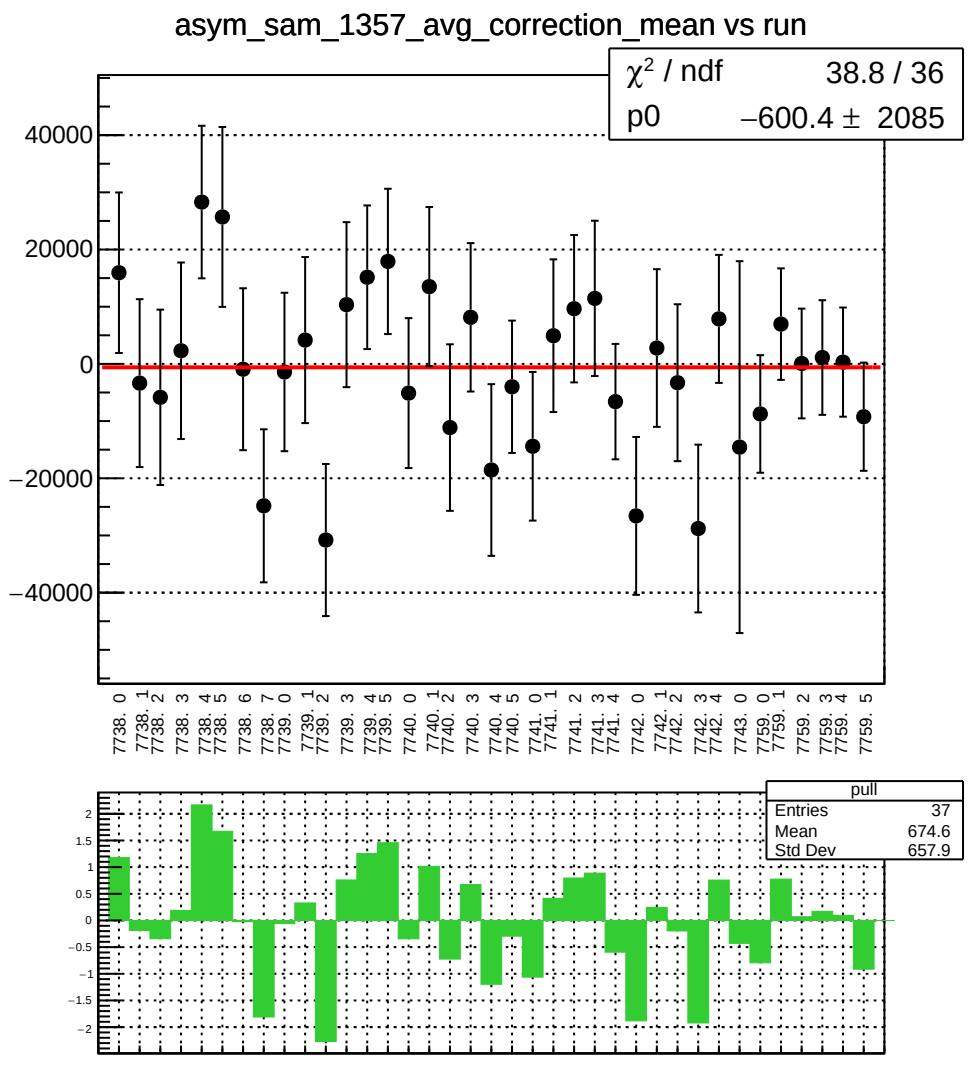

pull1D
Entries 37
Mean −0.01281
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

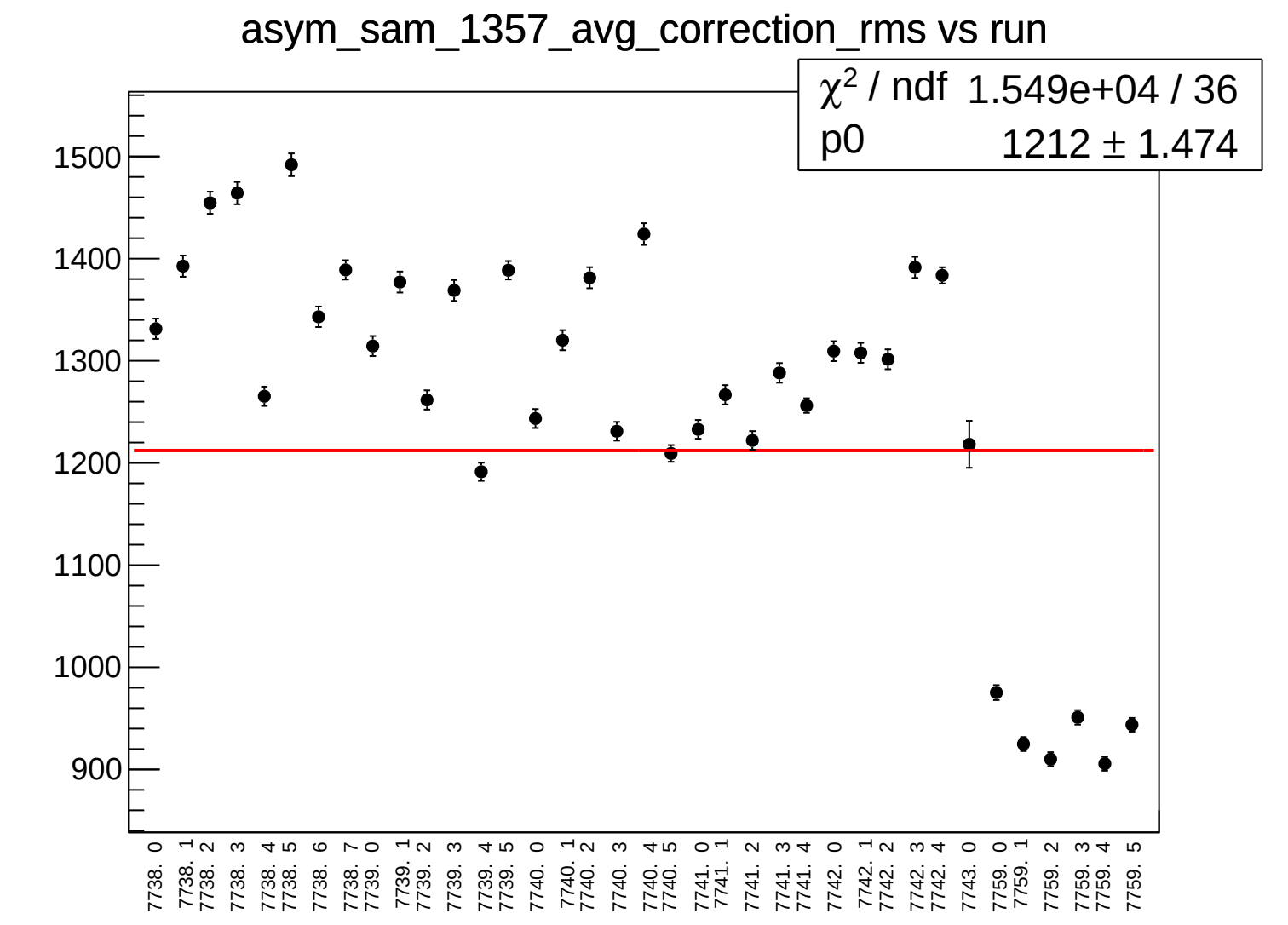

asym_sam_37_26_dd_rms vs run
χ² / ndf 2.596e+04 / 36
p0 194.8 ± 0.2388
350
300
250
200
150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

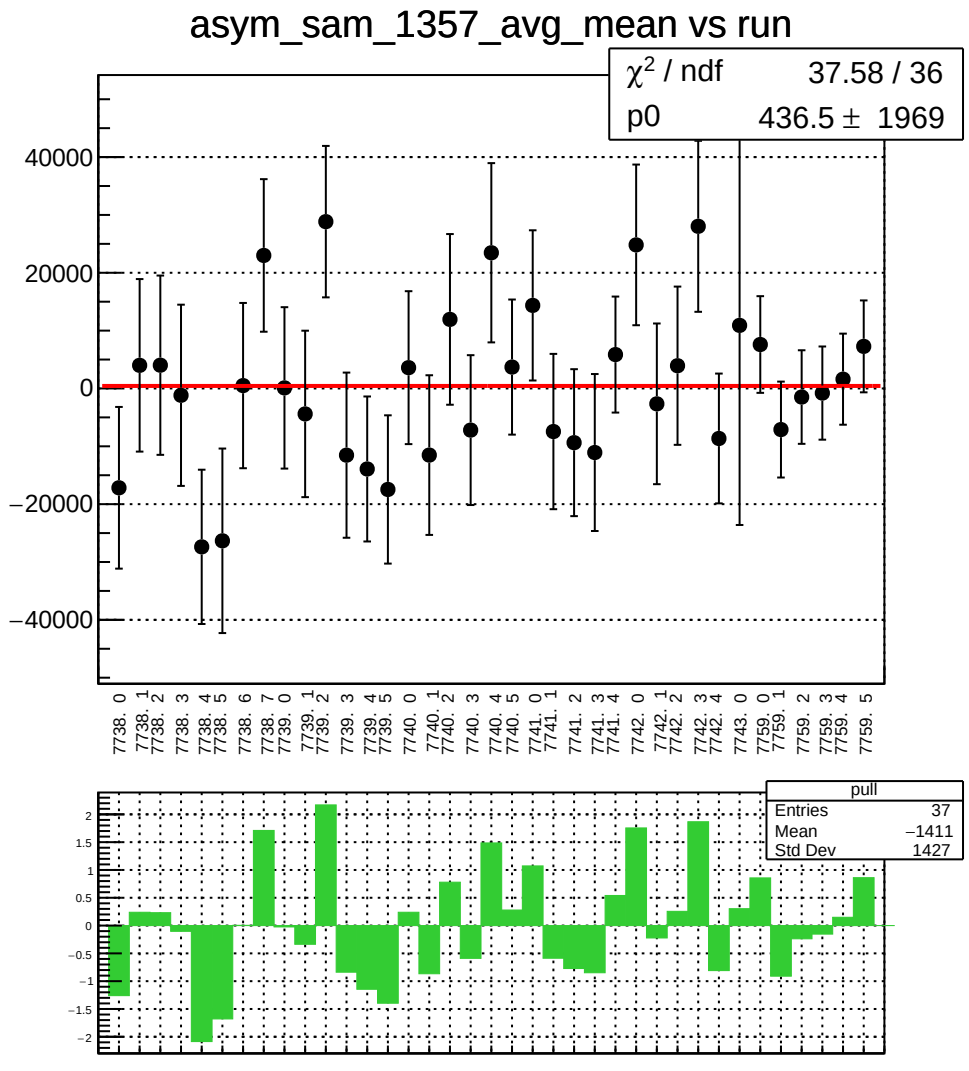

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 23.41 / 36
p0 −35.34 ± 275.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −99.7
Std Dev 99.79
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

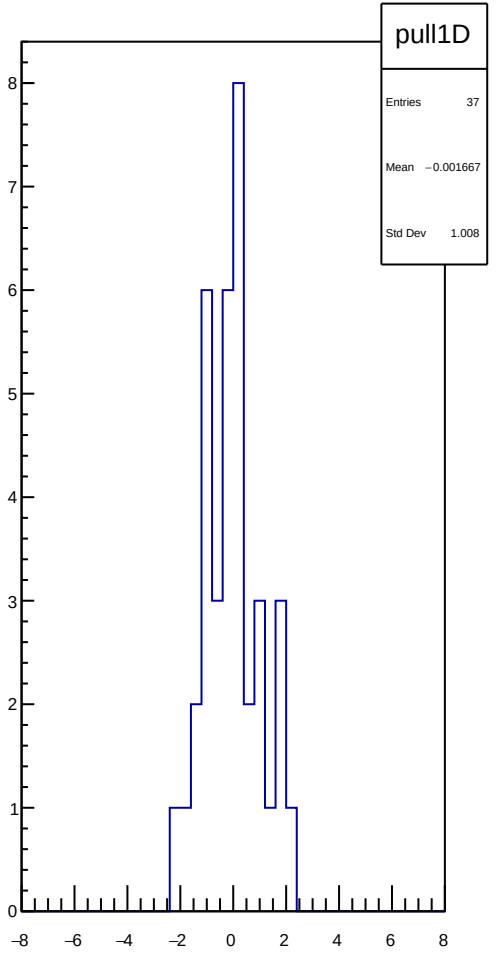

pull1D
Entries 37
Mean −0.004733
Std Dev 0.7954
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

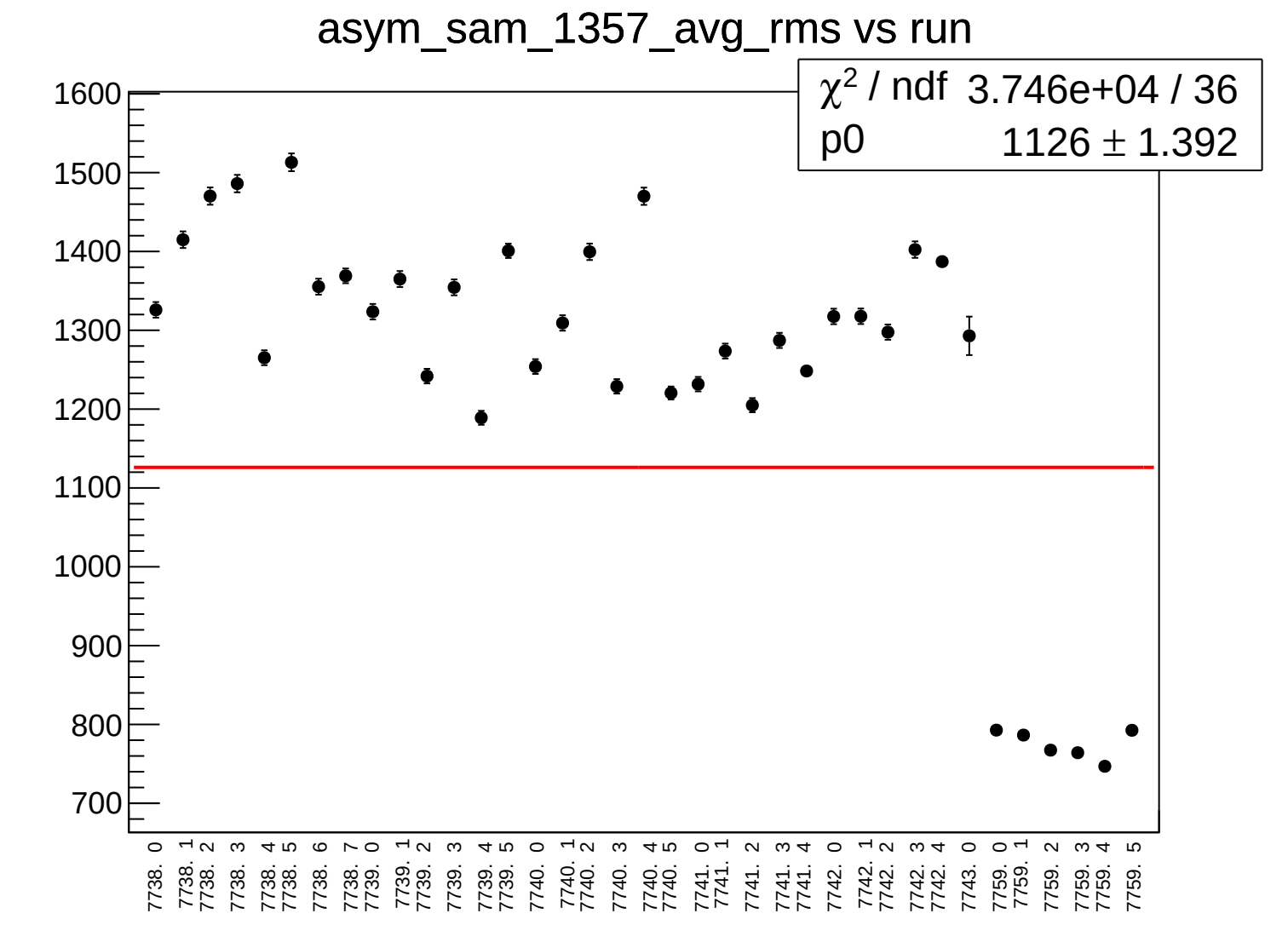

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.288e+04 / 36
p0 160.3 ± 0.1946
300
280
260
240
220
200
180
160
140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

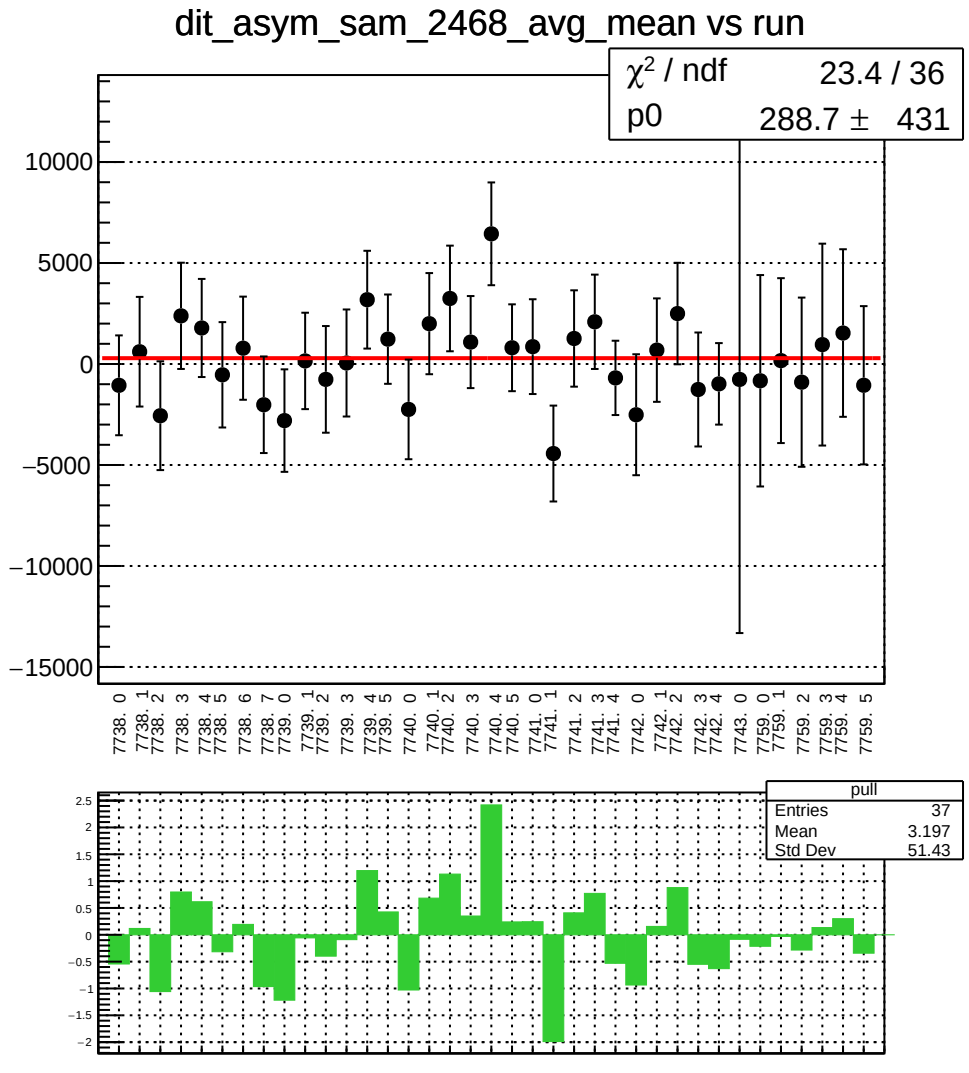

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 38.8 / 36
p0 −600.4 ± 2085
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 674.6
Std Dev 657.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.00367
Std Dev 1.024
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

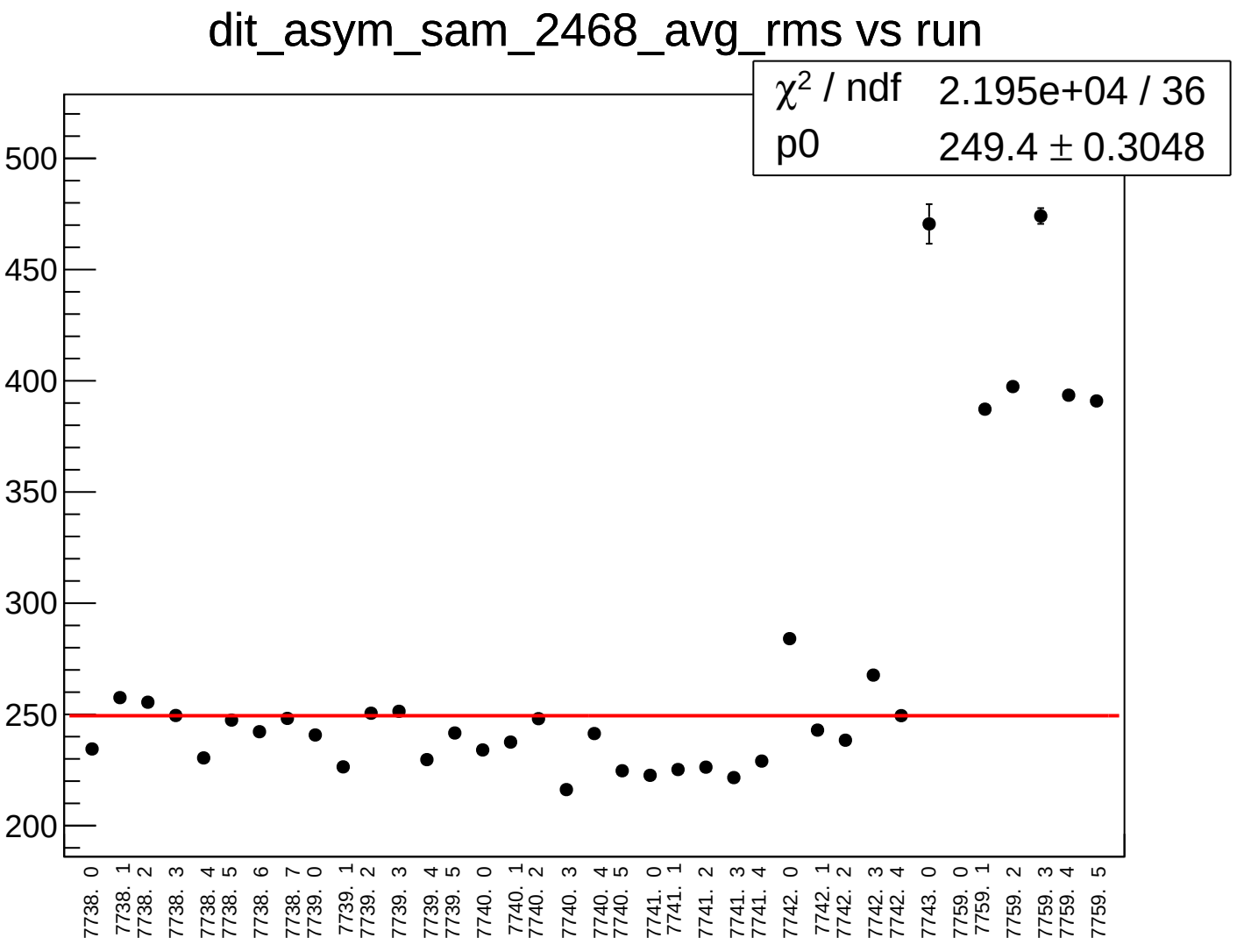

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.549e+04 / 36
p0 1212 ± 1.474
1500
1400
1300
1200
1100
1000
900
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

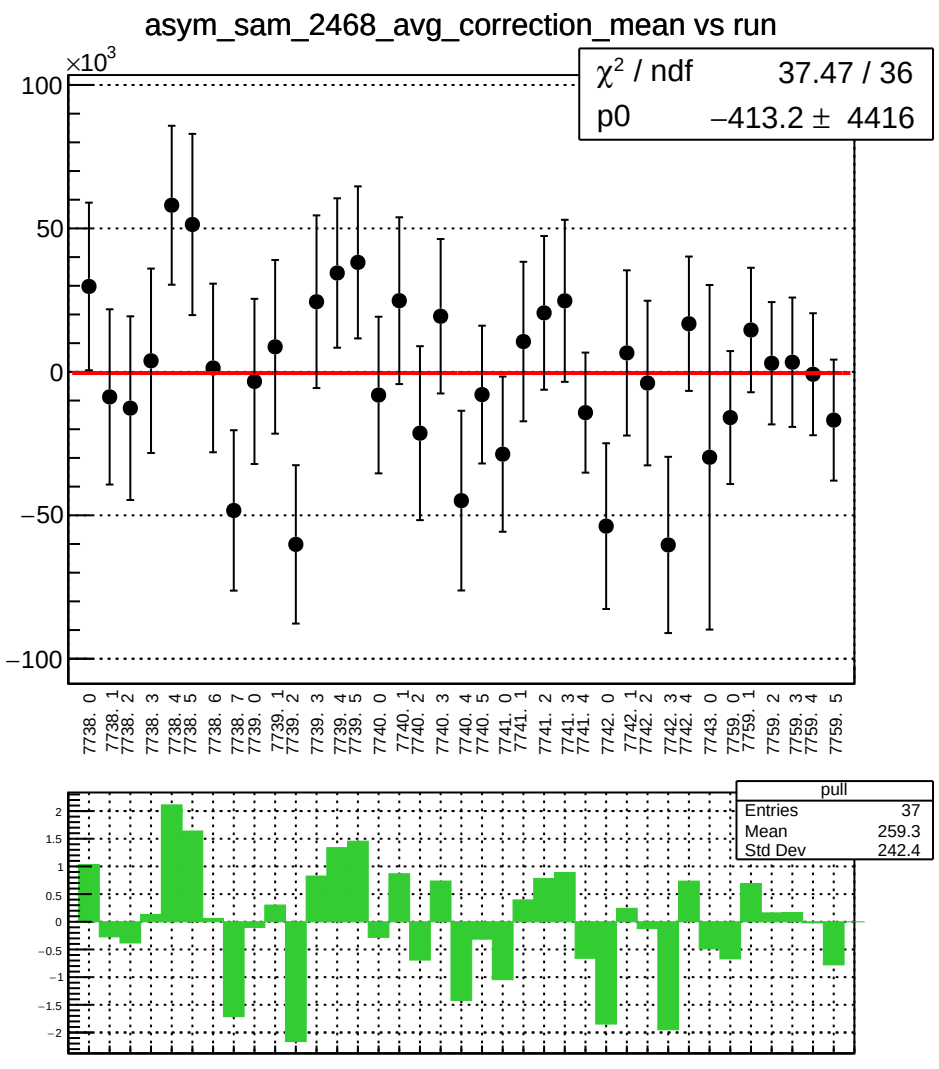

asym_sam_1357_avg_mean vs run
χ² / ndf 37.58 / 36
p0 436.5 ± 1969
40000
20000
0
−20000
−40000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1411
Std Dev 1427
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

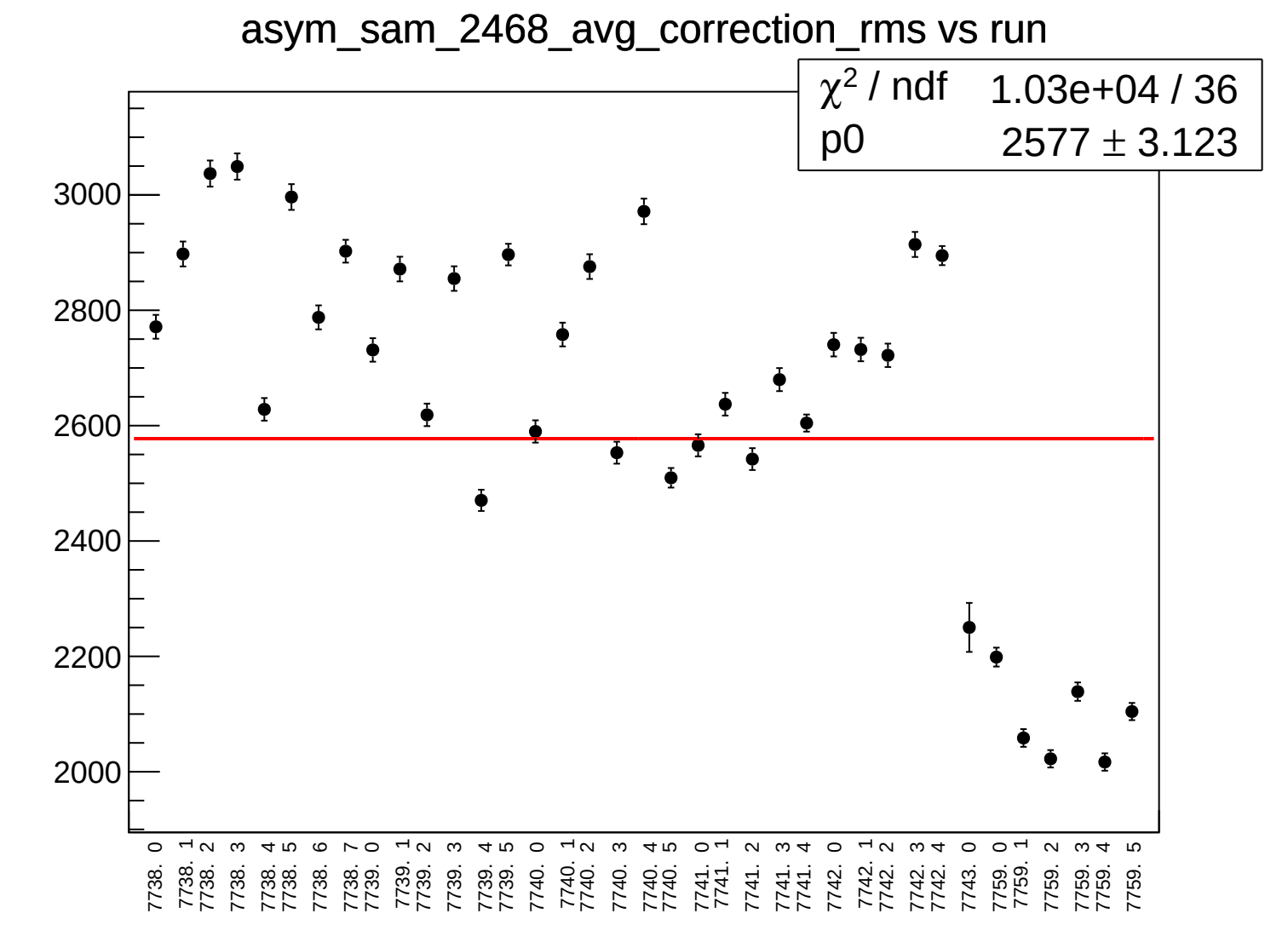

pull1D
Entries 37
Mean −0.001667
Std Dev 1.008
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

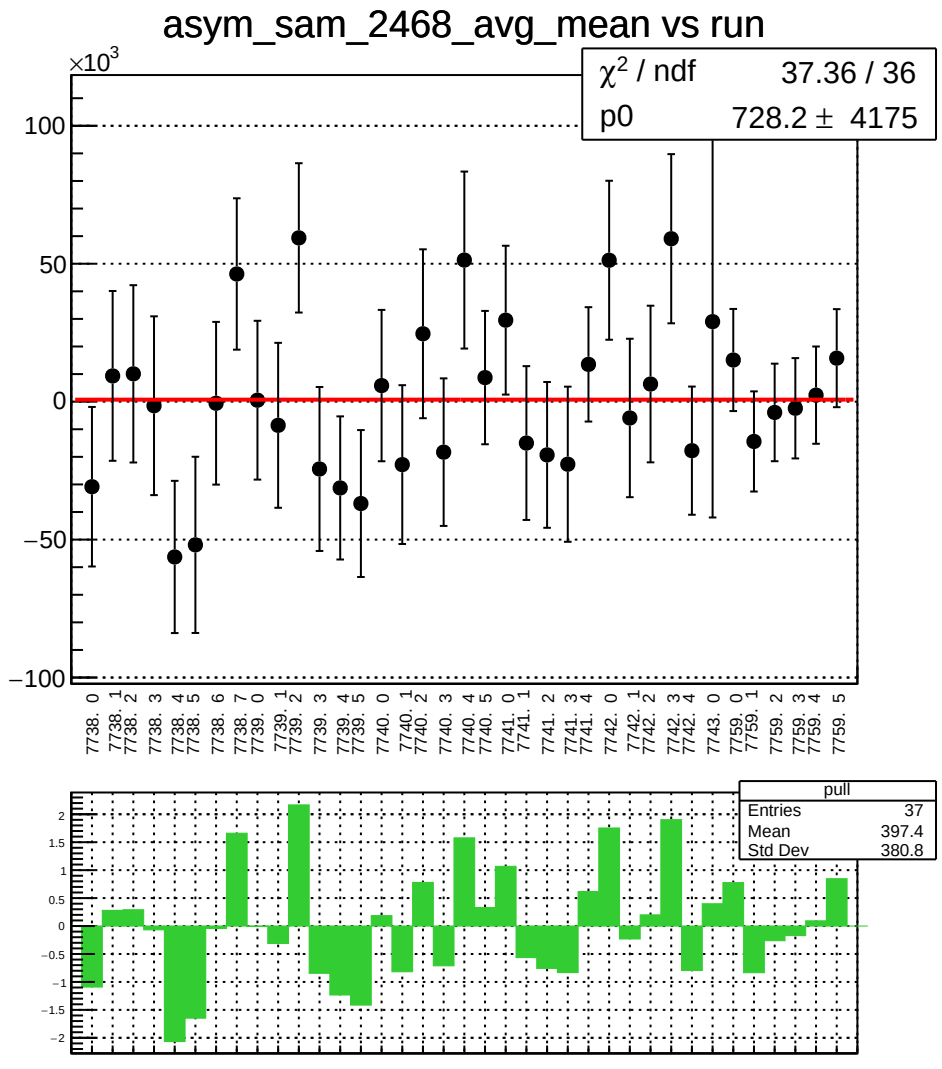

asym_sam_1357_avg_rms vs run
χ² / ndf 3.746e+04 / 36
p0 1126 ± 1.392
1600
1500
1400
1300
1200
1100
1000
900
800
700
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

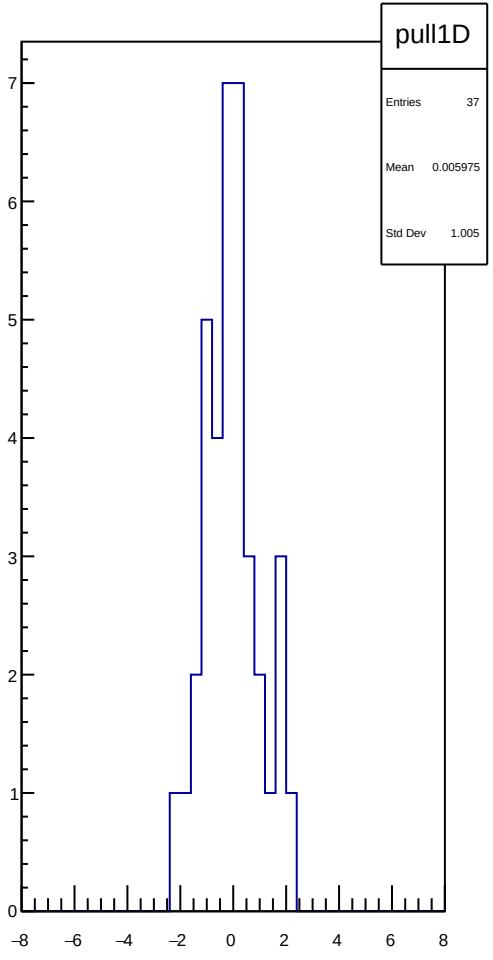

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 23.4 / 36
p0 288.7 ± 431
10000
5000
0
−5000
−10000
−15000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 3.197
Std Dev 51.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.005414
Std Dev 0.7952
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

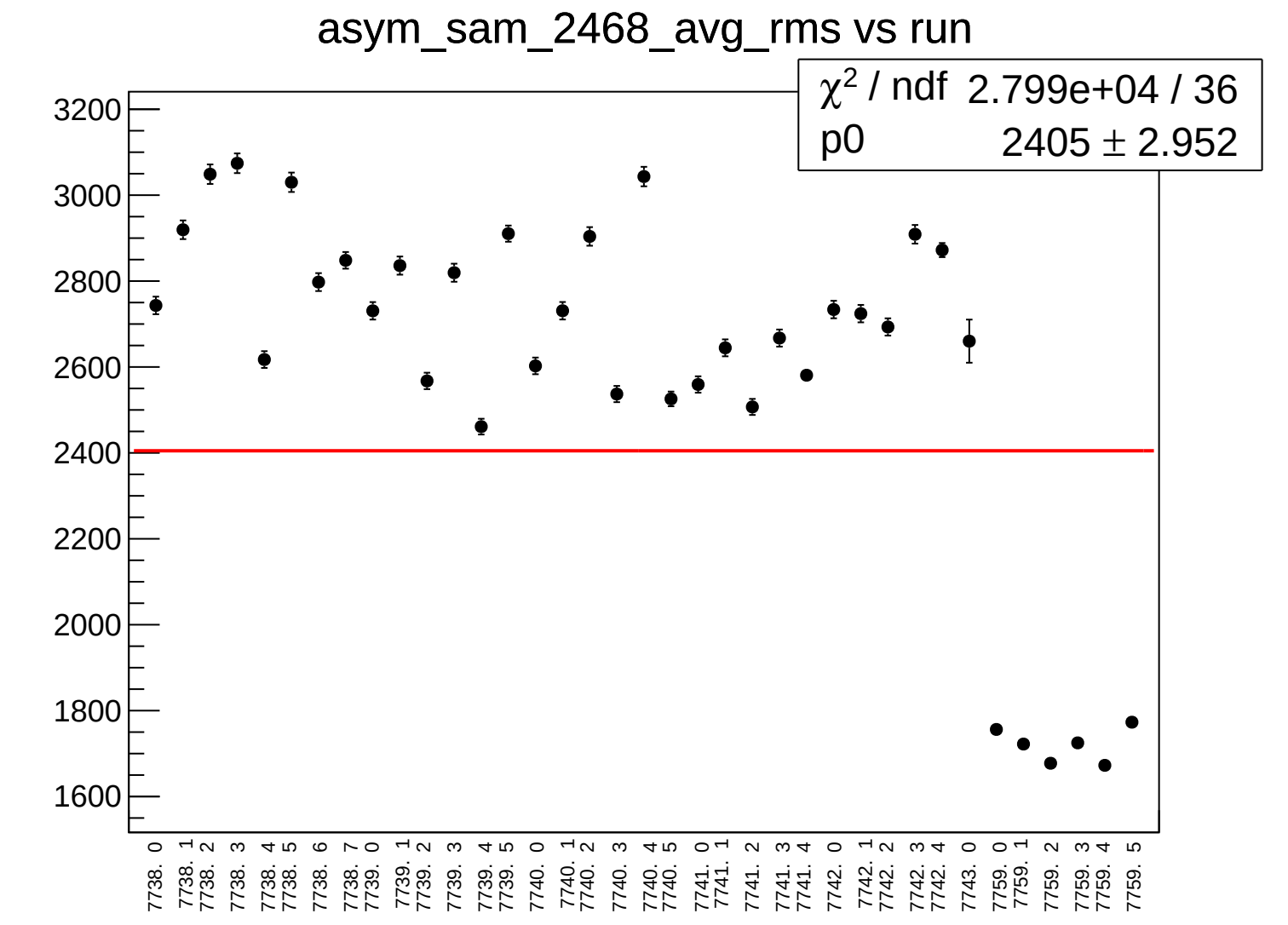

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.195e+04 / 36
p0 249.4 ± 0.3048
500
450
400
350
300
250
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

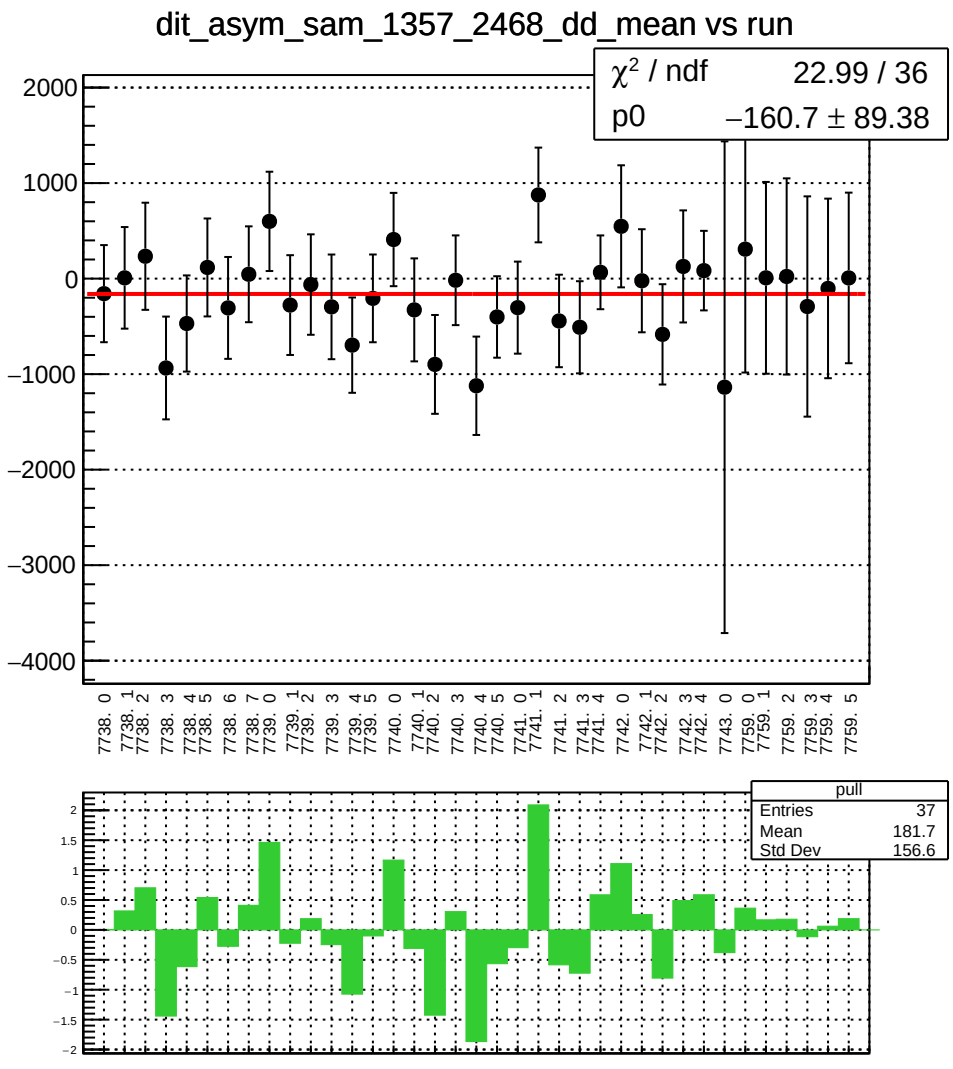

asym_sam_2468_avg_correction_mean vs run
×10^3
χ² / ndf 37.47 / 36
p0 −413.2 ± 4416
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 259.3
Std Dev 242.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.009447
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

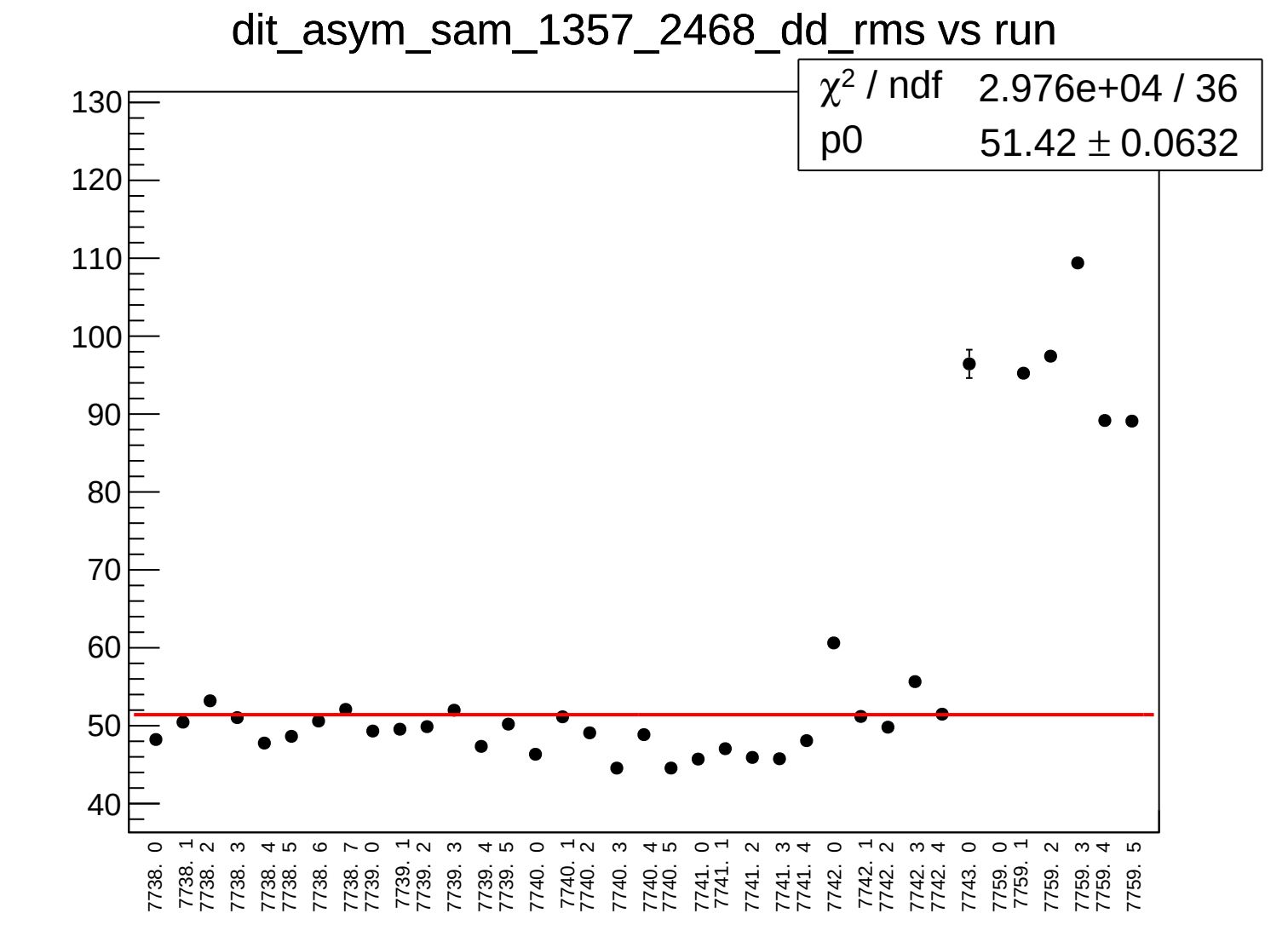

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 1.03e+04 / 36
p0 2577 ± 3.123
3000
2800
2600
2400
2200
2000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

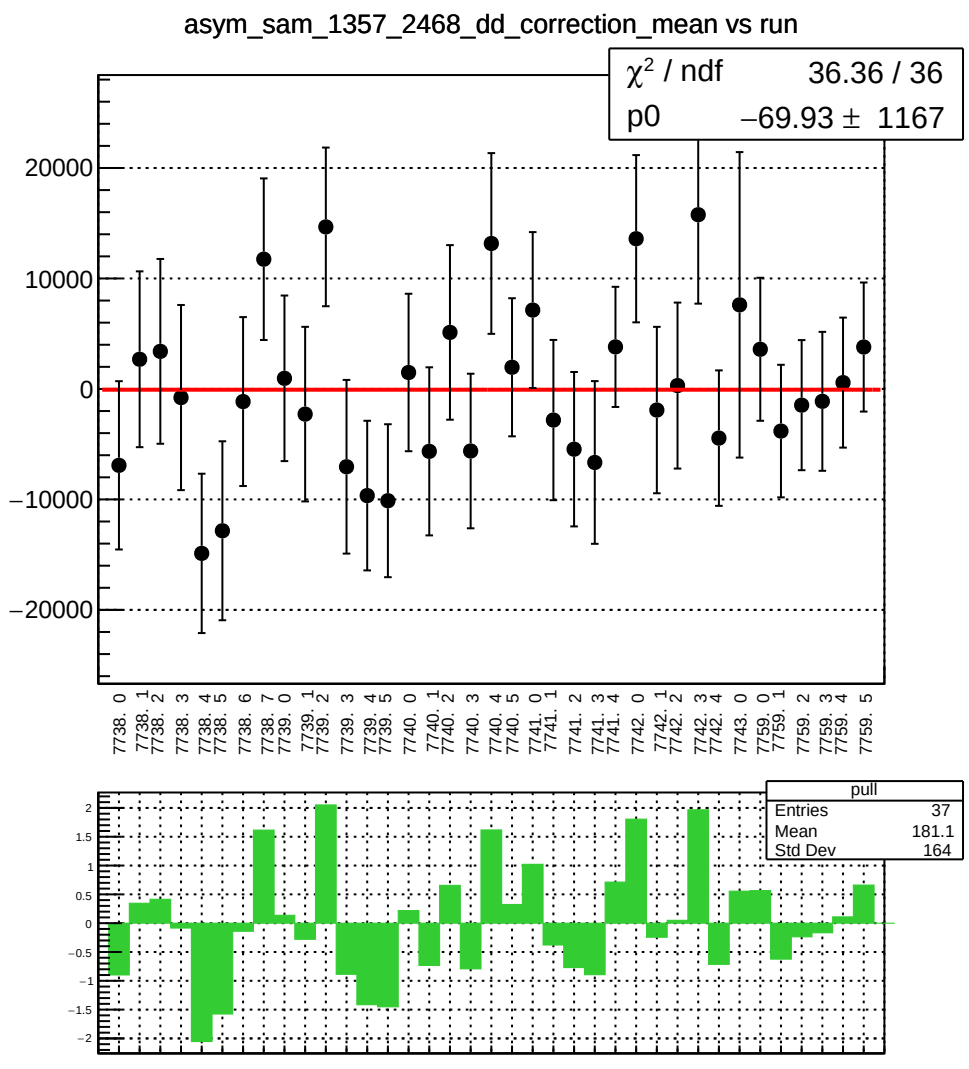

asym_sam_2468_avg_mean vs run
×10^3
χ² / ndf 37.36 / 36
p0 728.2 ± 4175
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 397.4
Std Dev 380.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

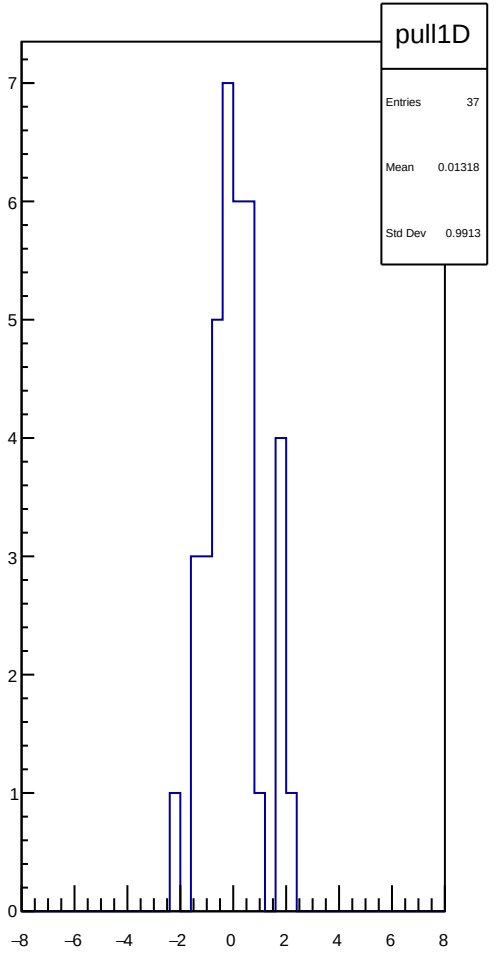

pull1D
Entries 37
Mean 0.005975
Std Dev 1.005
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

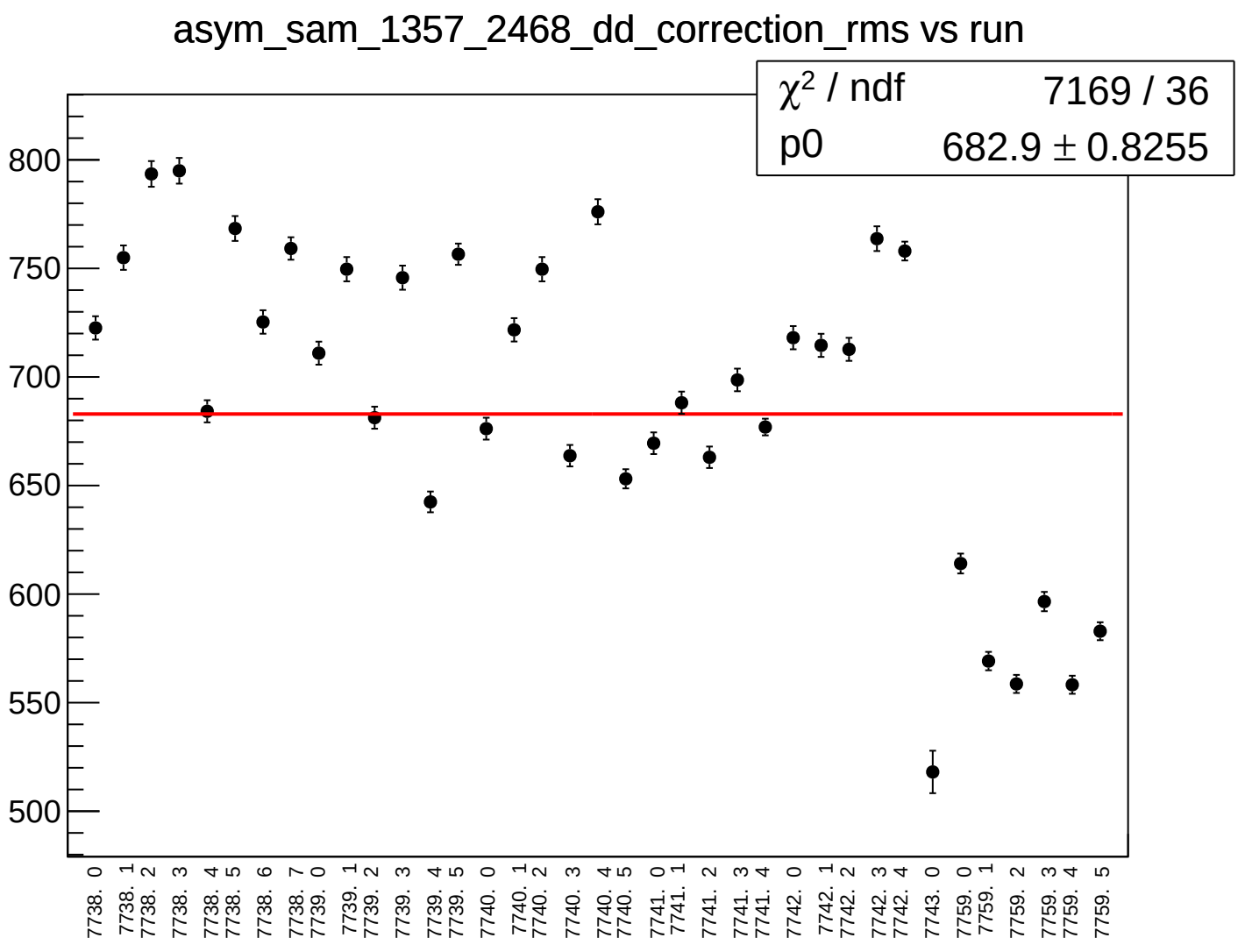

asym_sam_2468_avg_rms vs run
χ² / ndf 2.799e+04 / 36
p0 2405 ± 2.952
3200
3000
2800
2600
2400
2200
2000
1800
1600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

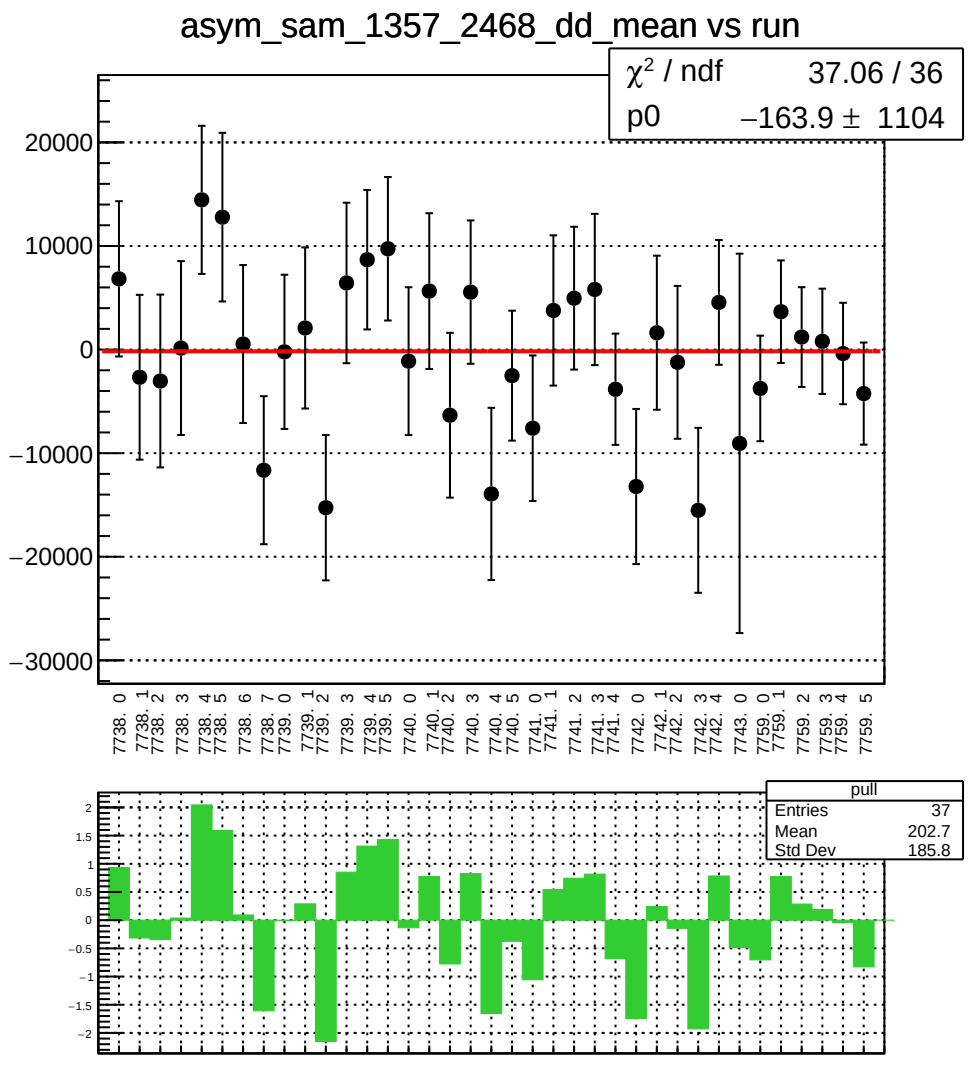

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 22.99 / 36
p0 −160.7 ± 89.38
2000
1000
0
−1000
−2000
−3000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.7
Std Dev 156.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.0038
Std Dev 0.7883
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

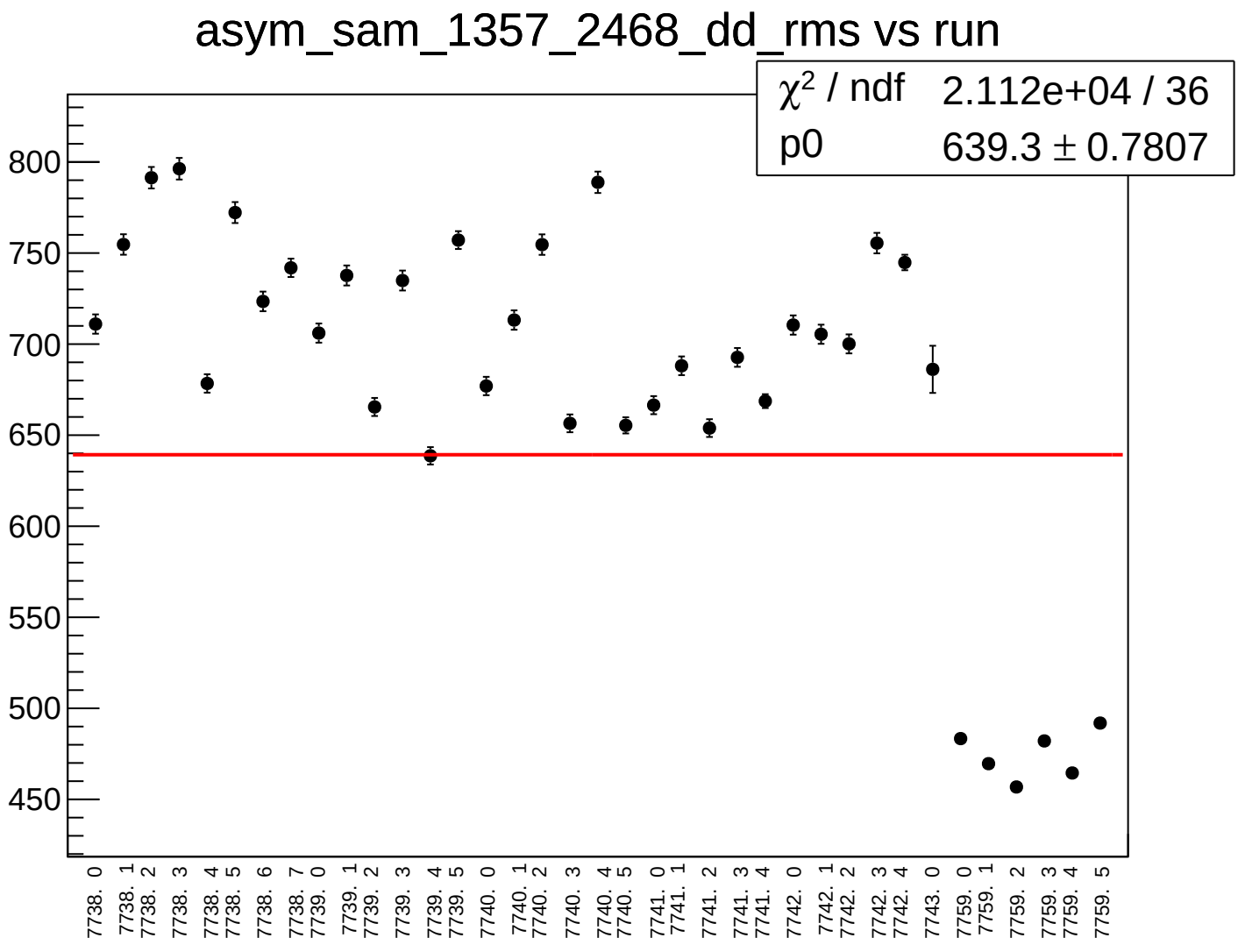

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.976e+04 / 36
p0 51.42 ± 0.0632
130
120
110
100
90
80
70
60
50
40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

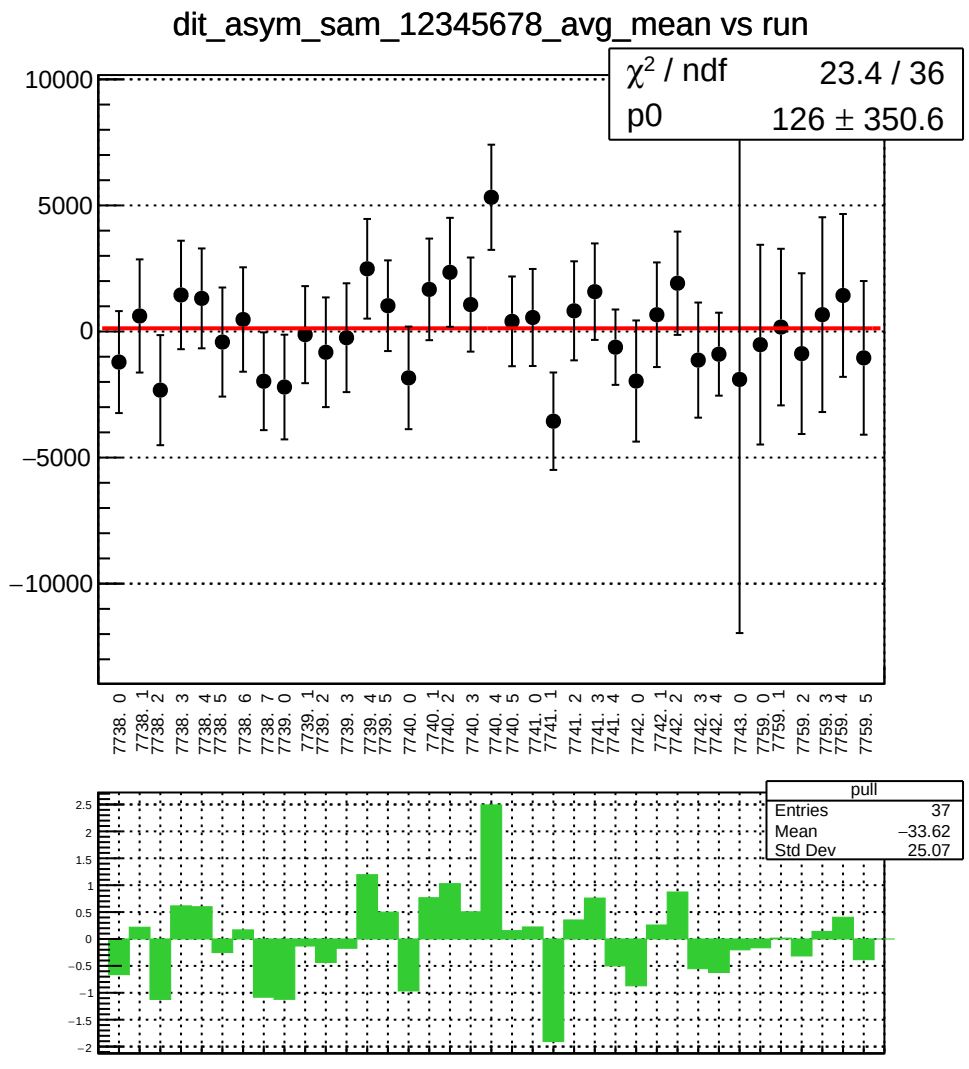

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 36.36 / 36
p0 −69.93 ± 1167
20000
10000
0
−10000
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 181.1
Std Dev 164
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

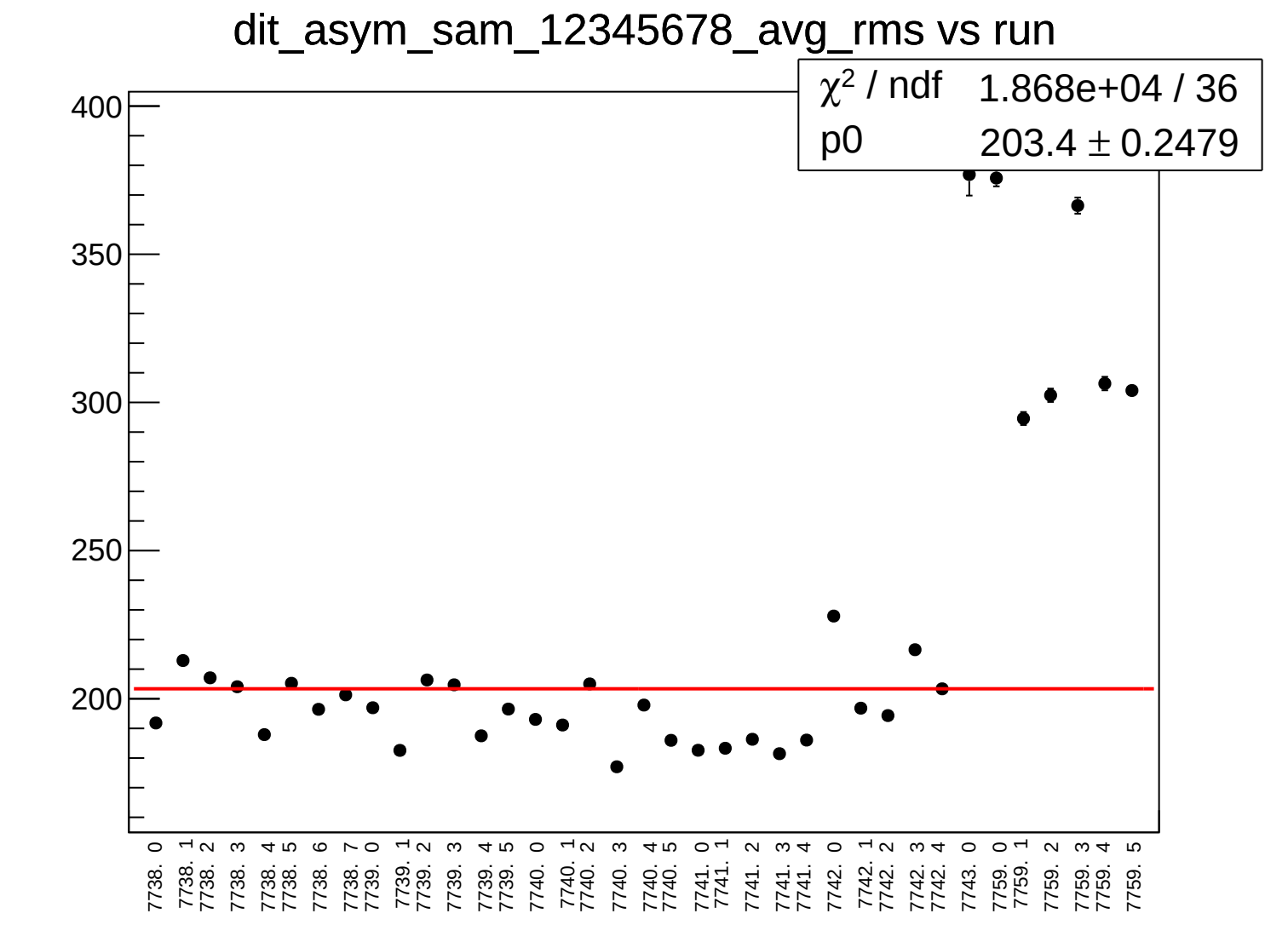

pull1D
Entries 37
Mean 0.01318
Std Dev 0.9913
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

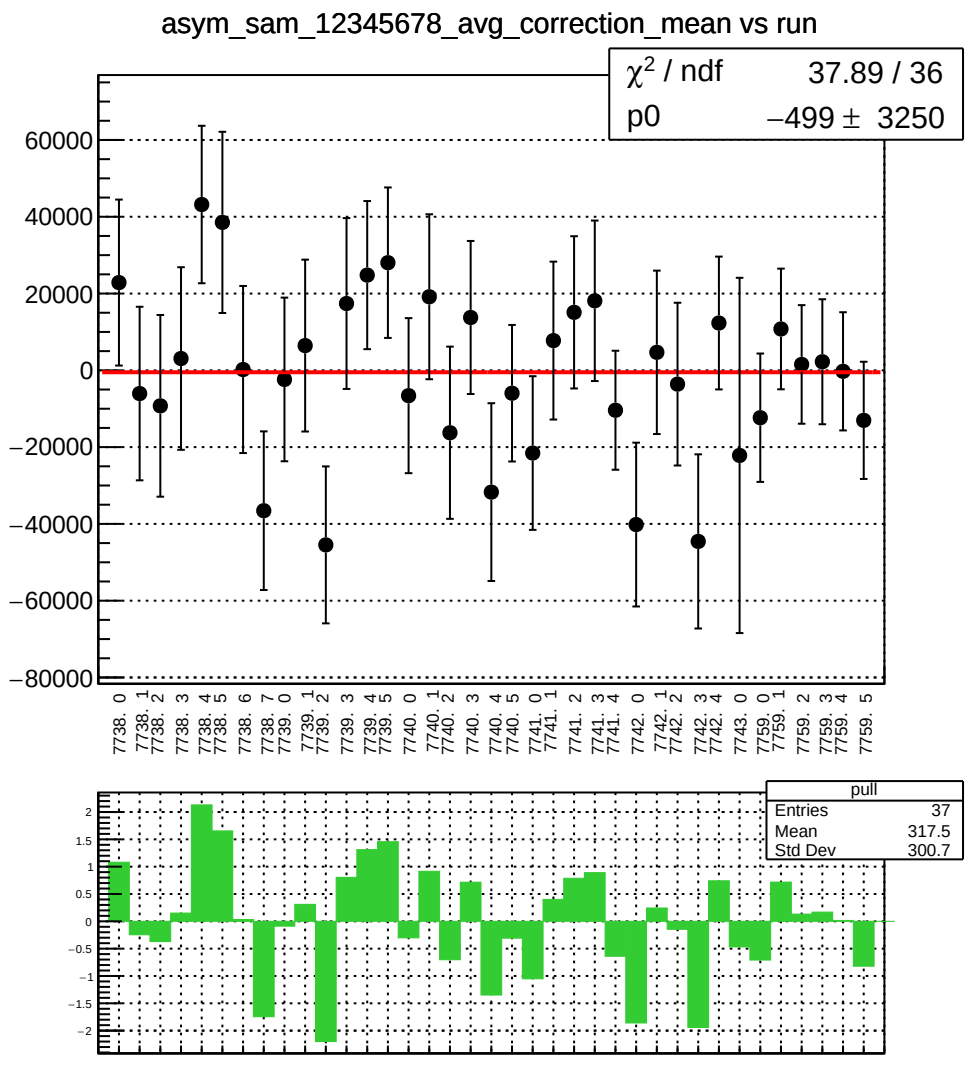

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 7169 / 36
p0 682.9 ± 0.8255
800
750
700
650
600
550
500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5

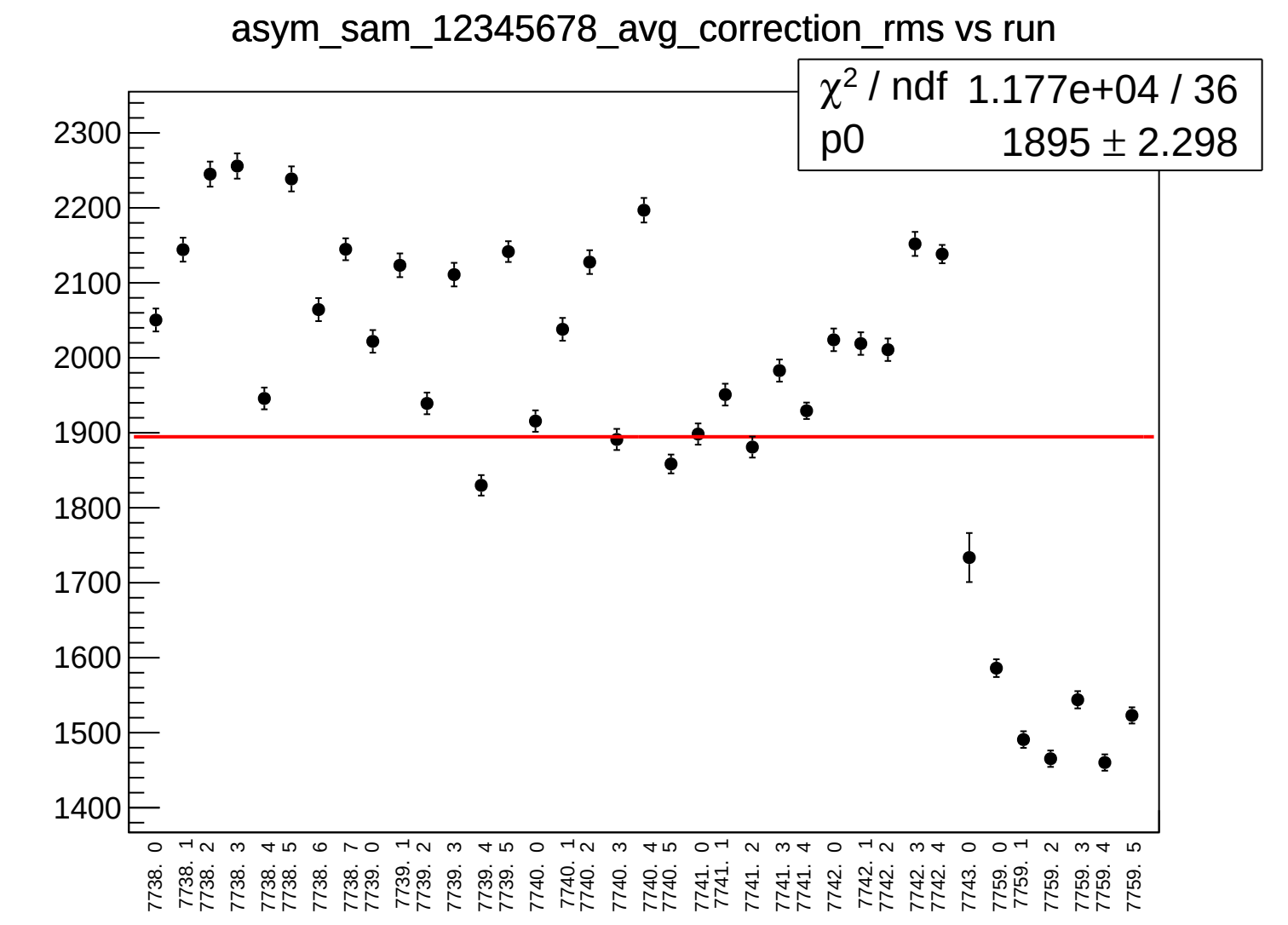

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 37.06 / 36
p0 −163.9 ± 1104
20000
10000
0
−10000
−20000
−30000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 202.7
Std Dev 185.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.01163
Std Dev 1.001
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.112e+04 / 36
p0 639.3 ± 0.7807
800
750
700
650
600
550
500
450
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 23.4 / 36
p0 126 ± 350.6
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −33.62
Std Dev 25.07
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.005099
Std Dev 0.7952
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 1.868e+04 / 36
p0 203.4 ± 0.2479
400
350
300
250
200
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5


asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 37.89 / 36
p0 −499 ± 3250
60000
40000
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 317.5
Std Dev 300.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.007757
Std Dev 1.012
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 1.177e+04 / 36
p0 1895 ± 2.298
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
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17741. 2
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17742. 0
17742. 1
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17742. 4
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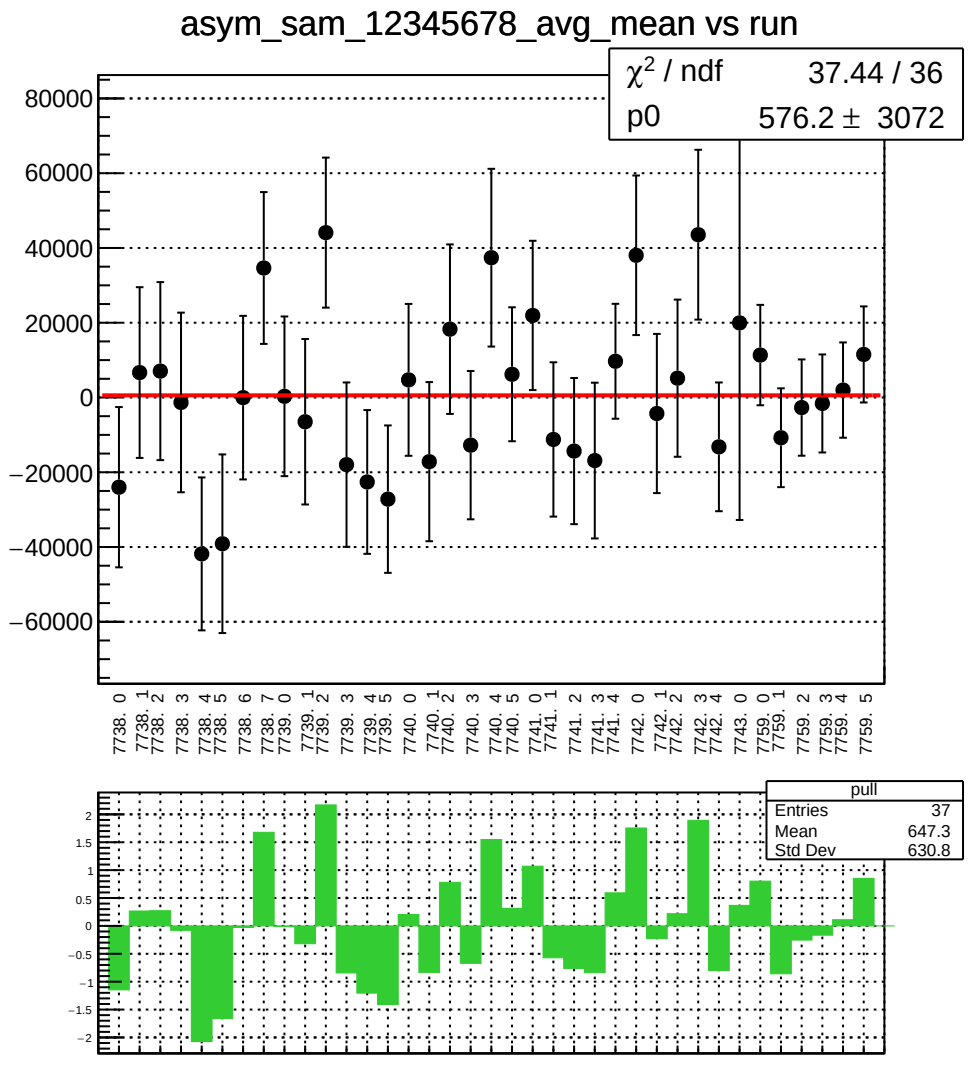
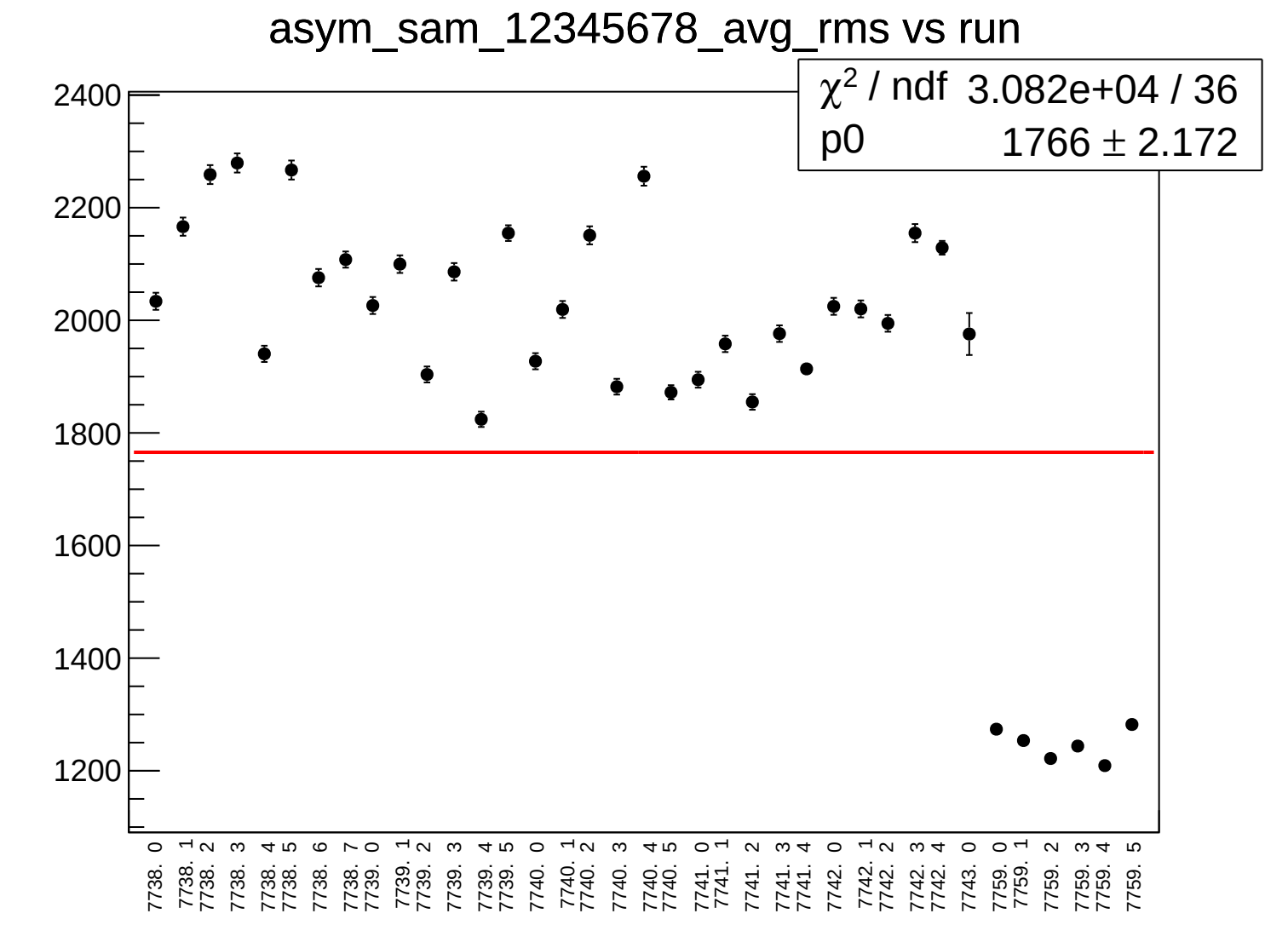
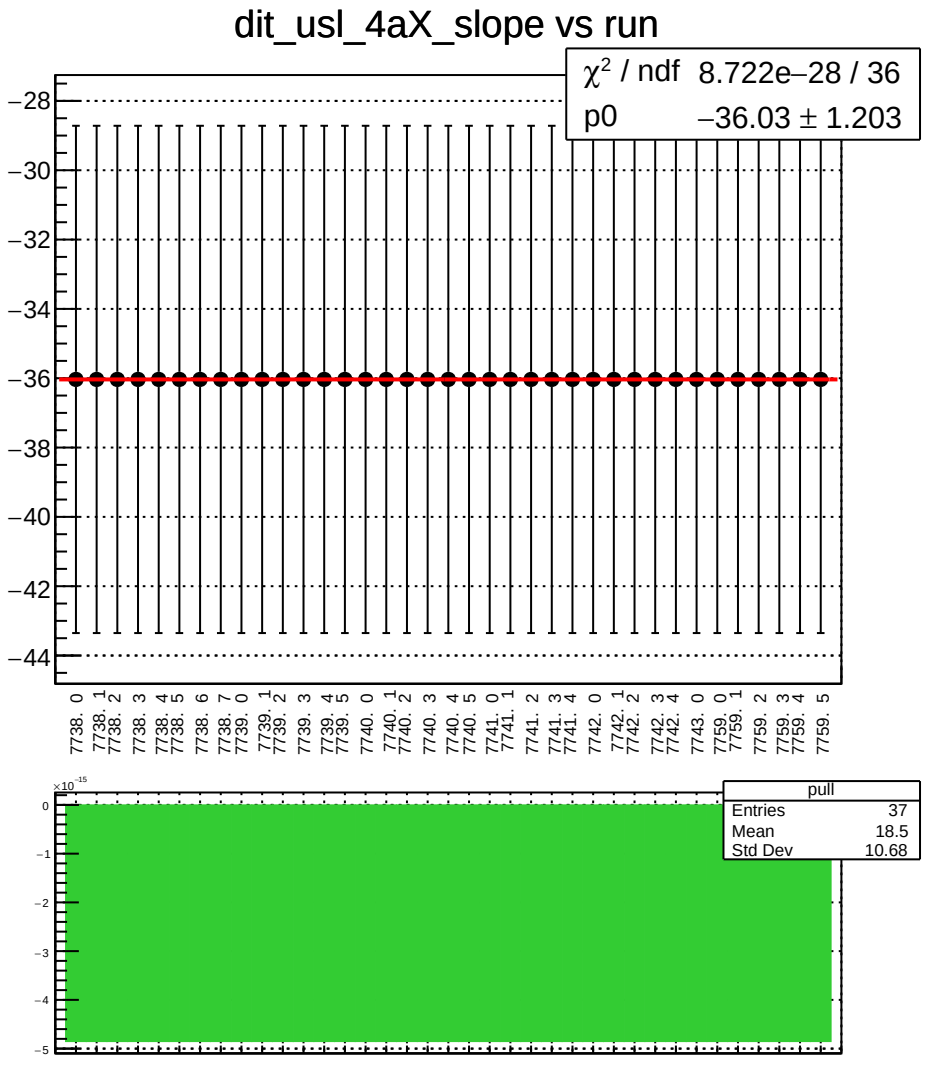
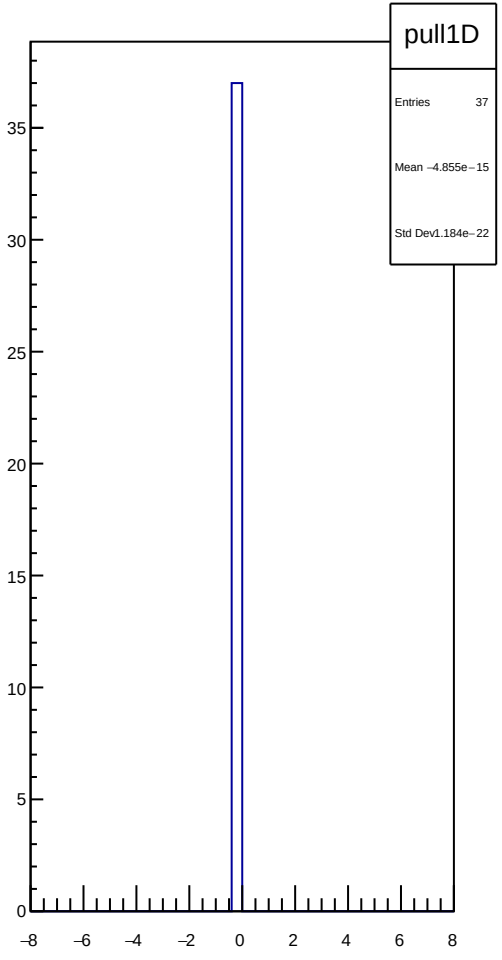
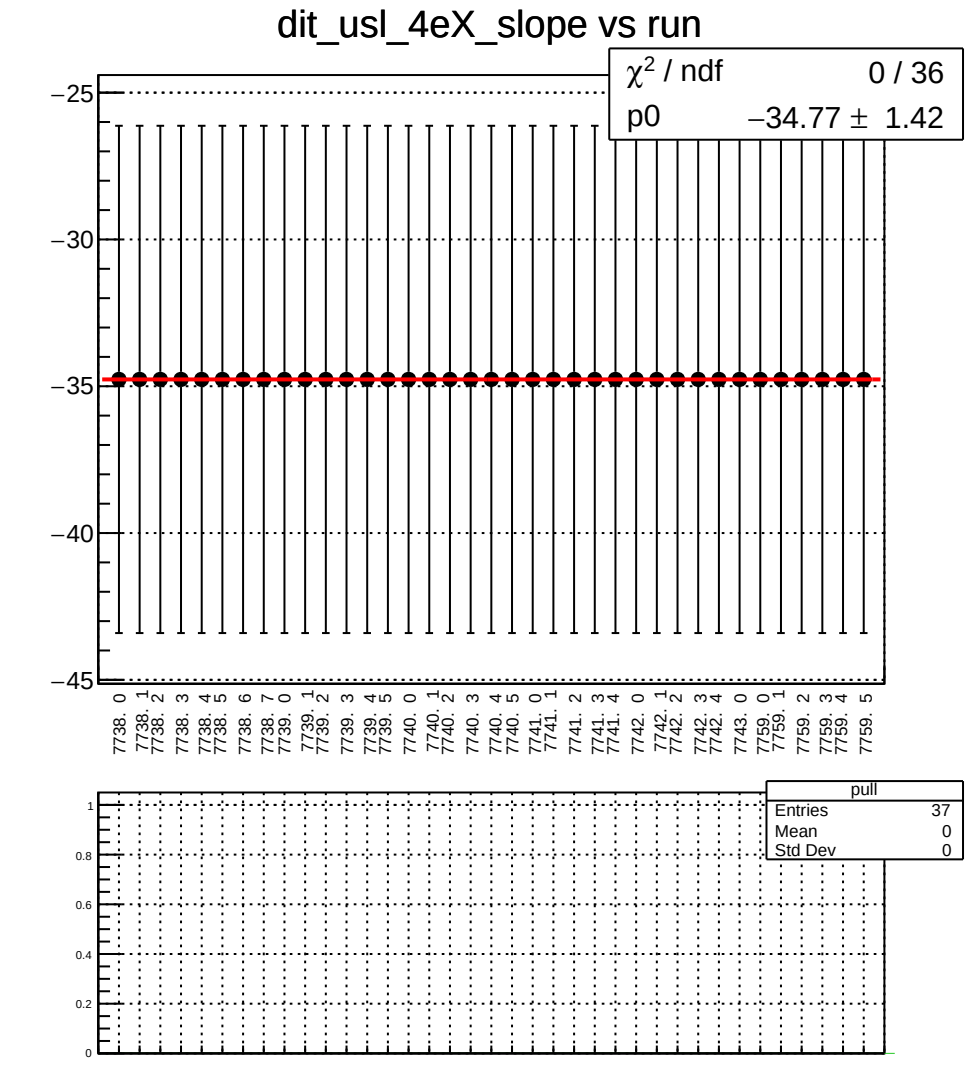
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

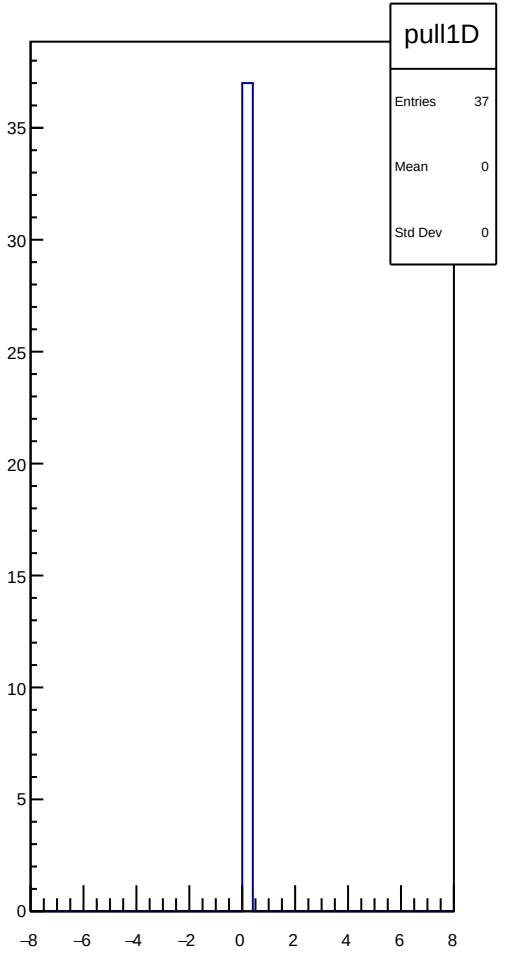

asym_sam_12345678_avg_mean vs run
χ² / ndf 37.44 / 36
p0 576.2 ± 3072
80000
60000
40000
20000
0
−20000
−40000
−60000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 647.3
Std Dev 630.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.003664
Std Dev 1.006
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

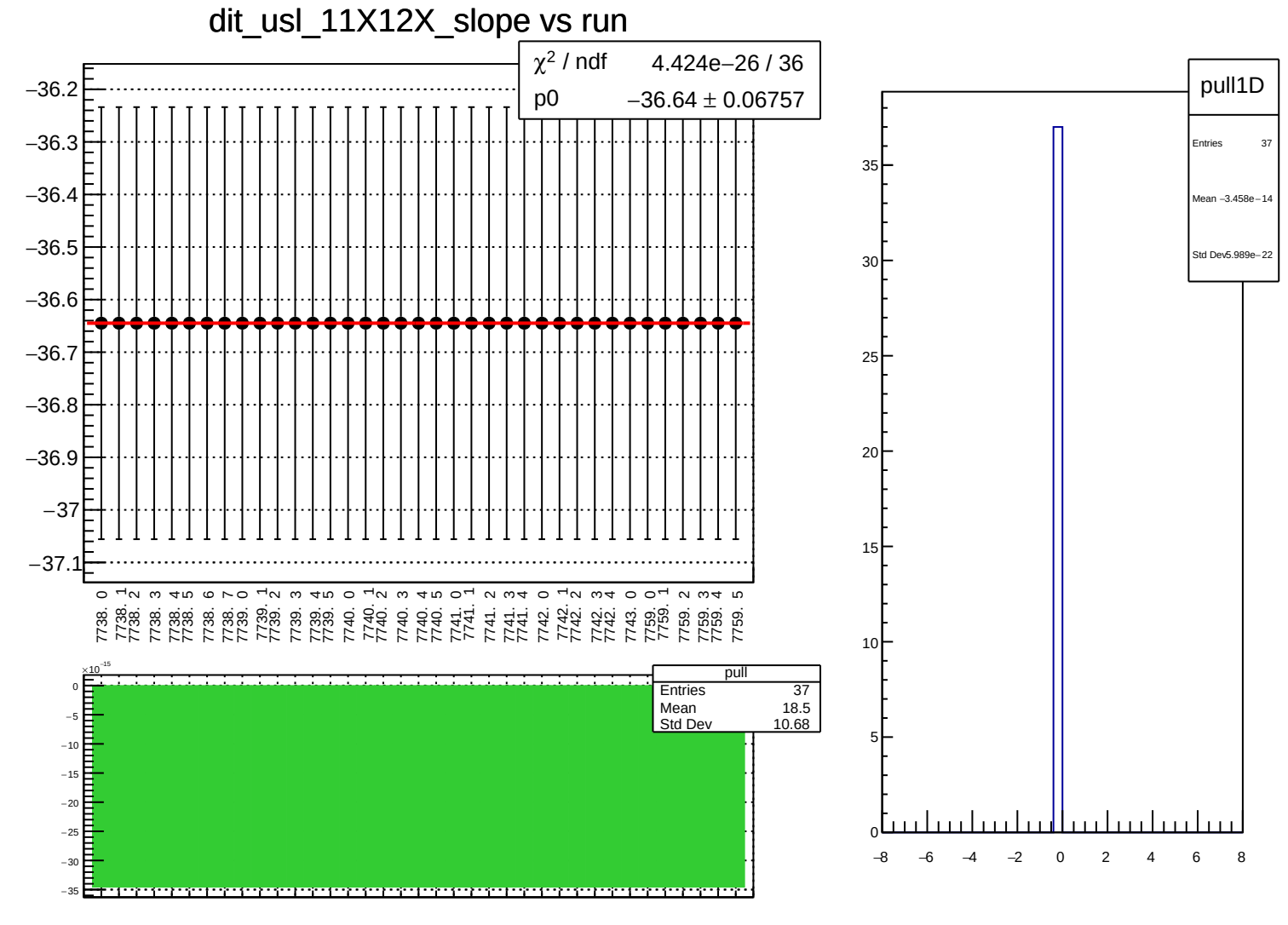

asym_sam_12345678_avg_rms vs run
χ² / ndf 3.082e+04 / 36
p0 1766 ± 2.172
2400
2200
2000
1800
1600
1400
1200
17738. 0
17738. 1
17738. 2
17738. 3
17738. 4
17738. 5
17738. 6
17738. 7
17739. 0
17739. 1
17739. 2
17739. 3
17739. 4
17739. 5
17740. 0
17740. 1
17740. 2
17740. 3
17740. 4
17740. 5
17741. 0
17741. 1
17741. 2
17741. 3
17741. 4
17742. 0
17742. 1
17742. 2
17742. 3
17742. 4
17743. 0
17759. 0
17759. 1
17759. 2
17759. 3
17759. 4
17759. 5

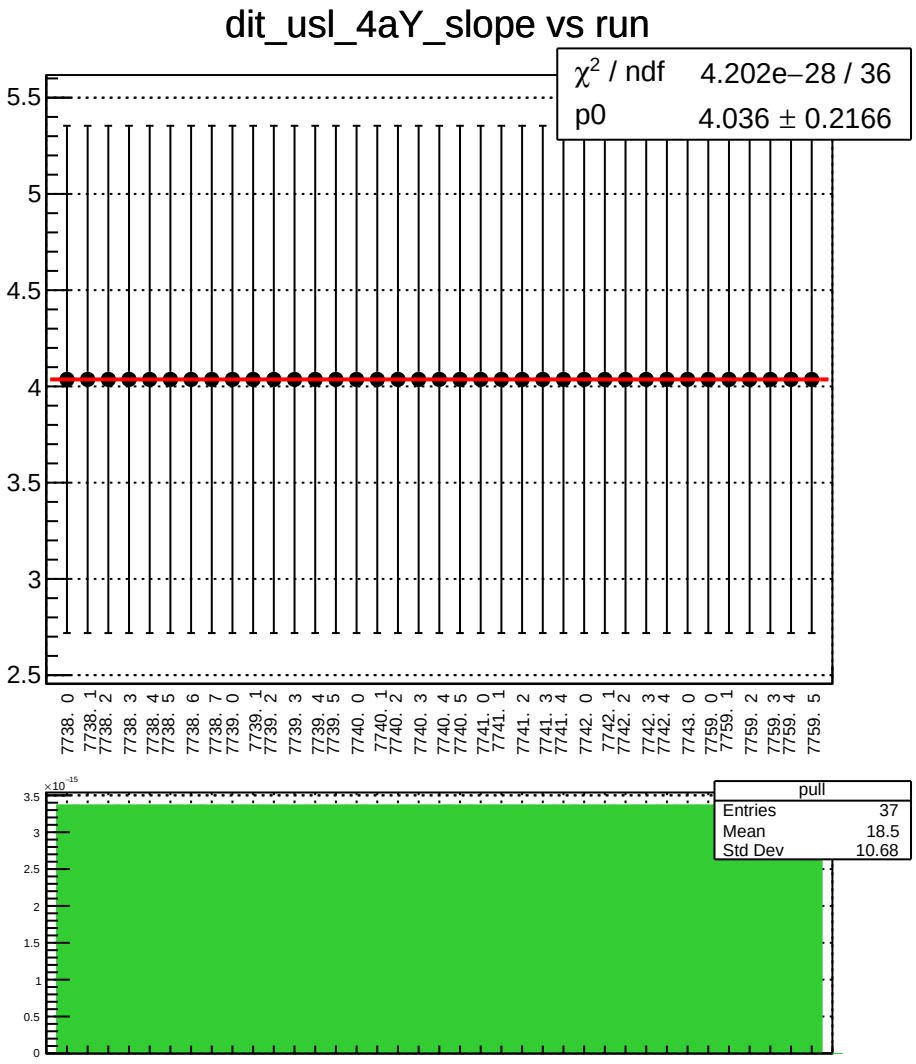

dit_usl_4aX_slope vs run
χ² / ndf 8.722e−28 / 36
p0 −36.03 ± 1.203
−28
−30
−32
−34
−36
−38
−40
−42
−44
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 37
Mean 18.5
Std Dev 10.68

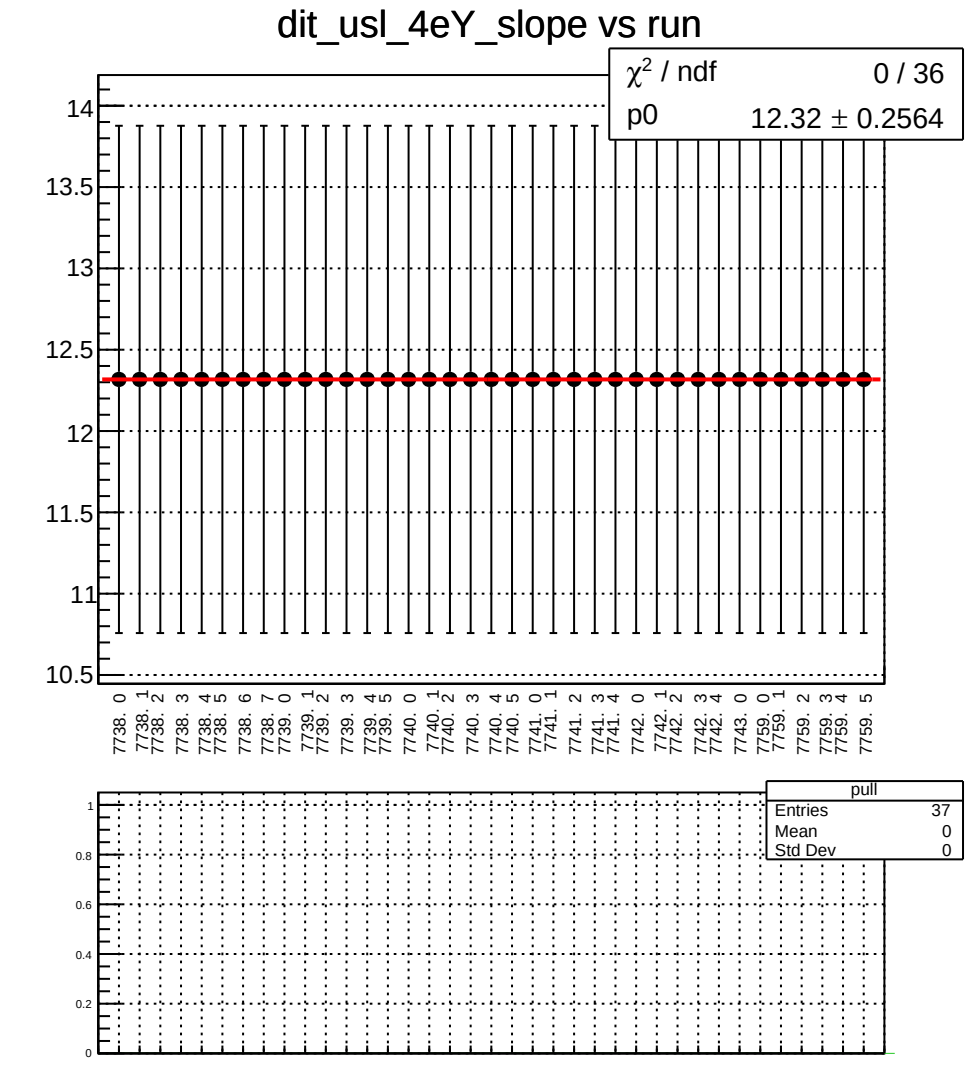

pull1D
Entries 37
Mean −4.855e−15
Std Dev1.184e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

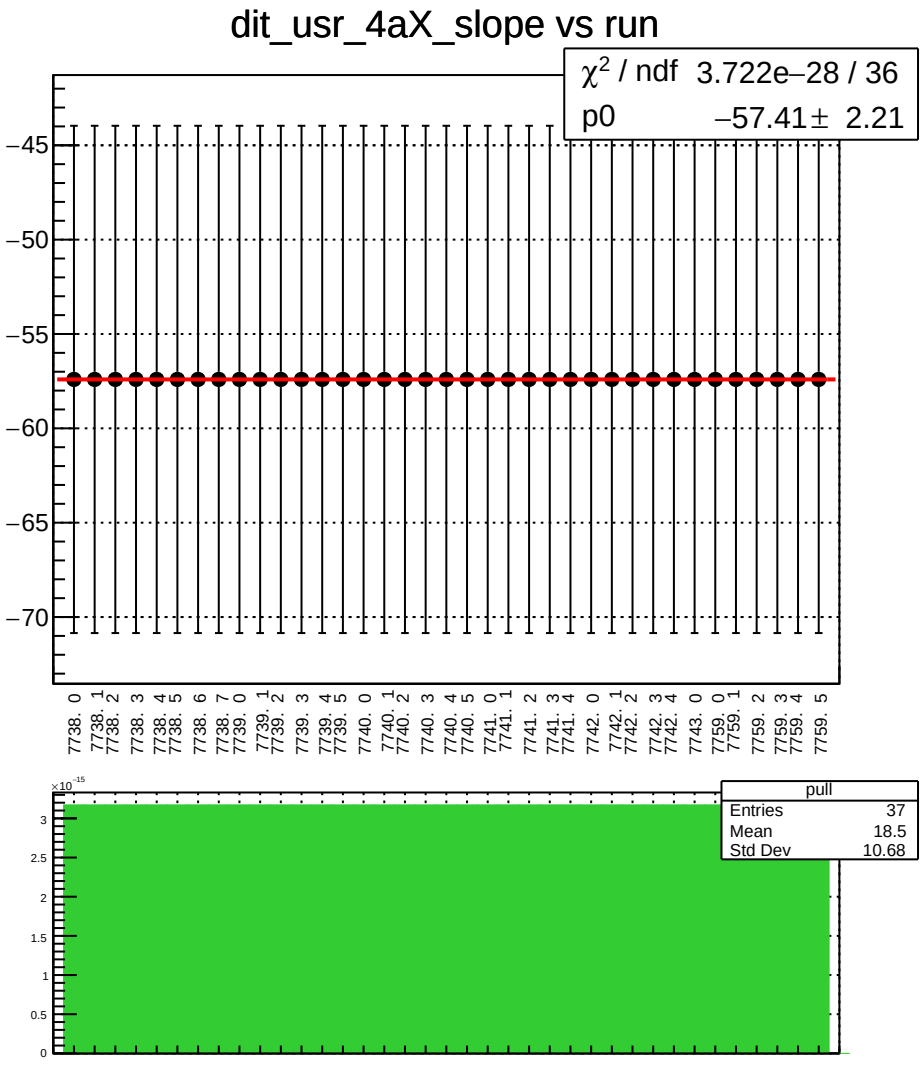

dit_usl_4eX_slope vs run
χ² / ndf 0 / 36
p0 −34.77 ± 1.42
−25
−30
−35
−40
−45
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

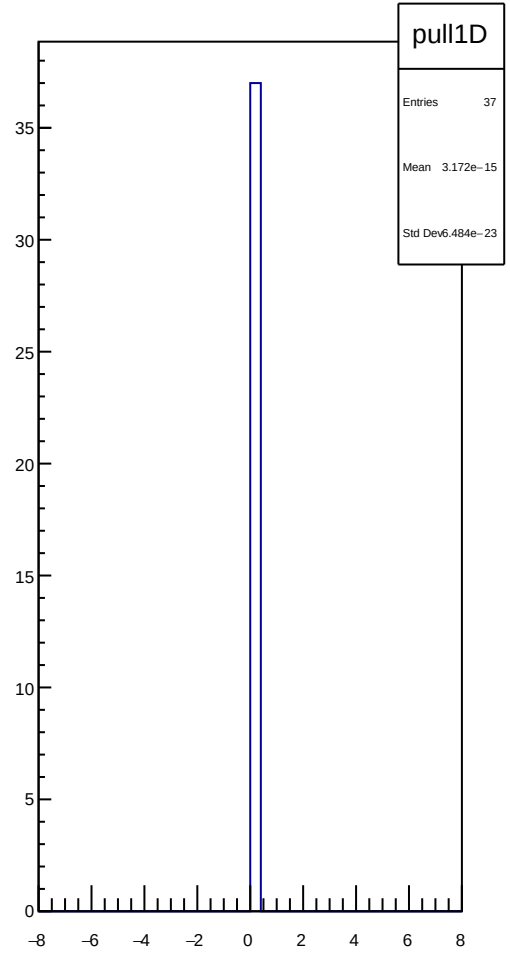

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

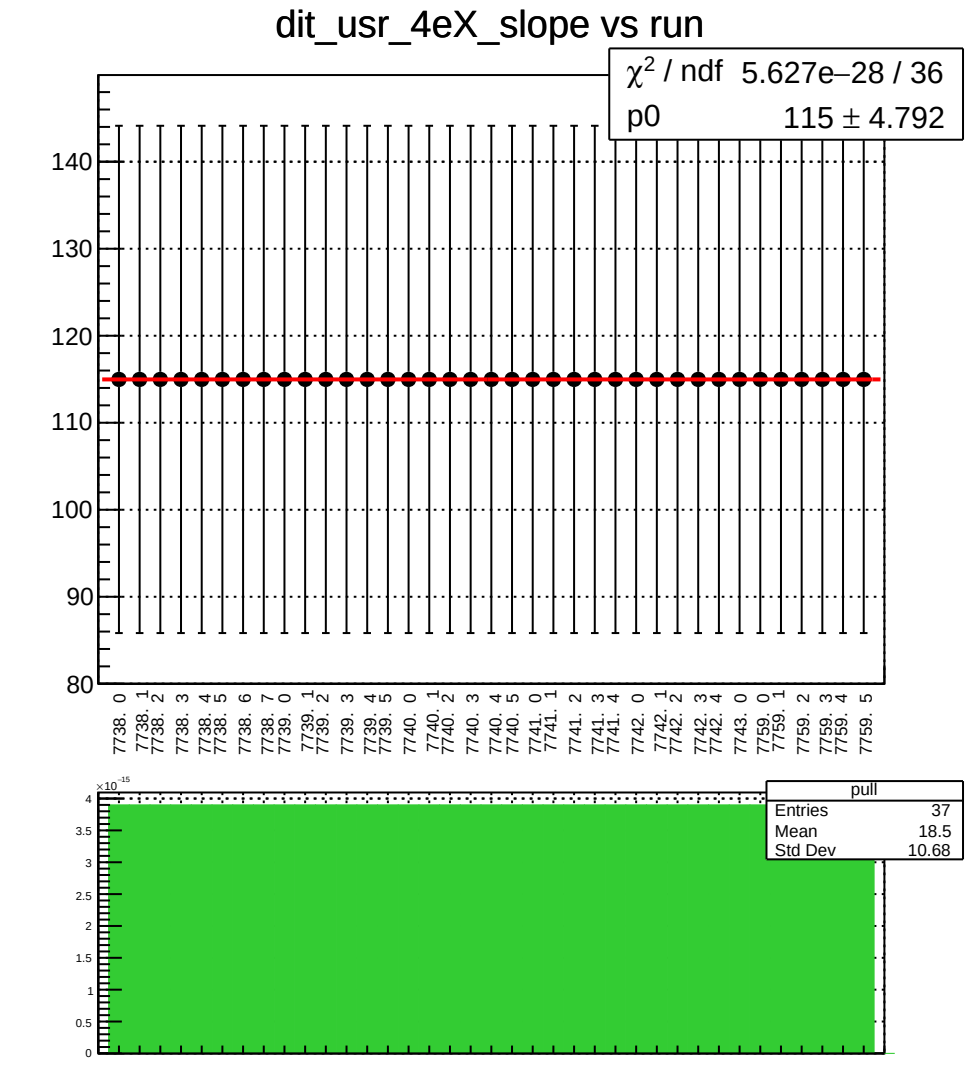

dit_usl_11X12X_slope vs run
χ² / ndf 4.424e−26 / 36
p0 −36.64 ± 0.06757
−36.2
−36.3
−36.4
−36.5
−36.6
−36.7
−36.8
−36.9
−37
−37.1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −3.458e−14
Std Dev5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

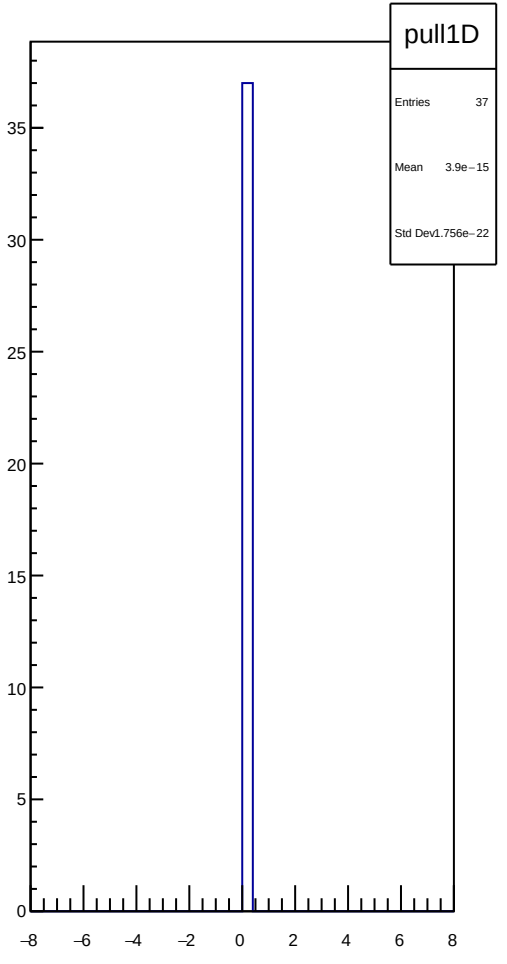

dit_usl_4aY_slope vs run
χ² / ndf 4.202e−28 / 36
p0 4.036 ± 0.2166
5.5
5
4.5
4
3.5
3
2.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 3.37e−15
Std Dev5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

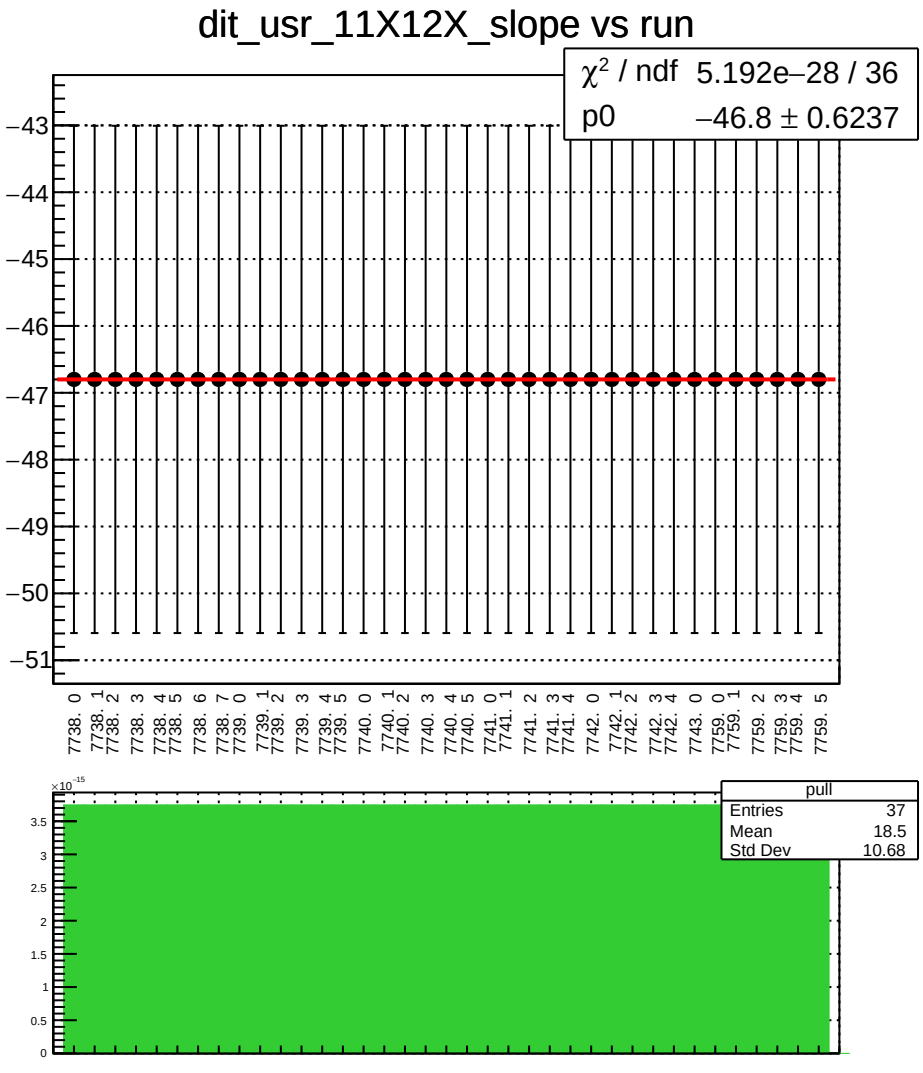

dit_usl_4eY_slope vs run
χ² / ndf 0 / 36
p0 12.32 ± 0.2564
14
13.5
13
12.5
12
11.5
11
10.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

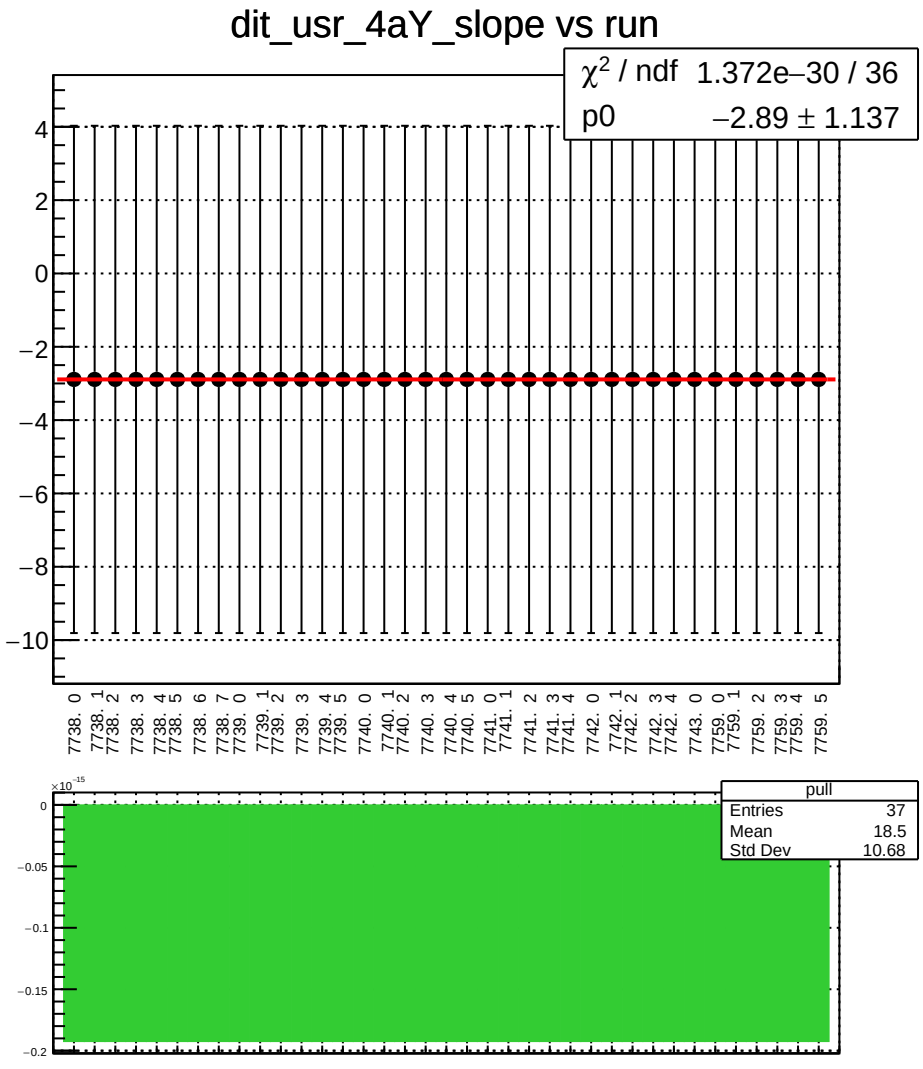

dit_usr_4aX_slope vs run
χ² / ndf 3.722e−28 / 36
p0 −57.41 ± 2.21
−45
−50
−55
−60
−65
−70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

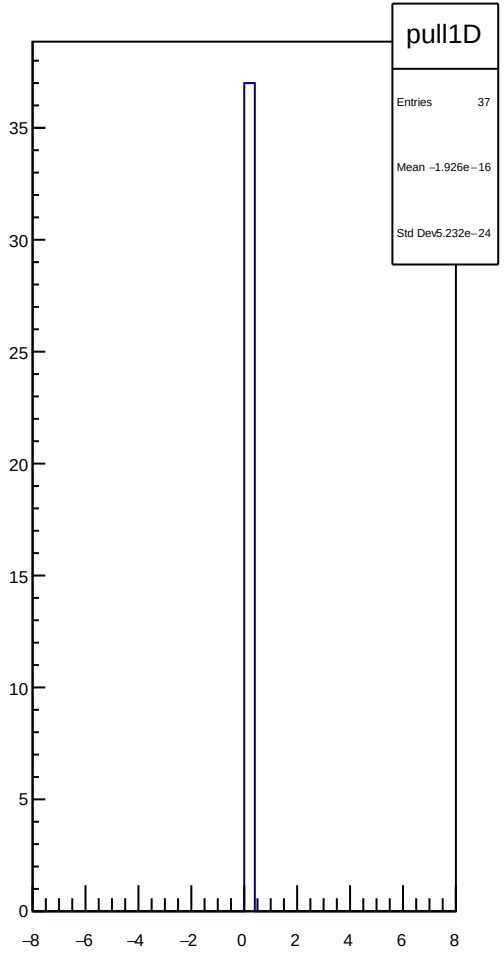

pull1D
Entries 37
Mean 3.172e−15
Std Dev 6.484e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

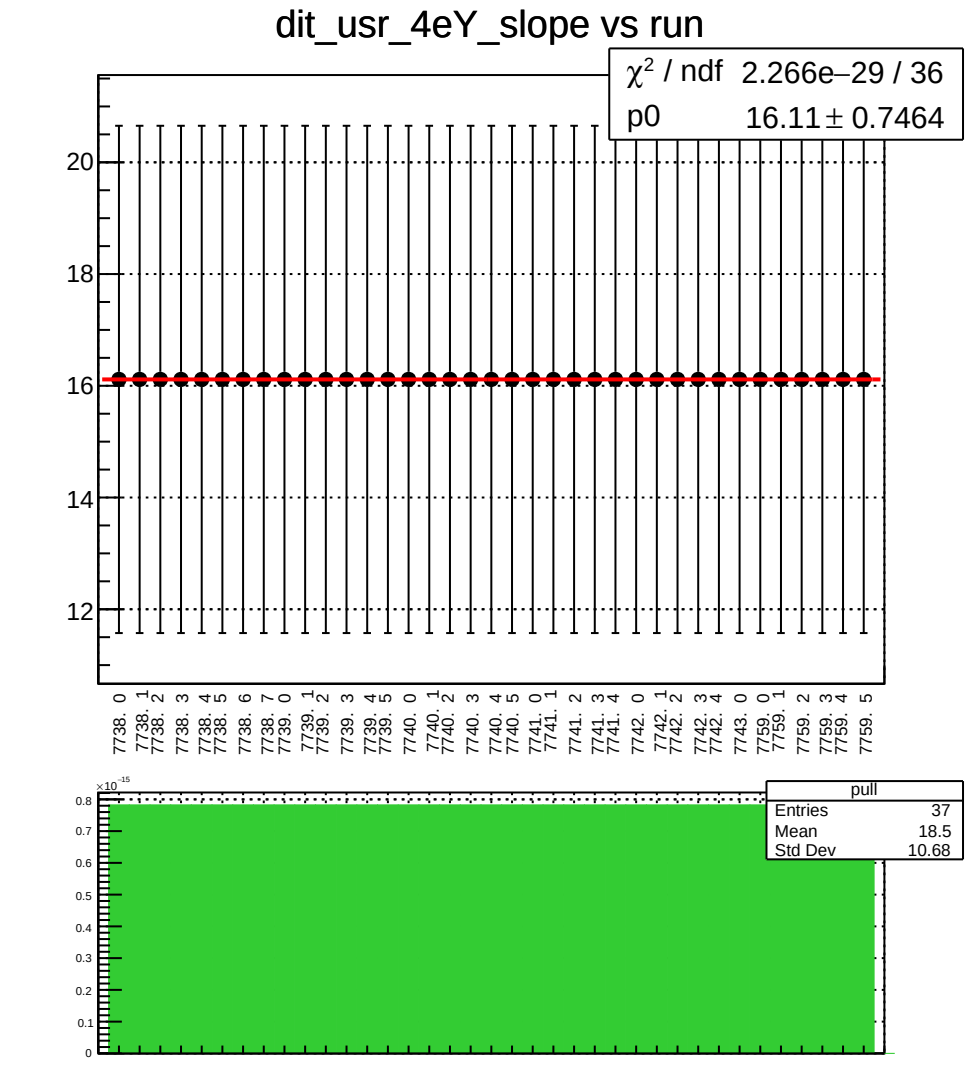

dit_usr_4eX_slope vs run
χ² / ndf 5.627e−28 / 36
p0 115 ± 4.792
140
130
120
110
100
90
80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

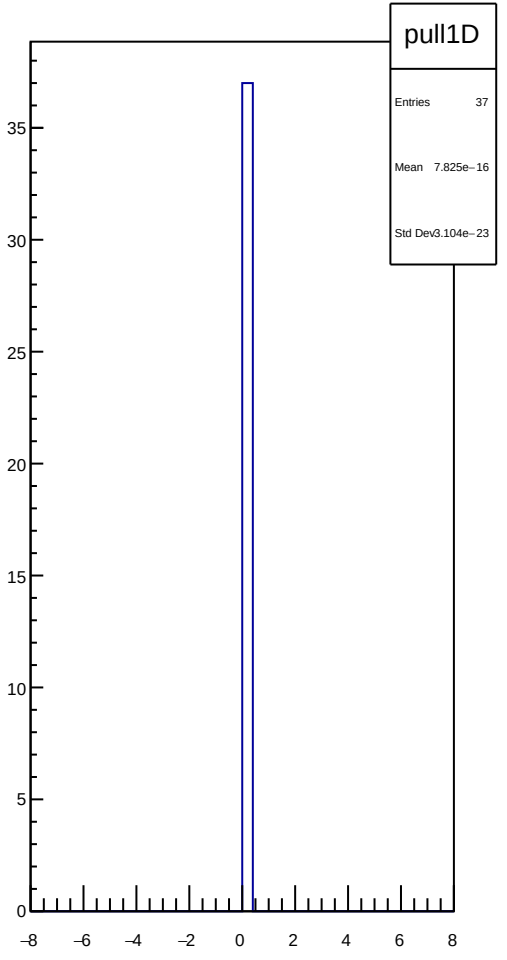

pull1D
Entries 37
Mean 3.9e−15
Std Dev1.756e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

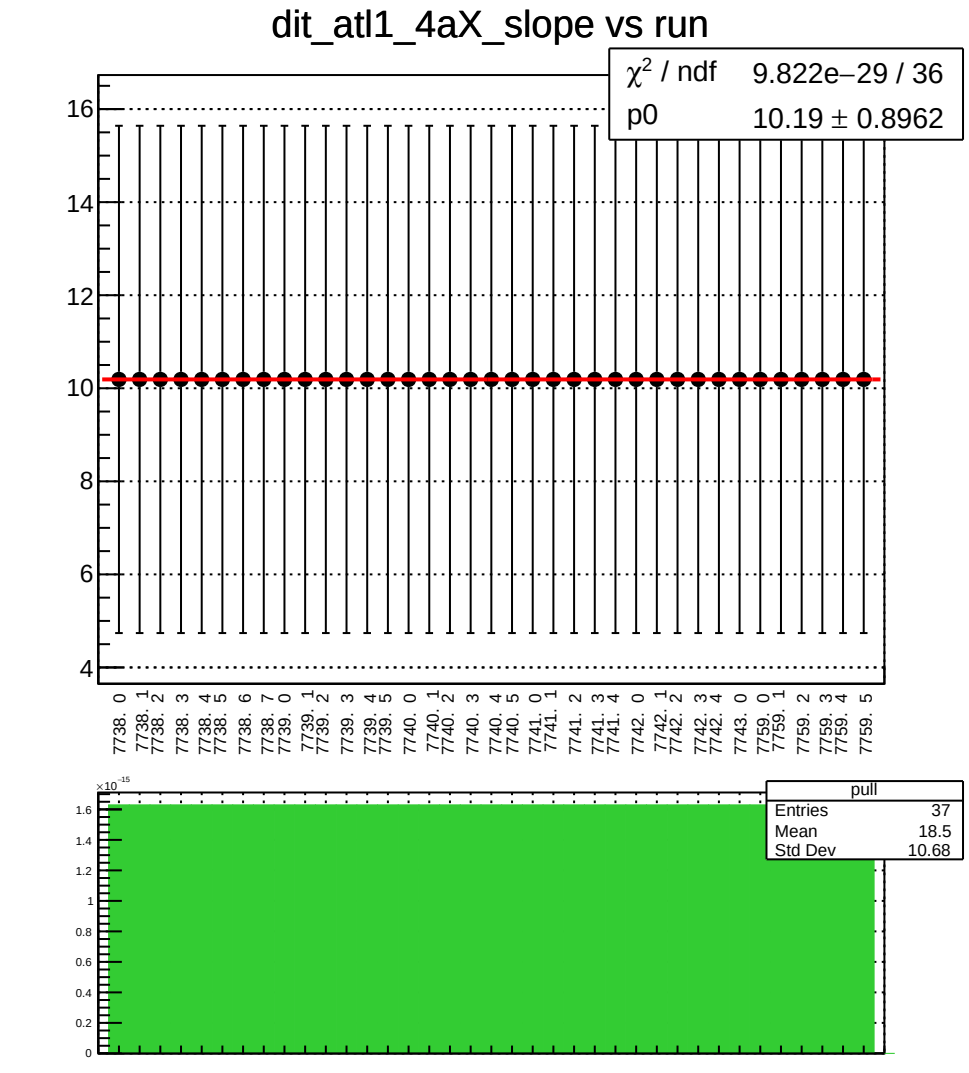

dit_usr_11X12X_slope vs run
χ² / ndf 5.192e−28 / 36
p0 −46.8 ± 0.6237
−43
−44
−45
−46
−47
−48
−49
−50
−51
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 3.746e−15
Std Dev1.401e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

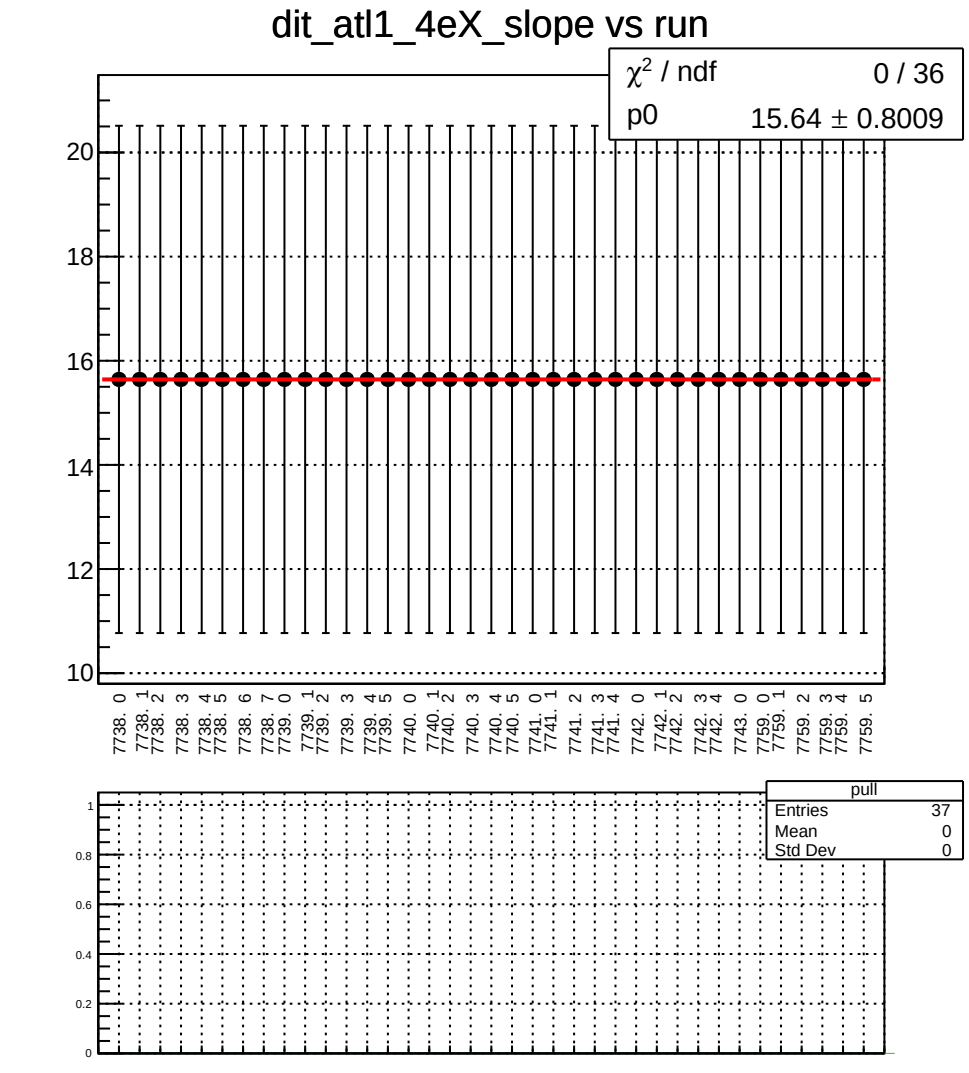

dit_usr_4aY_slope vs run
χ² / ndf 1.372e−30 / 36
p0 −2.89 ± 1.137
4
2
0
−2
−4
−6
−8
−10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 37
Mean 18.5
Std Dev 10.68

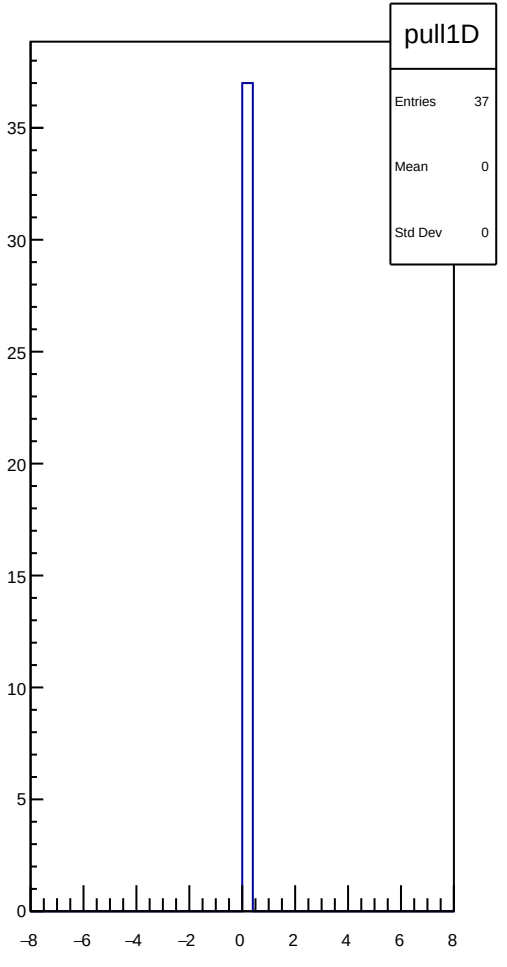

pull1D
Entries 37
Mean −1.926e−16
Std Dev5.232e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

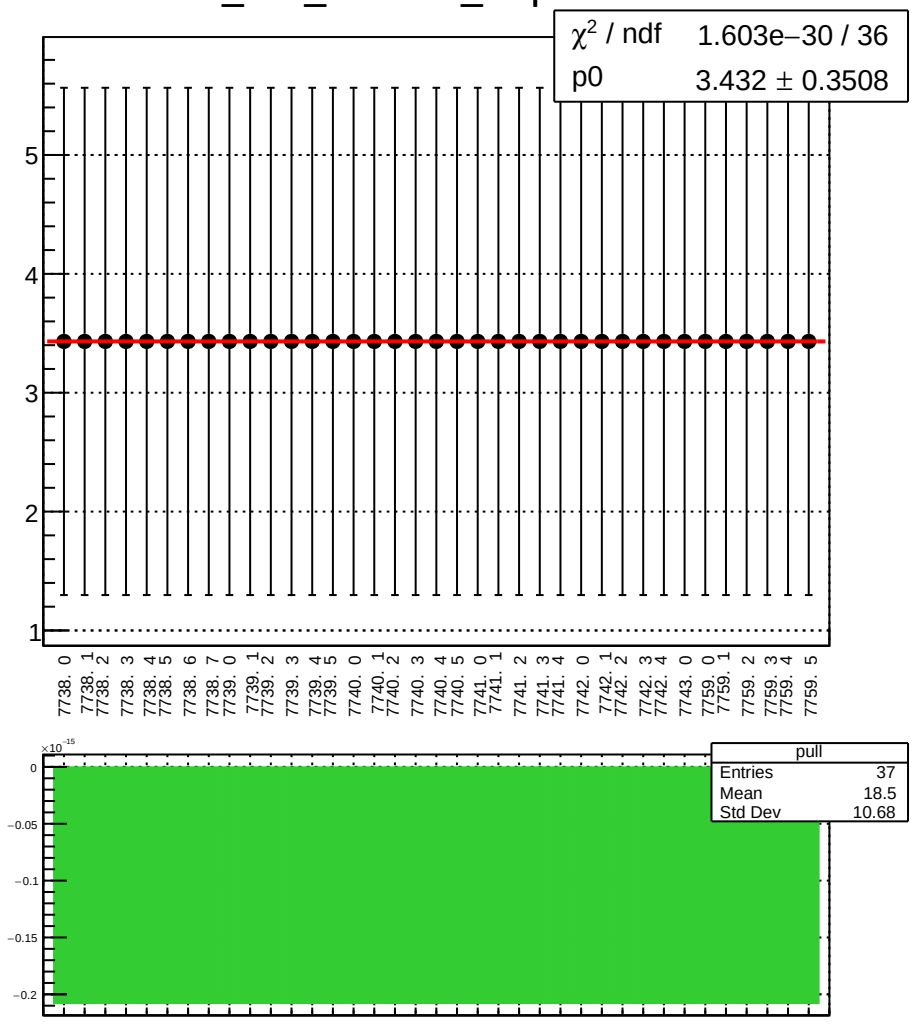

dit_usr_4eY_slope vs run
χ² / ndf 2.266e−29 / 36
p0 16.11 ± 0.7464
20
18
16
14
12
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

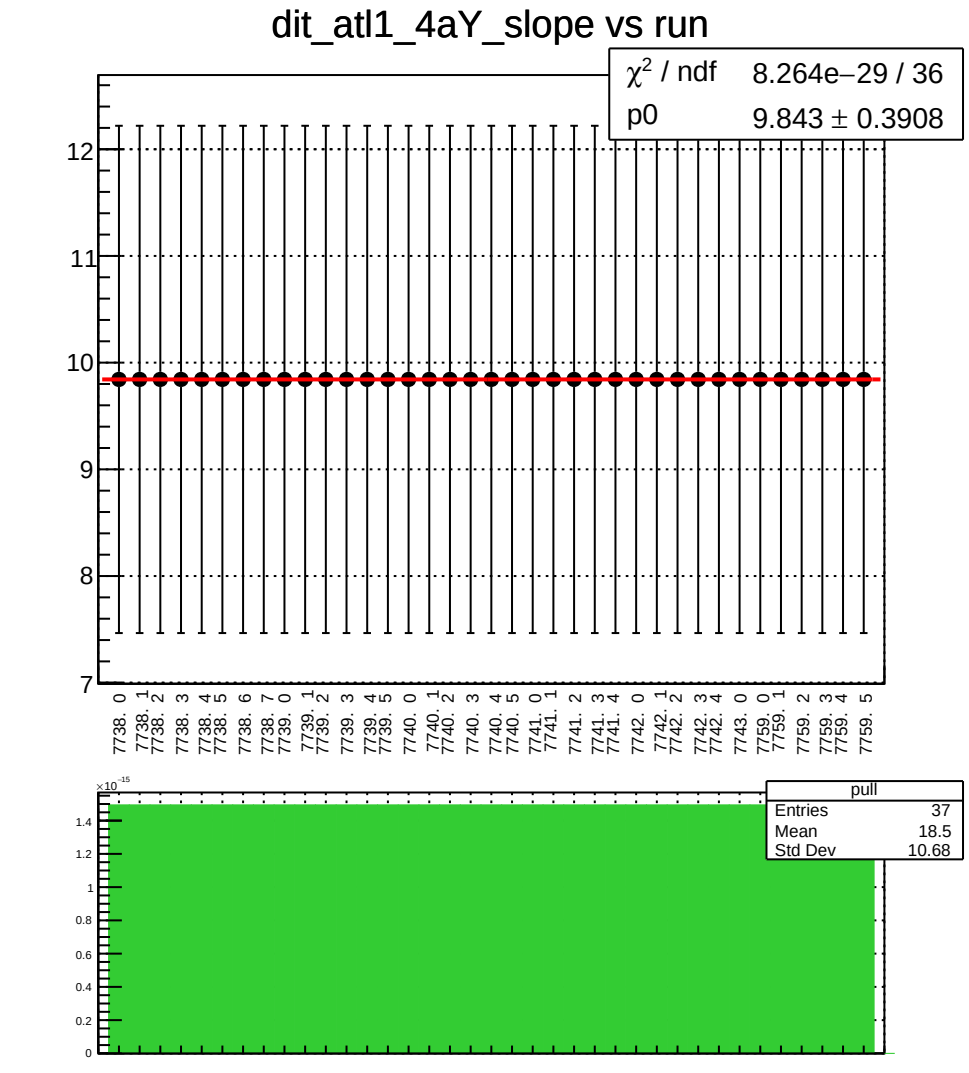

pull1D
Entries 37
Mean 7.825e−16
Std Dev3.104e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

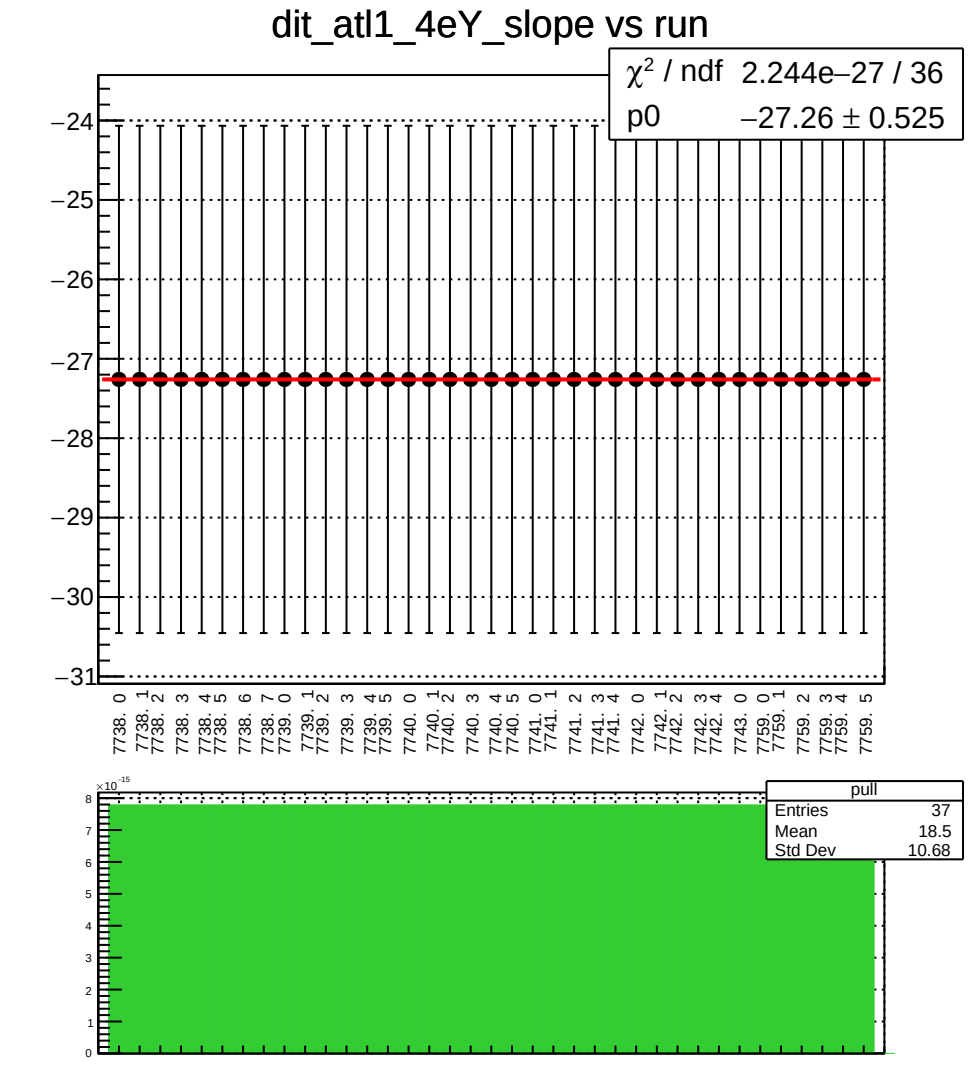

dit_atl1_4aX_slope vs run
χ² / ndf 9.822e−29 / 36
p0 10.19 ± 0.8962
16
14
12
10
8
6
4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.629e−15
Std Dev 5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

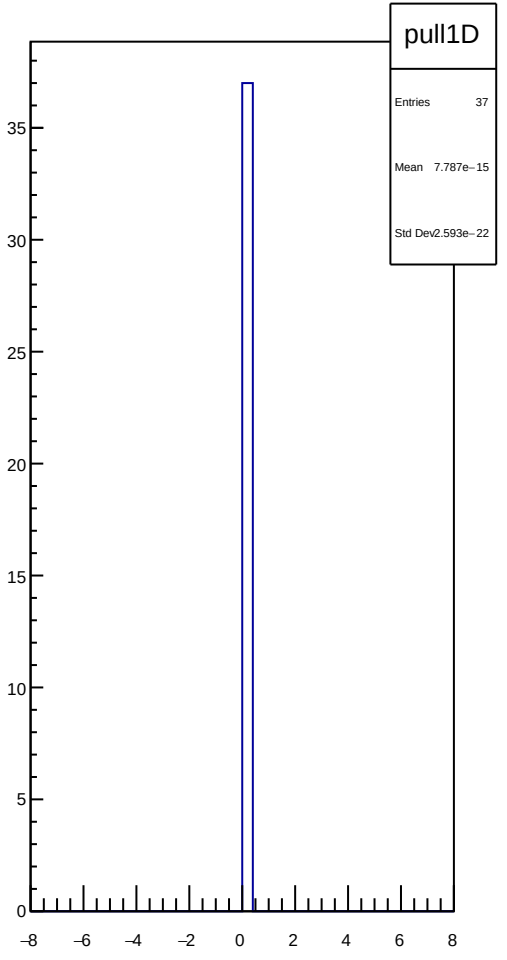

dit_atl1_4eX_slope vs run
χ² / ndf 0 / 36
p0 15.64 ± 0.8009
20
18
16
14
12
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

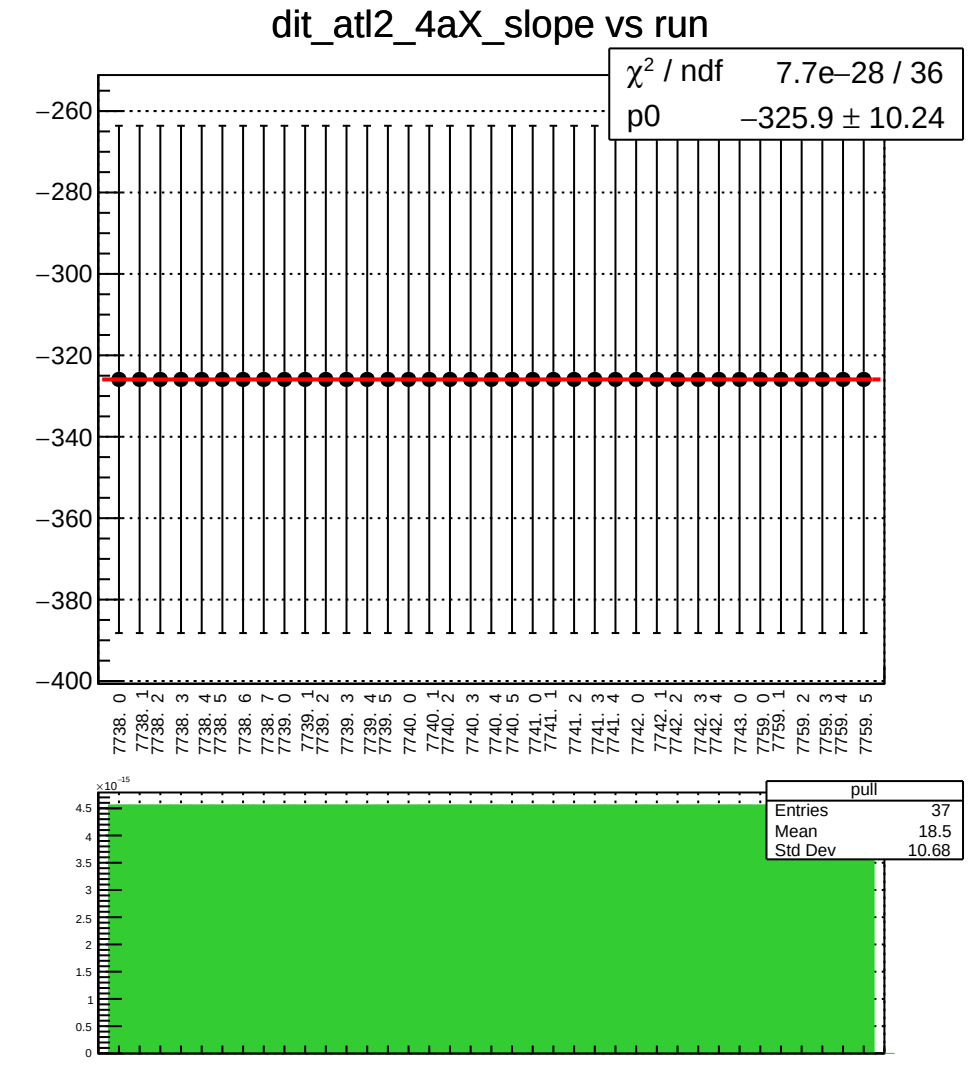

pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

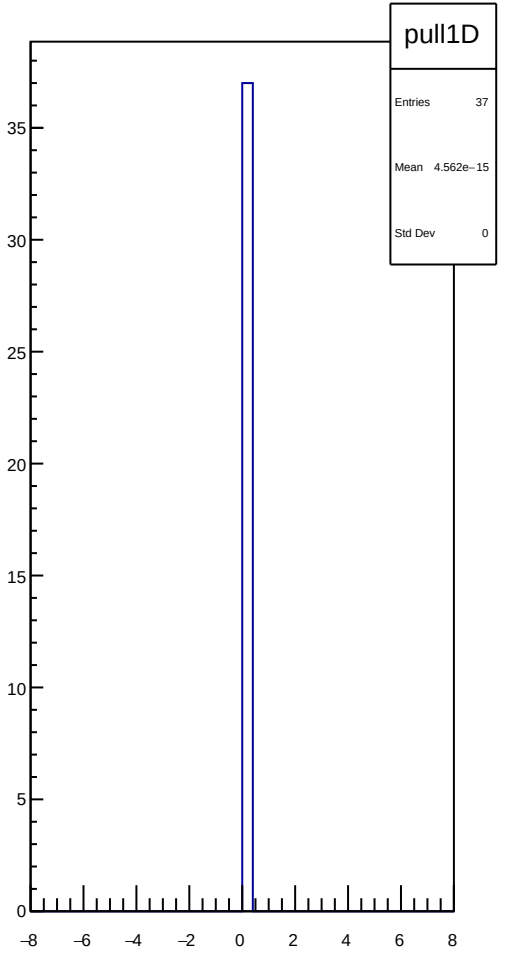

dit_atl1_11X12X_slope vs run
χ^2 / ndf 1.603e−30 / 36
p0 3.432 ± 0.3508
5
4
3
2
1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −2.081e−16
Std Dev5.232e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

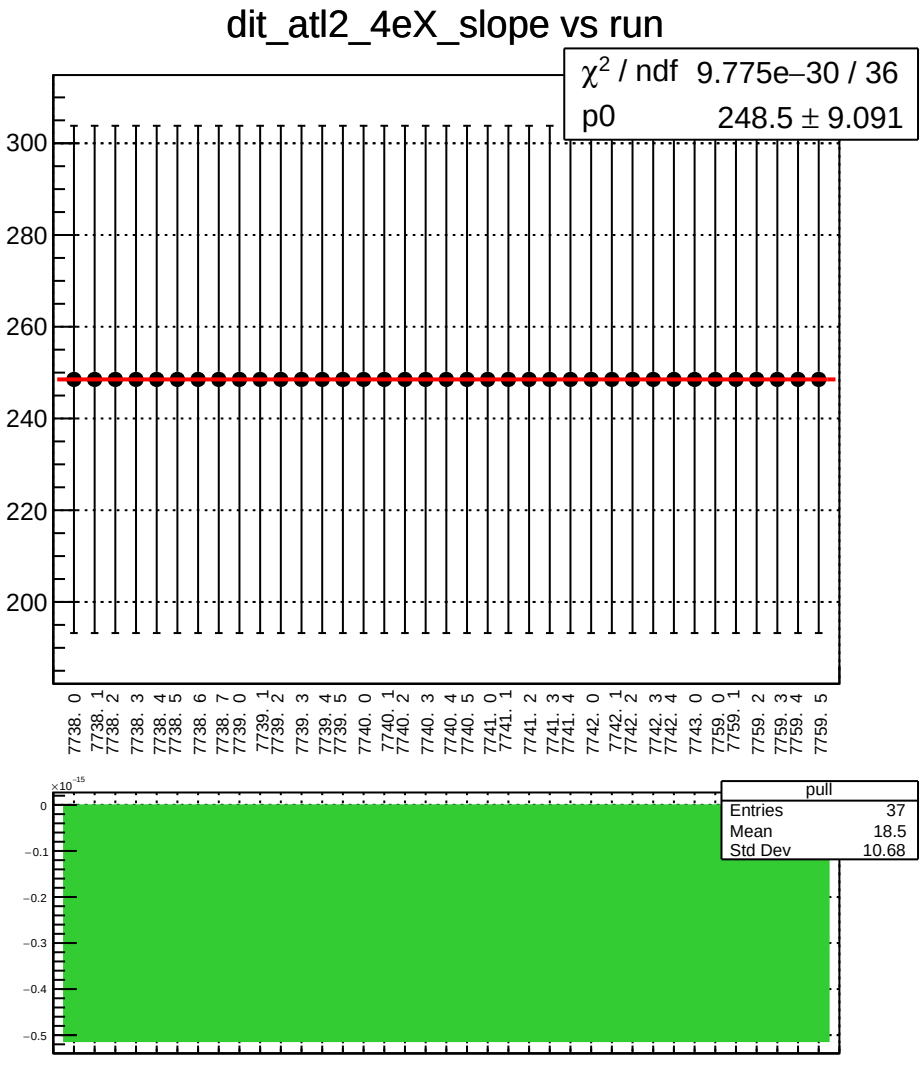

dit_atl1_4aY_slope vs run
χ² / ndf 8.264e−29 / 36
p0 9.843 ± 0.3908
12
11
10
9
8
7
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.495e−15
Std Dev 6.208e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

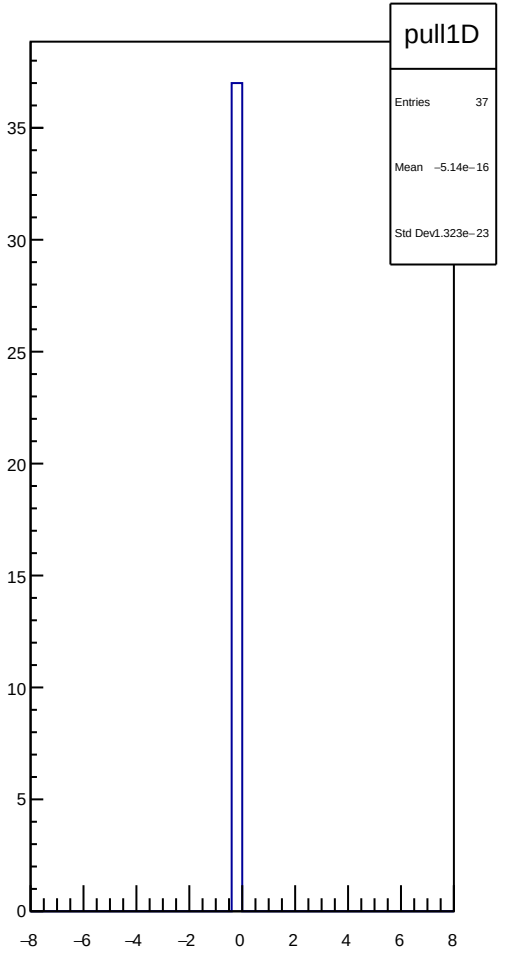

dit_atl1_4eY_slope vs run
χ² / ndf 2.244e−27 / 36
p0 −27.26 ± 0.525
−24
−25
−26
−27
−28
−29
−30
−31
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
8
7
6
5
4
3
2
1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

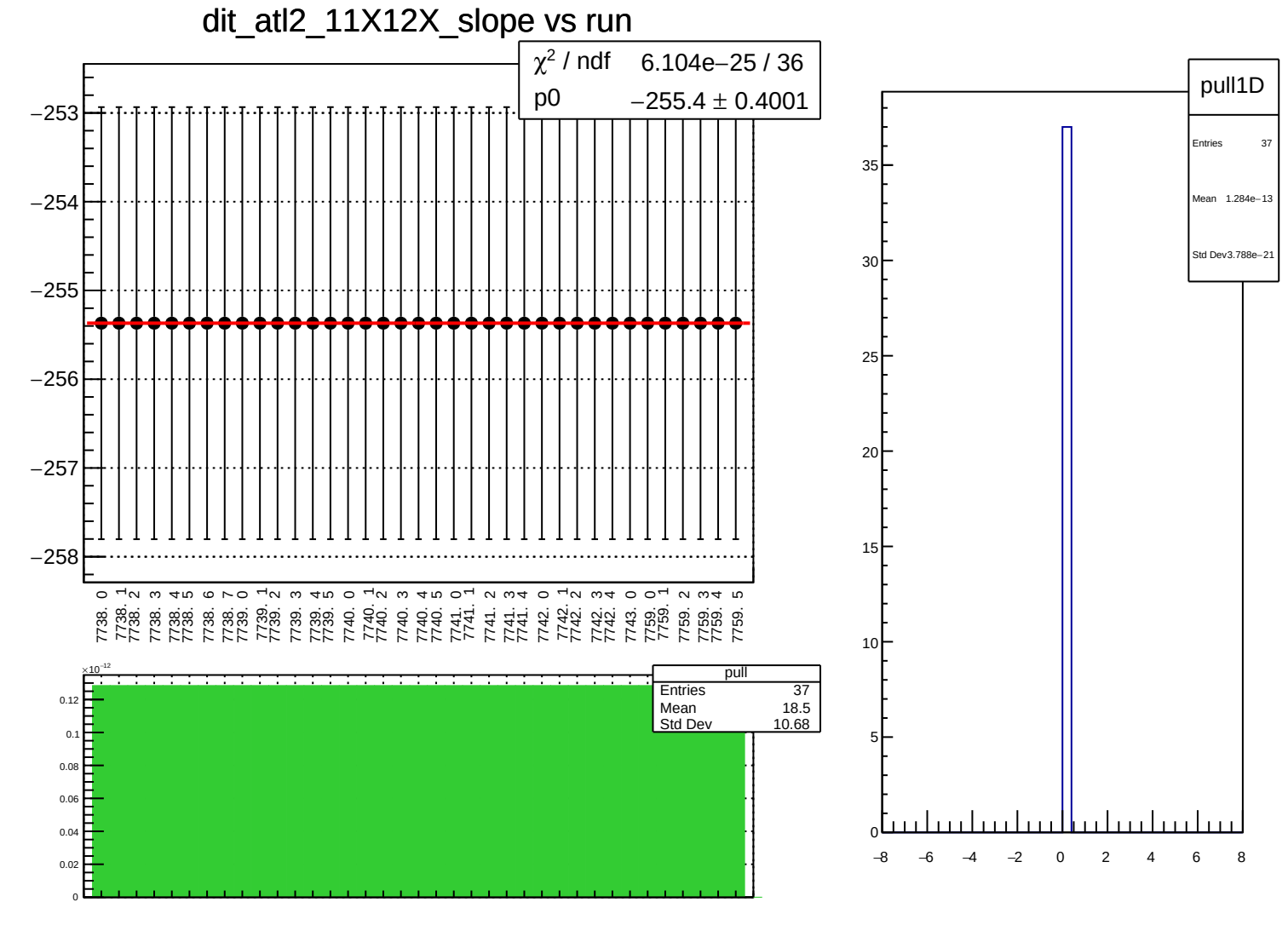

pull1D
Entries 37
Mean 7.787e−15
Std Dev 2.593e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

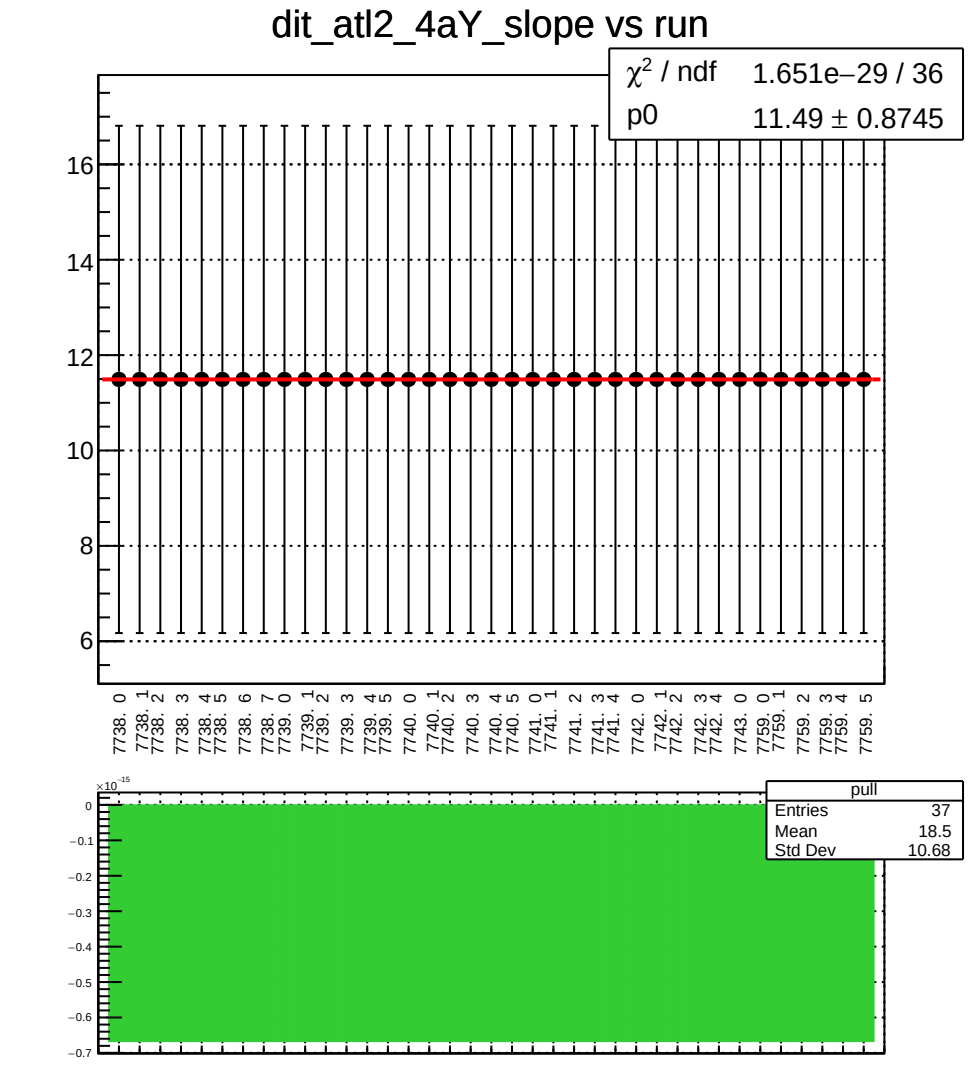

dit_atl2_4aX_slope vs run
χ² / ndf 7.7e−28 / 36
p0 −325.9 ± 10.24
−260
−280
−300
−320
−340
−360
−380
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

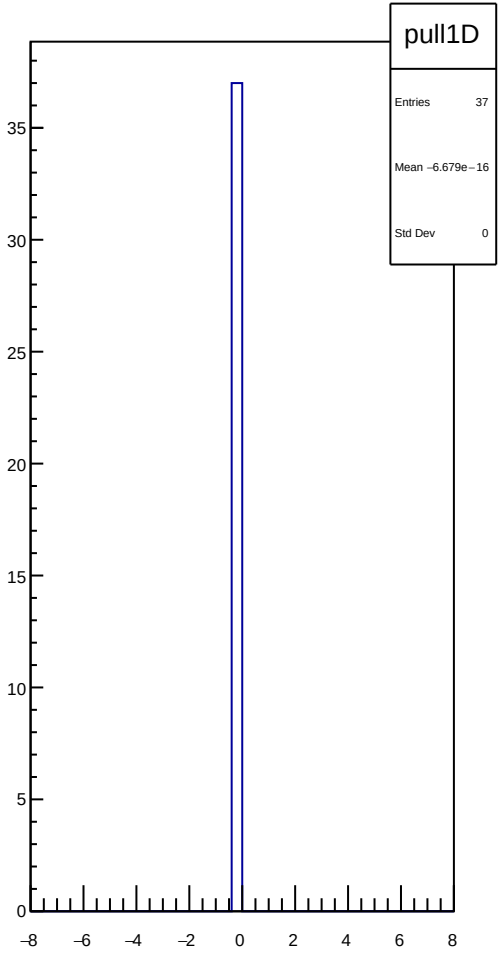

pull1D
Entries 37
Mean 4.562e−15
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

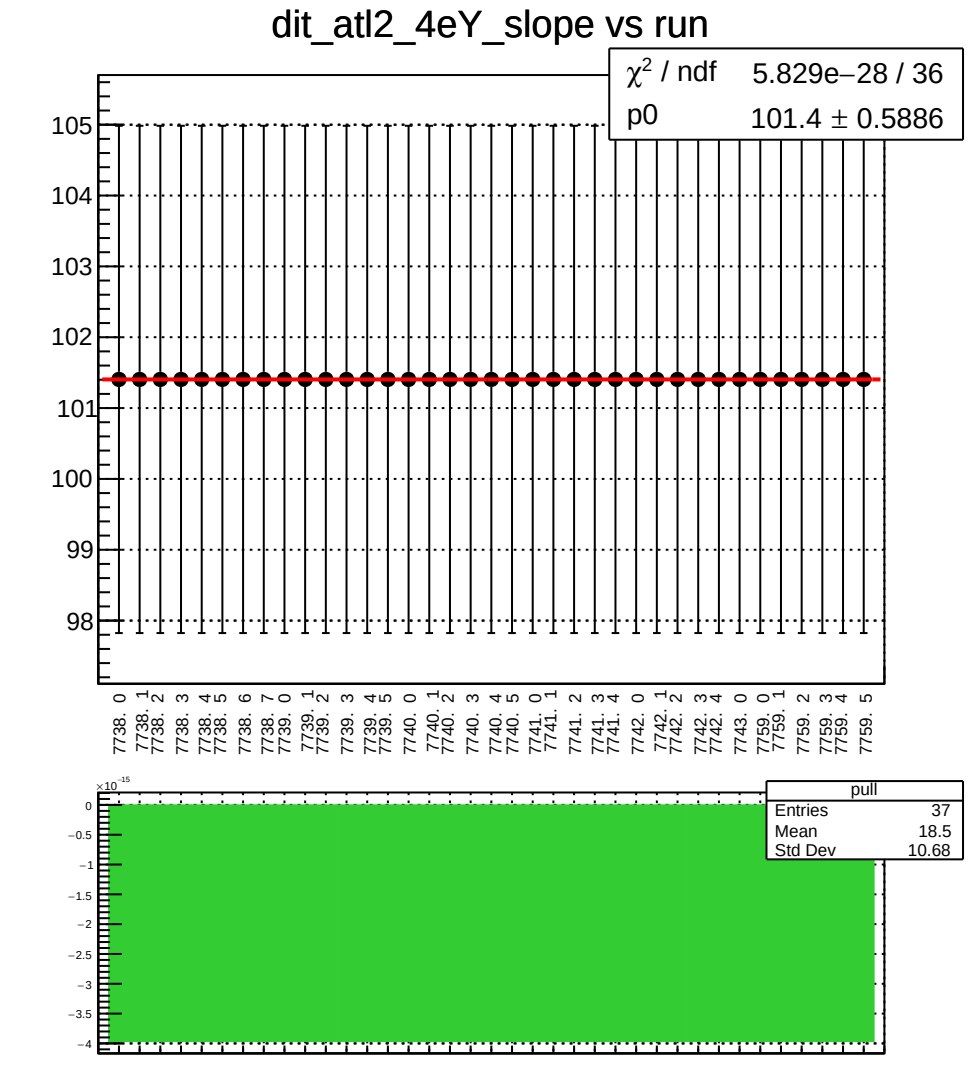

dit_atl2_4eX_slope vs run
χ² / ndf 9.775e−30 / 36
p0 248.5 ± 9.091
300
280
260
240
220
200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 37
Mean 18.5
Std Dev 10.68

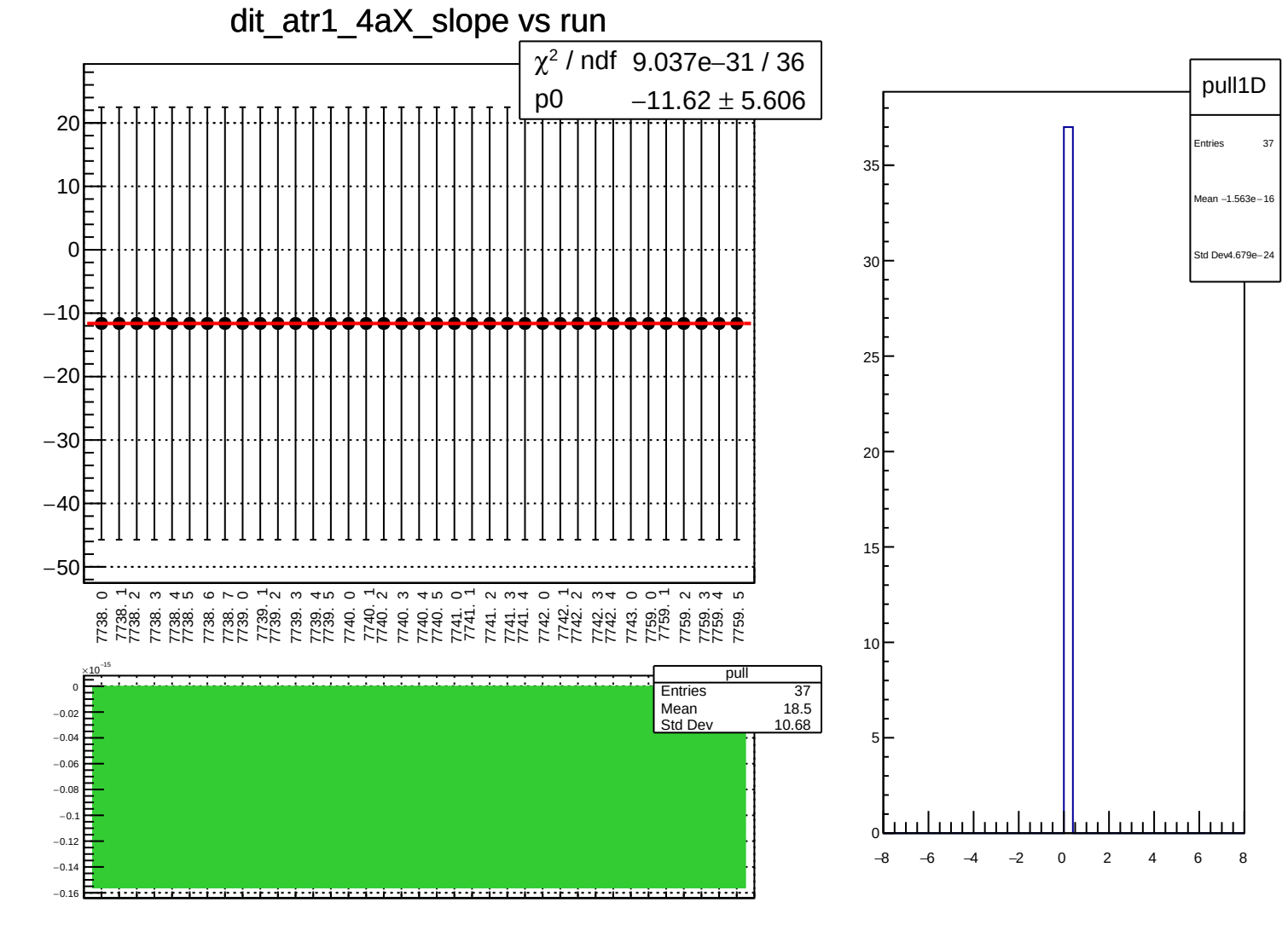

pull1D
Entries 37
Mean −5.14e−16
Std Dev1.323e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

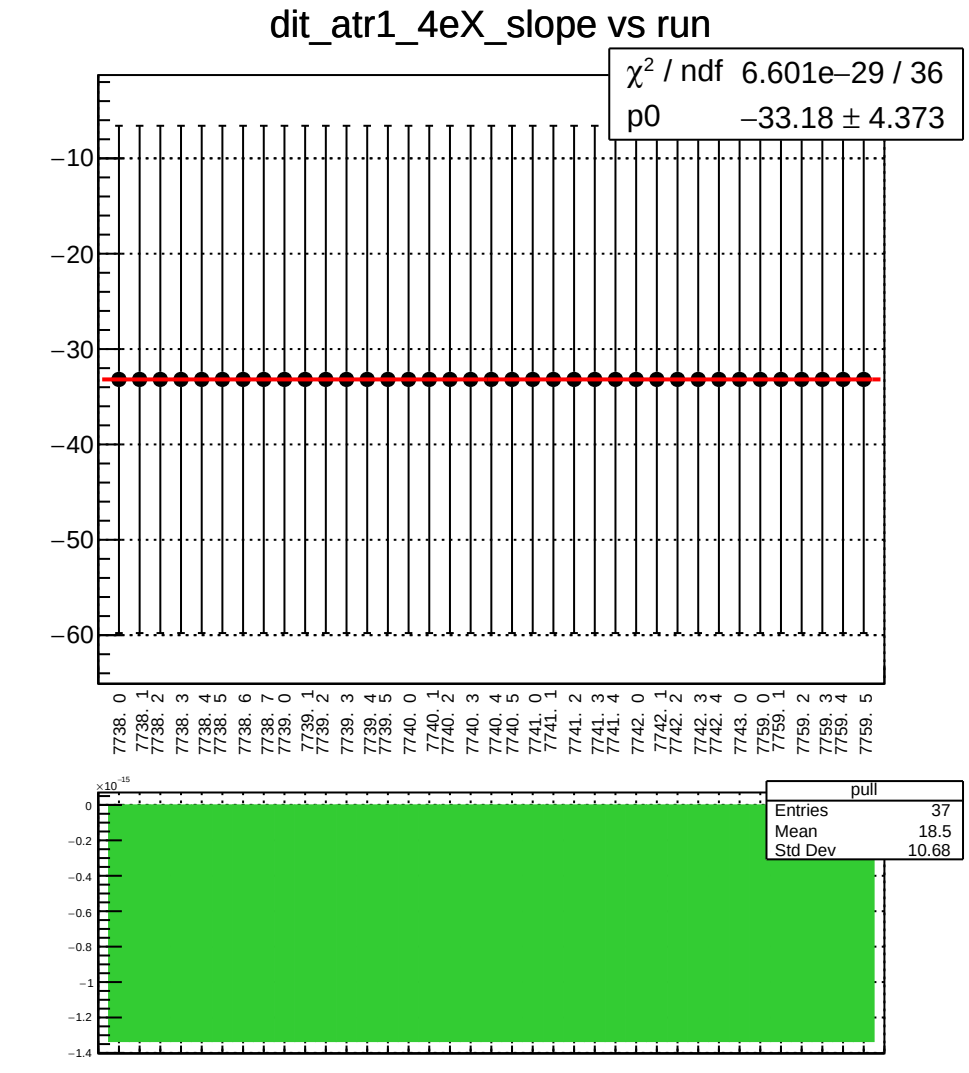

dit_atl2_11X12X_slope vs run
χ² / ndf 6.104e−25 / 36
p0 −255.4 ± 0.4001
−253
−254
−255
−256
−257
−258
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹²
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.284e−13
Std Dev3.788e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

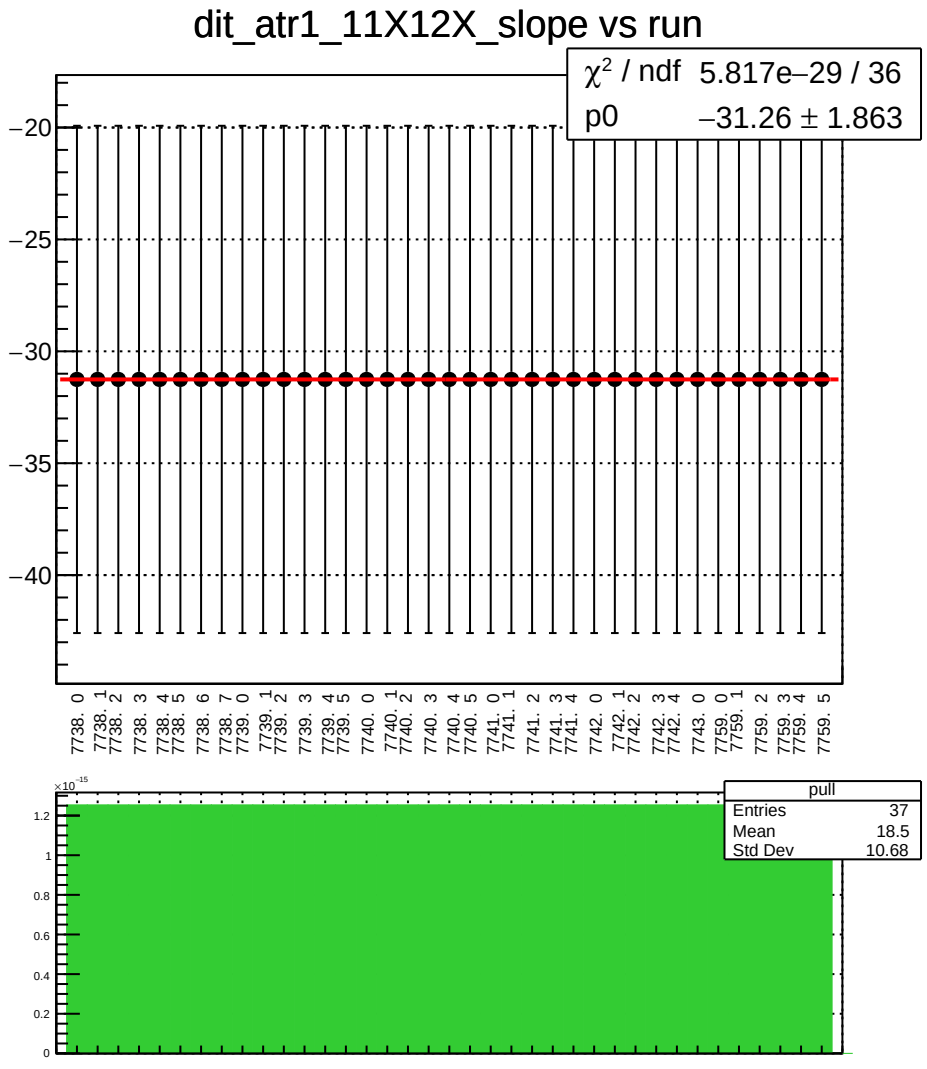

dit_atl2_4aY_slope vs run
χ² / ndf 1.651e−29 / 36
p0 11.49 ± 0.8745
16
14
12
10
8
6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
pull
Entries 37
Mean 18.5
Std Dev 10.68

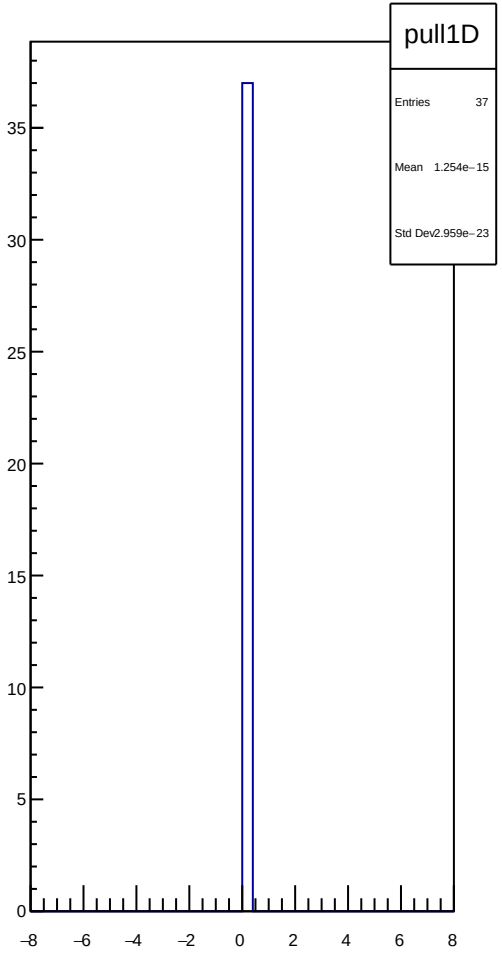

pull1D
Entries 37
Mean −6.679e−16
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

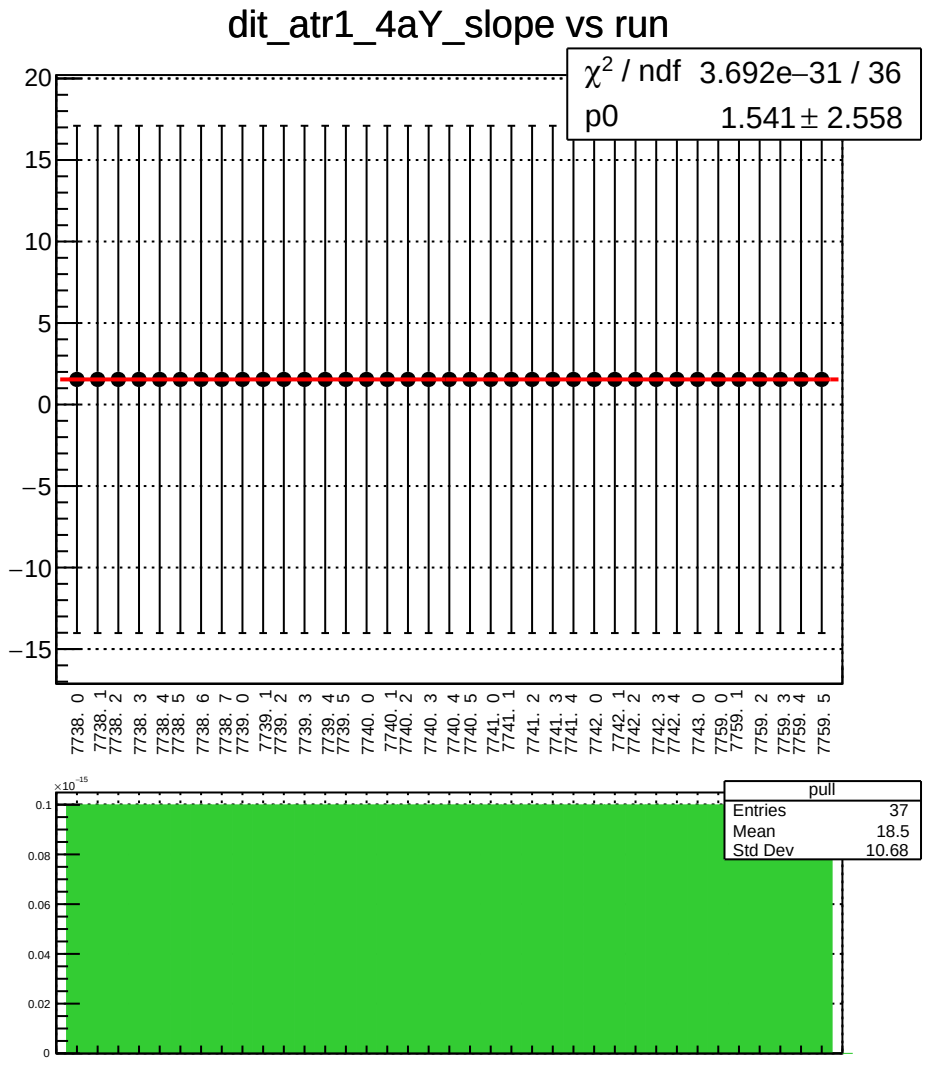

dit_atl2_4eY_slope vs run
χ² / ndf 5.829e−28 / 36
p0 101.4 ± 0.5886
105
104
103
102
101
100
99
98
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
−4
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −3.969e−15
Std Dev9.169e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

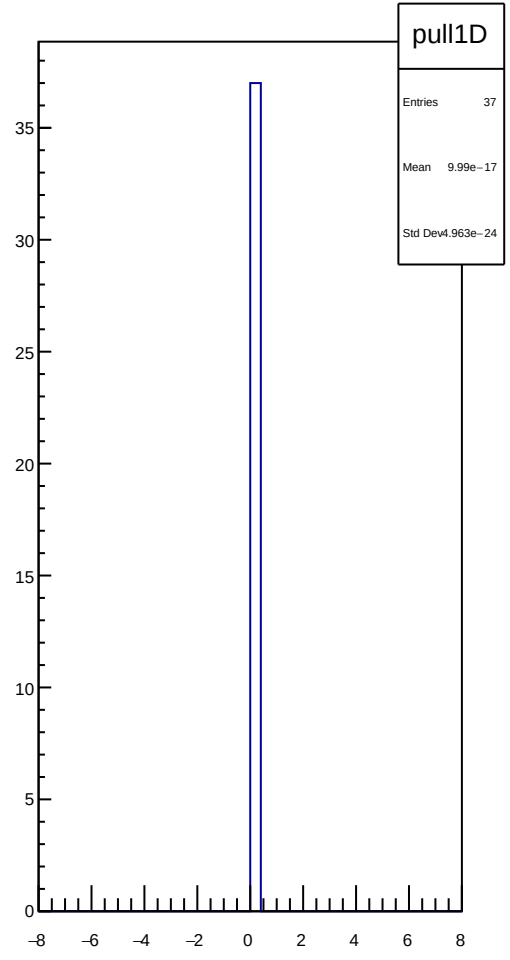

dit_atr1_4aX_slope vs run
χ² / ndf 9.037e−31 / 36
p0 −11.62 ± 5.606
20
10
0
−10
−20
−30
−40
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −1.563e−16
Std Dev4.679e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

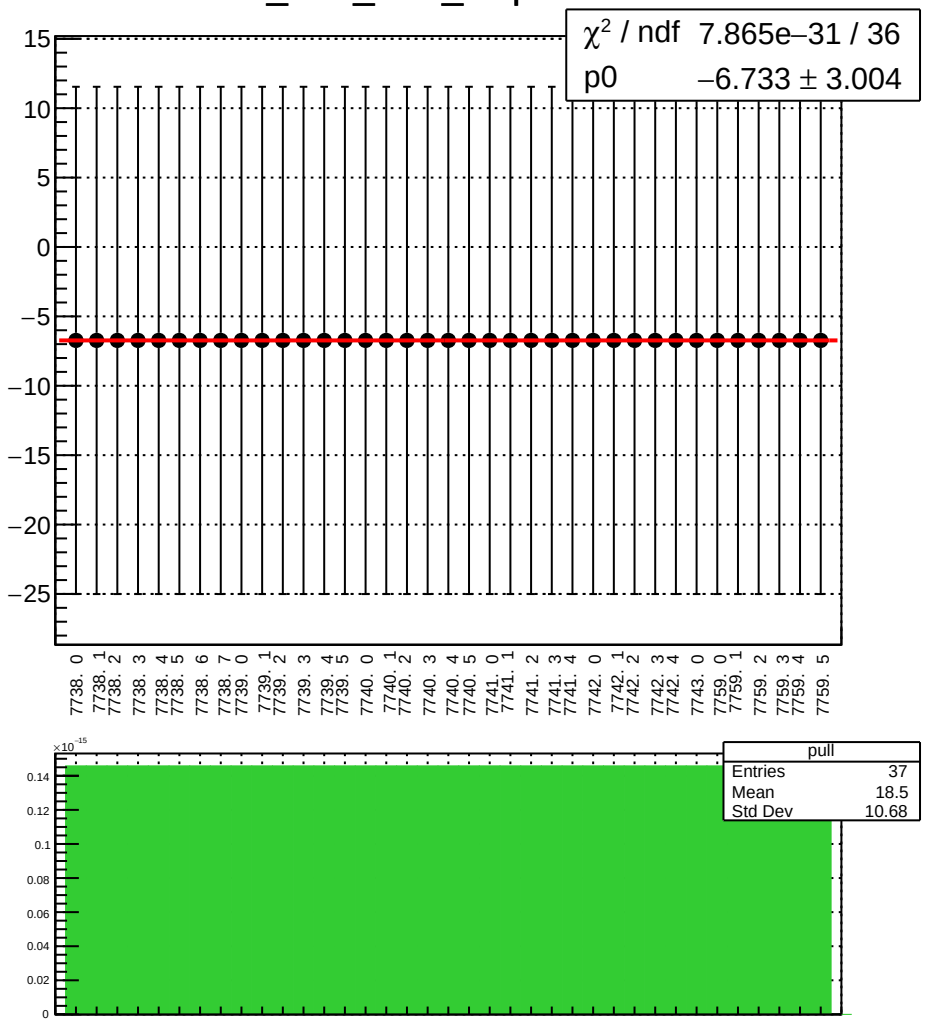

dit_atr1_4eX_slope vs run
χ² / ndf 6.601e−29 / 36
p0 −33.18 ± 4.373
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −1.336e−15
Std Dev3.242e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

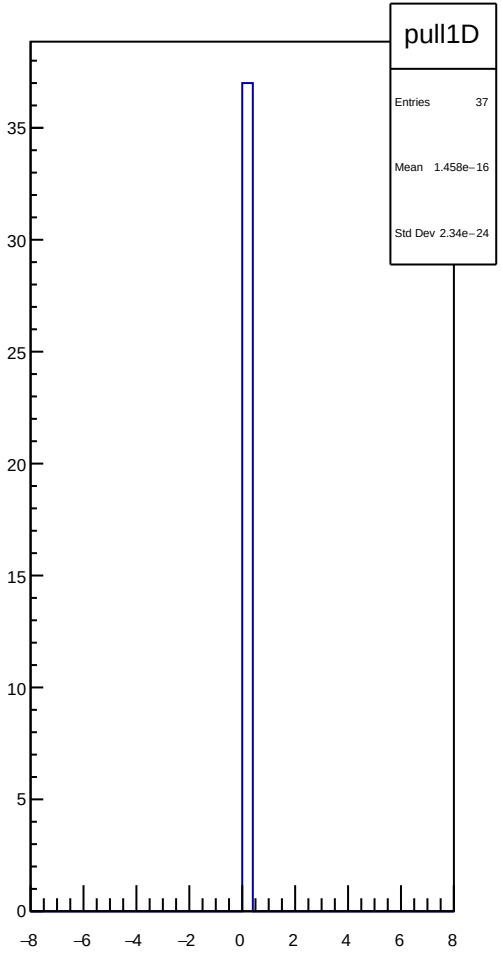

dit_atr1_11X12X_slope vs run
χ² / ndf 5.817e−29 / 36
p0 −31.26 ± 1.863
−20
−25
−30
−35
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

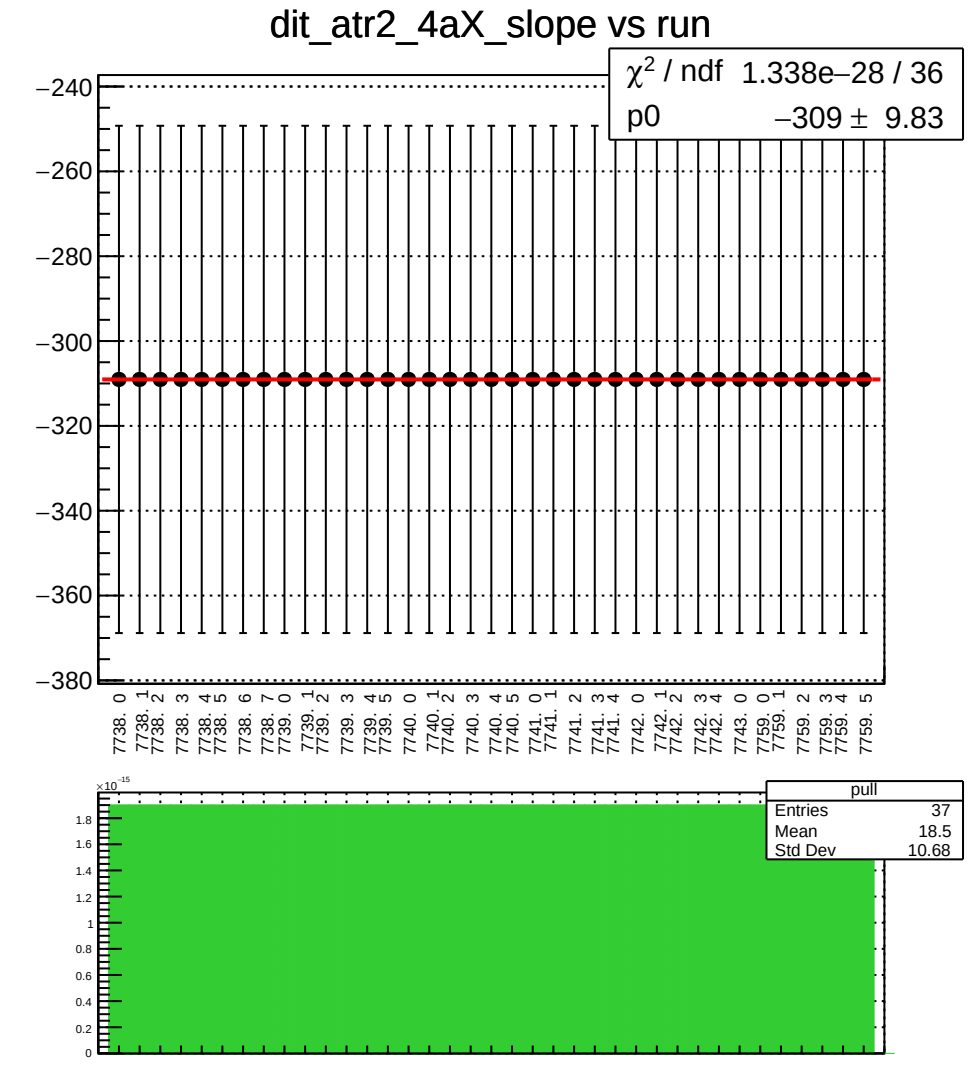

pull1D
Entries 37
Mean 1.254e−15
Std Dev 2.959e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

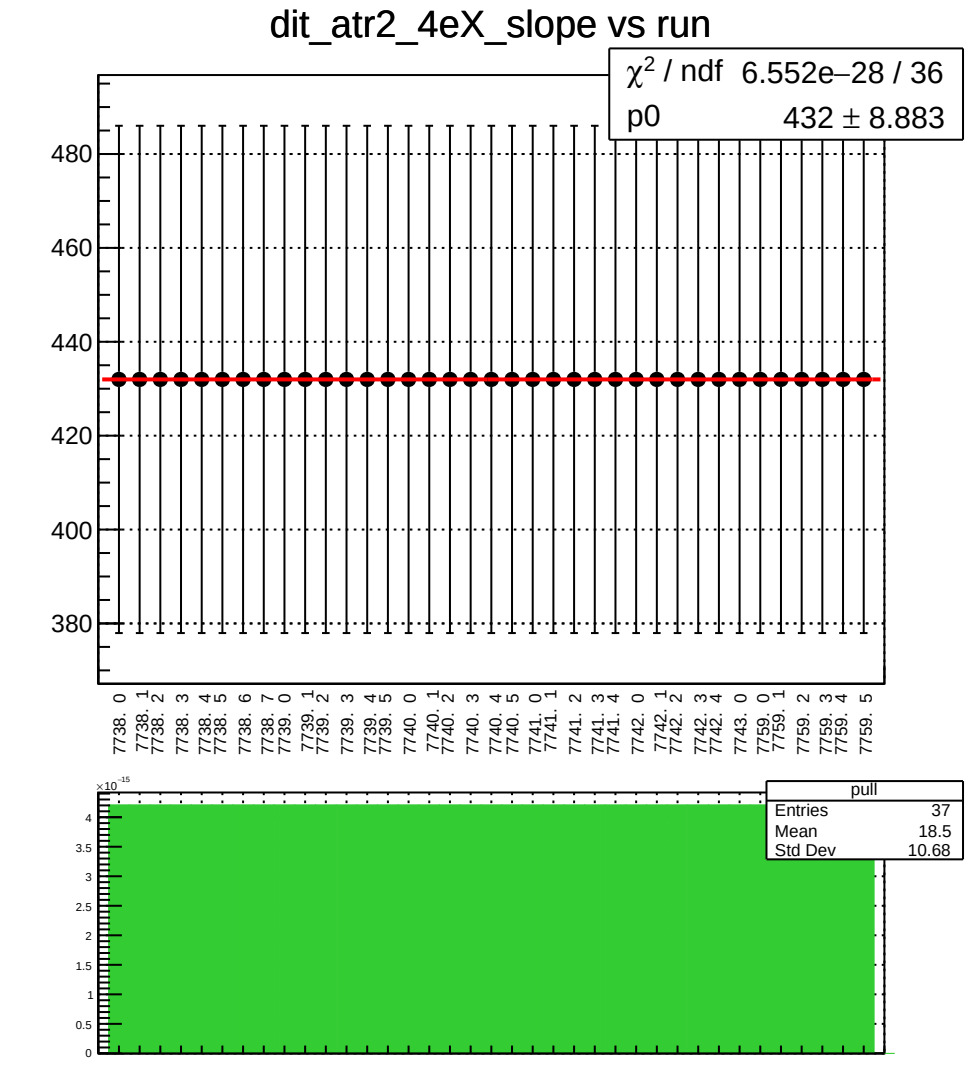

dit_atr1_4aY_slope vs run
χ² / ndf 3.692e−31 / 36
p0 1.541 ± 2.558
pull
Entries 37
Mean 18.5
Std Dev 10.68

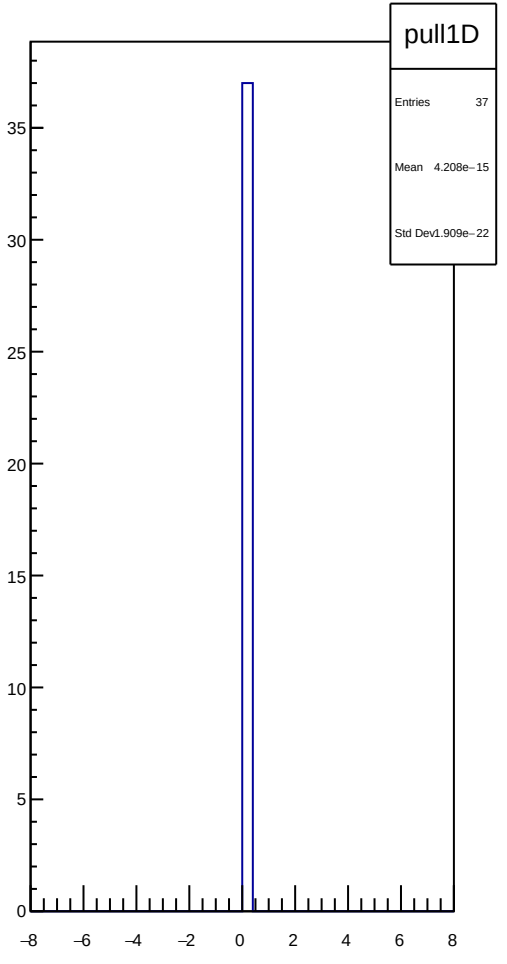

pull1D
Entries 37
Mean 9.99e−17
Std Dev 4.963e−24

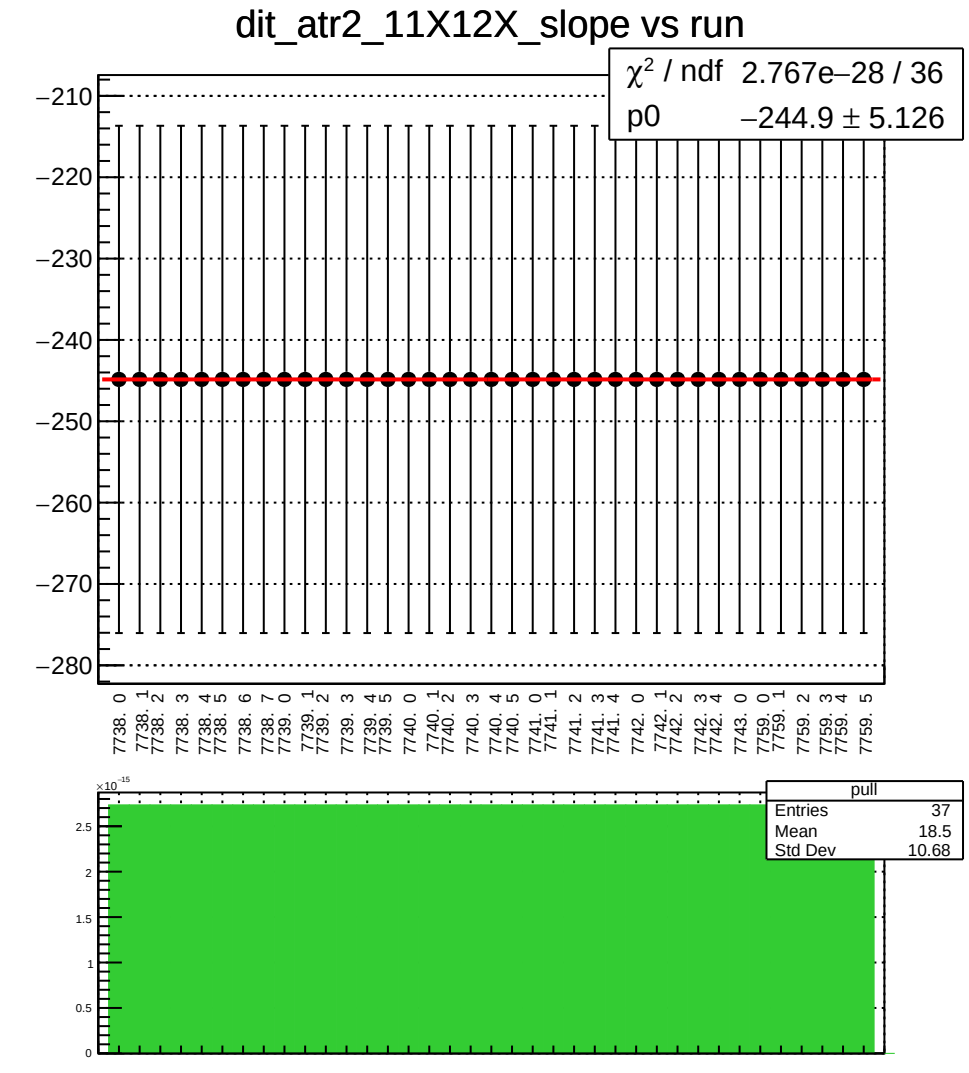

dit_atr1_4eY_slope vs run
χ² / ndf 7.865e−31 / 36
p0 −6.733 ± 3.004
15
10
5
0
−5
−10
−15
−20
−25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

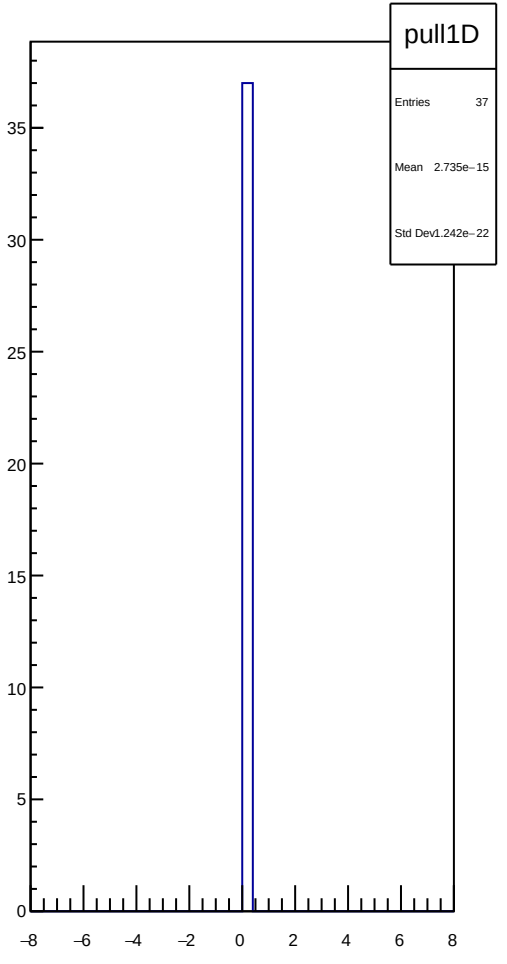

pull1D
Entries 37
Mean 1.458e−16
Std Dev 2.34e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

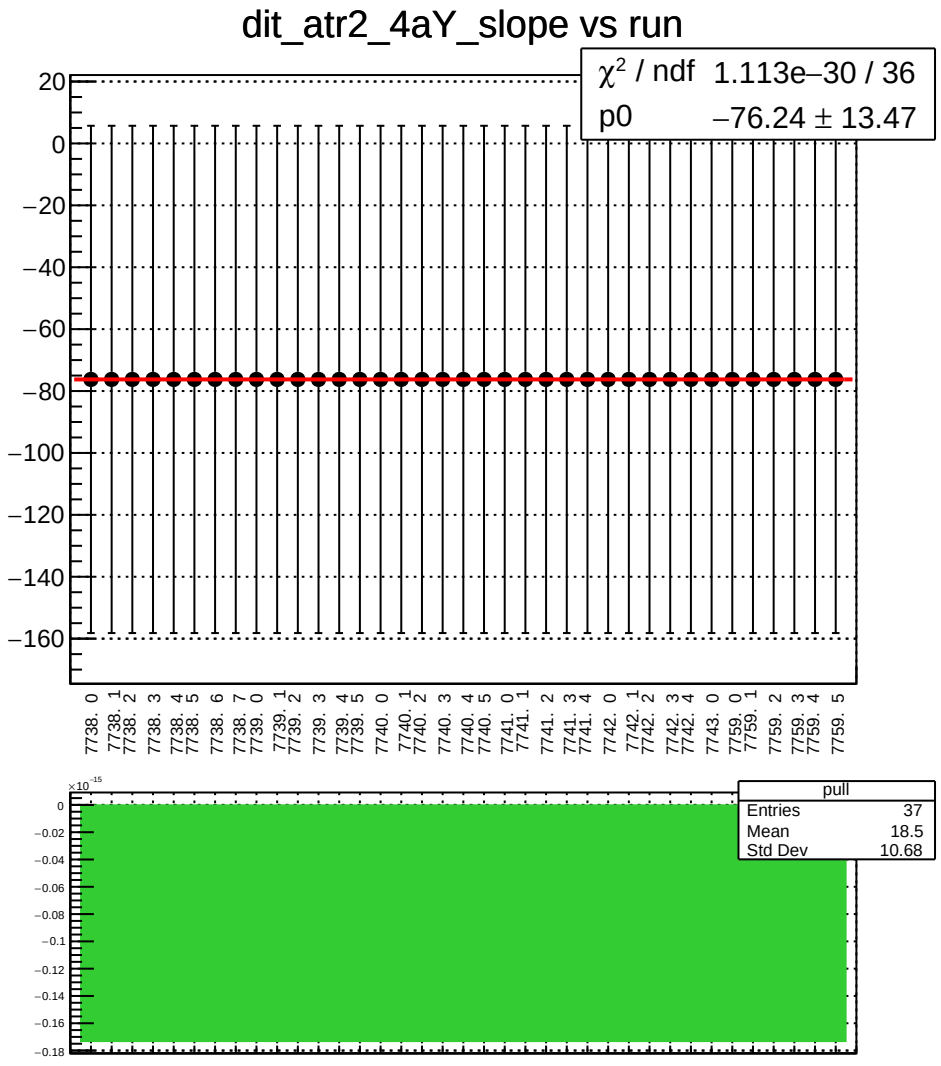

dit_atr2_4aX_slope vs run
χ² / ndf 1.338e−28 / 36
p0 −309 ± 9.83
−240
−260
−280
−300
−320
−340
−360
−380
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.901e−15
Std Dev3.743e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

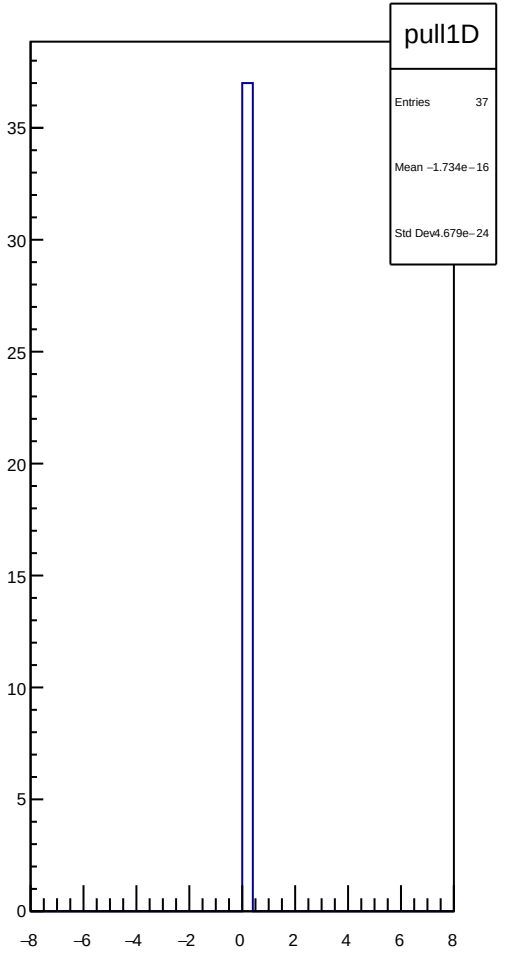

dit_atr2_4eX_slope vs run
χ² / ndf 6.552e−28 / 36
p0 432 ± 8.883
480
460
440
420
400
380
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

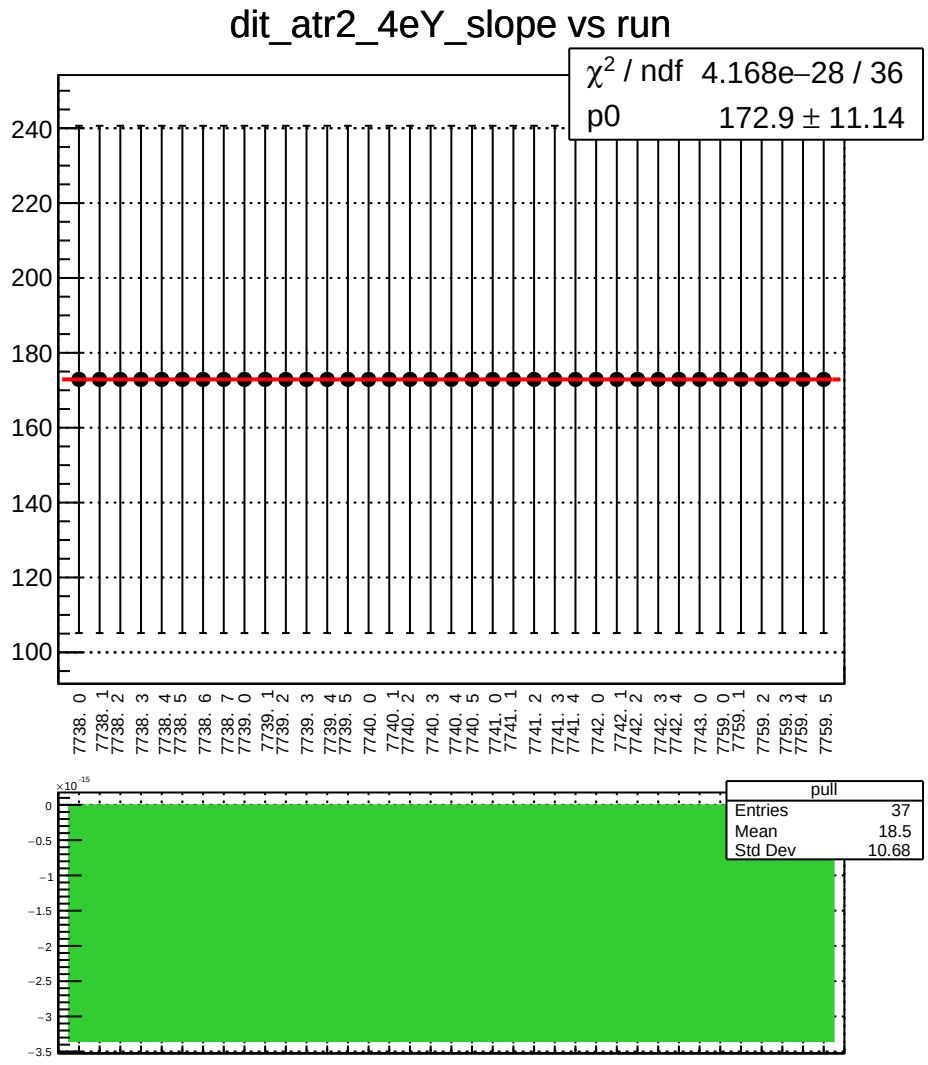

pull1D
Entries 37
Mean 4.208e−15
Std Dev1.909e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

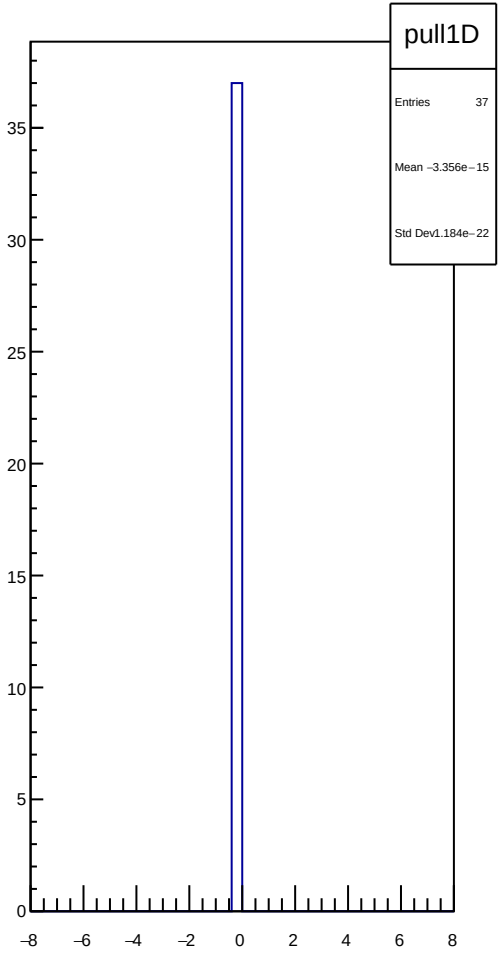

dit_atr2_11X12X_slope vs run
χ² / ndf 2.767e−28 / 36
p0 −244.9 ± 5.126
−210
−220
−230
−240
−250
−260
−270
−280
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

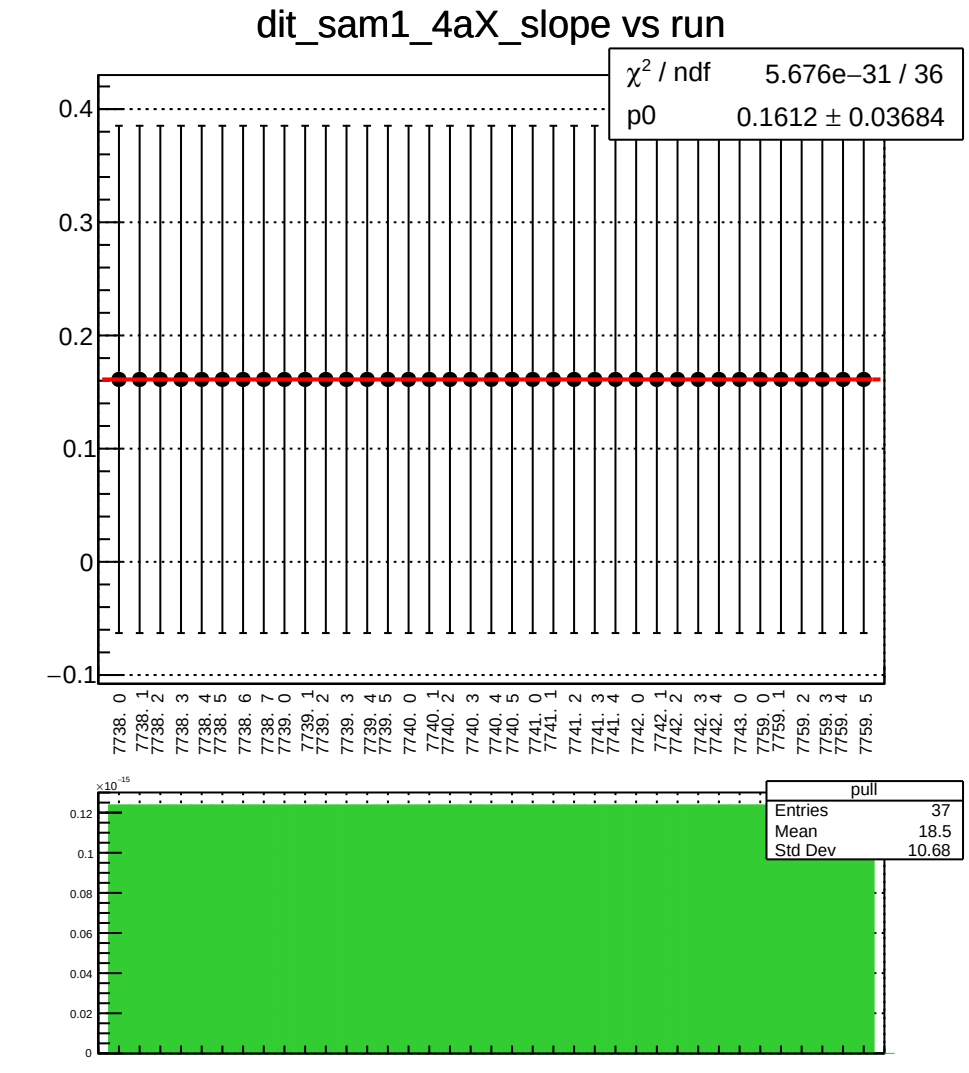

pull1D
Entries 37
Mean 2.735e−15
Std Dev1.242e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

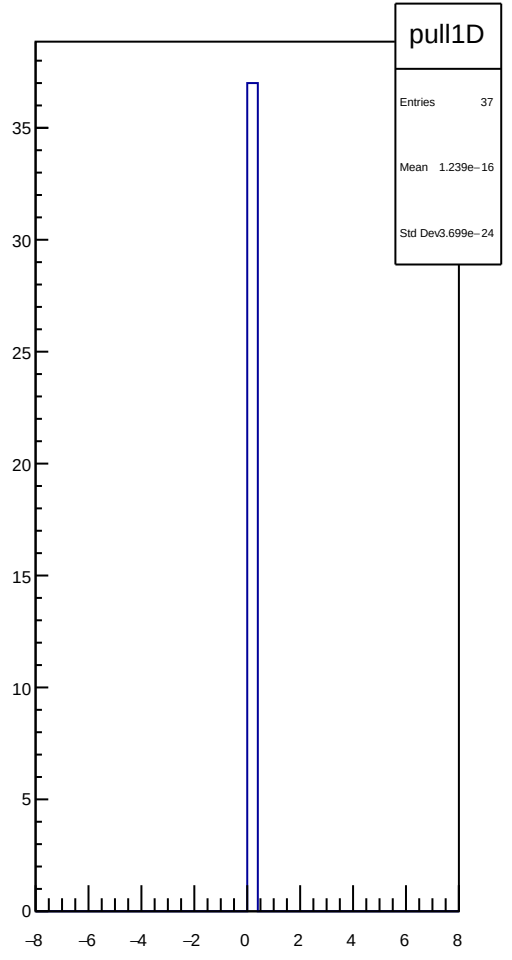

dit_atr2_4aY_slope vs run
χ² / ndf 1.113e−30 / 36
p0 −76.24 ± 13.47
pull
Entries 37
Mean 18.5
Std Dev 10.68

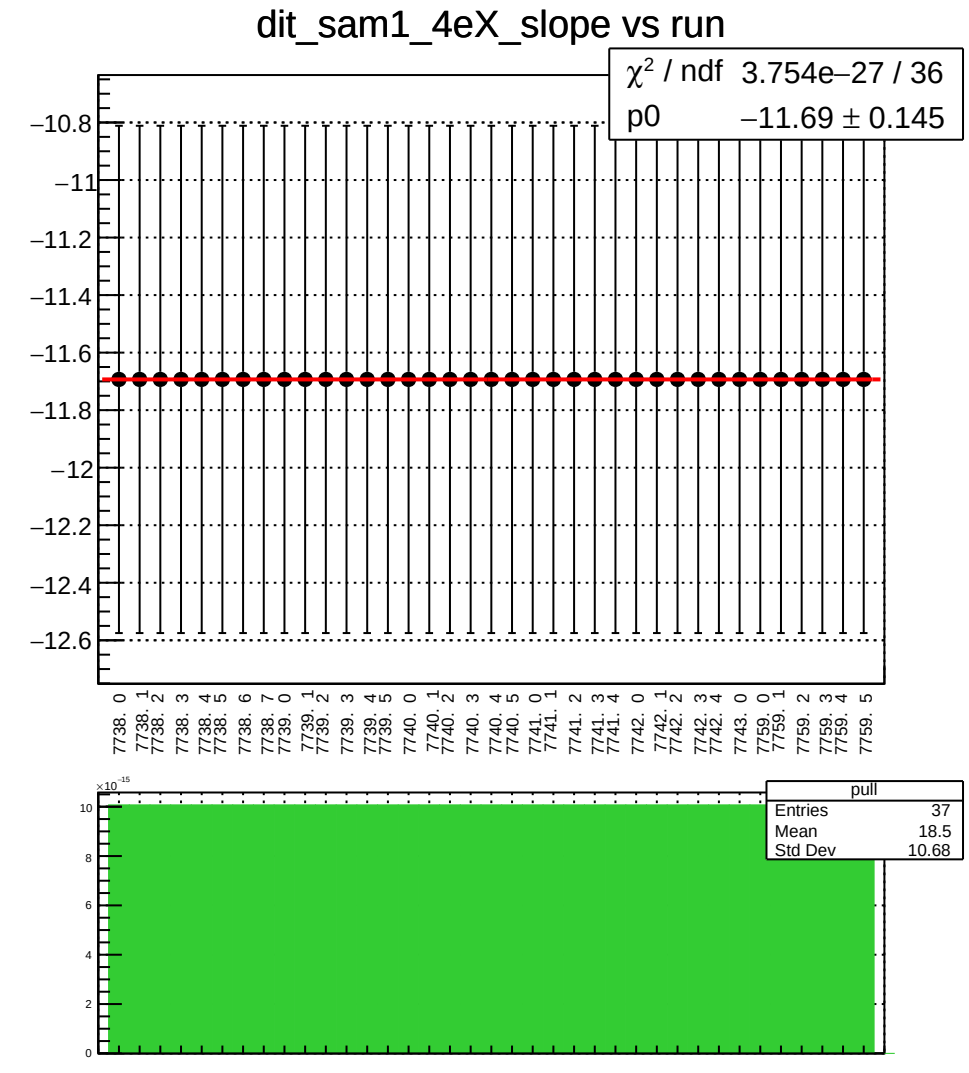

pull1D
Entries 37
Mean −1.734e−16
Std Dev 4.679e−24

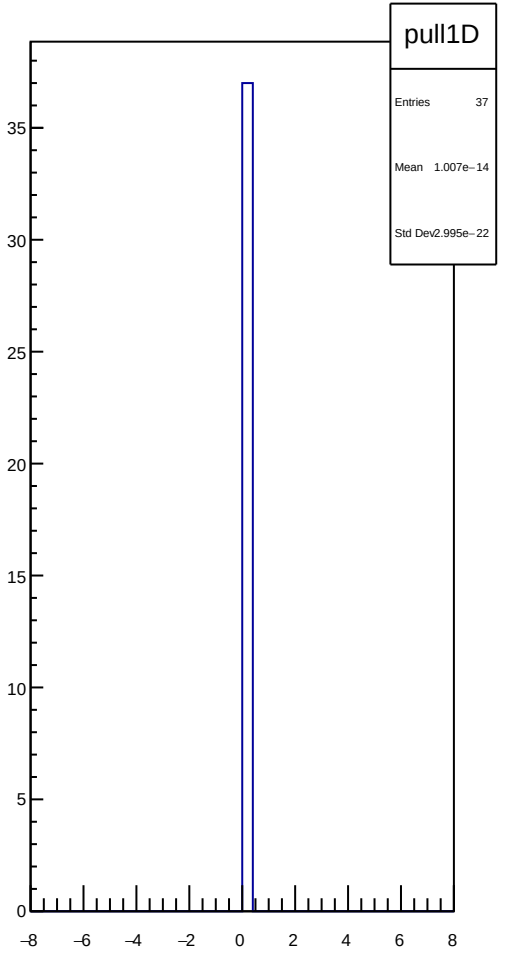

dit_atr2_4eY_slope vs run
χ² / ndf 4.168e−28 / 36
p0 172.9 ± 11.14
240
220
200
180
160
140
120
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 37
Mean 18.5
Std Dev 10.68

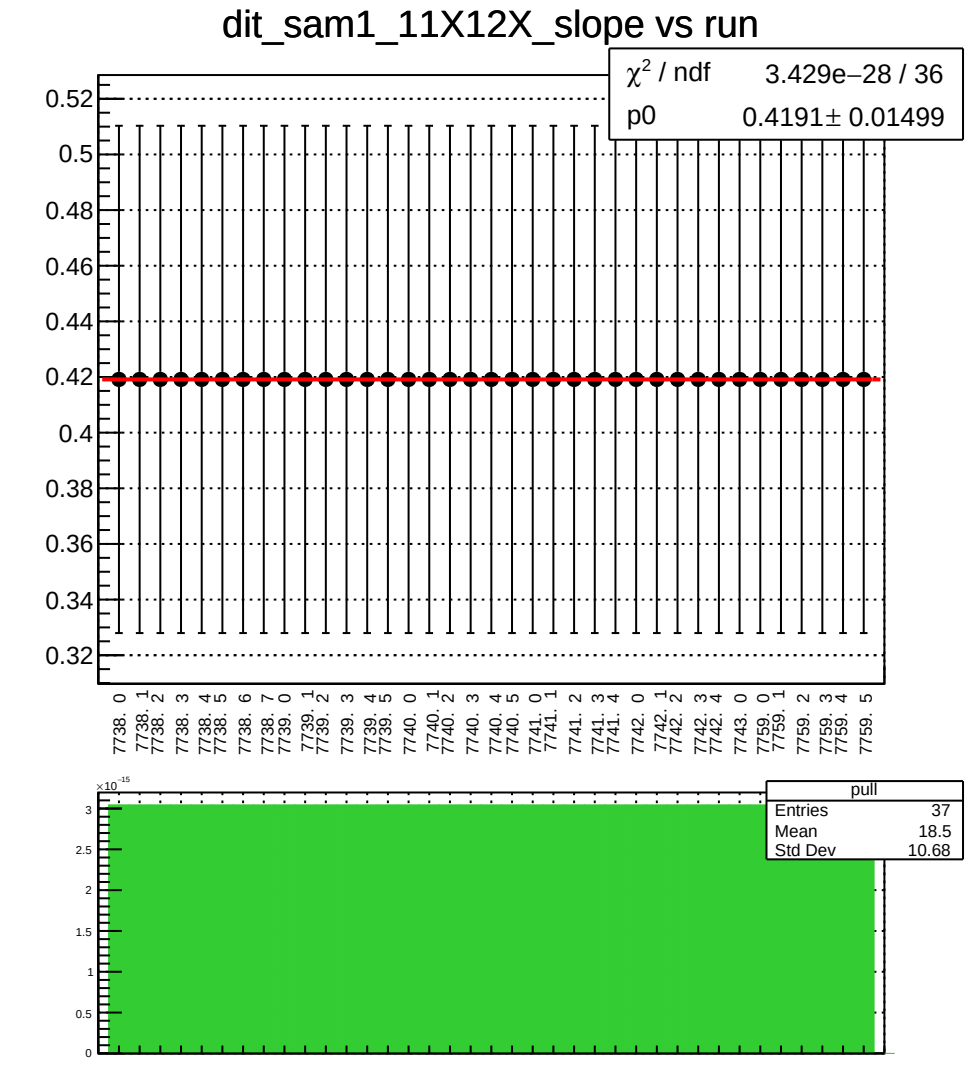

pull1D
Entries 37
Mean −3.356e−15
Std Dev1.184e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

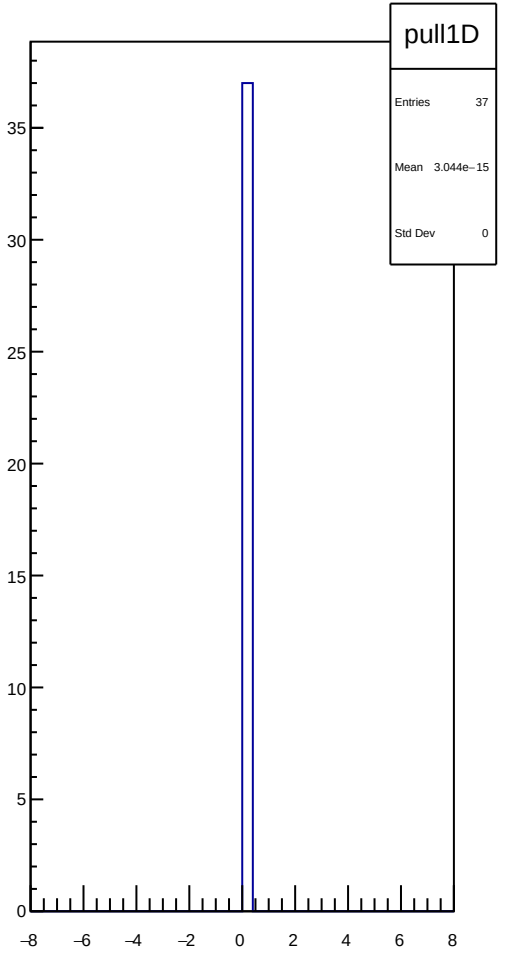

dit_sam1_4aX_slope vs run
χ² / ndf 5.676e−31 / 36
p0 0.1612 ± 0.03684
0.4
0.3
0.2
0.1
0
−0.1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.12
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

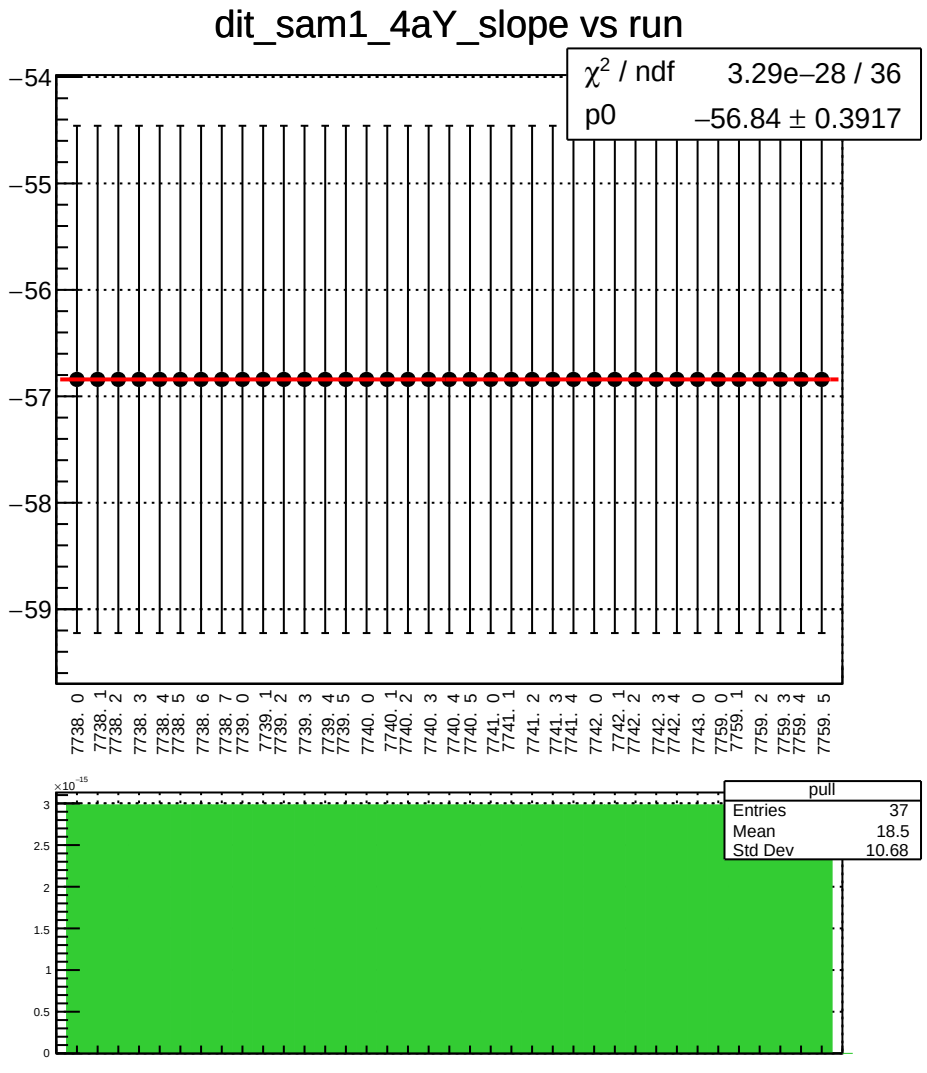

pull1D
Entries 37
Mean 1.239e−16
Std Dev3.699e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

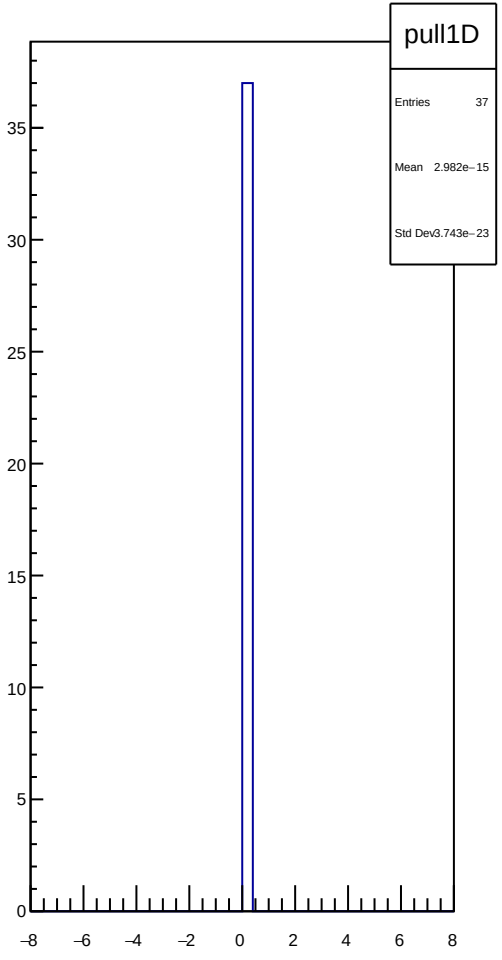

dit_sam1_4eX_slope vs run
χ² / ndf 3.754e−27 / 36
p0 −11.69 ± 0.145
−10.8
−11
−11.2
−11.4
−11.6
−11.8
−12
−12.2
−12.4
−12.6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

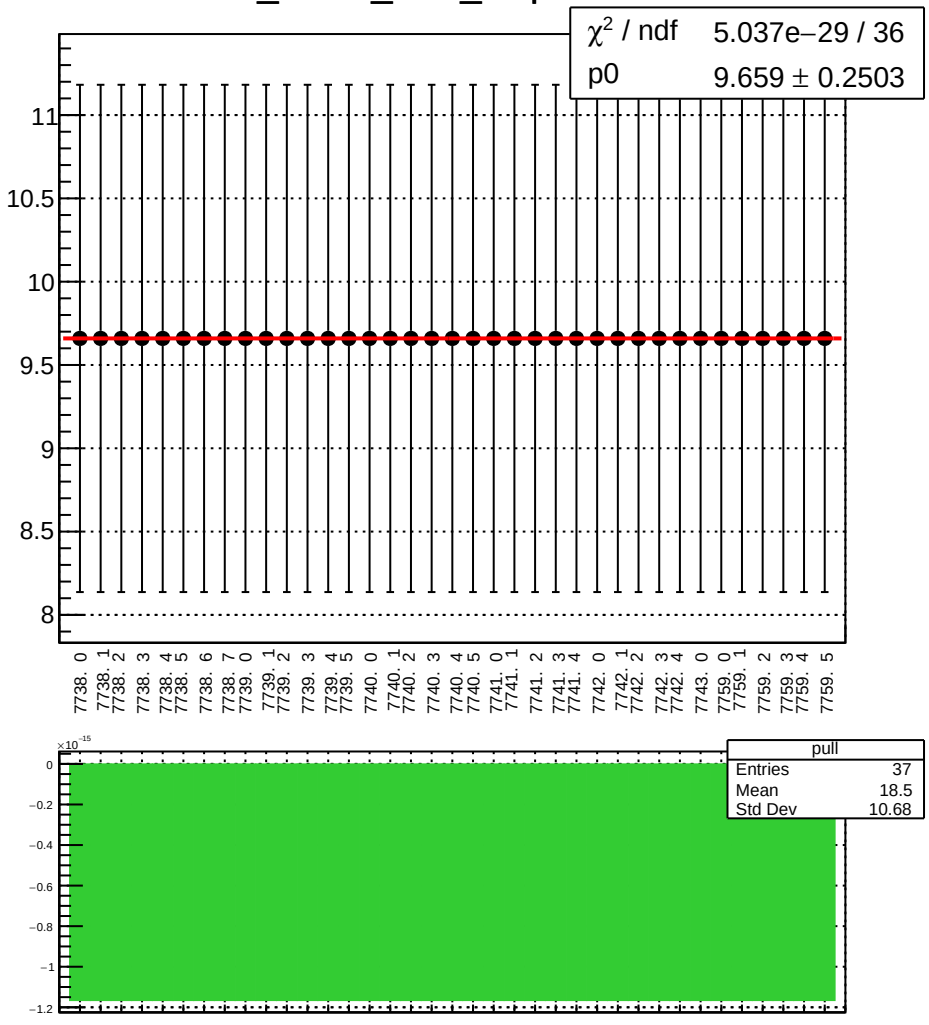

pull1D
Entries 37
Mean 1.007e−14
Std Dev 2.995e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

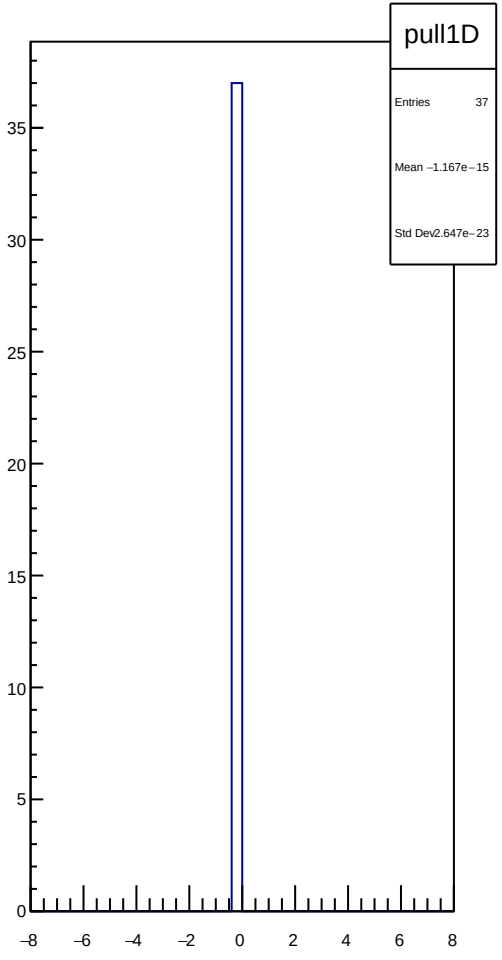

dit_sam1_11X12X_slope vs run
χ² / ndf 3.429e−28 / 36
p0 0.4191± 0.01499
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

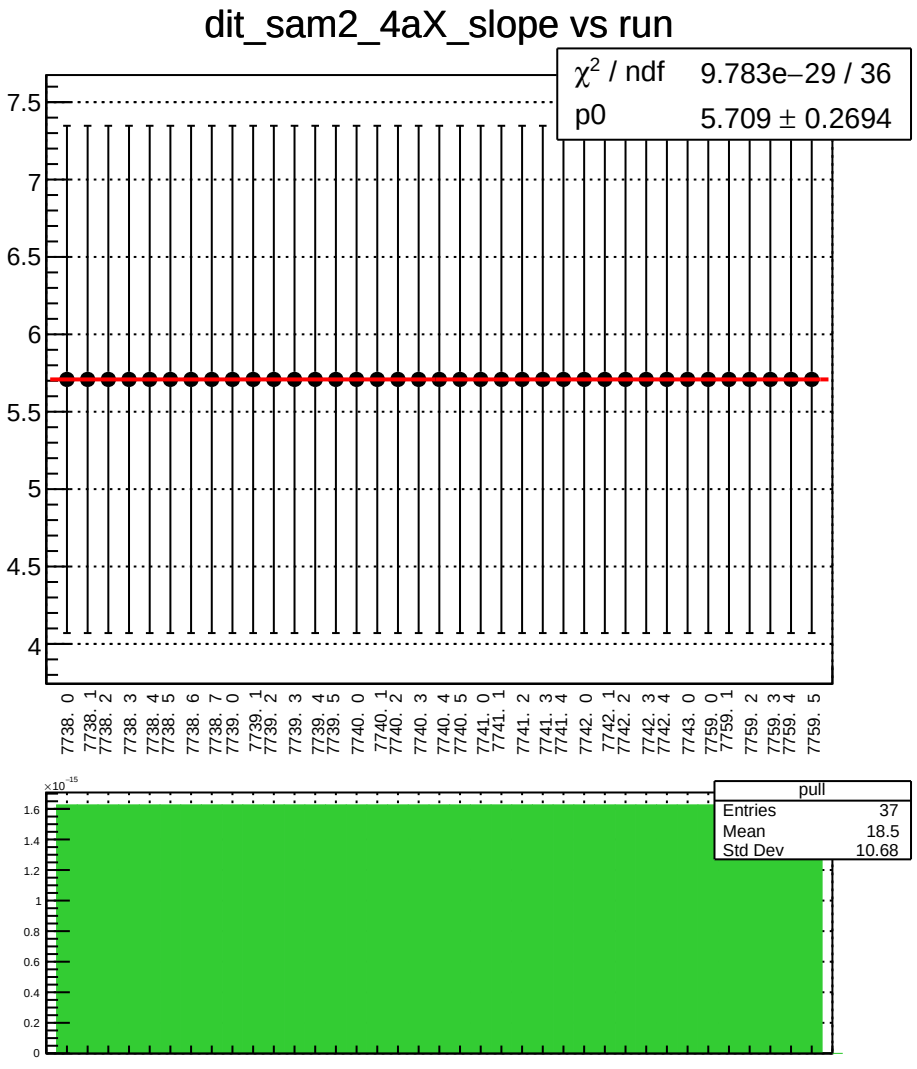

pull1D
Entries 37
Mean 3.044e−15
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

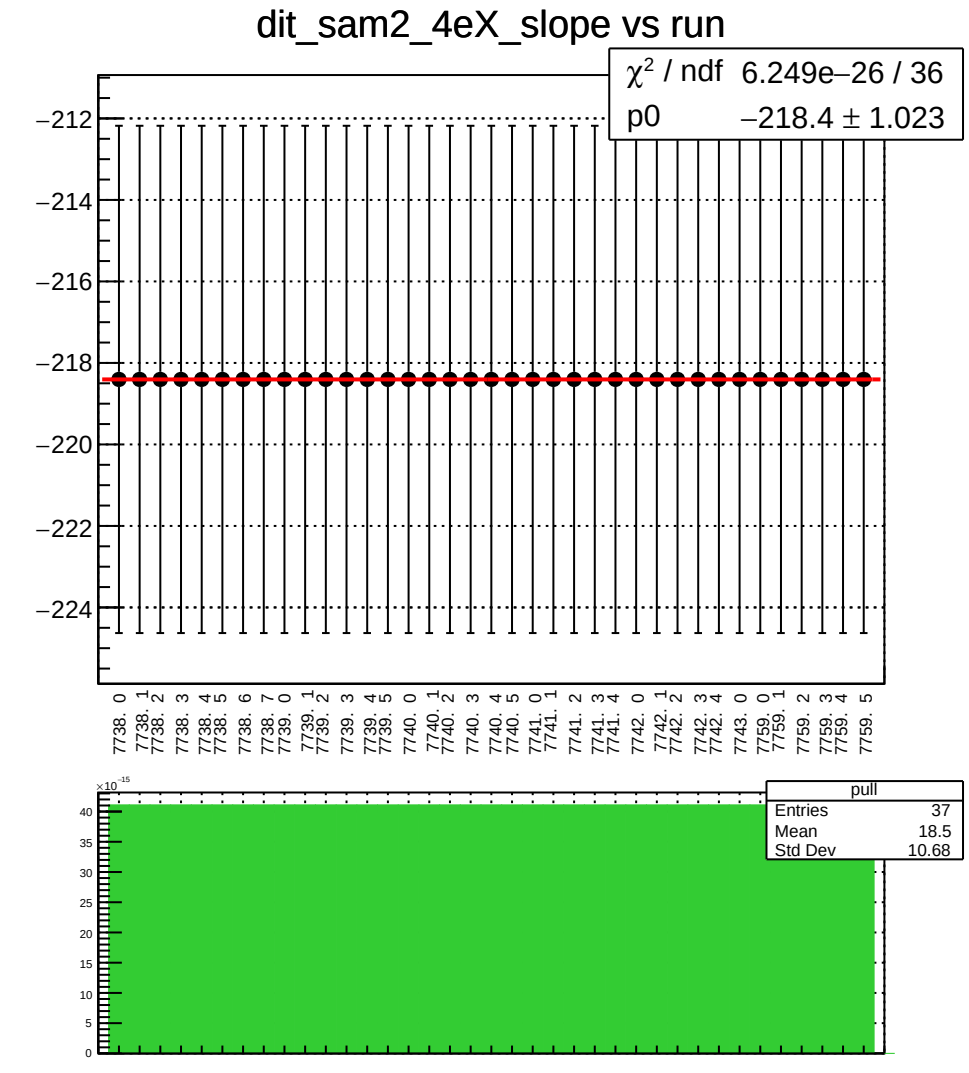

dit_sam1_4aY_slope vs run
χ² / ndf 3.29e−28 / 36
p0 −56.84 ± 0.3917
−54
−55
−56
−57
−58
−59
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

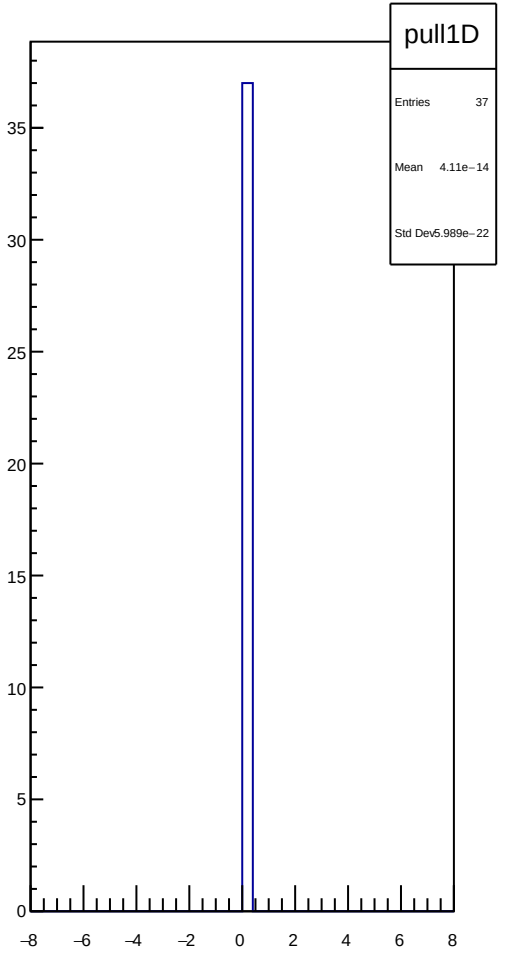

pull1D
Entries 37
Mean 2.982e−15
Std Dev 3.743e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

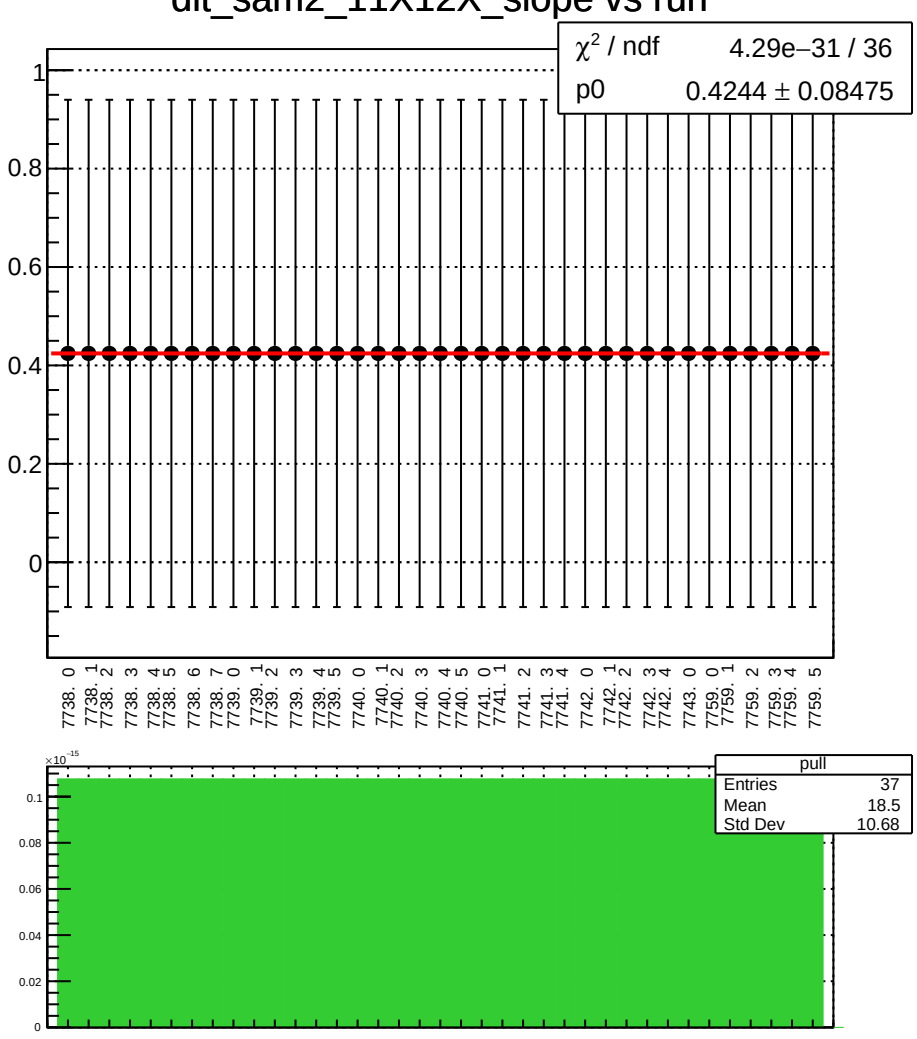

dit_sam1_4eY_slope vs run
χ² / ndf 5.037e−29 / 36
p0 9.659 ± 0.2503
11
10.5
10
9.5
9
8.5
8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 37
Mean 18.5
Std Dev 10.68

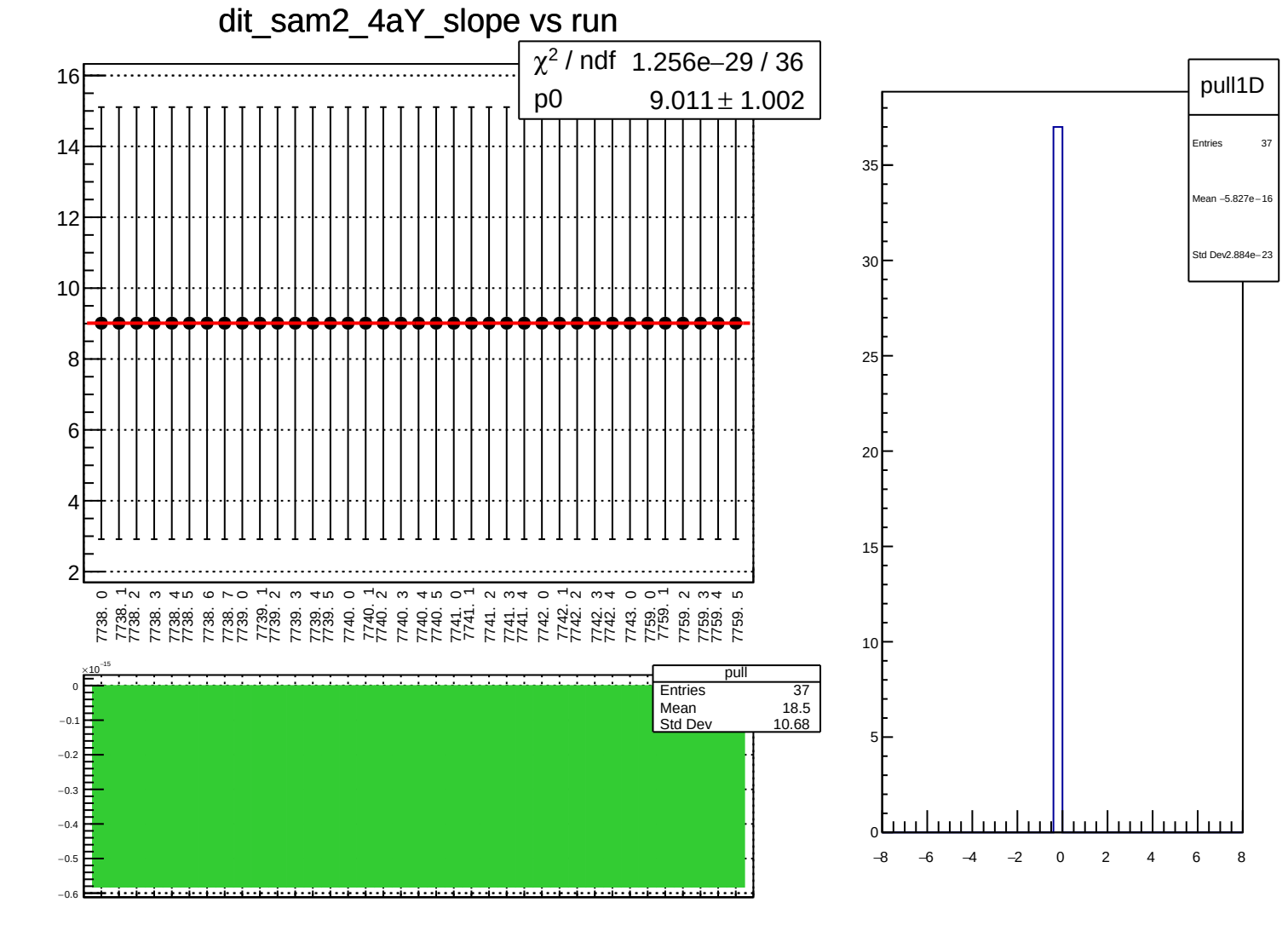

pull1D
Entries 37
Mean −1.167e−15
Std Dev 2.647e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

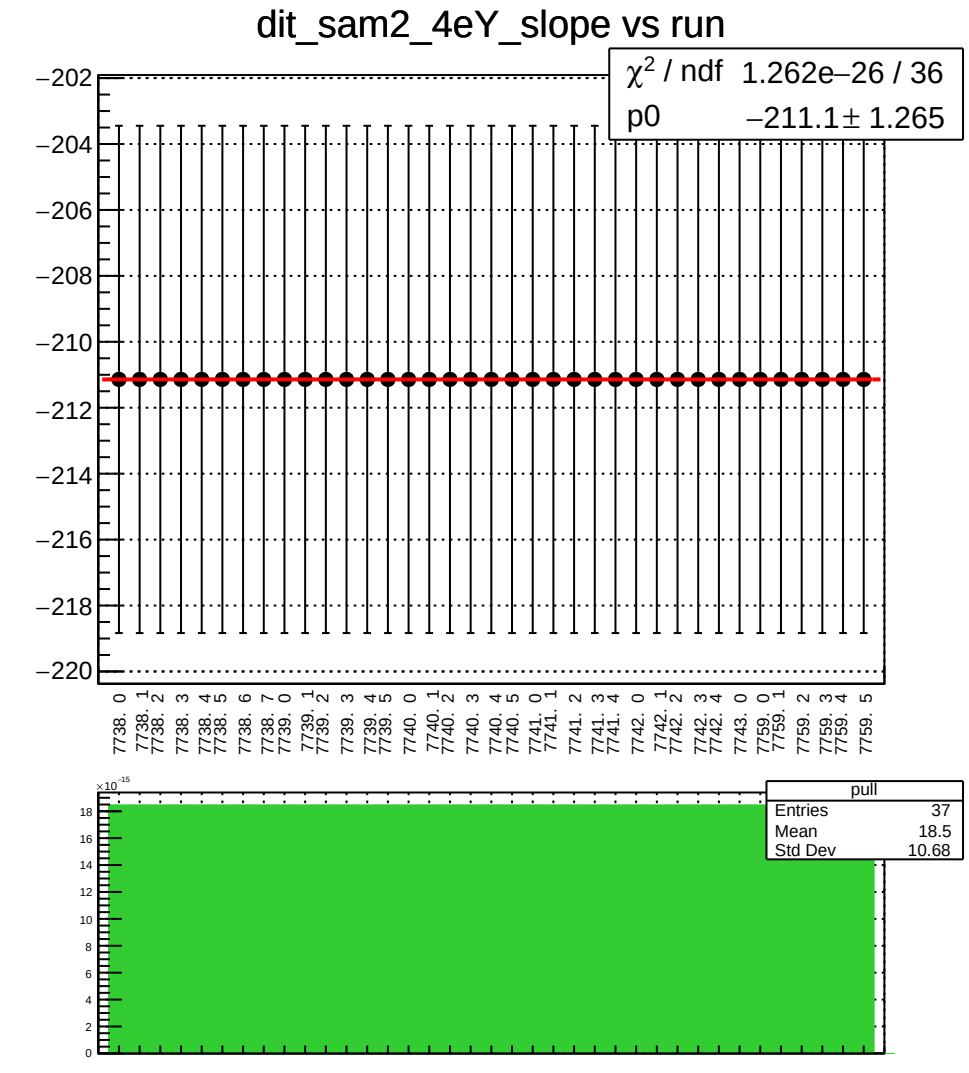

dit_sam2_4aX_slope vs run
χ² / ndf 9.783e−29 / 36
p0 5.709 ± 0.2694
7.5
7
6.5
6
5.5
5
4.5
4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.626e−15
Std Dev 6.208e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

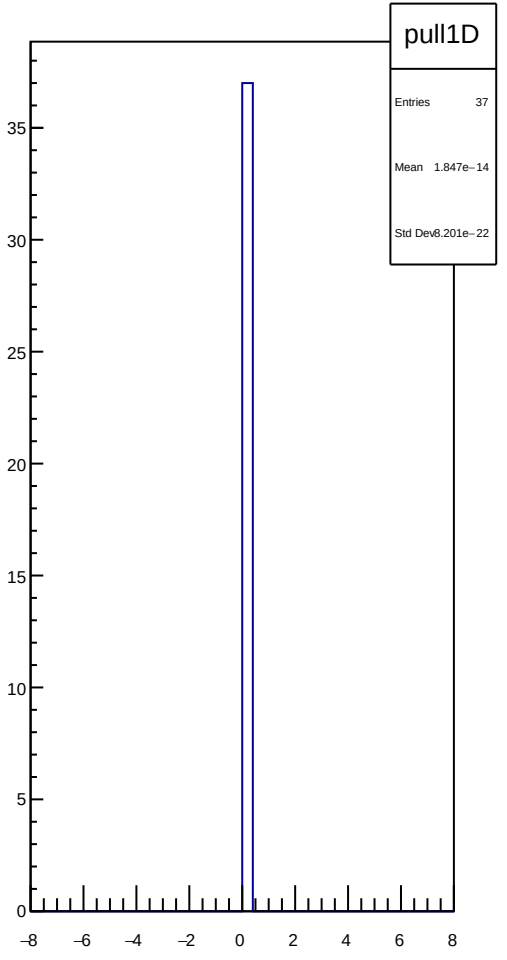

dit_sam2_4eX_slope vs run
χ² / ndf 6.249e−26 / 36
p0 −218.4 ± 1.023
−212
−214
−216
−218
−220
−222
−224
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
40
35
30
25
20
15
10
5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

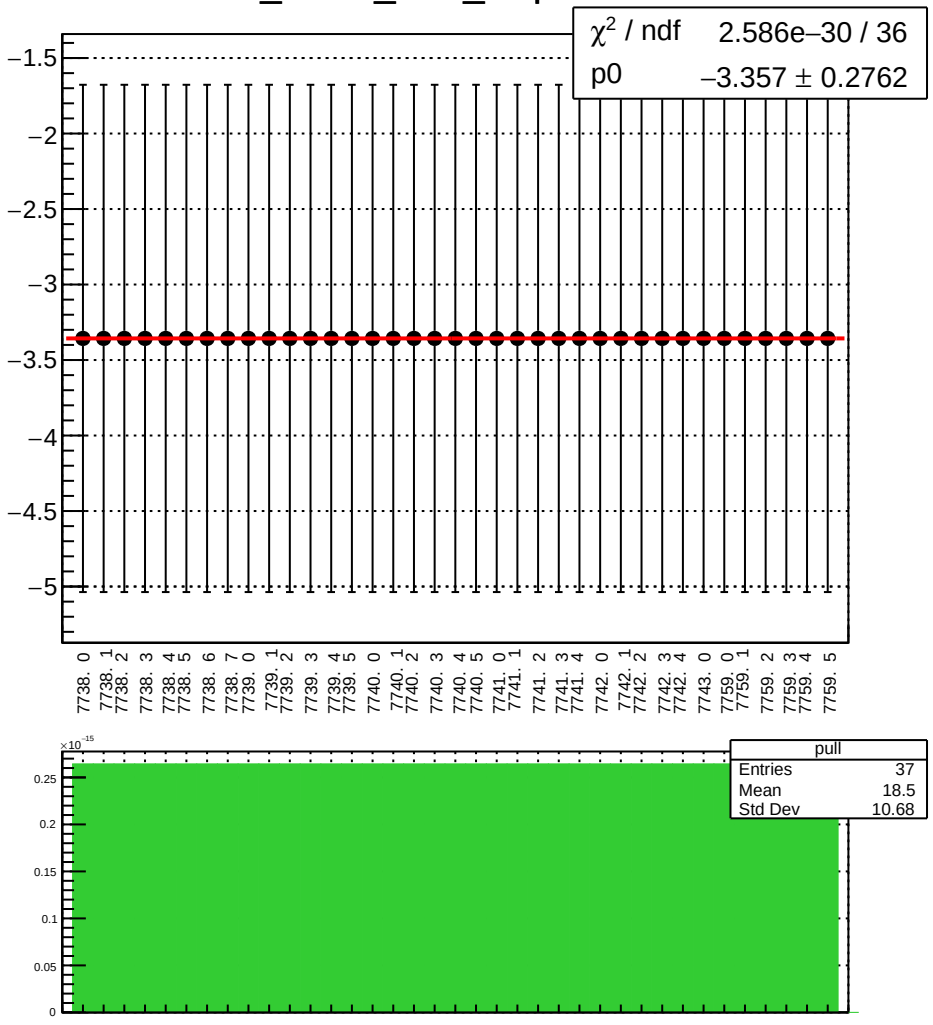

pull1D
Entries 37
Mean 4.11e−14
Std Dev 5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

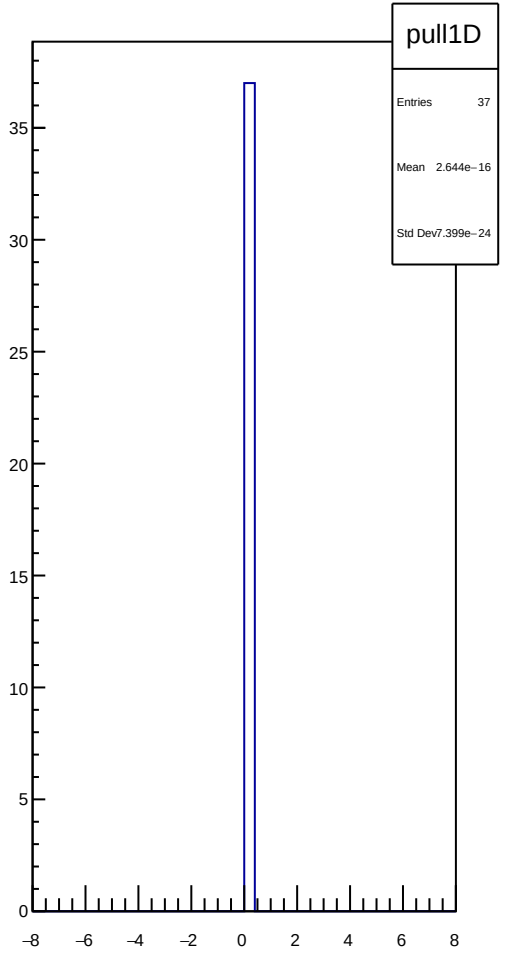

dit_sam2_11X12X_slope vs run
χ² / ndf 4.29e−31 / 36
p0 0.4244 ± 0.08475
1
0.8
0.6
0.4
0.2
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.077e−16
Std Dev1.654e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

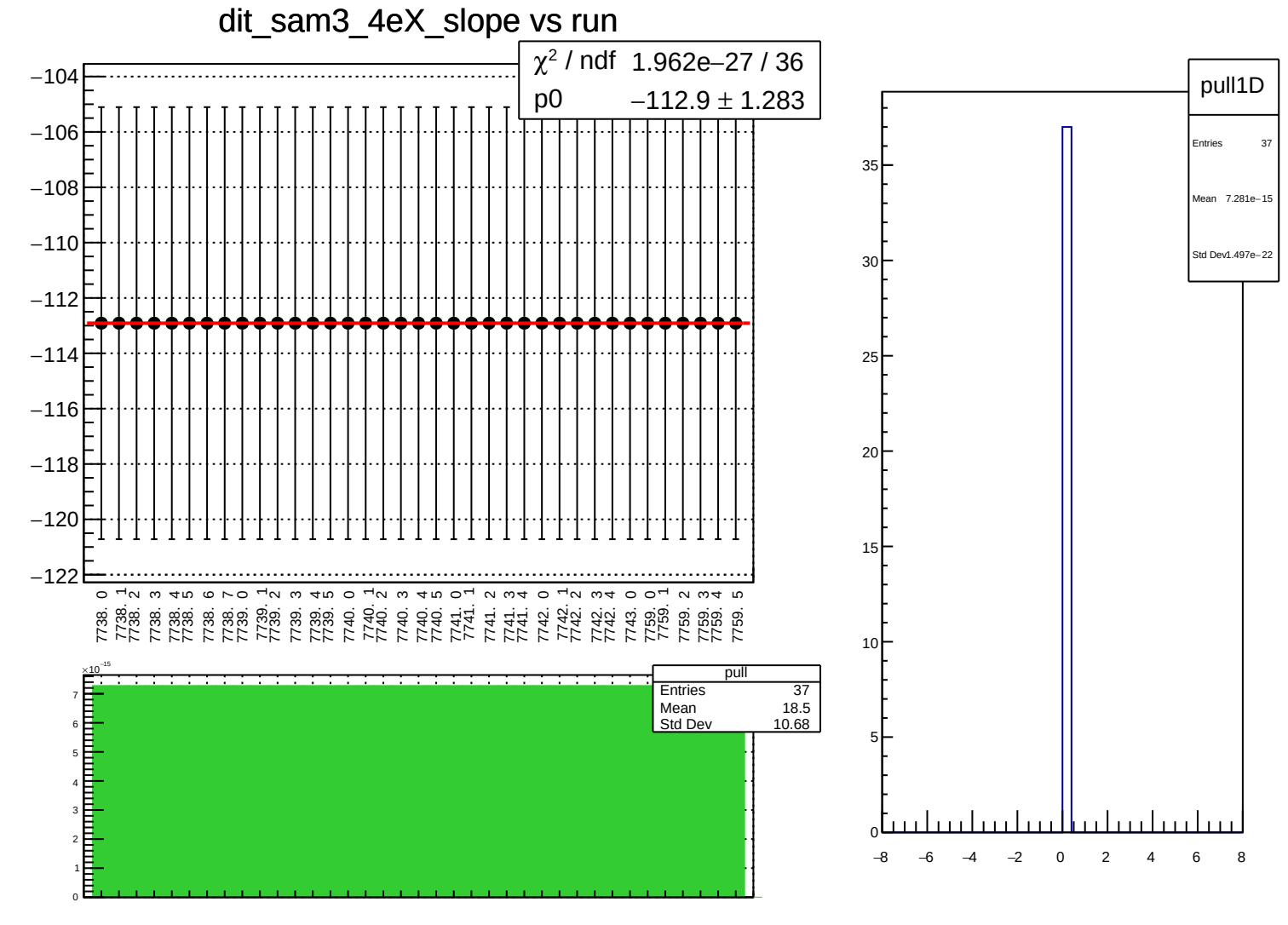

dit_sam2_4aY_slope vs run
χ² / ndf 1.256e−29 / 36
p0 9.011 ± 1.002
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −5.827e−16
Std Dev 2.884e−23

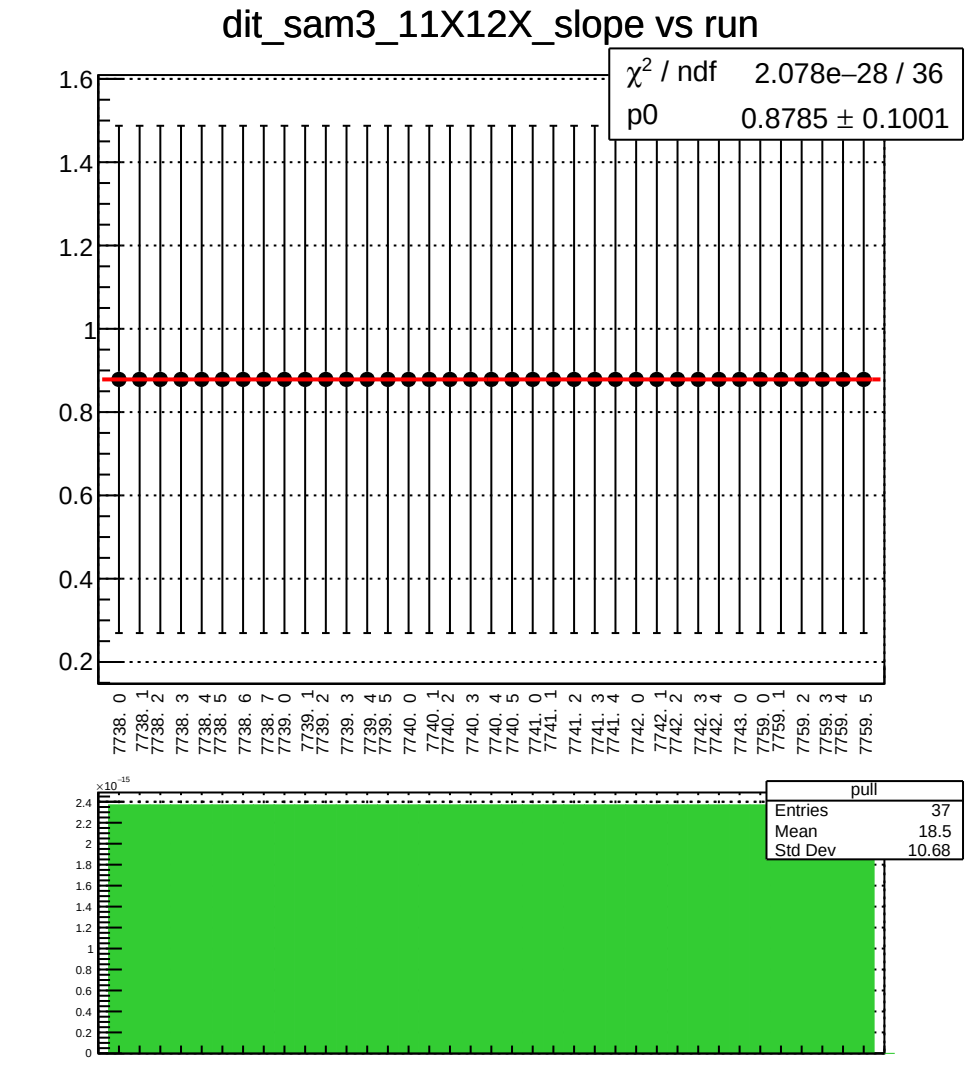

dit_sam2_4eY_slope vs run
χ² / ndf 1.262e−26 / 36
p0 −211.1± 1.265
−202
−204
−206
−208
−210
−212
−214
−216
−218
−220
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
18
16
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

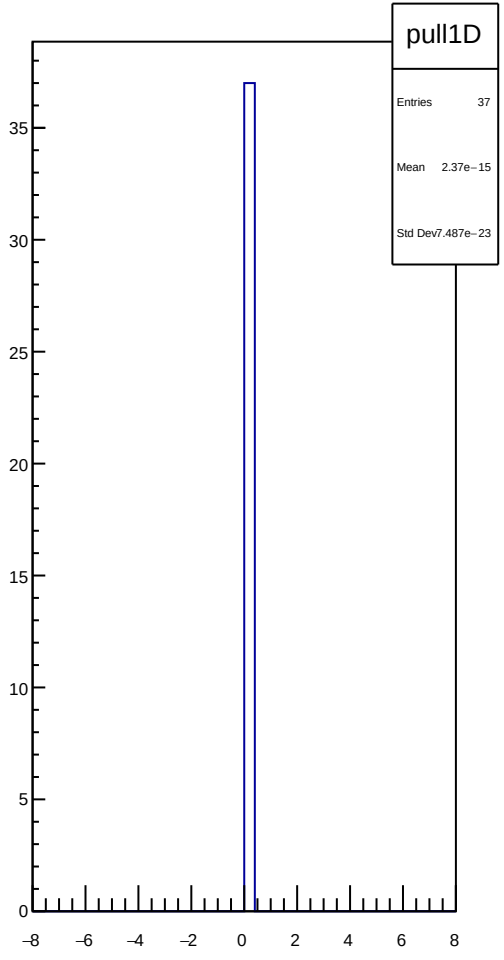

pull1D
Entries 37
Mean 1.847e−14
Std Dev 8.201e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

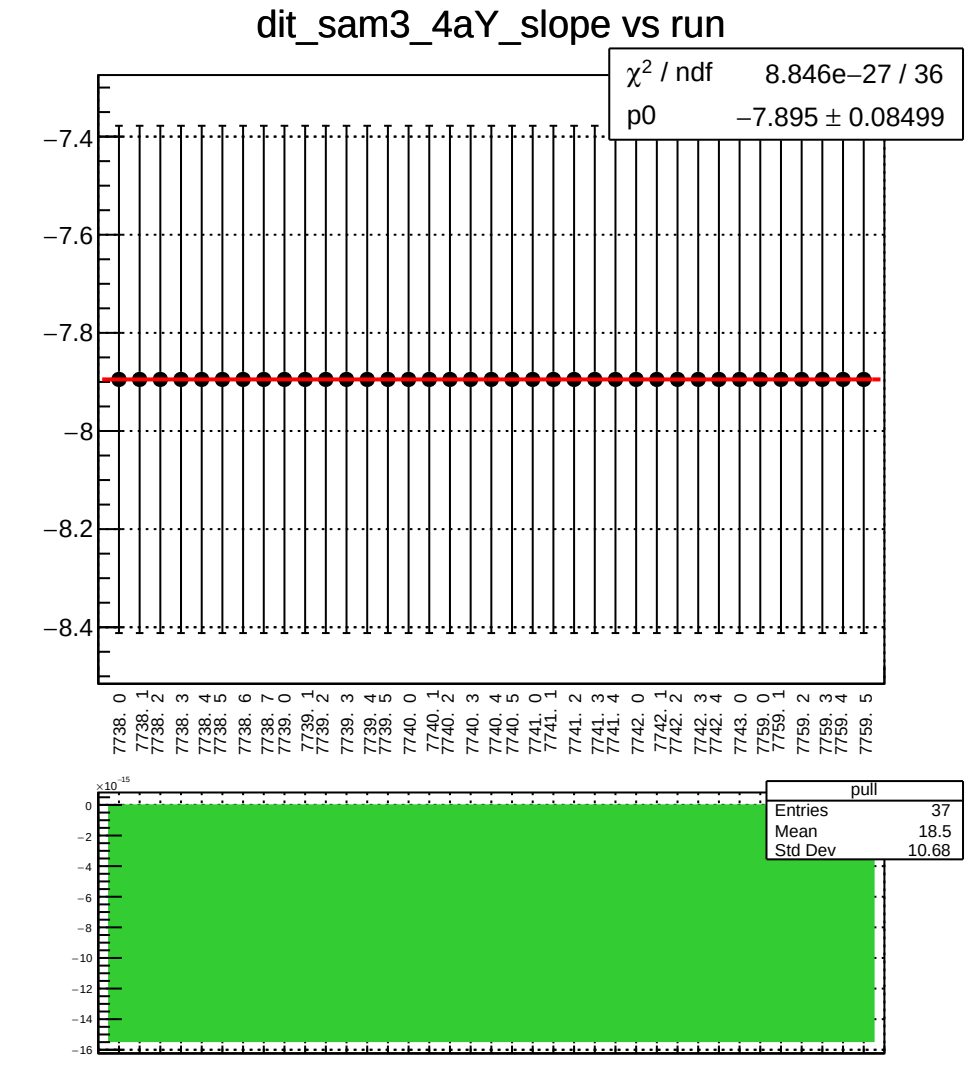

dit_sam3_4aX_slope vs run
χ² / ndf 2.586e−30 / 36
p0 −3.357 ± 0.2762
−1.5
−2
−2.5
−3
−3.5
−4
−4.5
−5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

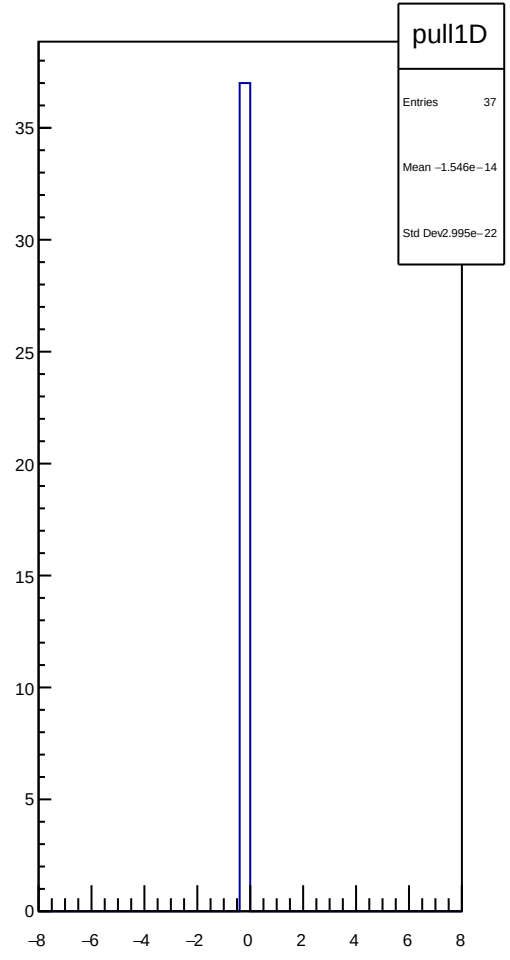

pull1D
Entries 37
Mean 2.644e−16
Std Dev7.399e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

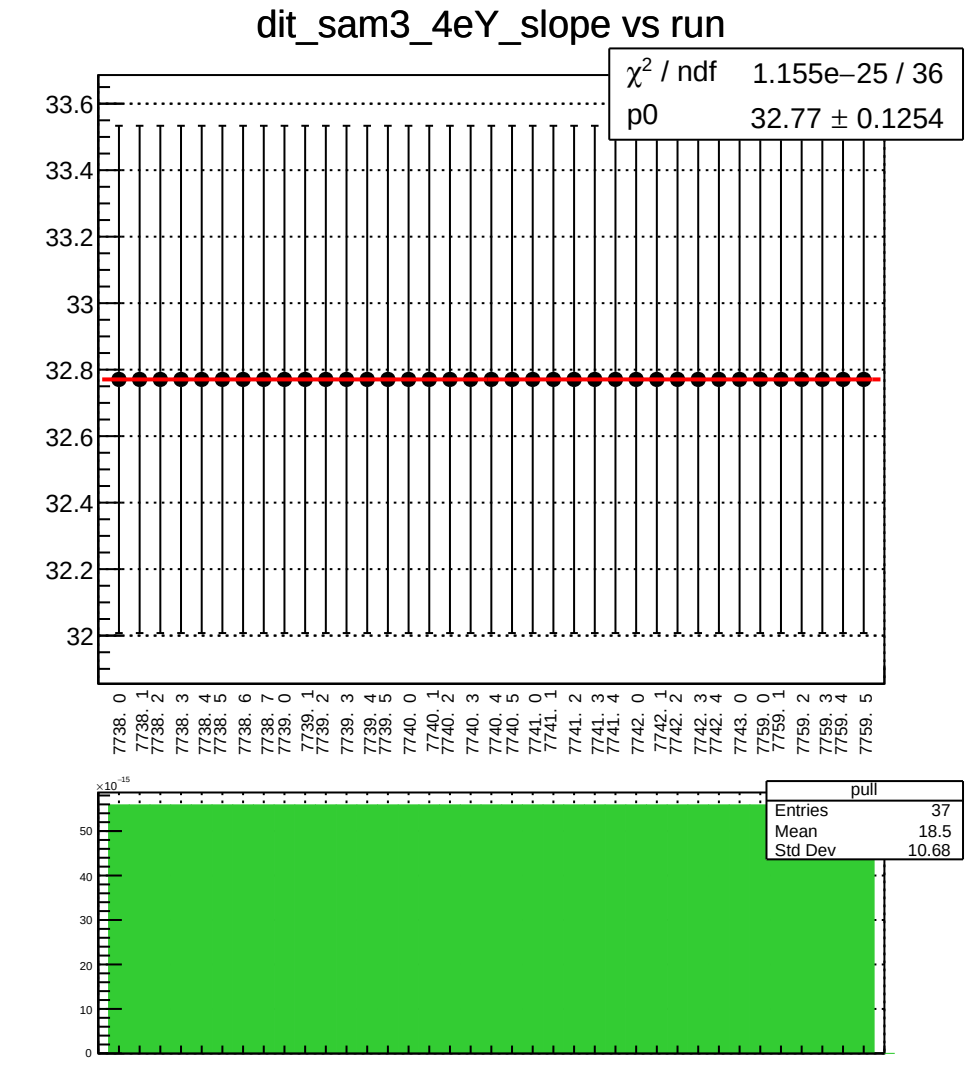

dit_sam3_4eX_slope vs run
χ² / ndf 1.962e−27 / 36
p0 −112.9 ± 1.283
−104
−106
−108
−110
−112
−114
−116
−118
−120
−122
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.5
Std Dev 10.68
×10⁻¹⁵
pull1D
Entries 37
Mean 7.281e−15
Std Dev1.497e−22

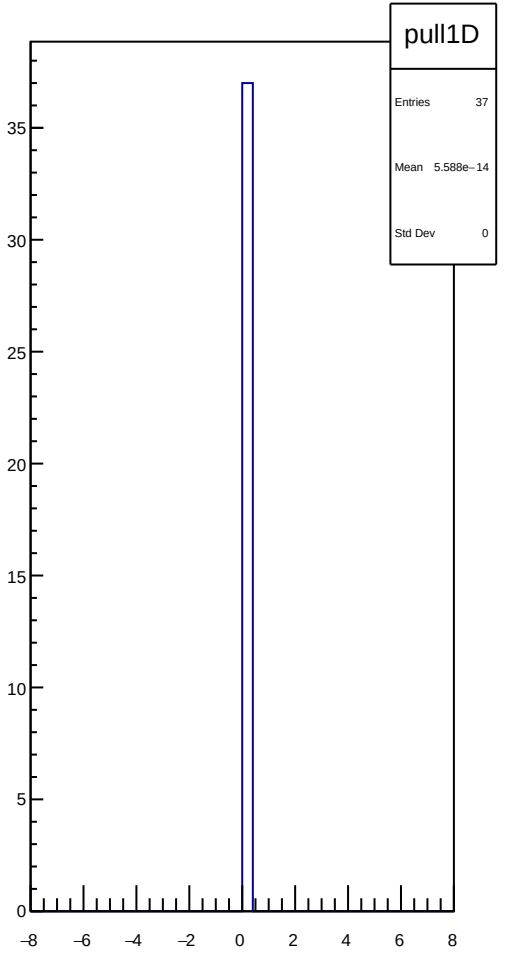

dit_sam3_11X12X_slope vs run
χ² / ndf 2.078e−28 / 36
p0 0.8785 ± 0.1001
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 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 37
Mean 18.5
Std Dev 10.68

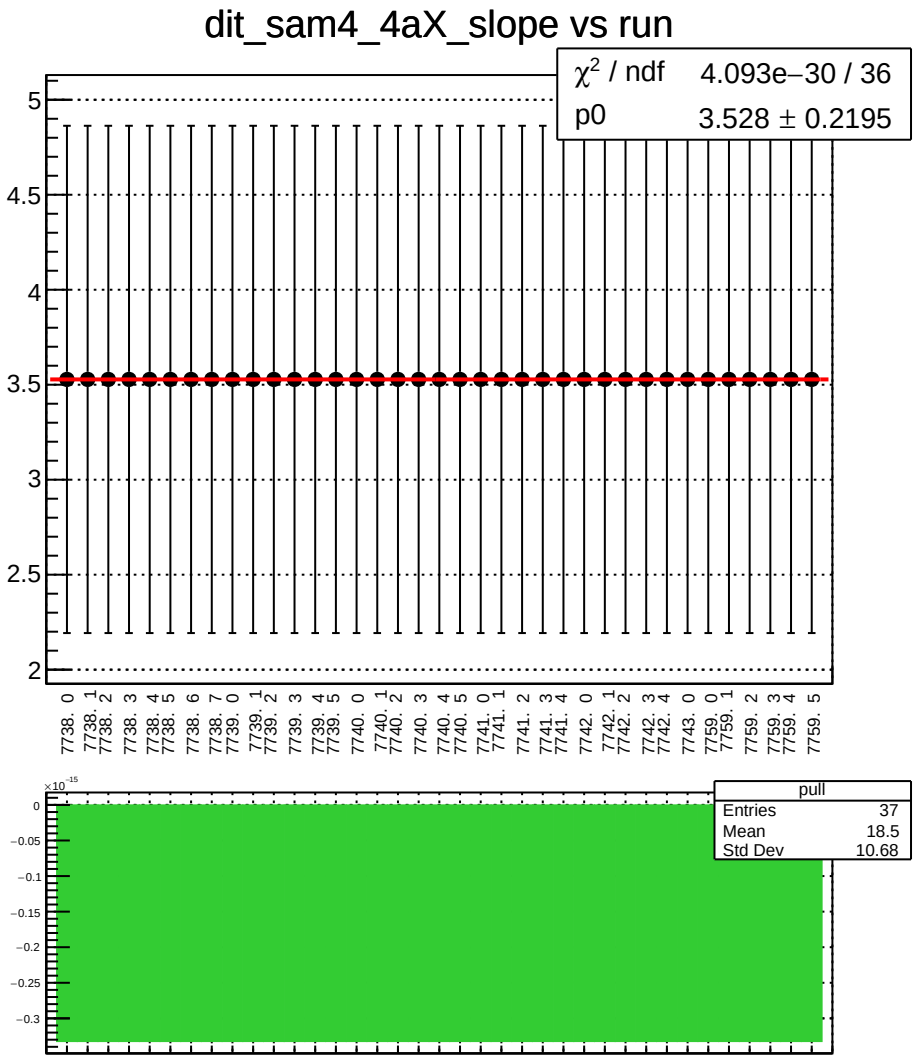

pull1D
Entries 37
Mean 2.37e−15
Std Dev7.487e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

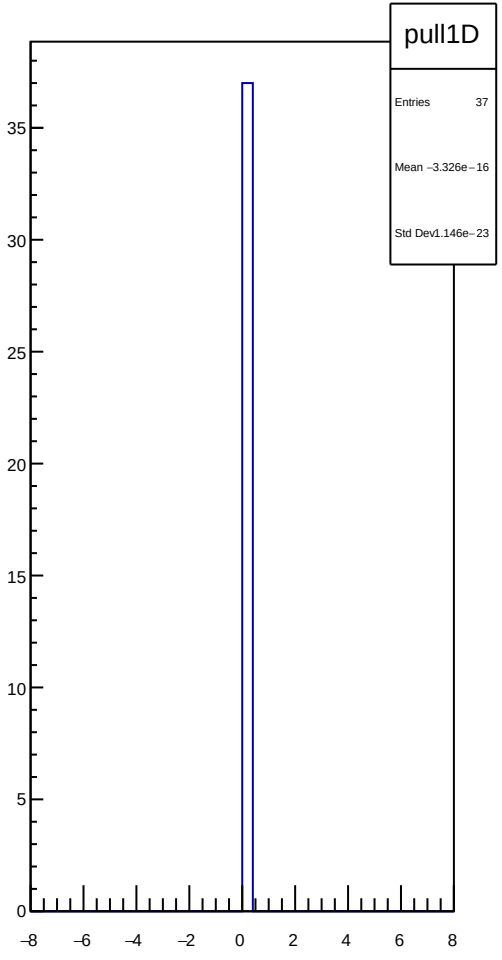

dit_sam3_4aY_slope vs run
χ² / ndf 8.846e−27 / 36
p0 −7.895 ± 0.08499
−7.4
−7.6
−7.8
−8
−8.2
−8.4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
−12
−14
−16
pull
Entries 37
Mean 18.5
Std Dev 10.68

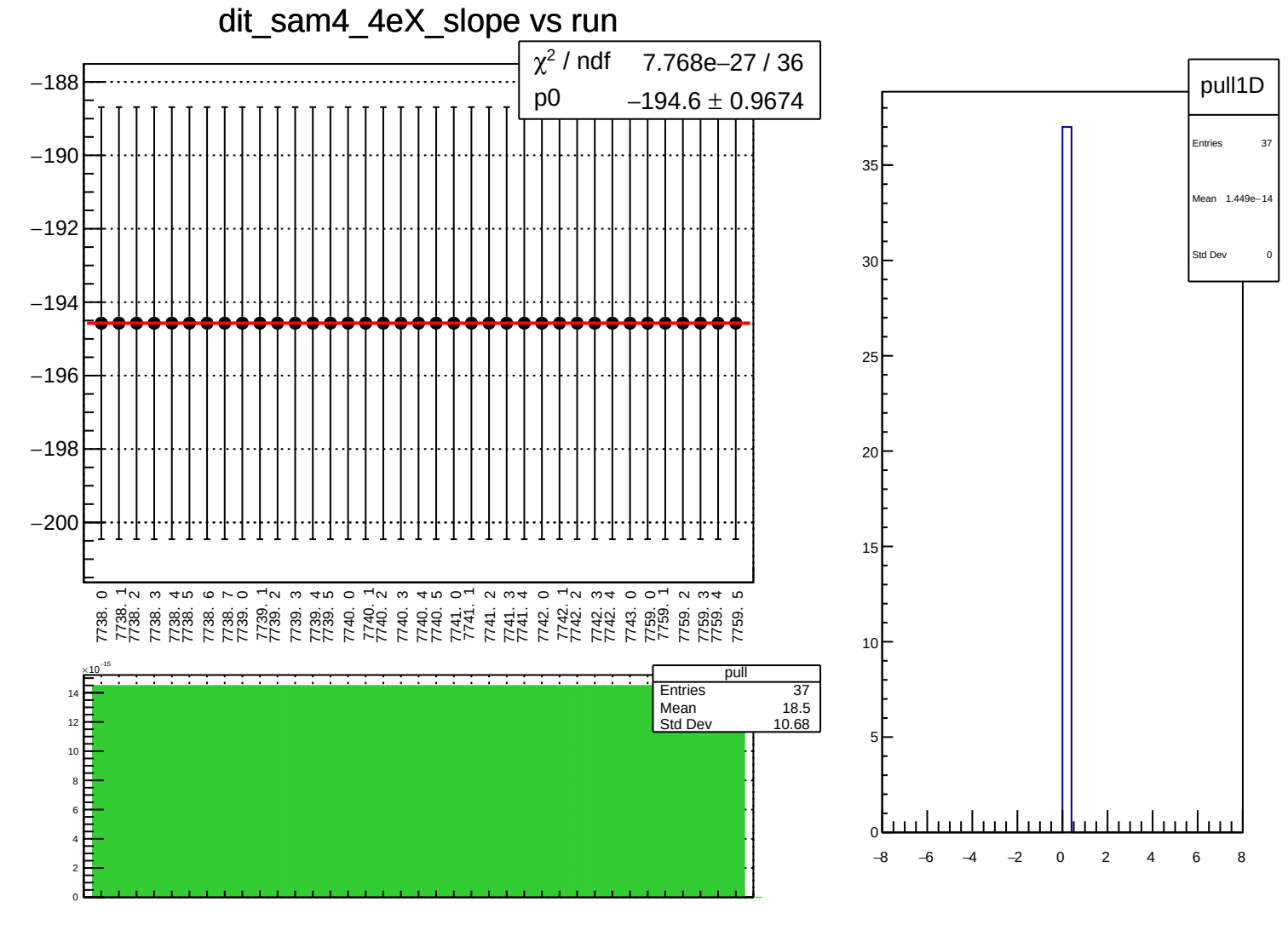

pull1D
Entries 37
Mean −1.546e−14
Std Dev 2.995e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

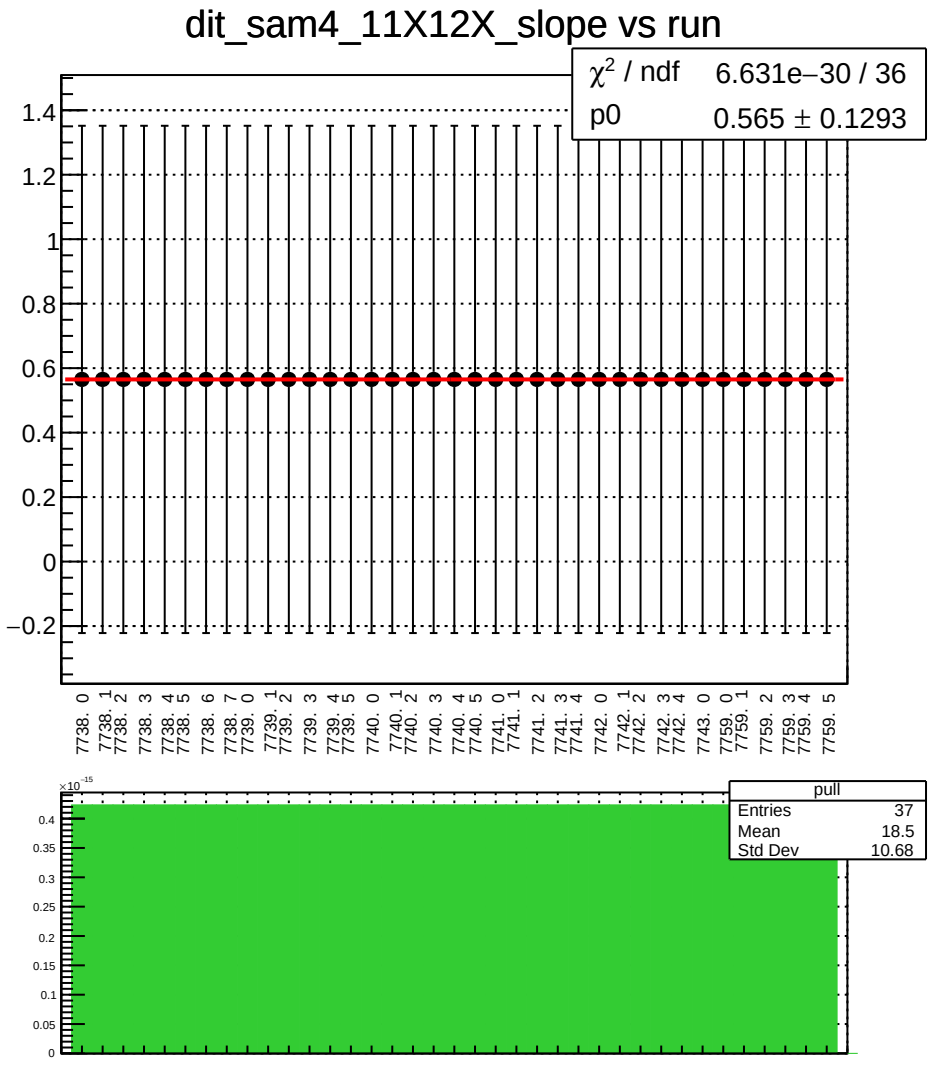

dit_sam3_4eY_slope vs run
χ² / ndf 1.155e−25 / 36
p0 32.77 ± 0.1254
33.6
33.4
33.2
33
32.8
32.6
32.4
32.2
32
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
50
40
30
20
10
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

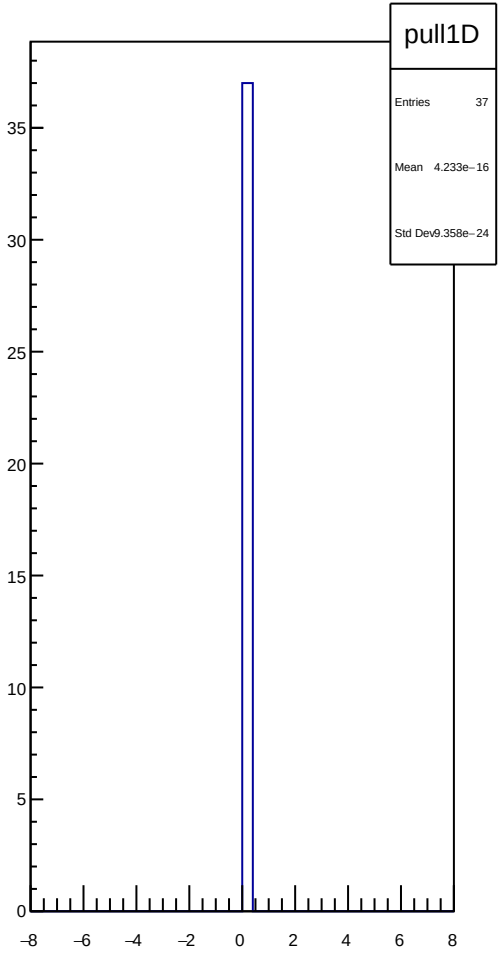

pull1D
Entries 37
Mean 5.588e−14
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

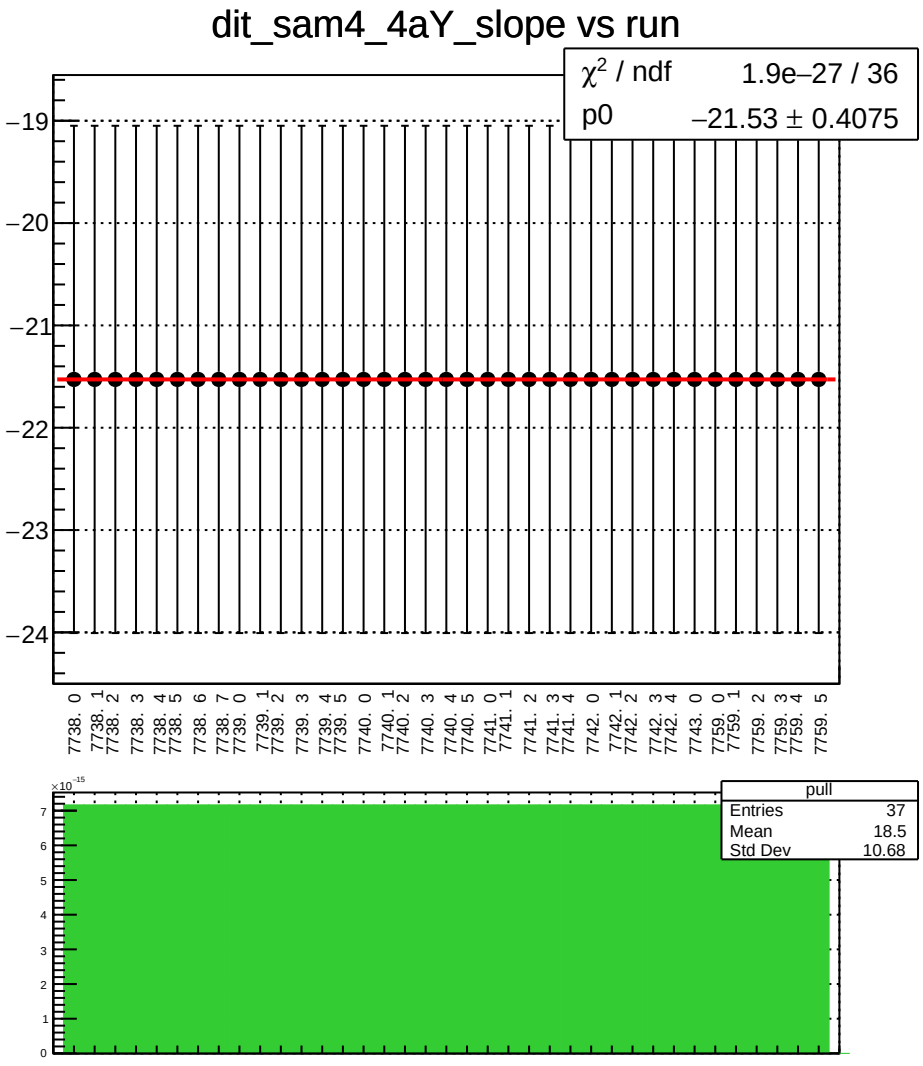

dit_sam4_4aX_slope vs run
χ² / ndf 4.093e−30 / 36
p0 3.528 ± 0.2195
5
4.5
4
3.5
3
2.5
2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 37
Mean 18.5
Std Dev 10.68

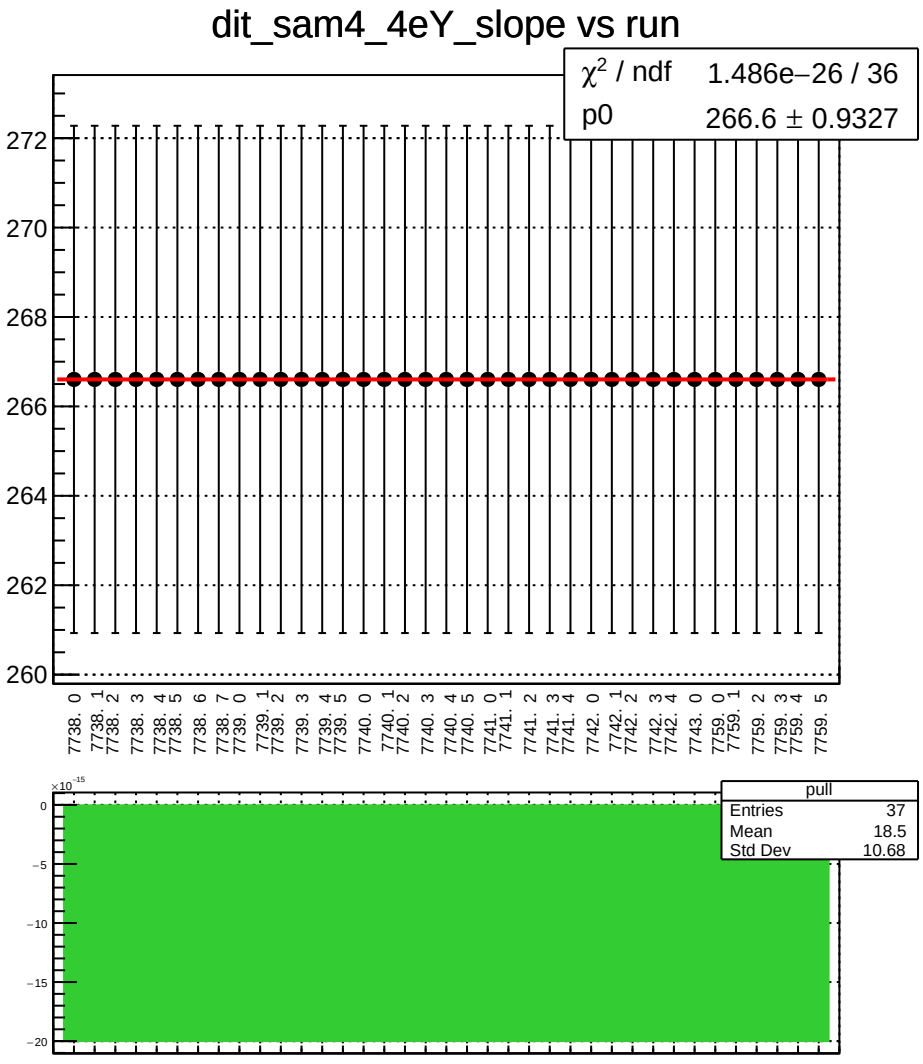

pull1D
Entries 37
Mean −3.326e−16
Std Dev1.146e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

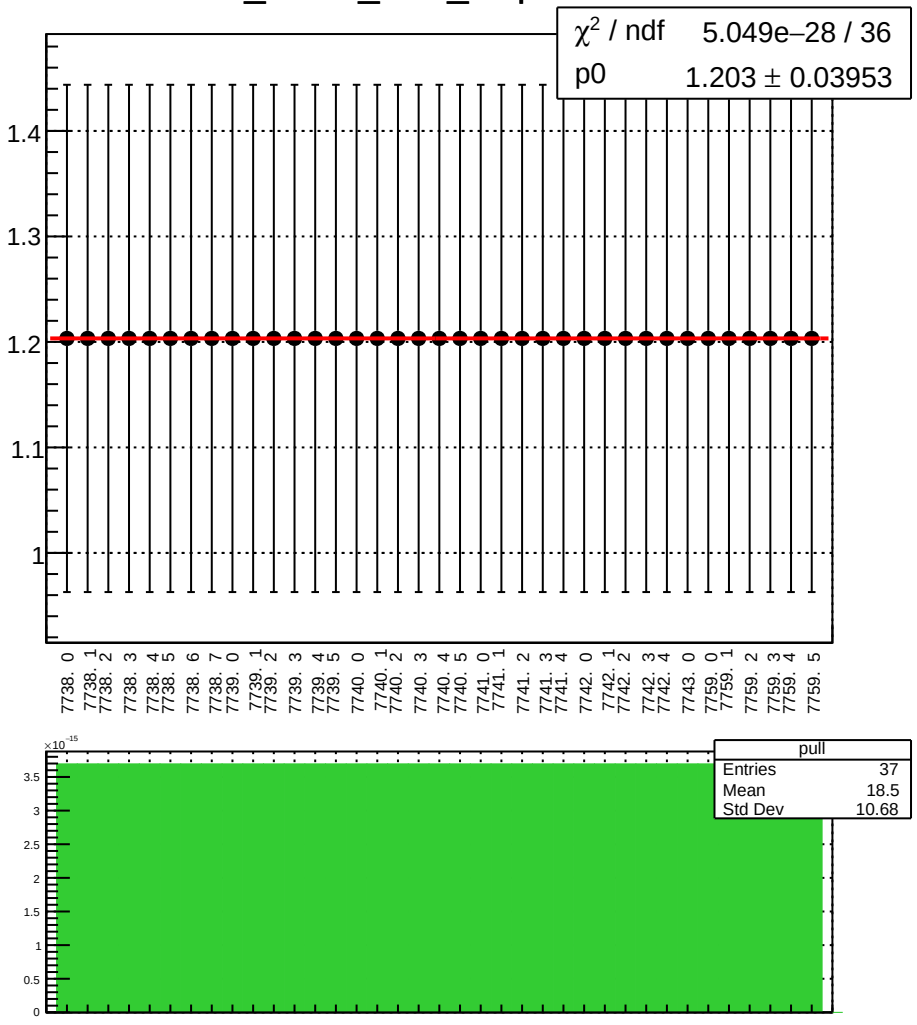

dit_sam4_4eX_slope vs run
χ² / ndf 7.768e−27 / 36
p0 −194.6 ± 0.9674
−188
−190
−192
−194
−196
−198
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.449e−14
Std Dev 0
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

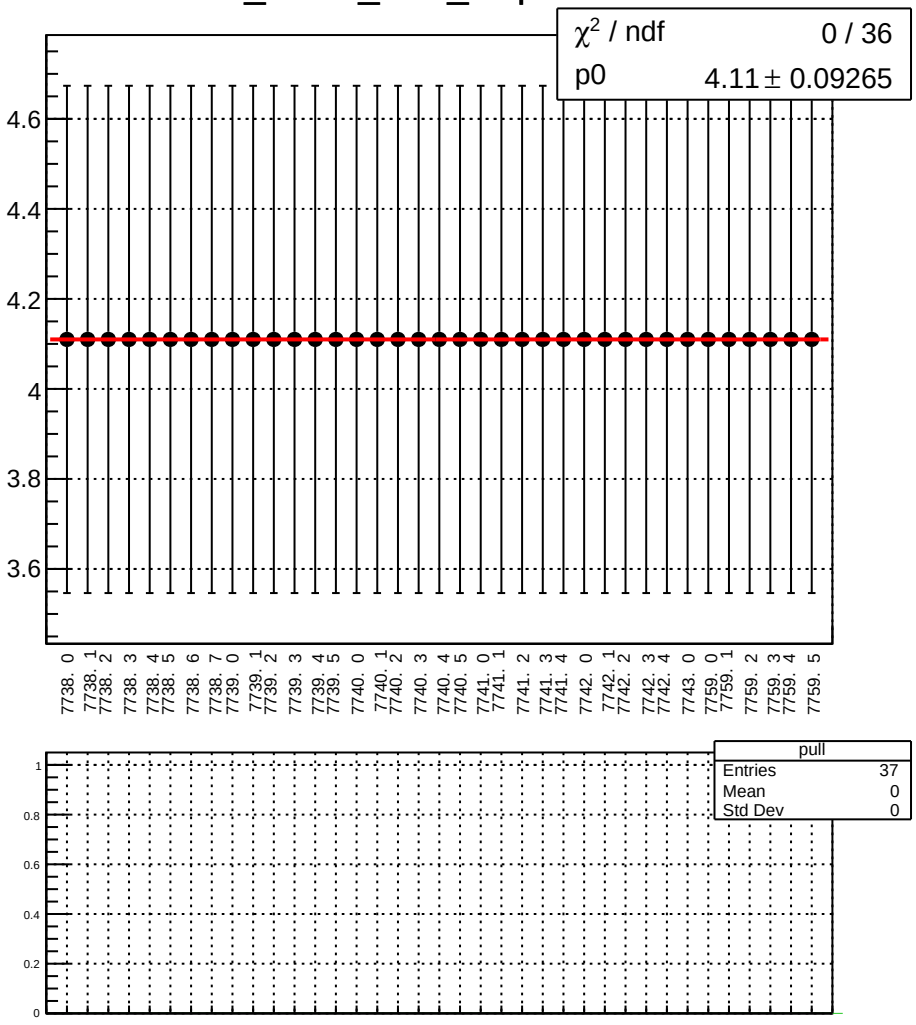

dit_sam4_11X12X_slope vs run
χ² / ndf 6.631e−30 / 36
p0 0.565 ± 0.1293
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

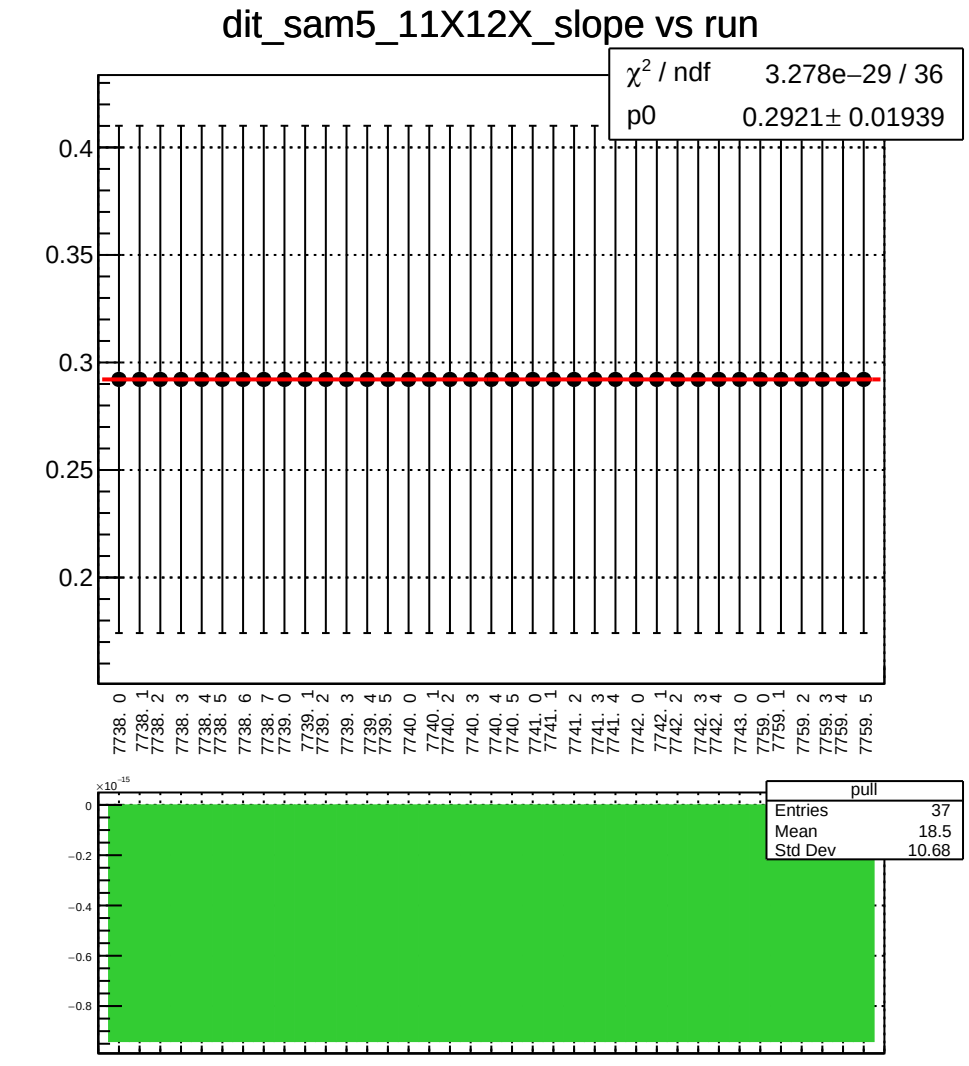

pull1D
Entries 37
Mean 4.233e−16
Std Dev 9.358e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

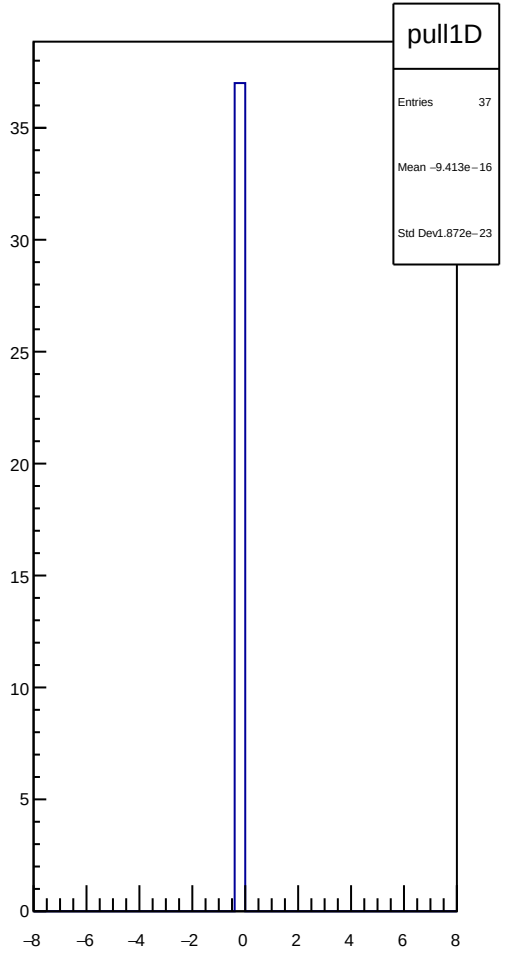

dit_sam4_4aY_slope vs run
χ² / ndf 1.9e−27 / 36
p0 −21.53 ± 0.4075
−19
−20
−21
−22
−23
−24
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 7.166e−15
Std Dev2.801e−22

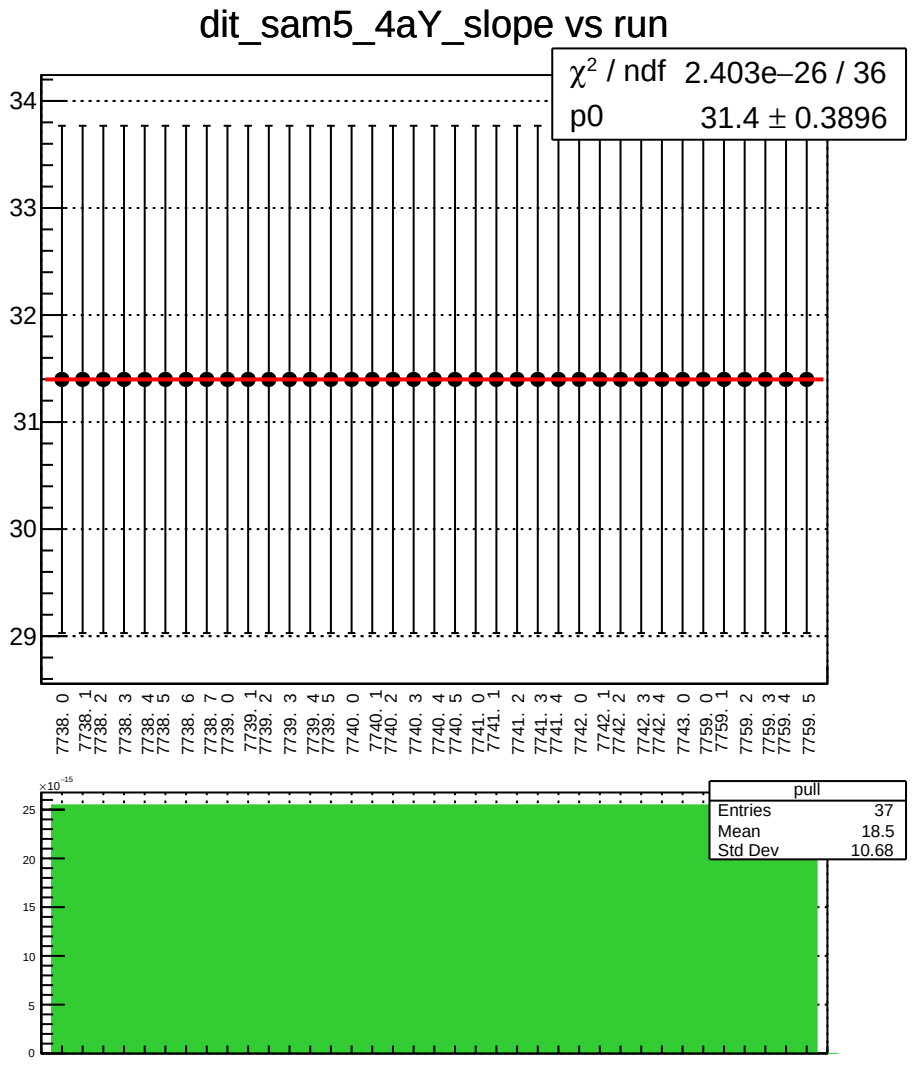

dit_sam4_4eY_slope vs run
χ² / ndf 1.486e−26 / 36
p0 266.6 ± 0.9327
272
270
268
266
264
262
260
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −2.004e−14
Std Dev 5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

