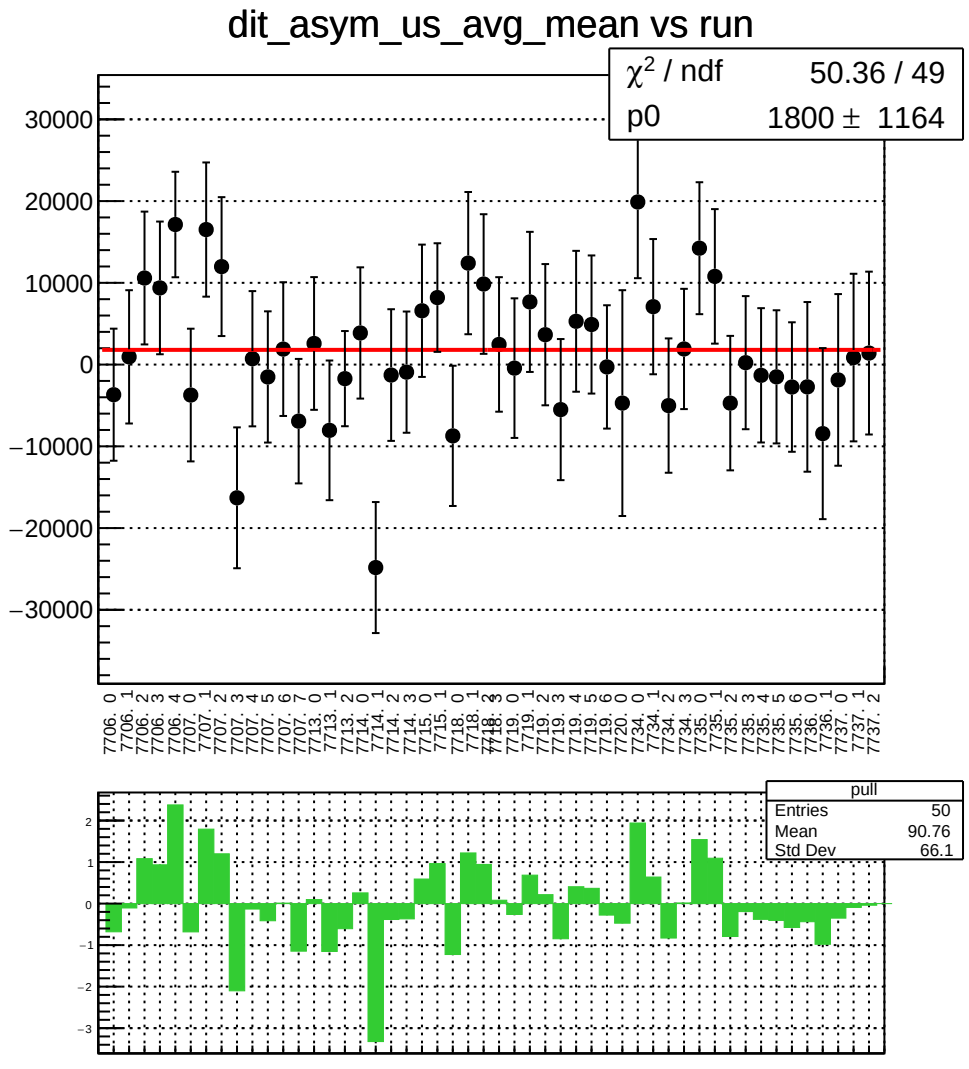
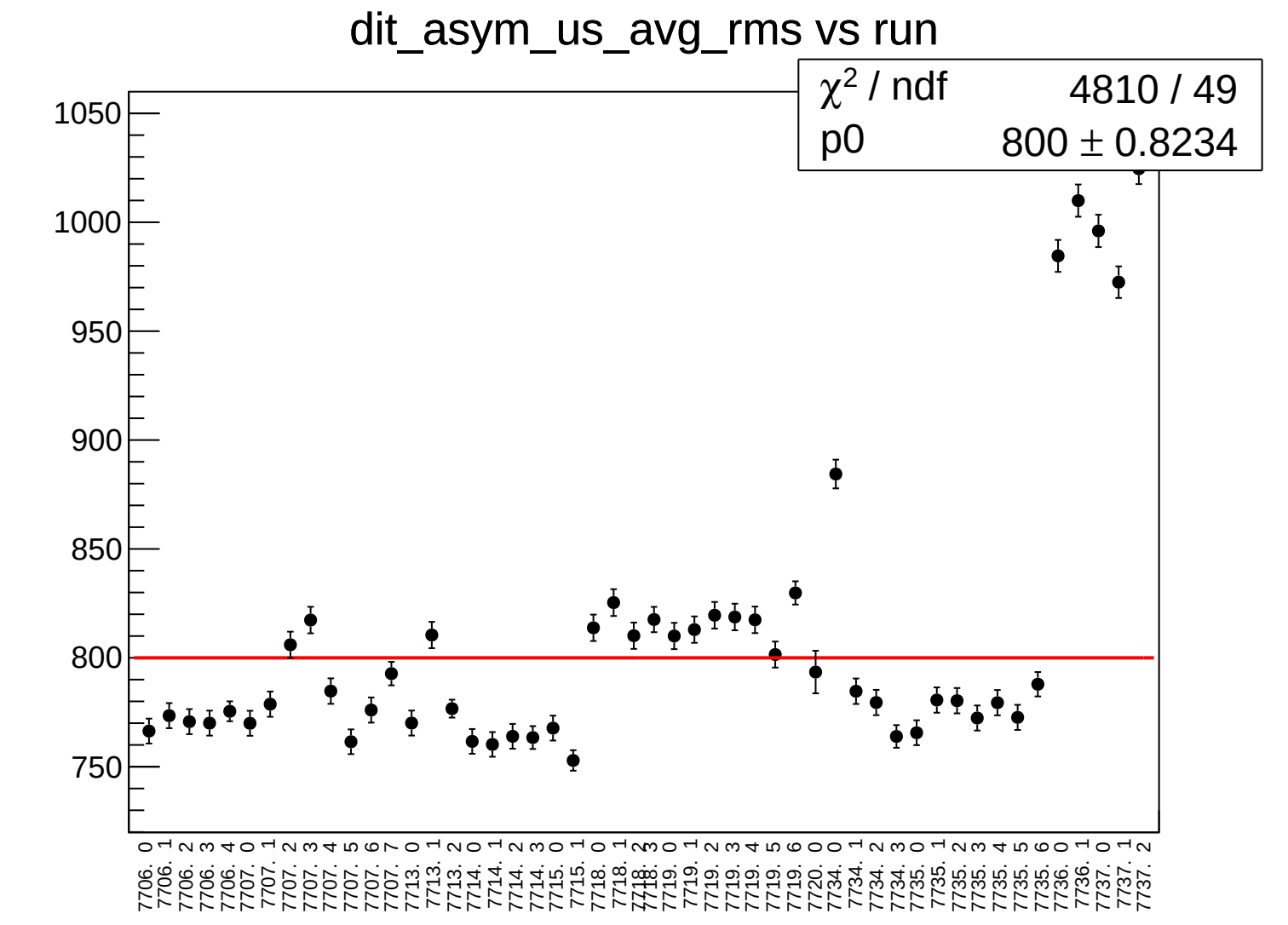
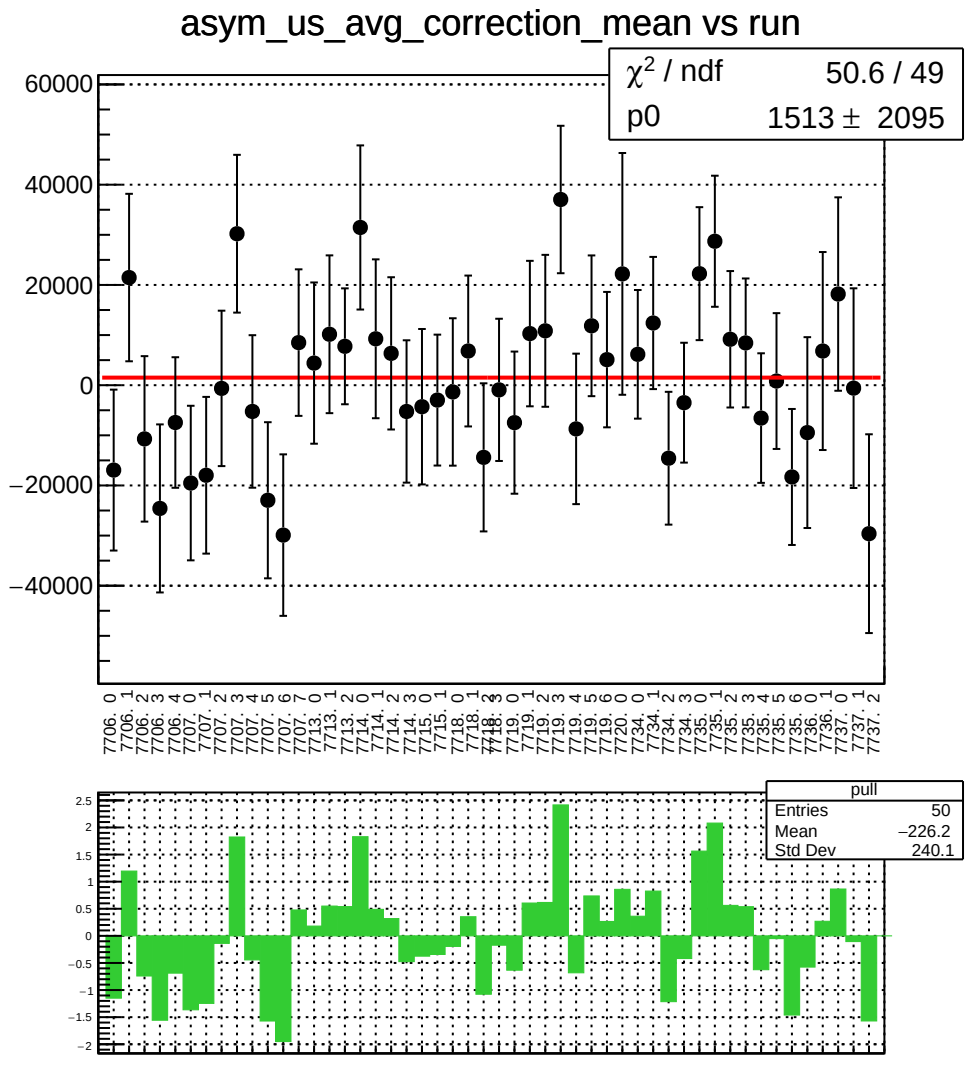

dit_asym_us_avg_mean vs run
χ² / ndf 50.36 / 49
p0 1800 ± 1164
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 90.76
Std Dev 66.1
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.01577
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_us_avg_rms vs run
χ² / ndf 4810 / 49
p0 800 ± 0.8234
1050
1000
950
900
850
800
750
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_us_avg_correction_mean vs run
χ² / ndf 50.6 / 49
p0 1513 ± 2095
60000
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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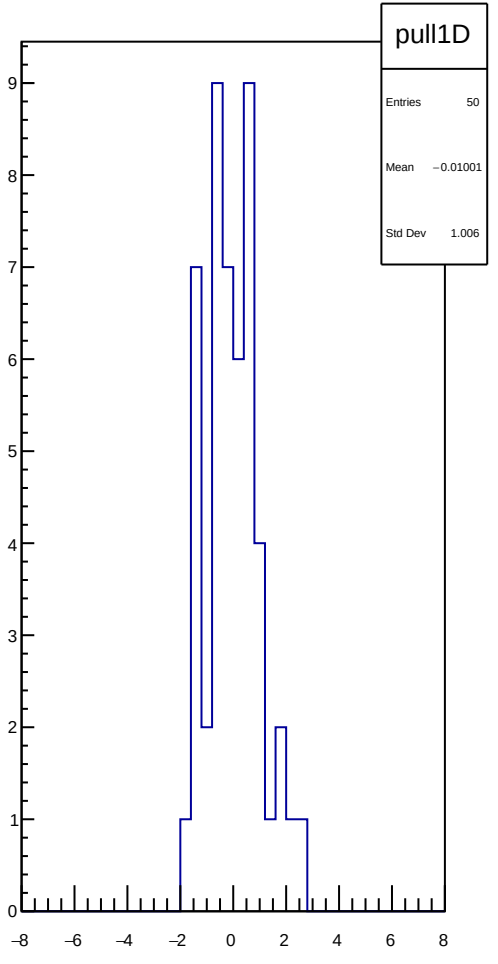
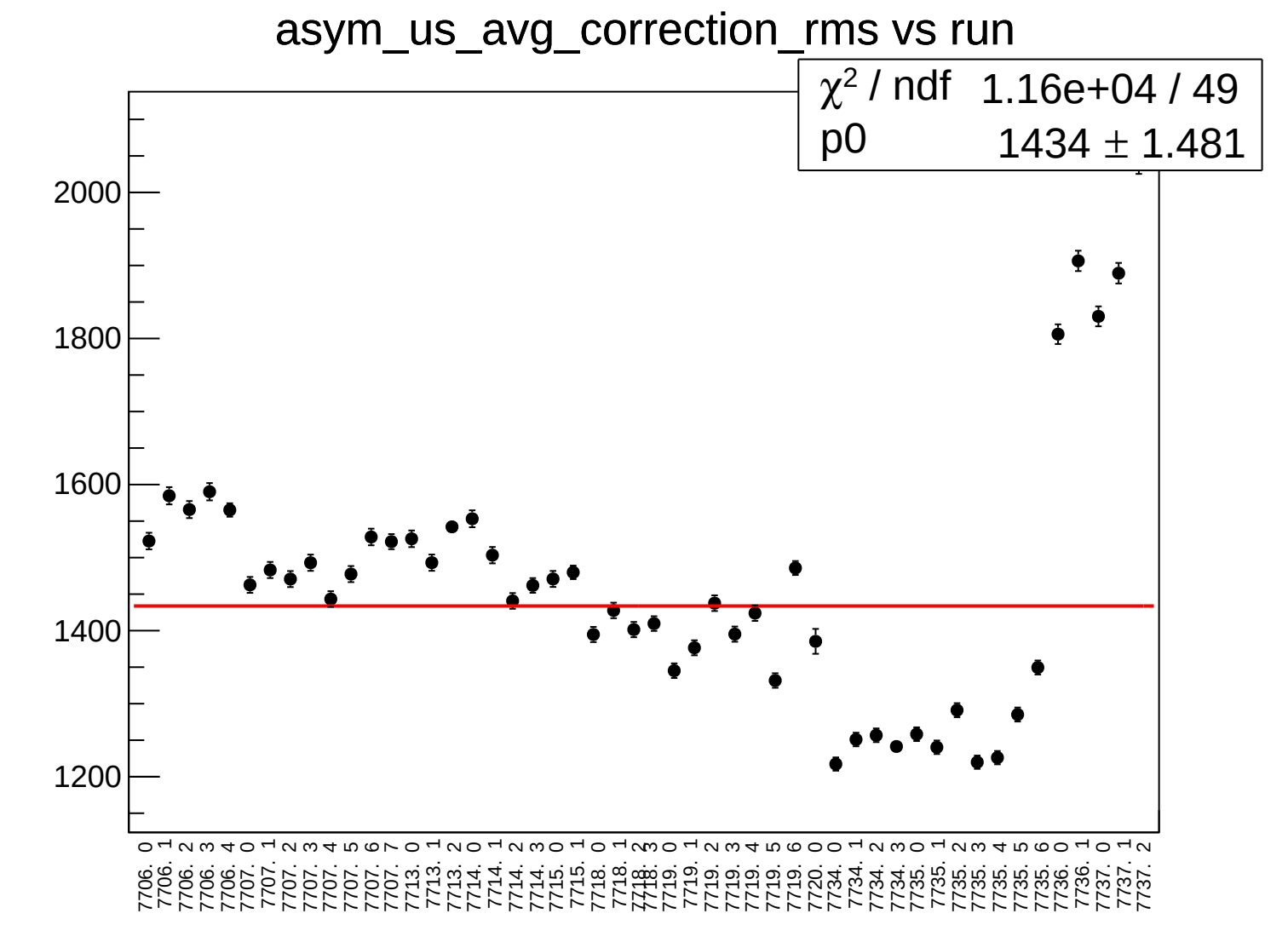
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −226.2
Std Dev 240.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01001
Std Dev 1.006
9
8
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 1.16e+04 / 49
p0 1434 ± 1.481
2000
1800
1600
1400
1200
17706. 0
17706. 1
17706. 2
17706. 3
17706. 4
17707. 0
17707. 1
17707. 2
17707. 3
17707. 4
17707. 5
17707. 6
17707. 7
17713. 0
17713. 1
17713. 2
17714. 0
17714. 1
17714. 2
17714. 3
17715. 0
17715. 1
17718. 0
17718. 1
17718. 2
17718. 3
17719. 0
17719. 1
17719. 2
17719. 3
17719. 4
17719. 5
17719. 6
17720. 0
17734. 1
17734. 2
17734. 3
17735. 0
17735. 1
17735. 2
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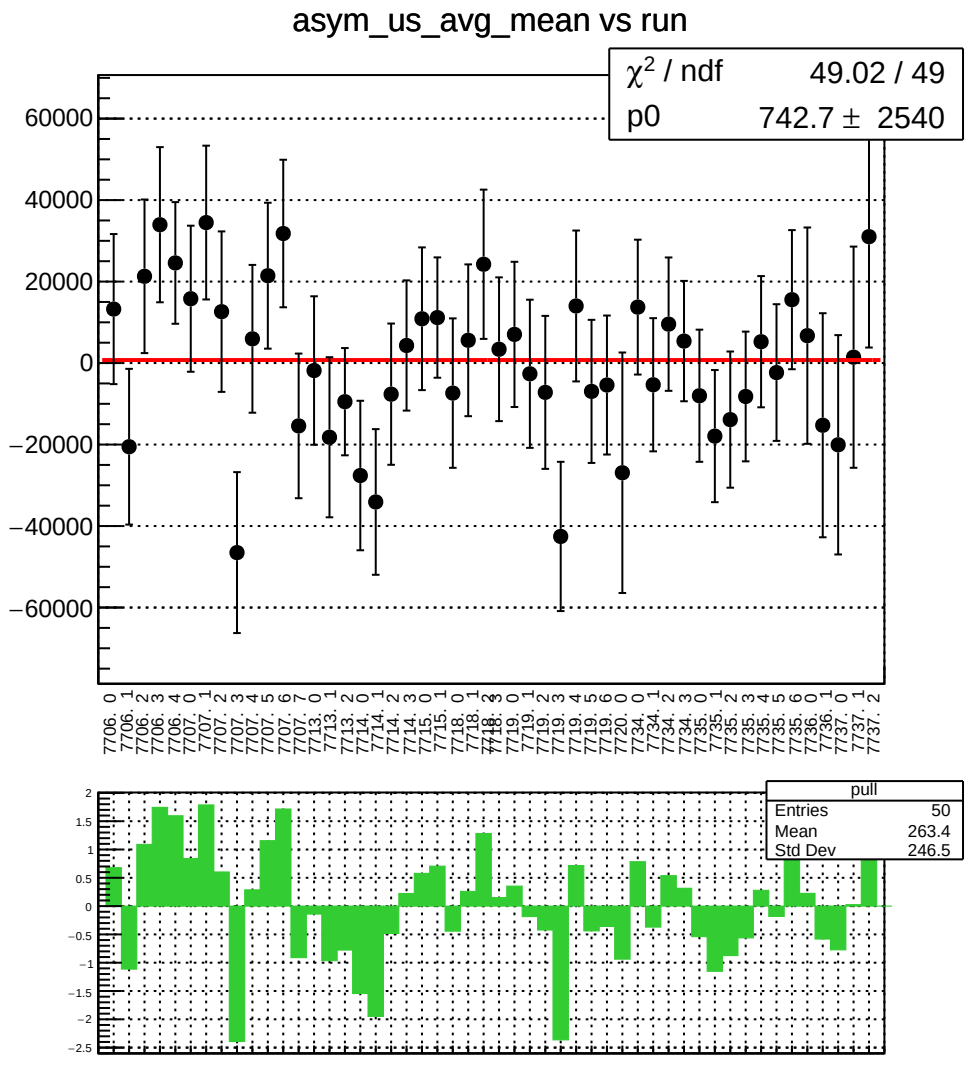
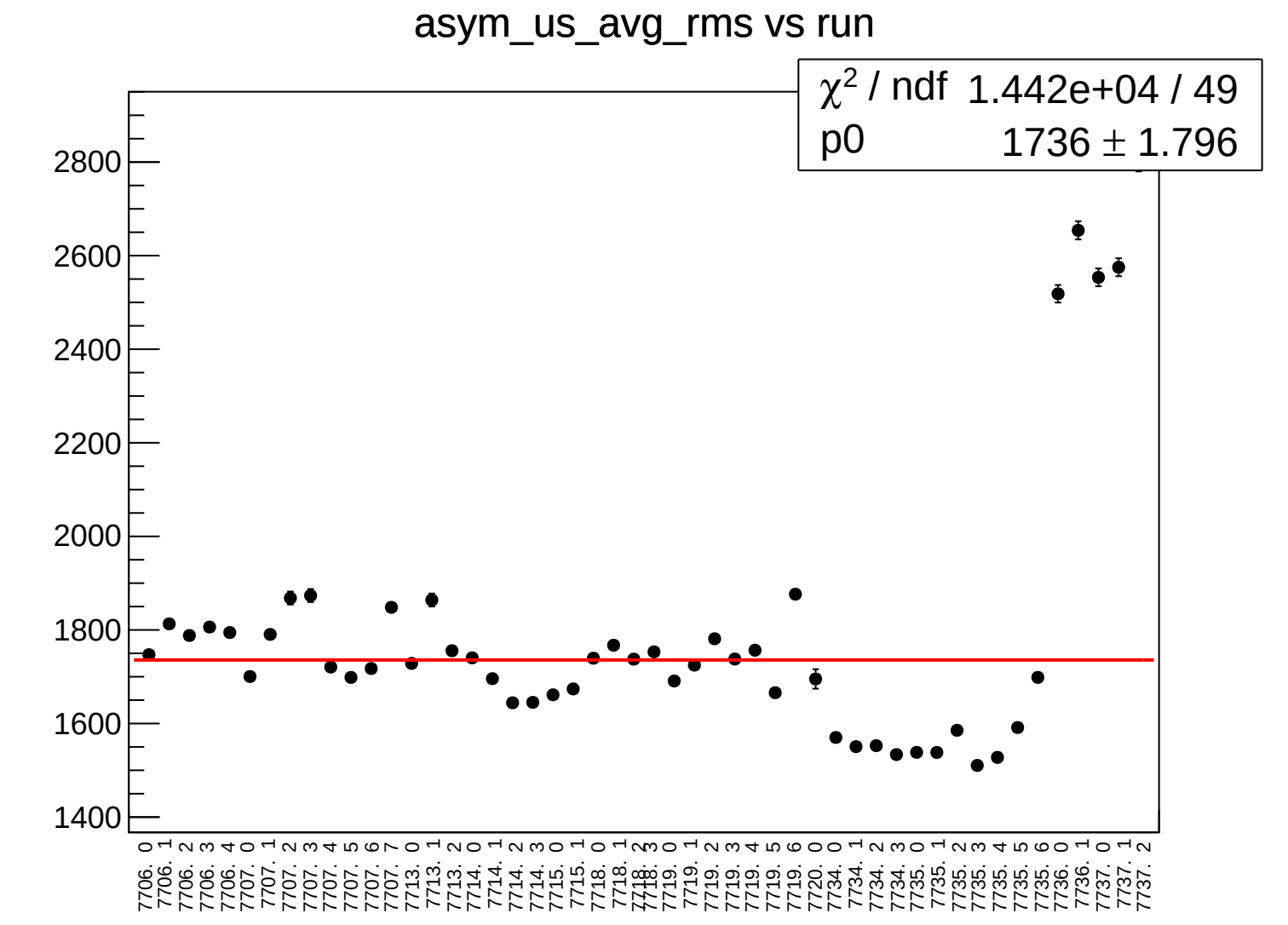
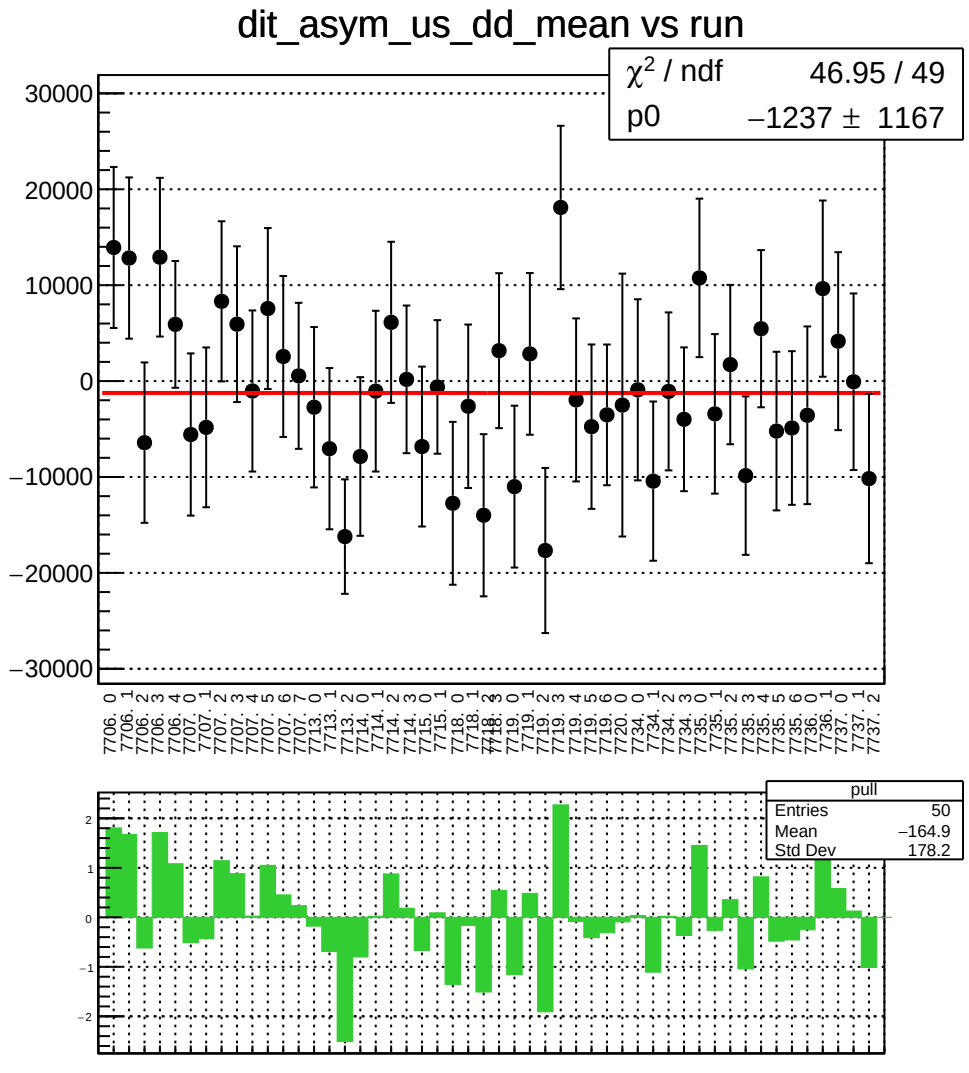
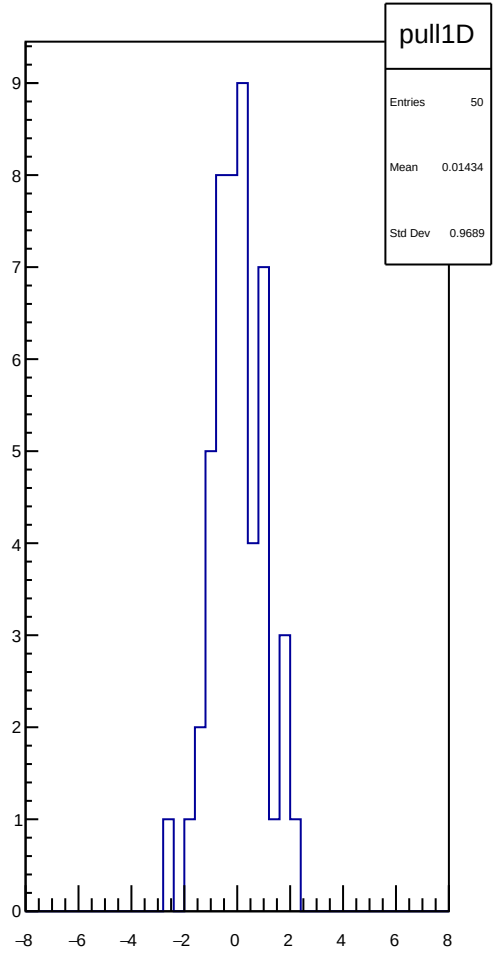
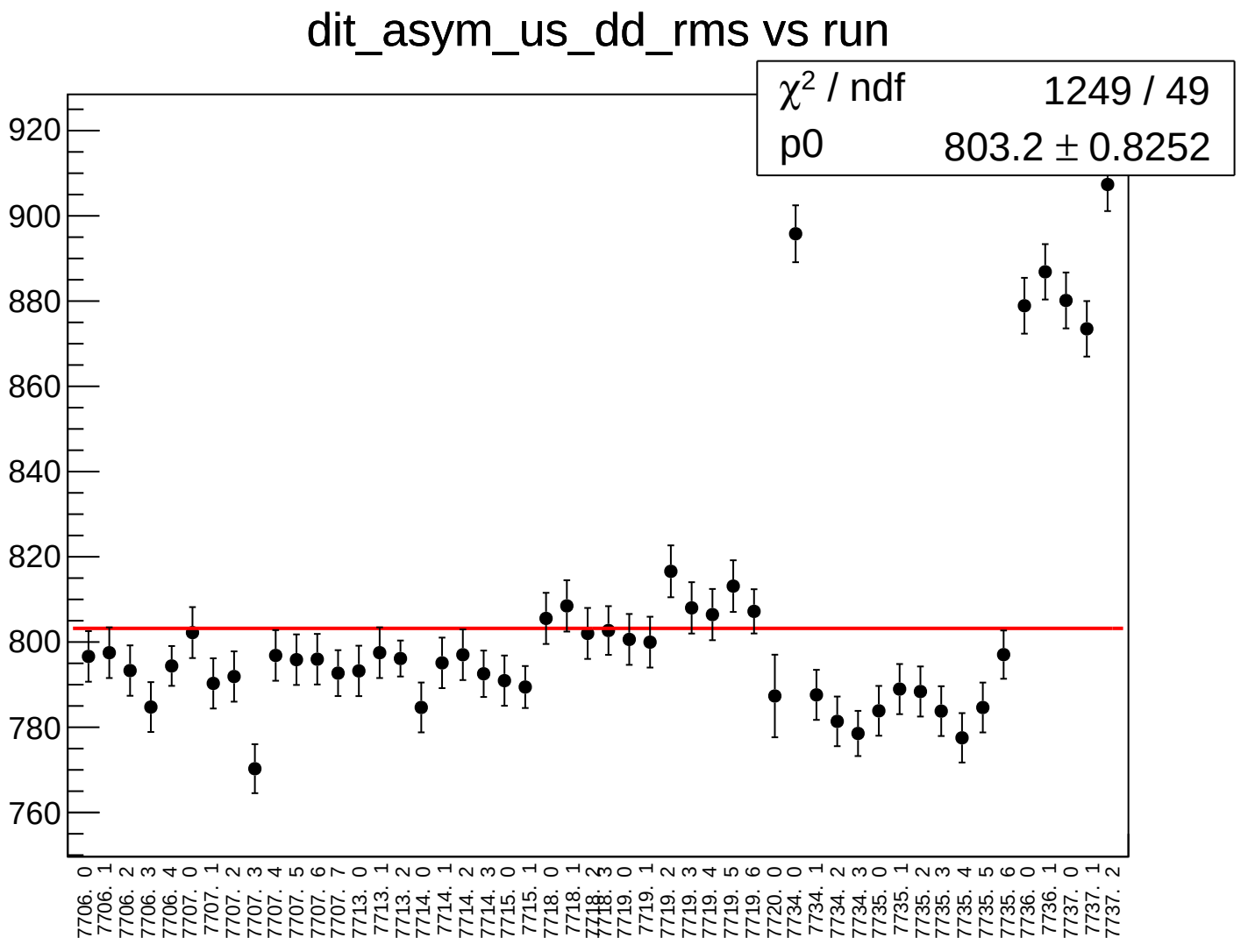
17735. 4
17735. 5
17735. 6
17736. 0
17736. 1
17737. 0
17737. 1
17737. 2

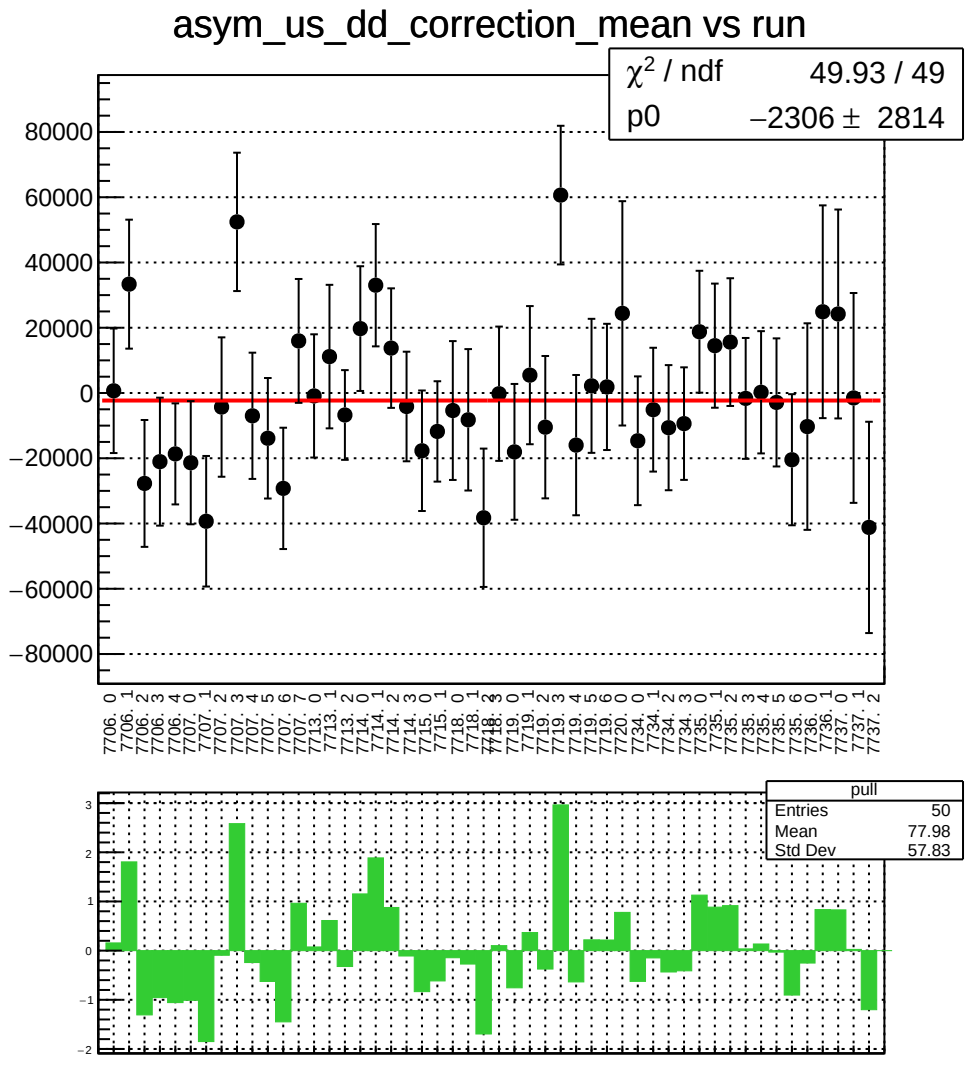

asym_us_avg_mean vs run
χ² / ndf 49.02 / 49
p0 742.7 ± 2540
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 263.4
Std Dev 246.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.01079
Std Dev 0.9901
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

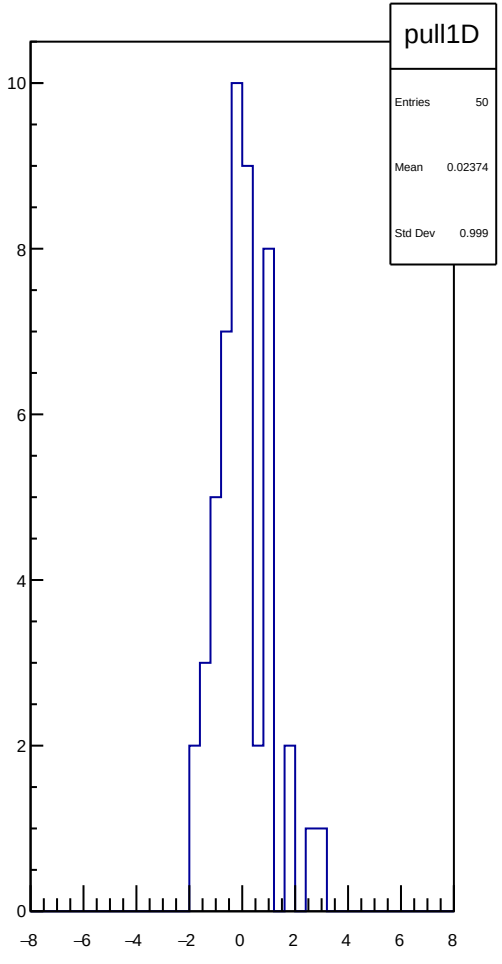

asym_us_avg_rms vs run
χ² / ndf 1.442e+04 / 49
p0 1736 ± 1.796
2800
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

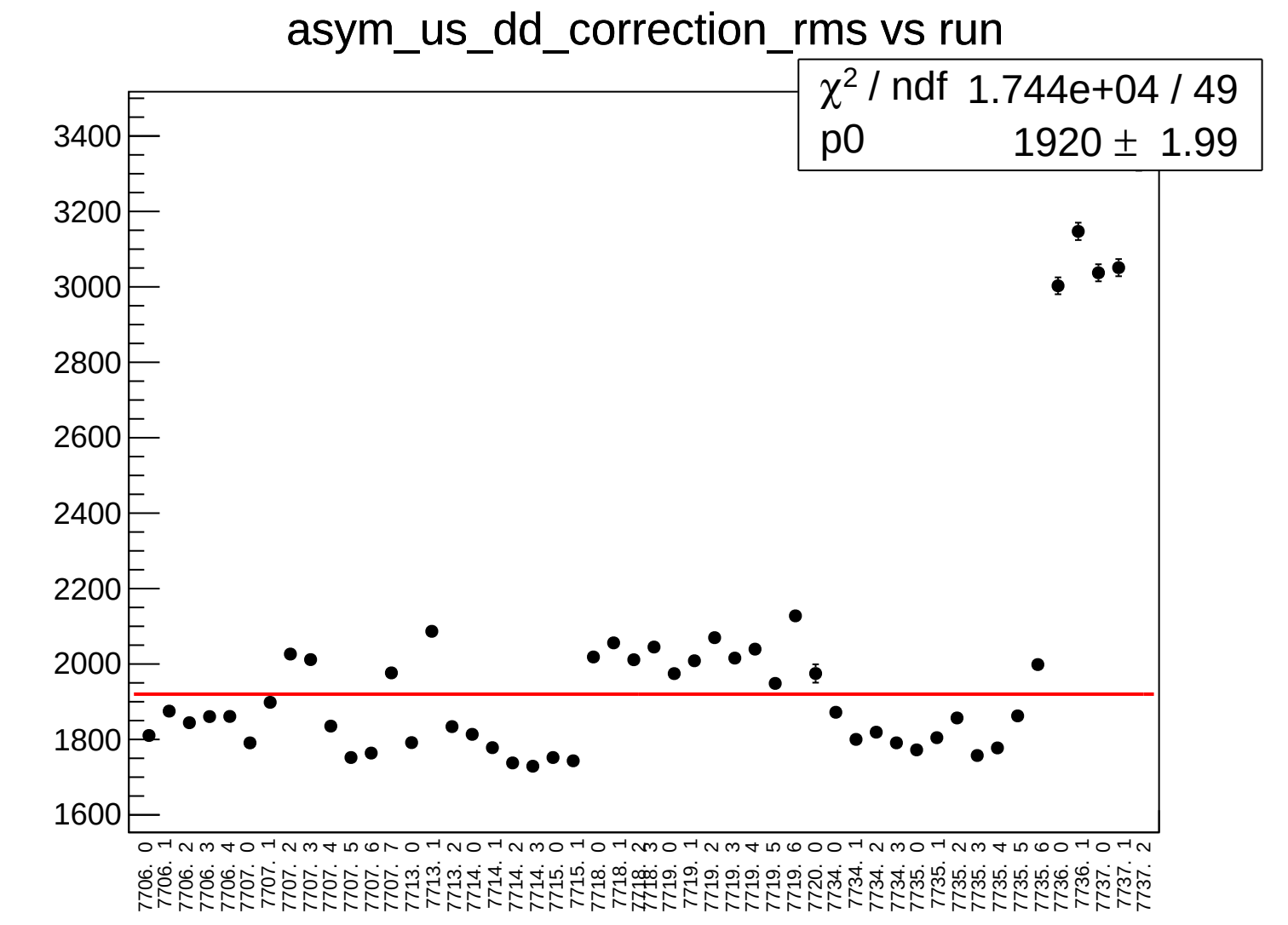

dit_asym_us_dd_mean vs run
χ² / ndf 46.95 / 49
p0 −1237 ± 1167
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −164.9
Std Dev 178.2
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.01434
Std Dev 0.9689
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 1249 / 49
p0 803.2 ± 0.8252
920
900
880
860
840
820
800
780
760
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_us_dd_correction_mean vs run
χ² / ndf 49.93 / 49
p0 −2306 ± 2814
pull
Entries 50
Mean 77.98
Std Dev 57.83


pull1D
Entries 50
Mean 0.02374
Std Dev 0.999


asym_us_dd_correction_rms vs run
χ² / ndf 1.744e+04 / 49
p0 1920 ± 1.99
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7715. 1
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7719. 1
7719. 2
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7720. 0
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7734. 3
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7735. 6
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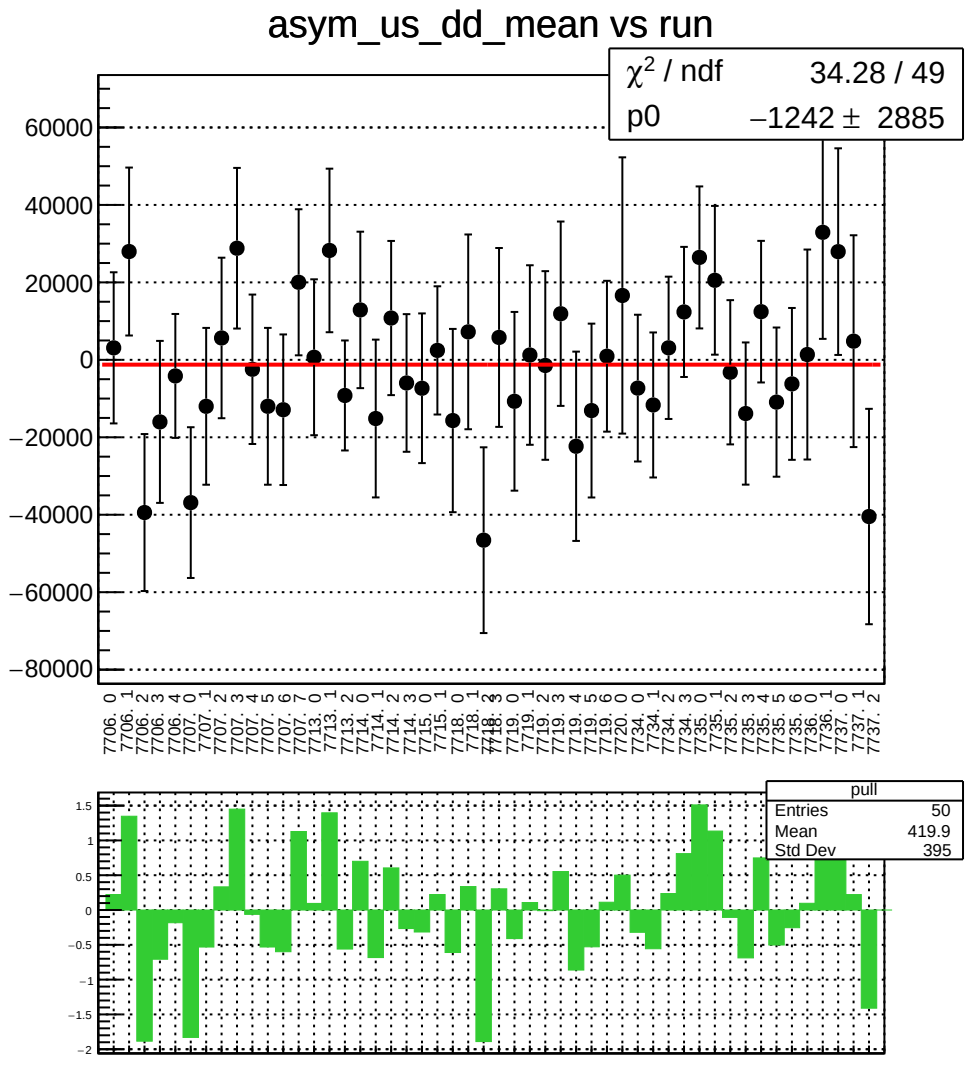
7736. 1
7737. 0
7737. 1
7737. 2


asym_us_dd_mean vs run
χ² / ndf 34.28 / 49
p0 −1242 ± 2885
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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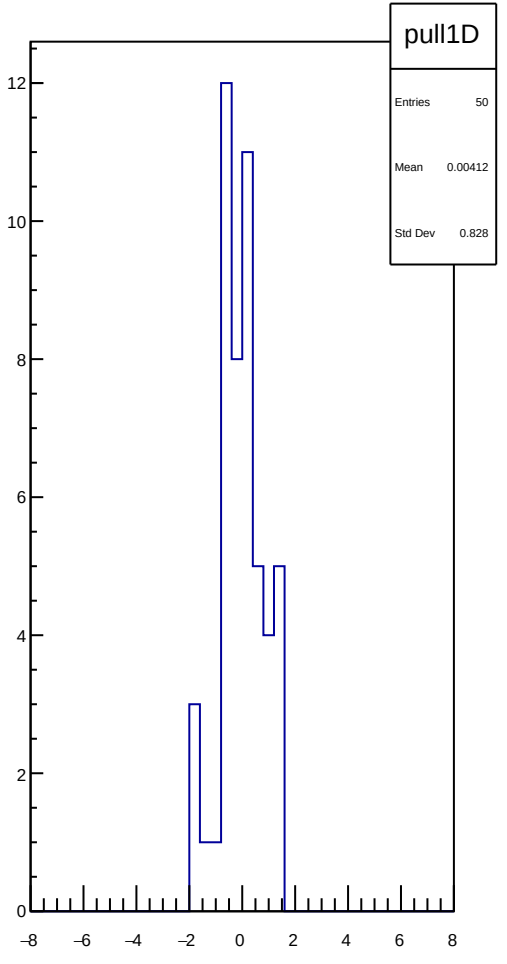
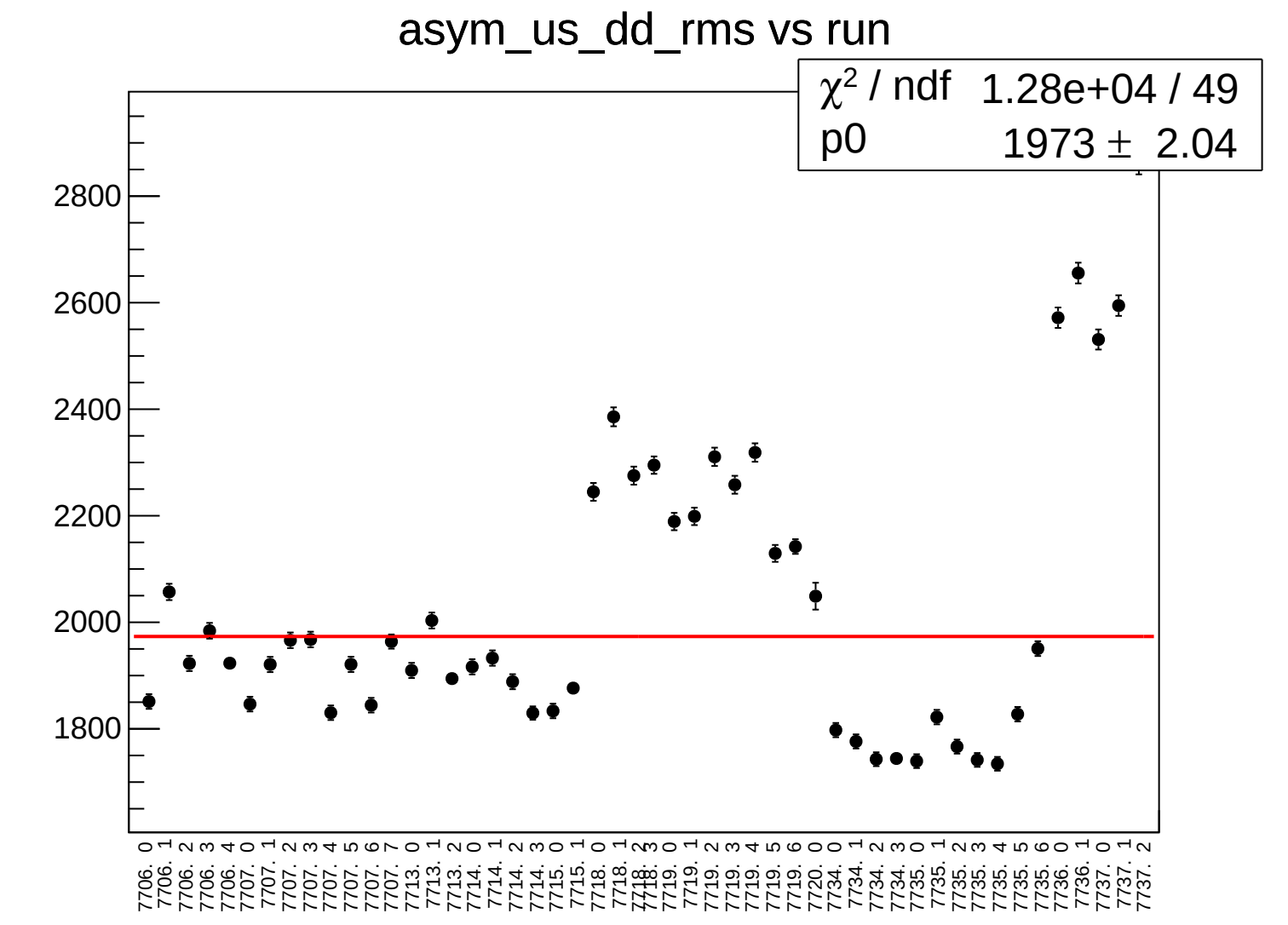
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 419.9
Std Dev 395
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.00412
Std Dev 0.828
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 1.28e+04 / 49
p0 1973 ± 2.04
2800
2600
2400
2200
2000
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
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7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
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7715. 0
7715. 1
7718. 0
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7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
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7734. 1
7734. 2
7734. 3
7735. 0
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7735. 5
7735. 6
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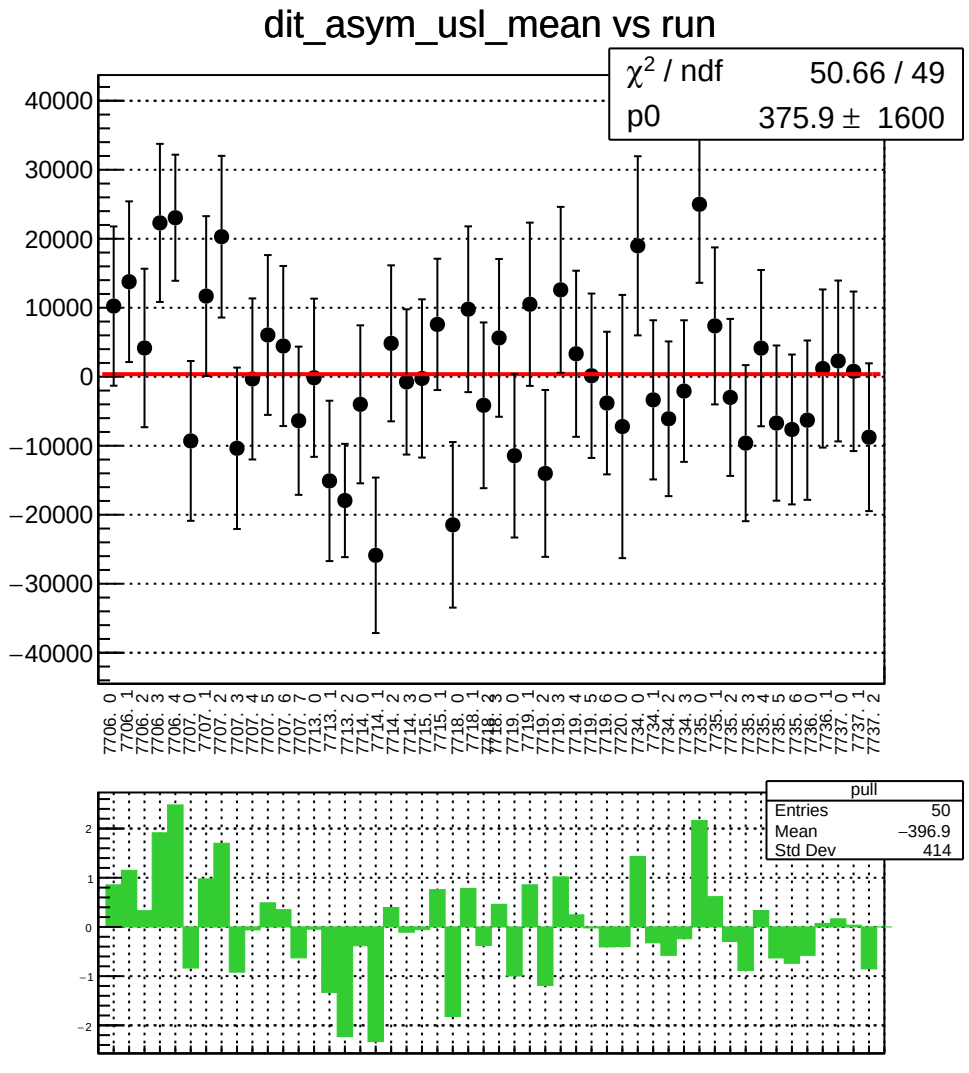
7737. 1
7737. 2


dit_asym_usl_mean vs run
χ² / ndf 50.66 / 49
p0 375.9 ± 1600
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 4
7707. 5
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7713. 0
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7718. 1
7718. 2
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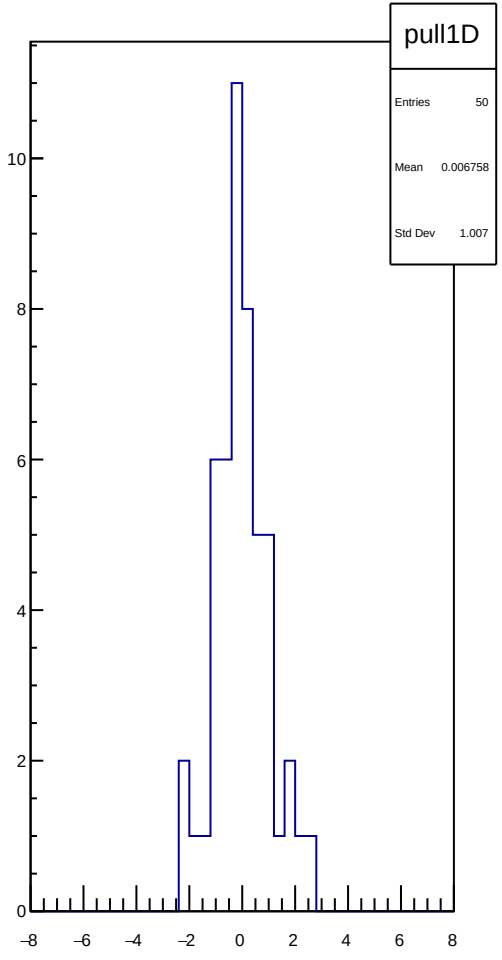
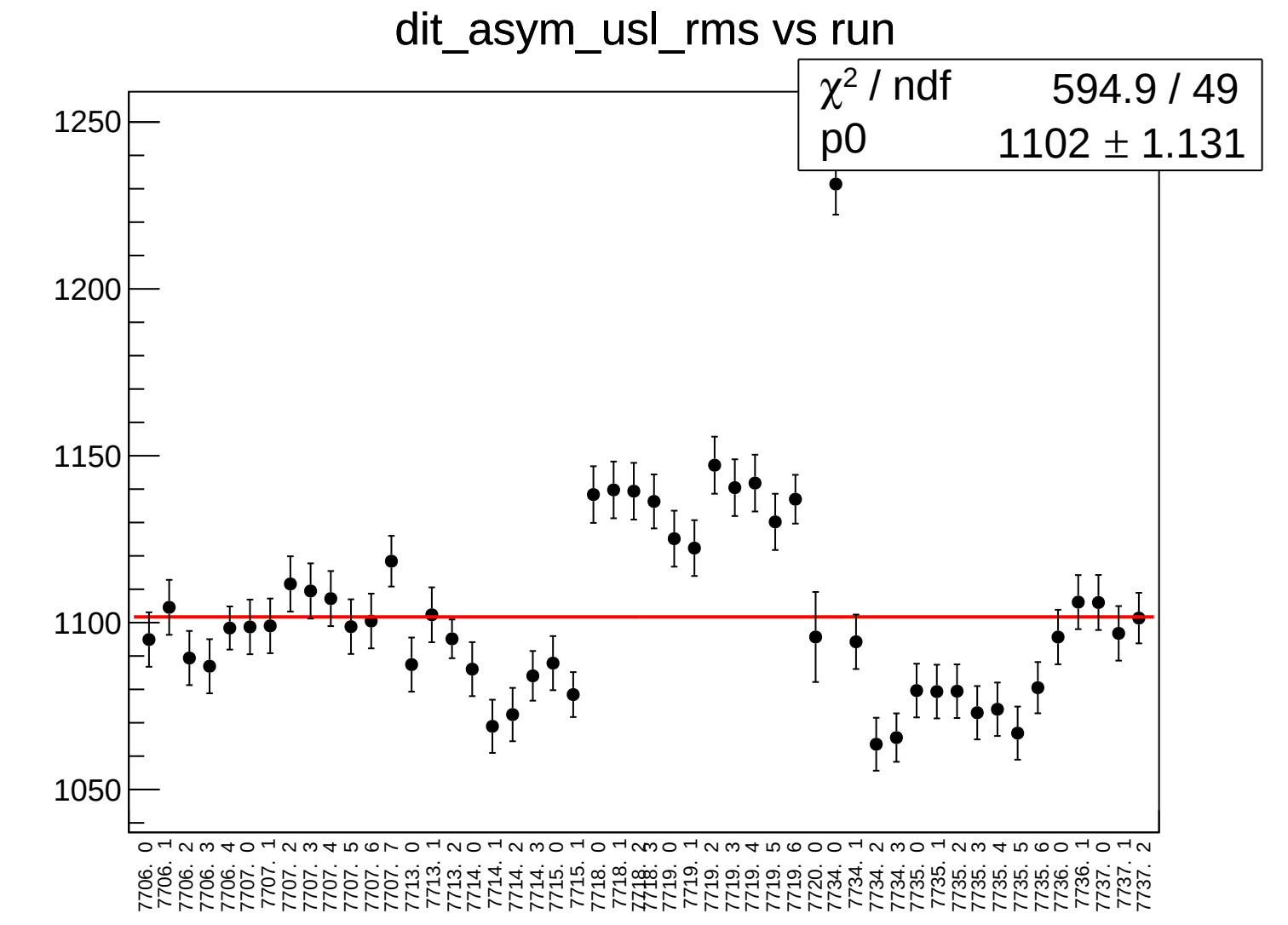
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −396.9
Std Dev 414
2
1
0
−1
−2


pull1D
Entries 50
Mean 0.006758
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_usl_rms vs run
χ² / ndf 594.9 / 49
p0 1102 ± 1.131
1250
1200
1150
1100
1050
17706. 0
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17706. 2
17706. 3
17706. 4
17707. 0
17707. 1
17707. 2
17707. 3
17707. 4
17707. 5
17707. 6
17707. 7
17713. 0
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17713. 2
17714. 0
17714. 1
17714. 2
17714. 3
17715. 0
17715. 1
17718. 0
17718. 1
17718. 2
17718. 3
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17719. 1
17719. 2
17719. 3
17719. 4
17719. 5
17719. 6
17720. 0
17734. 0
17734. 1
17734. 2
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17735. 0
17735. 1
17735. 2
17735. 3
17735. 4
17735. 5
17735. 6
17736. 0
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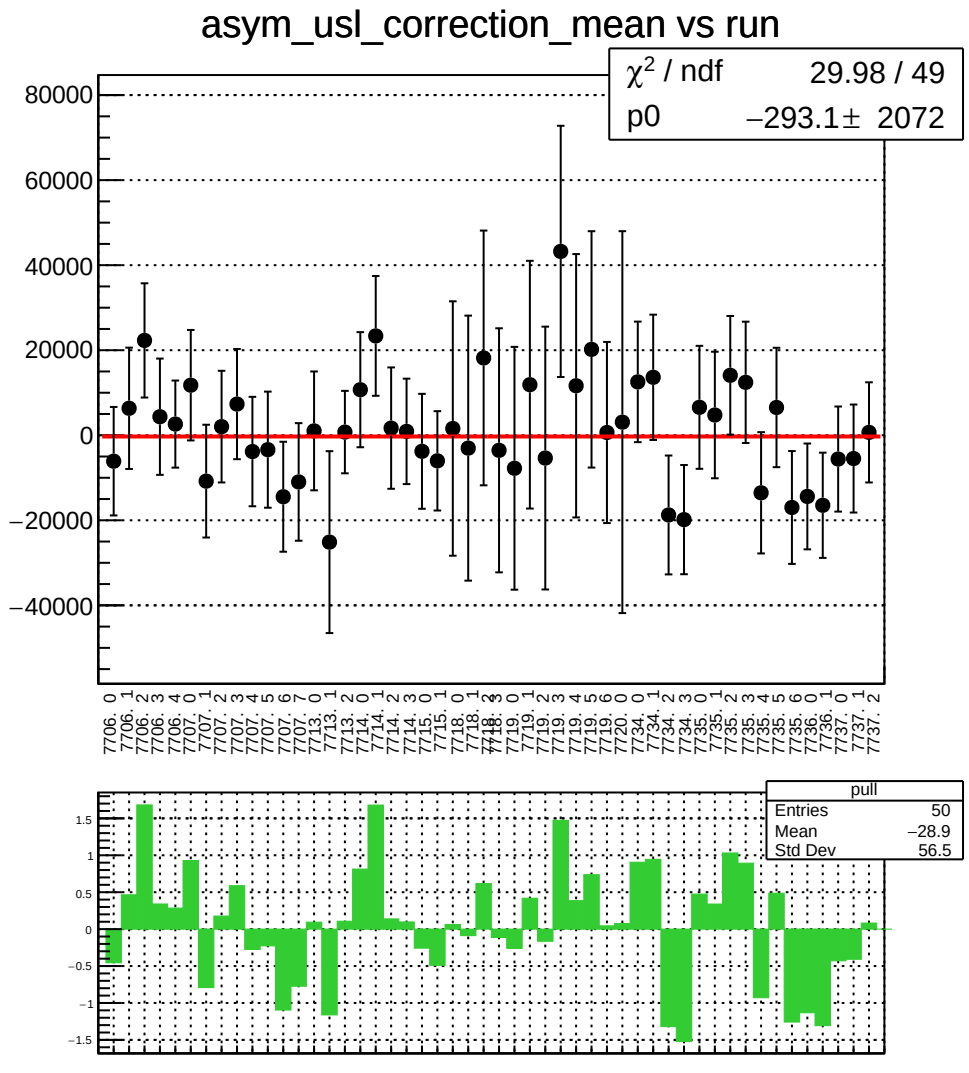
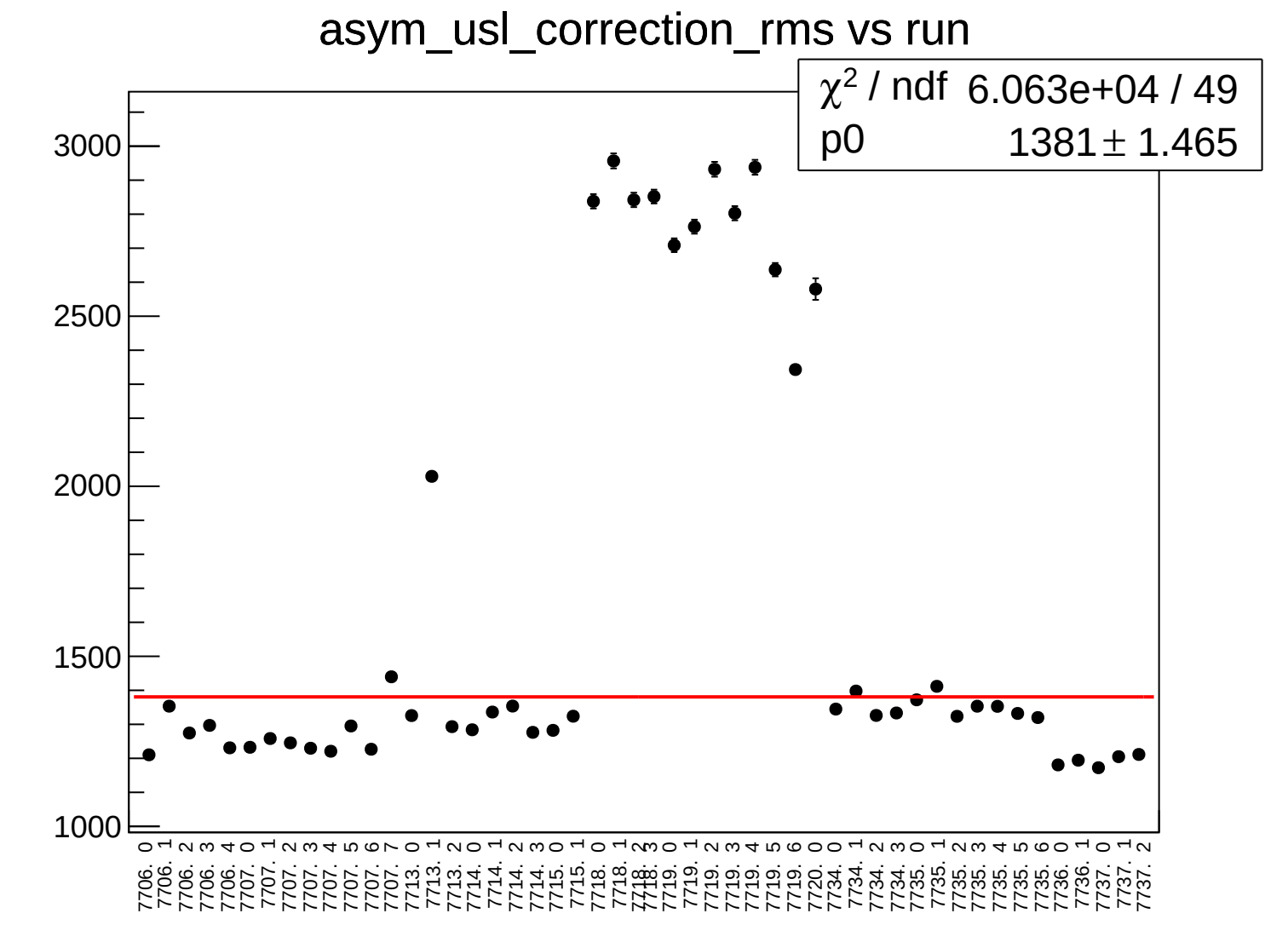
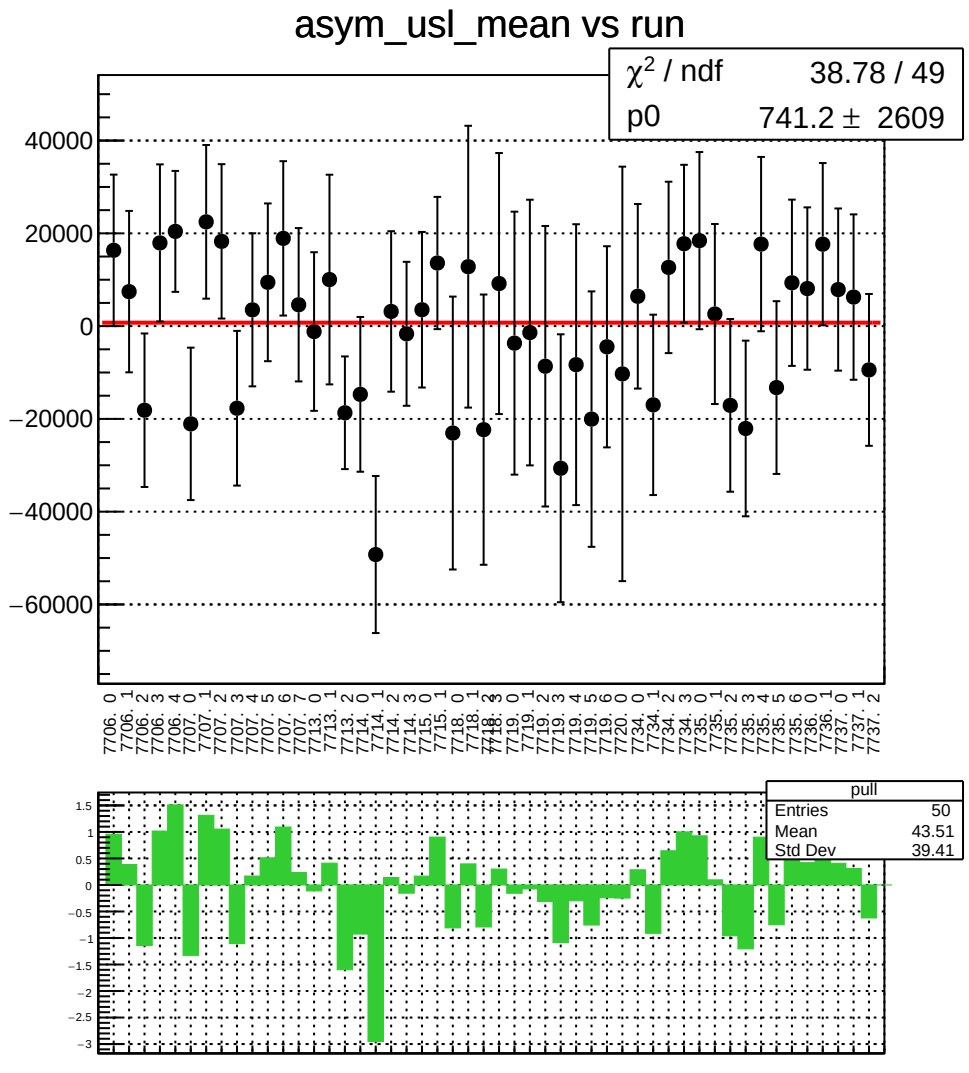
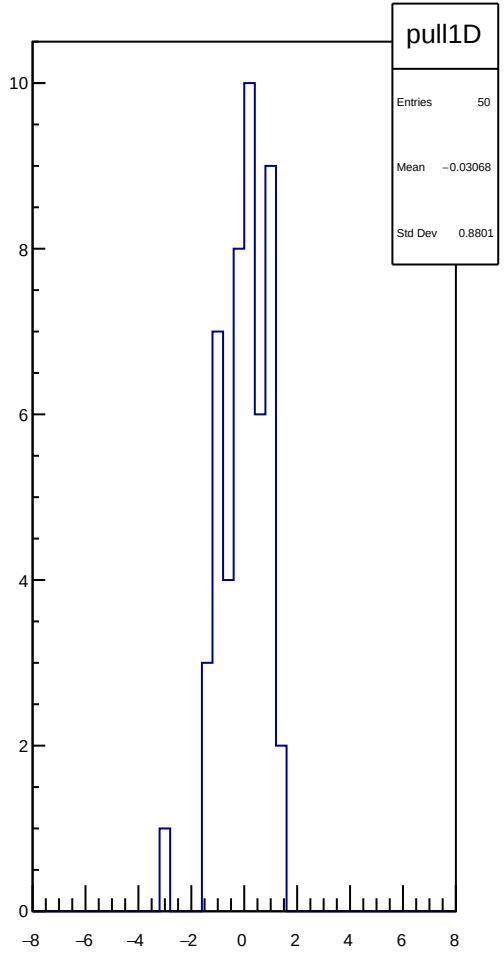
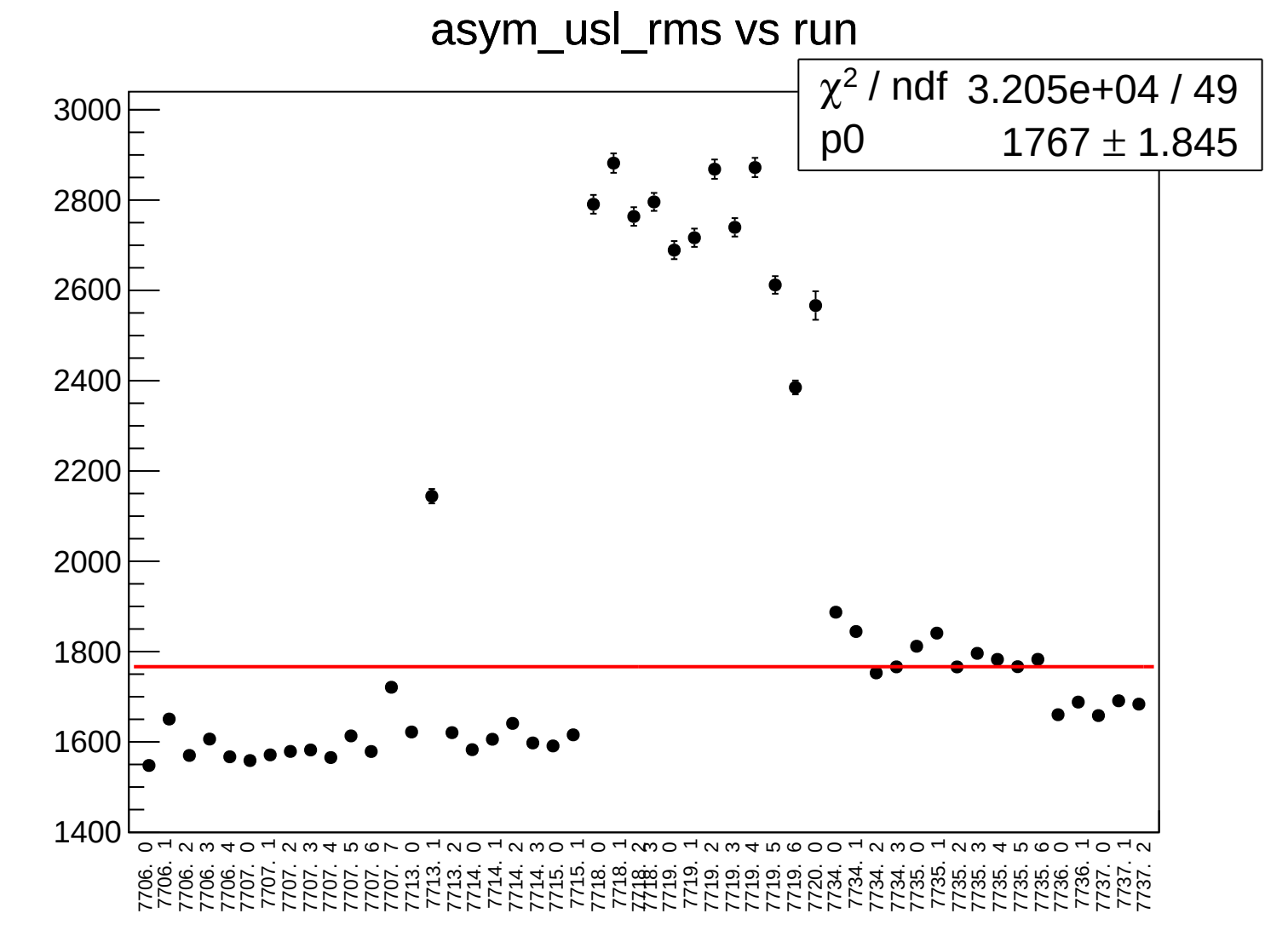
17737. 0
17737. 1
17737. 2


asym_usl_correction_mean vs run
χ² / ndf 29.98 / 49
p0 −293.1± 2072
80000
60000
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −28.9
Std Dev 56.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.03814
Std Dev 0.7734
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_correction_rms vs run
χ² / ndf 6.063e+04 / 49
p0 1381 ± 1.465
3000
2500
2000
1500
1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_usl_mean vs run
χ^2 / ndf 38.78 / 49
p0 741.2 ± 2609
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 43.51
Std Dev 39.41
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 50
Mean −0.03068
Std Dev 0.8801
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 3.205e+04 / 49
p0 1767 ± 1.845
3000
2800
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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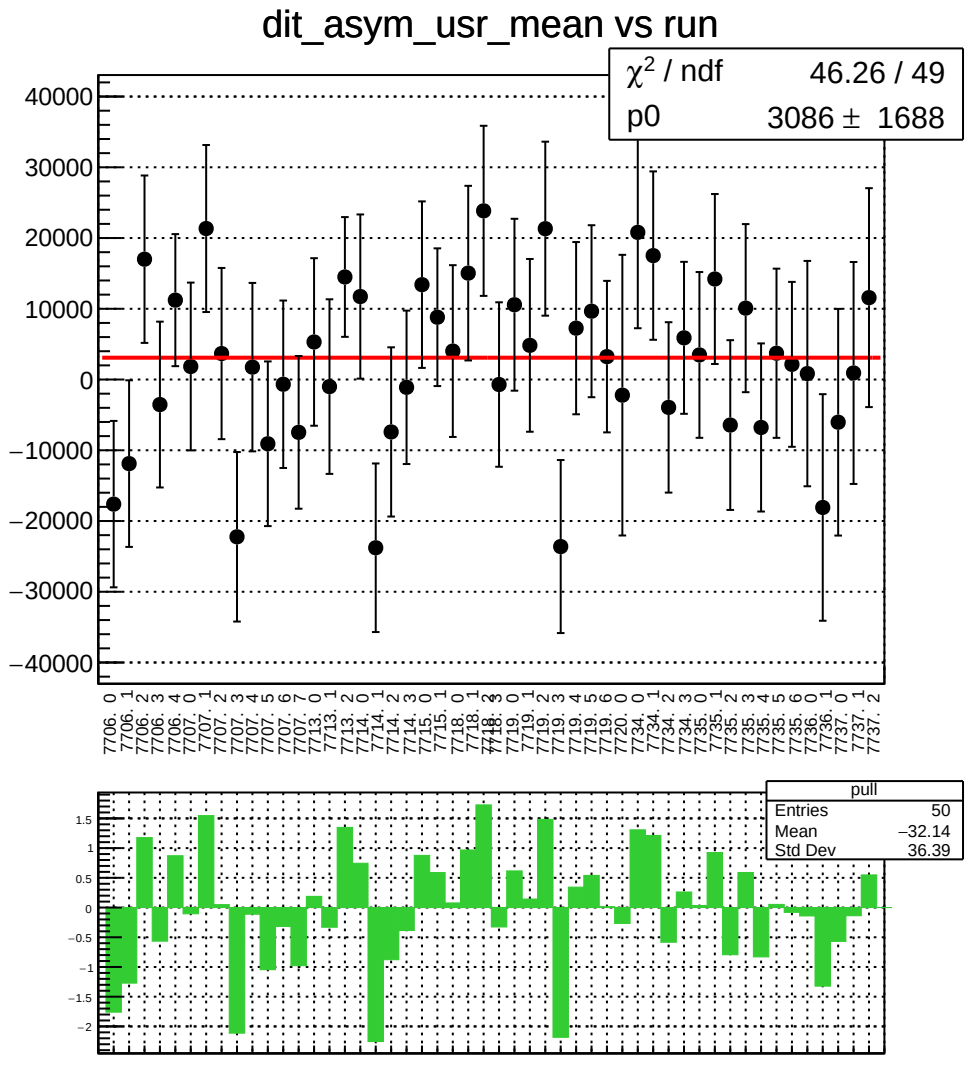
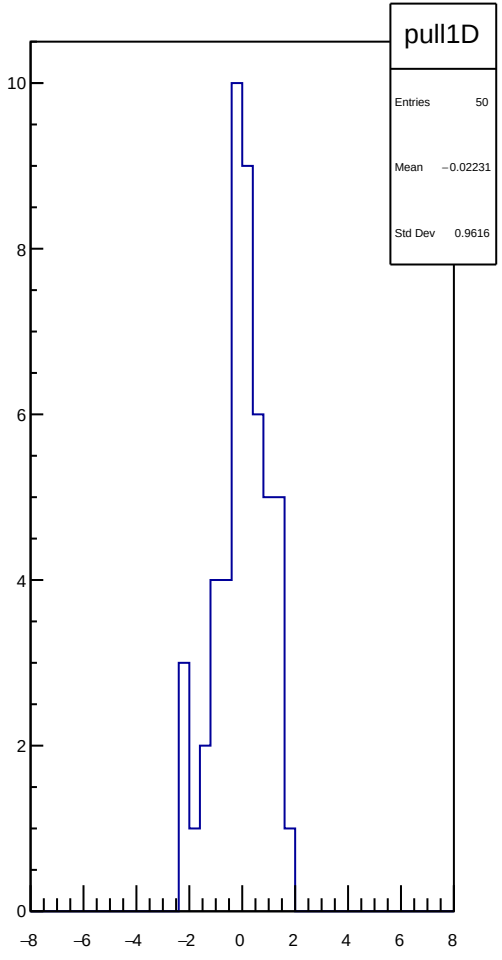
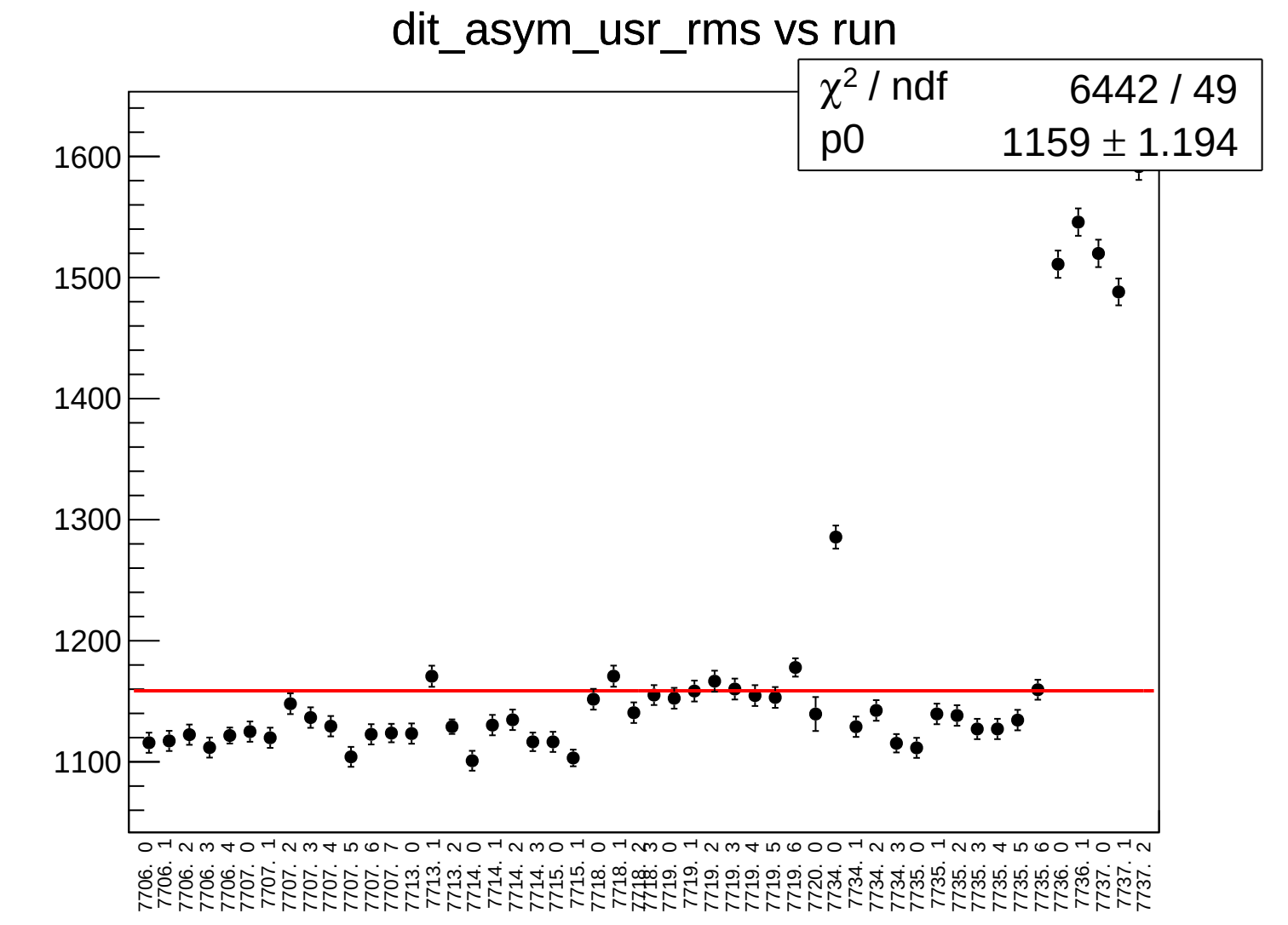
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_usr_mean vs run
χ² / ndf 46.26 / 49
p0 3086 ± 1688
pull
Entries 50
Mean −32.14
Std Dev 36.39


pull1D
Entries 50
Mean −0.02231
Std Dev 0.9616


dit_asym_usr_rms vs run
χ² / ndf 6442 / 49
p0 1159 ± 1.194
1600
1500
1400
1300
1200
1100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
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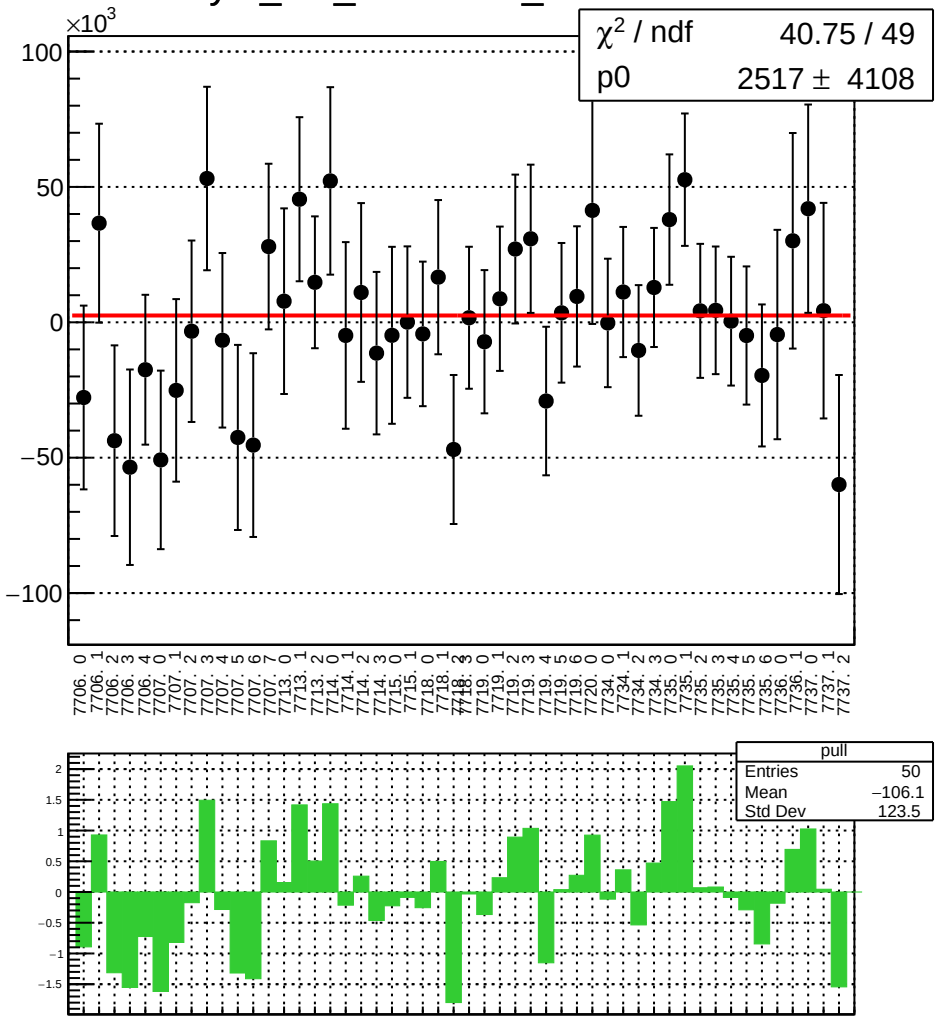
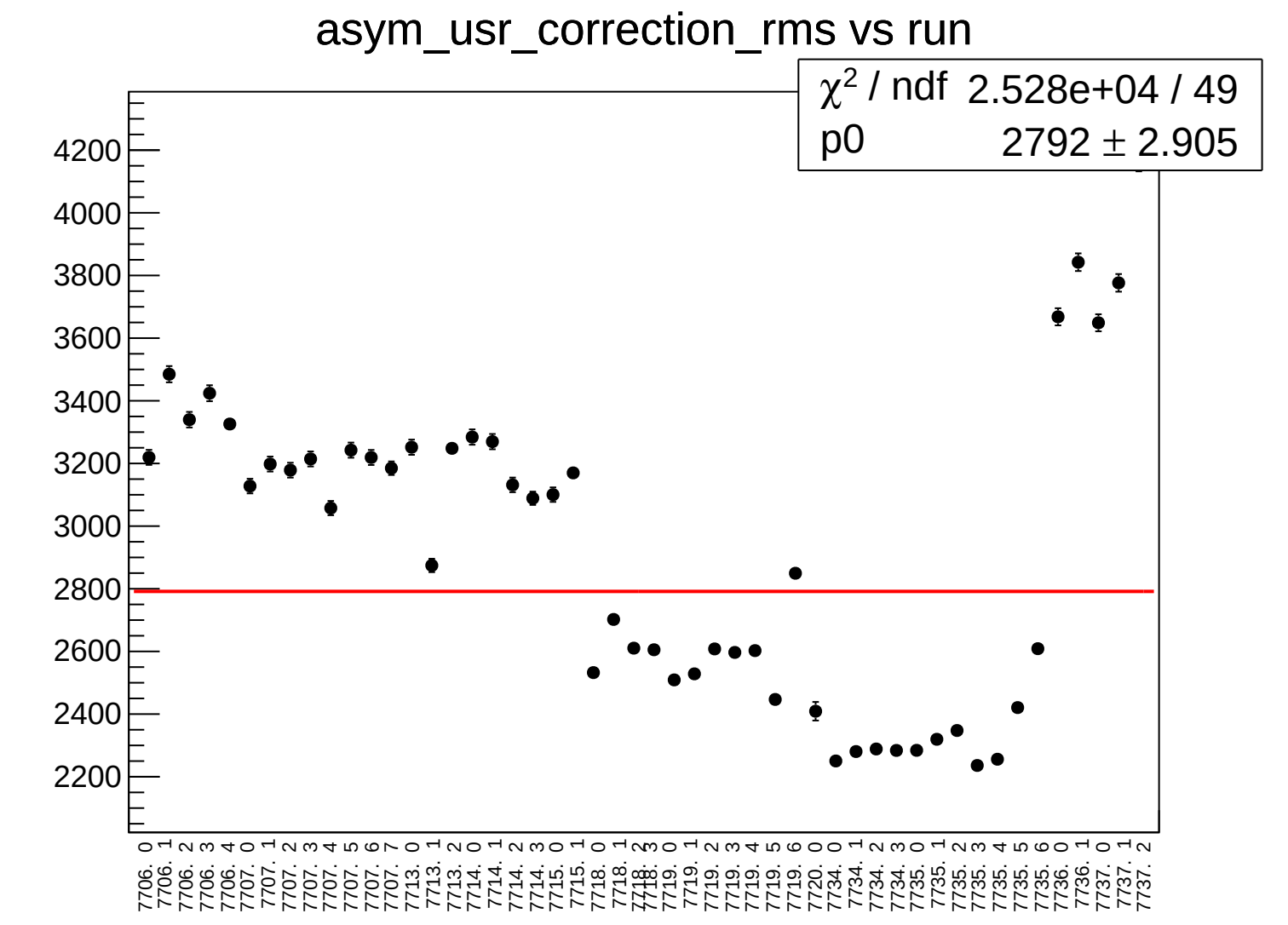
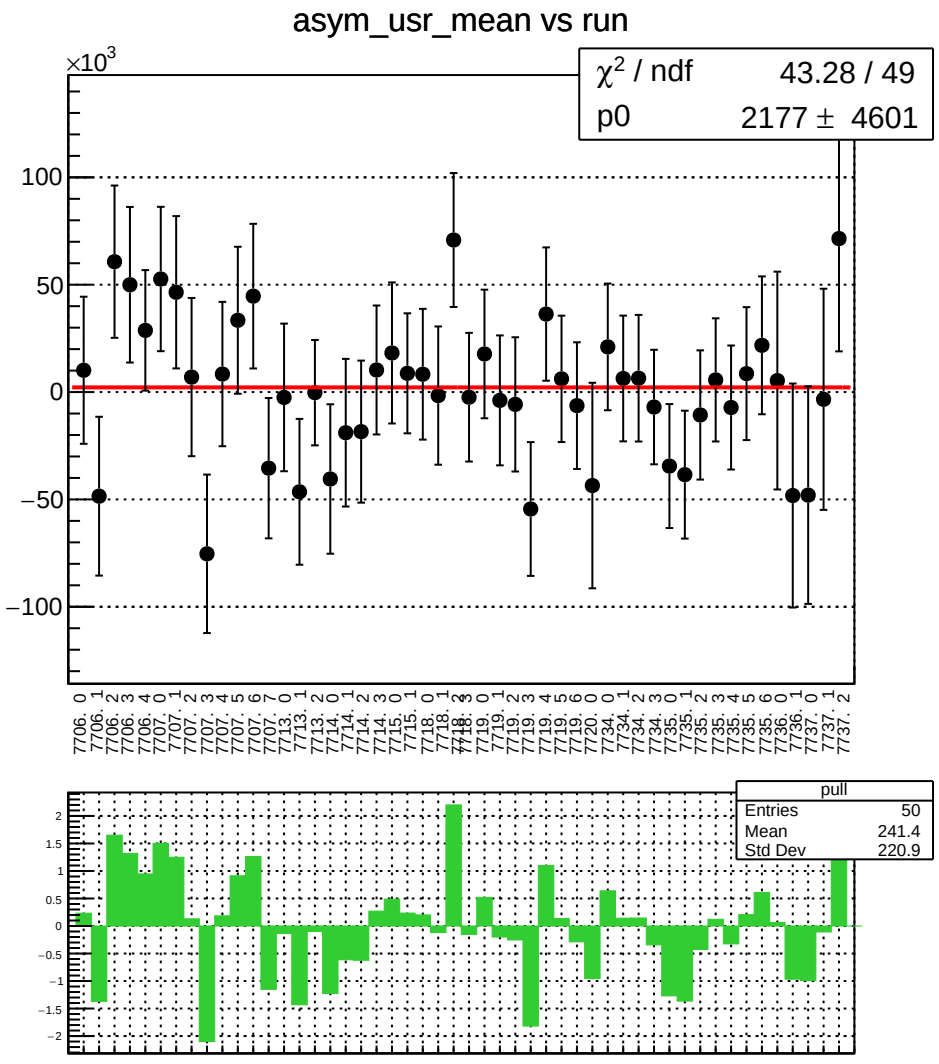
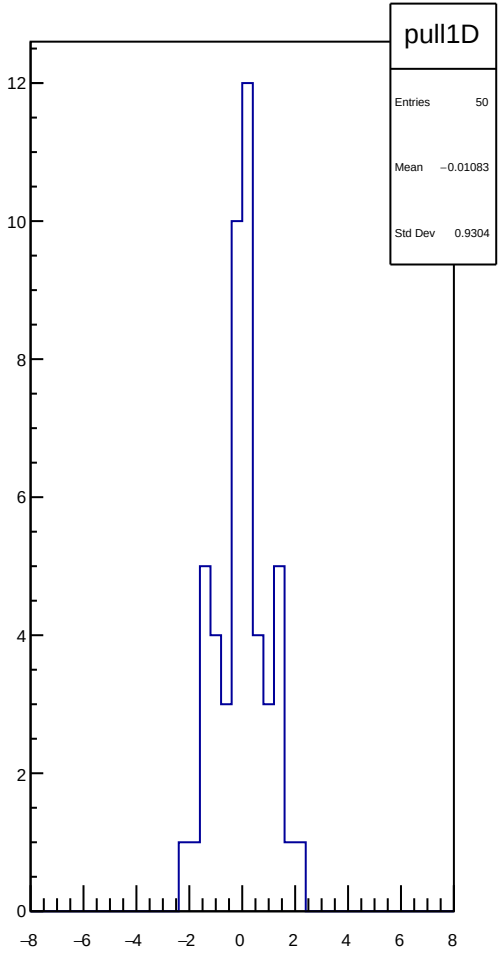
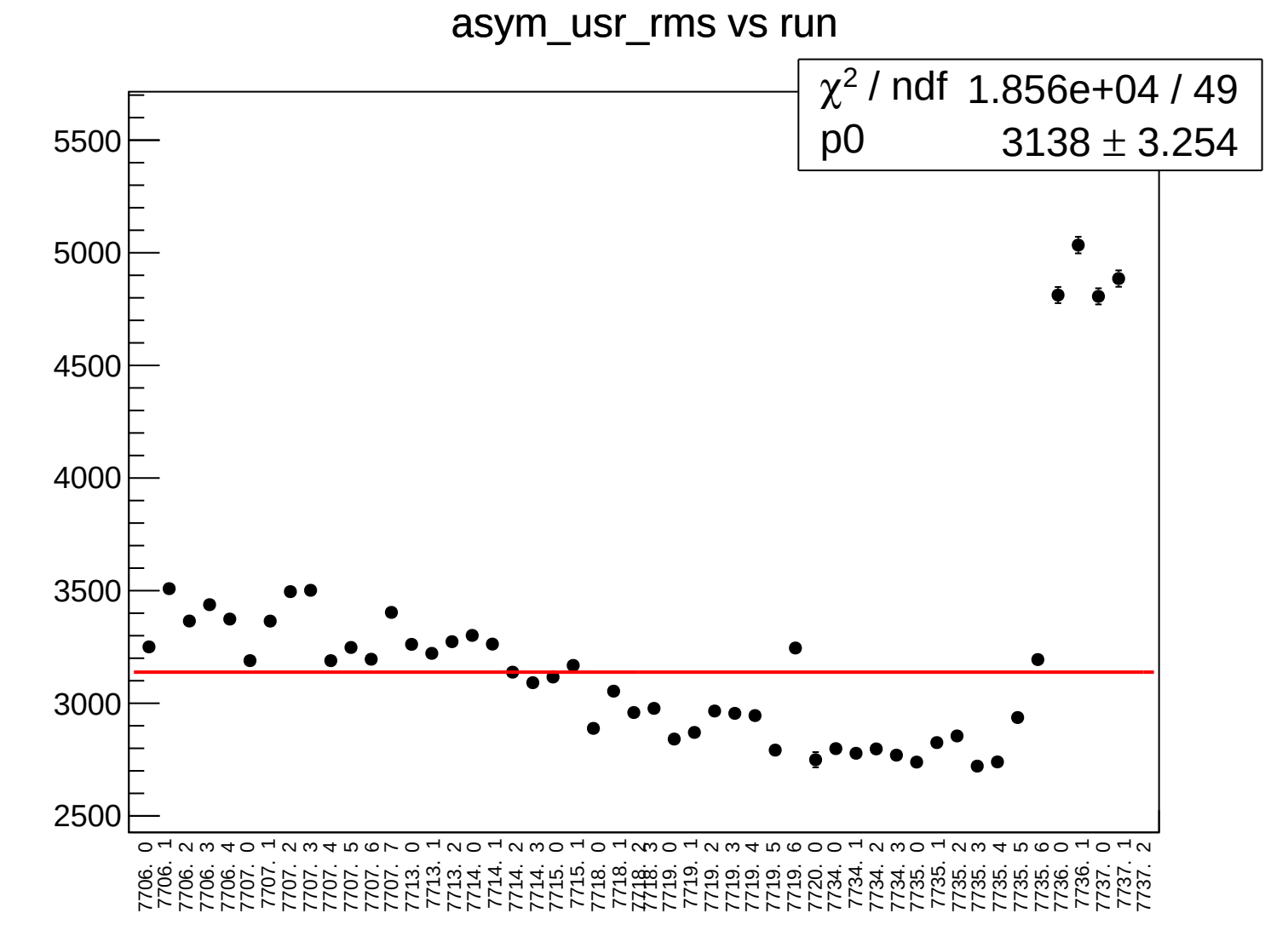
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

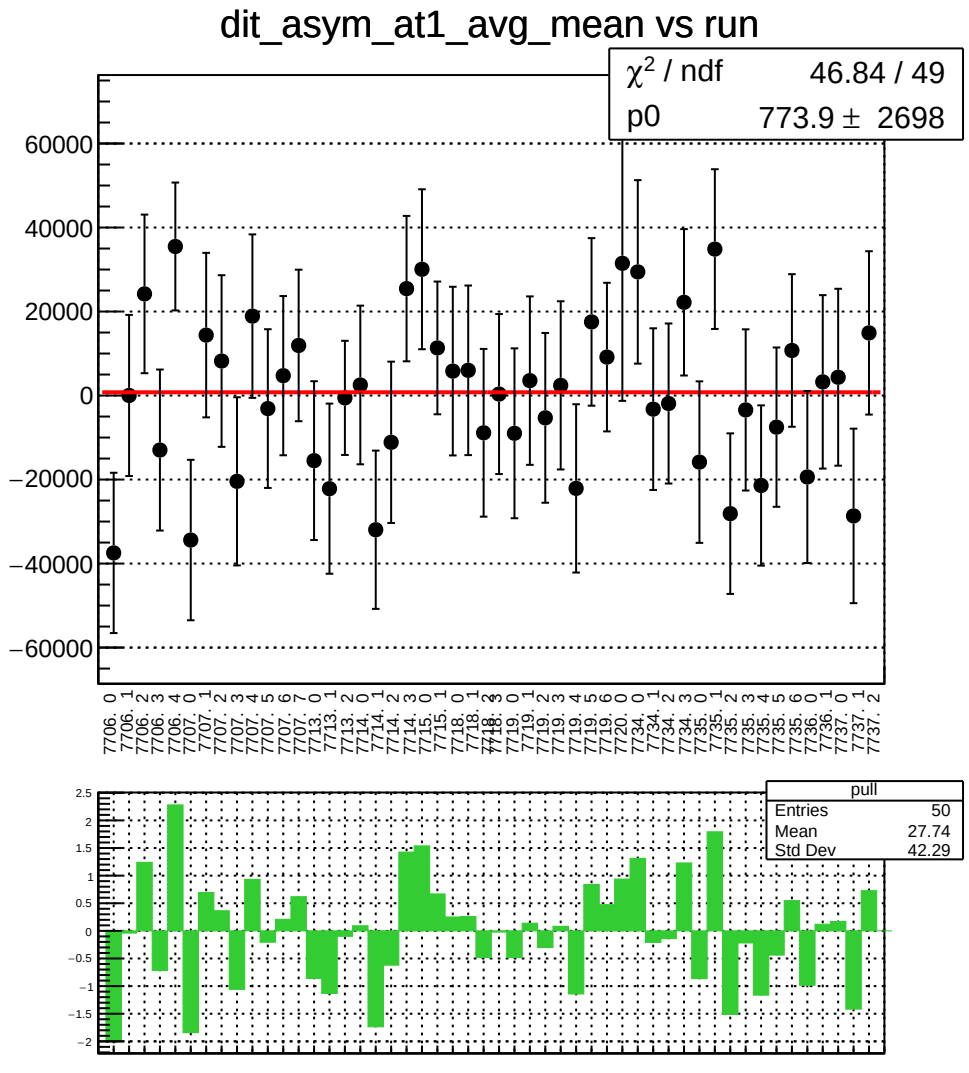

asym_usr_correction_mean vs run
×10^3
χ² / ndf 40.75 / 49
p0 2517 ± 4108
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −106.1
Std Dev 123.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.02231
Std Dev 0.9025
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

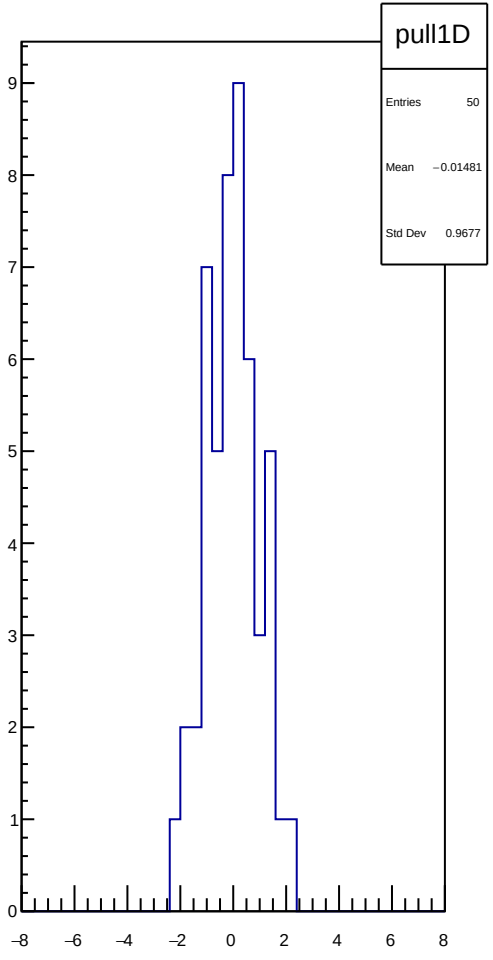

asym_usr_correction_rms vs run
χ² / ndf 2.528e+04 / 49
p0 2792 ± 2.905
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

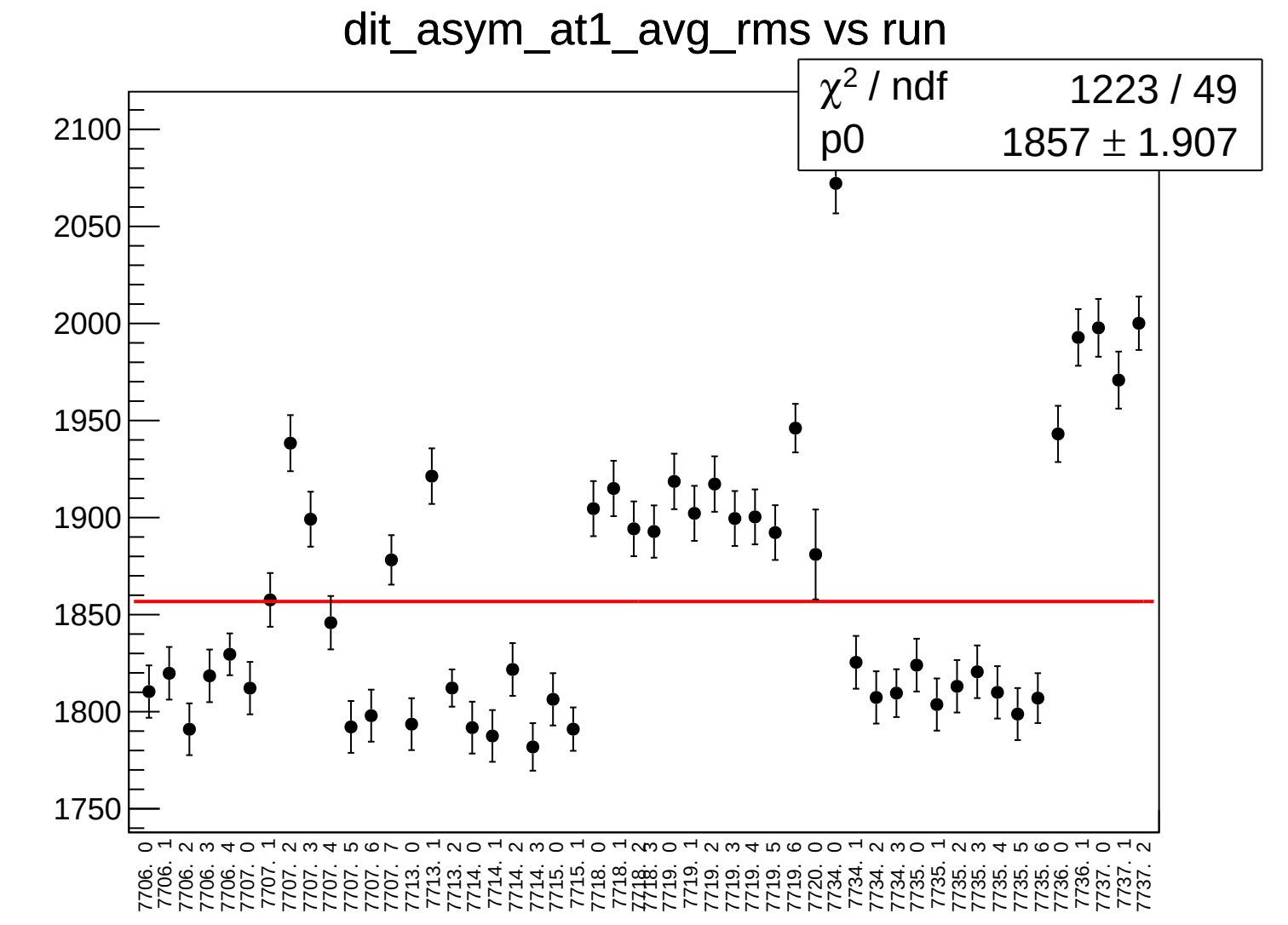

asym_usr_mean vs run
×10^3
χ² / ndf 43.28 / 49
p0 2177 ± 4601
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 241.4
Std Dev 220.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01083
Std Dev 0.9304
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 1.856e+04 / 49
p0 3138 ± 3.254
5500
5000
4500
4000
3500
3000
2500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_at1_avg_mean vs run
χ² / ndf 46.84 / 49
p0 773.9 ± 2698
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 27.74
Std Dev 42.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01481
Std Dev 0.9677
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
χ^2 / ndf 1223 / 49
p0 1857 ± 1.907
2100
2050
2000
1950
1900
1850
1800
1750
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
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7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
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7734. 2
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7735. 1
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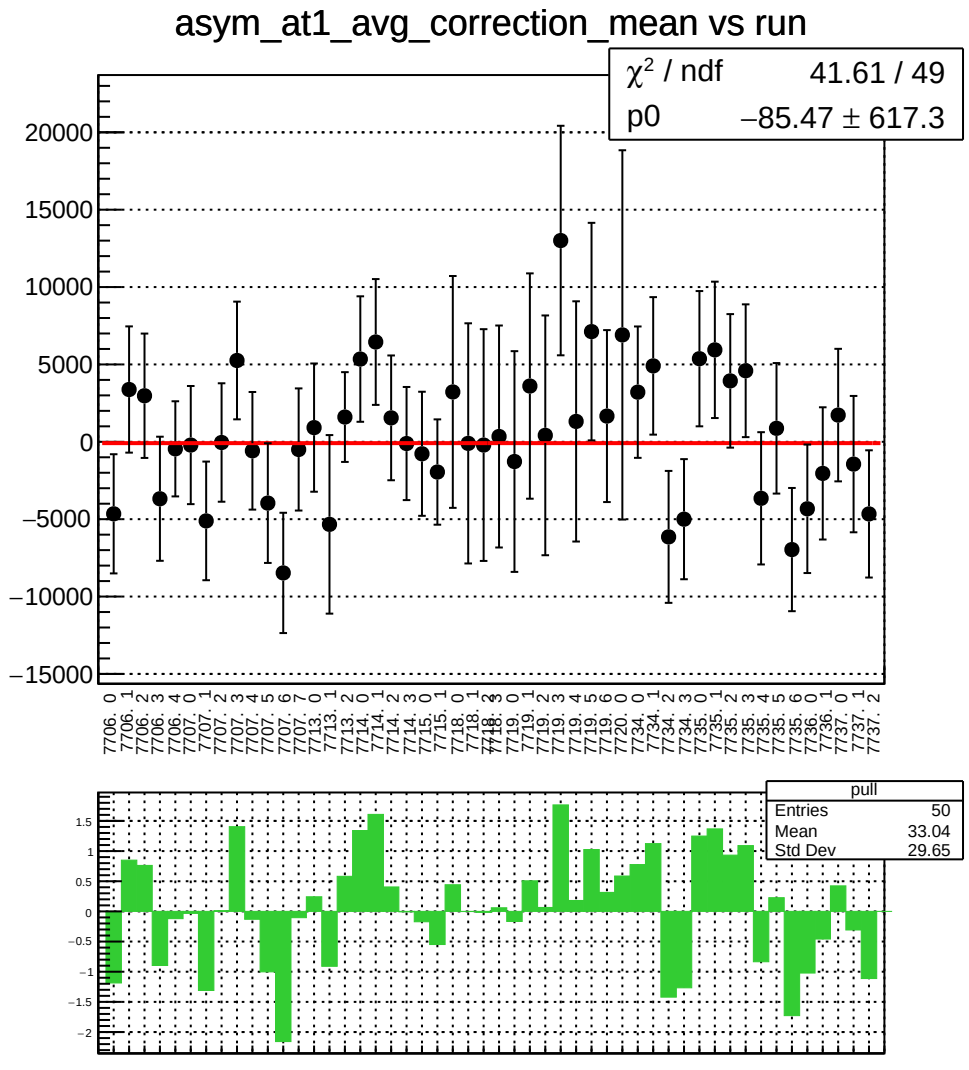
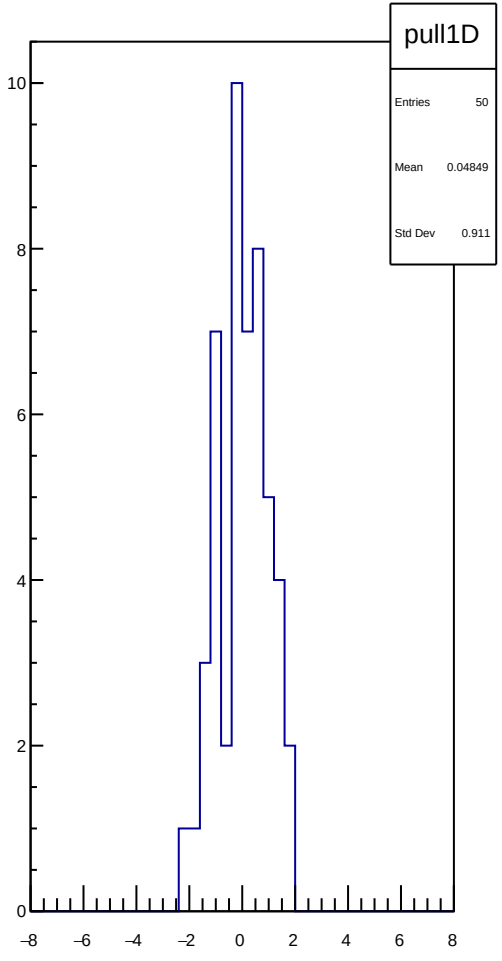
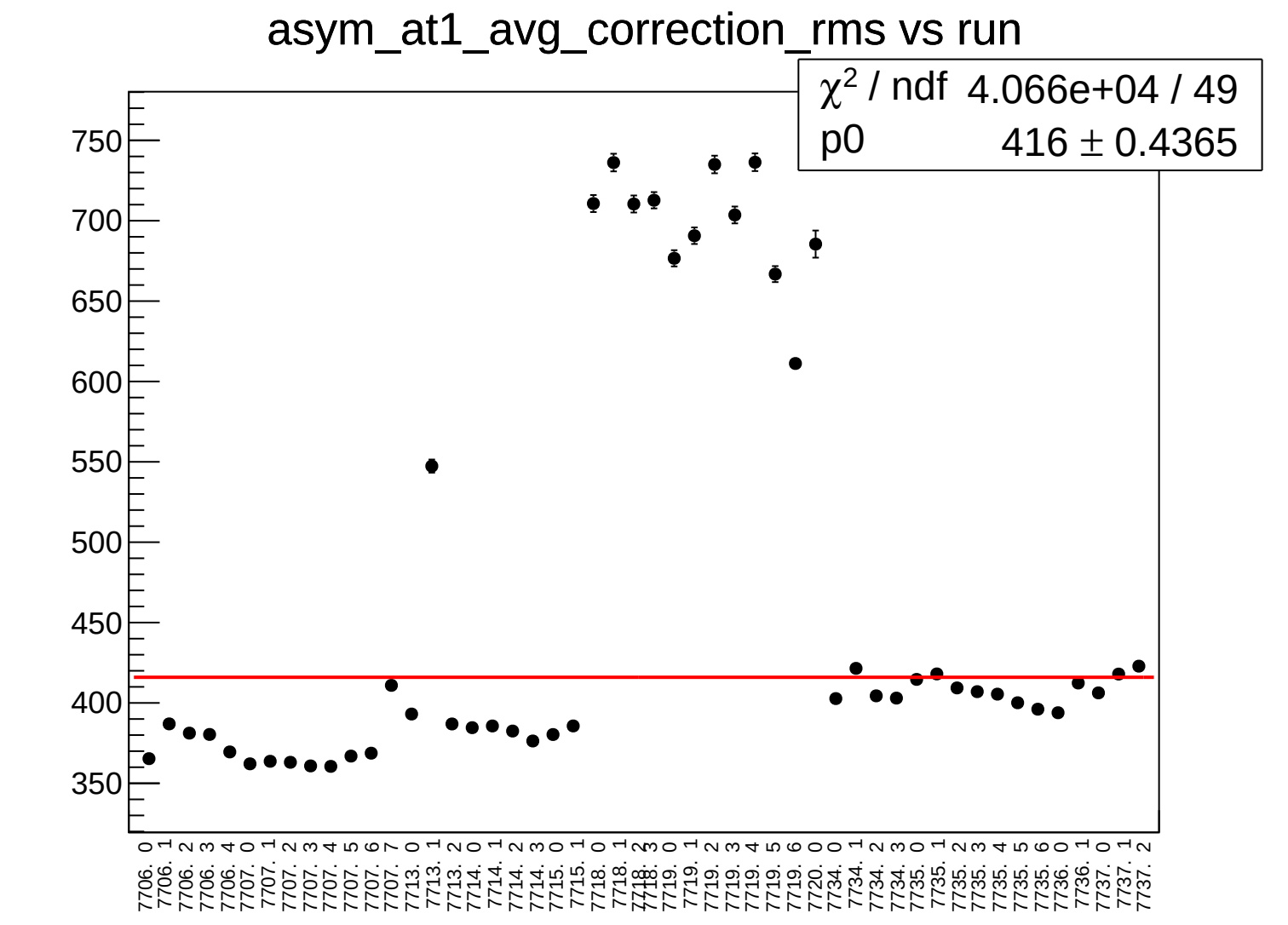
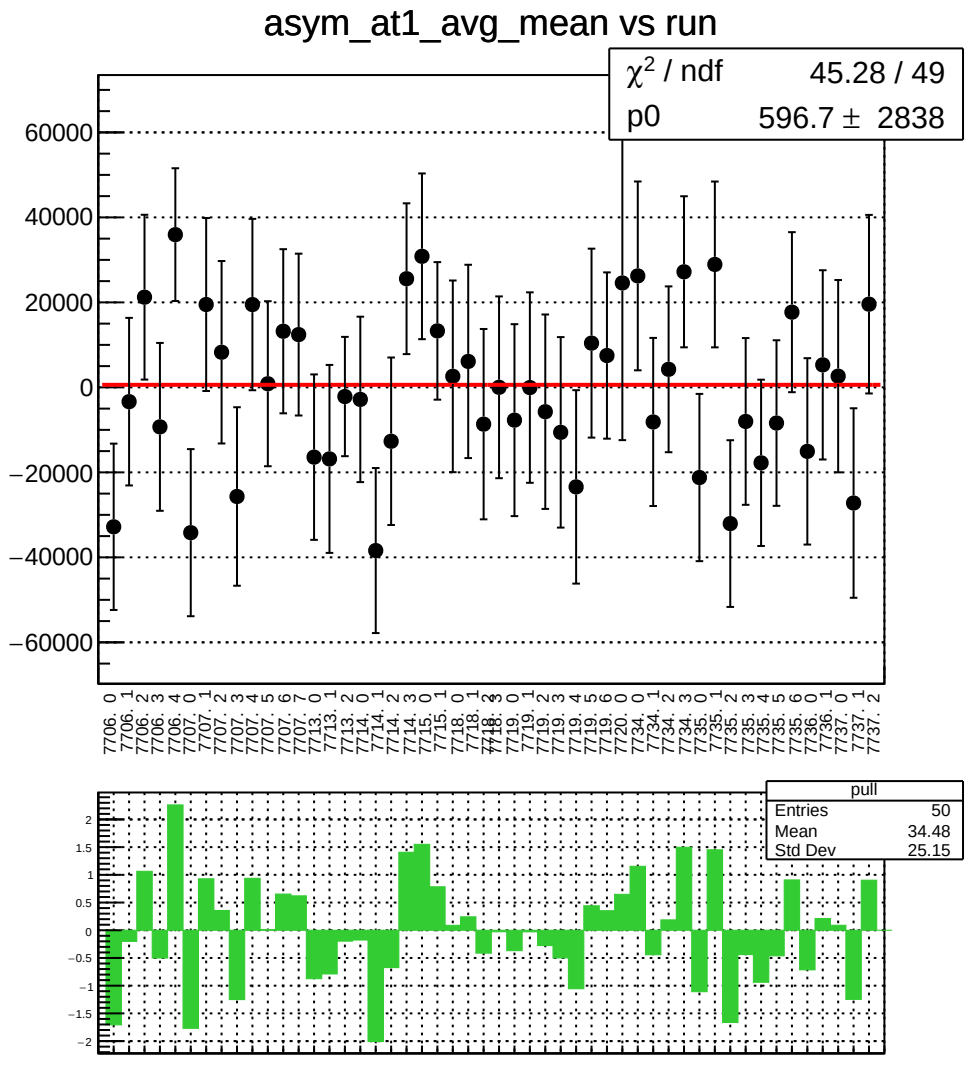
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_at1_avg_correction_mean vs run
χ² / ndf 41.61 / 49
p0 −85.47 ± 617.3
pull
Entries 50
Mean 33.04
Std Dev 29.65


pull1D
Entries 50
Mean 0.04849
Std Dev 0.911


asym_at1_avg_correction_rms vs run
χ² / ndf 4.066e+04 / 49
p0 416 ± 0.4365
750
700
650
600
550
500
450
400
350
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_at1_avg_mean vs run
χ² / ndf 45.28 / 49
p0 596.7 ± 2838
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
7707. 3
7707. 4
7707. 5
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7713. 0
7713. 1
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7715. 1
7718. 0
7718. 1
7718. 3
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7719. 2
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7719. 6
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7734. 1
7734. 2
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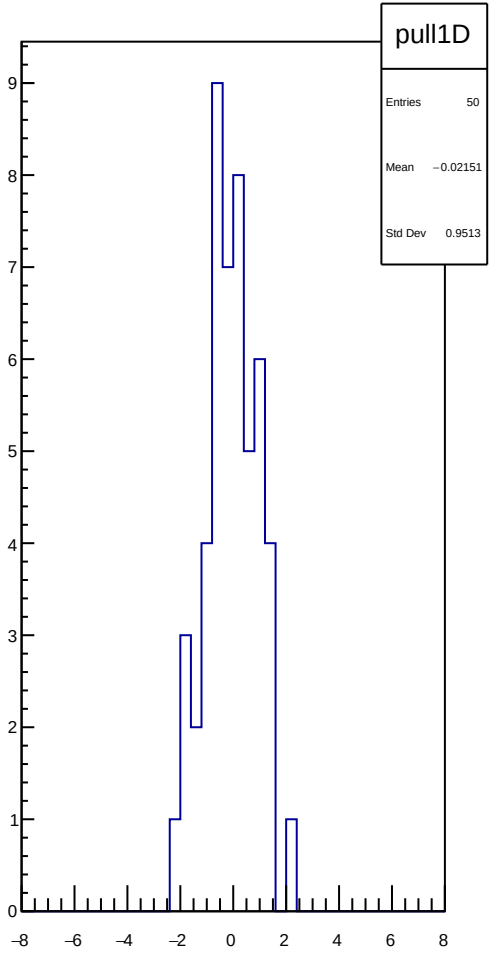
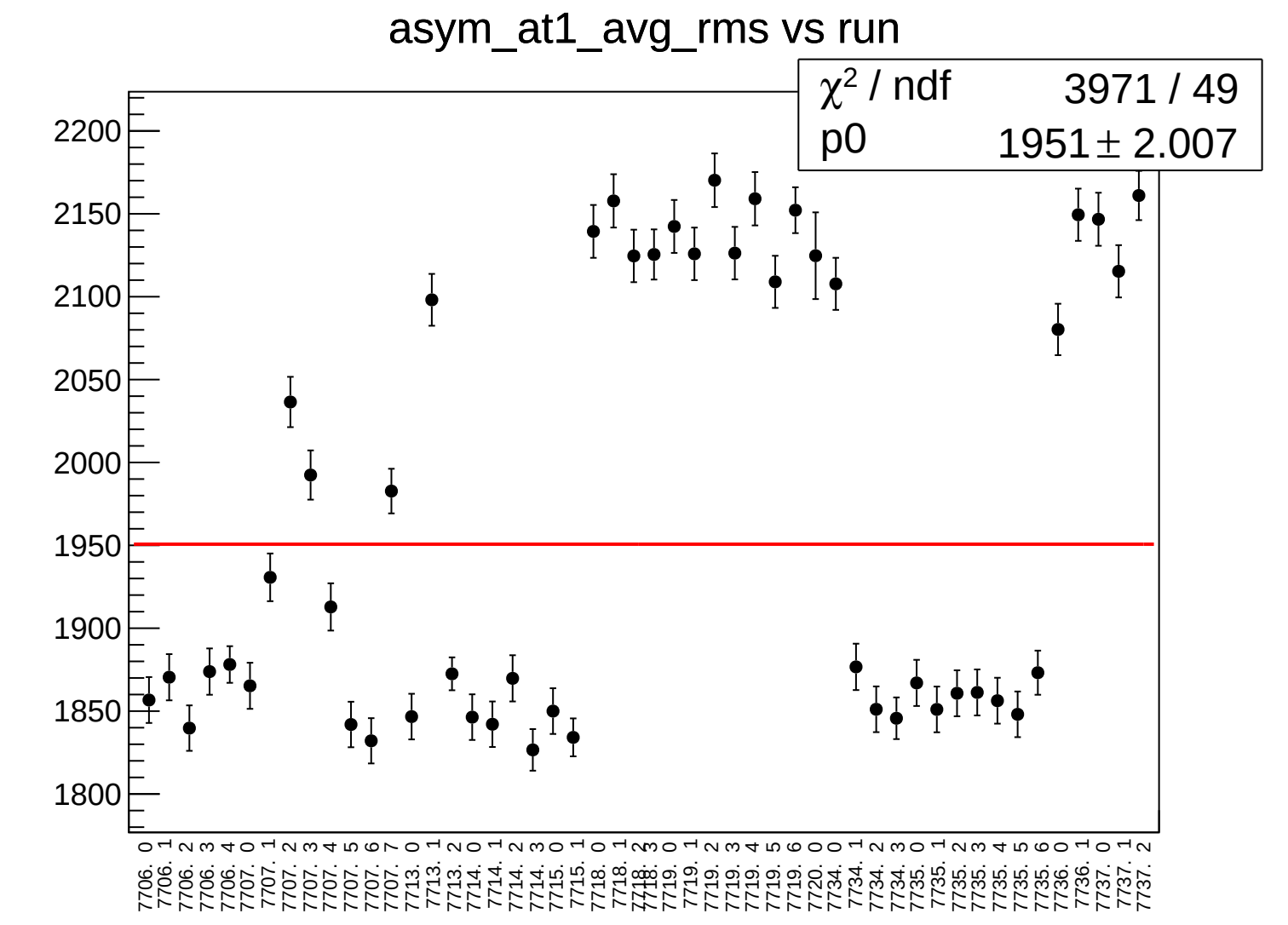
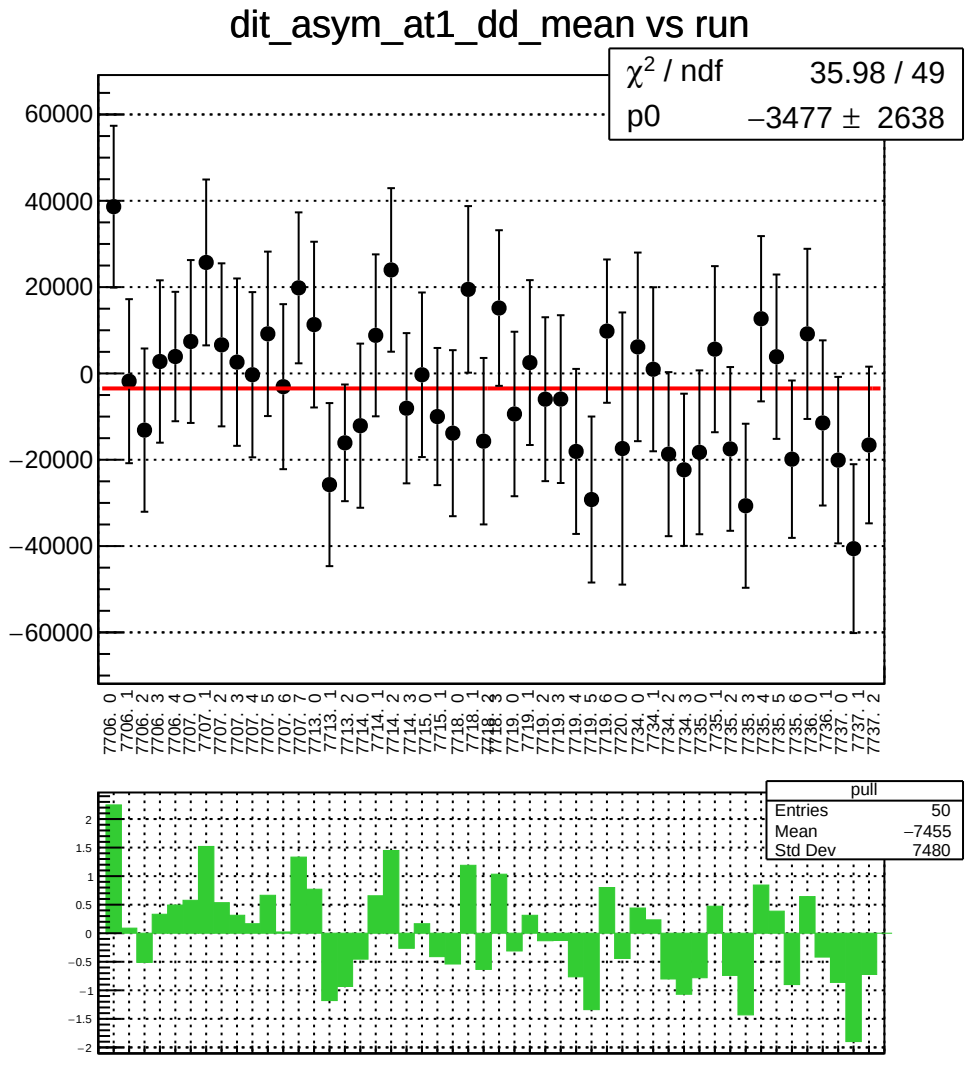
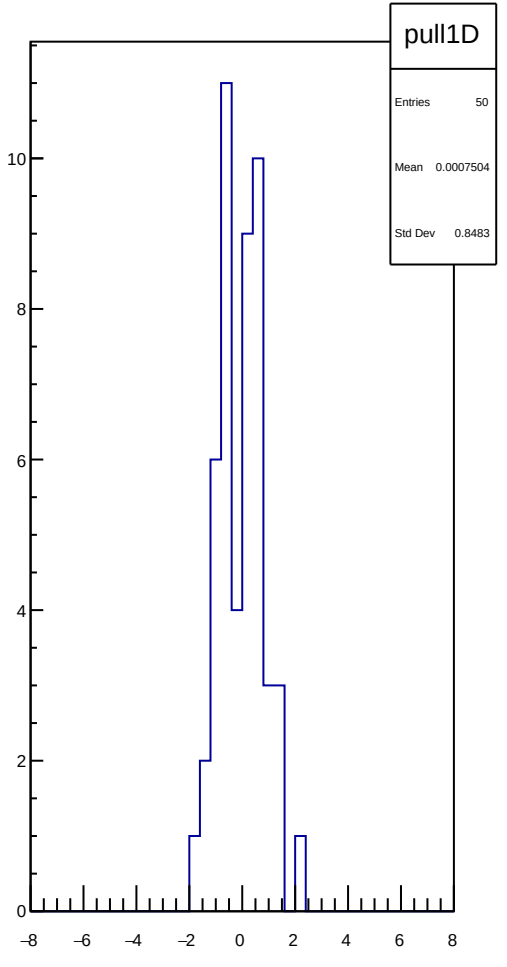
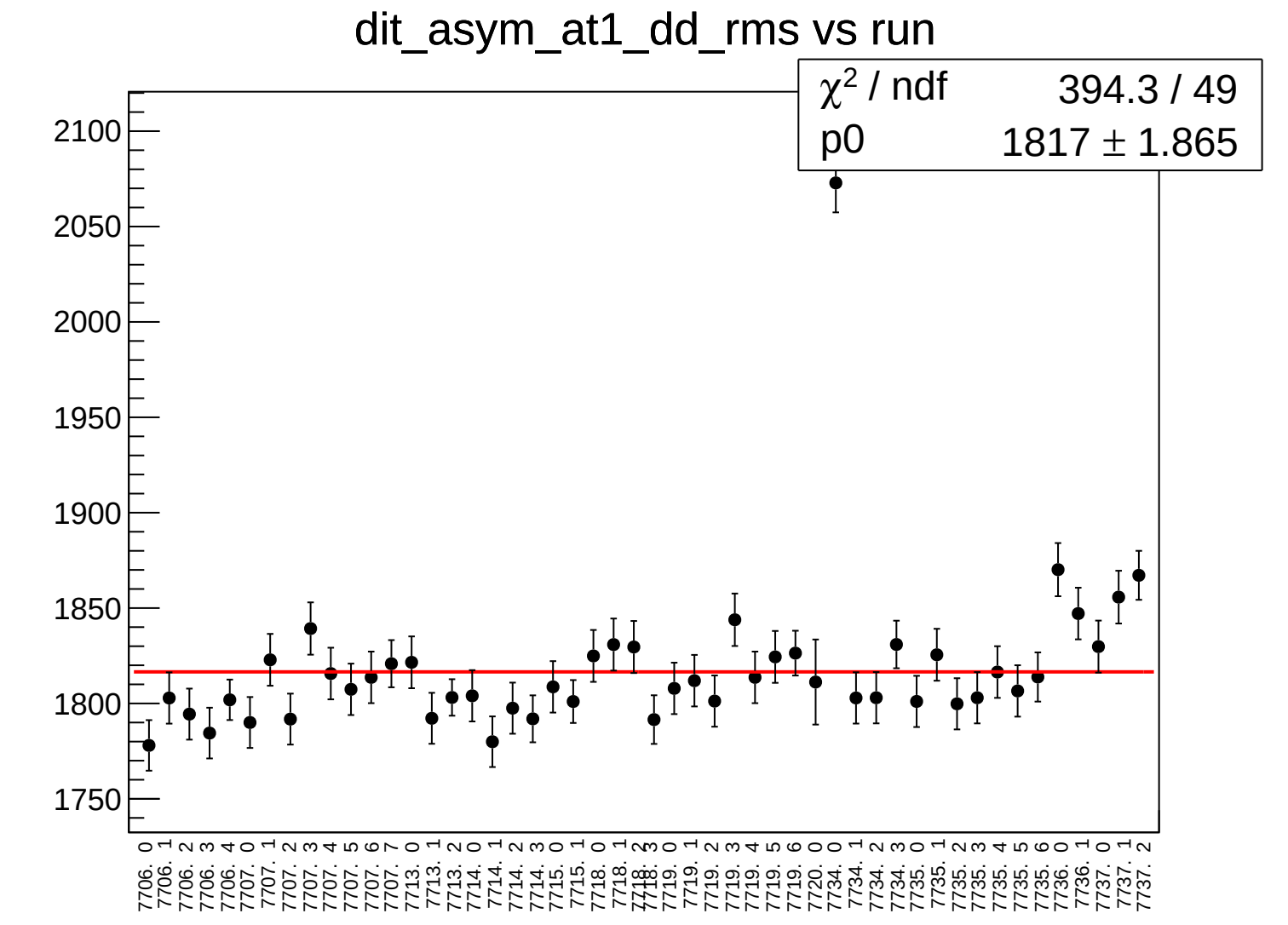
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 34.48
Std Dev 25.15
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