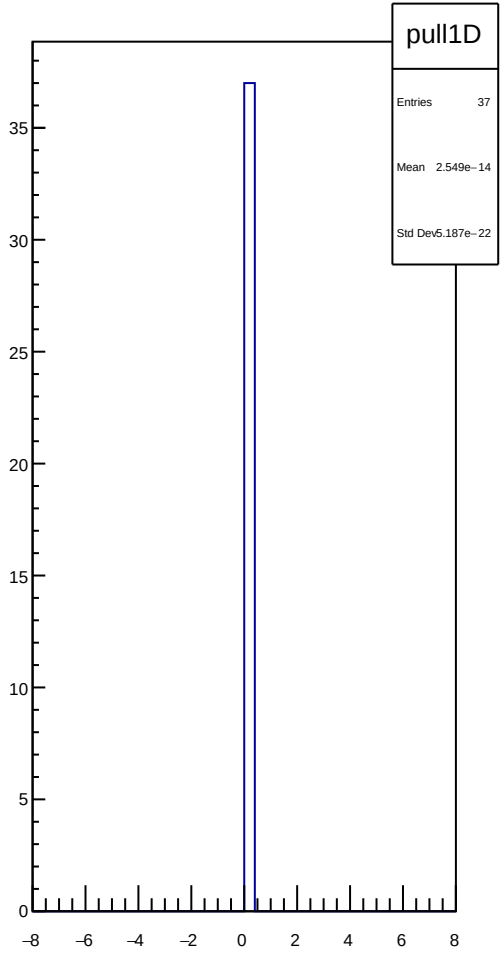

dit_sam5_4aX_slope vs run
χ² / ndf 5.049e−28 / 36
p0 1.203 ± 0.03953
1.4
1.3
1.2
1.1
1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 3.694e−15
Std Dev 5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

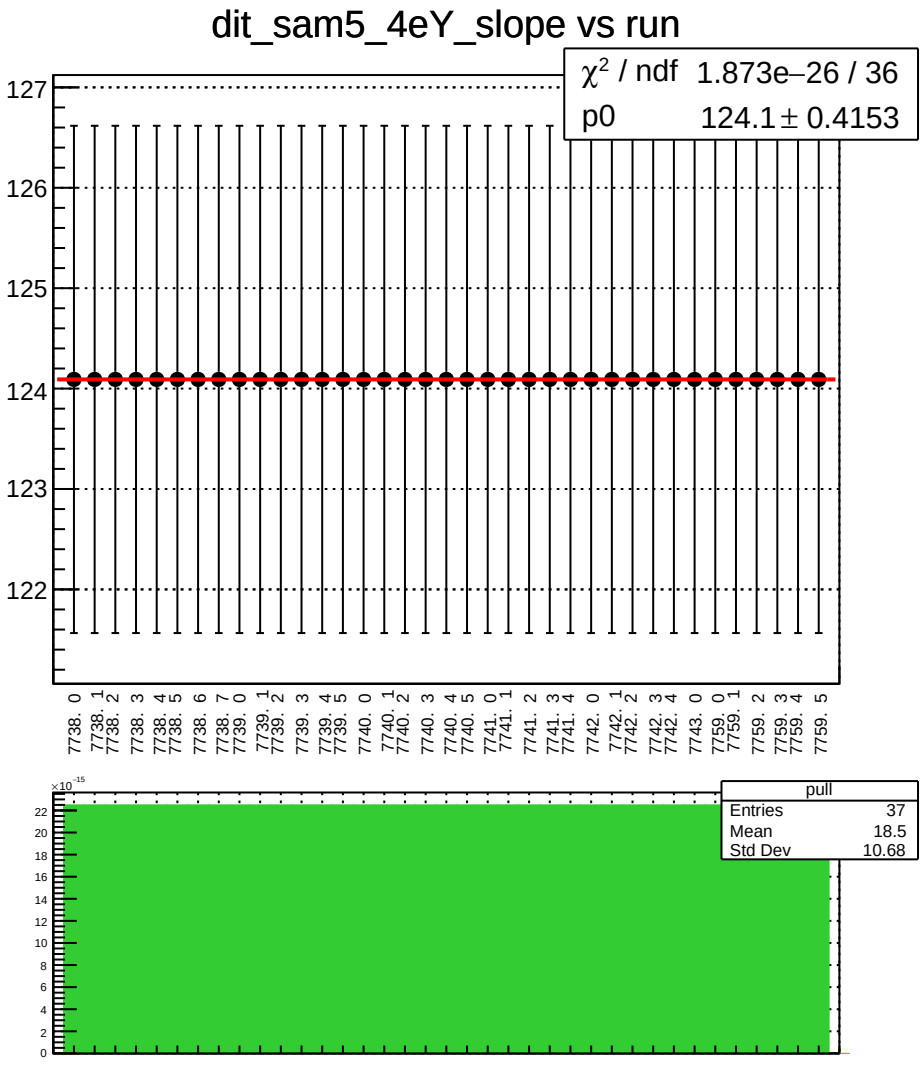

dit_sam5_4eX_slope vs run
χ² / ndf 0 / 36
p0 4.11 ± 0.09265
4.6
4.4
4.2
4
3.8
3.6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

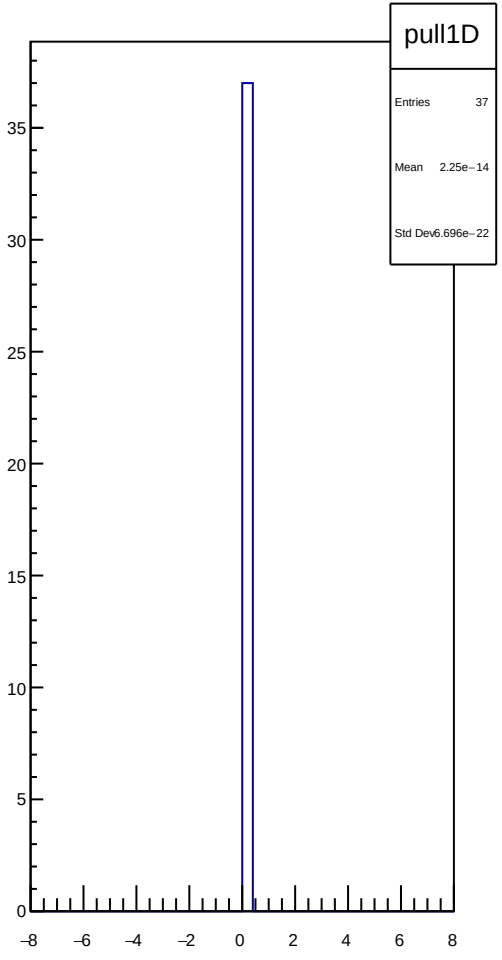

dit_sam5_11X12X_slope vs run
χ² / ndf 3.278e−29 / 36
p0 0.2921± 0.01939
0.4
0.35
0.3
0.25
0.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 37
Mean 18.5
Std Dev 10.68

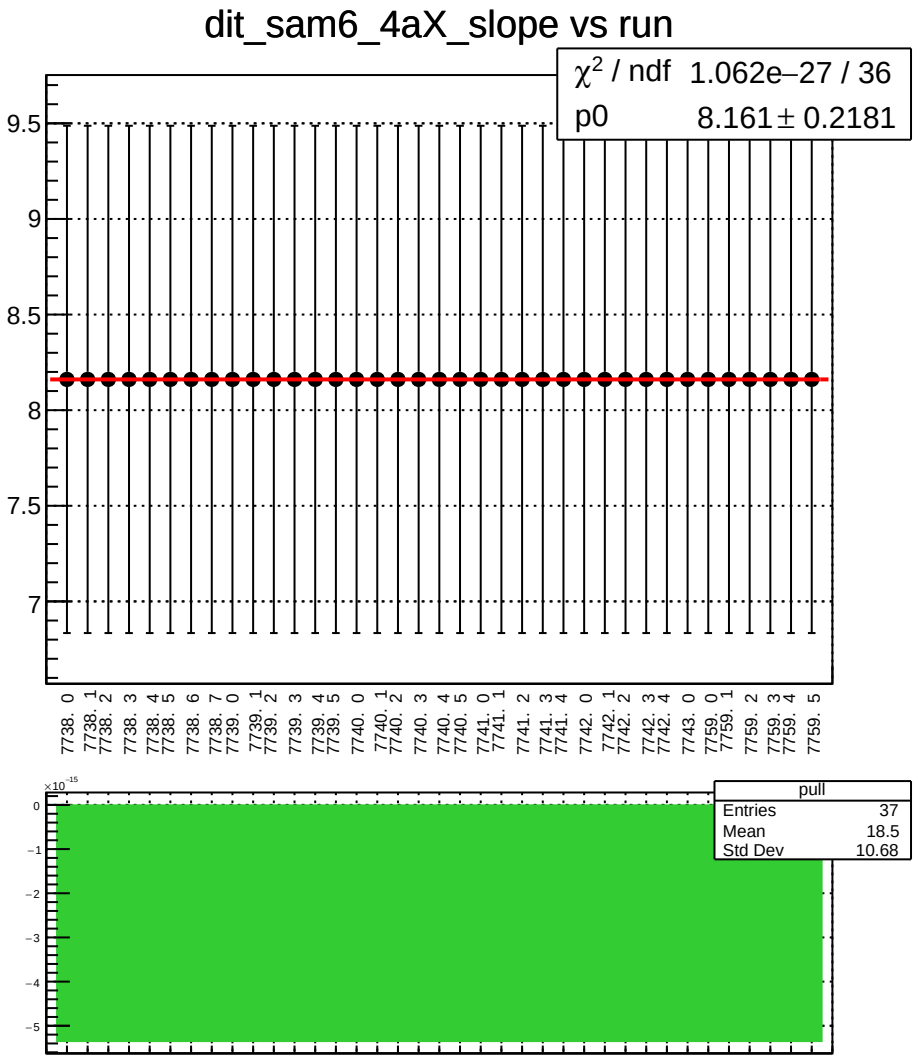

pull1D
Entries 37
Mean −9.413e−16
Std Dev1.872e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

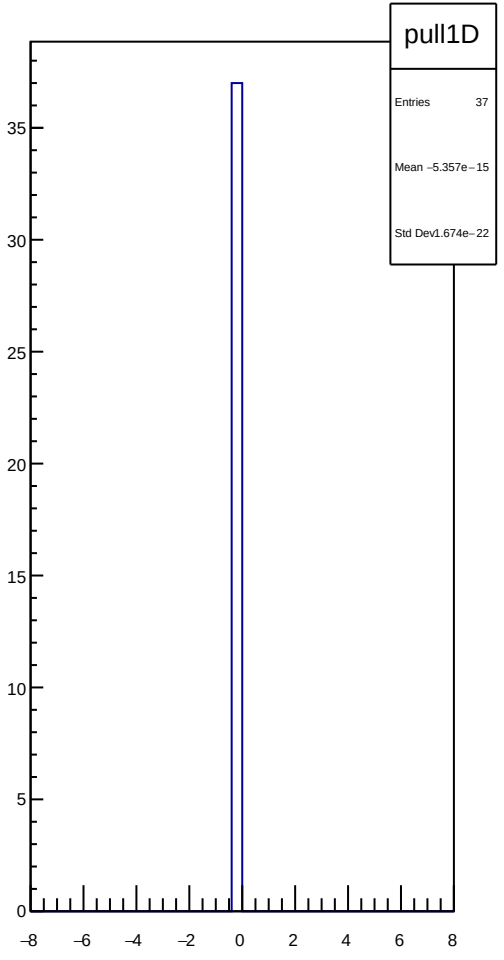

dit_sam5_4aY_slope vs run
χ² / ndf 2.403e−26 / 36
p0 31.4 ± 0.3896
34
33
32
31
30
29
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
25
20
15
10
5
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

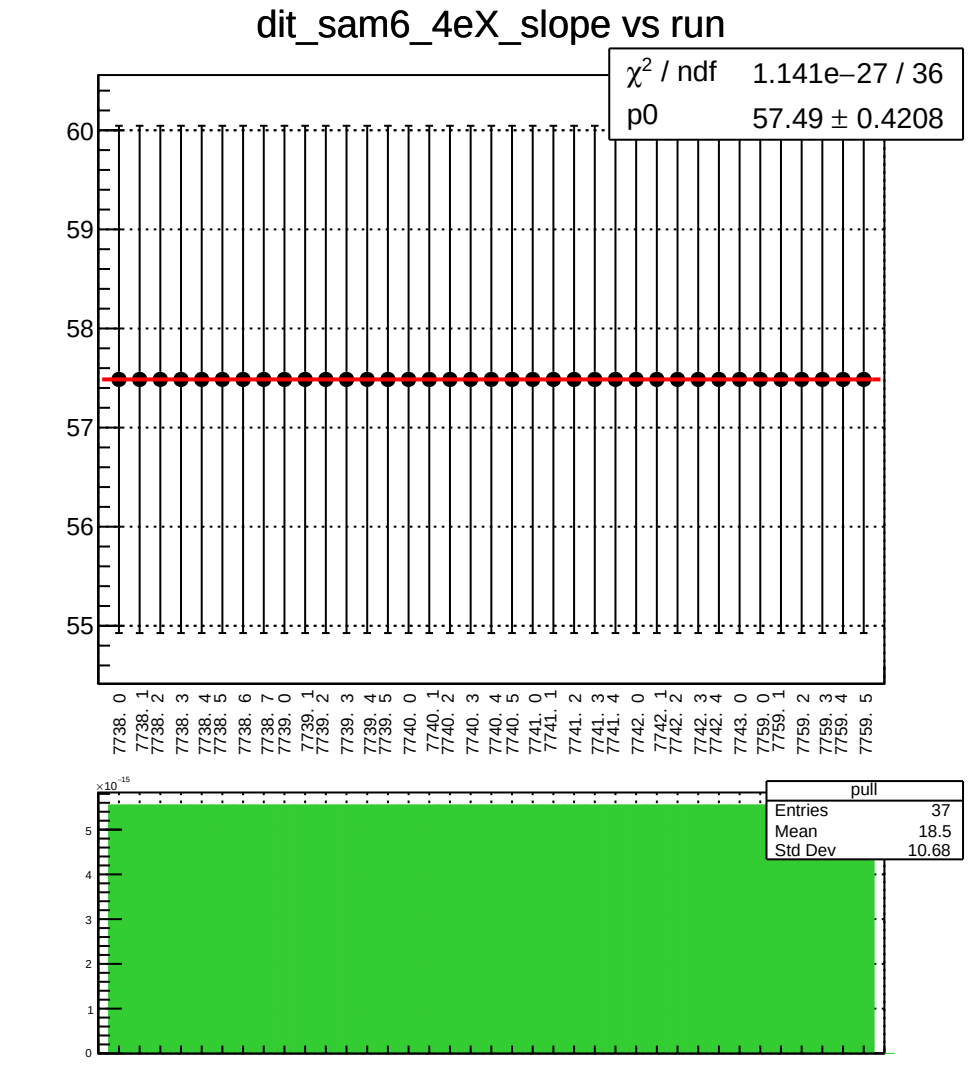

pull1D
Entries 37
Mean 2.549e−14
Std Dev 5.187e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

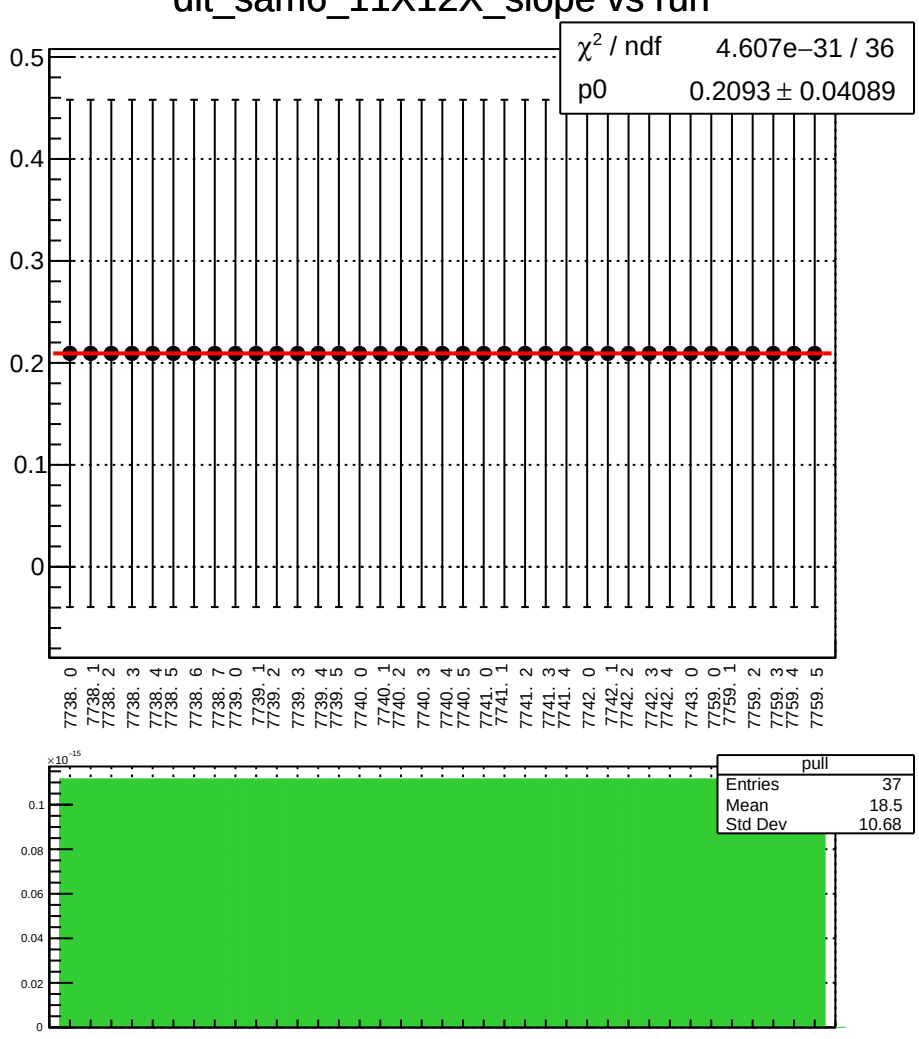

dit_sam5_4eY_slope vs run
χ² / ndf 1.873e−26 / 36
p0 124.1 ± 0.4153
127
126
125
124
123
122
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

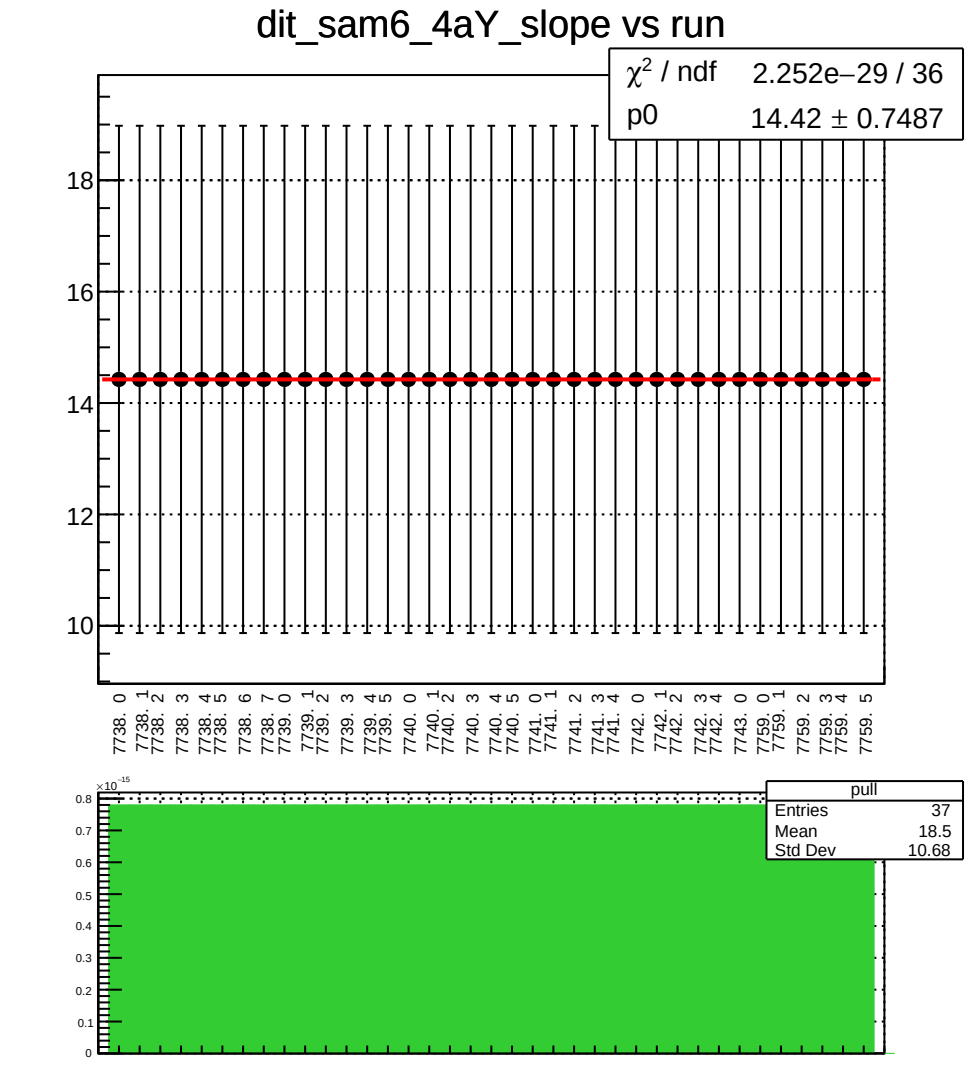

pull1D
Entries 37
Mean 2.25e−14
Std Dev 6.696e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

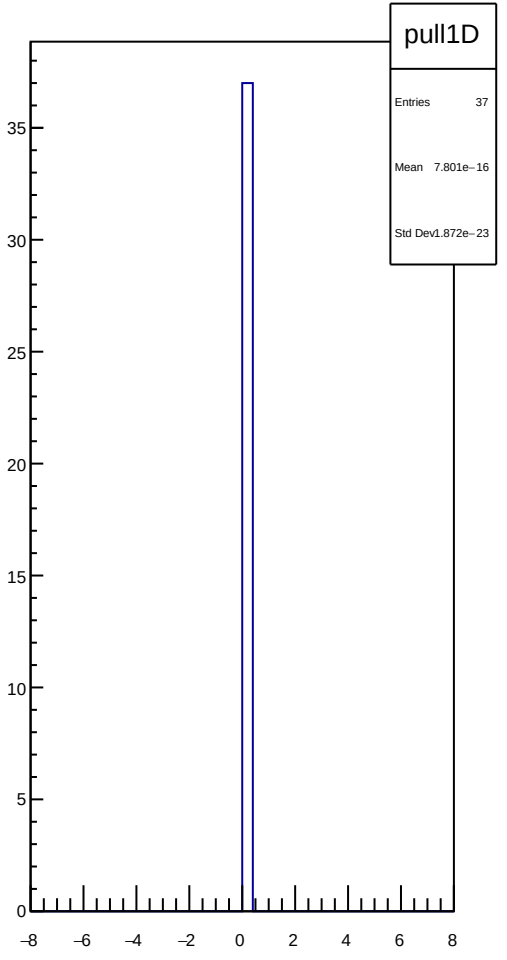

dit_sam6_4aX_slope vs run
χ² / ndf 1.062e−27 / 36
p0 8.161 ± 0.2181
9.5
9
8.5
8
7.5
7
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−1
−2
−3
−4
−5
pull
Entries 37
Mean 18.5
Std Dev 10.68

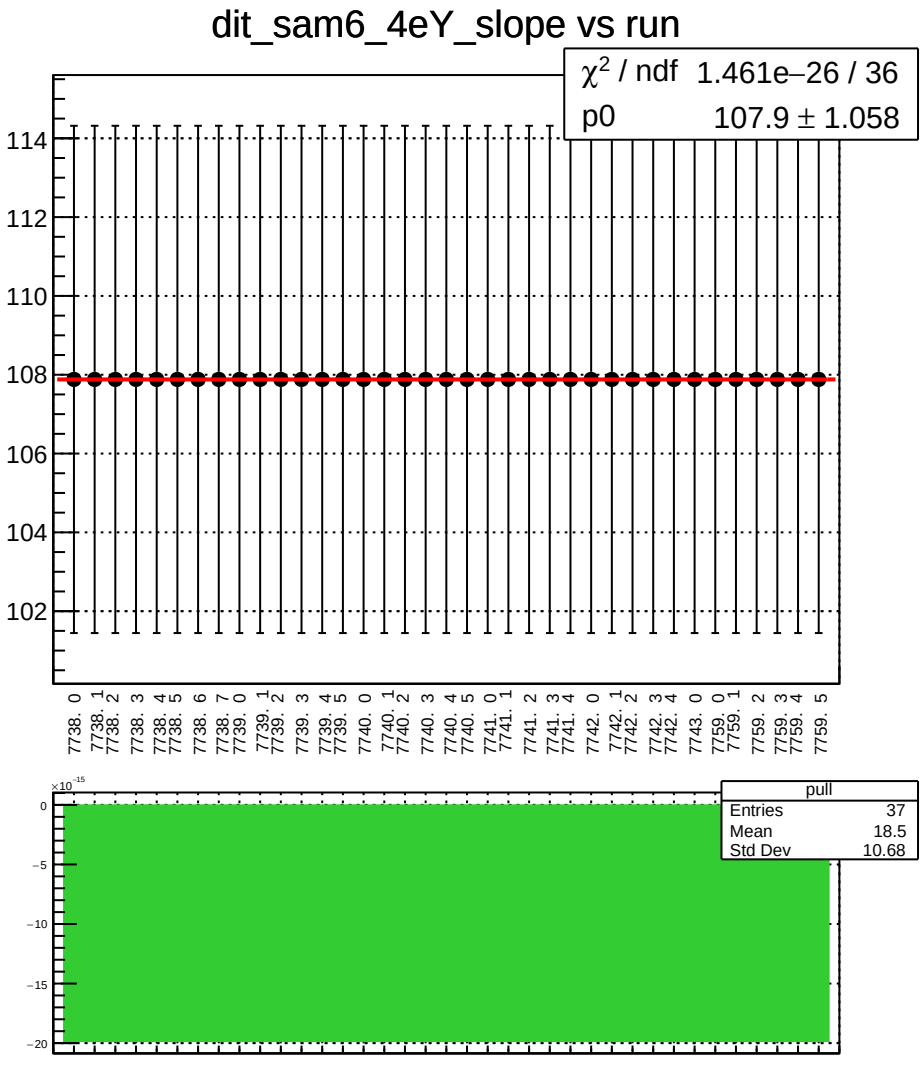

pull1D
Entries 37
Mean −5.357e−15
Std Dev1.674e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

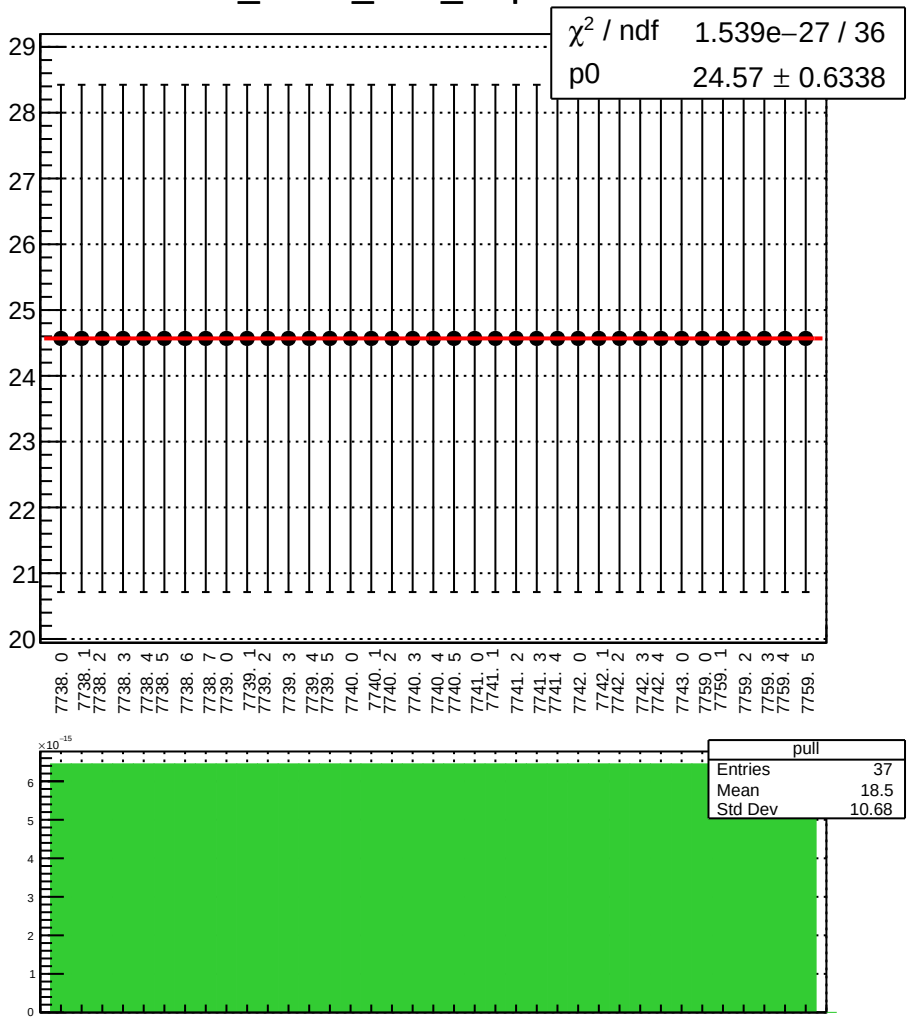

dit_sam6_4eX_slope vs run
χ² / ndf 1.141e−27 / 36
p0 57.49 ± 0.4208
60
59
58
57
56
55
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 5.553e−15
Std Dev 2.368e−22

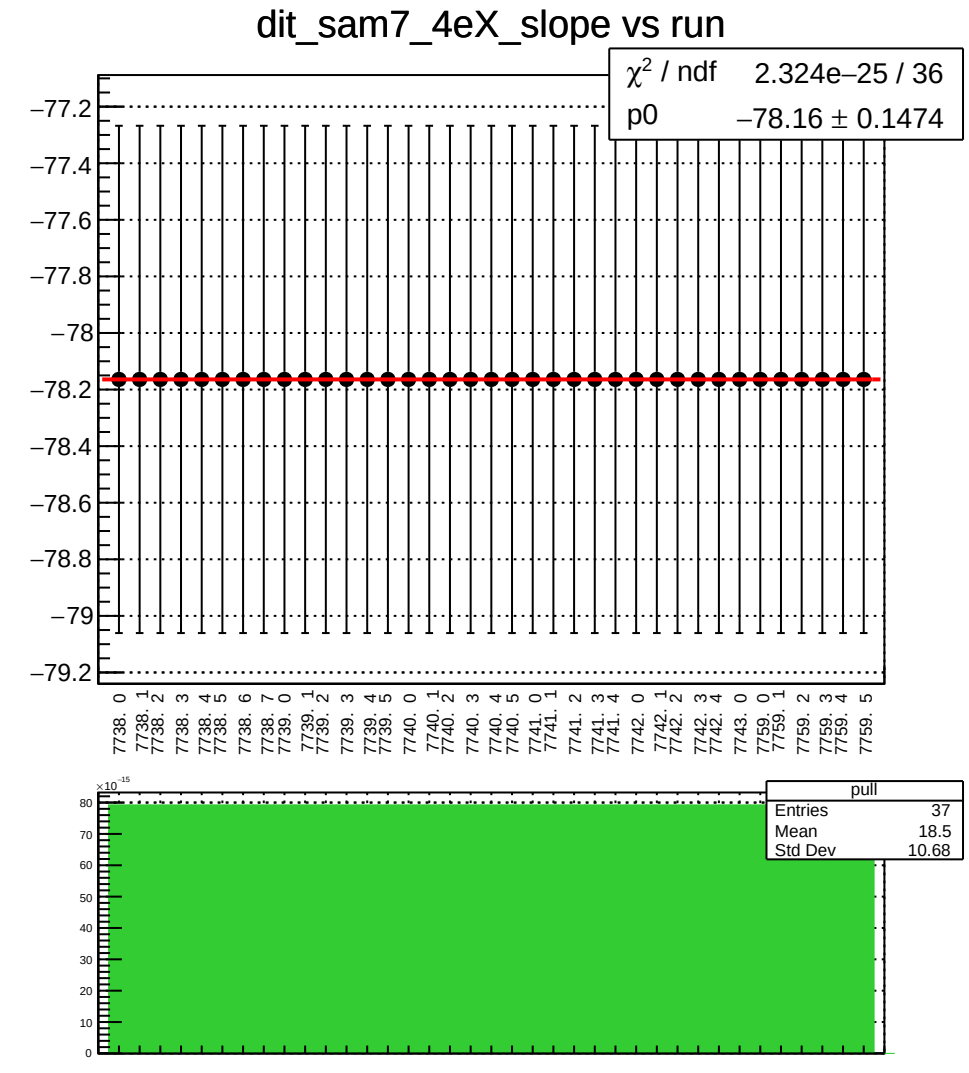

dit_sam6_11X12X_slope vs run
χ² / ndf 4.607e−31 / 36
p0 0.2093 ± 0.04089
0.5
0.4
0.3
0.2
0.1
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.1
0.08
0.06
0.04
0.02
0
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 1.116e−16
Std Dev 2.34e−24
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

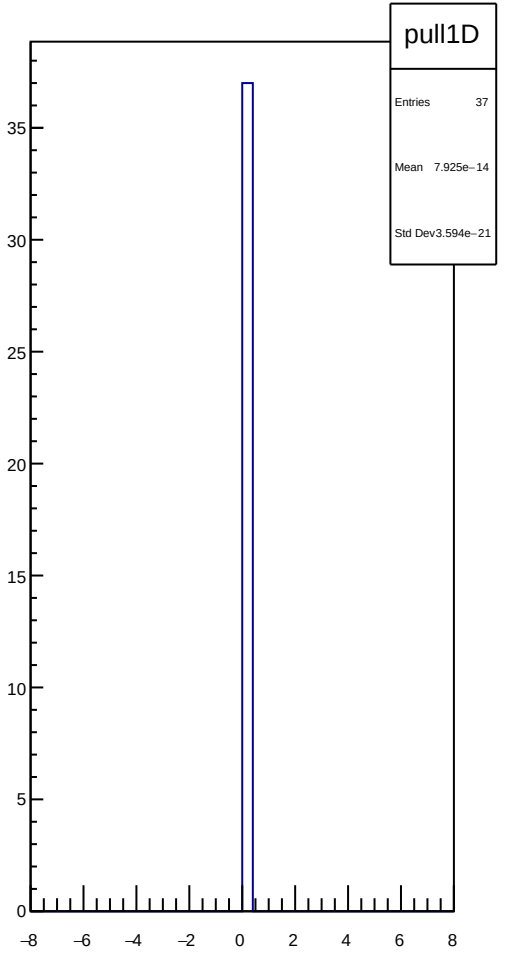

dit_sam6_4aY_slope vs run
χ² / ndf 2.252e−29 / 36
p0 14.42 ± 0.7487
18
16
14
12
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

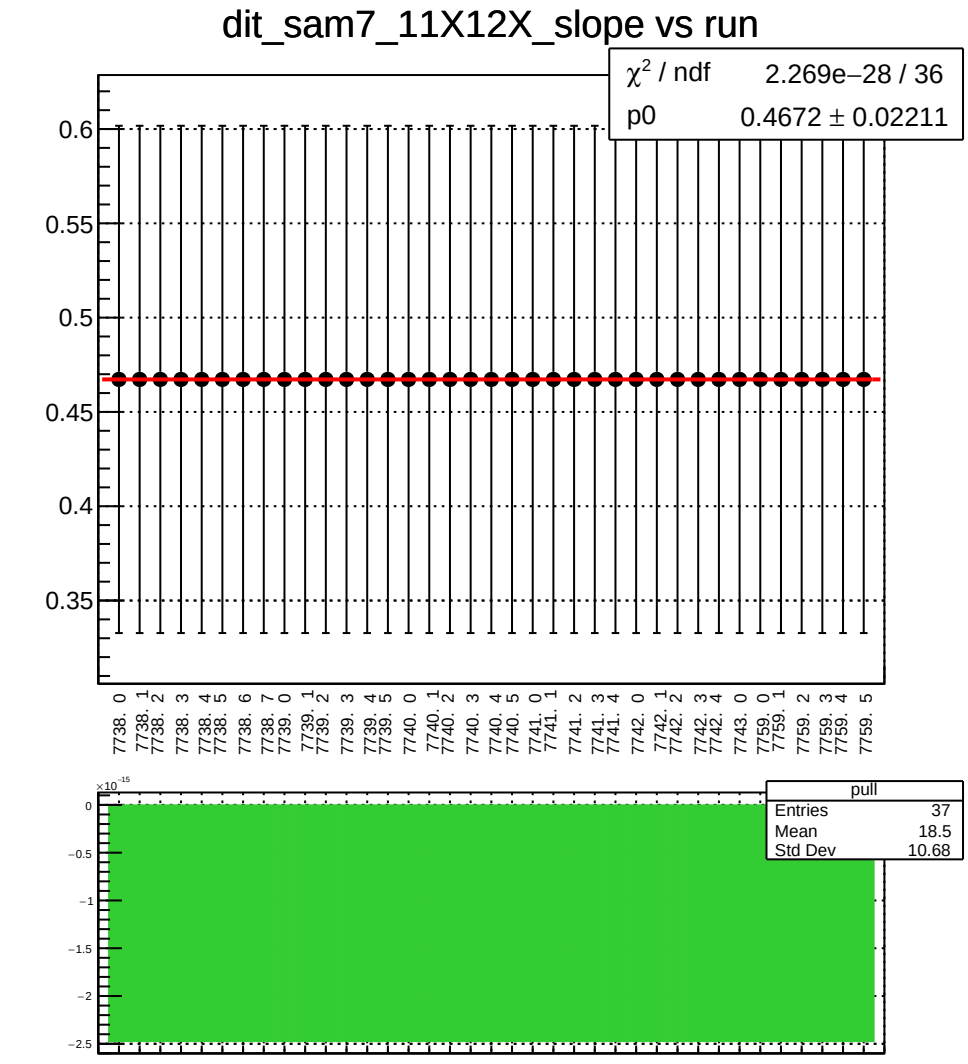

pull1D
Entries 37
Mean 7.801e−16
Std Dev1.872e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

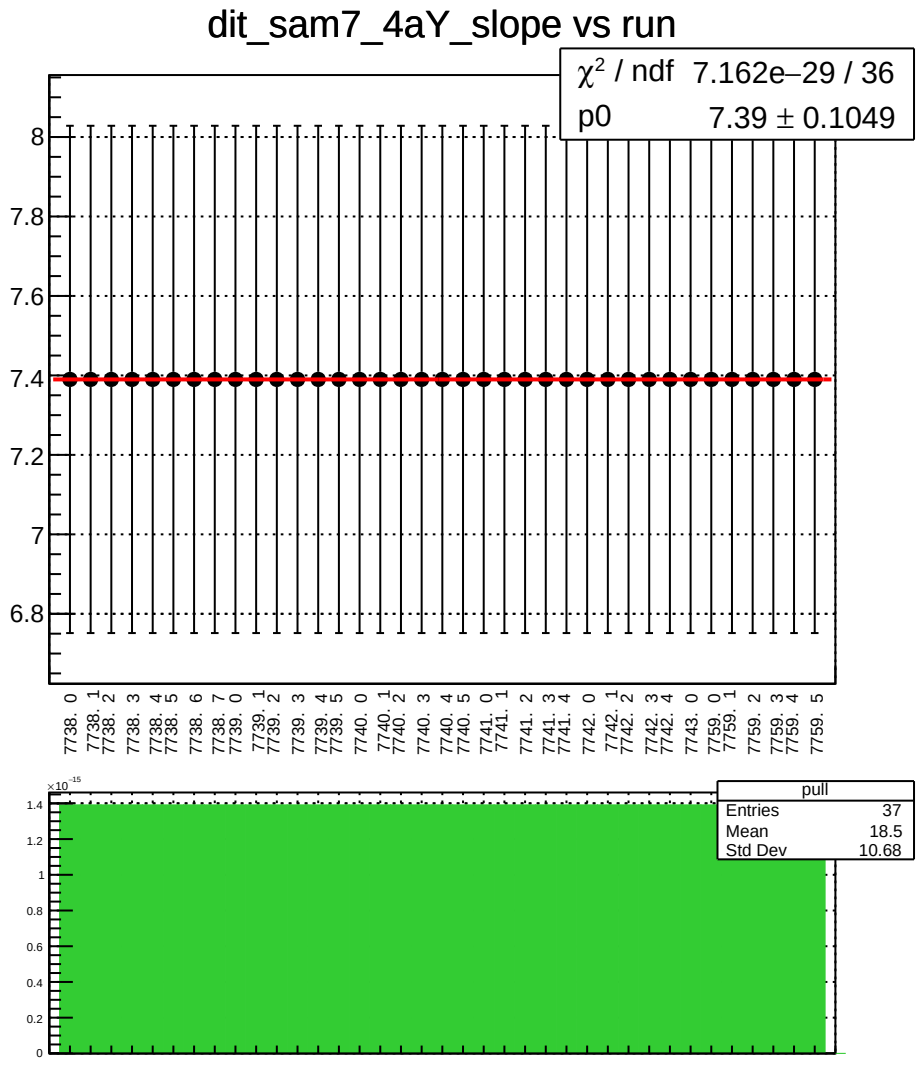

dit_sam6_4eY_slope vs run
χ² / ndf 1.461e−26 / 36
p0 107.9 ± 1.058
114
112
110
108
106
104
102
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−5
−10
−15
−20
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −1.987e−14
Std Dev5.989e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

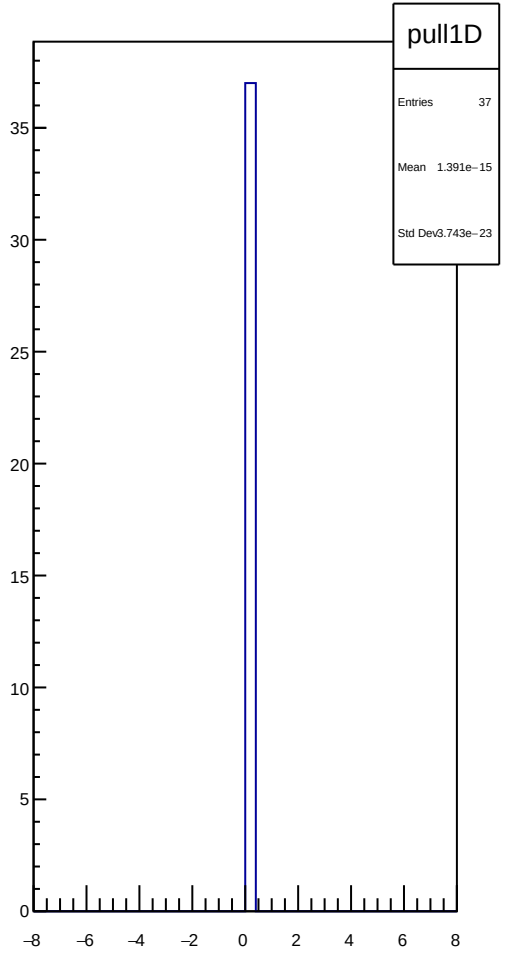

dit_sam7_4aX_slope vs run
χ² / ndf 1.539e−27 / 36
p0 24.57 ± 0.6338
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 6.45e−15
Std Dev1.981e−22

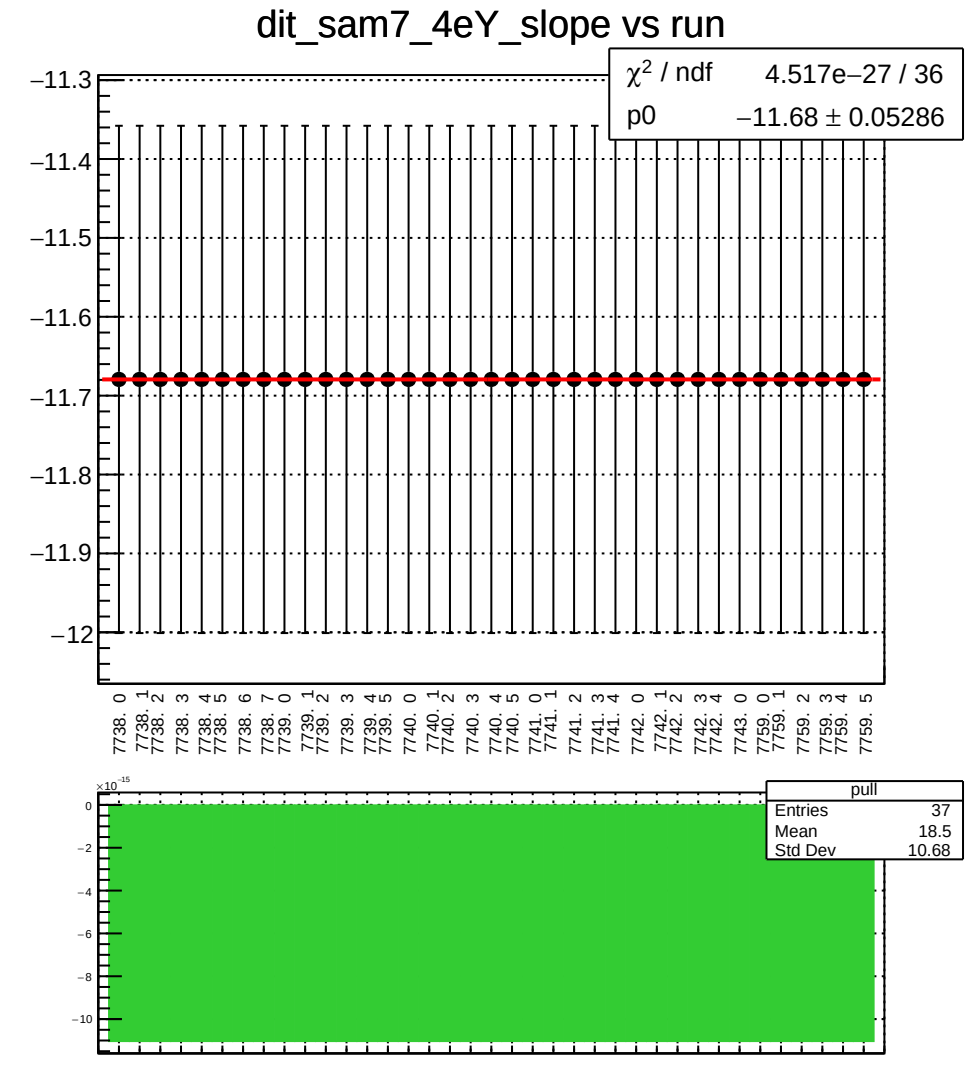

dit_sam7_4eX_slope vs run
χ² / ndf 2.324e−25 / 36
p0 −78.16 ± 0.1474
−77.2
−77.4
−77.6
−77.8
−78
−78.2
−78.4
−78.6
−78.8
−79
−79.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
80
70
60
50
40
30
20
10
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

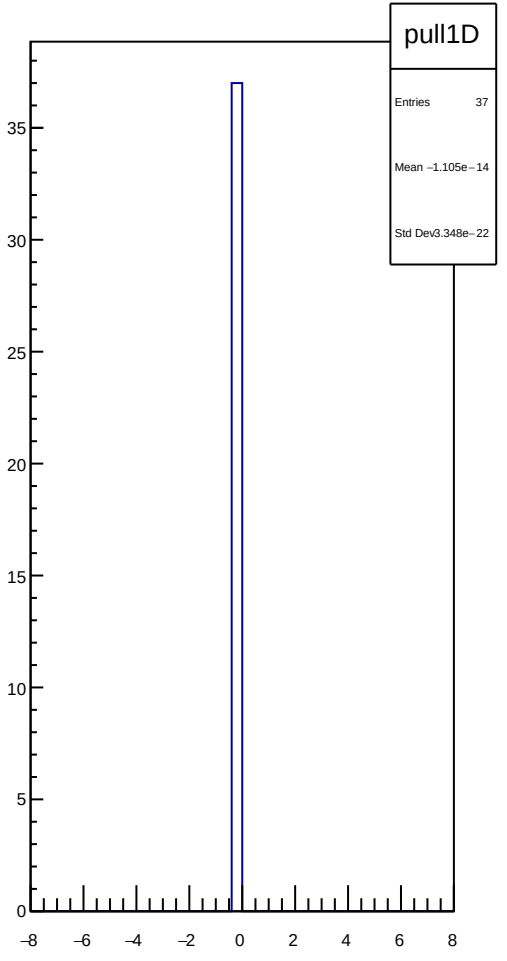

pull1D
Entries 37
Mean 7.925e−14
Std Dev3.594e−21
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

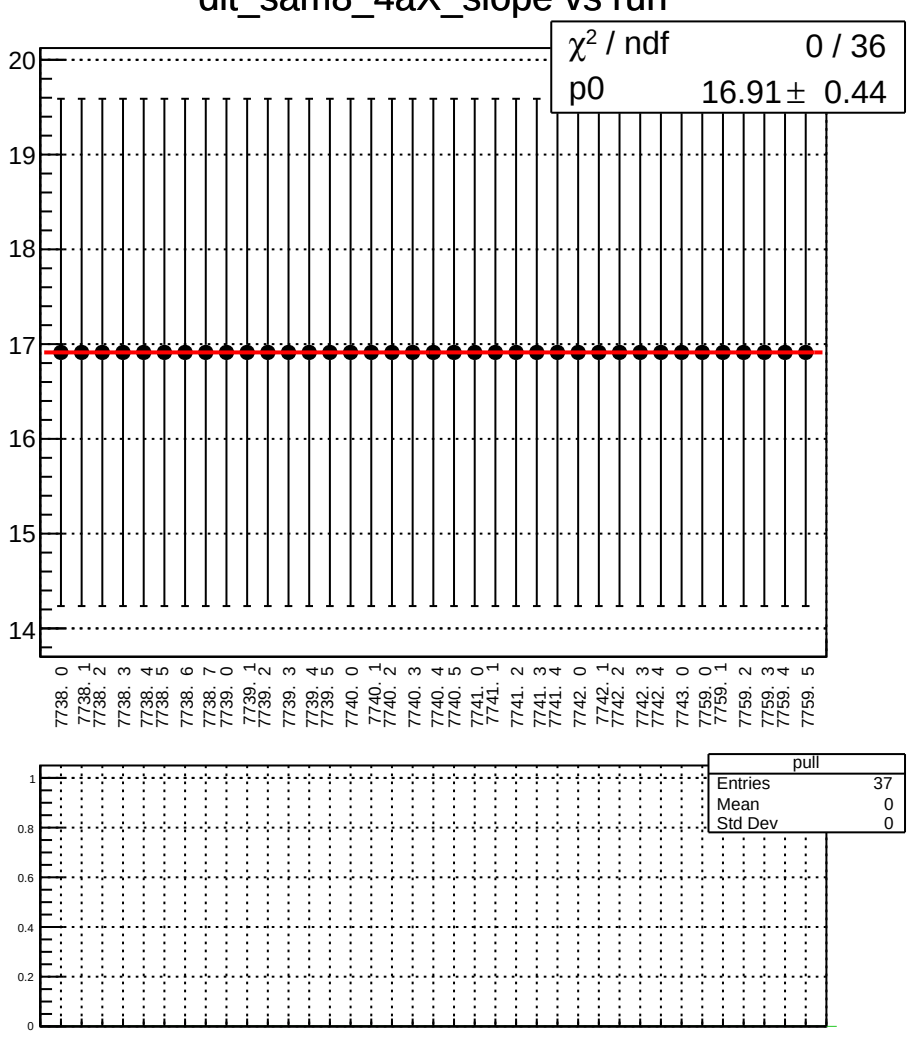

dit_sam7_11X12X_slope vs run
χ² / ndf 2.269e−28 / 36
p0 0.4672 ± 0.02211
0.6
0.55
0.5
0.45
0.4
0.35
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −2.477e−15
Std Dev5.294e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

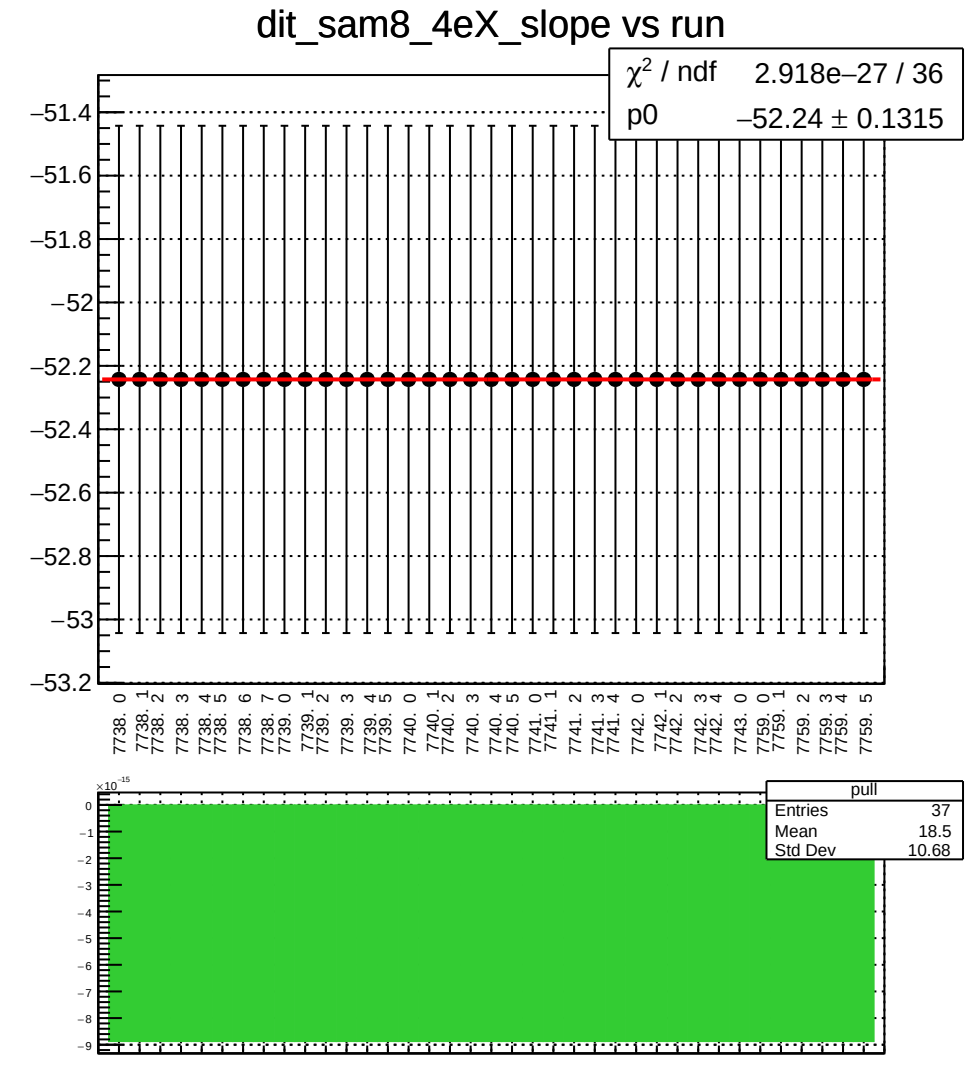

dit_sam7_4aY_slope vs run
χ² / ndf 7.162e−29 / 36
p0 7.39 ± 0.1049
8
7.8
7.6
7.4
7.2
7
6.8
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

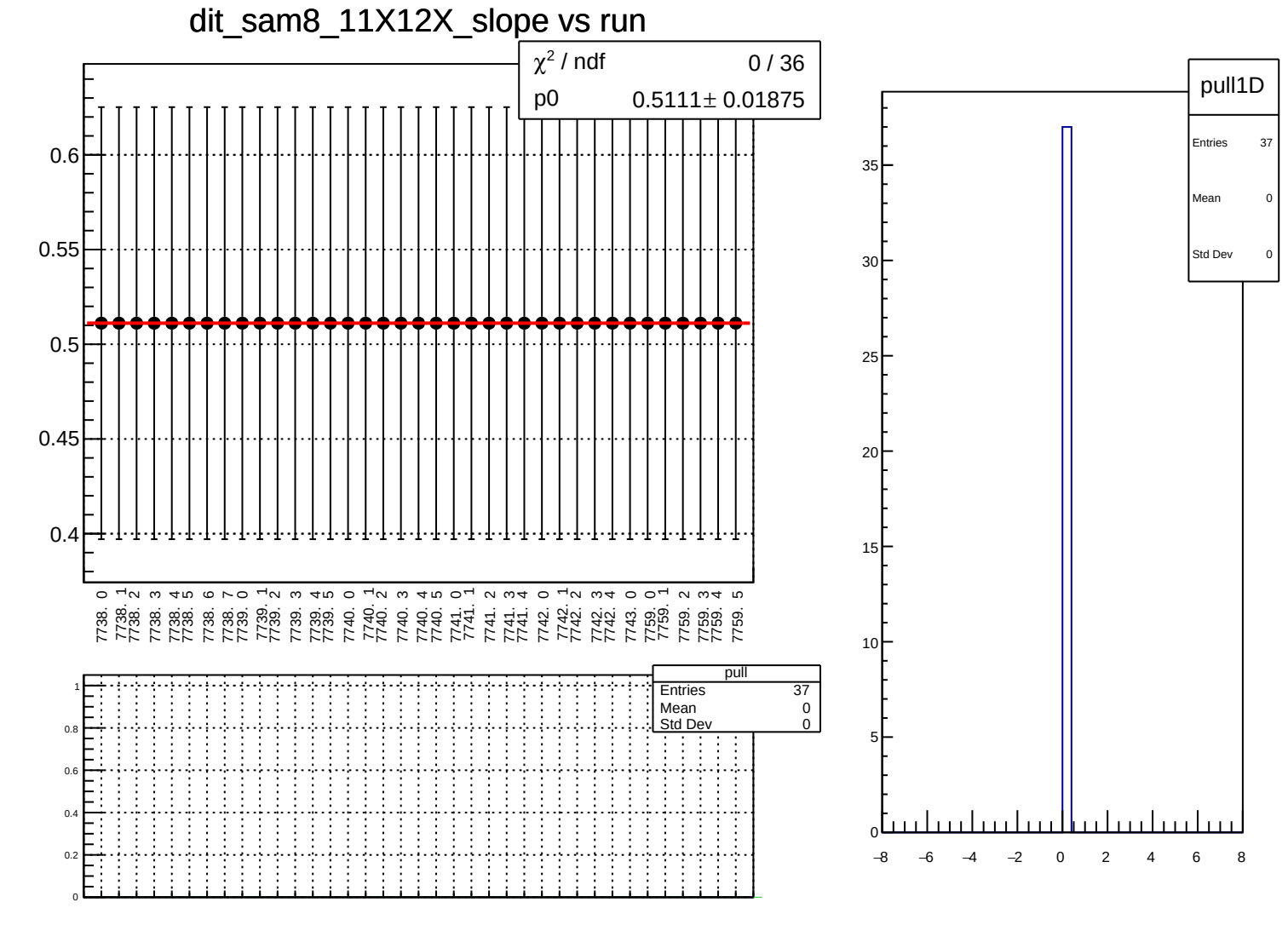

pull1D
Entries 37
Mean 1.391e−15
Std Dev3.743e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

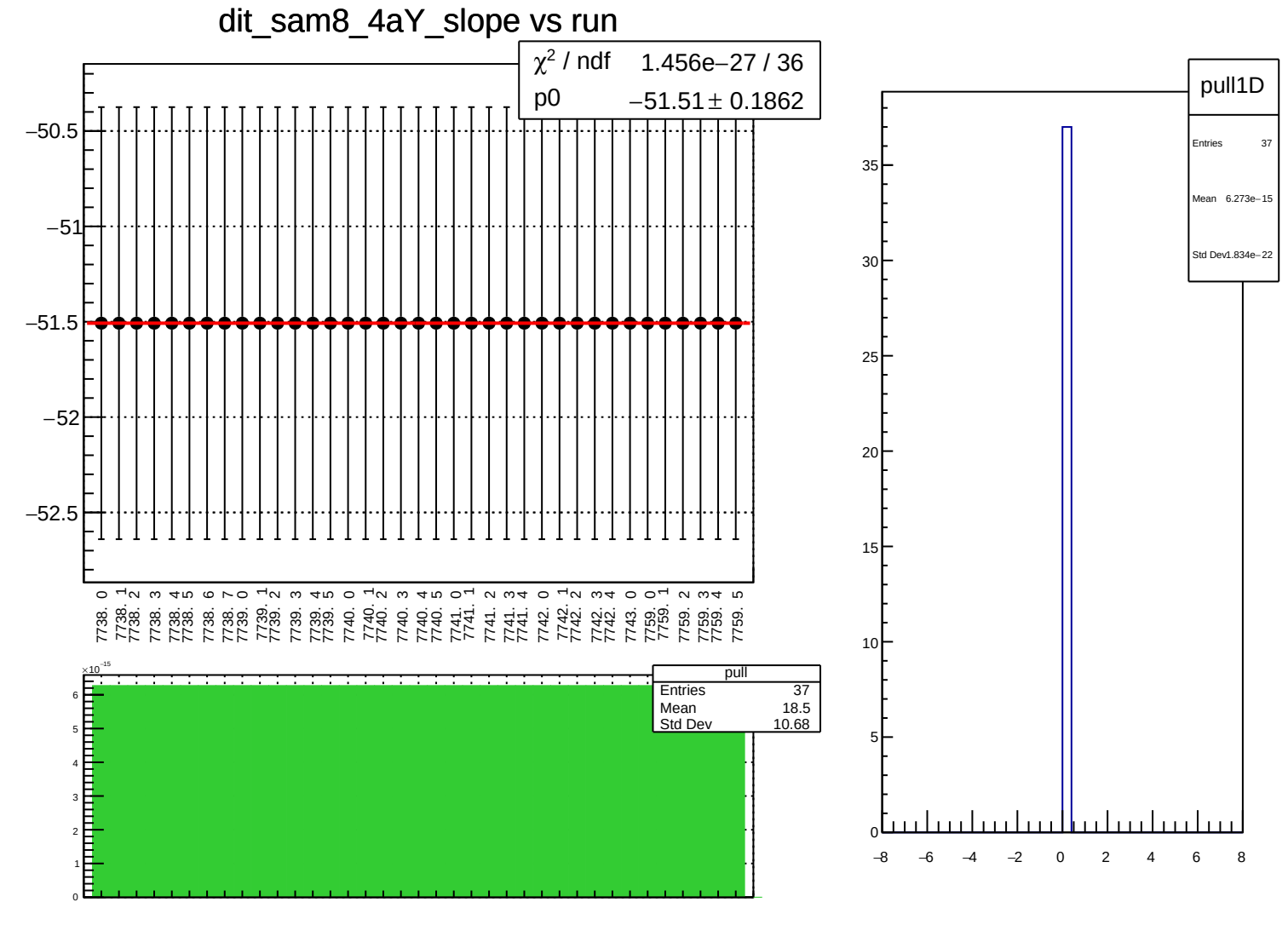

dit_sam7_4eY_slope vs run
χ² / ndf 4.517e−27 / 36
p0 −11.68 ± 0.05286
−11.3
−11.4
−11.5
−11.6
−11.7
−11.8
−11.9
−12
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−2
−4
−6
−8
−10
pull
Entries 37
Mean 18.5
Std Dev 10.68

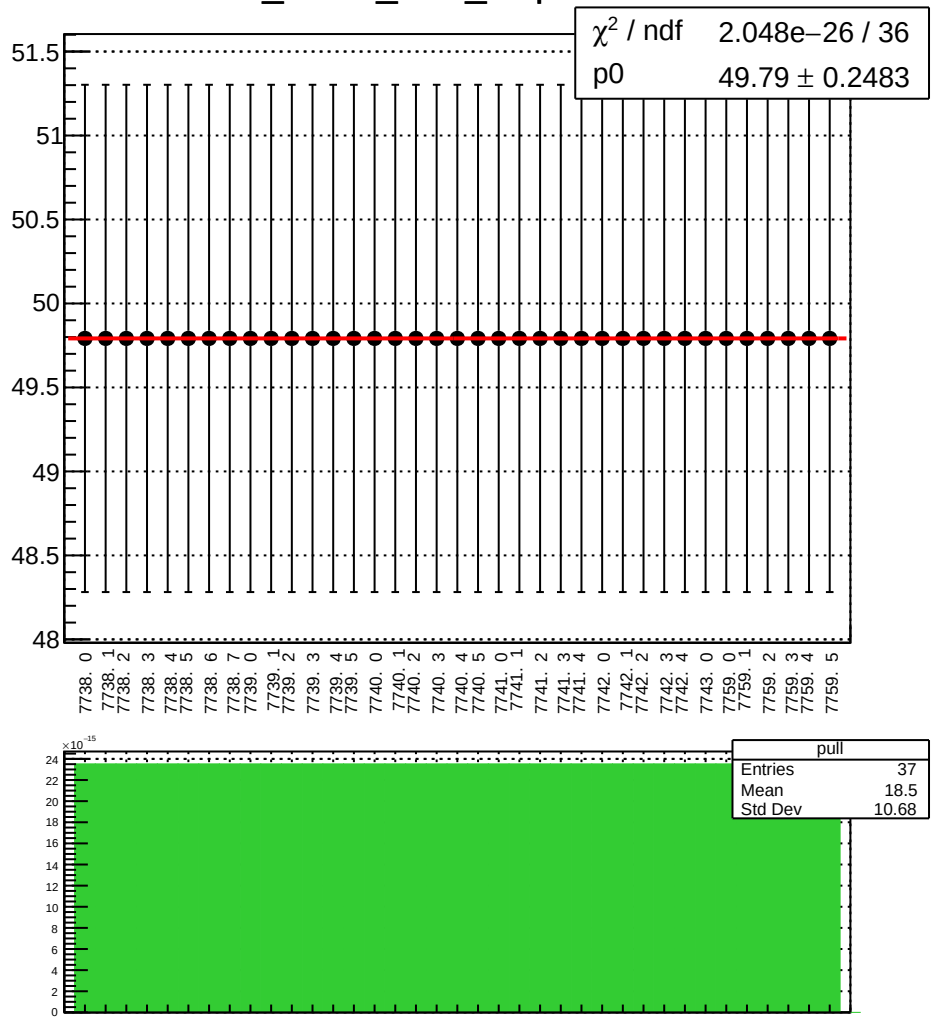

pull1D
Entries 37
Mean −1.105e−14
Std Dev3.348e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

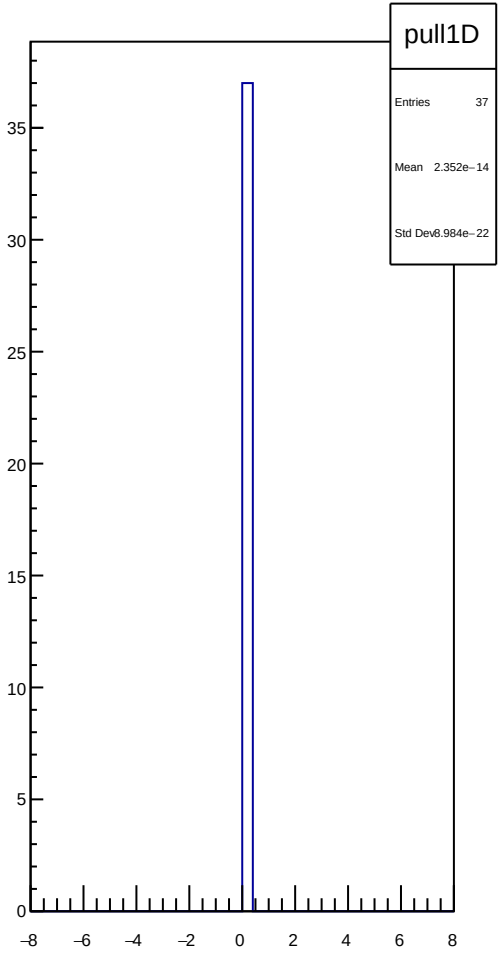

dit_sam8_4aX_slope vs run
χ² / ndf 0 / 36
p0 16.91 ± 0.44
20
19
18
17
16
15
14
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

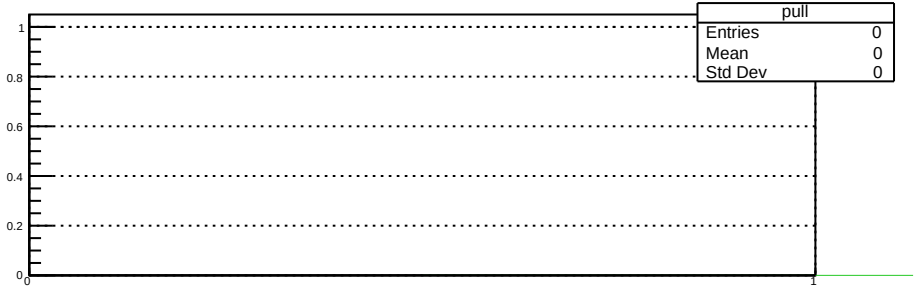

dit_sam8_4eX_slope vs run
χ² / ndf 2.918e–27 / 36
p0 –52.24 ± 0.1315
–51.4
–51.6
–51.8
–52
–52.2
–52.4
–52.6
–52.8
–53
–53.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean –8.881e–15
Std Dev3.348e–22

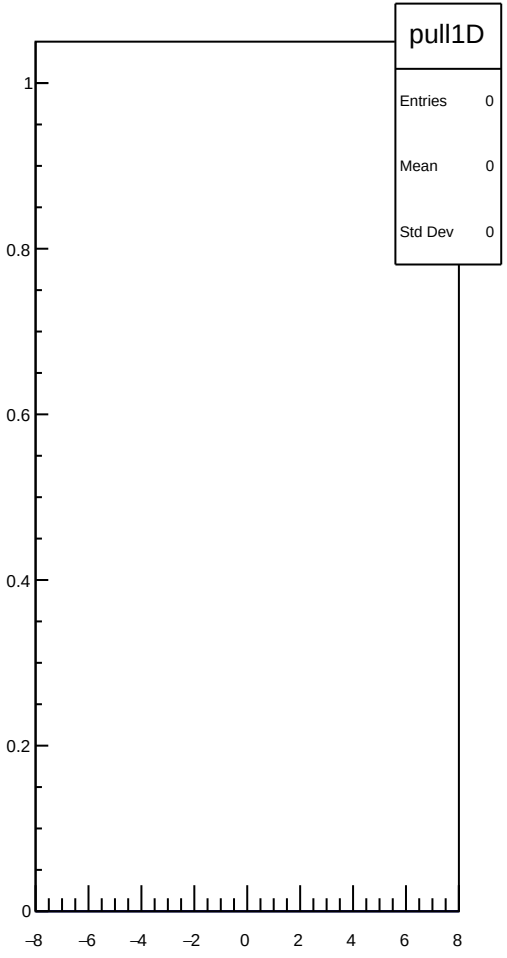

dit_sam8_11X12X_slope vs run
χ² / ndf 0 / 36
p0 0.5111± 0.01875
0.6
0.55
0.5
0.45
0.4
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 37
Mean 0
Std Dev 0
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

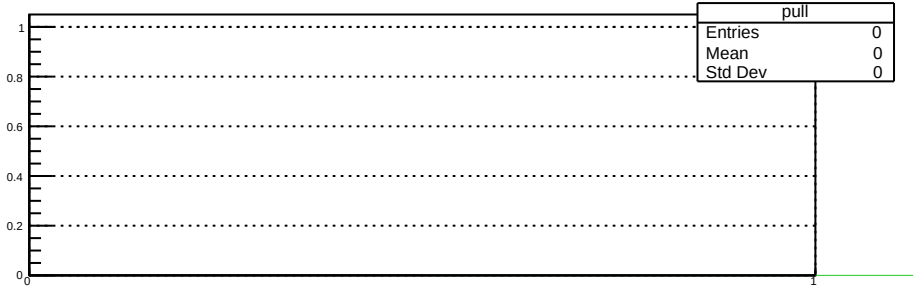

dit_sam8_4aY_slope vs run
χ² / ndf 1.456e−27 / 36
p0 −51.51 ± 0.1862
−50.5
−51
−51.5
−52
−52.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean 6.273e−15
Std Dev1.834e−22

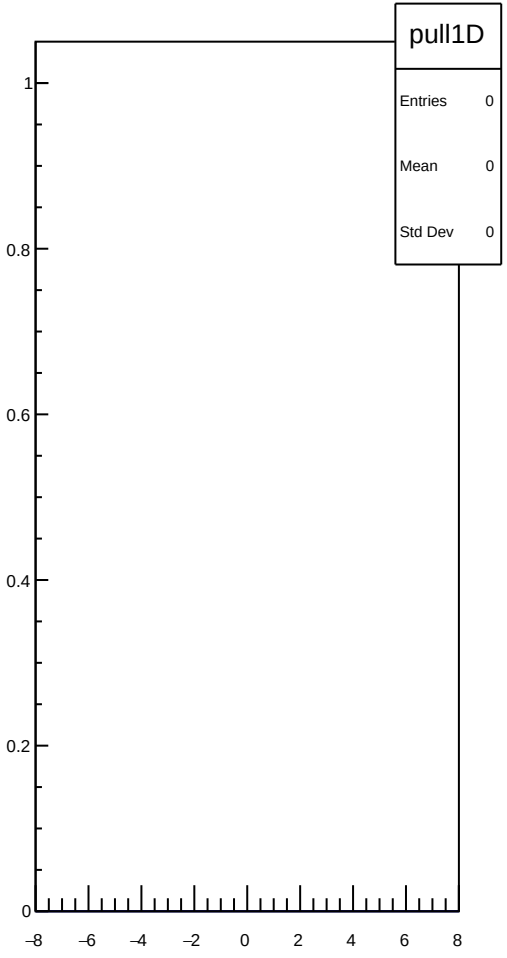

dit_sam8_4eY_slope vs run
χ² / ndf 2.048e−26 / 36
p0 49.79 ± 0.2483
51.5
51
50.5
50
49.5
49
48.5
48
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
24
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 37
Mean 18.5
Std Dev 10.68

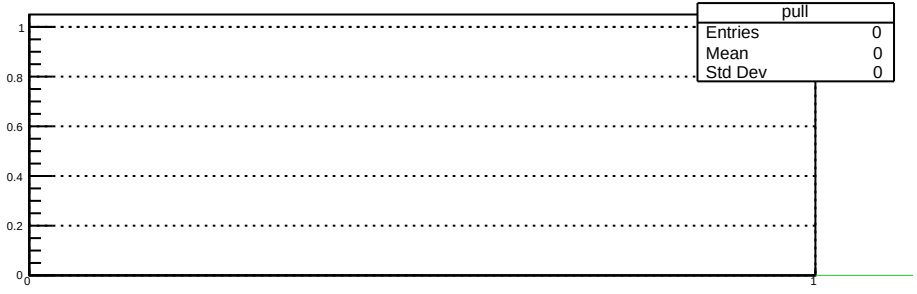

pull1D
Entries 37
Mean 2.352e−14
Std Dev 8.984e−22
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

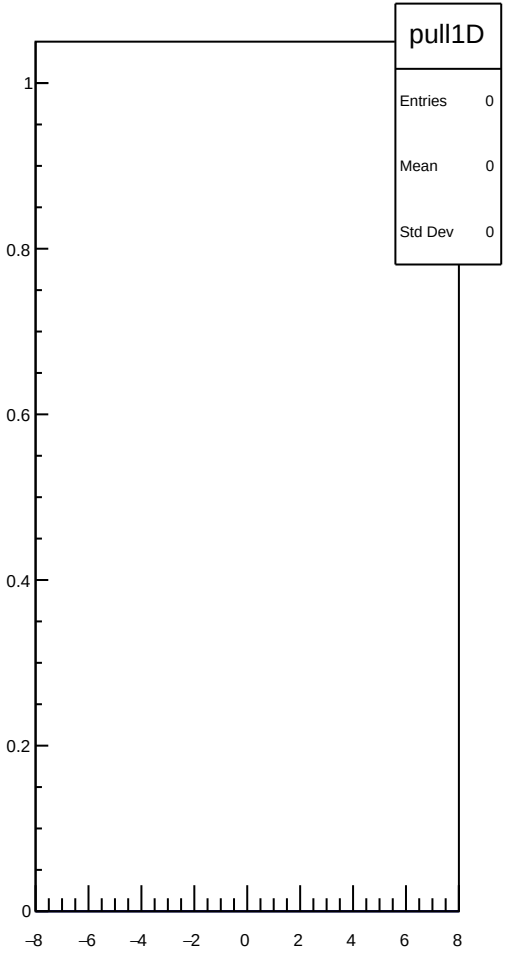

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

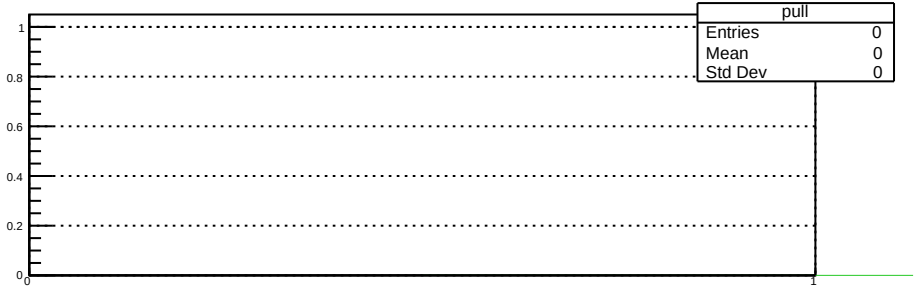

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

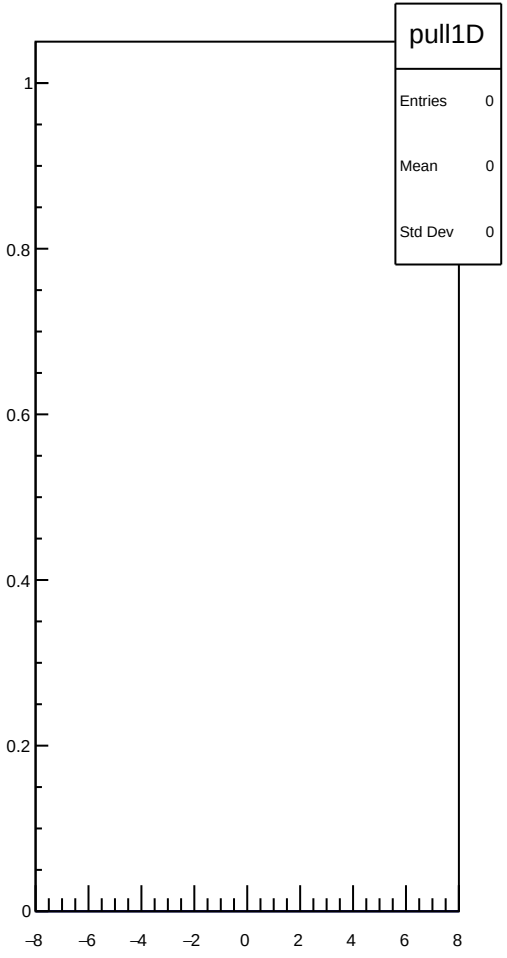

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

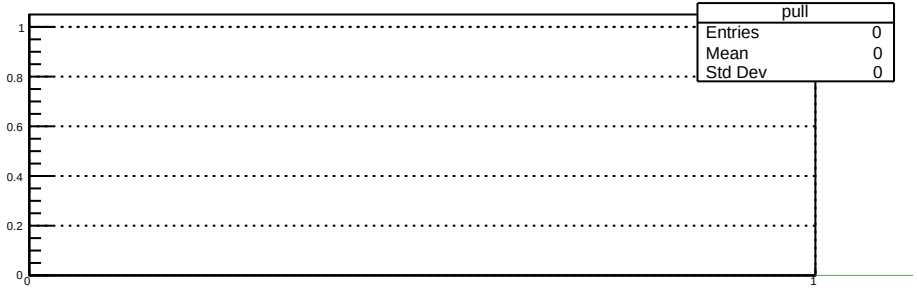

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

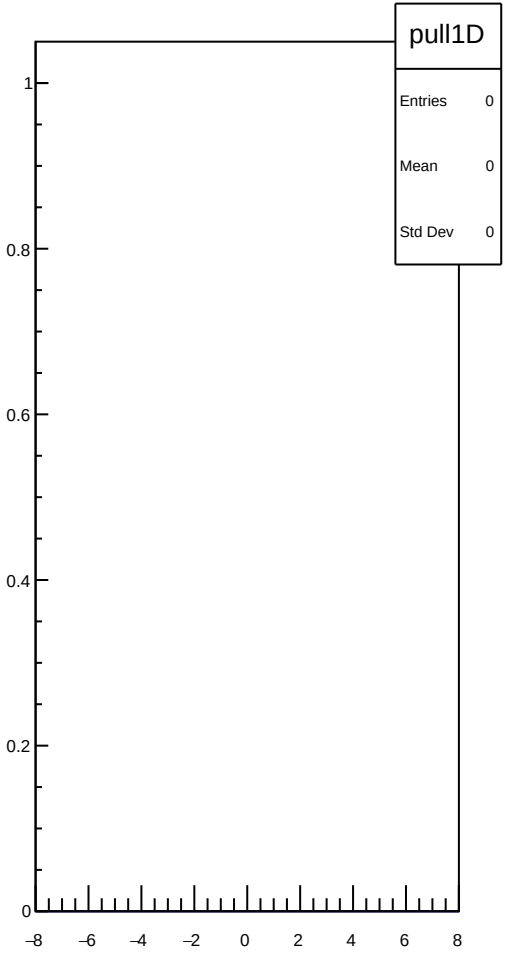

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

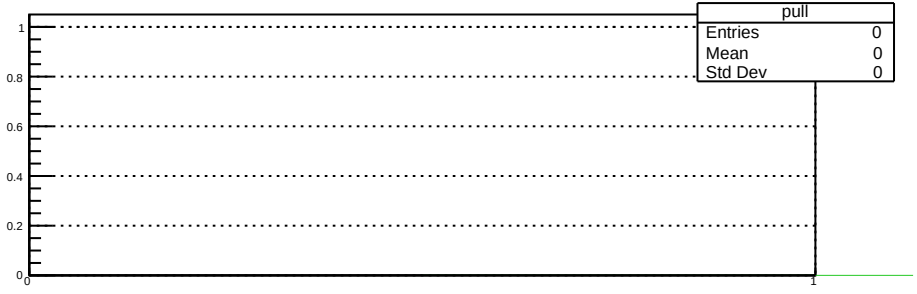

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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


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


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


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


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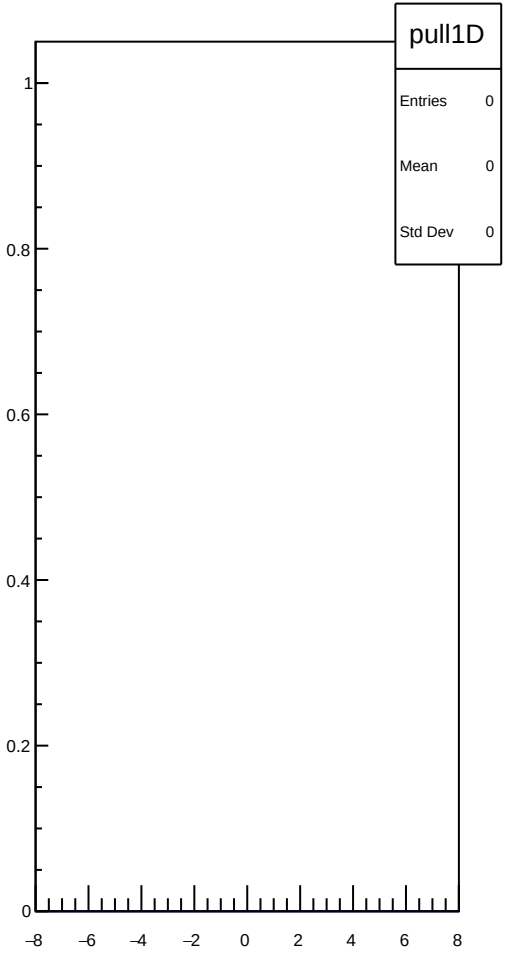
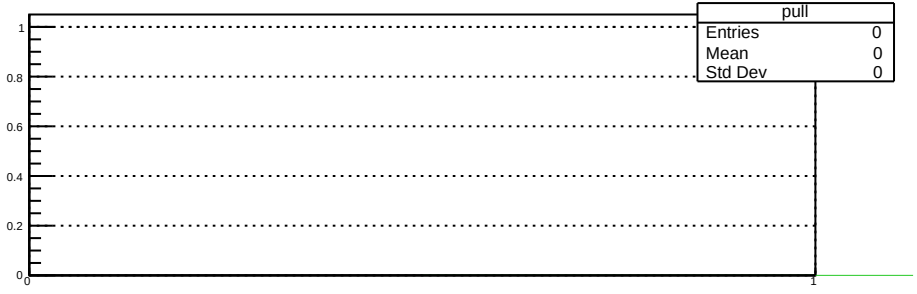
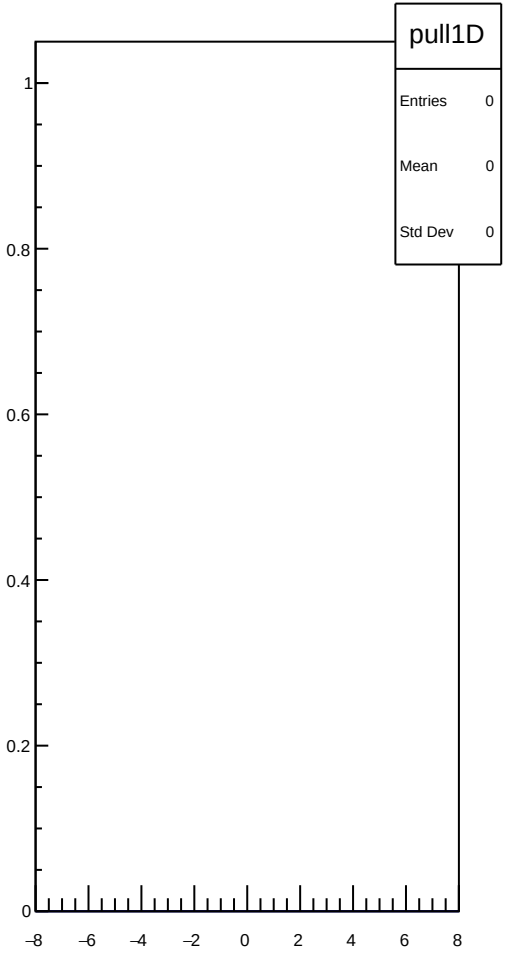
0.6
0.4
0.2
0
0
1


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


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
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
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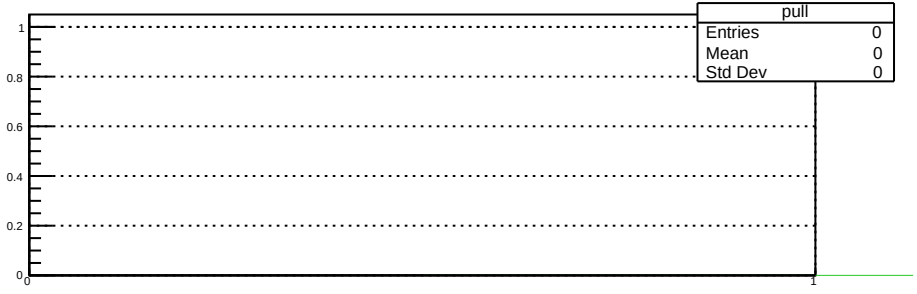
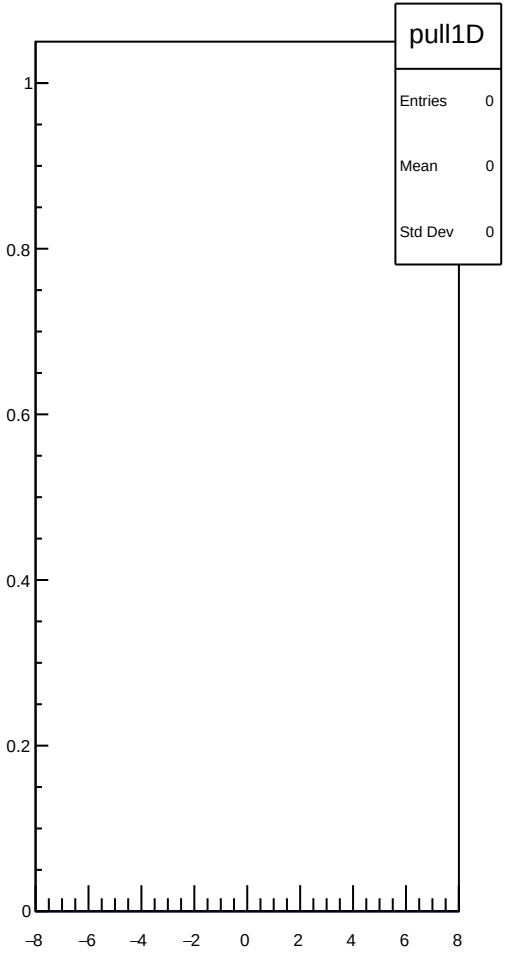
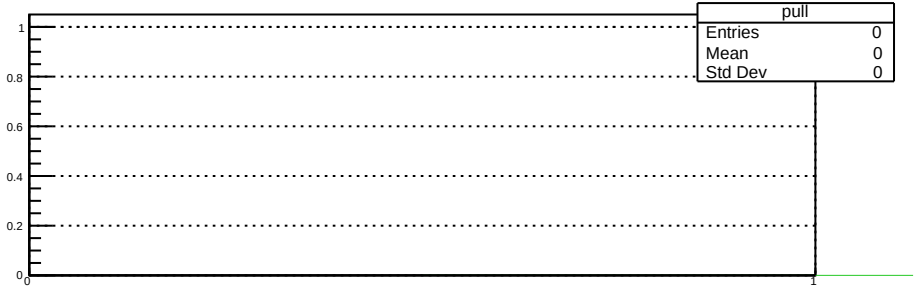
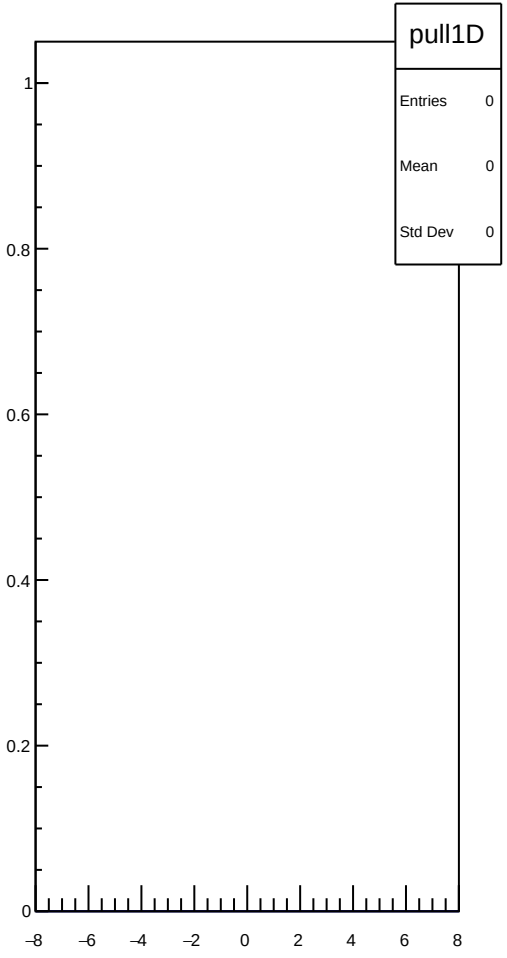
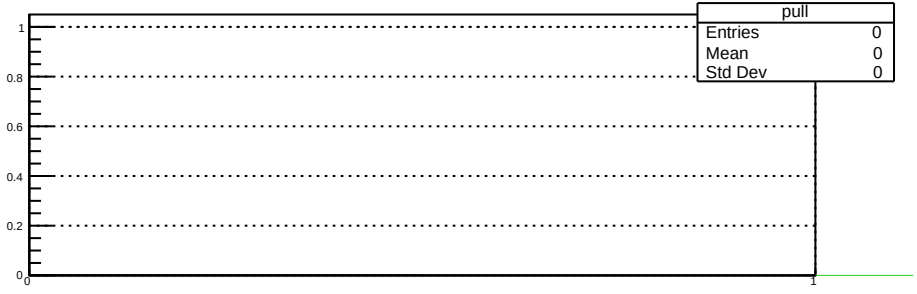
2
4
6
8