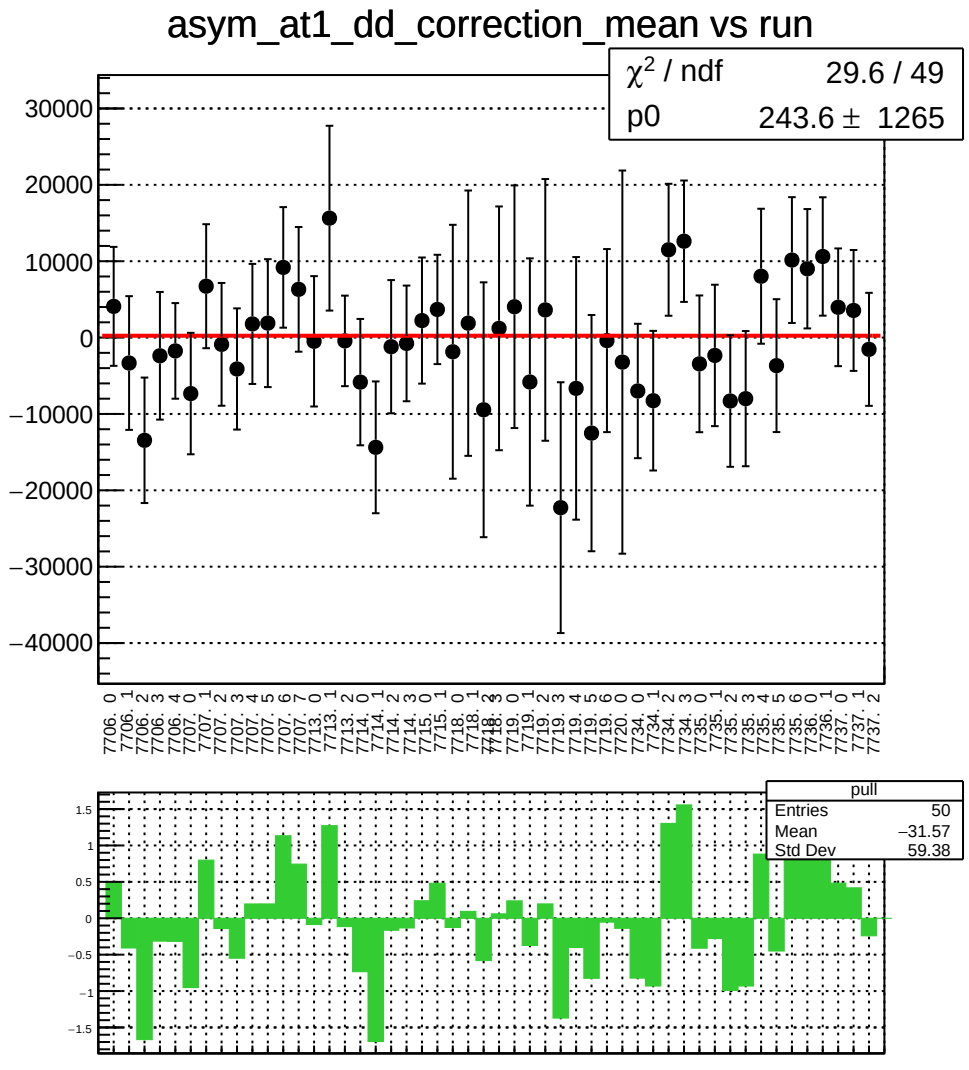

pull1D
Entries 50
Mean −0.02151
Std Dev 0.9513
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

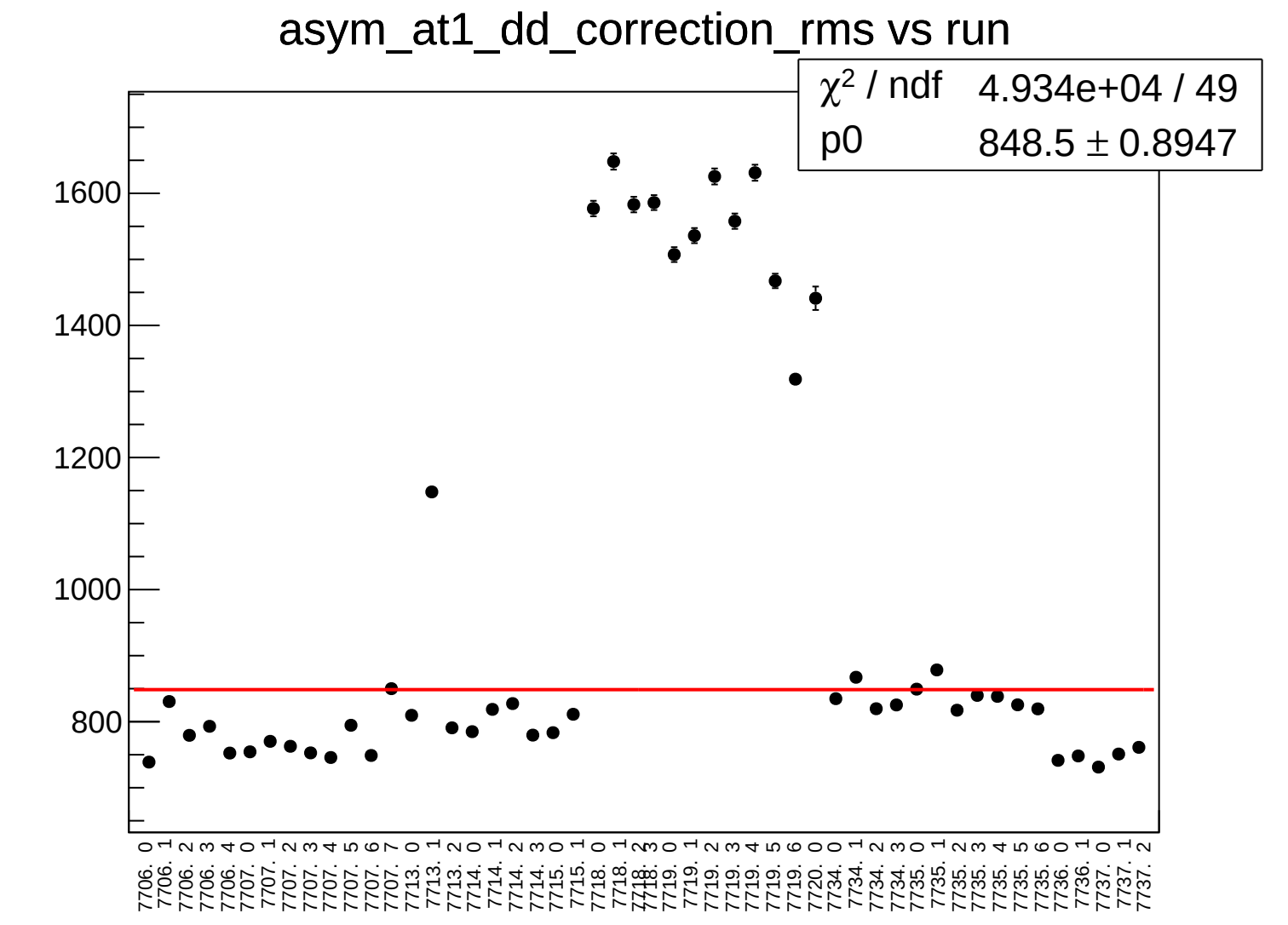

asym_at1_avg_rms vs run
χ² / ndf 3971 / 49
p0 1951 ± 2.007
2200
2150
2100
2050
2000
1950
1900
1850
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

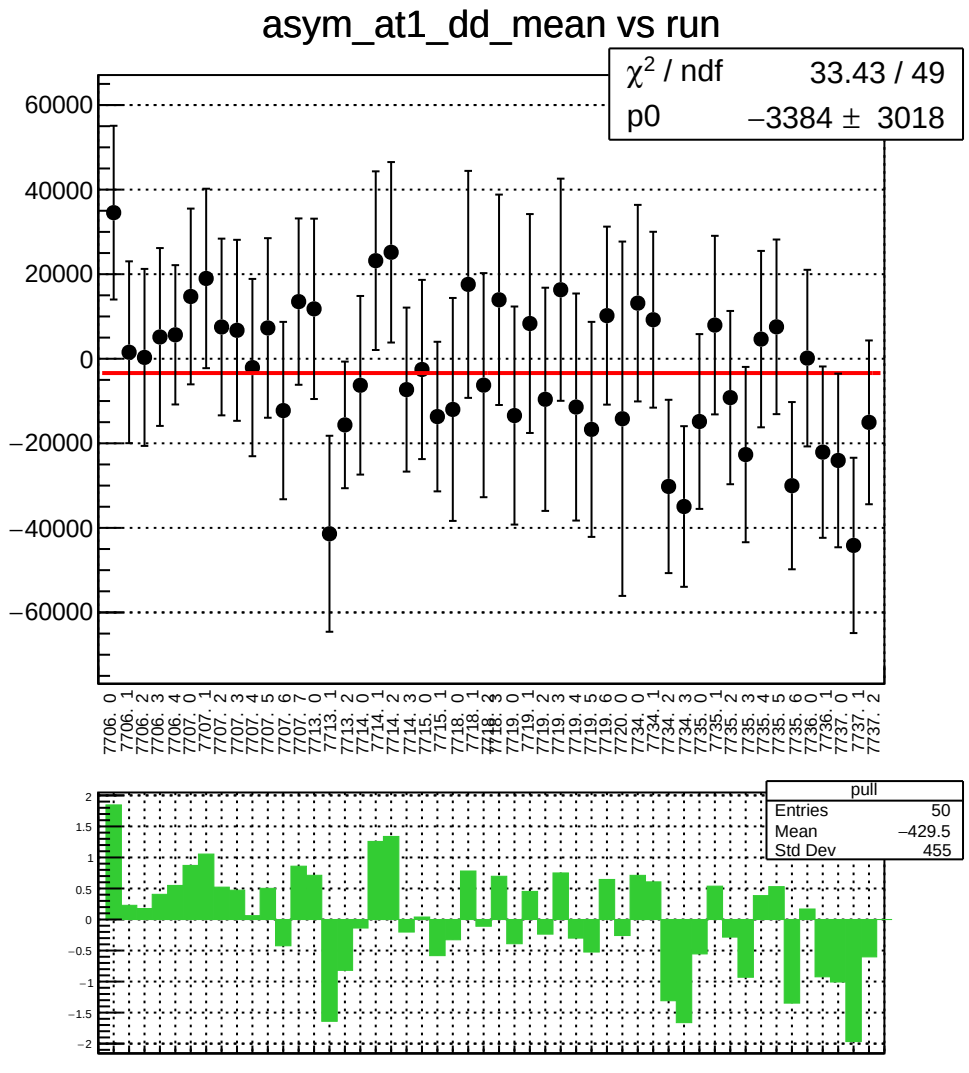

dit_asym_at1_dd_mean vs run
χ² / ndf 35.98 / 49
p0 −3477 ± 2638
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −7455
Std Dev 7480
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

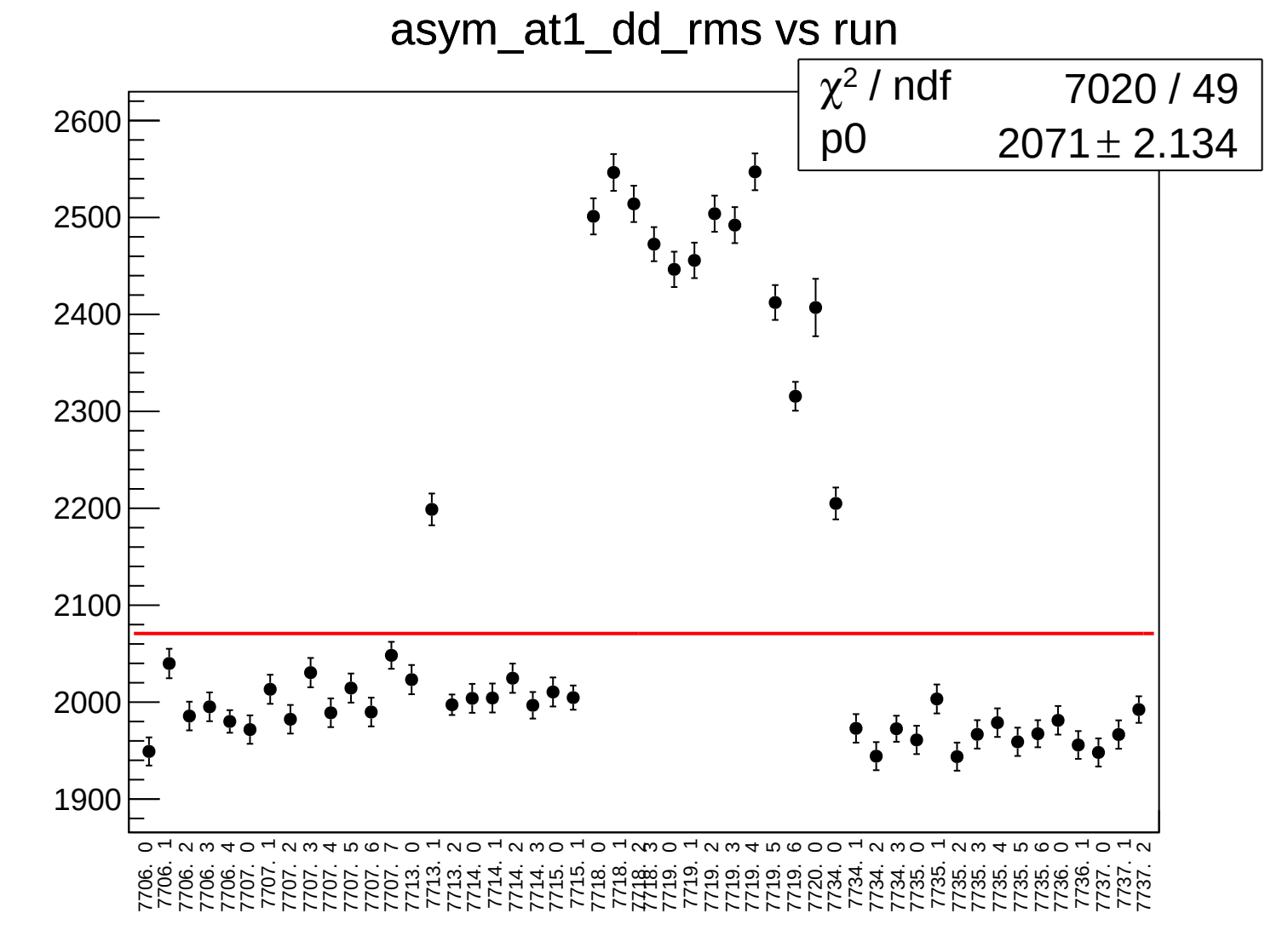

pull1D
Entries 50
Mean 0.0007504
Std Dev 0.8483
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

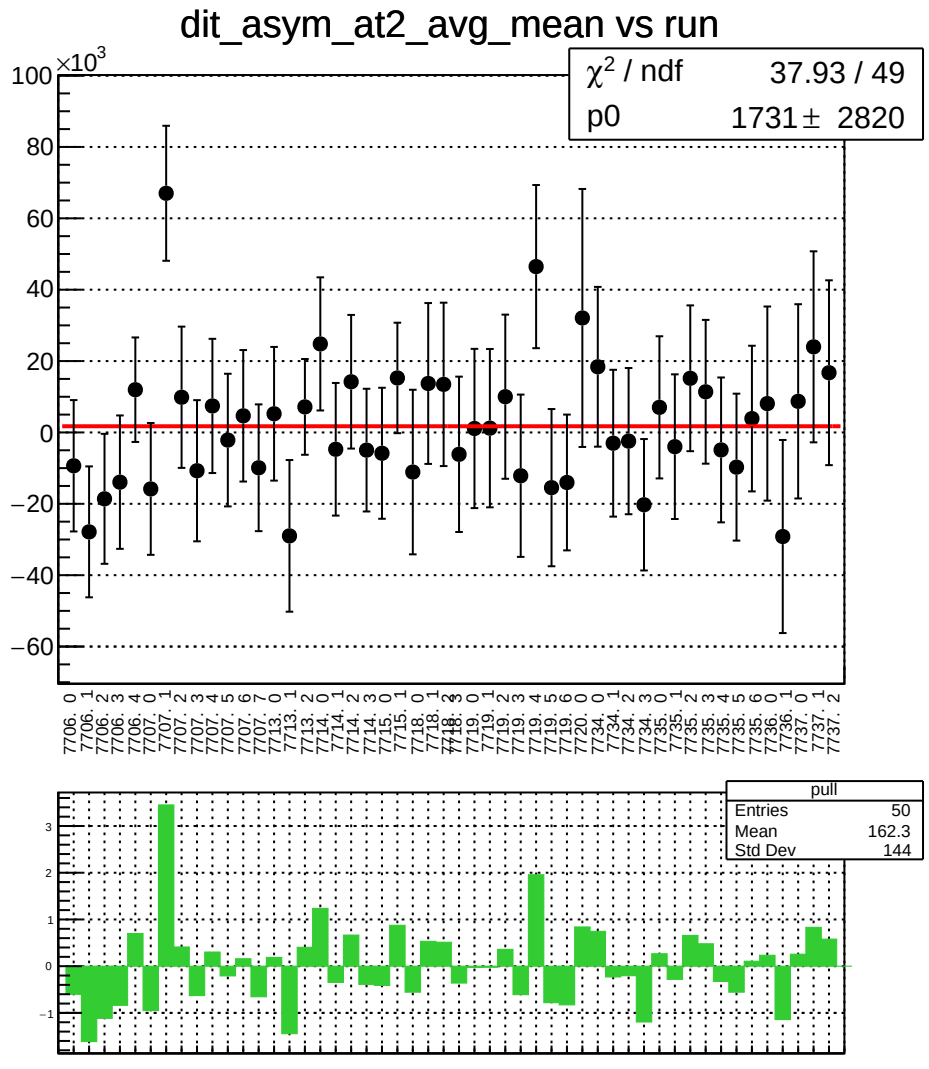

dit_asym_at1_dd_rms vs run
χ² / ndf 394.3 / 49
p0 1817 ± 1.865
2100
2050
2000
1950
1900
1850
1800
1750
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

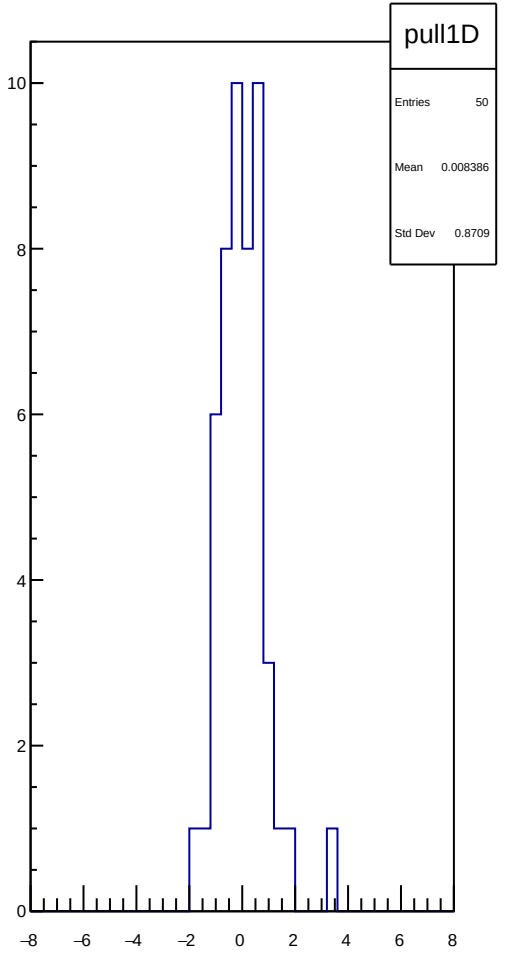

asym_at1_dd_correction_mean vs run
χ² / ndf 29.6 / 49
p0 243.6 ± 1265
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −31.57
Std Dev 59.38
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.03491
Std Dev 0.7686
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

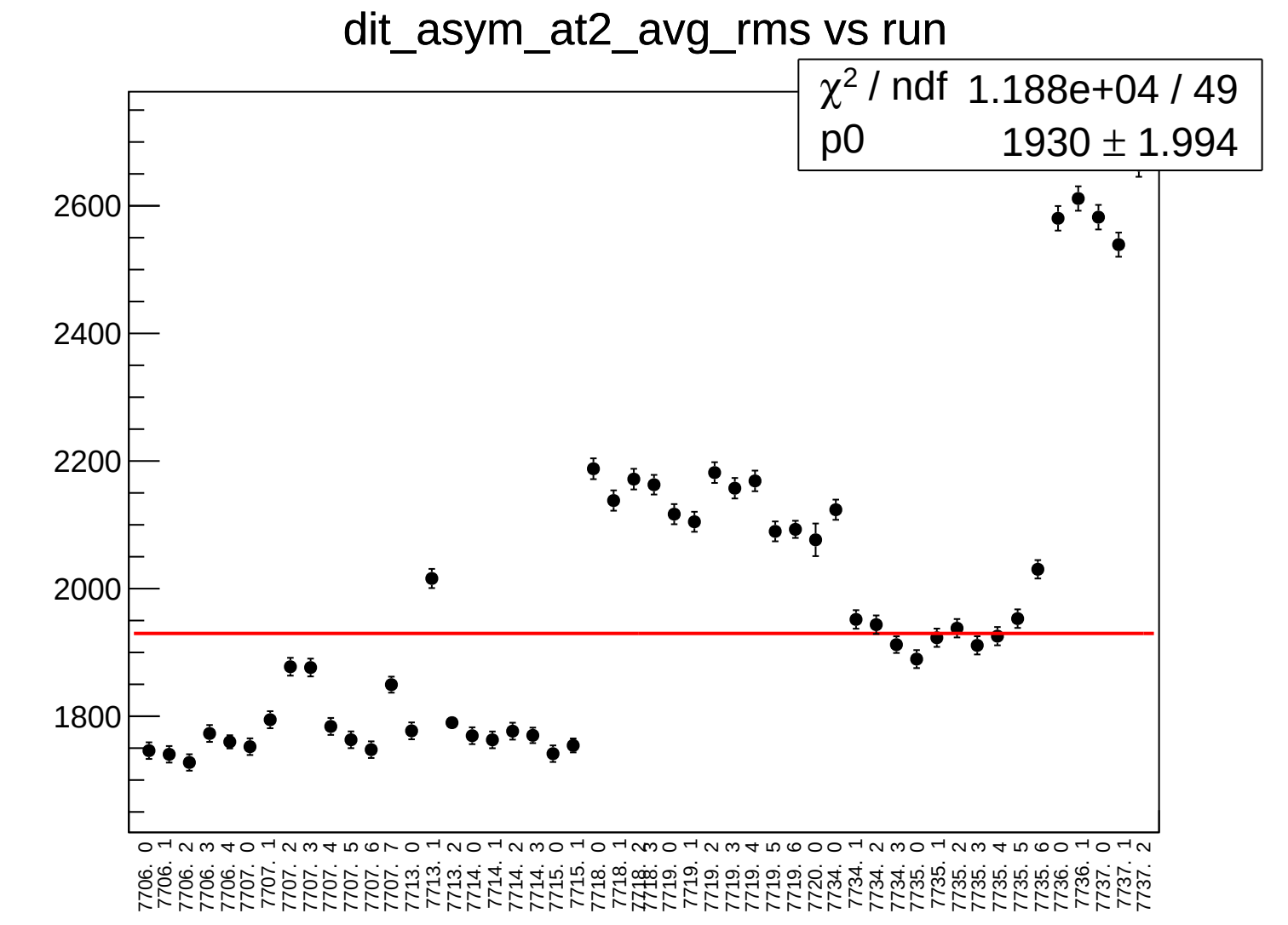

asym_at1_dd_correction_rms vs run
χ² / ndf 4.934e+04 / 49
p0 848.5 ± 0.8947
1600
1400
1200
1000
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

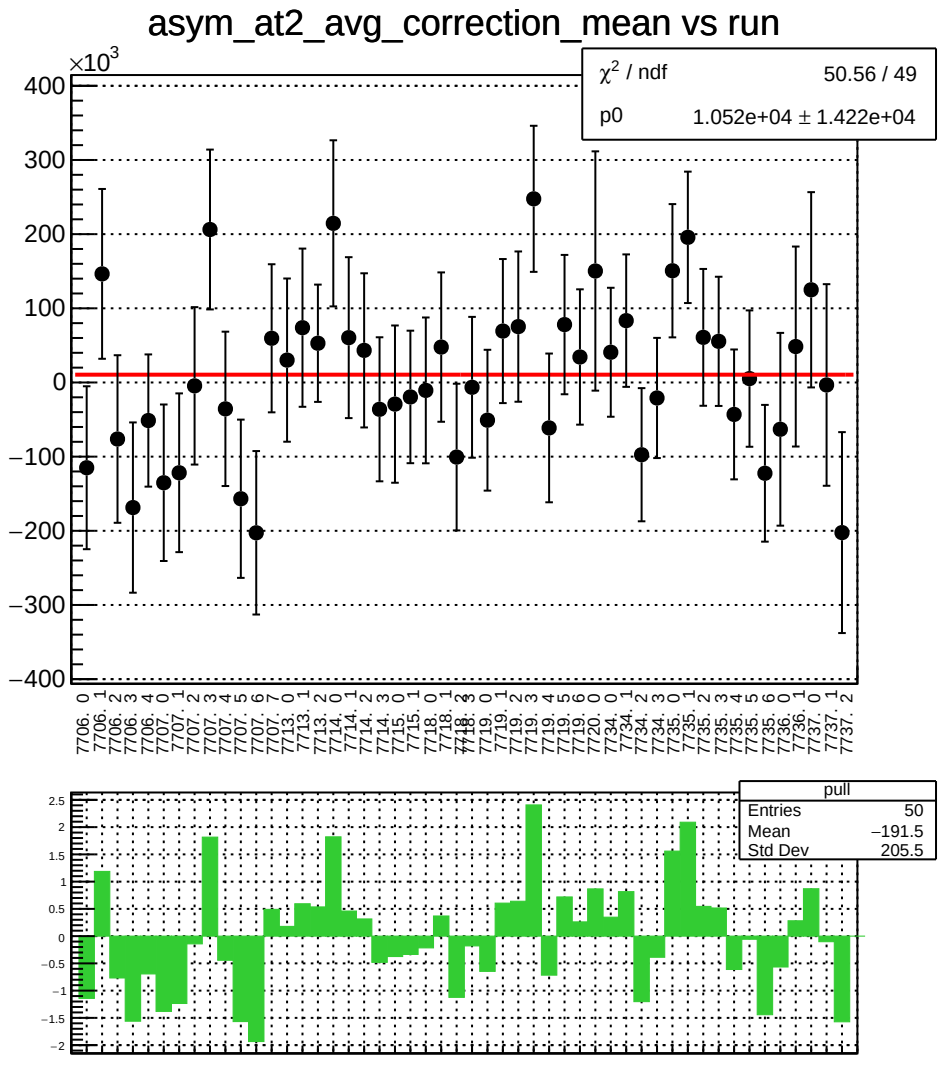

asym_at1_dd_mean vs run
χ² / ndf 33.43 / 49
p0 −3384 ± 3018
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −429.5
Std Dev 455
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01274
Std Dev 0.8175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

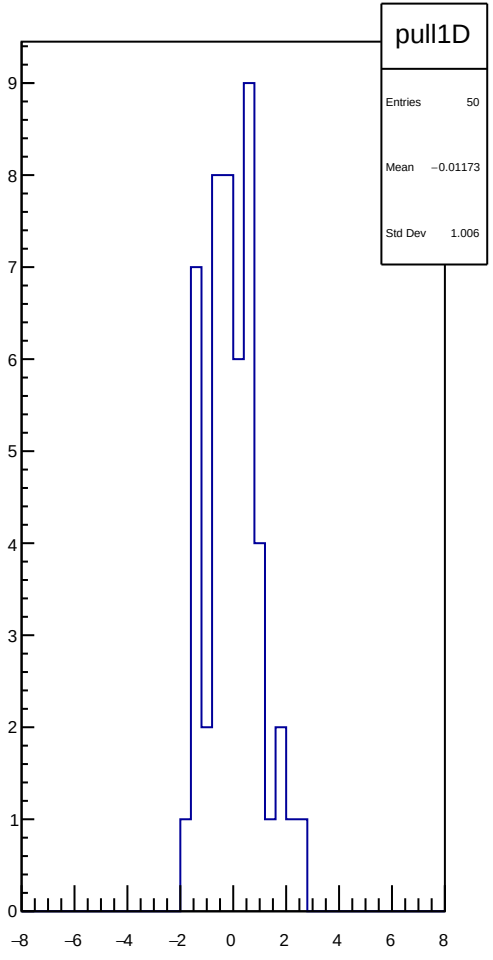

asym_at1_dd_rms vs run
χ² / ndf 7020 / 49
p0 2071 ± 2.134
2600
2500
2400
2300
2200
2100
2000
1900
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

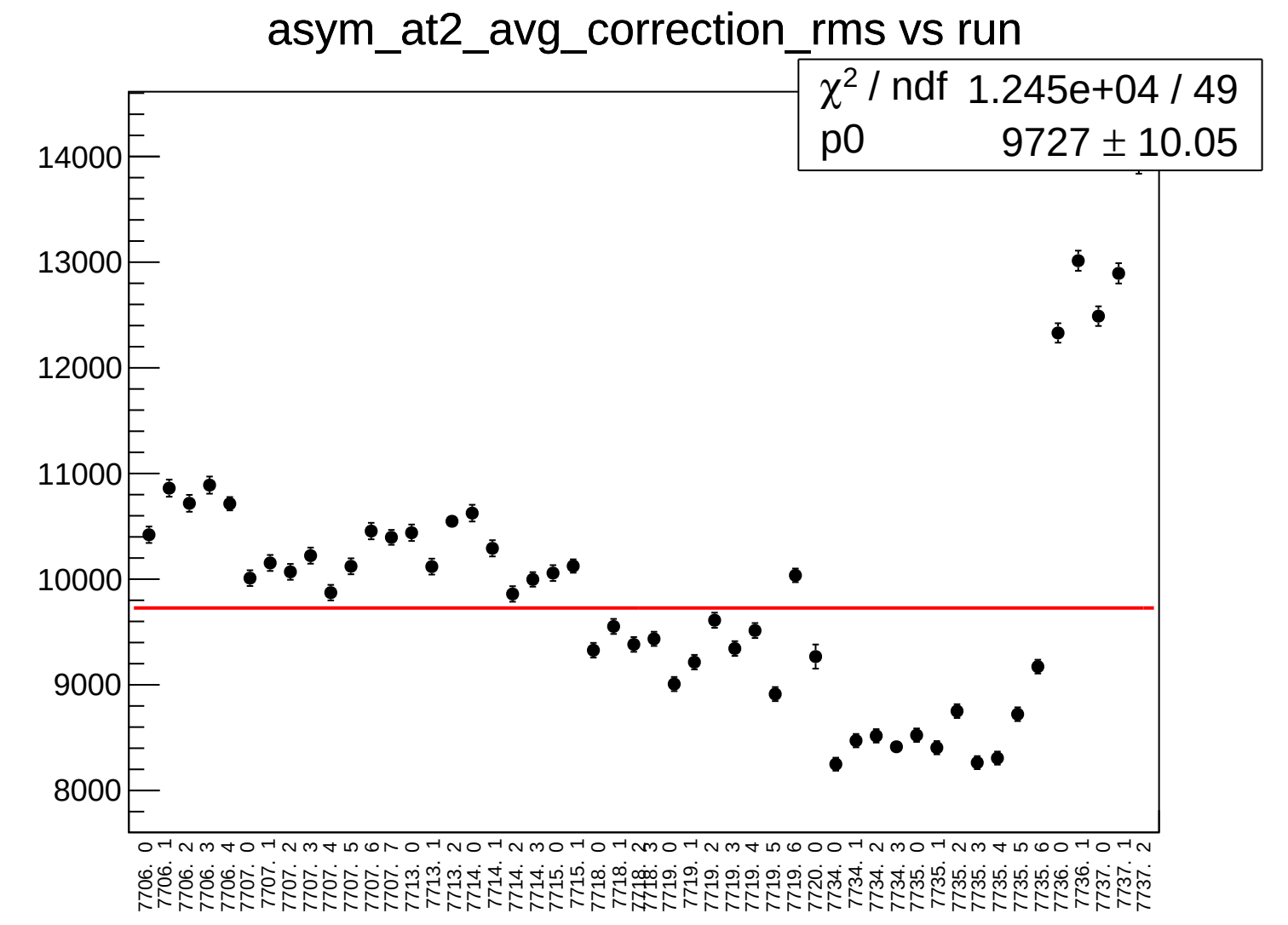

dit_asym_at2_avg_mean vs run
χ² / ndf 37.93 / 49
p0 1731 ± 2820
×10³
pull
Entries 50
Mean 162.3
Std Dev 144

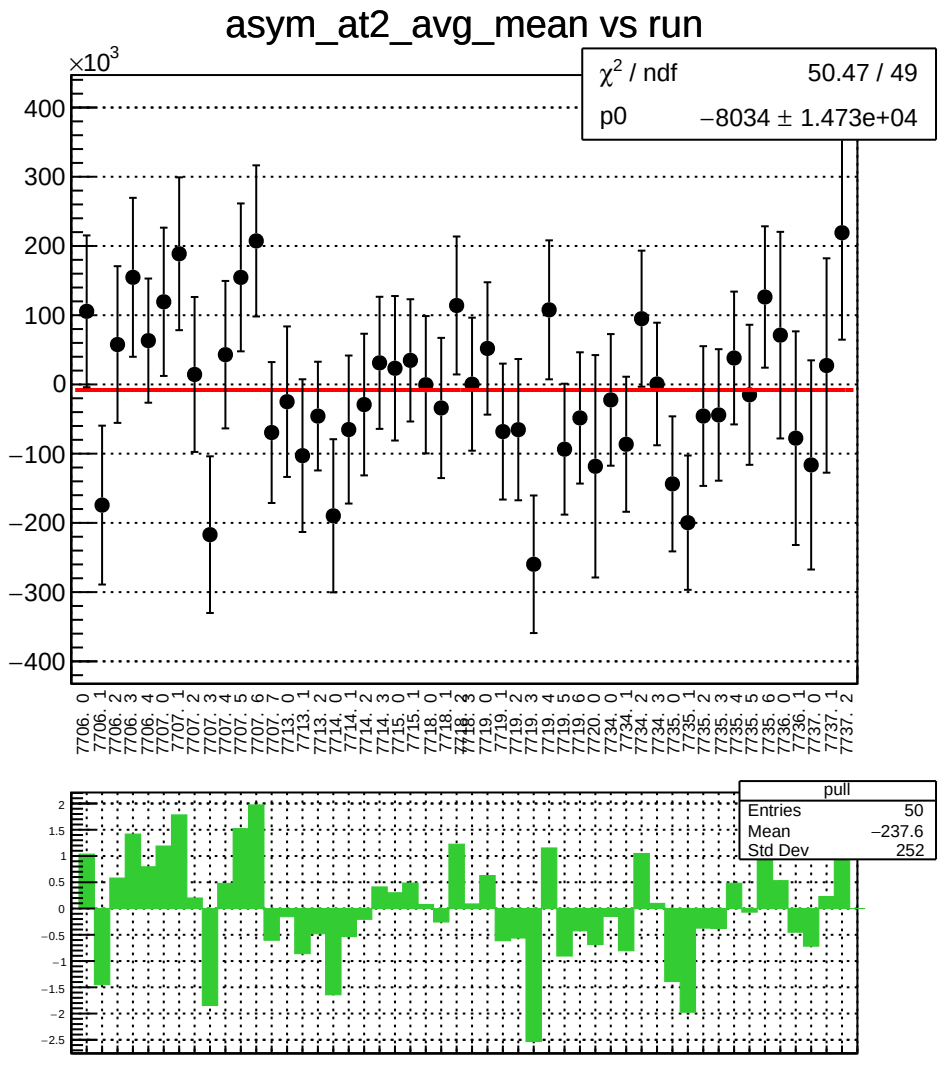

pull1D
Entries 50
Mean 0.008386
Std Dev 0.8709

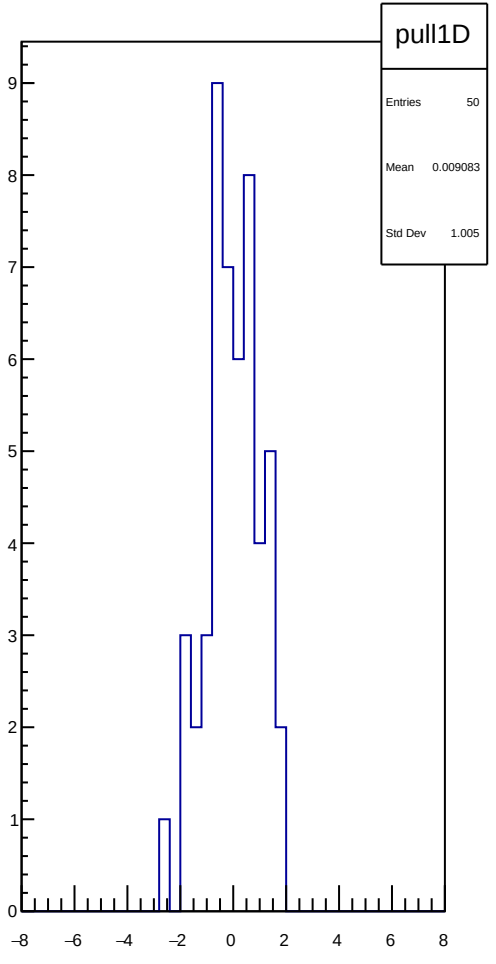

dit_asym_at2_avg_rms vs run
χ² / ndf 1.188e+04 / 49
p0 1930 ± 1.994
2600
2400
2200
2000
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

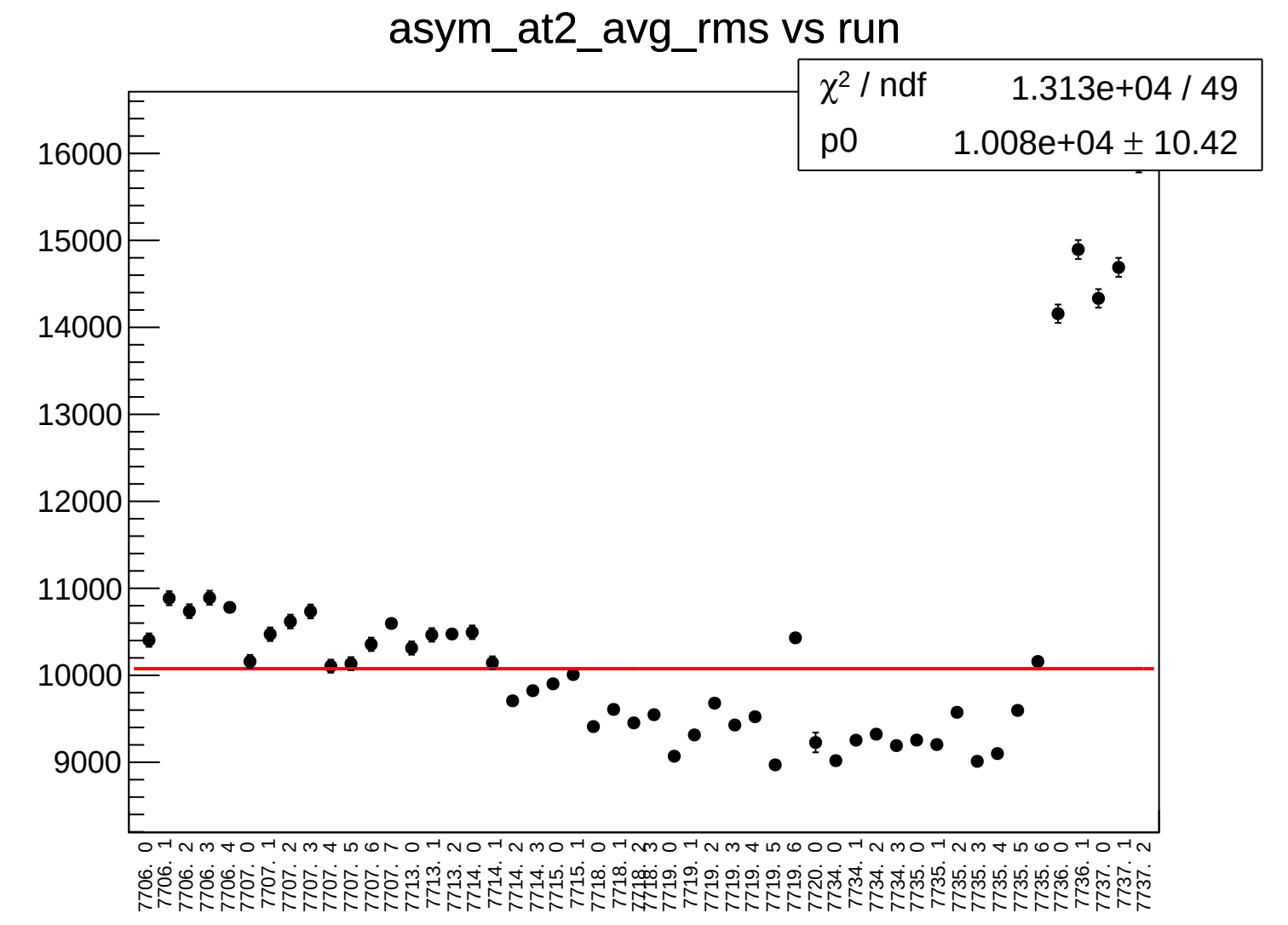

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 50.56 / 49
p0 1.052e+04 ± 1.422e+04
pull
Entries 50
Mean −191.5
Std Dev 205.5

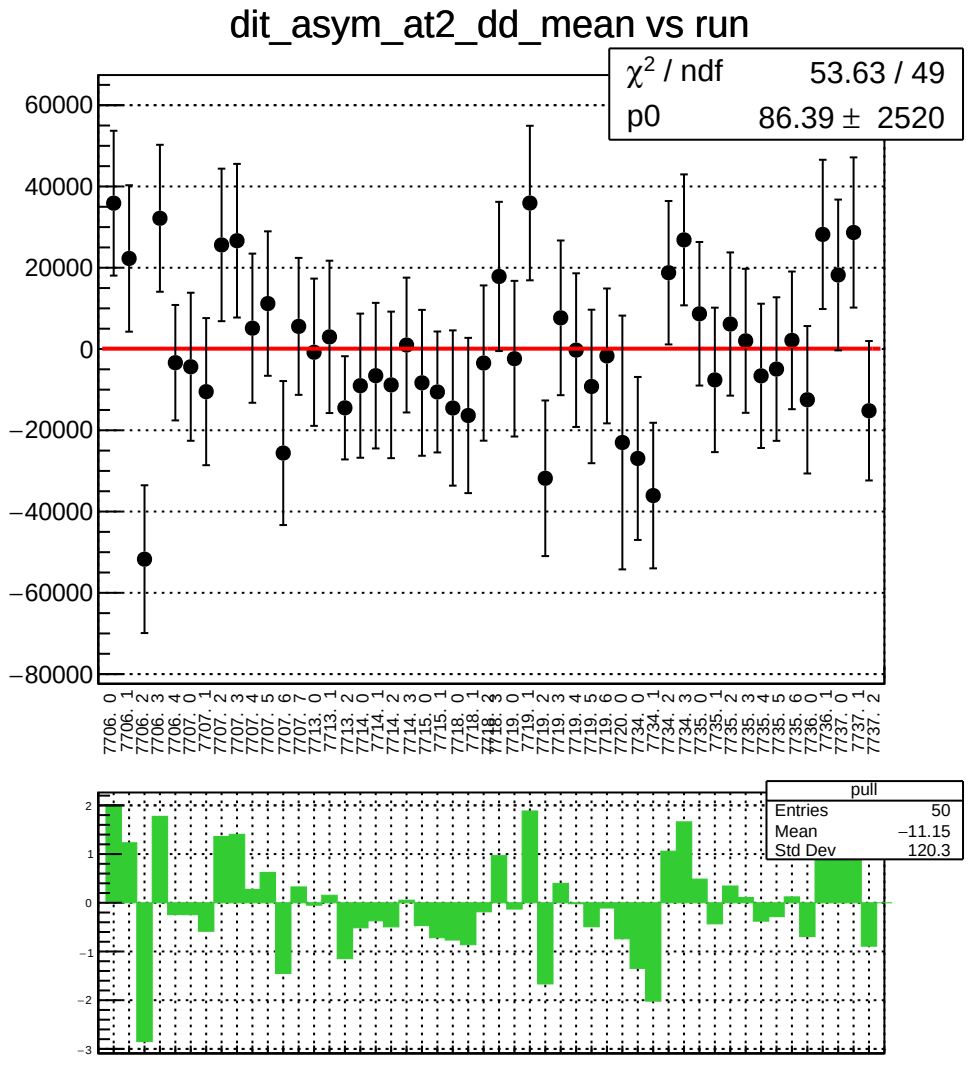

pull1D
Entries 50
Mean −0.01173
Std Dev 1.006

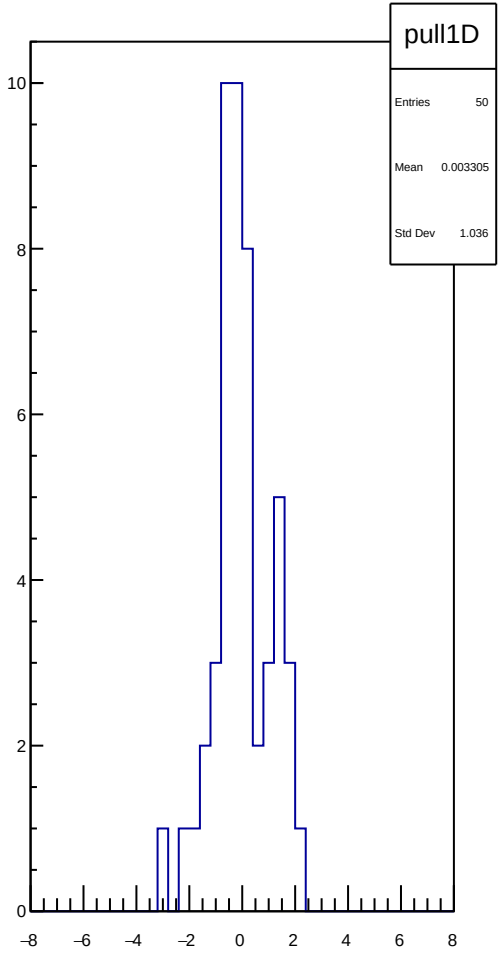

asym_at2_avg_correction_rms vs run
χ² / ndf 1.245e+04 / 49
p0 9727 ± 10.05
14000
13000
12000
11000
10000
9000
8000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

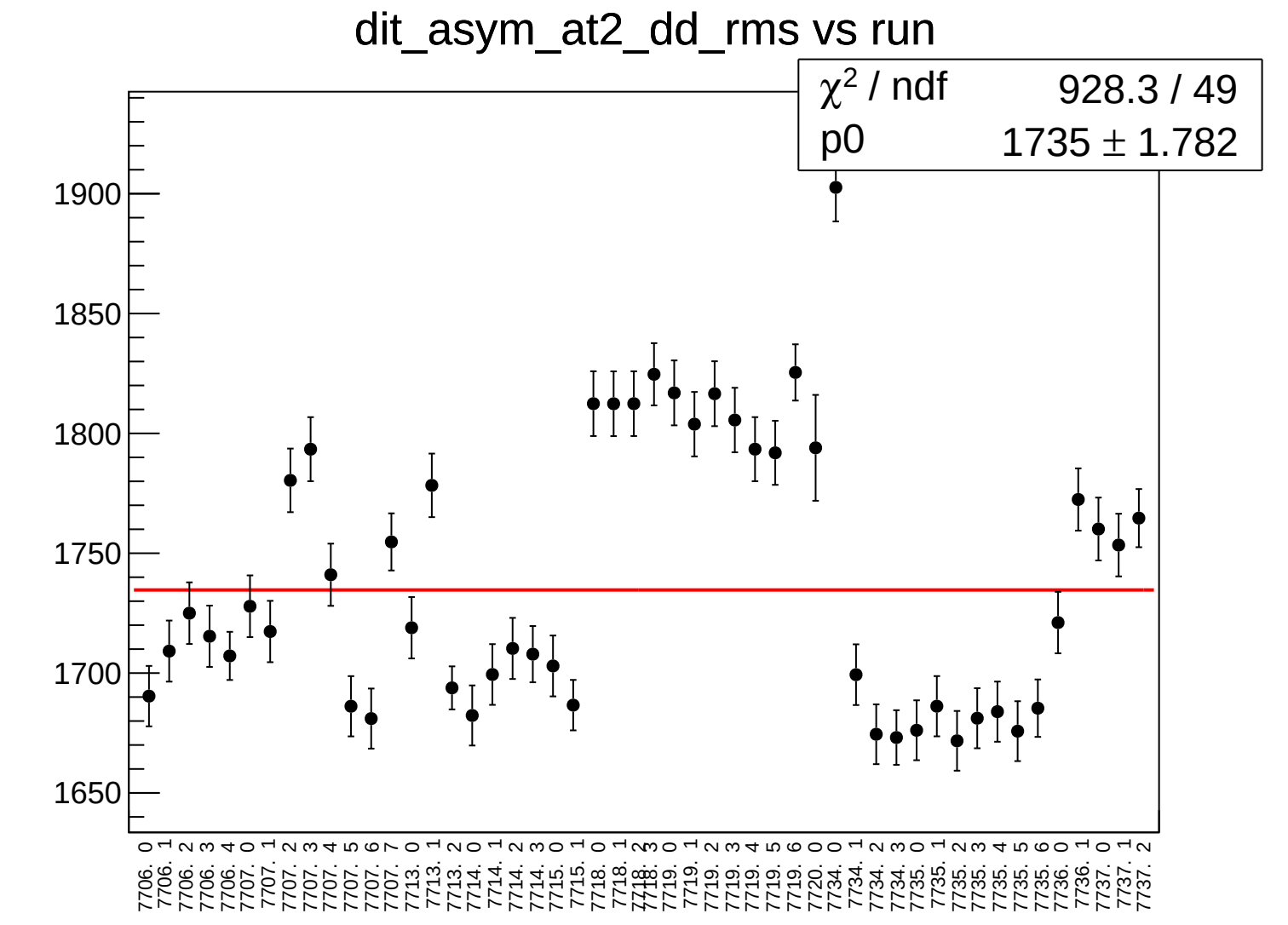

asym_at2_avg_mean vs run
×10^3
χ² / ndf 50.47 / 49
p0 −8034 ± 1.473e+04
pull
Entries 50
Mean −237.6
Std Dev 252

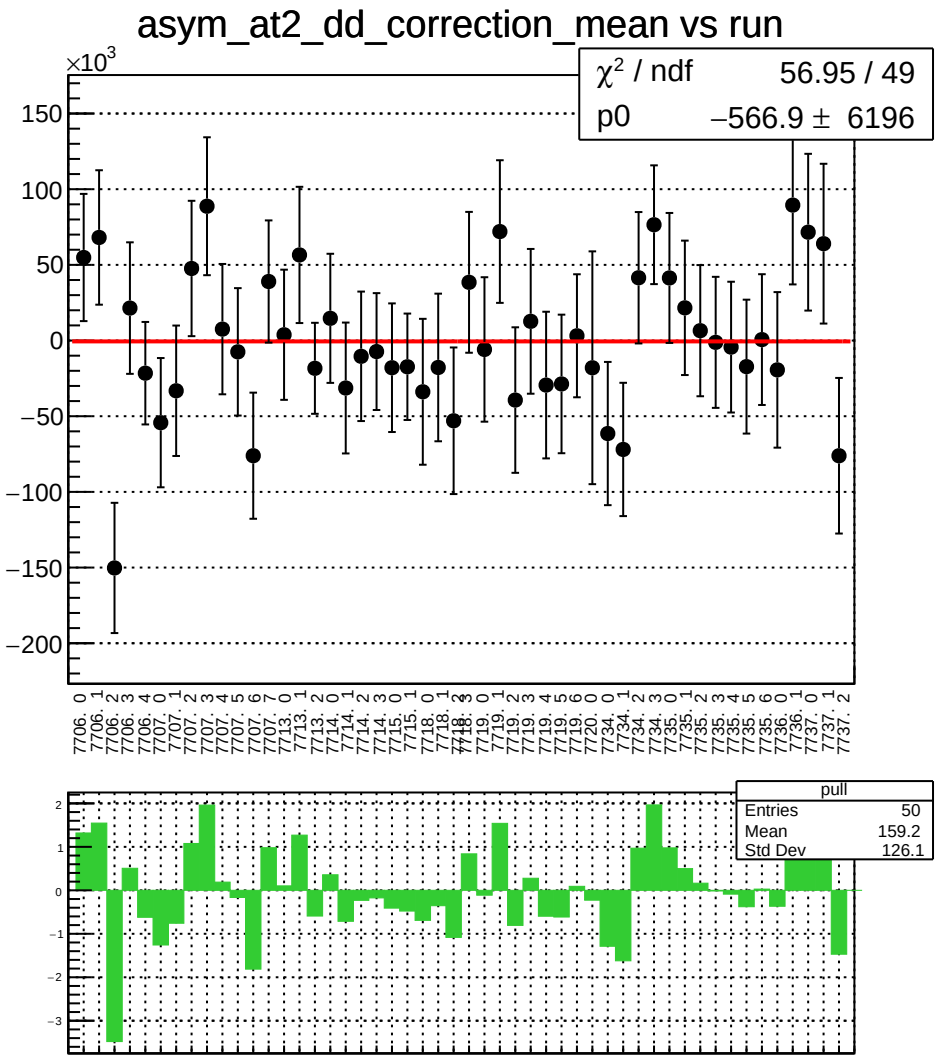

pull1D
Entries 50
Mean 0.009083
Std Dev 1.005


asym_at2_avg_rms vs run
χ² / ndf 1.313e+04 / 49
p0 1.008e+04 ± 10.42
16000
15000
14000
13000
12000
11000
10000
9000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_at2_dd_mean vs run
χ² / ndf 53.63 / 49
p0 86.39 ± 2520
pull
Entries 50
Mean −11.15
Std Dev 120.3


pull1D
Entries 50
Mean 0.003305
Std Dev 1.036


dit_asym_at2_dd_rms vs run
χ² / ndf 928.3 / 49
p0 1735 ± 1.782
1900
1850
1800
1750
1700
1650
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_at2_dd_correction_mean vs run
×10^3
χ² / ndf 56.95 / 49
p0 −566.9 ± 6196
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
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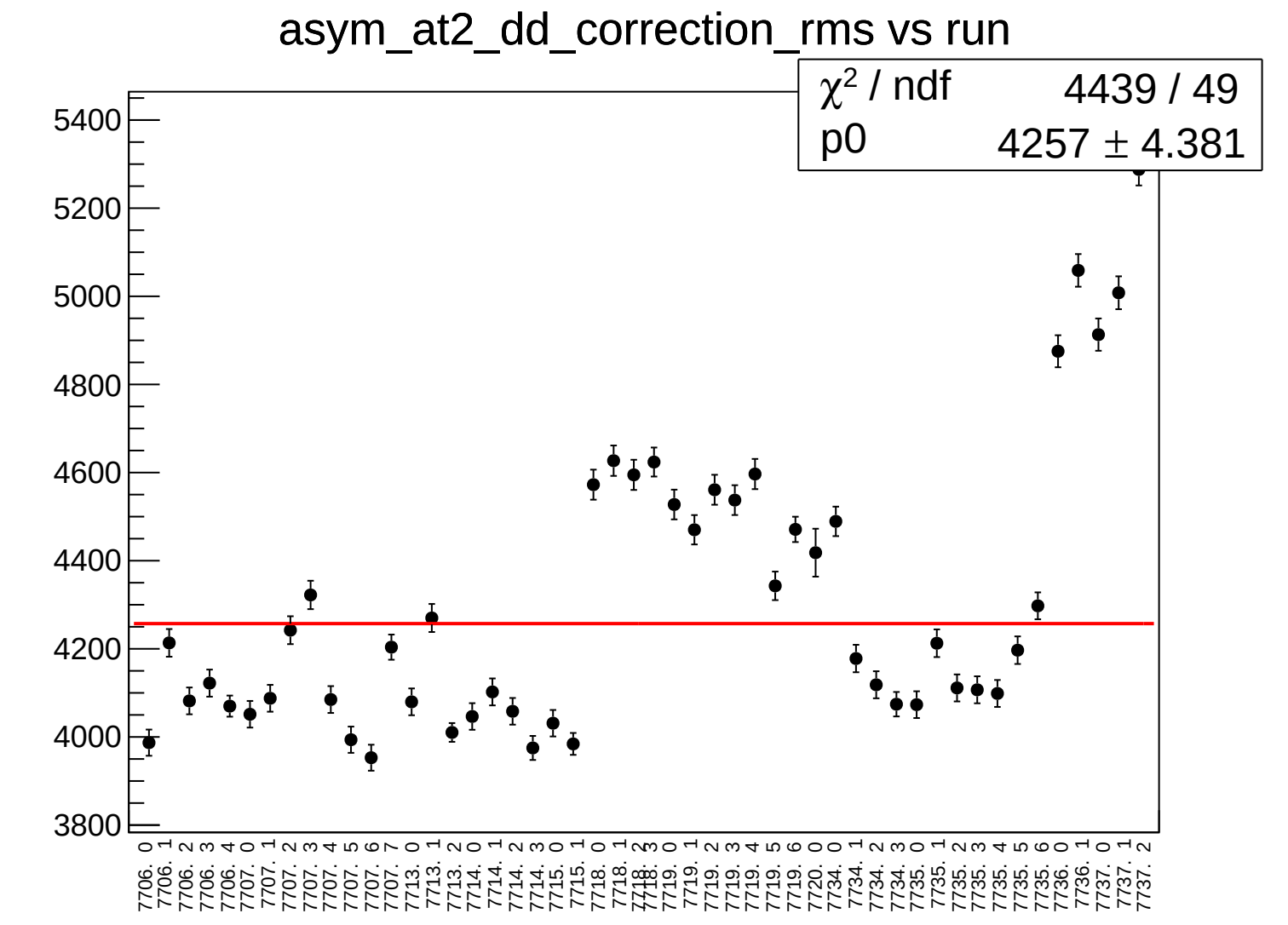
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 159.2
Std Dev 126.1
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.01213
Std Dev 1.067
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_correction_rms vs run
χ² / ndf 4439 / 49
p0 4257 ± 4.381
5400
5200
5000
4800
4600
4400
4200
4000
3800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
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7707. 3
7707. 4
7707. 5
7707. 6
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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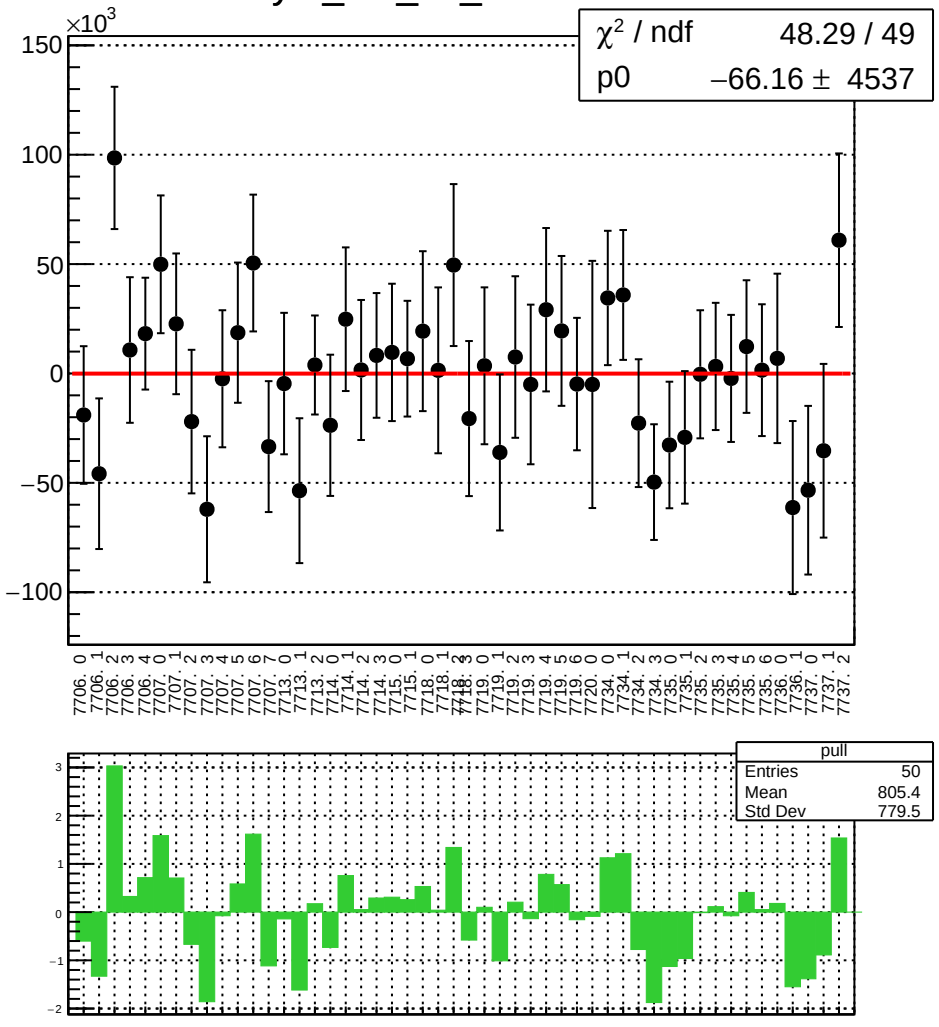
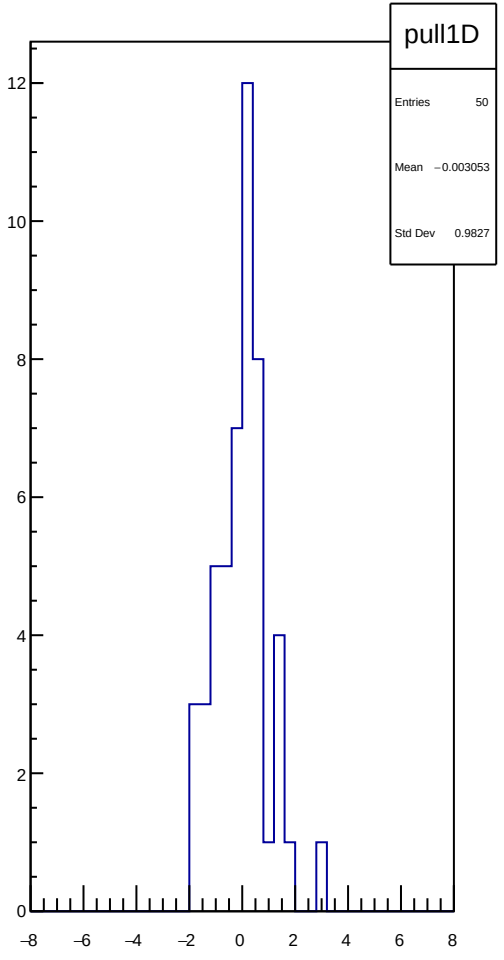
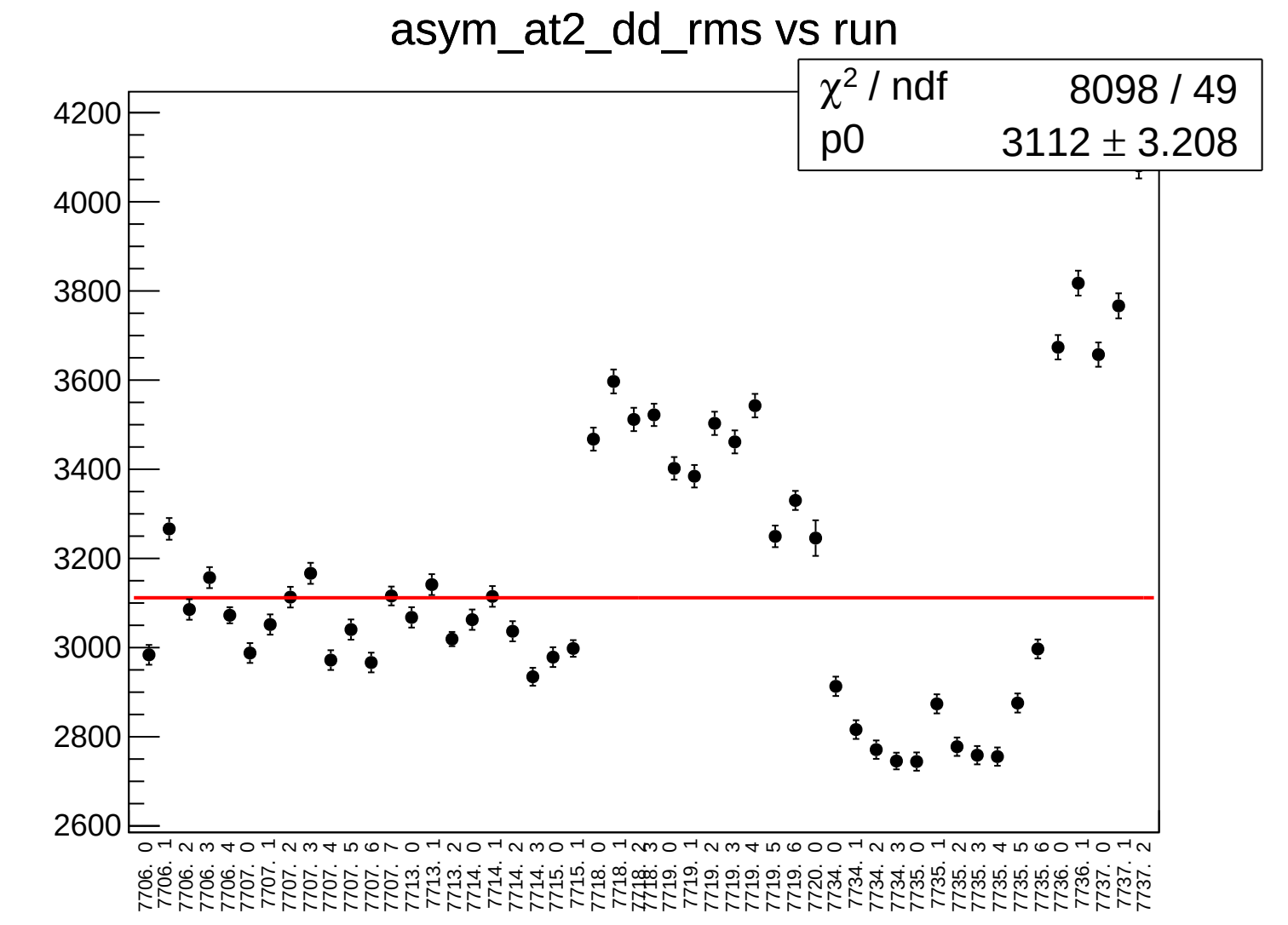
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_at2_dd_mean vs run
×10^3
χ² / ndf 48.29 / 49
p0 −66.16 ± 4537
pull
Entries 50
Mean 805.4
Std Dev 779.5


pull1D
Entries 50
Mean −0.003053
Std Dev 0.9827


asym_at2_dd_rms vs run
χ² / ndf 8098 / 49
p0 3112 ± 3.208
4200
4000
3800
3600
3400
3200
3000
2800
2600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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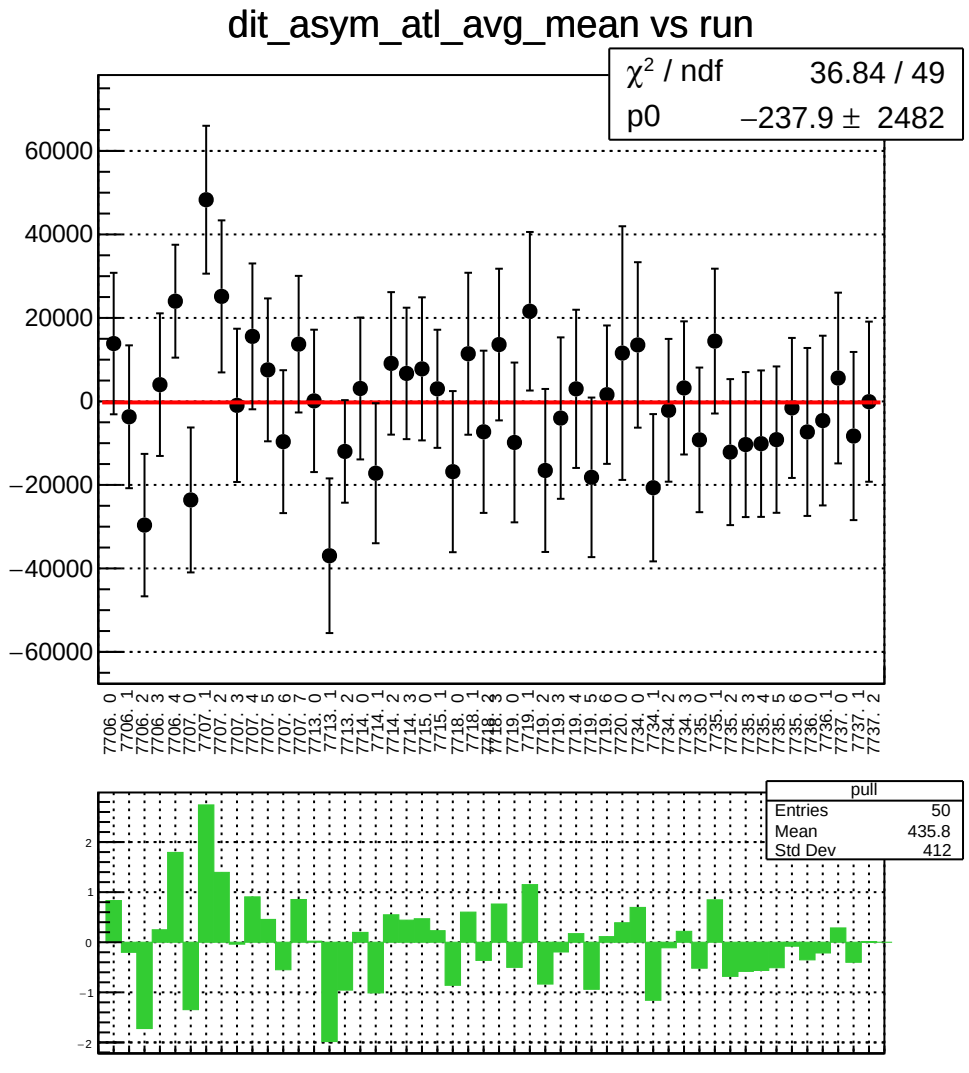
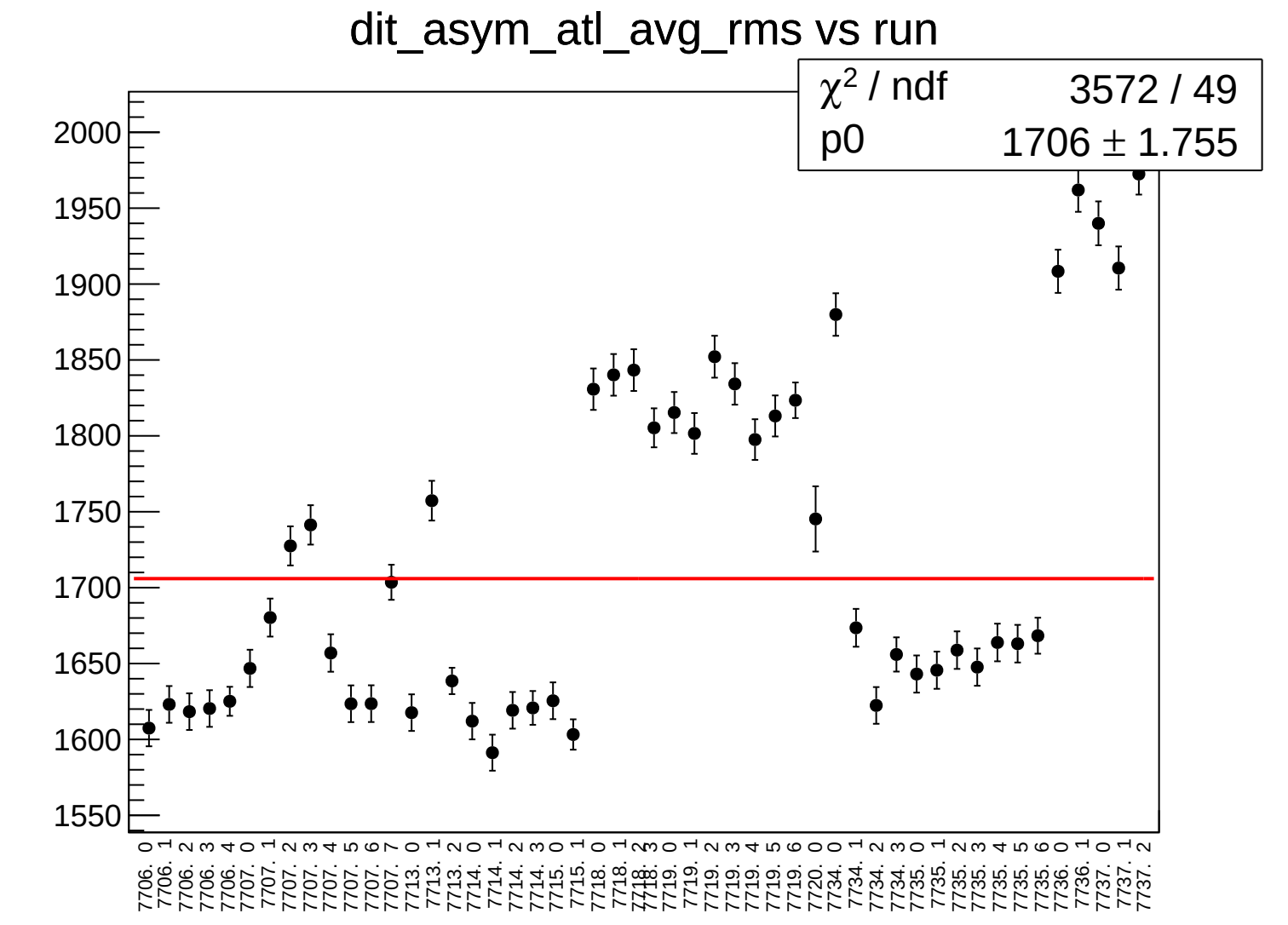
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_atl_avg_mean vs run
χ² / ndf 36.84 / 49
p0 −237.9 ± 2482
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 435.8
Std Dev 412
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.005828
Std Dev 0.8584
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_avg_rms vs run
χ² / ndf 3572 / 49
p0 1706 ± 1.755
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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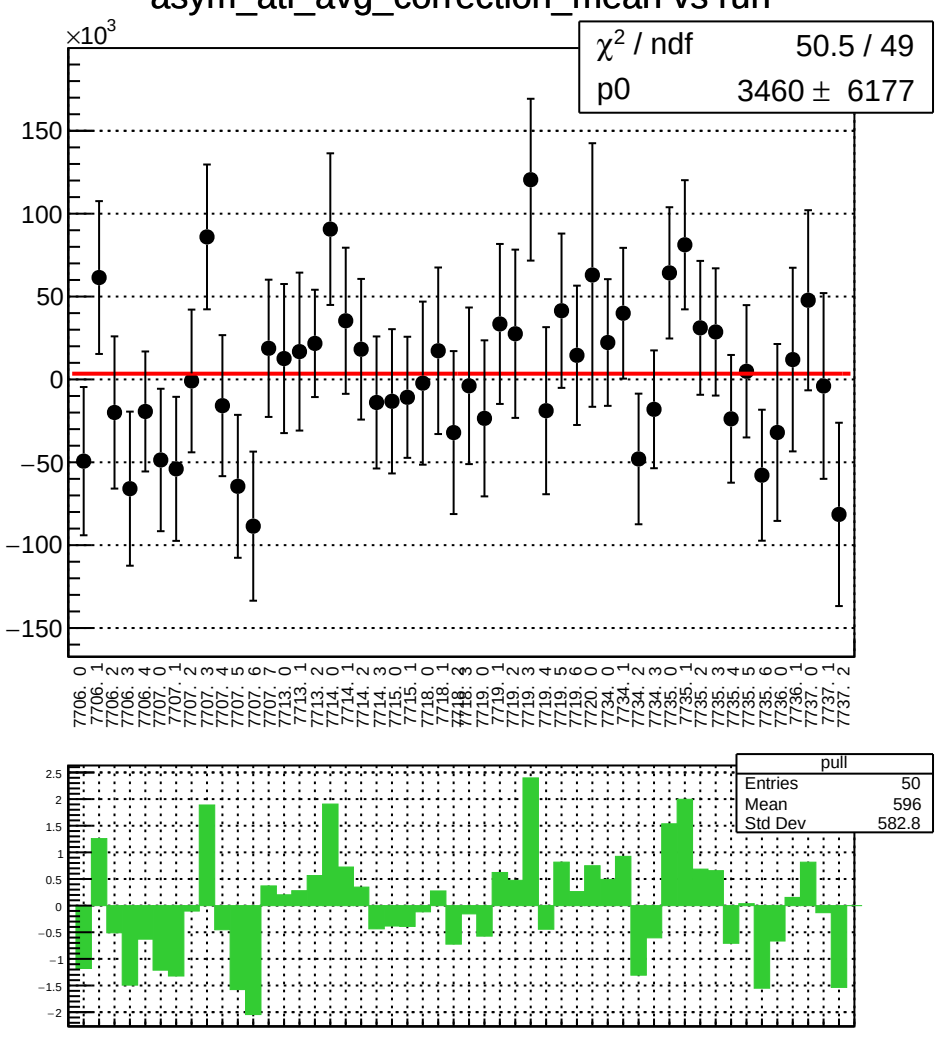
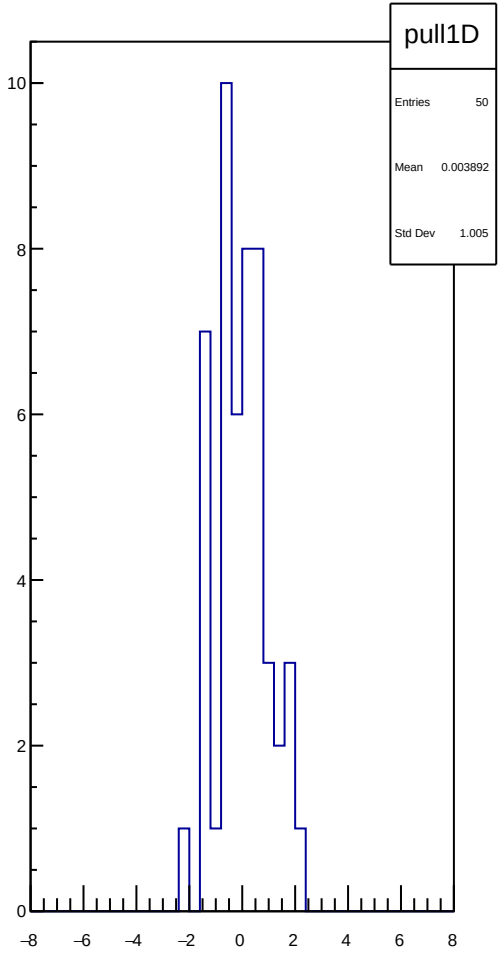
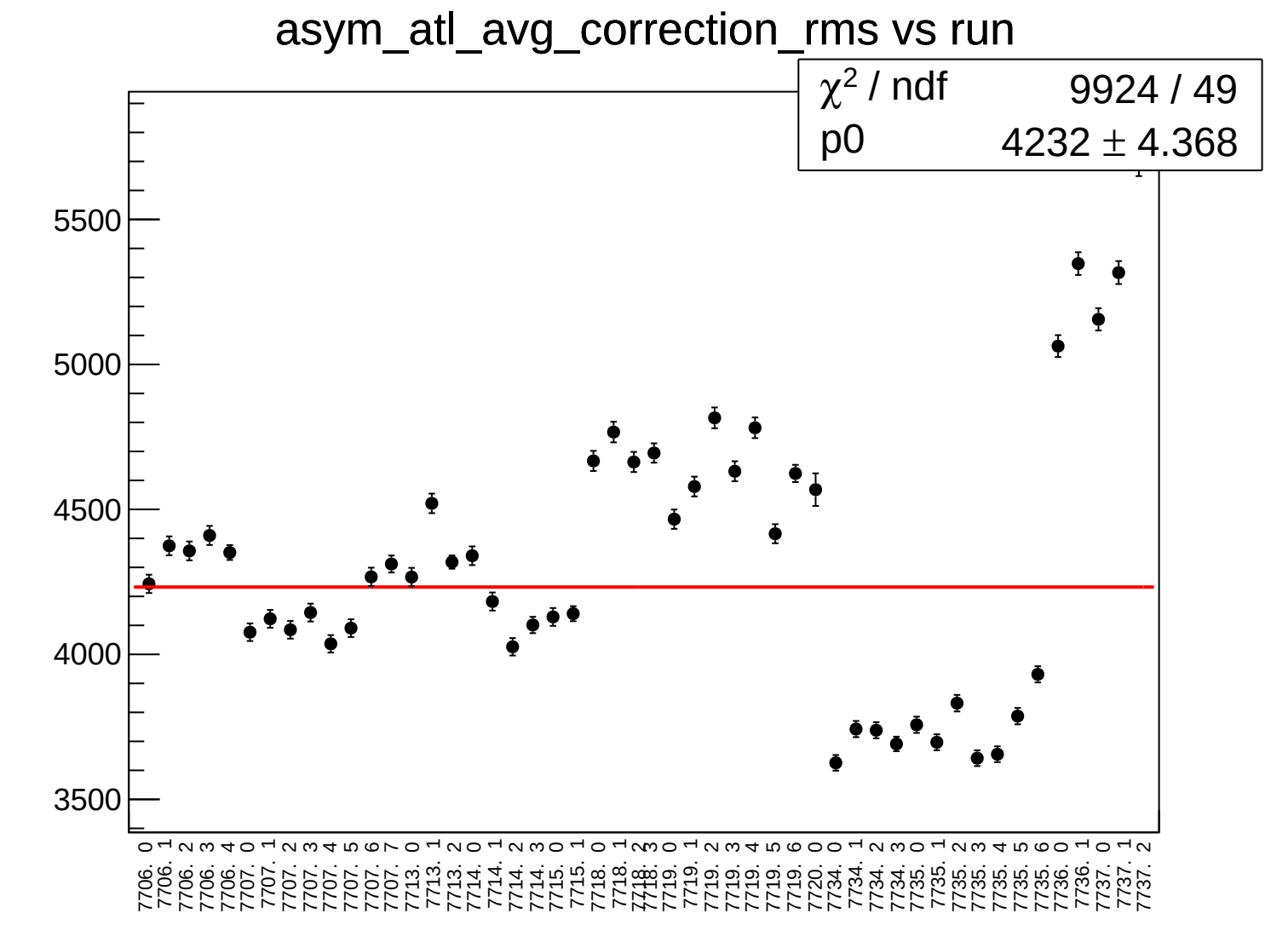
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 50.5 / 49
p0 3460 ± 6177
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 596
Std Dev 582.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.003892
Std Dev 1.005
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_correction_rms vs run
χ^2 / ndf 9924 / 49
p0 4232 ± 4.368
5500
5000
4500
4000
3500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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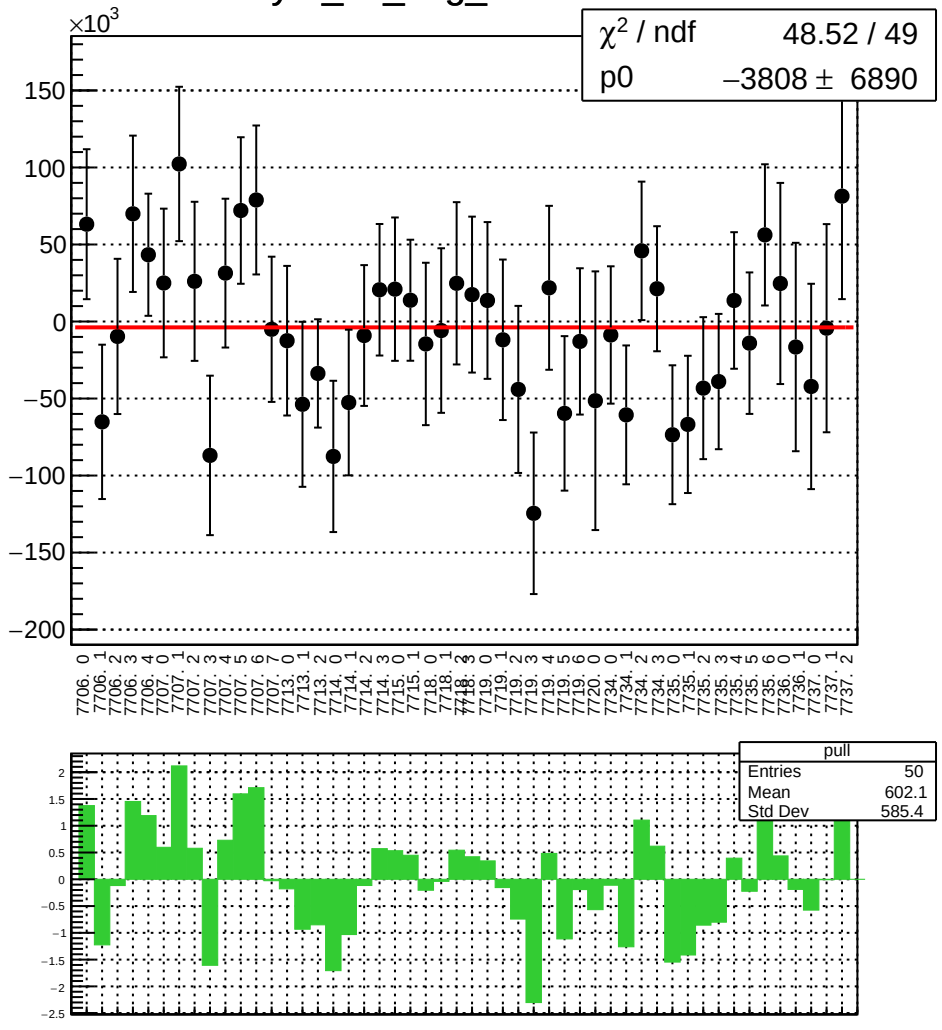
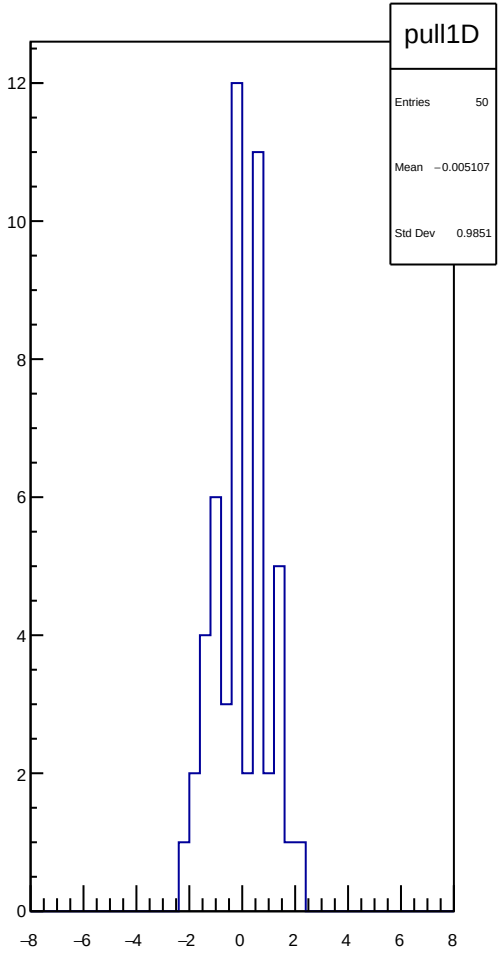
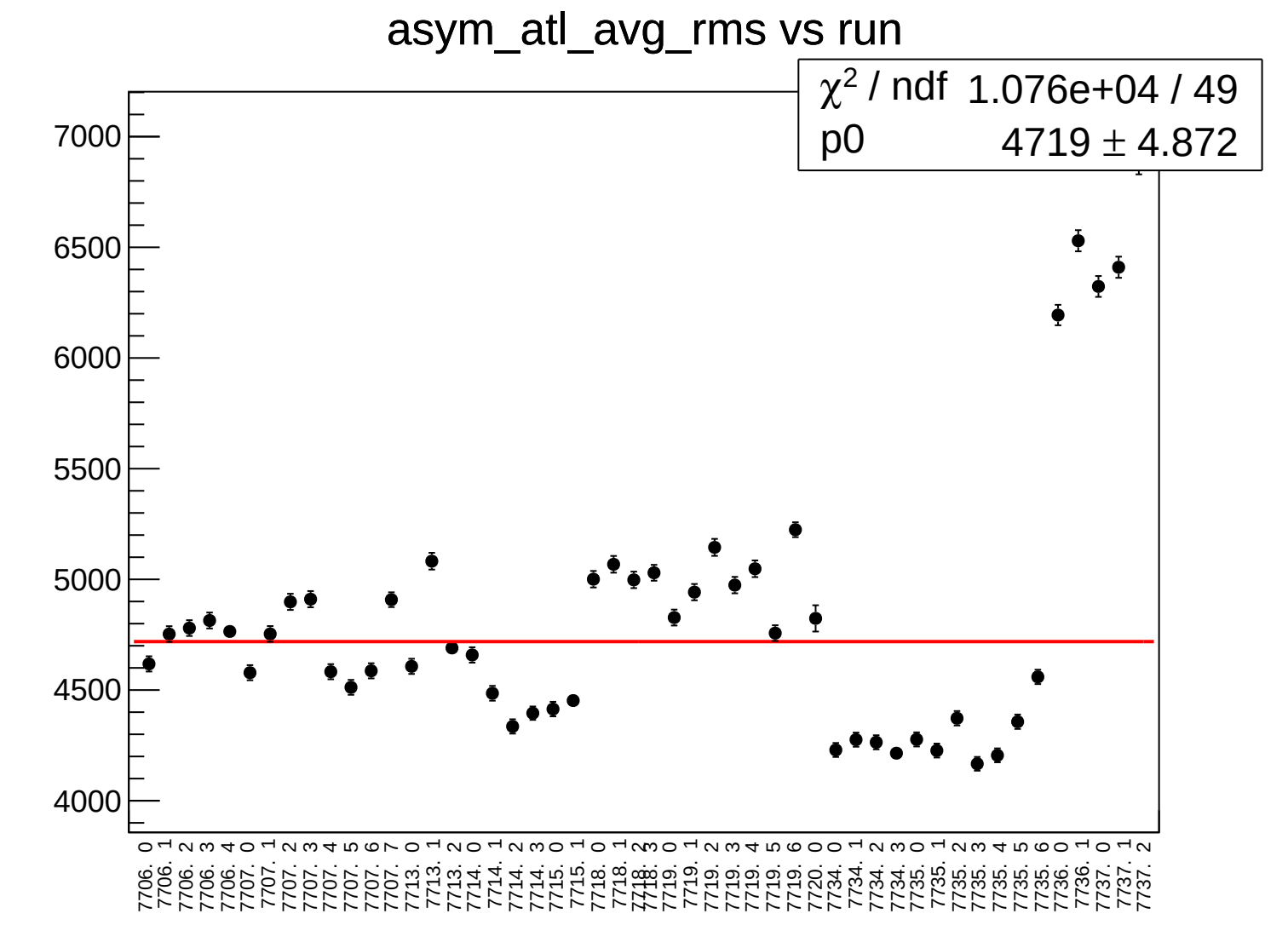
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl_avg_mean vs run
×10^3
χ² / ndf 48.52 / 49
p0 −3808 ± 6890
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 602.1
Std Dev 585.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean −0.005107
Std Dev 0.9851
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_rms vs run
χ² / ndf 1.076e+04 / 49
p0 4719 ± 4.872
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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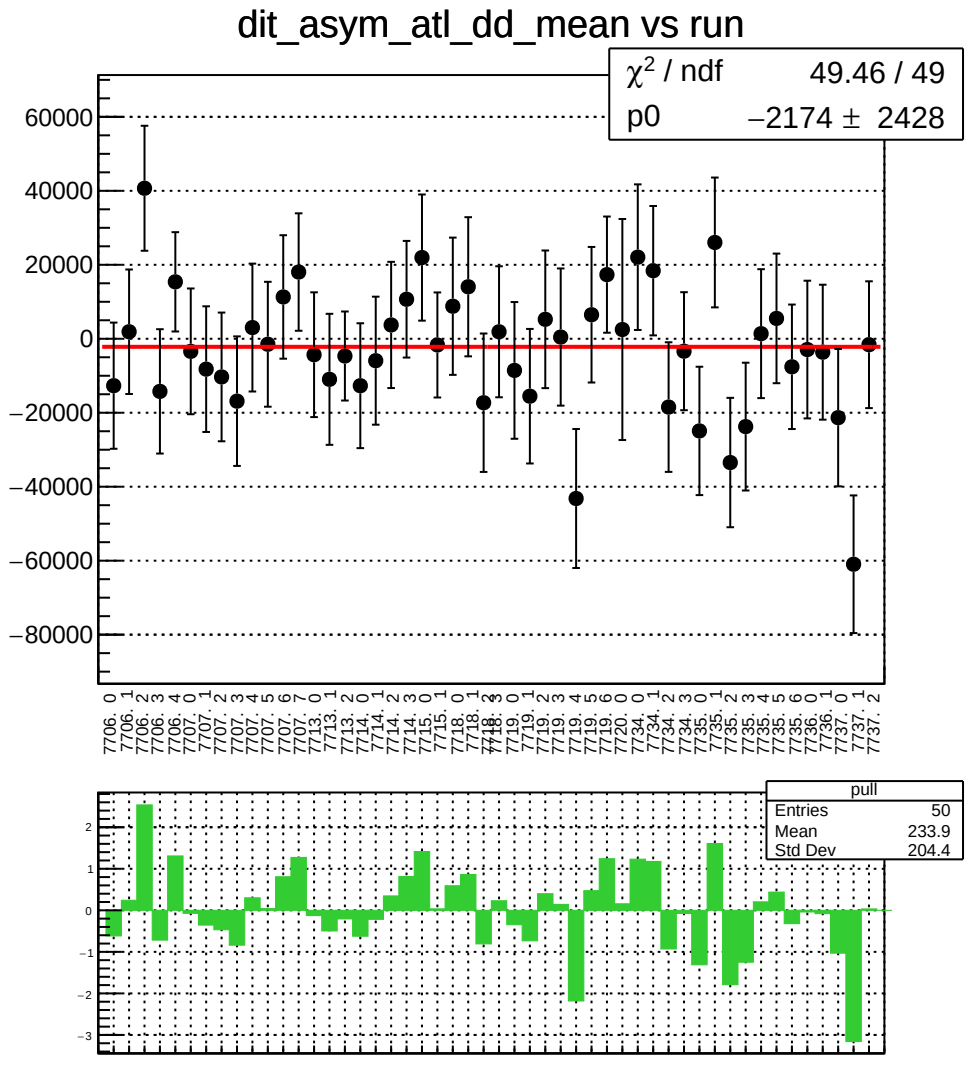
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_atl_dd_mean vs run
χ² / ndf 49.46 / 49
p0 −2174 ± 2428
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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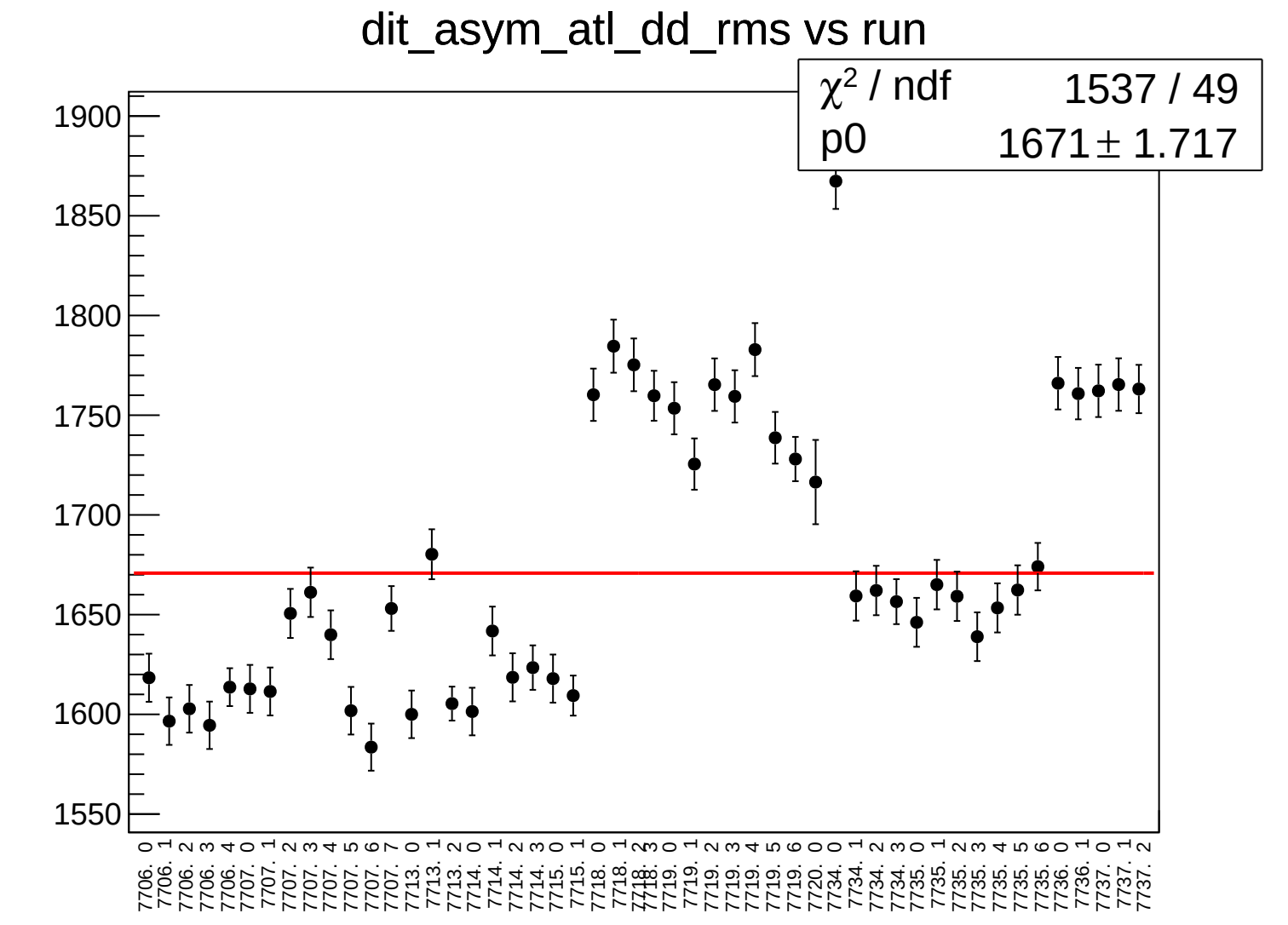
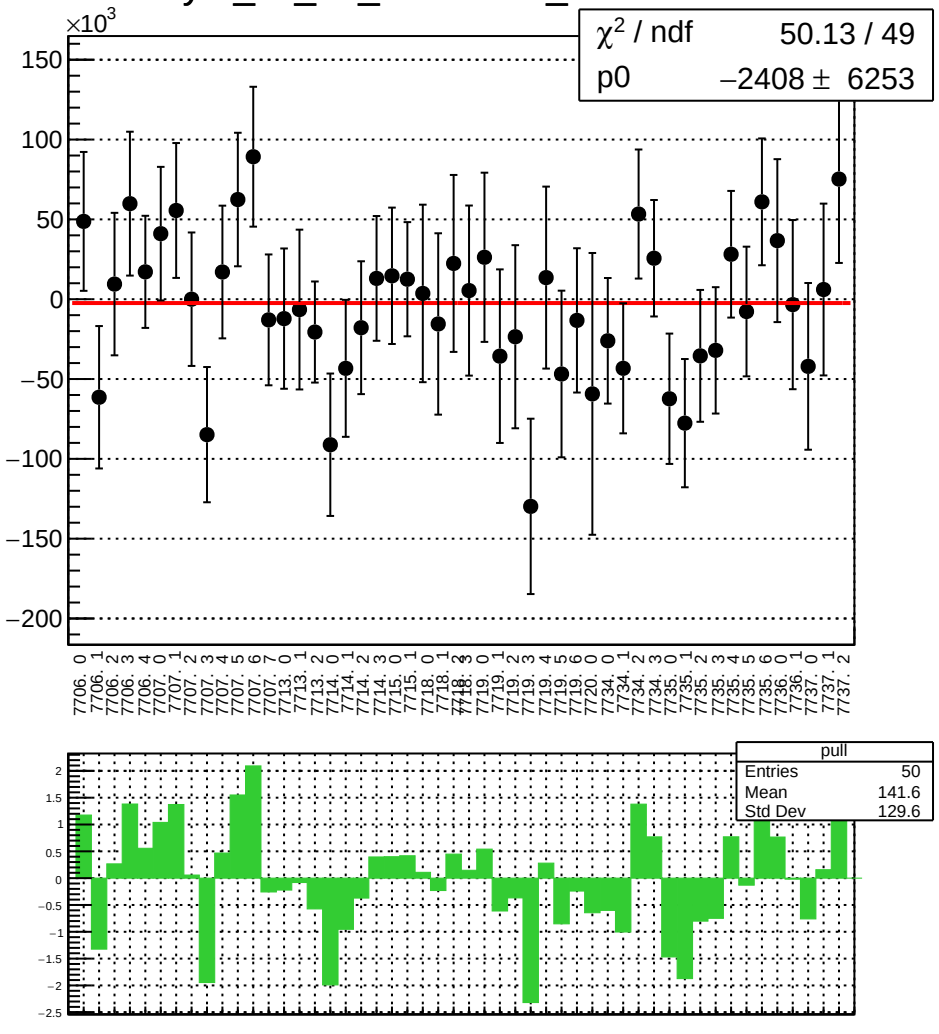
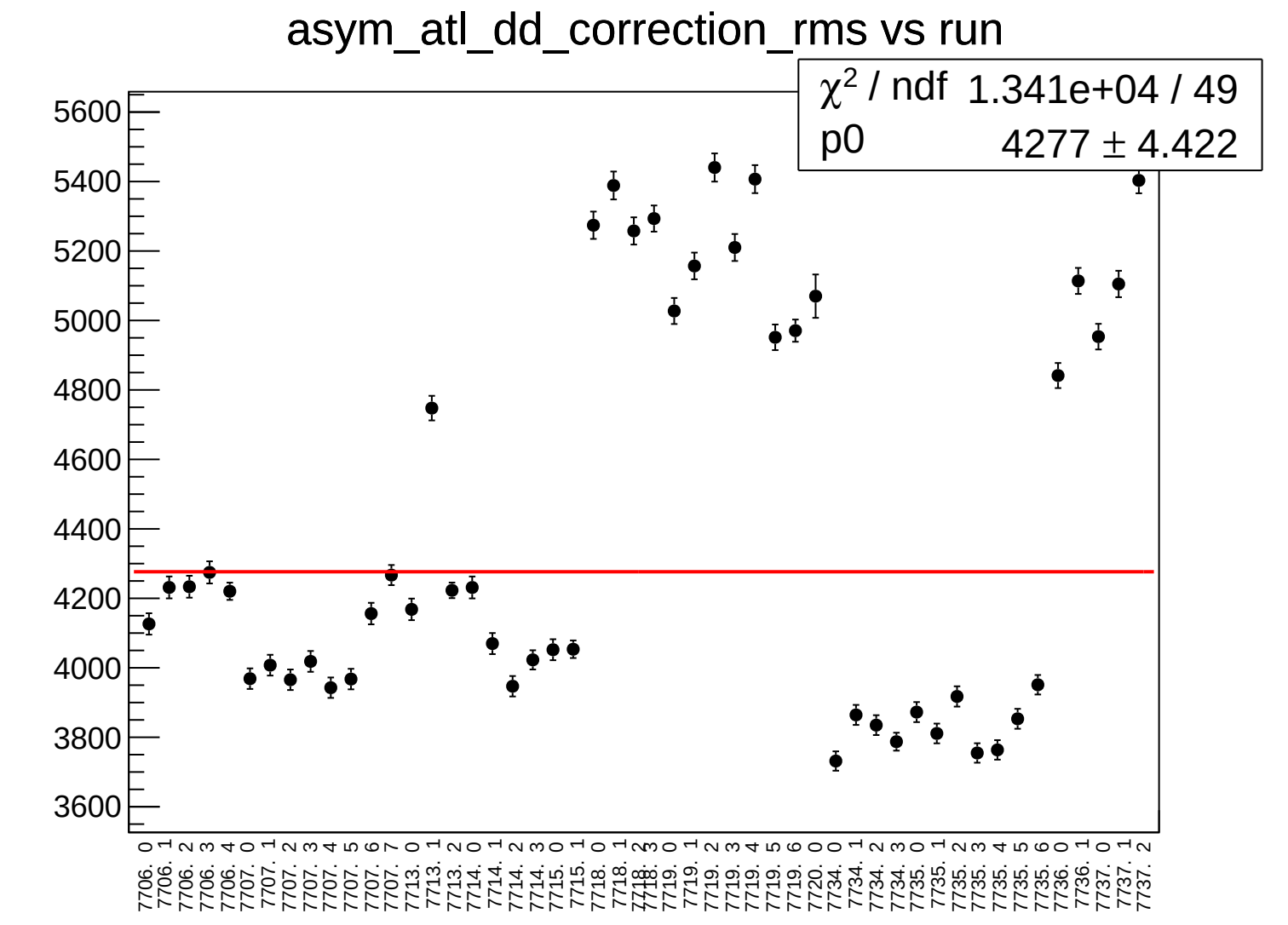
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 233.9
Std Dev 204.4
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.01759
Std Dev 0.9945
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl_dd_rms vs run
χ² / ndf 1537 / 49
p0 1671 ± 1.717
1900
1850
1800
1750
1700
1650
1600
1550
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 50.13 / 49
p0 −2408 ± 6253
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 141.6
Std Dev 129.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.01548
Std Dev 1.001
9
8
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 1.341e+04 / 49
p0 4277 ± 4.422
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
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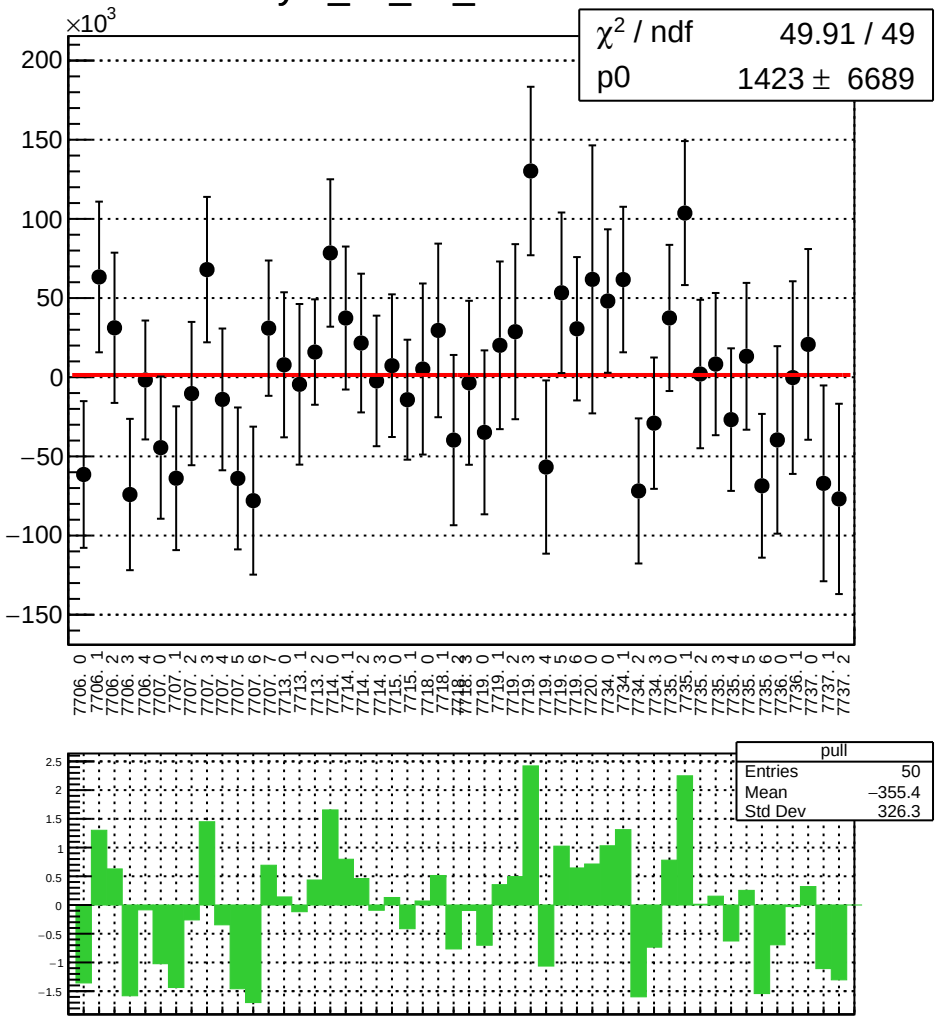
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl_dd_mean vs run
×10^3
χ² / ndf 49.91 / 49
p0 1423 ± 6689
200
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7714. 3
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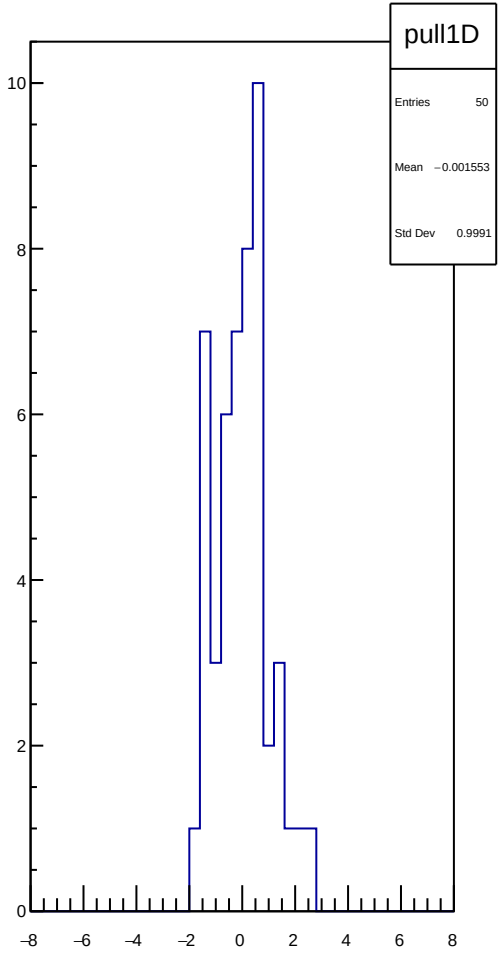
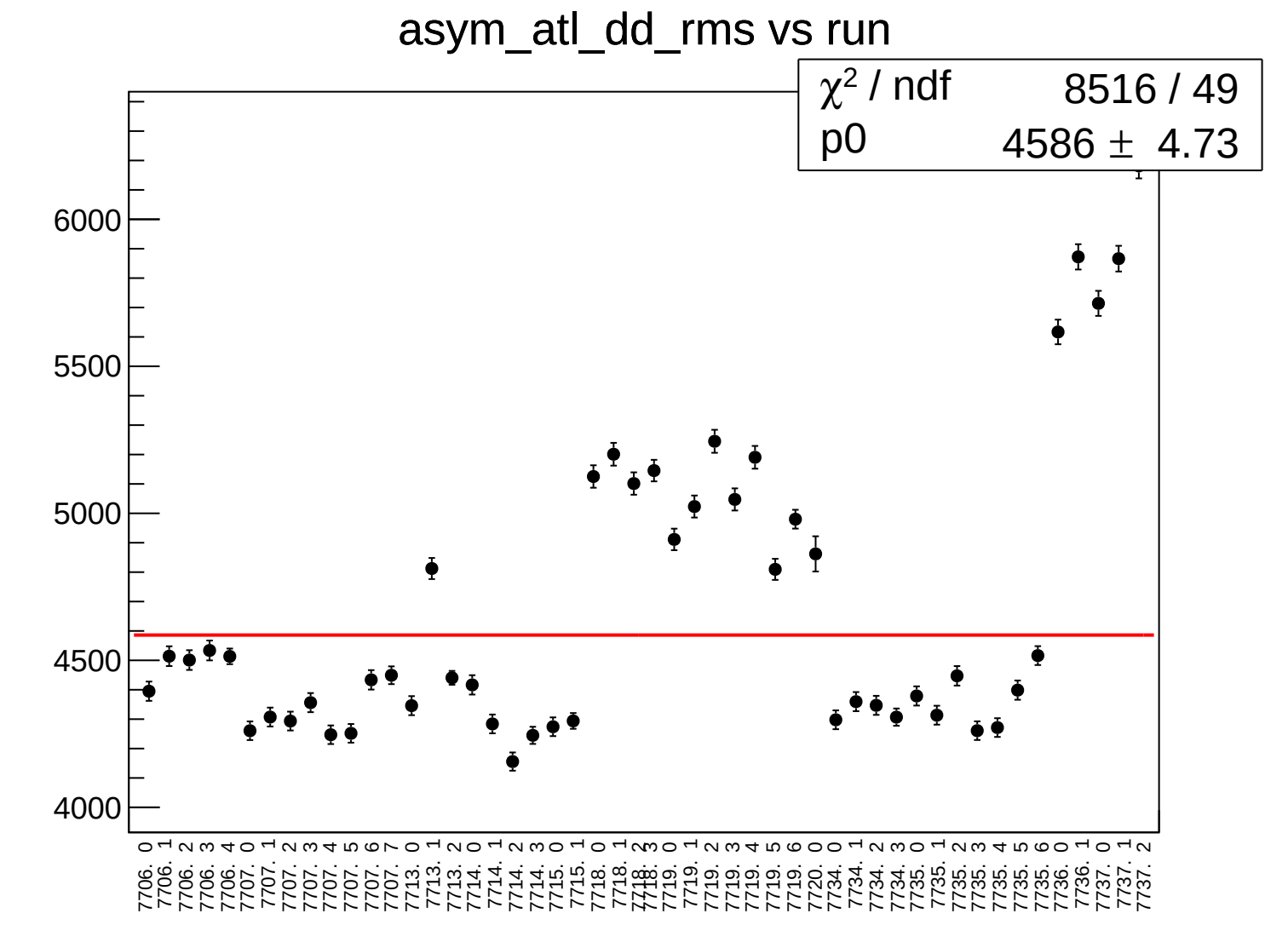
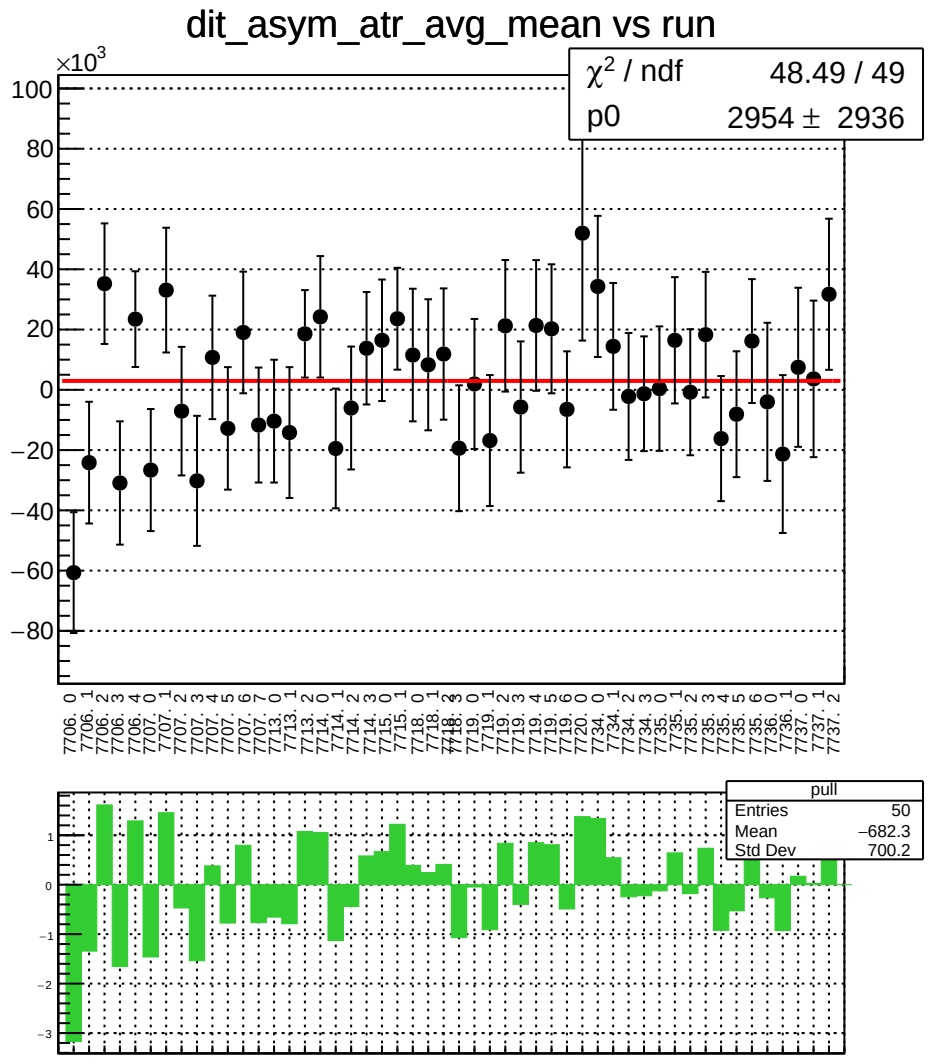
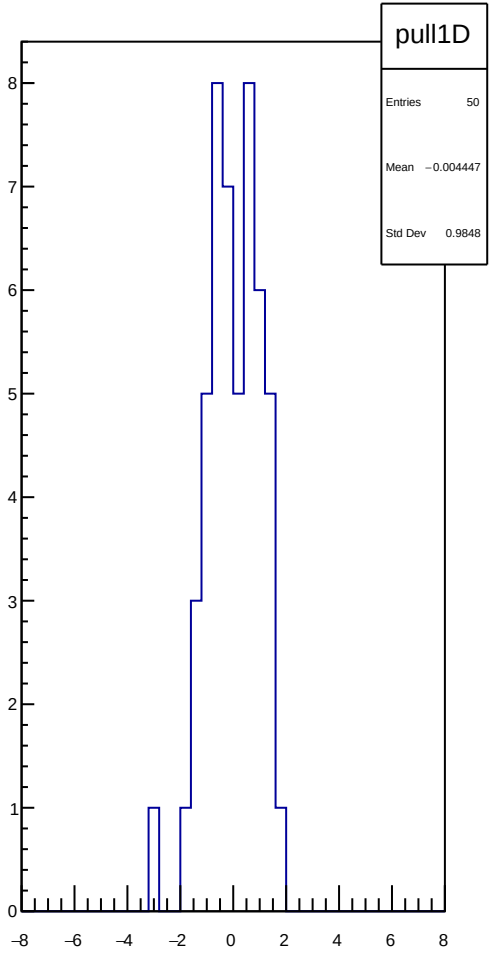
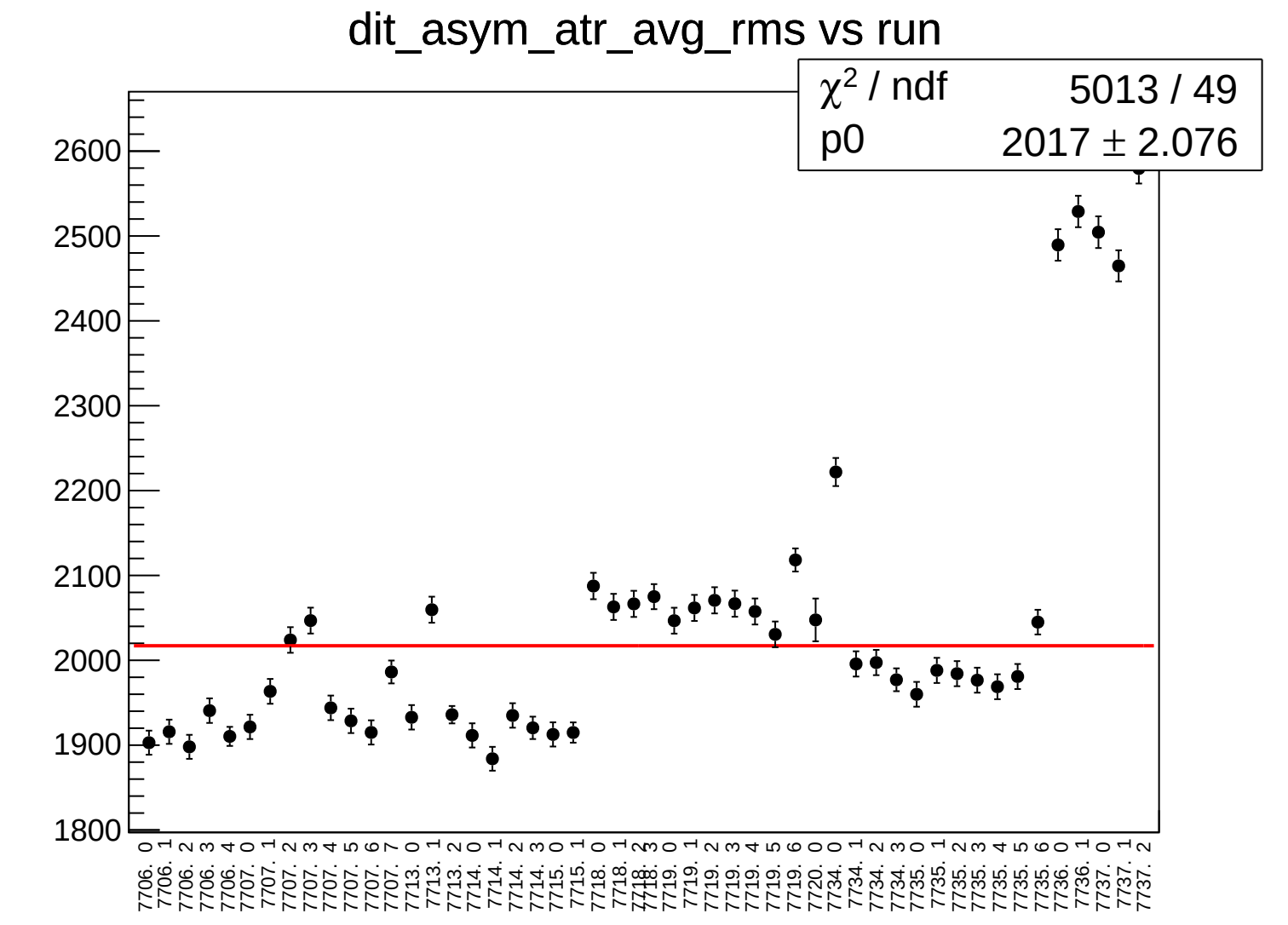
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −355.4
Std Dev 326.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