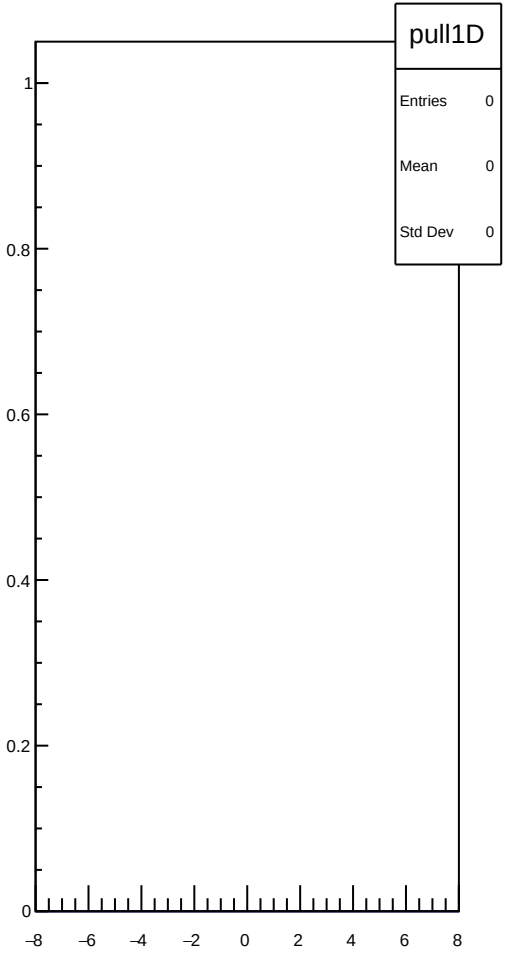

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

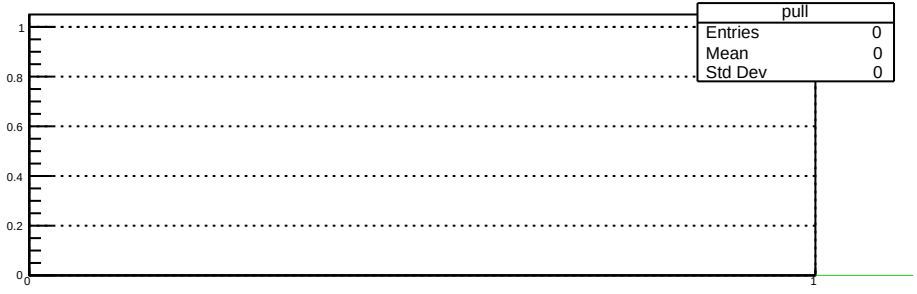

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

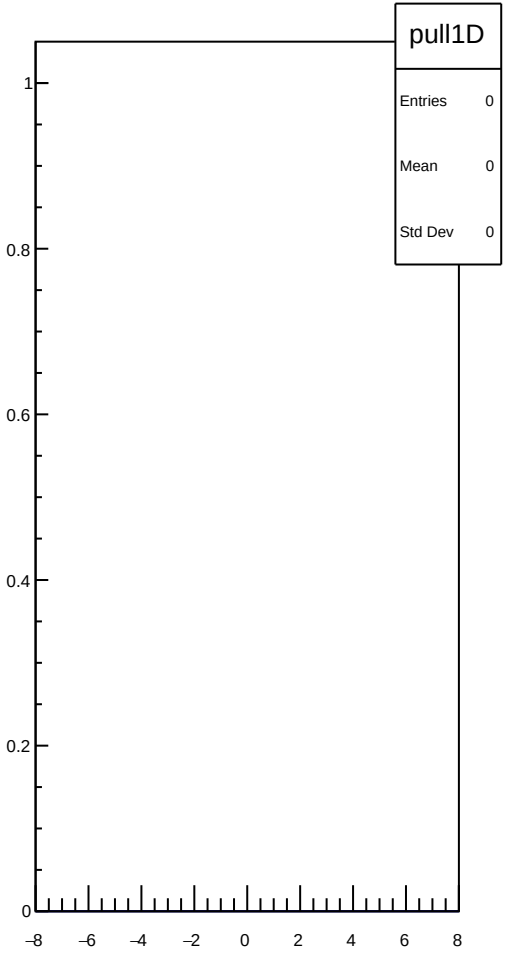

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1


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


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


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


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


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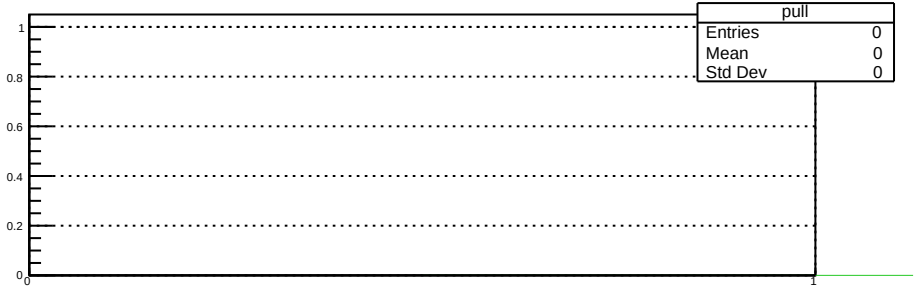
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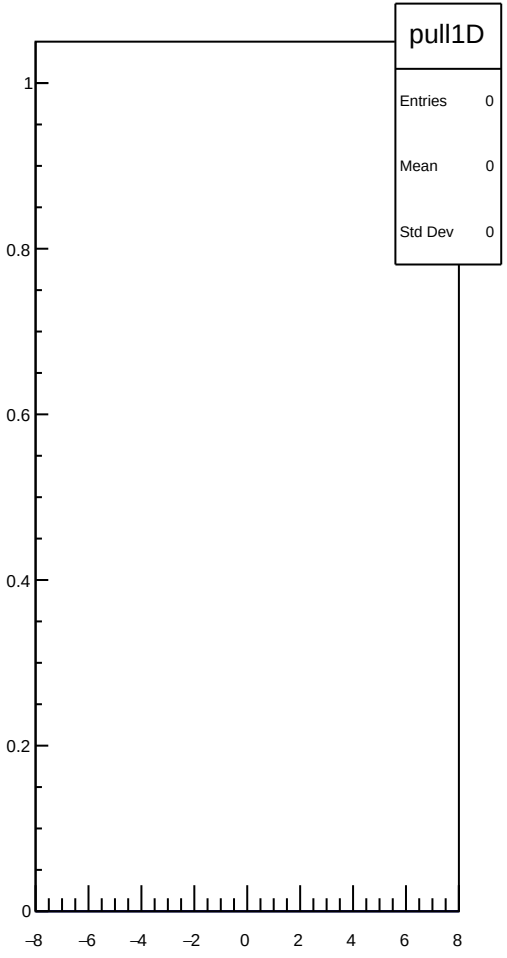
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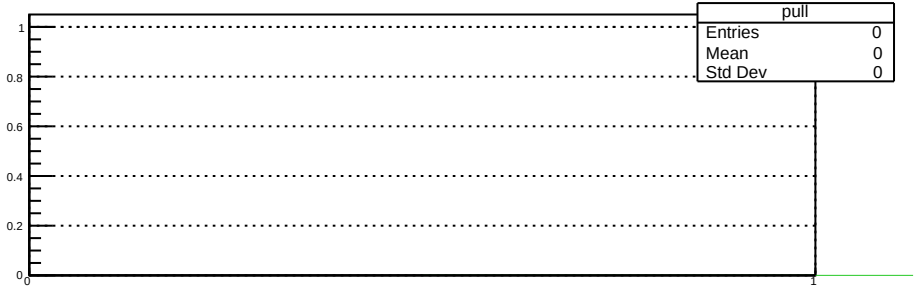
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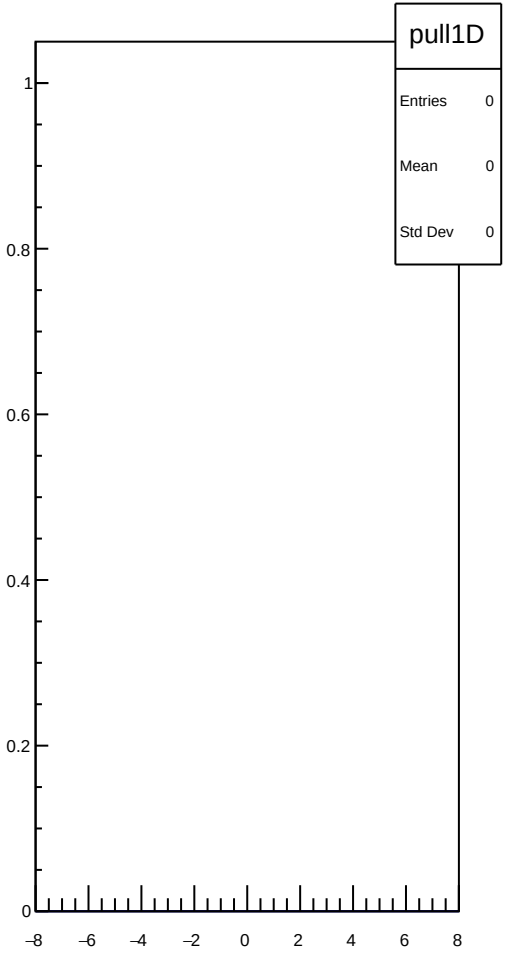
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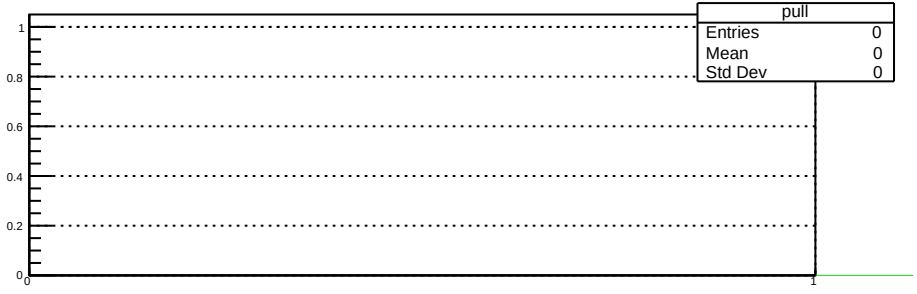
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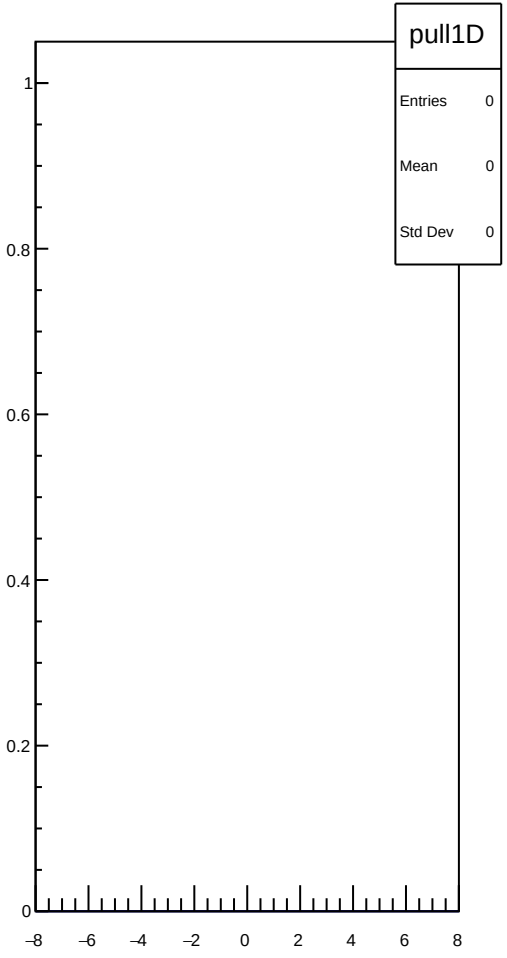
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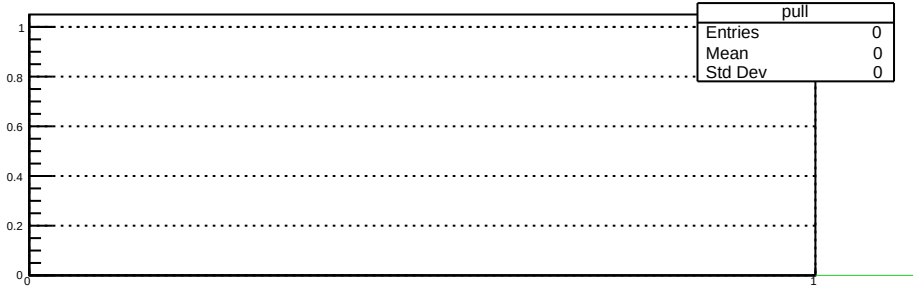
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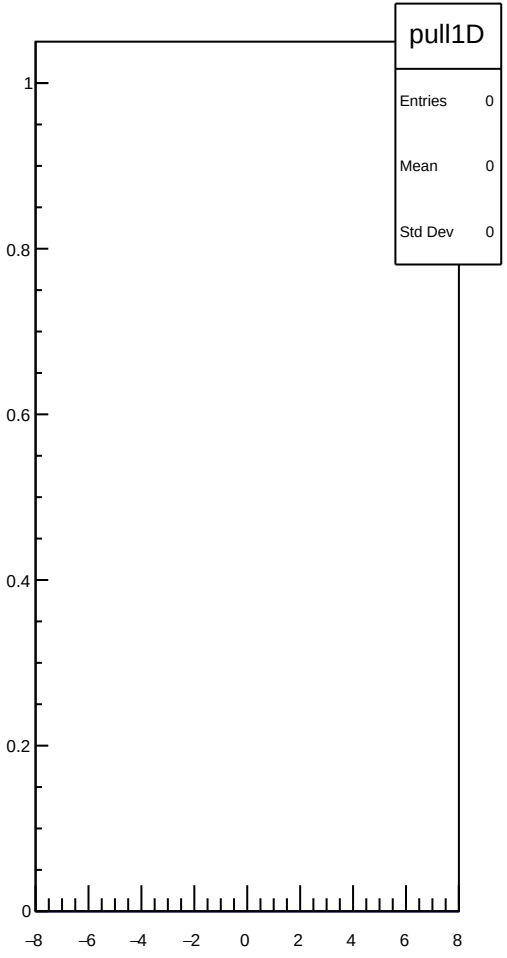
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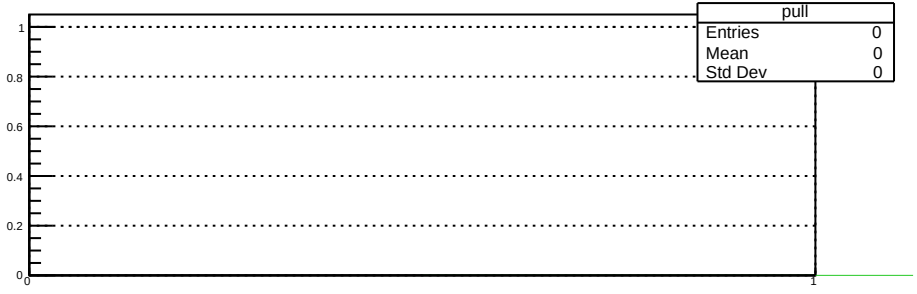
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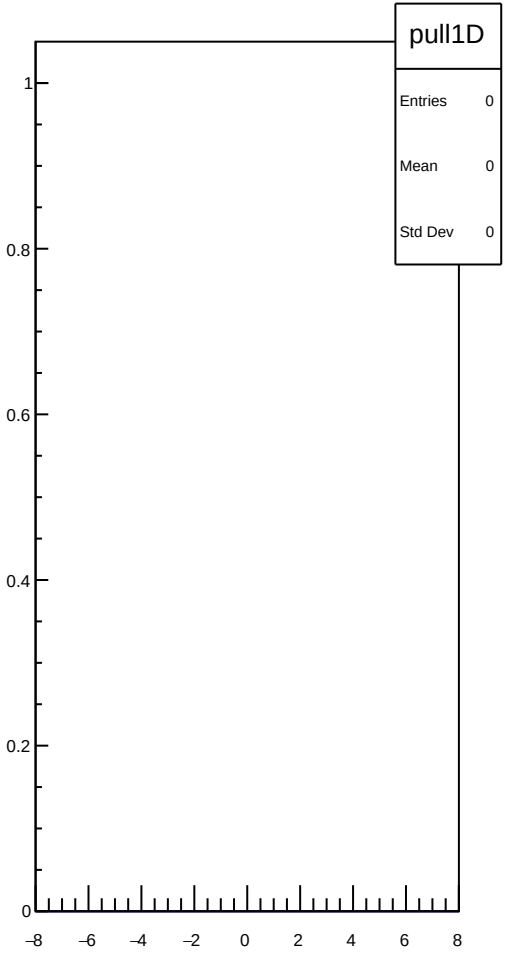
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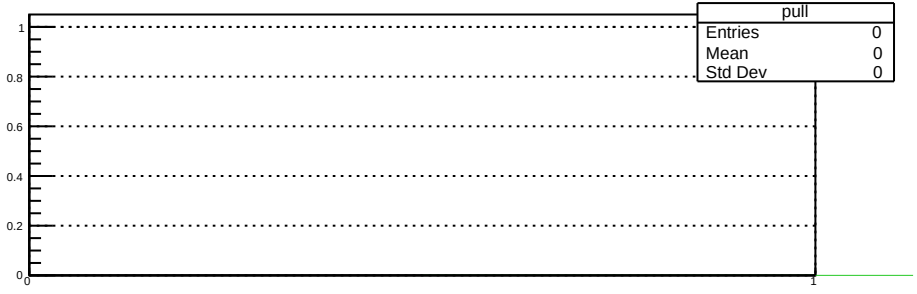
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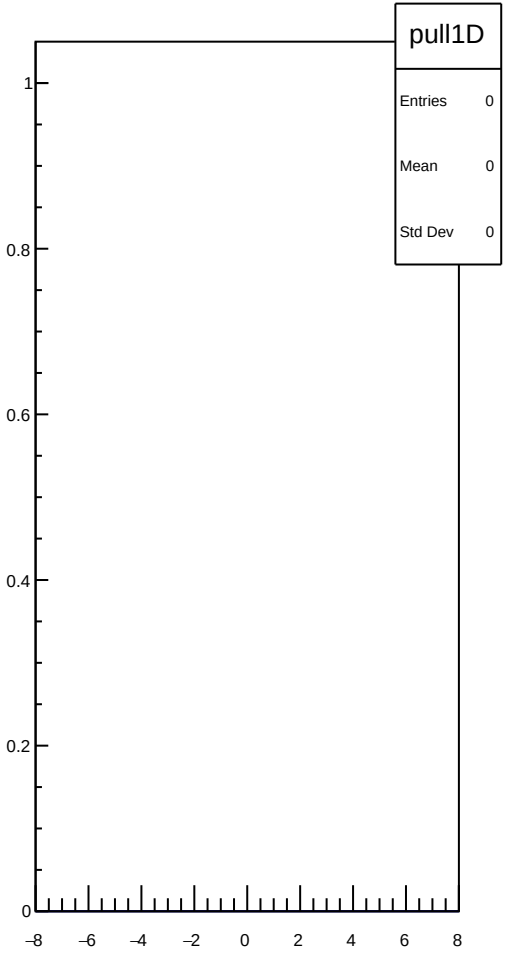
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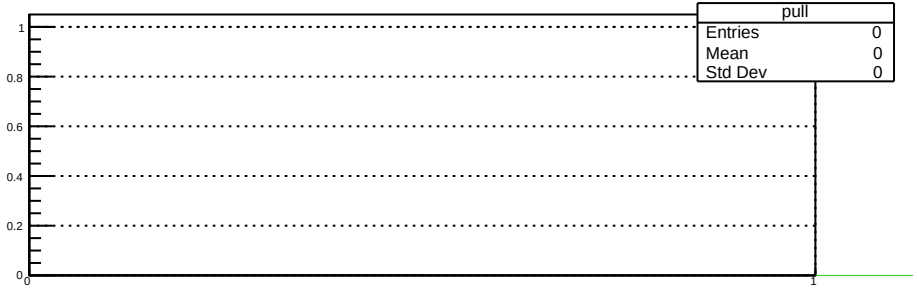
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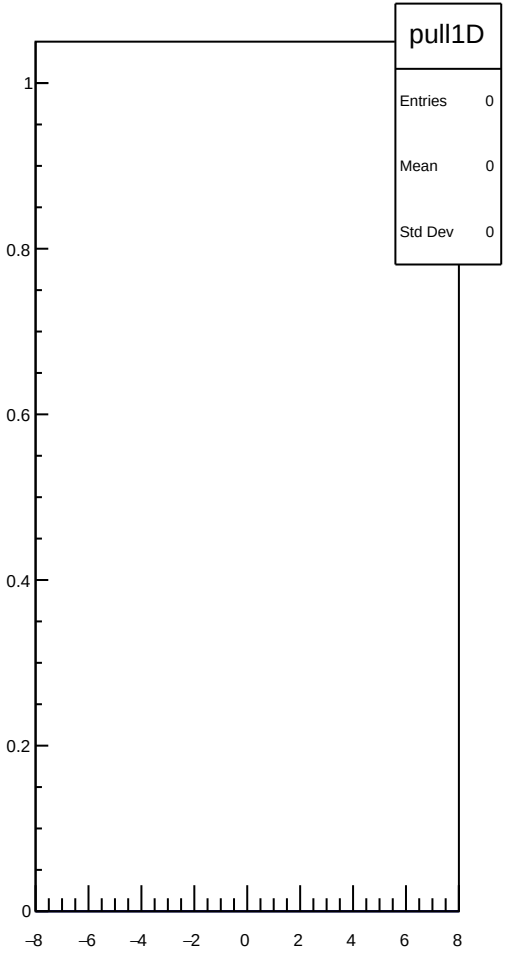
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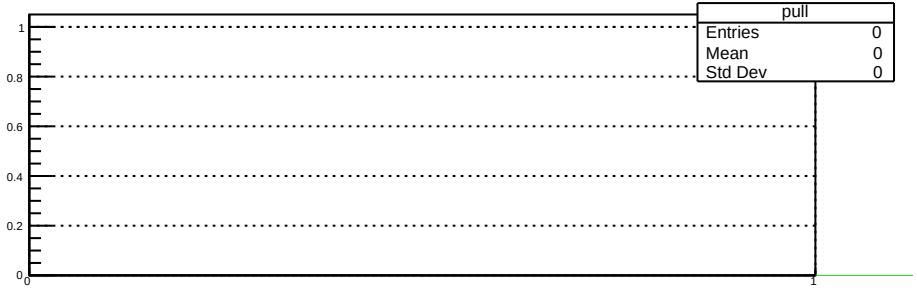
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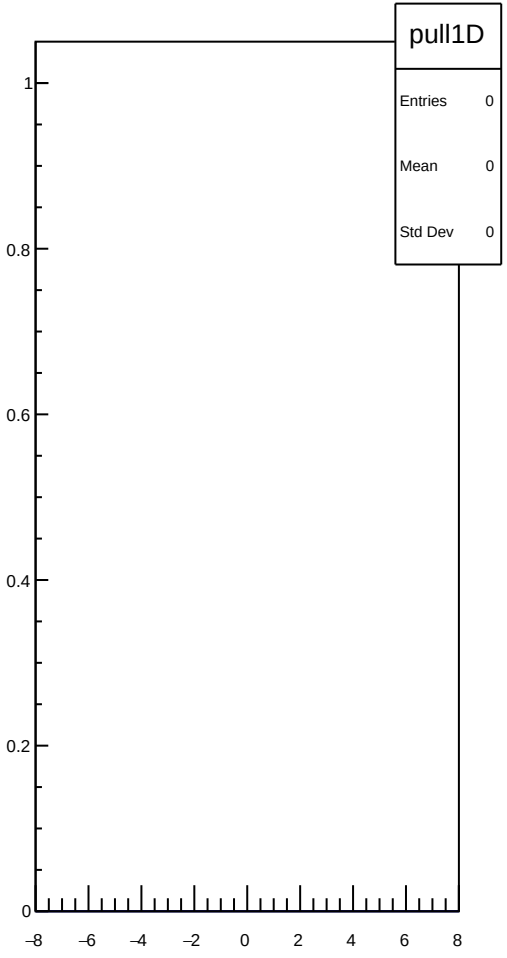
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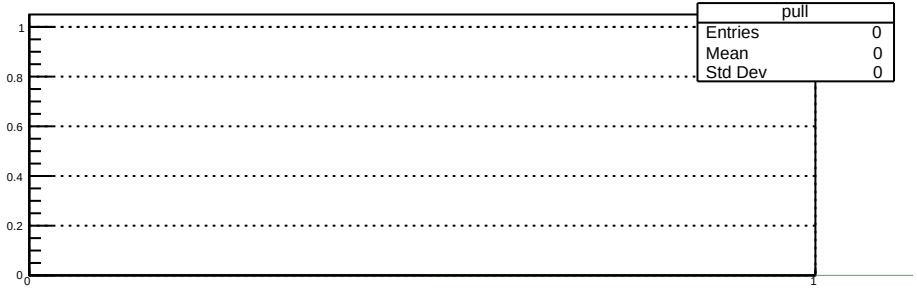
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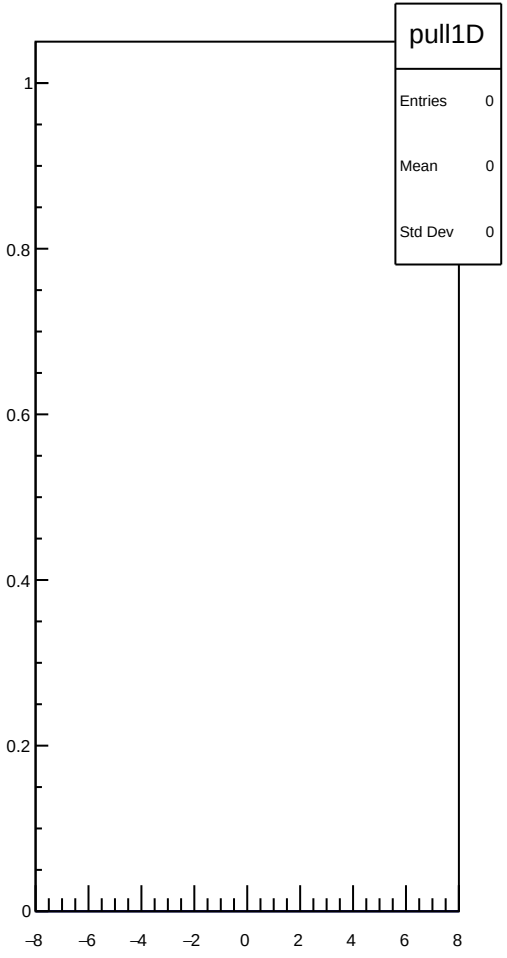
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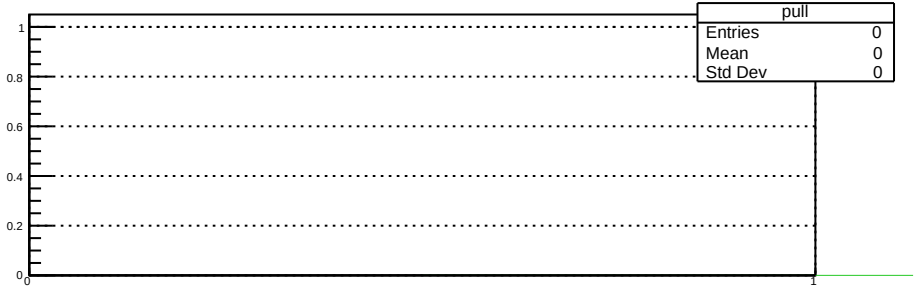
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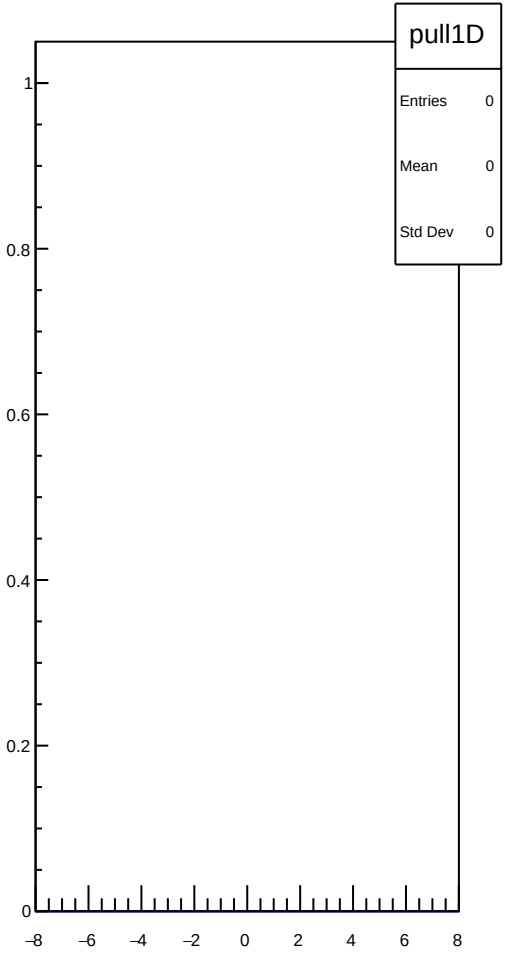
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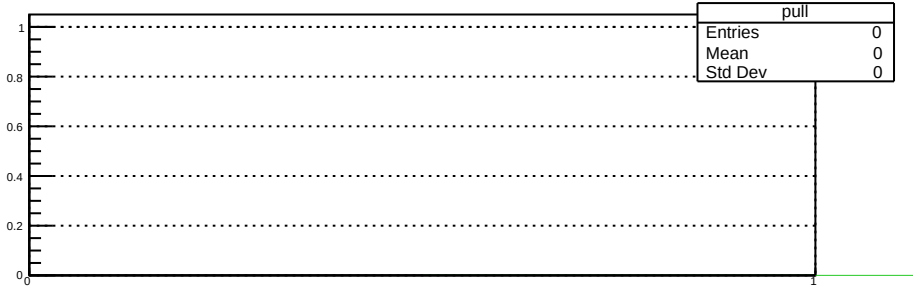
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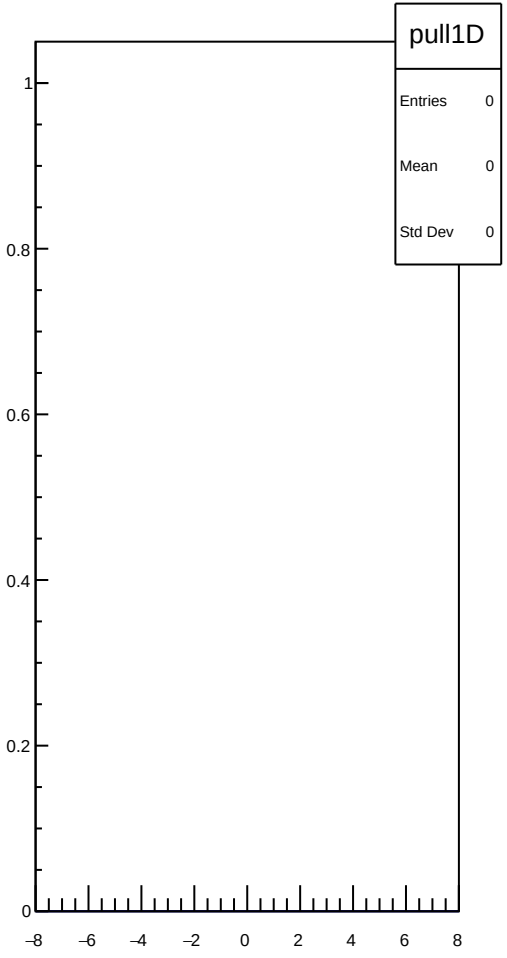
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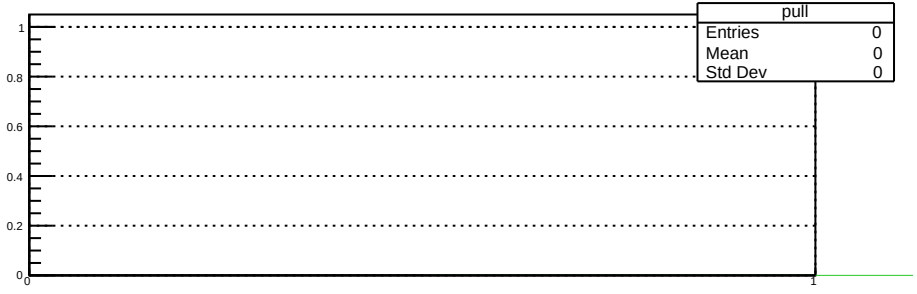
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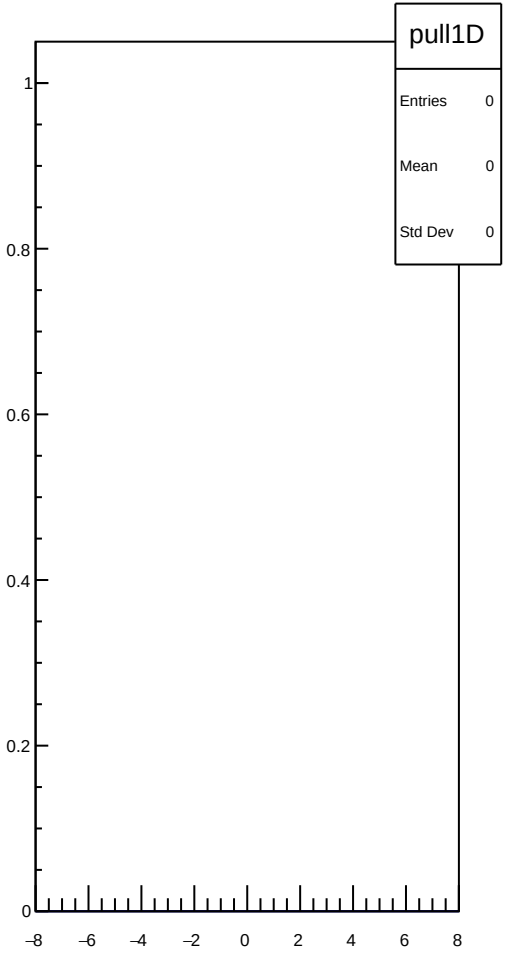
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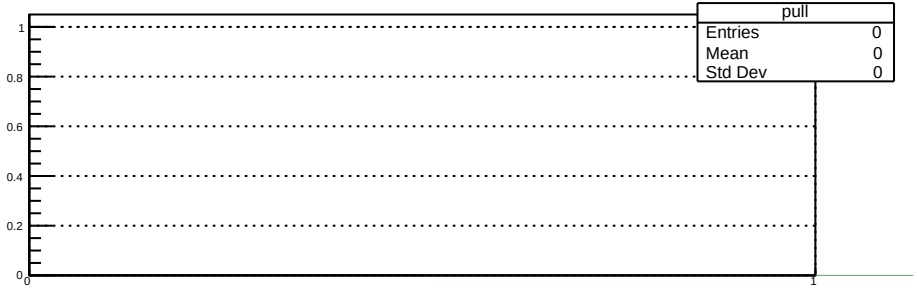
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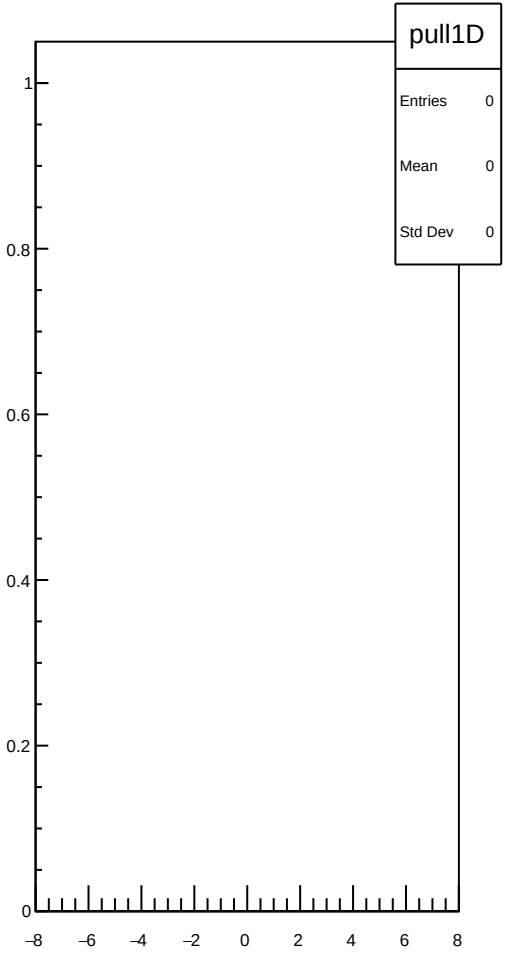
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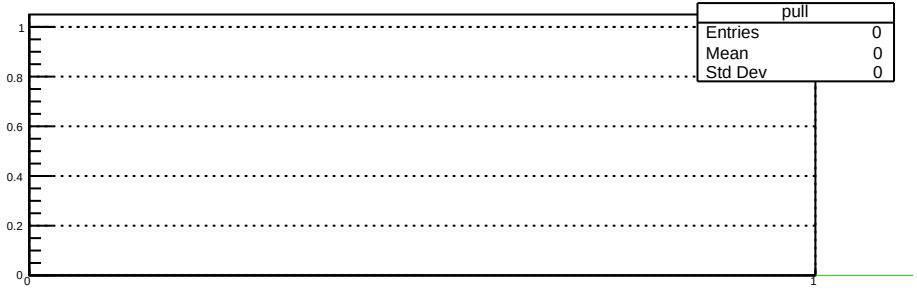
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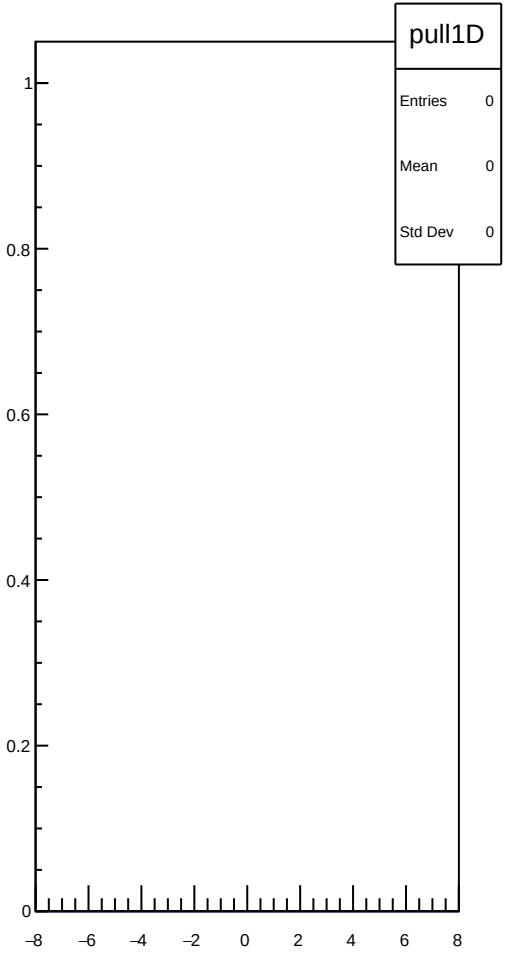
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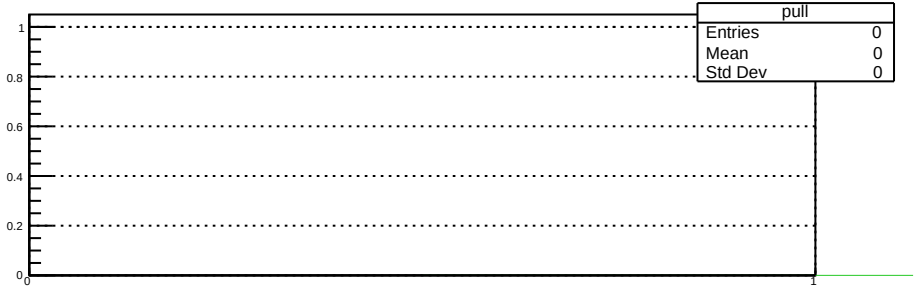
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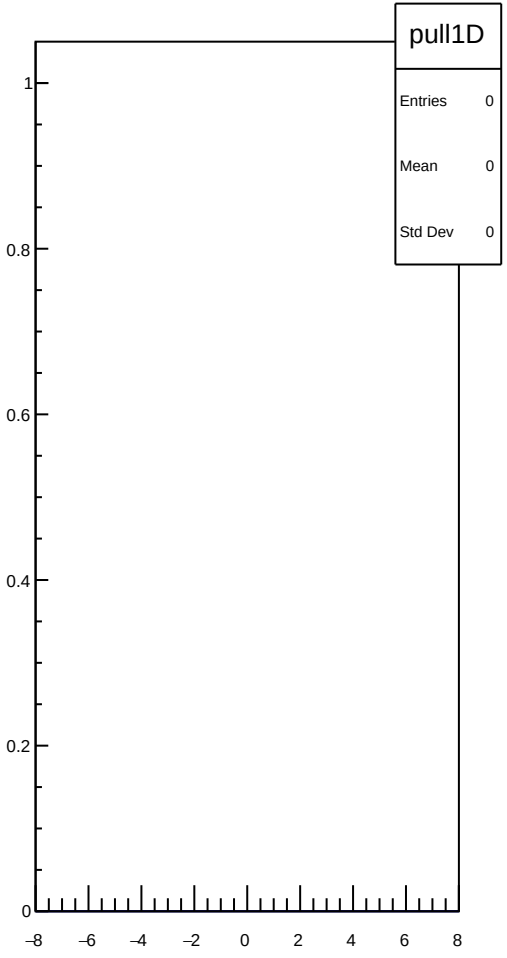
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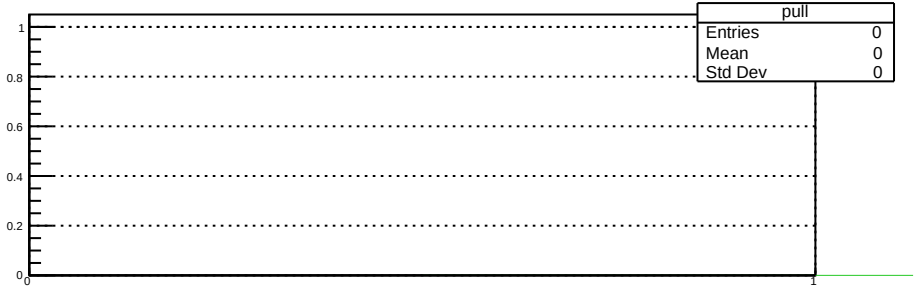
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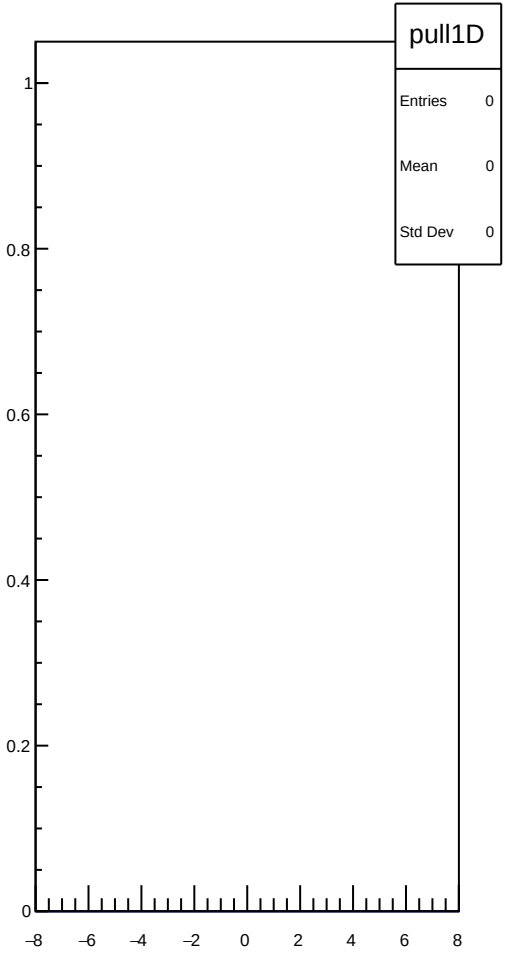
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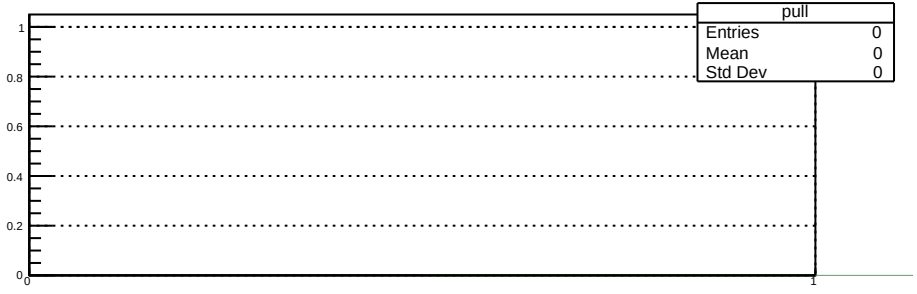
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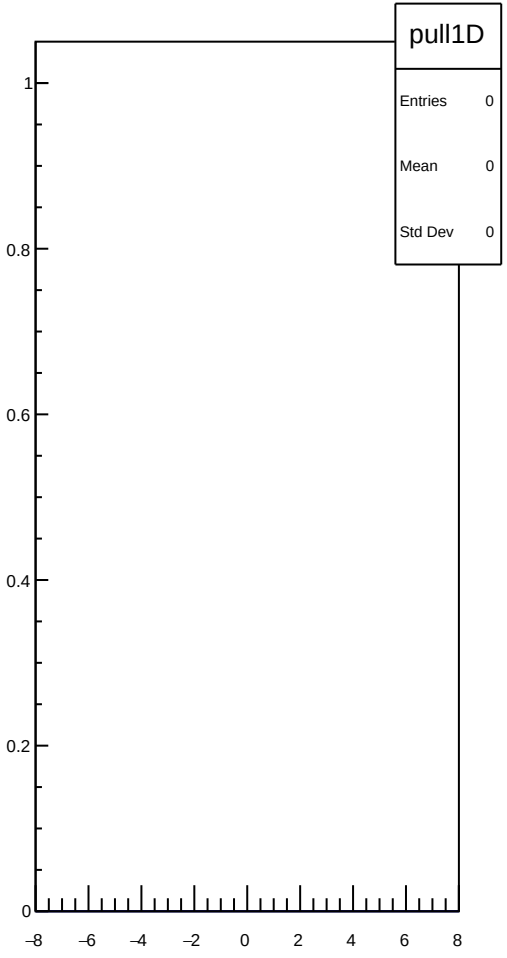
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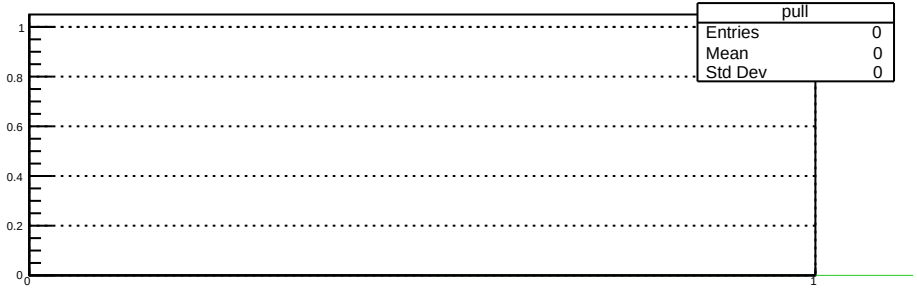
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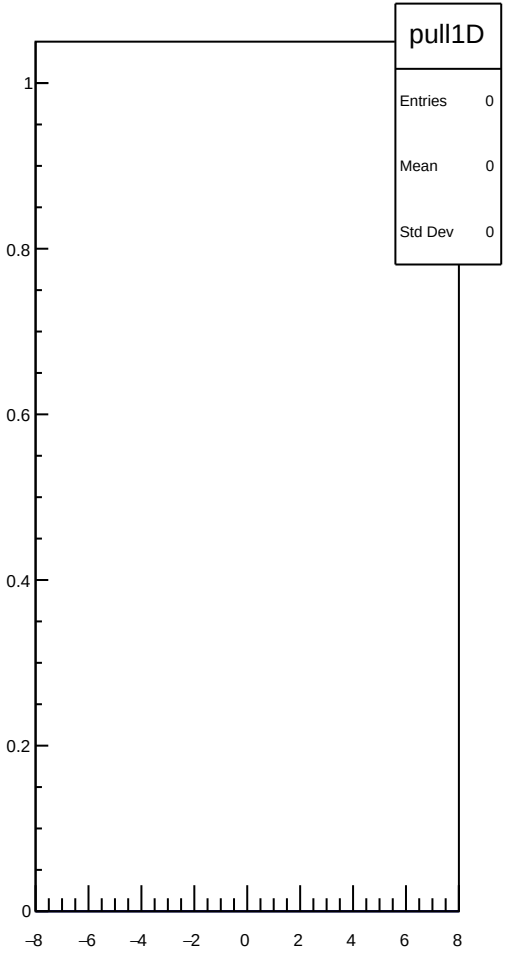
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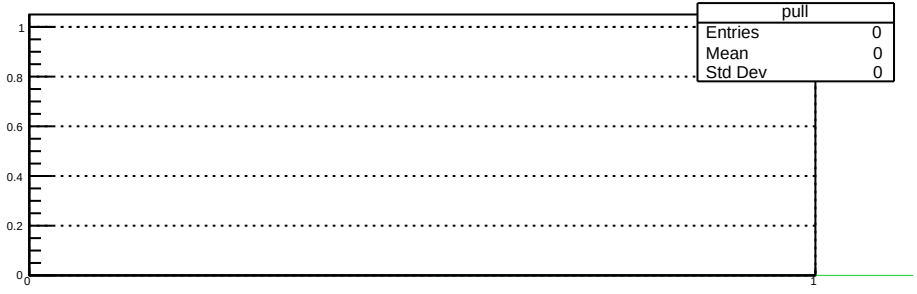
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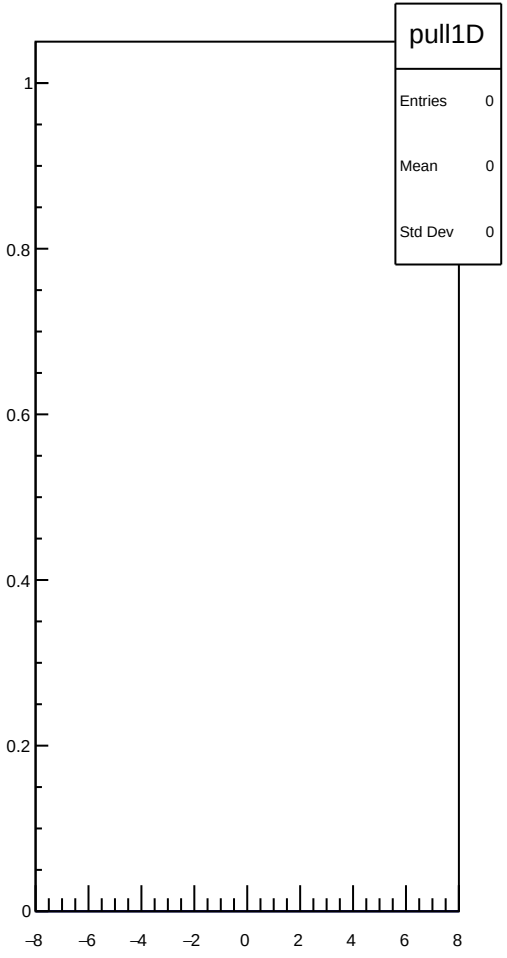
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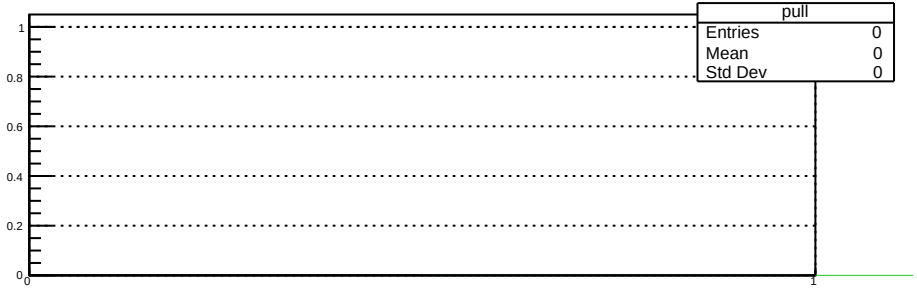
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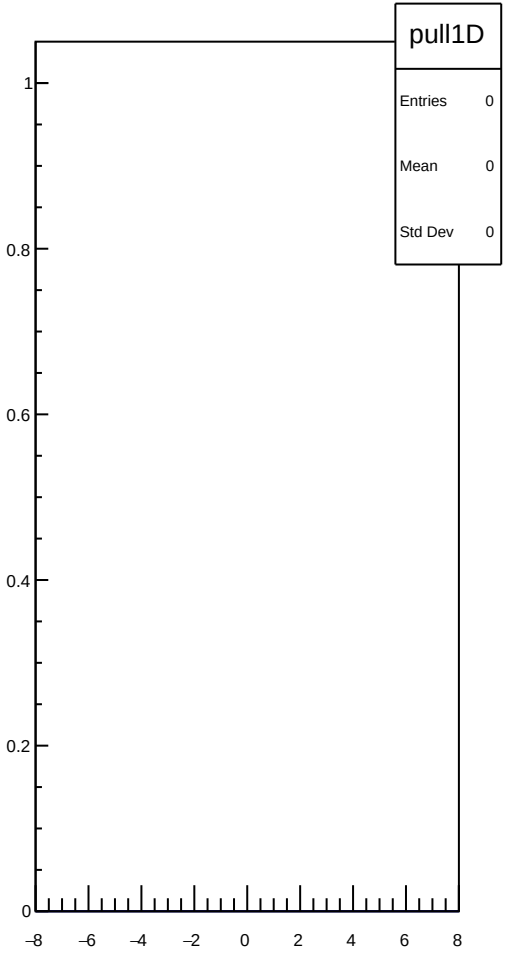
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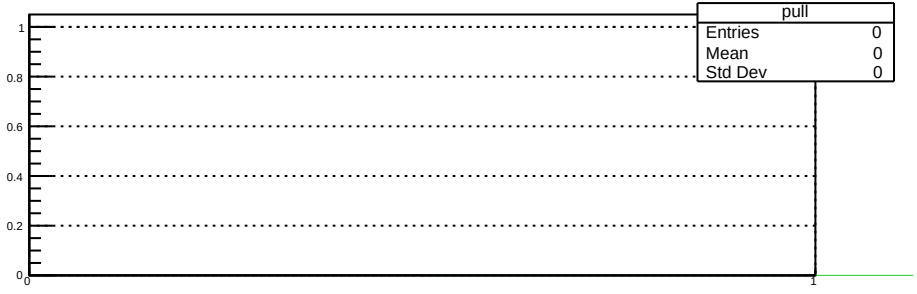
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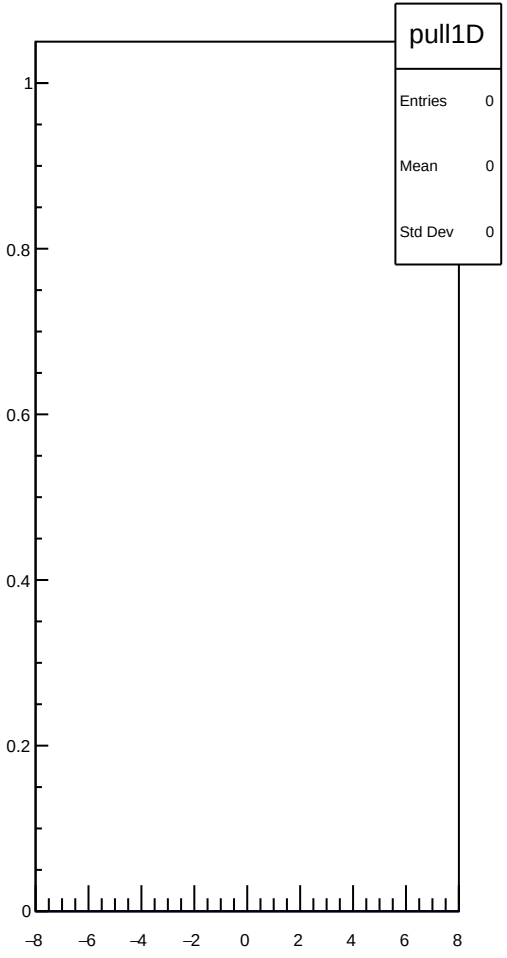
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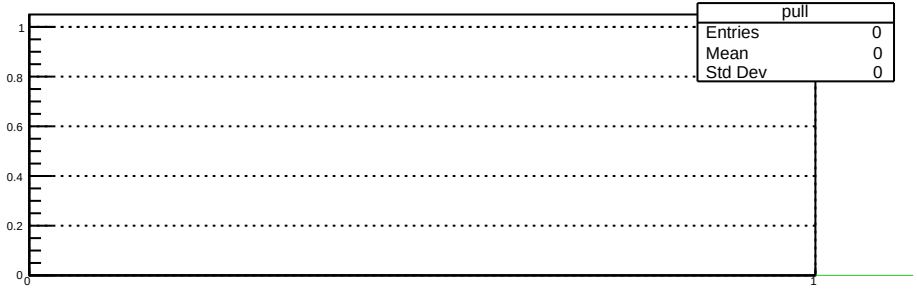
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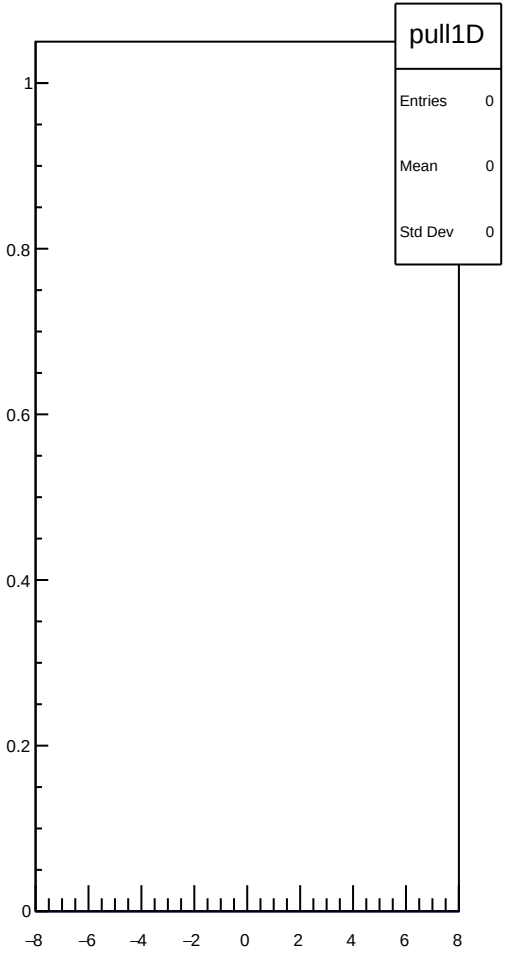
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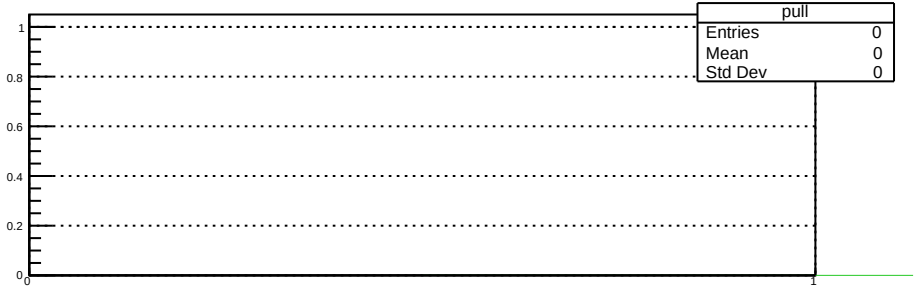
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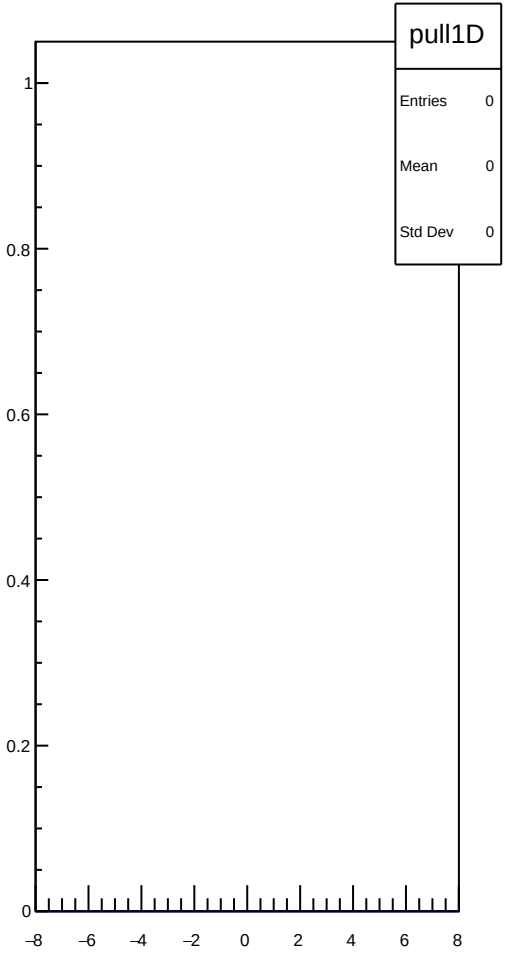
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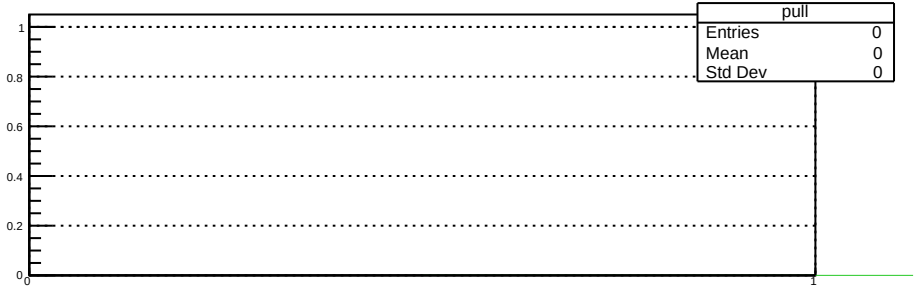
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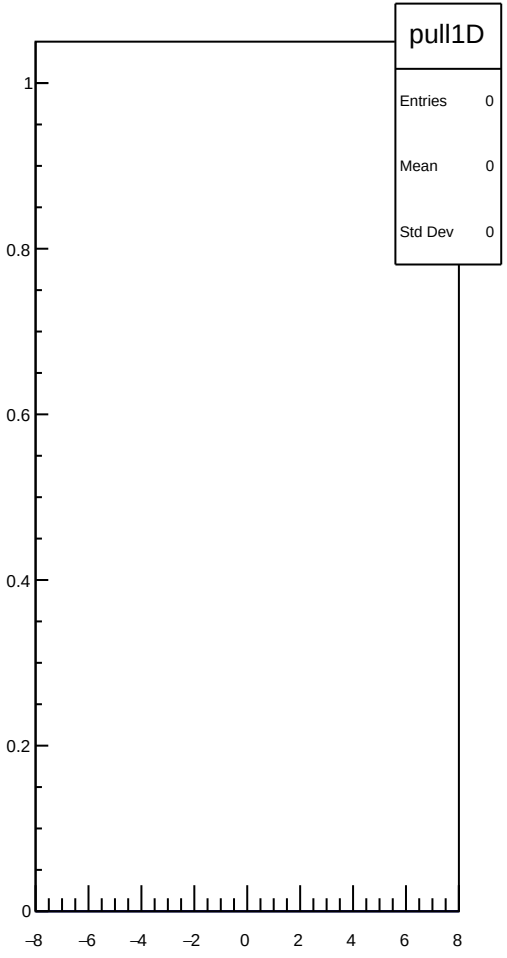
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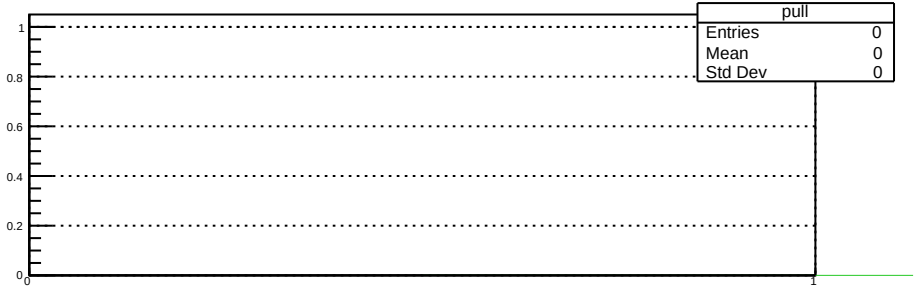
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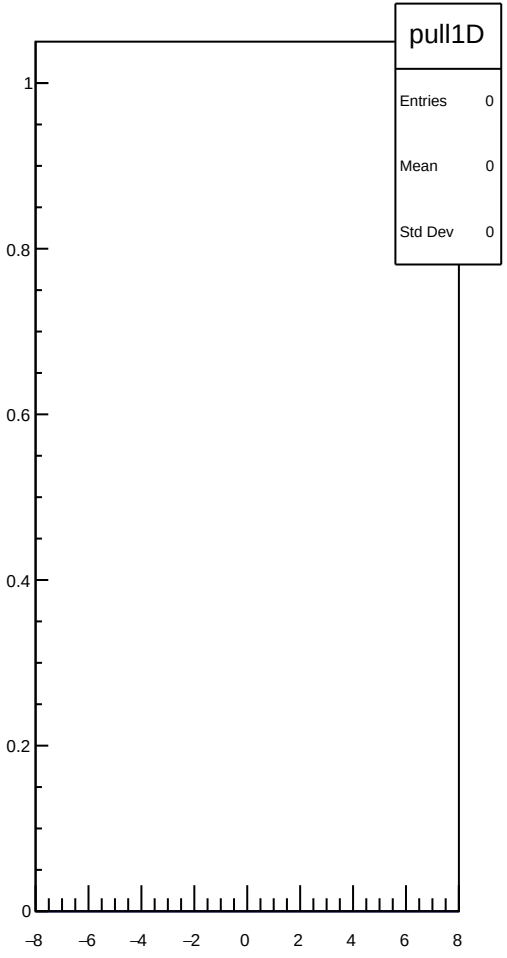
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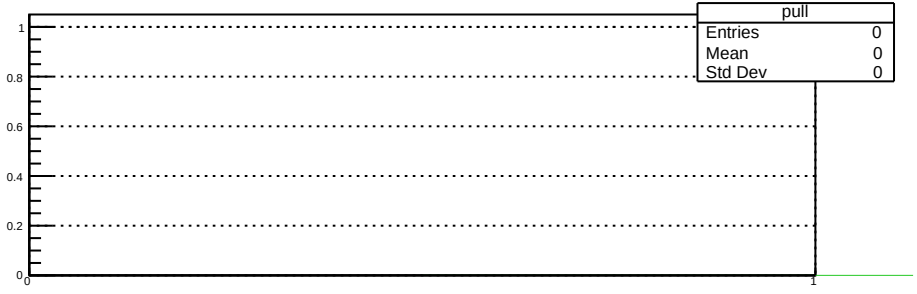
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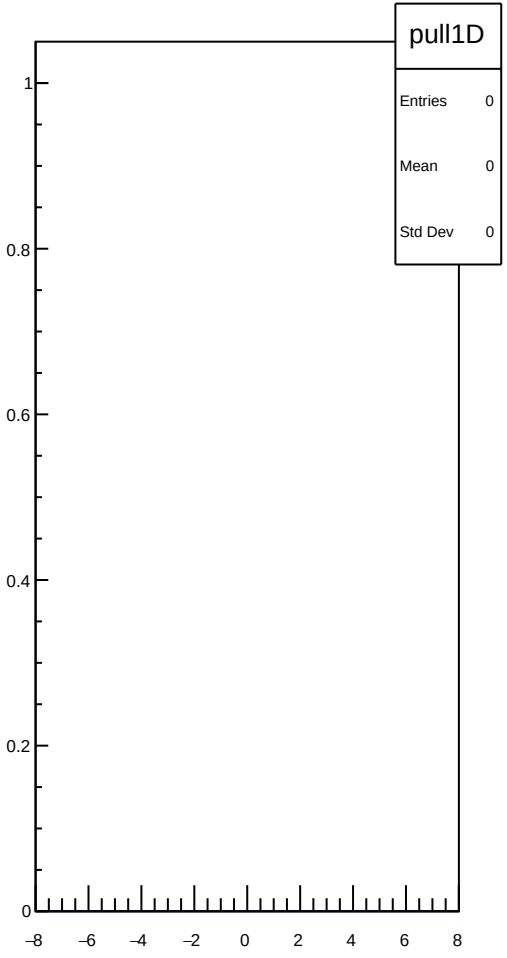
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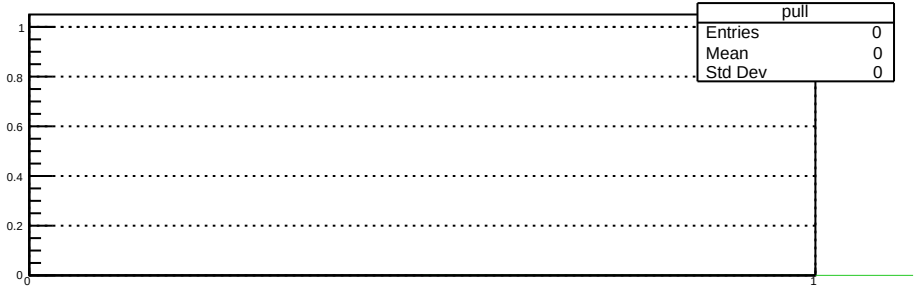
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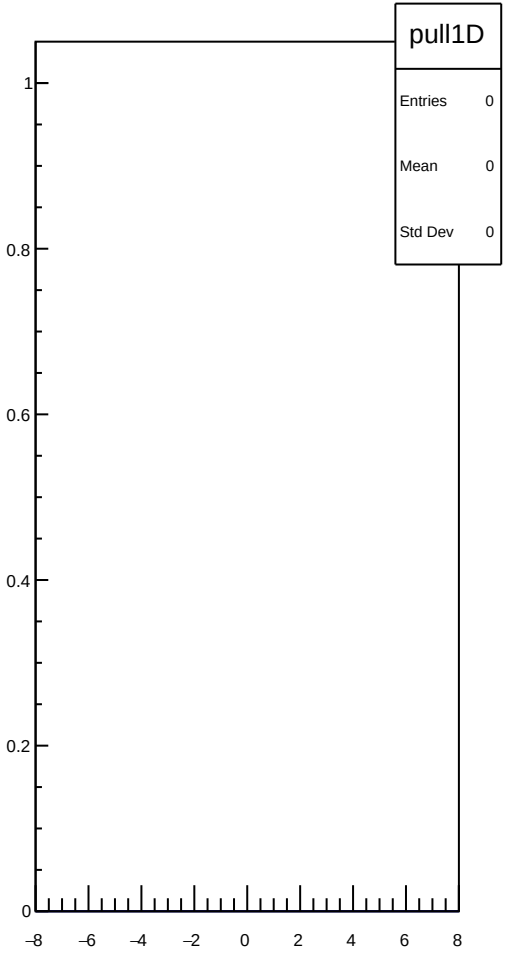
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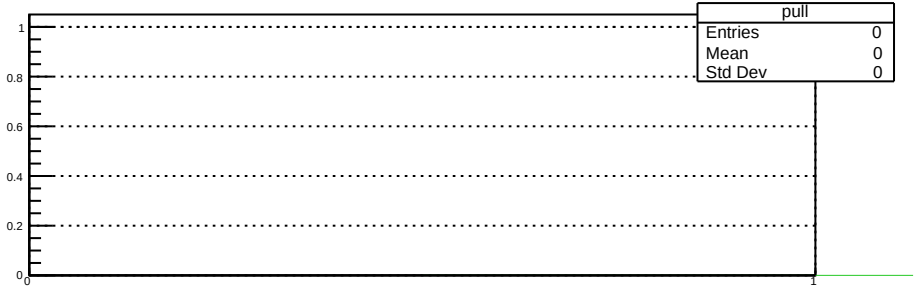
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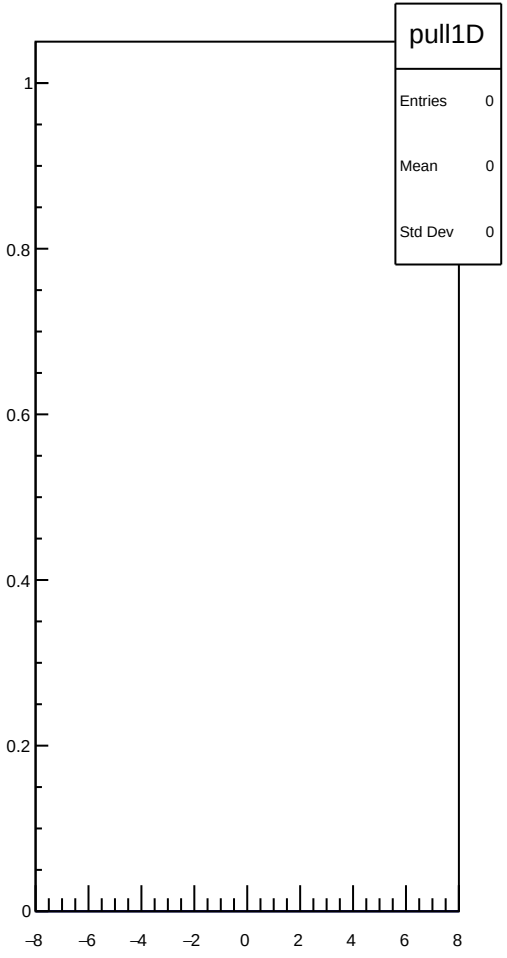
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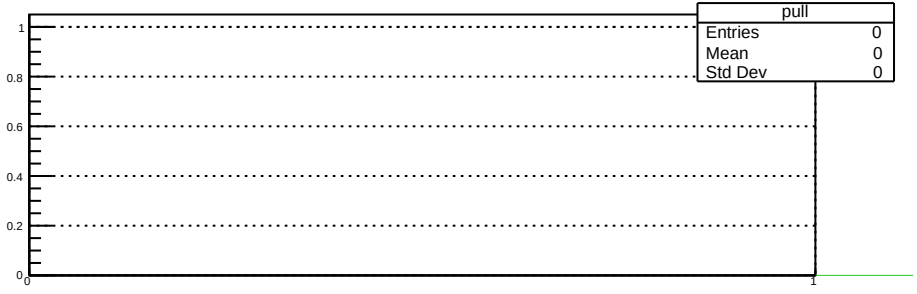
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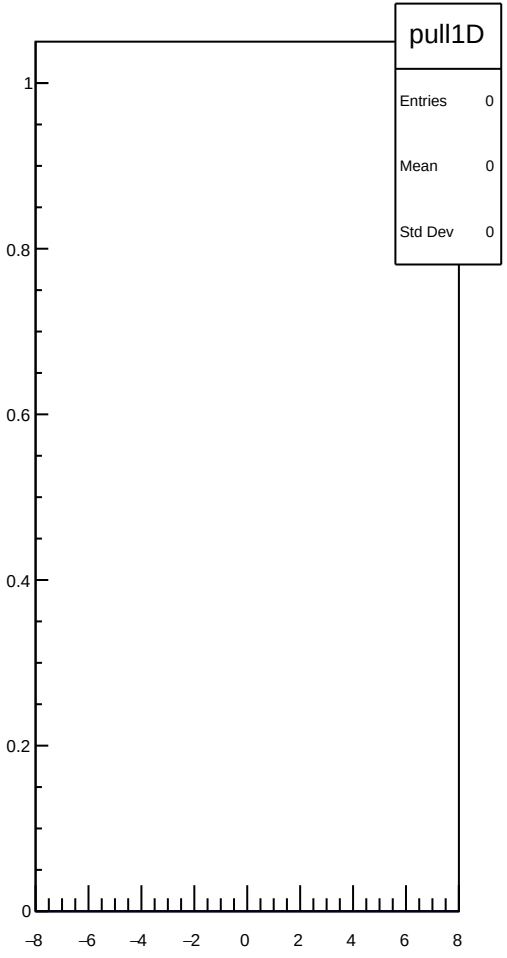
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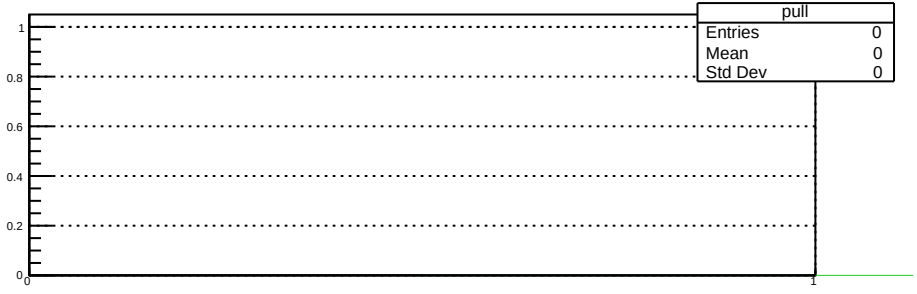
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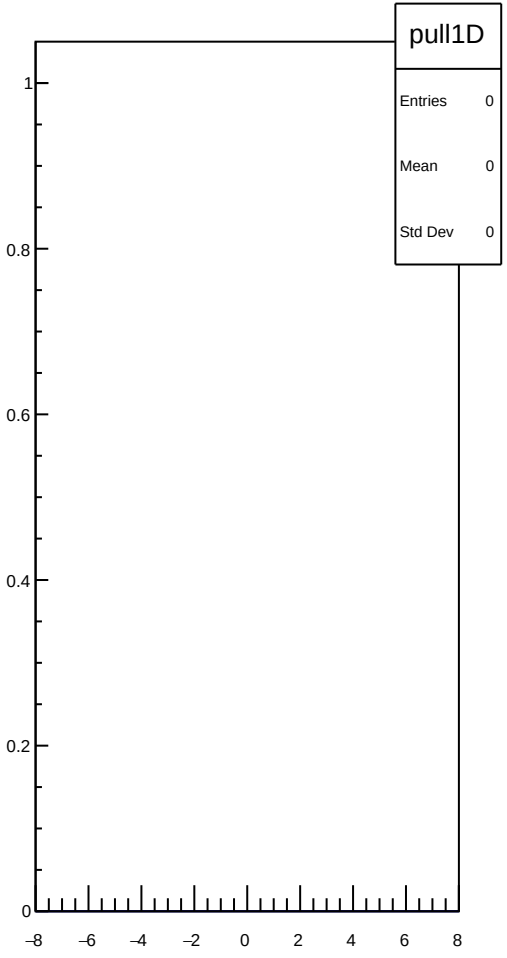
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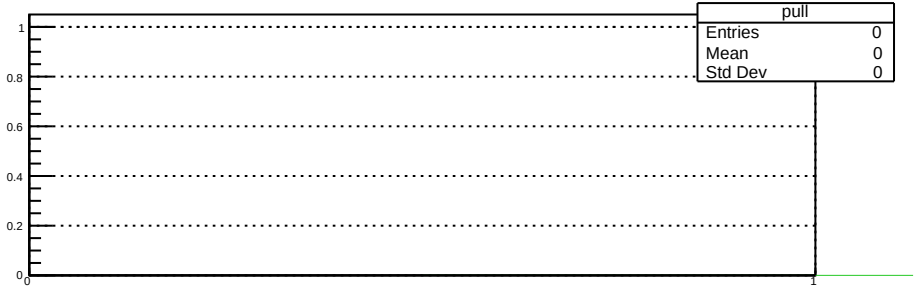
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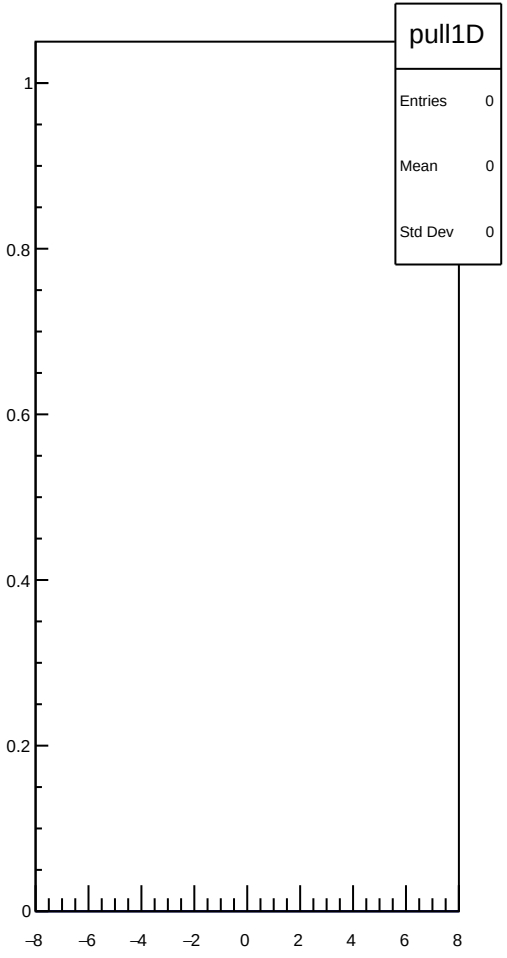
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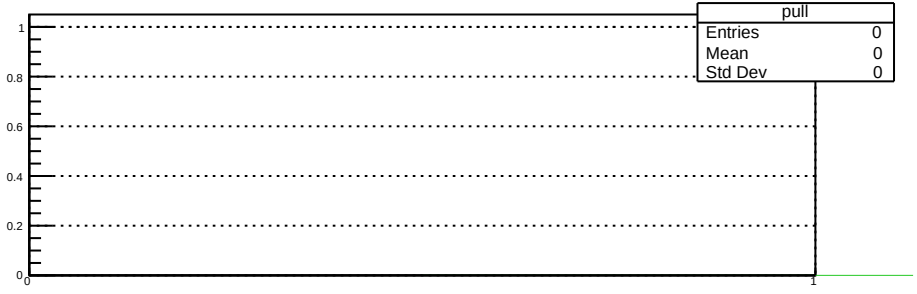
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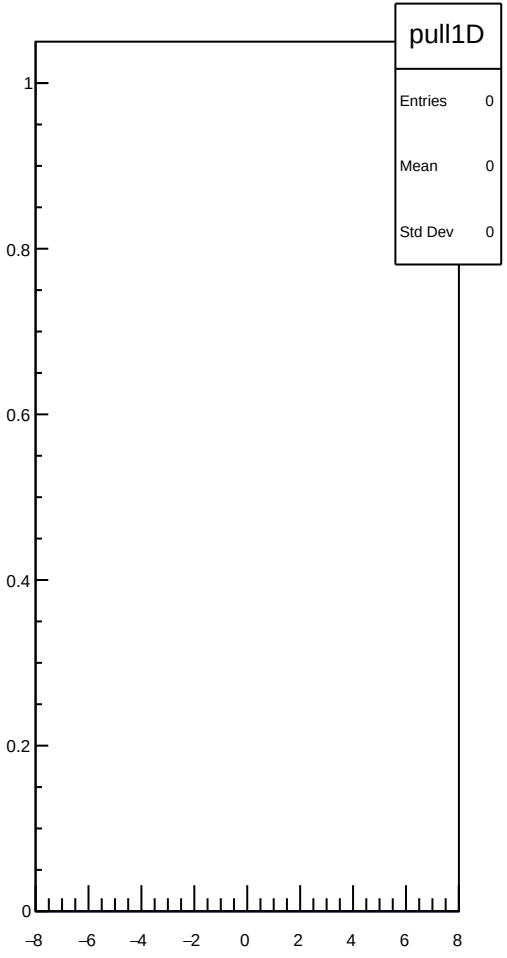
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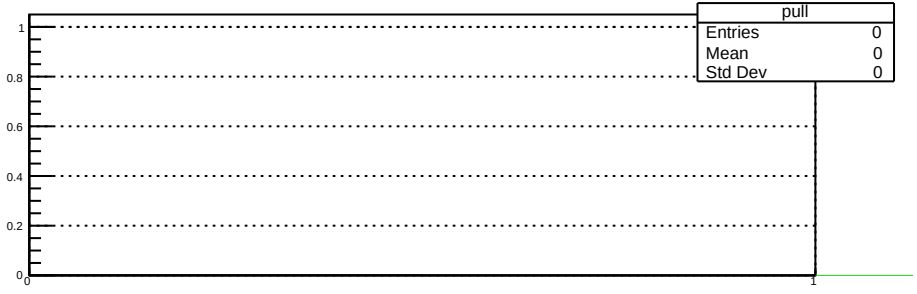
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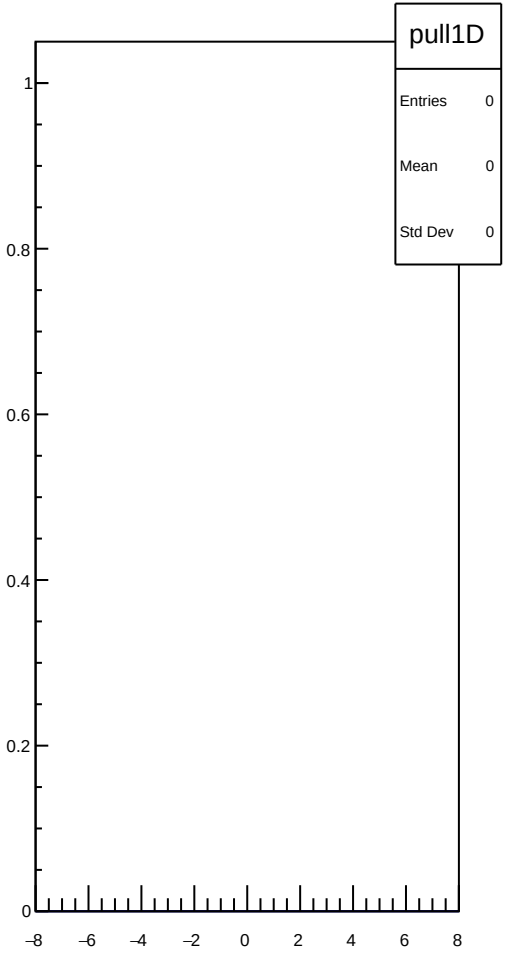
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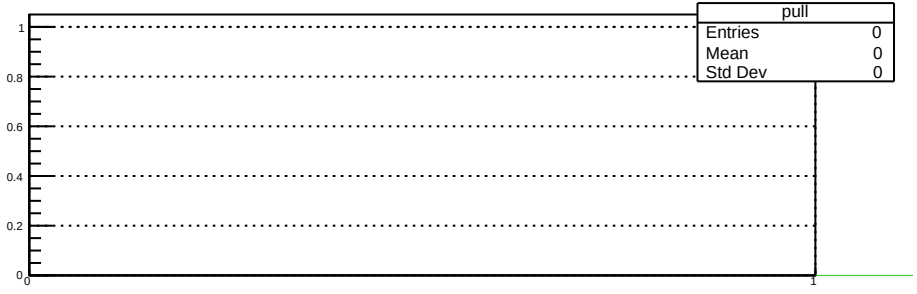
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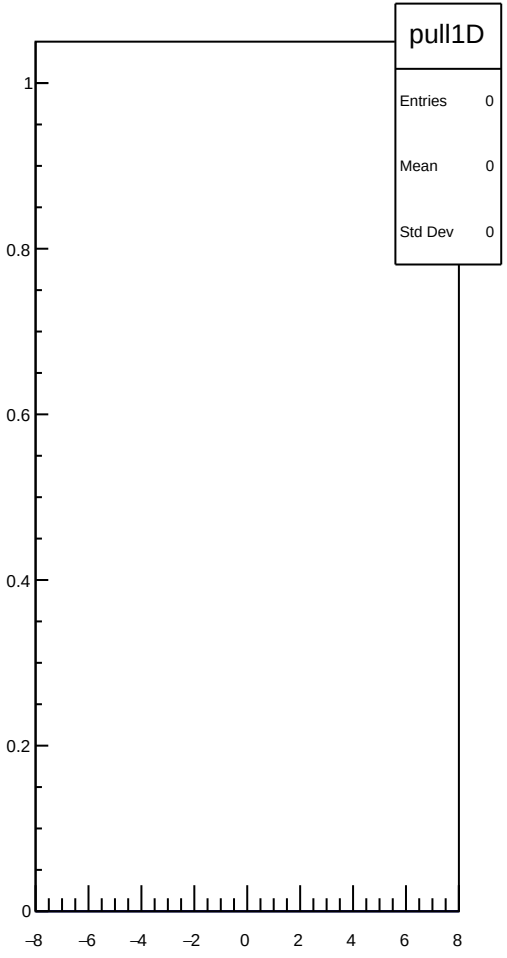
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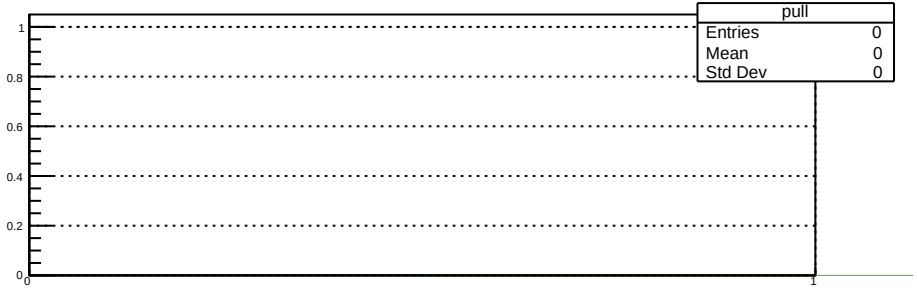
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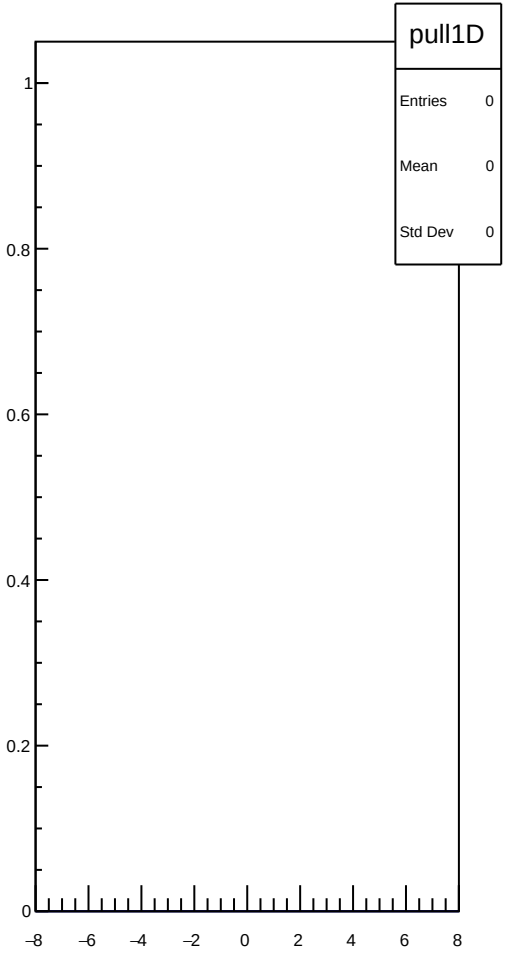
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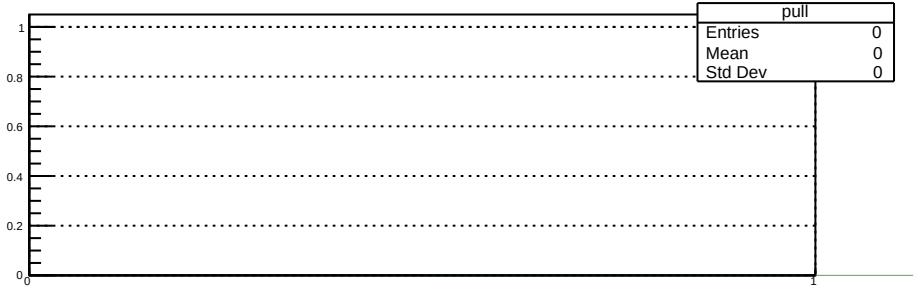
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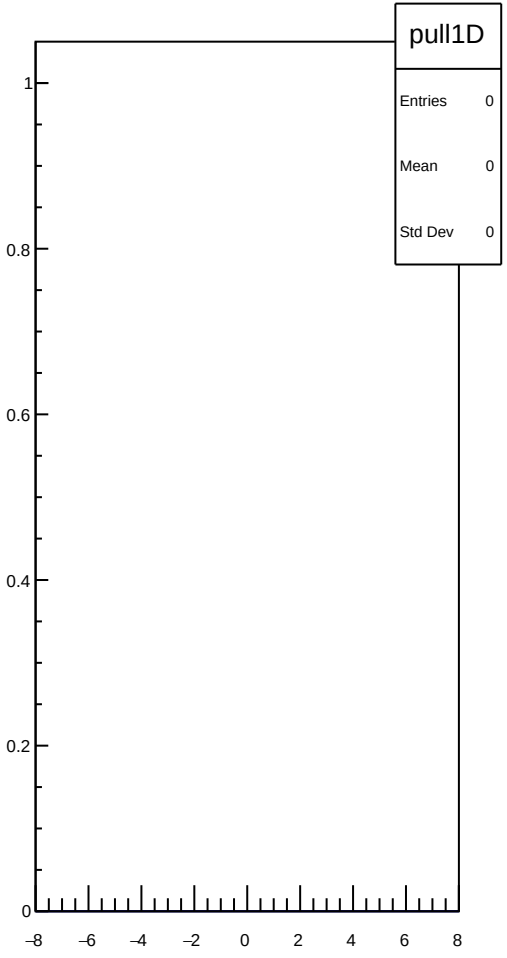
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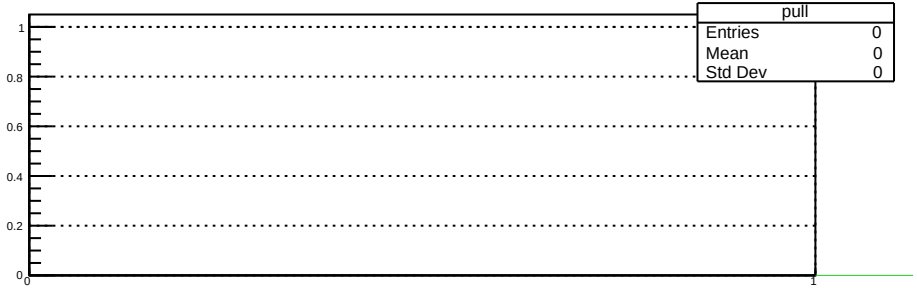
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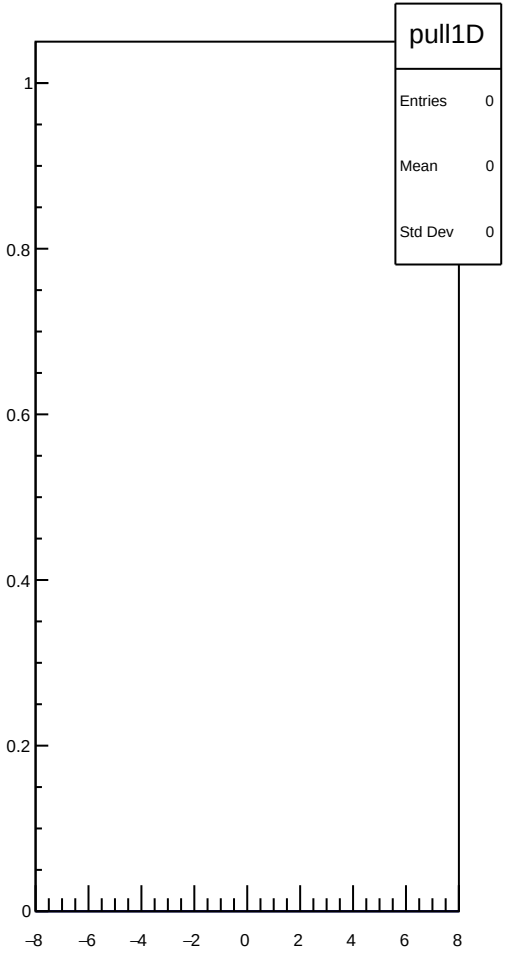
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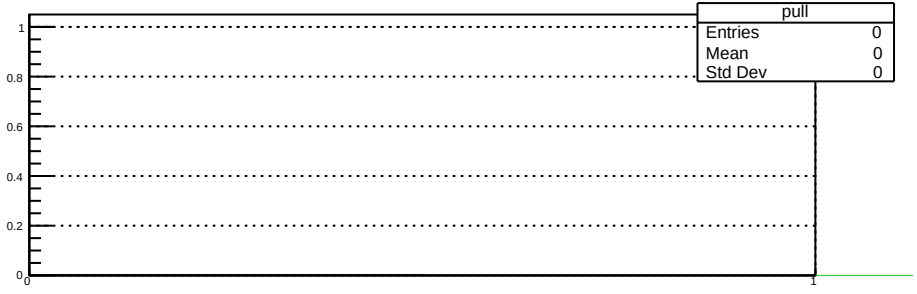
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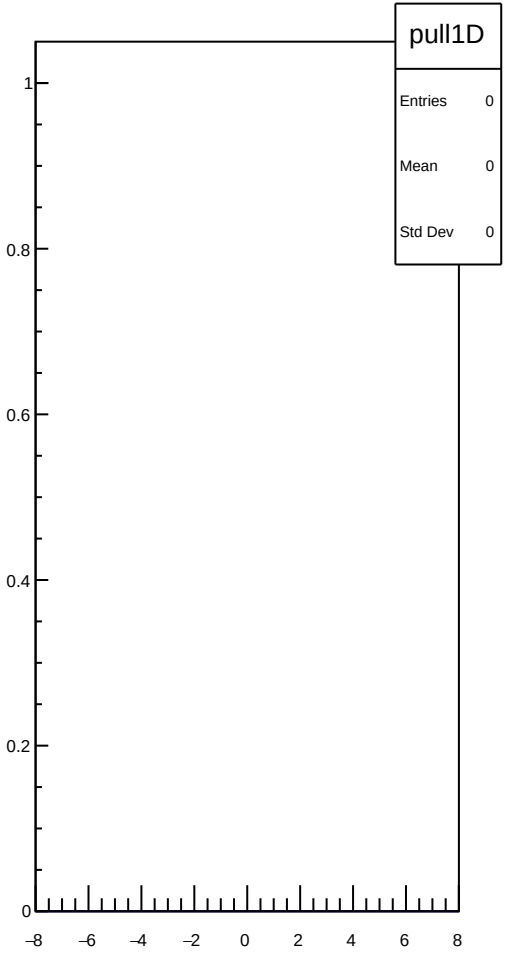
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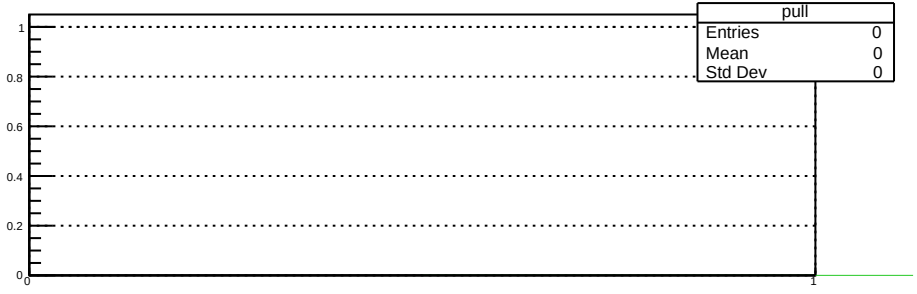
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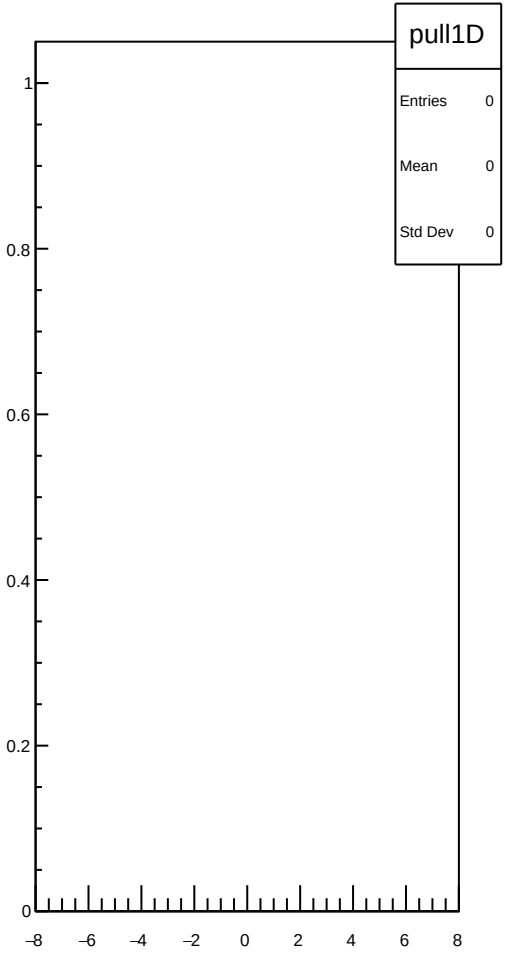
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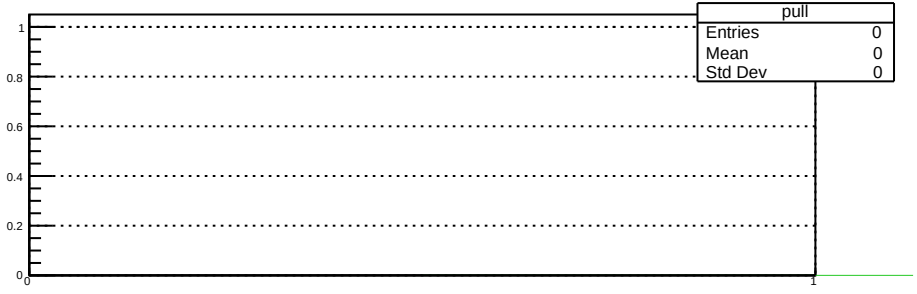
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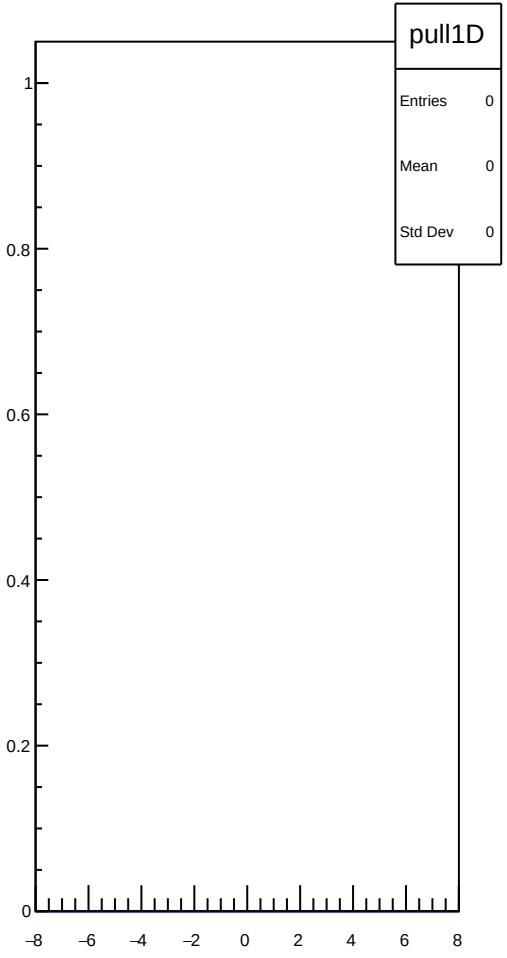
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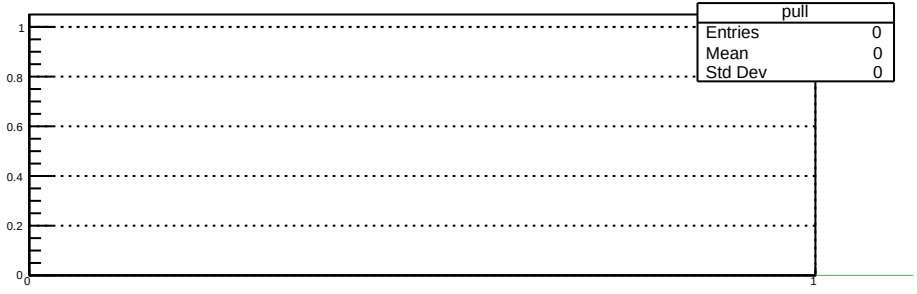
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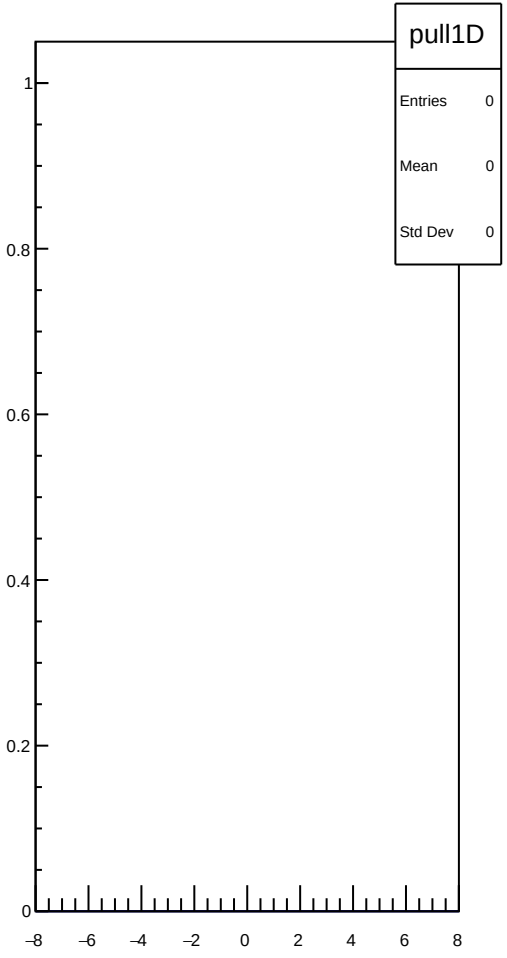
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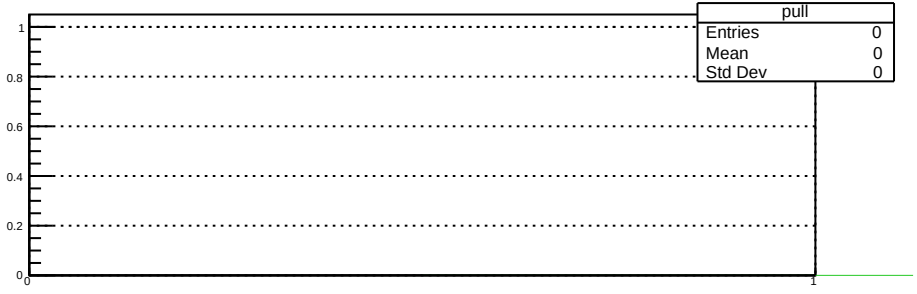
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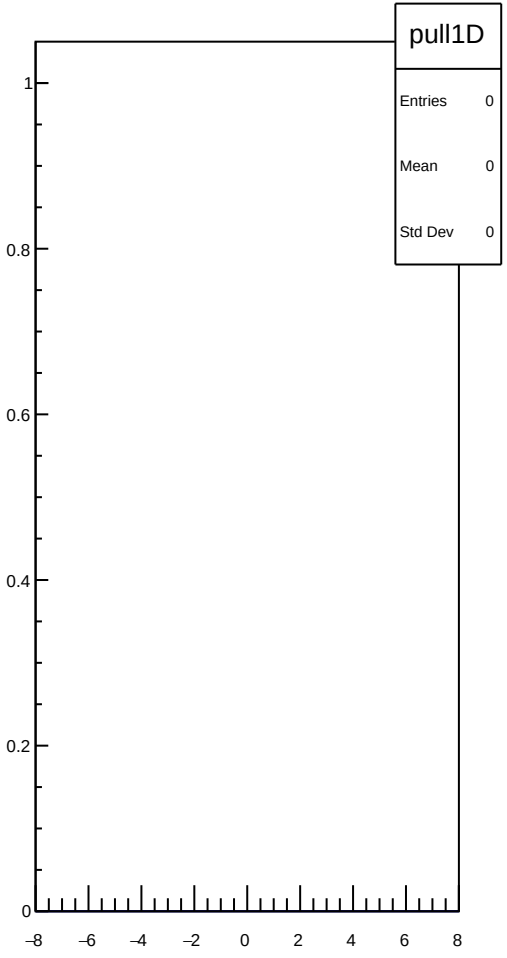
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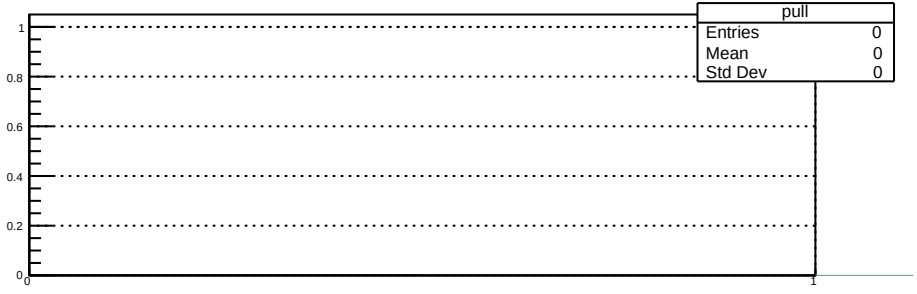
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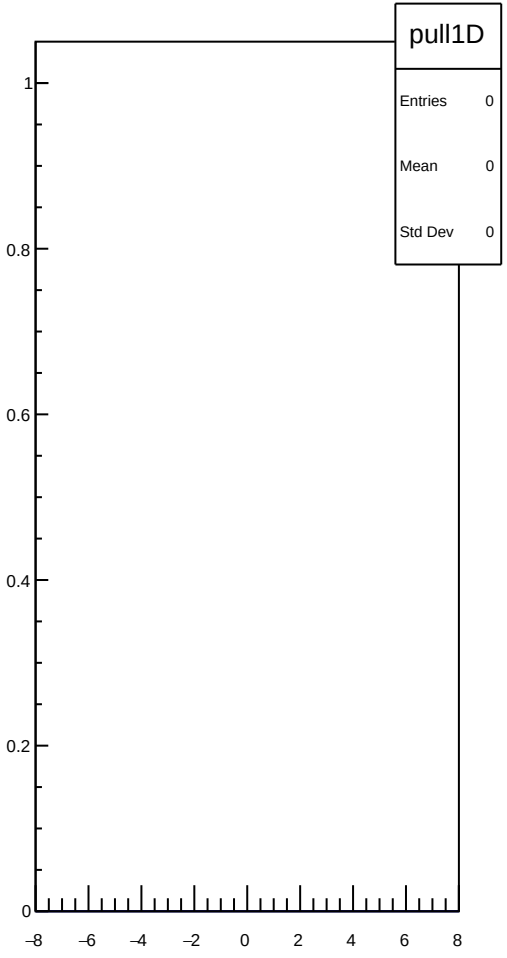
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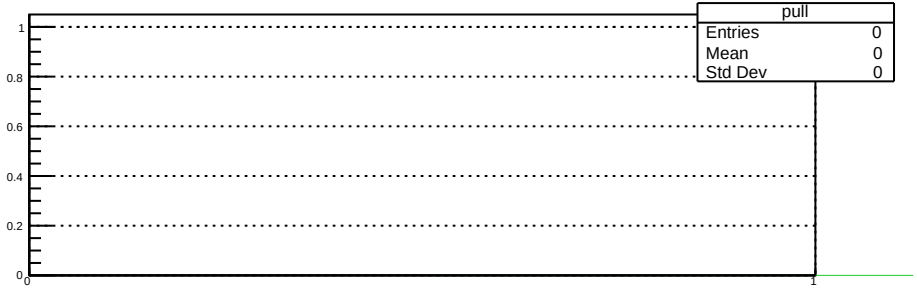
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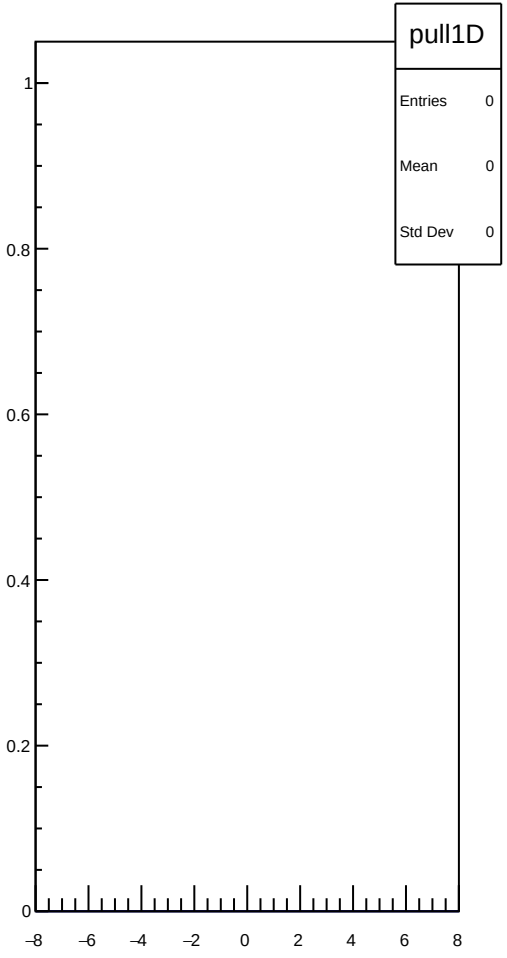
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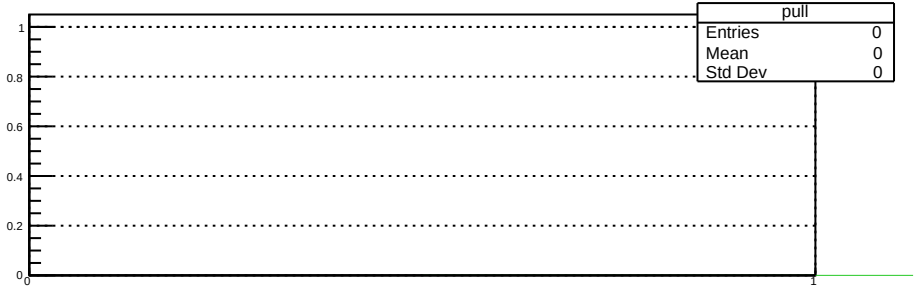
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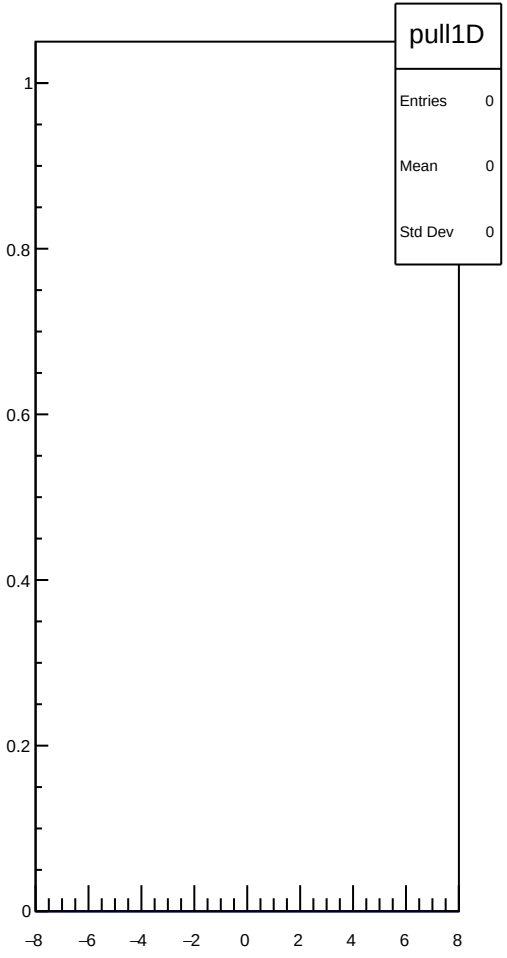
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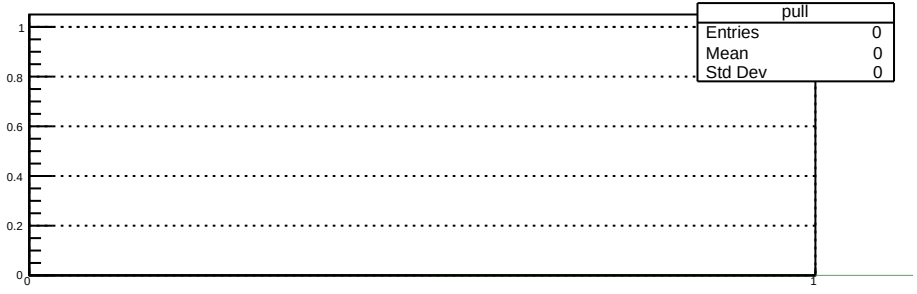
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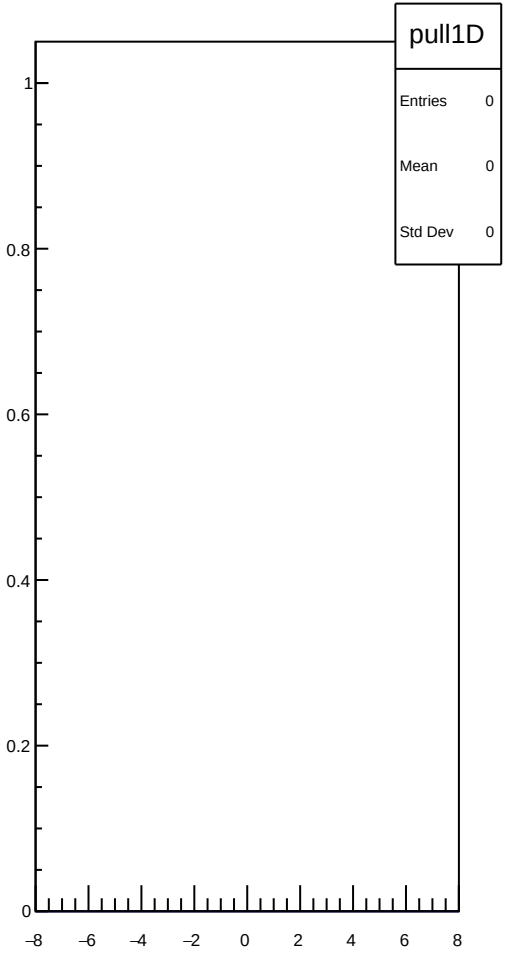
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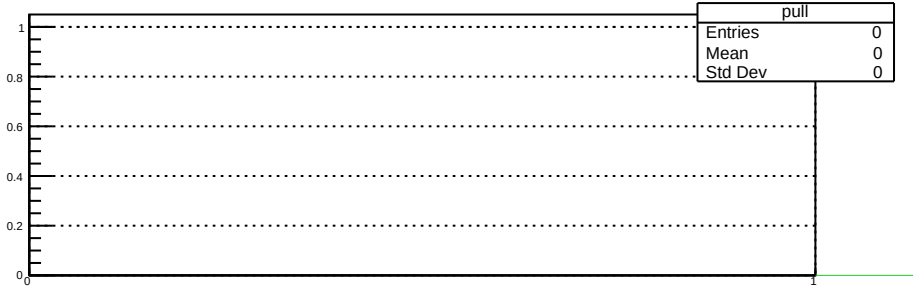
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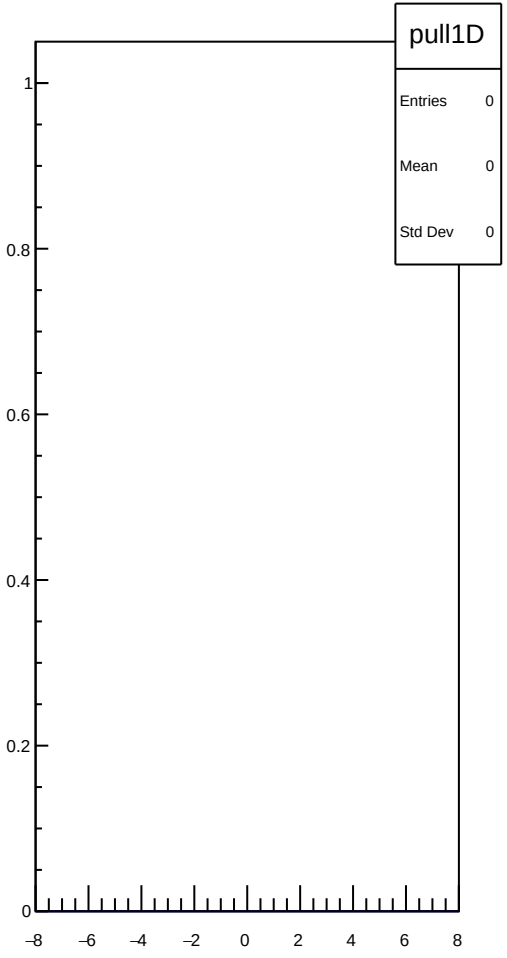
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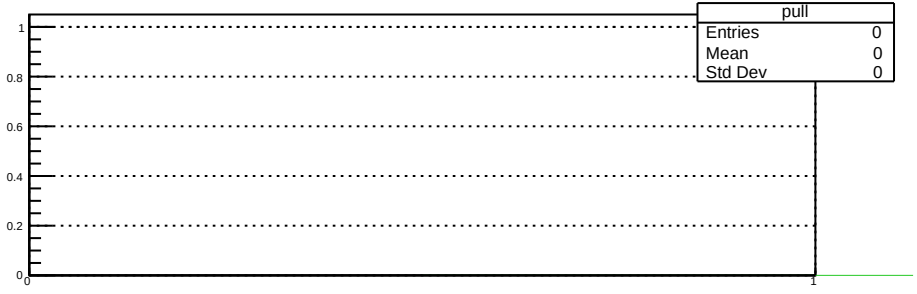
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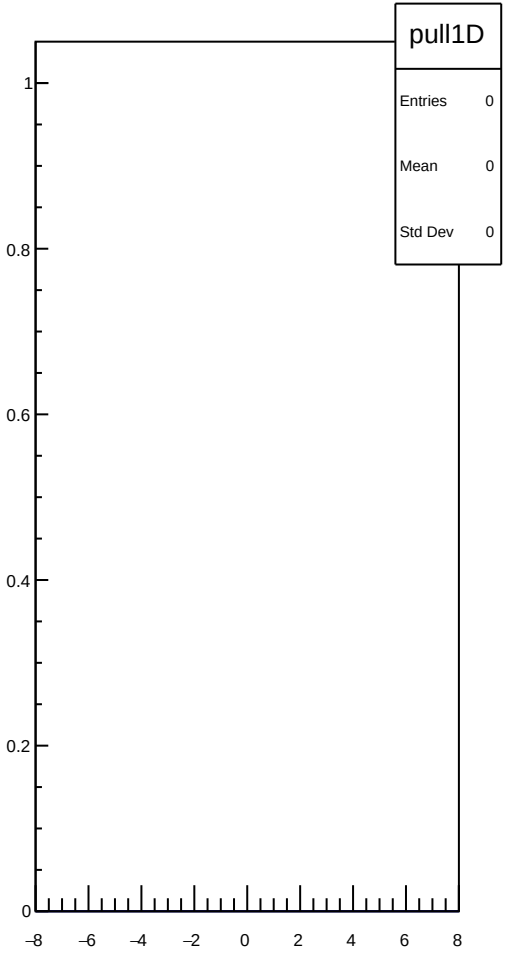
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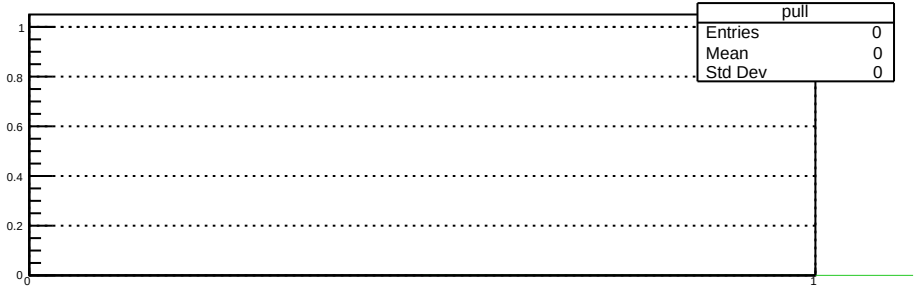
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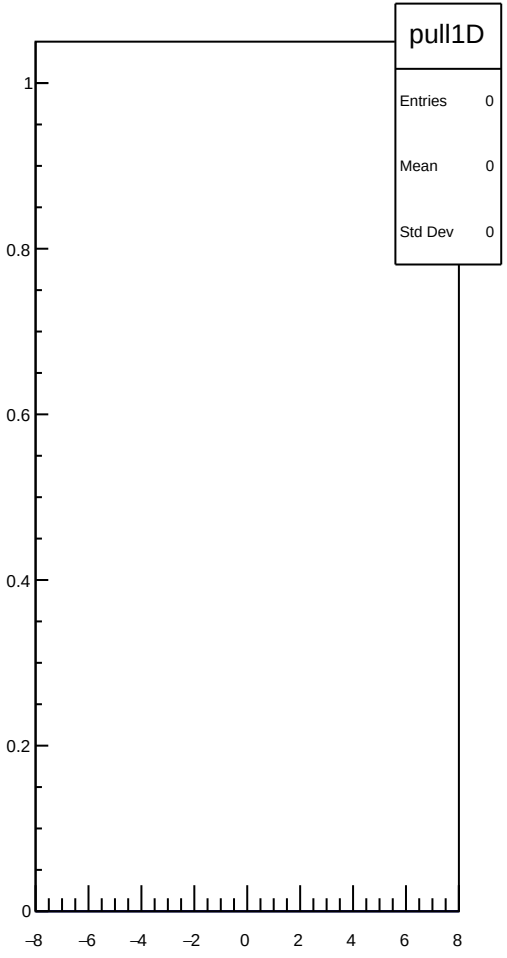
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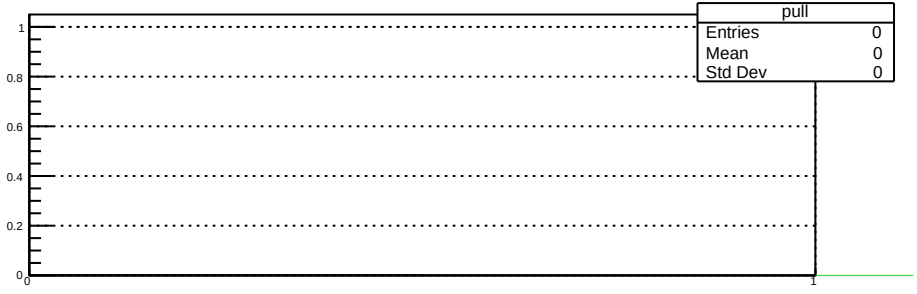
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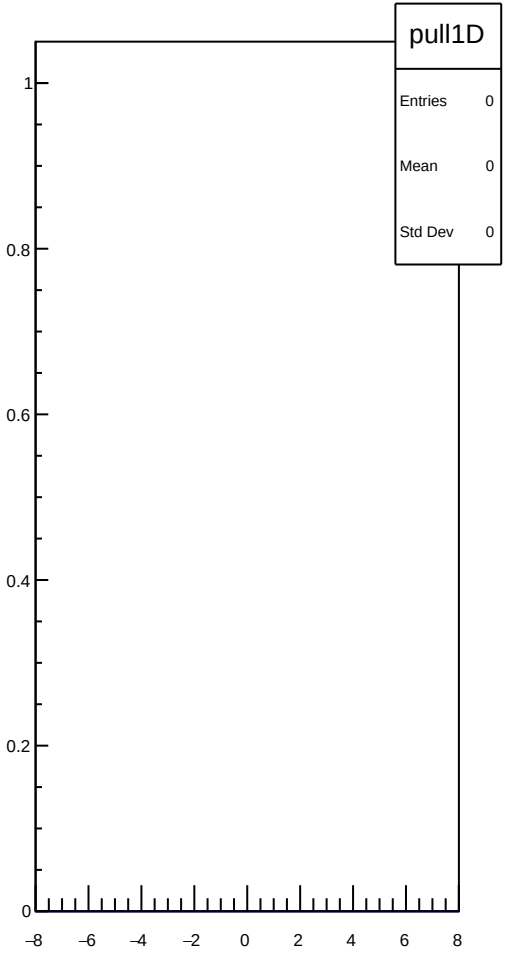
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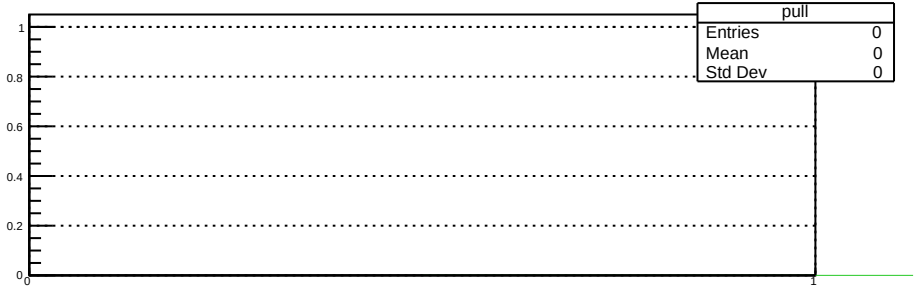
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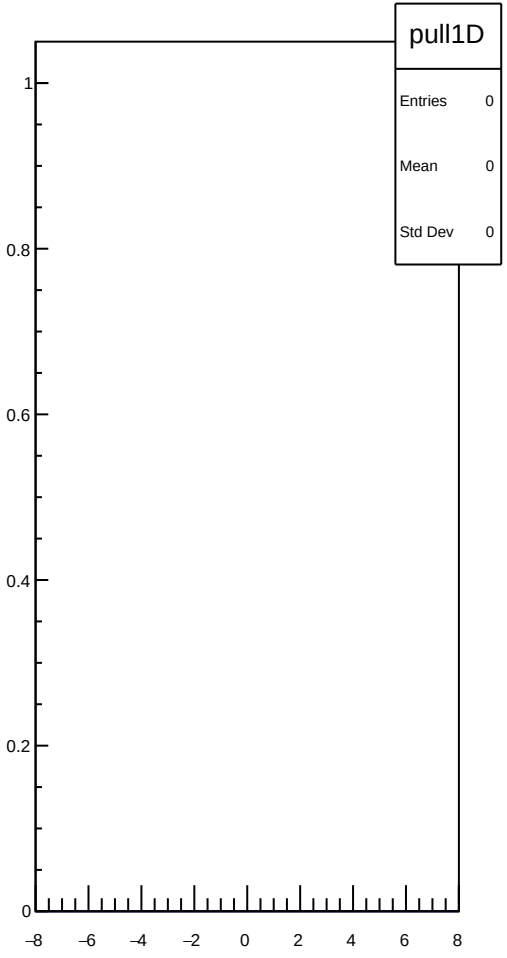
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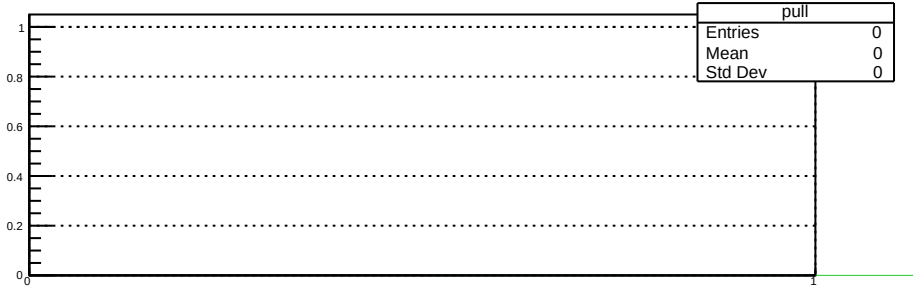
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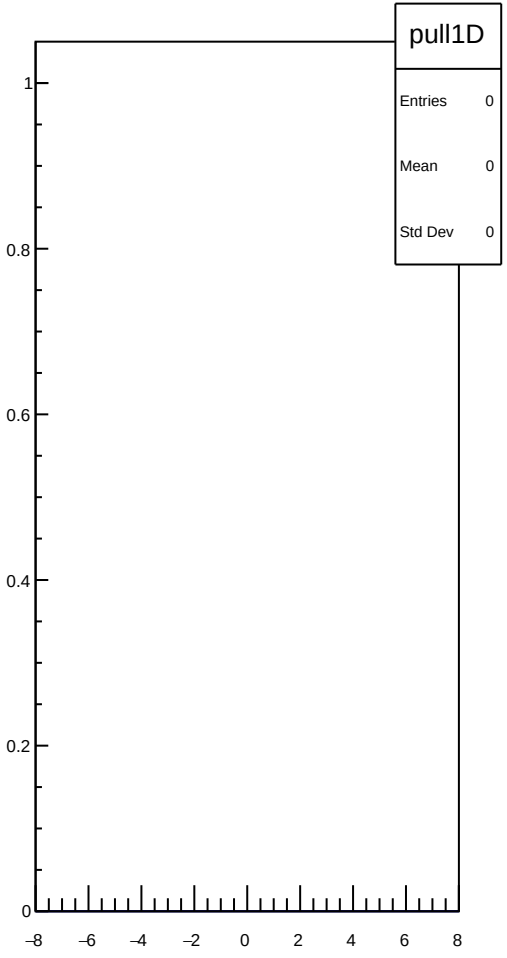
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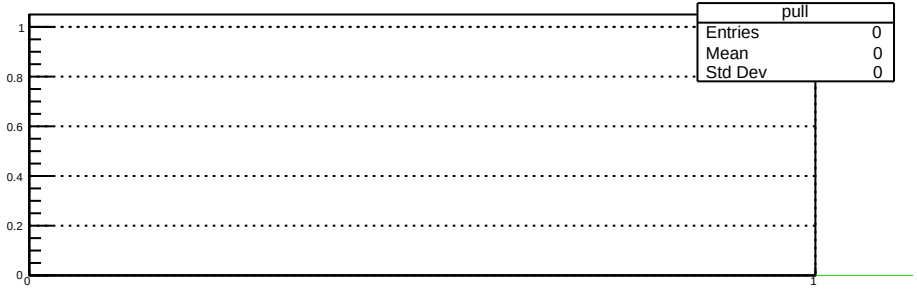
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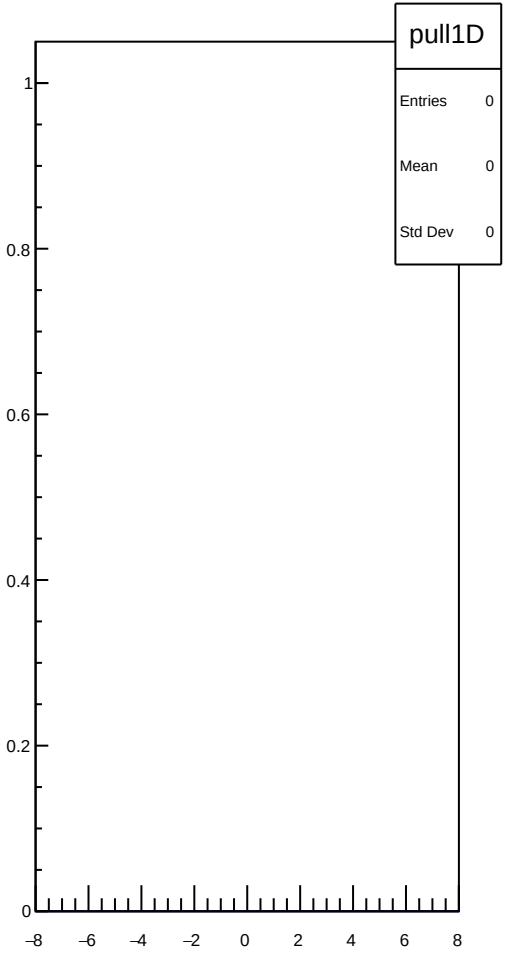
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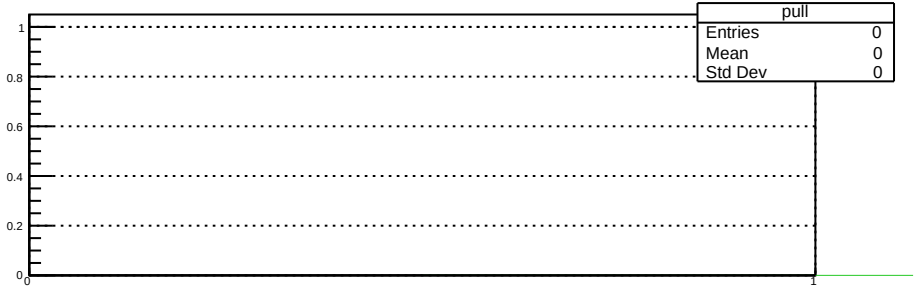
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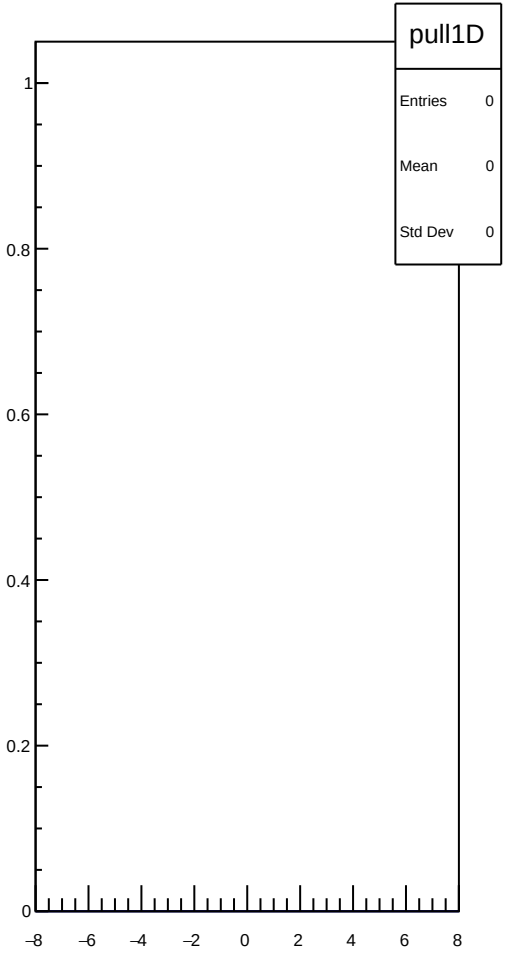
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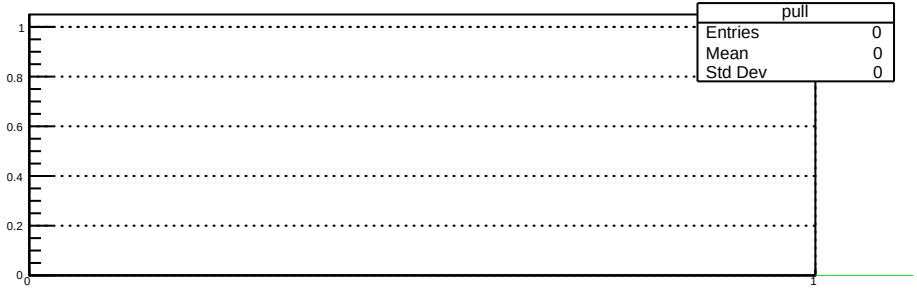
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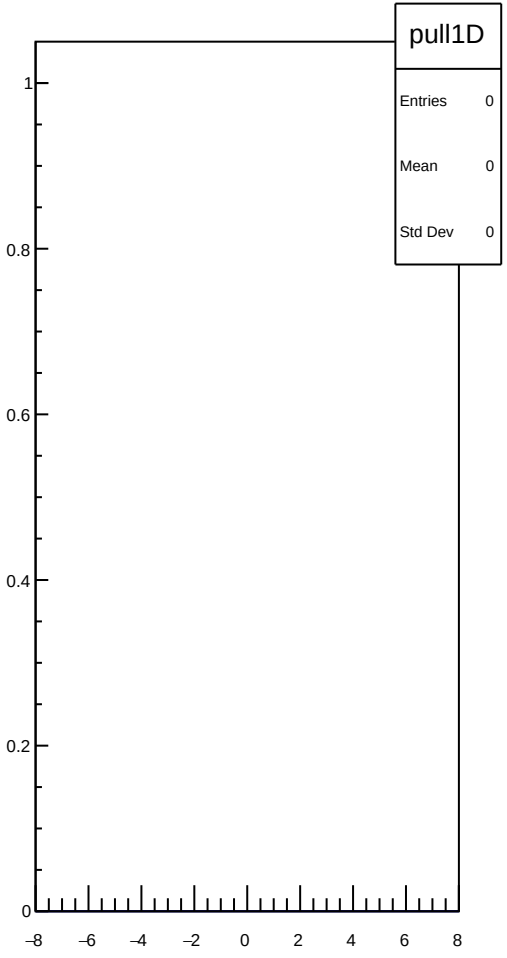
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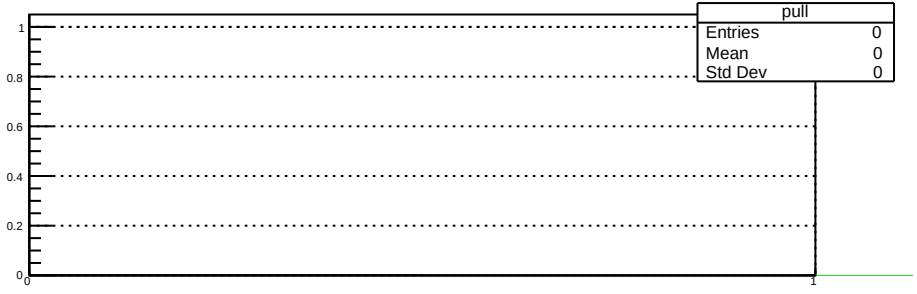
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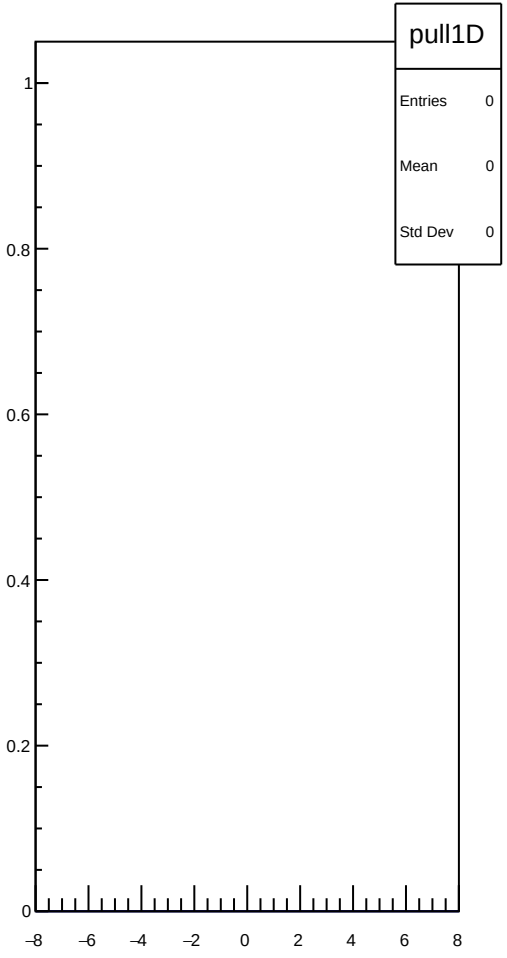
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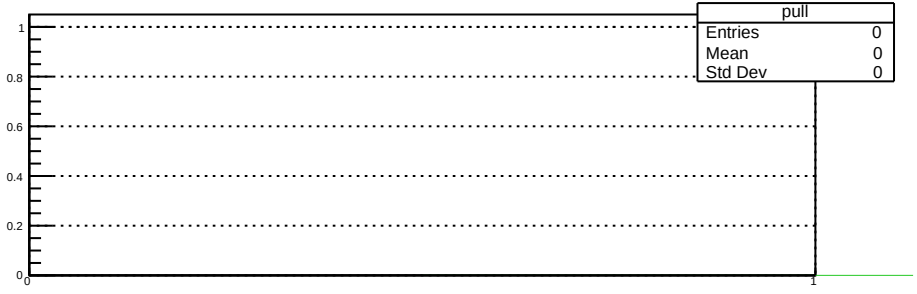
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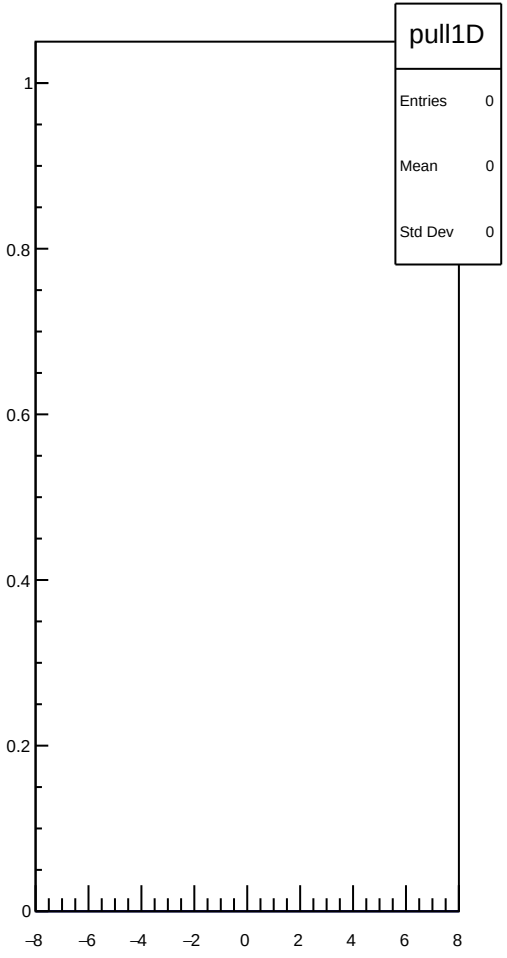
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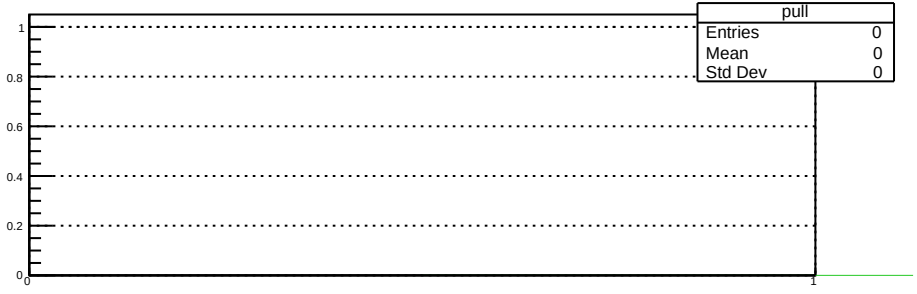
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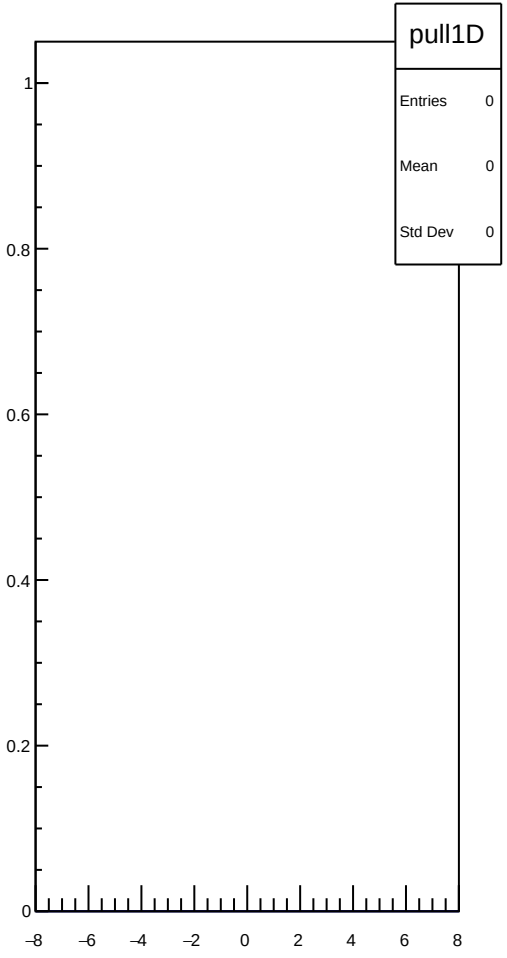
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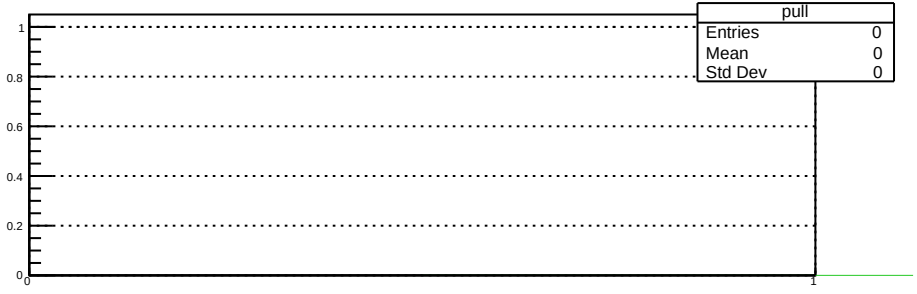
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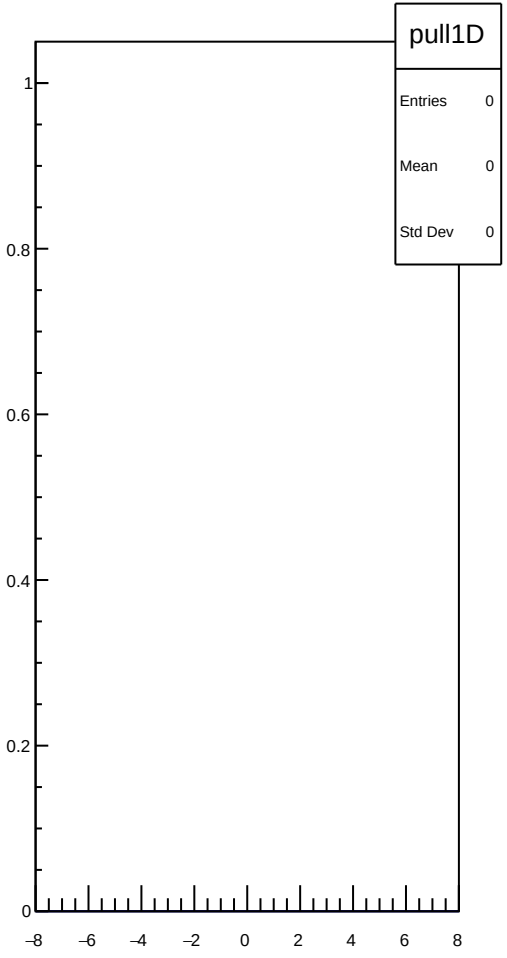
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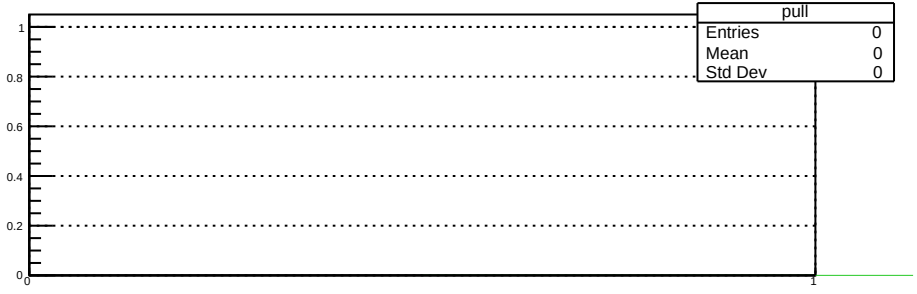
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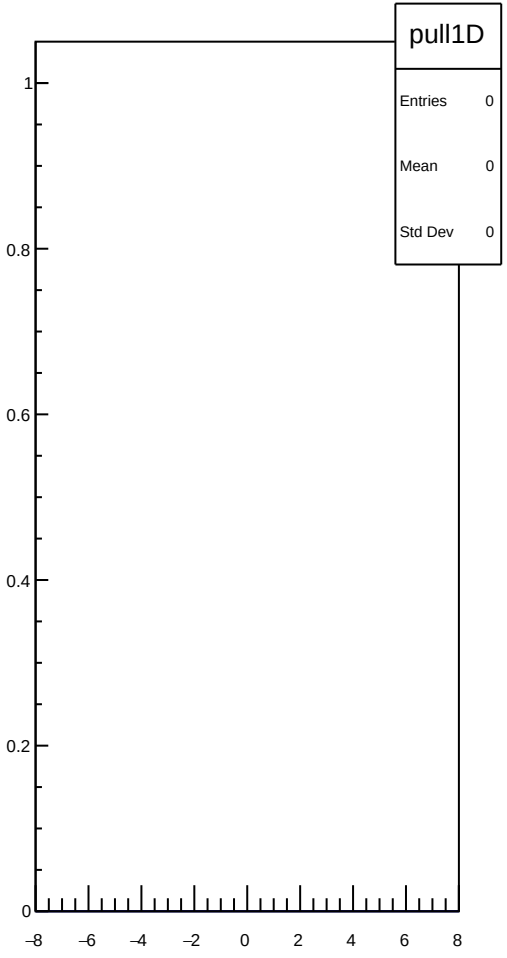
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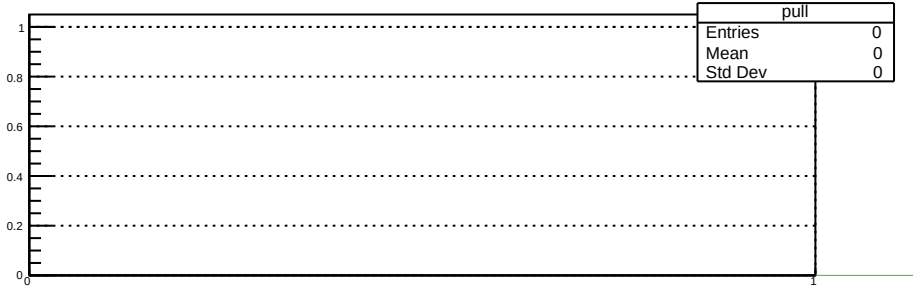
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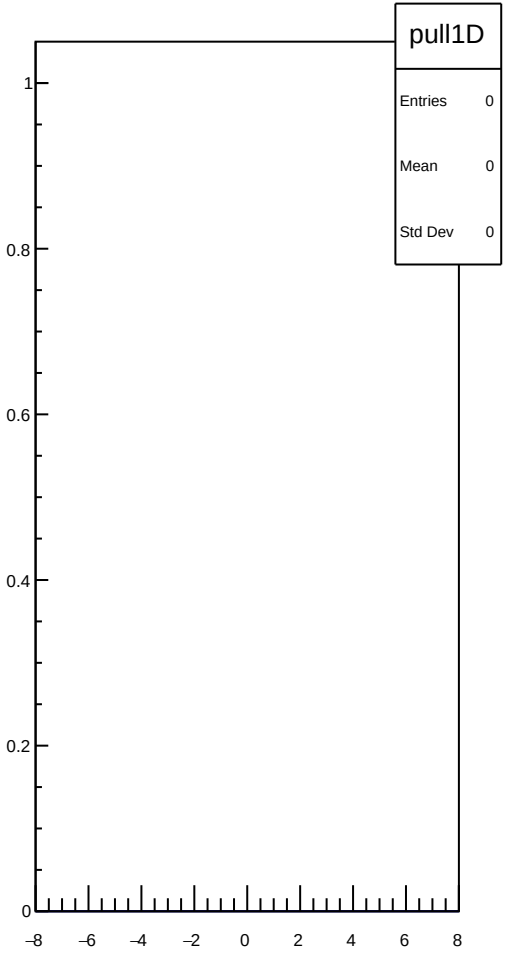
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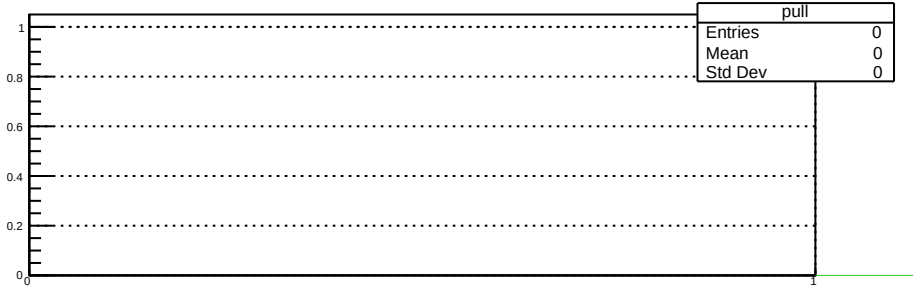
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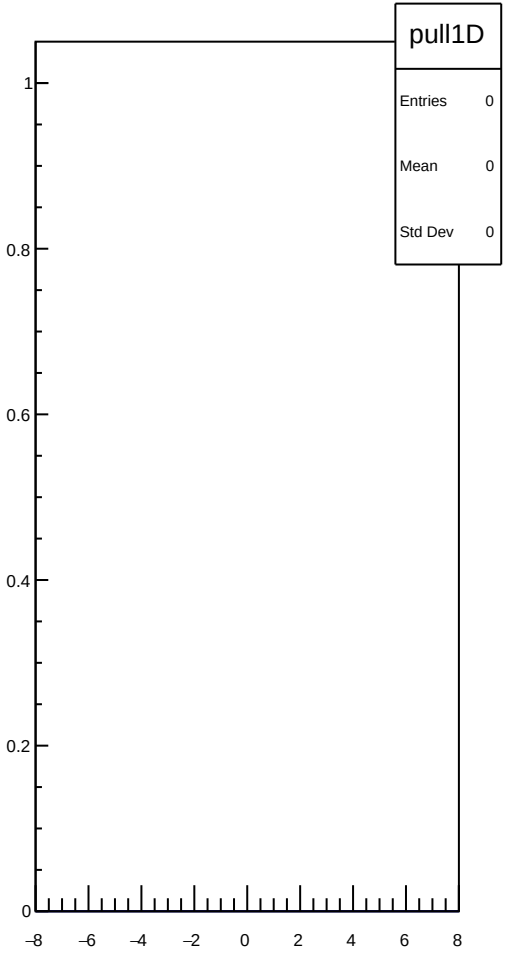
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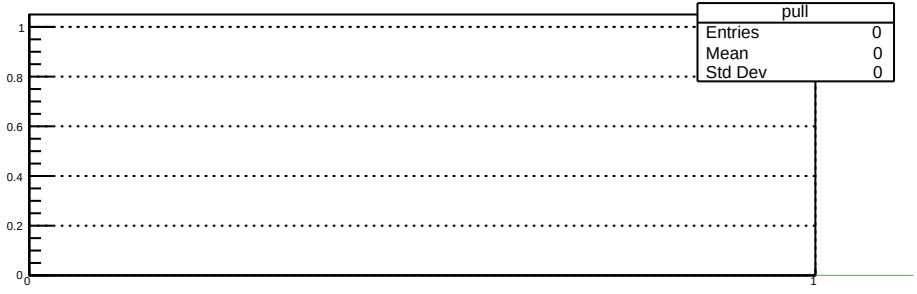
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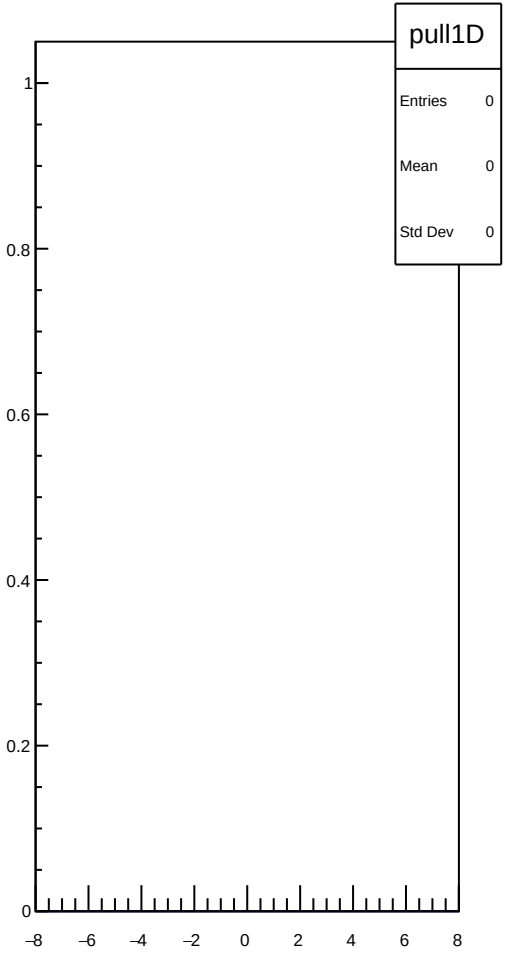
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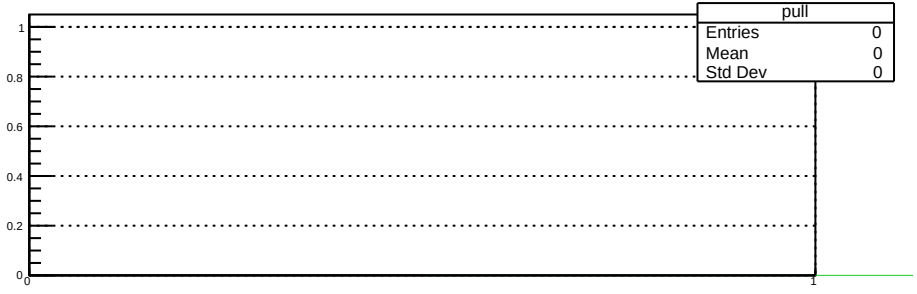
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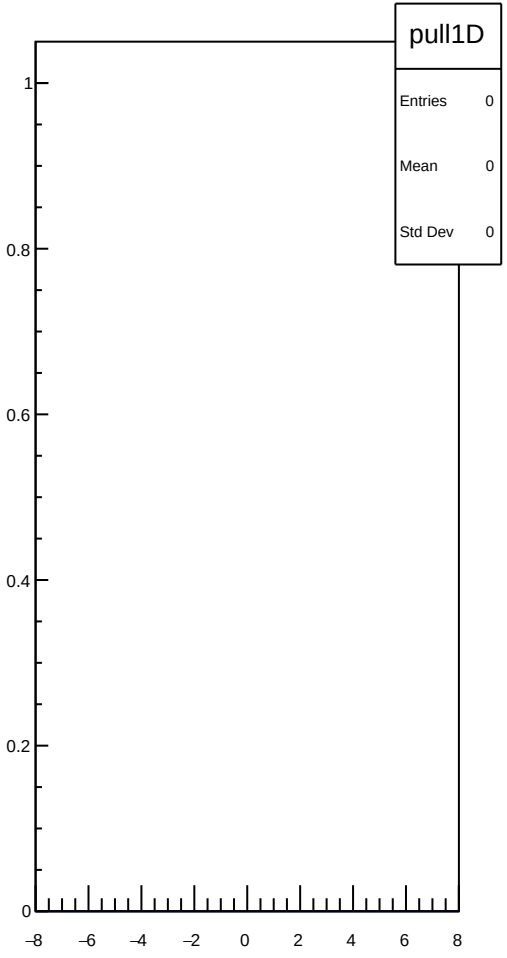
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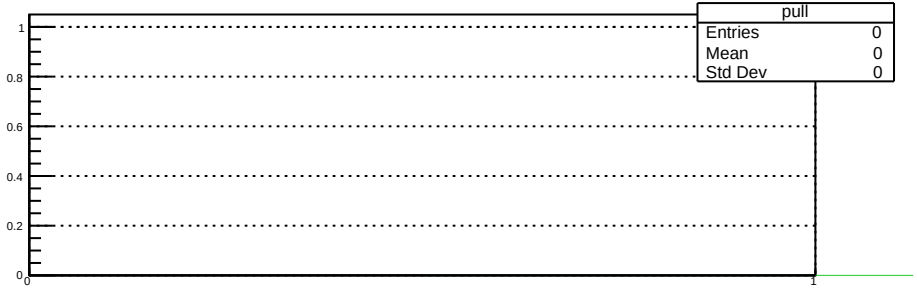
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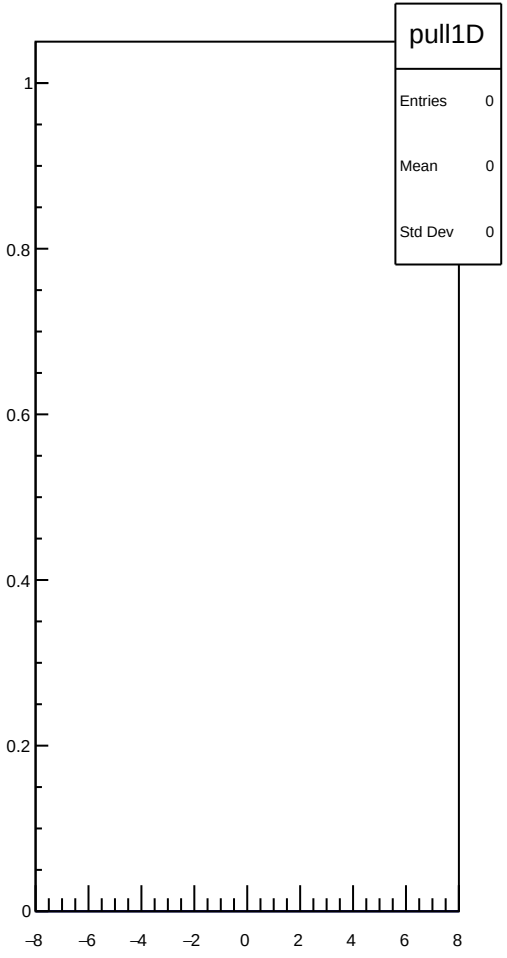
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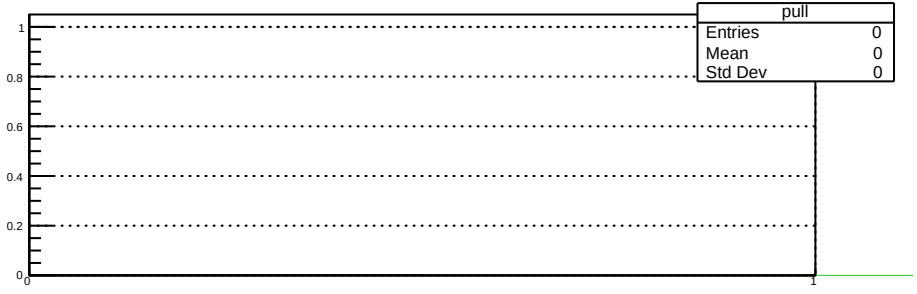
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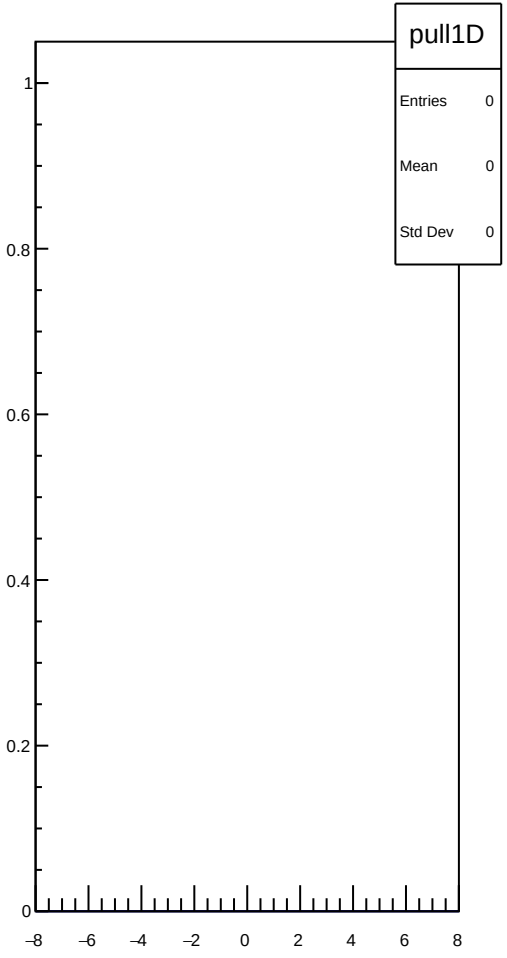
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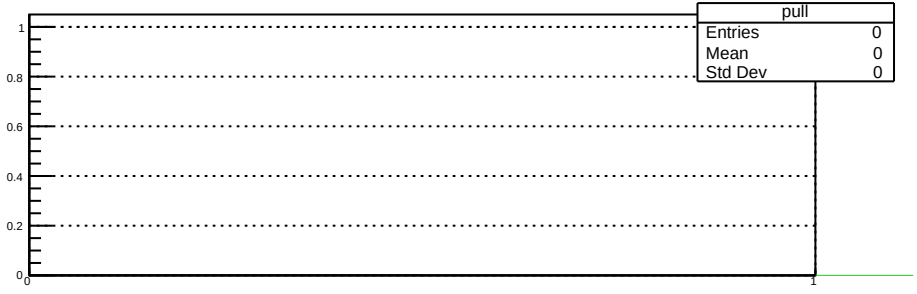
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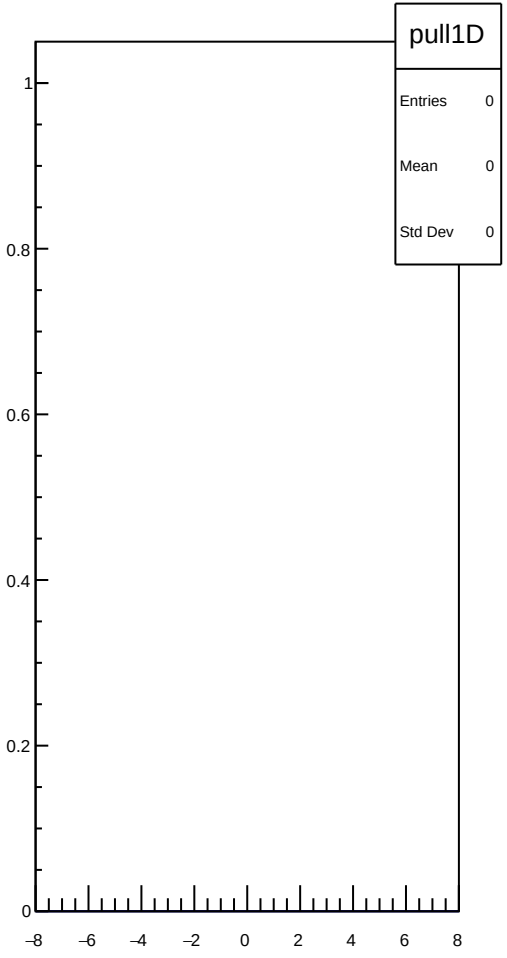
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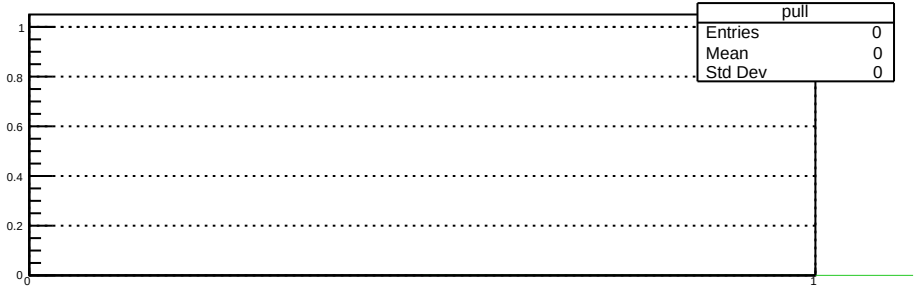
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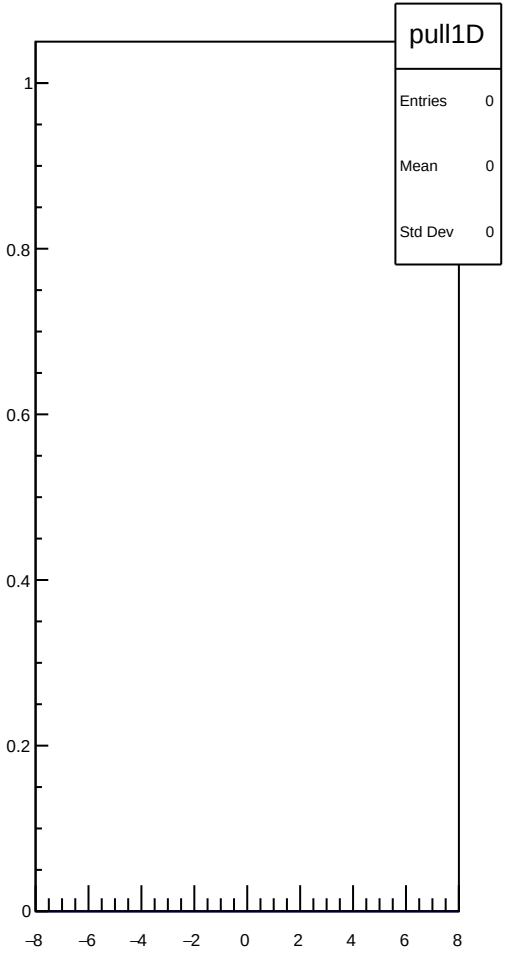
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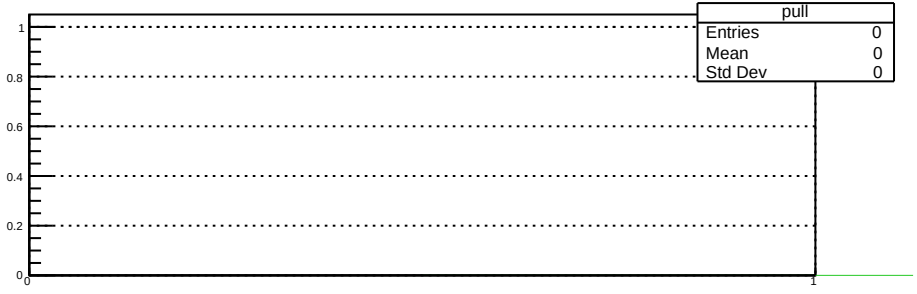
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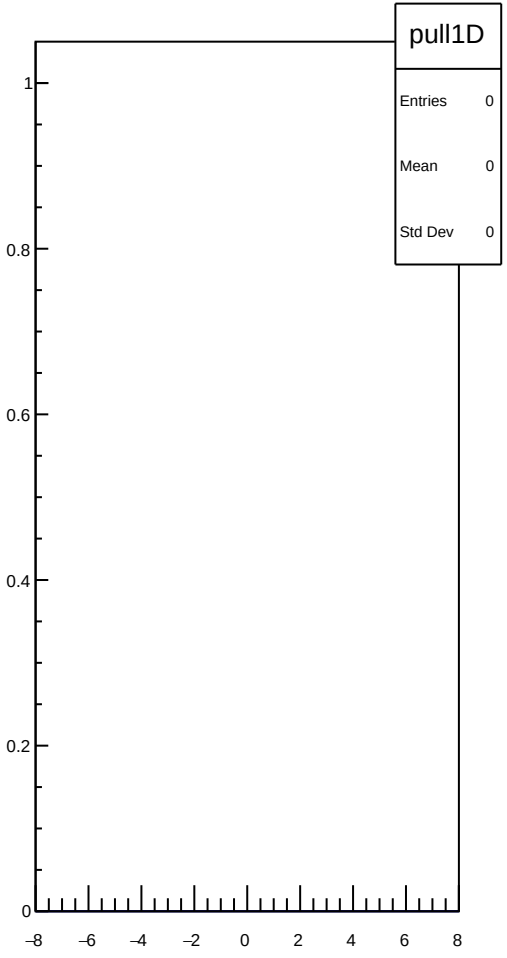
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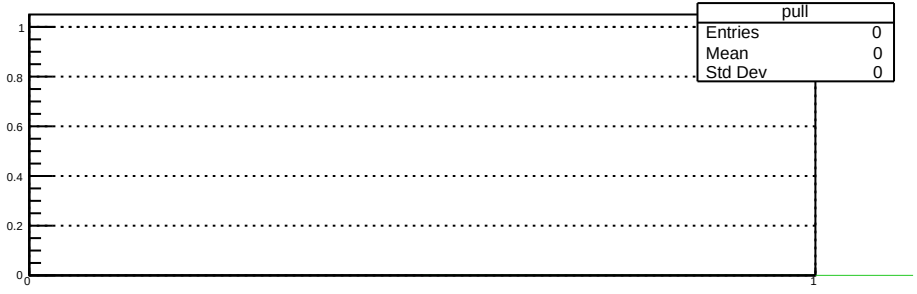
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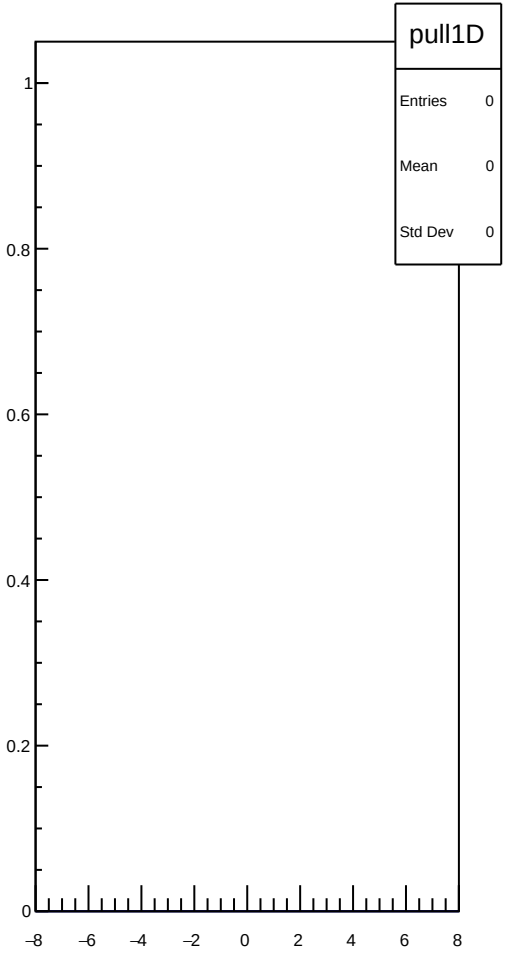
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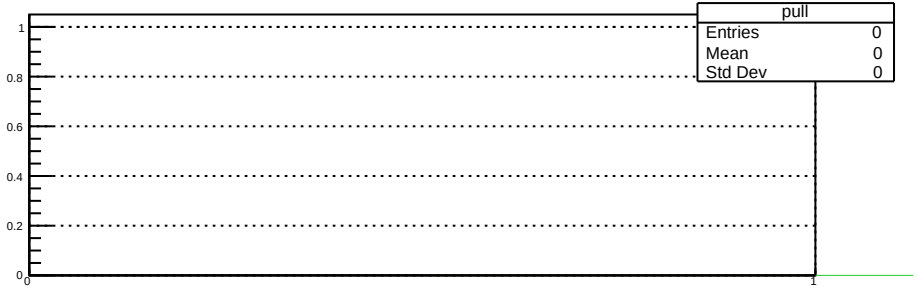
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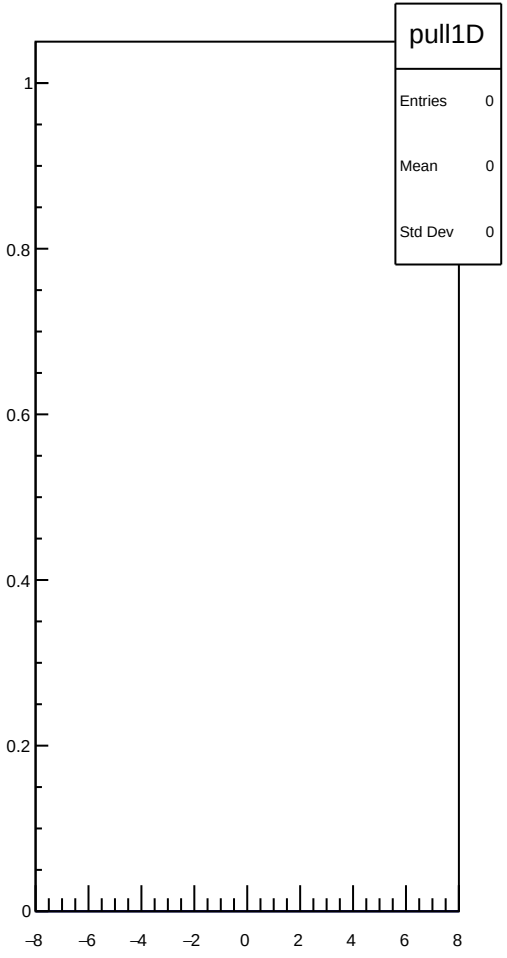
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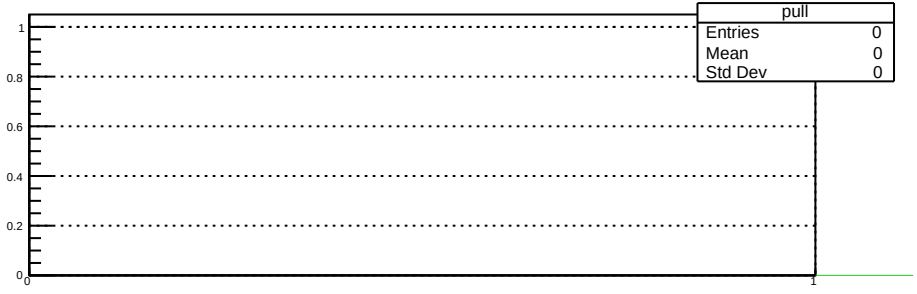
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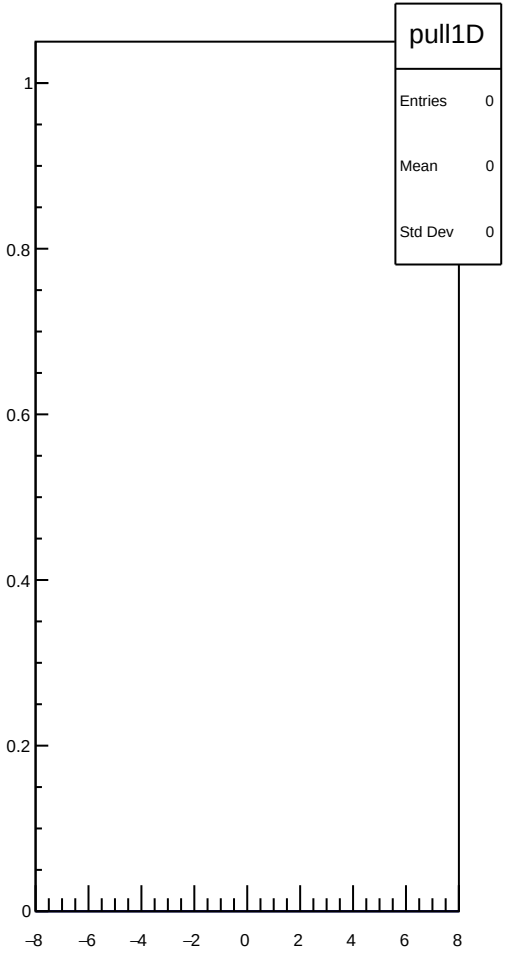
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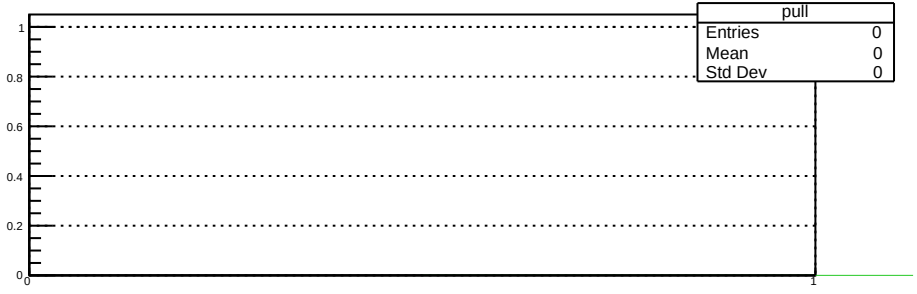
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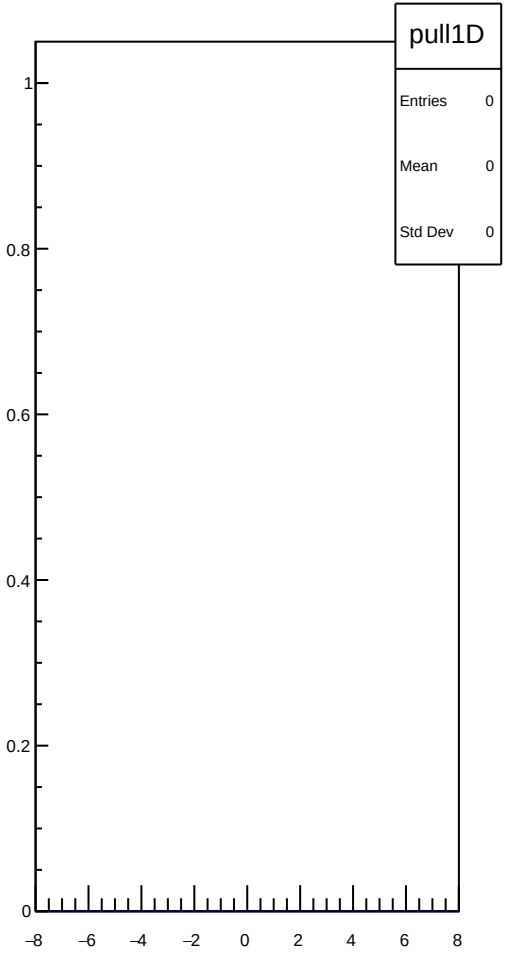
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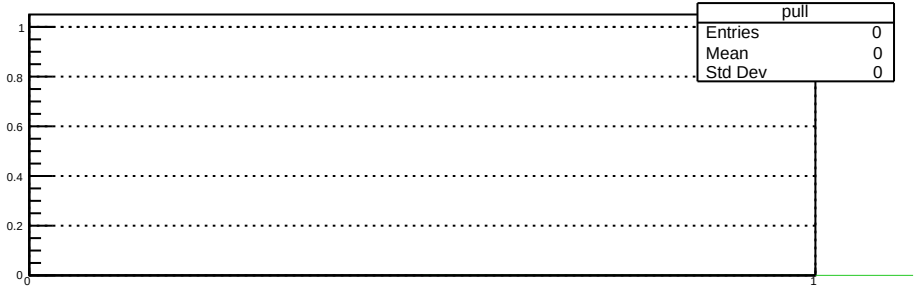
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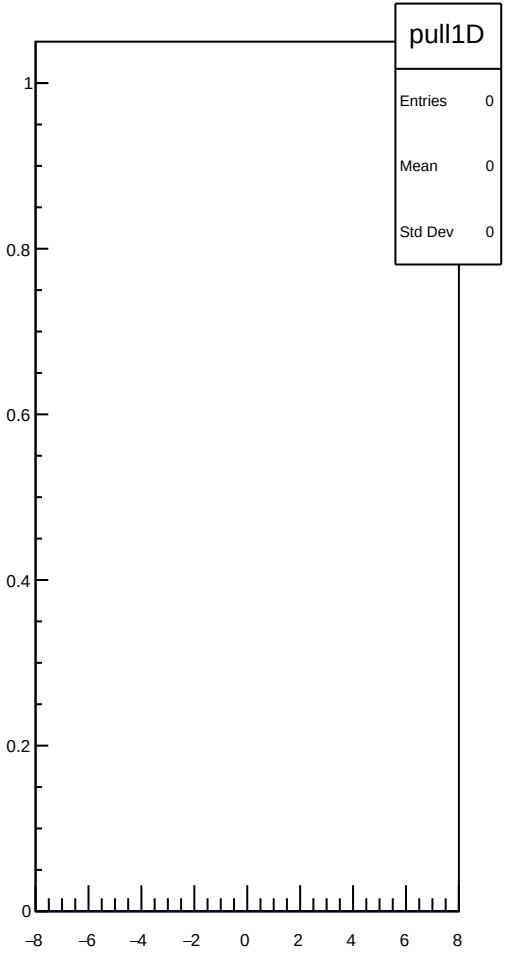
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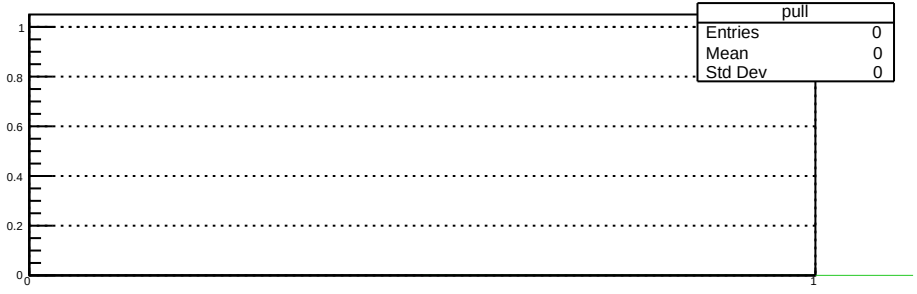
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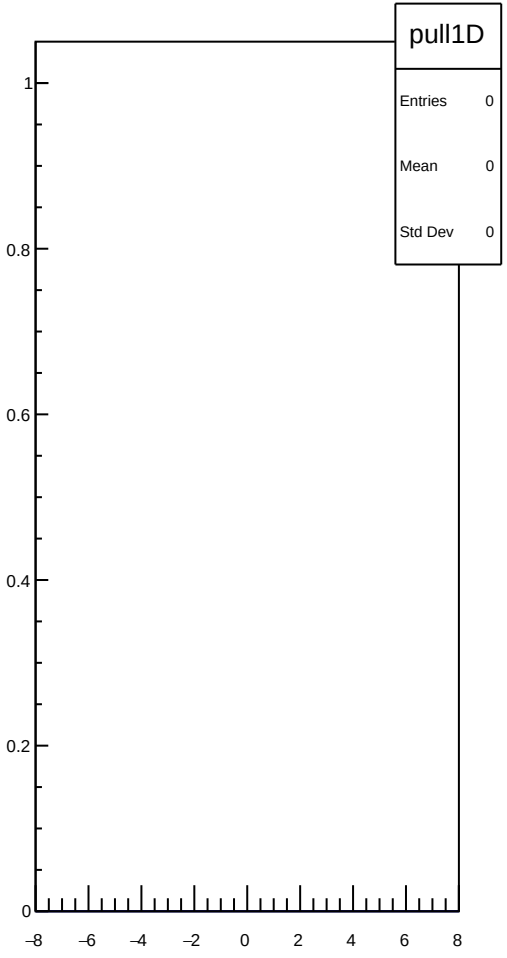
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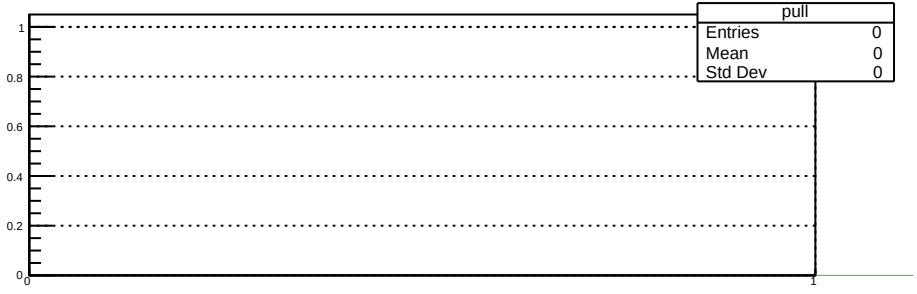
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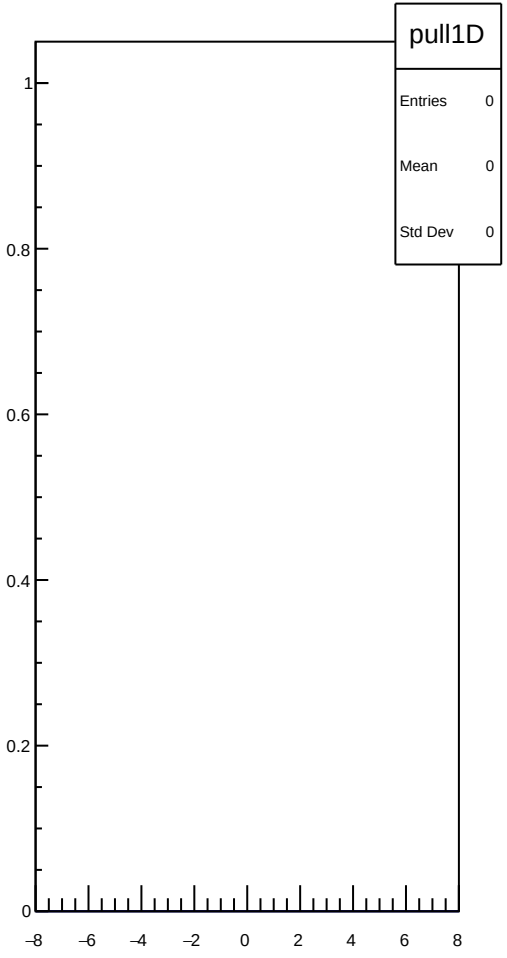
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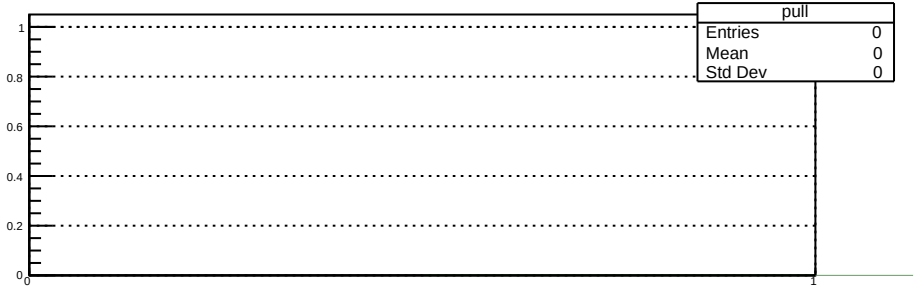
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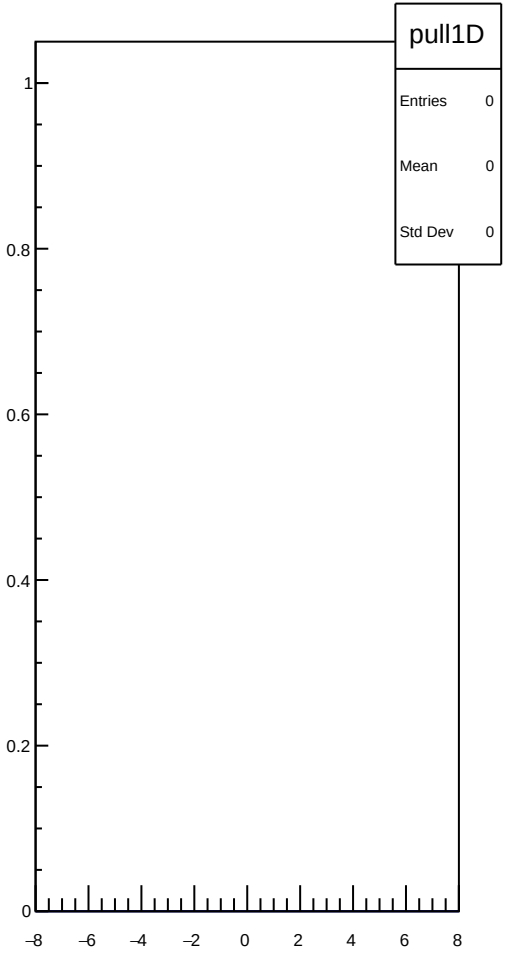
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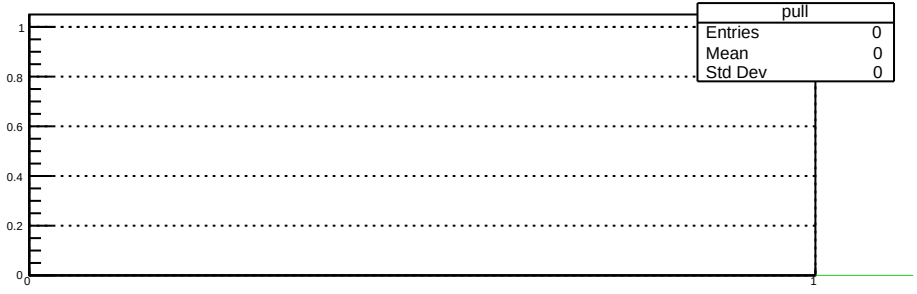
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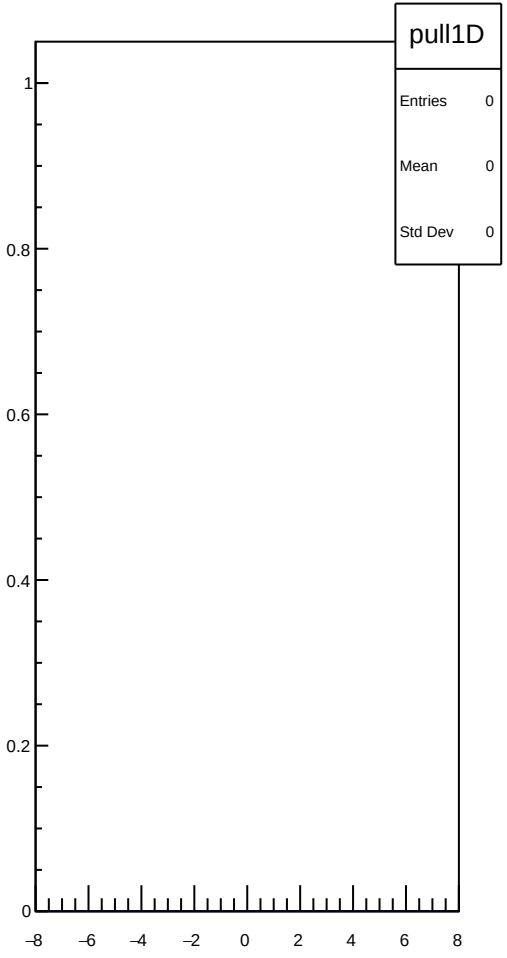
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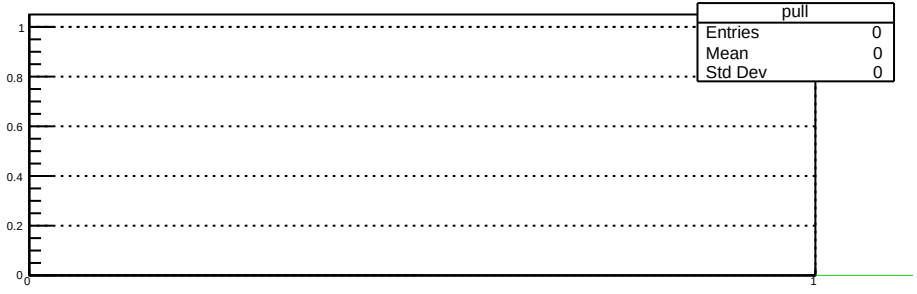
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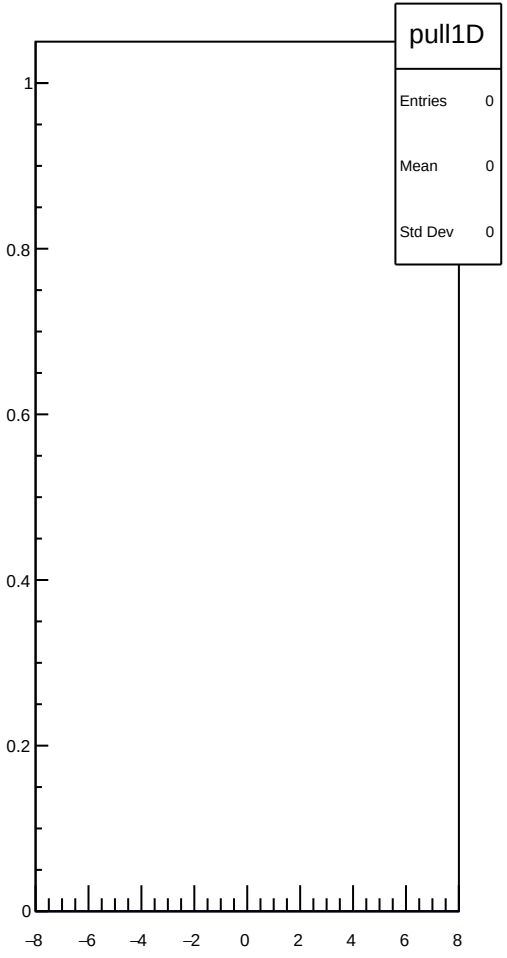
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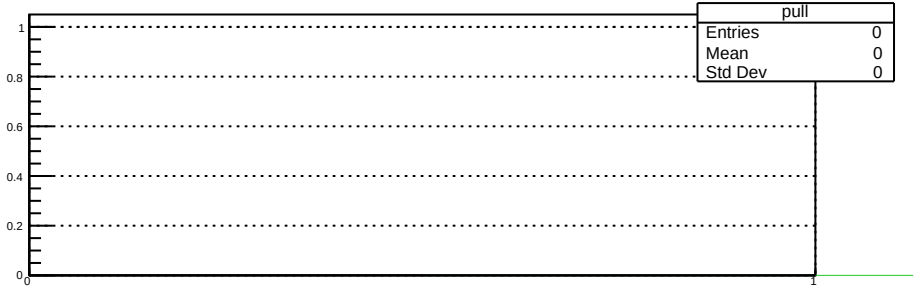
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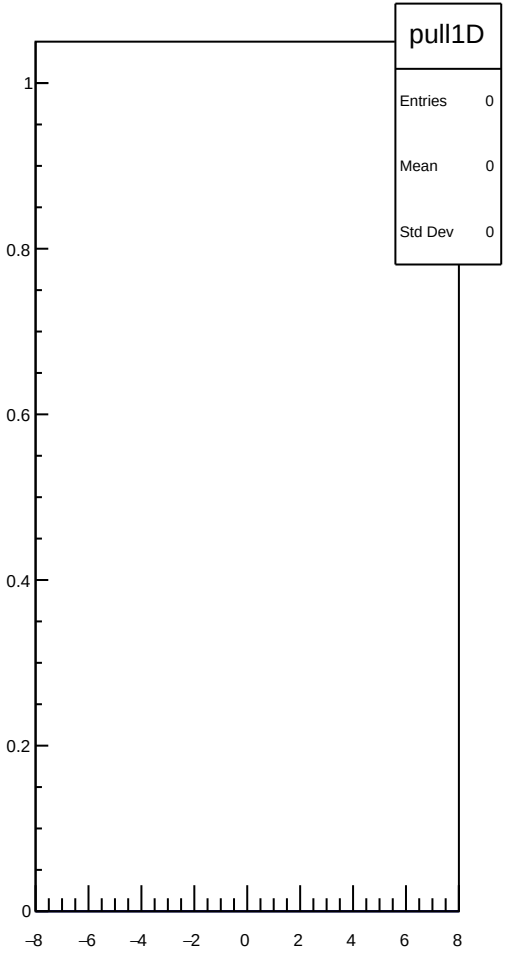
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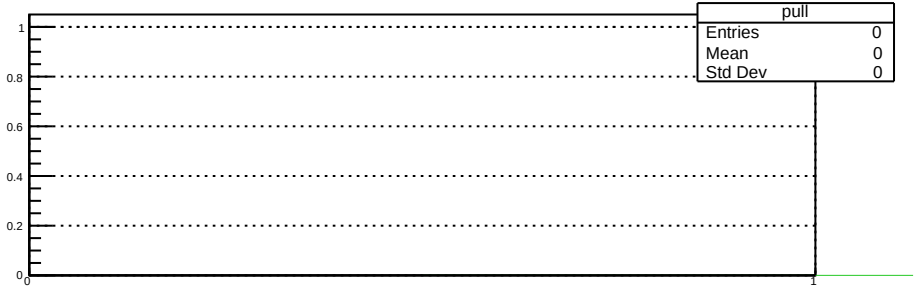
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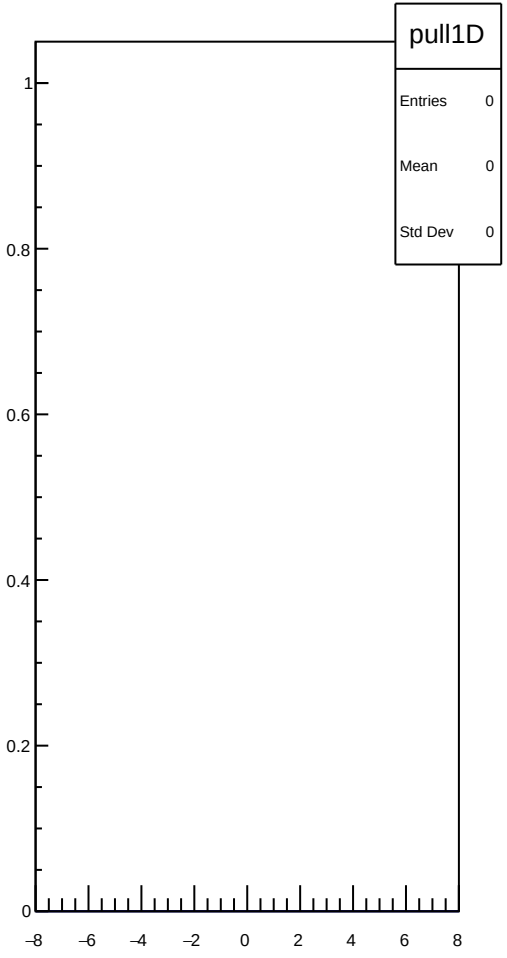
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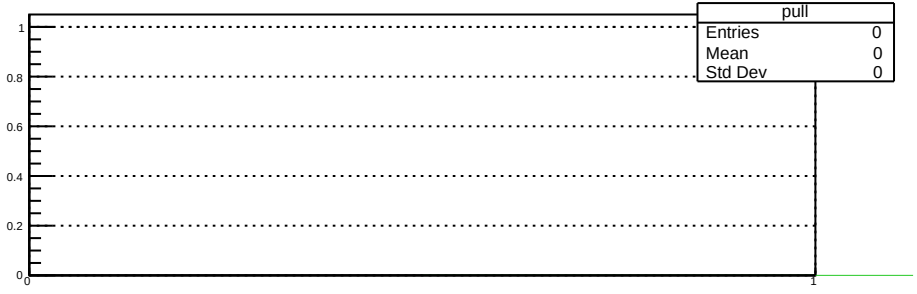
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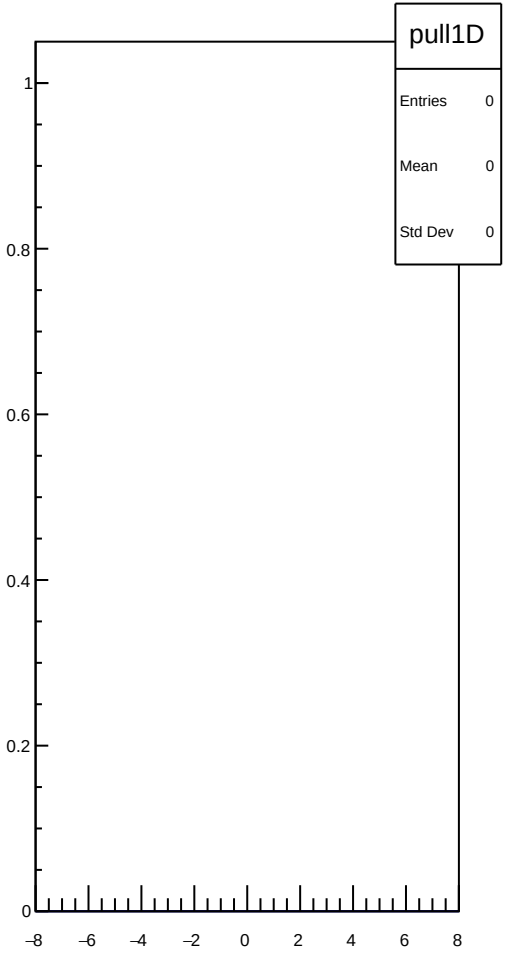
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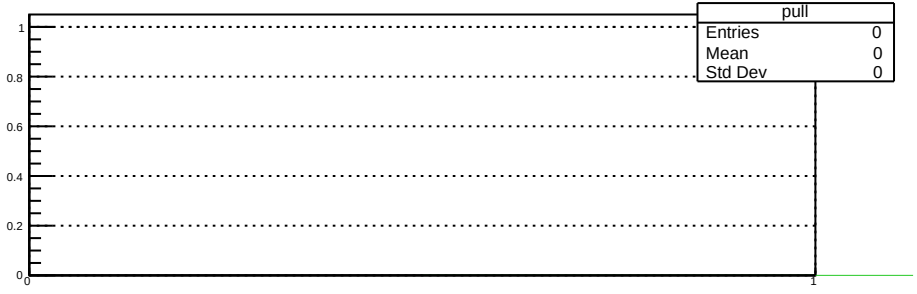
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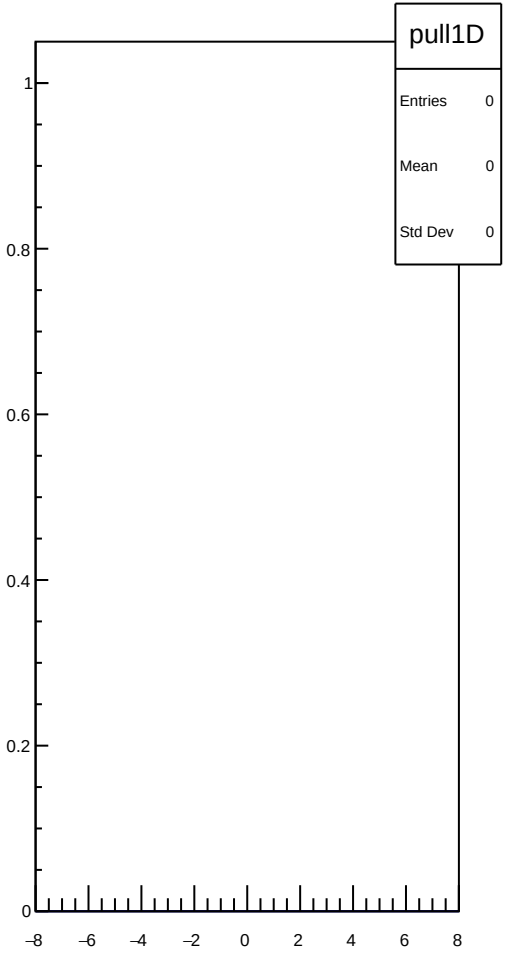
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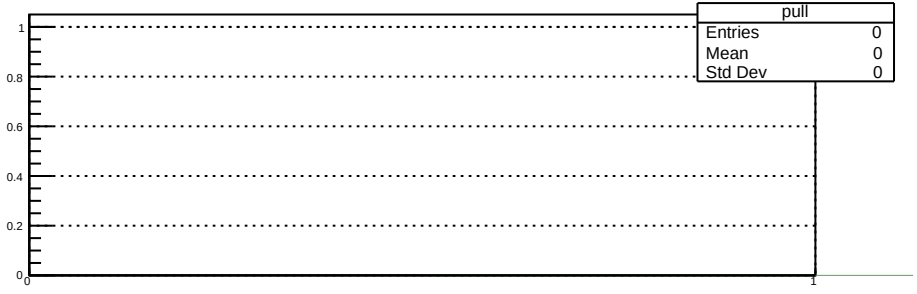
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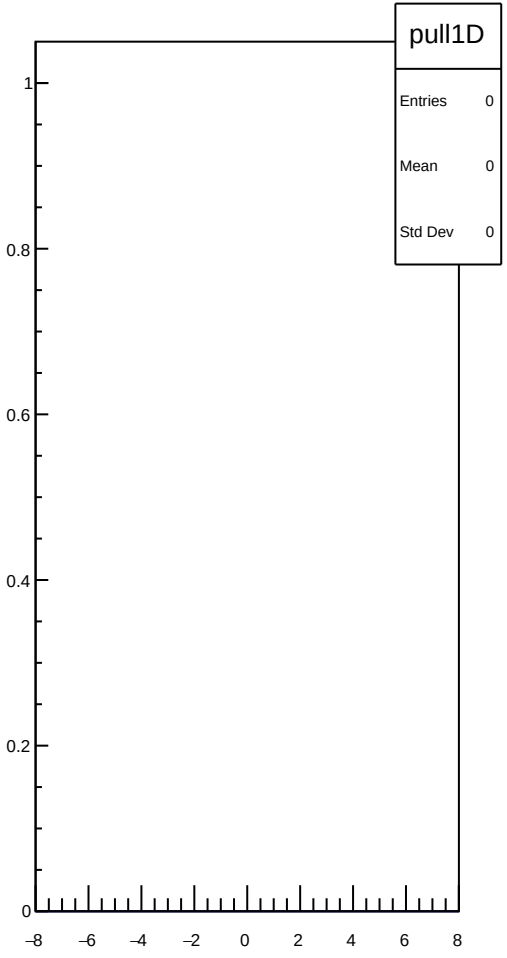
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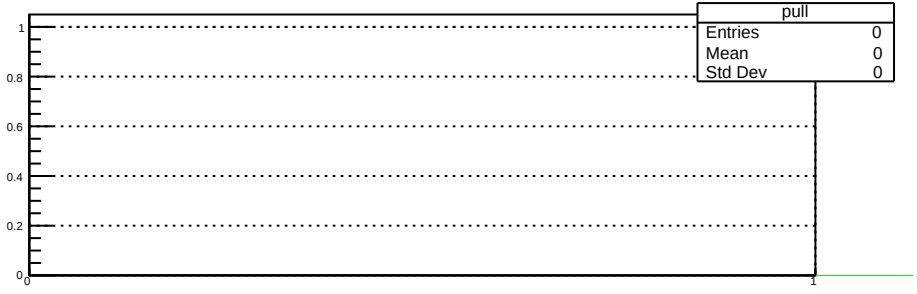
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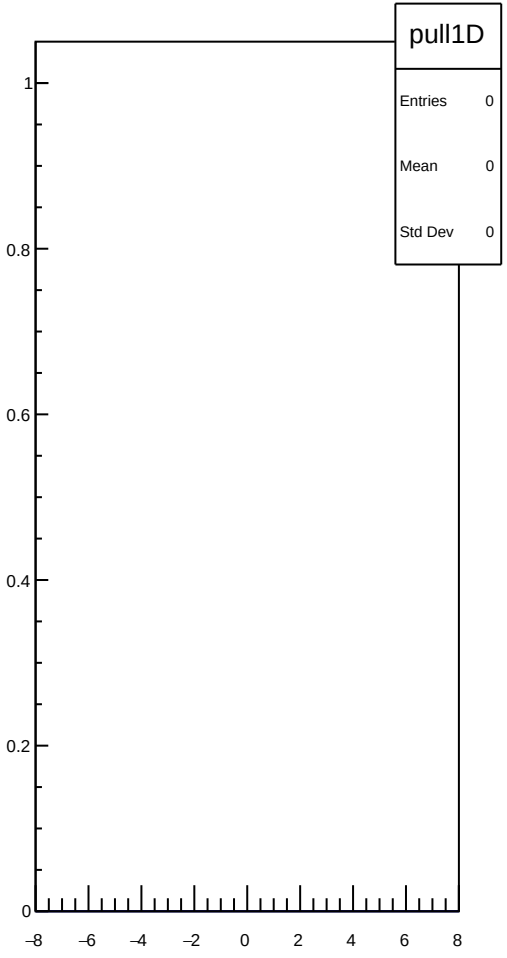
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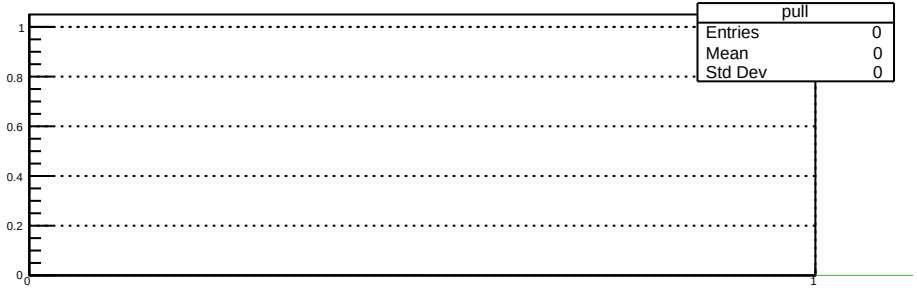
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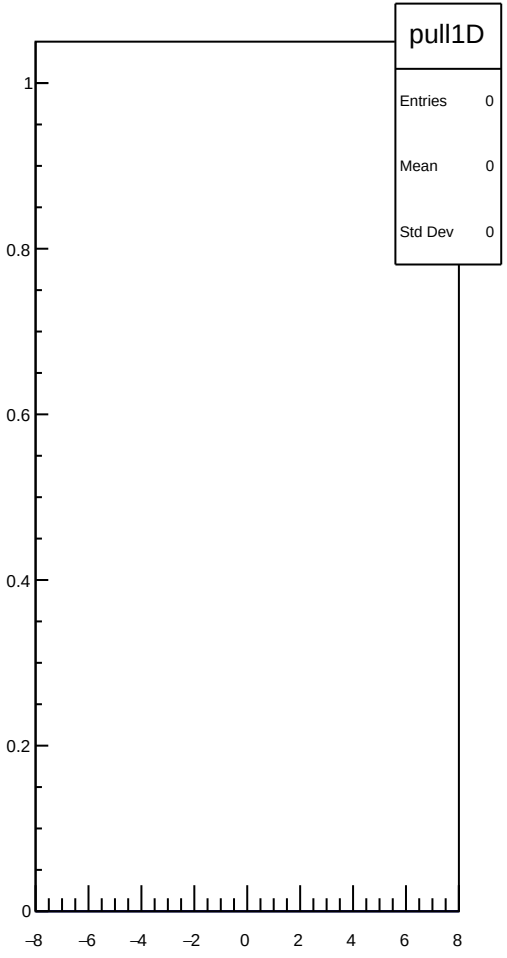
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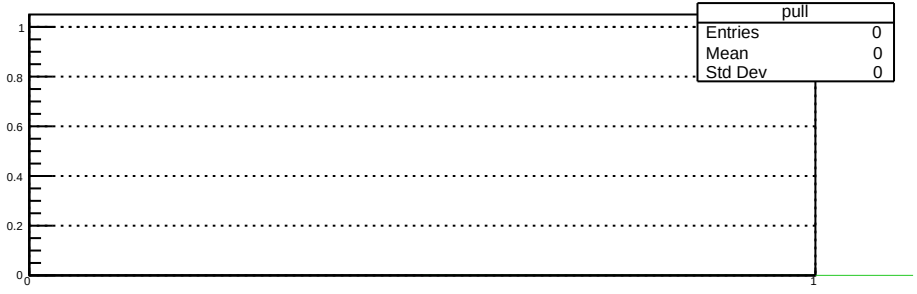
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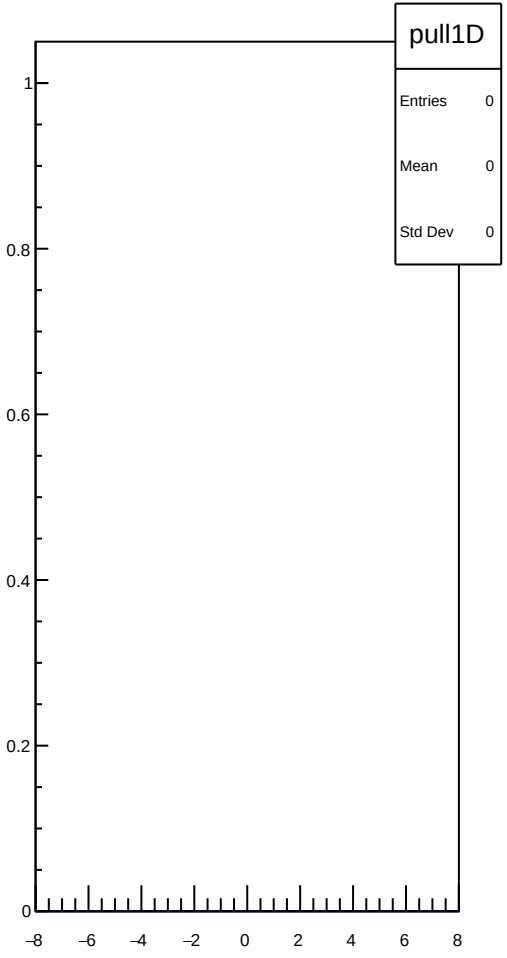
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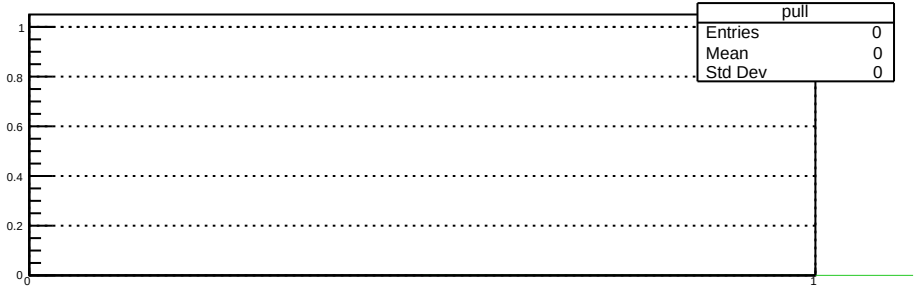
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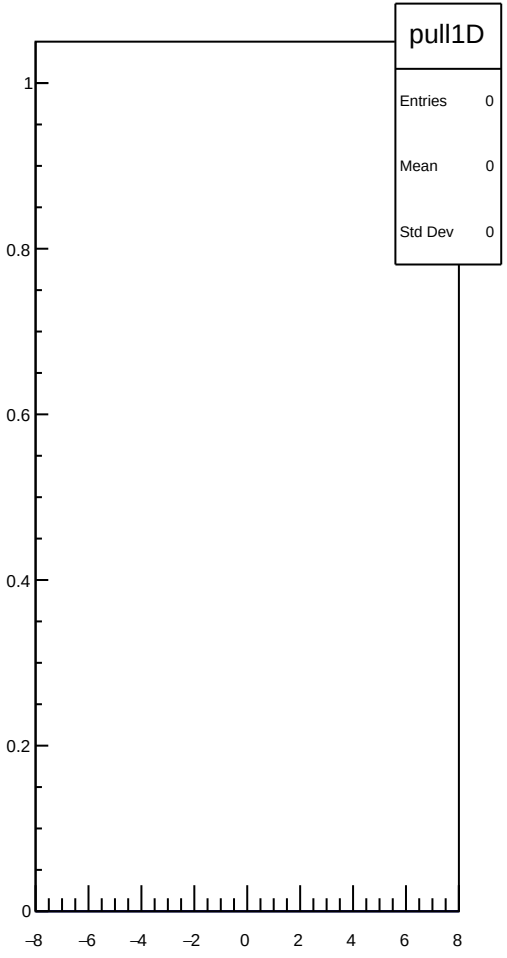
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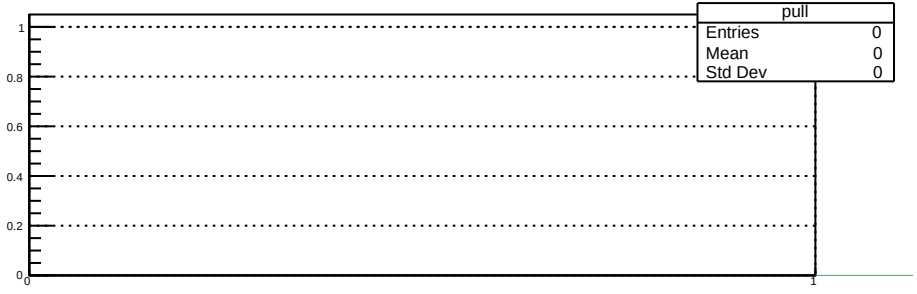
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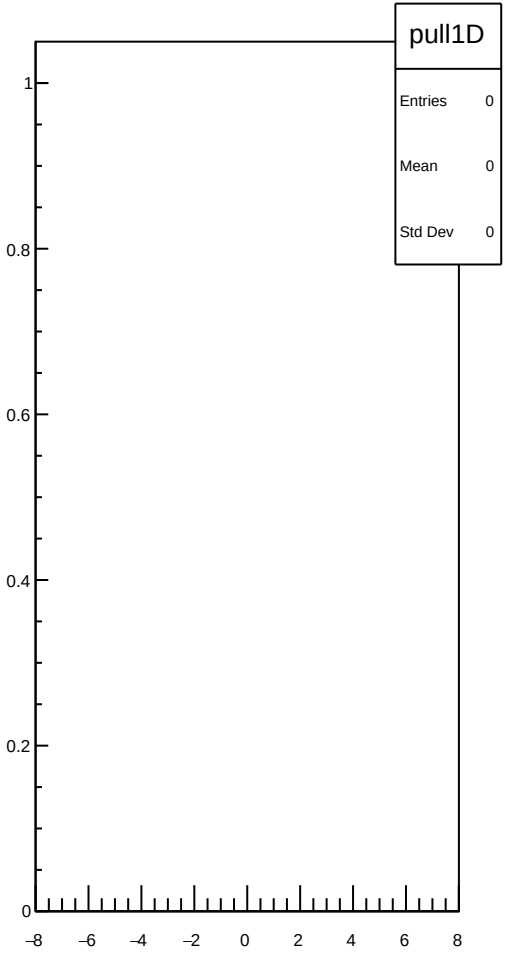
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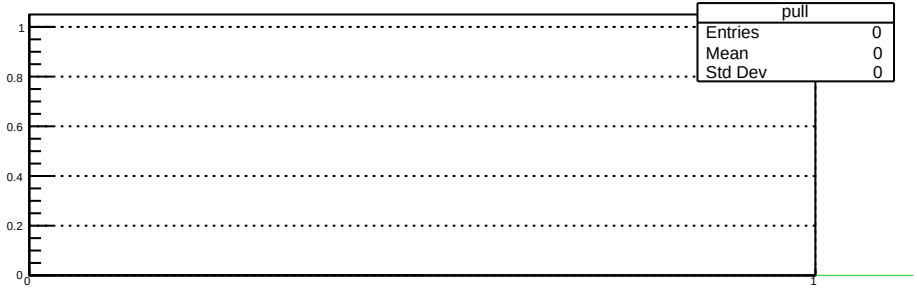
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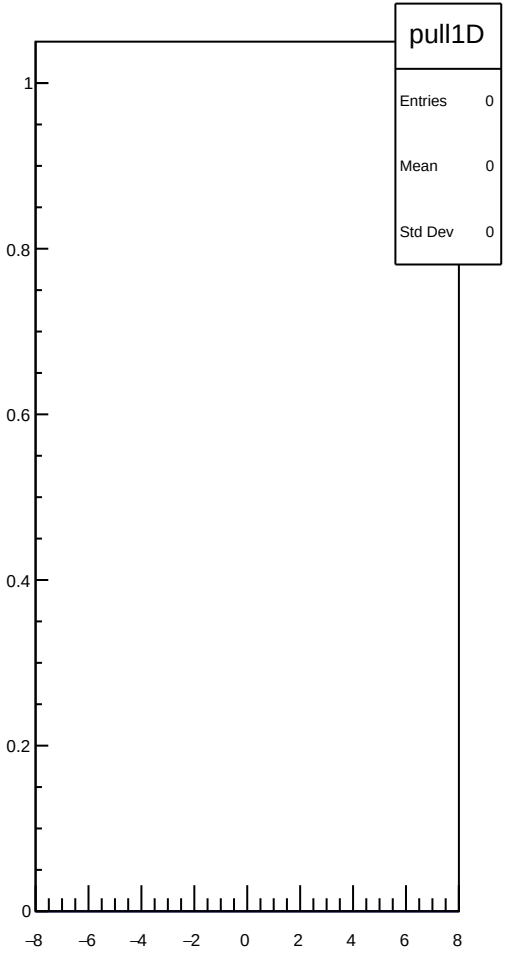
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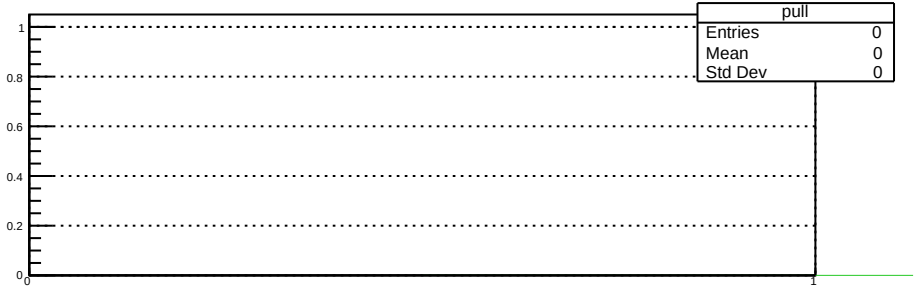
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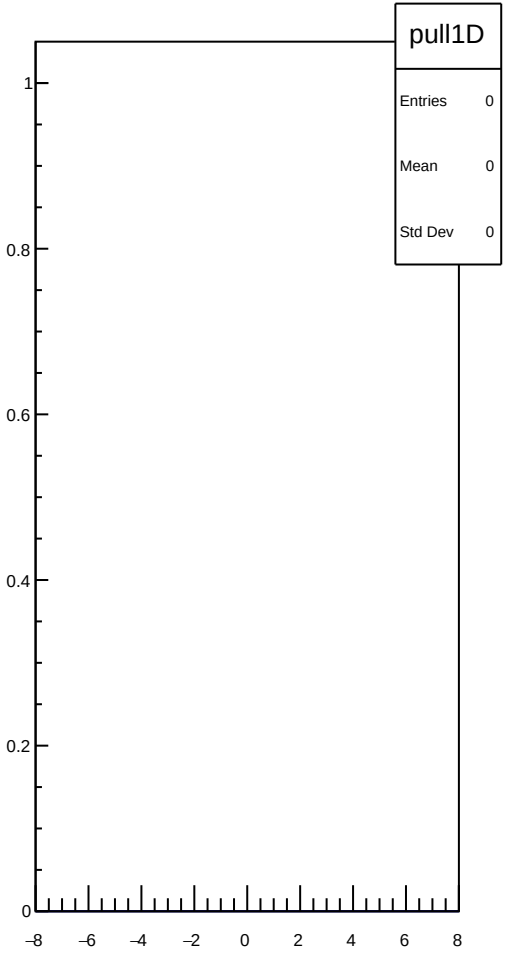
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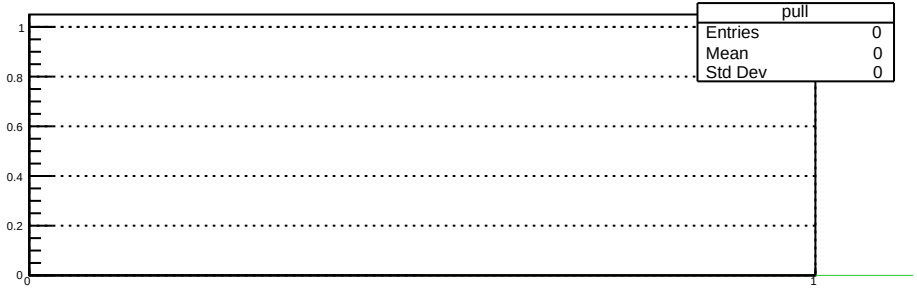
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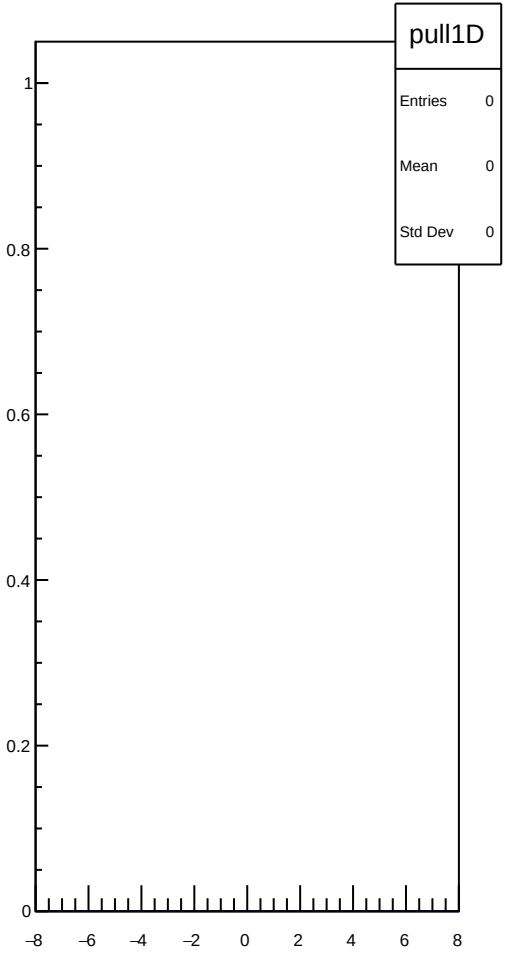
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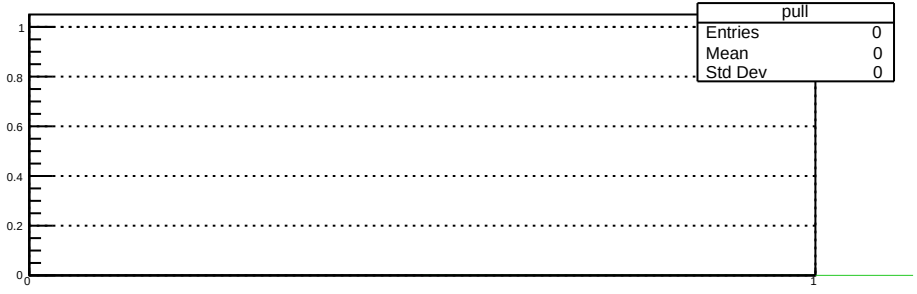
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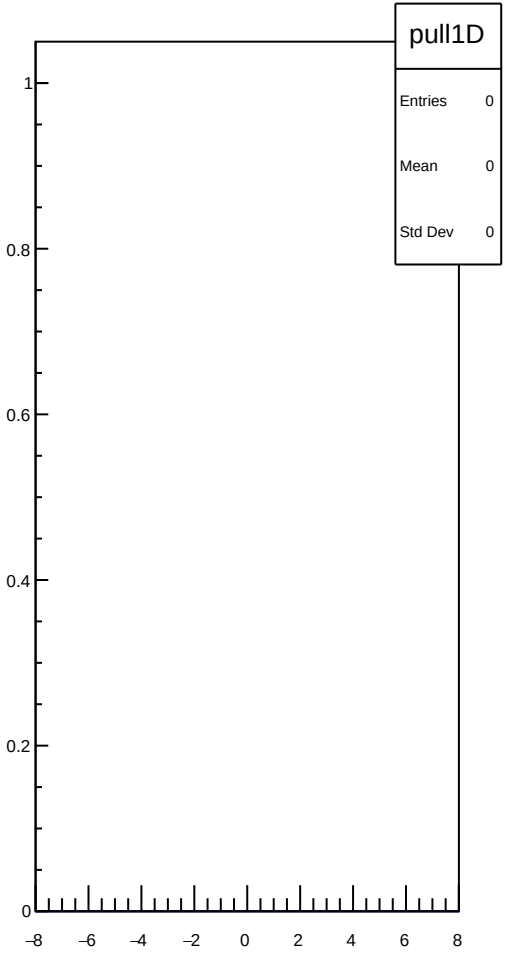
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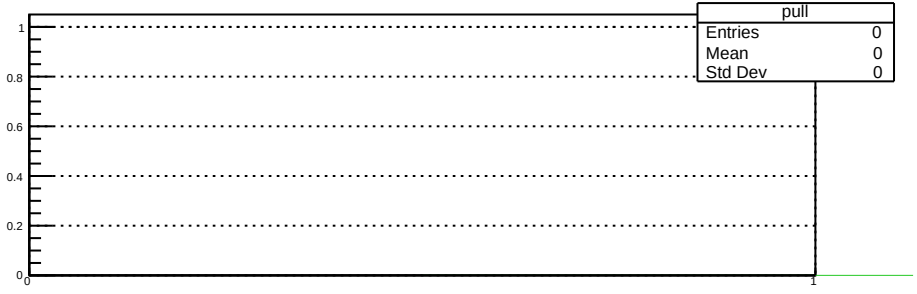
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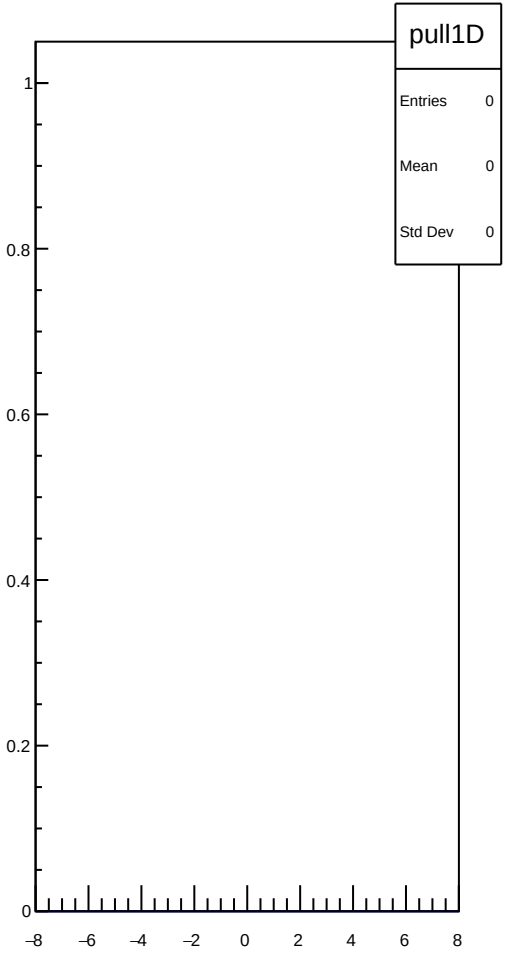
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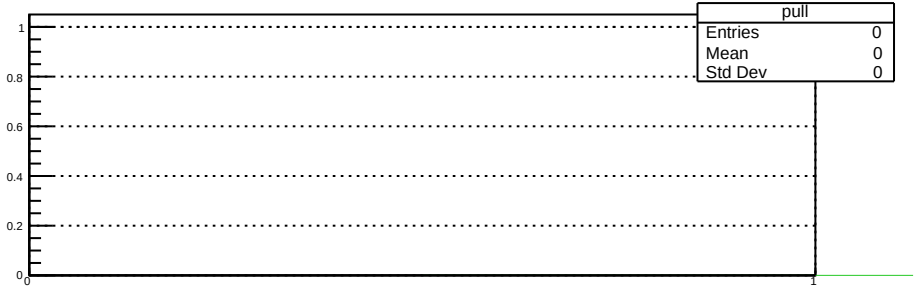
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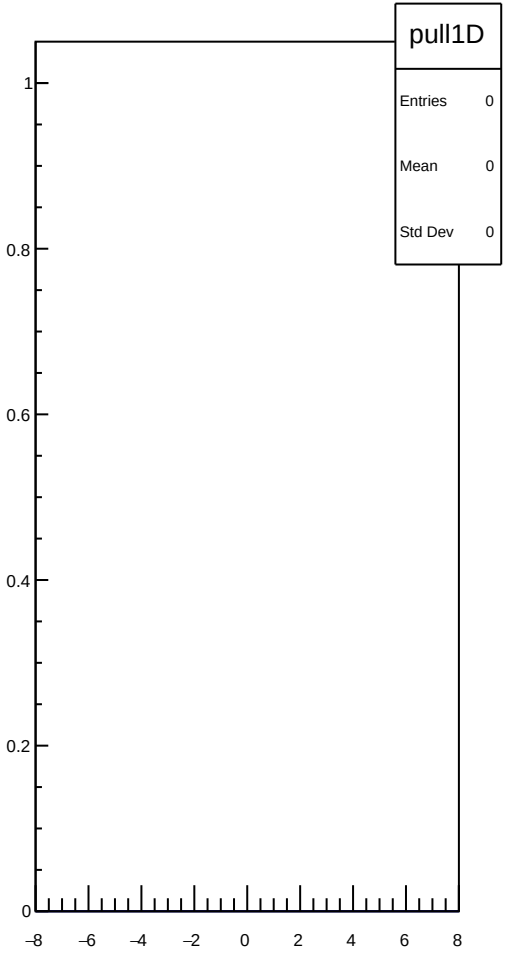
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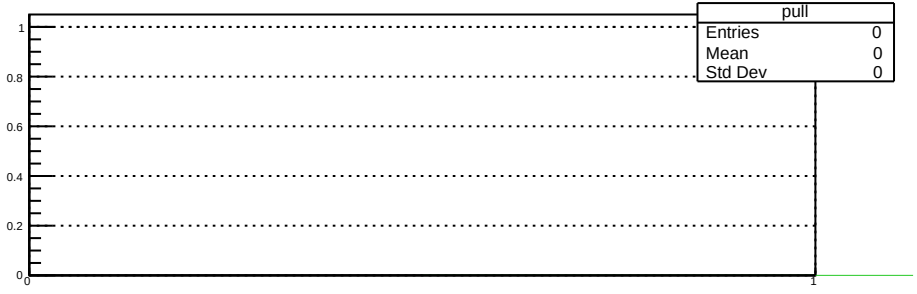
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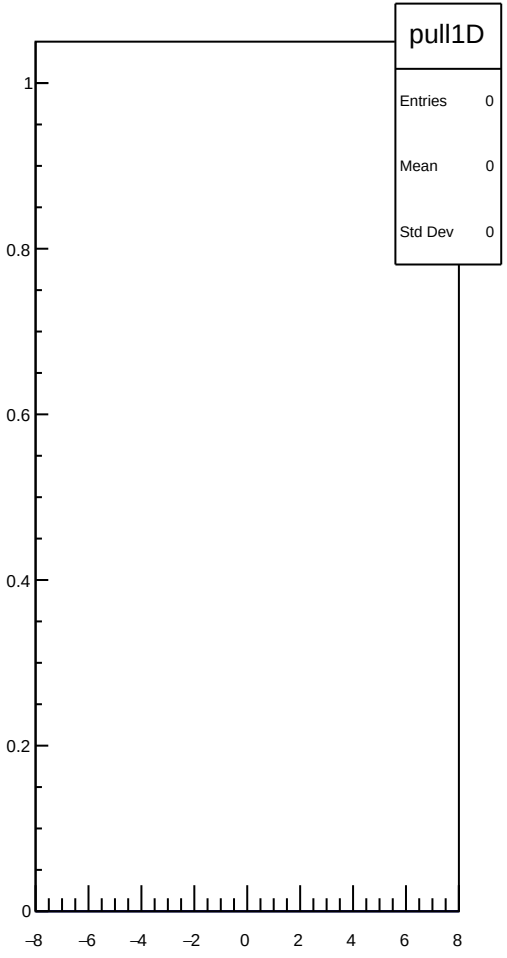
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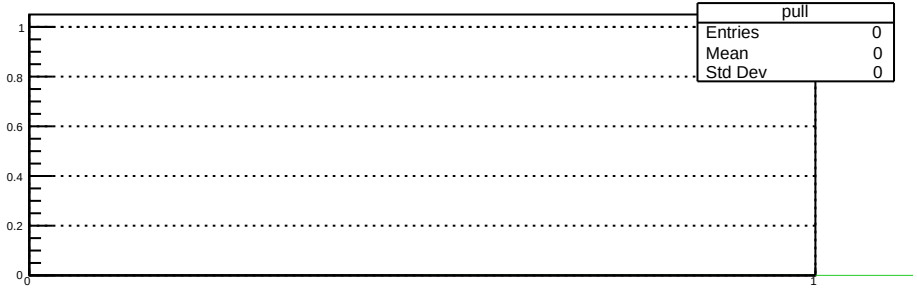
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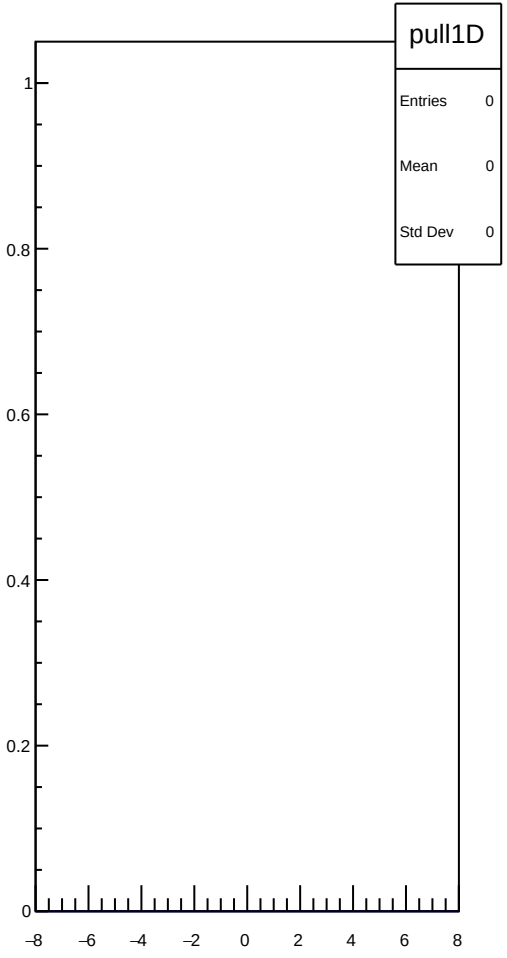
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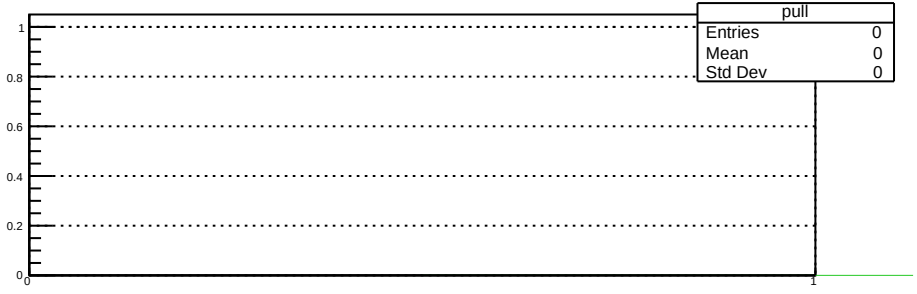
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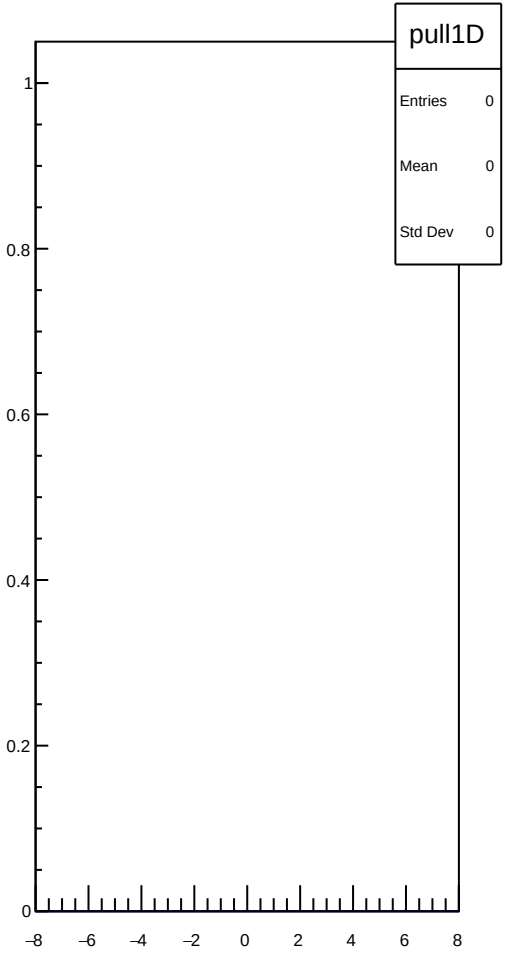
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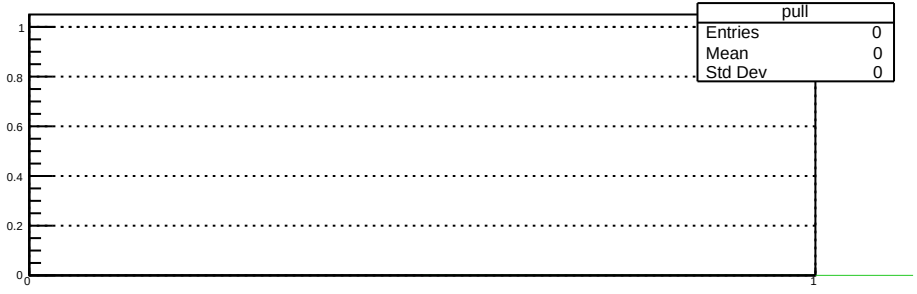
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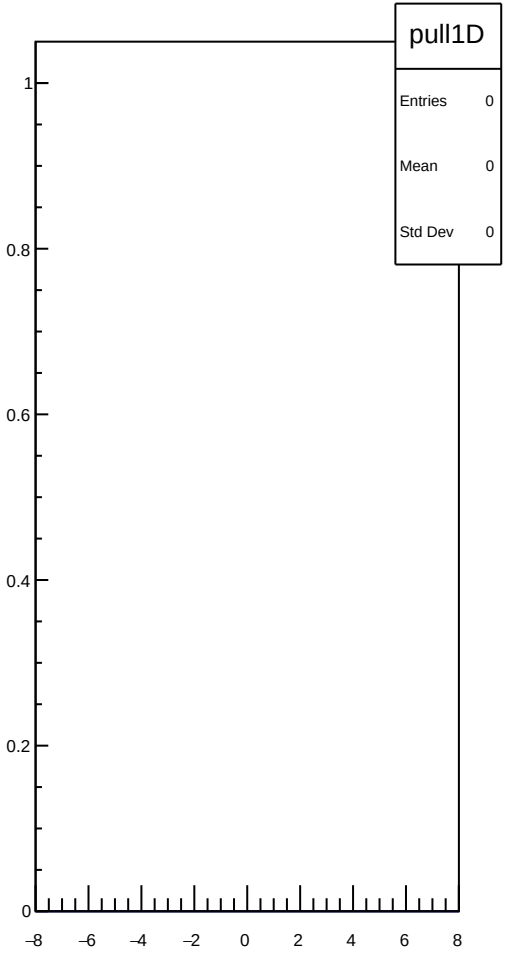
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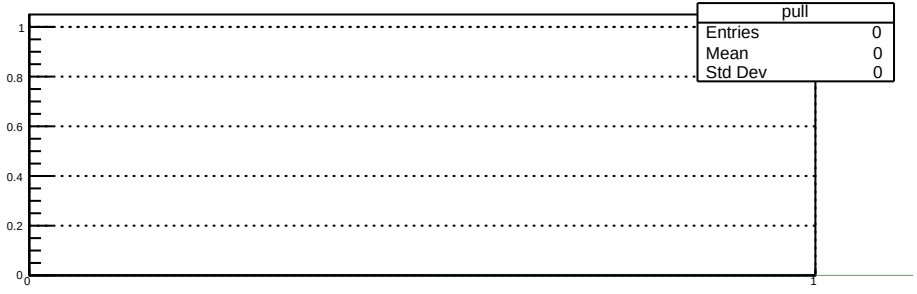
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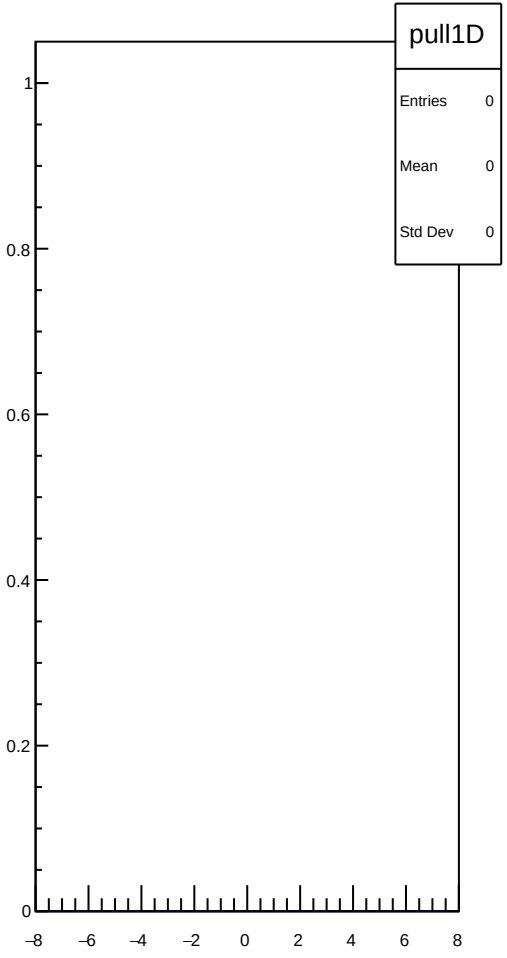
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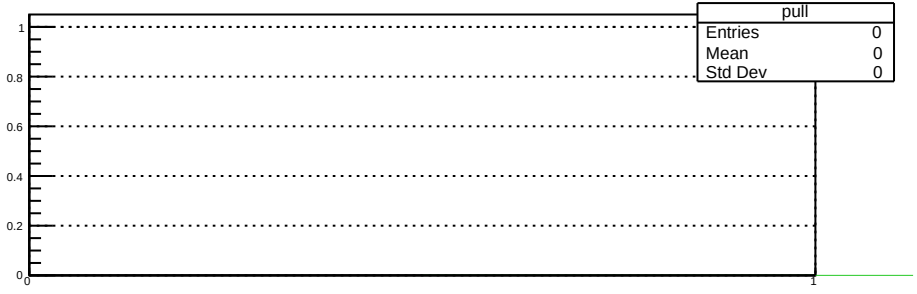
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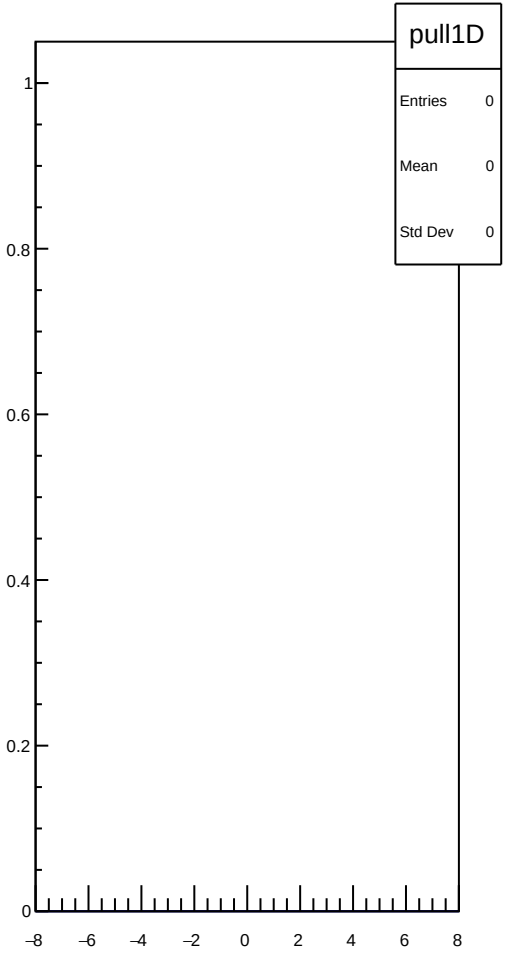
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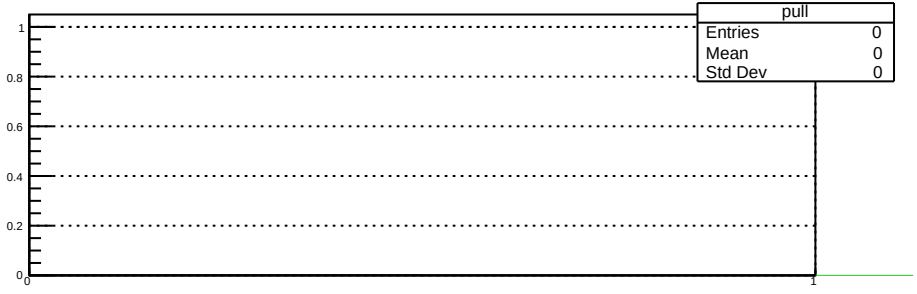
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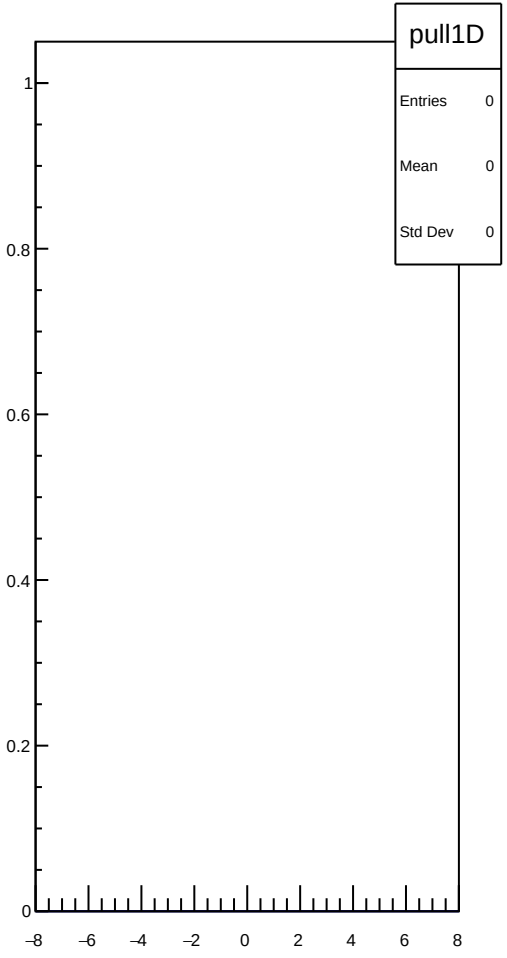
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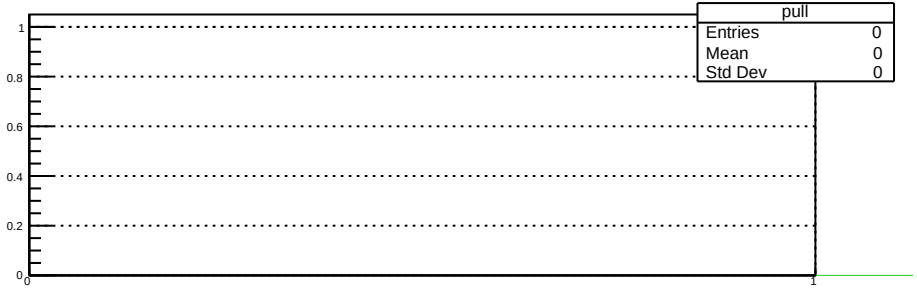
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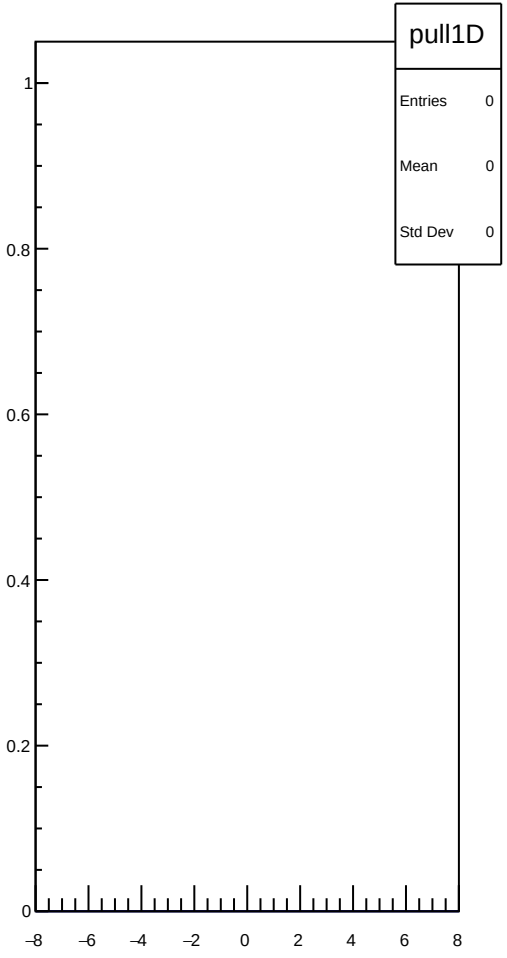
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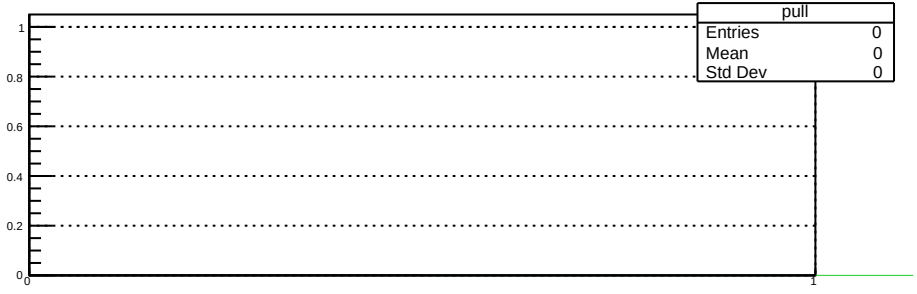
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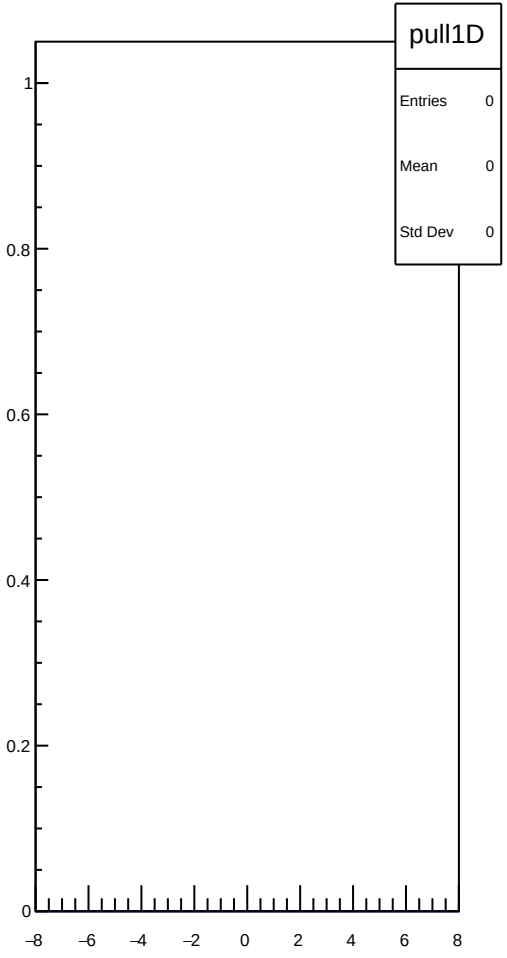
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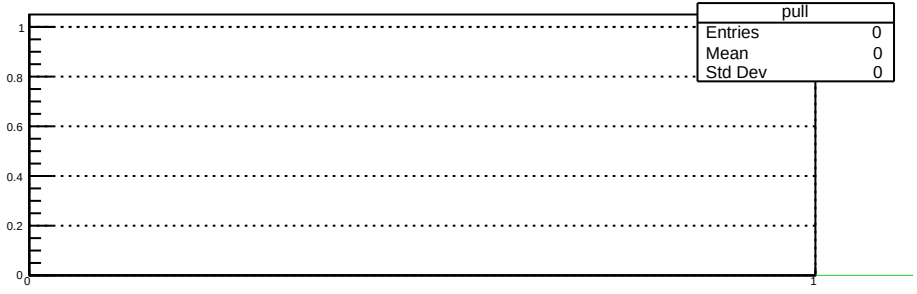
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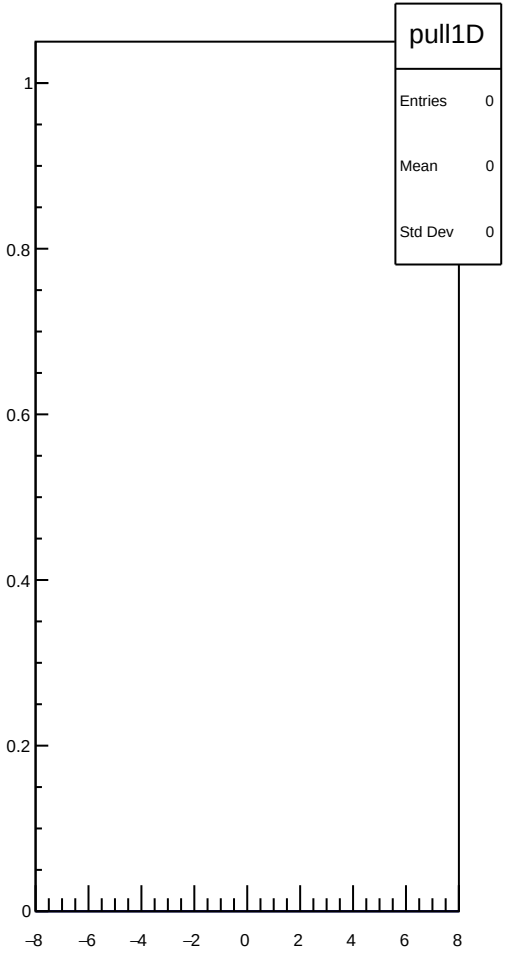
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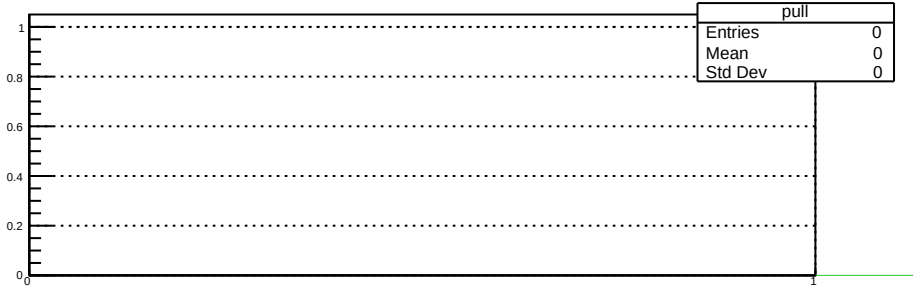
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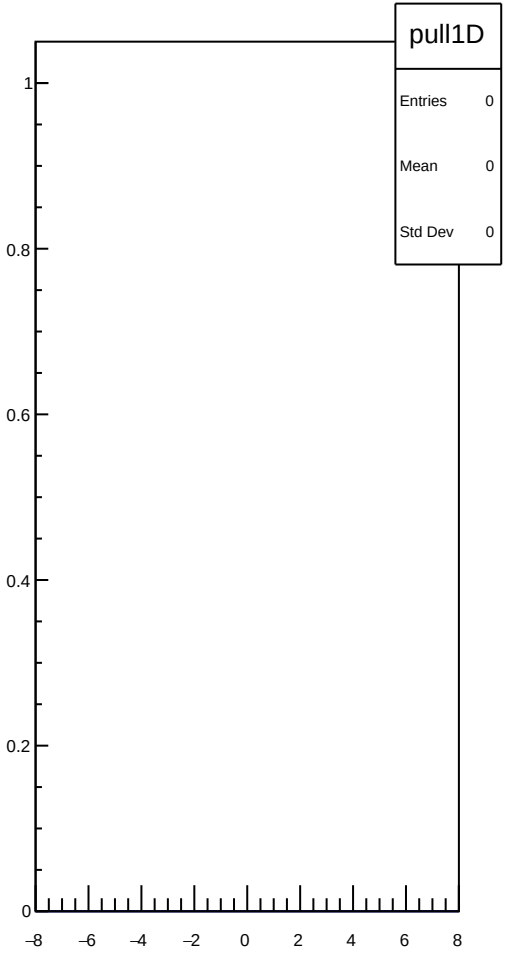
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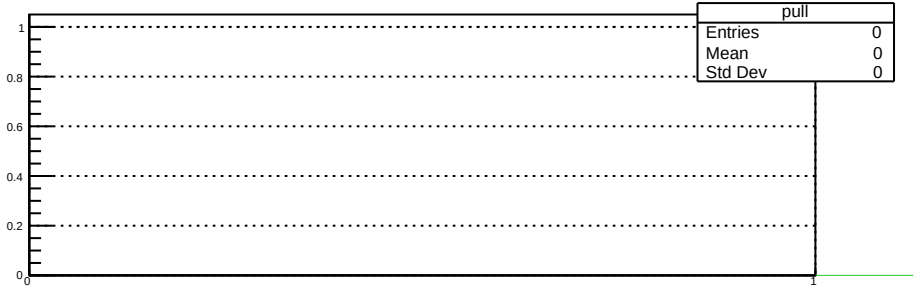
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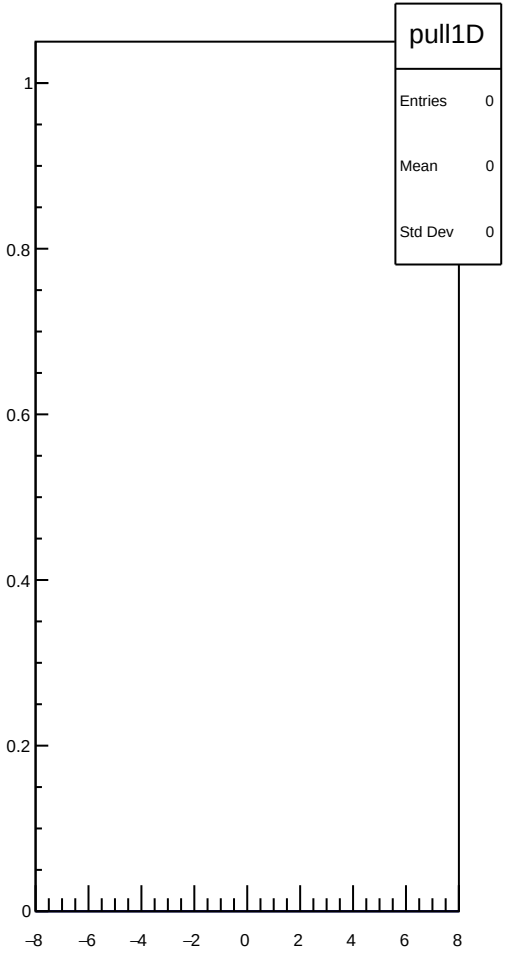
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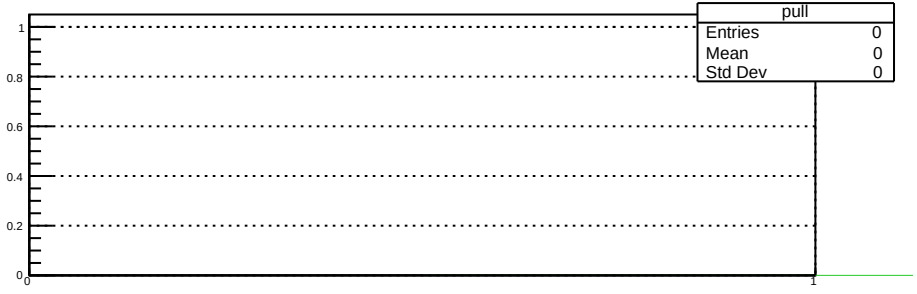
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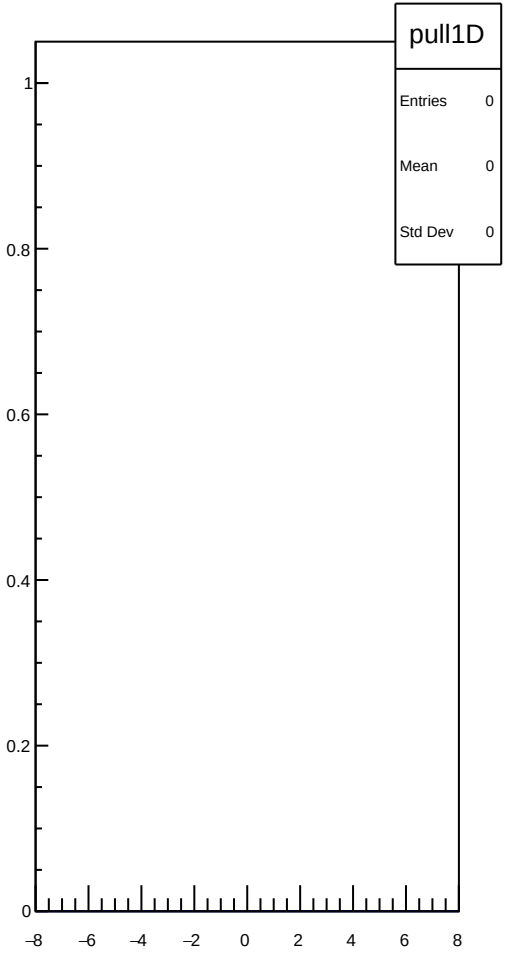
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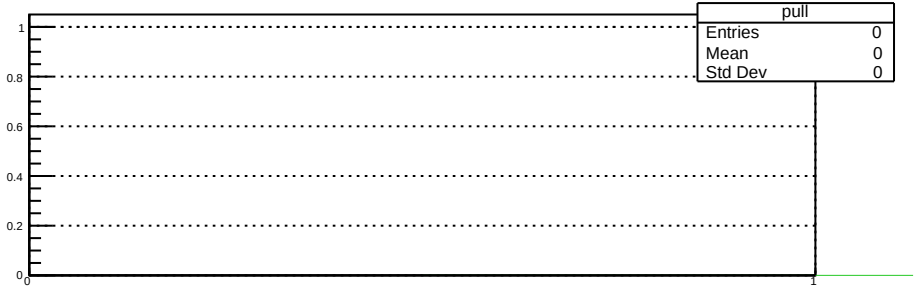
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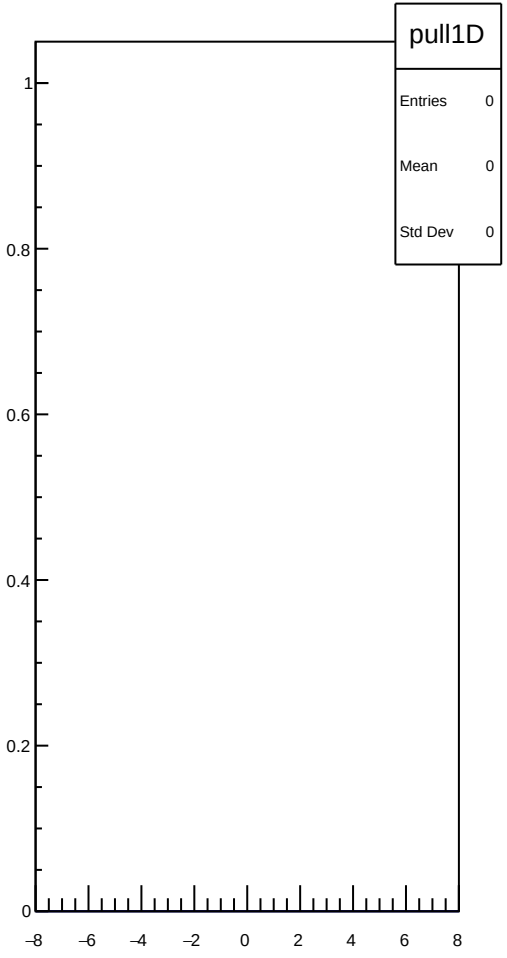
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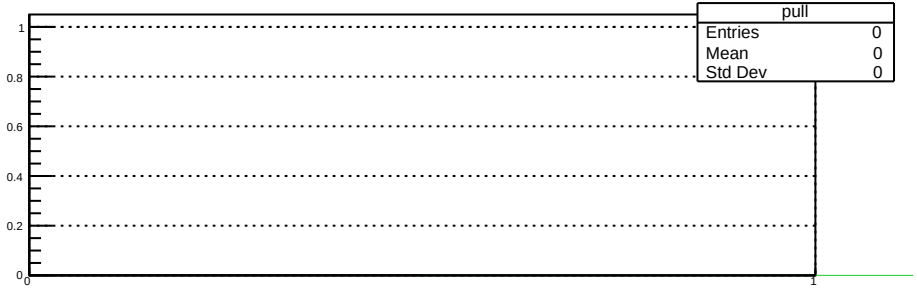
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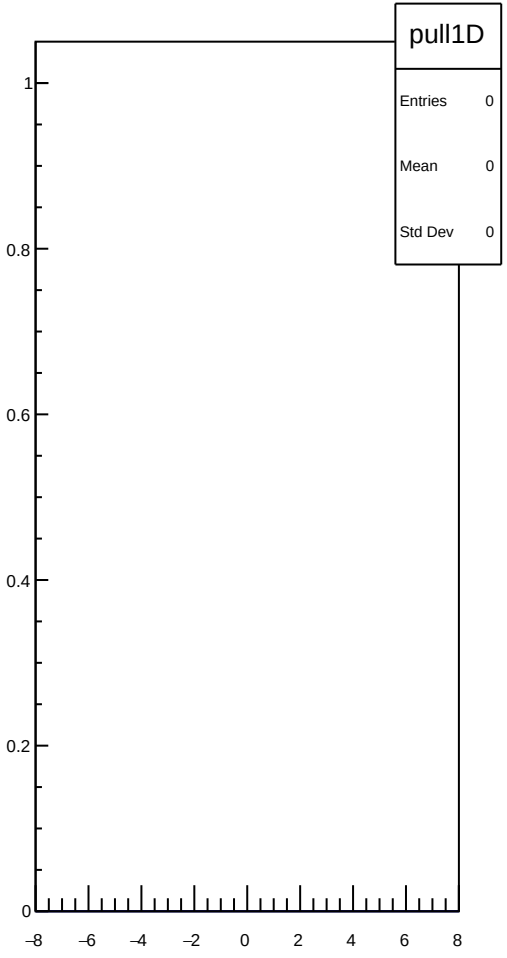
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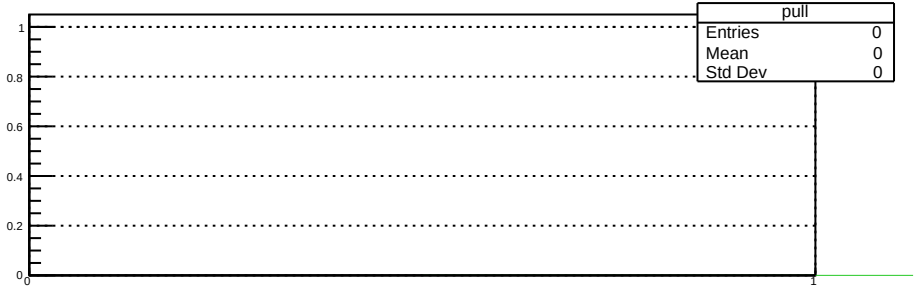
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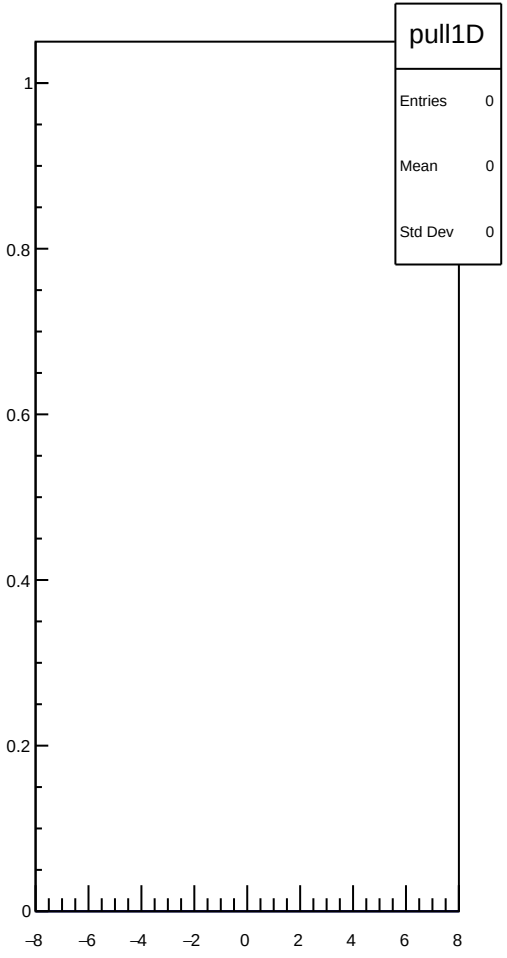
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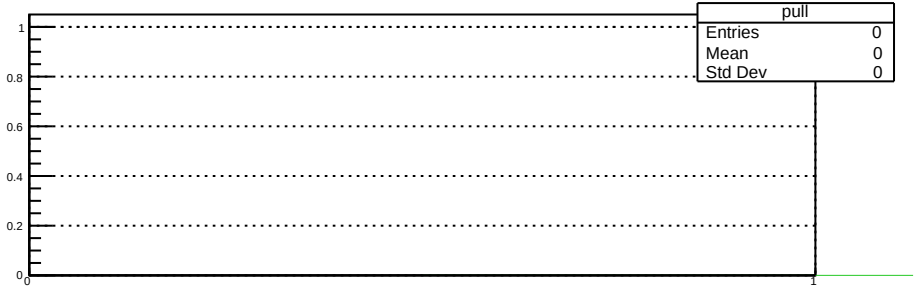
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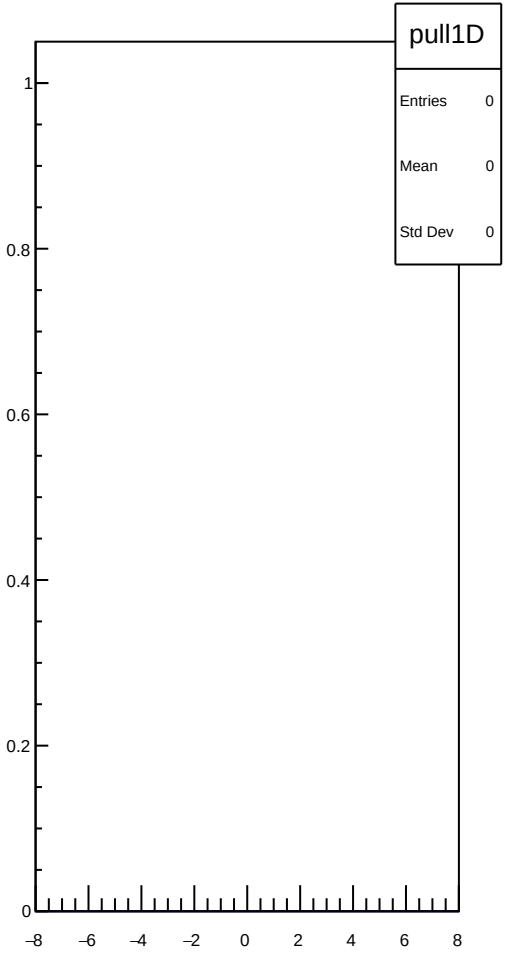
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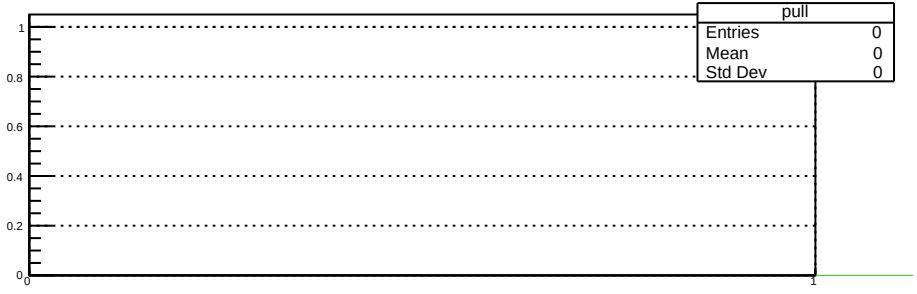
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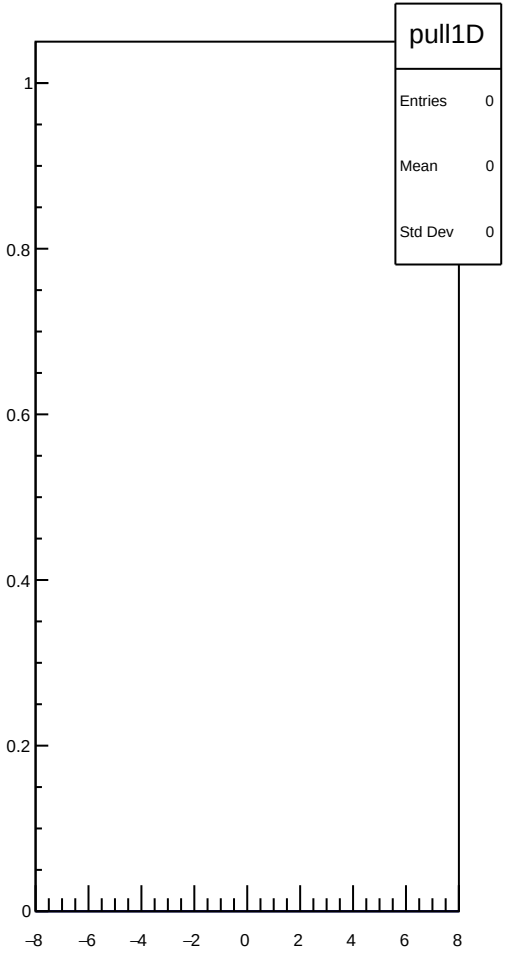
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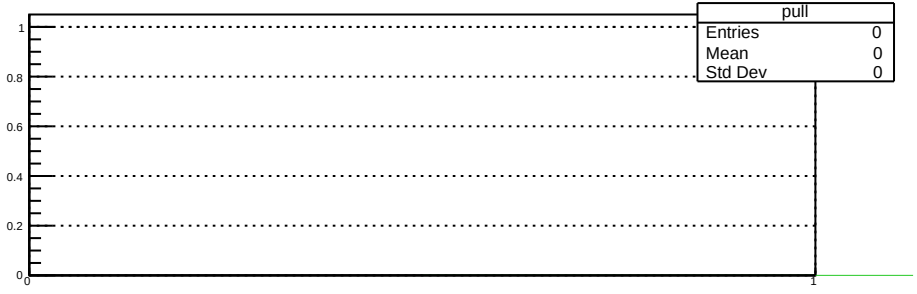
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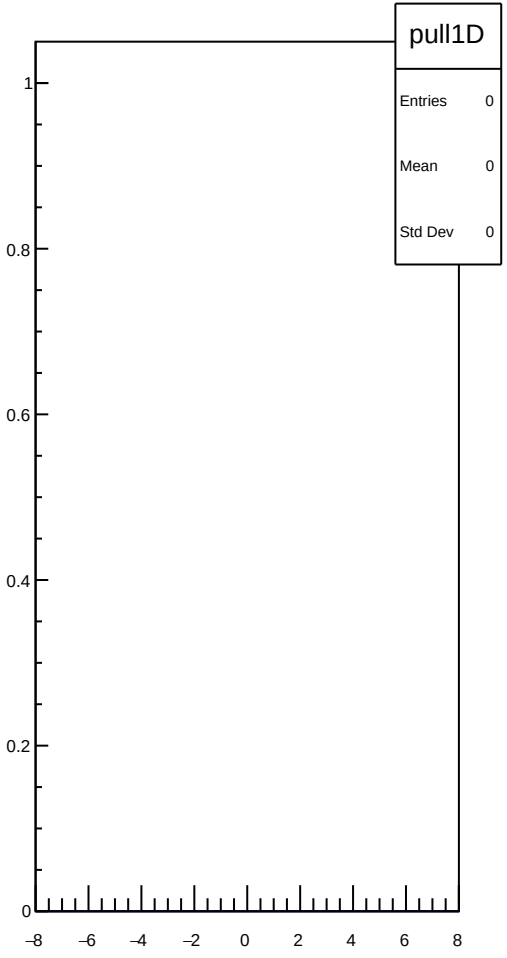
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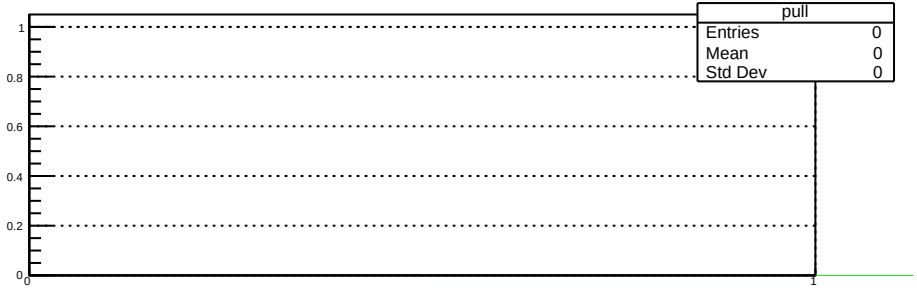
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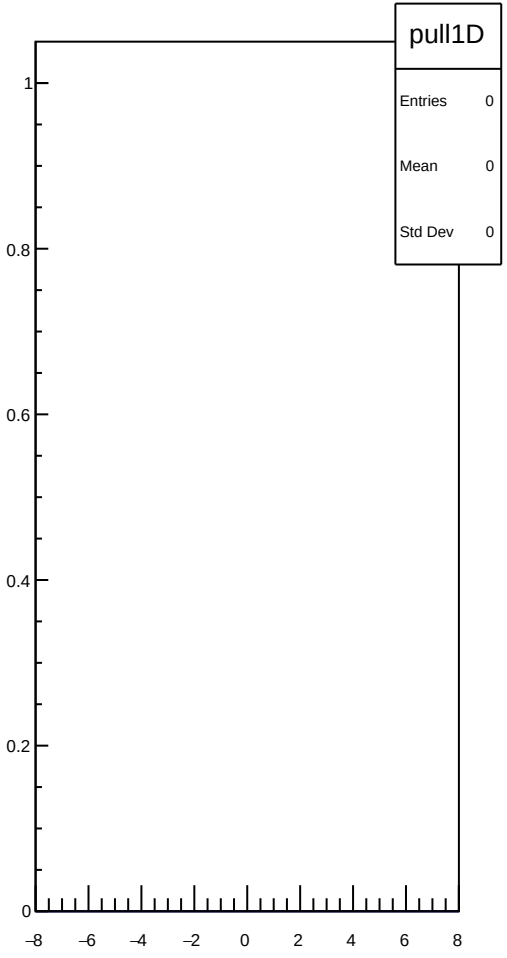
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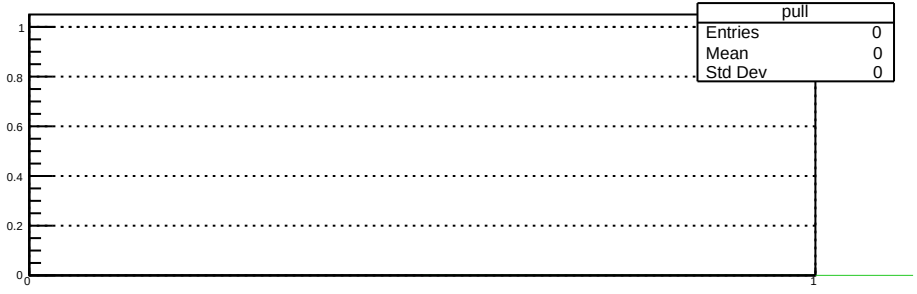
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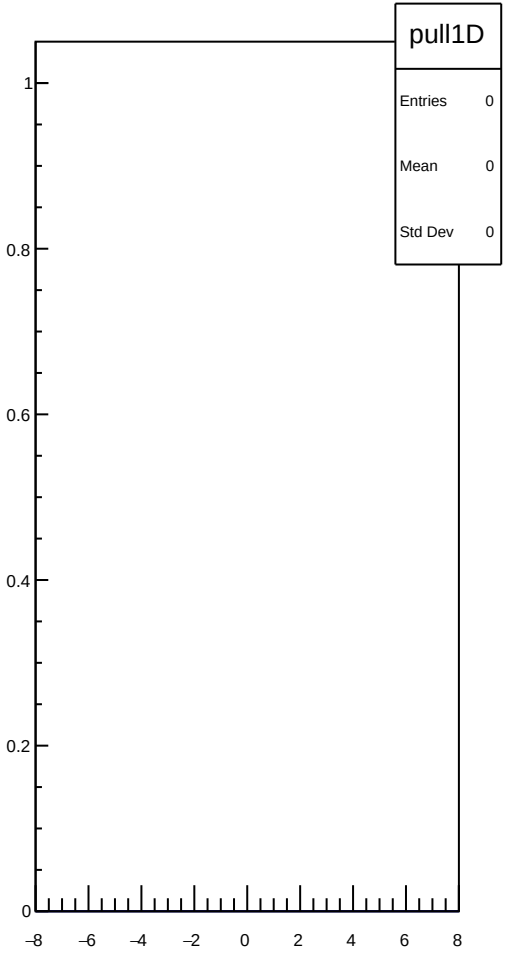
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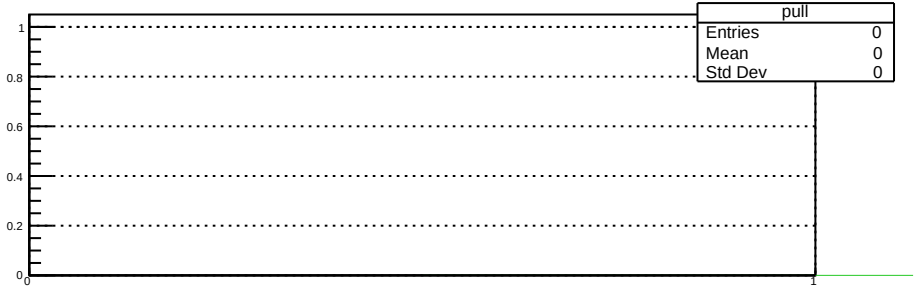
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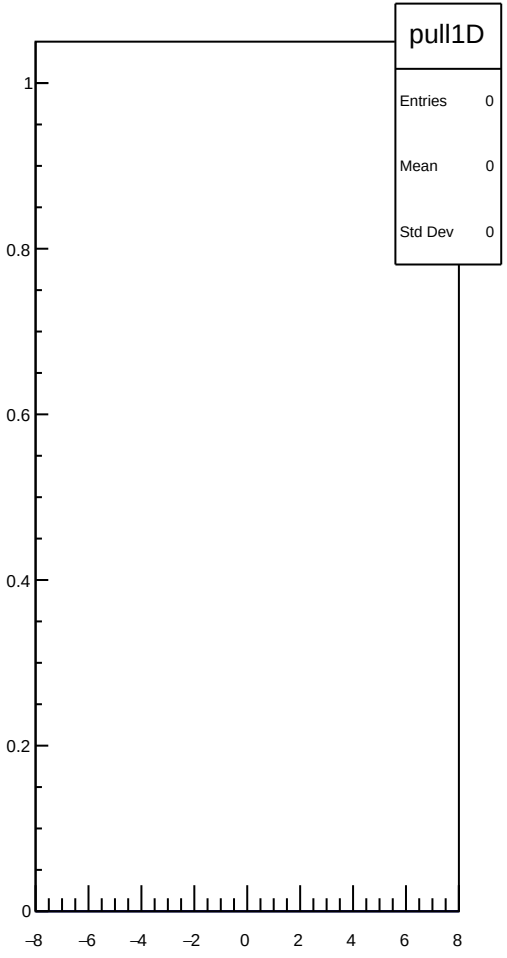
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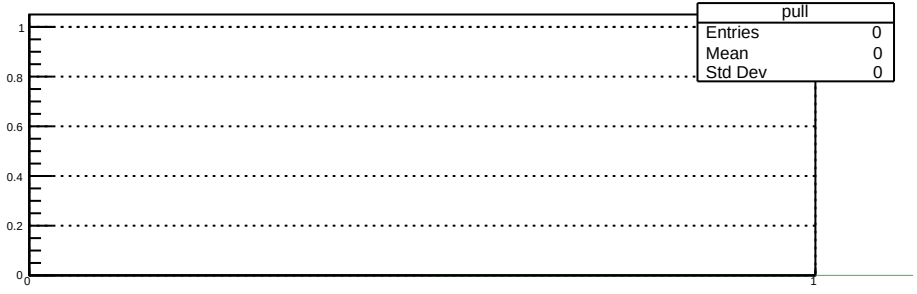
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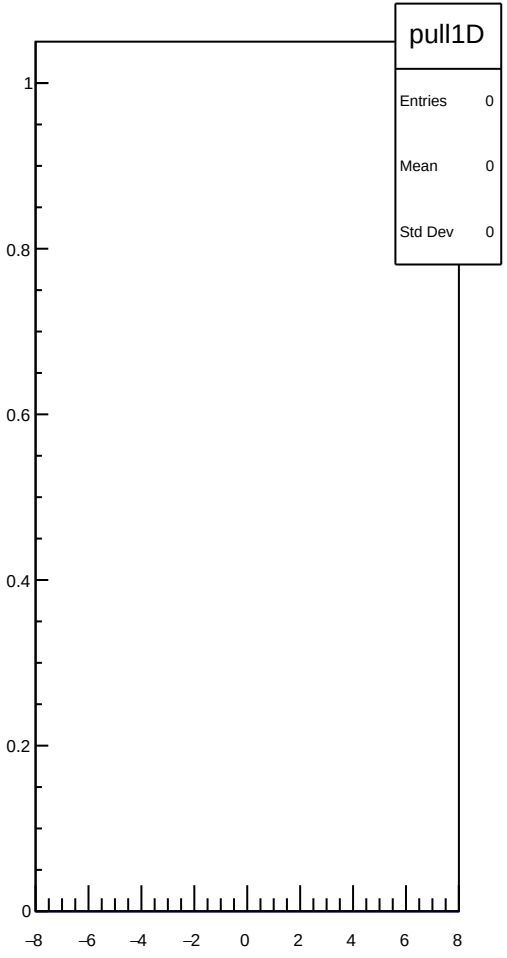
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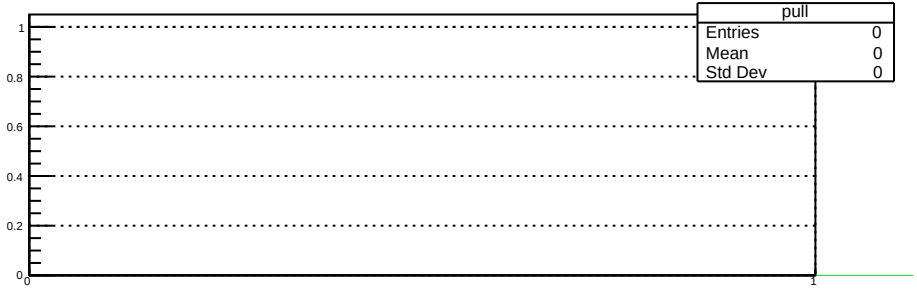
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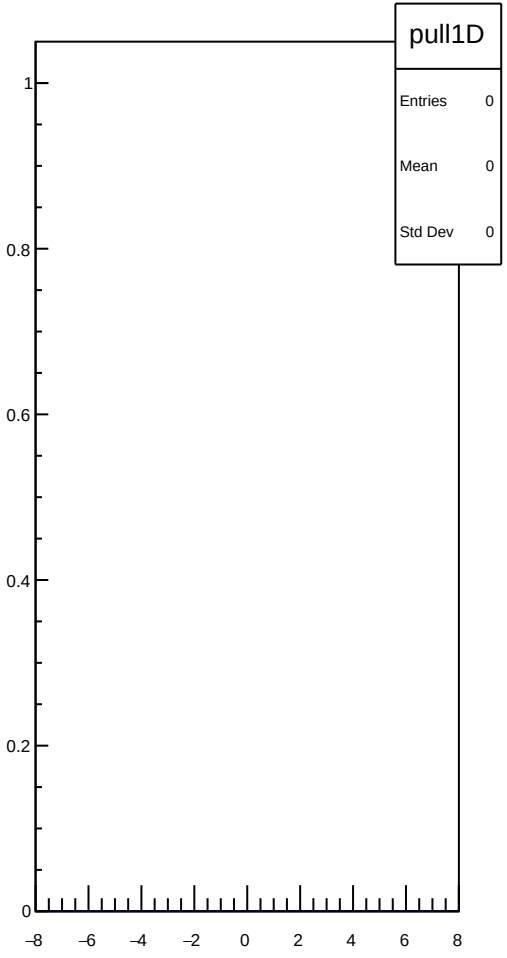
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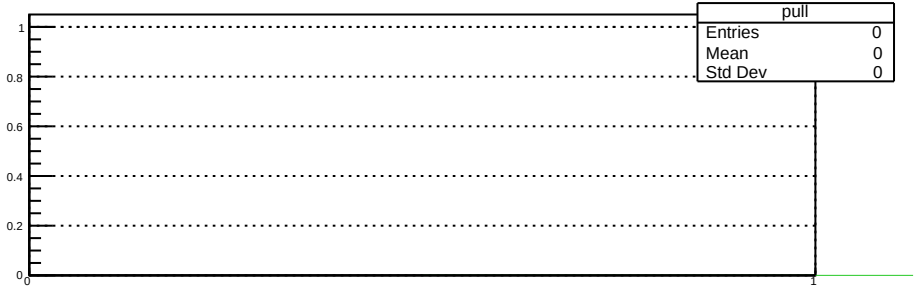
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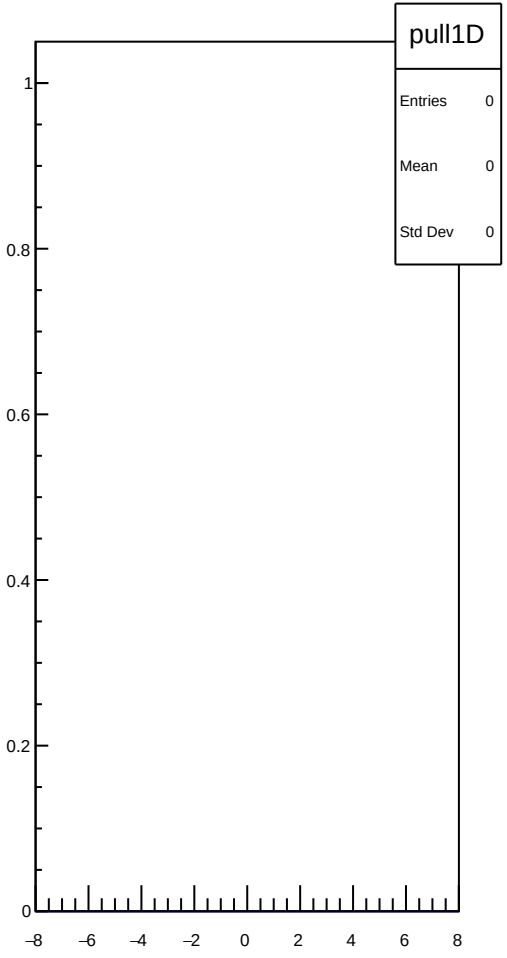
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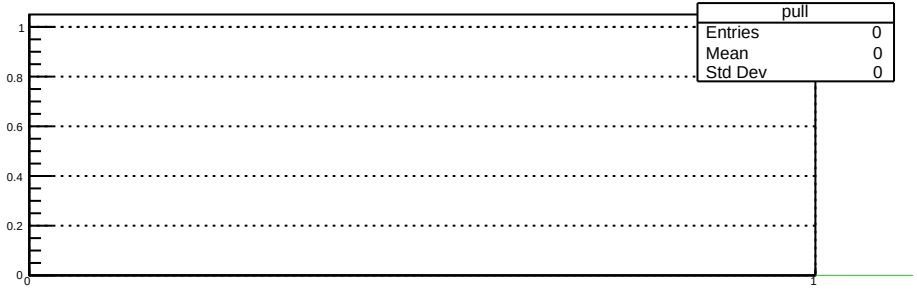
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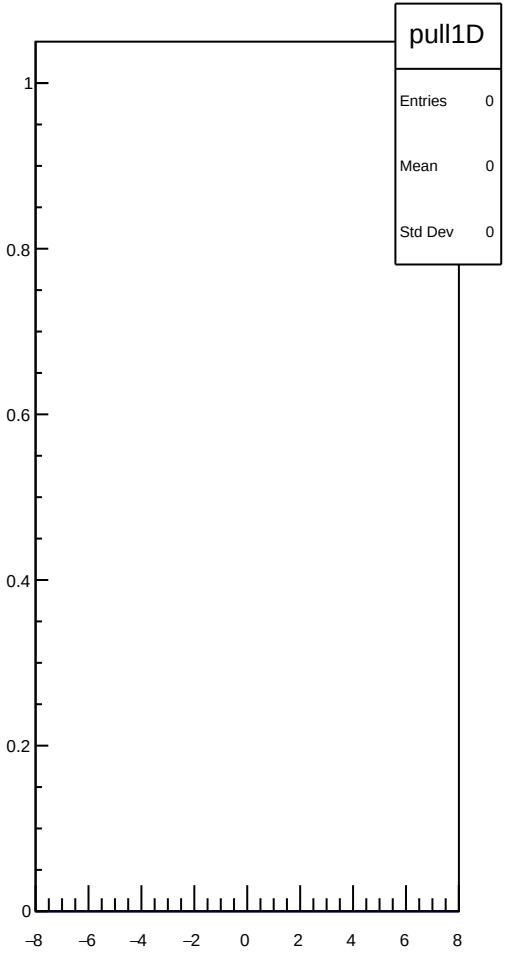
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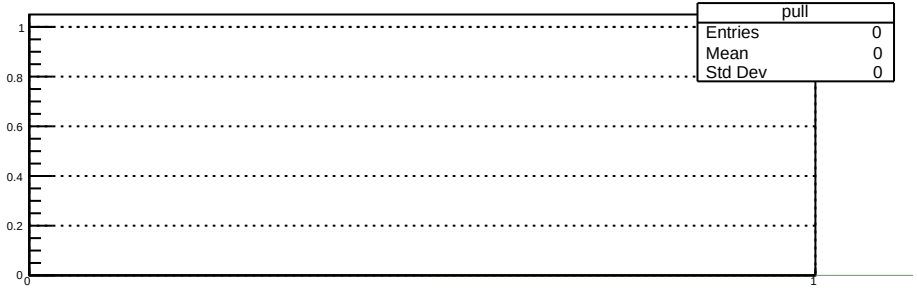
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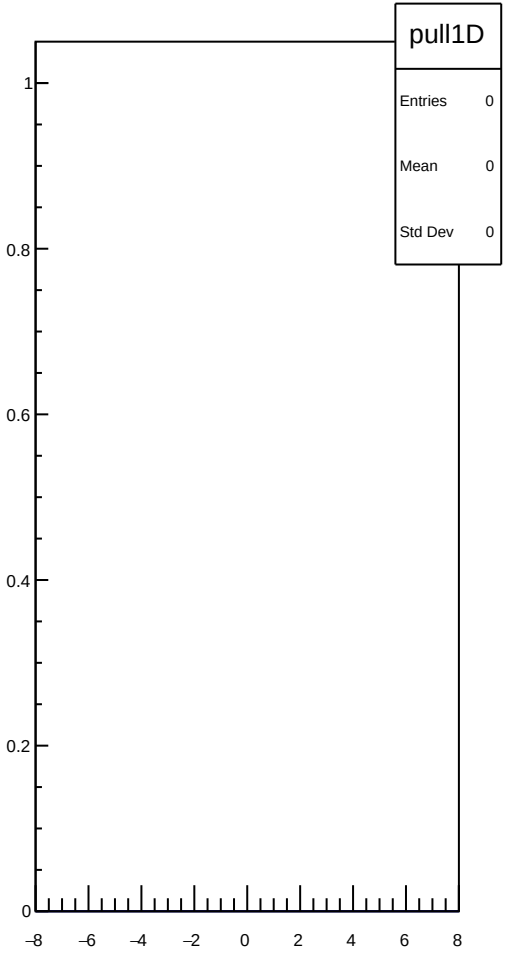
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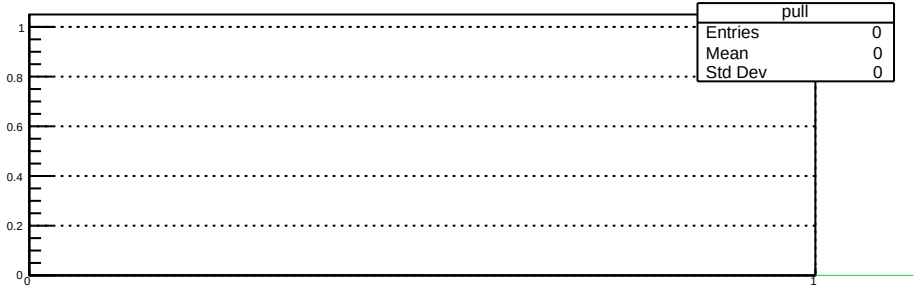
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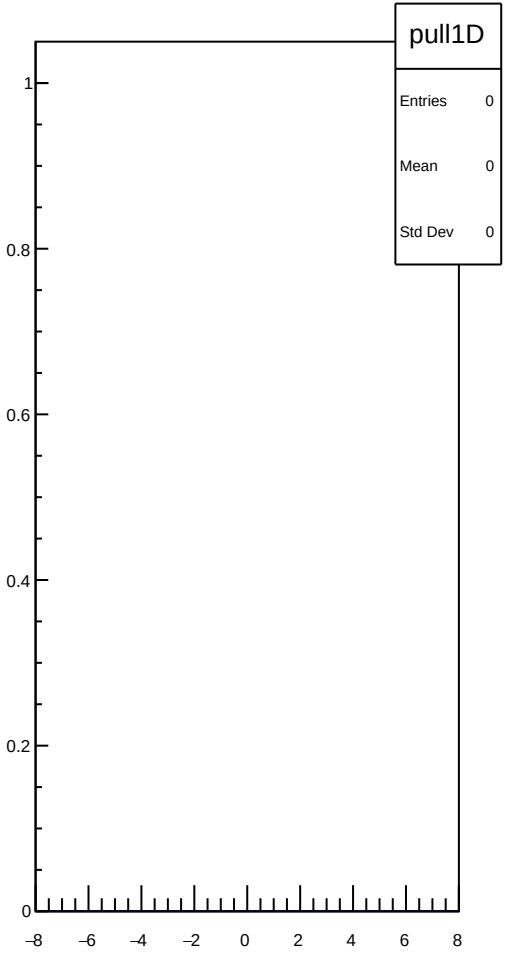
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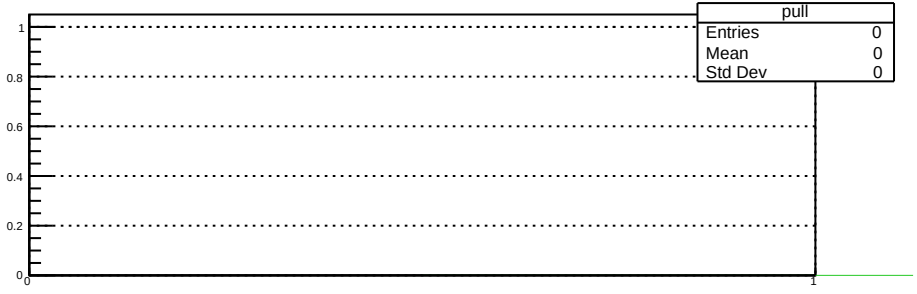
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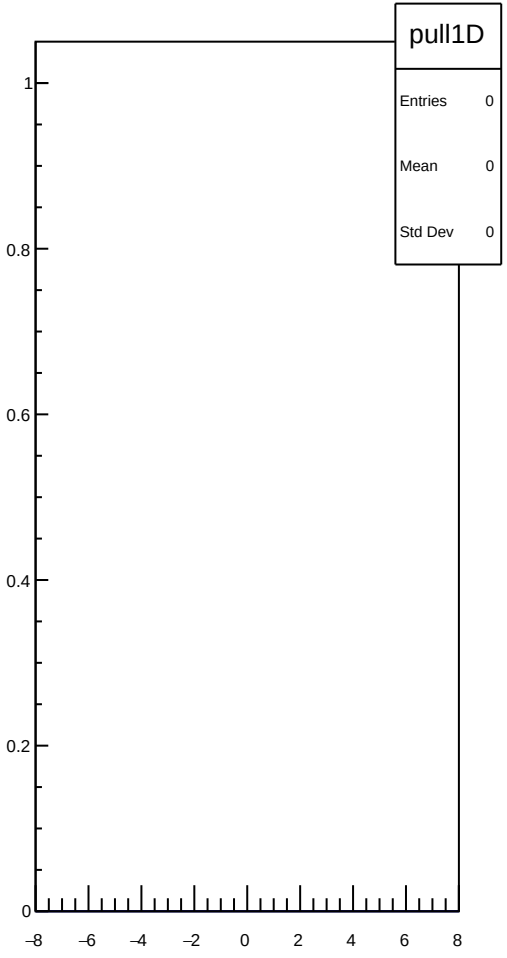
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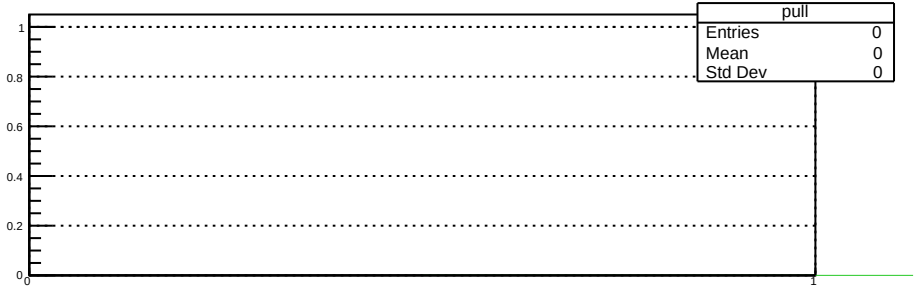
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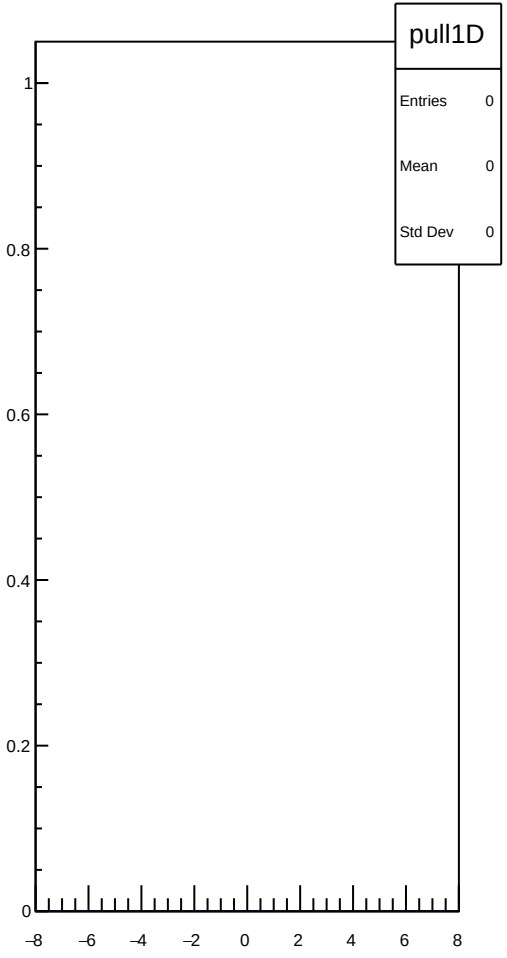
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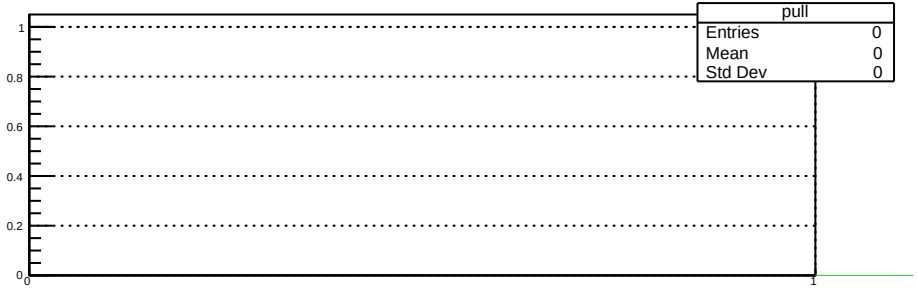
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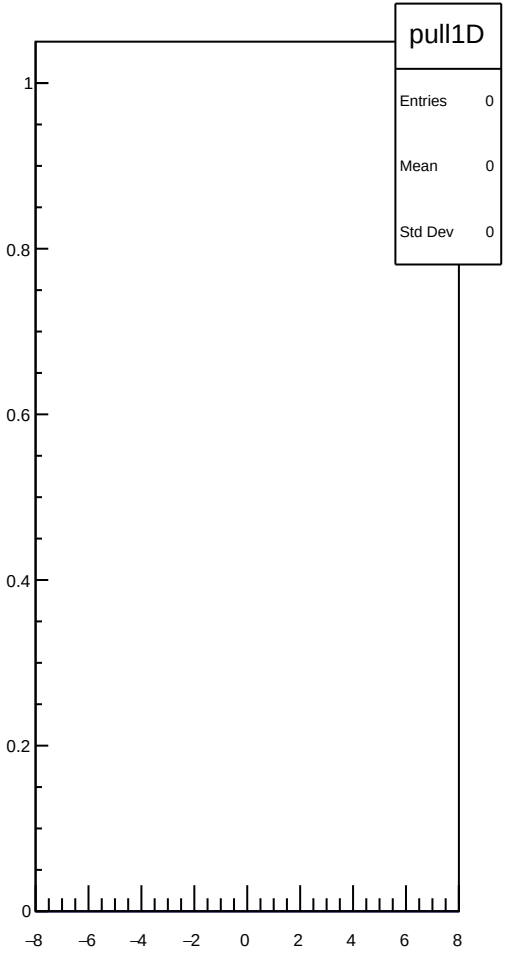
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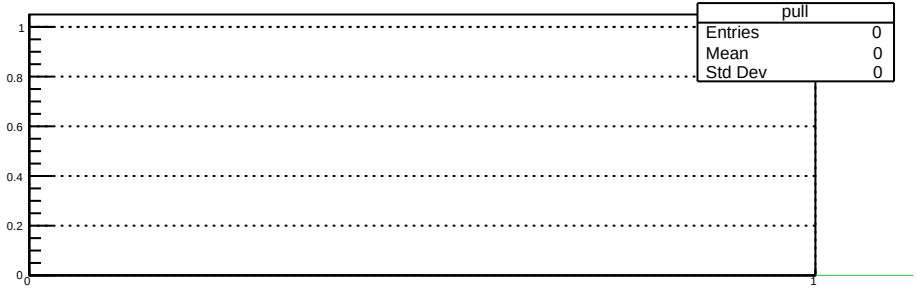
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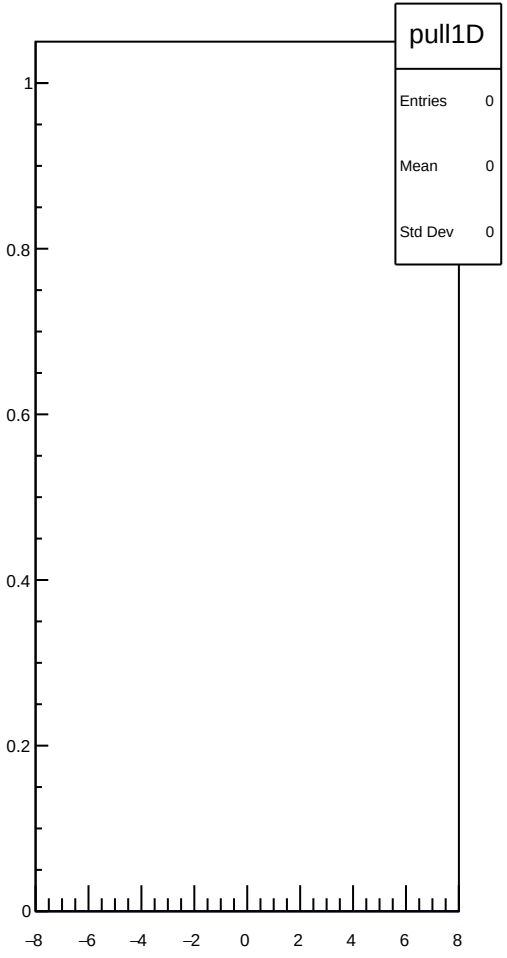
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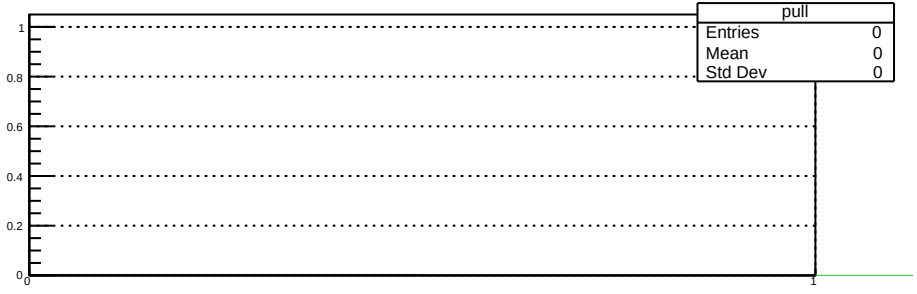
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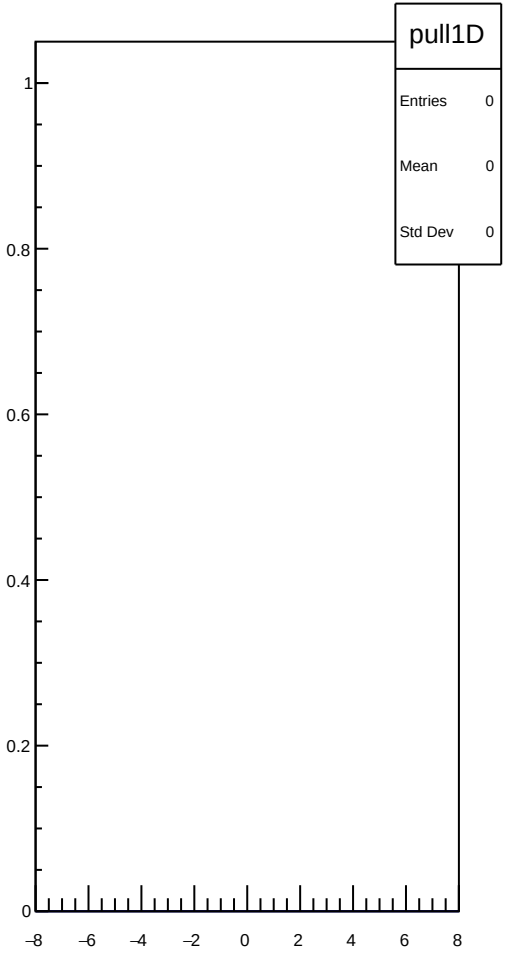
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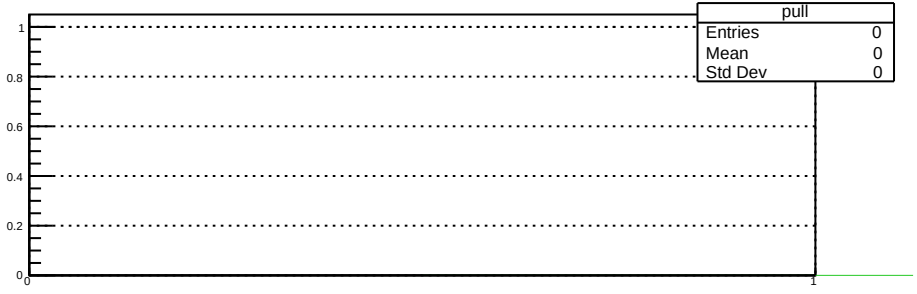
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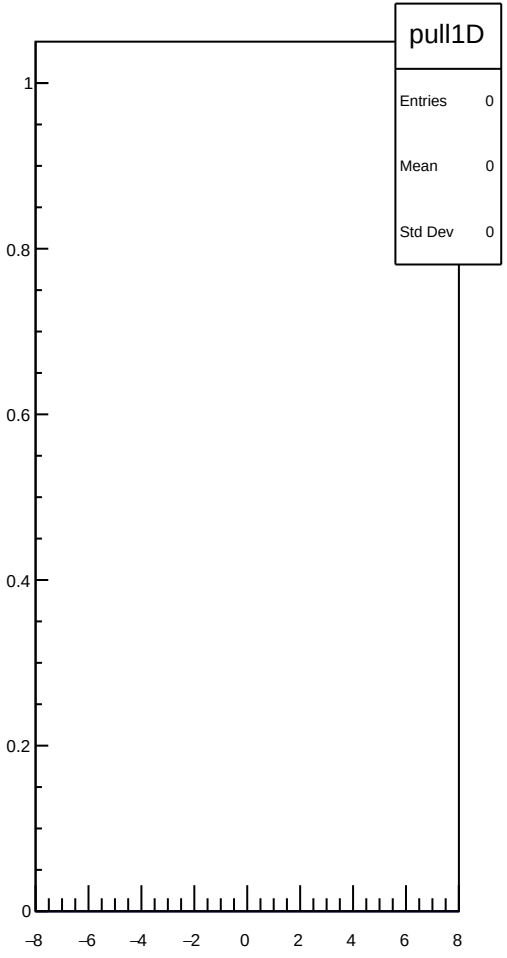
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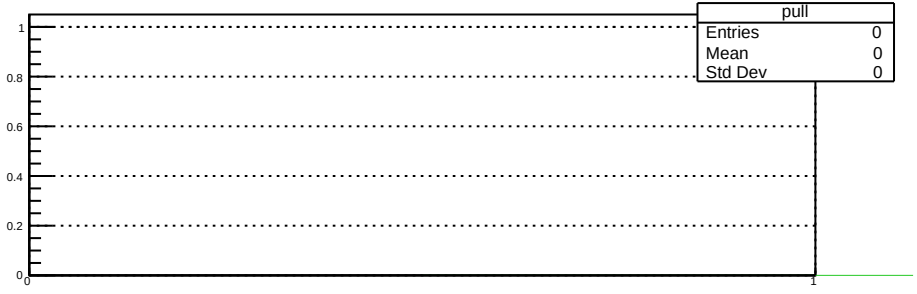
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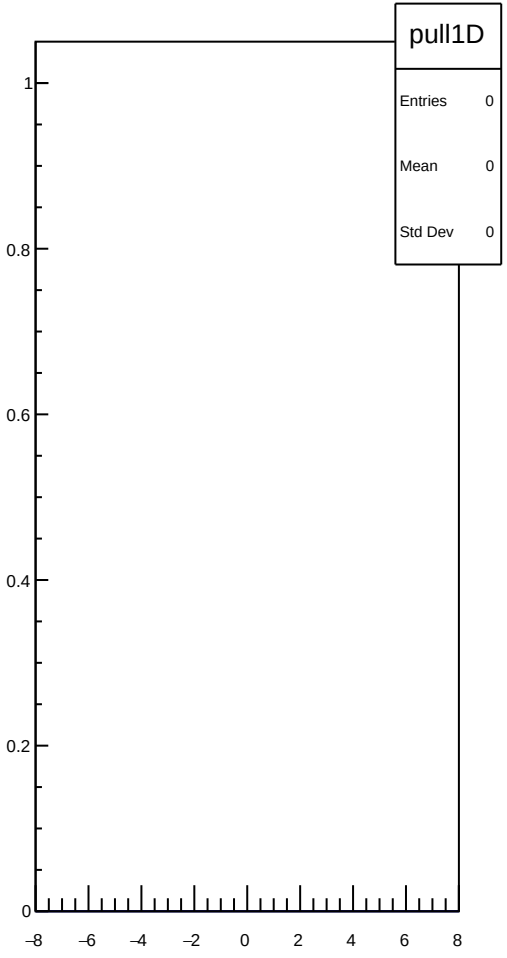
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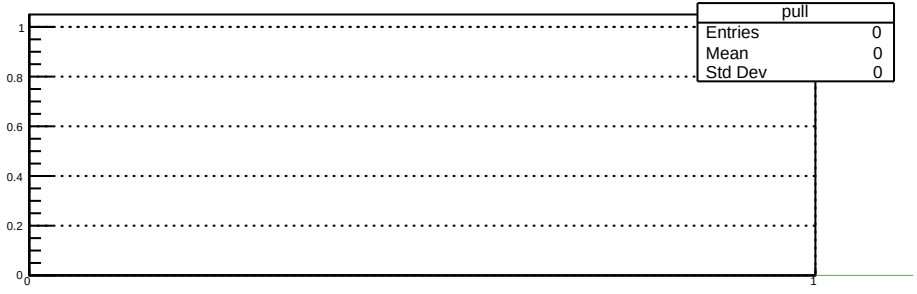
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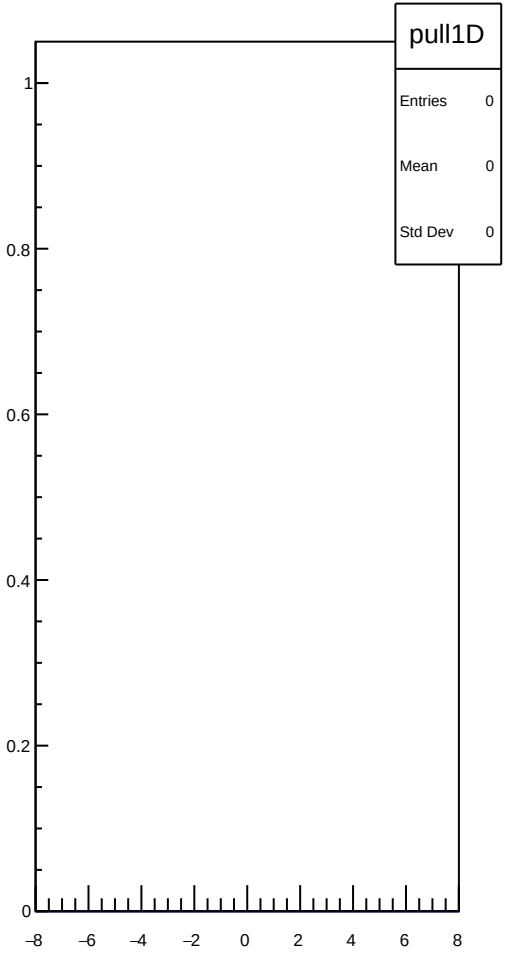
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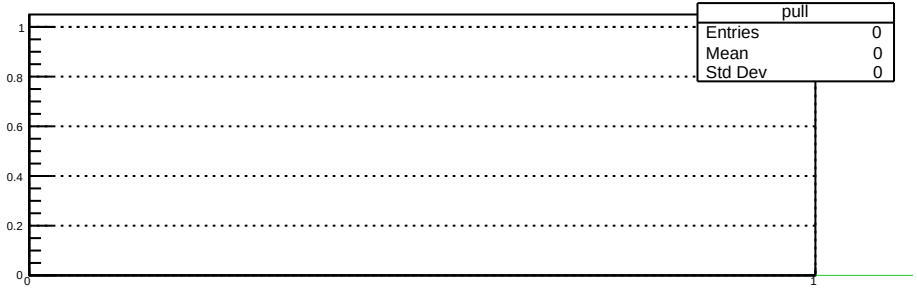
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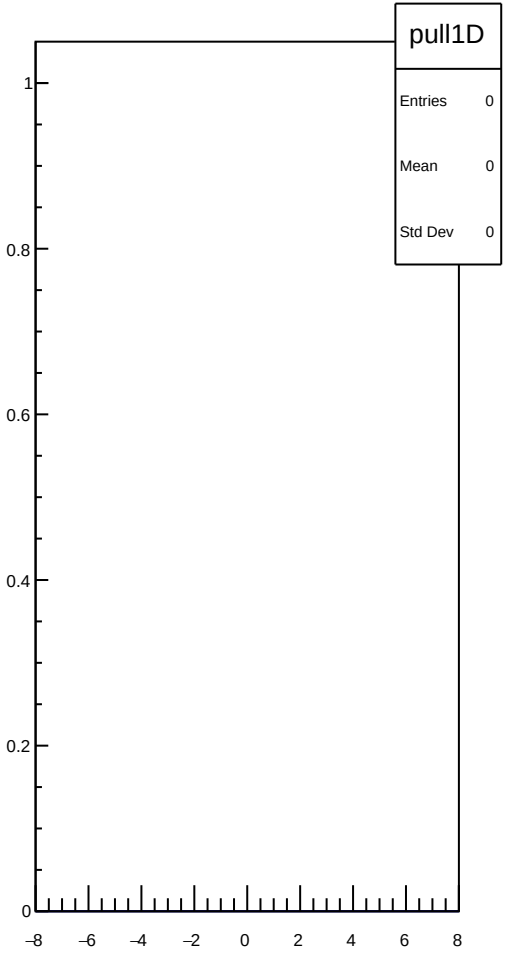
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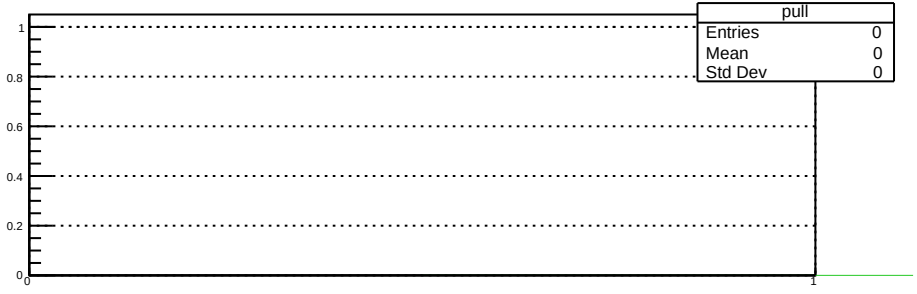
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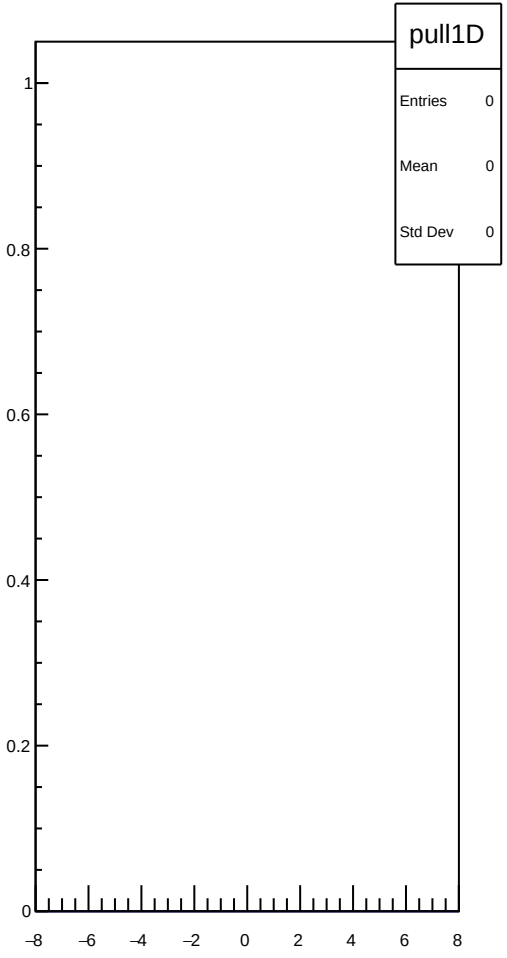
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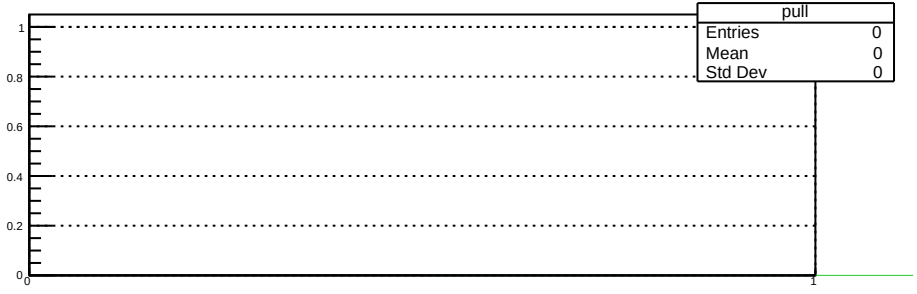
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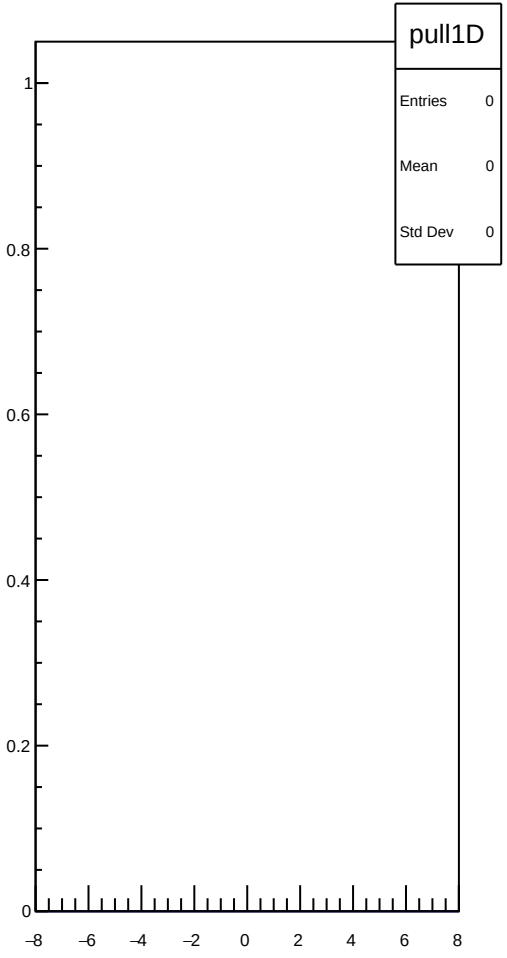
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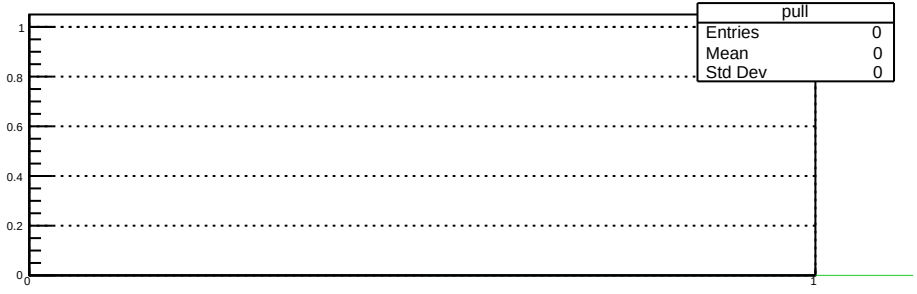
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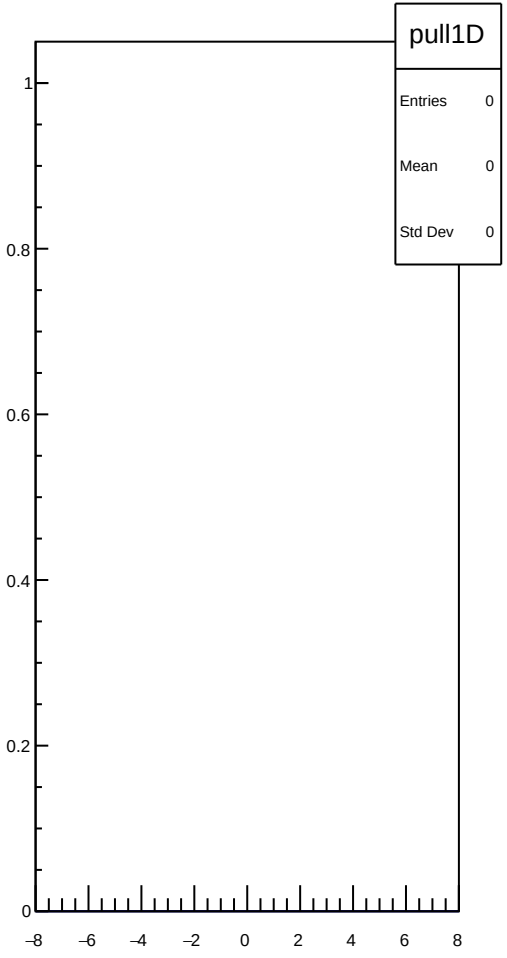
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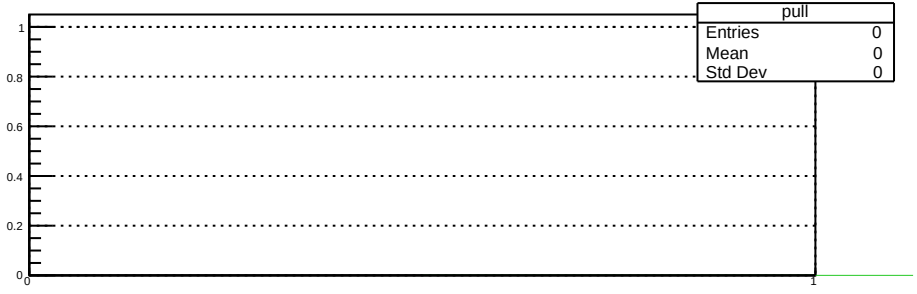
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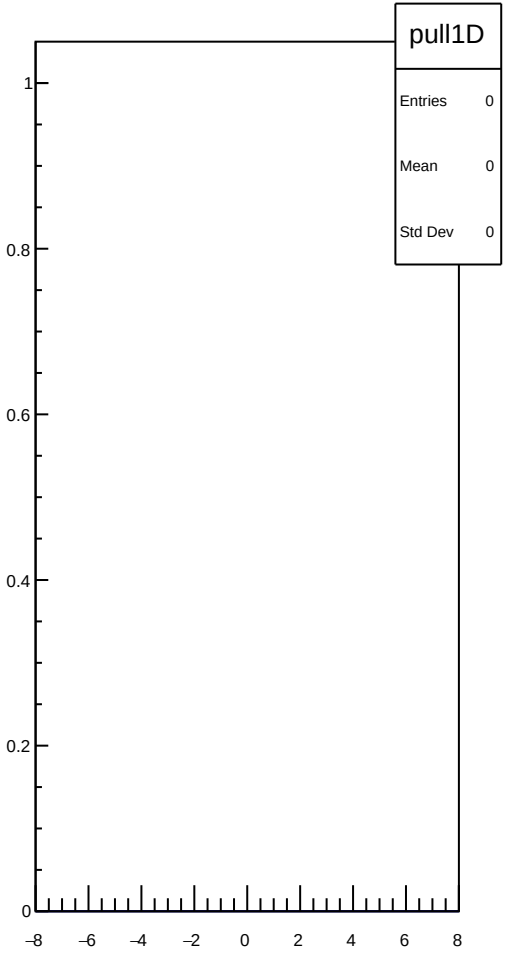
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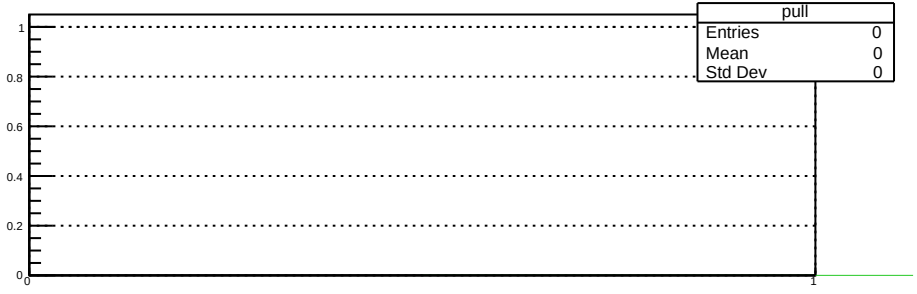
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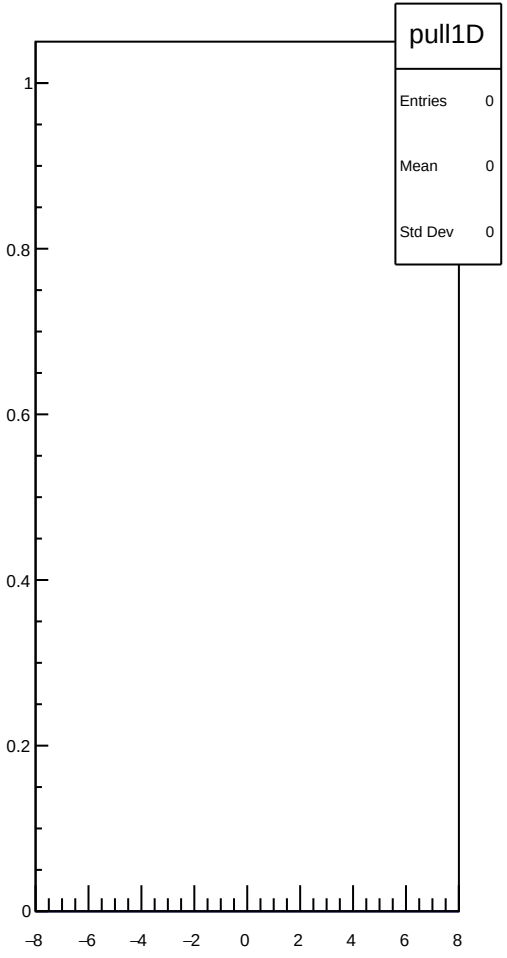
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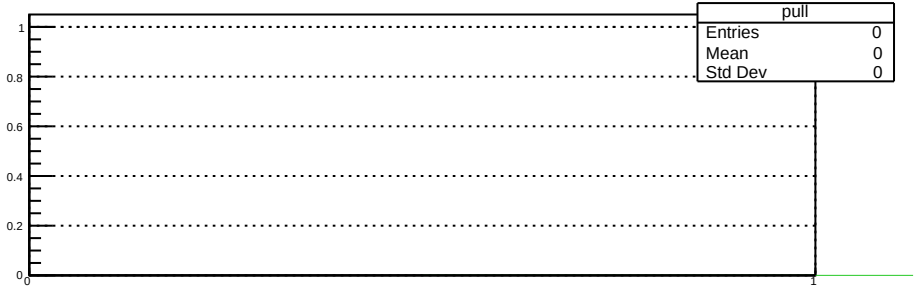
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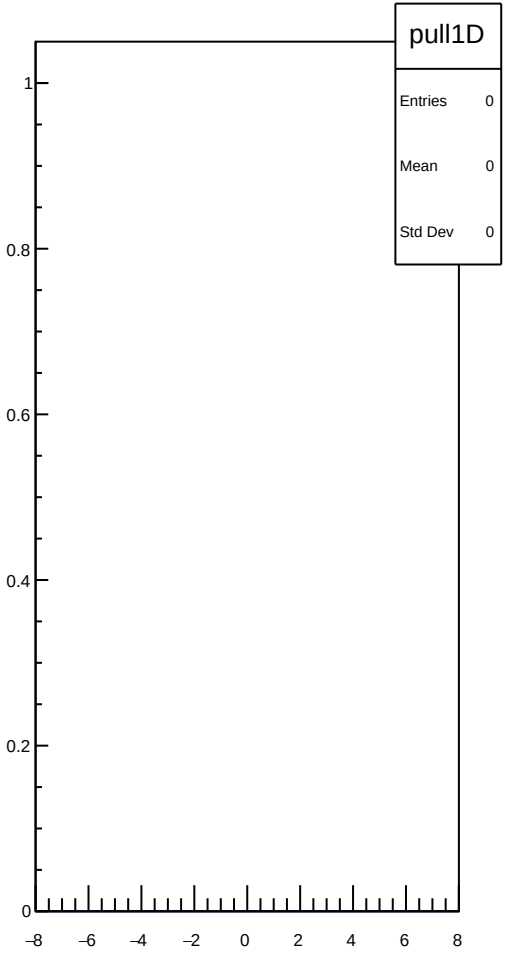
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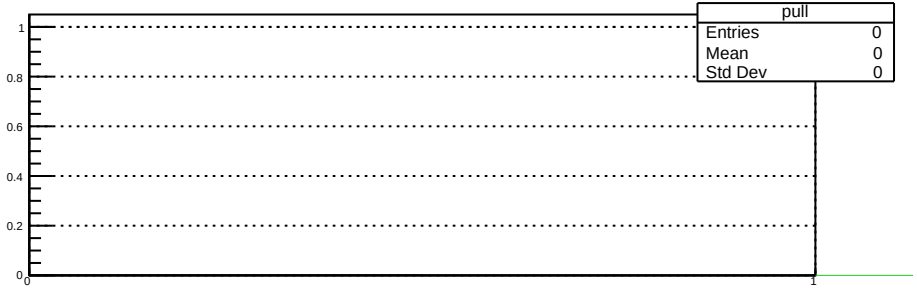
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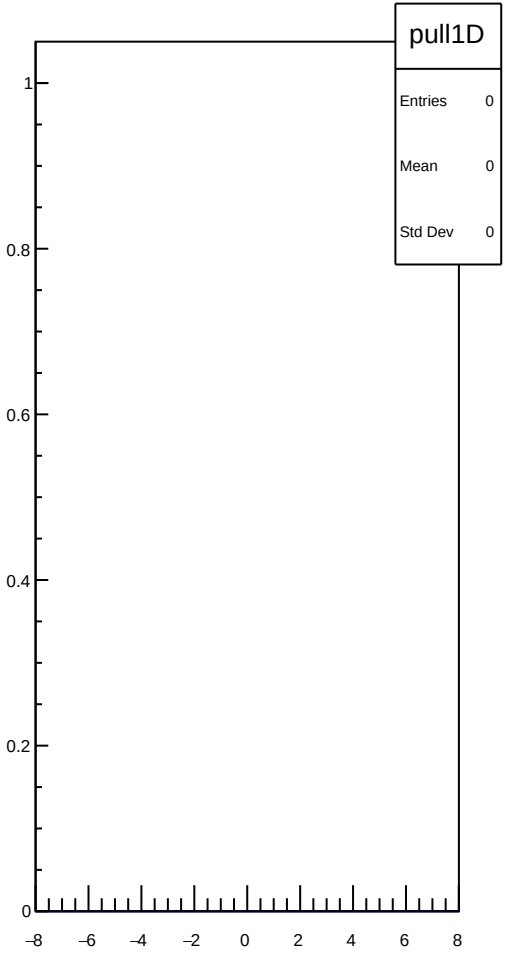
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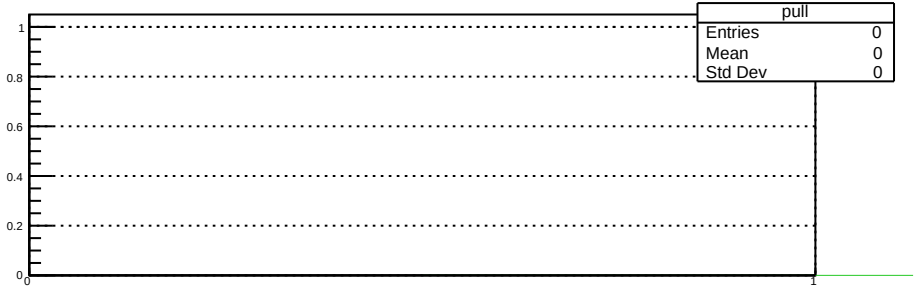
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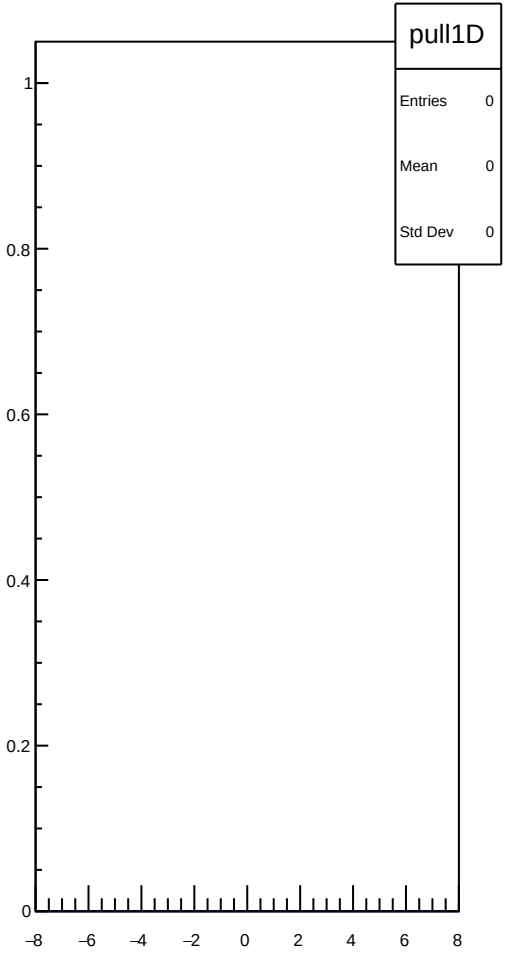
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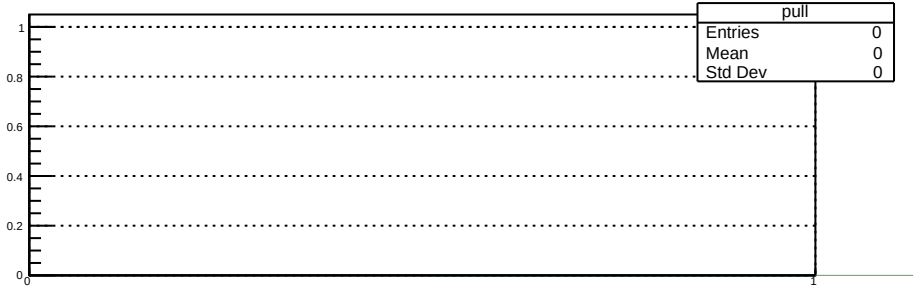
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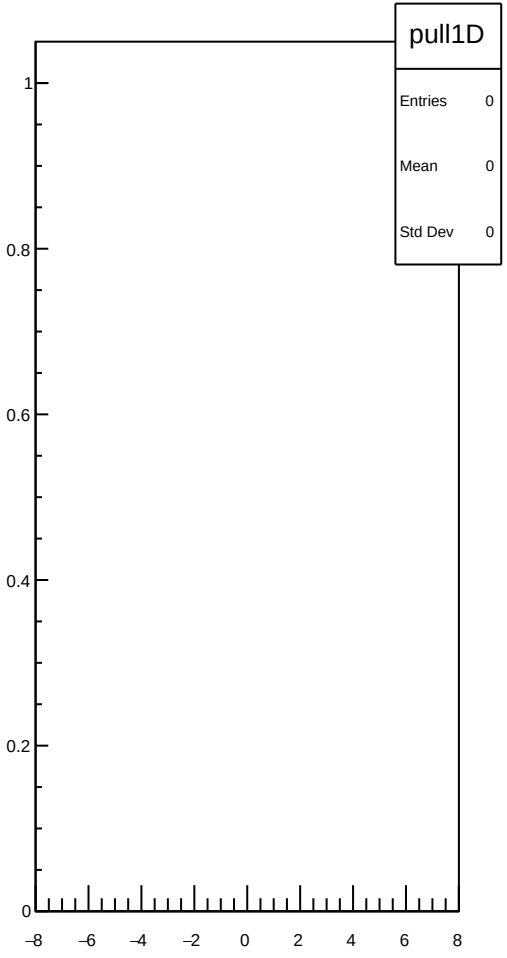
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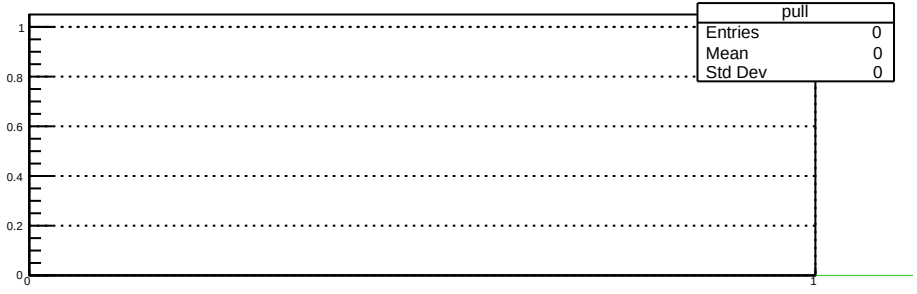
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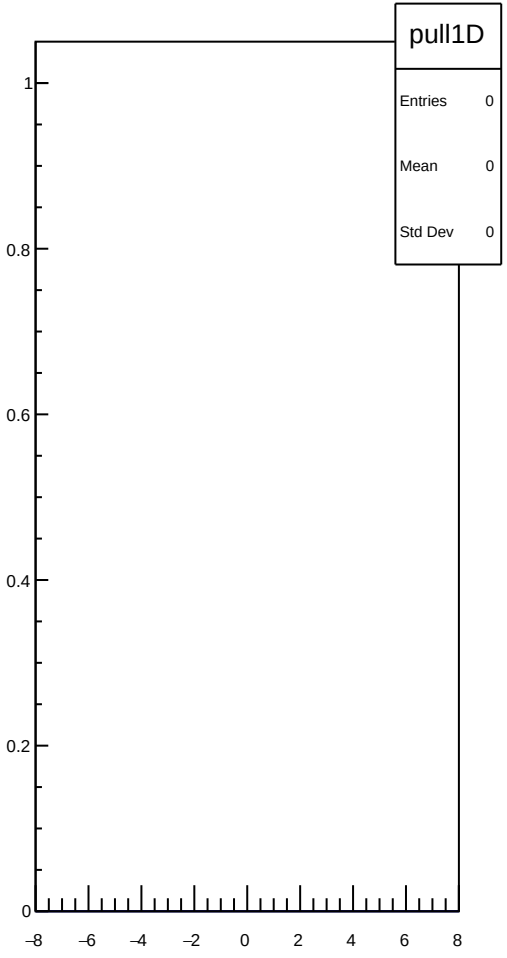
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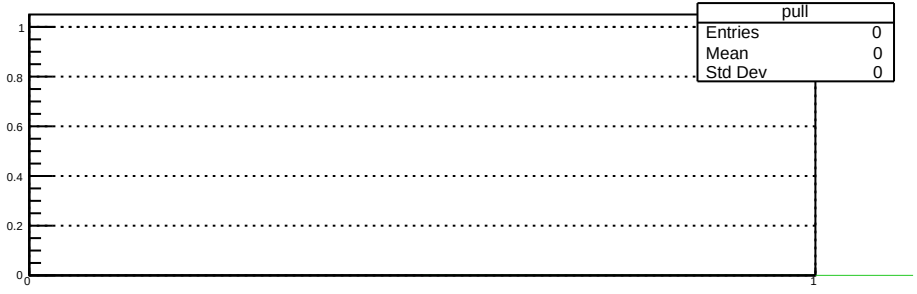
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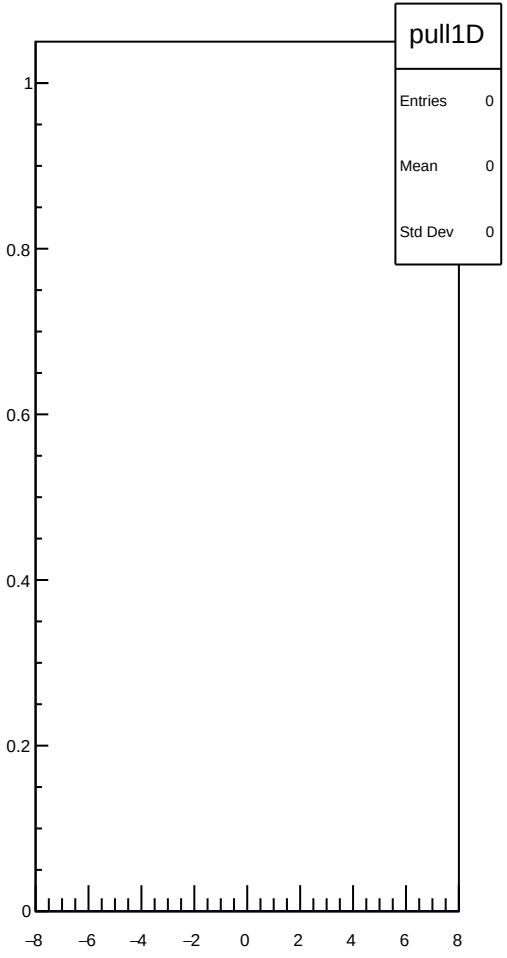
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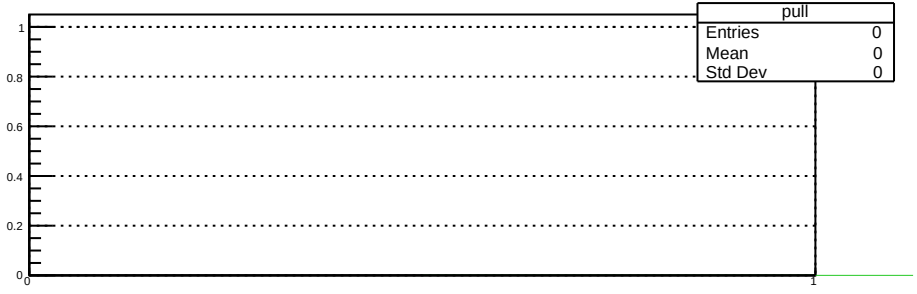
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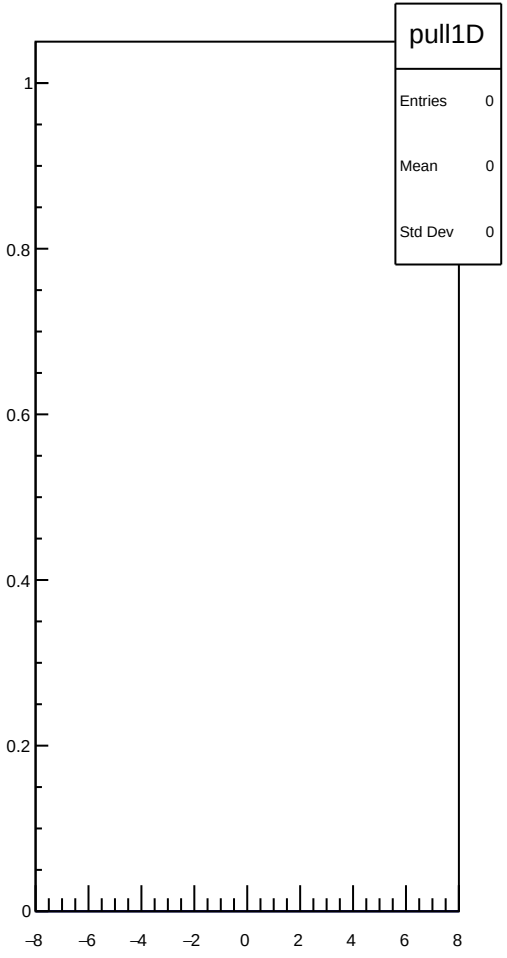
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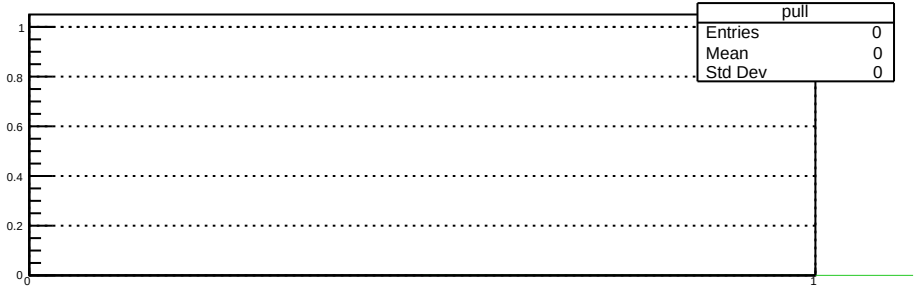
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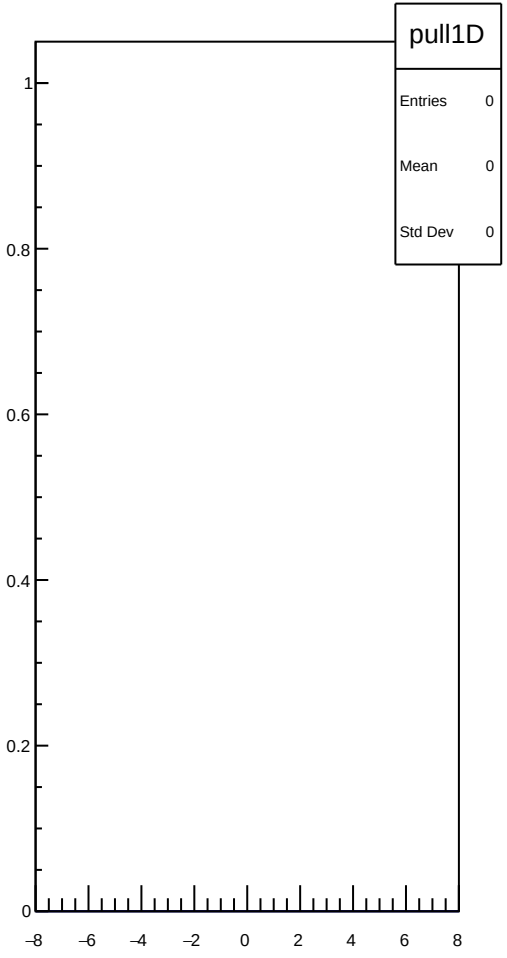
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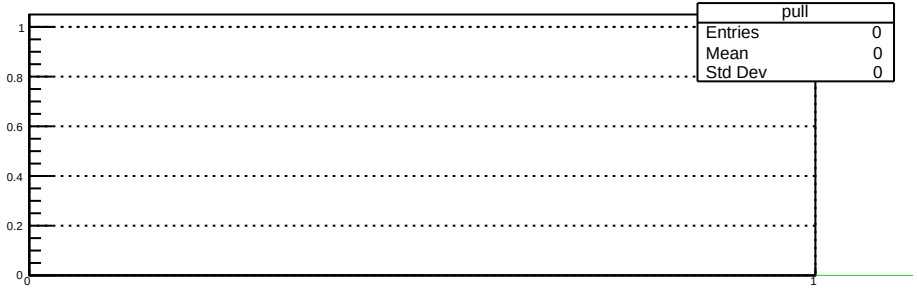
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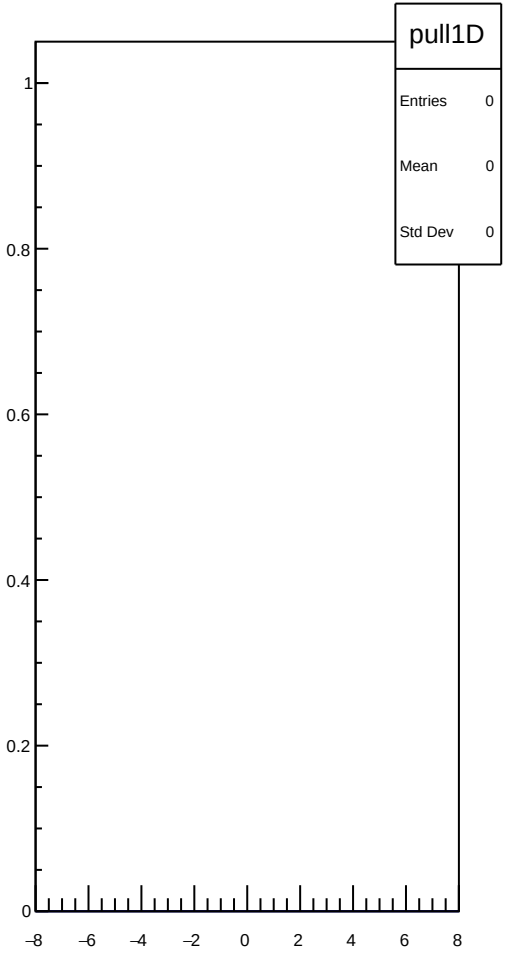
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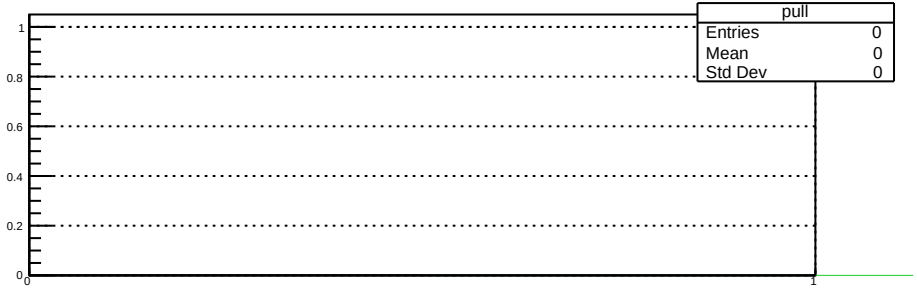
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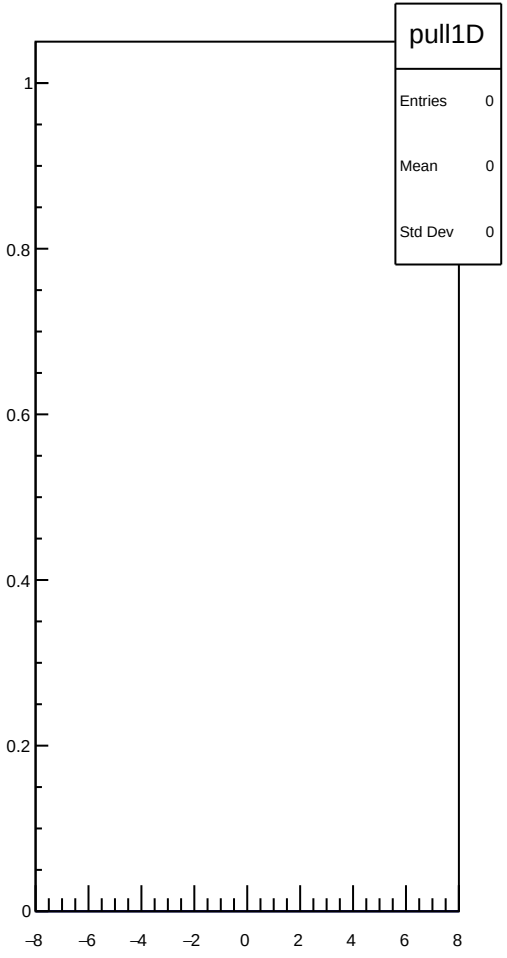
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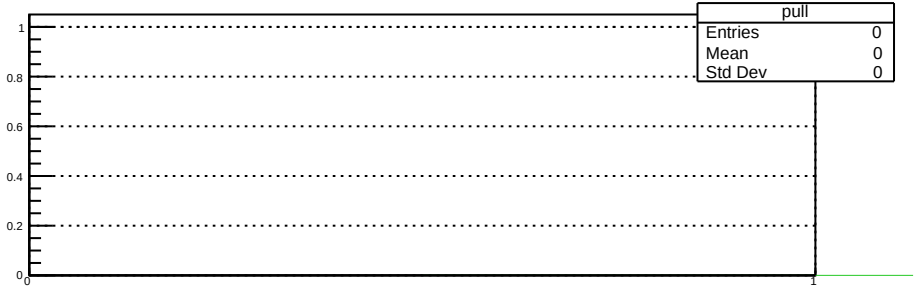
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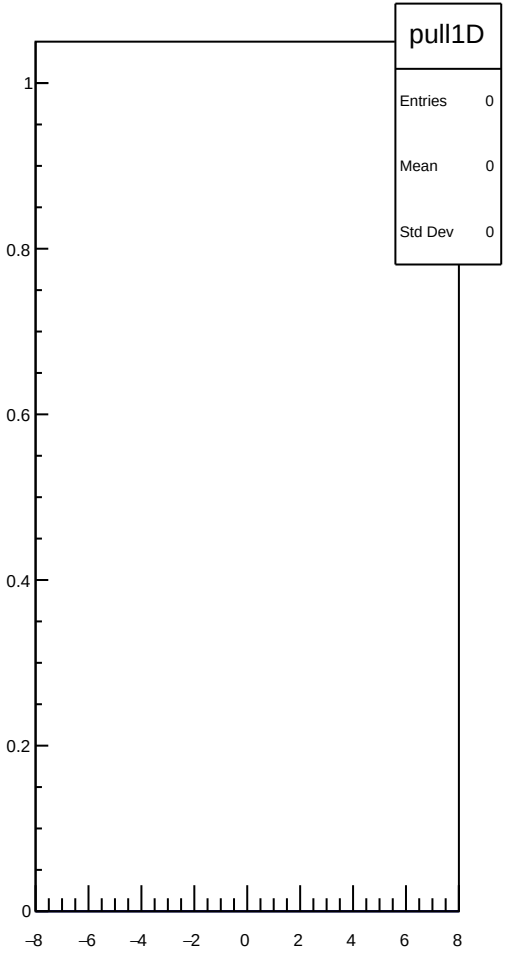
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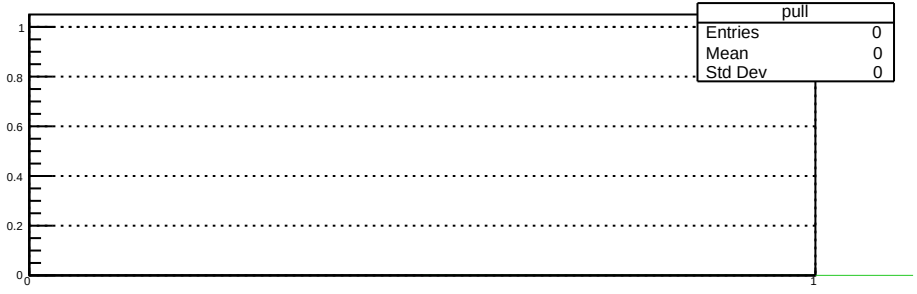
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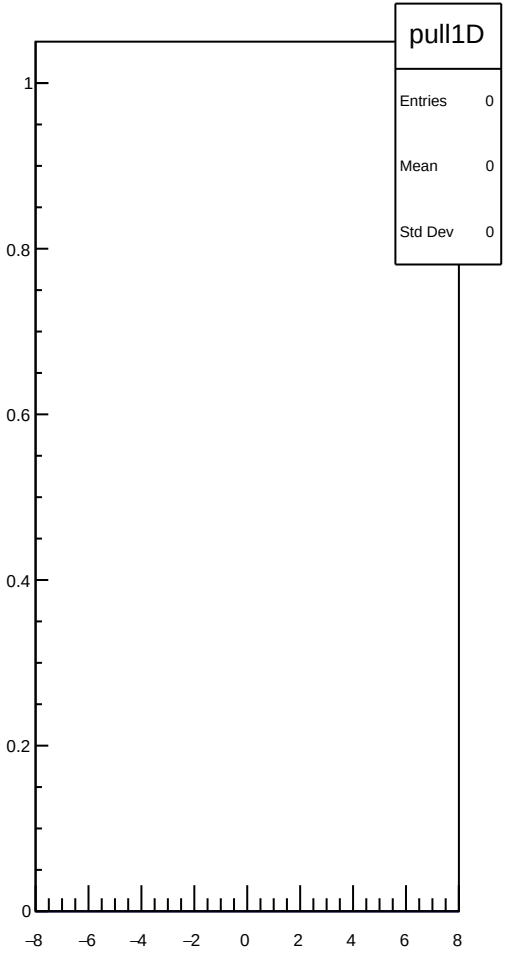
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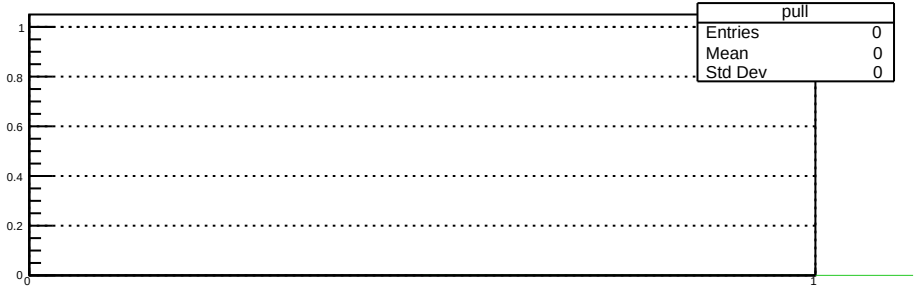
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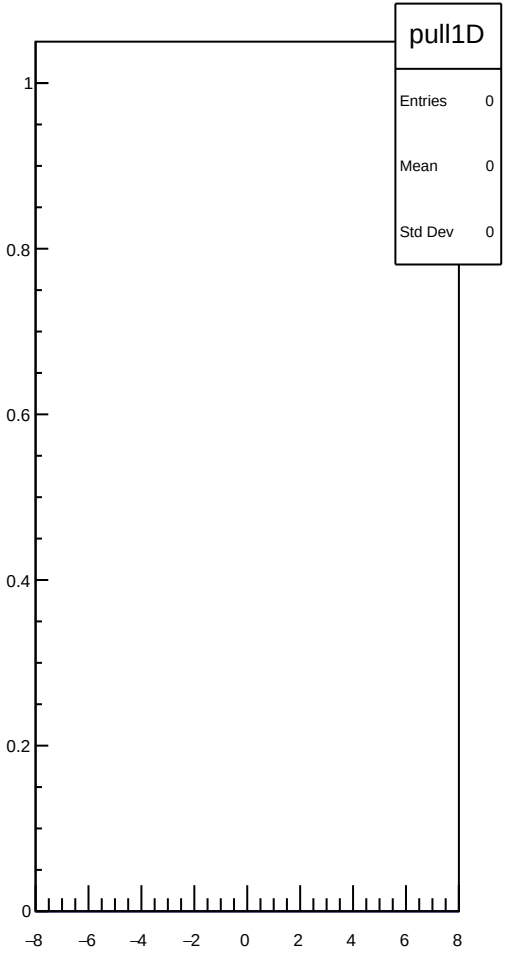
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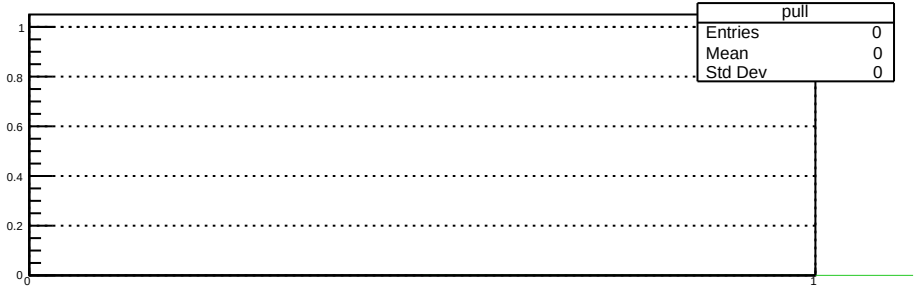
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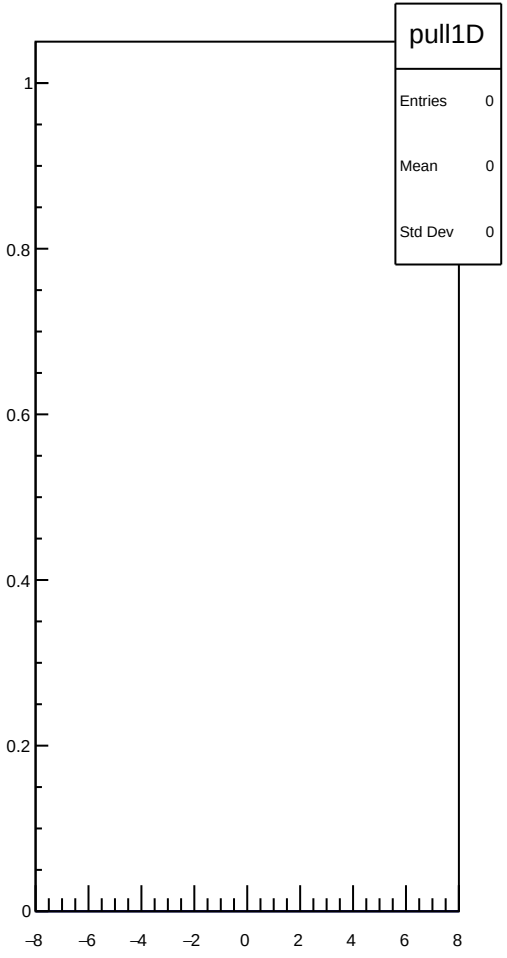
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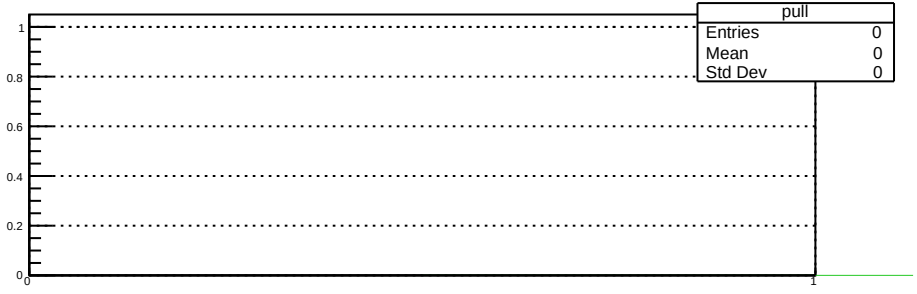
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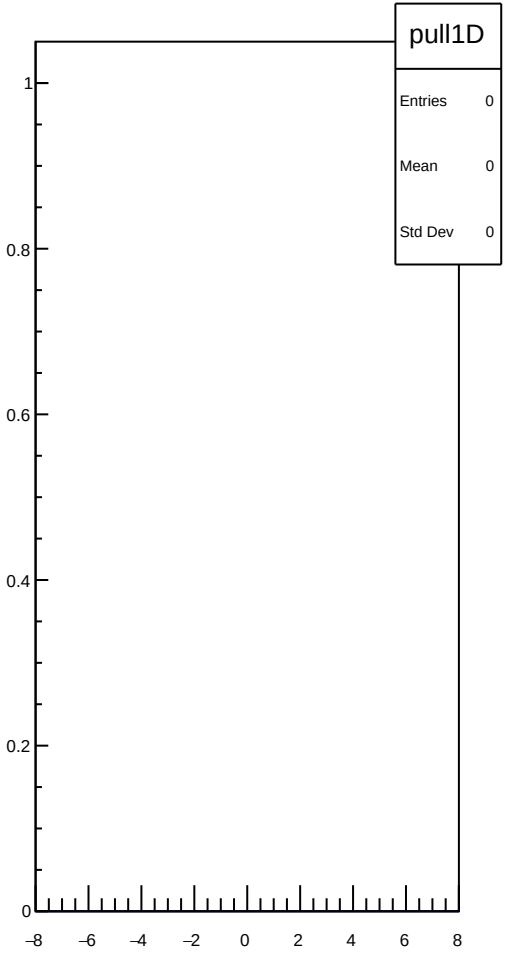
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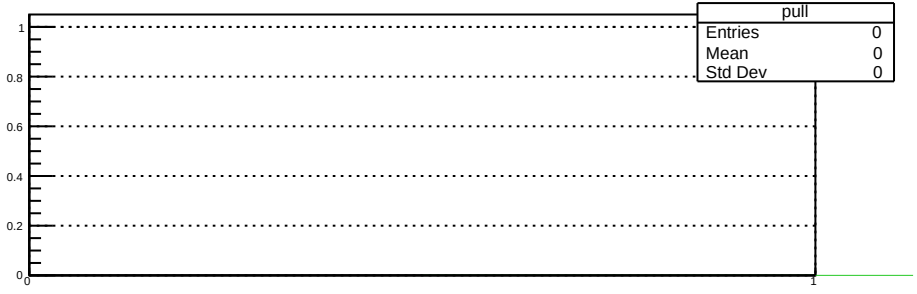
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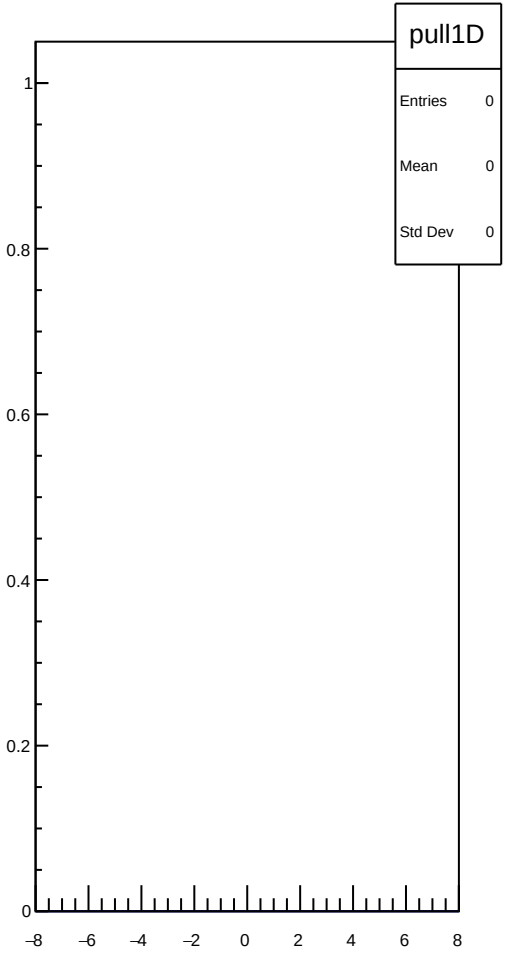
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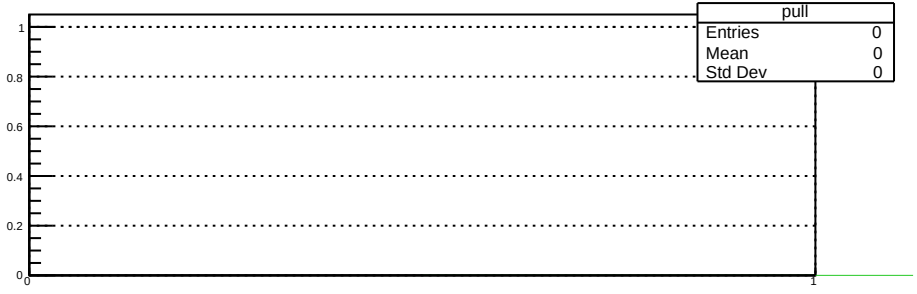
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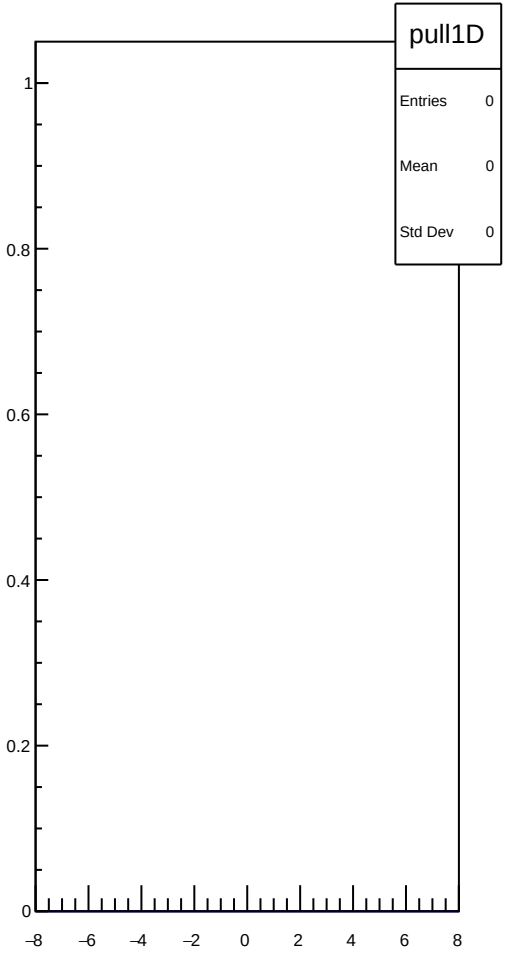
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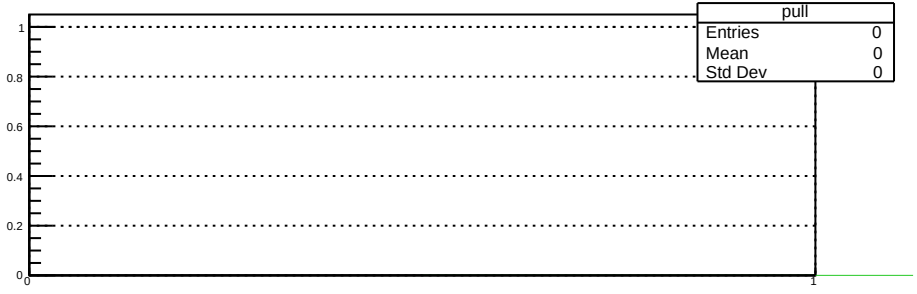
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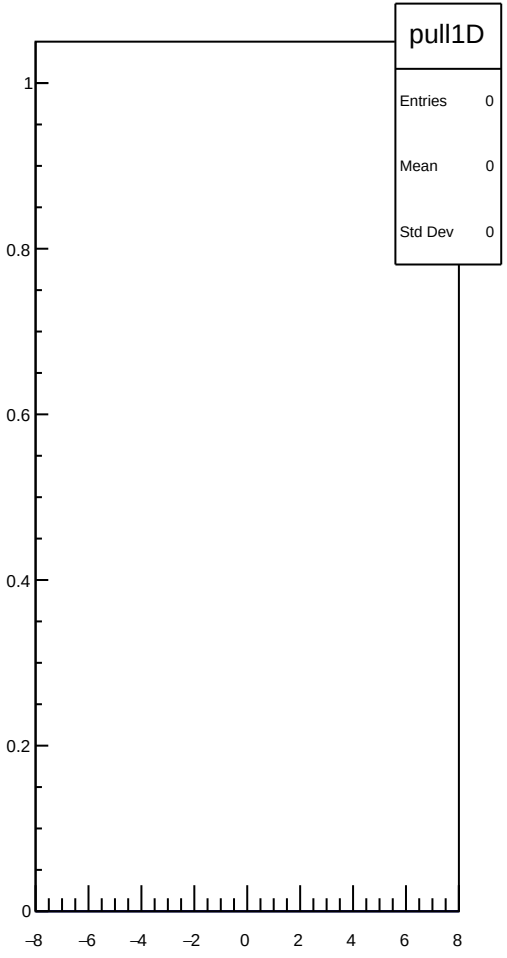
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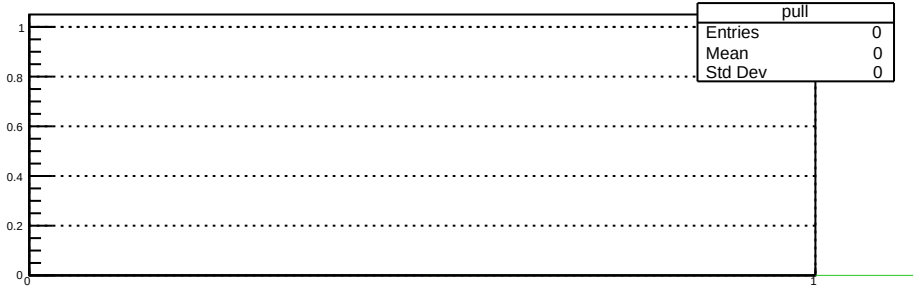
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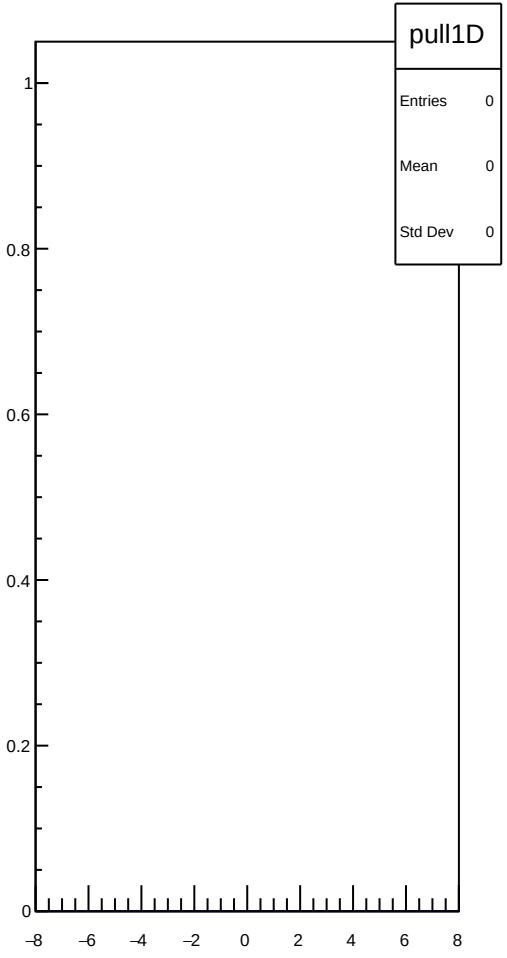
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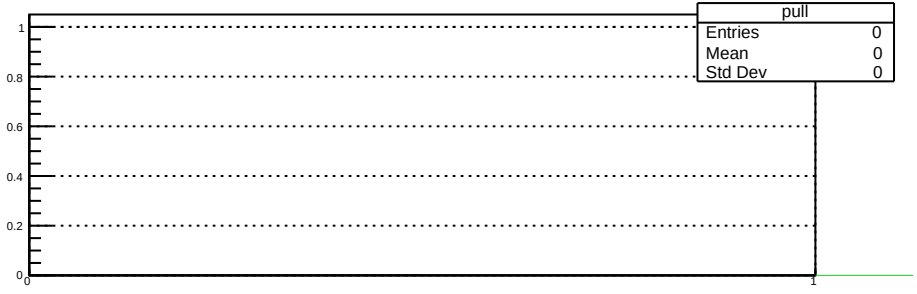
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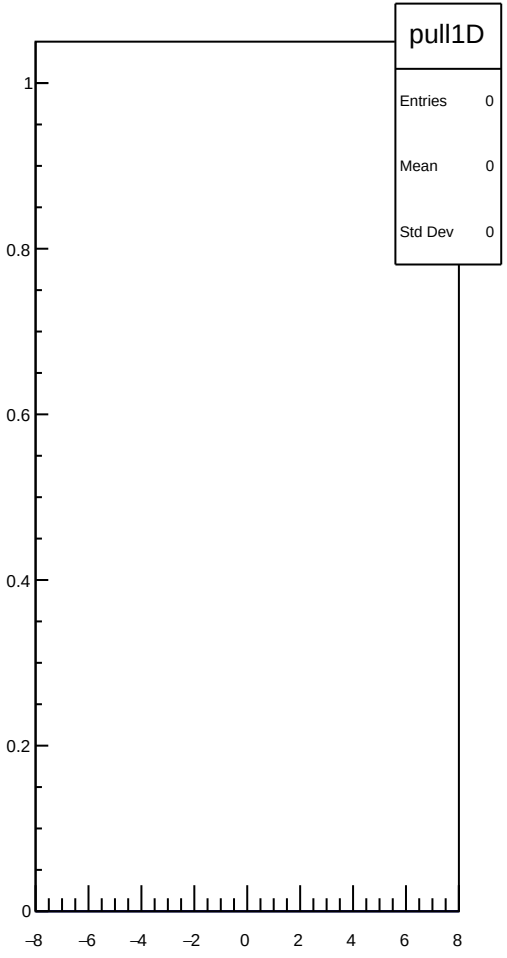
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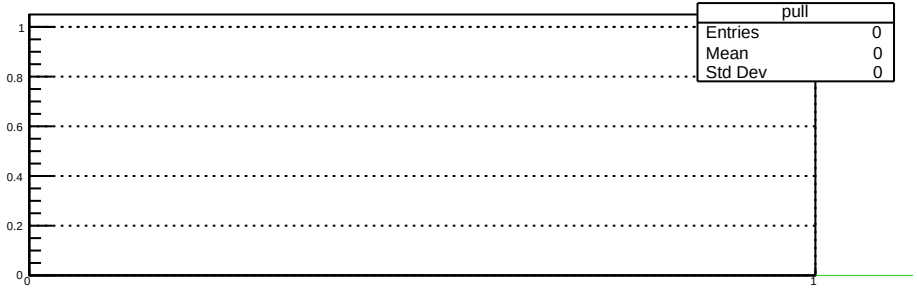
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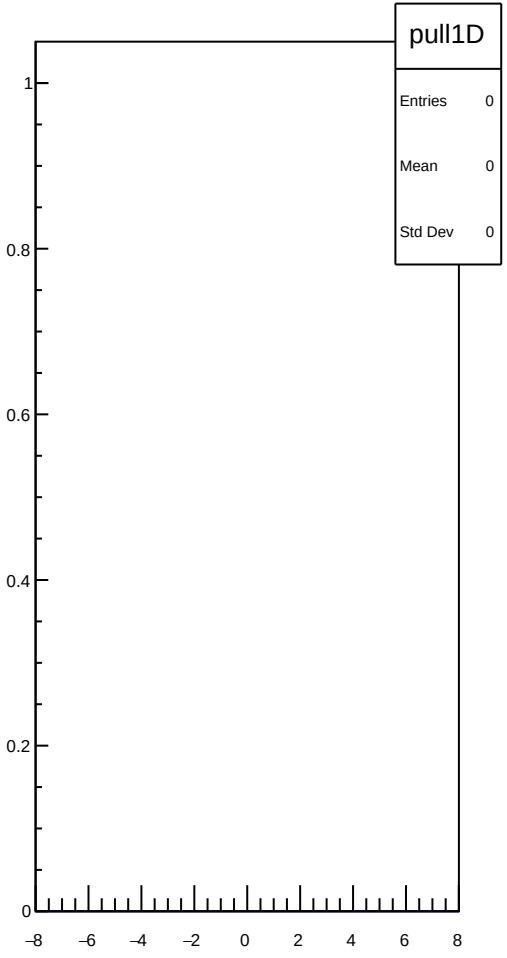
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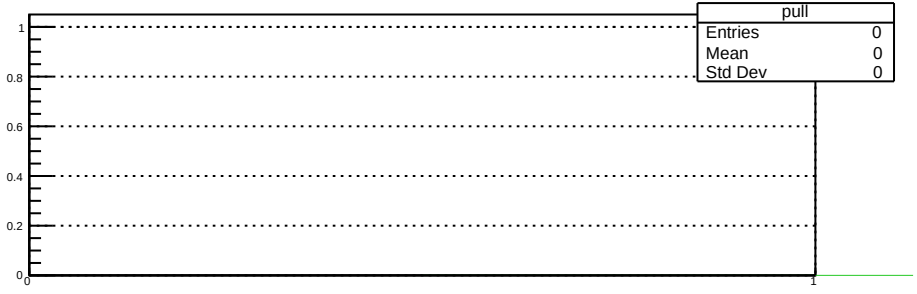
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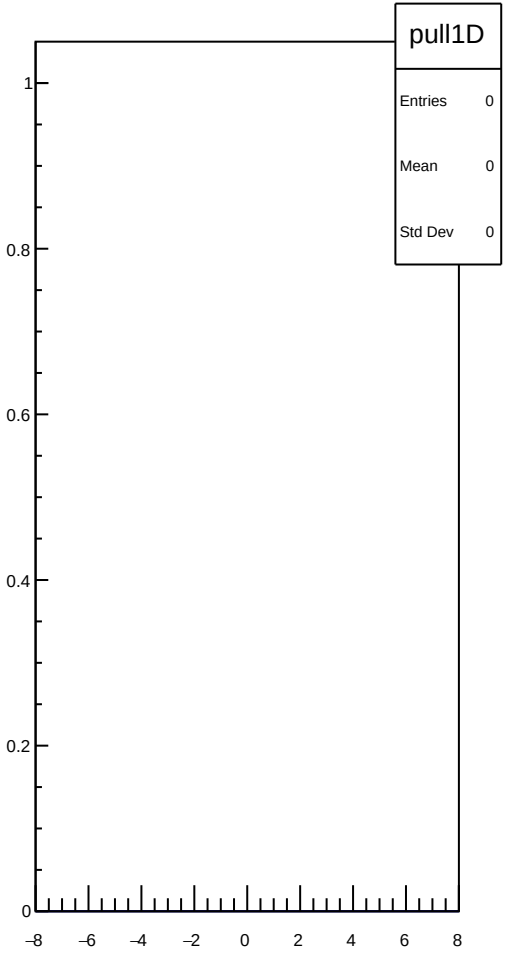
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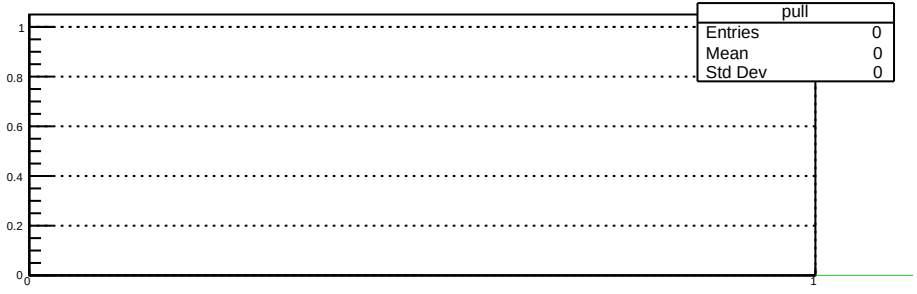
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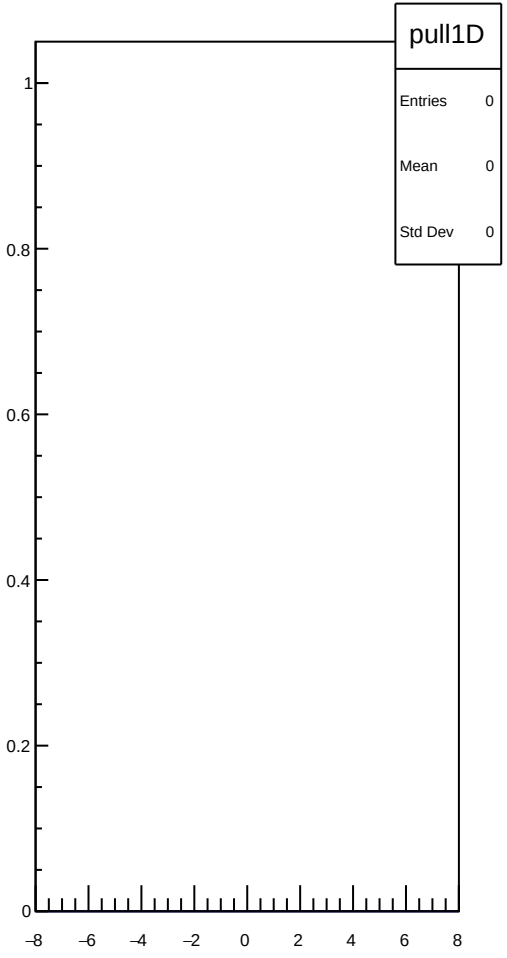
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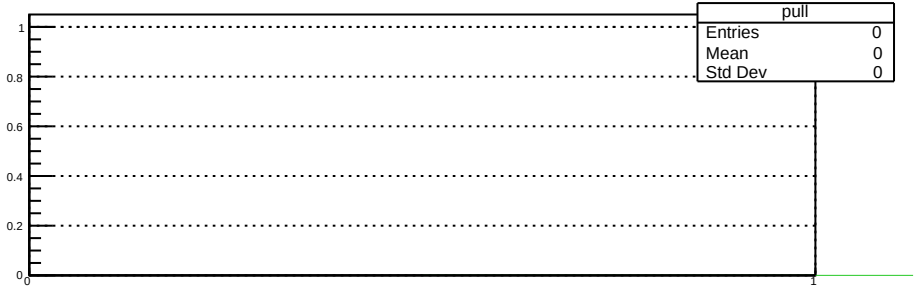
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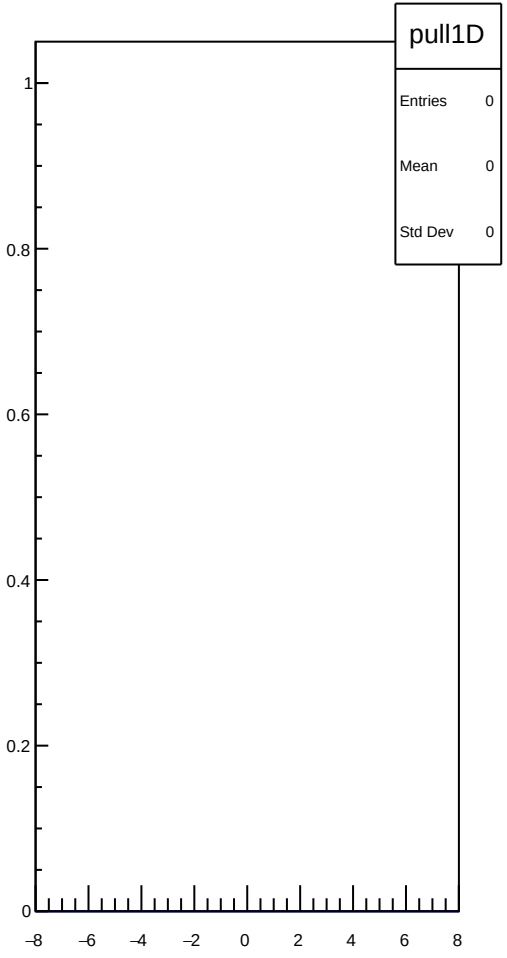
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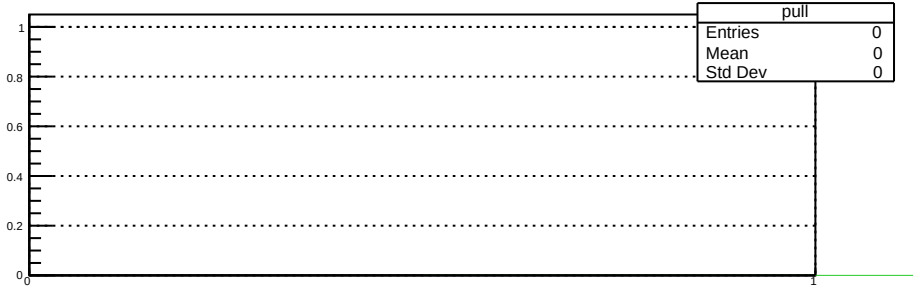
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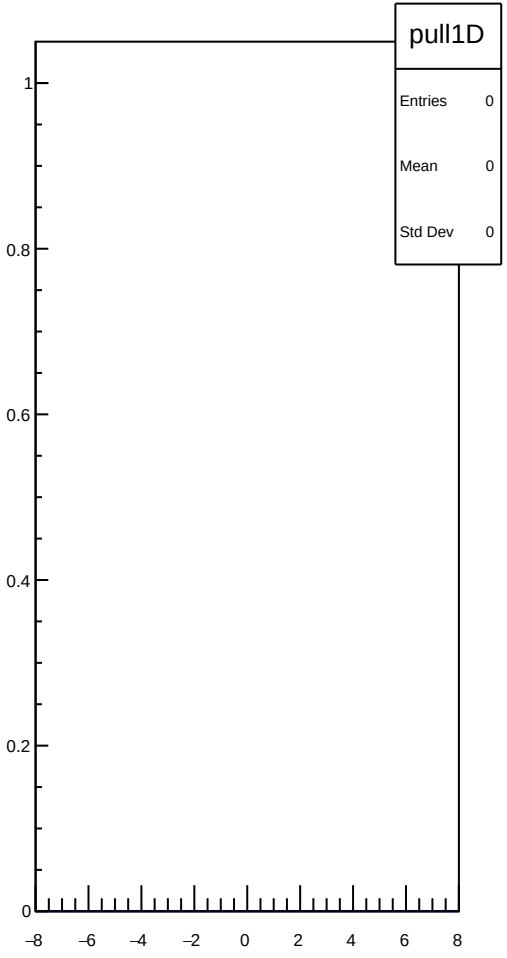
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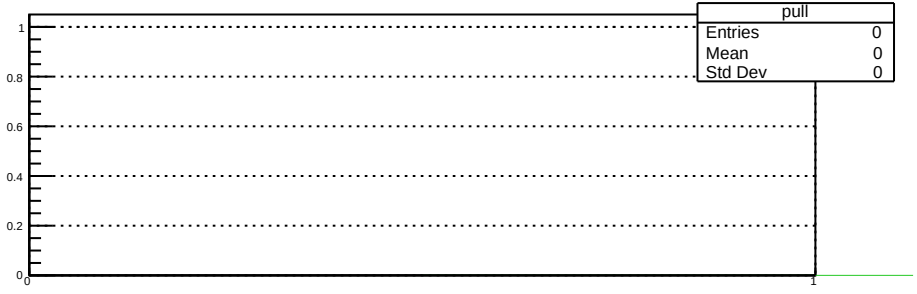
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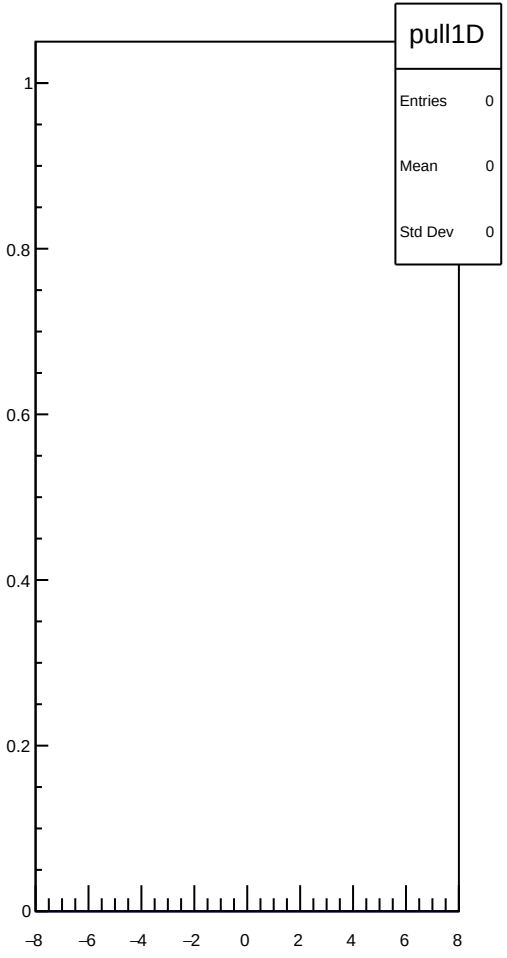
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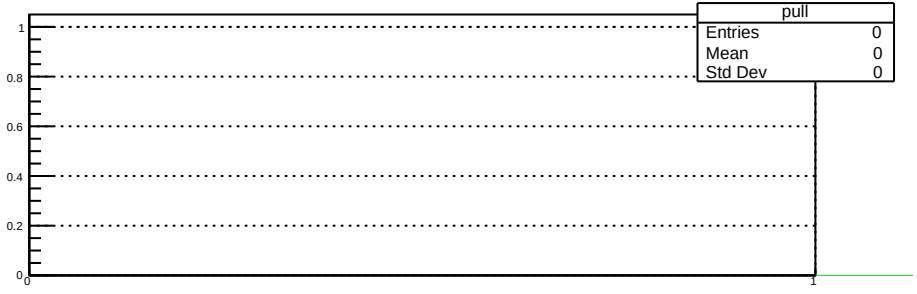
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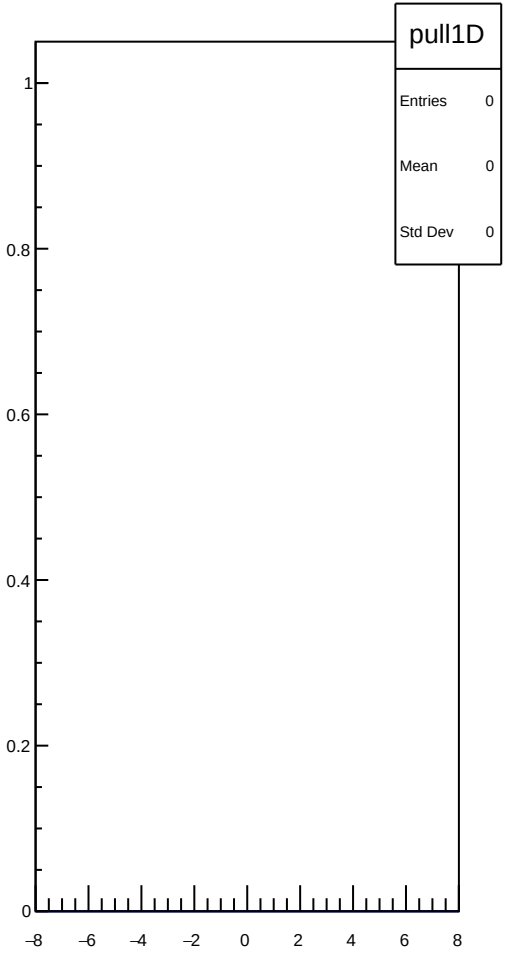
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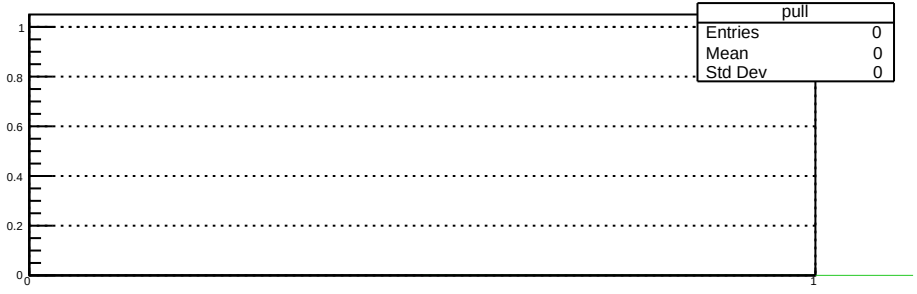
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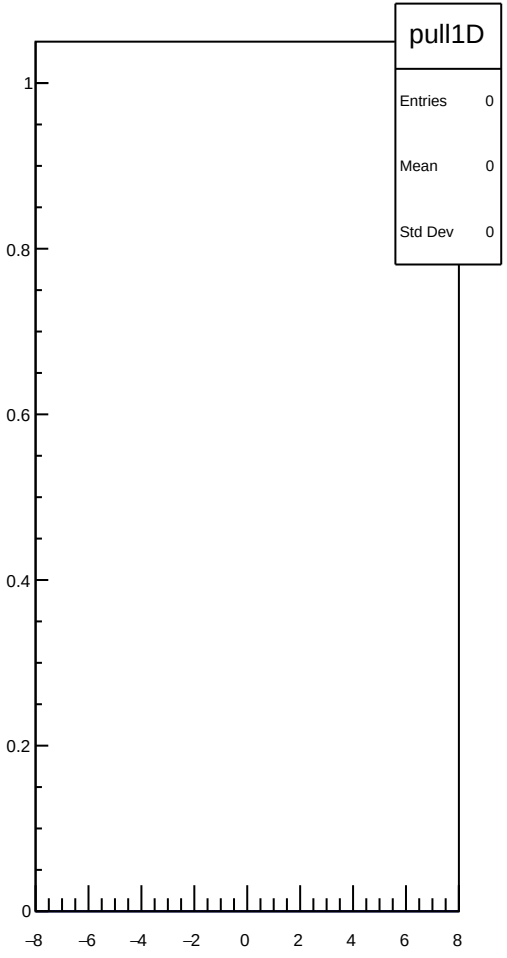
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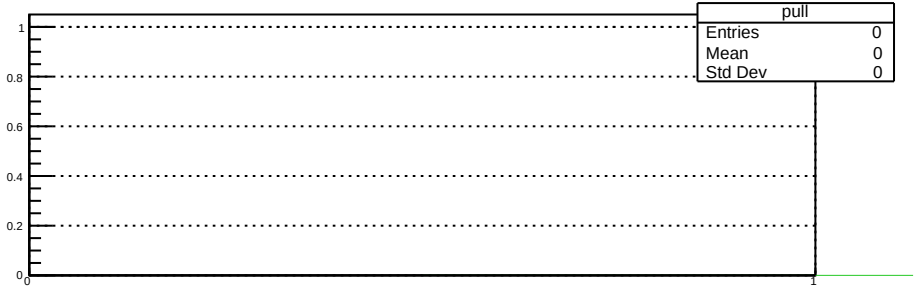
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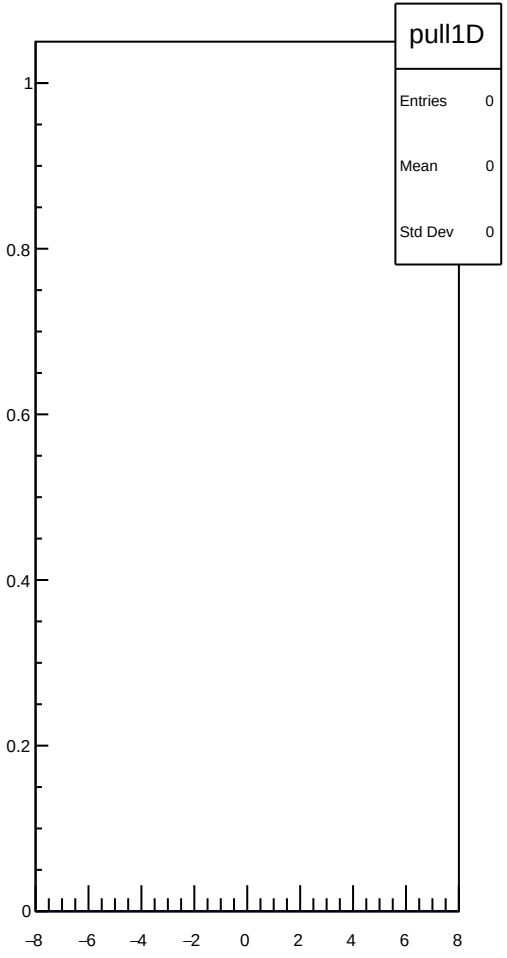
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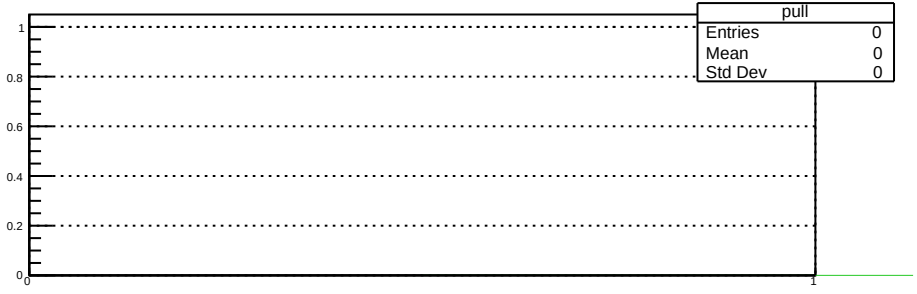
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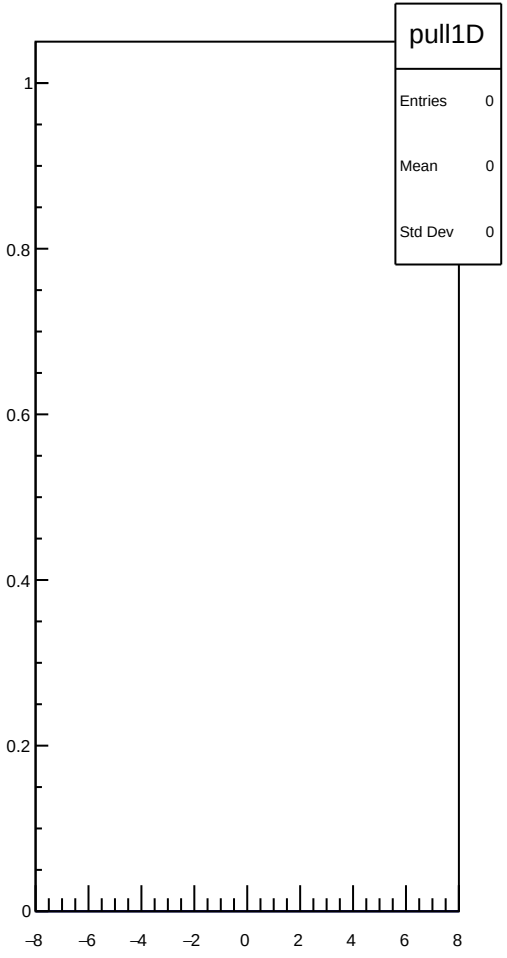
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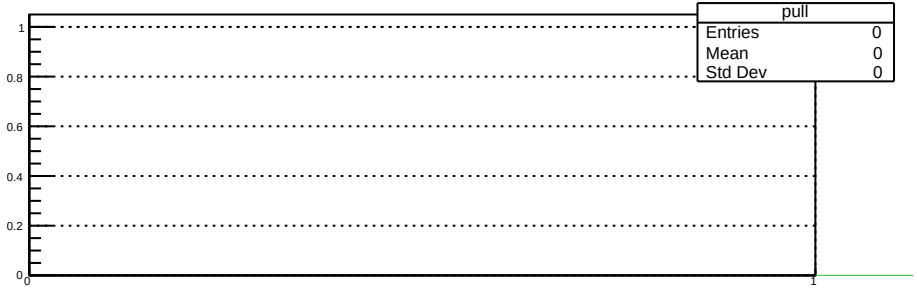
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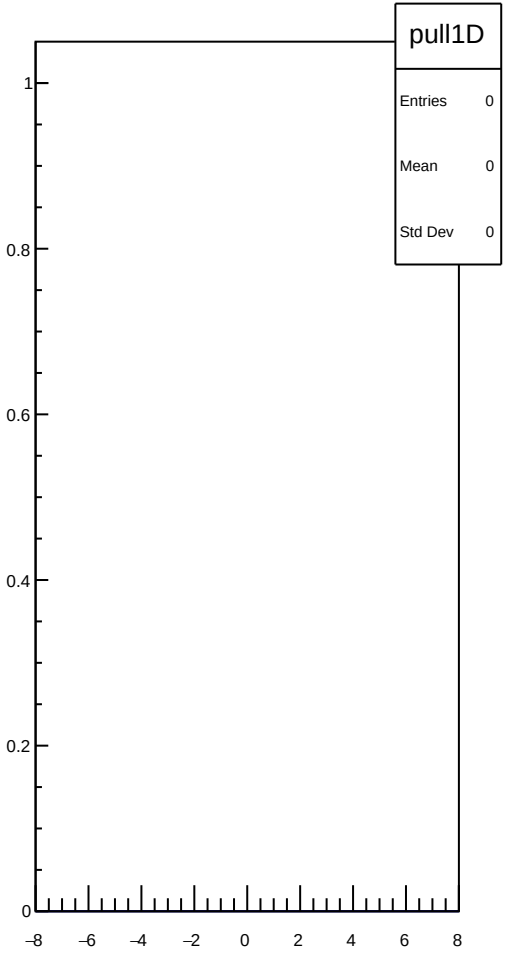
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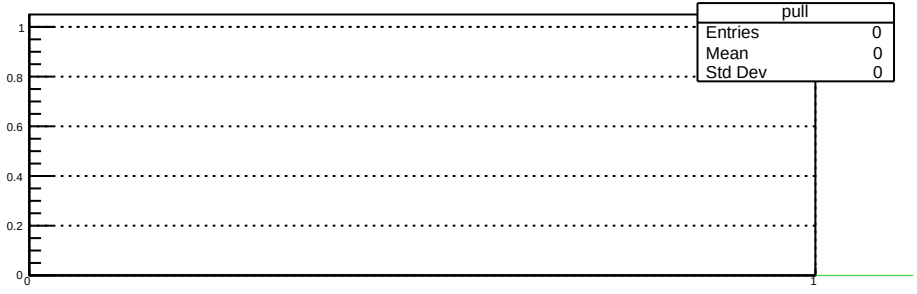
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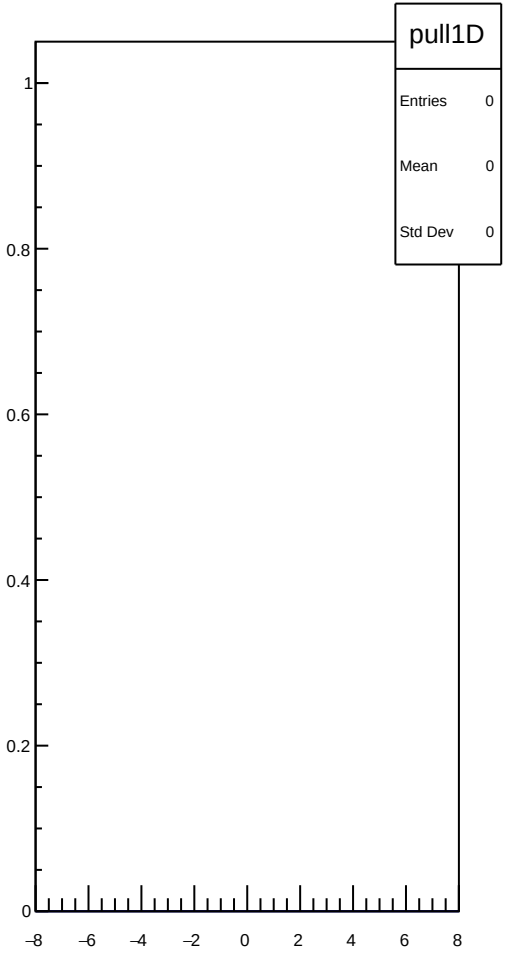
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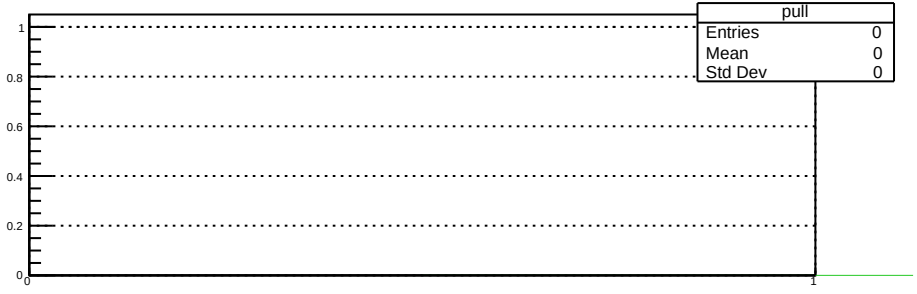
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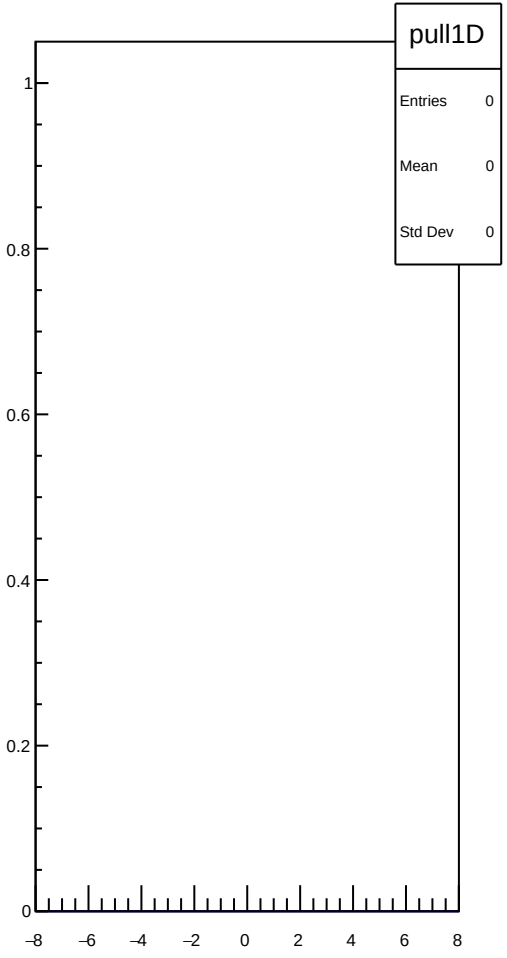
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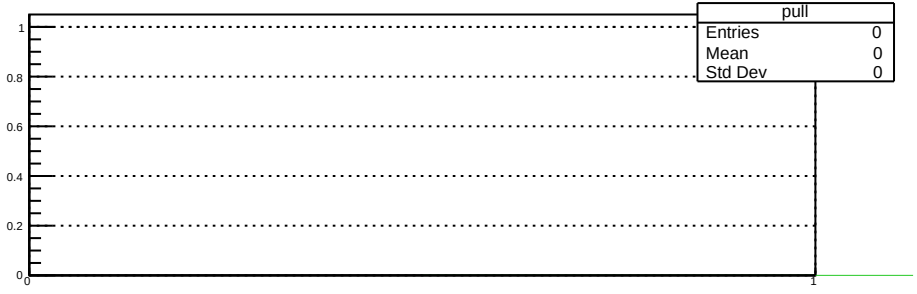
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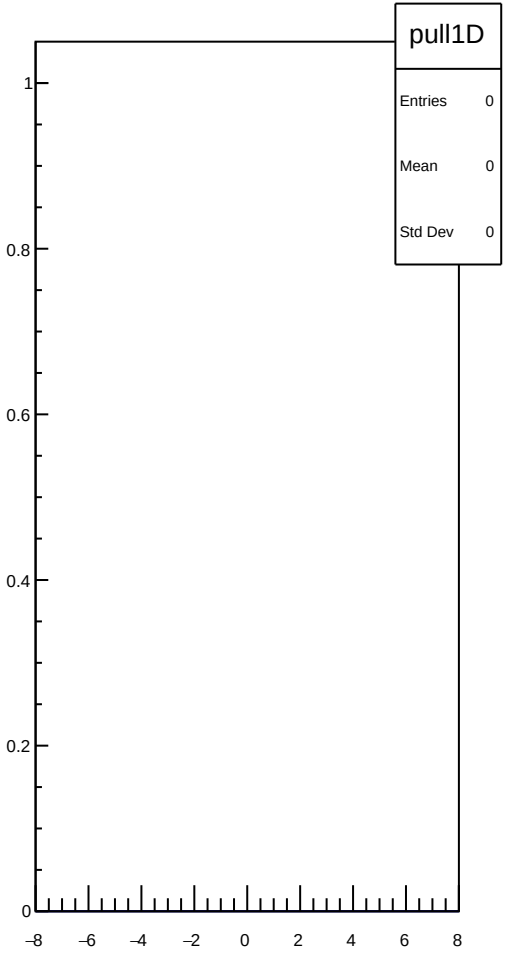
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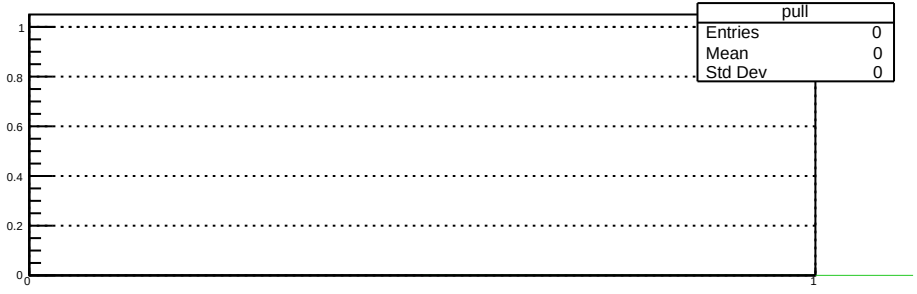
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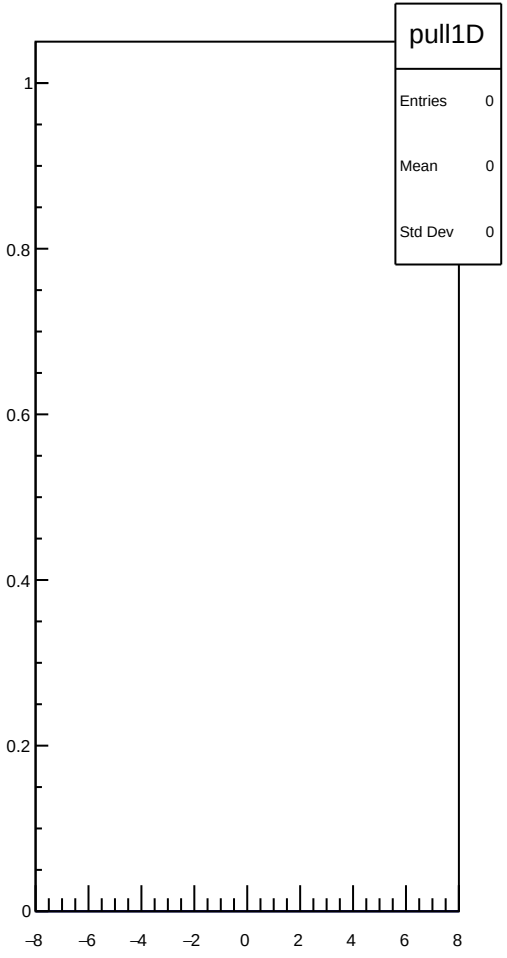
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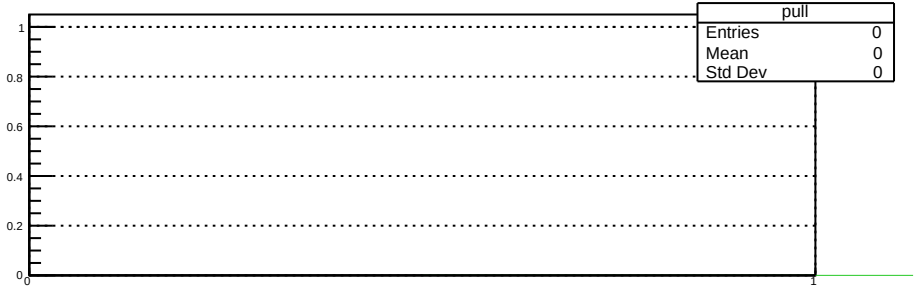
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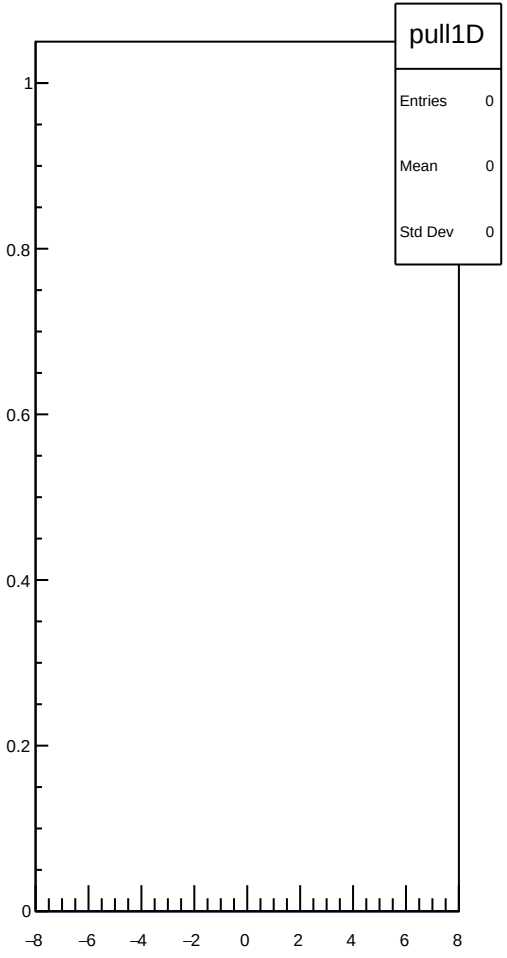
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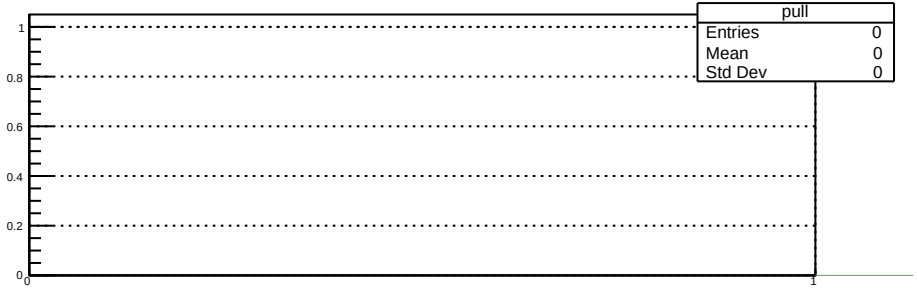
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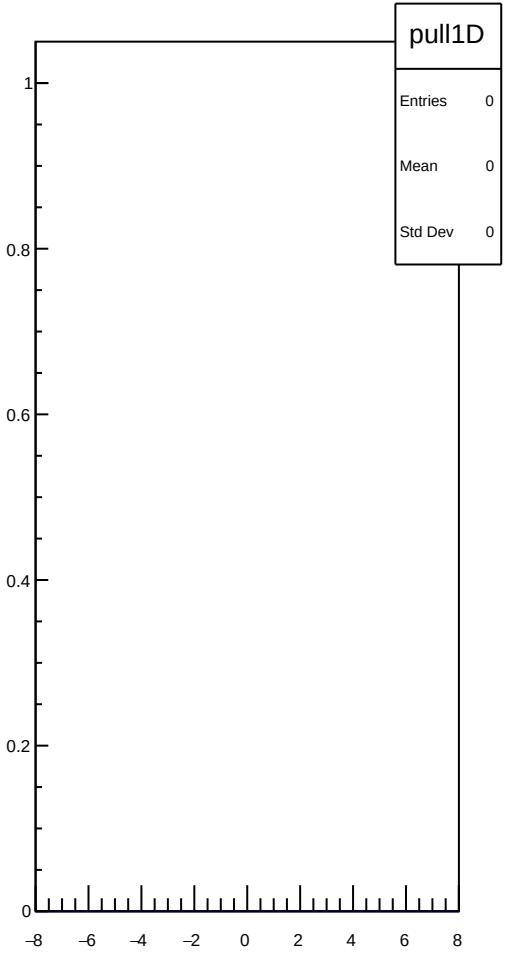
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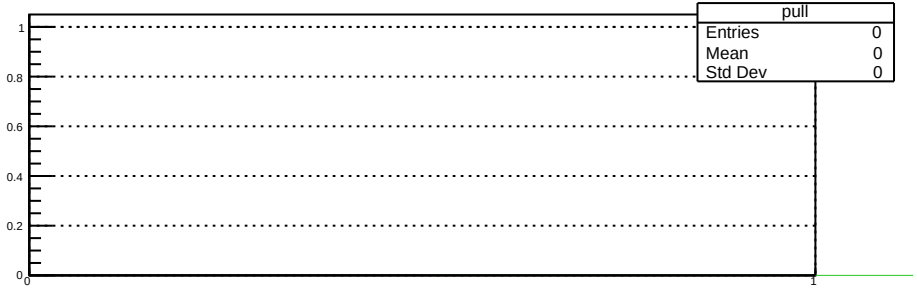
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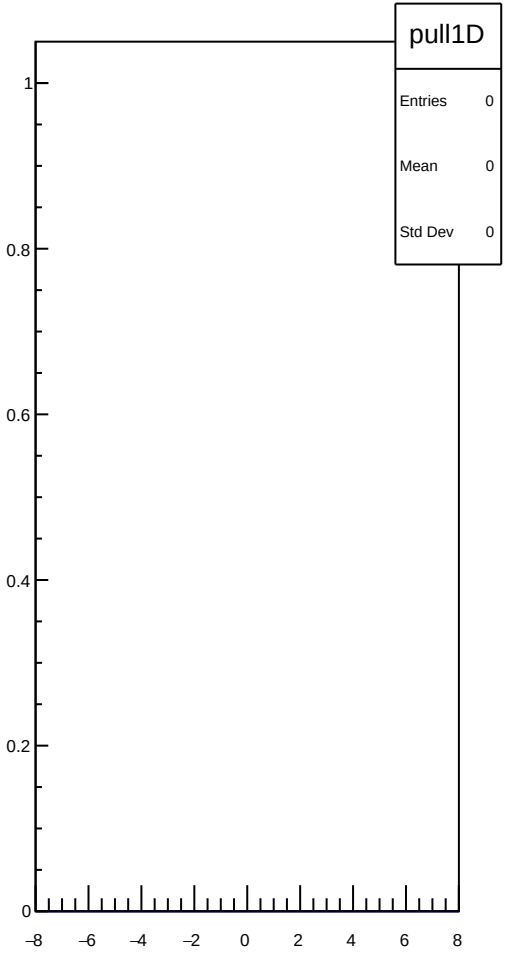
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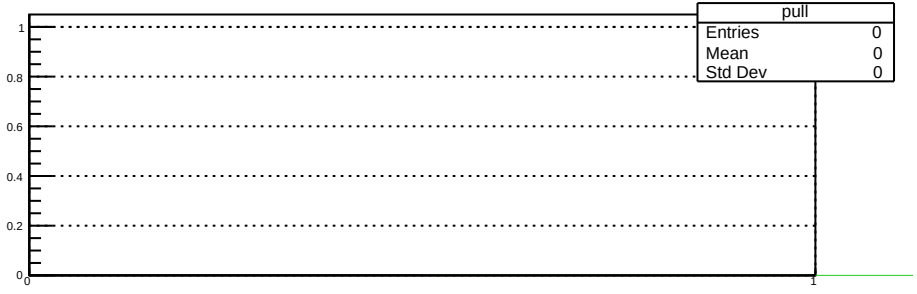
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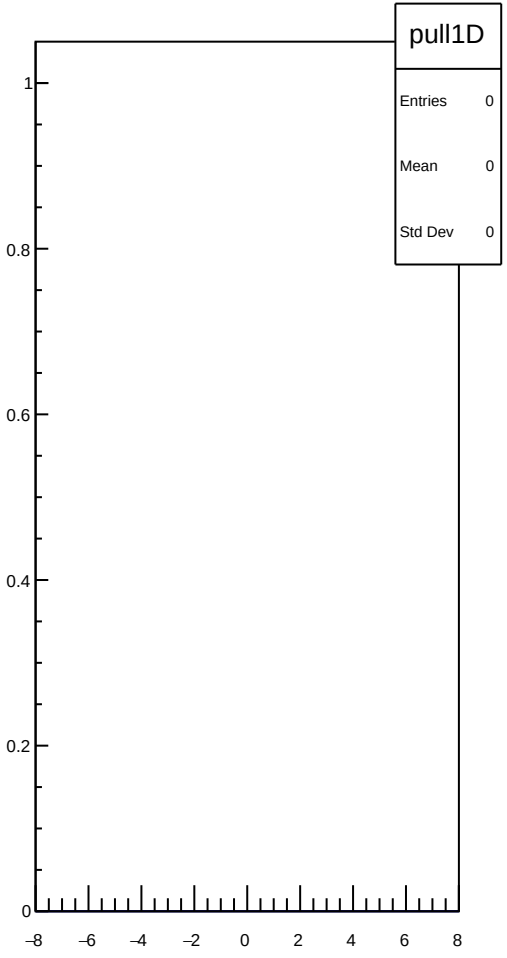
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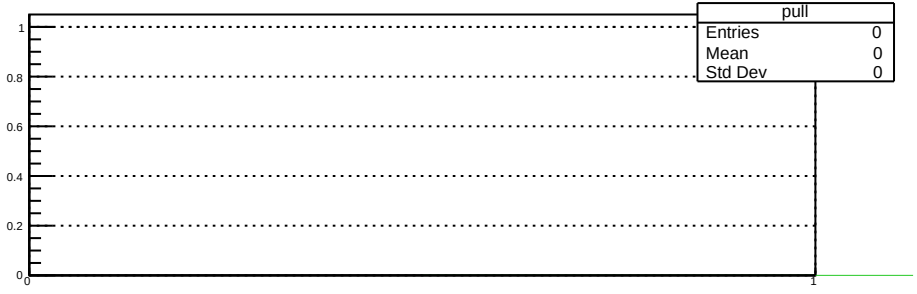
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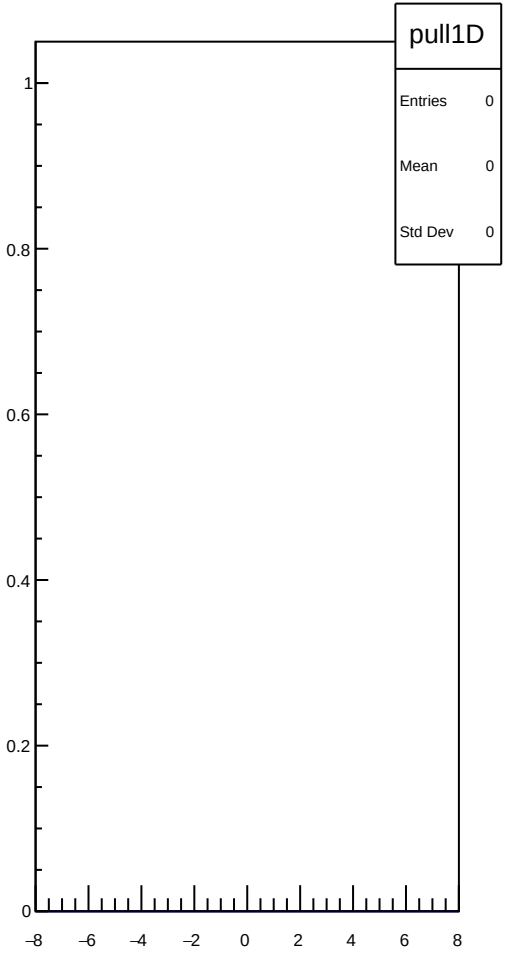
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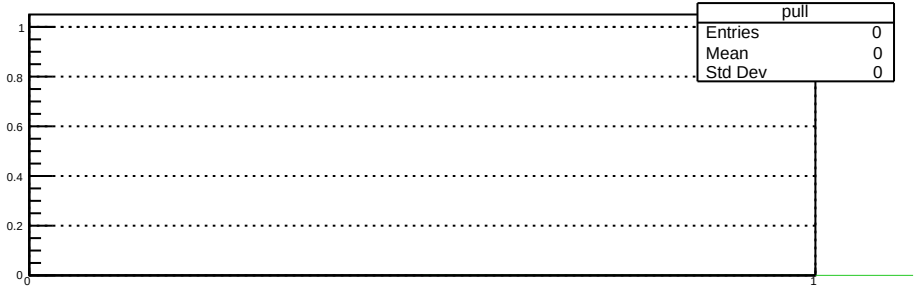
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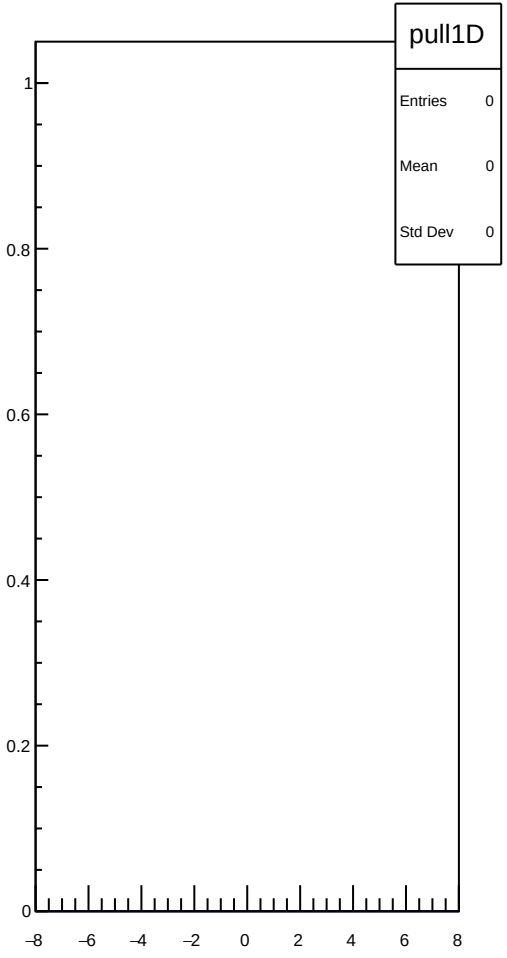
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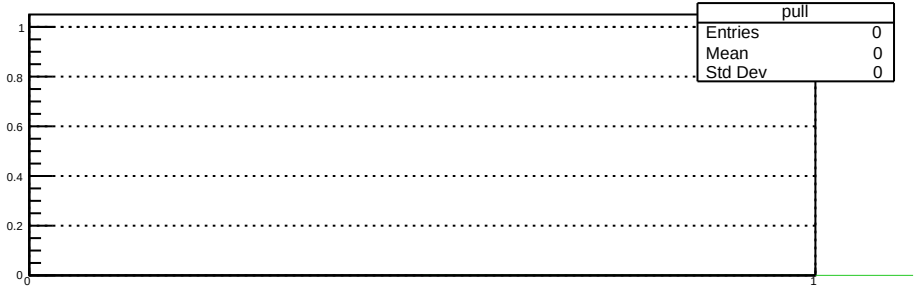
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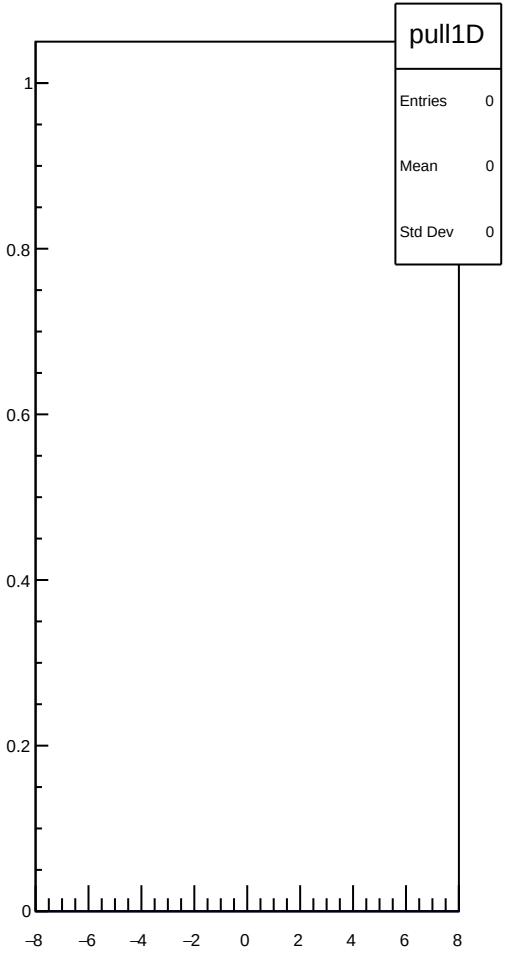
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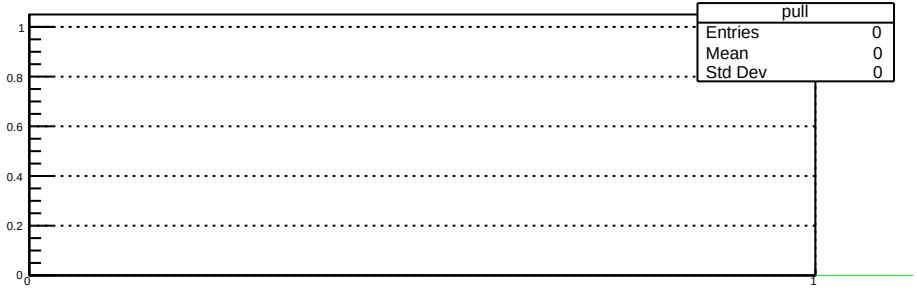
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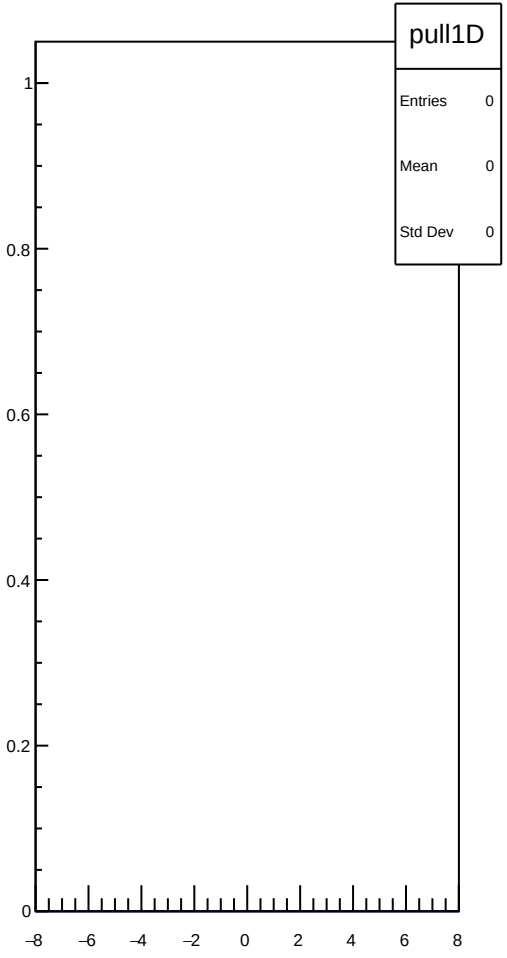
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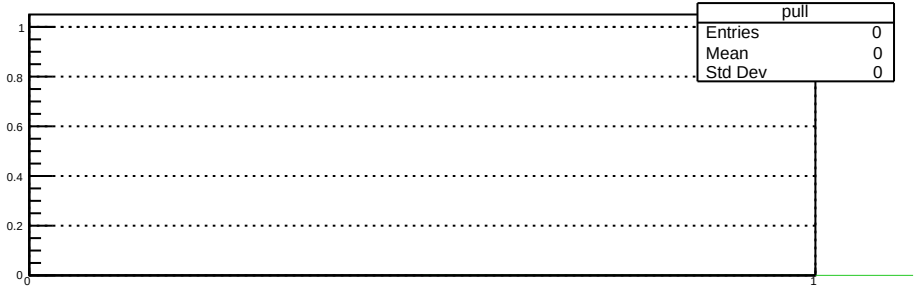
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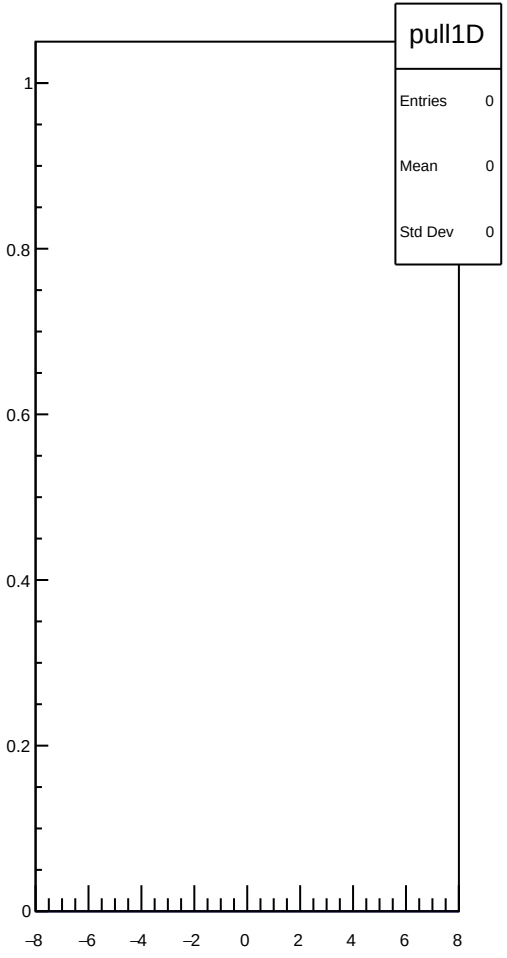
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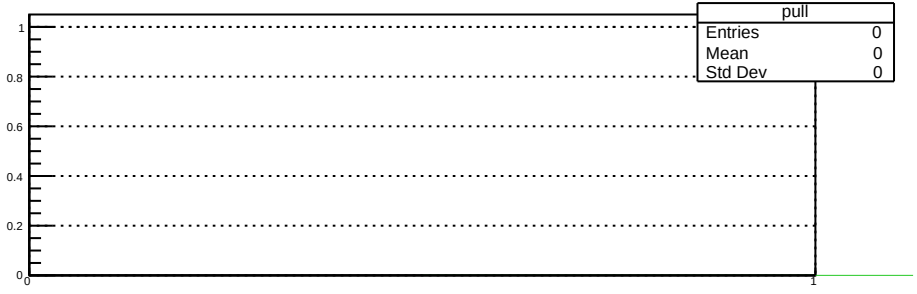
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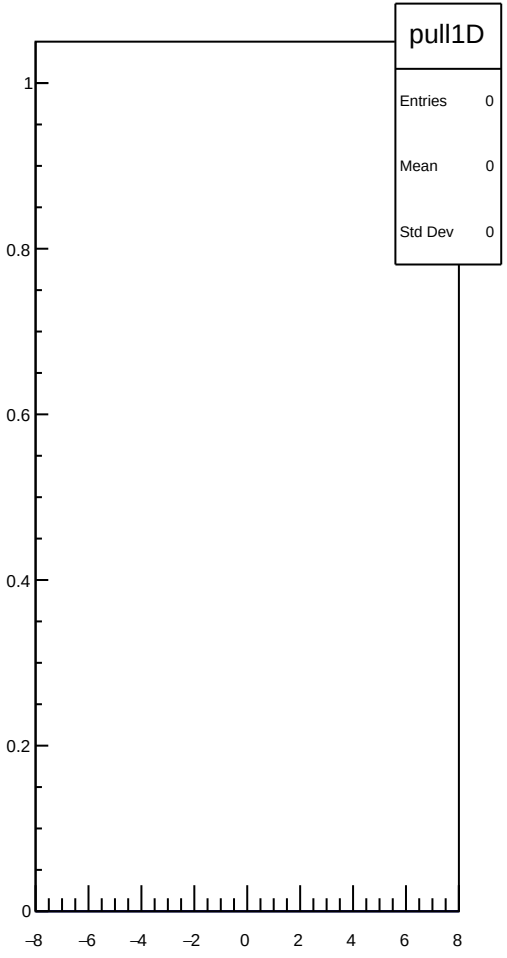
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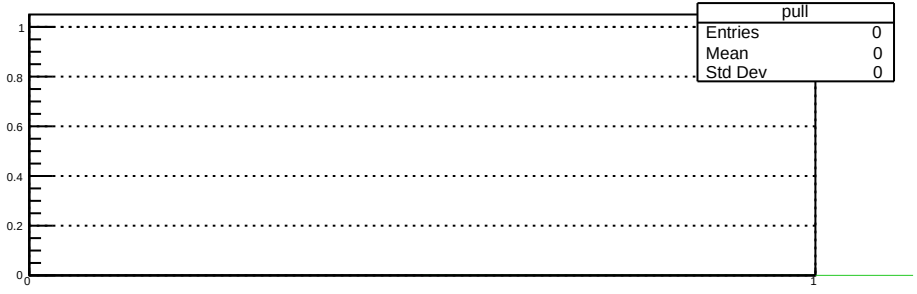
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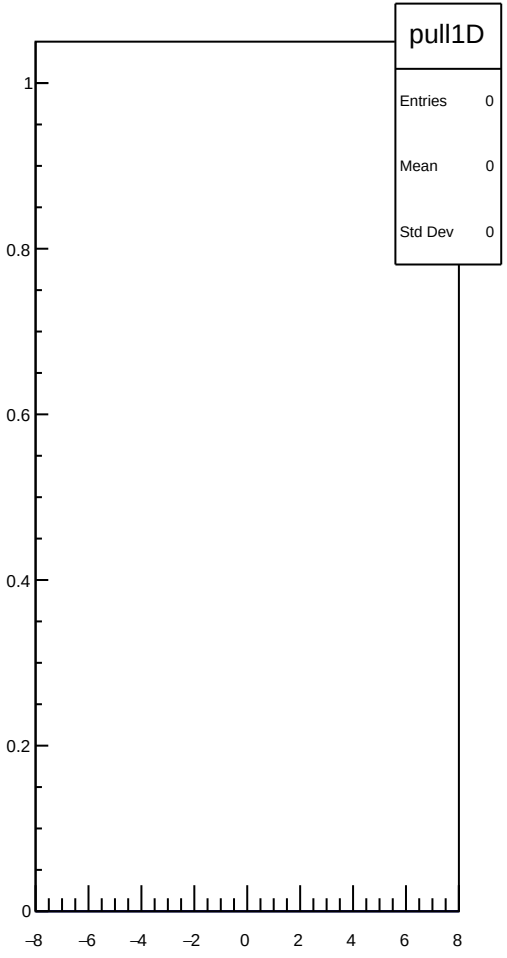
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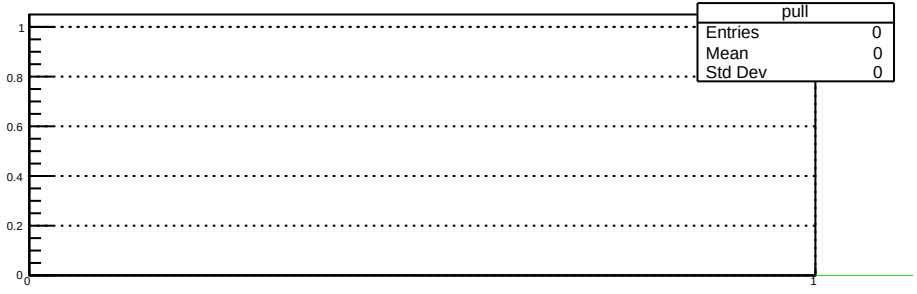
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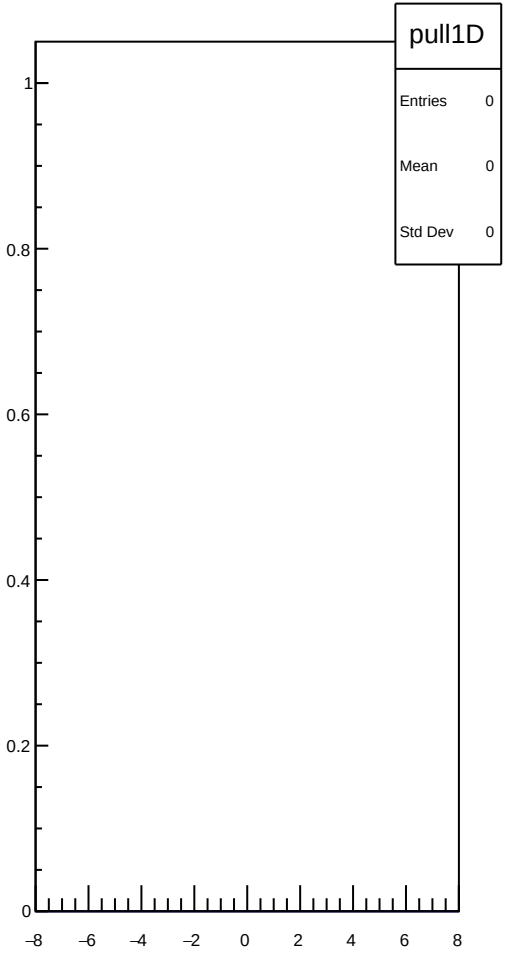
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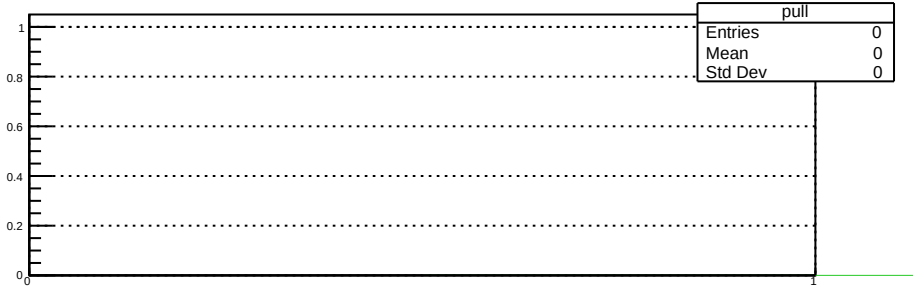
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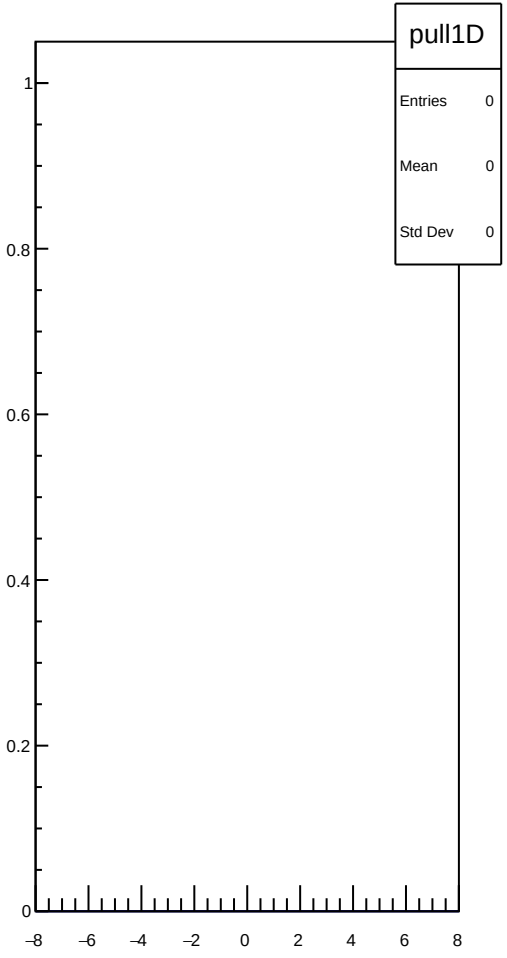
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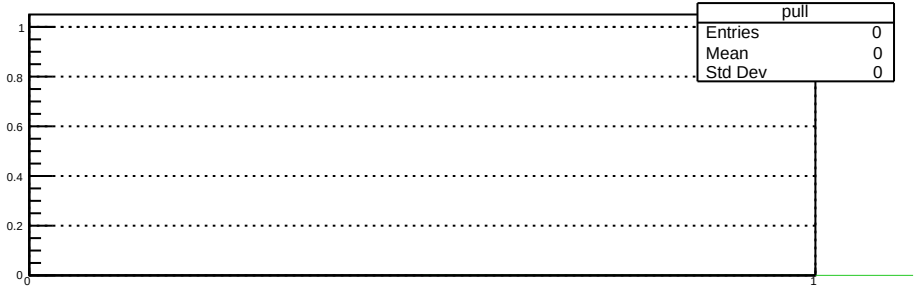
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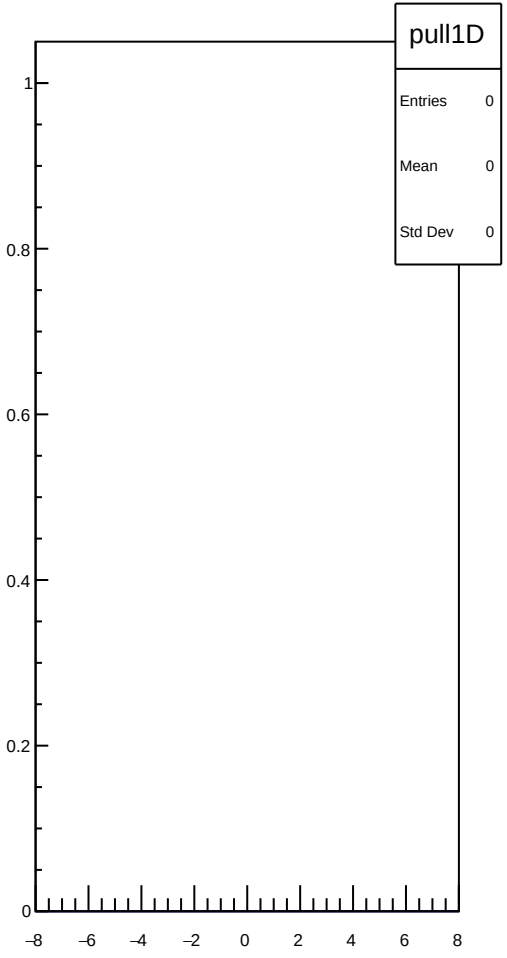
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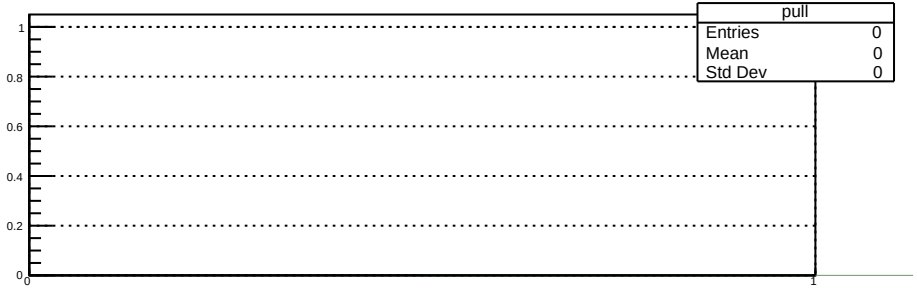
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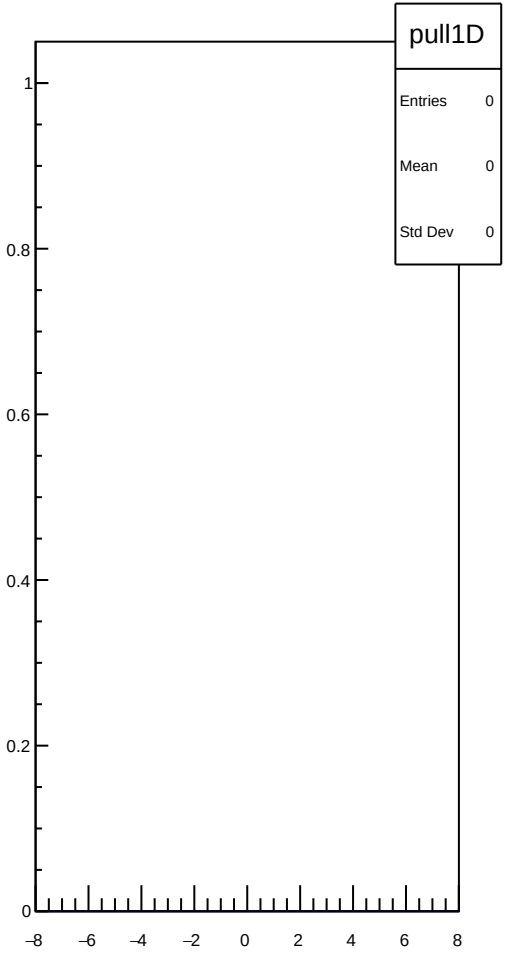
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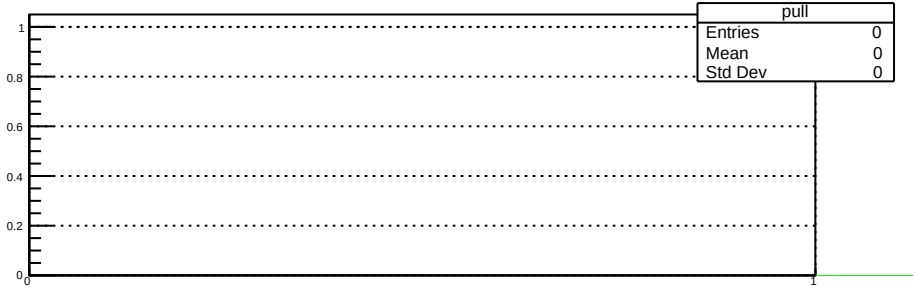
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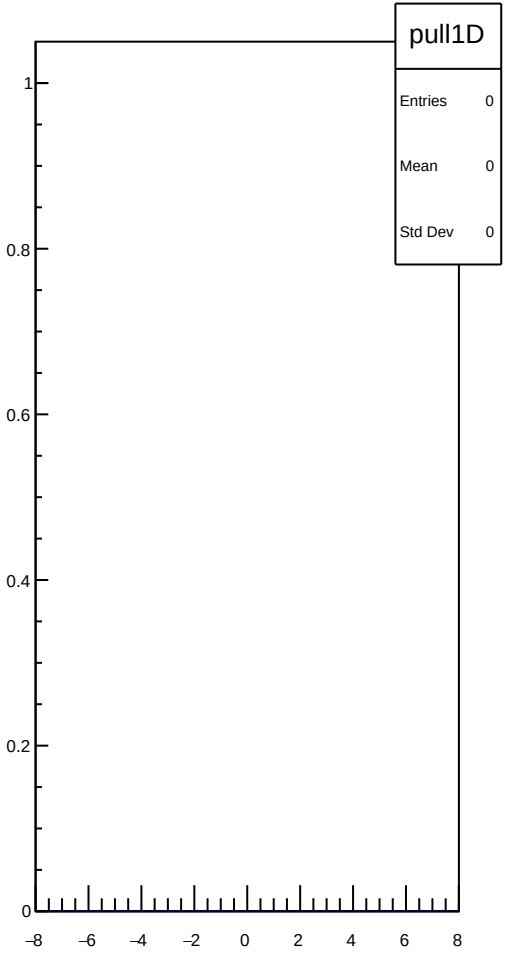
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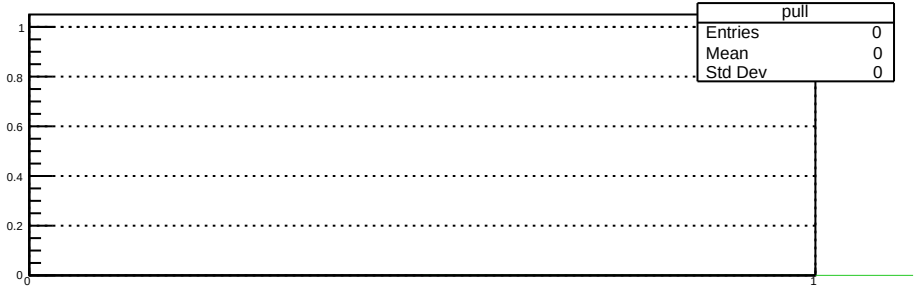
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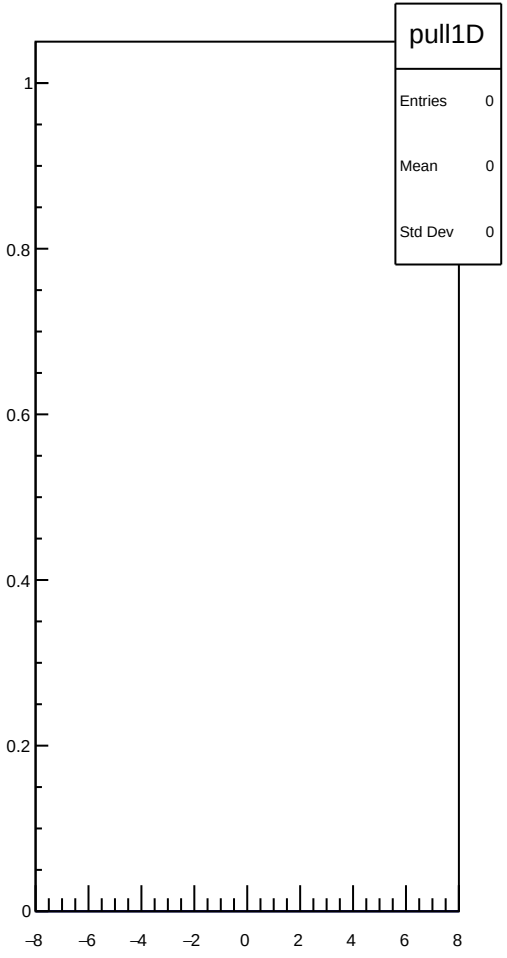
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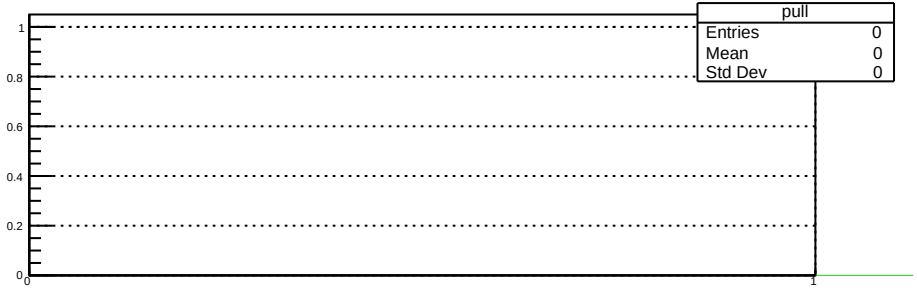
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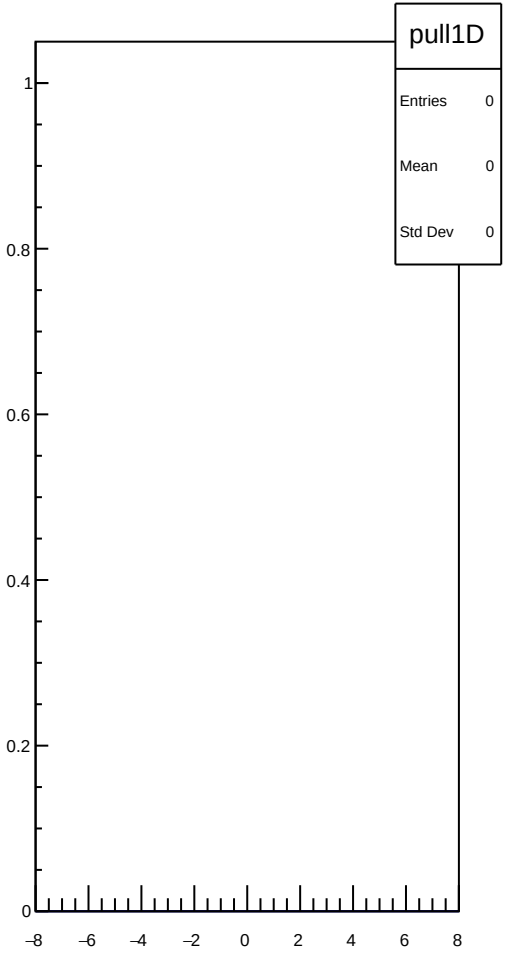
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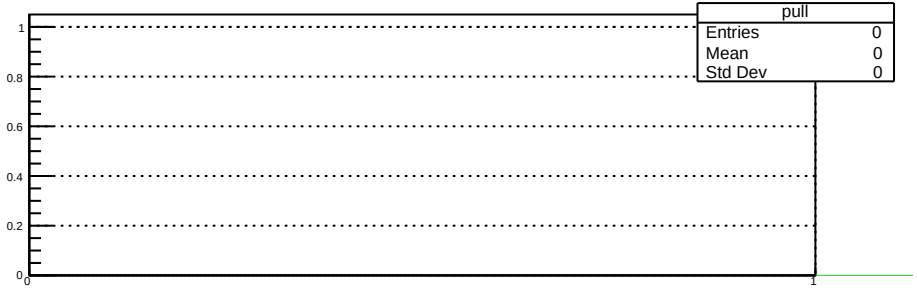
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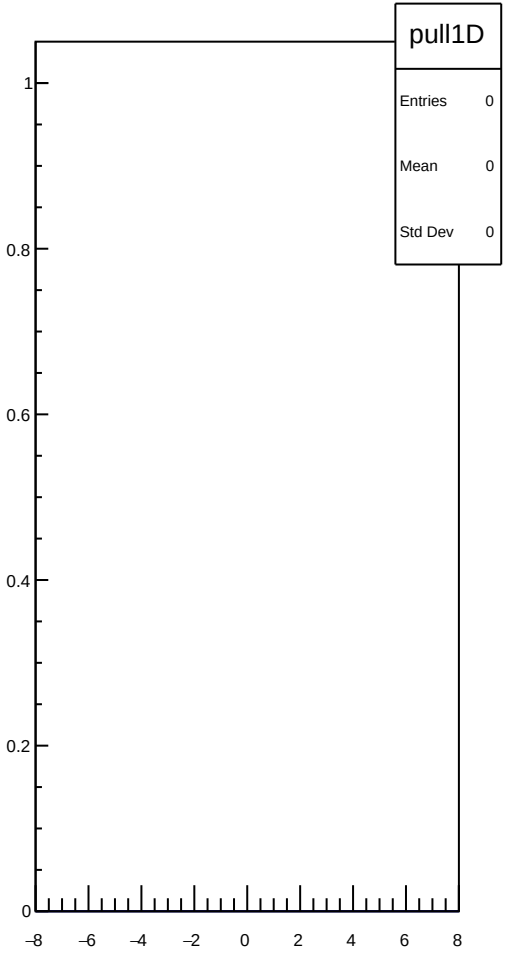
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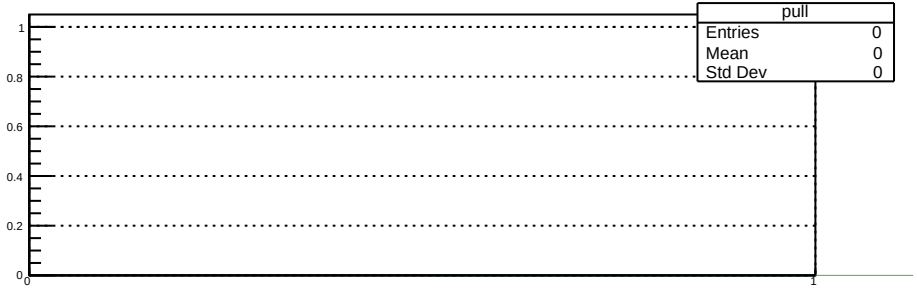
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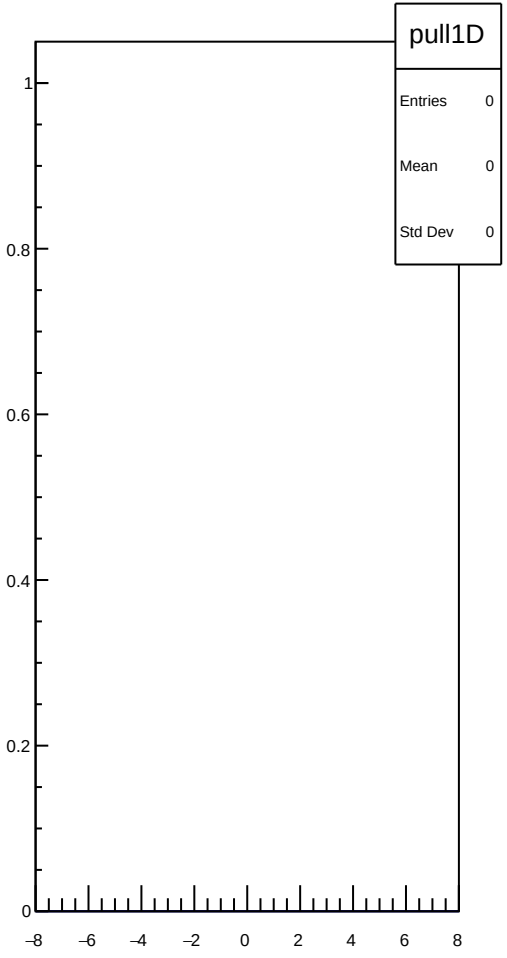
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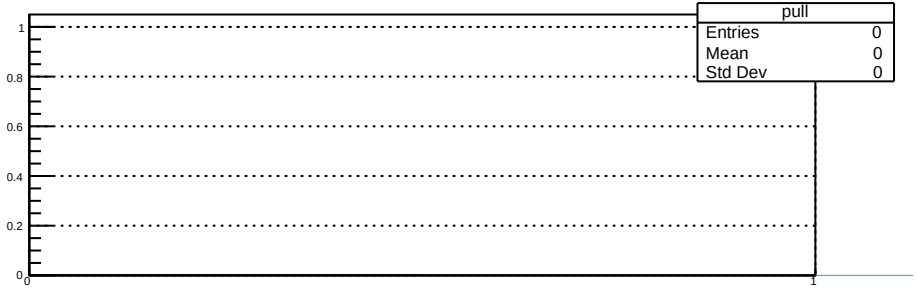
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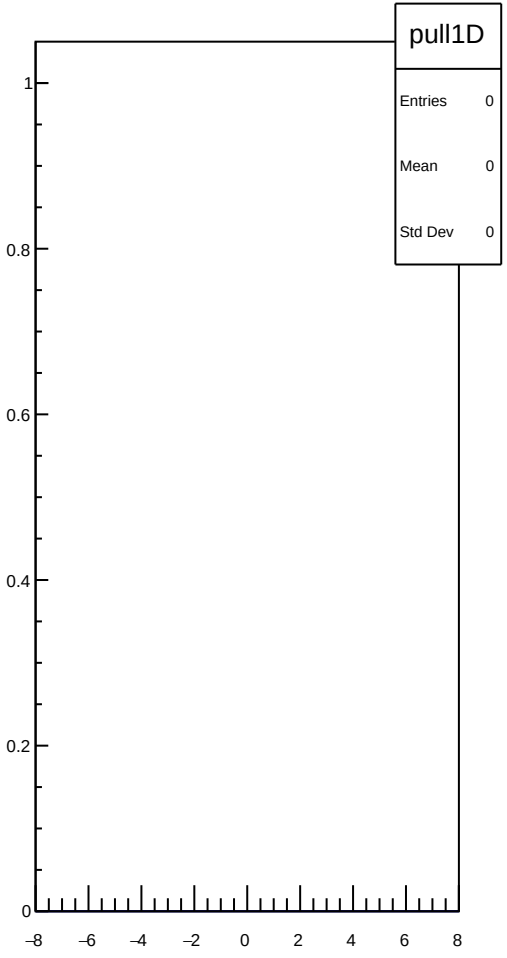
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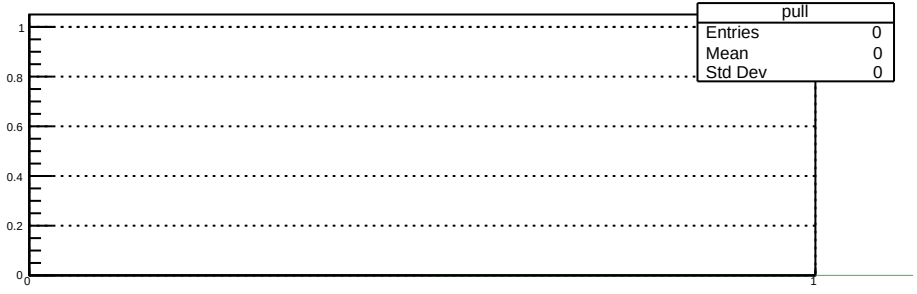
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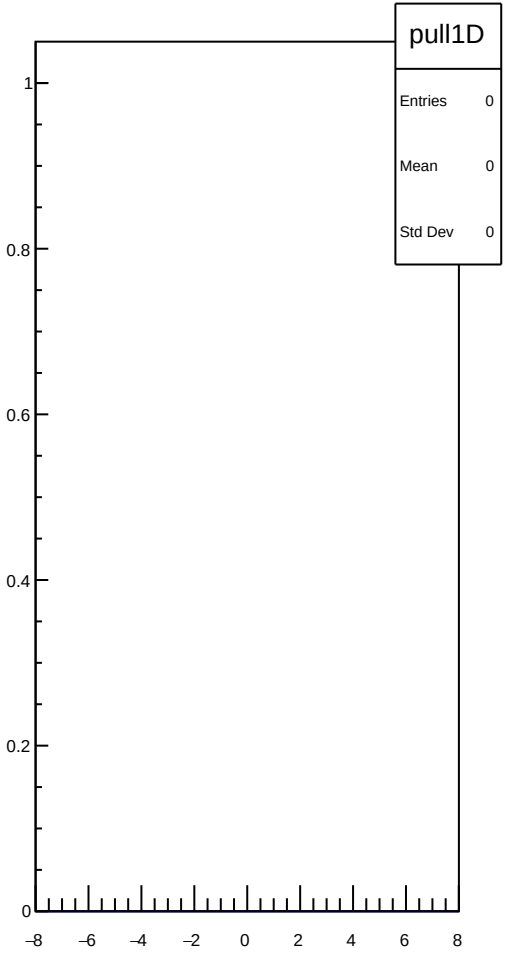
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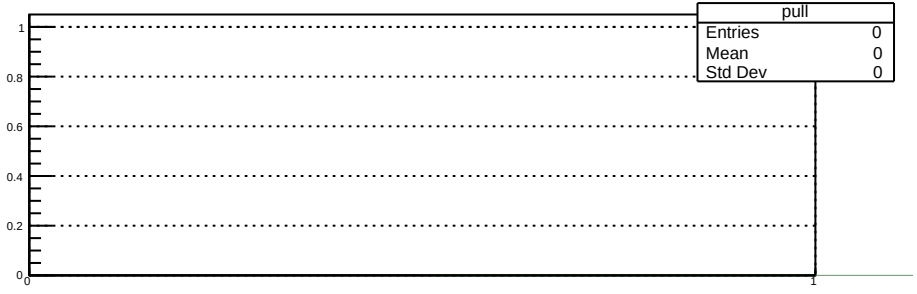
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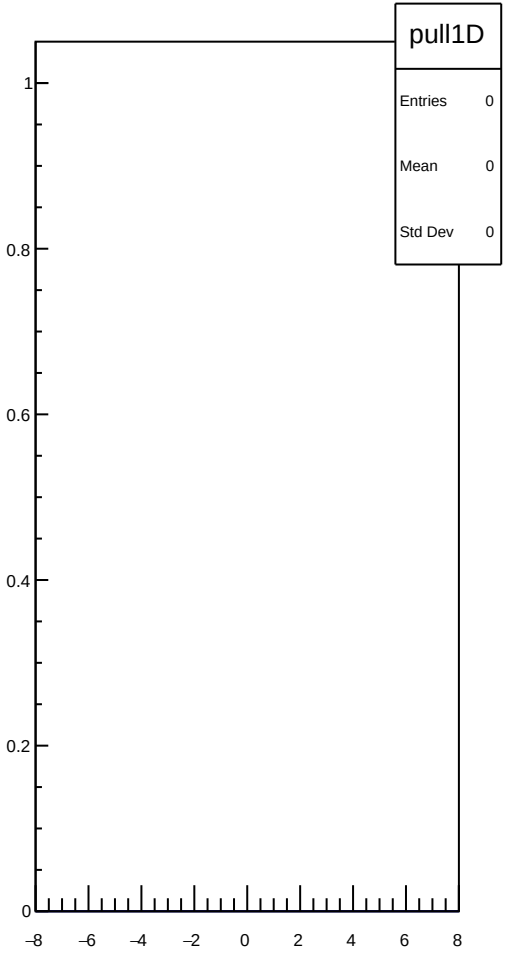
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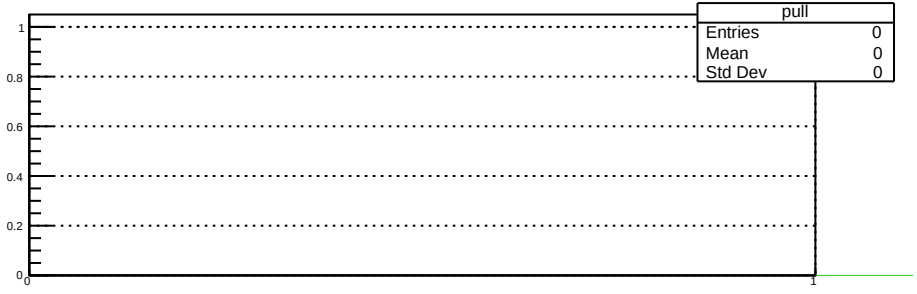
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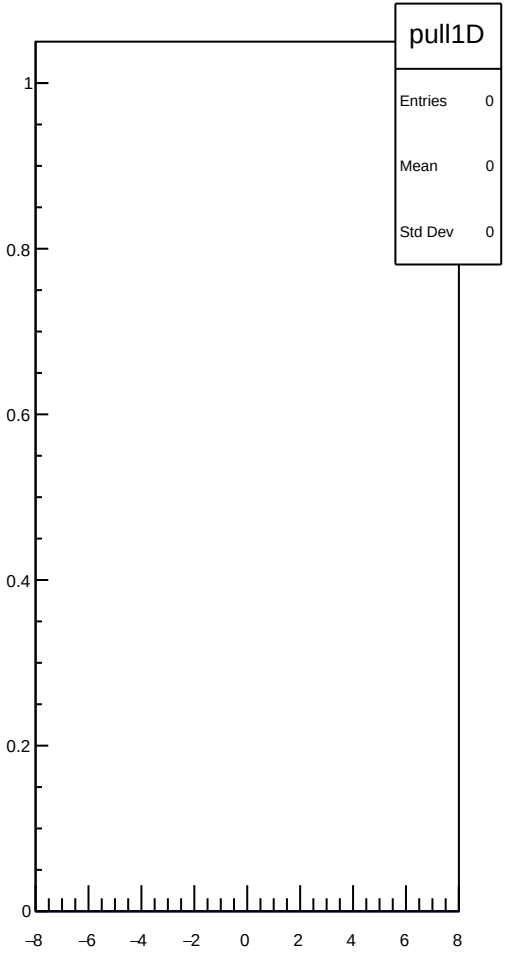
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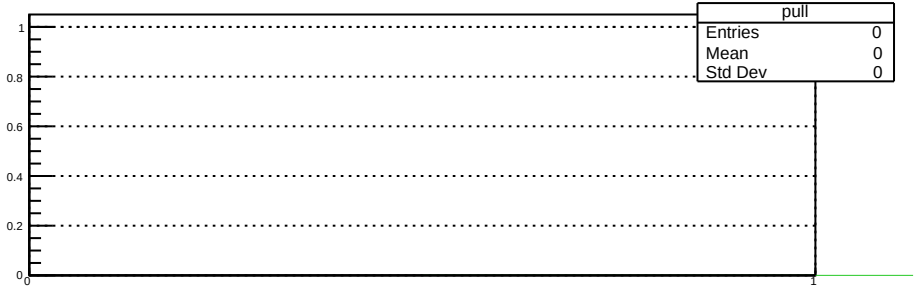
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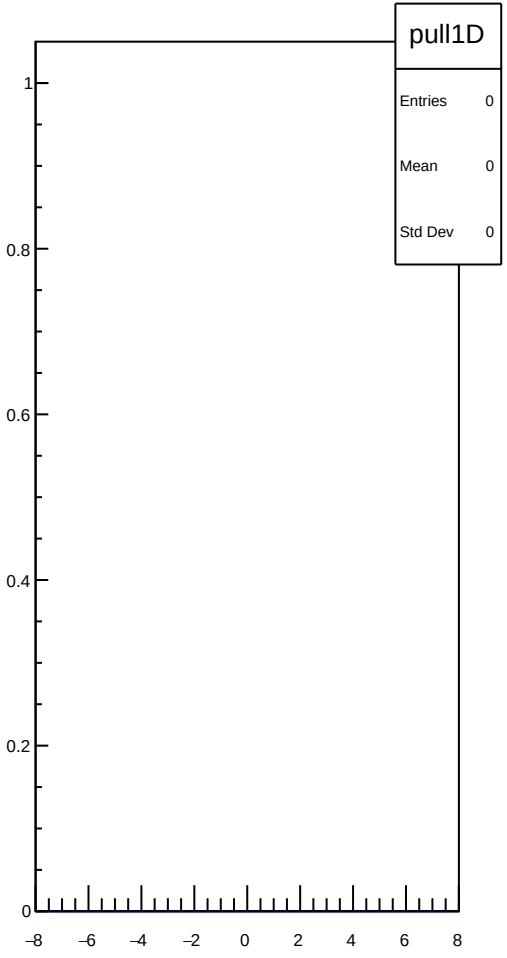
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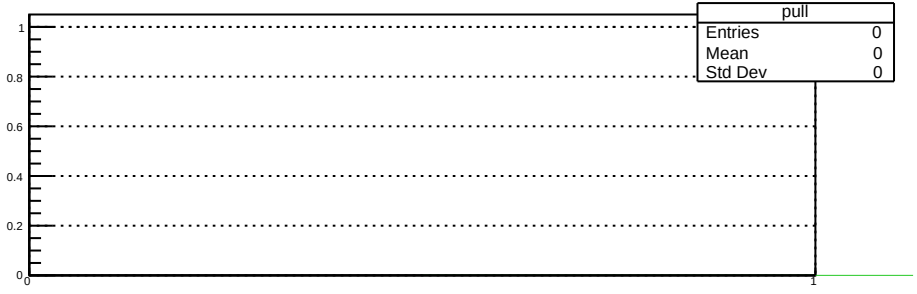
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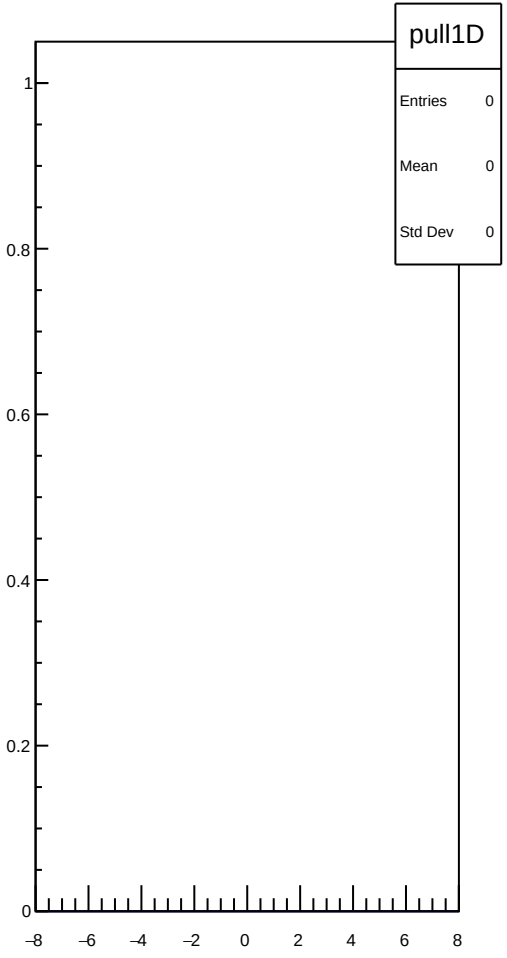
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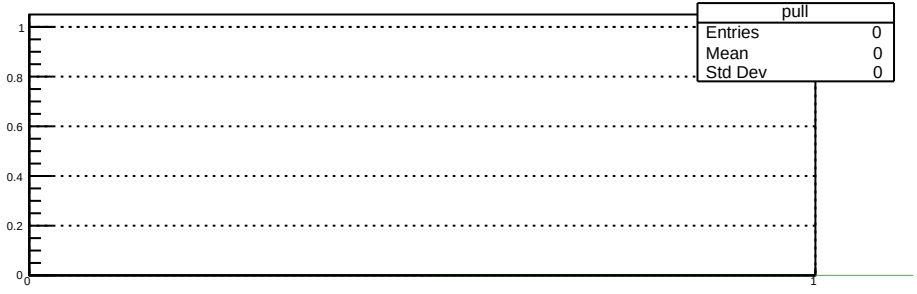
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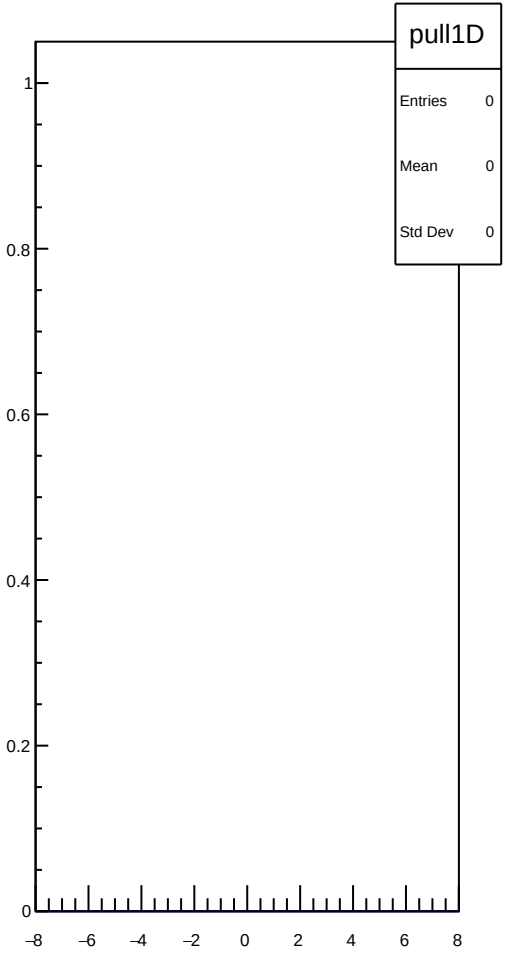
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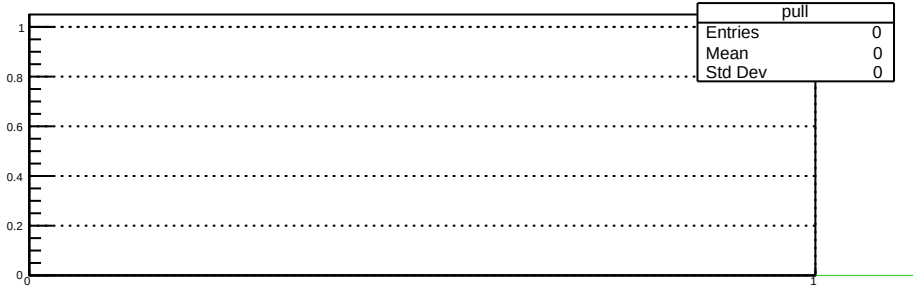
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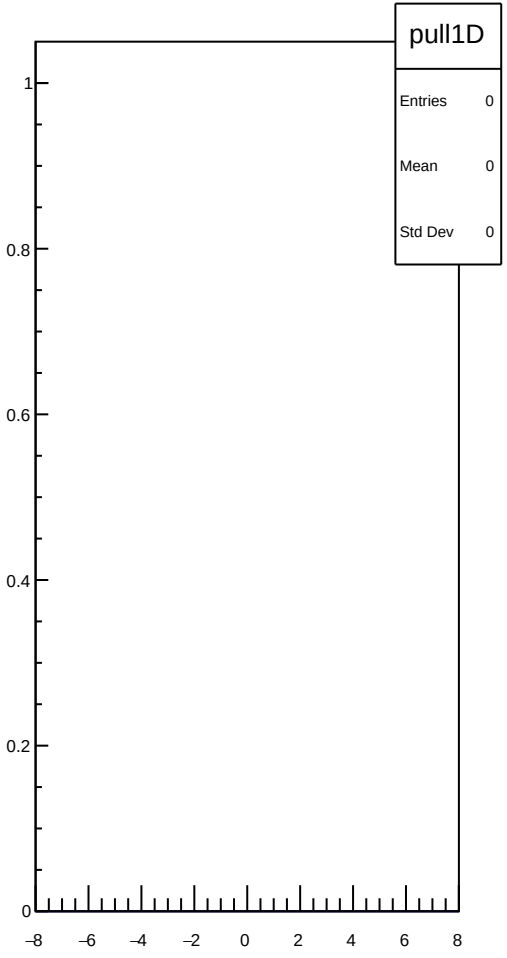
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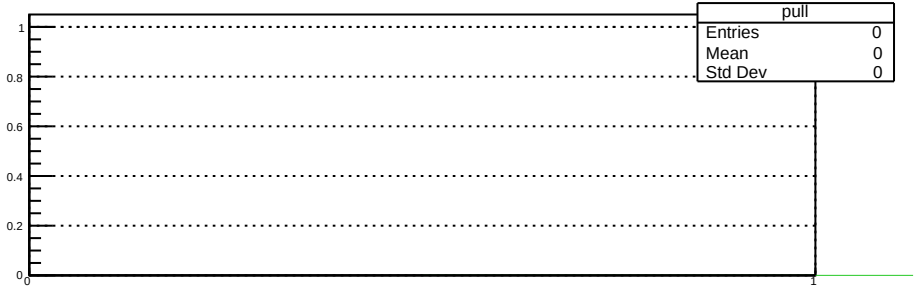
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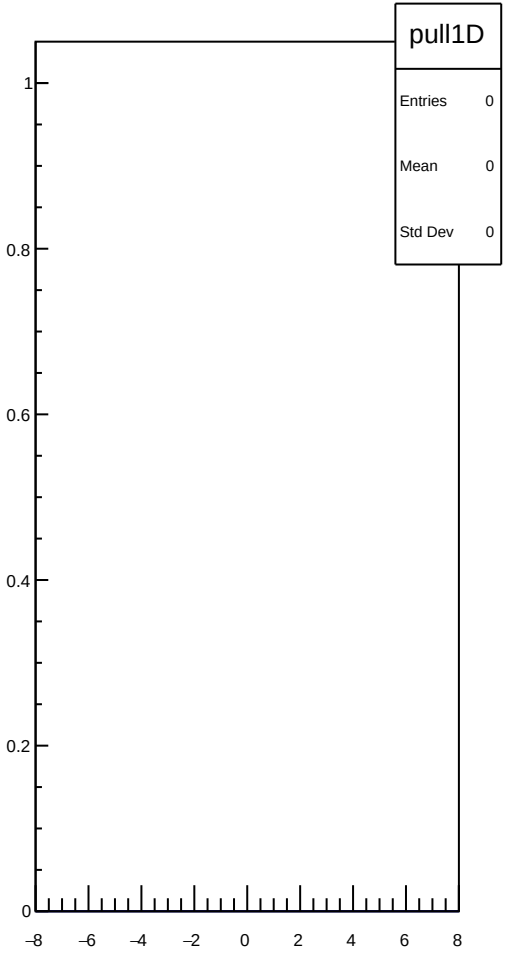
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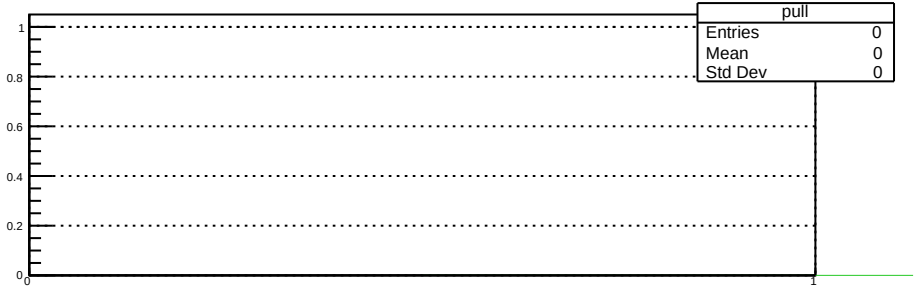
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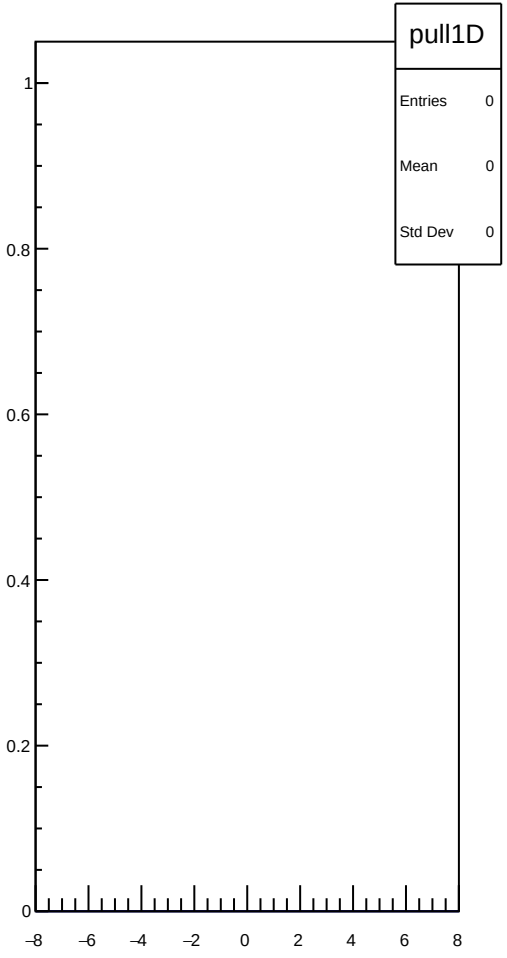
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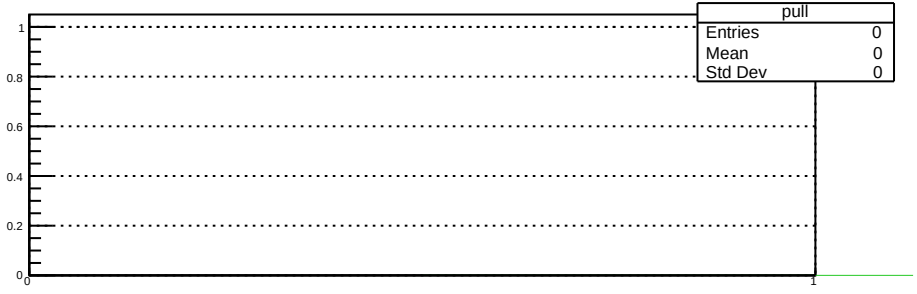
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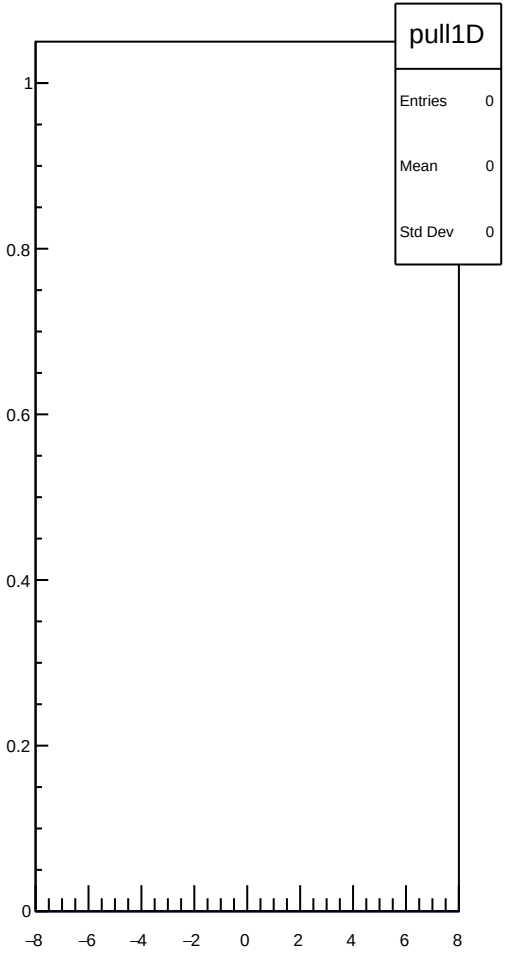
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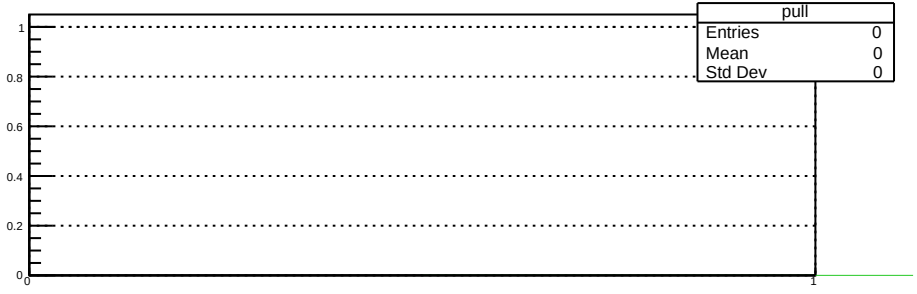
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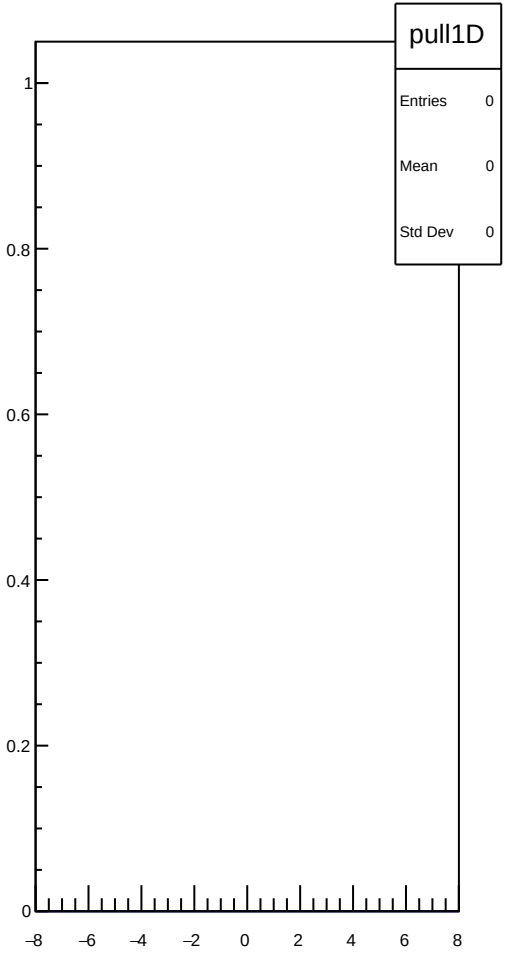
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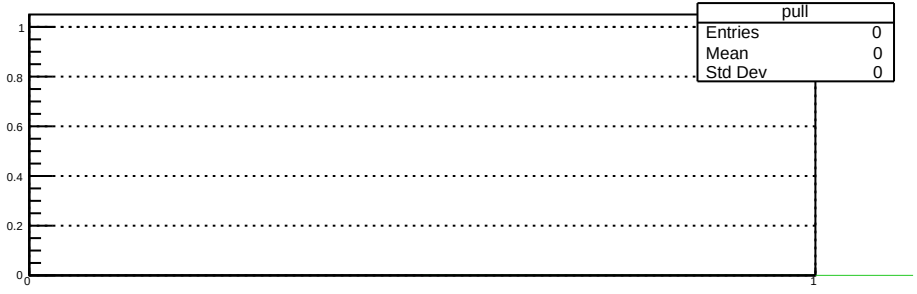
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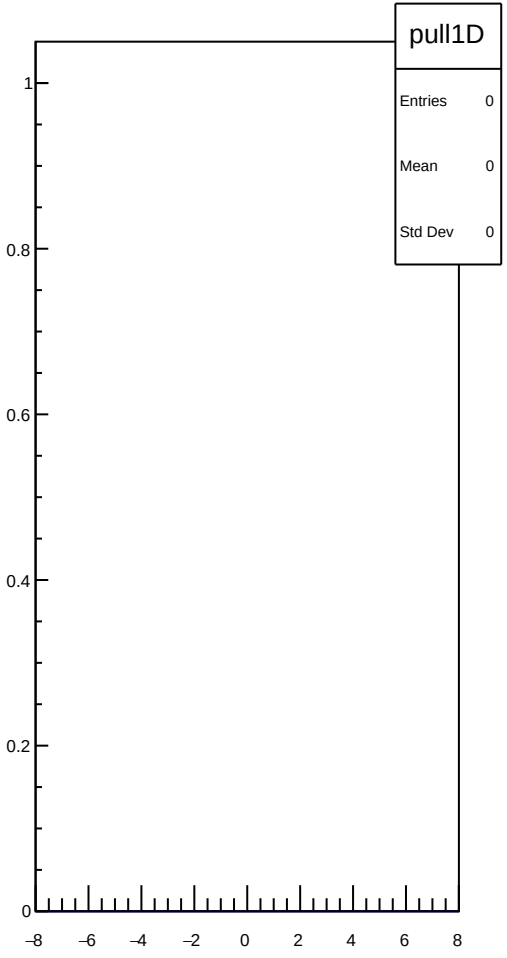
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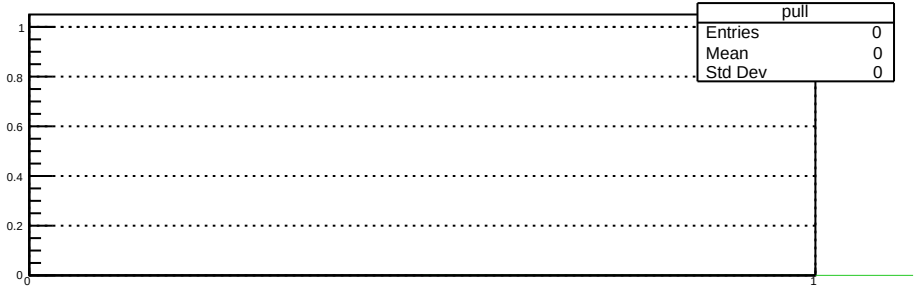
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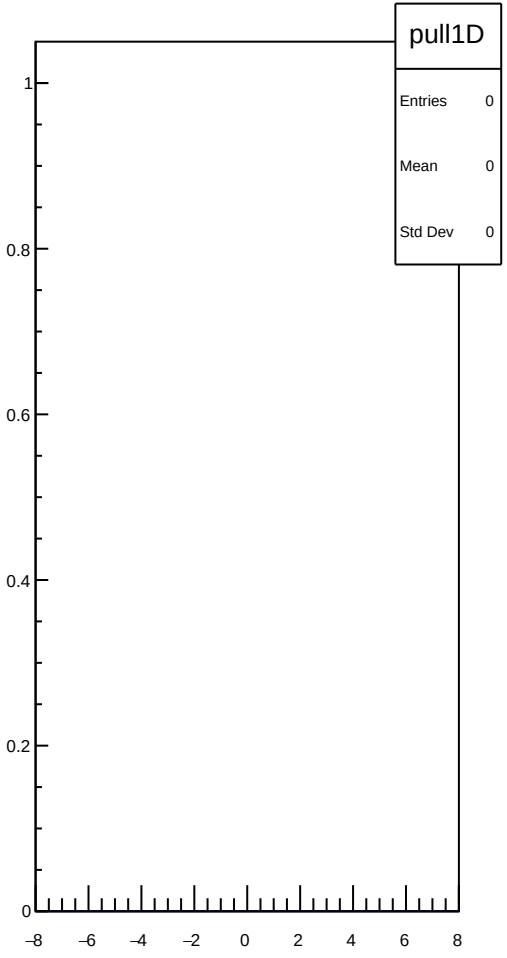
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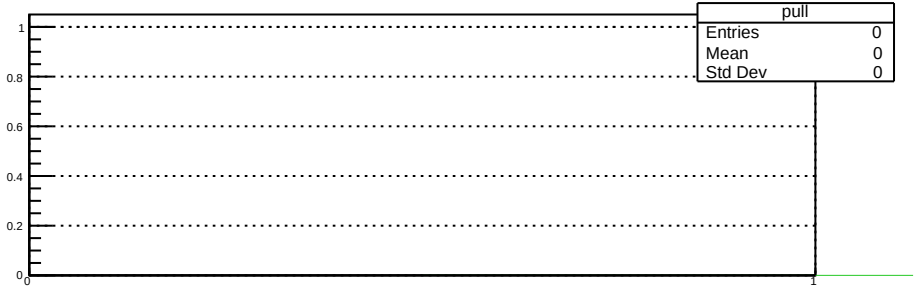
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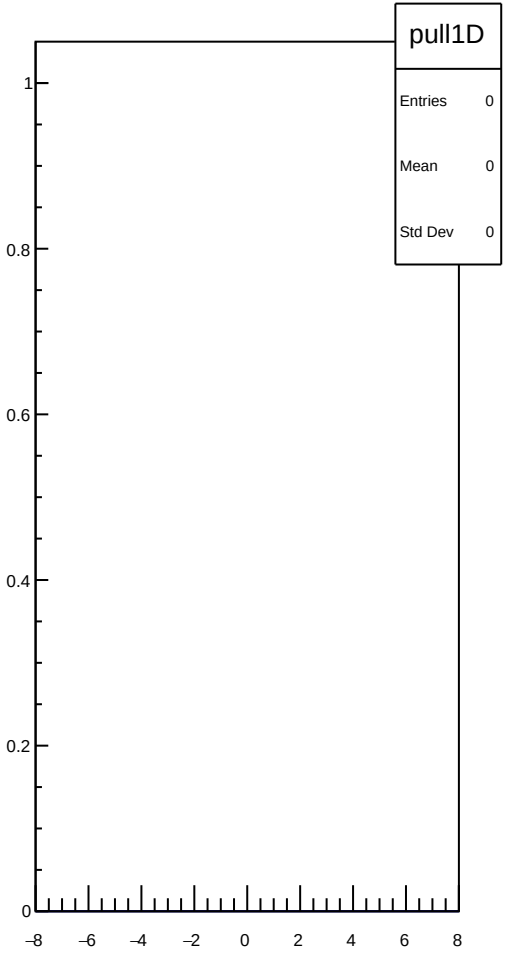
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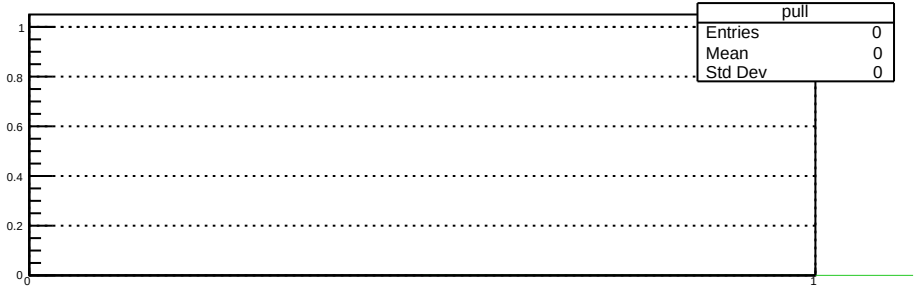
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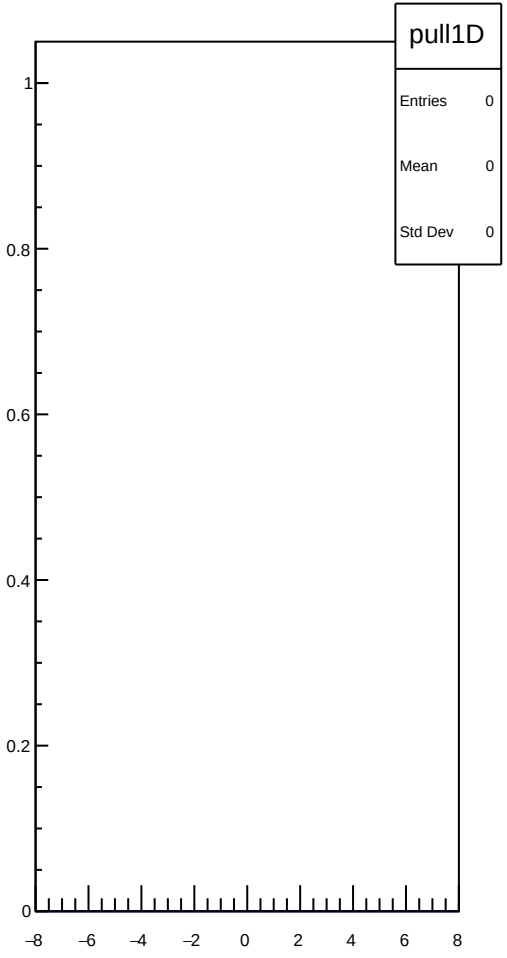
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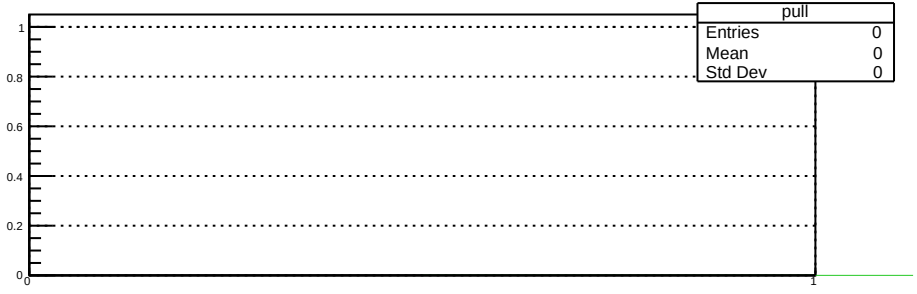
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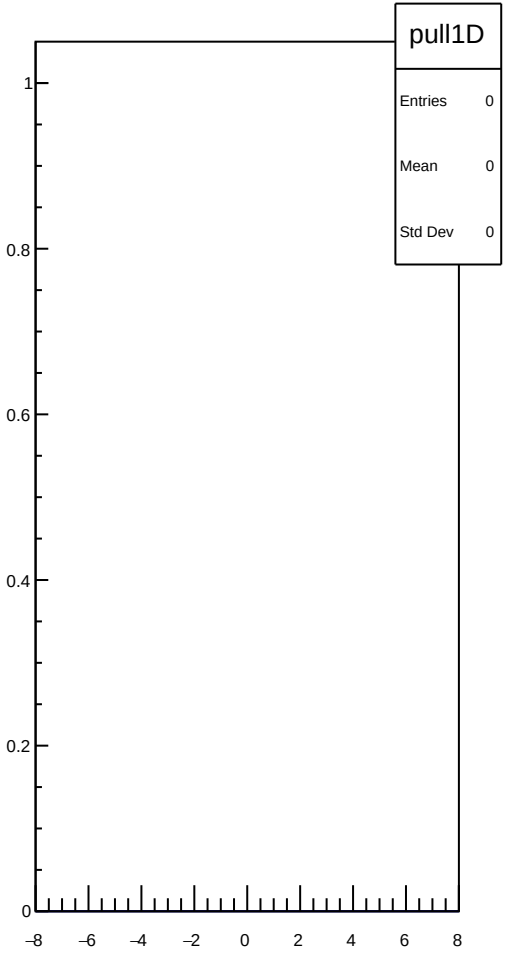
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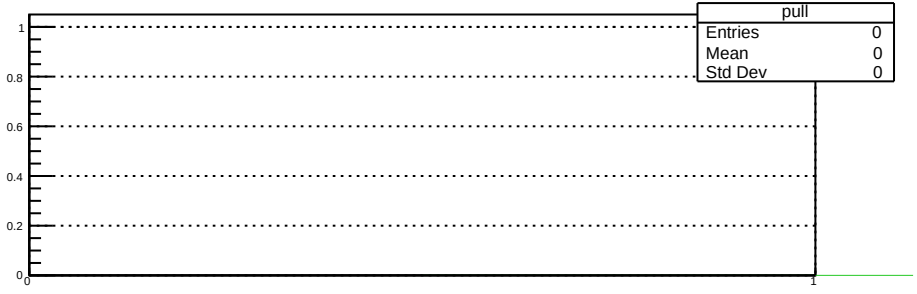
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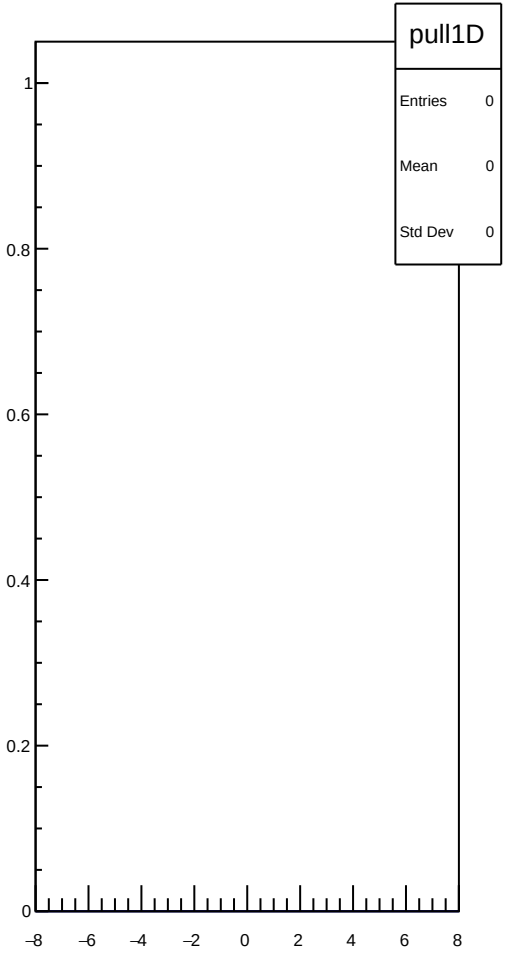
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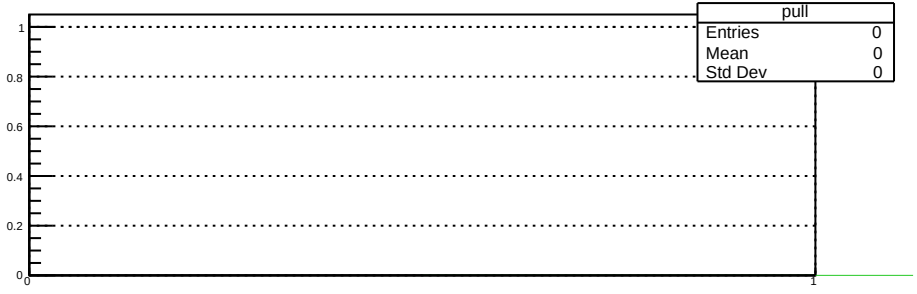
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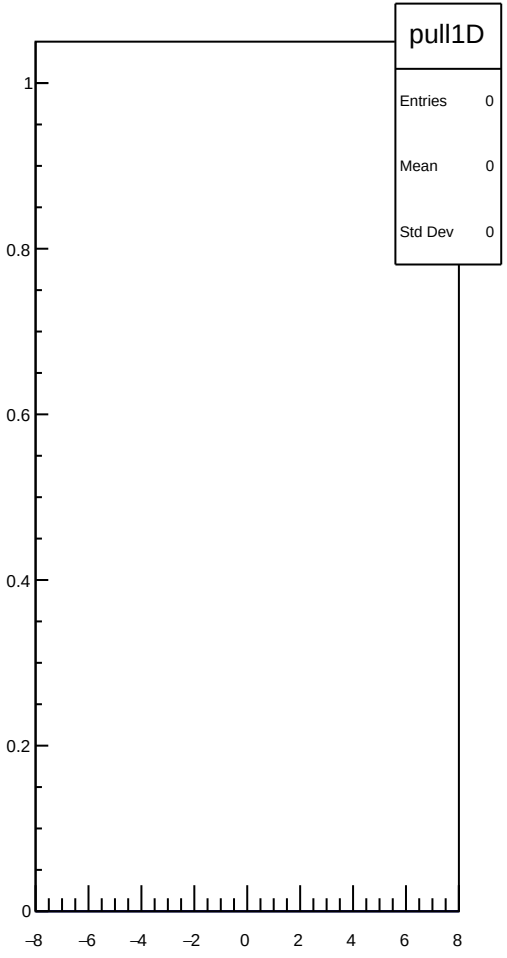
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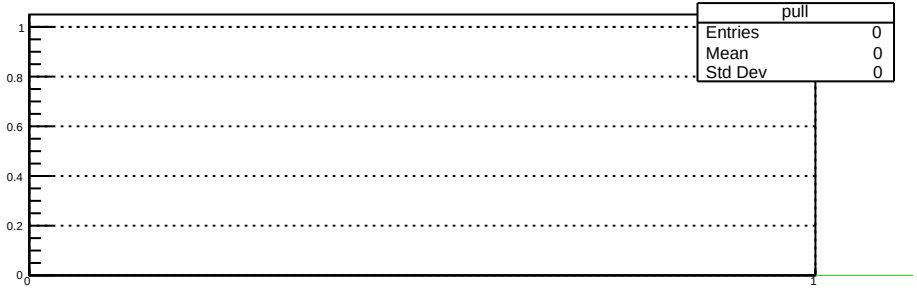
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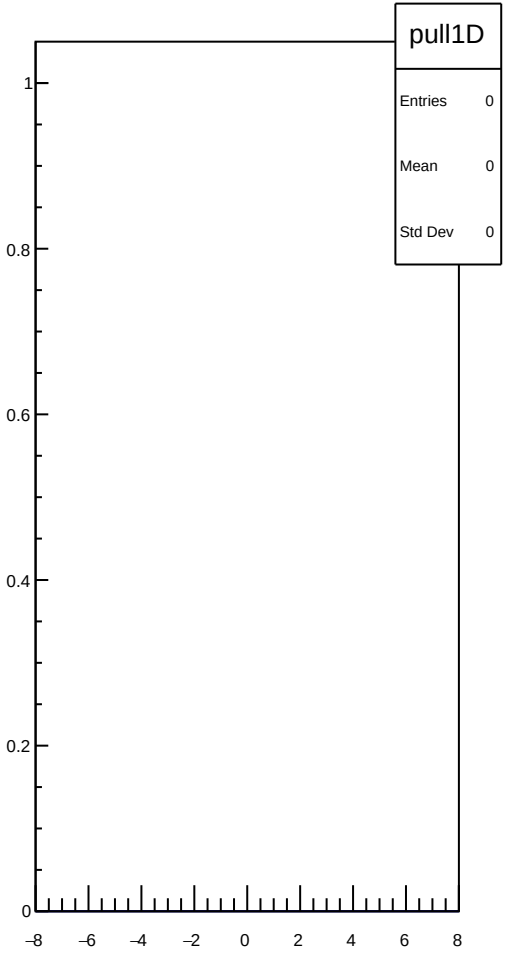
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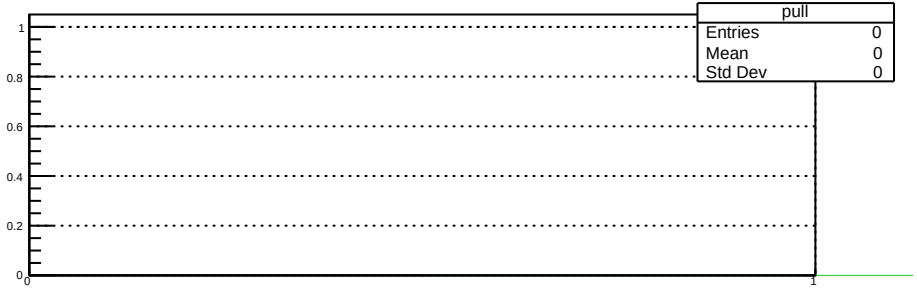
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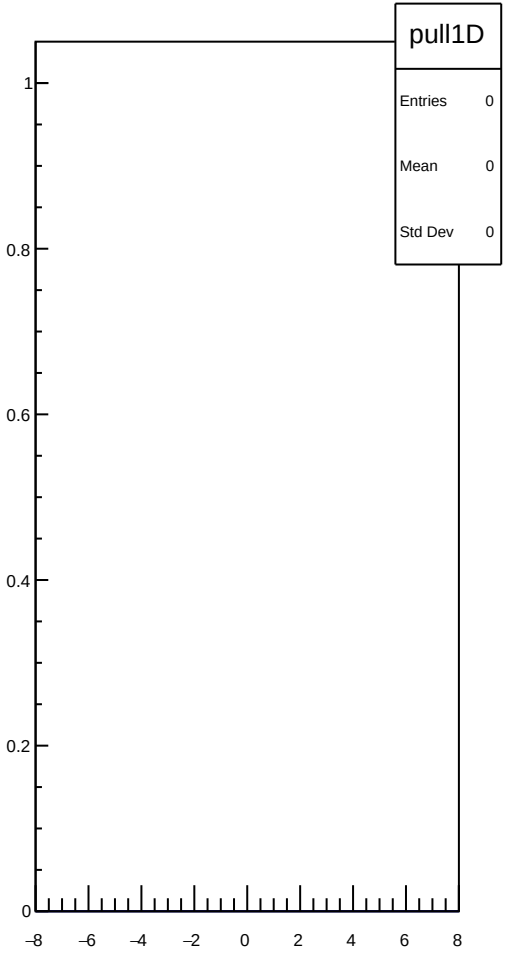
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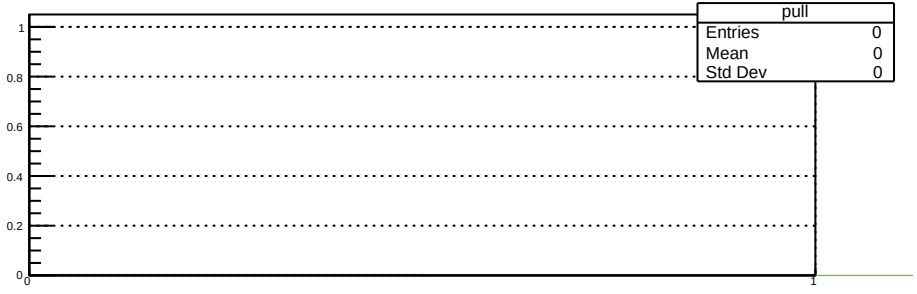
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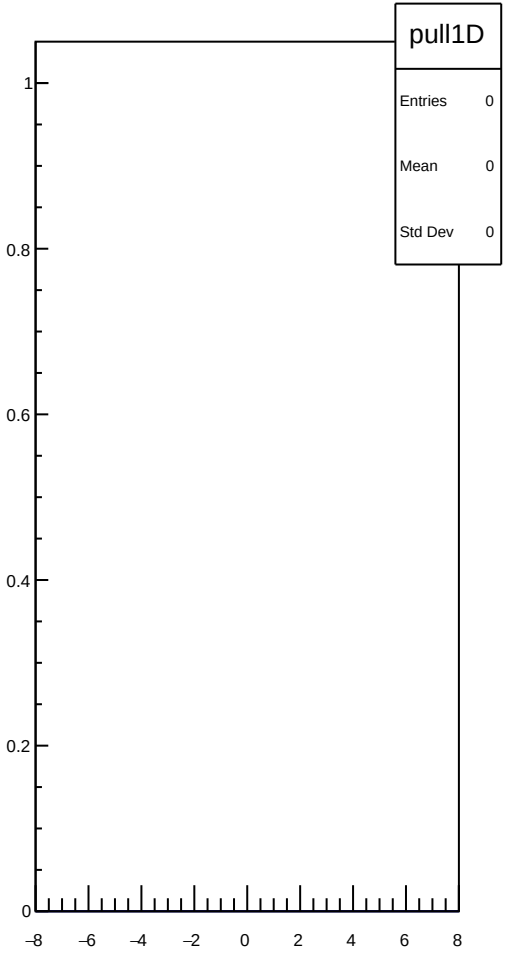
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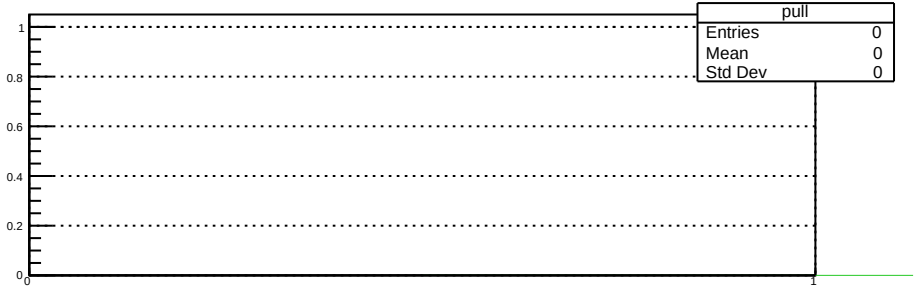
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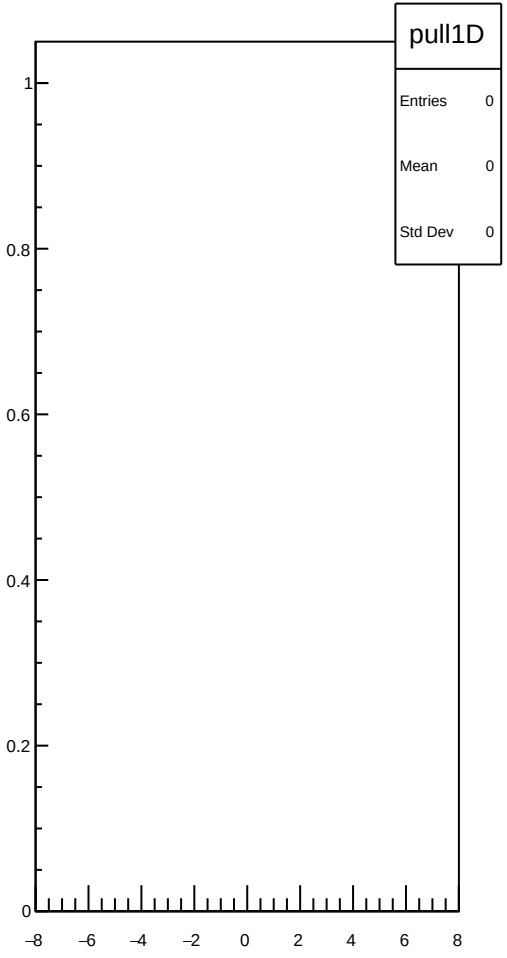
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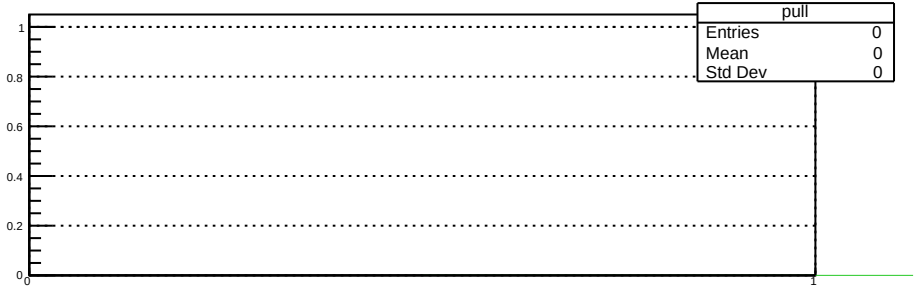
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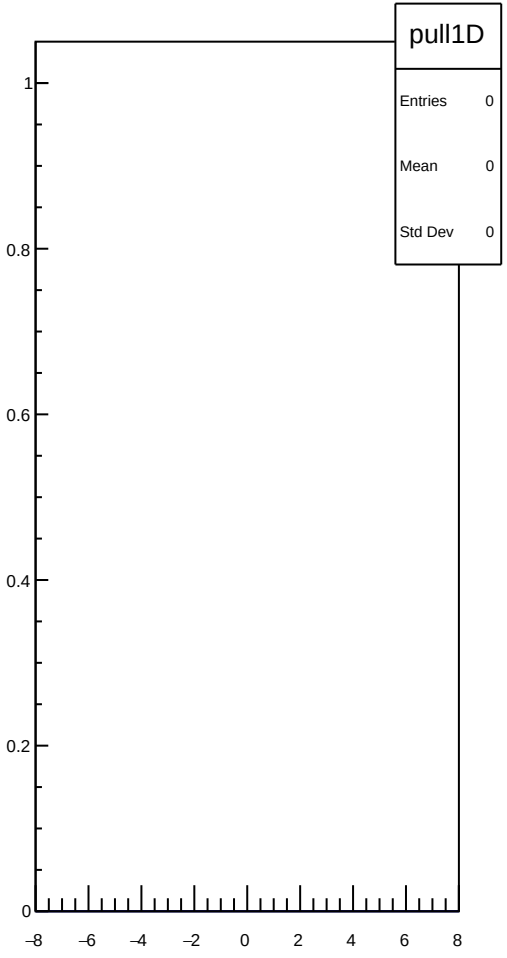
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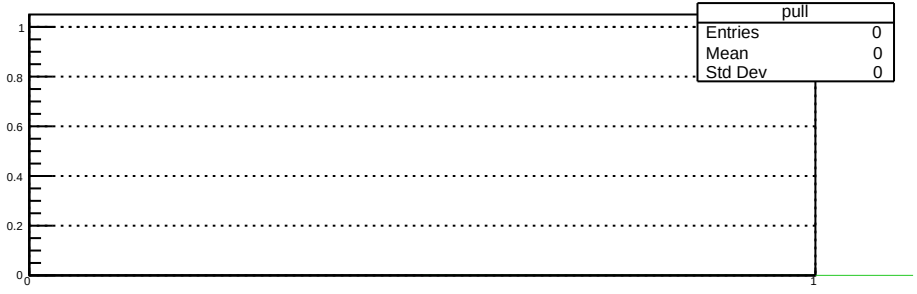
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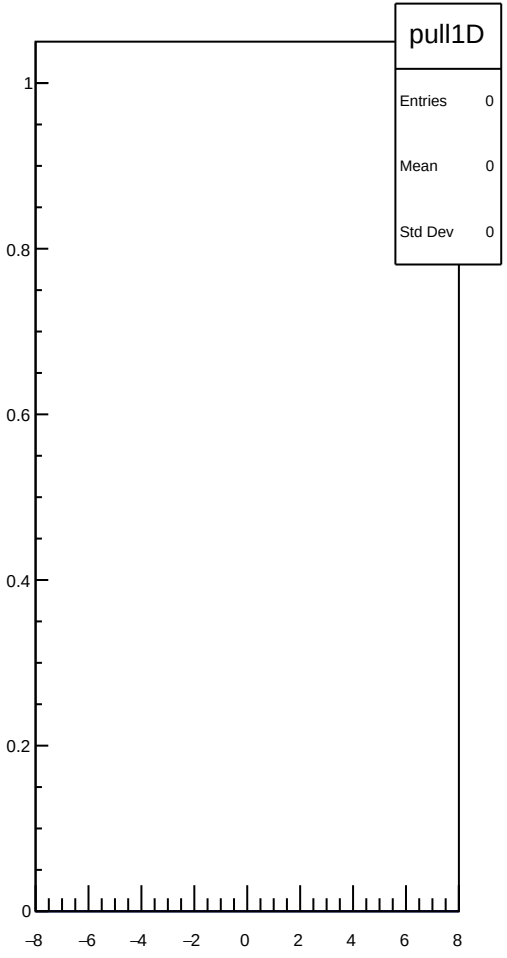
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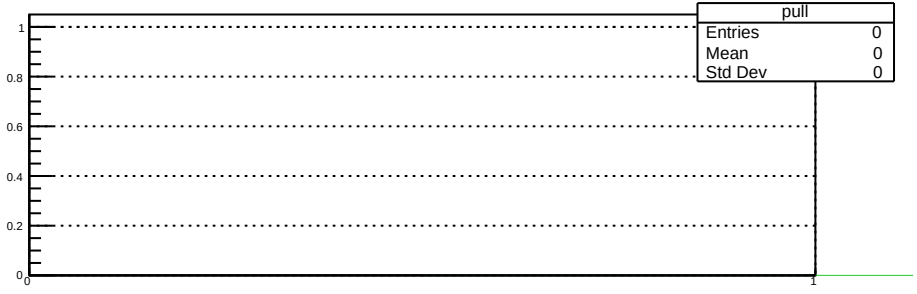
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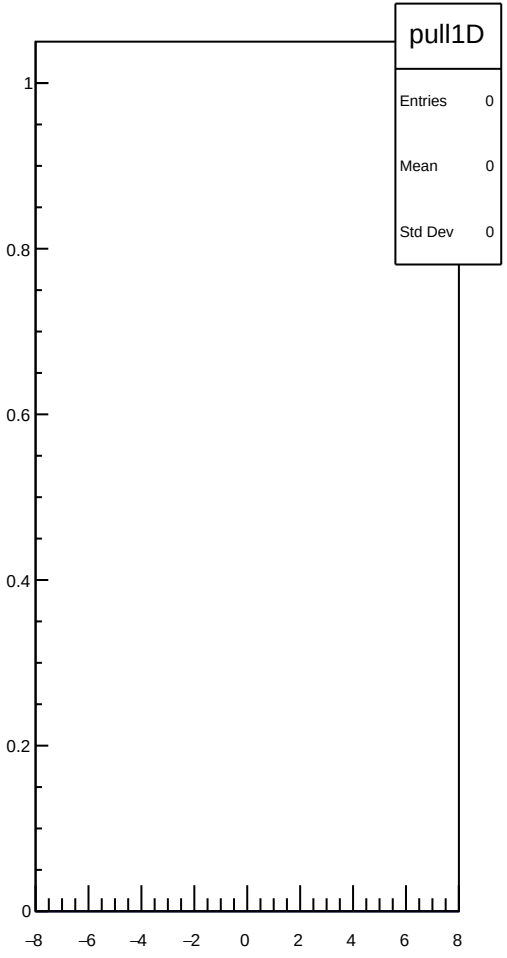
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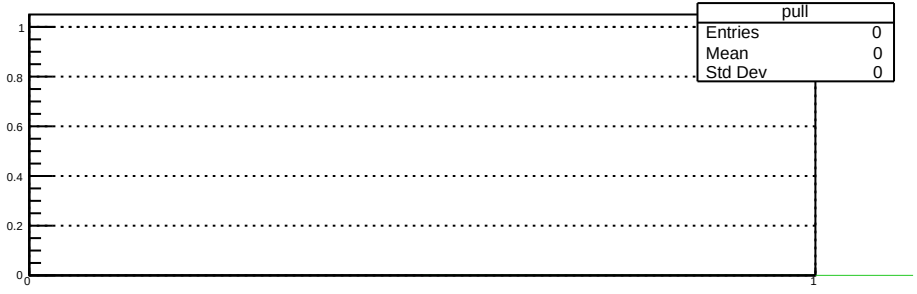
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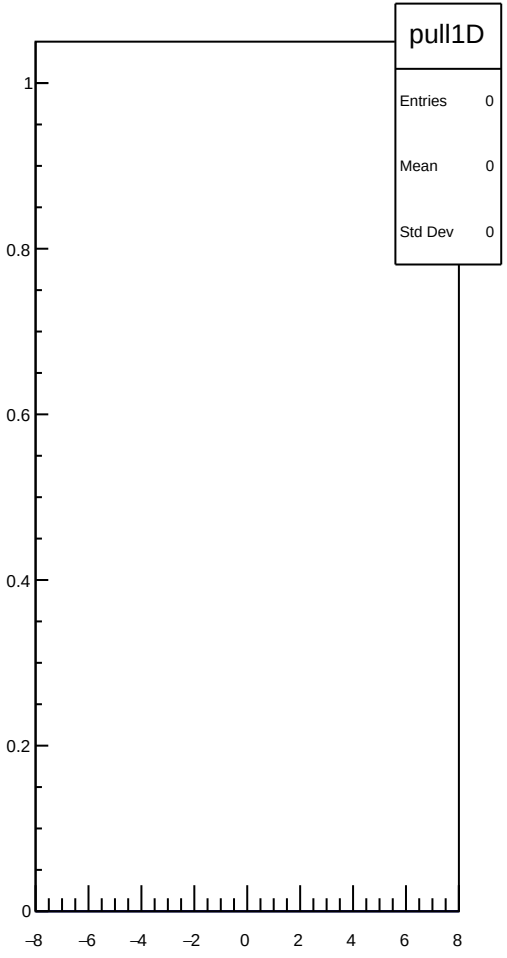
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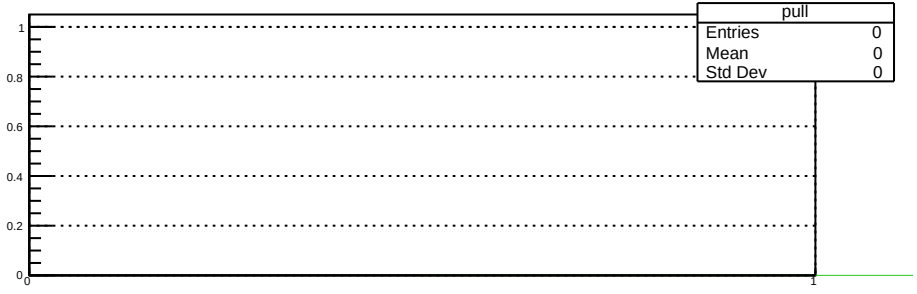
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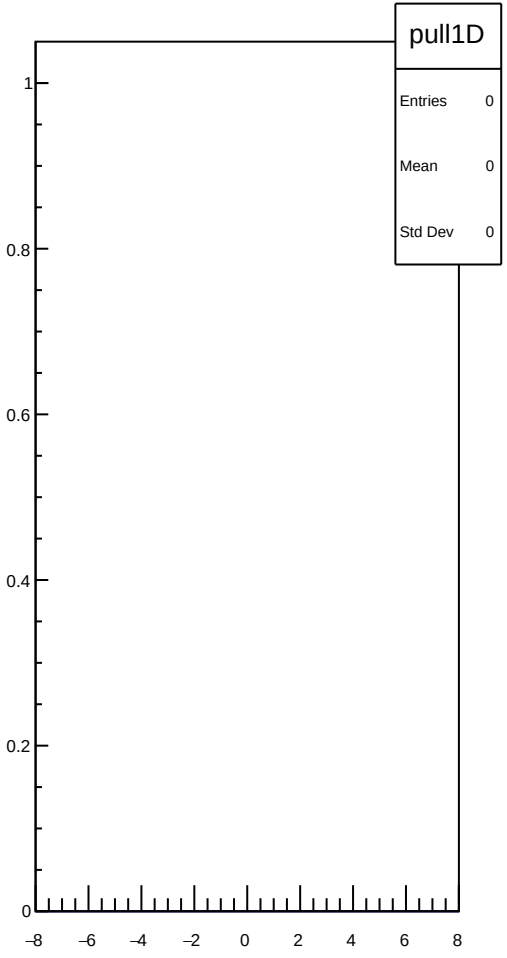
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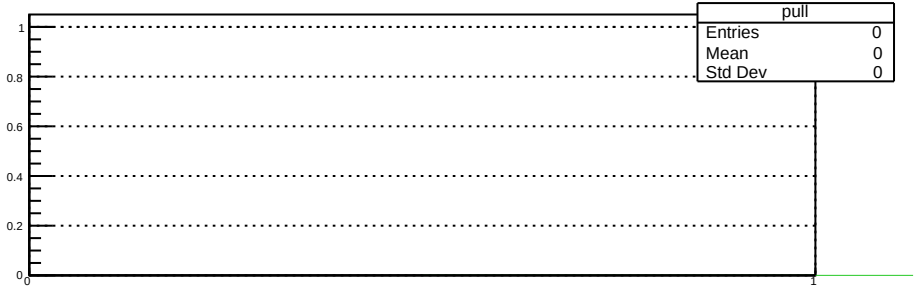
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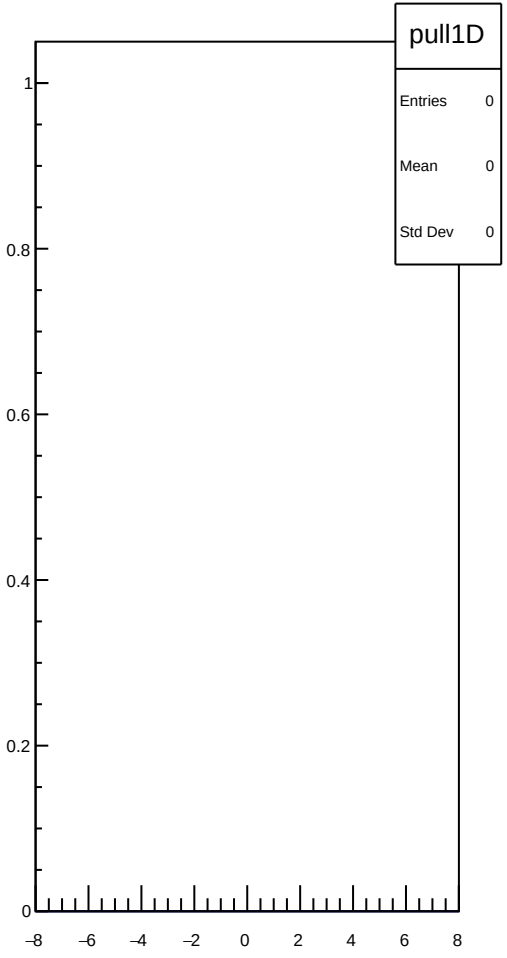
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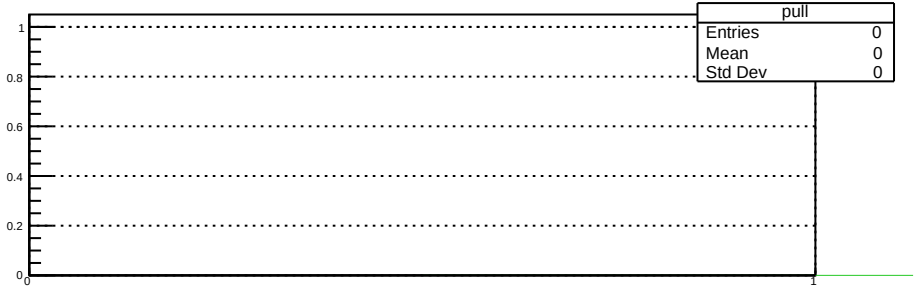
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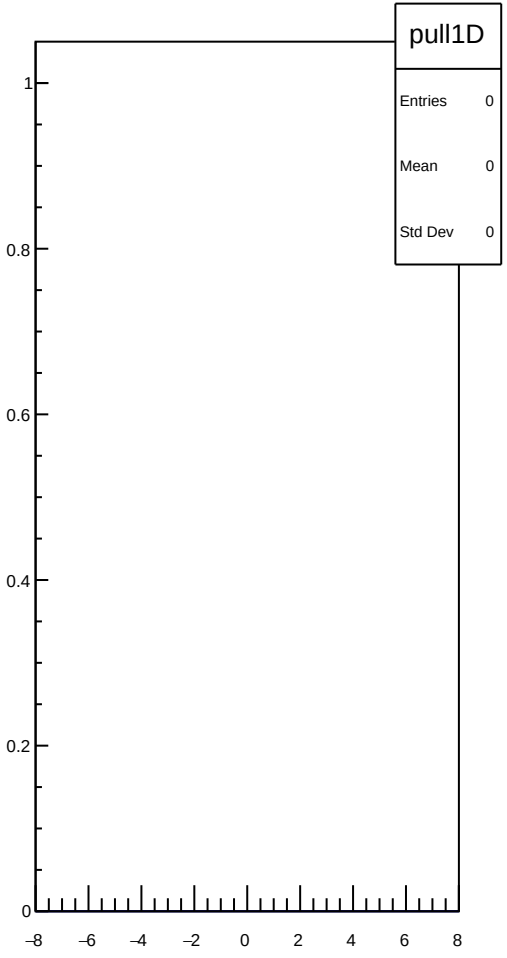
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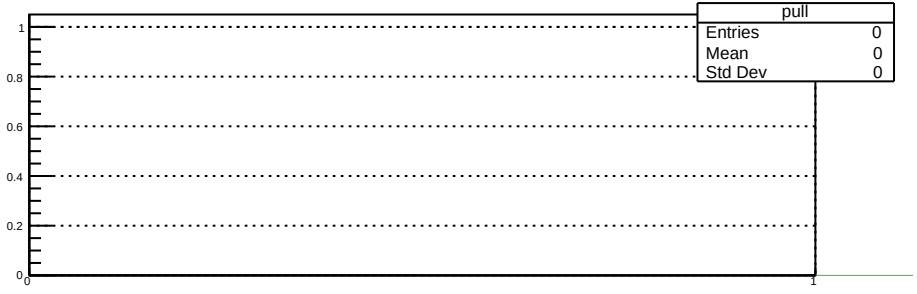
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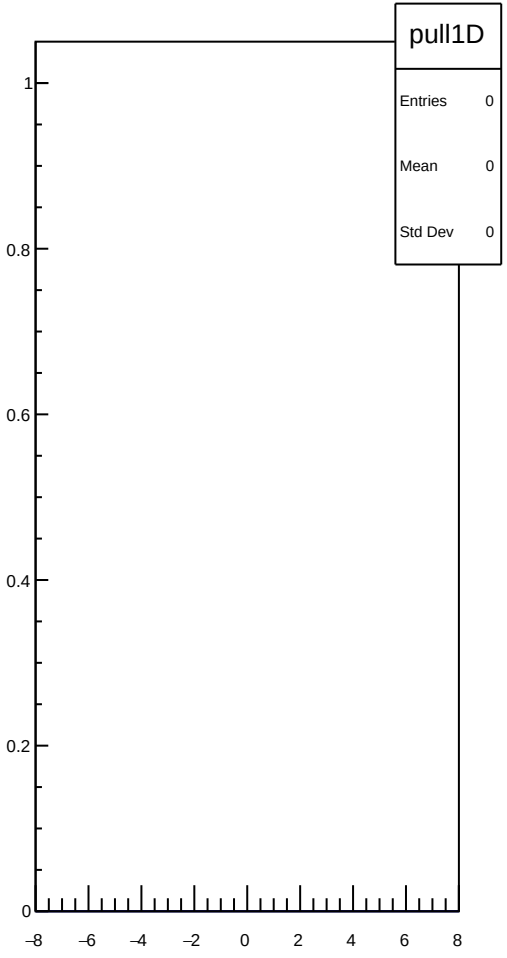
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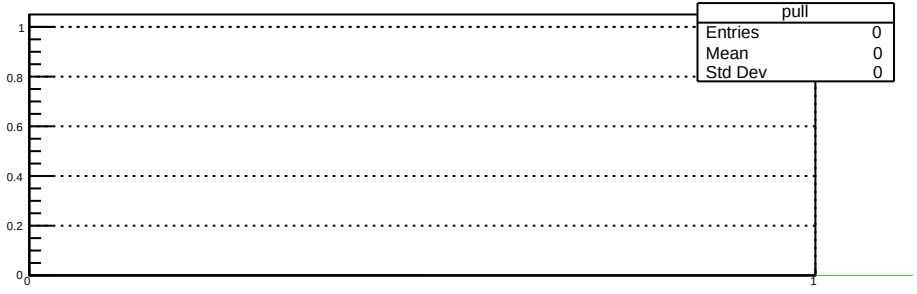
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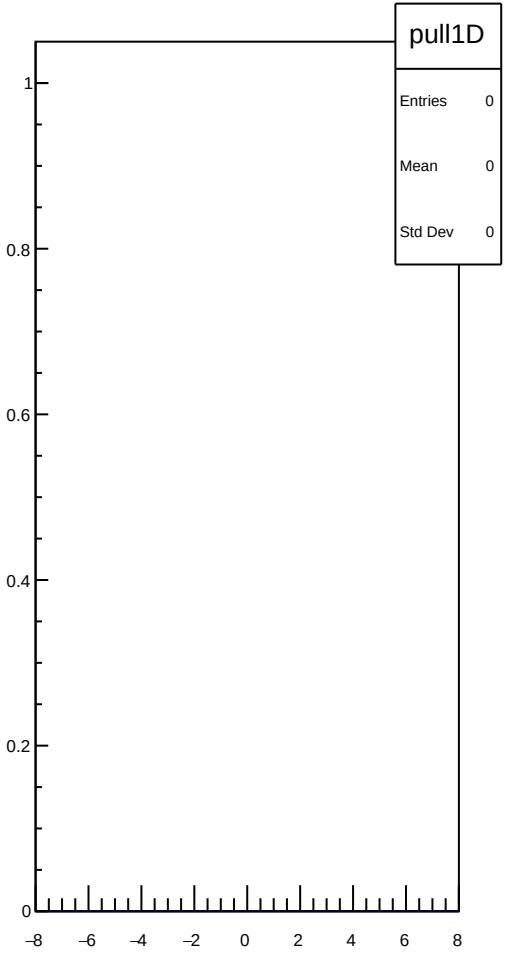
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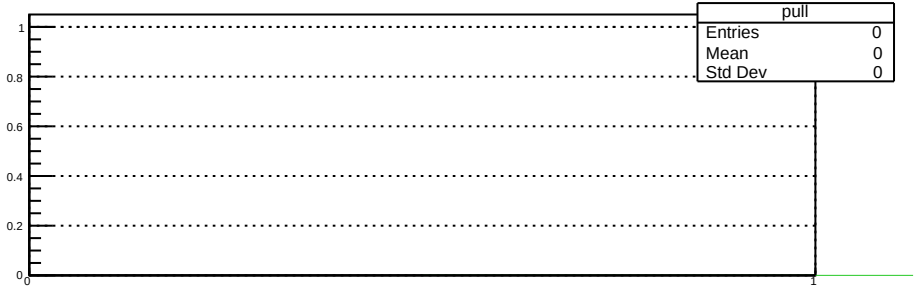
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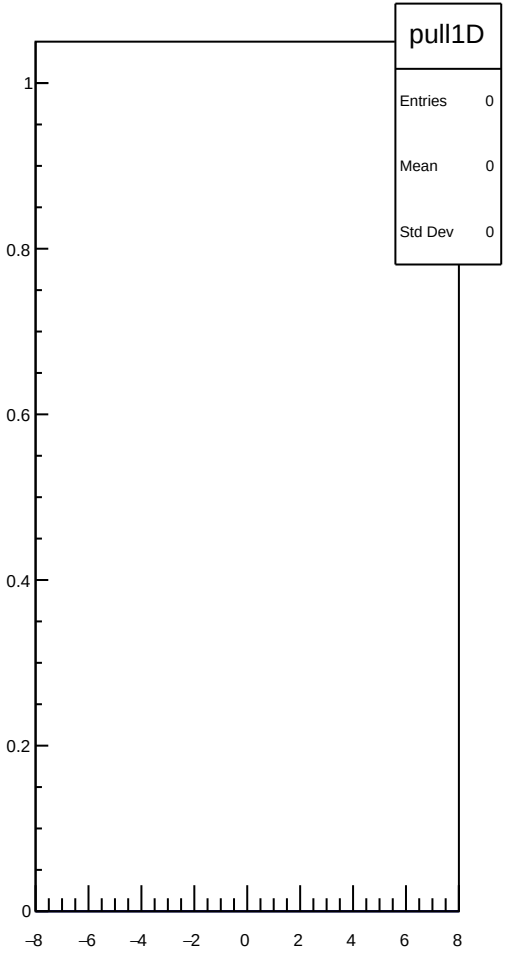
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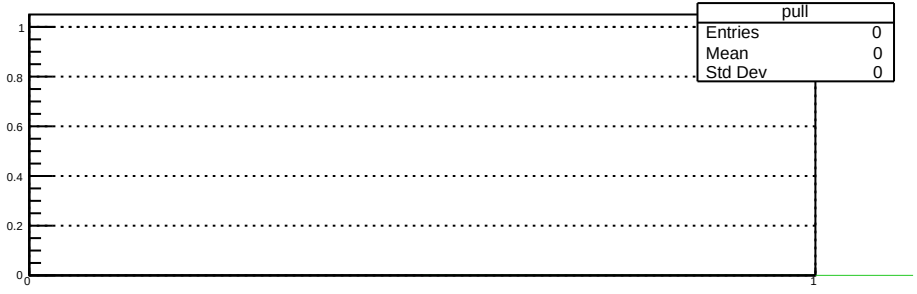
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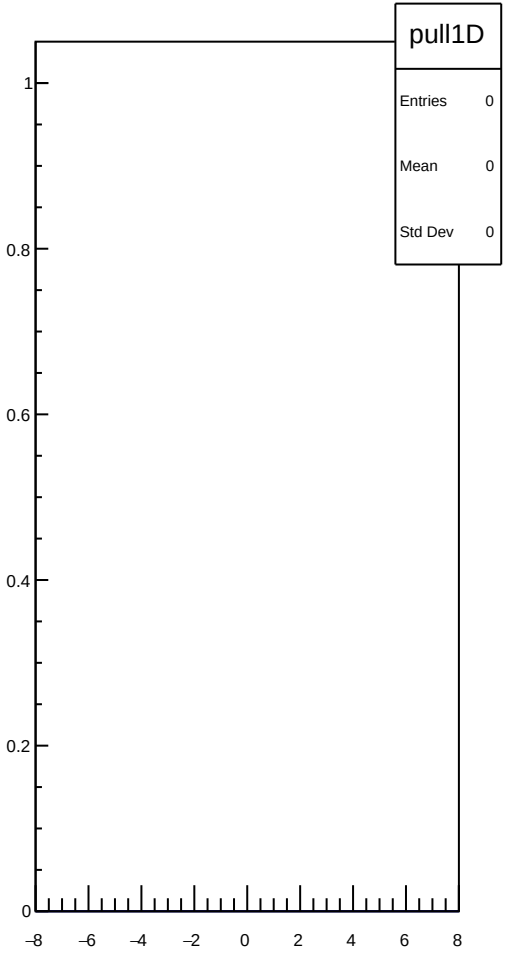
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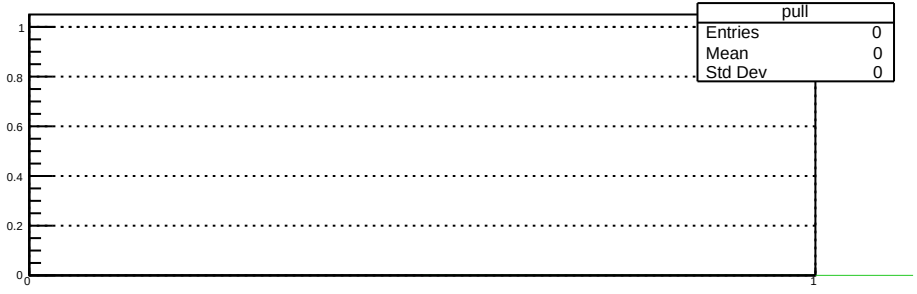
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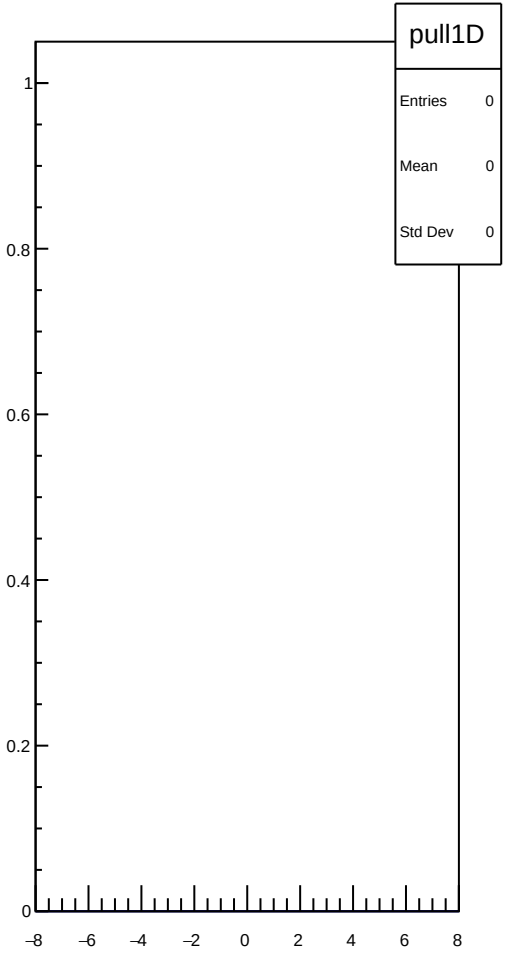
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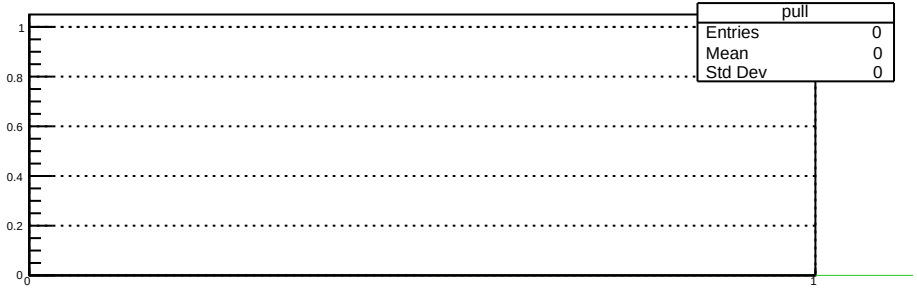
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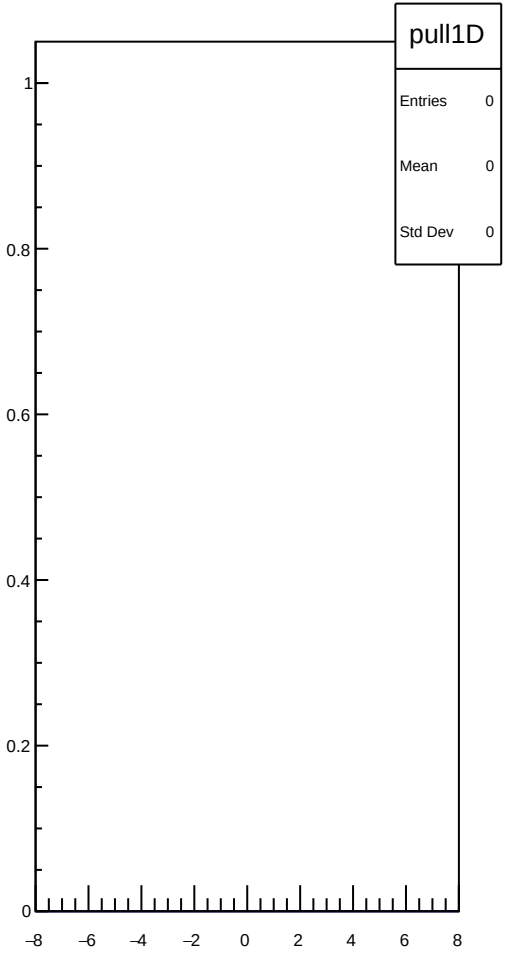
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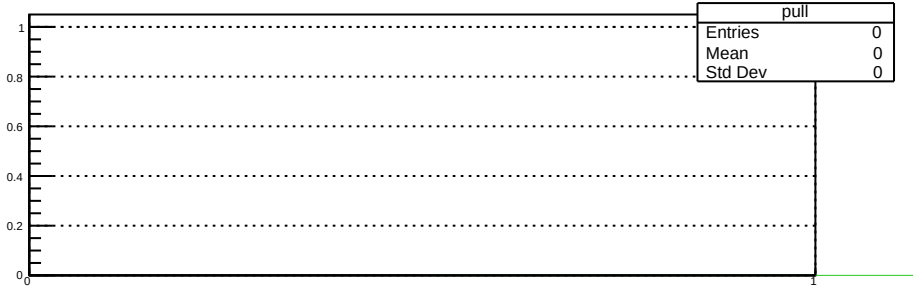
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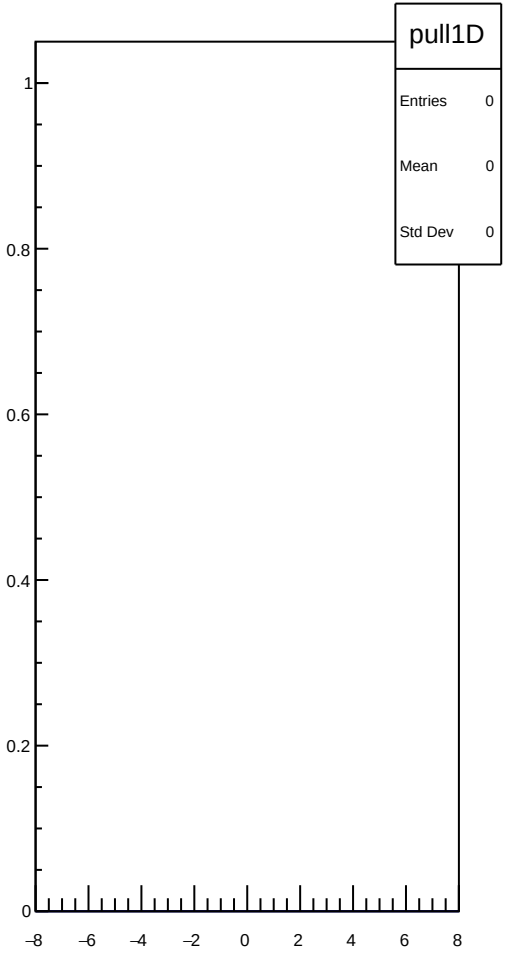
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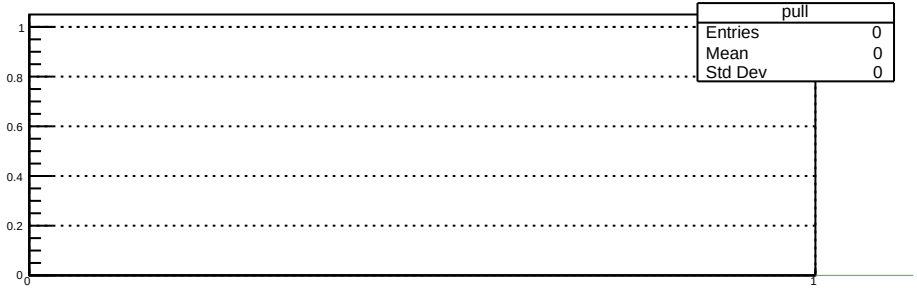
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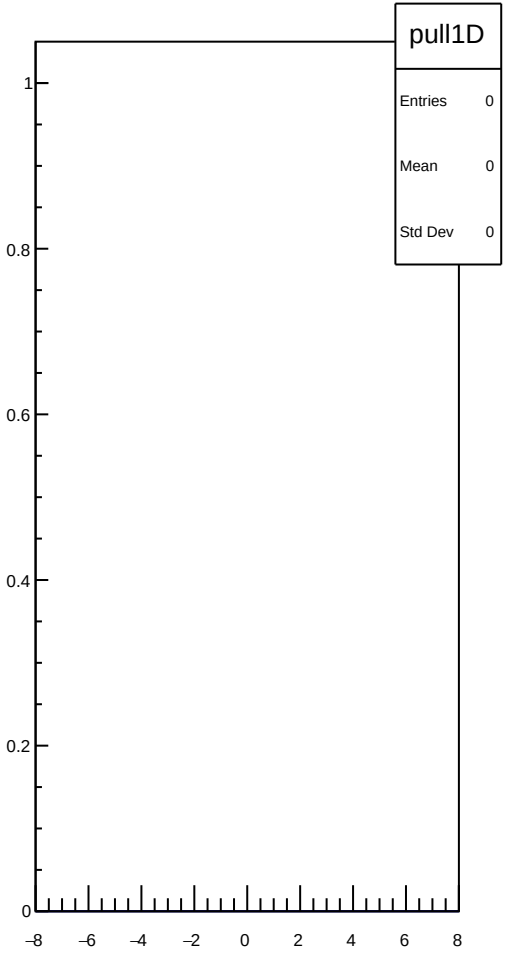
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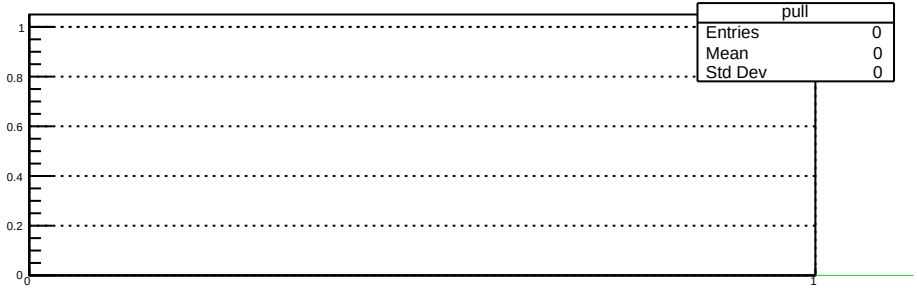
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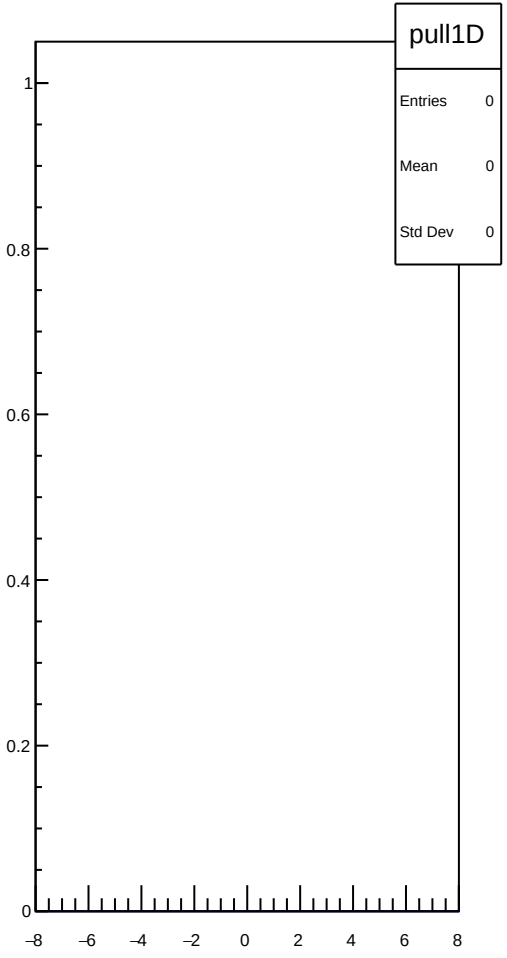
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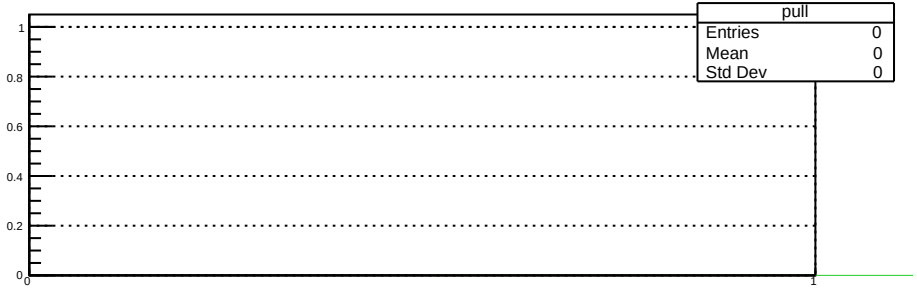
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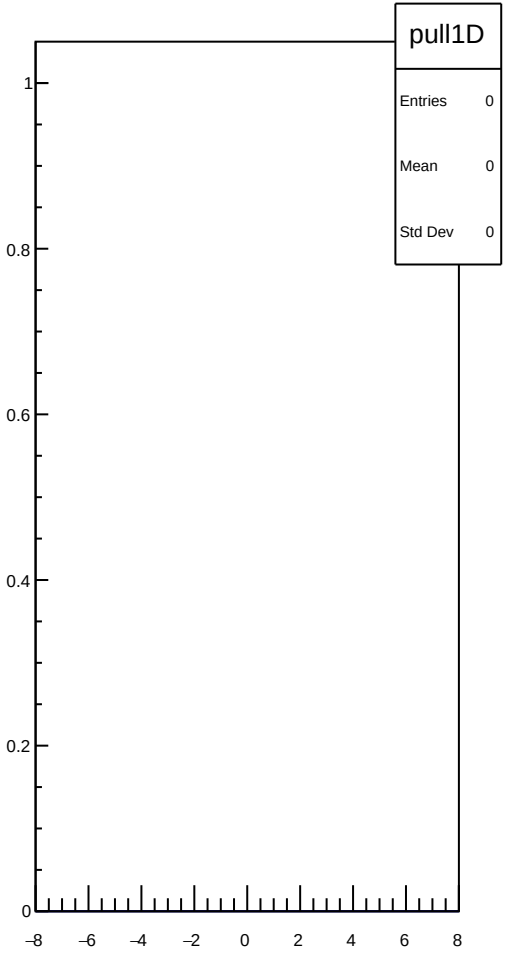
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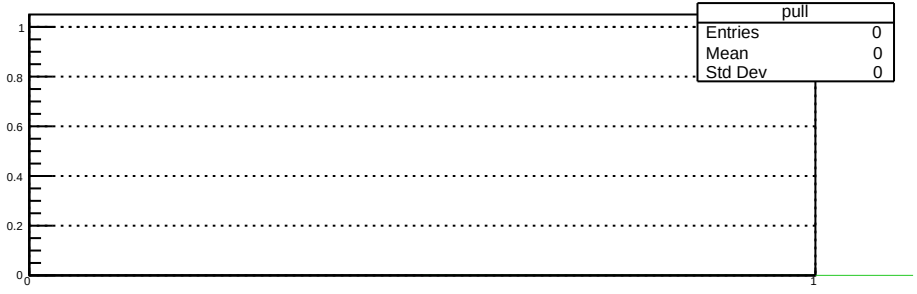
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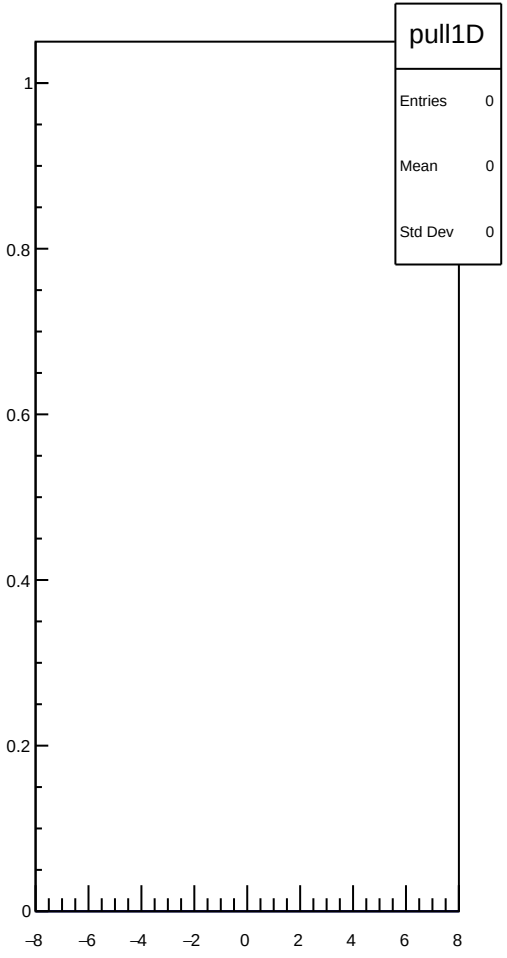
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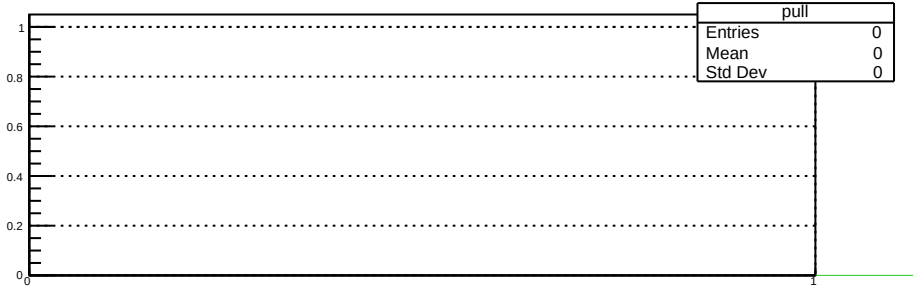
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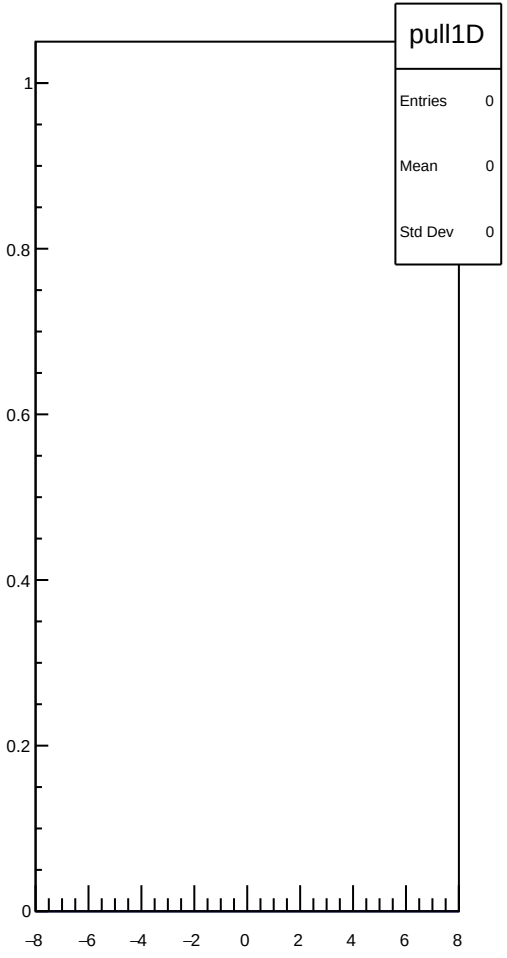
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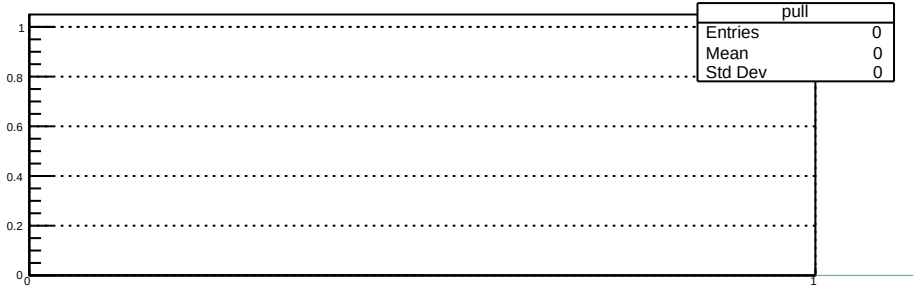
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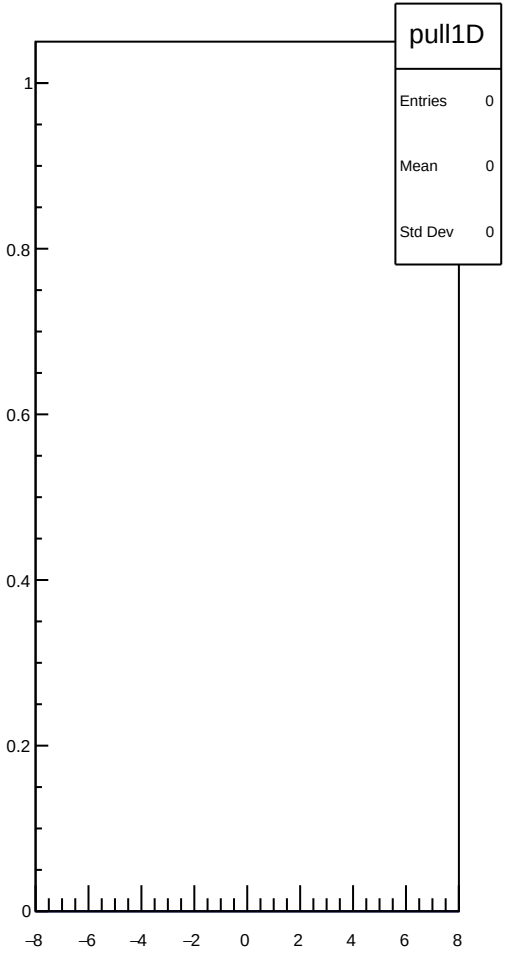
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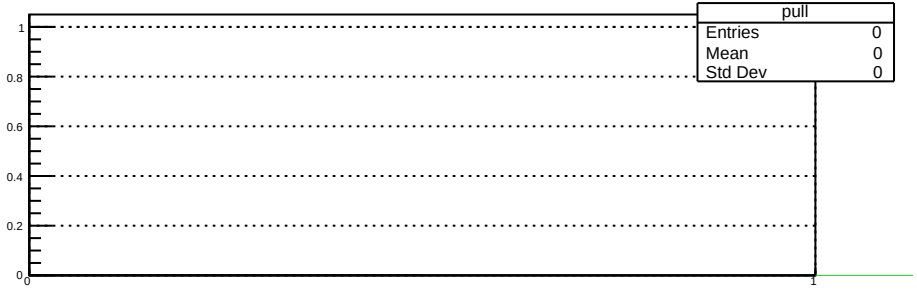
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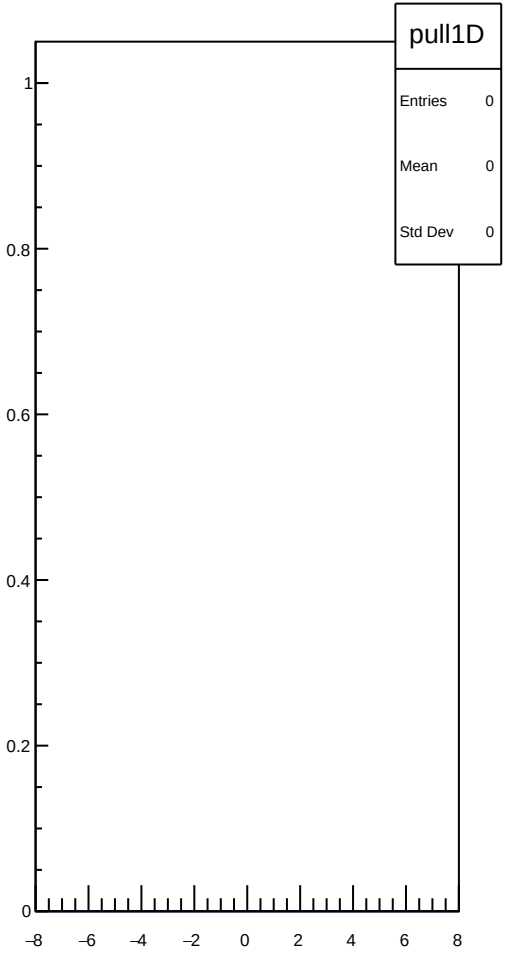
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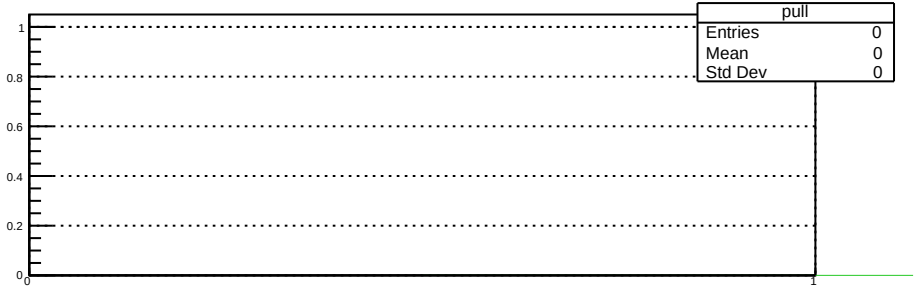
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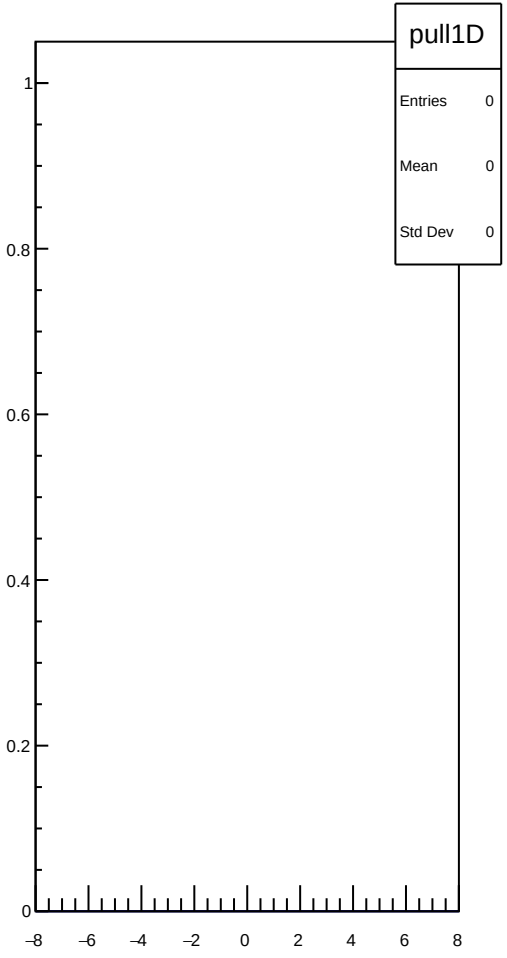
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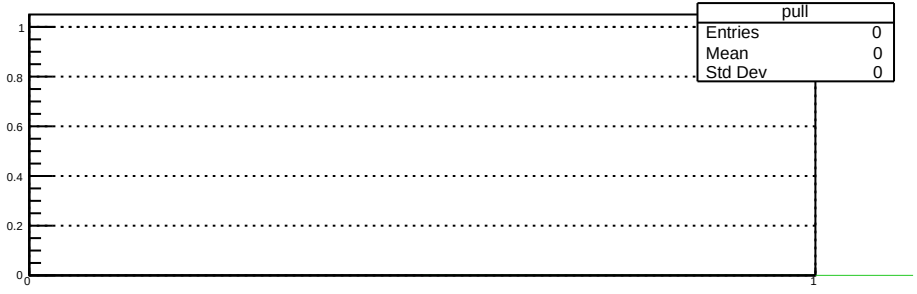
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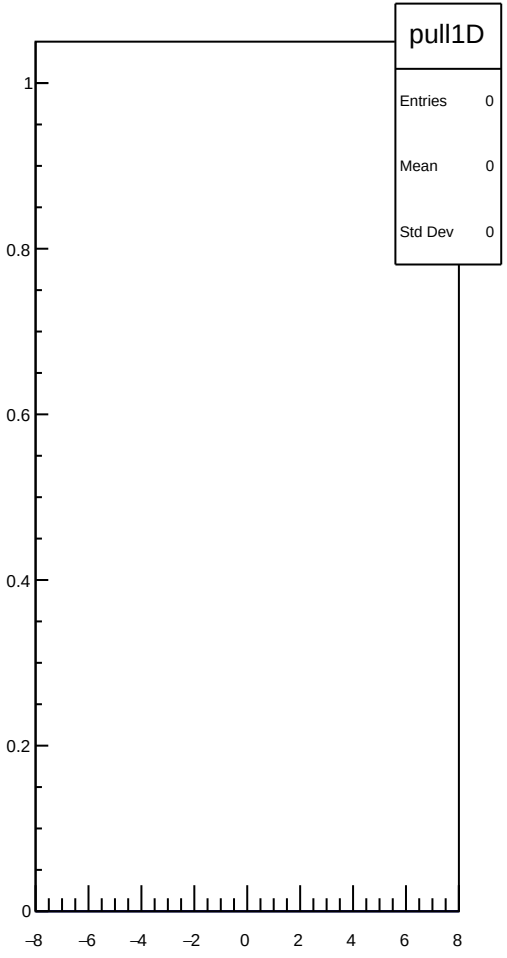
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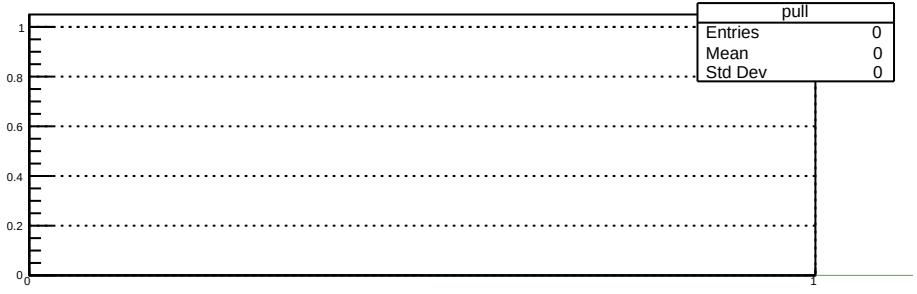
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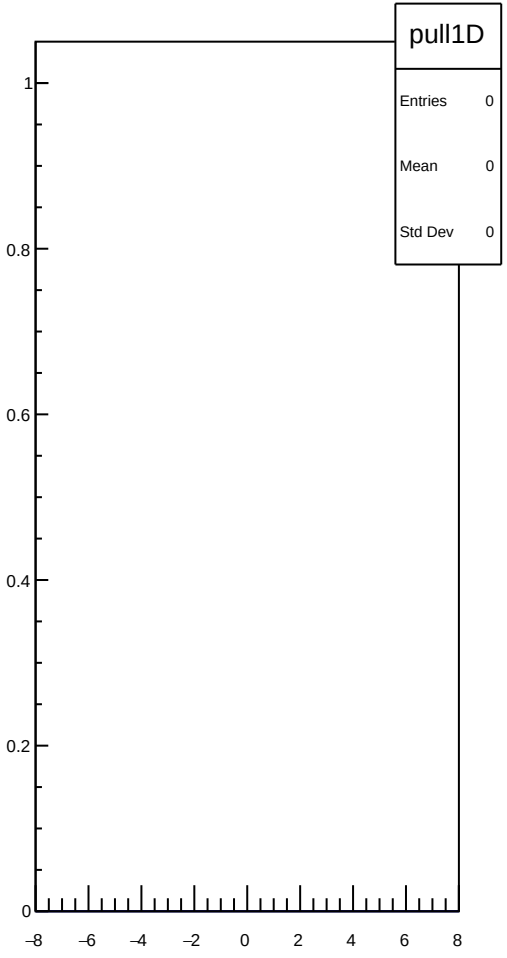
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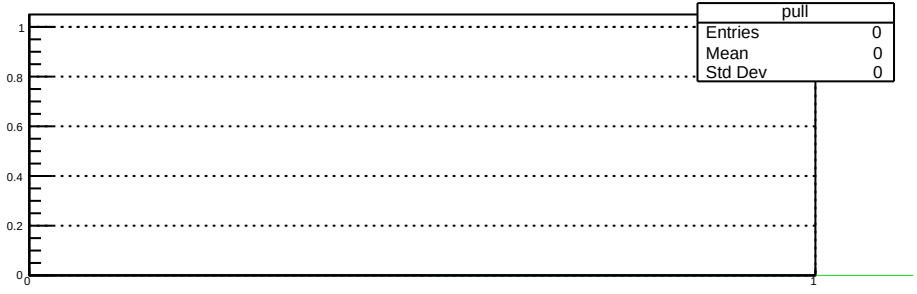
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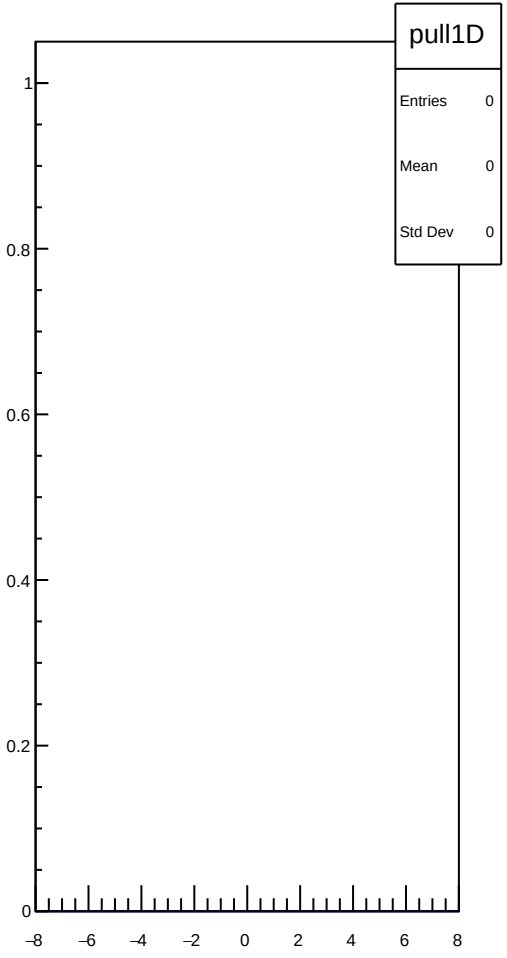
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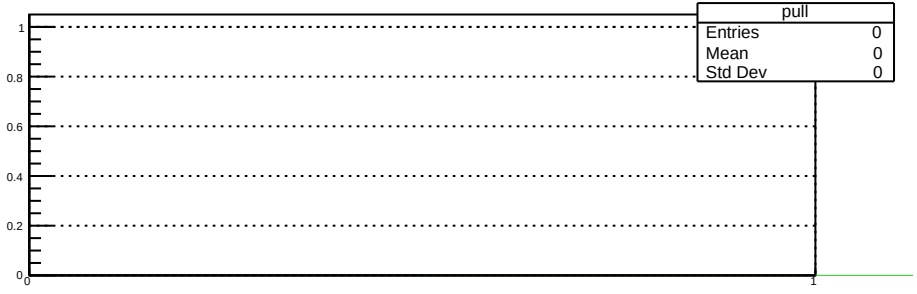
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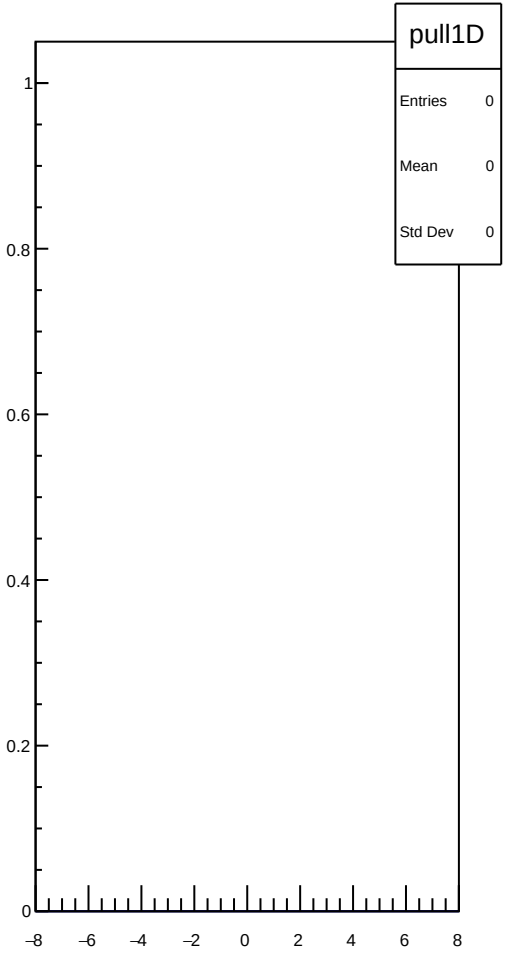
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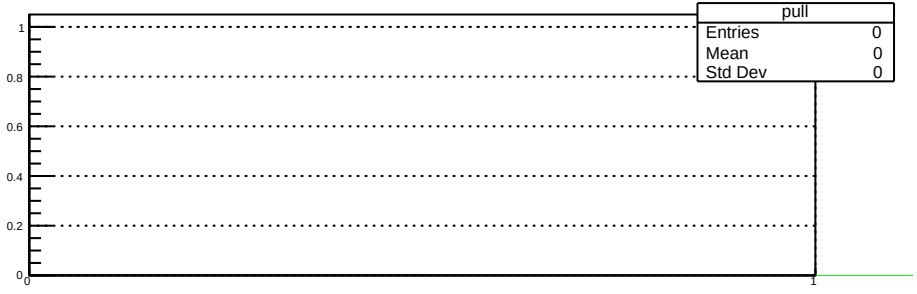
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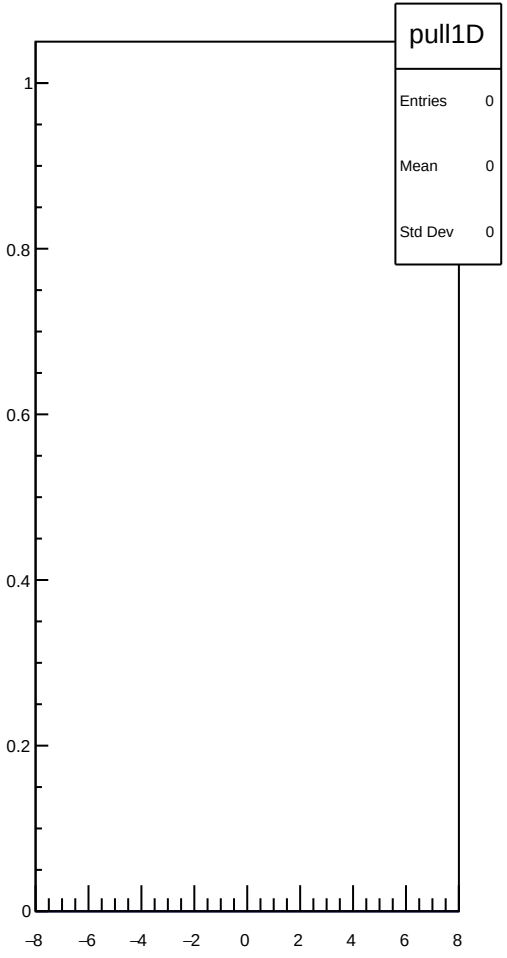
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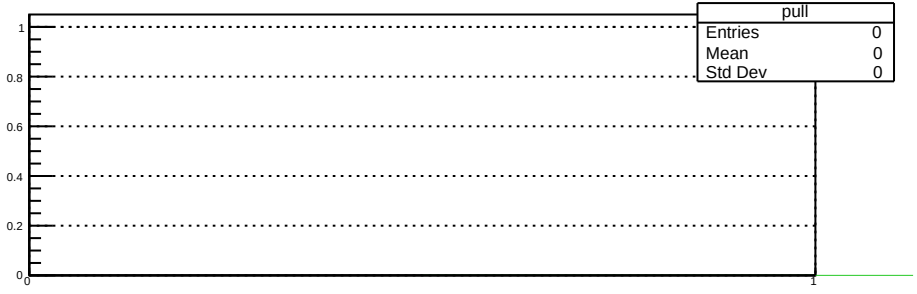
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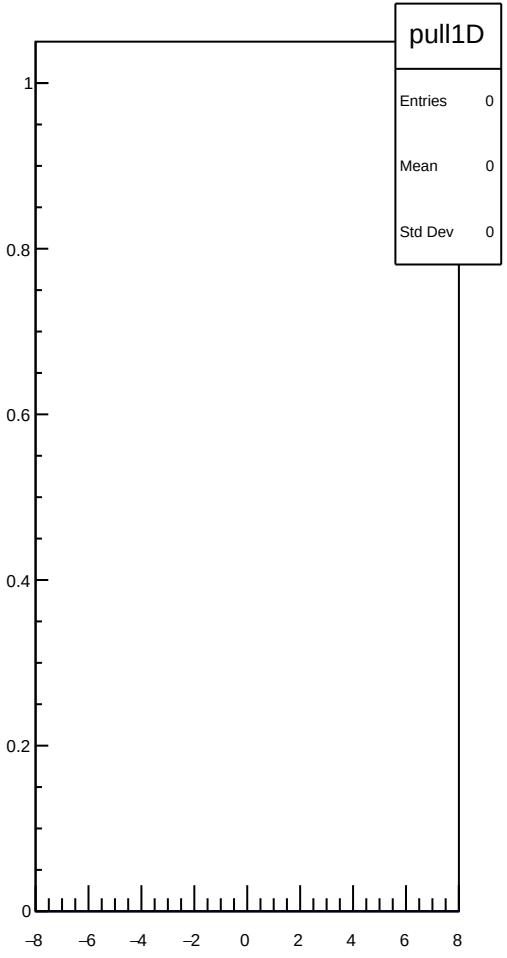
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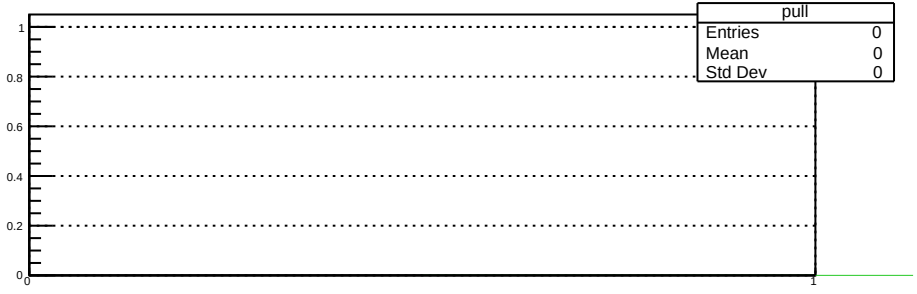
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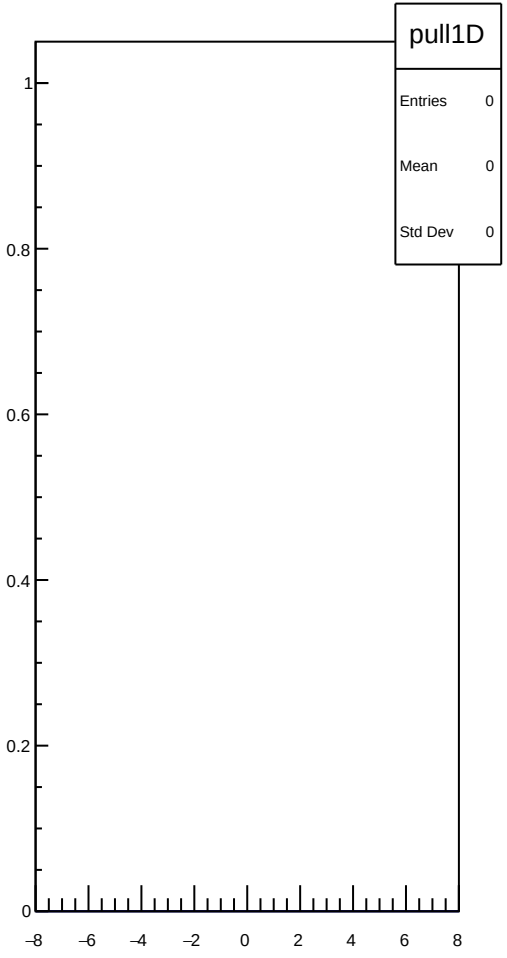
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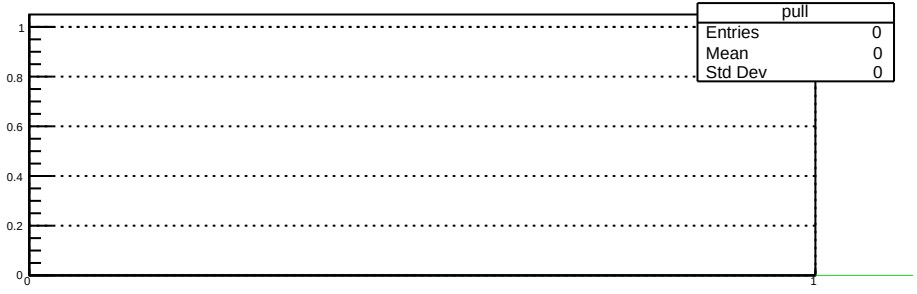
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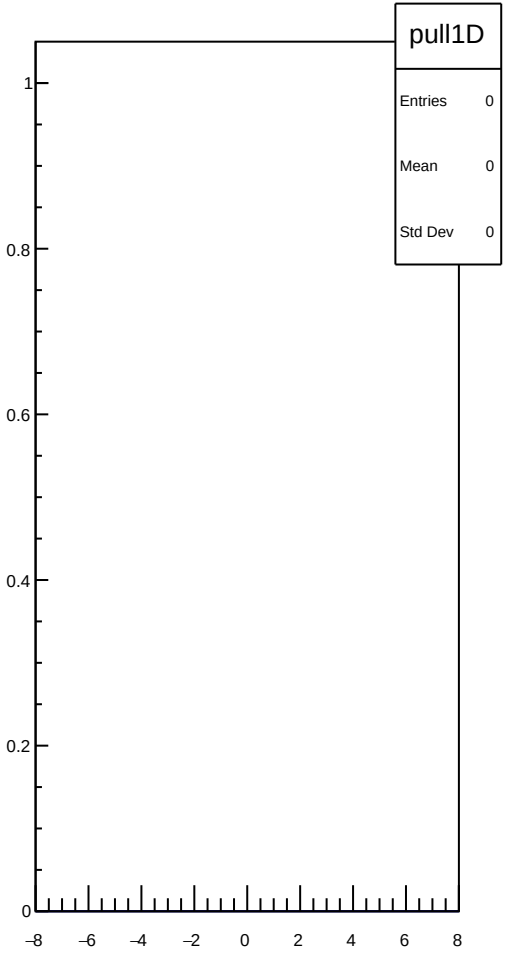
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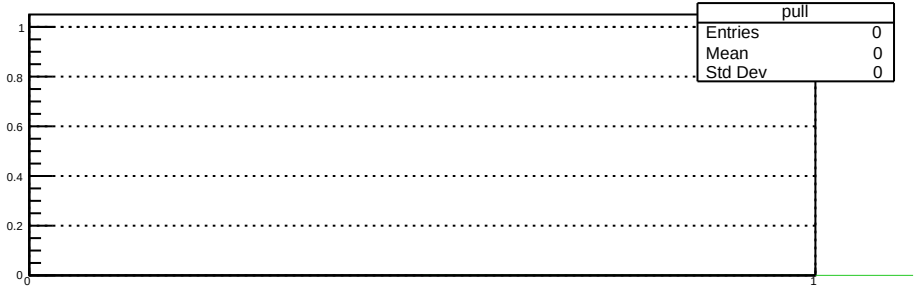
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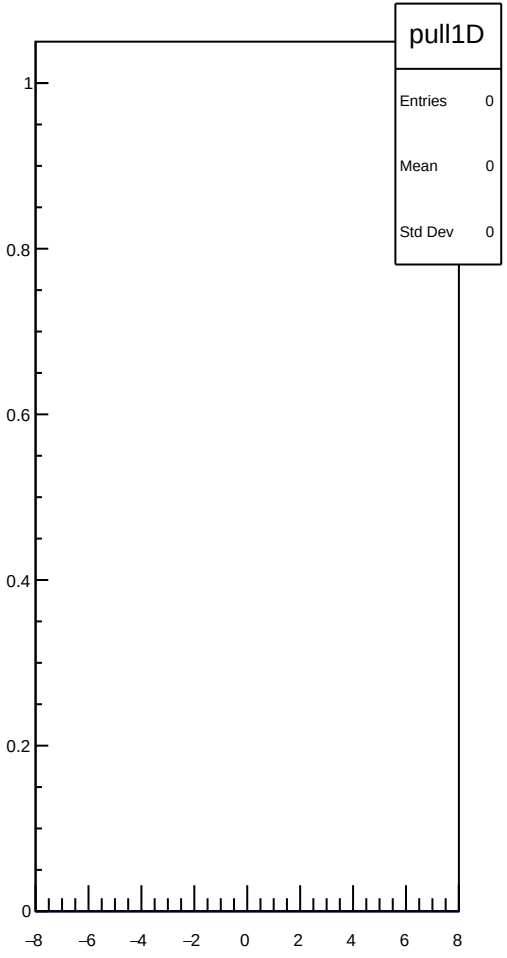
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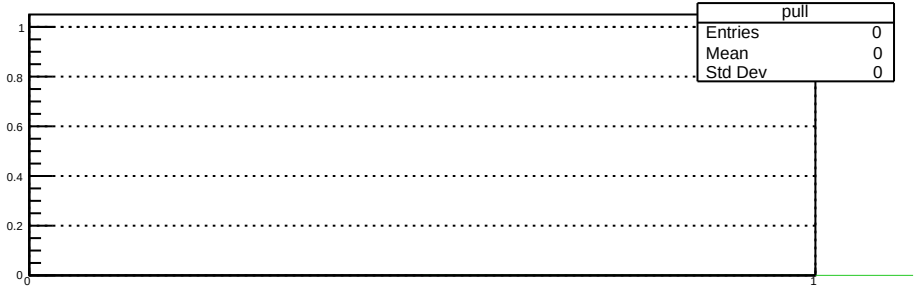
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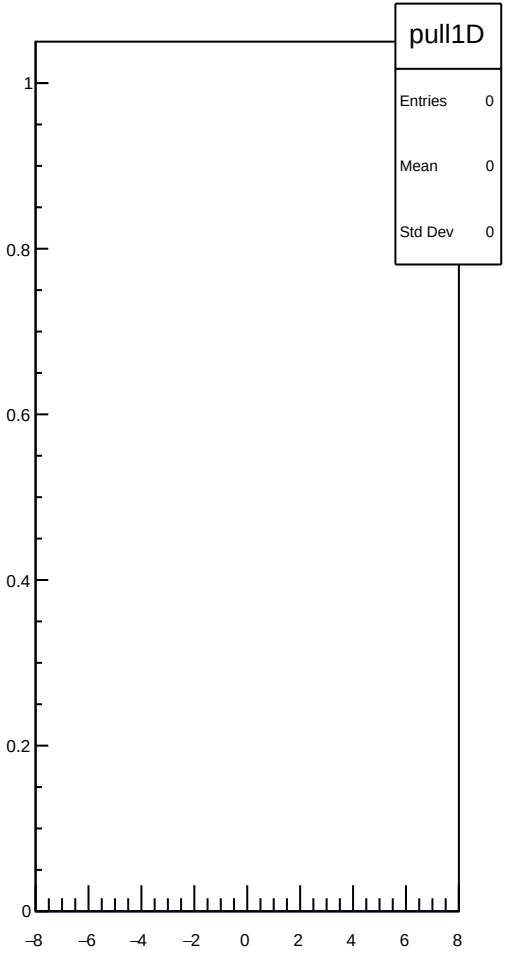
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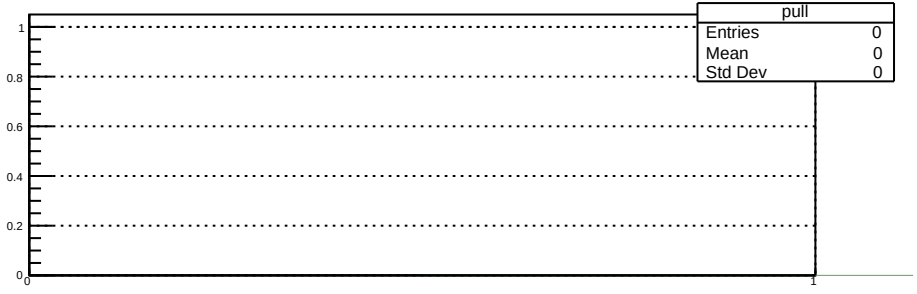
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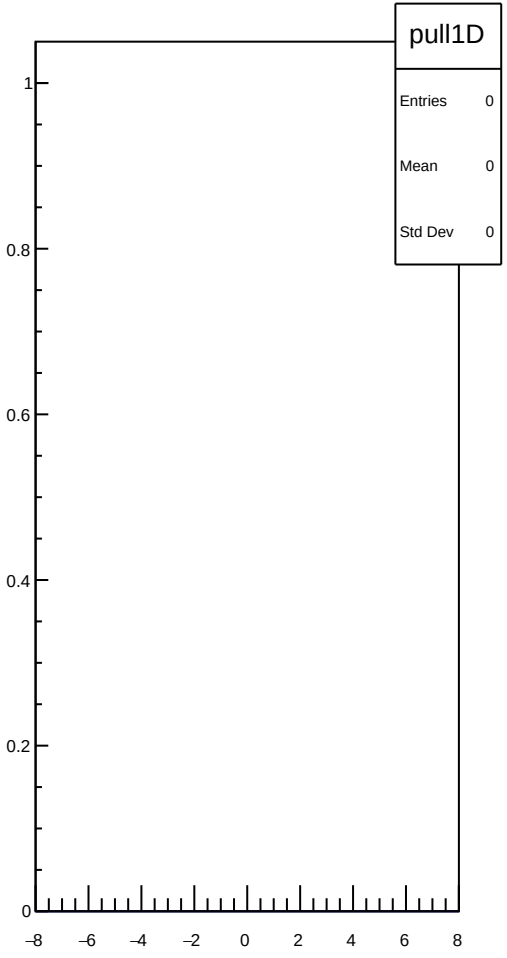
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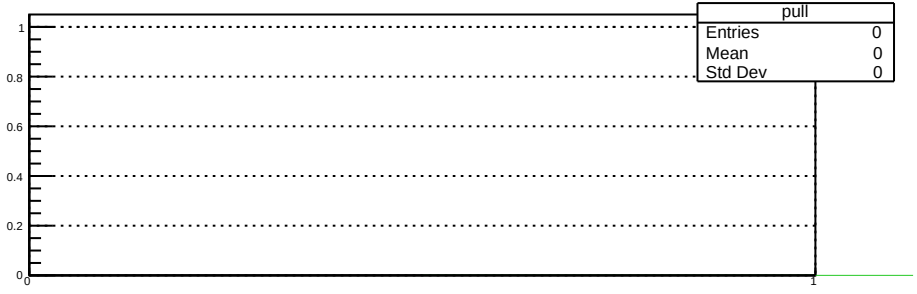
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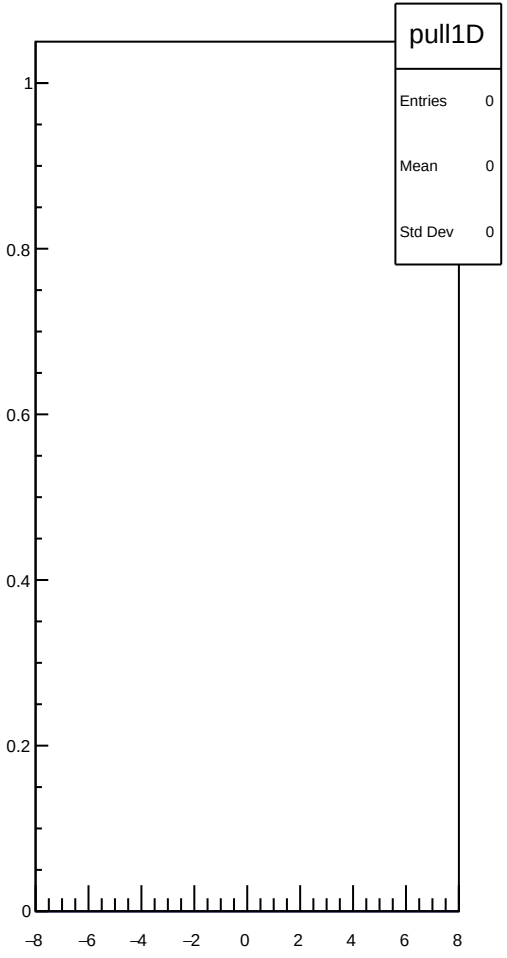
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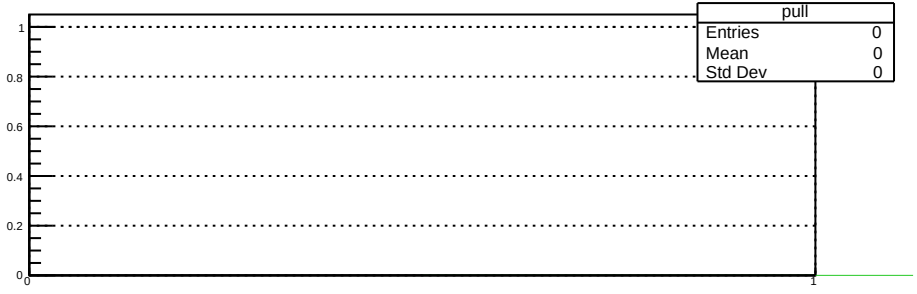
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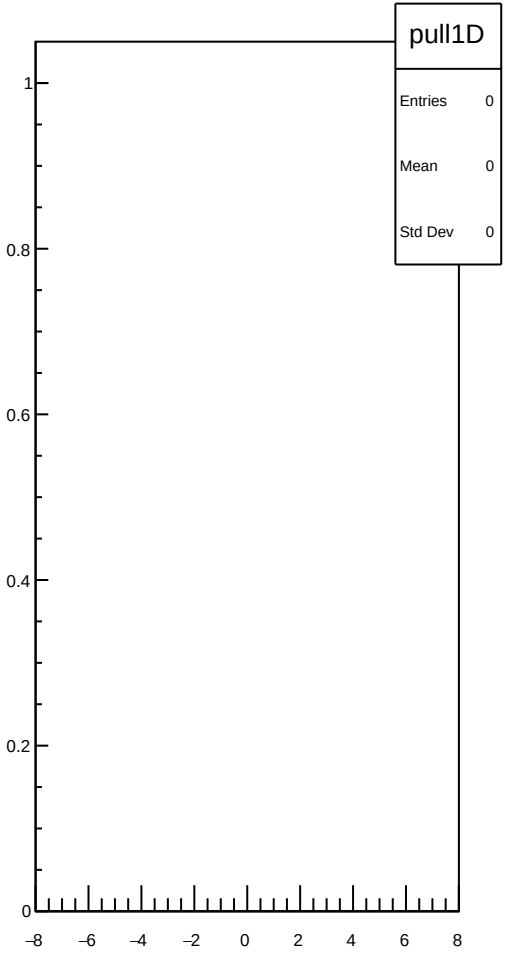
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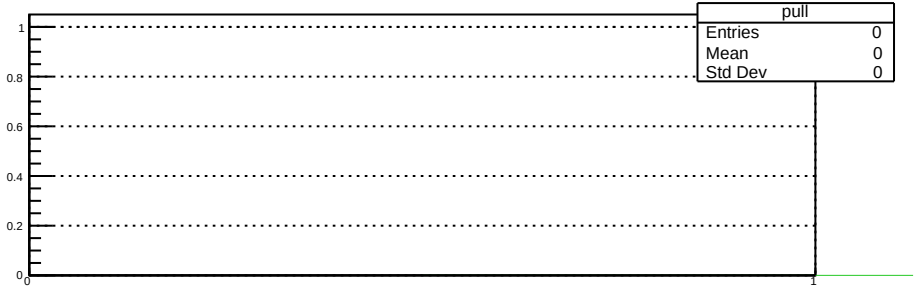
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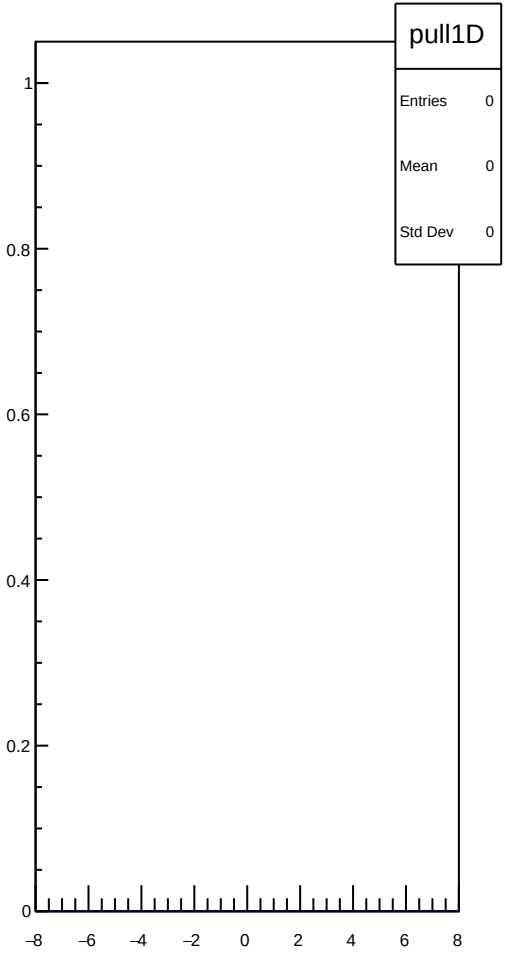
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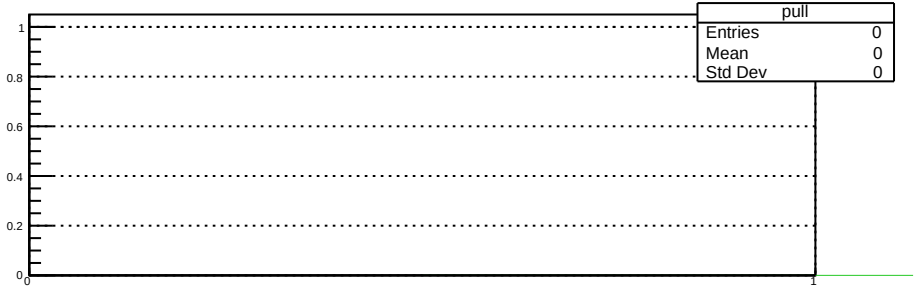
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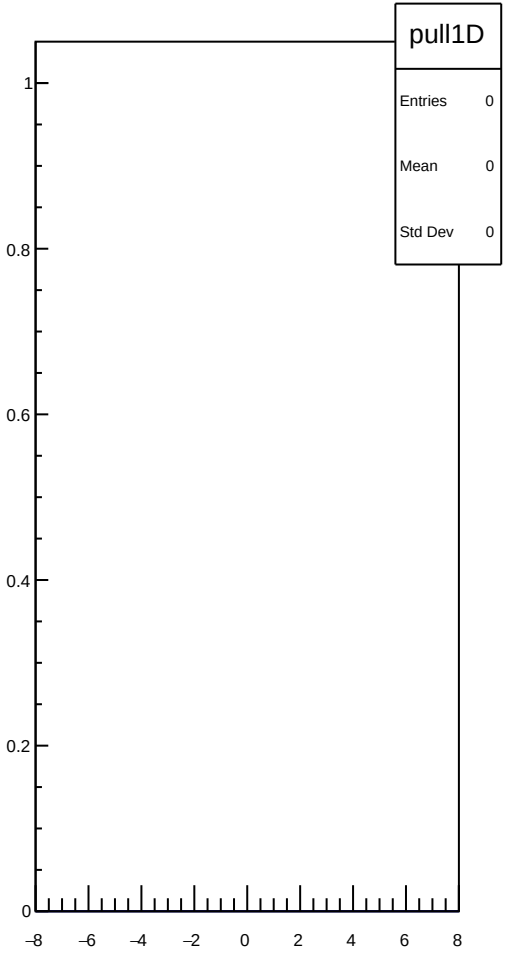
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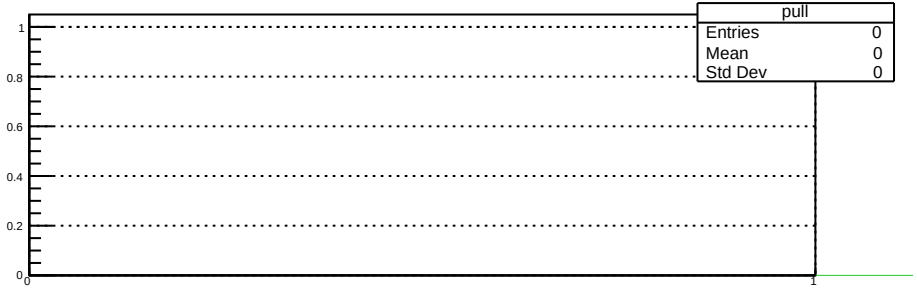
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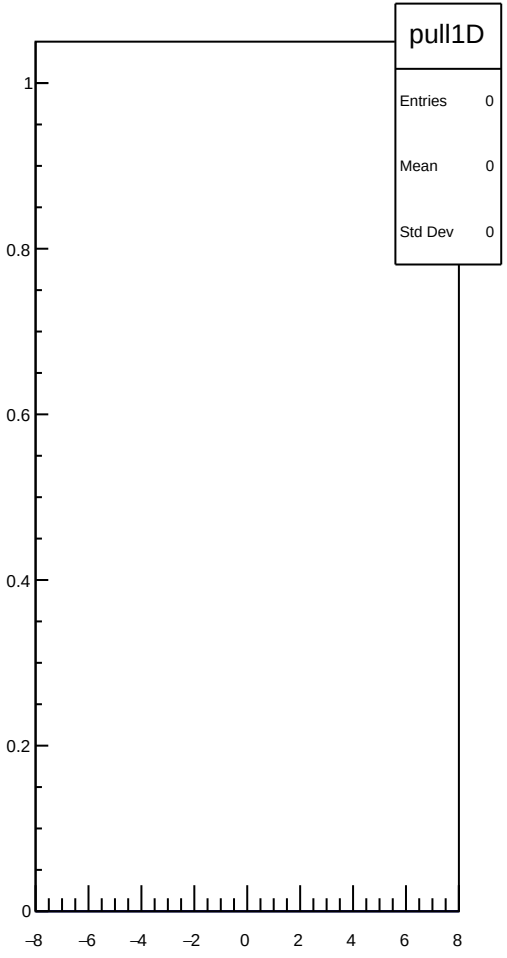
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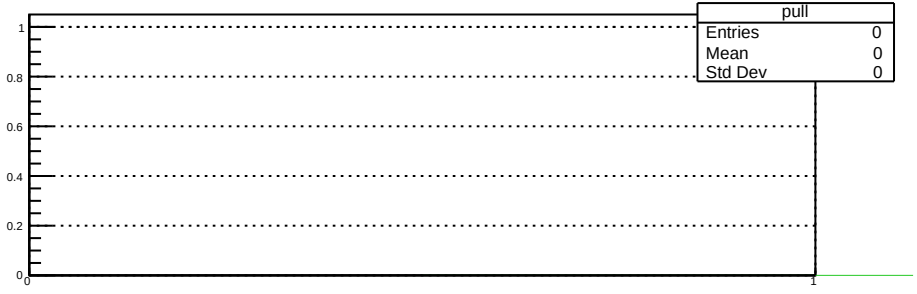
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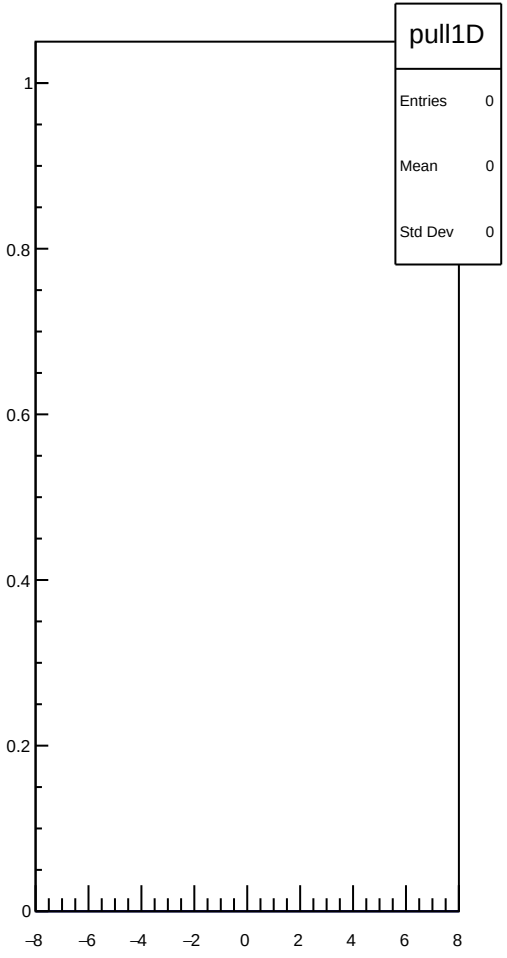
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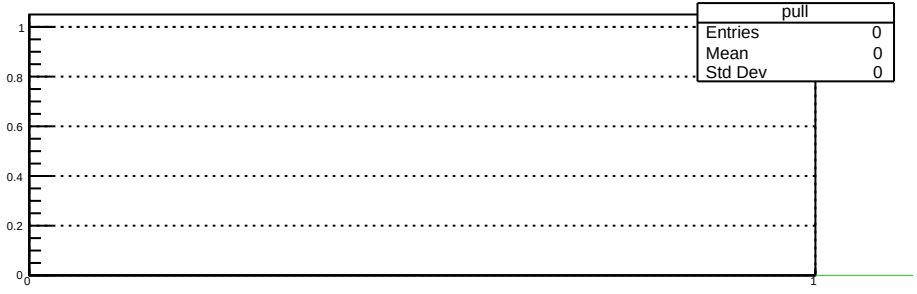
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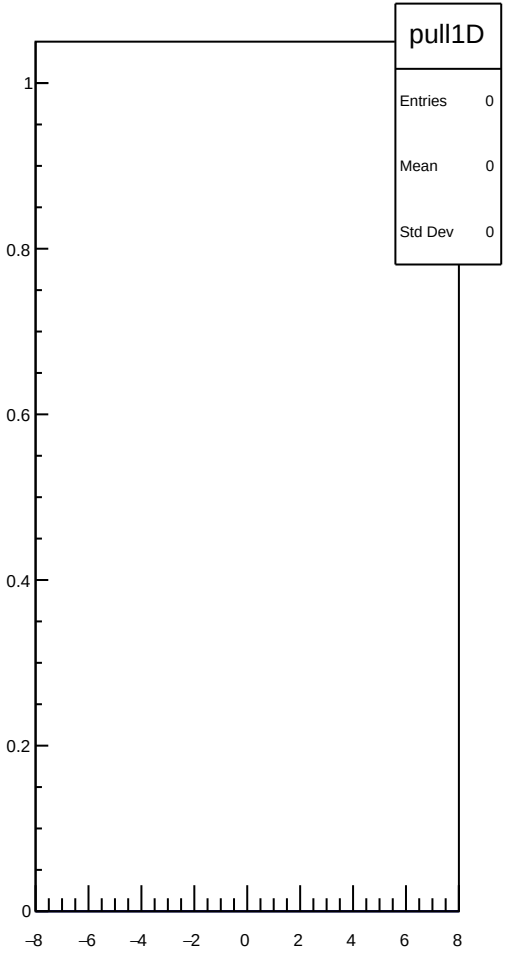
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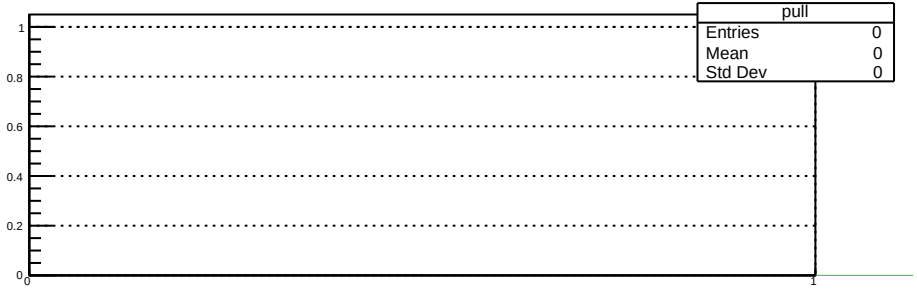
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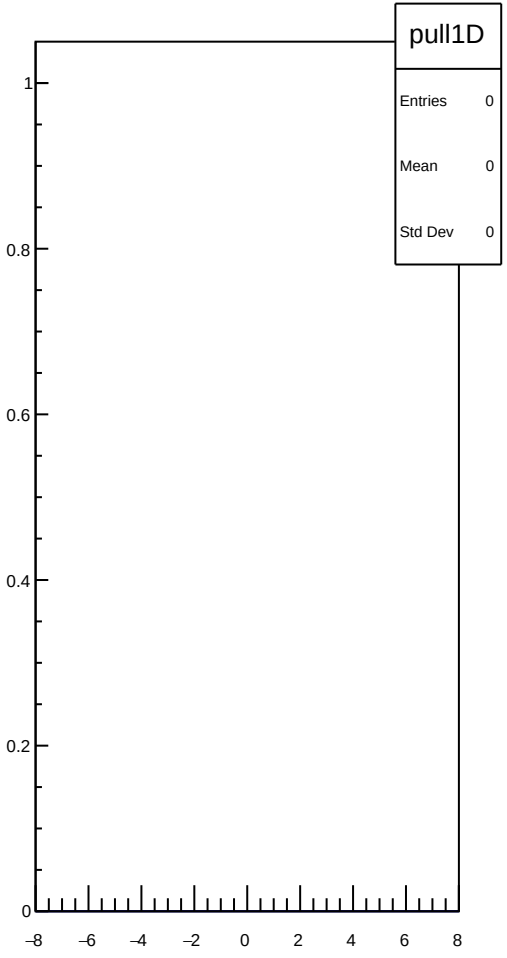
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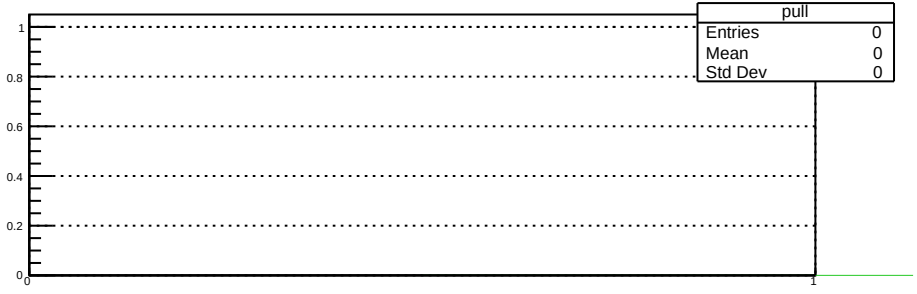
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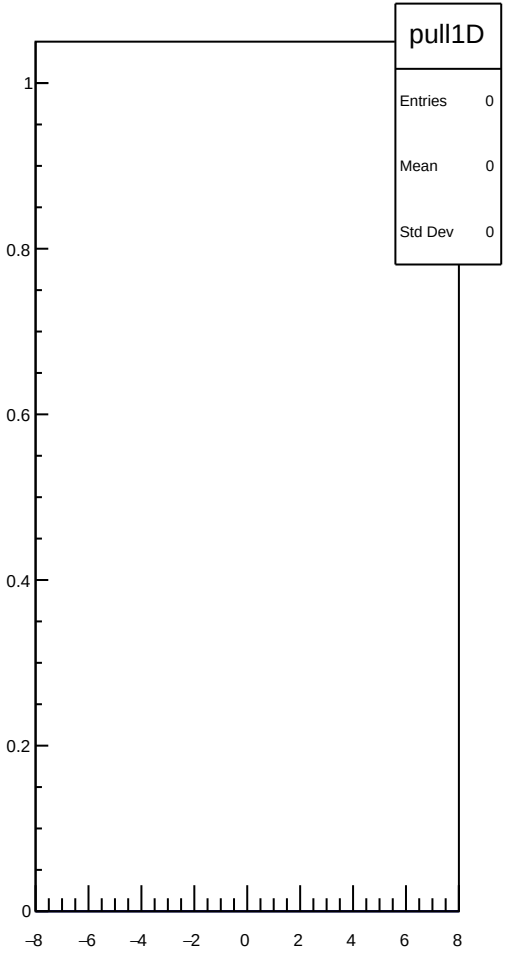
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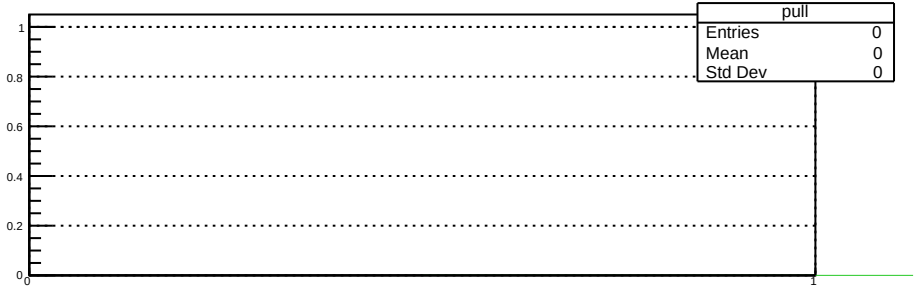
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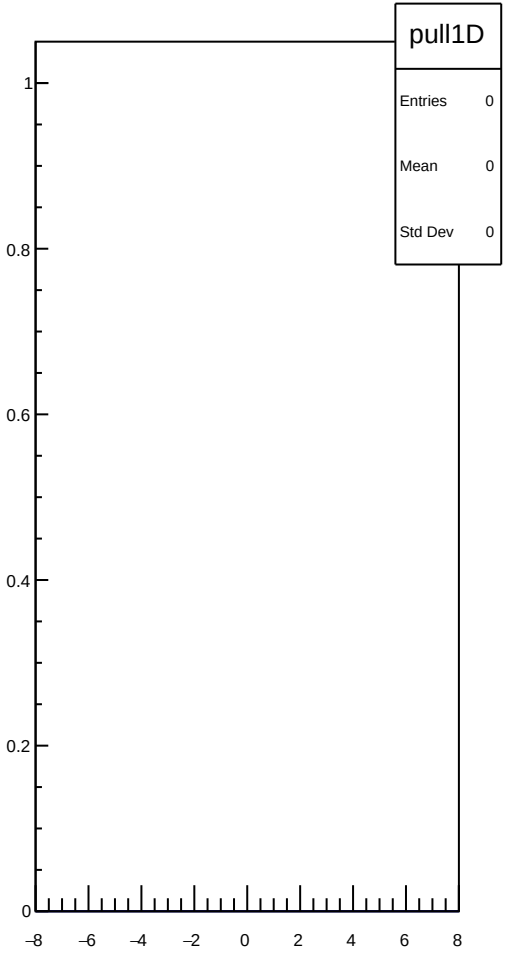
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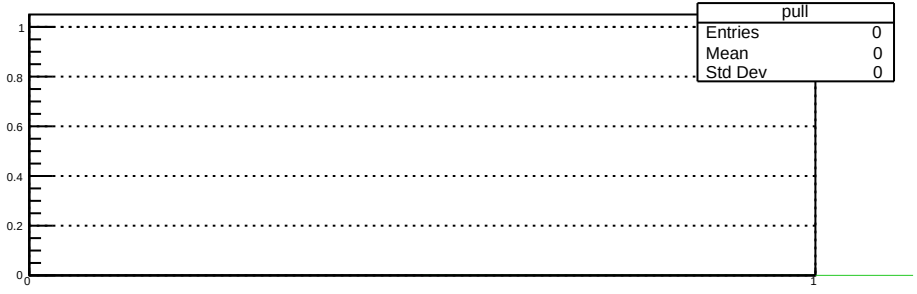
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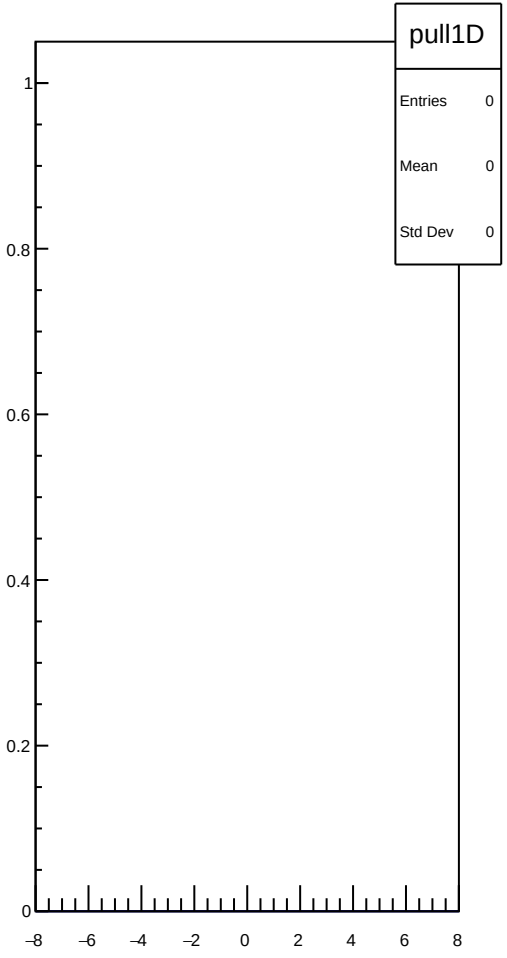
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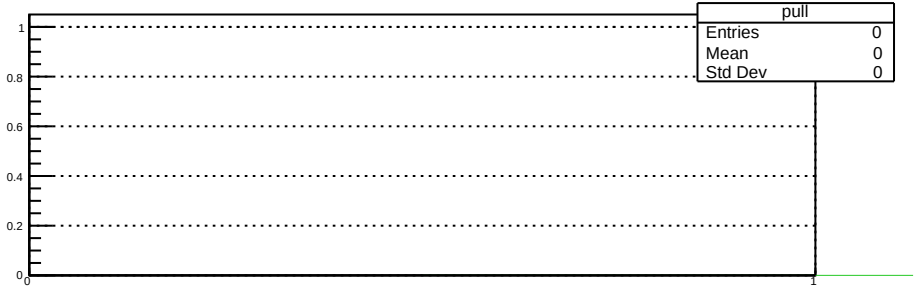
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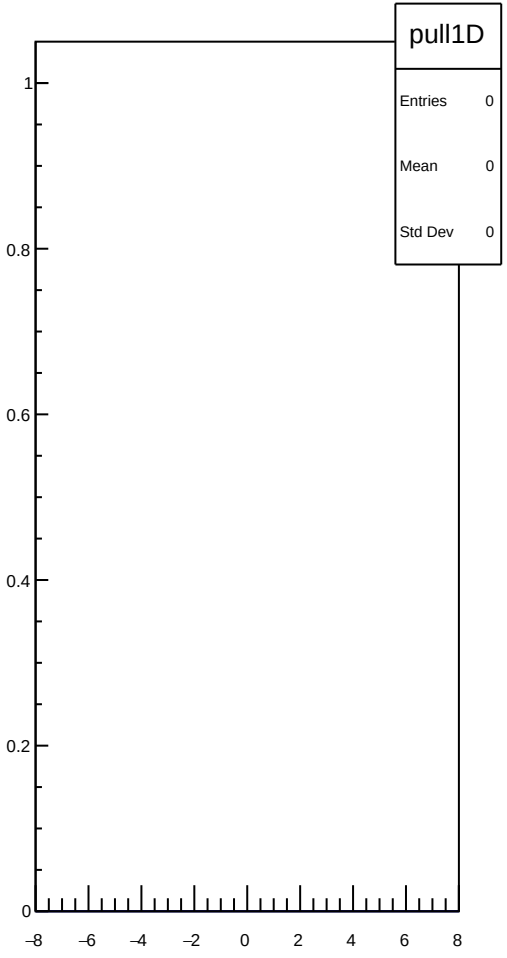
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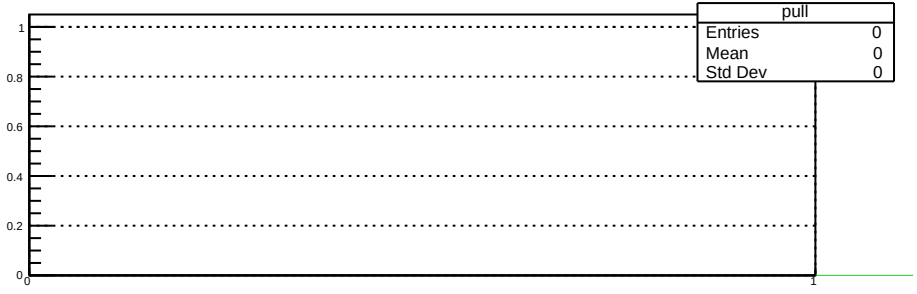
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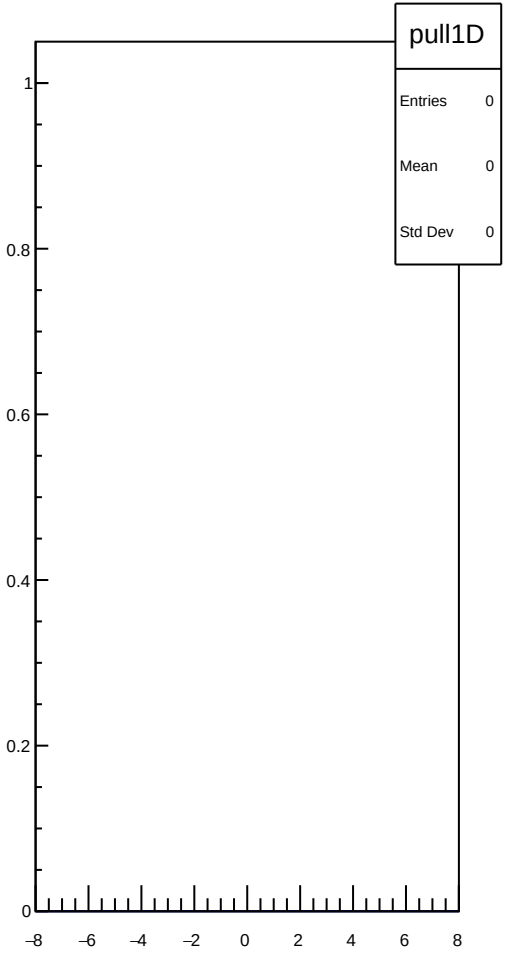
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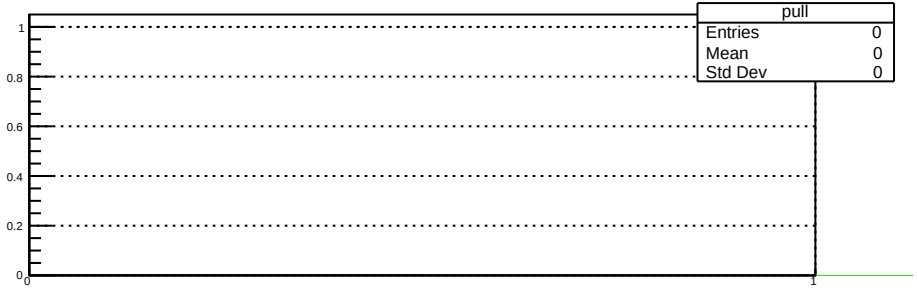
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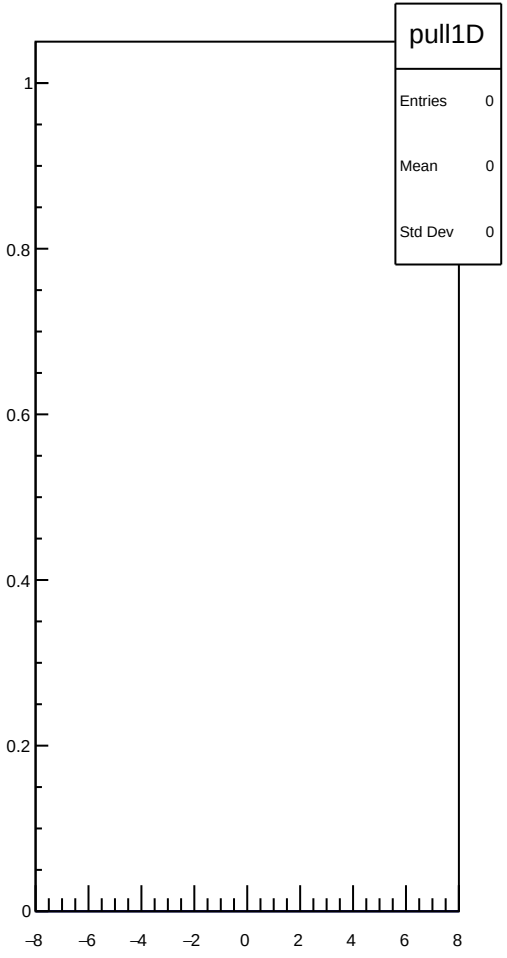
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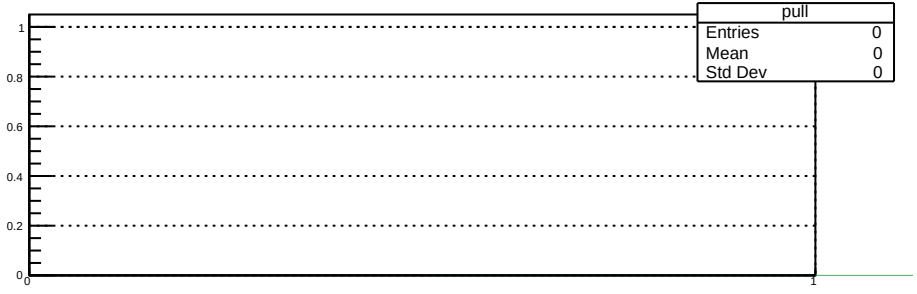
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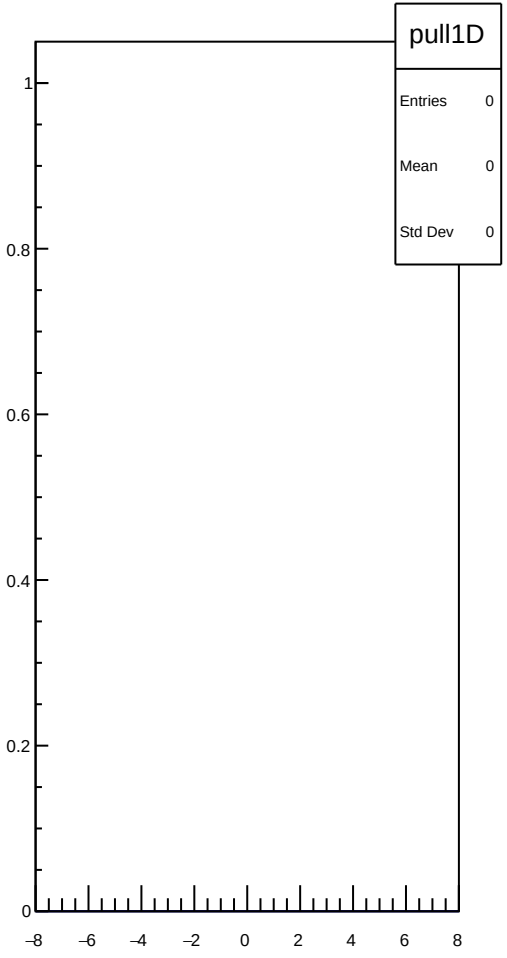
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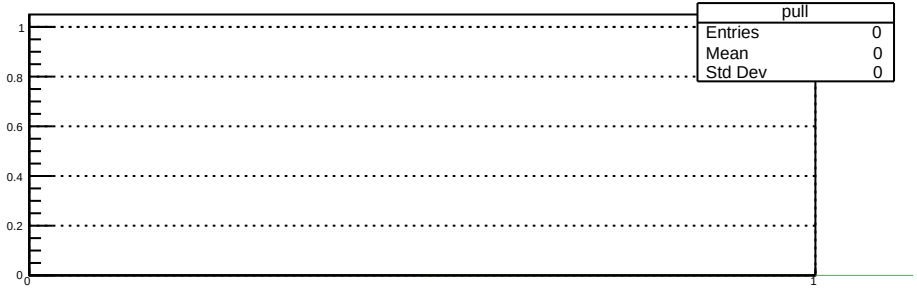
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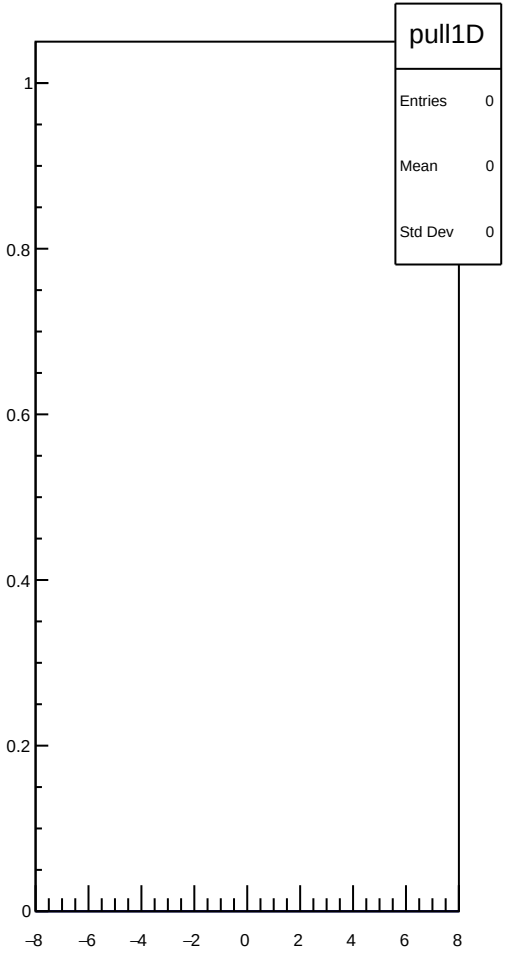
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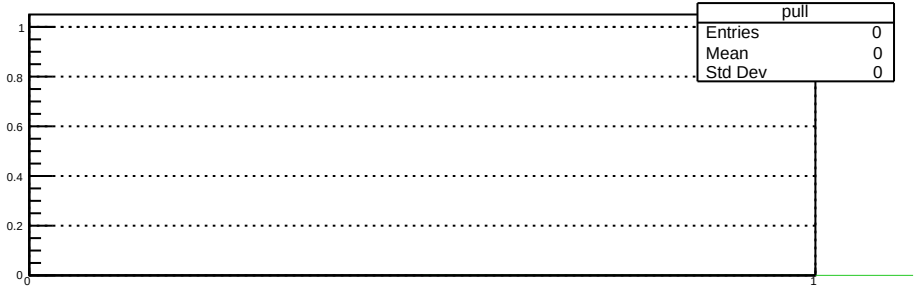
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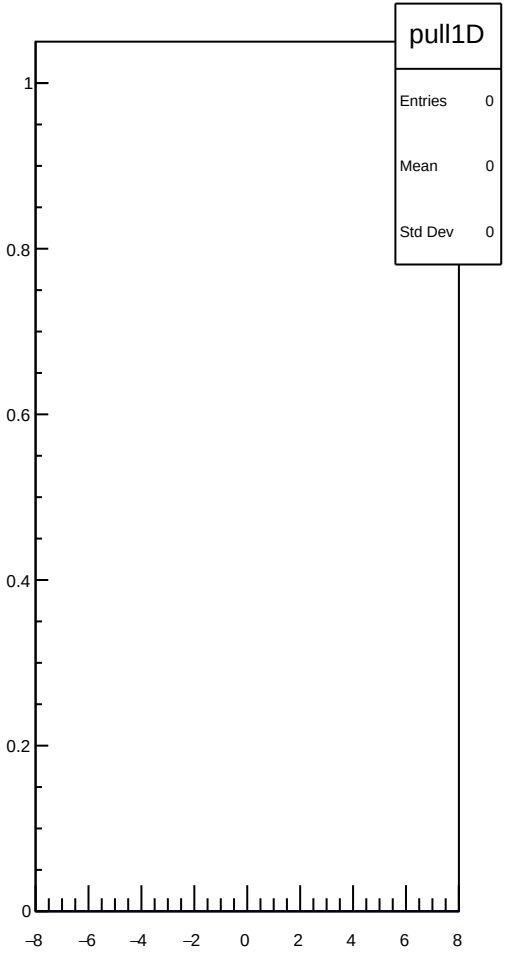
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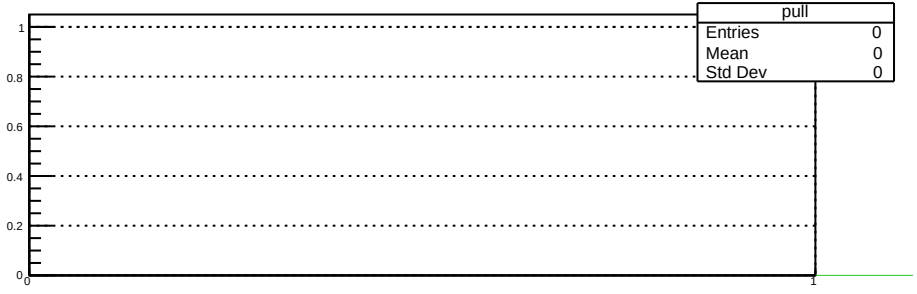
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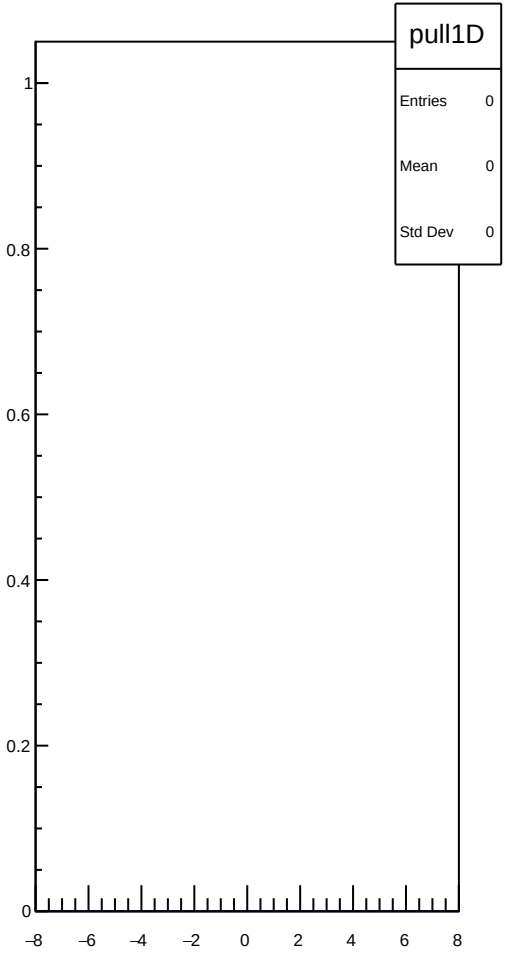
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
0.2
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–4
–2
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6
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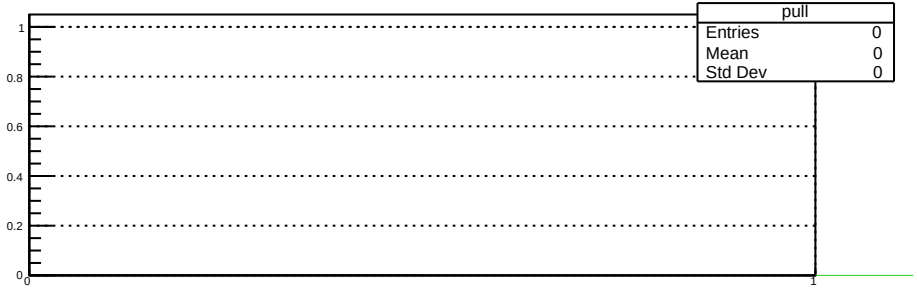
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Mean 0
Std Dev 0
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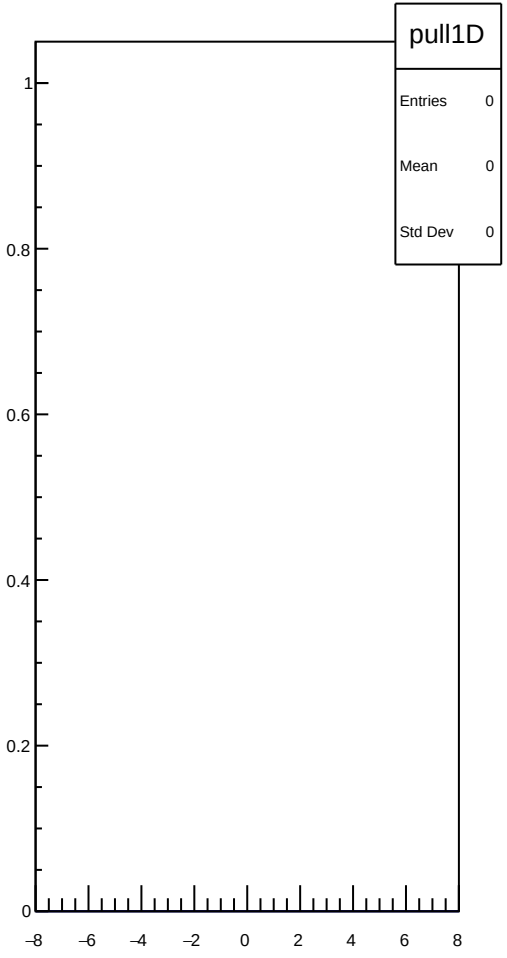
pull1D
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Mean 0
Std Dev 0
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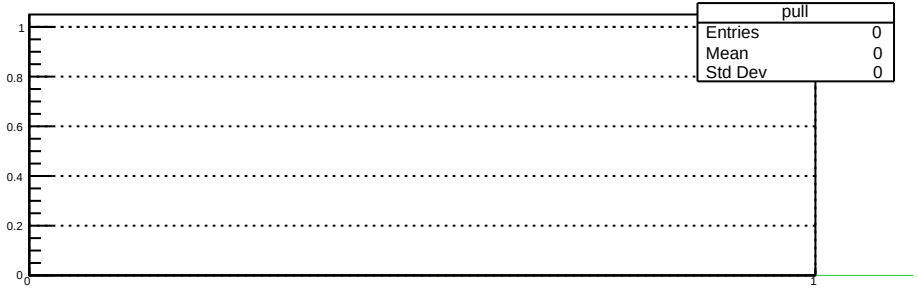
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Mean 0
Std Dev 0
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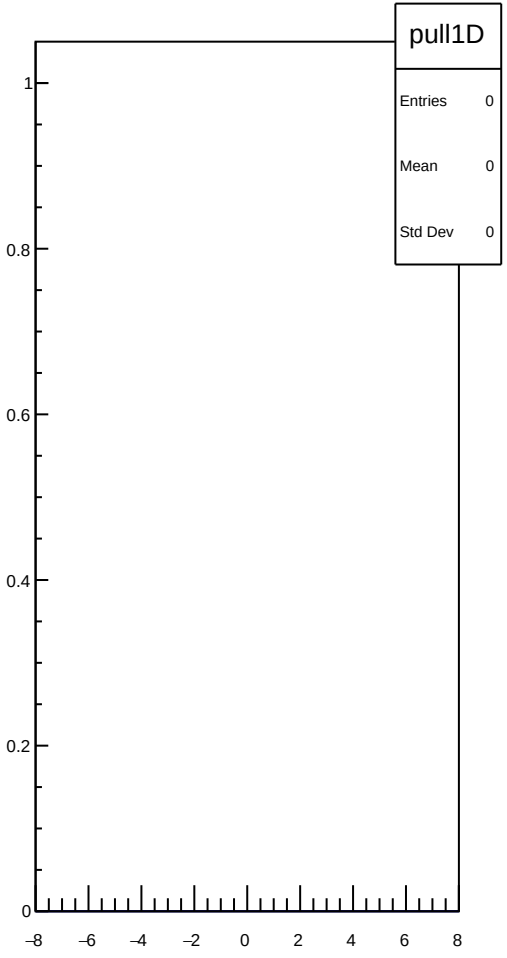
pull1D
Entries 0
Mean 0
Std Dev 0
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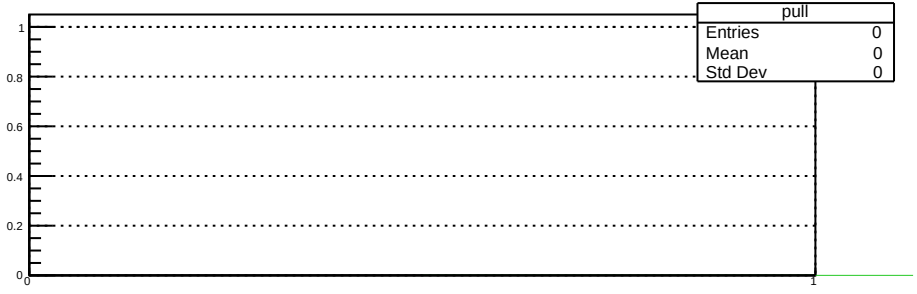
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Std Dev 0
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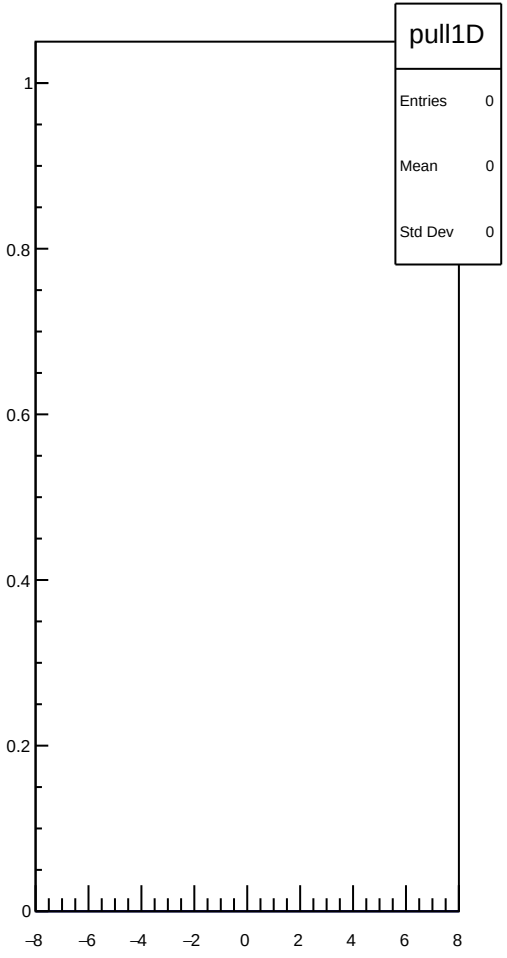
pull1D
Entries 0
Mean 0
Std Dev 0
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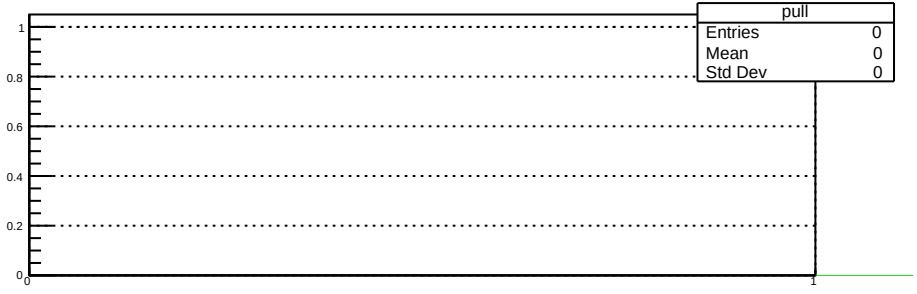
pull
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Std Dev 0
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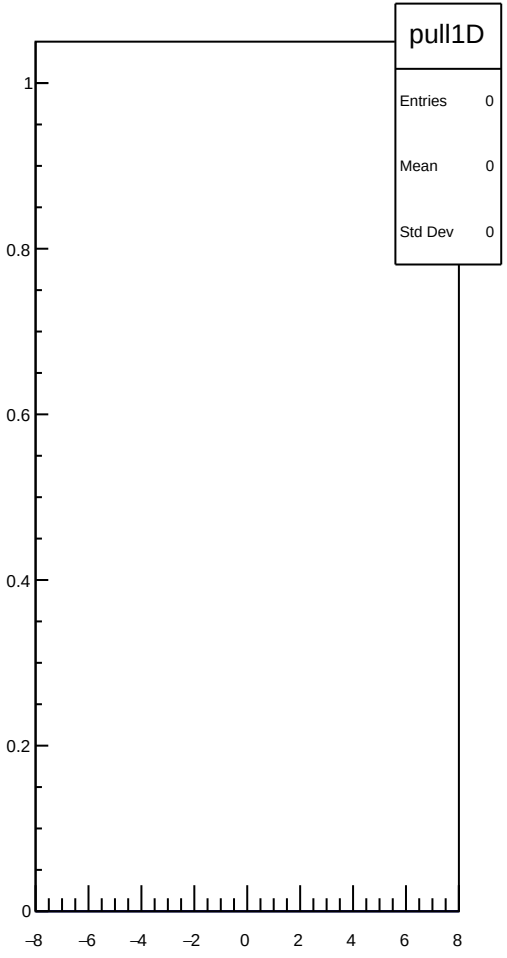
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Mean 0
Std Dev 0
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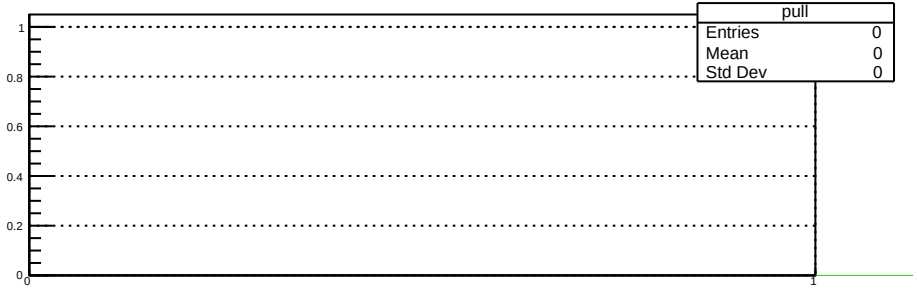
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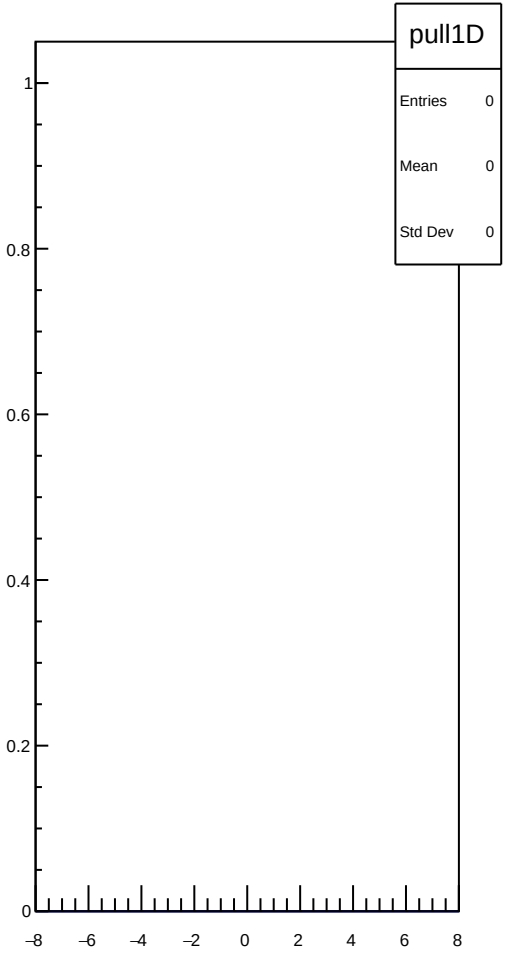
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Std Dev 0
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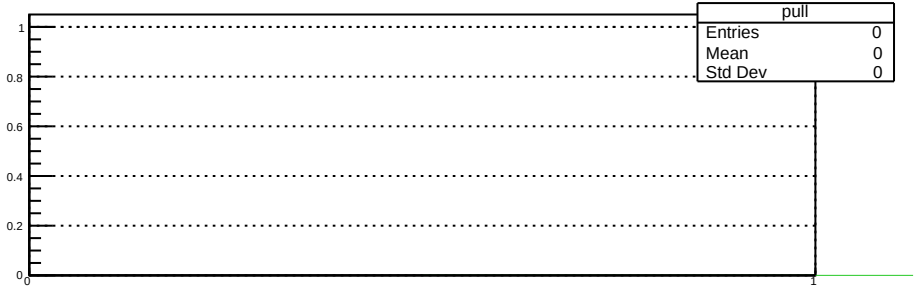
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Mean 0
Std Dev 0
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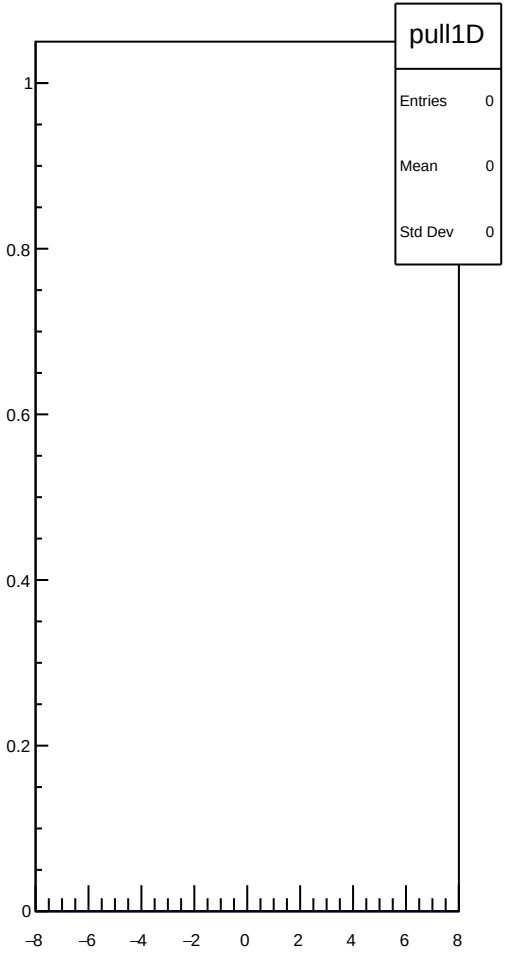
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Mean 0
Std Dev 0
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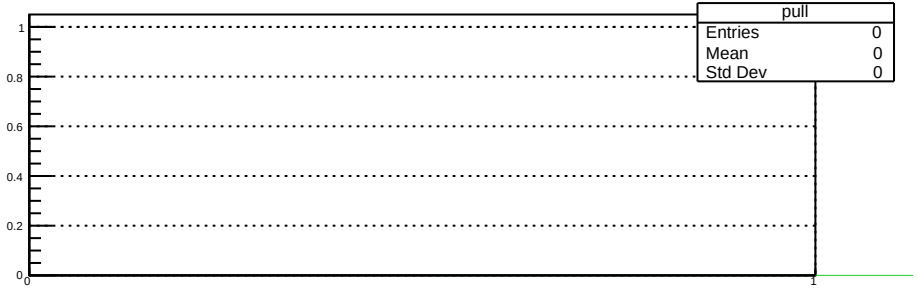
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Mean 0
Std Dev 0
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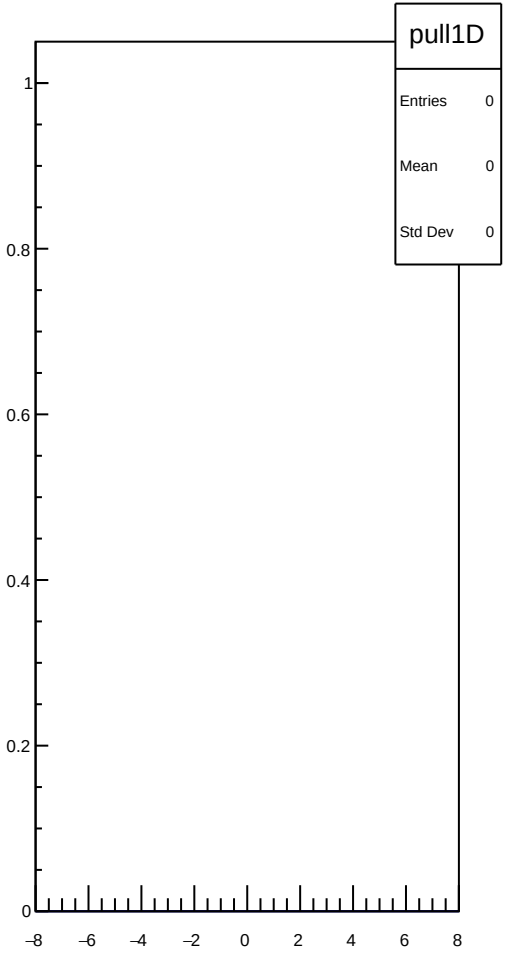
pull1D
Entries 0
Mean 0
Std Dev 0
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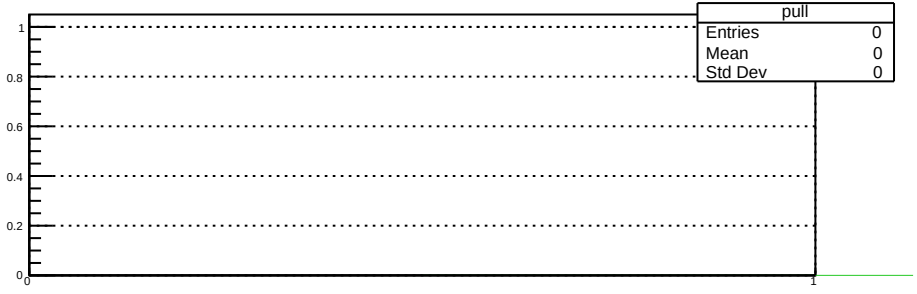
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Mean 0
Std Dev 0
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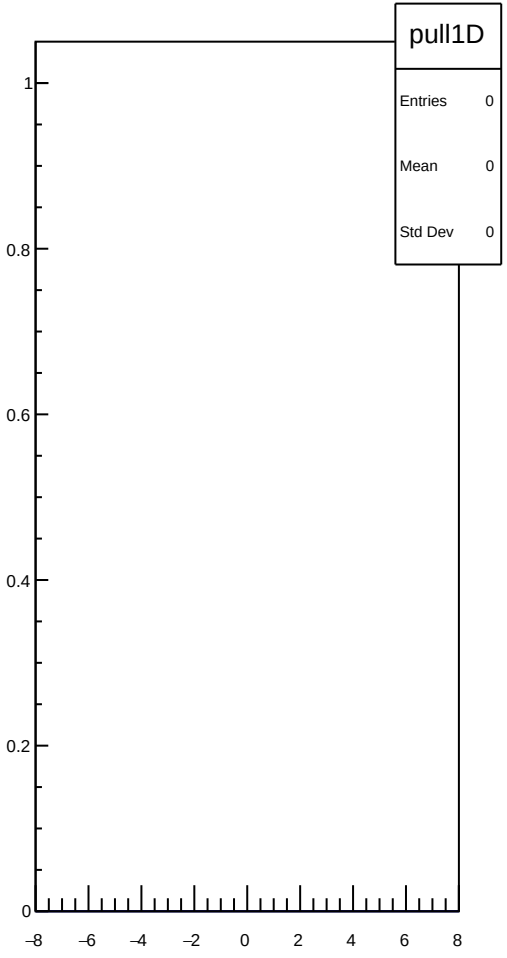
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Mean 0
Std Dev 0
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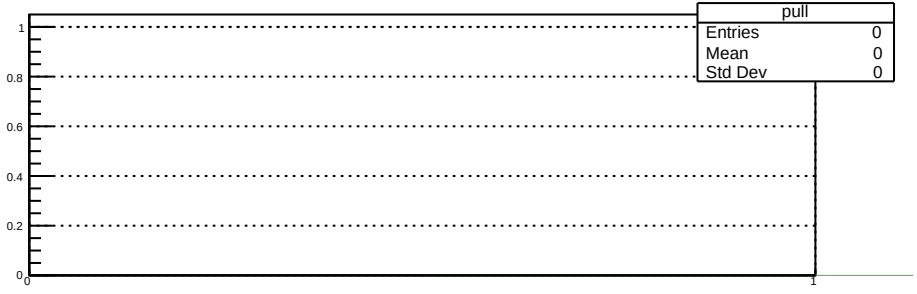
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Entries 0
Mean 0
Std Dev 0
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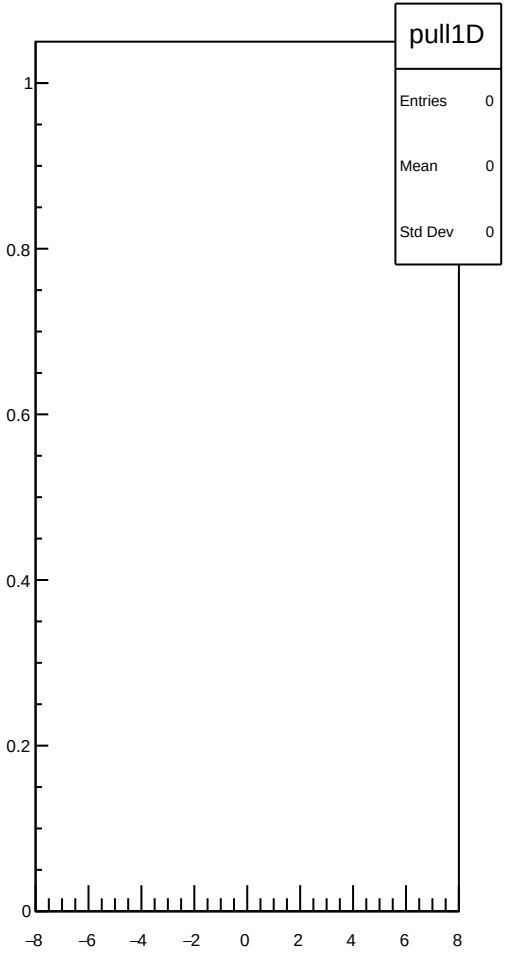
pull1D
Entries 0
Mean 0
Std Dev 0
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0.4
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0
–8
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–4
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6
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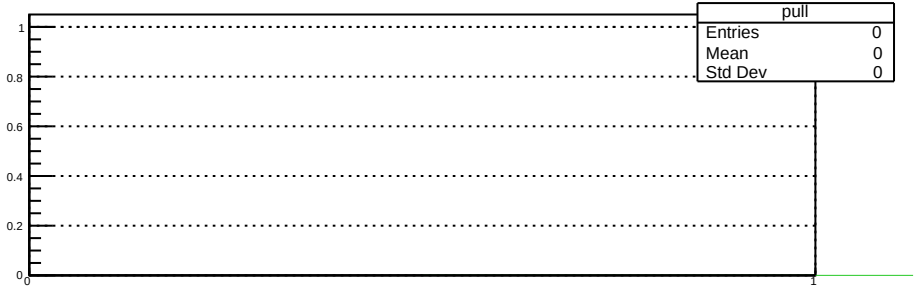
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Entries 0
Mean 0
Std Dev 0
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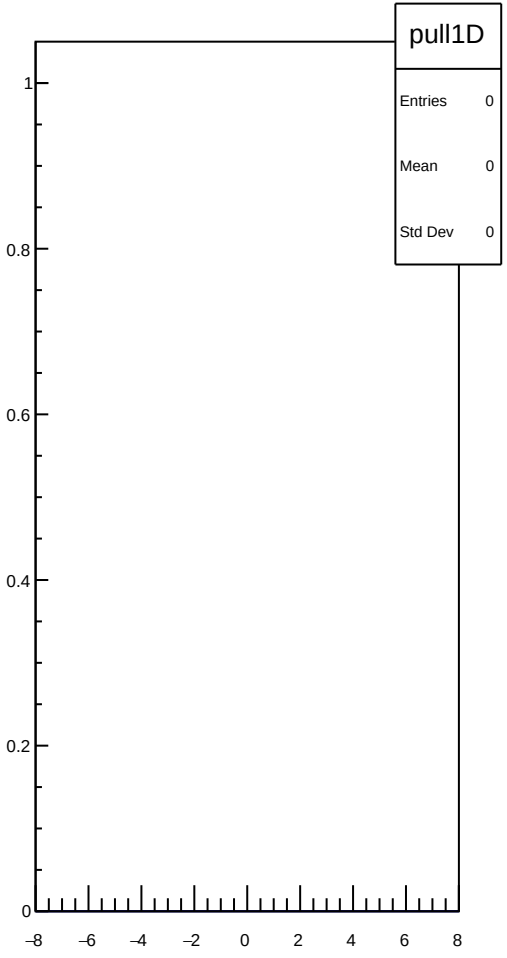
pull1D
Entries 0
Mean 0
Std Dev 0
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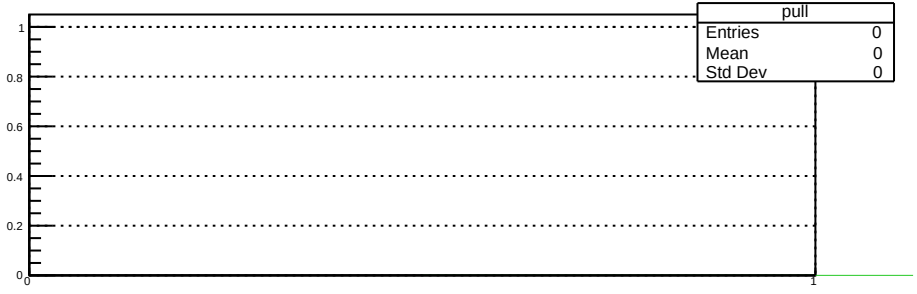
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Mean 0
Std Dev 0
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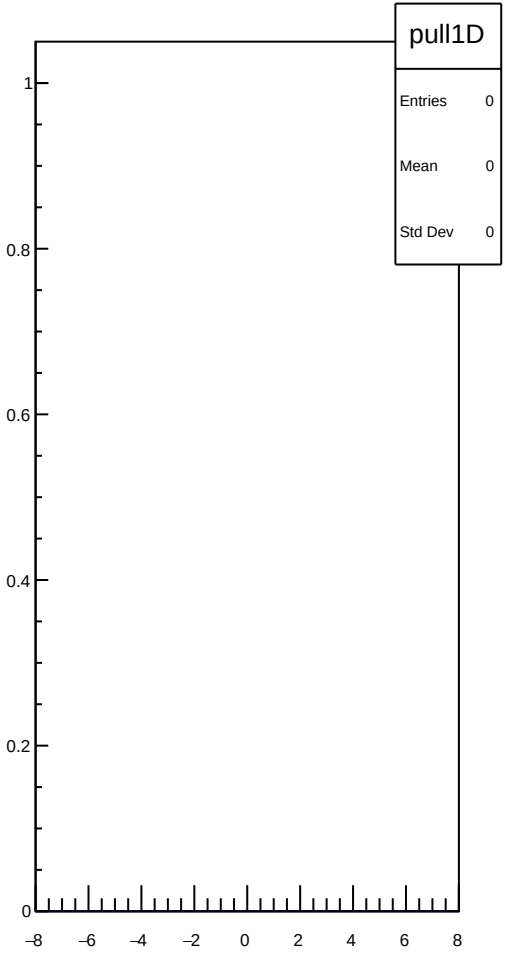
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
0
–8
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–4
–2
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6
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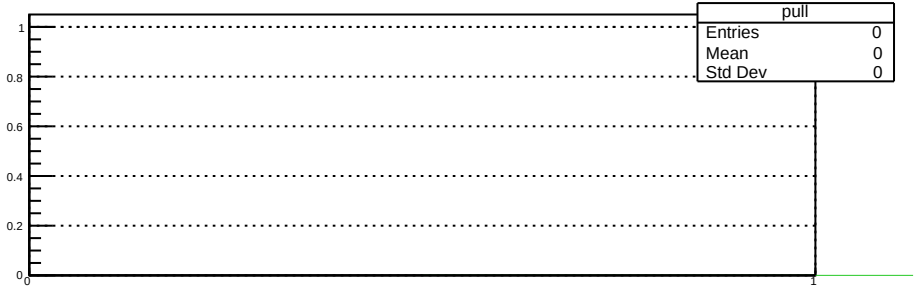
pull
Entries 0
Mean 0
Std Dev 0
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0.6
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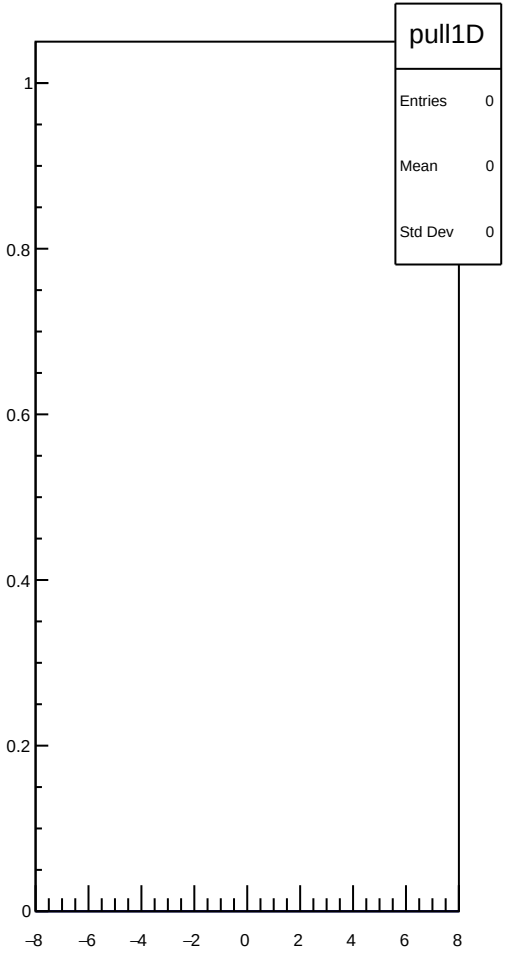
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
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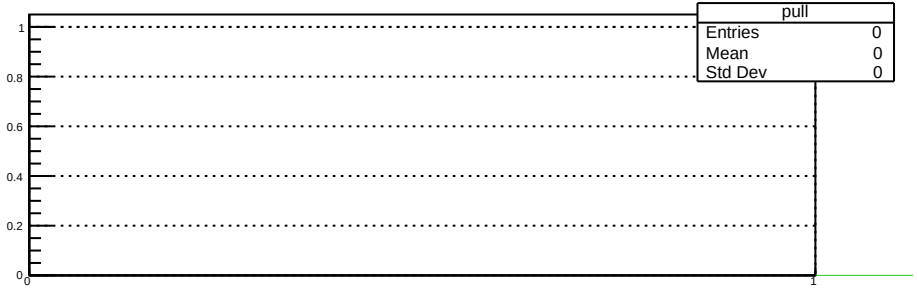
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Entries 0
Mean 0
Std Dev 0
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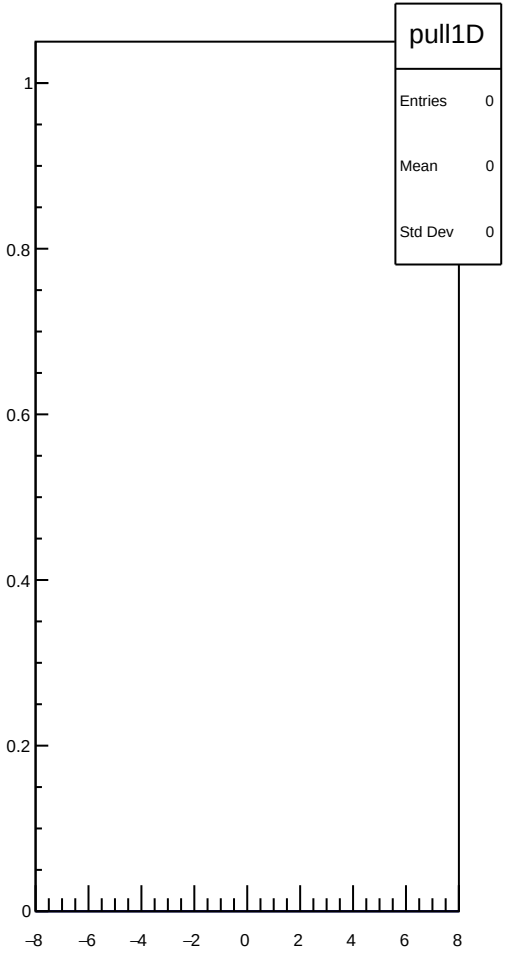
pull1D
Entries 0
Mean 0
Std Dev 0
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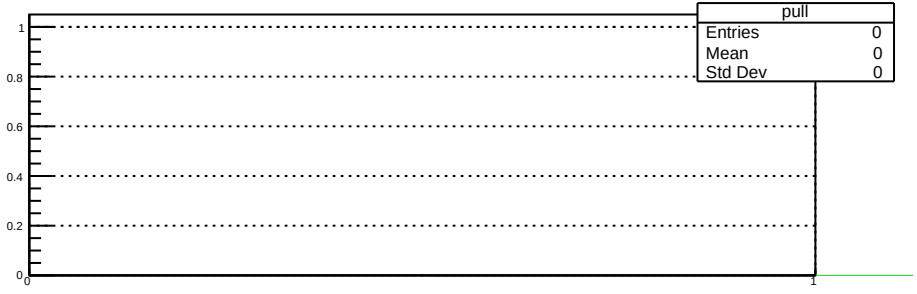
pull
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Mean 0
Std Dev 0
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0.6
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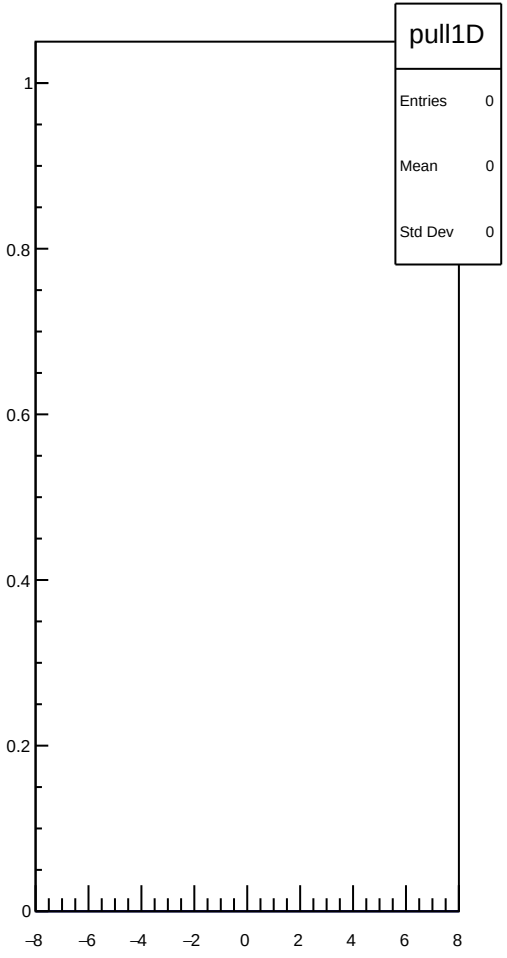
pull1D
Entries 0
Mean 0
Std Dev 0
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0.6
0.4
0.2
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6
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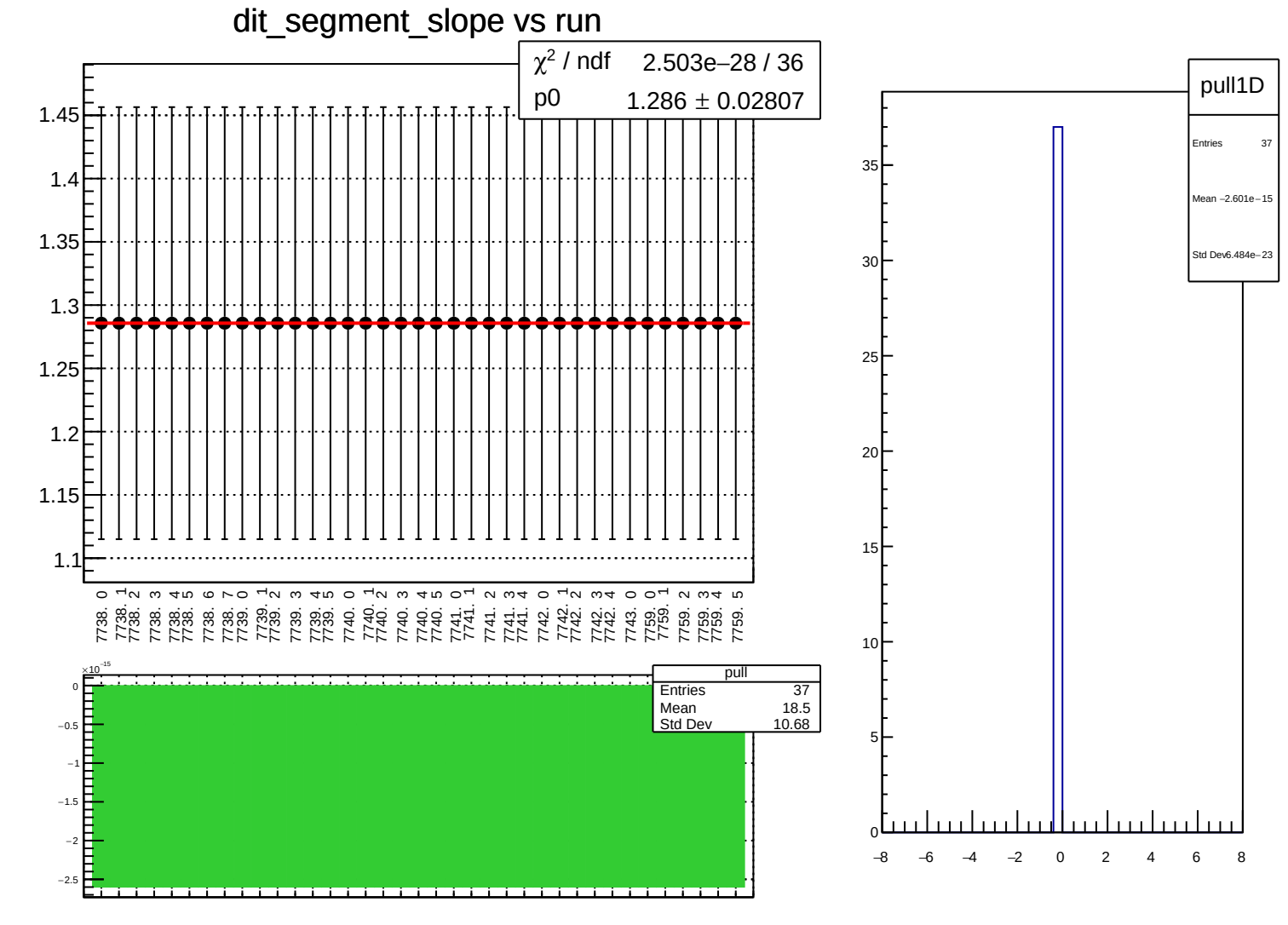
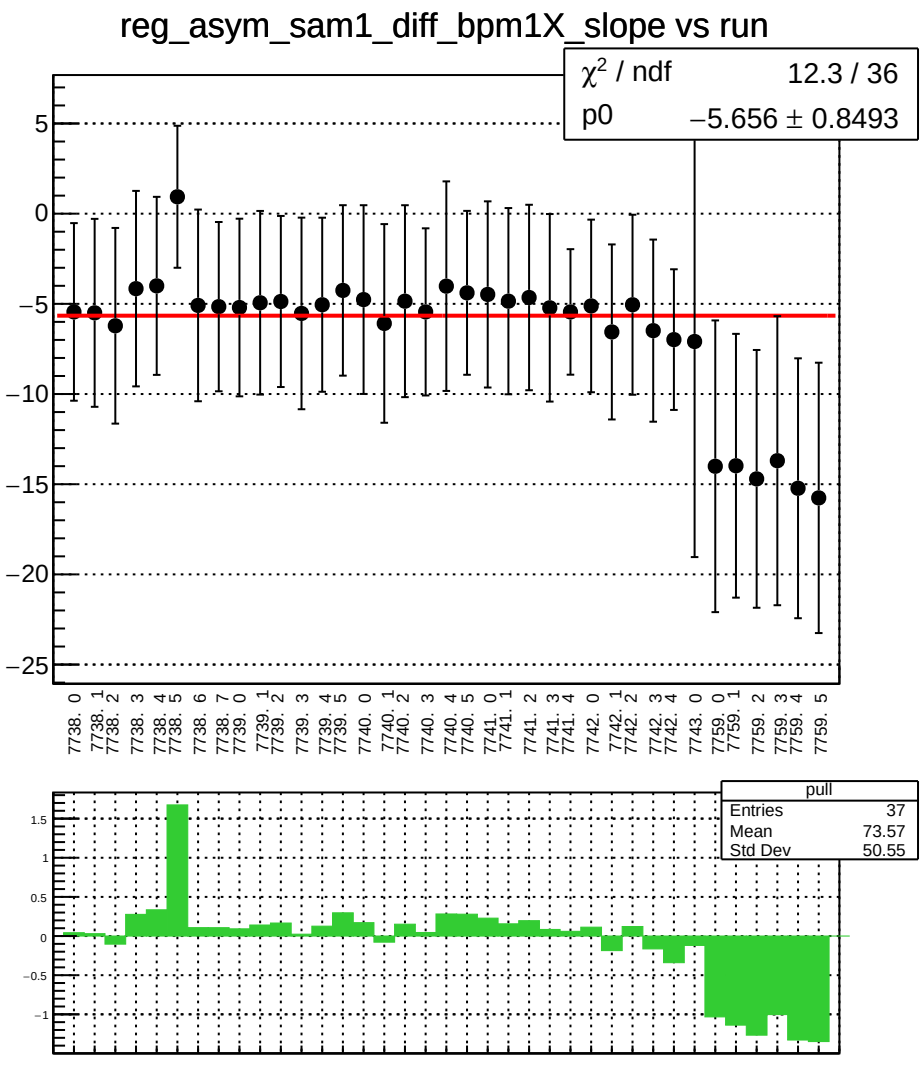
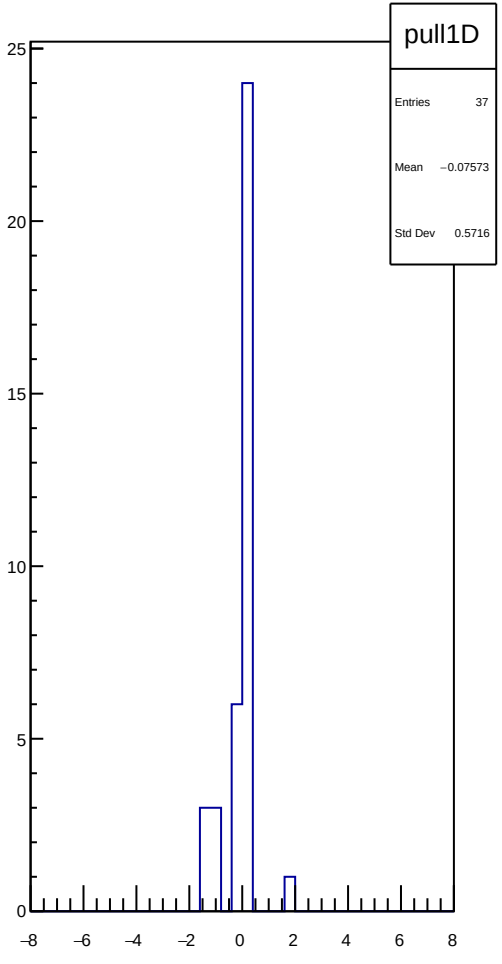
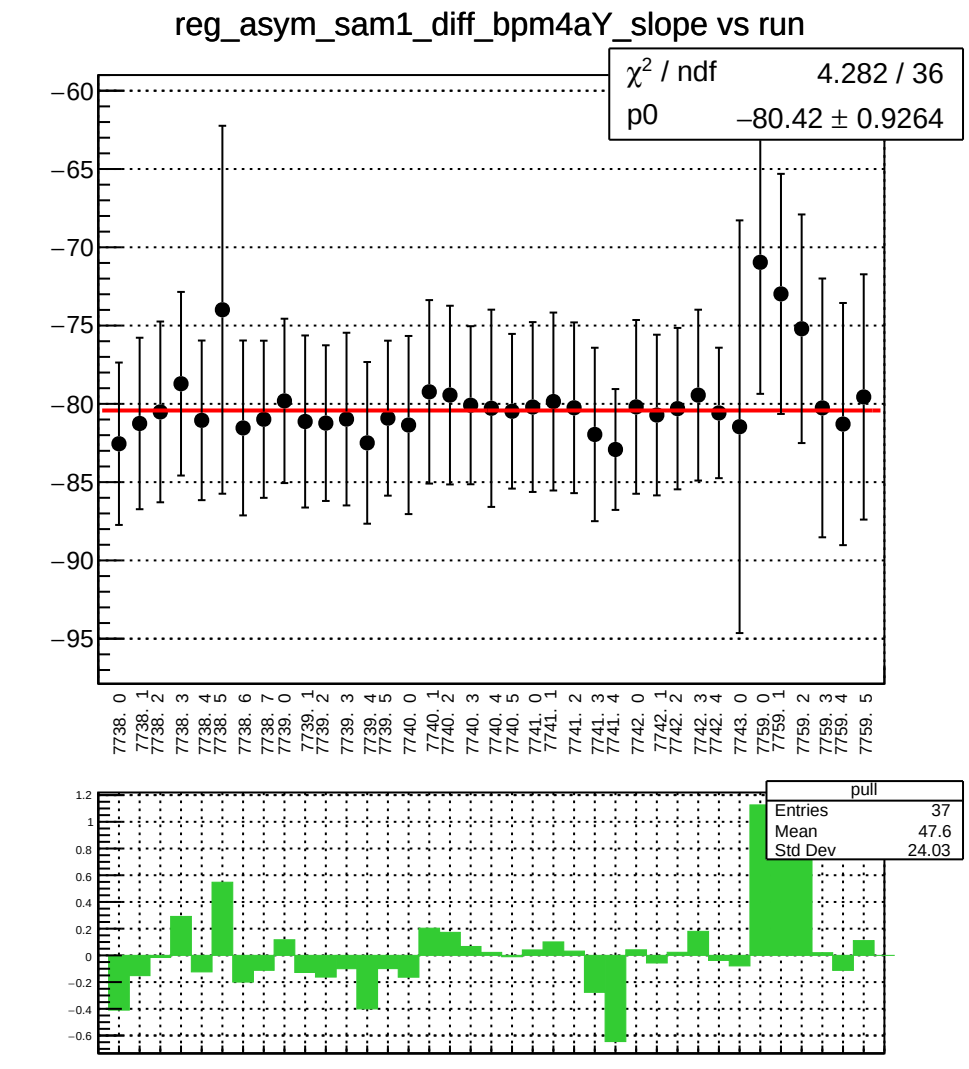
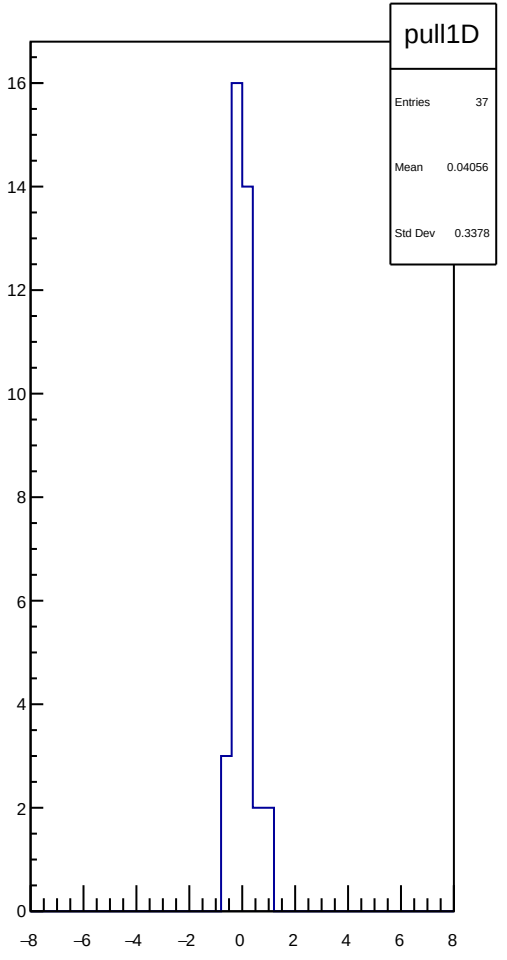
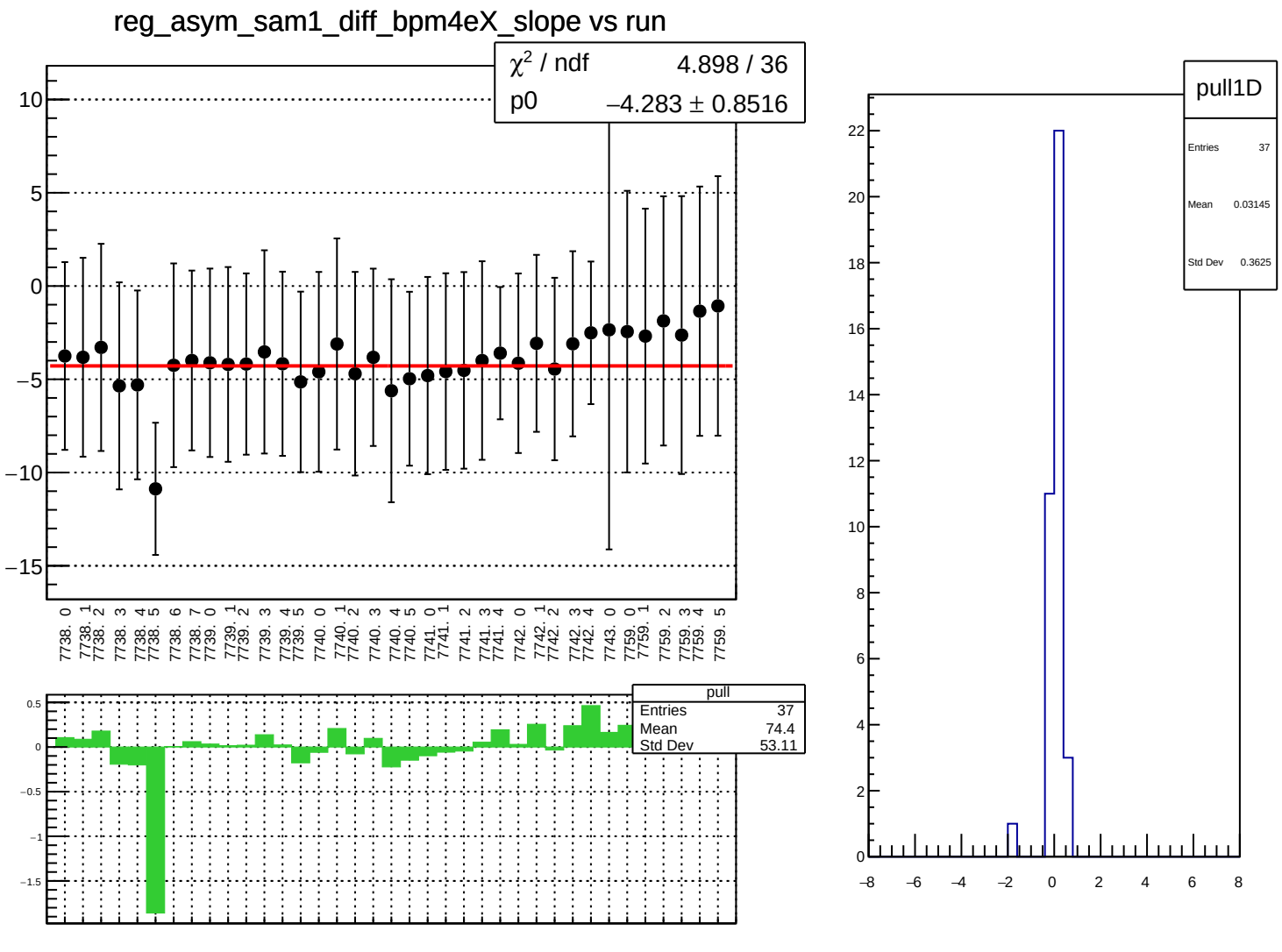