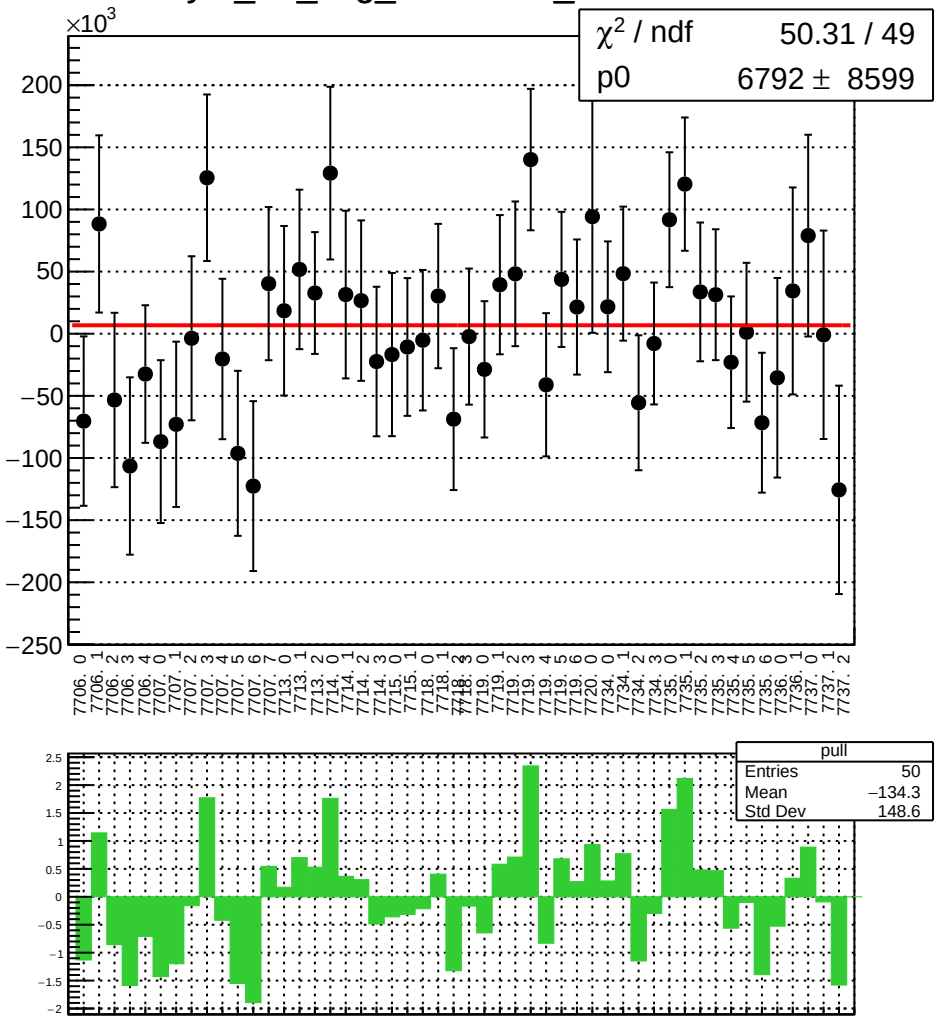

pull1D
Entries 50
Mean −0.001553
Std Dev 0.9991
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

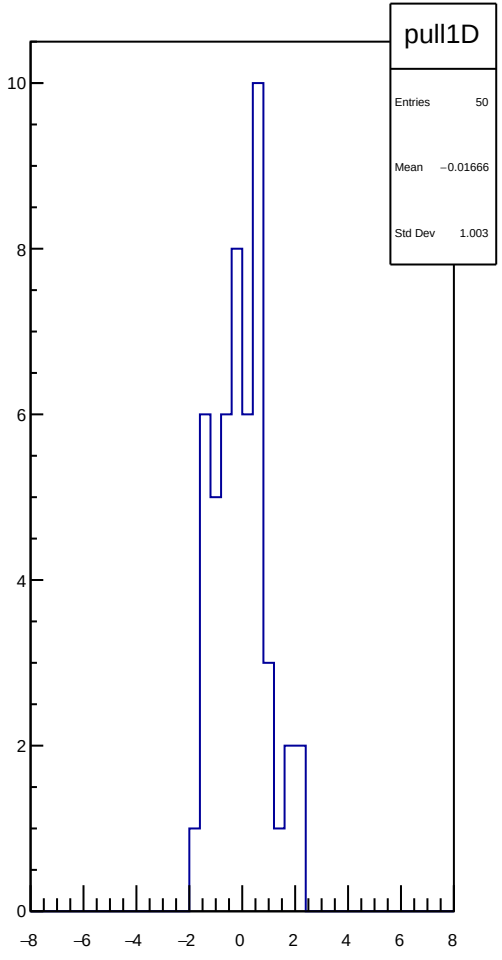

asym_atl_dd_rms vs run
χ² / ndf 8516 / 49
p0 4586 ± 4.73
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_atr_avg_mean vs run
×10^3
χ² / ndf 48.49 / 49
p0 2954 ± 2936
pull
Entries 50
Mean −682.3
Std Dev 700.2

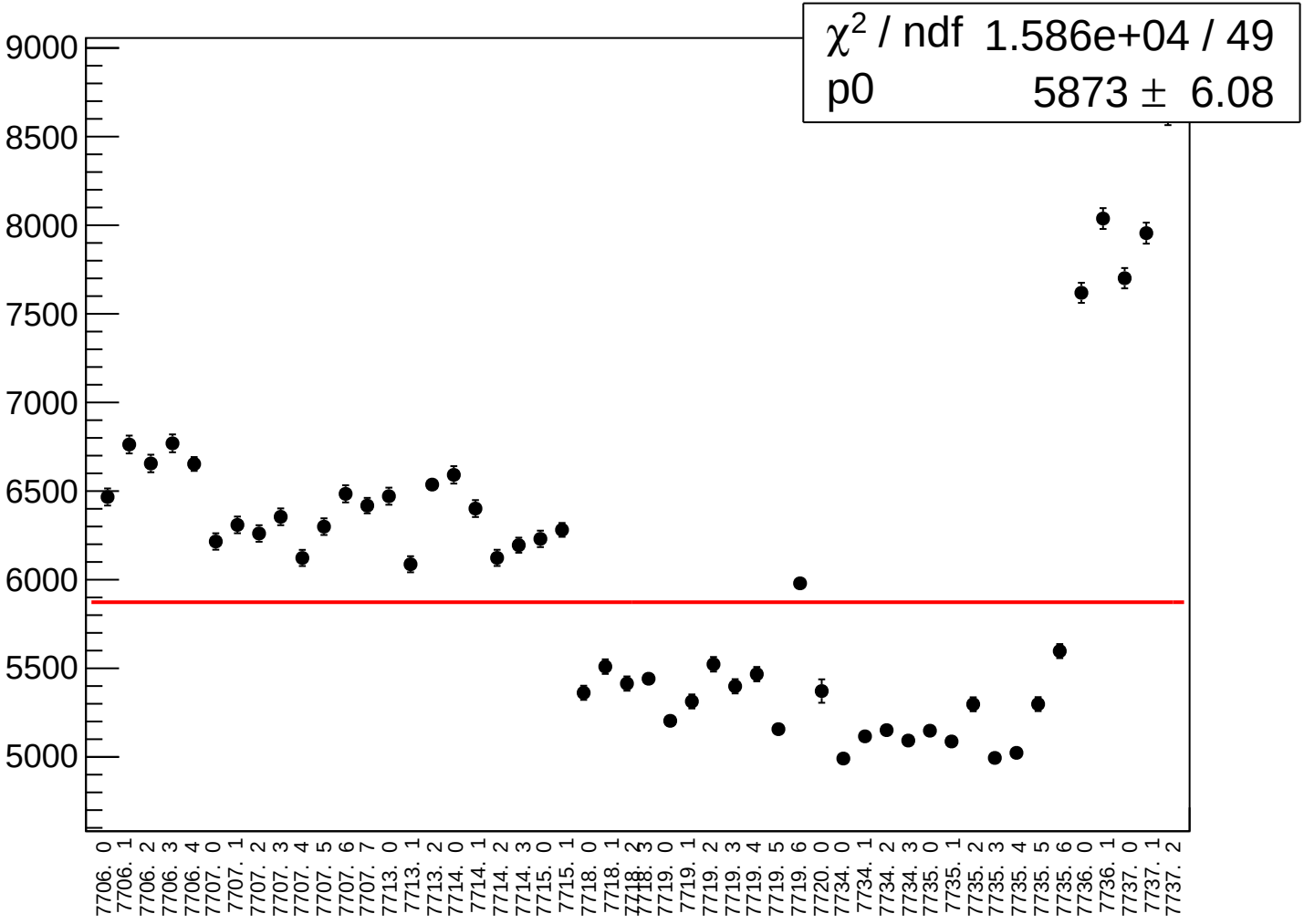

pull1D
Entries 50
Mean −0.004447
Std Dev 0.9848

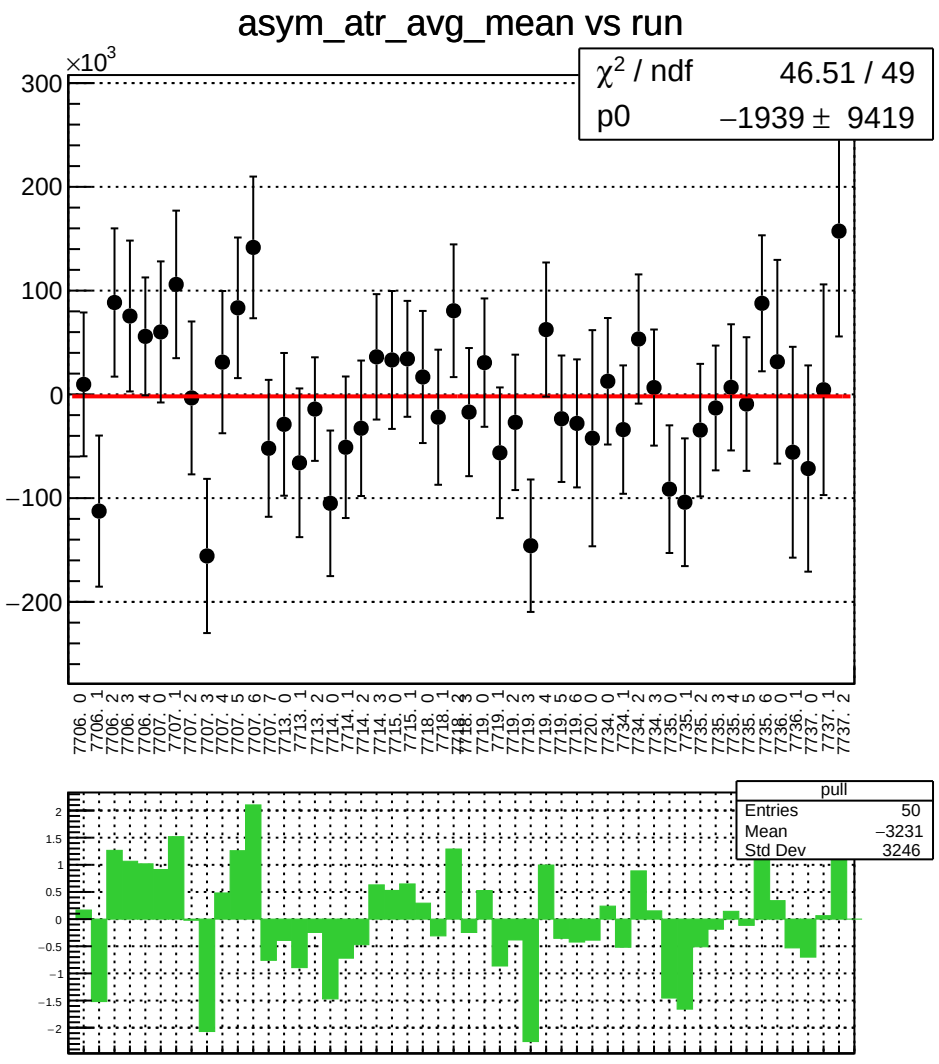

dit_asym_atr_avg_rms vs run
χ² / ndf 5013 / 49
p0 2017 ± 2.076
2600
2500
2400
2300
2200
2100
2000
1900
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

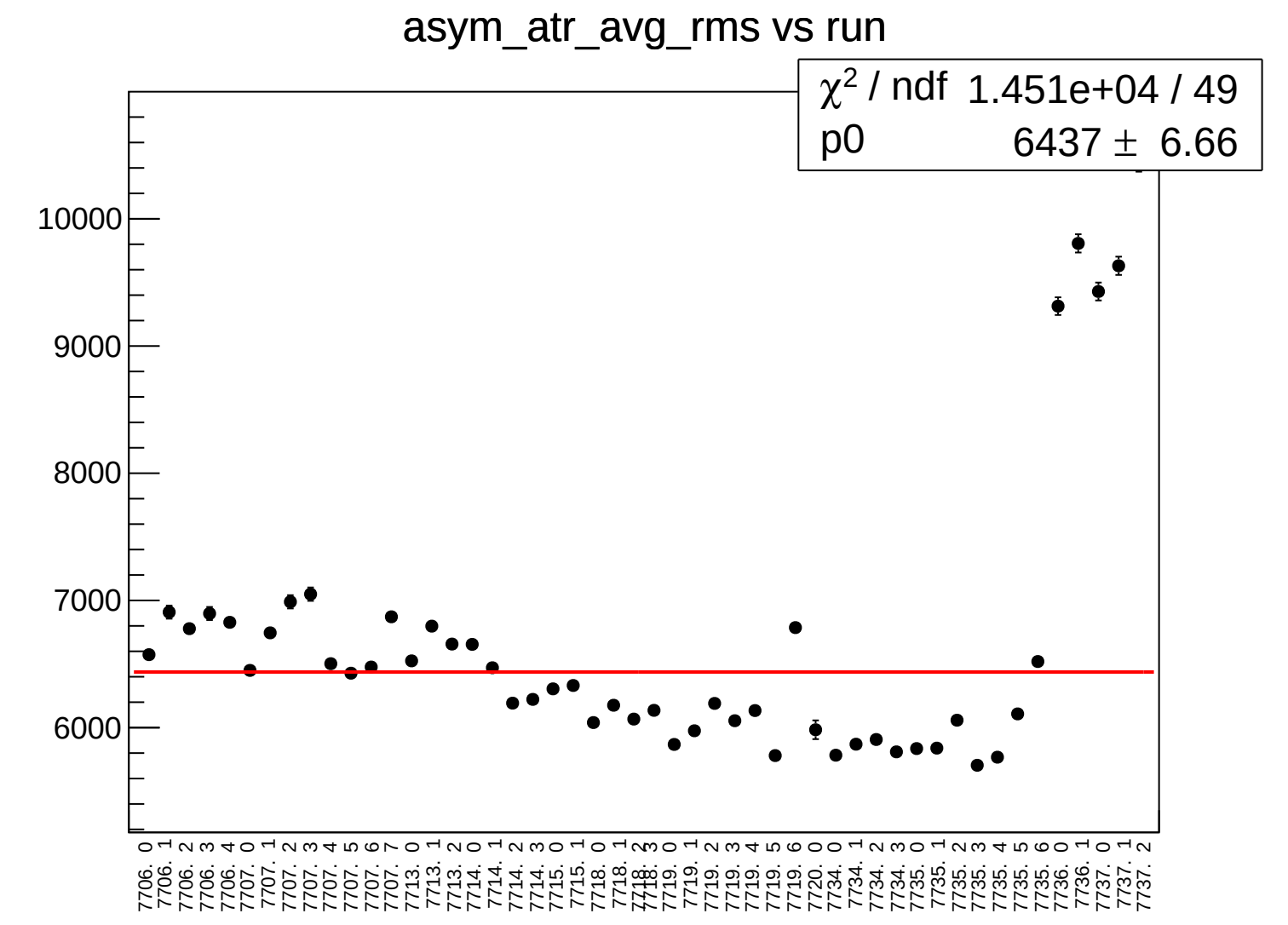

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 50.31 / 49
p0 6792 ± 8599
200
150
100
50
0
−50
−100
−150
−200
−250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −134.3
Std Dev 148.6
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

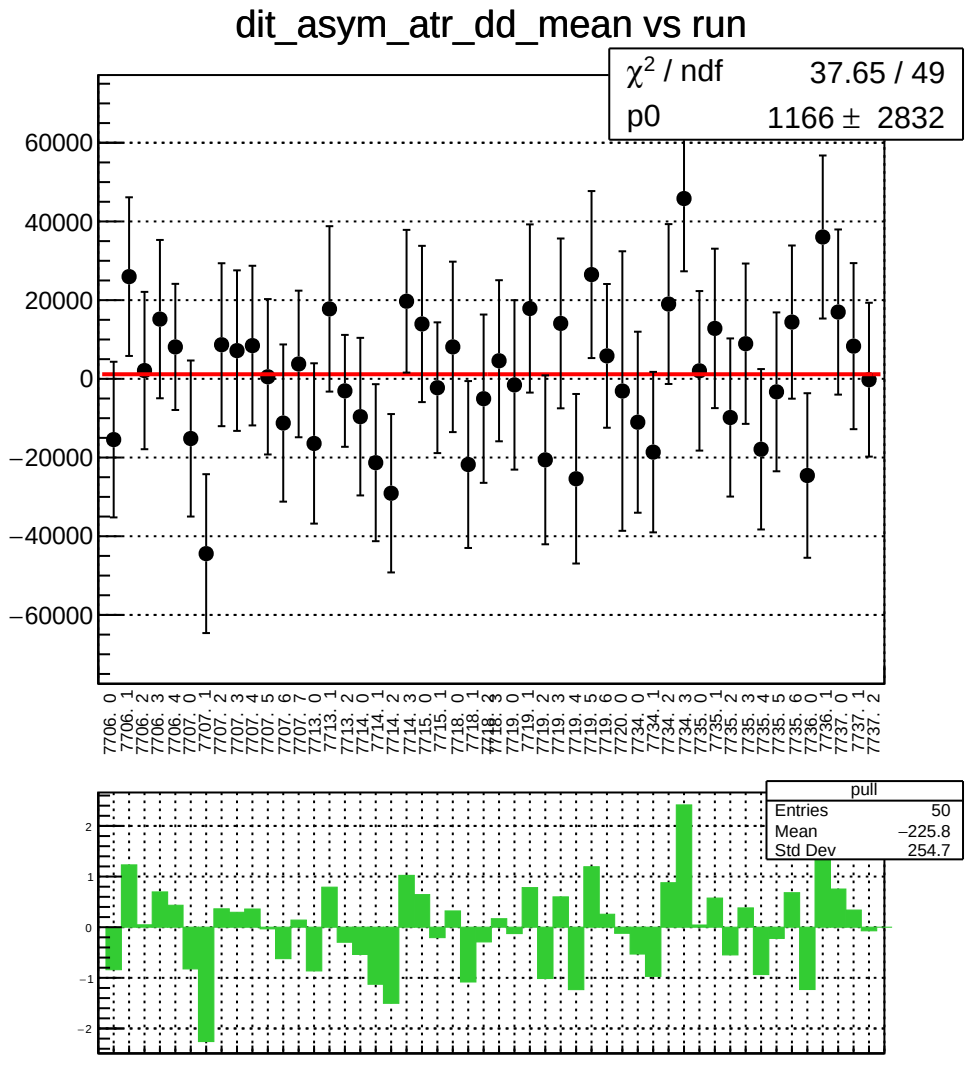

pull1D
Entries 50
Mean −0.01666
Std Dev 1.003
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

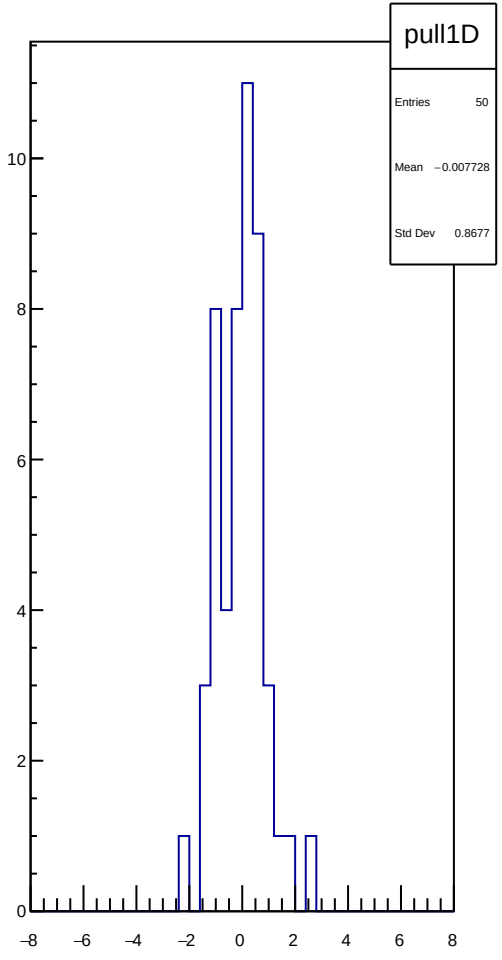
asym_atr_avg_correction_rms vs run

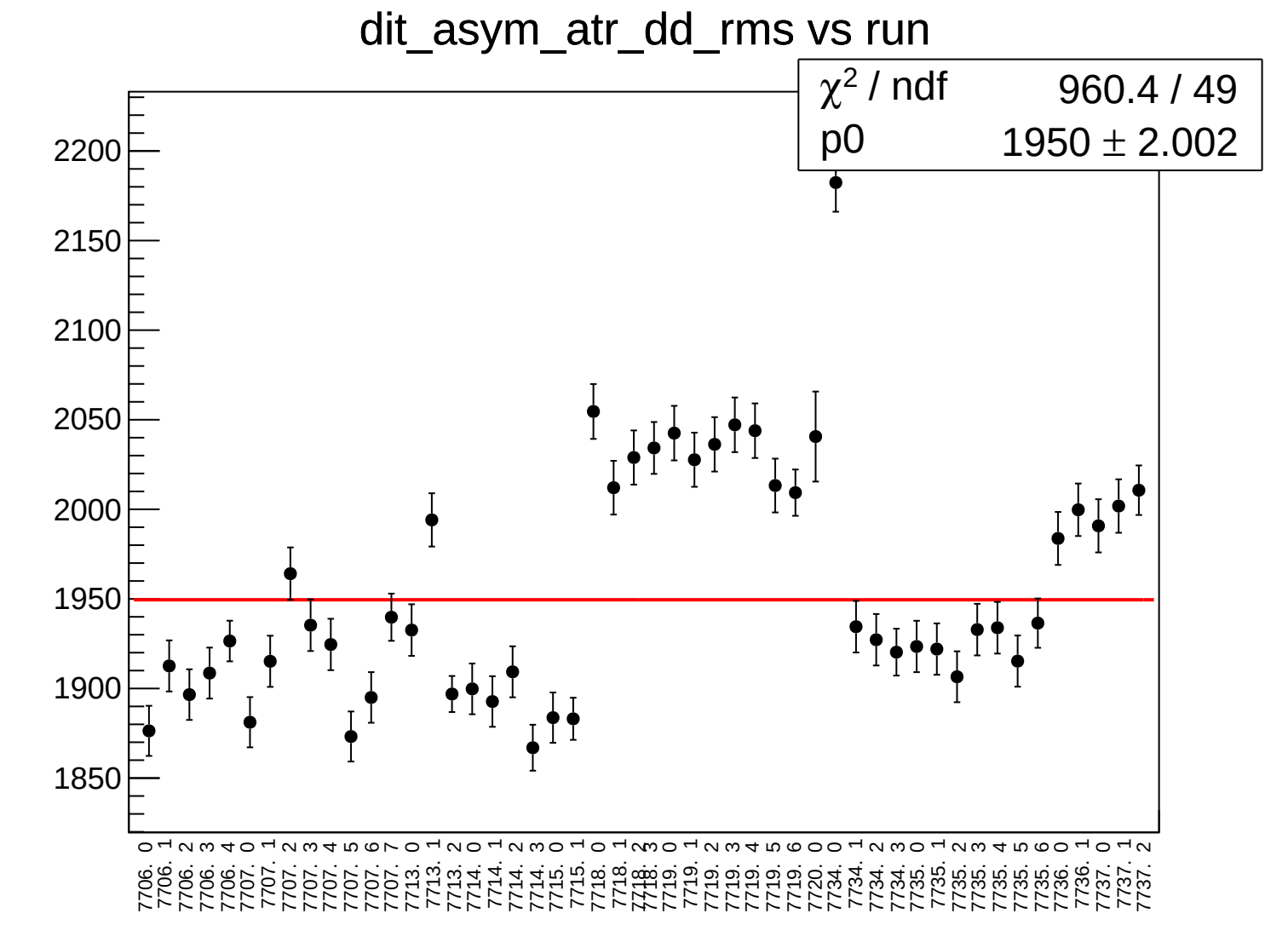


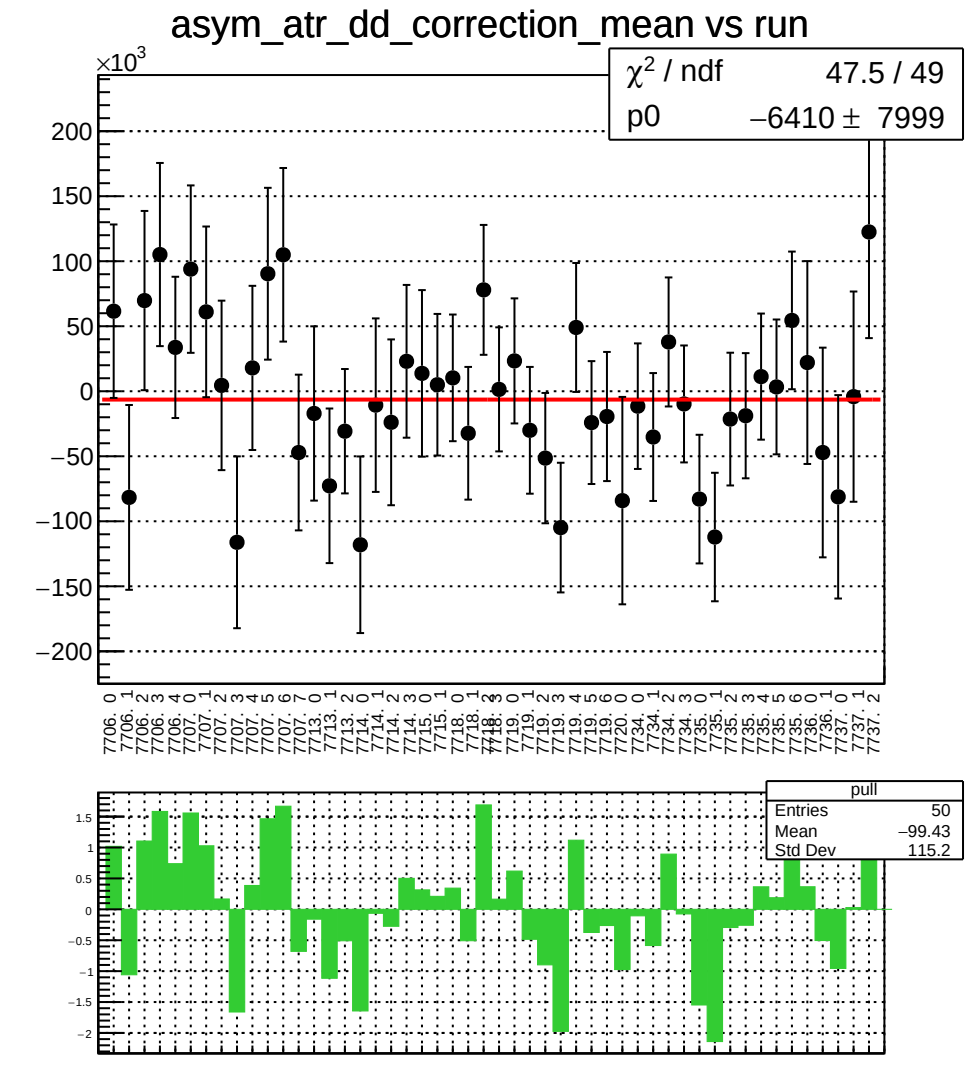

asym_atr_avg_mean vs run
×10^3
χ² / ndf 46.51 / 49
p0 −1939 ± 9419
300
200
100
0
−100
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −3231
Std Dev 3246
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.0005138
Std Dev 0.9645
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

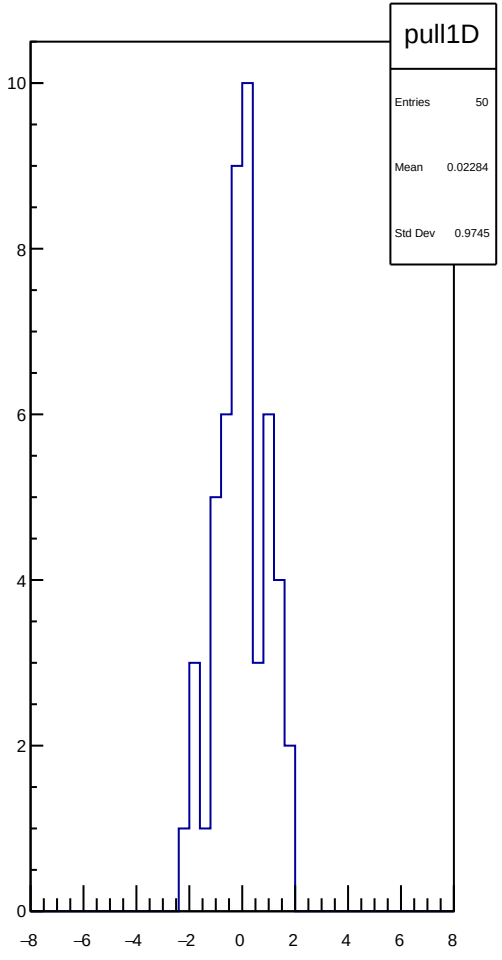

asym_atr_avg_rms vs run
χ² / ndf 1.451e+04 / 49
p0 6437 ± 6.66
10000
9000
8000
7000
6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

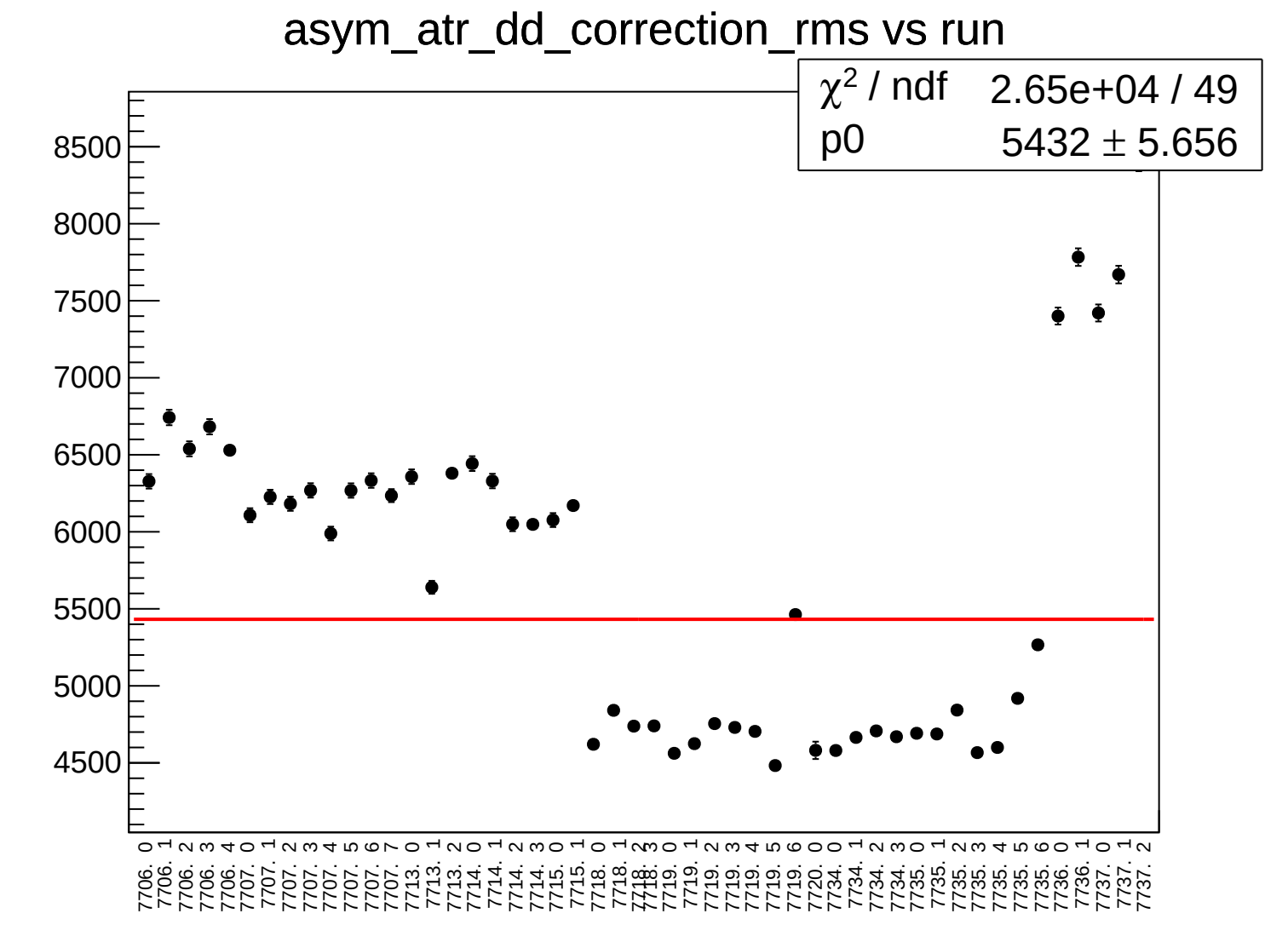

dit_asym_atr_dd_mean vs run
χ² / ndf 37.65 / 49
p0 1166 ± 2832
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −225.8
Std Dev 254.7
2
1
0
−1
−2

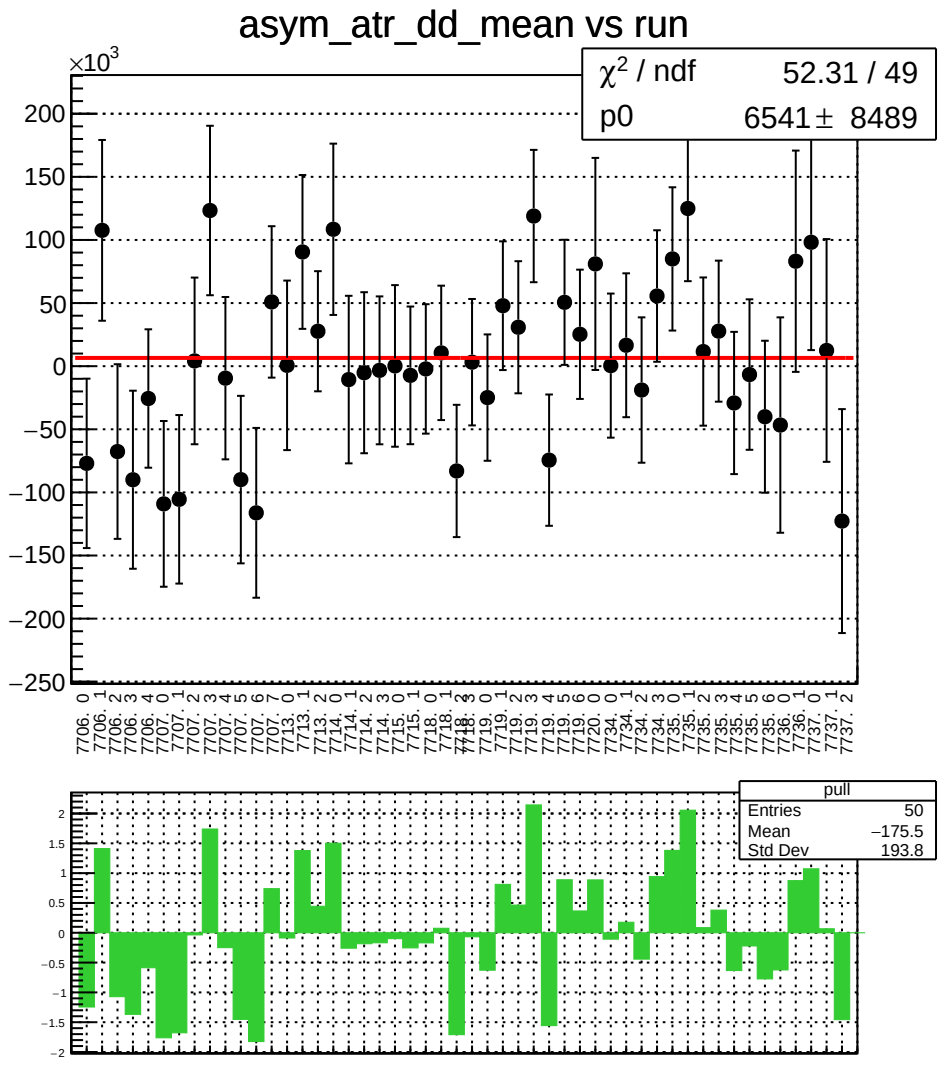

pull1D
Entries 50
Mean −0.007728
Std Dev 0.8677
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

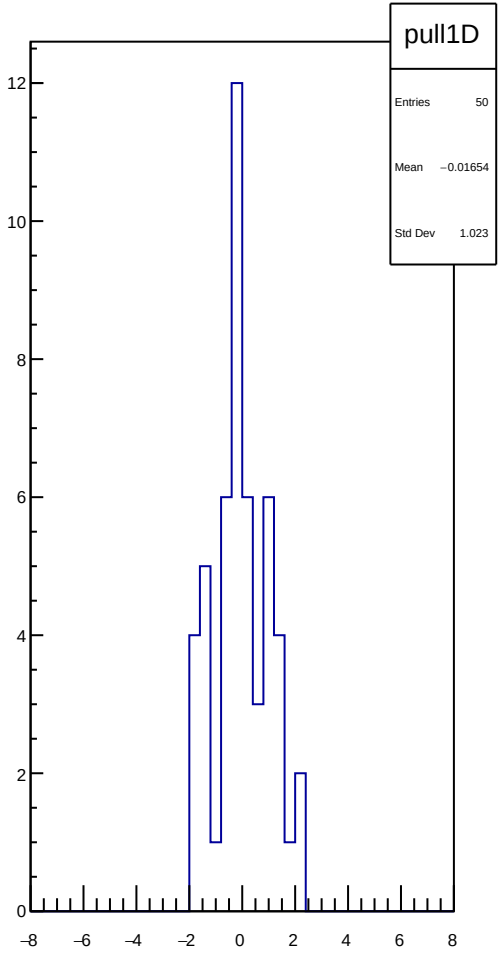

dit_asym_atr_dd_rms vs run
χ^2 / ndf 960.4 / 49
p0 1950 ± 2.002
2200
2150
2100
2050
2000
1950
1900
1850
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

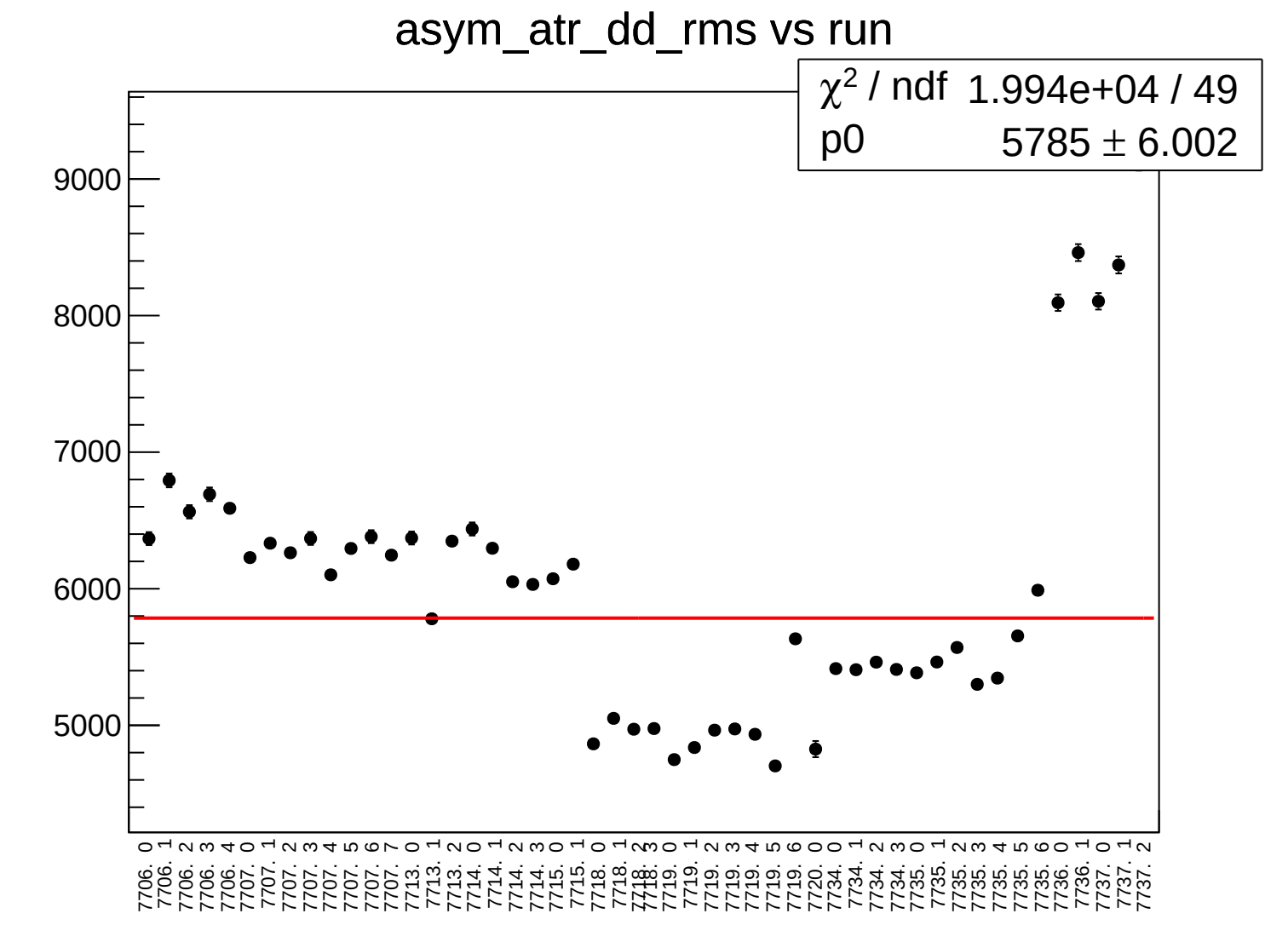

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 47.5 / 49
p0 −6410 ± 7999
200
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −99.43
Std Dev 115.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

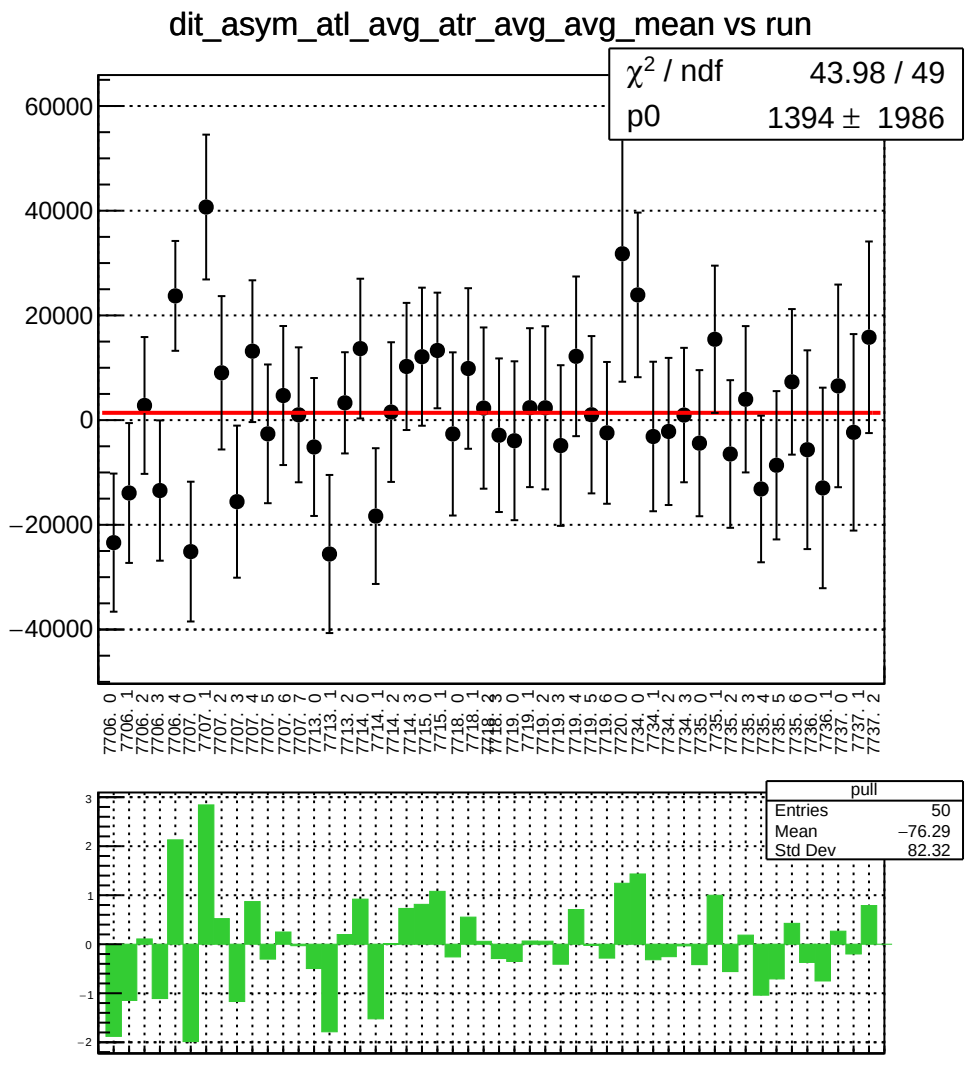

pull1D
Entries 50
Mean 0.02284
Std Dev 0.9745
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

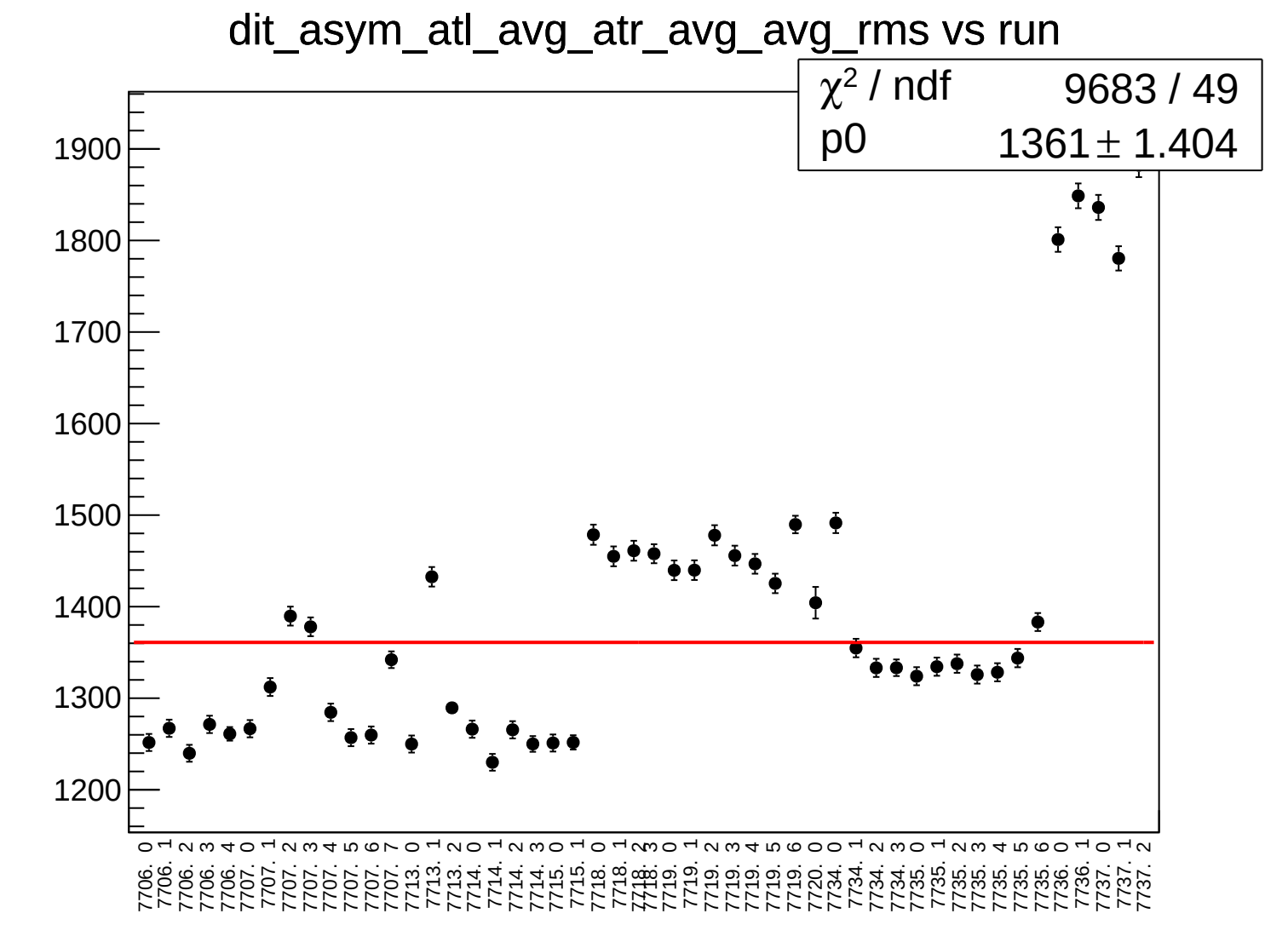

asym_atr_dd_correction_rms vs run
χ² / ndf 2.65e+04 / 49
p0 5432 ± 5.656
8500
8000
7500
7000
6500
6000
5500
5000
4500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

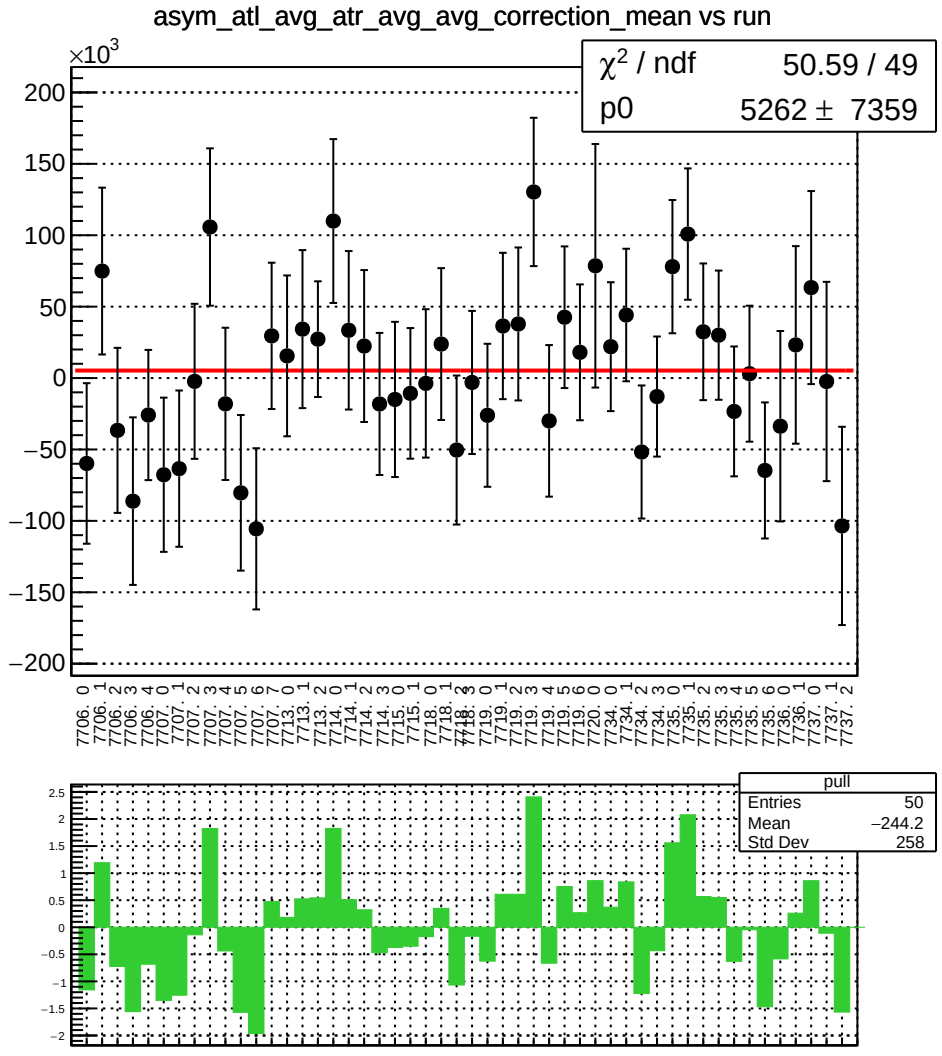

asym_atr_dd_mean vs run
×10^3
χ² / ndf 52.31 / 49
p0 6541 ± 8489
pull
Entries 50
Mean −175.5
Std Dev 193.8

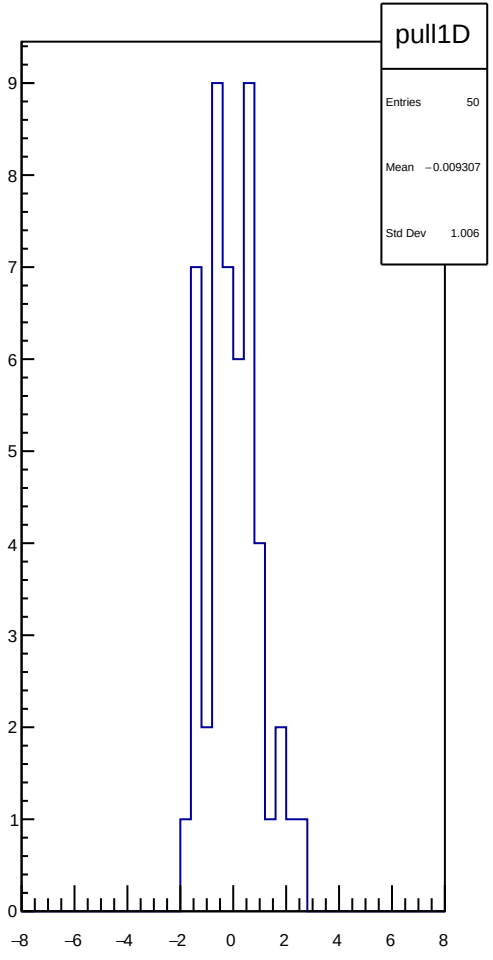

pull1D
Entries 50
Mean −0.01654
Std Dev 1.023

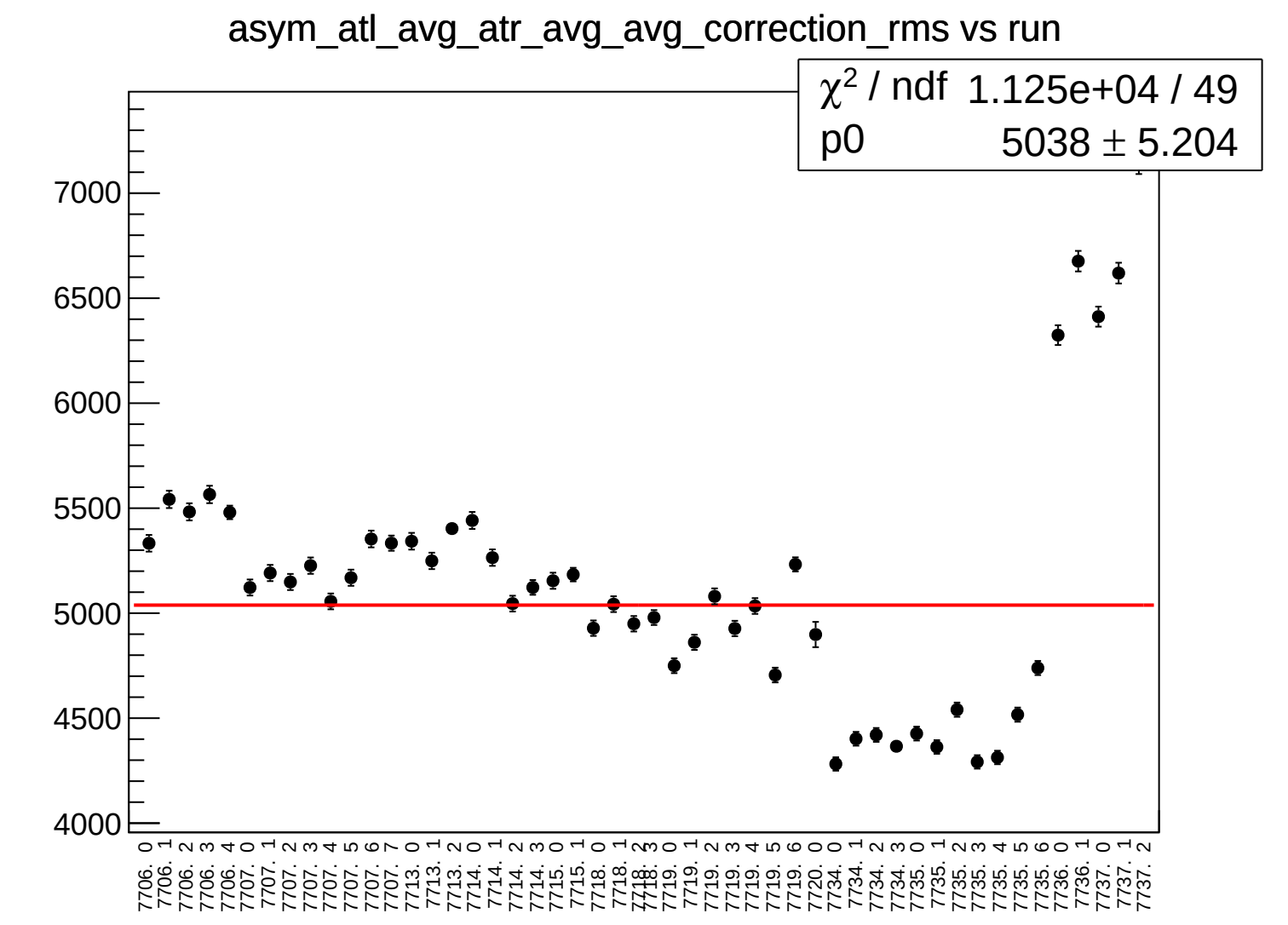

asym_atr_dd_rms vs run
χ² / ndf 1.994e+04 / 49
p0 5785 ± 6.002
9000
8000
7000
6000
5000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

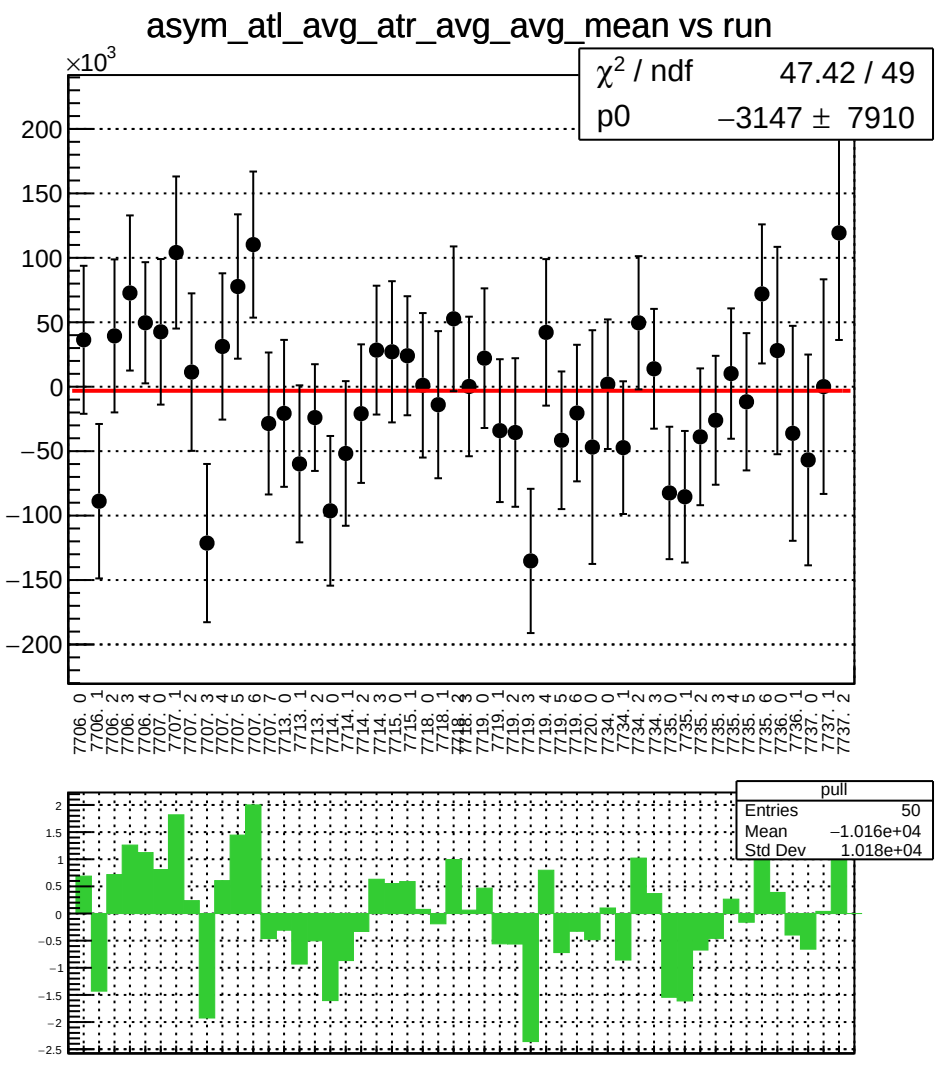

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 43.98 / 49
p0 1394 ± 1986
60000
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −76.29
Std Dev 82.32
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.008618
Std Dev 0.9379
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

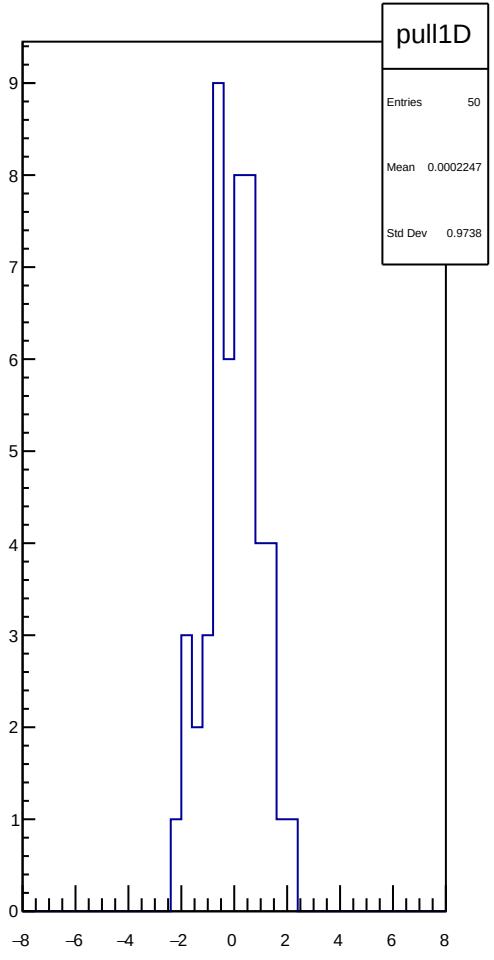

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 9683 / 49
p0 1361 ± 1.404
1900
1800
1700
1600
1500
1400
1300
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

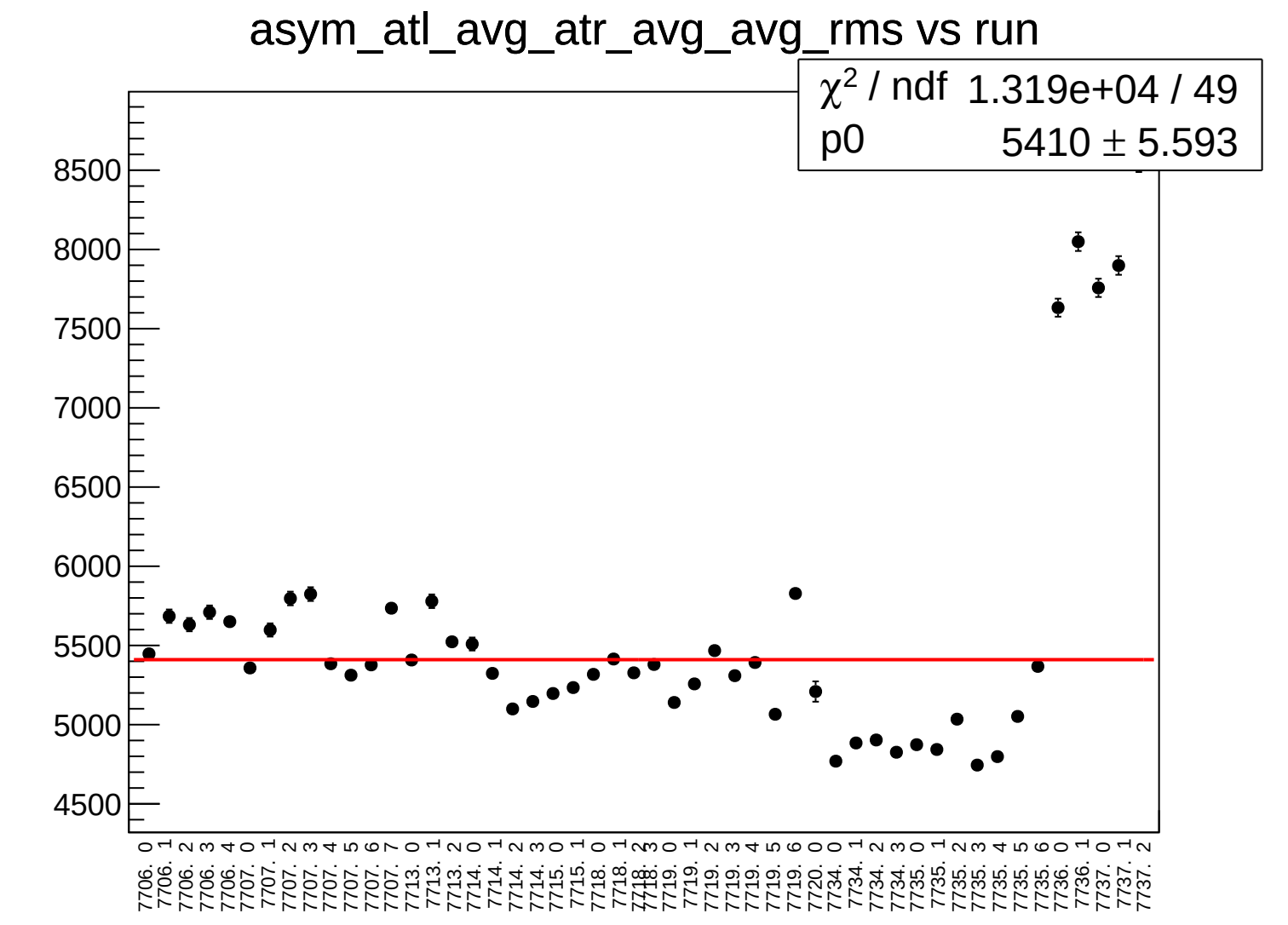

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 50.59 / 49
p0 5262 ± 7359
200
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −244.2
Std Dev 258
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

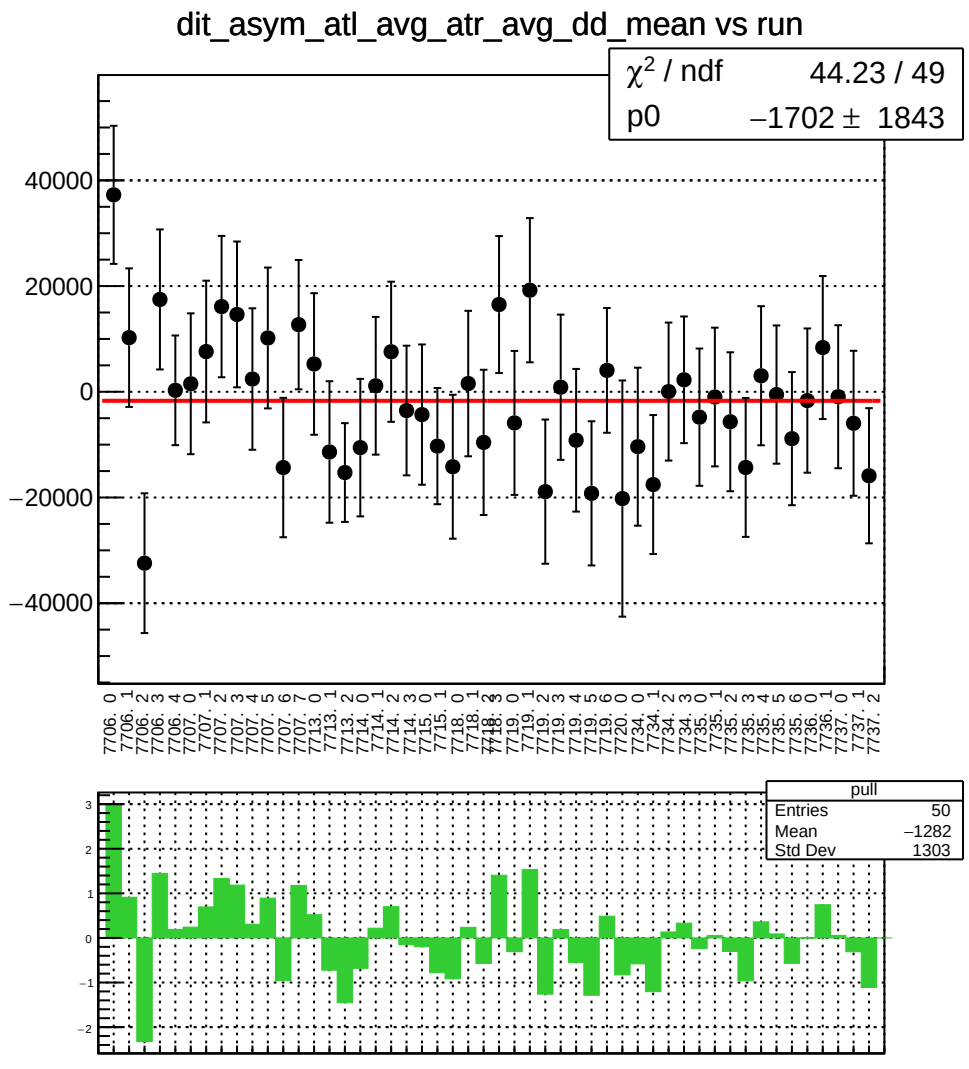

pull1D
Entries 50
Mean −0.009307
Std Dev 1.006
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

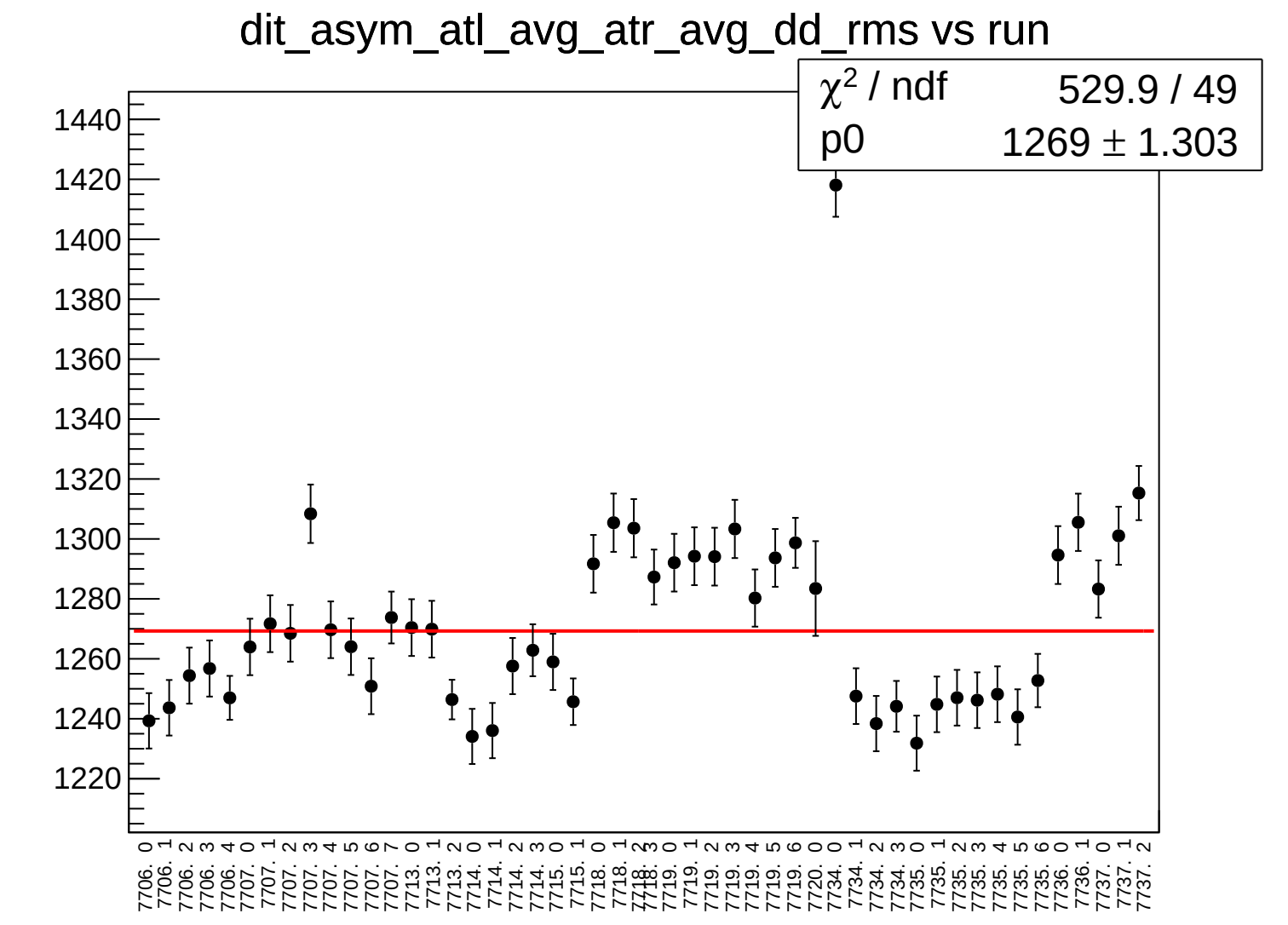

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 1.125e+04 / 49
p0 5038 ± 5.204
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

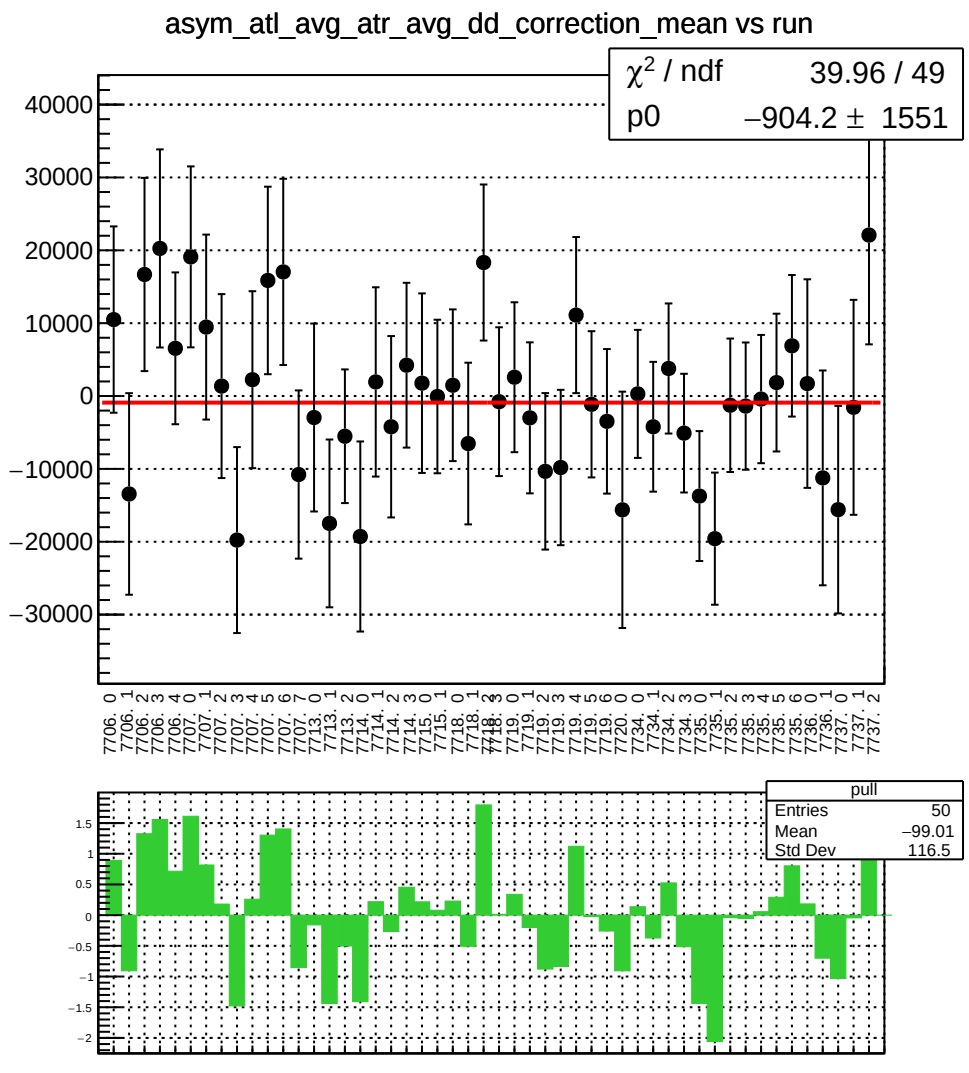

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 47.42 / 49
p0 −3147 ± 7910
×10³
pull
Entries 50
Mean −1.016e+04
Std Dev 1.018e+04

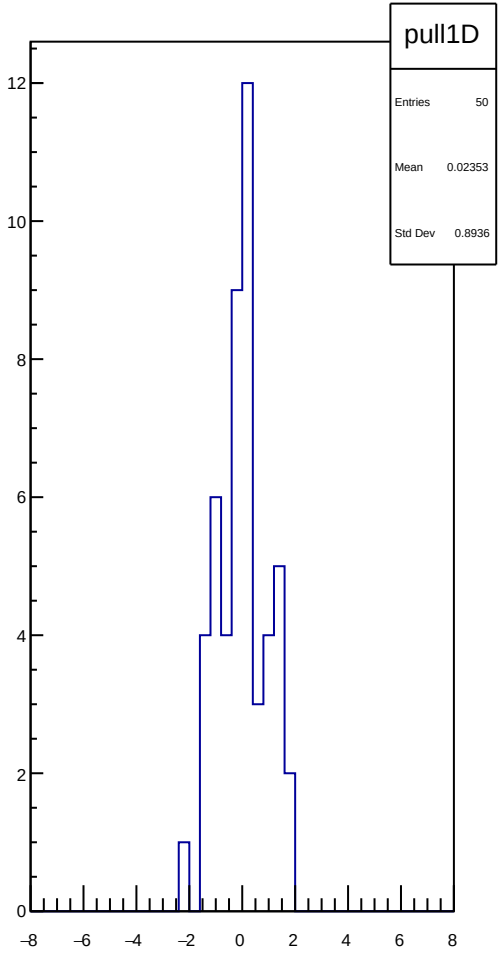

pull1D
Entries 50
Mean 0.0002247
Std Dev 0.9738

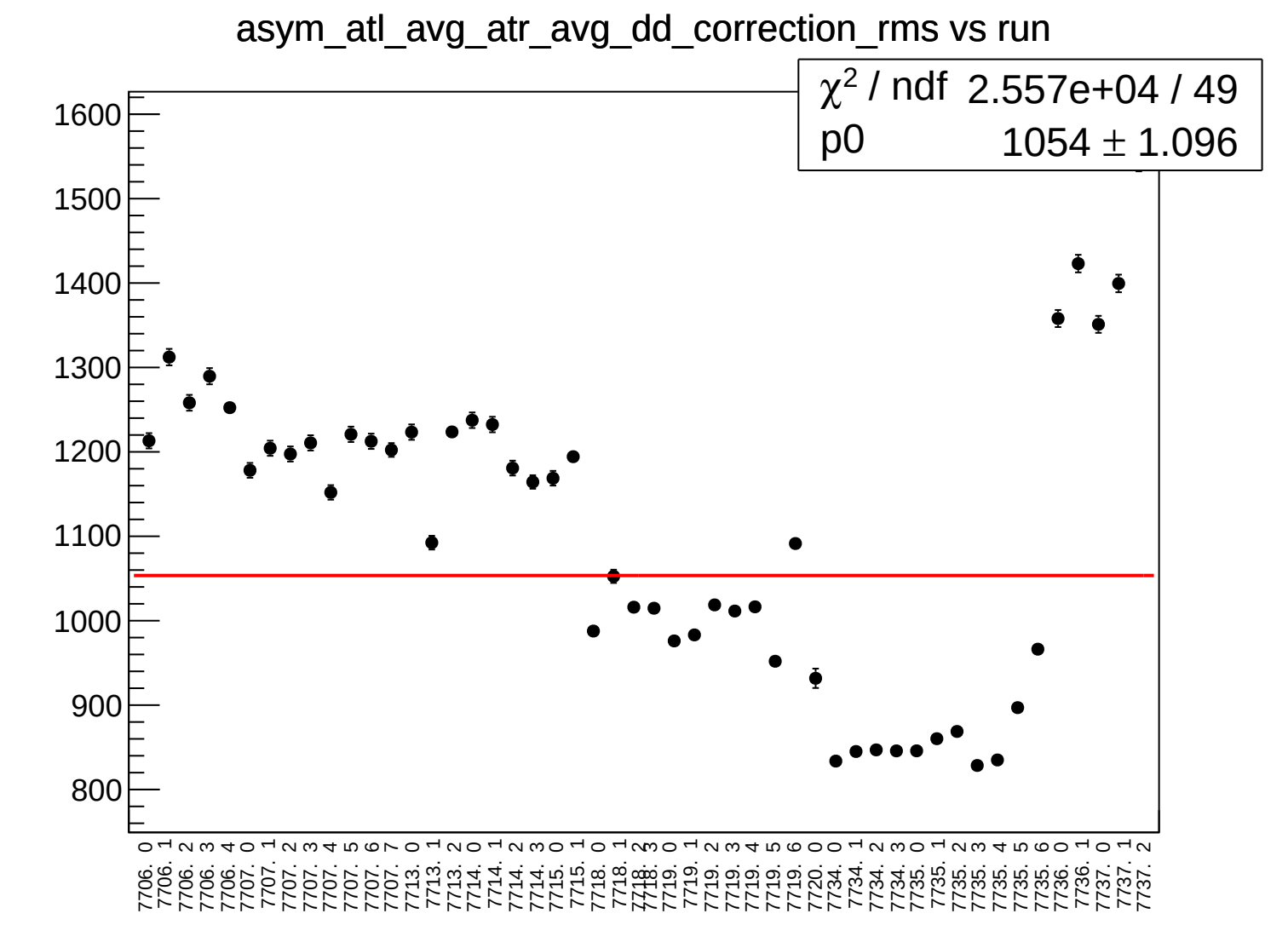

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.319e+04 / 49
p0 5410 ± 5.593
8500
8000
7500
7000
6500
6000
5500
5000
4500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

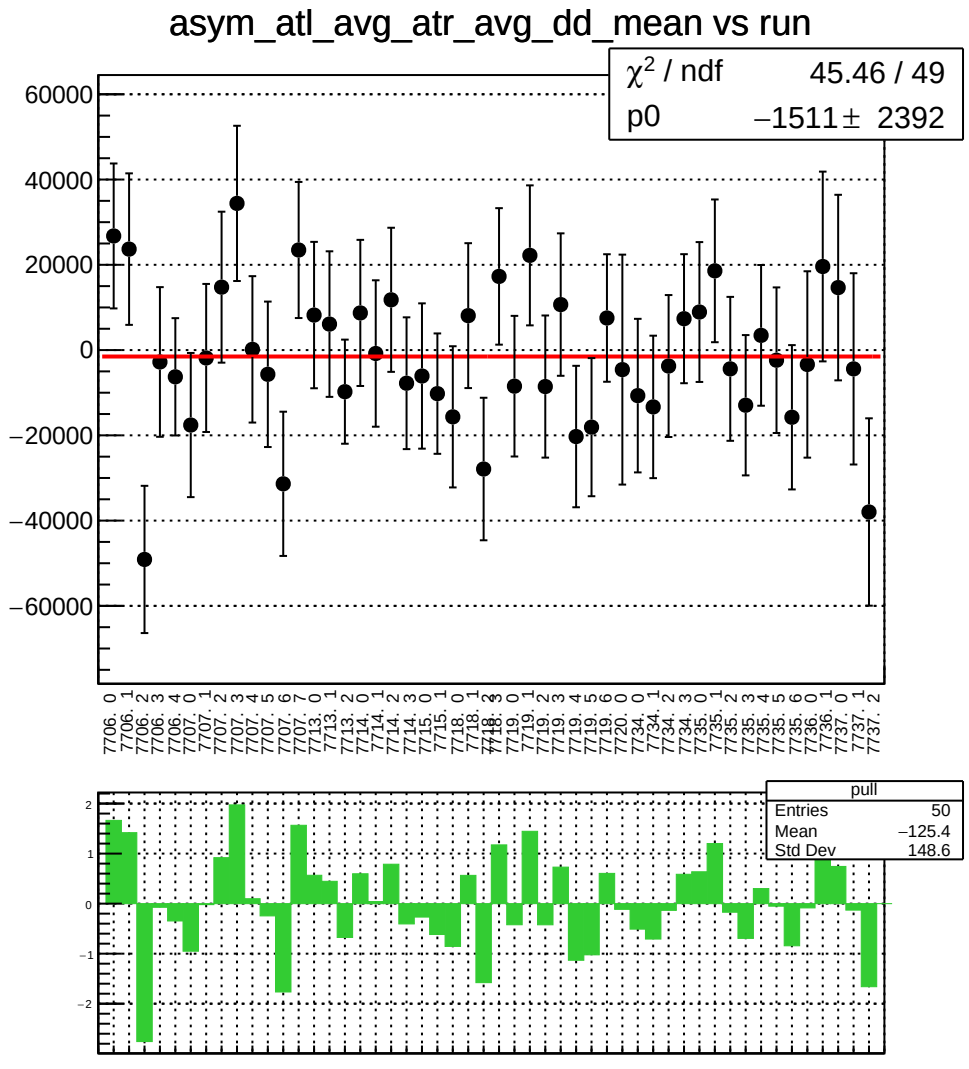

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 44.23 / 49
p0 −1702 ± 1843
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −1282
Std Dev 1303
3
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.003143
Std Dev 0.9406
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

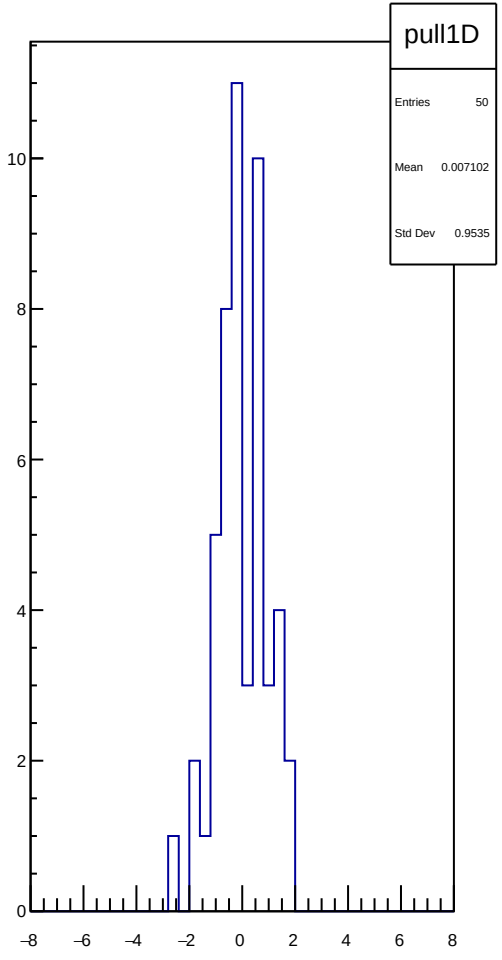

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 529.9 / 49
p0 1269 ± 1.303
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
1220
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

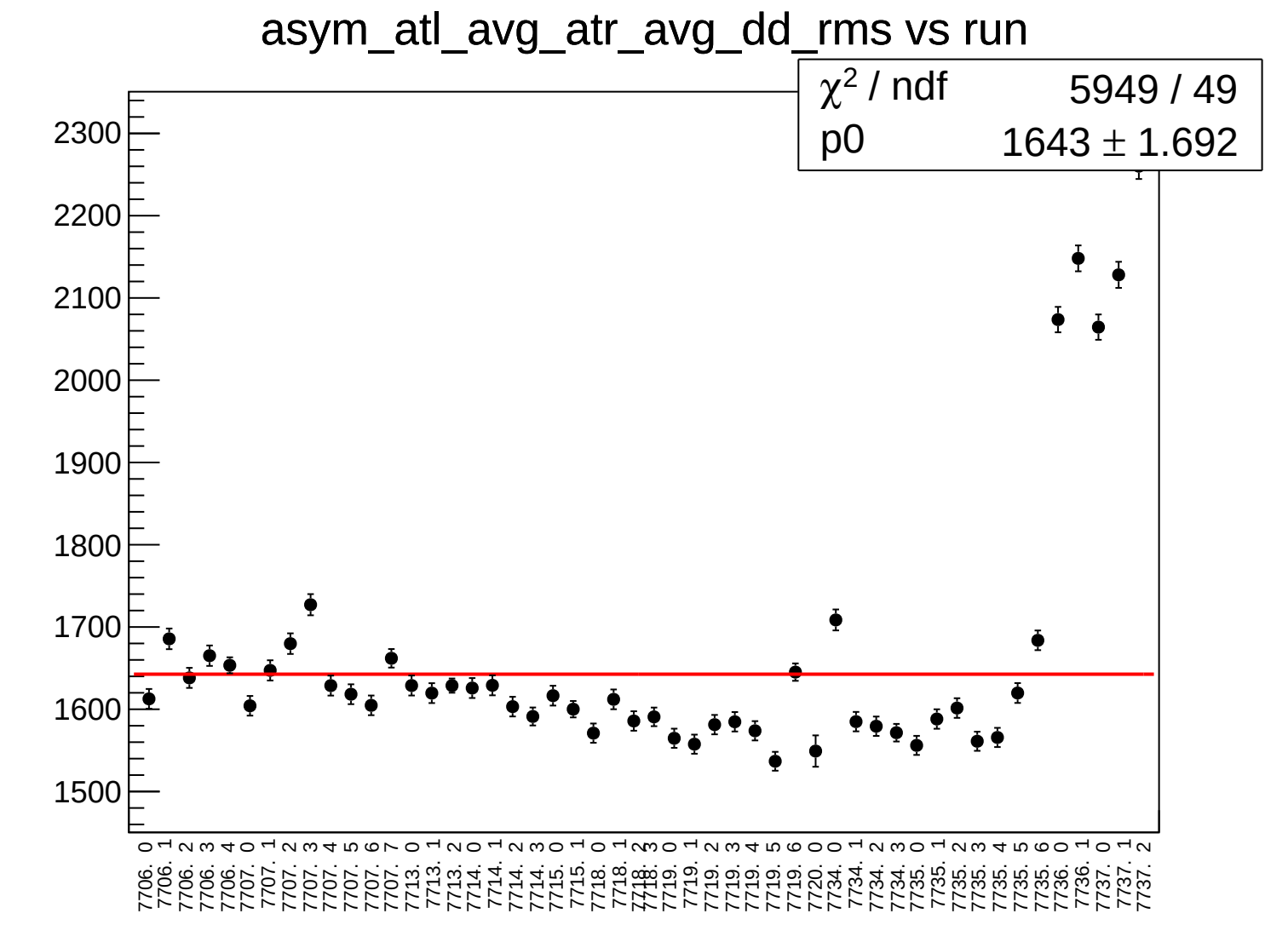

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 39.96 / 49
p0 −904.2 ± 1551
40000
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −99.01
Std Dev 116.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2

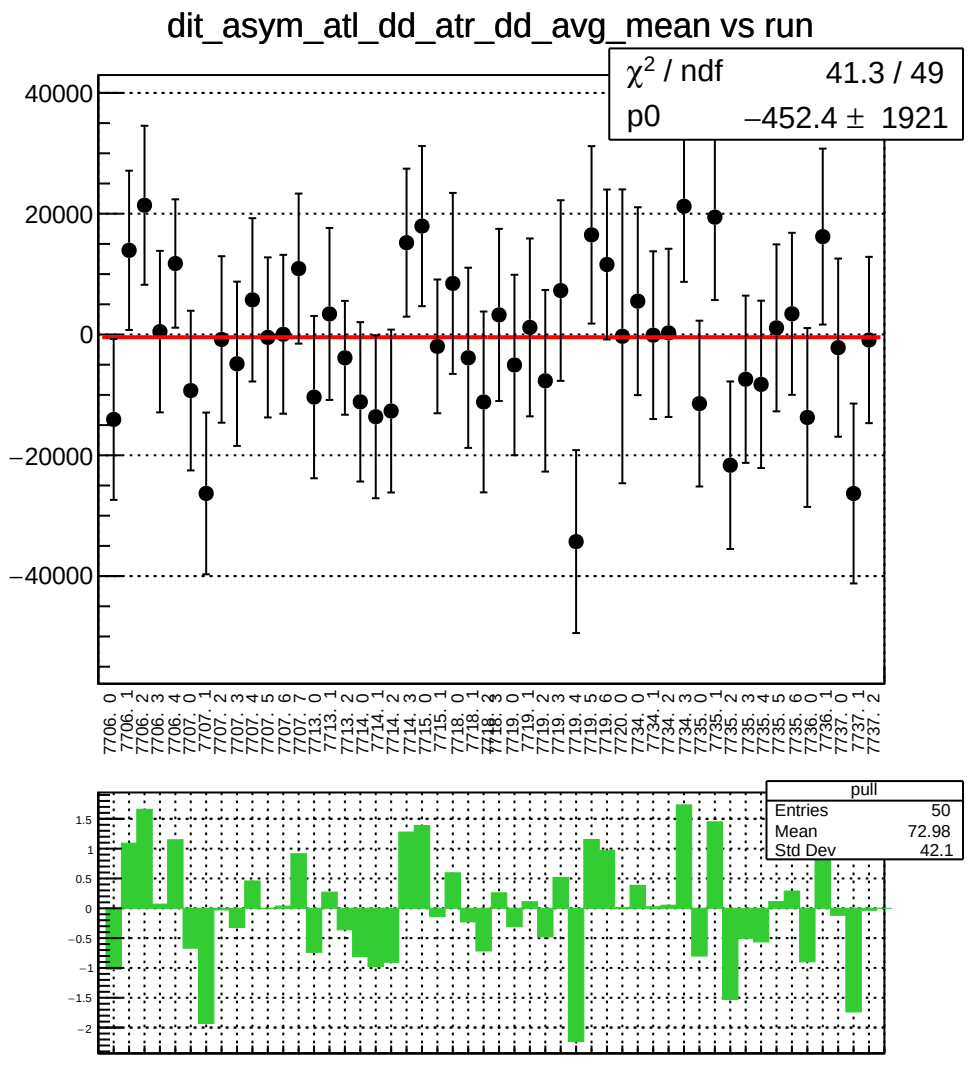

pull1D
Entries 50
Mean 0.02353
Std Dev 0.8936
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

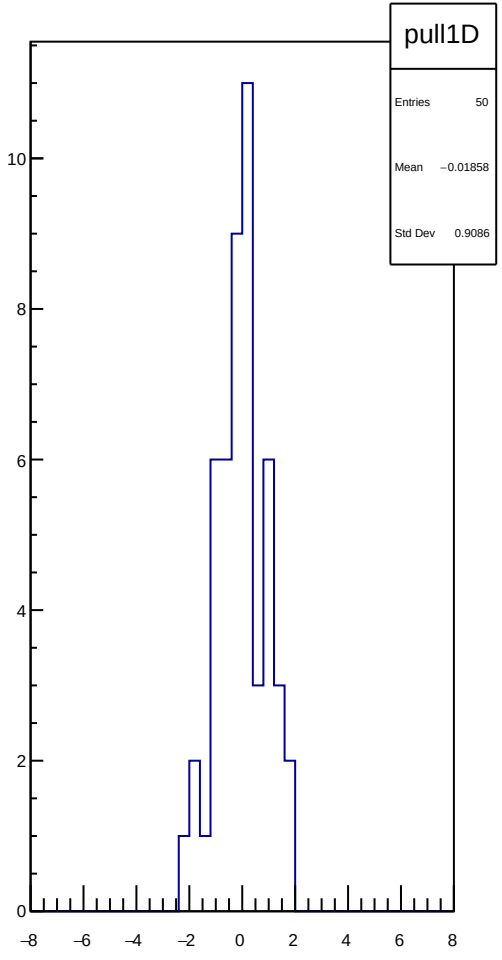

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 2.557e+04 / 49
p0 1054 ± 1.096
1600
1500
1400
1300
1200
1100
1000
900
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

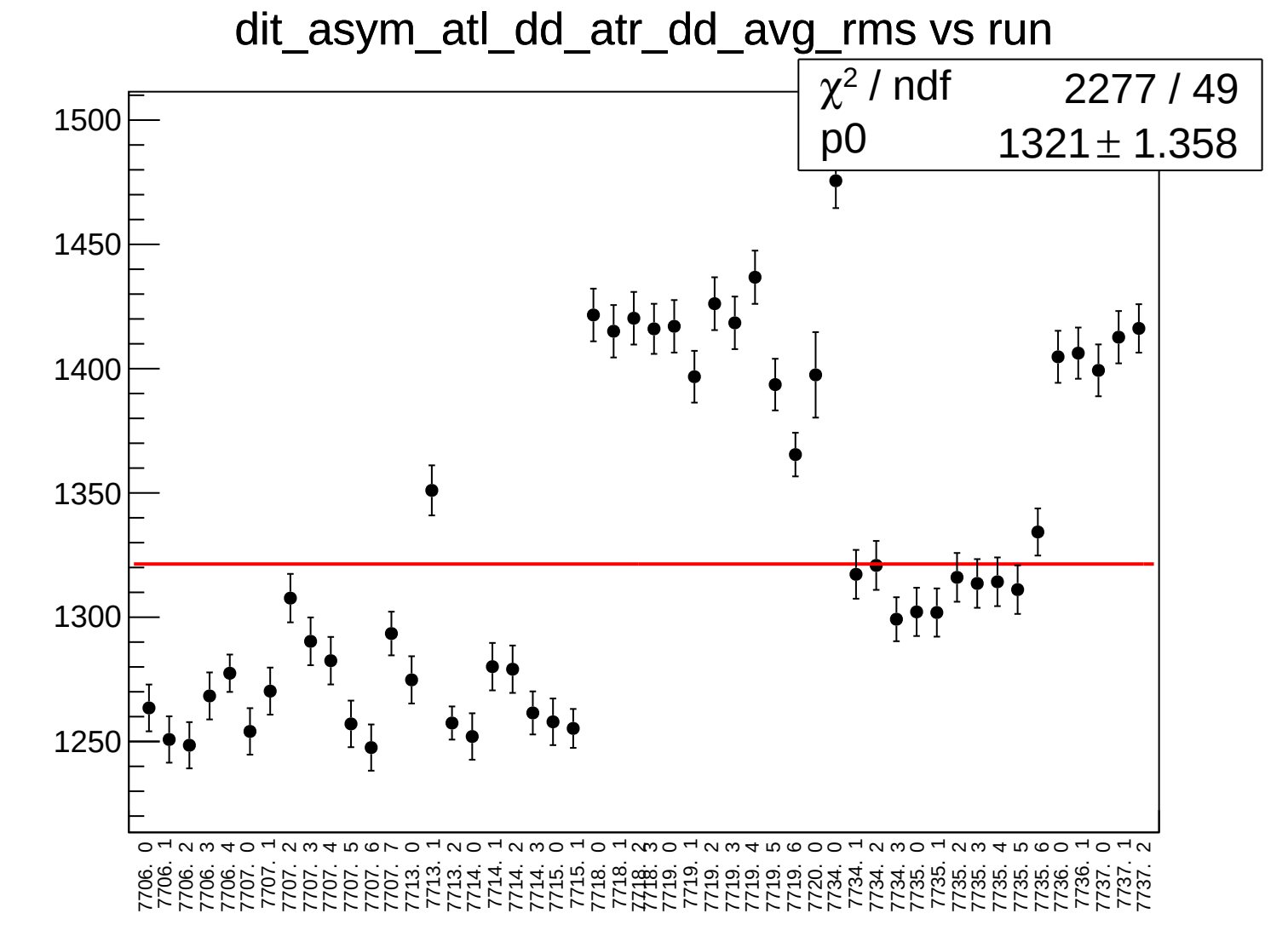

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 45.46 / 49
p0 −1511 ± 2392
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −125.4
Std Dev 148.6
2
1
0
−1
−2

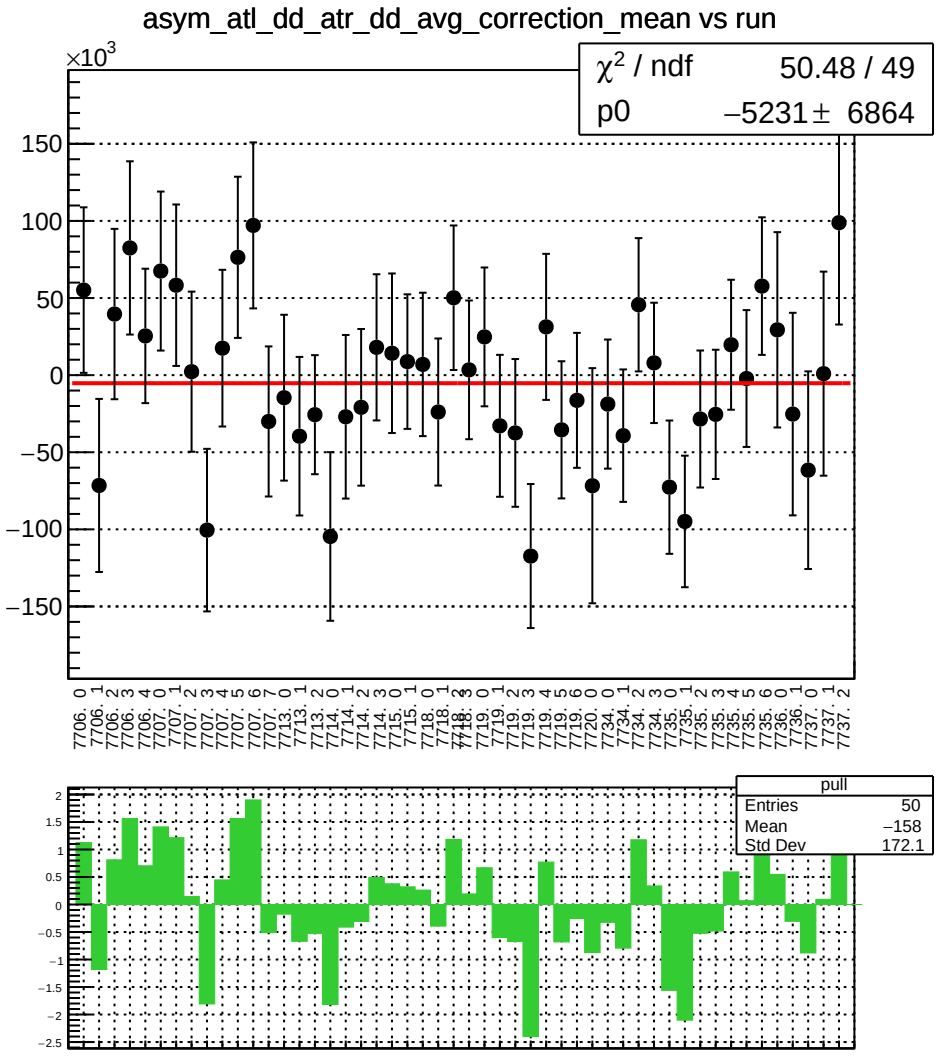

pull1D
Entries 50
Mean 0.007102
Std Dev 0.9535
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

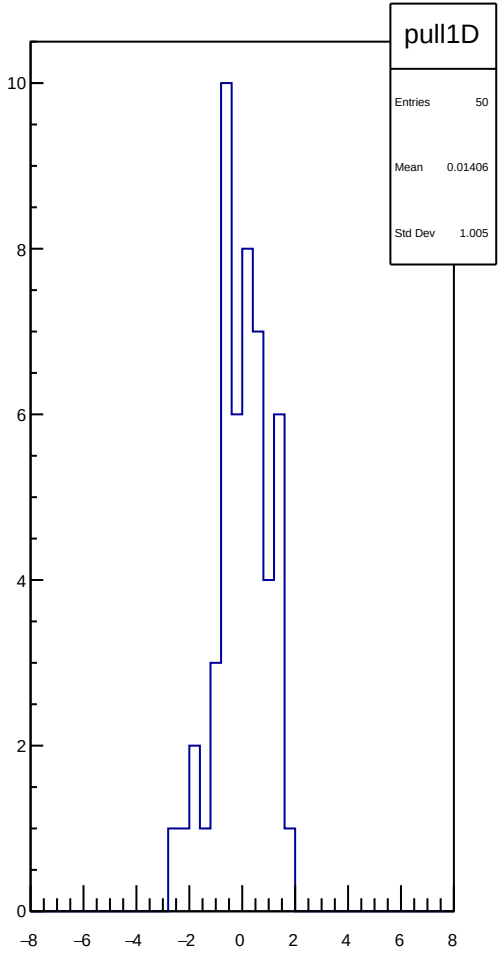

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 5949 / 49
p0 1643 ± 1.692
2300
2200
2100
2000
1900
1800
1700
1600
1500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

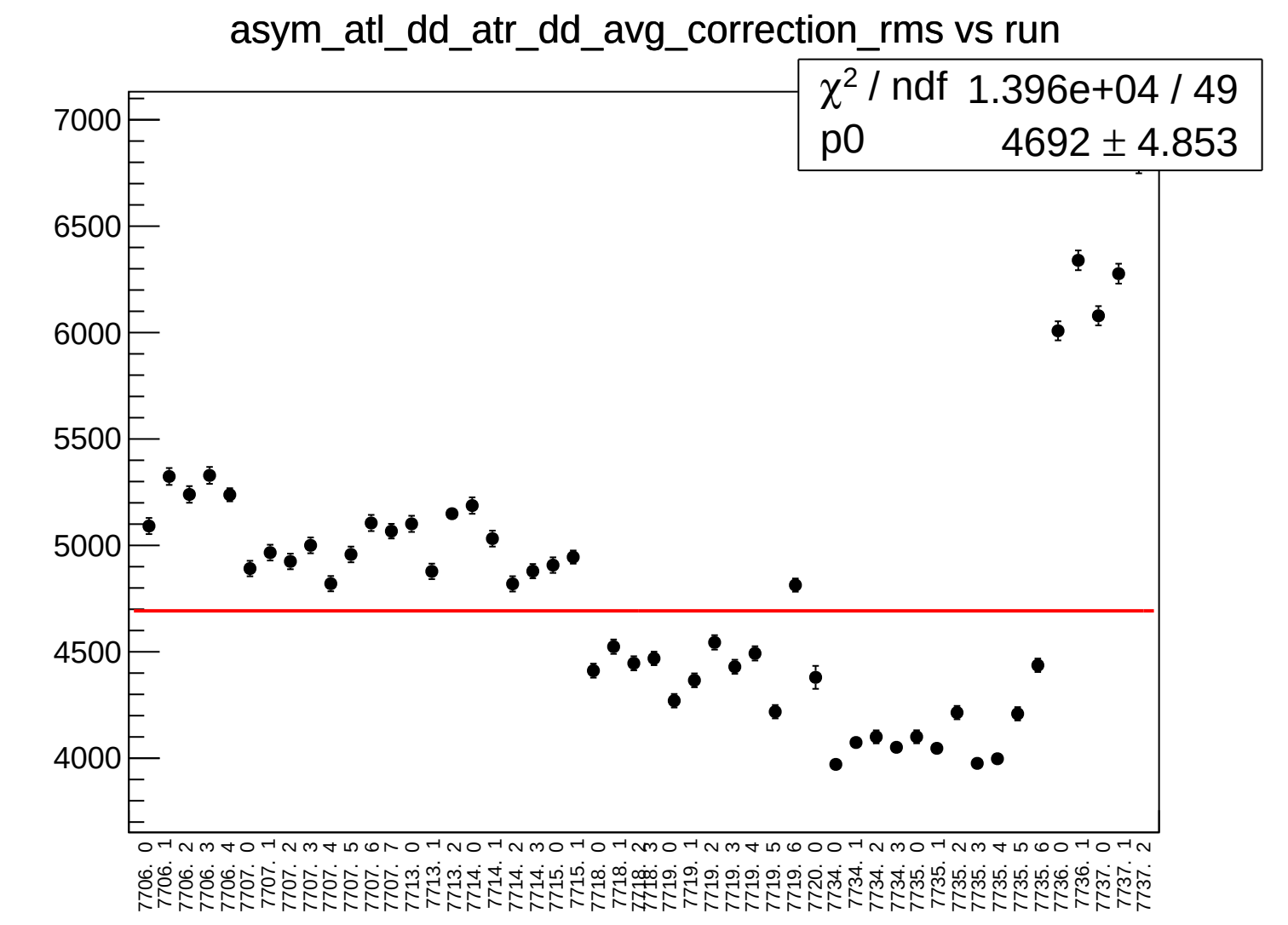

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 41.3 / 49
p0 −452.4 ± 1921
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 72.98
Std Dev 42.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

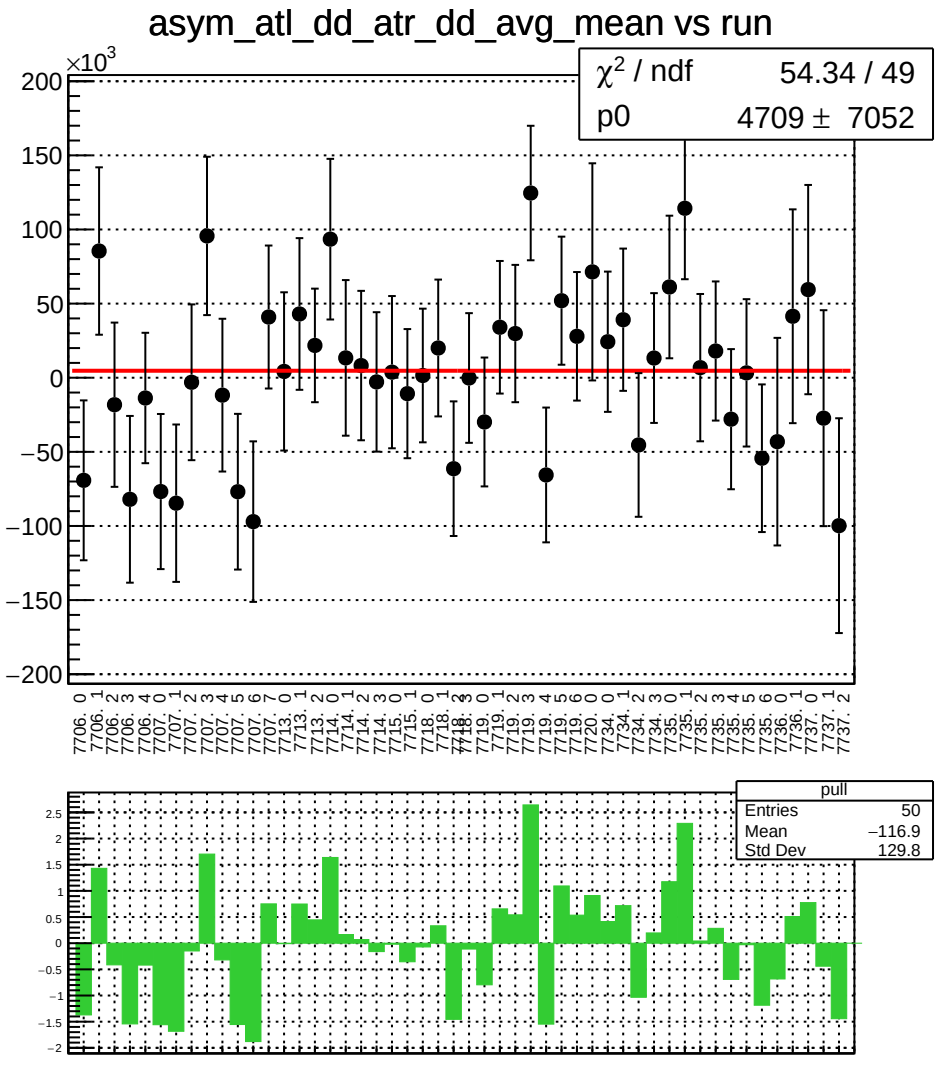

pull1D
Entries 50
Mean −0.01858
Std Dev 0.9086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

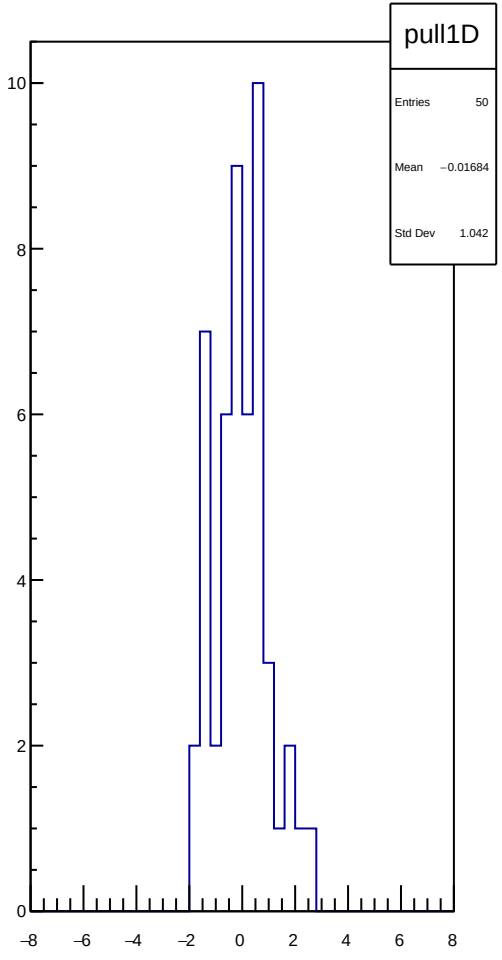

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2277 / 49
p0 1321 ± 1.358
1500
1450
1400
1350
1300
1250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