dit_segment_slope vs run
χ² / ndf 2.503e−28 / 36
p0 1.286 ± 0.02807
1.45
1.4
1.35
1.3
1.25
1.2
1.15
1.1
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
pull
Entries 37
Mean 18.5
Std Dev 10.68
pull1D
Entries 37
Mean −2.601e−15
Std Dev6.484e−23
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

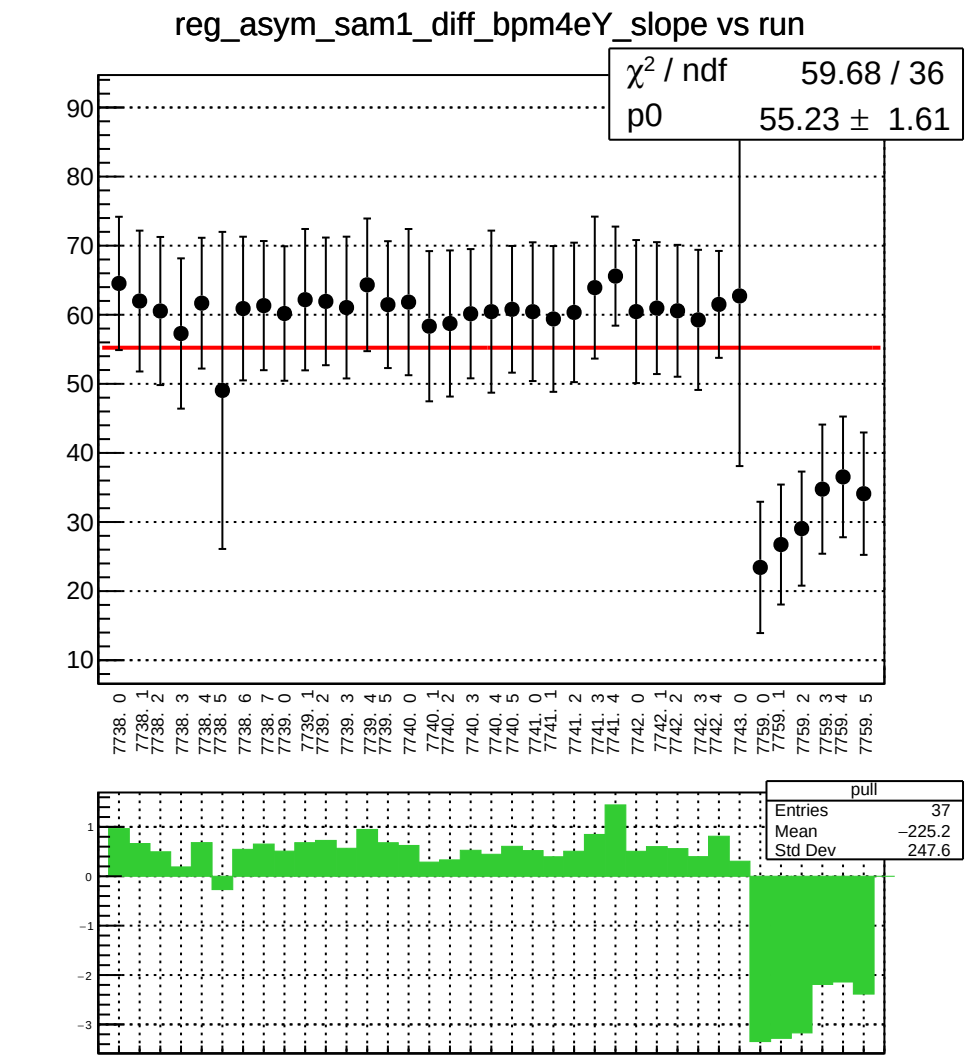

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 12.3 / 36
p0 −5.656 ± 0.8493
pull
Entries 37
Mean 73.57
Std Dev 50.55

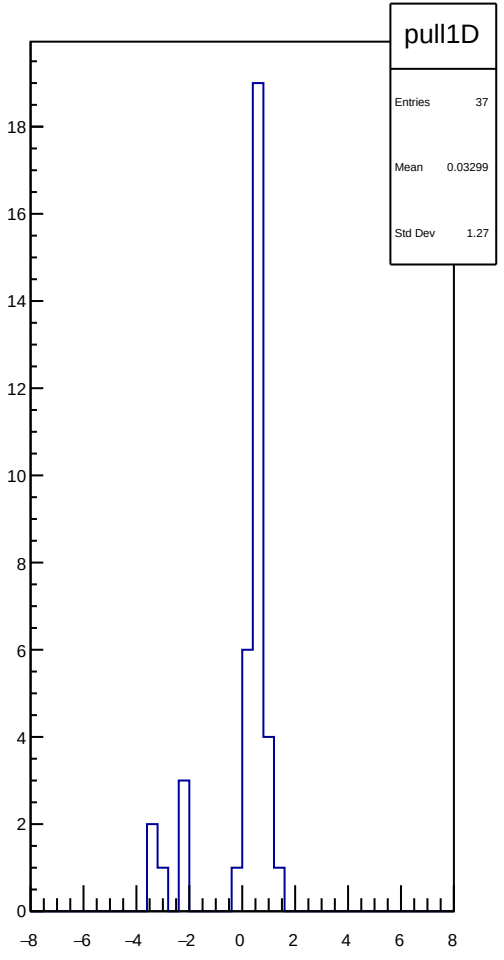

pull1D
Entries 37
Mean −0.07573
Std Dev 0.5716

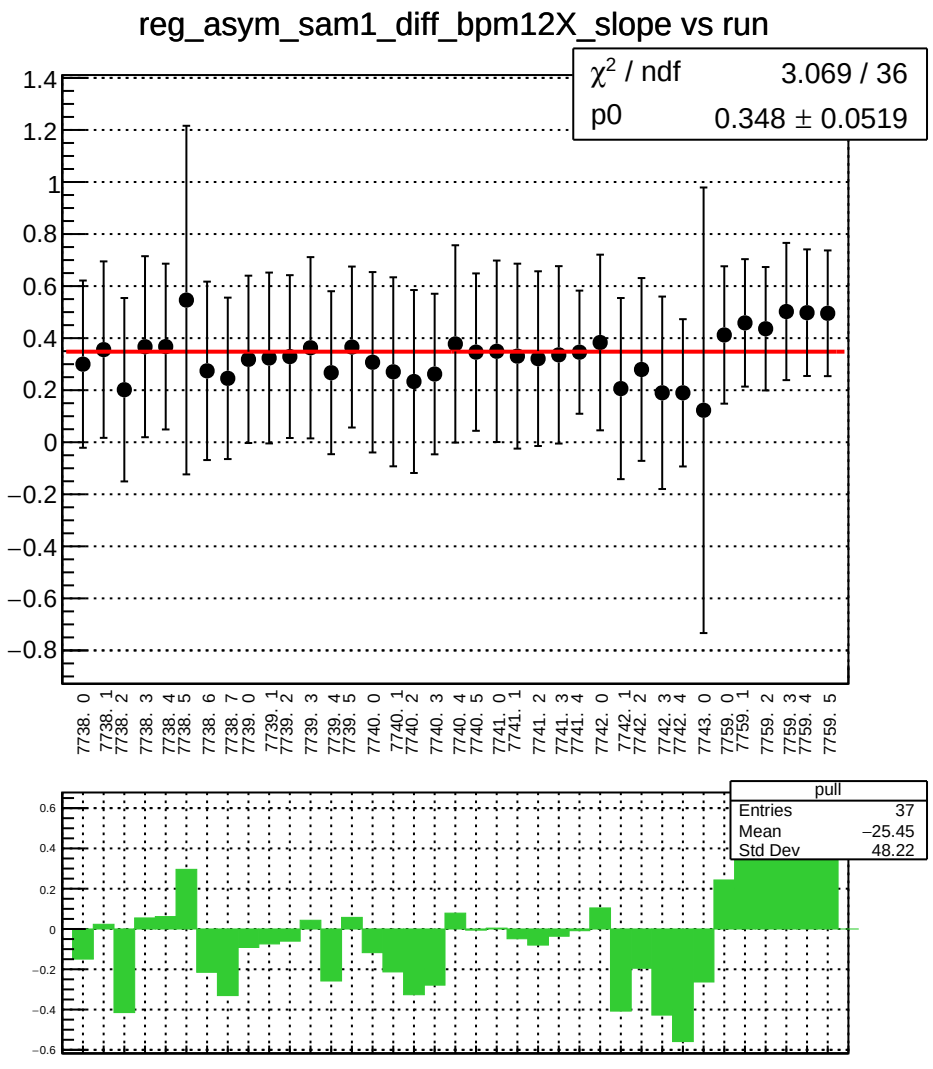

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 4.282 / 36
p0 −80.42 ± 0.9264
pull
Entries 37
Mean 47.6
Std Dev 24.03

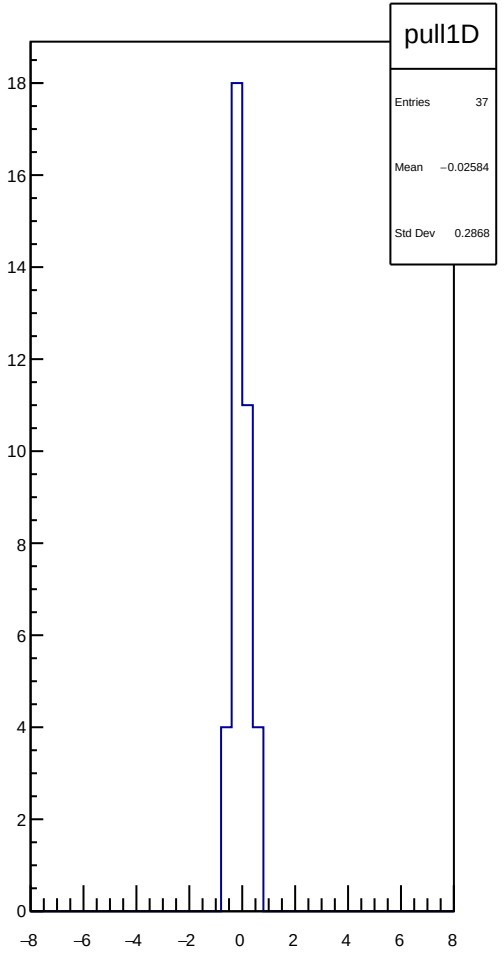

pull1D
Entries 37
Mean 0.04056
Std Dev 0.3378

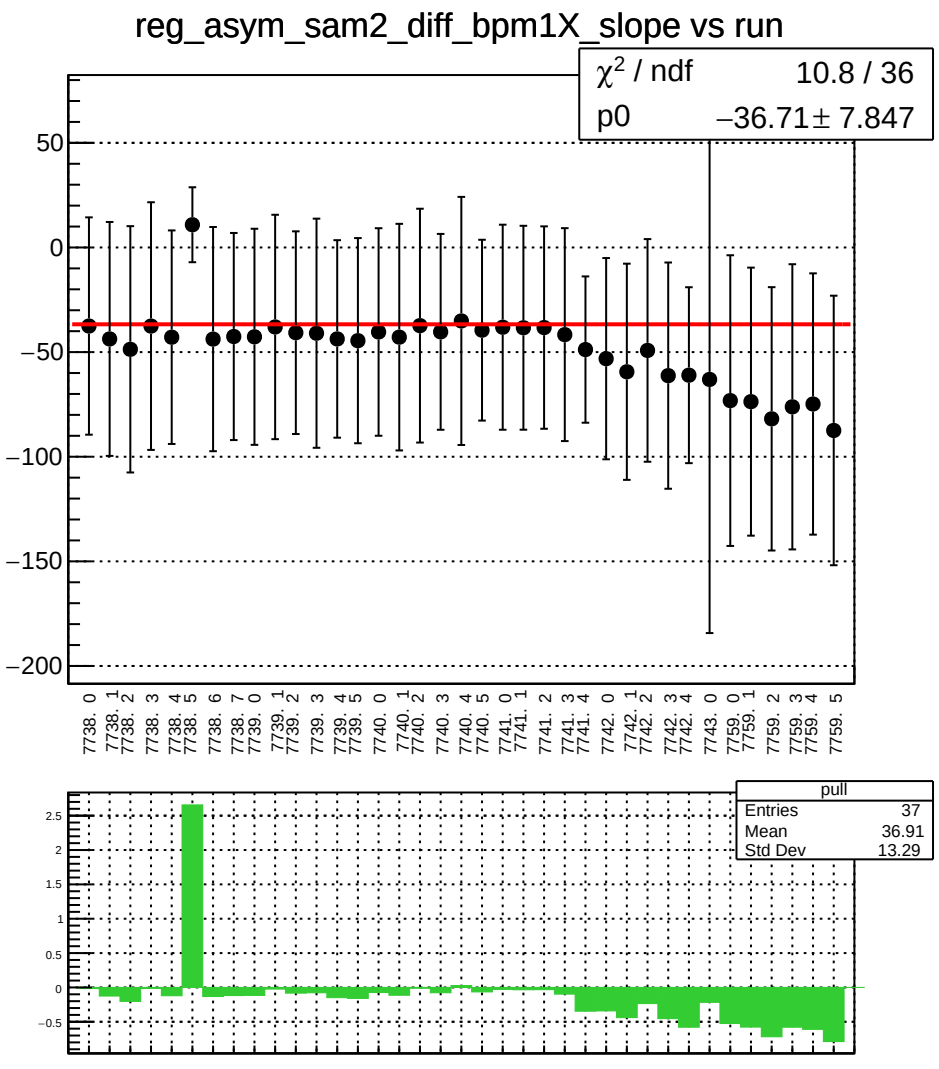

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 4.898 / 36
p0 −4.283 ± 0.8516
pull
Entries 37
Mean 74.4
Std Dev 53.11
pull1D
Entries 37
Mean 0.03145
Std Dev 0.3625

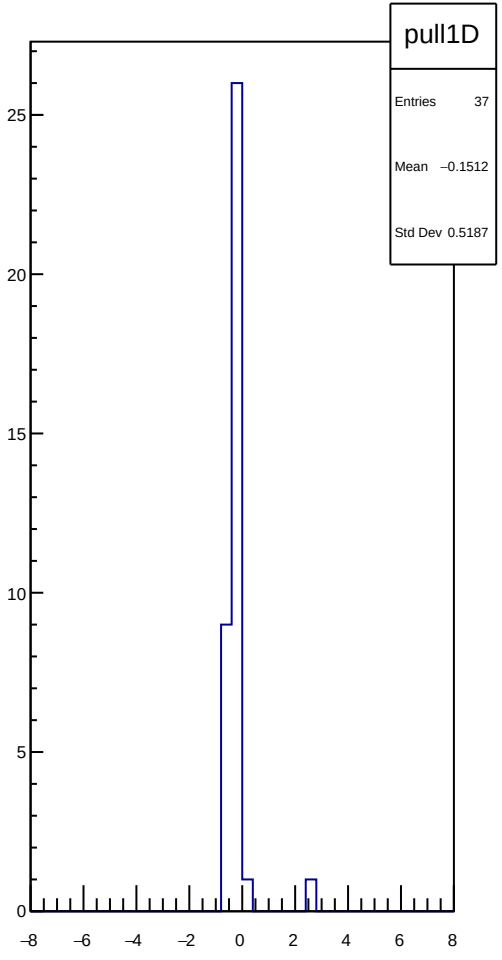

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 59.68 / 36
p0 55.23 ± 1.61
pull
Entries 37
Mean −225.2
Std Dev 247.6

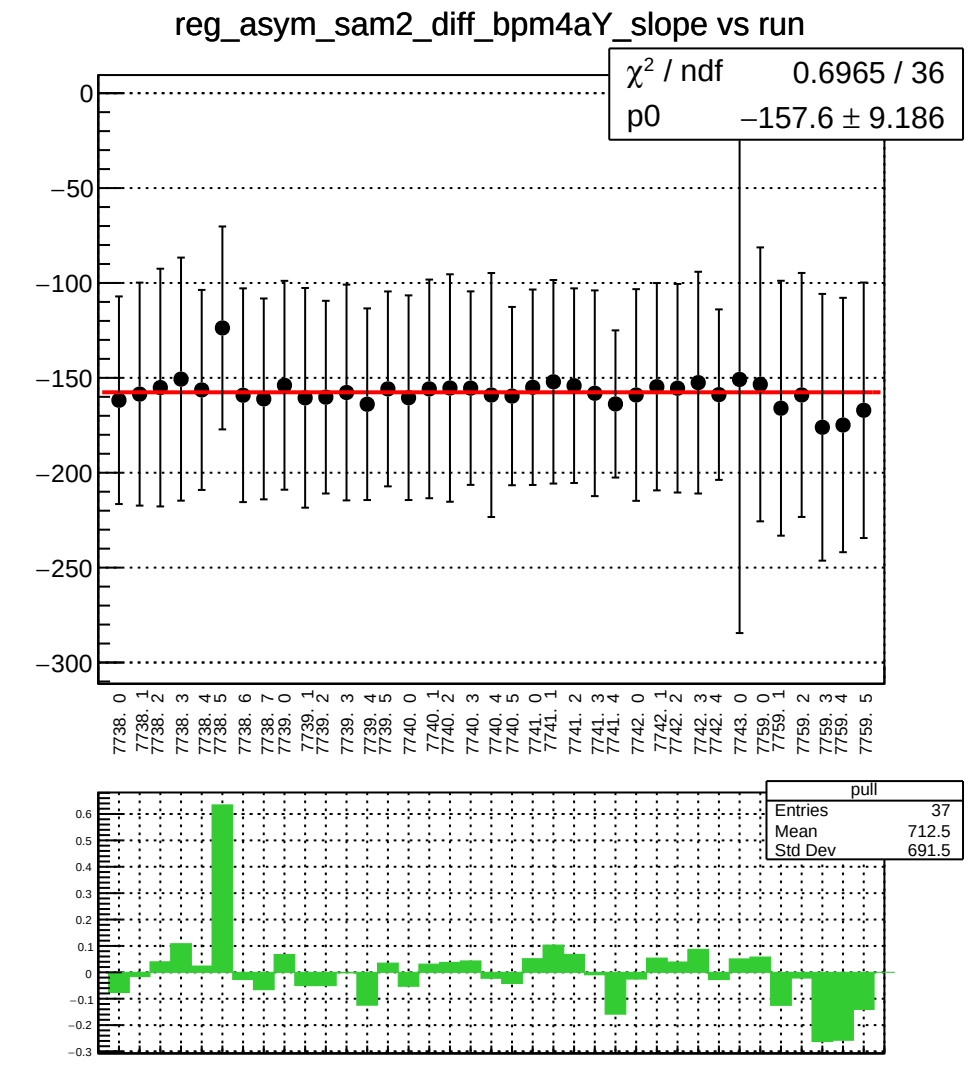

pull1D
Entries 37
Mean 0.03299
Std Dev 1.27

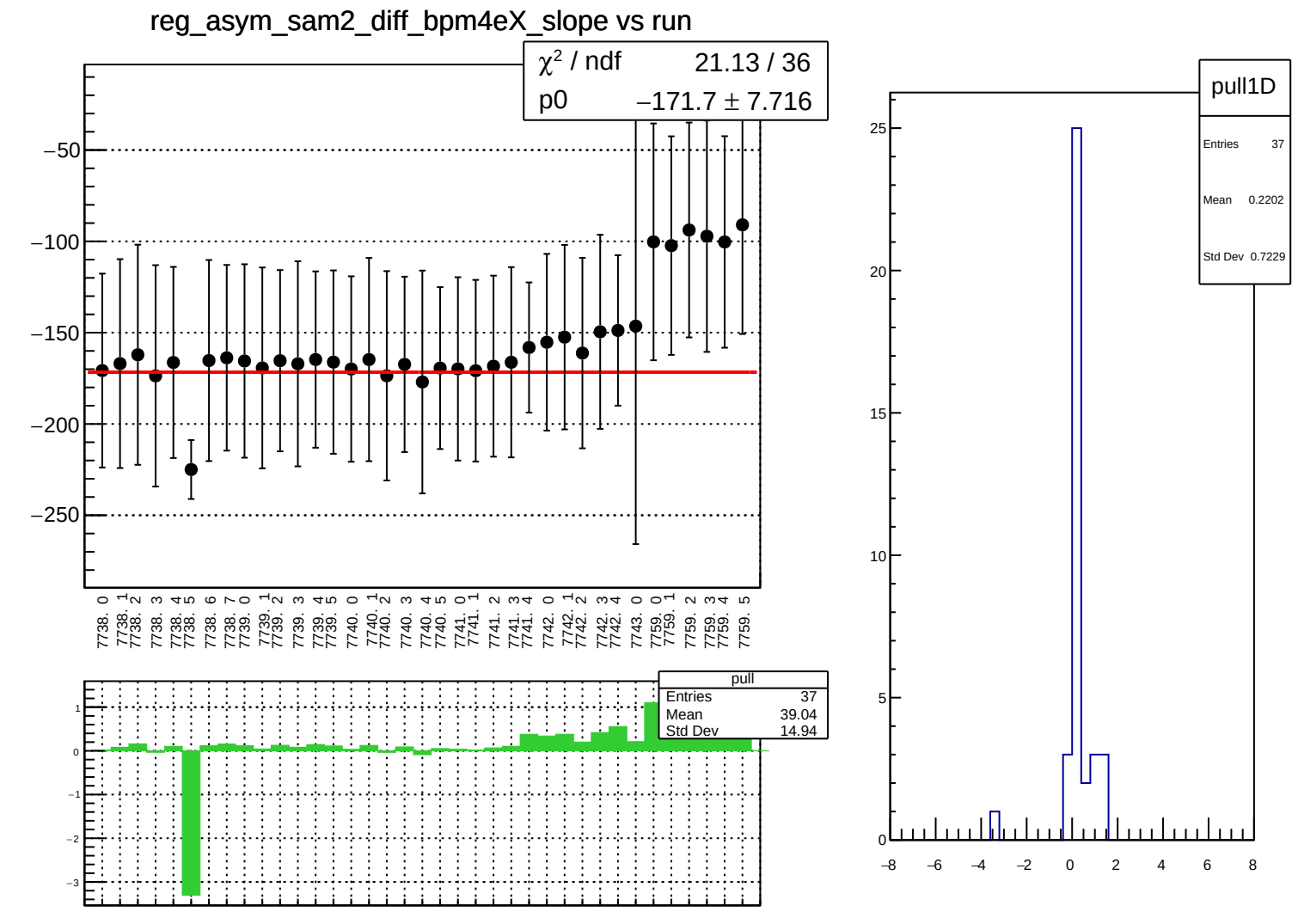

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 3.069 / 36
p0 0.348 ± 0.0519
pull
Entries 37
Mean −25.45
Std Dev 48.22

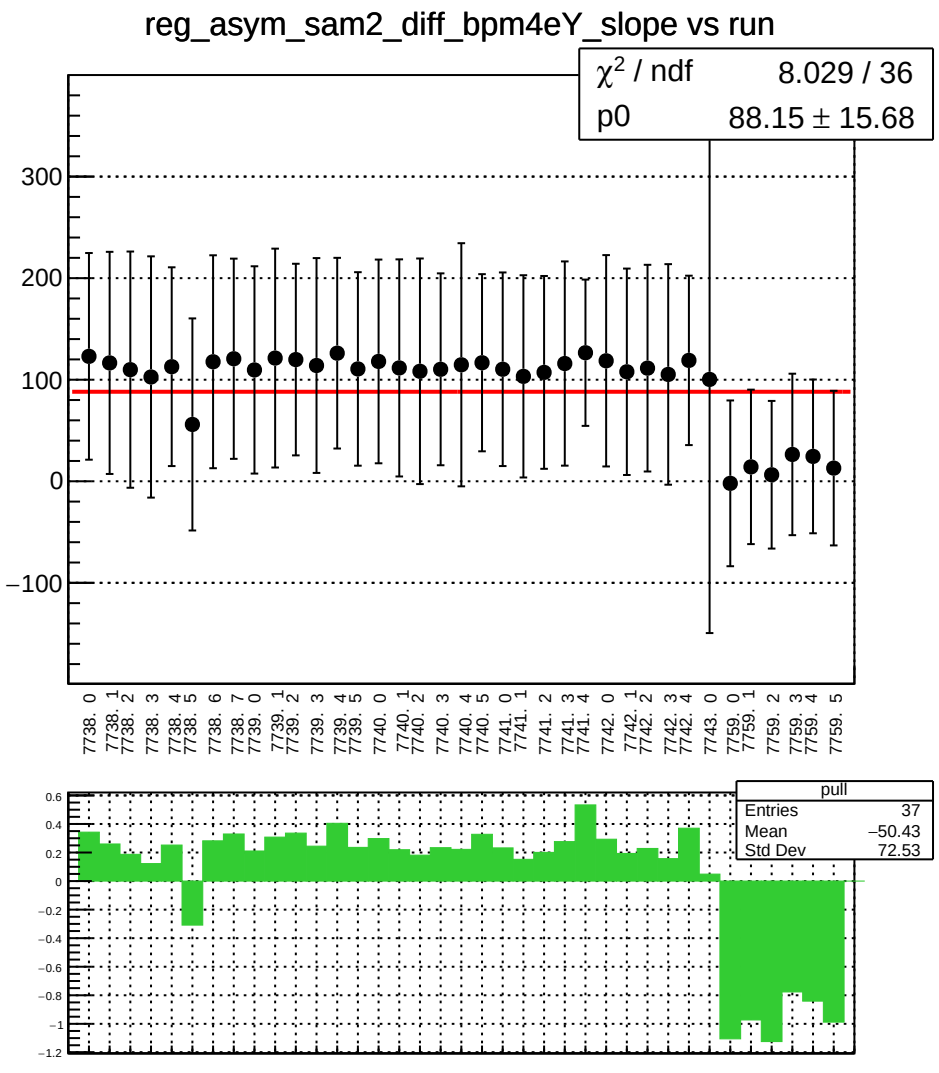

pull1D
Entries 37
Mean −0.02584
Std Dev 0.2868

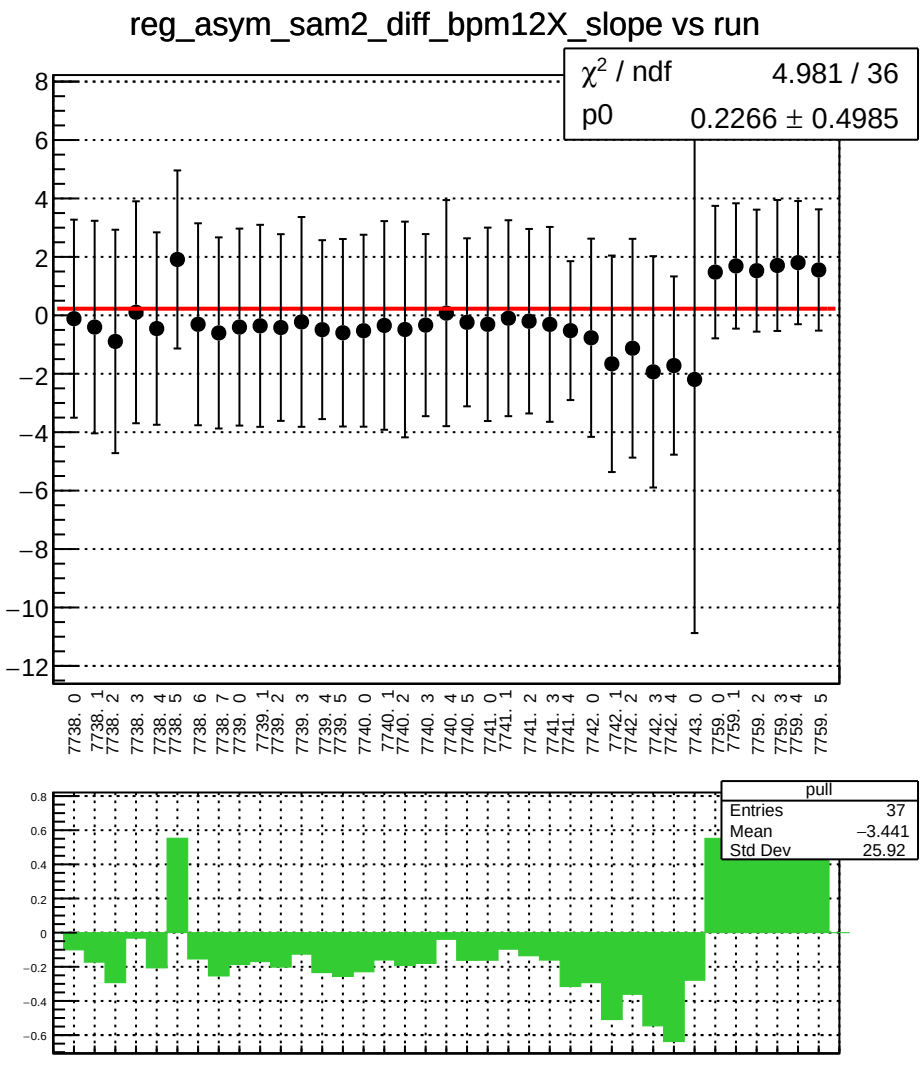

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 10.8 / 36
p0 −36.71± 7.847
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.91
Std Dev 13.29
2.5
2
1.5
1
0.5
0
−0.5

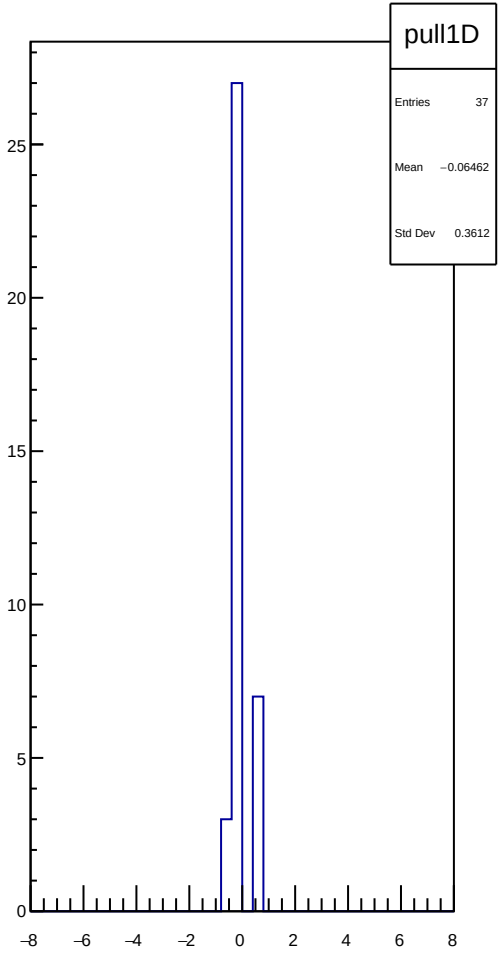

pull1D
Entries 37
Mean −0.1512
Std Dev 0.5187
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

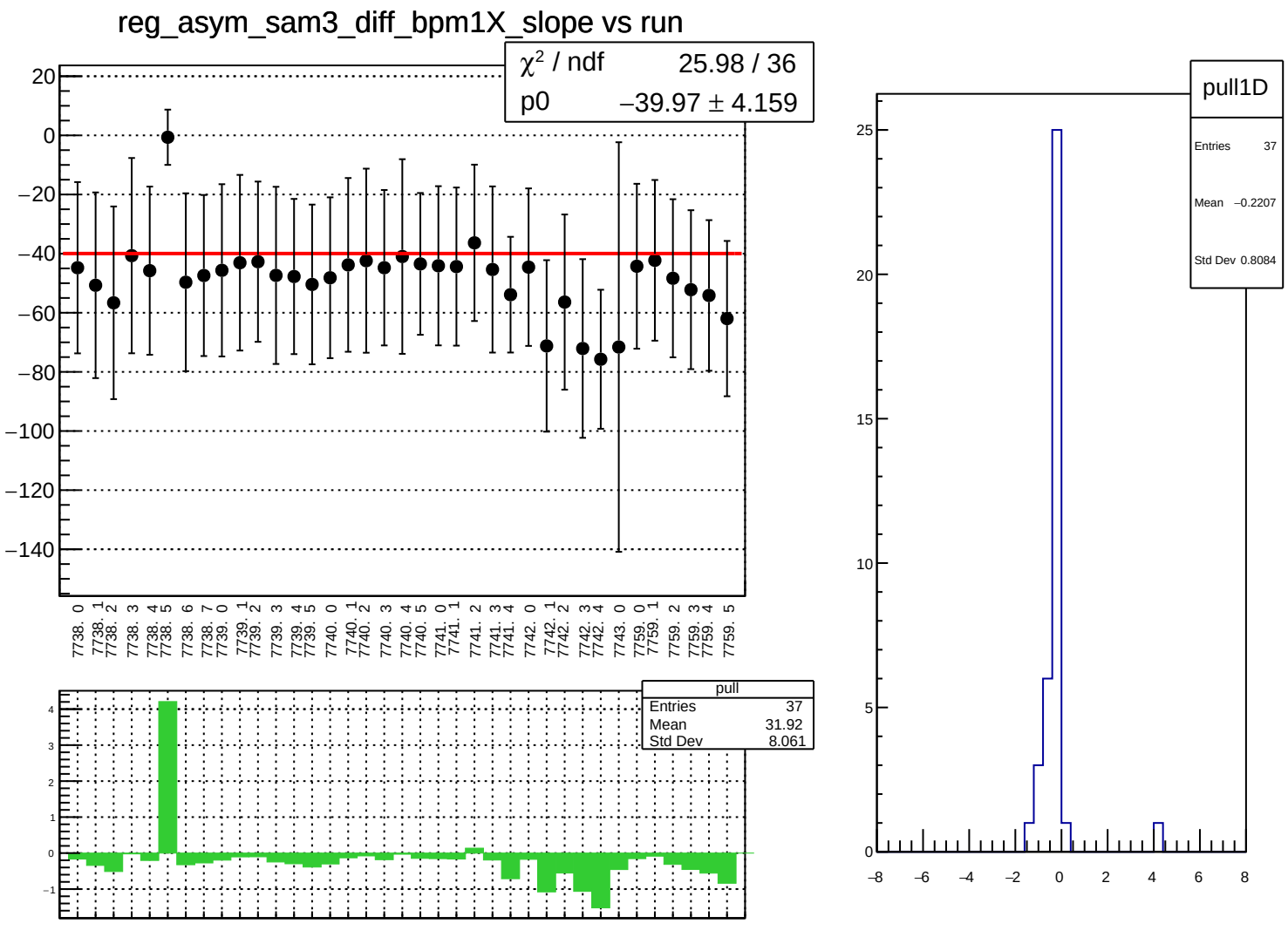

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 0.6965 / 36
p0 −157.6 ± 9.186
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 712.5
Std Dev 691.5
0.6
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 37
Mean −0.0007151
Std Dev 0.1372
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

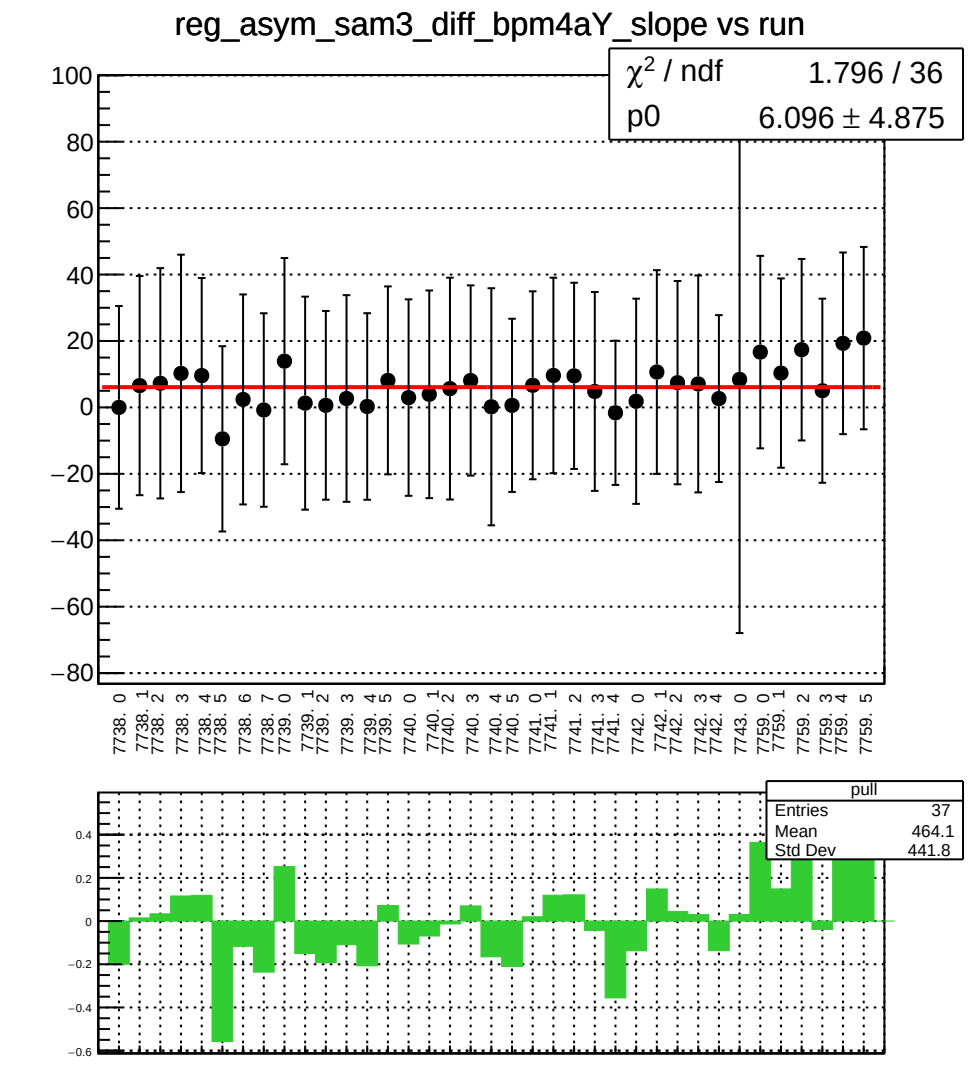

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 21.13 / 36
p0 −171.7 ± 7.716
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.04
Std Dev 14.94
1
0
−1
−2
−3
pull1D
Entries 37
Mean 0.2202
Std Dev 0.7229
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

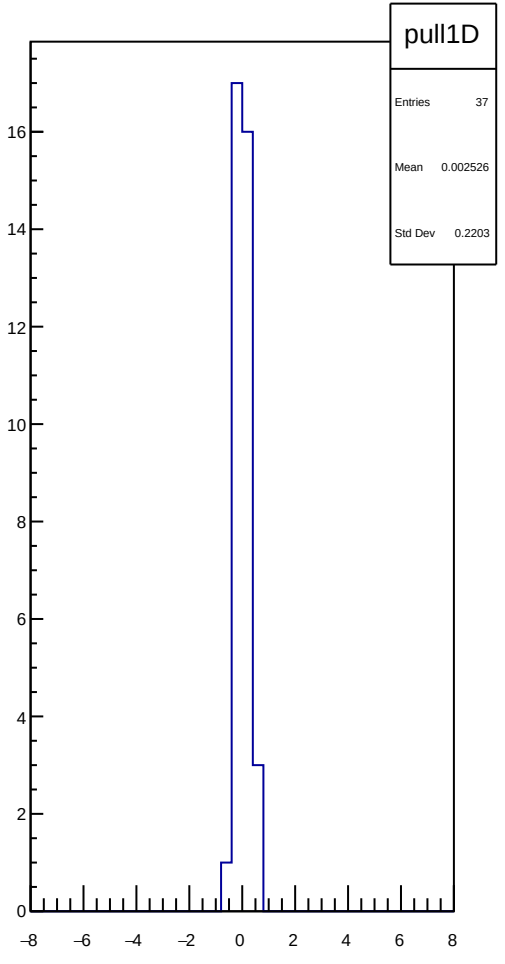

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 8.029 / 36
p0 88.15 ± 15.68
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −50.43
Std Dev 72.53
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 37
Mean 0.04239
Std Dev 0.4639
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

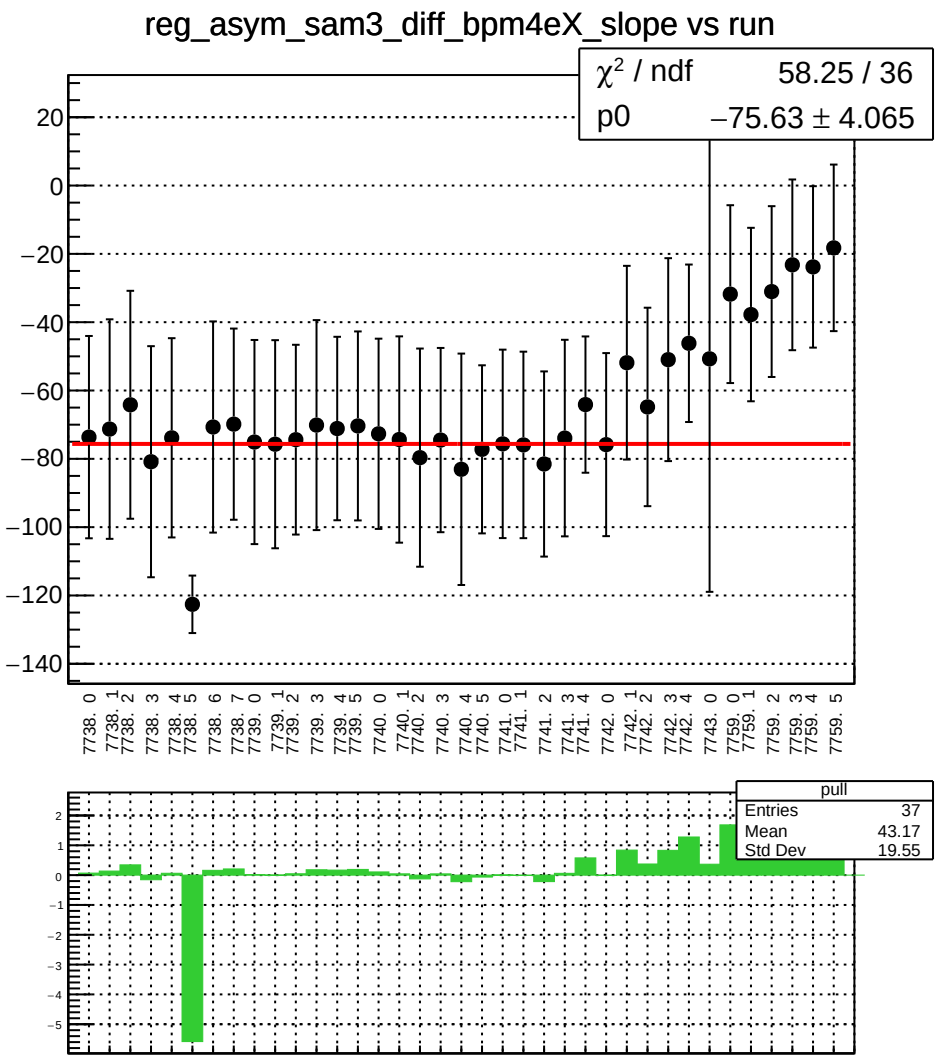

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.981 / 36
p0 0.2266 ± 0.4985
pull
Entries 37
Mean −3.441
Std Dev 25.92

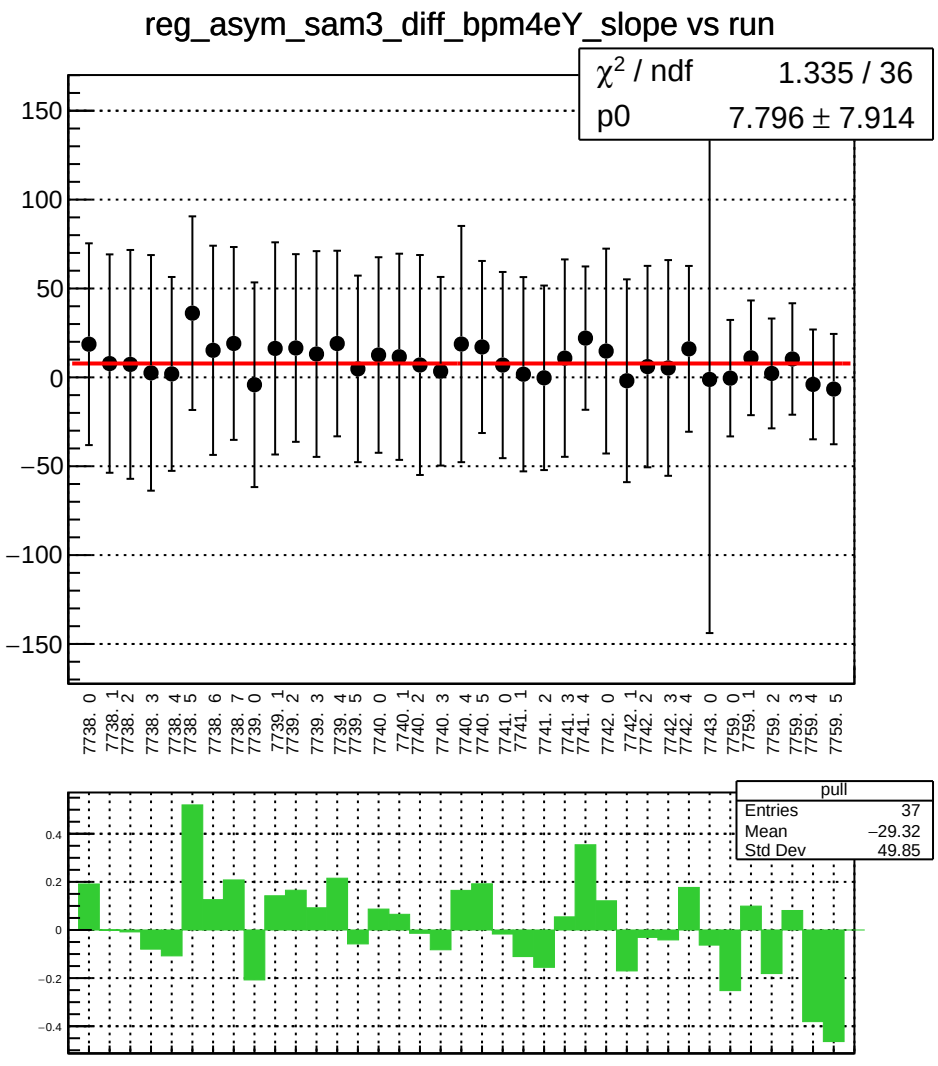

pull1D
Entries 37
Mean −0.06462
Std Dev 0.3612

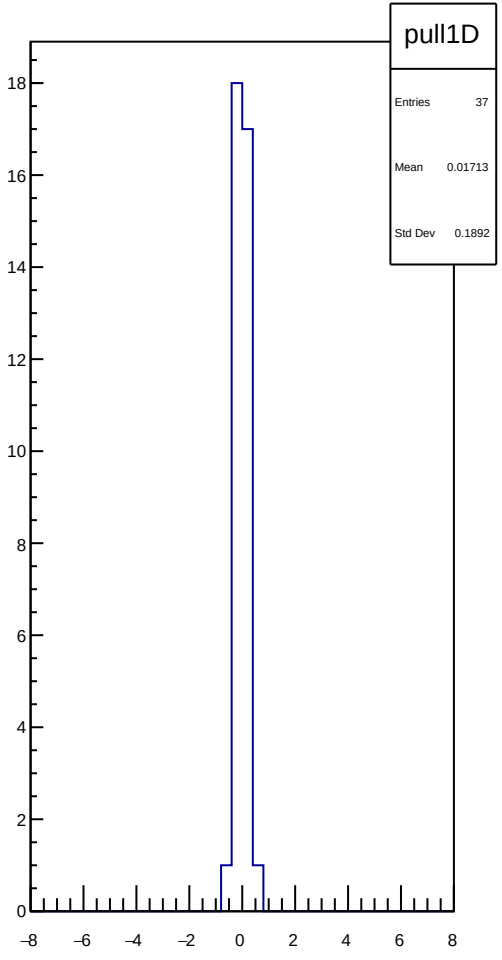

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 25.98 / 36
p0 −39.97 ± 4.159
pull
Entries 37
Mean 31.92
Std Dev 8.061
pull1D
Entries 37
Mean −0.2207
Std Dev 0.8084

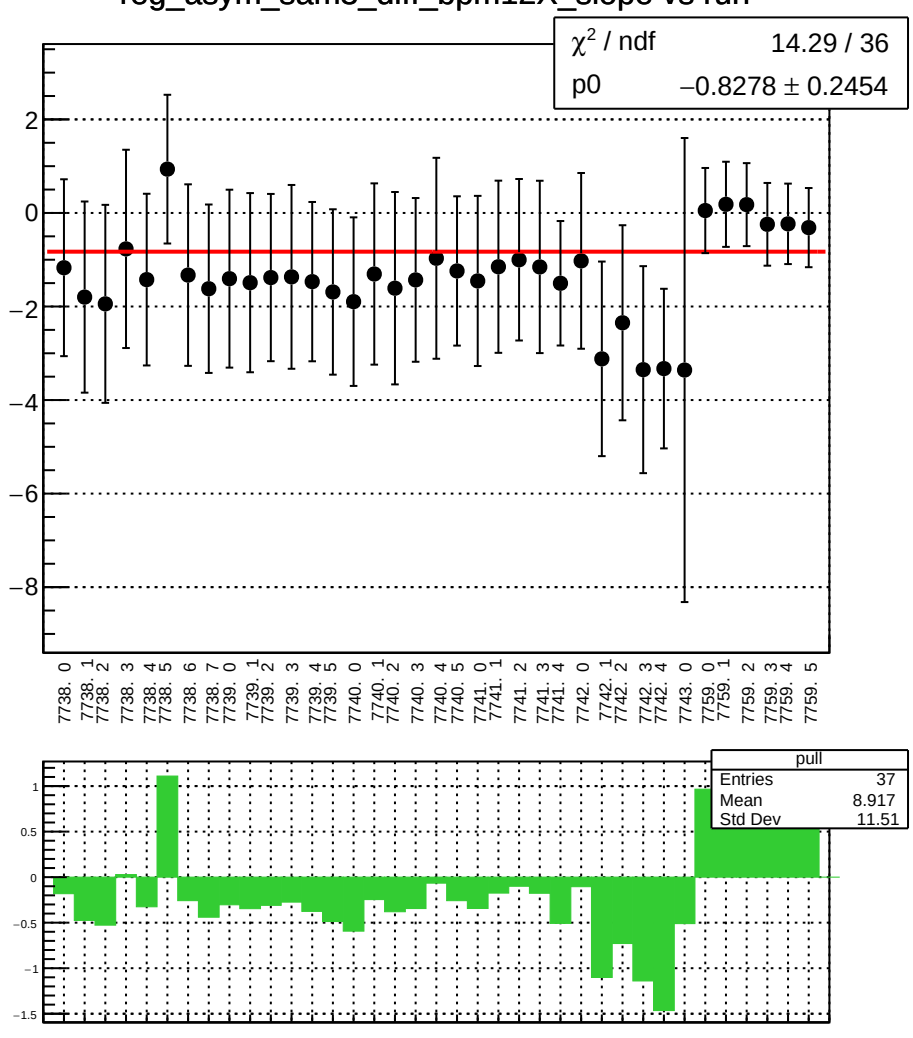

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.796 / 36
p0 6.096 ± 4.875
pull
Entries 37
Mean 464.1
Std Dev 441.8

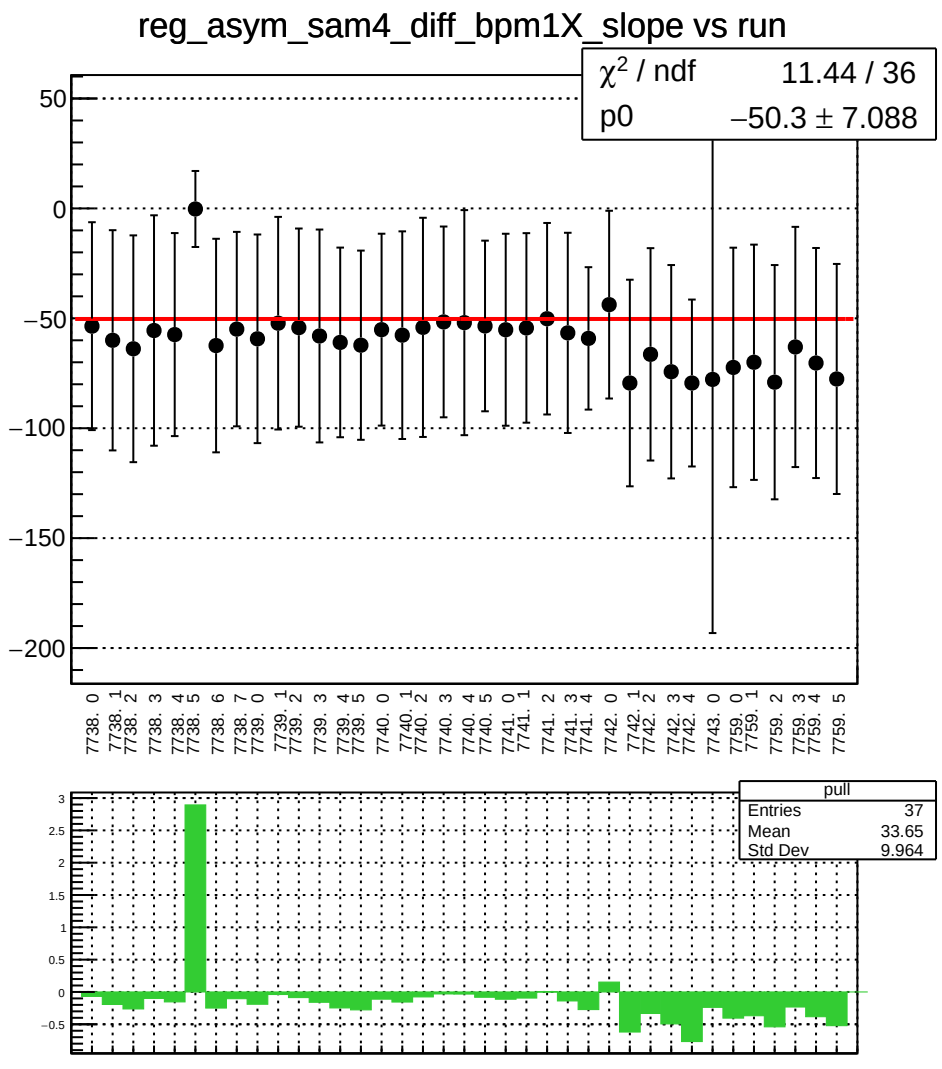

pull1D
Entries 37
Mean 0.002526
Std Dev 0.2203

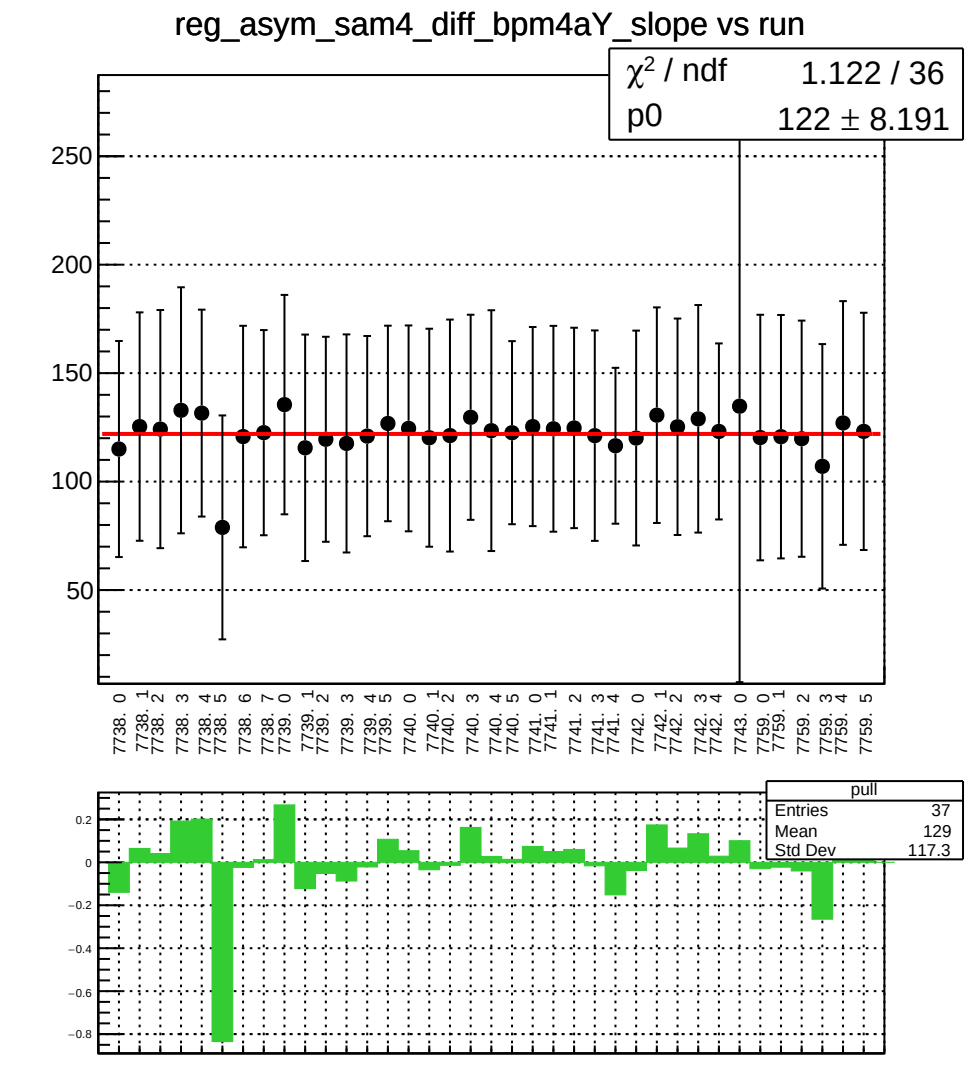

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 58.25 / 36
p0 −75.63 ± 4.065
20
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 43.17
Std Dev 19.55
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 37
Mean 0.3057
Std Dev 1.217
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

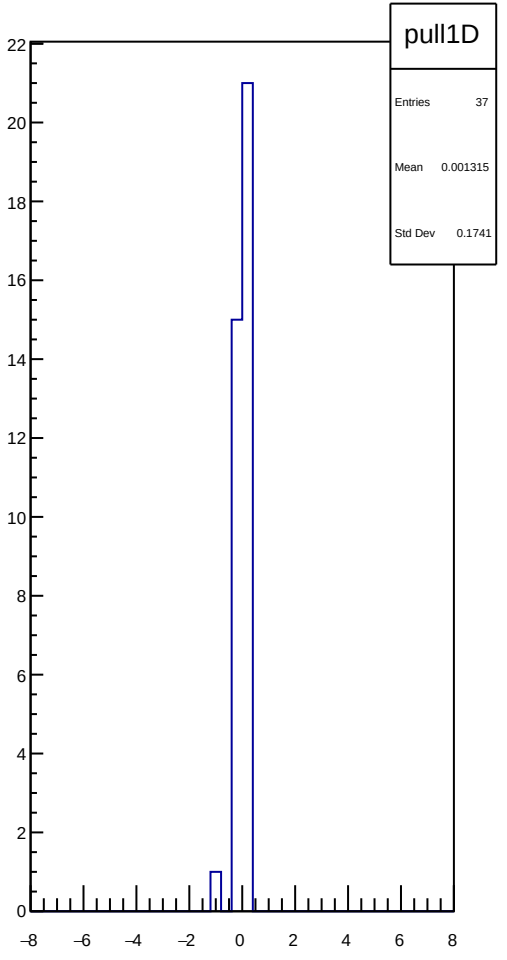

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.335 / 36
p0 7.796 ± 7.914
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.32
Std Dev 49.85
0.4
0.2
0
−0.2
−0.4

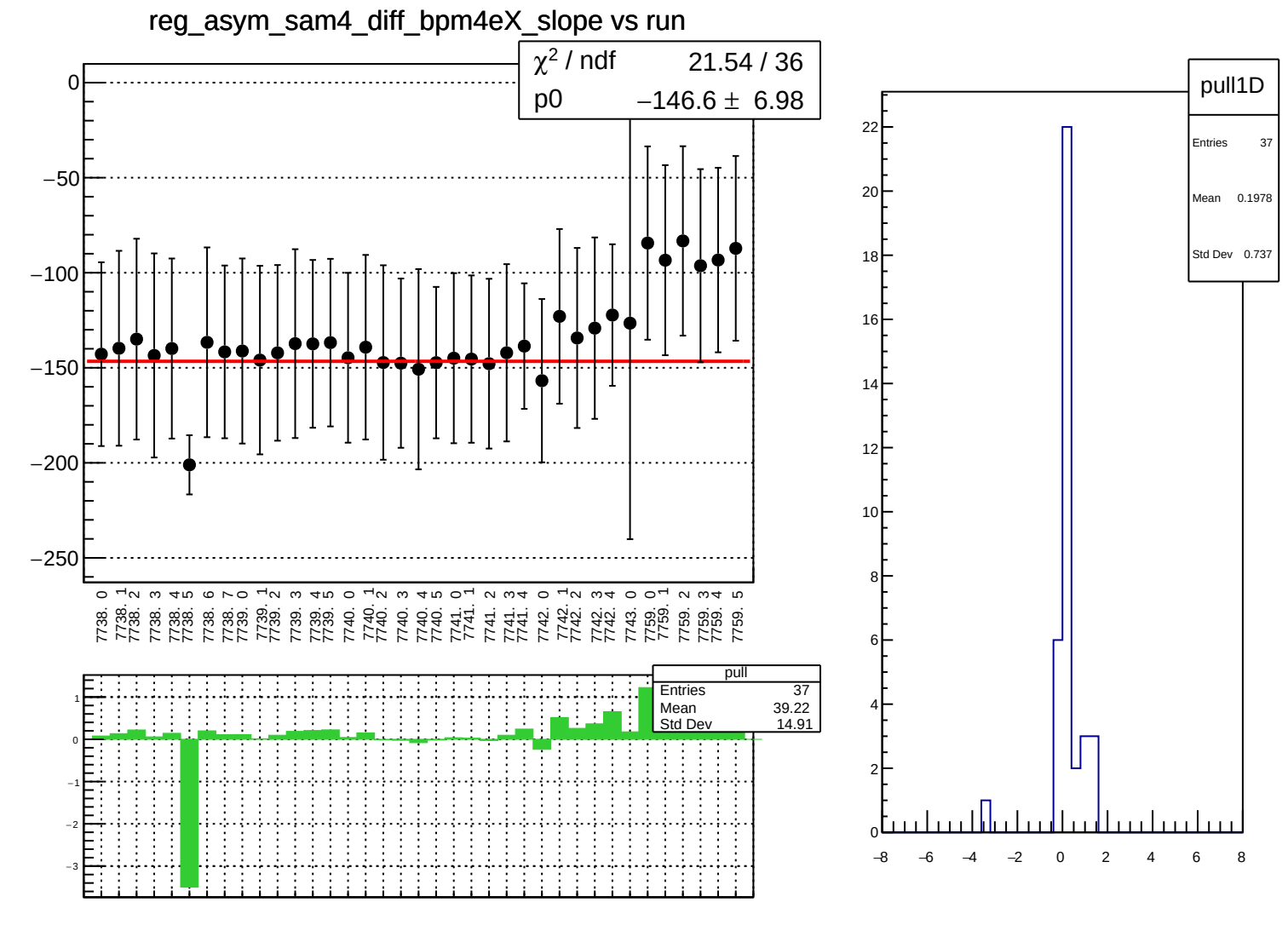

pull1D
Entries 37
Mean 0.01713
Std Dev 0.1892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

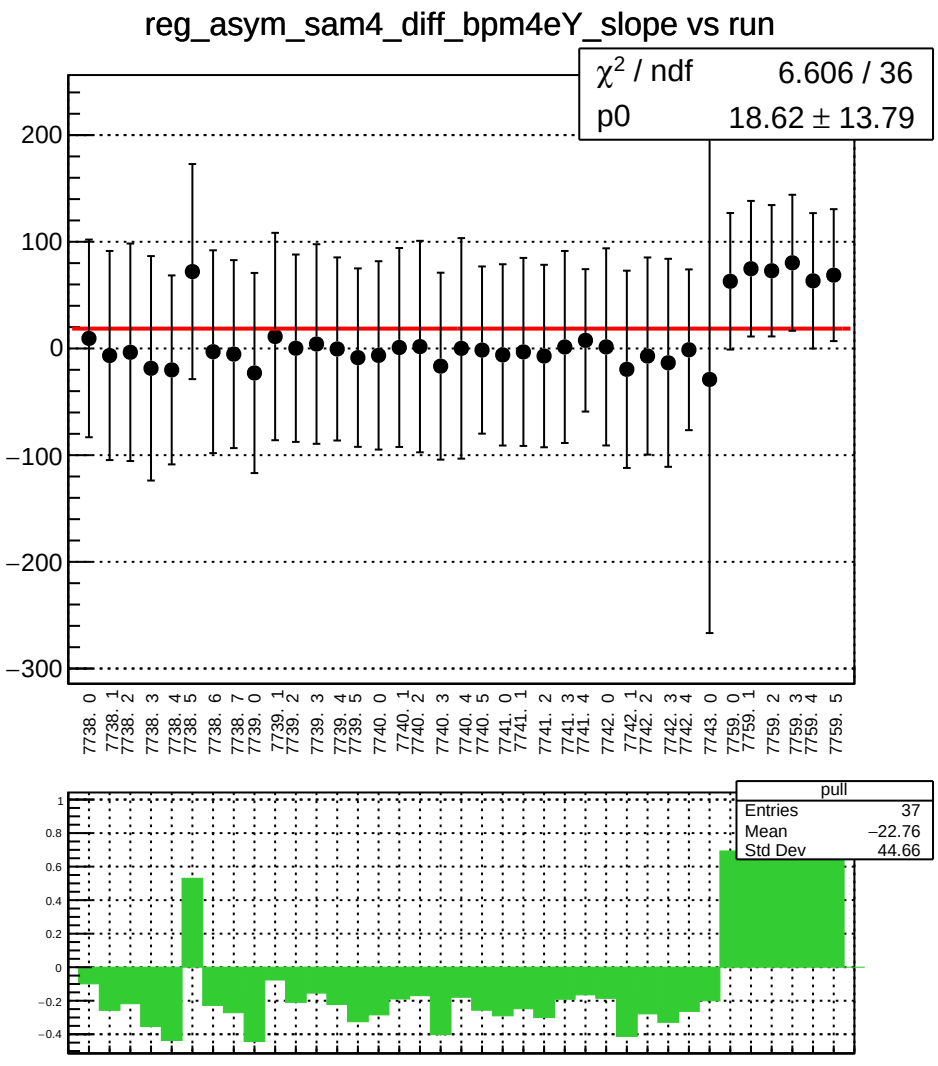

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 14.29 / 36
p0 −0.8278 ± 0.2454
pull
Entries 37
Mean 8.917
Std Dev 11.51
pull1D
Entries 37
Mean −0.1685
Std Dev 0.5983

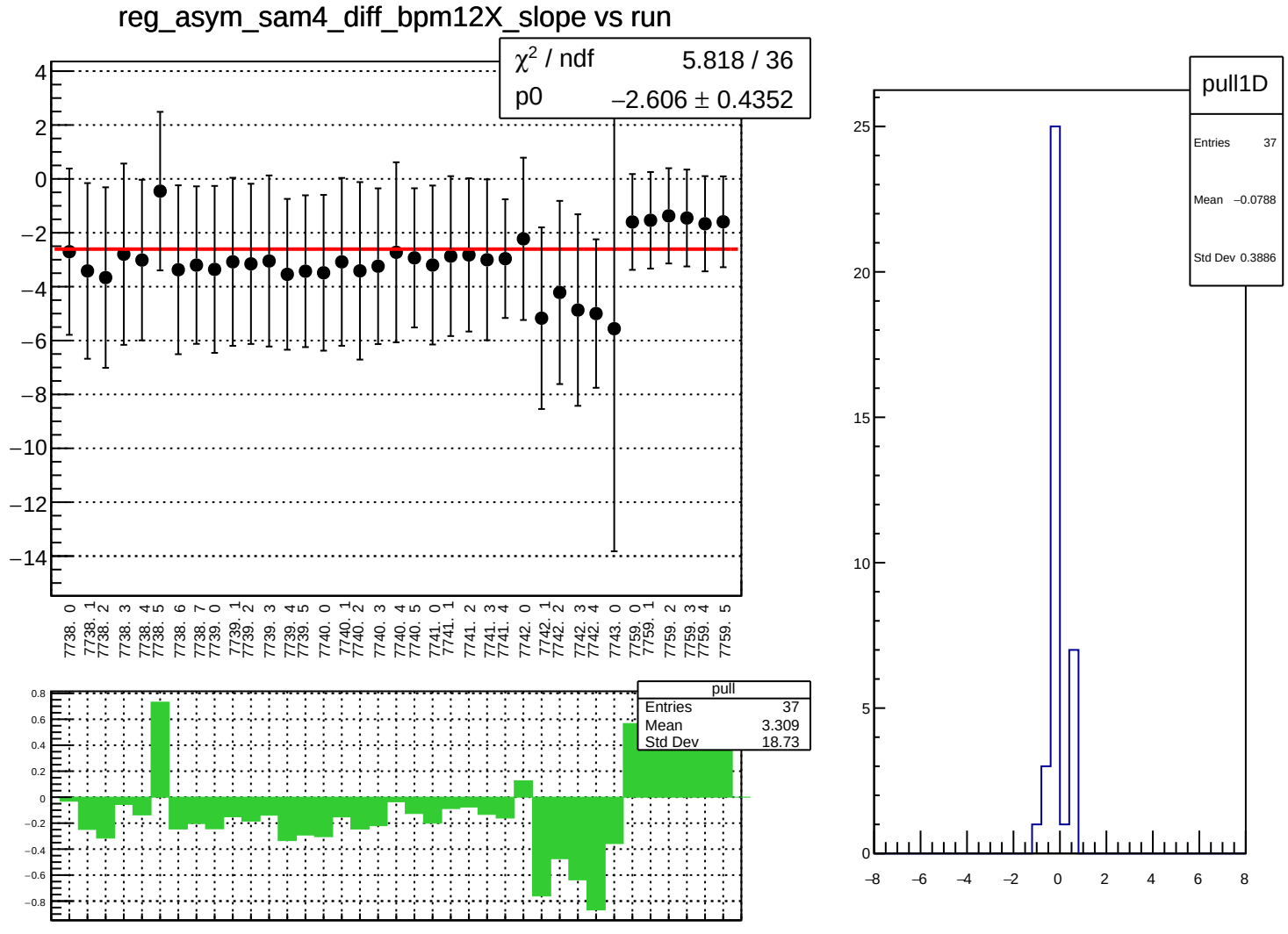

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 11.44 / 36
p0 −50.3 ± 7.088
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.65
Std Dev 9.964
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1377
Std Dev 0.5387
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

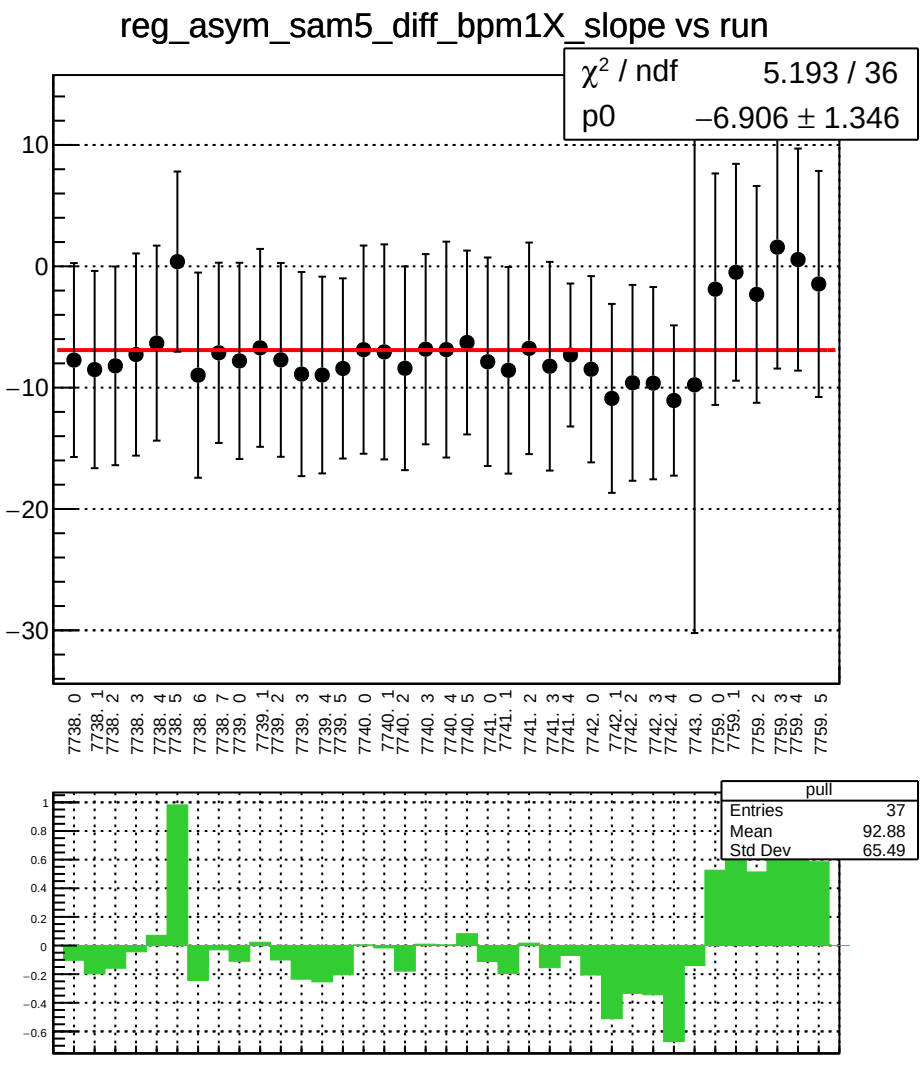

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.122 / 36
p0 122 ± 8.191
250
200
150
100
50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 129
Std Dev 117.3
0.2
0
−0.2
−0.4
−0.6
−0.8

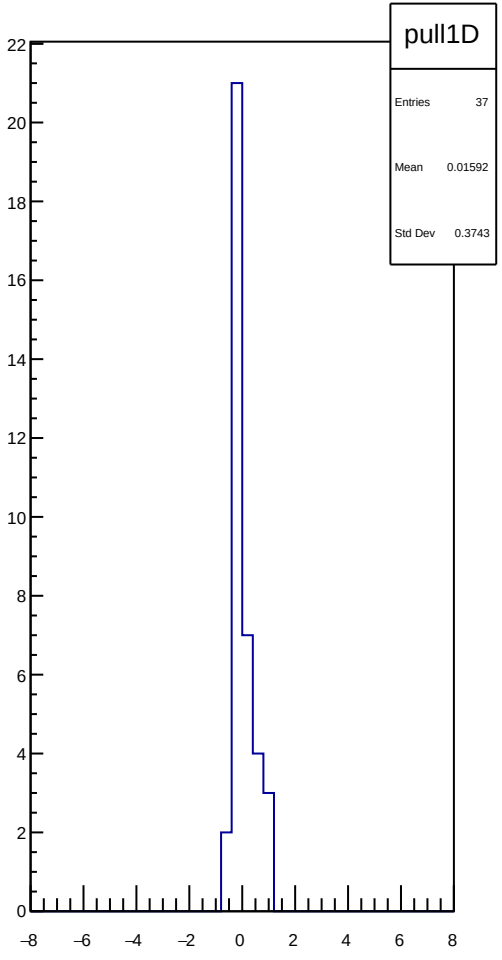

pull1D
Entries 37
Mean 0.001315
Std Dev 0.1741
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

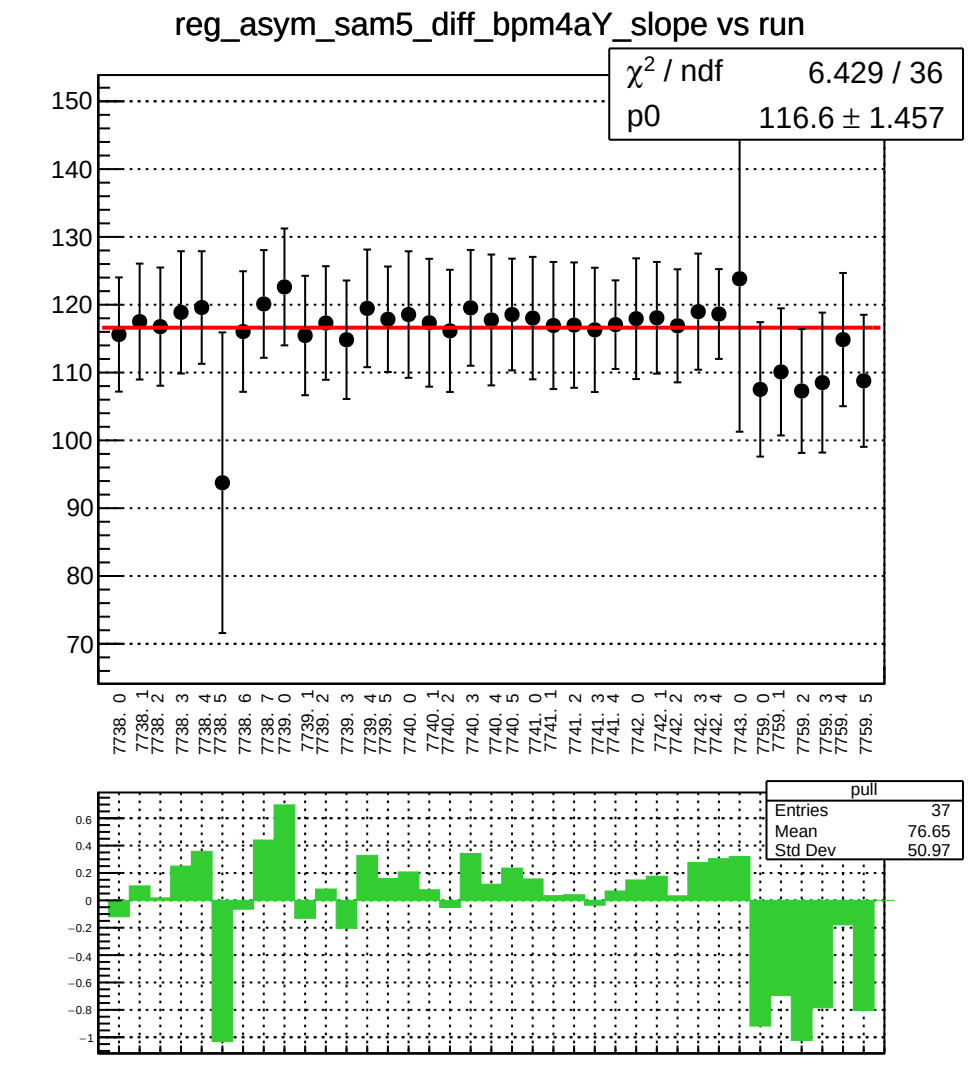

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 21.54 / 36
p0 −146.6 ± 6.98
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.22
Std Dev 14.91
1
0
−1
−2
−3
pull1D
Entries 37
Mean 0.1978
Std Dev 0.737
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

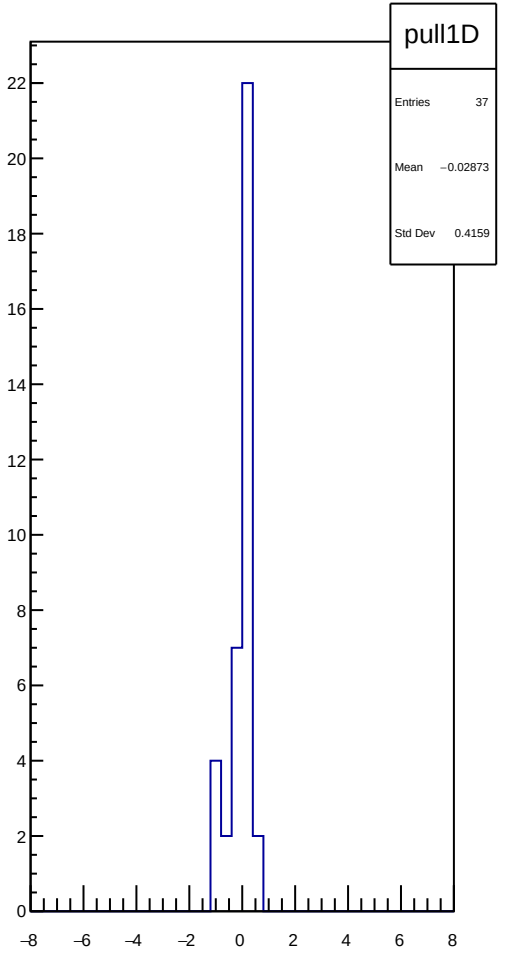

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 6.606 / 36
p0 18.62 ± 13.79
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −22.76
Std Dev 44.66
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean −0.05858
Std Dev 0.4184
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

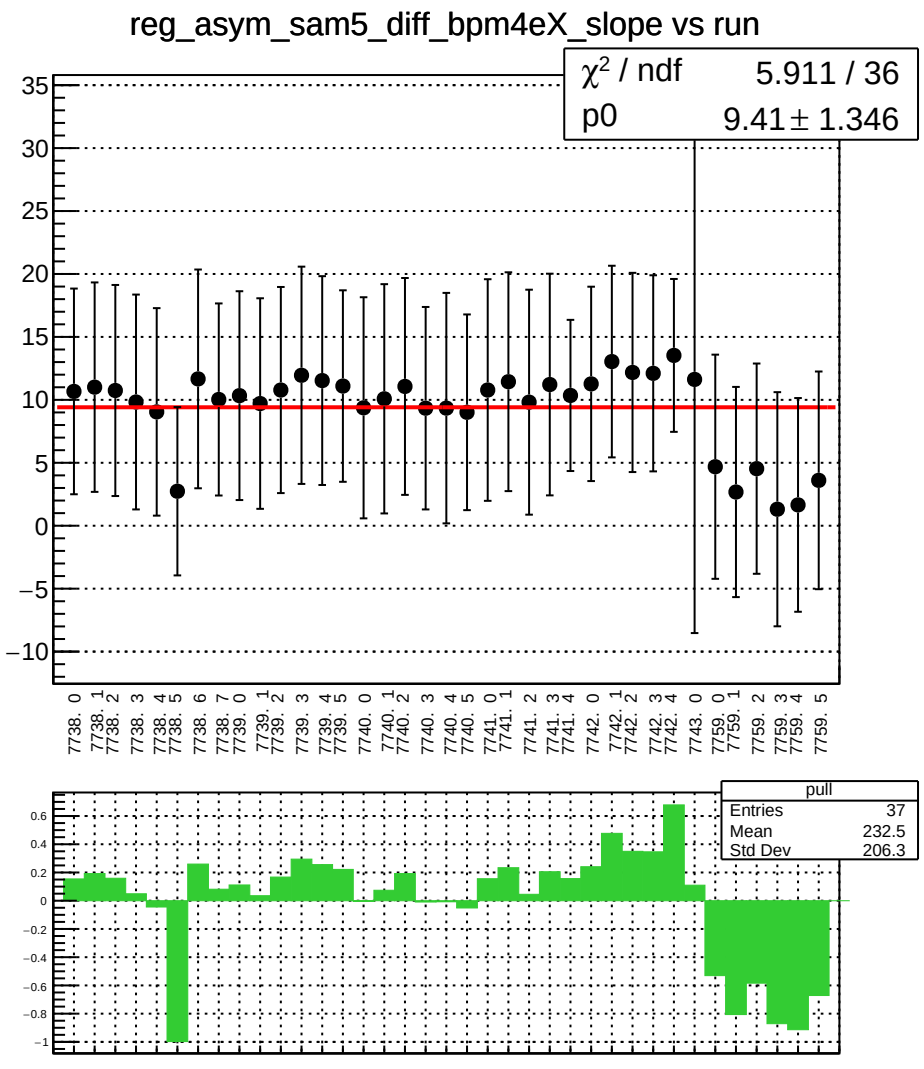

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.818 / 36
p0 −2.606 ± 0.4352
pull
Entries 37
Mean 3.309
Std Dev 18.73
pull1D
Entries 37
Mean −0.0788
Std Dev 0.3886

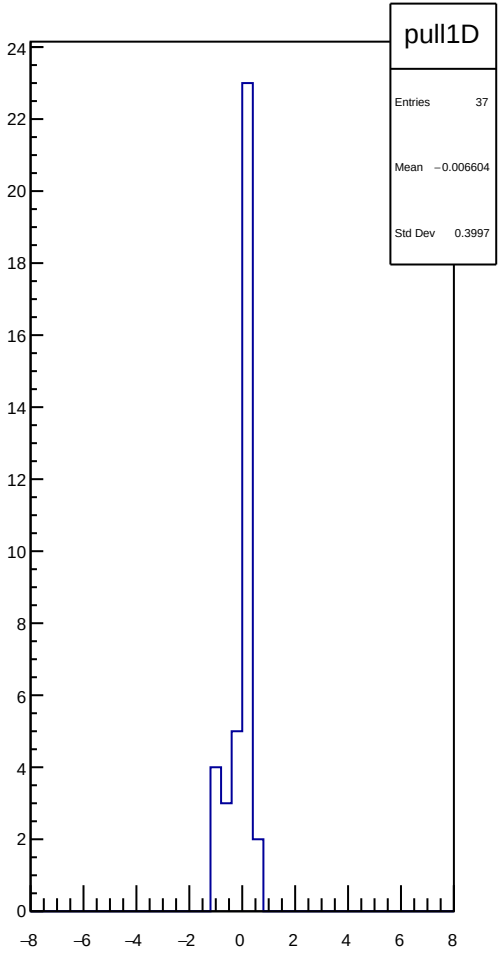

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.193 / 36
p0 −6.906 ± 1.346
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 92.88
Std Dev 65.49
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

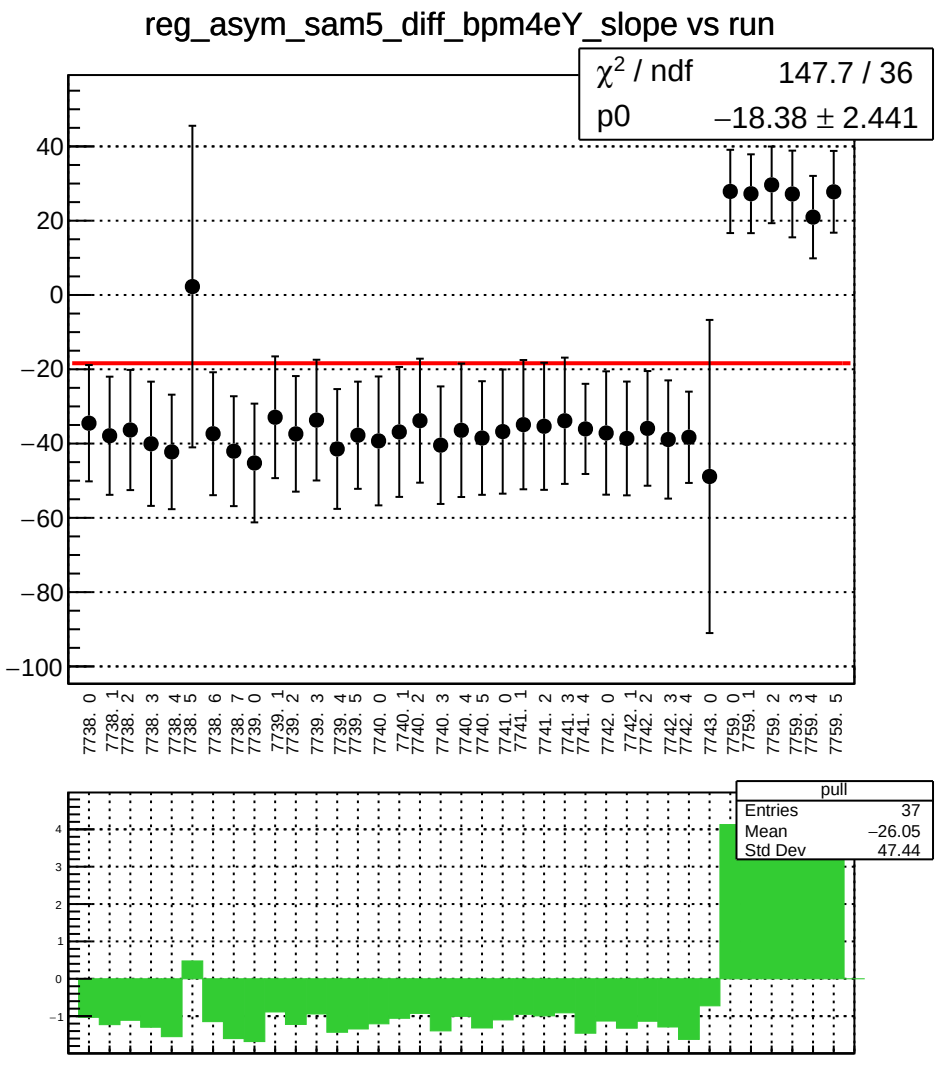

pull1D
Entries 37
Mean 0.01592
Std Dev 0.3743
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

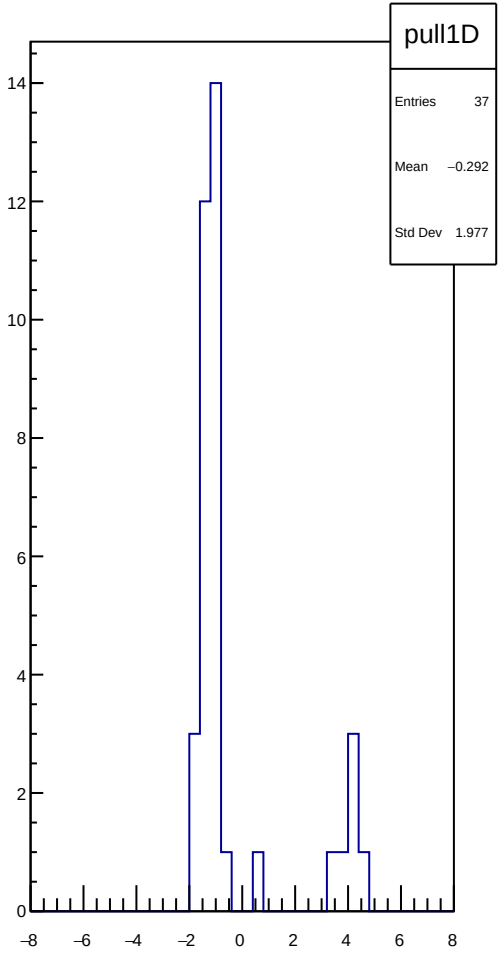

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 6.429 / 36
p0 116.6 ± 1.457
150
140
130
120
110
100
90
80
70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 76.65
Std Dev 50.97
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

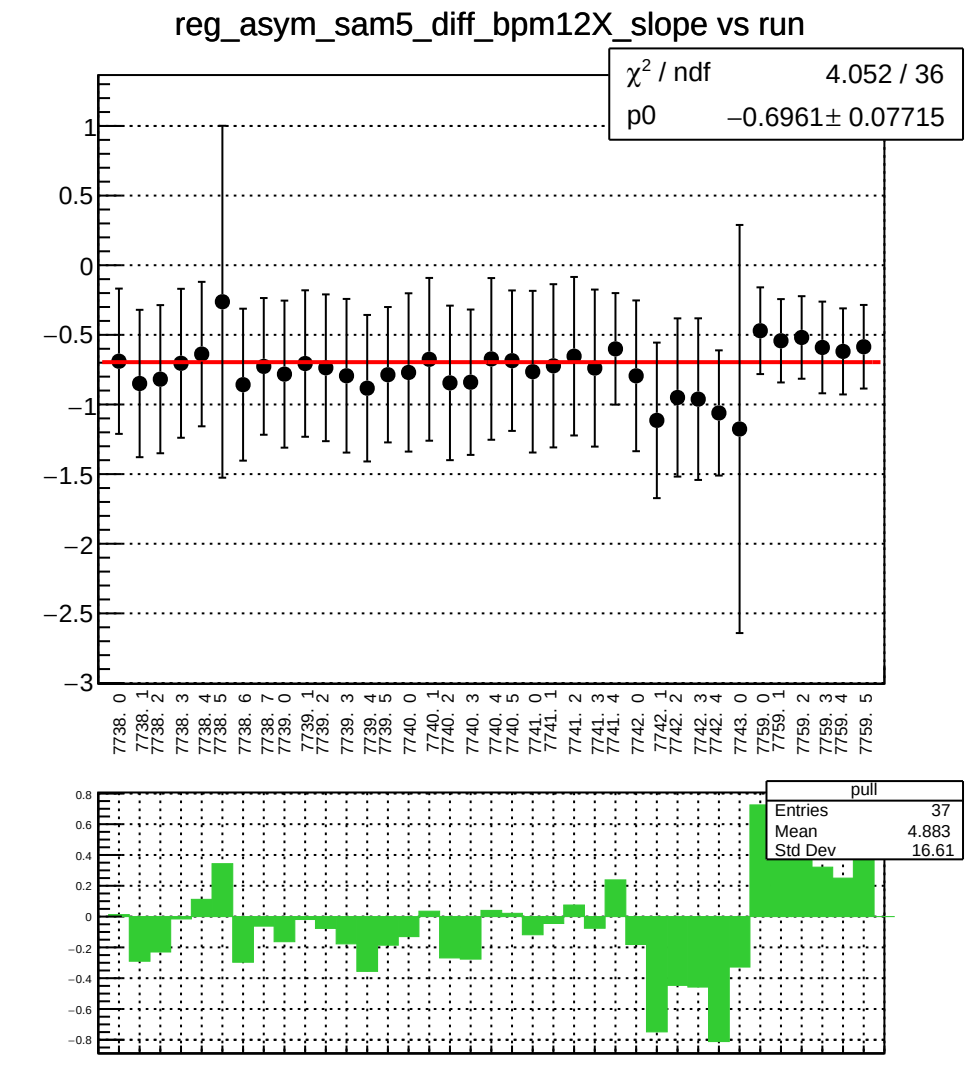

pull1D
Entries 37
Mean −0.02873
Std Dev 0.4159
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

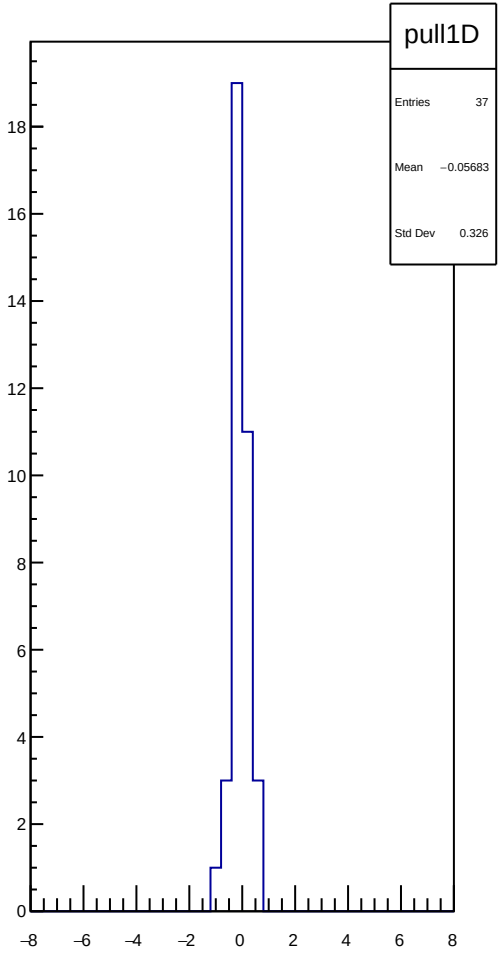

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.911 / 36
p0 9.41 ± 1.346
pull
Entries 37
Mean 232.5
Std Dev 206.3

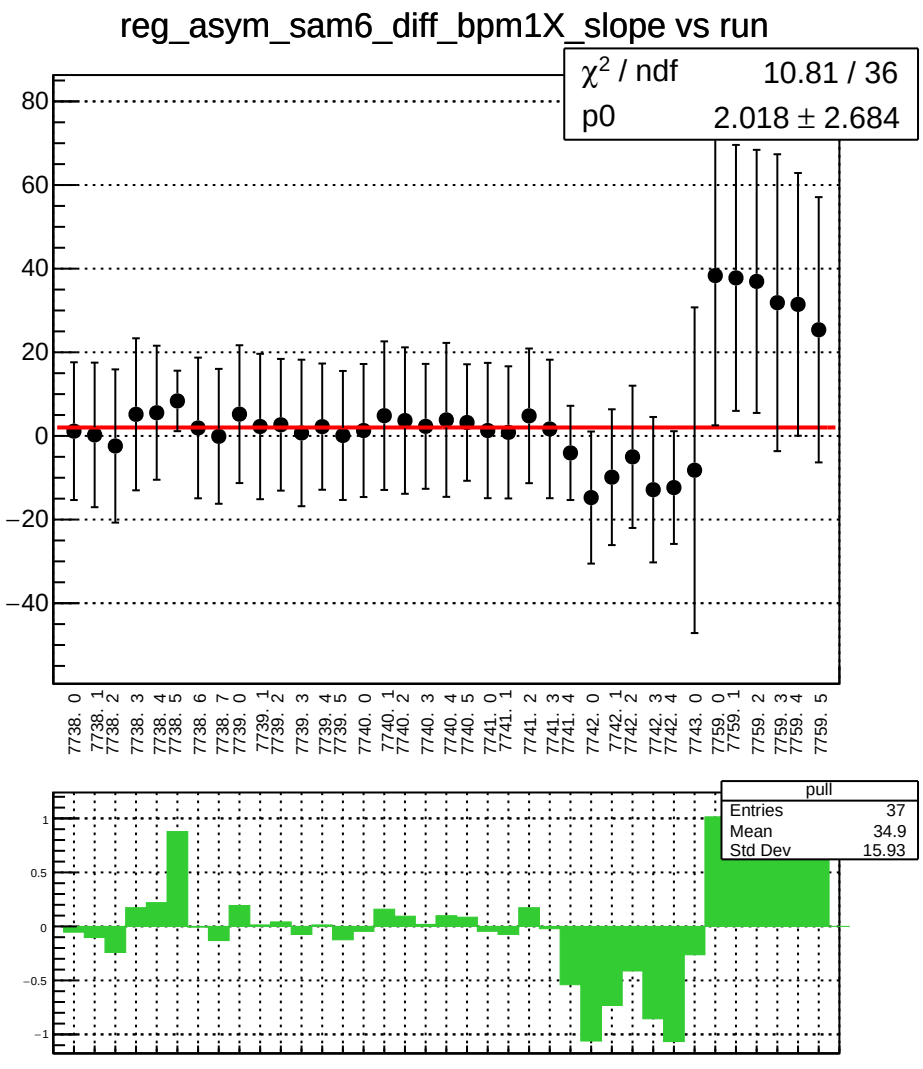

pull1D
Entries 37
Mean −0.006604
Std Dev 0.3997

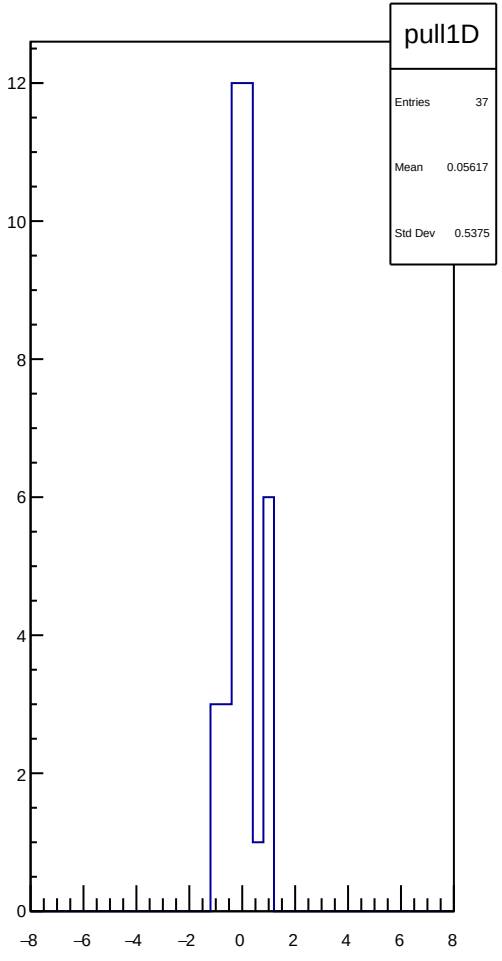

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 147.7 / 36
p0 −18.38 ± 2.441
40
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.05
Std Dev 47.44
4
3
2
1
0
−1

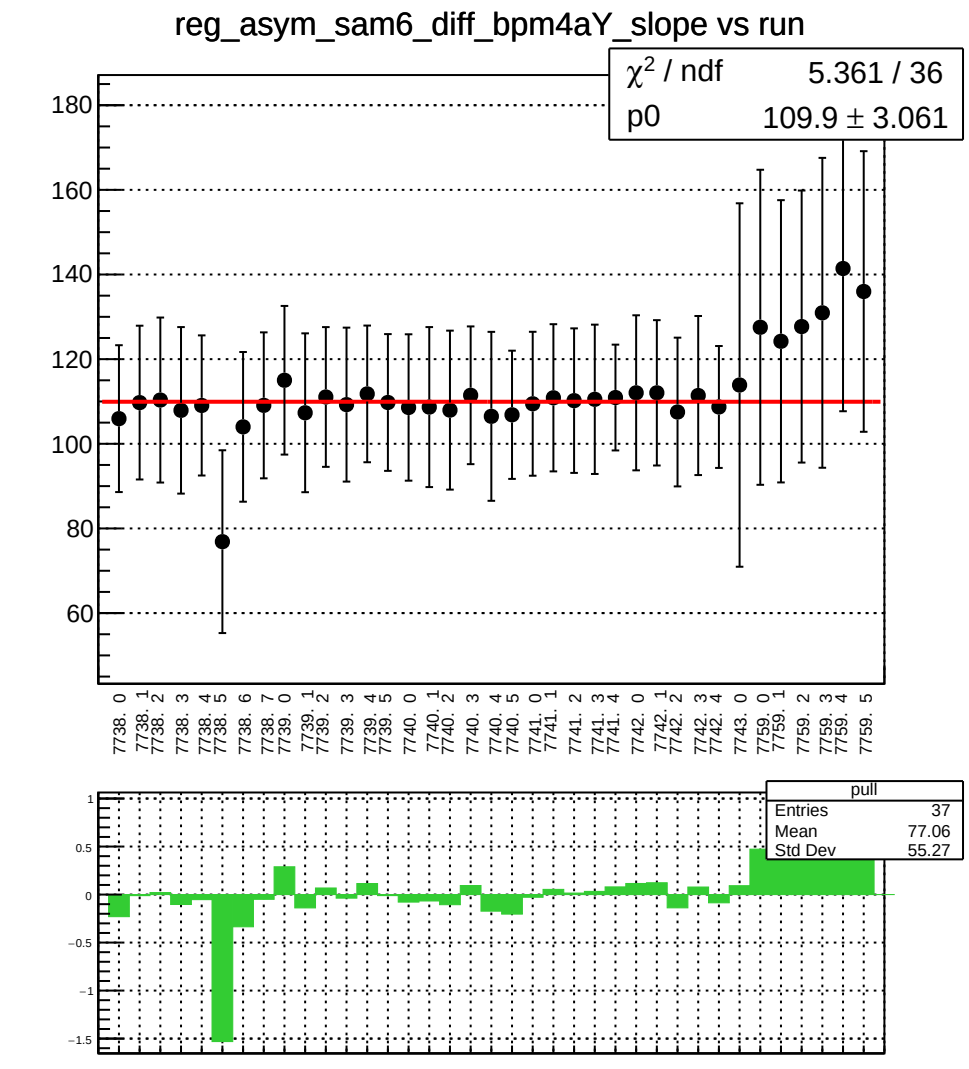

pull1D
Entries 37
Mean −0.292
Std Dev 1.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

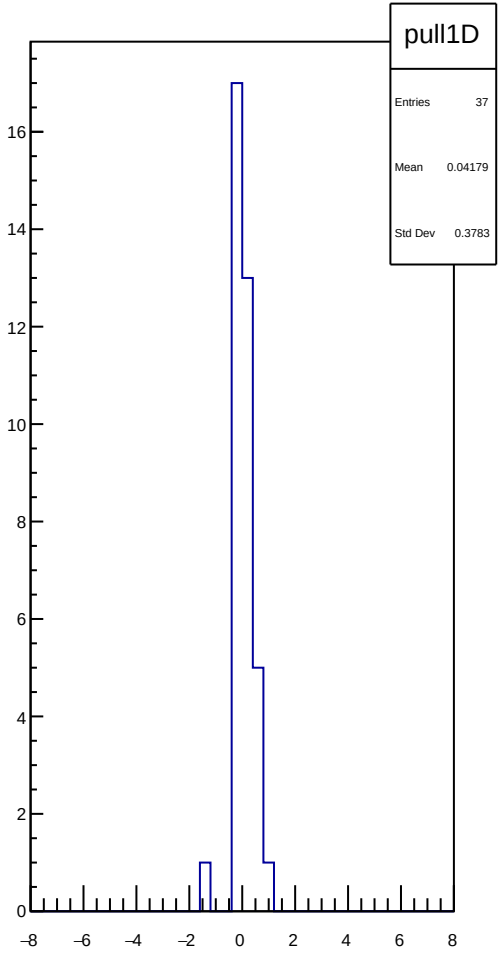

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 4.052 / 36
p0 −0.6961± 0.07715
pull
Entries 37
Mean 4.883
Std Dev 16.61

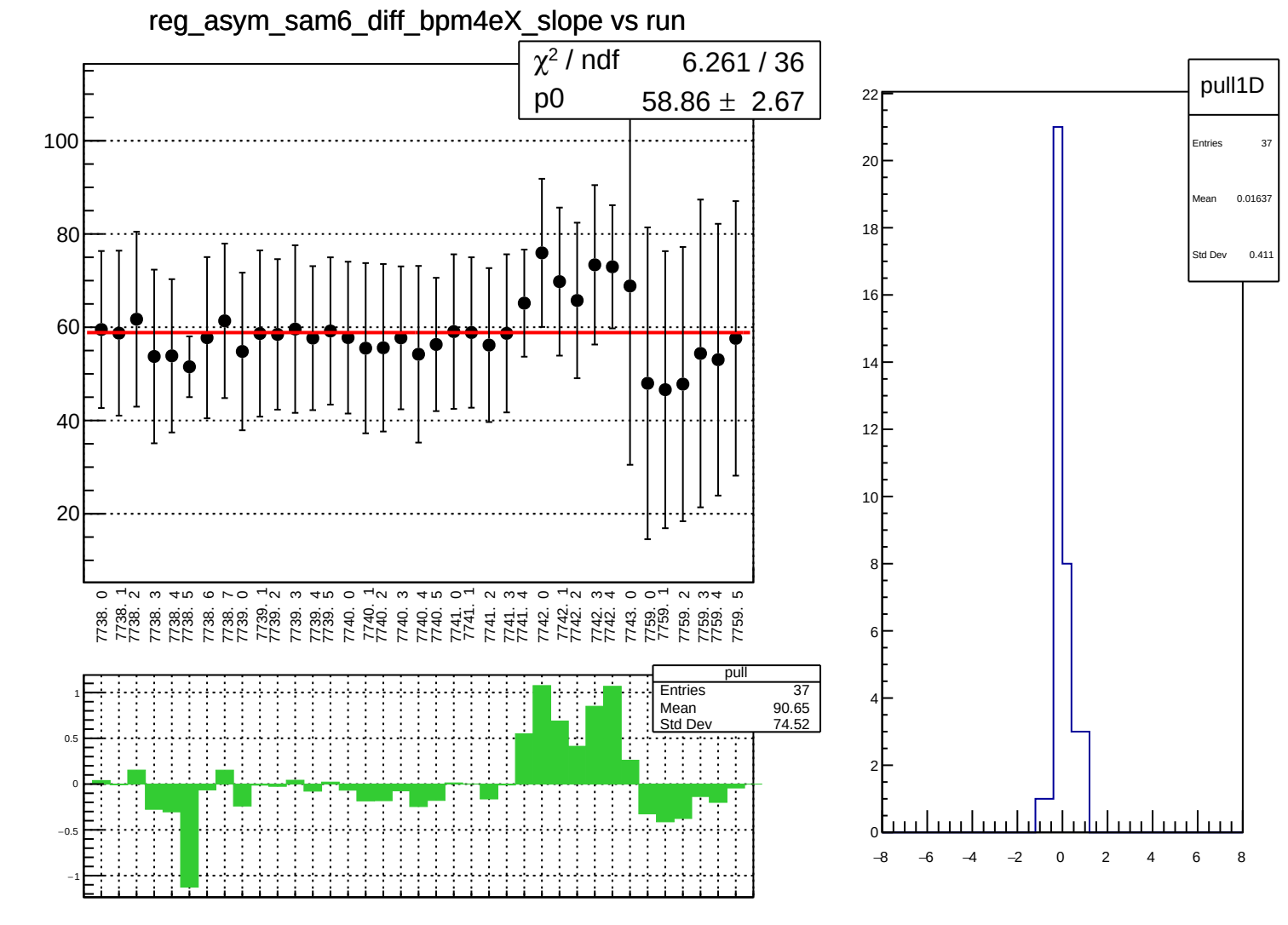

pull1D
Entries 37
Mean −0.05683
Std Dev 0.326

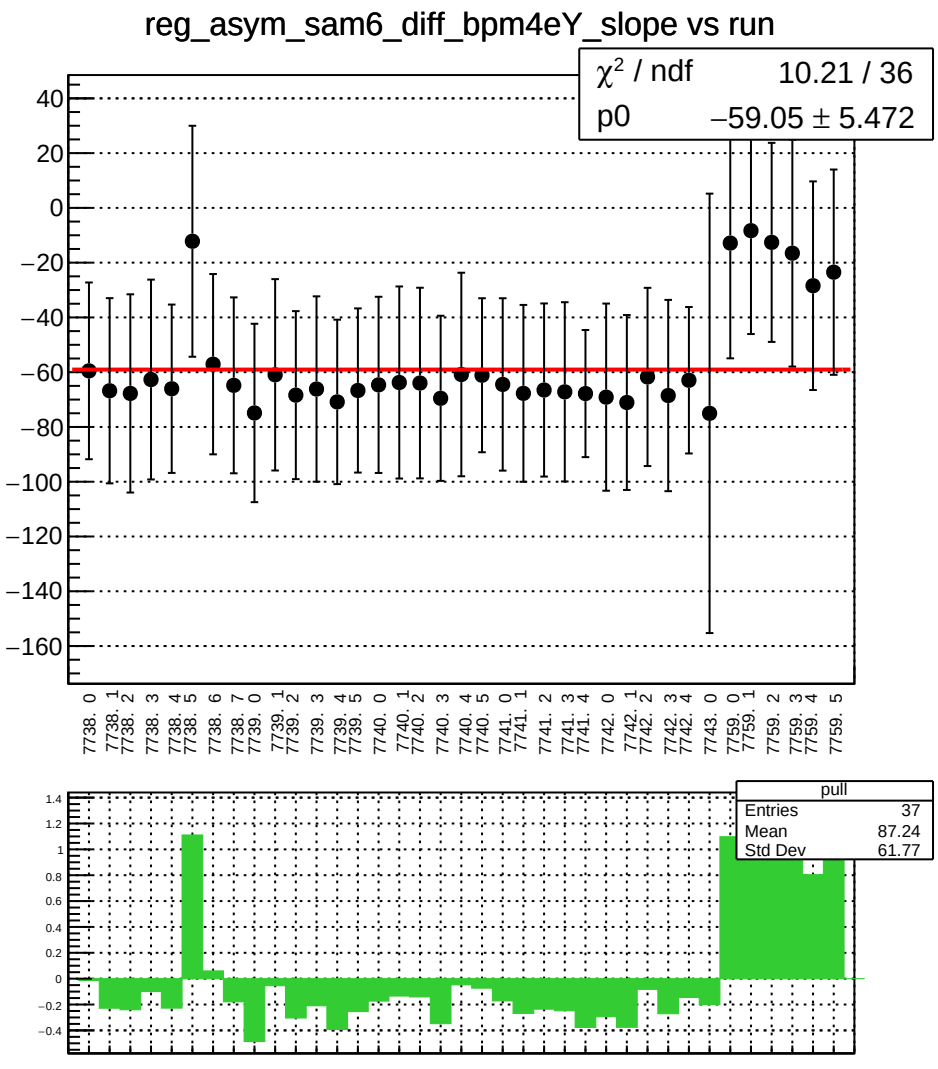

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 10.81 / 36
p0 2.018 ± 2.684
pull
Entries 37
Mean 34.9
Std Dev 15.93

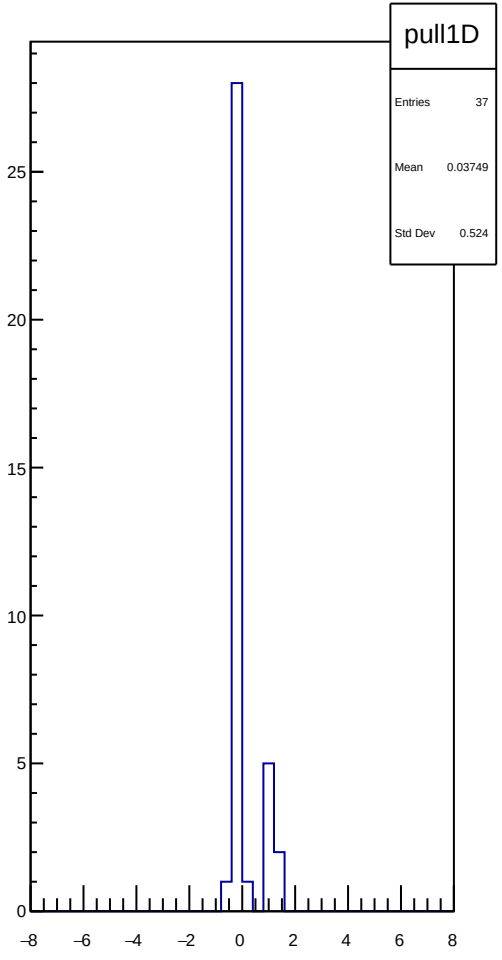

pull1D
Entries 37
Mean 0.05617
Std Dev 0.5375

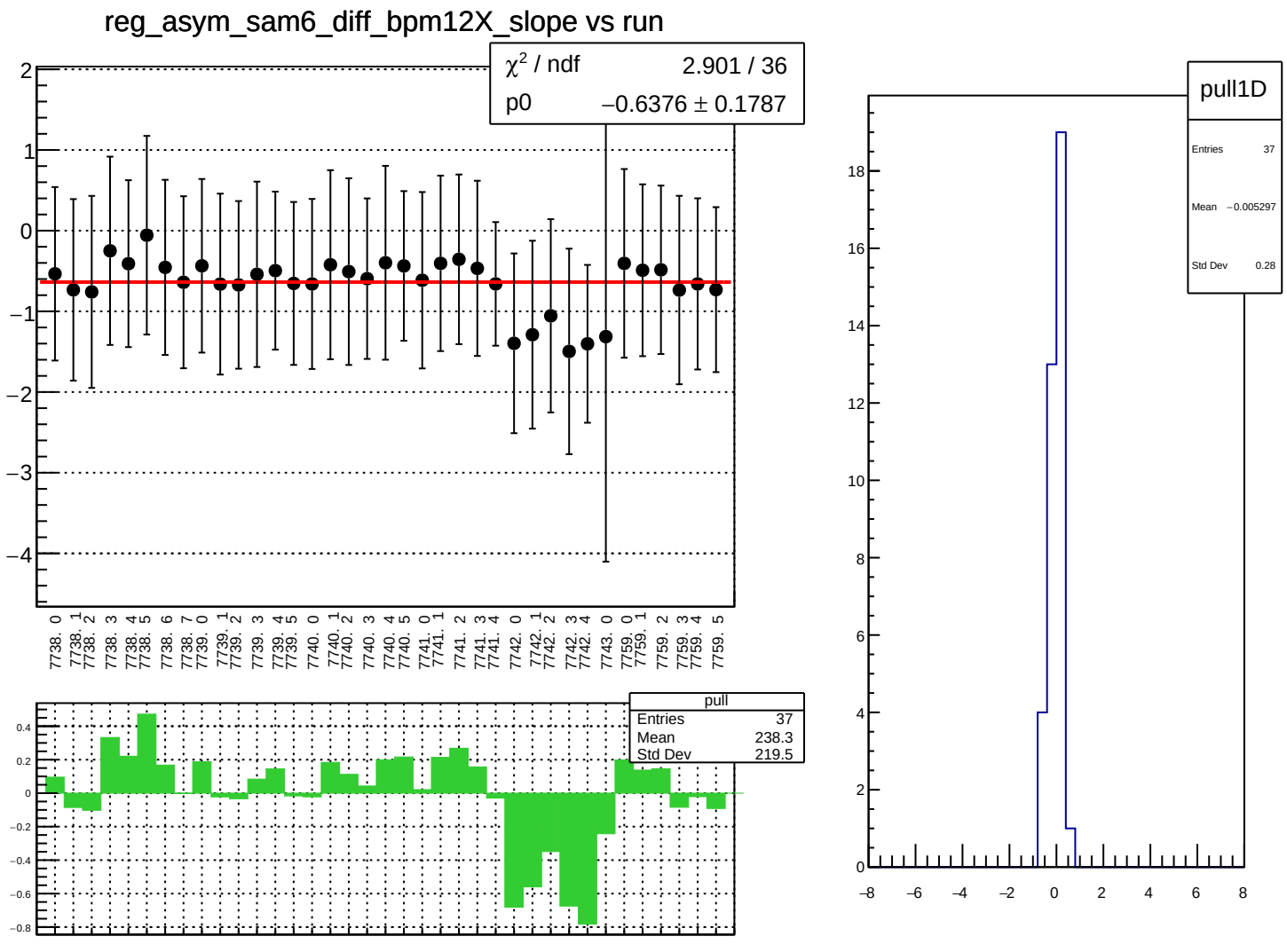

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 5.361 / 36
p0 109.9 ± 3.061
180
160
140
120
100
80
60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 77.06
Std Dev 55.27
1
0.5
0
−0.5
−1
−1.5

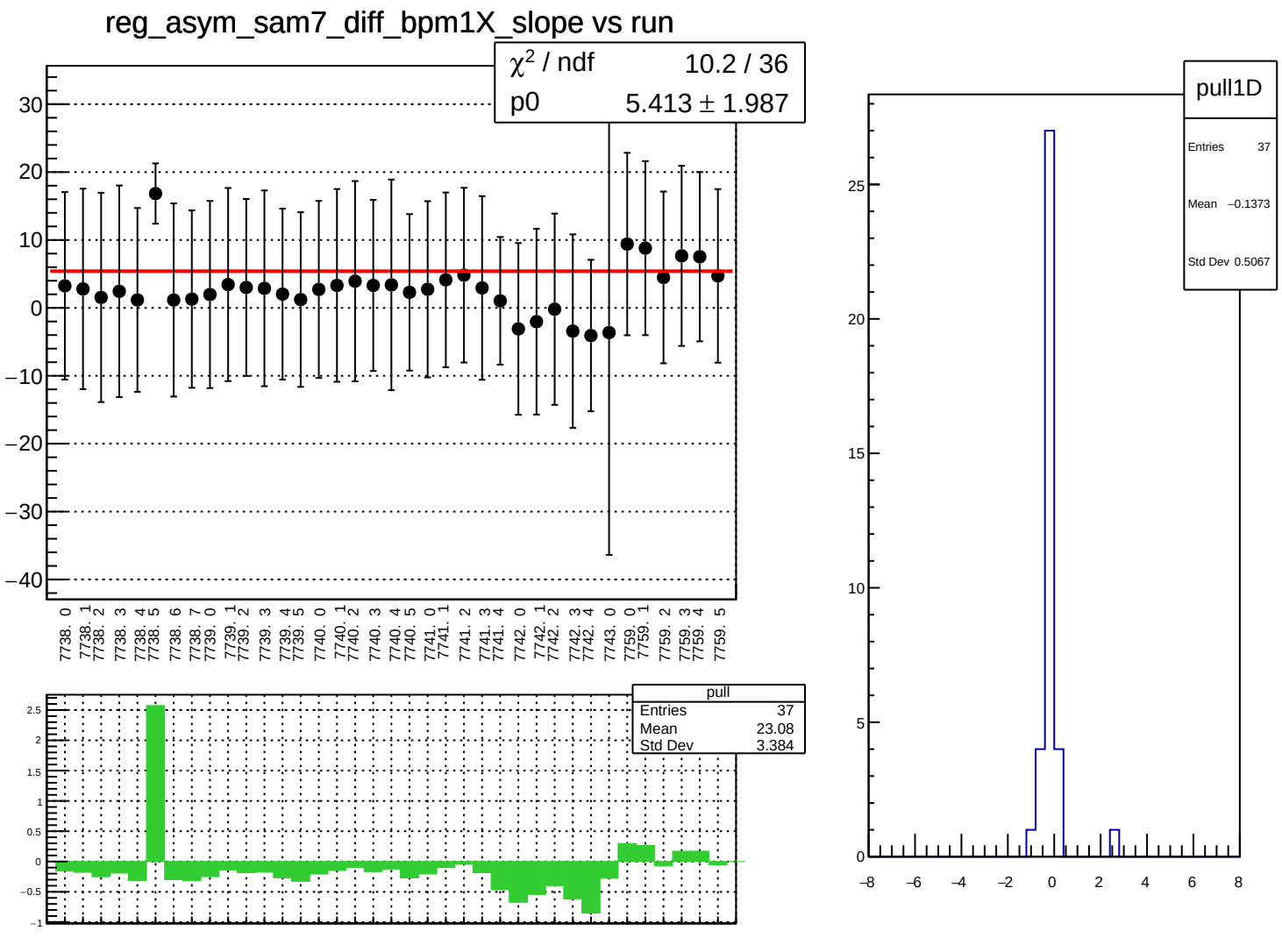

pull1D
Entries 37
Mean 0.04179
Std Dev 0.3783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

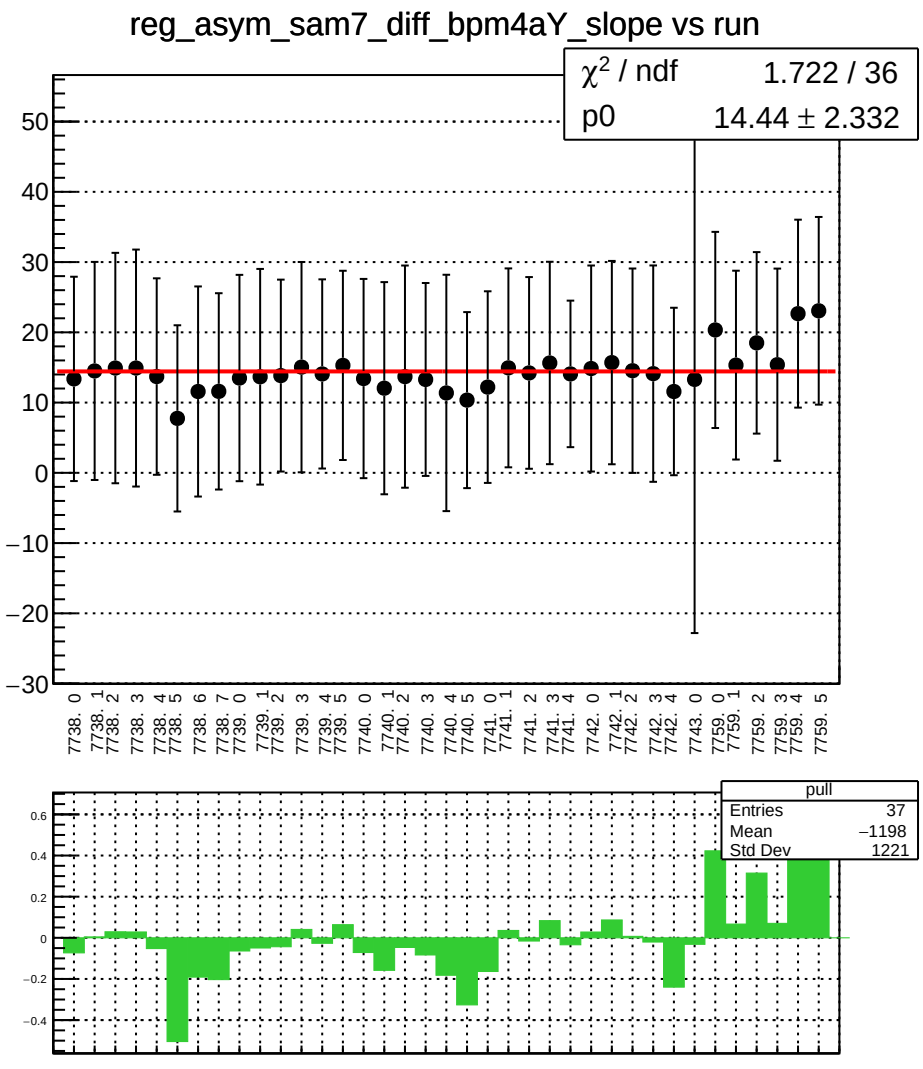

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 6.261 / 36
p0 58.86 ± 2.67
pull
Entries 37
Mean 90.65
Std Dev 74.52
pull1D
Entries 37
Mean 0.01637
Std Dev 0.411

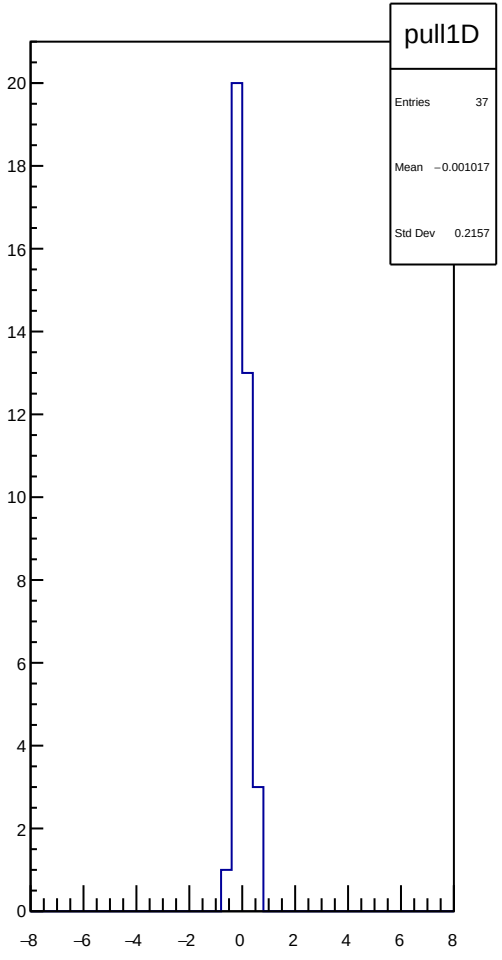

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 10.21 / 36
p0 −59.05 ± 5.472
pull
Entries 37
Mean 87.24
Std Dev 61.77

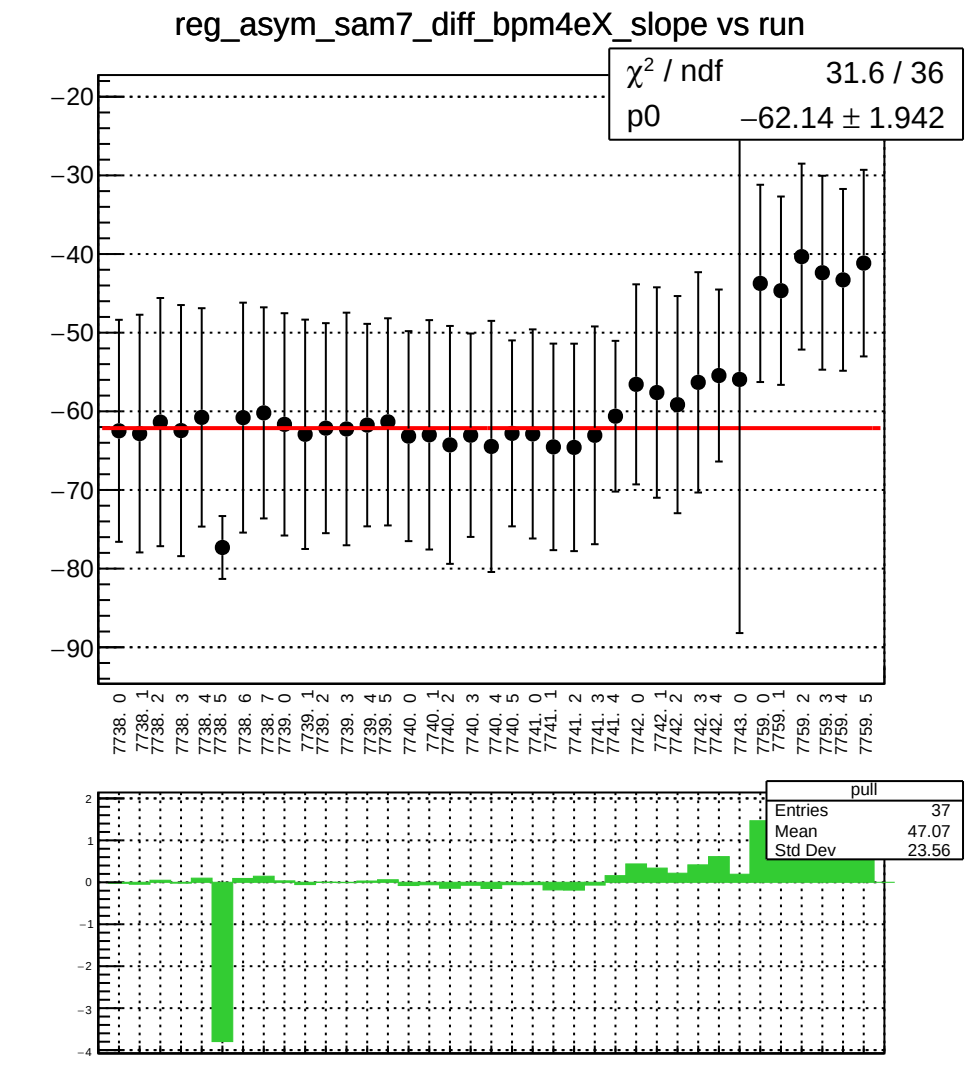

pull1D
Entries 37
Mean 0.03749
Std Dev 0.524

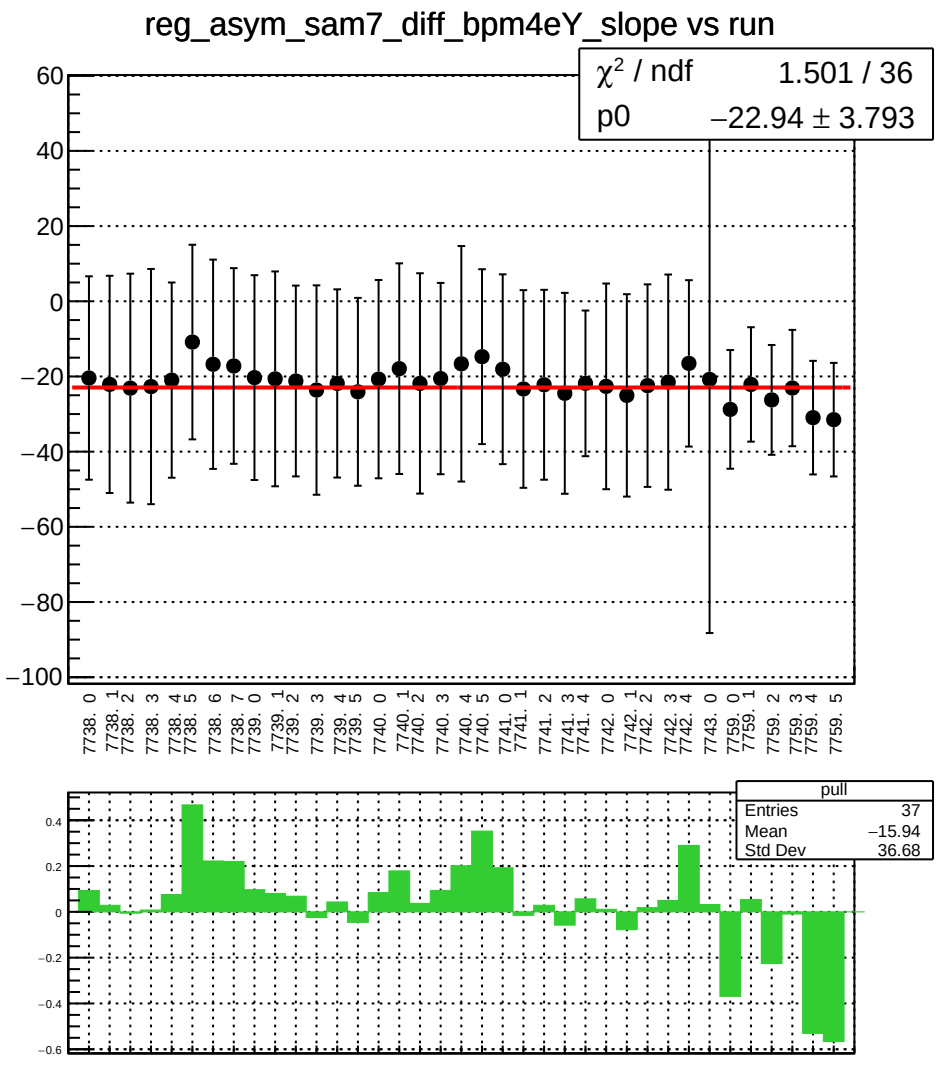

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 2.901 / 36
p0 −0.6376 ± 0.1787
pull
Entries 37
Mean 238.3
Std Dev 219.5
pull1D
Entries 37
Mean −0.005297
Std Dev 0.28

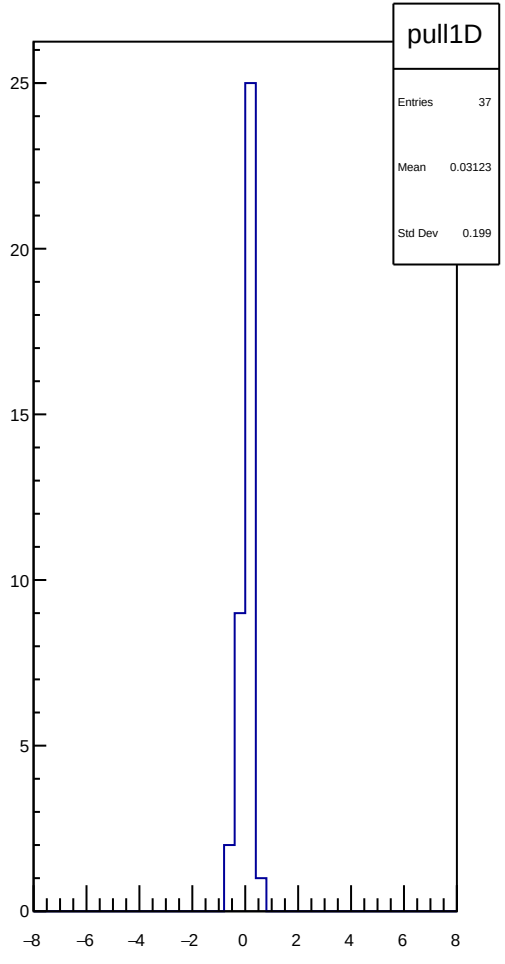

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 10.2 / 36
p0 5.413 ± 1.987
pull
Entries 37
Mean 23.08
Std Dev 3.384
pull1D
Entries 37
Mean −0.1373
Std Dev 0.5067

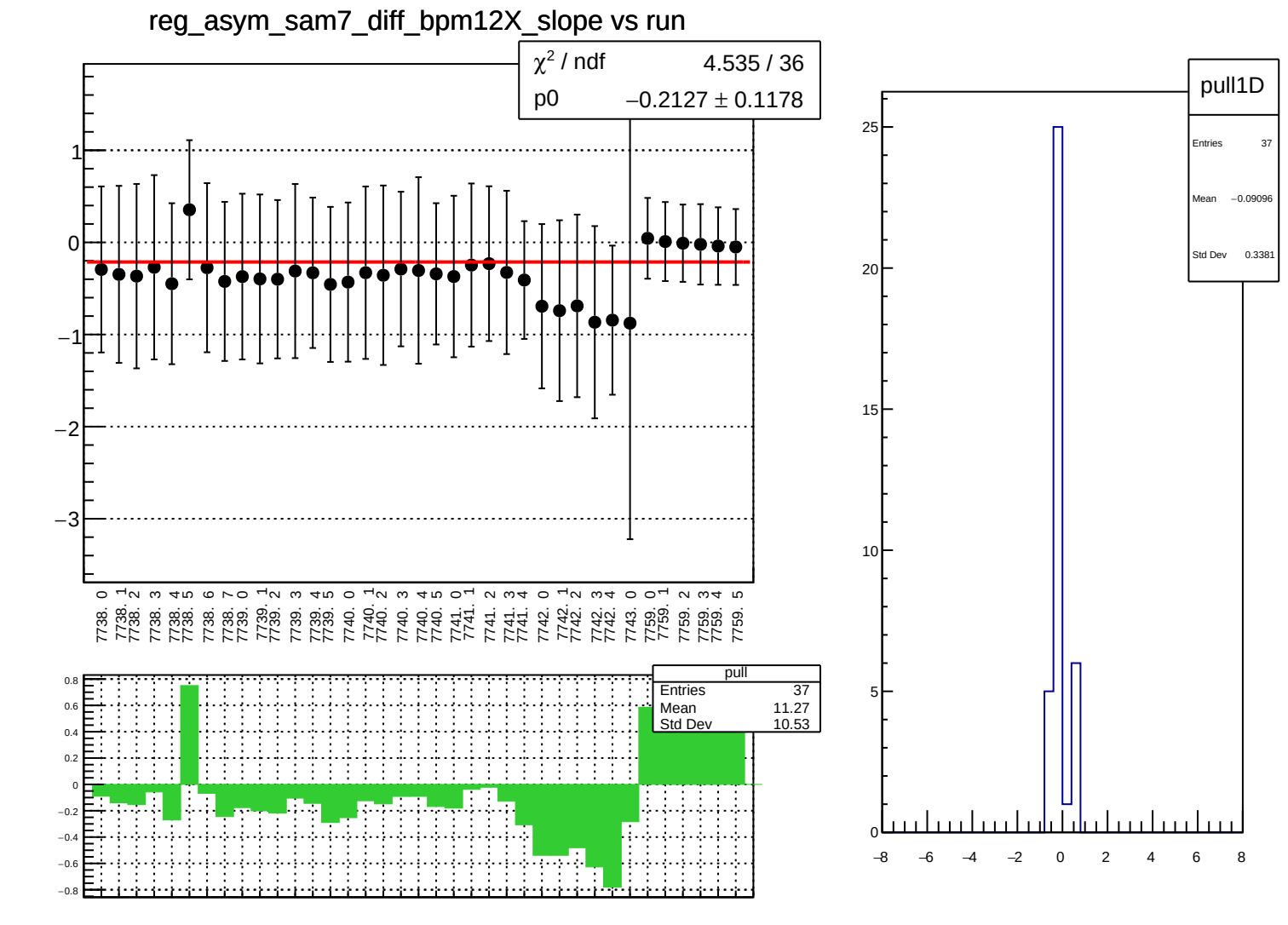

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 1.722 / 36
p0 14.44 ± 2.332
pull
Entries 37
Mean −1198
Std Dev 1221

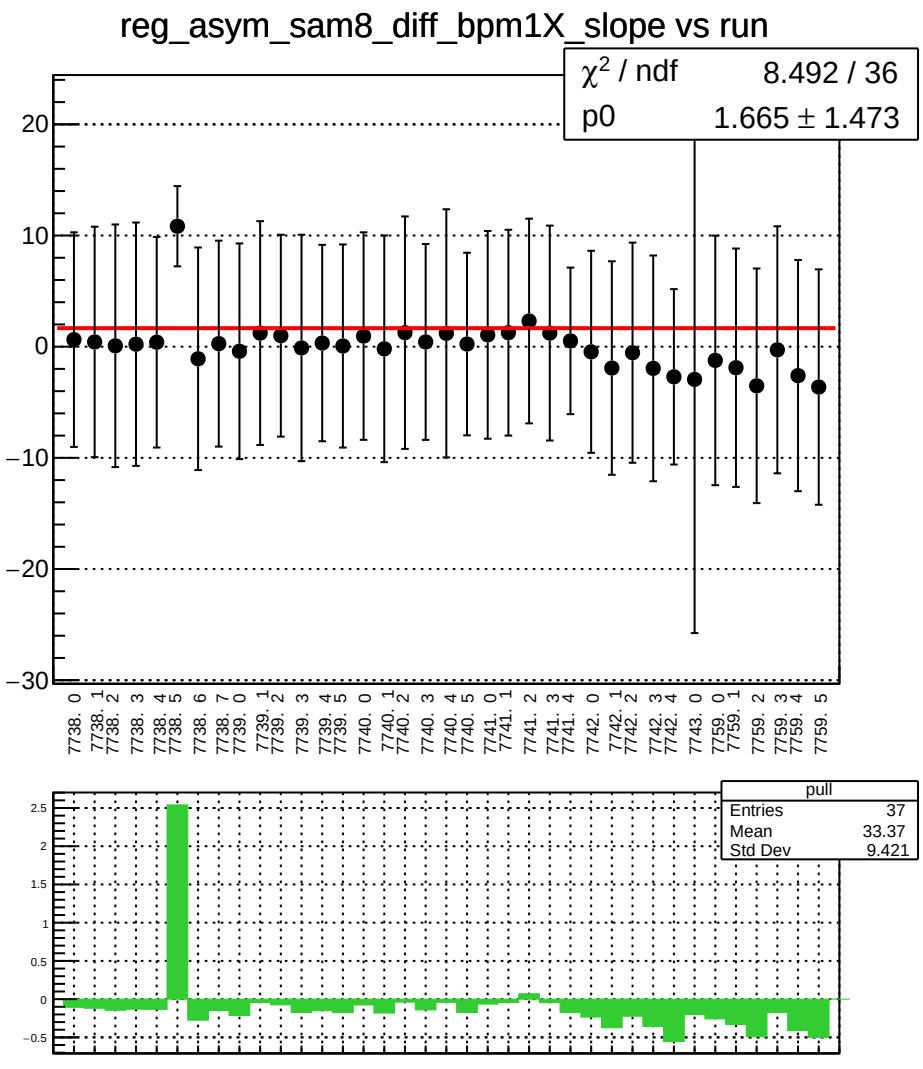

pull1D
Entries 37
Mean −0.001017
Std Dev 0.2157

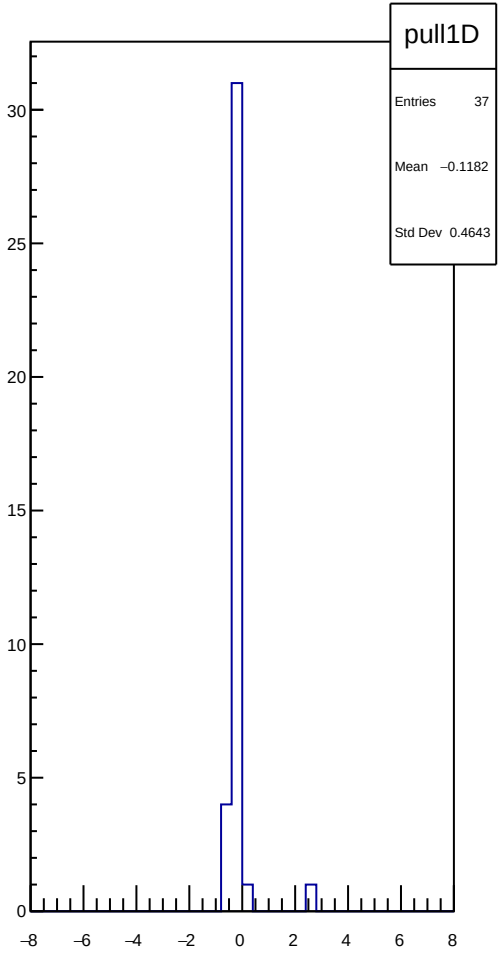

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 31.6 / 36
p0 −62.14 ± 1.942
−20
−30
−40
−50
−60
−70
−80
−90
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.07
Std Dev 23.56
2
1
0
−1
−2
−3
−4
pull1D
Entries 37
Mean 0.2072
Std Dev 0.9007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

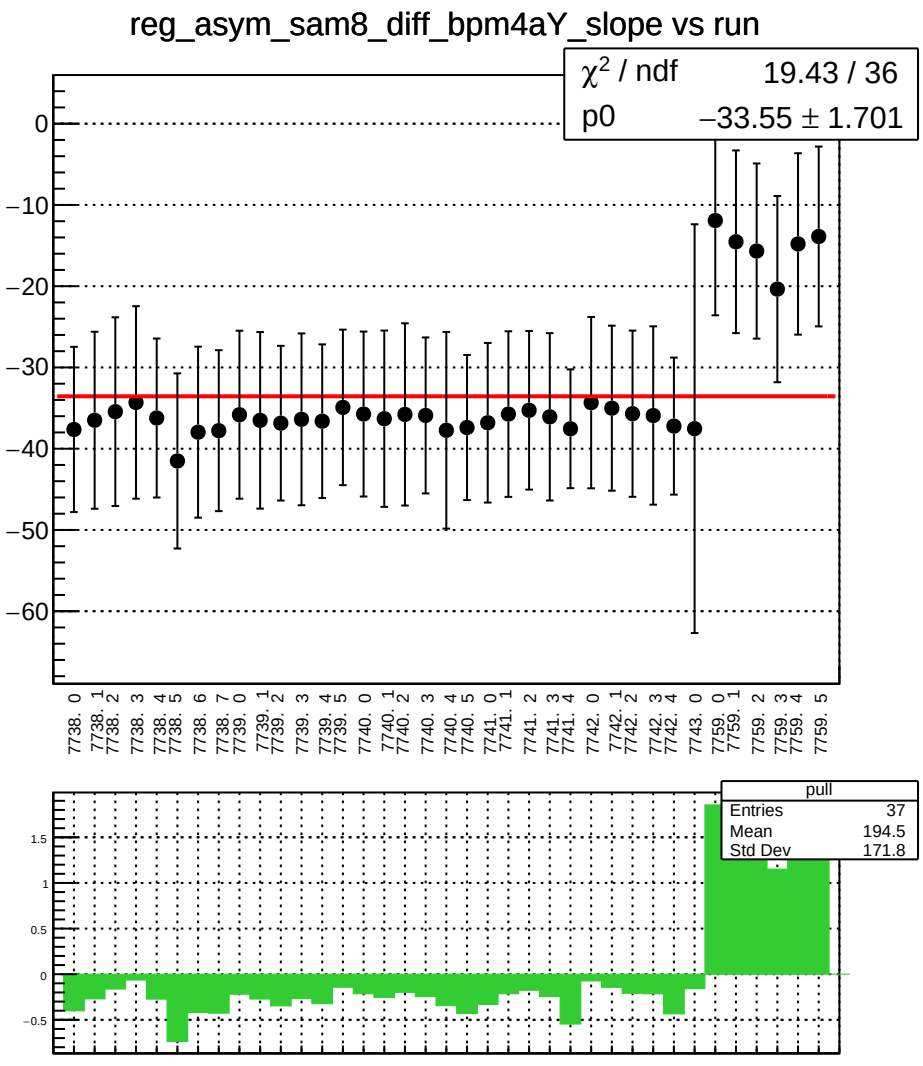

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 1.501 / 36
p0 −22.94 ± 3.793
pull
Entries 37
Mean −15.94
Std Dev 36.68

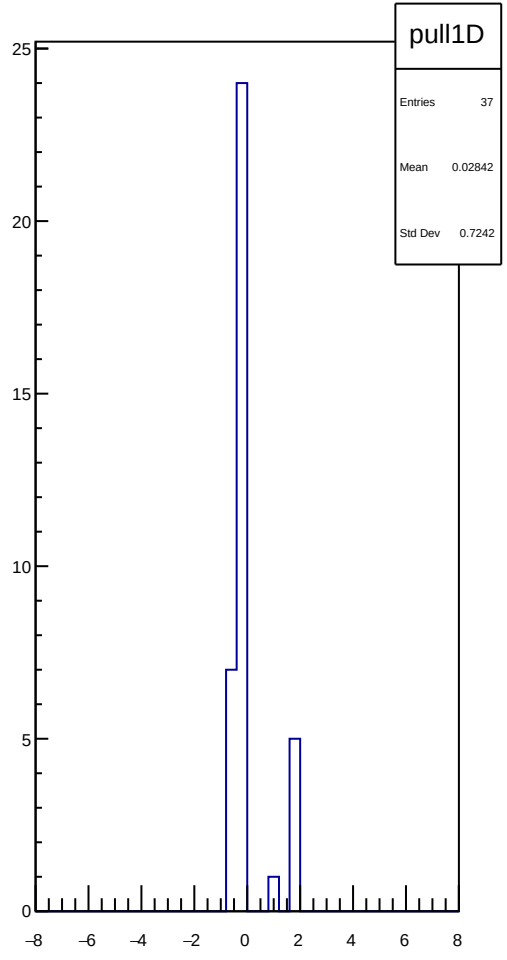

pull1D
Entries 37
Mean 0.03123
Std Dev 0.199

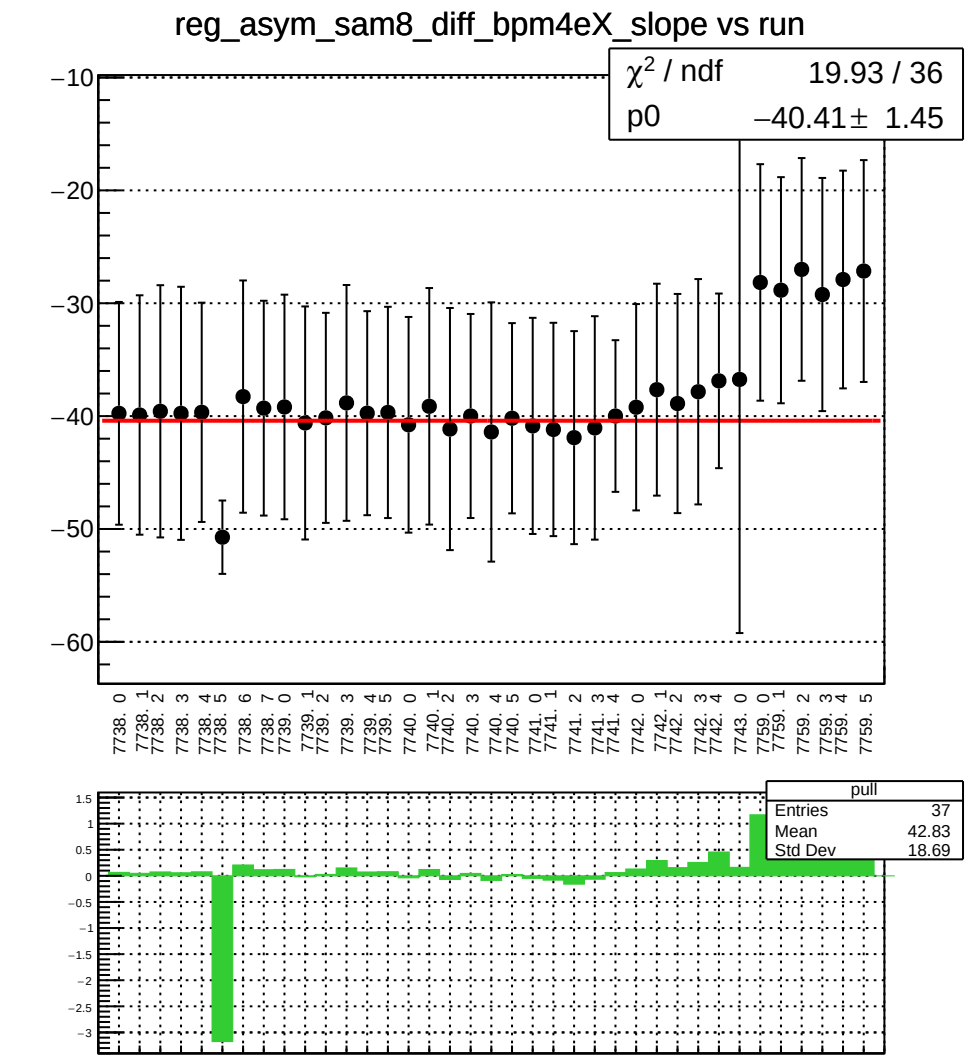

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 4.535 / 36
p0 −0.2127 ± 0.1178
pull
Entries 37
Mean 11.27
Std Dev 10.53
pull1D
Entries 37
Mean −0.09096
Std Dev 0.3381

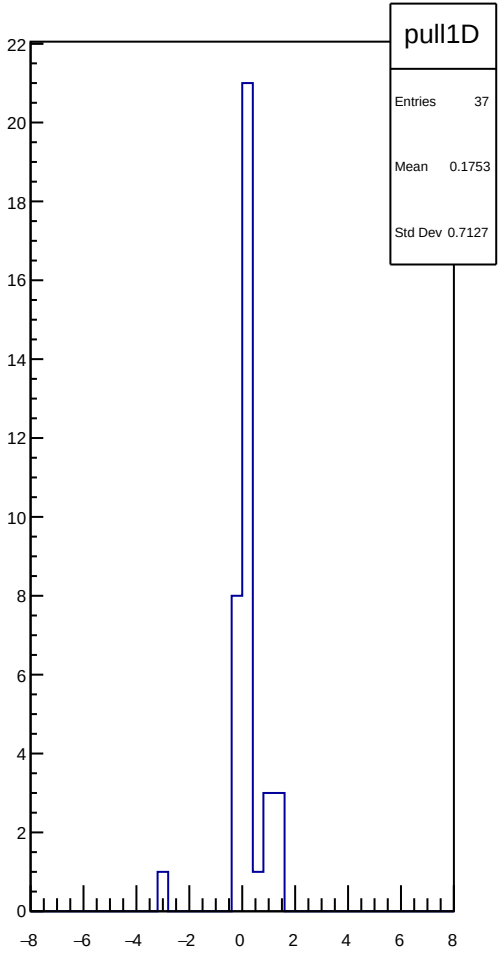

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 8.492 / 36
p0 1.665 ± 1.473
20
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.37
Std Dev 9.421
2.5
2
1.5
1
0.5
0
−0.5

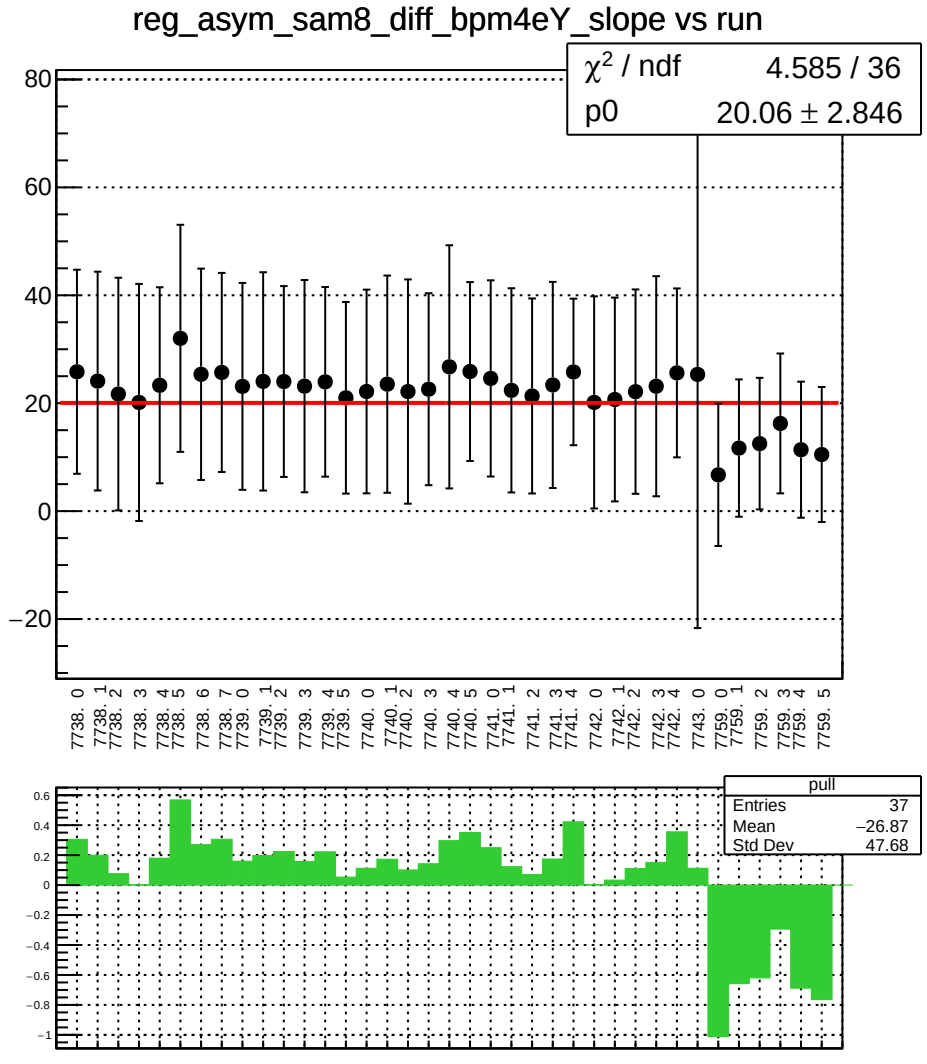

pull1D
Entries 37
Mean −0.1182
Std Dev 0.4643
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

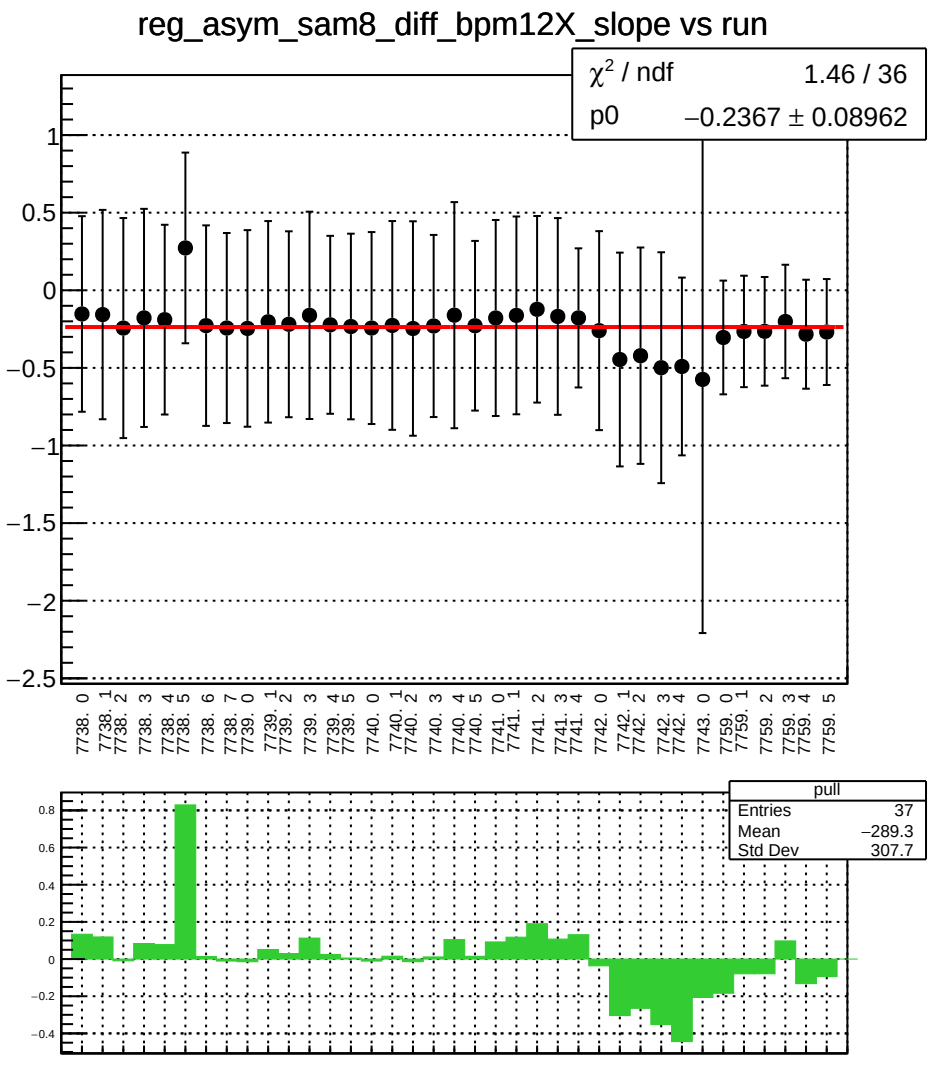

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 19.43 / 36
p0 −33.55 ± 1.701
0
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 194.5
Std Dev 171.8
1.5
1
0.5
0
−0.5

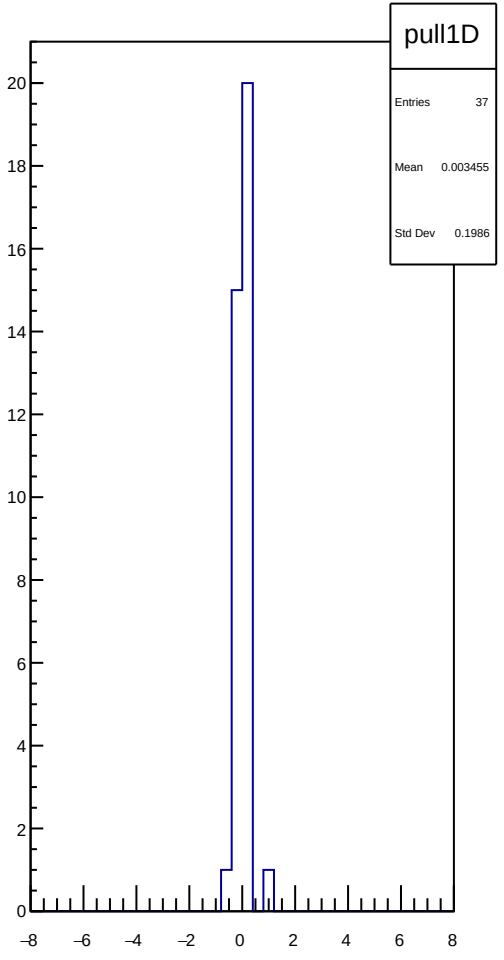

pull1D
Entries 37
Mean 0.02842
Std Dev 0.7242
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

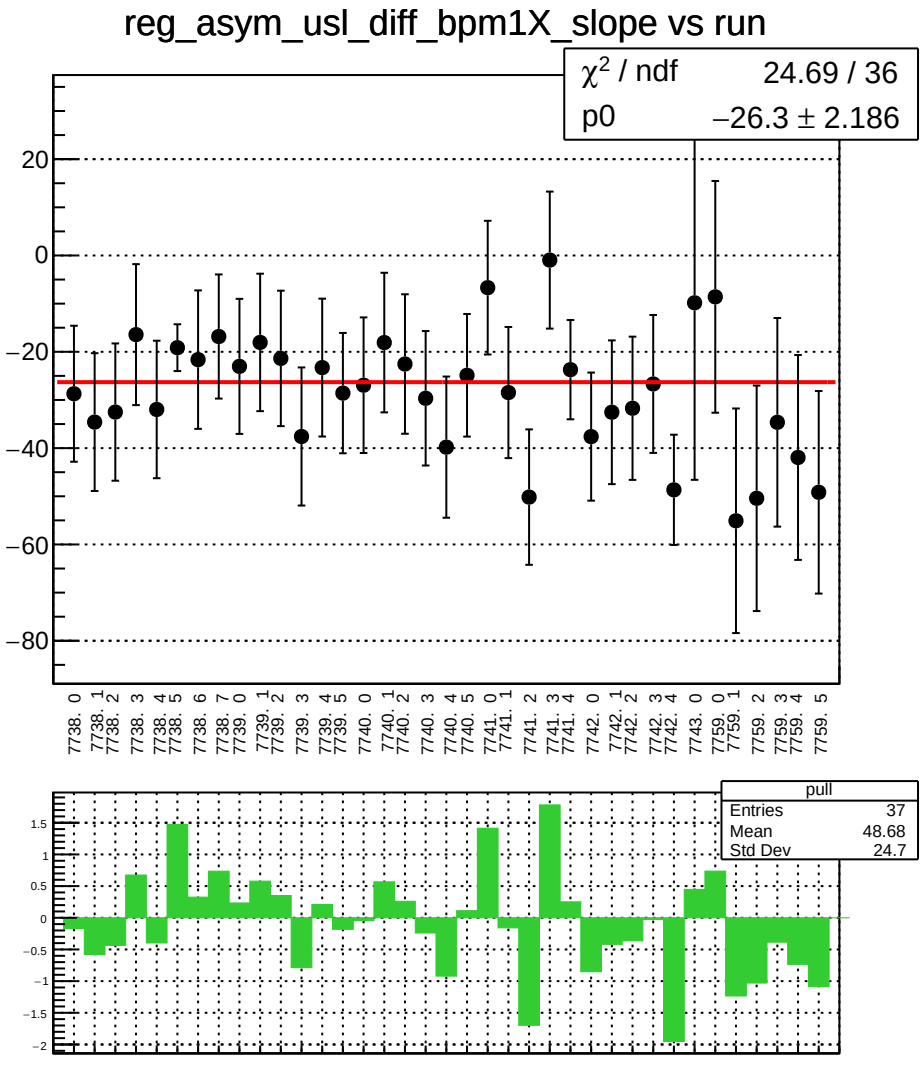

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 19.93 / 36
p0 −40.41 ± 1.45
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 42.83
Std Dev 18.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

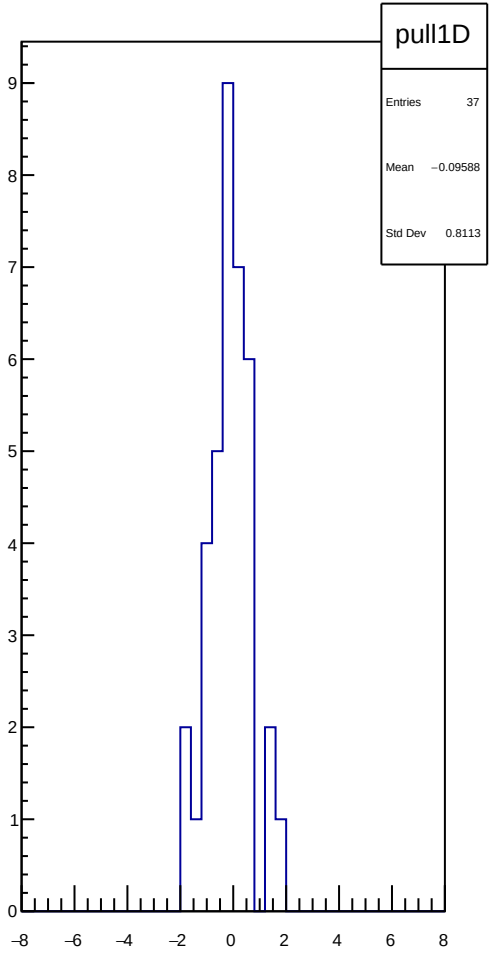

pull1D
Entries 37
Mean 0.1753
Std Dev 0.7127
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

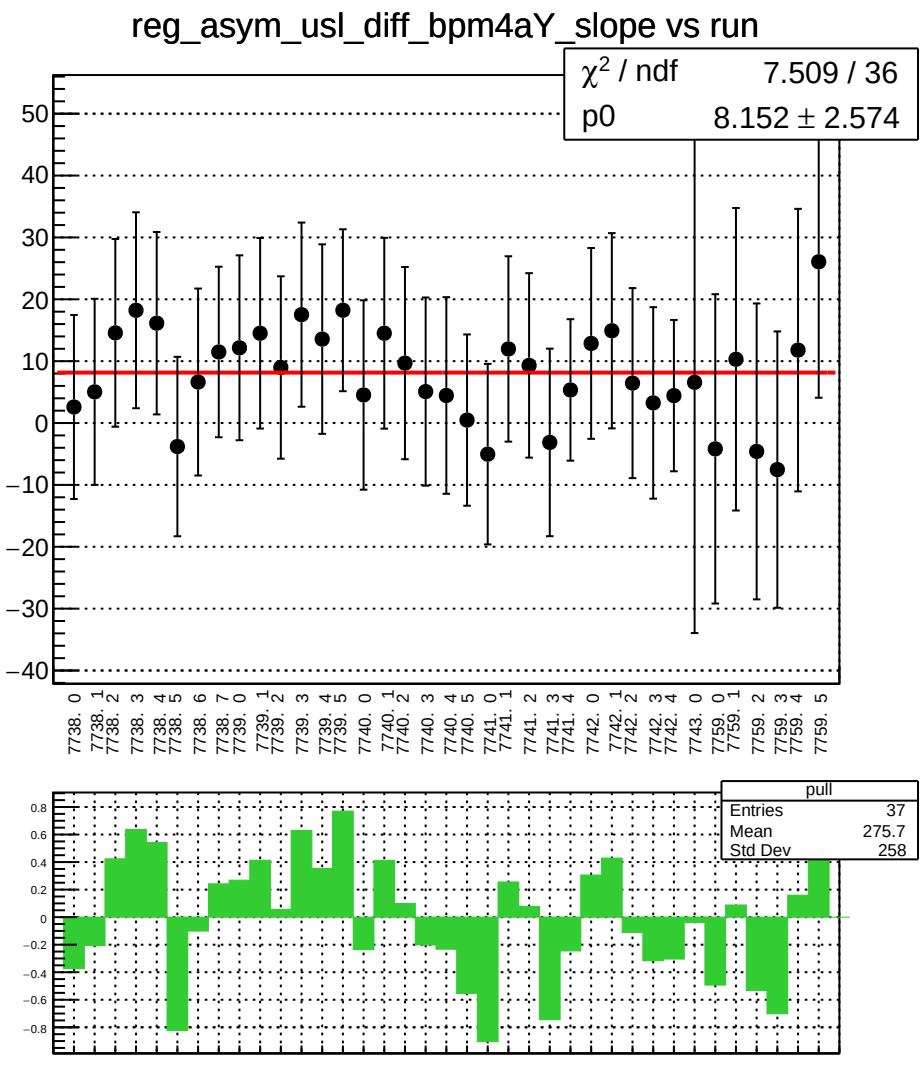

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 4.585 / 36
p0 20.06 ± 2.846
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.87
Std Dev 47.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 37
Mean 0.05044
Std Dev 0.3484
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

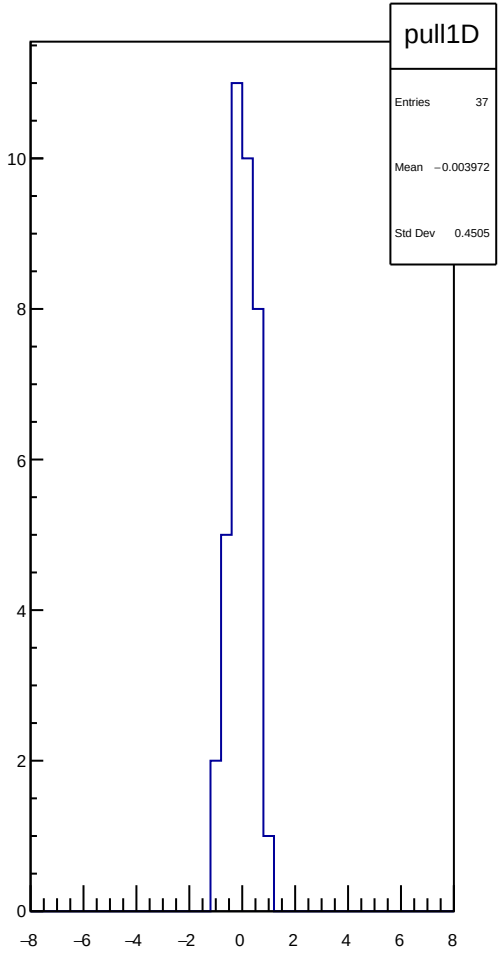

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 1.46 / 36
p0 −0.2367 ± 0.08962
pull
Entries 37
Mean −289.3
Std Dev 307.7

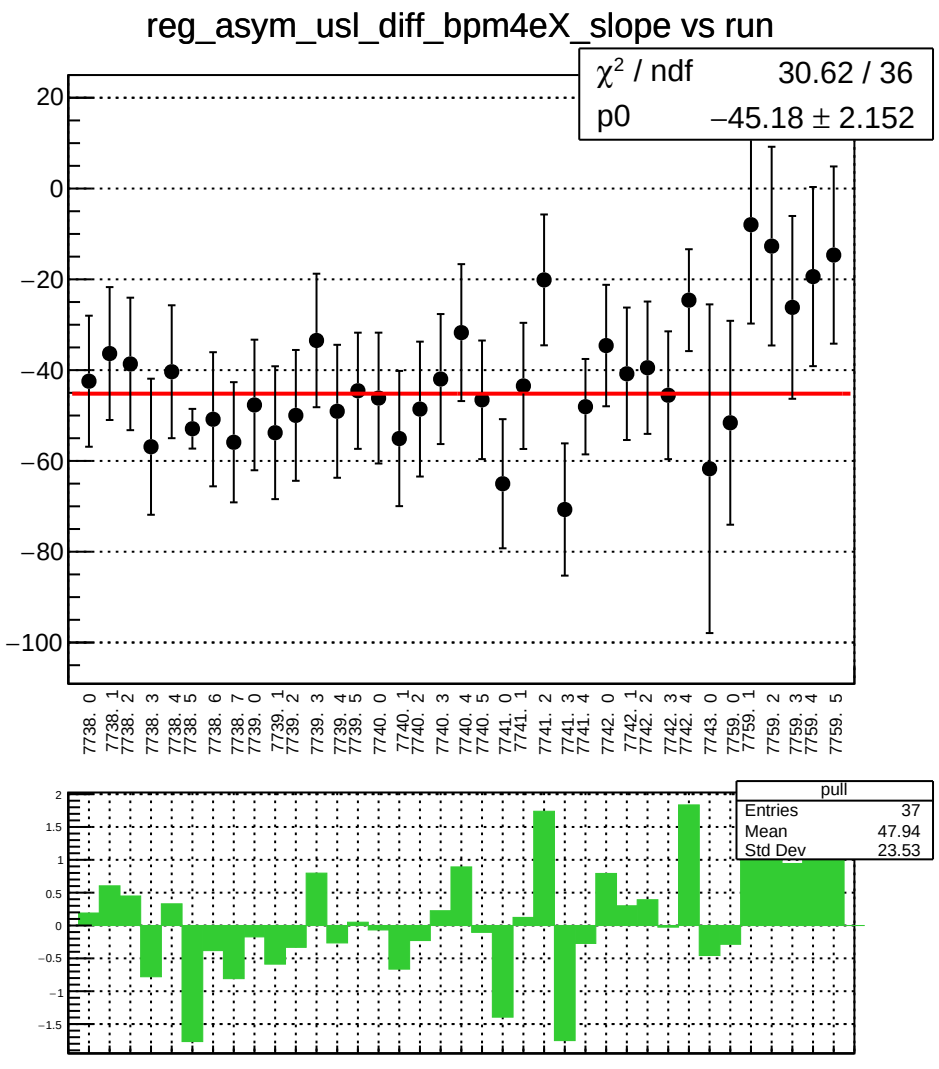

pull1D
Entries 37
Mean 0.003455
Std Dev 0.1986

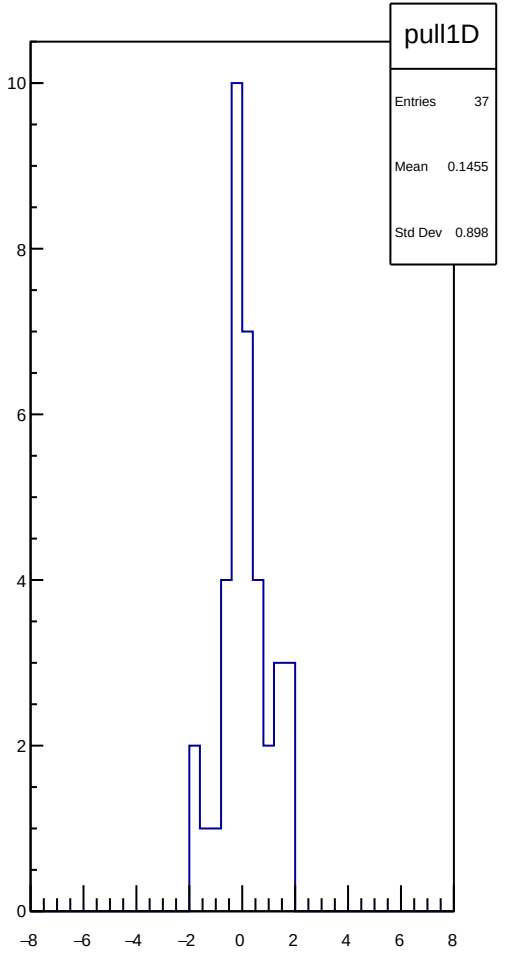

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 24.69 / 36
p0 −26.3 ± 2.186
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 48.68
Std Dev 24.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2

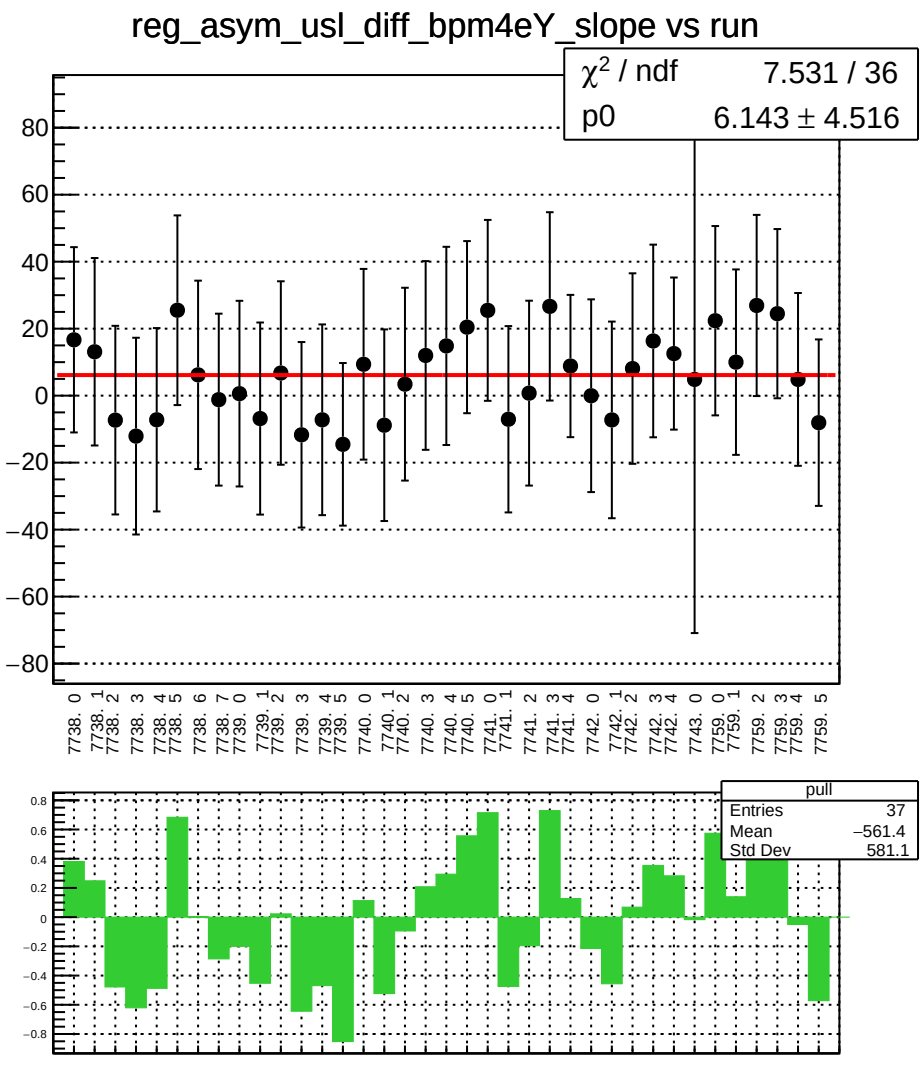

pull1D
Entries 37
Mean −0.09588
Std Dev 0.8113
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

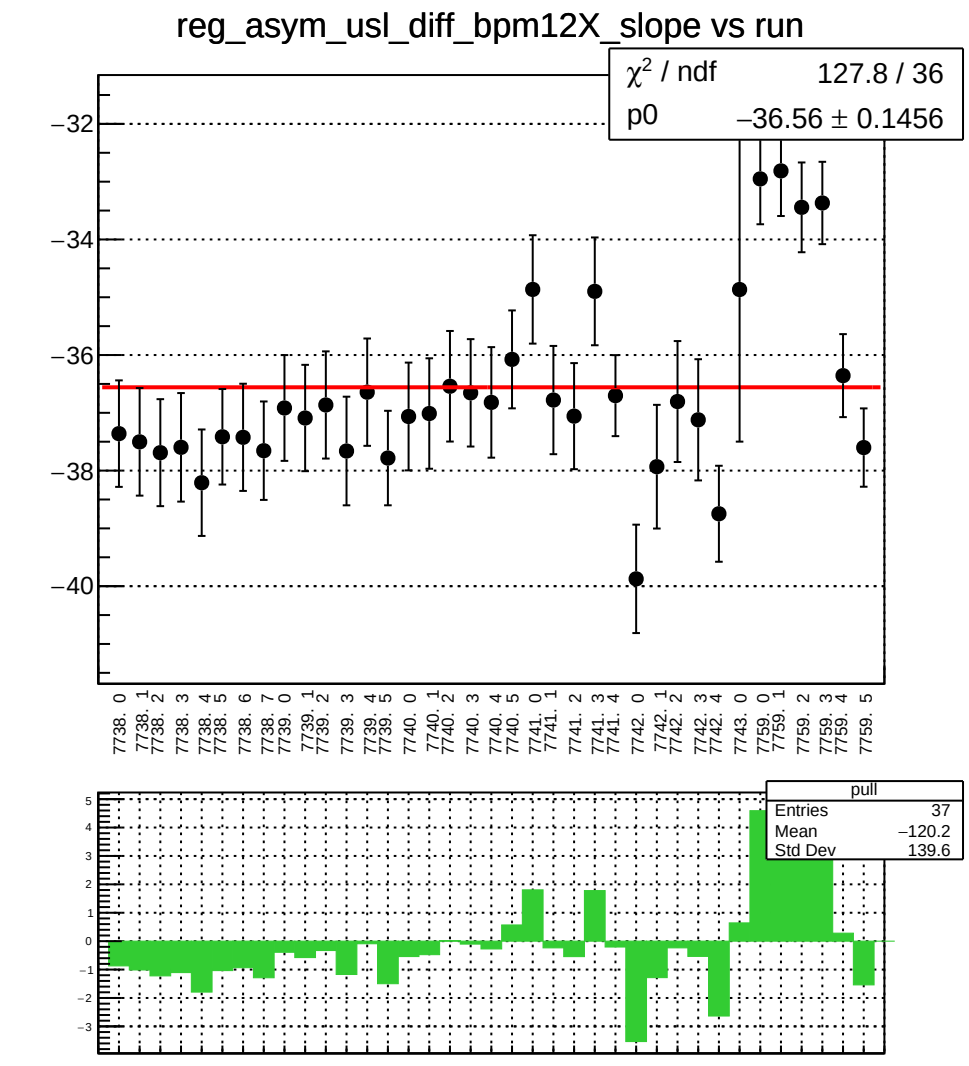

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 7.509 / 36
p0 8.152 ± 2.574
pull
Entries 37
Mean 275.7
Std Dev 258

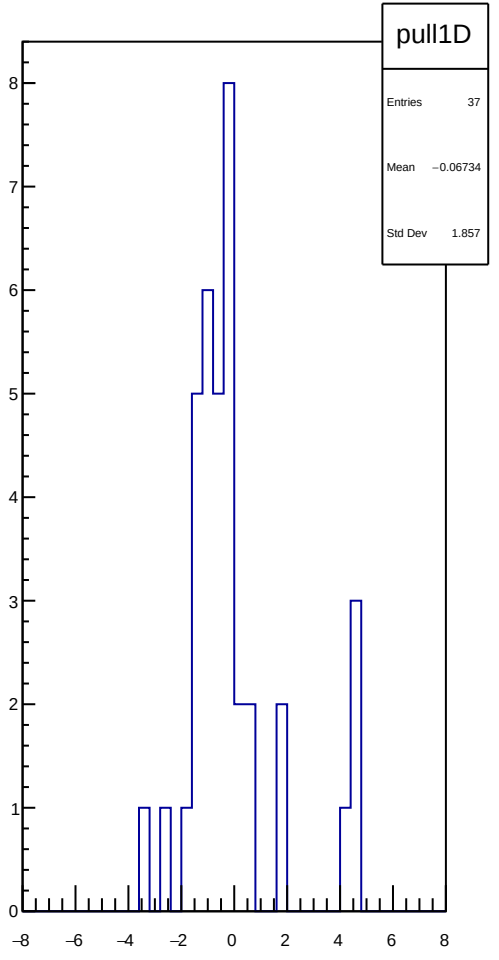

pull1D
Entries 37
Mean −0.003972
Std Dev 0.4505

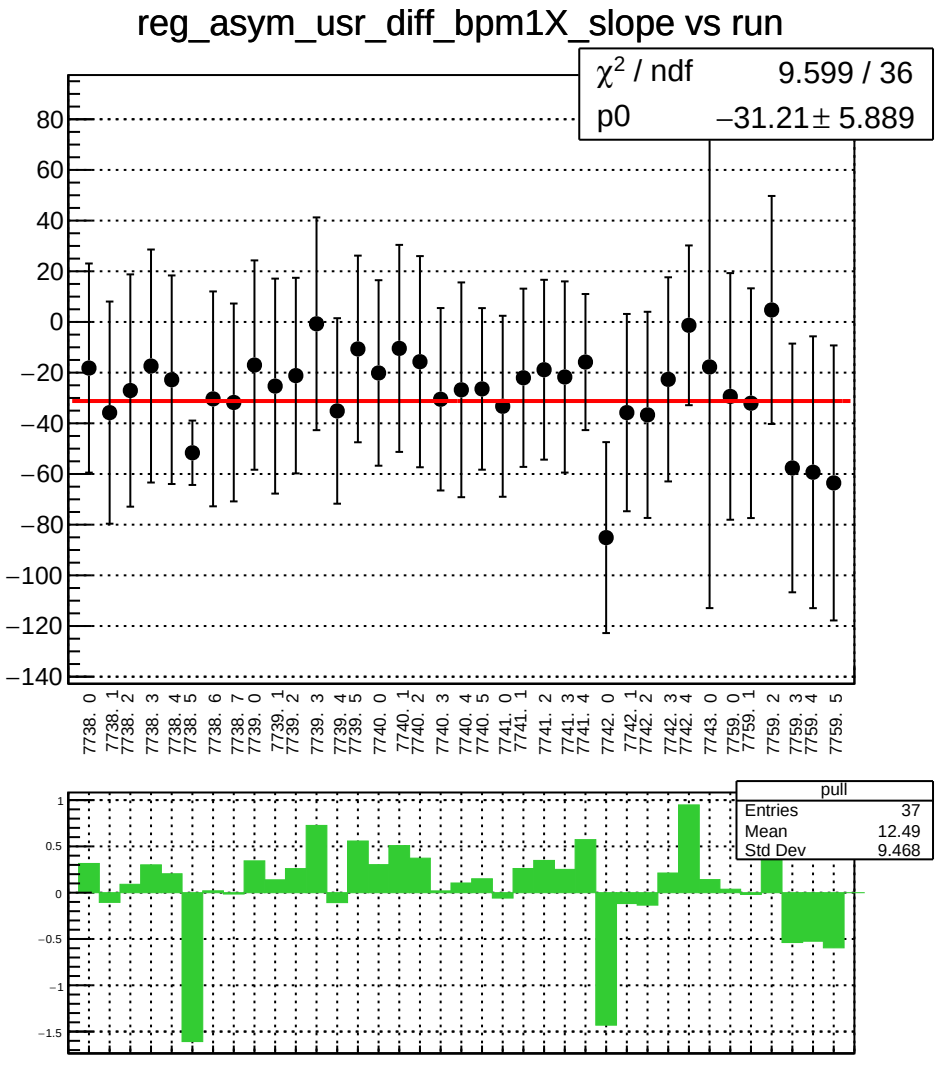

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 30.62 / 36
p0 −45.18 ± 2.152
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.94
Std Dev 23.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

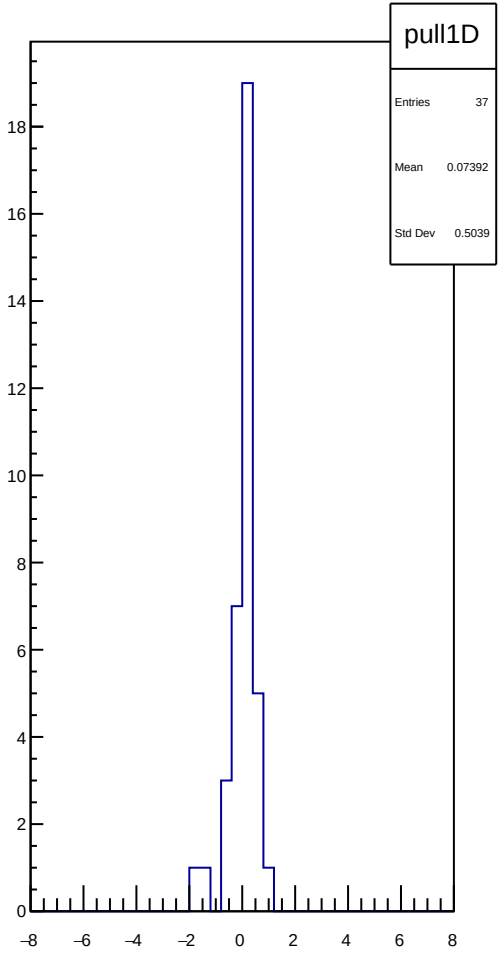

pull1D
Entries 37
Mean 0.1455
Std Dev 0.898
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

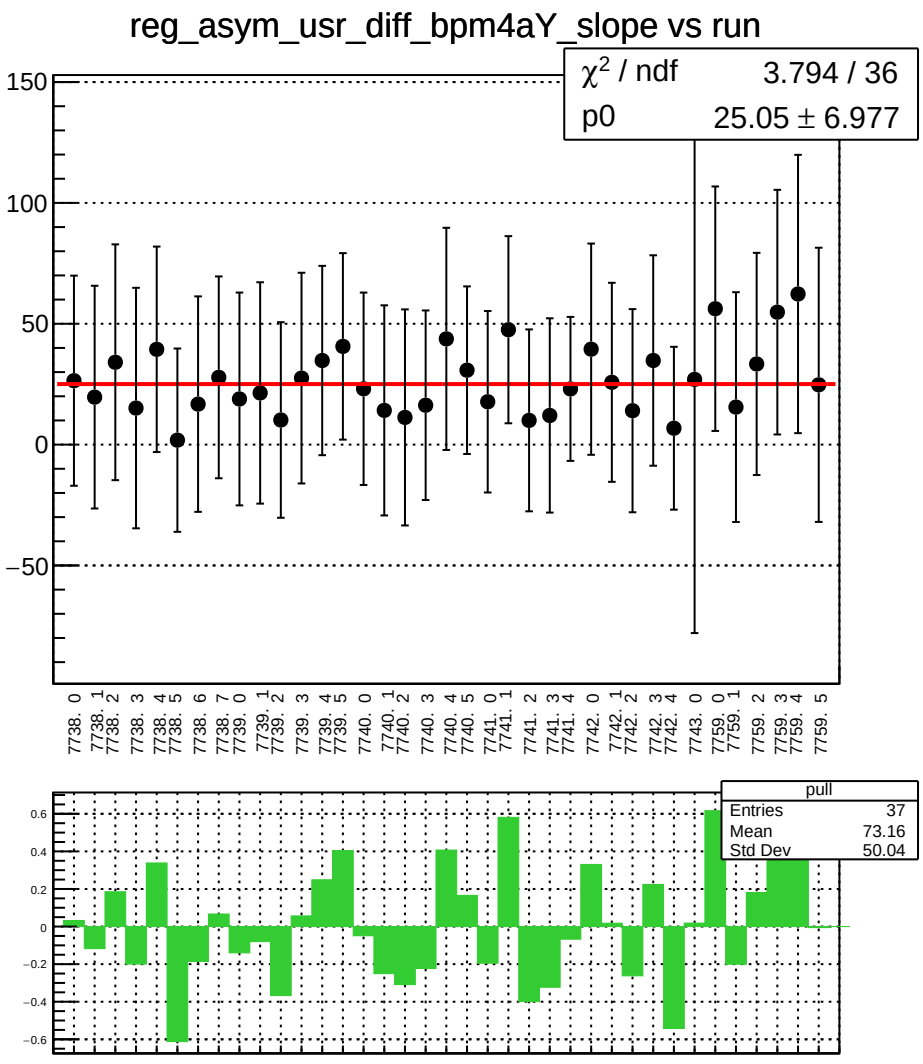

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 7.531 / 36
p0 6.143 ± 4.516
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −561.4
Std Dev 581.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean −0.002471
Std Dev 0.4511
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

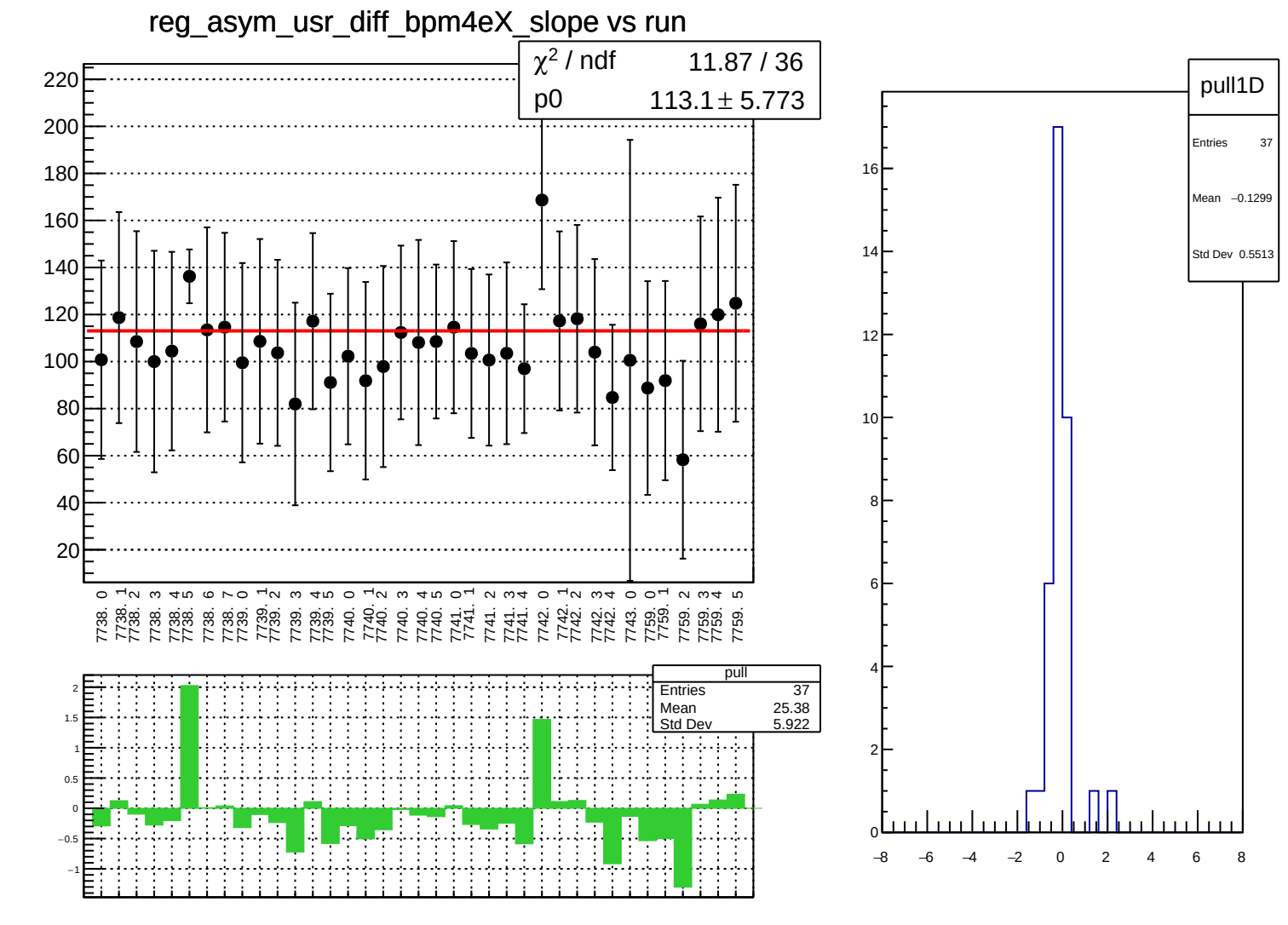

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 127.8 / 36
p0 −36.56 ± 0.1456
−32
−34
−36
−38
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −120.2
Std Dev 139.6
5
4
3
2
1
0
−1
−2
−3

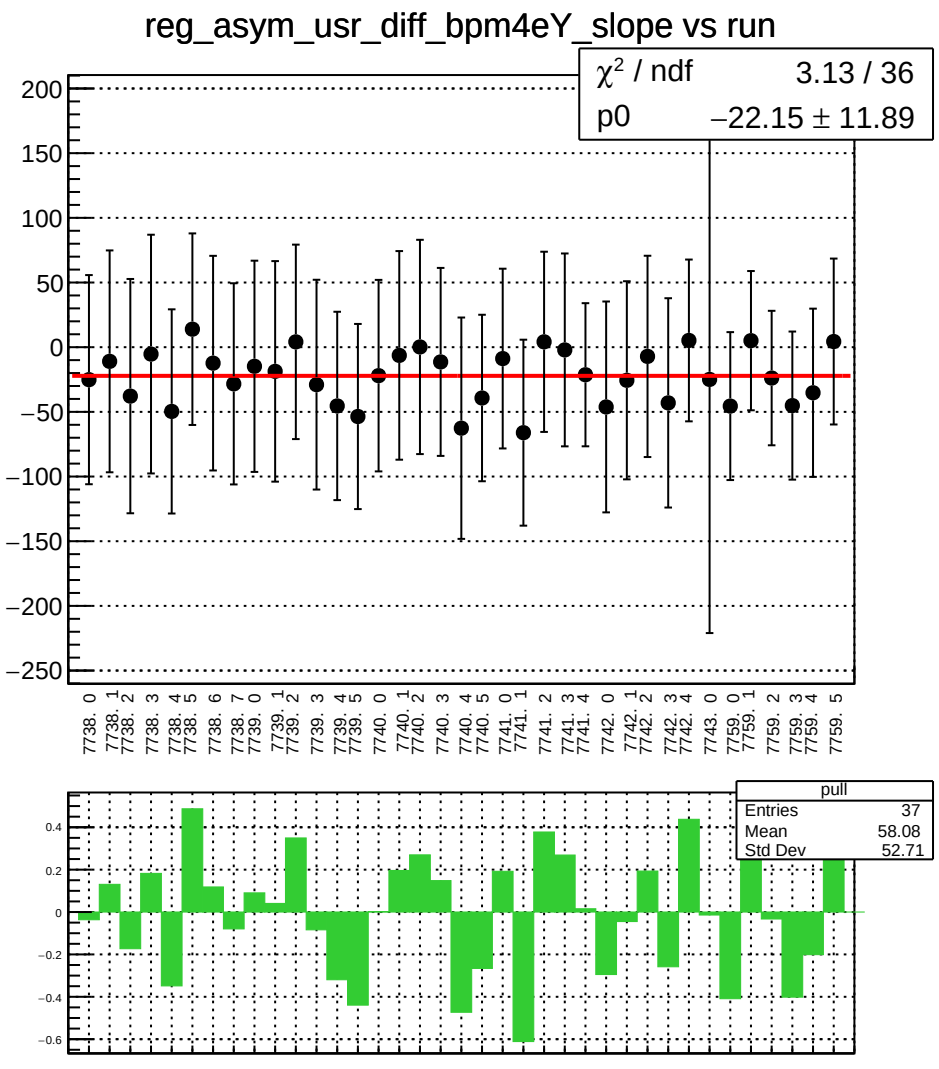

pull1D
Entries 37
Mean −0.06734
Std Dev 1.857
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

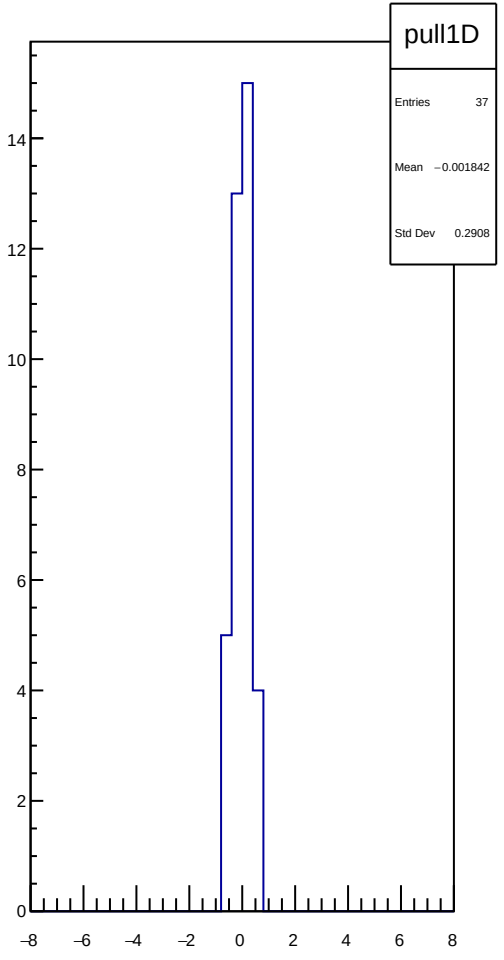

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 9.599 / 36
p0 −31.21 ± 5.889
pull
Entries 37
Mean 12.49
Std Dev 9.468

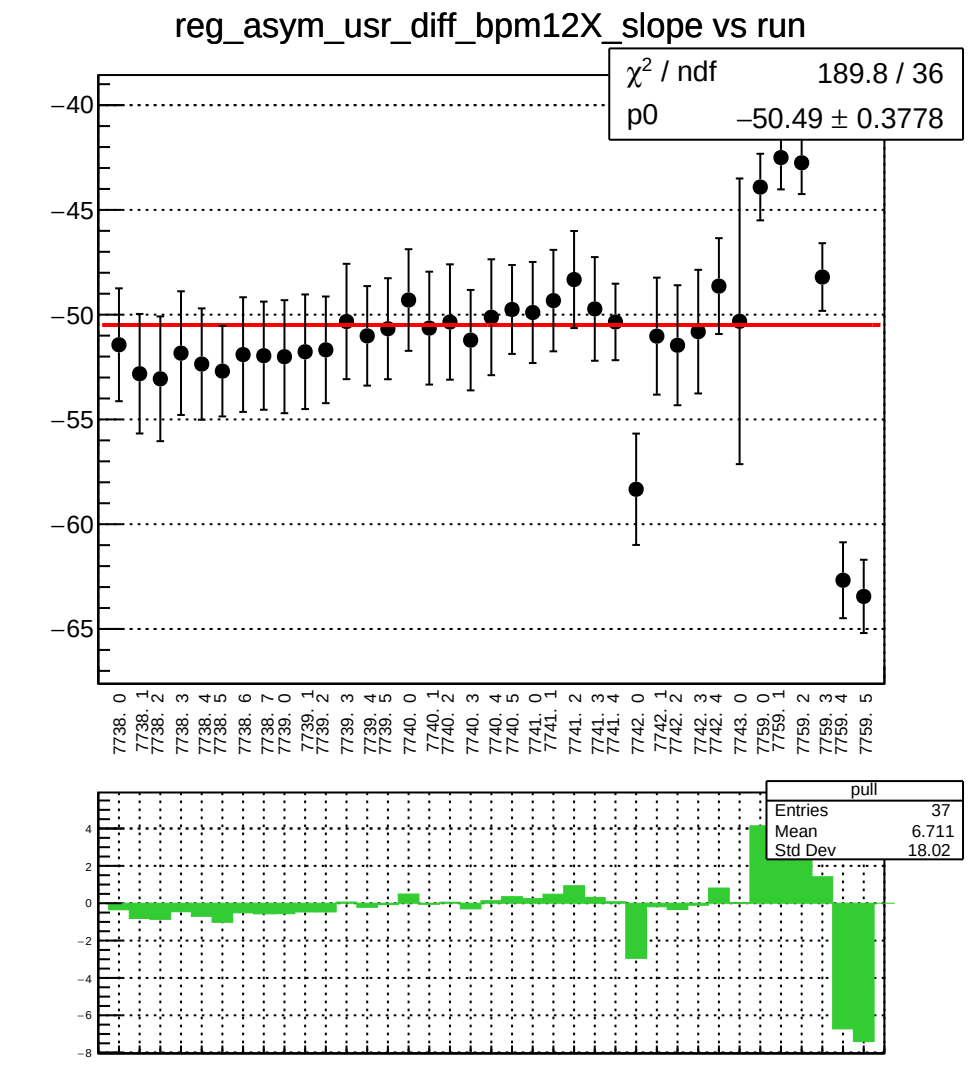

pull1D
Entries 37
Mean 0.07392
Std Dev 0.5039

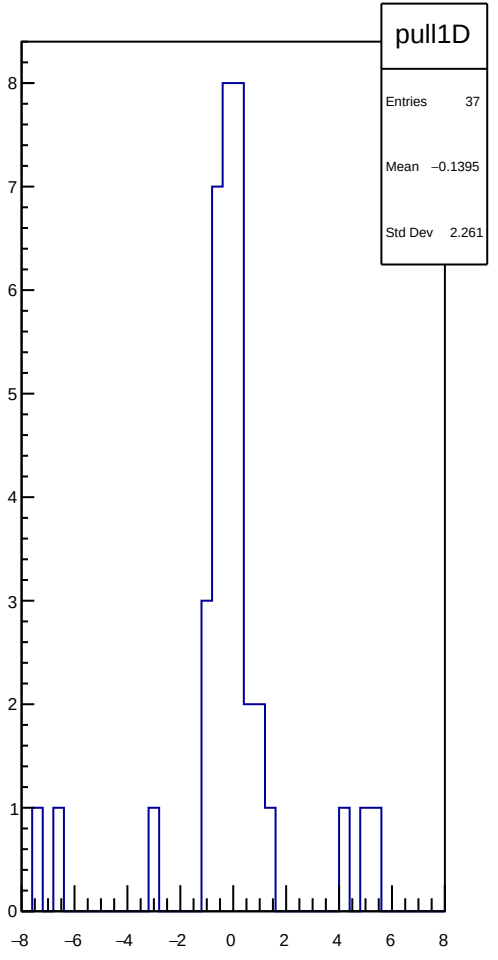

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 3.794 / 36
p0 25.05 ± 6.977
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 73.16
Std Dev 50.04
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.01574
Std Dev 0.3198
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

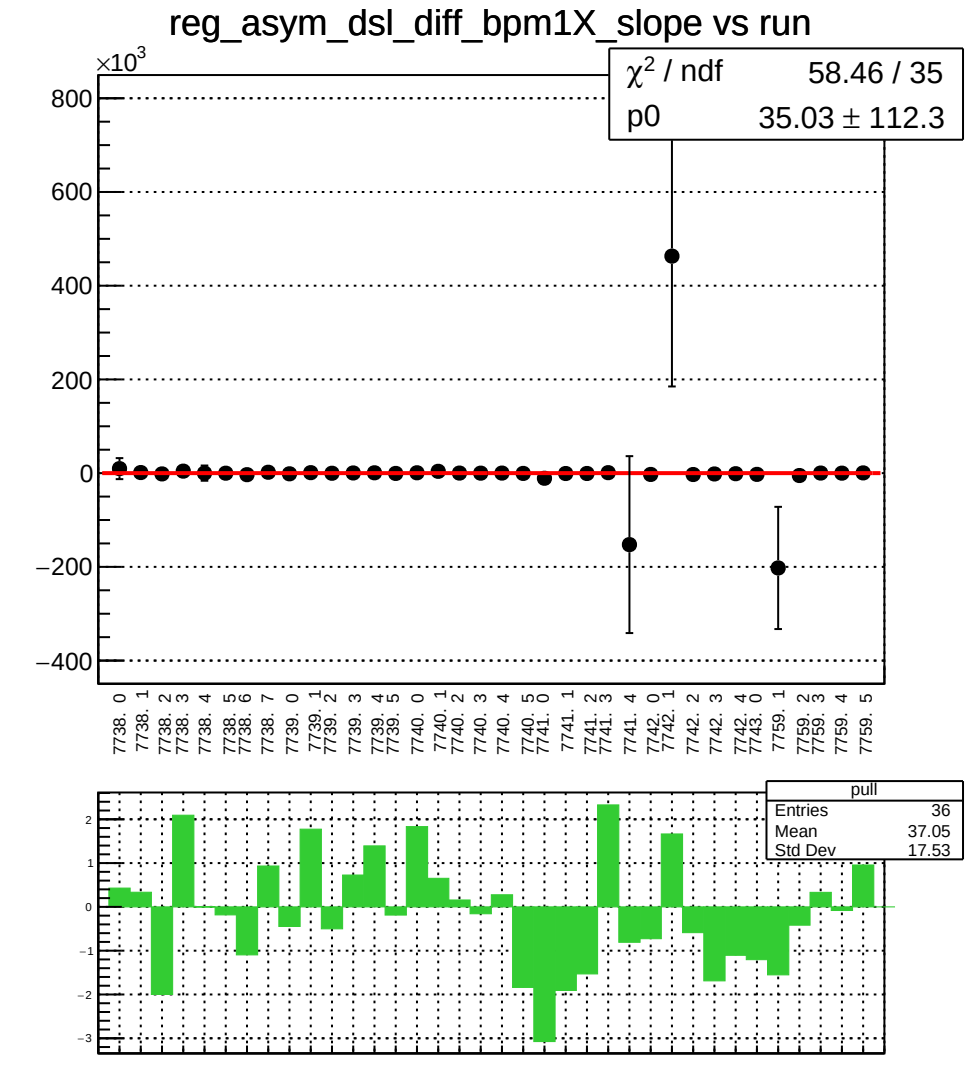

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 11.87 / 36
p0 113.1 ± 5.773
pull
Entries 37
Mean 25.38
Std Dev 5.922
pull1D
Entries 37
Mean −0.1299
Std Dev 0.5513

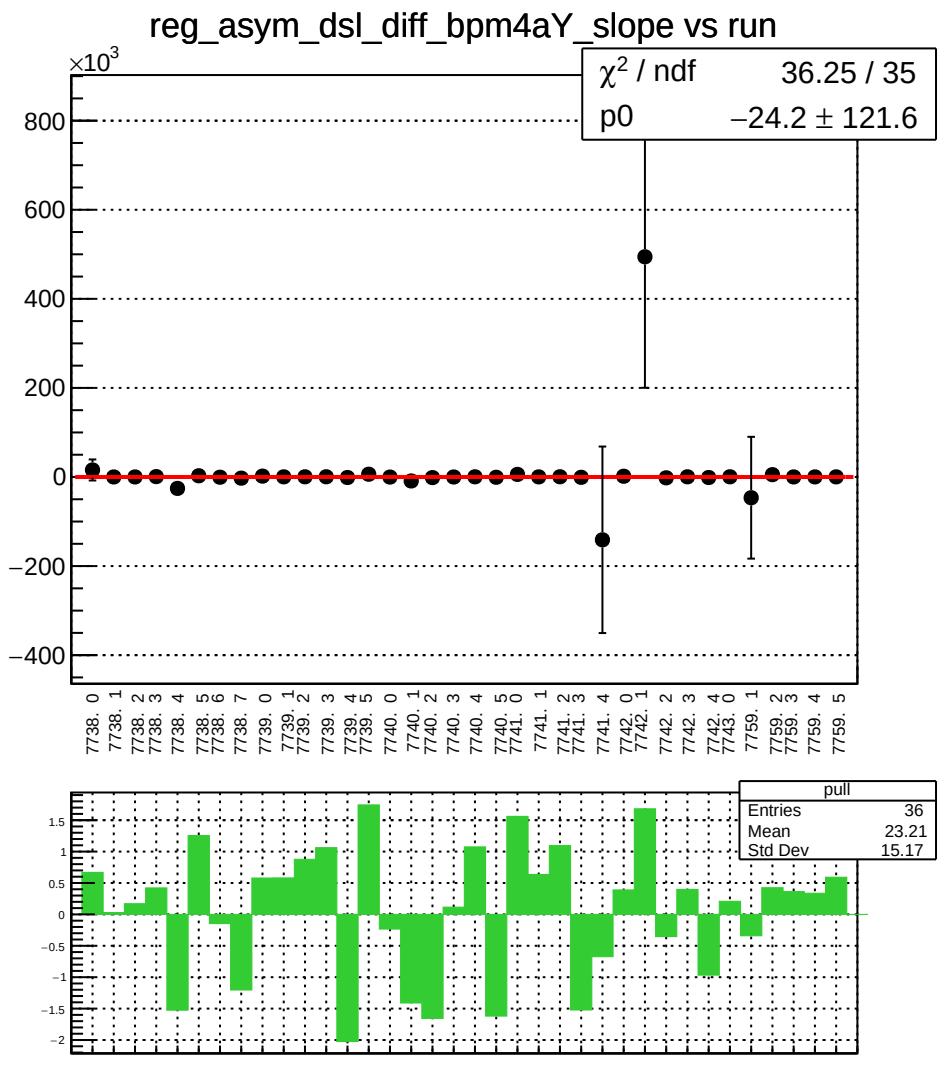

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 3.13 / 36
p0 −22.15 ± 11.89
pull
Entries 37
Mean 58.08
Std Dev 52.71

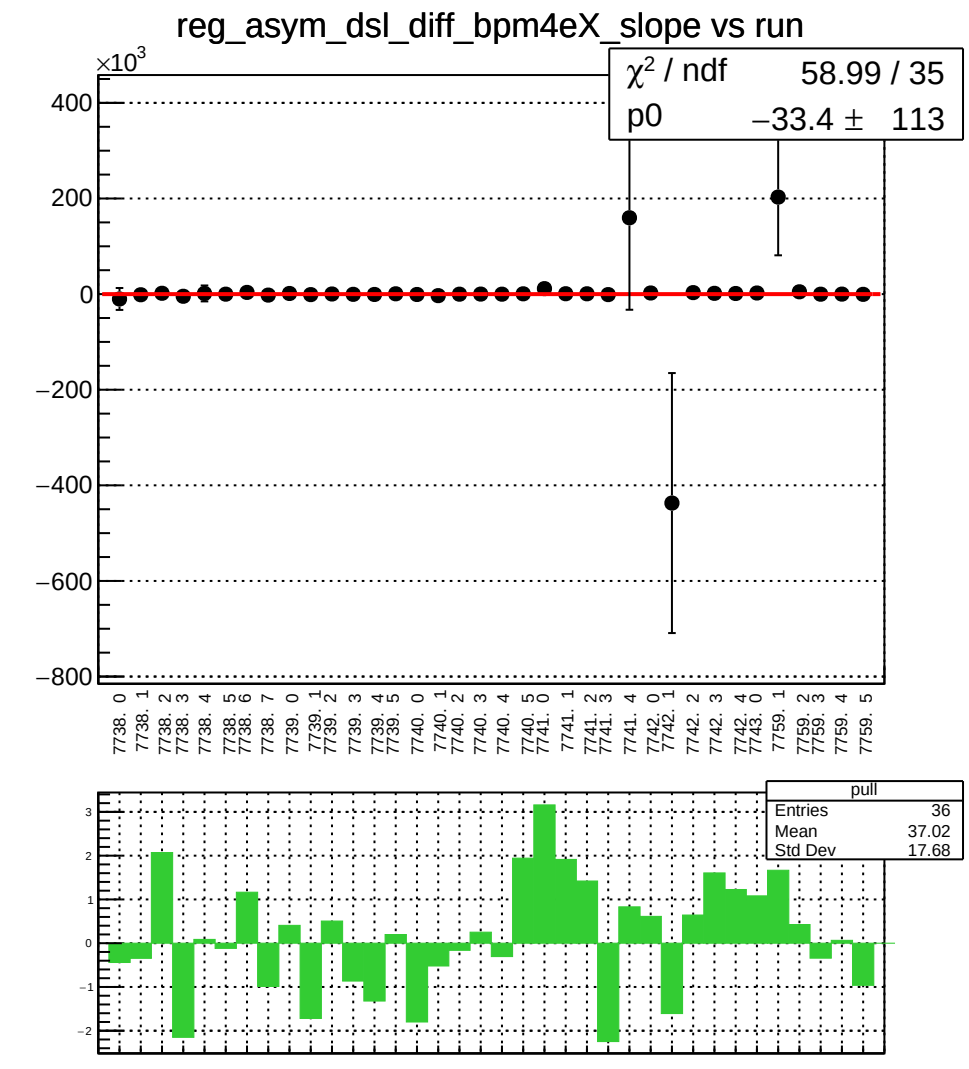

pull1D
Entries 37
Mean −0.001842
Std Dev 0.2908

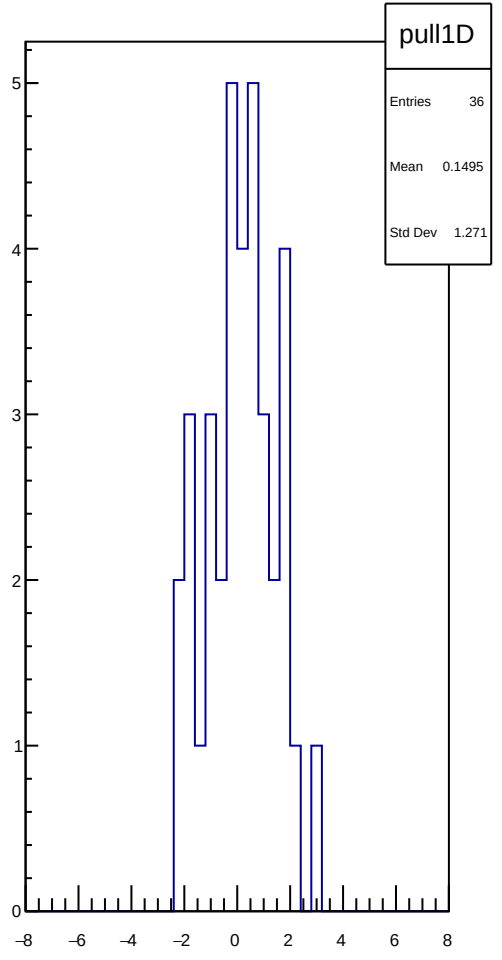

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 189.8 / 36
p0 −50.49 ± 0.3778
−40
−45
−50
−55
−60
−65
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 6.711
Std Dev 18.02
4
2
0
−2
−4
−6
−8

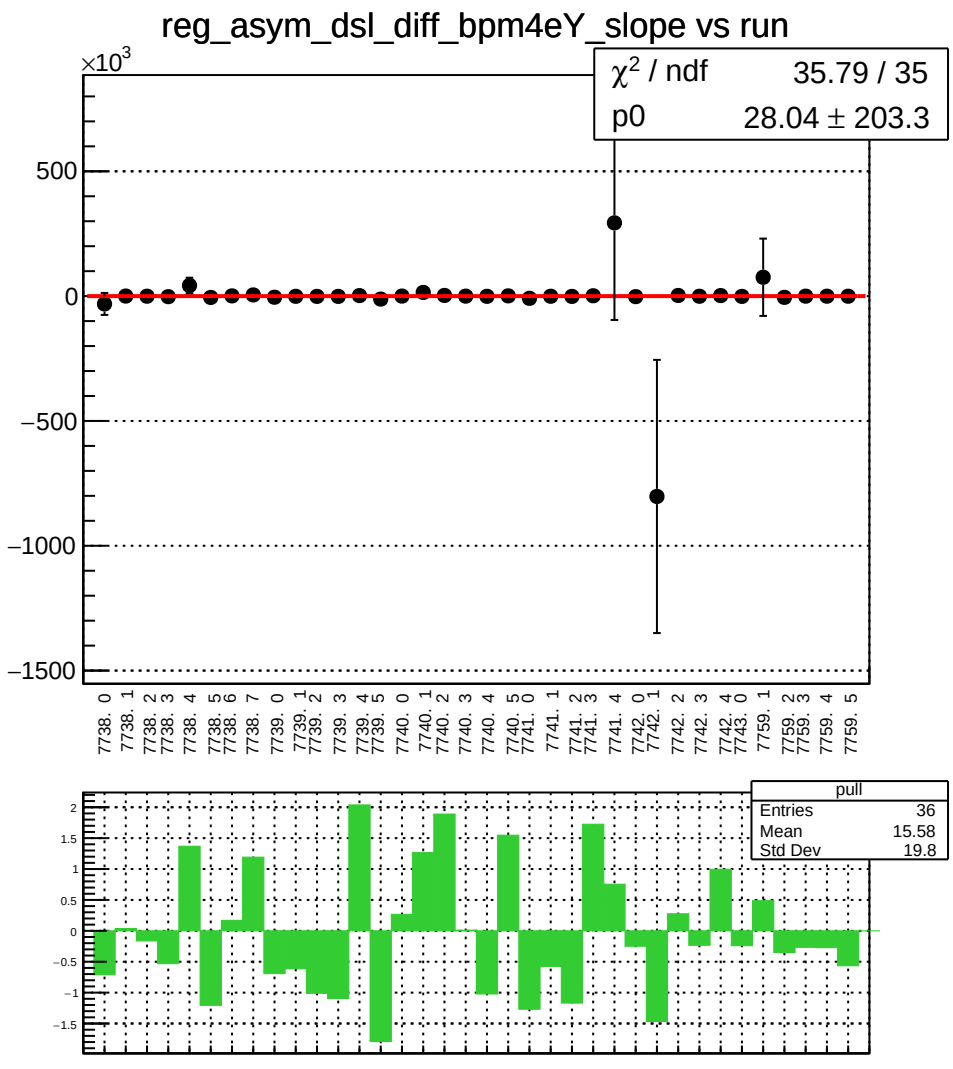

pull1D
Entries 37
Mean −0.1395
Std Dev 2.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

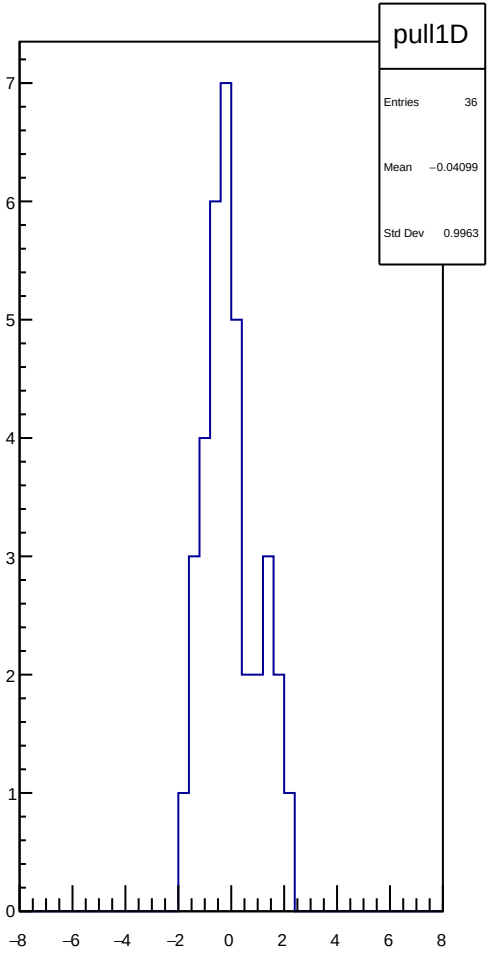

reg_asym_dsl_diff_bpm1X_slope vs run
×10^3
χ² / ndf 58.46 / 35
p0 35.03 ± 112.3
800
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.05
Std Dev 17.53
2
1
0
−1
−2
−3
pull1D
Entries 36
Mean −0.1448
Std Dev 1.266
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

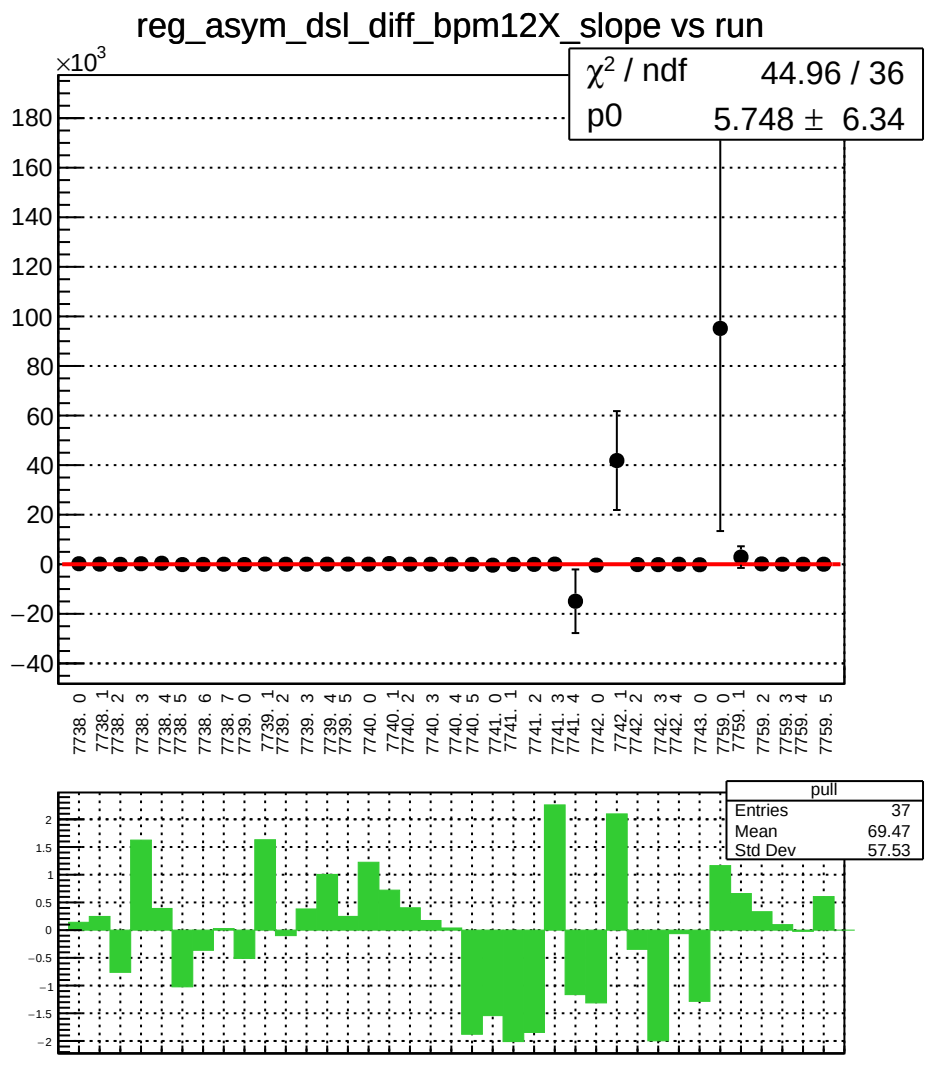

reg_asym_dsl_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 36.25 / 35
p0 −24.2 ± 121.6
800
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23.21
Std Dev 15.17
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 36
Mean 0.07179
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

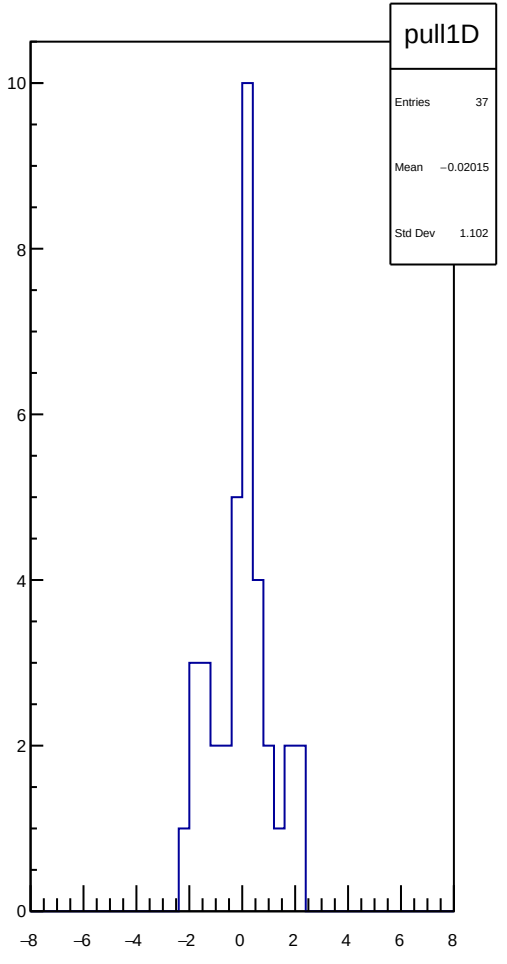

reg_asym_dsl_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 58.99 / 35
p0 −33.4 ± 113
400
200
0
−200
−400
−600
−800
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.02
Std Dev 17.68
3
2
1
0
−1
−2

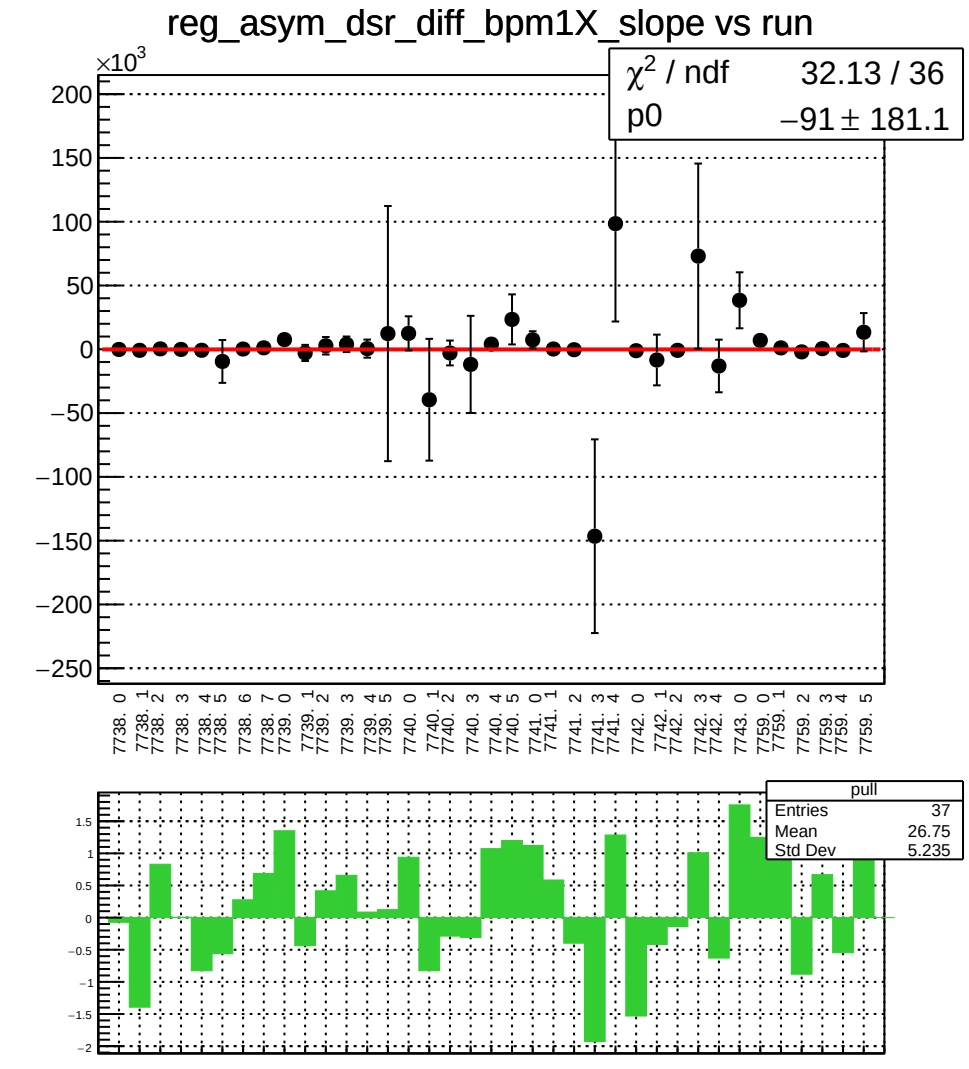

pull1D
Entries 36
Mean 0.1495
Std Dev 1.271
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

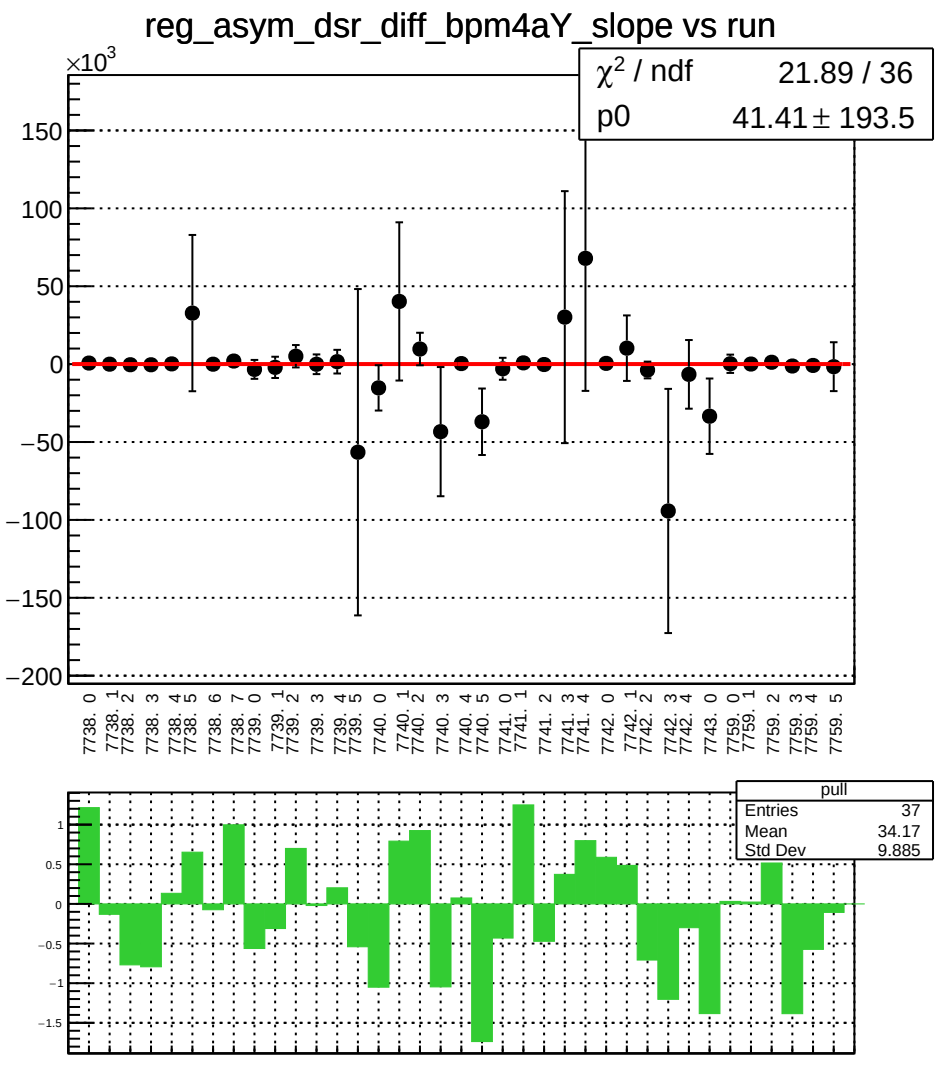

reg_asym_dsl_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 35.79 / 35
p0 28.04 ± 203.3
500
0
−500
−1000
−1500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.58
Std Dev 19.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

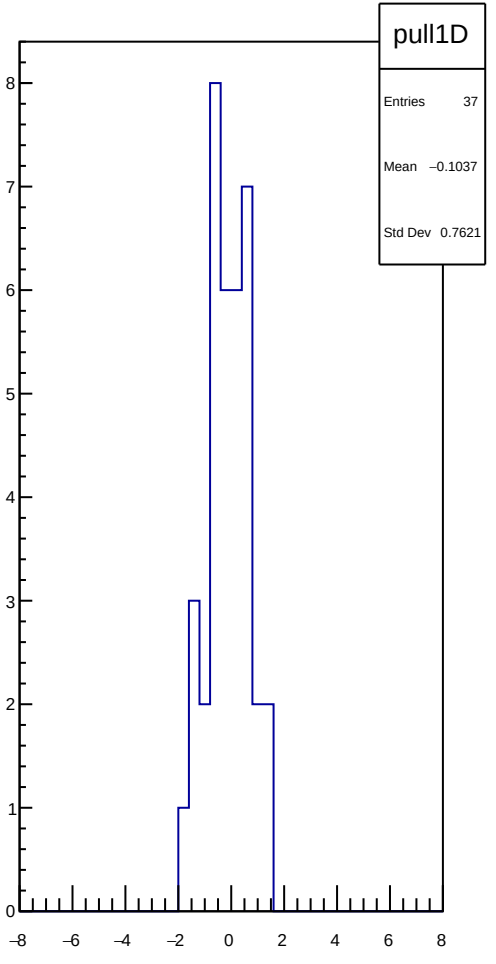

pull1D
Entries 36
Mean −0.04099
Std Dev 0.9963
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

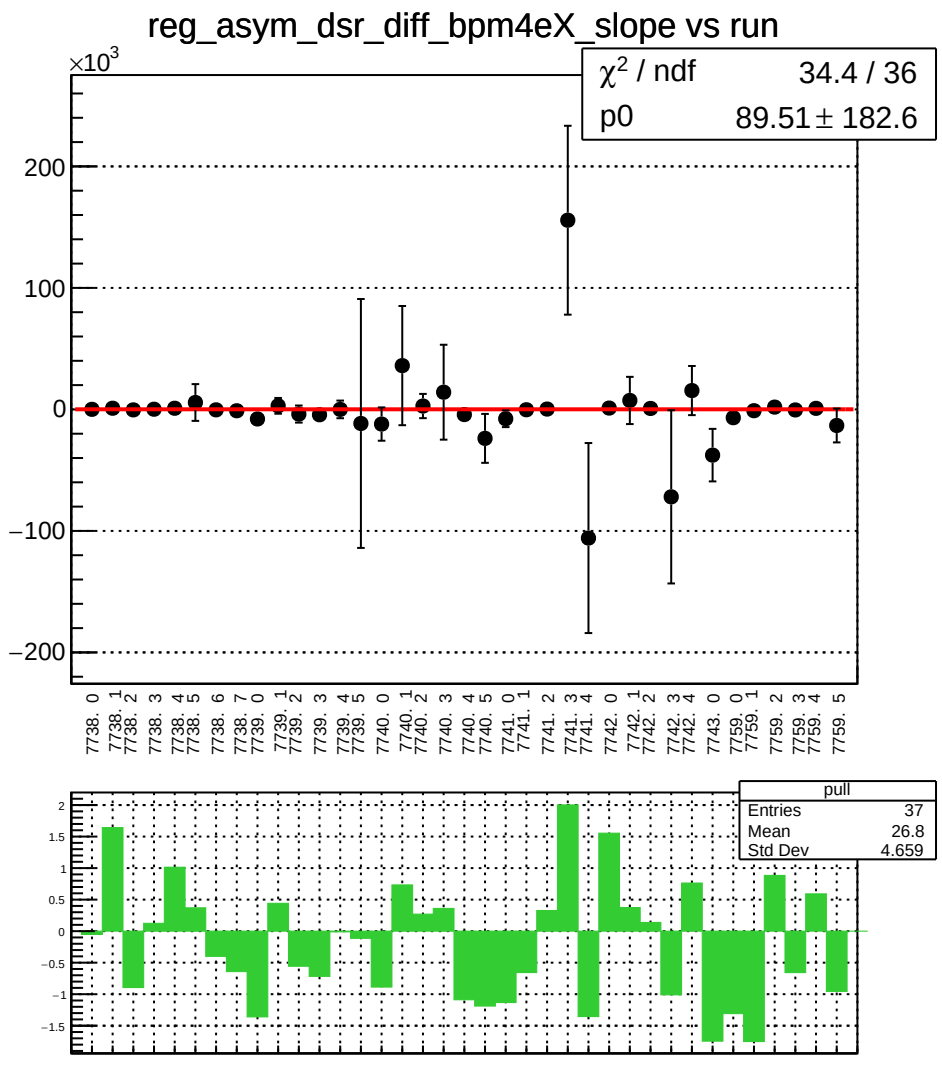

reg_asym_dsl_diff_bpm12X_slope vs run
×10^3
χ² / ndf 44.96 / 36
p0 5.748 ± 6.34
180
160
140
120
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 69.47
Std Dev 57.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

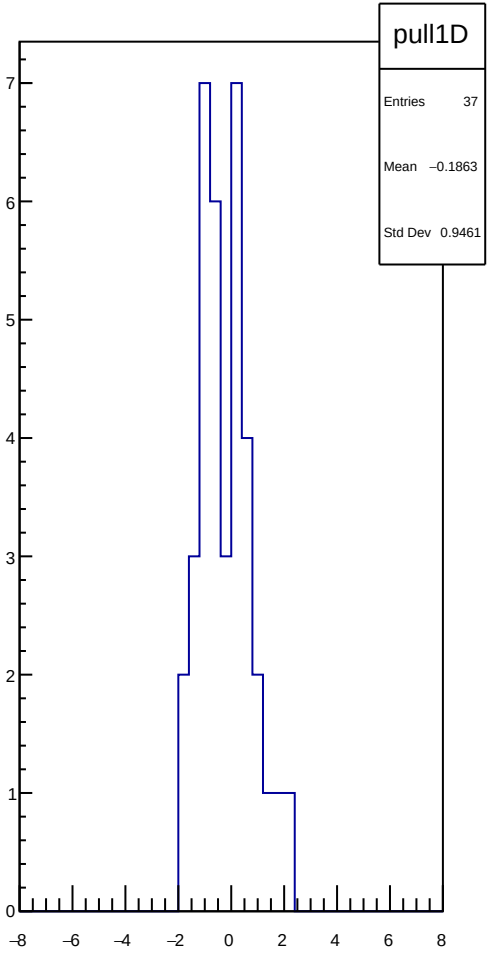

pull1D
Entries 37
Mean −0.02015
Std Dev 1.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

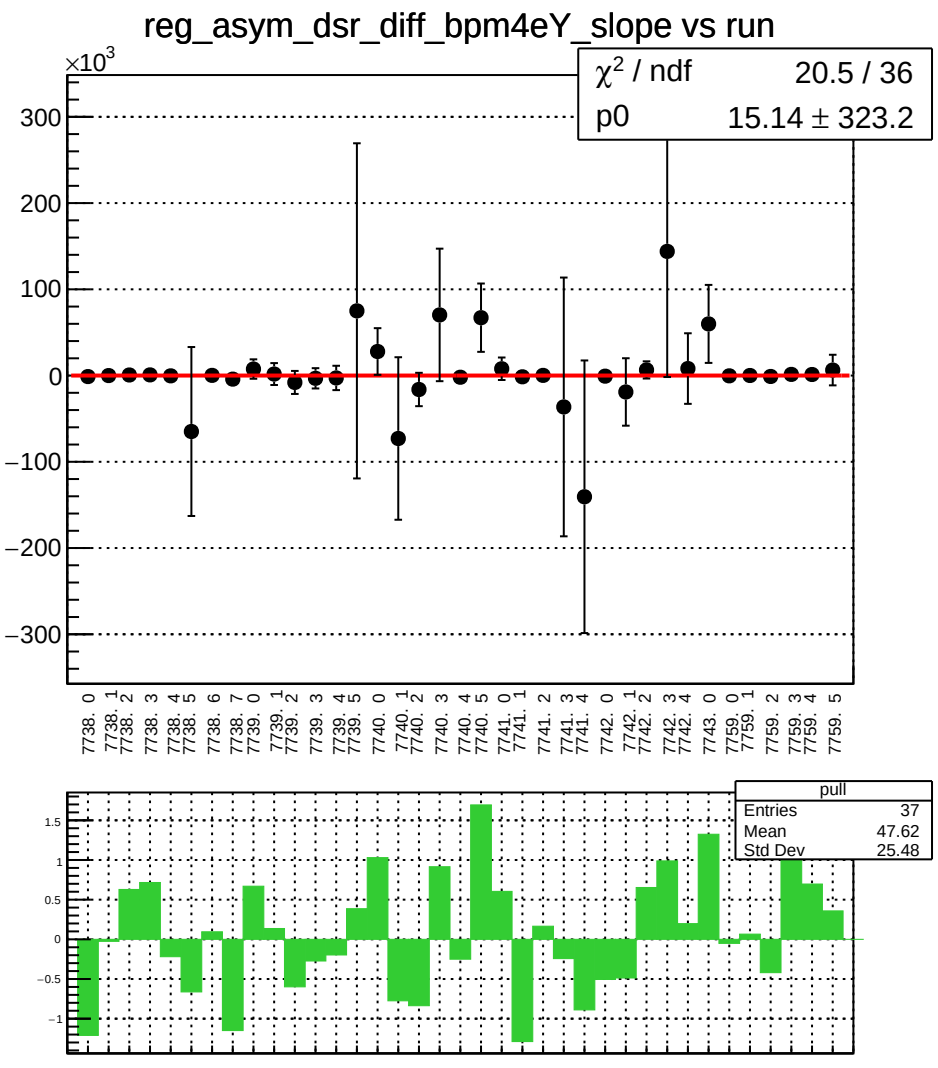

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.13 / 36
p0 −91 ± 181.1
200
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.75
Std Dev 5.235
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.1823
Std Dev 0.9139
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

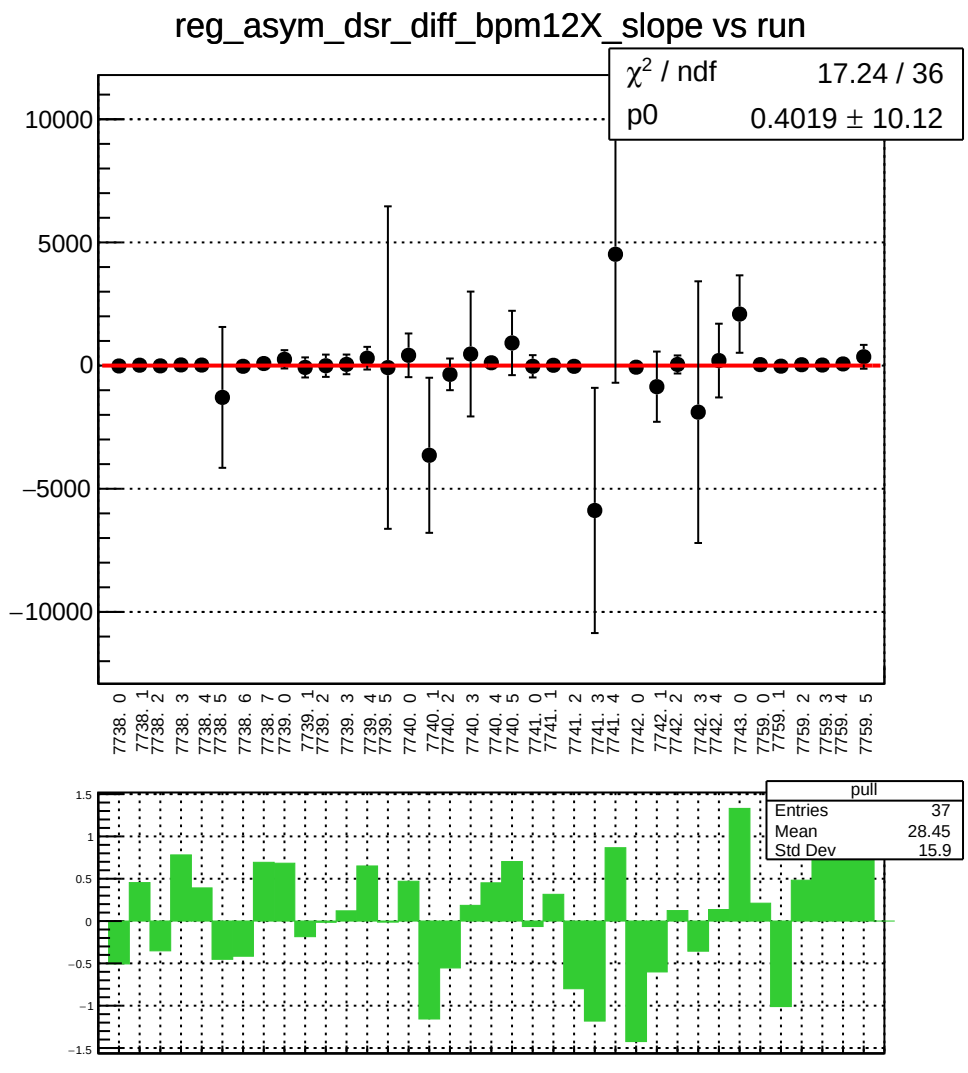

reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 21.89 / 36
p0 41.41 ± 193.5
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.17
Std Dev 9.885
1
0.5
0
−0.5
−1
−1.5

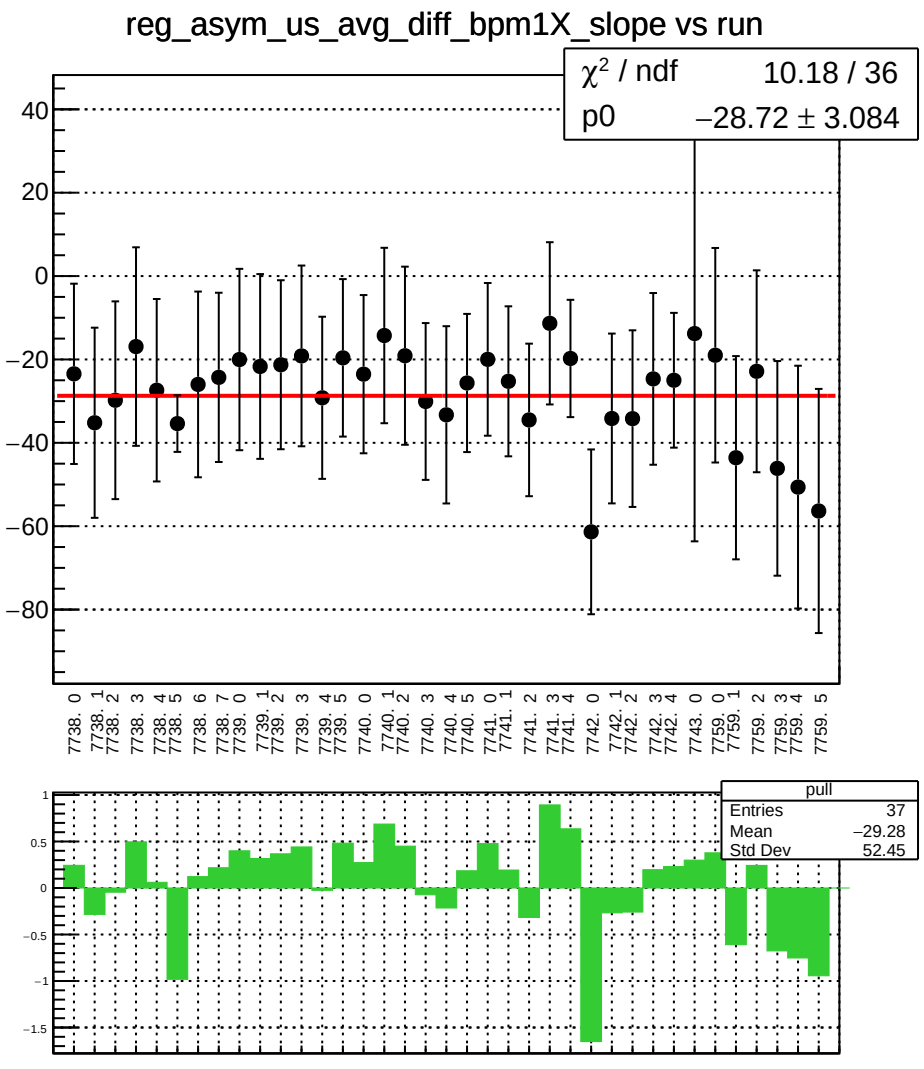

pull1D
Entries 37
Mean −0.1037
Std Dev 0.7621
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

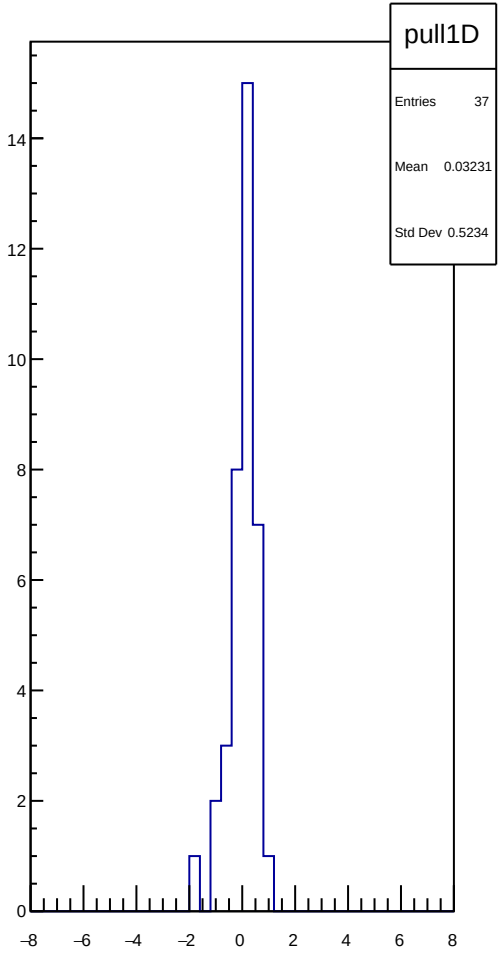

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 34.4 / 36
p0 89.51 ± 182.6
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.8
Std Dev 4.659
2
1.5
1
0.5
0
−0.5
−1
−1.5

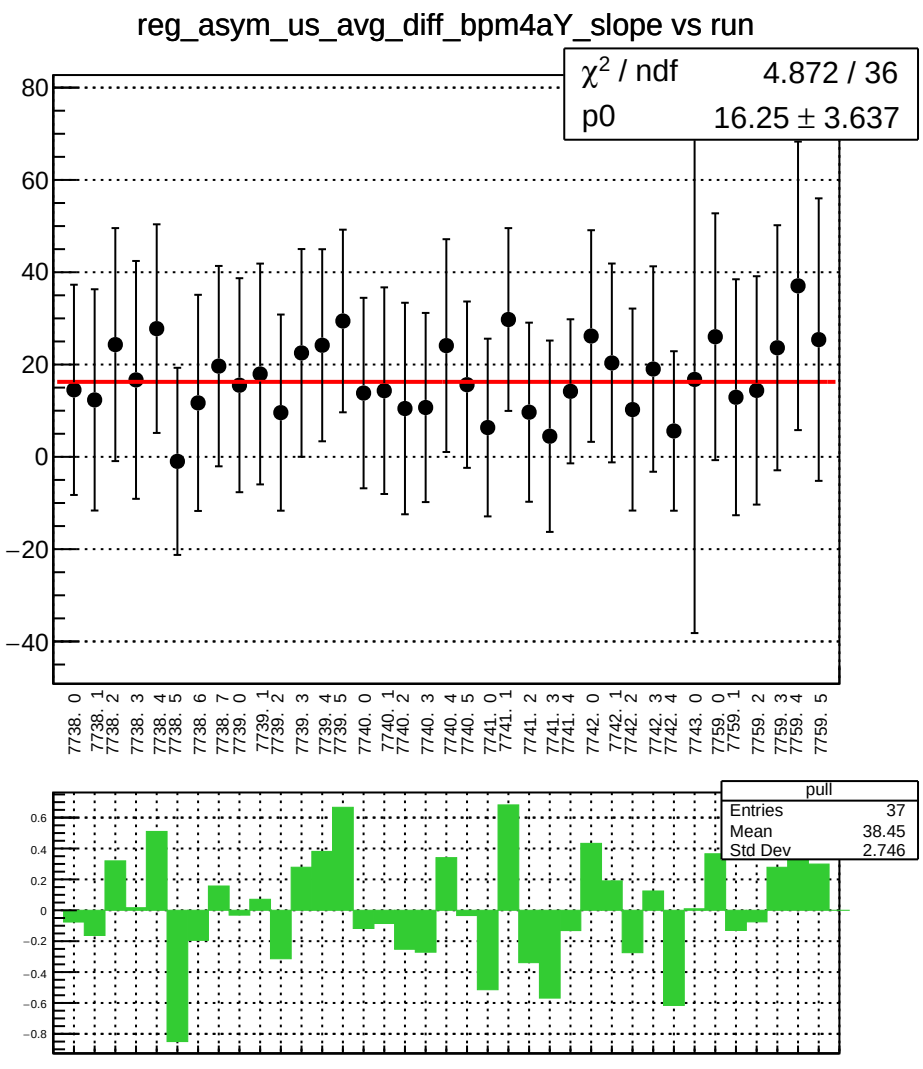

pull1D
Entries 37
Mean −0.1863
Std Dev 0.9461
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

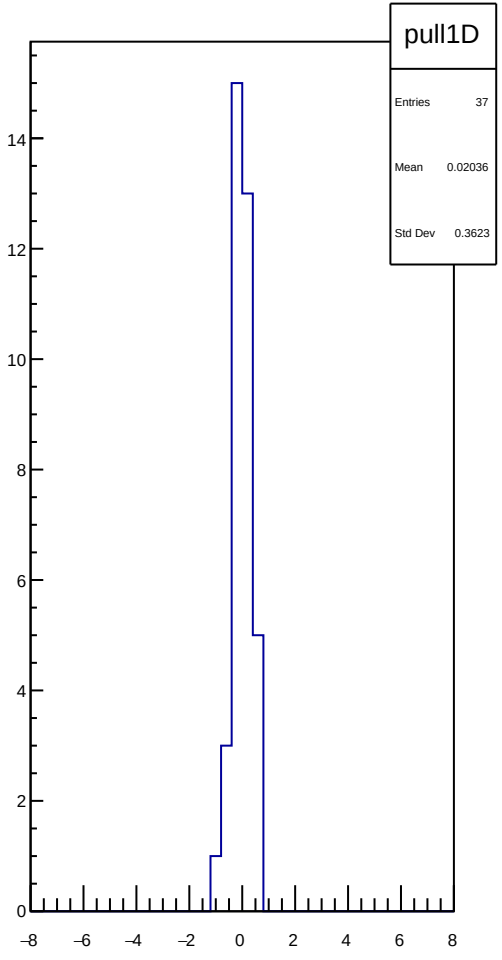

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 20.5 / 36
p0 15.14 ± 323.2
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.62
Std Dev 25.48
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.06896
Std Dev 0.7412
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

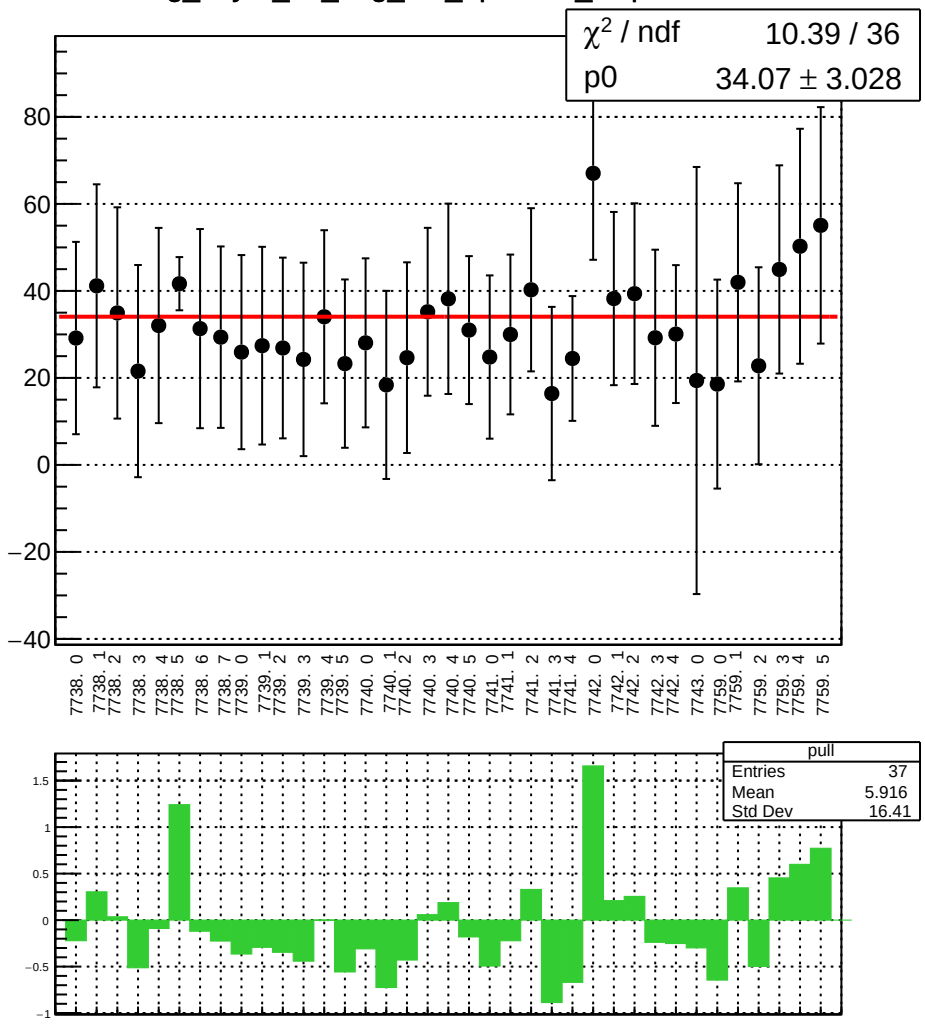

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 17.24 / 36
p0 0.4019 ± 10.12
10000
5000
0
−5000
−10000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 28.45
Std Dev 15.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.0764
Std Dev 0.6783
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

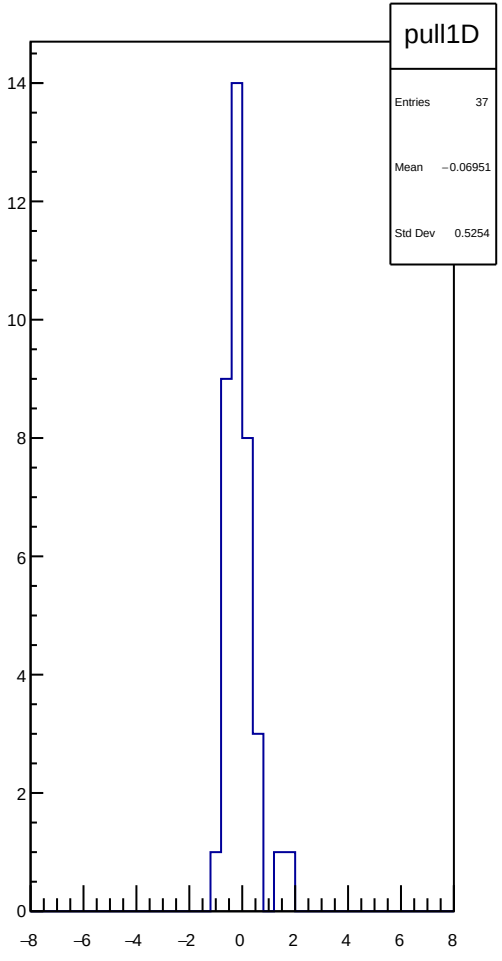

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 10.18 / 36
p0 −28.72 ± 3.084
pull
Entries 37
Mean −29.28
Std Dev 52.45

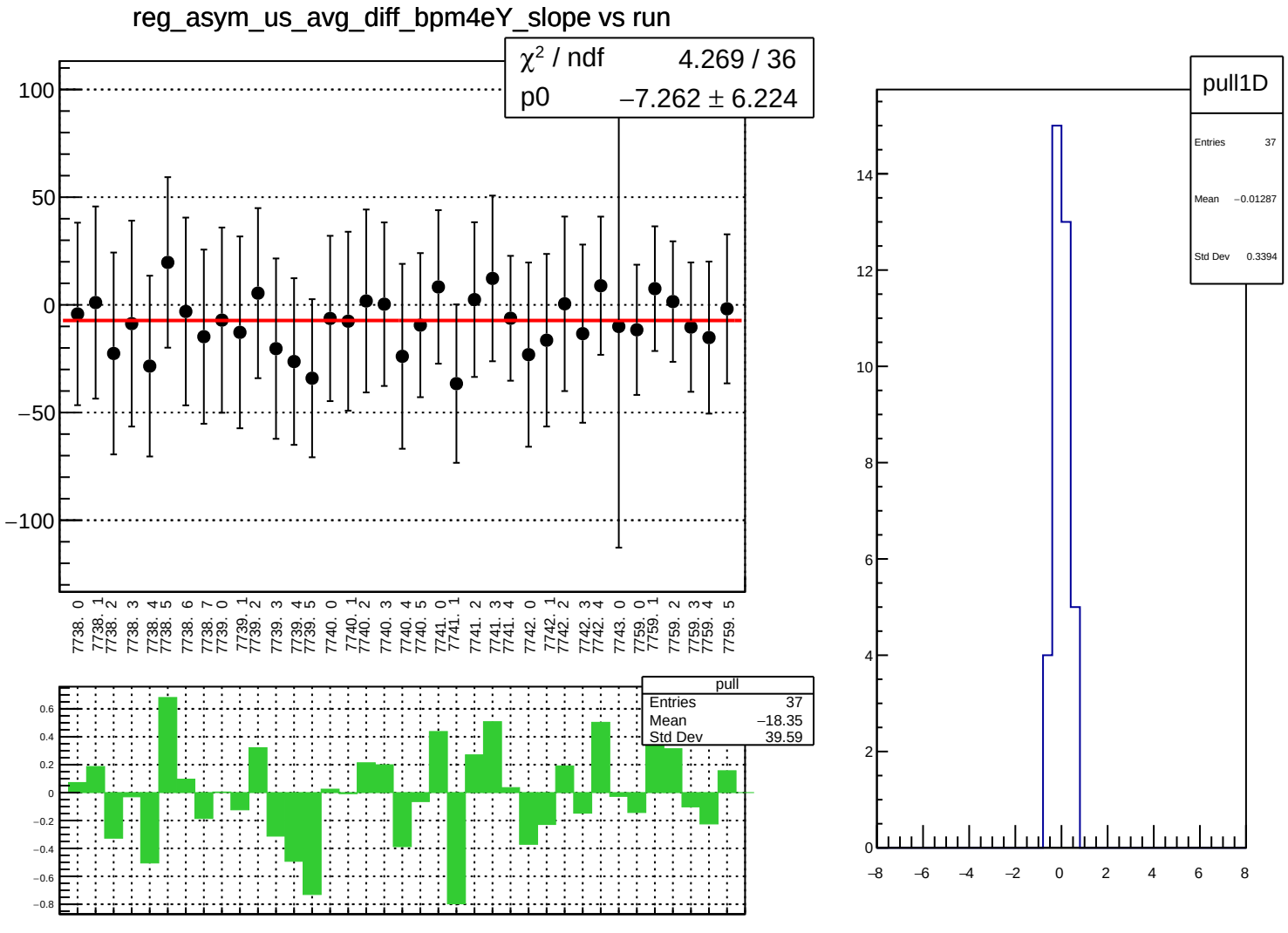

pull1D
Entries 37
Mean 0.03231
Std Dev 0.5234

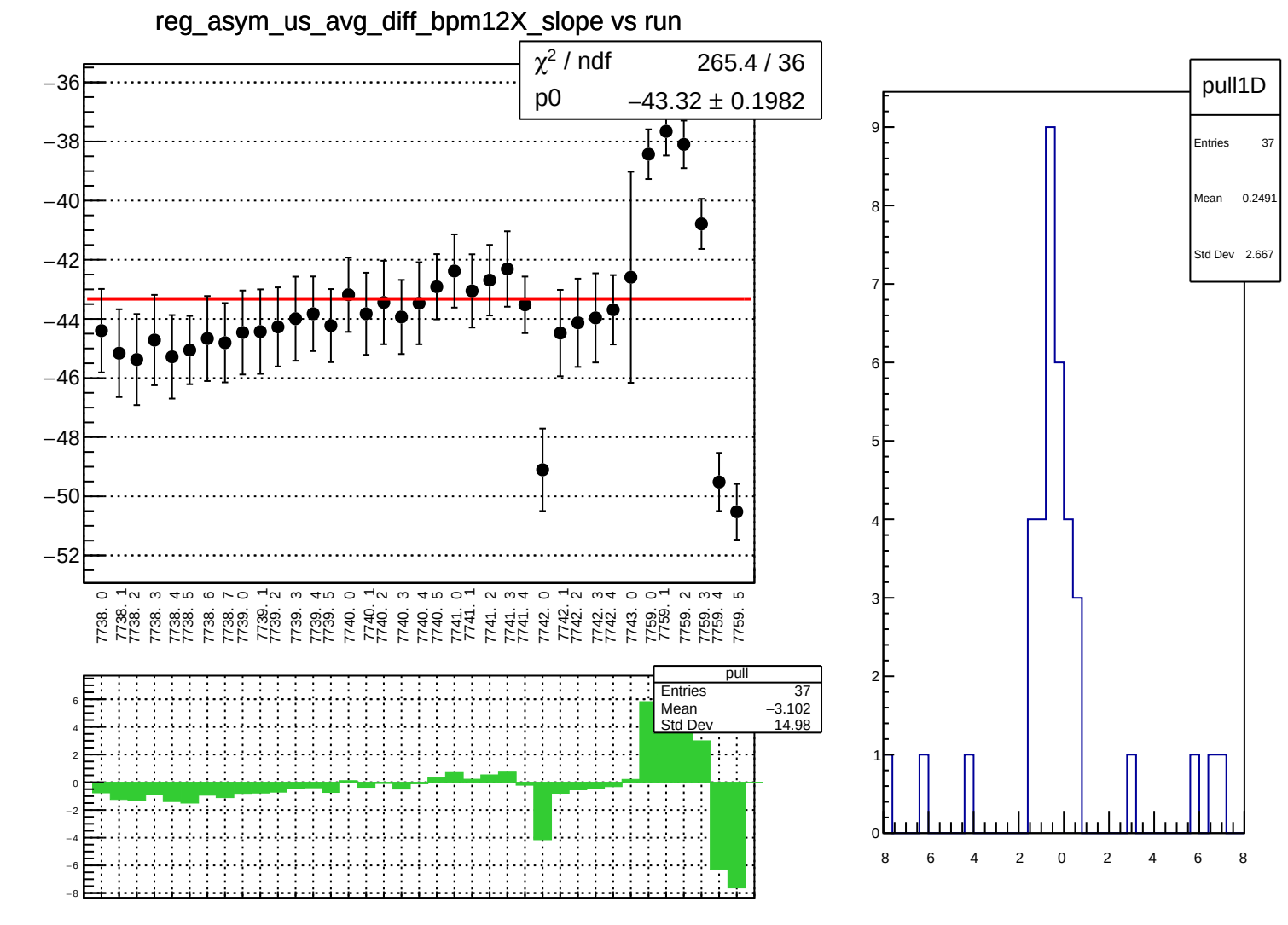

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.872 / 36
p0 16.25 ± 3.637
pull
Entries 37
Mean 38.45
Std Dev 2.746

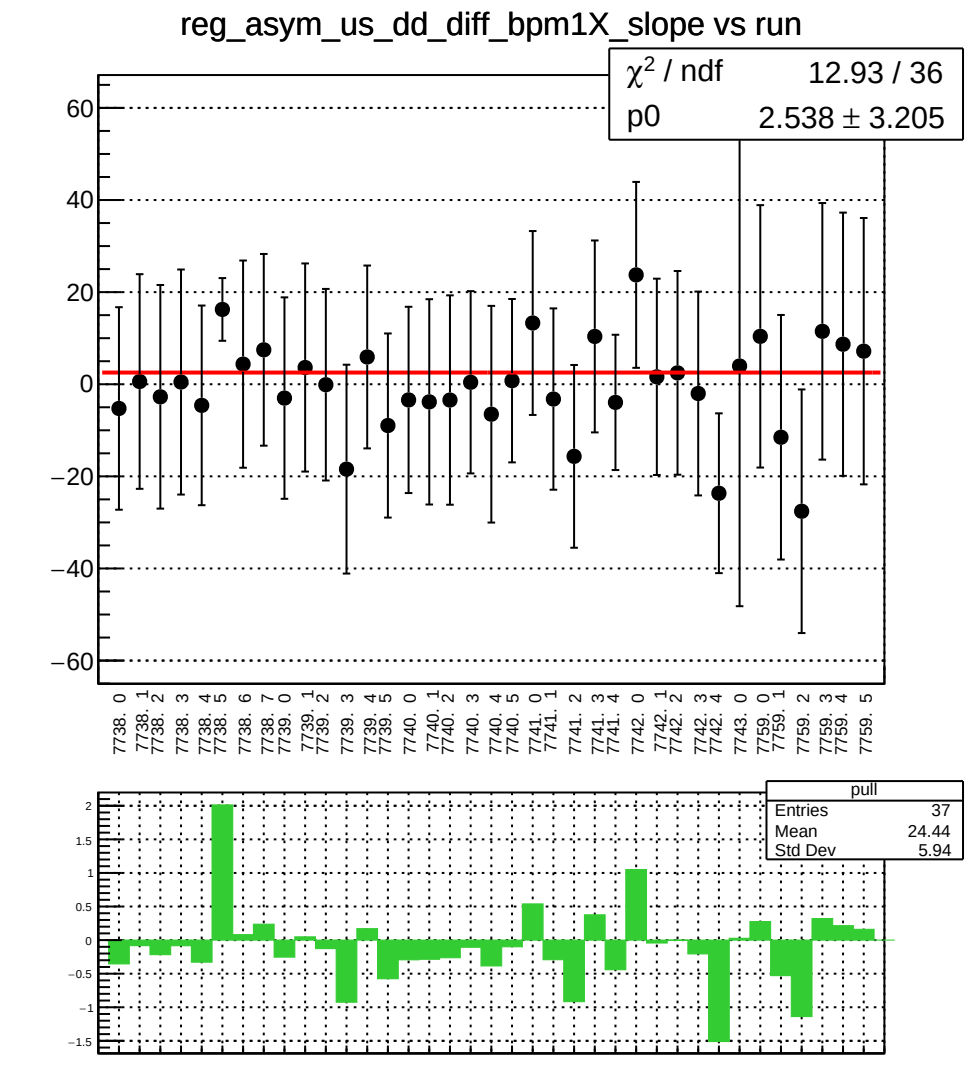

pull1D
Entries 37
Mean 0.02036
Std Dev 0.3623

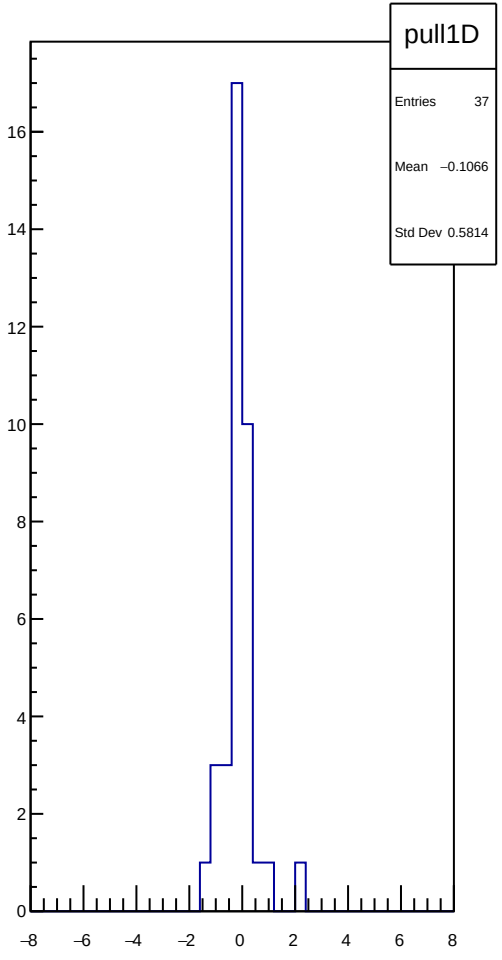

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.39 / 36
p0 34.07 ± 3.028
pull
Entries 37
Mean 5.916
Std Dev 16.41

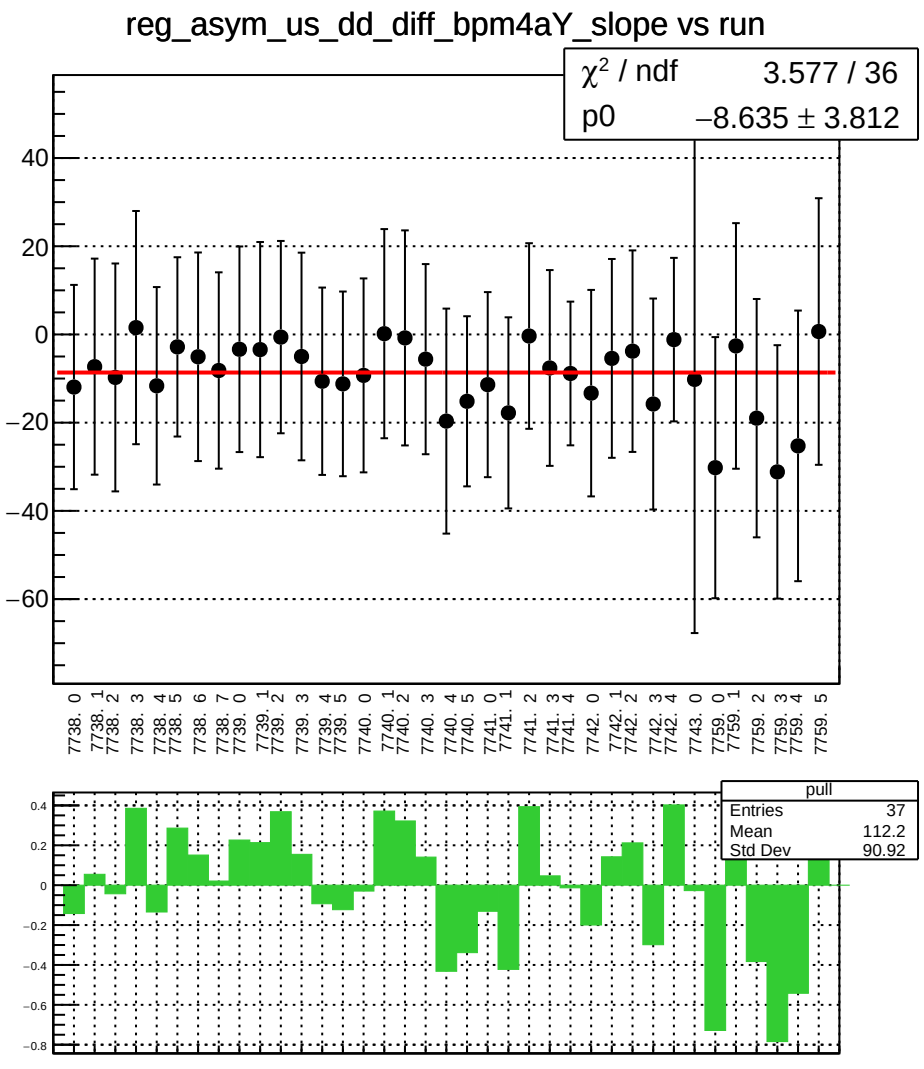

pull1D
Entries 37
Mean −0.06951
Std Dev 0.5254

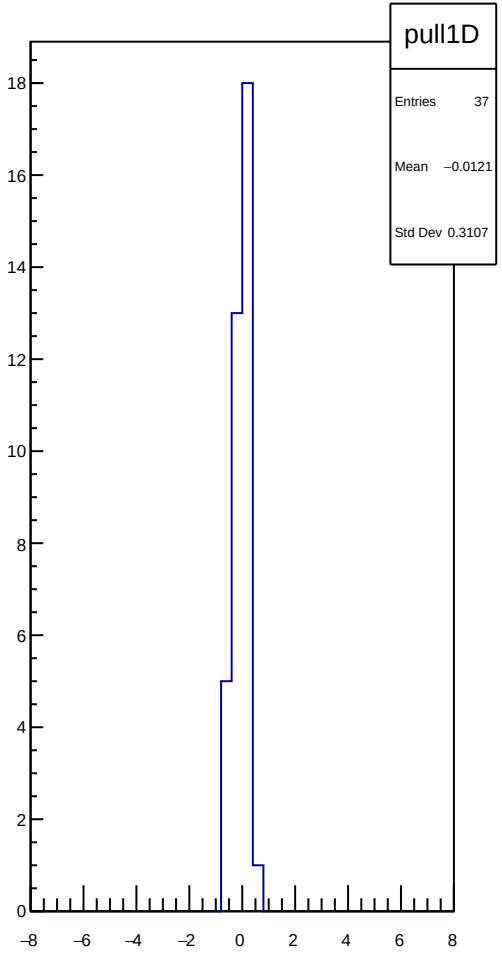

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.269 / 36
p0 −7.262 ± 6.224
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −18.35
Std Dev 39.59
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean −0.01287
Std Dev 0.3394
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

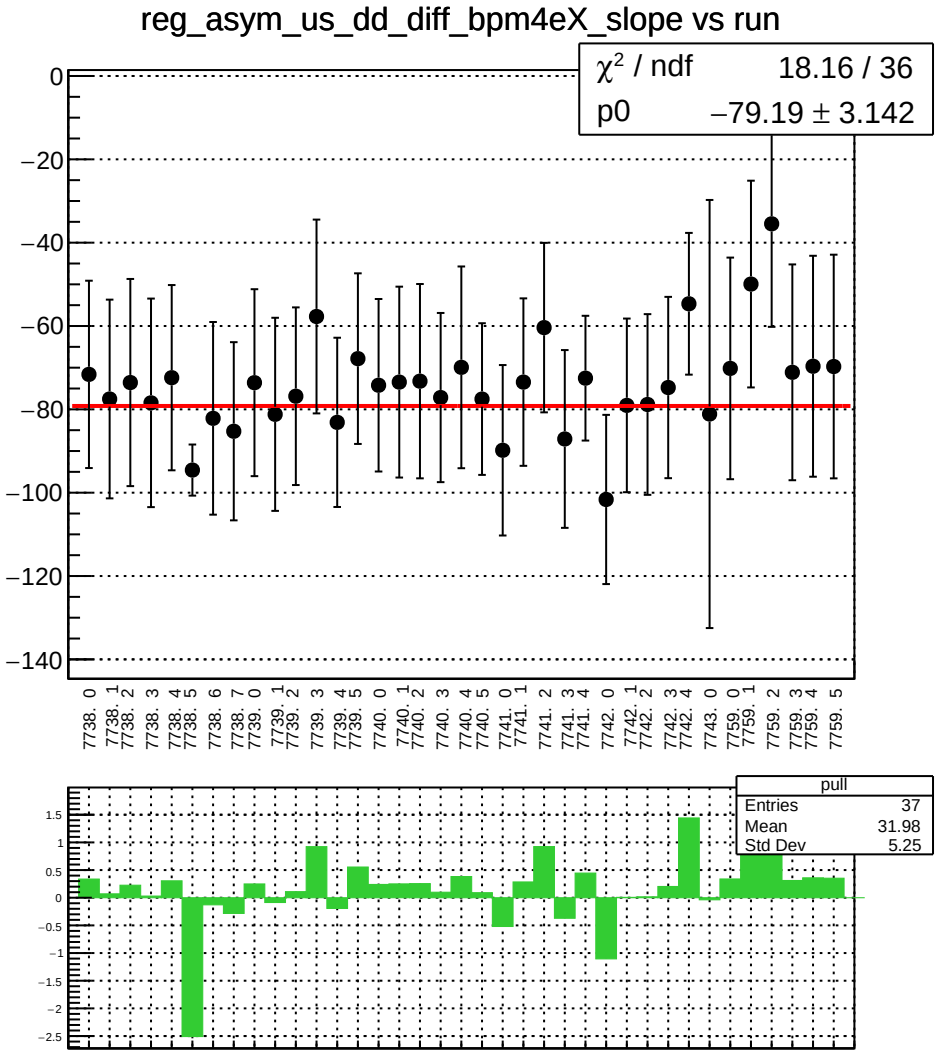

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 265.4 / 36
p0 −43.32 ± 0.1982
pull
Entries 37
Mean −3.102
Std Dev 14.98
pull1D
Entries 37
Mean −0.2491
Std Dev 2.667

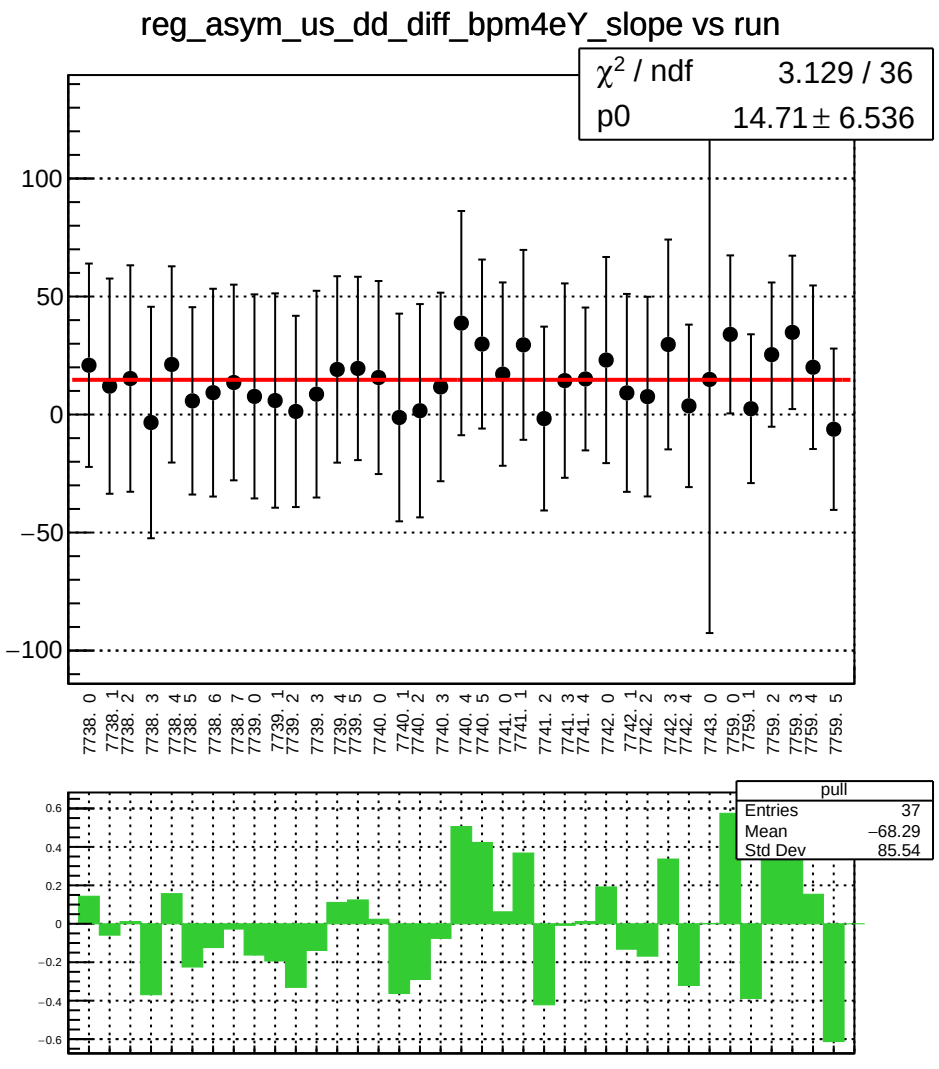

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 12.93 / 36
p0 2.538 ± 3.205
pull
Entries 37
Mean 24.44
Std Dev 5.94

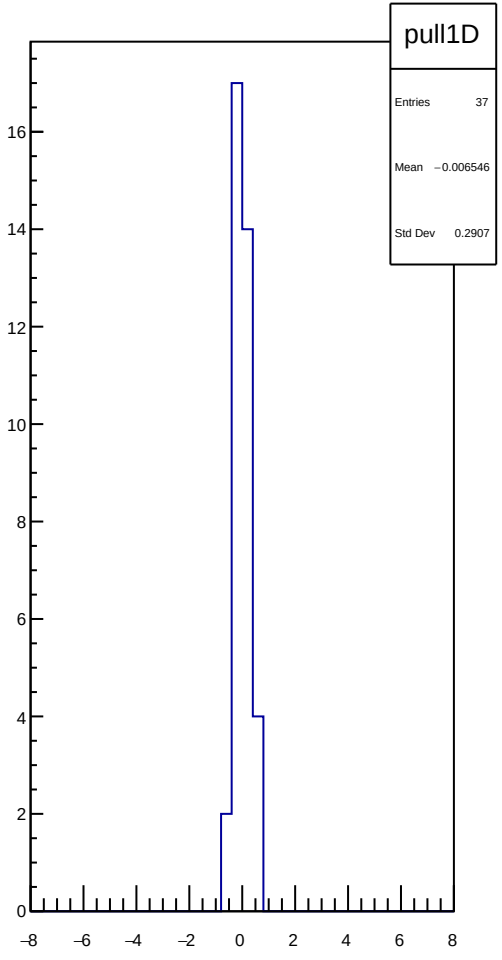

pull1D
Entries 37
Mean −0.1066
Std Dev 0.5814

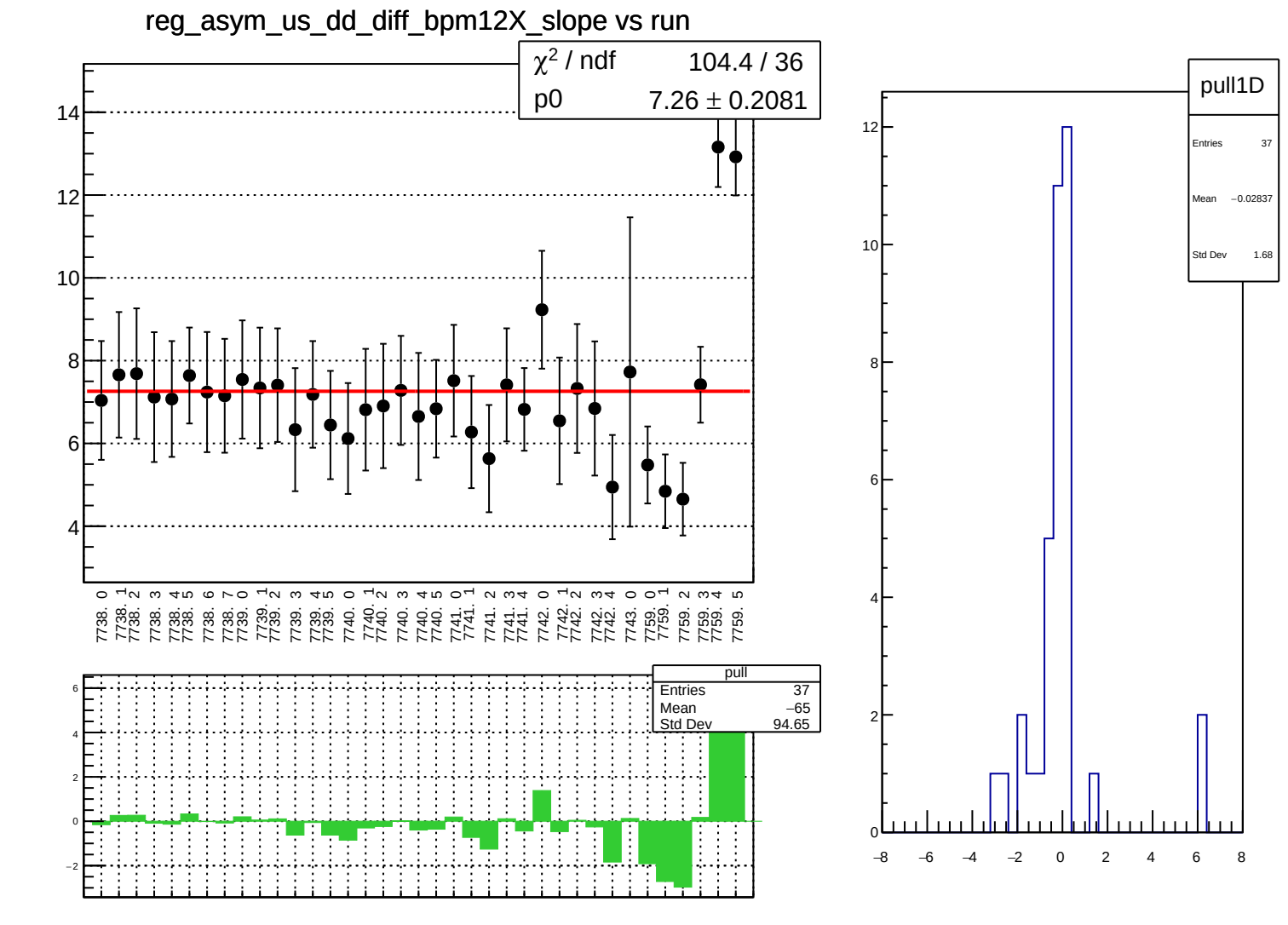

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.577 / 36
p0 −8.635 ± 3.812
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 112.2
Std Dev 90.92
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

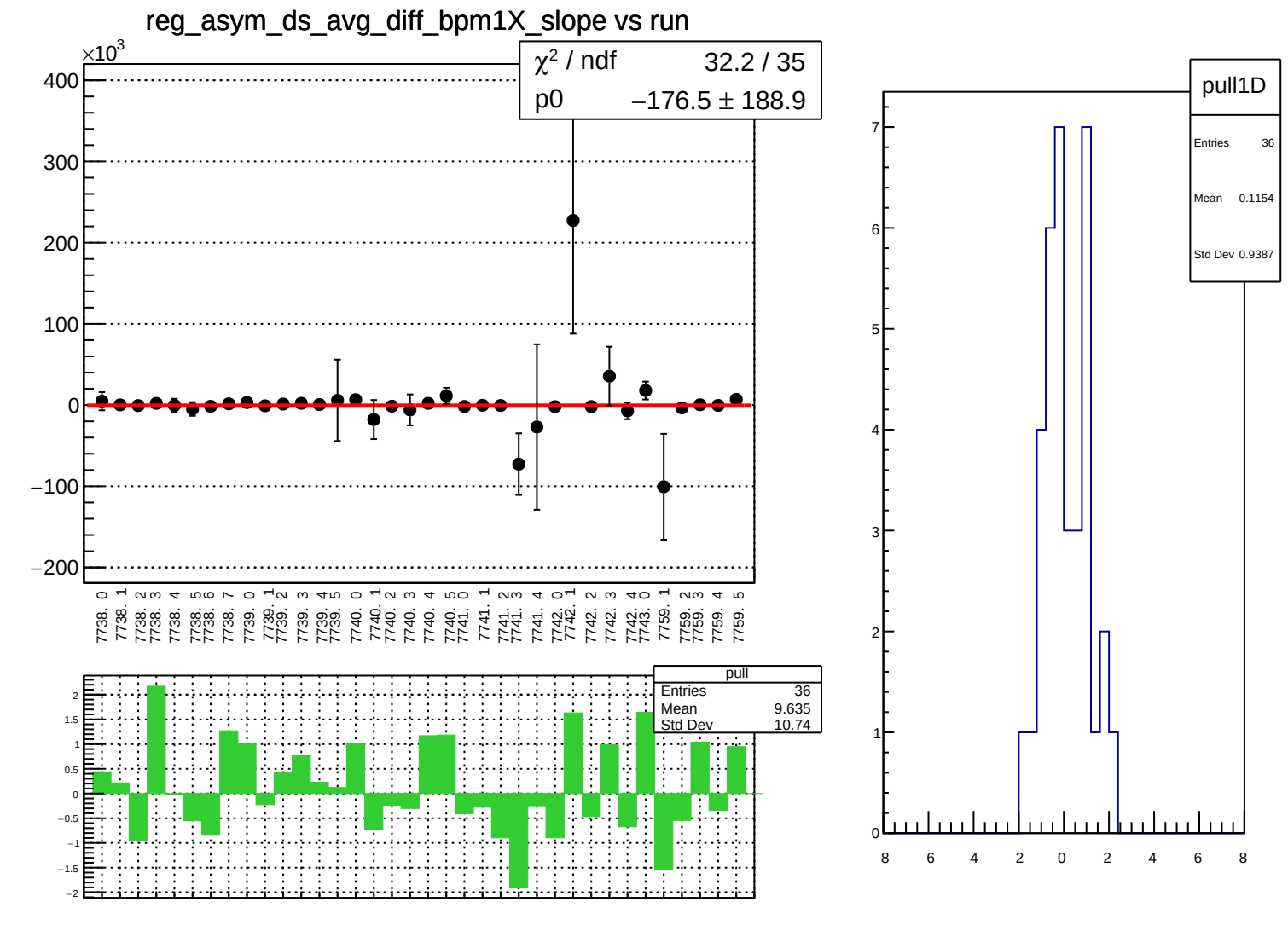

pull1D
Entries 37
Mean −0.0121
Std Dev 0.3107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

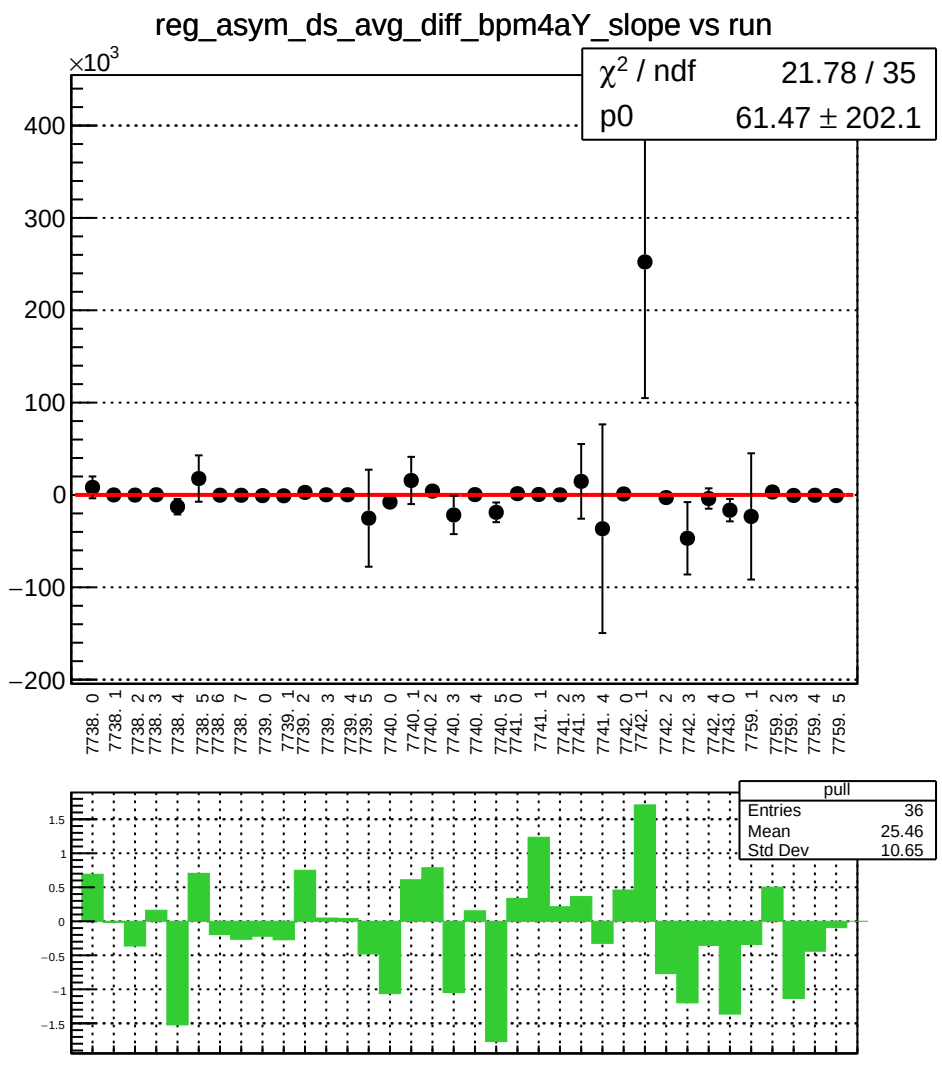

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.16 / 36
p0 −79.19 ± 3.142
0
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.98
Std Dev 5.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 37
Mean 0.1763
Std Dev 0.6779
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

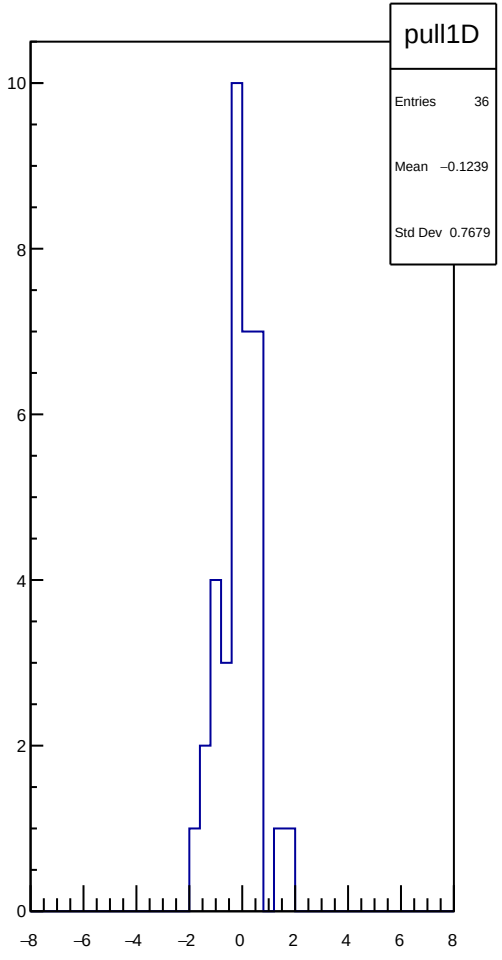

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.129 / 36
p0 14.71 ± 6.536
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −68.29
Std Dev 85.54
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

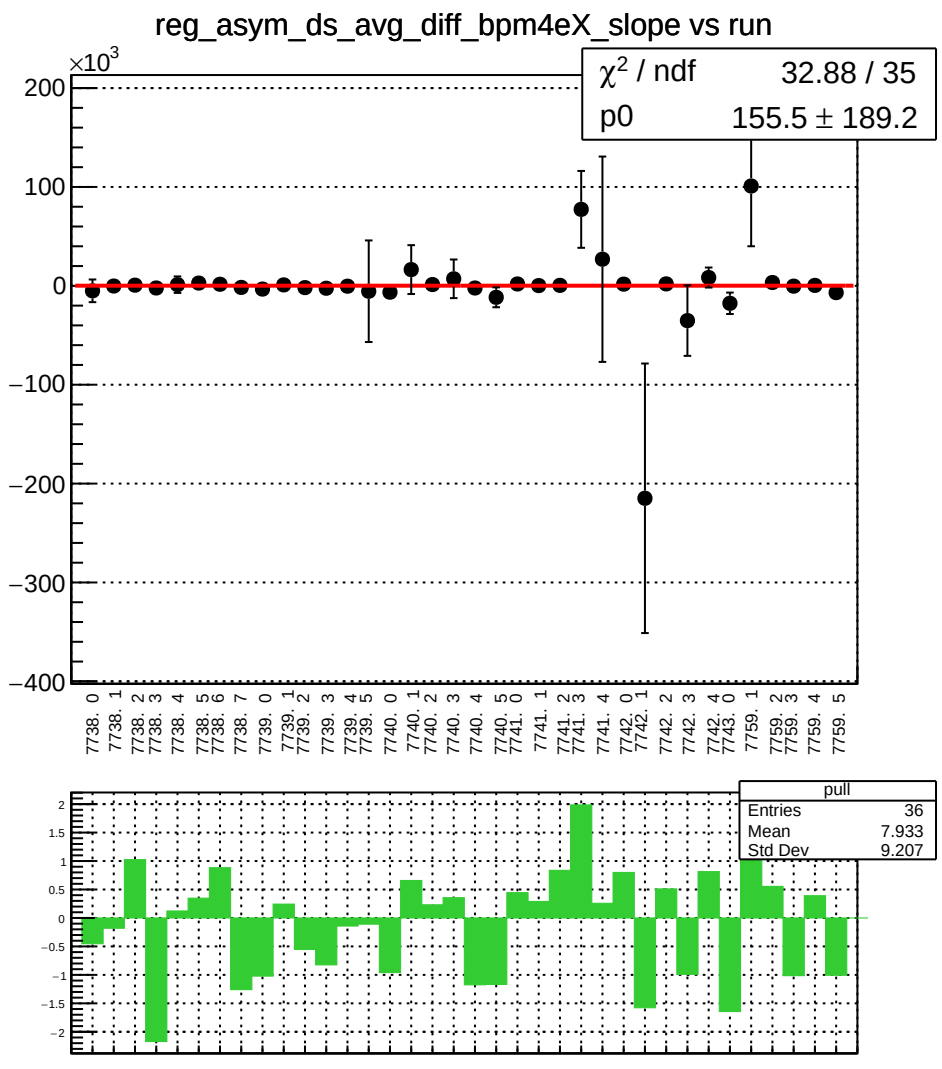

pull1D
Entries 37
Mean −0.006546
Std Dev 0.2907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

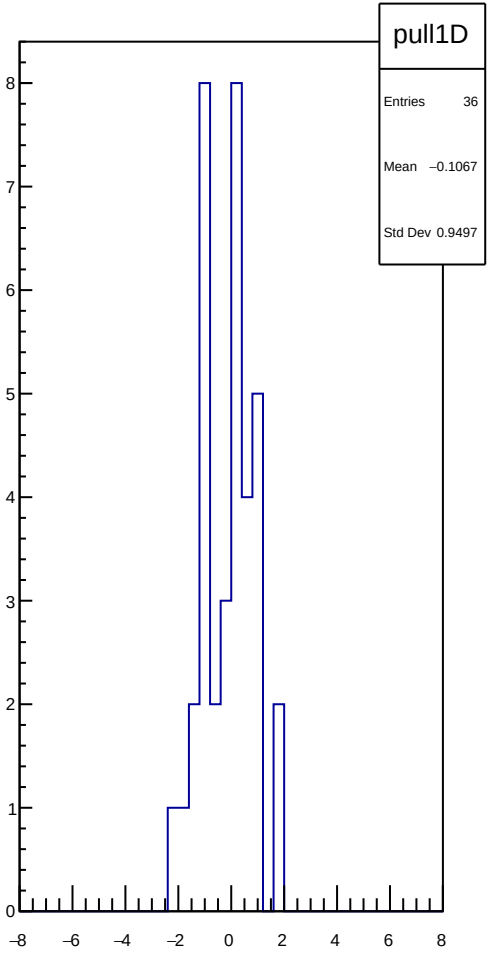

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 104.4 / 36
p0 7.26 ± 0.2081
pull
Entries 37
Mean −65
Std Dev 94.65
pull1D
Entries 37
Mean −0.02837
Std Dev 1.68

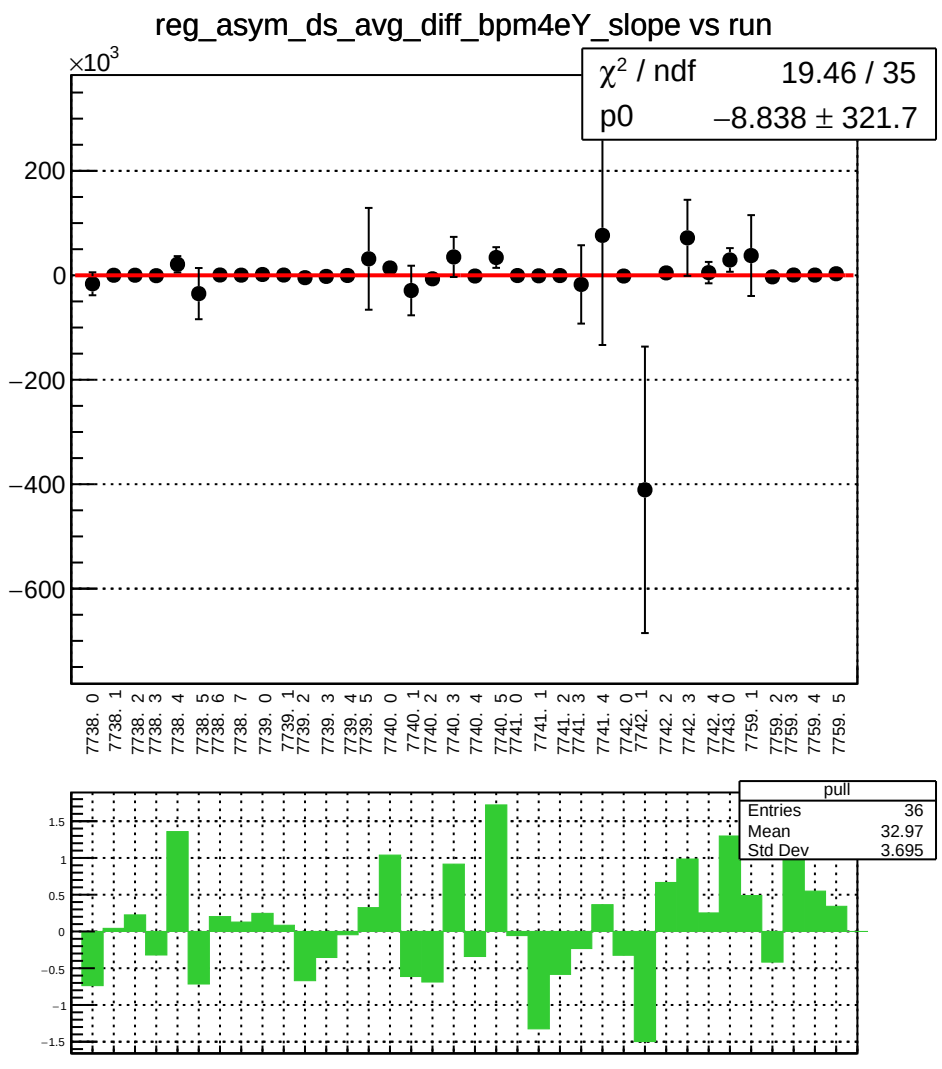

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.2 / 35
p0 −176.5 ± 188.9
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 9.635
Std Dev 10.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 36
Mean 0.1154
Std Dev 0.9387
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

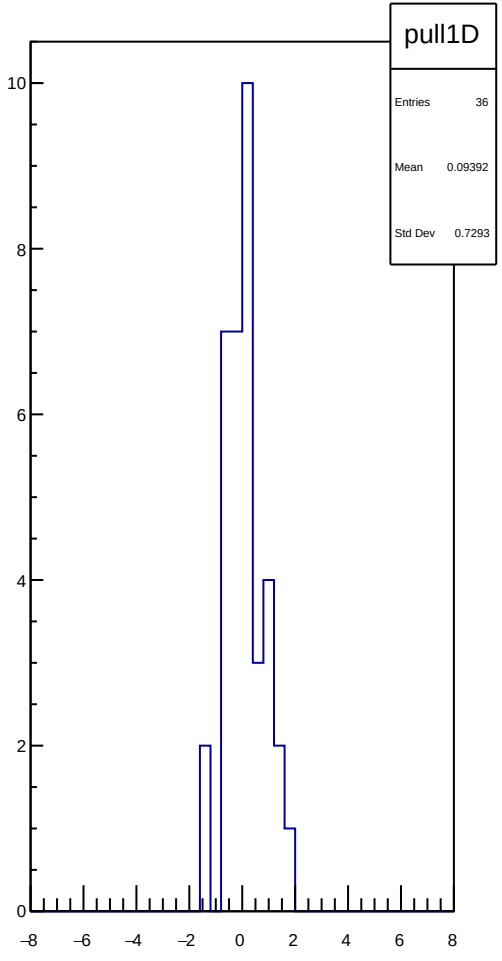

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 21.78 / 35
p0 61.47 ± 202.1
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 25.46
Std Dev 10.65
1.5
1
0.5
0
−0.5
−1
−1.5

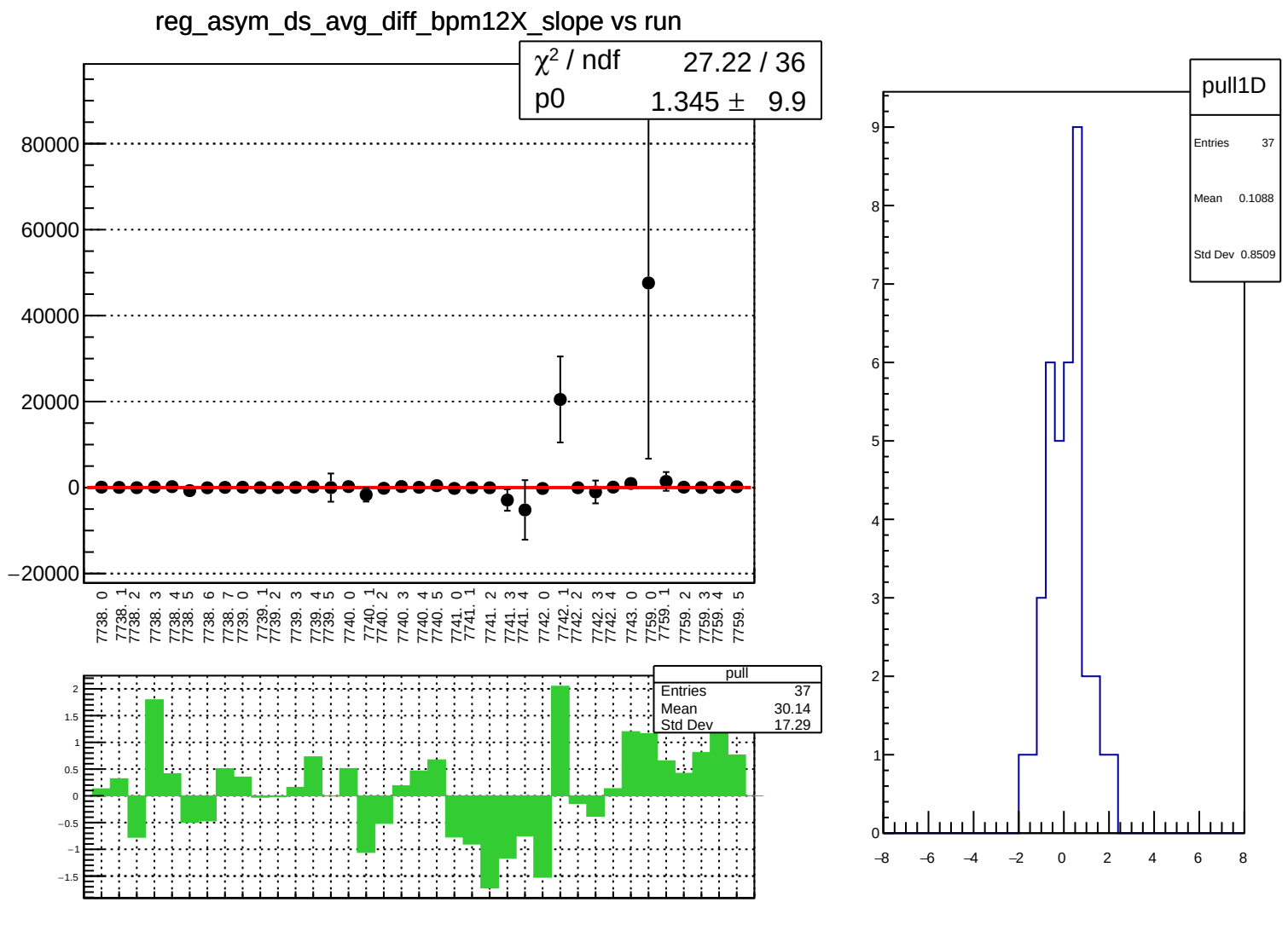

pull1D
Entries 36
Mean −0.1239
Std Dev 0.7679
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

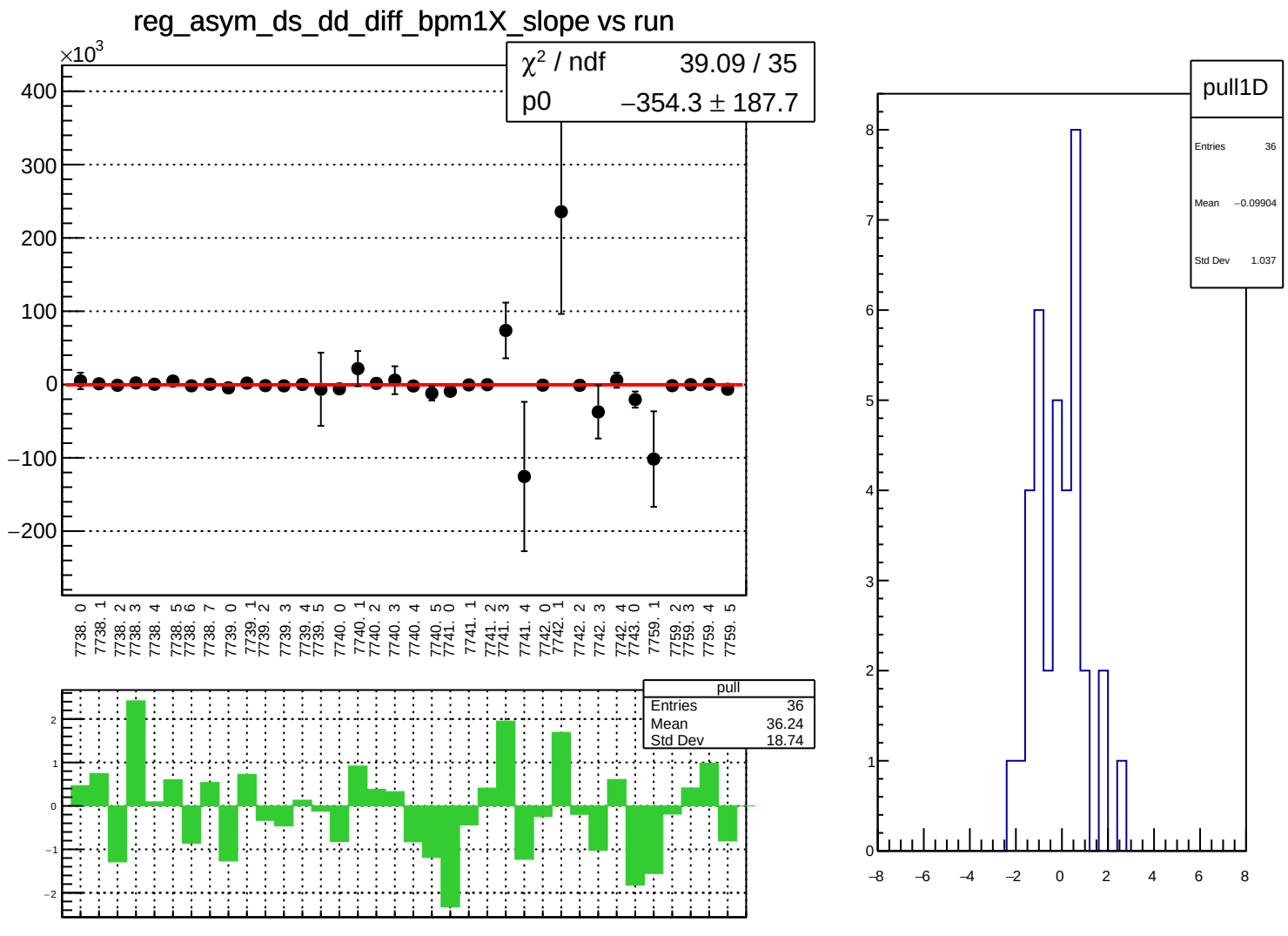

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 32.88 / 35
p0 155.5 ± 189.2
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 7.933
Std Dev 9.207
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

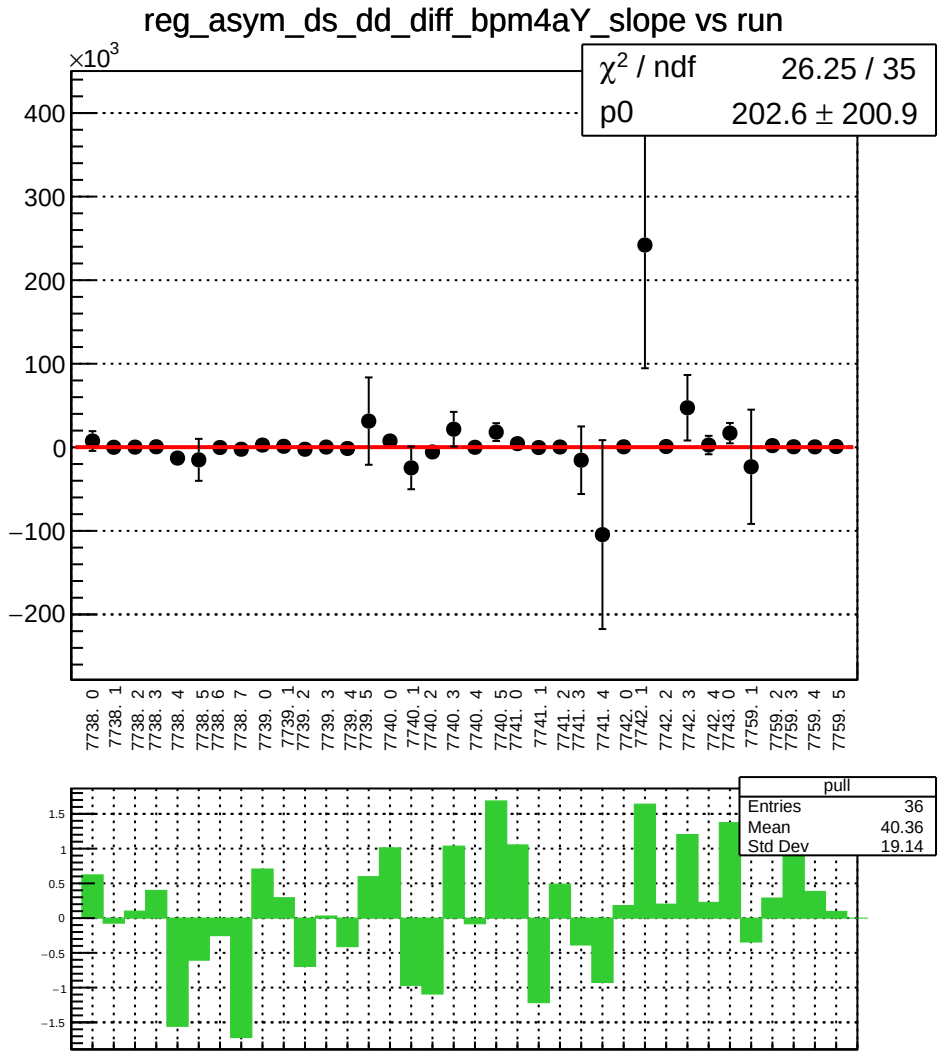

pull1D
Entries 36
Mean −0.1067
Std Dev 0.9497
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

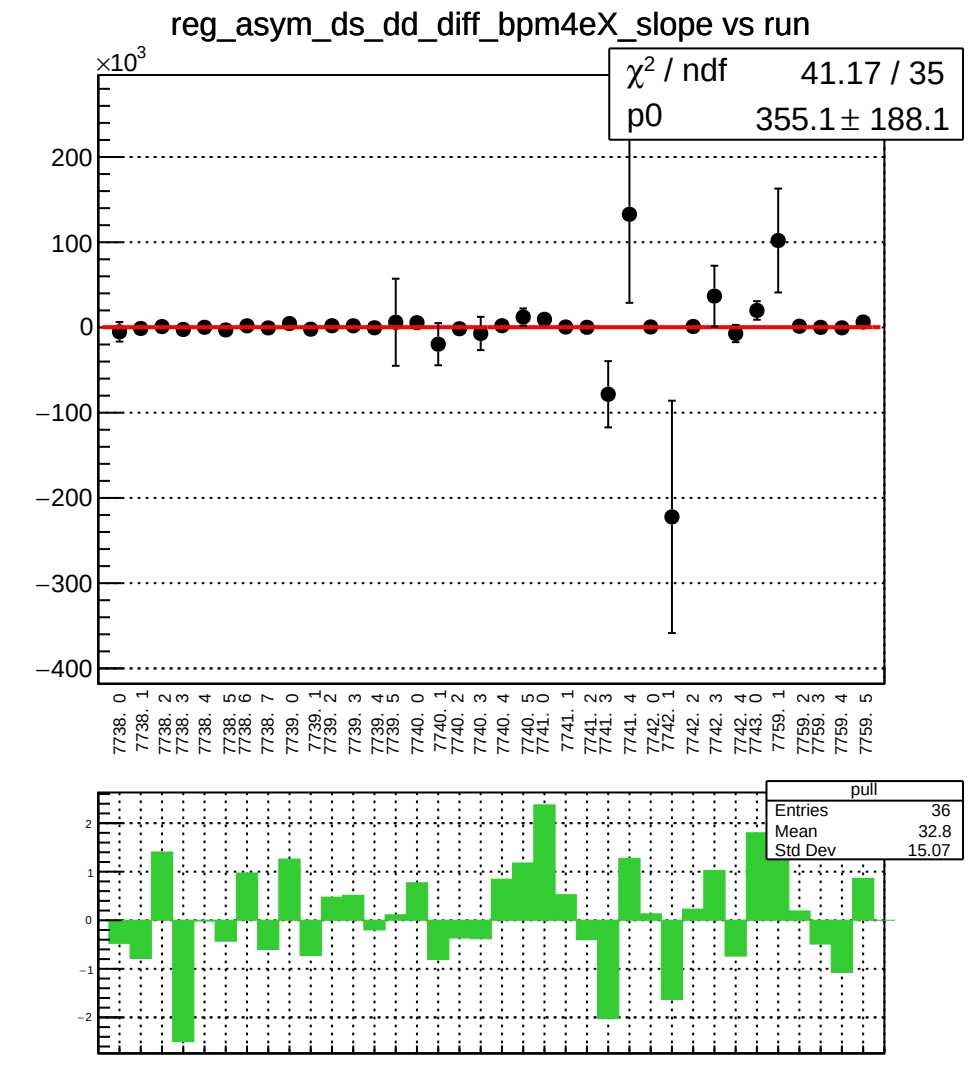

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 19.46 / 35
p0 −8.838 ± 321.7
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 32.97
Std Dev 3.695
1.5
1
0.5
0
−0.5
−1
−1.5

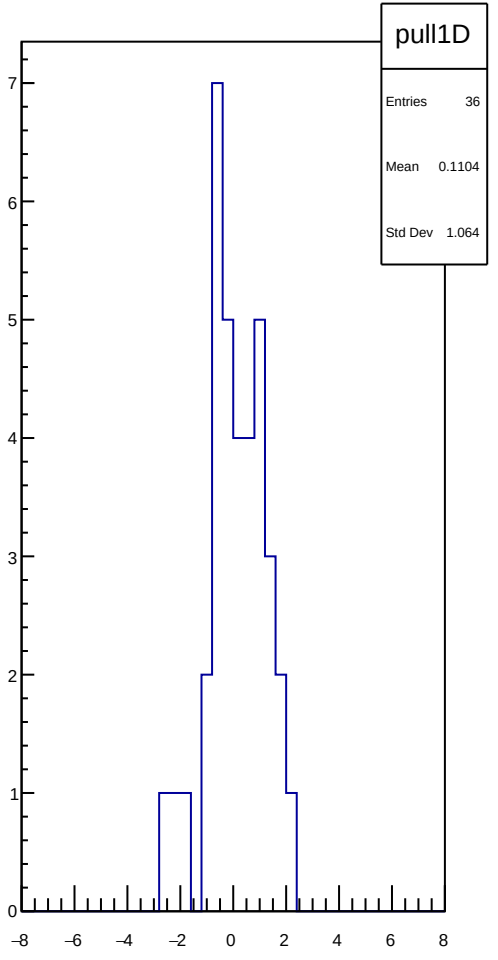

pull1D
Entries 36
Mean 0.09392
Std Dev 0.7293
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

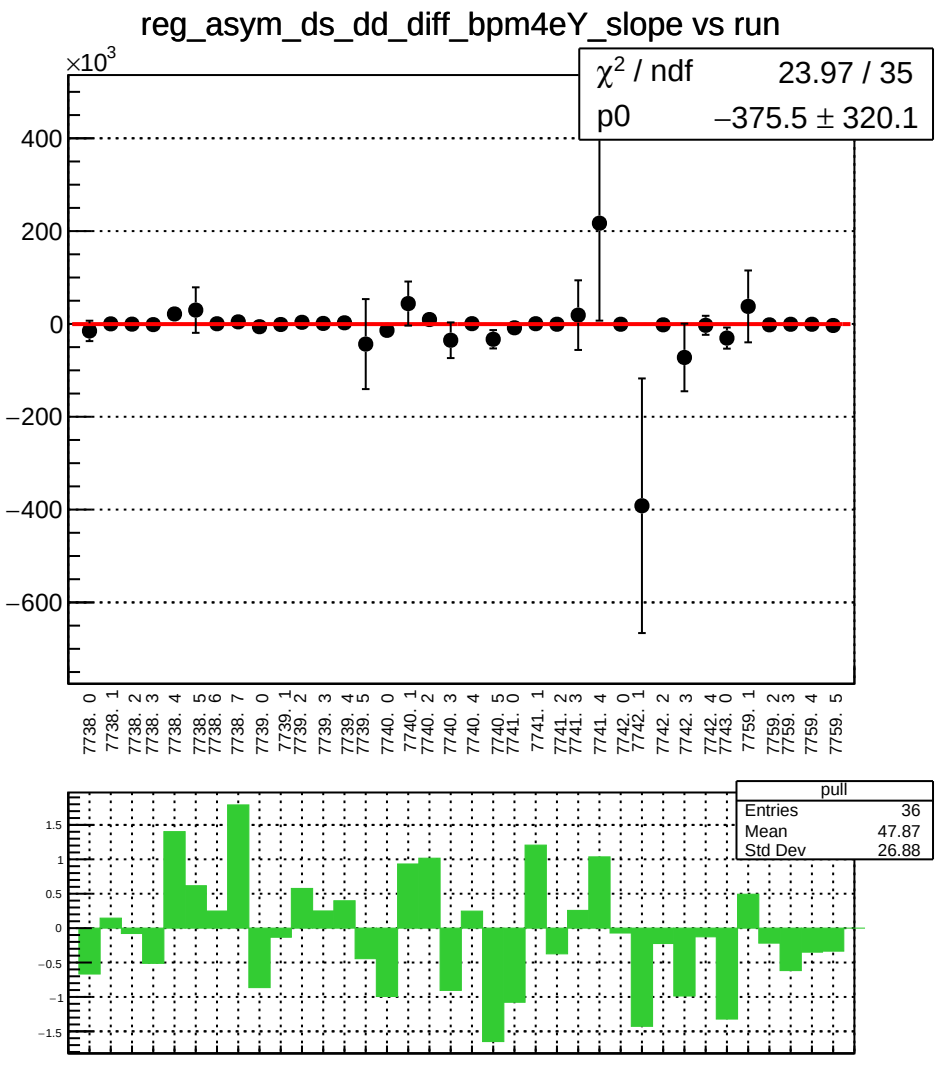

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 27.22 / 36
p0 1.345 ± 9.9
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.14
Std Dev 17.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.1088
Std Dev 0.8509
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

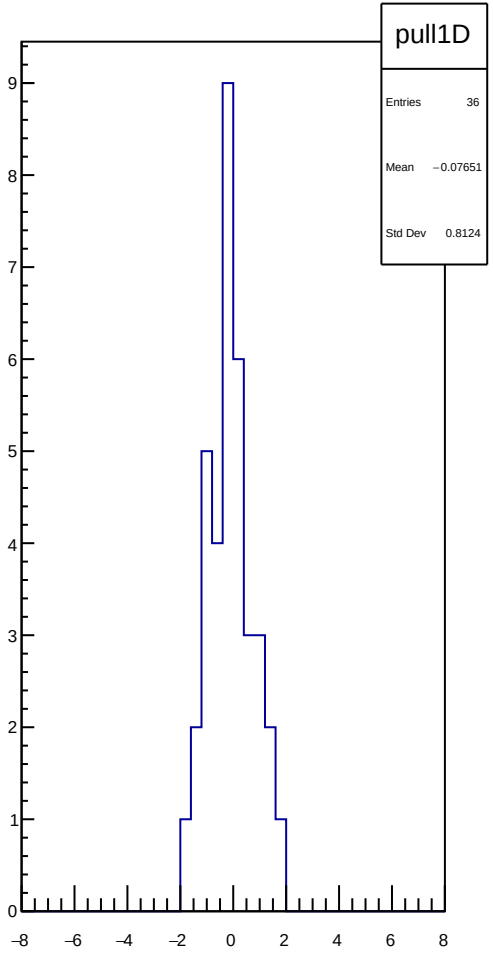

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 39.09 / 35
p0 −354.3 ± 187.7
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 36.24
Std Dev 18.74
2
1
0
−1
−2
pull1D
Entries 36
Mean −0.09904
Std Dev 1.037
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

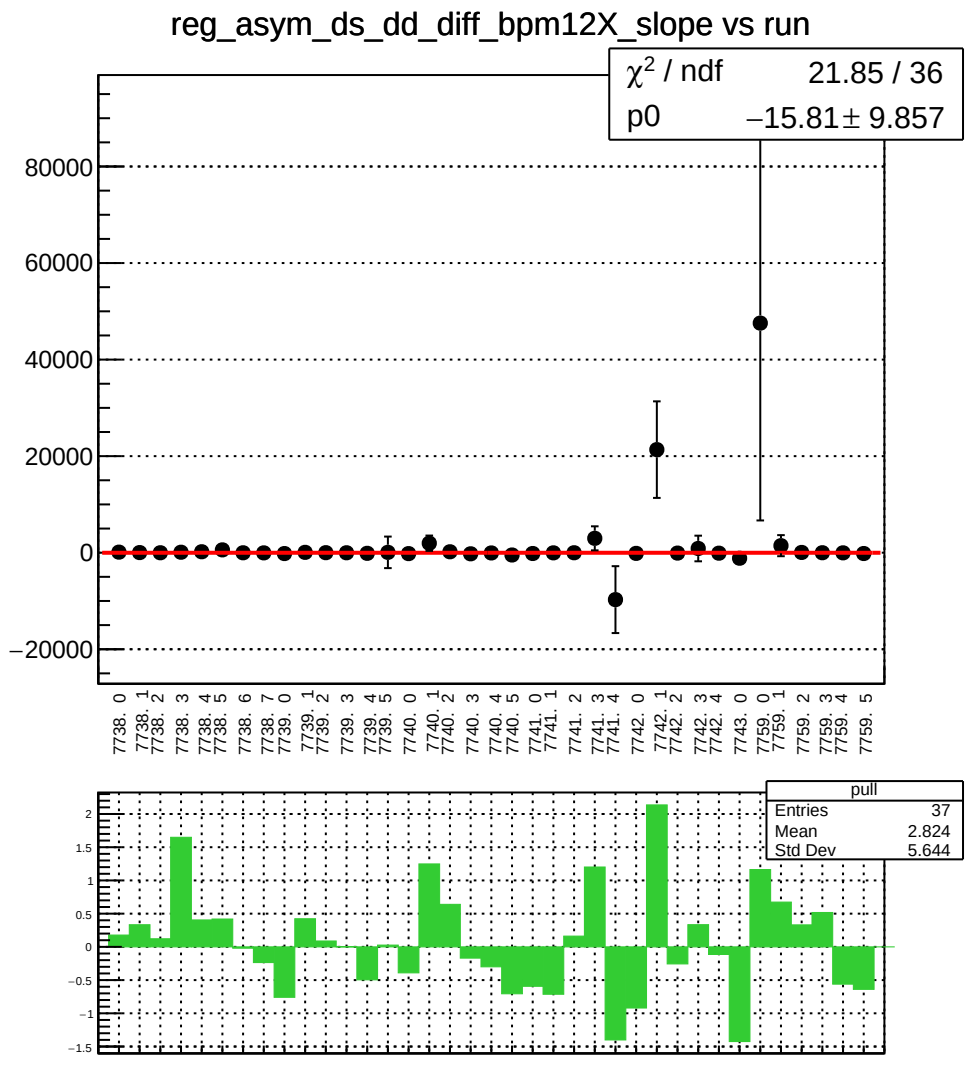

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 26.25 / 35
p0 202.6 ± 200.9
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 40.36
Std Dev 19.14
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 36
Mean 0.1173
Std Dev 0.8459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

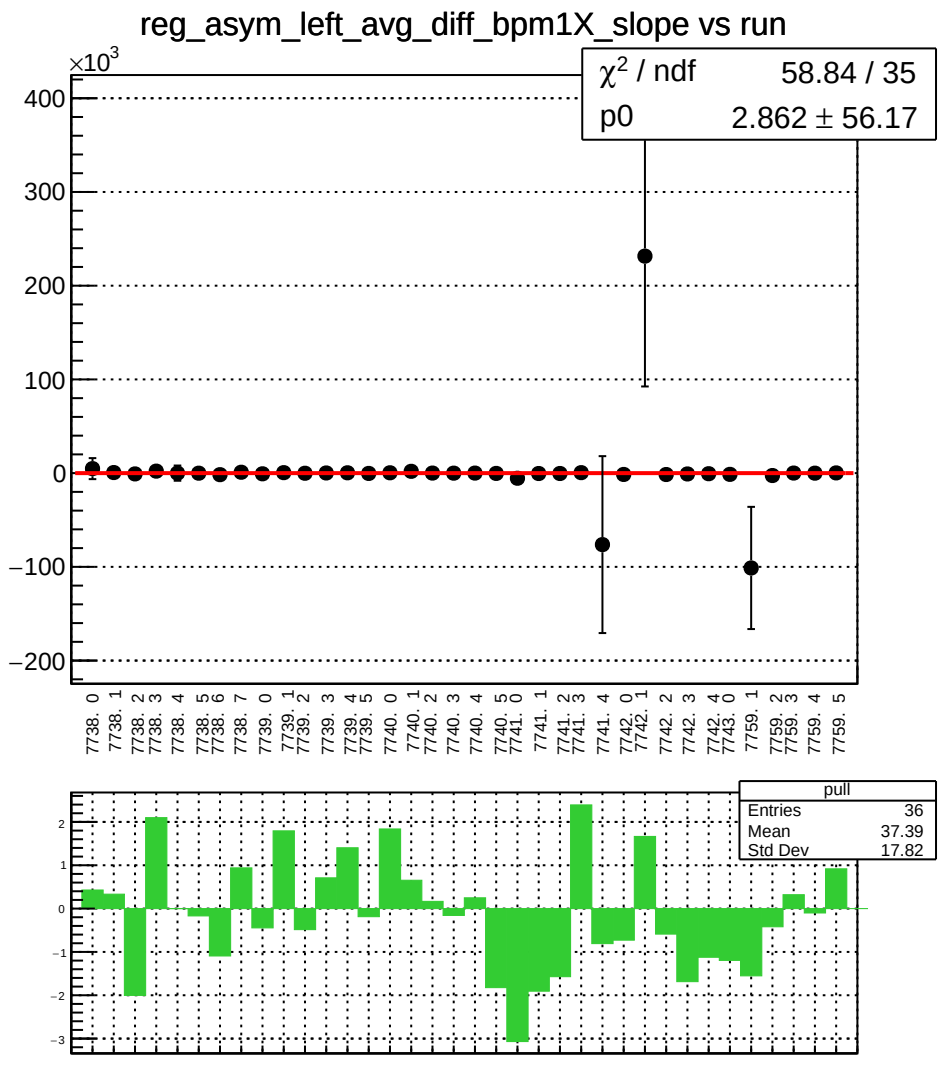

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 41.17 / 35
p0 355.1 ± 188.1
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 32.8
Std Dev 15.07
2
1
0
−1
−2

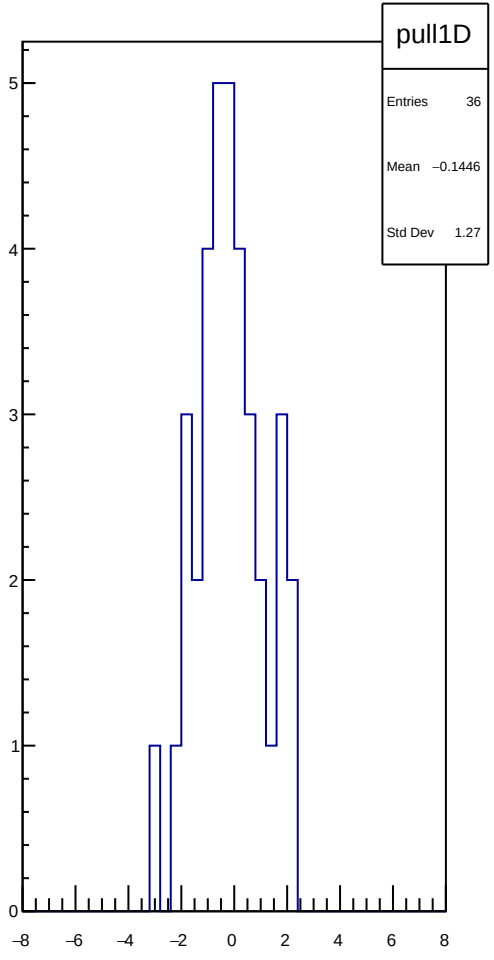

pull1D
Entries 36
Mean 0.1104
Std Dev 1.064
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

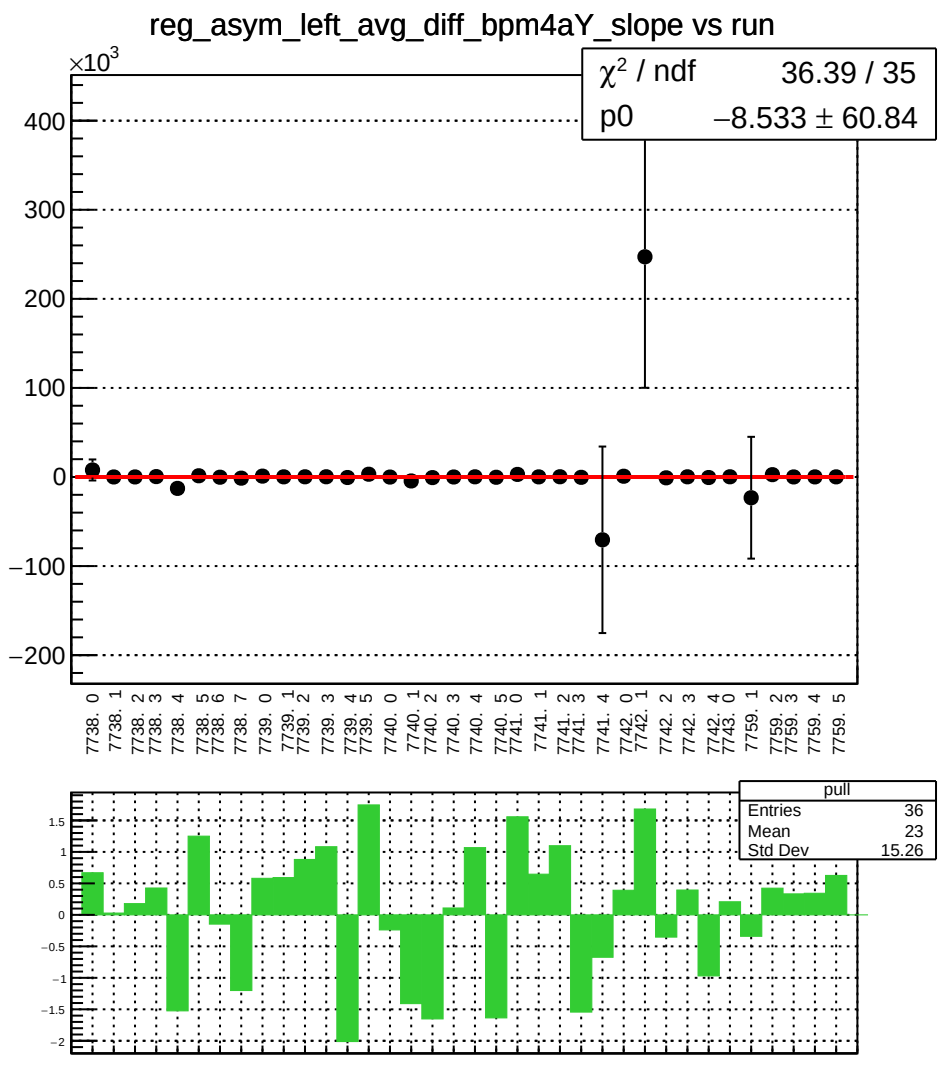

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 23.97 / 35
p0 −375.5 ± 320.1
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 47.87
Std Dev 26.88
1.5
1
0.5
0
−0.5
−1
−1.5

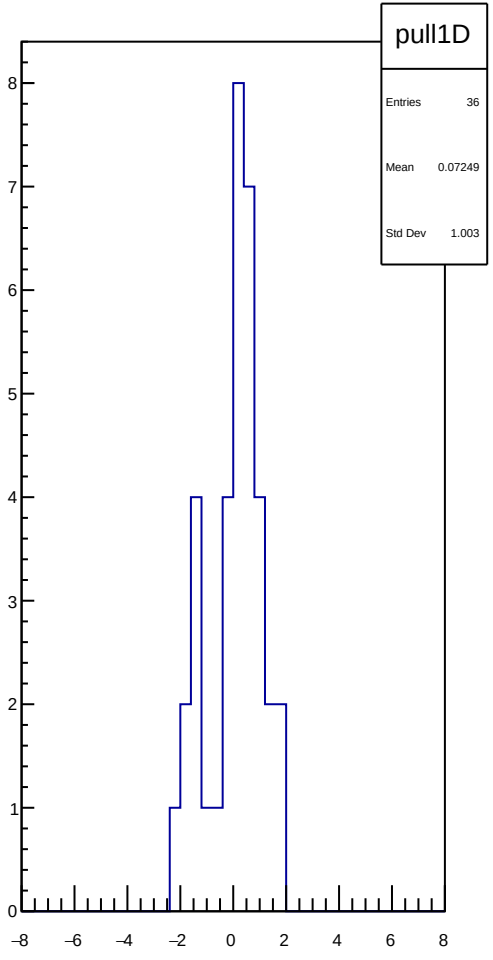

pull1D
Entries 36
Mean −0.07651
Std Dev 0.8124
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

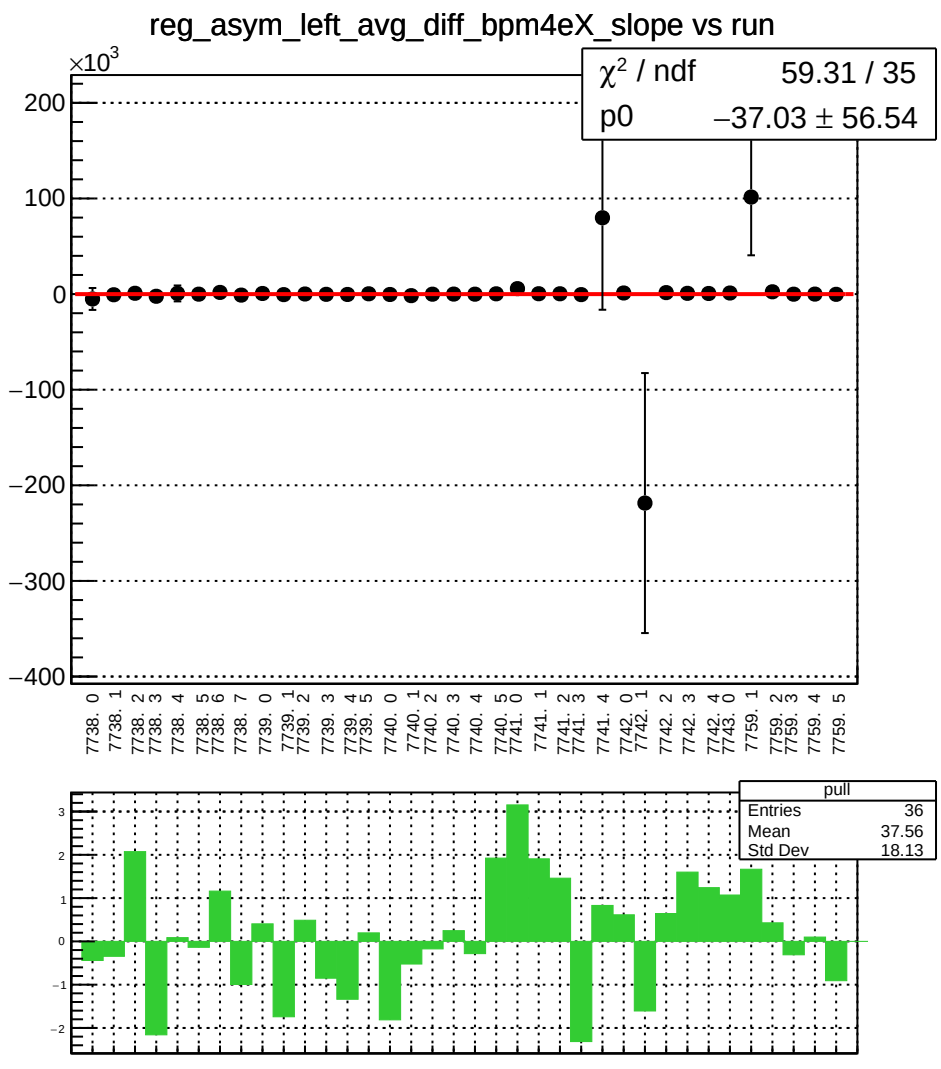

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 21.85 / 36
p0 −15.81 ± 9.857
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.824
Std Dev 5.644
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.06364
Std Dev 0.7659
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

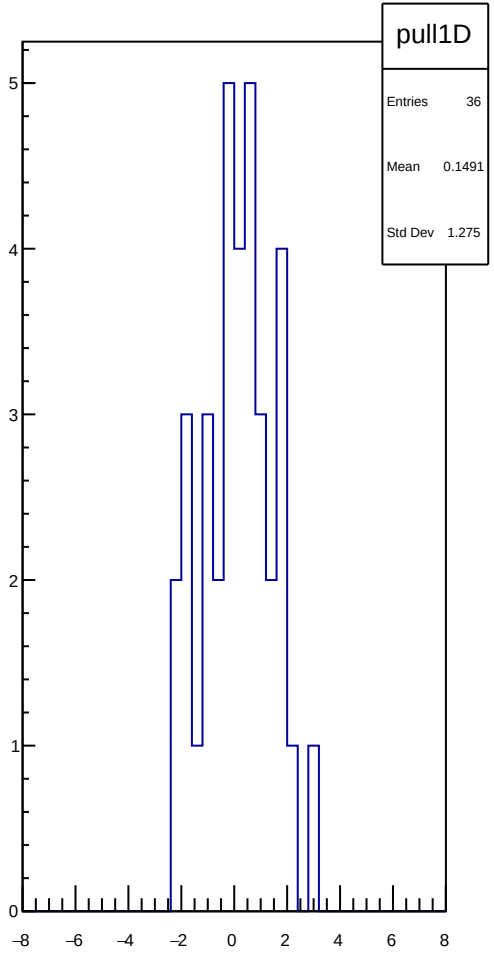

reg_asym_left_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 58.84 / 35
p0 2.862 ± 56.17
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.39
Std Dev 17.82
2
1
0
−1
−2
−3

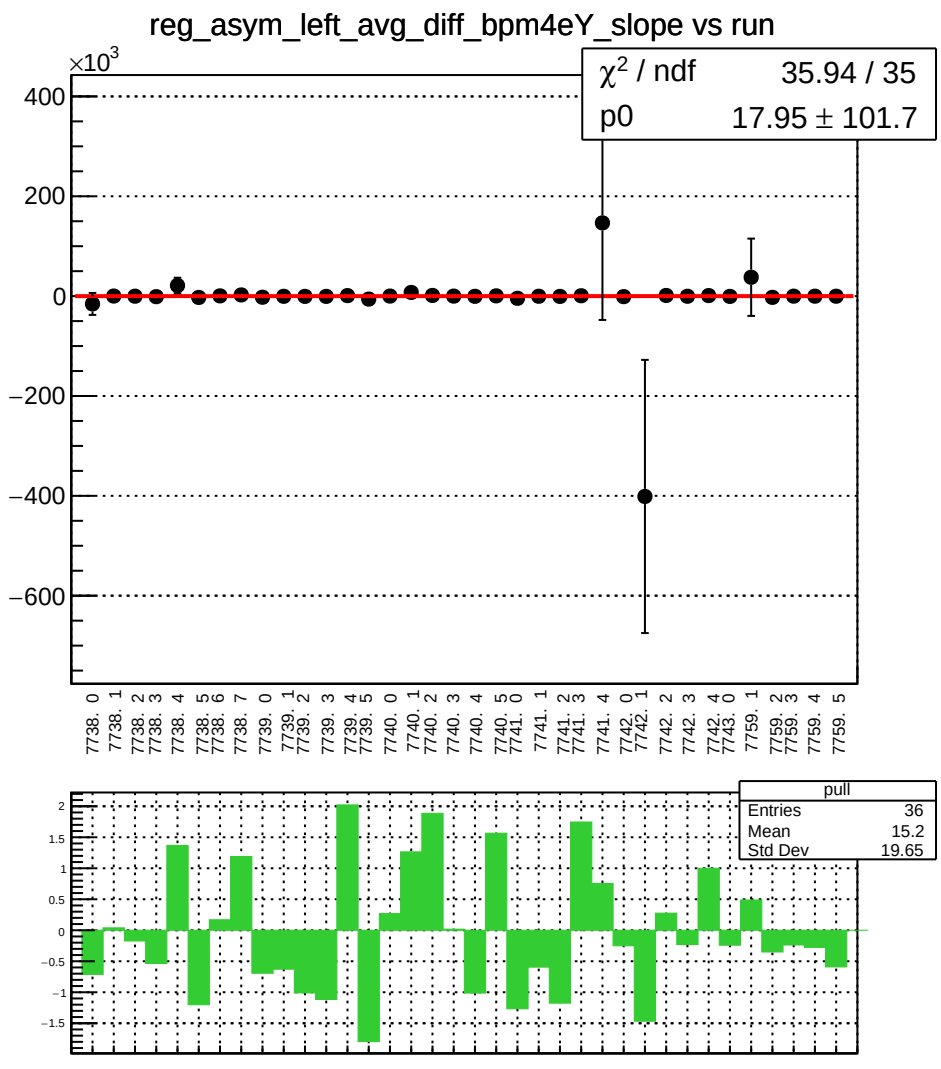

pull1D
Entries 36
Mean −0.1446
Std Dev 1.27
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

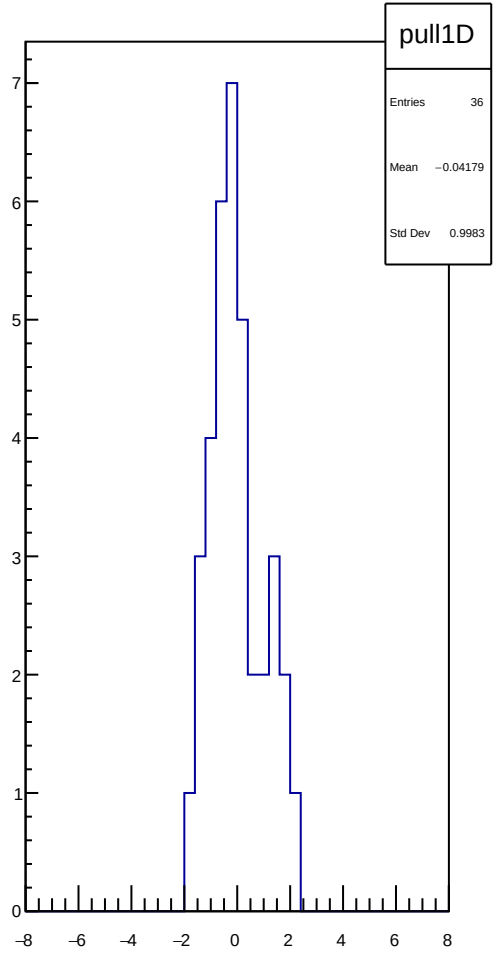

reg_asym_left_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 36.39 / 35
p0 −8.533 ± 60.84
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23
Std Dev 15.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2

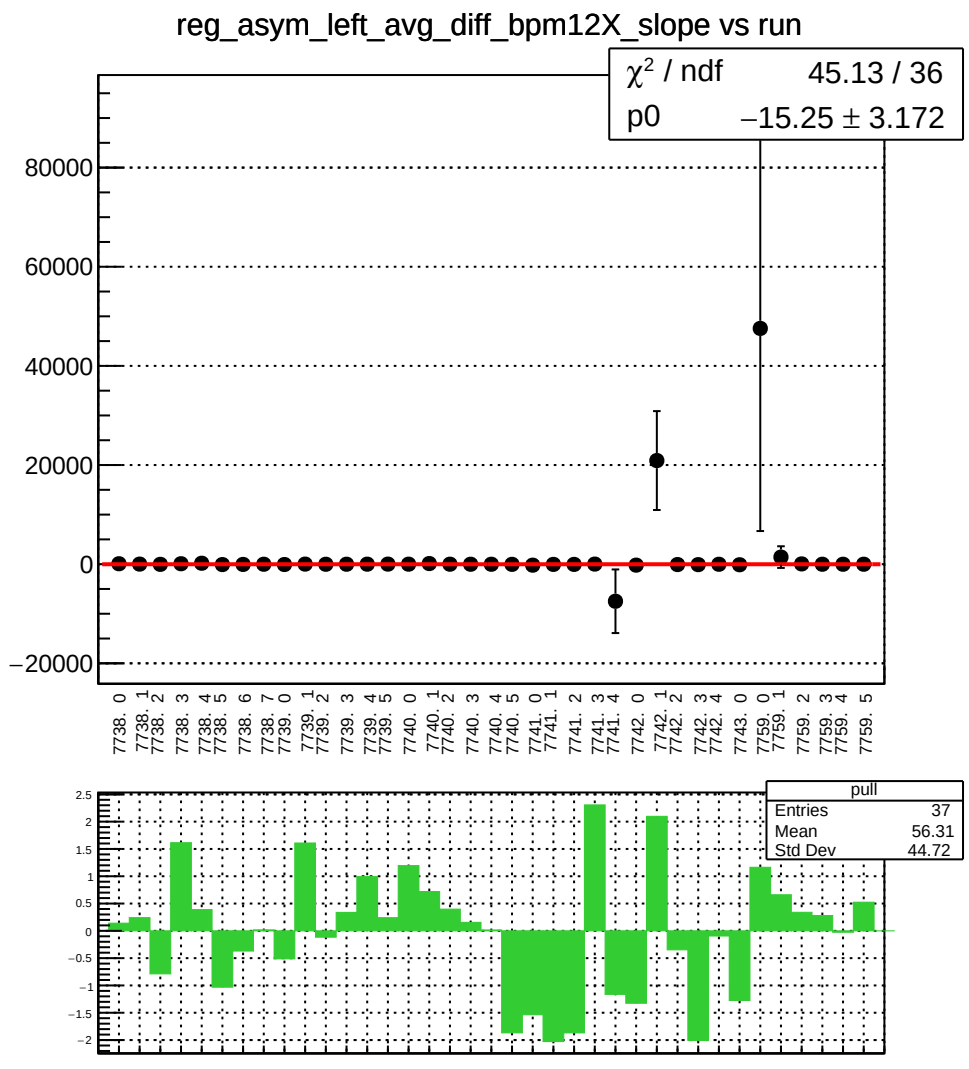

pull1D
Entries 36
Mean 0.07249
Std Dev 1.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

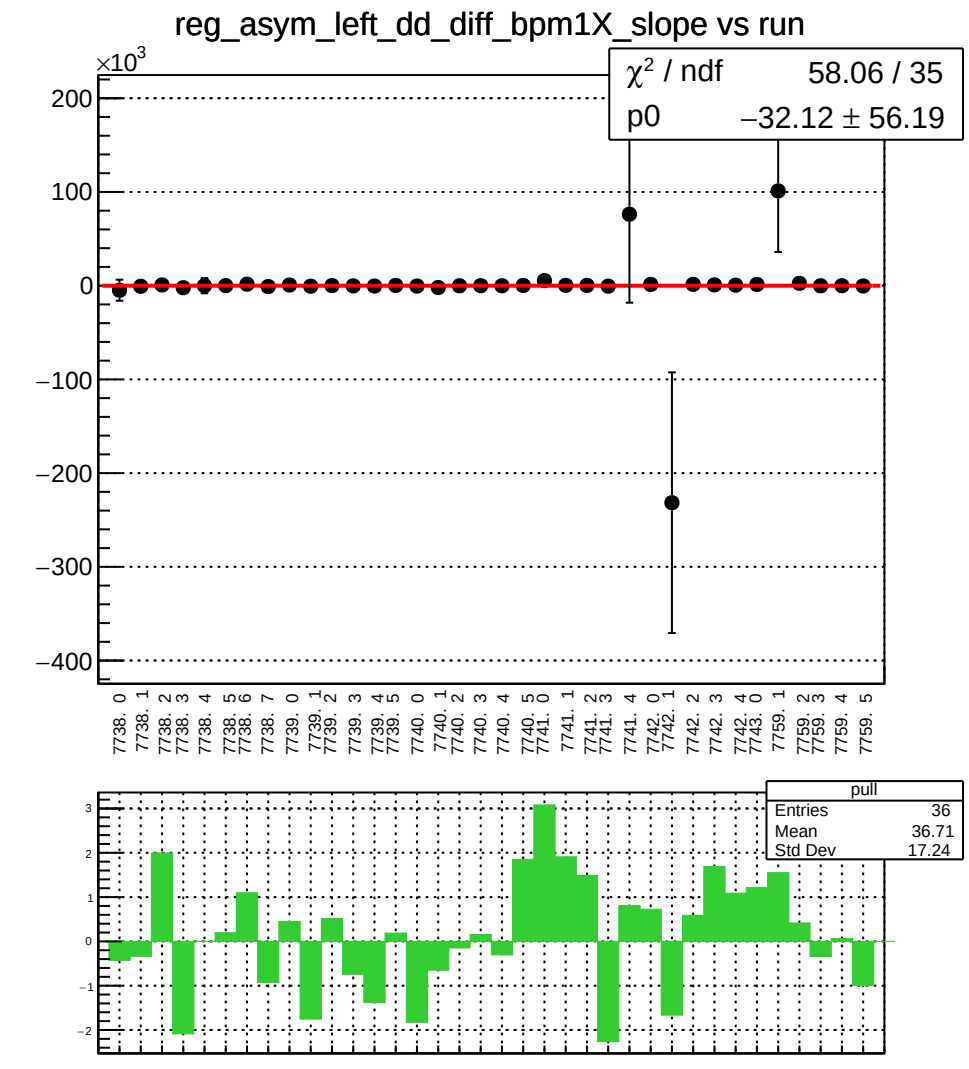

reg_asym_left_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 59.31 / 35
p0 −37.03 ± 56.54
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 37.56
Std Dev 18.13
3
2
1
0
−1
−2

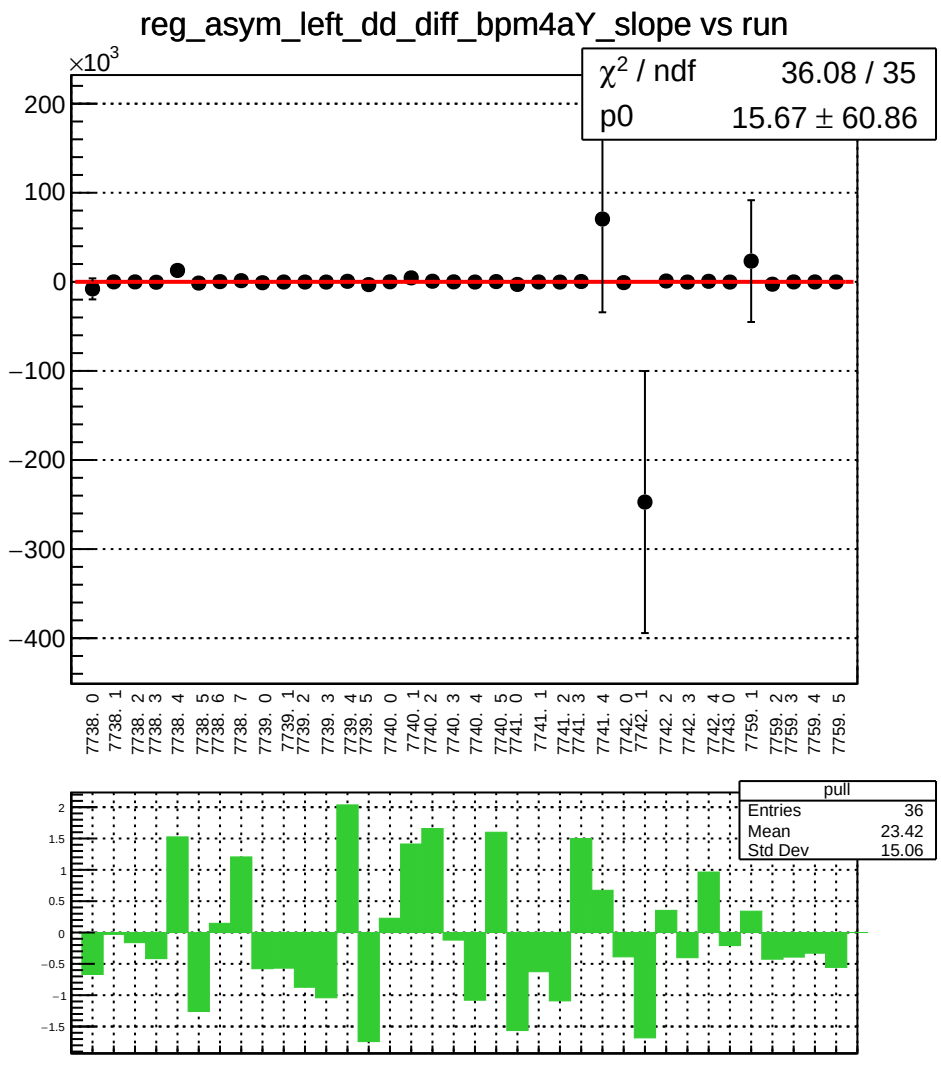

pull1D
Entries 36
Mean 0.1491
Std Dev 1.275
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

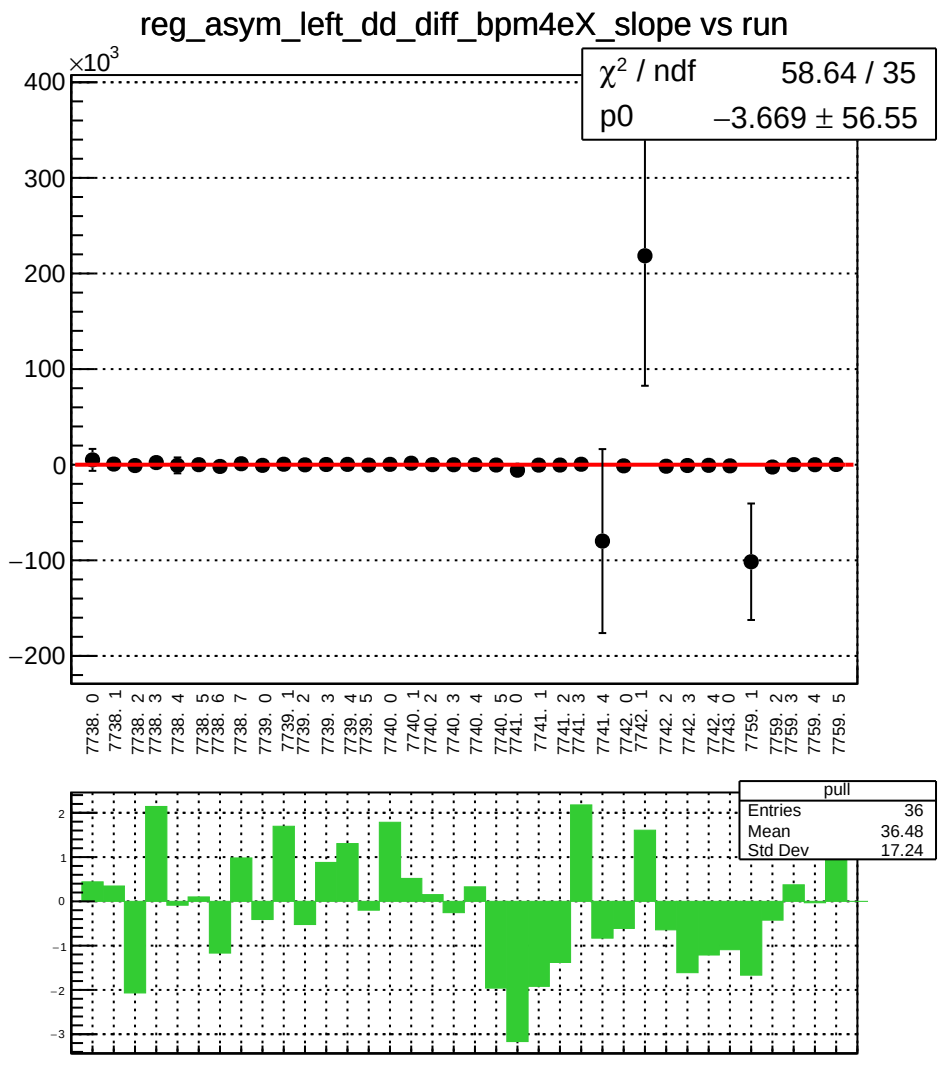

reg_asym_left_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 35.94 / 35
p0 17.95 ± 101.7
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.2
Std Dev 19.65
2
1.5
1
0.5
0
−0.5
−1
−1.5

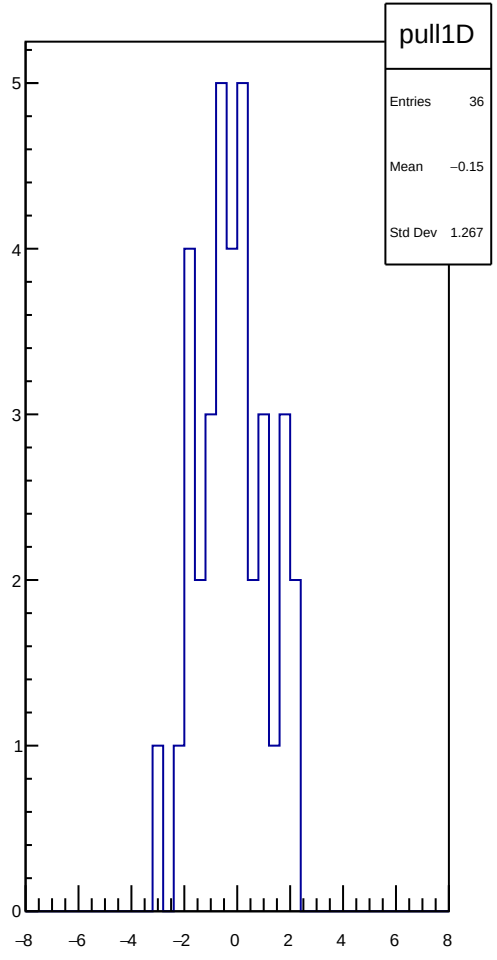

pull1D
Entries 36
Mean −0.04179
Std Dev 0.9983
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

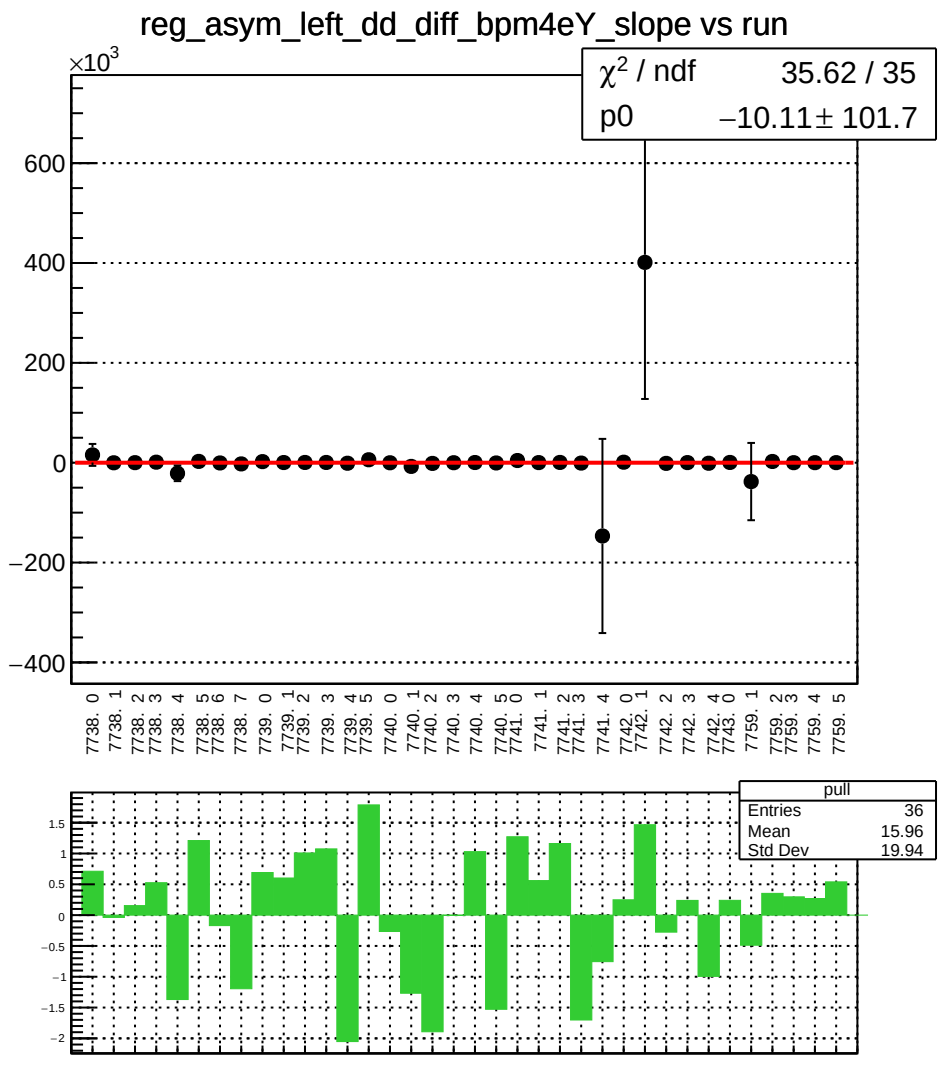

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 45.13 / 36
p0 −15.25 ± 3.172
80000
60000
40000
20000
0
−20000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 56.31
Std Dev 44.72
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02494
Std Dev 1.104
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

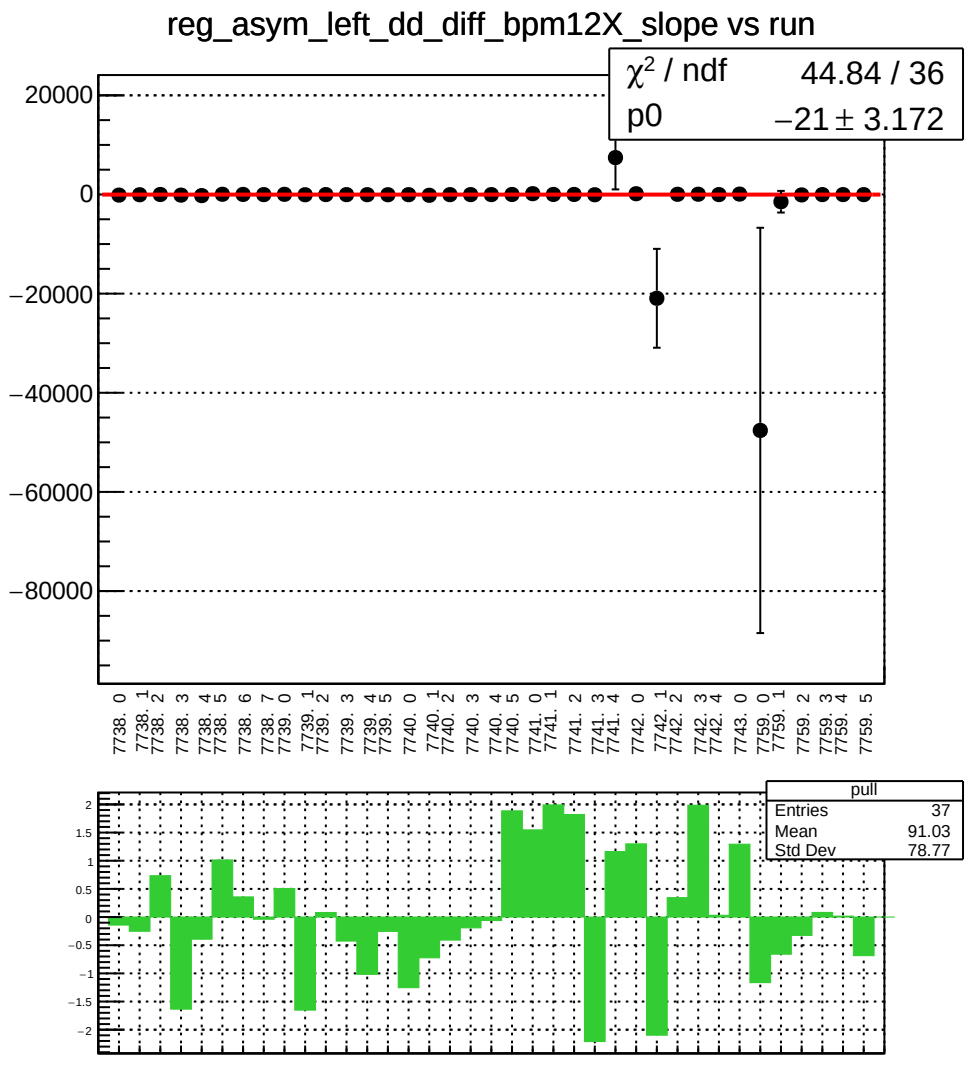

reg_asym_left_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 58.06 / 35
p0 −32.12 ± 56.19
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 36.71
Std Dev 17.24
3
2
1
0
−1
−2
pull1D
Entries 36
Mean 0.145
Std Dev 1.262
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

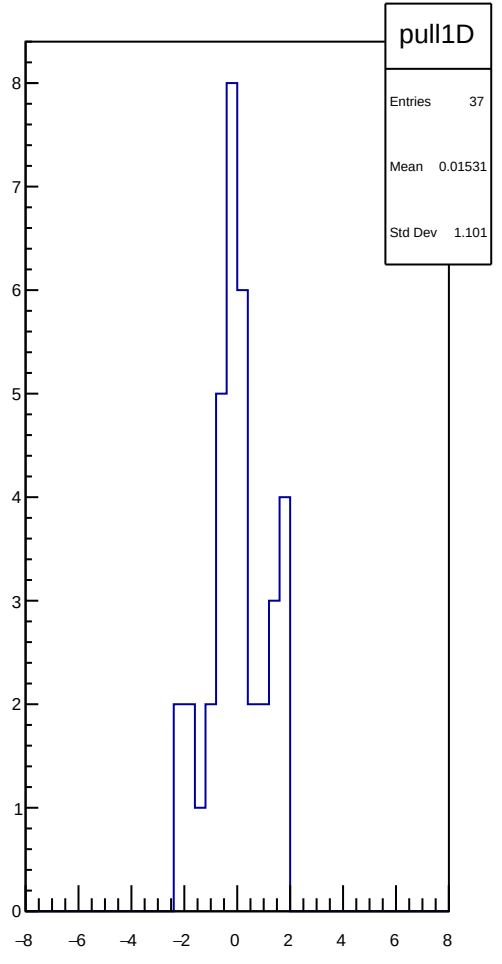

reg_asym_left_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 36.08 / 35
p0 15.67 ± 60.86
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 23.42
Std Dev 15.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 36
Mean −0.07107
Std Dev 0.9986
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

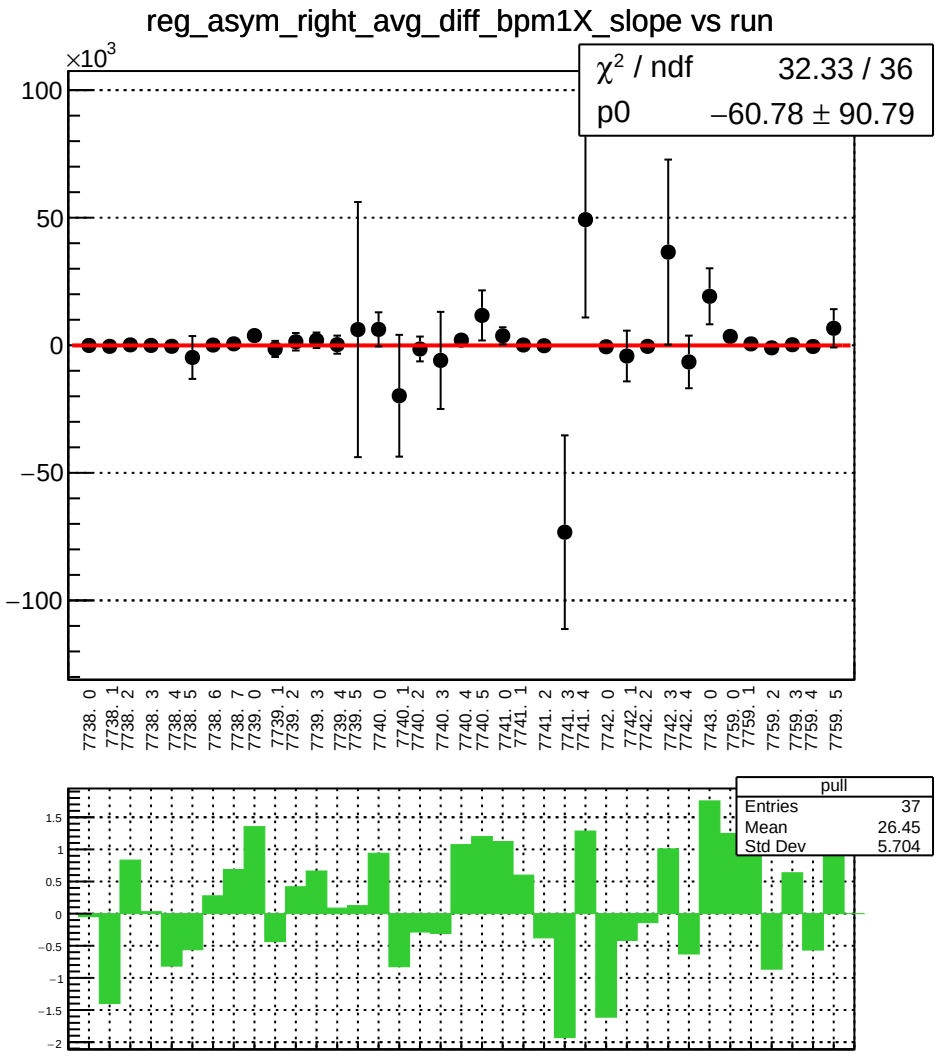

reg_asym_left_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 58.64 / 35
p0 −3.669 ± 56.55
pull
Entries 36
Mean 36.48
Std Dev 17.24

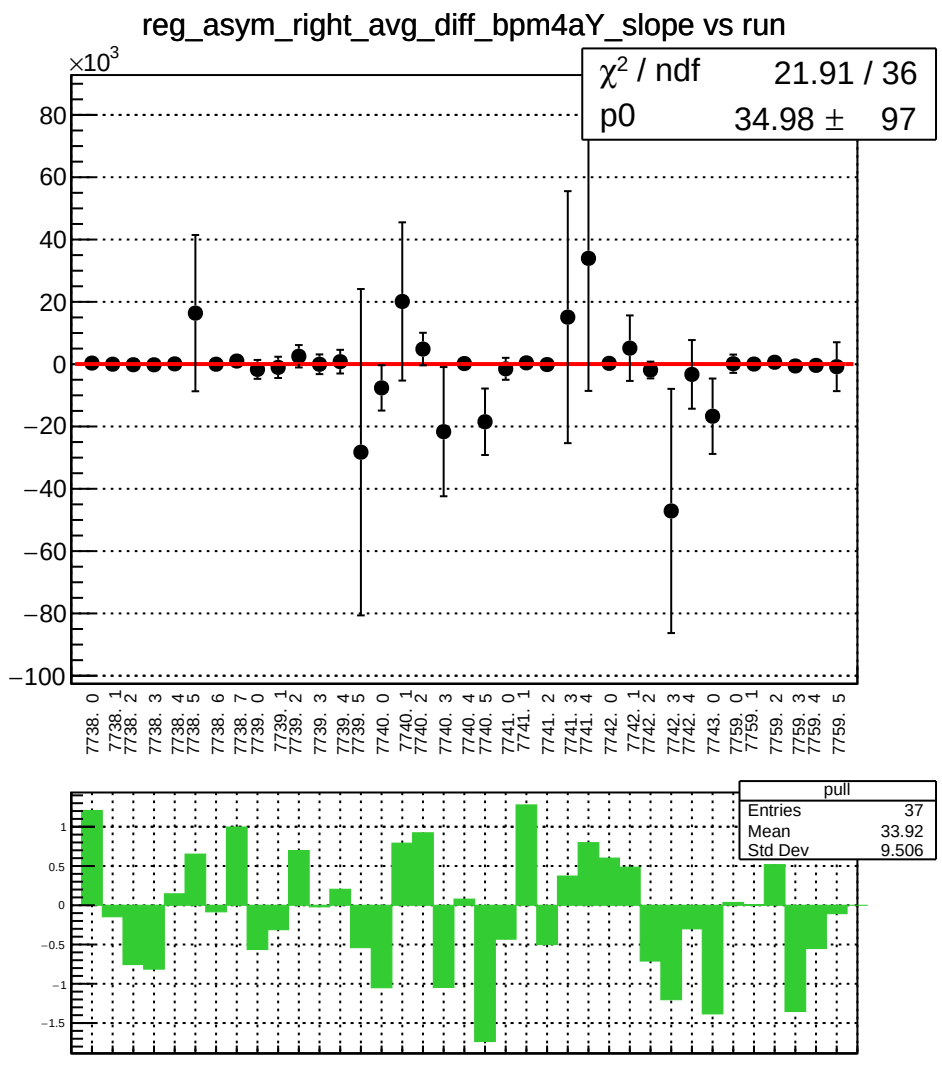

pull1D
Entries 36
Mean −0.15
Std Dev 1.267

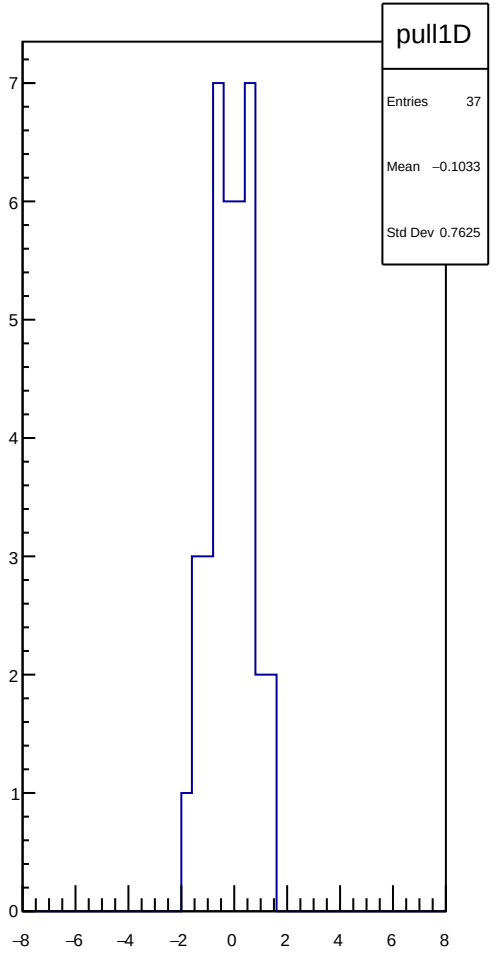

reg_asym_left_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 35.62 / 35
p0 −10.11± 101.7
600
400
200
0
−200
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 36
Mean 15.96
Std Dev 19.94
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 36
Mean 0.04021
Std Dev 0.9939
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

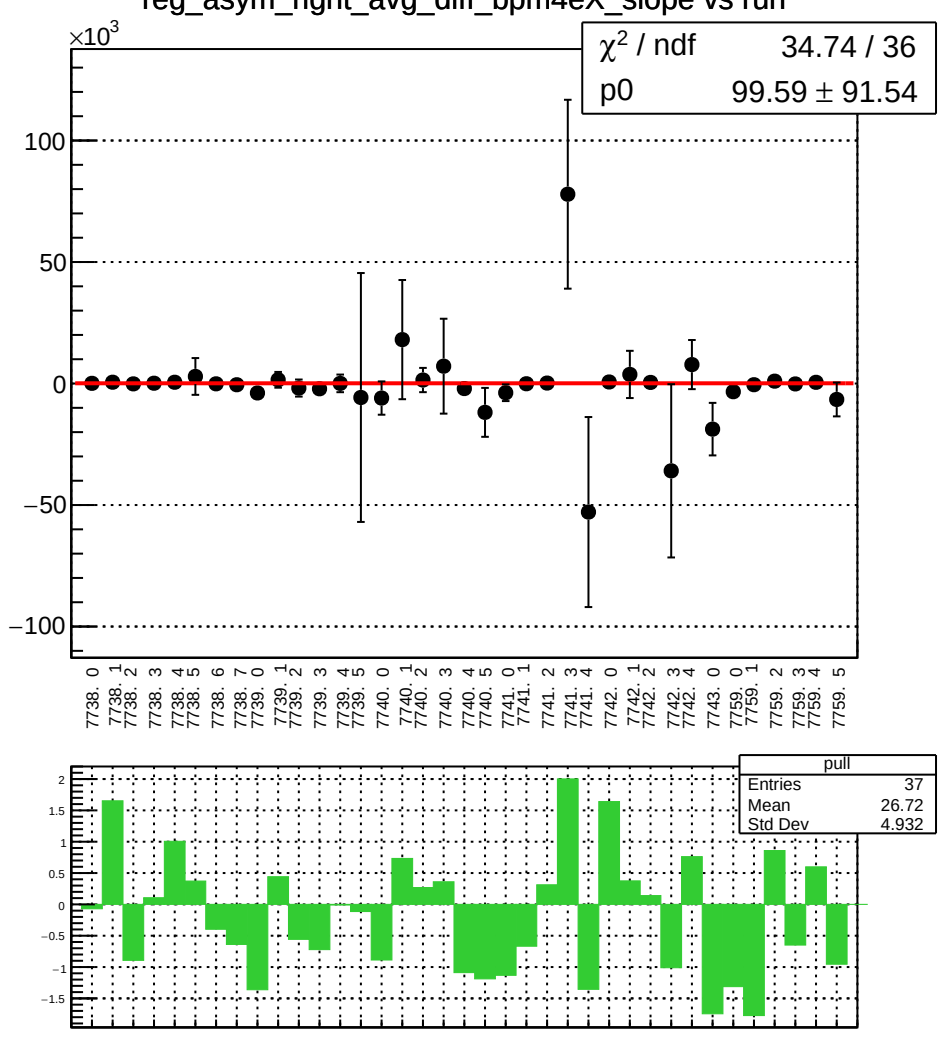

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 44.84 / 36
p0 −21 ± 3.172
20000
0
−20000
−40000
−60000
−80000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 91.03
Std Dev 78.77
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

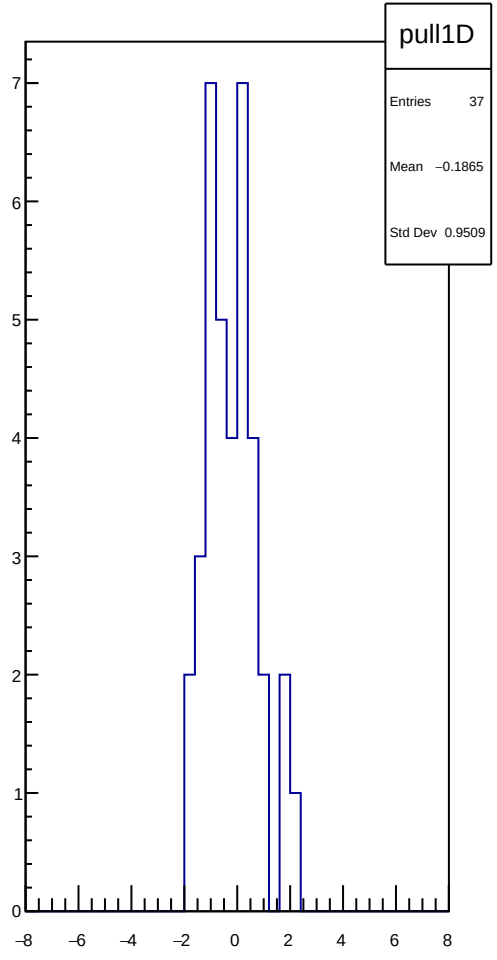

pull1D
Entries 37
Mean 0.01531
Std Dev 1.101
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

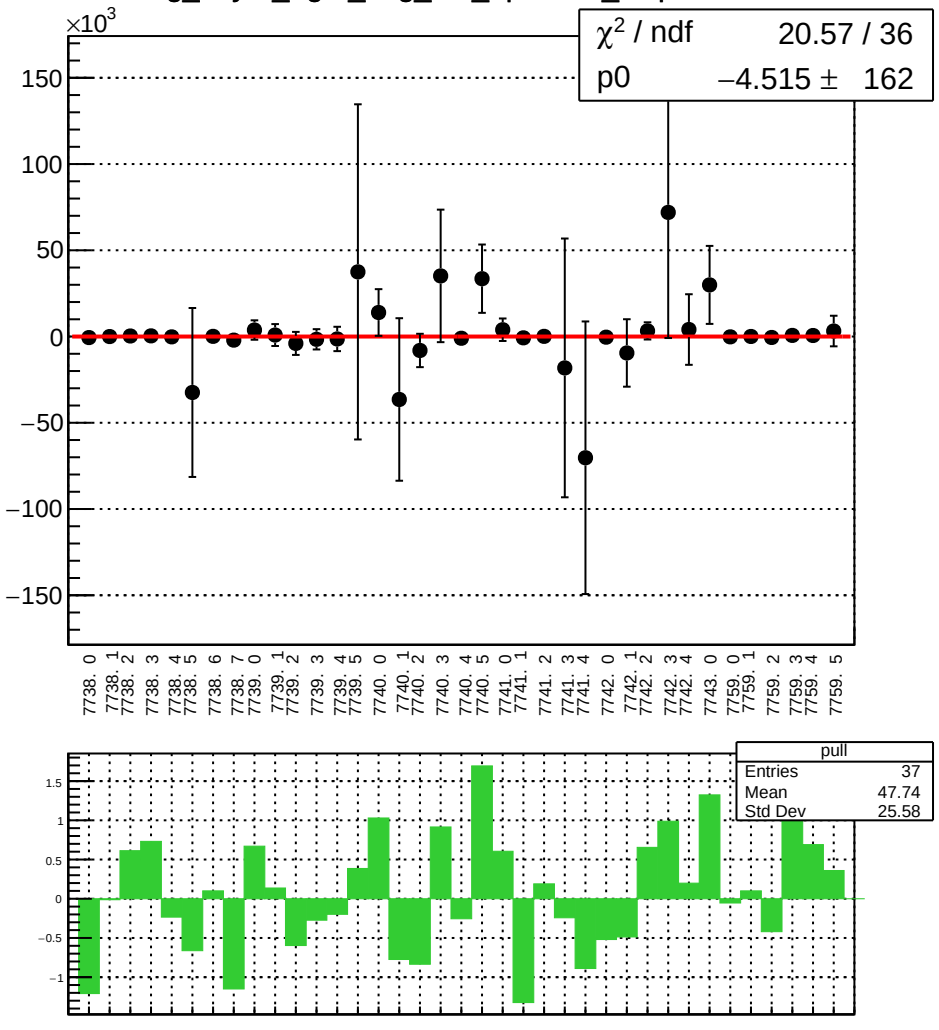

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 32.33 / 36
p0 −60.78 ± 90.79
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.45
Std Dev 5.704
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.1819
Std Dev 0.9168
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

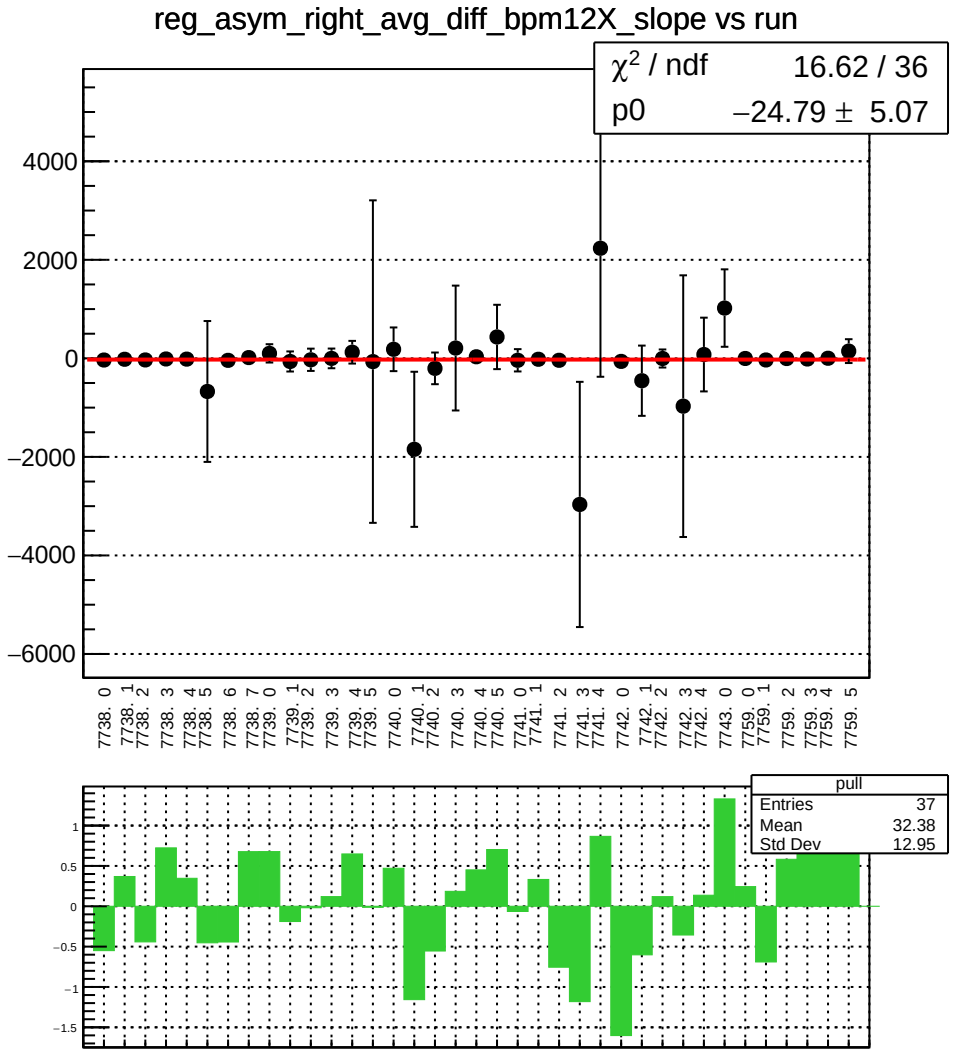

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 21.91 / 36
p0 34.98 ± 97
pull
Entries 37
Mean 33.92
Std Dev 9.506

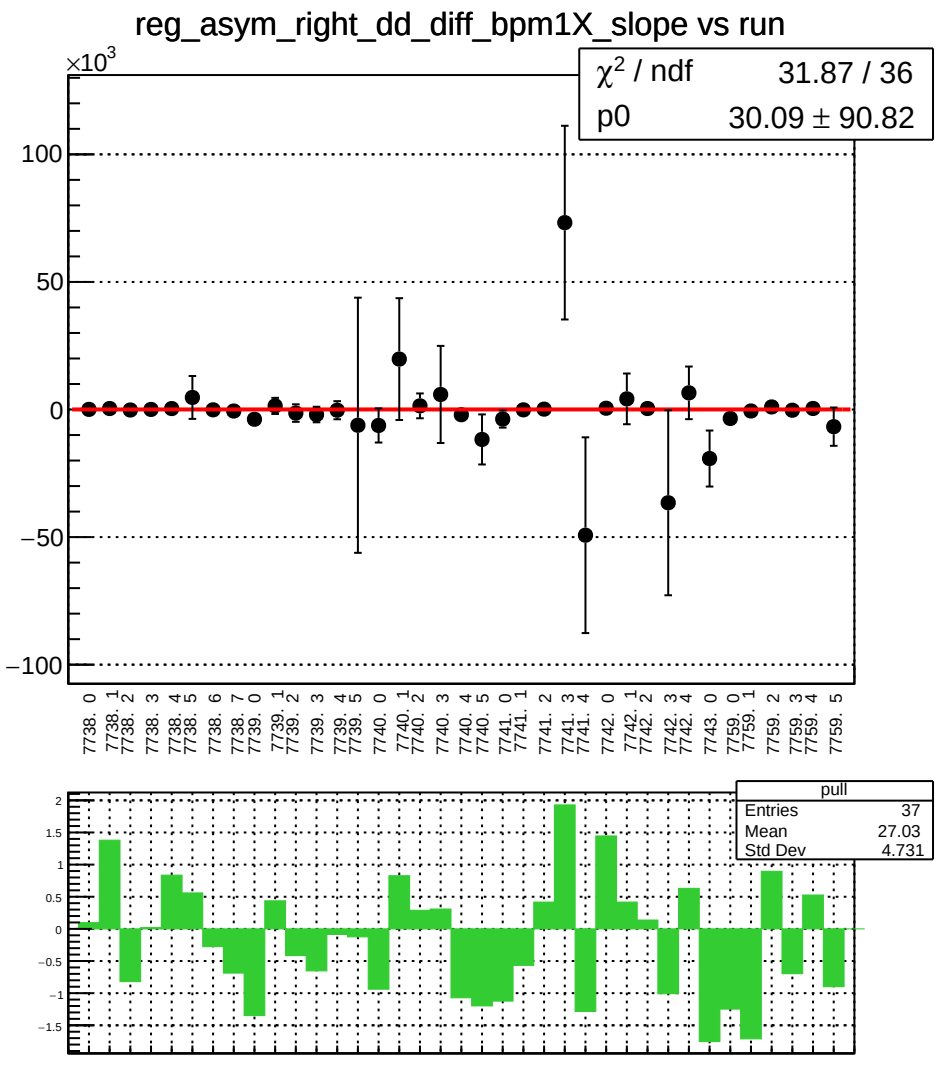

pull1D
Entries 37
Mean −0.1033
Std Dev 0.7625

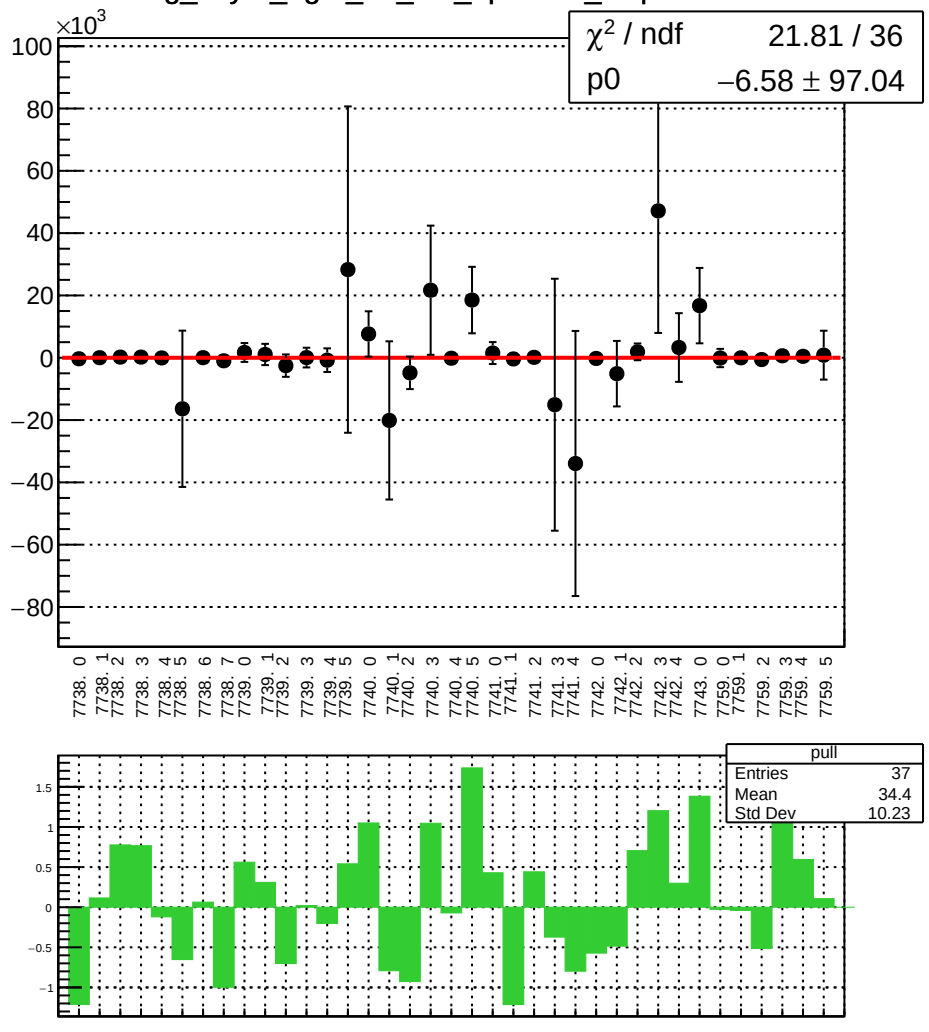

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 34.74 / 36
p0 99.59 ± 91.54
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.72
Std Dev 4.932
2
1.5
1
0.5
0
−0.5
−1
−1.5

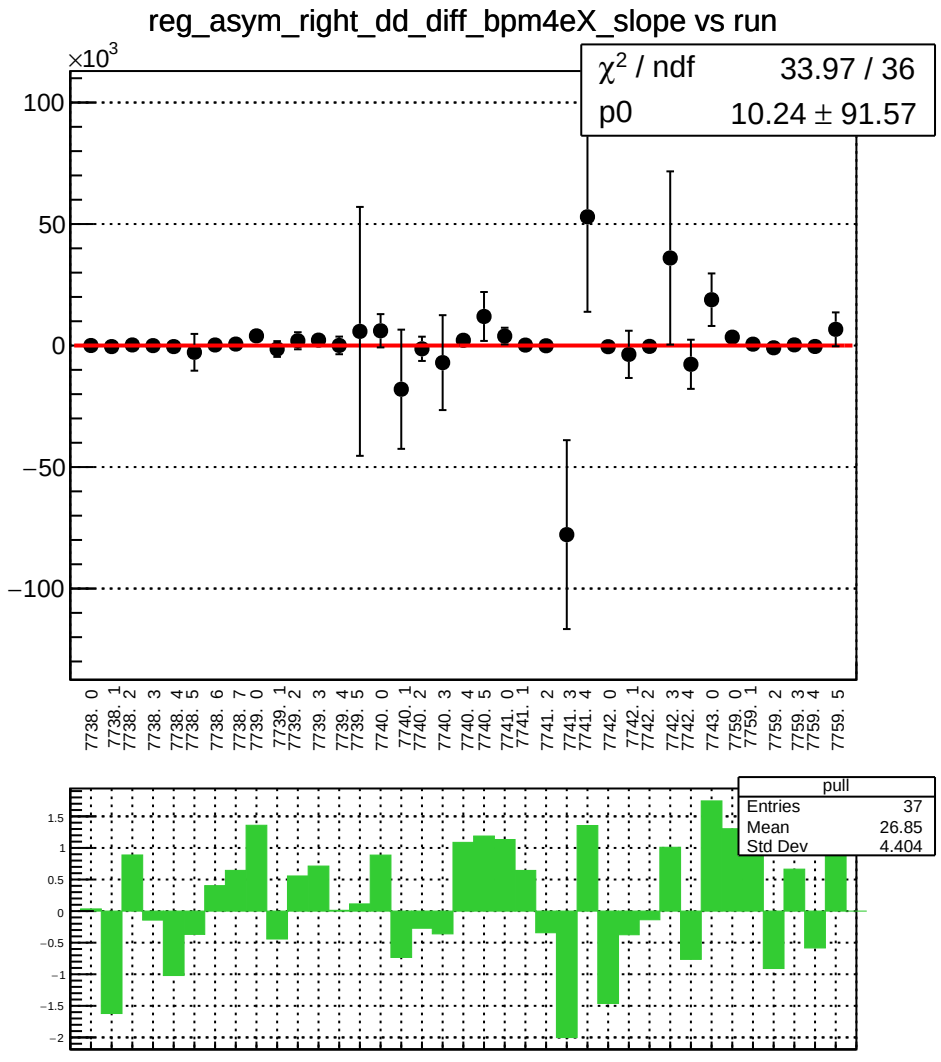

pull1D
Entries 37
Mean −0.1865
Std Dev 0.9509
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

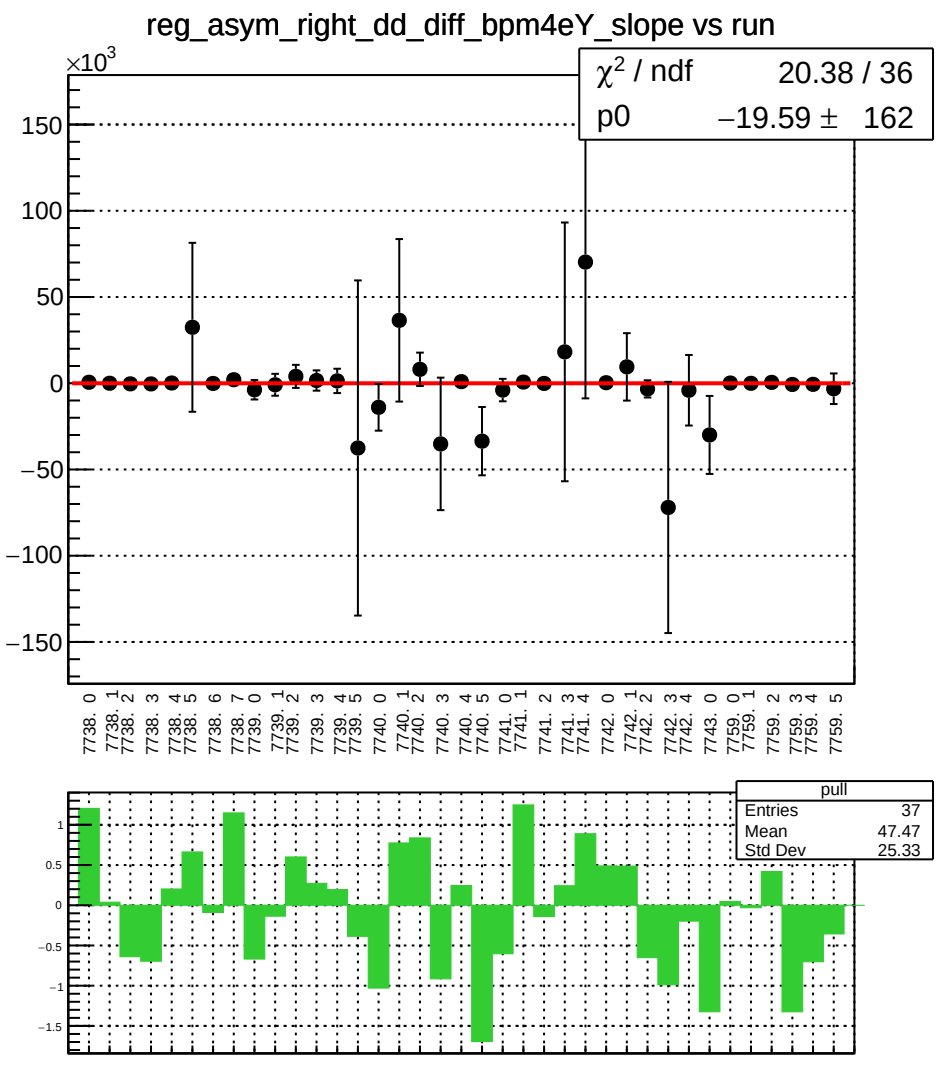

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 20.57 / 36
p0 −4.515 ± 162
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.74
Std Dev 25.58
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.06853
Std Dev 0.7424
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

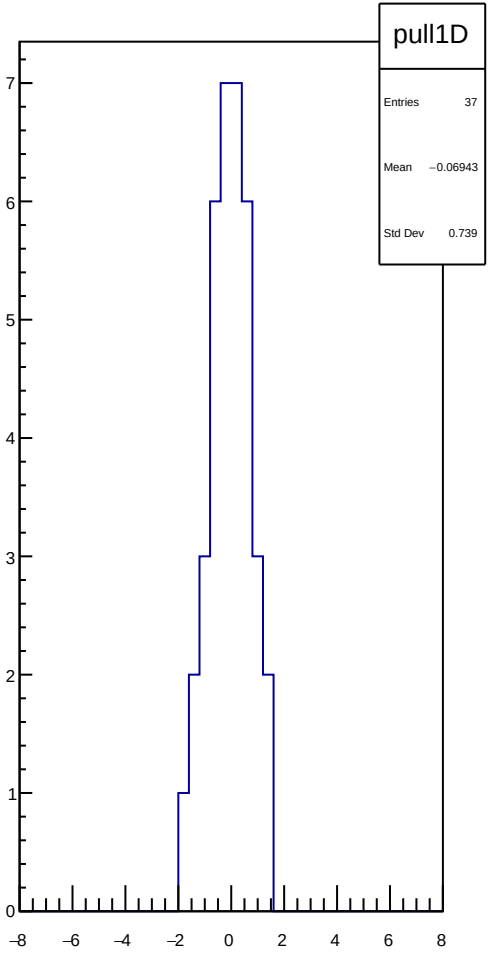

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 16.62 / 36
p0 −24.79 ± 5.07
4000
2000
0
−2000
−4000
−6000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 32.38
Std Dev 12.95
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.06877
Std Dev 0.6668
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

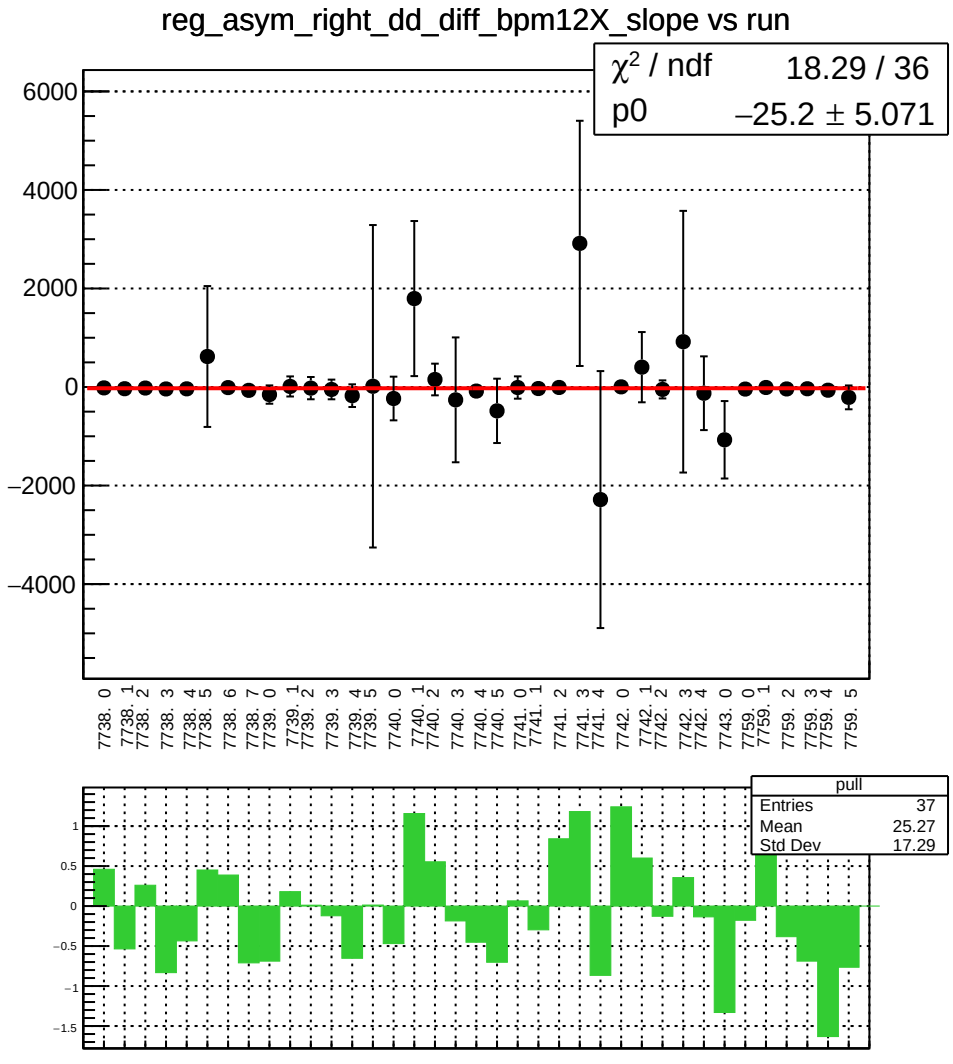

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 31.87 / 36
p0 30.09 ± 90.82
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 27.03
Std Dev 4.731
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.1827
Std Dev 0.9099
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

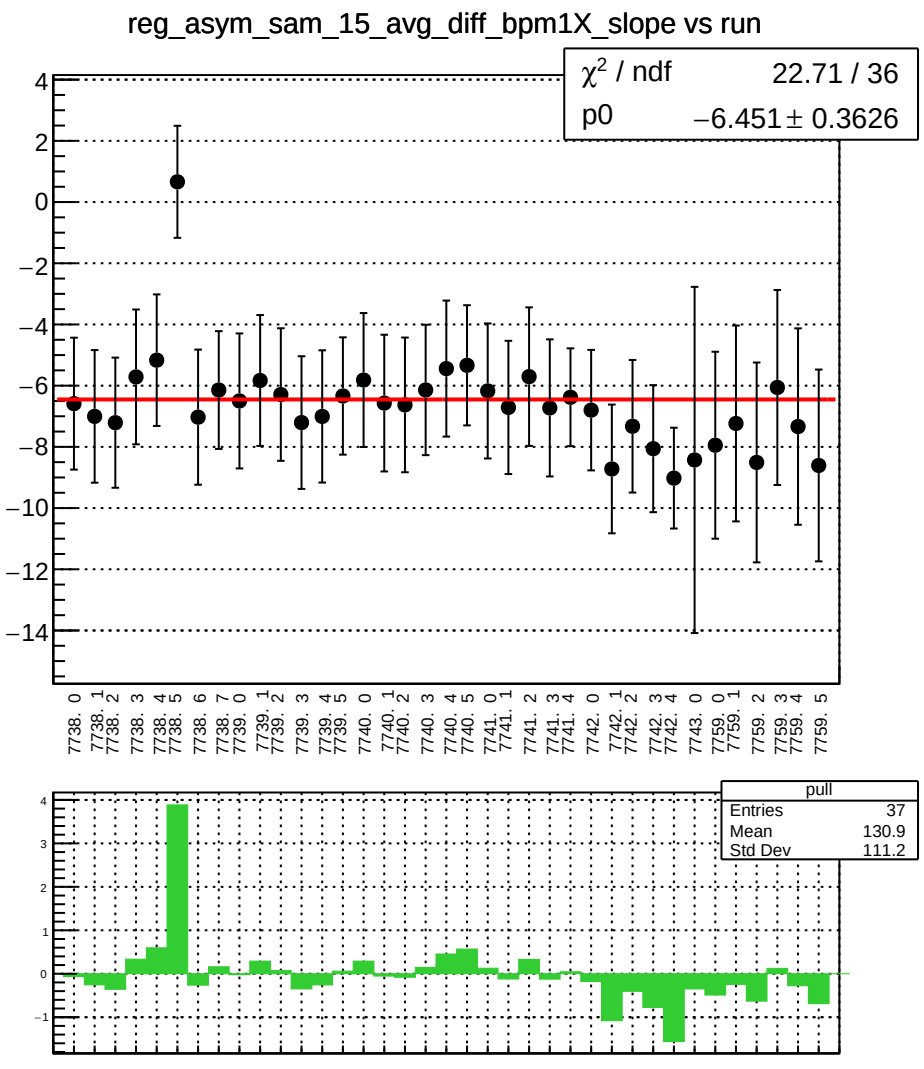

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 21.81 / 36
p0 −6.58 ± 97.04
100
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.4
Std Dev 10.23
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.1043
Std Dev 0.7607
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

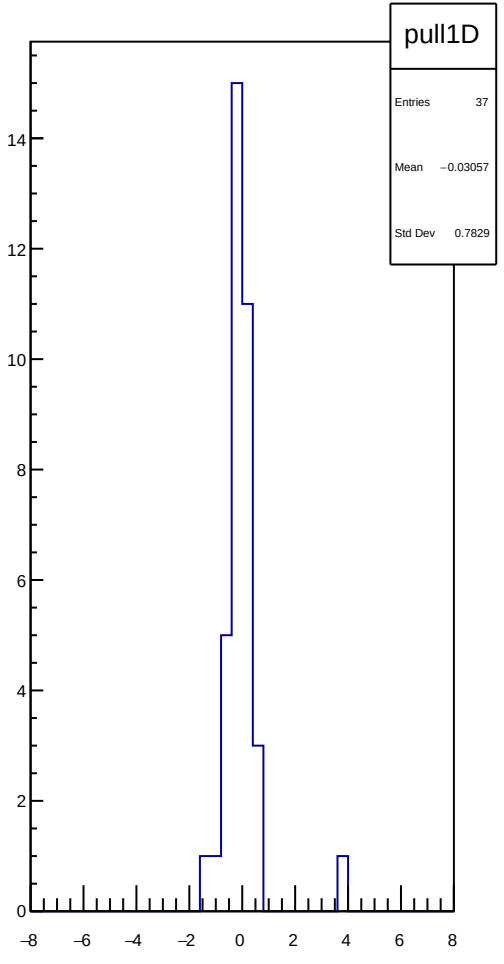

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 33.97 / 36
p0 10.24 ± 91.57
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 26.85
Std Dev 4.404
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean 0.1861
Std Dev 0.94
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

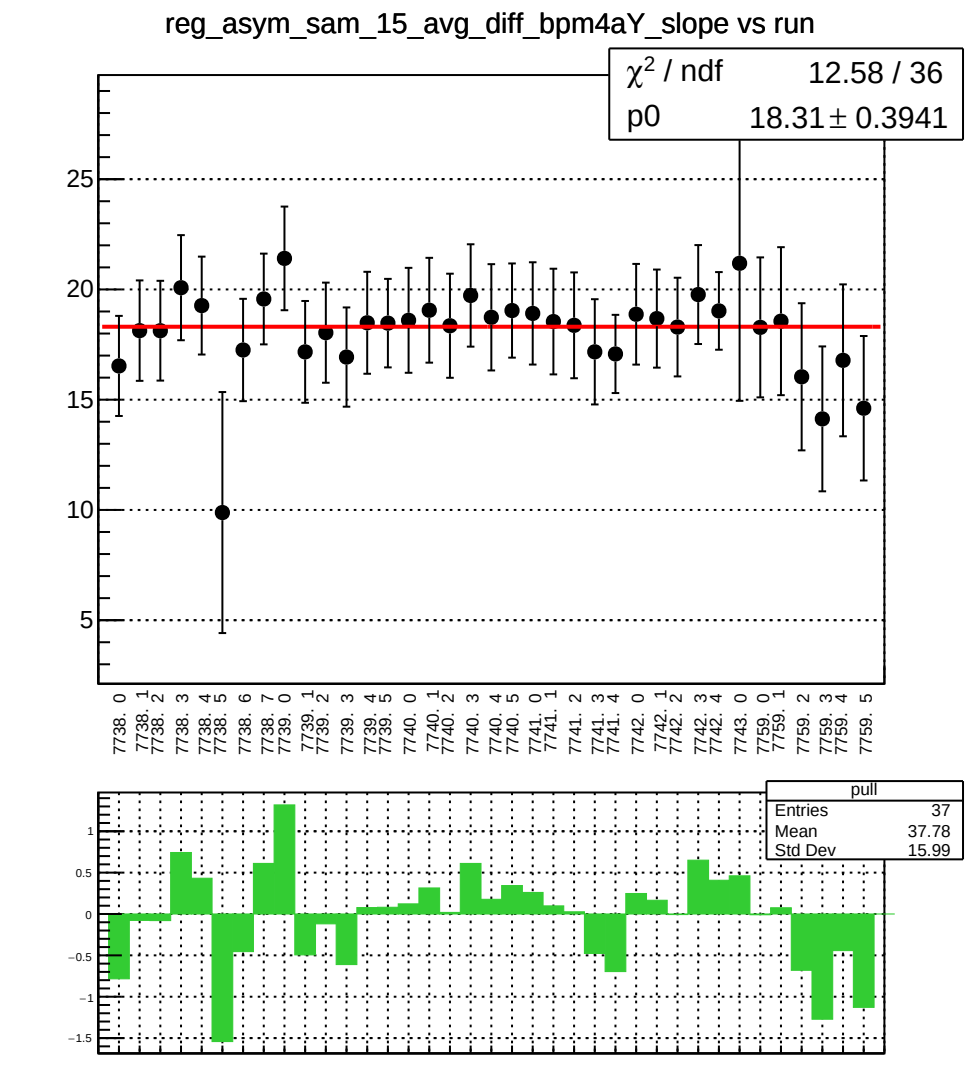

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 20.38 / 36
p0 −19.59 ± 162
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 47.47
Std Dev 25.33
1
0.5
0
−0.5
−1
−1.5

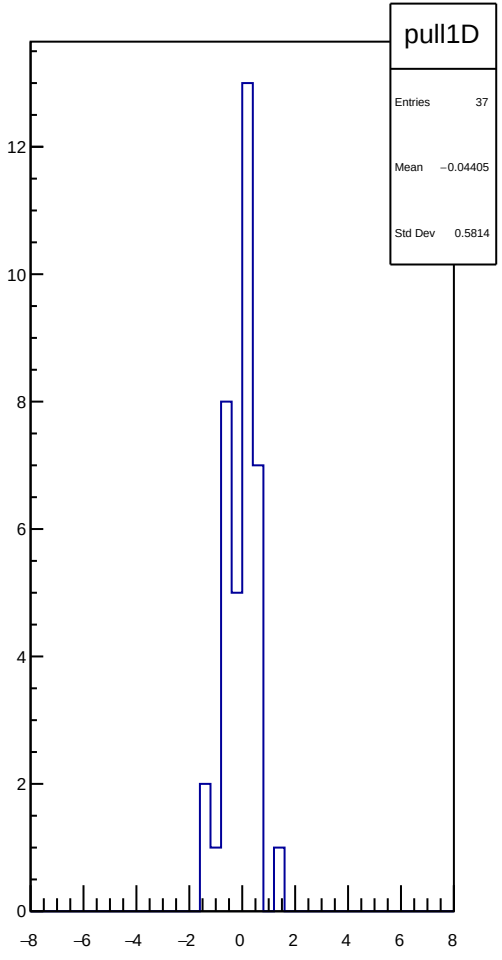

pull1D
Entries 37
Mean −0.06943
Std Dev 0.739
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

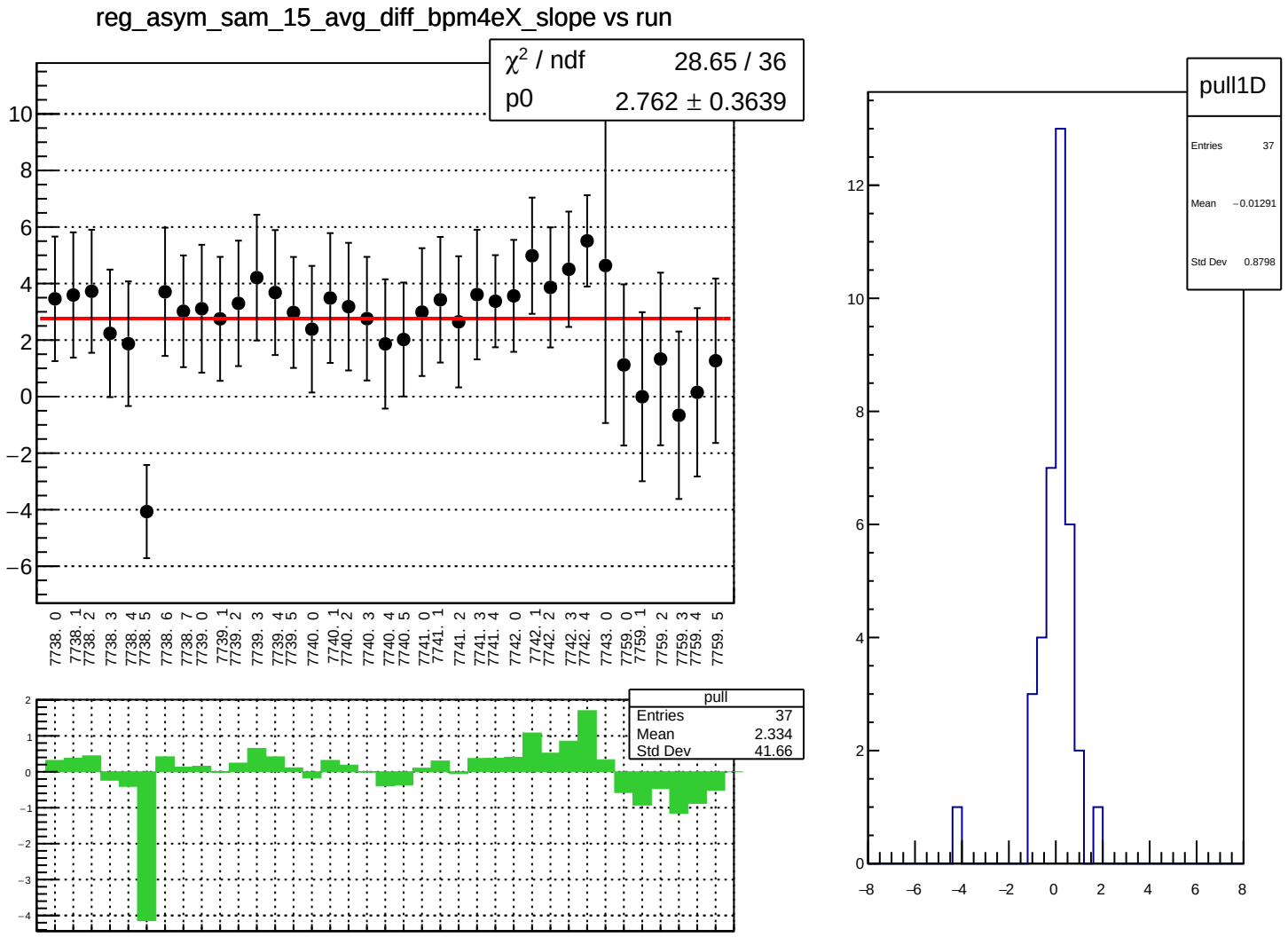

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 18.29 / 36
p0 −25.2 ± 5.071
6000
4000
2000
0
−2000
−4000
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 25.27
Std Dev 17.29
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.08388
Std Dev 0.6981
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

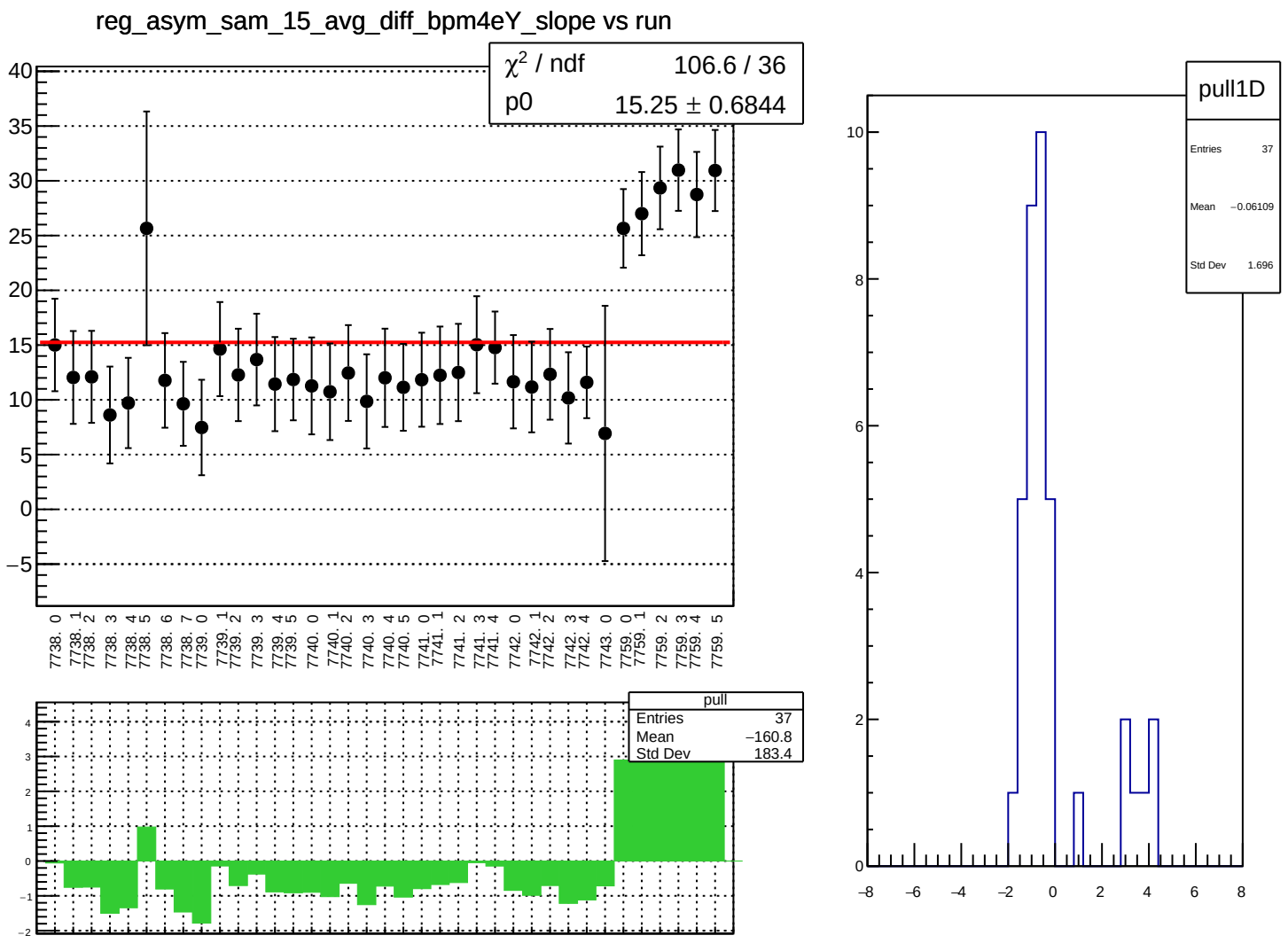

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 22.71 / 36
p0 −6.451 ± 0.3626
pull
Entries 37
Mean 130.9
Std Dev 111.2

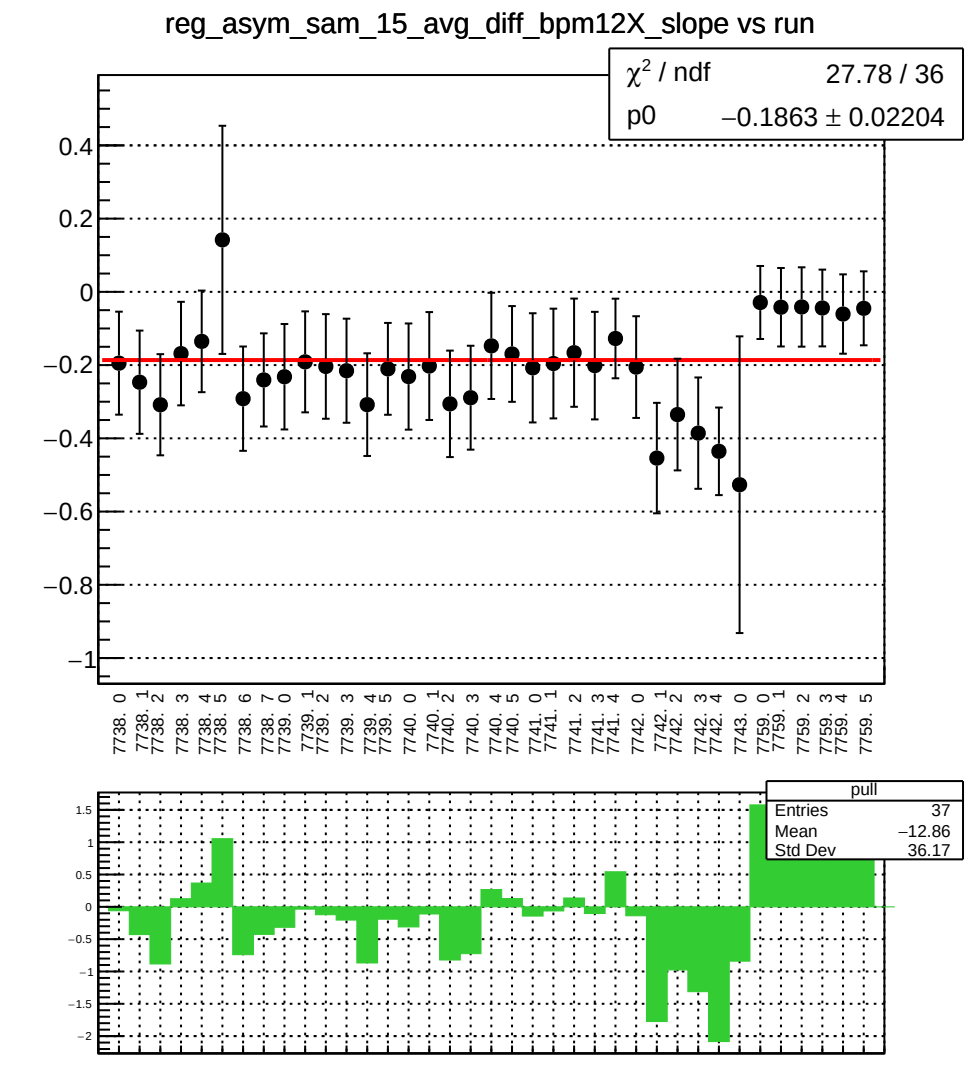

pull1D
Entries 37
Mean −0.03057
Std Dev 0.7829

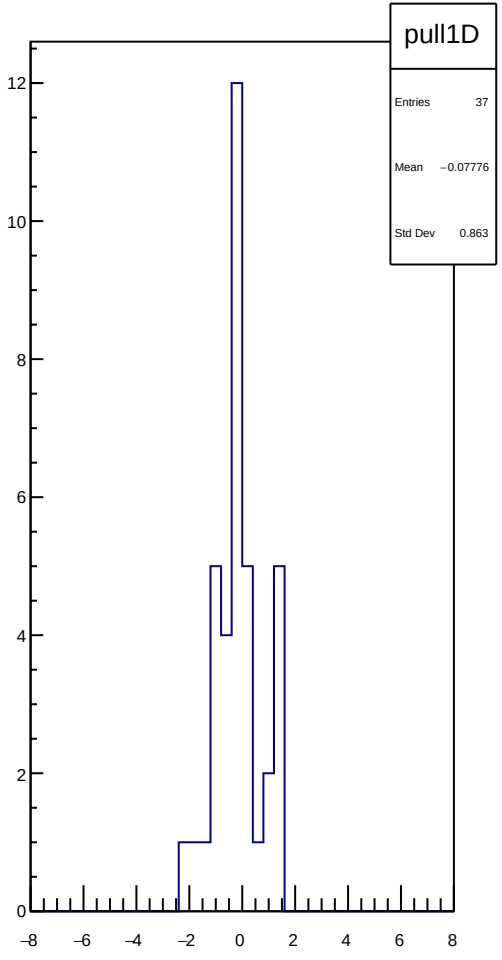

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.58 / 36
p0 18.31 ± 0.3941
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 37.78
Std Dev 15.99
1
0.5
0
−0.5
−1
−1.5

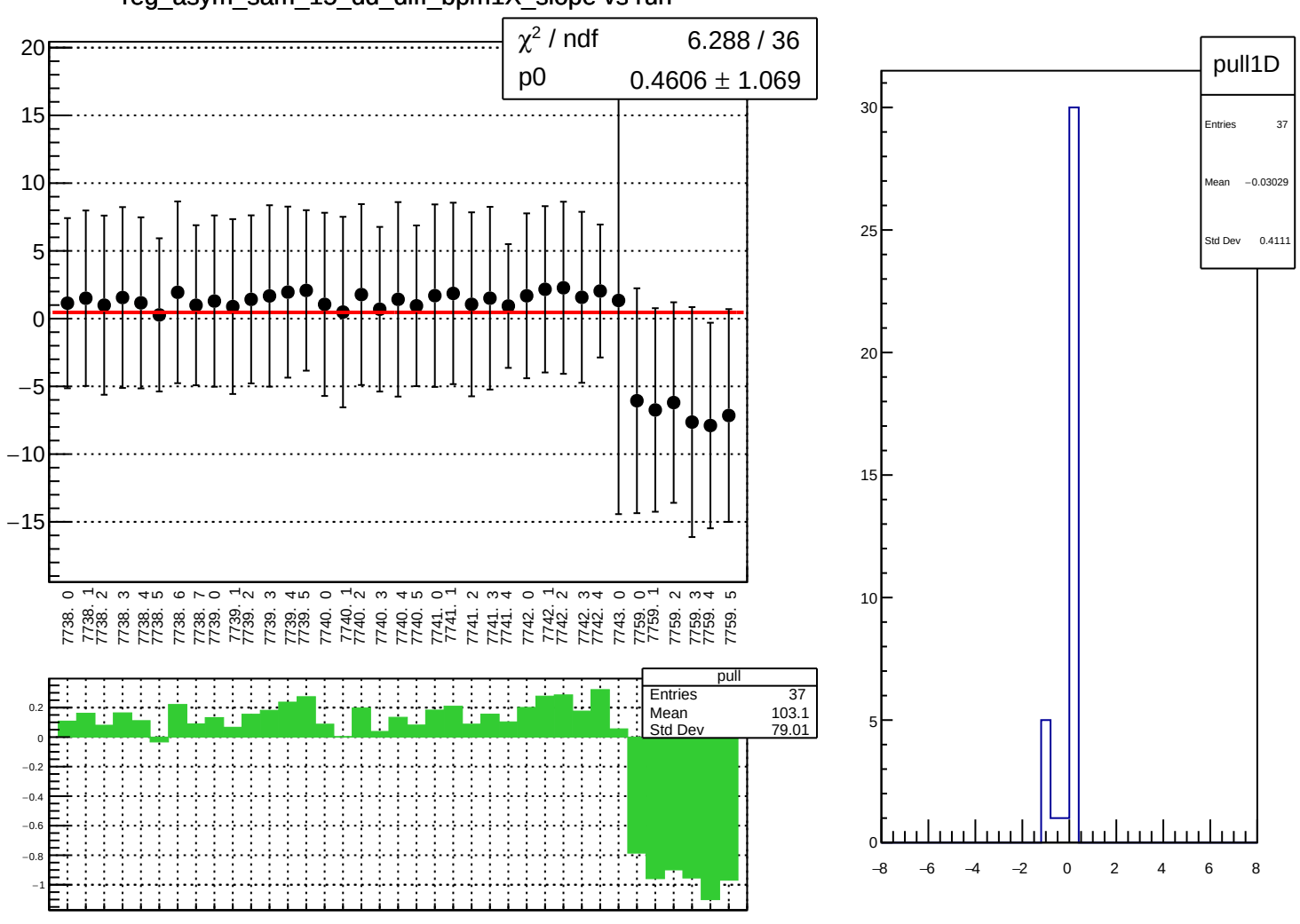

pull1D
Entries 37
Mean −0.04405
Std Dev 0.5814
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

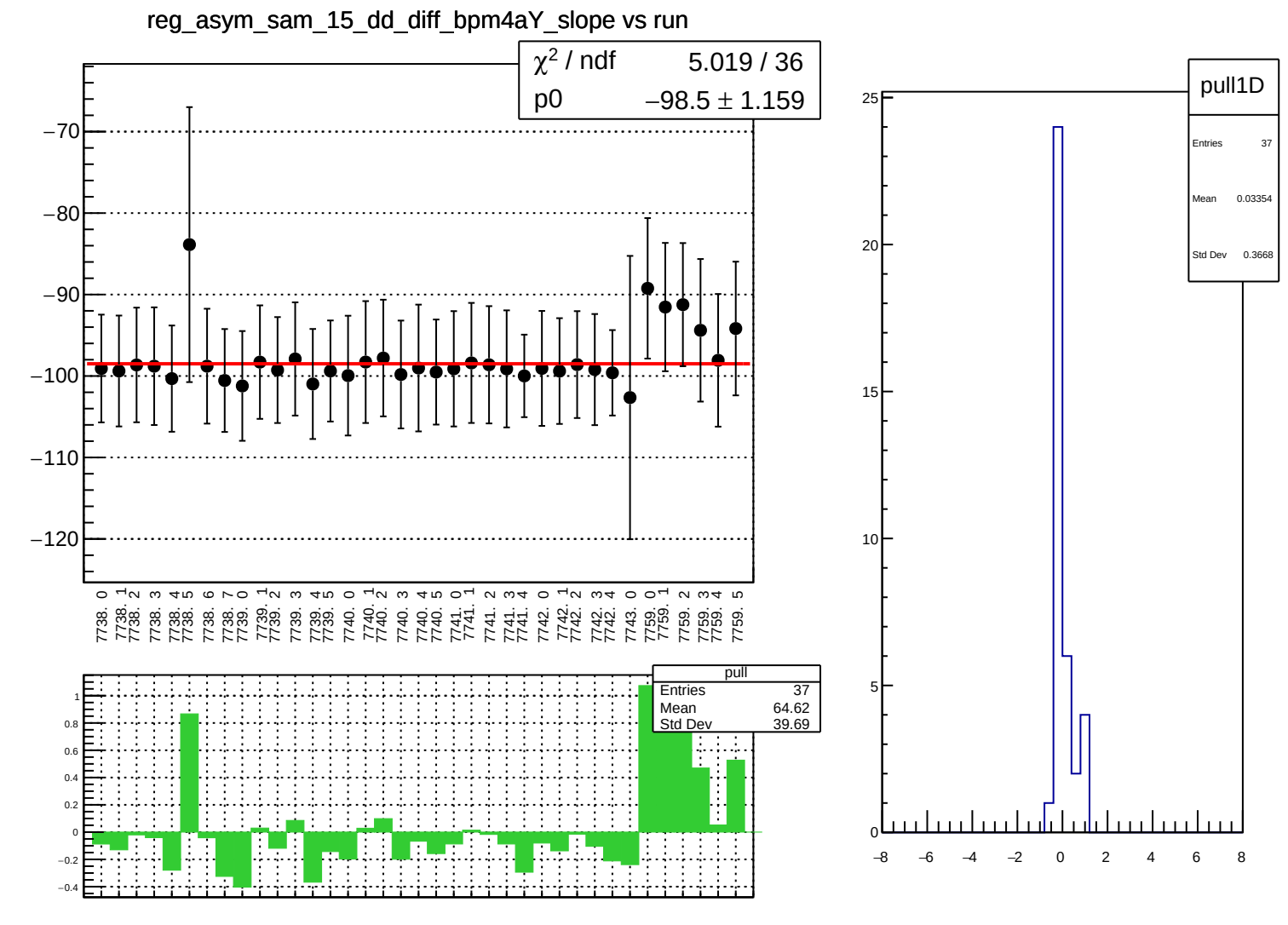

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.65 / 36
p0 2.762 ± 0.3639
pull
Entries 37
Mean 2.334
Std Dev 41.66
pull1D
Entries 37
Mean −0.01291
Std Dev 0.8798

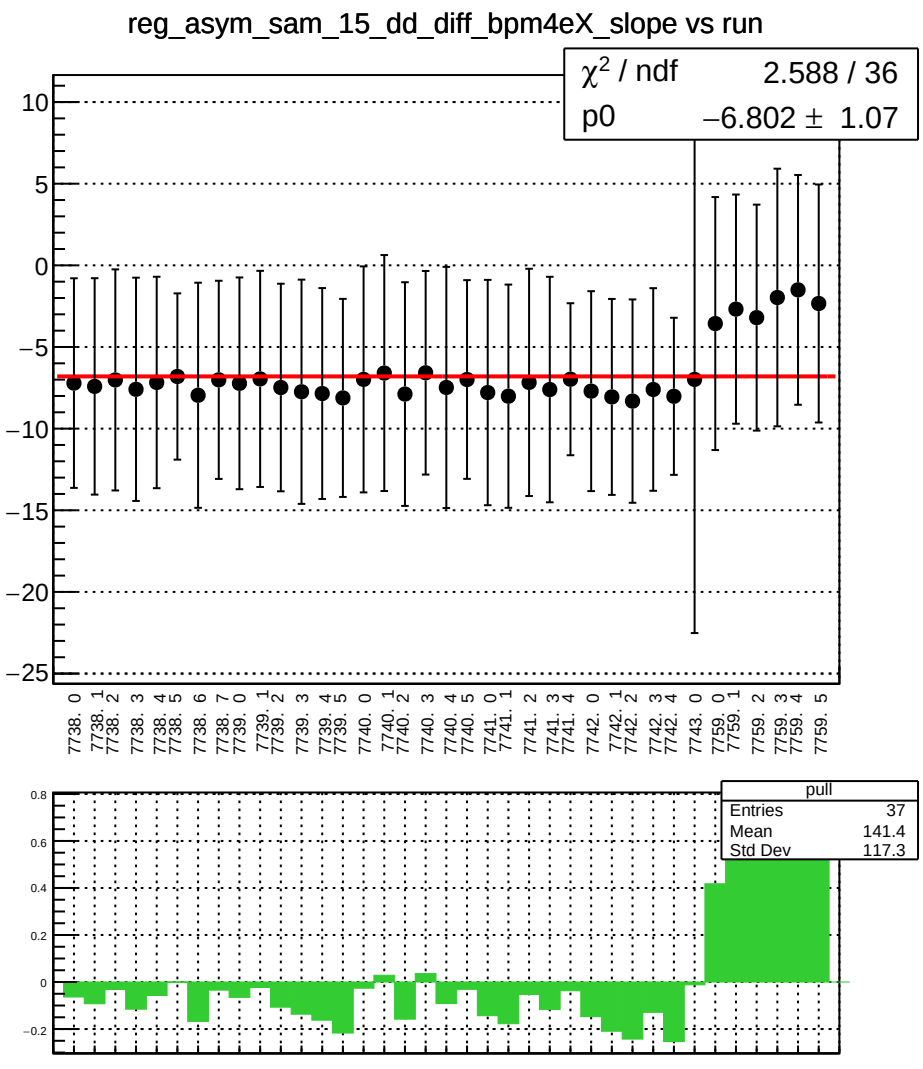

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 106.6 / 36
p0 15.25 ± 0.6844
pull
Entries 37
Mean −160.8
Std Dev 183.4
pull1D
Entries 37
Mean −0.06109
Std Dev 1.696

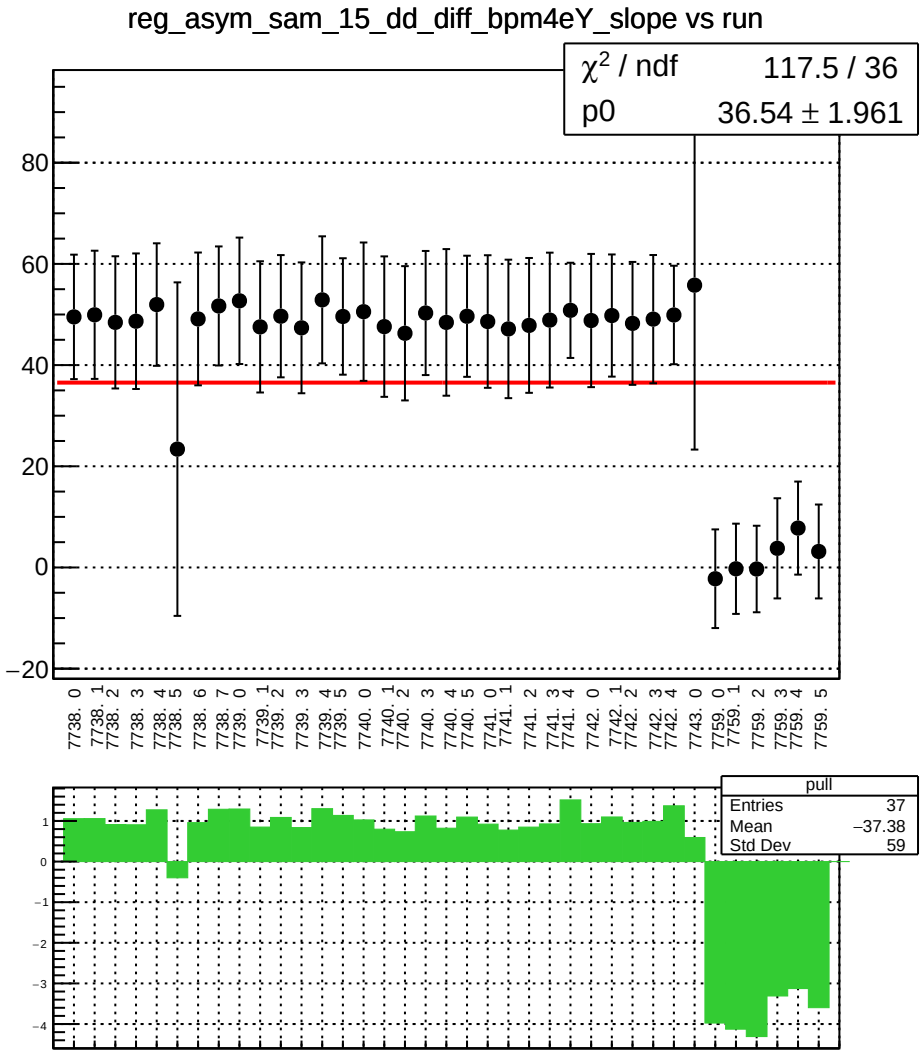

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 27.78 / 36
p0 −0.1863 ± 0.02204
pull
Entries 37
Mean −12.86
Std Dev 36.17

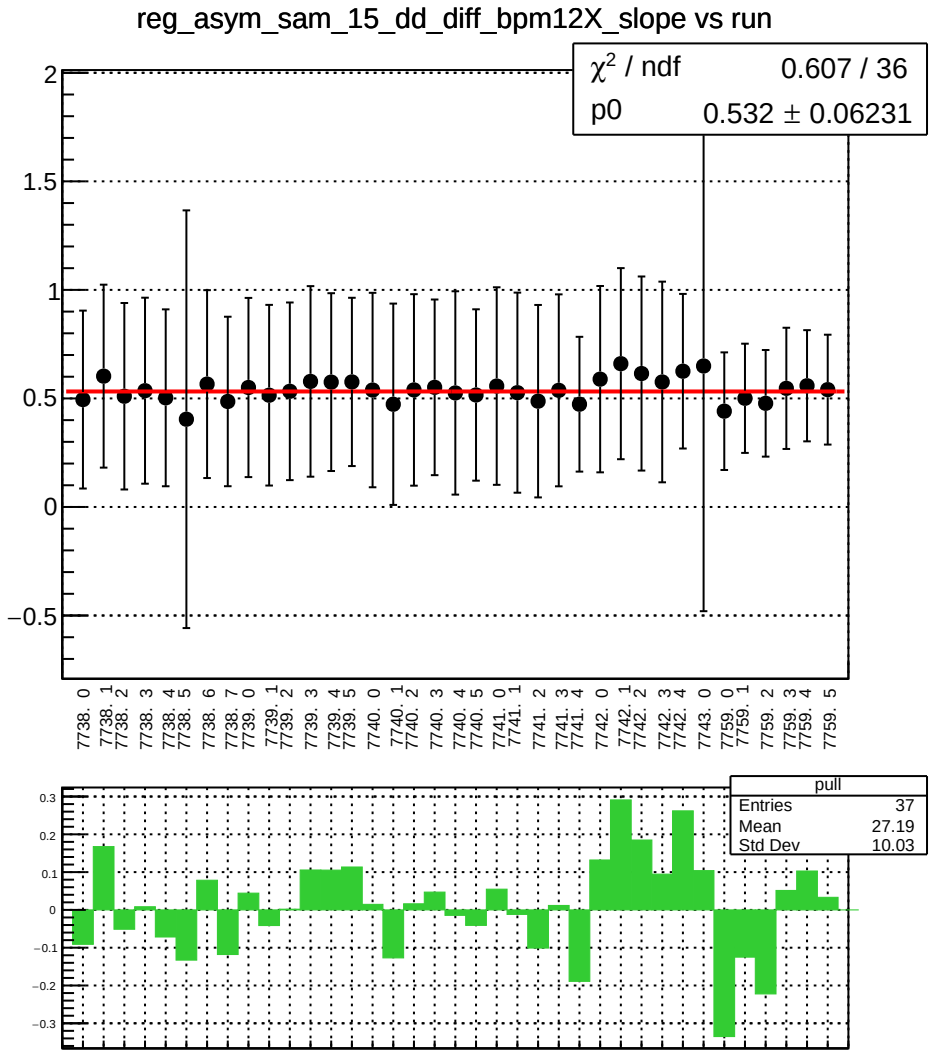

pull1D
Entries 37
Mean −0.07776
Std Dev 0.863

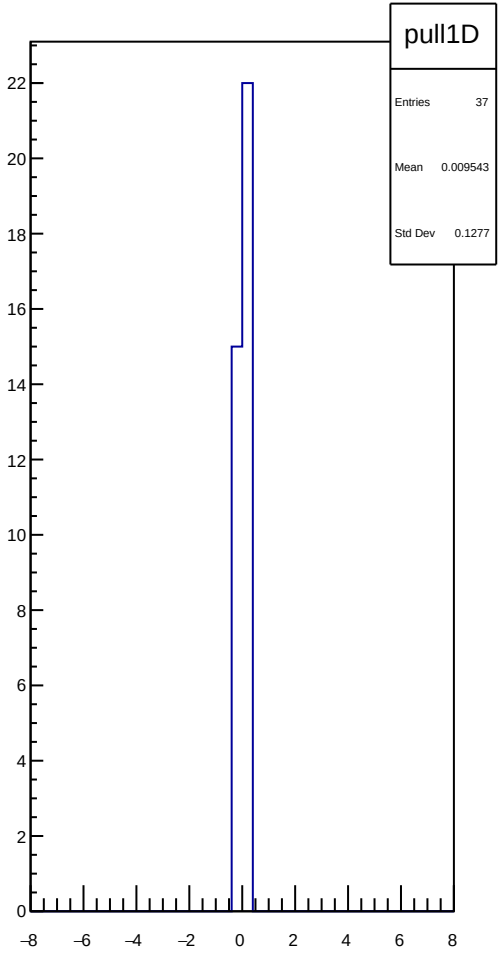

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 6.288 / 36
p0 0.4606 ± 1.069
pull
Entries 37
Mean 103.1
Std Dev 79.01
pull1D
Entries 37
Mean −0.03029
Std Dev 0.4111

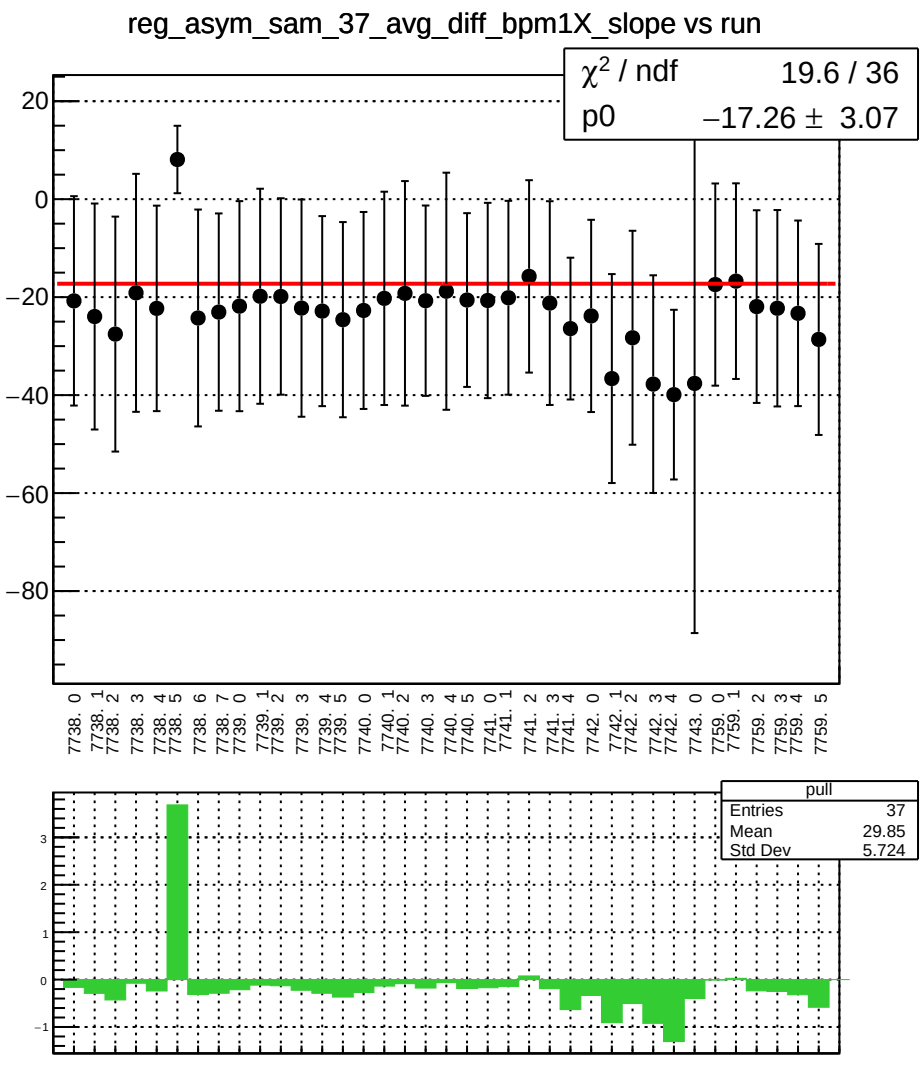

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.019 / 36
p0 −98.5 ± 1.159
−70
−80
−90
−100
−110
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 64.62
Std Dev 39.69
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.03354
Std Dev 0.3668
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

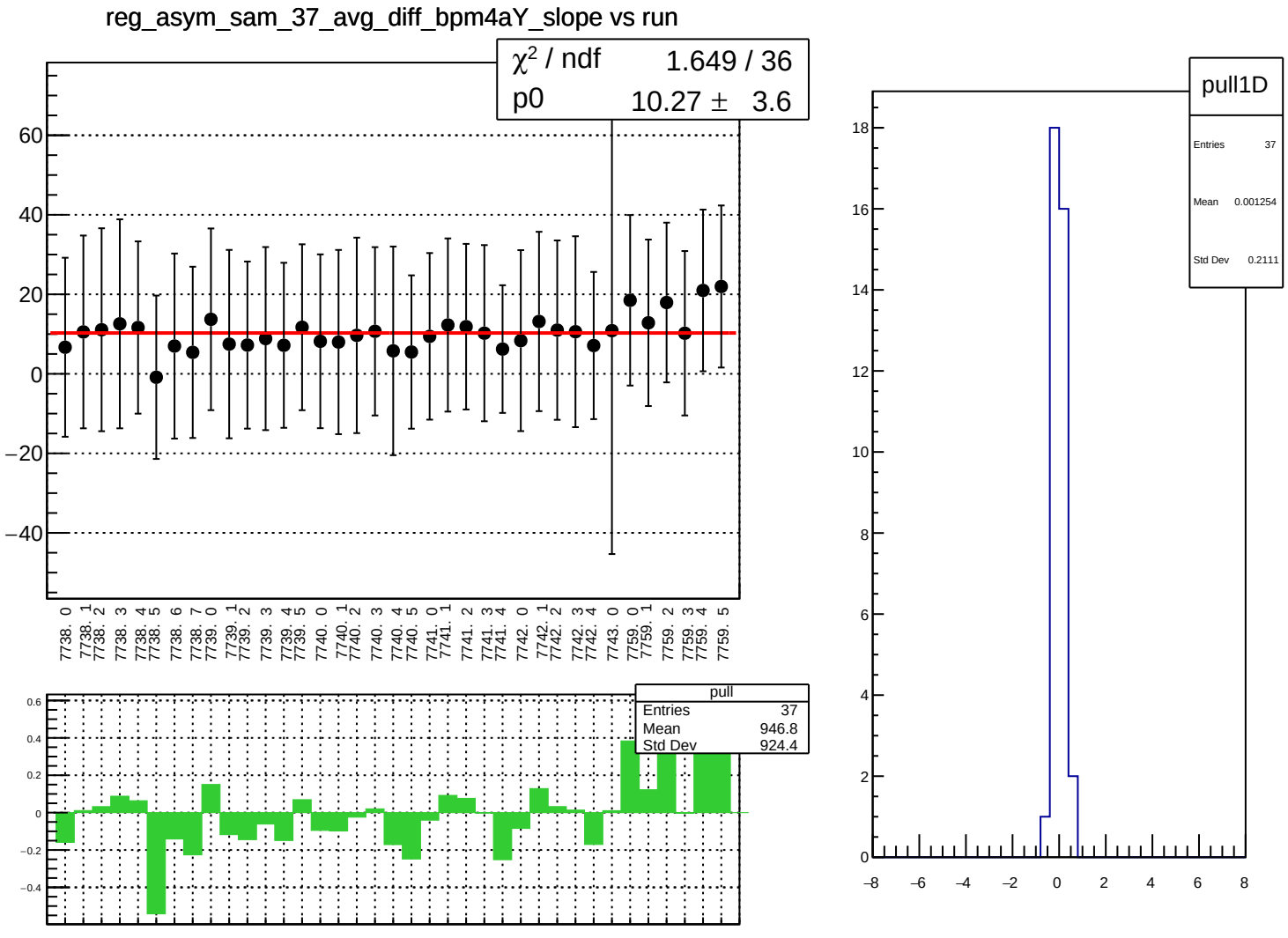

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.588 / 36
p0 −6.802 ± 1.07
10
5
0
−5
−10
−15
−20
−25
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 141.4
Std Dev 117.3
0.8
0.6
0.4
0.2
0
−0.2
pull1D
Entries 37
Mean 0.0126
Std Dev 0.2642
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

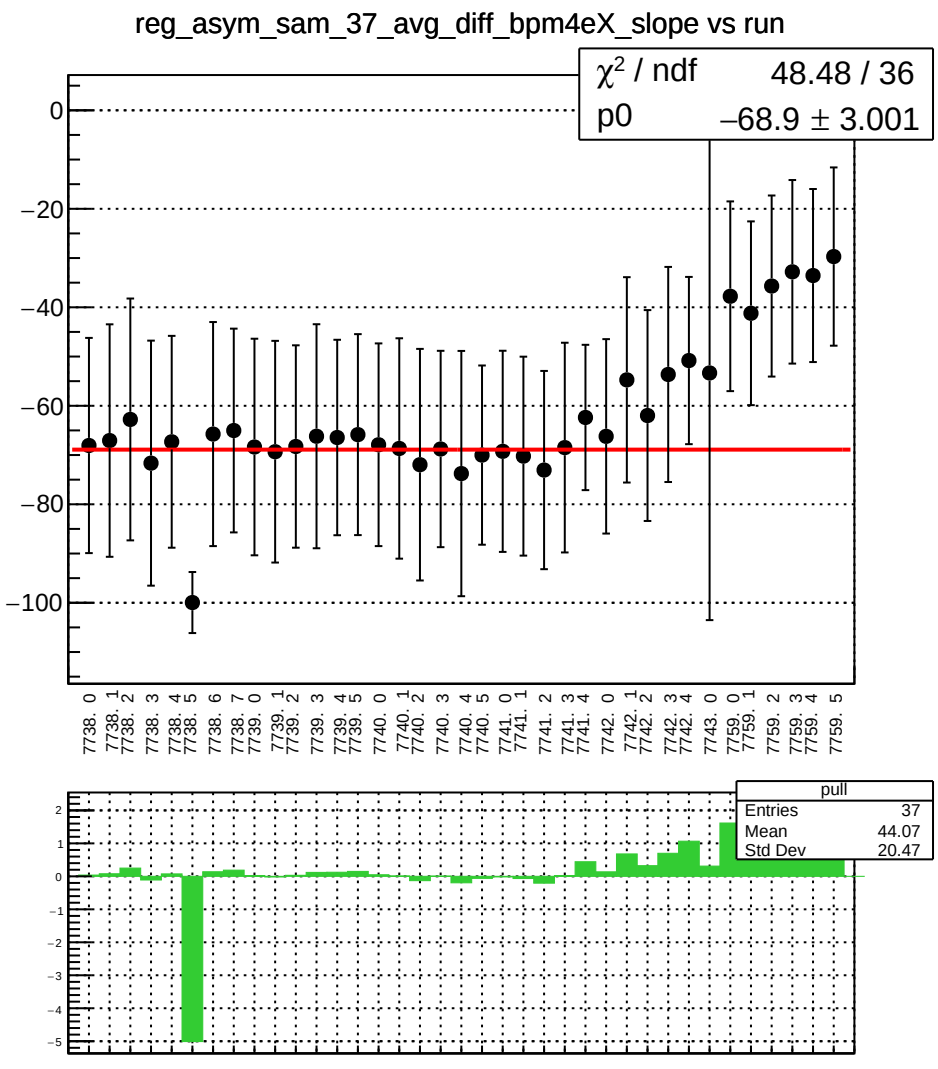

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 117.5 / 36
p0 36.54 ± 1.961
80
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −37.38
Std Dev 59
1
0
−1
−2
−3
−4
pull1D
Entries 37
Mean 0.2068
Std Dev 1.77
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

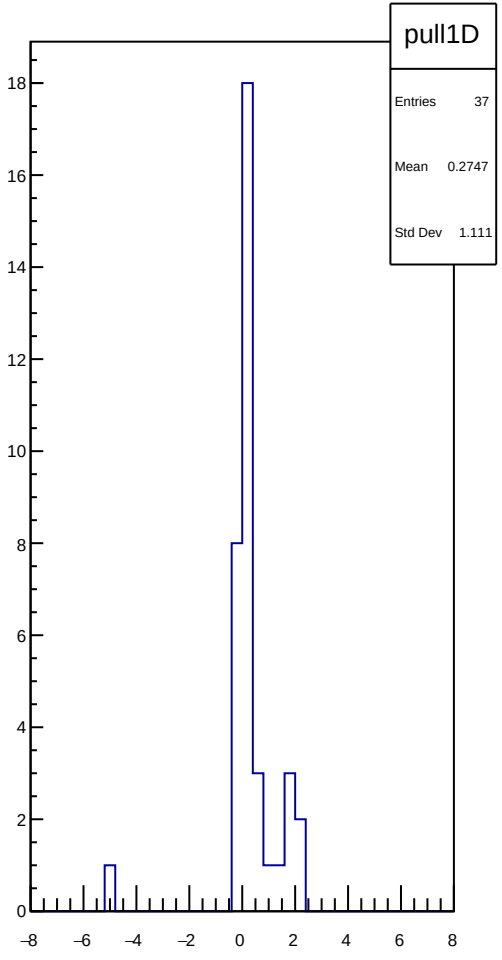

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 0.607 / 36
p0 0.532 ± 0.06231
pull
Entries 37
Mean 27.19
Std Dev 10.03

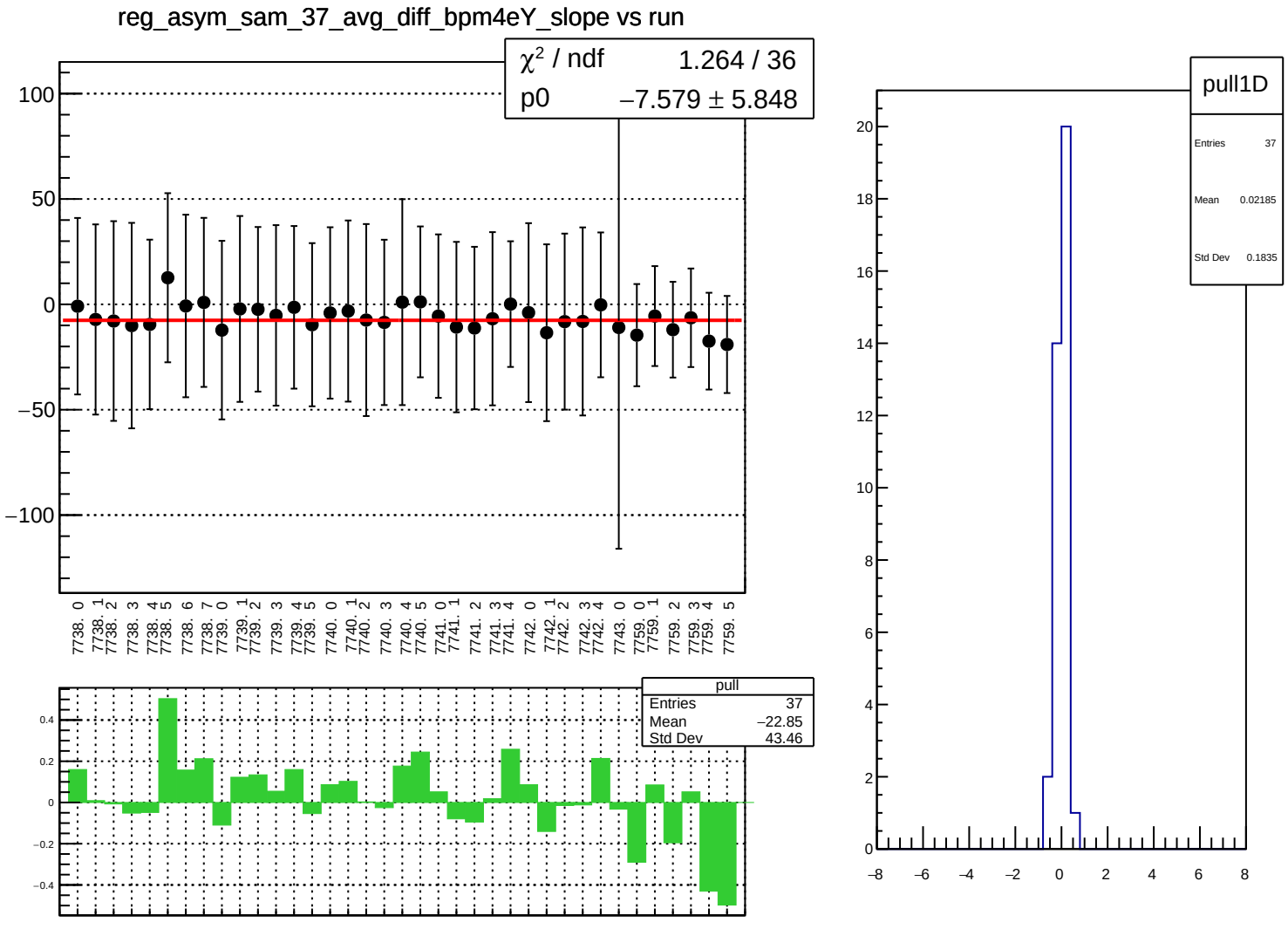

pull1D
Entries 37
Mean 0.009543
Std Dev 0.1277

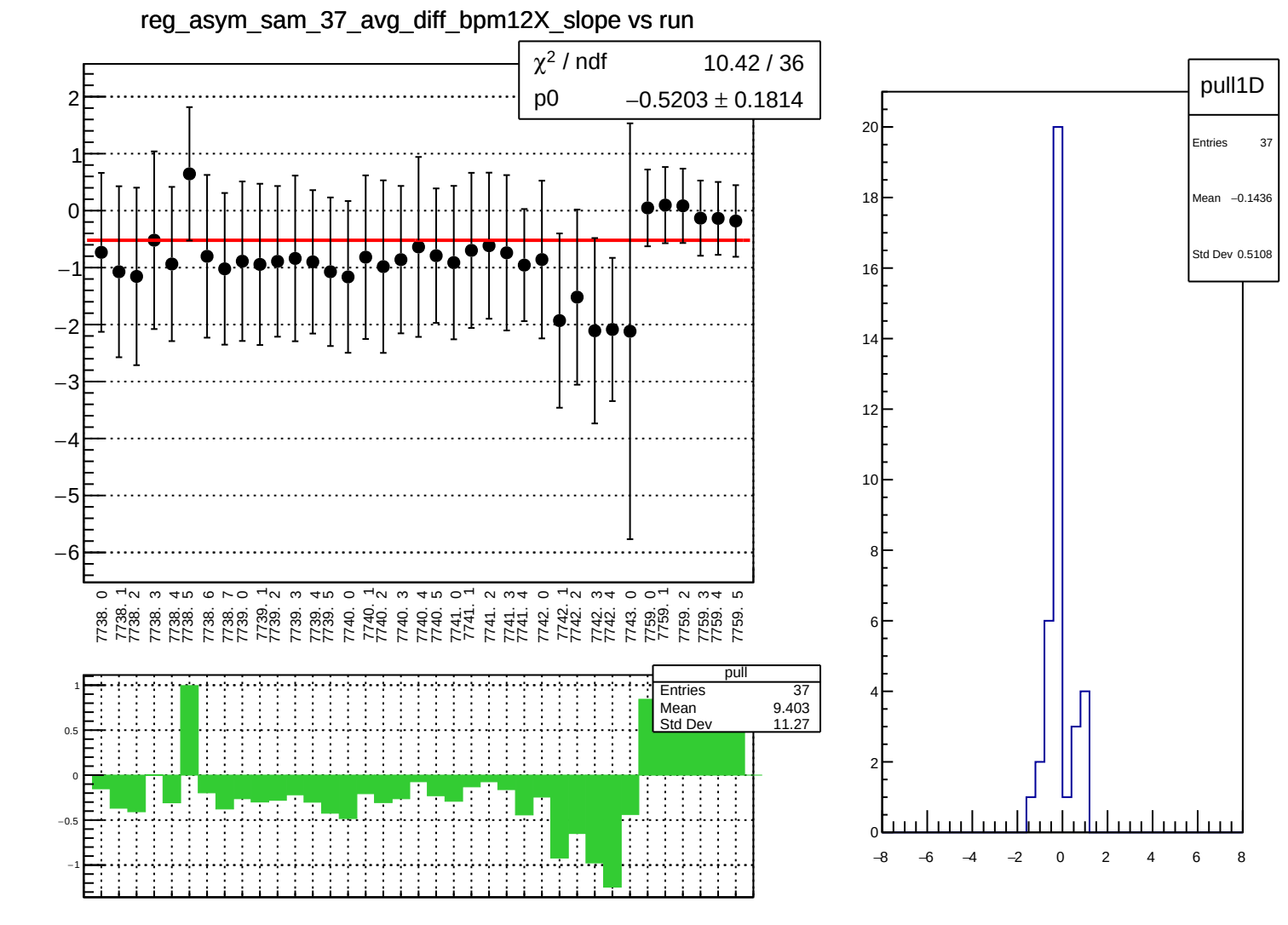

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 19.6 / 36
p0 −17.26 ± 3.07
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 29.85
Std Dev 5.724
3
2
1
0
−1
pull1D
Entries 37
Mean −0.1945
Std Dev 0.7013
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