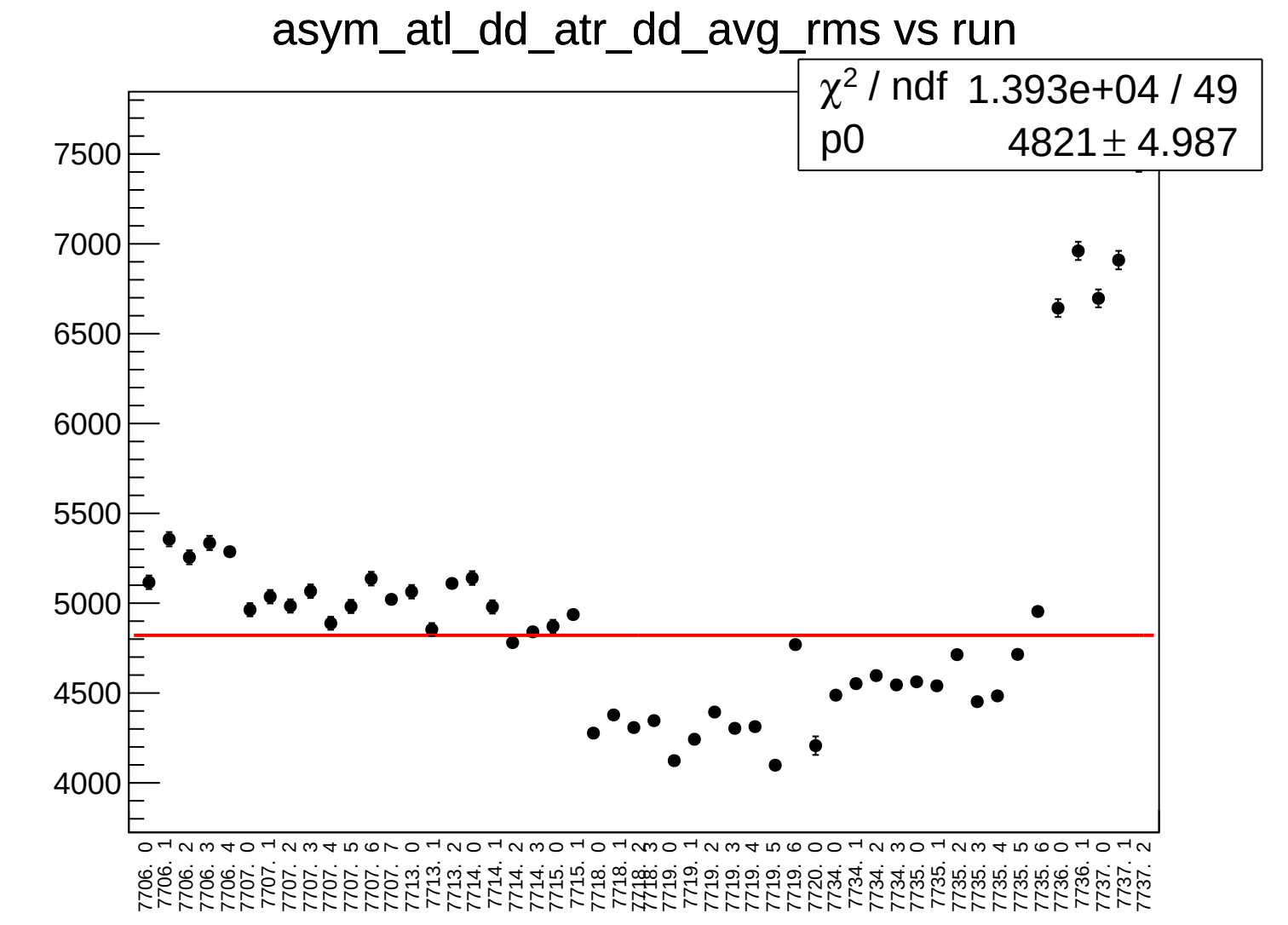

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 50.48 / 49
p0 −5231 ± 6864
×10³
pull
Entries 50
Mean −158
Std Dev 172.1

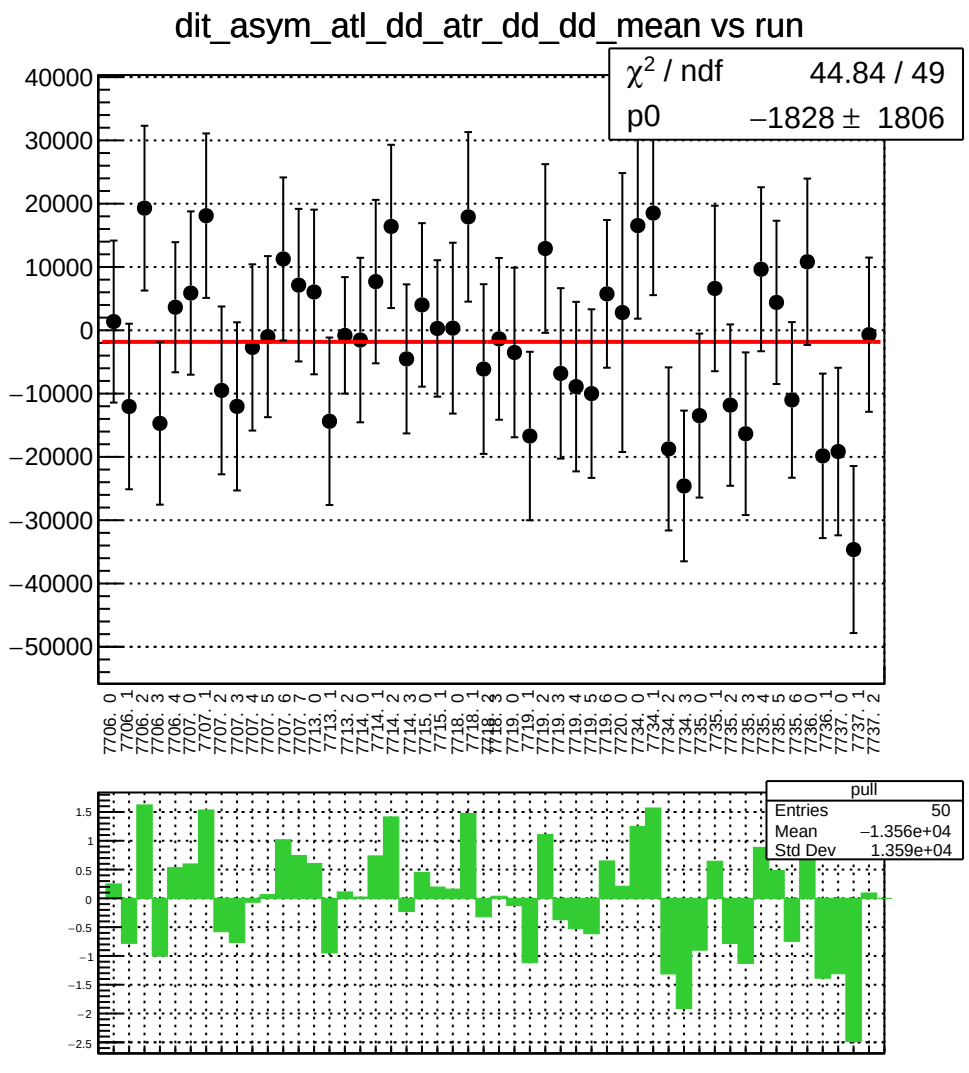

pull1D
Entries 50
Mean 0.01406
Std Dev 1.005

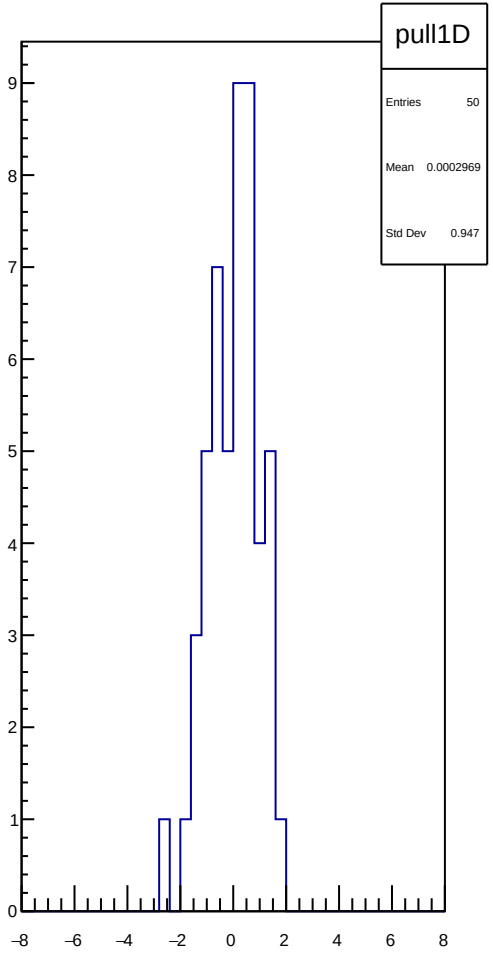

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 1.396e+04 / 49
p0 4692 ± 4.853
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

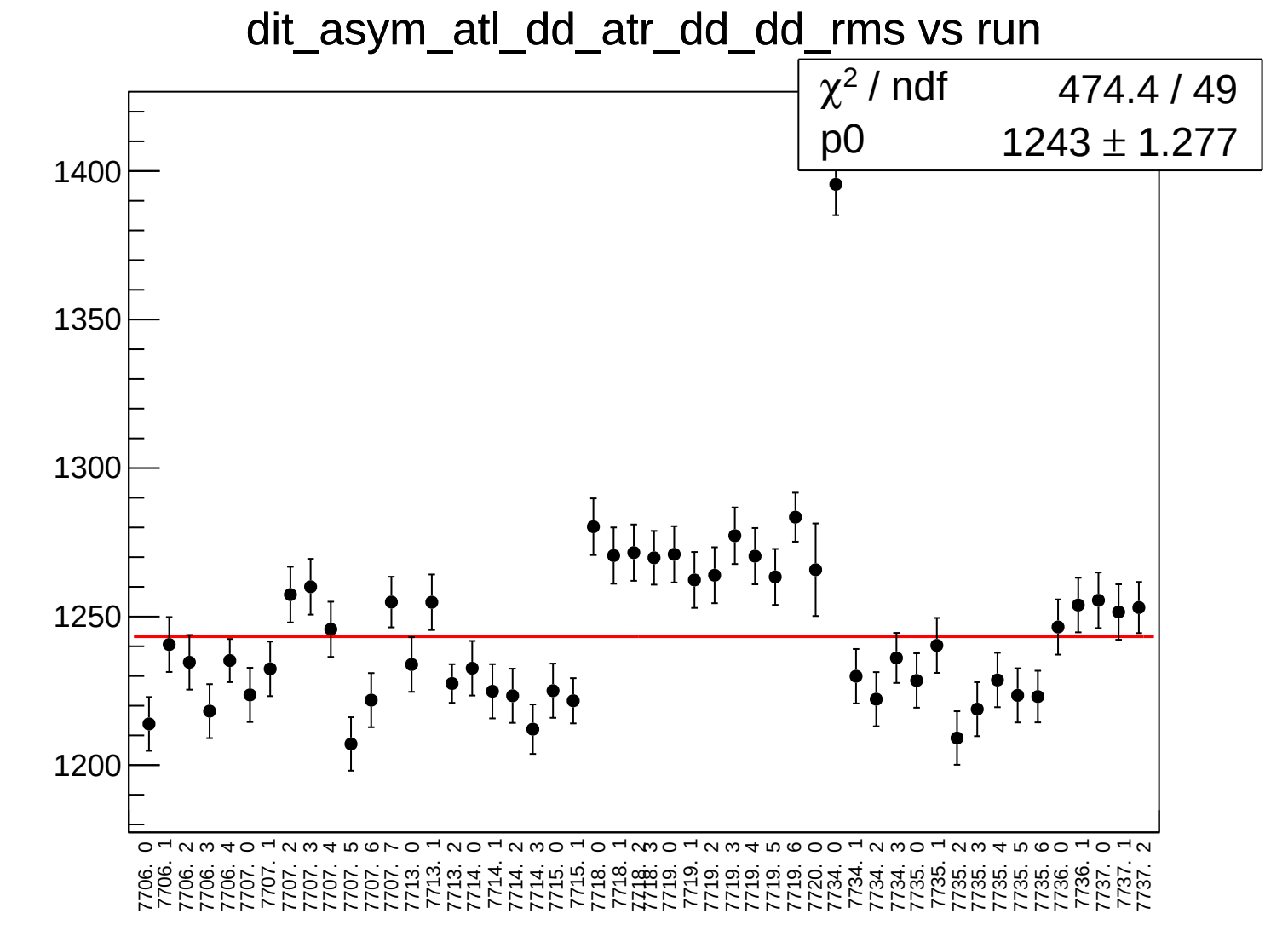

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 54.34 / 49
p0 4709 ± 7052
200
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −116.9
Std Dev 129.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01684
Std Dev 1.042
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.393e+04 / 49
p0 4821 ± 4.987
7500
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 44.84 / 49
p0 −1828 ± 1806
pull
Entries 50
Mean −1.356e+04
Std Dev 1.359e+04


pull1D
Entries 50
Mean 0.0002969
Std Dev 0.947


dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 474.4 / 49
p0 1243 ± 1.277
1400
1350
1300
1250
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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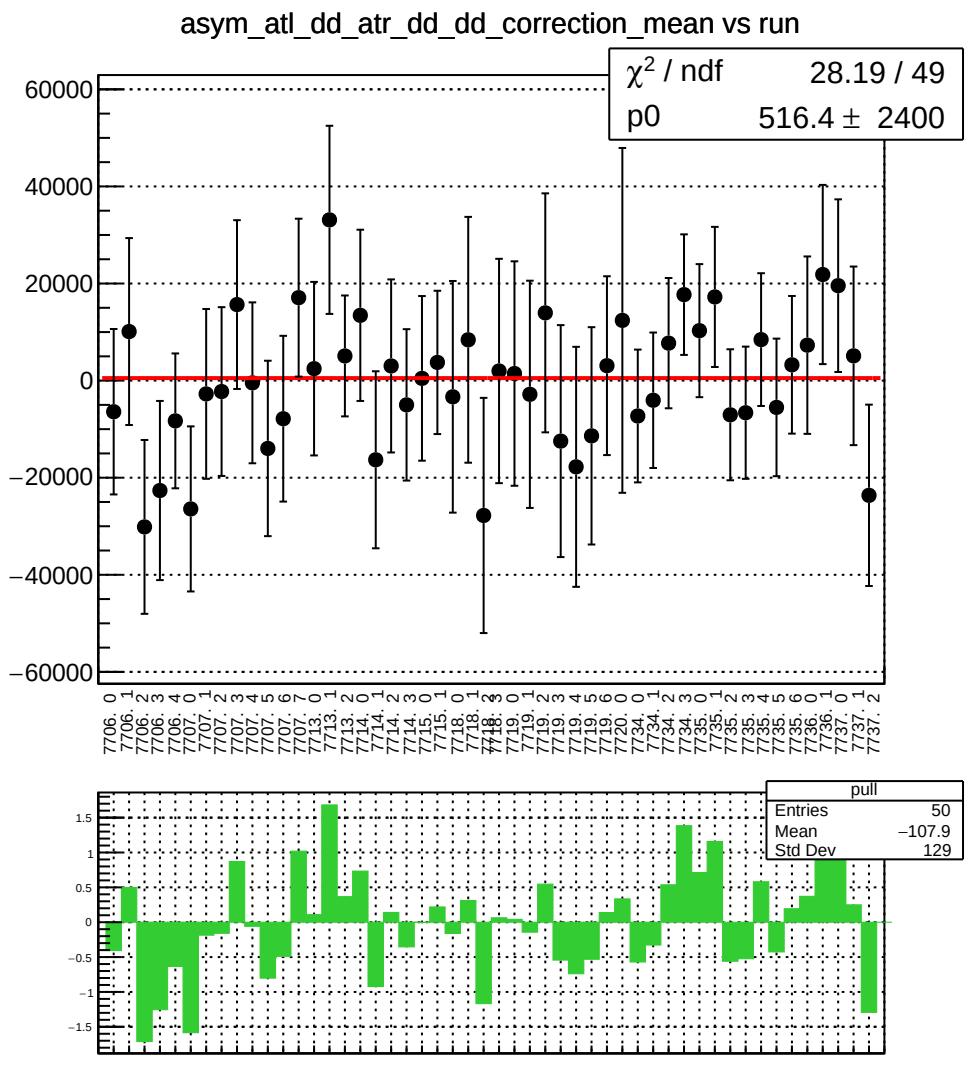
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 28.19 / 49
p0 516.4 ± 2400
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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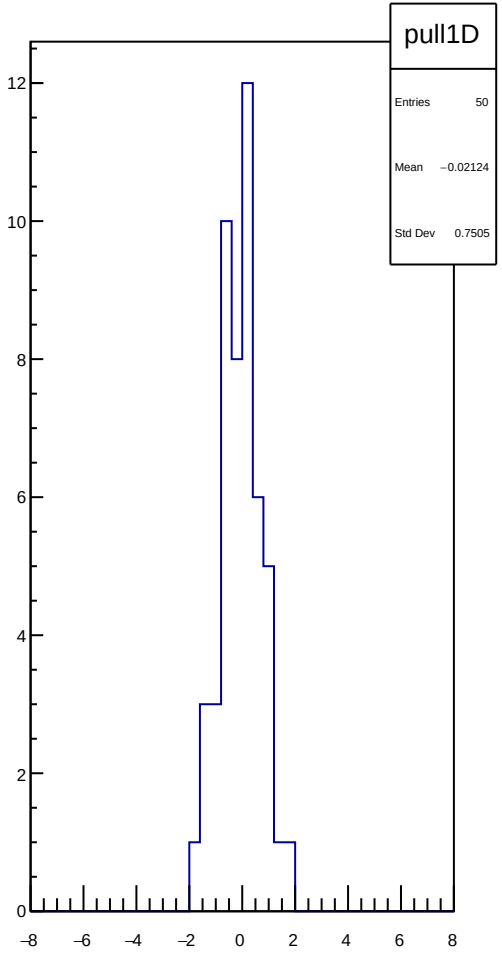
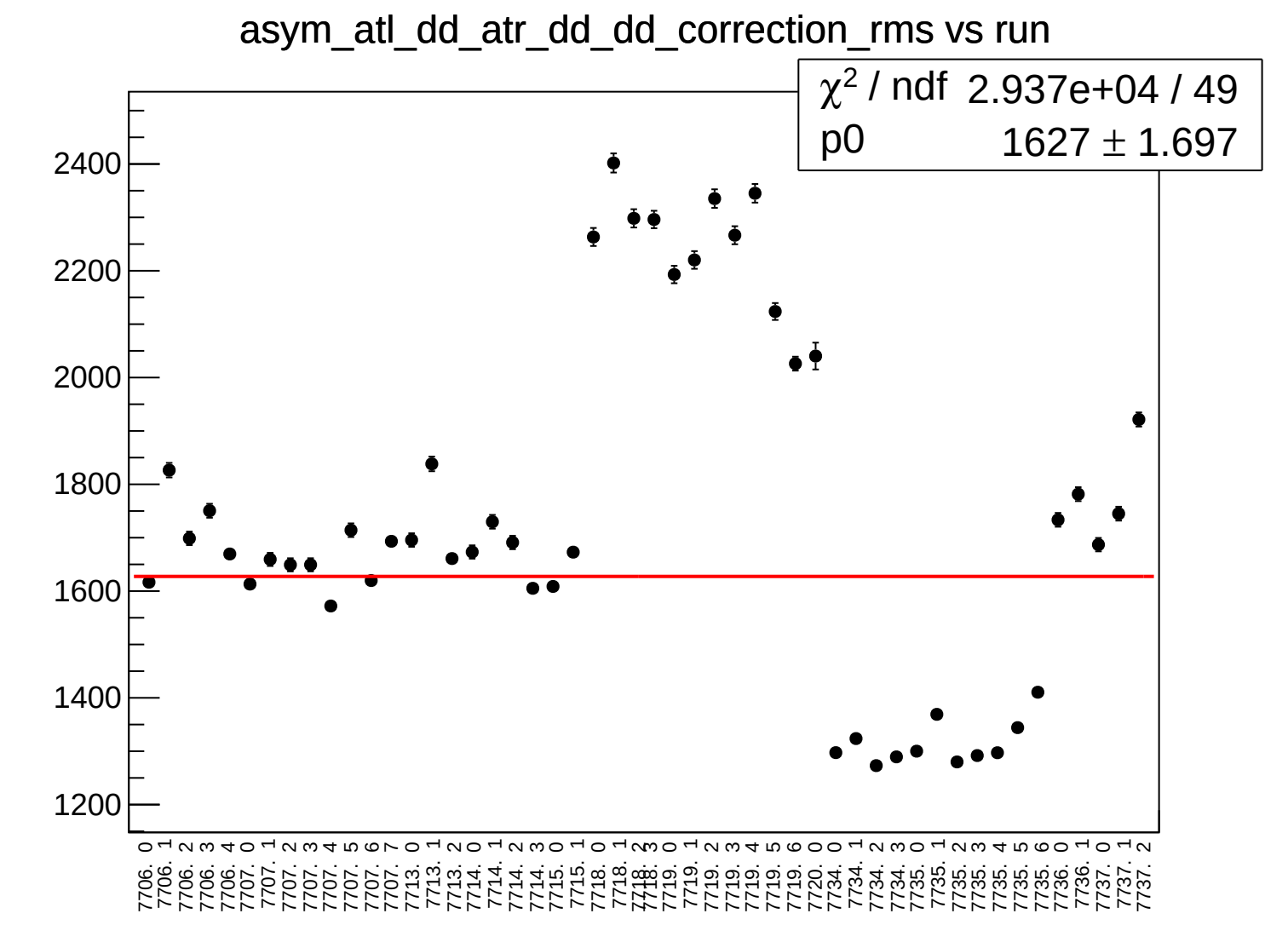
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −107.9
Std Dev 129
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.02124
Std Dev 0.7505
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 2.937e+04 / 49
p0 1627 ± 1.697
2400
2200
2000
1800
1600
1400
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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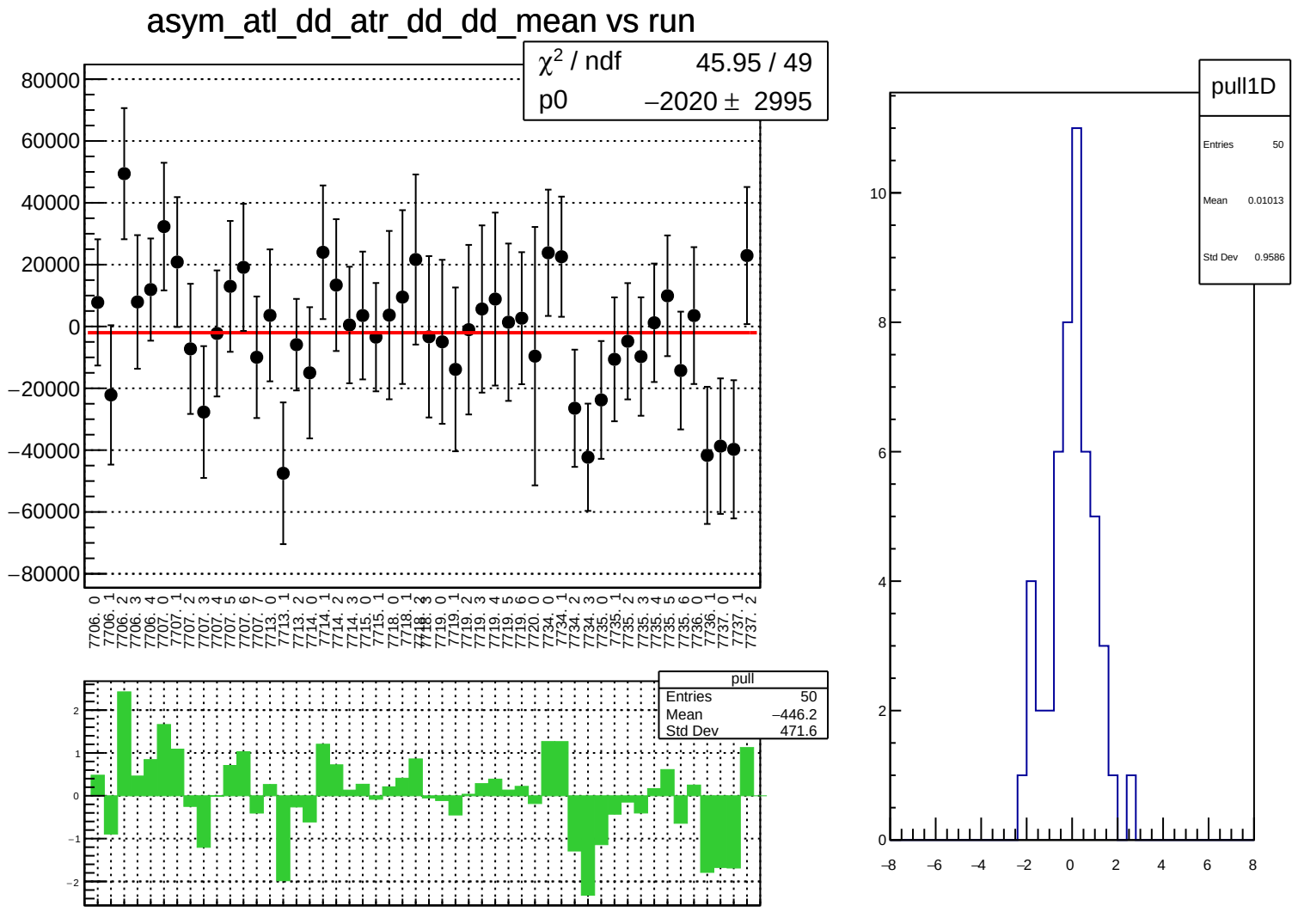
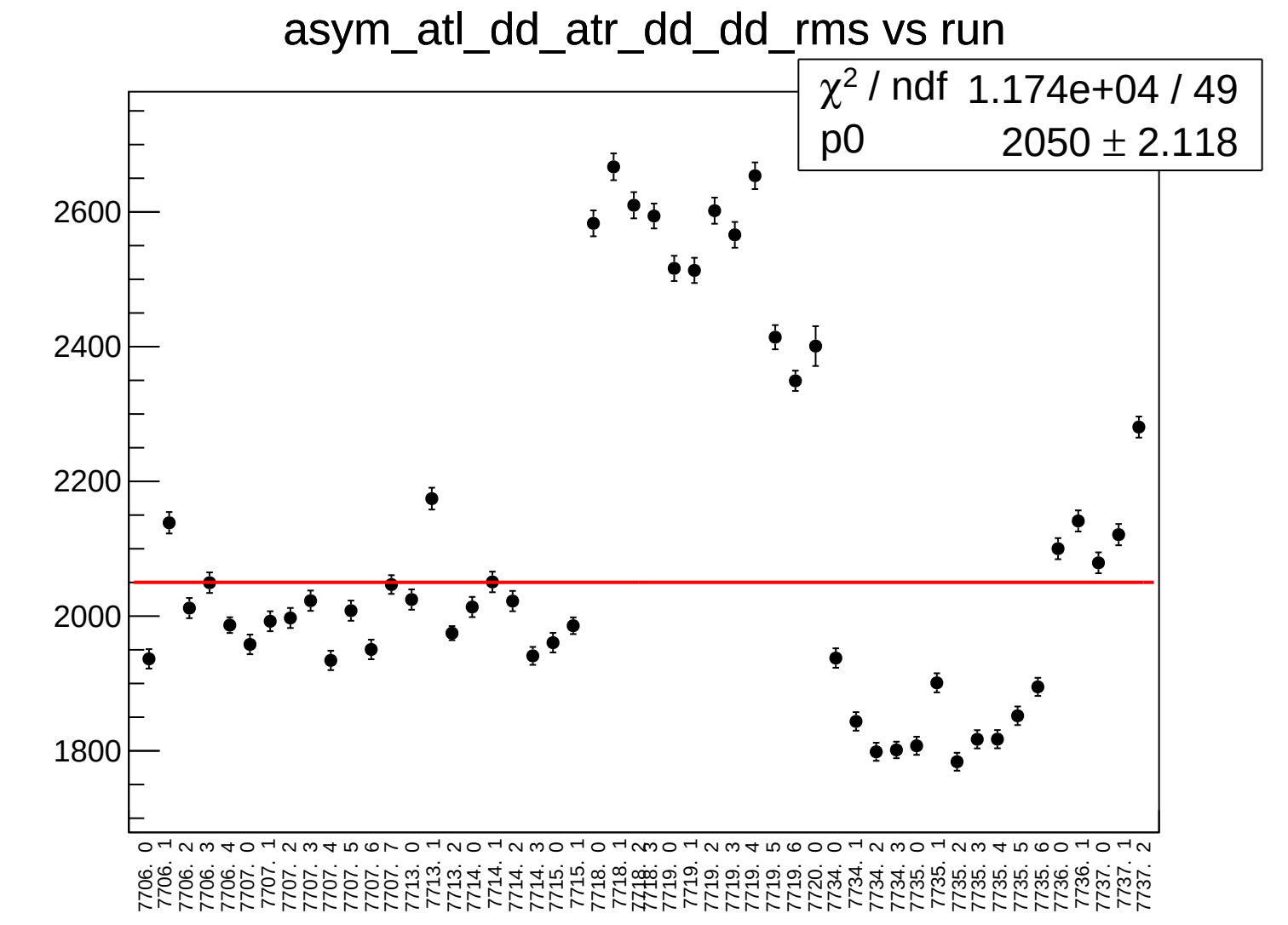
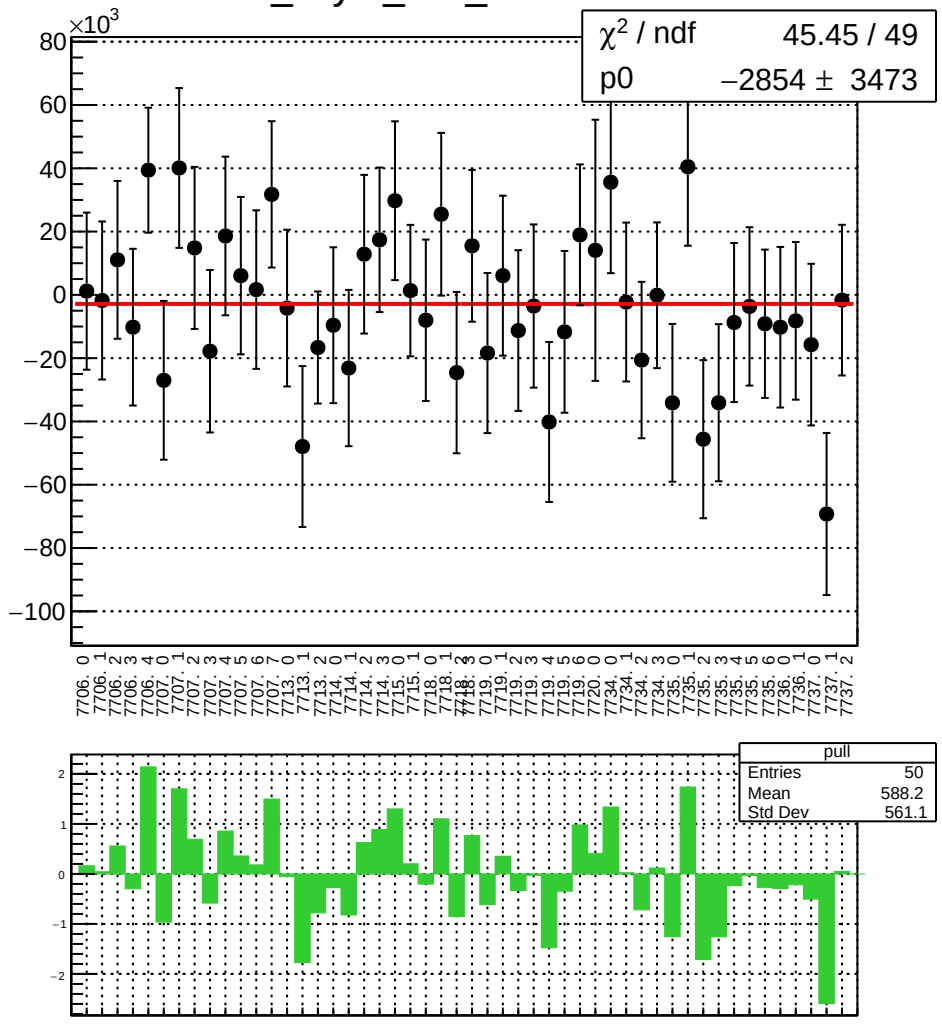
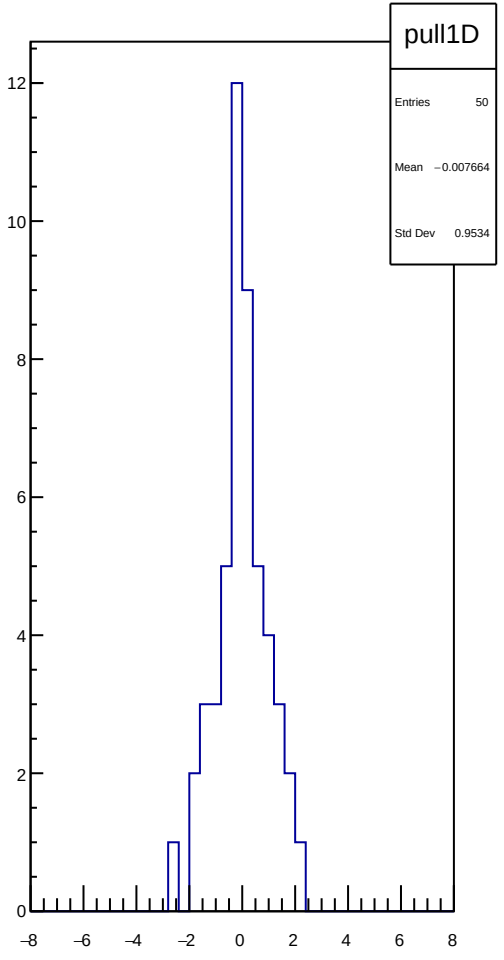
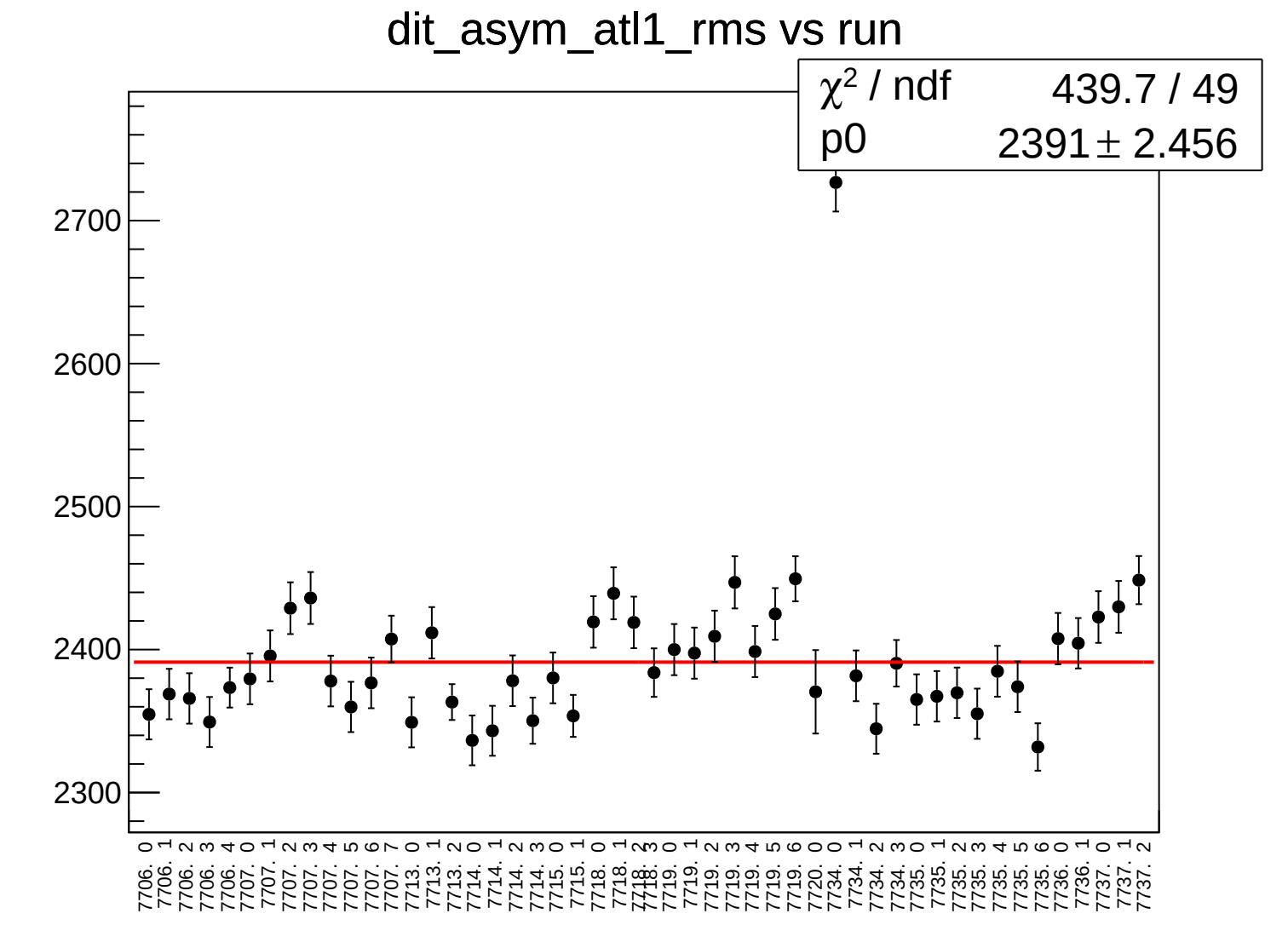
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

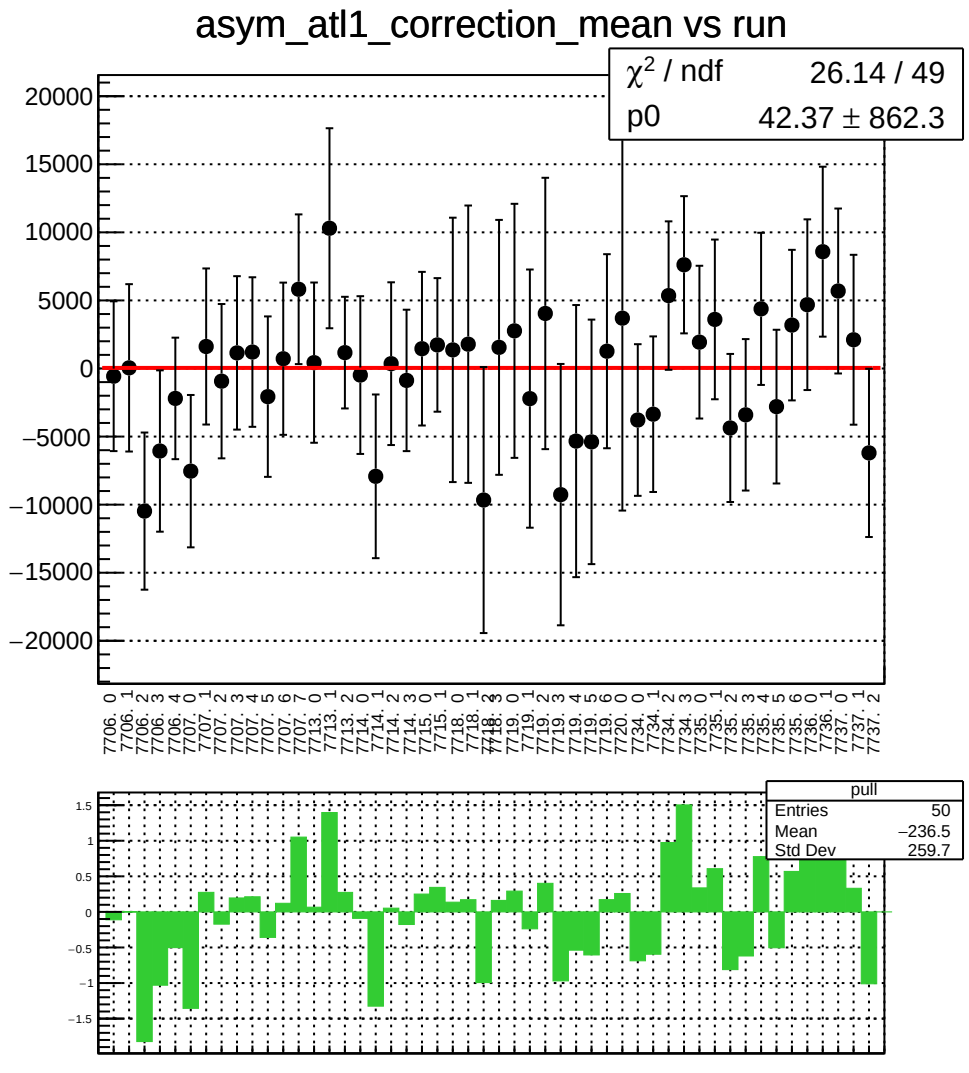

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 45.95 / 49
p0 −2020 ± 2995
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −446.2
Std Dev 471.6
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.01013
Std Dev 0.9586
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

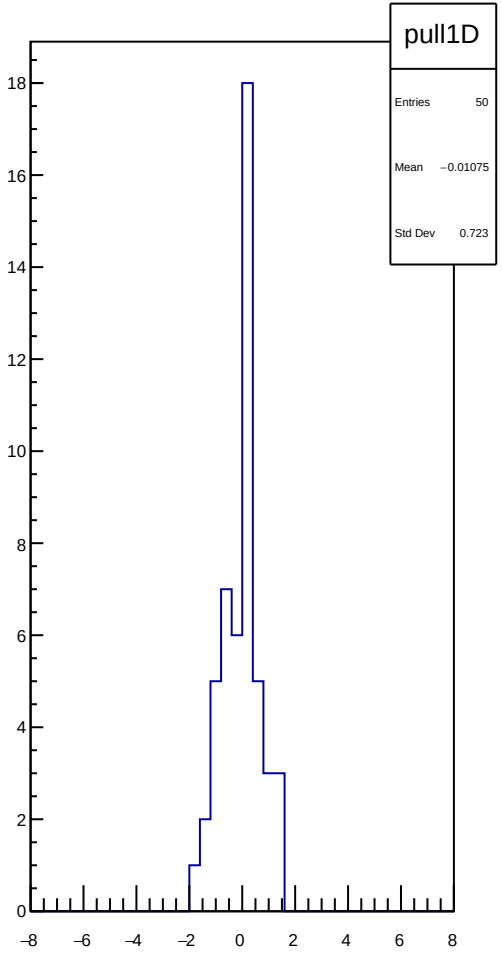

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.174e+04 / 49
p0 2050 ± 2.118
2600
2400
2200
2000
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

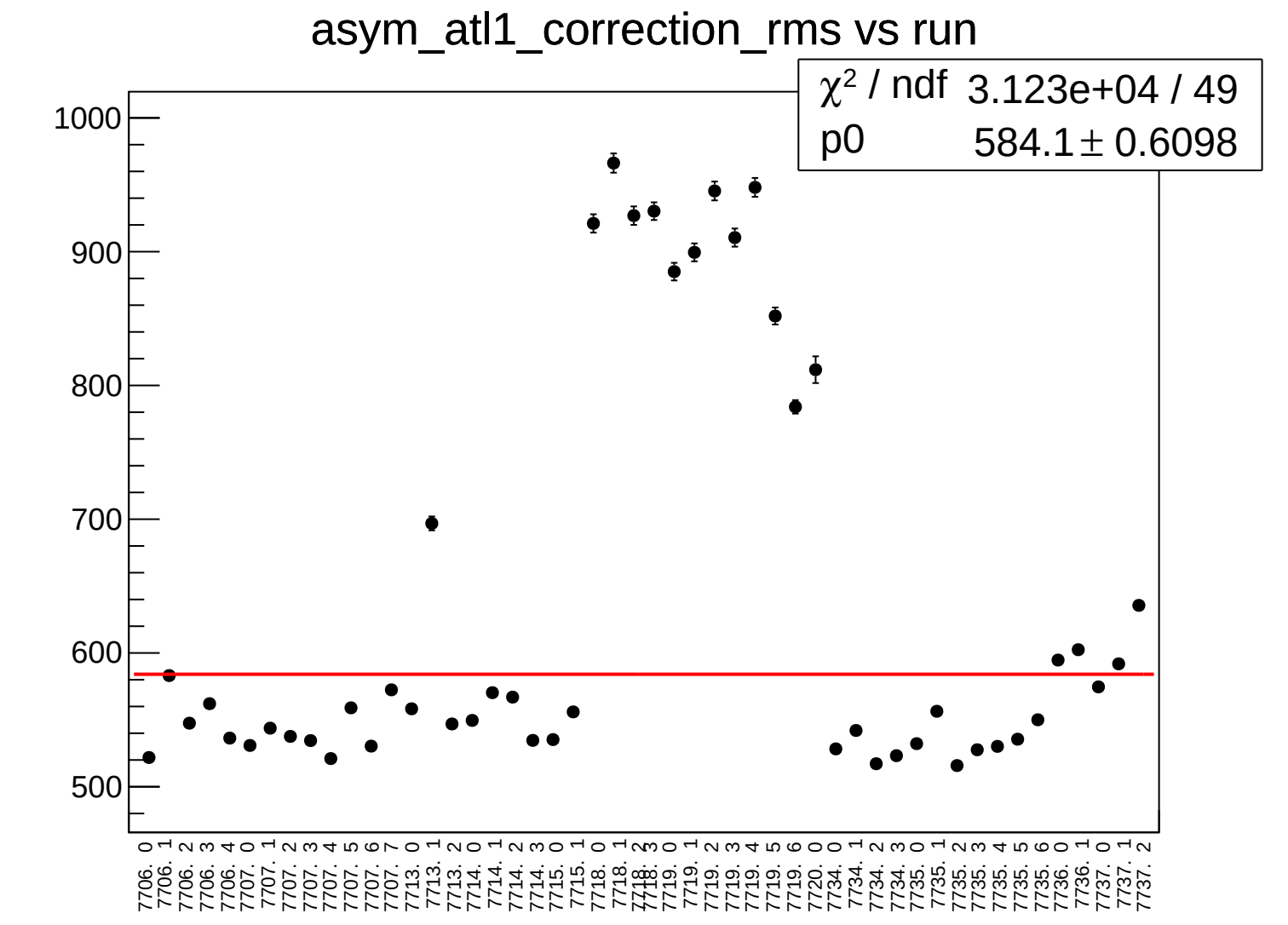

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 45.45 / 49
p0 −2854 ± 3473
pull
Entries 50
Mean 588.2
Std Dev 561.1


pull1D
Entries 50
Mean −0.007664
Std Dev 0.9534


dit_asym_atl1_rms vs run
χ² / ndf 439.7 / 49
p0 2391 ± 2.456
2700
2600
2500
2400
2300
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_atl1_correction_mean vs run
χ² / ndf 26.14 / 49
p0 42.37 ± 862.3
pull
Entries 50
Mean −236.5
Std Dev 259.7


pull1D
Entries 50
Mean −0.01075
Std Dev 0.723


asym_atl1_correction_rms vs run
χ² / ndf 3.123e+04 / 49
p0 584.1 ± 0.6098
1000
900
800
700
600
500
17706. 0
17706. 1
17706. 2
17706. 3
17706. 4
17707. 0
17707. 1
17707. 2
17707. 3
17707. 4
17707. 5
17707. 6
17707. 7
17713. 0
17713. 1
17713. 2
17714. 0
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17714. 2
17714. 3
17715. 0
17715. 1
17718. 0
17718. 1
17718. 2
17718. 3
17719. 0
17719. 1
17719. 2
17719. 3
17719. 4
17719. 5
17719. 6
17720. 0
17734. 0
17734. 1
17734. 2
17734. 3
17735. 0
17735. 1
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17735. 4
17735. 5
17735. 6
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17737. 0
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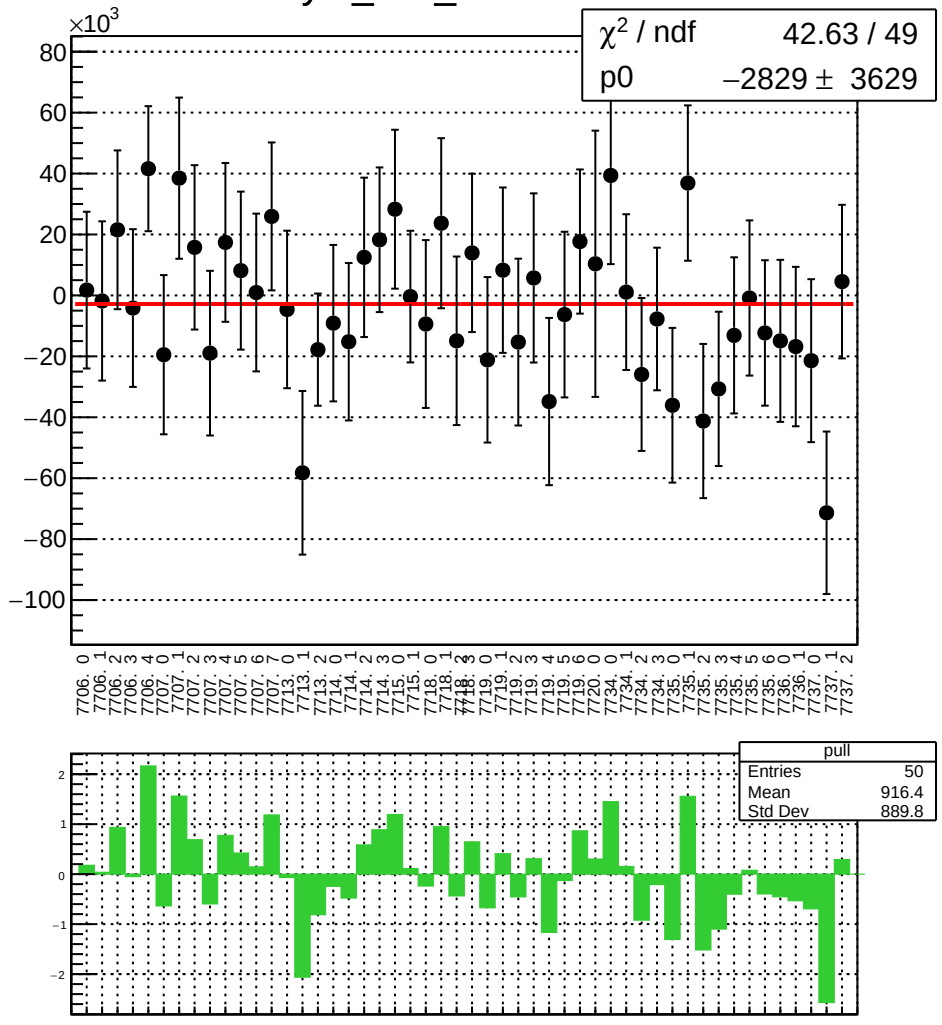
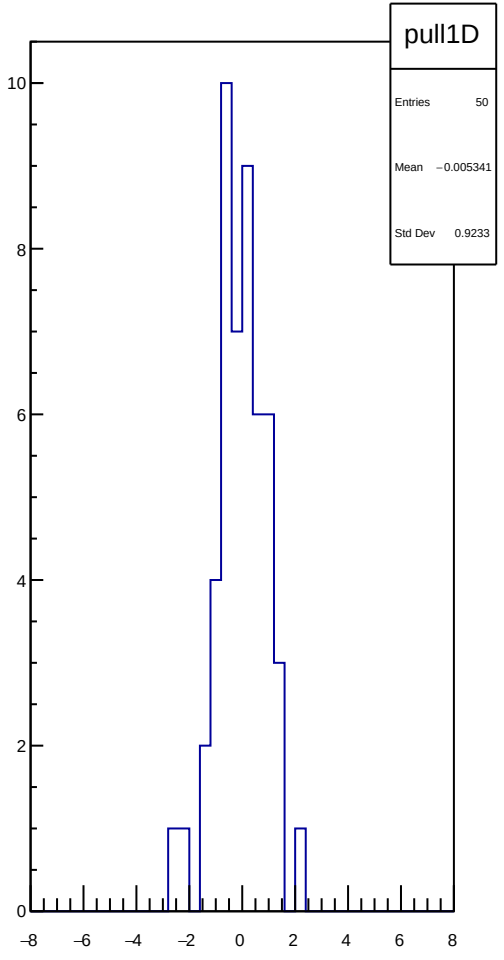
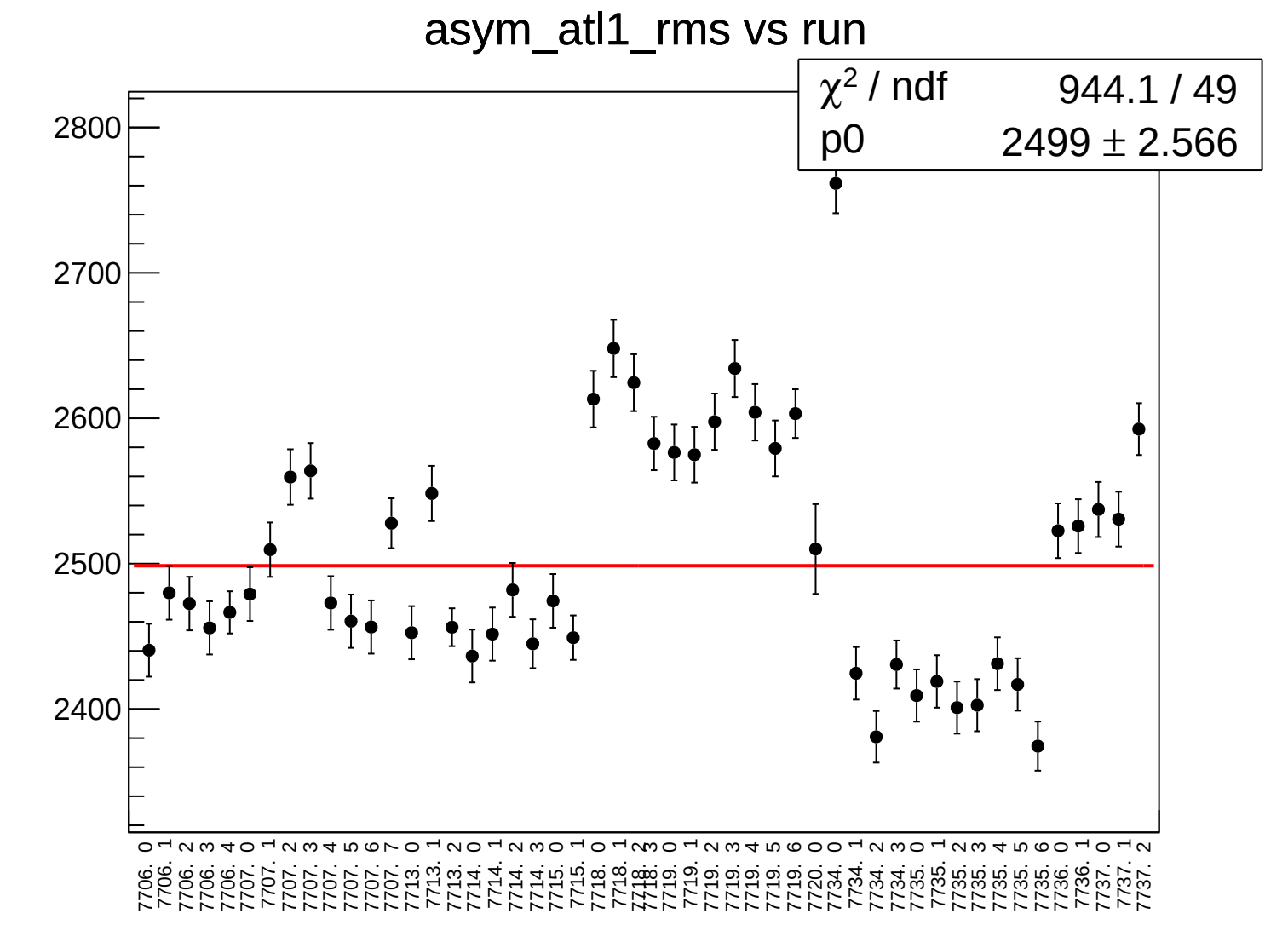
17737. 2


asym_atl1_mean vs run
×10^3
χ² / ndf 42.63 / 49
p0 −2829 ± 3629
pull
Entries 50
Mean 916.4
Std Dev 889.8


pull1D
Entries 50
Mean −0.005341
Std Dev 0.9233


asym_atl1_rms vs run
χ² / ndf 944.1 / 49
p0 2499 ± 2.566
2800
2700
2600
2500
2400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
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7719. 2
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7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
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7734. 2
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7735. 1
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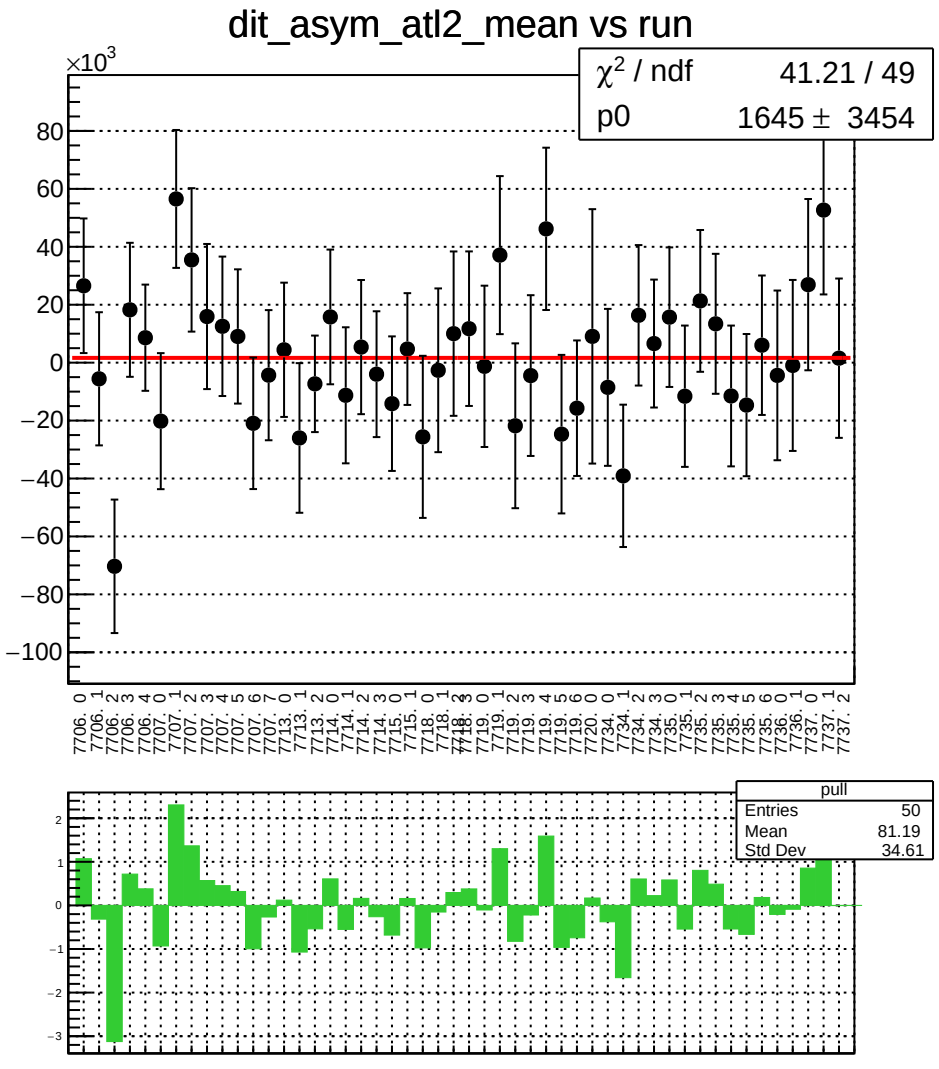
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_atl2_mean vs run
×10^3
χ² / ndf 41.21 / 49
p0 1645 ± 3454
80
60
40
20
0
−20
−40
−60
−80
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
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7734. 2
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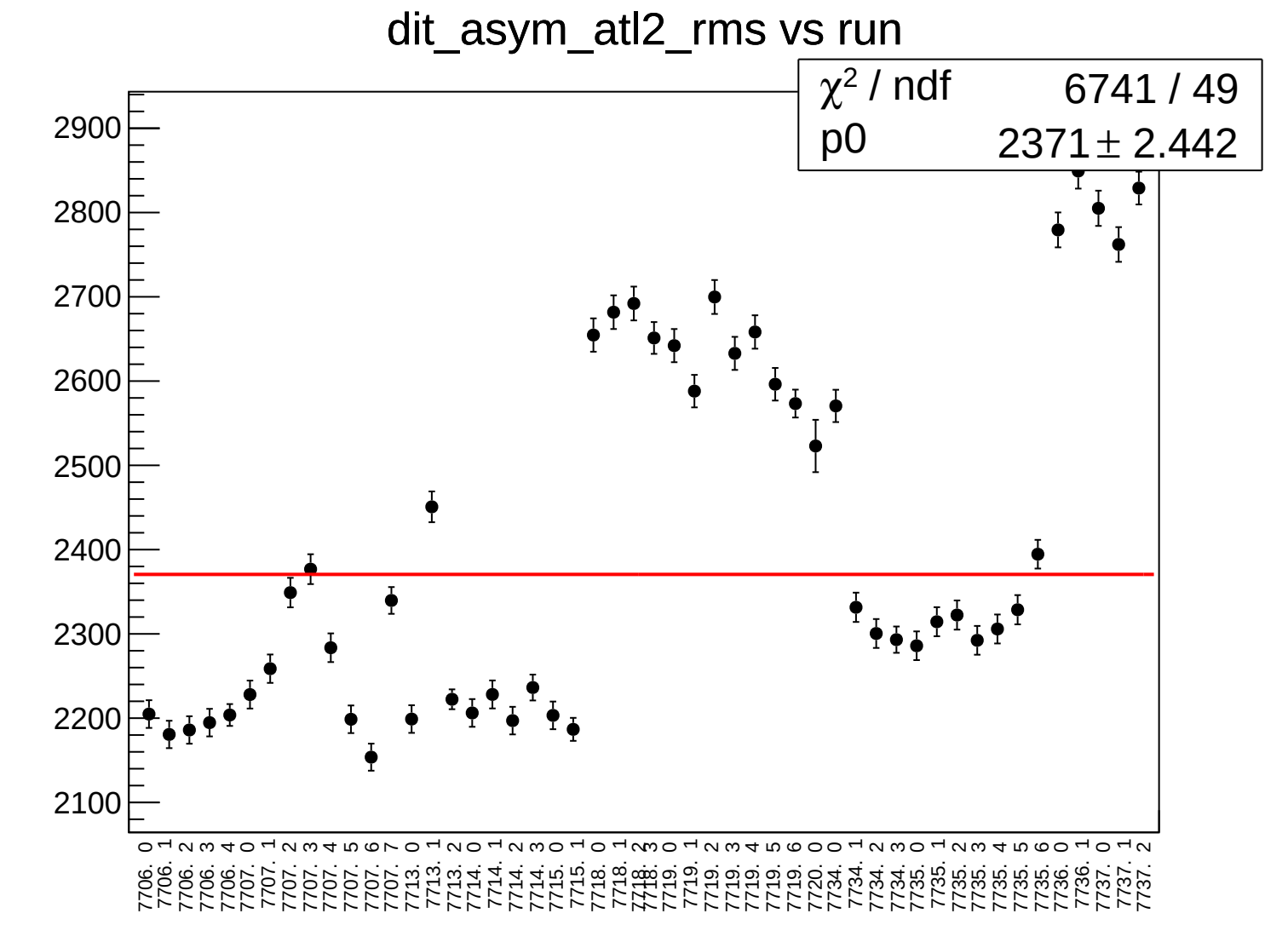
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 81.19
Std Dev 34.61
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.01348
Std Dev 0.9077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_atl2_rms vs run
χ² / ndf 6741 / 49
p0 2371 ± 2.442
2900
2800
2700
2600
2500
2400
2300
2200
2100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
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7735. 1
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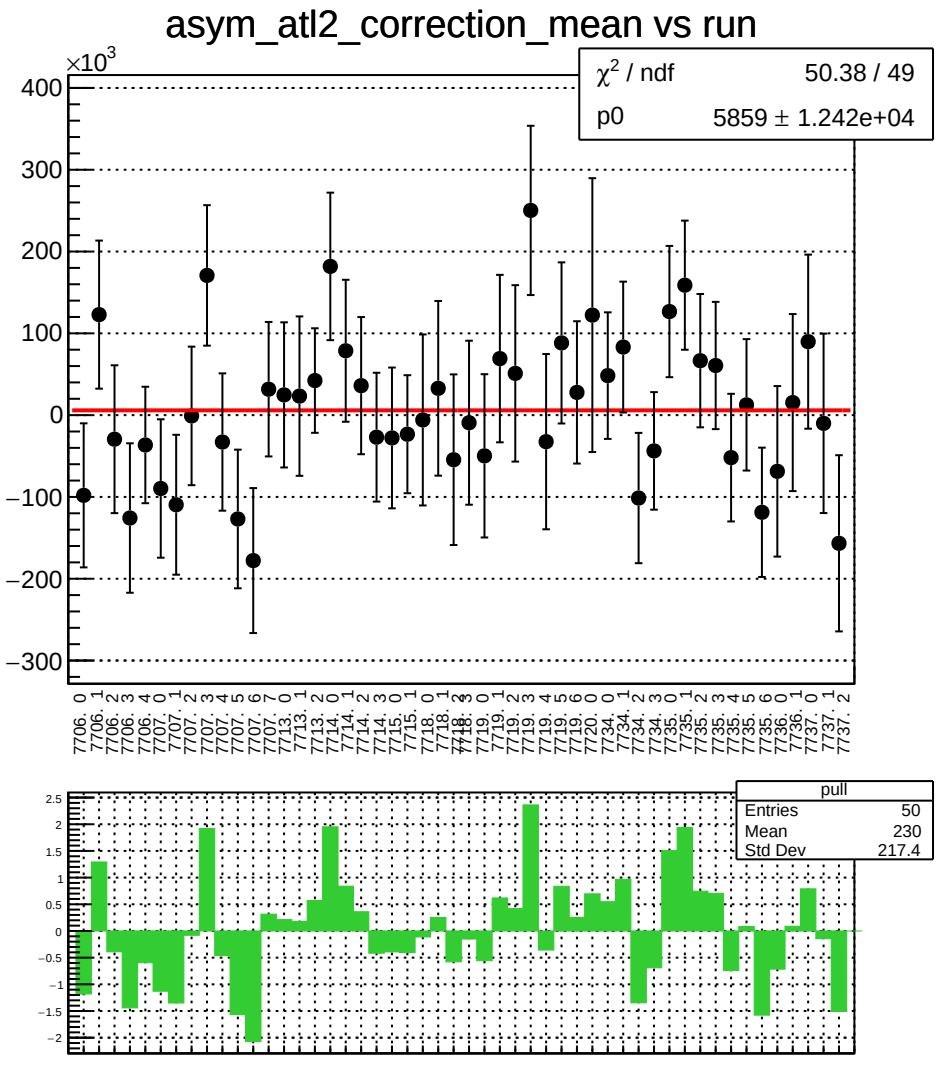
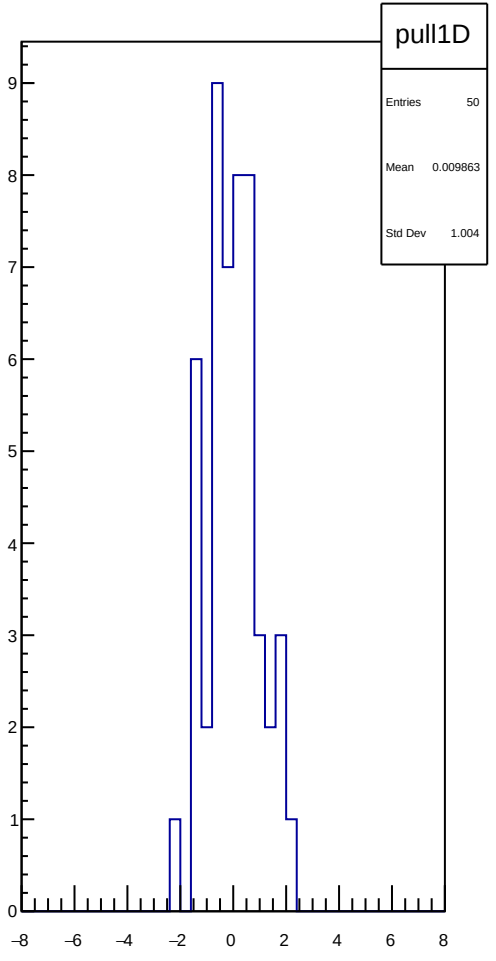
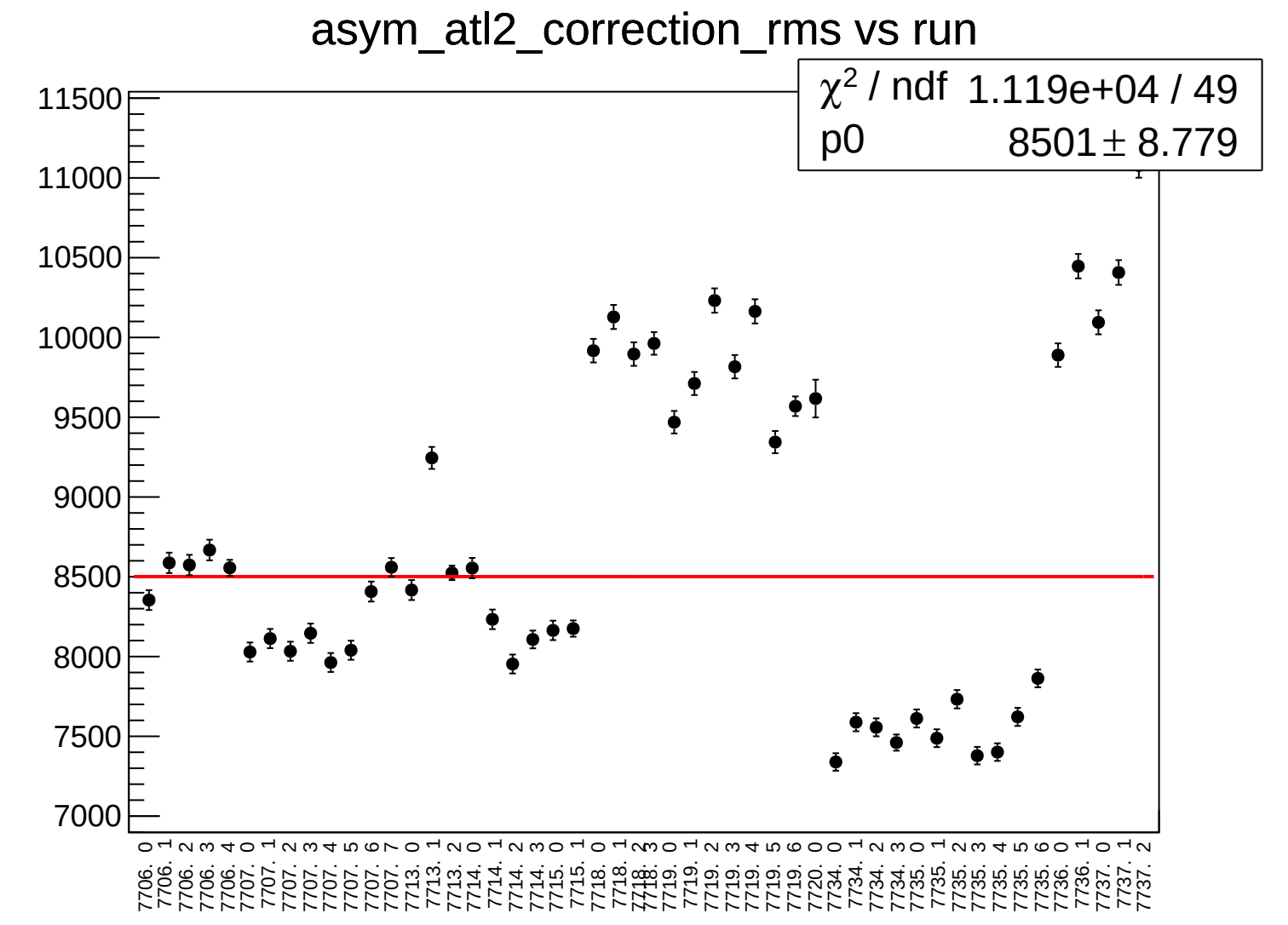
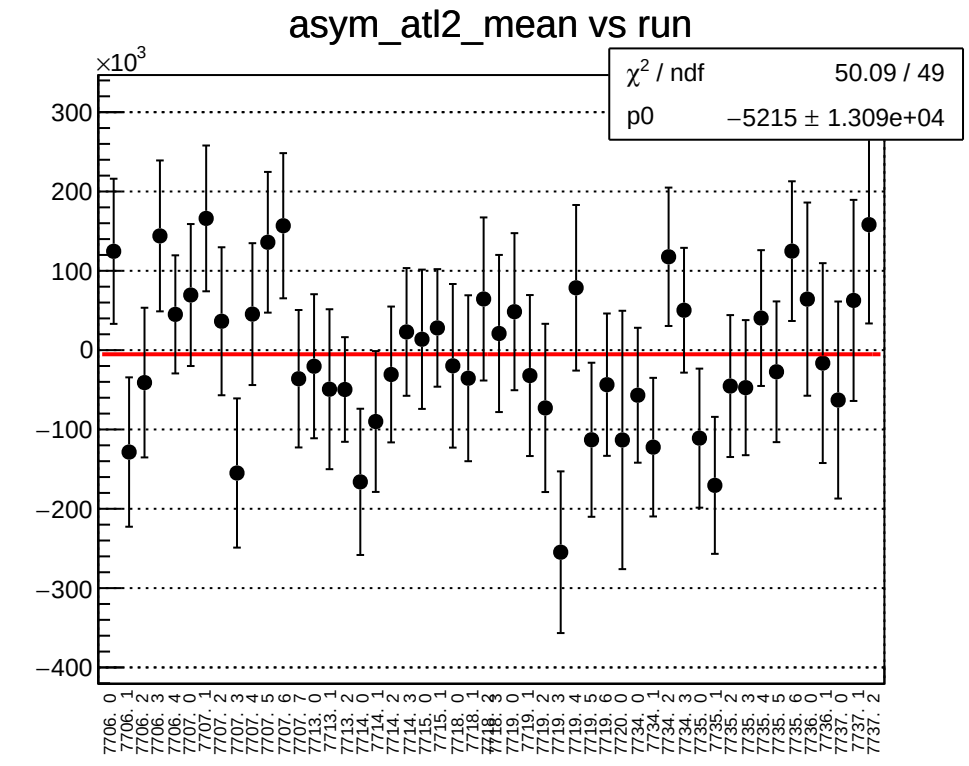
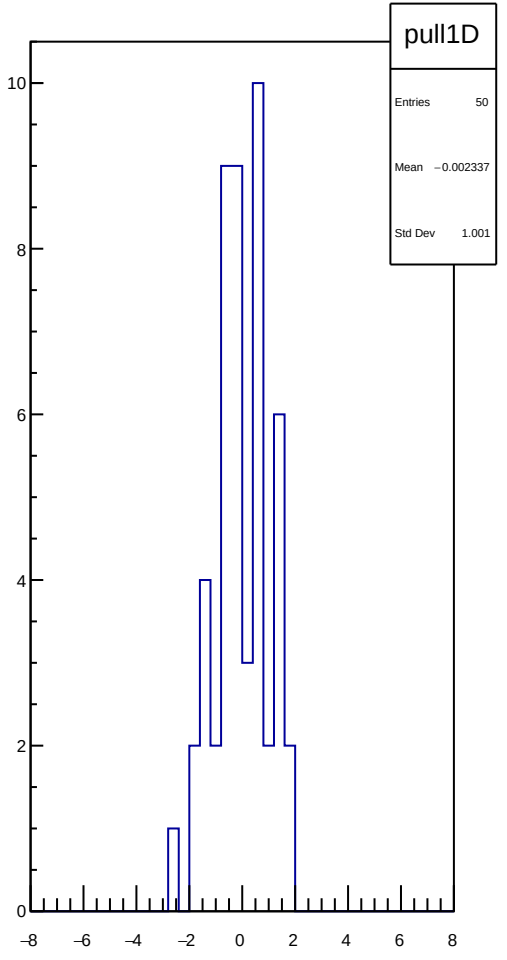
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

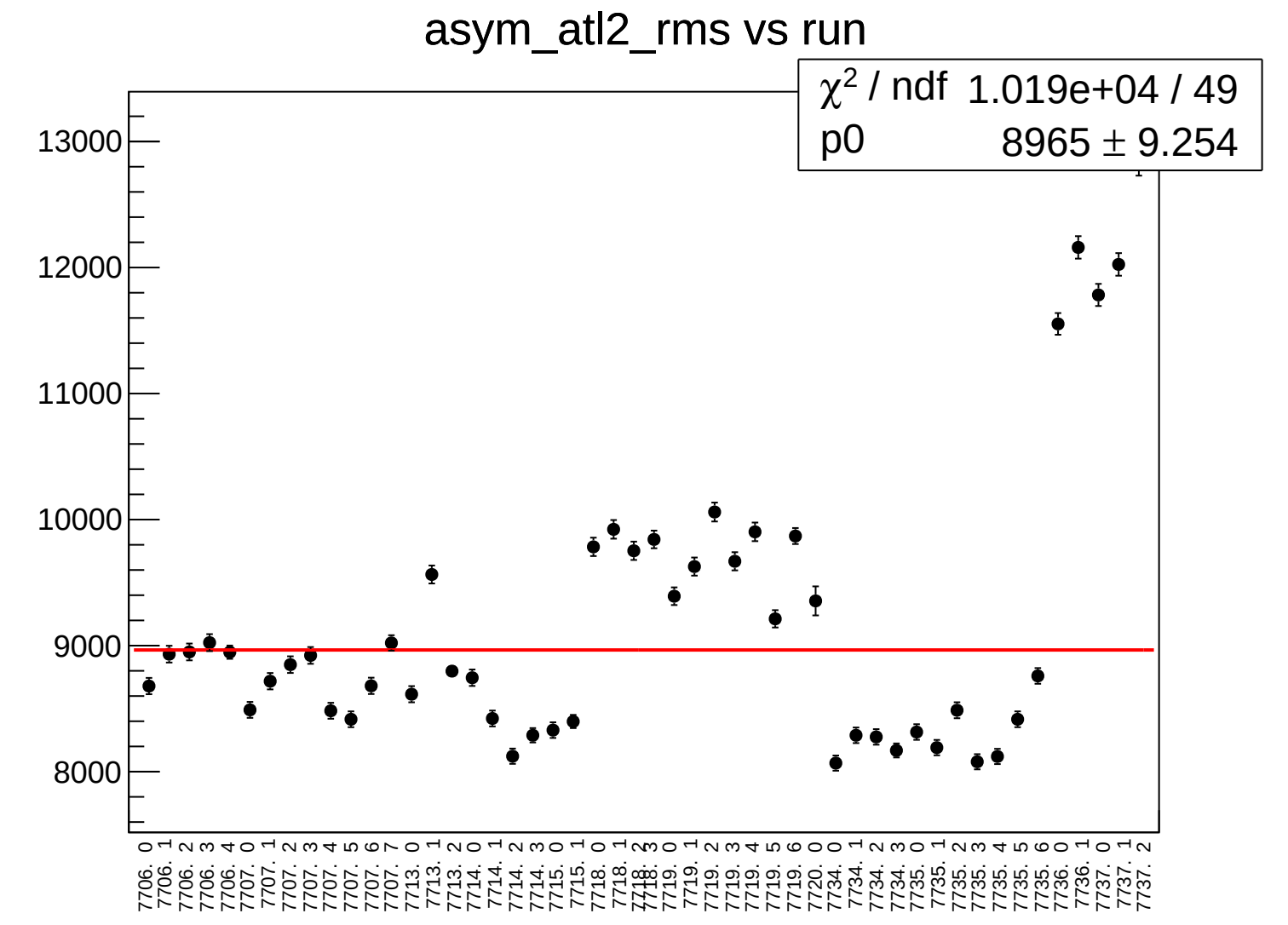

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 50.38 / 49
p0 5859 ± 1.242e+04
pull
Entries 50
Mean 230
Std Dev 217.4

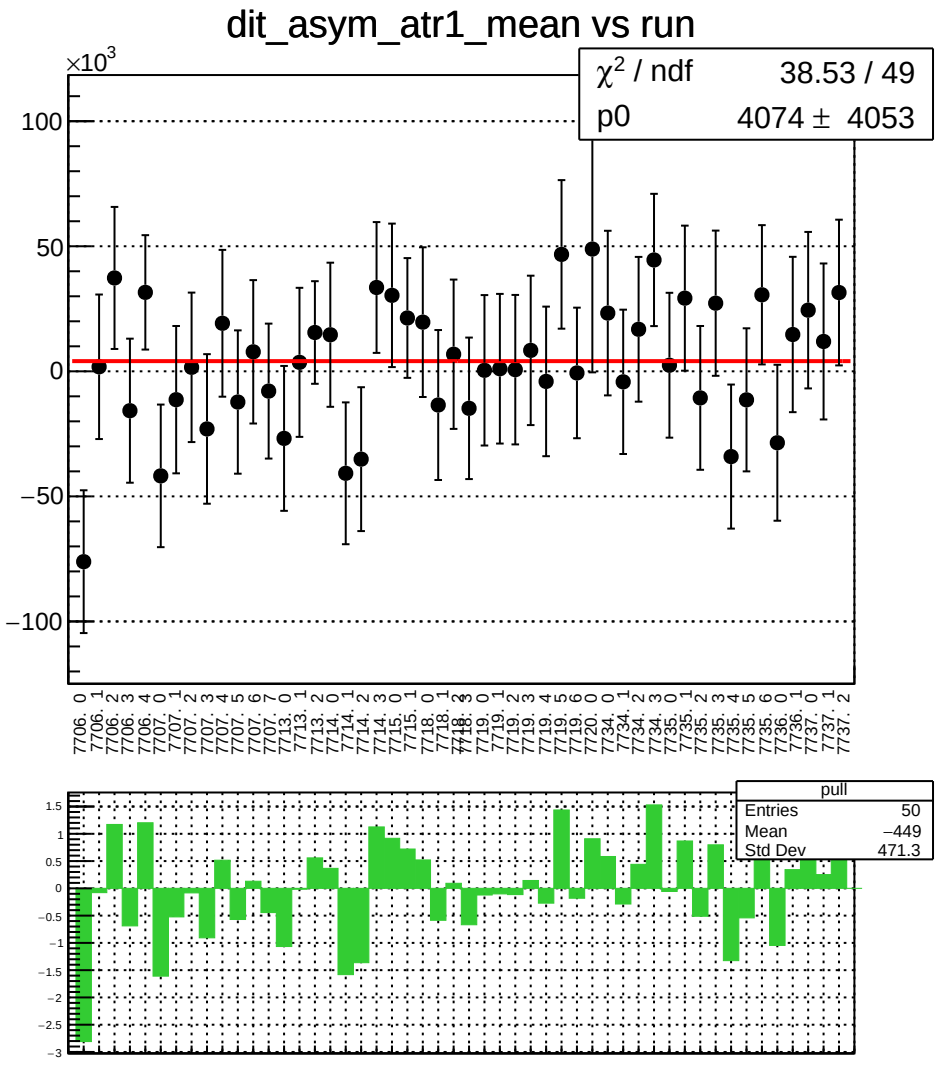

pull1D
Entries 50
Mean 0.009863
Std Dev 1.004

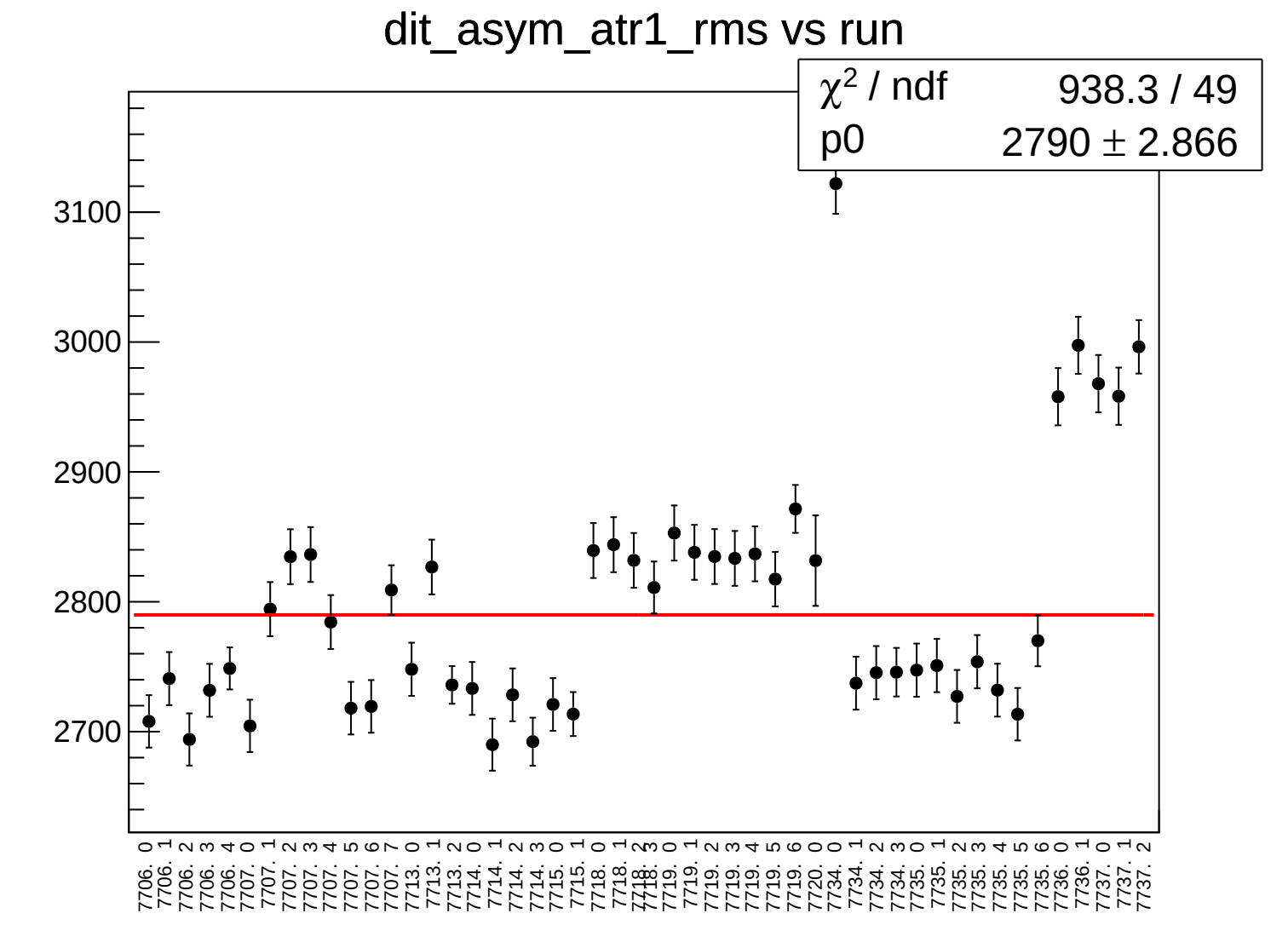

asym_atl2_correction_rms vs run
χ² / ndf 1.119e+04 / 49
p0 8501 ± 8.779
11500
11000
10500
10000
9500
9000
8500
8000
7500
7000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

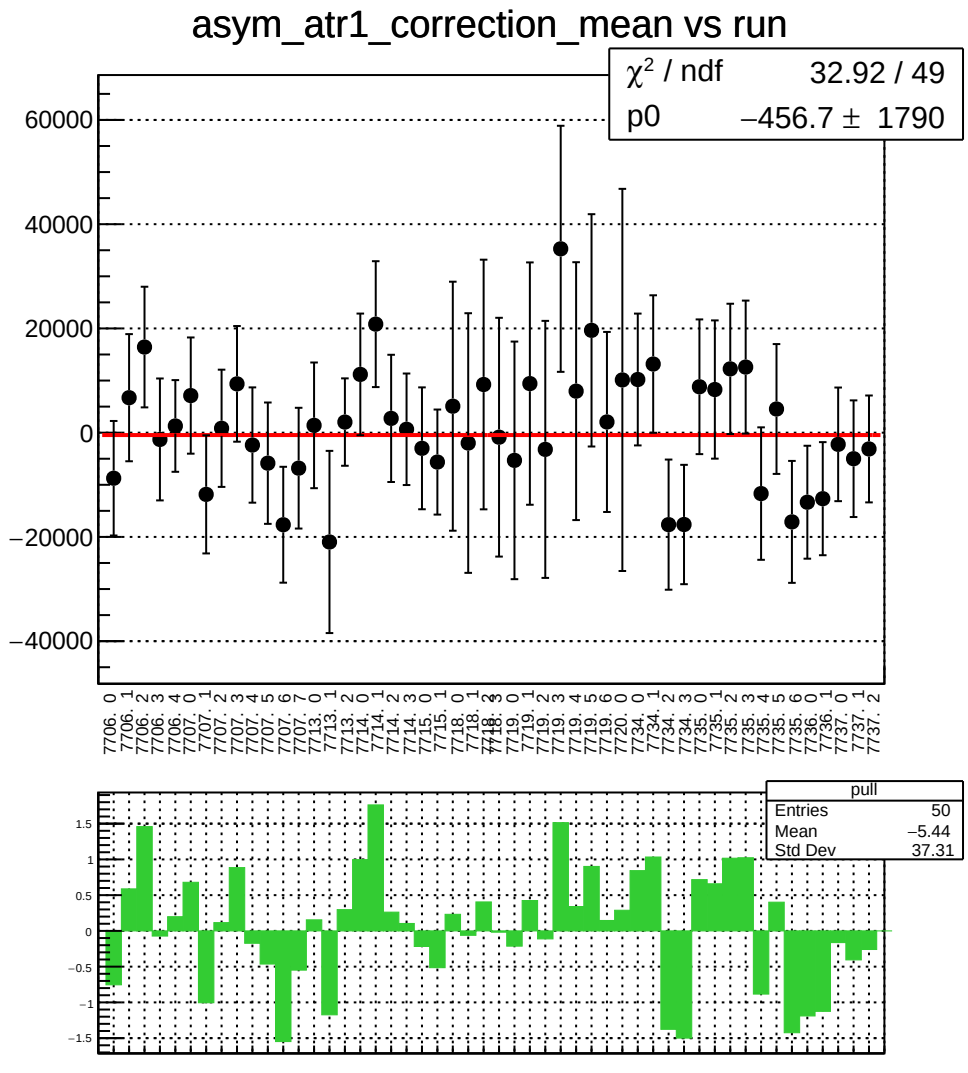

asym_atl2_mean vs run
×10^3
χ² / ndf 50.09 / 49
p0 −5215 ± 1.309e+04
300
200
100
0
−100
−200
−300
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 836.7
Std Dev 826.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

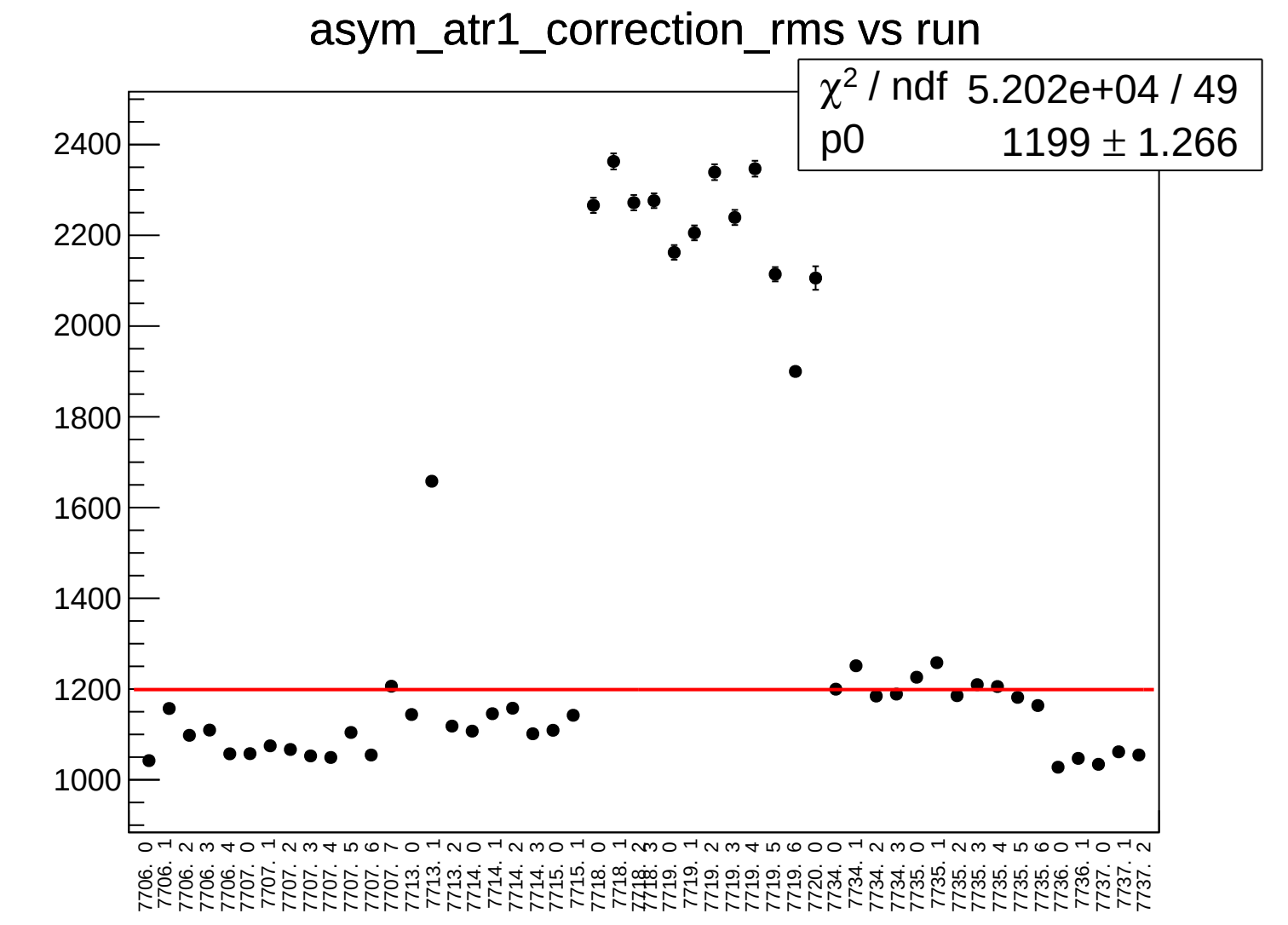

pull1D
Entries 50
Mean −0.002337
Std Dev 1.001
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

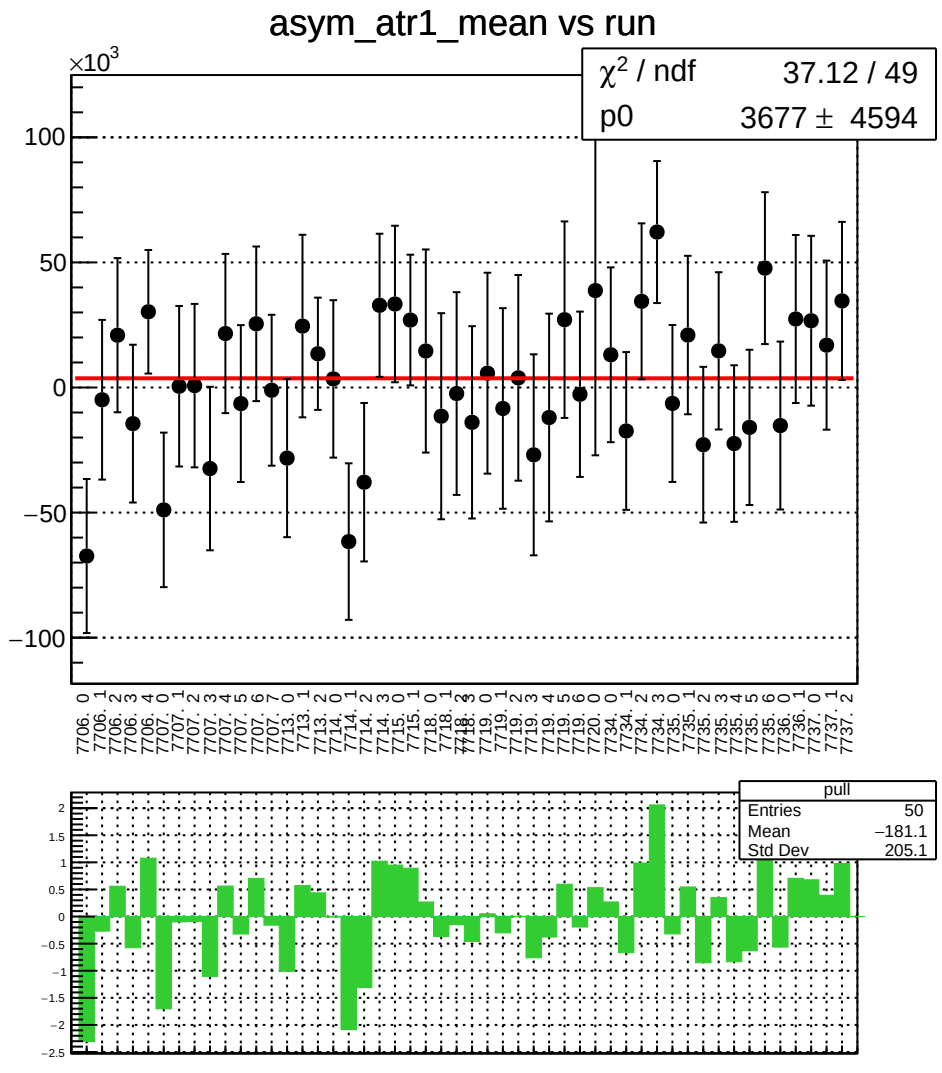

asym_atl2_rms vs run
χ² / ndf 1.019e+04 / 49
p0 8965 ± 9.254
13000
12000
11000
10000
9000
8000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

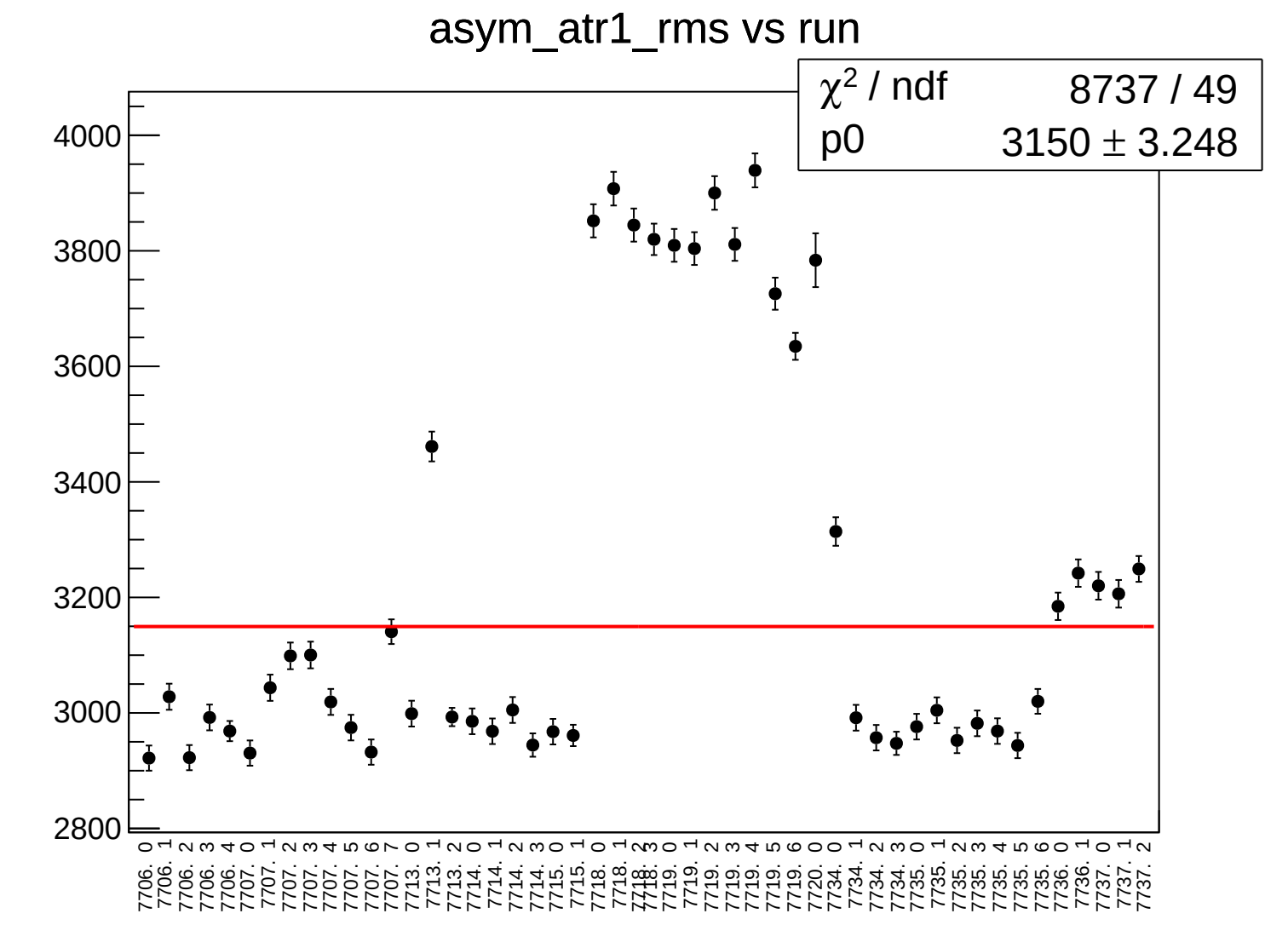

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 38.53 / 49
p0 4074 ± 4053
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −449
Std Dev 471.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 50
Mean −0.007588
Std Dev 0.8778
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

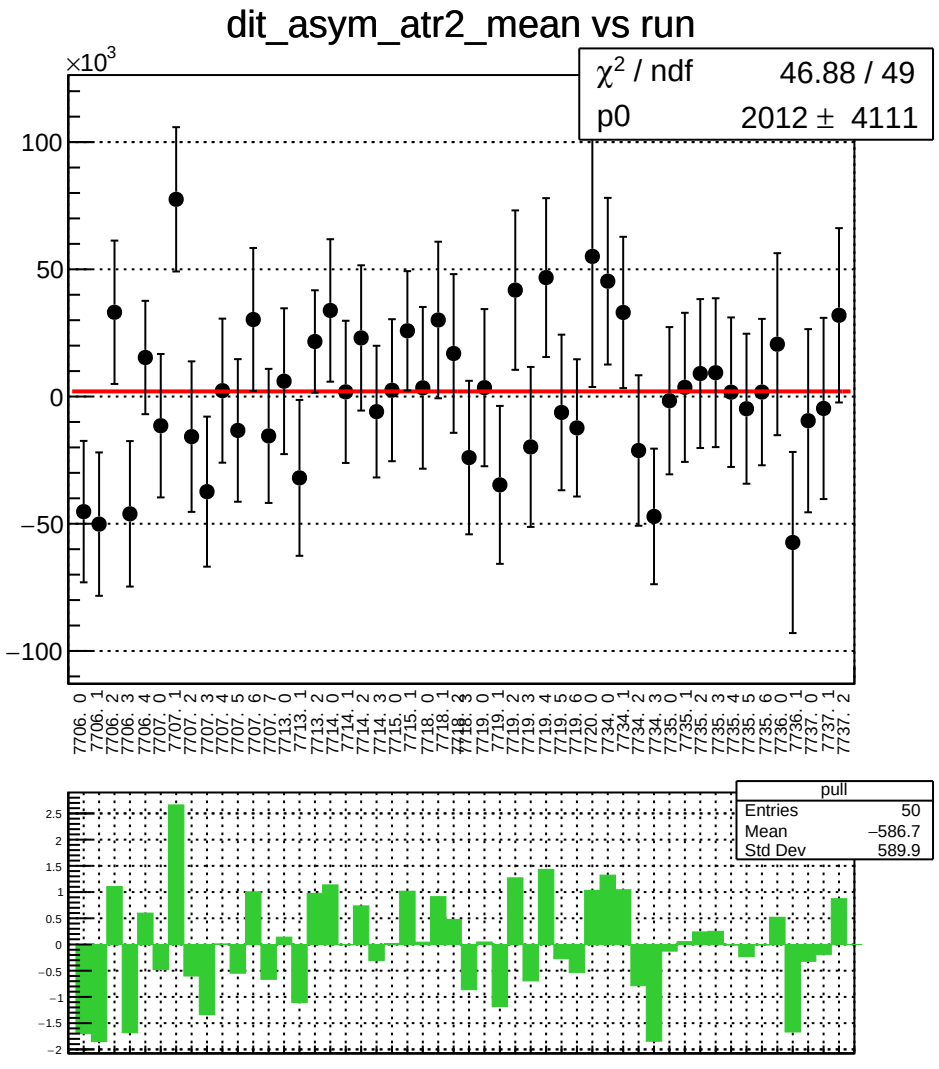

dit_asym_atr1_rms vs run
χ^2 / ndf 938.3 / 49
p0 2790 ± 2.866
3100
3000
2900
2800
2700
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

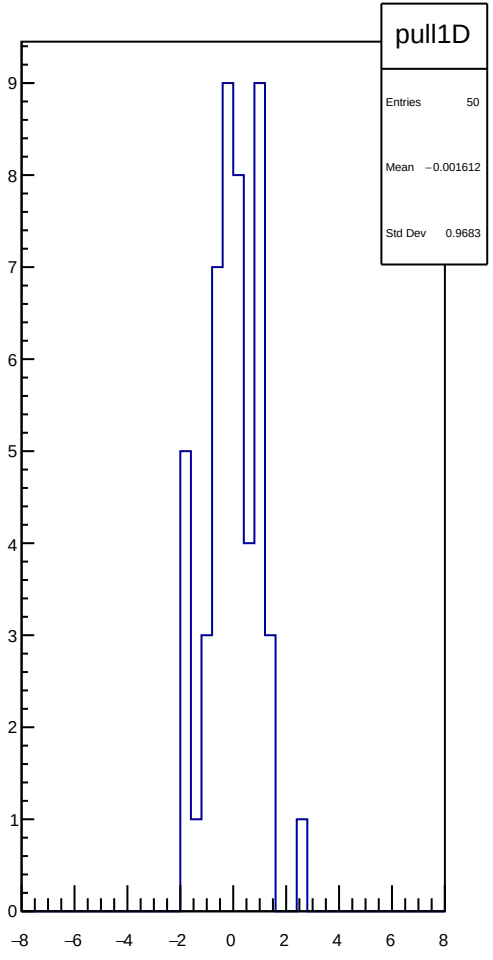

asym_atr1_correction_mean vs run
χ² / ndf 32.92 / 49
p0 −456.7 ± 1790
60000
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −5.44
Std Dev 37.31
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.0449
Std Dev 0.8101
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

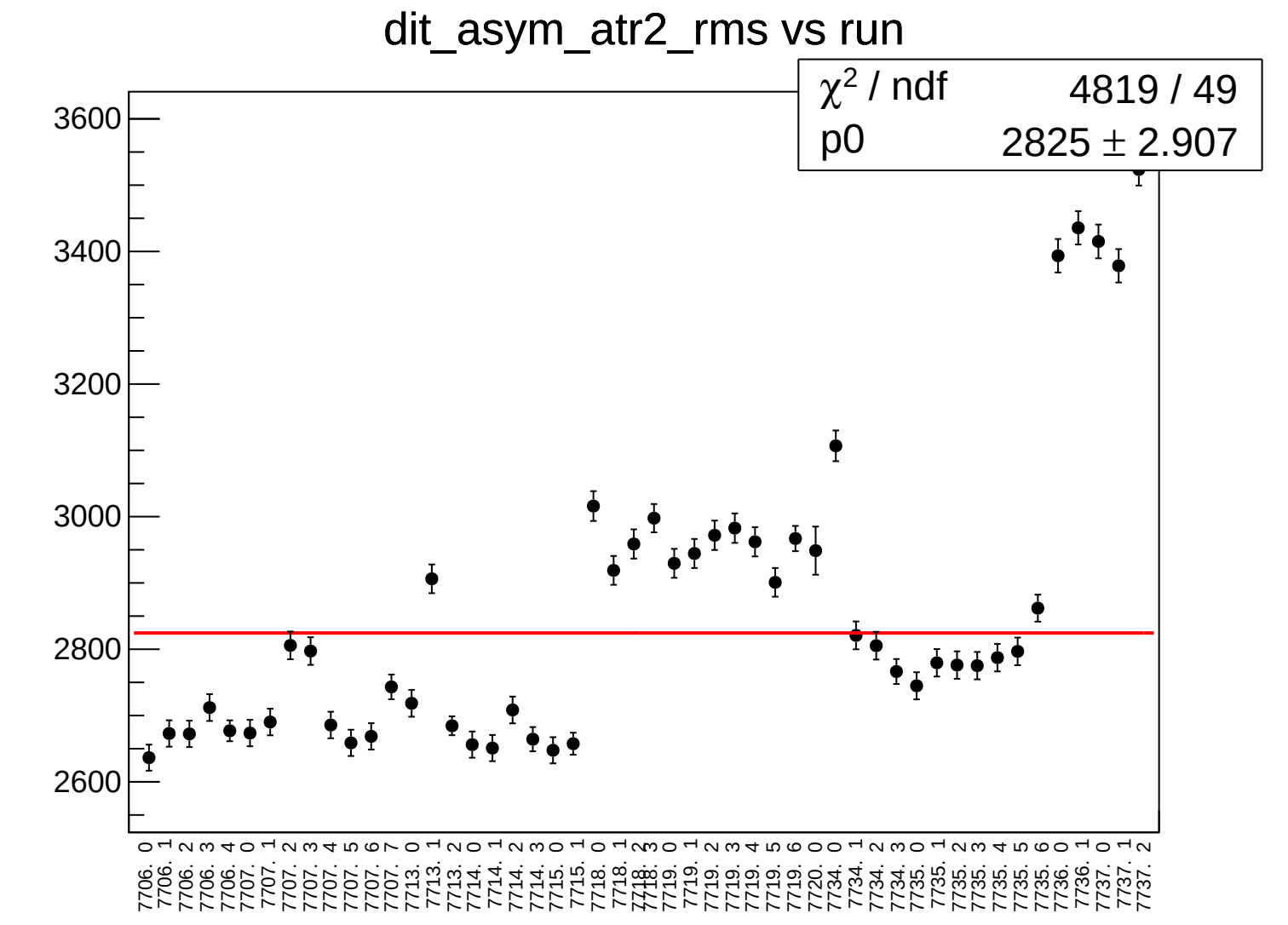

asym_atr1_correction_rms vs run
χ² / ndf 5.202e+04 / 49
p0 1199 ± 1.266
2400
2200
2000
1800
1600
1400
1200
1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

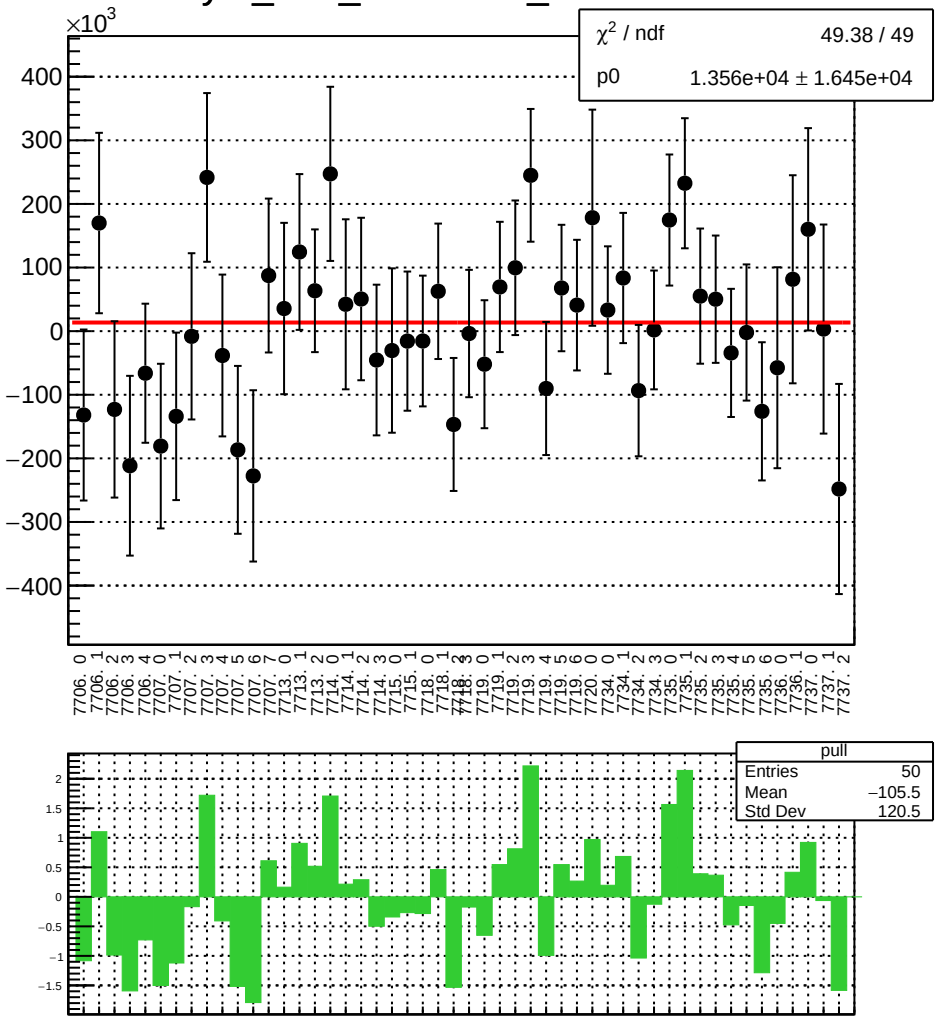

asym_atr1_mean vs run
×10^3
χ² / ndf 37.12 / 49
p0 3677 ± 4594
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −181.1
Std Dev 205.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean −0.01745
Std Dev 0.8615
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

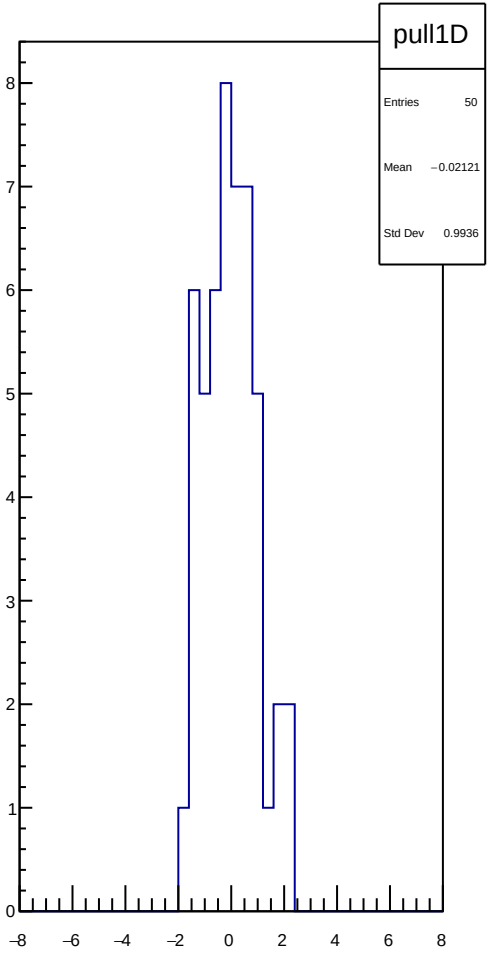

asym_atr1_rms vs run
χ² / ndf 8737 / 49
p0 3150 ± 3.248
4000
3800
3600
3400
3200
3000
2800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

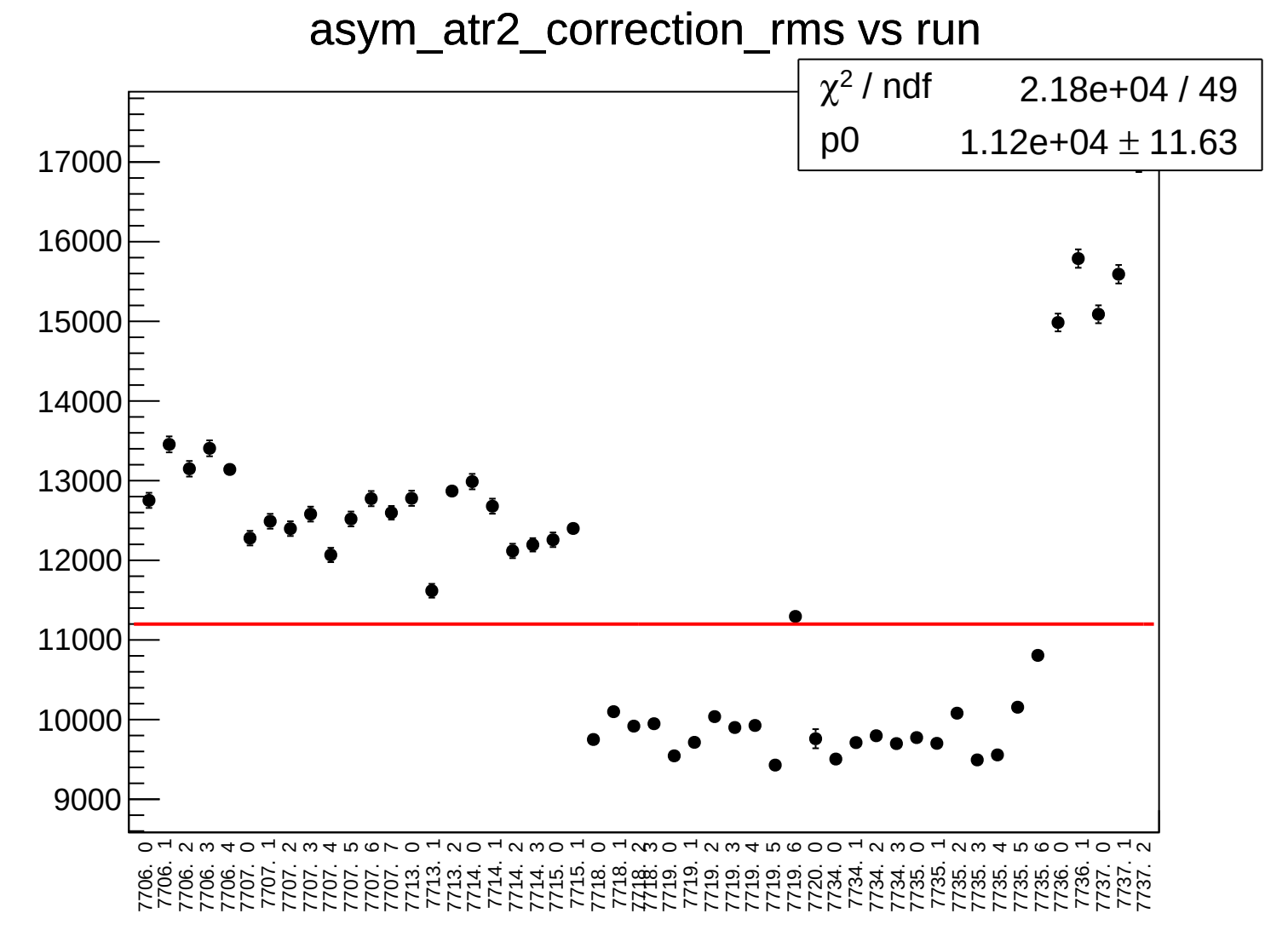

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 46.88 / 49
p0 2012 ± 4111
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −586.7
Std Dev 589.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

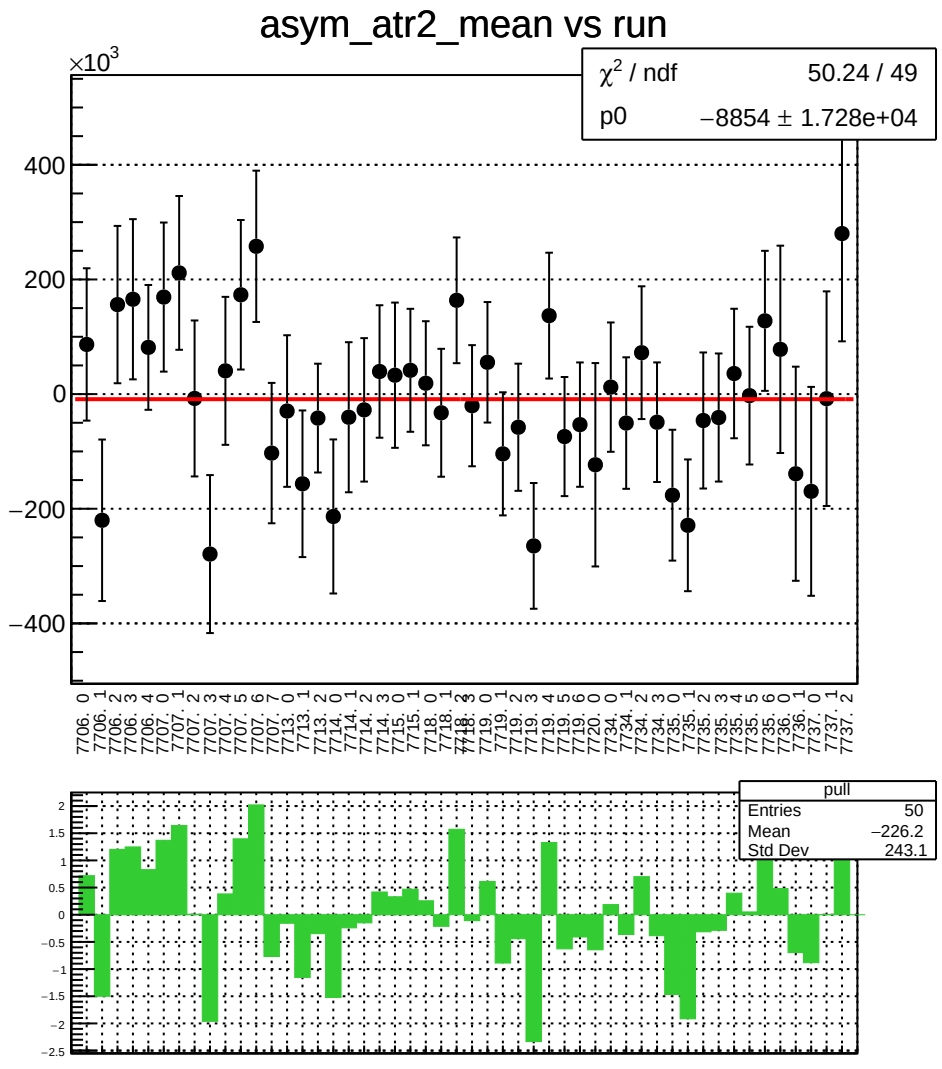

pull1D
Entries 50
Mean −0.001612
Std Dev 0.9683
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

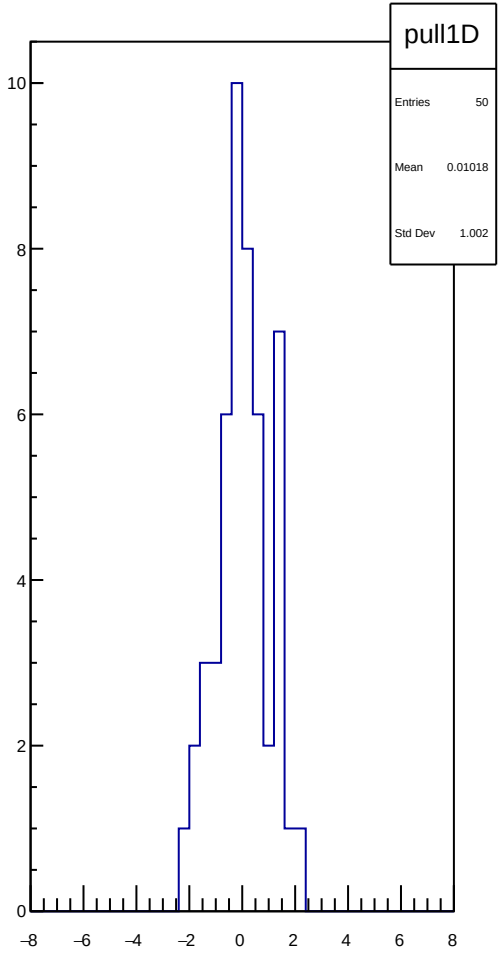

dit_asym_atr2_rms vs run
χ² / ndf 4819 / 49
p0 2825 ± 2.907
3600
3400
3200
3000
2800
2600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