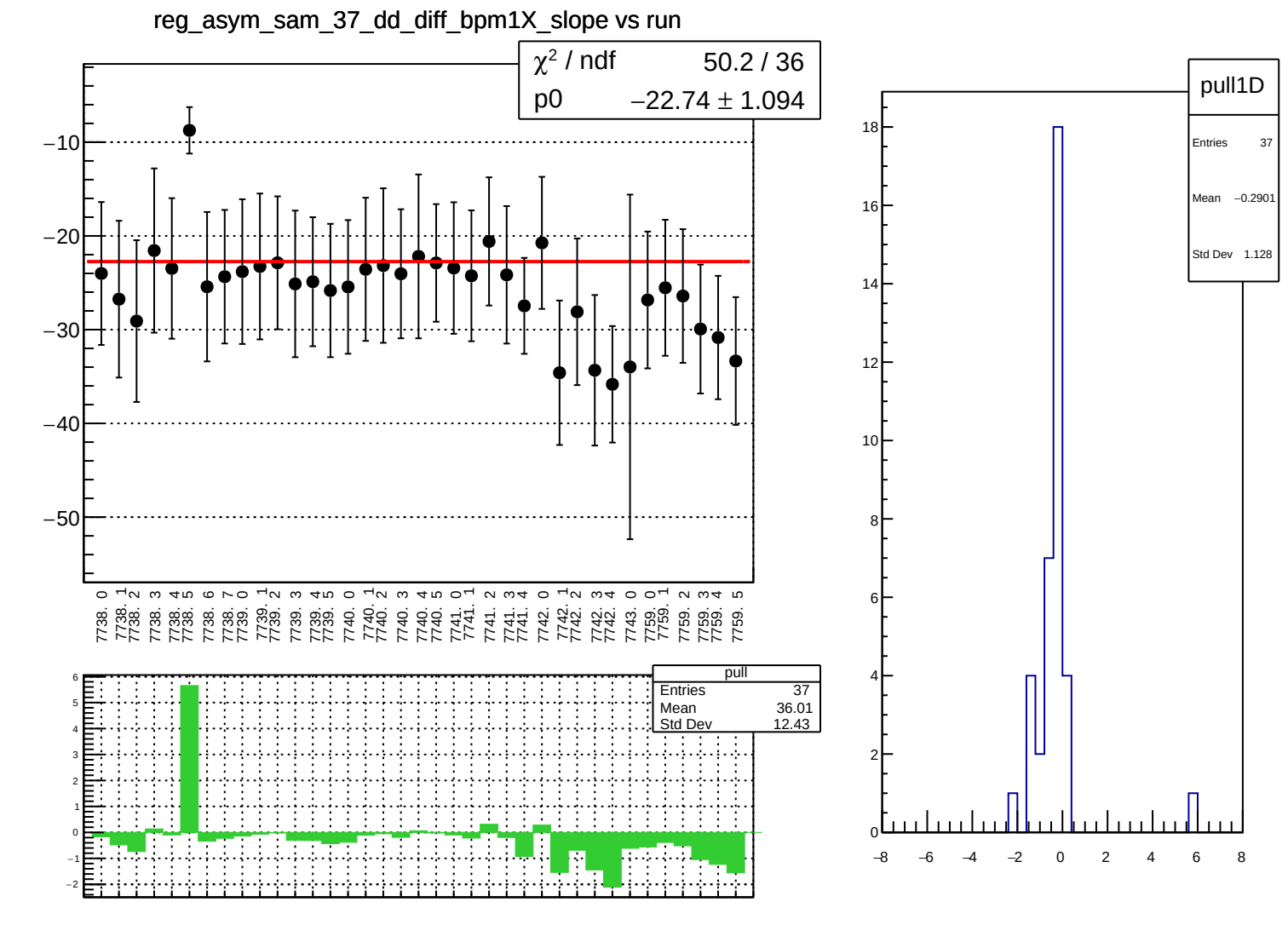

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.649 / 36
p0 10.27 ± 3.6
pull
Entries 37
Mean 946.8
Std Dev 924.4
pull1D
Entries 37
Mean 0.001254
Std Dev 0.2111

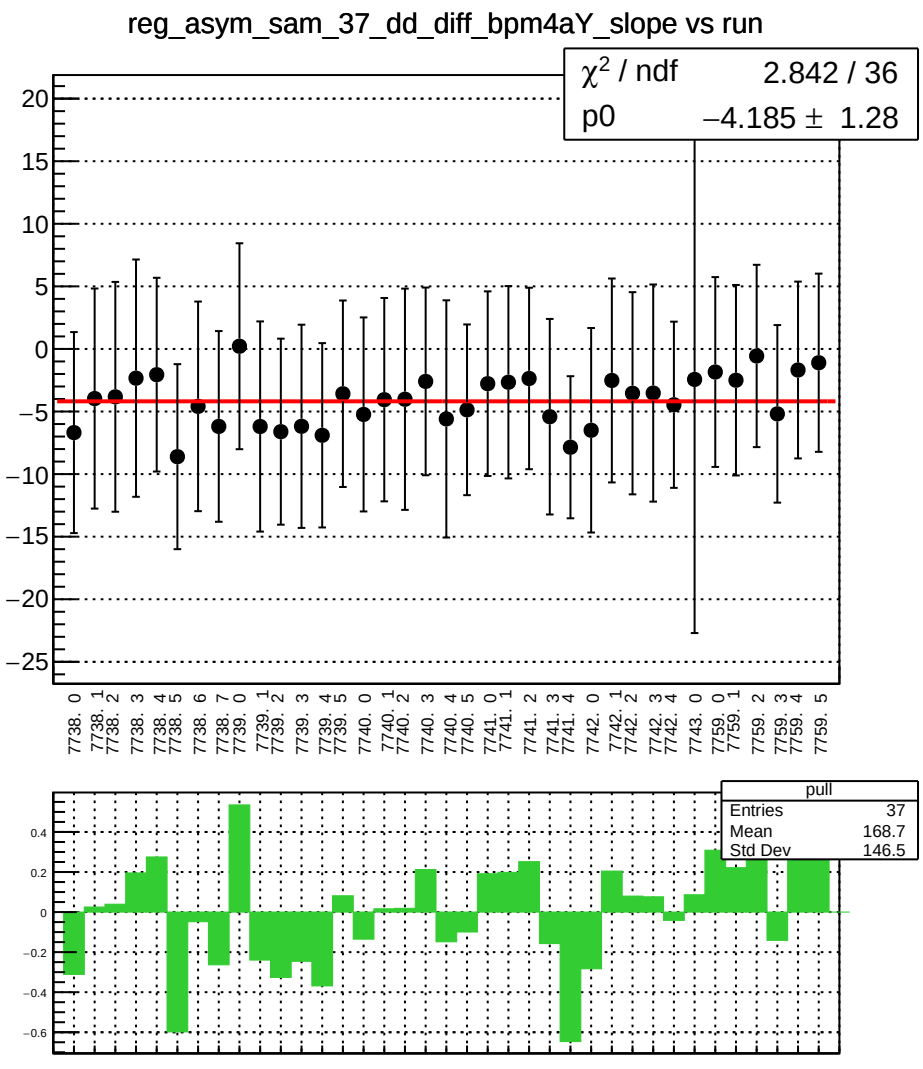

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.48 / 36
p0 −68.9 ± 3.001
pull
Entries 37
Mean 44.07
Std Dev 20.47

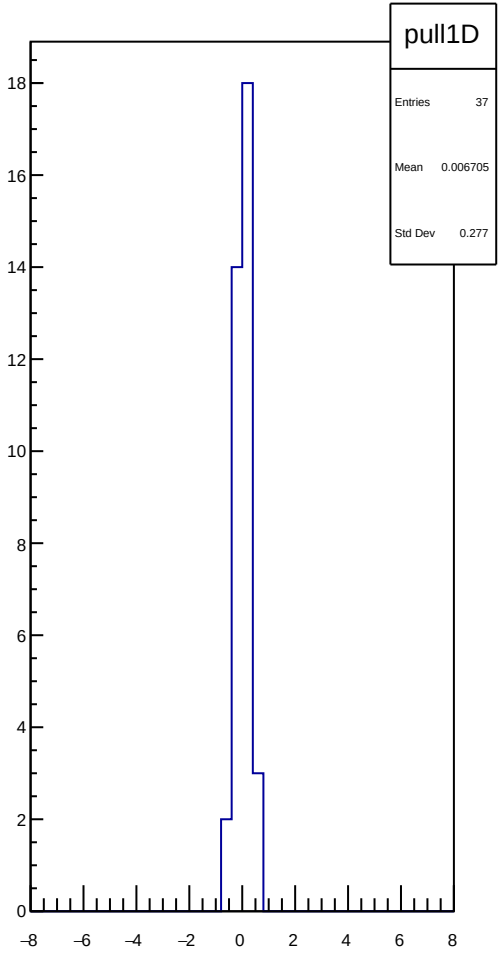

pull1D
Entries 37
Mean 0.2747
Std Dev 1.111

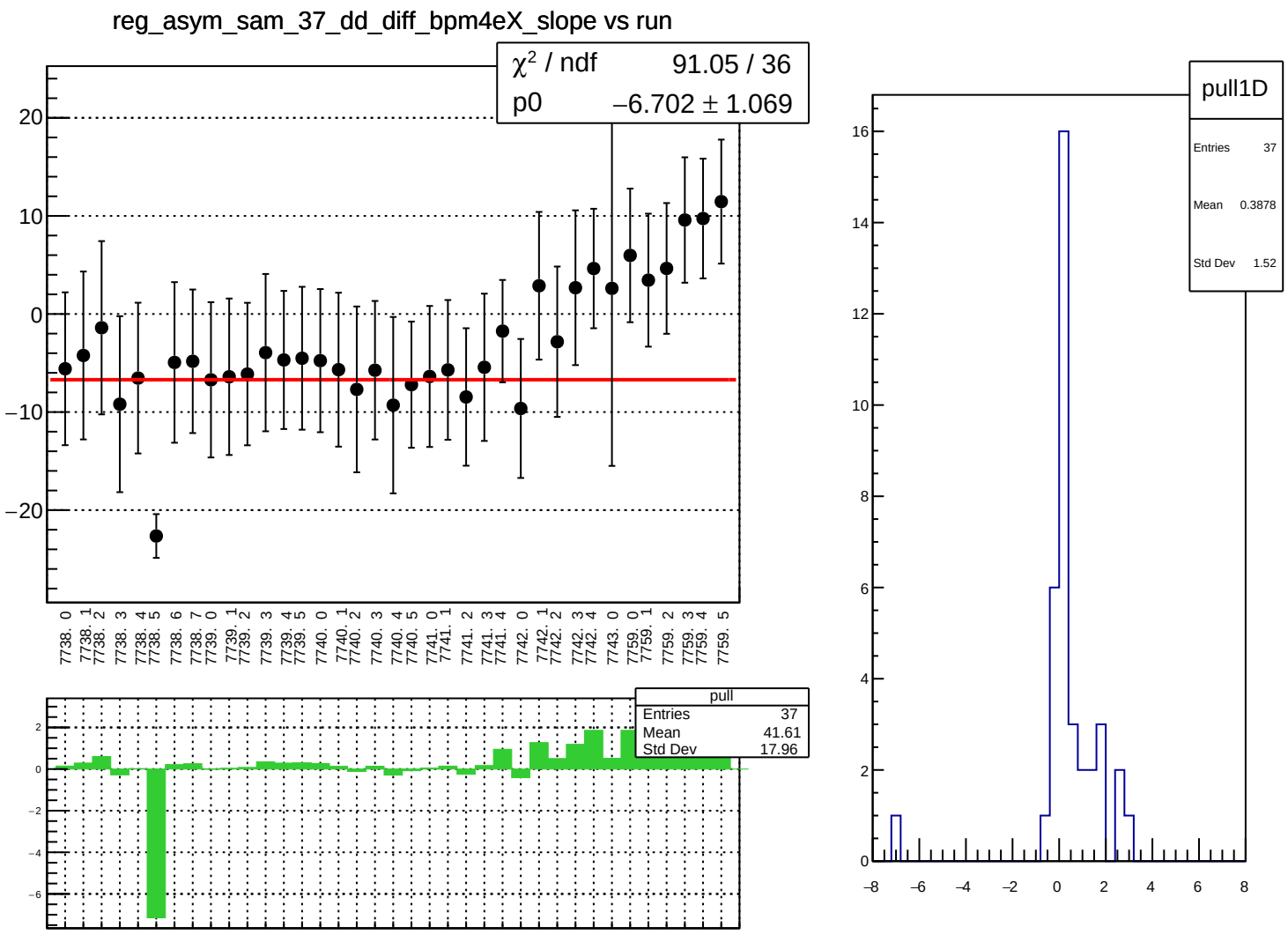

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.264 / 36
p0 −7.579 ± 5.848
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −22.85
Std Dev 43.46
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.02185
Std Dev 0.1835
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

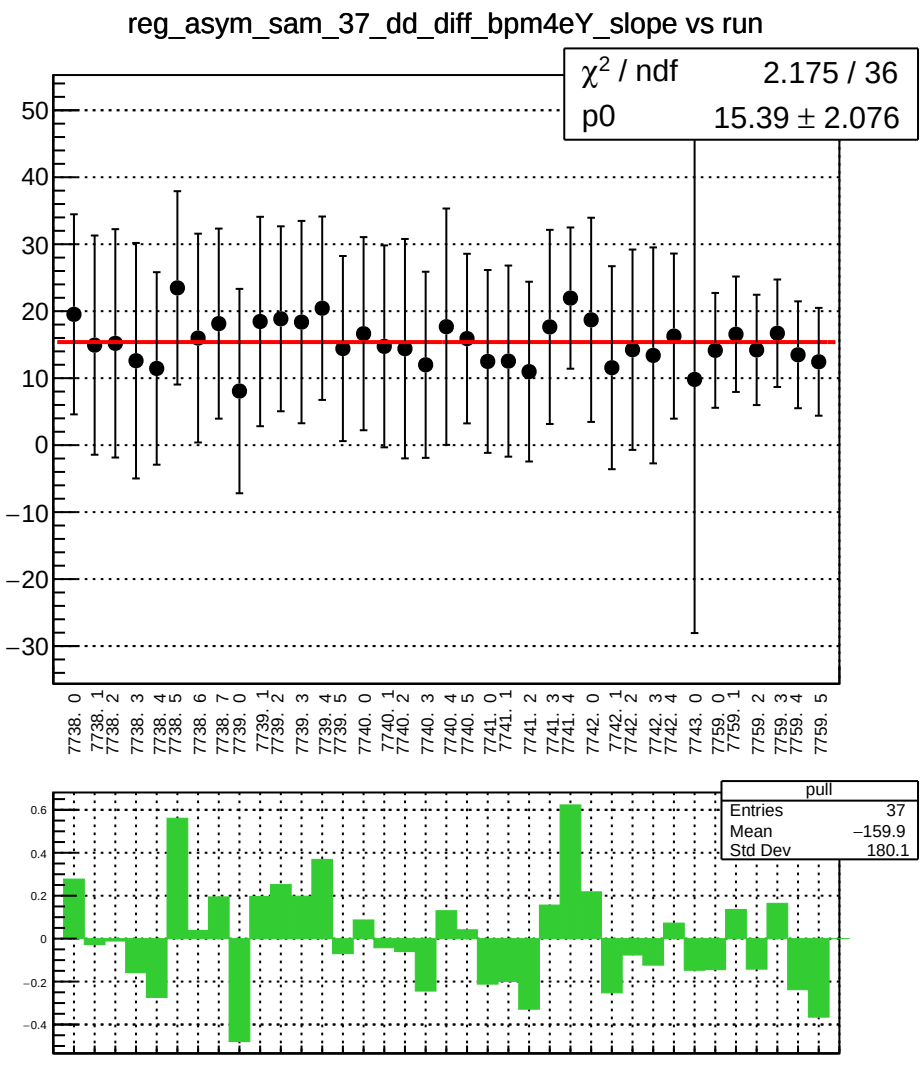

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 10.42 / 36
p0 −0.5203 ± 0.1814
pull
Entries 37
Mean 9.403
Std Dev 11.27
pull1D
Entries 37
Mean −0.1436
Std Dev 0.5108

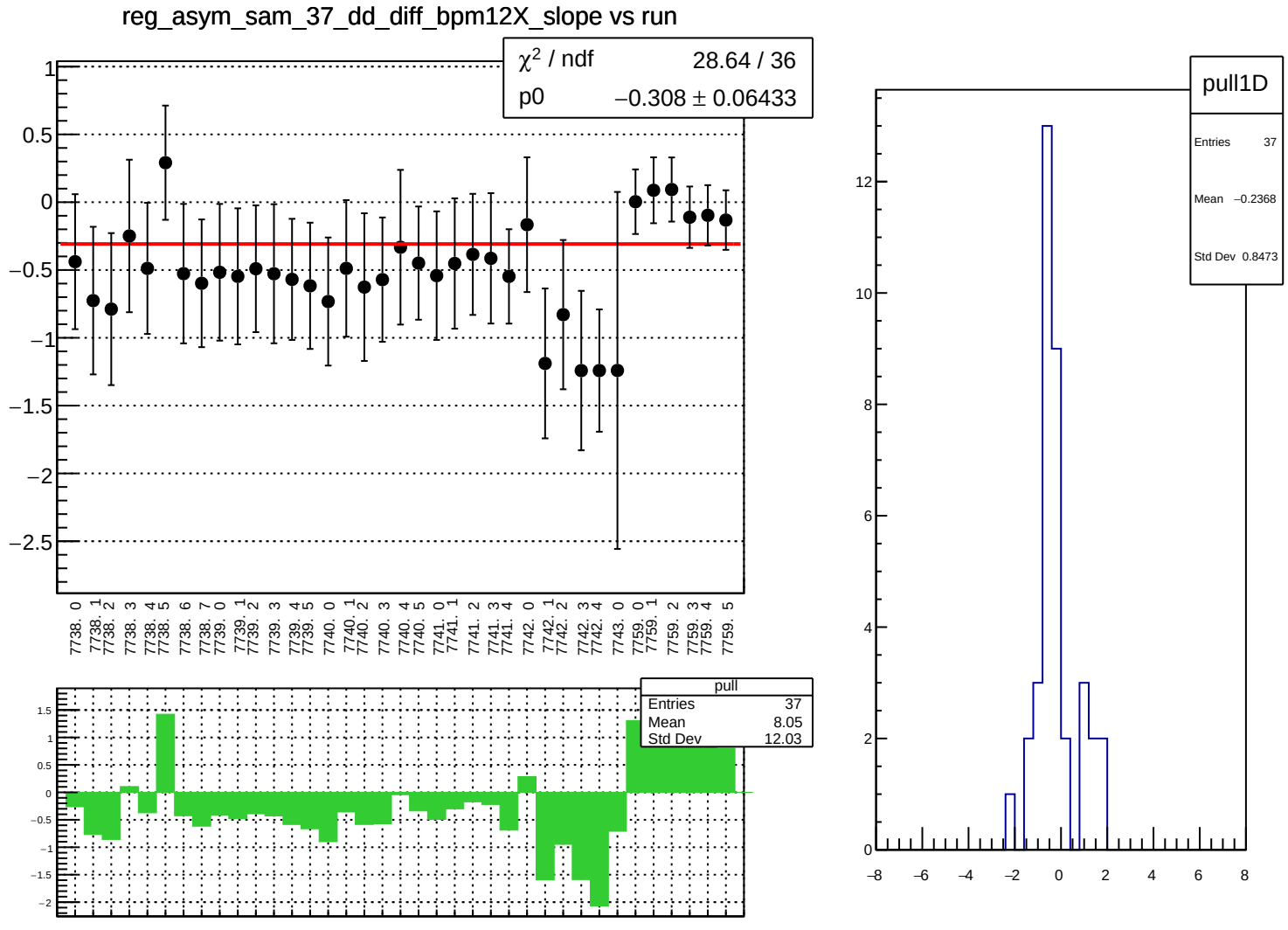

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 50.2 / 36
p0 −22.74 ± 1.094
−10
−20
−30
−40
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.01
Std Dev 12.43
pull1D
Entries 37
Mean −0.2901
Std Dev 1.128

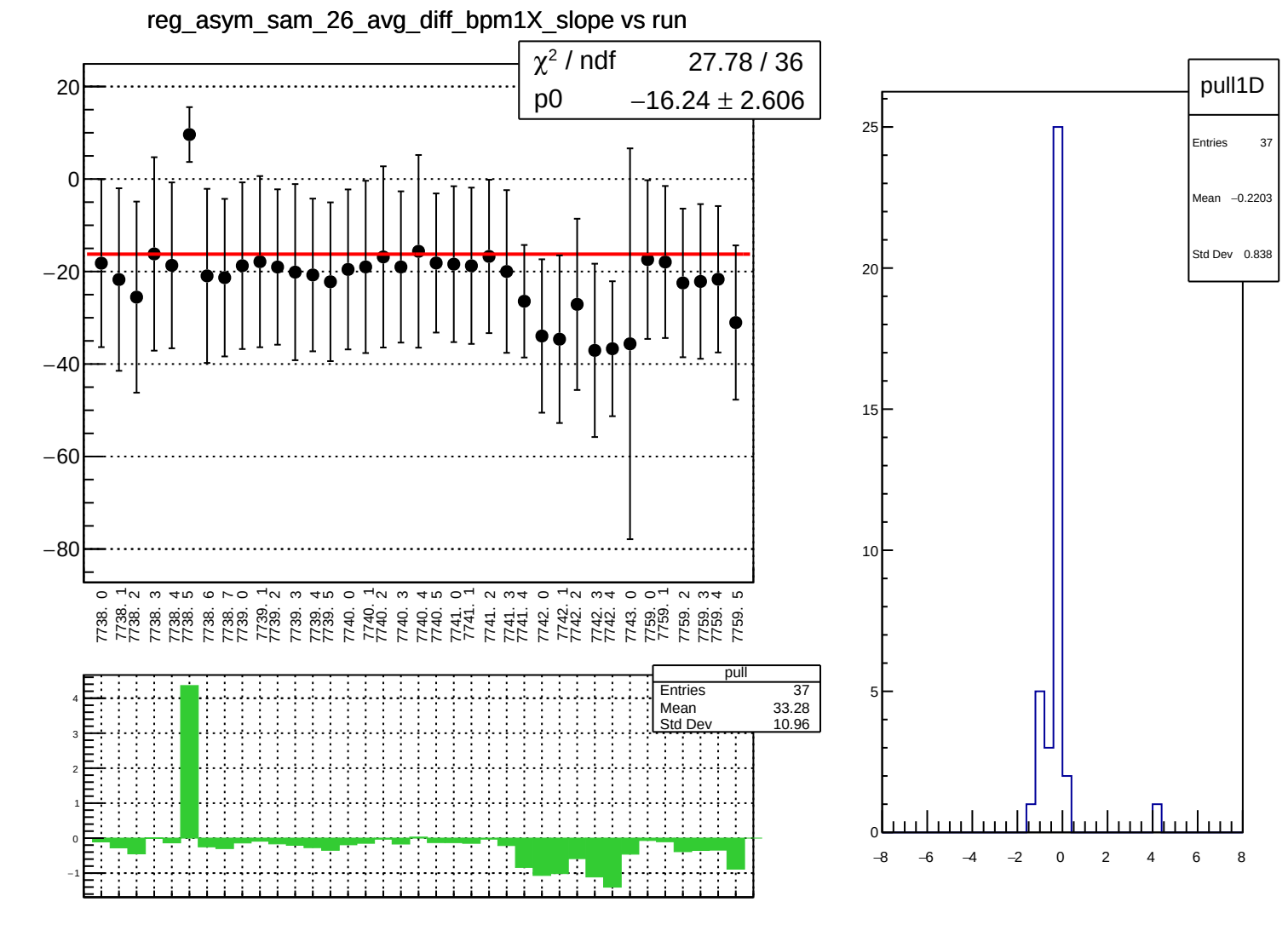

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.842 / 36
p0 −4.185 ± 1.28
pull
Entries 37
Mean 168.7
Std Dev 146.5

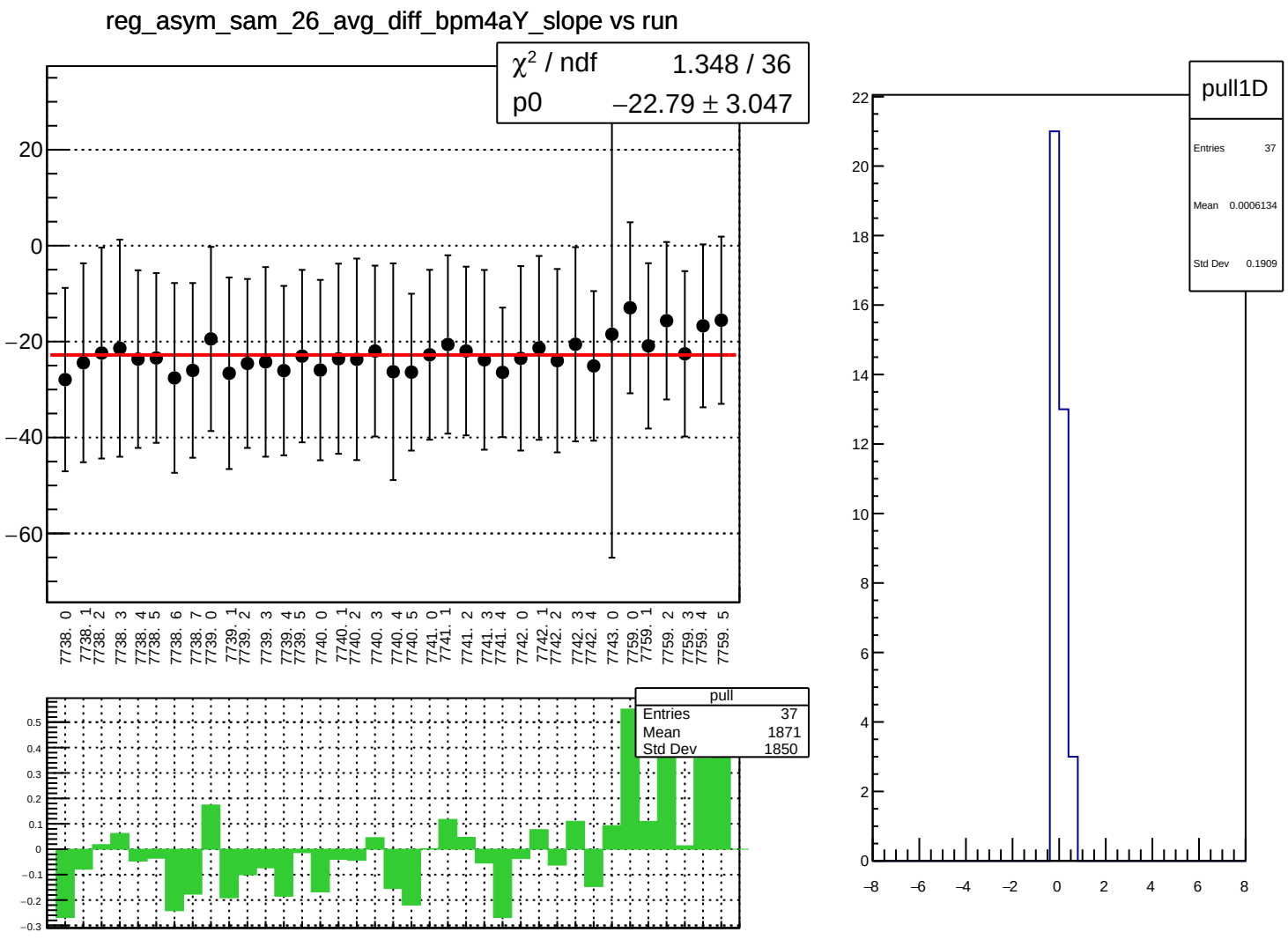

pull1D
Entries 37
Mean 0.006705
Std Dev 0.277

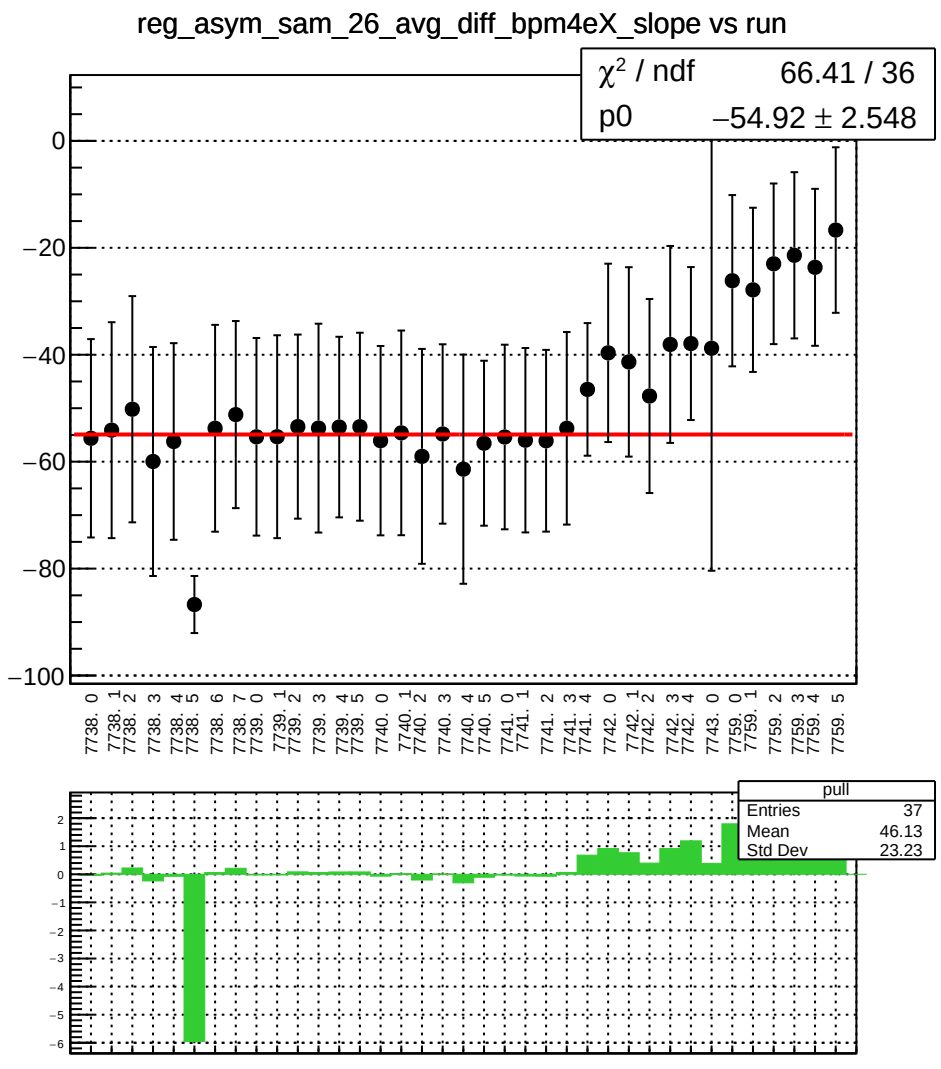

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 91.05 / 36
p0 −6.702 ± 1.069
20
10
0
−10
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 41.61
Std Dev 17.96
2
0
−2
−4
−6
pull1D
Entries 37
Mean 0.3878
Std Dev 1.52
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

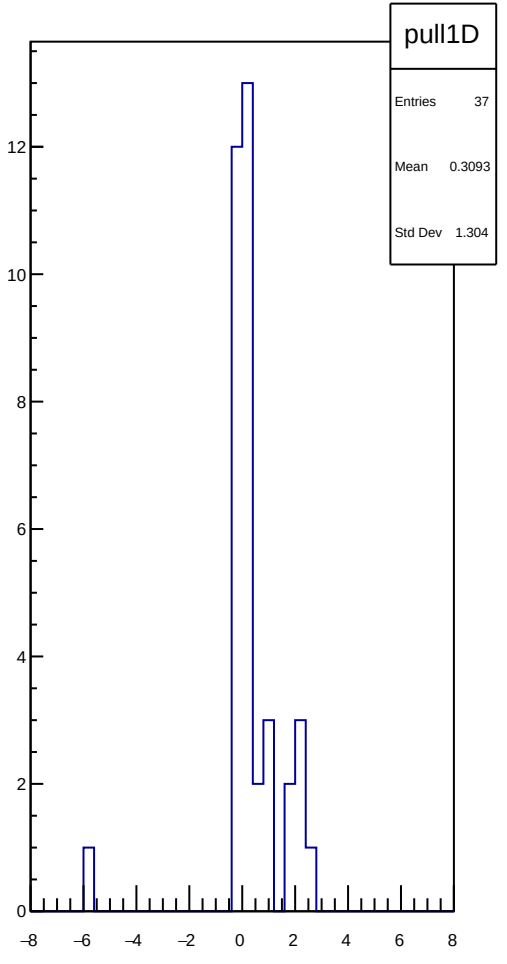

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.175 / 36
p0 15.39 ± 2.076
50
40
30
20
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −159.9
Std Dev 180.1
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.003237
Std Dev 0.2425
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

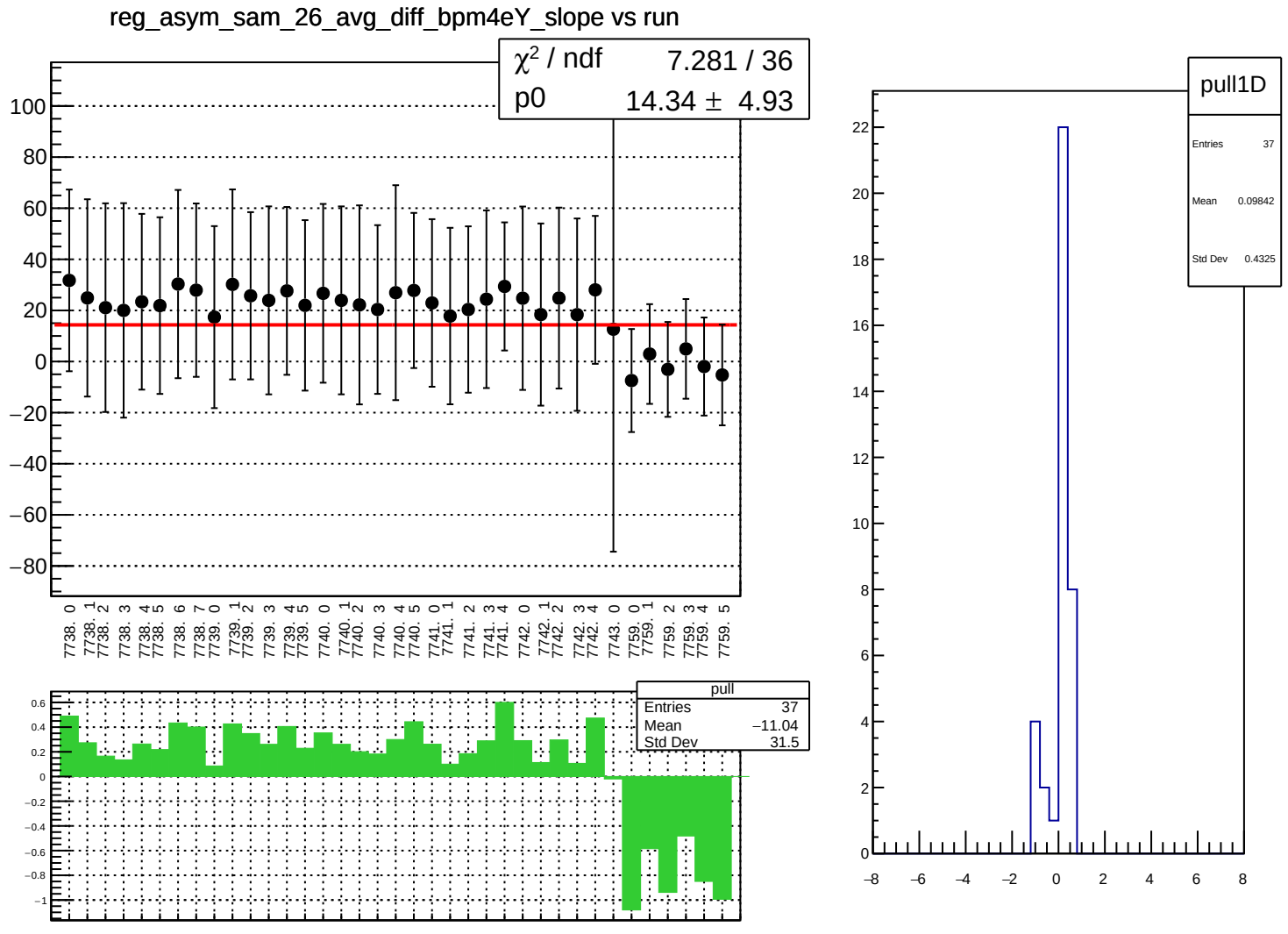

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 28.64 / 36
p0 −0.308 ± 0.06433
pull
Entries 37
Mean 8.05
Std Dev 12.03
pull1D
Entries 37
Mean −0.2368
Std Dev 0.8473

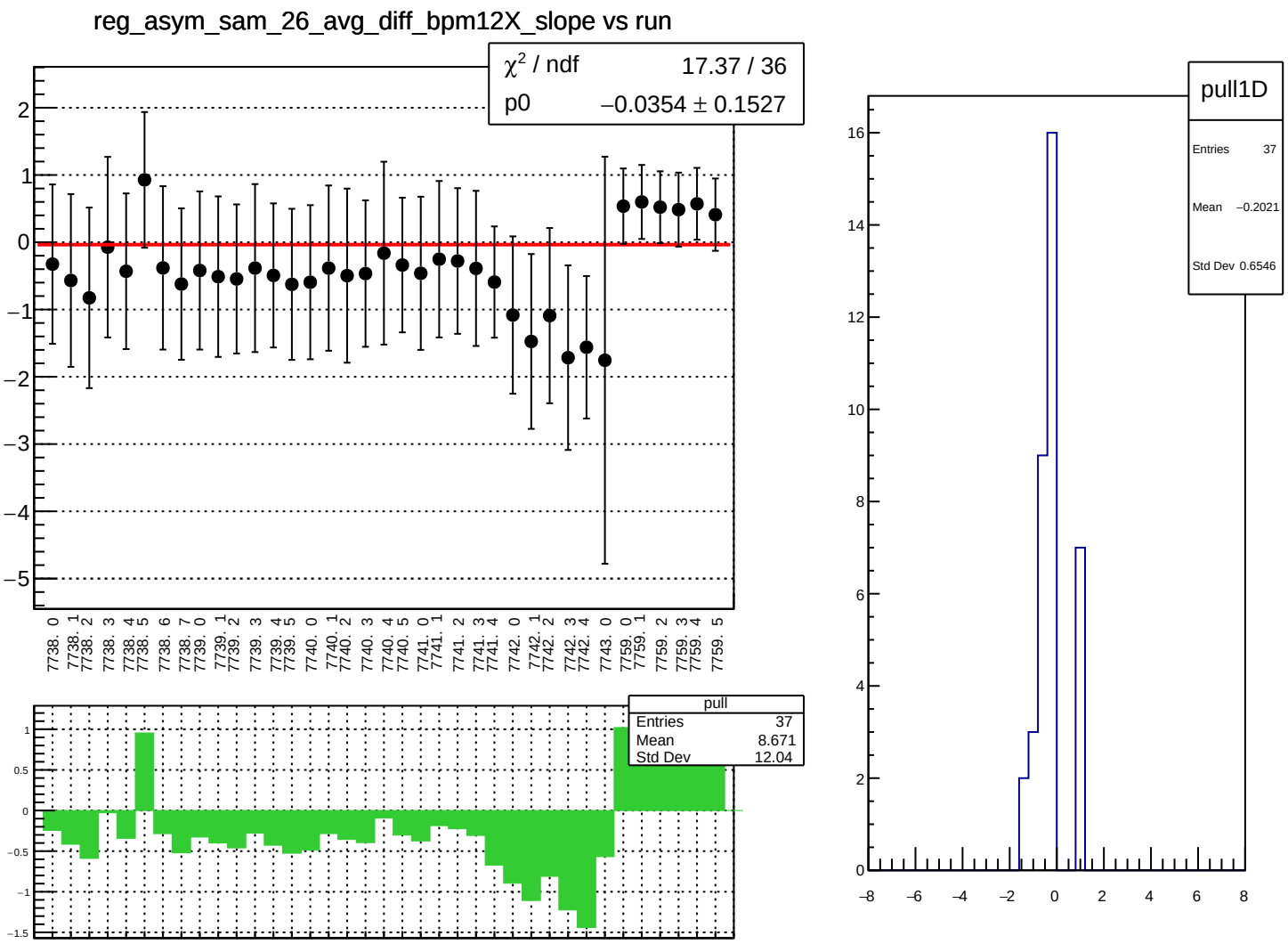

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 27.78 / 36
p0 −16.24 ± 2.606
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.28
Std Dev 10.96
4
3
2
1
0
−1
pull1D
Entries 37
Mean −0.2203
Std Dev 0.838
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

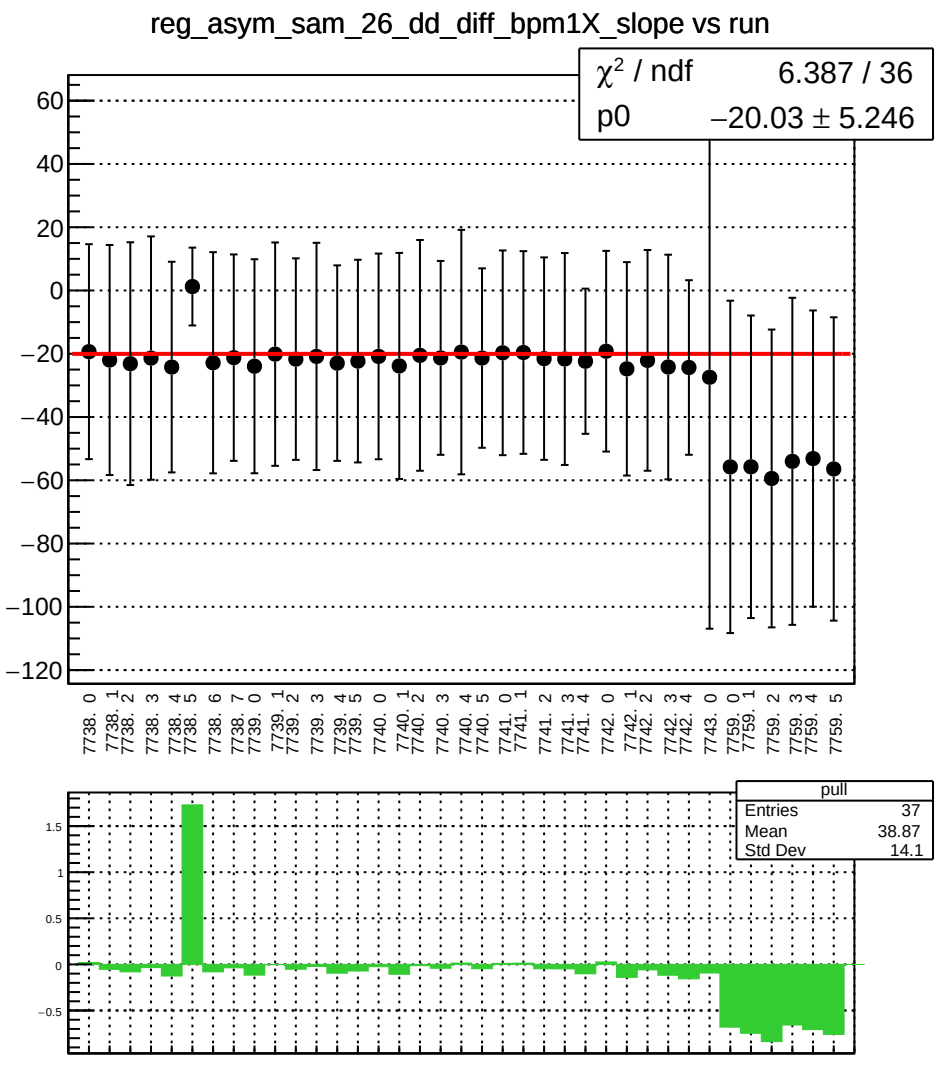

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.348 / 36
p0 −22.79 ± 3.047
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1871
Std Dev 1850
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 37
Mean 0.0006134
Std Dev 0.1909
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

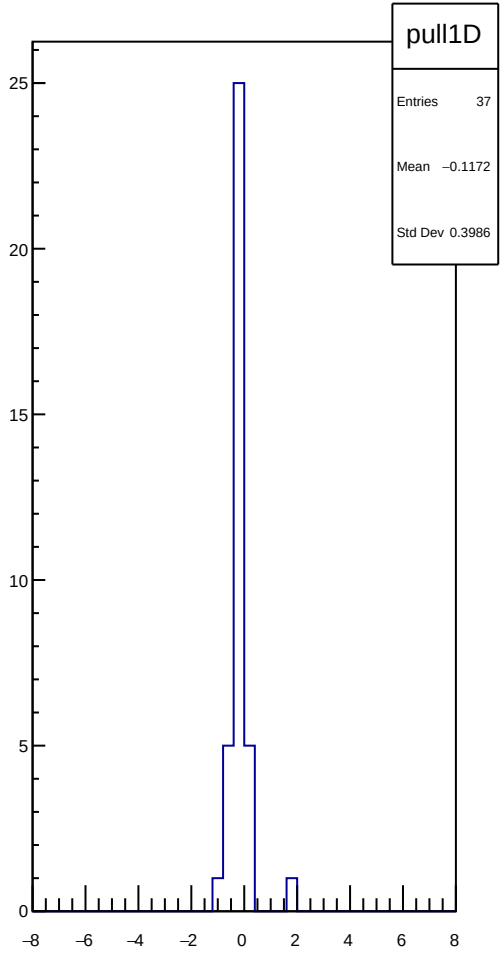

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.41 / 36
p0 −54.92 ± 2.548
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 46.13
Std Dev 23.23
2
1
0
−1
−2
−3
−4
−5
−6

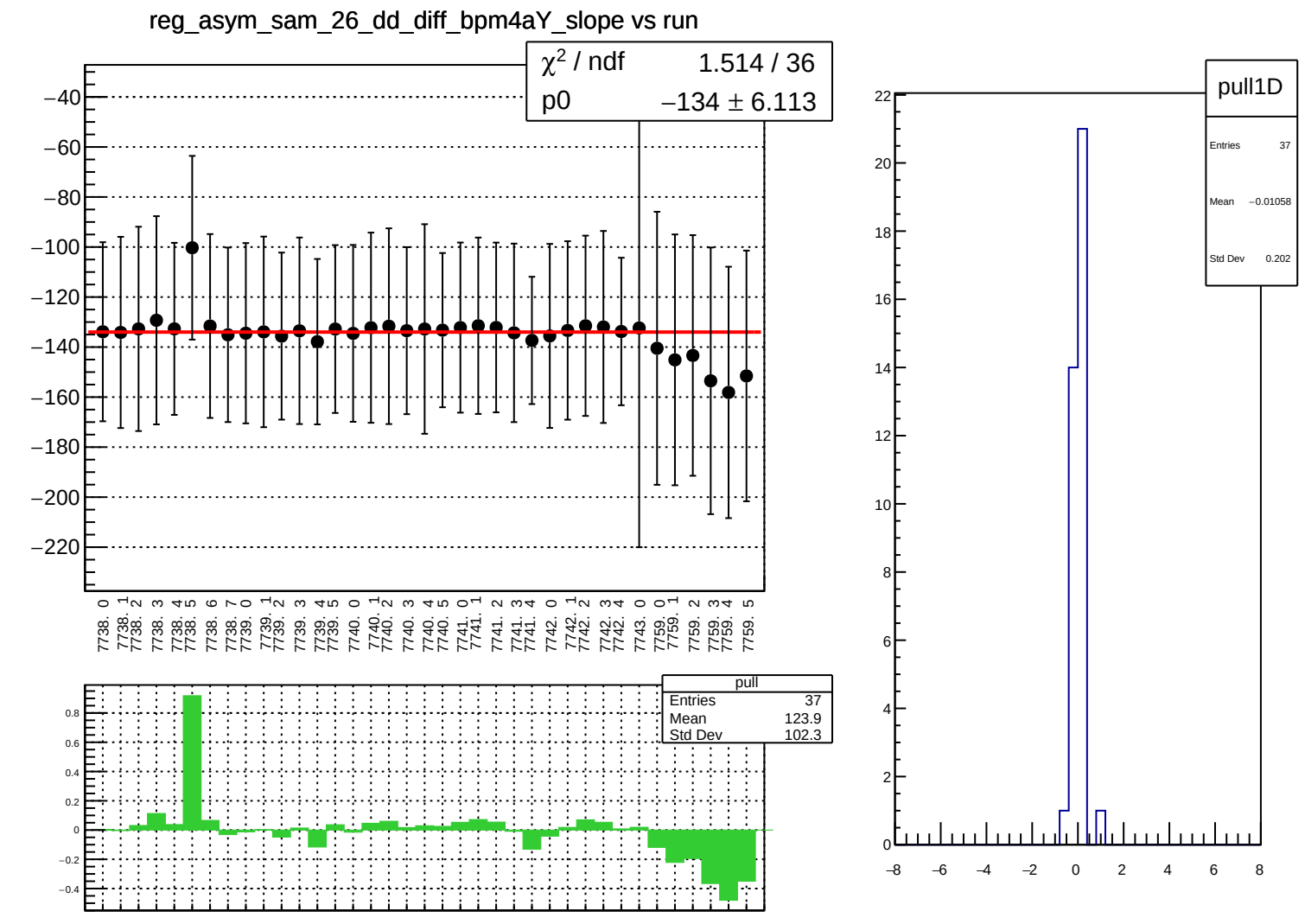

pull1D
Entries 37
Mean 0.3093
Std Dev 1.304
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

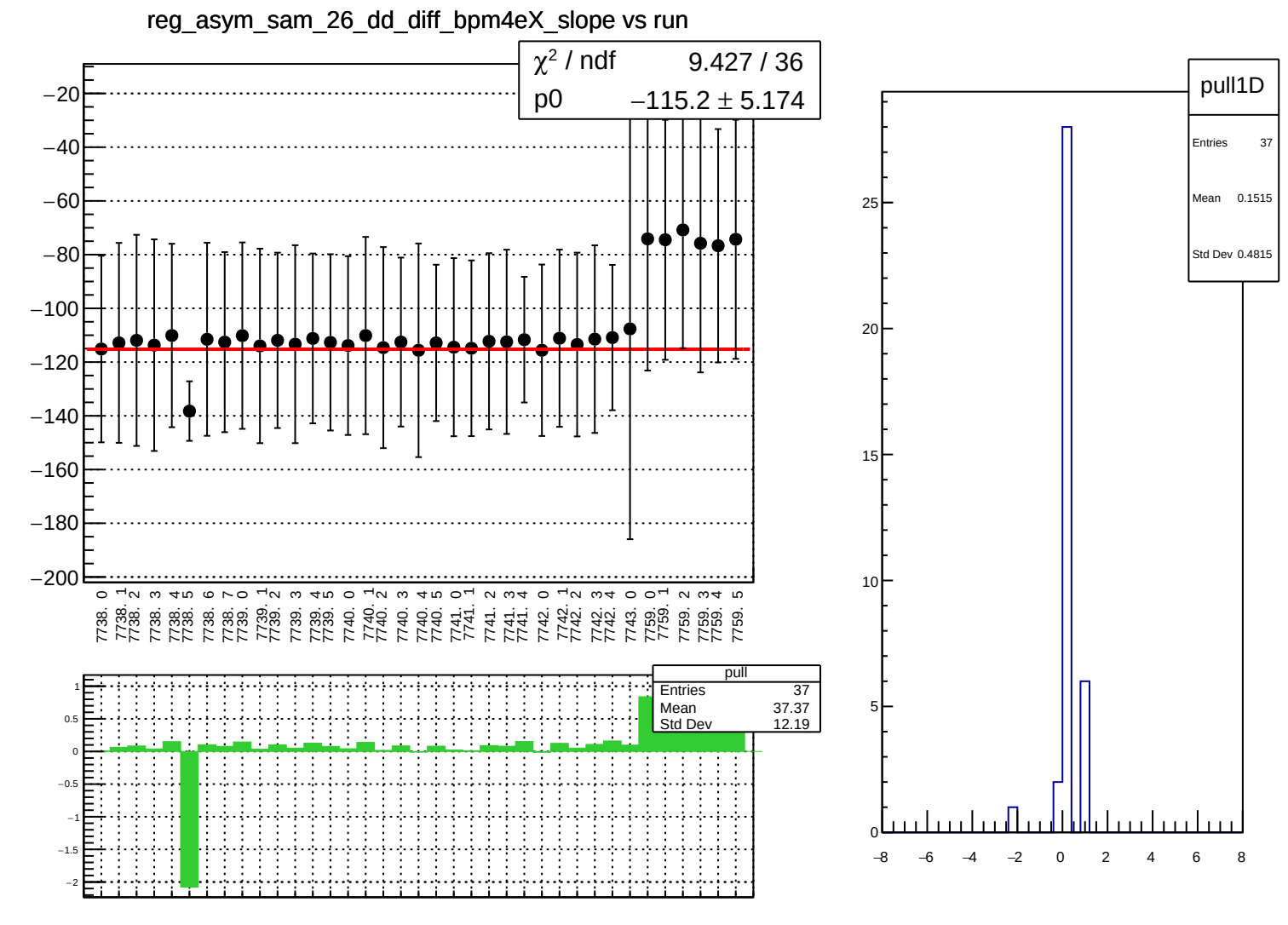

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.281 / 36
p0 14.34 ± 4.93
pull
Entries 37
Mean −11.04
Std Dev 31.5
pull1D
Entries 37
Mean 0.09842
Std Dev 0.4325

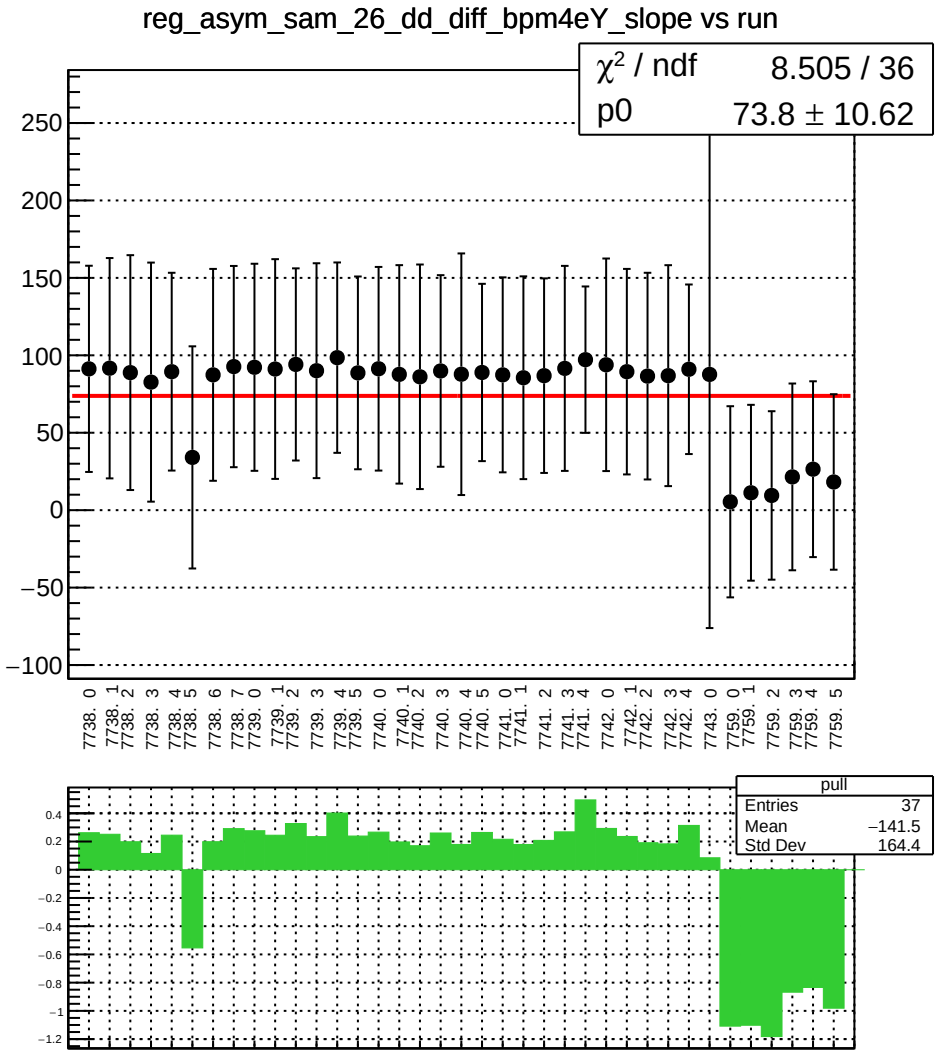

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 17.37 / 36
p0 −0.0354 ± 0.1527
pull
Entries 37
Mean 8.671
Std Dev 12.04
pull1D
Entries 37
Mean −0.2021
Std Dev 0.6546

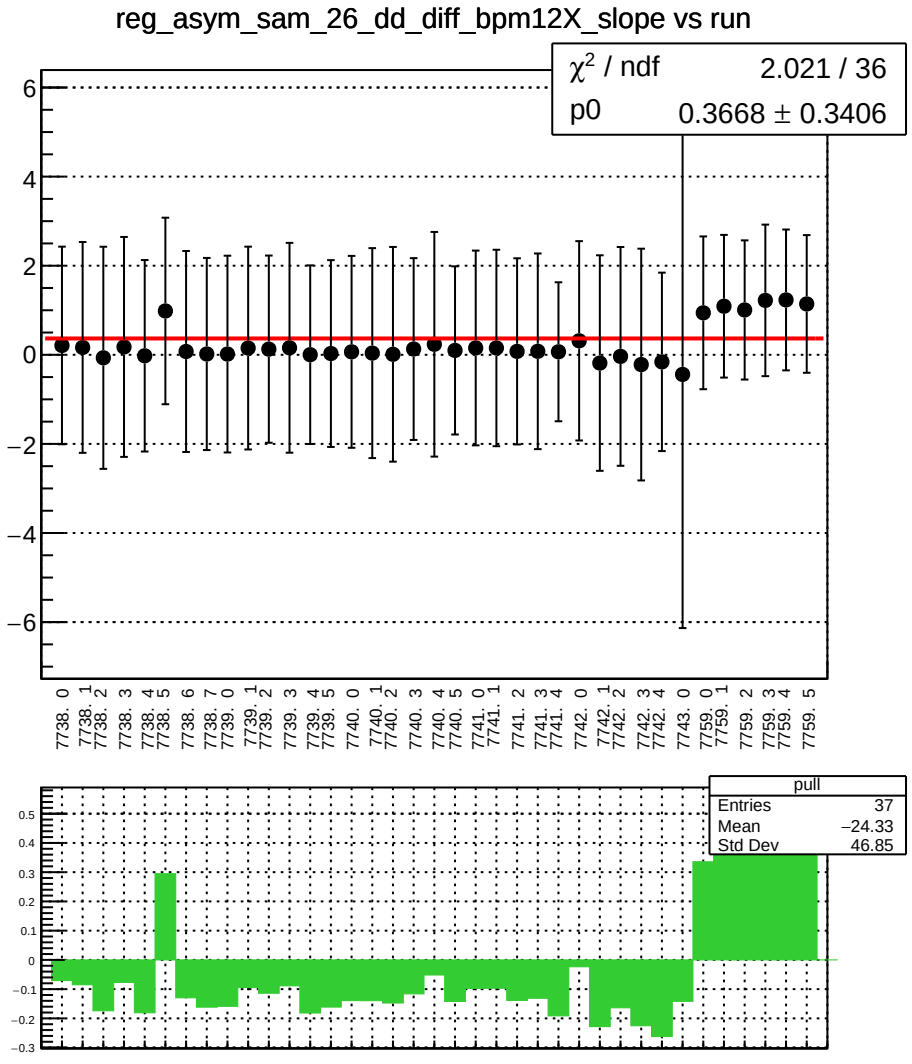

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.387 / 36
p0 −20.03 ± 5.246
60
40
20
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.87
Std Dev 14.1
1.5
1
0.5
0
−0.5

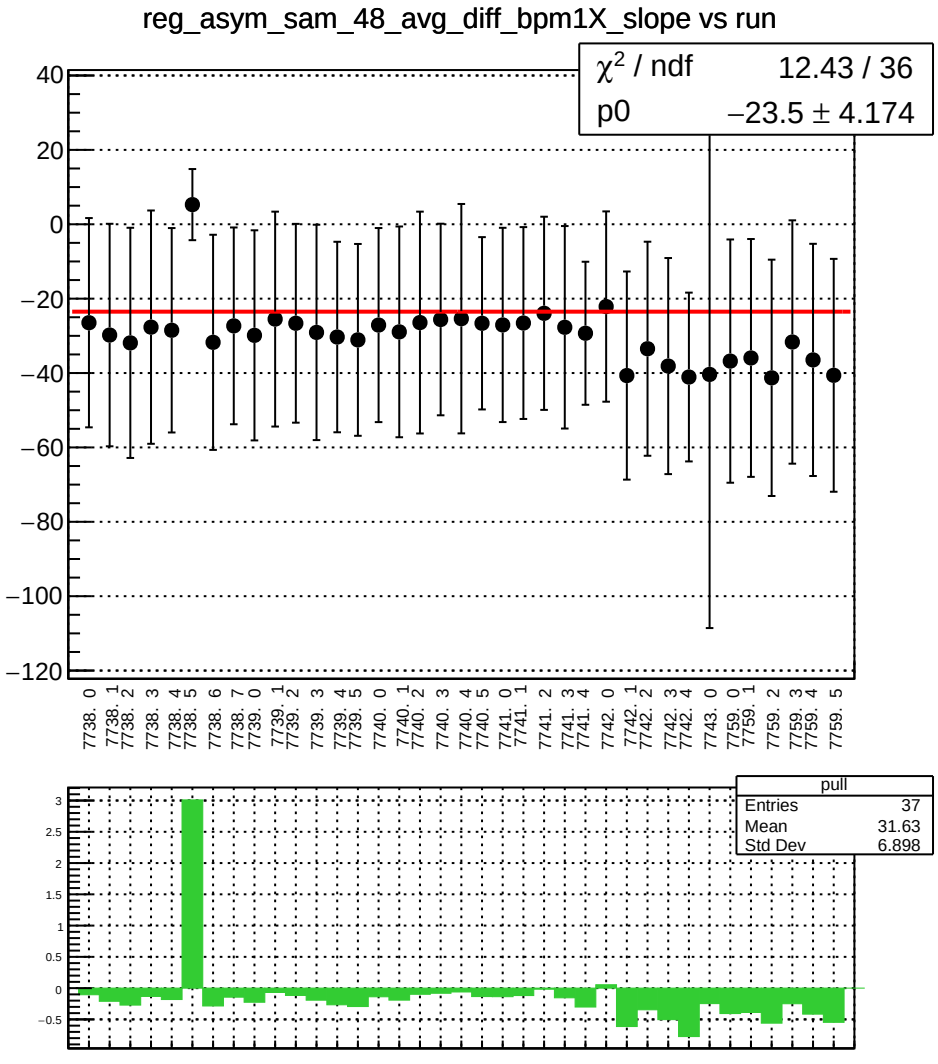

pull1D
Entries 37
Mean −0.1172
Std Dev 0.3986
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

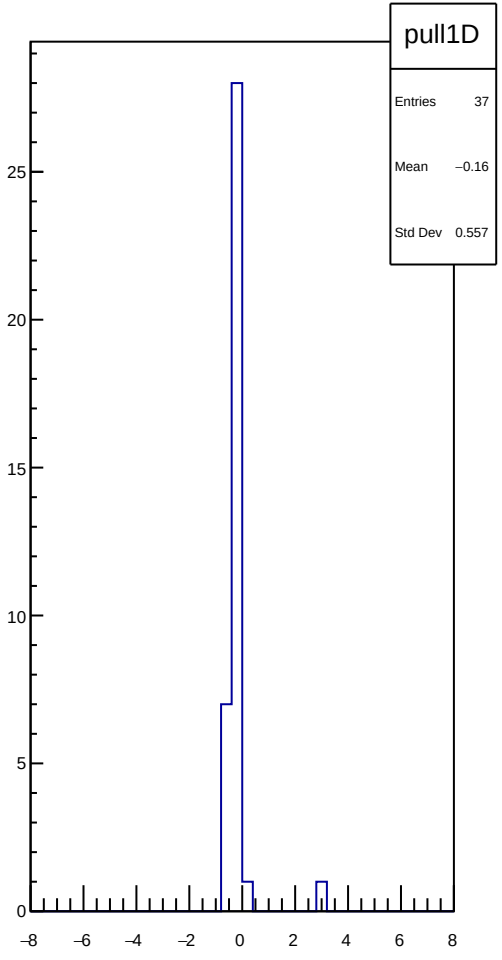

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.514 / 36
p0 −134 ± 6.113
pull
Entries 37
Mean 123.9
Std Dev 102.3
pull1D
Entries 37
Mean −0.01058
Std Dev 0.202

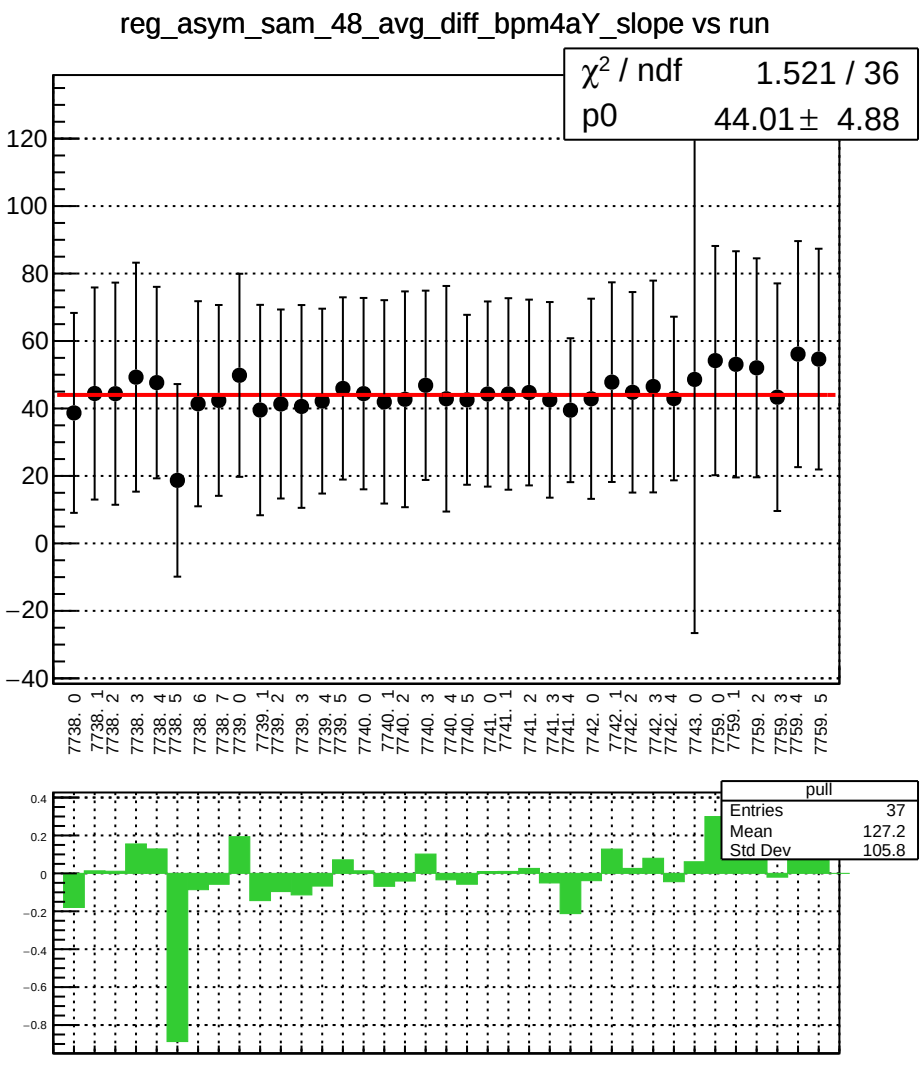

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.427 / 36
p0 −115.2 ± 5.174
pull
Entries 37
Mean 37.37
Std Dev 12.19
pull1D
Entries 37
Mean 0.1515
Std Dev 0.4815

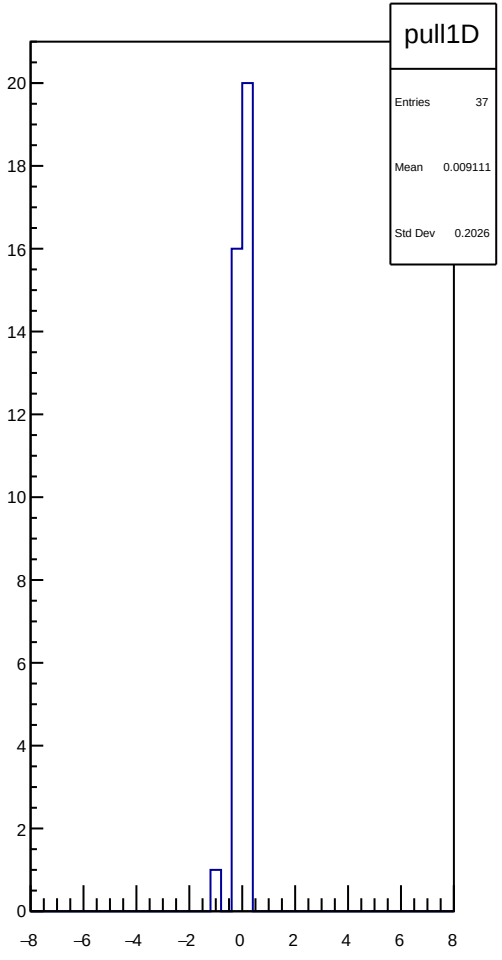

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.505 / 36
p0 73.8 ± 10.62
250
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −141.5
Std Dev 164.4
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 37
Mean 0.01786
Std Dev 0.4791
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

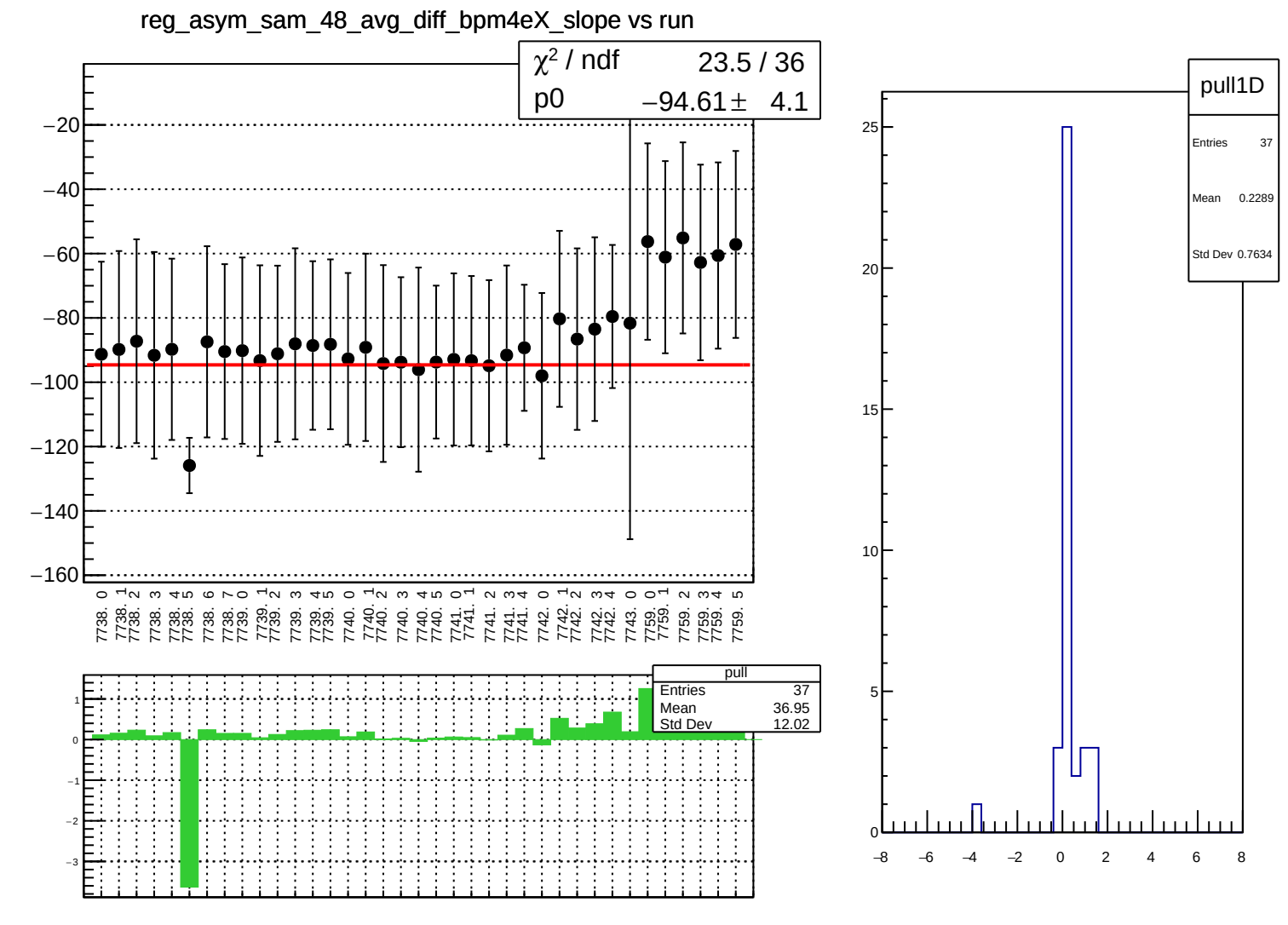

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 2.021 / 36
p0 0.3668 ± 0.3406
pull
Entries 37
Mean −24.33
Std Dev 46.85
pull1D
Entries 37
Mean −0.02894
Std Dev 0.2319

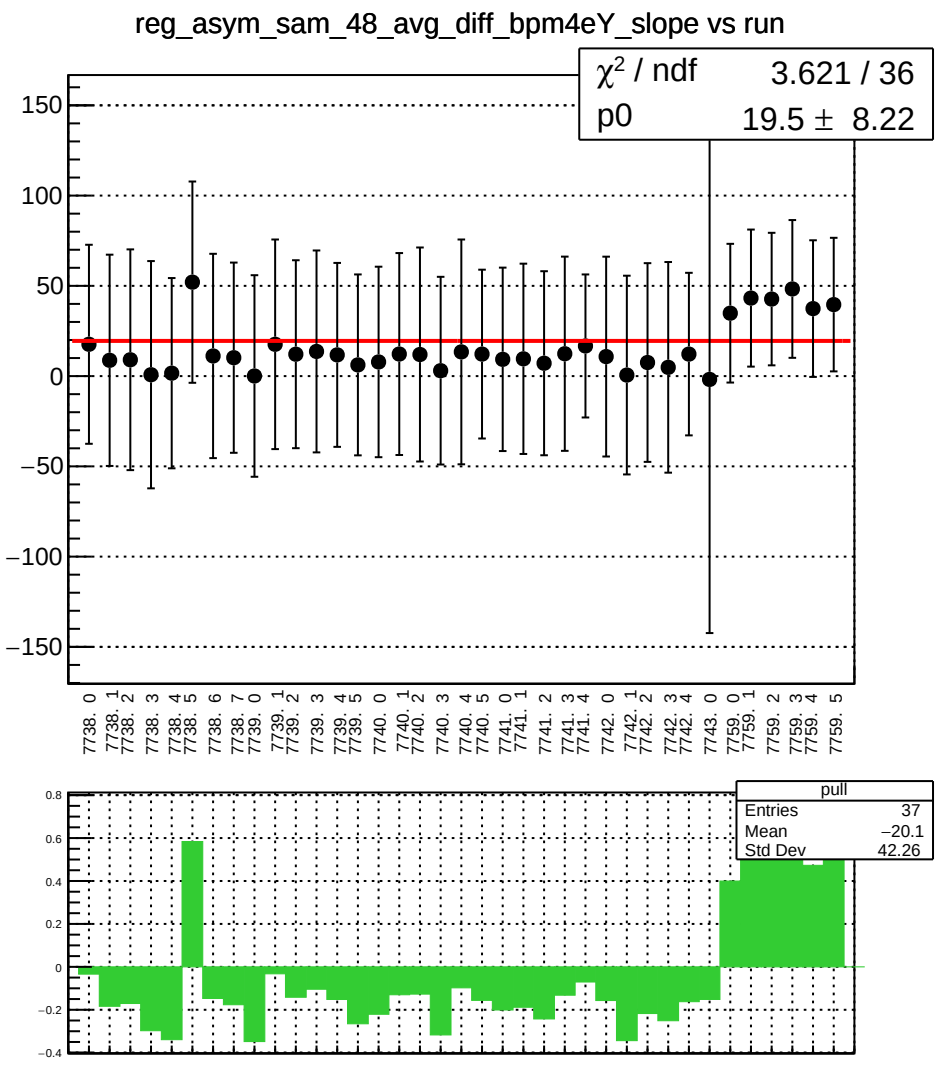

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 12.43 / 36
p0 −23.5 ± 4.174
pull
Entries 37
Mean 31.63
Std Dev 6.898

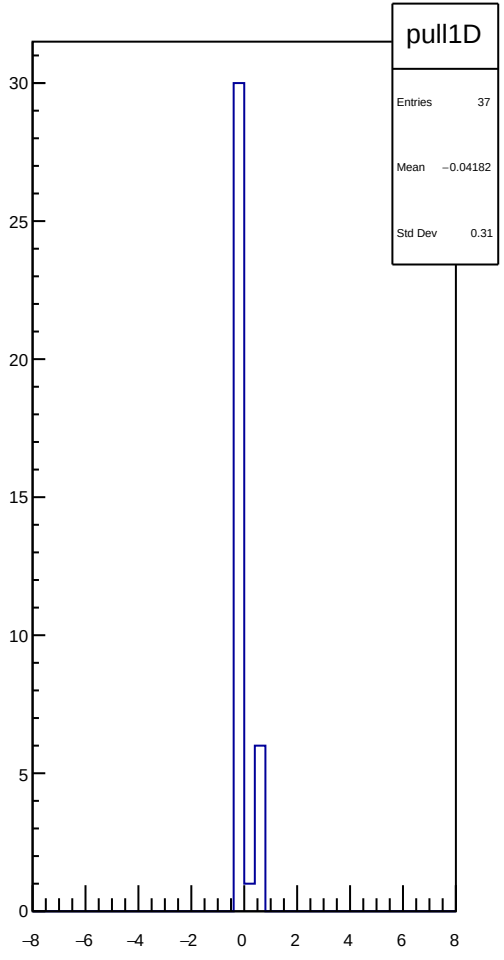

pull1D
Entries 37
Mean −0.16
Std Dev 0.557

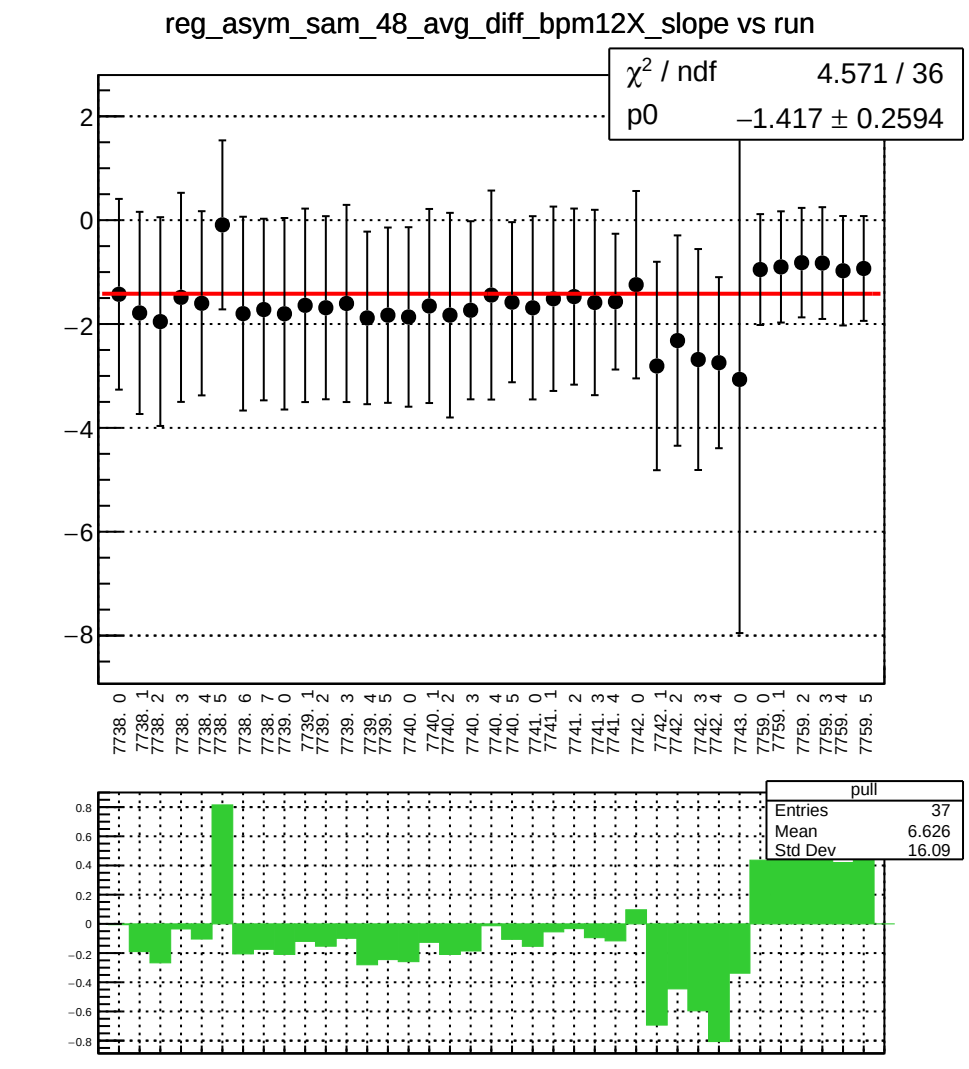

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.521 / 36
p0 44.01 ± 4.88
120
100
80
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 127.2
Std Dev 105.8
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

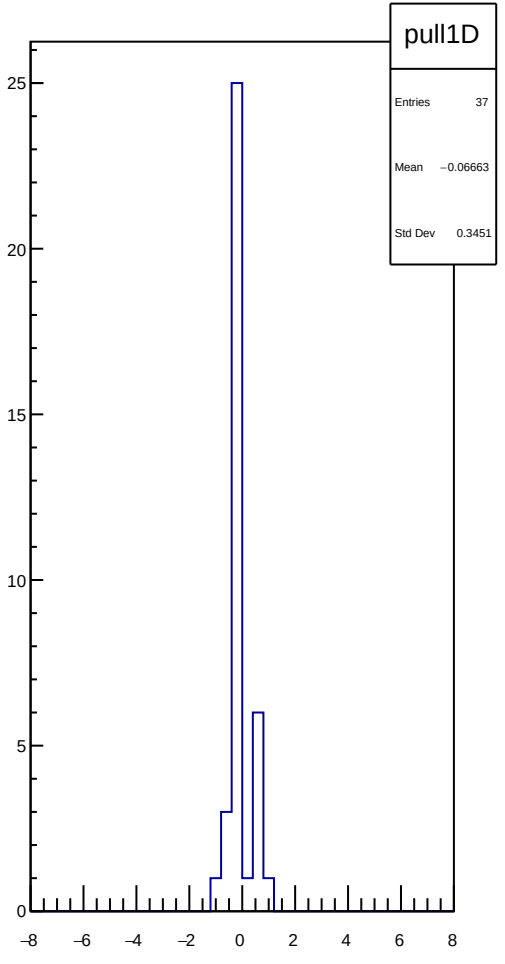

pull1D
Entries 37
Mean 0.009111
Std Dev 0.2026
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

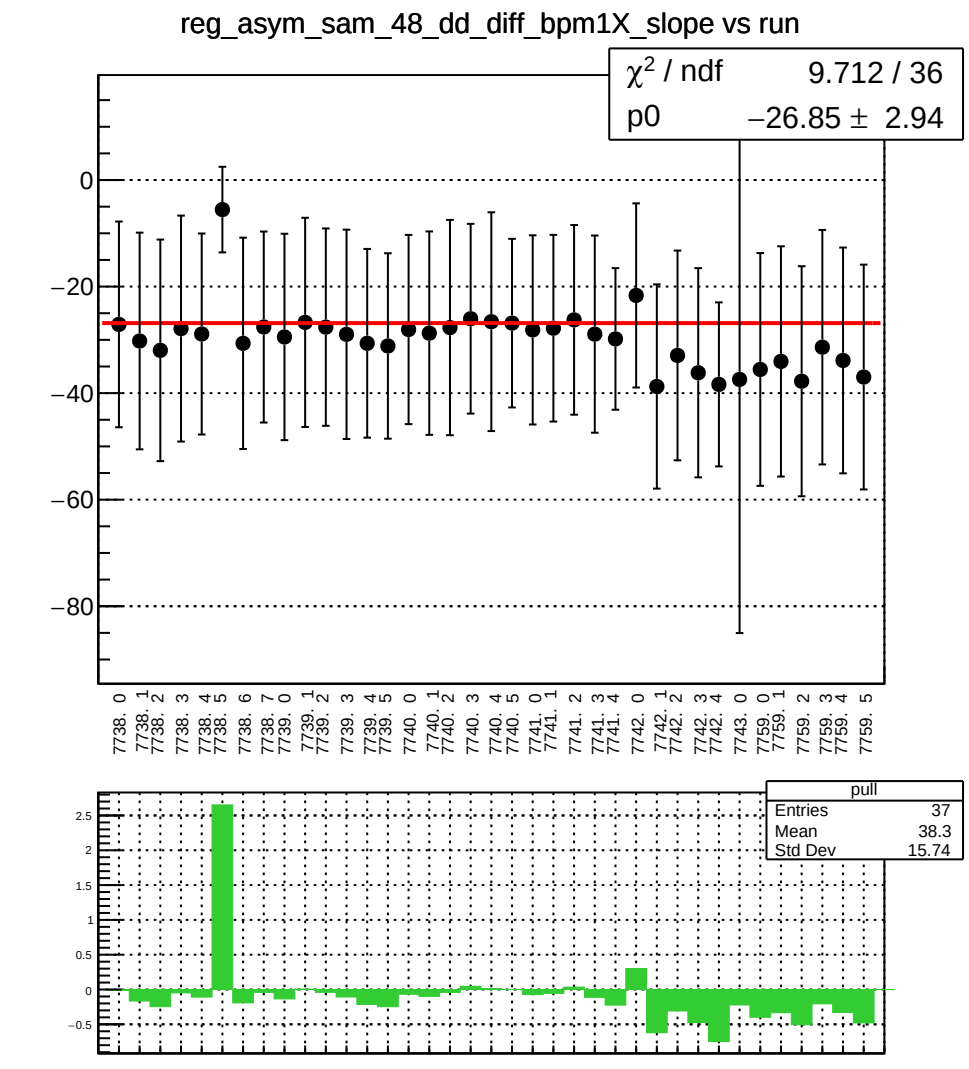

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.5 / 36
p0 −94.61 ± 4.1
pull
Entries 37
Mean 36.95
Std Dev 12.02
pull1D
Entries 37
Mean 0.2289
Std Dev 0.7634

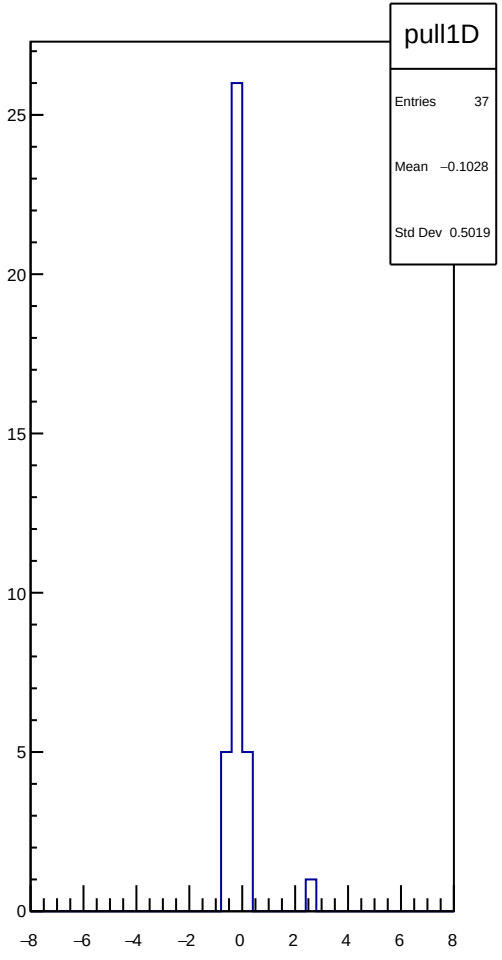

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.621 / 36
p0 19.5 ± 8.22
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −20.1
Std Dev 42.26
0.8
0.6
0.4
0.2
0
−0.2
−0.4

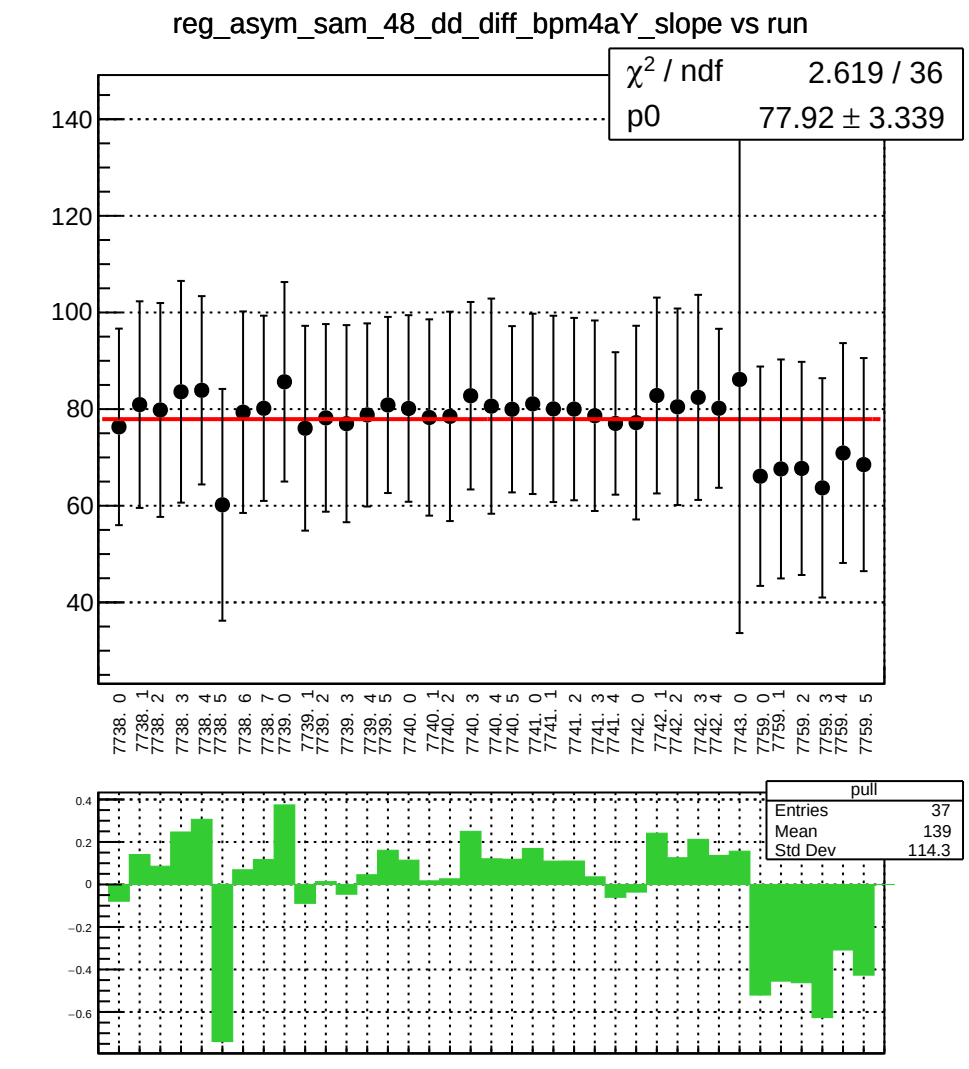

pull1D
Entries 37
Mean −0.04182
Std Dev 0.31
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

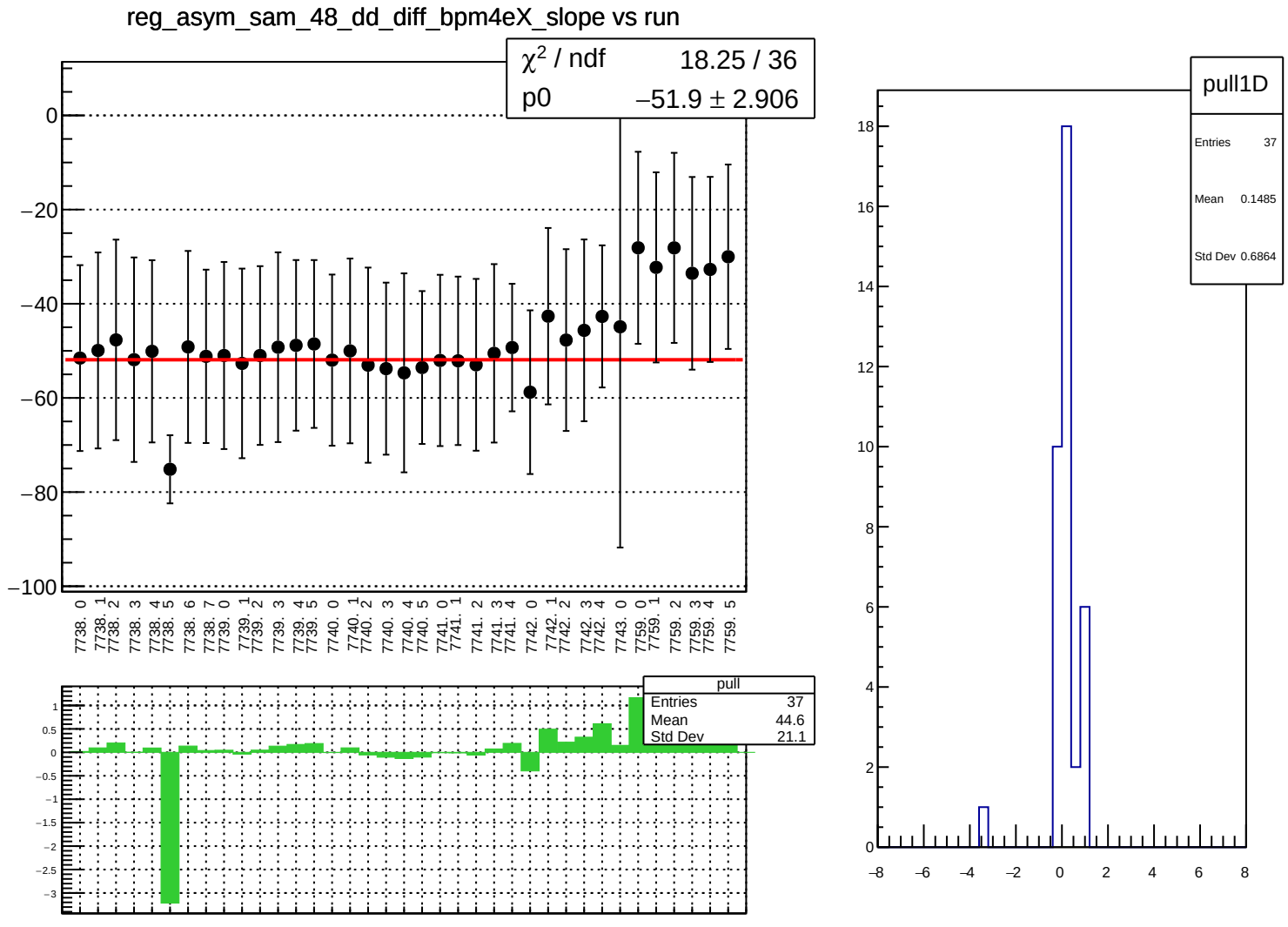

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 4.571 / 36
p0 −1.417 ± 0.2594
pull
Entries 37
Mean 6.626
Std Dev 16.09

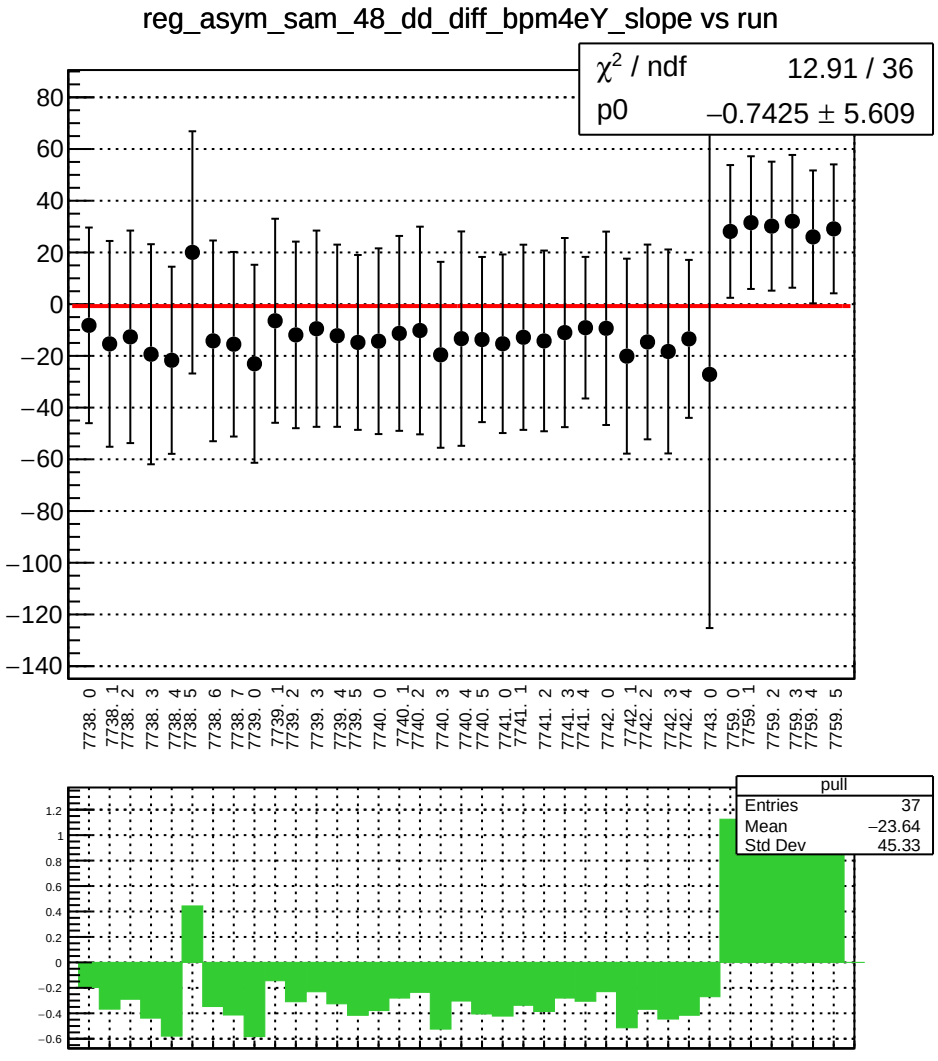

pull1D
Entries 37
Mean −0.06663
Std Dev 0.3451

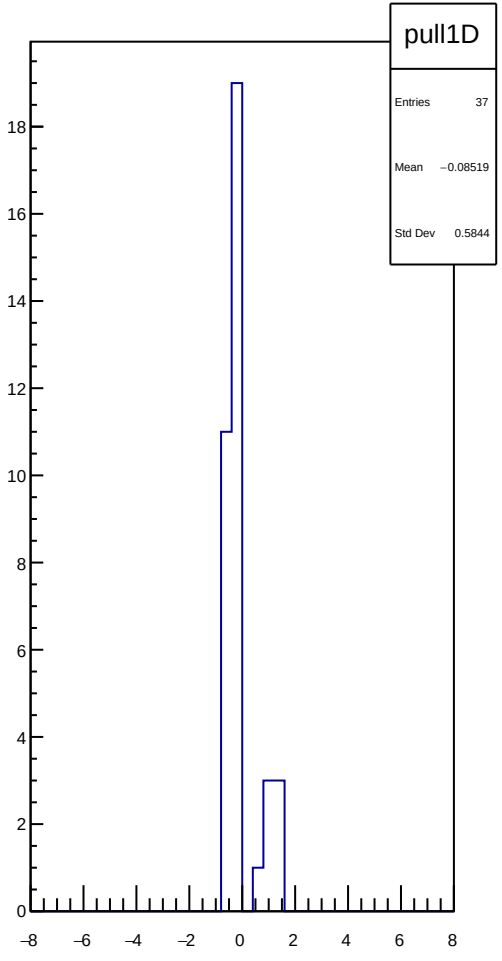

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.712 / 36
p0 −26.85 ± 2.94
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.3
Std Dev 15.74
2.5
2
1.5
1
0.5
0
−0.5

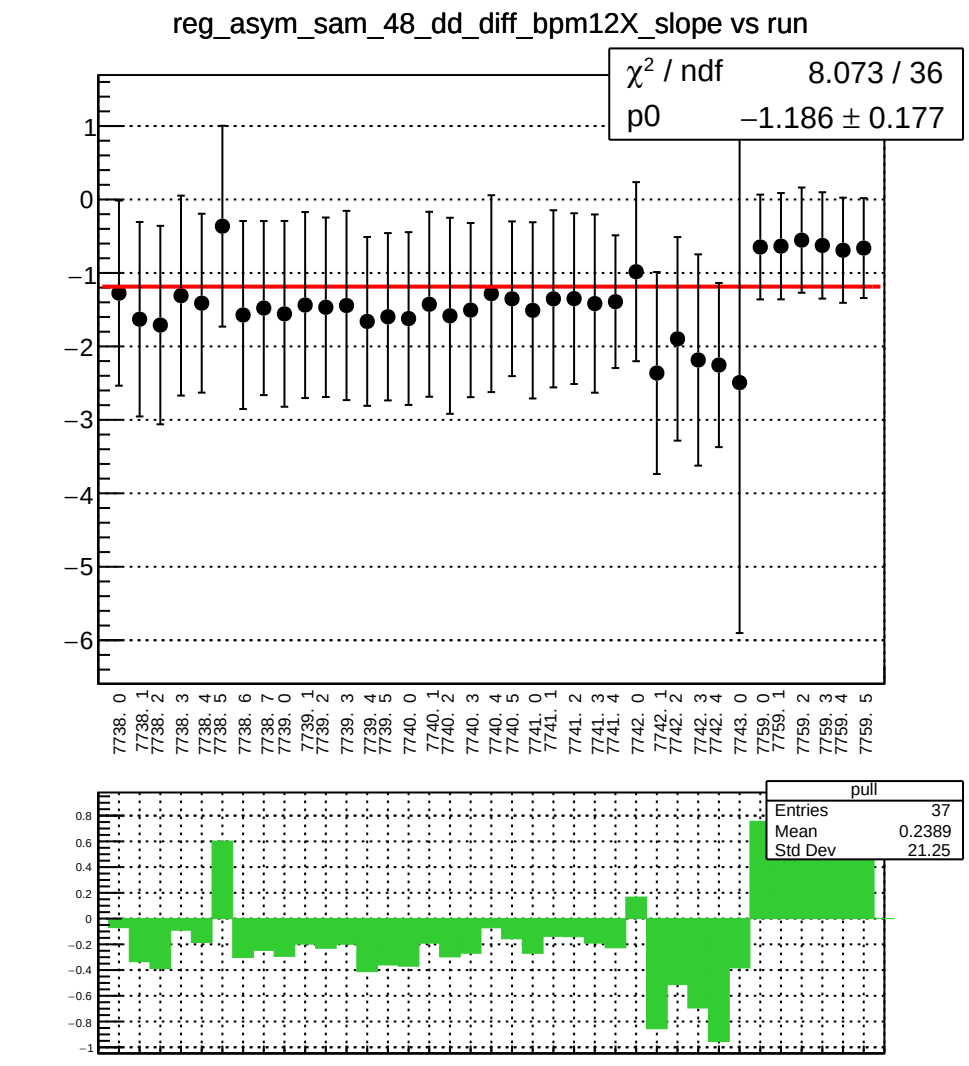

pull1D
Entries 37
Mean −0.1028
Std Dev 0.5019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

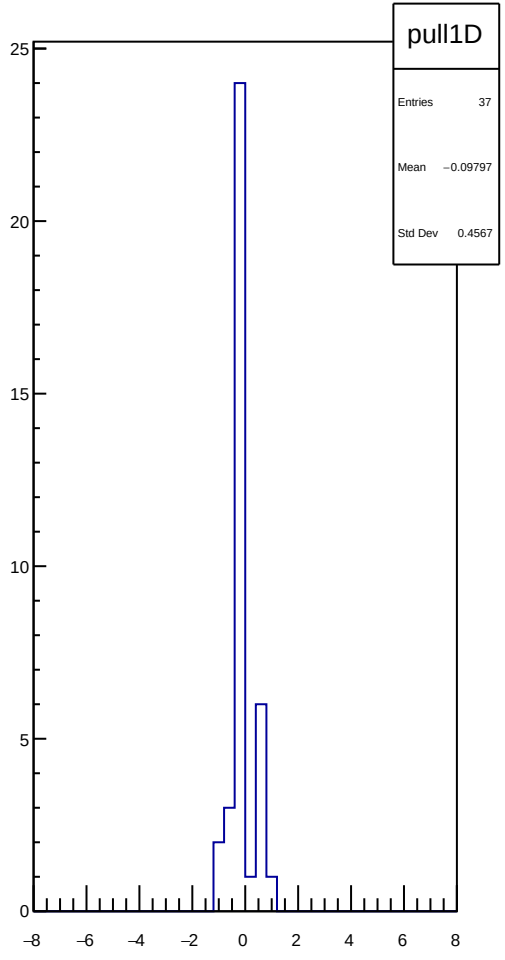

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.619 / 36
p0 77.92 ± 3.339
140
120
100
80
60
40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 139
Std Dev 114.3
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.009226
Std Dev 0.2659
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

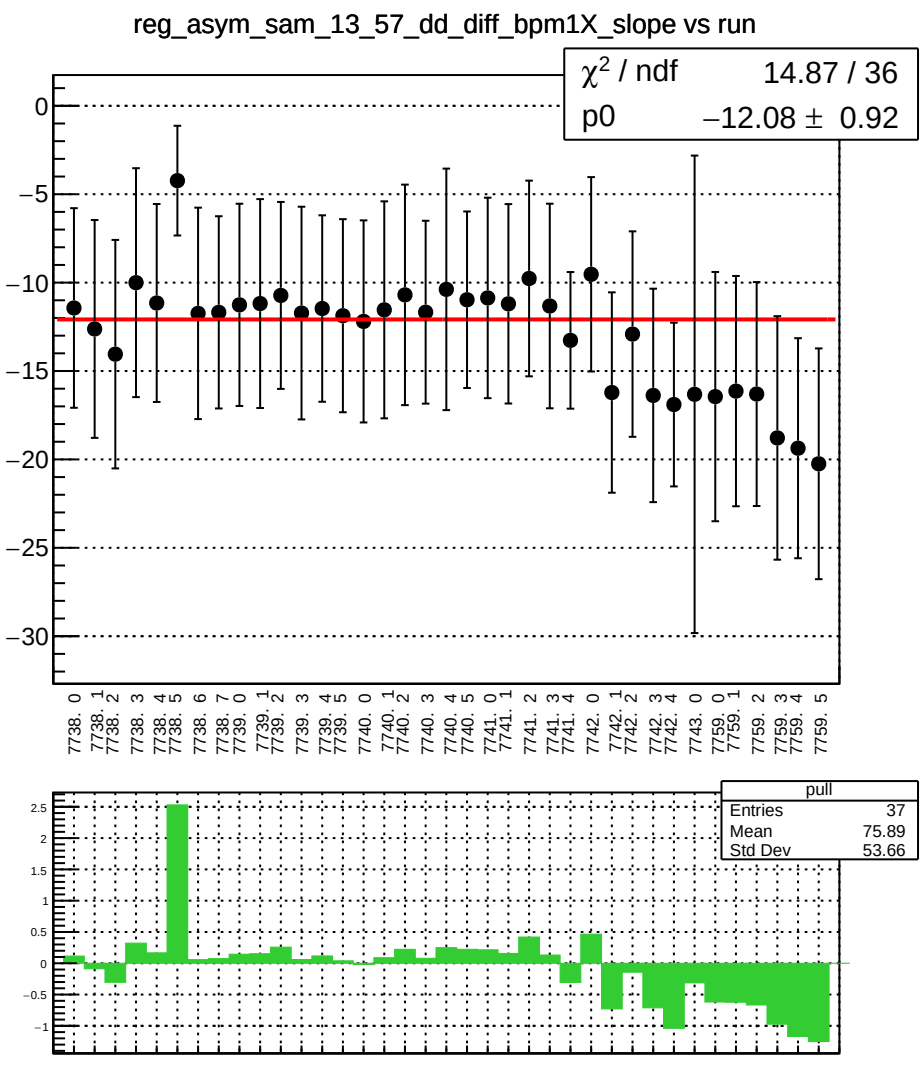

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.25 / 36
p0 −51.9 ± 2.906
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 44.6
Std Dev 21.1
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 37
Mean 0.1485
Std Dev 0.6864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

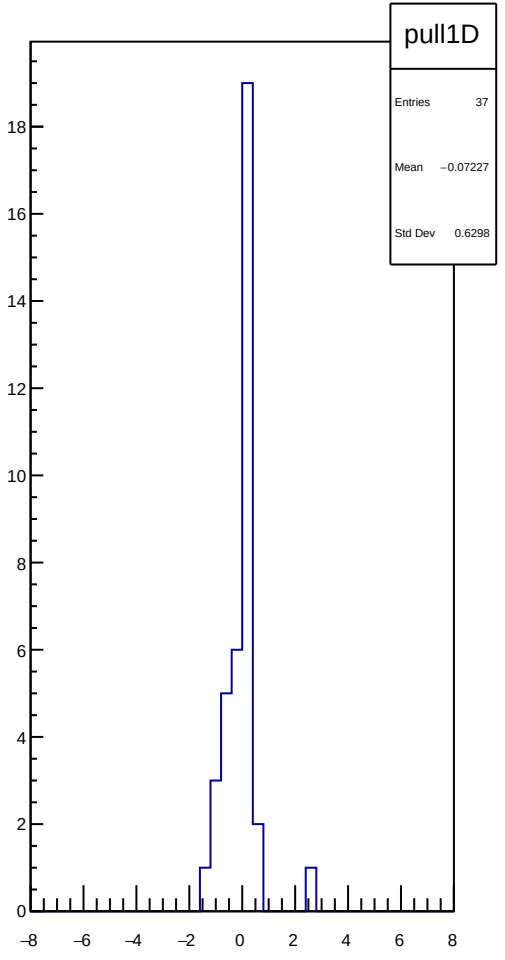

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.91 / 36
p0 −0.7425 ± 5.609
pull
Entries 37
Mean −23.64
Std Dev 45.33

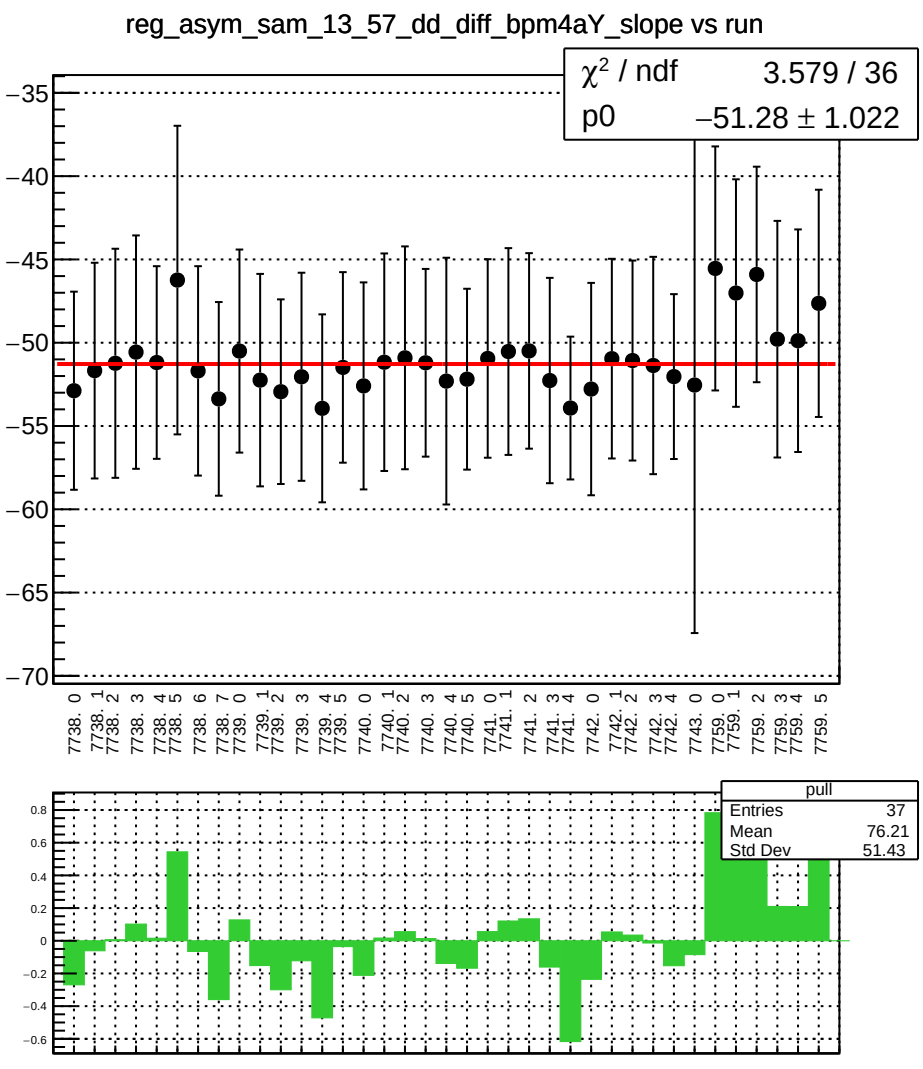

pull1D
Entries 37
Mean −0.08519
Std Dev 0.5844

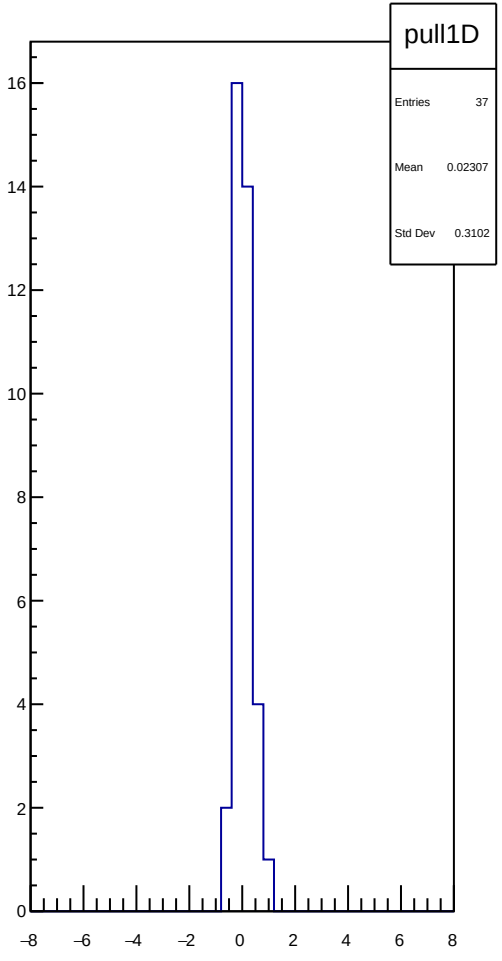

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 8.073 / 36
p0 −1.186 ± 0.177
pull
Entries 37
Mean 0.2389
Std Dev 21.25

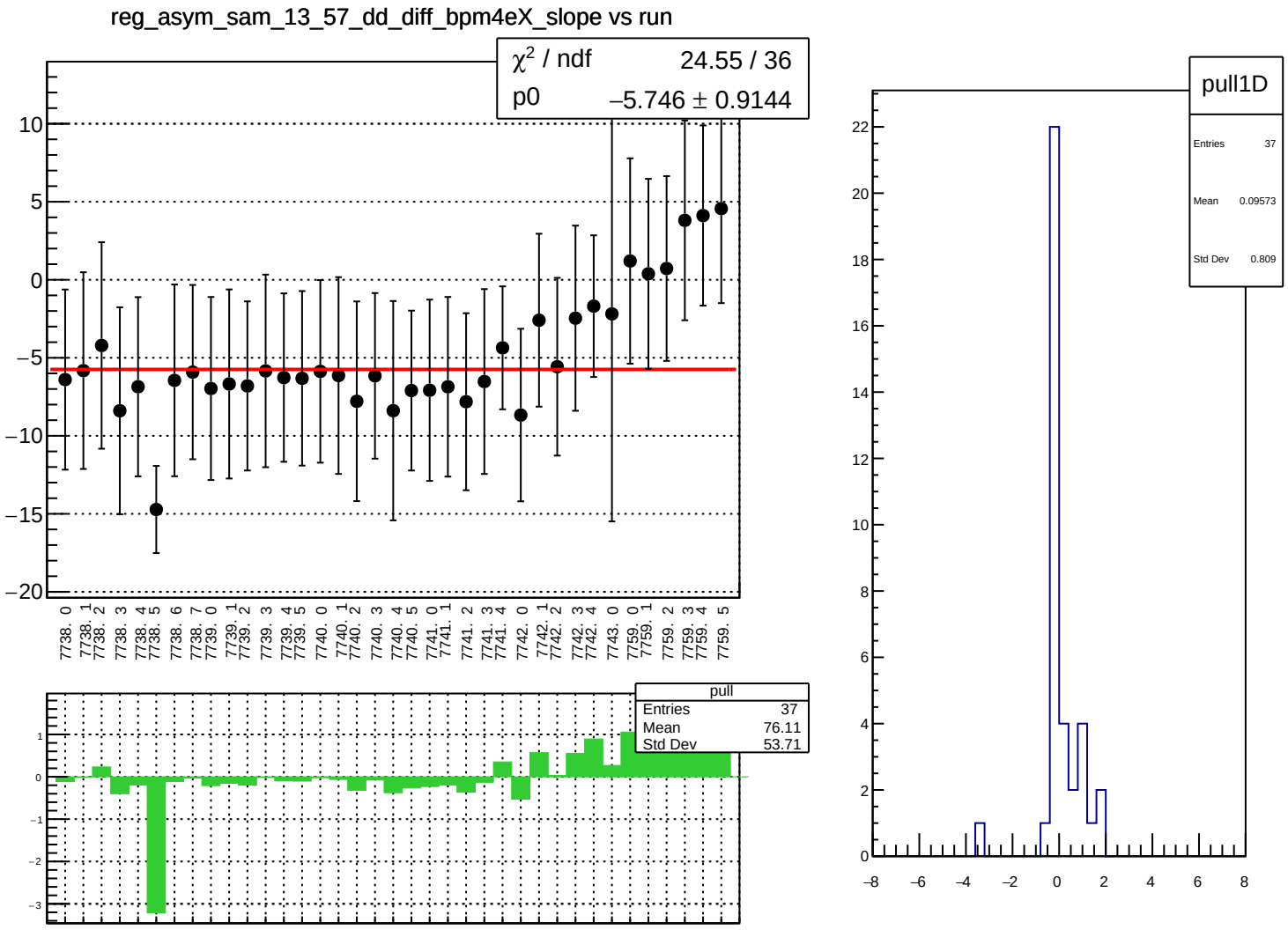

pull1D
Entries 37
Mean −0.09797
Std Dev 0.4567

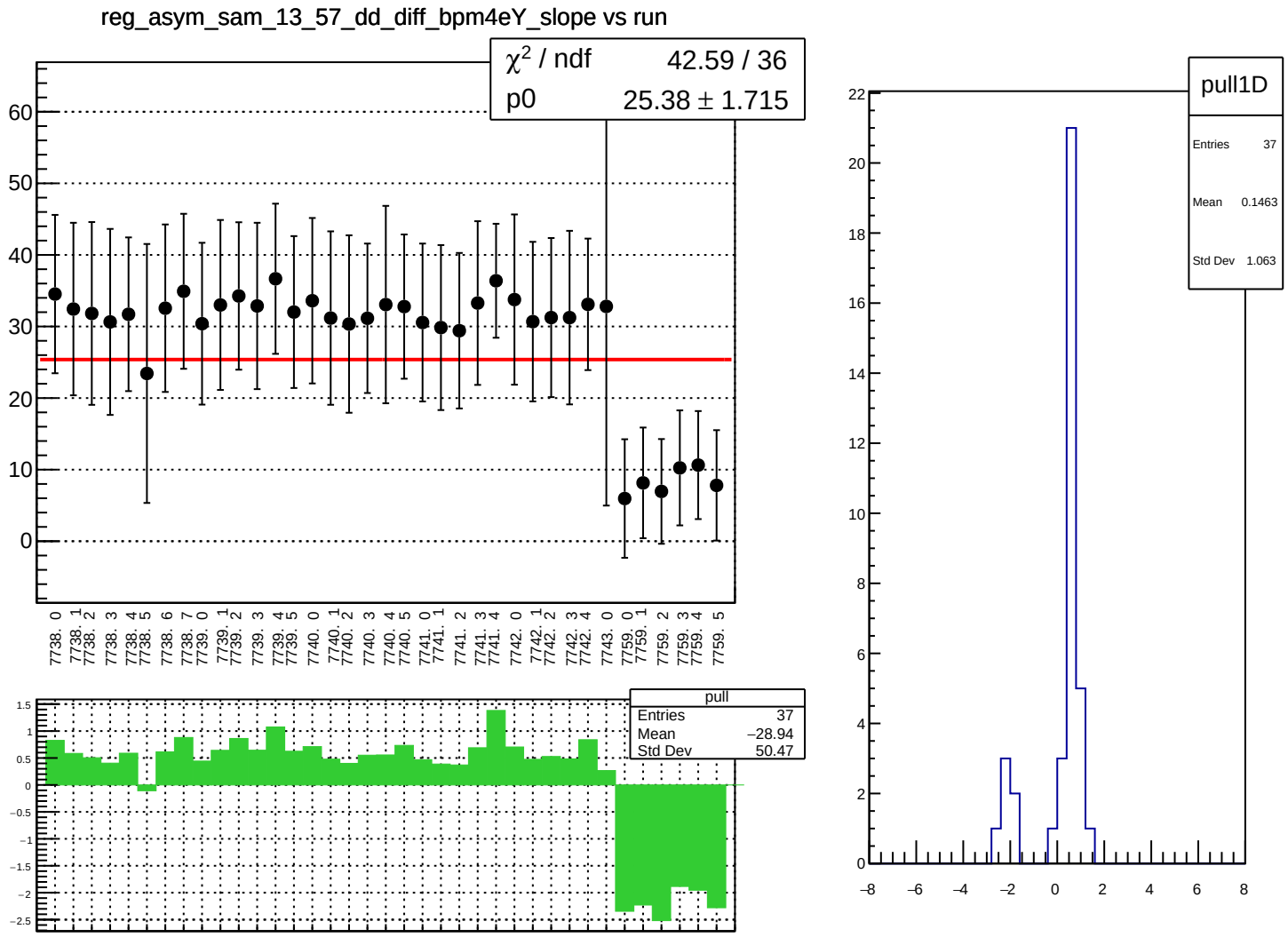

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 14.87 / 36
p0 −12.08 ± 0.92
0
−5
−10
−15
−20
−25
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 75.89
Std Dev 53.66
2.5
2
1.5
1
0.5
0
−0.5
−1

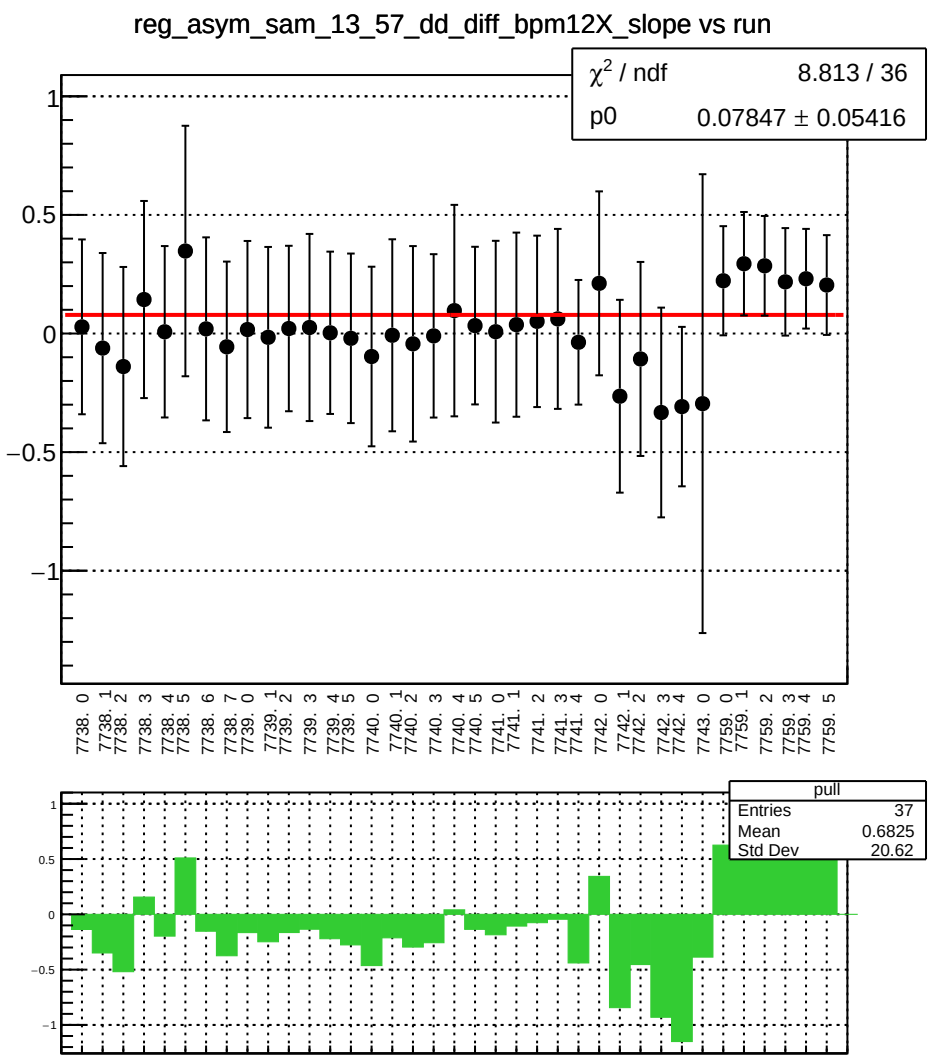

pull1D
Entries 37
Mean −0.07227
Std Dev 0.6298
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

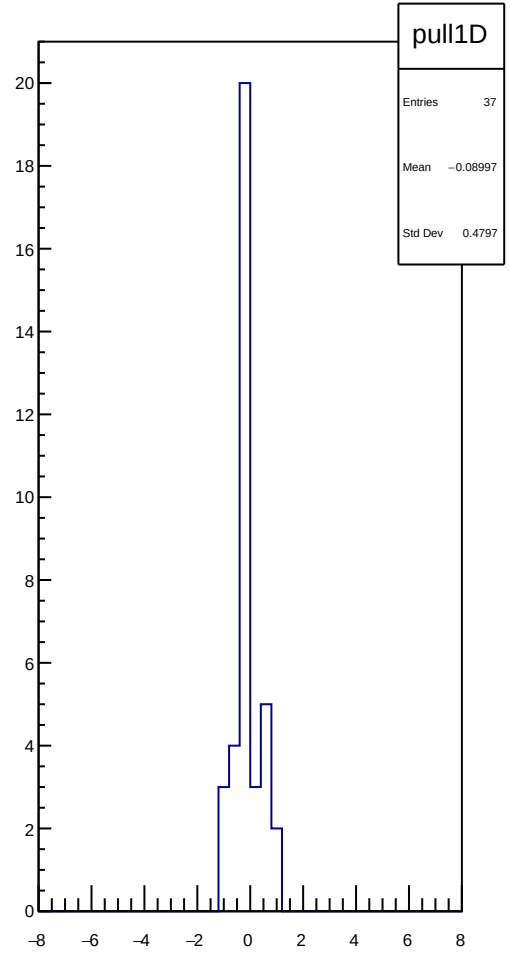

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.579 / 36
p0 −51.28 ± 1.022
pull
Entries 37
Mean 76.21
Std Dev 51.43

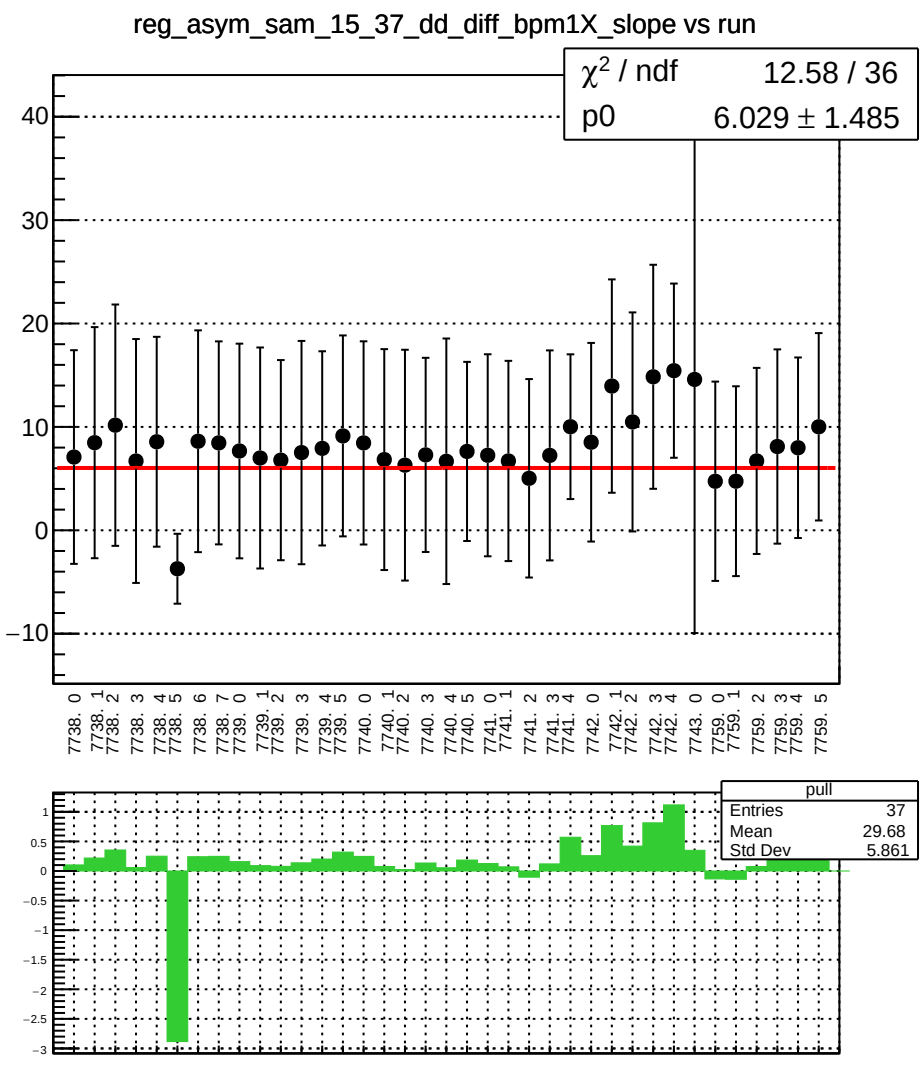

pull1D
Entries 37
Mean 0.02307
Std Dev 0.3102

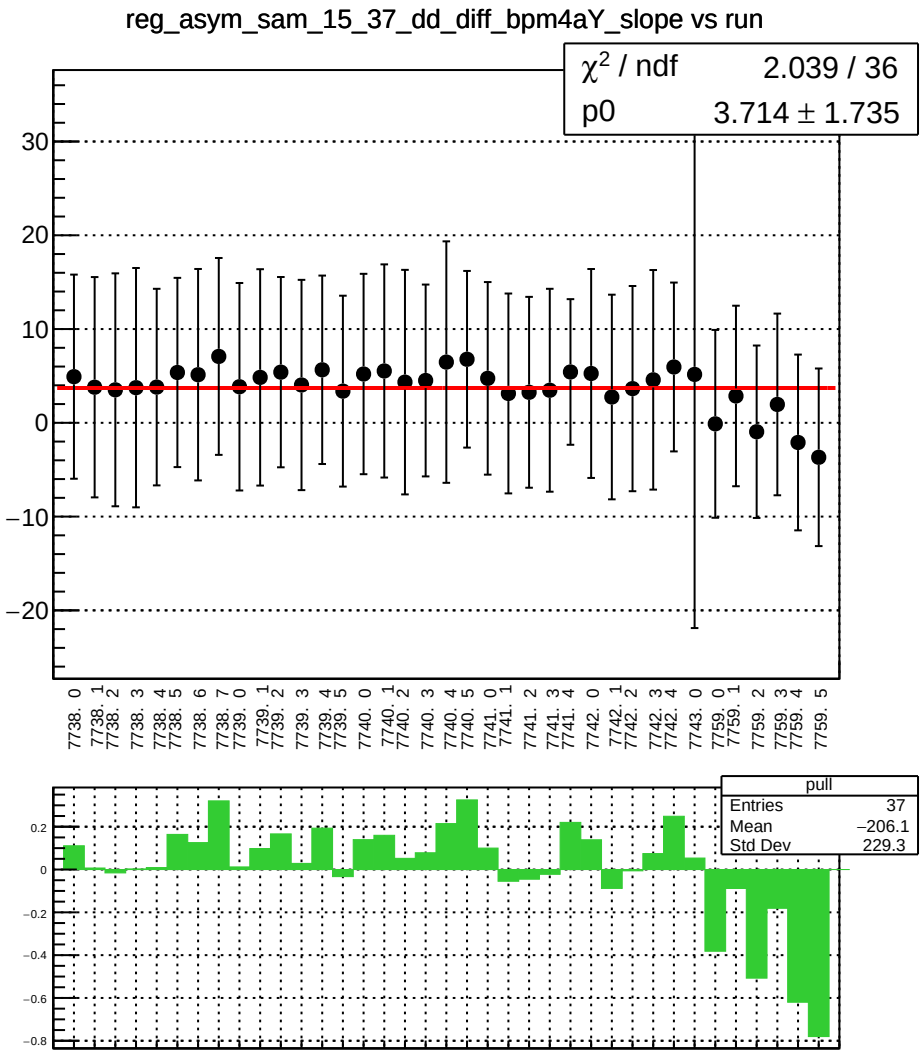

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.55 / 36
p0 −5.746 ± 0.9144
pull
Entries 37
Mean 76.11
Std Dev 53.71
pull1D
Entries 37
Mean 0.09573
Std Dev 0.809

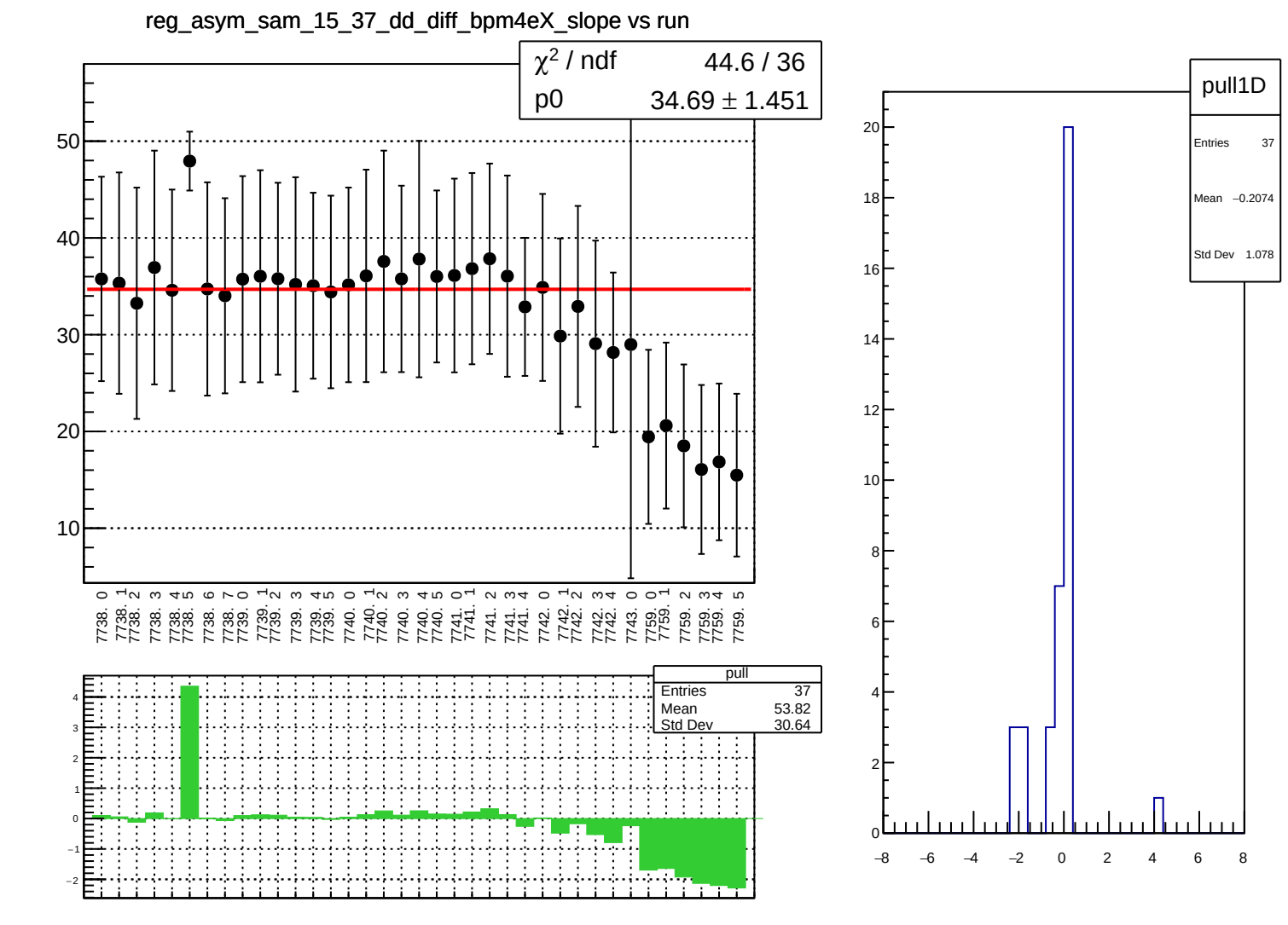

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.59 / 36
p0 25.38 ± 1.715
pull
Entries 37
Mean −28.94
Std Dev 50.47
pull1D
Entries 37
Mean 0.1463
Std Dev 1.063

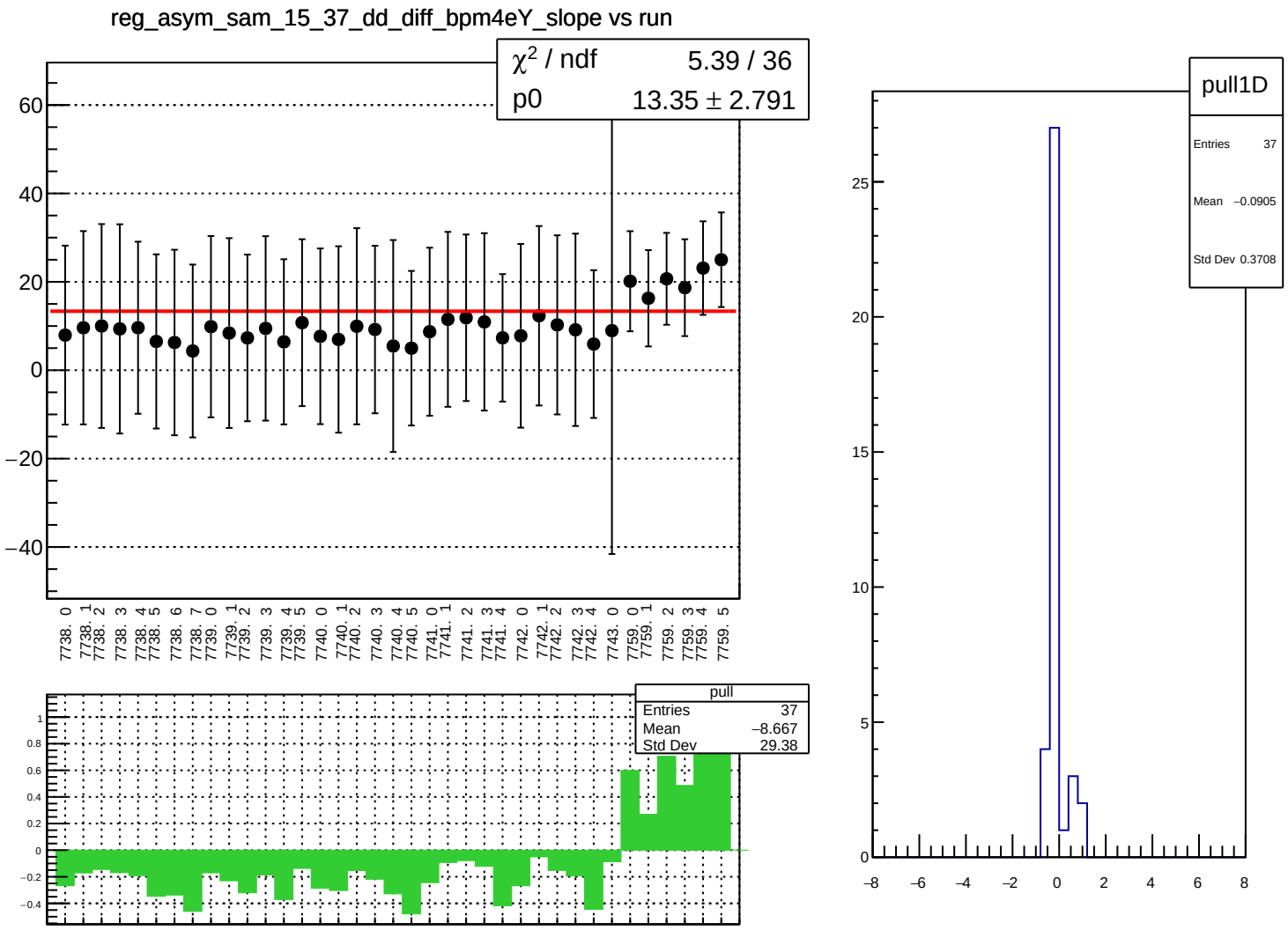

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 8.813 / 36
p0 0.07847 ± 0.05416
pull
Entries 37
Mean 0.6825
Std Dev 20.62

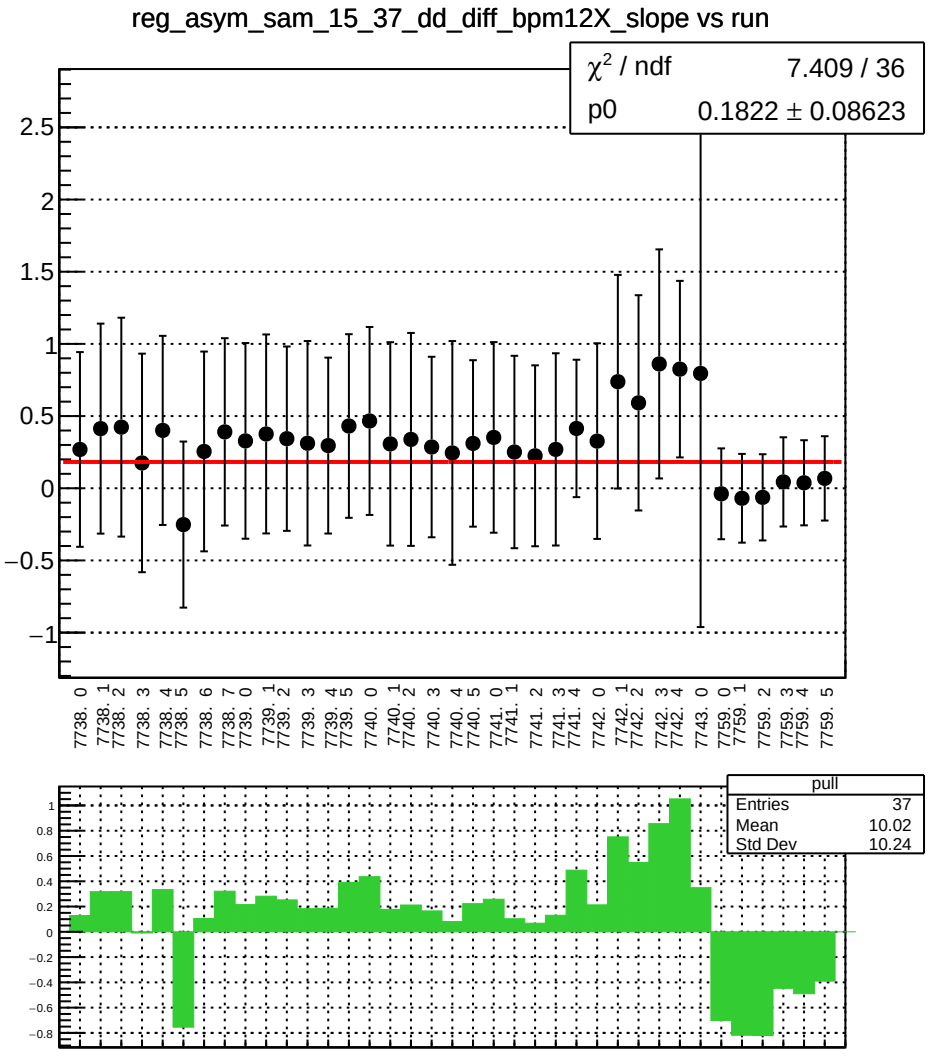

pull1D
Entries 37
Mean −0.08997
Std Dev 0.4797

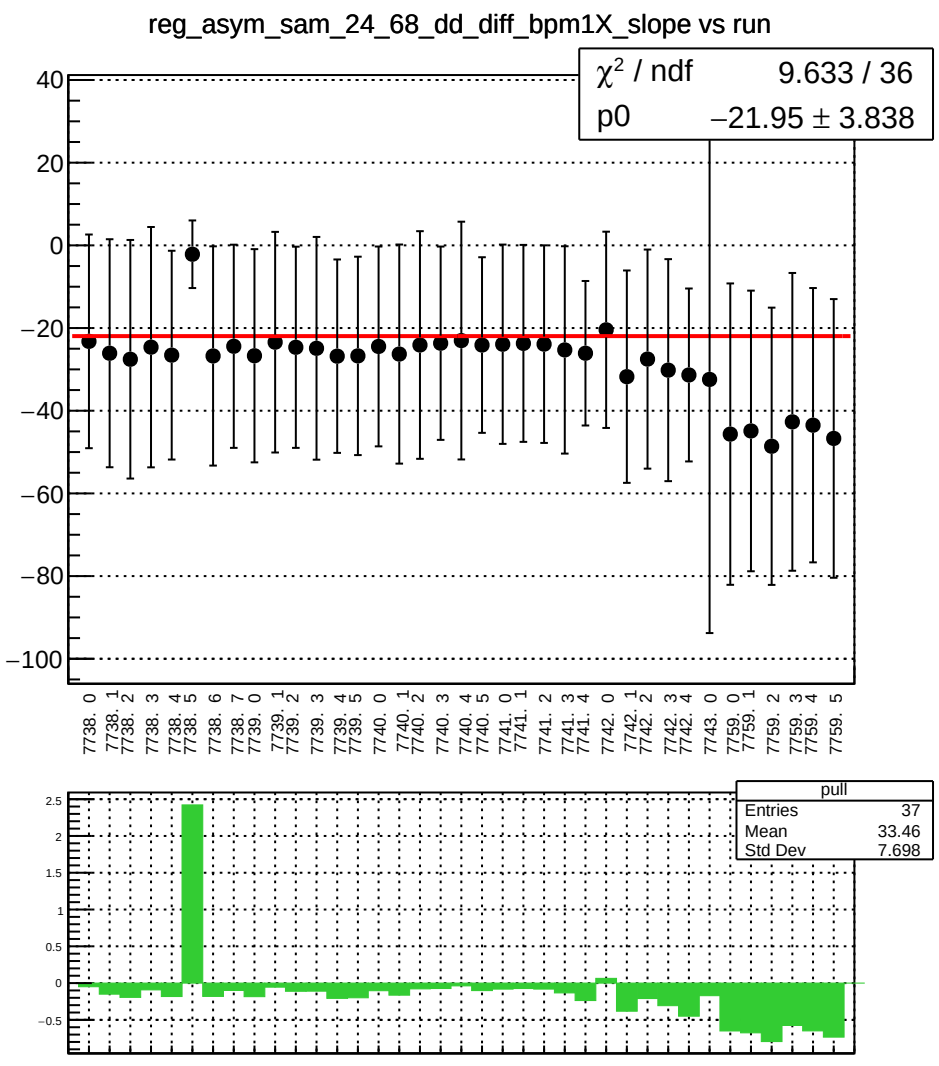

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 12.58 / 36
p0 6.029 ± 1.485
40
30
20
10
0
−10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 29.68
Std Dev 5.861
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 37
Mean 0.1484
Std Dev 0.5639
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

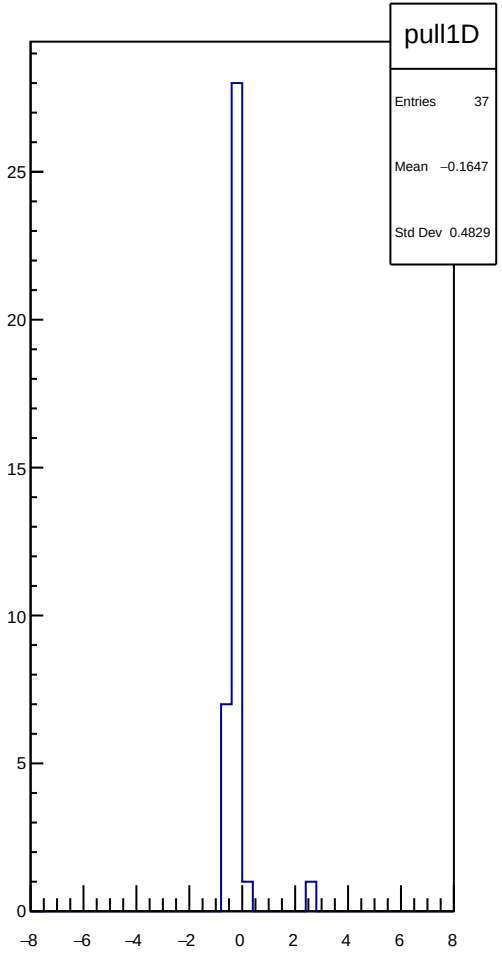

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.039 / 36
p0 3.714 ± 1.735
30
20
10
0
−10
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −206.1
Std Dev 229.3
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean 0.005959
Std Dev 0.2347
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

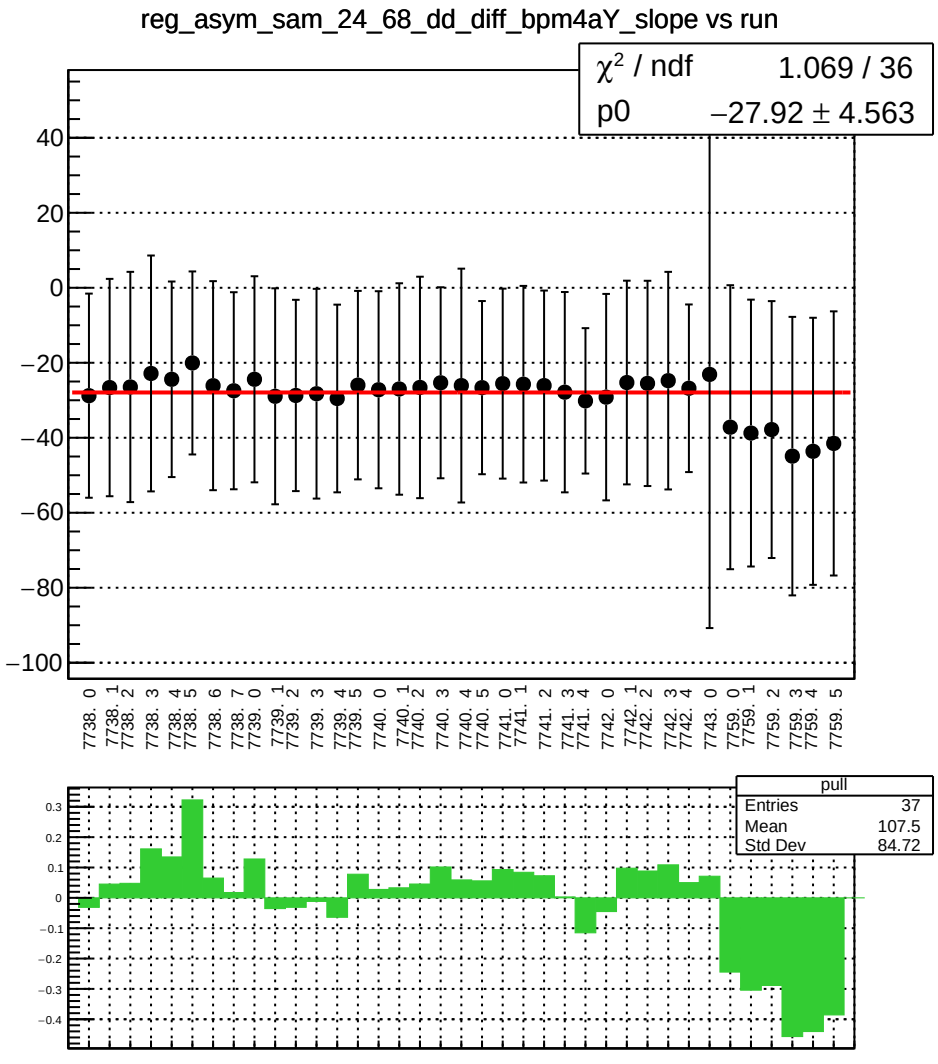

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.6 / 36
p0 34.69 ± 1.451
pull
Entries 37
Mean 53.82
Std Dev 30.64
pull1D
Entries 37
Mean −0.2074
Std Dev 1.078

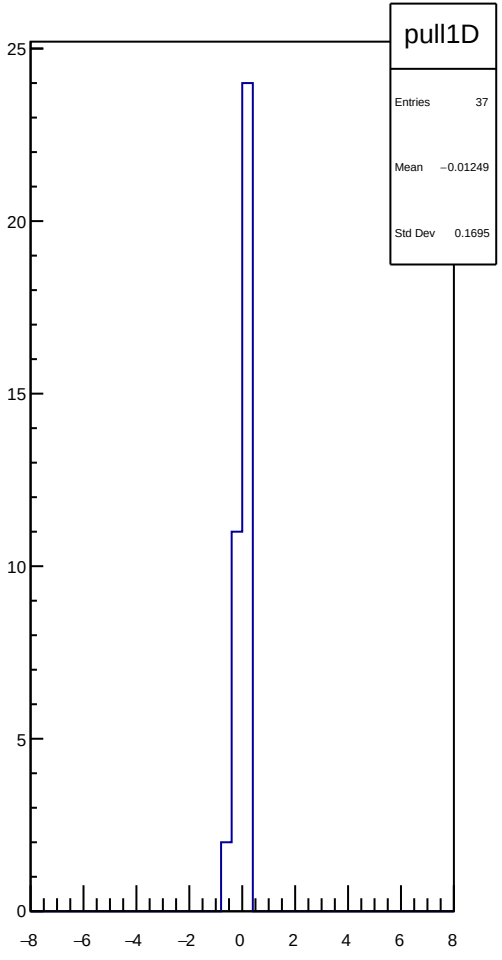

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.39 / 36
p0 13.35 ± 2.791
pull
Entries 37
Mean −8.667
Std Dev 29.38
pull1D
Entries 37
Mean −0.0905
Std Dev 0.3708

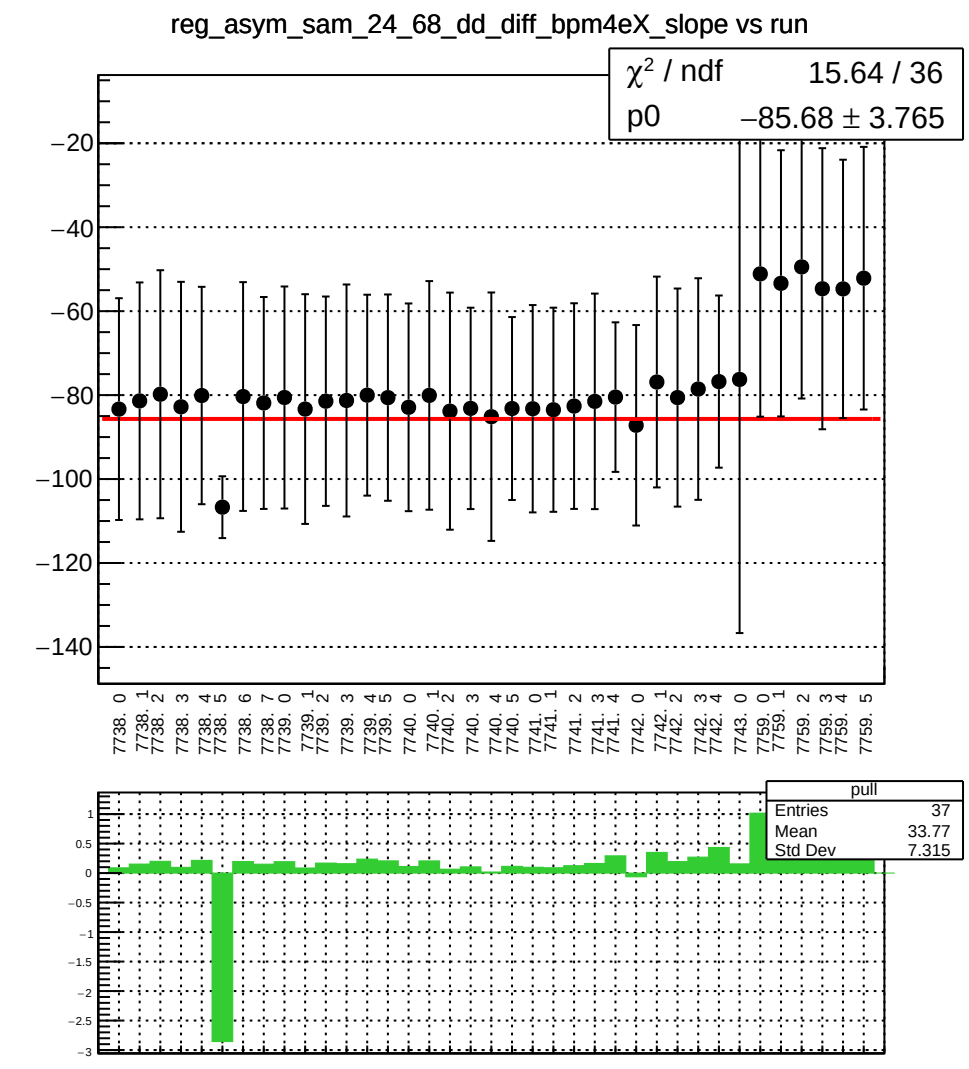

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 7.409 / 36
p0 0.1822 ± 0.08623
pull
Entries 37
Mean 10.02
Std Dev 10.24
pull1D
Entries 37
Mean 0.1274
Std Dev 0.429

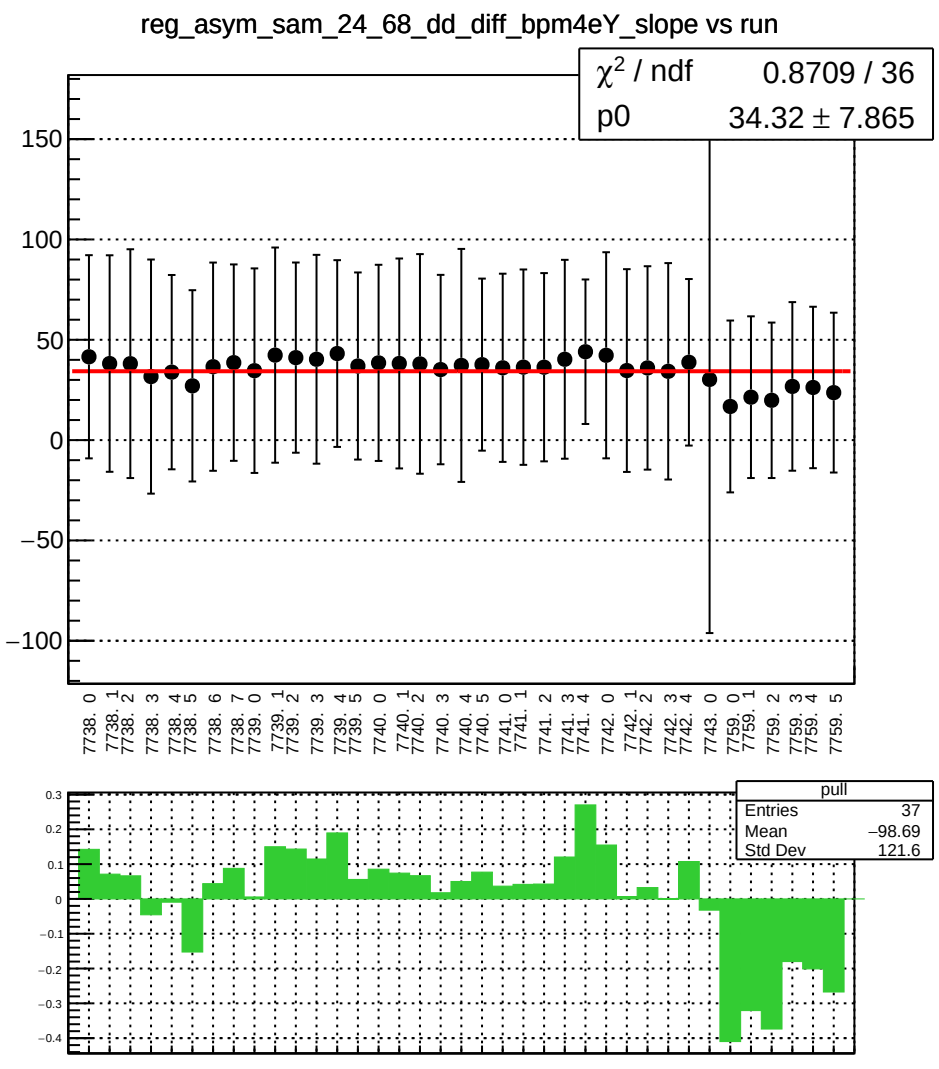

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 9.633 / 36
p0 −21.95 ± 3.838
pull
Entries 37
Mean 33.46
Std Dev 7.698

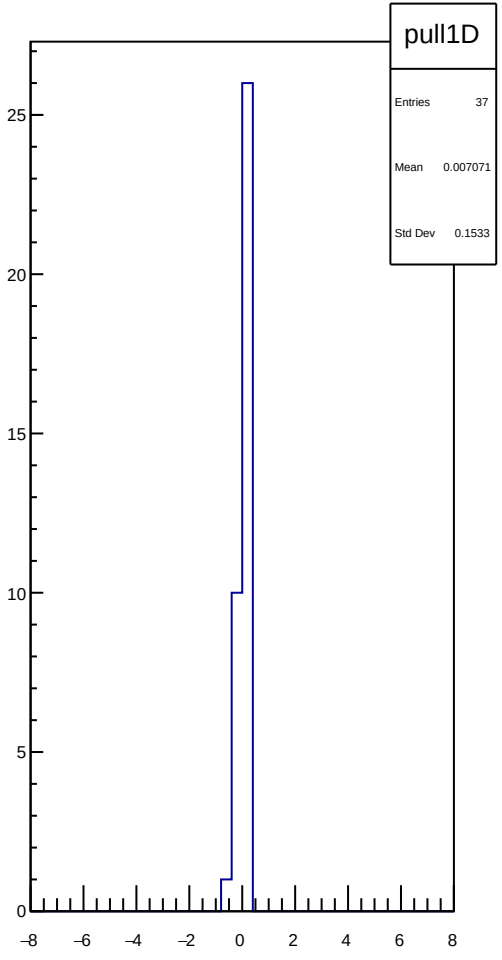

pull1D
Entries 37
Mean −0.1647
Std Dev 0.4829

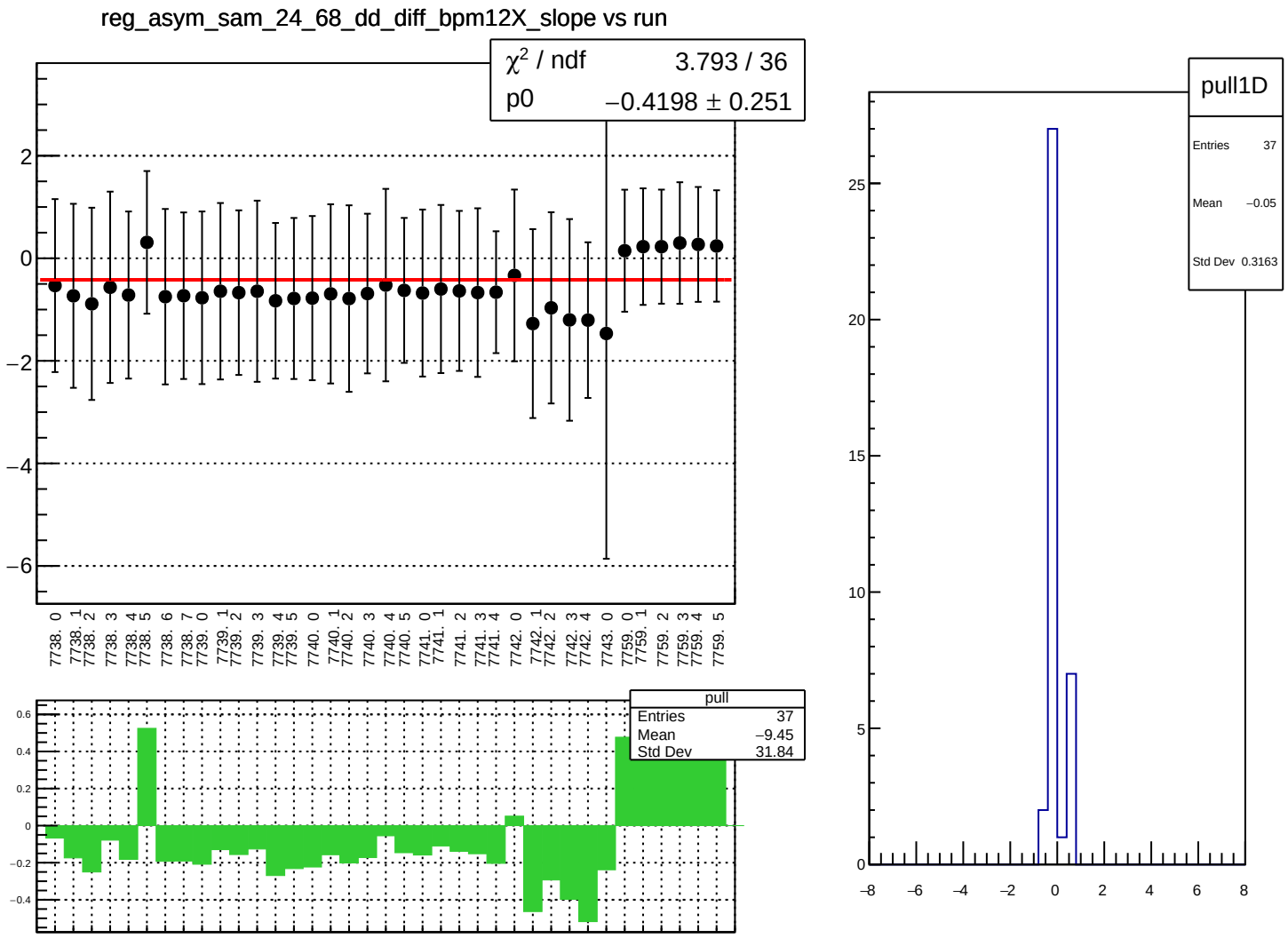

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.069 / 36
p0 −27.92 ± 4.563
pull
Entries 37
Mean 107.5
Std Dev 84.72

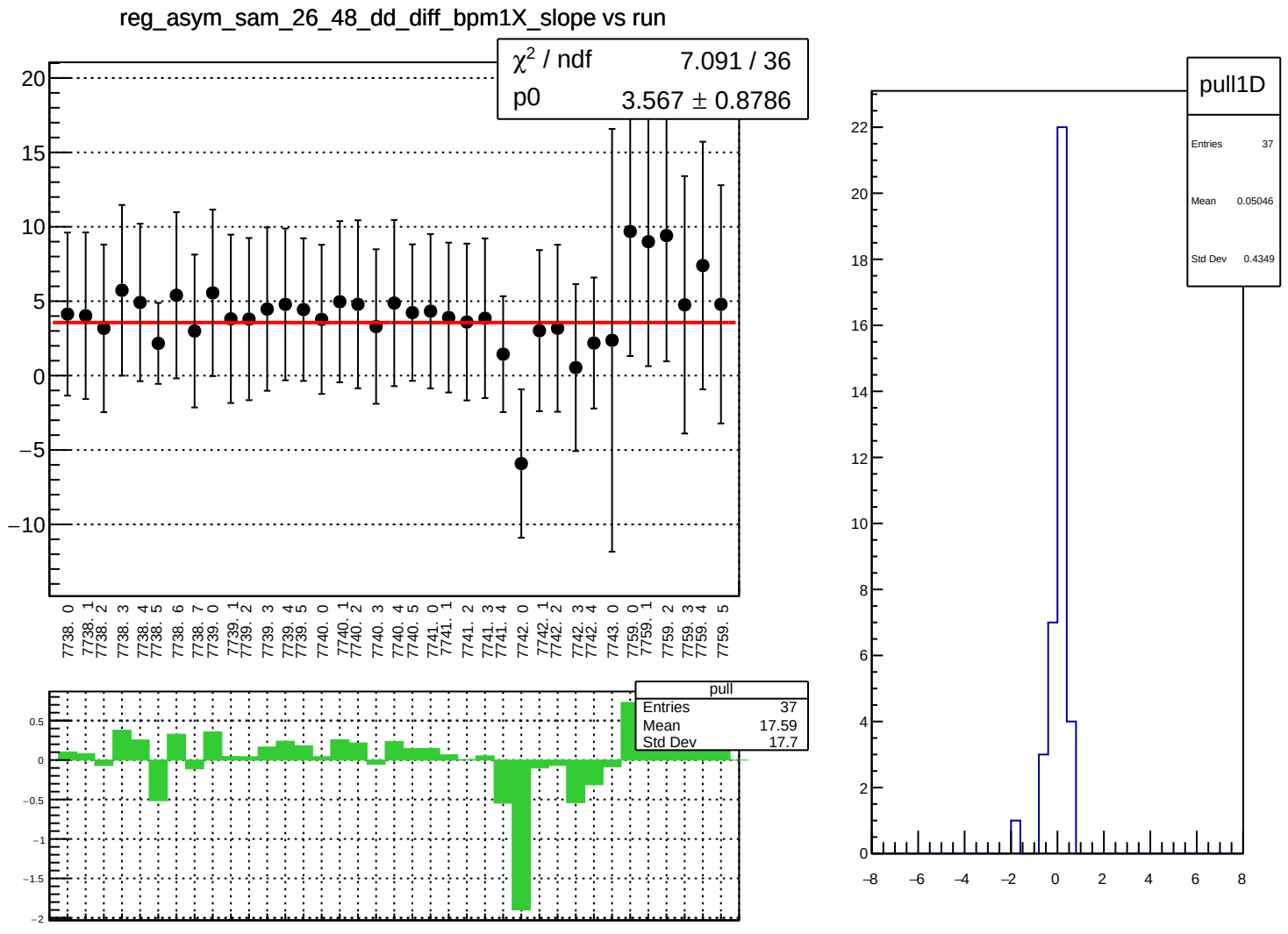

pull1D
Entries 37
Mean −0.01249
Std Dev 0.1695

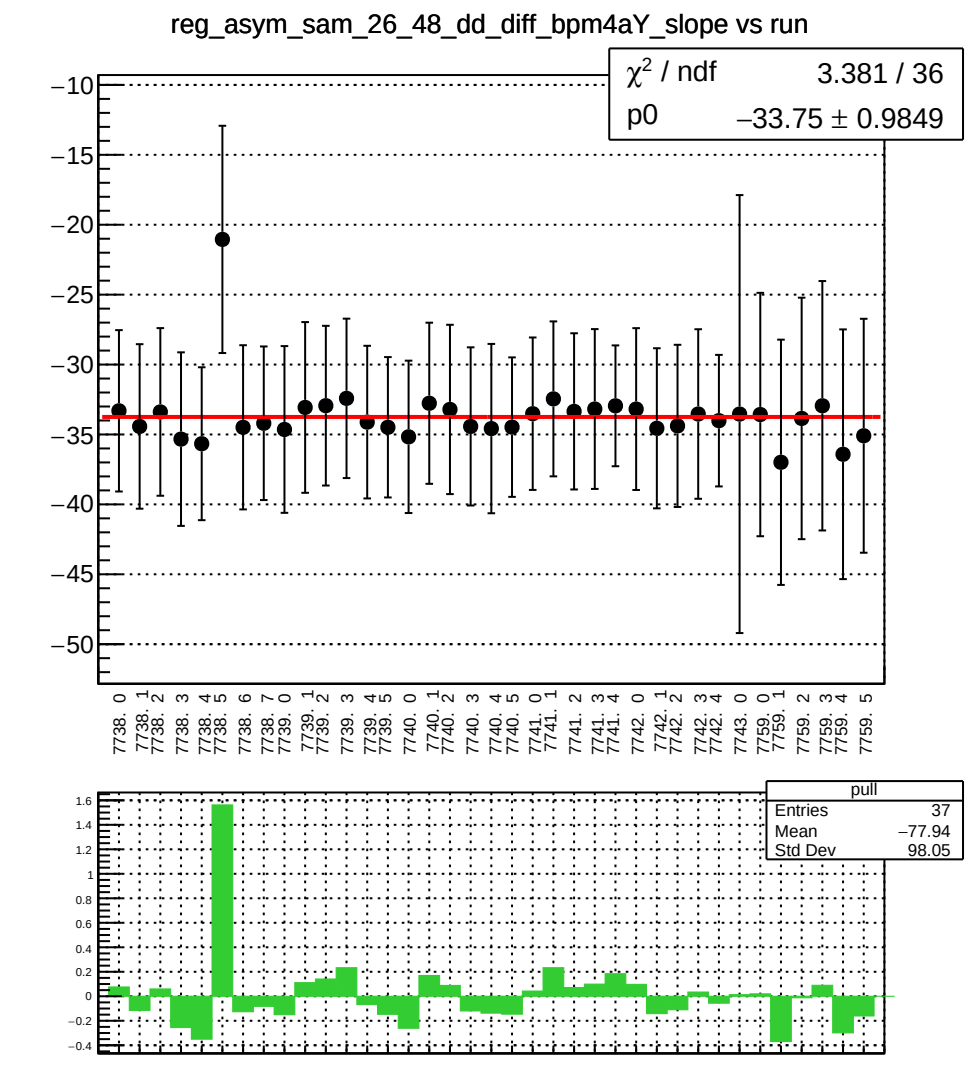

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.64 / 36
p0 −85.68 ± 3.765
−20
−40
−60
−80
−100
−120
−140
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 33.77
Std Dev 7.315
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 37
Mean 0.2222
Std Dev 0.6111
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

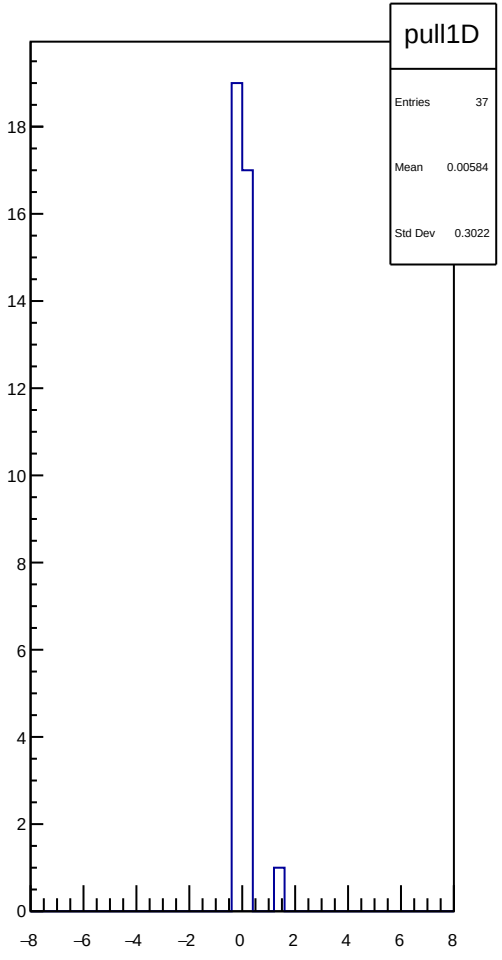

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.8709 / 36
p0 34.32 ± 7.865
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −98.69
Std Dev 121.6
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

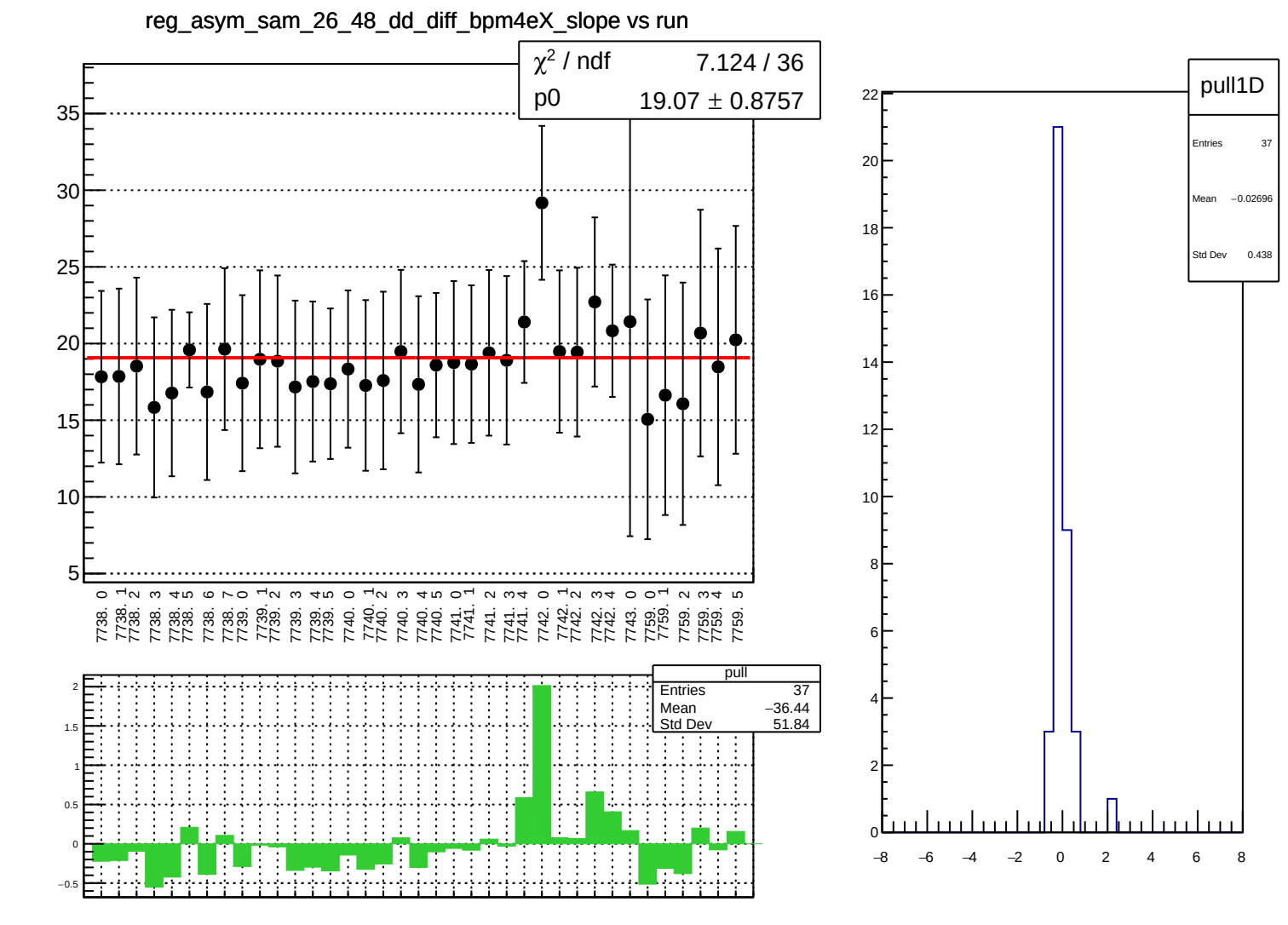

pull1D
Entries 37
Mean 0.007071
Std Dev 0.1533
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

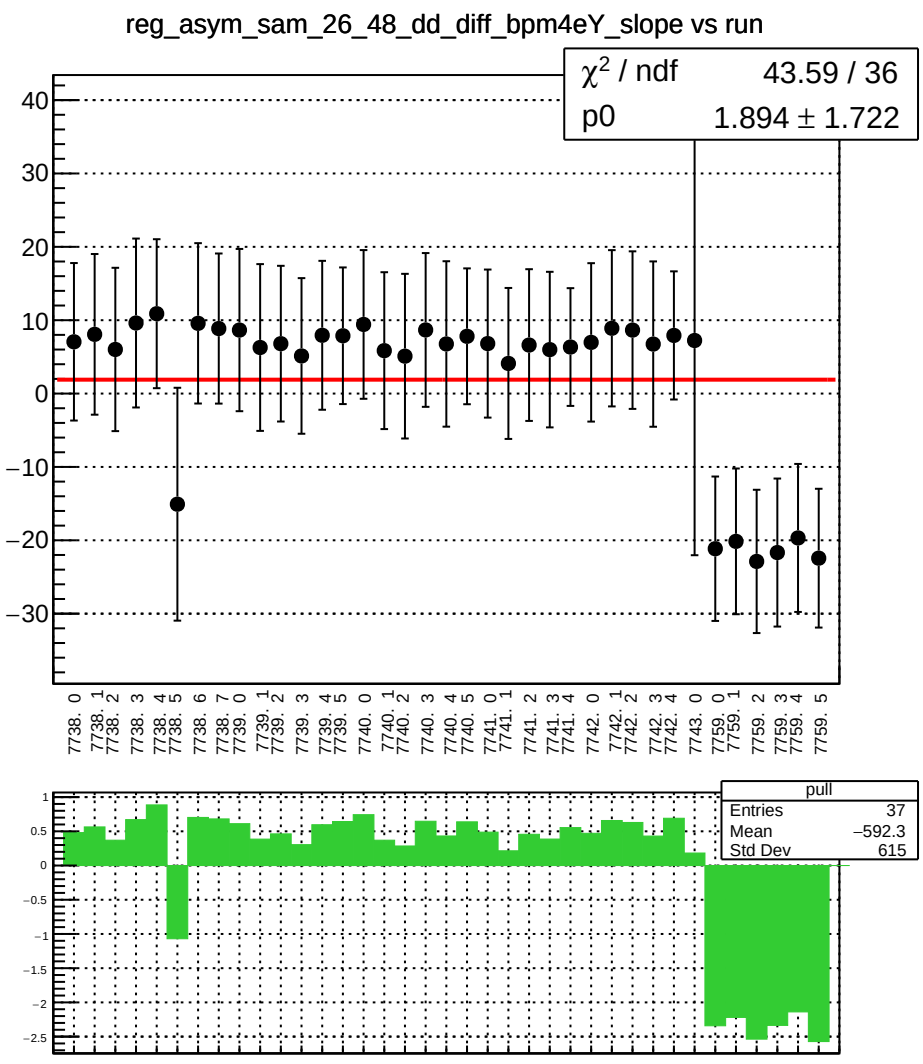

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.793 / 36
p0 −0.4198 ± 0.251
2
0
−2
−4
−6
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −9.45
Std Dev 31.84
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean −0.05
Std Dev 0.3163
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

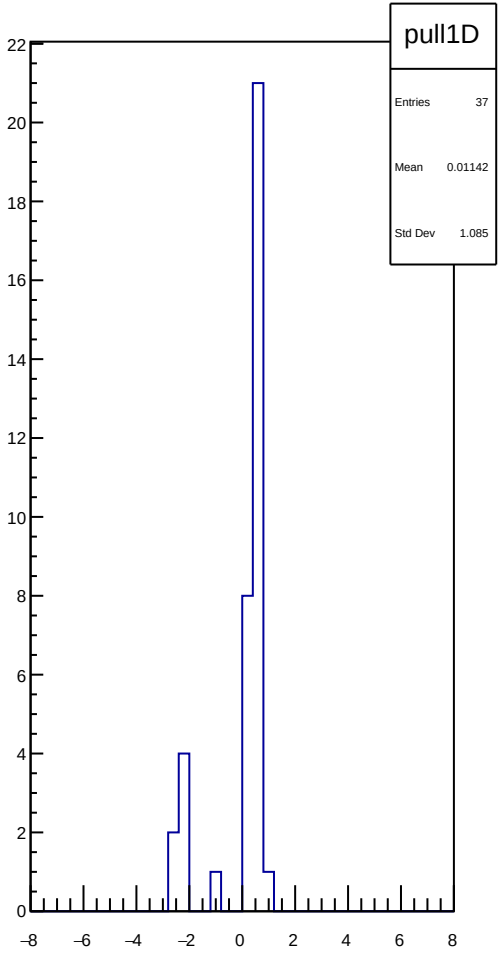

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.091 / 36
p0 3.567 ± 0.8786
pull
Entries 37
Mean 17.59
Std Dev 17.7
pull1D
Entries 37
Mean 0.05046
Std Dev 0.4349

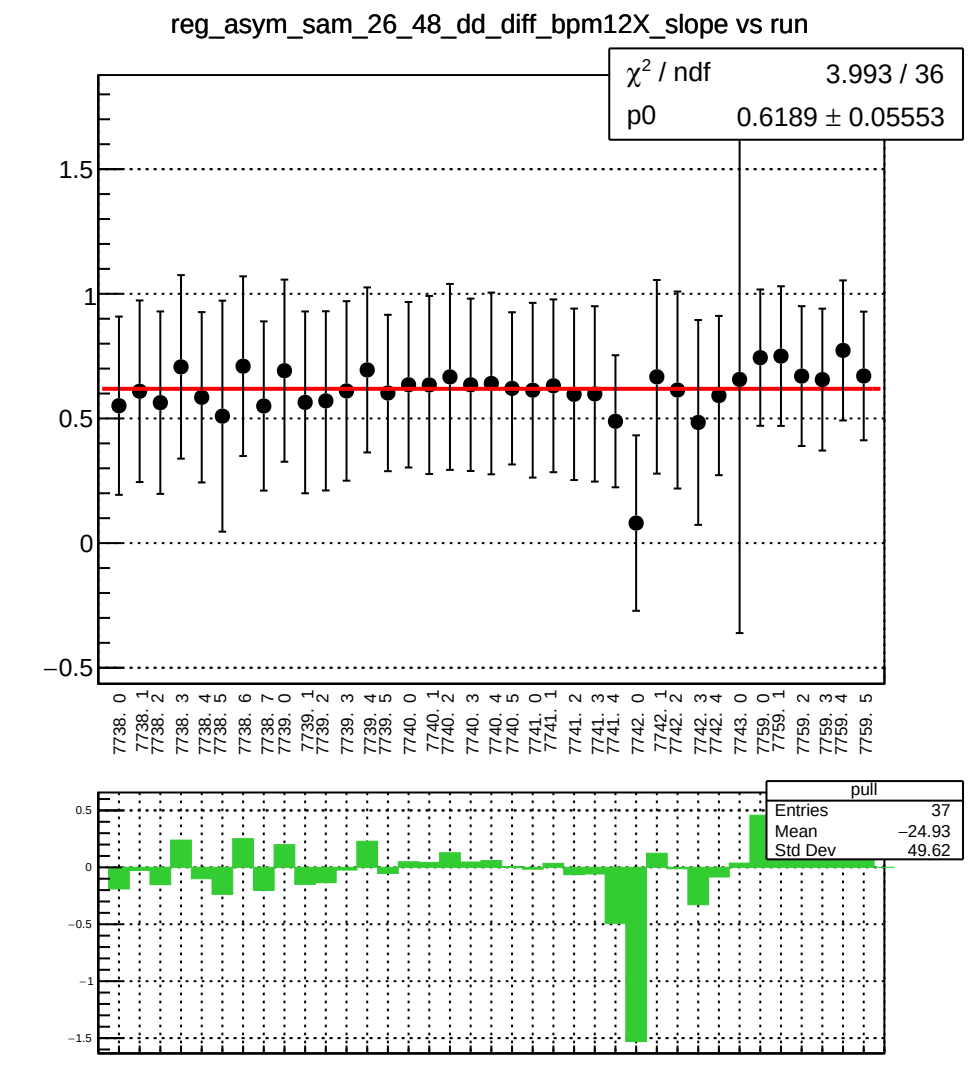

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.381 / 36
p0 −33.75 ± 0.9849
pull
Entries 37
Mean −77.94
Std Dev 98.05

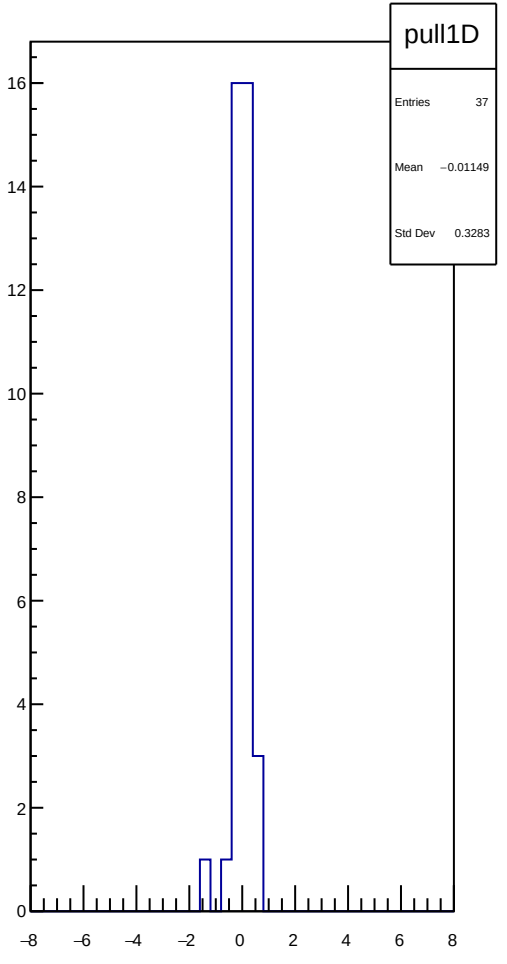

pull1D
Entries 37
Mean 0.00584
Std Dev 0.3022

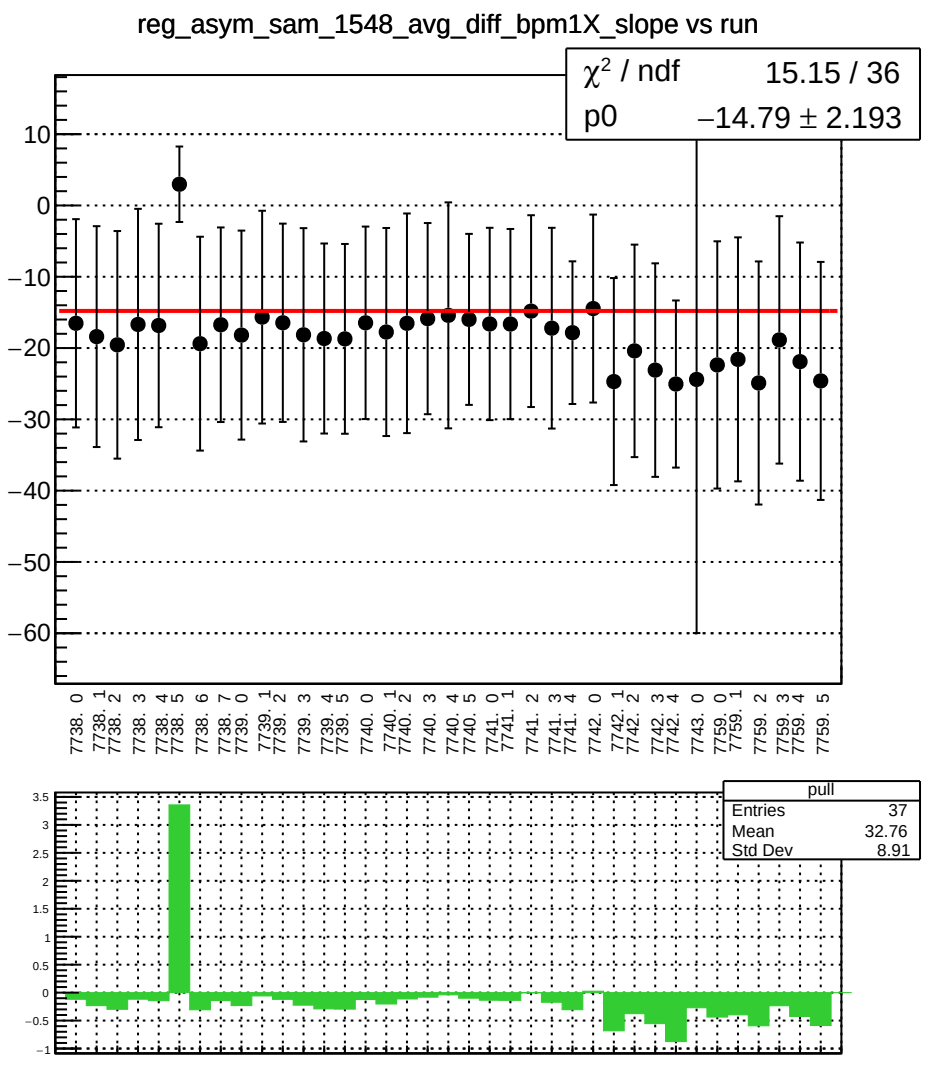

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.124 / 36
p0 19.07 ± 0.8757
pull
Entries 37
Mean −36.44
Std Dev 51.84
pull1D
Entries 37
Mean −0.02696
Std Dev 0.438

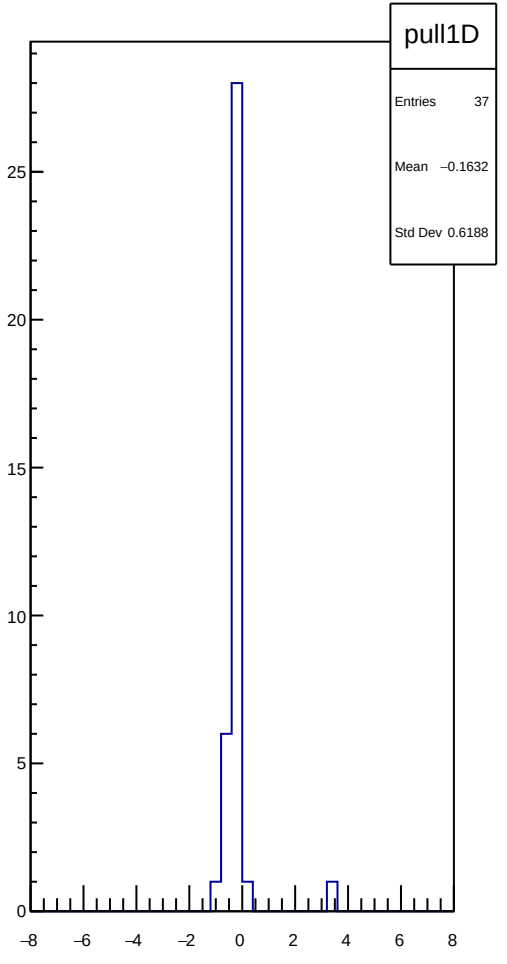

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.59 / 36
p0 1.894 ± 1.722
pull
Entries 37
Mean −592.3
Std Dev 615

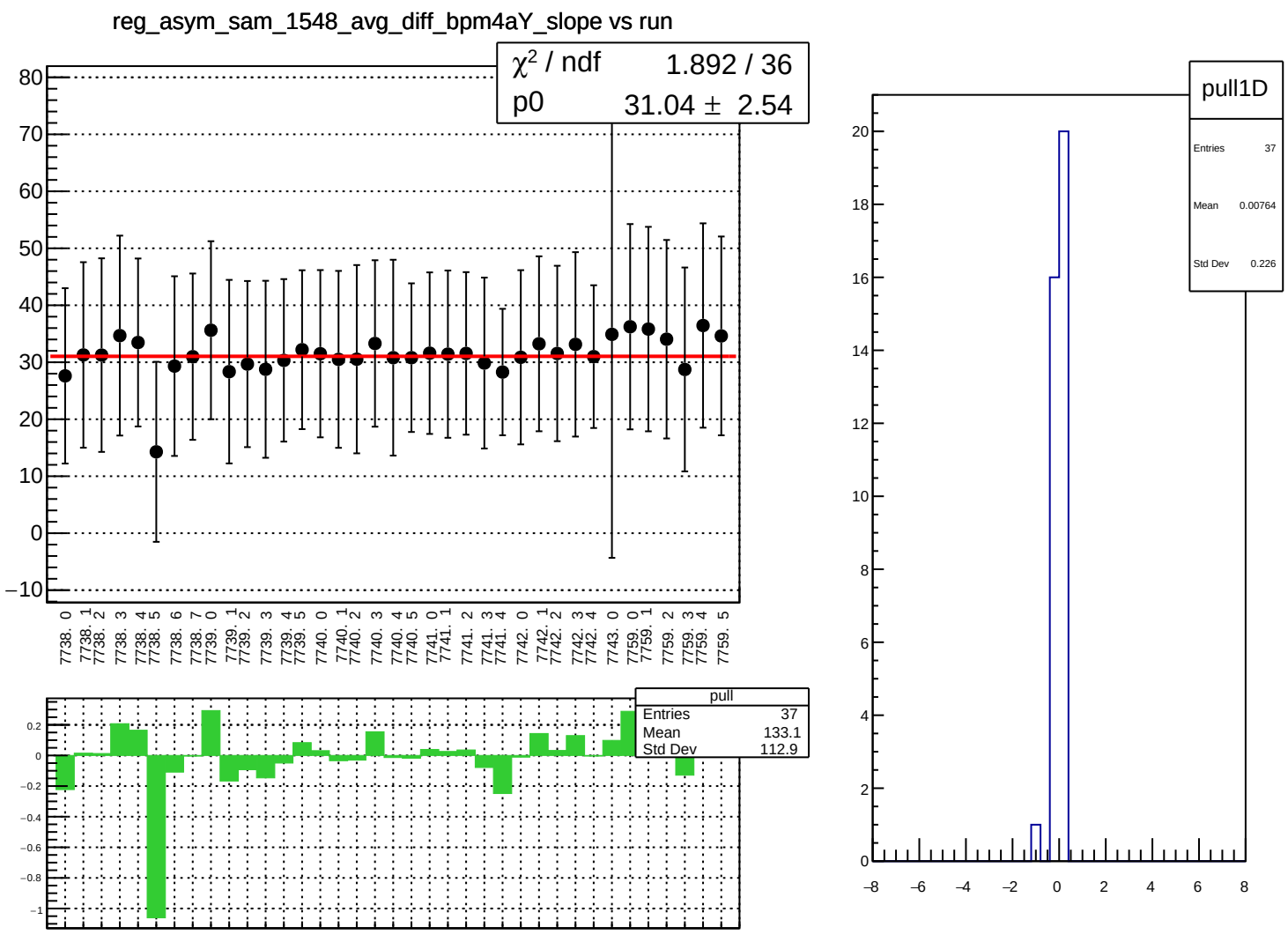

pull1D
Entries 37
Mean 0.01142
Std Dev 1.085

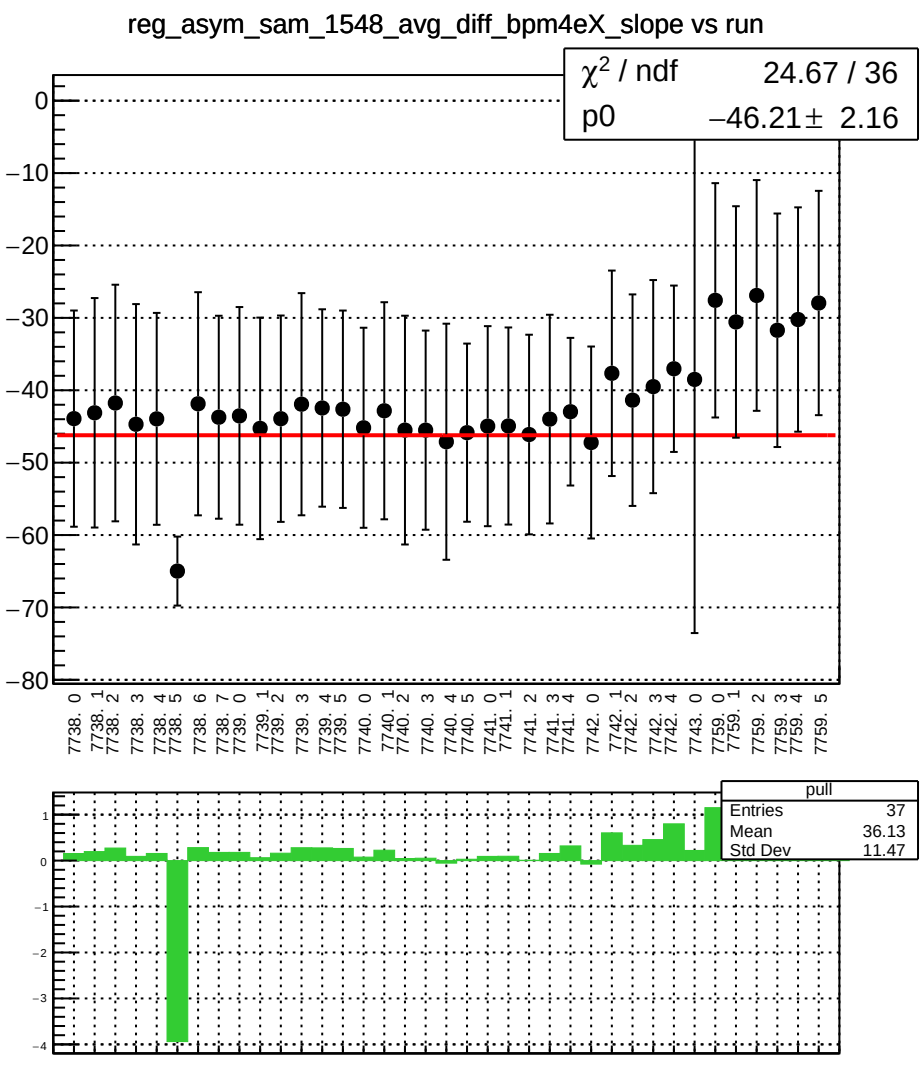

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.993 / 36
p0 0.6189 ± 0.05553
1.5
1
0.5
0
−0.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −24.93
Std Dev 49.62
0.5
0
−0.5
−1
−1.5

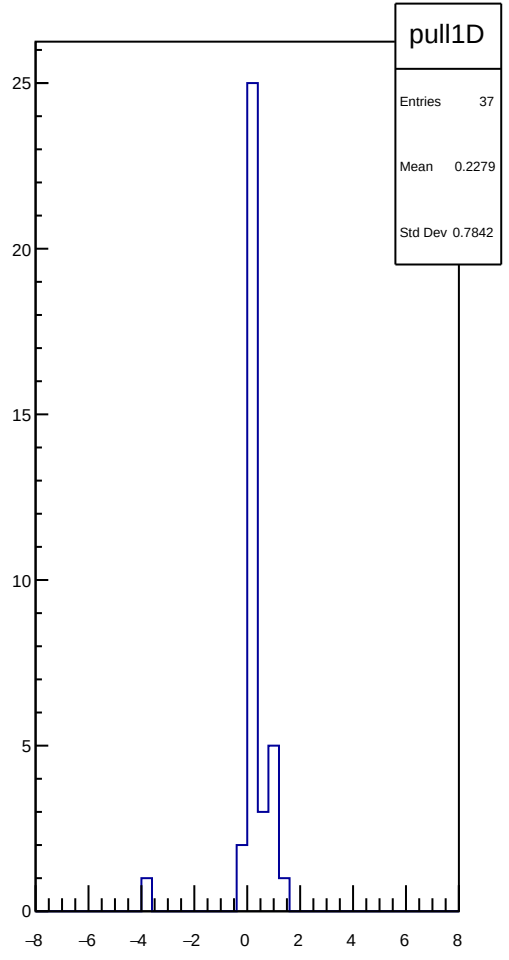

pull1D
Entries 37
Mean −0.01149
Std Dev 0.3283
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

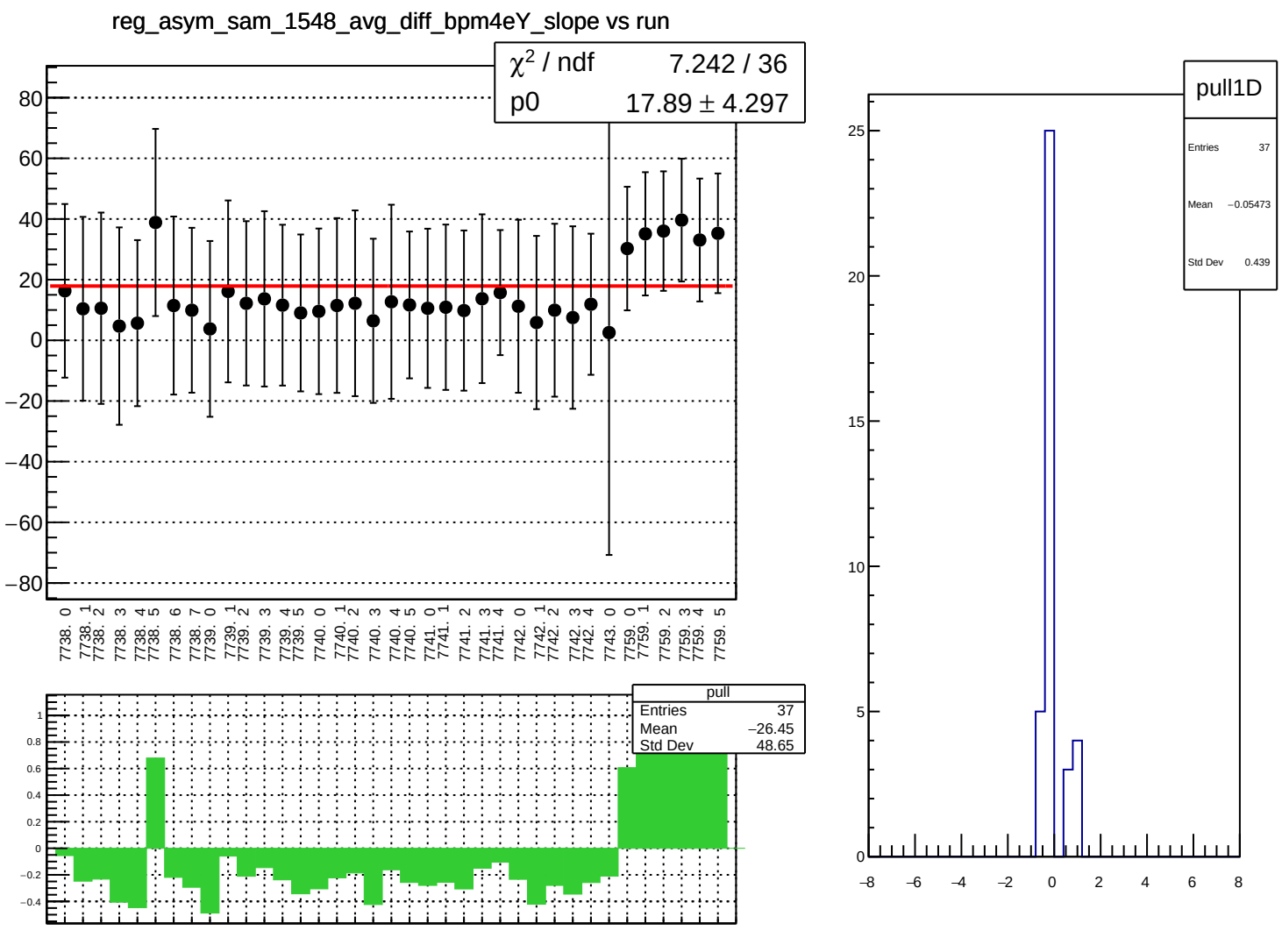

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 15.15 / 36
p0 −14.79 ± 2.193
10
0
−10
−20
−30
−40
−50
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 32.76
Std Dev 8.91
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

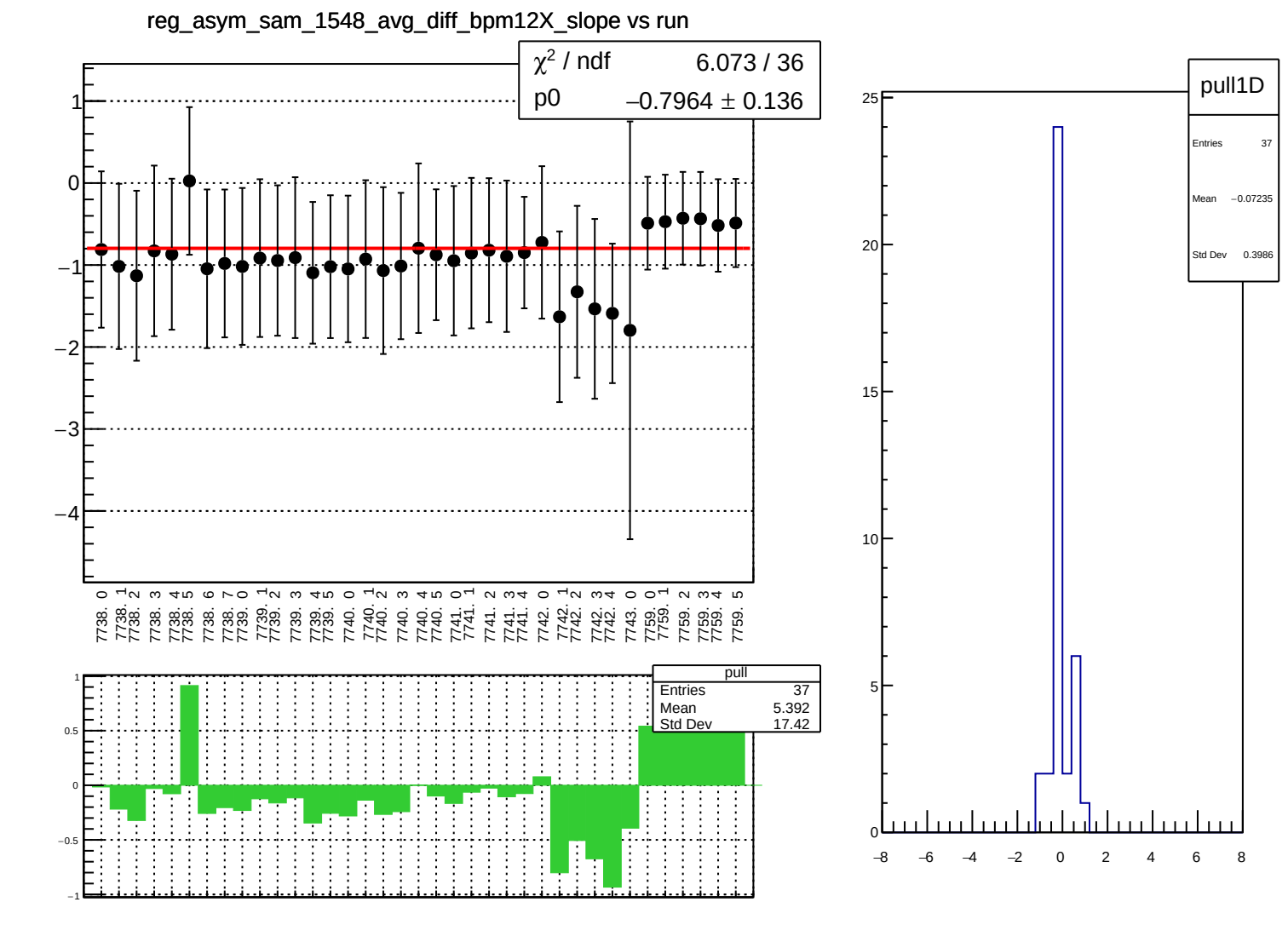

pull1D
Entries 37
Mean −0.1632
Std Dev 0.6188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

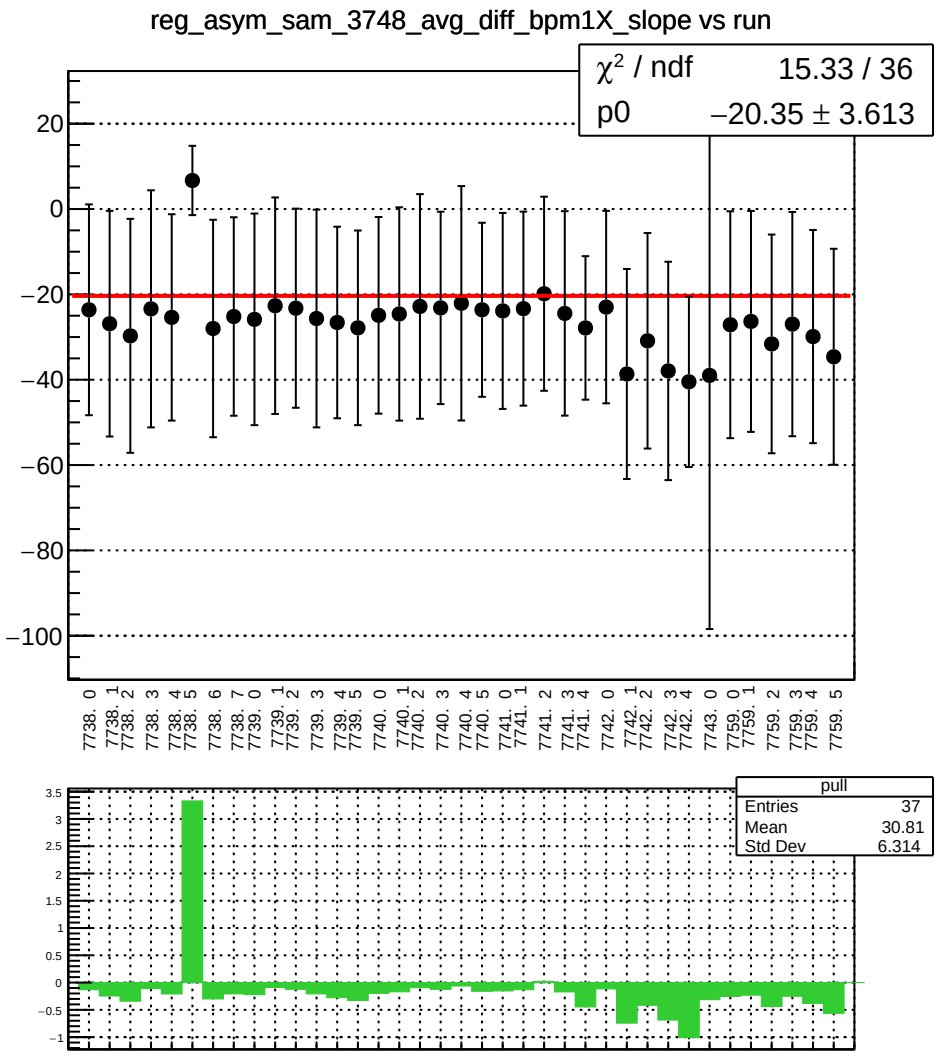

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.892 / 36
p0 31.04 ± 2.54
pull
Entries 37
Mean 133.1
Std Dev 112.9
pull1D
Entries 37
Mean 0.00764
Std Dev 0.226

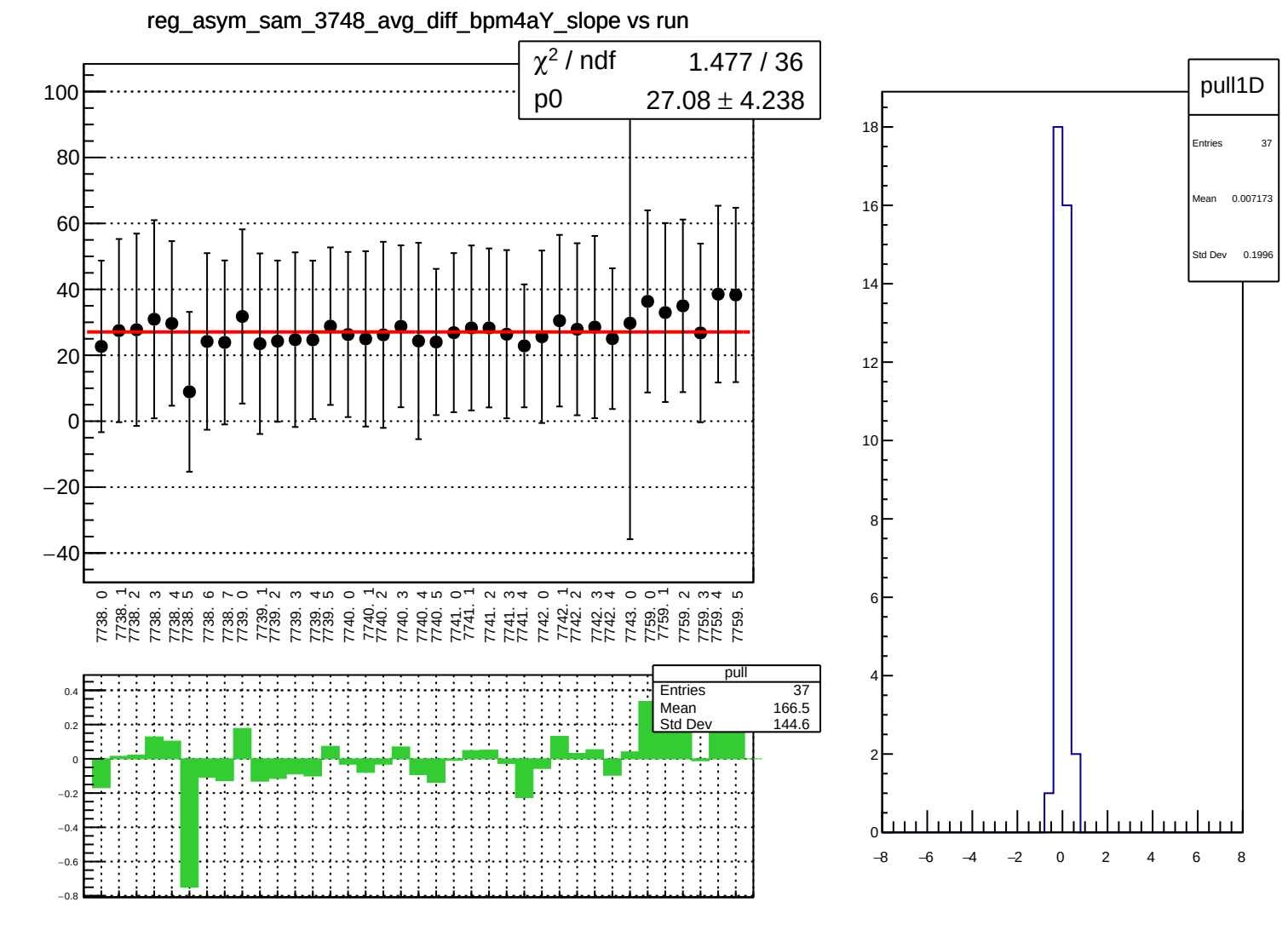

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.67 / 36
p0 −46.21 ± 2.16
0
−10
−20
−30
−40
−50
−60
−70
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 36.13
Std Dev 11.47
1
0
−1
−2
−3
−4

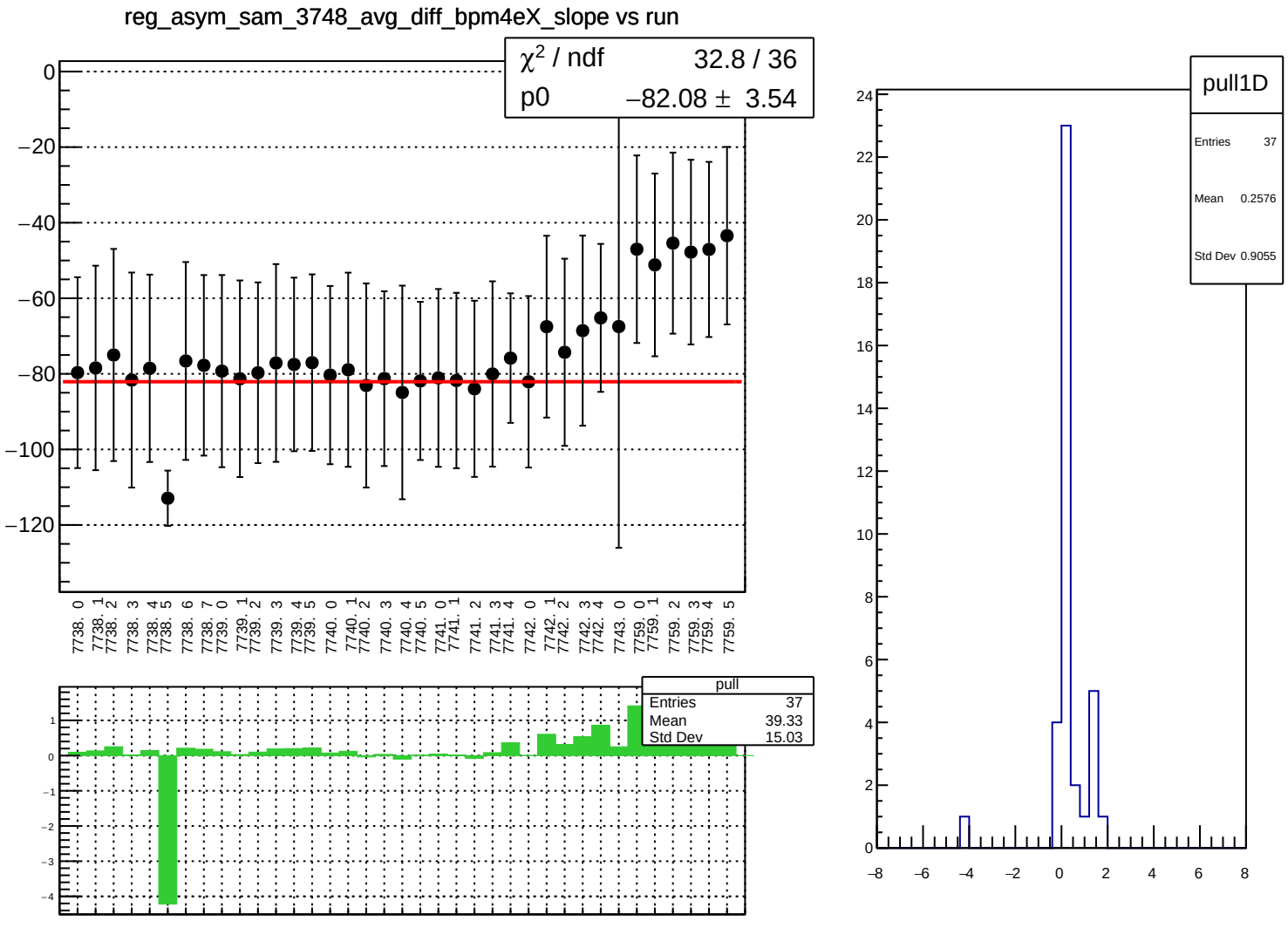

pull1D
Entries 37
Mean 0.2279
Std Dev 0.7842
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

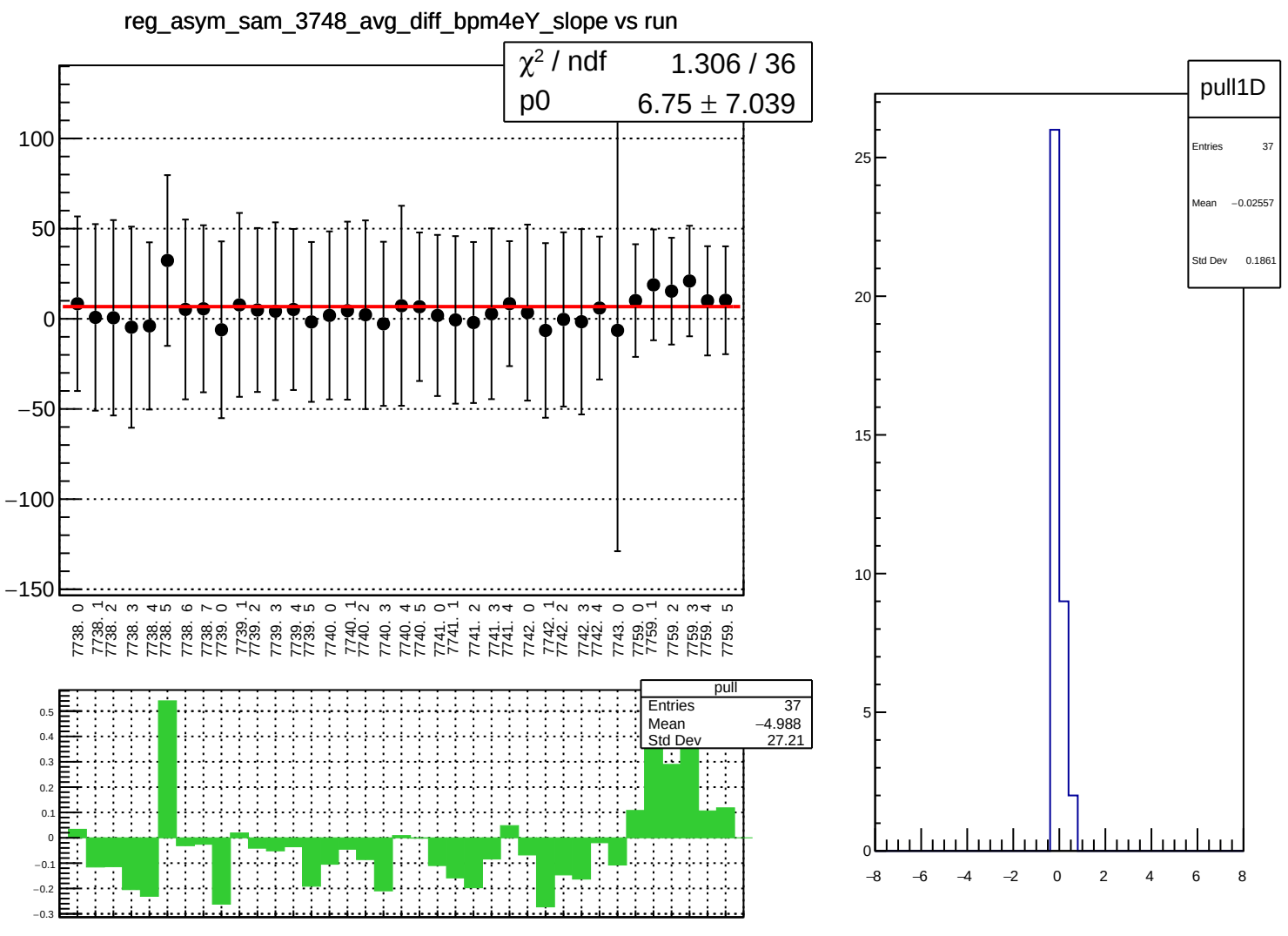

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.242 / 36
p0 17.89 ± 4.297
pull
Entries 37
Mean −26.45
Std Dev 48.65
pull1D
Entries 37
Mean −0.05473
Std Dev 0.439

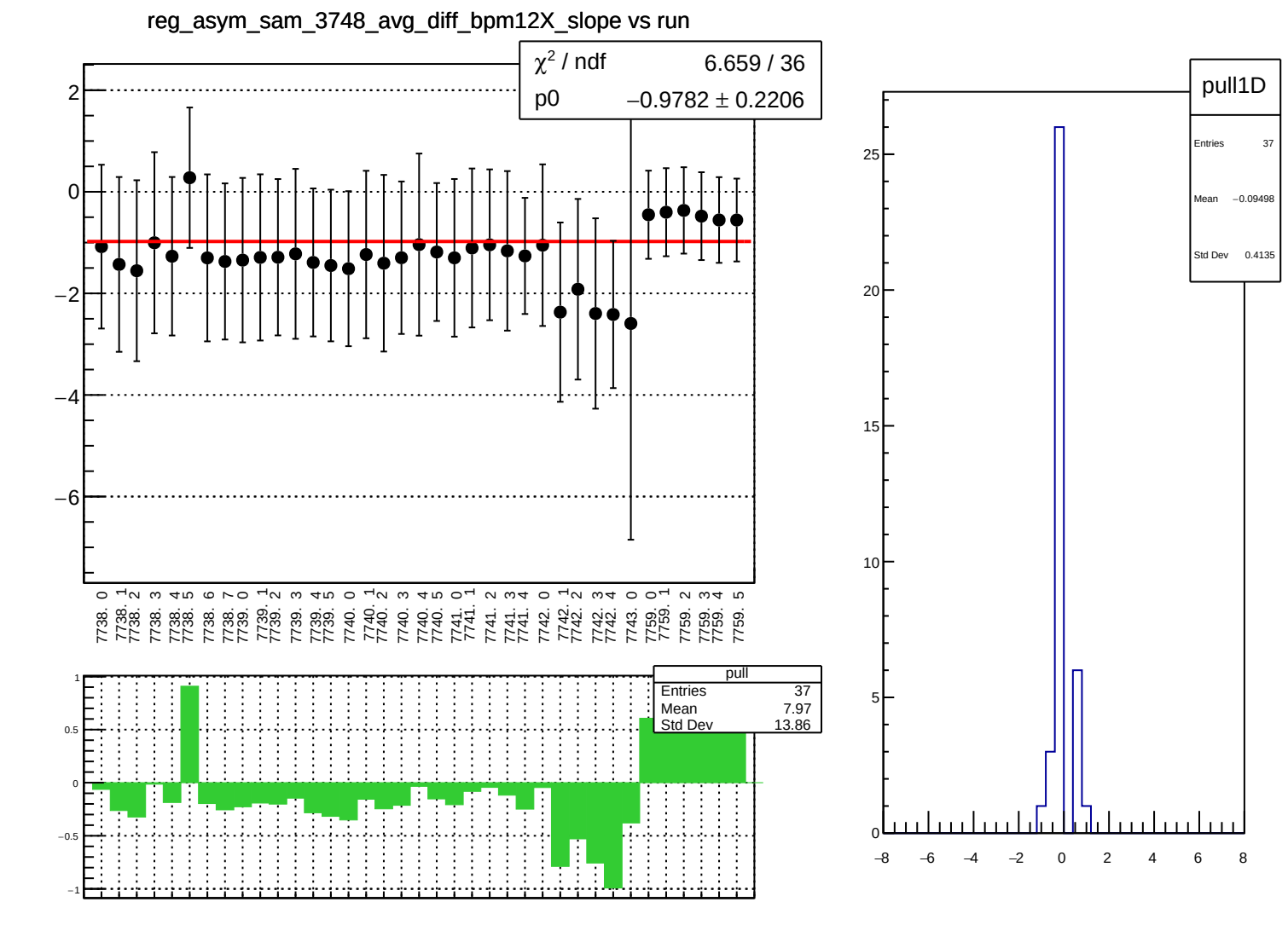

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.073 / 36
p0 −0.7964 ± 0.136
pull
Entries 37
Mean 5.392
Std Dev 17.42
pull1D
Entries 37
Mean −0.07235
Std Dev 0.3986

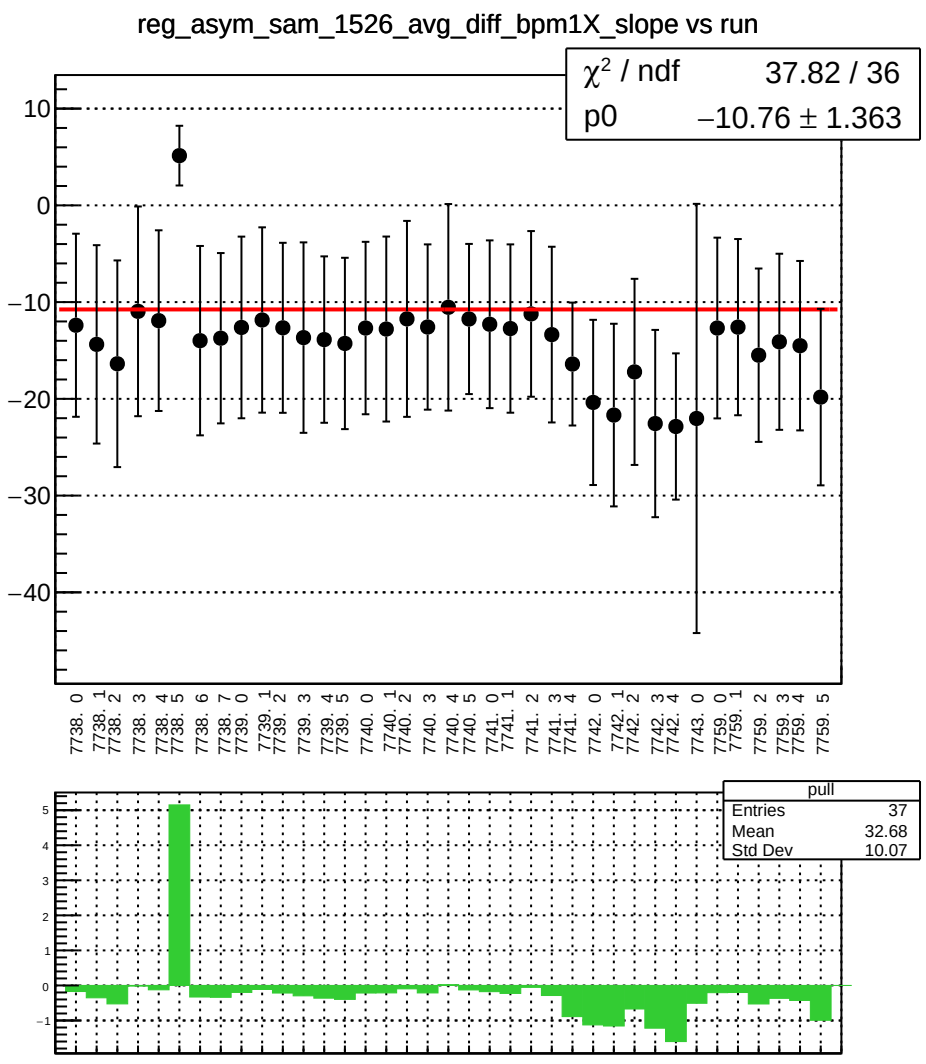

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 15.33 / 36
p0 −20.35 ± 3.613
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.81
Std Dev 6.314
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean −0.1773
Std Dev 0.6188
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

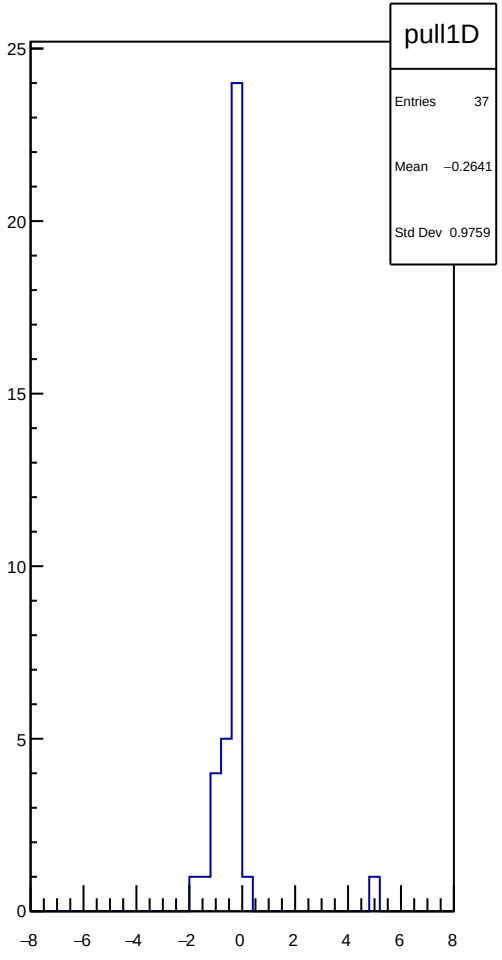

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.477 / 36
p0 27.08 ± 4.238
pull
Entries 37
Mean 166.5
Std Dev 144.6
pull1D
Entries 37
Mean 0.007173
Std Dev 0.1996

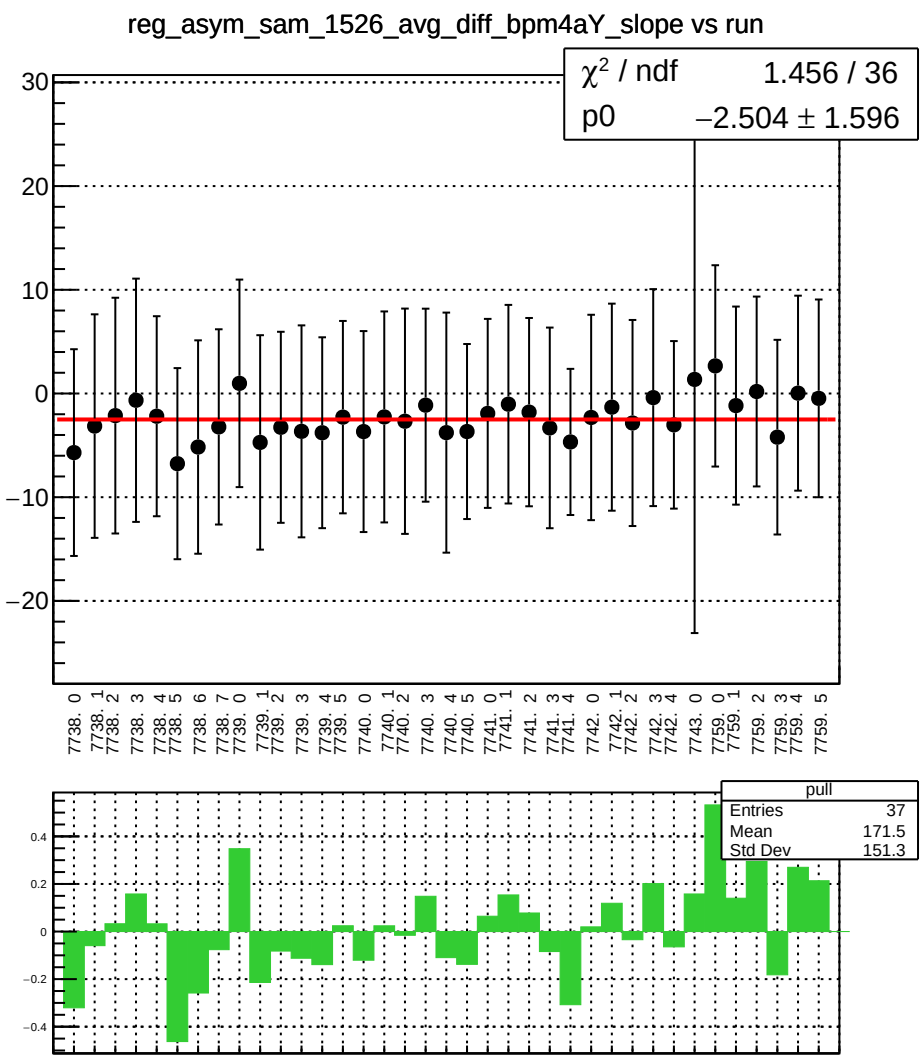

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.8 / 36
p0 −82.08 ± 3.54
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.33
Std Dev 15.03
1
0
−1
−2
−3
−4
pull1D
Entries 37
Mean 0.2576
Std Dev 0.9055
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

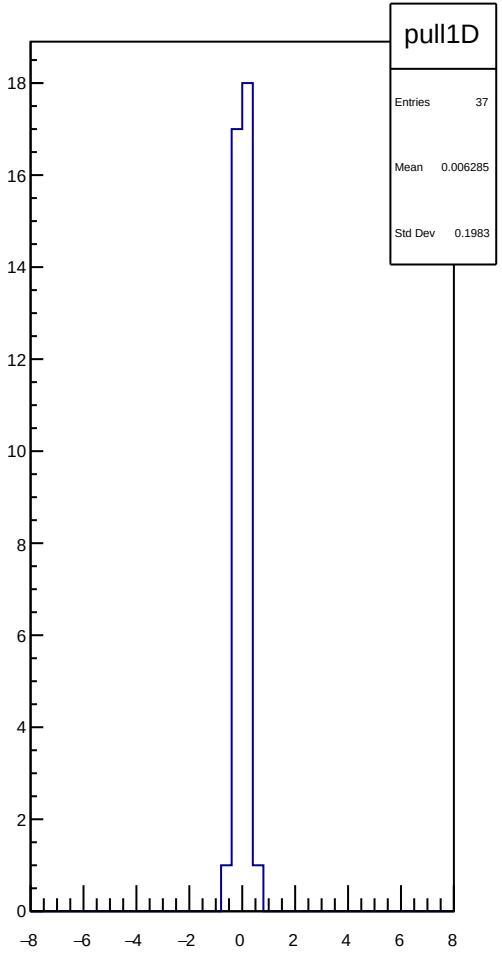

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.306 / 36
p0 6.75 ± 7.039
pull
Entries 37
Mean −4.988
Std Dev 27.21
pull1D
Entries 37
Mean −0.02557
Std Dev 0.1861

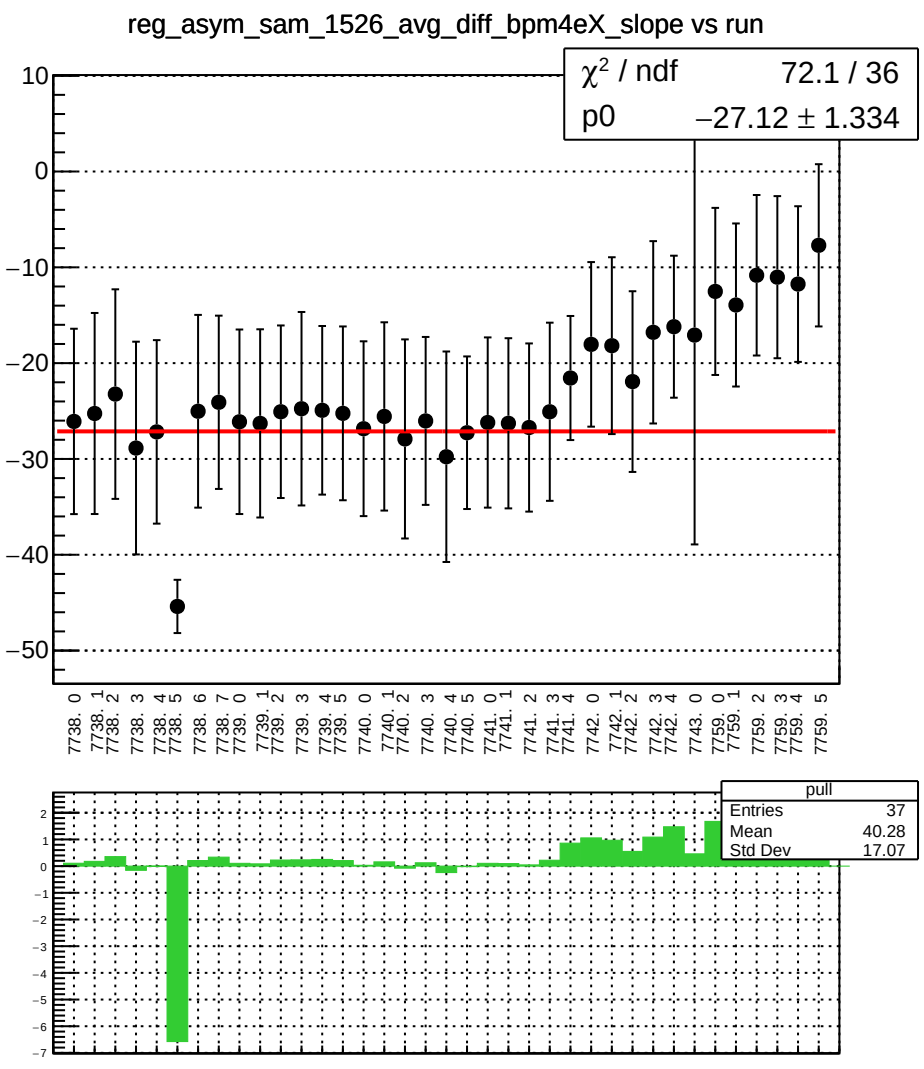

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 6.659 / 36
p0 −0.9782 ± 0.2206
pull
Entries 37
Mean 7.97
Std Dev 13.86
pull1D
Entries 37
Mean −0.09498
Std Dev 0.4135

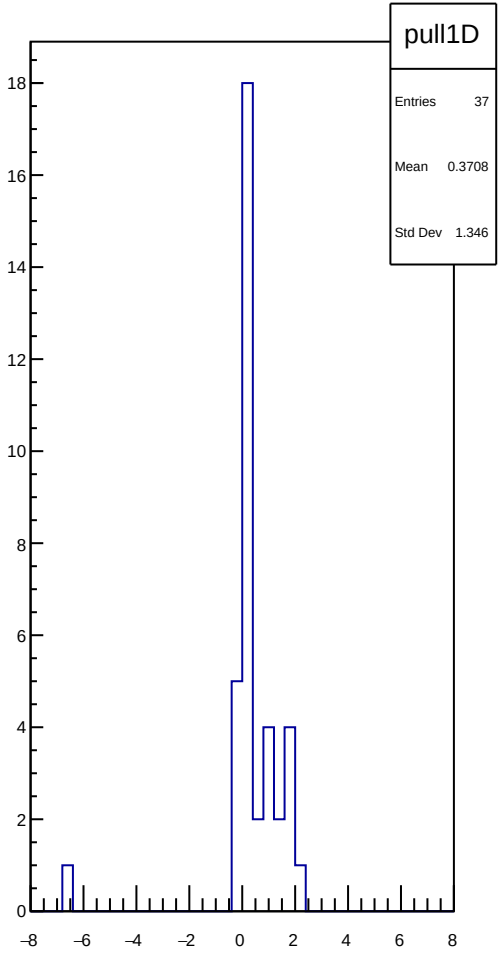

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 37.82 / 36
p0 −10.76 ± 1.363
pull
Entries 37
Mean 32.68
Std Dev 10.07

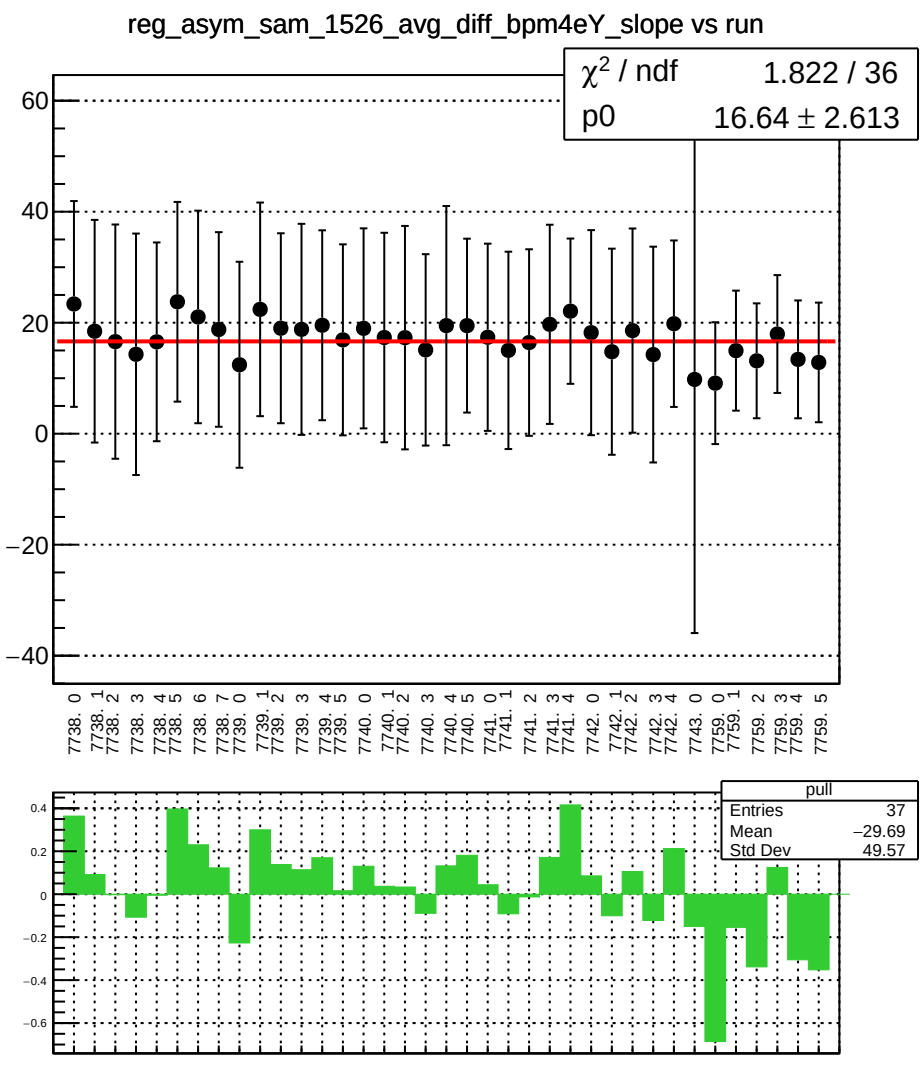

pull1D
Entries 37
Mean −0.2641
Std Dev 0.9759

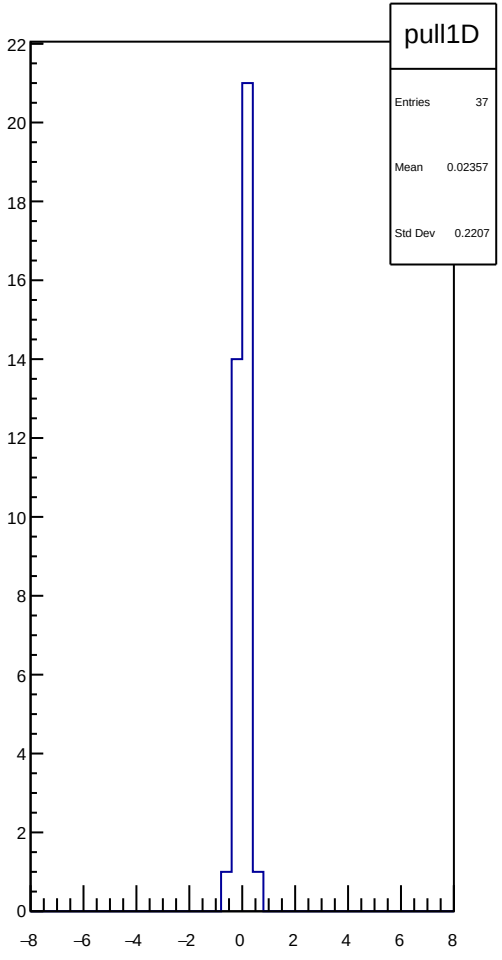

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.456 / 36
p0 −2.504 ± 1.596
pull
Entries 37
Mean 171.5
Std Dev 151.3

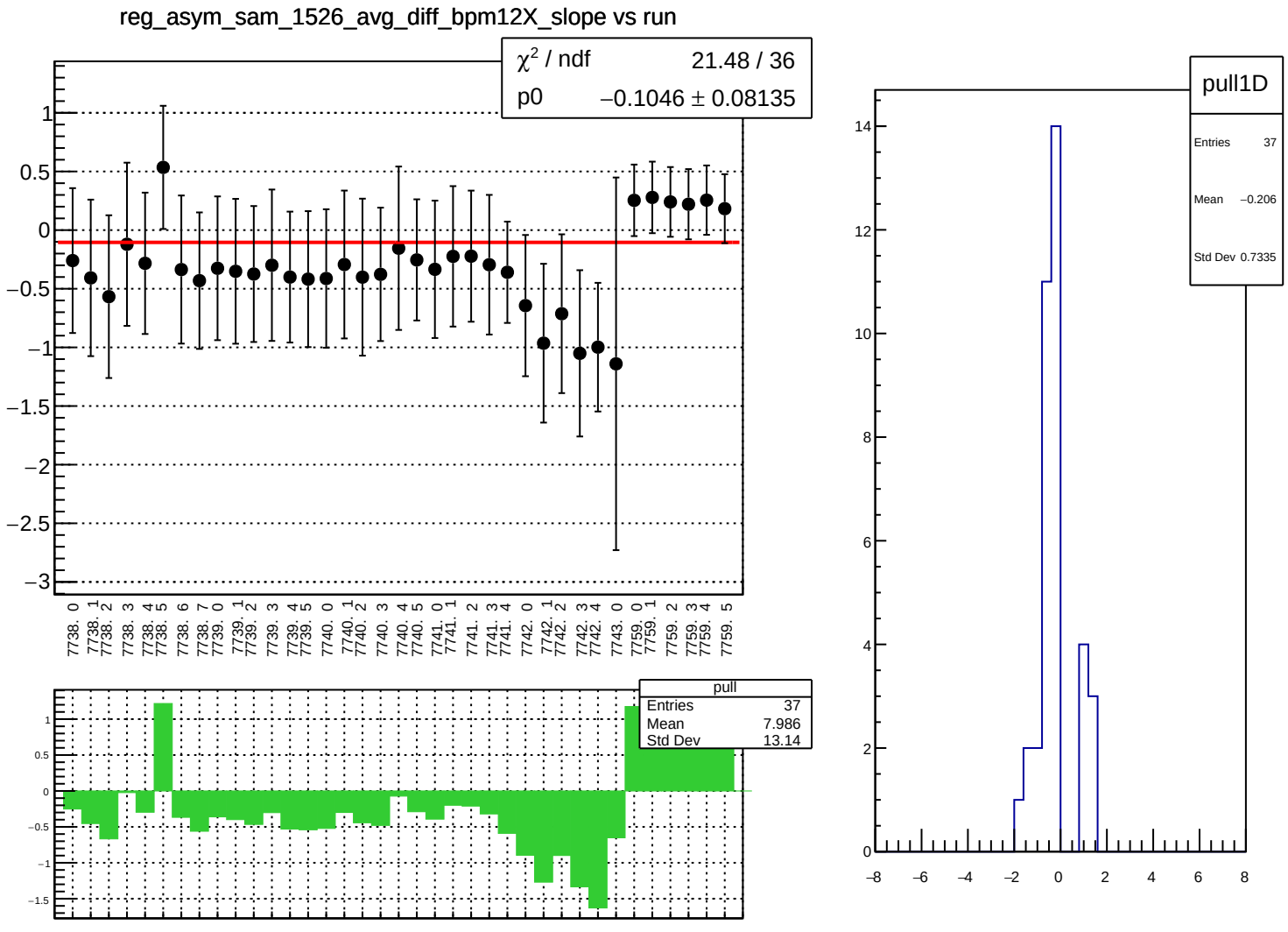

pull1D
Entries 37
Mean 0.006285
Std Dev 0.1983

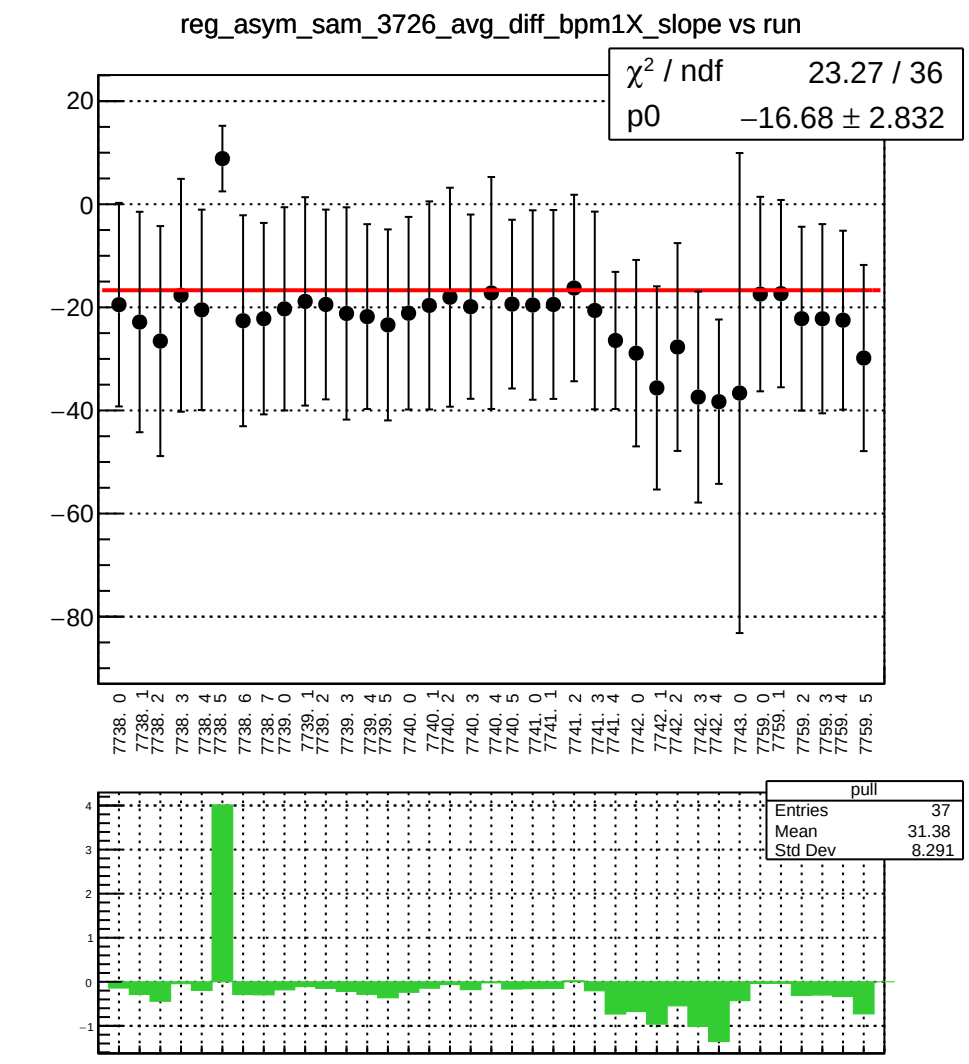

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 72.1 / 36
p0 −27.12 ± 1.334
pull
Entries 37
Mean 40.28
Std Dev 17.07

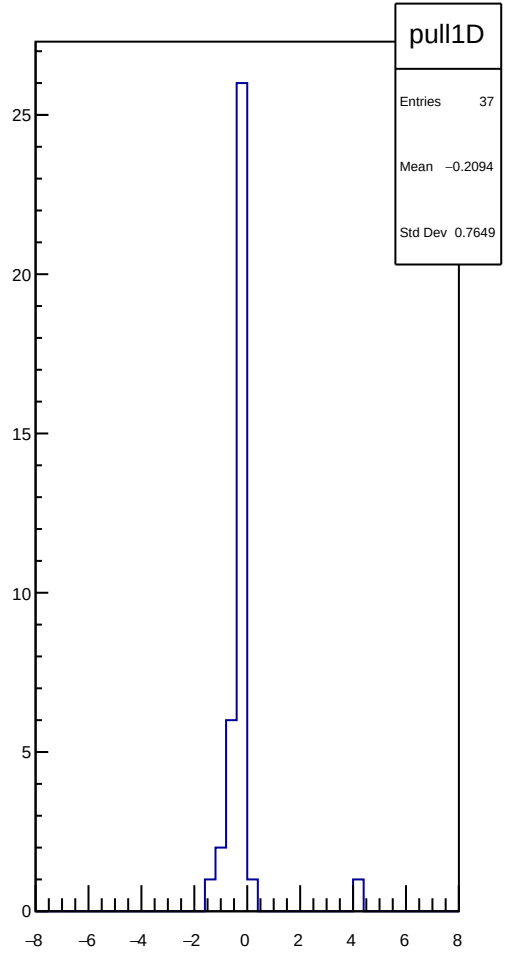

pull1D
Entries 37
Mean 0.3708
Std Dev 1.346

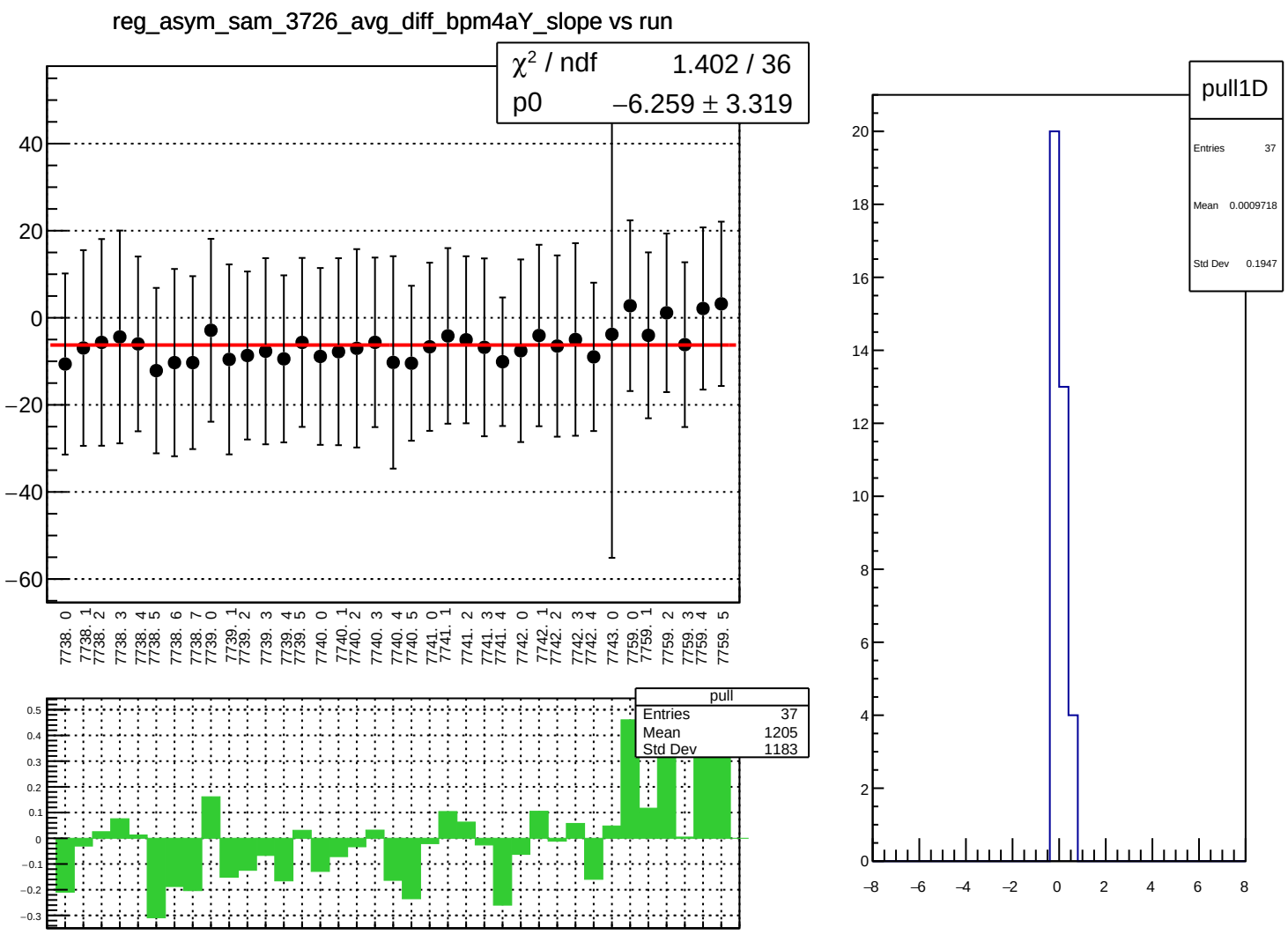

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.822 / 36
p0 16.64 ± 2.613
60
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −29.69
Std Dev 49.57
0.4
0.2
0
−0.2
−0.4
−0.6

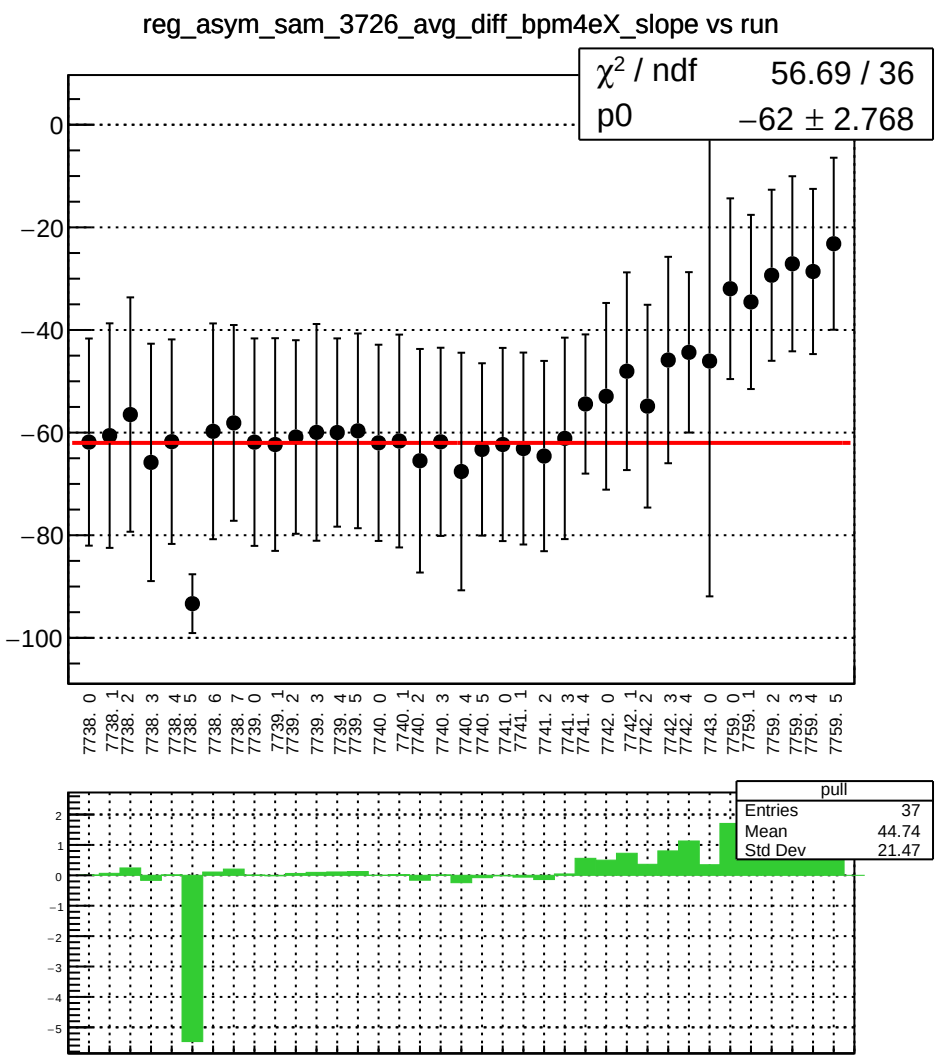

pull1D
Entries 37
Mean 0.02357
Std Dev 0.2207
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

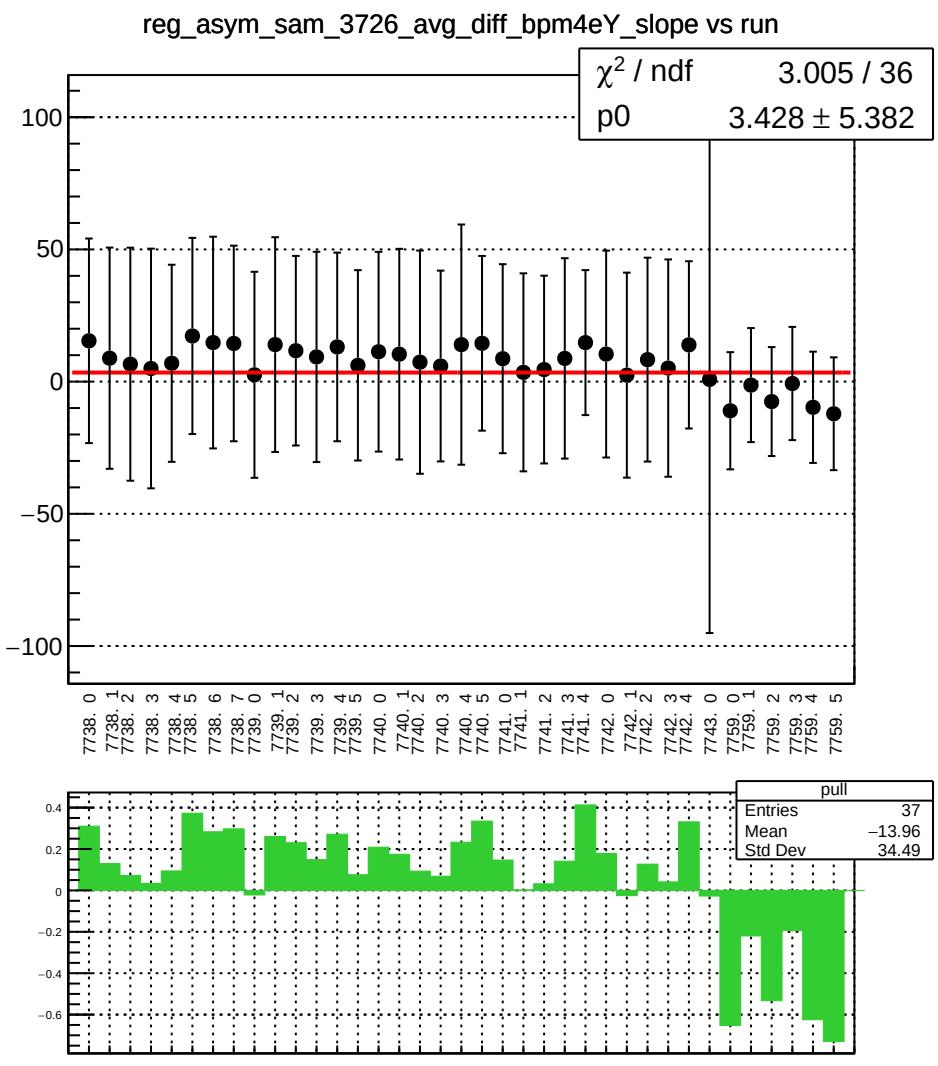

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 21.48 / 36
p0 −0.1046 ± 0.08135
pull
Entries 37
Mean 7.986
Std Dev 13.14
pull1D
Entries 37
Mean −0.206
Std Dev 0.7335

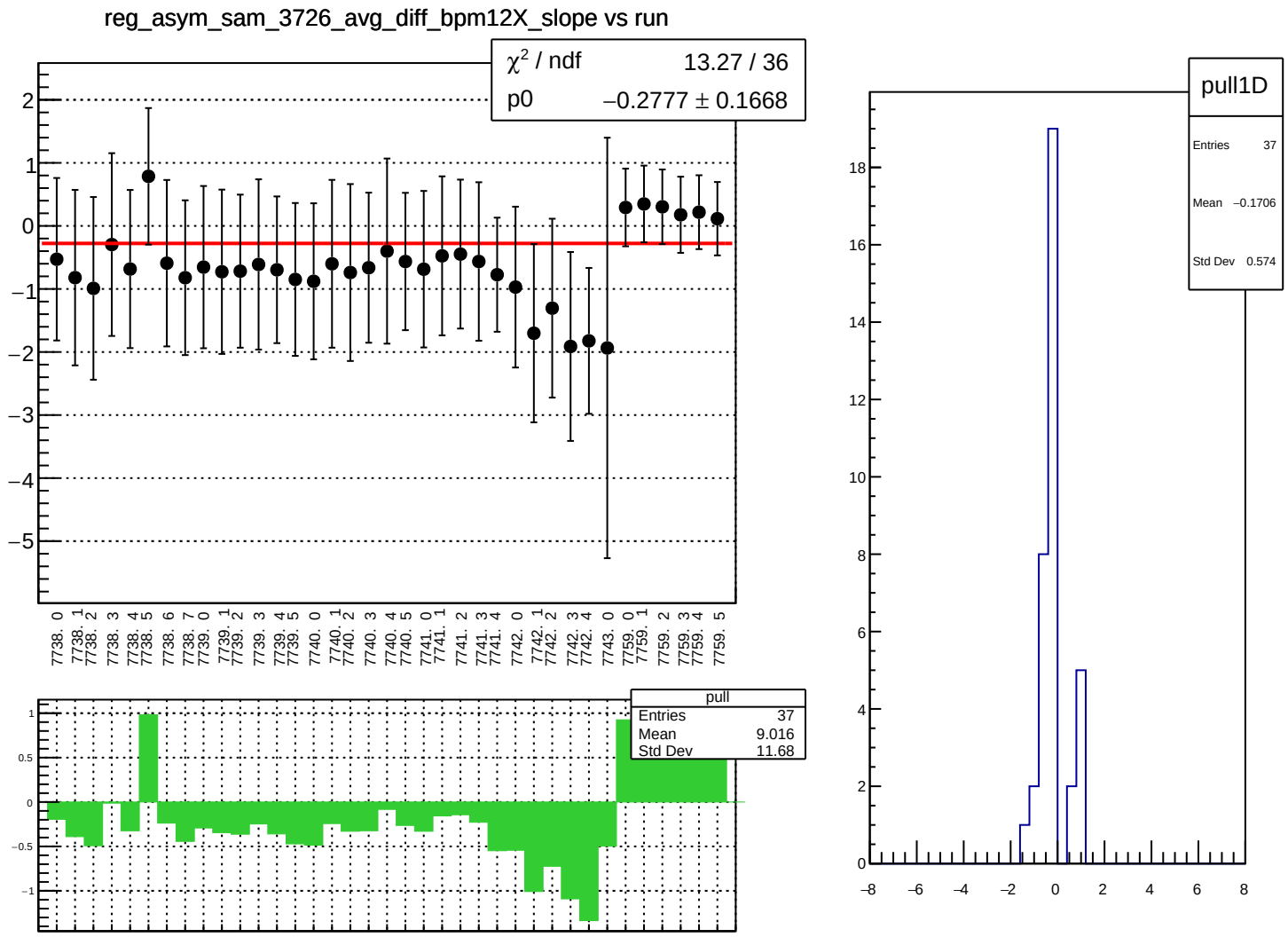

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 23.27 / 36
p0 −16.68 ± 2.832
pull
Entries 37
Mean 31.38
Std Dev 8.291

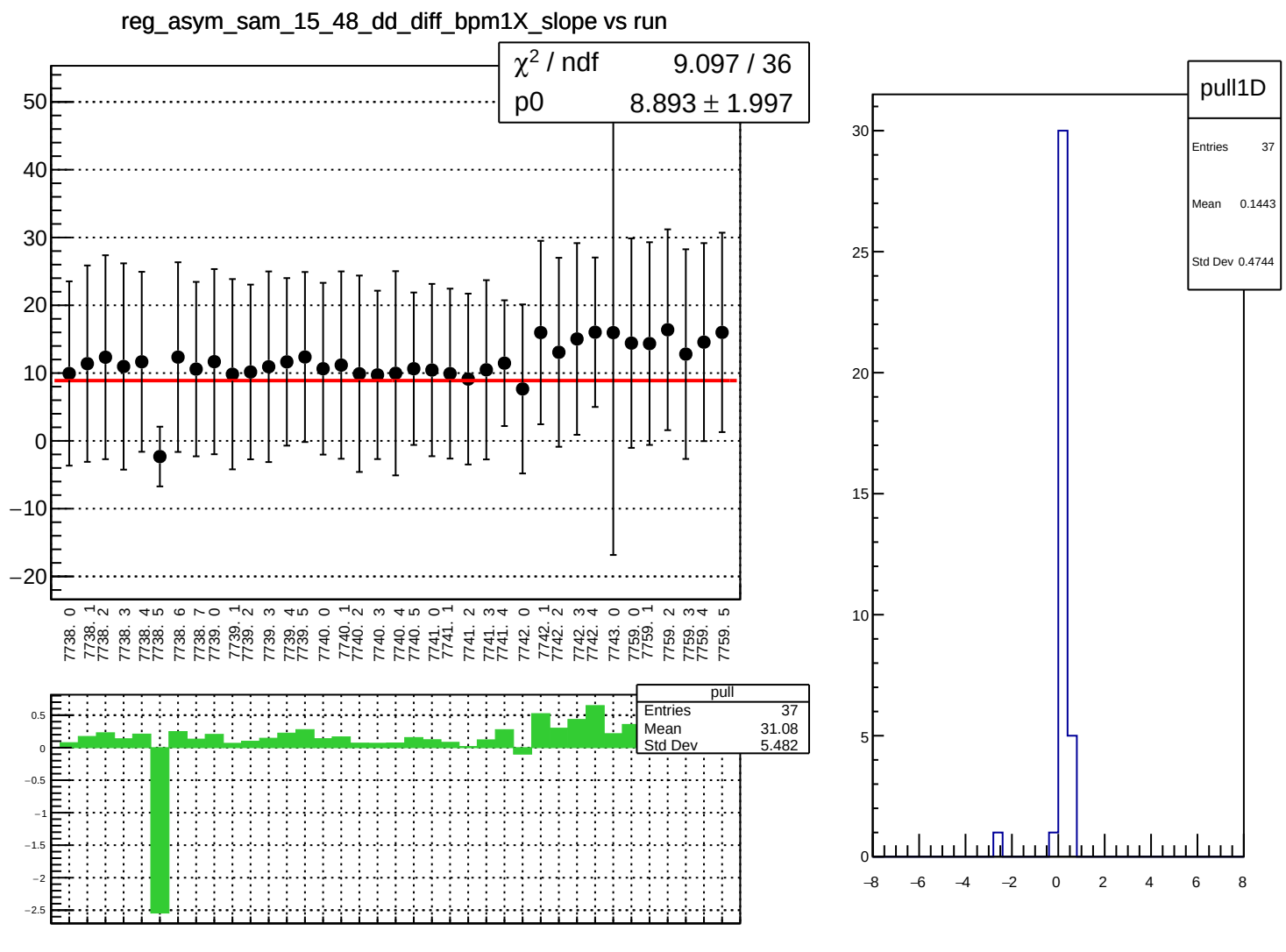

pull1D
Entries 37
Mean −0.2094
Std Dev 0.7649

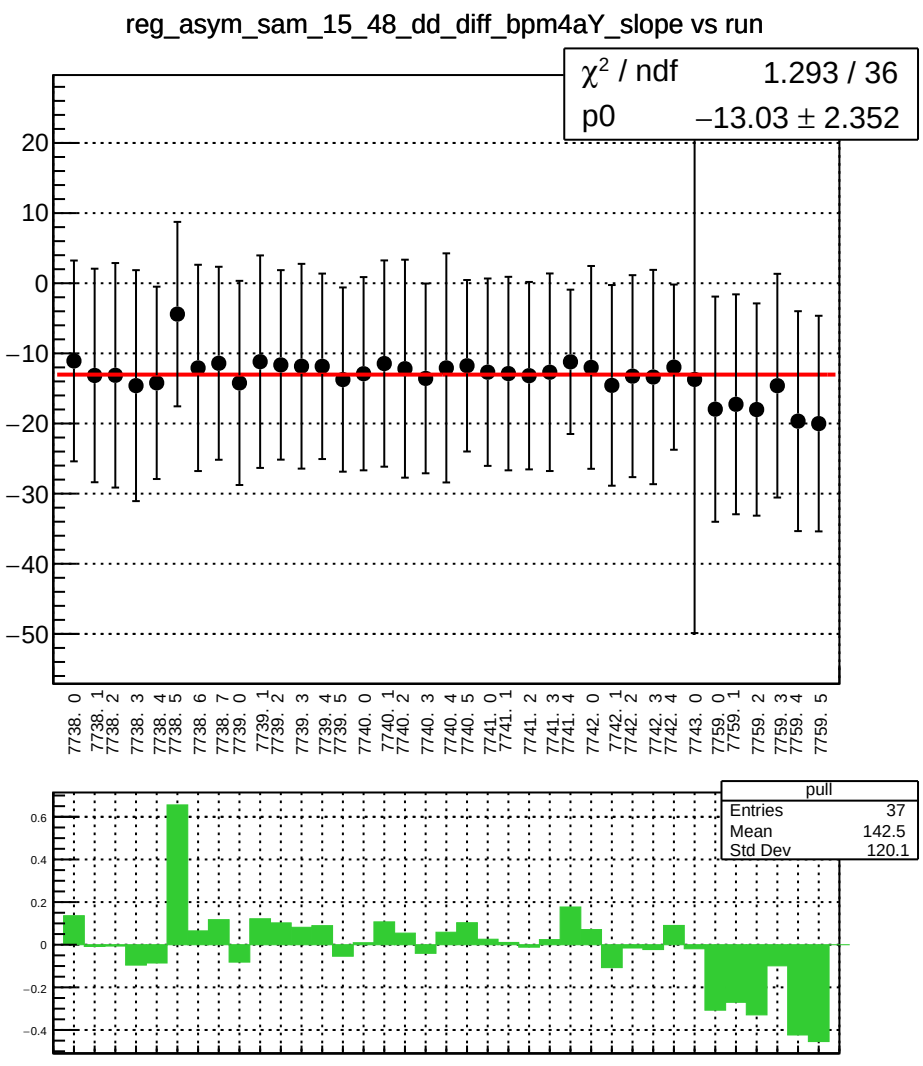

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.402 / 36
p0 −6.259 ± 3.319
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 1205
Std Dev 1183
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 37
Mean 0.0009718
Std Dev 0.1947
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

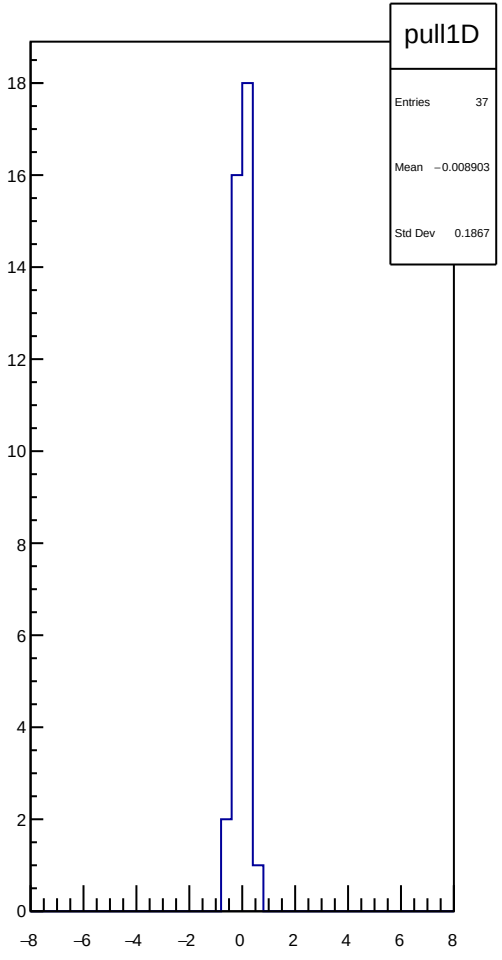

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.69 / 36
p0 −62 ± 2.768
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 44.74
Std Dev 21.47
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 37
Mean 0.2951
Std Dev 1.202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

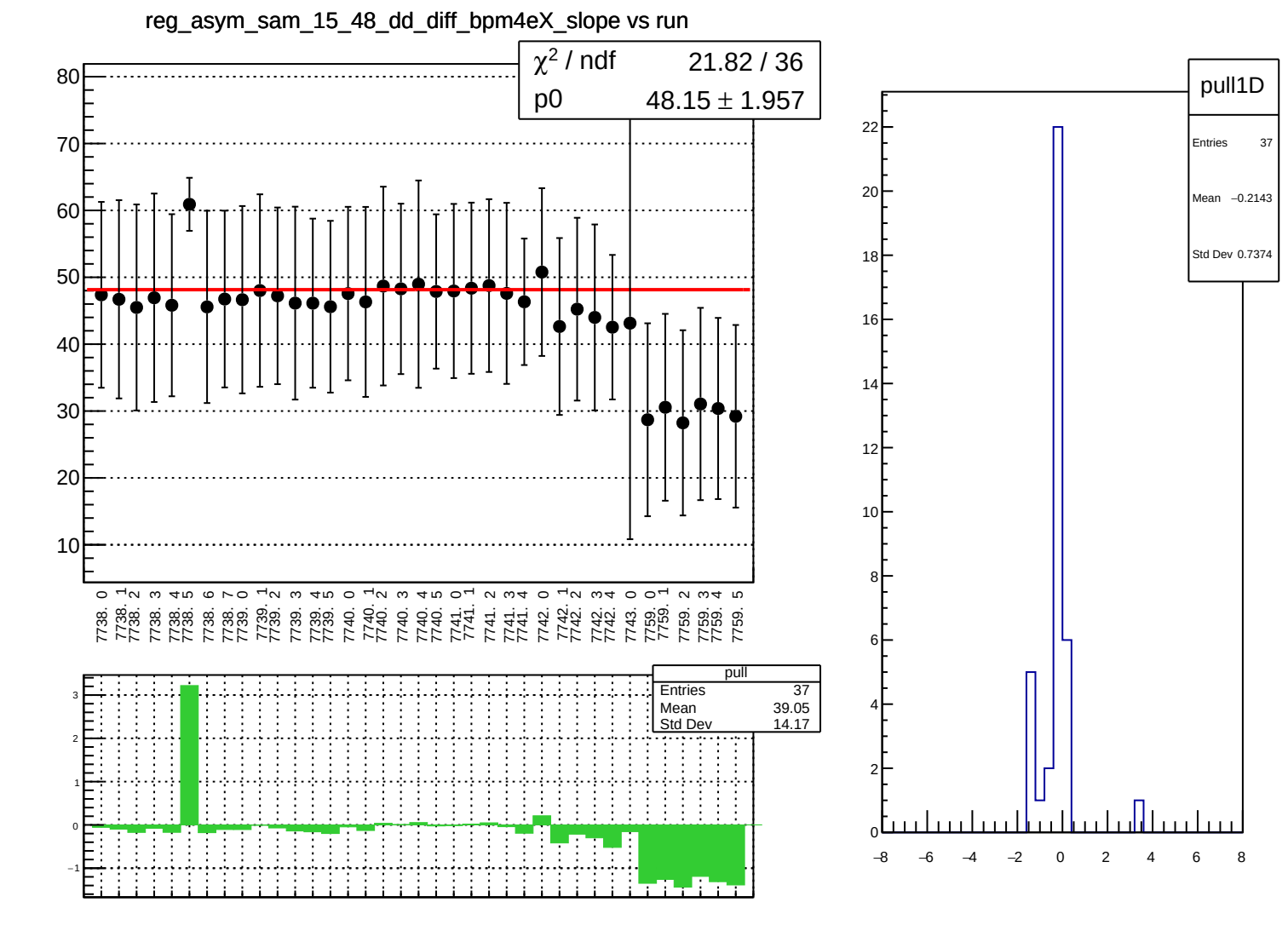

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.005 / 36
p0 3.428 ± 5.382
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −13.96
Std Dev 34.49
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.05615
Std Dev 0.2794
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

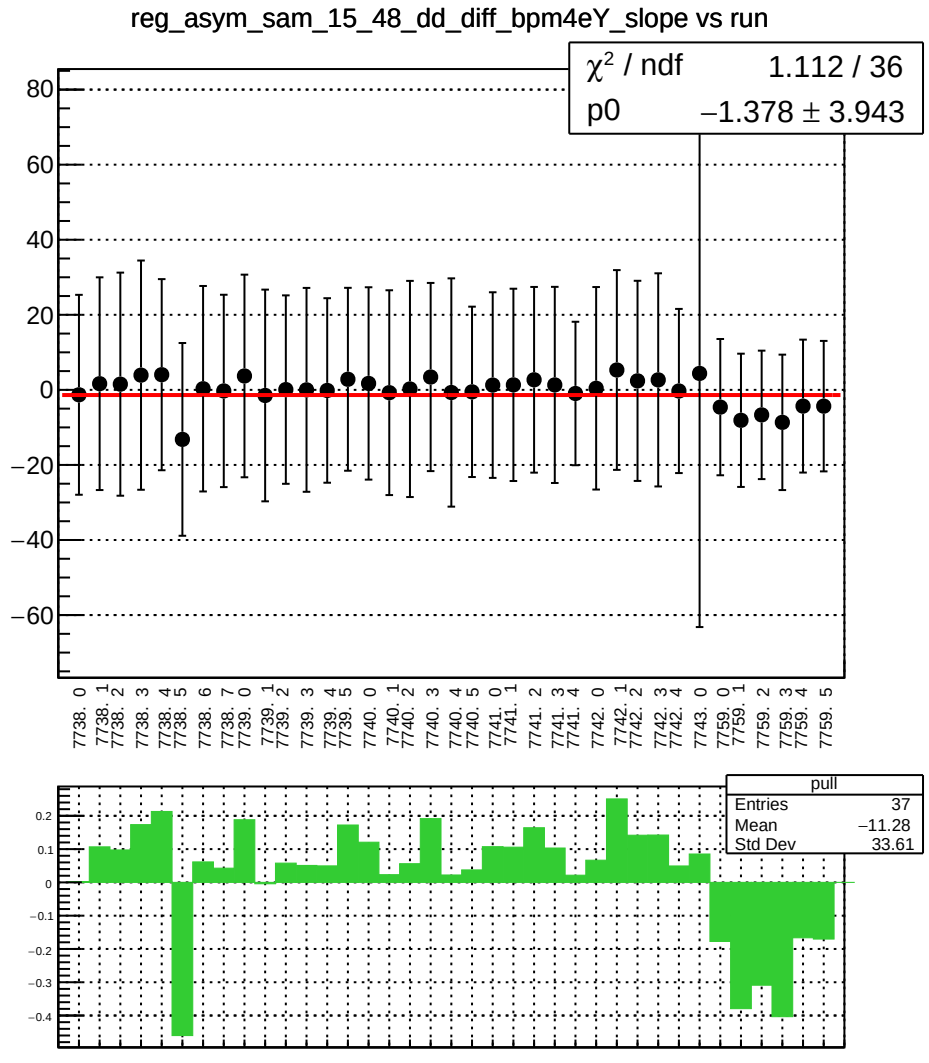

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 13.27 / 36
p0 −0.2777 ± 0.1668
pull
Entries 37
Mean 9.016
Std Dev 11.68
pull1D
Entries 37
Mean −0.1706
Std Dev 0.574

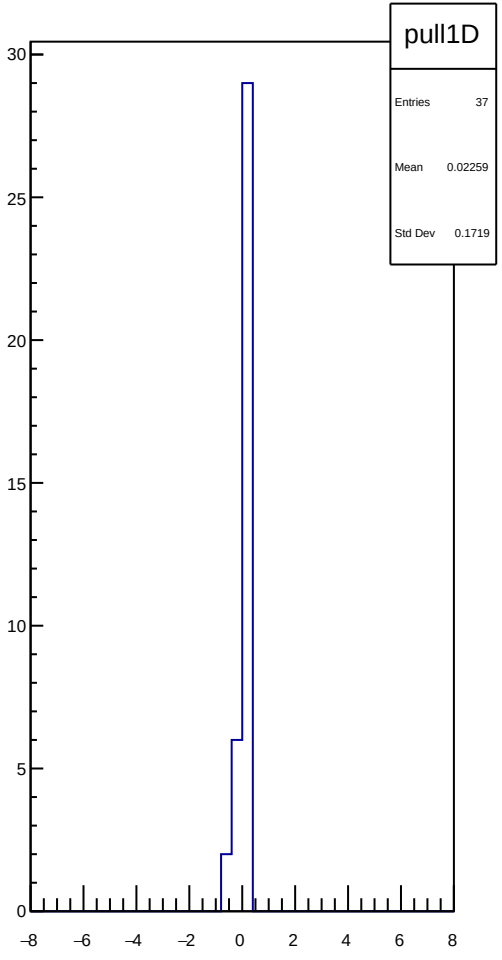

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.097 / 36
p0 8.893 ± 1.997
pull
Entries 37
Mean 31.08
Std Dev 5.482
pull1D
Entries 37
Mean 0.1443
Std Dev 0.4744

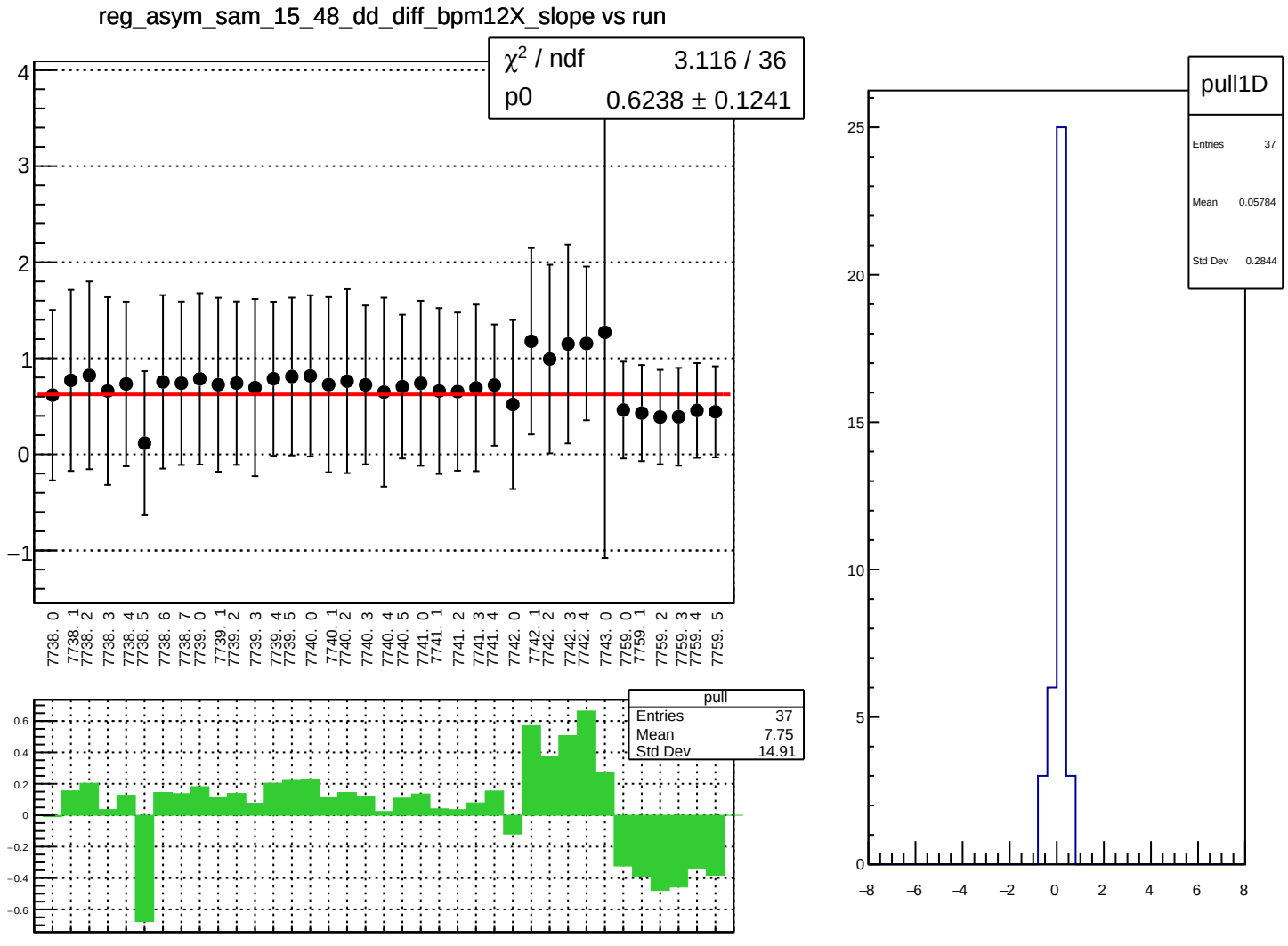

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.293 / 36
p0 −13.03 ± 2.352
pull
Entries 37
Mean 142.5
Std Dev 120.1

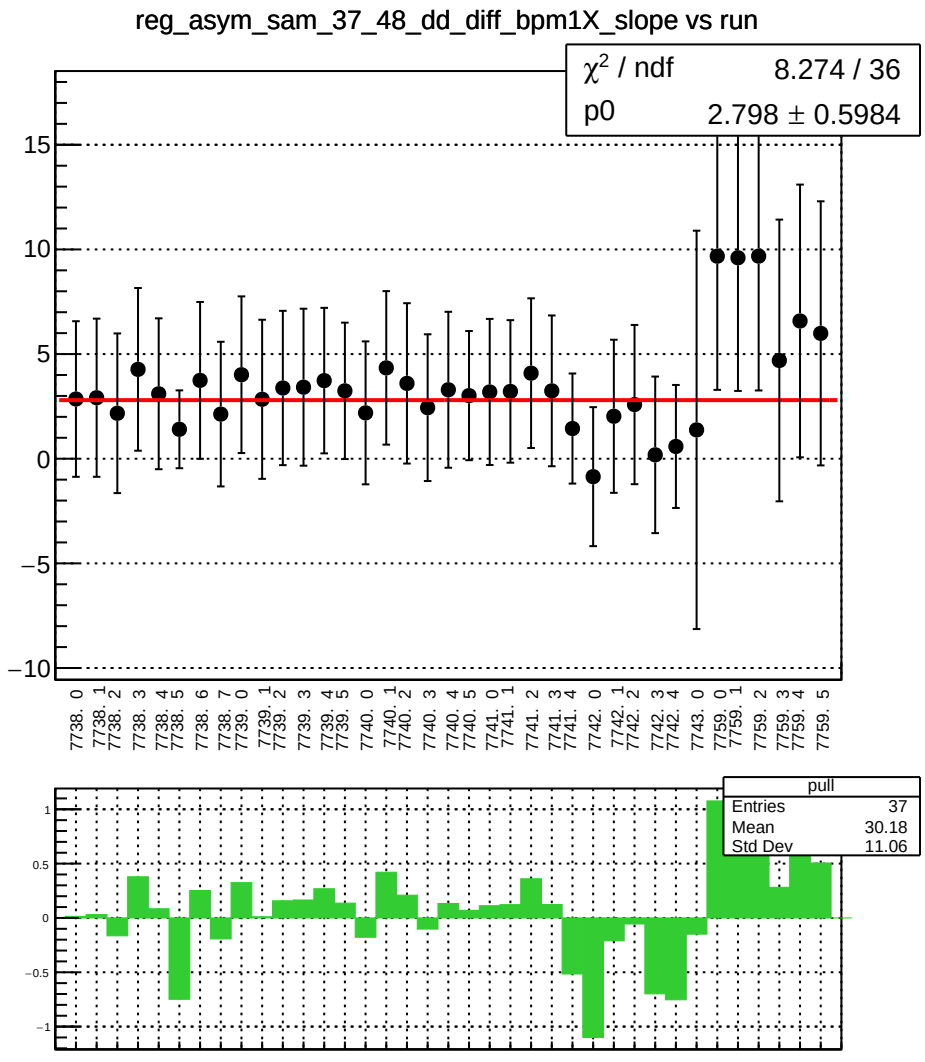

pull1D
Entries 37
Mean −0.008903
Std Dev 0.1867

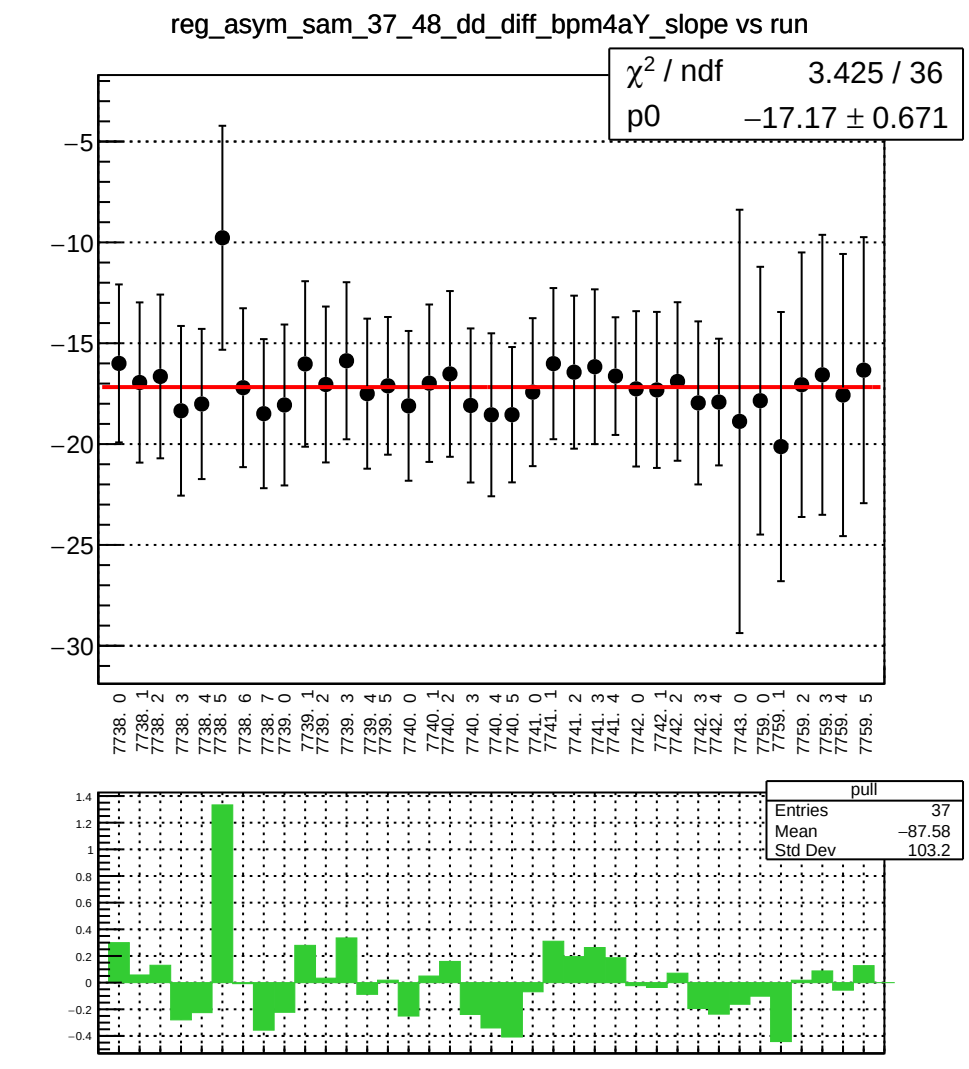

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.82 / 36
p0 48.15 ± 1.957
80
70
60
50
40
30
20
10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.05
Std Dev 14.17
3
2
1
0
−1
pull1D
Entries 37
Mean −0.2143
Std Dev 0.7374
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

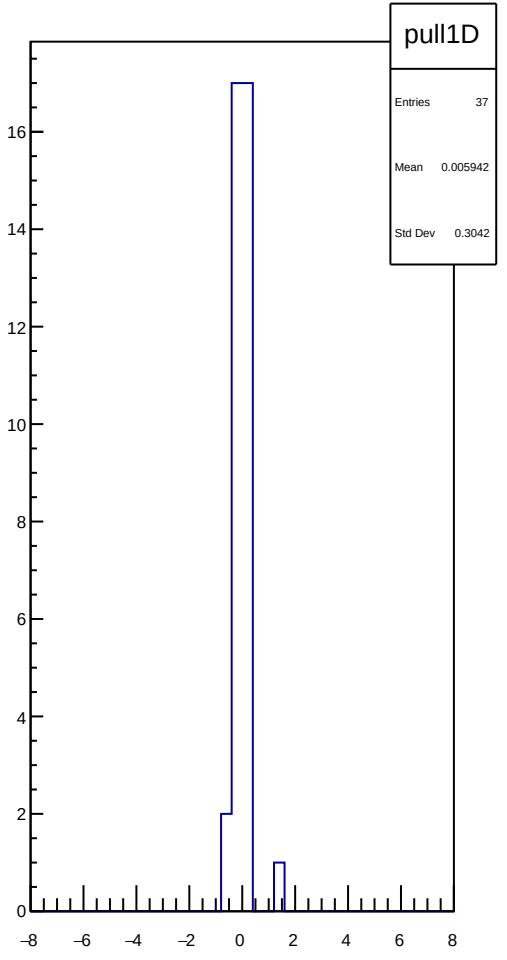

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.112 / 36
p0 −1.378 ± 3.943
pull
Entries 37
Mean −11.28
Std Dev 33.61

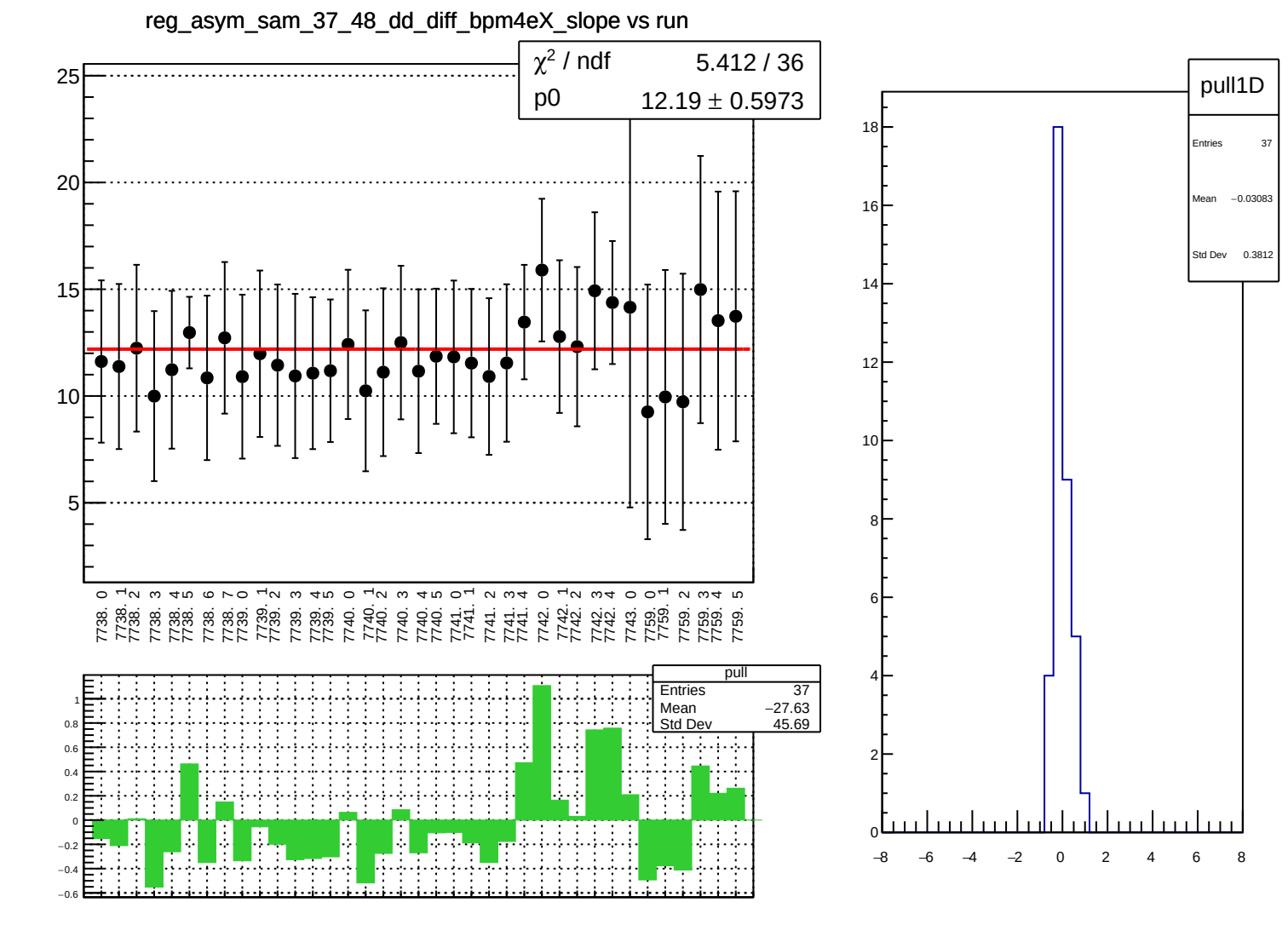

pull1D
Entries 37
Mean 0.02259
Std Dev 0.1719

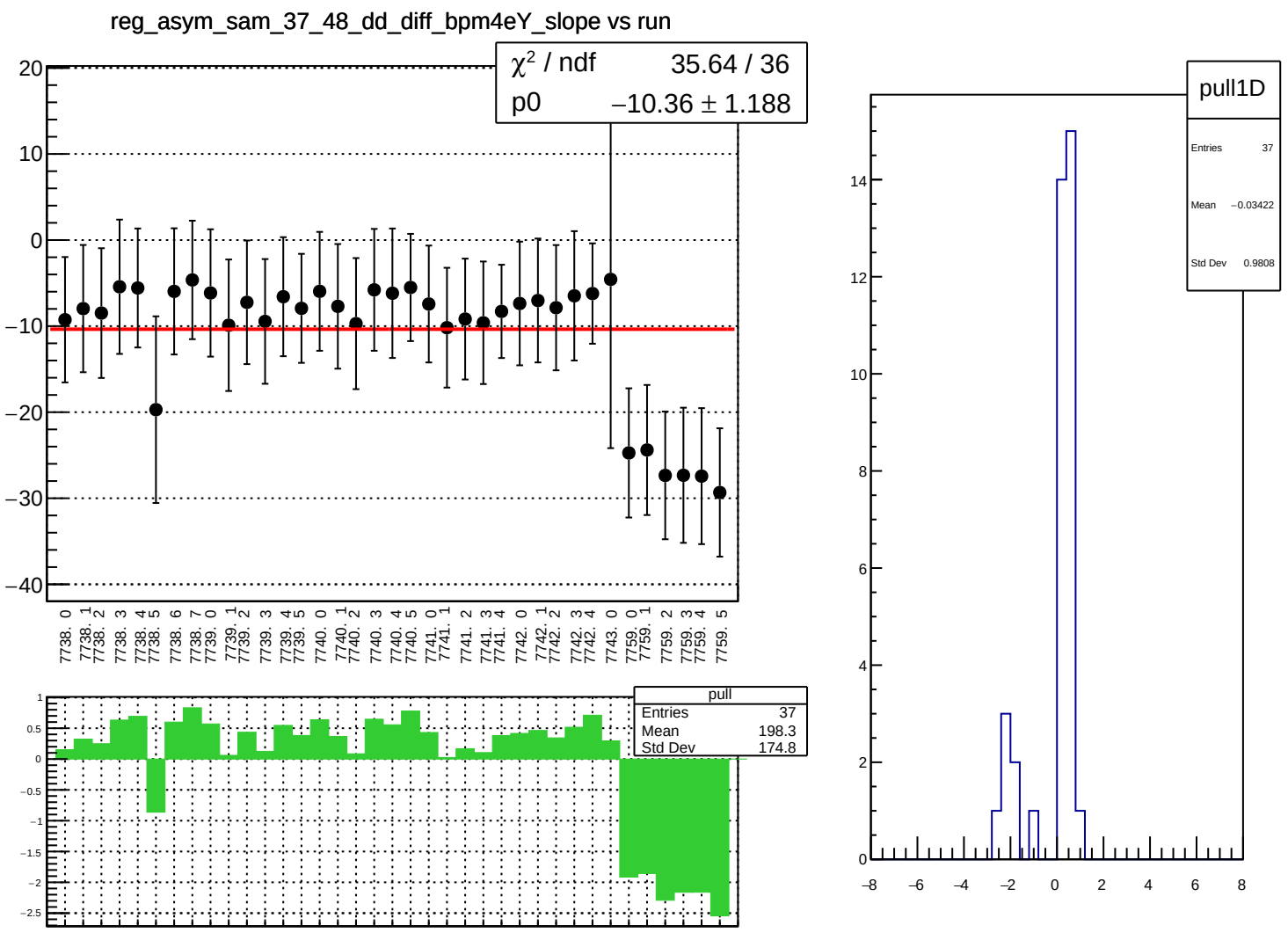

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.116 / 36
p0 0.6238 ± 0.1241
pull
Entries 37
Mean 7.75
Std Dev 14.91
pull1D
Entries 37
Mean 0.05784
Std Dev 0.2844

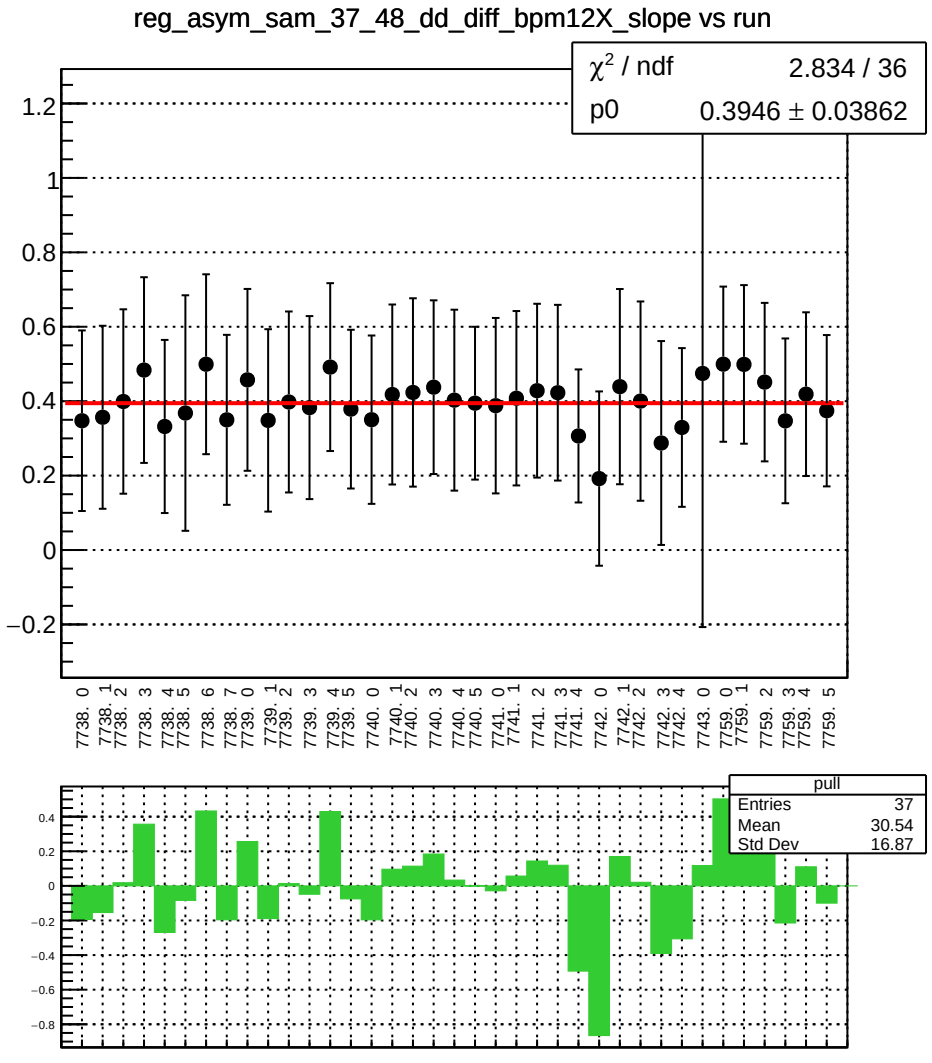

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.274 / 36
p0 2.798 ± 0.5984
15
10
5
0
−5
−10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.18
Std Dev 11.06
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.08355
Std Dev 0.4654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

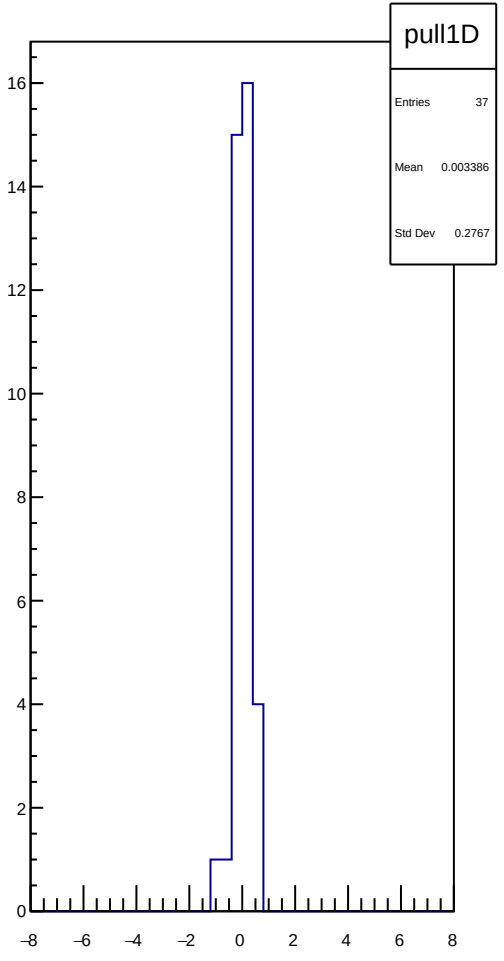

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.425 / 36
p0 −17.17 ± 0.671
−5
−10
−15
−20
−25
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −87.58
Std Dev 103.2
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

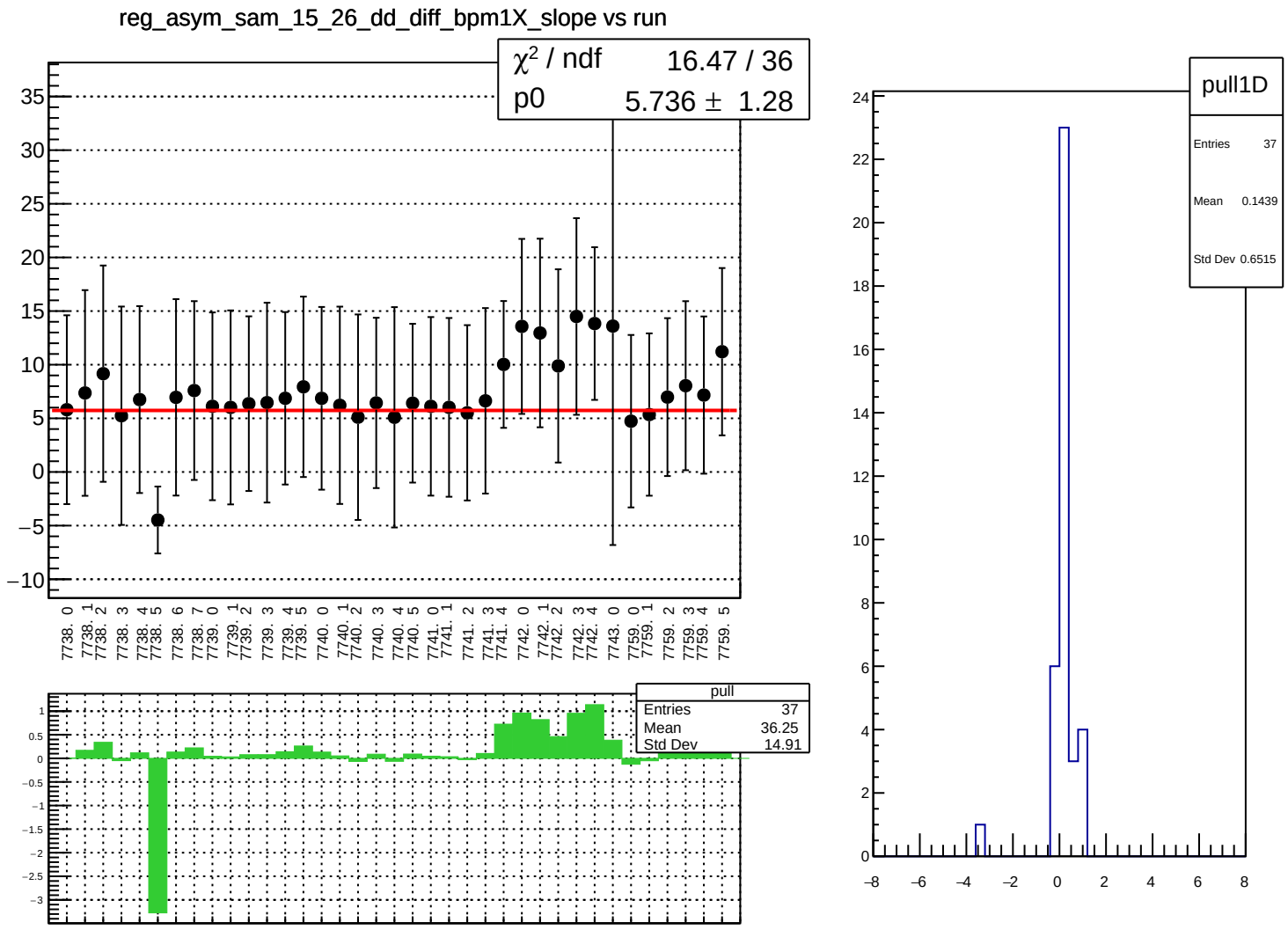

pull1D
Entries 37
Mean 0.005942
Std Dev 0.3042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

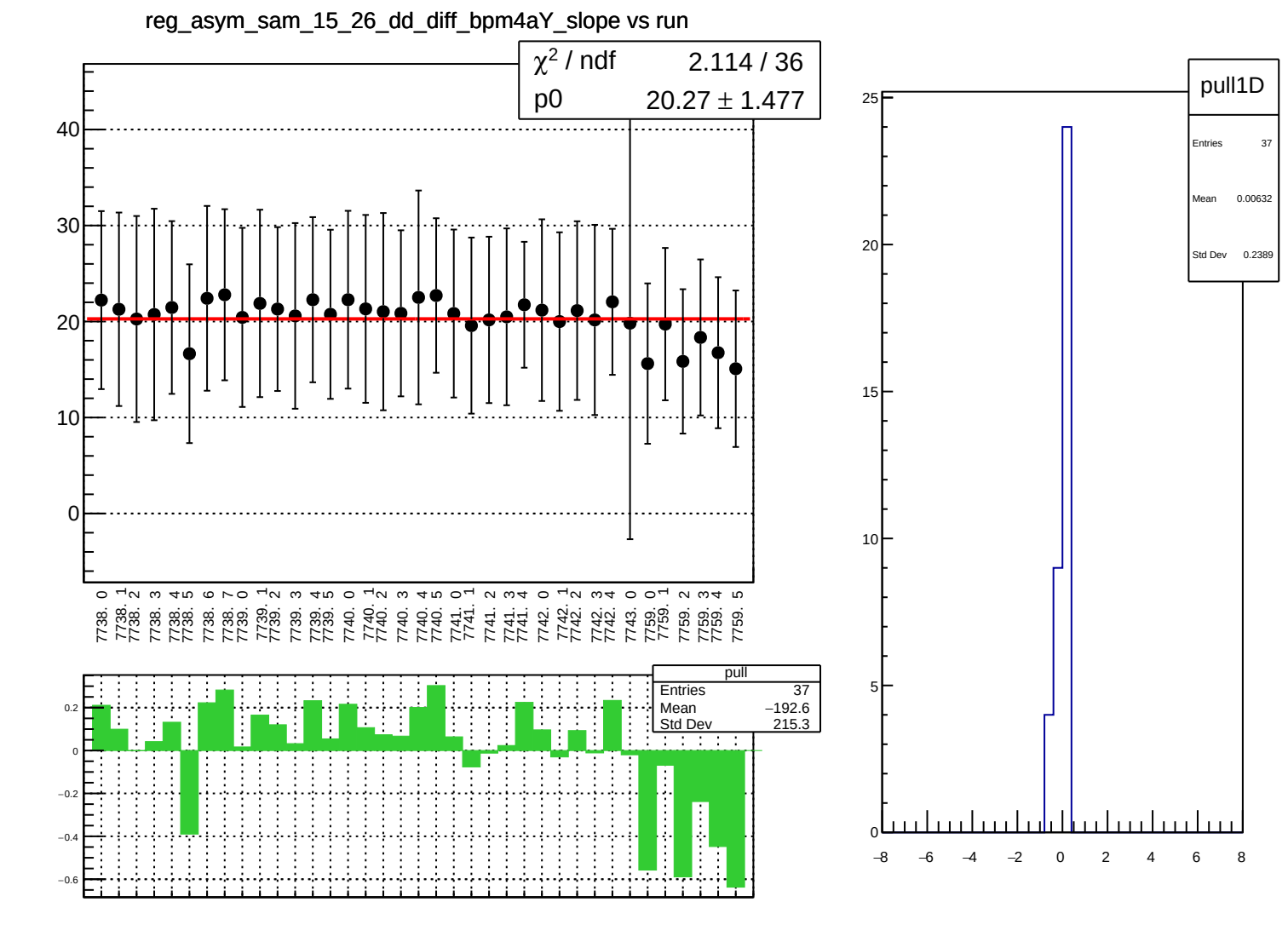

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.412 / 36
p0 12.19 ± 0.5973
pull
Entries 37
Mean −27.63
Std Dev 45.69
pull1D
Entries 37
Mean −0.03083
Std Dev 0.3812

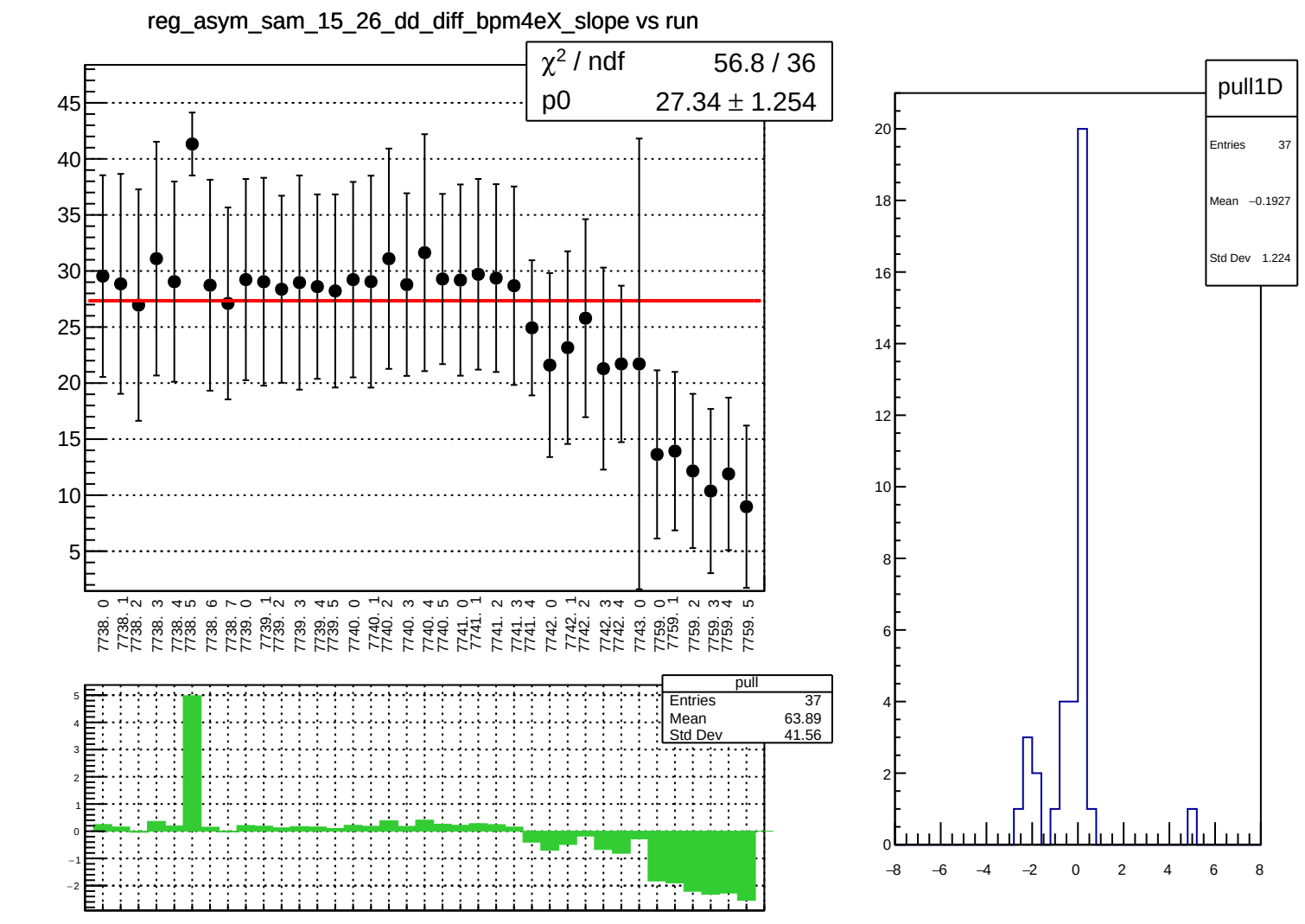

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.64 / 36
p0 −10.36 ± 1.188
pull
Entries 37
Mean 198.3
Std Dev 174.8
pull1D
Entries 37
Mean −0.03422
Std Dev 0.9808

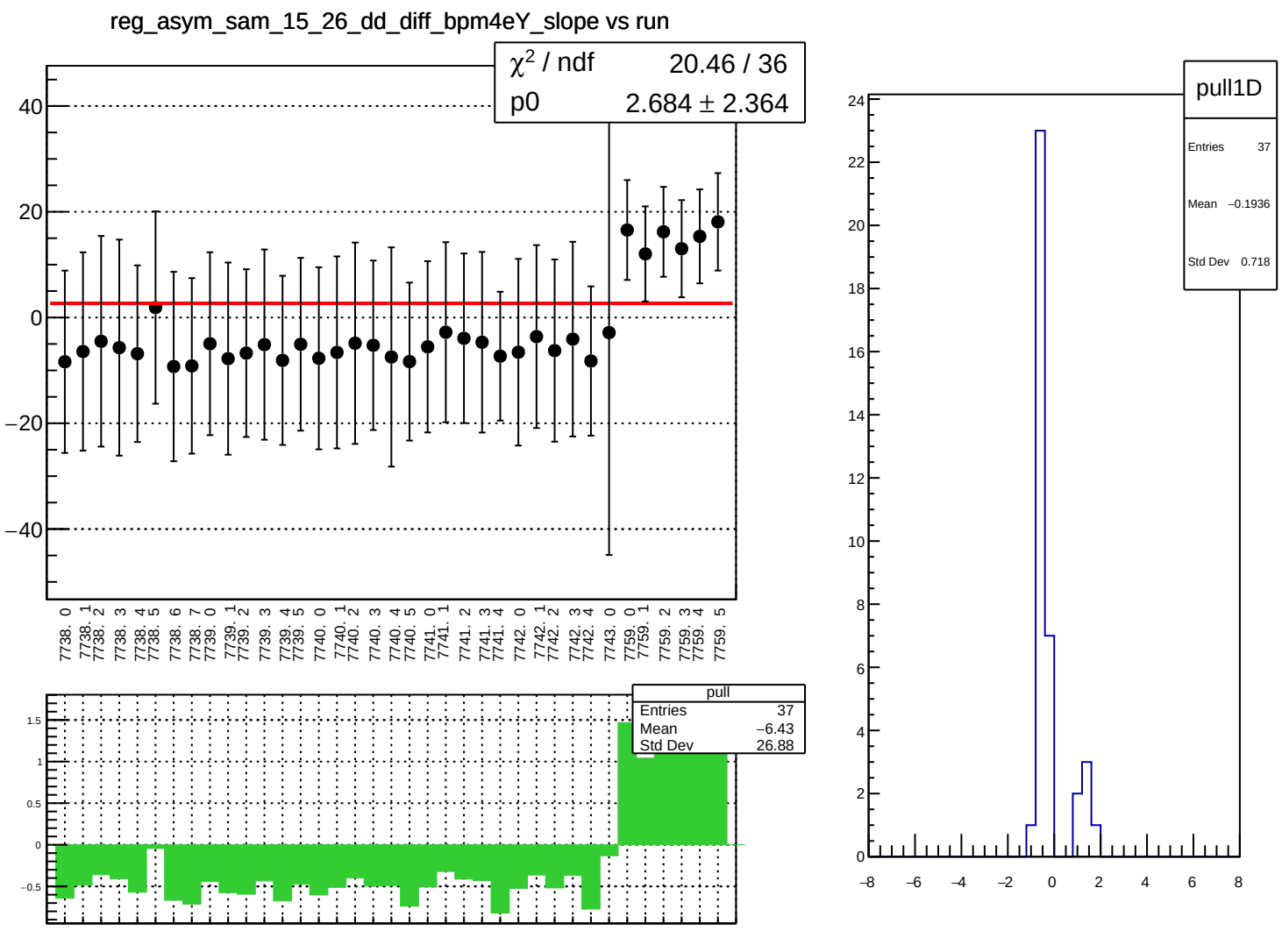

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.834 / 36
p0 0.3946 ± 0.03862
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.54
Std Dev 16.87
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

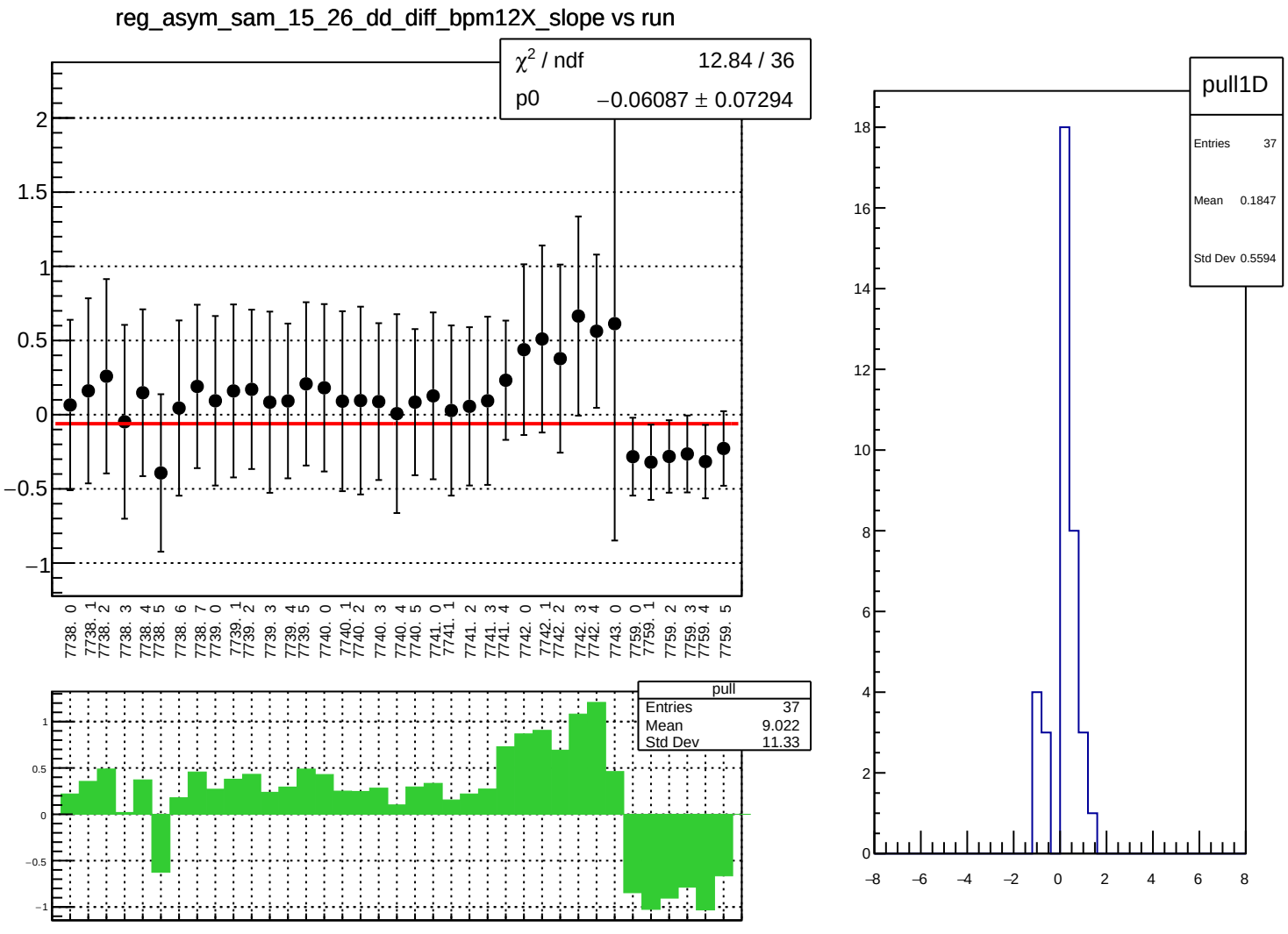

pull1D
Entries 37
Mean 0.003386
Std Dev 0.2767
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

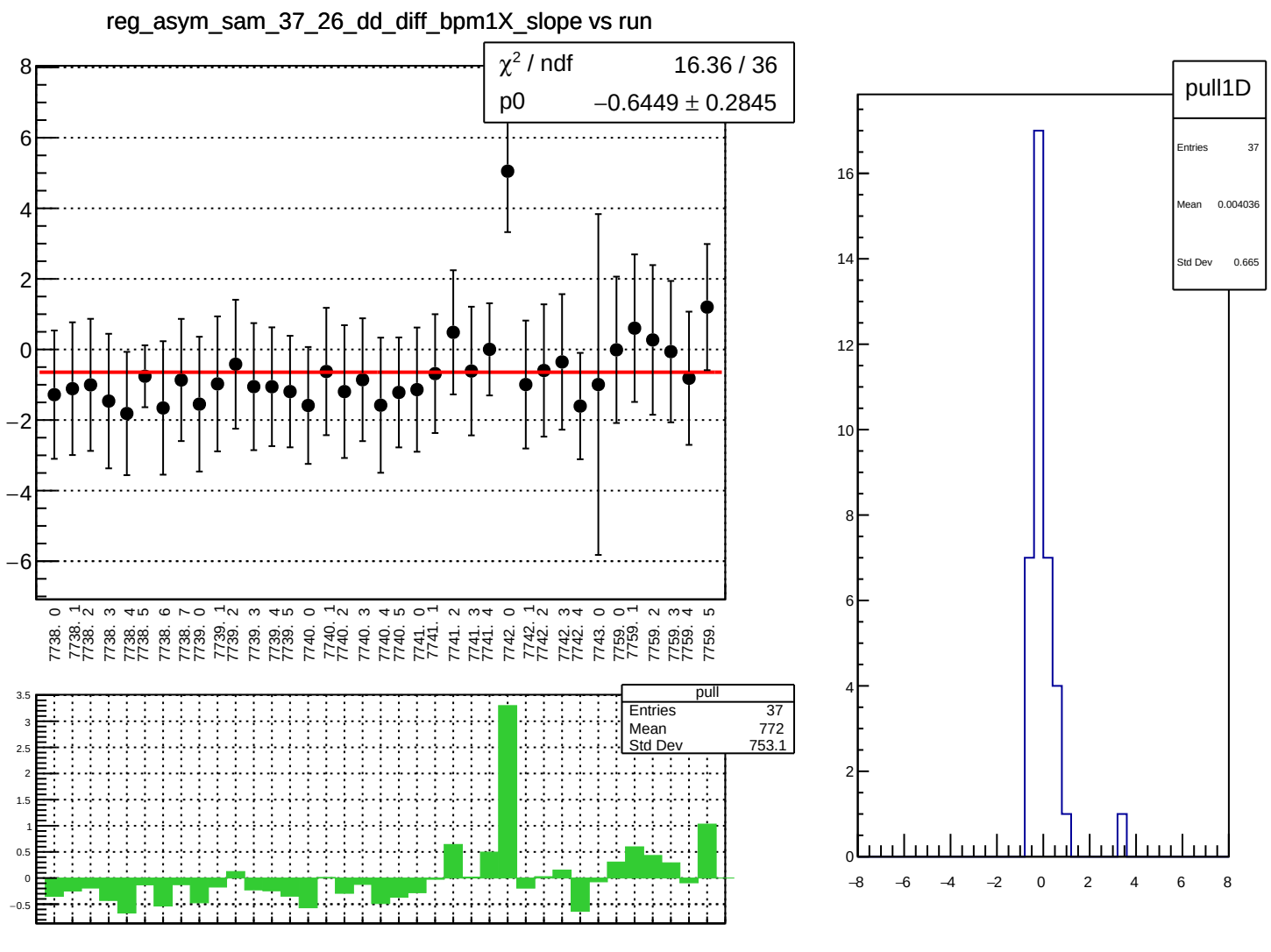

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.47 / 36
p0 5.736 ± 1.28
pull
Entries 37
Mean 36.25
Std Dev 14.91
pull1D
Entries 37
Mean 0.1439
Std Dev 0.6515

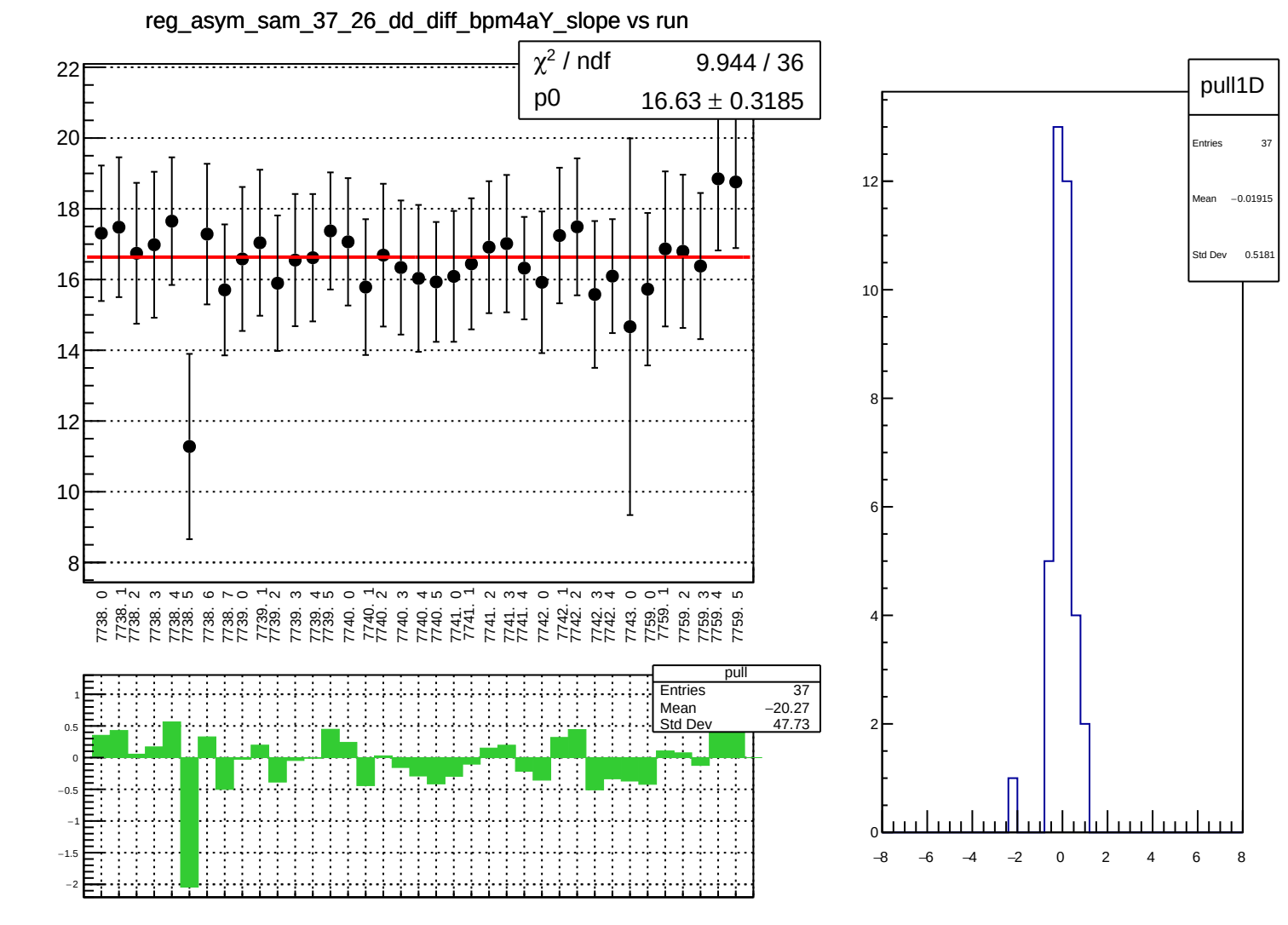

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.114 / 36
p0 20.27 ± 1.477
40
30
20
10
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −192.6
Std Dev 215.3
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.00632
Std Dev 0.2389
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

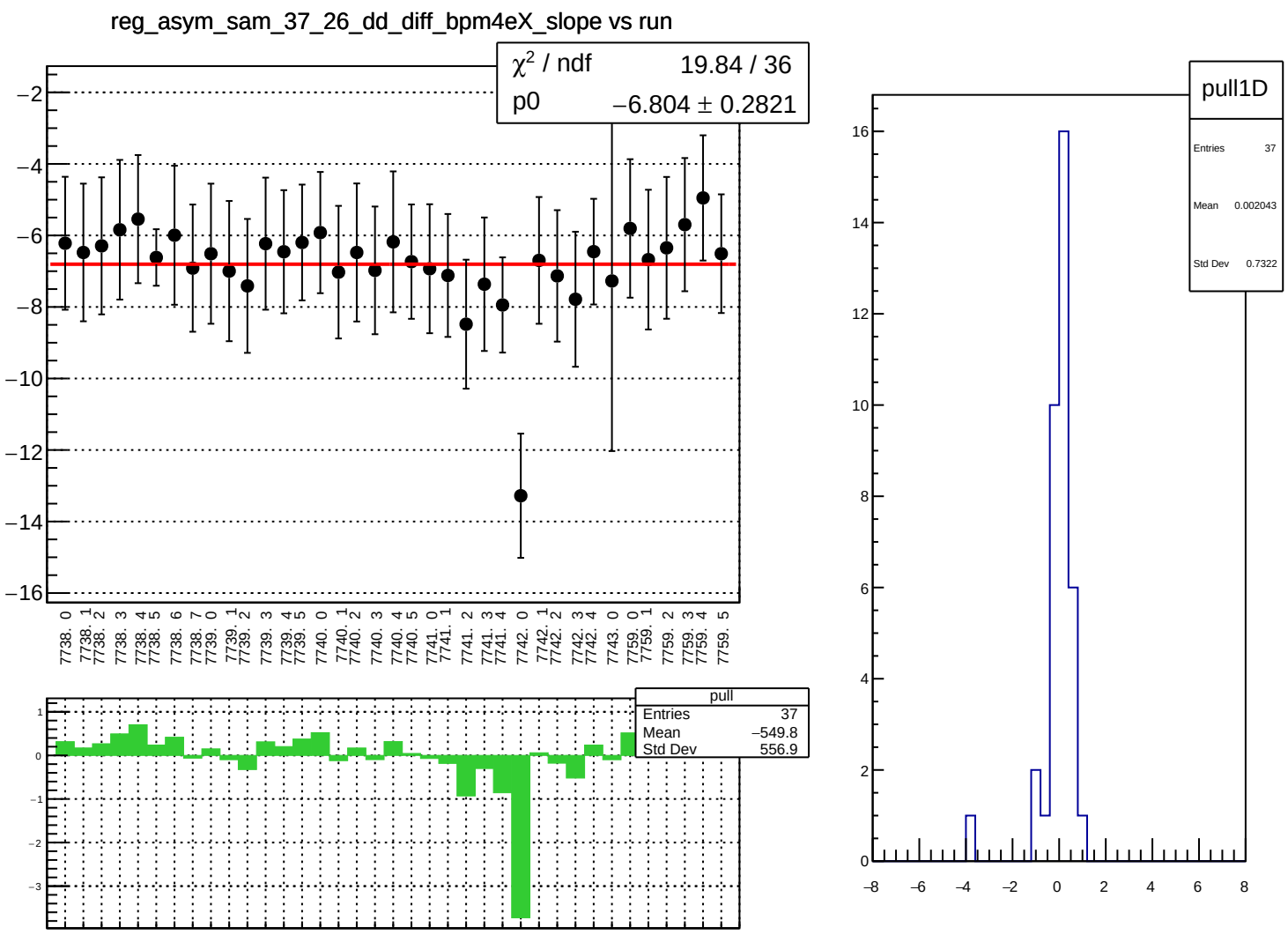

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.8 / 36
p0 27.34 ± 1.254
pull
Entries 37
Mean 63.89
Std Dev 41.56
pull1D
Entries 37
Mean −0.1927
Std Dev 1.224

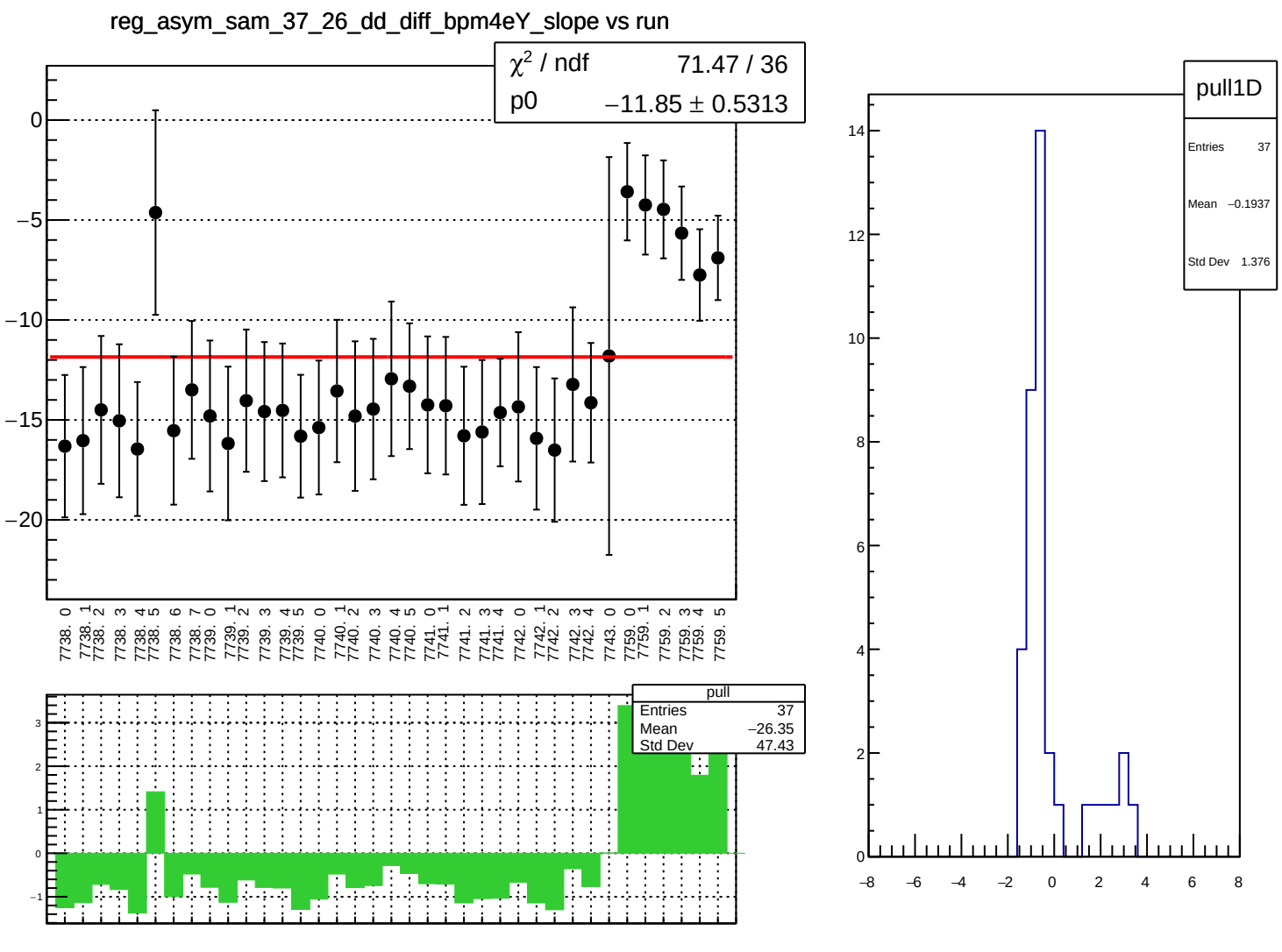

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.46 / 36
p0 2.684 ± 2.364
40
20
0
−20
−40
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.43
Std Dev 26.88
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1936
Std Dev 0.718
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

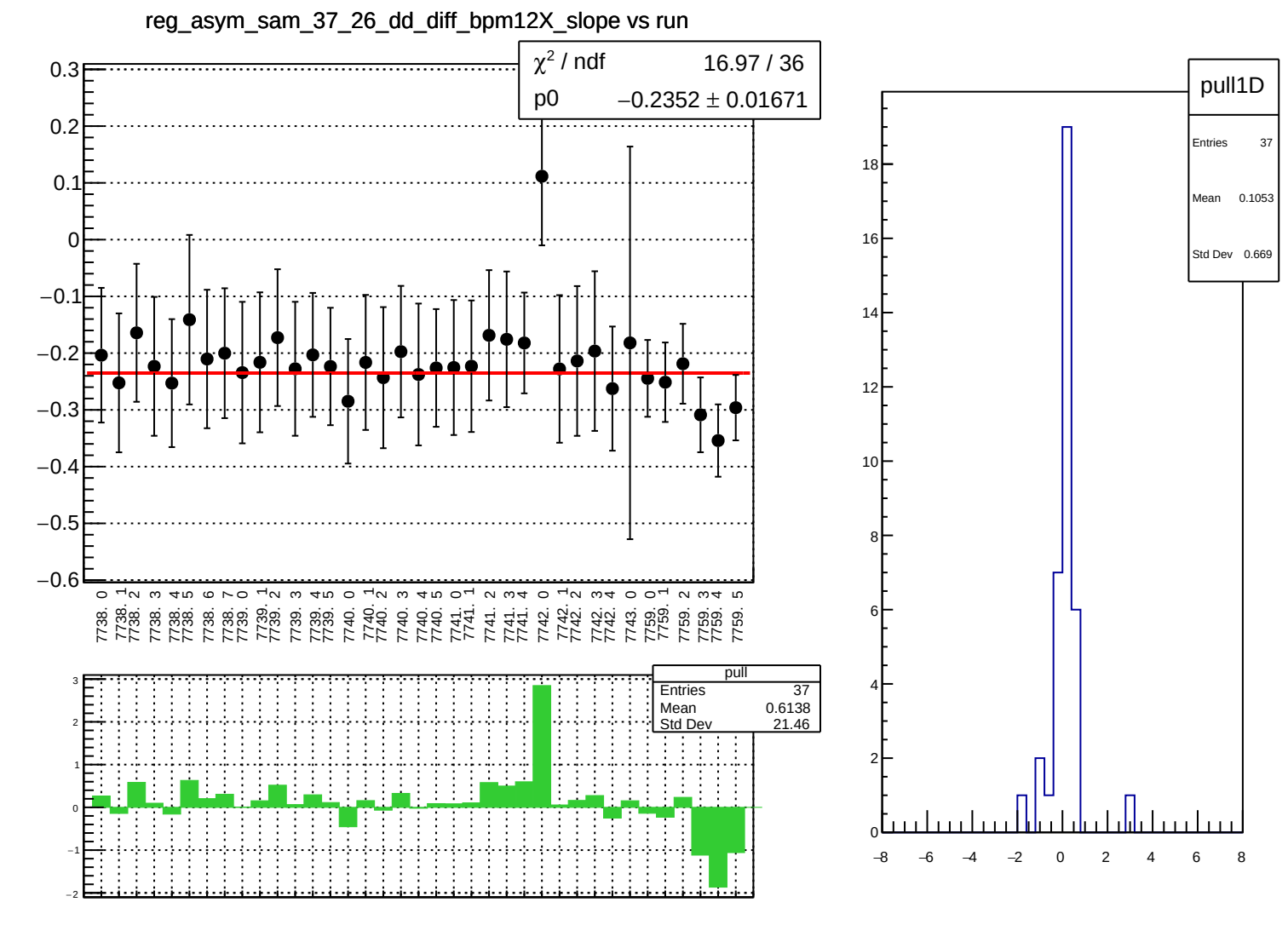

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.84 / 36
p0 −0.06087 ± 0.07294
pull
Entries 37
Mean 9.022
Std Dev 11.33
pull1D
Entries 37
Mean 0.1847
Std Dev 0.5594

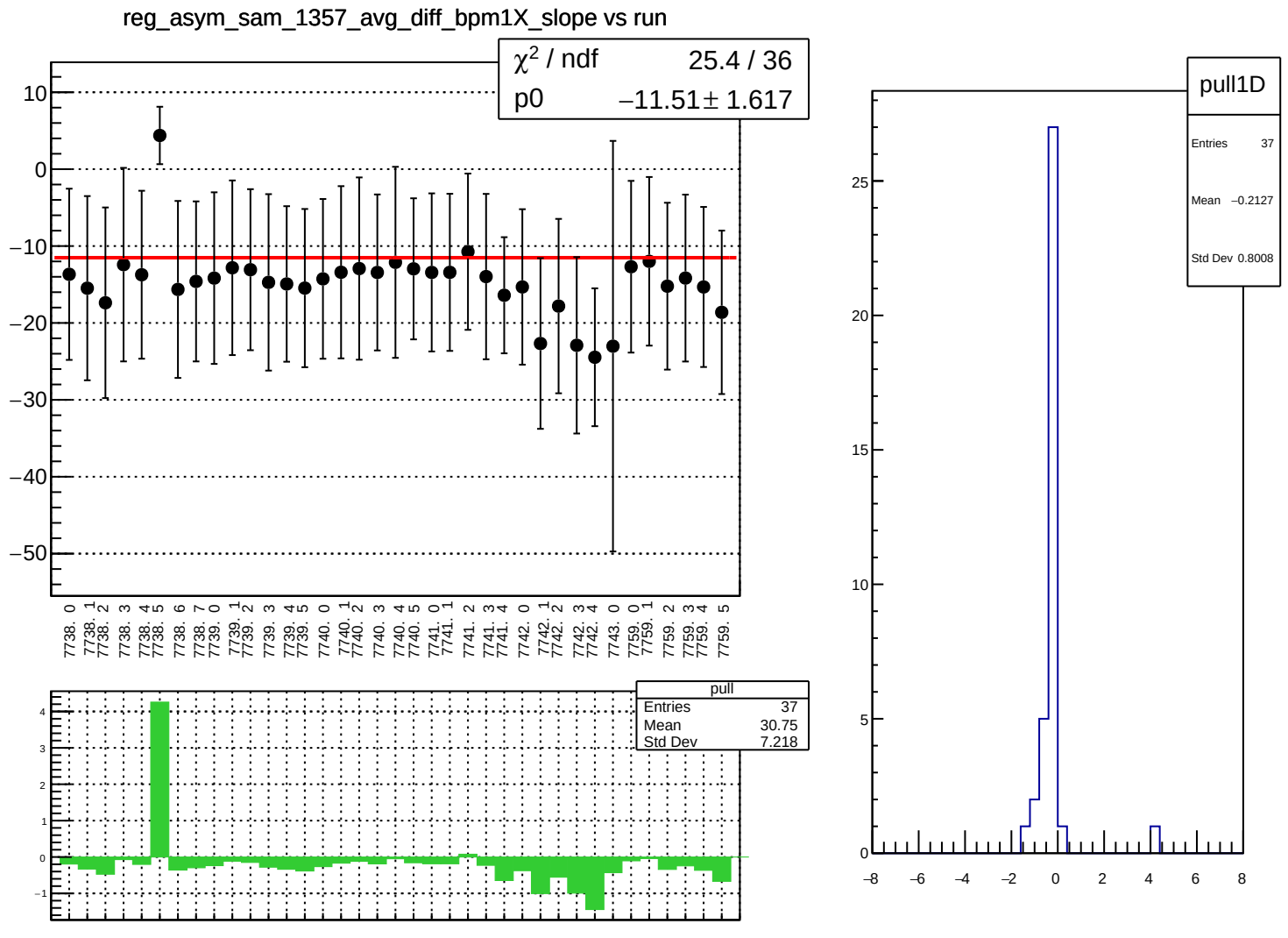

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 16.36 / 36
p0 −0.6449 ± 0.2845
pull
Entries 37
Mean 772
Std Dev 753.1
pull1D
Entries 37
Mean 0.004036
Std Dev 0.665

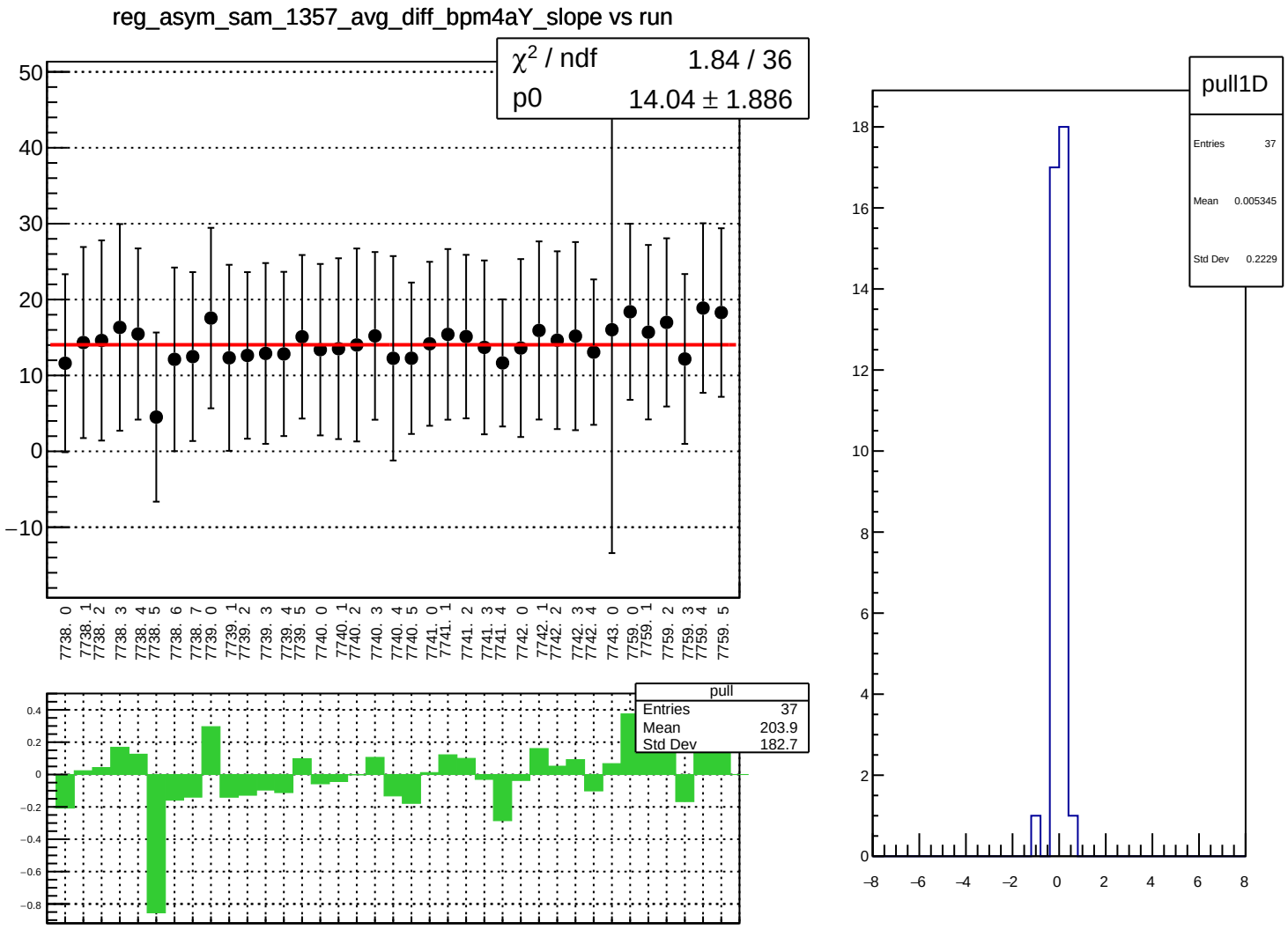

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.944 / 36
p0 16.63 ± 0.3185
pull
Entries 37
Mean −20.27
Std Dev 47.73
pull1D
Entries 37
Mean −0.01915
Std Dev 0.5181

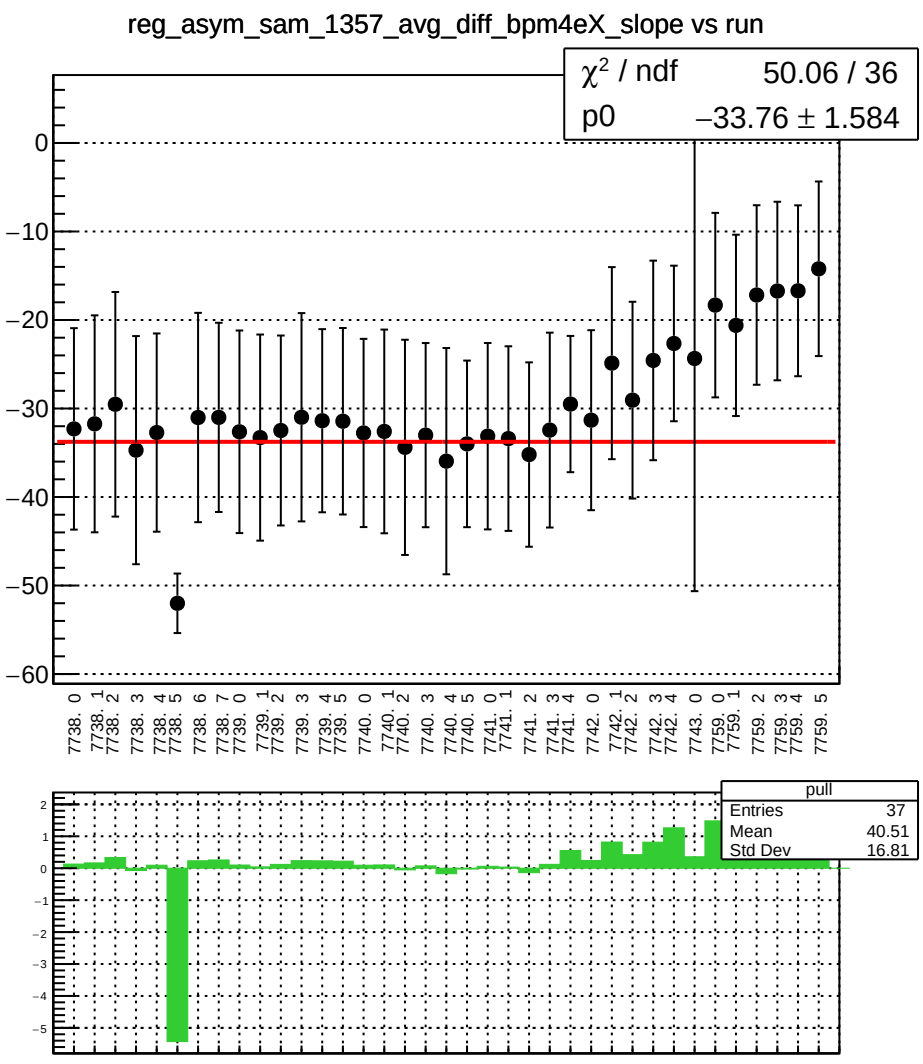

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.84 / 36
p0 −6.804 ± 0.2821
pull
Entries 37
Mean −549.8
Std Dev 556.9
pull1D
Entries 37
Mean 0.002043
Std Dev 0.7322

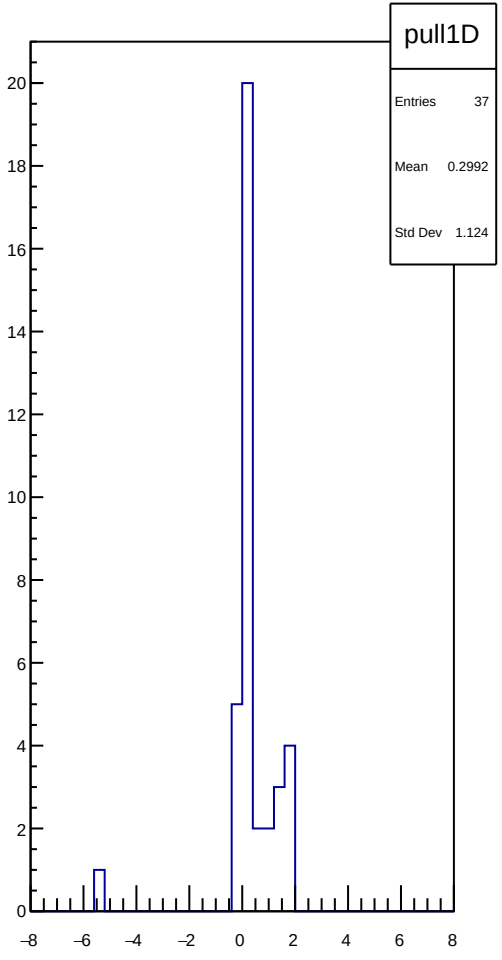

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.47 / 36
p0 −11.85 ± 0.5313
0
−5
−10
−15
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −26.35
Std Dev 47.43
3
2
1
0
−1
pull1D
Entries 37
Mean −0.1937
Std Dev 1.376
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

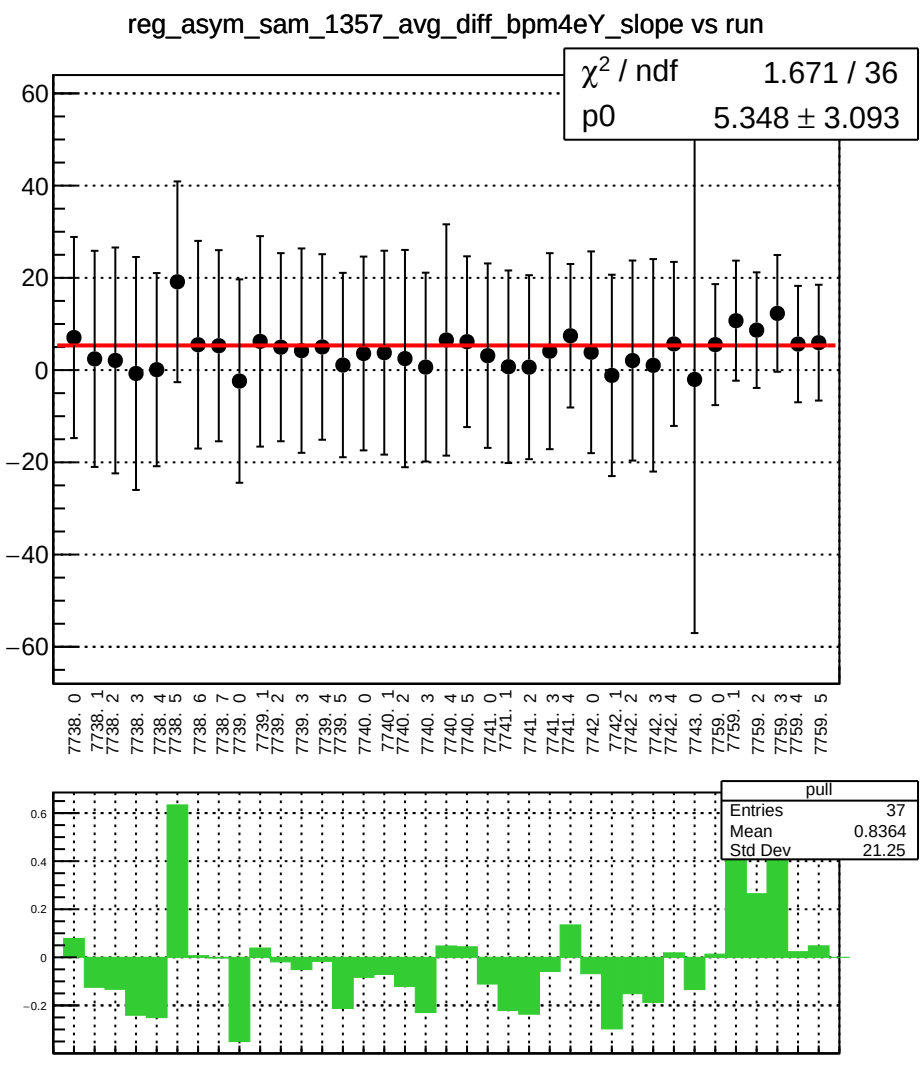

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.97 / 36
p0 −0.2352 ± 0.01671
pull
Entries 37
Mean 0.6138
Std Dev 21.46
pull1D
Entries 37
Mean 0.1053
Std Dev 0.669

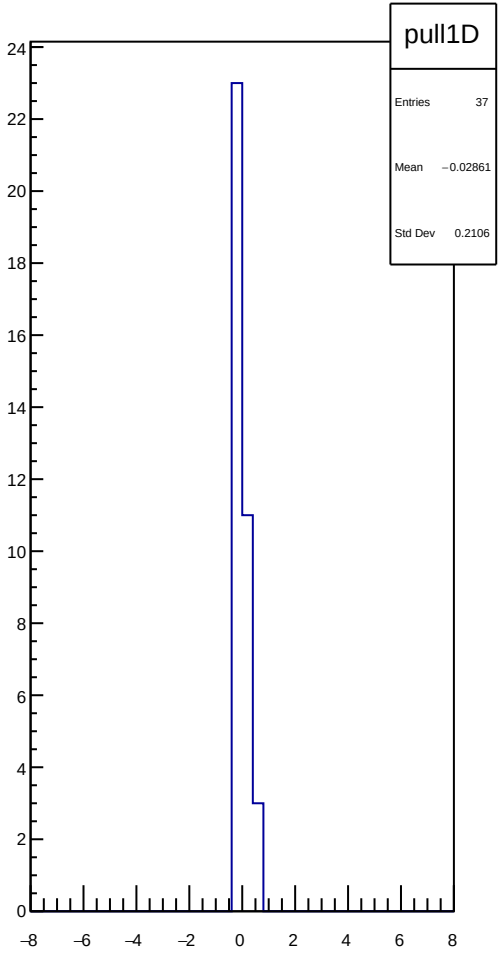

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 25.4 / 36
p0 −11.51 ± 1.617
10
0
−10
−20
−30
−40
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 30.75
Std Dev 7.218
4
3
2
1
0
−1
pull1D
Entries 37
Mean −0.2127
Std Dev 0.8008
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

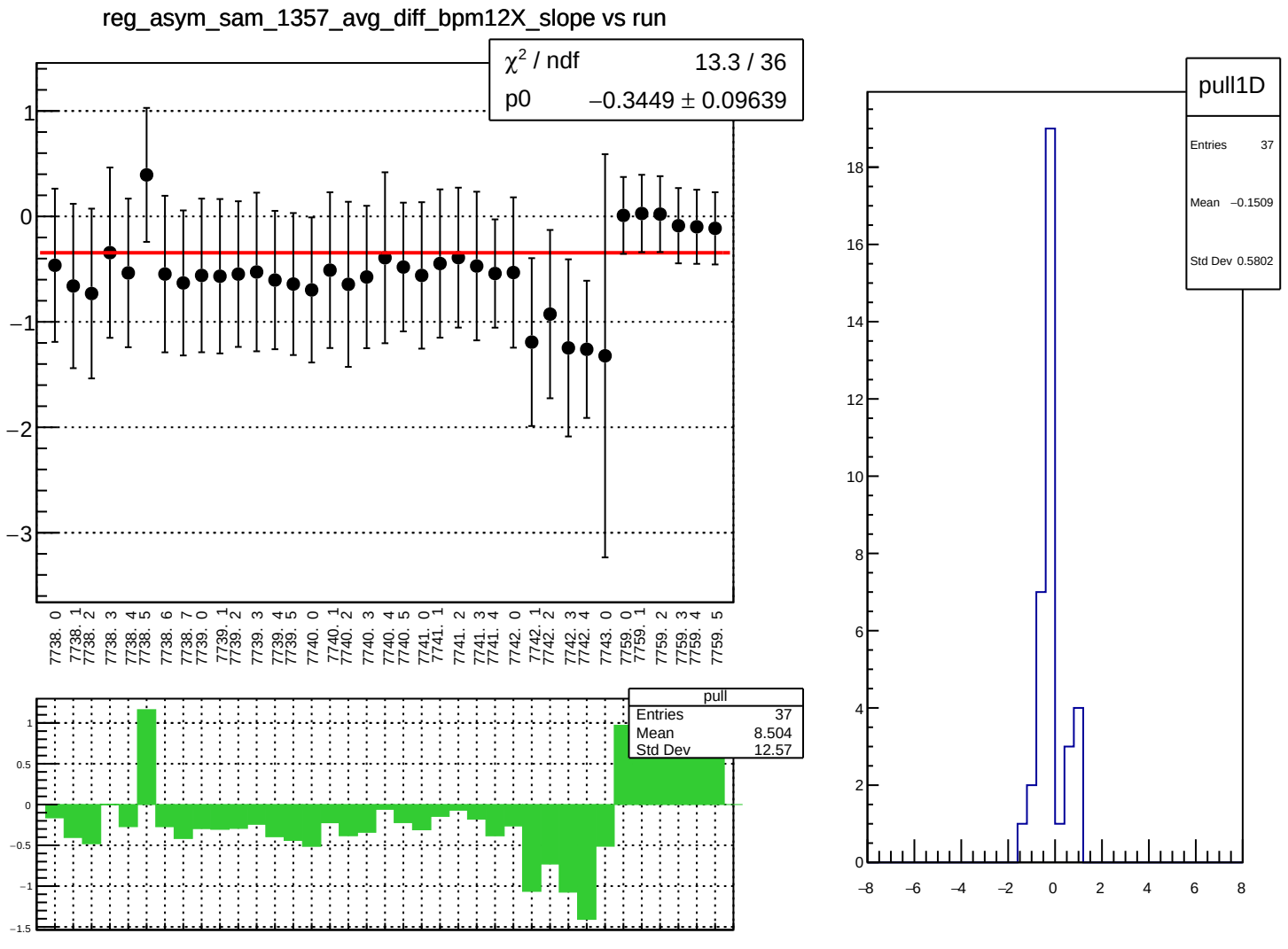

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.84 / 36
p0 14.04 ± 1.886
pull
Entries 37
Mean 203.9
Std Dev 182.7
pull1D
Entries 37
Mean 0.005345
Std Dev 0.2229

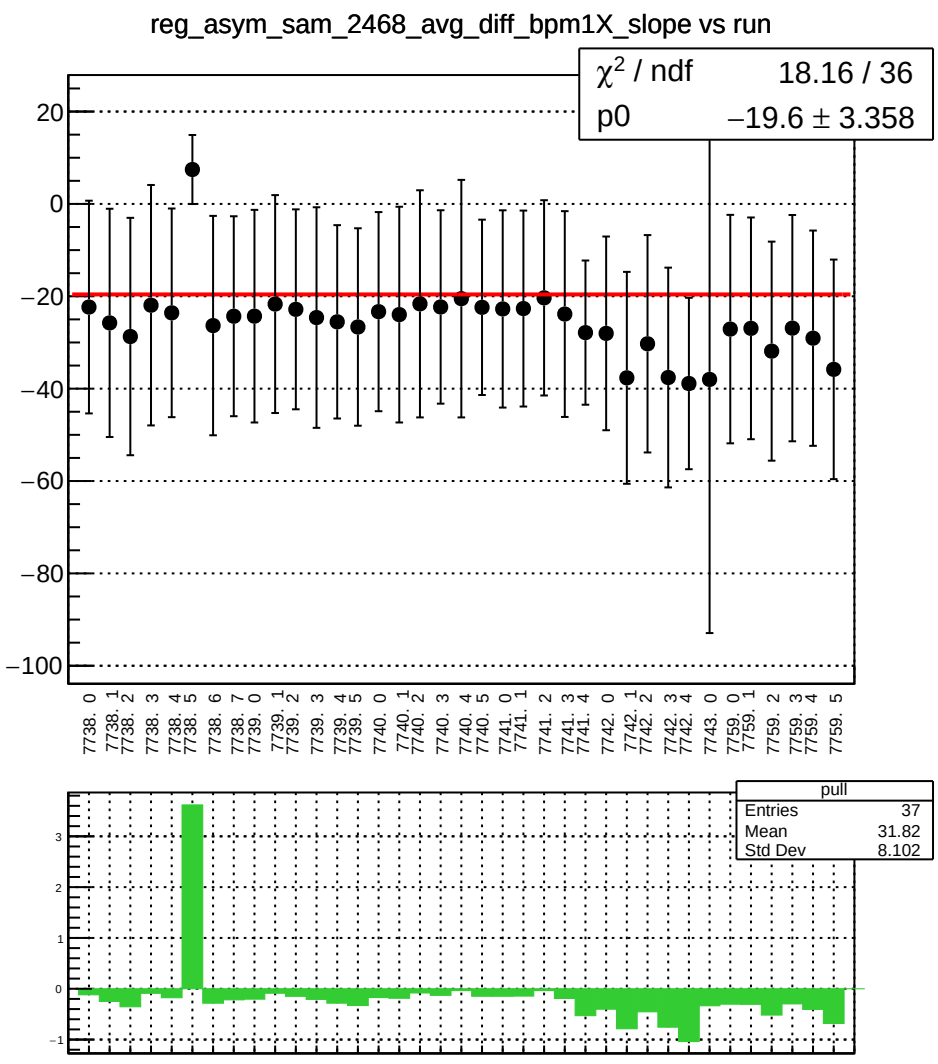

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.06 / 36
p0 −33.76 ± 1.584
pull
Entries 37
Mean 40.51
Std Dev 16.81

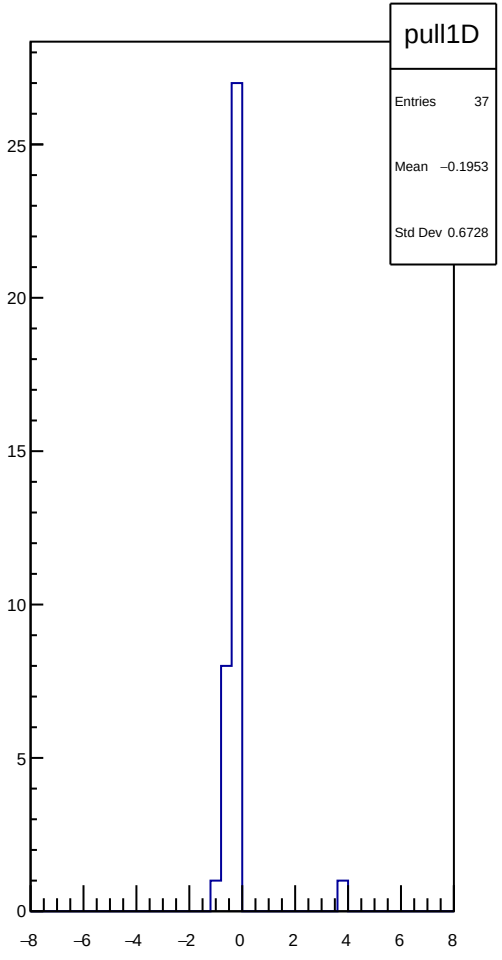

pull1D
Entries 37
Mean 0.2992
Std Dev 1.124

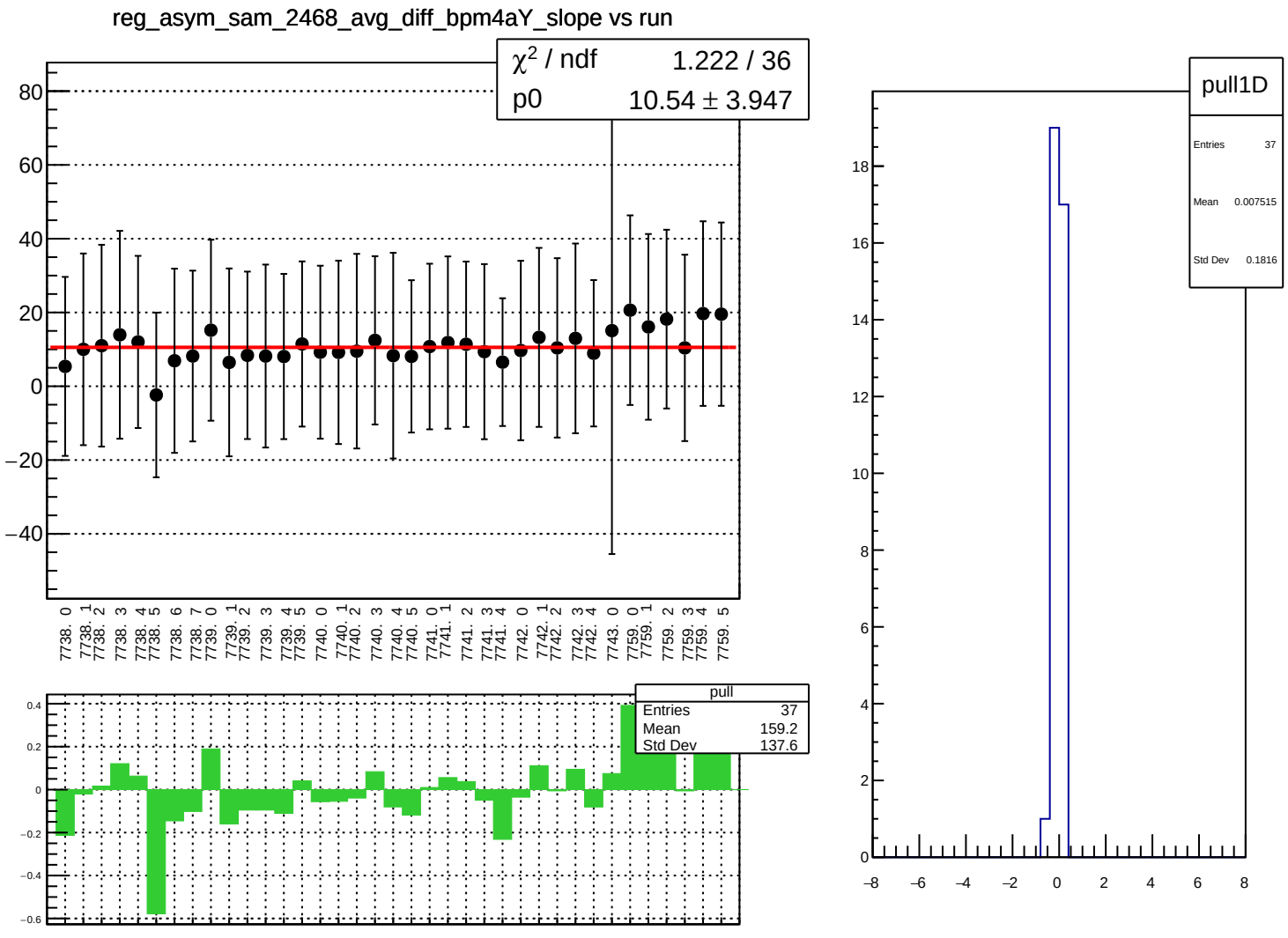

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.671 / 36
p0 5.348 ± 3.093
pull
Entries 37
Mean 0.8364
Std Dev 21.25

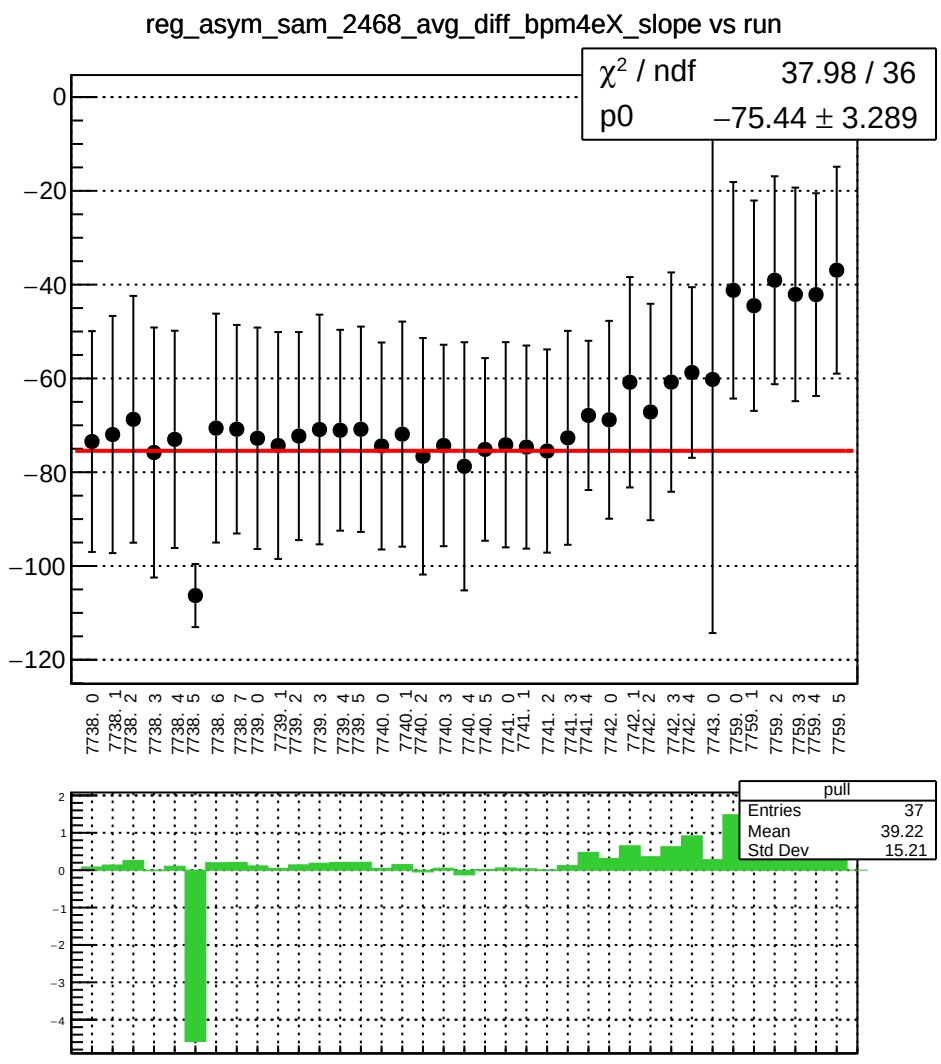

pull1D
Entries 37
Mean −0.02861
Std Dev 0.2106

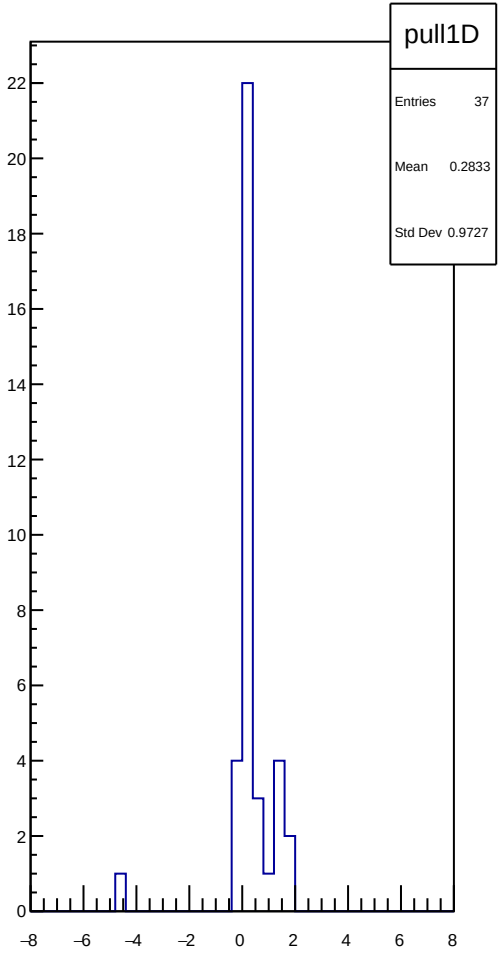

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 13.3 / 36
p0 −0.3449 ± 0.09639
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.504
Std Dev 12.57
pull1D
Entries 37
Mean −0.1509
Std Dev 0.5802

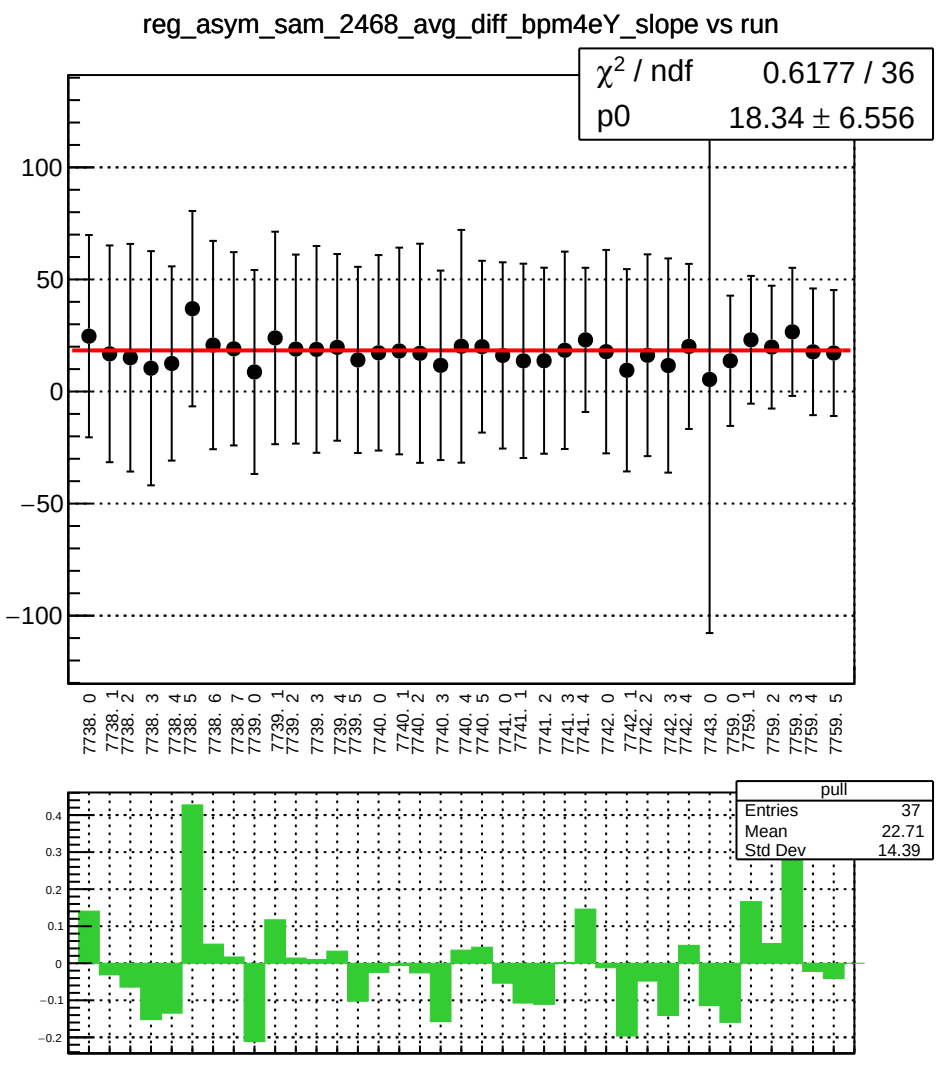

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 18.16 / 36
p0 −19.6 ± 3.358
20
0
−20
−40
−60
−80
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 31.82
Std Dev 8.102
3
2
1
0
−1

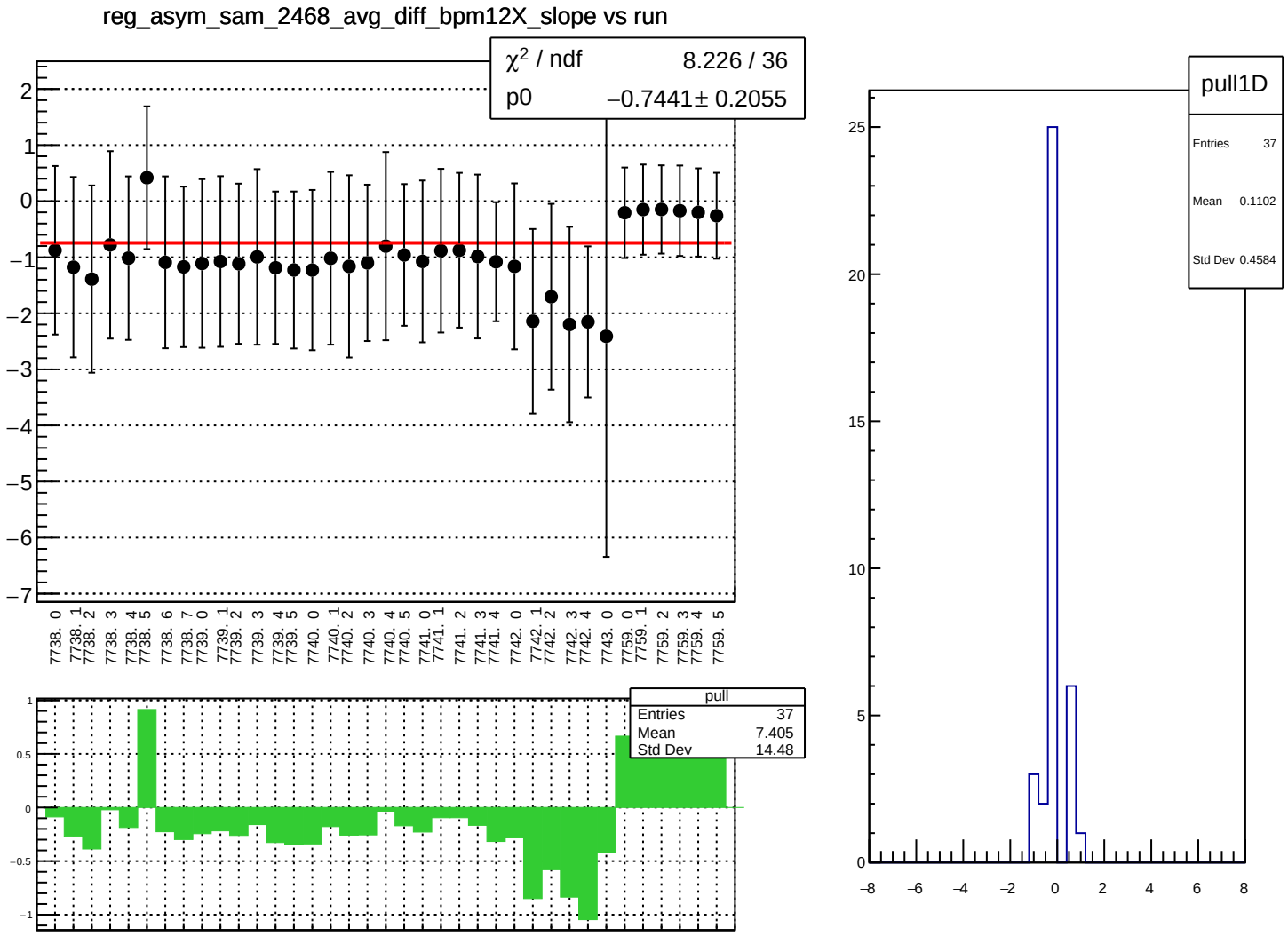

pull1D
Entries 37
Mean −0.1953
Std Dev 0.6728
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

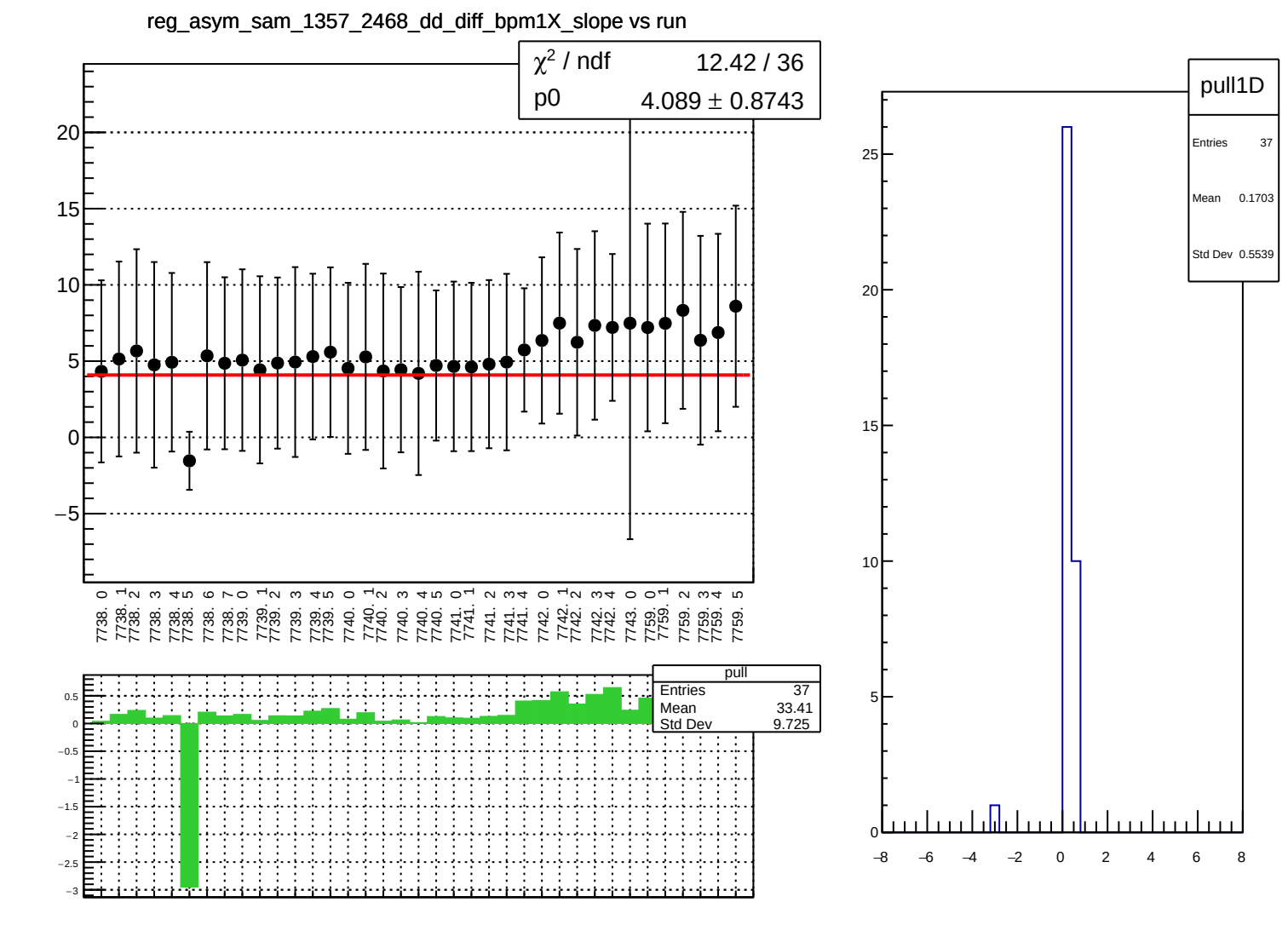

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.222 / 36
p0 10.54 ± 3.947
pull
Entries 37
Mean 159.2
Std Dev 137.6
pull1D
Entries 37
Mean 0.007515
Std Dev 0.1816

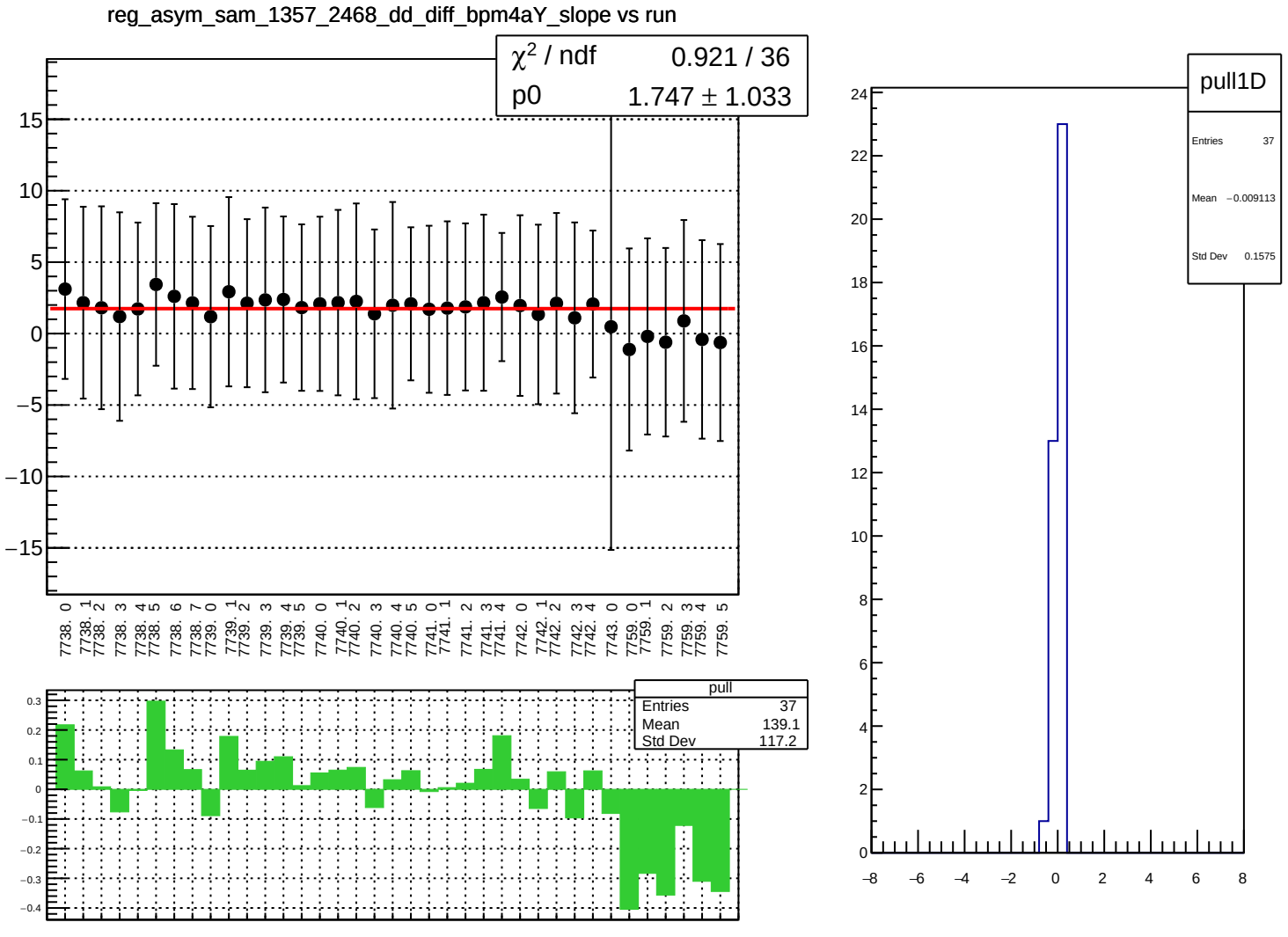

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.98 / 36
p0 −75.44 ± 3.289
0
−20
−40
−60
−80
−100
−120
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.22
Std Dev 15.21
2
1
0
−1
−2
−3
−4

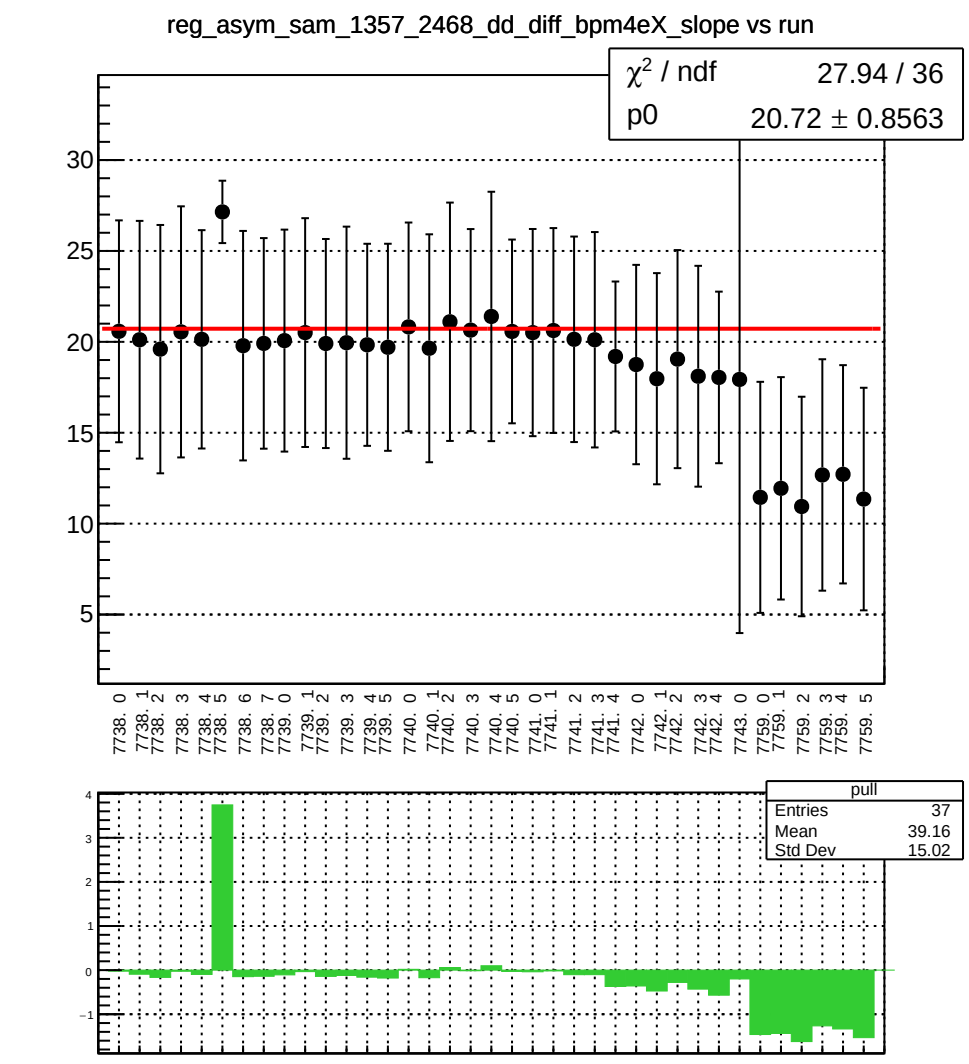

pull1D
Entries 37
Mean 0.2833
Std Dev 0.9727
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

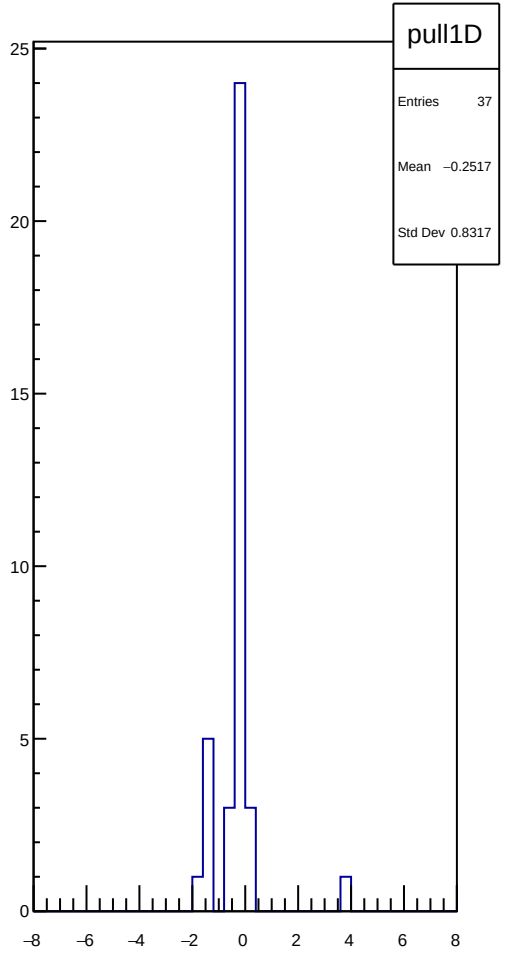

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.6177 / 36
p0 18.34 ± 6.556
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.71
Std Dev 14.39
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 37
Mean −0.008746
Std Dev 0.1289
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

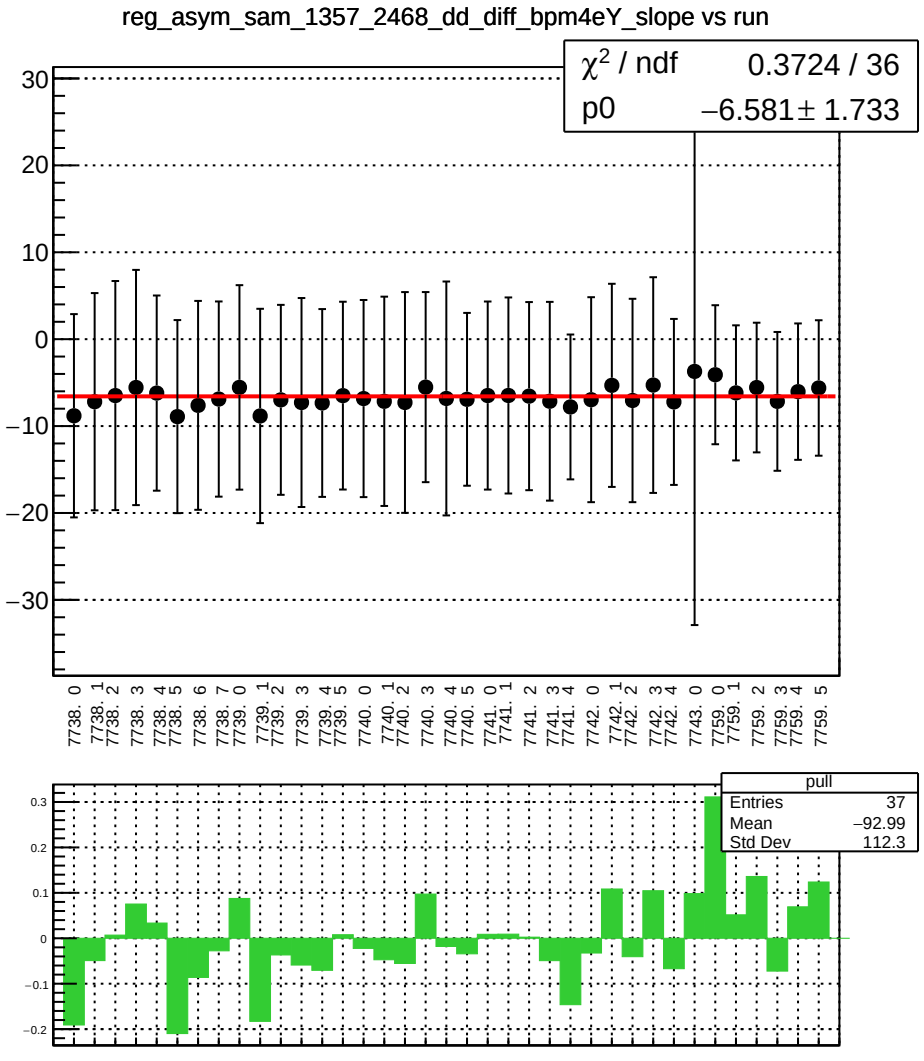

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 8.226 / 36
p0 −0.7441± 0.2055
pull
Entries 37
Mean 7.405
Std Dev 14.48
pull1D
Entries 37
Mean −0.1102
Std Dev 0.4584

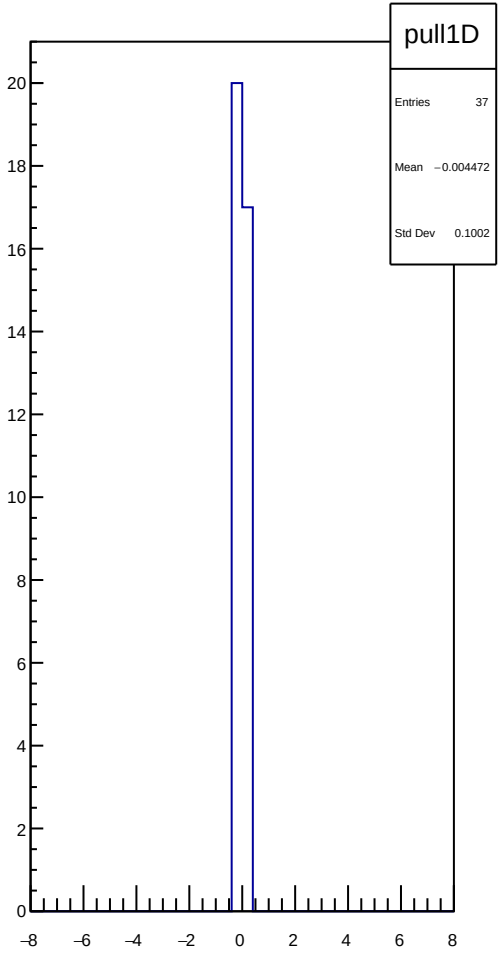

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 12.42 / 36
p0 4.089 ± 0.8743
pull
Entries 37
Mean 33.41
Std Dev 9.725
pull1D
Entries 37
Mean 0.1703
Std Dev 0.5539

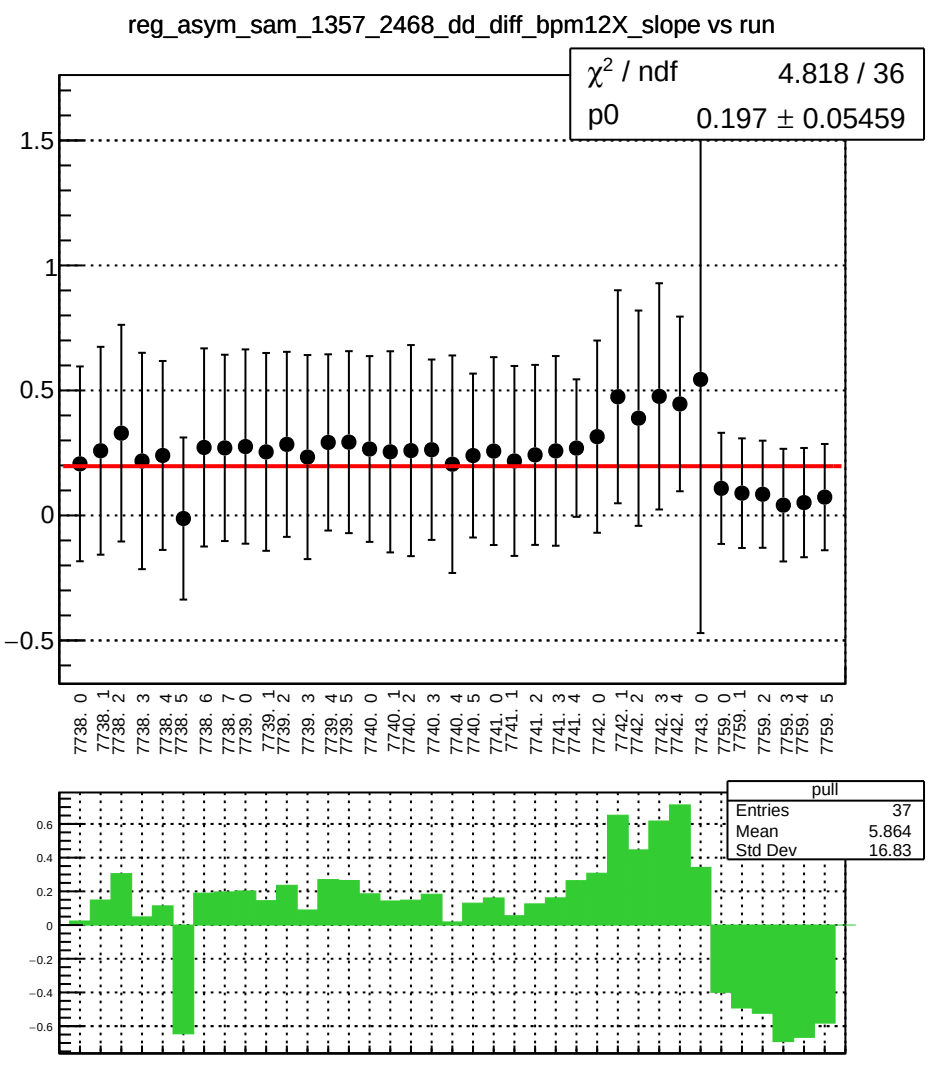

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.921 / 36
p0 1.747 ± 1.033
15
10
5
0
−5
−10
−15
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 139.1
Std Dev 117.2
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 37
Mean −0.009113
Std Dev 0.1575
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

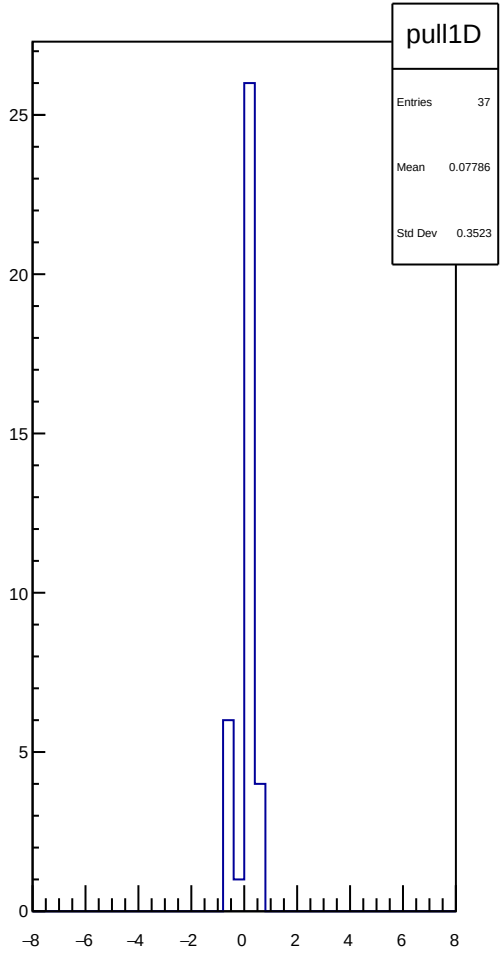

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.94 / 36
p0 20.72 ± 0.8563
30
25
20
15
10
5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.16
Std Dev 15.02
4
3
2
1
0
−1

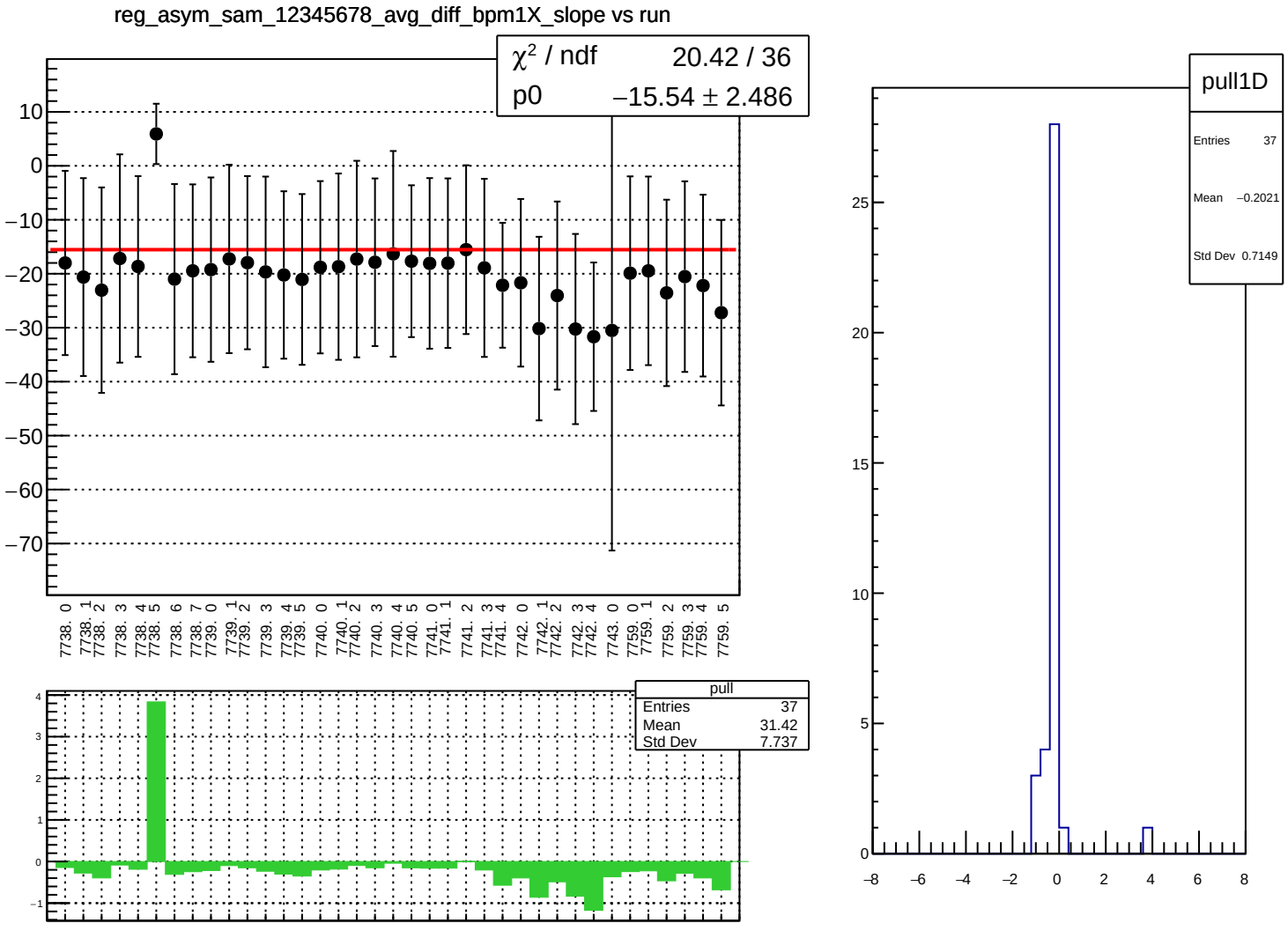

pull1D
Entries 37
Mean −0.2517
Std Dev 0.8317
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

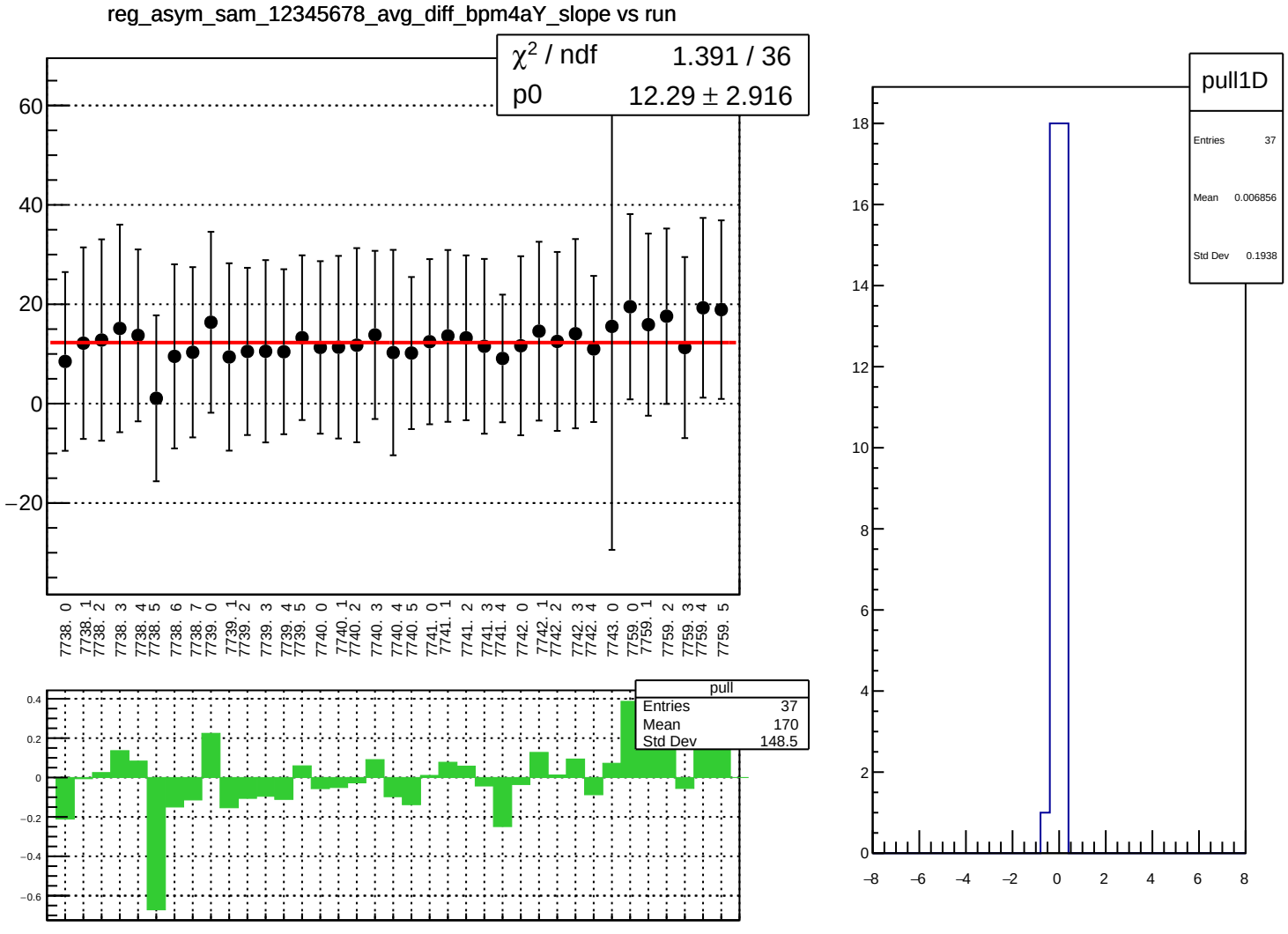

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.3724 / 36
p0 −6.581 ± 1.733
30
20
10
0
−10
−20
−30
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −92.99
Std Dev 112.3
0.3
0.2
0.1
0
−0.1
−0.2

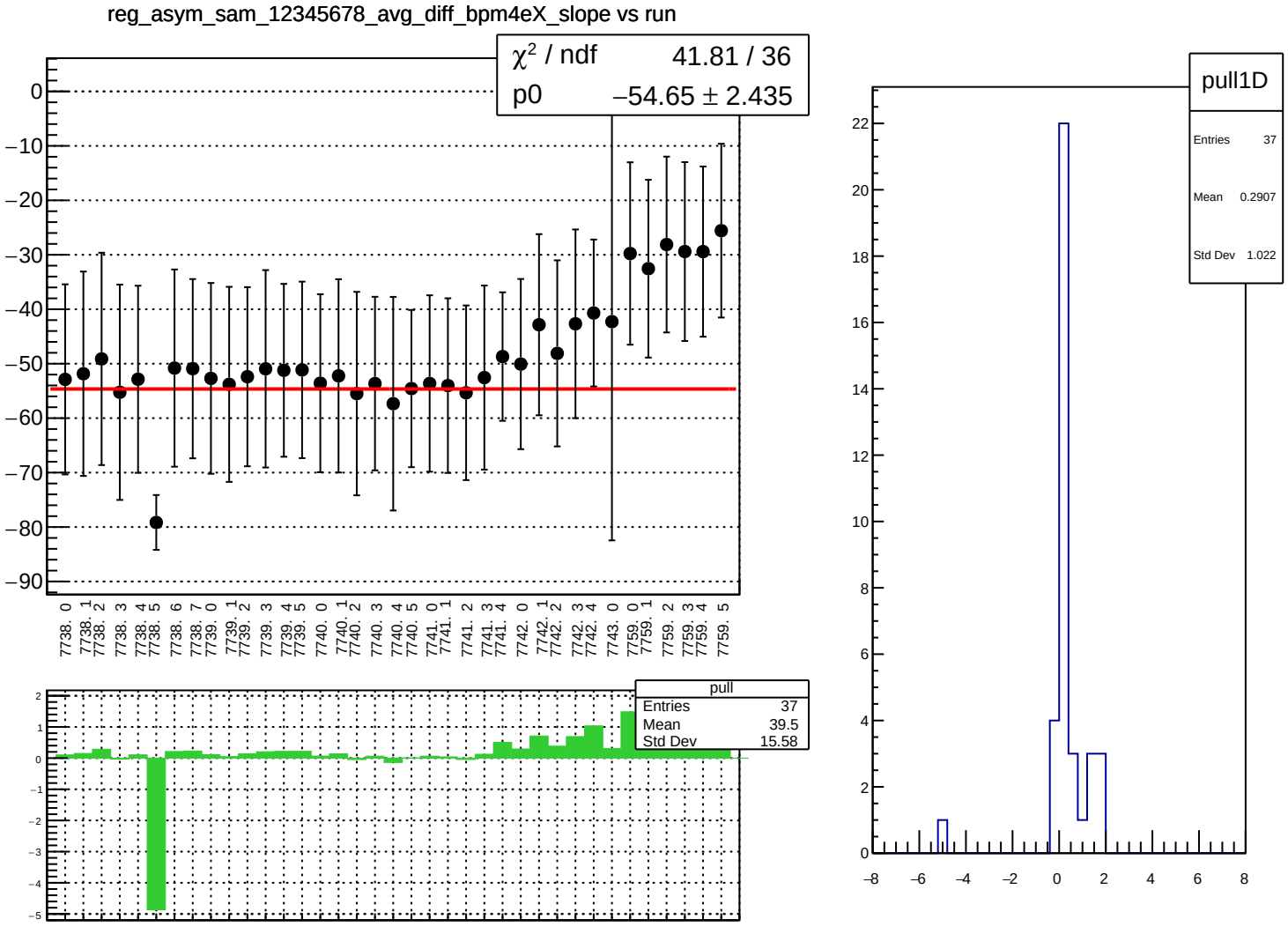

pull1D
Entries 37
Mean −0.004472
Std Dev 0.1002
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

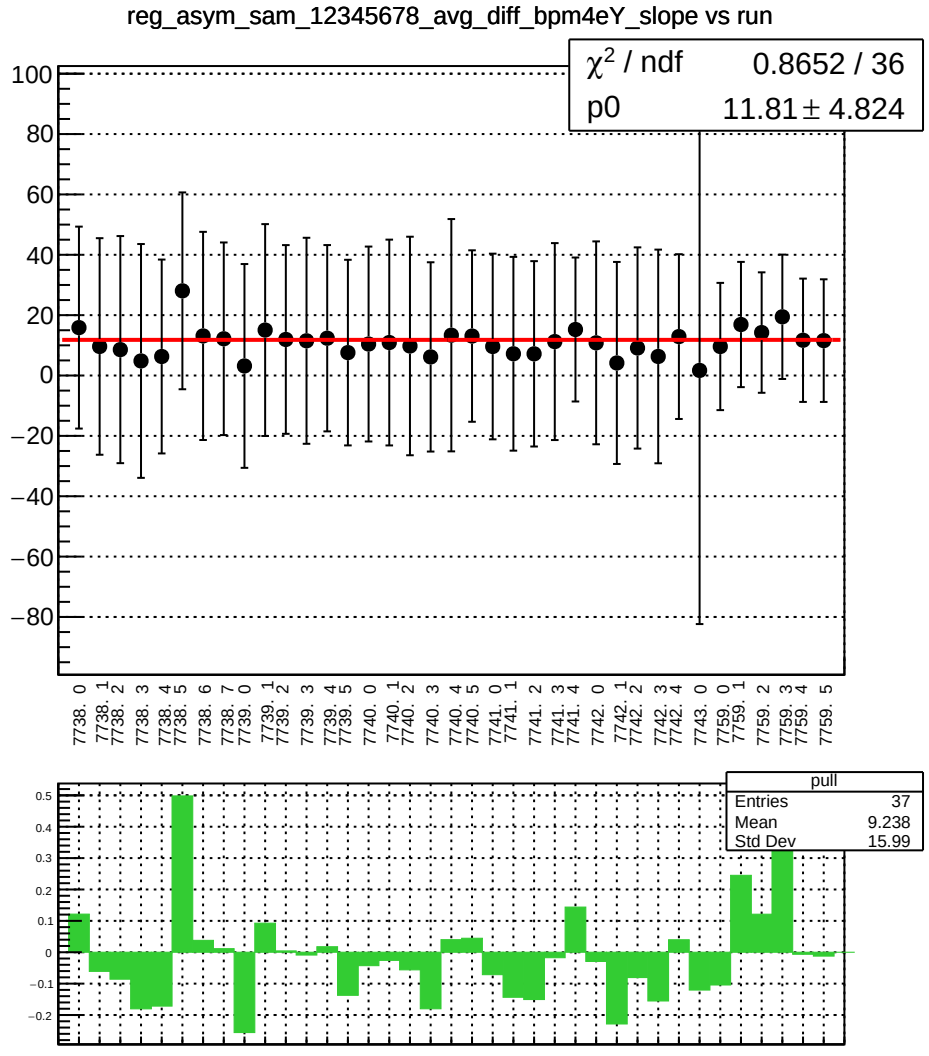

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.818 / 36
p0 0.197 ± 0.05459
1.5
1
0.5
0
−0.5
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 5.864
Std Dev 16.83
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

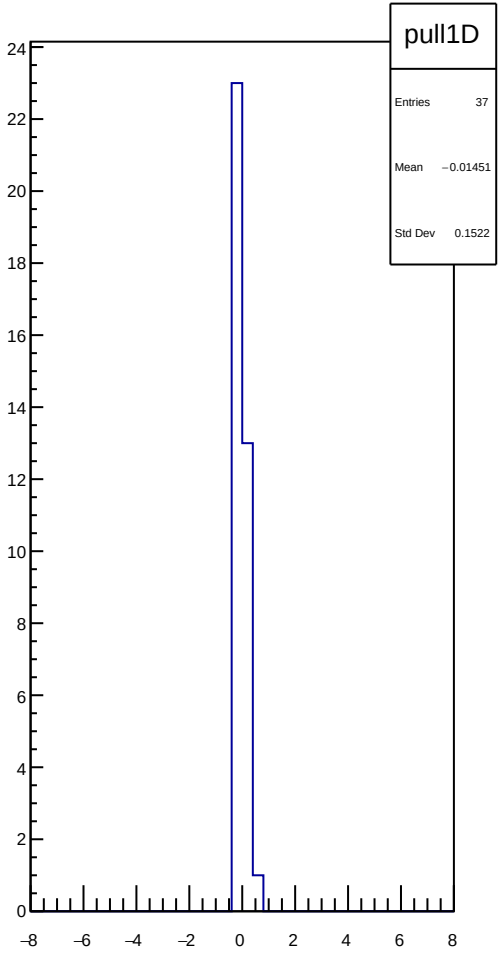

pull1D
Entries 37
Mean 0.07786
Std Dev 0.3523
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

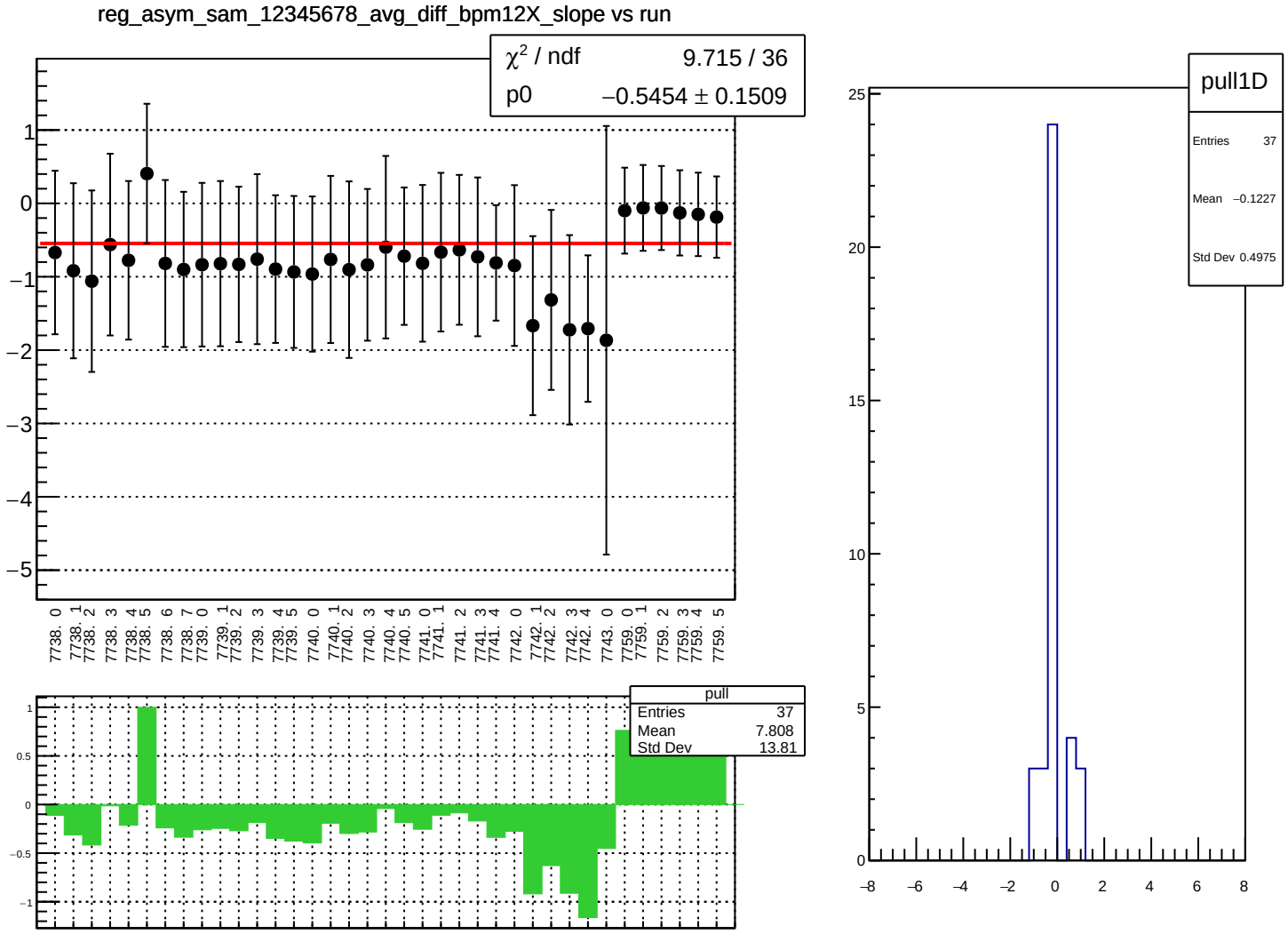

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 20.42 / 36
p0 −15.54 ± 2.486
pull
Entries 37
Mean 31.42
Std Dev 7.737
pull1D
Entries 37
Mean −0.2021
Std Dev 0.7149

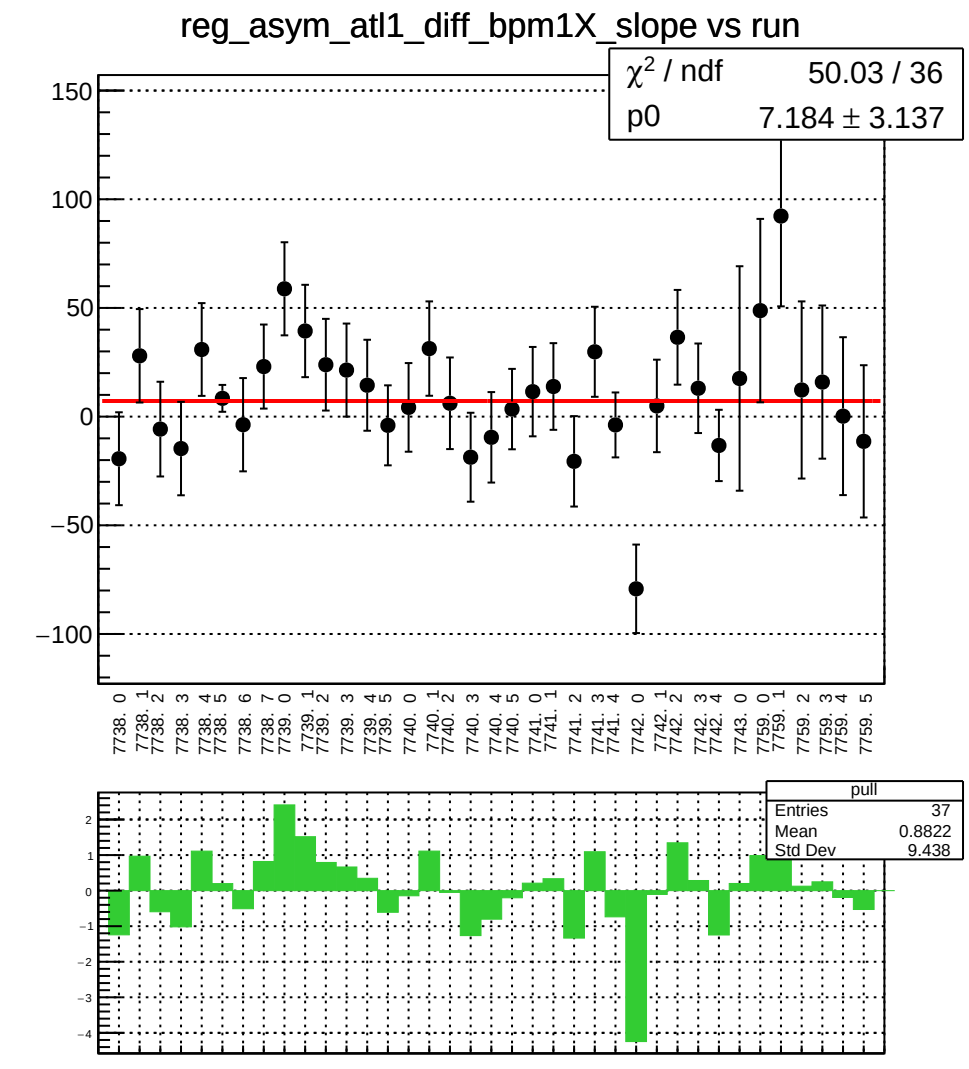

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.391 / 36
p0 12.29 ± 2.916
60
40
20
0
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 170
Std Dev 148.5
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.006856
Std Dev 0.1938
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

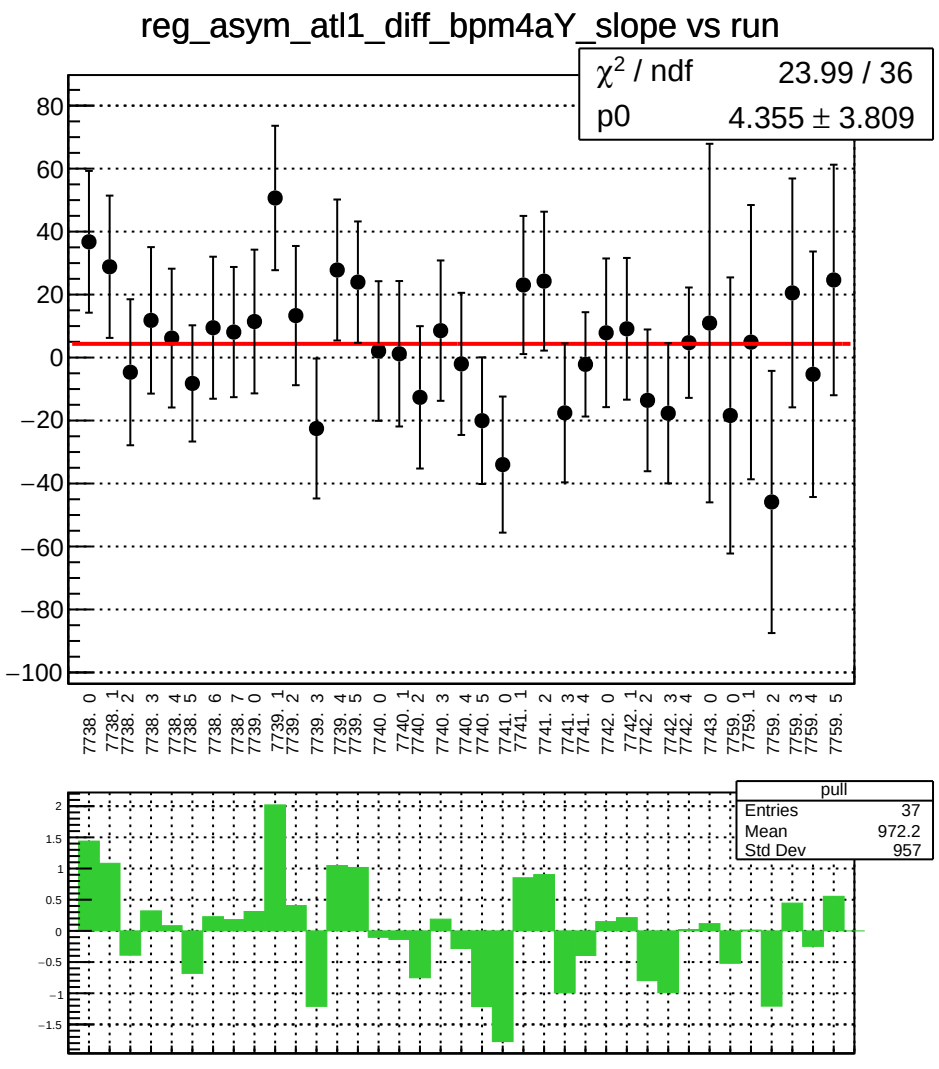

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.81 / 36
p0 −54.65 ± 2.435
pull
Entries 37
Mean 39.5
Std Dev 15.58
pull1D
Entries 37
Mean 0.2907
Std Dev 1.022

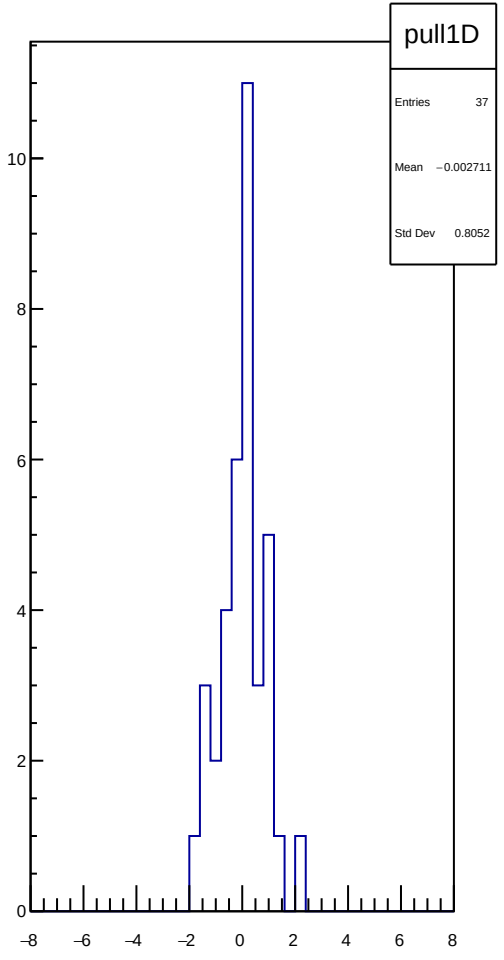

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.8652 / 36
p0 11.81 ± 4.824
pull
Entries 37
Mean 9.238
Std Dev 15.99

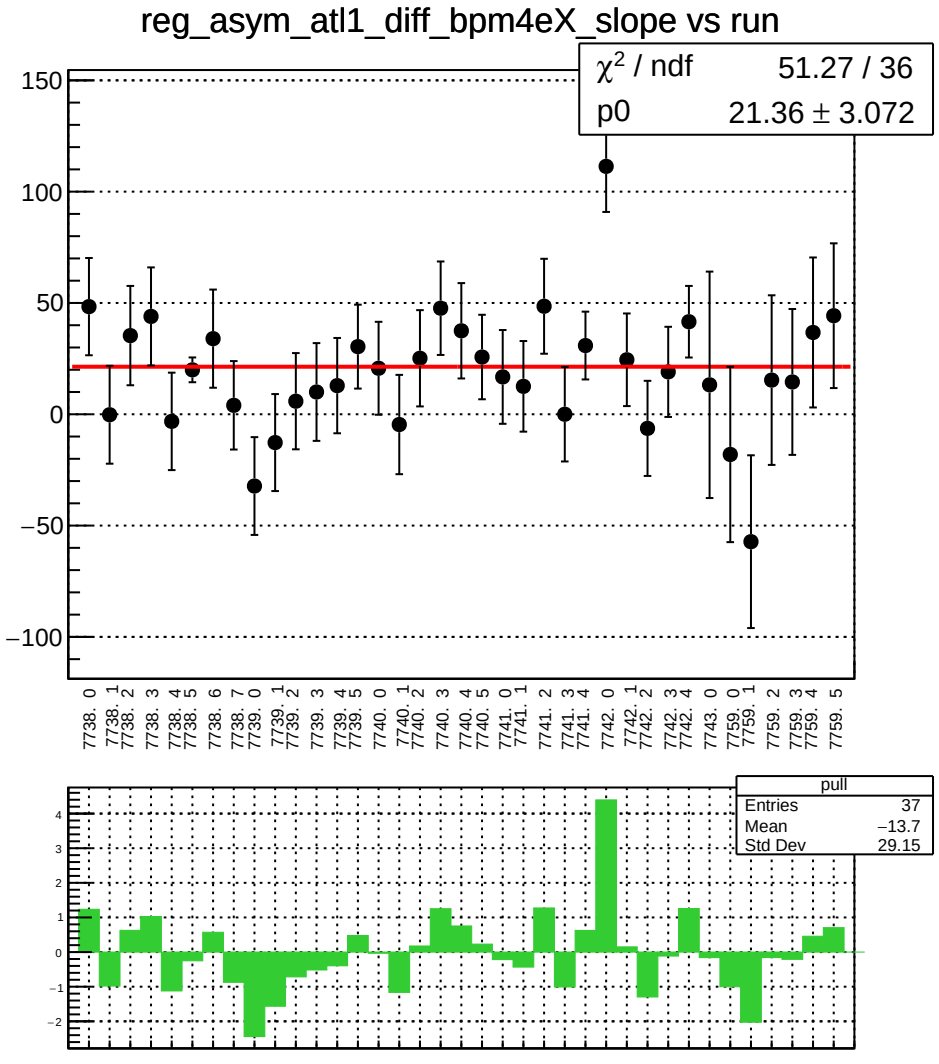

pull1D
Entries 37
Mean −0.01451
Std Dev 0.1522

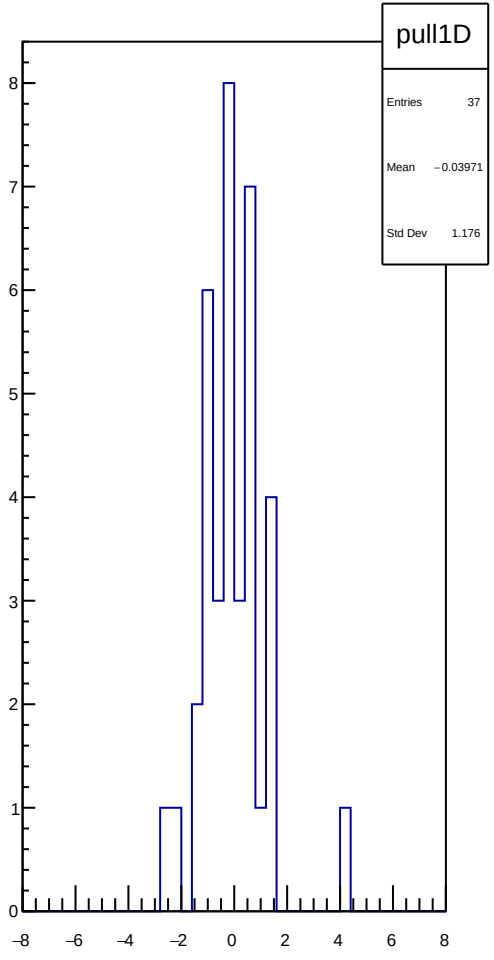

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 9.715 / 36
p0 −0.5454 ± 0.1509
pull
Entries 37
Mean 7.808
Std Dev 13.81
pull1D
Entries 37
Mean −0.1227
Std Dev 0.4975

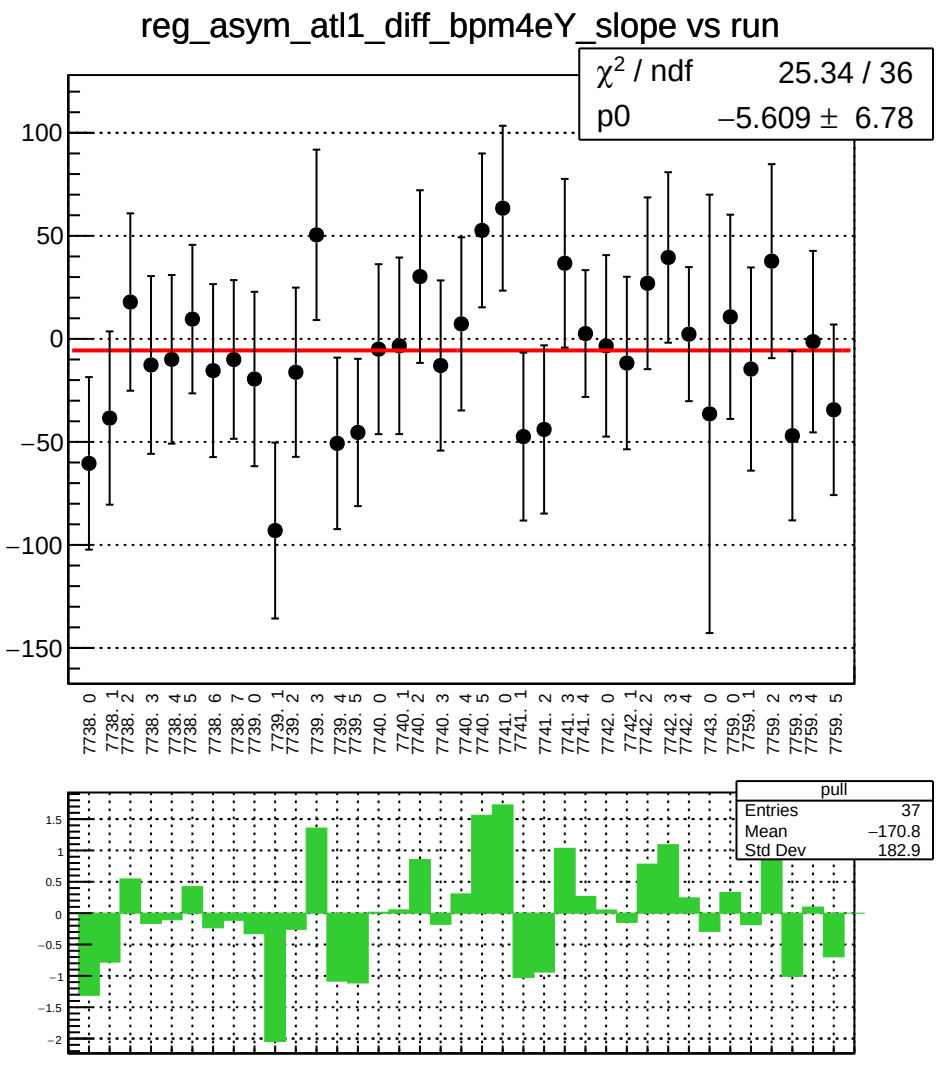

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 50.03 / 36
p0 7.184 ± 3.137
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 0.8822
Std Dev 9.438
2
1
0
−1
−2
−3
−4
pull1D
Entries 37
Mean 0.05367
Std Dev 1.162
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

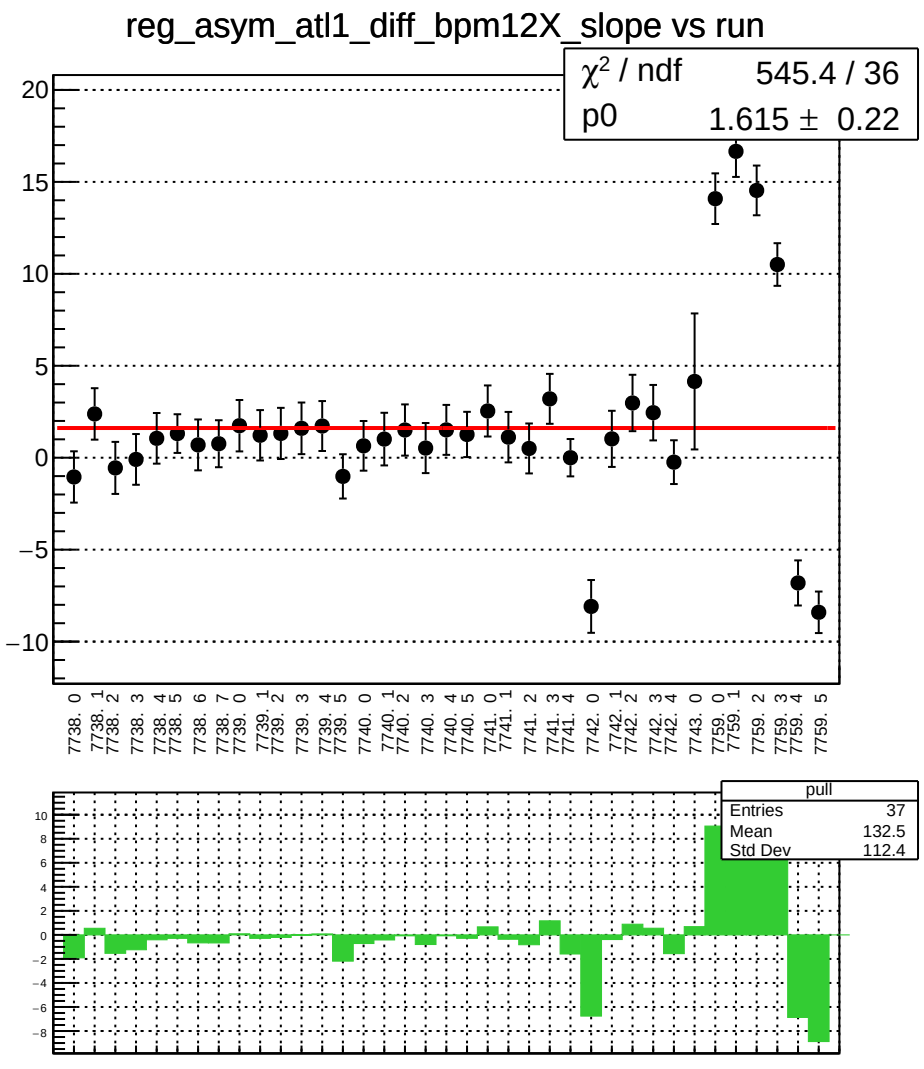

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 23.99 / 36
p0 4.355 ± 3.809
pull
Entries 37
Mean 972.2
Std Dev 957

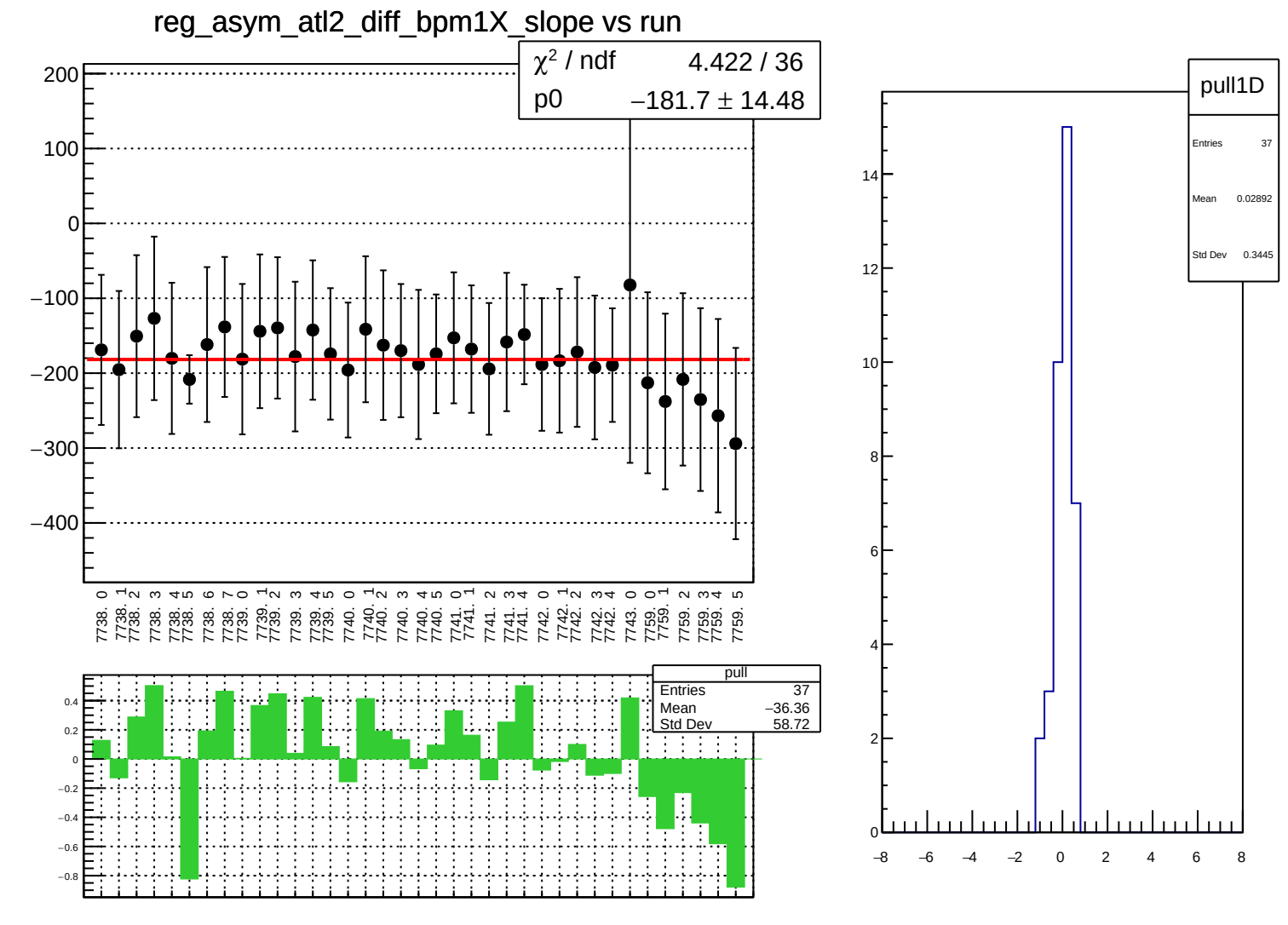

pull1D
Entries 37
Mean −0.002711
Std Dev 0.8052

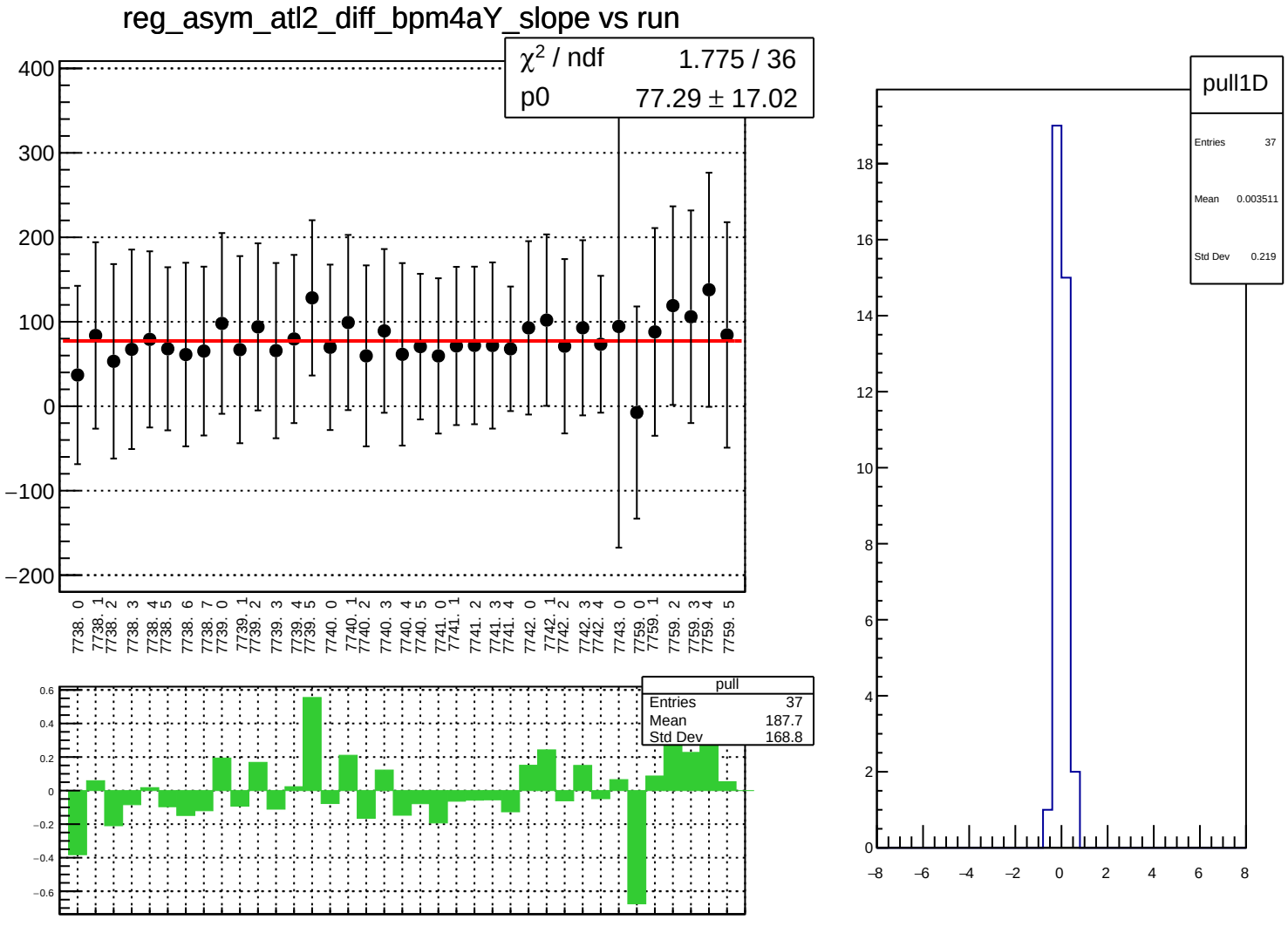

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 51.27 / 36
p0 21.36 ± 3.072
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −13.7
Std Dev 29.15
4
3
2
1
0
−1
−2

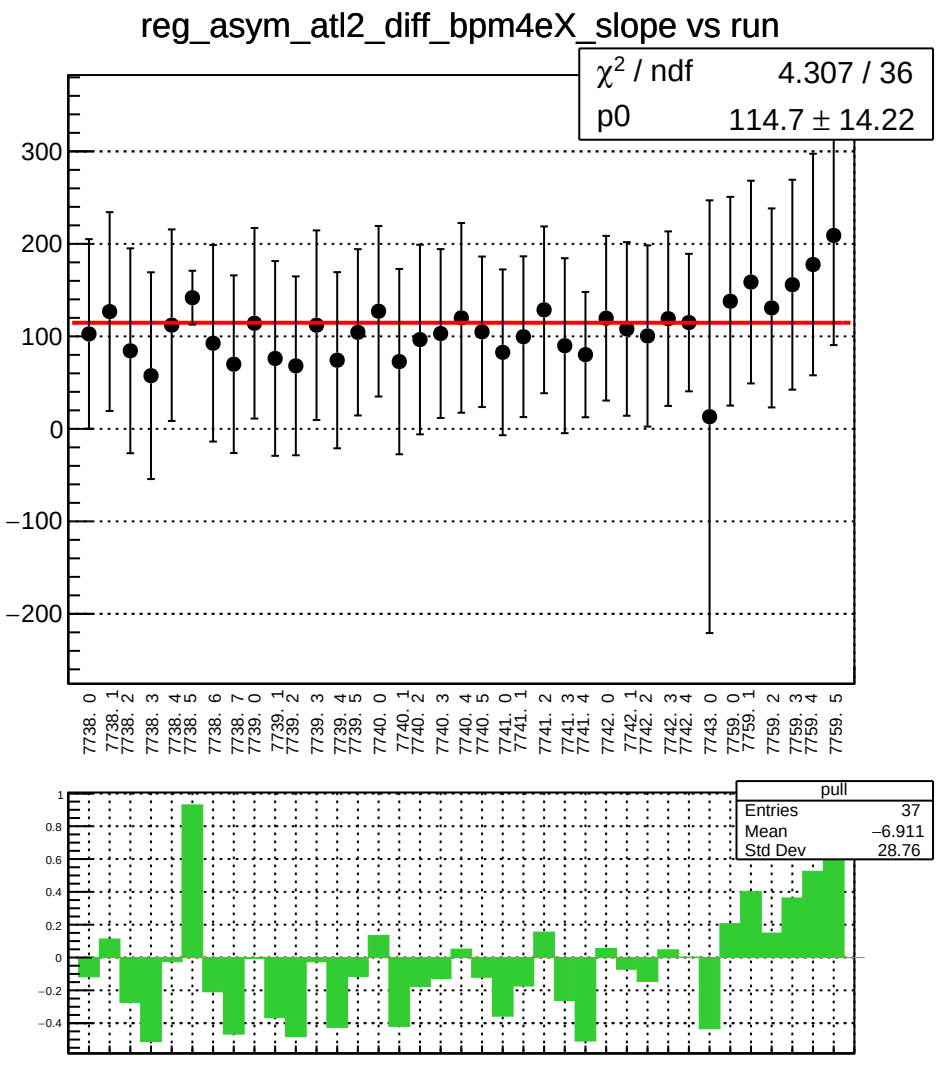

pull1D
Entries 37
Mean −0.03971
Std Dev 1.176
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

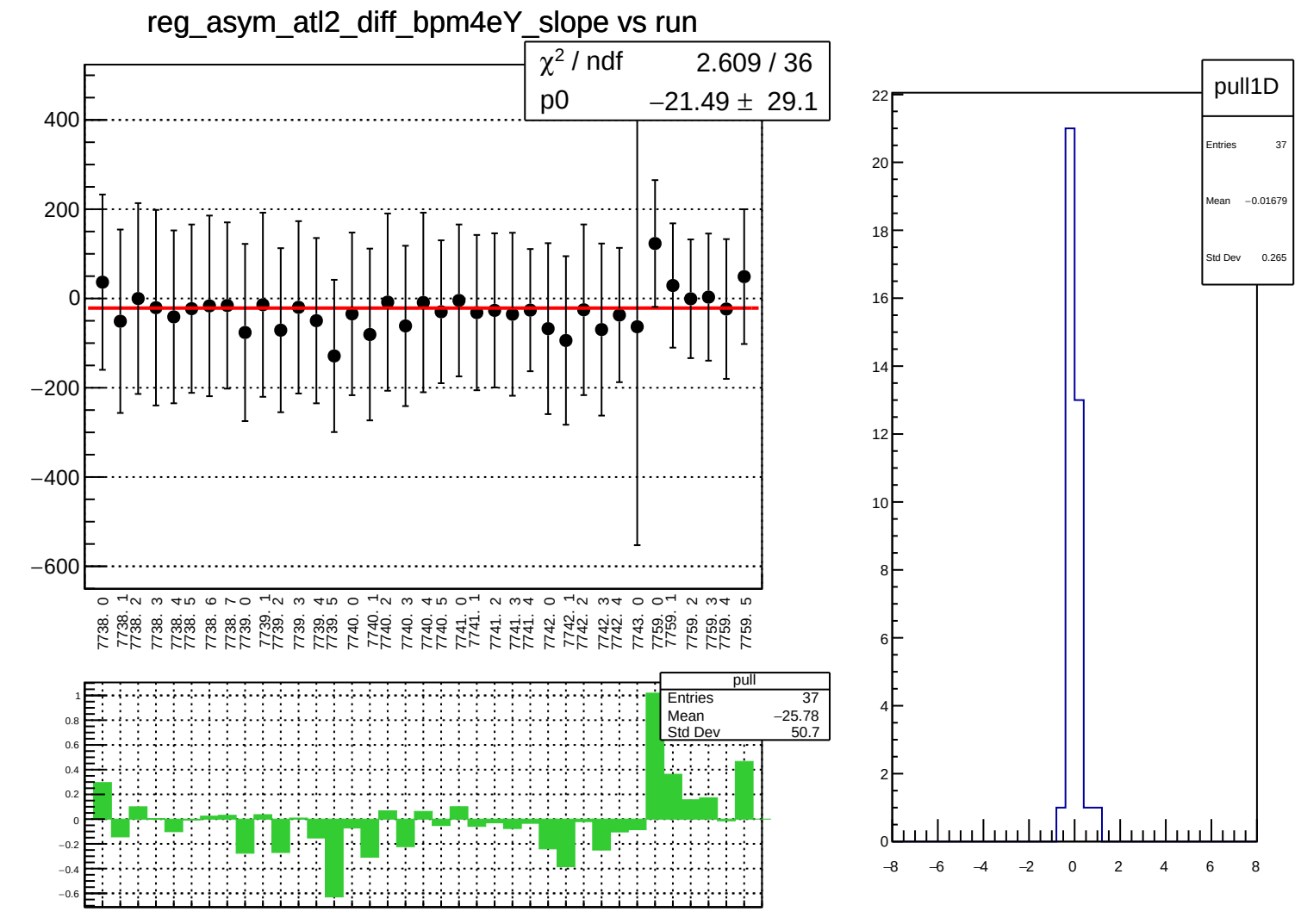

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 25.34 / 36
p0 −5.609 ± 6.78
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −170.8
Std Dev 182.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.009281
Std Dev 0.8274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

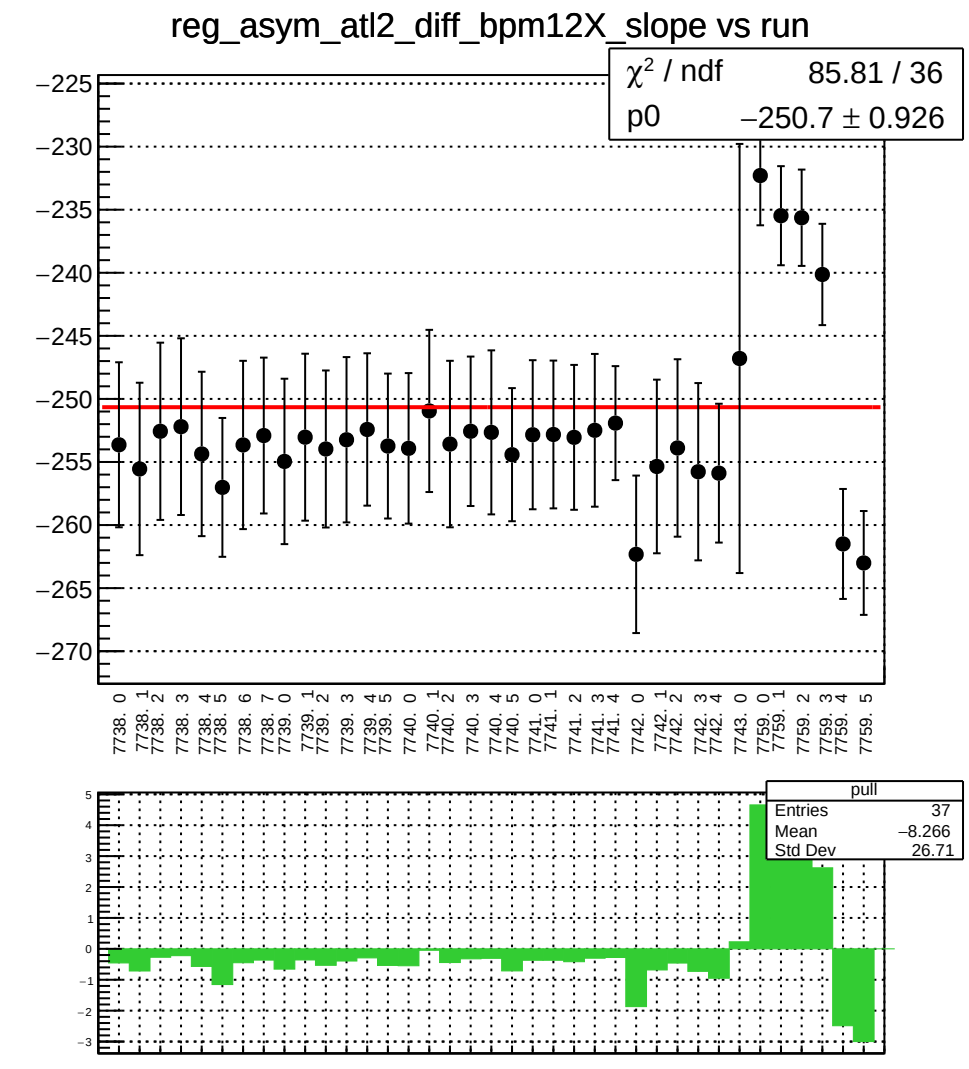

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 545.4 / 36
p0 1.615 ± 0.22
20
15
10
5
0
−5
−10
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 132.5
Std Dev 112.4
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 37
Mean −0.5384
Std Dev 2.247
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

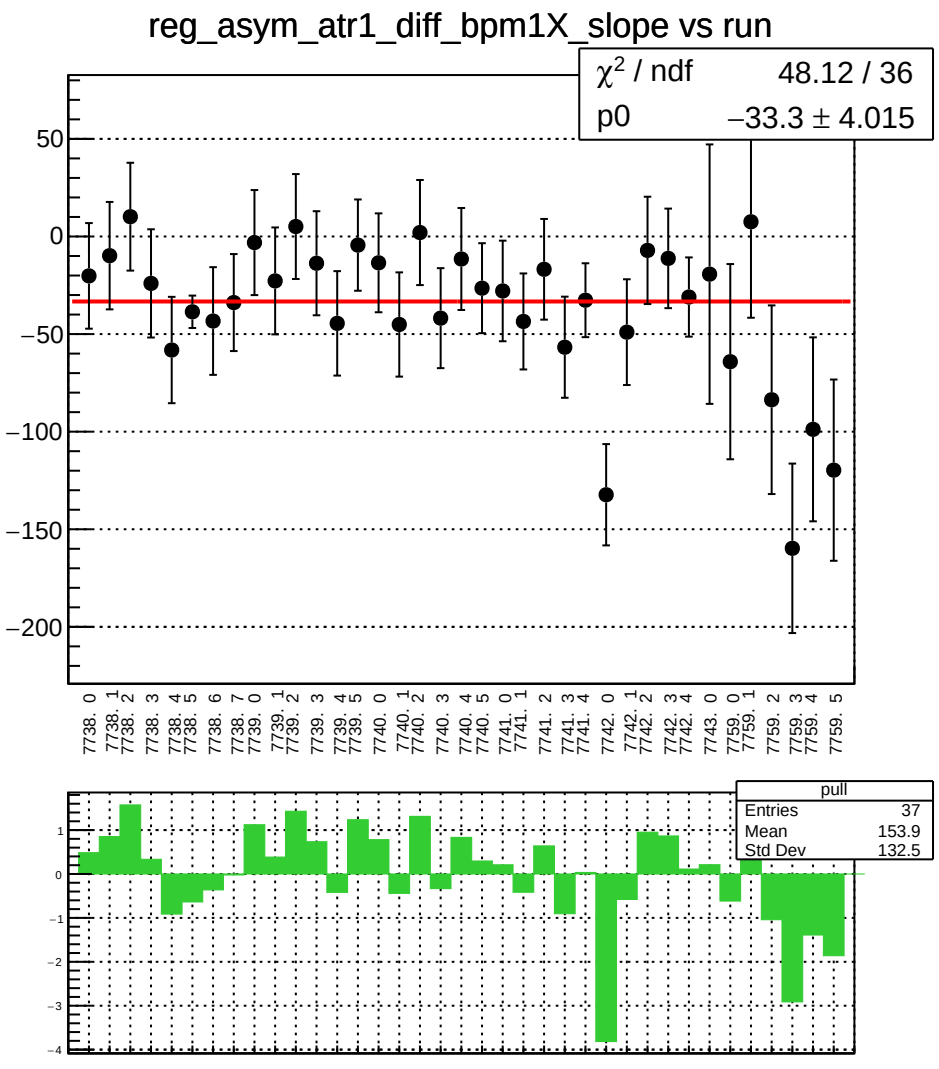

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 4.422 / 36
p0 −181.7 ± 14.48
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −36.36
Std Dev 58.72
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean 0.02892
Std Dev 0.3445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

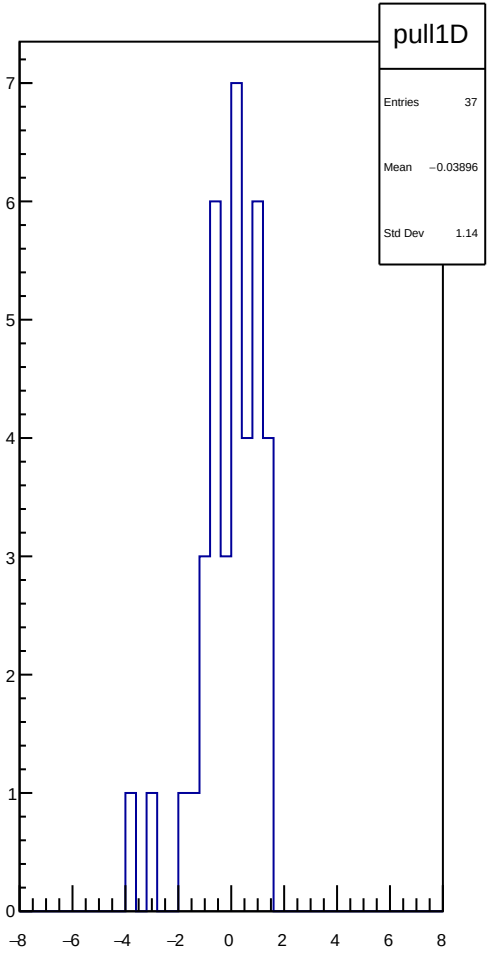

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 1.775 / 36
p0 77.29 ± 17.02
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 187.7
Std Dev 168.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.003511
Std Dev 0.219
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

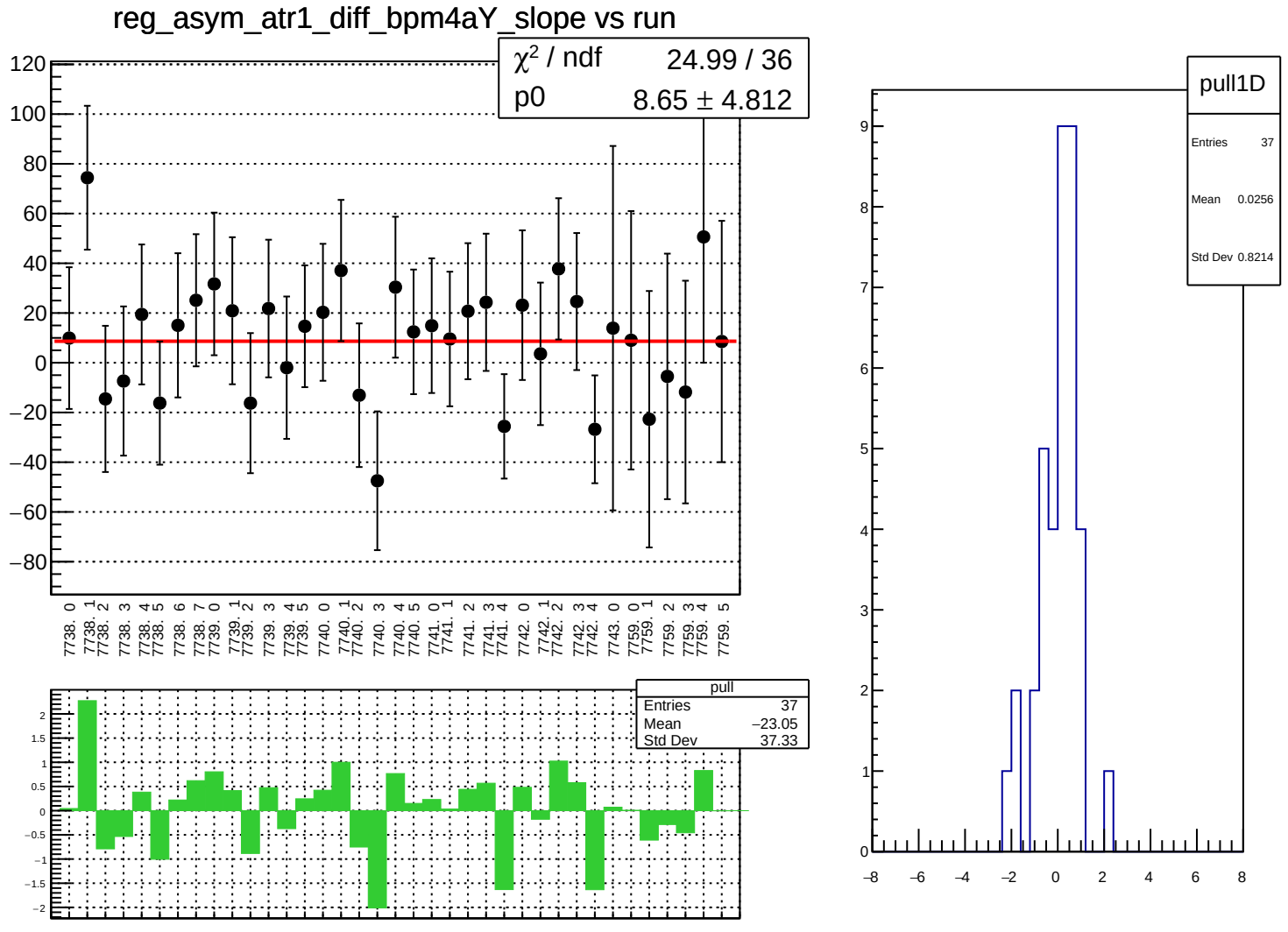

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 4.307 / 36
p0 114.7 ± 14.22
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −6.911
Std Dev 28.76
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean −0.05124
Std Dev 0.3373
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

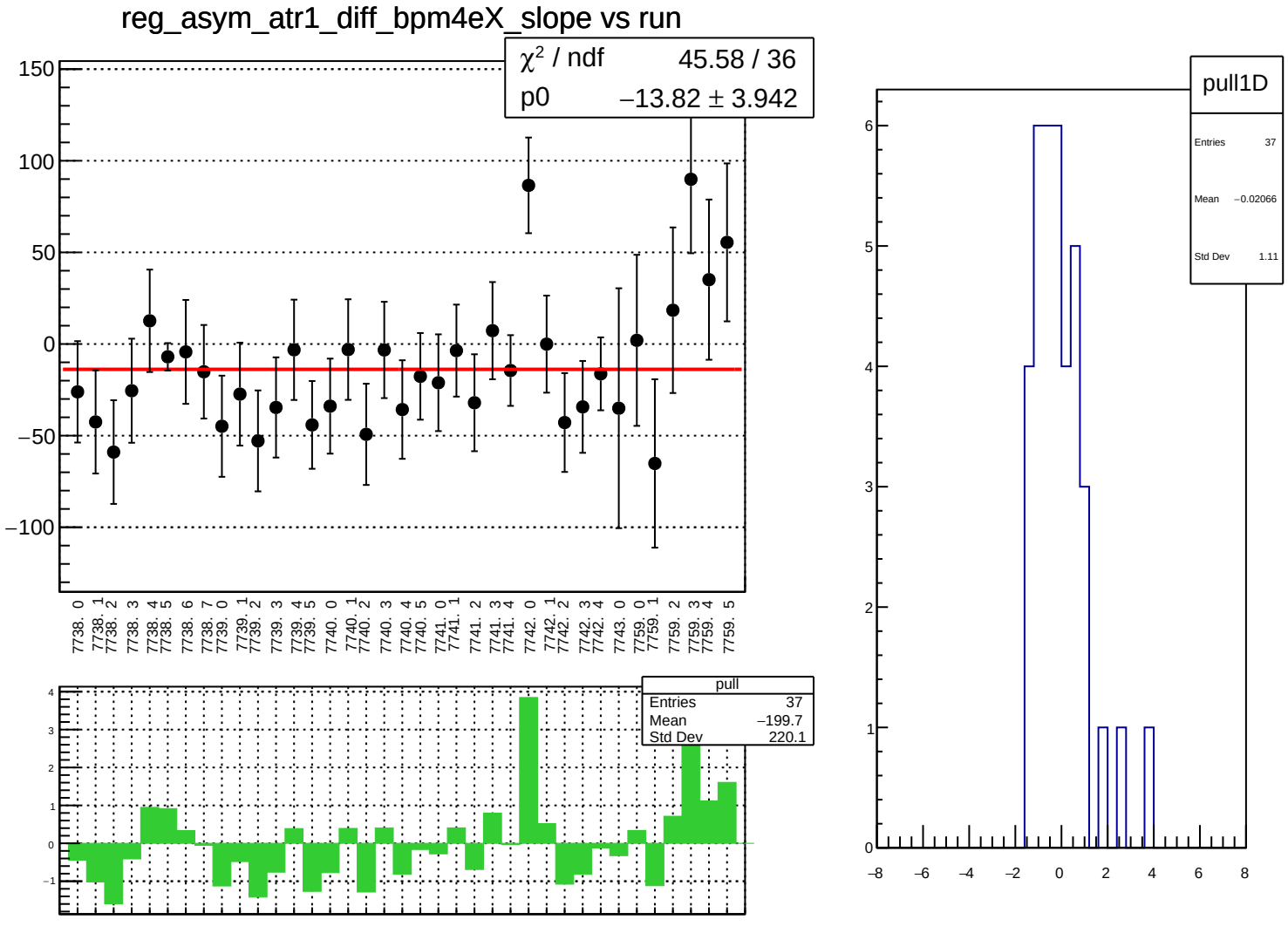

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.609 / 36
p0 −21.49 ± 29.1
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −25.78
Std Dev 50.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.01679
Std Dev 0.265
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

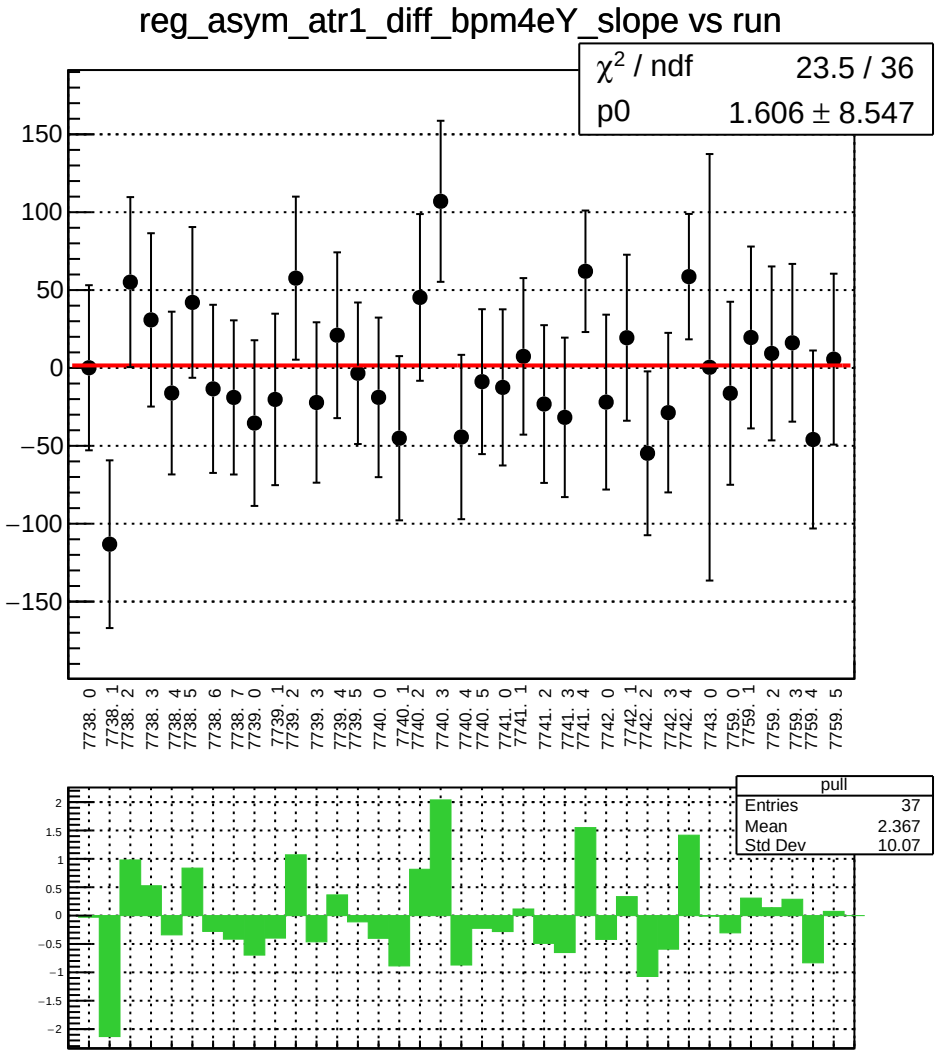

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 85.81 / 36
p0 −250.7 ± 0.926
pull
Entries 37
Mean −8.266
Std Dev 26.71
pull1D
Entries 37
Mean −0.1609
Std Dev 1.514

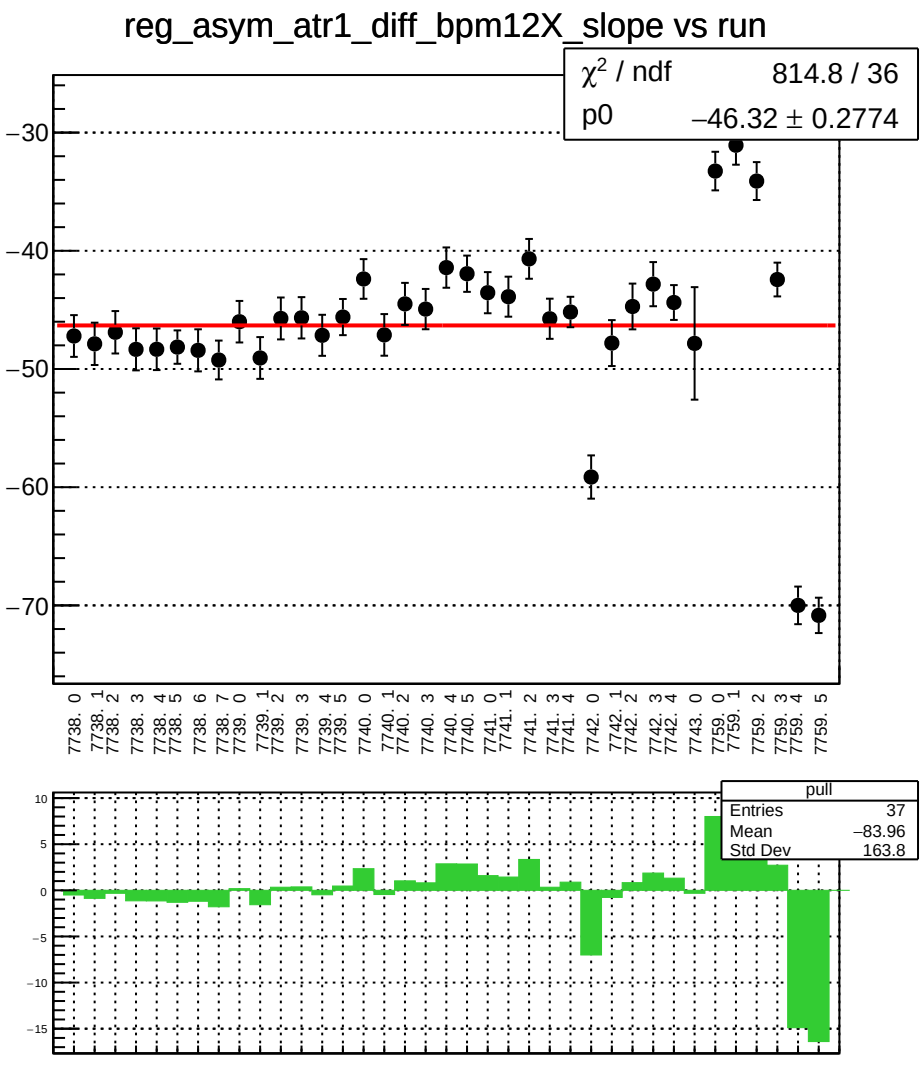

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 48.12 / 36
p0 −33.3 ± 4.015
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 153.9
Std Dev 132.5
1
0
−1
−2
−3
−4

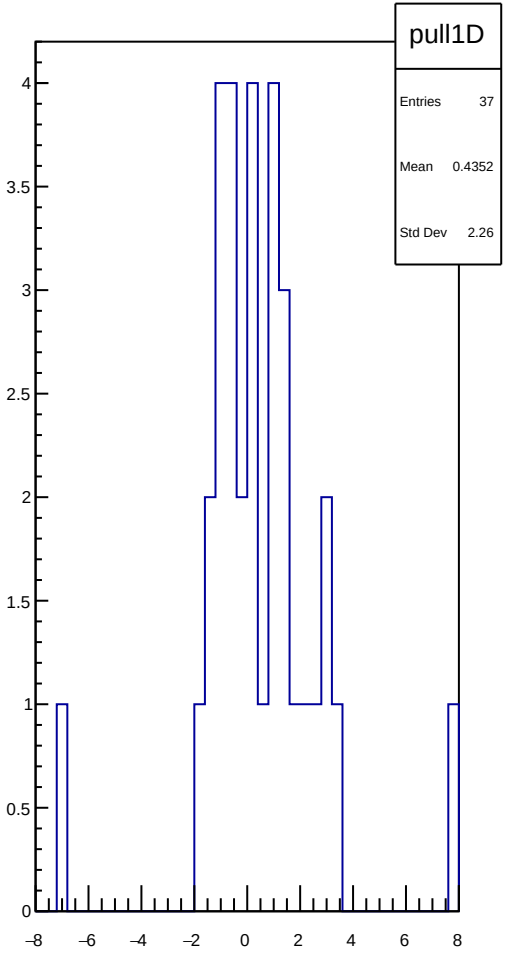

pull1D
Entries 37
Mean −0.03896
Std Dev 1.14
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

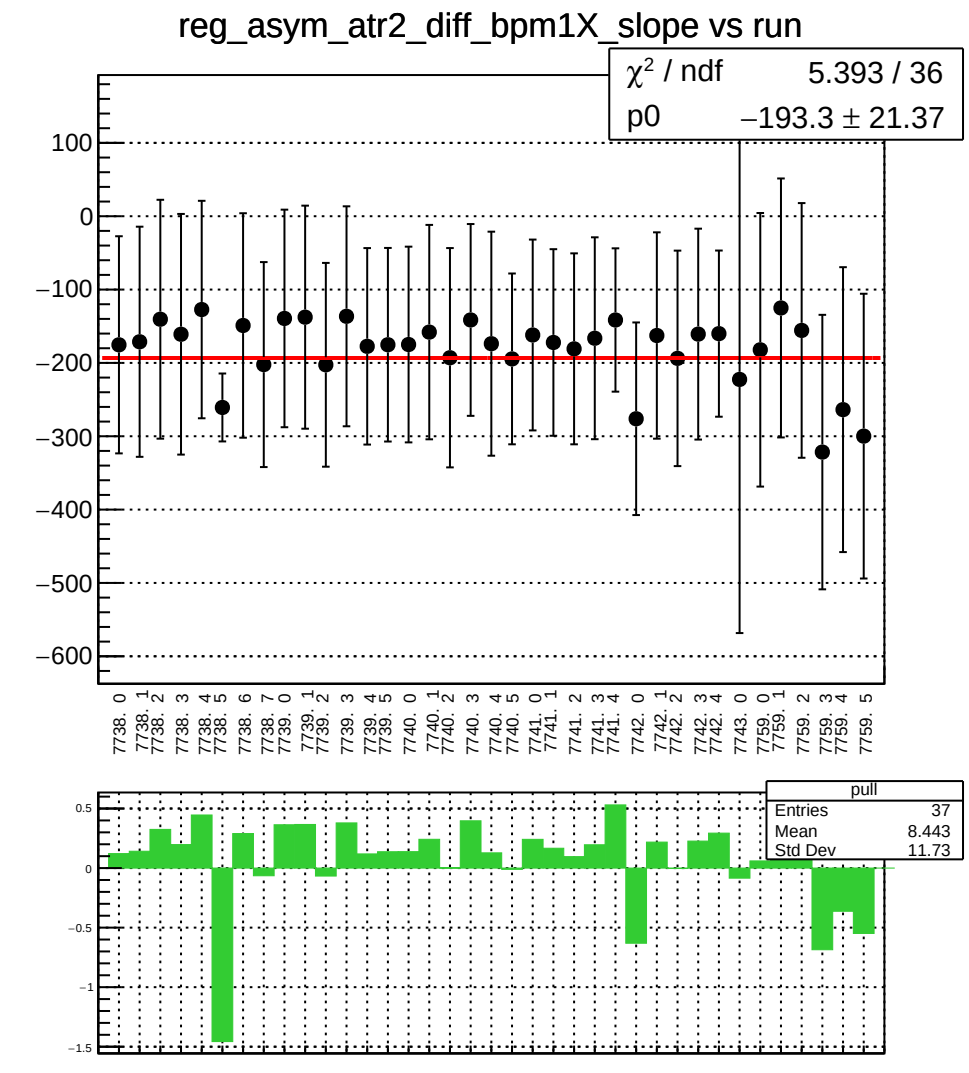

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 24.99 / 36
p0 8.65 ± 4.812
pull
Entries 37
Mean −23.05
Std Dev 37.33
pull1D
Entries 37
Mean 0.0256
Std Dev 0.8214

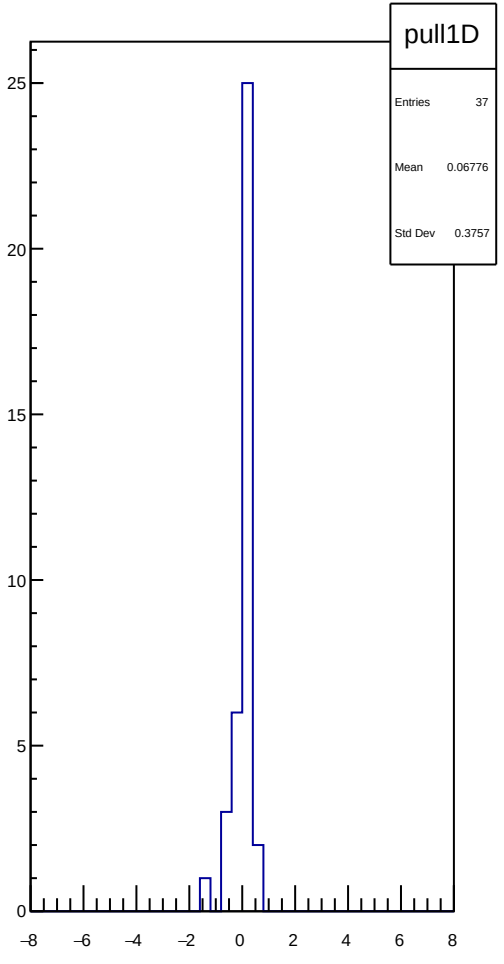

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 45.58 / 36
p0 −13.82 ± 3.942
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −199.7
Std Dev 220.1
4
3
2
1
0
−1
pull1D
Entries 37
Mean −0.02066
Std Dev 1.11
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

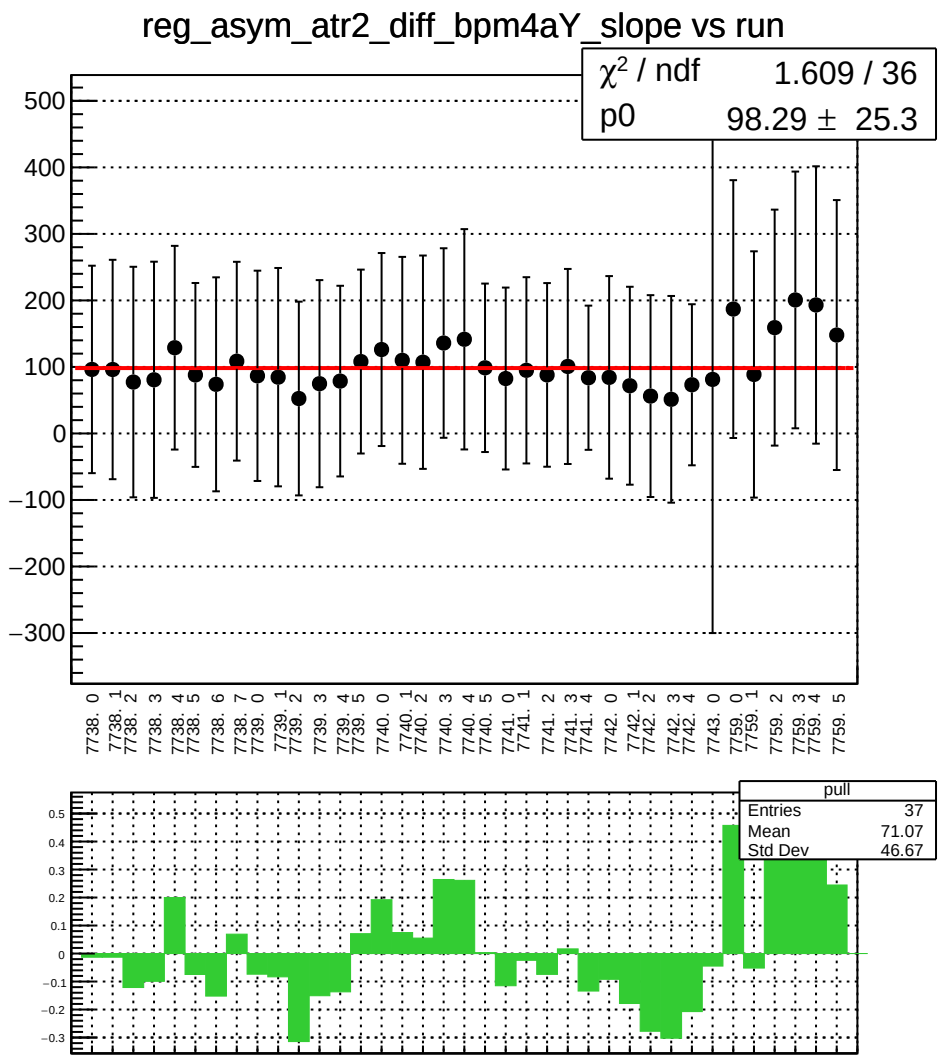

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 23.5 / 36
p0 1.606 ± 8.547
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.367
Std Dev 10.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.02782
Std Dev 0.7965
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

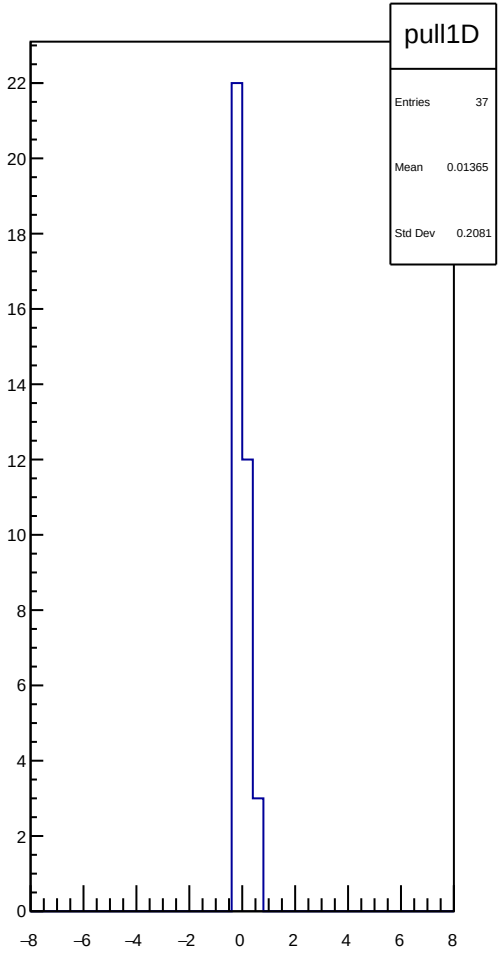

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 814.8 / 36
p0 −46.32 ± 0.2774
−30
−40
−50
−60
−70
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −83.96
Std Dev 163.8
10
5
0
−5
−10
−15

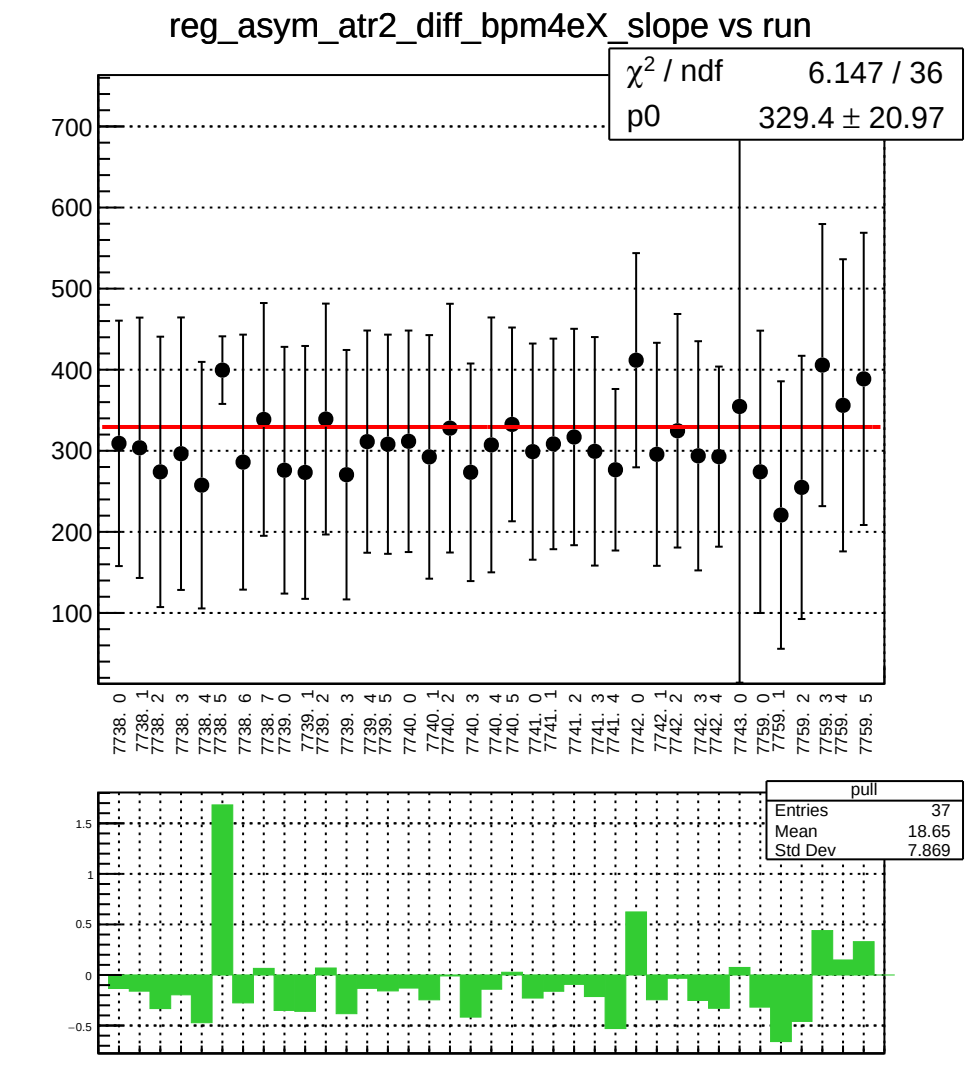

pull1D
Entries 37
Mean 0.4352
Std Dev 2.26
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

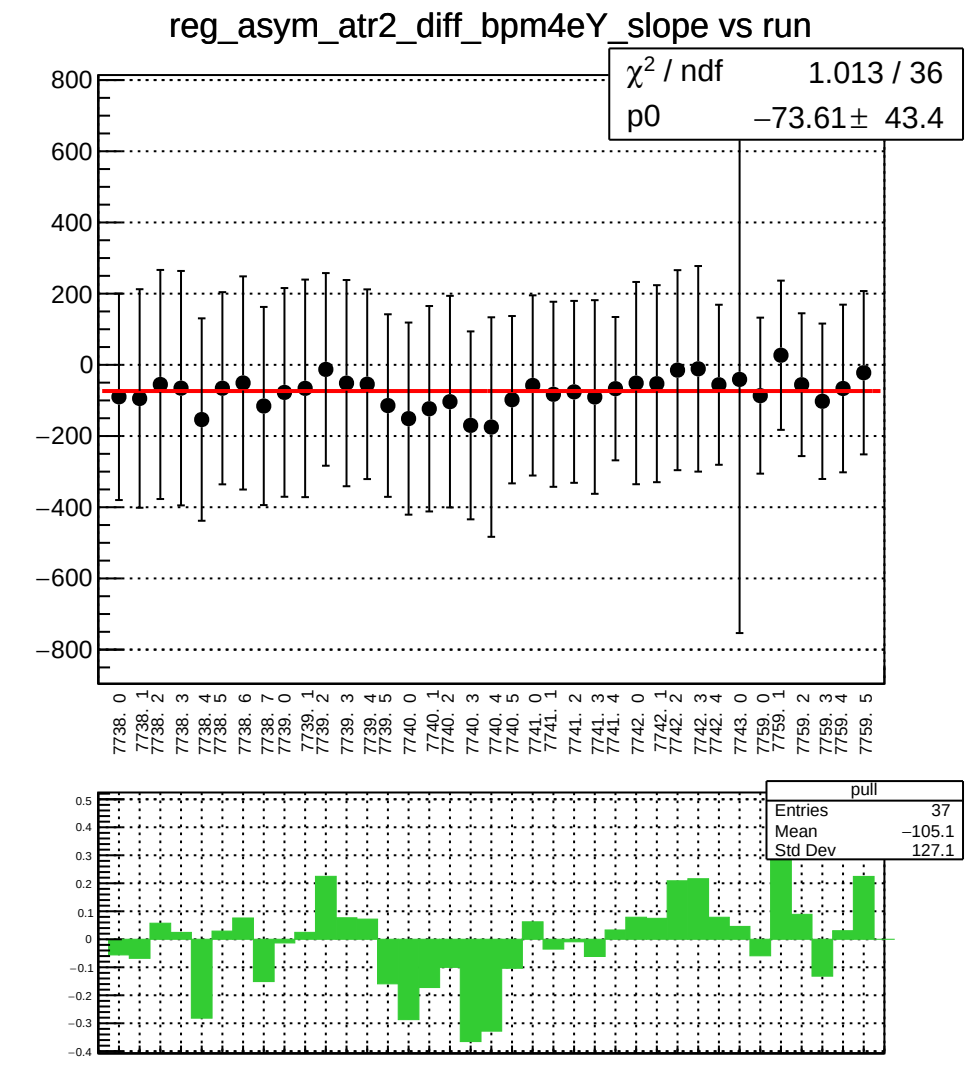

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 5.393 / 36
p0 −193.3 ± 21.37
100
0
−100
−200
−300
−400
−500
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.443
Std Dev 11.73
0.5
0
−0.5
−1
−1.5

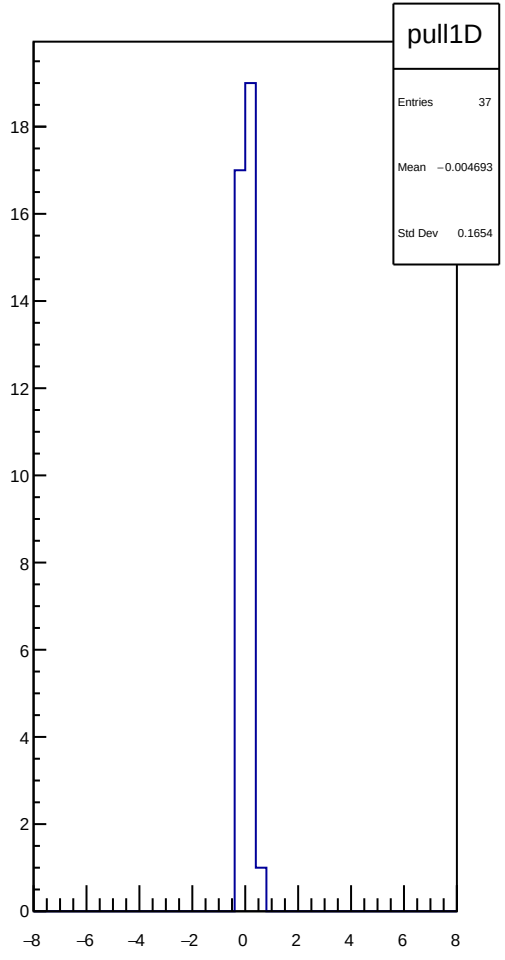

pull1D
Entries 37
Mean 0.06776
Std Dev 0.3757
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

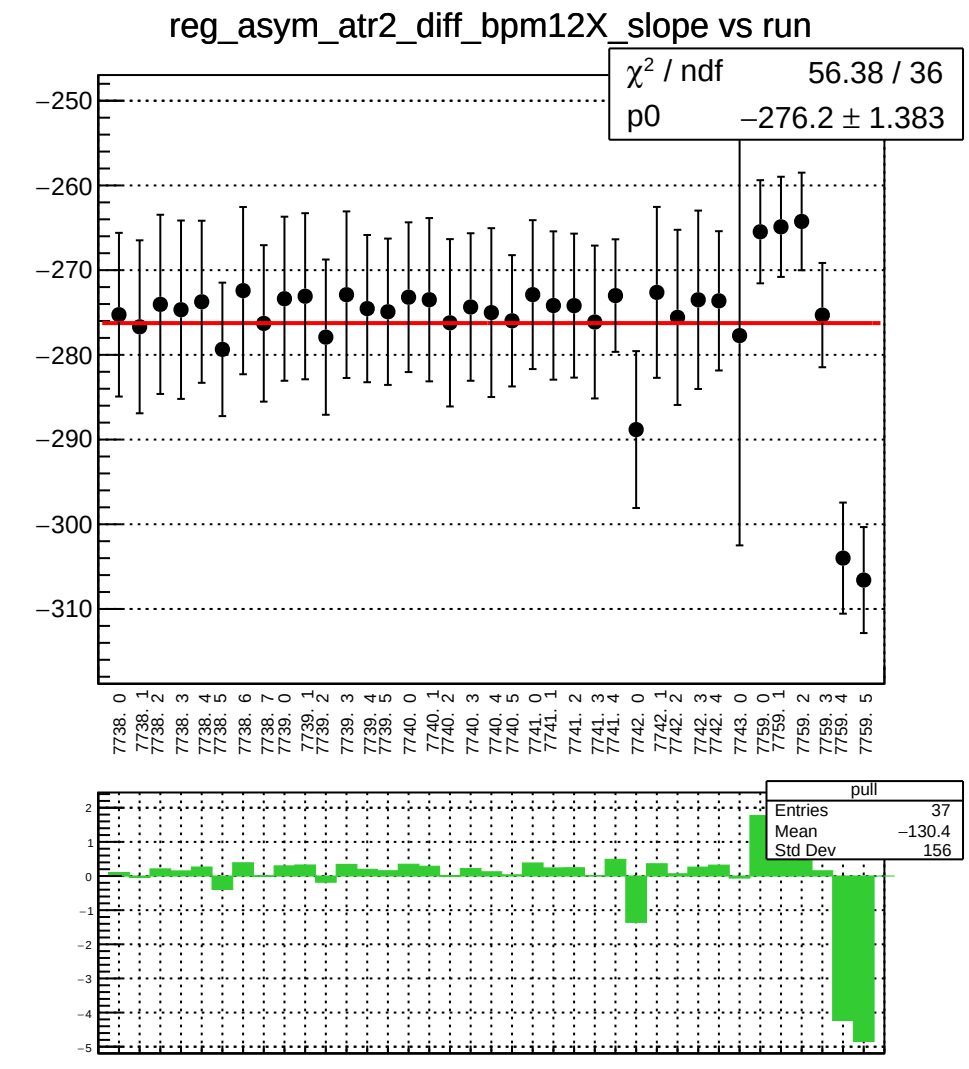

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 1.609 / 36
p0 98.29 ± 25.3
pull
Entries 37
Mean 71.07
Std Dev 46.67

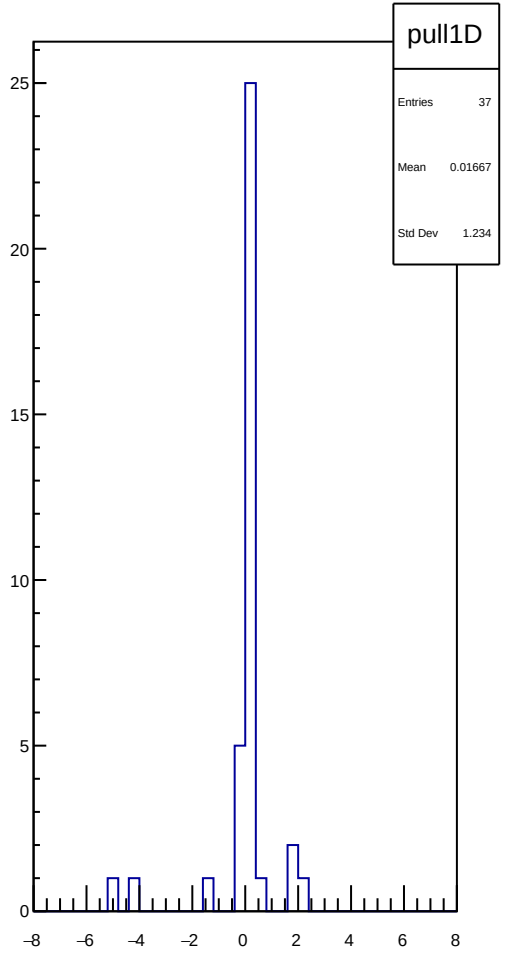

pull1D
Entries 37
Mean 0.01365
Std Dev 0.2081

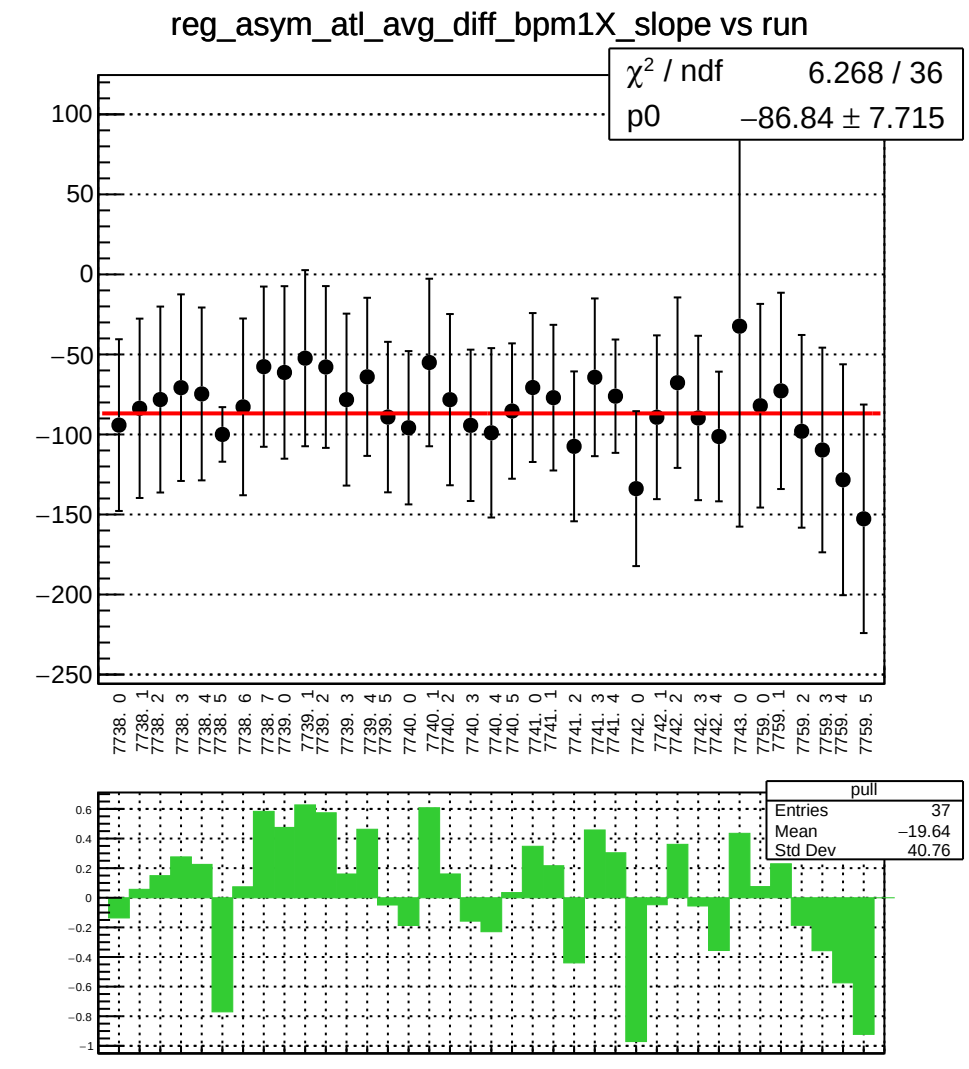

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 6.147 / 36
p0 329.4 ± 20.97
700
600
500
400
300
200
100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.65
Std Dev 7.869
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.1068
Std Dev 0.3934
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

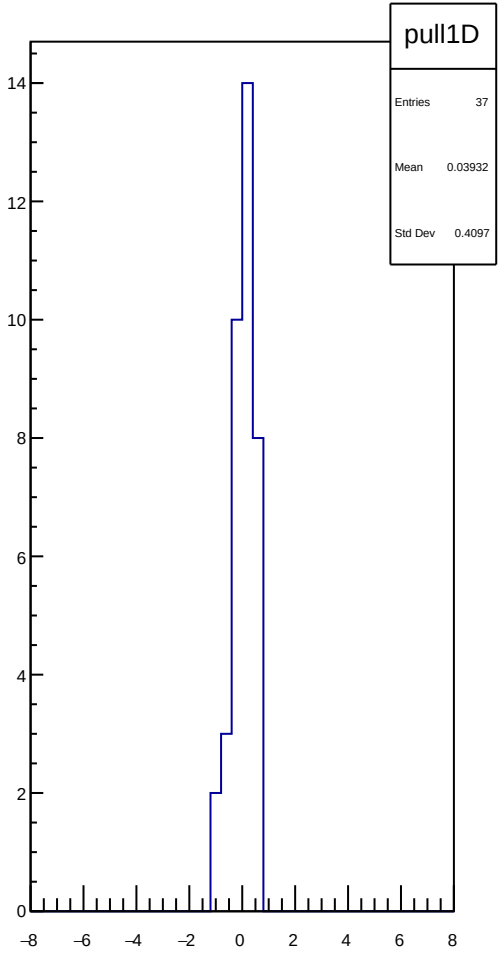

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 1.013 / 36
p0 −73.61± 43.4
pull
Entries 37
Mean −105.1
Std Dev 127.1

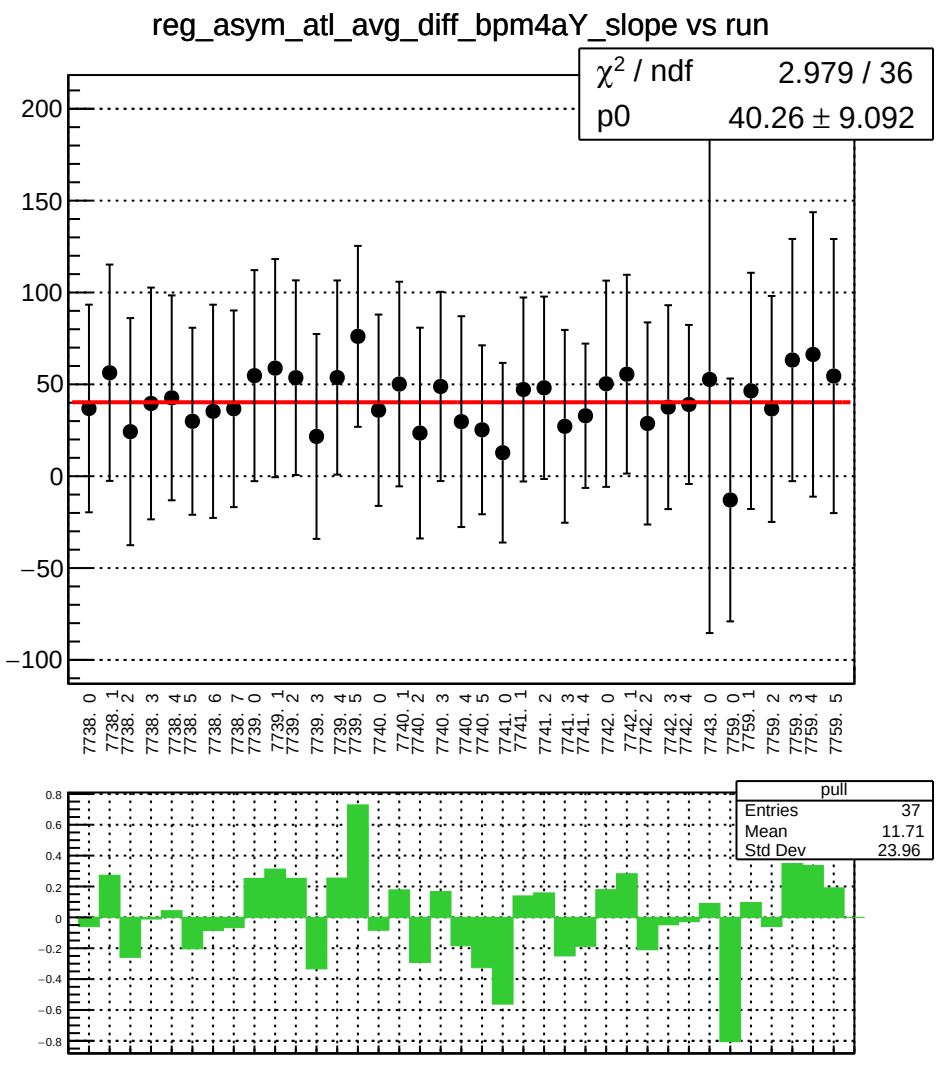

pull1D
Entries 37
Mean −0.004693
Std Dev 0.1654

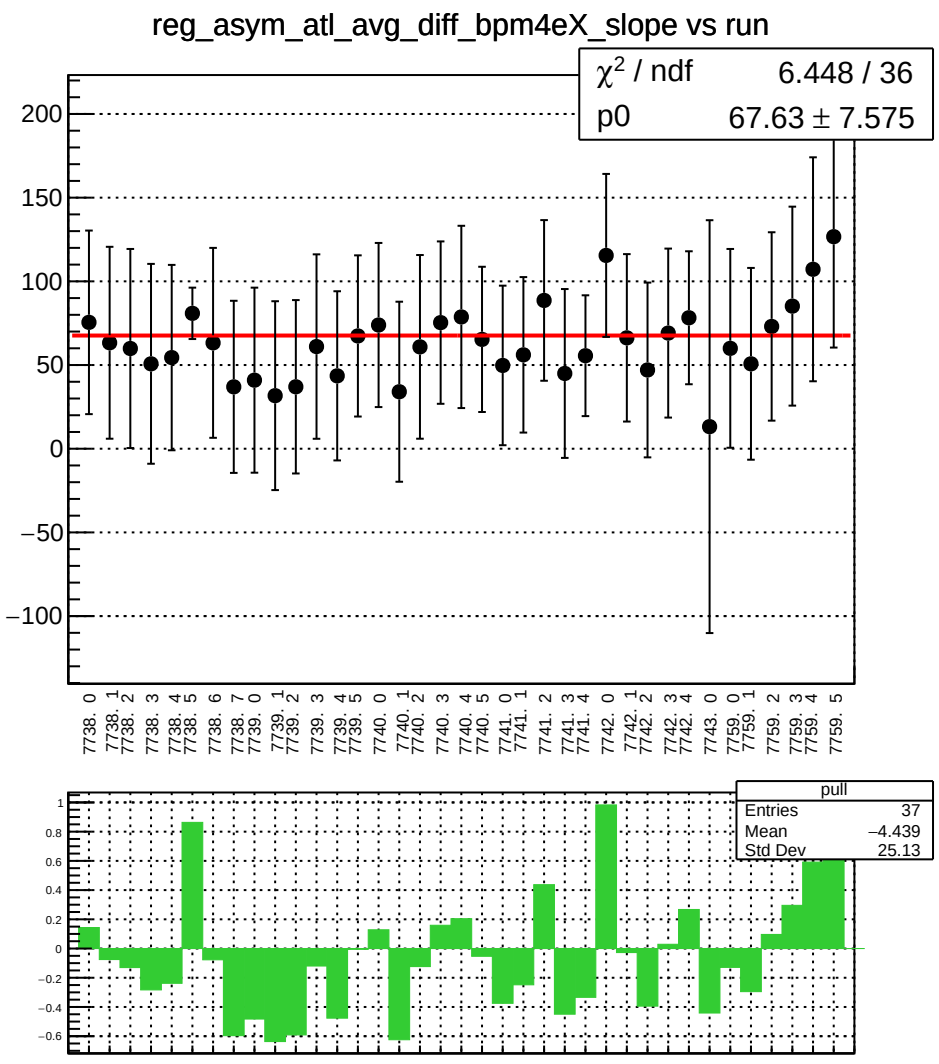

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 56.38 / 36
p0 −276.2 ± 1.383
−250
−260
−270
−280
−290
−300
−310
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −130.4
Std Dev 156
2
1
0
−1
−2
−3
−4
−5

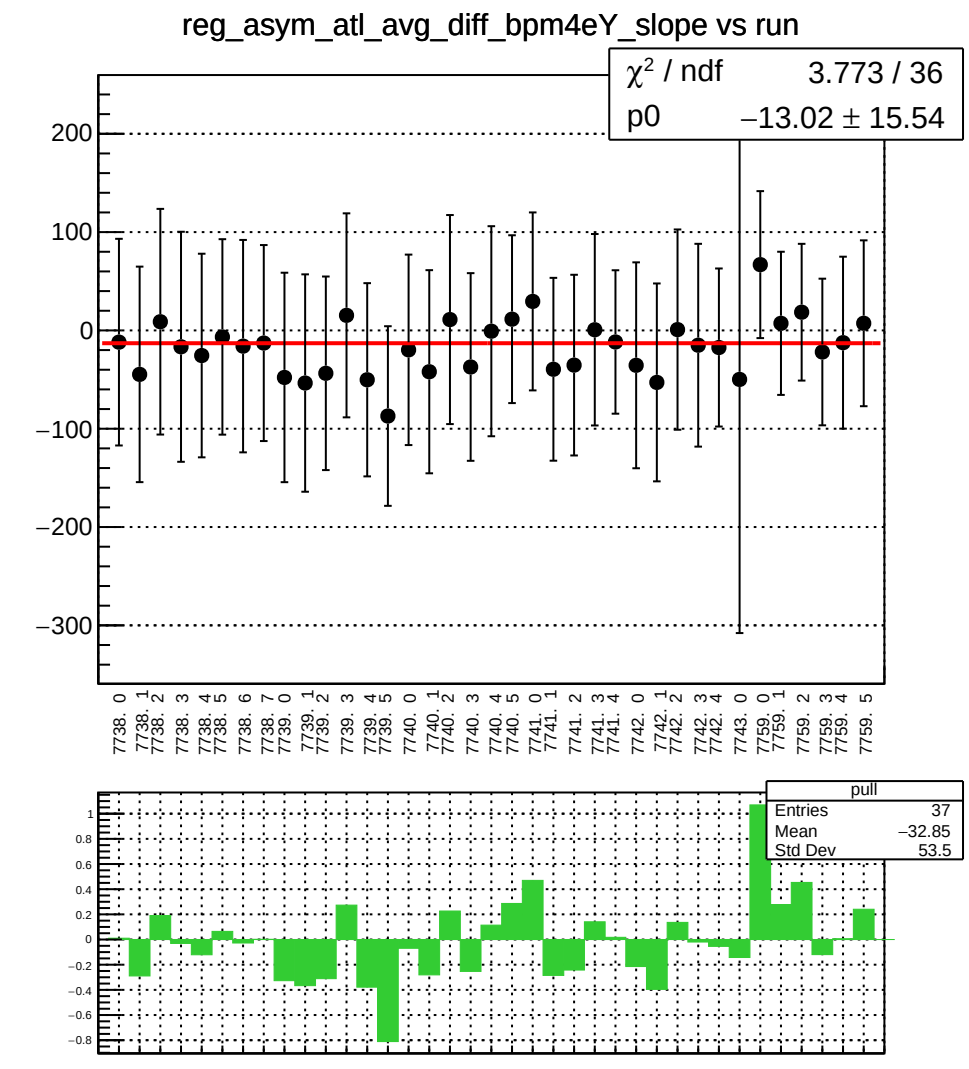

pull1D
Entries 37
Mean 0.01667
Std Dev 1.234
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

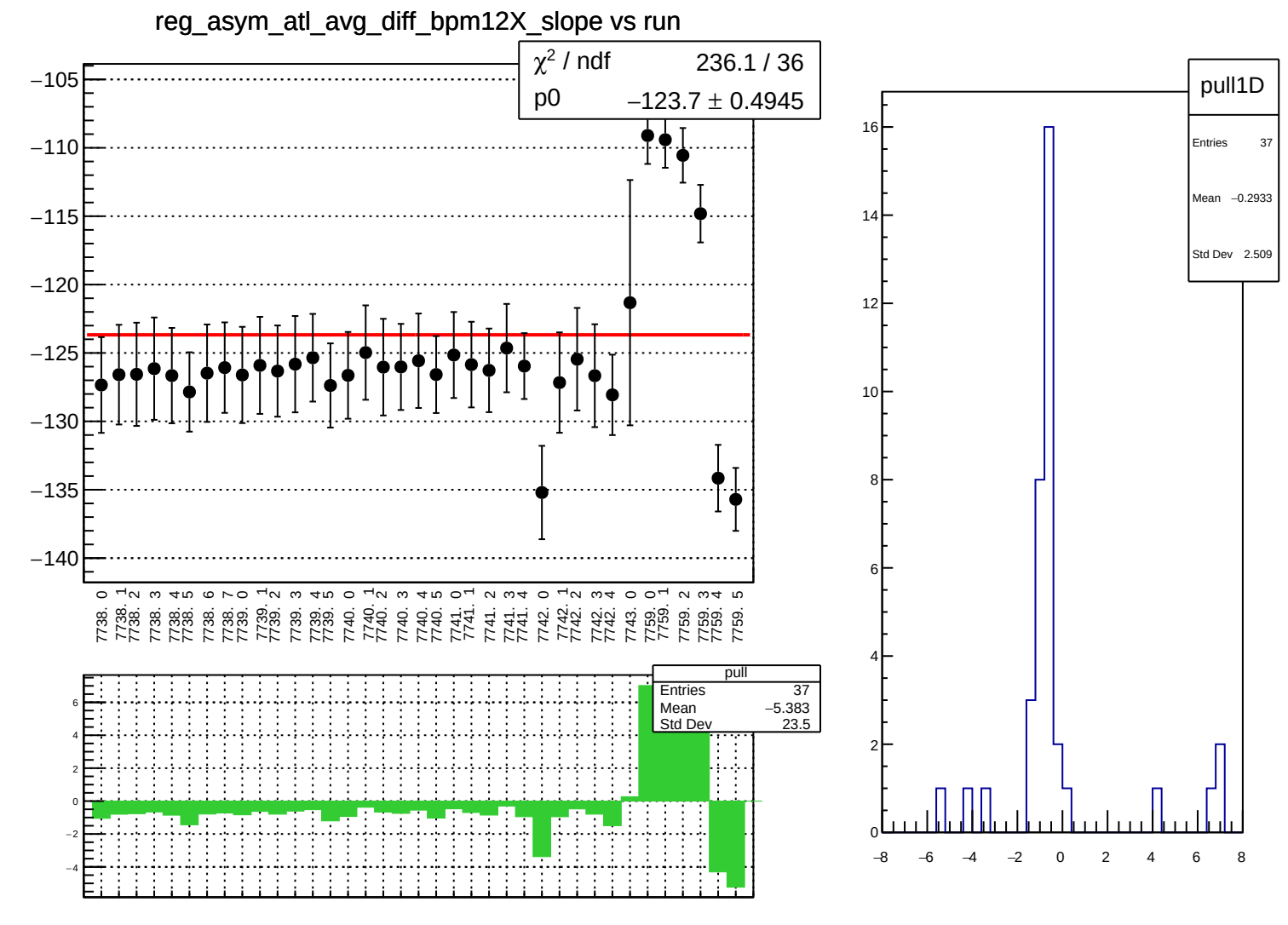

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 6.268 / 36
p0 −86.84 ± 7.715
pull
Entries 37
Mean −19.64
Std Dev 40.76

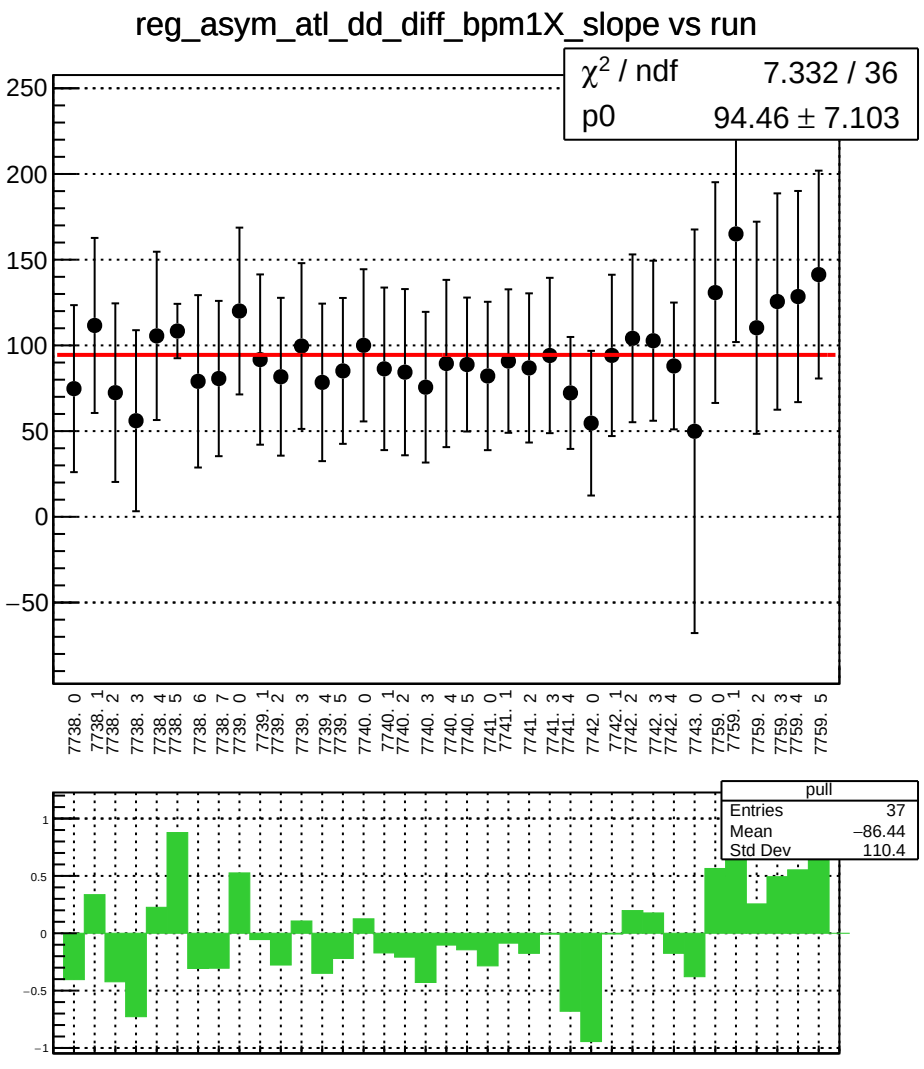

pull1D
Entries 37
Mean 0.03932
Std Dev 0.4097

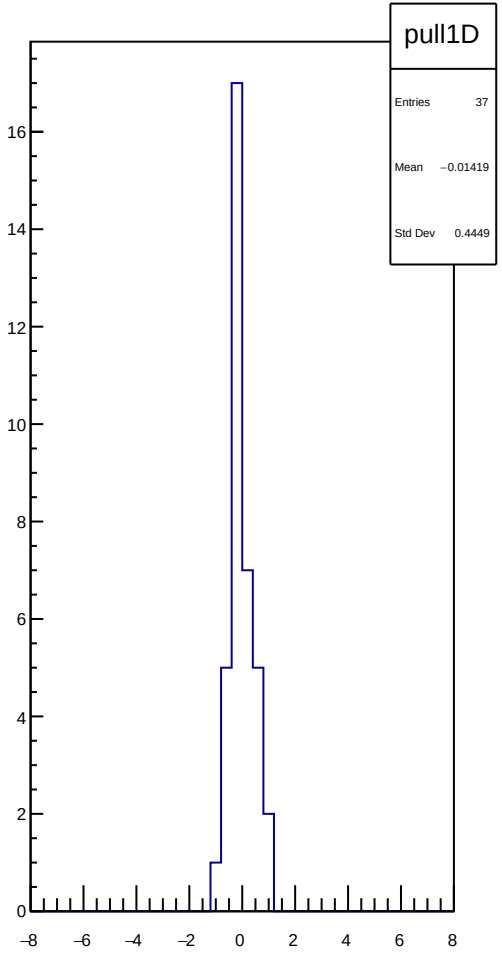

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.979 / 36
p0 40.26 ± 9.092
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 11.71
Std Dev 23.96
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean 0.006196
Std Dev 0.2837
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

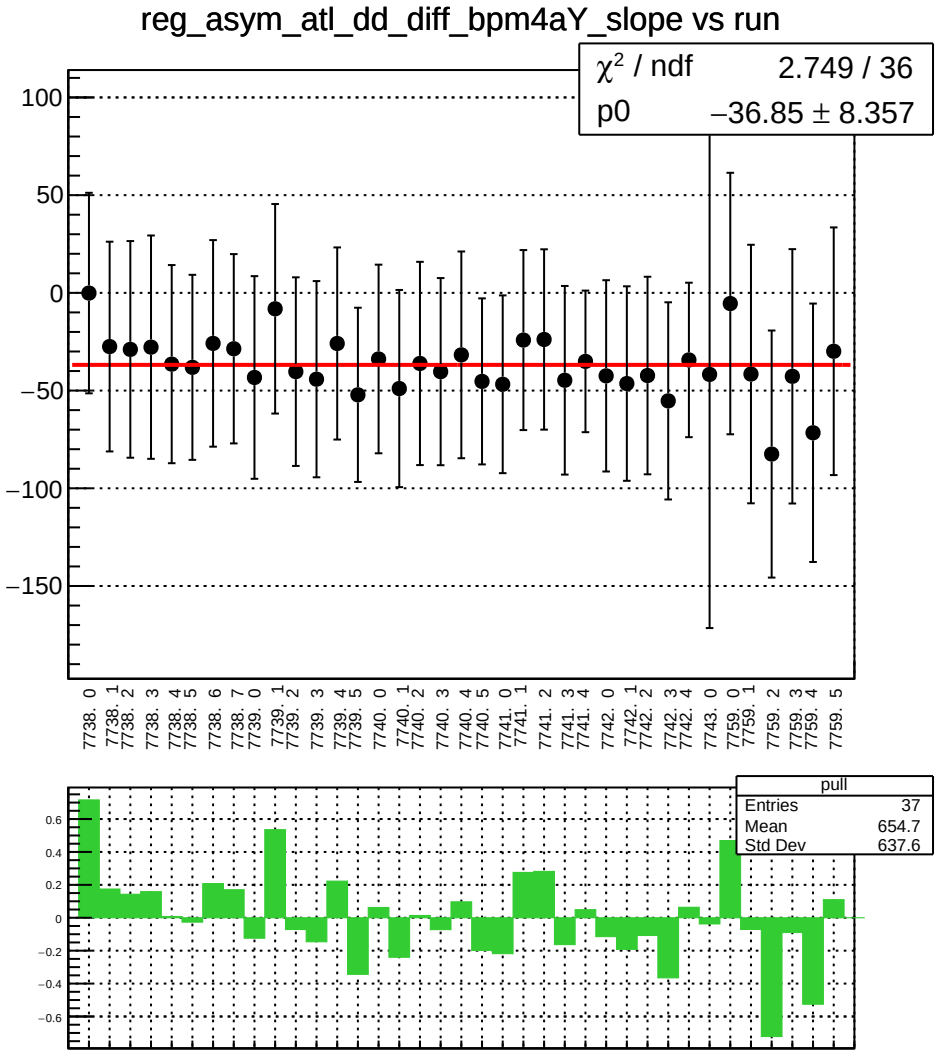

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.448 / 36
p0 67.63 ± 7.575
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −4.439
Std Dev 25.13
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.05719
Std Dev 0.4135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

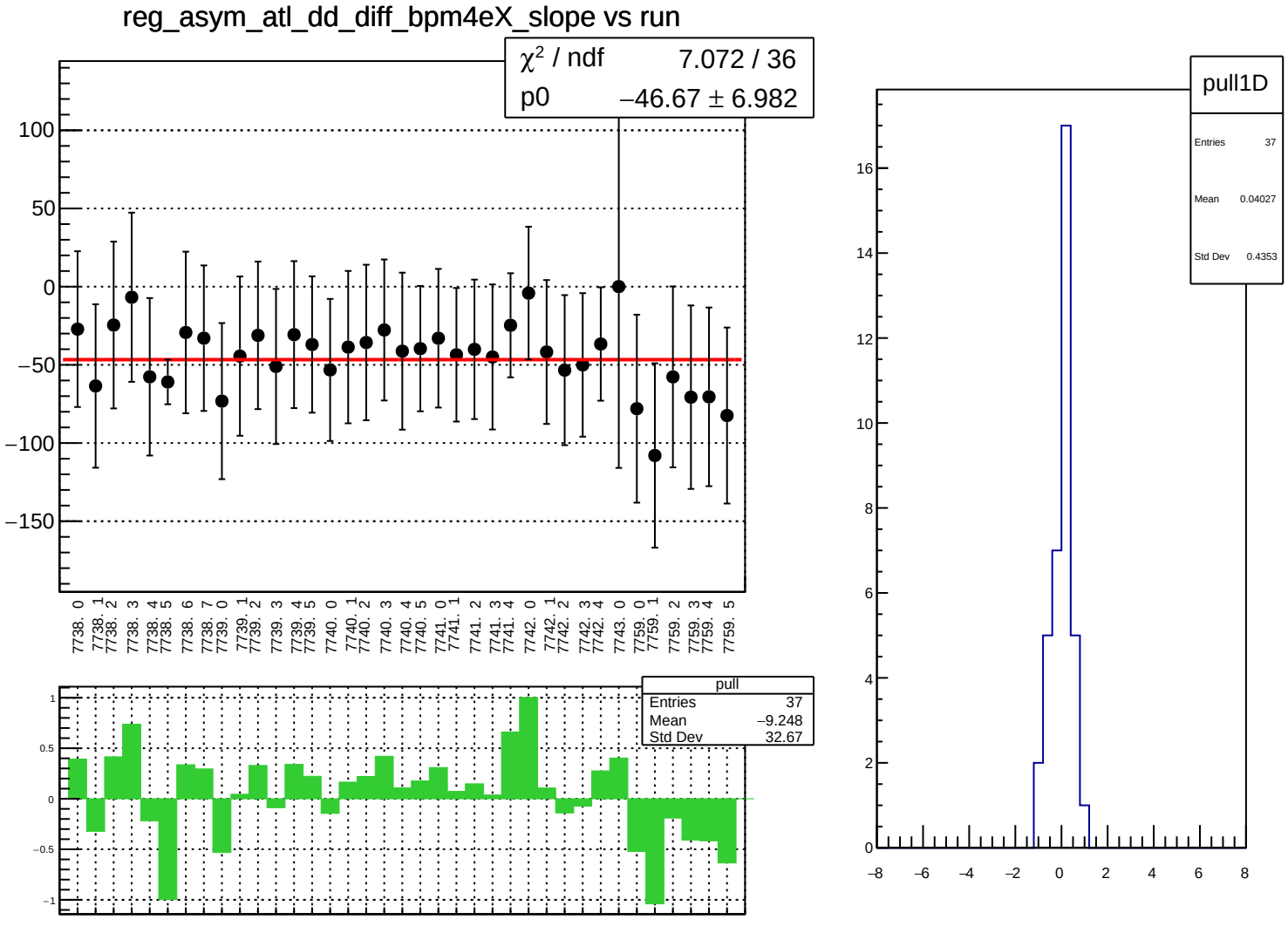

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.773 / 36
p0 −13.02 ± 15.54
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −32.85
Std Dev 53.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean −0.02056
Std Dev 0.3187
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

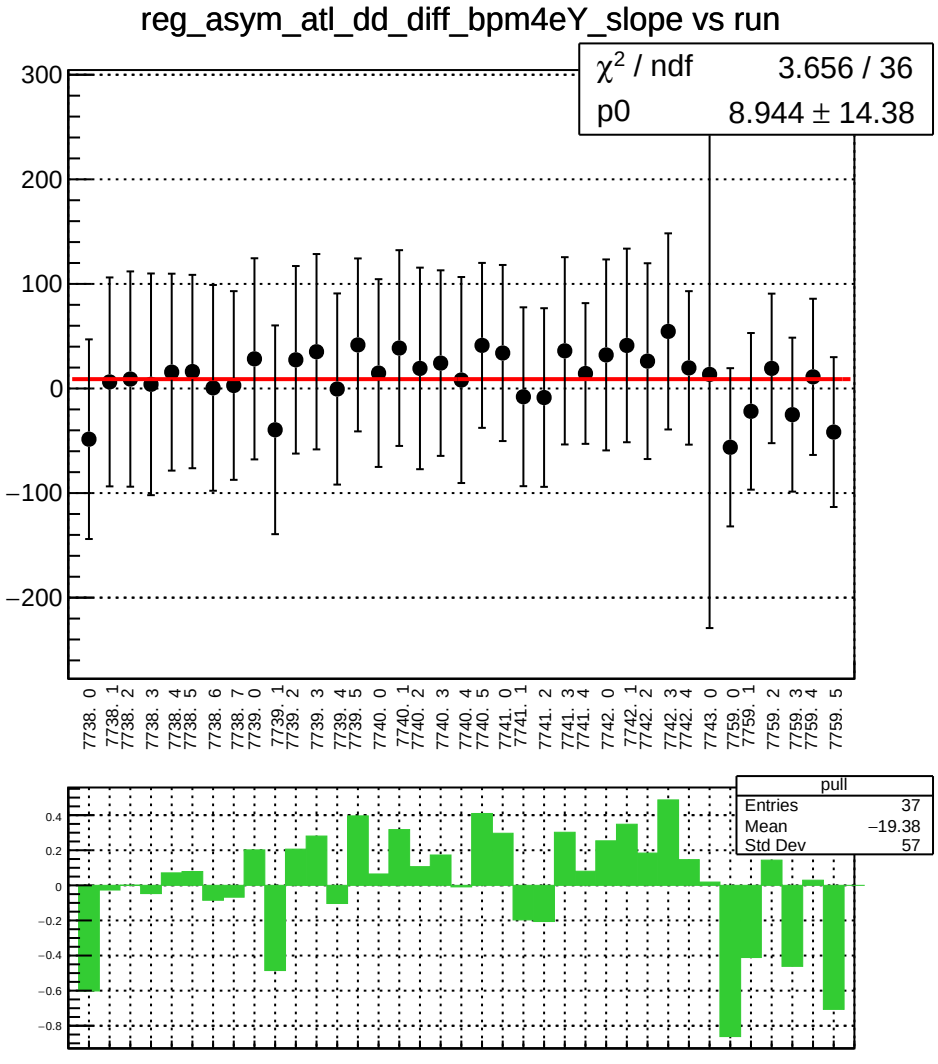

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 236.1 / 36
p0 −123.7 ± 0.4945
pull
Entries 37
Mean −5.383
Std Dev 23.5
pull1D
Entries 37
Mean −0.2933
Std Dev 2.509

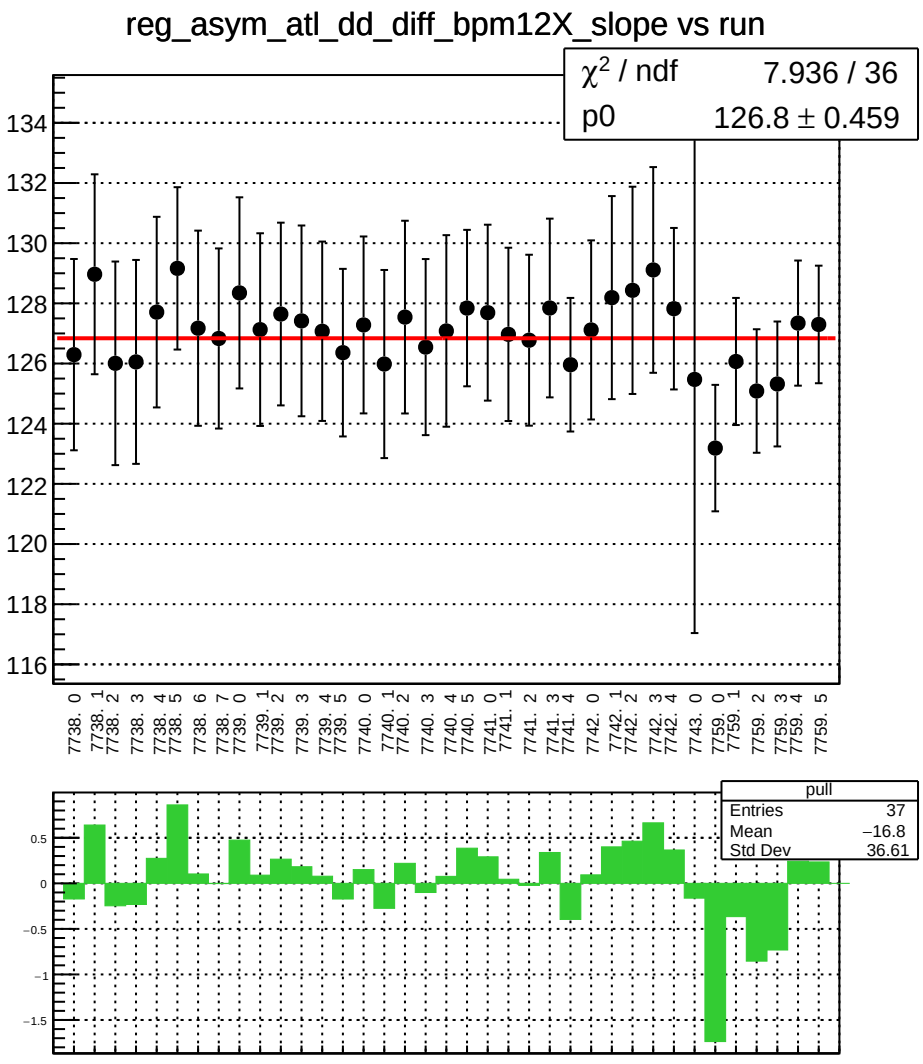

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 7.332 / 36
p0 94.46 ± 7.103
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −86.44
Std Dev 110.4
1
0.5
0
−0.5
−1

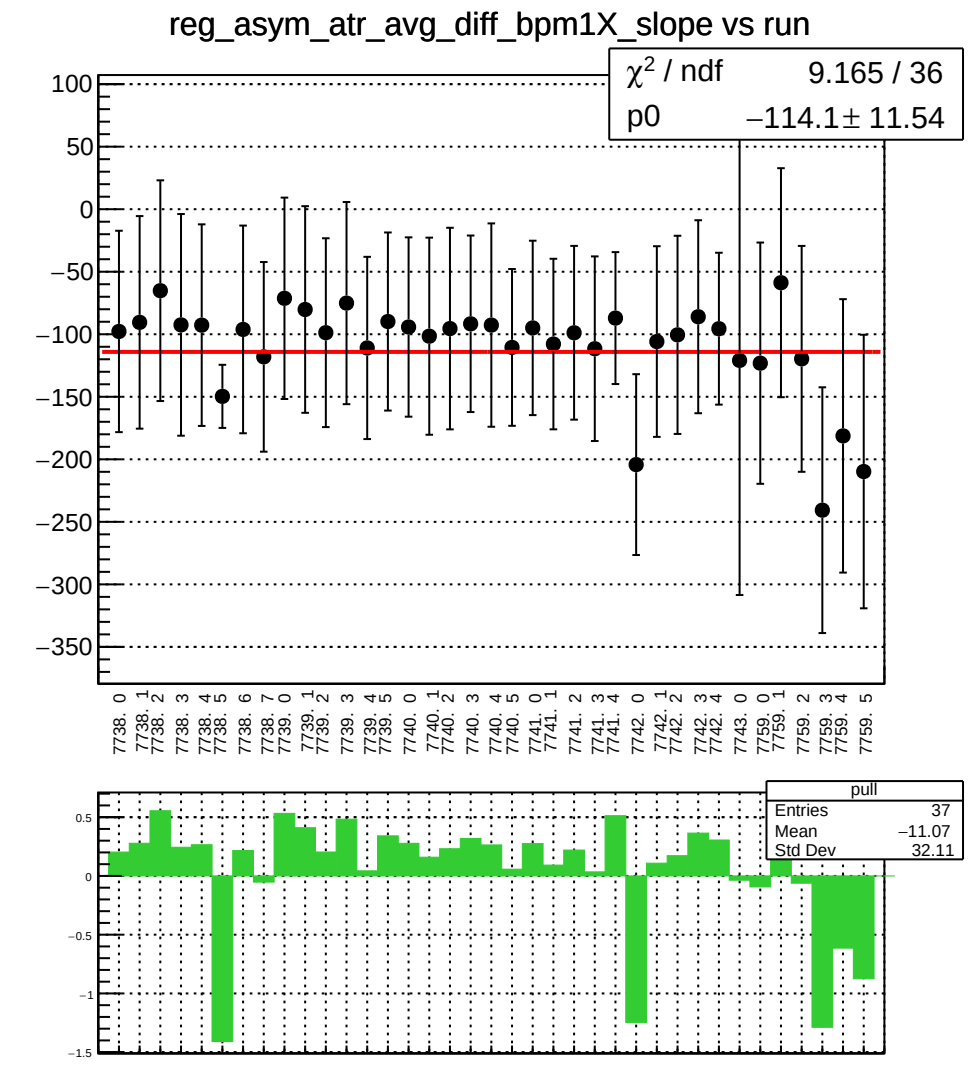

pull1D
Entries 37
Mean −0.01419
Std Dev 0.4449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

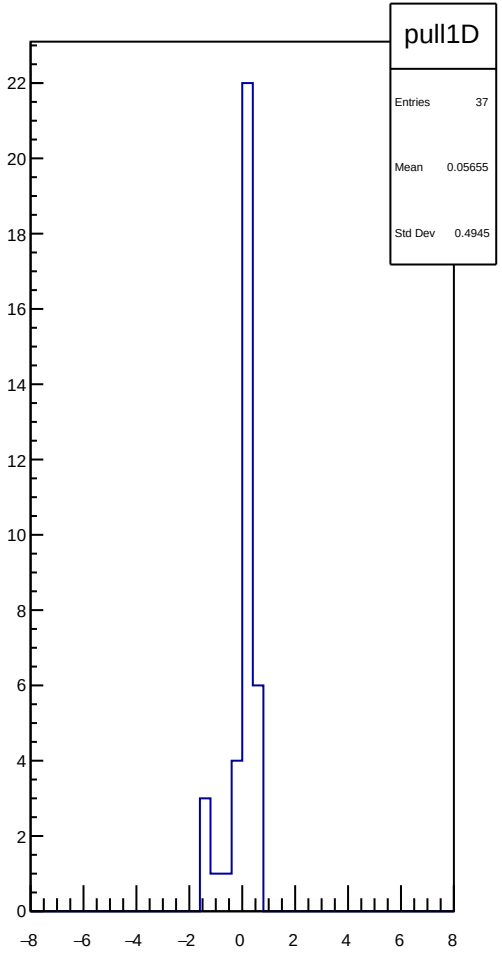

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.749 / 36
p0 −36.85 ± 8.357
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 654.7
Std Dev 637.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.001944
Std Dev 0.2726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

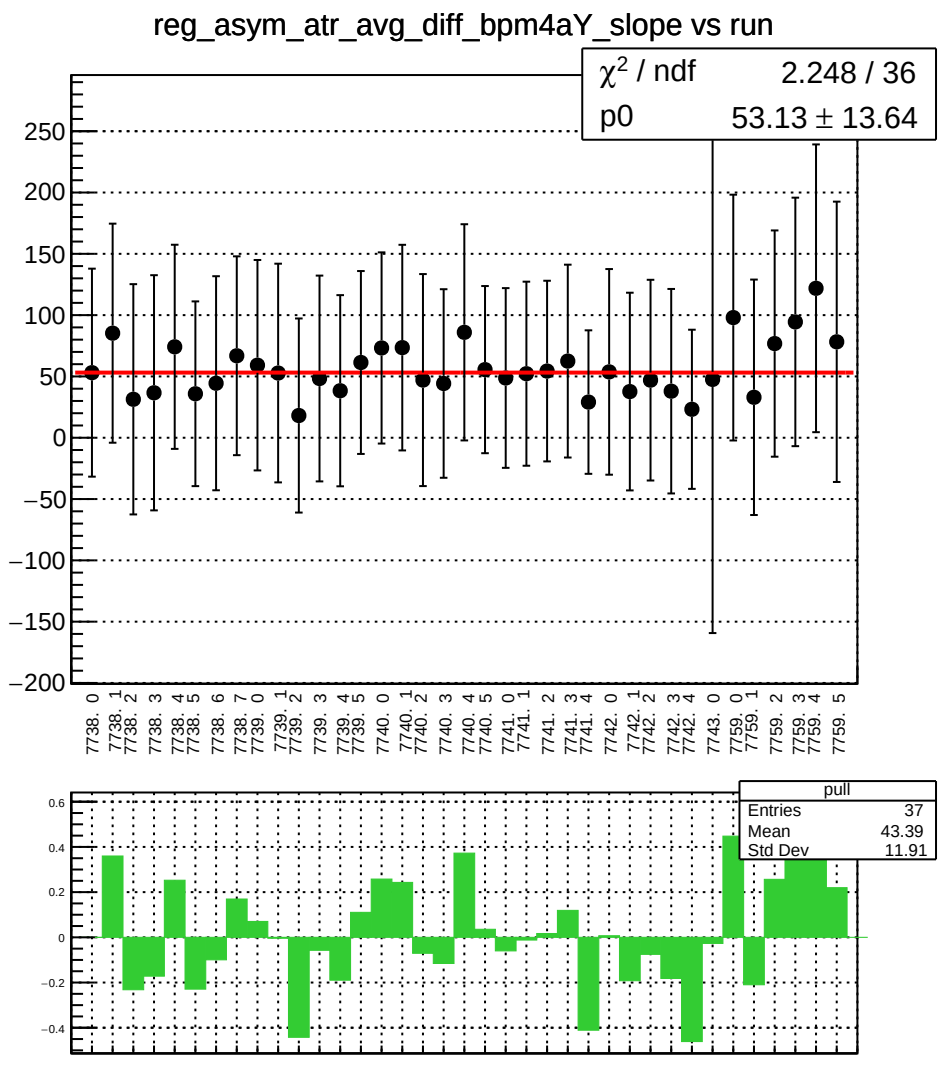

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.072 / 36
p0 −46.67 ± 6.982
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −9.248
Std Dev 32.67
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.04027
Std Dev 0.4353
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

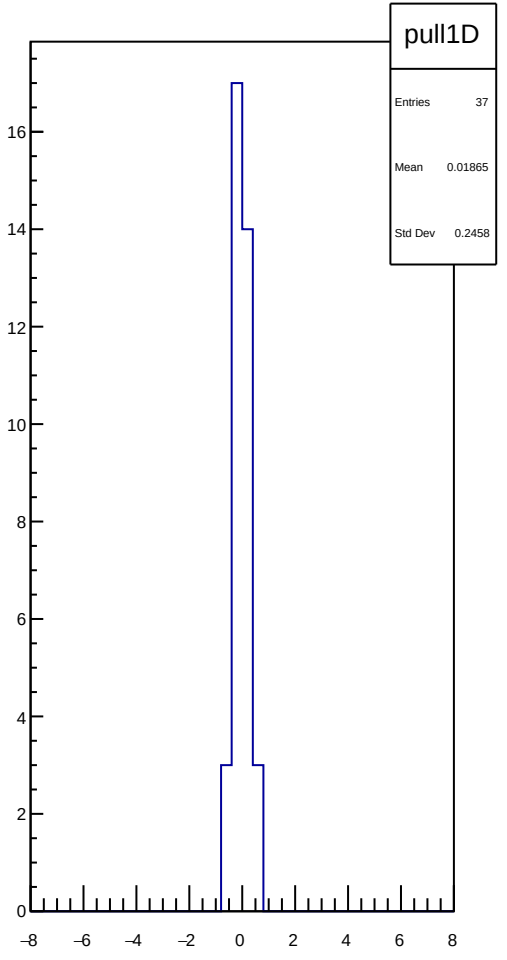

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.656 / 36
p0 8.944 ± 14.38
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −19.38
Std Dev 57
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean 0.008857
Std Dev 0.3142
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

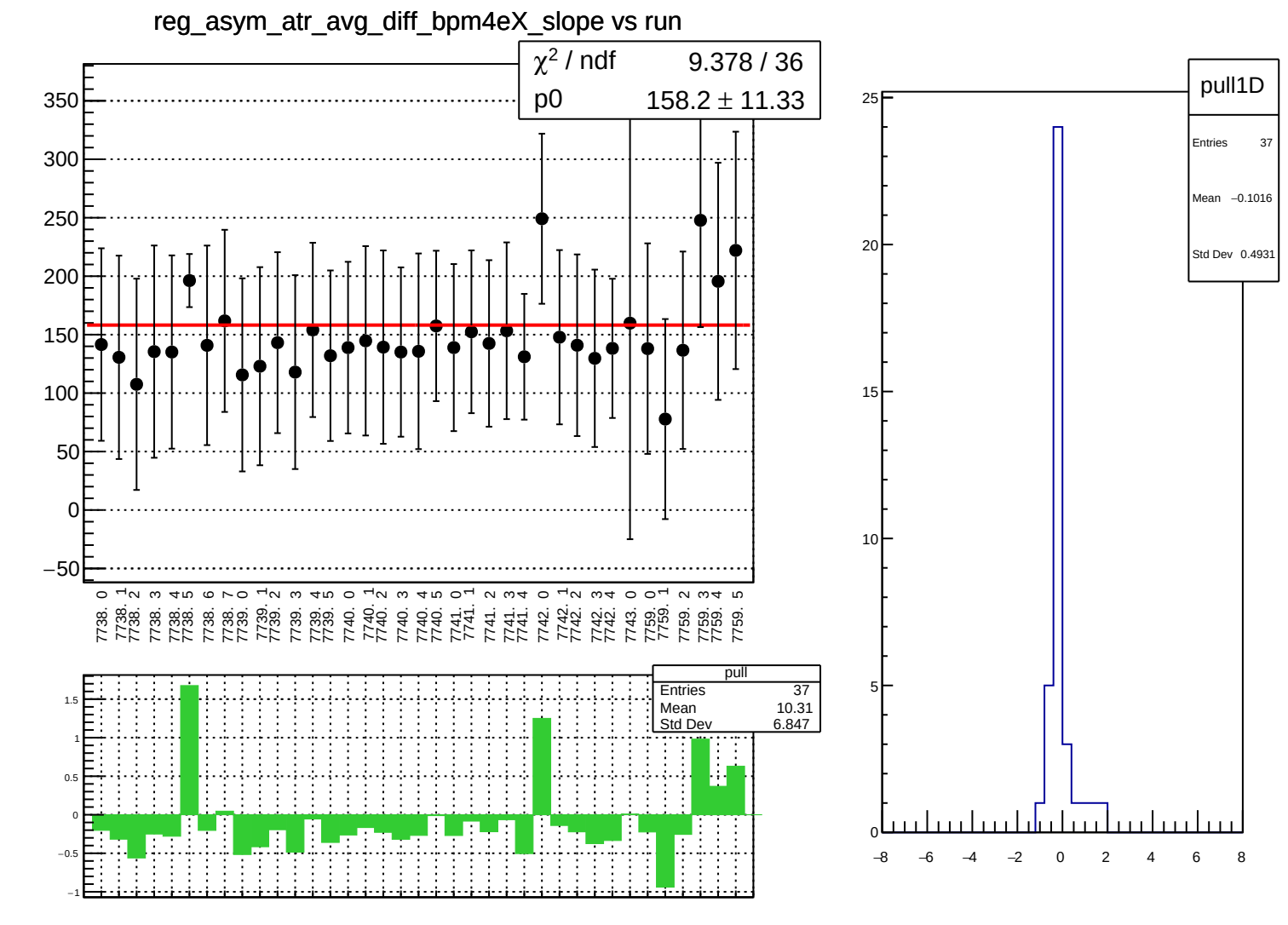

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 7.936 / 36
p0 126.8 ± 0.459
134
132
130
128
126
124
122
120
118
116
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −16.8
Std Dev 36.61
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.03989
Std Dev 0.4614
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

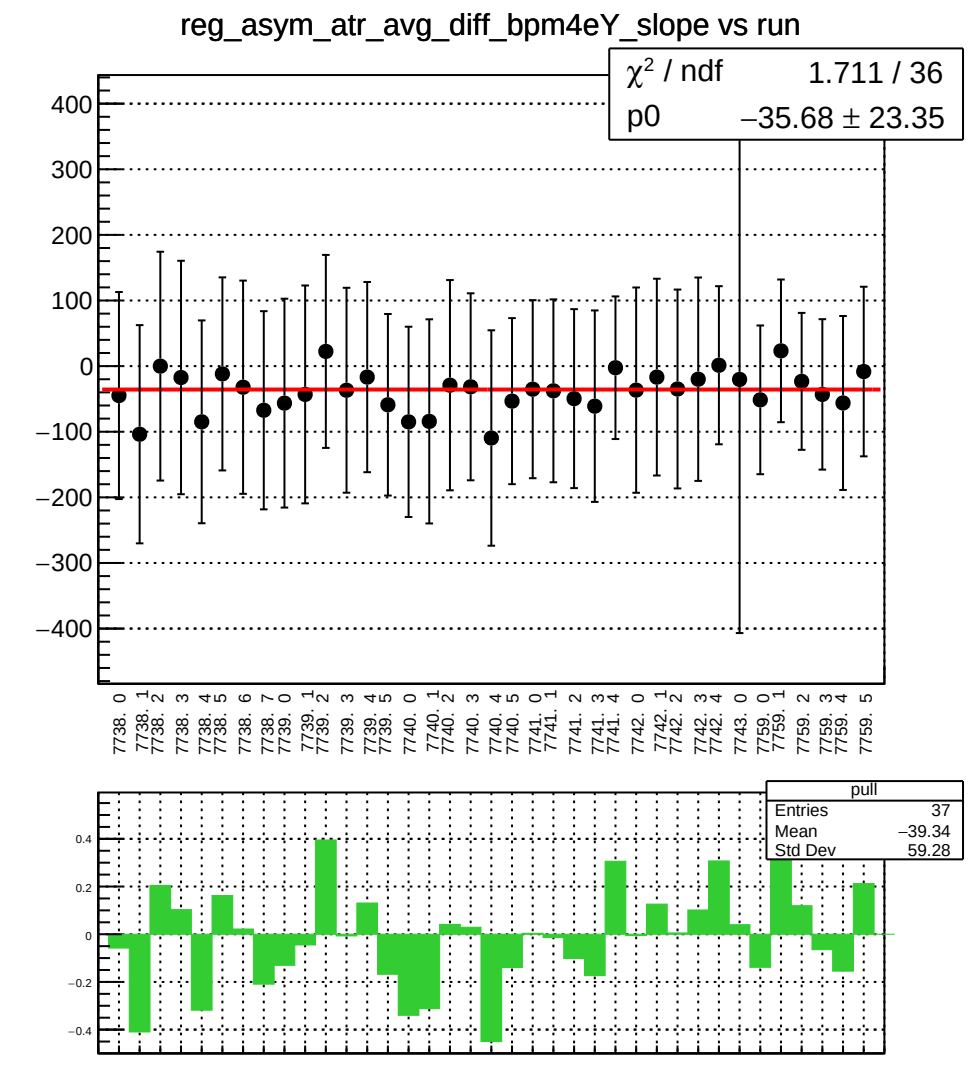

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 9.165 / 36
p0 −114.1± 11.54
pull
Entries 37
Mean −11.07
Std Dev 32.11

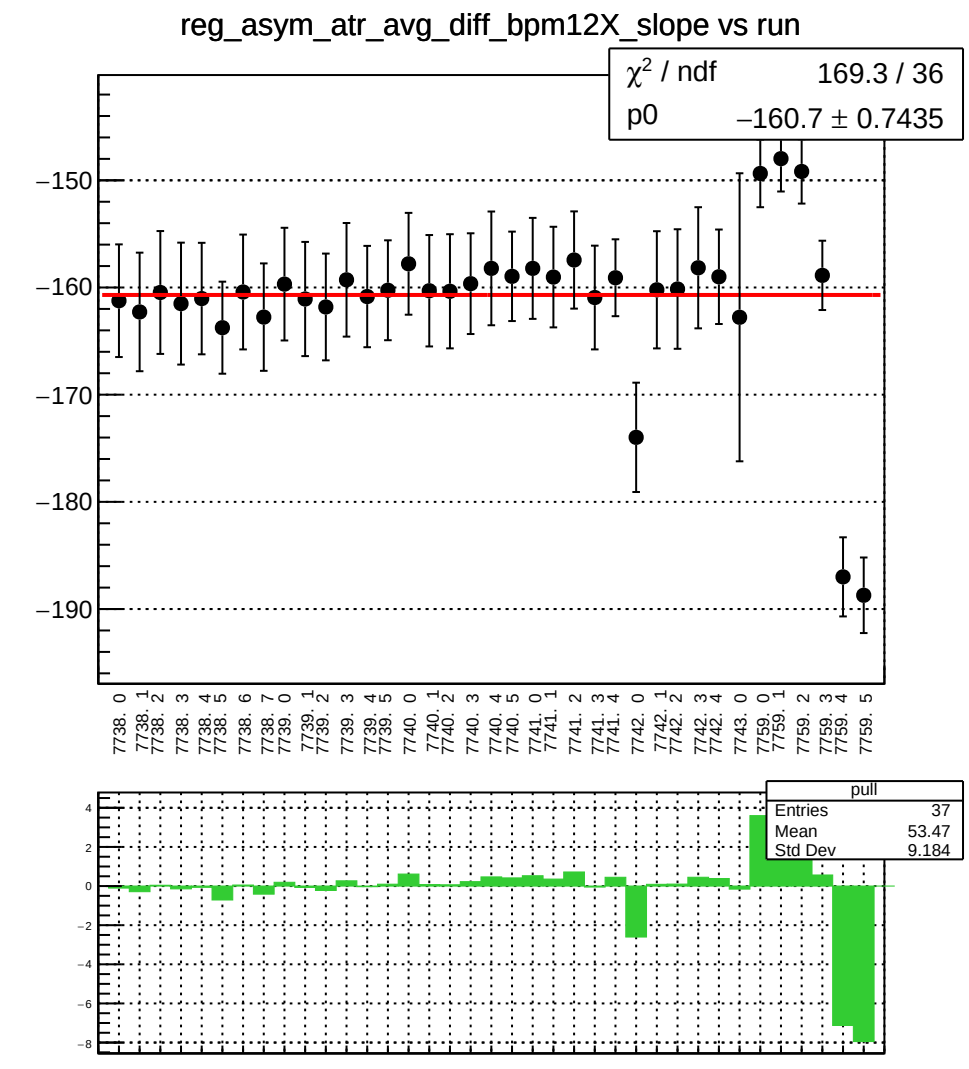

pull1D
Entries 37
Mean 0.05655
Std Dev 0.4945

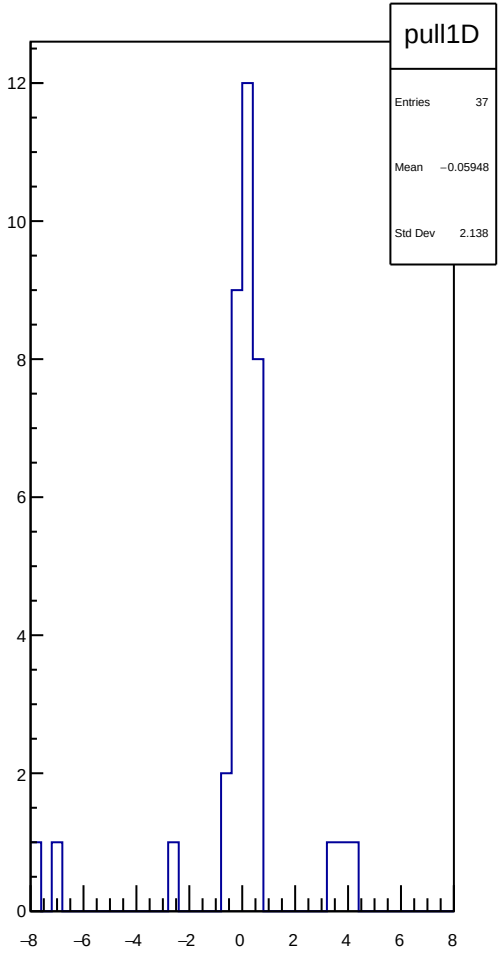

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.248 / 36
p0 53.13 ± 13.64
250
200
150
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 43.39
Std Dev 11.91
0.6
0.4
0.2
0
−0.2
−0.4

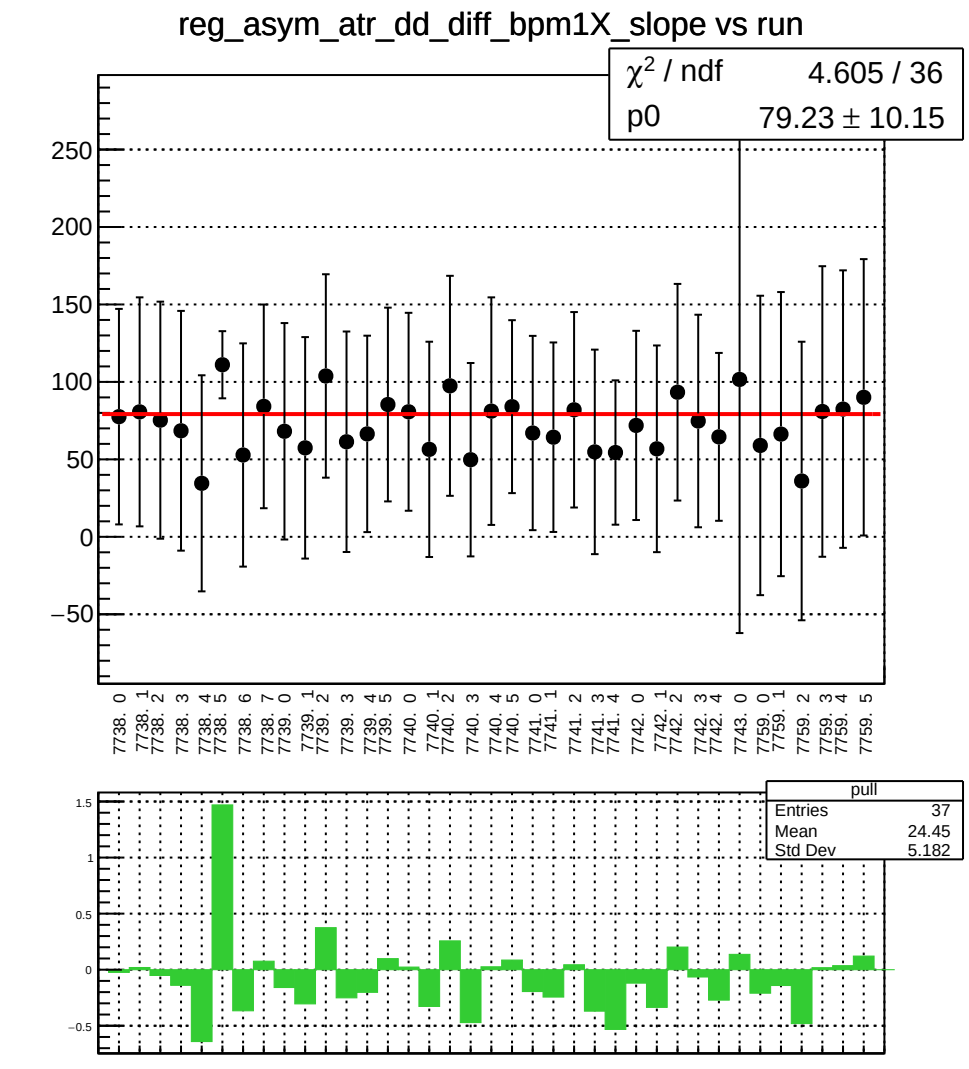

pull1D
Entries 37
Mean 0.01865
Std Dev 0.2458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

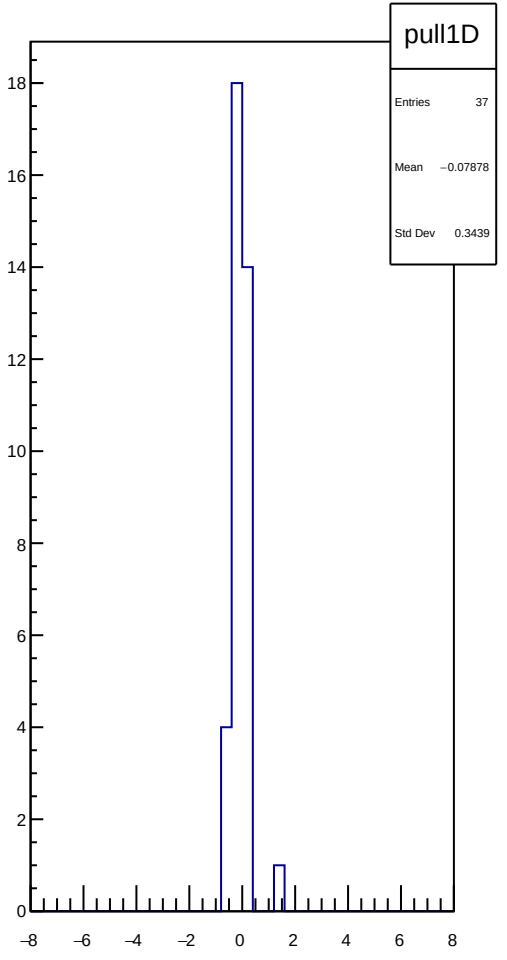

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.378 / 36
p0 158.2 ± 11.33
pull
Entries 37
Mean 10.31
Std Dev 6.847
pull1D
Entries 37
Mean −0.1016
Std Dev 0.4931

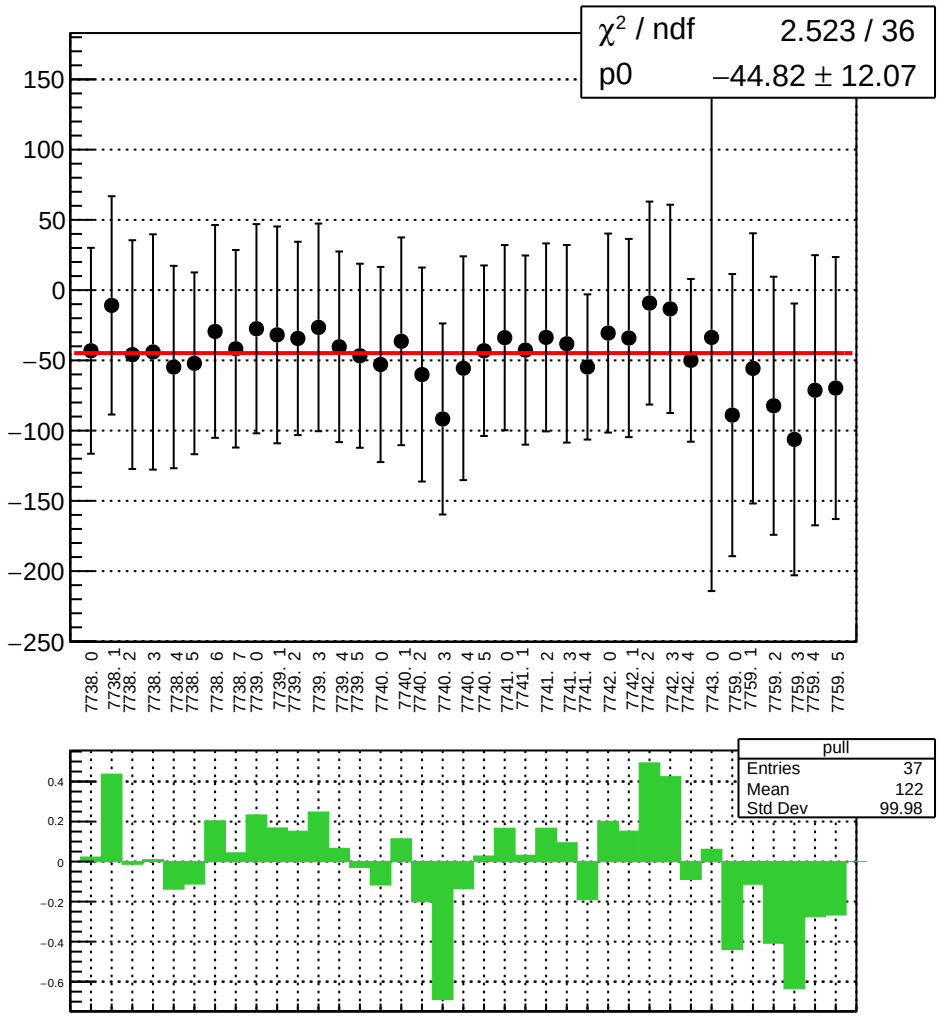

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.711 / 36
p0 −35.68 ± 23.35
400
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −39.34
Std Dev 59.28
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean −0.01048
Std Dev 0.2148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

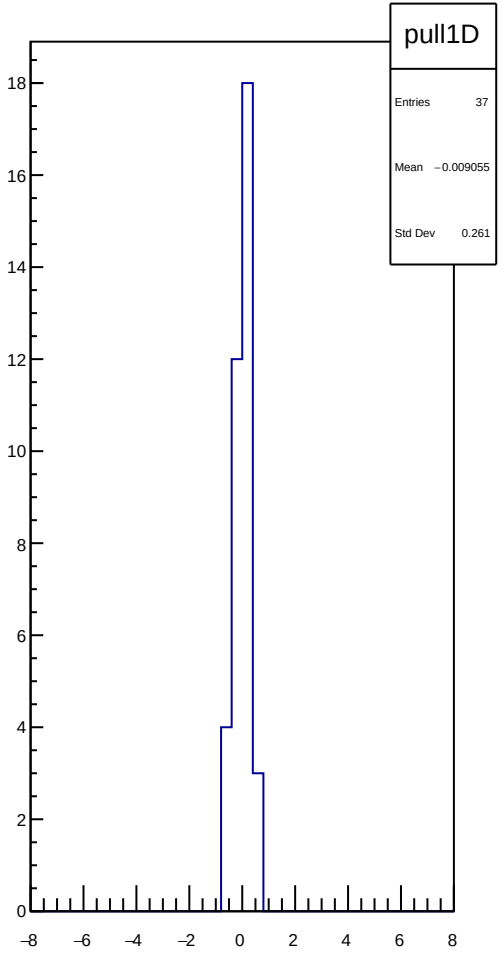

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 169.3 / 36
p0 −160.7 ± 0.7435
−150
−160
−170
−180
−190
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 53.47
Std Dev 9.184
4
2
0
−2
−4
−6
−8

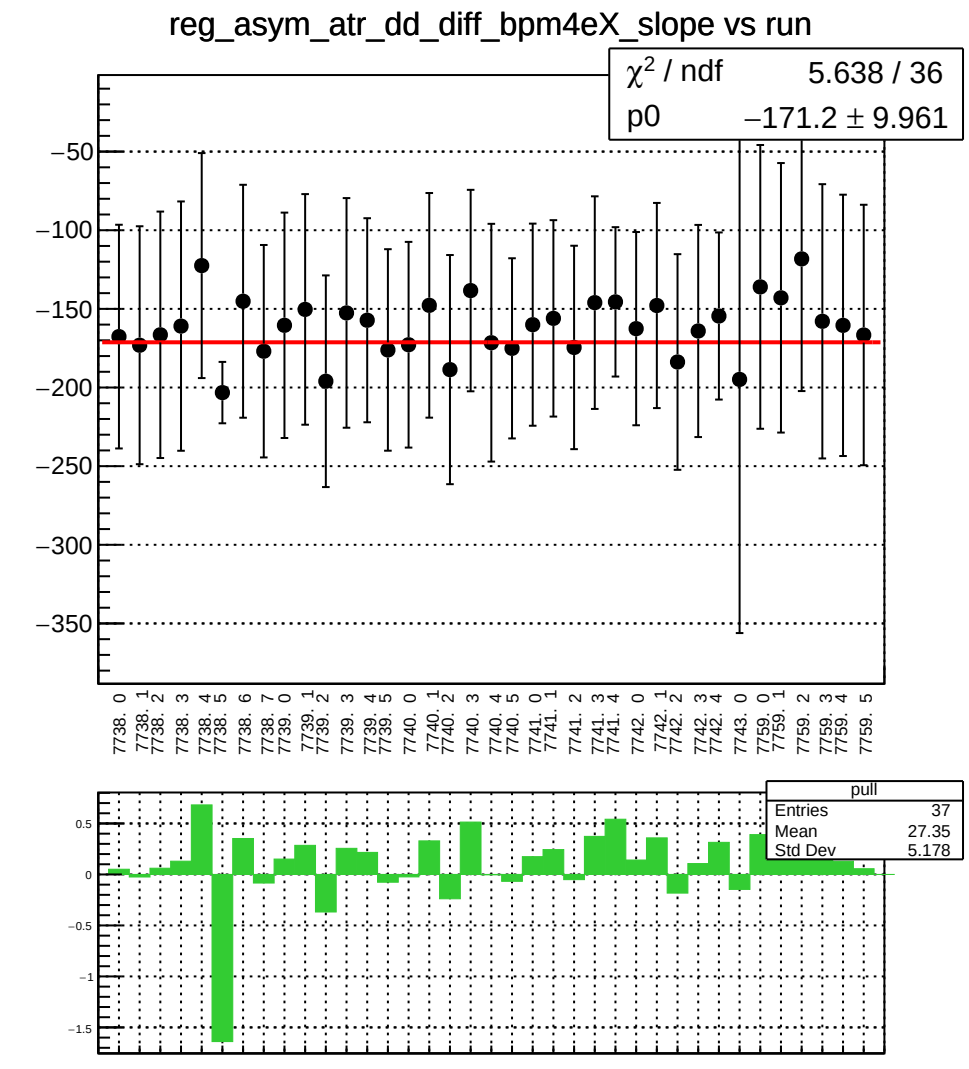

pull1D
Entries 37
Mean −0.05948
Std Dev 2.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

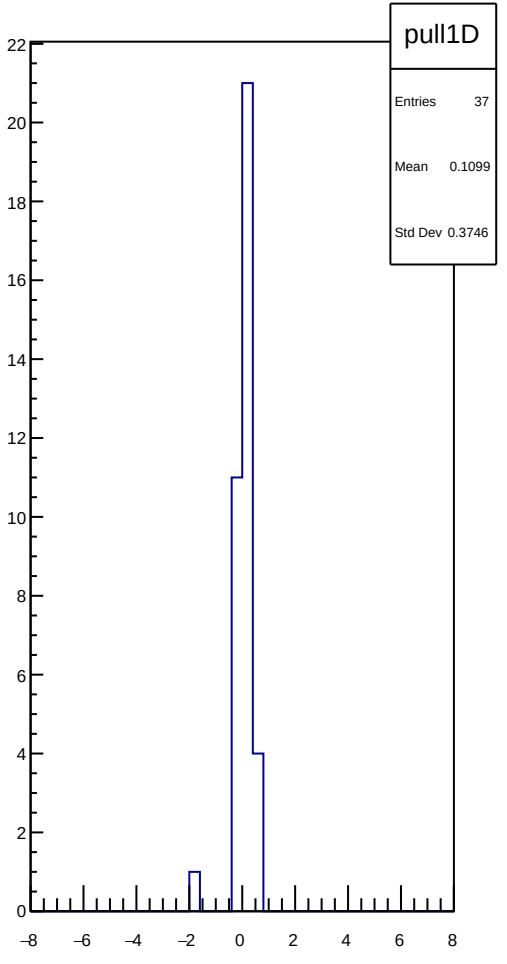

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 4.605 / 36
p0 79.23 ± 10.15
250
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 24.45
Std Dev 5.182
1.5
1
0.5
0
−0.5

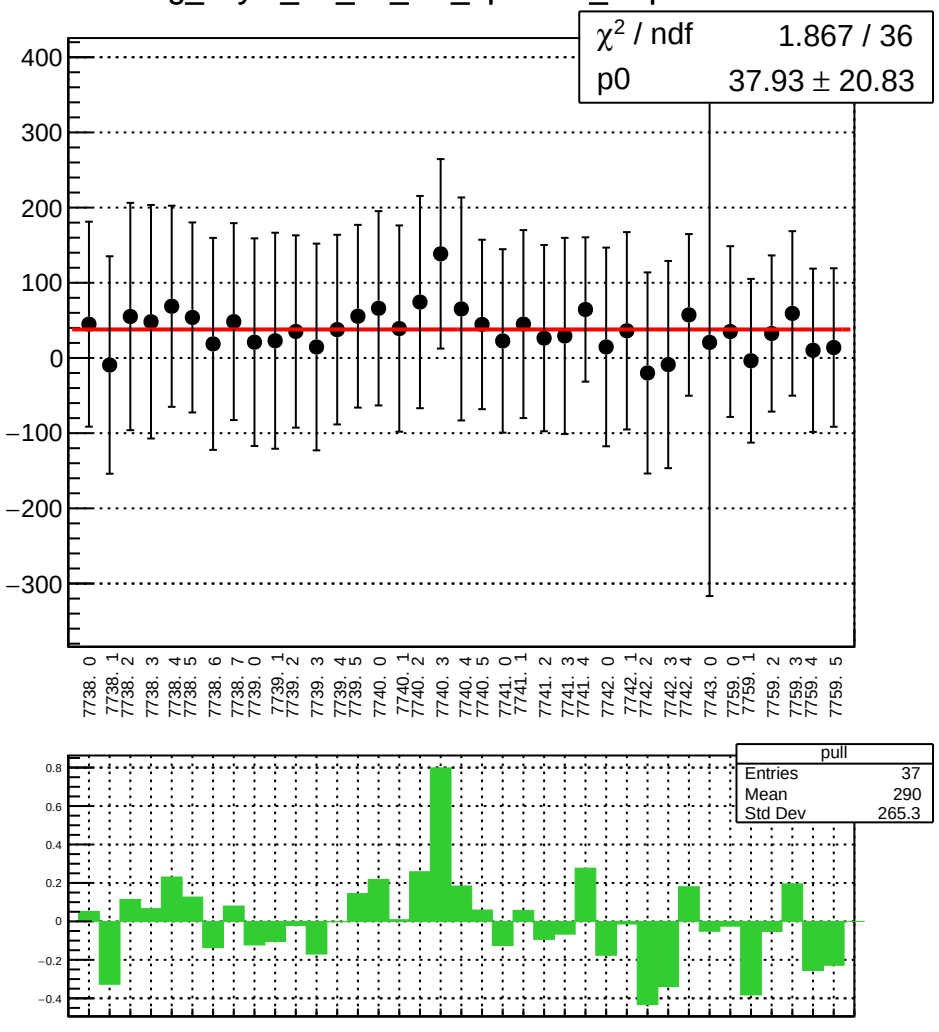

pull1D
Entries 37
Mean −0.07878
Std Dev 0.3439
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

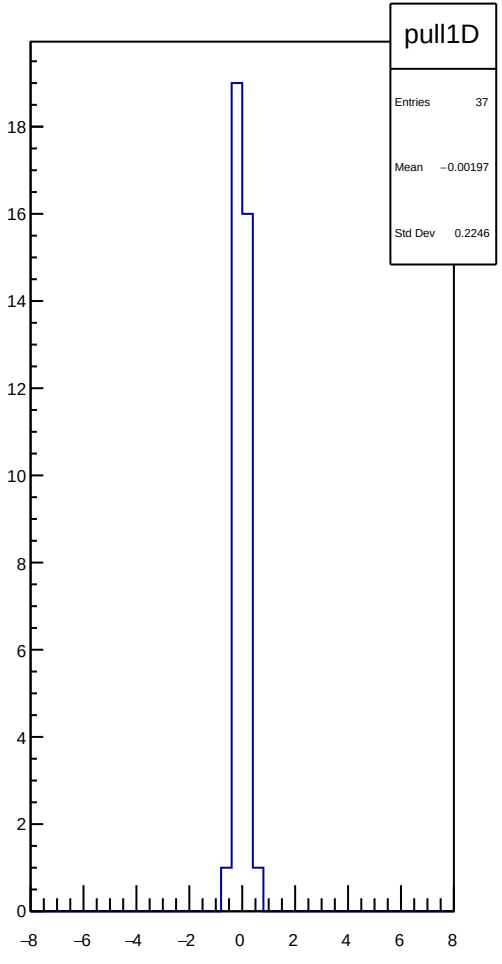

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.523 / 36
p0 −44.82 ± 12.07
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 122
Std Dev 99.98
0.4
0.2
0
−0.2
−0.4
−0.6

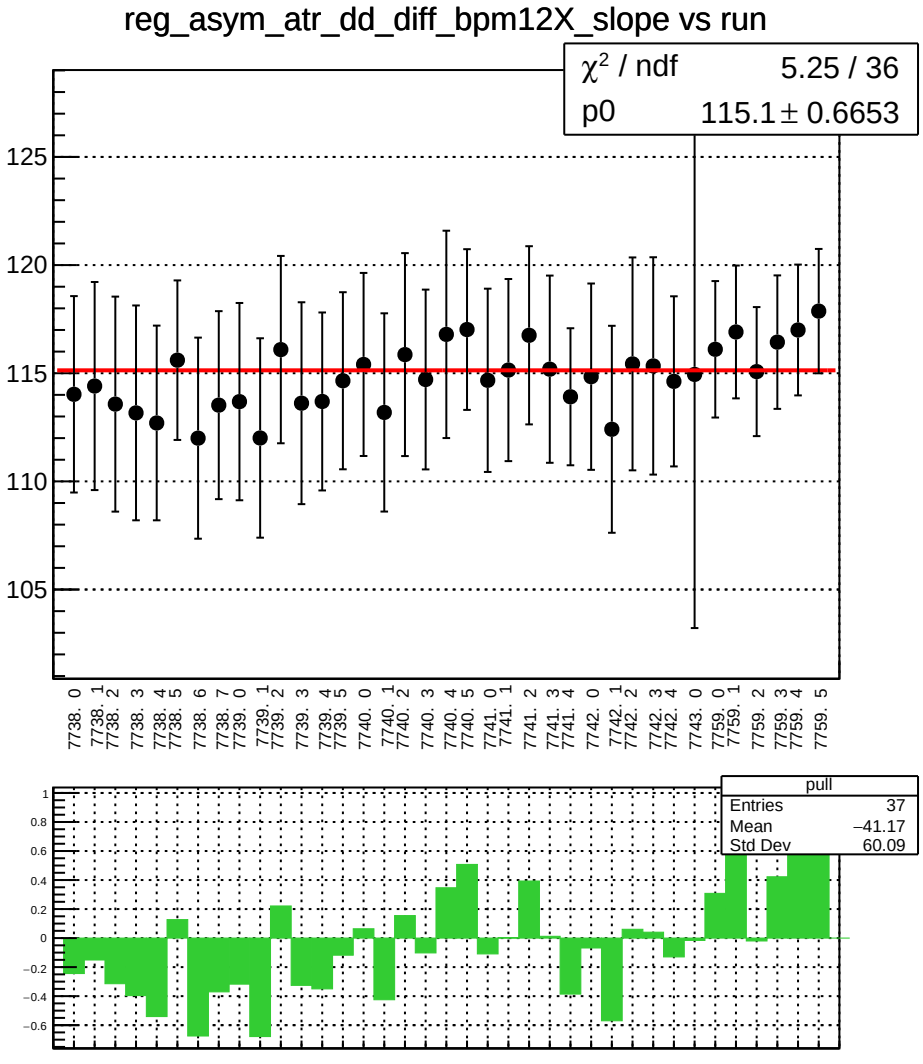

pull1D
Entries 37
Mean −0.009055
Std Dev 0.261
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

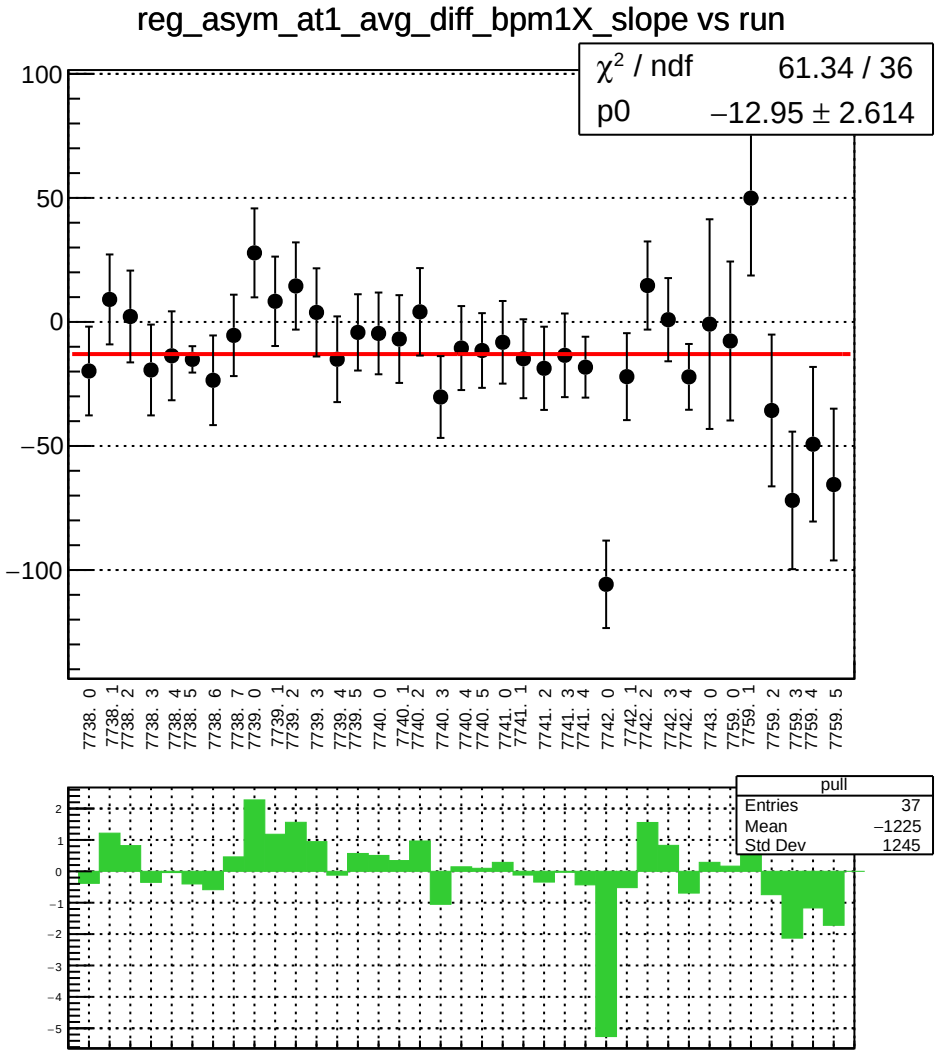

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.638 / 36
p0 −171.2 ± 9.961
−50
−100
−150
−200
−250
−300
−350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 27.35
Std Dev 5.178
0.5
0
−0.5
−1
−1.5

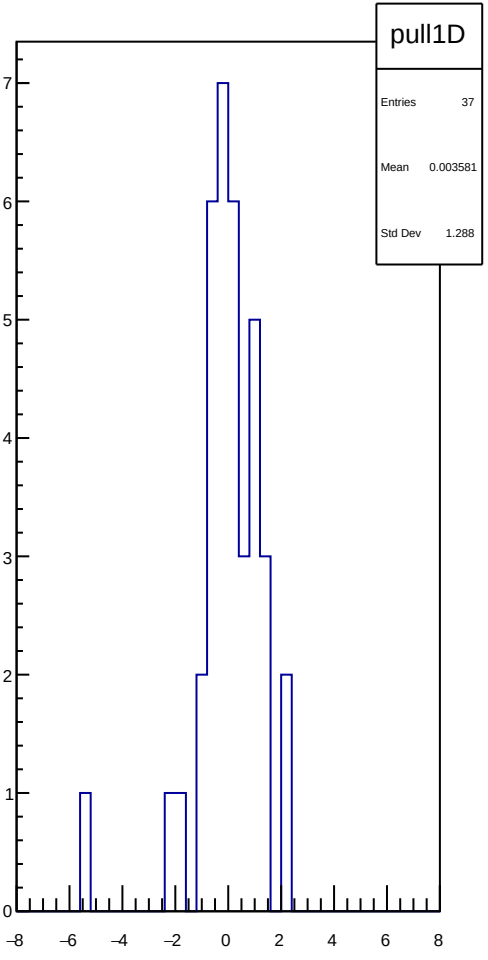

pull1D
Entries 37
Mean 0.1099
Std Dev 0.3746
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

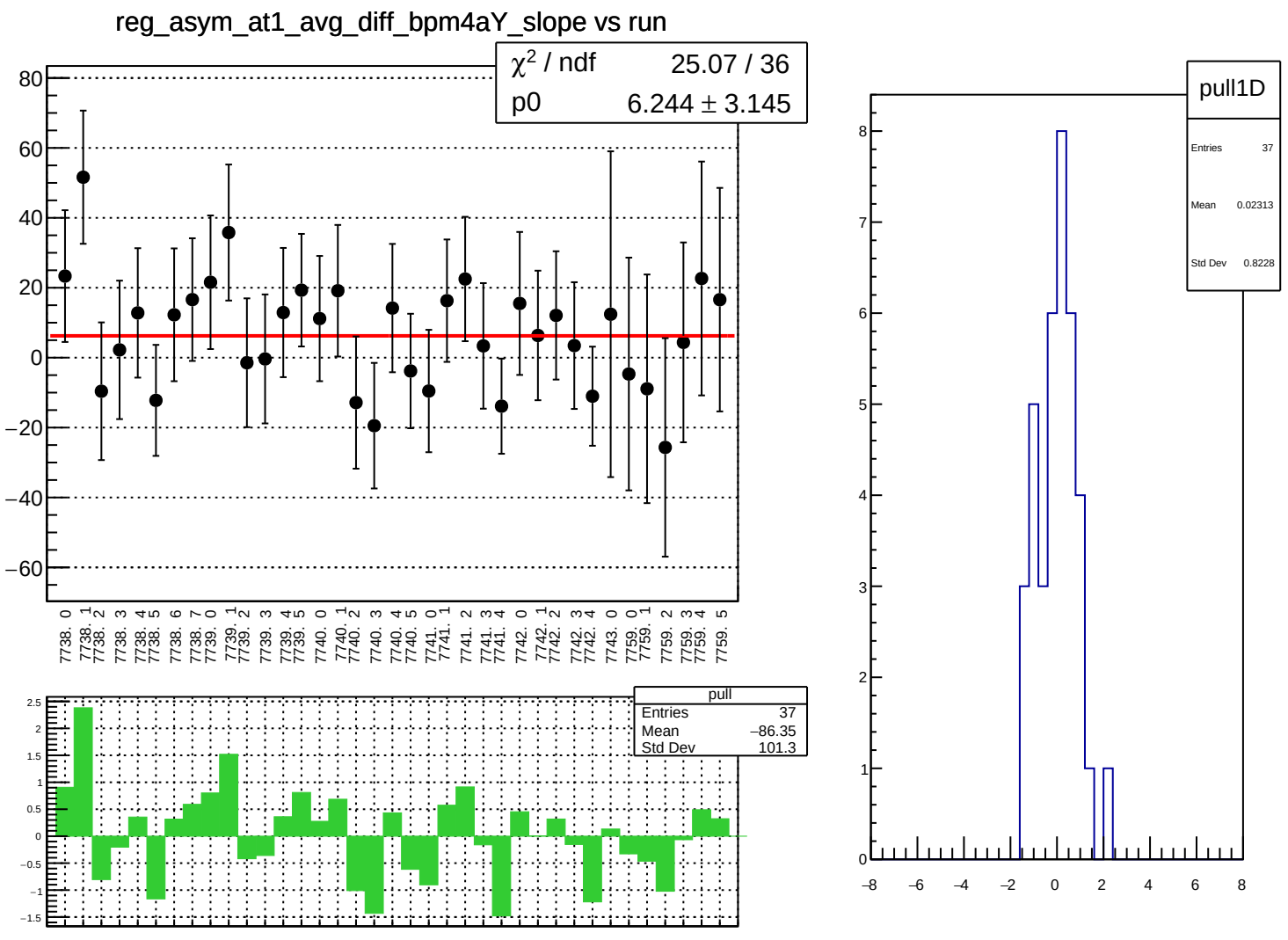

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.867 / 36
p0 37.93 ± 20.83
pull
Entries 37
Mean 290
Std Dev 265.3

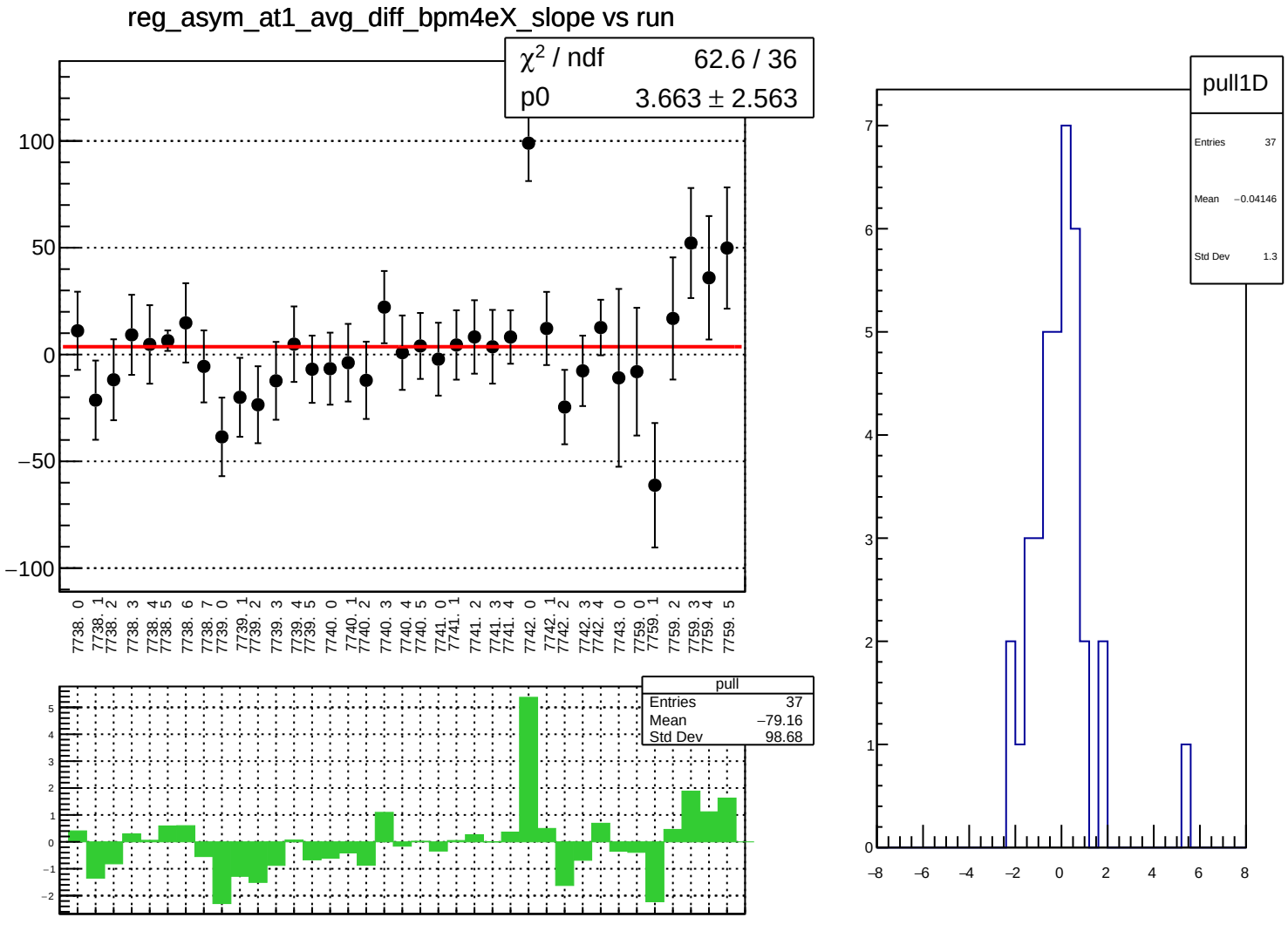

pull1D
Entries 37
Mean −0.00197
Std Dev 0.2246

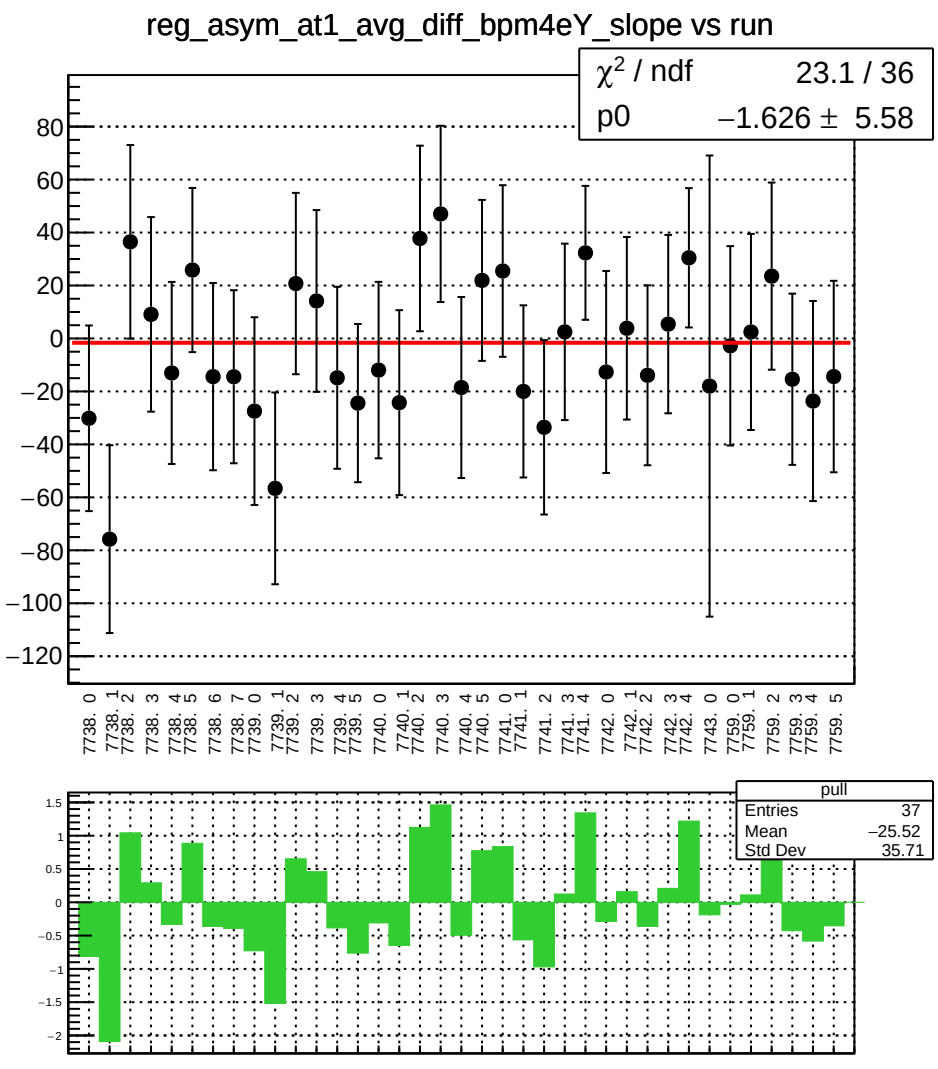

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 5.25 / 36
p0 115.1 ± 0.6653
125
120
115
110
105
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −41.17
Std Dev 60.09
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.04049
Std Dev 0.3745
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

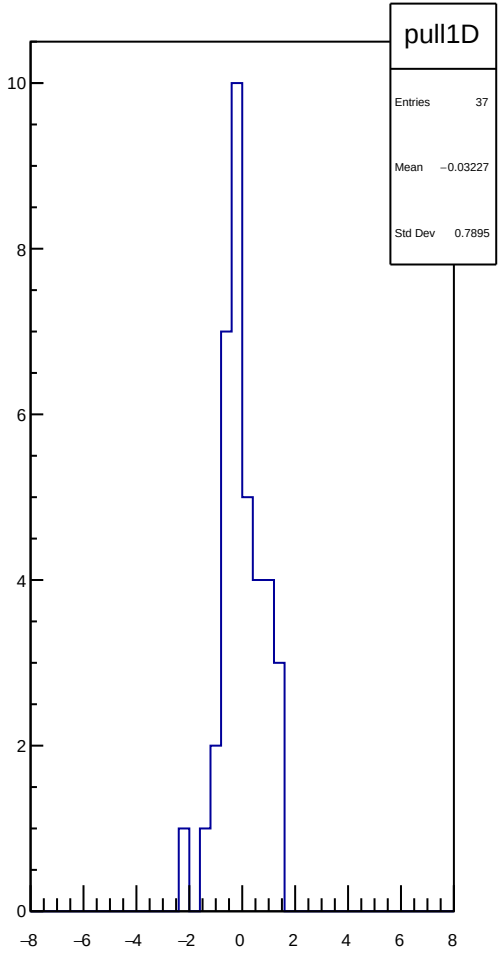

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 61.34 / 36
p0 −12.95 ± 2.614
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1225
Std Dev 1245
2
1
0
−1
−2
−3
−4
−5

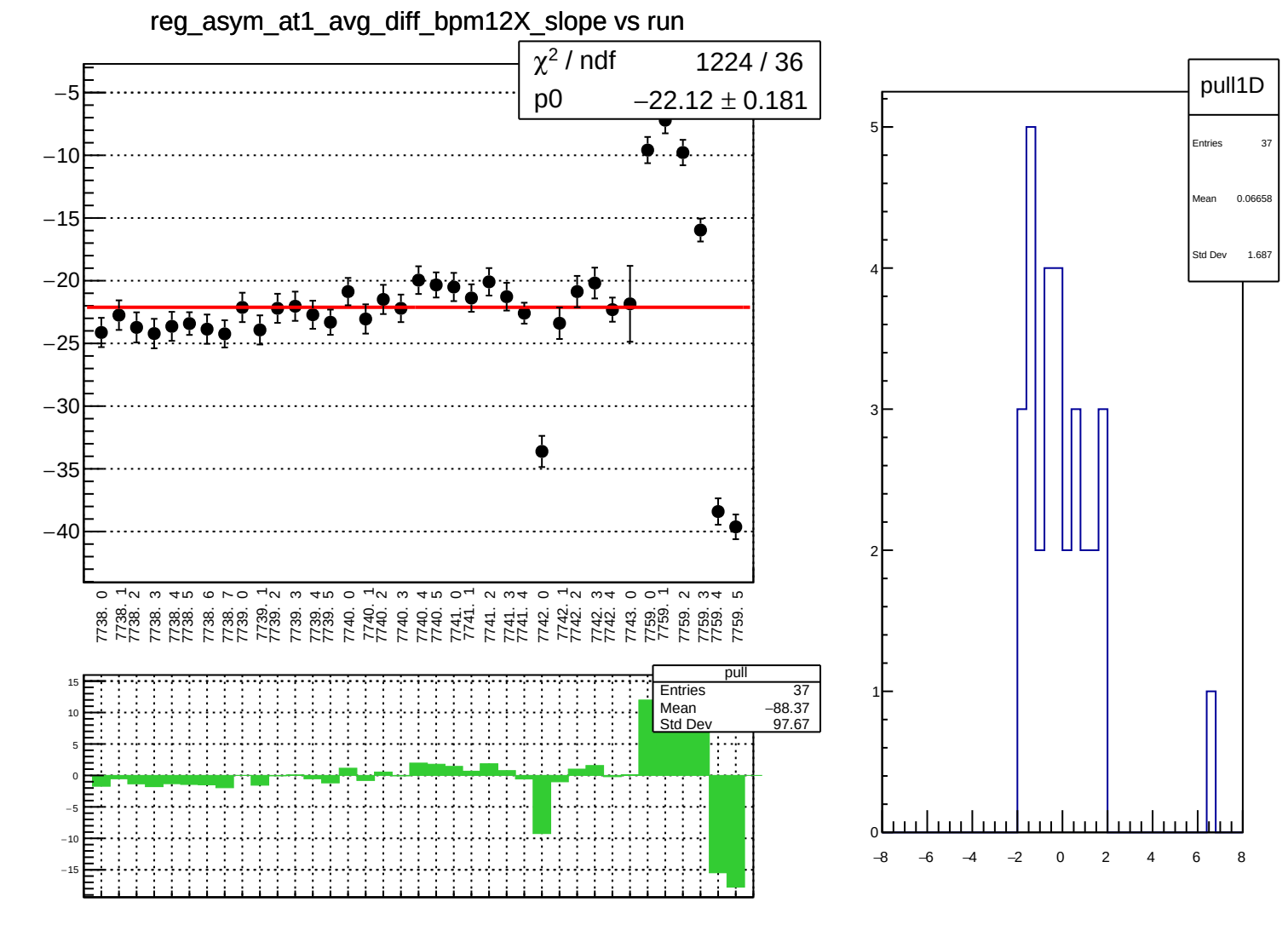

pull1D
Entries 37
Mean 0.003581
Std Dev 1.288
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

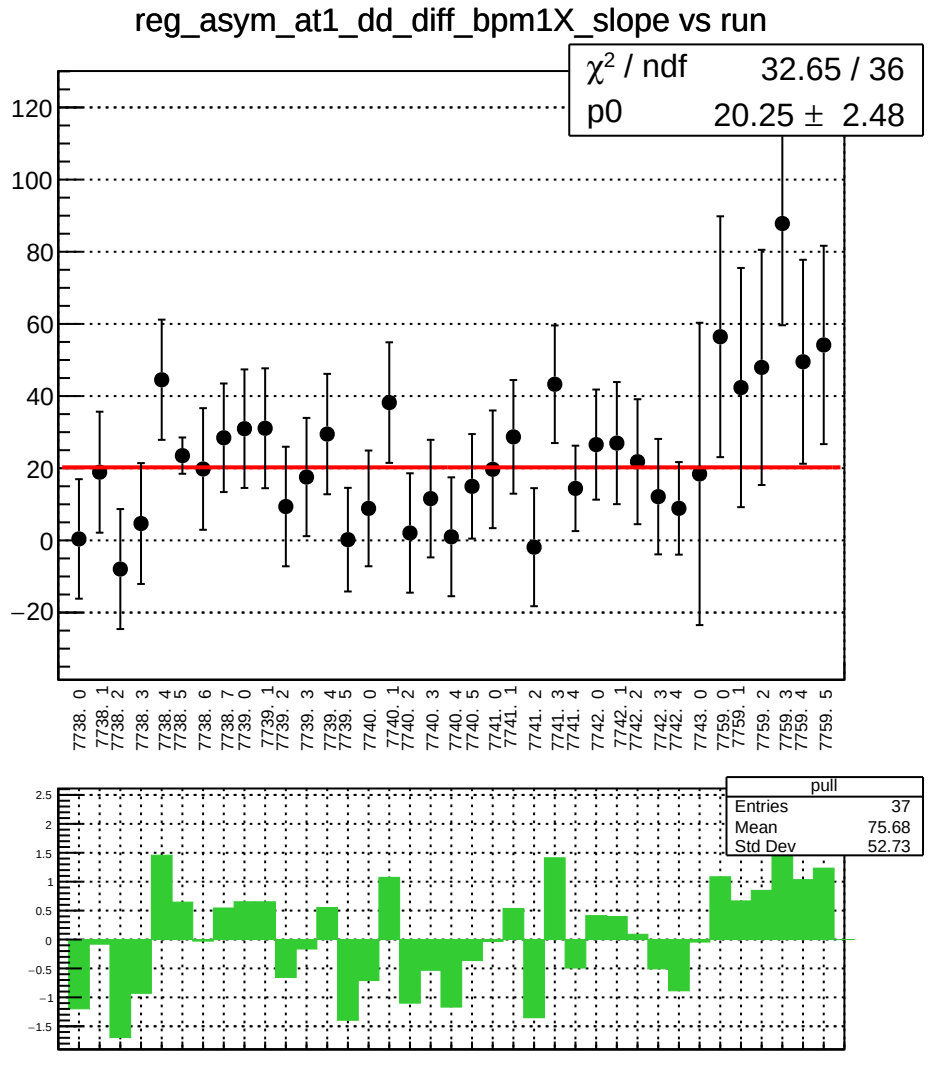

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.07 / 36
p0 6.244 ± 3.145
80
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −86.35
Std Dev 101.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.02313
Std Dev 0.8228
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

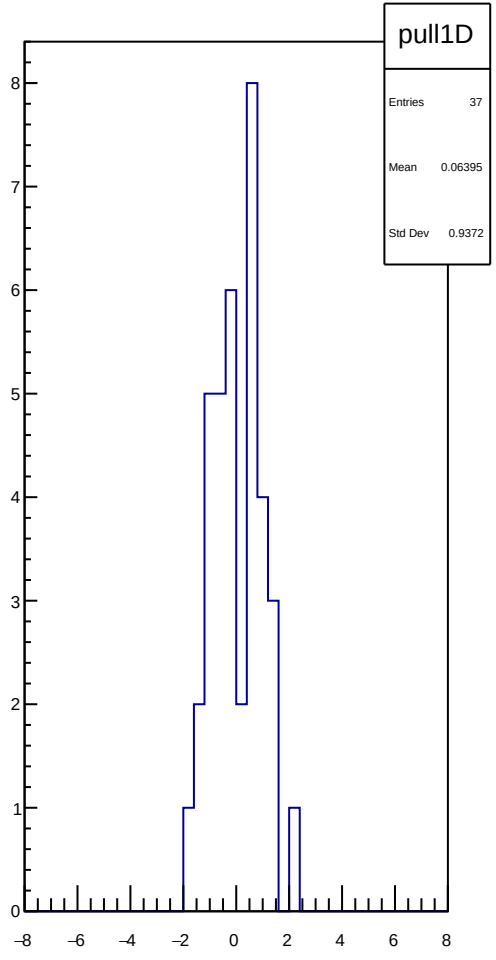

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.6 / 36
p0 3.663 ± 2.563
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −79.16
Std Dev 98.68
pull1D
Entries 37
Mean −0.04146
Std Dev 1.3

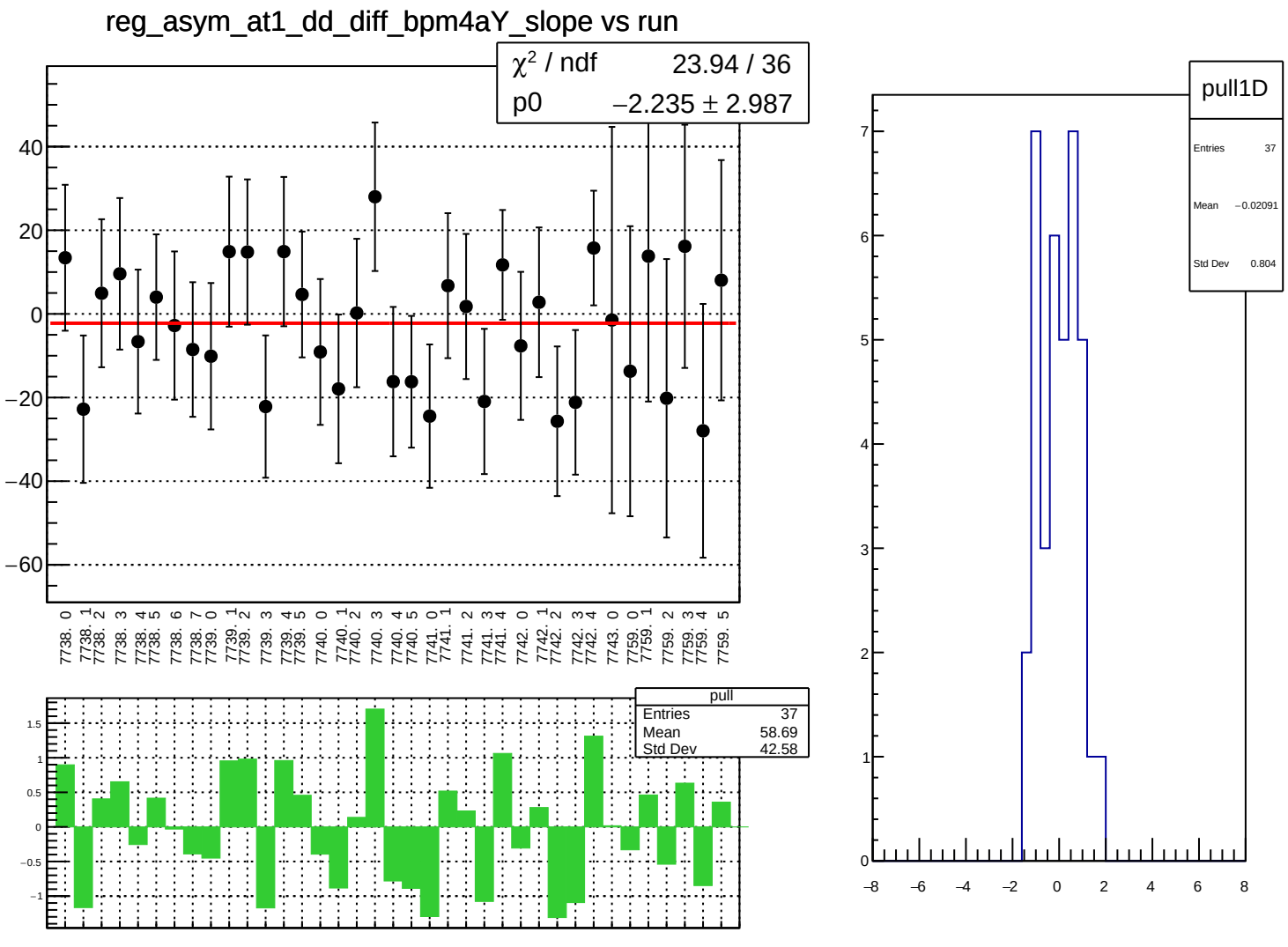

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.1 / 36
p0 −1.626 ± 5.58
pull
Entries 37
Mean −25.52
Std Dev 35.71

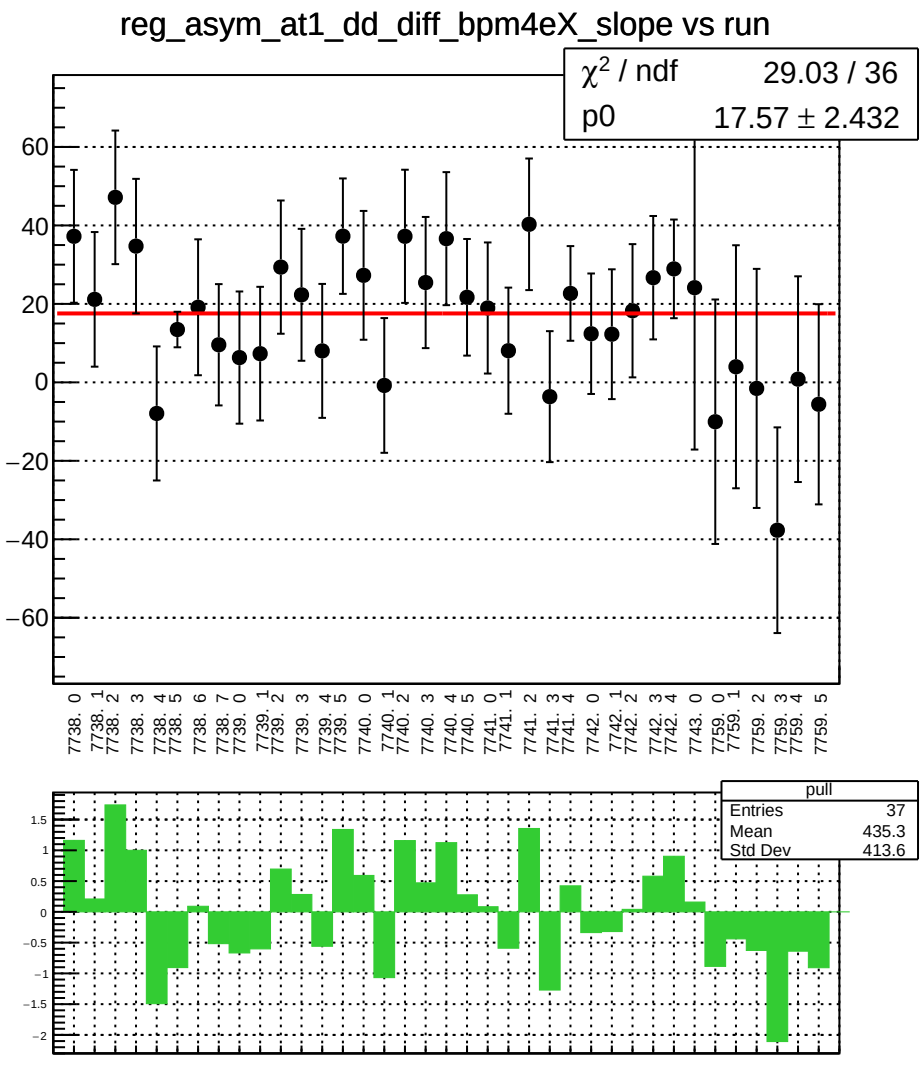

pull1D
Entries 37
Mean −0.03227
Std Dev 0.7895

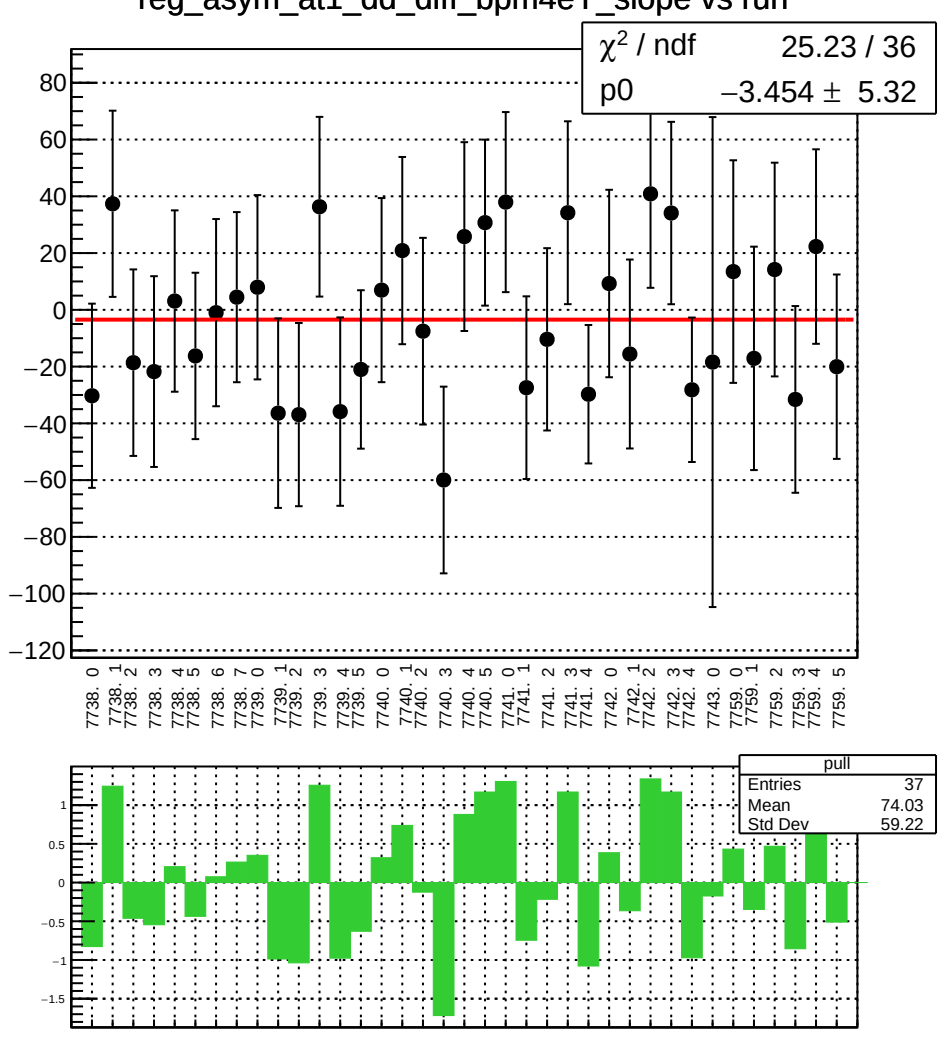

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1224 / 36
p0 −22.12 ± 0.181
pull
Entries 37
Mean −88.37
Std Dev 97.67
pull1D
Entries 37
Mean 0.06658
Std Dev 1.687