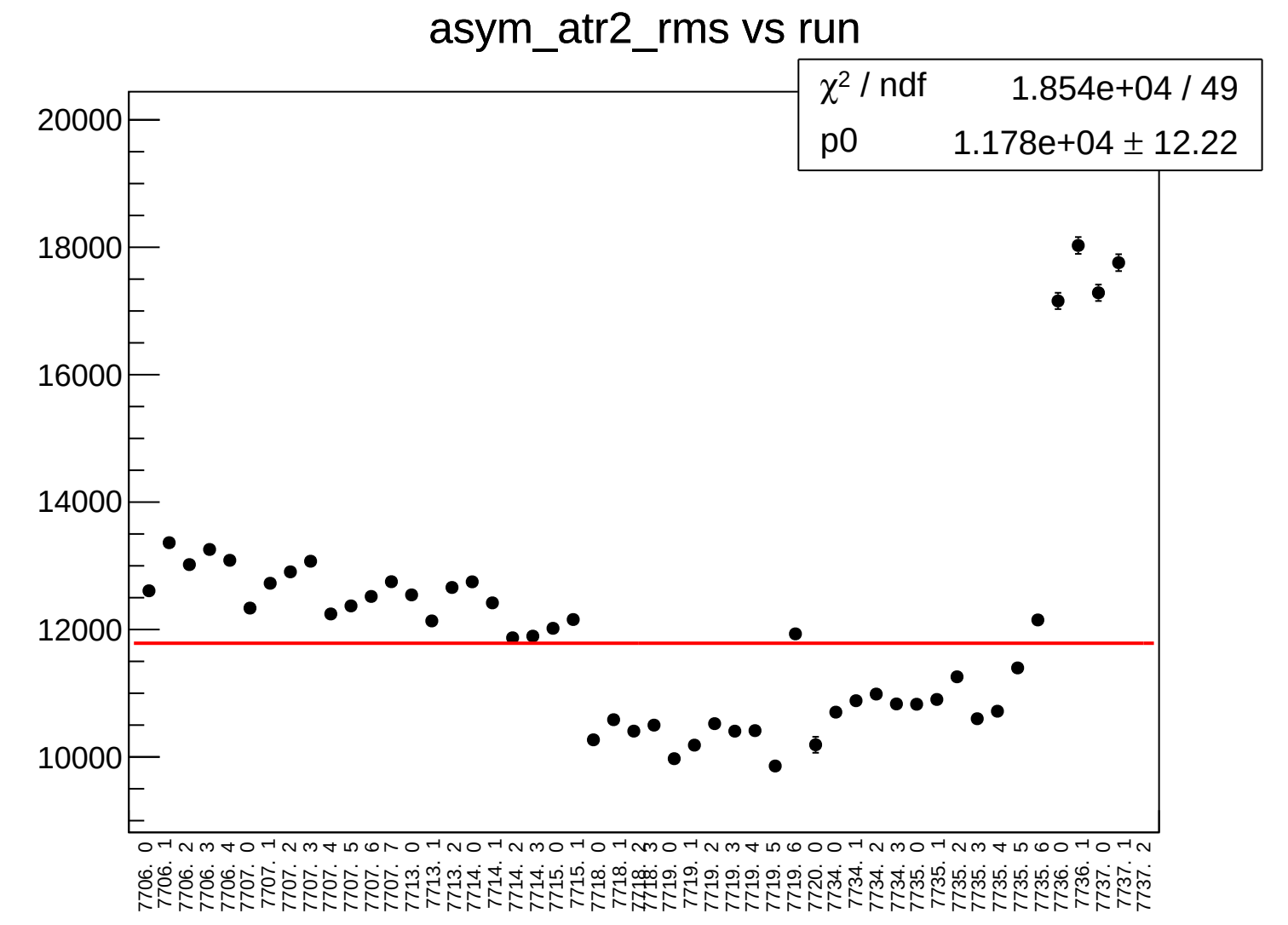

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 49.38 / 49
p0 1.356e+04 ± 1.645e+04
pull
Entries 50
Mean −105.5
Std Dev 120.5

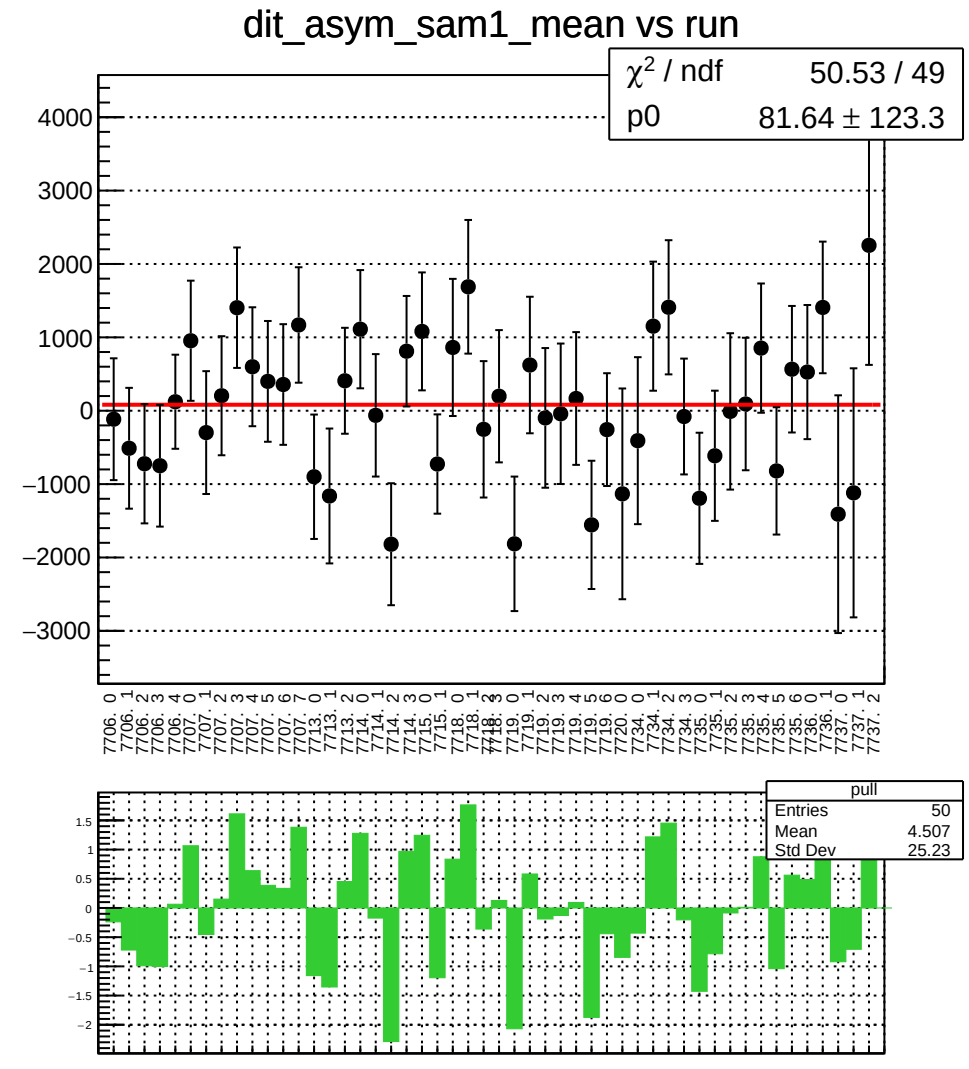

pull1D
Entries 50
Mean −0.02121
Std Dev 0.9936

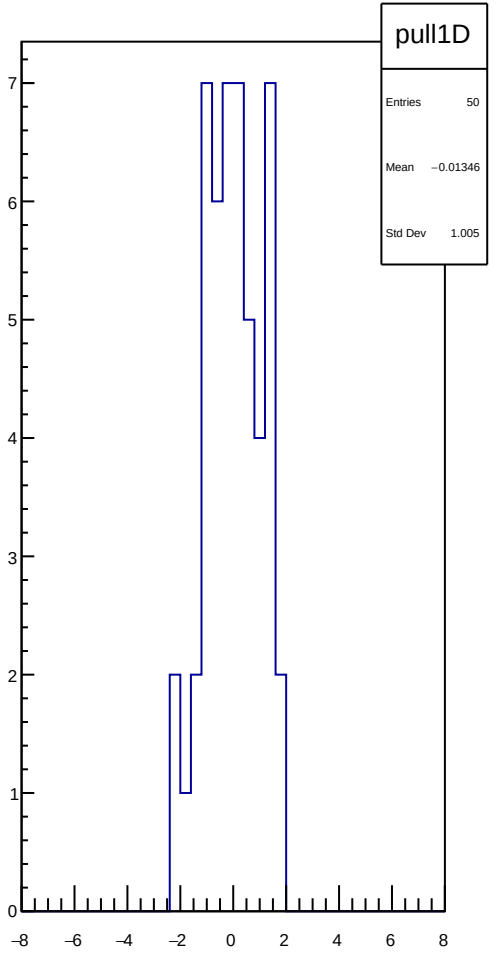

asym_atr2_correction_rms vs run
χ² / ndf 2.18e+04 / 49
p0 1.12e+04 ± 11.63
17000
16000
15000
14000
13000
12000
11000
10000
9000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

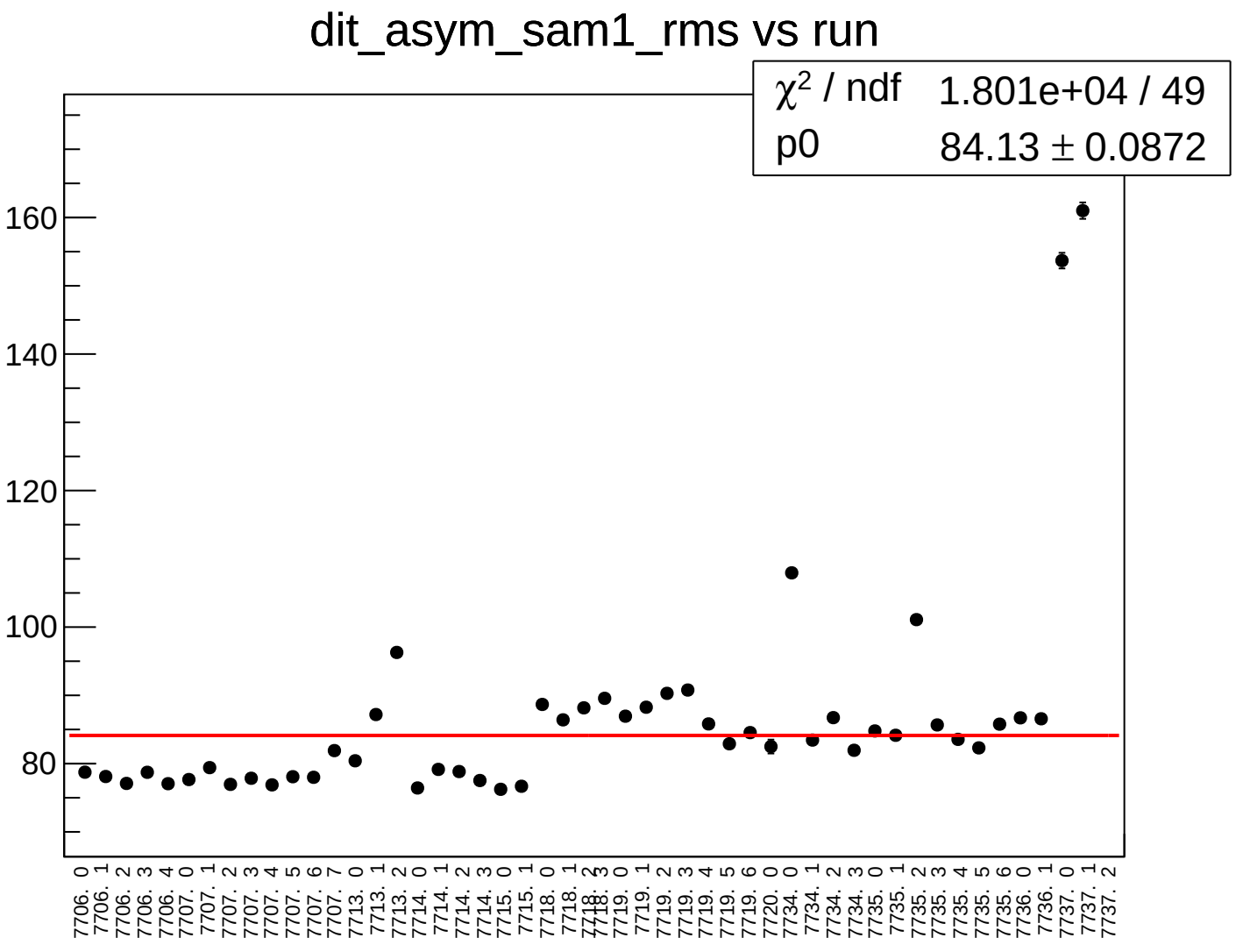

asym_atr2_mean vs run
×10^3
χ² / ndf 50.24 / 49
p0 −8854 ± 1.728e+04
400
200
0
−200
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −226.2
Std Dev 243.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 50
Mean 0.01018
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ² / ndf 1.854e+04 / 49
p0 1.178e+04 ± 12.22
20000
18000
16000
14000
12000
10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam1_mean vs run
χ² / ndf 50.53 / 49
p0 81.64 ± 123.3
4000
3000
2000
1000
0
−1000
−2000
−3000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 4.507
Std Dev 25.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01346
Std Dev 1.005
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 1.801e+04 / 49
p0 84.13 ± 0.0872
160
140
120
100
80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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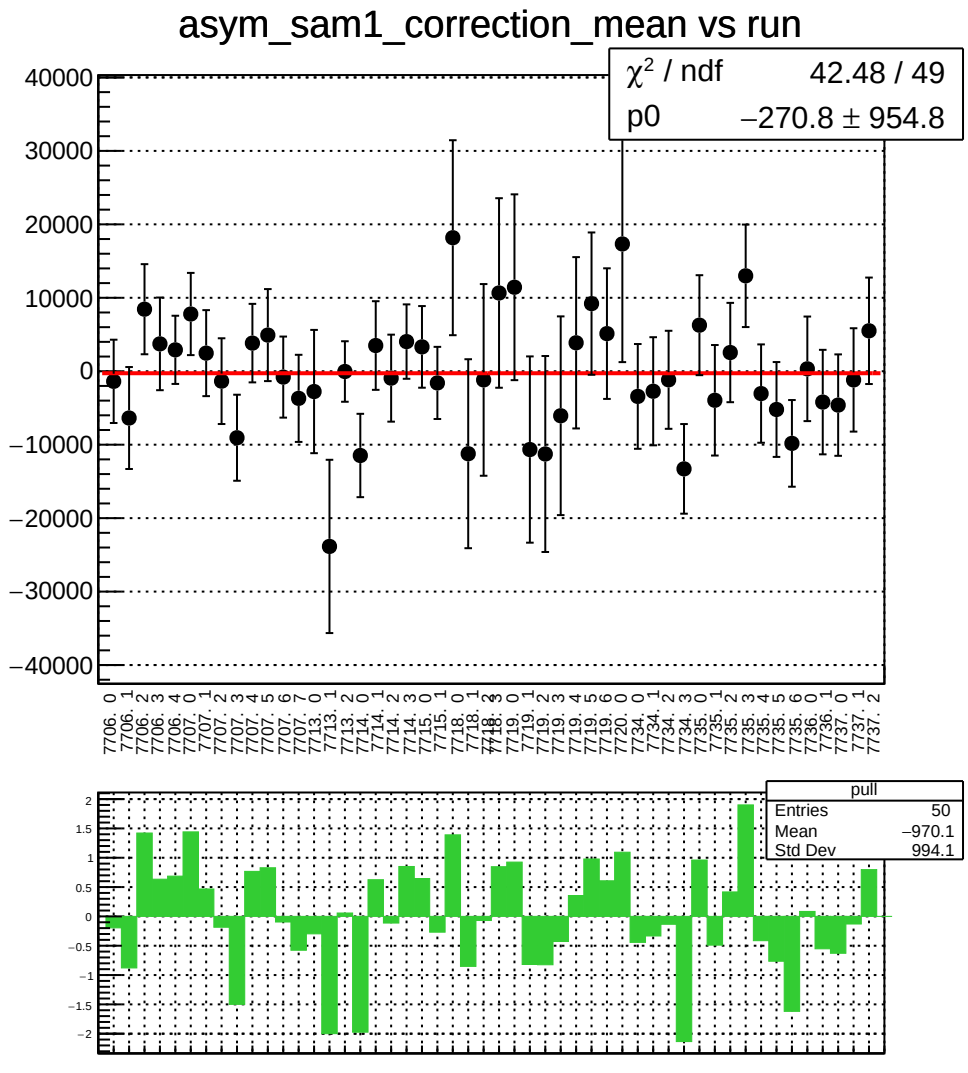
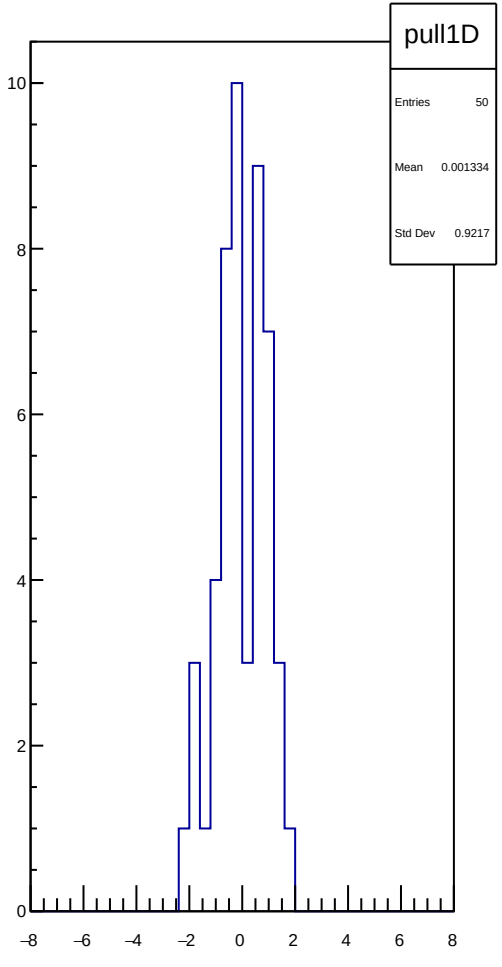
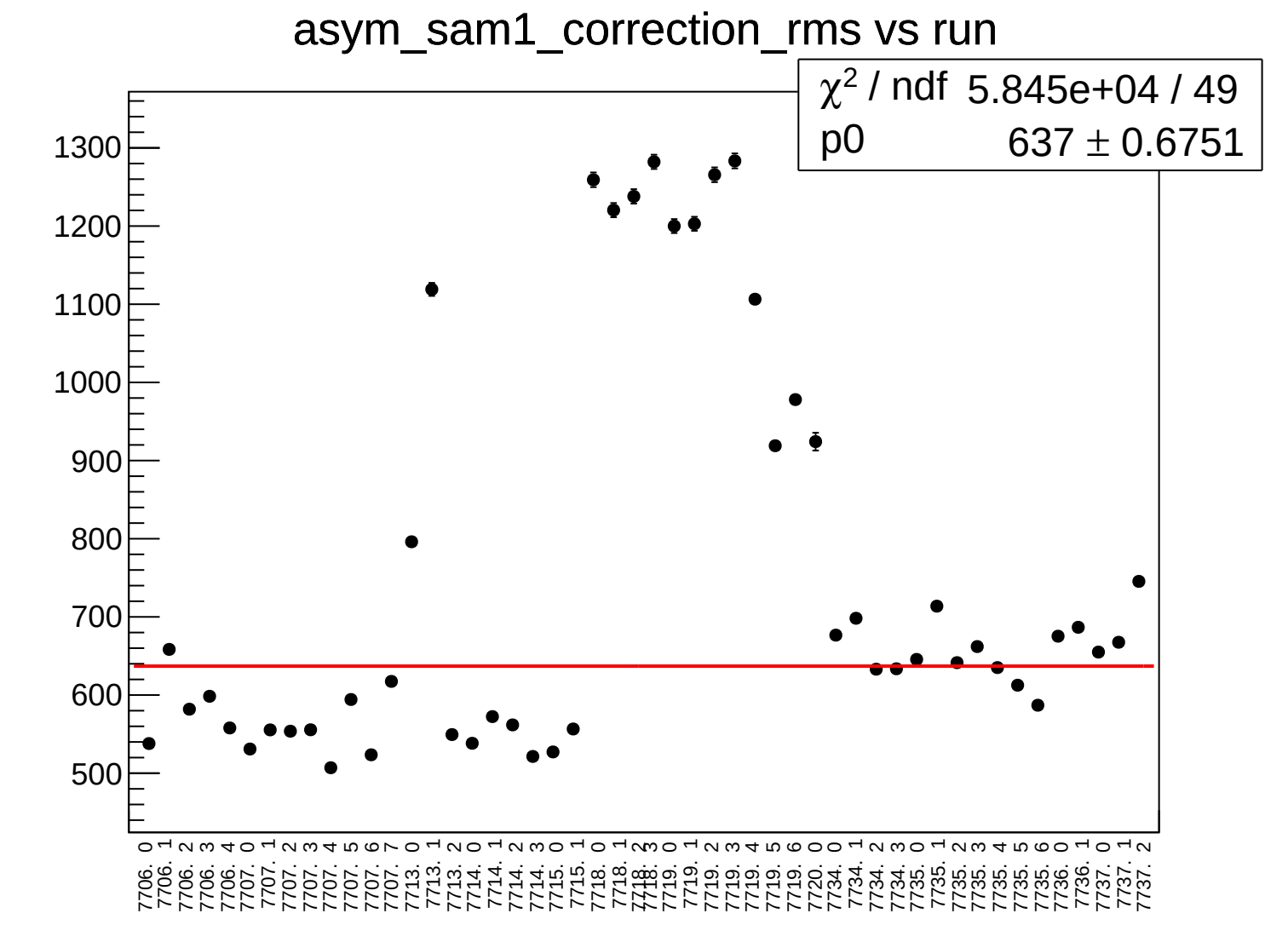
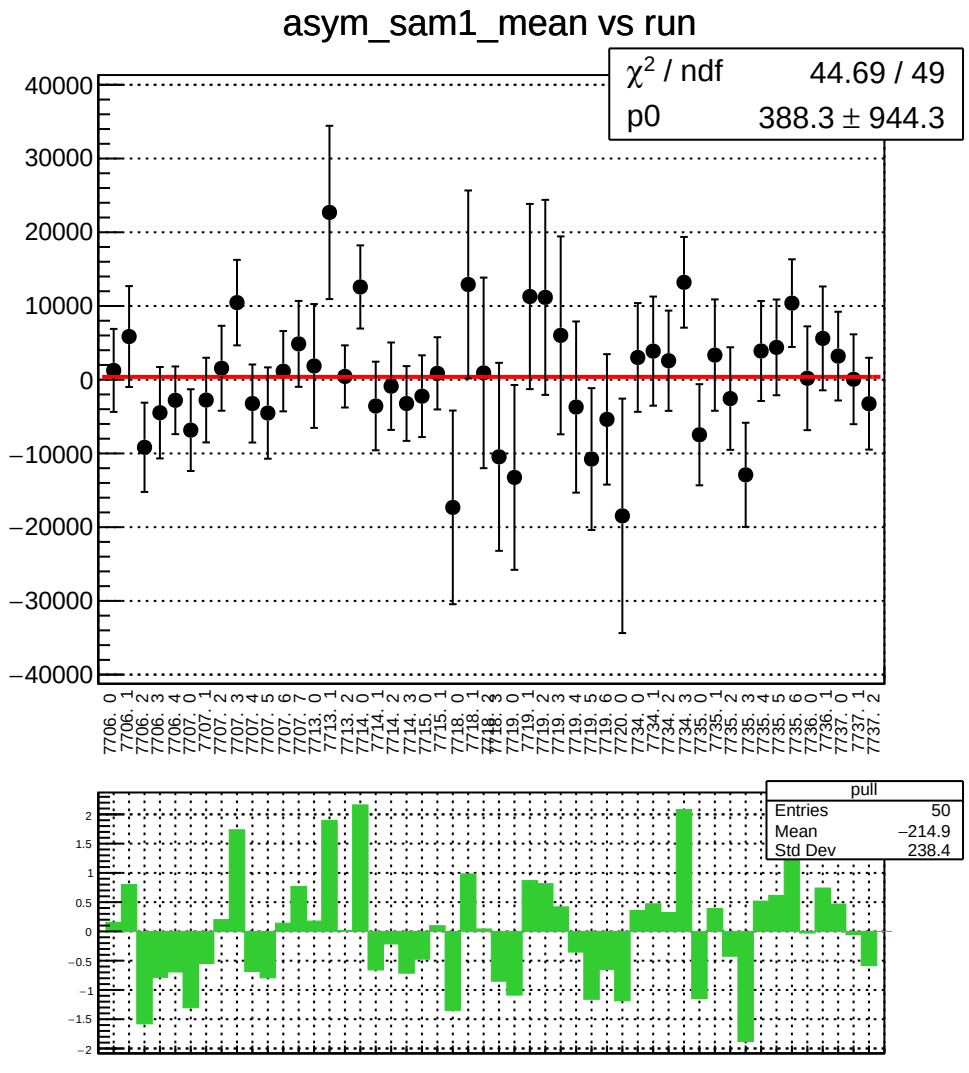
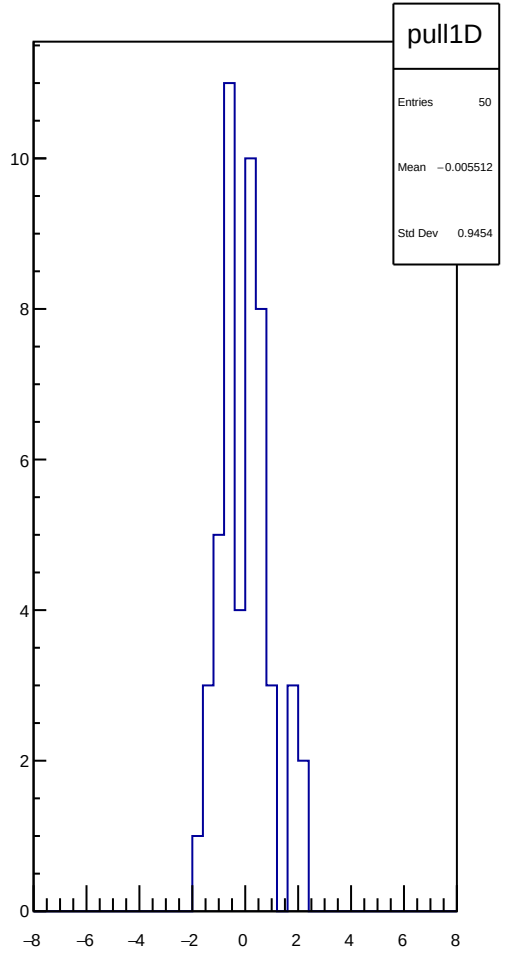
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

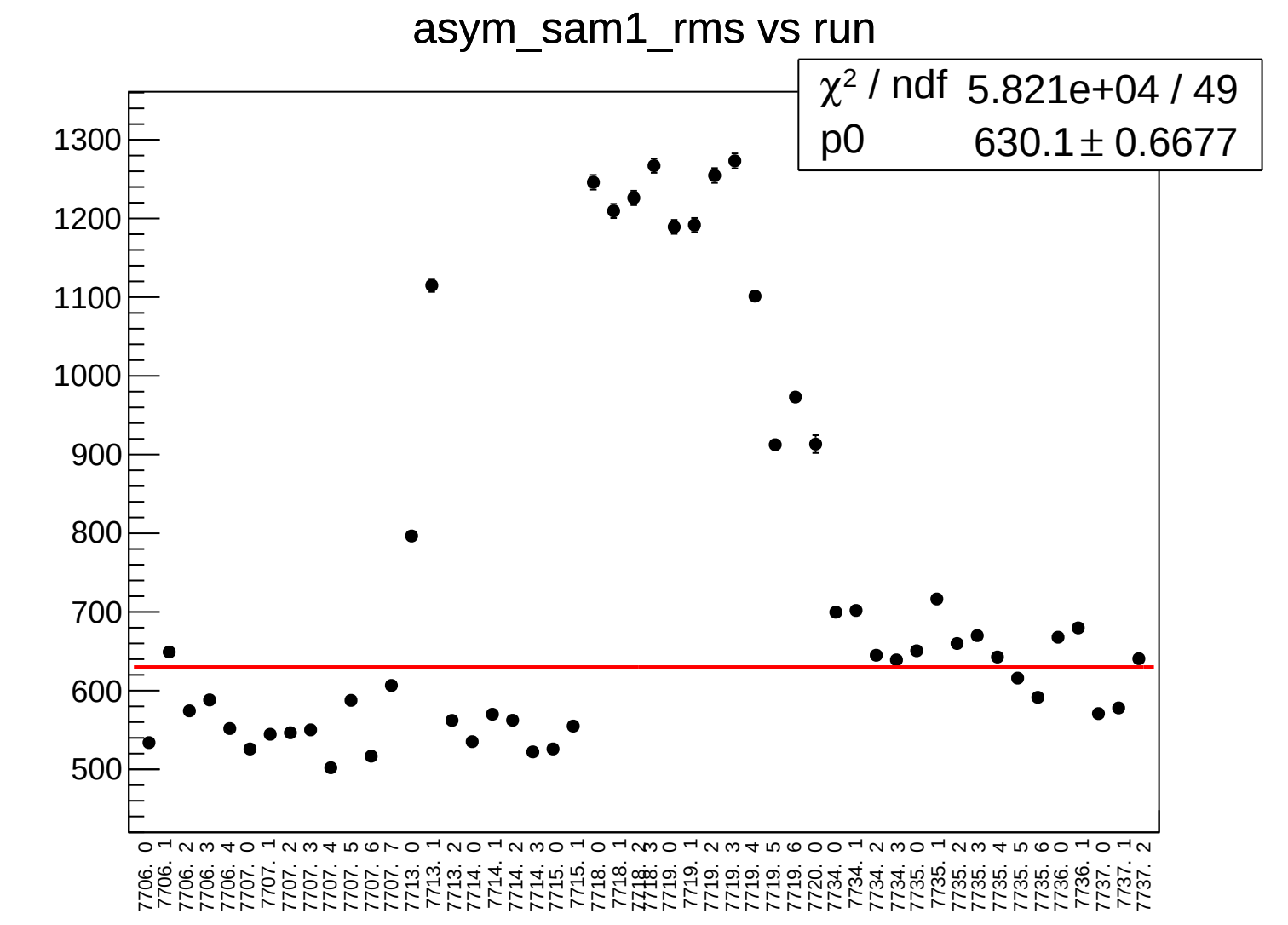

asym_sam1_correction_mean vs run
χ² / ndf 42.48 / 49
p0 −270.8 ± 954.8
pull
Entries 50
Mean −970.1
Std Dev 994.1


pull1D
Entries 50
Mean 0.001334
Std Dev 0.9217


asym_sam1_correction_rms vs run
χ² / ndf 5.845e+04 / 49
p0 637 ± 0.6751
1300
1200
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam1_mean vs run
χ² / ndf 44.69 / 49
p0 388.3 ± 944.3
pull
Entries 50
Mean −214.9
Std Dev 238.4


pull1D
Entries 50
Mean −0.005512
Std Dev 0.9454


asym_sam1_rms vs run
χ² / ndf 5.821e+04 / 49
p0 630.1 ± 0.6677
1300
1200
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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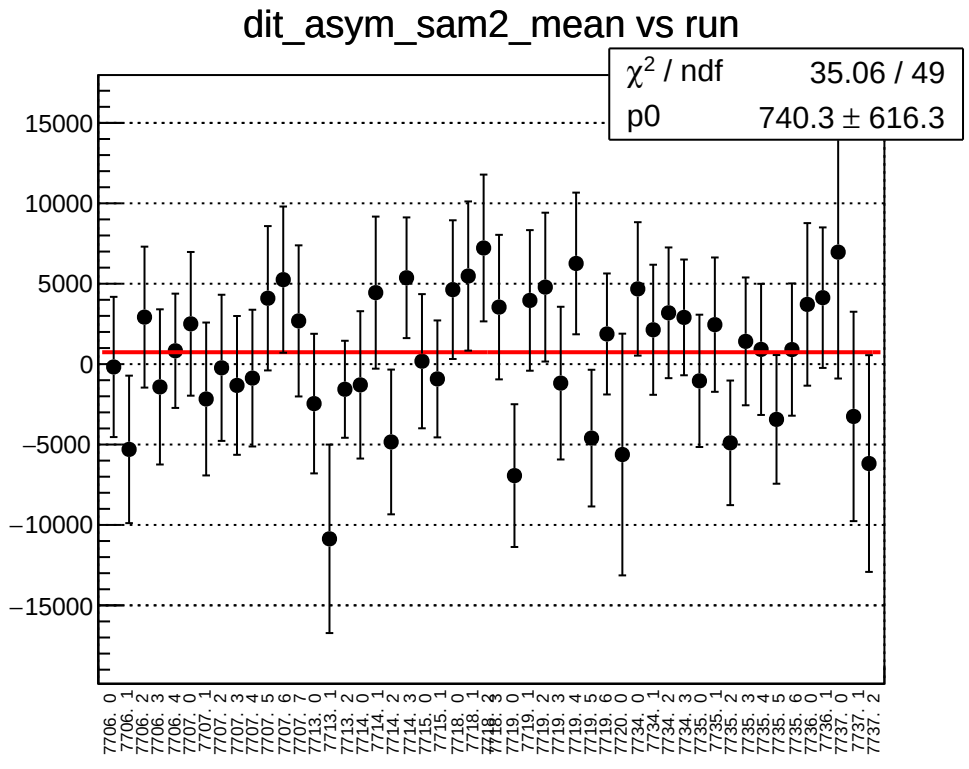
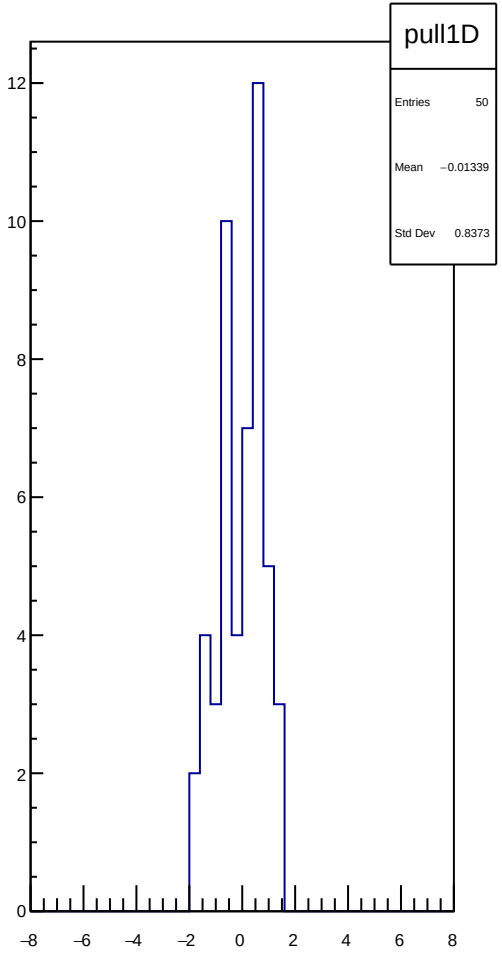
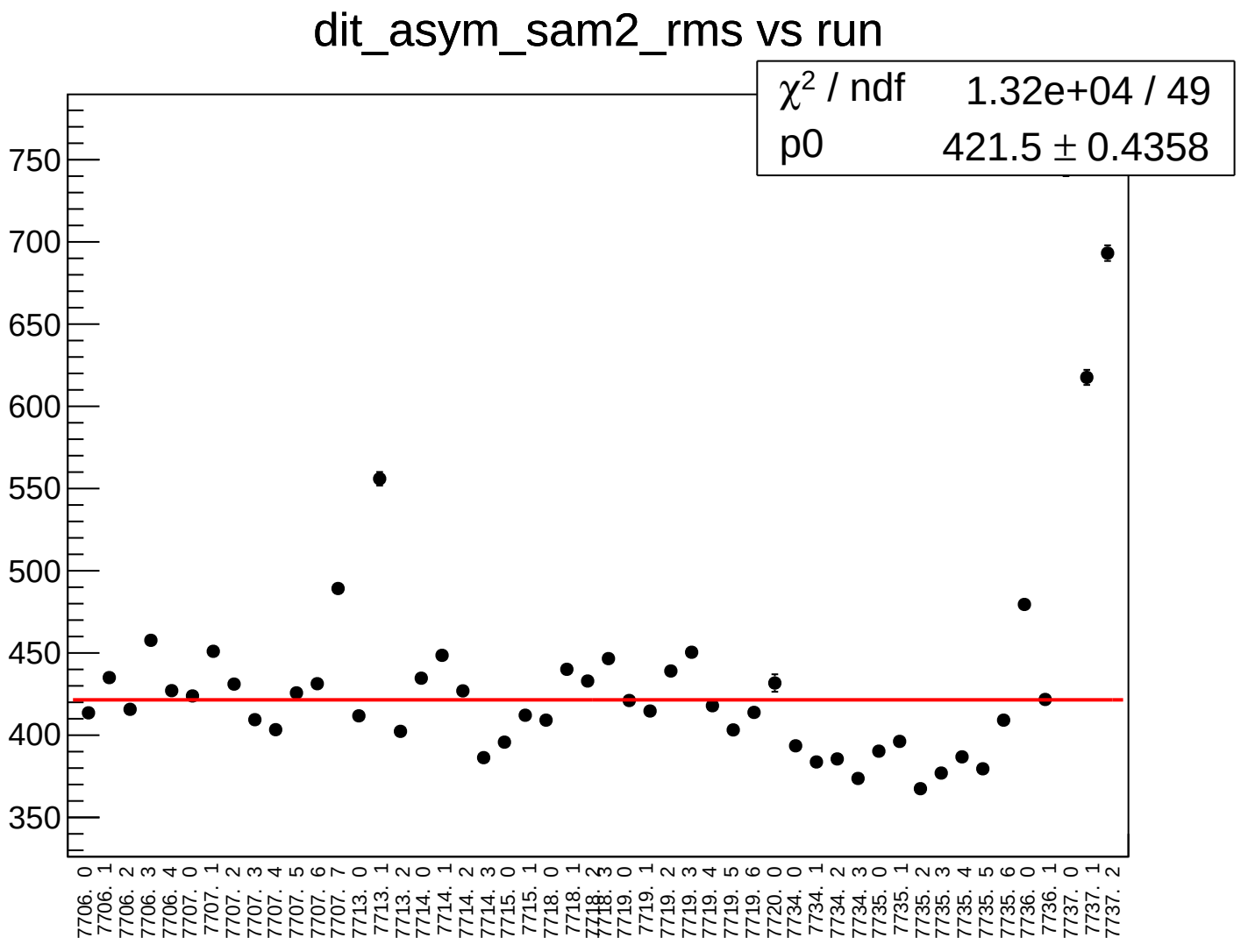
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam2_mean vs run
χ² / ndf 35.06 / 49
p0 740.3 ± 616.3
15000
10000
5000
0
−5000
−10000
−15000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −50.15
Std Dev 58.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean −0.01339
Std Dev 0.8373
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam2_rms vs run
χ² / ndf 1.32e+04 / 49
p0 421.5 ± 0.4358
750
700
650
600
550
500
450
400
350
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
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7707. 4
7707. 5
7707. 6
7707. 7
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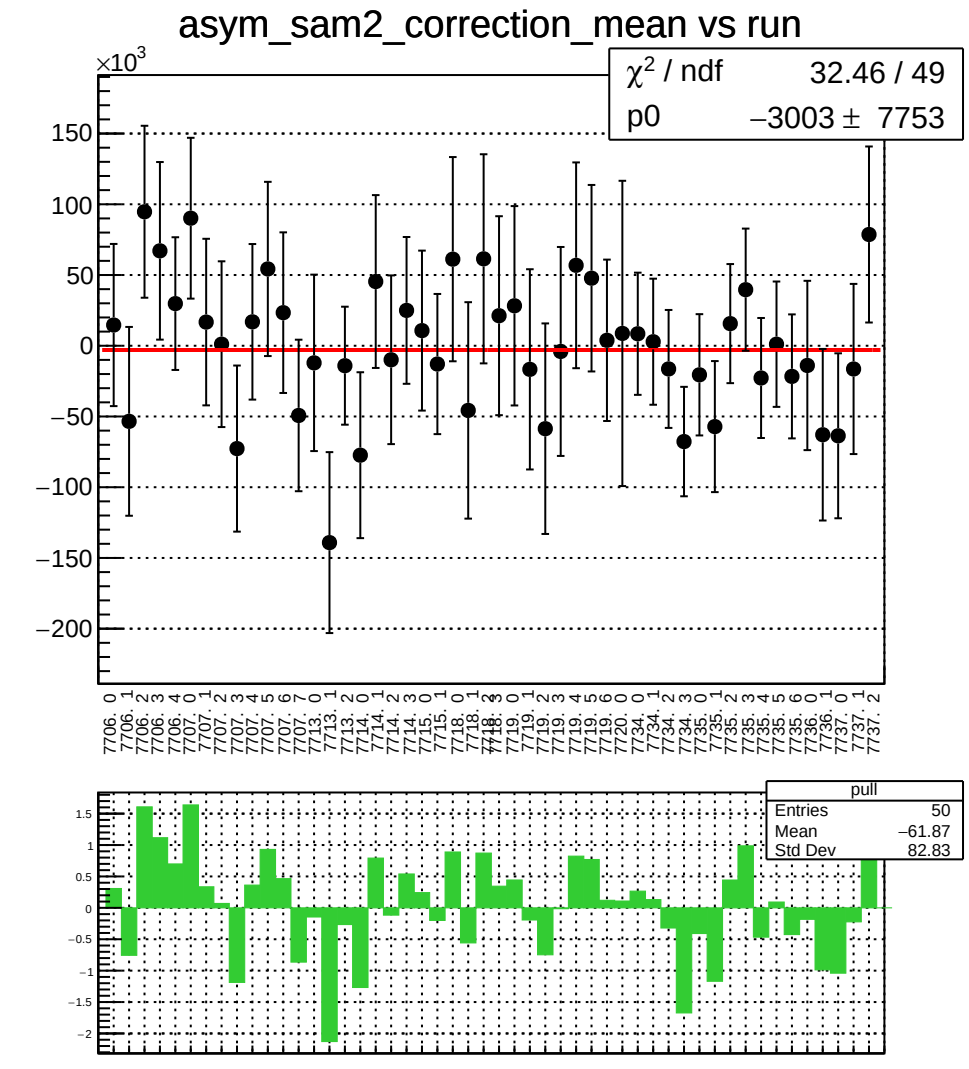
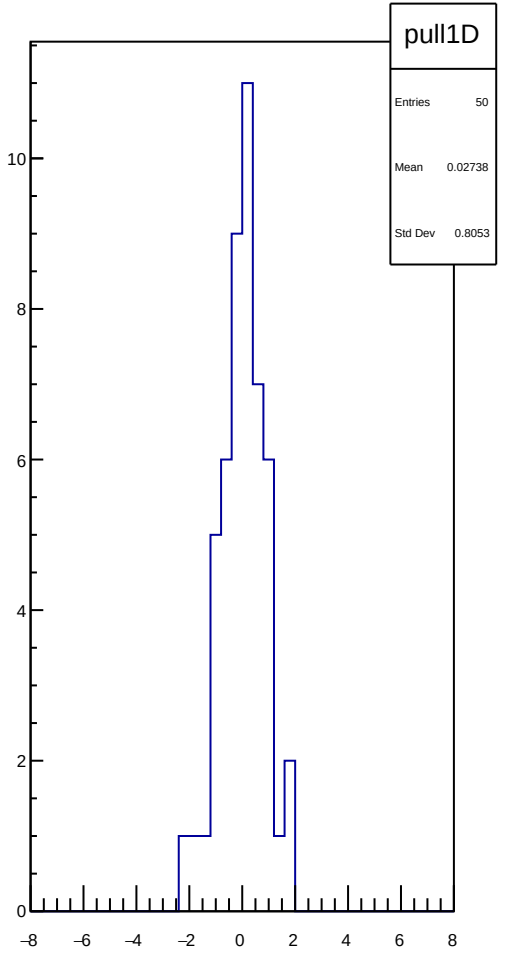
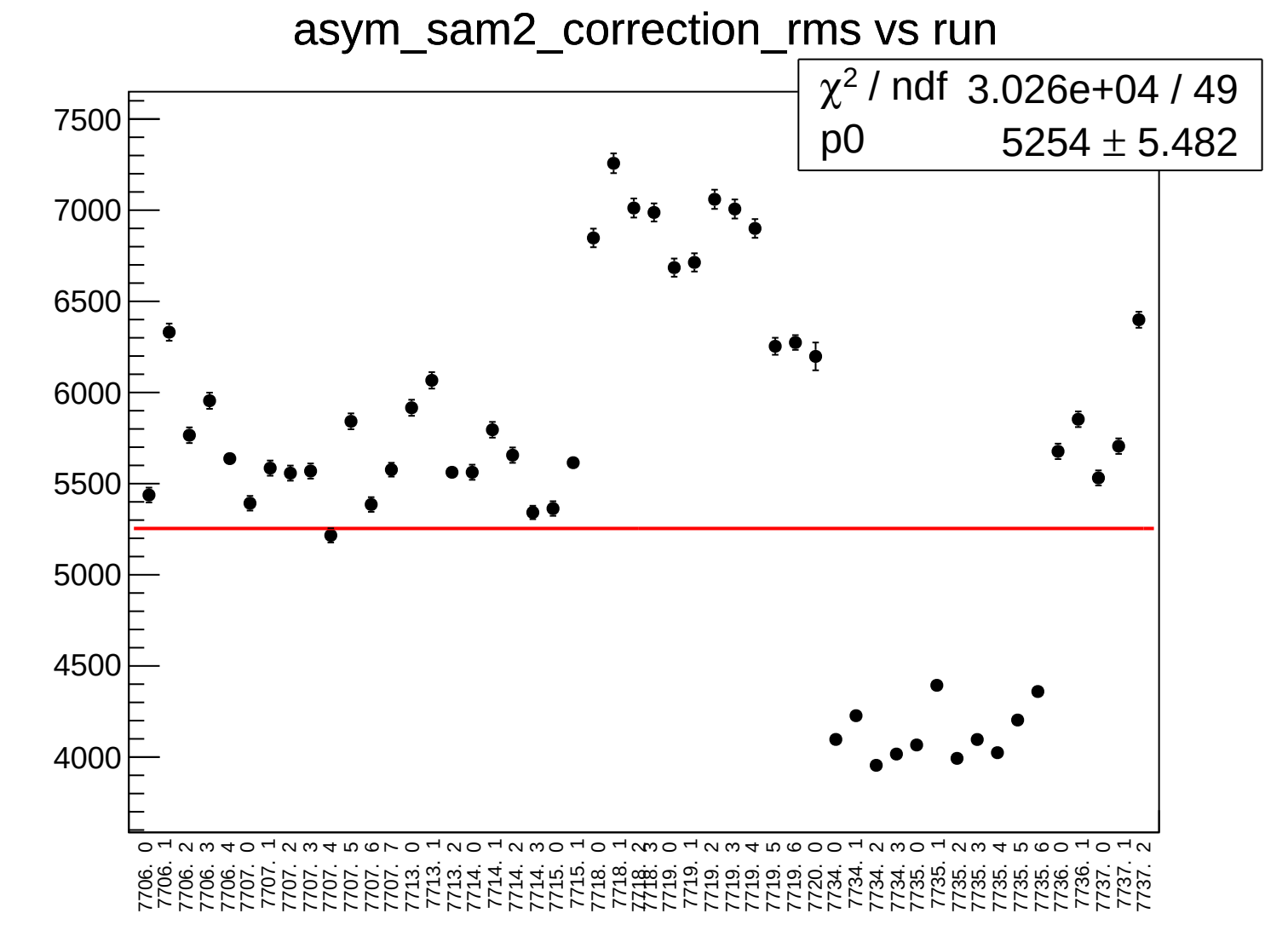
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam2_correction_mean vs run
×10^3
χ² / ndf 32.46 / 49
p0 −3003 ± 7753
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −61.87
Std Dev 82.83
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02738
Std Dev 0.8053
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_correction_rms vs run
χ² / ndf 3.026e+04 / 49
p0 5254 ± 5.482
7500
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
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7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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7735. 5
7735. 6
7736. 0
7736. 1
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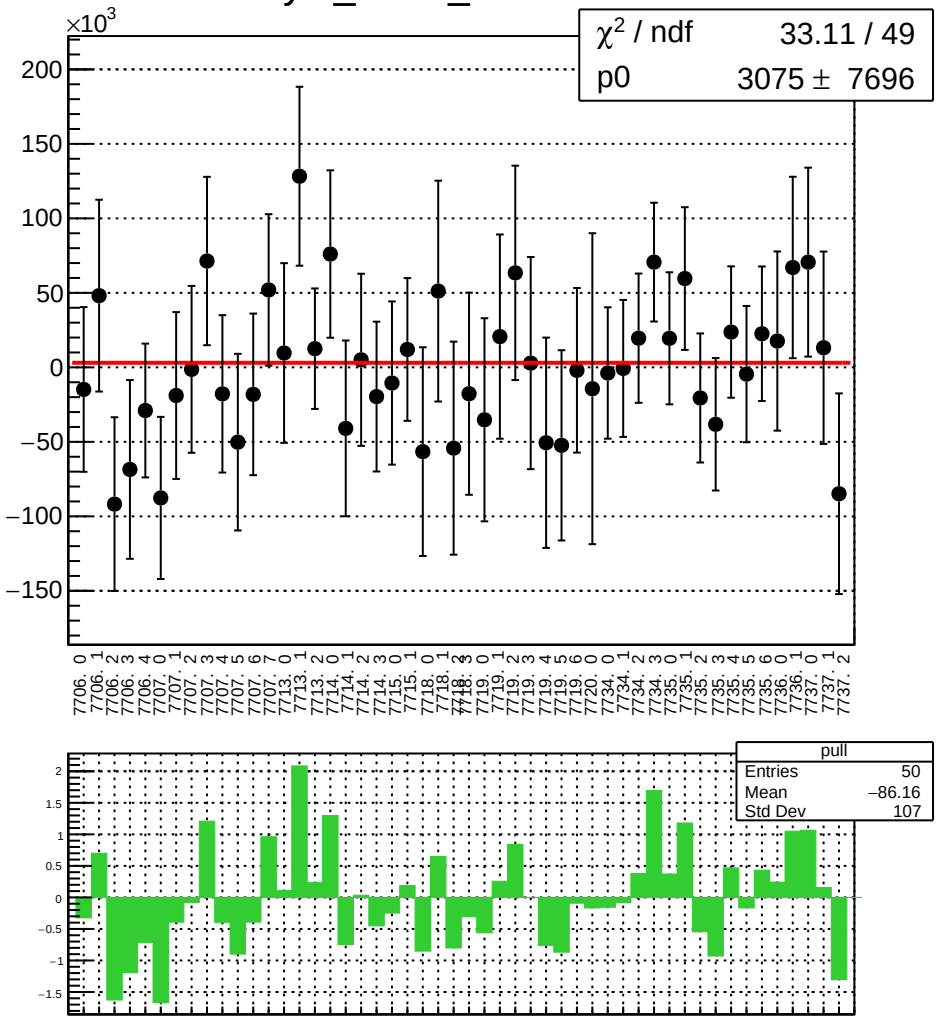
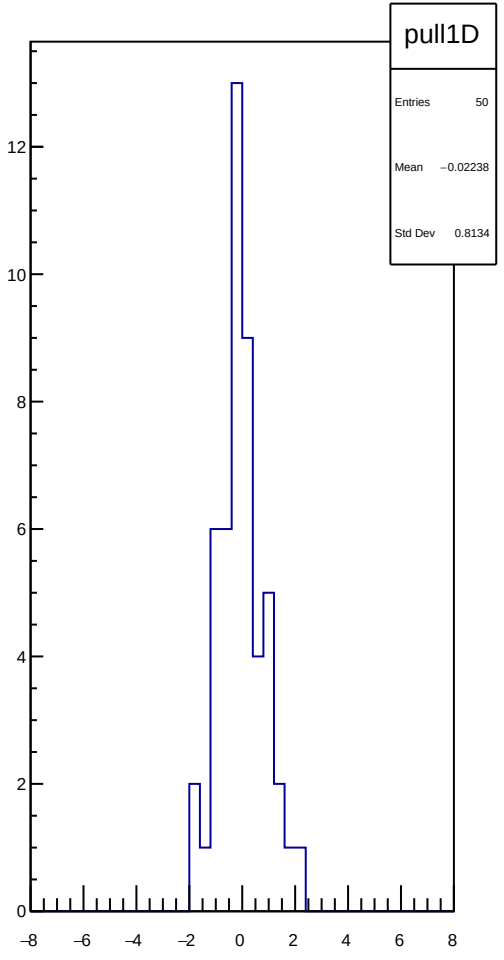
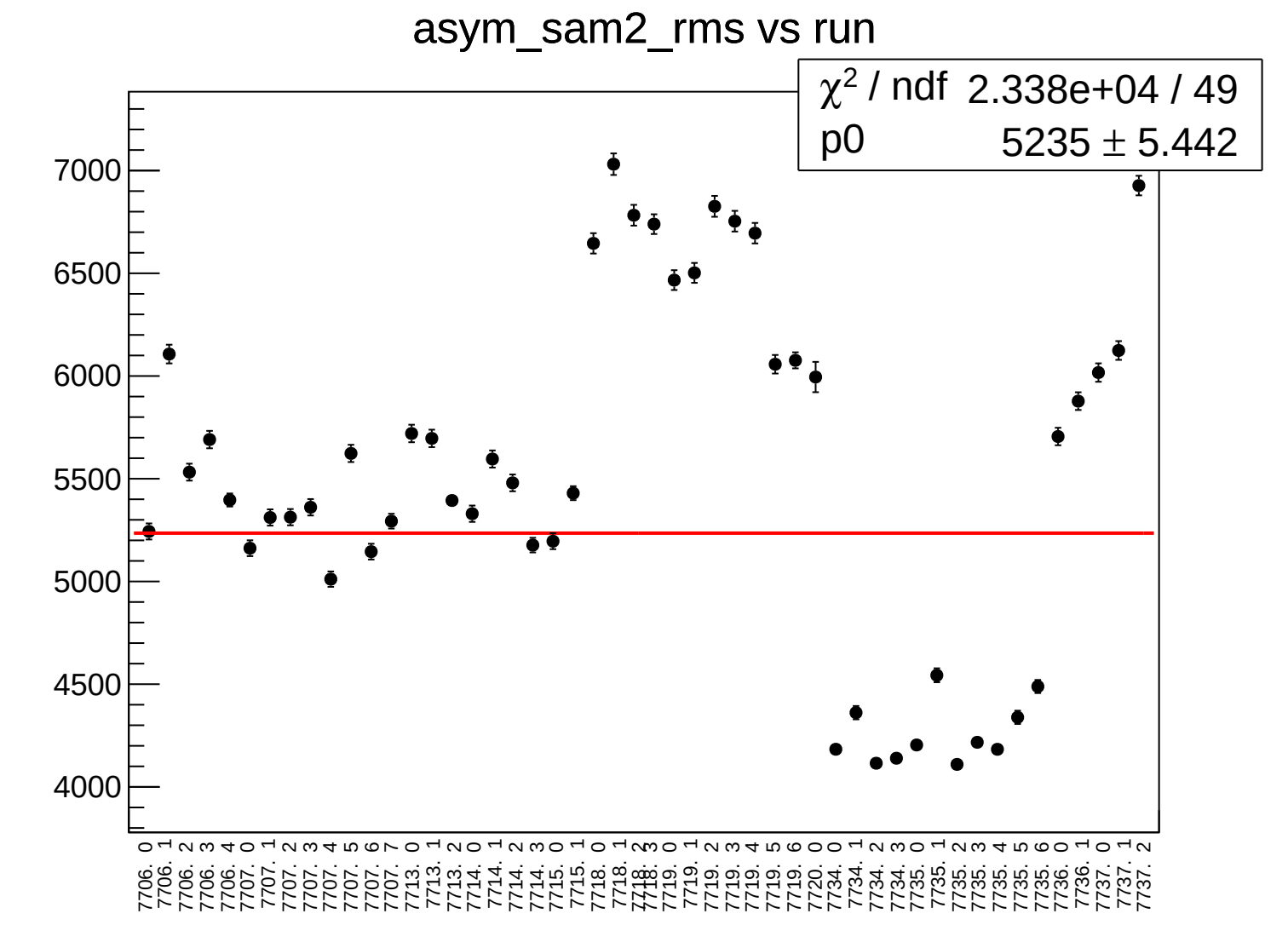
7737. 1
7737. 2


asym_sam2_mean vs run
×10^3
χ² / ndf 33.11 / 49
p0 3075 ± 7696
pull
Entries 50
Mean −86.16
Std Dev 107


pull1D
Entries 50
Mean −0.02238
Std Dev 0.8134


asym_sam2_rms vs run
χ² / ndf 2.338e+04 / 49
p0 5235 ± 5.442
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
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7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
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7714. 3
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7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
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7734. 0
7734. 1
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7735. 1
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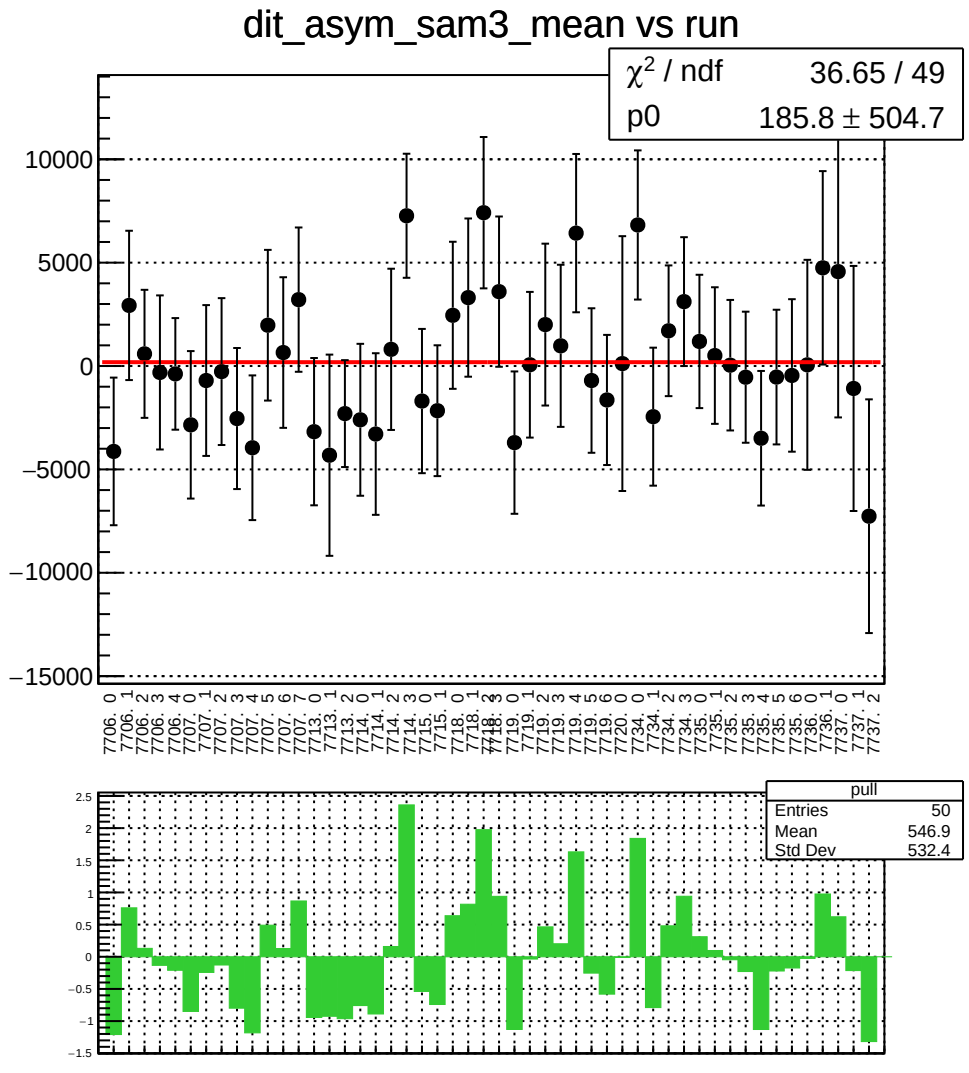
7737. 1
7737. 2


dit_asym_sam3_mean vs run
χ^2 / ndf 36.65 / 49
p0 185.8 ± 504.7
10000
5000
0
−5000
−10000
−15000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
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7707. 5
7707. 6
7707. 7
7713. 0
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7714. 1
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7714. 3
7715. 0
7715. 1
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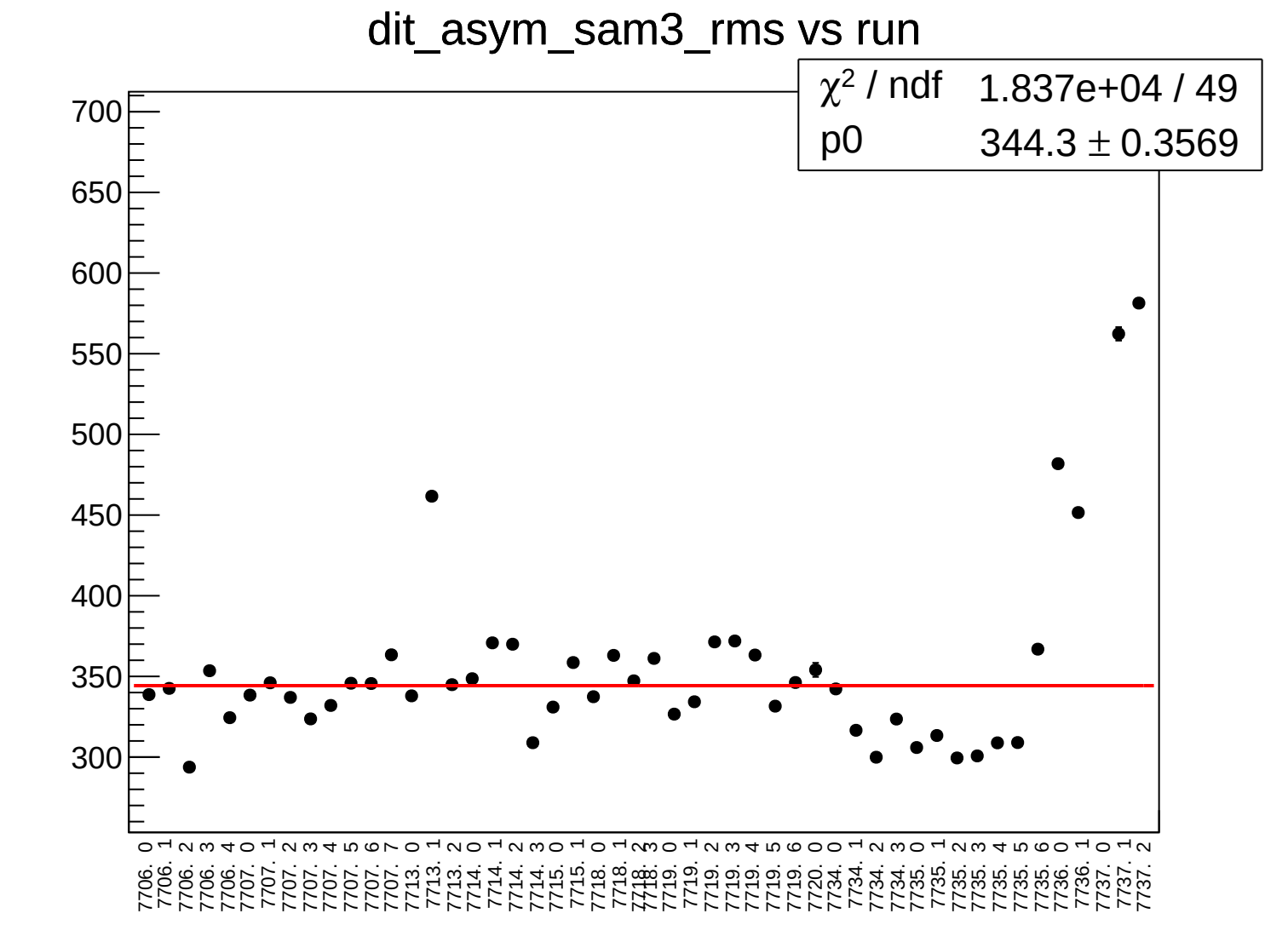
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 546.9
Std Dev 532.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.003166
Std Dev 0.8561
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam3_rms vs run
χ² / ndf 1.837e+04 / 49
p0 344.3 ± 0.3569
700
650
600
550
500
450
400
350
300
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
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7719. 2
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7720. 0
7734. 0
7734. 1
7734. 2
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7735. 0
7735. 1
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7735. 4
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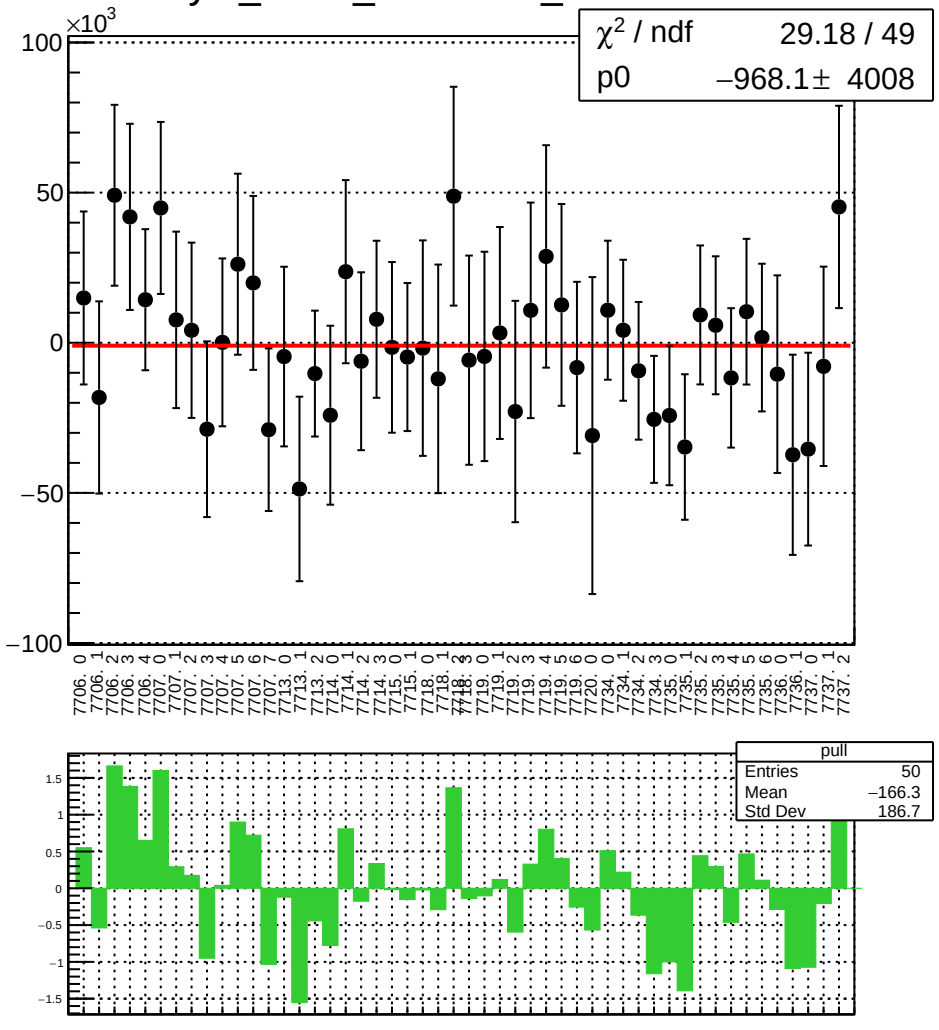
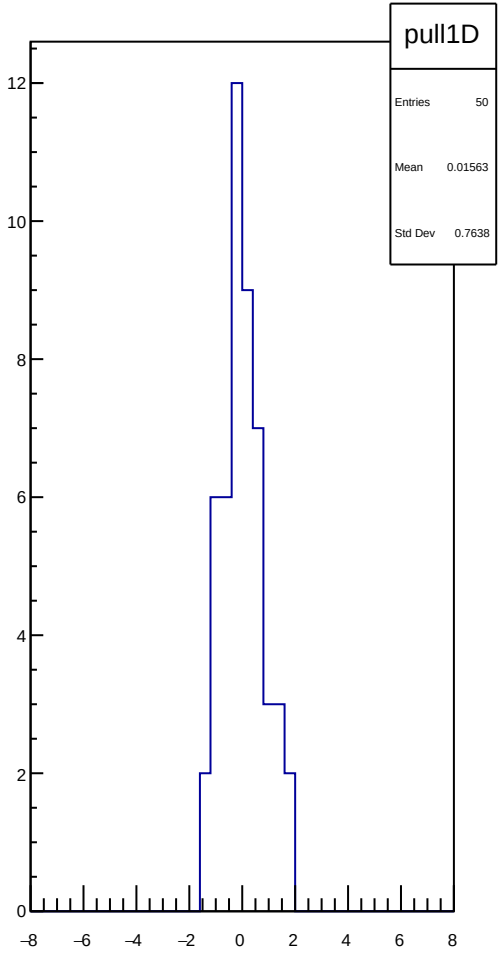
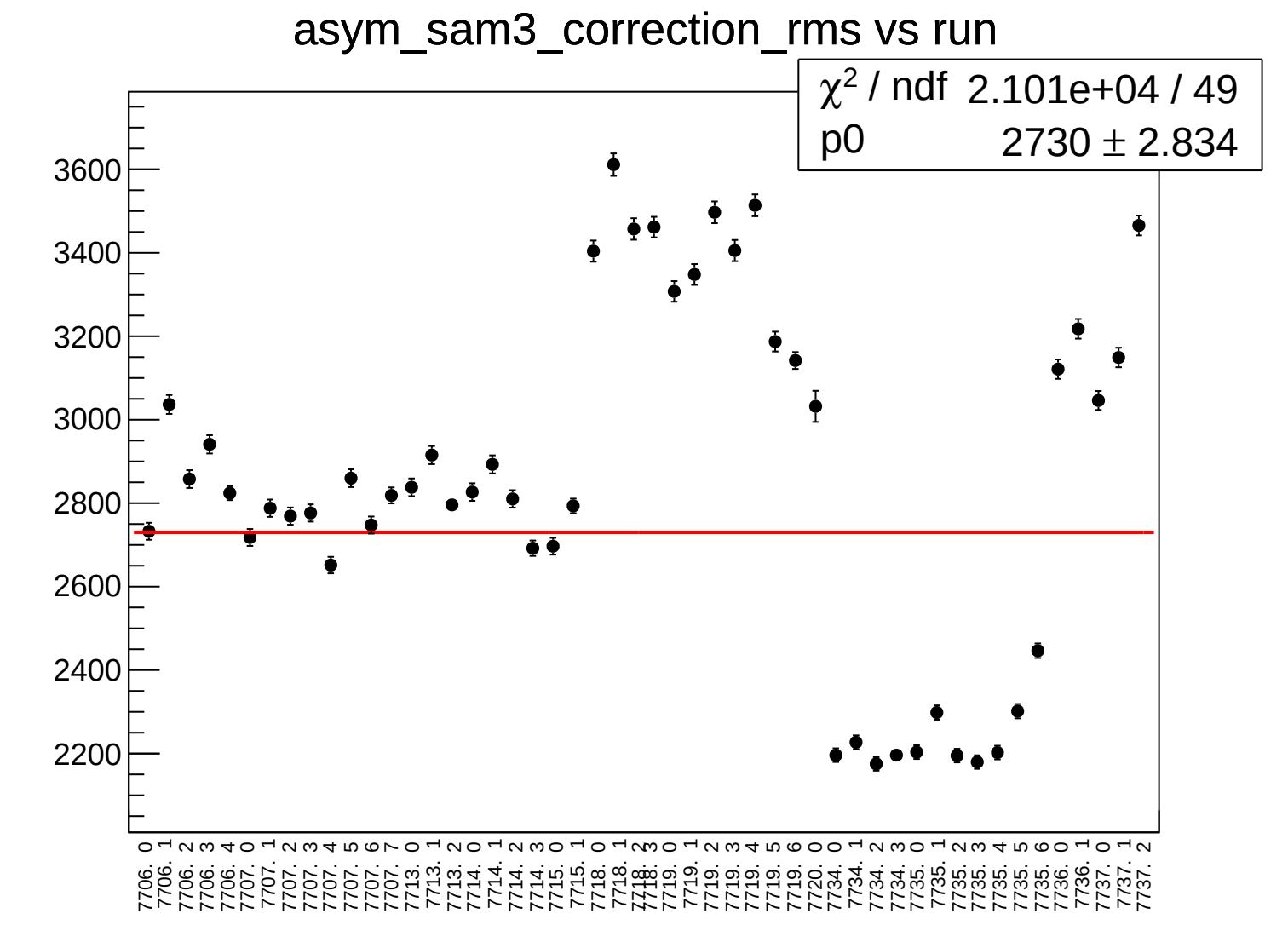
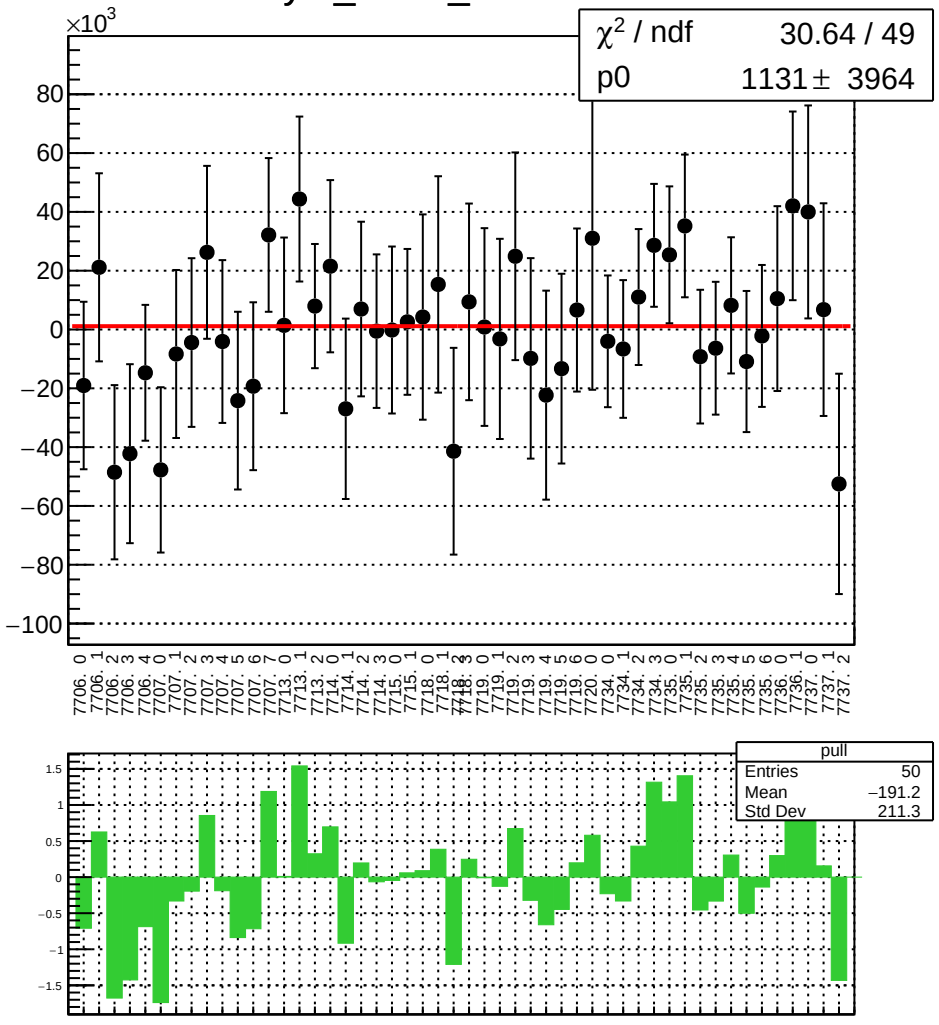
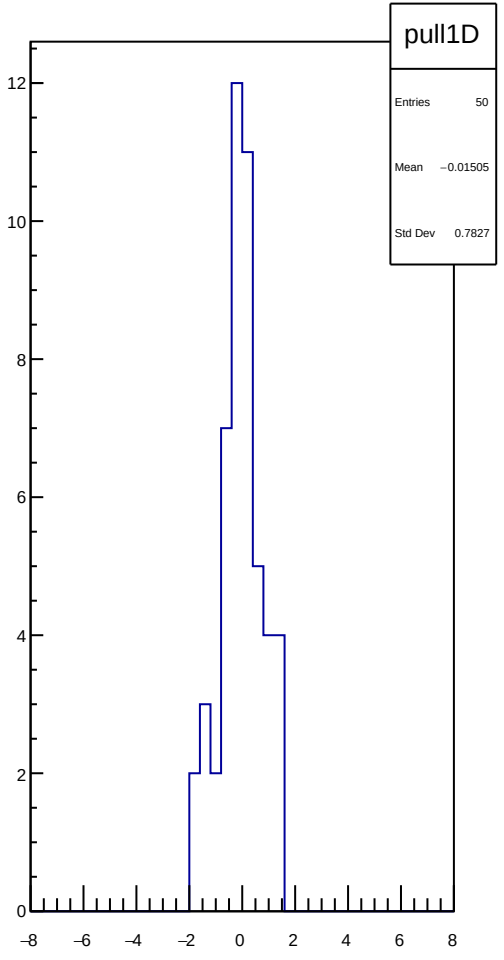
7736. 1
7737. 0
7737. 1
7737. 2

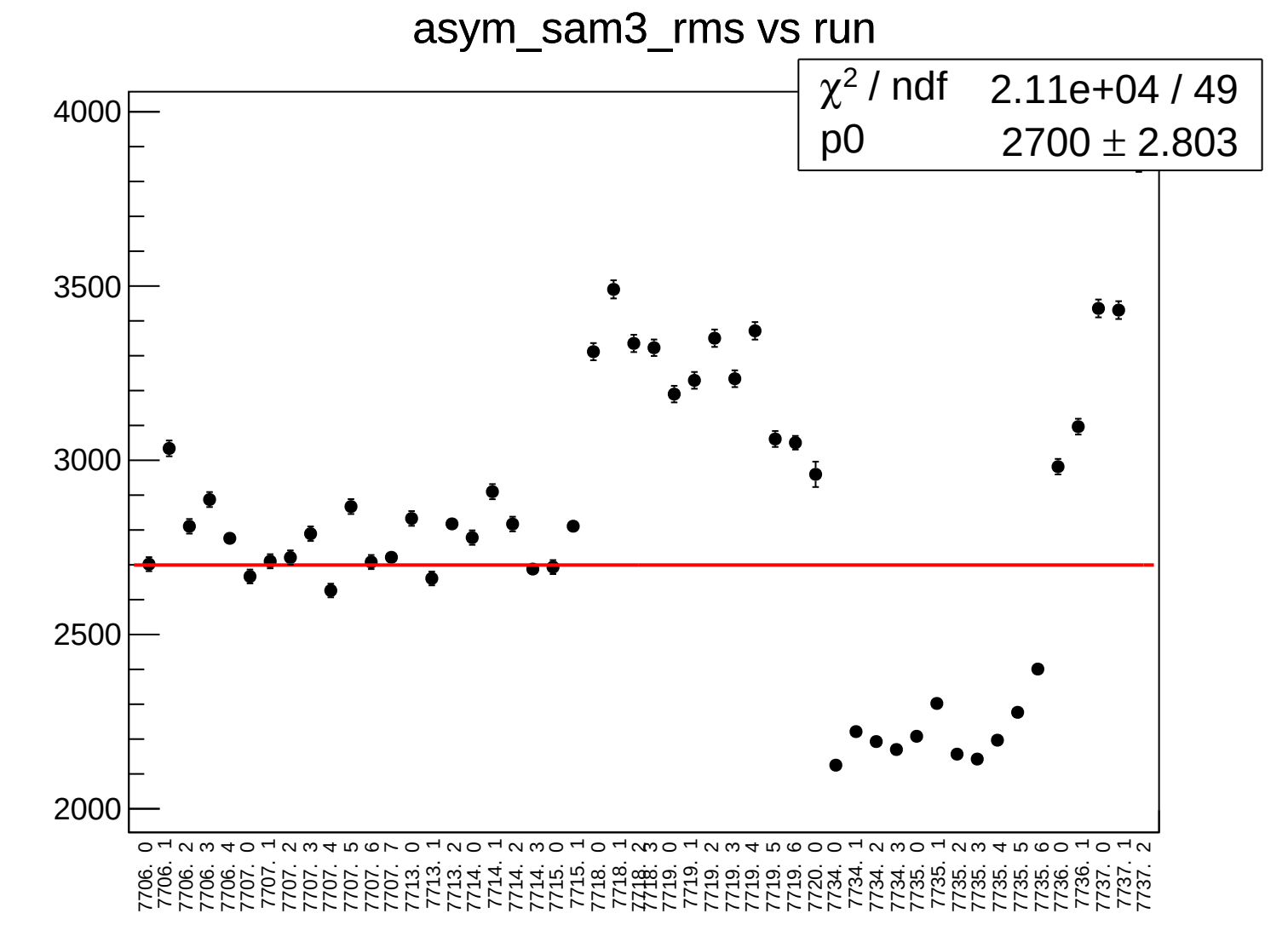

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 29.18 / 49
p0 −968.1± 4008
100
50
0
−50
−100
pull
Entries 50
Mean −166.3
Std Dev 186.7
1.5
1
0.5
0
−0.5
−1
−1.5

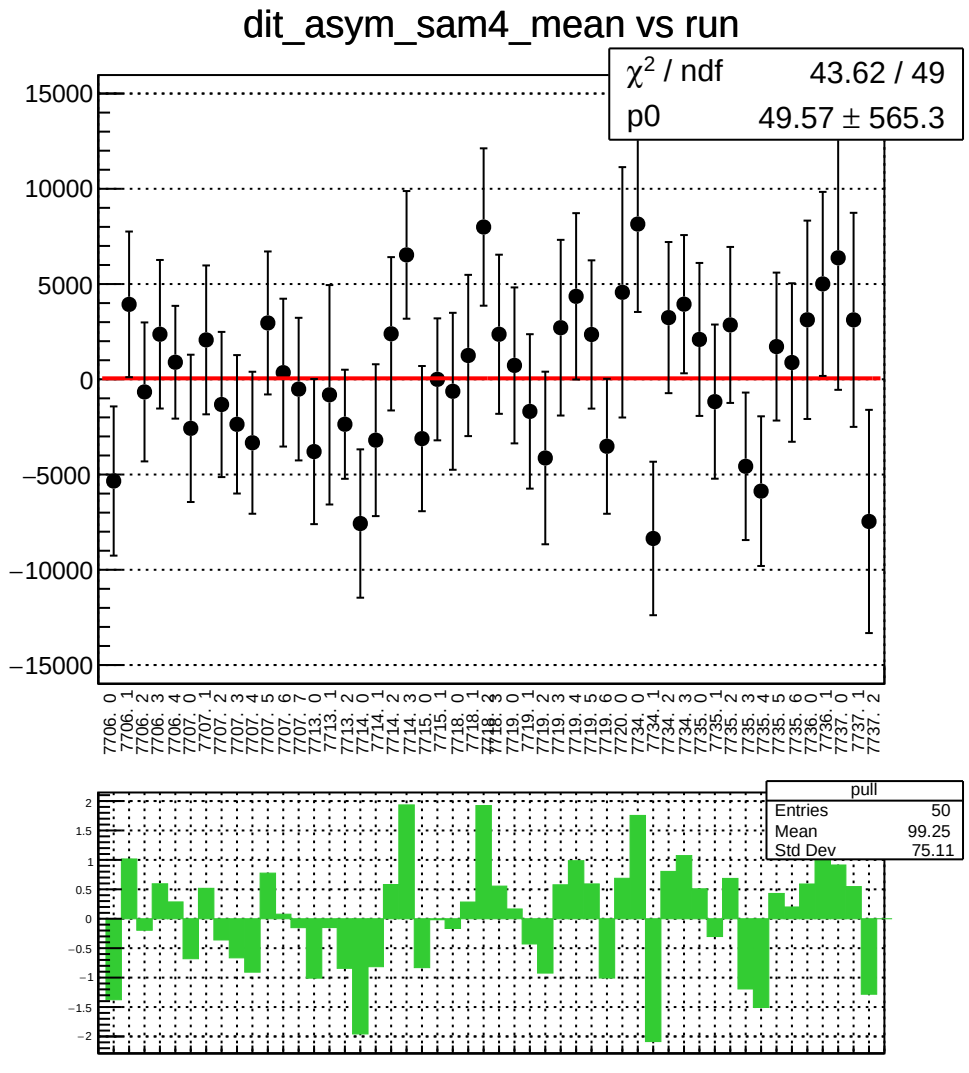

pull1D
Entries 50
Mean 0.01563
Std Dev 0.7638
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

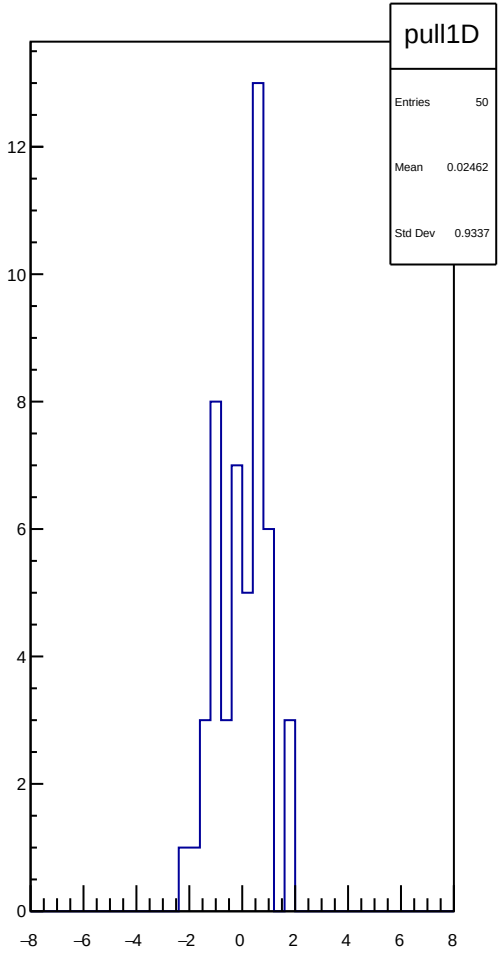

asym_sam3_correction_rms vs run
χ² / ndf 2.101e+04 / 49
p0 2730 ± 2.834
3600
3400
3200
3000
2800
2600
2400
2200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

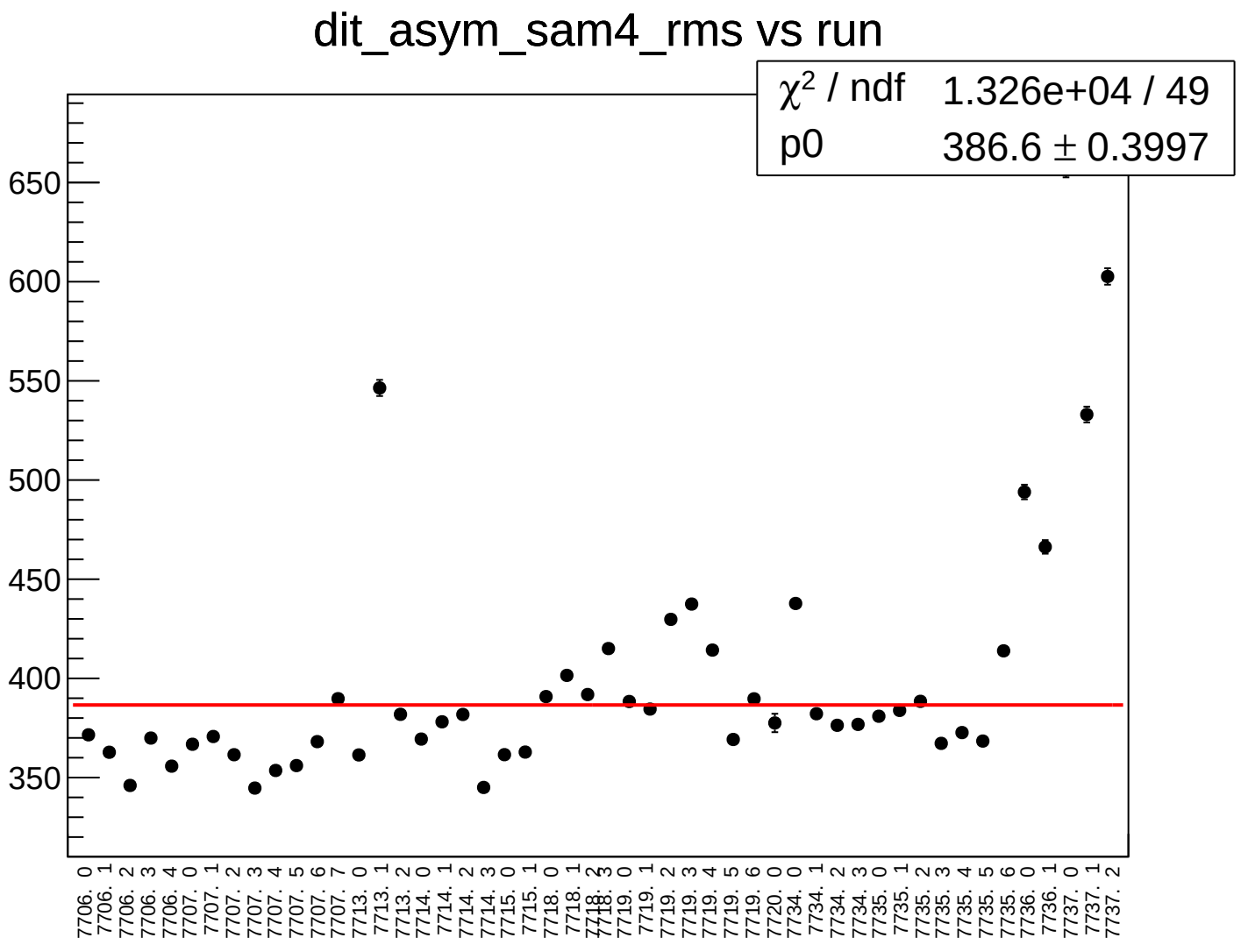

asym_sam3_mean vs run
×10^3
χ² / ndf 30.64 / 49
p0 1131 ± 3964
pull
Entries 50
Mean −191.2
Std Dev 211.3

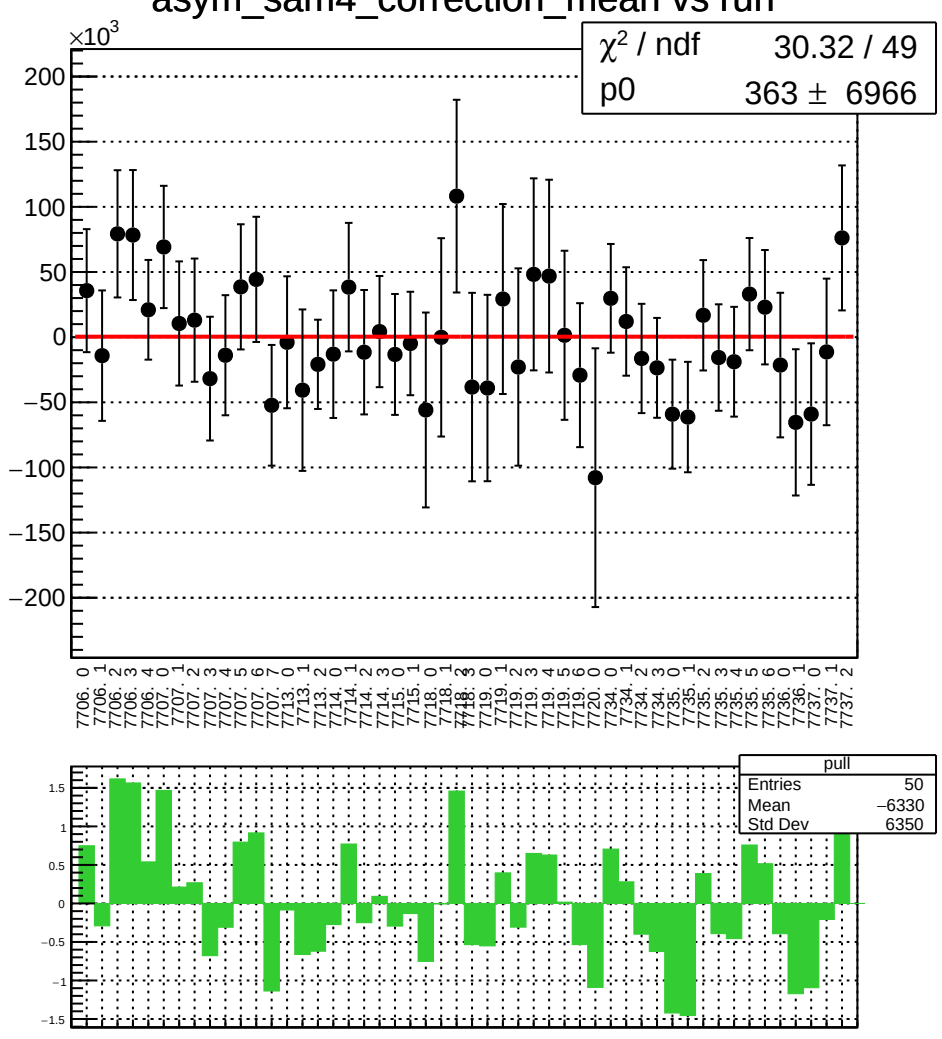

pull1D
Entries 50
Mean −0.01505
Std Dev 0.7827

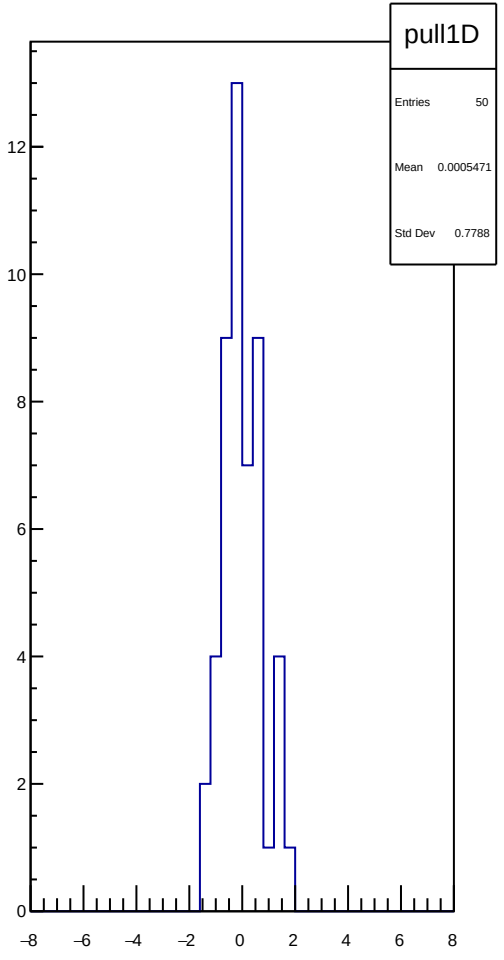

asym_sam3_rms vs run
χ² / ndf 2.11e+04 / 49
p0 2700 ± 2.803
4000
3500
3000
2500
2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

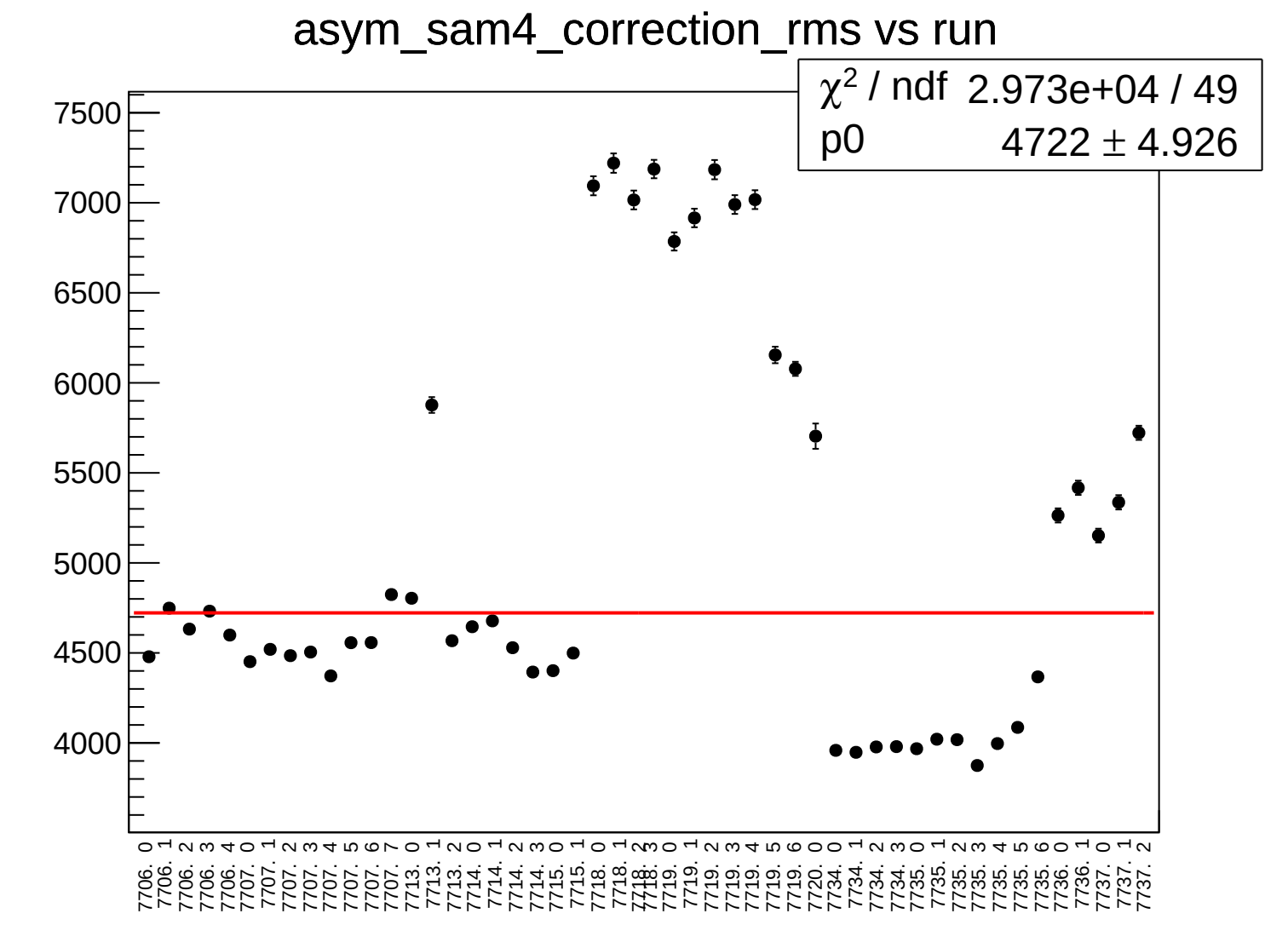

dit_asym_sam4_mean vs run
χ² / ndf 43.62 / 49
p0 49.57 ± 565.3
15000
10000
5000
0
−5000
−10000
−15000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 99.25
Std Dev 75.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

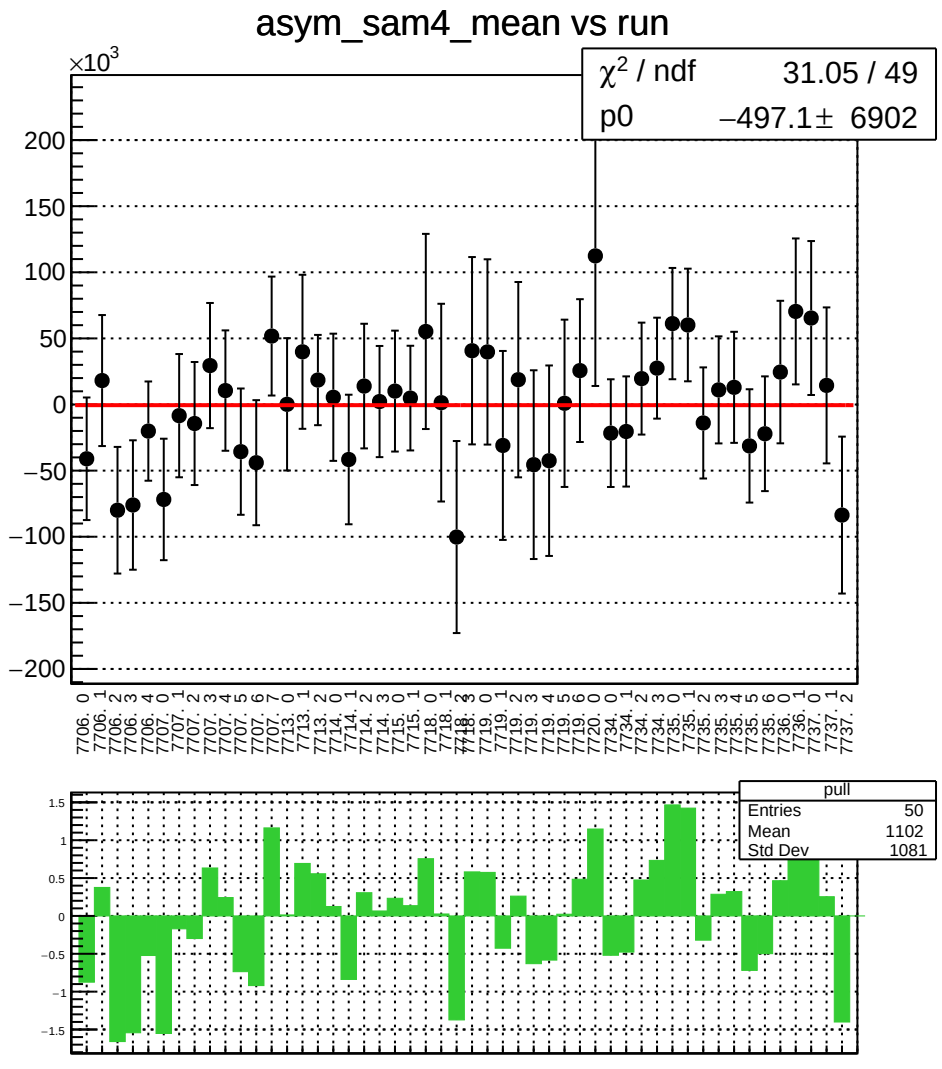

pull1D
Entries 50
Mean 0.02462
Std Dev 0.9337
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

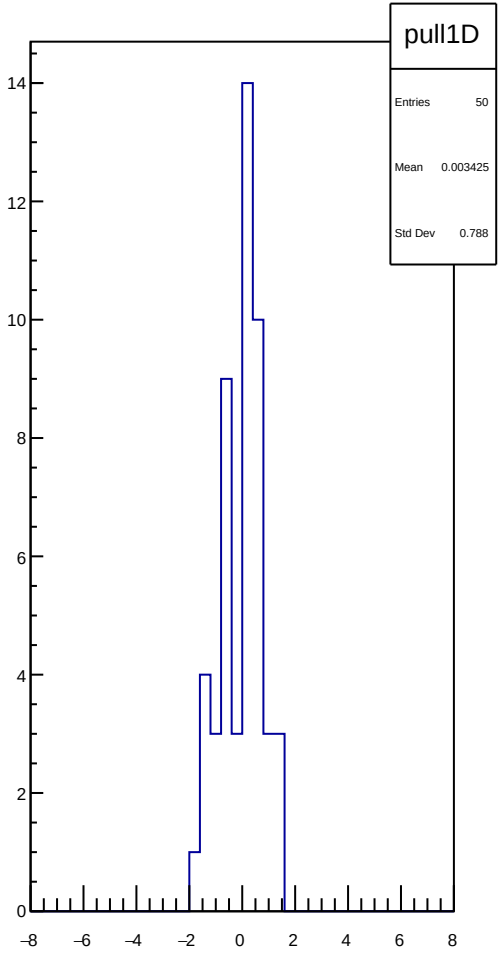

dit_asym_sam4_rms vs run
χ² / ndf 1.326e+04 / 49
p0 386.6 ± 0.3997
650
600
550
500
450
400
350
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

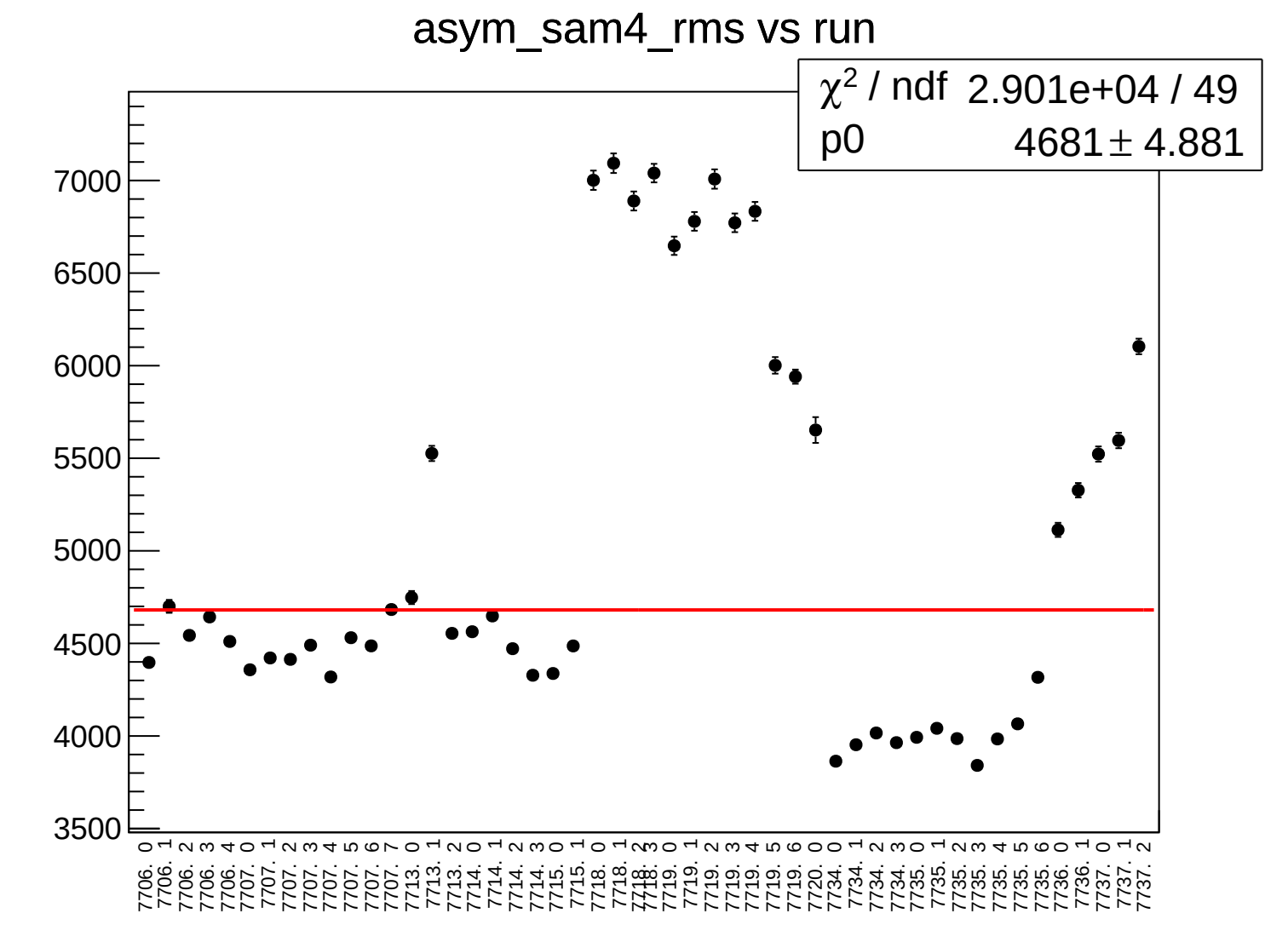

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 30.32 / 49
p0 363 ± 6966
pull
Entries 50
Mean −6330
Std Dev 6350

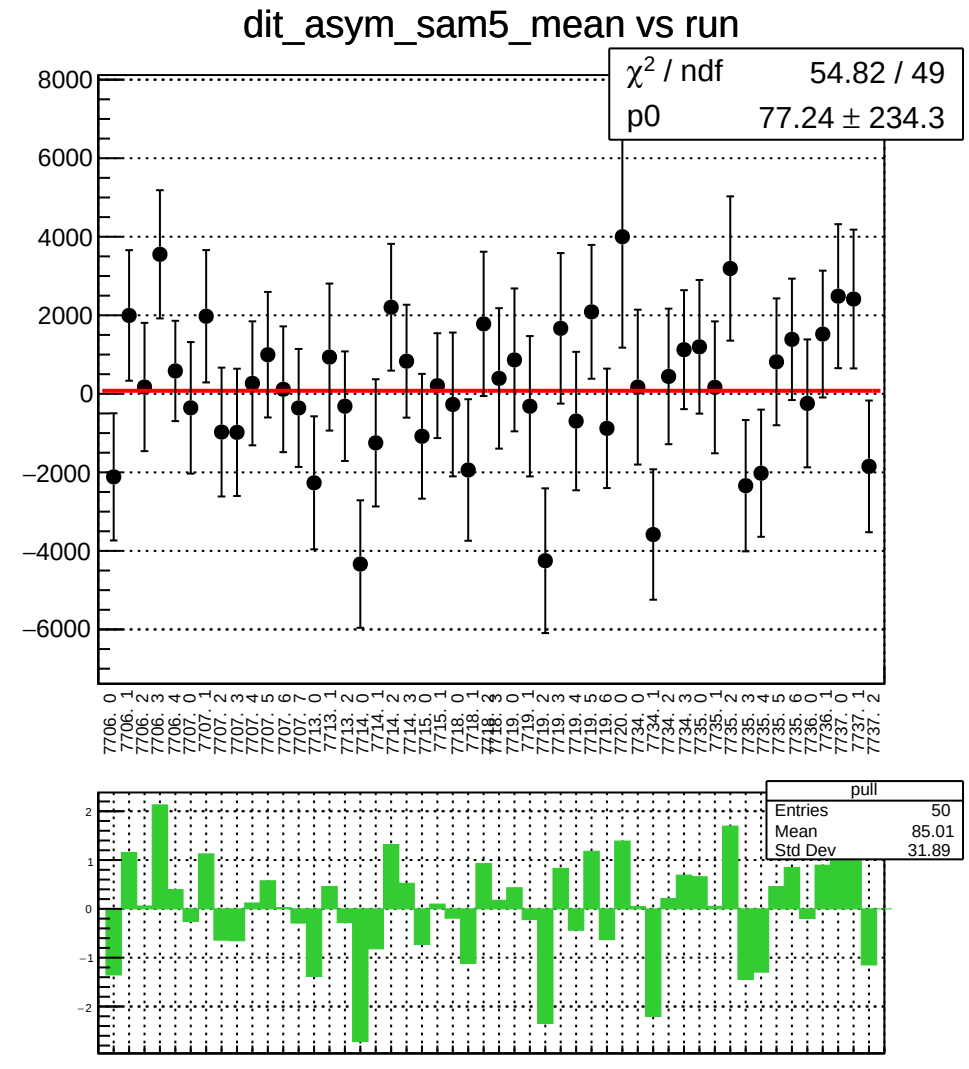

pull1D
Entries 50
Mean 0.0005471
Std Dev 0.7788

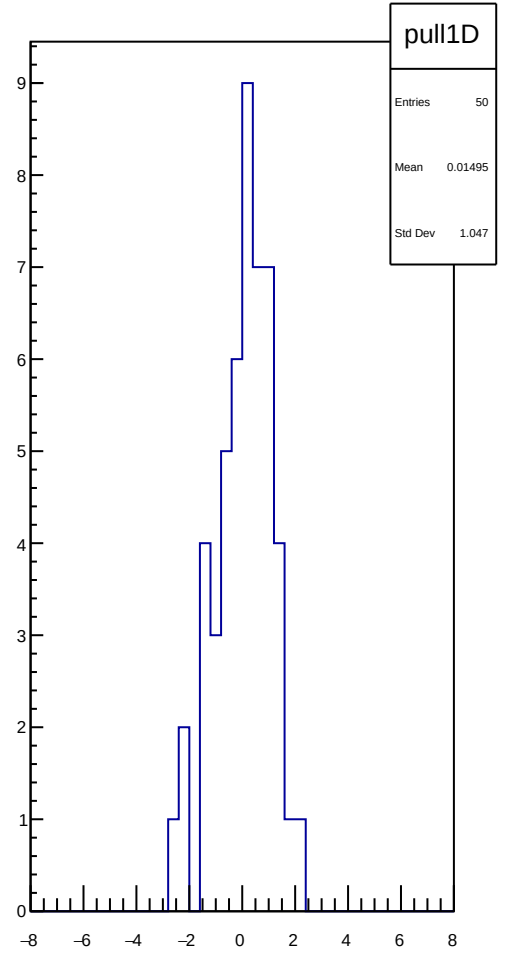

asym_sam4_correction_rms vs run
χ² / ndf 2.973e+04 / 49
p0 4722 ± 4.926
7500
7000
6500
6000
5500
5000
4500
4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

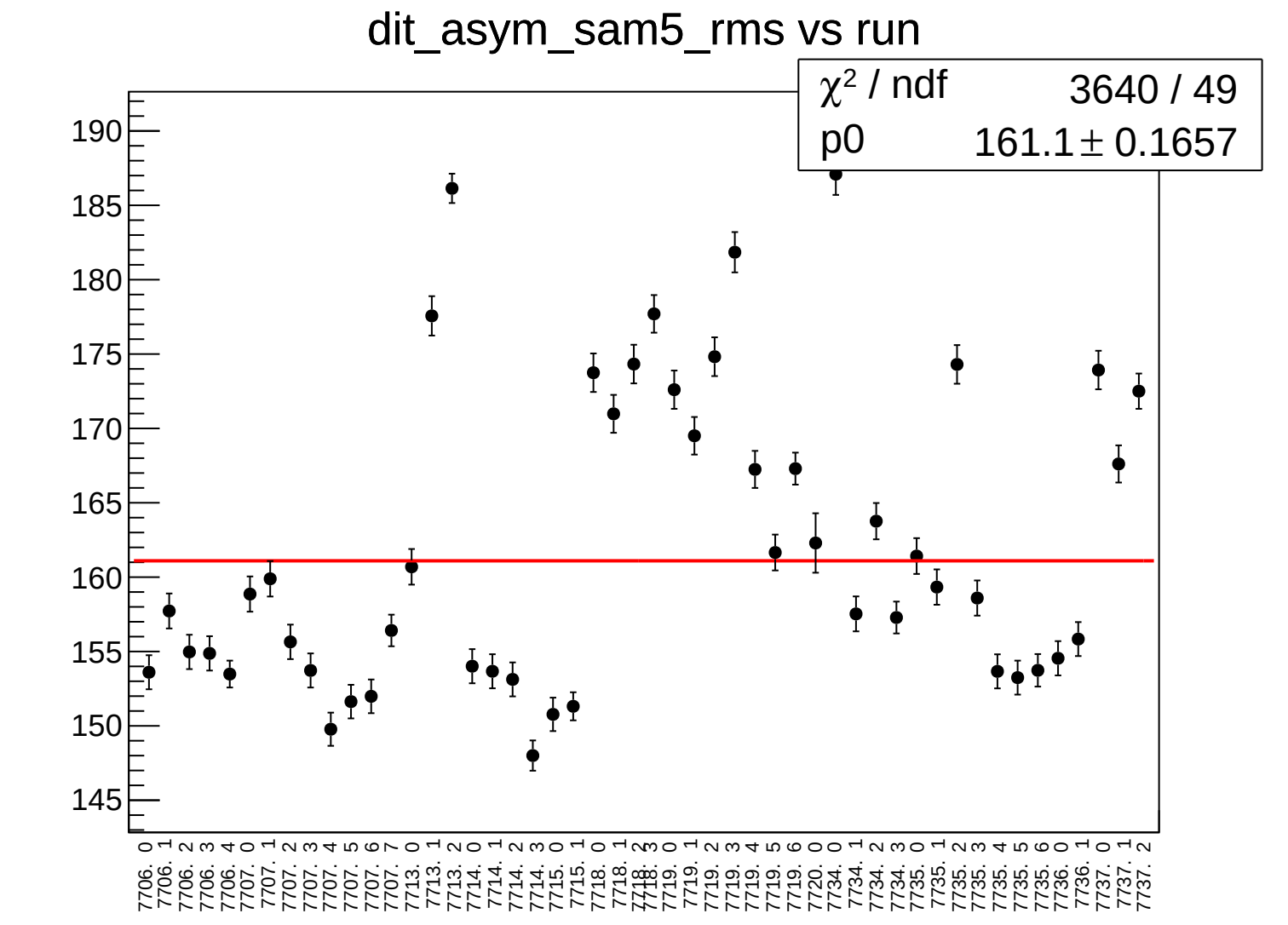

asym_sam4_mean vs run
×10^3
χ² / ndf 31.05 / 49
p0 −497.1± 6902
200
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 1102
Std Dev 1081
1.5
1
0.5
0
−0.5
−1
−1.5

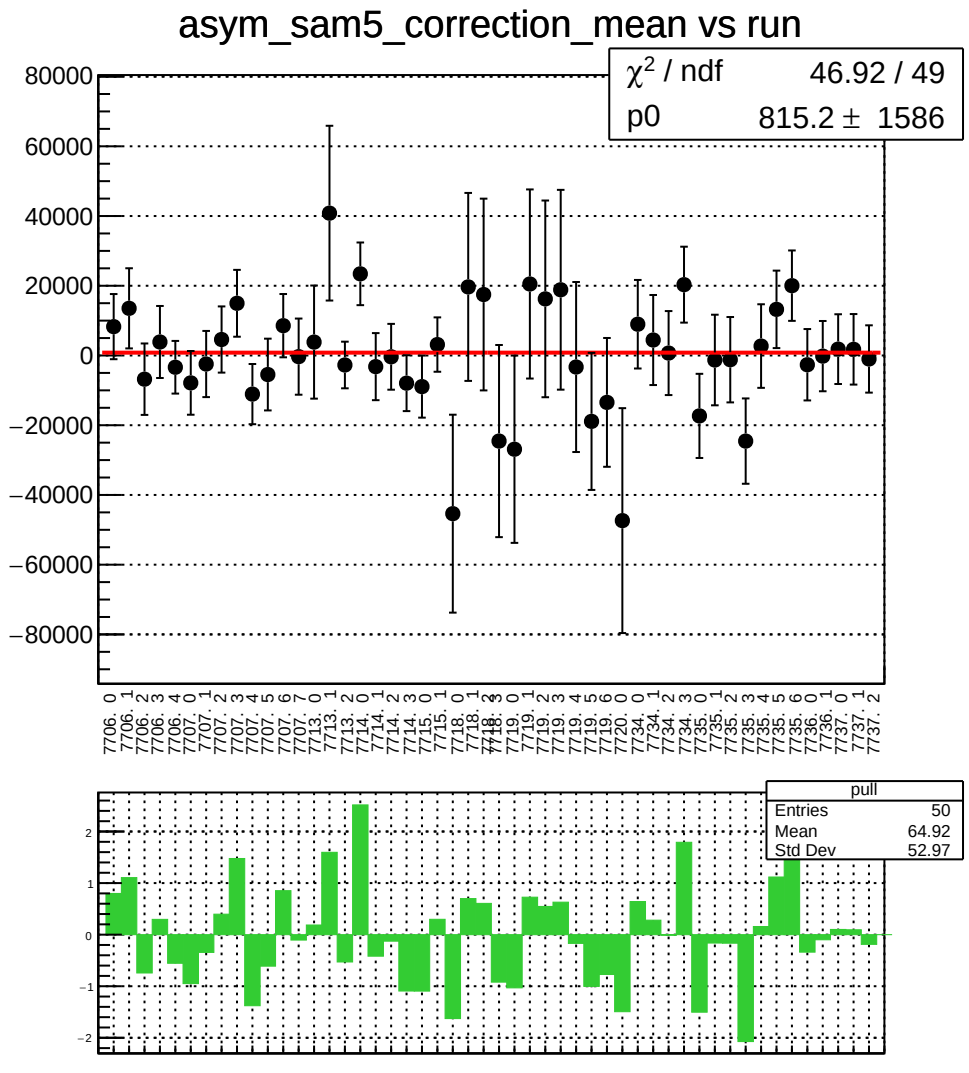

pull1D
Entries 50
Mean 0.003425
Std Dev 0.788
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

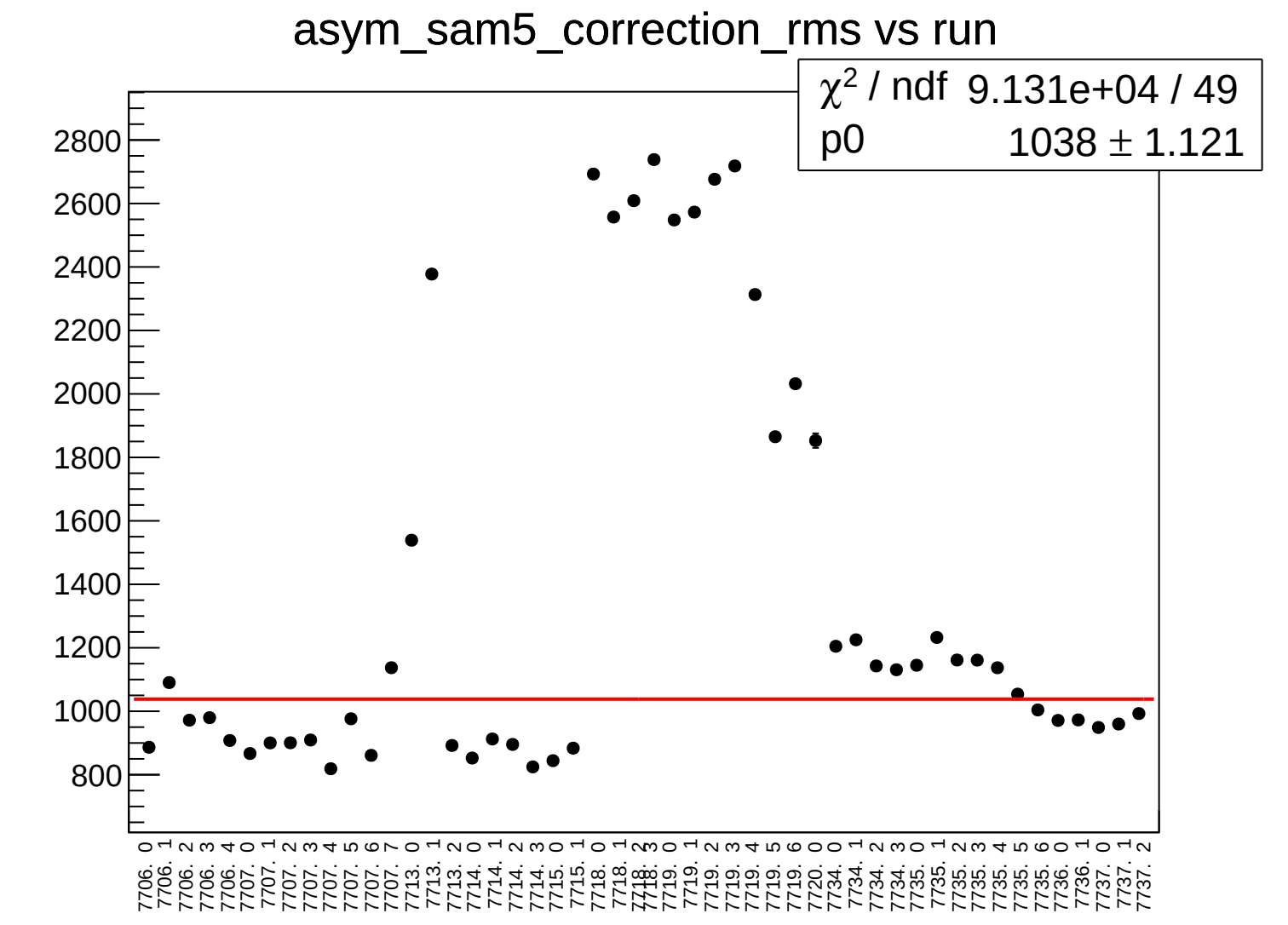

asym_sam4_rms vs run
χ² / ndf 2.901e+04 / 49
p0 4681 ± 4.881
7000
6500
6000
5500
5000
4500
4000
3500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

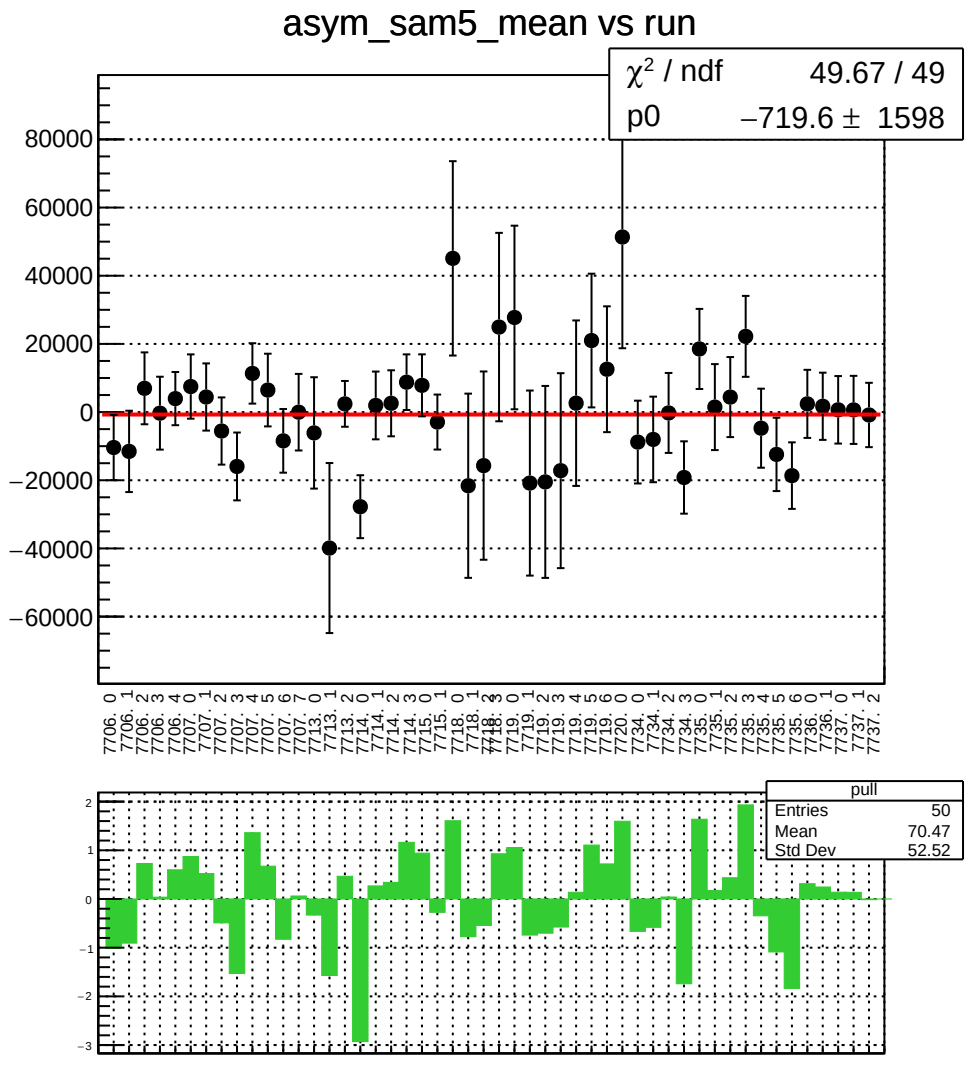

dit_asym_sam5_mean vs run
χ² / ndf 54.82 / 49
p0 77.24 ± 234.3
8000
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 85.01
Std Dev 31.89
2
1
0
−1
−2

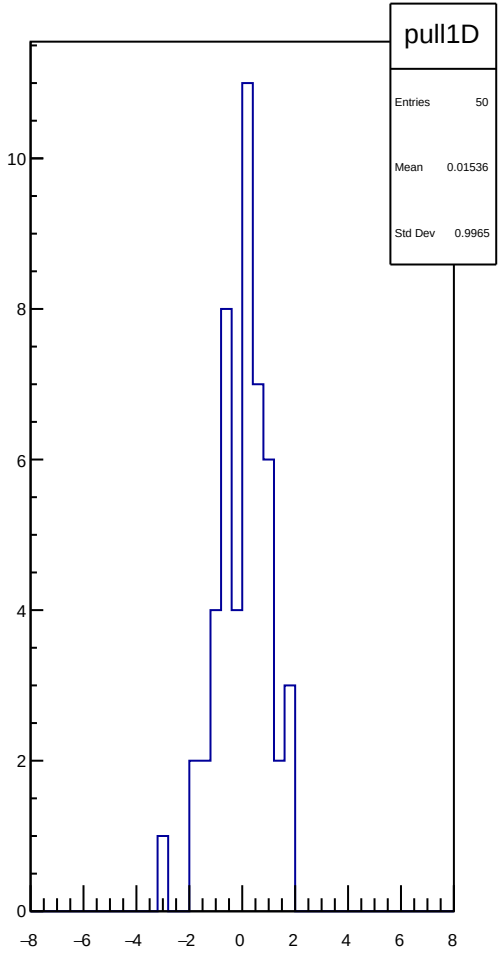

pull1D
Entries 50
Mean 0.01495
Std Dev 1.047
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

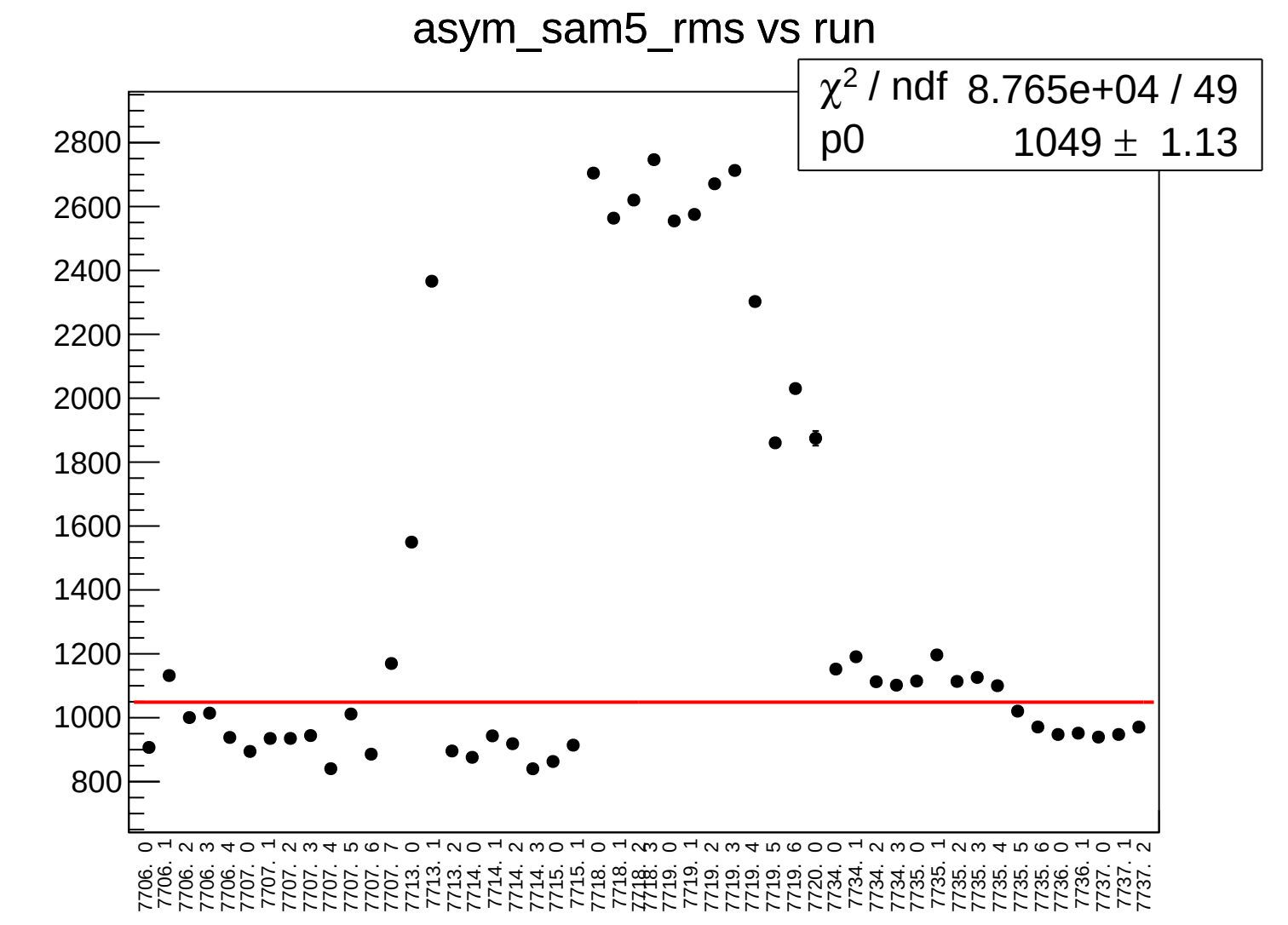

dit_asym_sam5_rms vs run
χ² / ndf 3640 / 49
p0 161.1 ± 0.1657
190
185
180
175
170
165
160
155
150
145
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

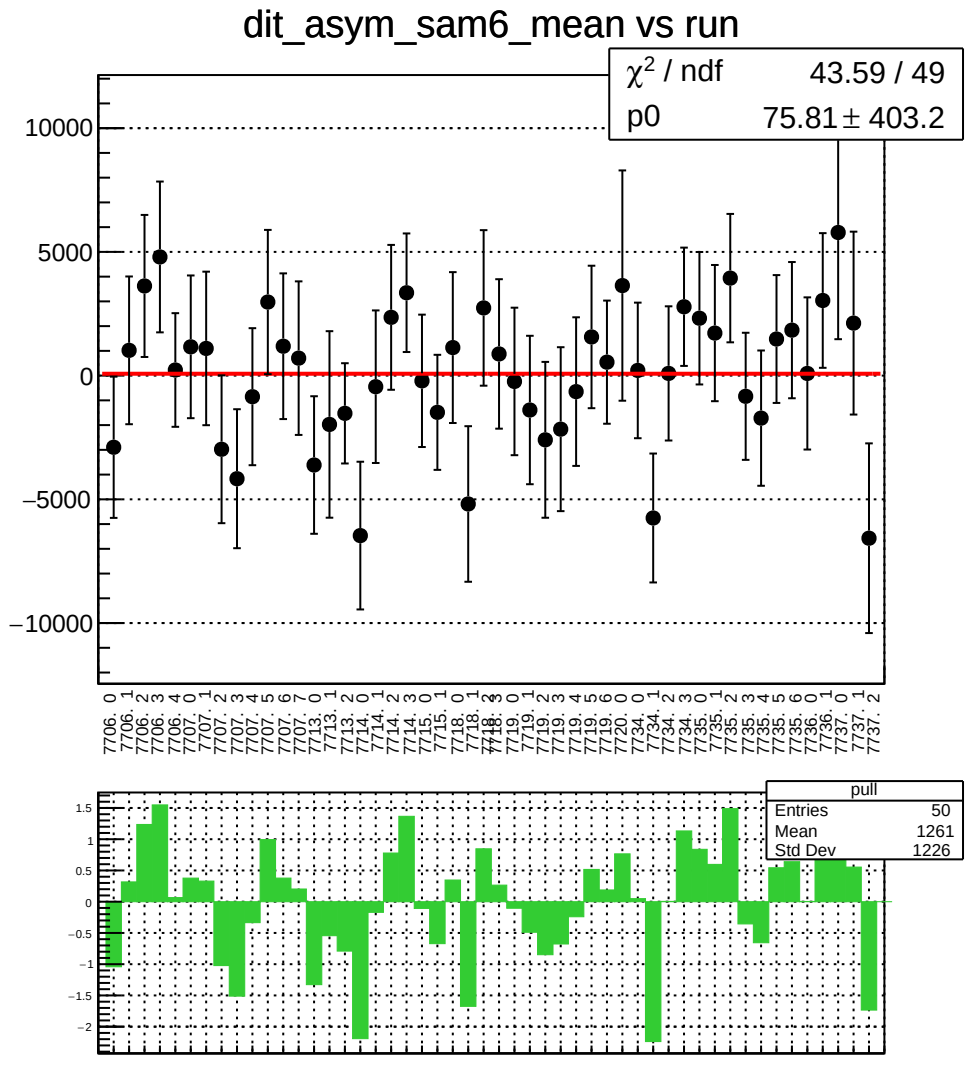

asym_sam5_correction_mean vs run
χ² / ndf 46.92 / 49
p0 815.2 ± 1586
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 64.92
Std Dev 52.97
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.01359
Std Dev 0.9686
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

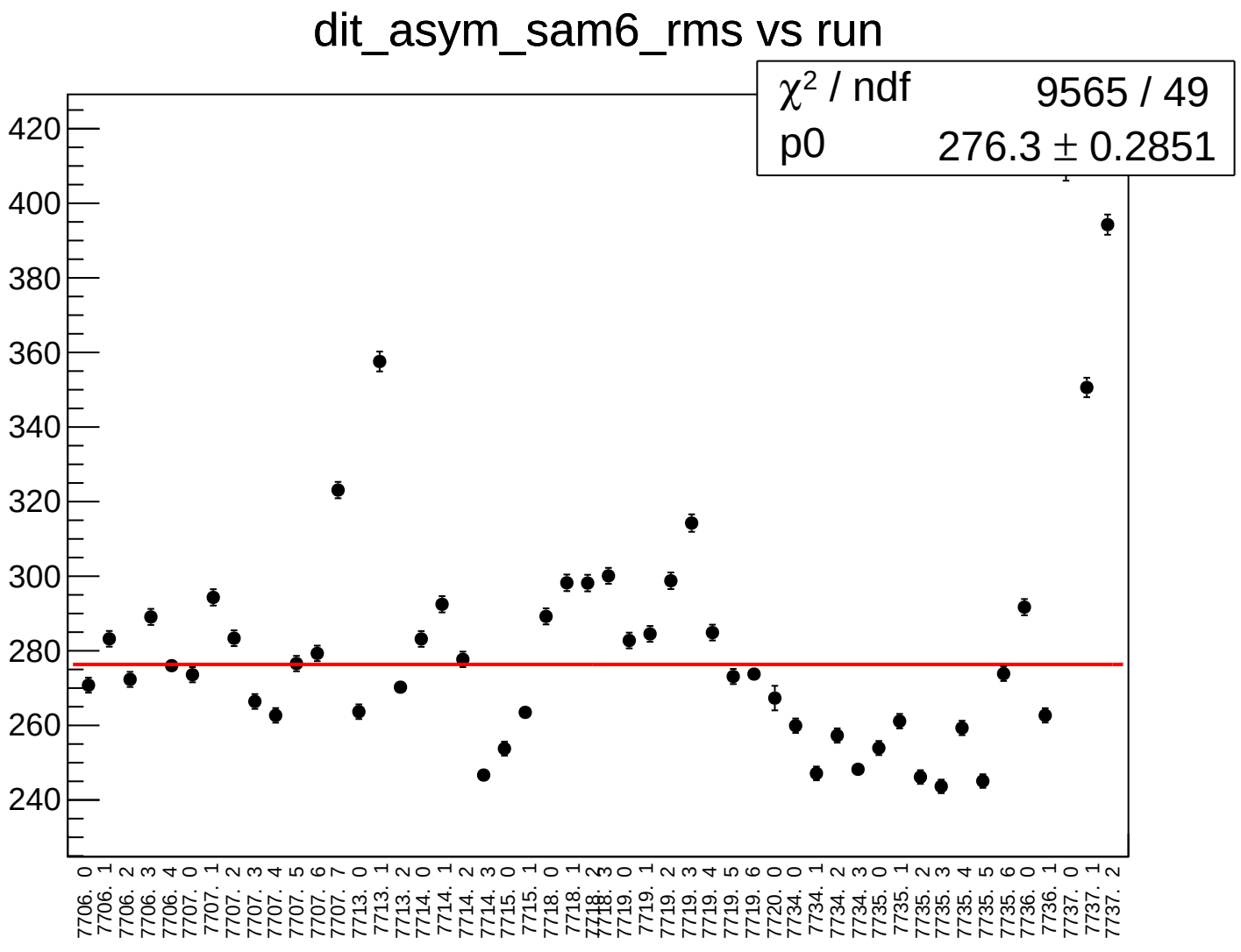

asym_sam5_correction_rms vs run
χ^2 / ndf 9.131e+04 / 49
p0 1038 ± 1.121
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

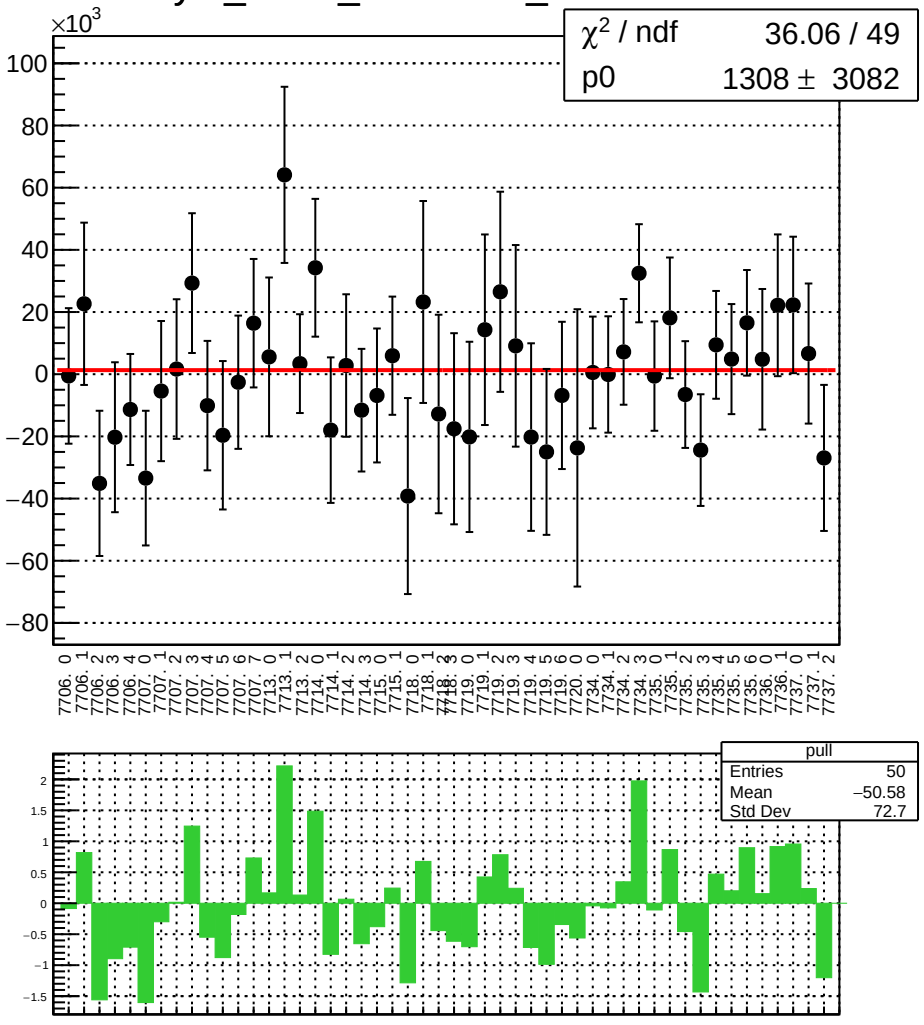

asym_sam5_mean vs run
χ² / ndf 49.67 / 49
p0 −719.6 ± 1598
80000
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 70.47
Std Dev 52.52
2
1
0
−1
−2
−3

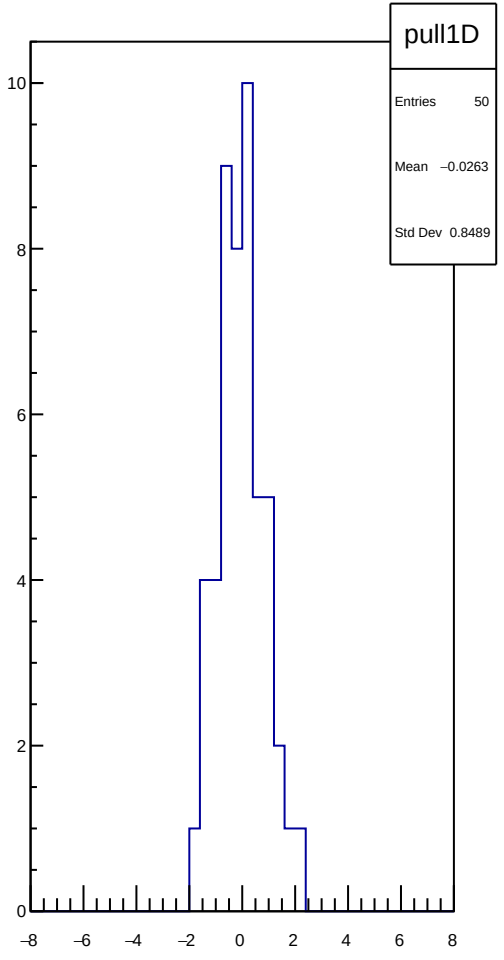

pull1D
Entries 50
Mean 0.01536
Std Dev 0.9965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

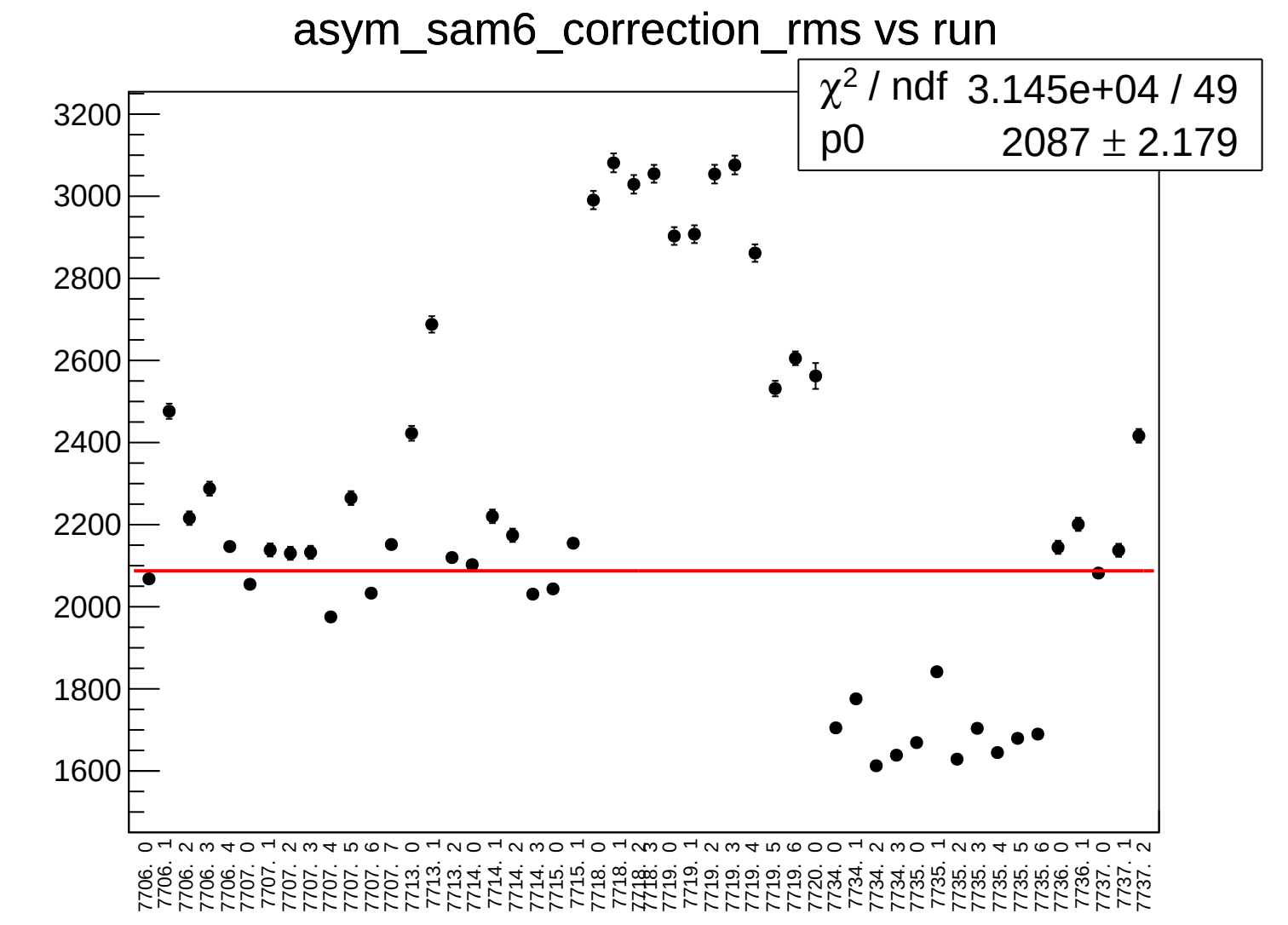

asym_sam5_rms vs run
χ² / ndf 8.765e+04 / 49
p0 1049 ± 1.13
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

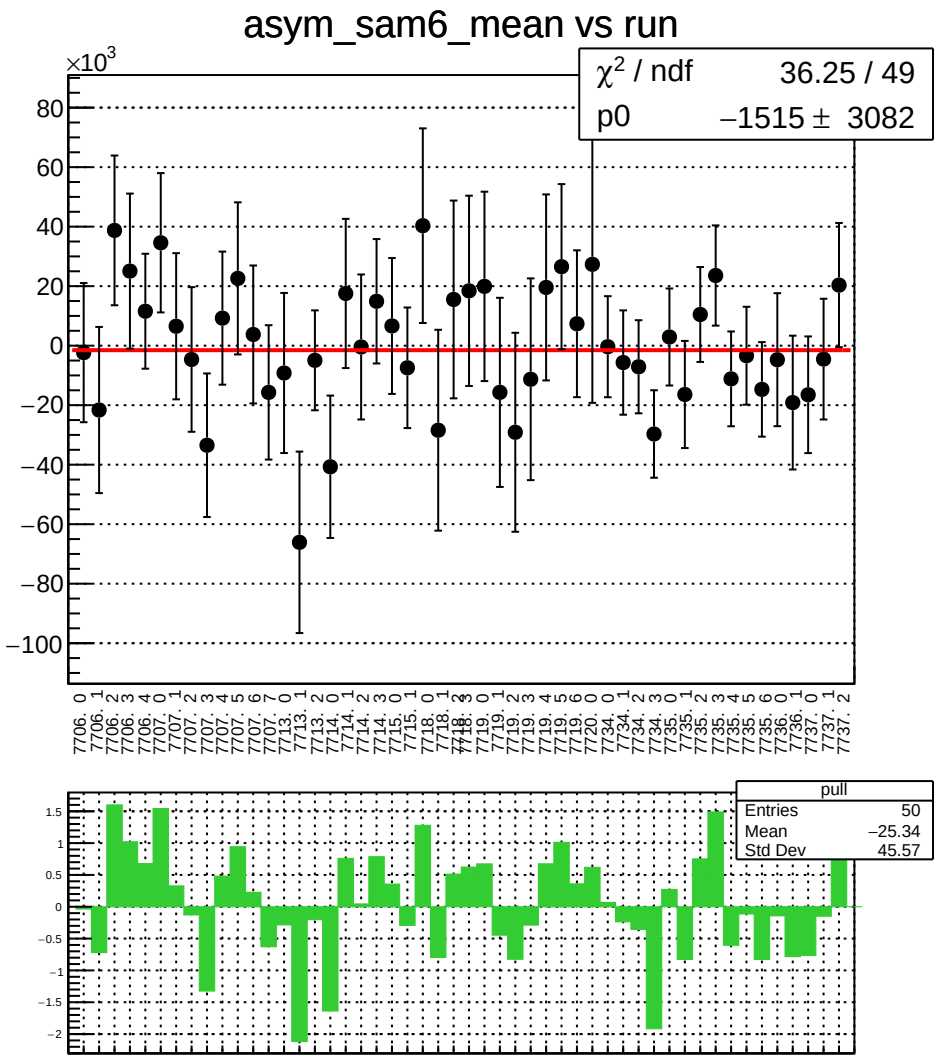

dit_asym_sam6_mean vs run
χ² / ndf 43.59 / 49
p0 75.81 ± 403.2
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 1261
Std Dev 1226
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.001195
Std Dev 0.9337
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

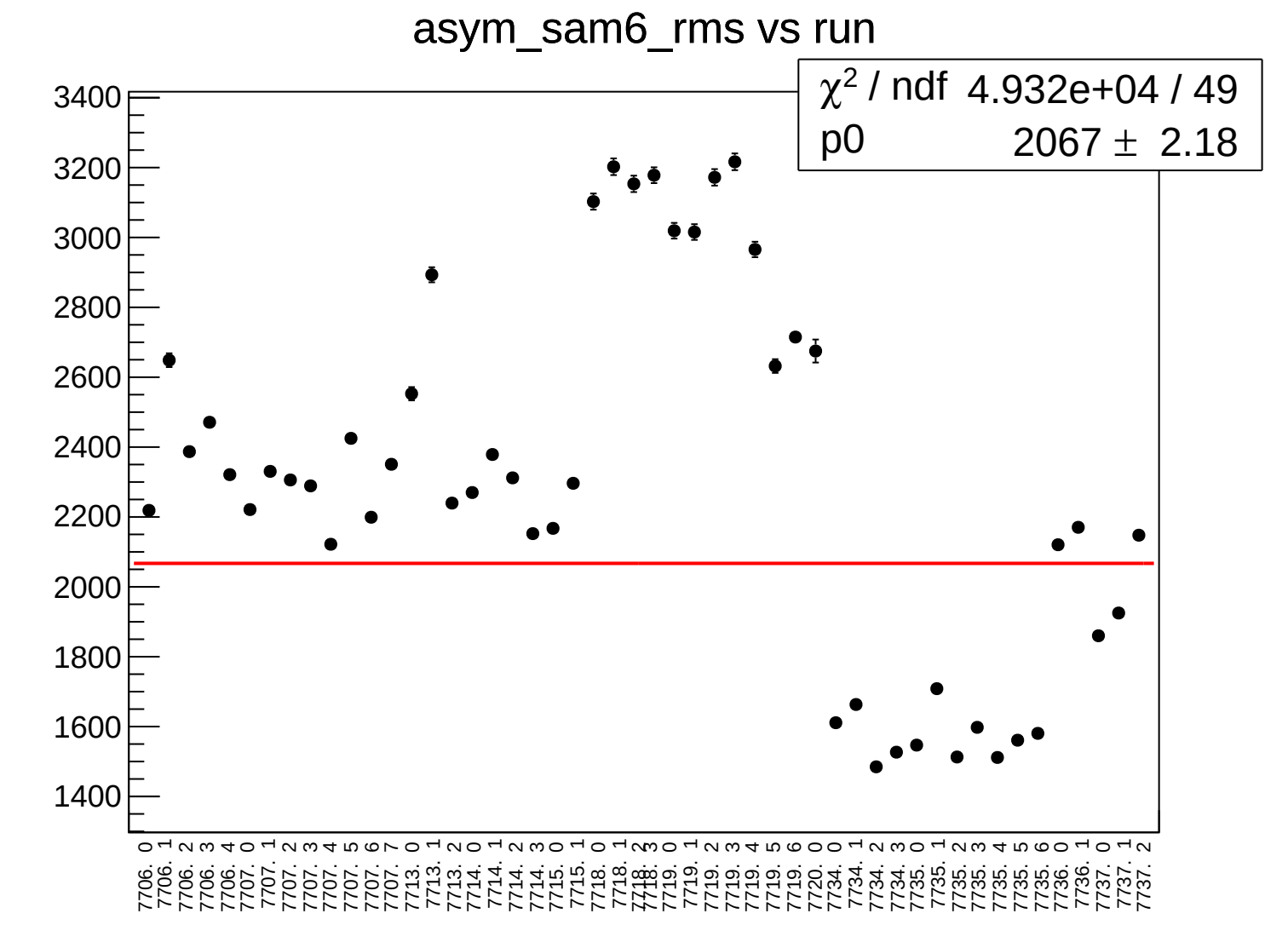

dit_asym_sam6_rms vs run
χ² / ndf 9565 / 49
p0 276.3 ± 0.2851
420
400
380
360
340
320
300
280
260
240
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

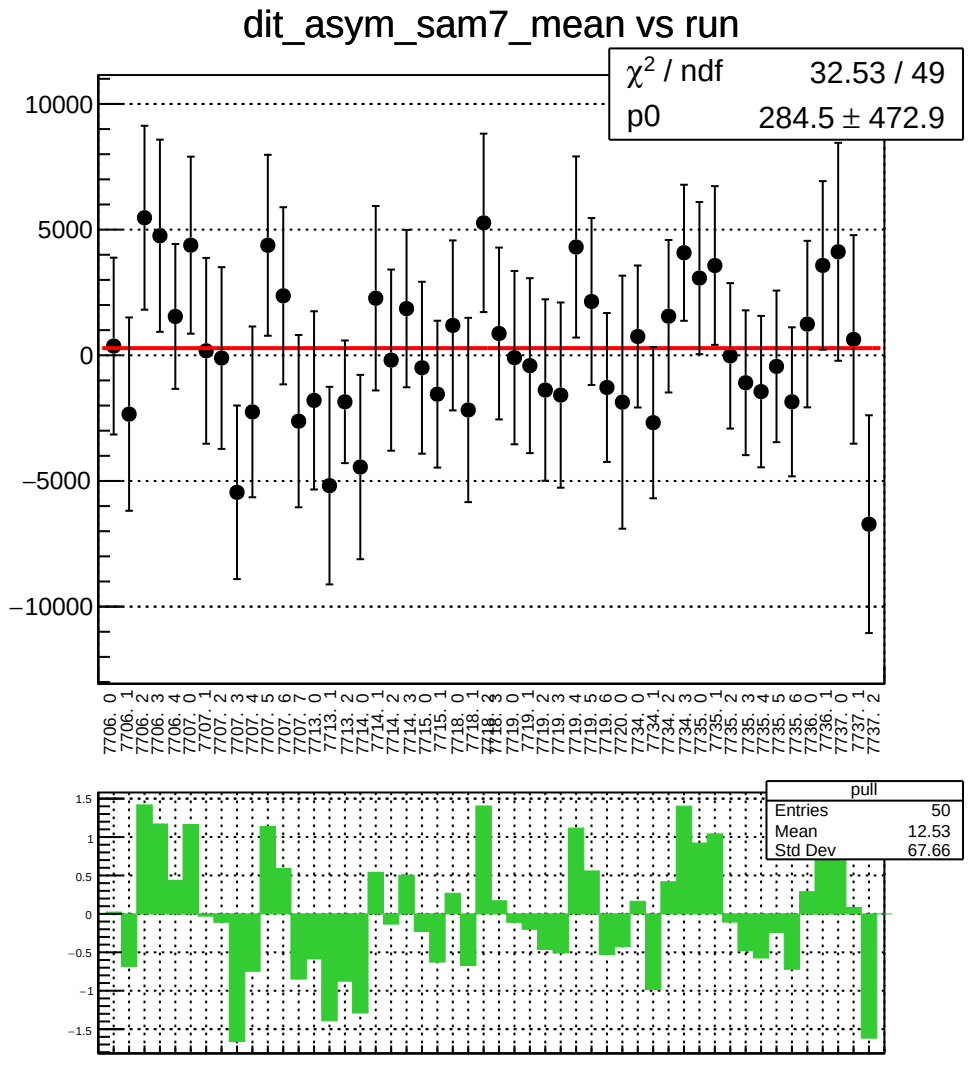

asym_sam6_correction_mean vs run
×10^3
χ² / ndf 36.06 / 49
p0 1308 ± 3082
pull
Entries 50
Mean −50.58
Std Dev 72.7

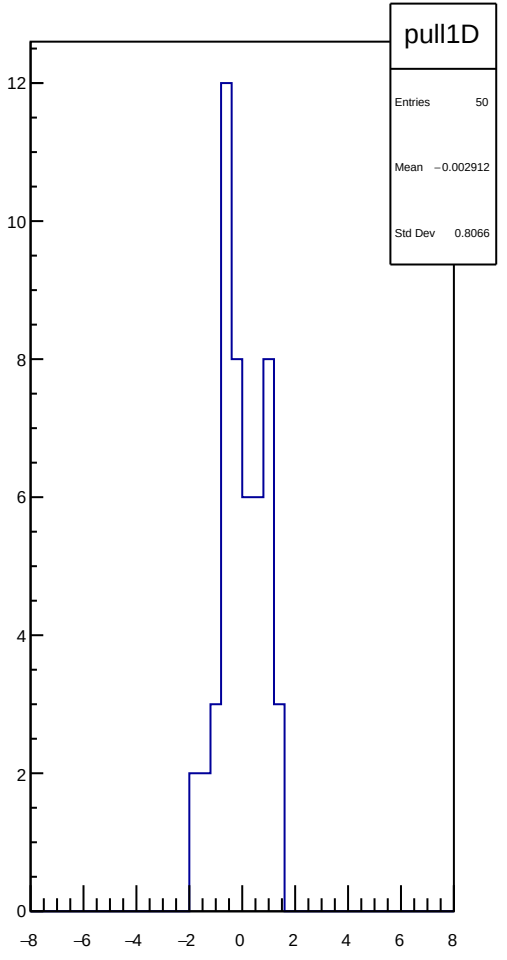

pull1D
Entries 50
Mean −0.0263
Std Dev 0.8489

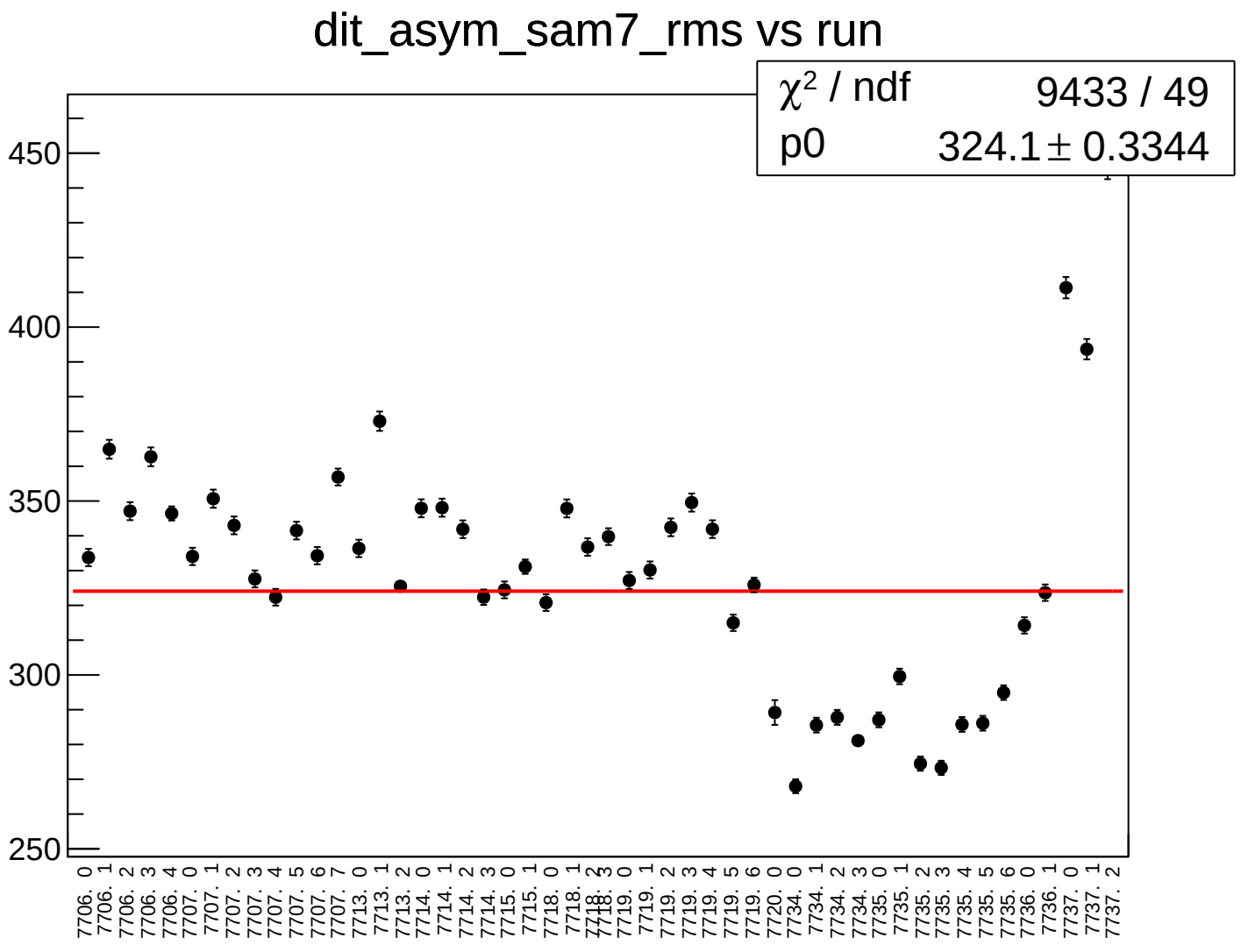

asym_sam6_correction_rms vs run
χ² / ndf 3.145e+04 / 49
p0 2087 ± 2.179
3200
3000
2800
2600
2400
2200
2000
1800
1600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

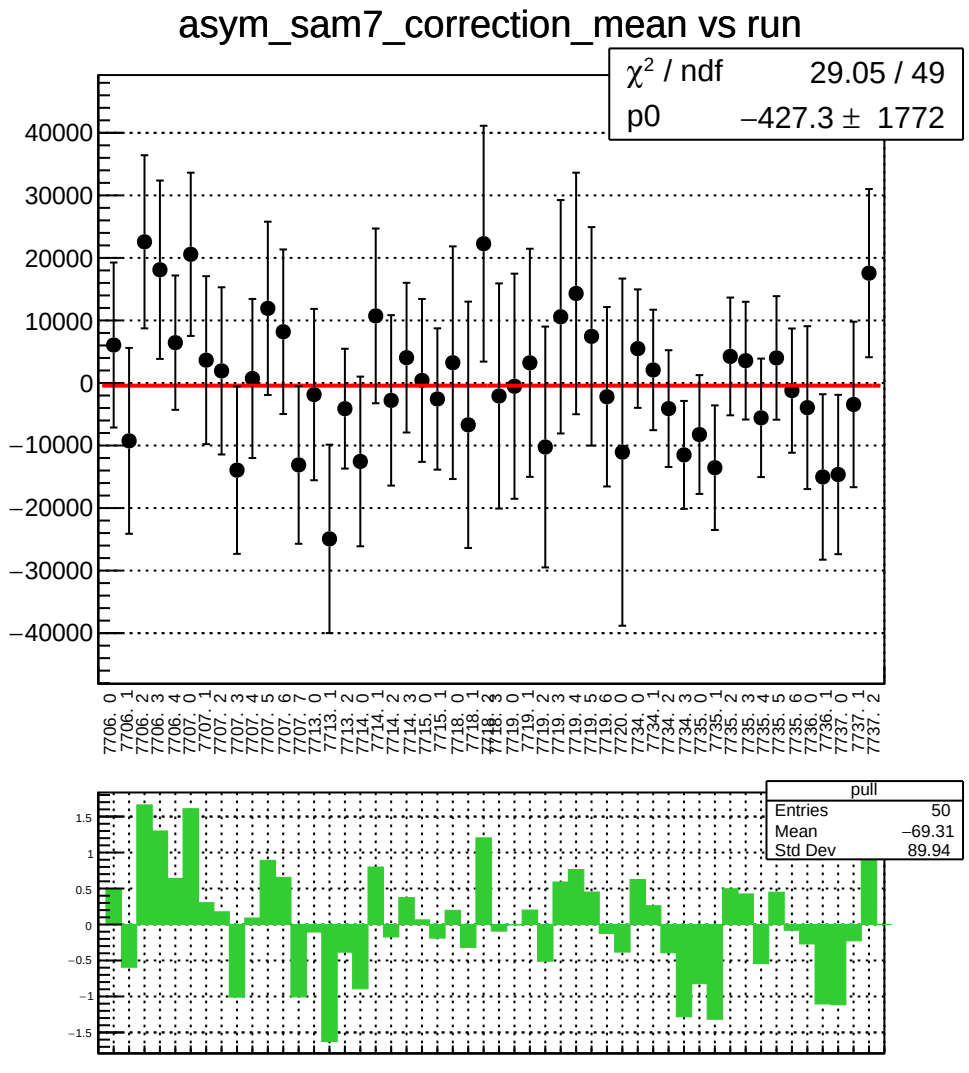

asym_sam6_mean vs run
×10^3
χ² / ndf 36.25 / 49
p0 −1515 ± 3082
80
60
40
20
0
−20
−40
−60
−80
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −25.34
Std Dev 45.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.034
Std Dev 0.8507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

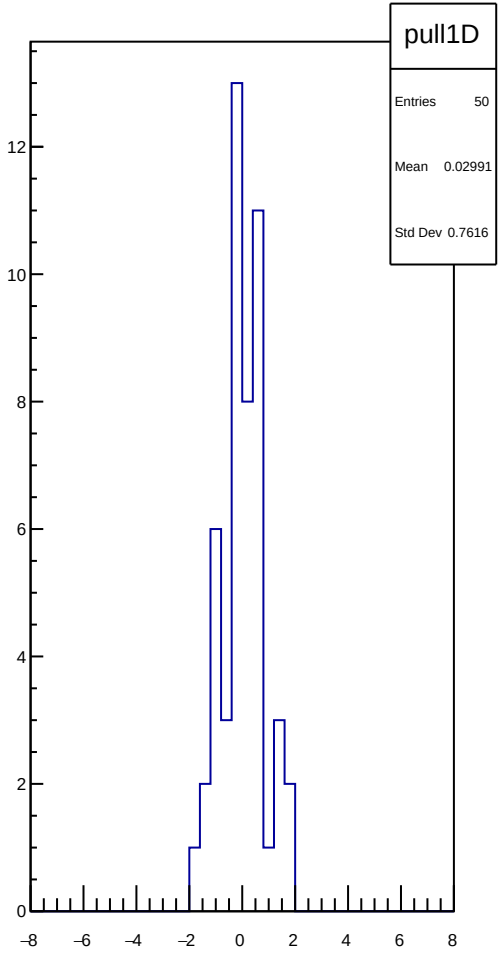

asym_sam6_rms vs run
χ² / ndf 4.932e+04 / 49
p0 2067 ± 2.18
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

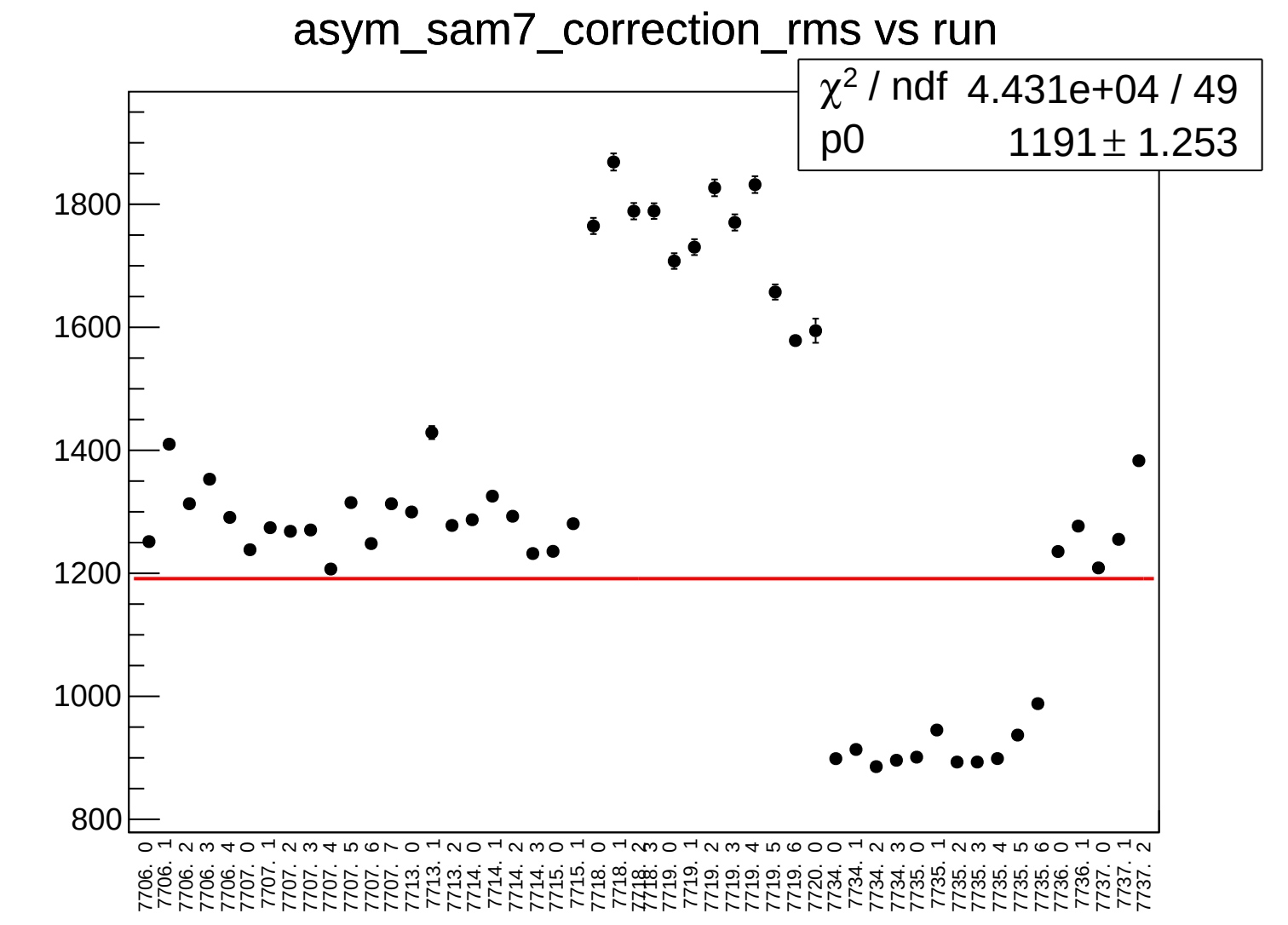

dit_asym_sam7_mean vs run
χ² / ndf 32.53 / 49
p0 284.5 ± 472.9
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 12.53
Std Dev 67.66
1.5
1
0.5
0
−0.5
−1
−1.5




dit_asym_sam7_rms vs run
χ² / ndf 9433 / 49
p0 324.1 ± 0.3344
450
400
350
300
250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam7_correction_mean vs run
χ² / ndf 29.05 / 49
p0 −427.3 ± 1772
pull
Entries 50
Mean −69.31
Std Dev 89.94


pull1D
Entries 50
Mean 0.02991
Std Dev 0.7616


asym_sam7_correction_rms vs run
χ² / ndf 4.431e+04 / 49
p0 1191 ± 1.253
1800
1600
1400
1200
1000
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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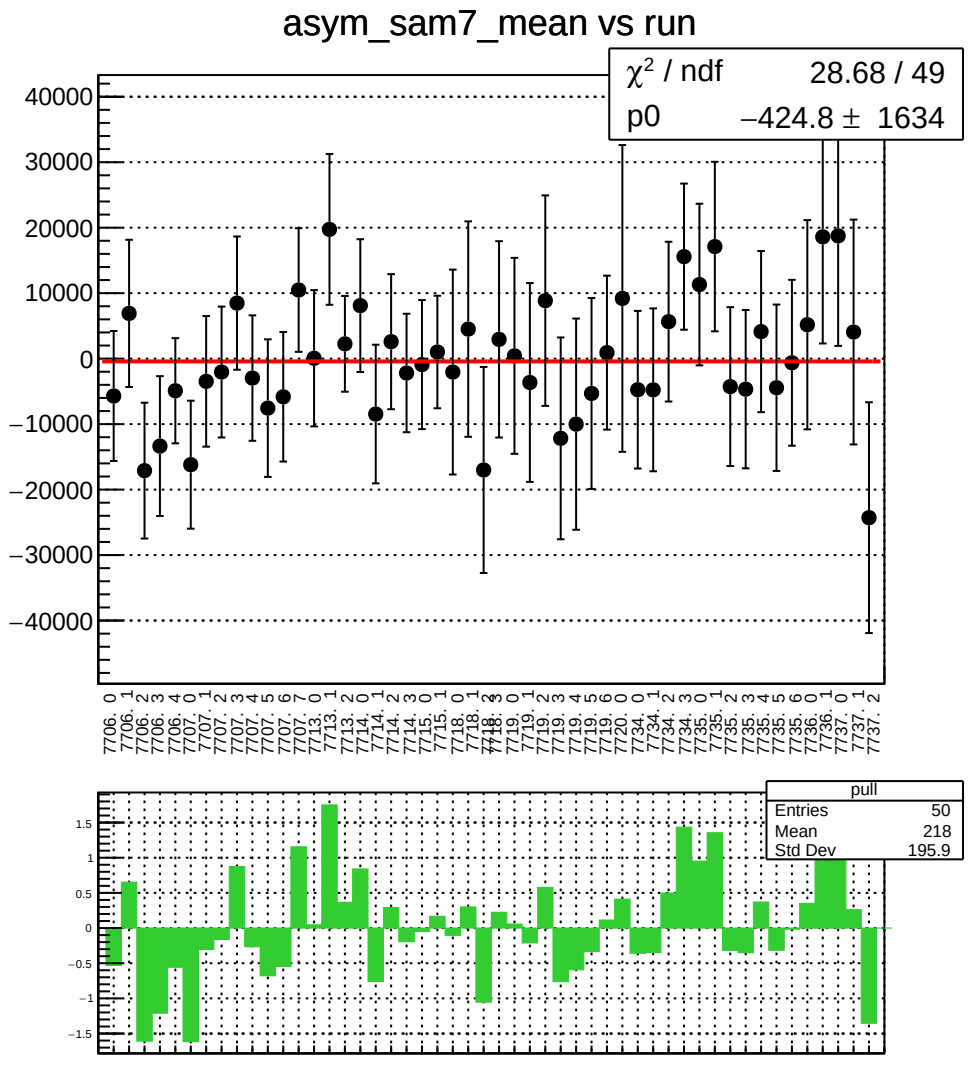
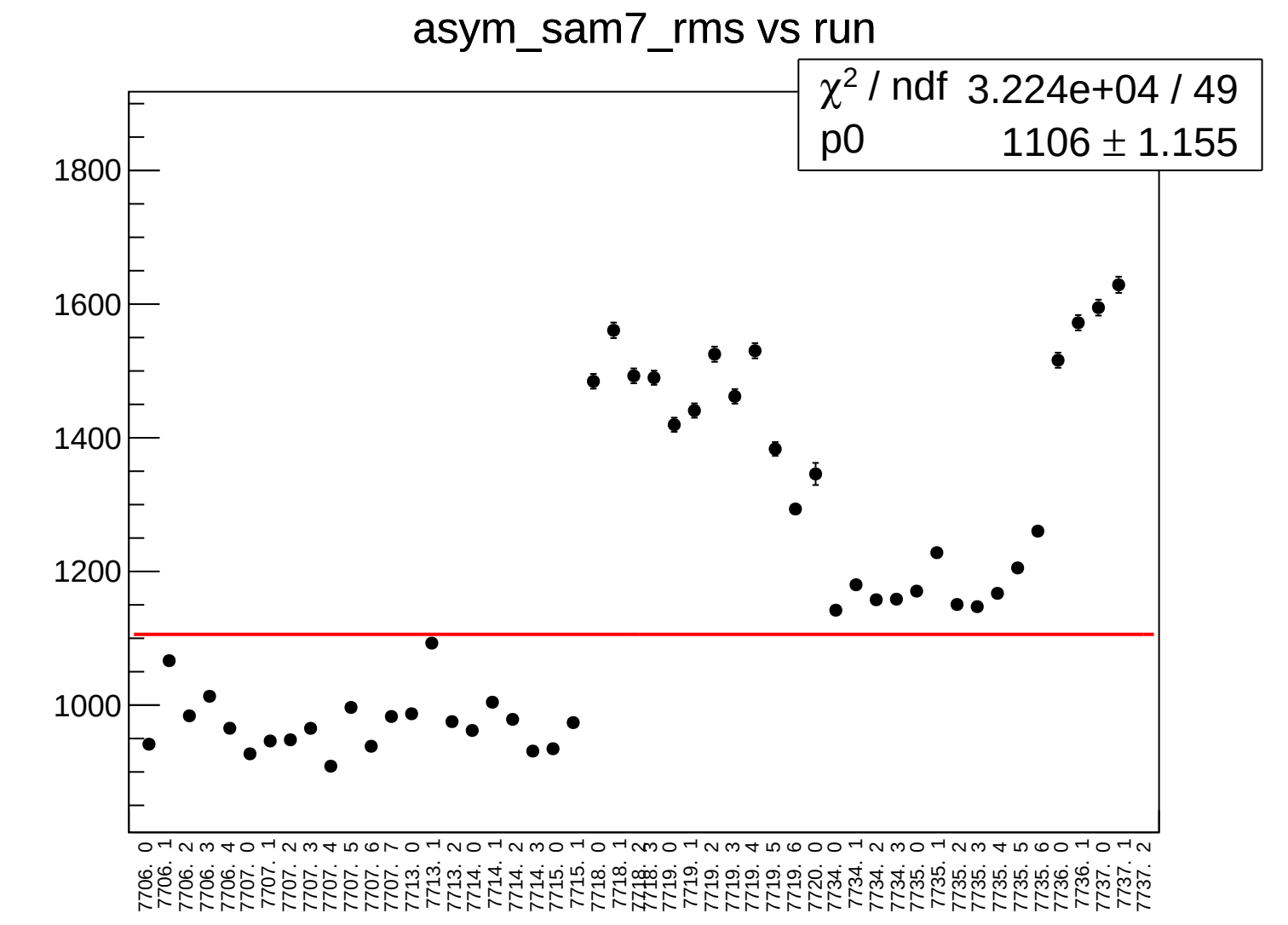
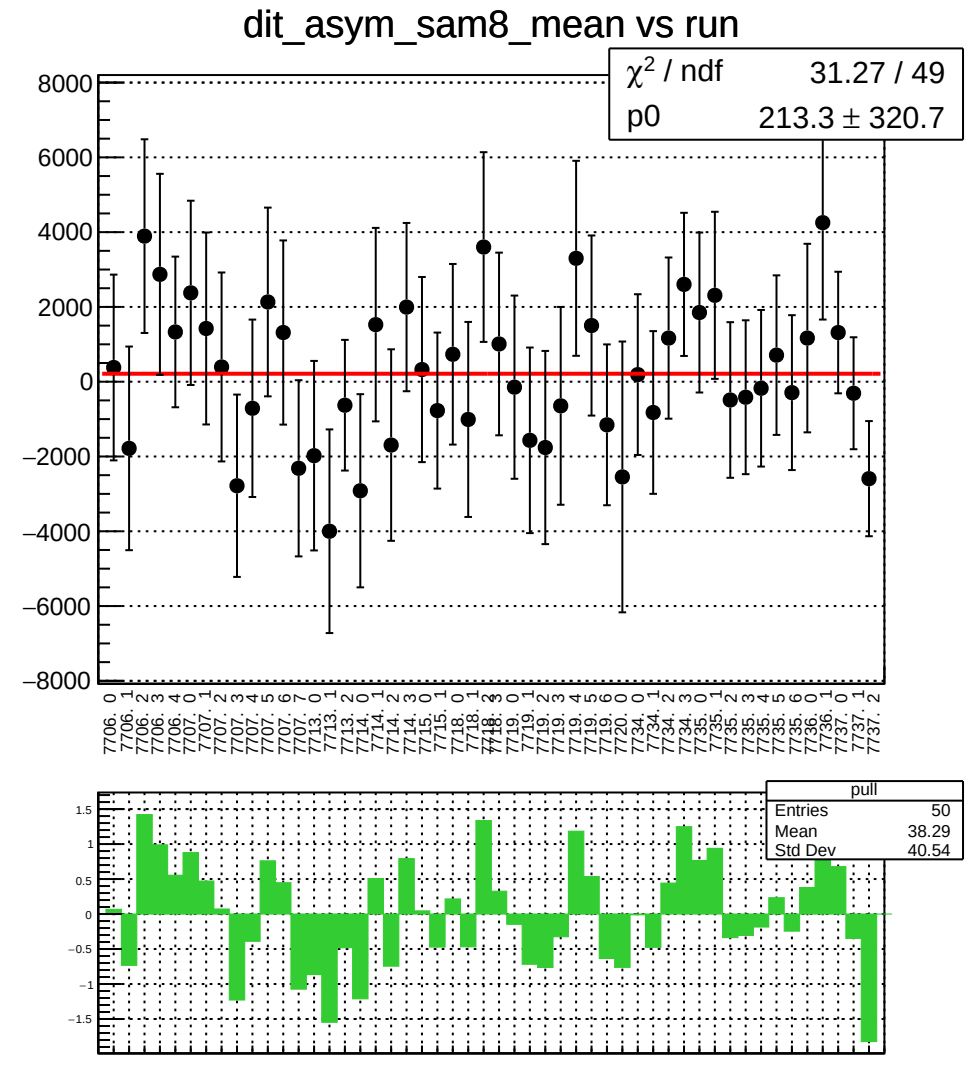
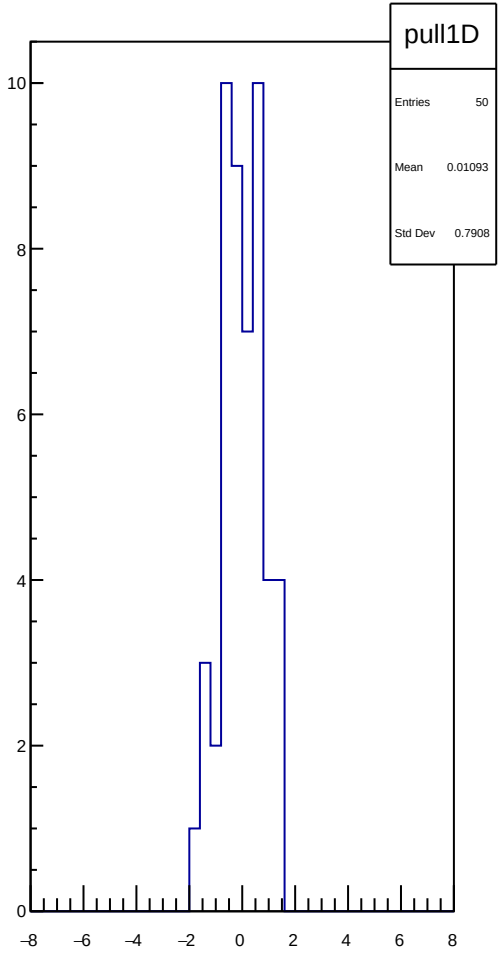
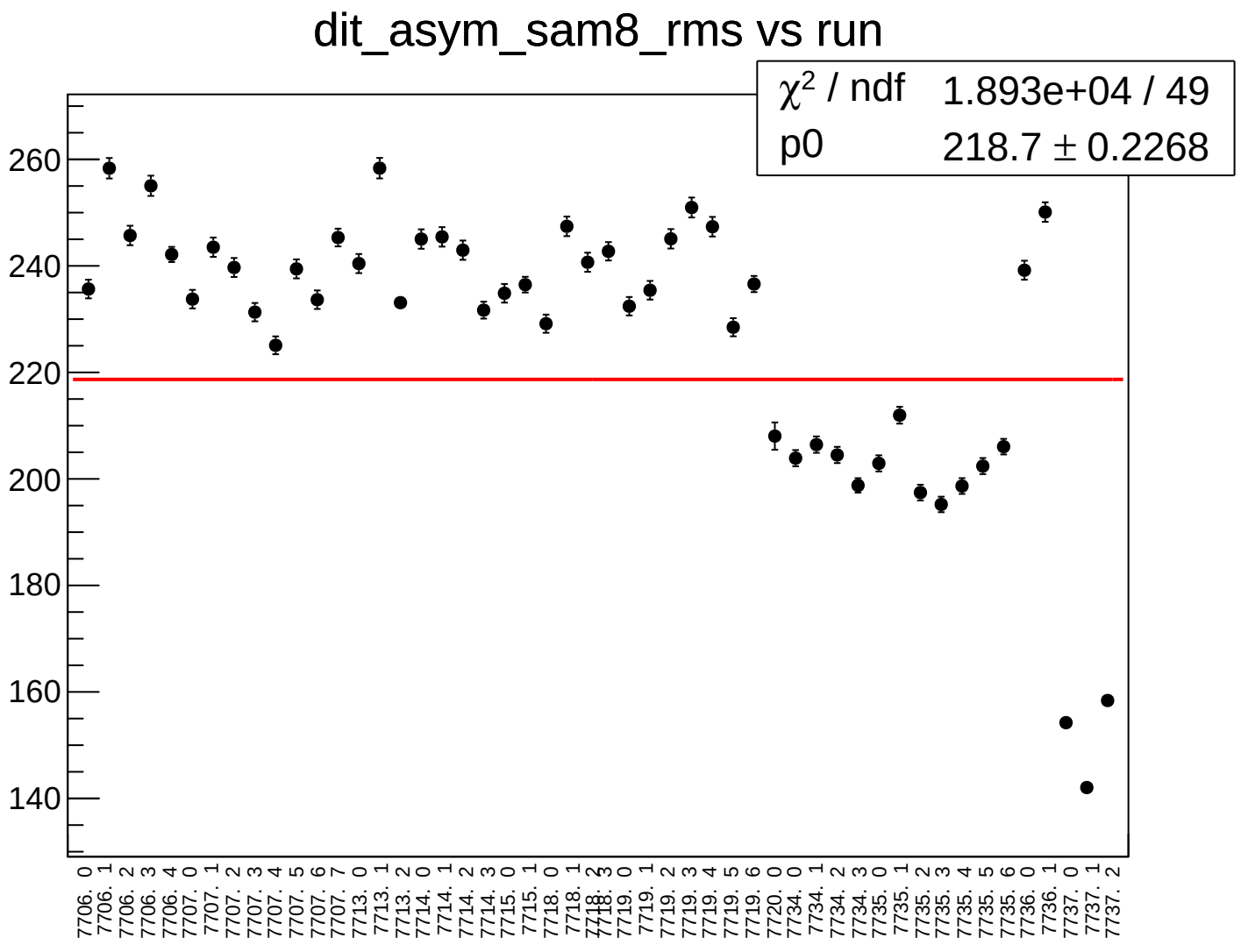
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam7_mean vs run
χ² / ndf 28.68 / 49
p0 −424.8 ± 1634
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 218
Std Dev 195.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01511
Std Dev 0.7572
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_rms vs run
χ² / ndf 3.224e+04 / 49
p0 1106 ± 1.155
1800
1600
1400
1200
1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam8_mean vs run
χ² / ndf 31.27 / 49
p0 213.3 ± 320.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 38.29
Std Dev 40.54
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.01093
Std Dev 0.7908
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam8_rms vs run
χ² / ndf 1.893e+04 / 49
p0 218.7 ± 0.2268
260
240
220
200
180
160
140
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
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7735. 0
7735. 1
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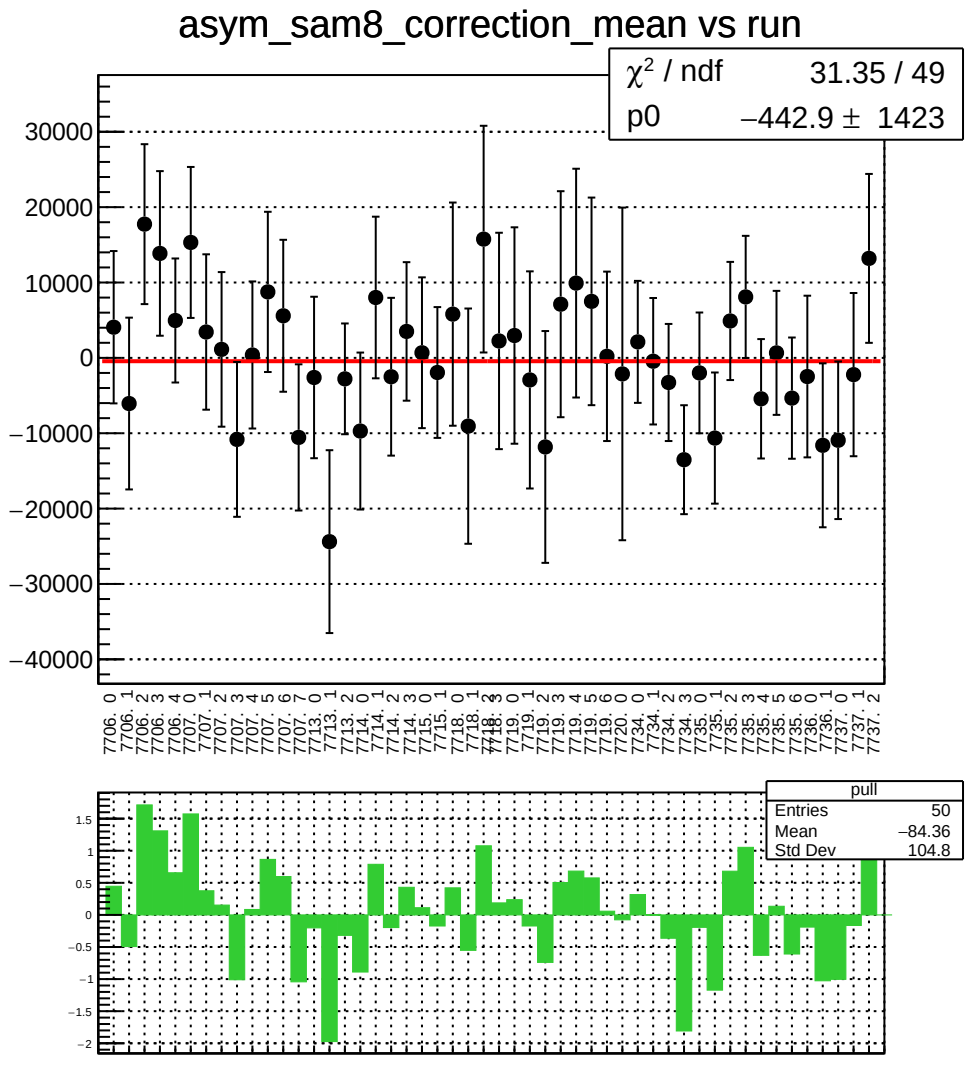
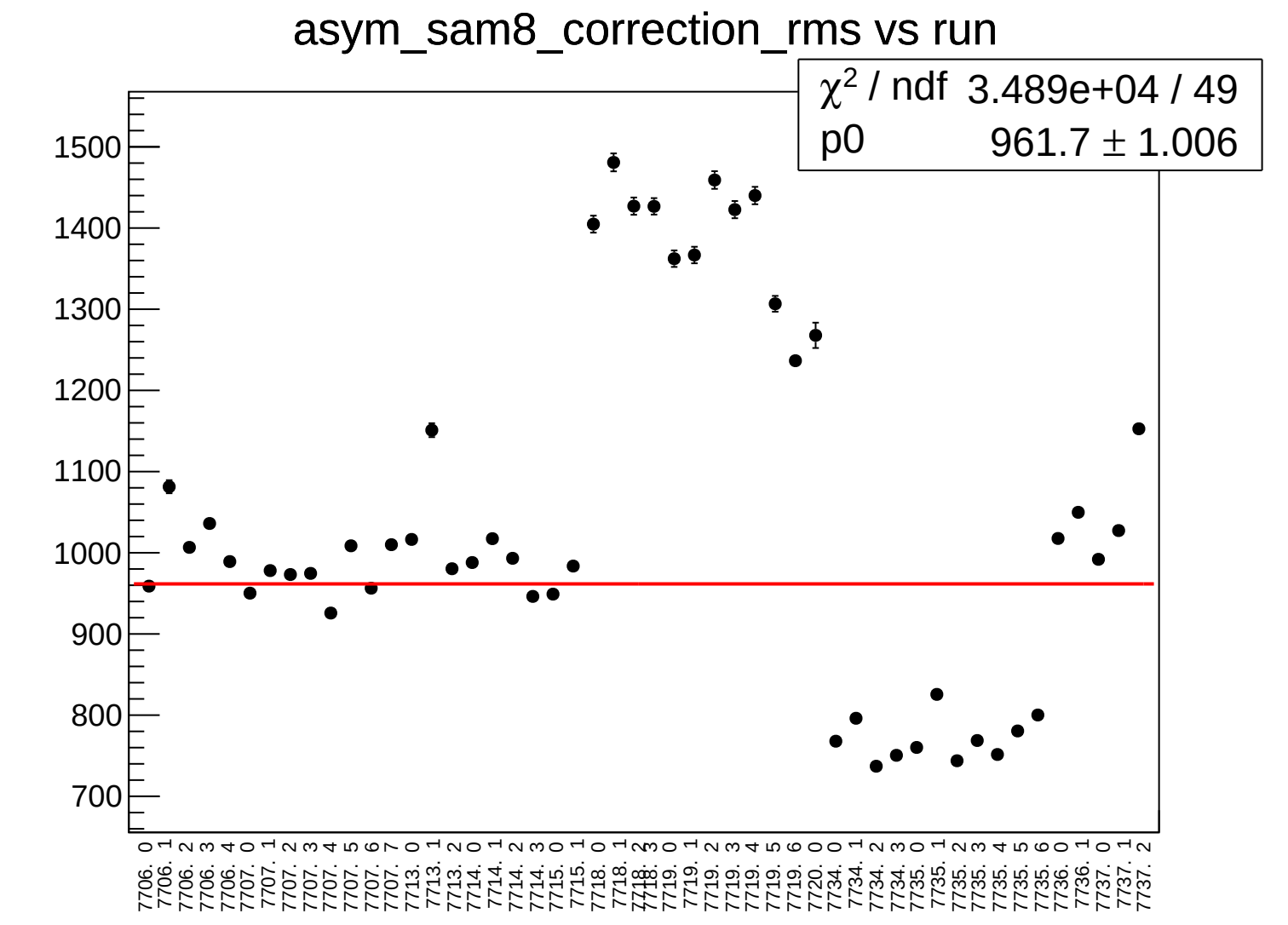
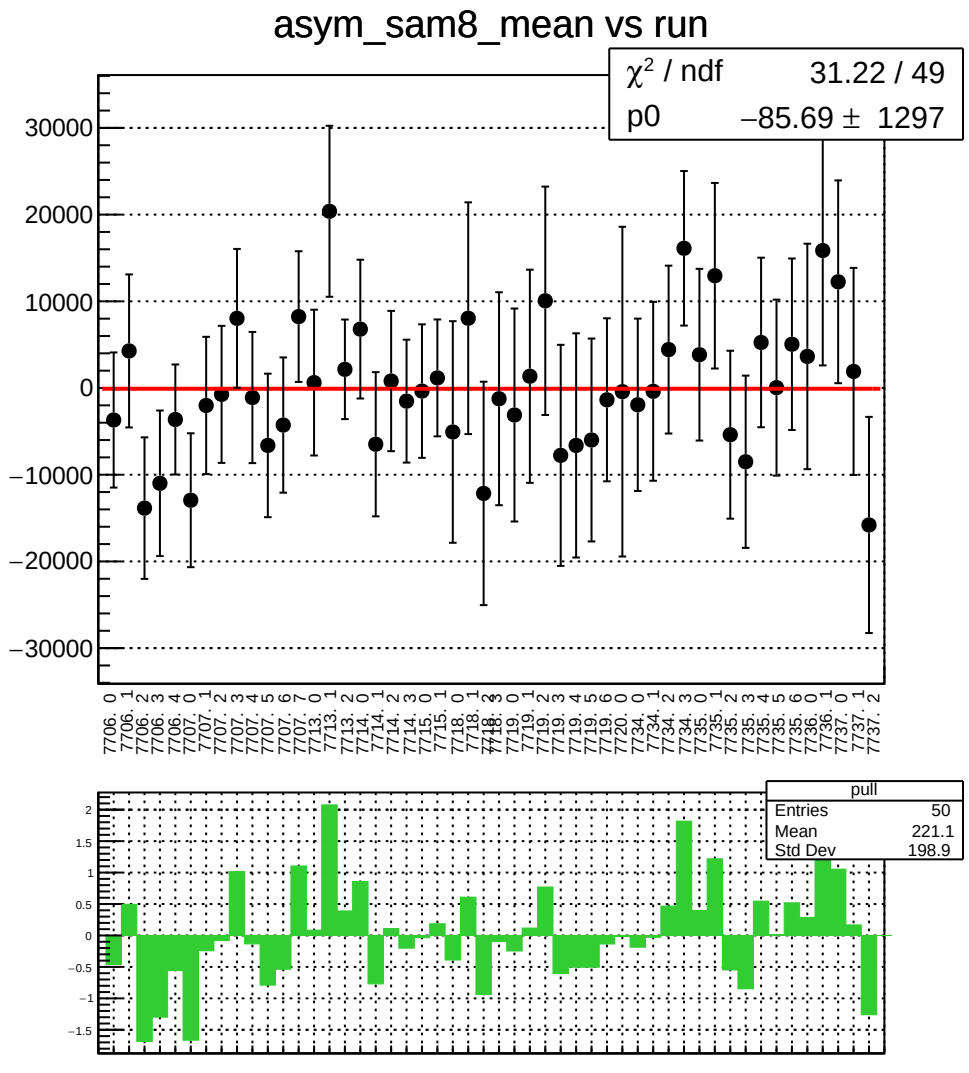
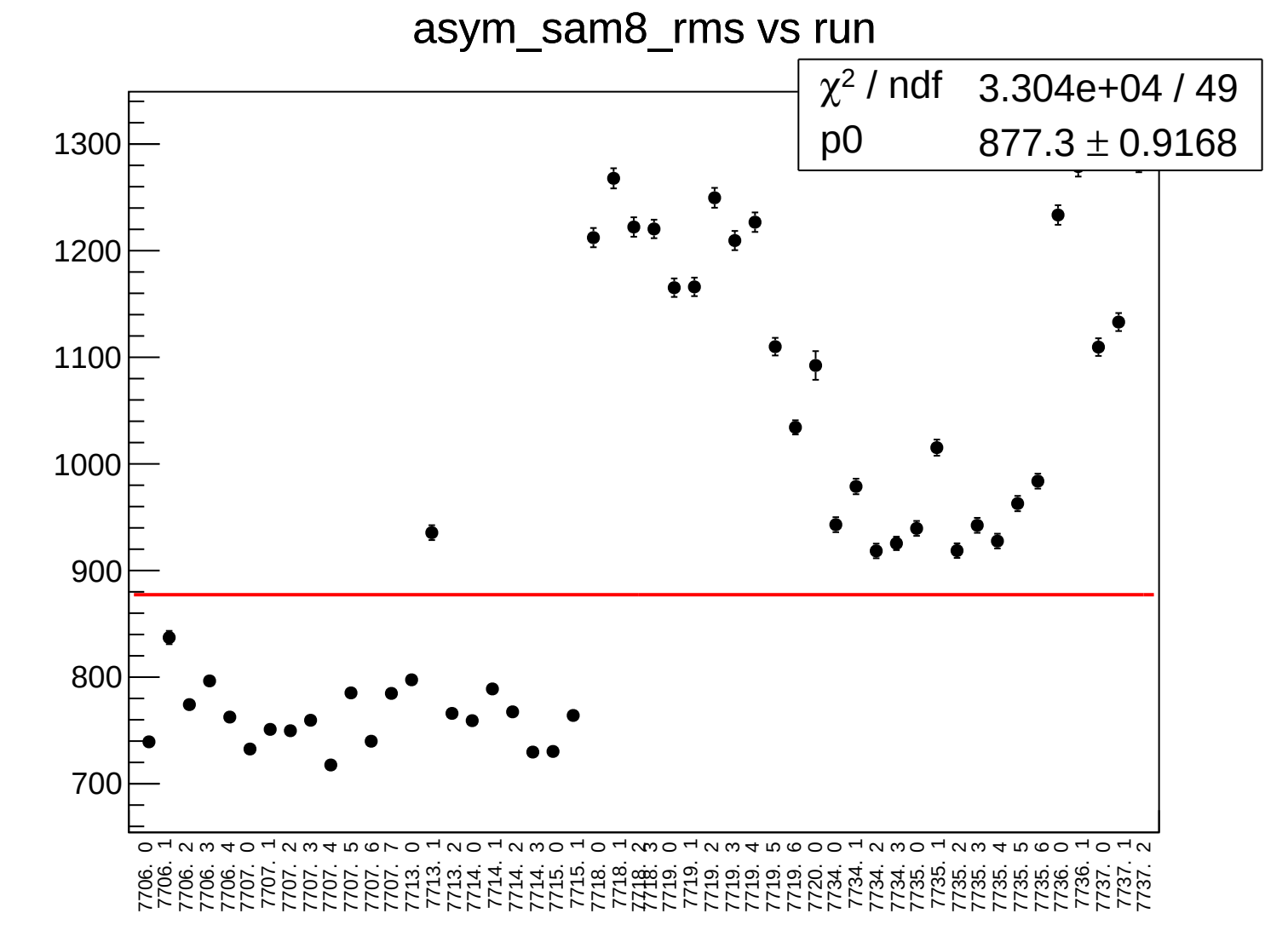
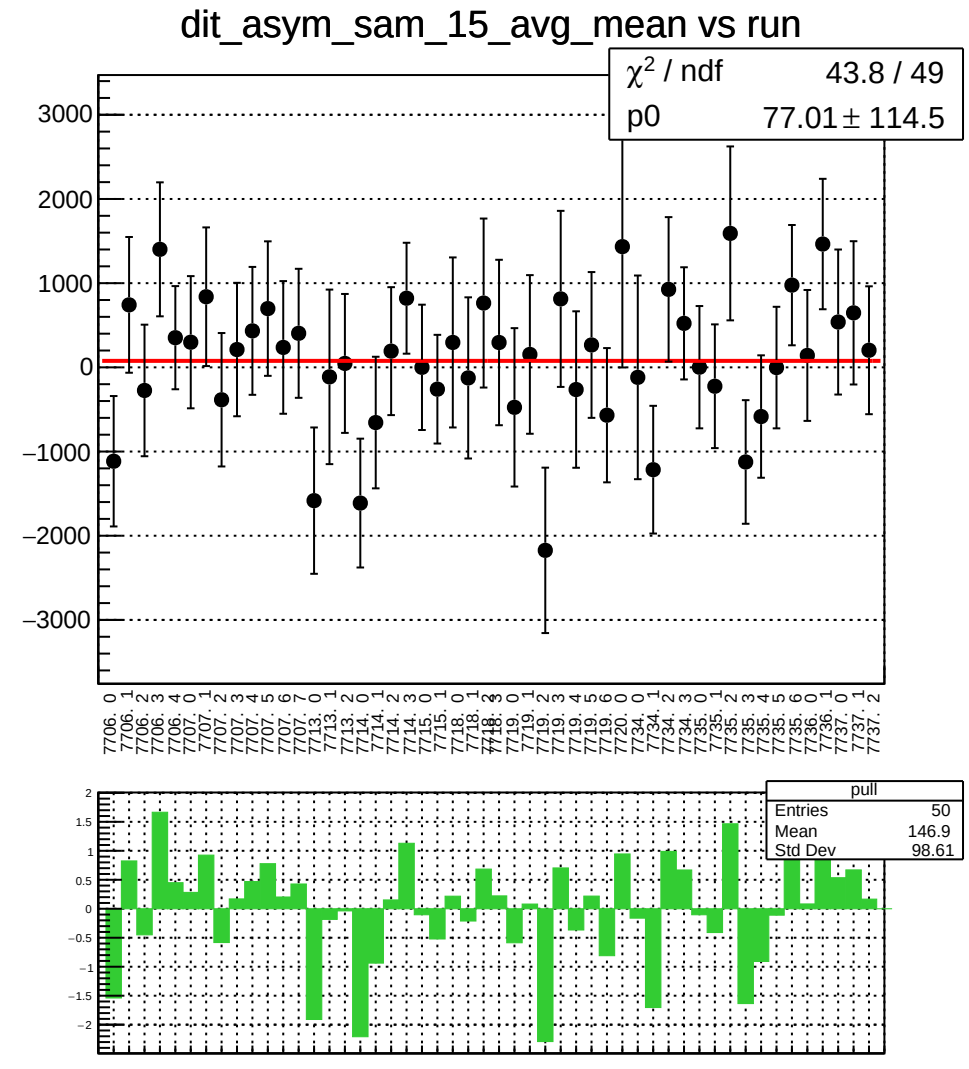
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

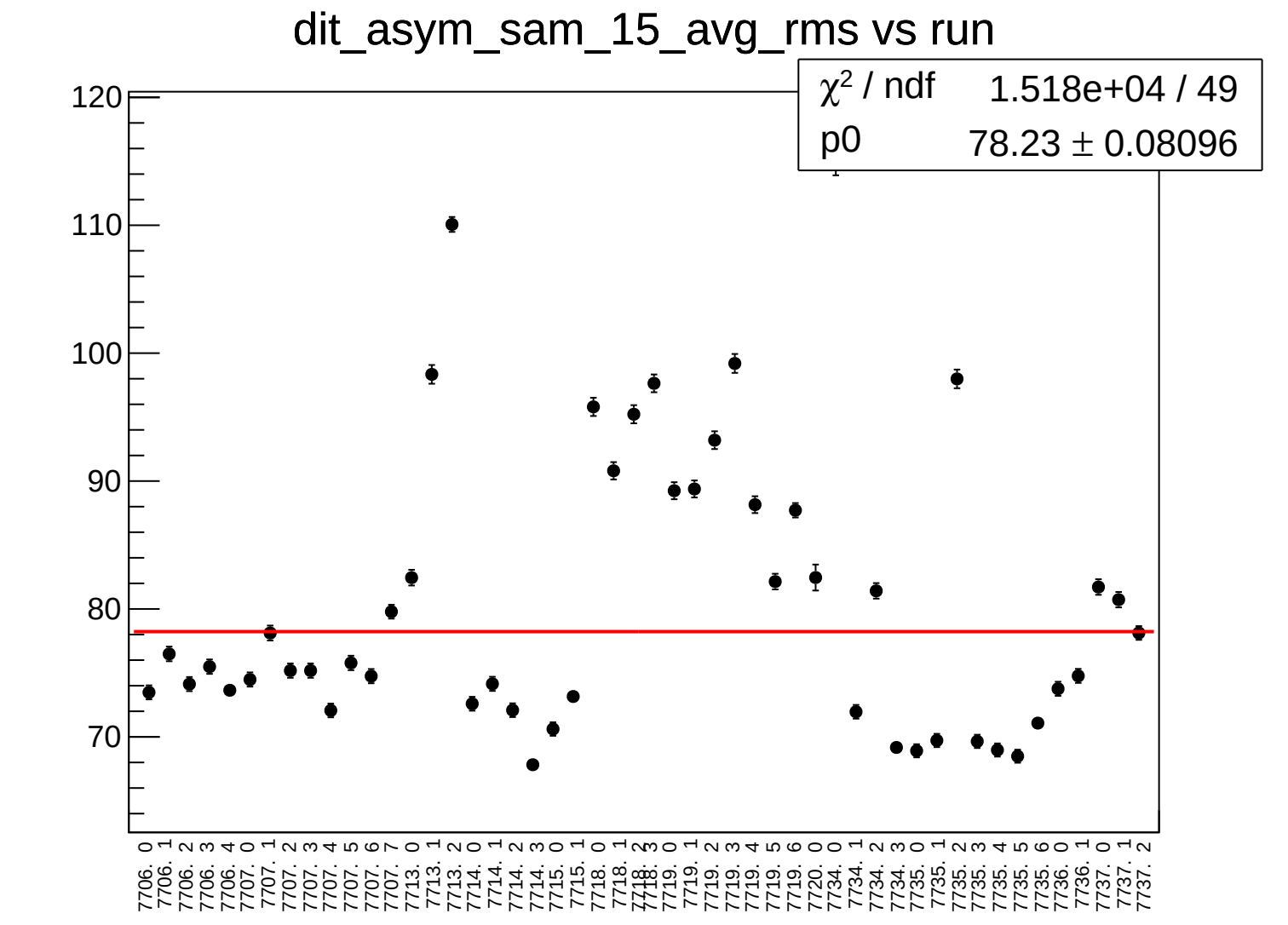

asym_sam8_correction_mean vs run
χ² / ndf 31.35 / 49
p0 −442.9 ± 1423
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −84.36
Std Dev 104.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.02516
Std Dev 0.7915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

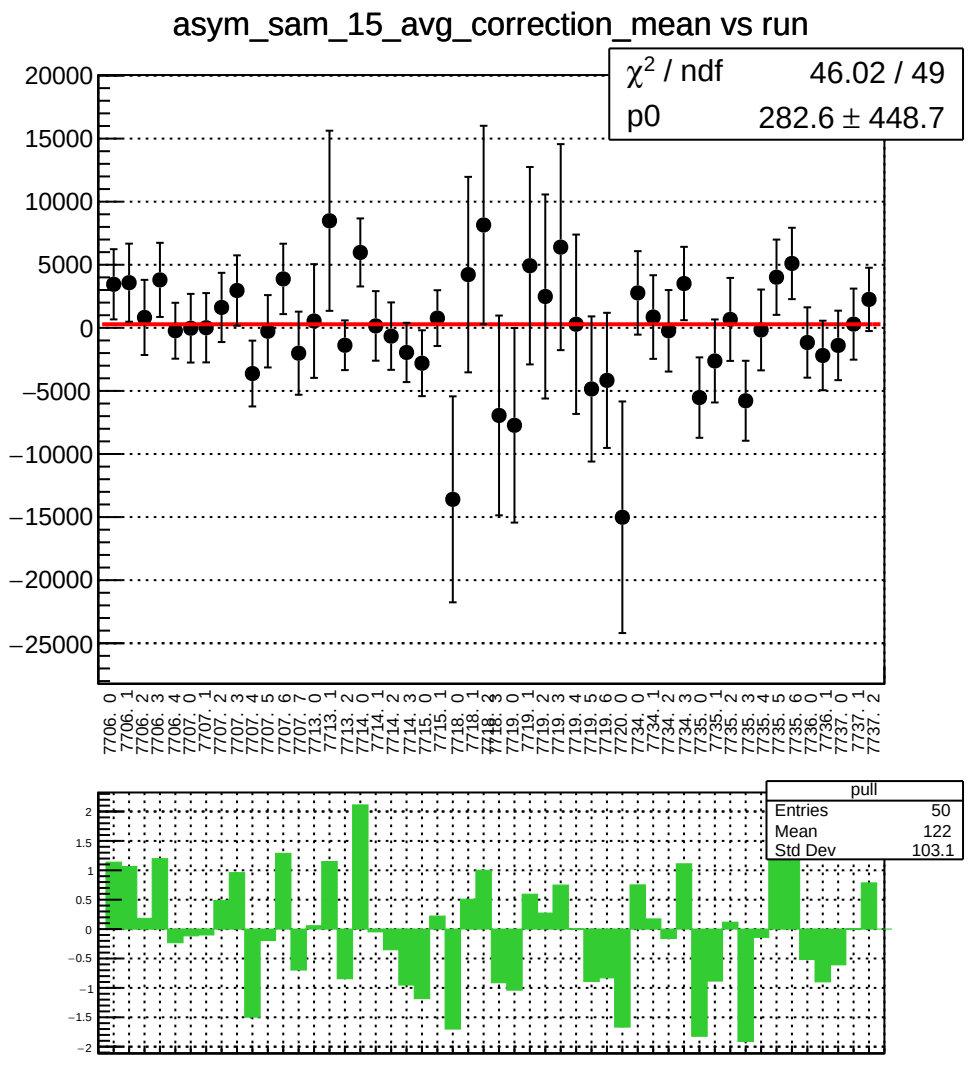

asym_sam8_correction_rms vs run
χ² / ndf 3.489e+04 / 49
p0 961.7 ± 1.006
1500
1400
1300
1200
1100
1000
900
800
700
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

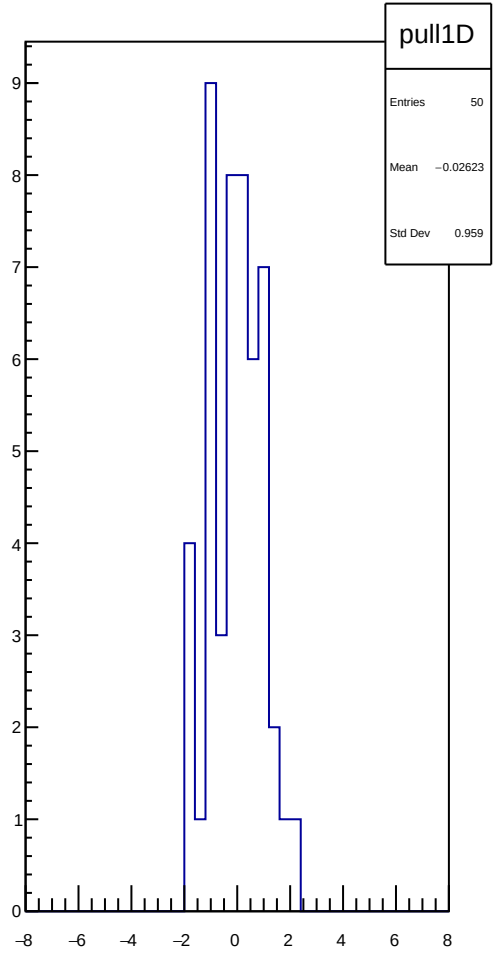

asym_sam8_mean vs run
χ² / ndf 31.22 / 49
p0 −85.69 ± 1297
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 221.1
Std Dev 198.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01486
Std Dev 0.79
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

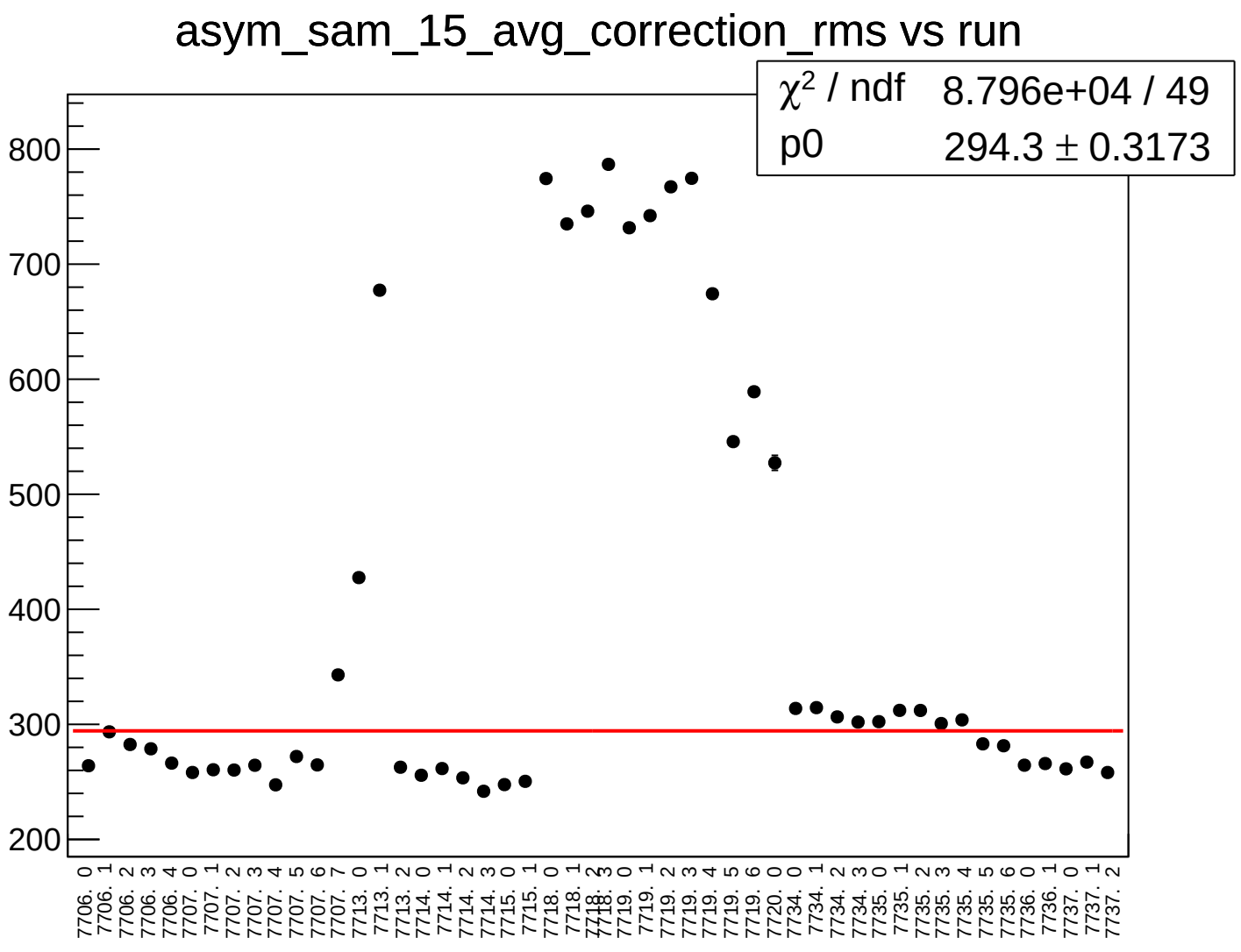

asym_sam8_rms vs run
χ² / ndf 3.304e+04 / 49
p0 877.3 ± 0.9168
1300
1200
1100
1000
900
800
700
17706. 0
17706. 1
17706. 2
17706. 3
17706. 4
17707. 0
17707. 1
17707. 2
17707. 3
17707. 4
17707. 5
17707. 6
17707. 7
17713. 0
17713. 1
17713. 2
17714. 0
17714. 1
17714. 2
17714. 3
17715. 0
17715. 1
17718. 0
17718. 1
17718. 2
17718. 3
17719. 0
17719. 1
17719. 2
17719. 3
17719. 4
17719. 5
17719. 6
17720. 0
17734. 0
17734. 1
17734. 2
17734. 3
17735. 0
17735. 1
17735. 2
17735. 3
17735. 4
17735. 5
17735. 6
17736. 0
17736. 1
17737. 0
17737. 1
17737. 2


dit_asym_sam_15_avg_mean vs run
χ^2 / ndf 43.8 / 49
p0 77.01 ± 114.5
3000
2000
1000
0
−1000
−2000
−3000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 146.9
Std Dev 98.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.008117
Std Dev 0.9359
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 1.518e+04 / 49
p0 78.23 ± 0.08096
120
110
100
90
80
70
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_avg_correction_mean vs run
χ² / ndf 46.02 / 49
p0 282.6 ± 448.7
pull
Entries 50
Mean 122
Std Dev 103.1


pull1D
Entries 50
Mean −0.02623
Std Dev 0.959


asym_sam_15_avg_correction_rms vs run
χ² / ndf 8.796e+04 / 49
p0 294.3 ± 0.3173
800
700
600
500
400
300
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
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7718. 1
7718. 2
7718. 3
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7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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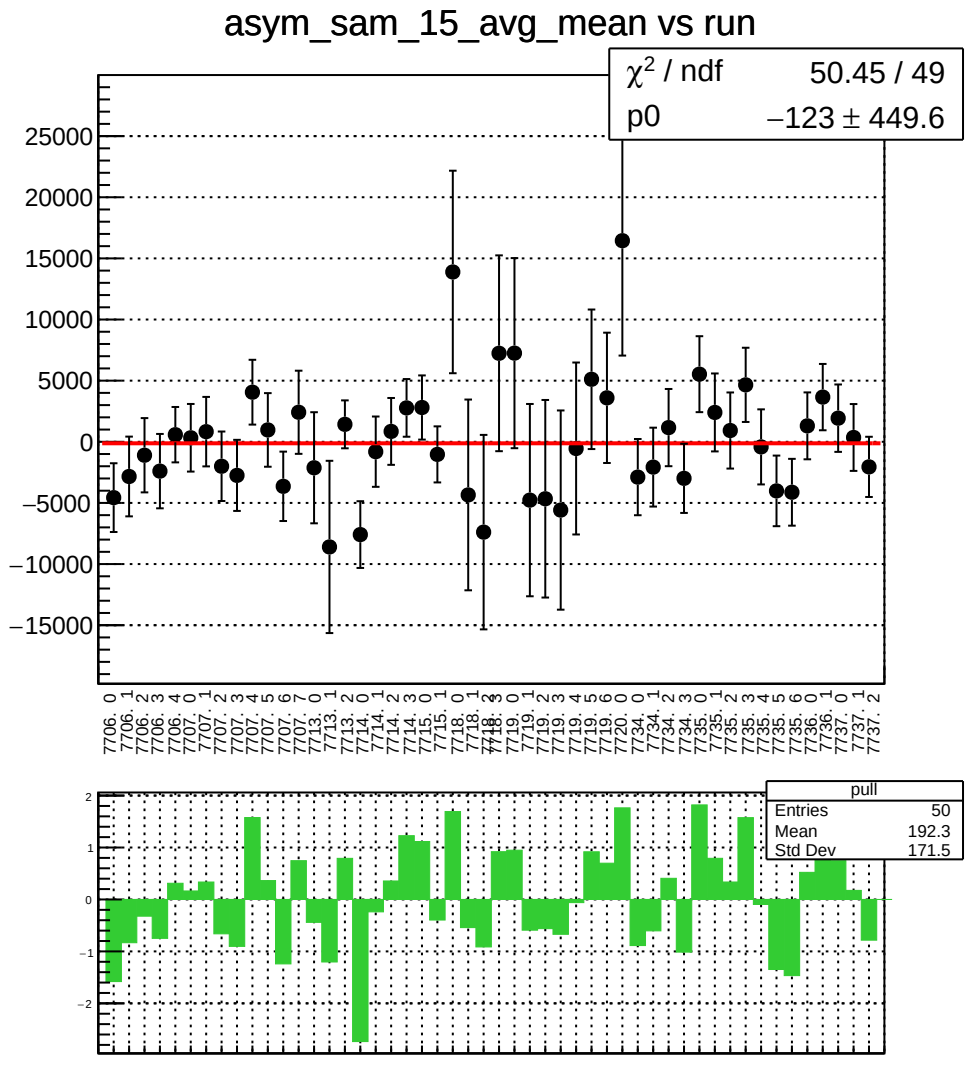
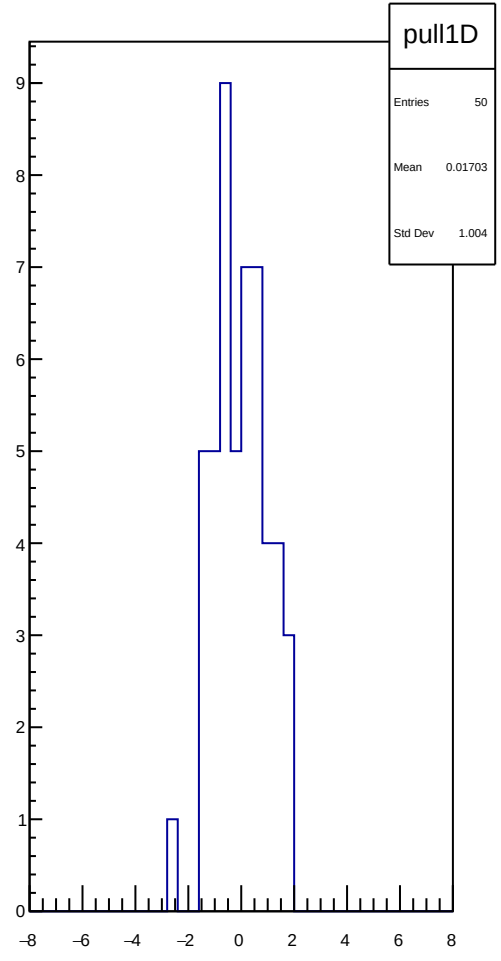
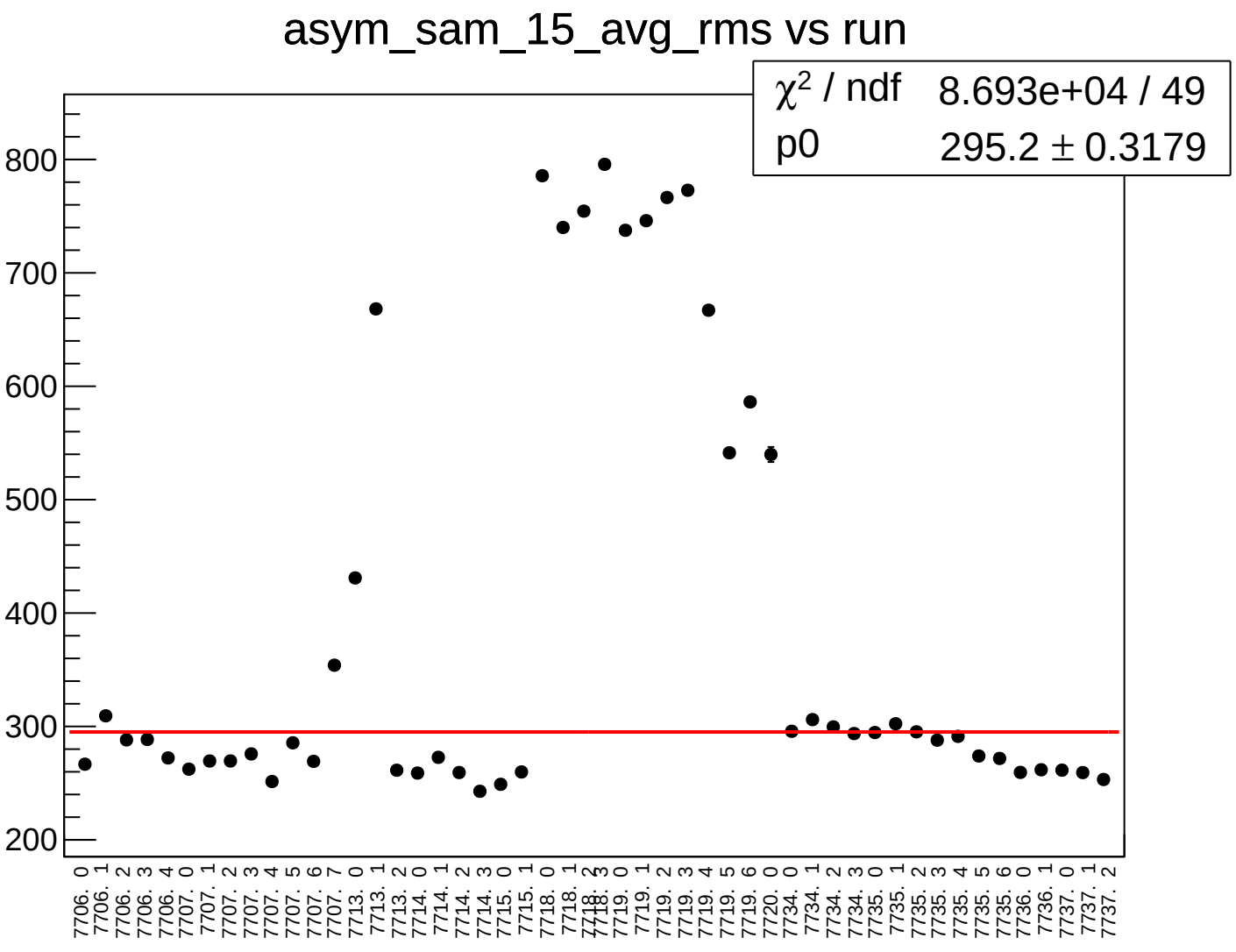
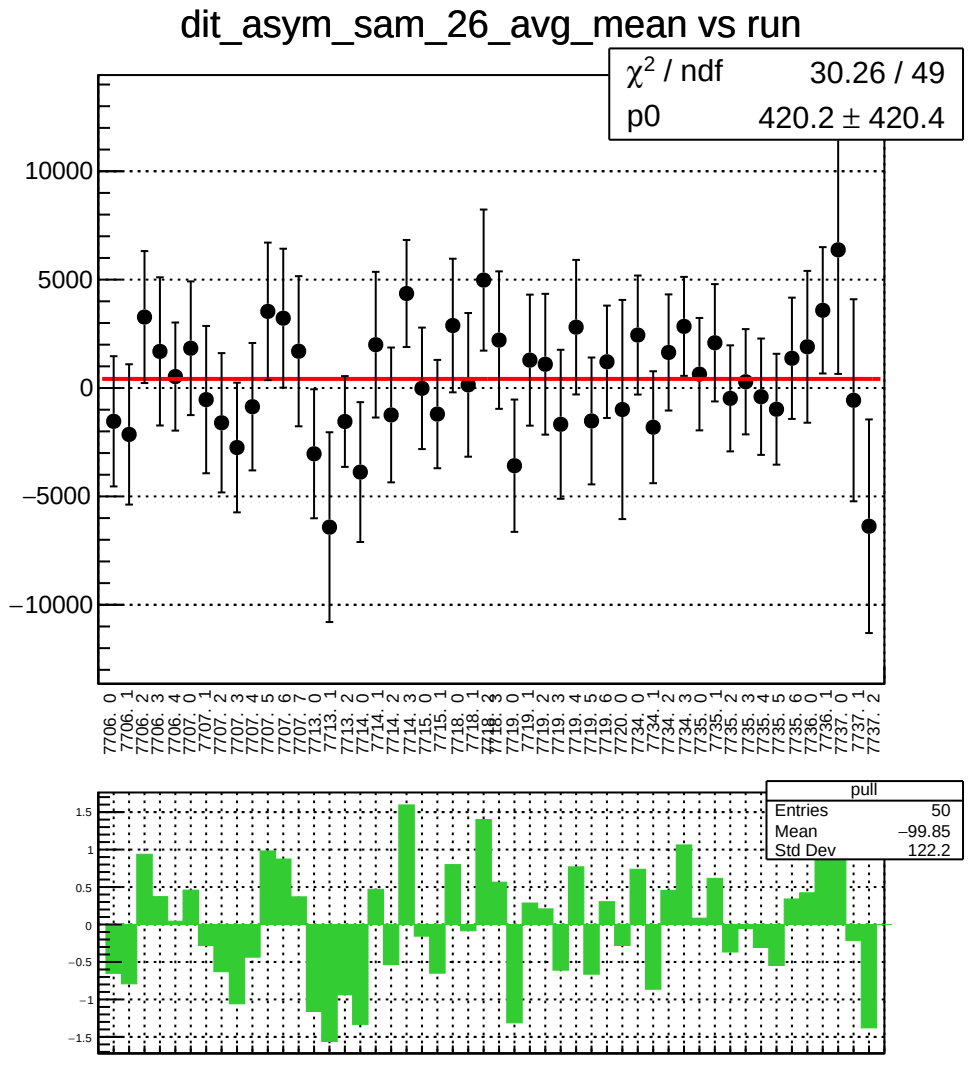
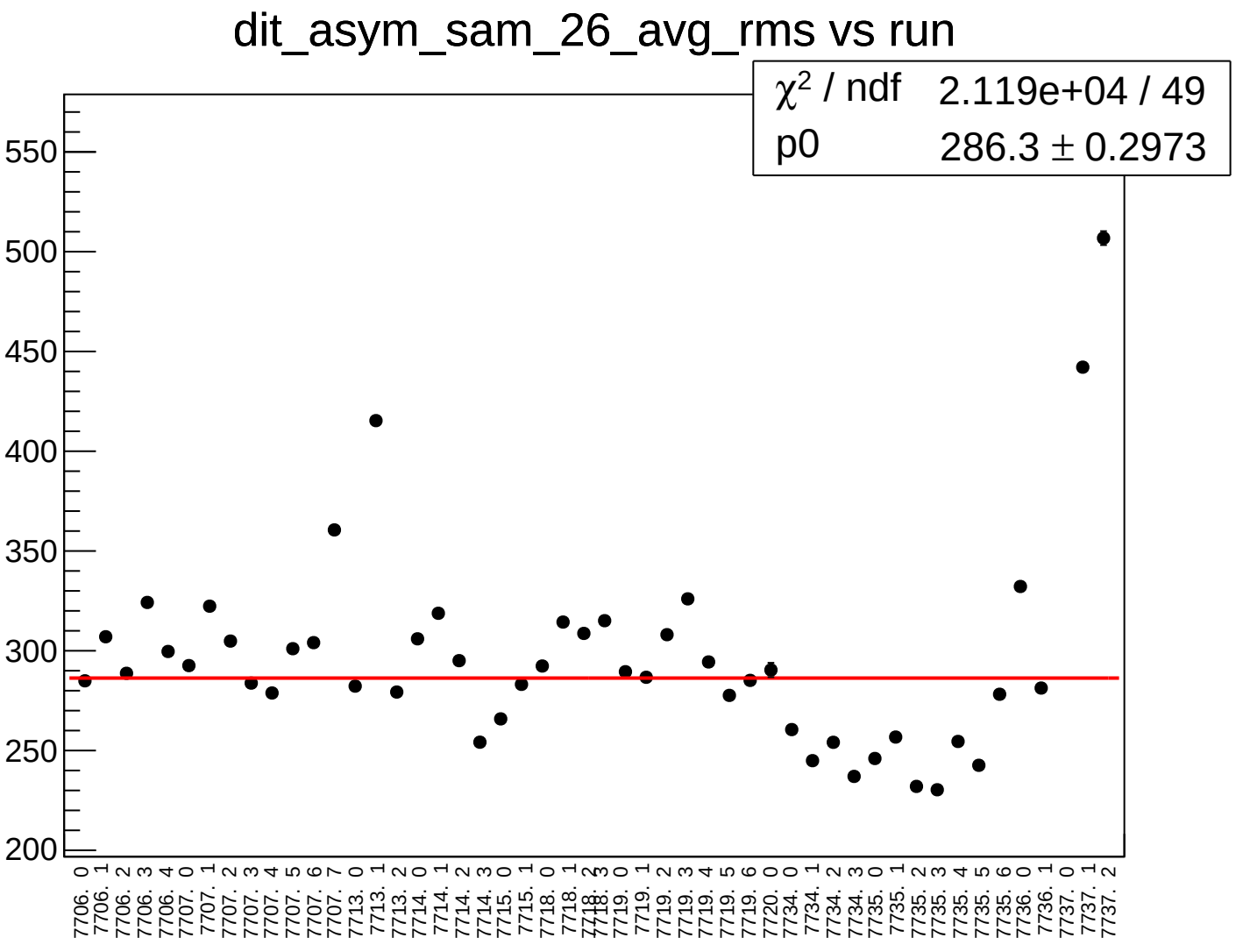
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

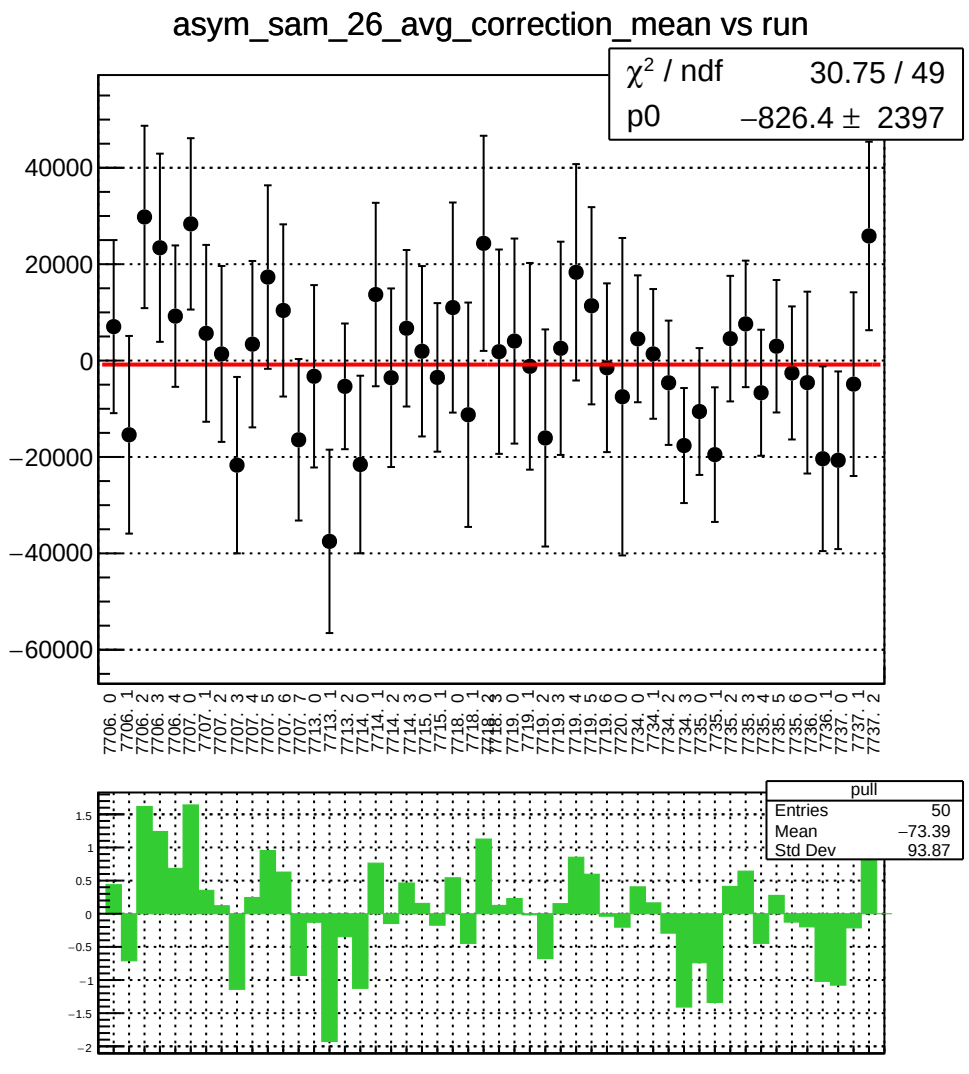

asym_sam_15_avg_mean vs run
χ² / ndf 50.45 / 49
p0 −123 ± 449.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 192.3
Std Dev 171.5
2
1
0
−1
−2

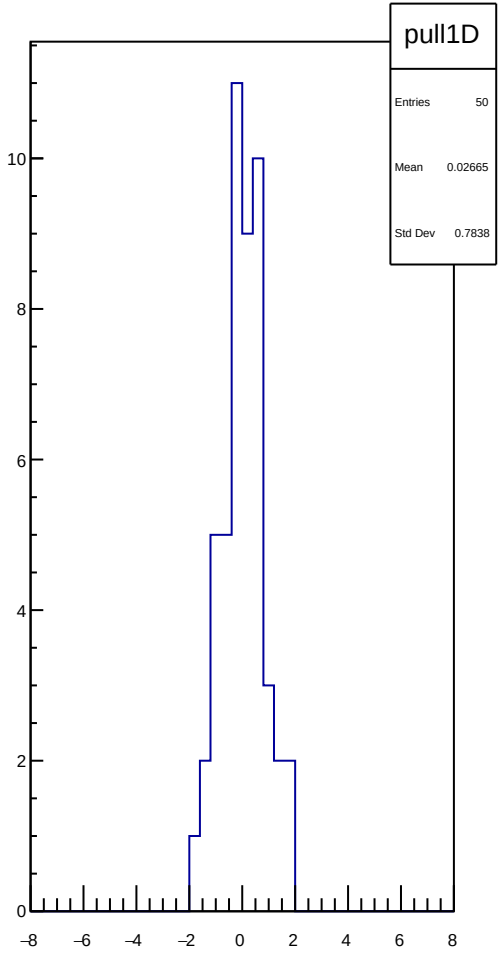

pull1D
Entries 50
Mean 0.01703
Std Dev 1.004
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

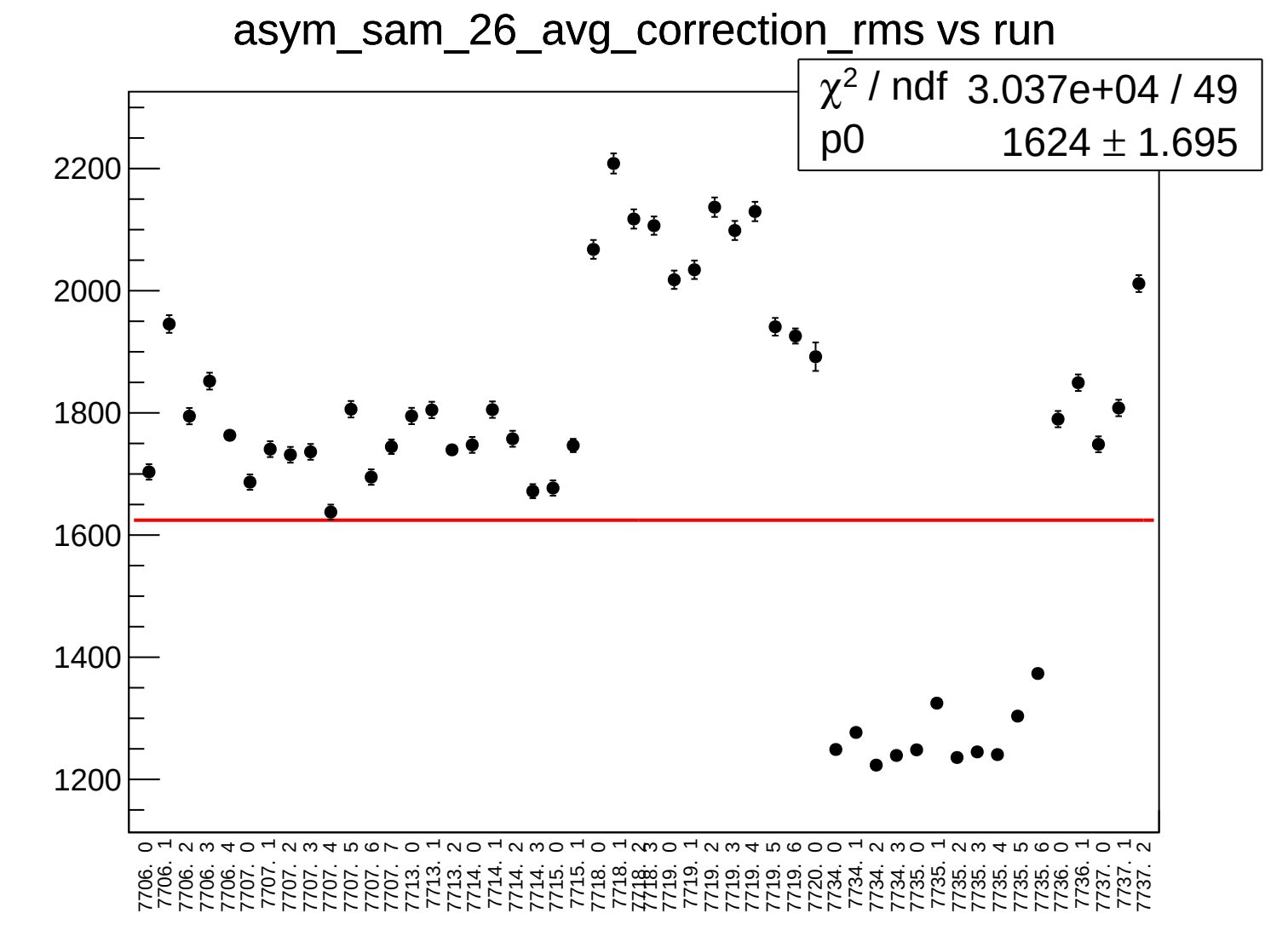

asym_sam_15_avg_rms vs run
χ² / ndf 8.693e+04 / 49
p0 295.2 ± 0.3179
800
700
600
500
400
300
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