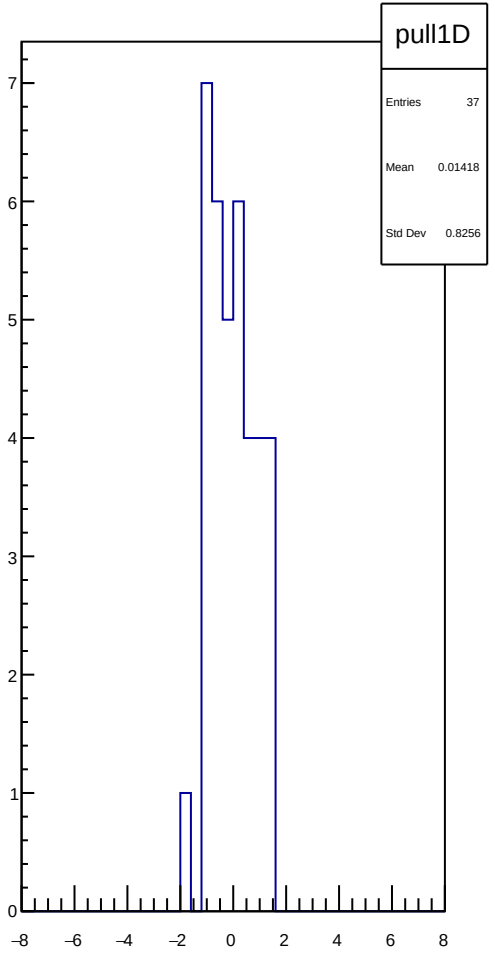

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 32.65 / 36
p0 20.25 ± 2.48
pull
Entries 37
Mean 75.68
Std Dev 52.73

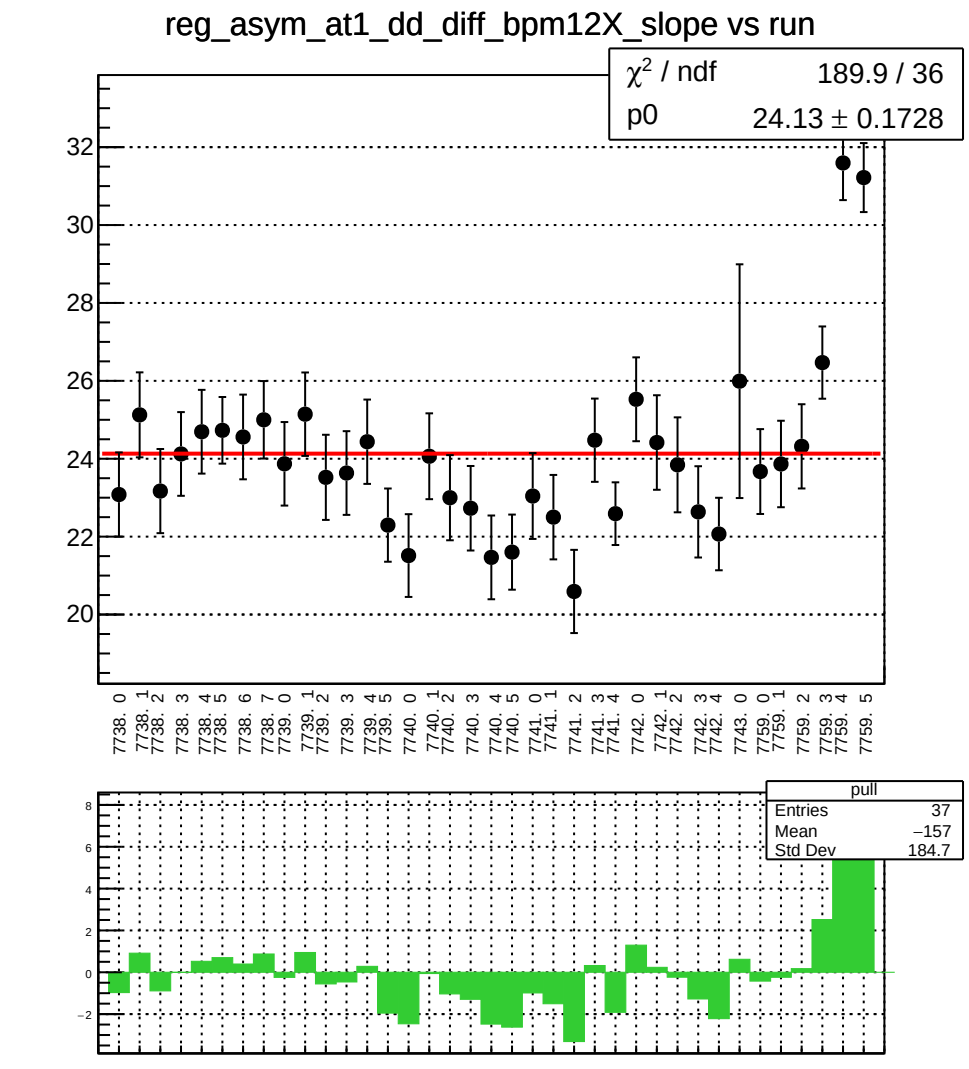

pull1D
Entries 37
Mean 0.06395
Std Dev 0.9372

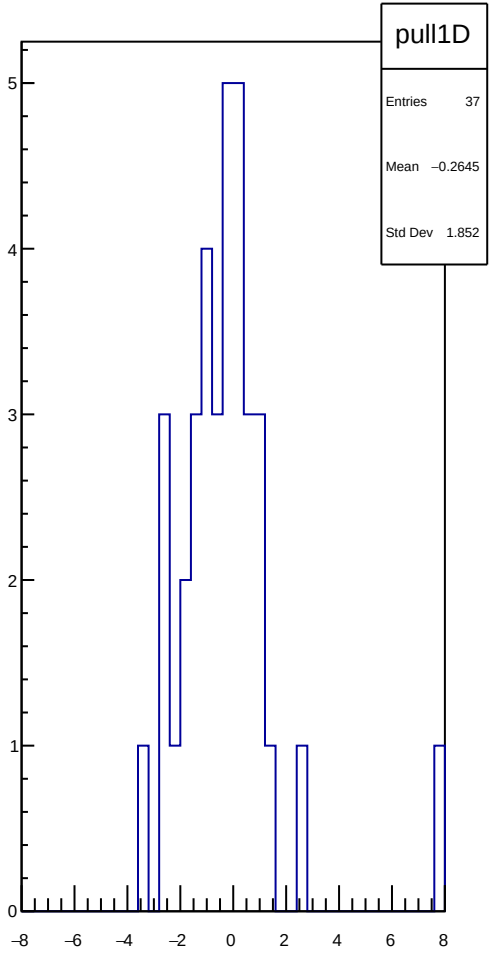

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.94 / 36
p0 −2.235 ± 2.987
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 58.69
Std Dev 42.58
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean −0.02091
Std Dev 0.804
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

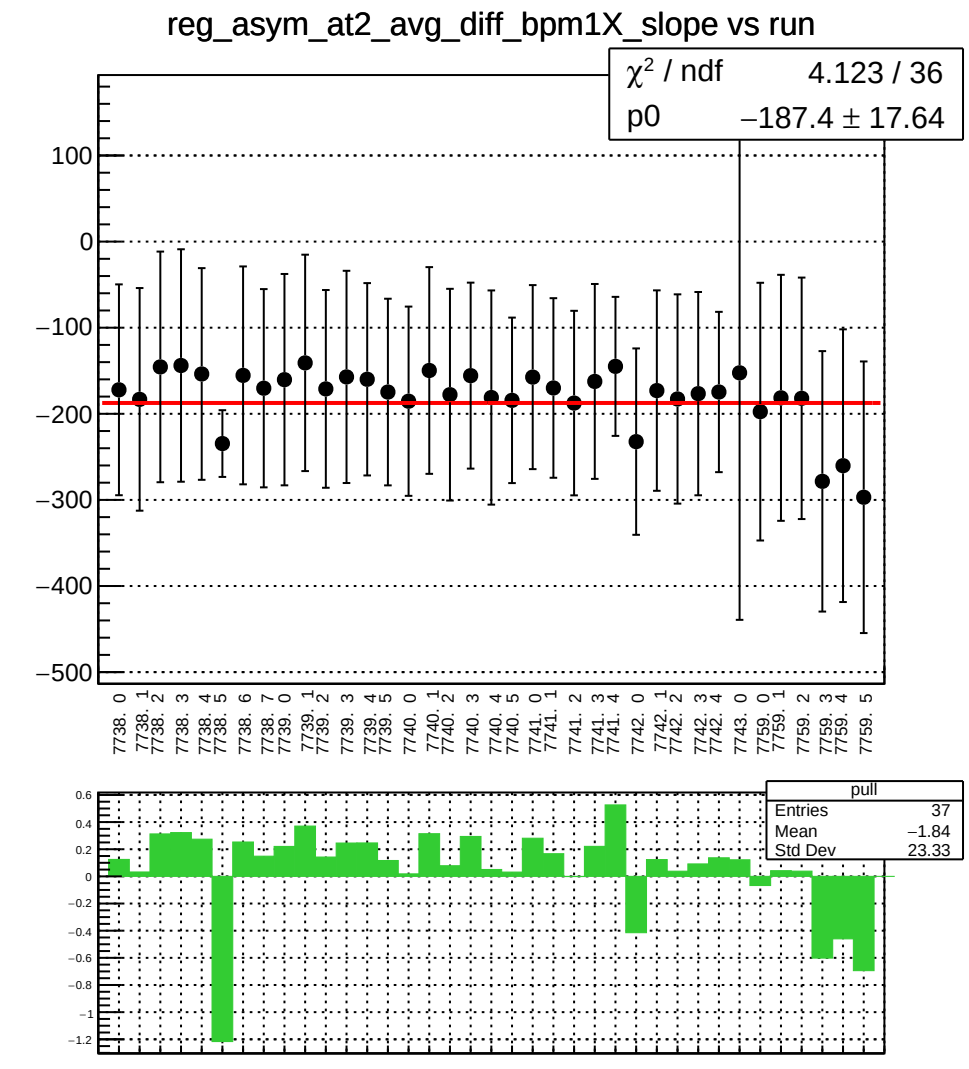

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.03 / 36
p0 17.57 ± 2.432
60
40
20
0
−20
−40
−60
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 435.3
Std Dev 413.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.006834
Std Dev 0.8858
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

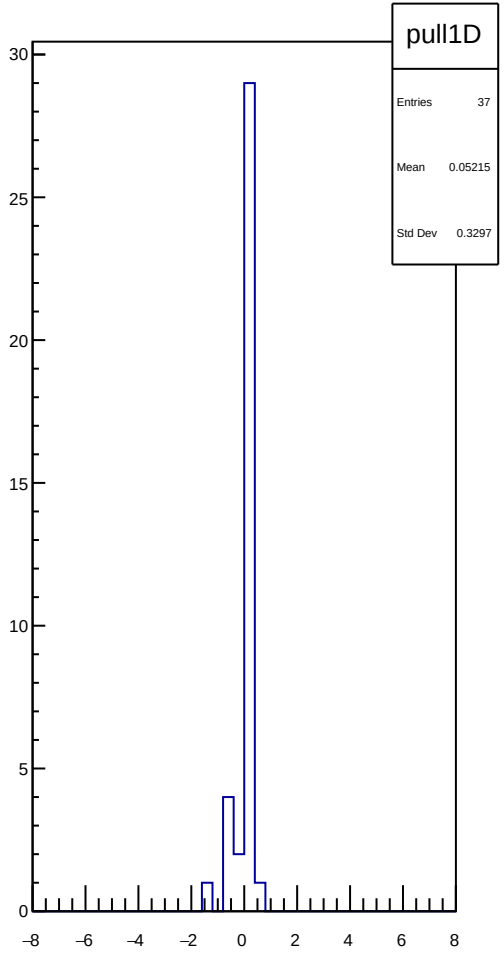

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.23 / 36
p0 −3.454 ± 5.32
pull
Entries 37
Mean 74.03
Std Dev 59.22

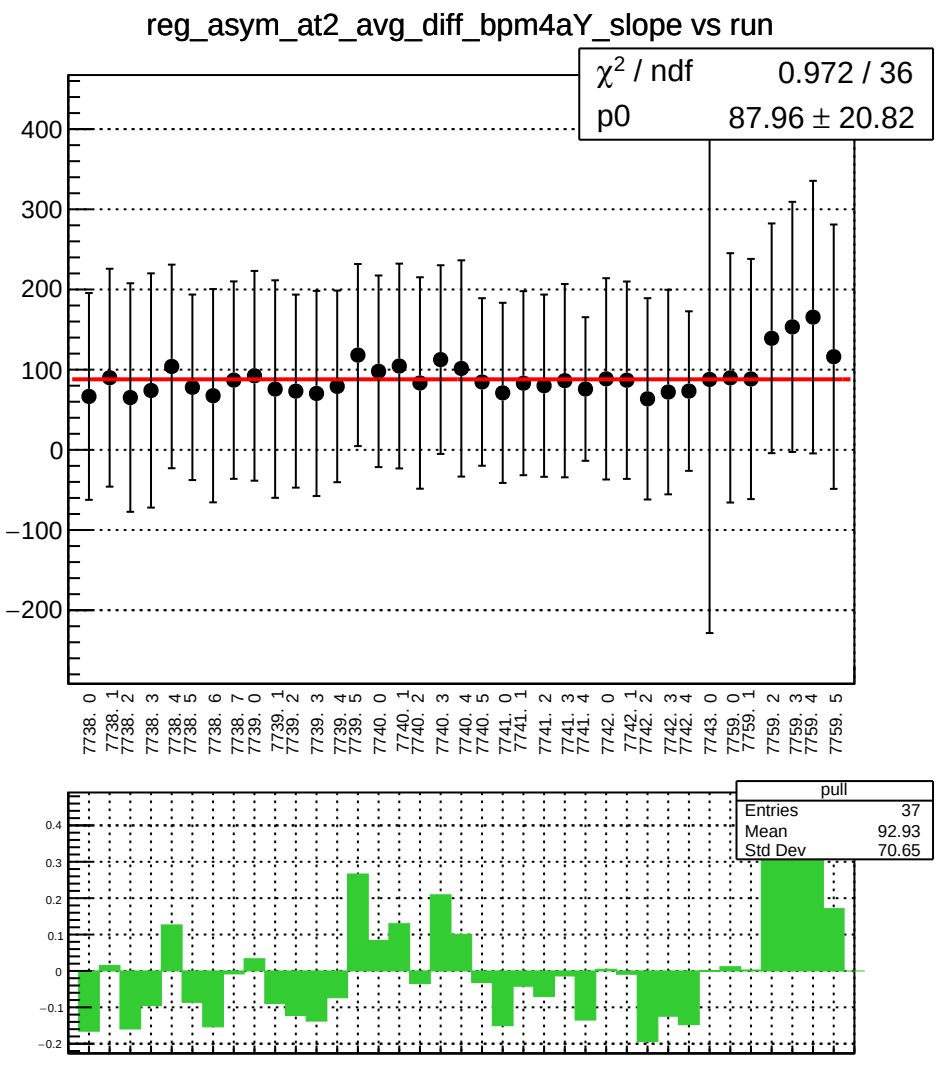

pull1D
Entries 37
Mean 0.01418
Std Dev 0.8256

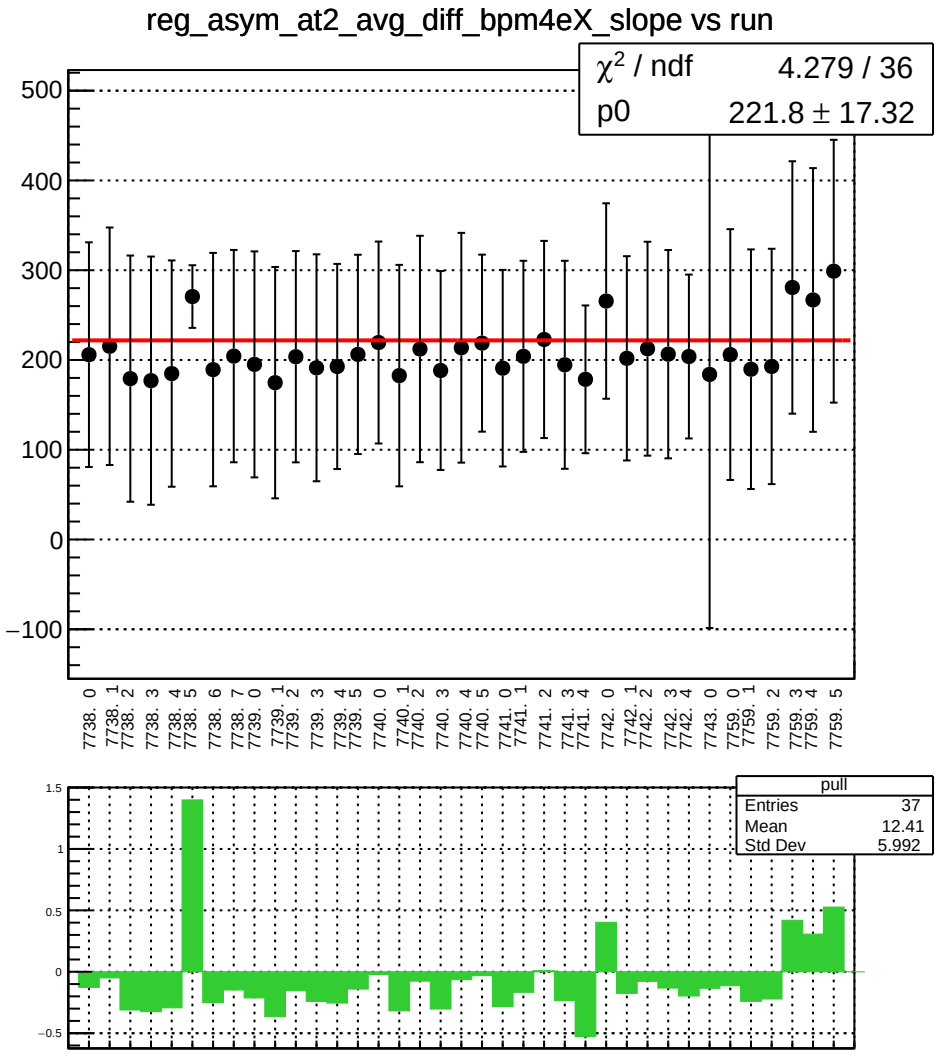

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 189.9 / 36
p0 24.13 ± 0.1728
pull
Entries 37
Mean −157
Std Dev 184.7

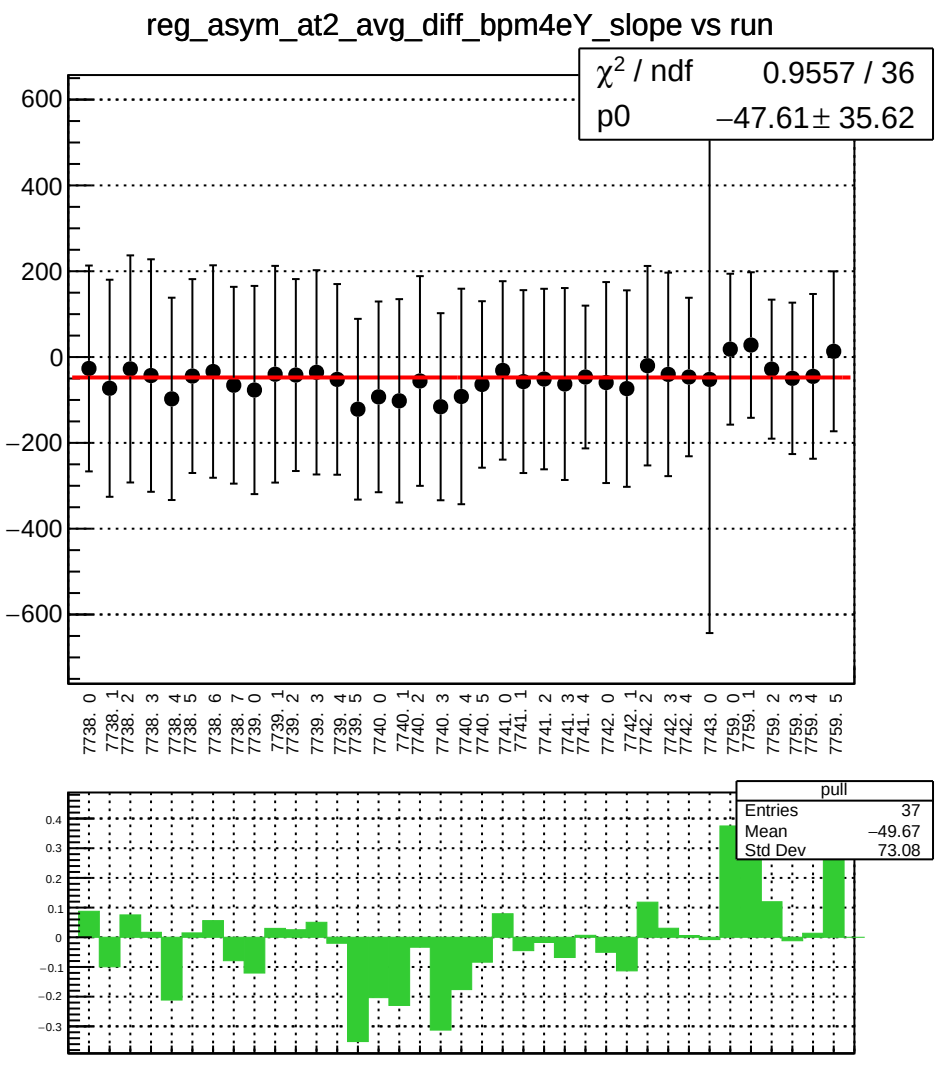

pull1D
Entries 37
Mean −0.2645
Std Dev 1.852

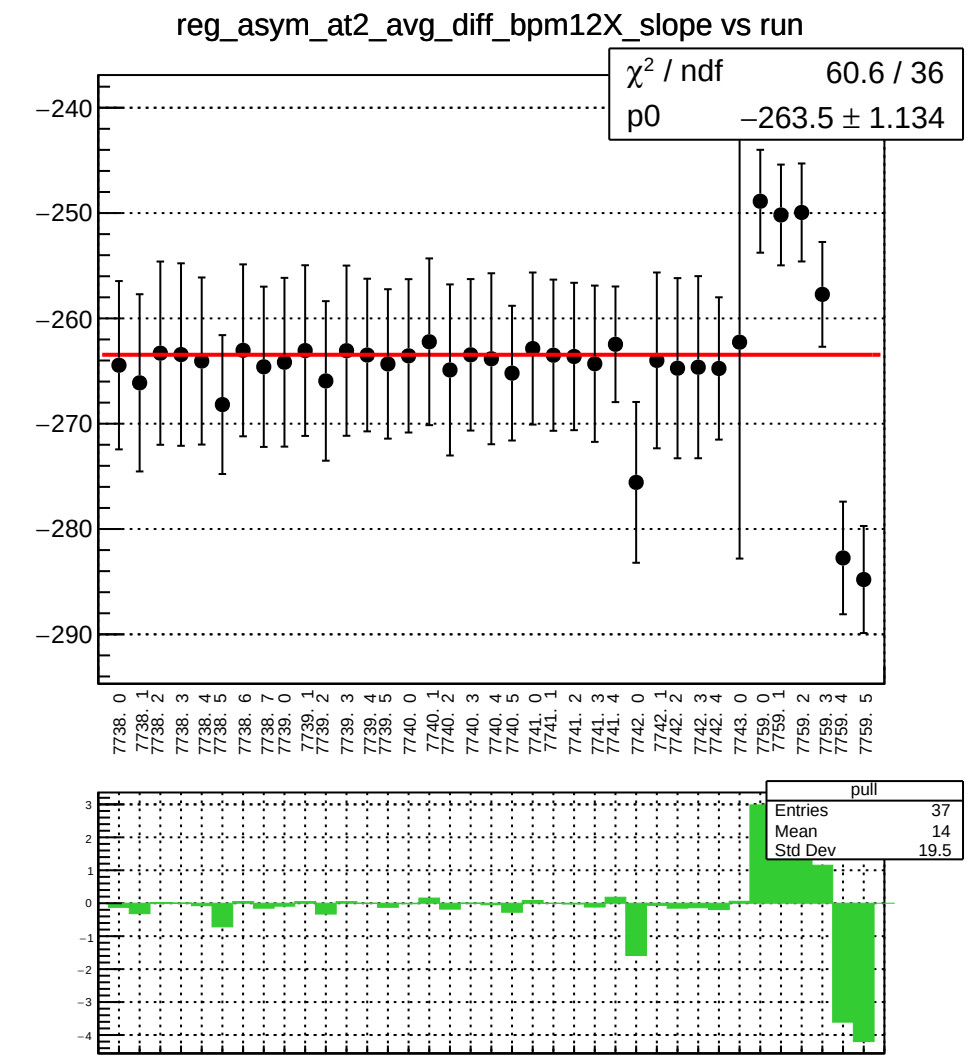

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 4.123 / 36
p0 −187.4 ± 17.64
100
0
−100
−200
−300
−400
−500
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −1.84
Std Dev 23.33
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

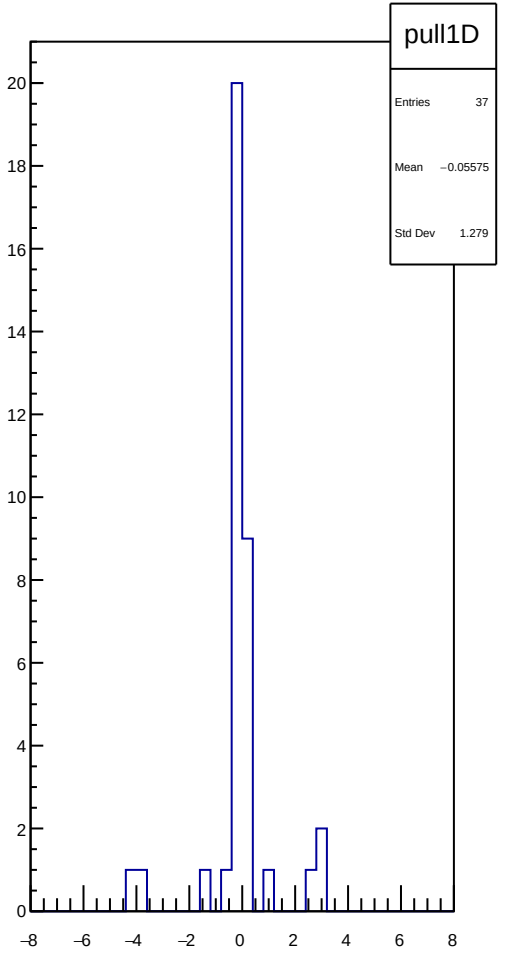

pull1D
Entries 37
Mean 0.05215
Std Dev 0.3297
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

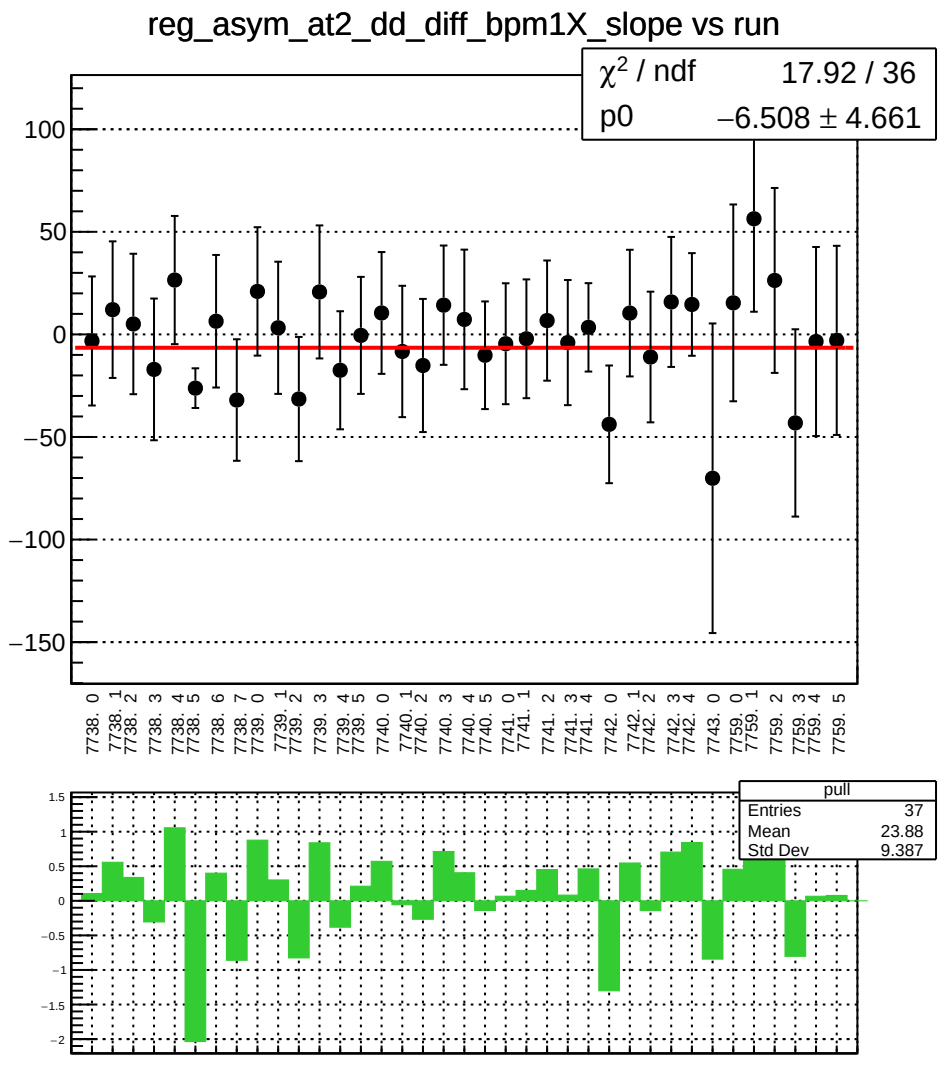

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.972 / 36
p0 87.96 ± 20.82
400
300
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 92.93
Std Dev 70.65
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 37
Mean 0.009247
Std Dev 0.1618
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

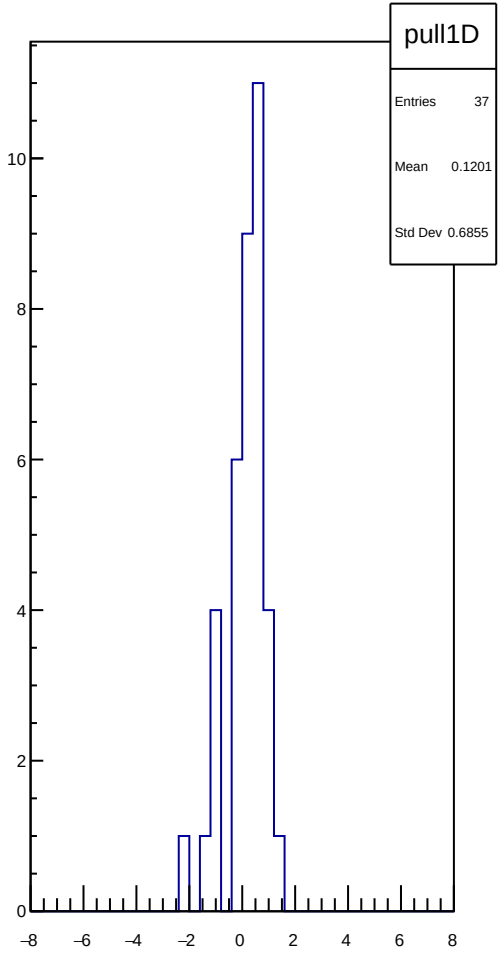

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.279 / 36
p0 221.8 ± 17.32
500
400
300
200
100
0
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 12.41
Std Dev 5.992
1.5
1
0.5
0
−0.5
pull1D
Entries 37
Mean −0.08457
Std Dev 0.3294
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

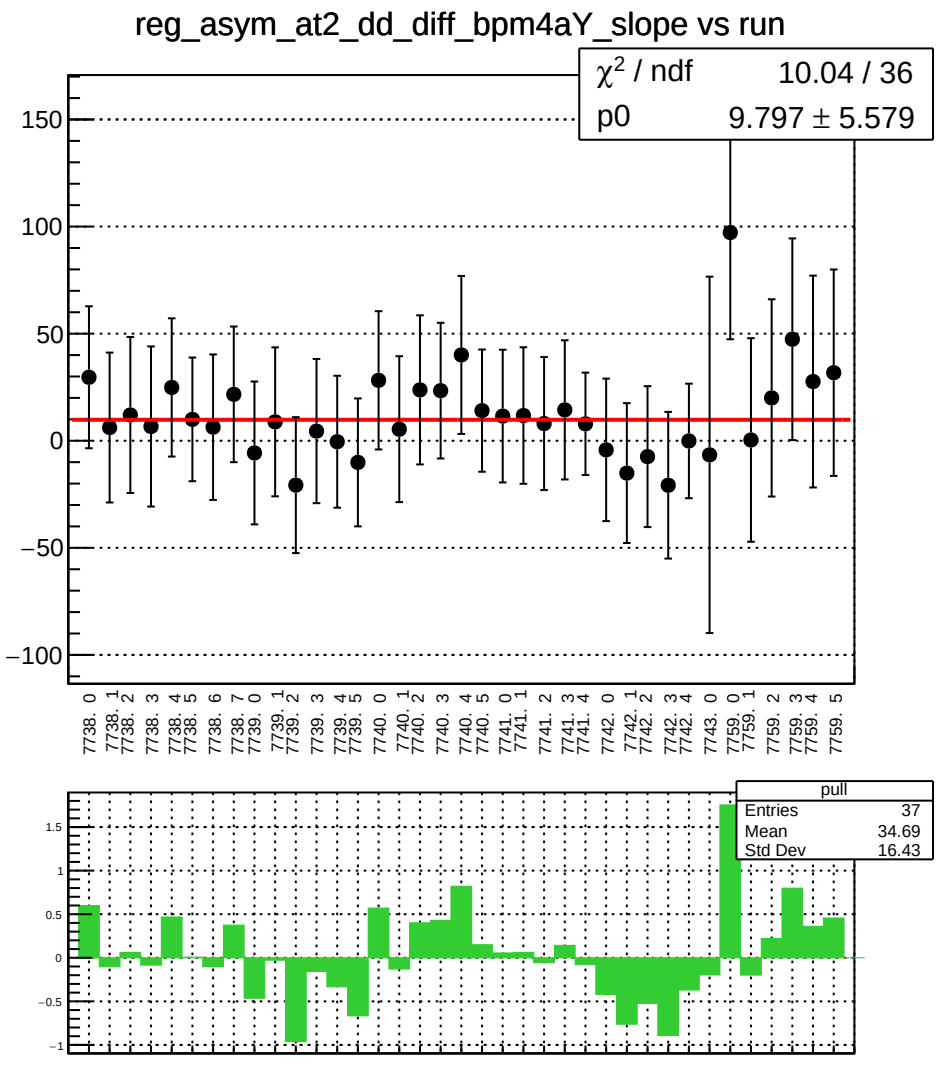

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 0.9557 / 36
p0 −47.61 ± 35.62
600
400
200
0
−200
−400
−600
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −49.67
Std Dev 73.08
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 37
Mean −0.009618
Std Dev 0.1604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

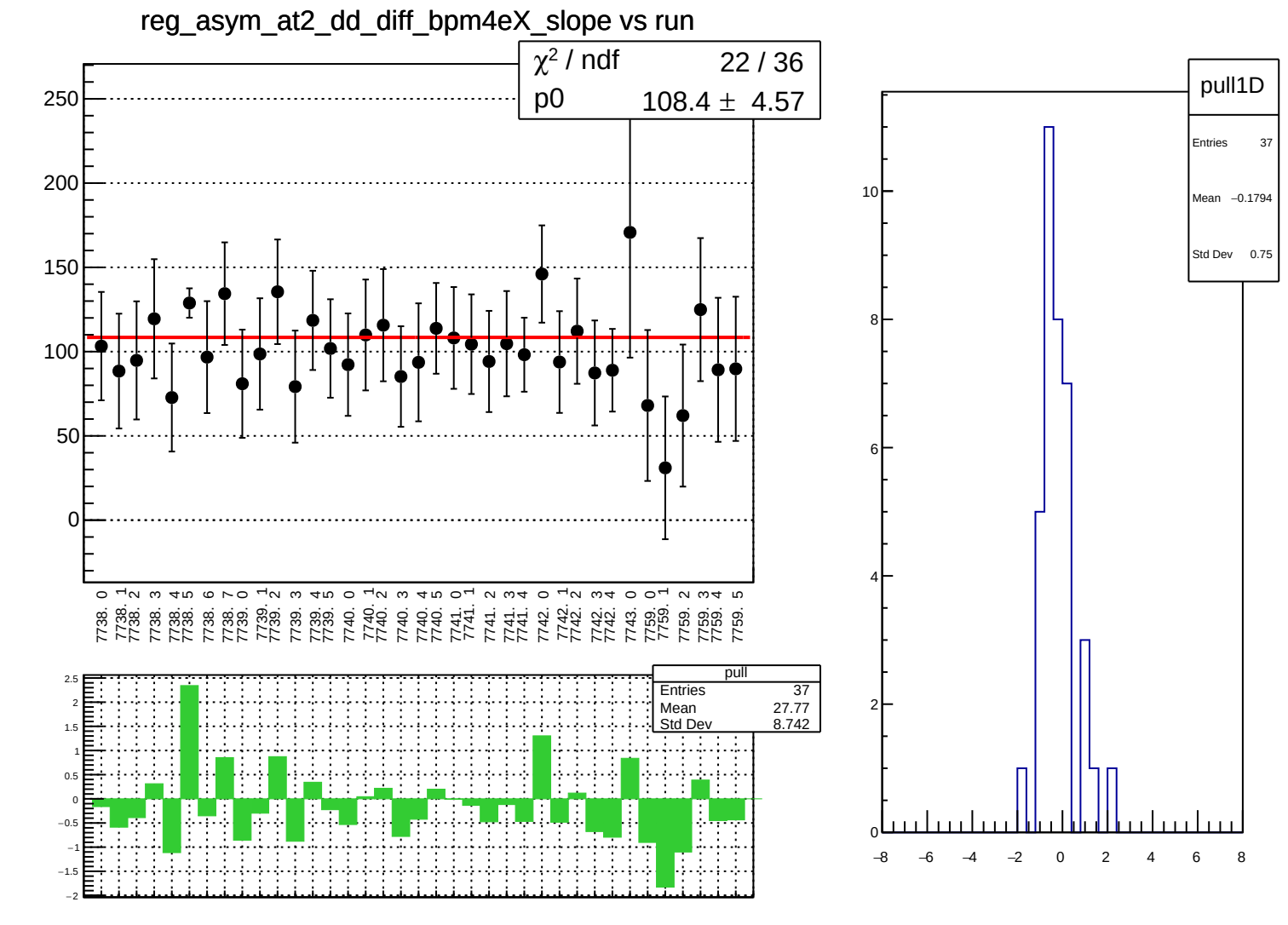

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 60.6 / 36
p0 −263.5 ± 1.134
−240
−250
−260
−270
−280
−290
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 14
Std Dev 19.5
3
2
1
0
−1
−2
−3
−4

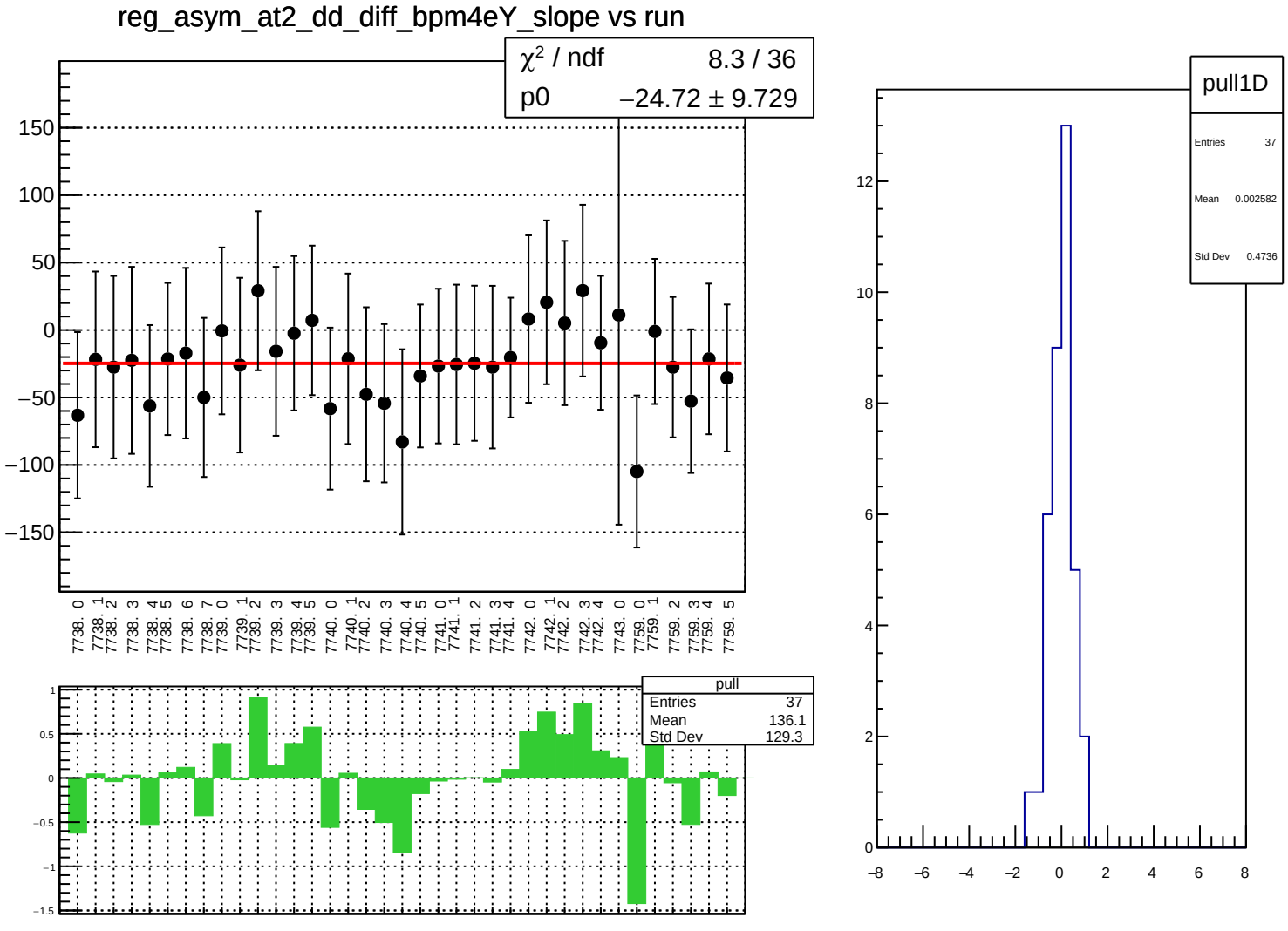

pull1D
Entries 37
Mean −0.05575
Std Dev 1.279
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

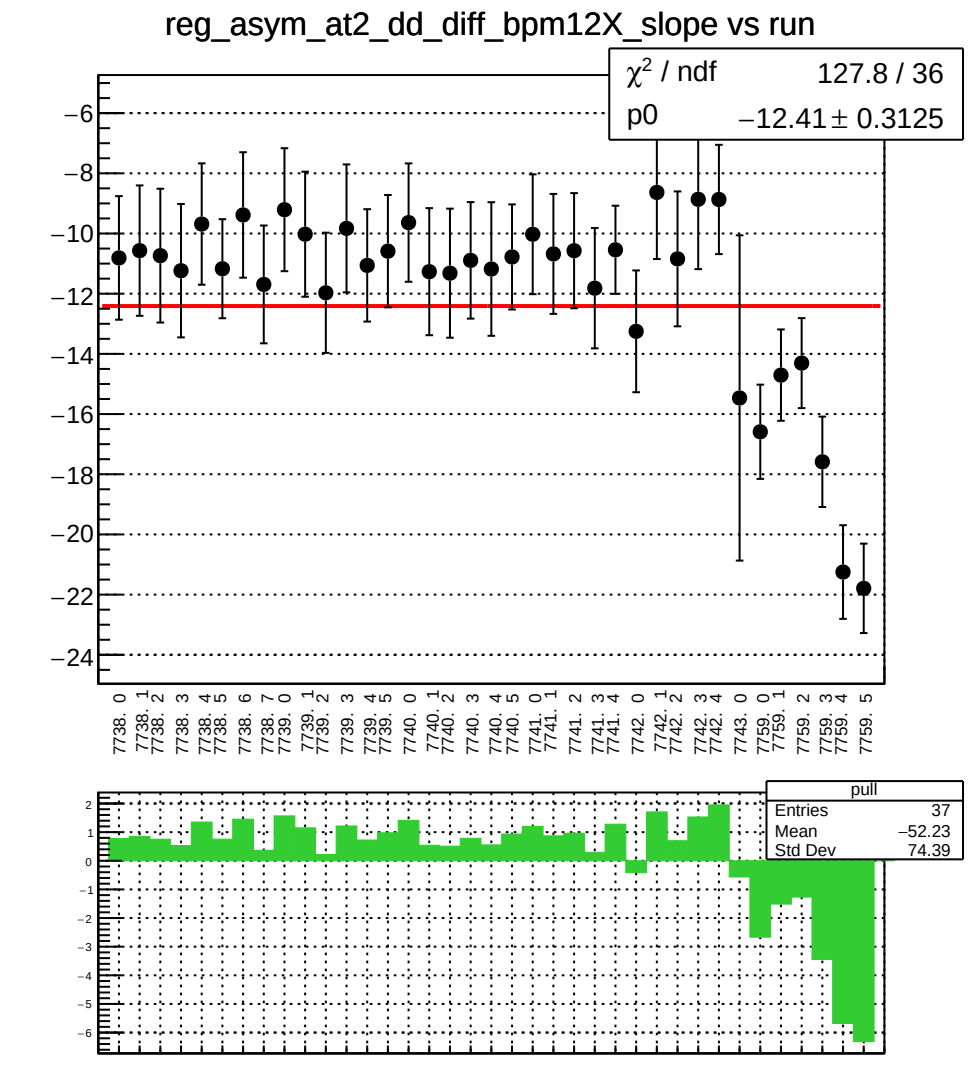

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.92 / 36
p0 −6.508 ± 4.661
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.88
Std Dev 9.387
1.5
1
0.5
0
−0.5
−1
−1.5
−2

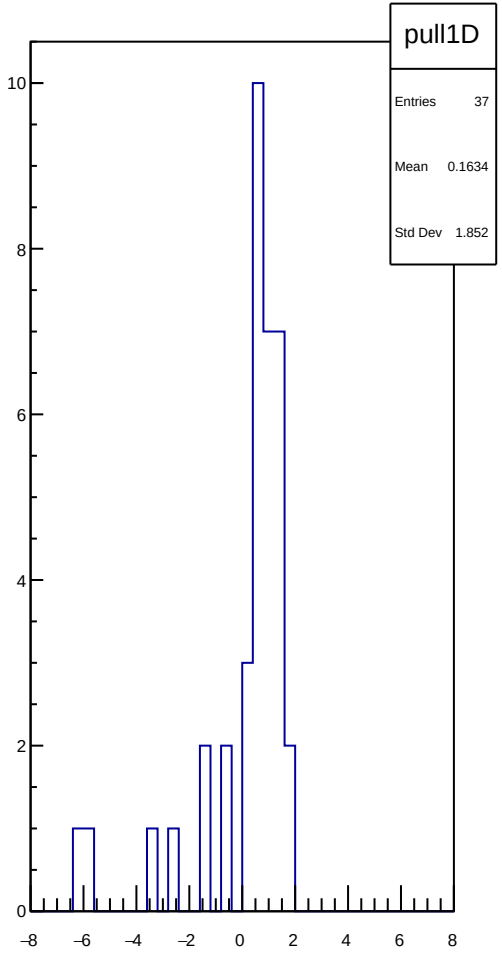

pull1D
Entries 37
Mean 0.1201
Std Dev 0.6855
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

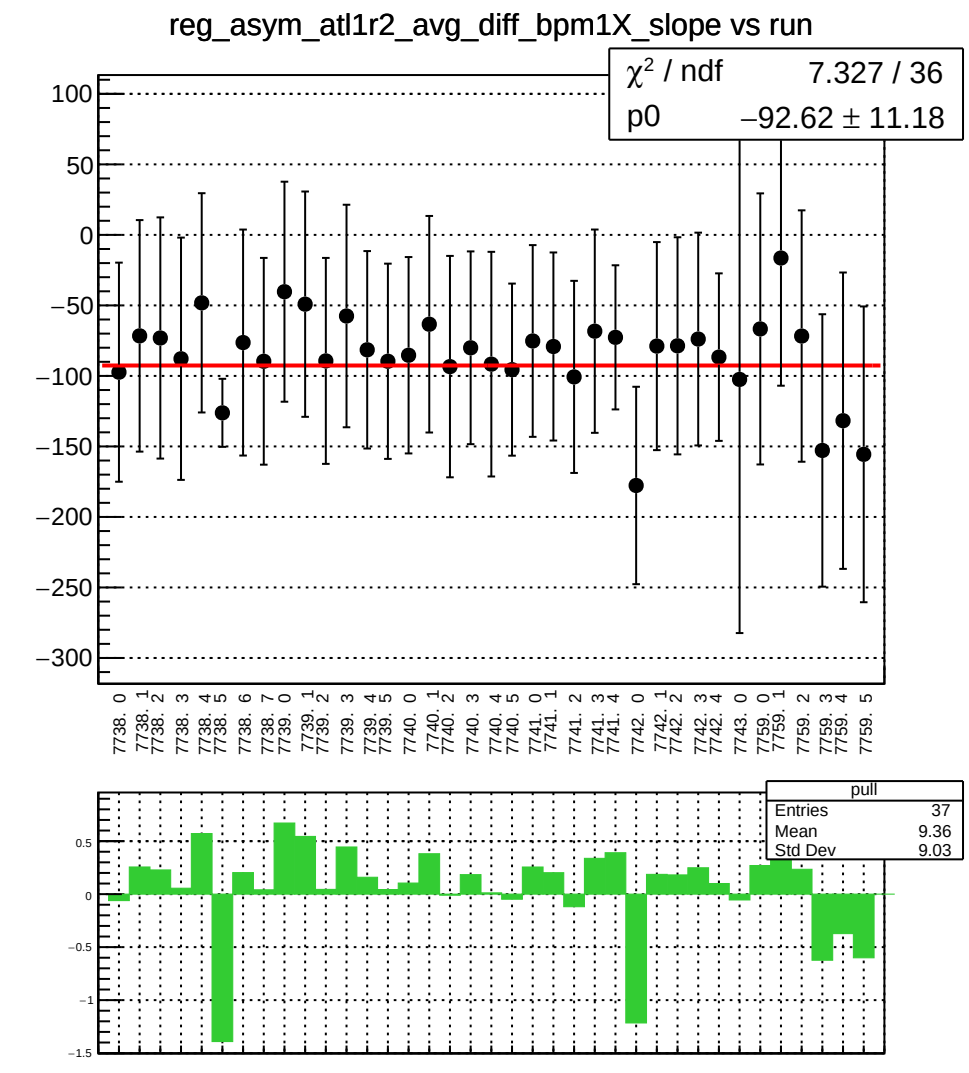

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.04 / 36
p0 9.797 ± 5.579
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.69
Std Dev 16.43
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.03241
Std Dev 0.5198
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

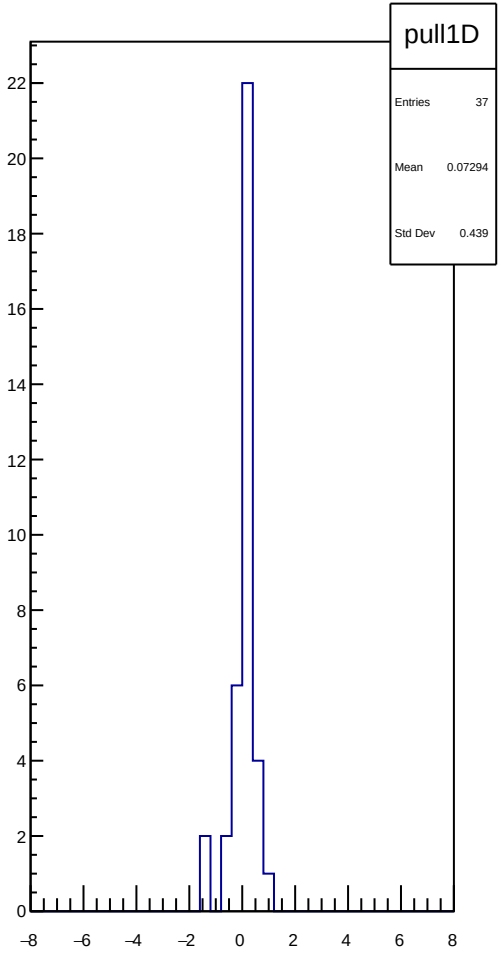

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22 / 36
p0 108.4 ± 4.57
250
200
150
100
50
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 27.77
Std Dev 8.742
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 37
Mean −0.1794
Std Dev 0.75
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

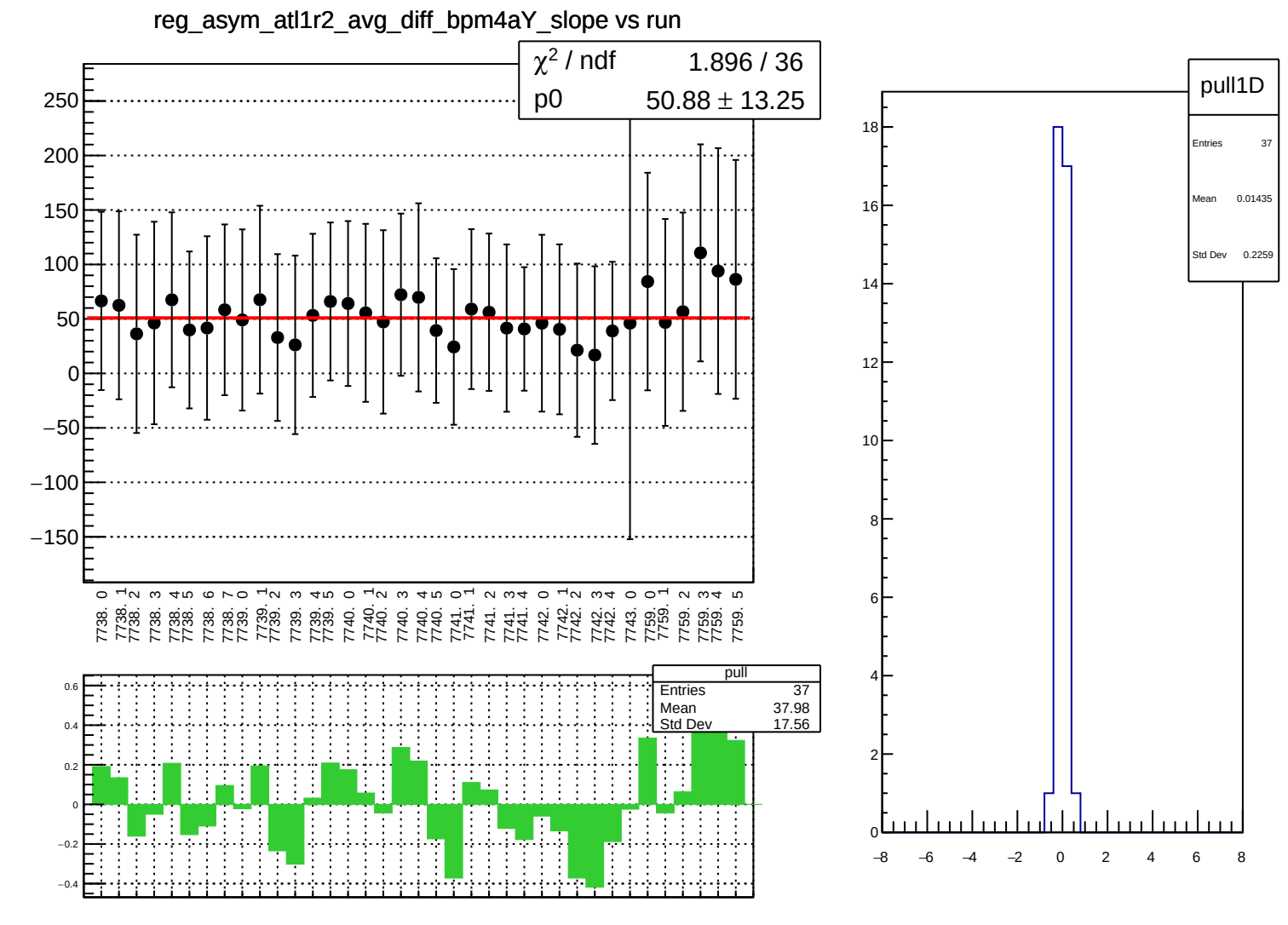

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.3 / 36
p0 −24.72 ± 9.729
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 136.1
Std Dev 129.3
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.002582
Std Dev 0.4736
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

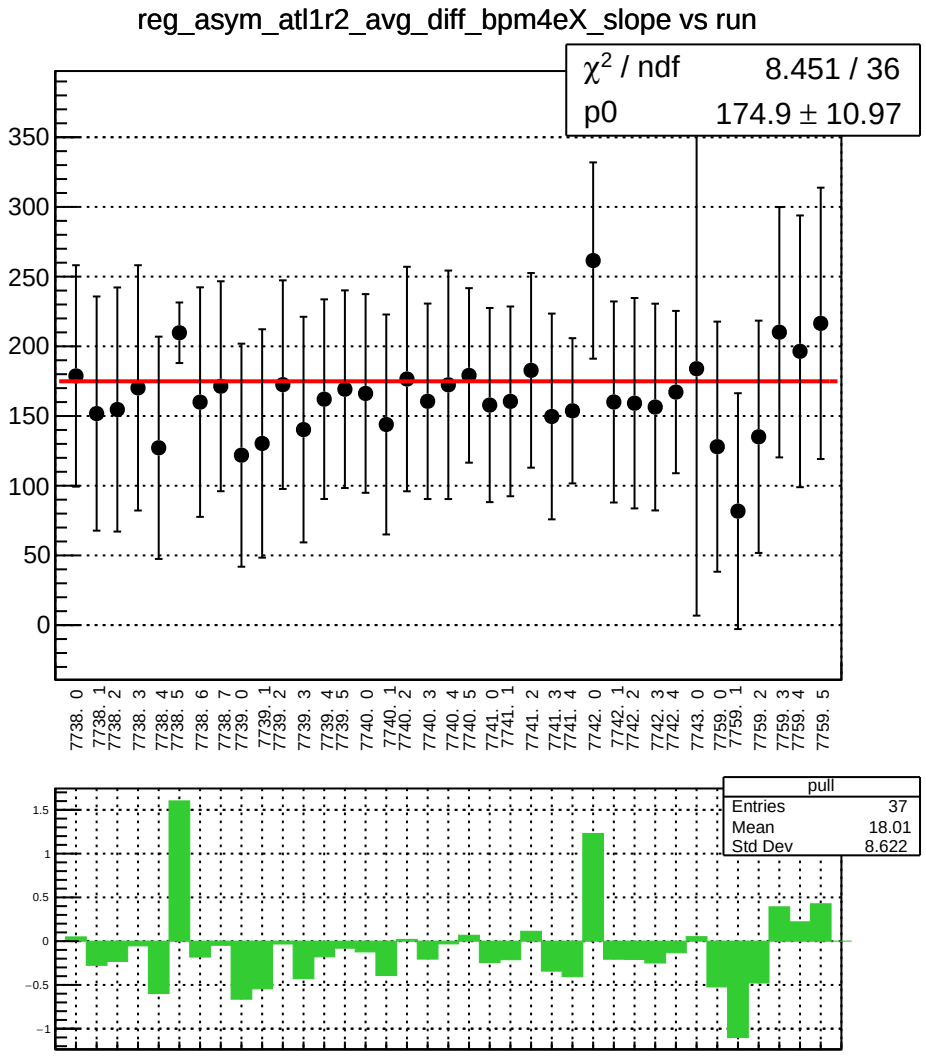

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 127.8 / 36
p0 −12.41 ± 0.3125
pull
Entries 37
Mean −52.23
Std Dev 74.39

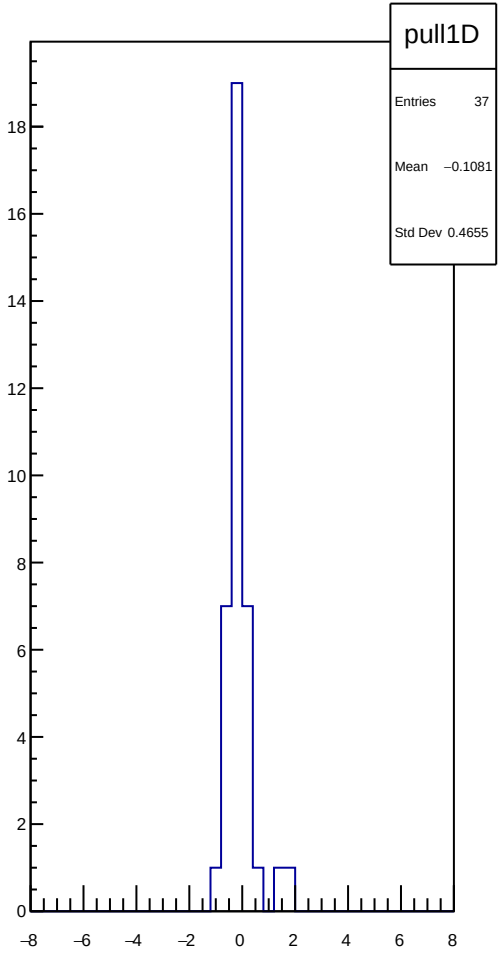

pull1D
Entries 37
Mean 0.1634
Std Dev 1.852

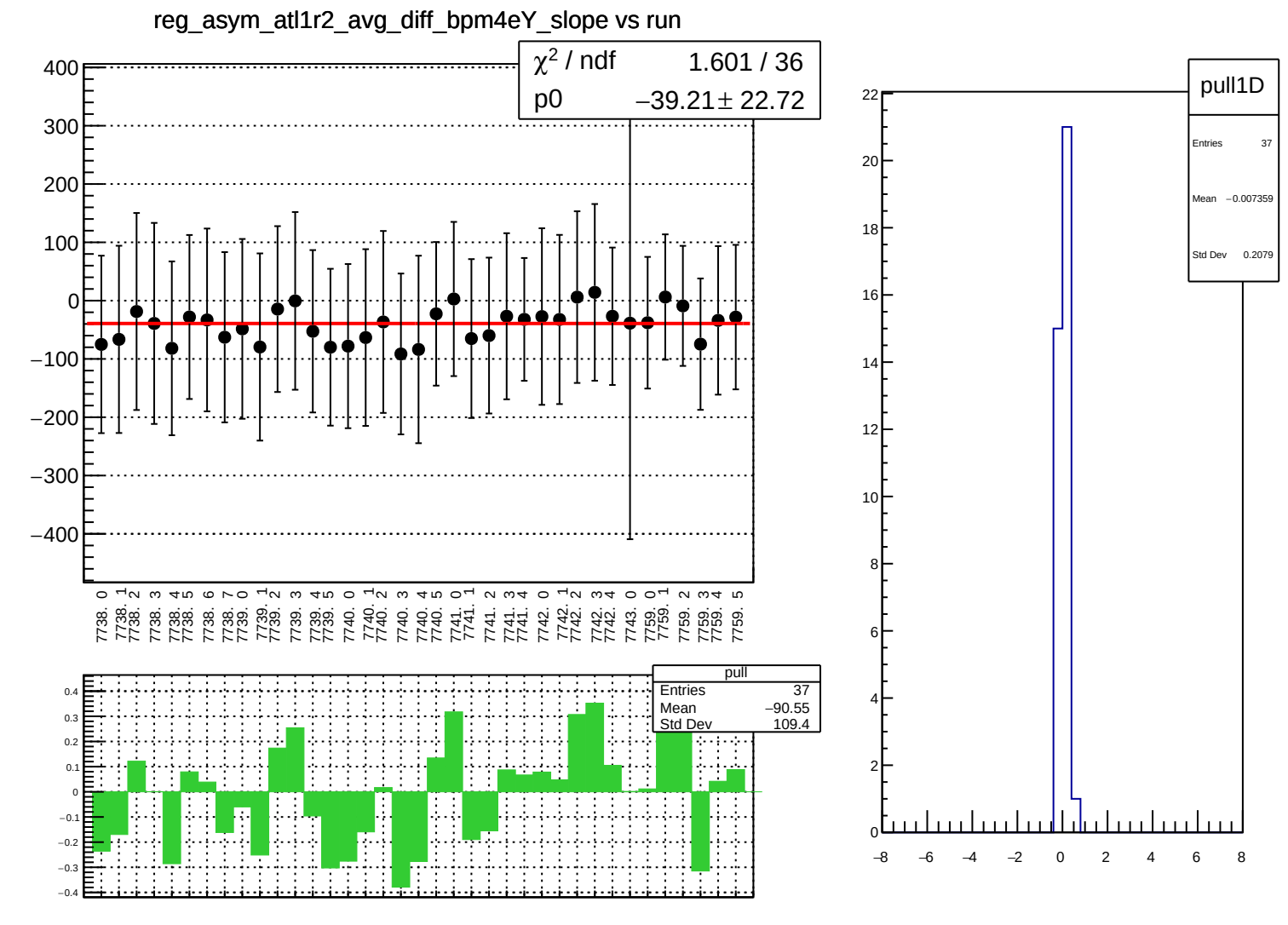

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.327 / 36
p0 −92.62 ± 11.18
pull
Entries 37
Mean 9.36
Std Dev 9.03

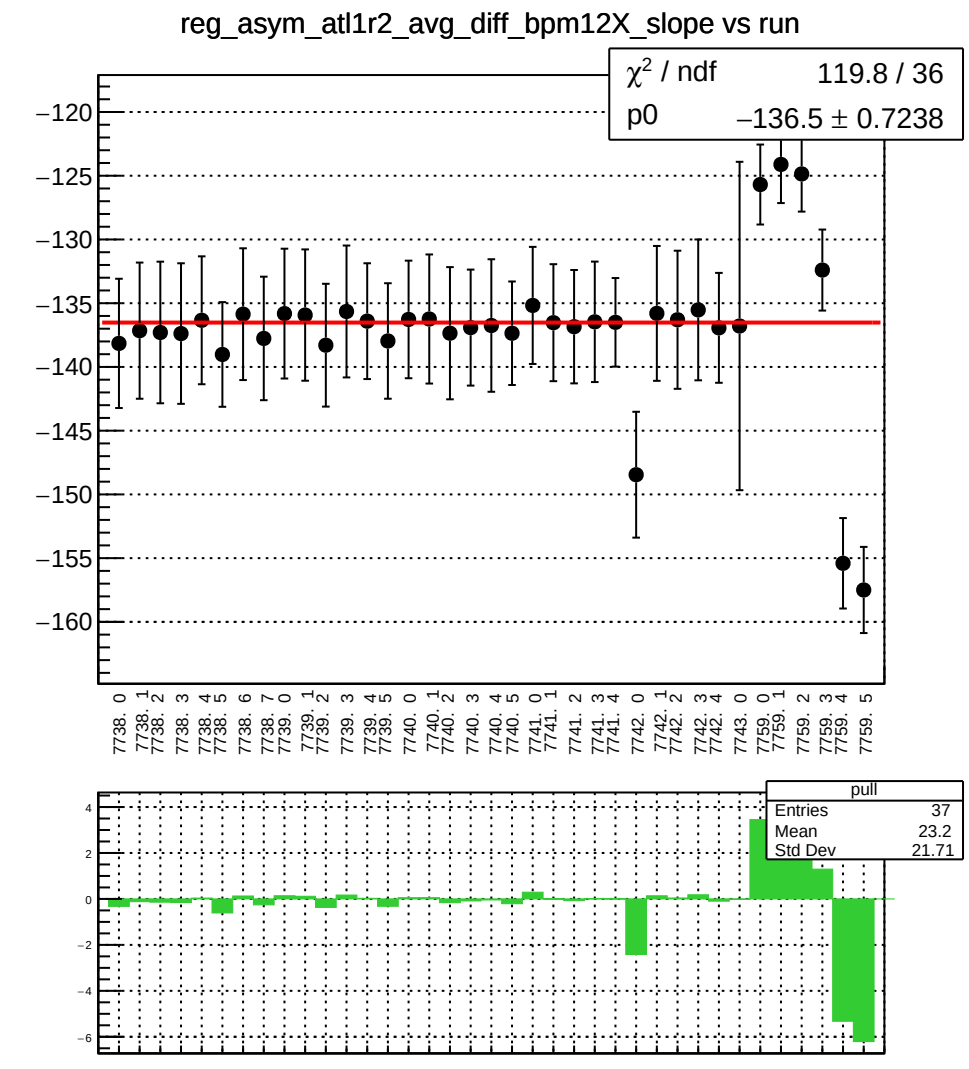

pull1D
Entries 37
Mean 0.07294
Std Dev 0.439

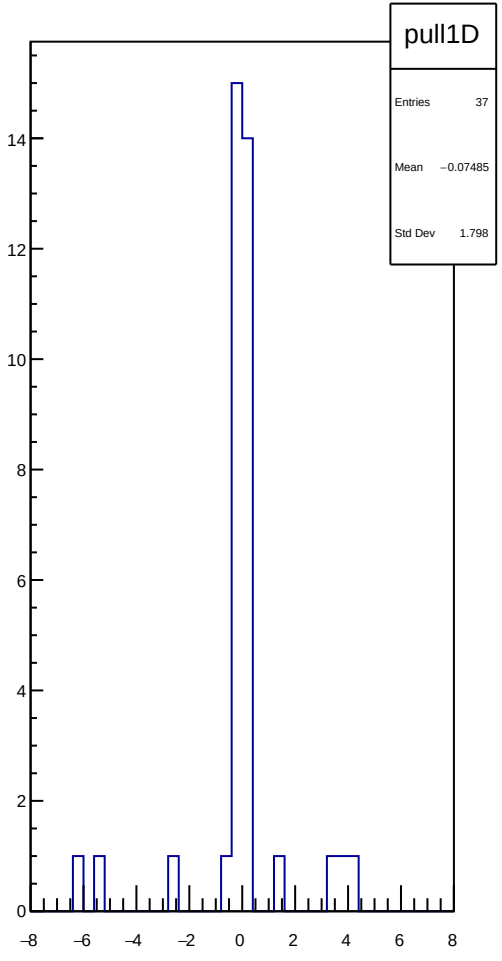

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.896 / 36
p0 50.88 ± 13.25
250
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 37.98
Std Dev 17.56
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.01435
Std Dev 0.2259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

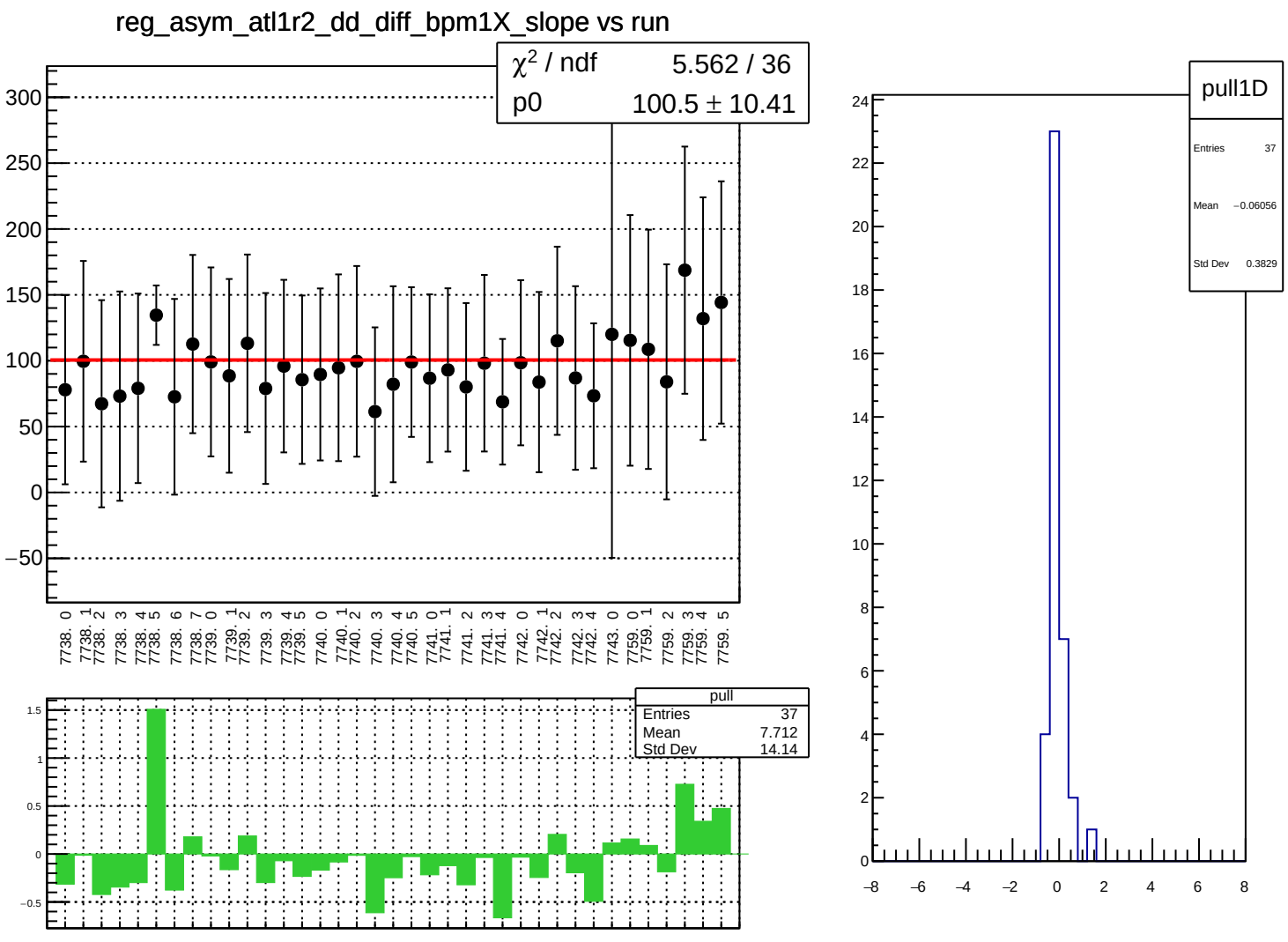

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.451 / 36
p0 174.9 ± 10.97
350
300
250
200
150
100
50
0
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 18.01
Std Dev 8.622
1.5
1
0.5
0
−0.5
−1

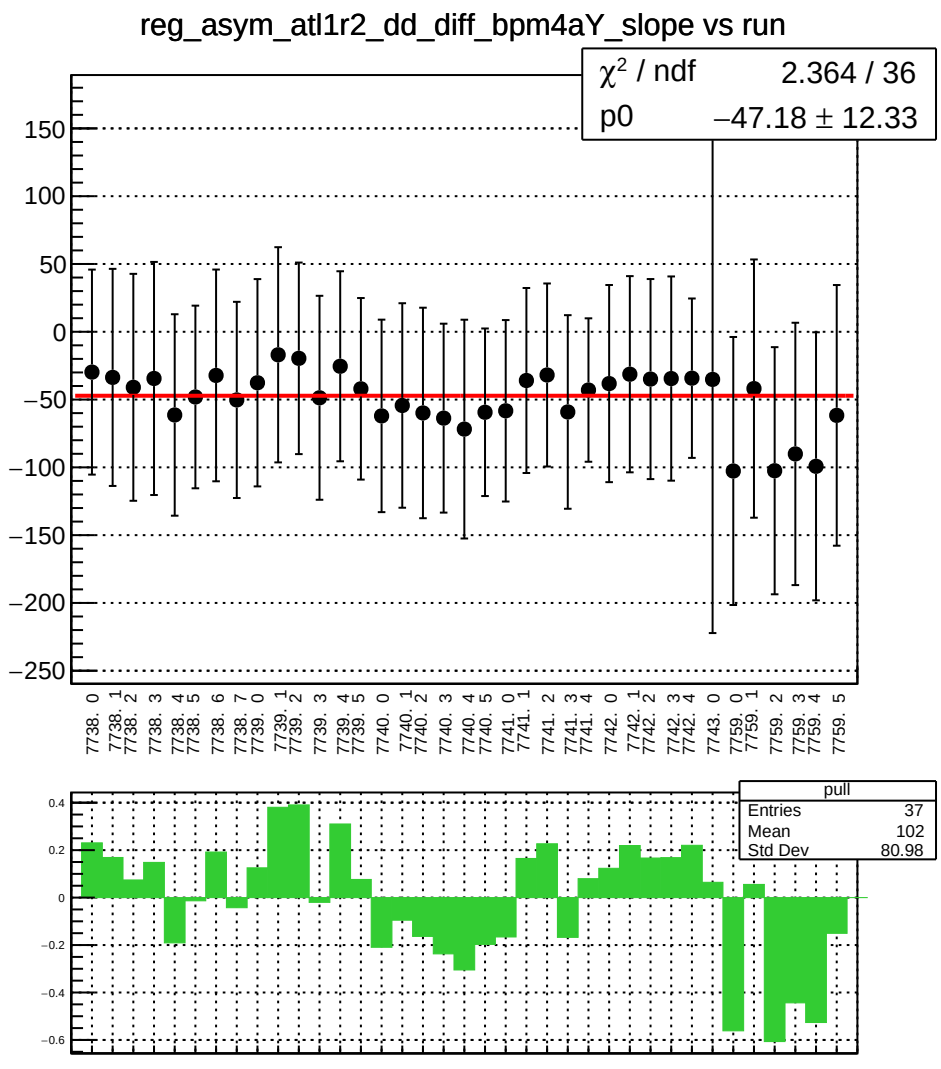

pull1D
Entries 37
Mean −0.1081
Std Dev 0.4655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

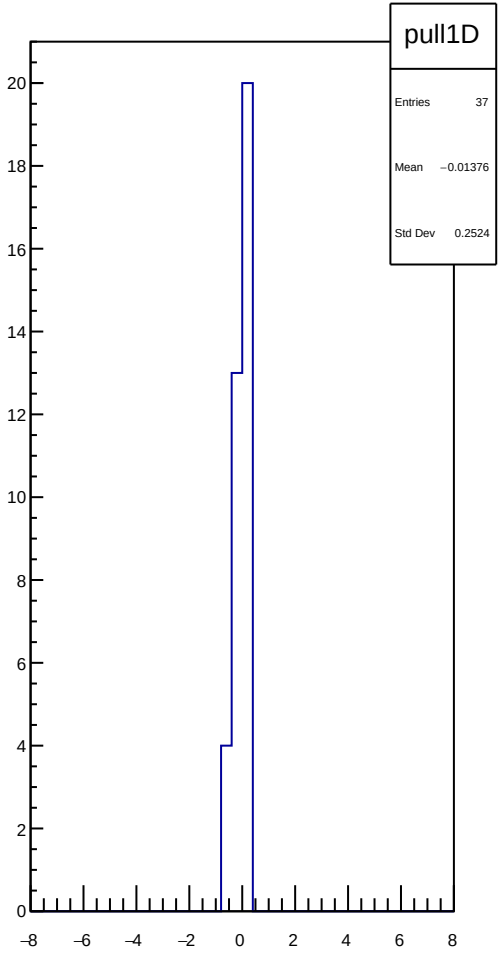

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.601 / 36
p0 −39.21± 22.72
pull
Entries 37
Mean −90.55
Std Dev 109.4
pull1D
Entries 37
Mean −0.007359
Std Dev 0.2079

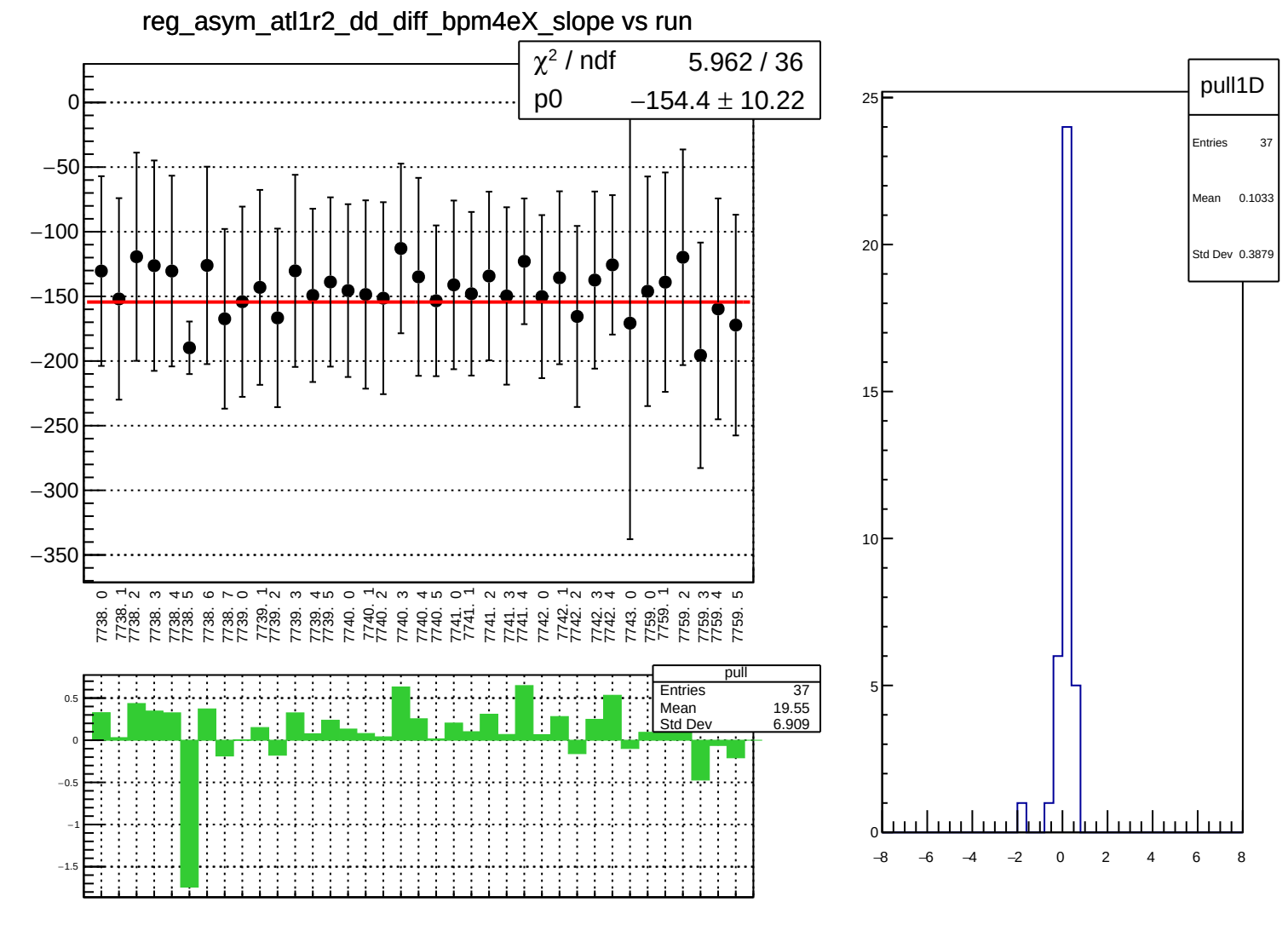

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 119.8 / 36
p0 −136.5 ± 0.7238
pull
Entries 37
Mean 23.2
Std Dev 21.71

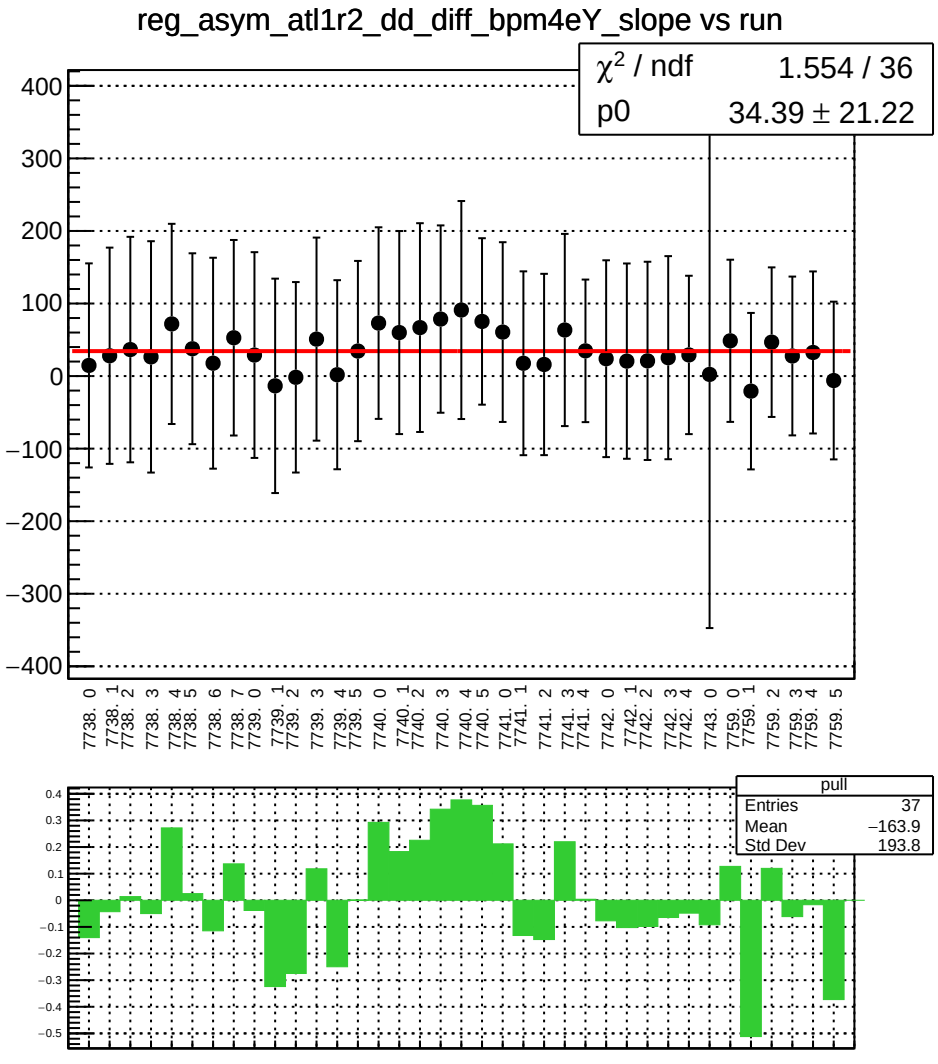

pull1D
Entries 37
Mean −0.07485
Std Dev 1.798

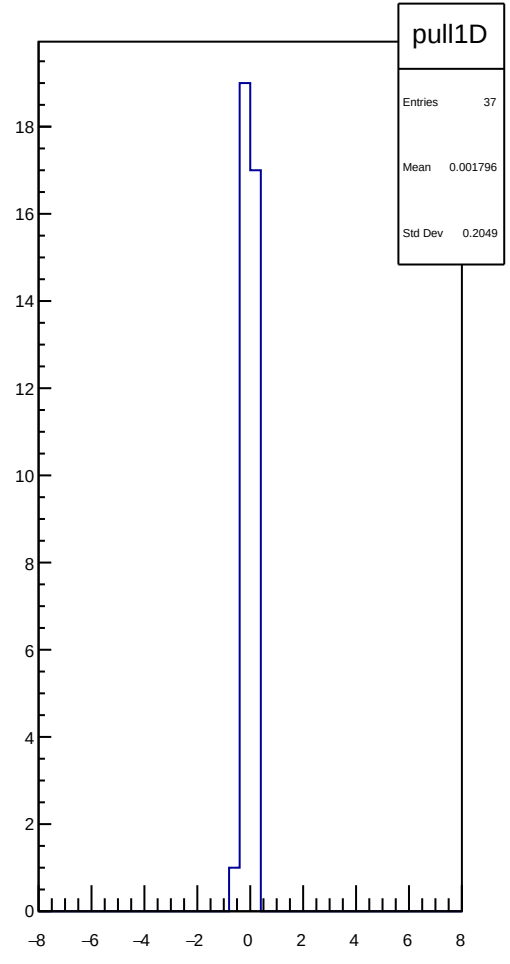

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 5.562 / 36
p0 100.5 ± 10.41
pull
Entries 37
Mean 7.712
Std Dev 14.14
pull1D
Entries 37
Mean −0.06056
Std Dev 0.3829

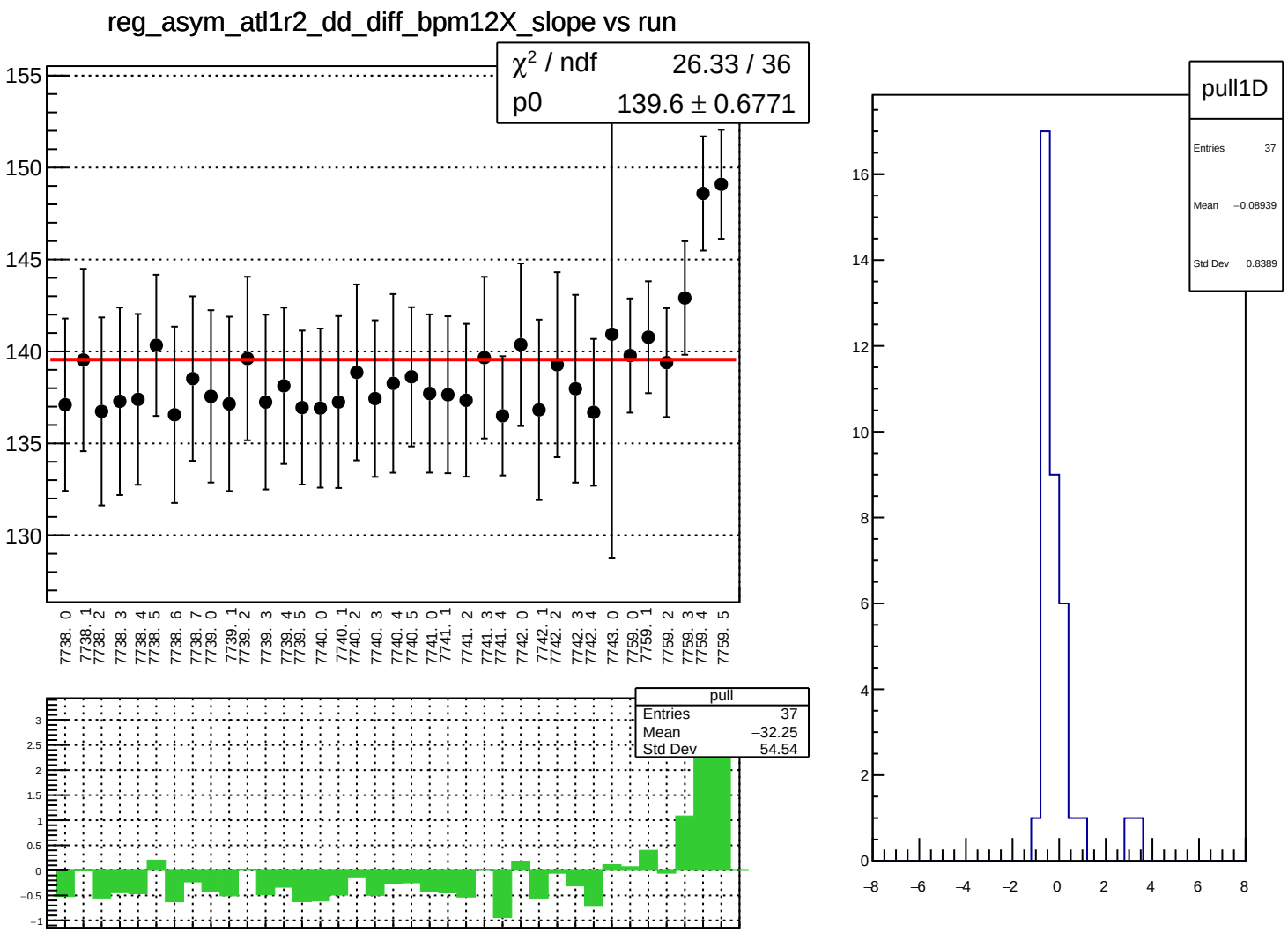

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.364 / 36
p0 −47.18 ± 12.33
150
100
50
0
−50
−100
−150
−200
−250
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 102
Std Dev 80.98
0.4
0.2
0
−0.2
−0.4
−0.6

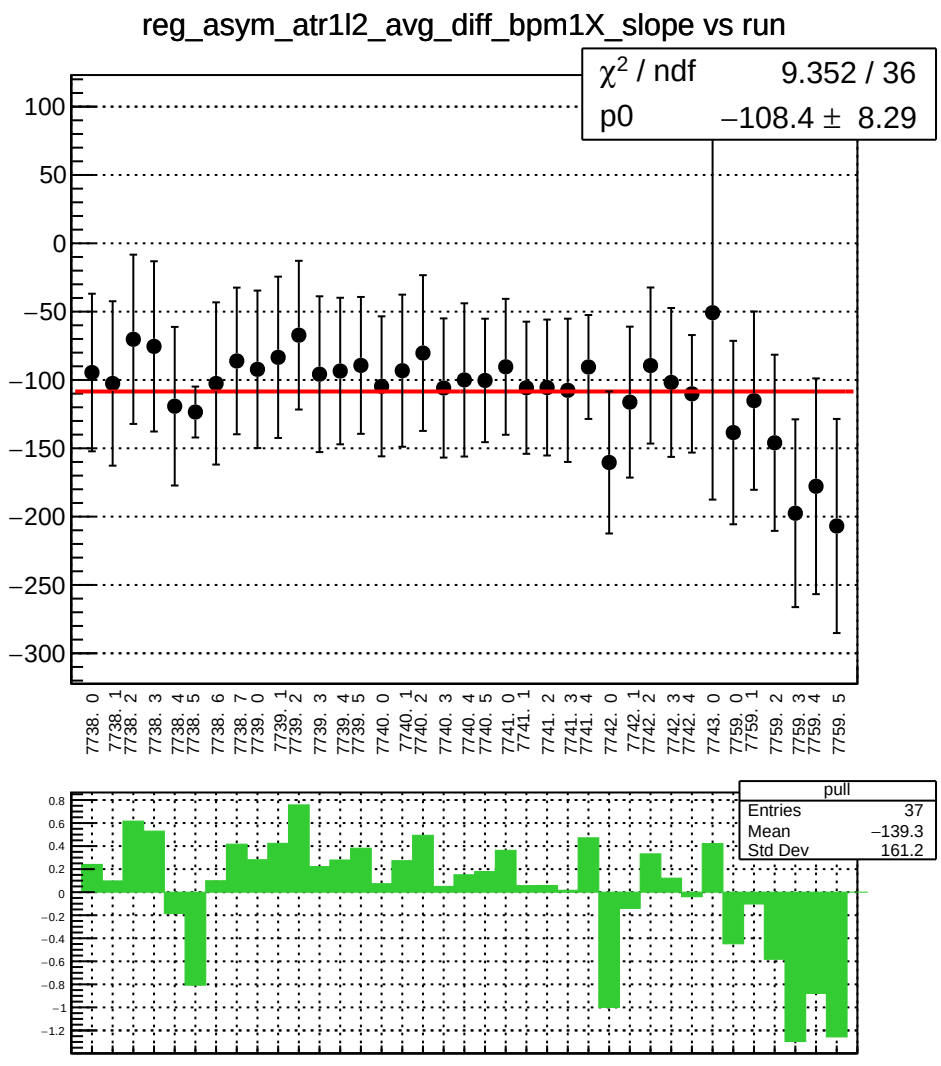

pull1D
Entries 37
Mean −0.01376
Std Dev 0.2524
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

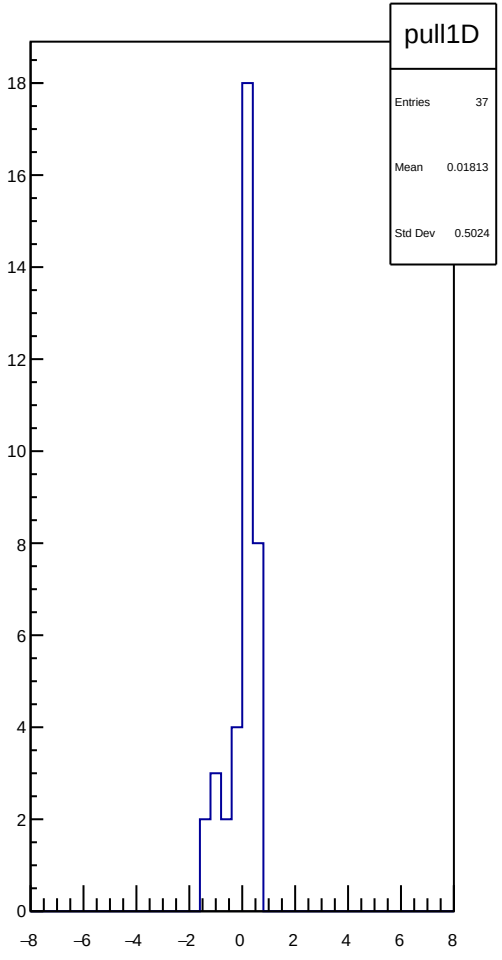

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.962 / 36
p0 −154.4 ± 10.22
0
−50
−100
−150
−200
−250
−300
−350
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 19.55
Std Dev 6.909
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.1033
Std Dev 0.3879
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

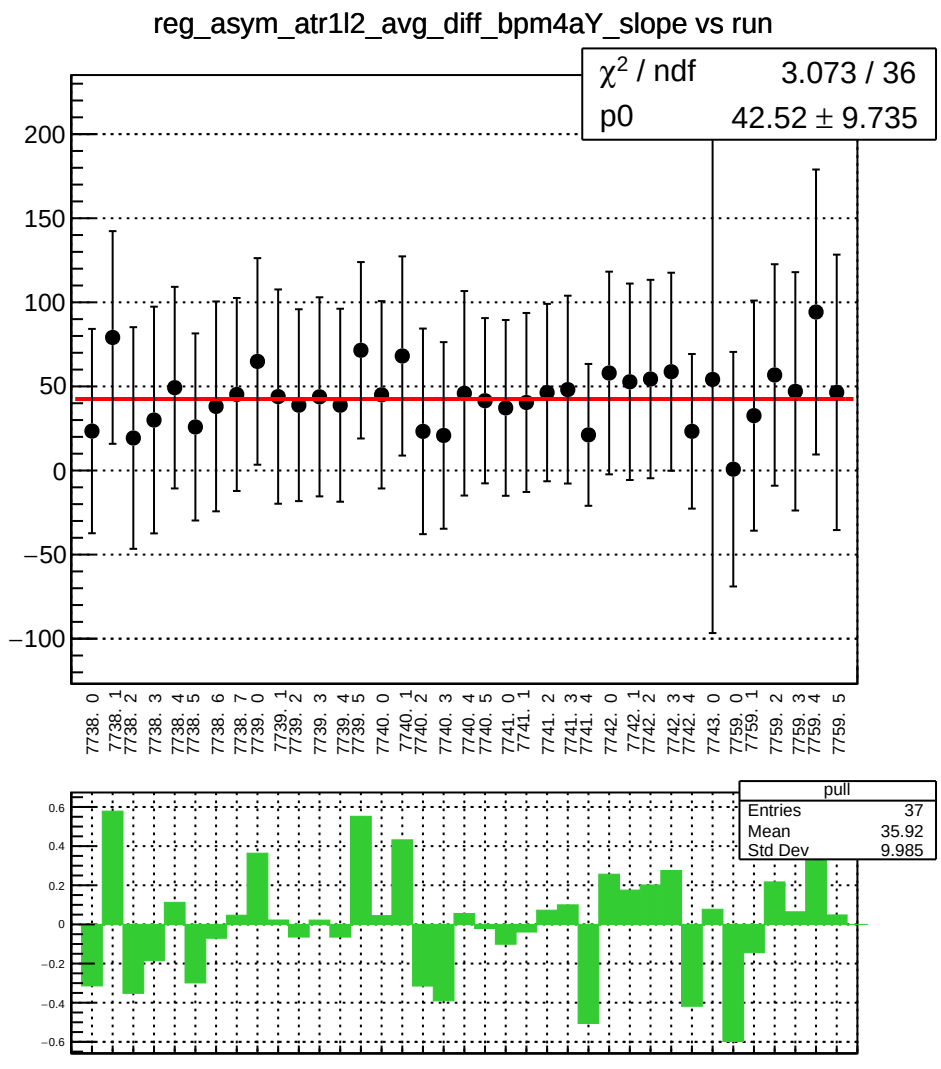

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.554 / 36
p0 34.39 ± 21.22
pull
Entries 37
Mean −163.9
Std Dev 193.8

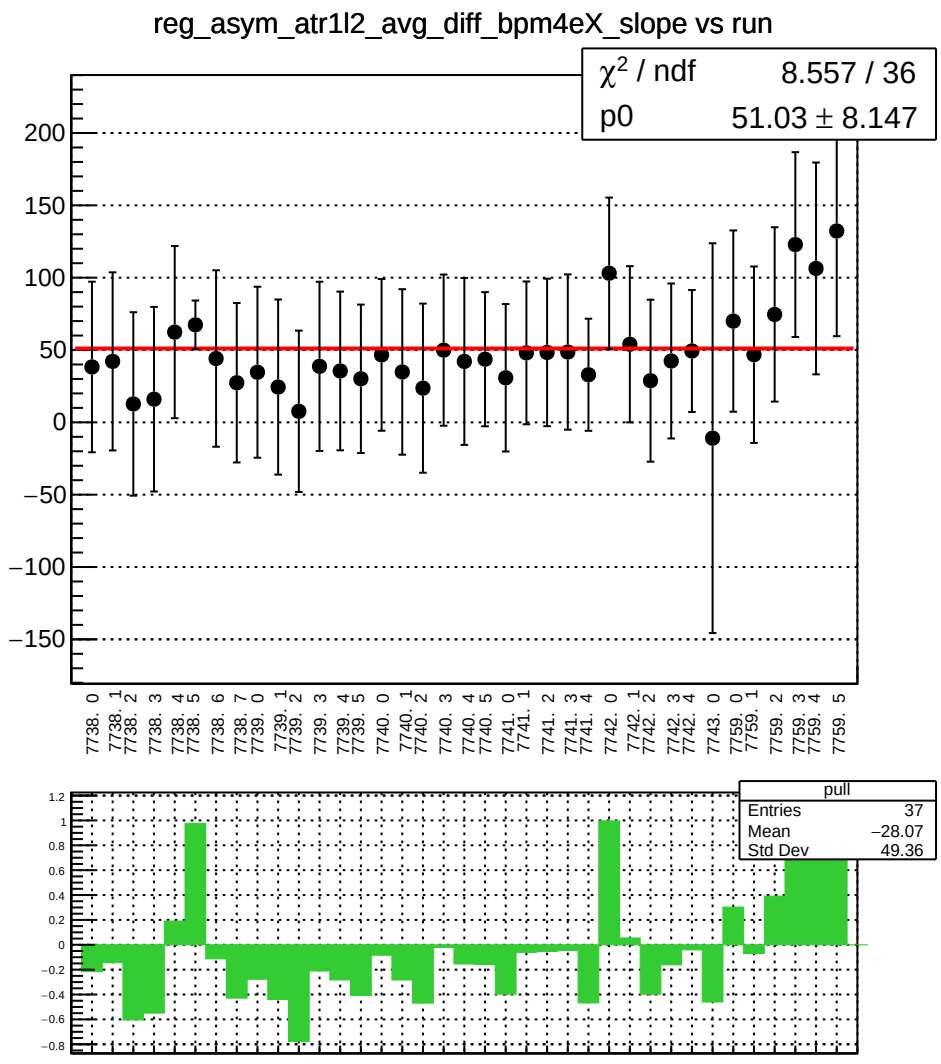

pull1D
Entries 37
Mean 0.001796
Std Dev 0.2049

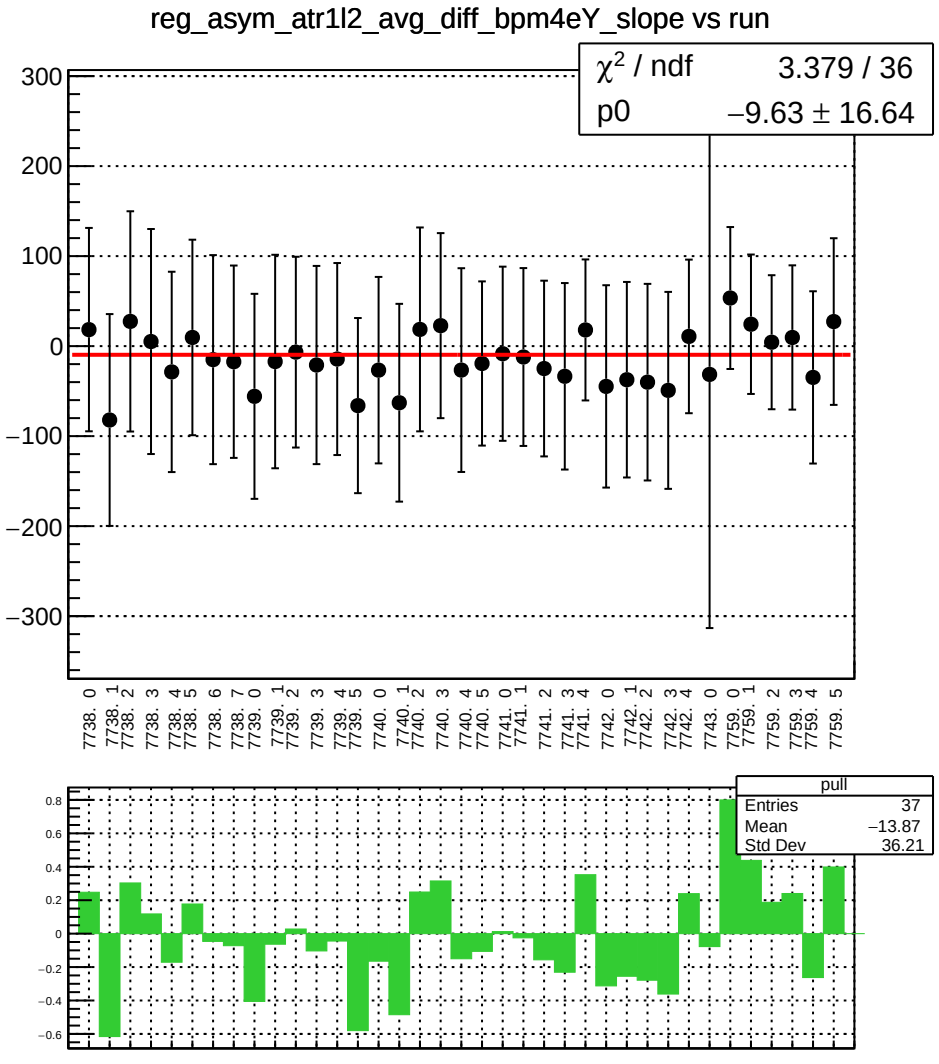

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 26.33 / 36
p0 139.6 ± 0.6771
155
150
145
140
135
130
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −32.25
Std Dev 54.54
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean −0.08939
Std Dev 0.8389
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

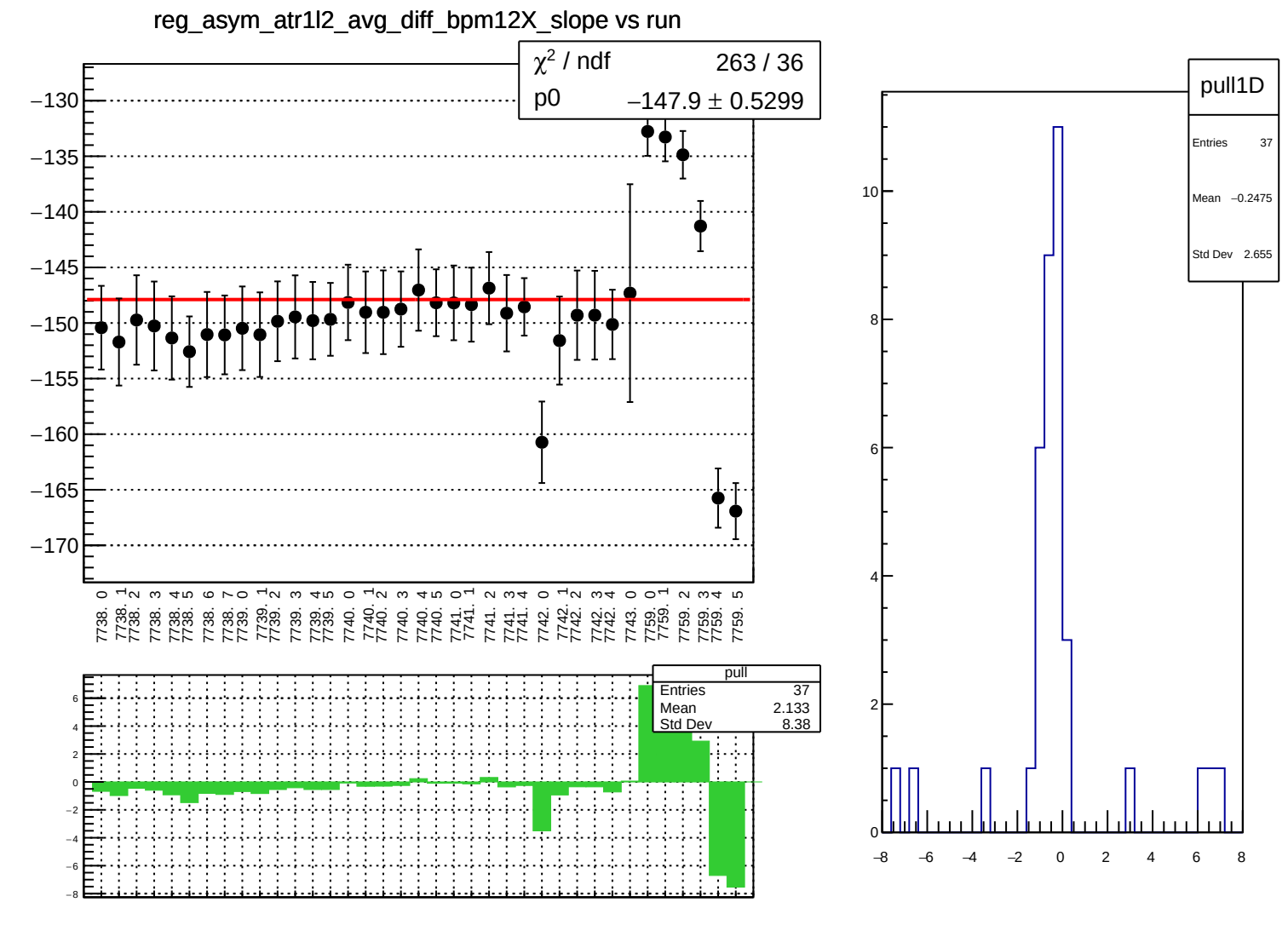

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.352 / 36
p0 −108.4 ± 8.29
100
50
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −139.3
Std Dev 161.2
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

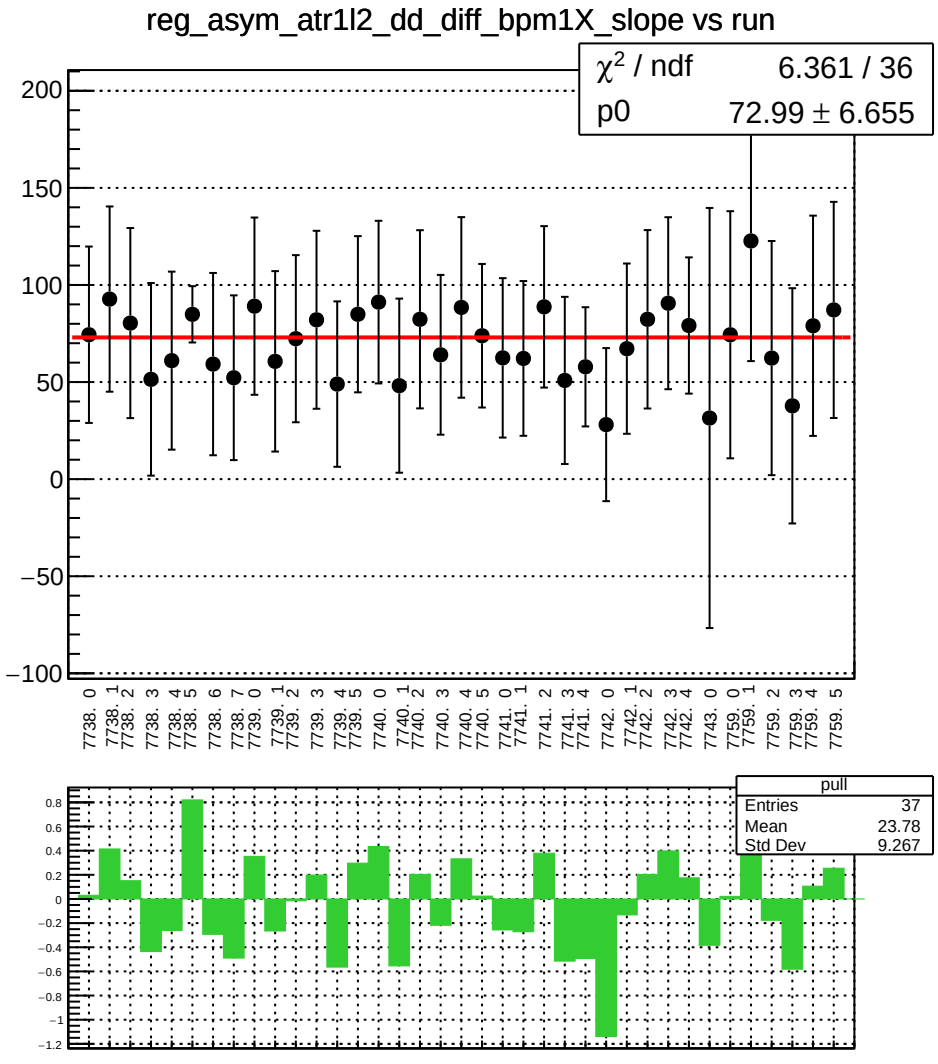

pull1D
Entries 37
Mean 0.01813
Std Dev 0.5024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

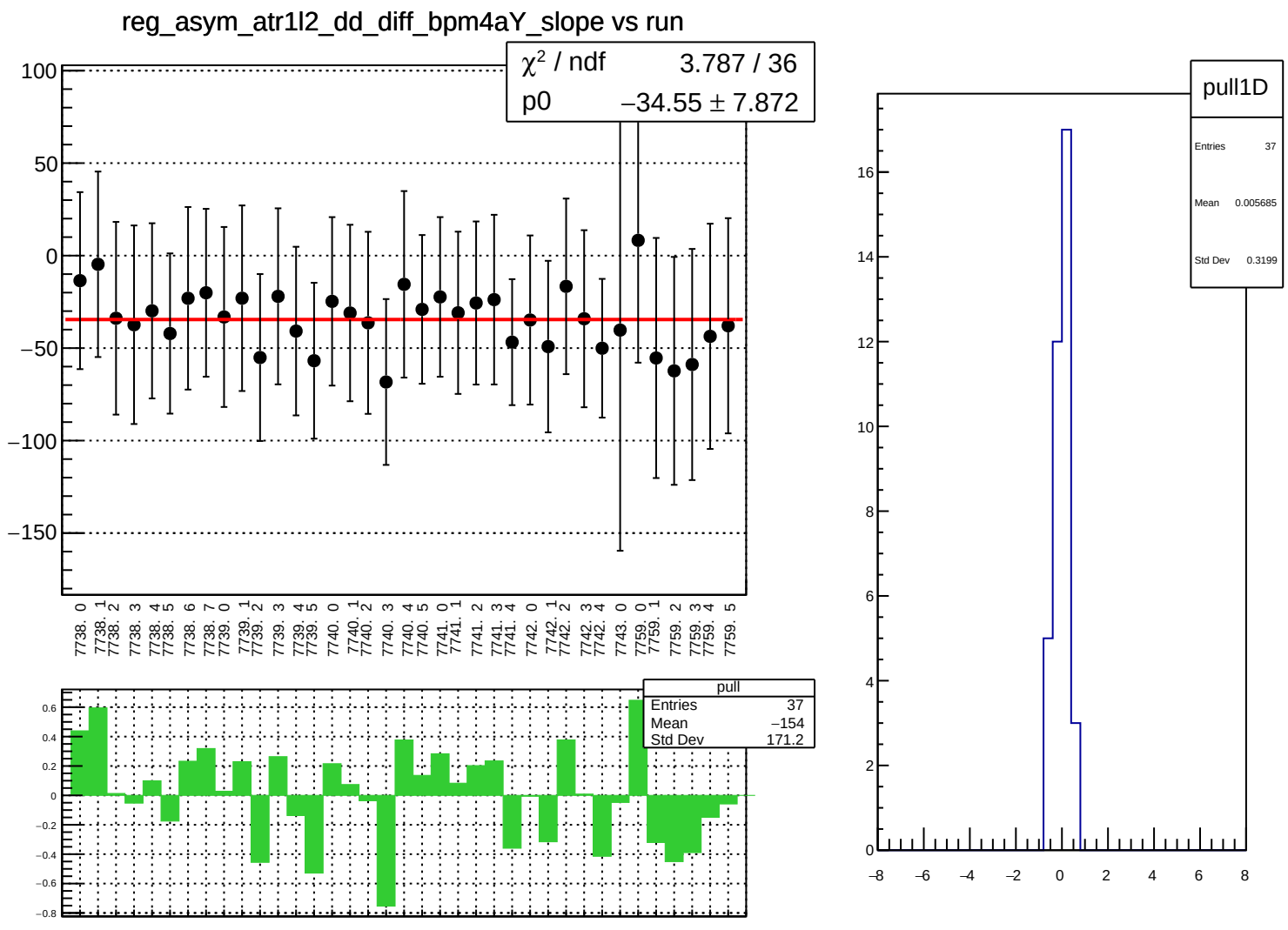

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.073 / 36
p0 42.52 ± 9.735
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.92
Std Dev 9.985
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean 0.0121
Std Dev 0.2879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

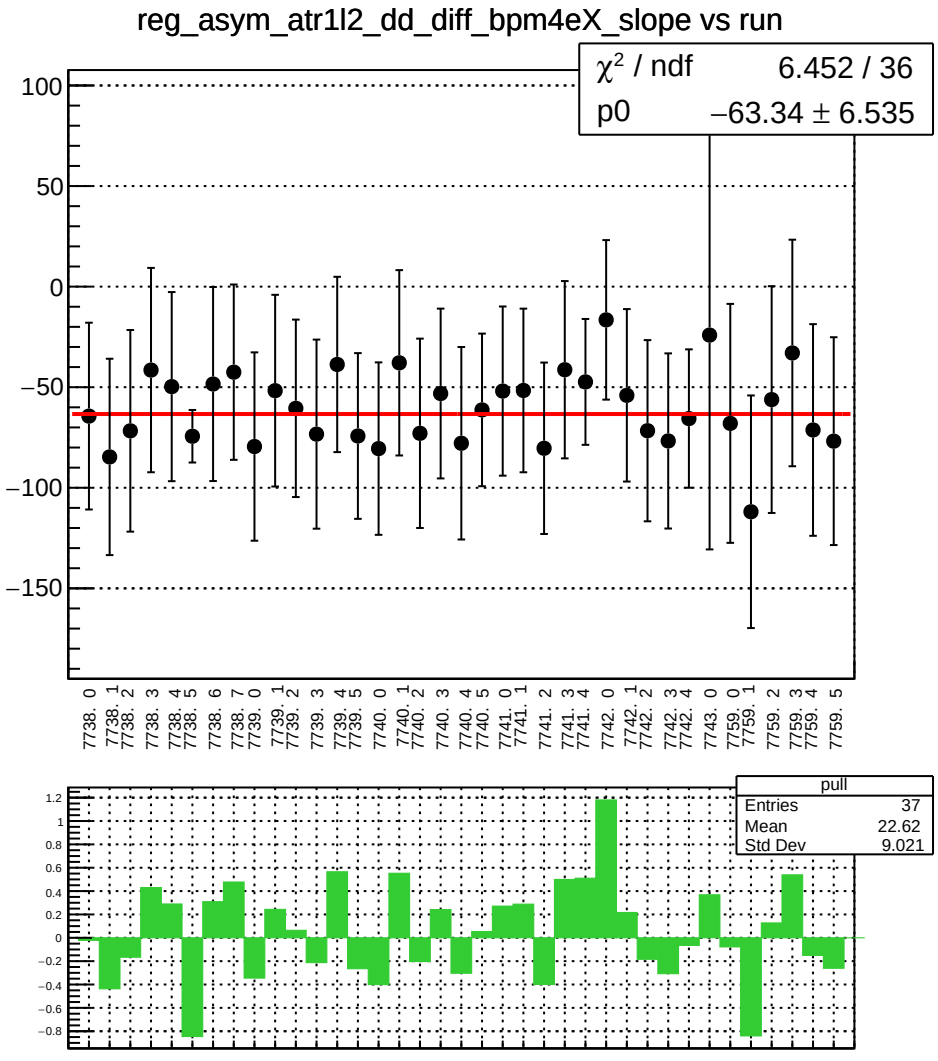

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.557 / 36
p0 51.03 ± 8.147
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −28.07
Std Dev 49.36
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean −0.05045
Std Dev 0.4782
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

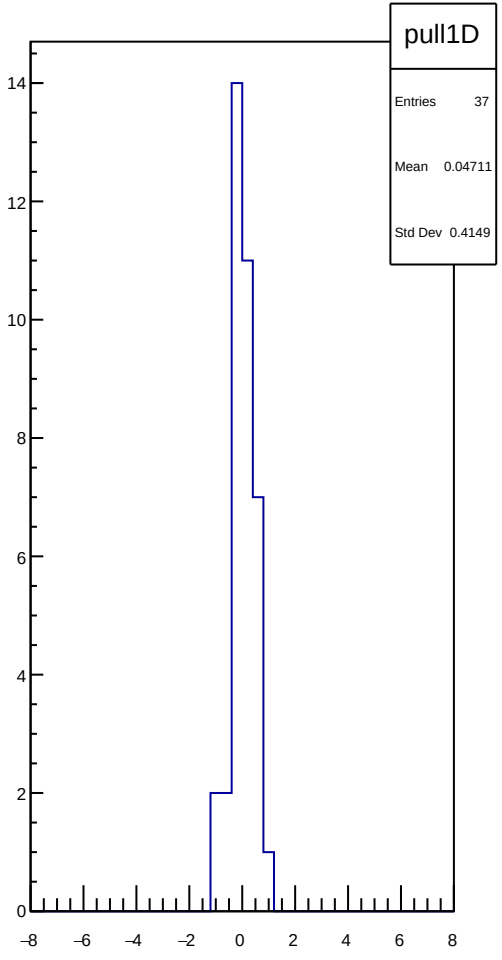

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.379 / 36
p0 −9.63 ± 16.64
pull
Entries 37
Mean −13.87
Std Dev 36.21
pull1D
Entries 37
Mean −0.02325
Std Dev 0.3013

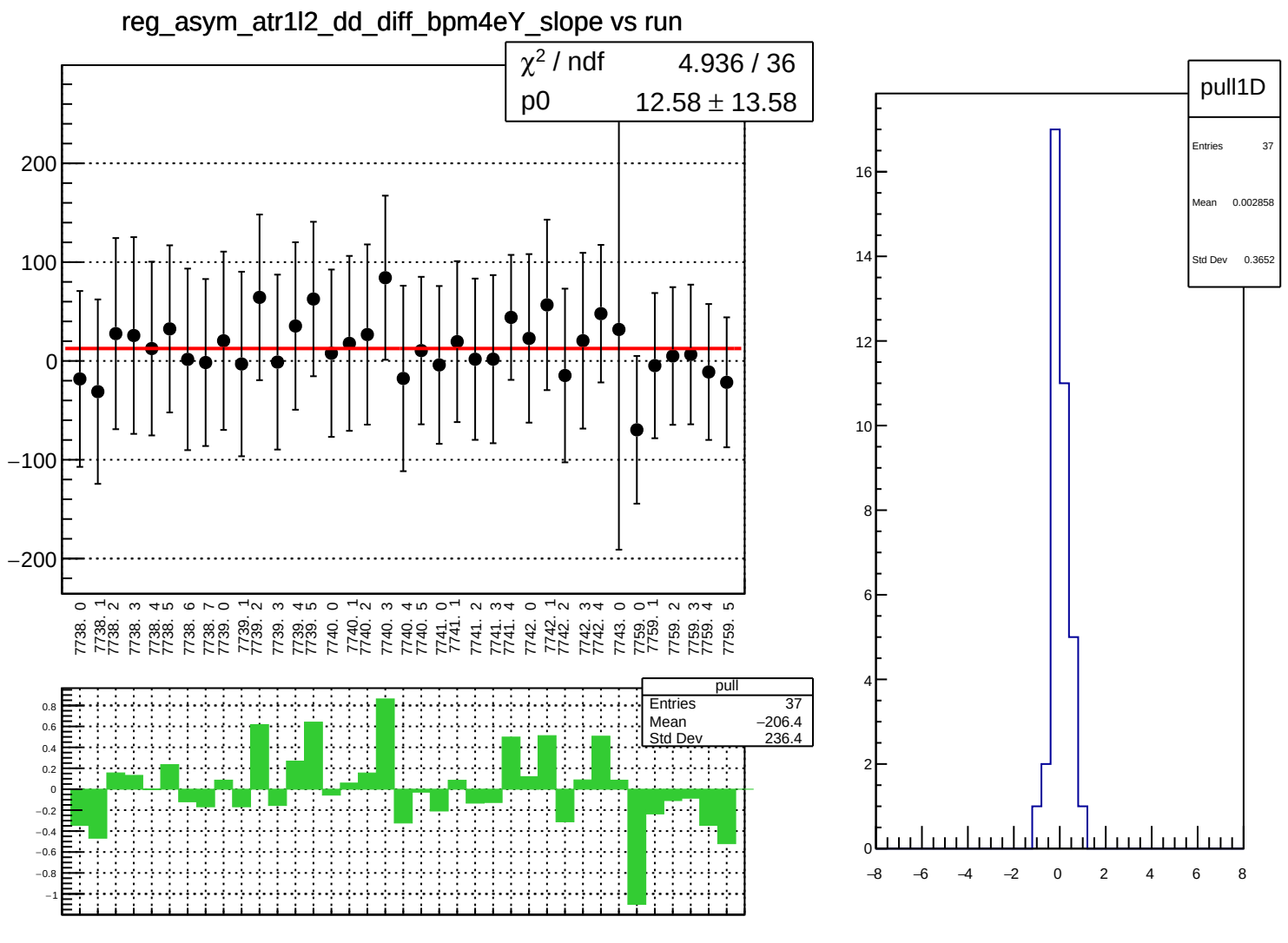

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 263 / 36
p0 −147.9 ± 0.5299
−130
−135
−140
−145
−150
−155
−160
−165
−170
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 2.133
Std Dev 8.38
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 37
Mean −0.2475
Std Dev 2.655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

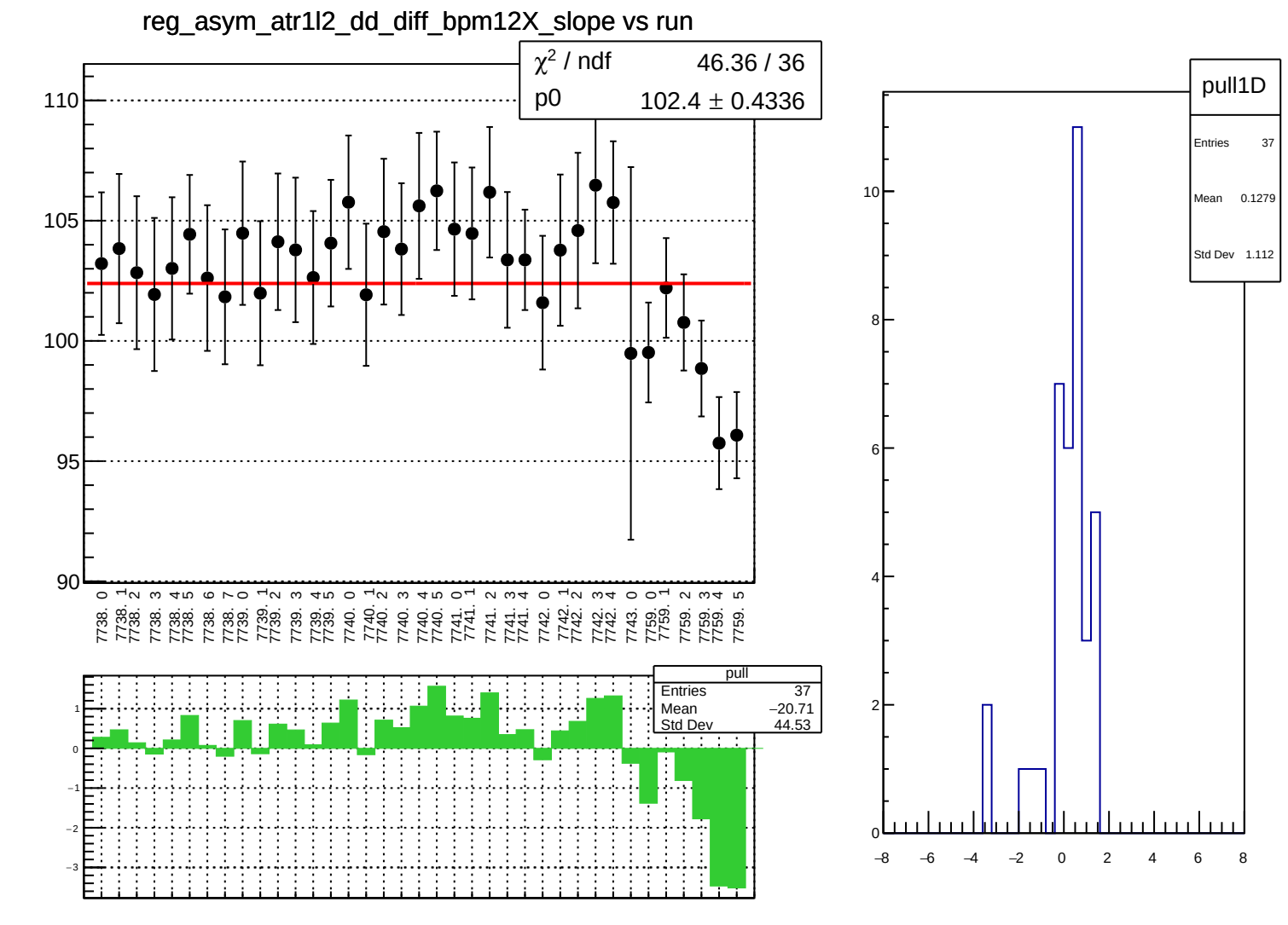

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 6.361 / 36
p0 72.99 ± 6.655
200
150
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 23.78
Std Dev 9.267
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 37
Mean −0.03909
Std Dev 0.4128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

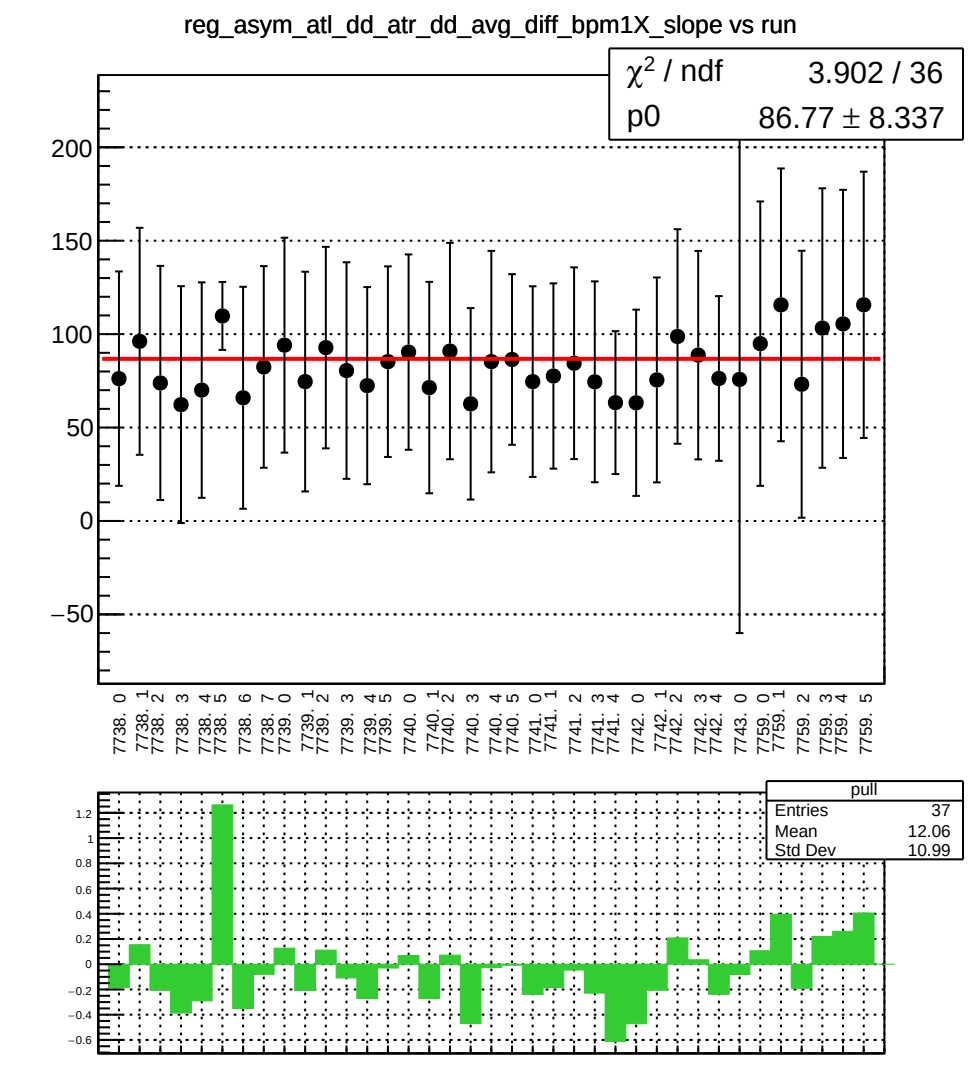

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.787 / 36
p0 −34.55 ± 7.872
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −154
Std Dev 171.2
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 37
Mean 0.005685
Std Dev 0.3199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

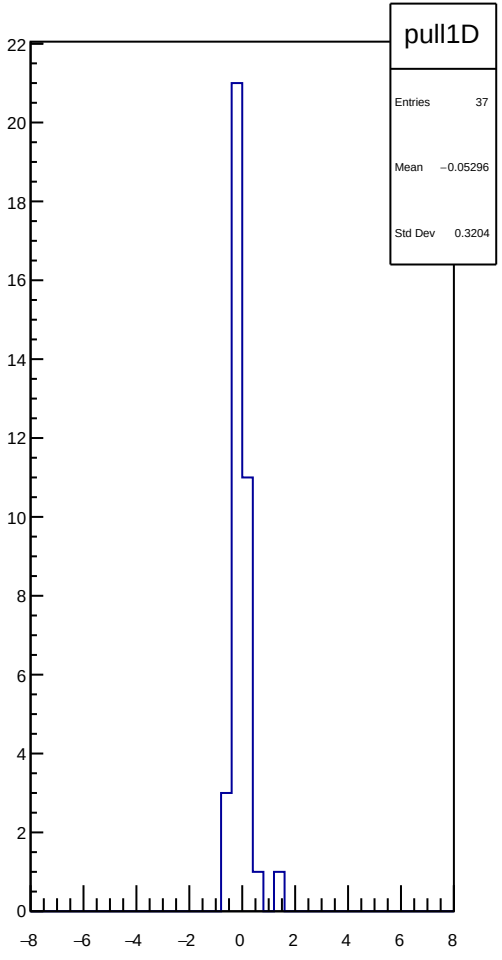

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.452 / 36
p0 −63.34 ± 6.535
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 22.62
Std Dev 9.021
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

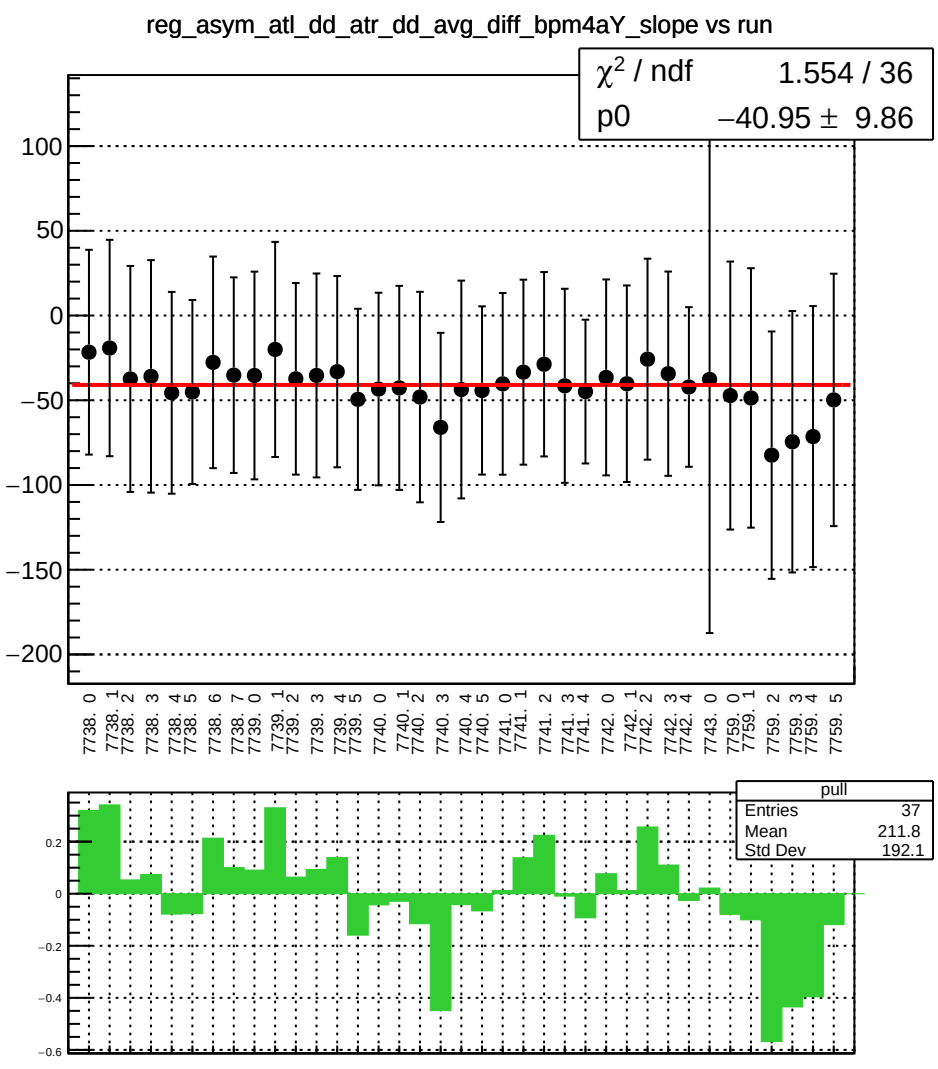

pull1D
Entries 37
Mean 0.04711
Std Dev 0.4149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

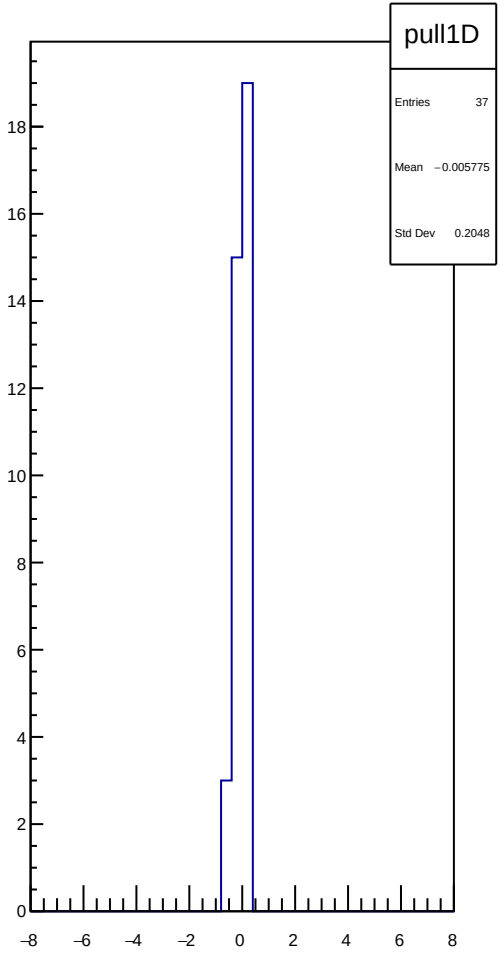

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.936 / 36
p0 12.58 ± 13.58
200
100
0
−100
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −206.4
Std Dev 236.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 37
Mean 0.002858
Std Dev 0.3652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

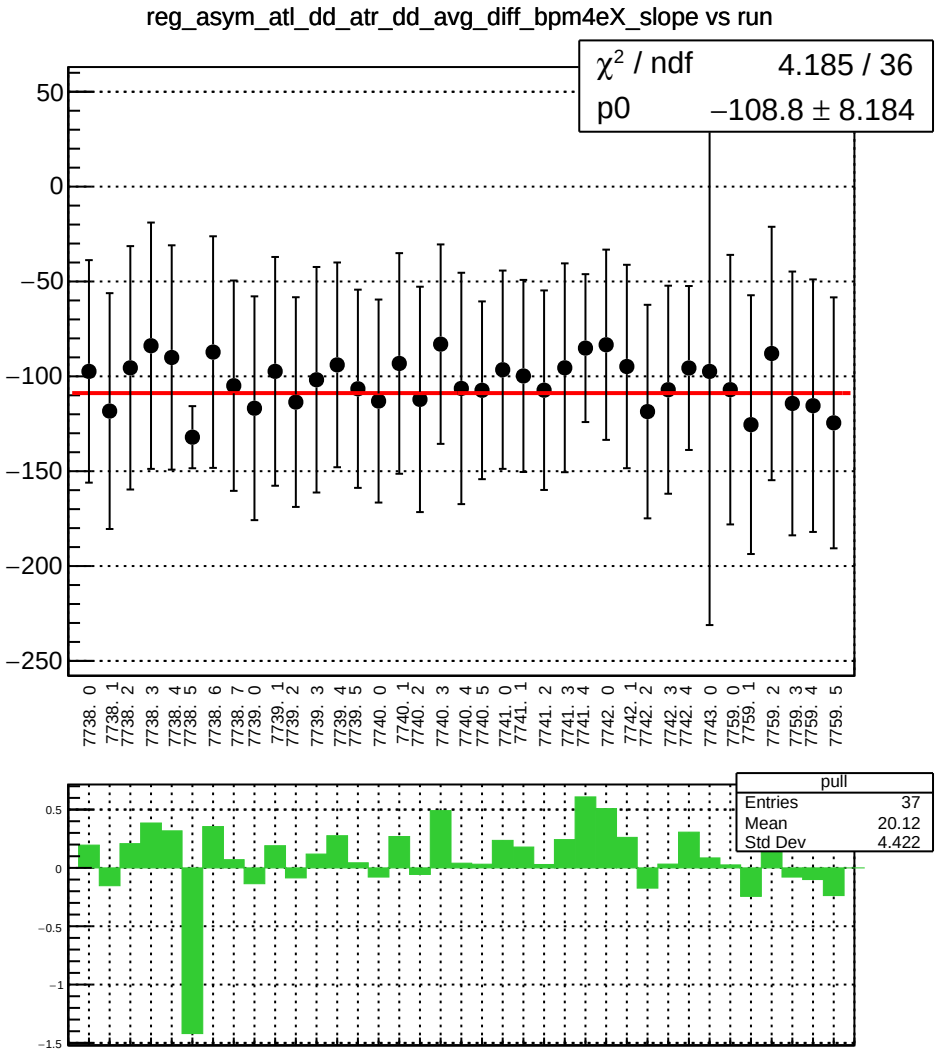

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 46.36 / 36
p0 102.4 ± 0.4336
110
105
100
95
90
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −20.71
Std Dev 44.53
1
0
−1
−2
−3
pull1D
Entries 37
Mean 0.1279
Std Dev 1.112
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

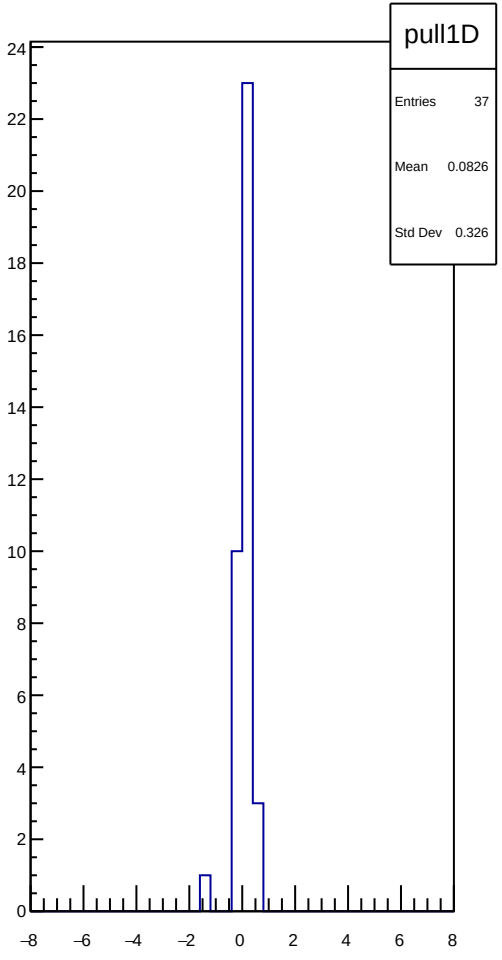

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 3.902 / 36
p0 86.77 ± 8.337
200
150
100
50
0
−50
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 12.06
Std Dev 10.99
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

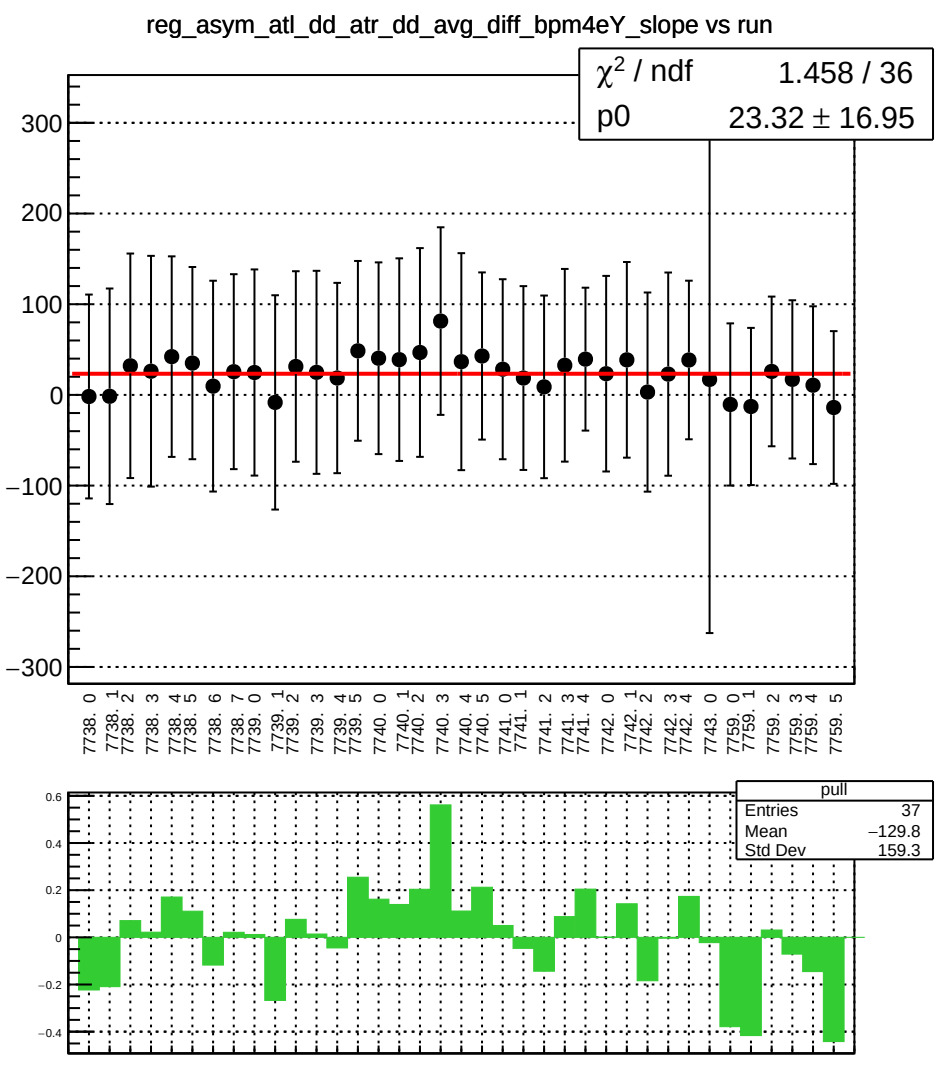

pull1D
Entries 37
Mean −0.05296
Std Dev 0.3204
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

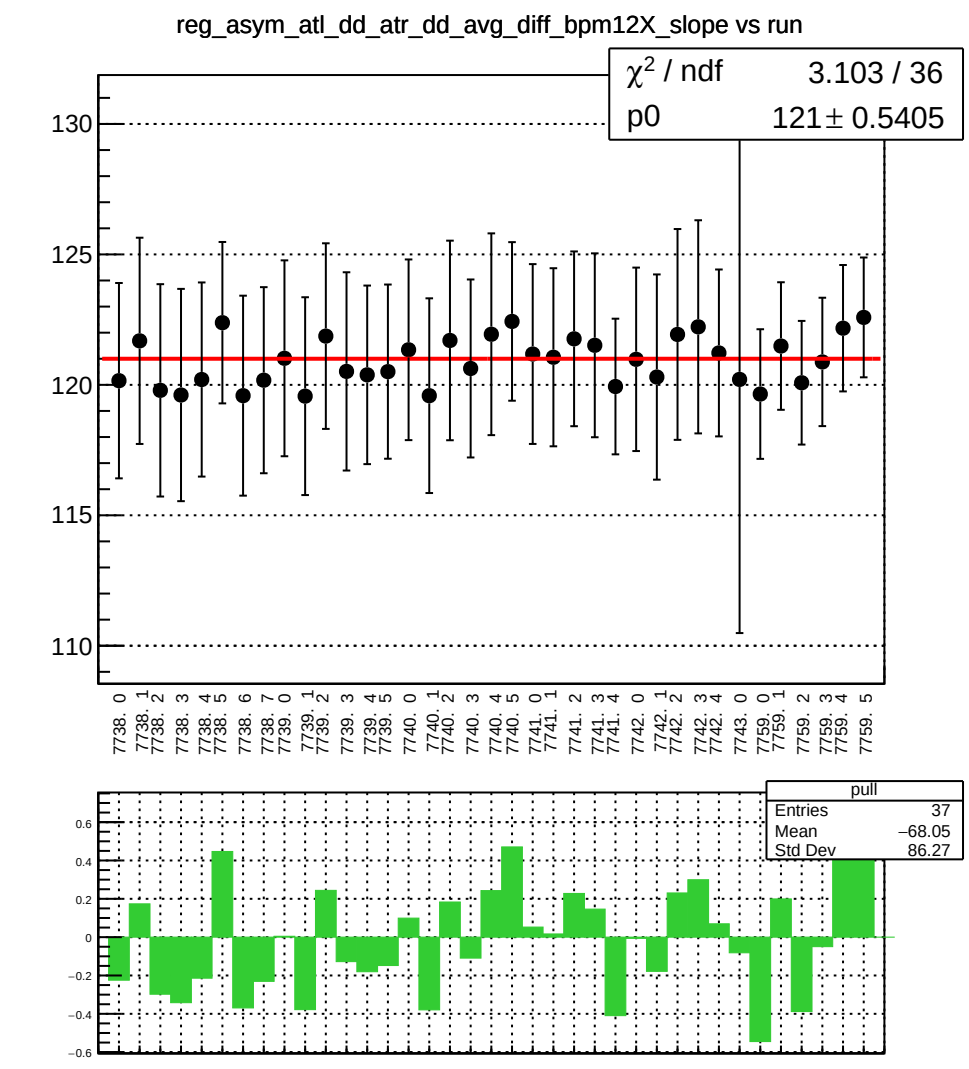

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.554 / 36
p0 −40.95 ± 9.86
100
50
0
−50
−100
−150
−200
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 211.8
Std Dev 192.1
0.2
0
−0.2
−0.4
−0.6

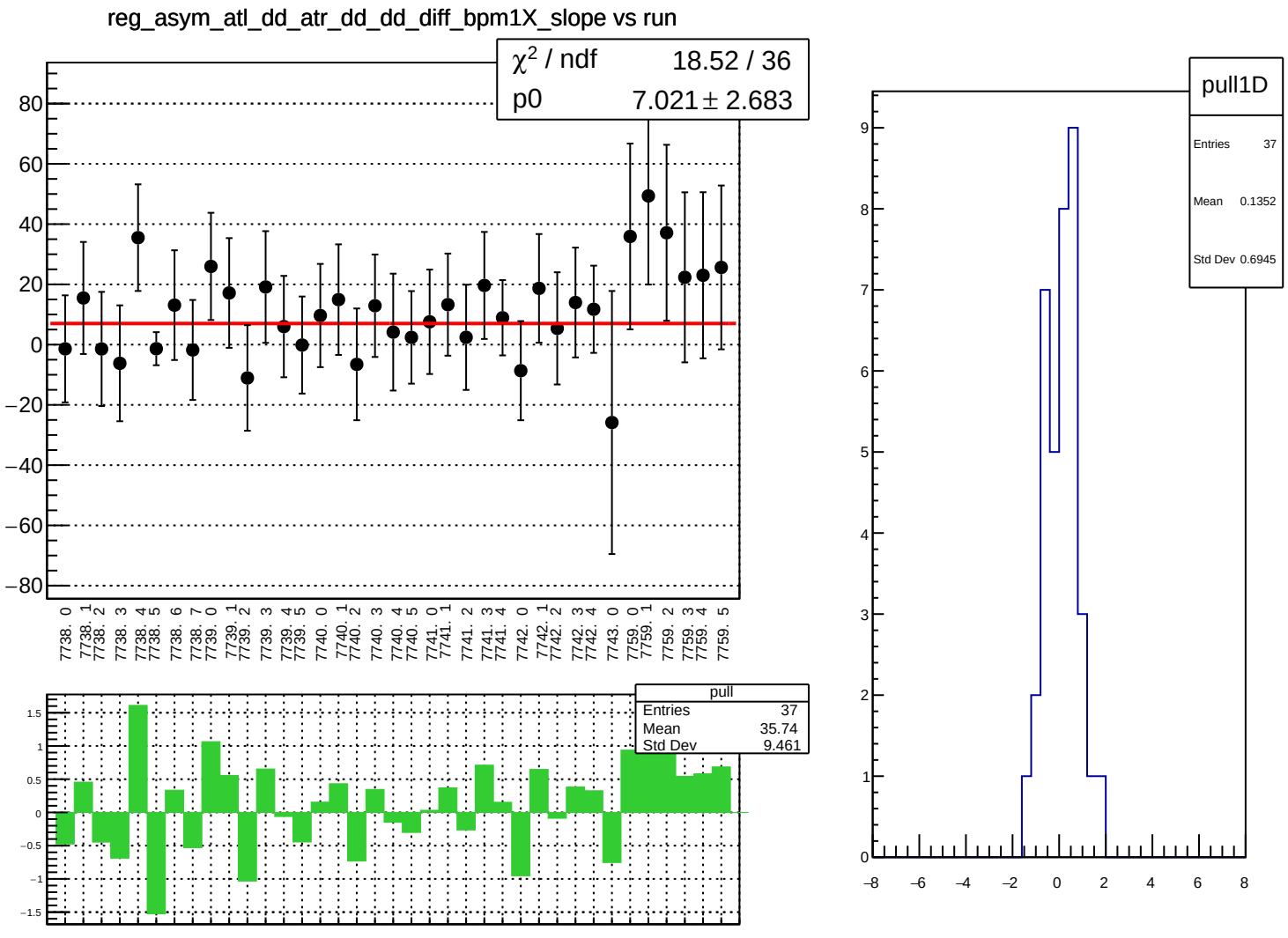

pull1D
Entries 37
Mean −0.005775
Std Dev 0.2048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

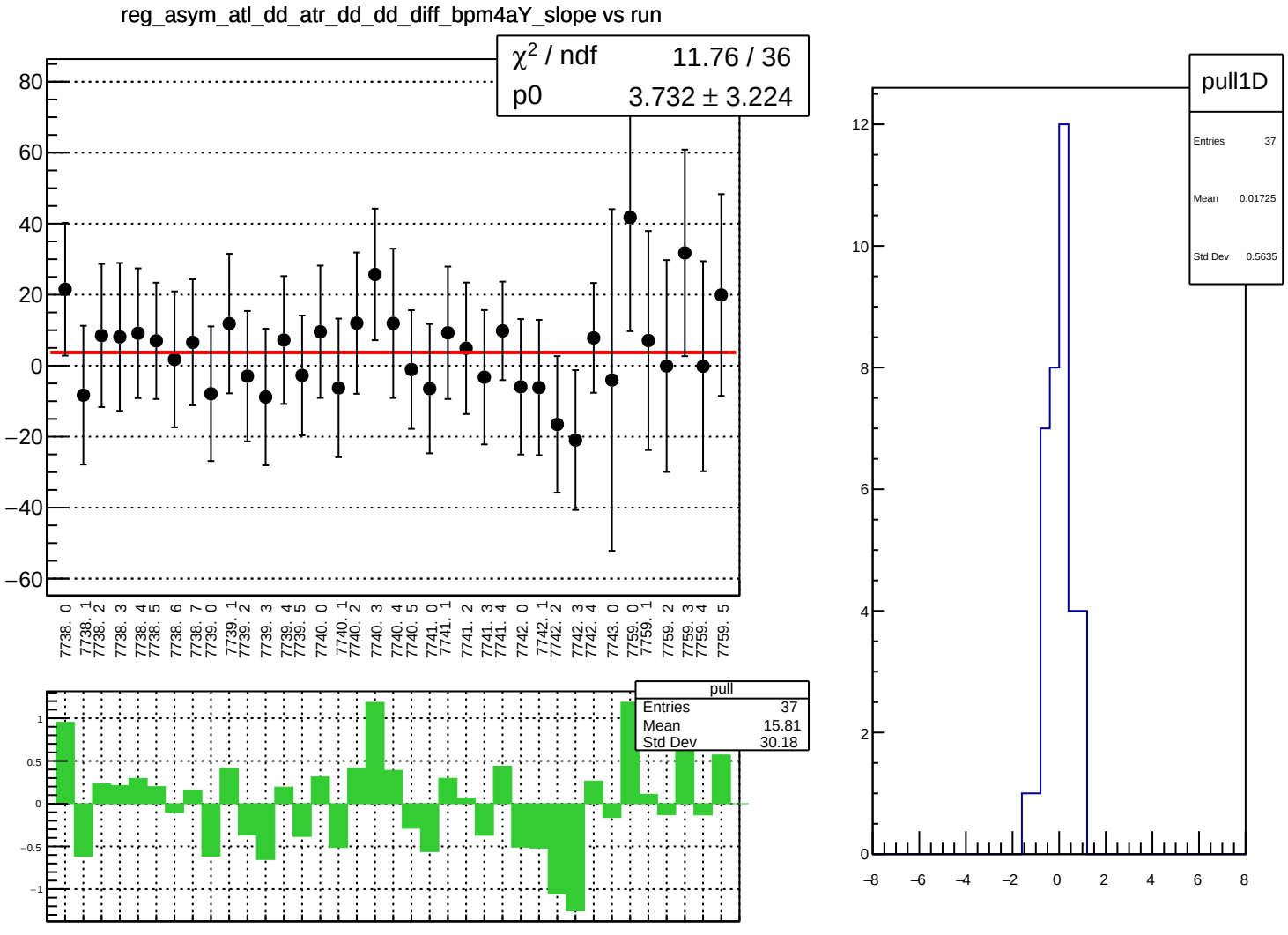

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.185 / 36
p0 −108.8 ± 8.184
pull
Entries 37
Mean 20.12
Std Dev 4.422

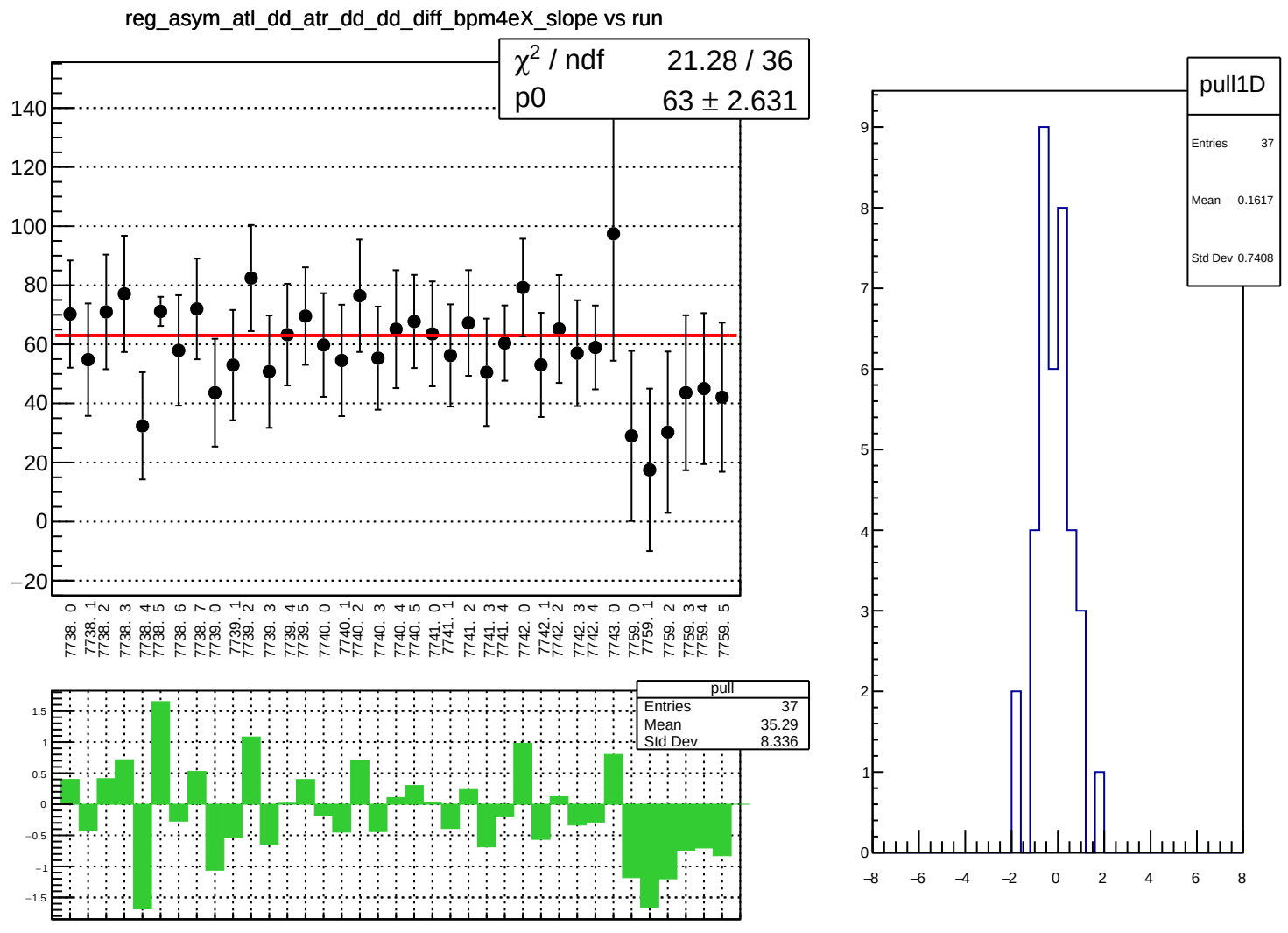

pull1D
Entries 37
Mean 0.0826
Std Dev 0.326

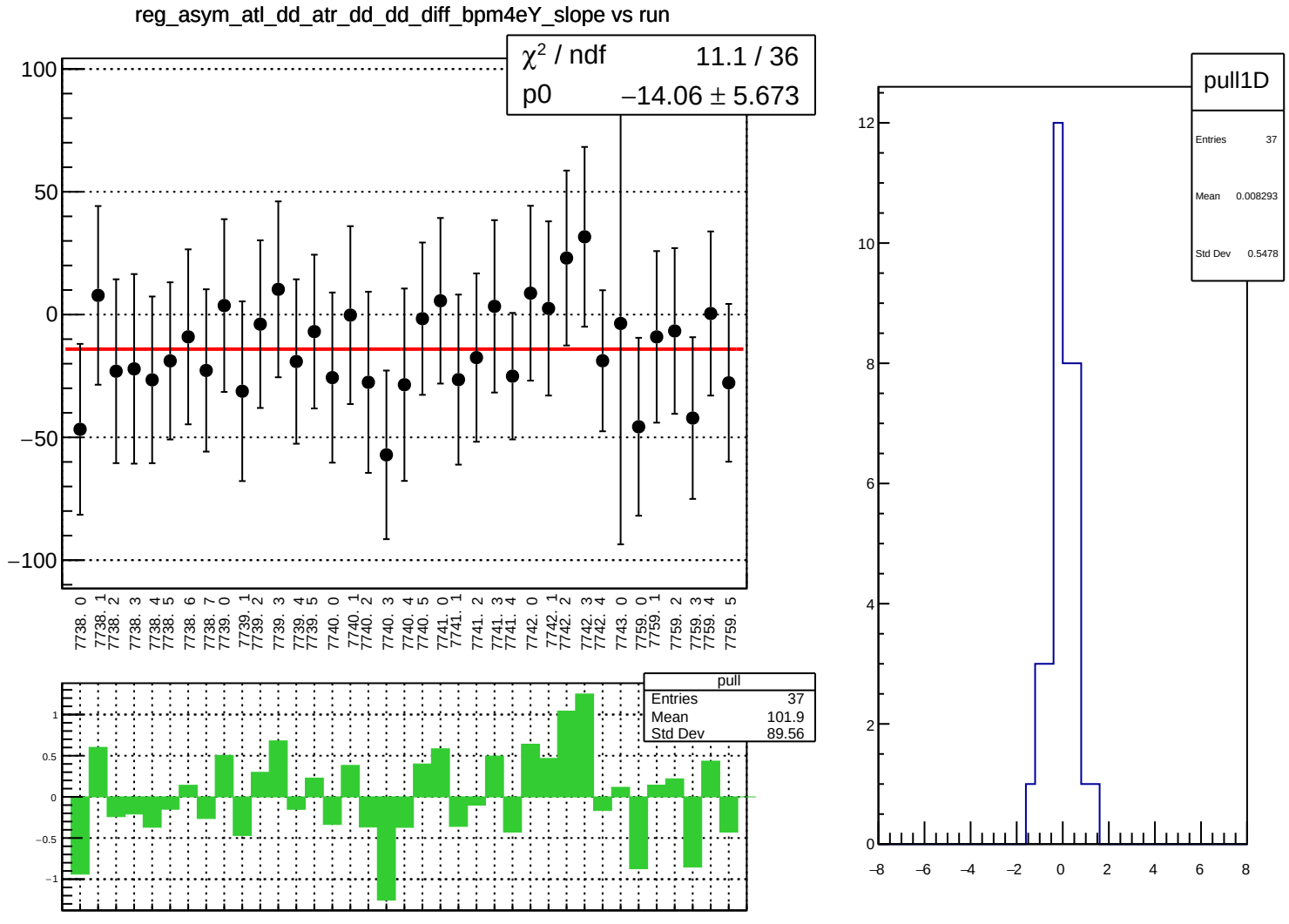

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.458 / 36
p0 23.32 ± 16.95
300
200
100
0
−100
−200
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −129.8
Std Dev 159.3
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 37
Mean 0.003189
Std Dev 0.1985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

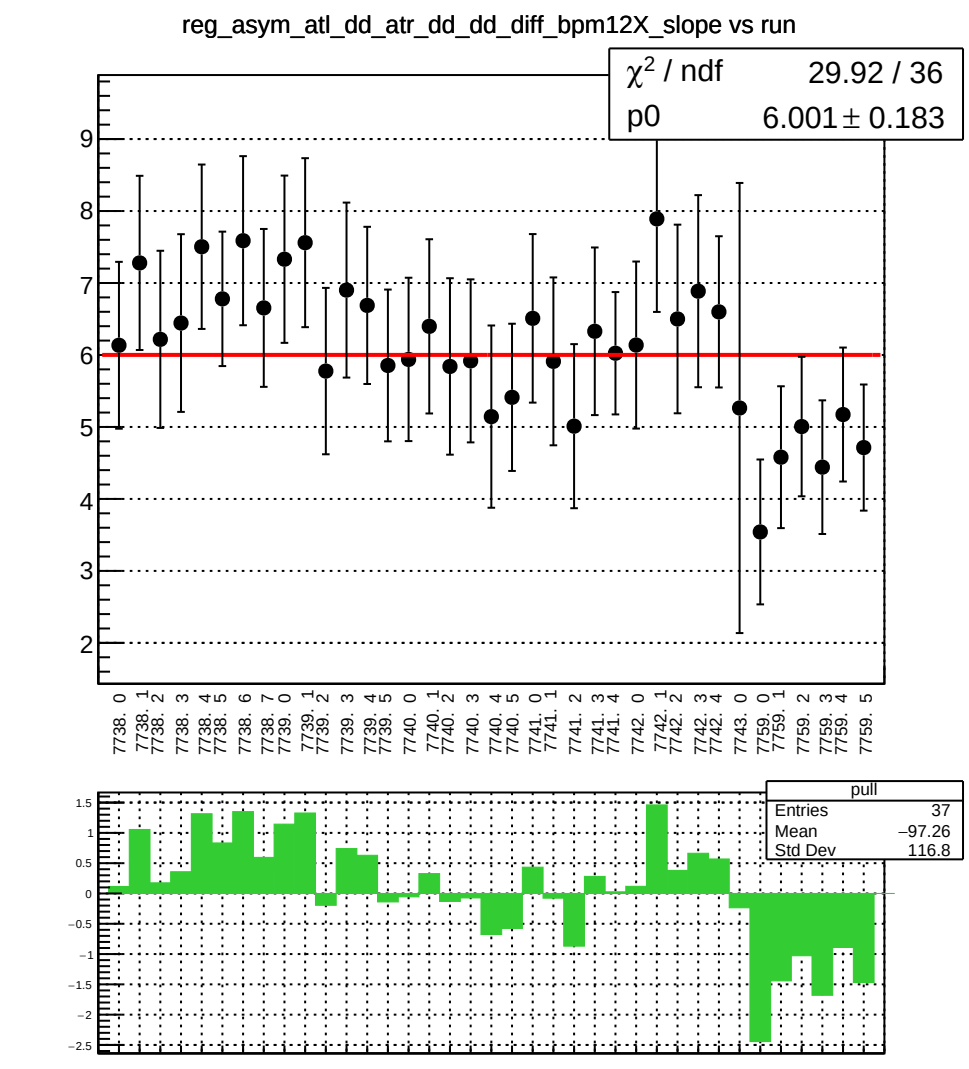

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 3.103 / 36
p0 121 ± 0.5405
130
125
120
115
110
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −68.05
Std Dev 86.27
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 37
Mean −0.0102
Std Dev 0.2894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

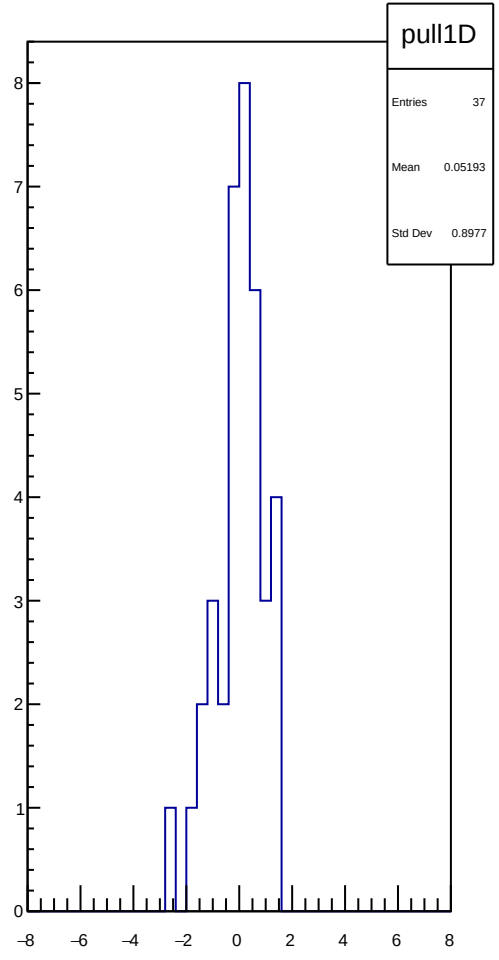

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 18.52 / 36
p0 7.021 ± 2.683
80
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 35.74
Std Dev 9.461
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean 0.1352
Std Dev 0.6945
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

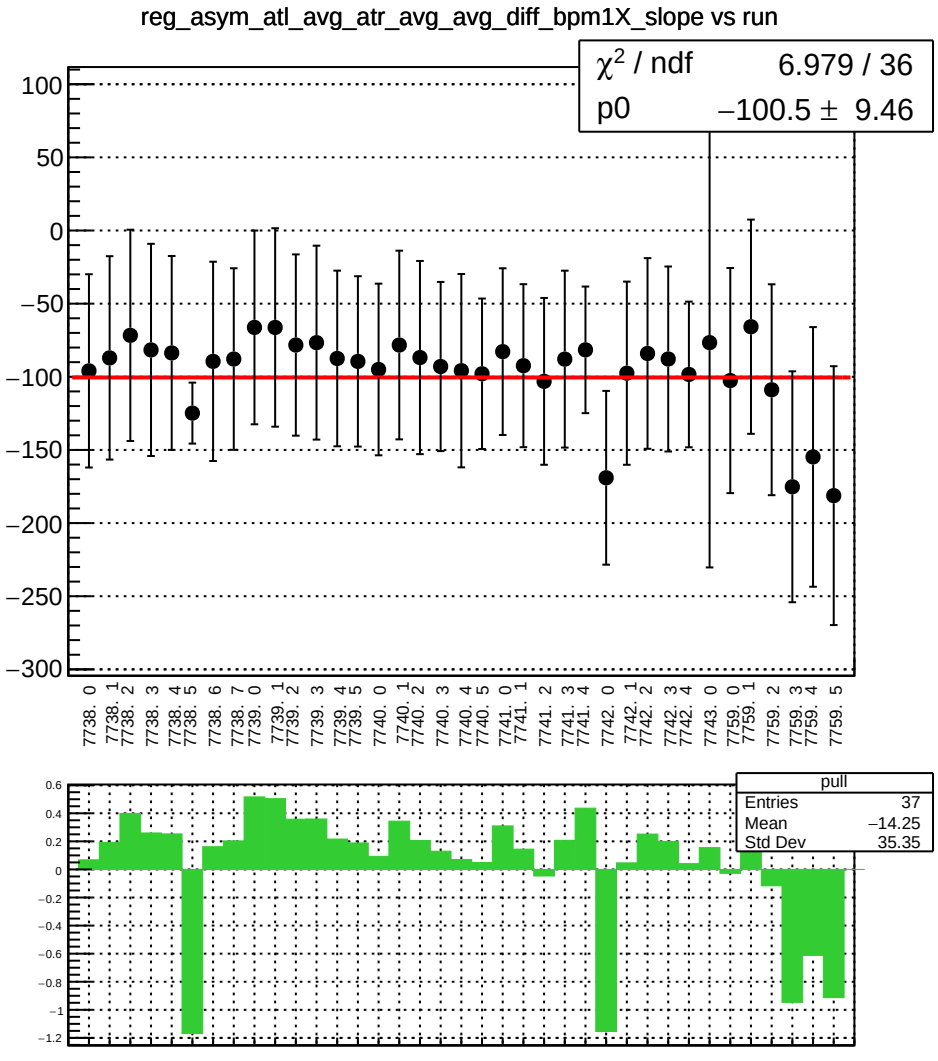

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.76 / 36
p0 3.732 ± 3.224
pull
Entries 37
Mean 15.81
Std Dev 30.18
pull1D
Entries 37
Mean 0.01725
Std Dev 0.5635

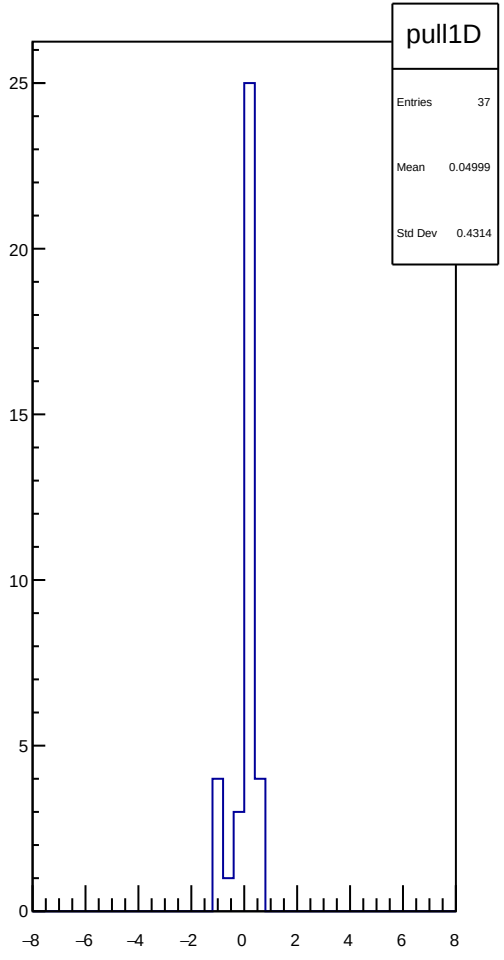

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.28 / 36
p0 63 ± 2.631
pull
Entries 37
Mean 35.29
Std Dev 8.336
pull1D
Entries 37
Mean −0.1617
Std Dev 0.7408

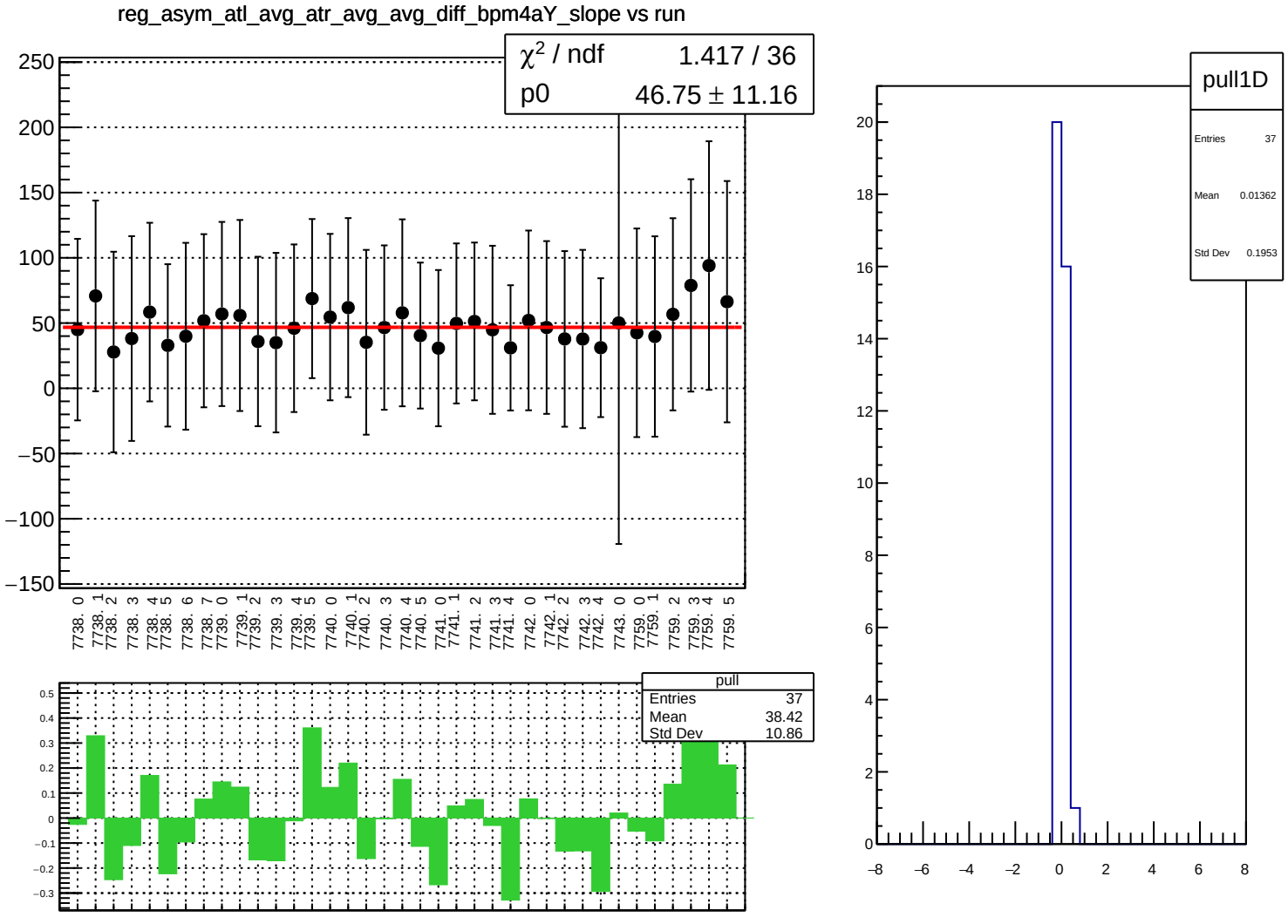

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.1 / 36
p0 −14.06 ± 5.673
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 101.9
Std Dev 89.56
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.008293
Std Dev 0.5478
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

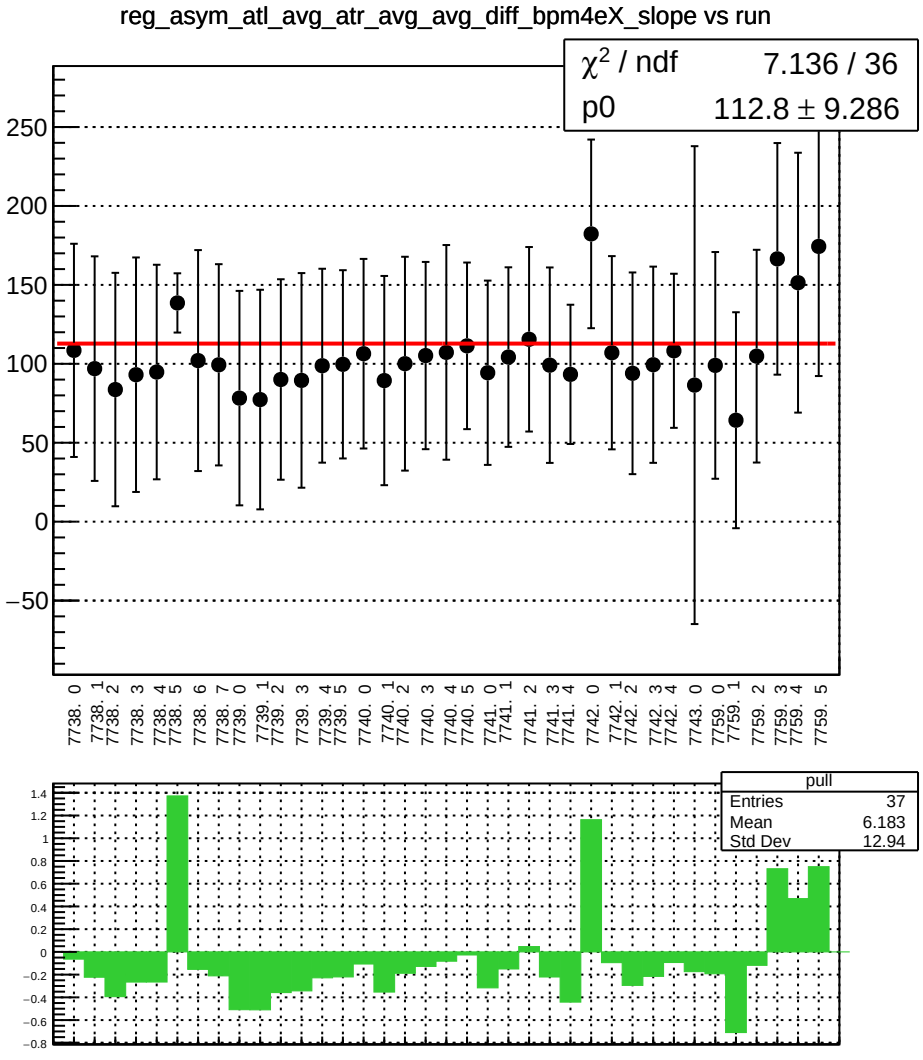

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 29.92 / 36
p0 6.001 ± 0.183
pull
Entries 37
Mean −97.26
Std Dev 116.8

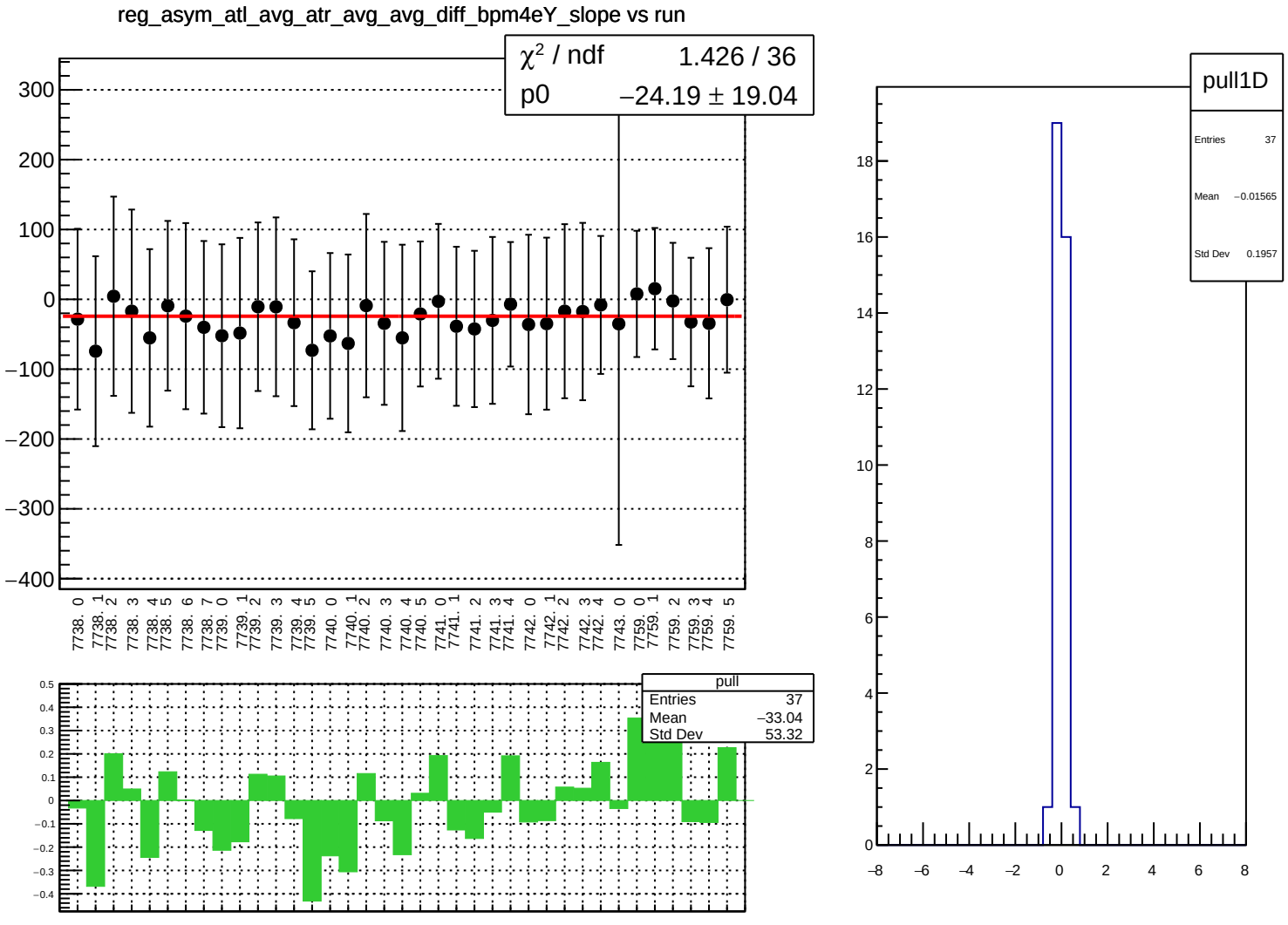

pull1D
Entries 37
Mean 0.05193
Std Dev 0.8977

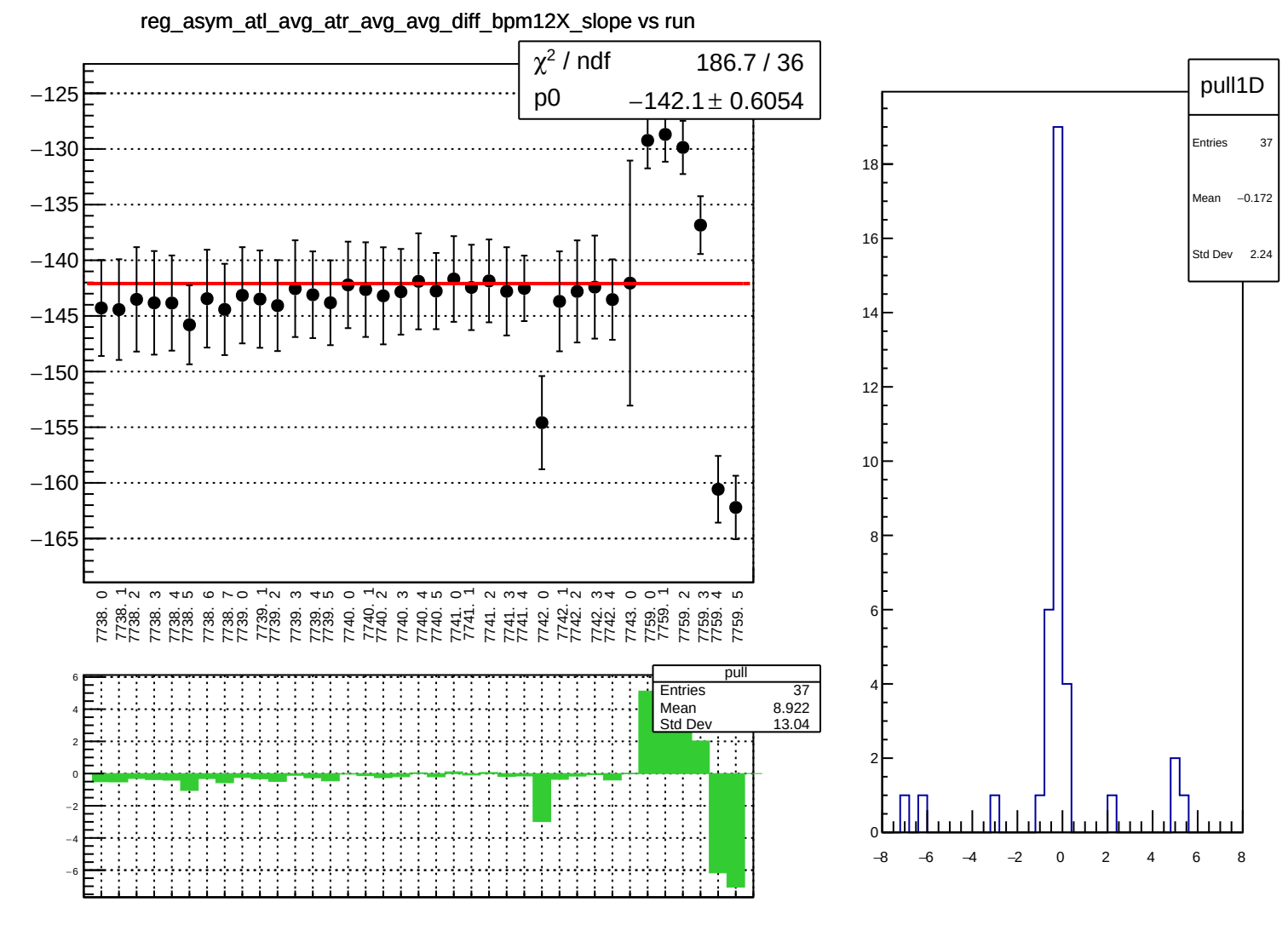

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 6.979 / 36
p0 −100.5 ± 9.46
100
50
0
−50
−100
−150
−200
−250
−300
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −14.25
Std Dev 35.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

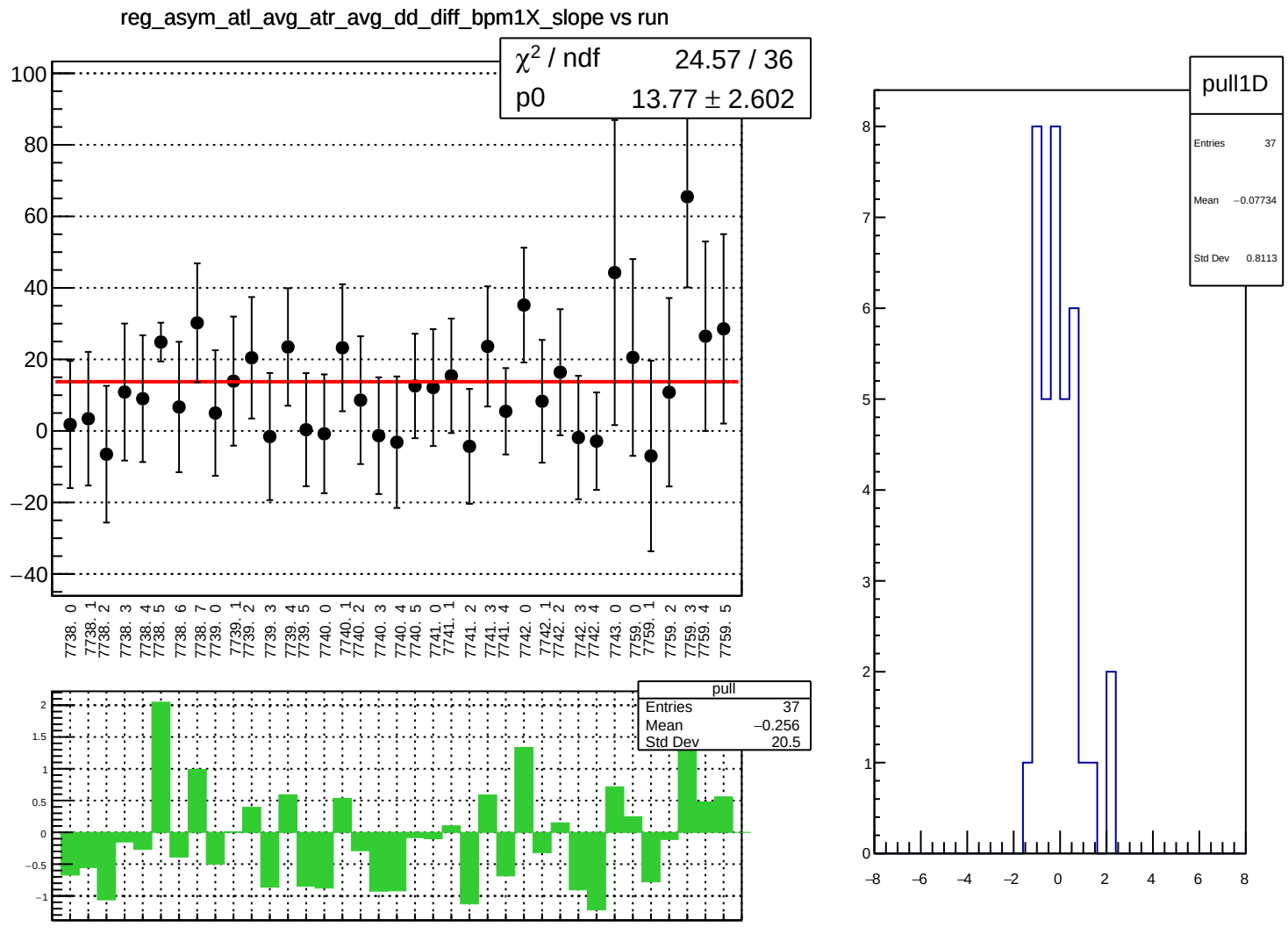

pull1D
Entries 37
Mean 0.04999
Std Dev 0.4314
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

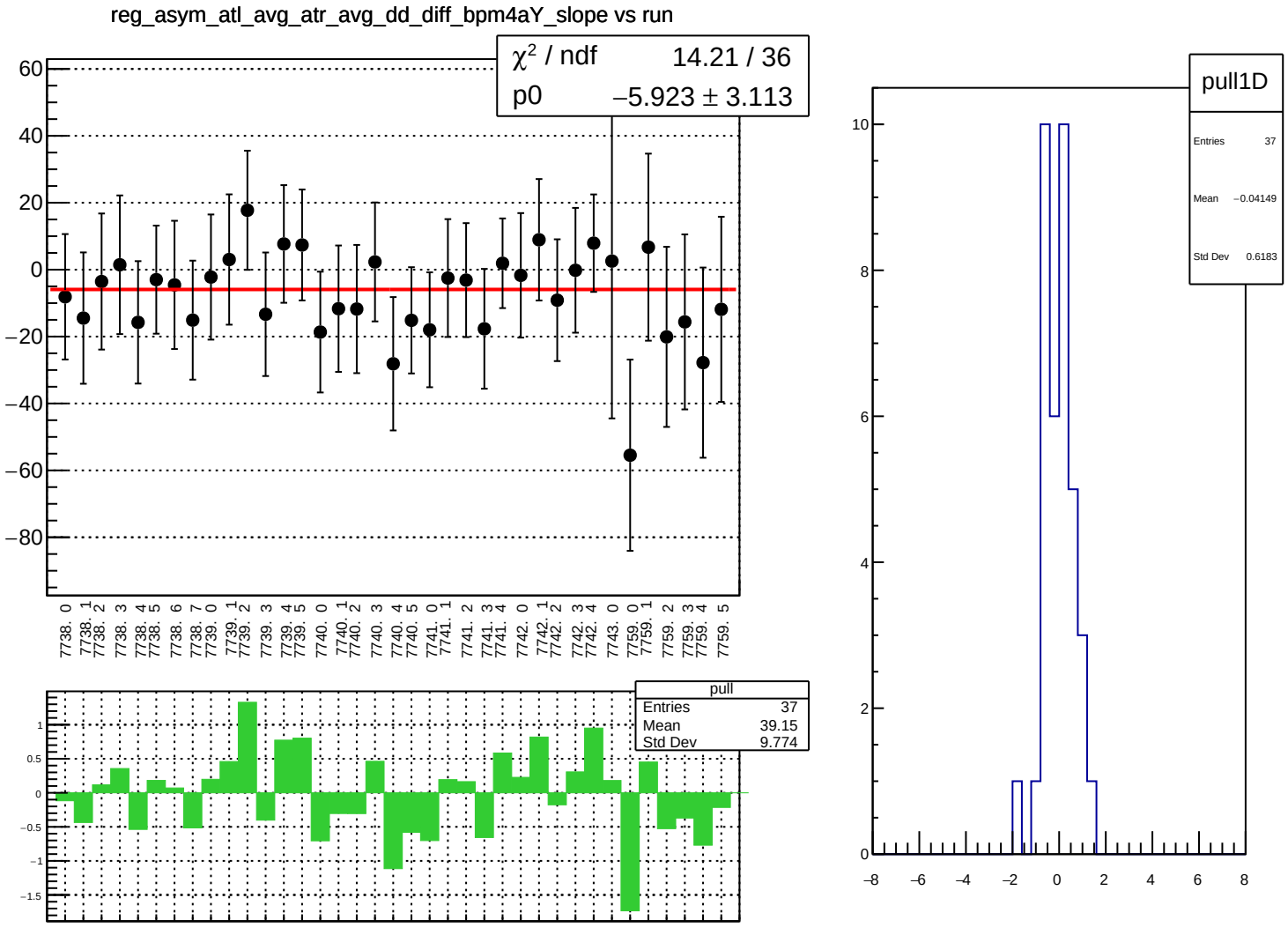

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.417 / 36
p0 46.75 ± 11.16
250
200
150
100
50
0
−50
−100
−150
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 38.42
Std Dev 10.86
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 37
Mean 0.01362
Std Dev 0.1953
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

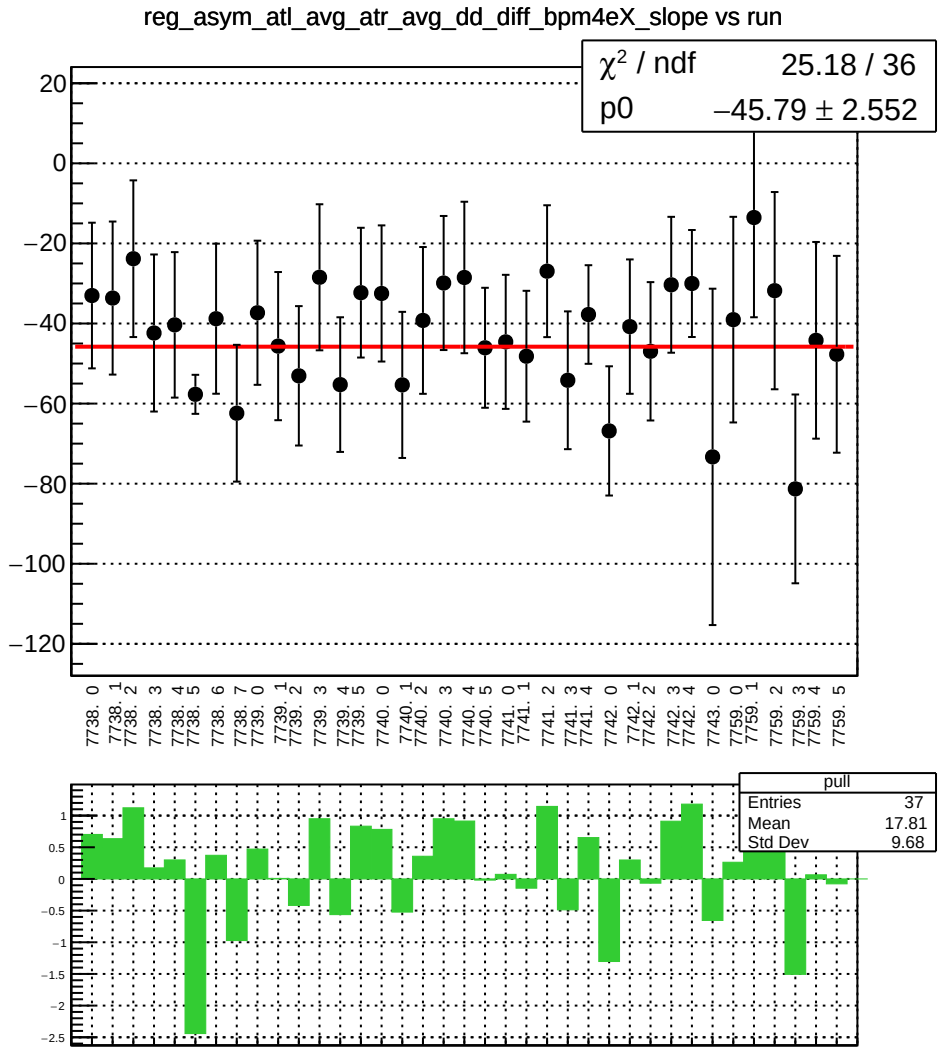

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.136 / 36
p0 112.8 ± 9.286
pull
Entries 37
Mean 6.183
Std Dev 12.94
pull1D
Entries 37
Mean −0.08425
Std Dev 0.431

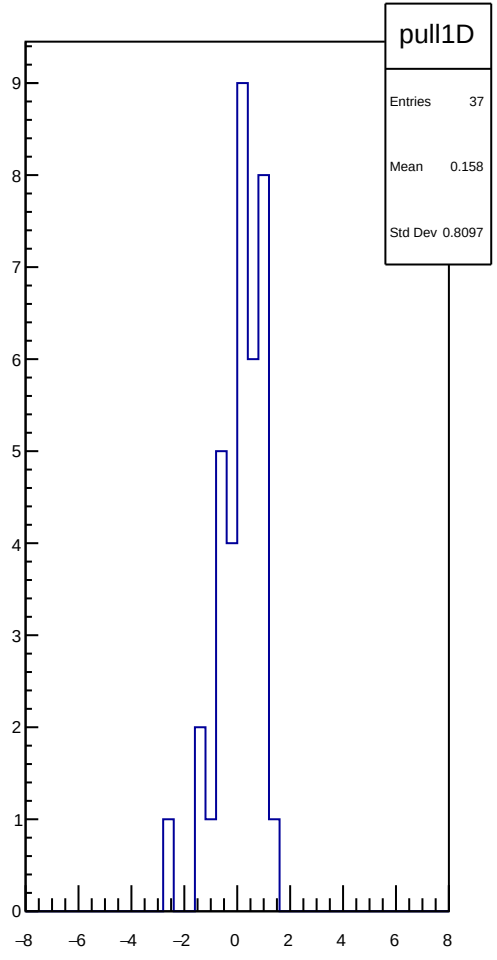

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.426 / 36
p0 −24.19 ± 19.04
300
200
100
0
−100
−200
−300
−400
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −33.04
Std Dev 53.32
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 37
Mean −0.01565
Std Dev 0.1957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

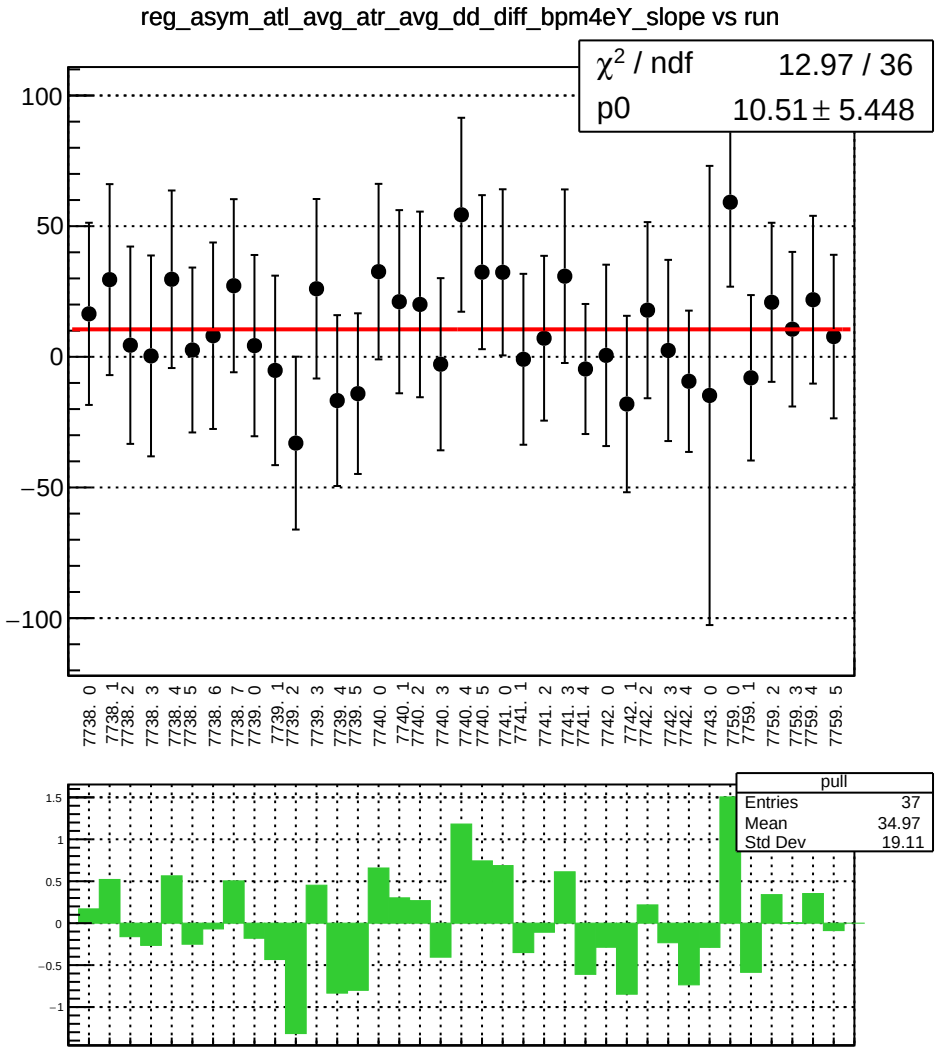

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 186.7 / 36
p0 −142.1 ± 0.6054
−125
−130
−135
−140
−145
−150
−155
−160
−165
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 8.922
Std Dev 13.04
6
4
2
0
−2
−4
−6
pull1D
Entries 37
Mean −0.172
Std Dev 2.24
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

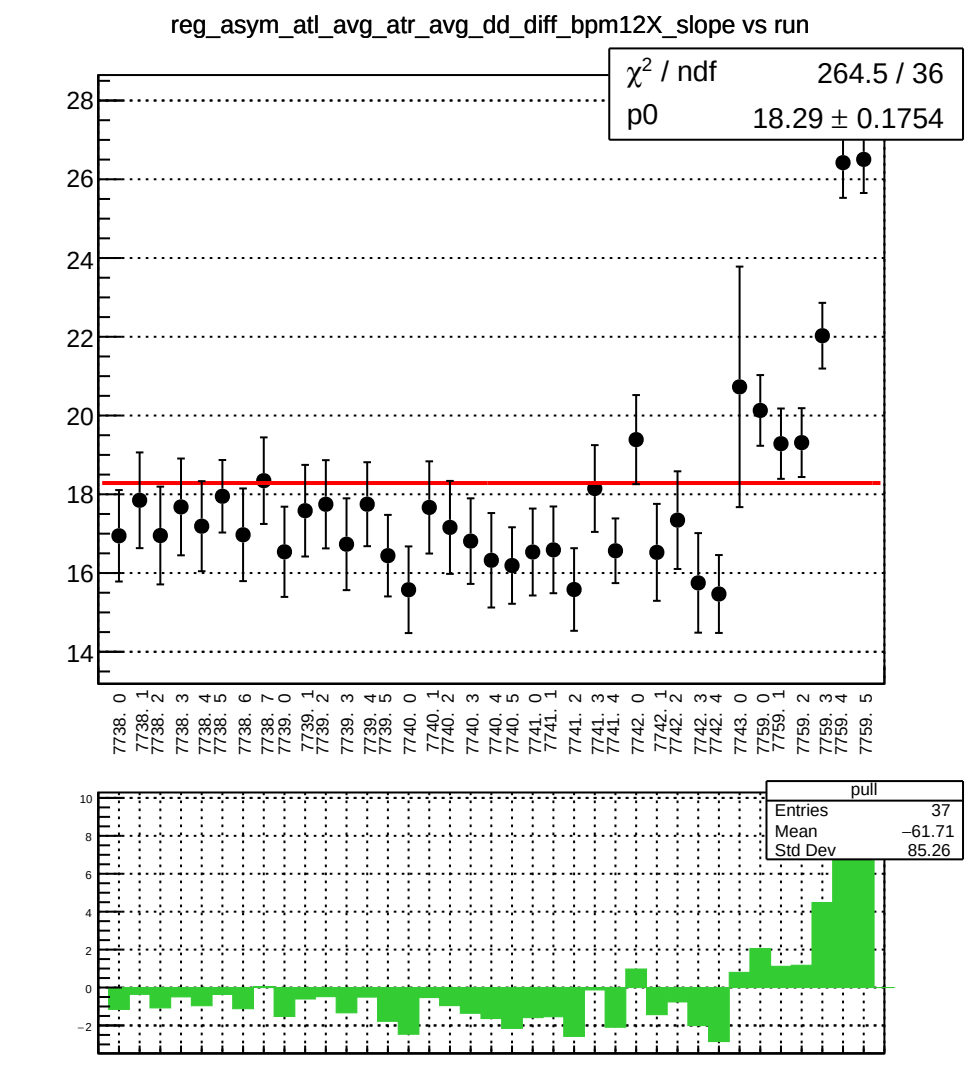

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 24.57 / 36
p0 13.77 ± 2.602
pull
Entries 37
Mean −0.256
Std Dev 20.5
pull1D
Entries 37
Mean −0.07734
Std Dev 0.8113

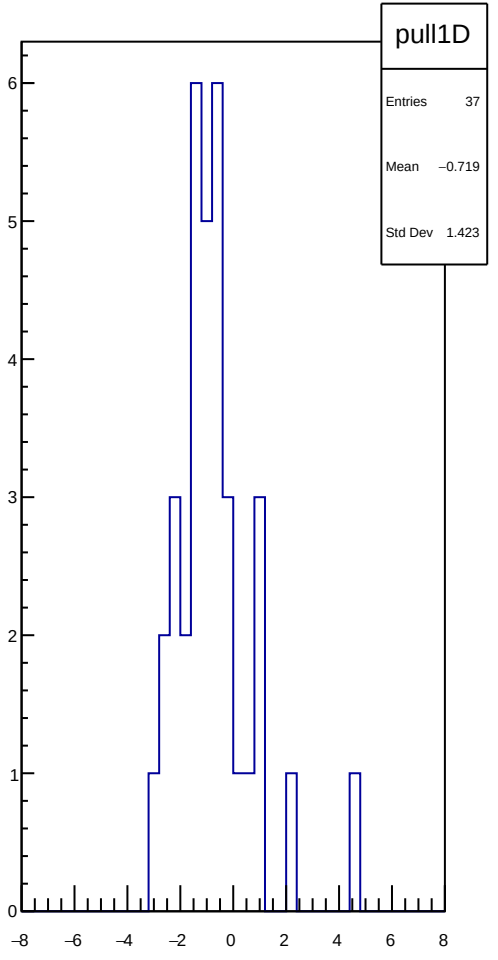

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.21 / 36
p0 −5.923 ± 3.113
60
40
20
0
−20
−40
−60
−80
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 39.15
Std Dev 9.774
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 37
Mean −0.04149
Std Dev 0.6183
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

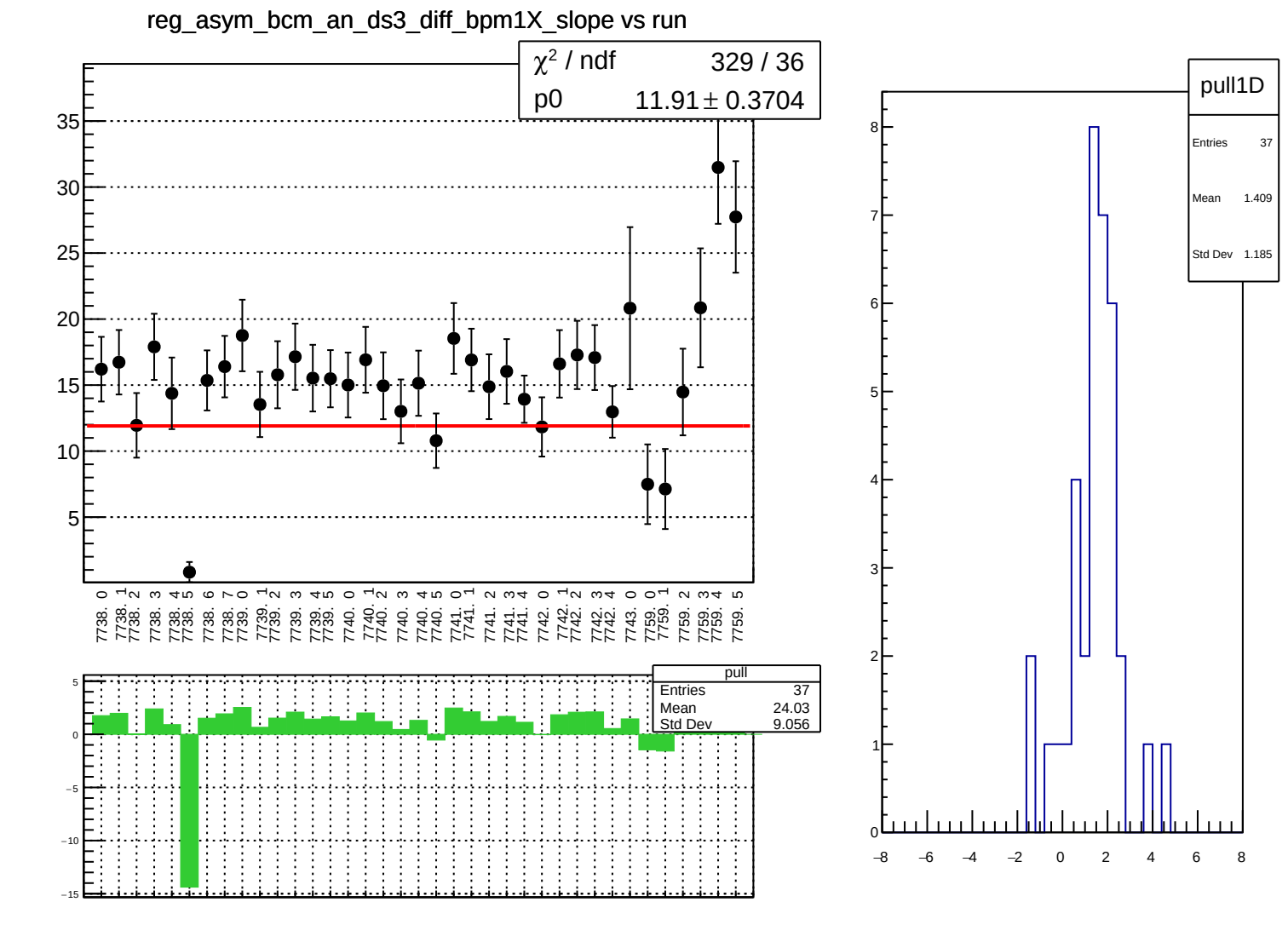

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.18 / 36
p0 −45.79 ± 2.552
pull
Entries 37
Mean 17.81
Std Dev 9.68

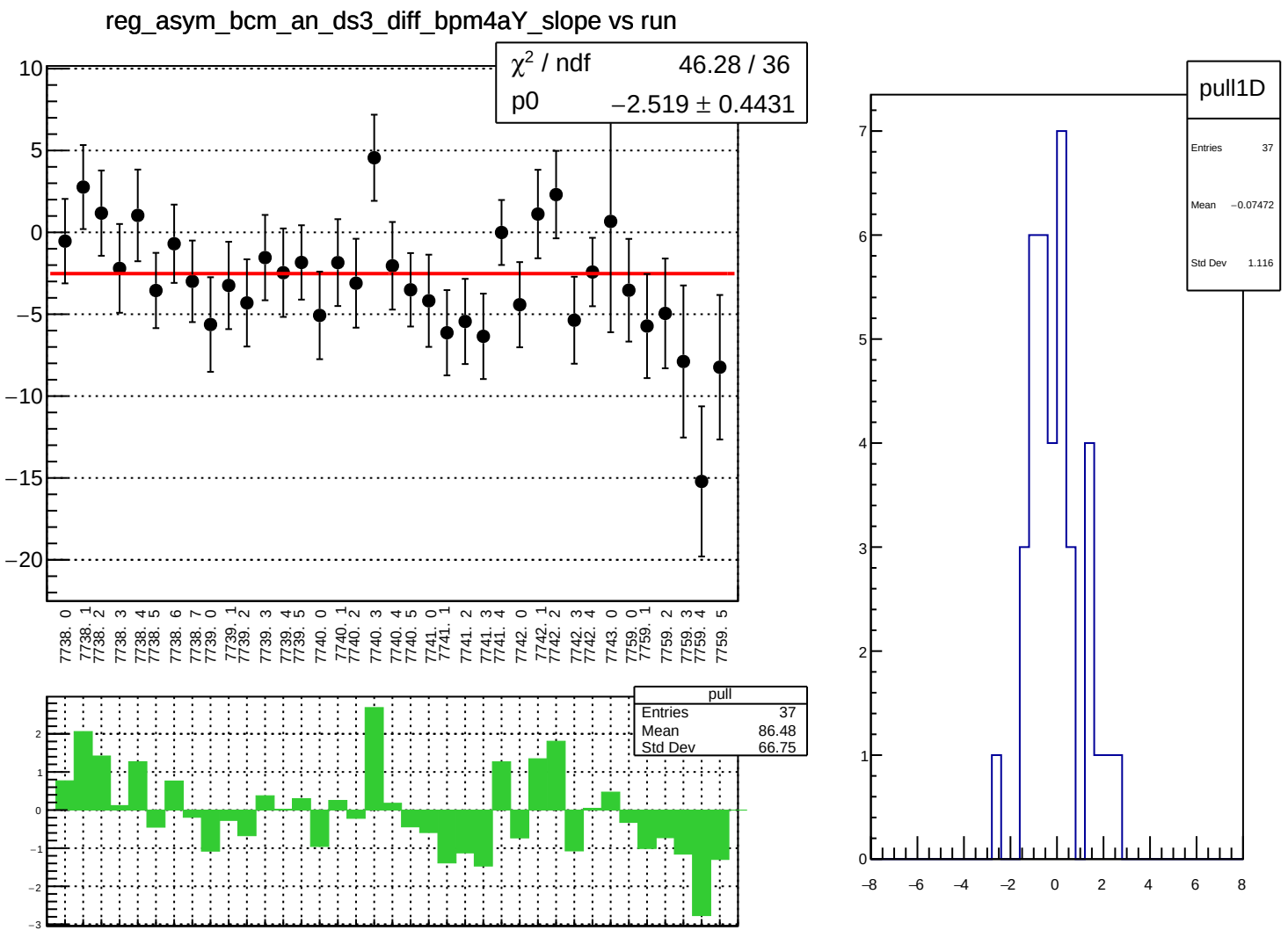

pull1D
Entries 37
Mean 0.158
Std Dev 0.8097

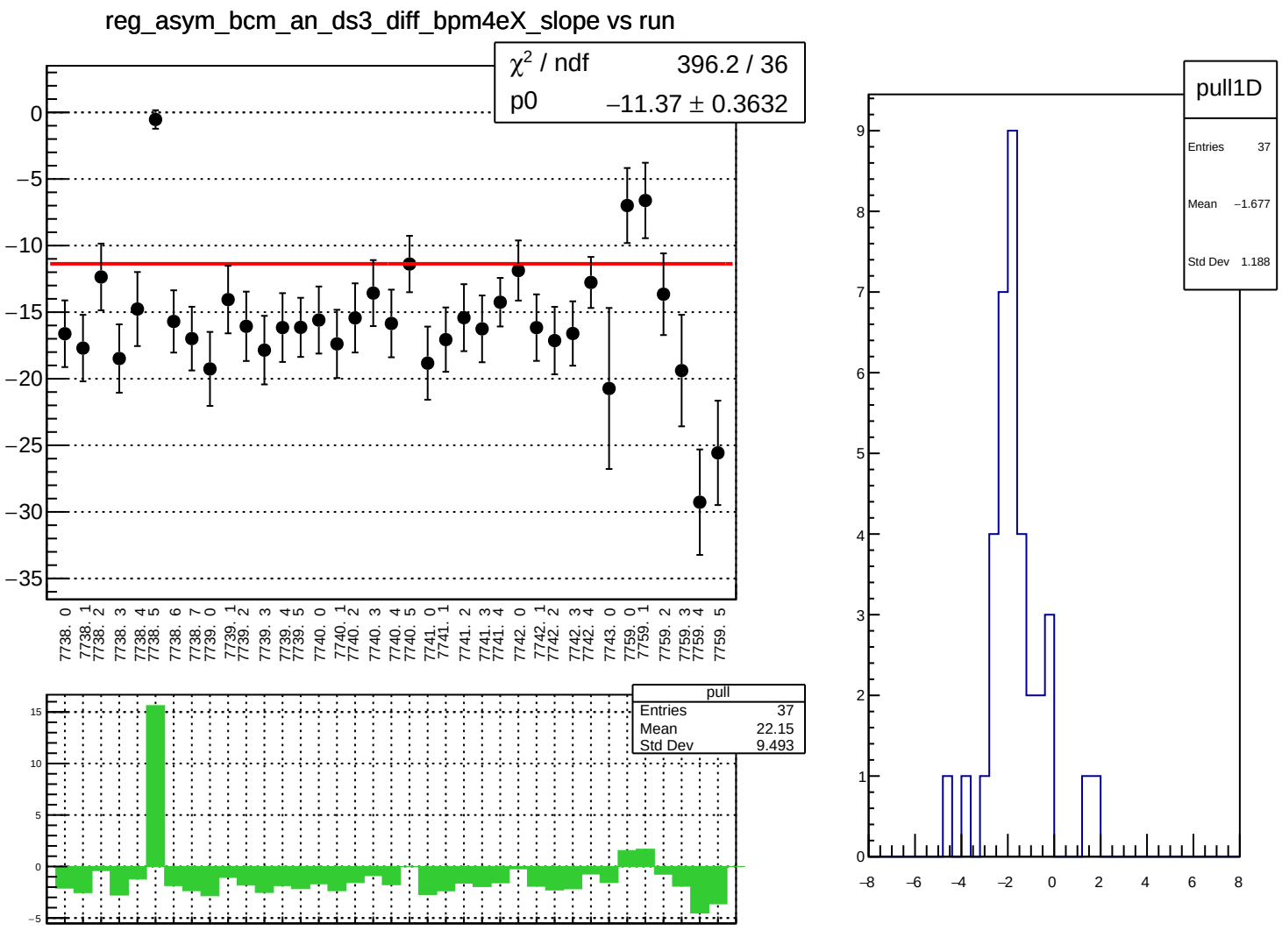

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.97 / 36
p0 10.51 ± 5.448
100
50
0
−50
−100
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 34.97
Std Dev 19.11
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 37
Mean 0.006406
Std Dev 0.592
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

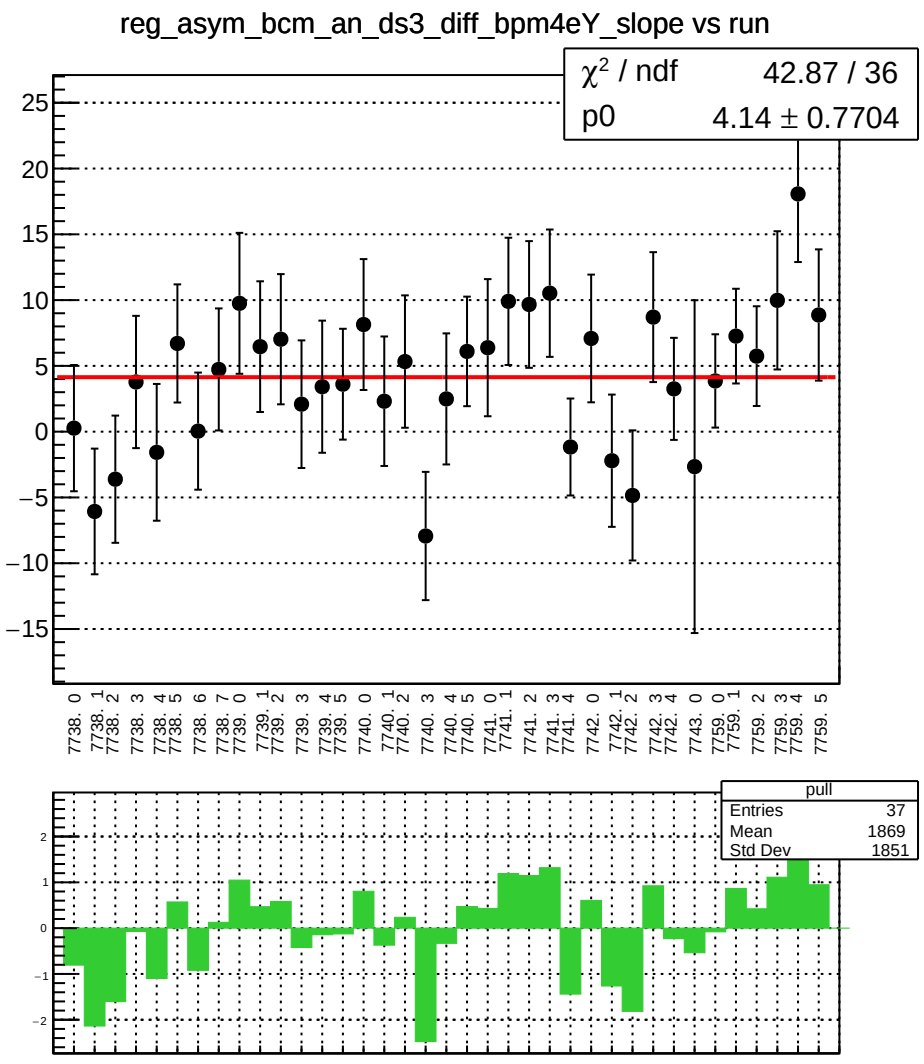

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 264.5 / 36
p0 18.29 ± 0.1754
28
26
24
22
20
18
16
14
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean −61.71
Std Dev 85.26
10
8
6
4
2
0
−2

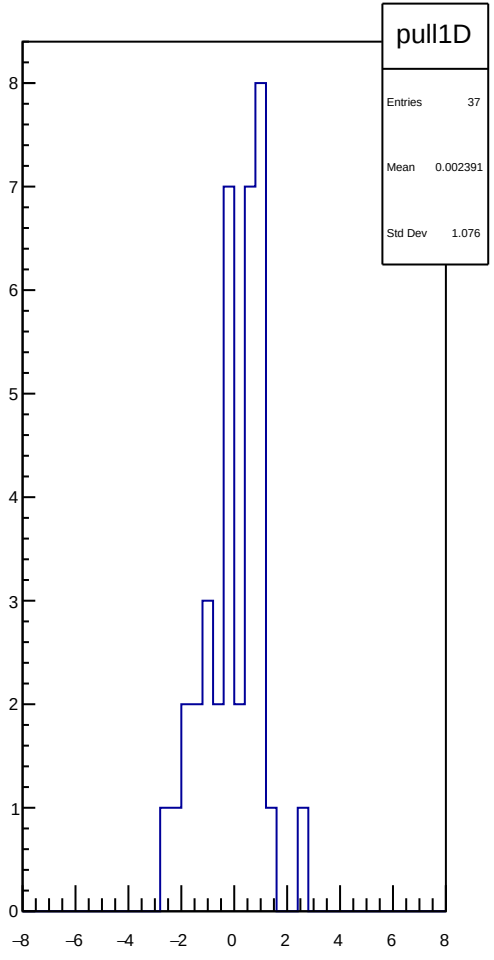

pull1D
Entries 37
Mean −0.719
Std Dev 1.423
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

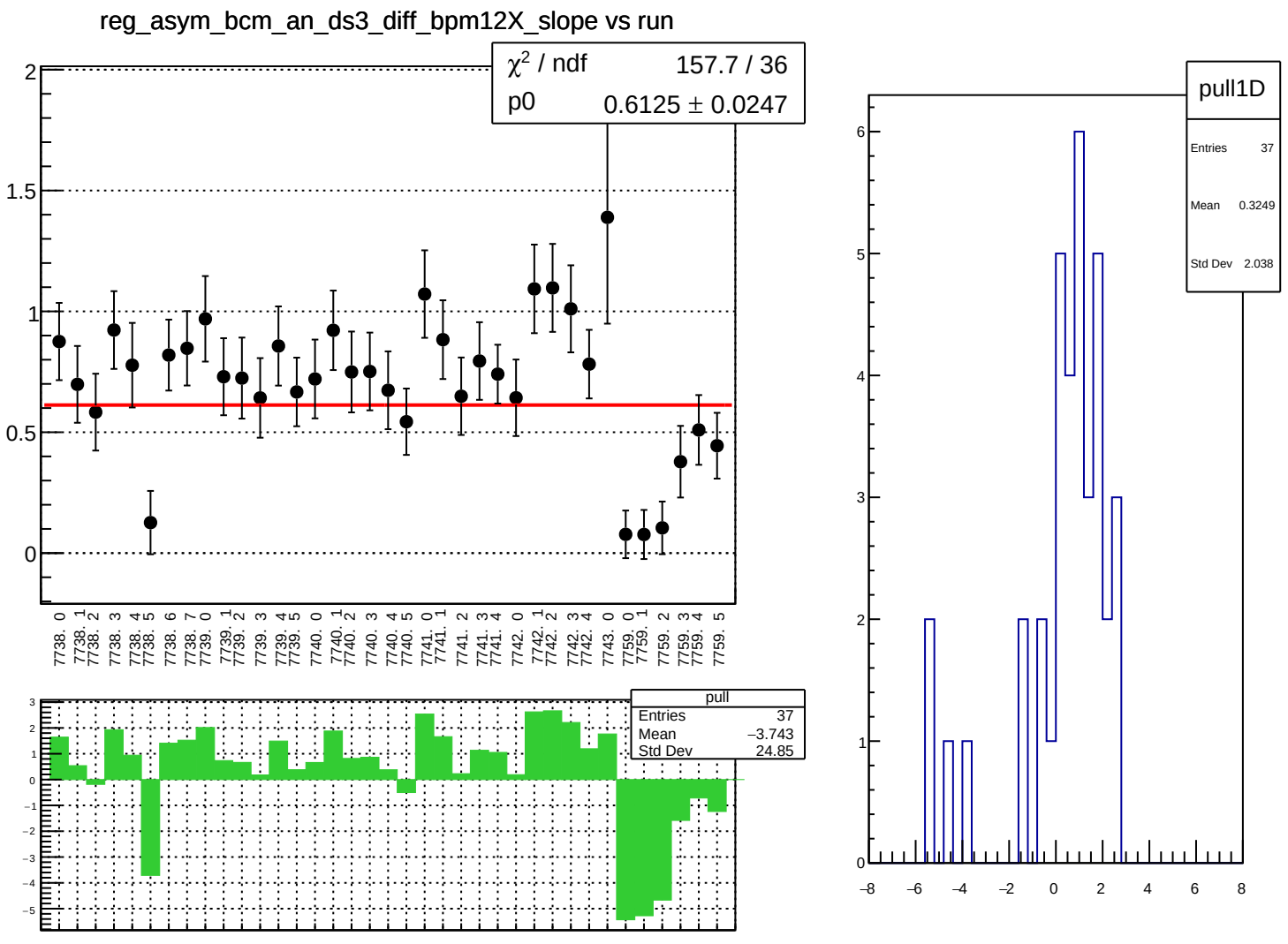

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 329 / 36
p0 11.91 ± 0.3704
pull
Entries 37
Mean 24.03
Std Dev 9.056
pull1D
Entries 37
Mean 1.409
Std Dev 1.185

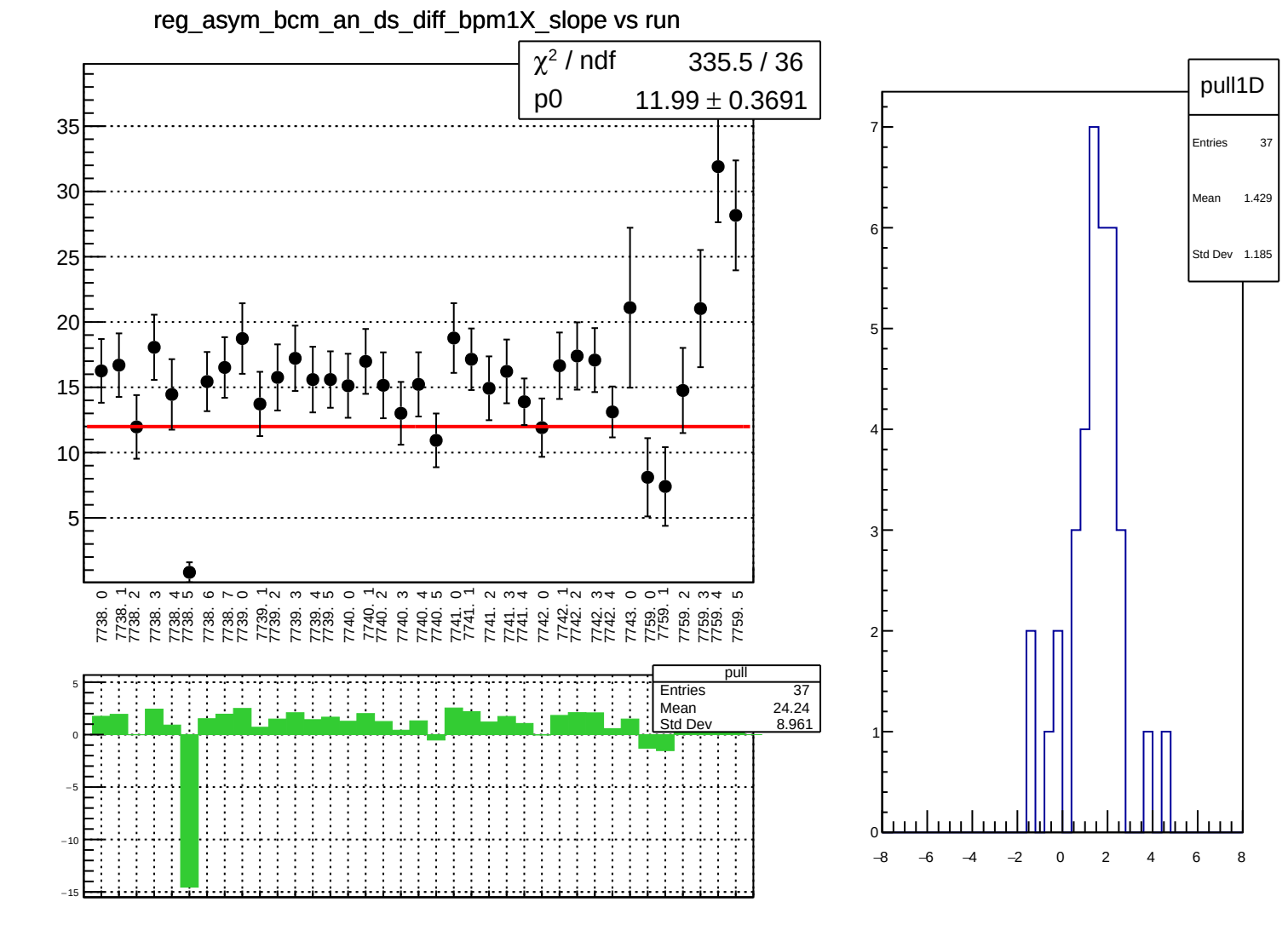

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 46.28 / 36
p0 −2.519 ± 0.4431
10
5
0
−5
−10
−15
−20
7738. 0
7738. 1
7738. 2
7738. 3
7738. 4
7738. 5
7738. 6
7738. 7
7739. 0
7739. 1
7739. 2
7739. 3
7739. 4
7739. 5
7740. 0
7740. 1
7740. 2
7740. 3
7740. 4
7740. 5
7741. 0
7741. 1
7741. 2
7741. 3
7741. 4
7742. 0
7742. 1
7742. 2
7742. 3
7742. 4
7743. 0
7759. 0
7759. 1
7759. 2
7759. 3
7759. 4
7759. 5
pull
Entries 37
Mean 86.48
Std Dev 66.75
2
1
0
−1
−2
−3
pull1D
Entries 37
Mean −0.07472
Std Dev 1.116
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

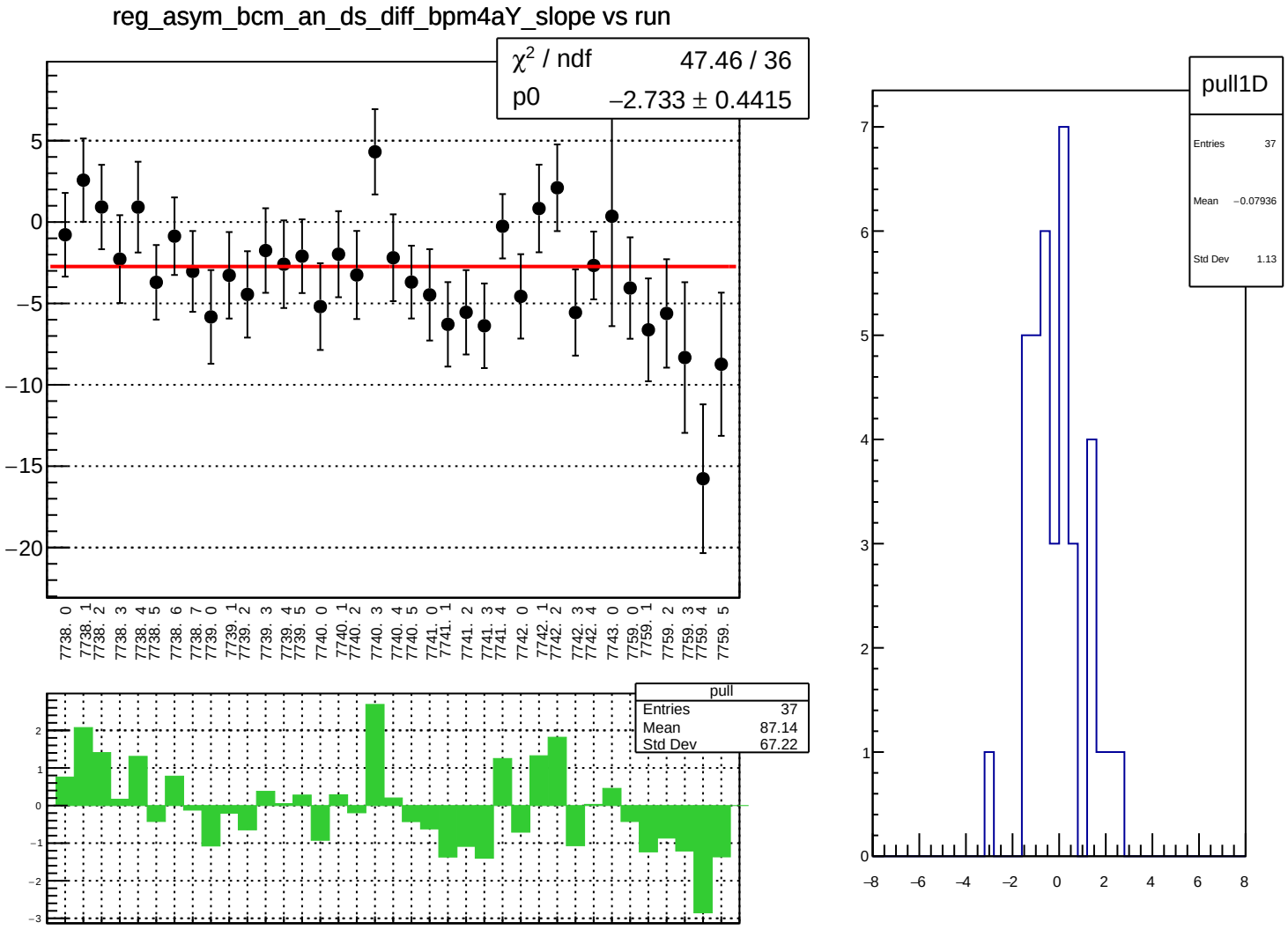

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 396.2 / 36
p0 −11.37 ± 0.3632
pull
Entries 37
Mean 22.15
Std Dev 9.493
pull1D
Entries 37
Mean −1.677
Std Dev 1.188

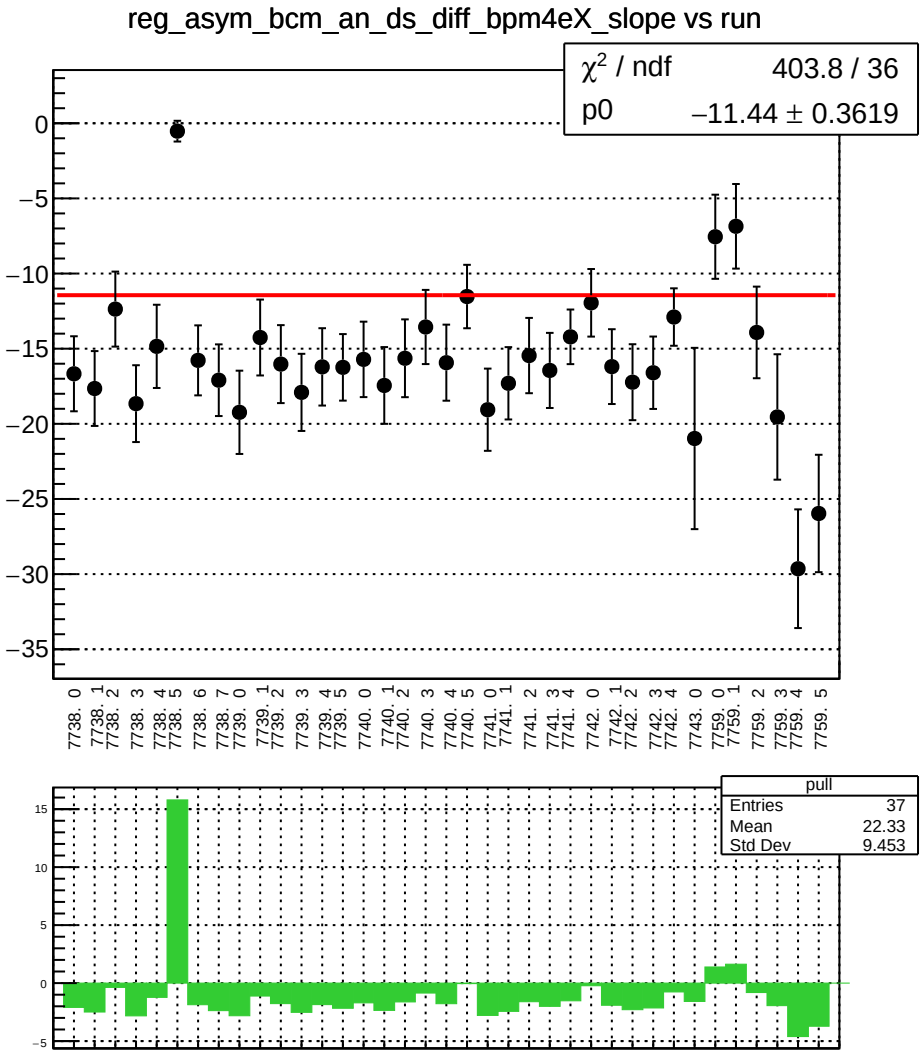

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 42.87 / 36
p0 4.14 ± 0.7704
pull
Entries 37
Mean 1869
Std Dev 1851

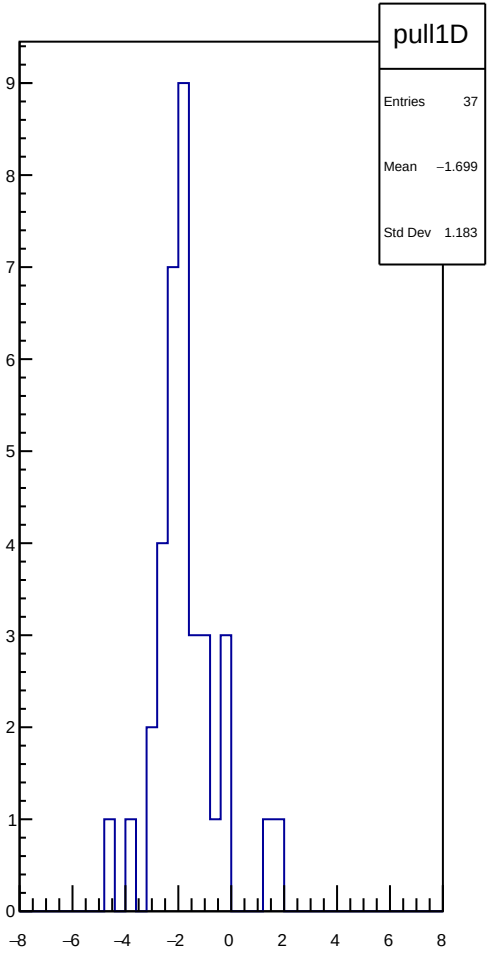

pull1D
Entries 37
Mean 0.002391
Std Dev 1.076

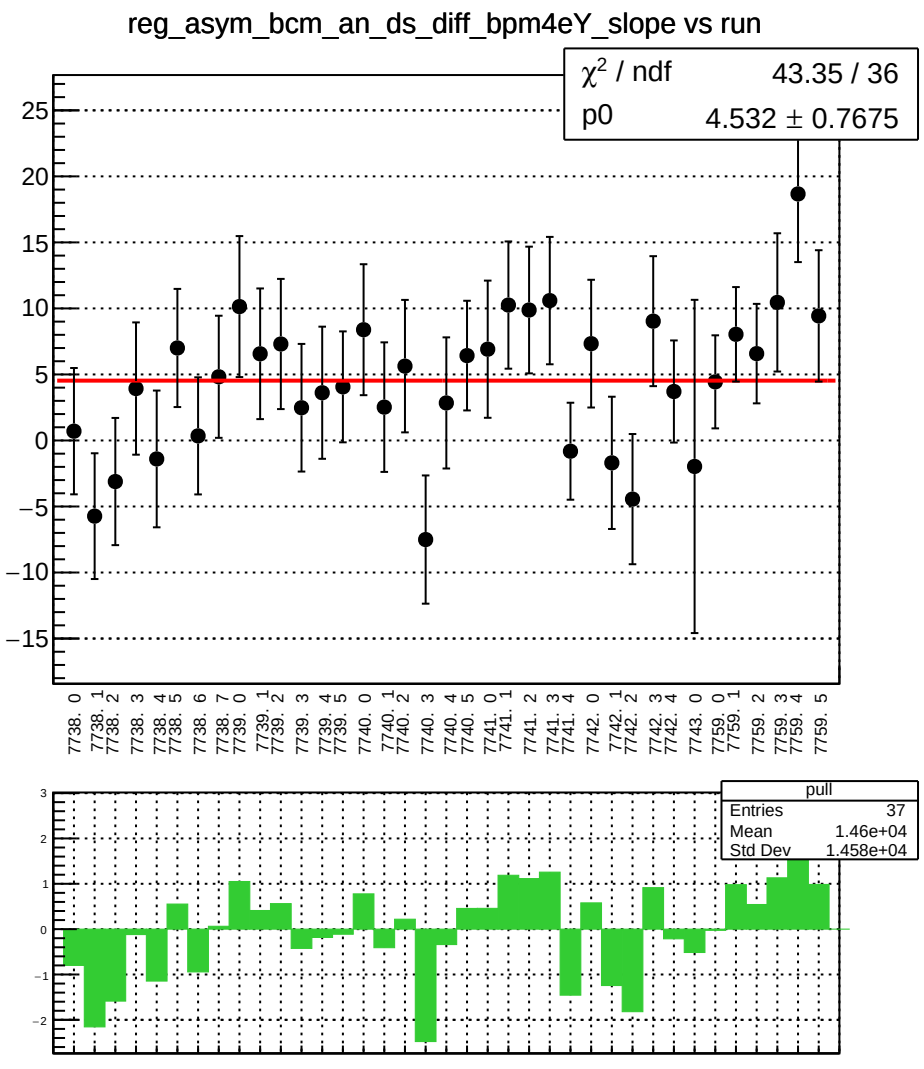

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 157.7 / 36
p0 0.6125 ± 0.0247
pull
Entries 37
Mean −3.743
Std Dev 24.85
pull1D
Entries 37
Mean 0.3249
Std Dev 2.038

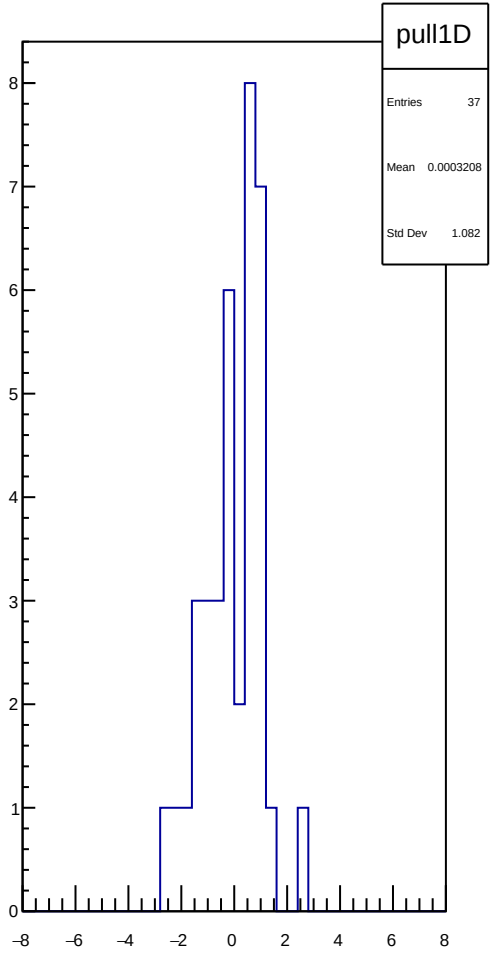

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 335.5 / 36
p0 11.99 ± 0.3691
pull
Entries 37
Mean 24.24
Std Dev 8.961
pull1D
Entries 37
Mean 1.429
Std Dev 1.185

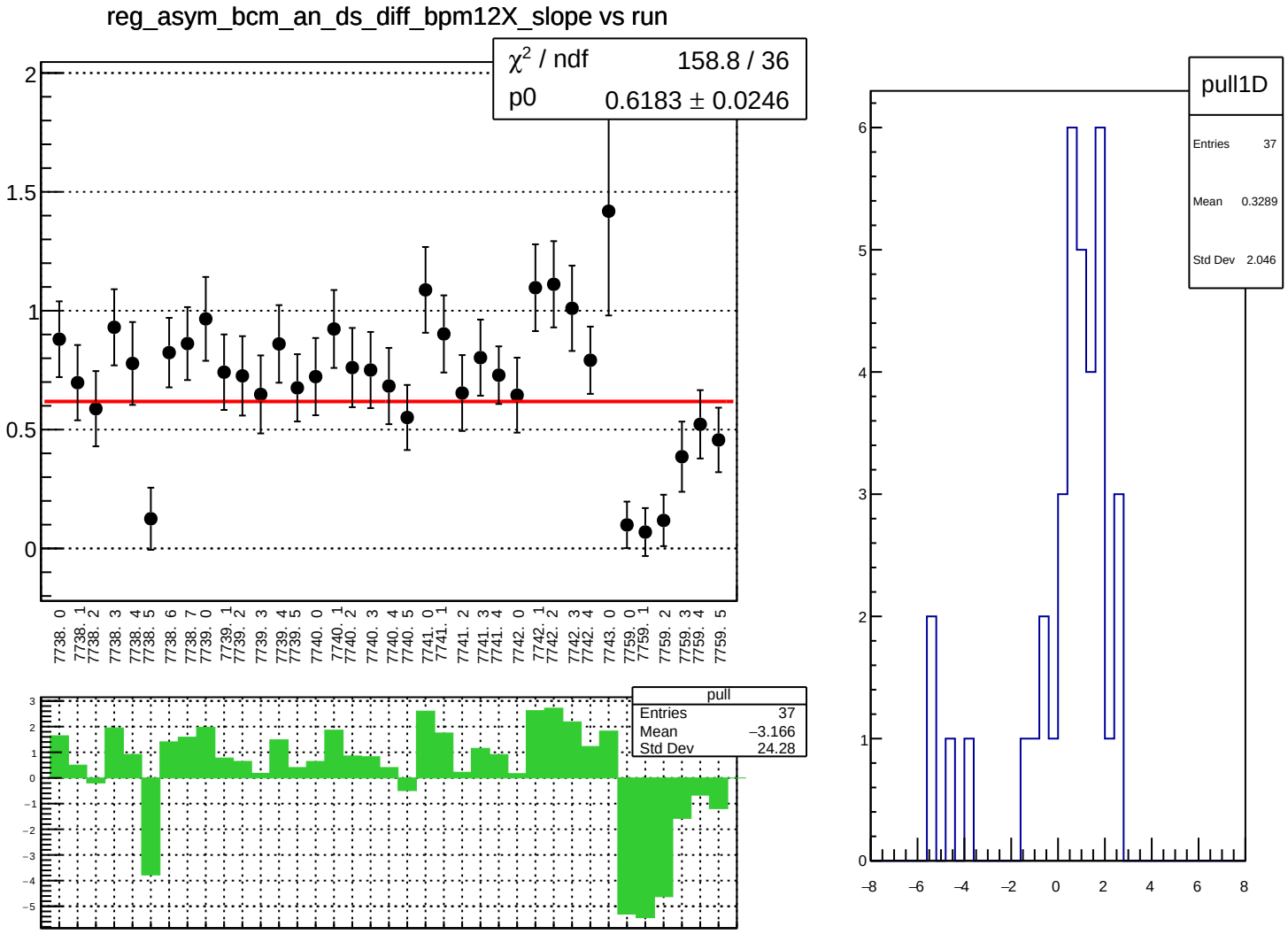

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 47.46 / 36
p0 −2.733 ± 0.4415
pull
Entries 37
Mean 87.14
Std Dev 67.22
pull1D
Entries 37
Mean −0.07936
Std Dev 1.13

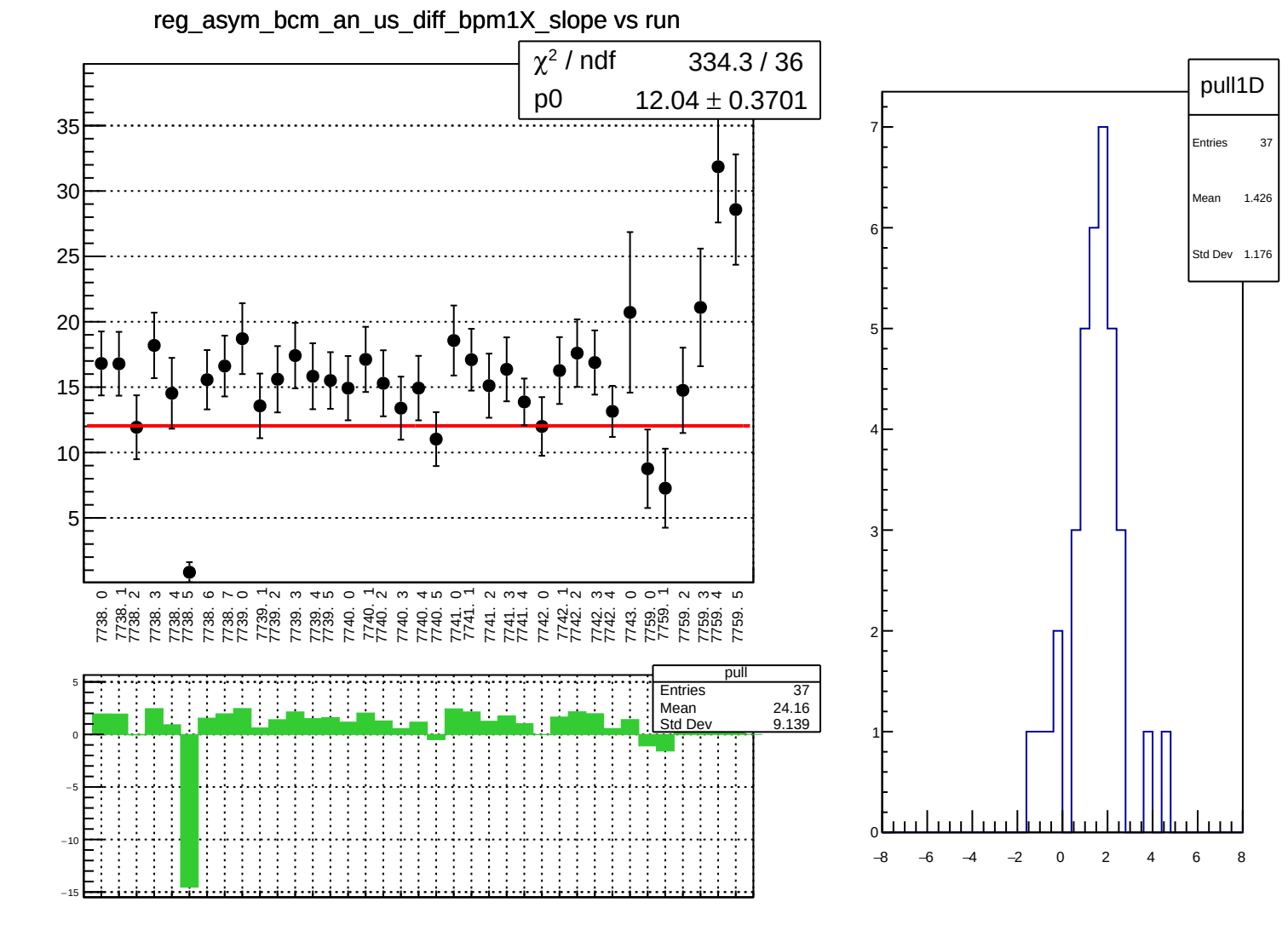

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 403.8 / 36
p0 −11.44 ± 0.3619
pull
Entries 37
Mean 22.33
Std Dev 9.453

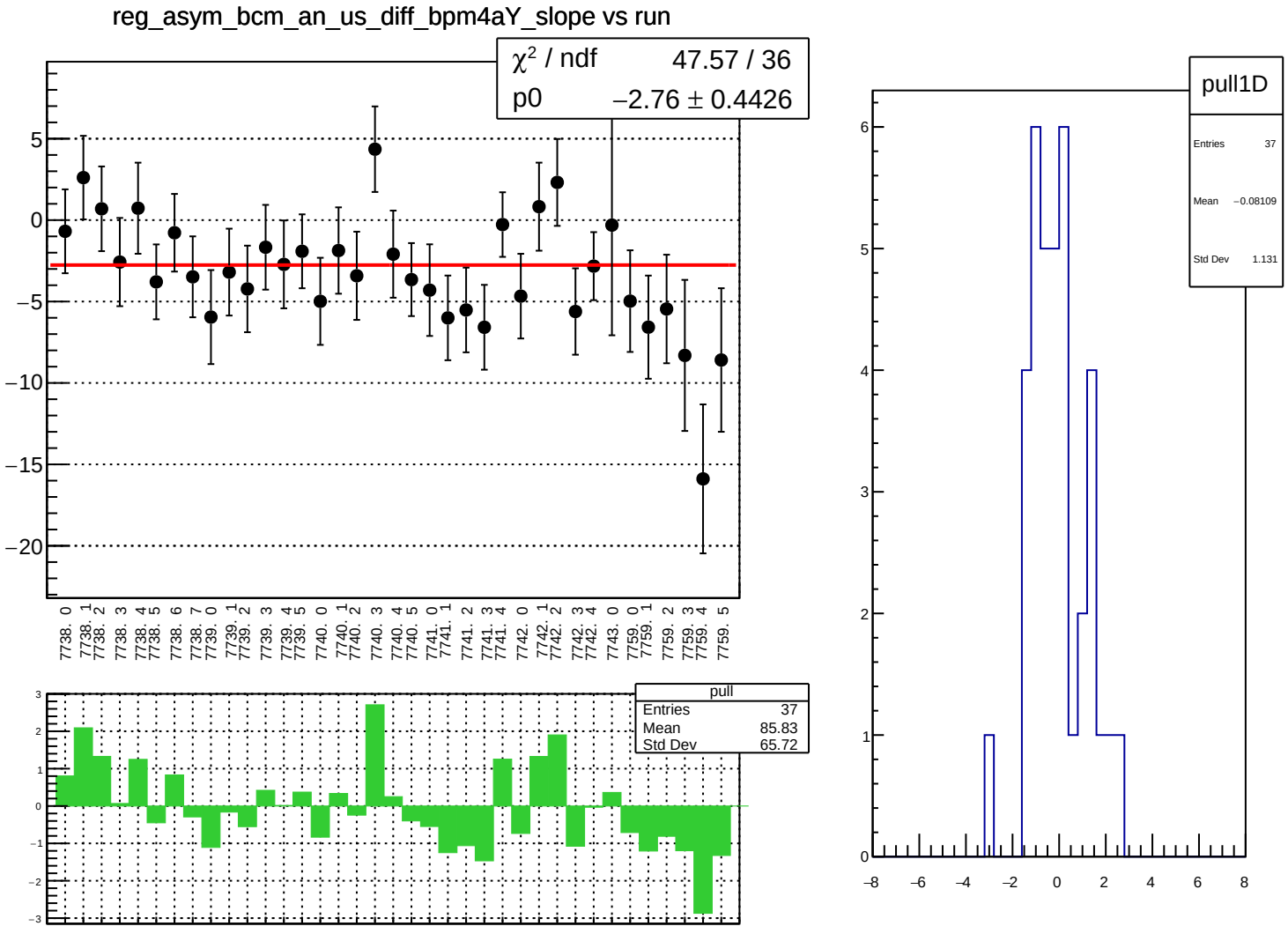

pull1D
Entries 37
Mean −1.699
Std Dev 1.183

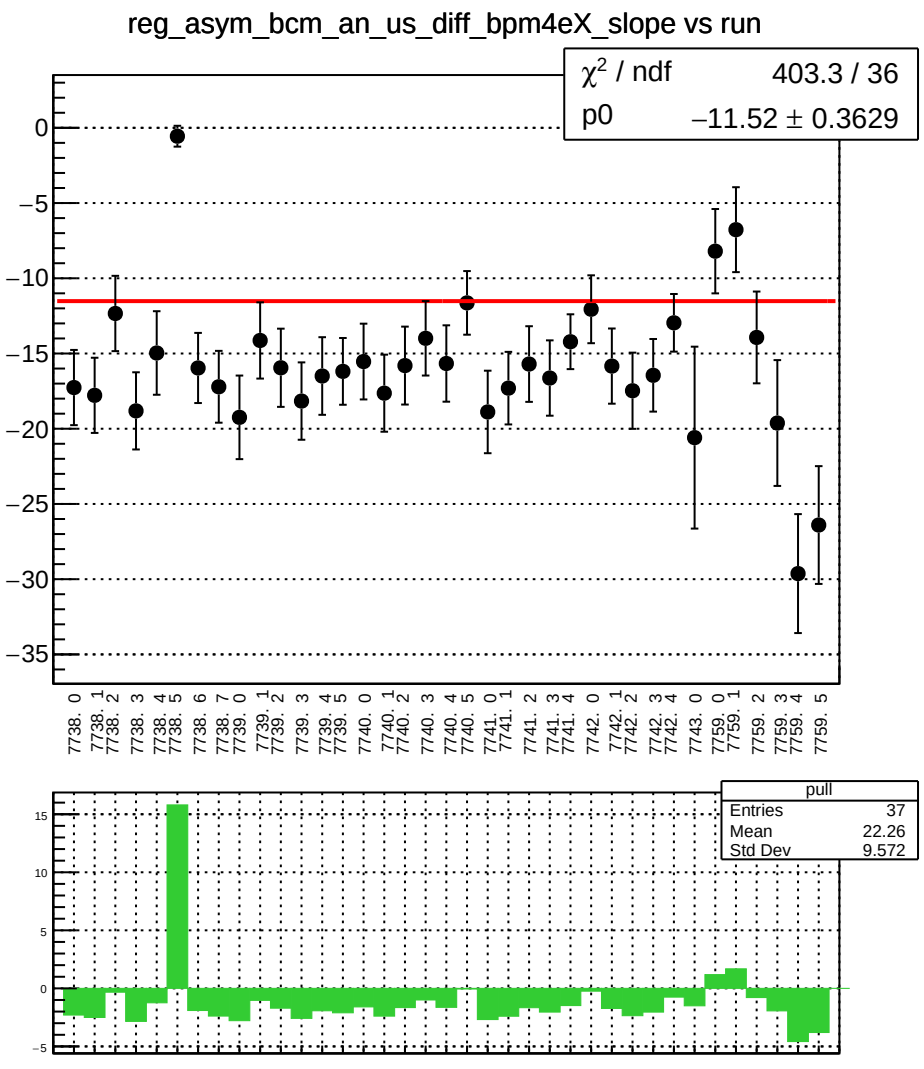

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 43.35 / 36
p0 4.532 ± 0.7675
pull
Entries 37
Mean 1.46e+04
Std Dev 1.458e+04

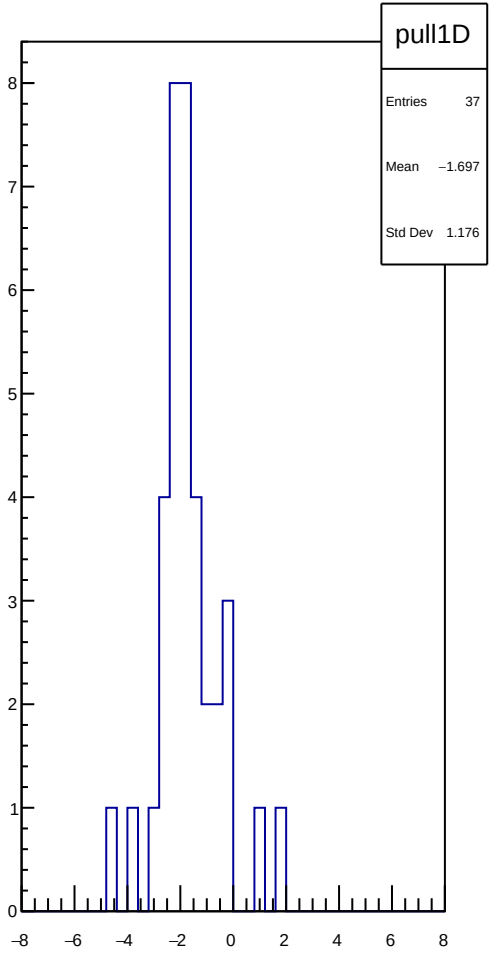

pull1D
Entries 37
Mean 0.0003208
Std Dev 1.082

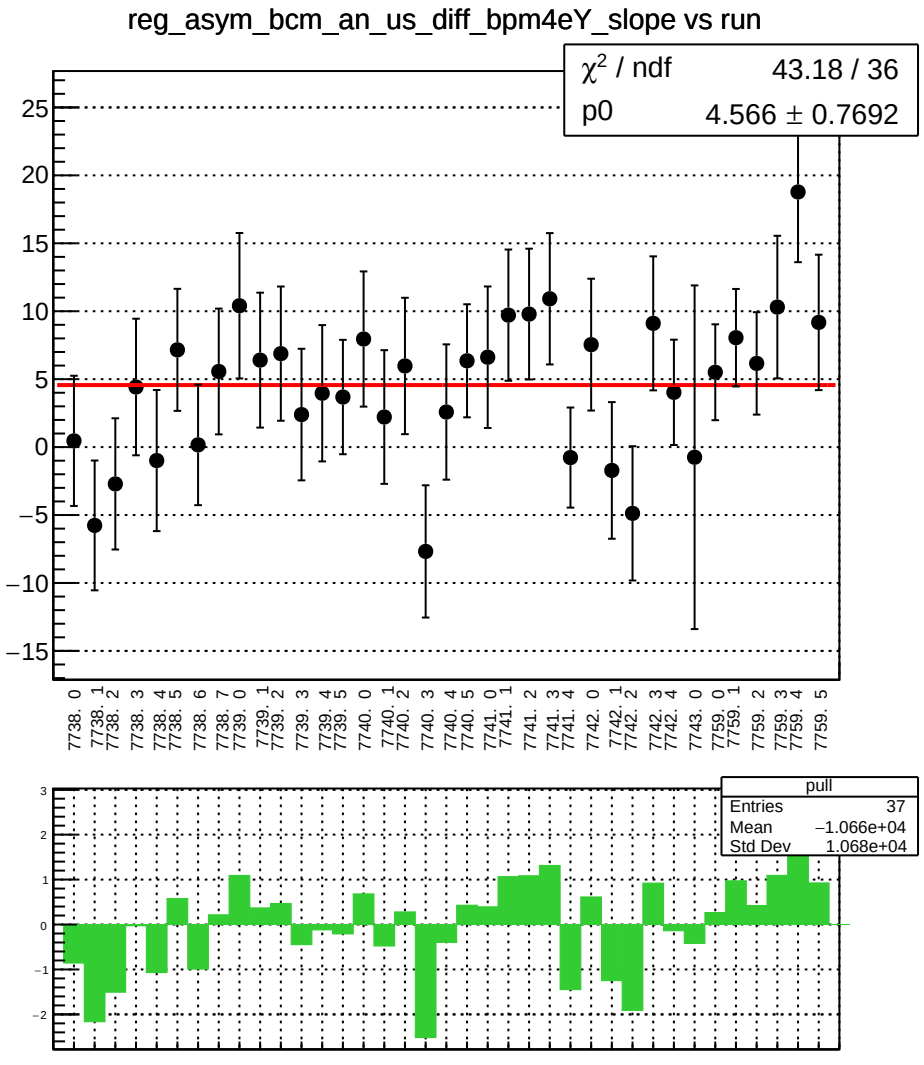

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 158.8 / 36
p0 0.6183 ± 0.0246
pull
Entries 37
Mean −3.166
Std Dev 24.28
pull1D
Entries 37
Mean 0.3289
Std Dev 2.046

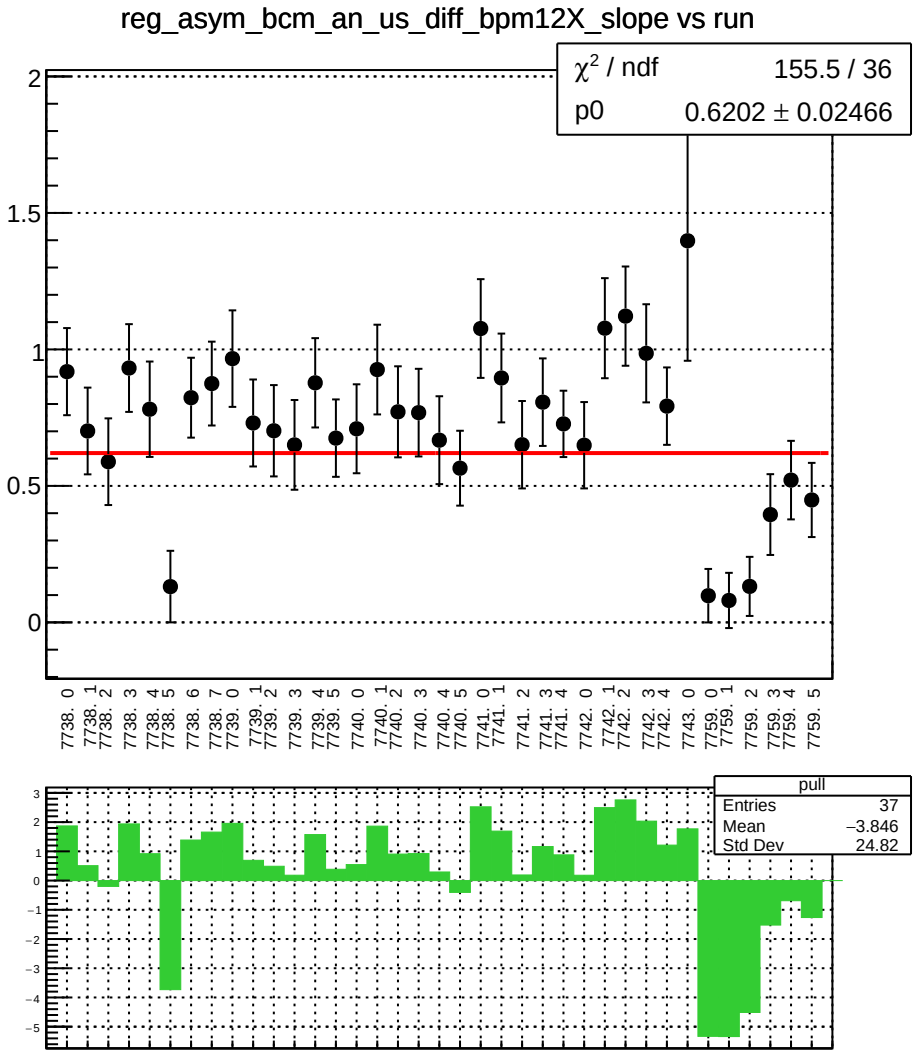

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 334.3 / 36
p0 12.04 ± 0.3701
pull
Entries 37
Mean 24.16
Std Dev 9.139
pull1D
Entries 37
Mean 1.426
Std Dev 1.176

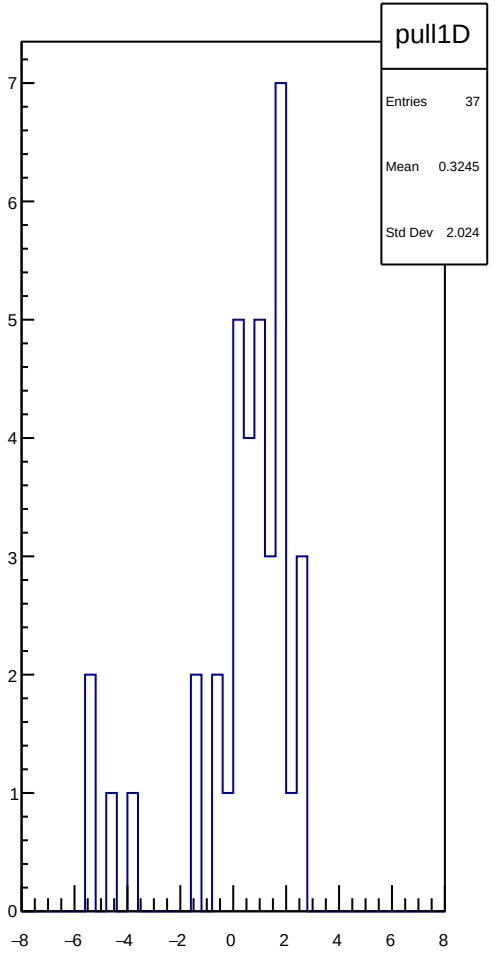

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 47.57 / 36
p0 −2.76 ± 0.4426
pull
Entries 37
Mean 85.83
Std Dev 65.72
pull1D
Entries 37
Mean −0.08109
Std Dev 1.131

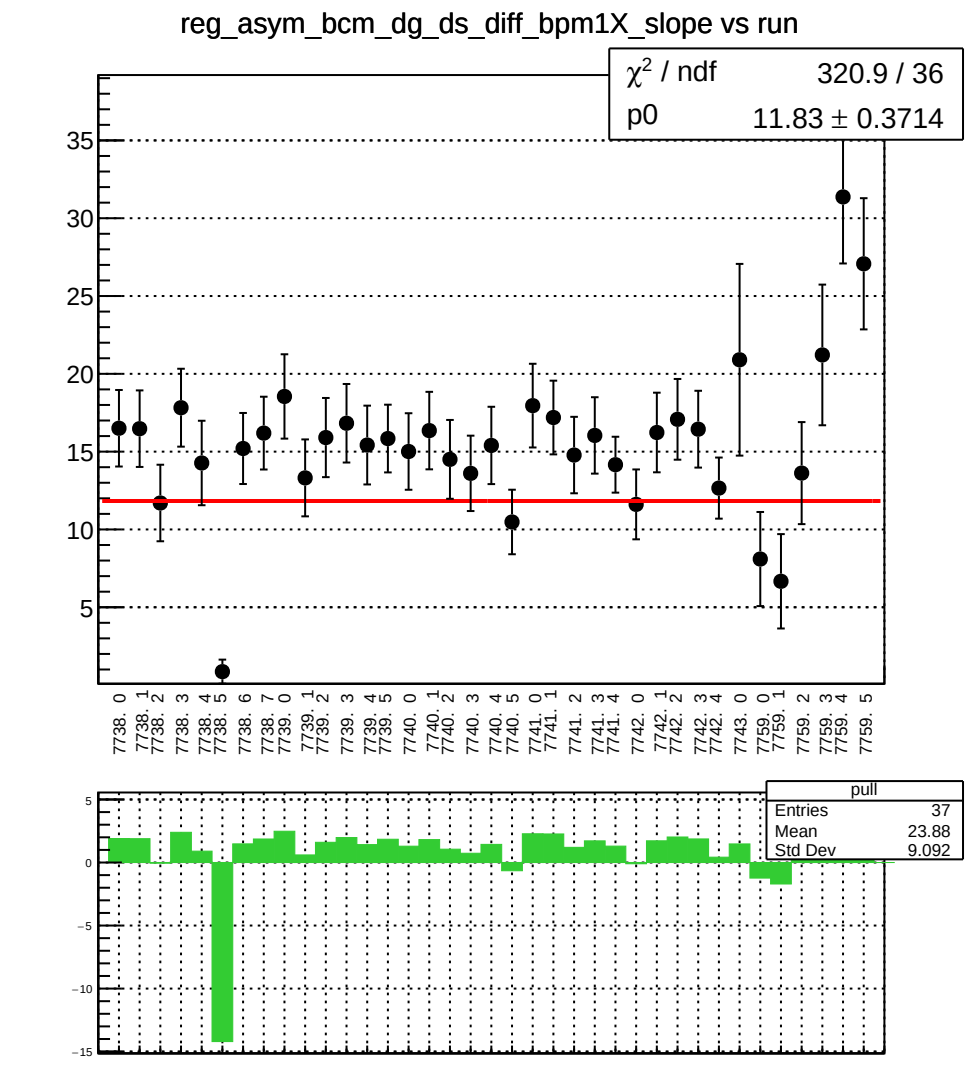

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 403.3 / 36
p0 −11.52 ± 0.3629
pull
Entries 37
Mean 22.26
Std Dev 9.572

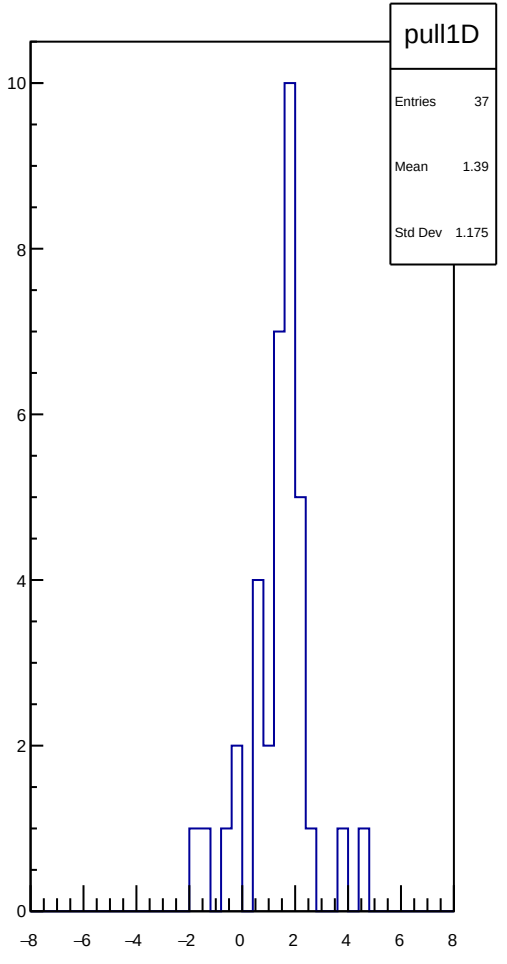

pull1D
Entries 37
Mean −1.697
Std Dev 1.176

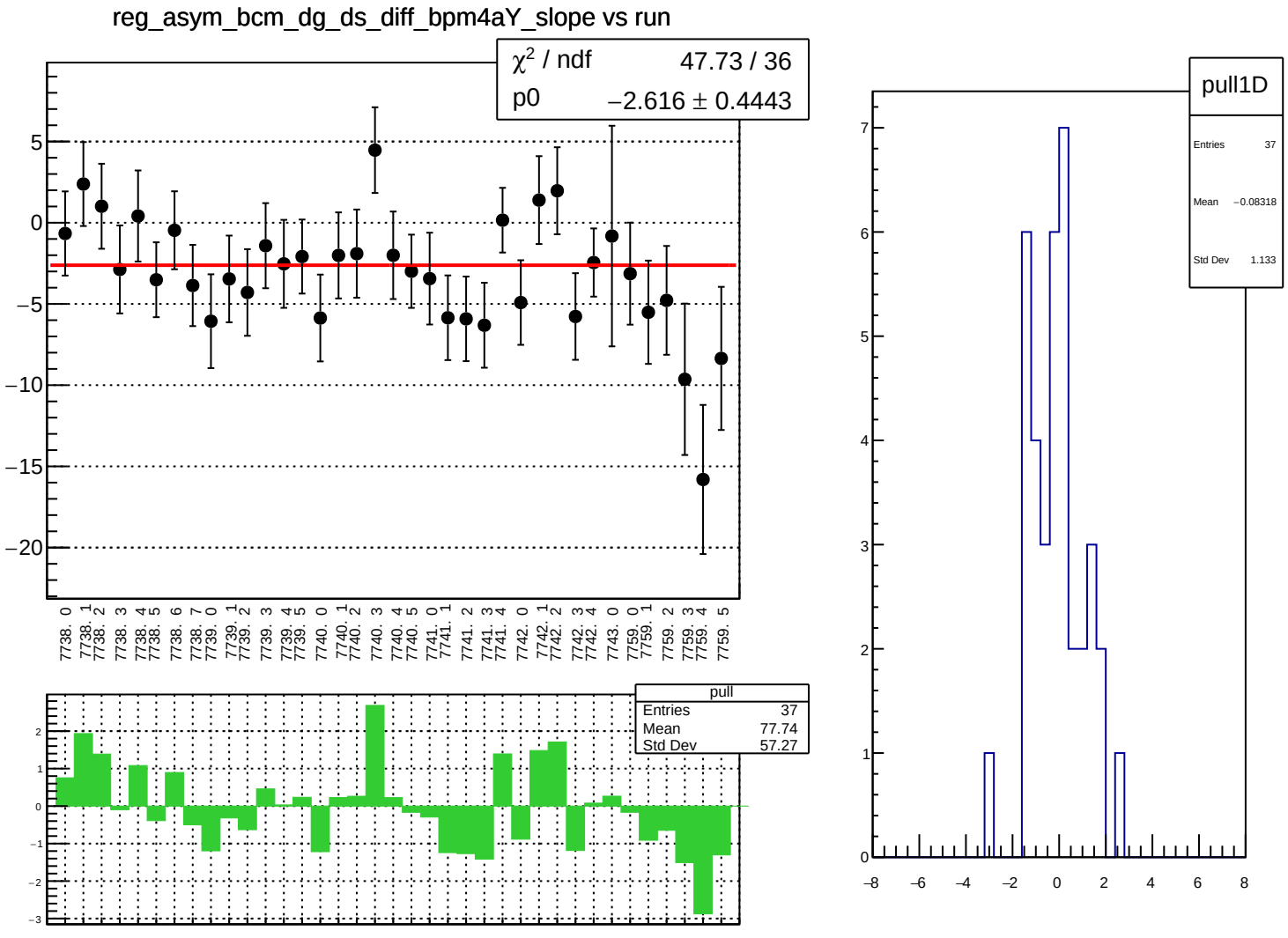

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 43.18 / 36
p0 4.566 ± 0.7692
pull
Entries 37
Mean −1.066e+04
Std Dev 1.068e+04
pull1D
Entries 37
Mean −0.0004354
Std Dev 1.08

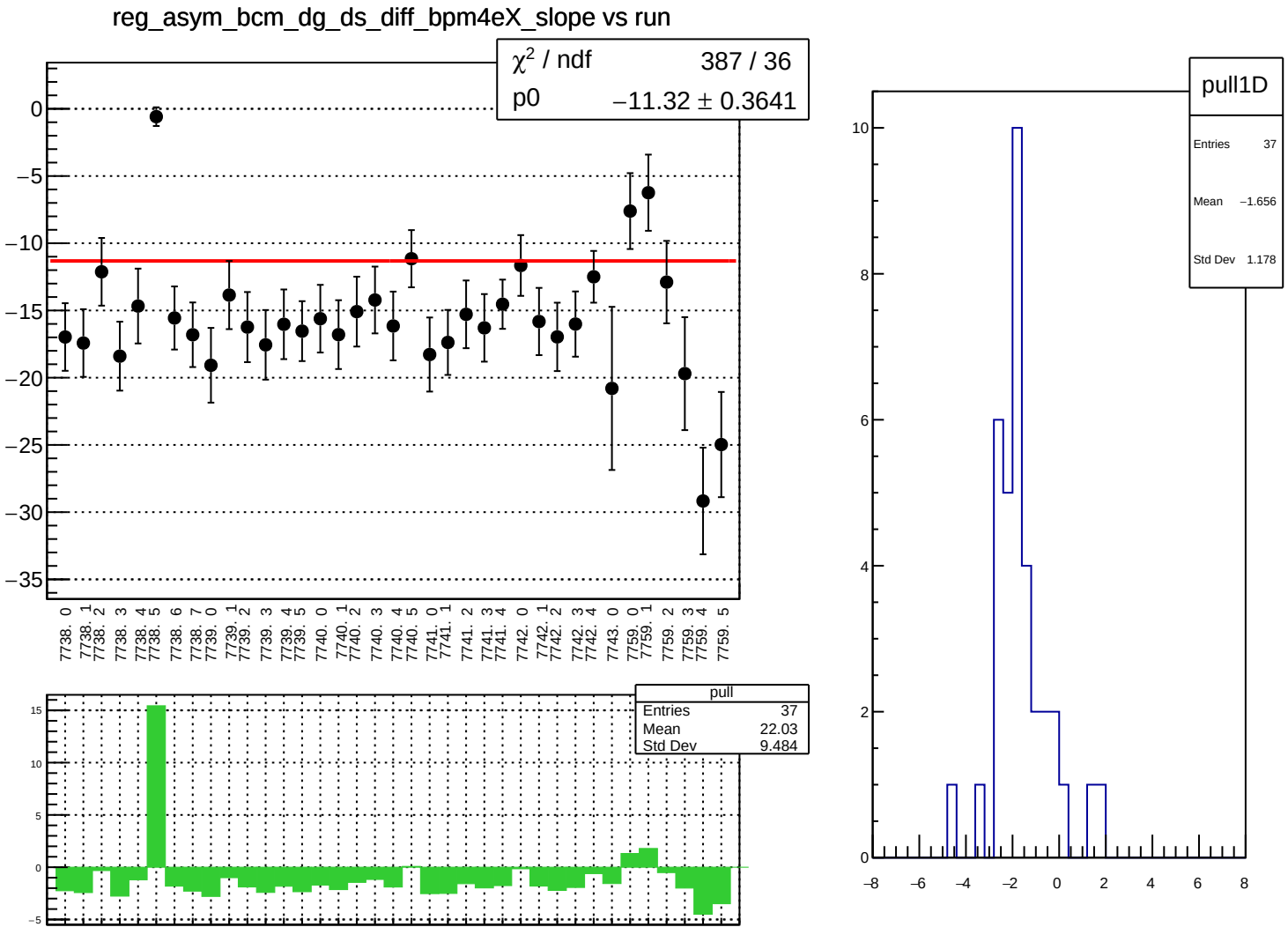

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 155.5 / 36
p0 0.6202 ± 0.02466
pull
Entries 37
Mean −3.846
Std Dev 24.82

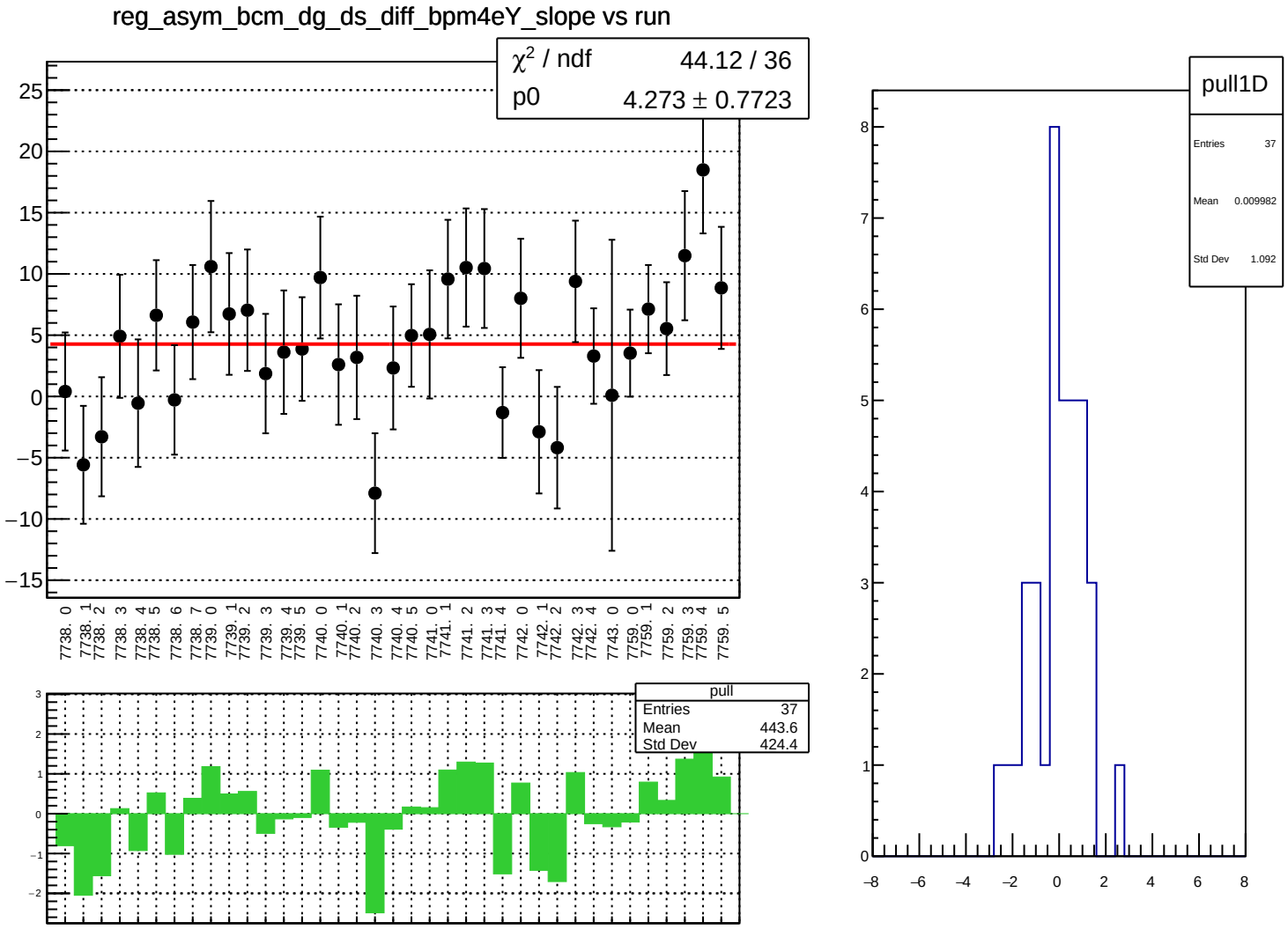

pull1D
Entries 37
Mean 0.3245
Std Dev 2.024

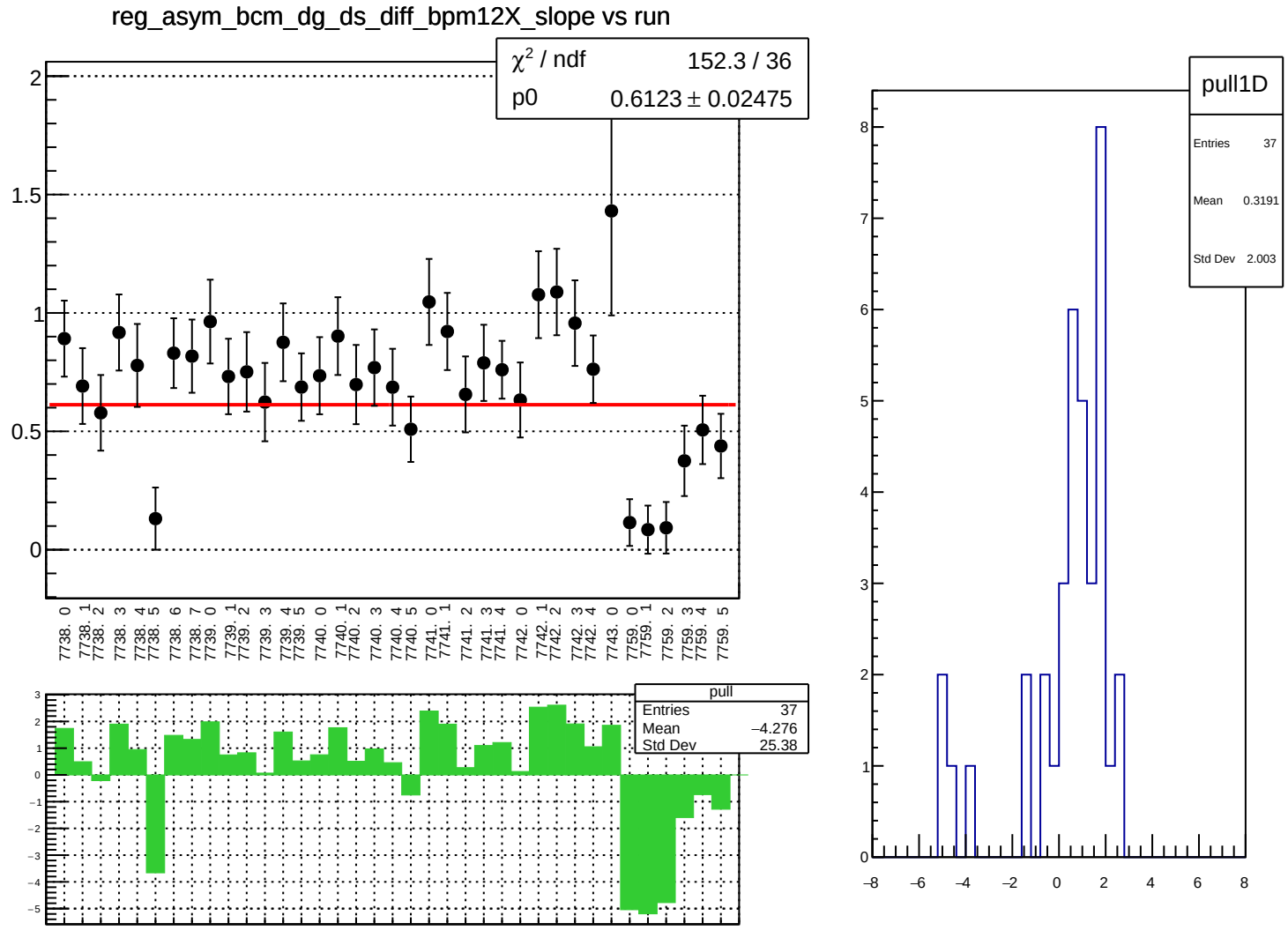

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 320.9 / 36
p0 11.83 ± 0.3714
pull
Entries 37
Mean 23.88
Std Dev 9.092

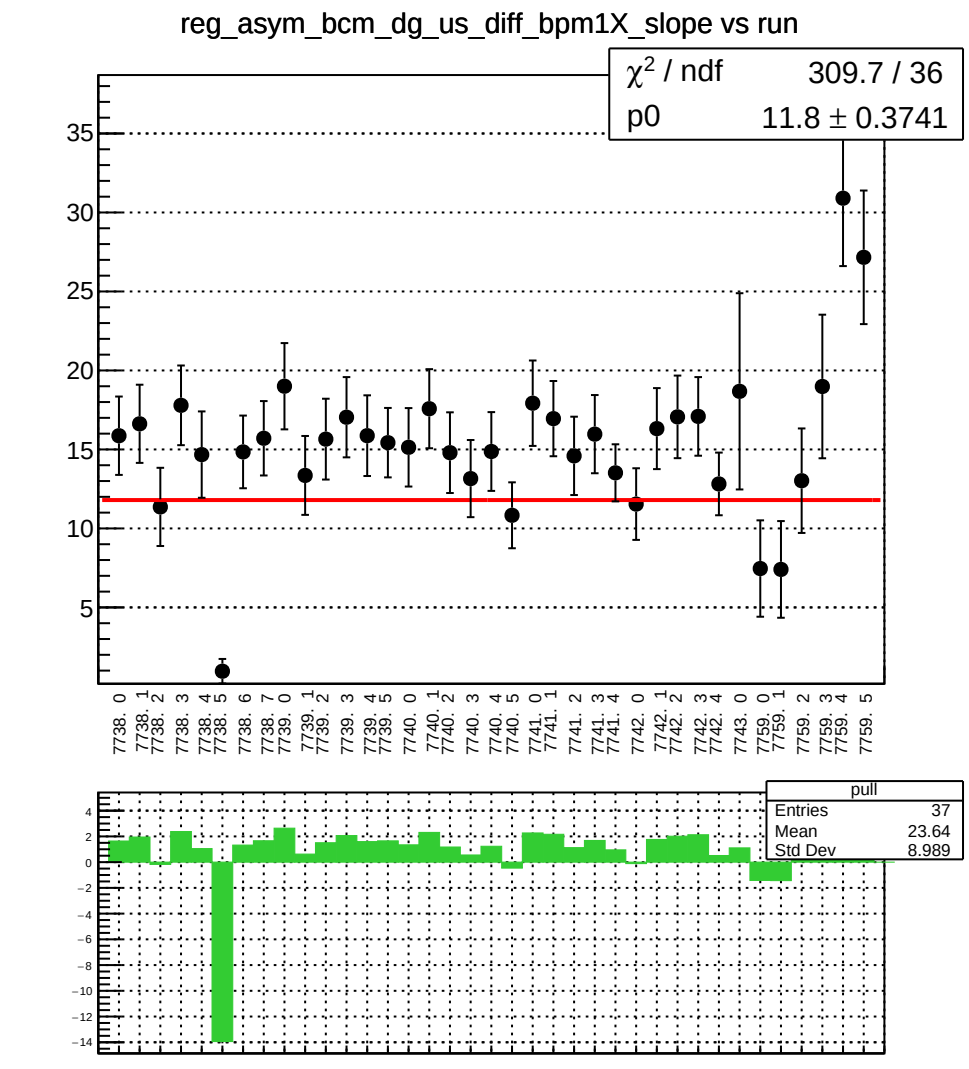

pull1D
Entries 37
Mean 1.39
Std Dev 1.175

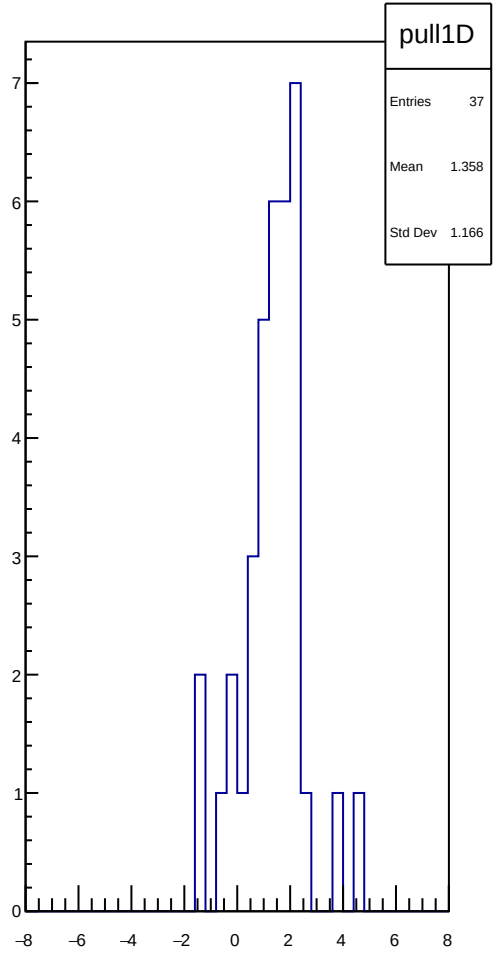

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 47.73 / 36
p0 −2.616 ± 0.4443
pull
Entries 37
Mean 77.74
Std Dev 57.27
pull1D
Entries 37
Mean −0.08318
Std Dev 1.133

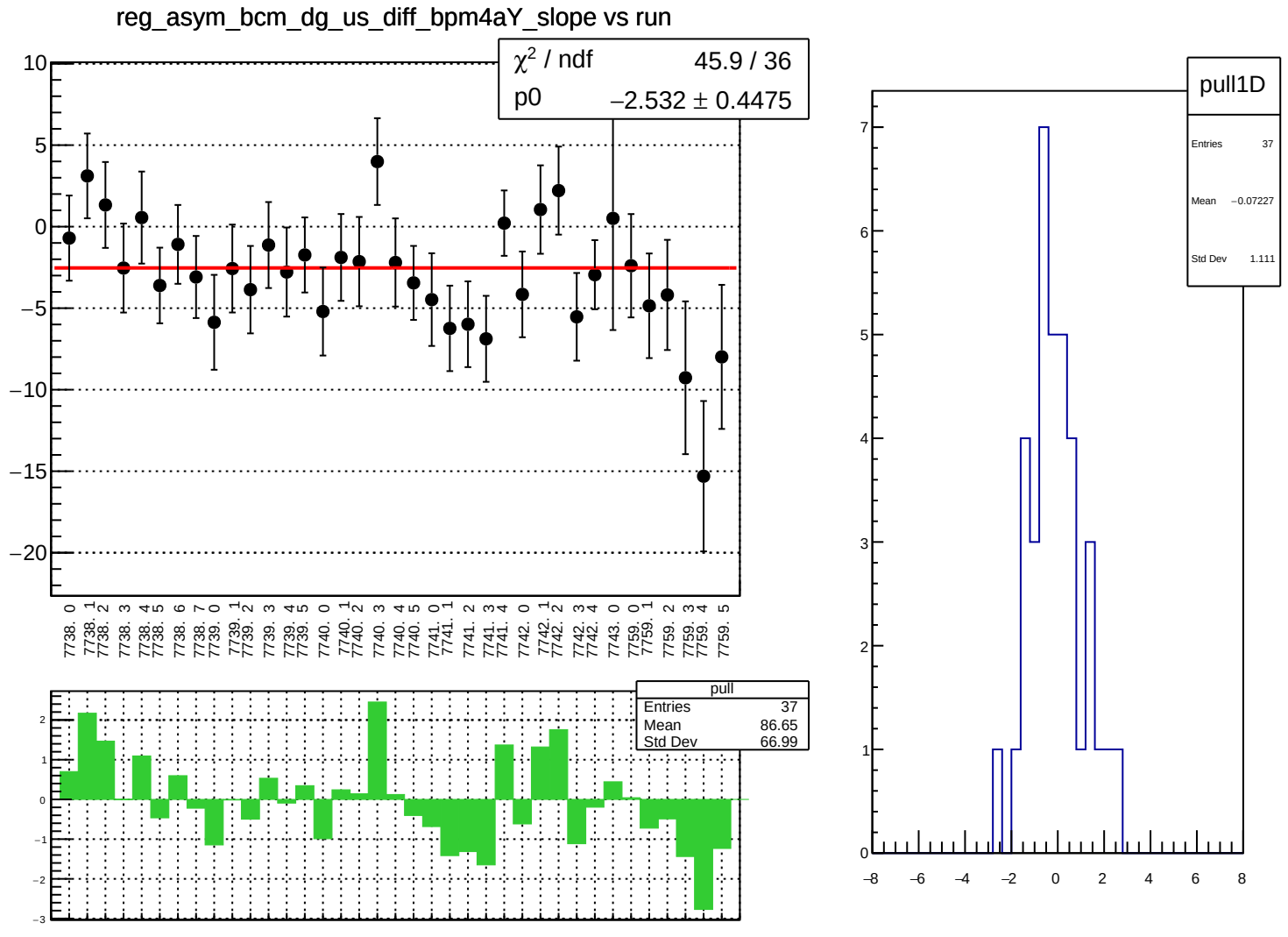

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 387 / 36
p0 −11.32 ± 0.3641
pull
Entries 37
Mean 22.03
Std Dev 9.484
pull1D
Entries 37
Mean −1.656
Std Dev 1.178

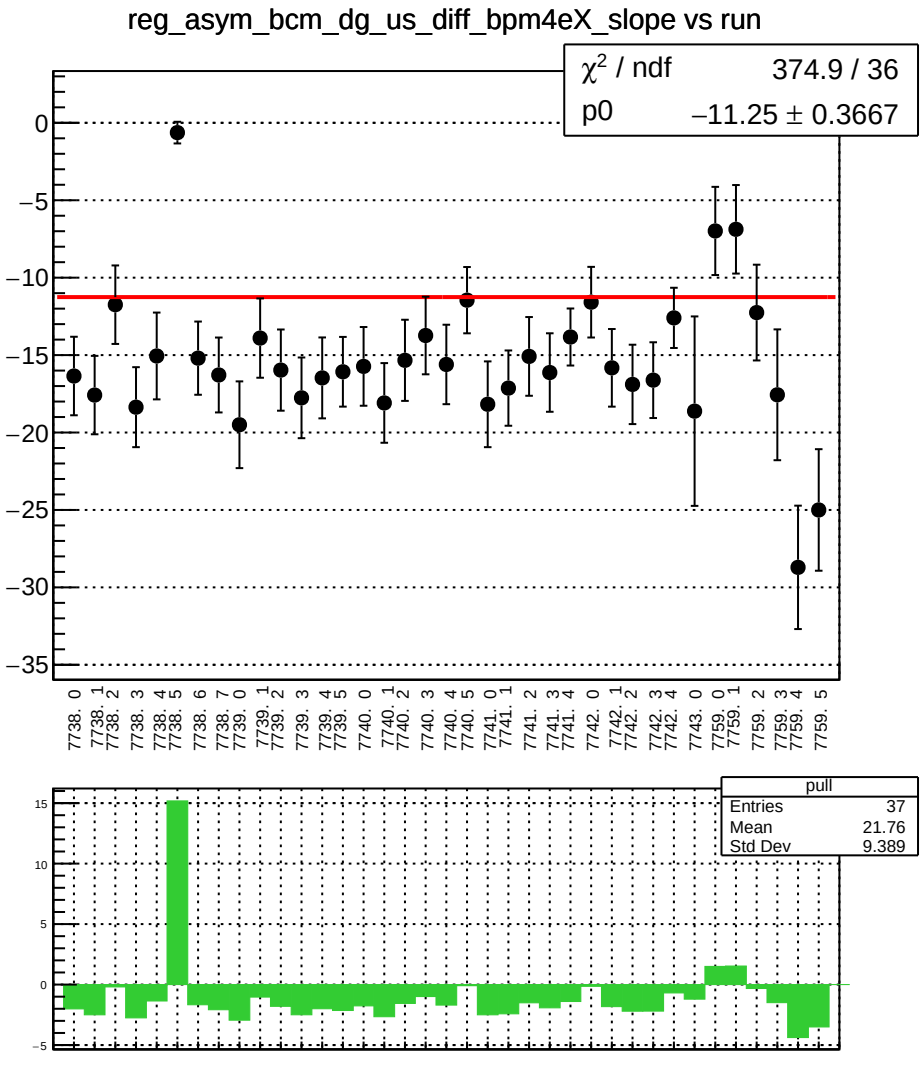

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 44.12 / 36
p0 4.273 ± 0.7723
pull
Entries 37
Mean 443.6
Std Dev 424.4
pull1D
Entries 37
Mean 0.009982
Std Dev 1.092

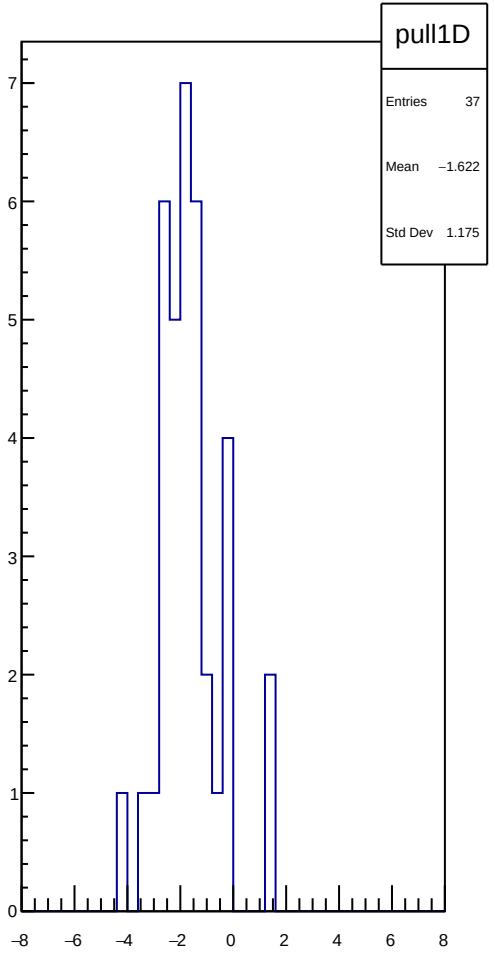

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 152.3 / 36
p0 0.6123 ± 0.02475
pull
Entries 37
Mean −4.276
Std Dev 25.38
pull1D
Entries 37
Mean 0.3191
Std Dev 2.003

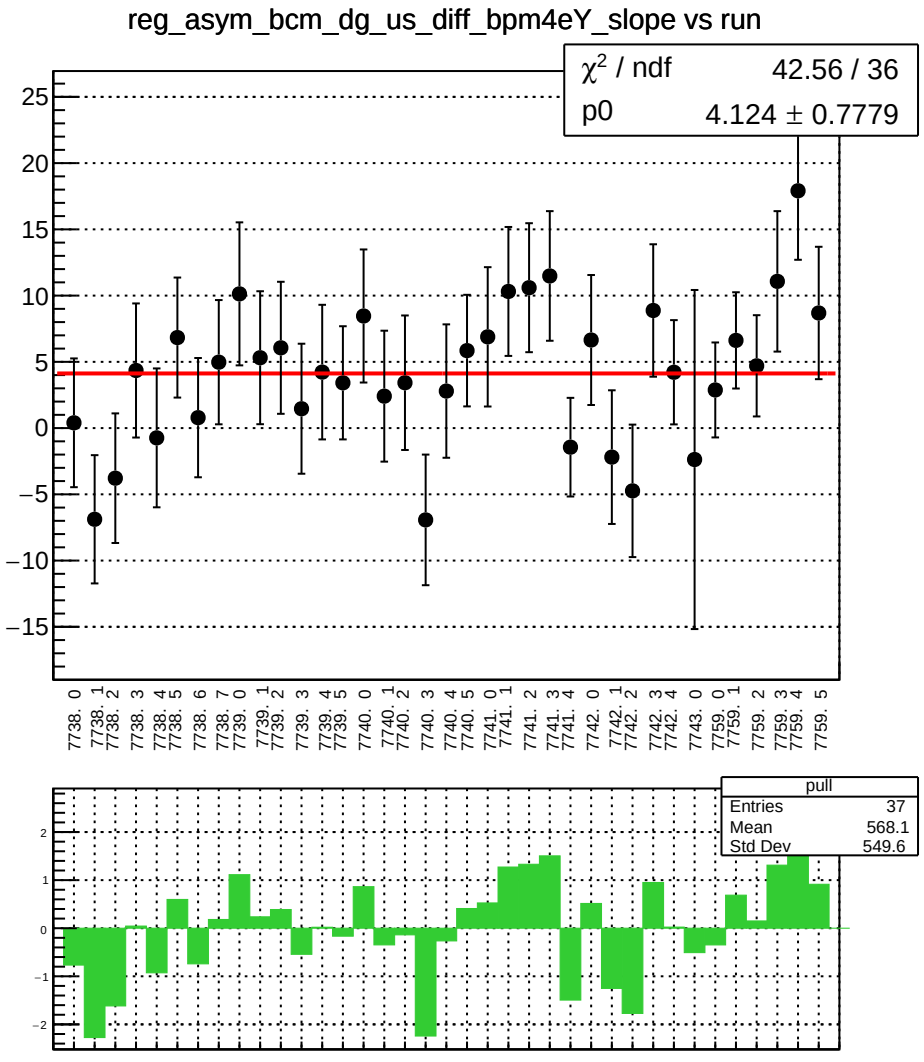

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 309.7 / 36
p0 11.8 ± 0.3741
pull
Entries 37
Mean 23.64
Std Dev 8.989

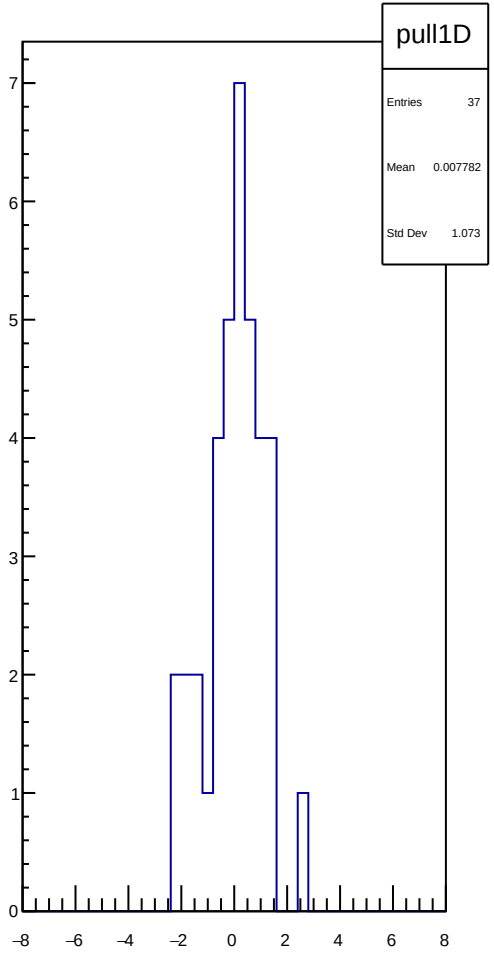

pull1D
Entries 37
Mean 1.358
Std Dev 1.166

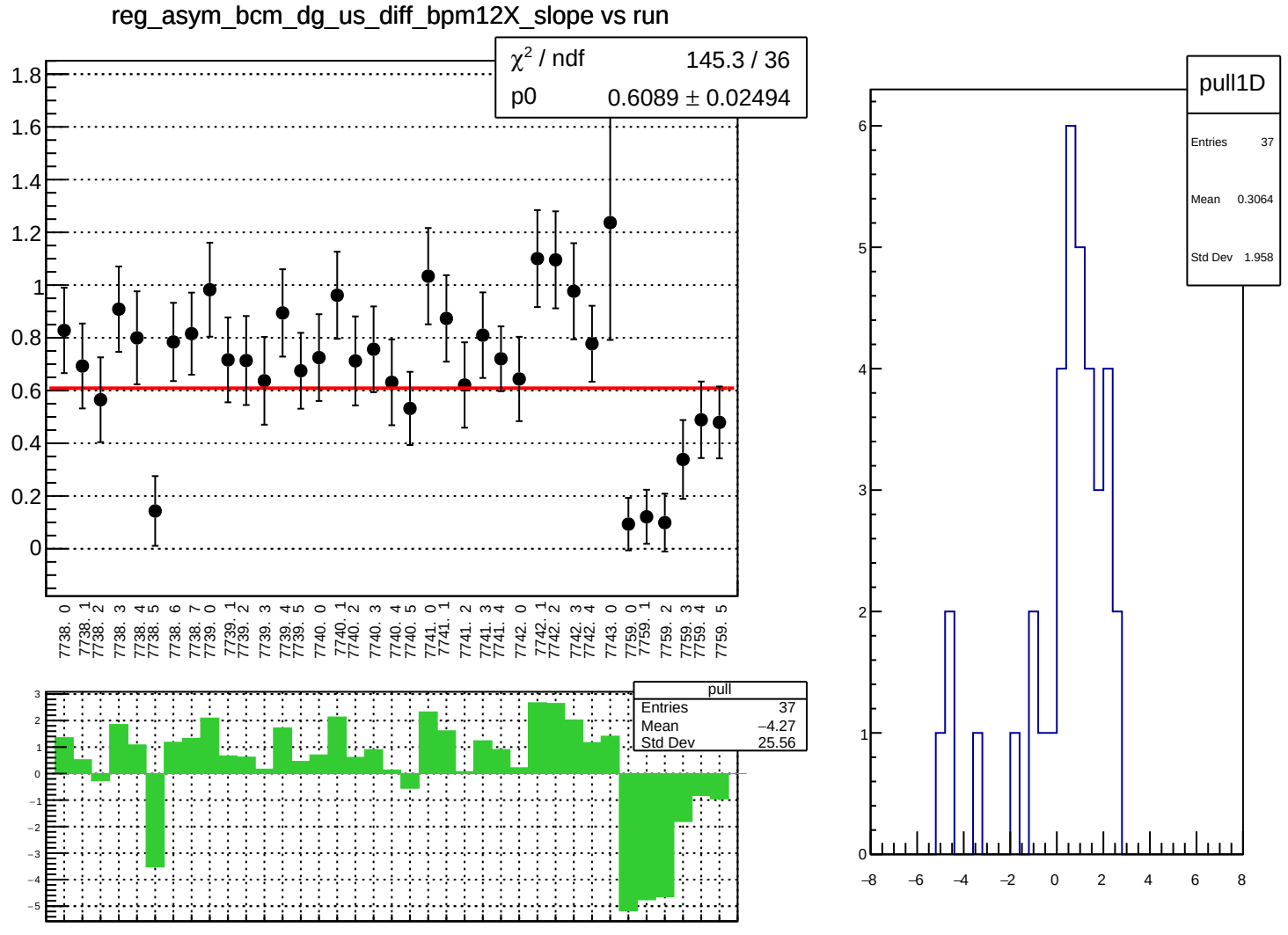

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 45.9 / 36
p0 −2.532 ± 0.4475
pull
Entries 37
Mean 86.65
Std Dev 66.99
pull1D
Entries 37
Mean −0.07227
Std Dev 1.111


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 374.9 / 36
p0 −11.25 ± 0.3667
pull
Entries 37
Mean 21.76
Std Dev 9.389


pull1D
Entries 37
Mean −1.622
Std Dev 1.175


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 42.56 / 36
p0 4.124 ± 0.7779
pull
Entries 37
Mean 568.1
Std Dev 549.6


pull1D
Entries 37
Mean 0.007782
Std Dev 1.073


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 145.3 / 36
p0 0.6089 ± 0.02494
pull
Entries 37
Mean −4.27
Std Dev 25.56
pull1D
Entries 37
Mean 0.3064
Std Dev 1.958