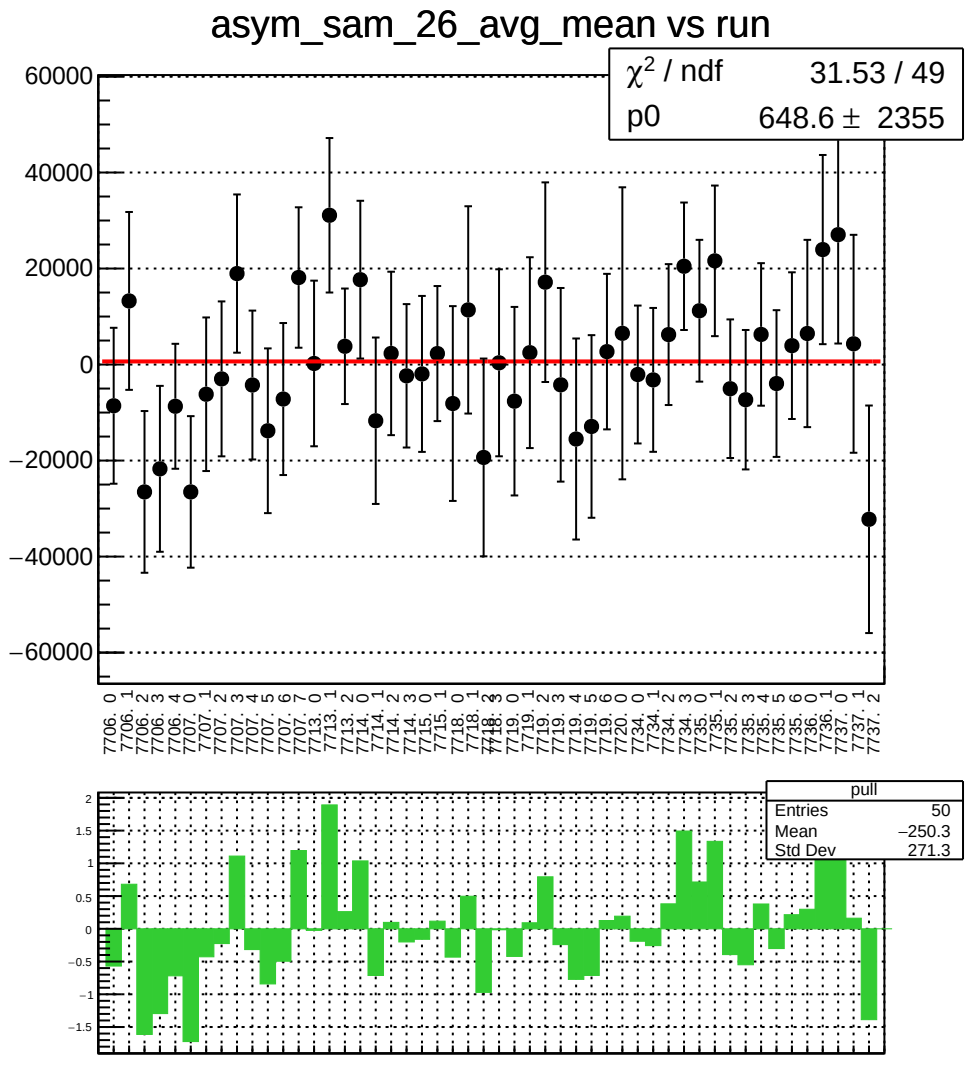

dit_asym_sam_26_avg_mean vs run
χ² / ndf 30.26 / 49
p0 420.2 ± 420.4
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −99.85
Std Dev 122.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01147
Std Dev 0.7778
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 2.119e+04 / 49
p0 286.3 ± 0.2973
550
500
450
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_26_avg_correction_mean vs run
χ² / ndf 30.75 / 49
p0 −826.4 ± 2397
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −73.39
Std Dev 93.87
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02665
Std Dev 0.7838
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_correction_rms vs run
χ² / ndf 3.037e+04 / 49
p0 1624 ± 1.695
2200
2000
1800
1600
1400
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_26_avg_mean vs run
χ² / ndf 31.53 / 49
p0 648.6 ± 2355
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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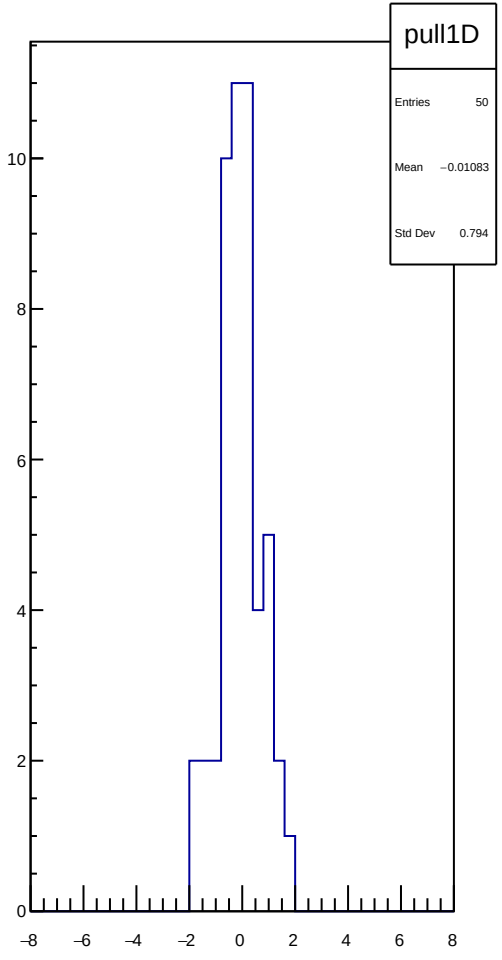
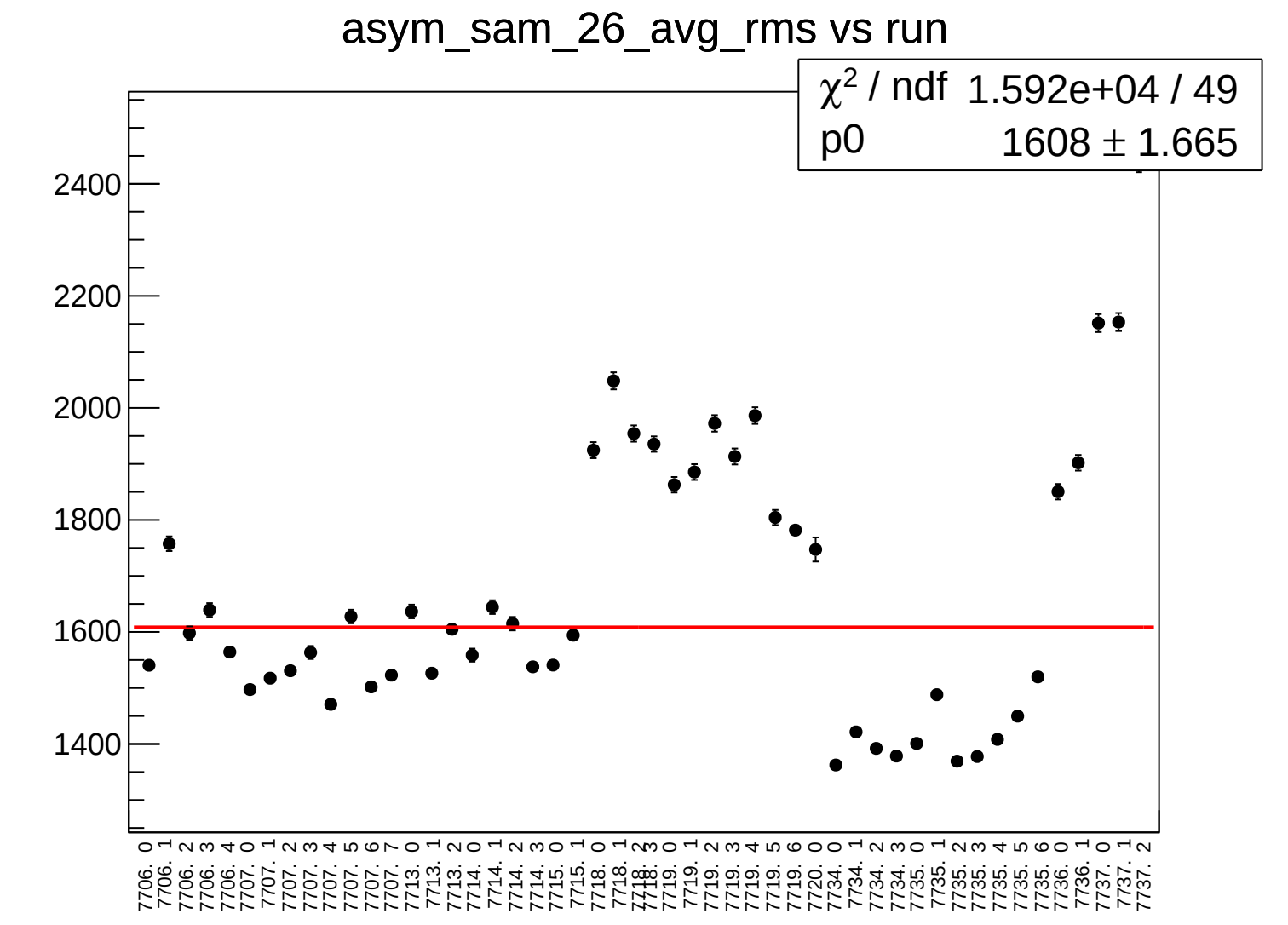
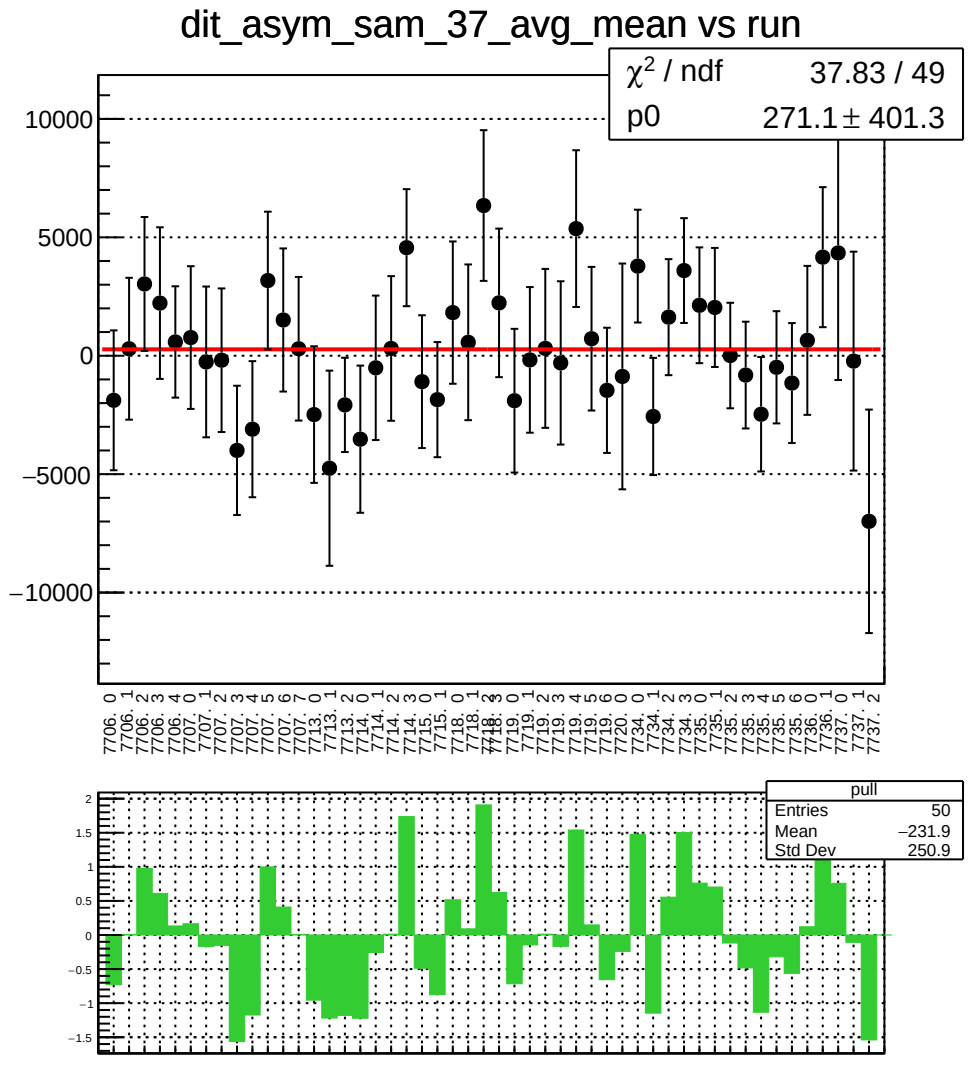
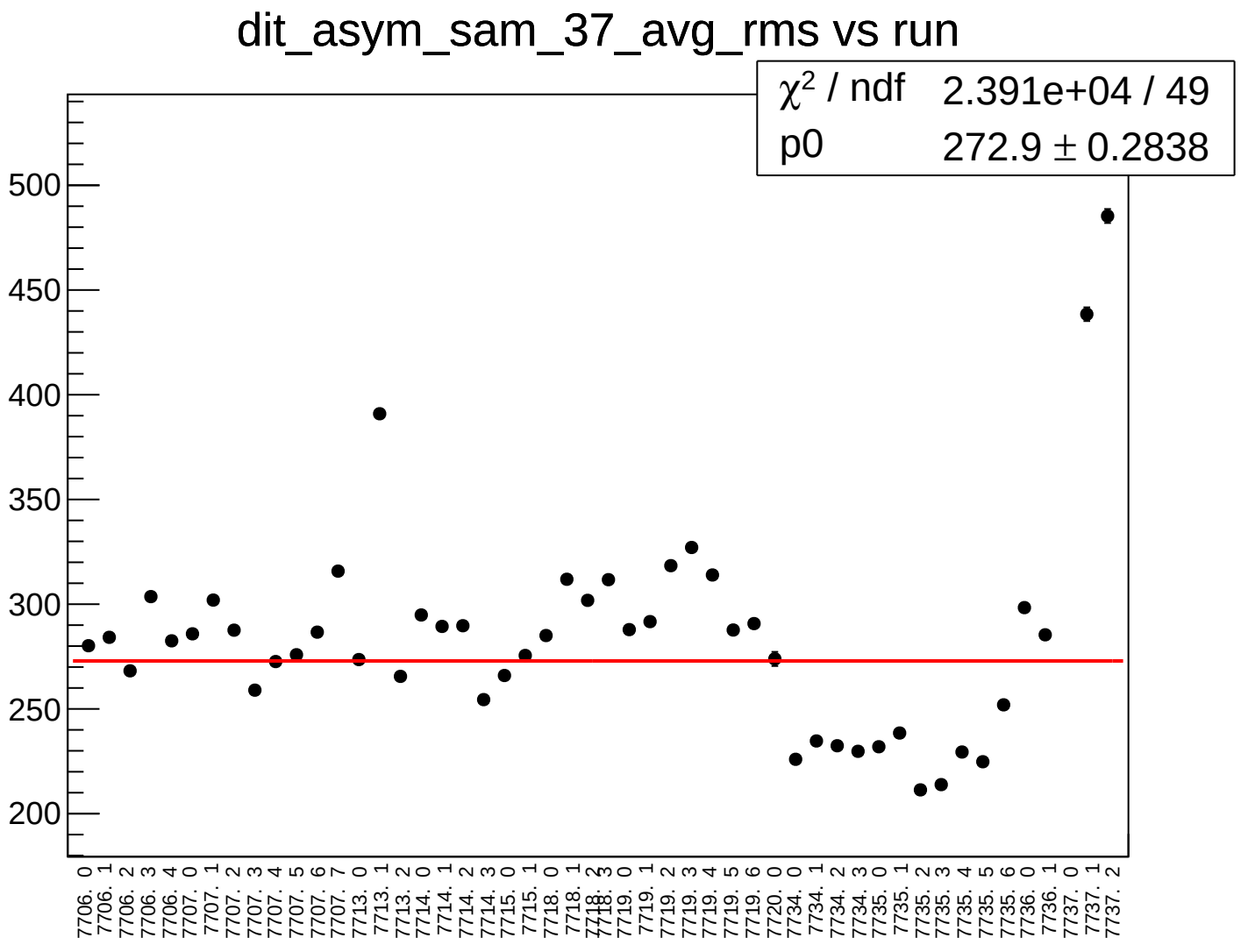
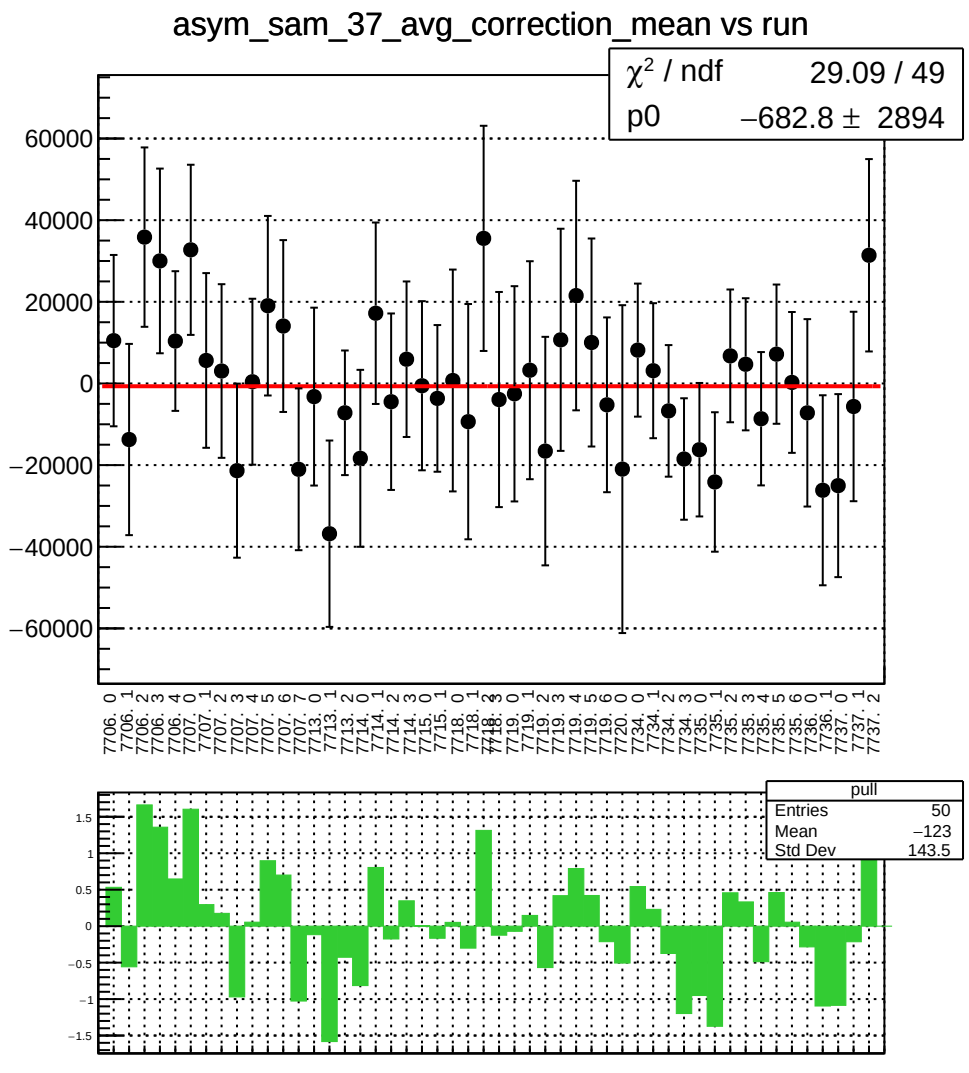
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −250.3
Std Dev 271.3
2
1.5
1
0.5
0
−0.5
−1
−1.5

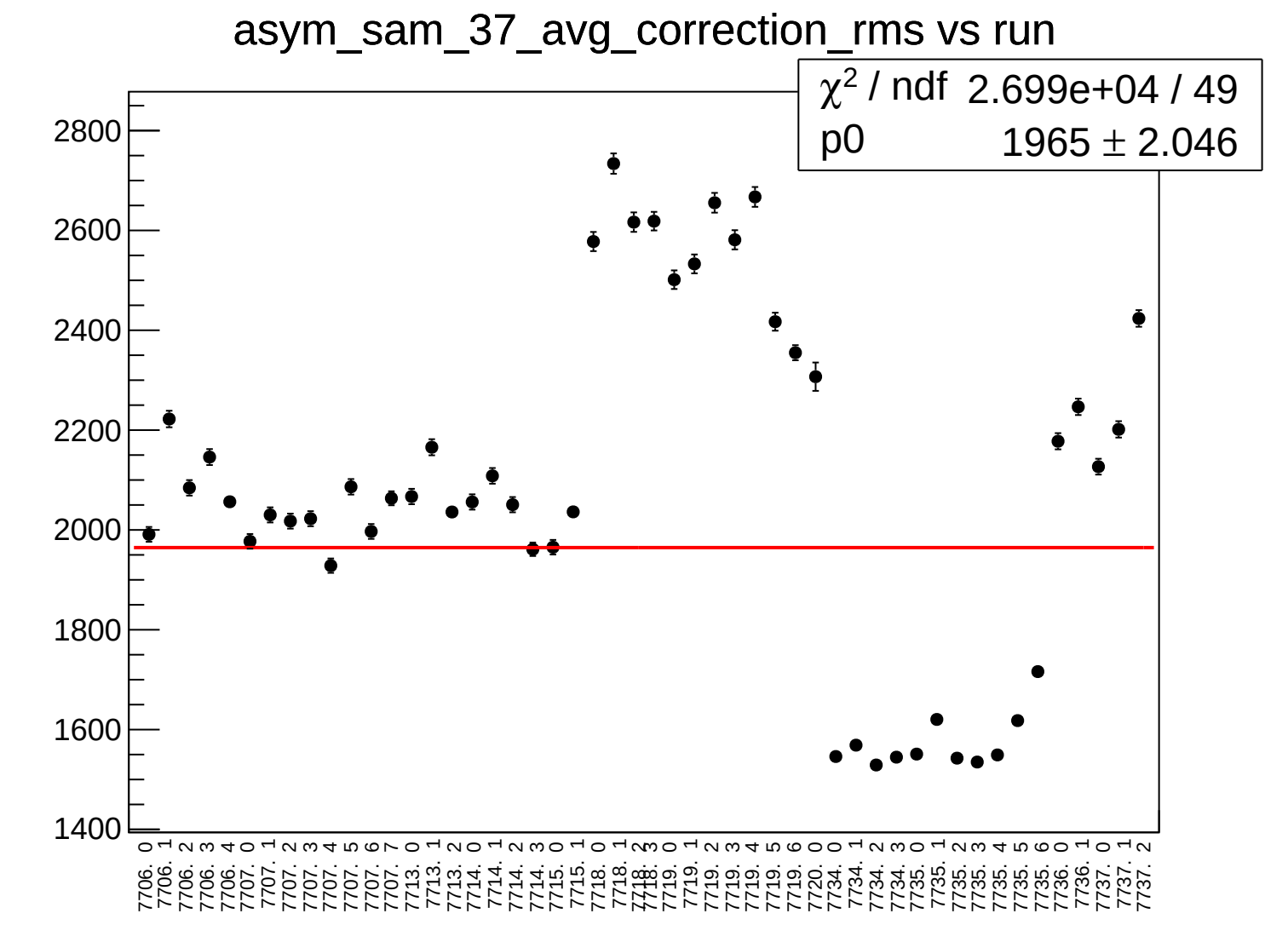

pull1D
Entries 50
Mean −0.01083
Std Dev 0.794
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

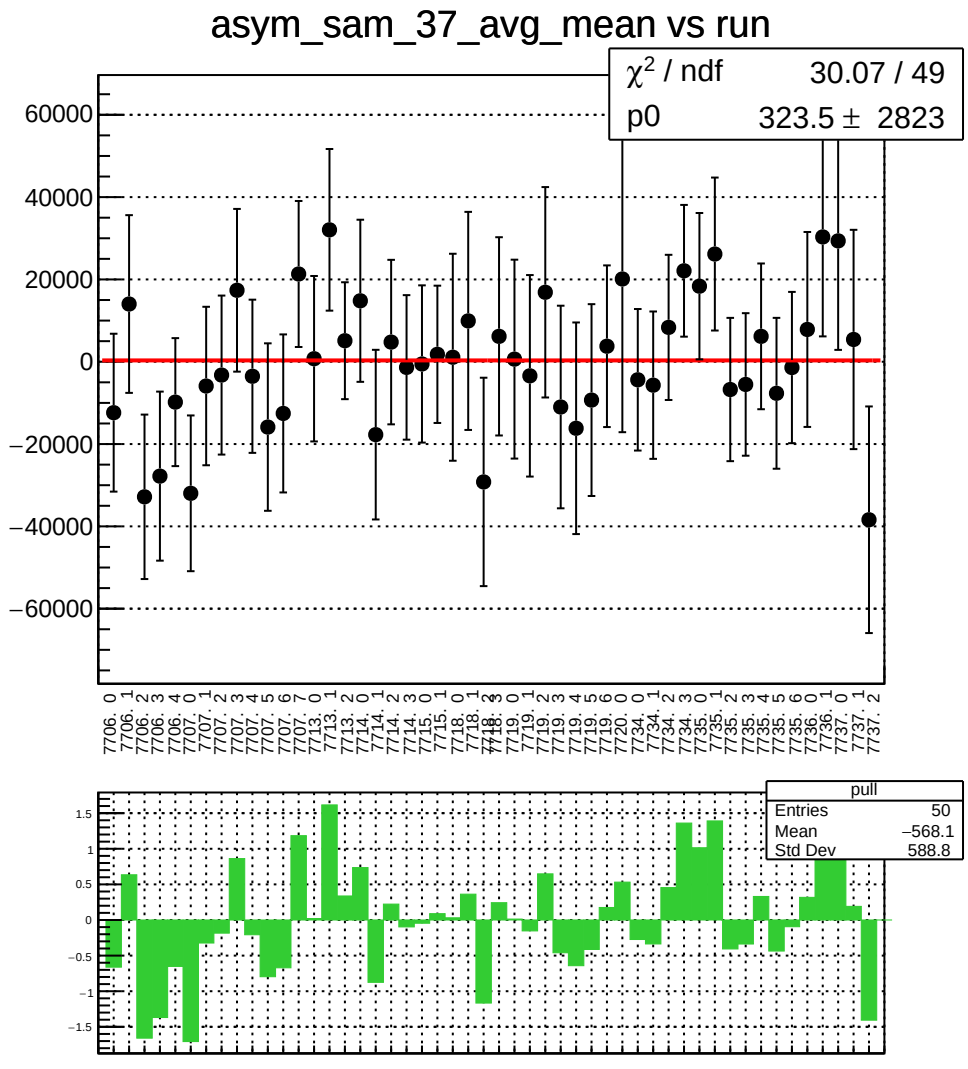

asym_sam_26_avg_rms vs run
χ² / ndf 1.592e+04 / 49
p0 1608 ± 1.665
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

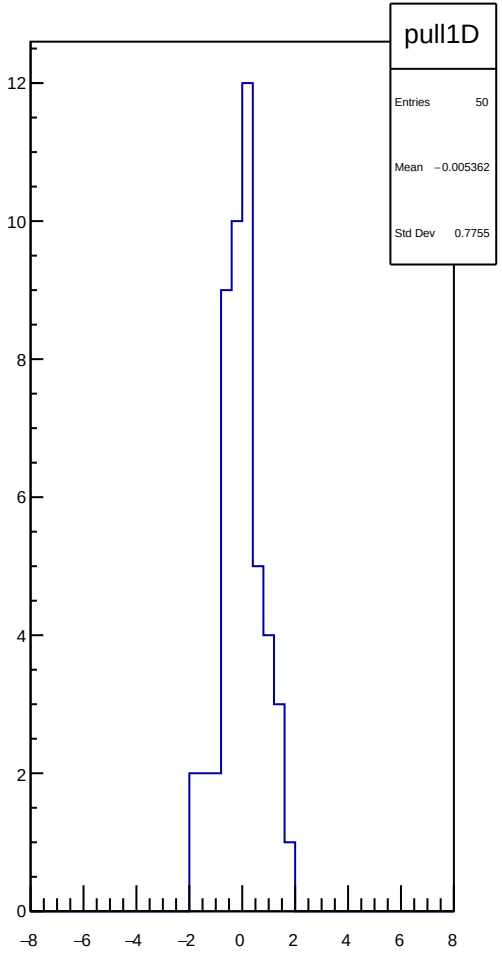

dit_asym_sam_37_avg_mean vs run
χ² / ndf 37.83 / 49
p0 271.1 ± 401.3
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −231.9
Std Dev 250.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.00437
Std Dev 0.8699
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

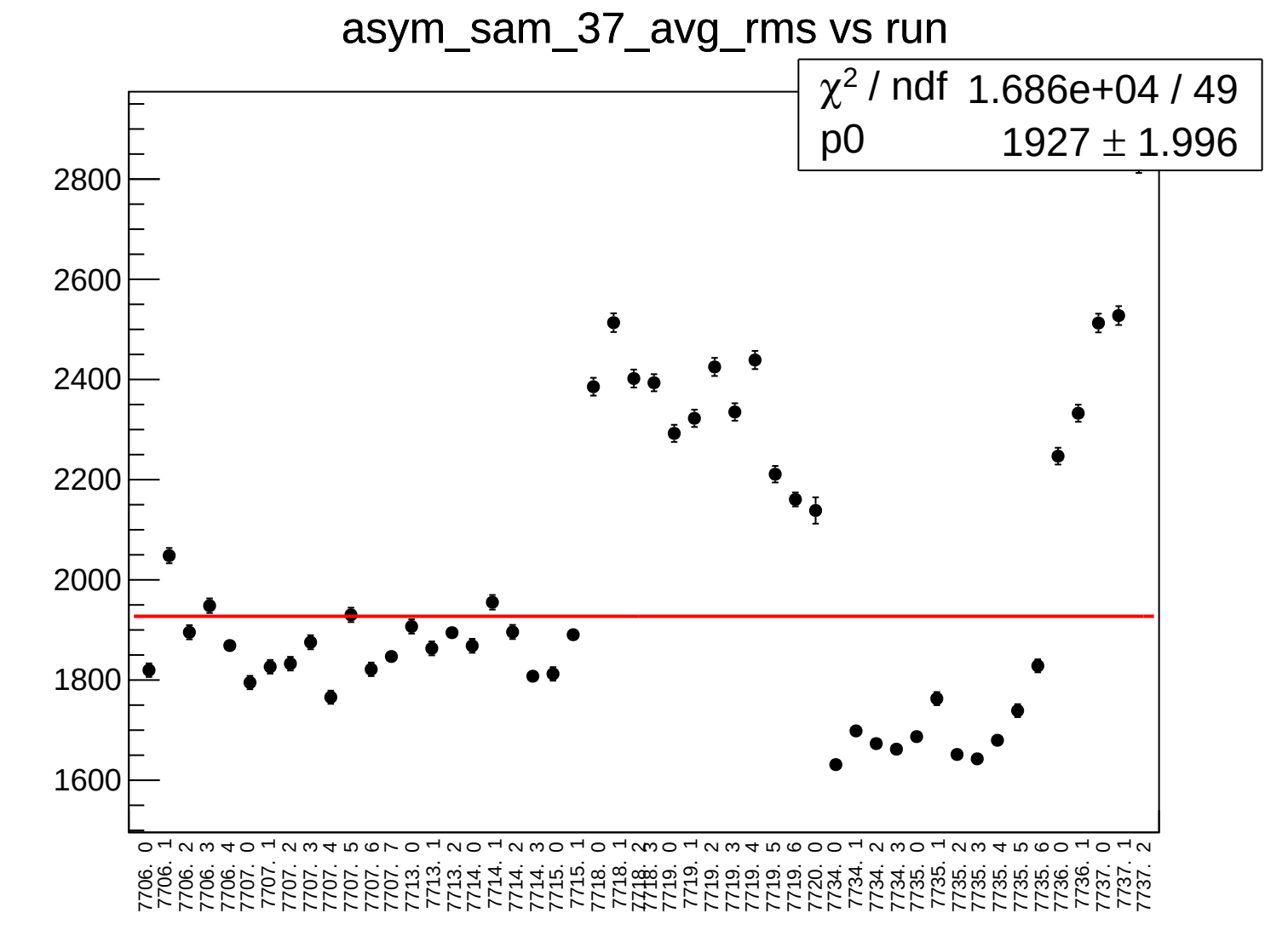

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.391e+04 / 49
p0 272.9 ± 0.2838
500
450
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

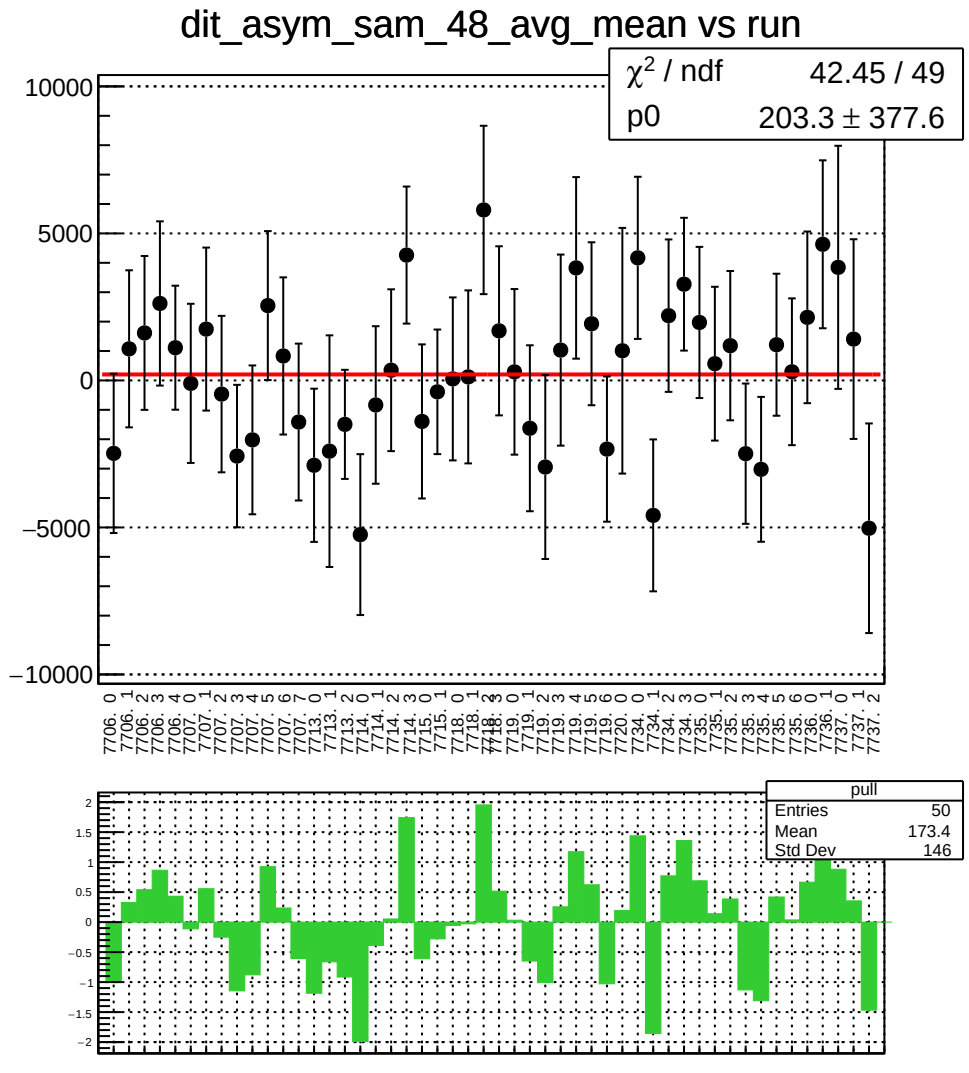

asym_sam_37_avg_correction_mean vs run
χ² / ndf 29.09 / 49
p0 −682.8 ± 2894
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −123
Std Dev 143.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01983
Std Dev 0.7625
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

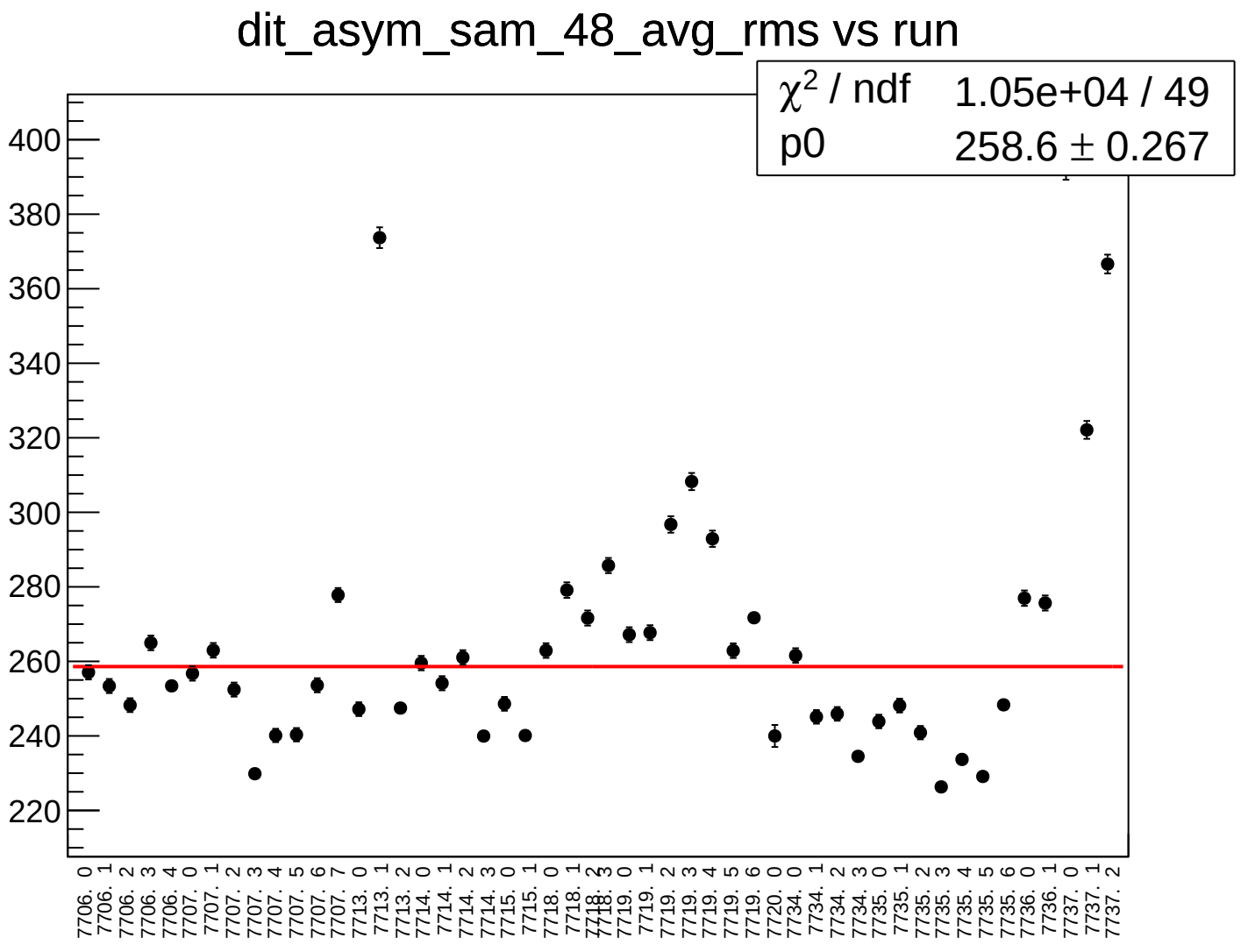

asym_sam_37_avg_correction_rms vs run
χ² / ndf 2.699e+04 / 49
p0 1965 ± 2.046
2800
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

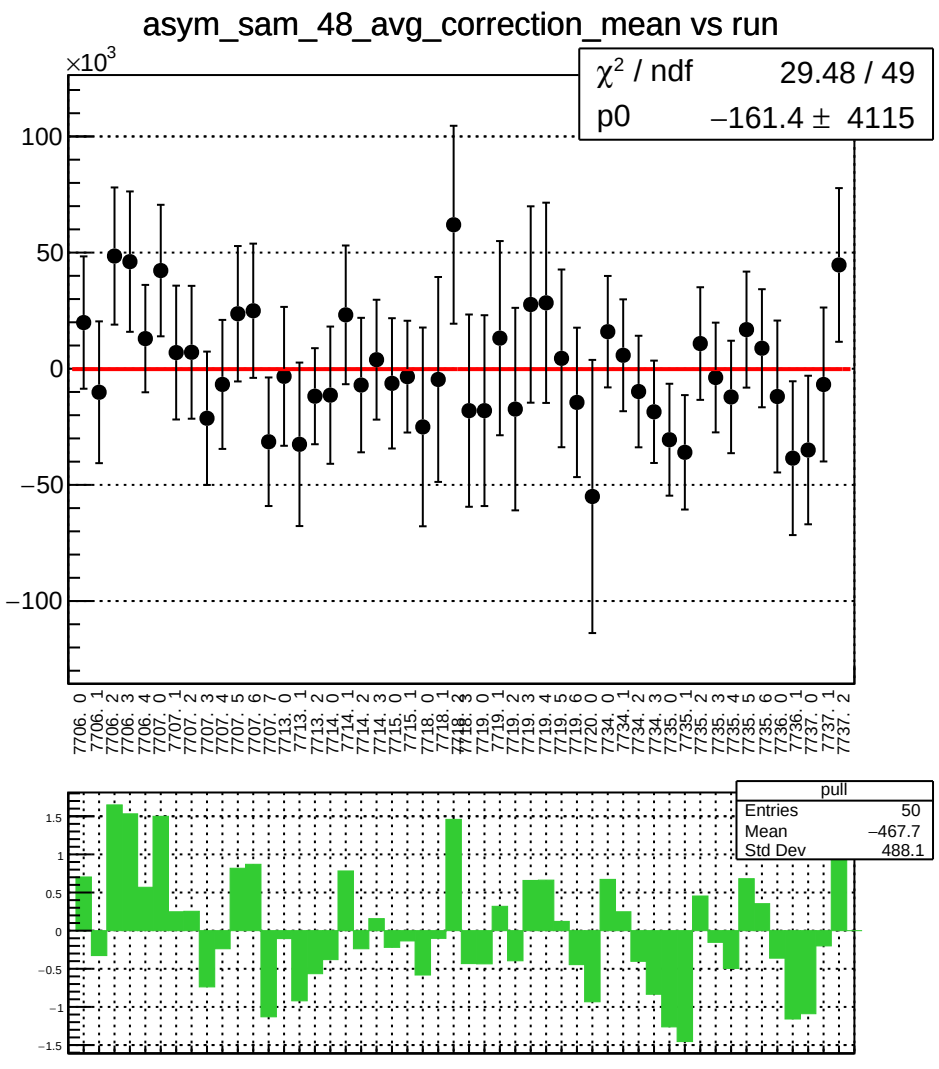

asym_sam_37_avg_mean vs run
χ² / ndf 30.07 / 49
p0 323.5 ± 2823
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −568.1
Std Dev 588.8
1.5
1
0.5
0
−0.5
−1
−1.5

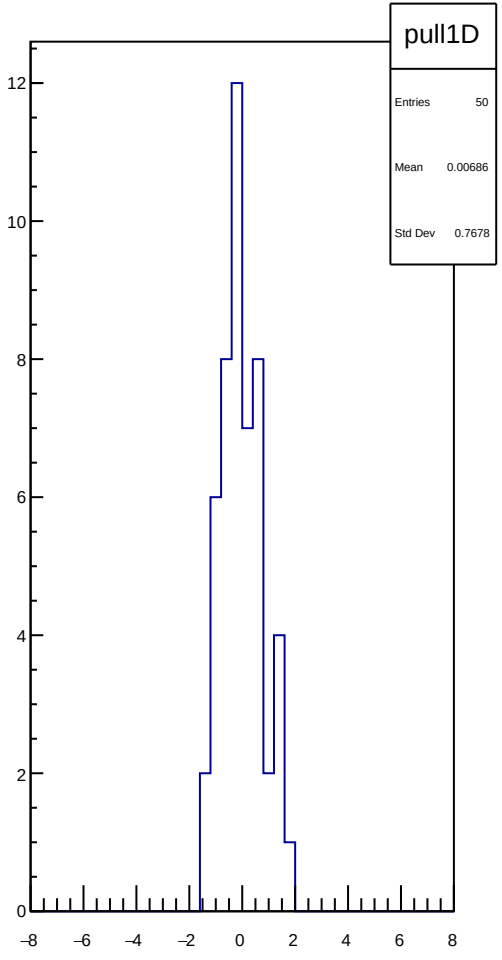

pull1D
Entries 50
Mean −0.005362
Std Dev 0.7755
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

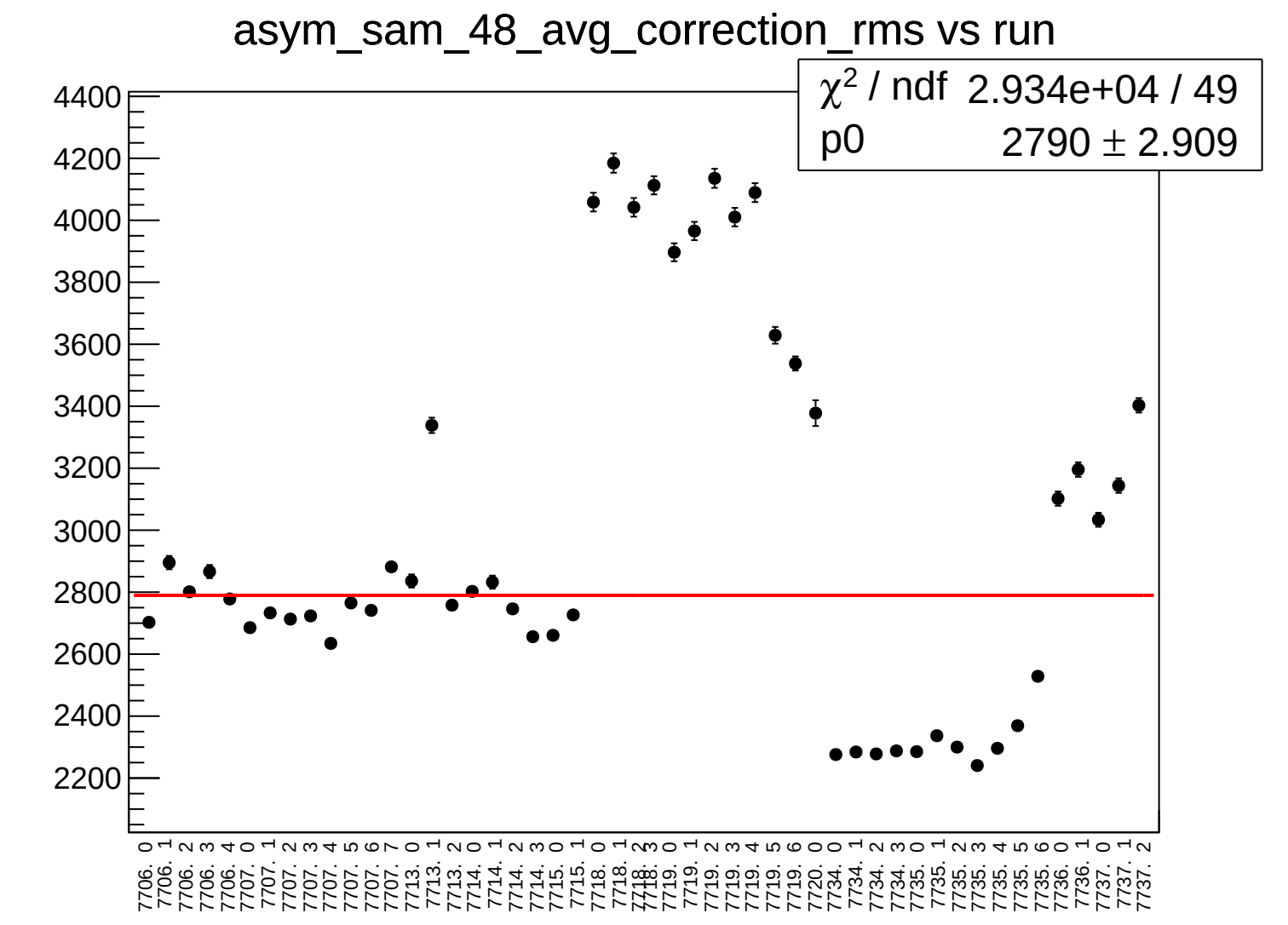

asym_sam_37_avg_rms vs run
χ² / ndf 1.686e+04 / 49
p0 1927 ± 1.996
2800
2600
2400
2200
2000
1800
1600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

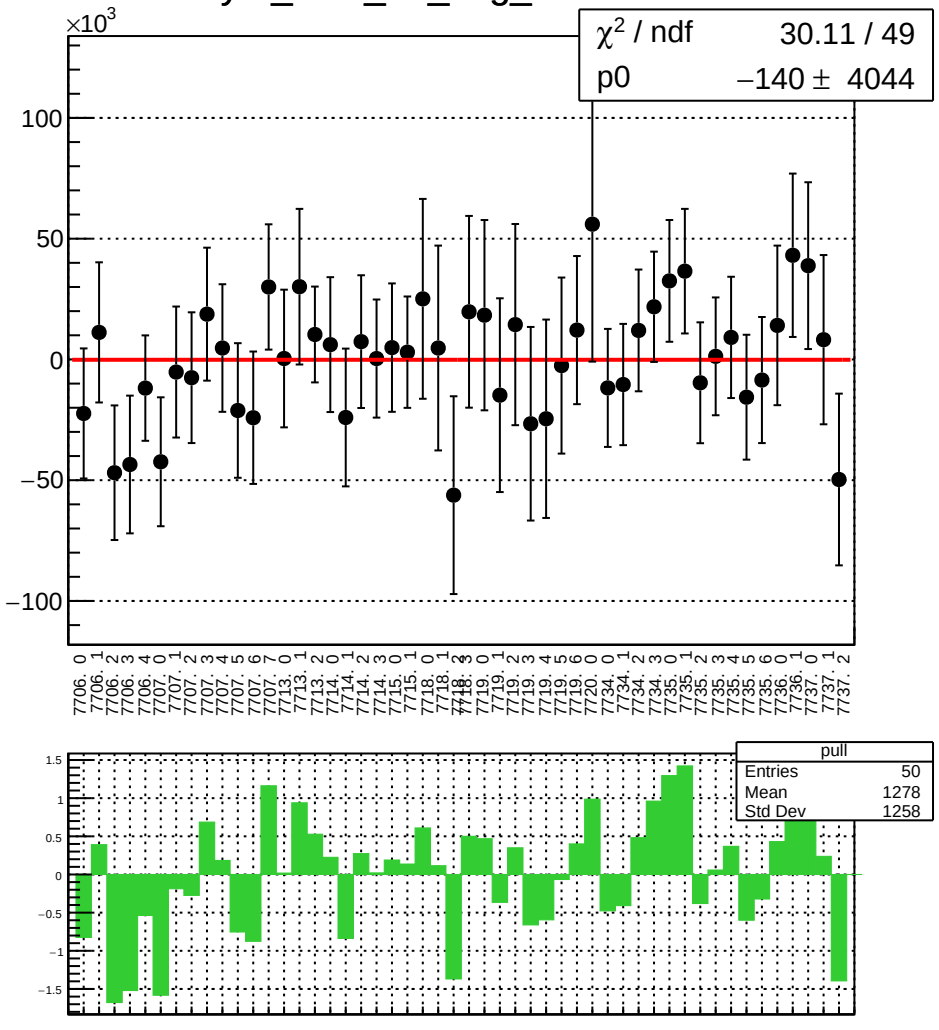

dit_asym_sam_48_avg_mean vs run
χ² / ndf 42.45 / 49
p0 203.3 ± 377.6
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 173.4
Std Dev 146
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.0112
Std Dev 0.9214
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

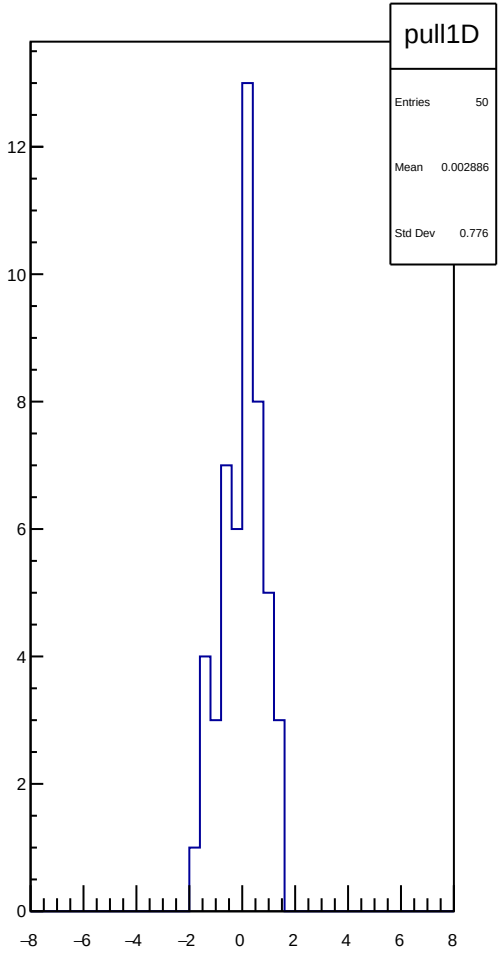

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.05e+04 / 49
p0 258.6 ± 0.267
400
380
360
340
320
300
280
260
240
220
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

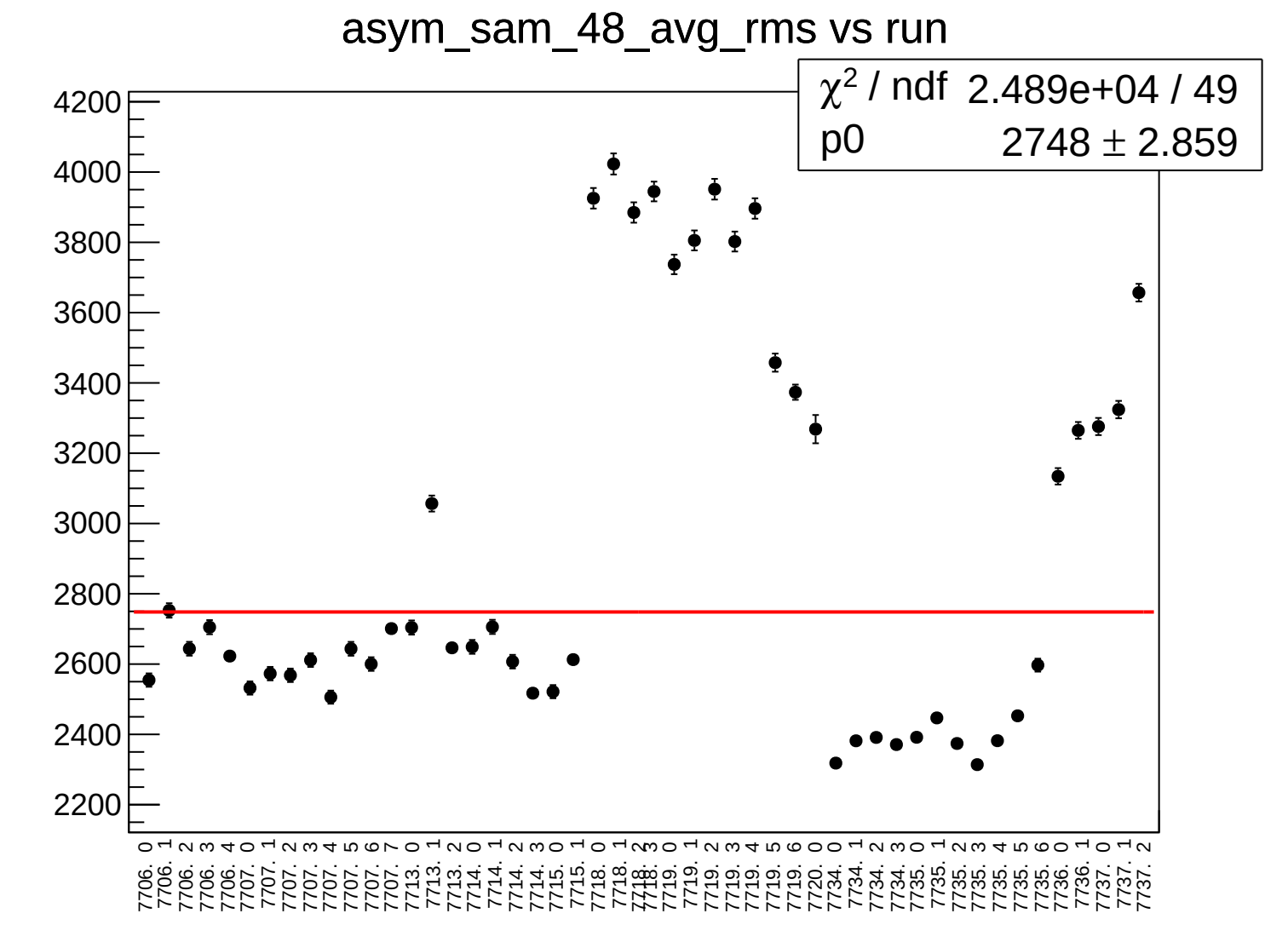

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 29.48 / 49
p0 −161.4 ± 4115
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −467.7
Std Dev 488.1
1.5
1
0.5
0
−0.5
−1
−1.5

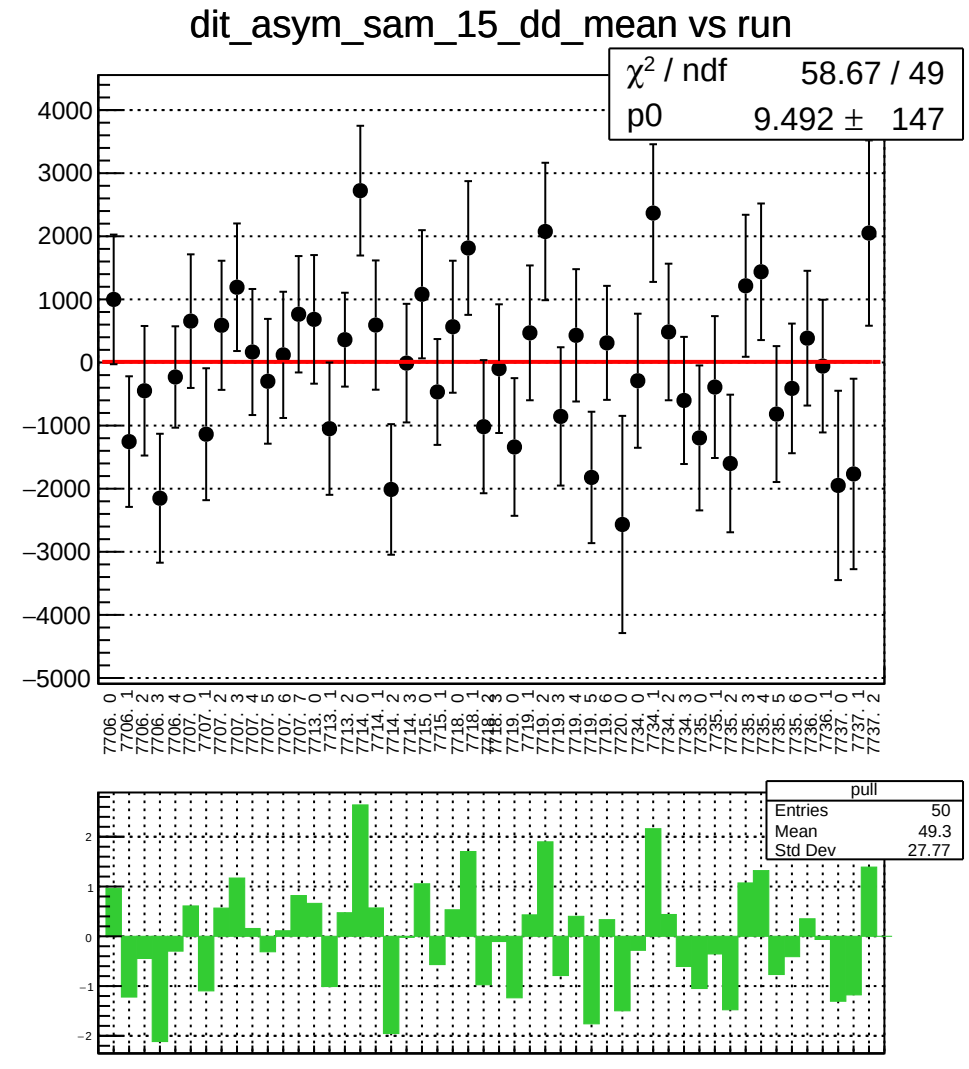

pull1D
Entries 50
Mean 0.00686
Std Dev 0.7678
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

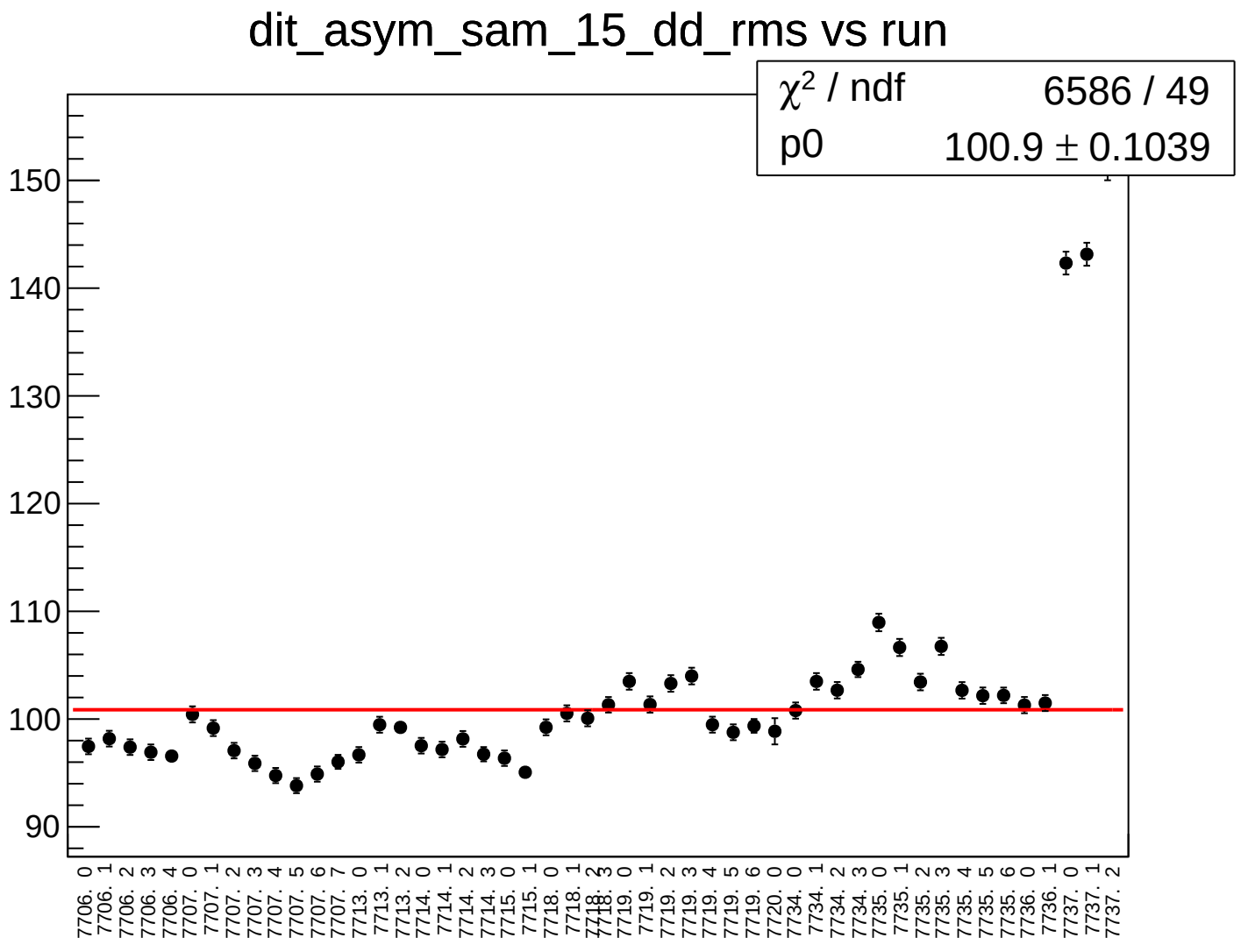

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.934e+04 / 49
p0 2790 ± 2.909
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

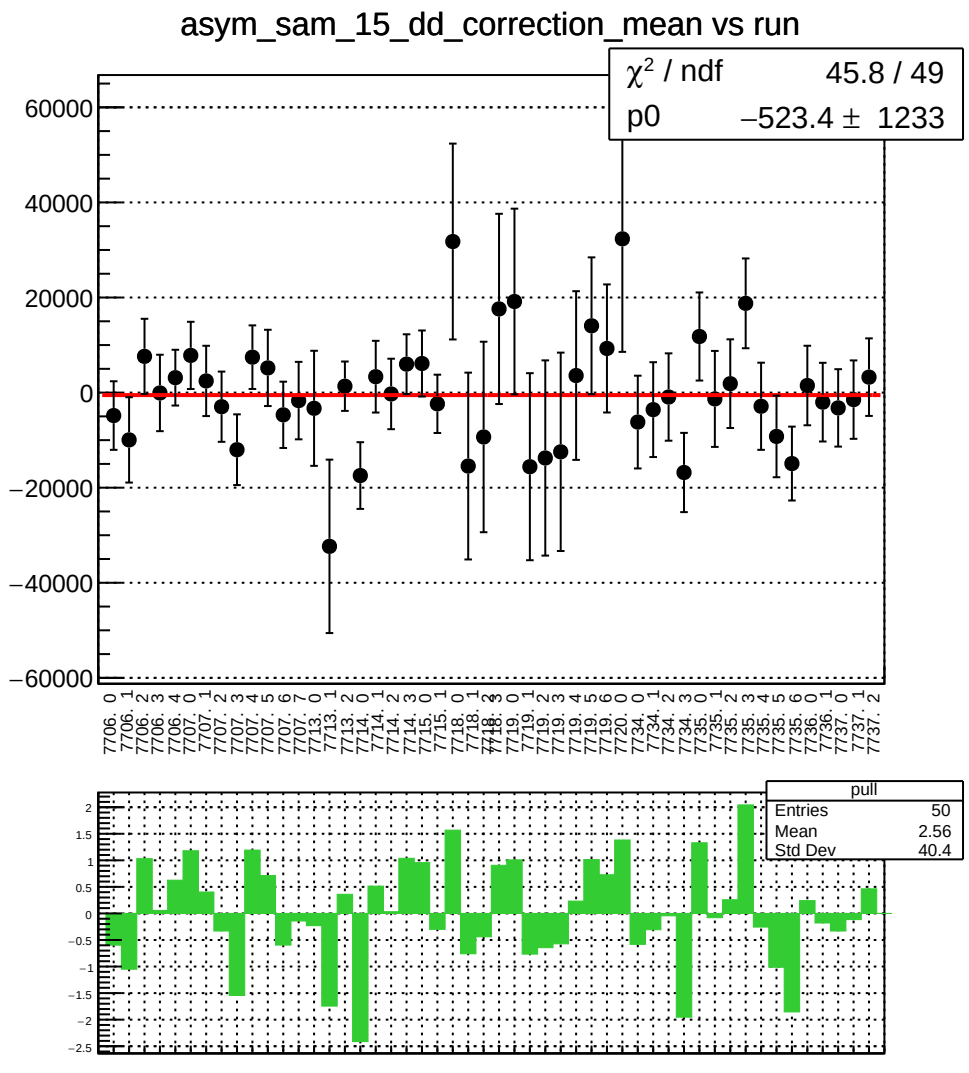

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 30.11 / 49
p0 −140 ± 4044
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 1278
Std Dev 1258
1.5
1
0.5
0
−0.5
−1
−1.5

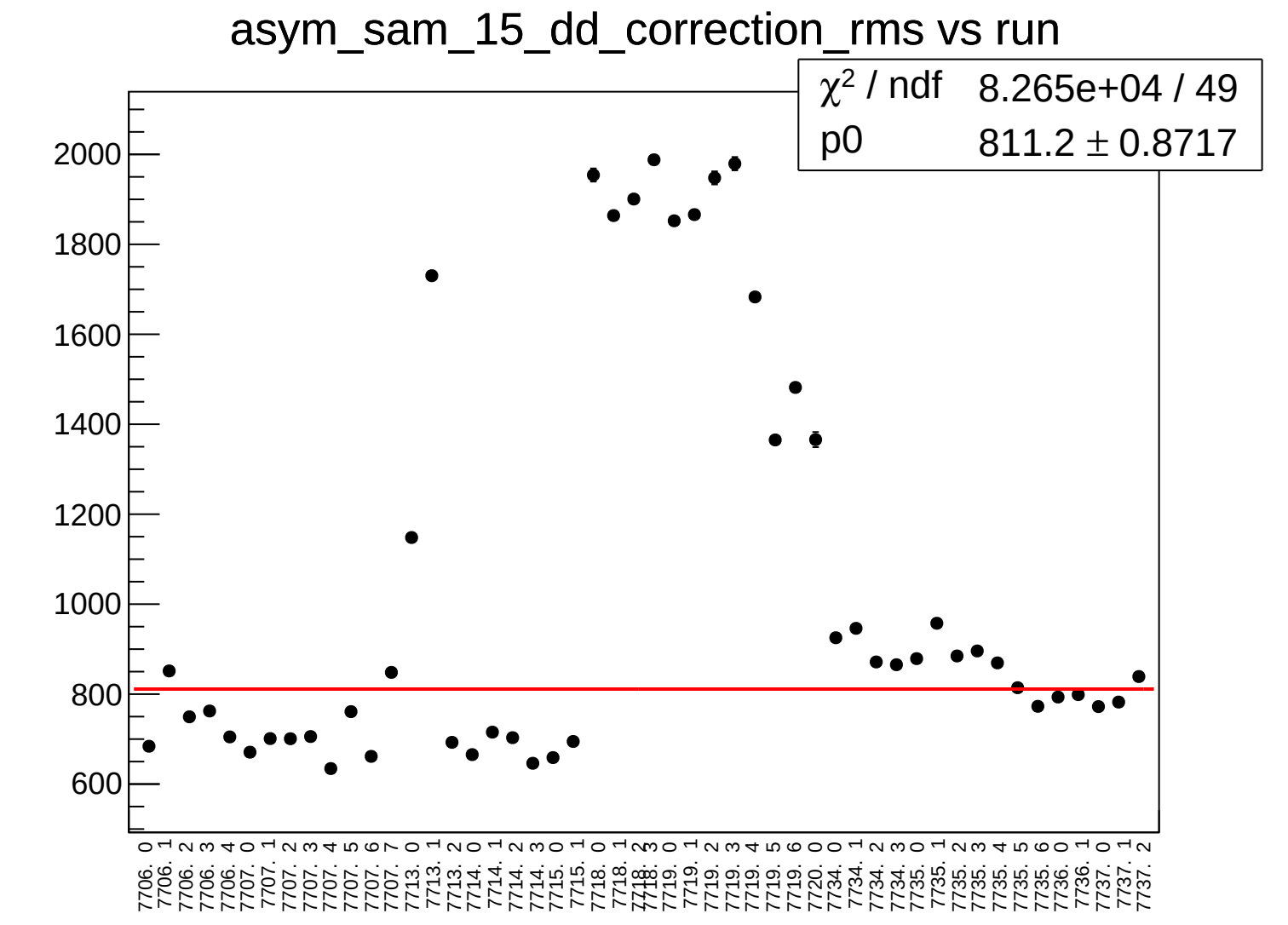

pull1D
Entries 50
Mean 0.002886
Std Dev 0.776
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

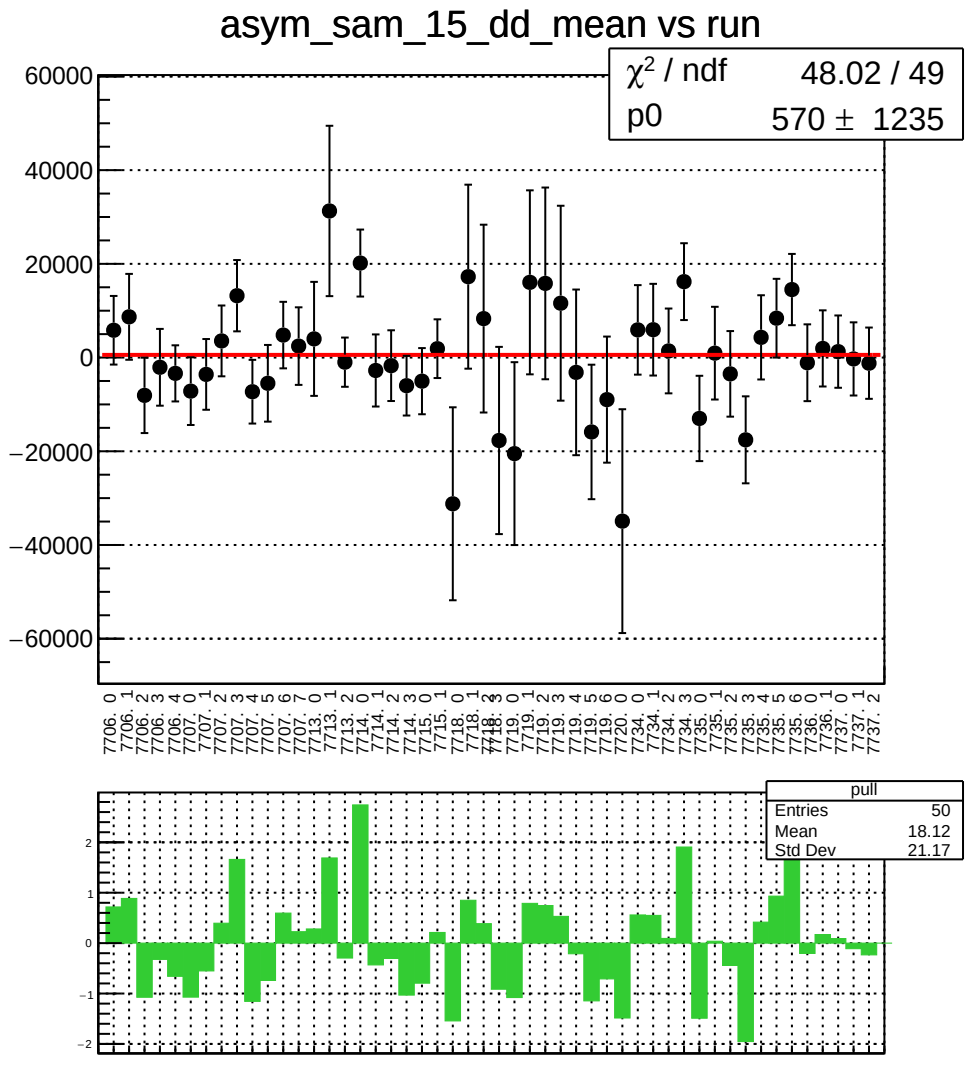

asym_sam_48_avg_rms vs run
χ² / ndf 2.489e+04 / 49
p0 2748 ± 2.859
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

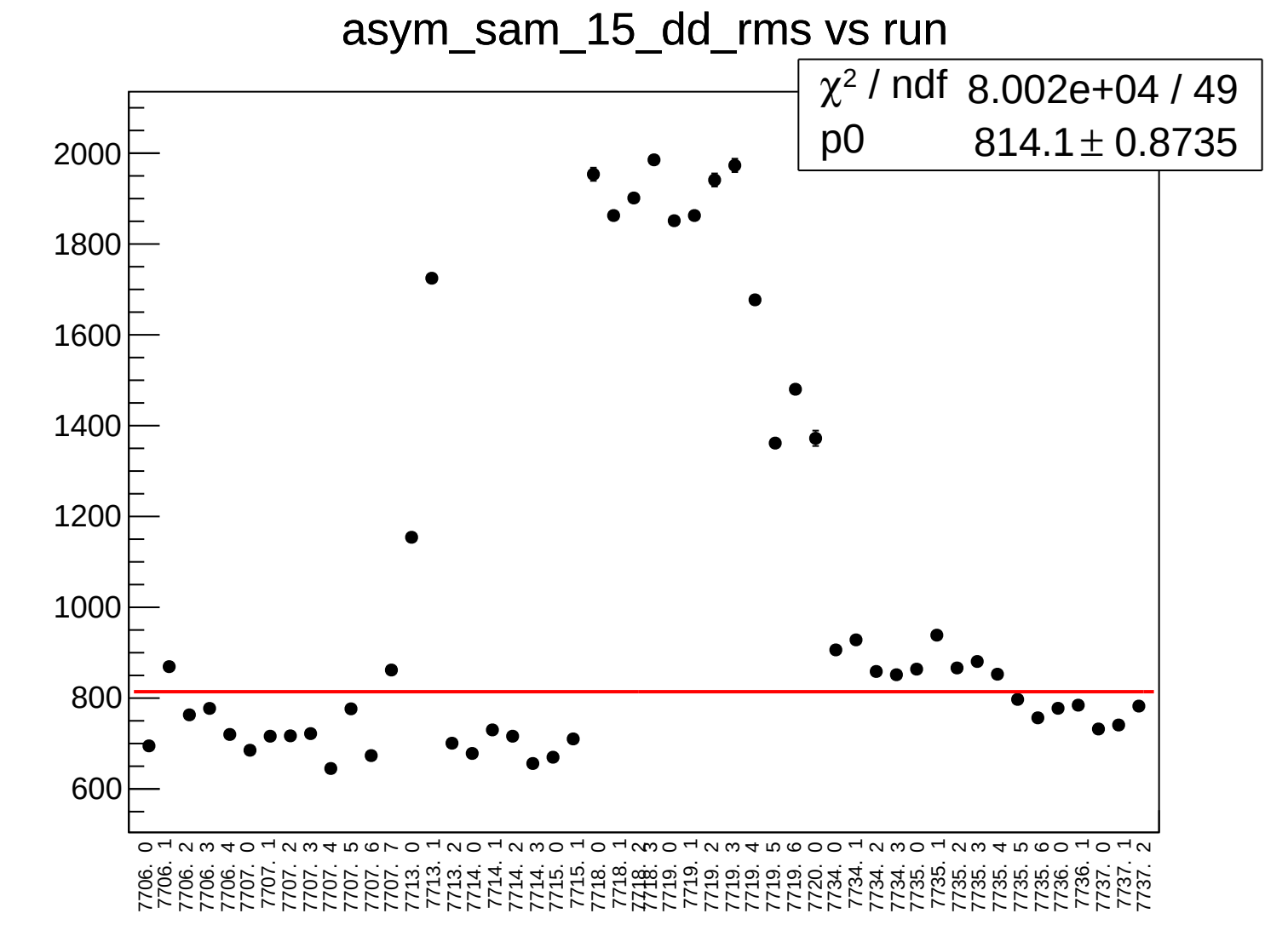

dit_asym_sam_15_dd_mean vs run
χ² / ndf 58.67 / 49
p0 9.492 ± 147
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 49.3
Std Dev 27.77
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.02121
Std Dev 1.083
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

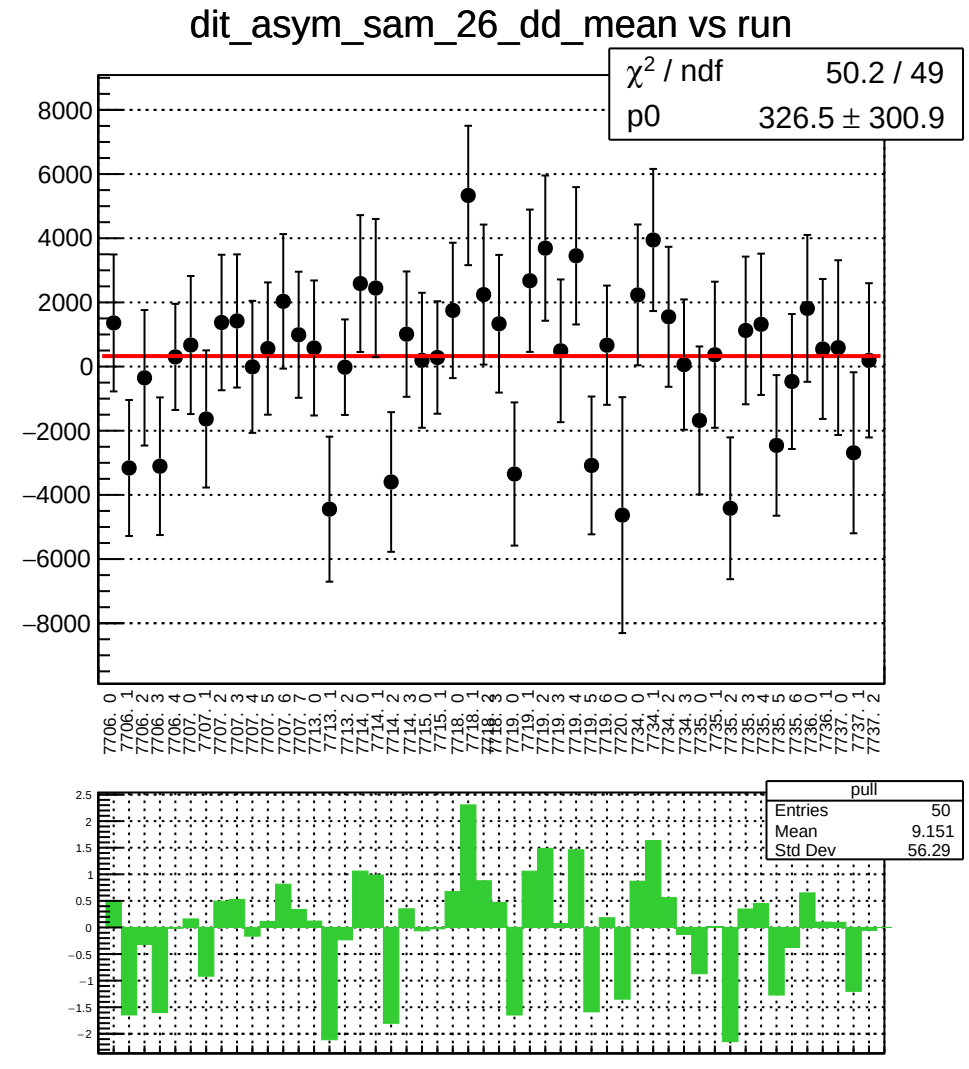

dit_asym_sam_15_dd_rms vs run
χ² / ndf 6586 / 49
p0 100.9 ± 0.1039
150
140
130
120
110
100
90
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

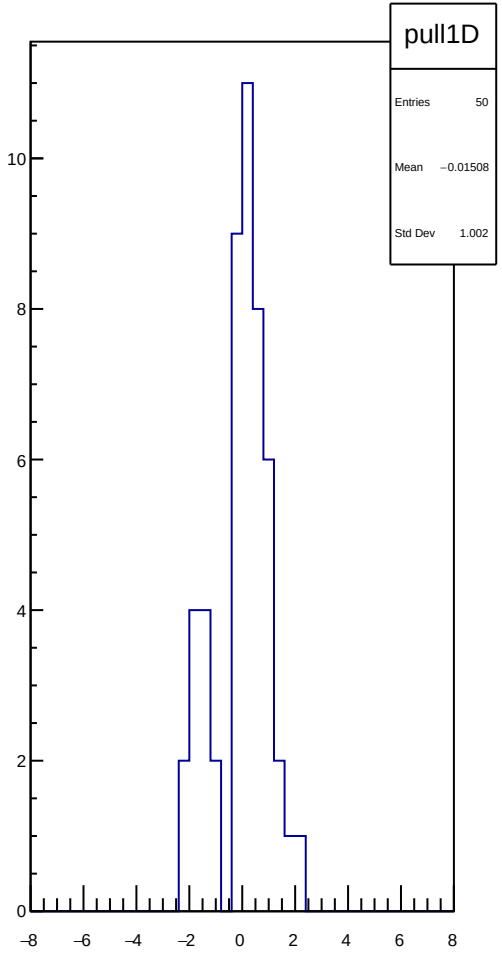

asym_sam_15_dd_correction_mean vs run
χ² / ndf 45.8 / 49
p0 −523.4 ± 1233
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 2.56
Std Dev 40.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean 0.008613
Std Dev 0.957
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

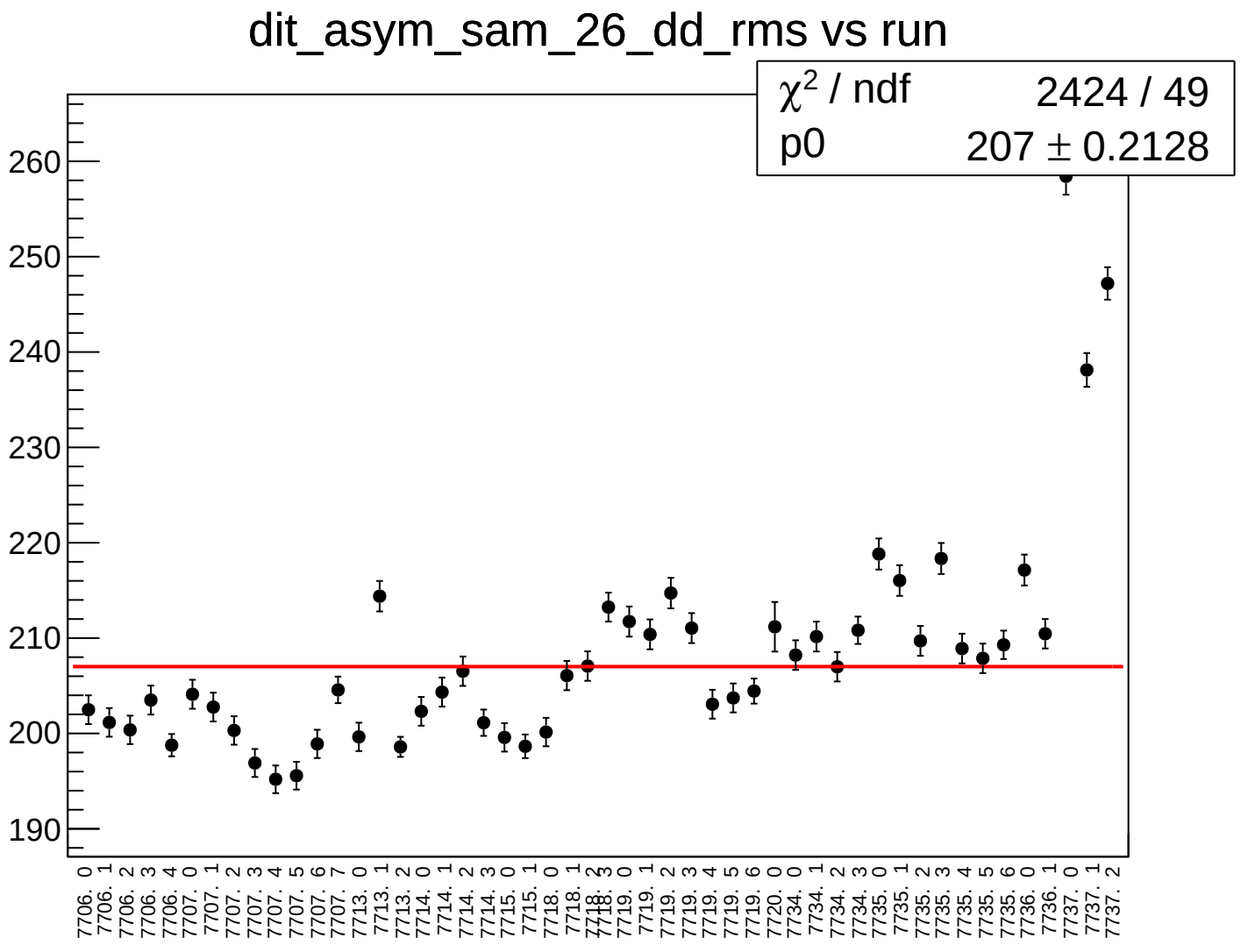

asym_sam_15_dd_correction_rms vs run
χ² / ndf 8.265e+04 / 49
p0 811.2 ± 0.8717
2000
1800
1600
1400
1200
1000
800
600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

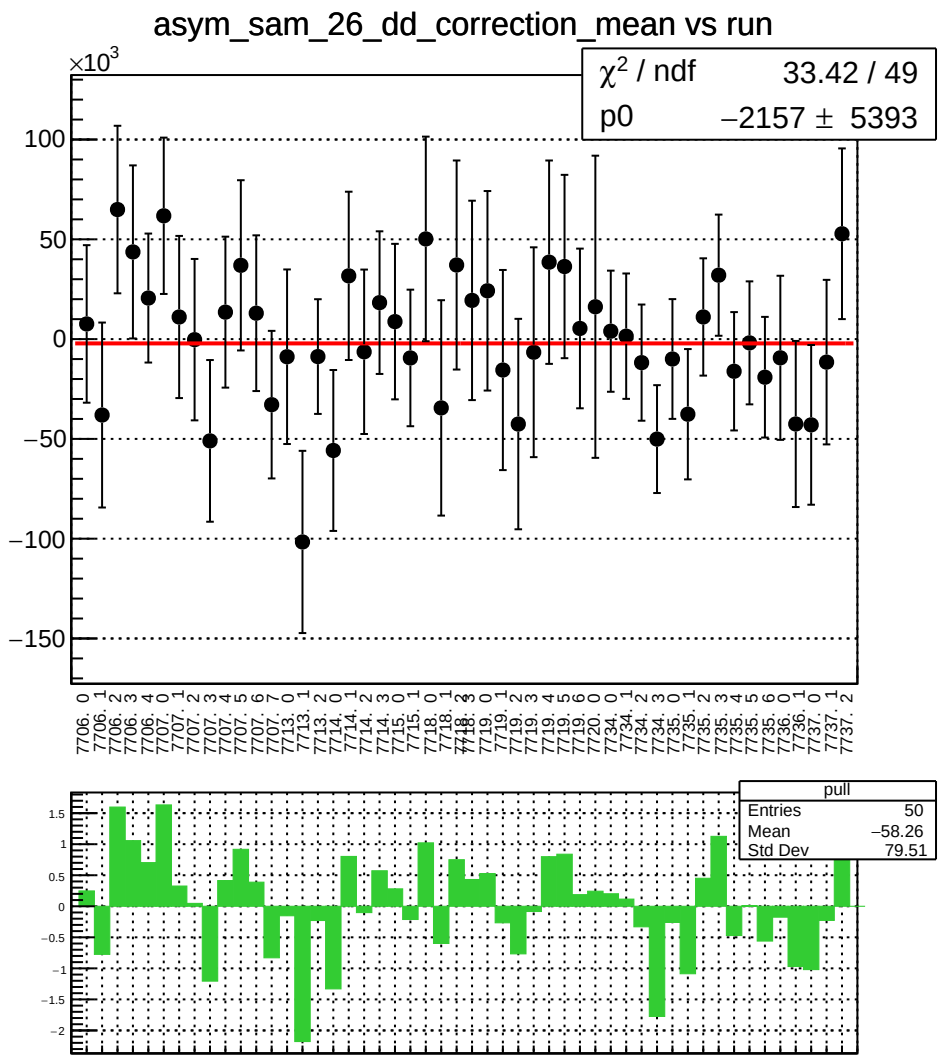

asym_sam_15_dd_mean vs run
χ² / ndf 48.02 / 49
p0 570 ± 1235
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 18.12
Std Dev 21.17
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.0132
Std Dev 0.98
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

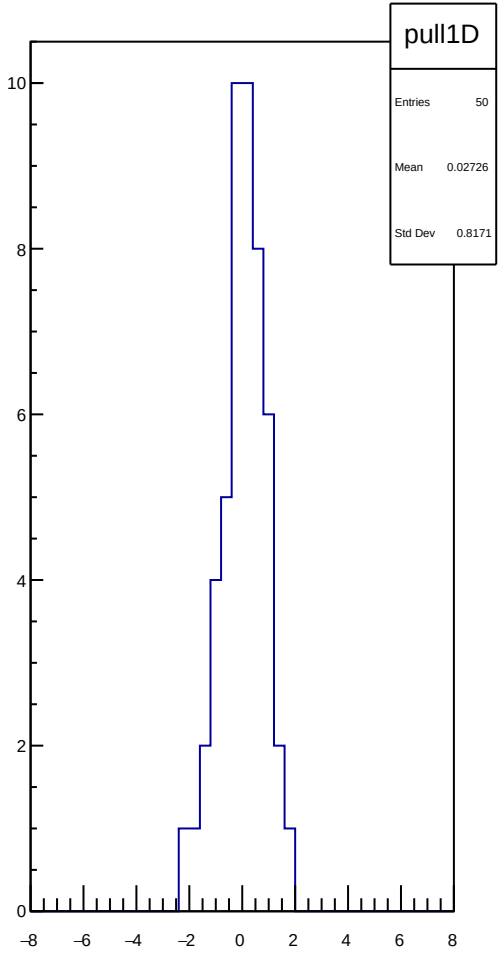

asym_sam_15_dd_rms vs run
χ² / ndf 8.002e+04 / 49
p0 814.1 ± 0.8735
2000
1800
1600
1400
1200
1000
800
600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

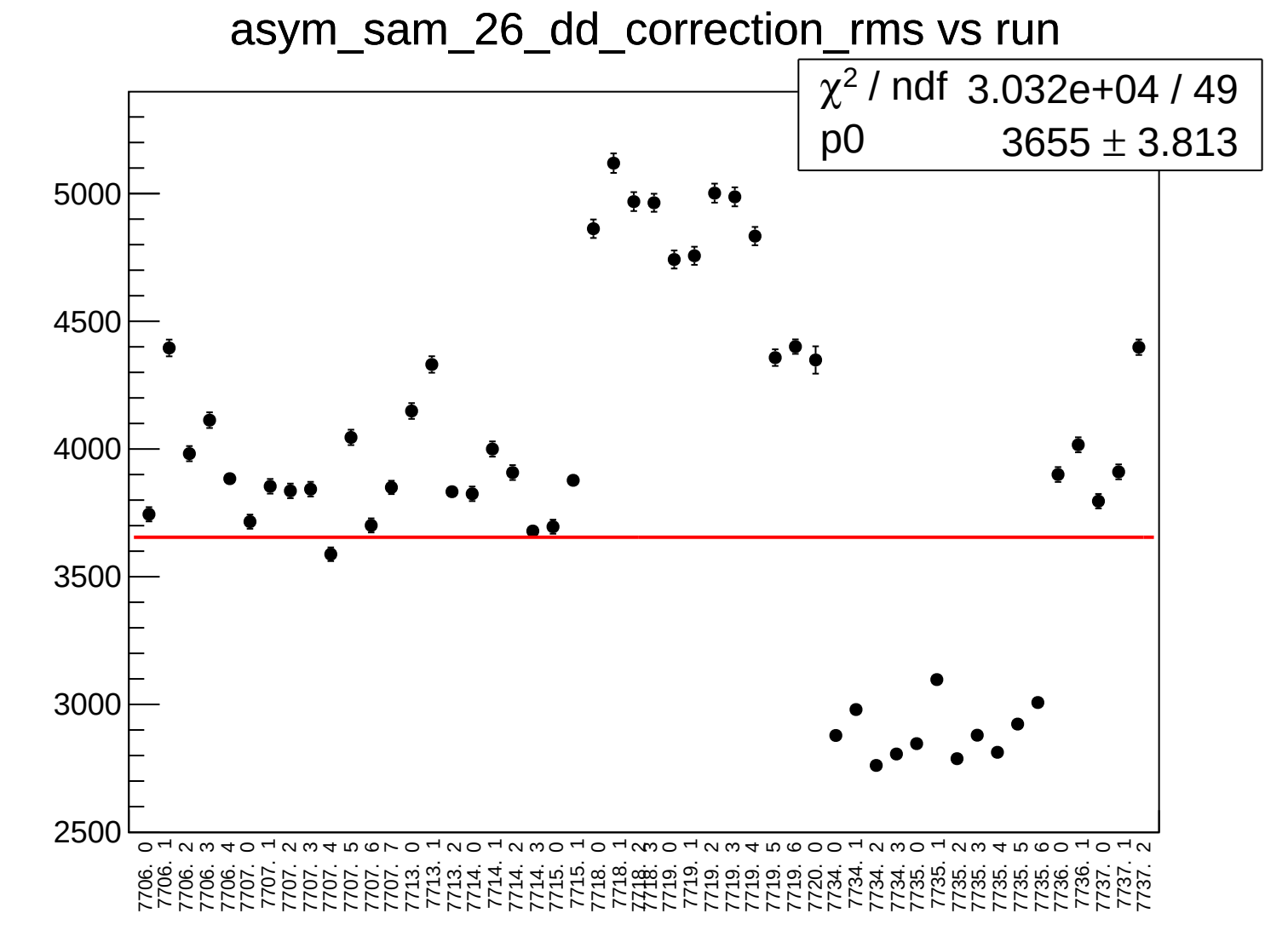

dit_asym_sam_26_dd_mean vs run
χ² / ndf 50.2 / 49
p0 326.5 ± 300.9
pull
Entries 50
Mean 9.151
Std Dev 56.29


pull1D
Entries 50
Mean −0.01508
Std Dev 1.002


dit_asym_sam_26_dd_rms vs run
χ² / ndf 2424 / 49
p0 207 ± 0.2128
260
250
240
230
220
210
200
190
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_26_dd_correction_mean vs run
×10^3
χ² / ndf 33.42 / 49
p0 −2157 ± 5393
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −58.26
Std Dev 79.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02726
Std Dev 0.8171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_correction_rms vs run
χ² / ndf 3.032e+04 / 49
p0 3655 ± 3.813
5000
4500
4000
3500
3000
2500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
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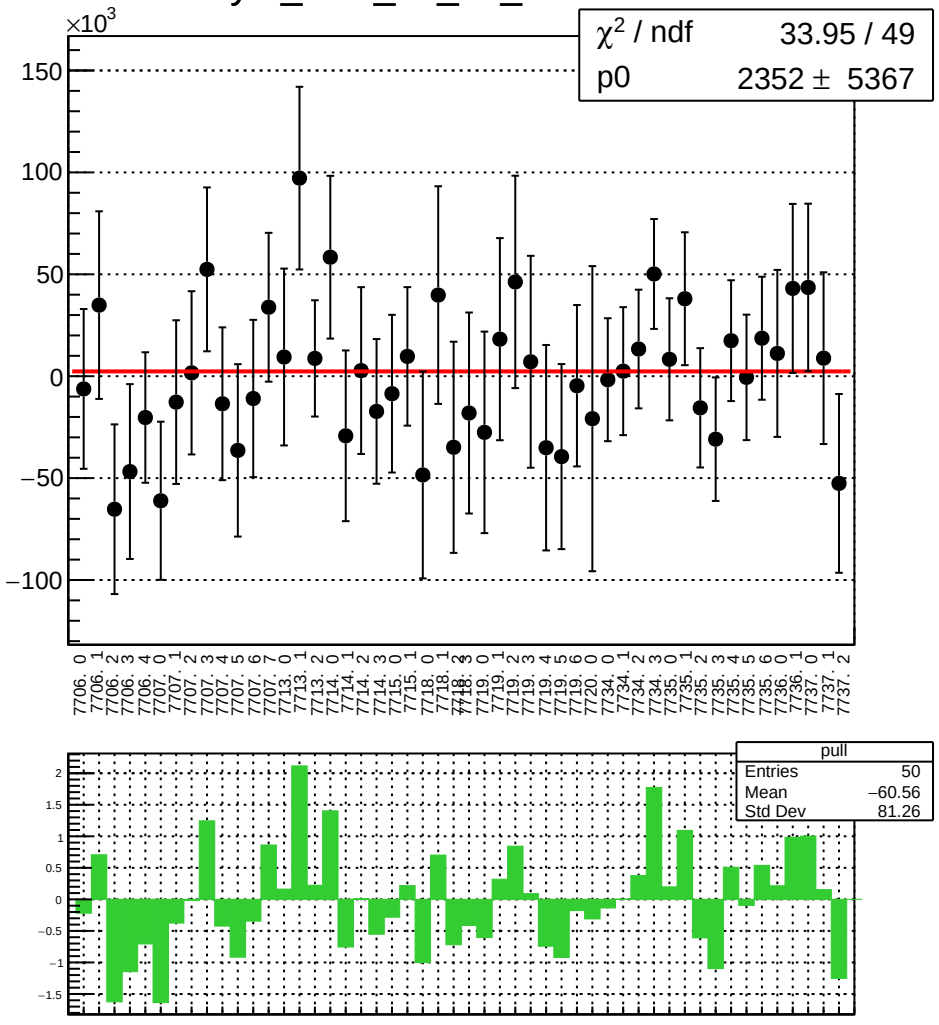
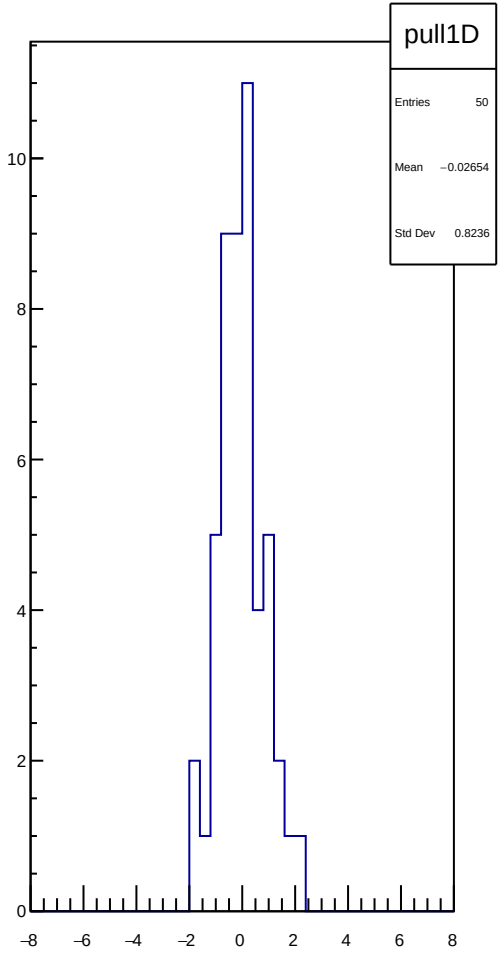
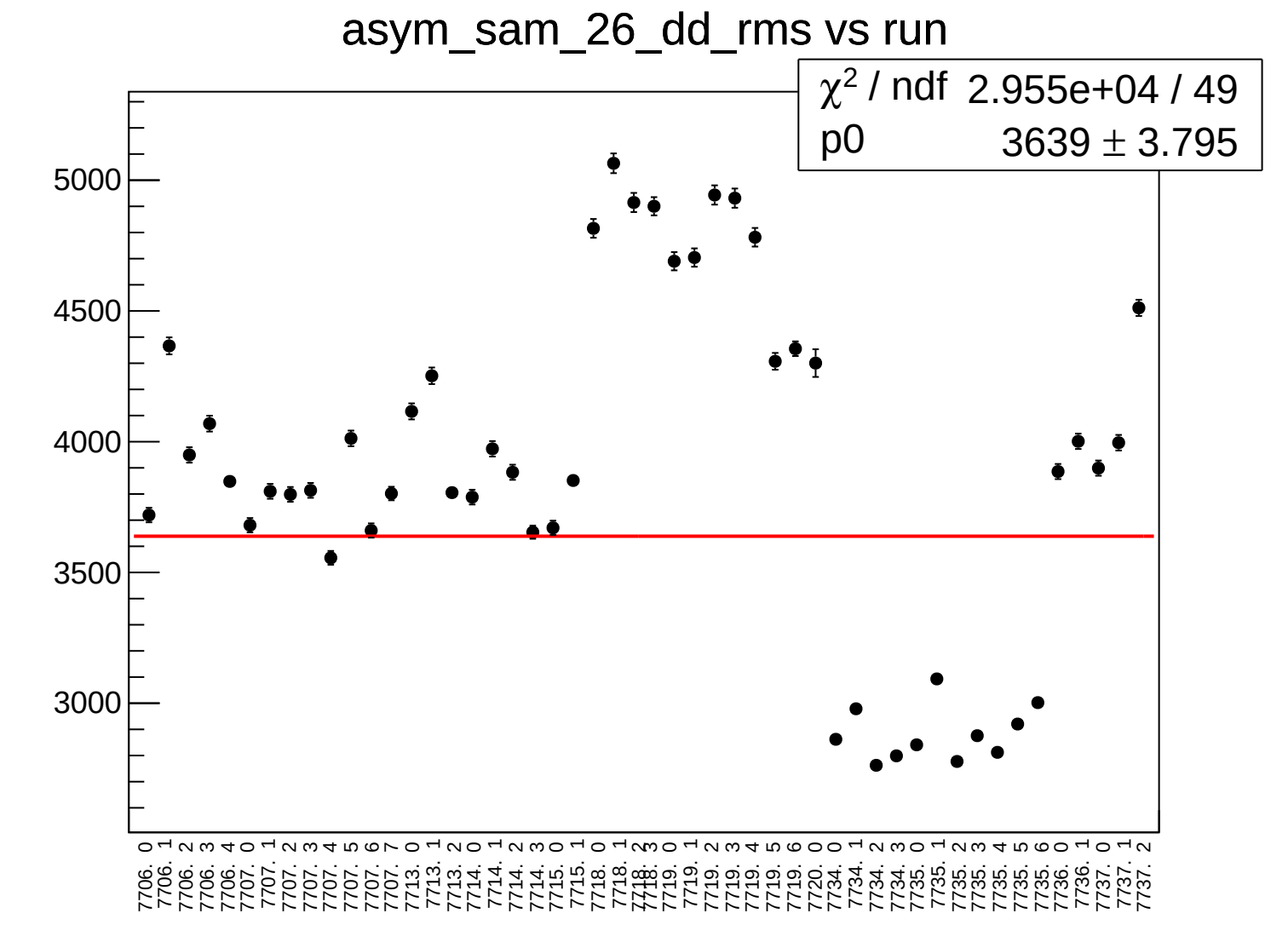
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 33.95 / 49
p0 2352 ± 5367
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −60.56
Std Dev 81.26
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.02654
Std Dev 0.8236
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_dd_rms vs run
χ² / ndf 2.955e+04 / 49
p0 3639 ± 3.795
5000
4500
4000
3500
3000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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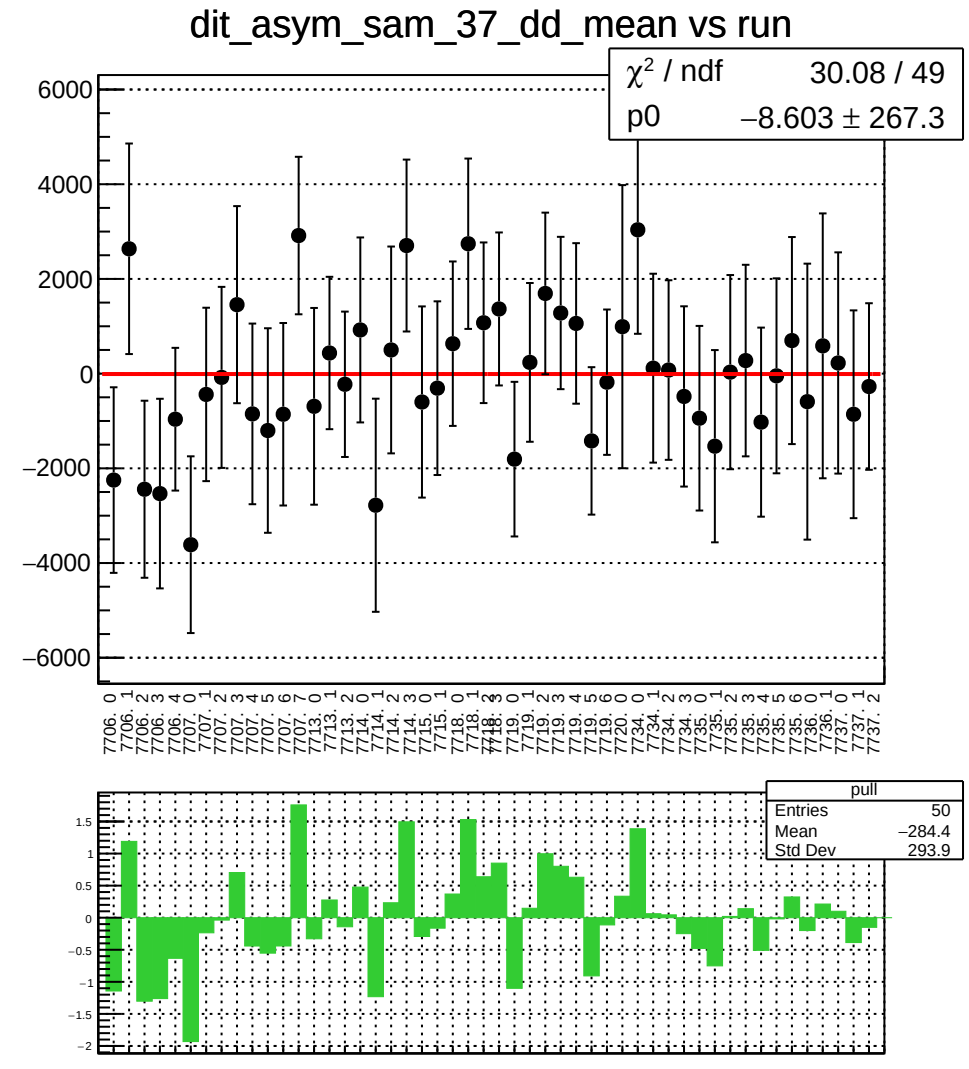
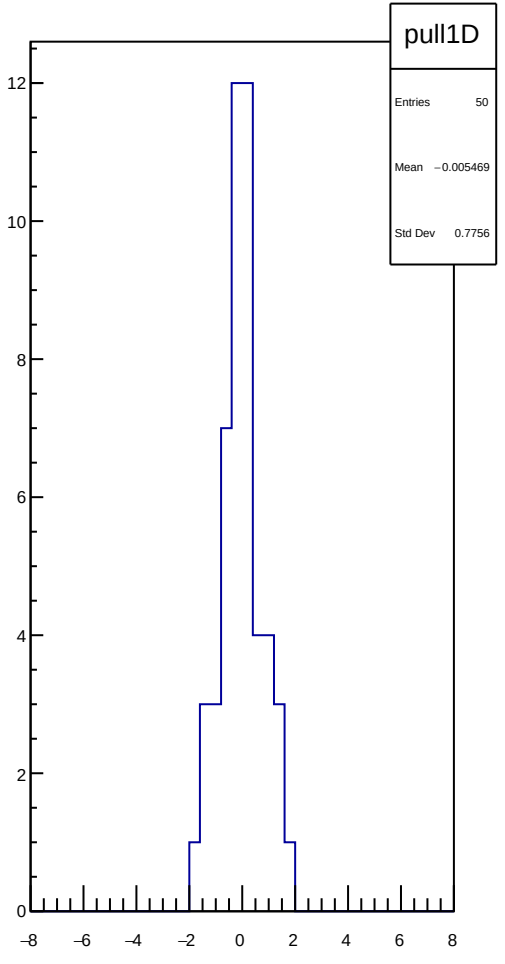
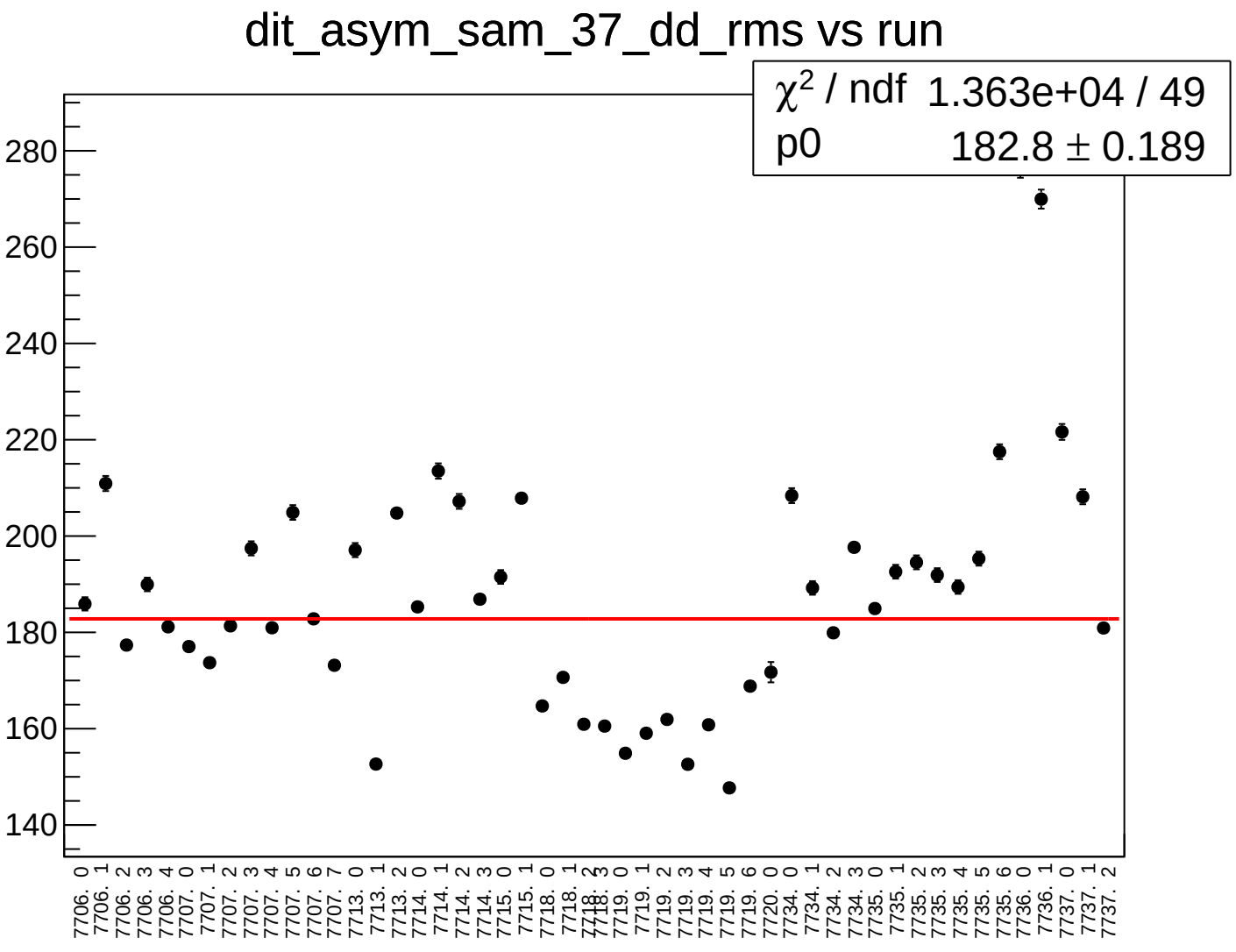
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_37_dd_mean vs run
χ² / ndf 30.08 / 49
p0 −8.603 ± 267.3
pull
Entries 50
Mean −284.4
Std Dev 293.9


pull1D
Entries 50
Mean −0.005469
Std Dev 0.7756


dit_asym_sam_37_dd_rms vs run
χ² / ndf 1.363e+04 / 49
p0 182.8 ± 0.189
280
260
240
220
200
180
160
140
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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7735. 4
7735. 5
7735. 6
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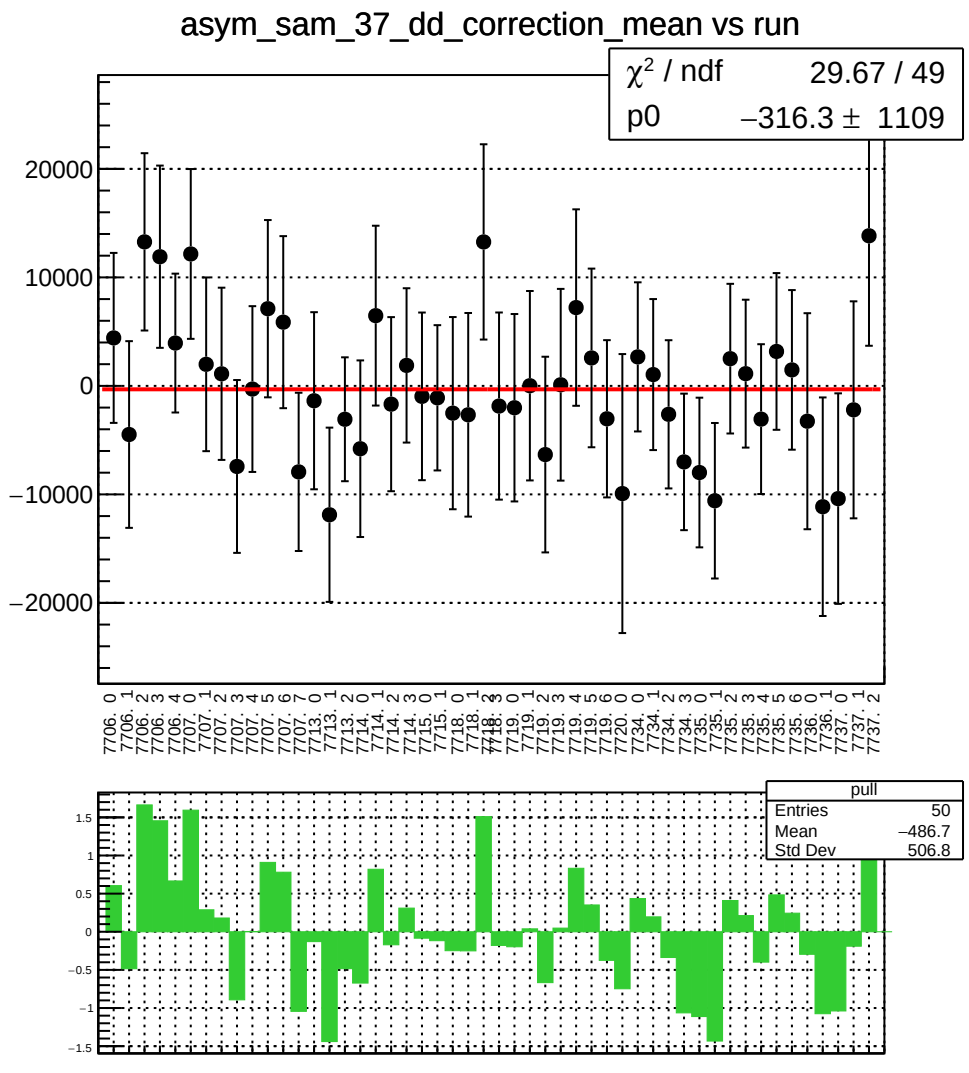
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_37_dd_correction_mean vs run
χ² / ndf 29.67 / 49
p0 −316.3 ± 1109
20000
10000
0
−10000
−20000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7718. 2
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7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
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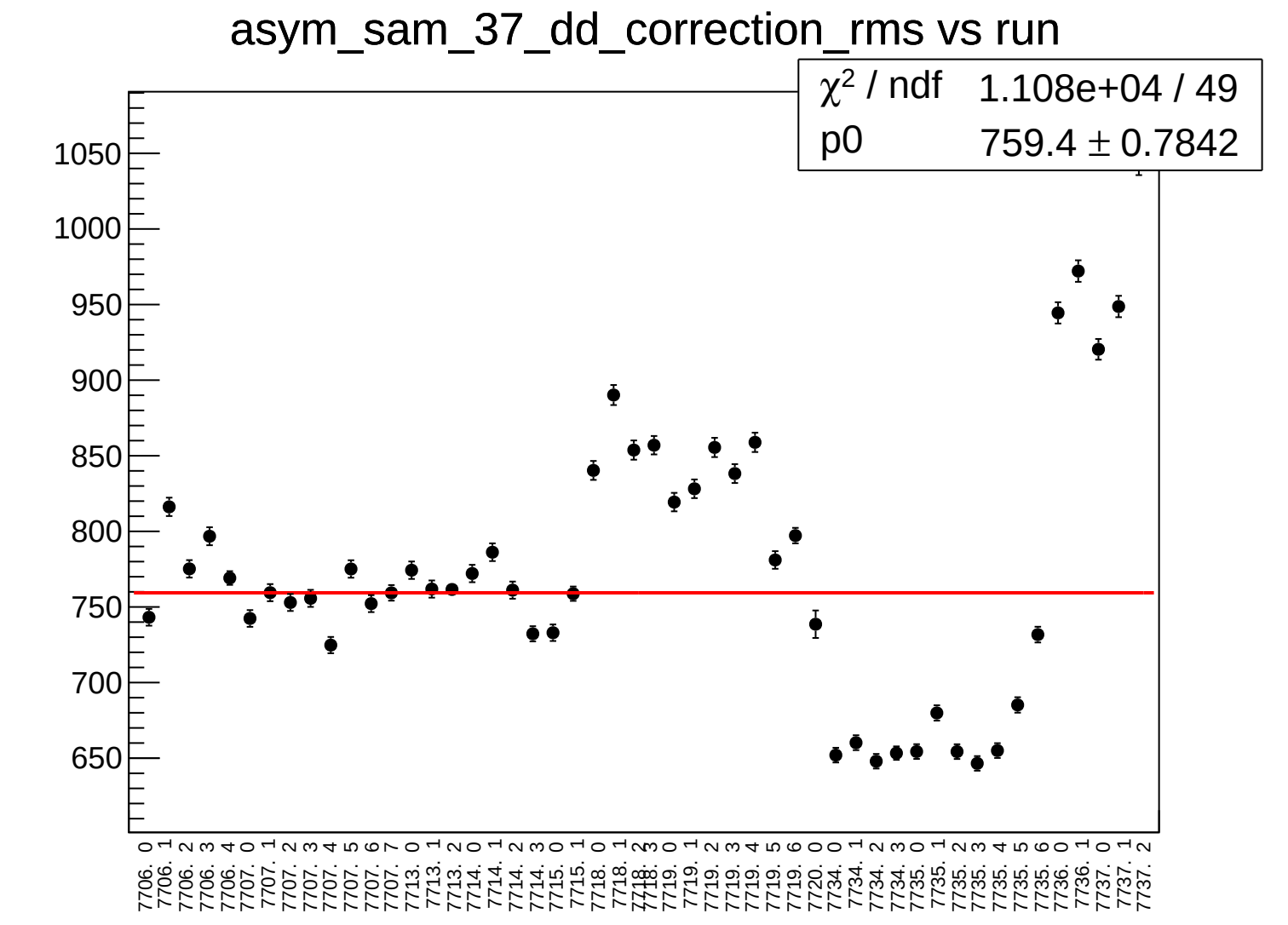
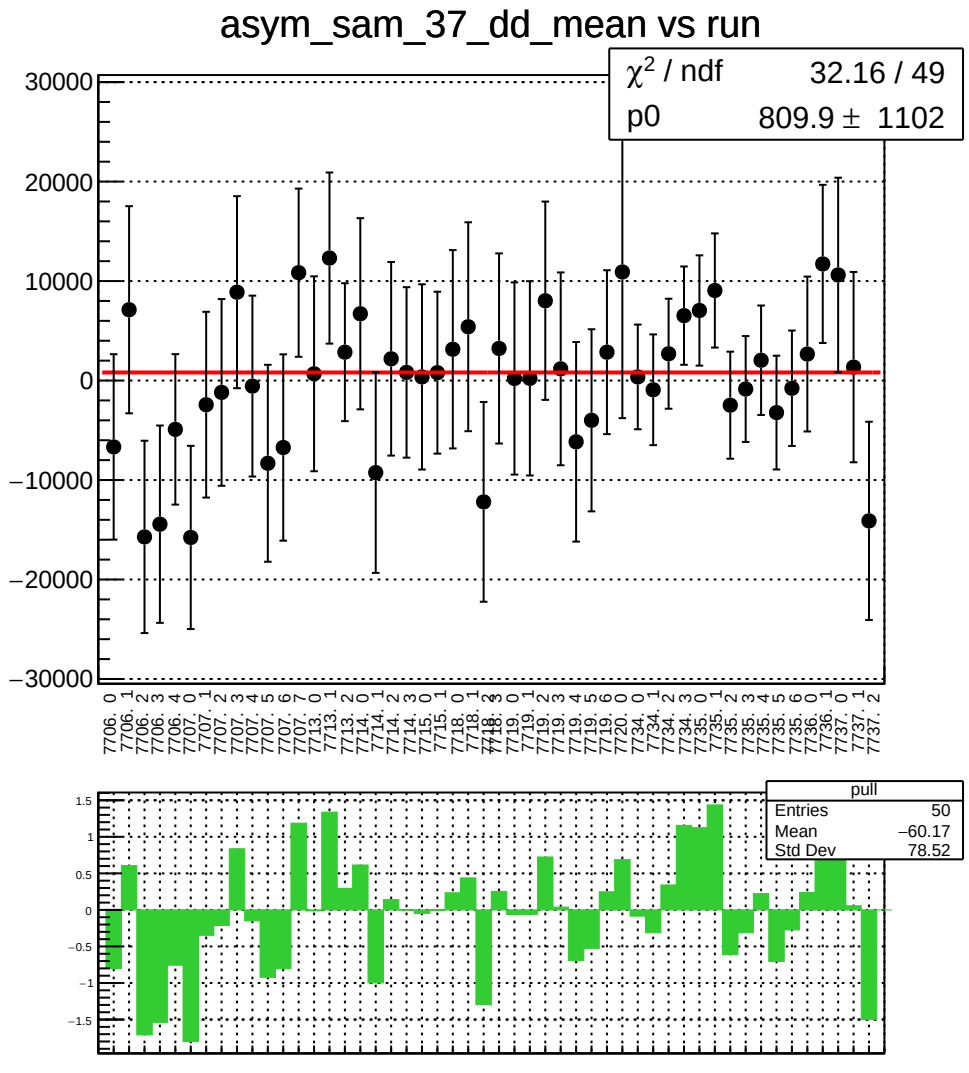
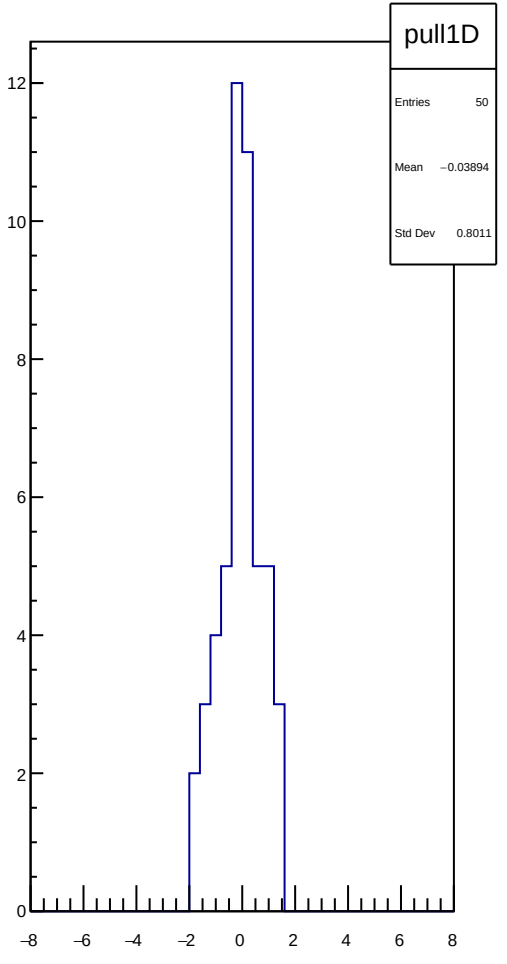
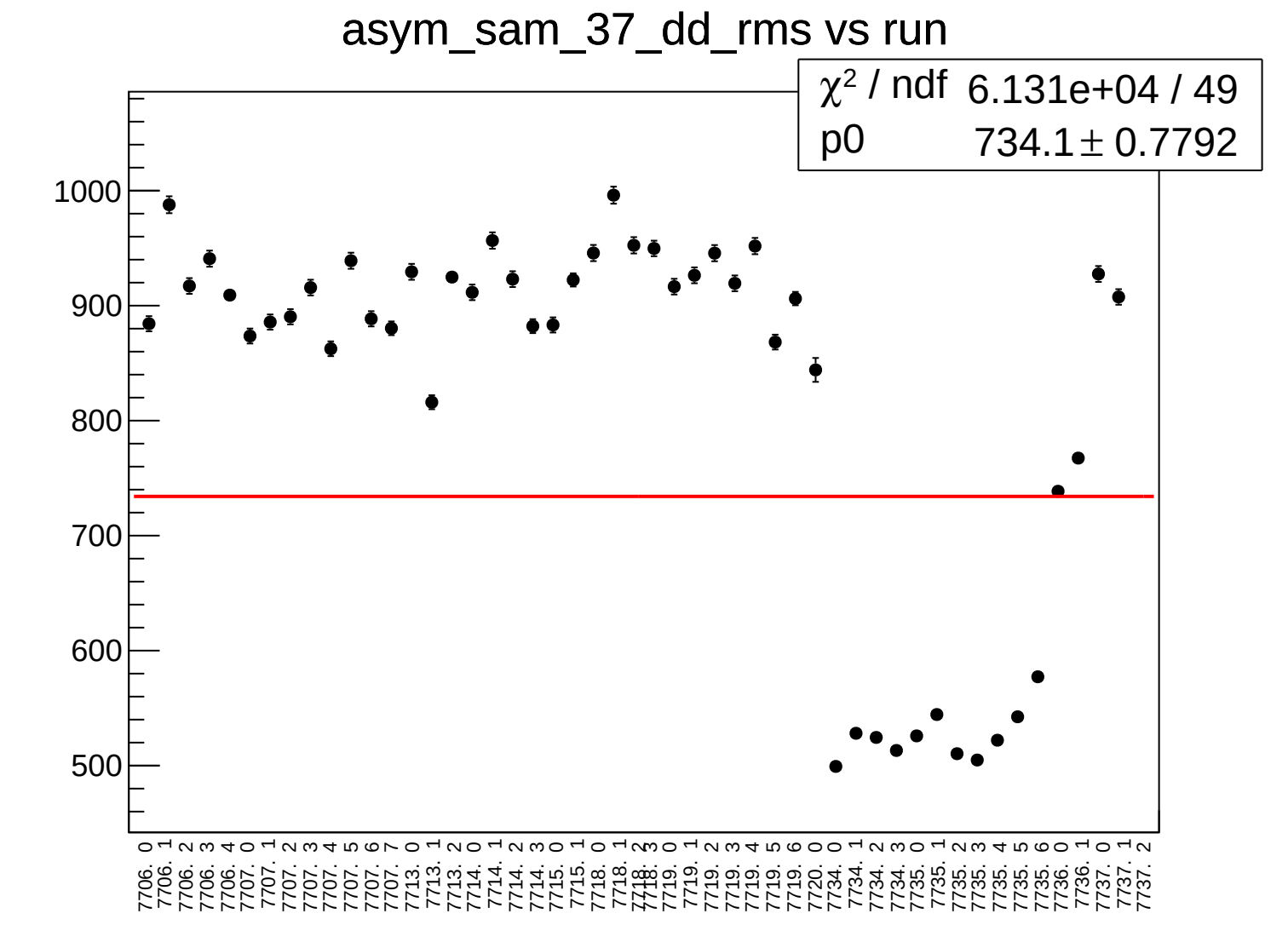
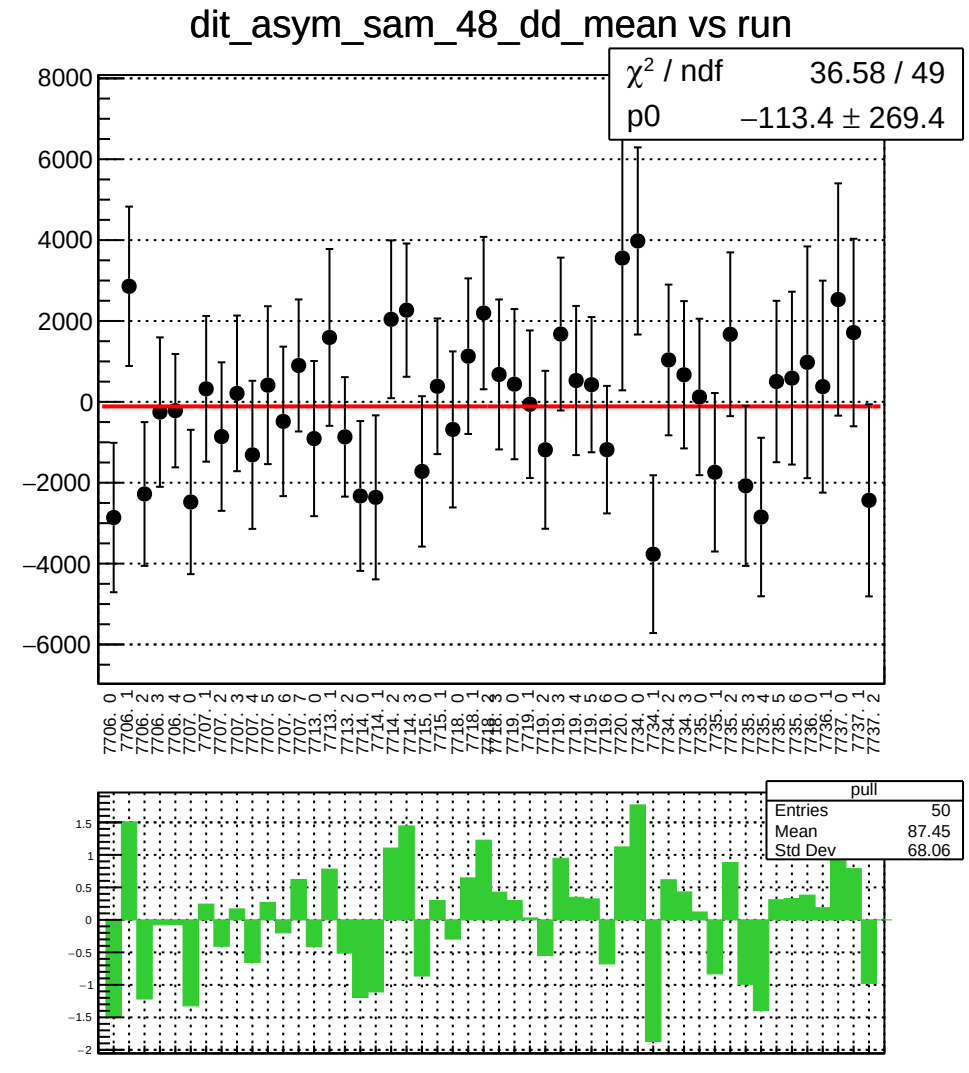
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −486.7
Std Dev 506.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.00617
Std Dev 0.7703
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

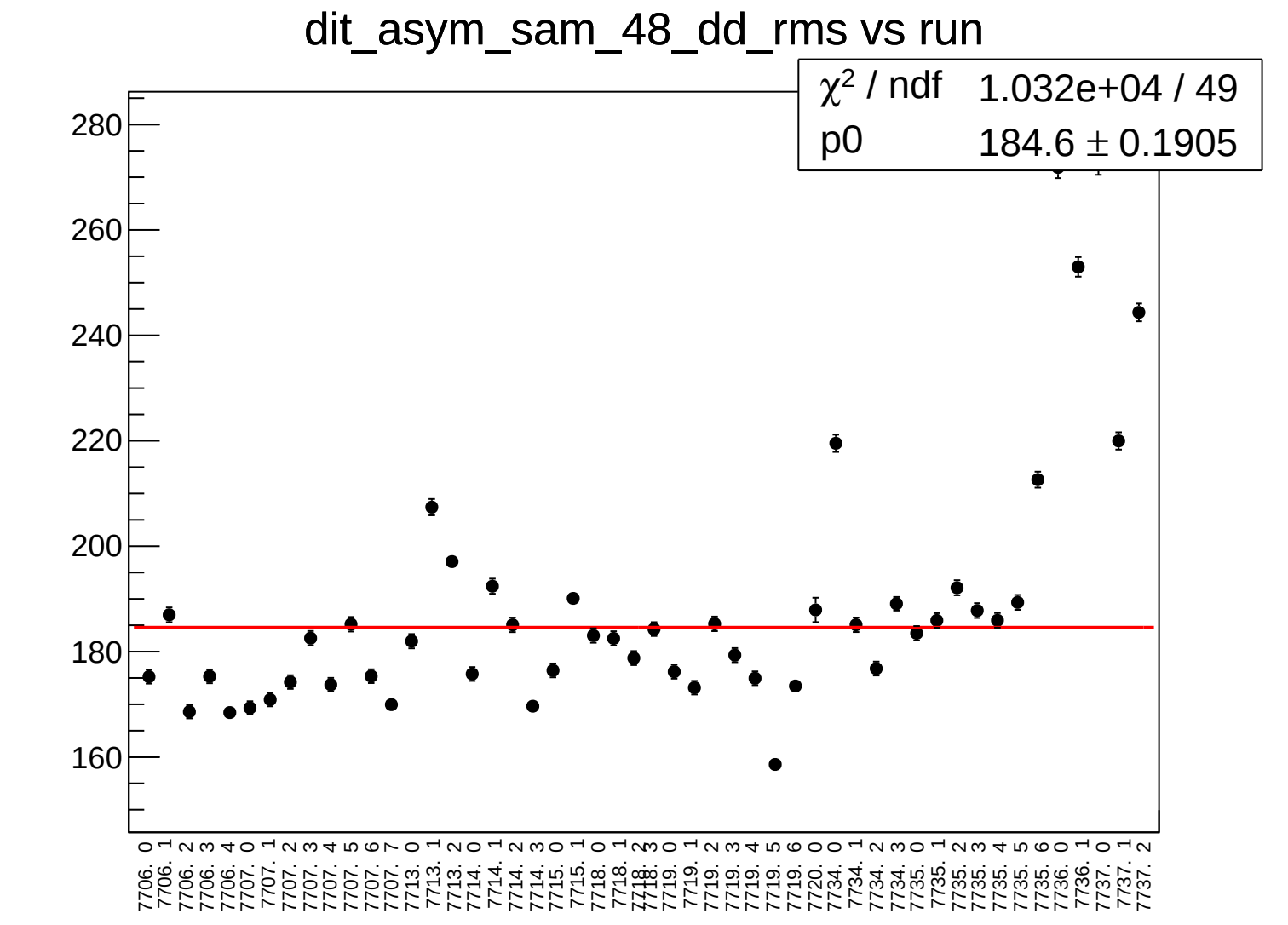

asym_sam_37_dd_correction_rms vs run
χ² / ndf 1.108e+04 / 49
p0 759.4 ± 0.7842
1050
1000
950
900
850
800
750
700
650
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

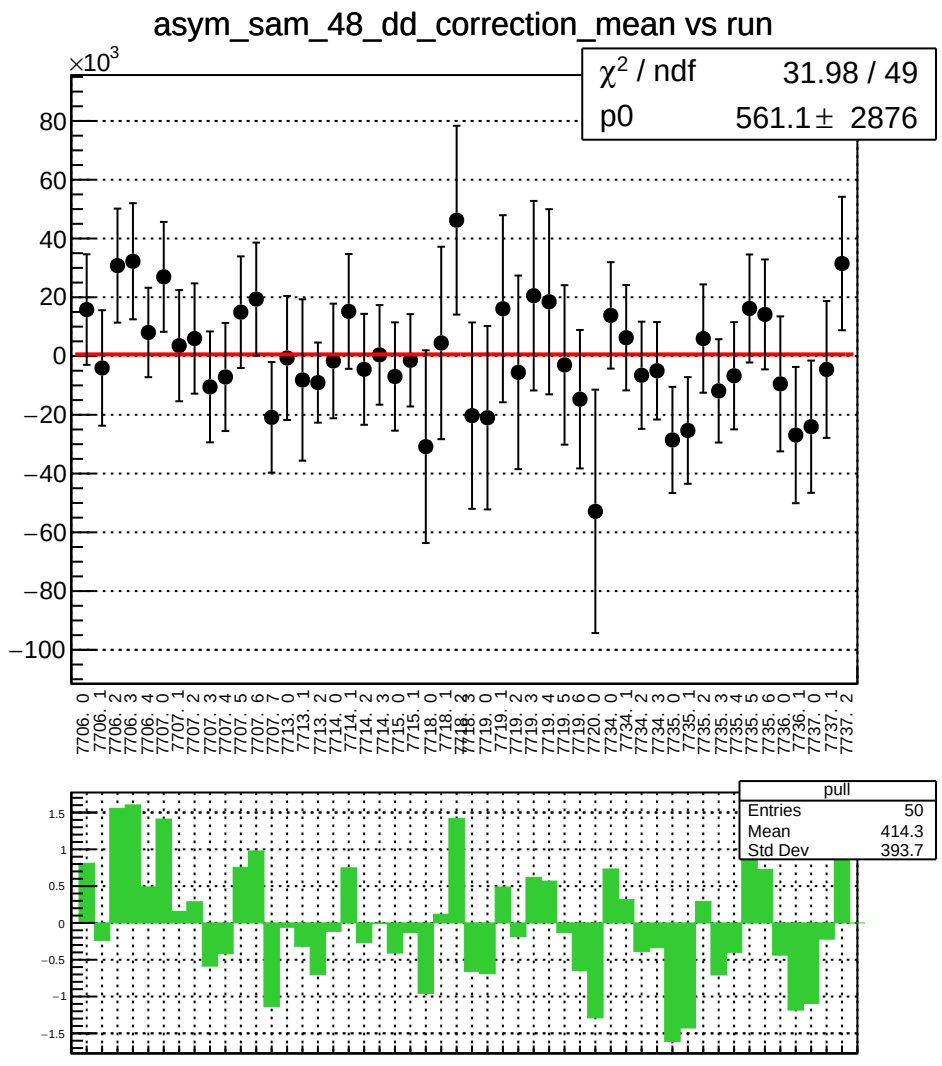

asym_sam_37_dd_mean vs run
χ² / ndf 32.16 / 49
p0 809.9 ± 1102
pull
Entries 50
Mean −60.17
Std Dev 78.52

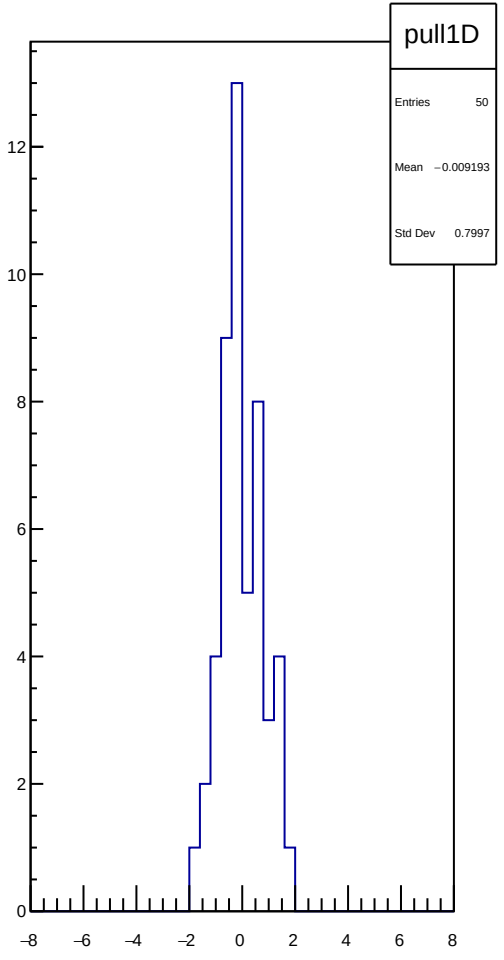

pull1D
Entries 50
Mean −0.03894
Std Dev 0.8011

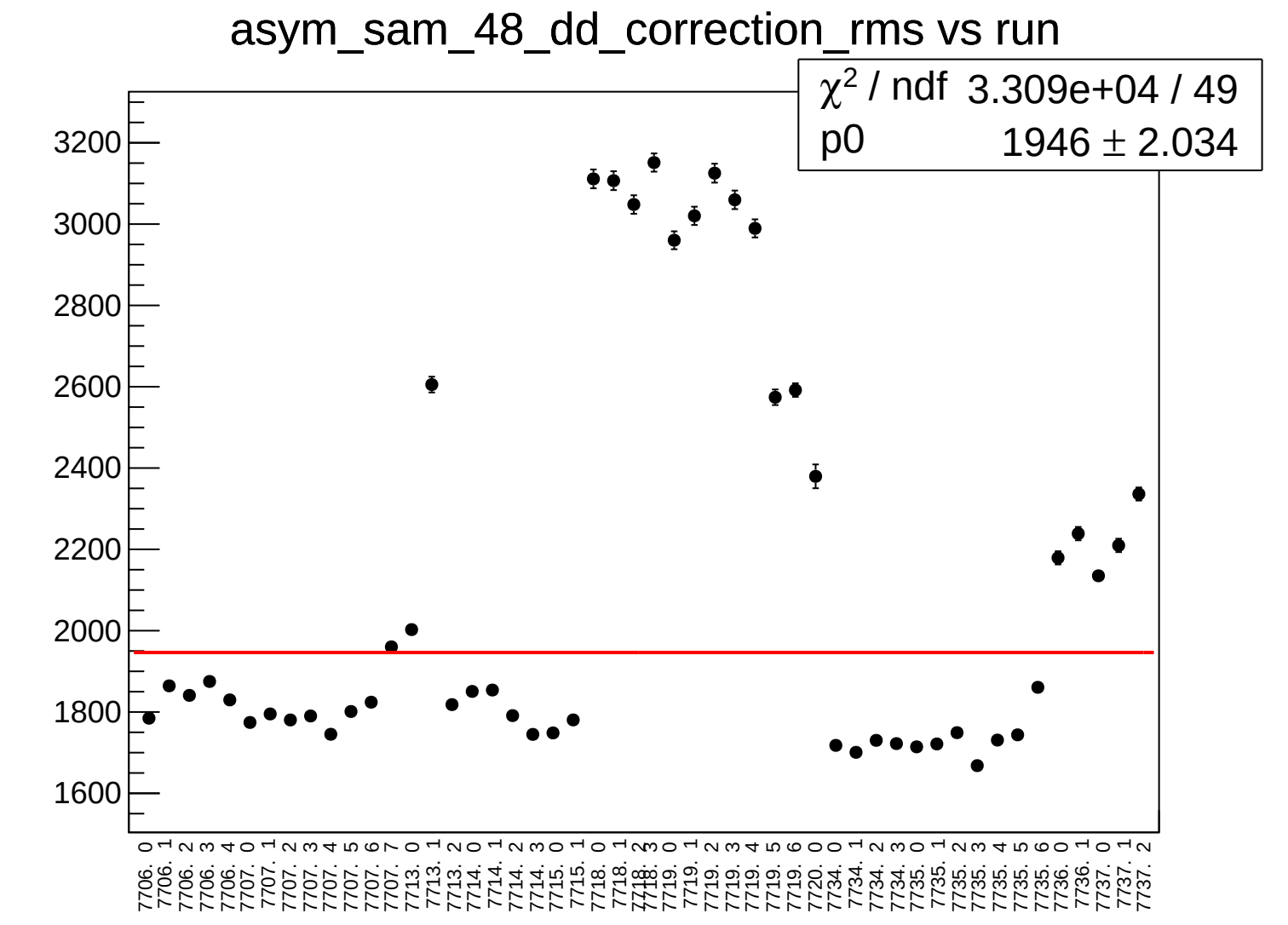

asym_sam_37_dd_rms vs run
χ² / ndf 6.131e+04 / 49
p0 734.1 ± 0.7792
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

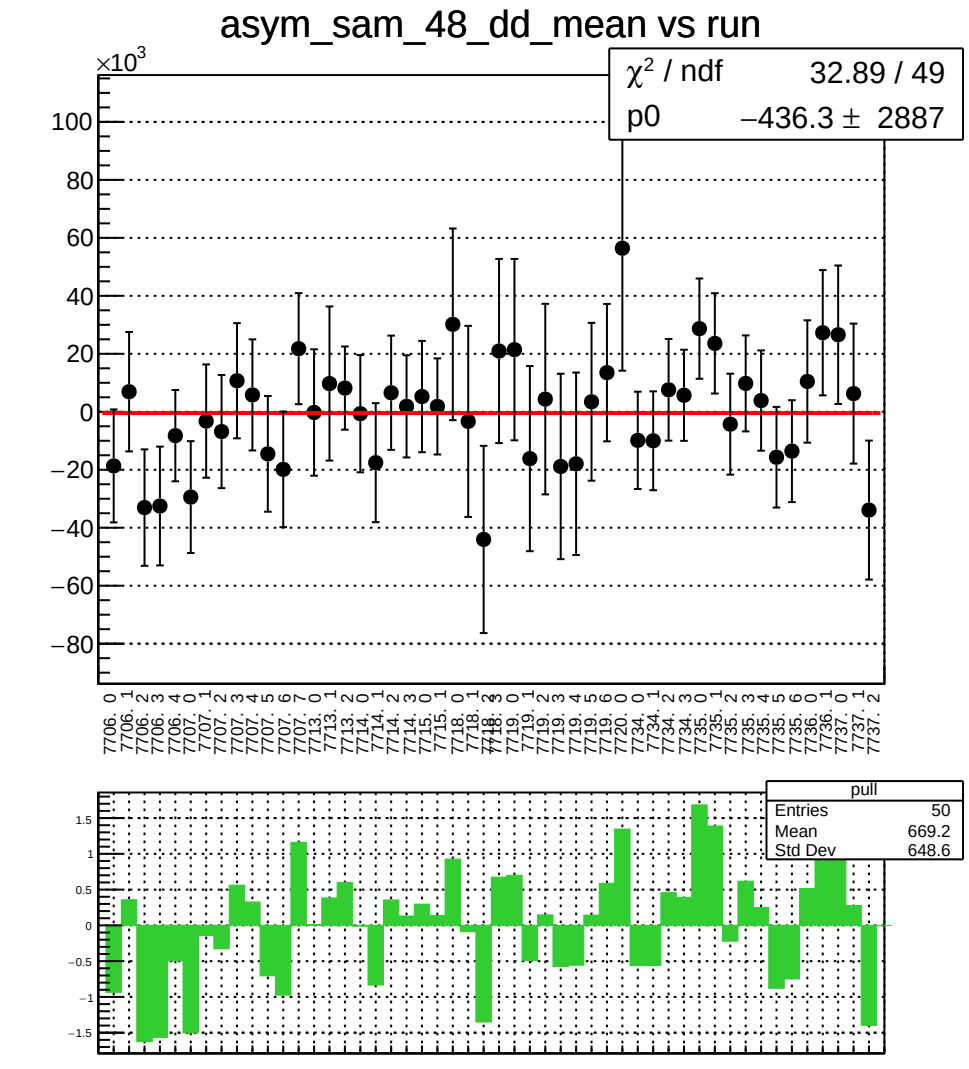

dit_asym_sam_48_dd_mean vs run
χ² / ndf 36.58 / 49
p0 −113.4 ± 269.4
8000
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 87.45
Std Dev 68.06
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.02818
Std Dev 0.8549
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

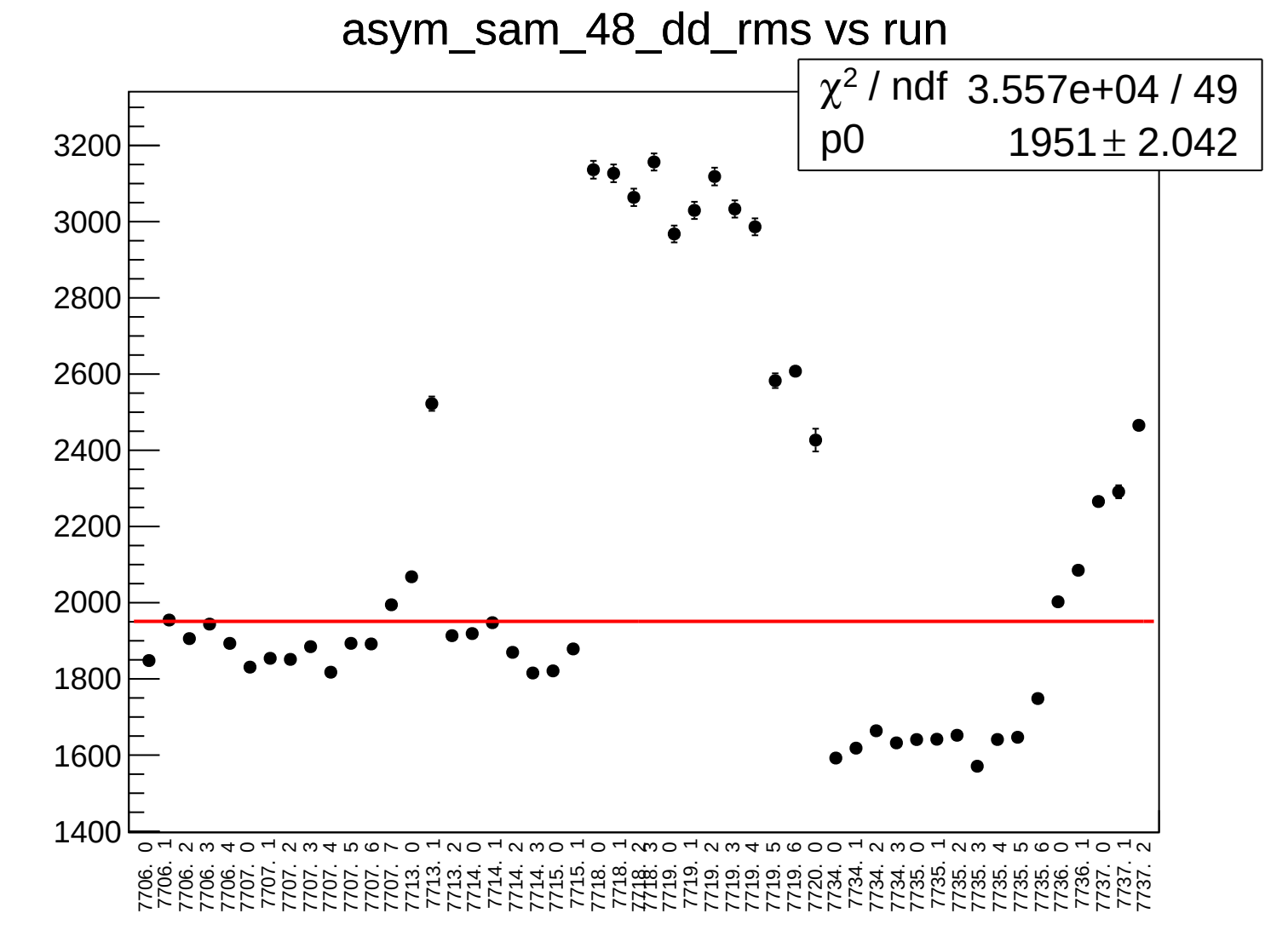

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.032e+04 / 49
p0 184.6 ± 0.1905
280
260
240
220
200
180
160
17706. 0
17706. 1
17706. 2
17706. 3
17706. 4
17707. 0
17707. 1
17707. 2
17707. 3
17707. 4
17707. 5
17707. 6
17707. 7
17713. 0
17713. 1
17713. 2
17714. 0
17714. 1
17714. 2
17714. 3
17715. 0
17715. 1
17718. 0
17718. 1
17718. 2
17718. 3
17719. 0
17719. 1
17719. 2
17719. 3
17719. 4
17719. 5
17719. 6
17720. 0
17734. 0
17734. 1
17734. 2
17734. 3
17735. 0
17735. 1
17735. 2
17735. 3
17735. 4
17735. 5
17735. 6
17736. 0
17736. 1
17737. 0
17737. 1
17737. 2

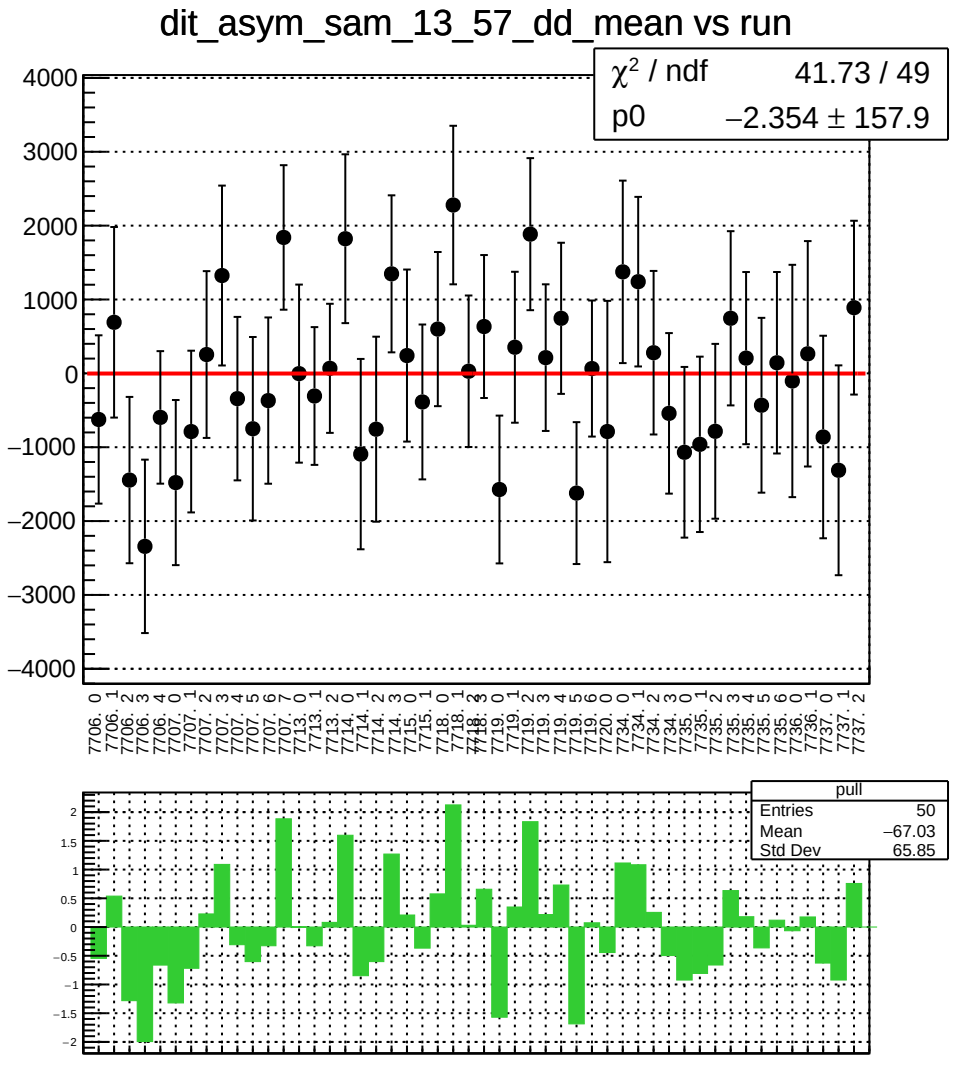

asym_sam_48_dd_correction_mean vs run
χ² / ndf 31.98 / 49
p0 561.1 ± 2876
×10³
pull
Entries 50
Mean 414.3
Std Dev 393.7

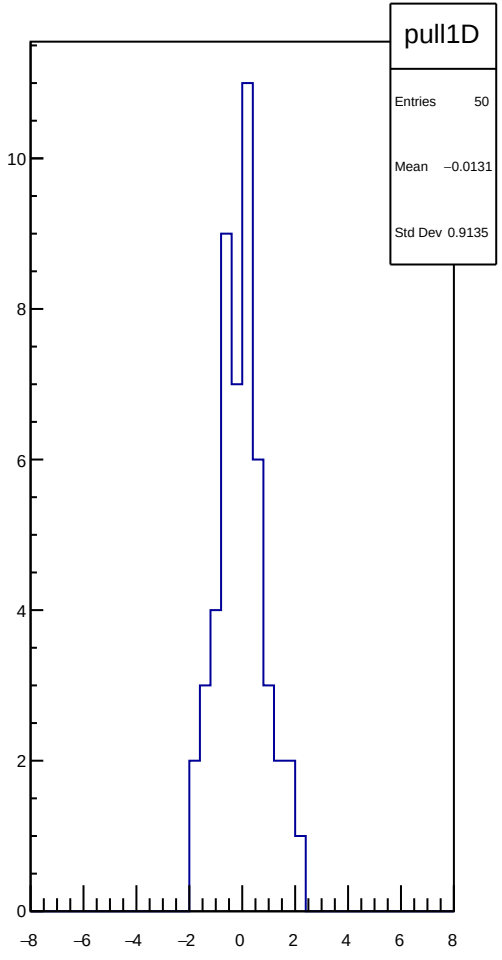

pull1D
Entries 50
Mean −0.009193
Std Dev 0.7997

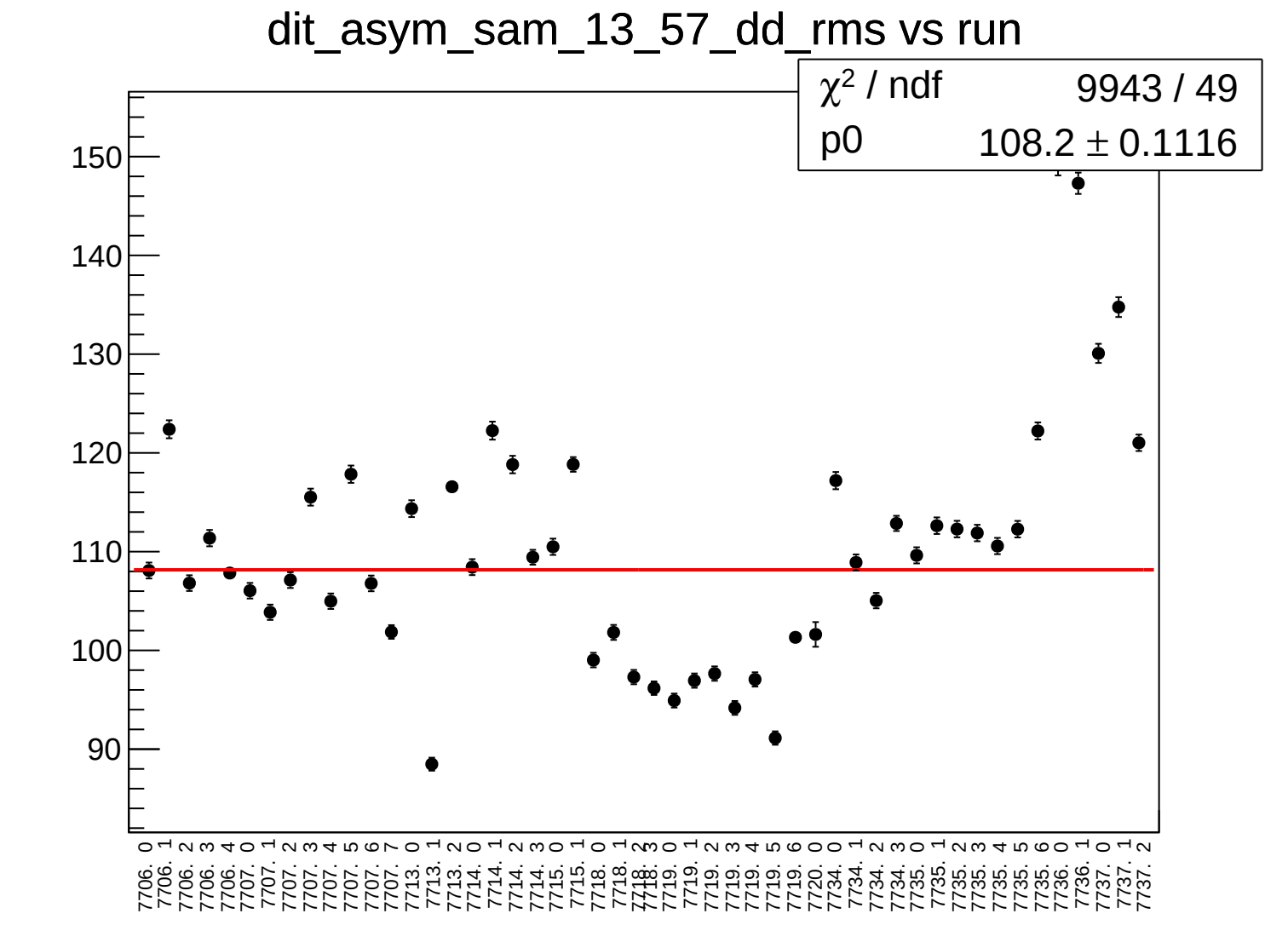

asym_sam_48_dd_correction_rms vs run
χ² / ndf 3.309e+04 / 49
p0 1946 ± 2.034
3200
3000
2800
2600
2400
2200
2000
1800
1600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

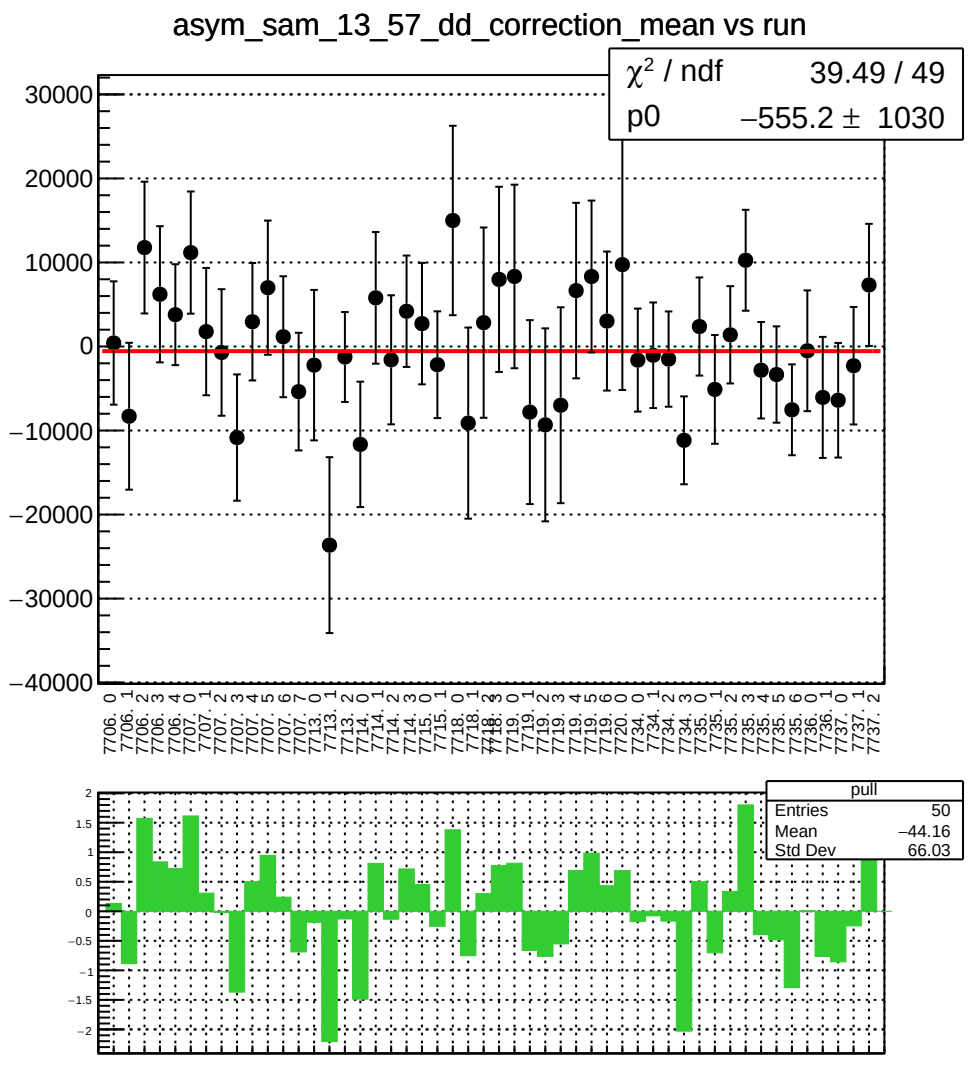

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 32.89 / 49
p0 −436.3 ± 2887
100
80
60
40
20
0
−20
−40
−60
−80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 669.2
Std Dev 648.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.005807
Std Dev 0.8111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

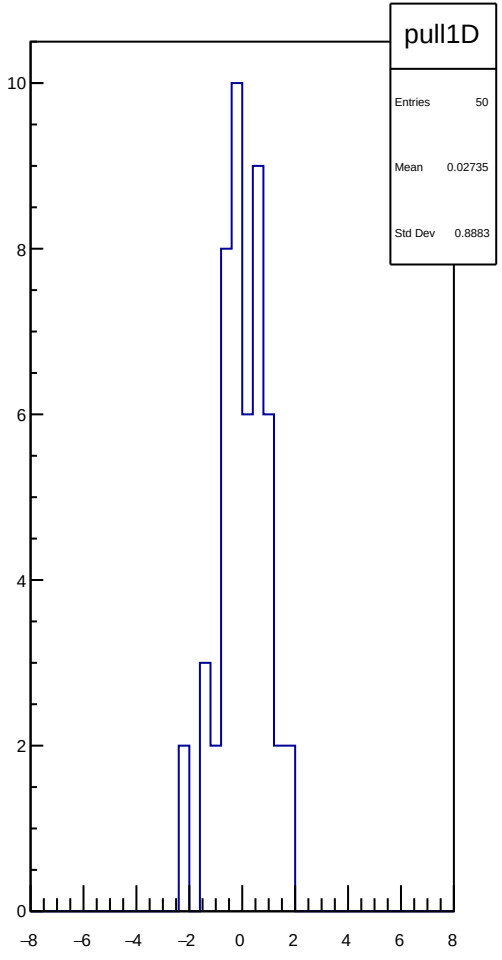

asym_sam_48_dd_rms vs run
χ² / ndf 3.557e+04 / 49
p0 1951 ± 2.042
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

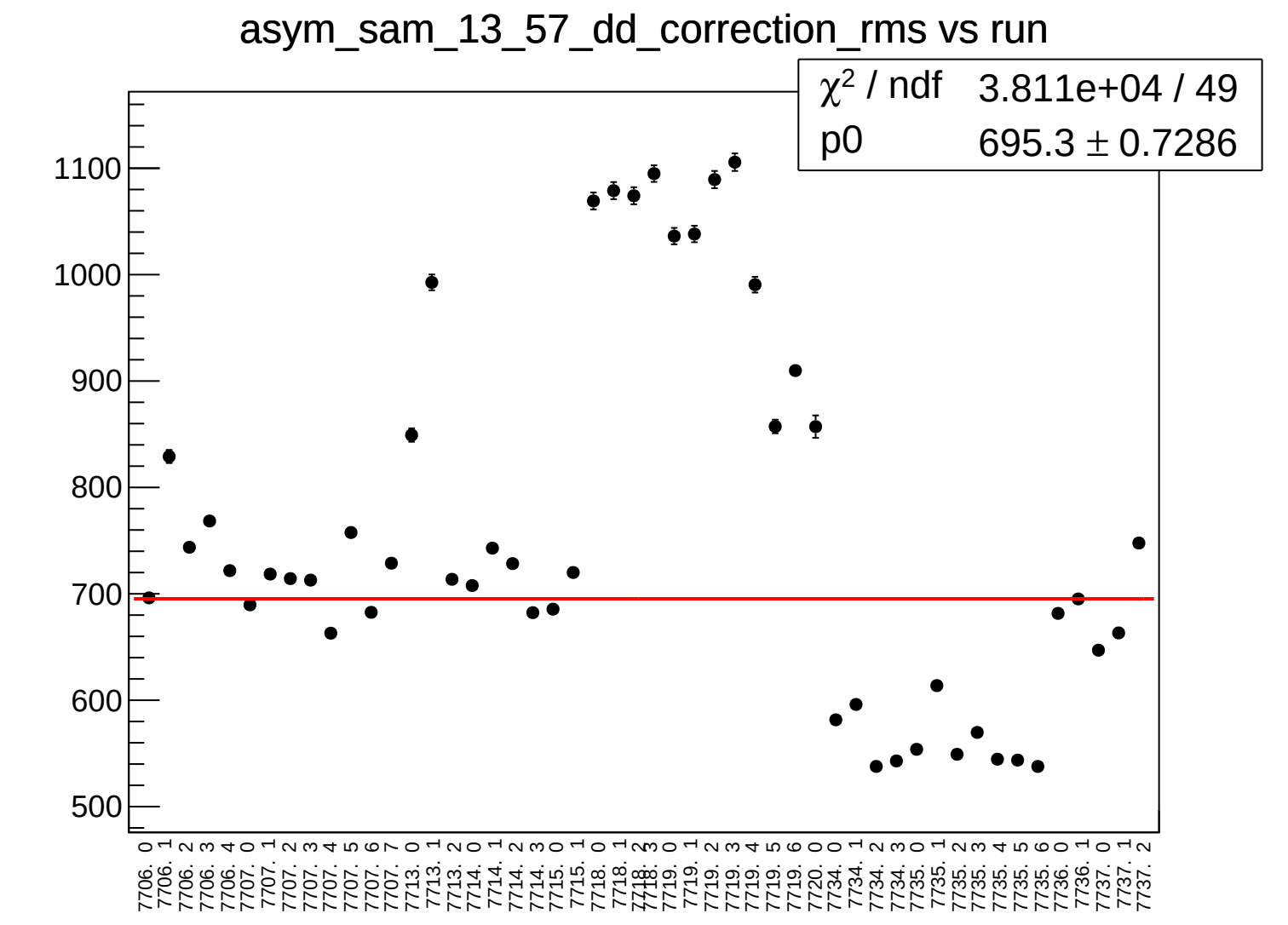

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 41.73 / 49
p0 −2.354 ± 157.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −67.03
Std Dev 65.85
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

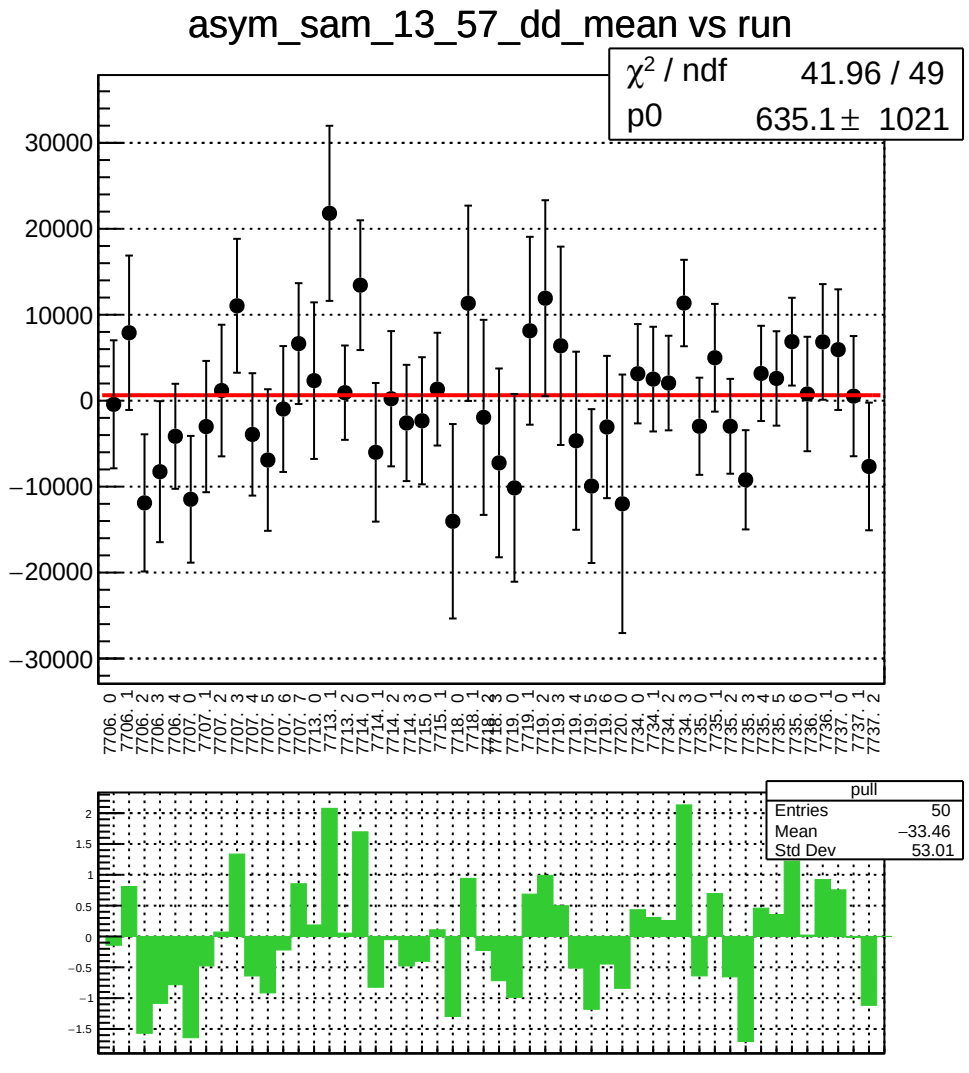

pull1D
Entries 50
Mean −0.0131
Std Dev 0.9135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

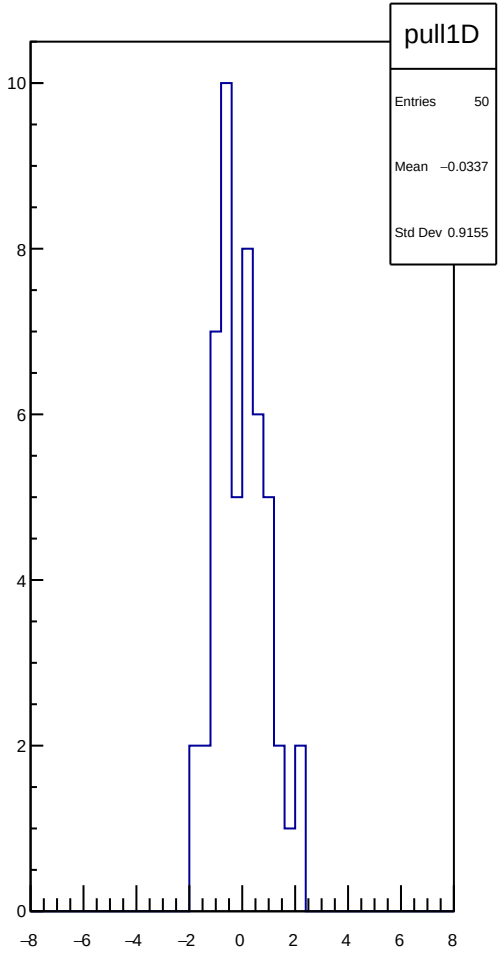

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 9943 / 49
p0 108.2 ± 0.1116
150
140
130
120
110
100
90
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

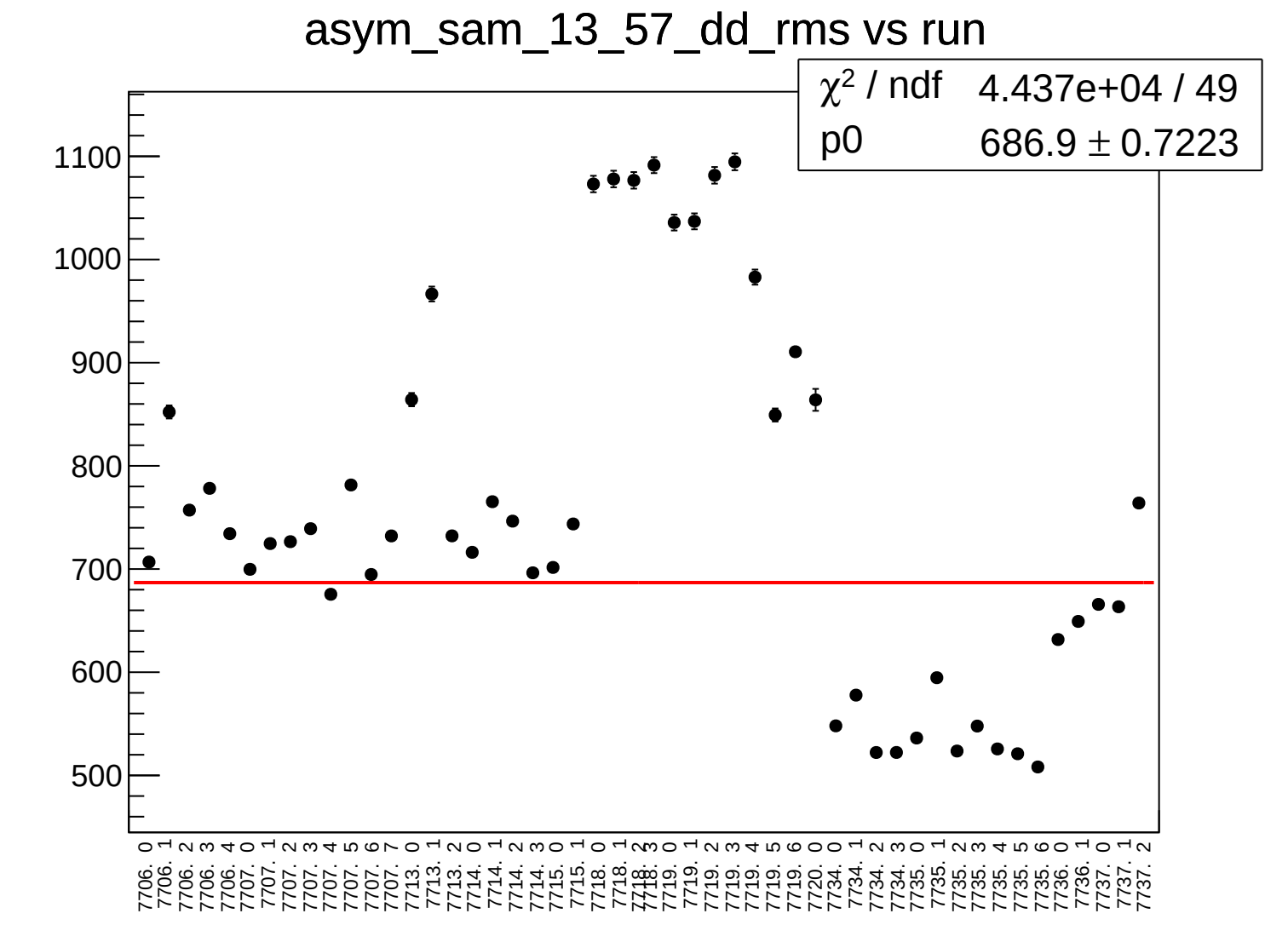

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 39.49 / 49
p0 −555.2 ± 1030
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −44.16
Std Dev 66.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.02735
Std Dev 0.8883
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 3.811e+04 / 49
p0 695.3 ± 0.7286
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_13_57_dd_mean vs run
χ² / ndf 41.96 / 49
p0 635.1 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −33.46
Std Dev 53.01
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.0337
Std Dev 0.9155
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 4.437e+04 / 49
p0 686.9 ± 0.7223
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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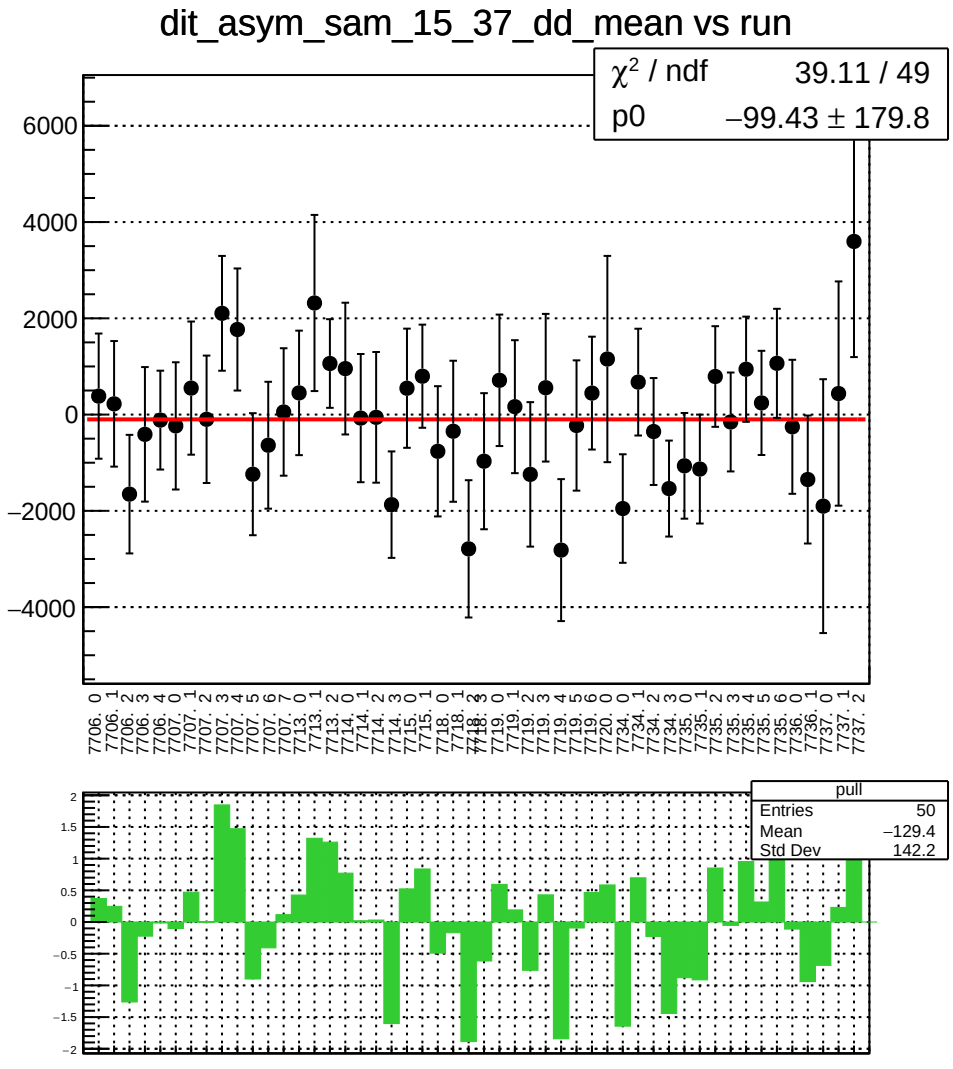
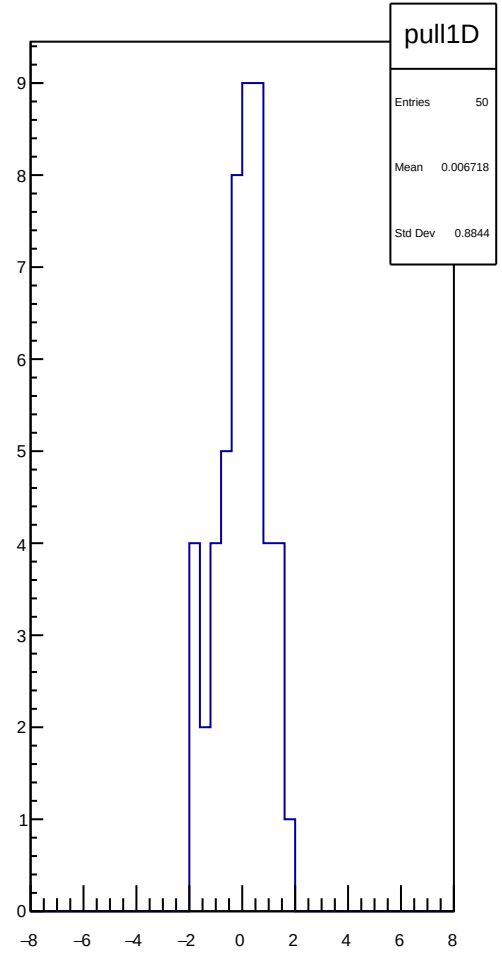
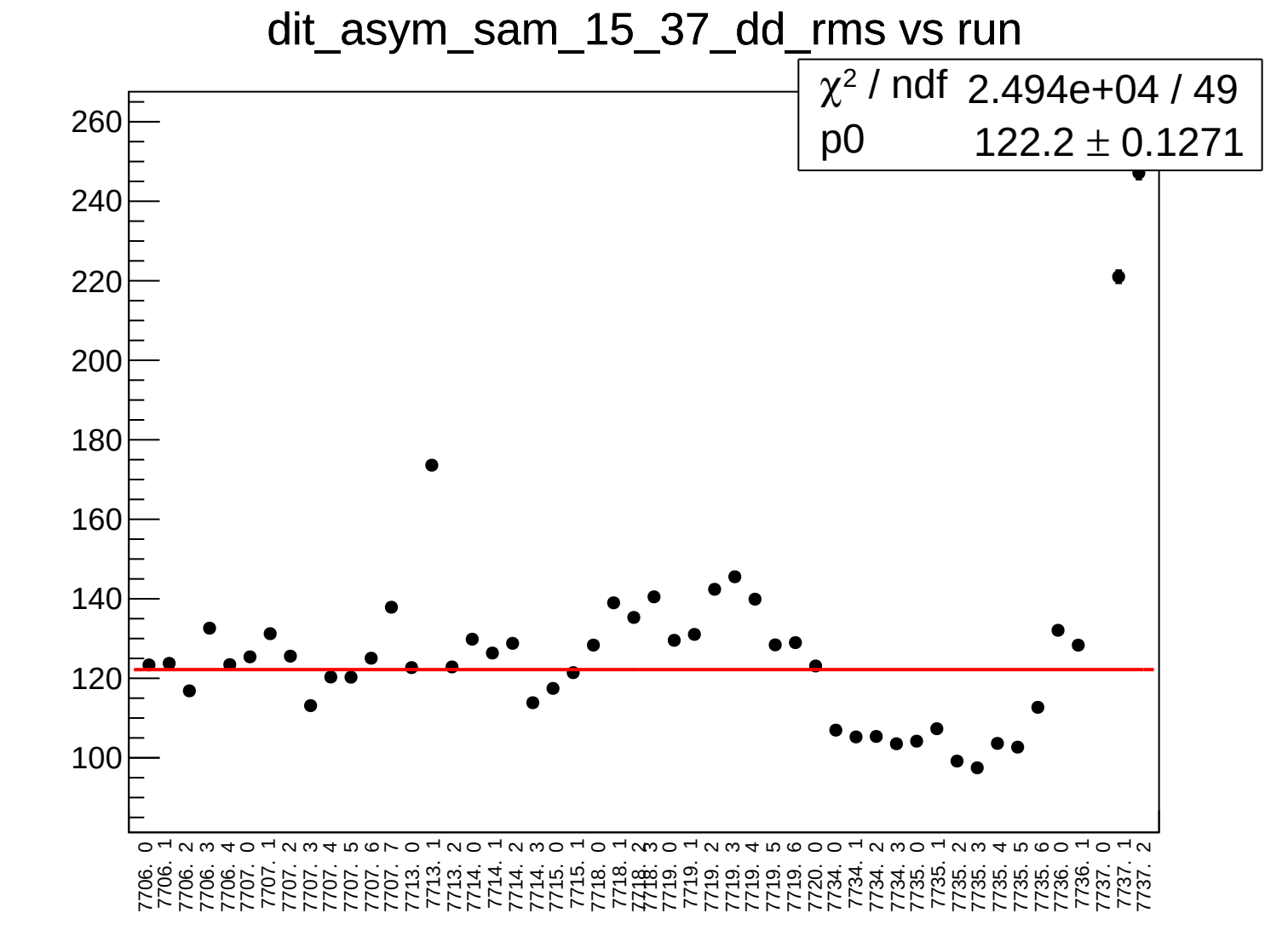
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 39.11 / 49
p0 −99.43 ± 179.8
6000
4000
2000
0
−2000
−4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −129.4
Std Dev 142.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.006718
Std Dev 0.8844
9
8
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 2.494e+04 / 49
p0 122.2 ± 0.1271
260
240
220
200
180
160
140
120
100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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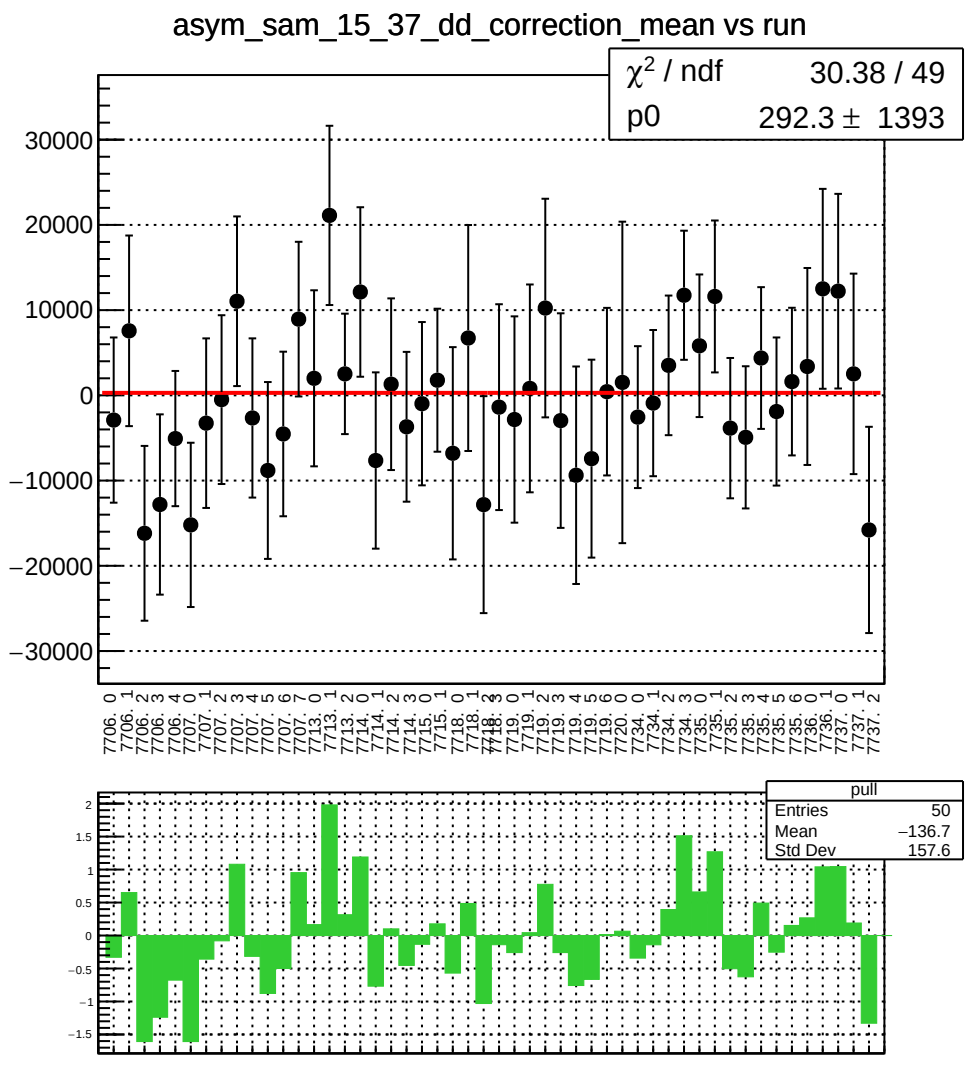
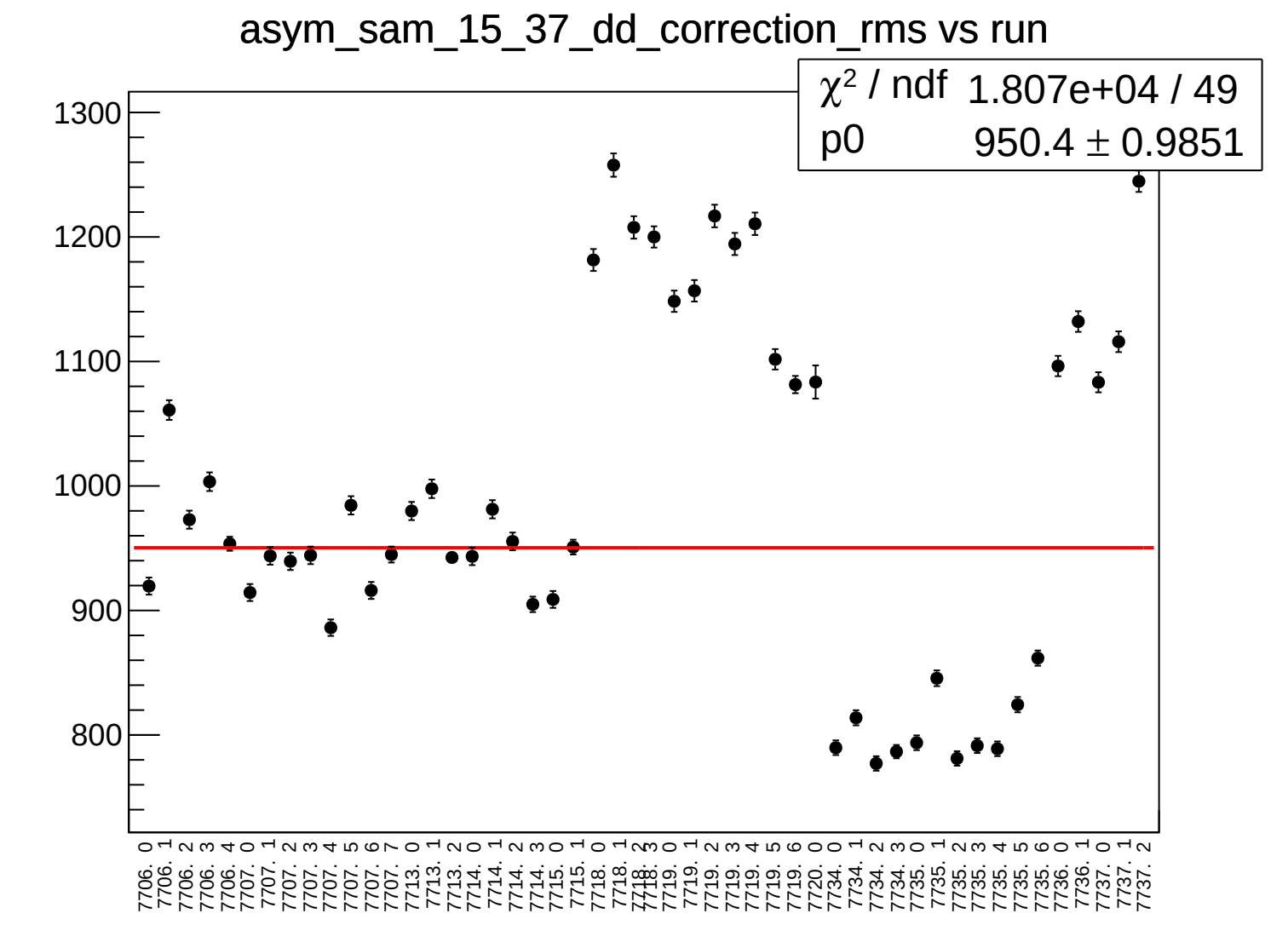
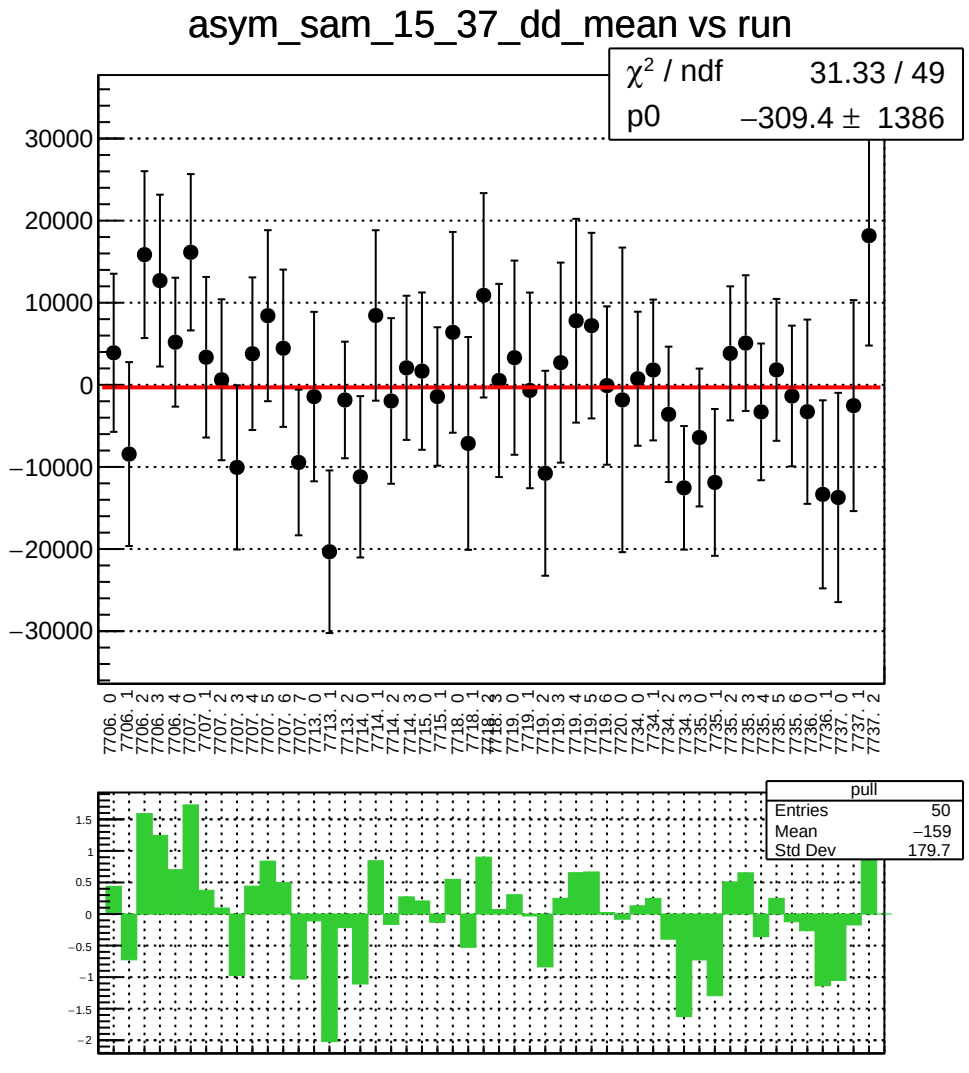
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 30.38 / 49
p0 292.3 ± 1393
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −136.7
Std Dev 157.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01581
Std Dev 0.7793
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.807e+04 / 49
p0 950.4 ± 0.9851
1300
1200
1100
1000
900
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_37_dd_mean vs run
χ² / ndf 31.33 / 49
p0 −309.4 ± 1386
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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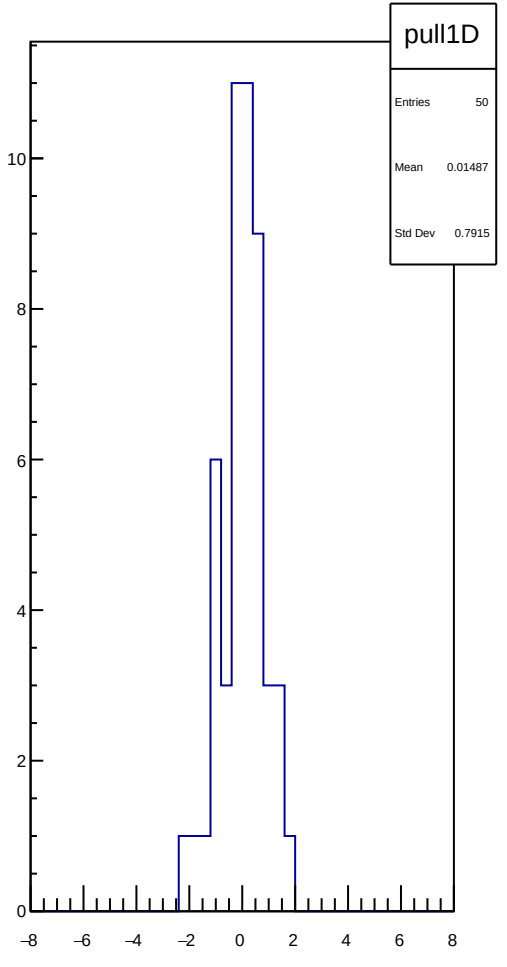
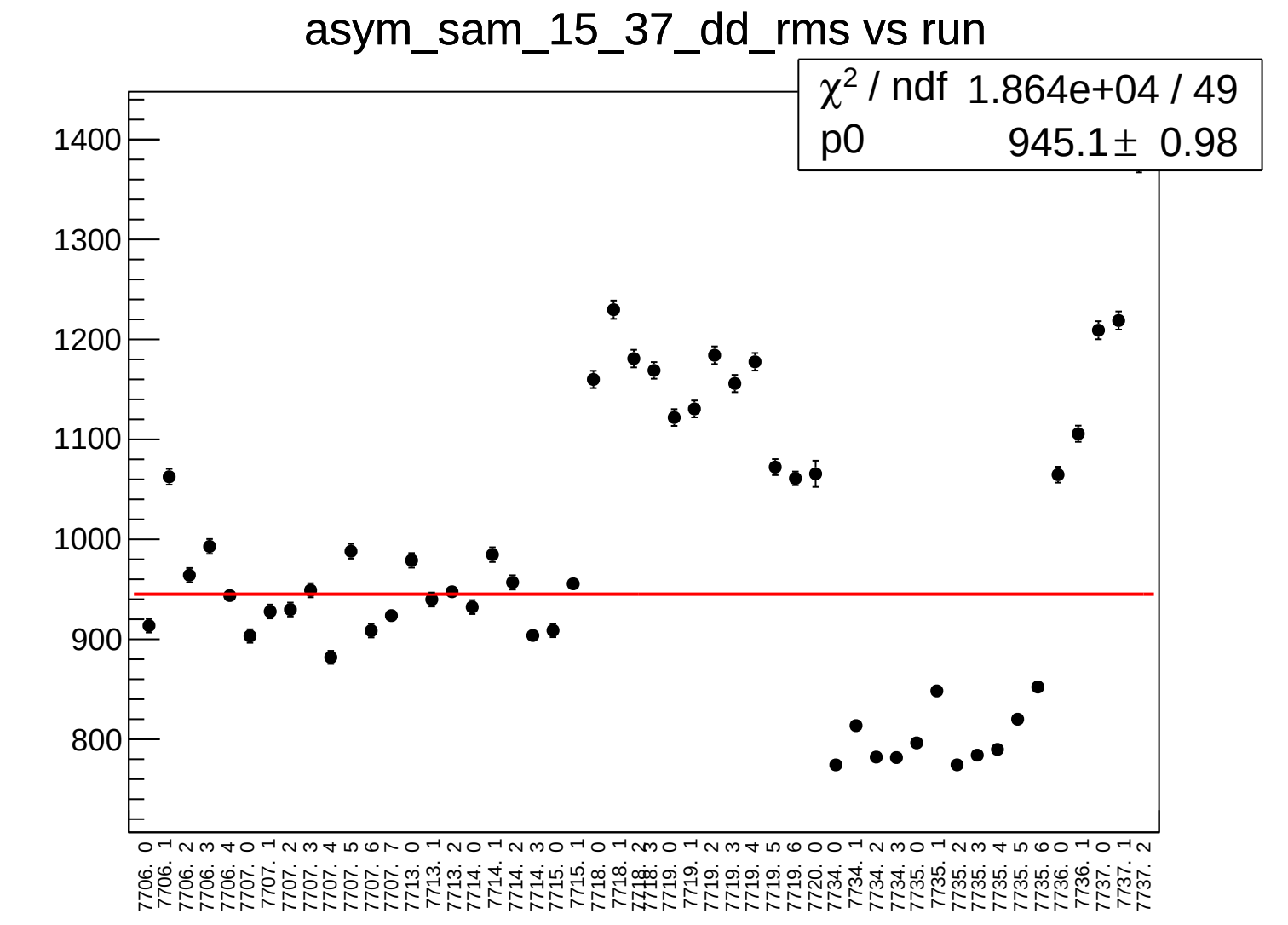
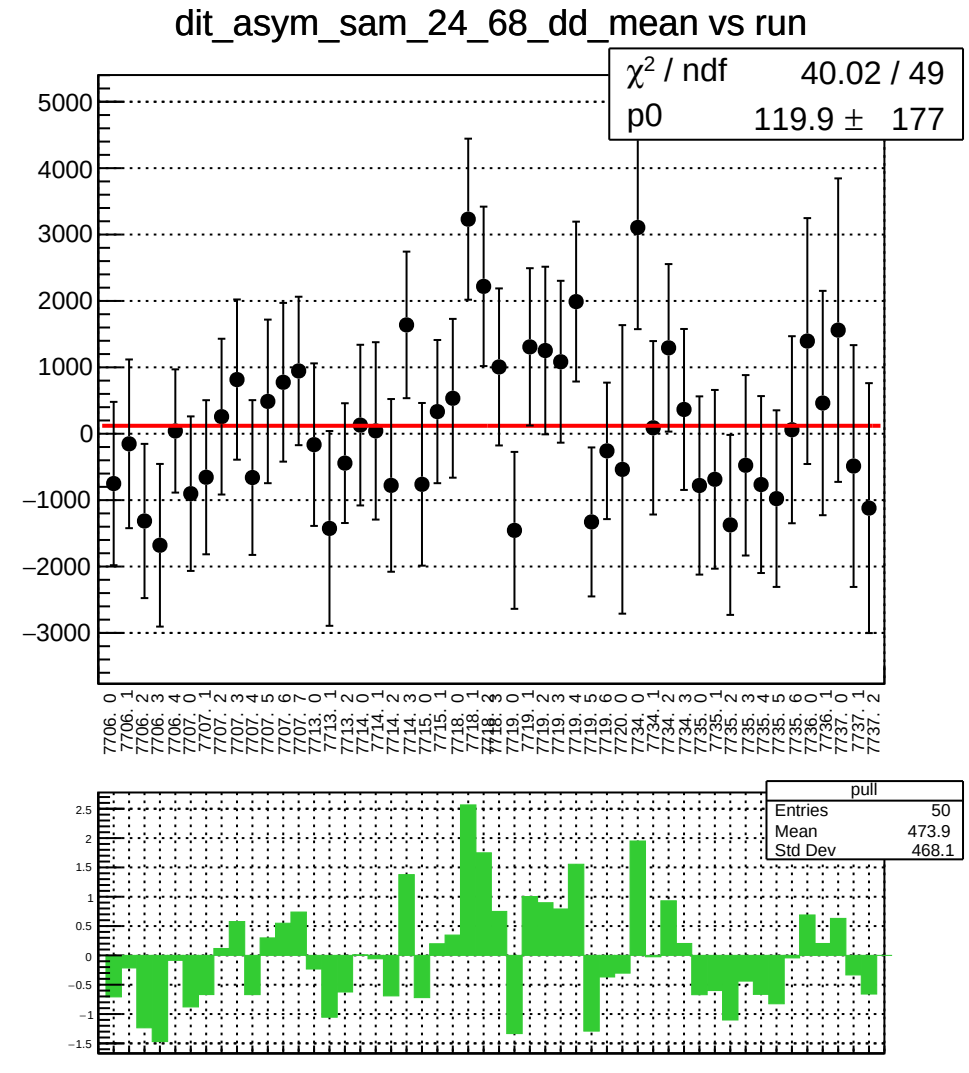
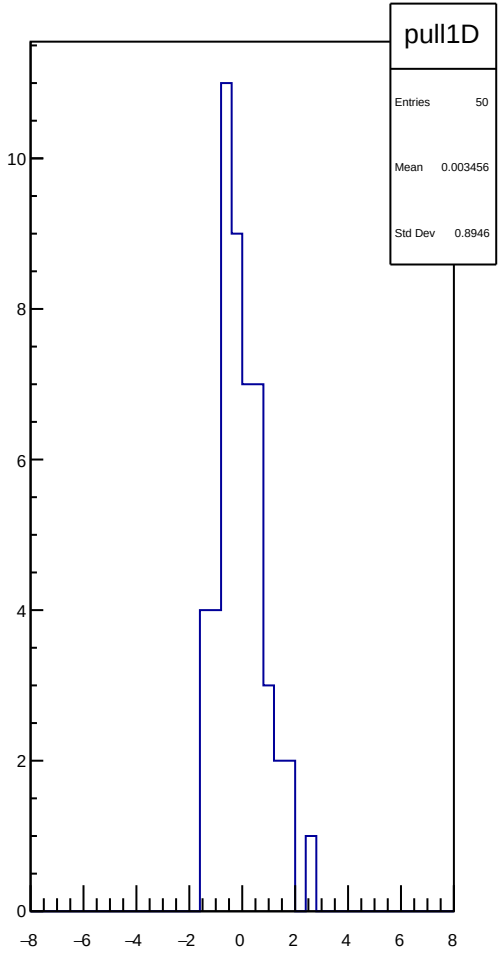
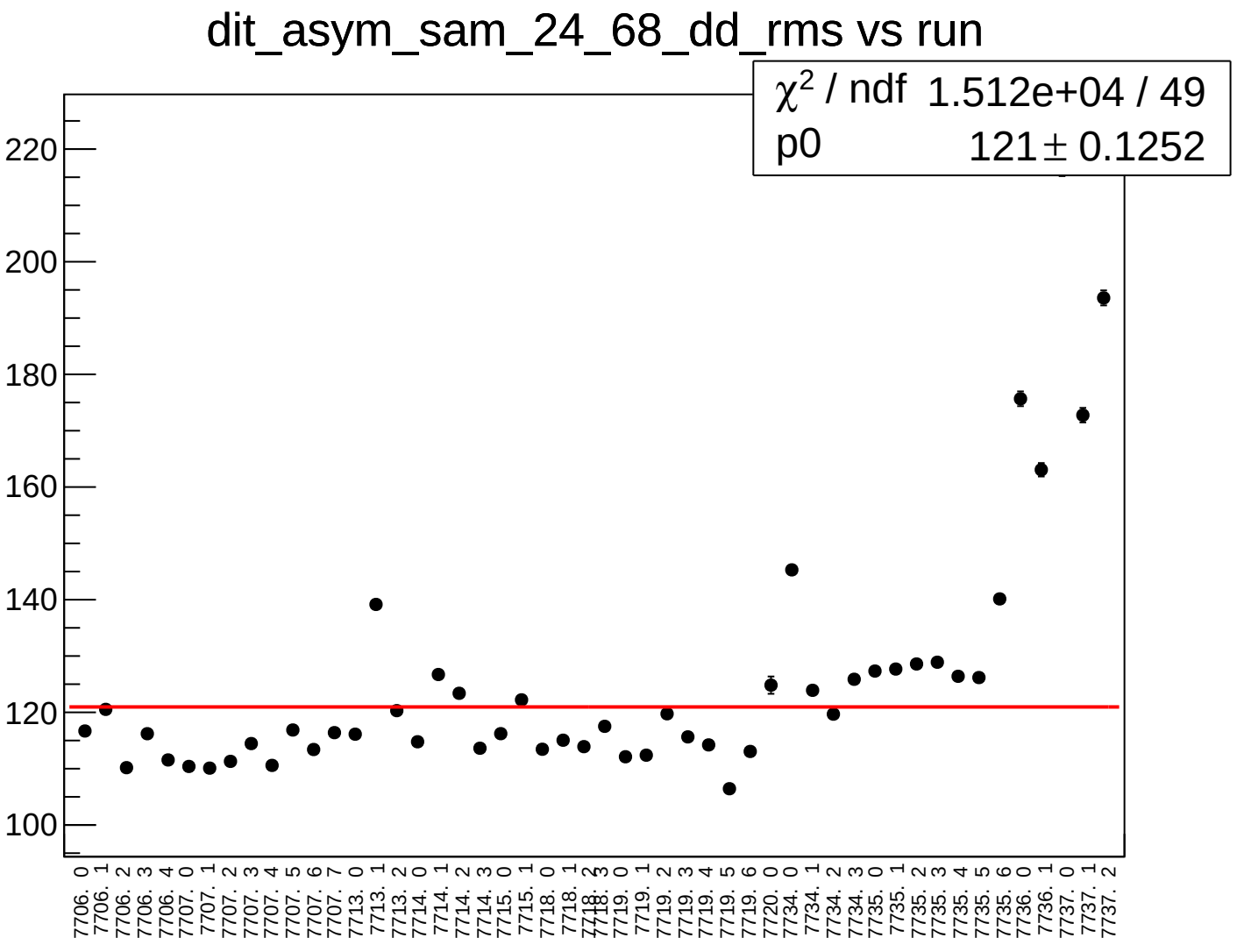
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −159
Std Dev 179.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.01487
Std Dev 0.7915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_rms vs run
χ² / ndf 1.864e+04 / 49
p0 945.1 ± 0.98
1400
1300
1200
1100
1000
900
800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 40.02 / 49
p0 119.9 ± 177
pull
Entries 50
Mean 473.9
Std Dev 468.1


pull1D
Entries 50
Mean 0.003456
Std Dev 0.8946


dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.512e+04 / 49
p0 121 ± 0.1252
220
200
180
160
140
120
100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
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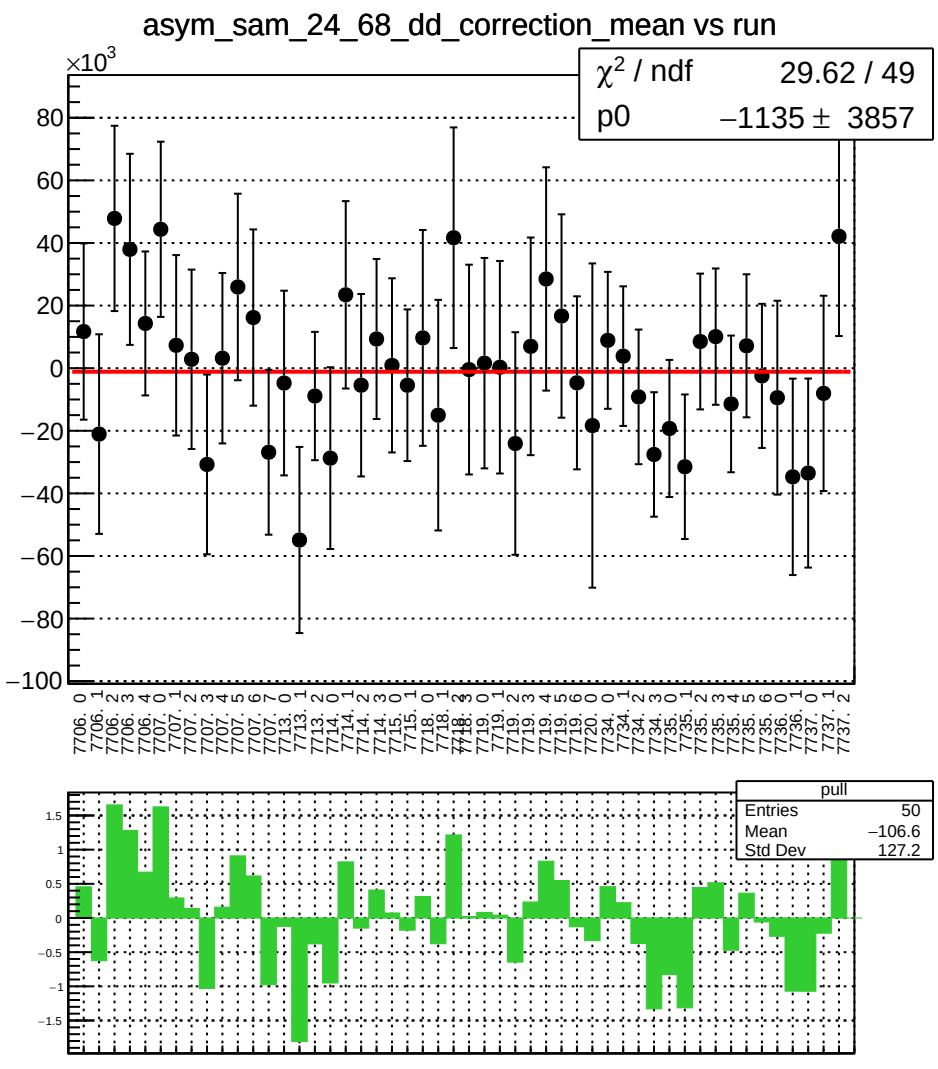
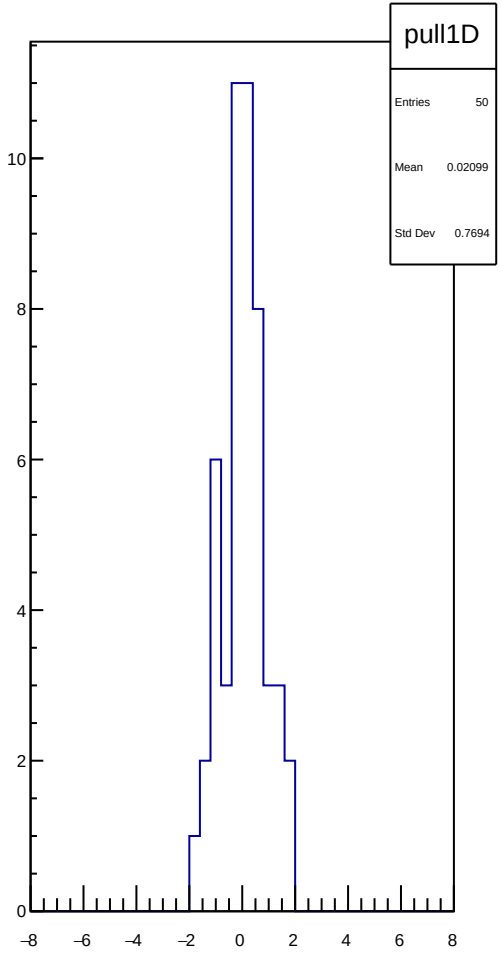
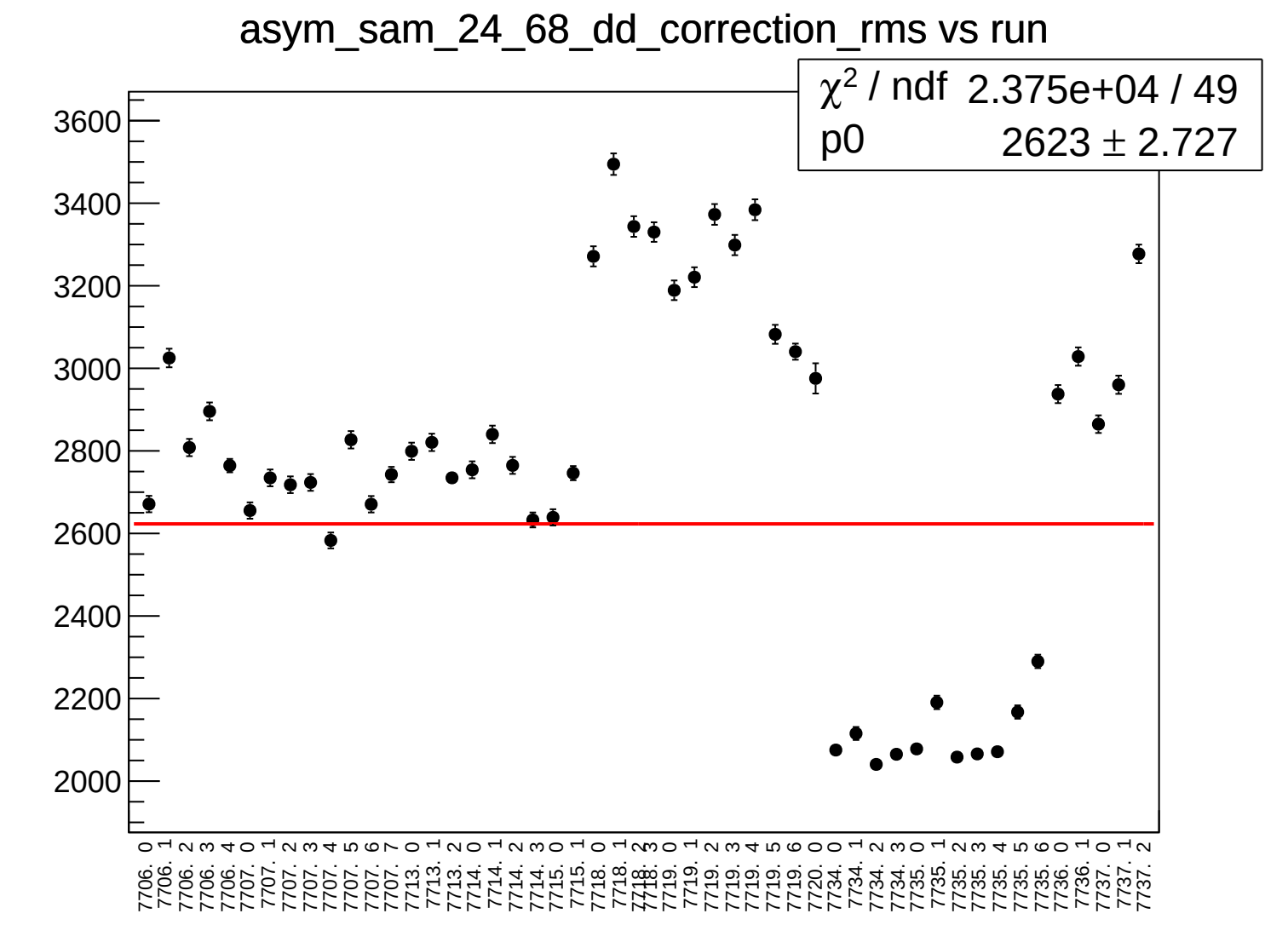
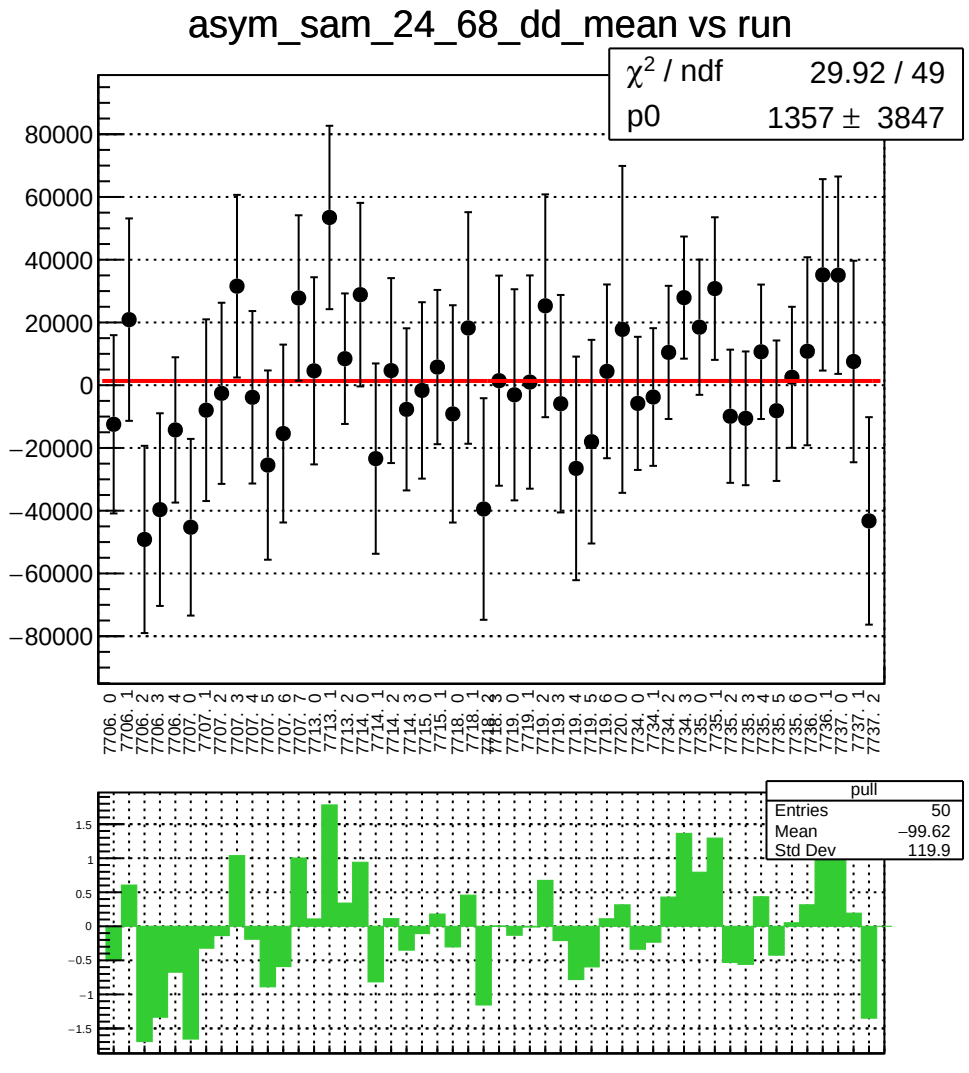
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

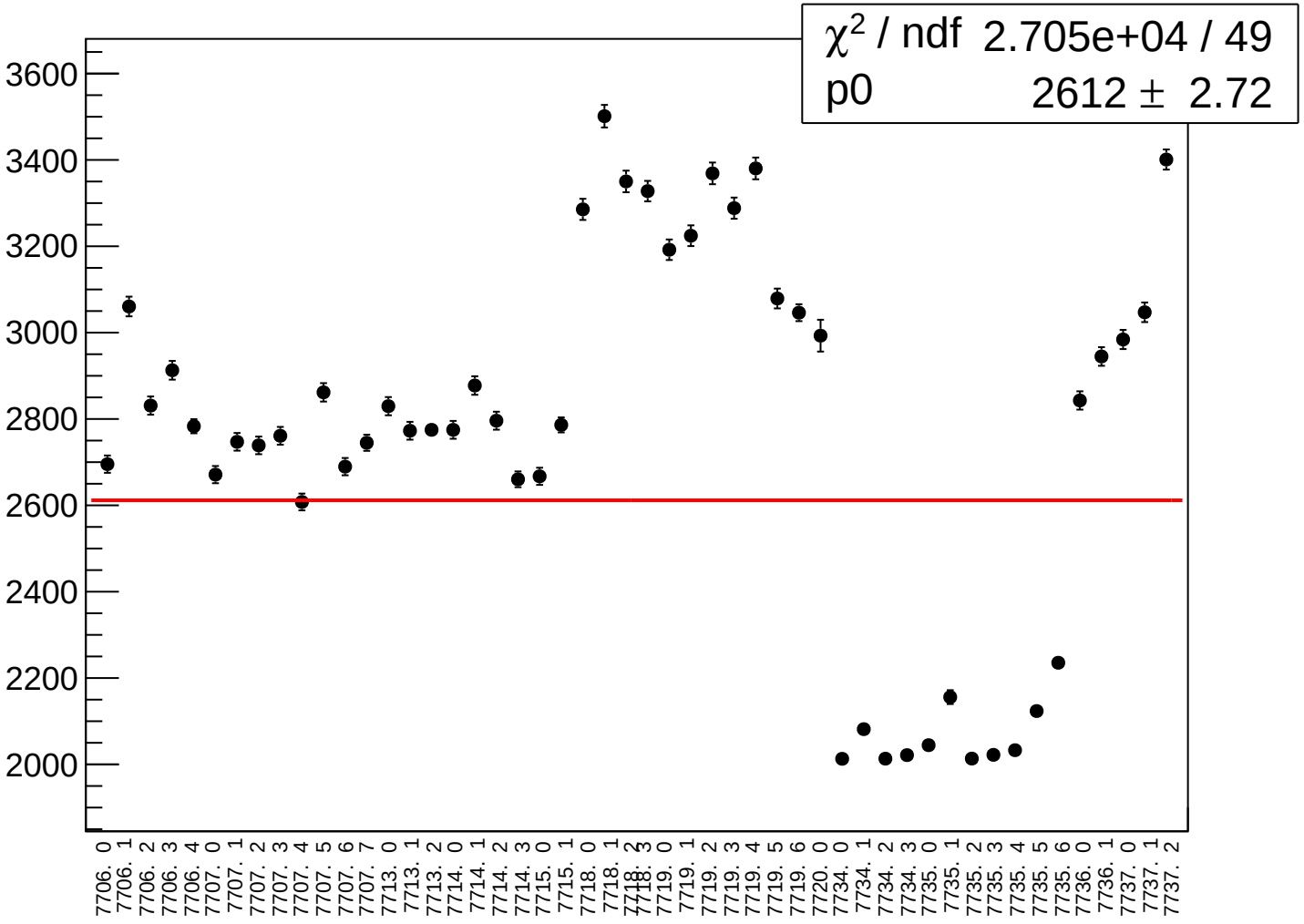

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 29.62 / 49
p0 −1135 ± 3857
×10³
pull
Entries 50
Mean −106.6
Std Dev 127.2

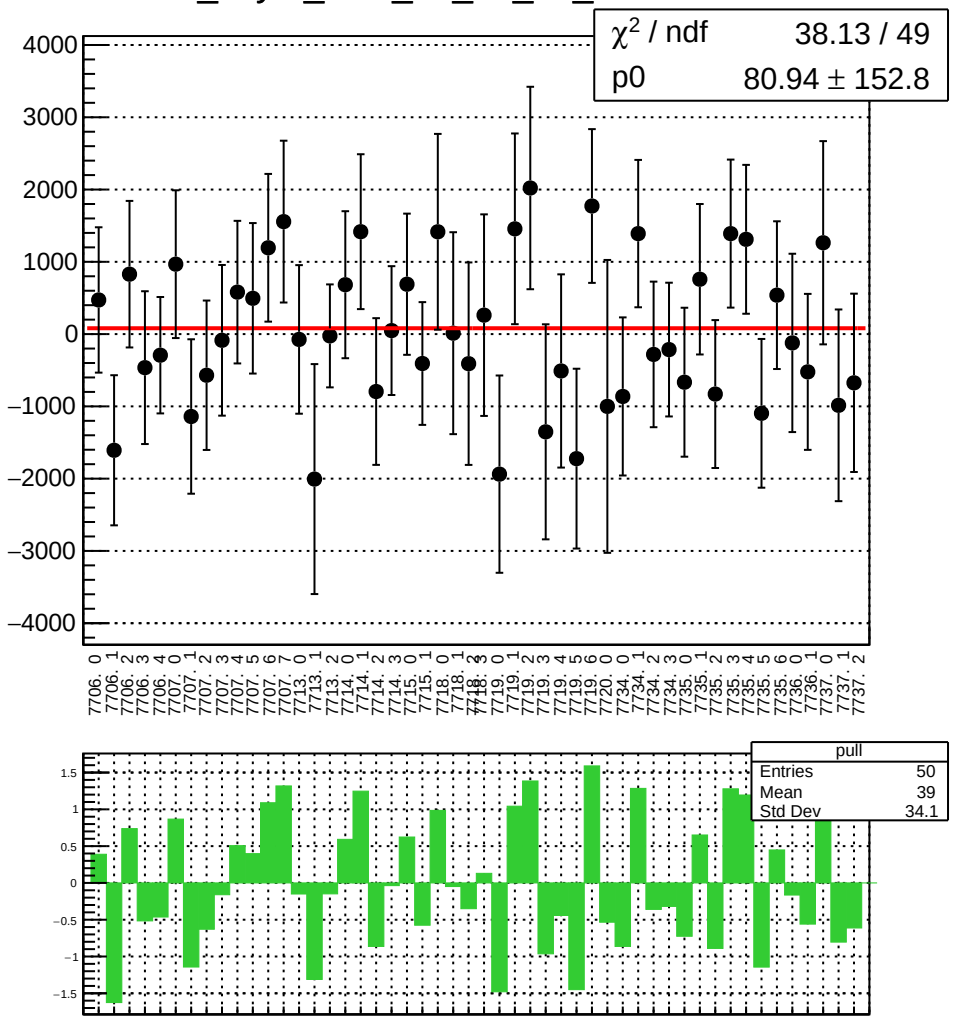

pull1D
Entries 50
Mean 0.02099
Std Dev 0.7694

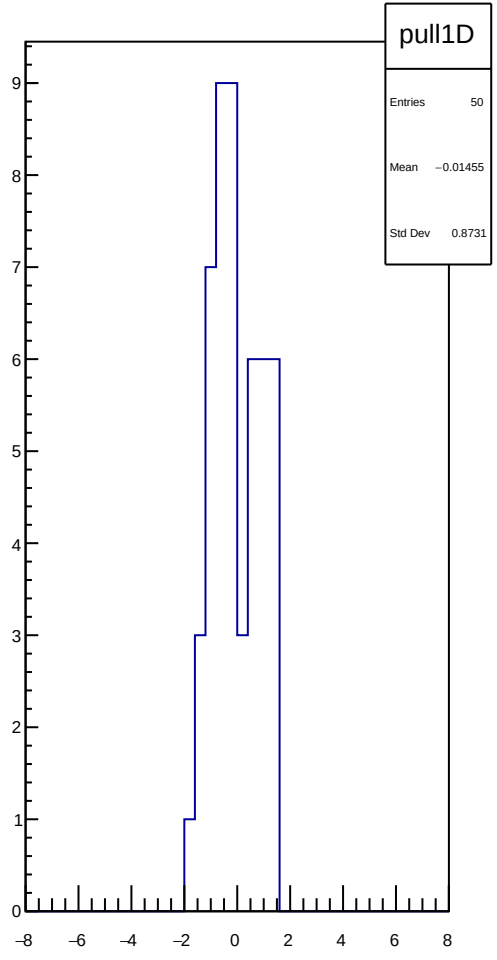

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2.375e+04 / 49
p0 2623 ± 2.727
3600
3400
3200
3000
2800
2600
2400
2200
2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

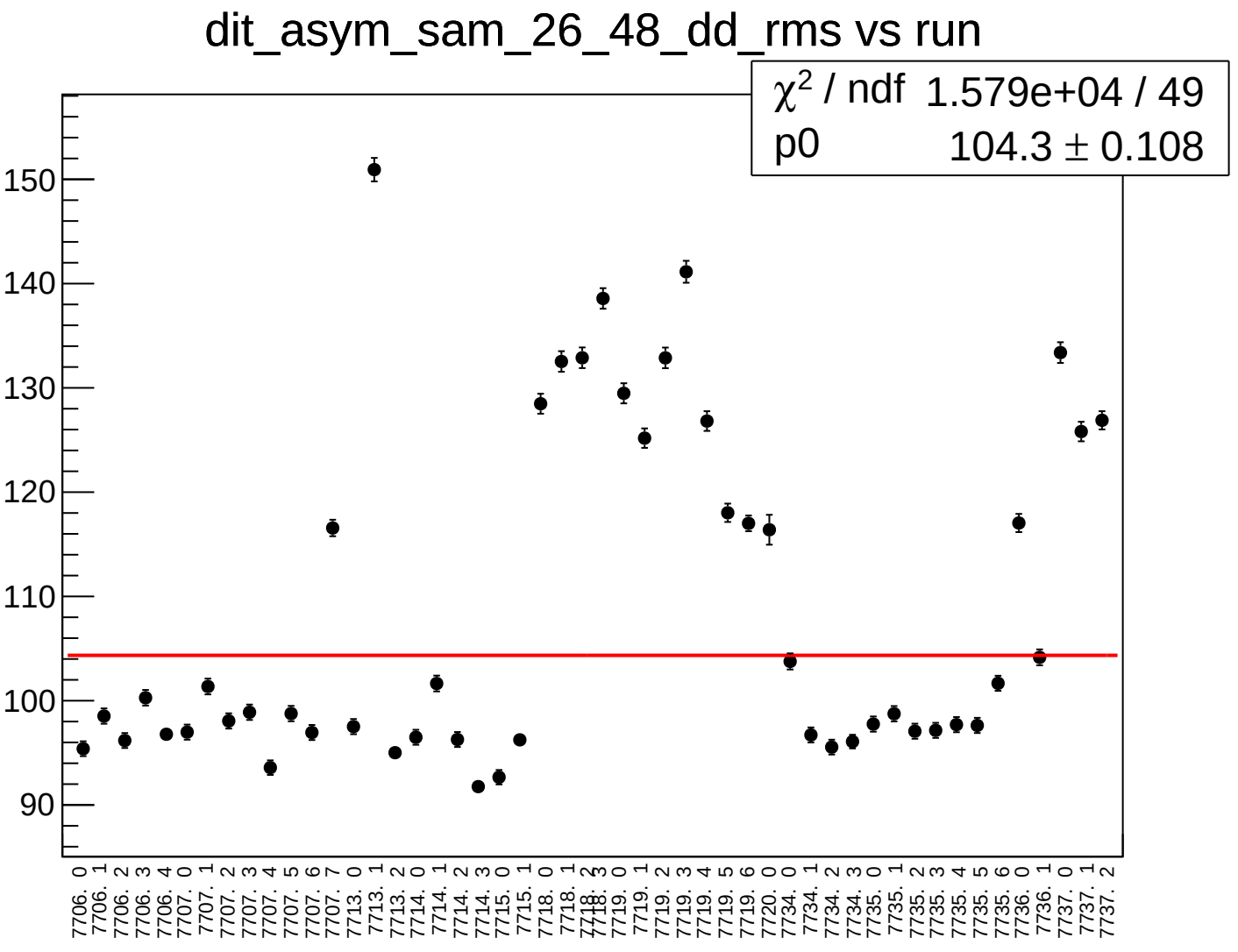

asym_sam_24_68_dd_mean vs run
χ² / ndf 29.92 / 49
p0 1357 ± 3847
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −99.62
Std Dev 119.9
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.02268
Std Dev 0.7733
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

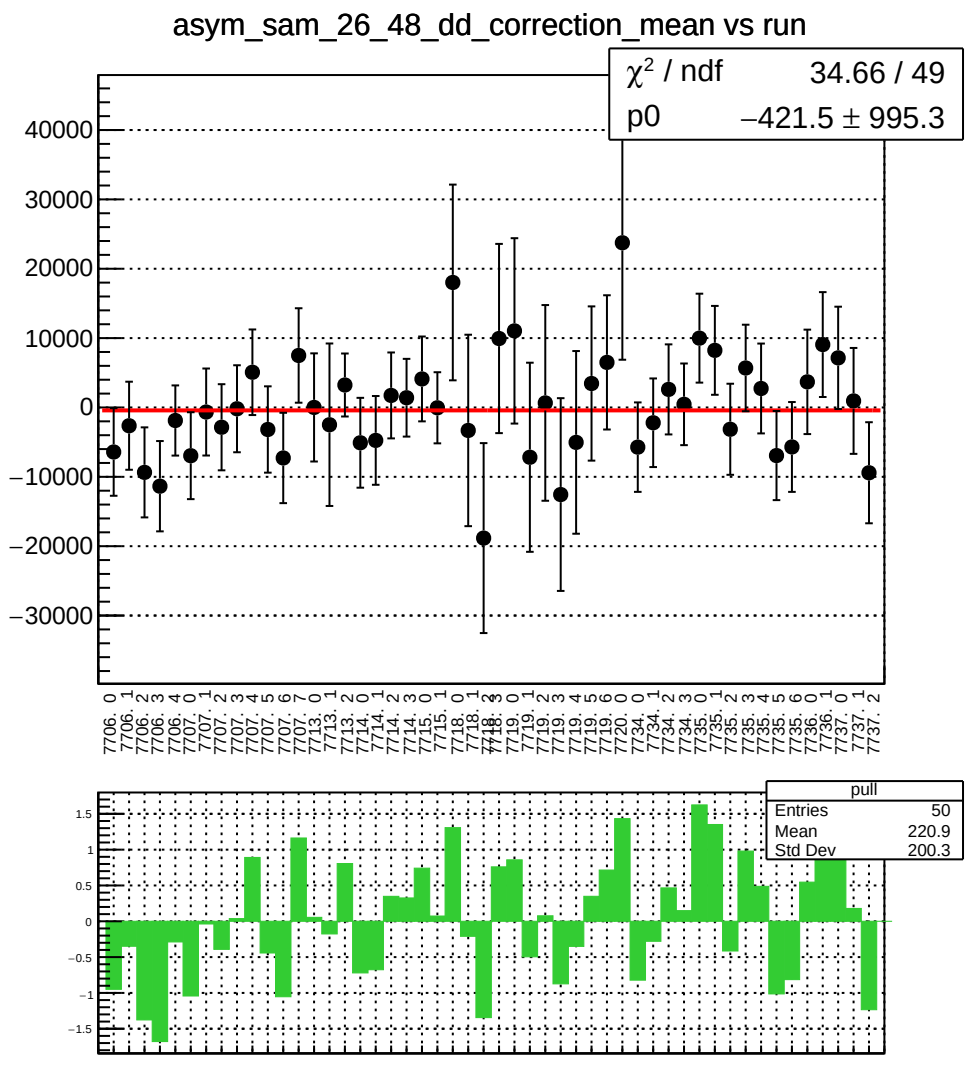
asym_sam_24_68_dd_rms vs run

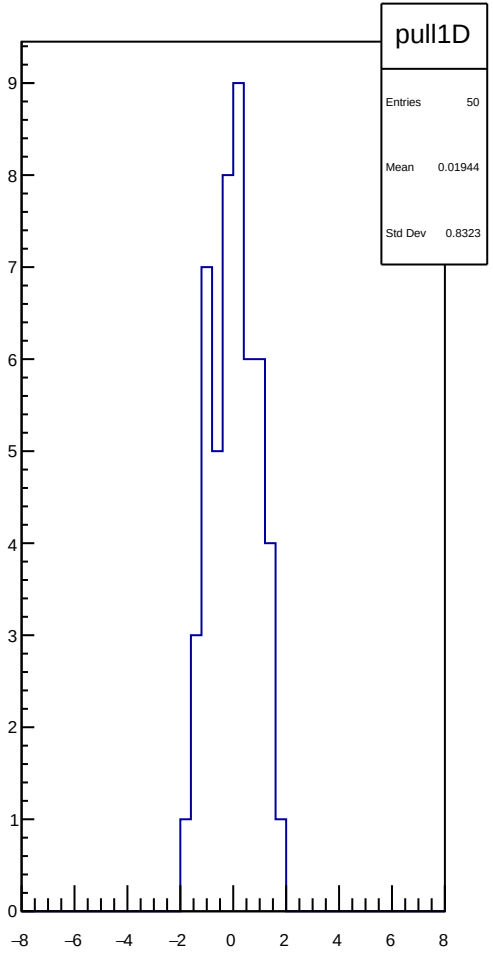


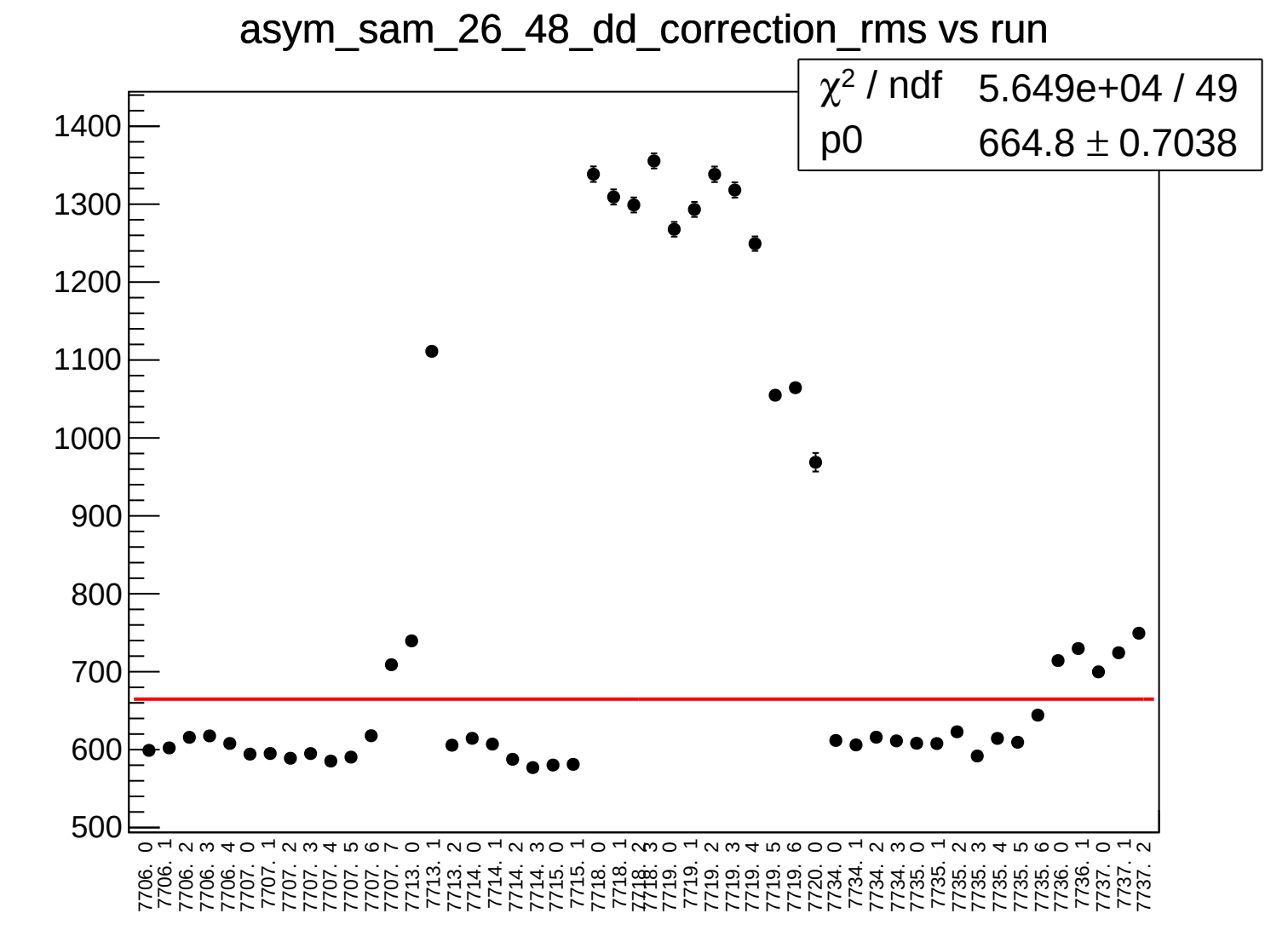

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 38.13 / 49
p0 80.94 ± 152.8
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 39
Std Dev 34.1
1.5
1
0.5
0
−0.5
−1
−1.5

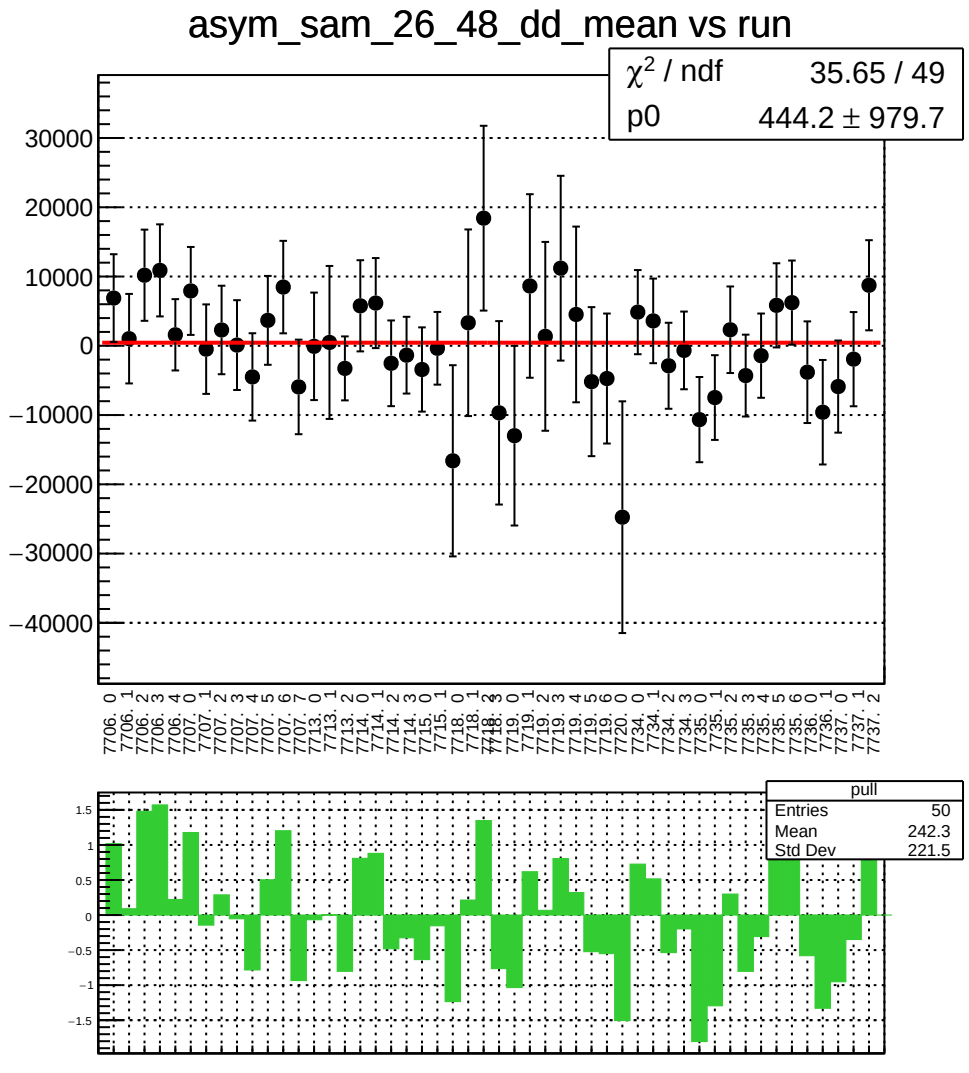

pull1D
Entries 50
Mean −0.01455
Std Dev 0.8731
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

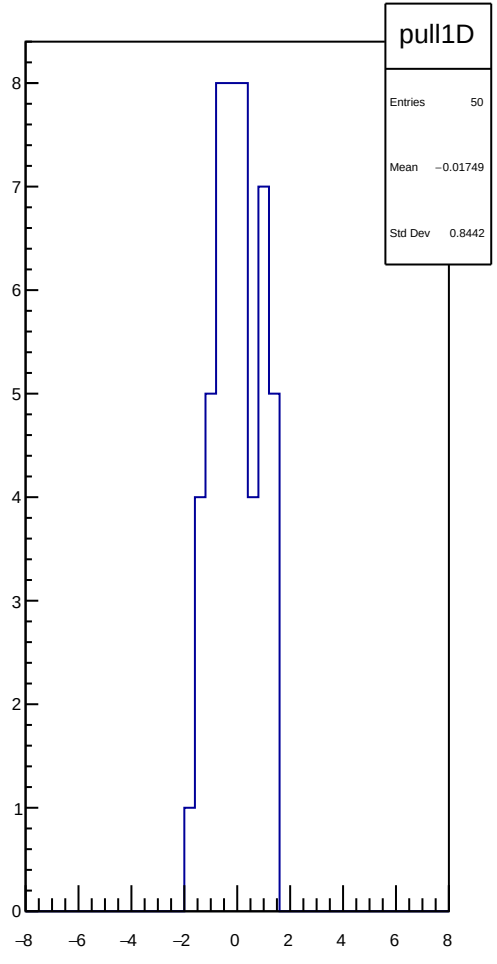

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.579e+04 / 49
p0 104.3 ± 0.108
150
140
130
120
110
100
90
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

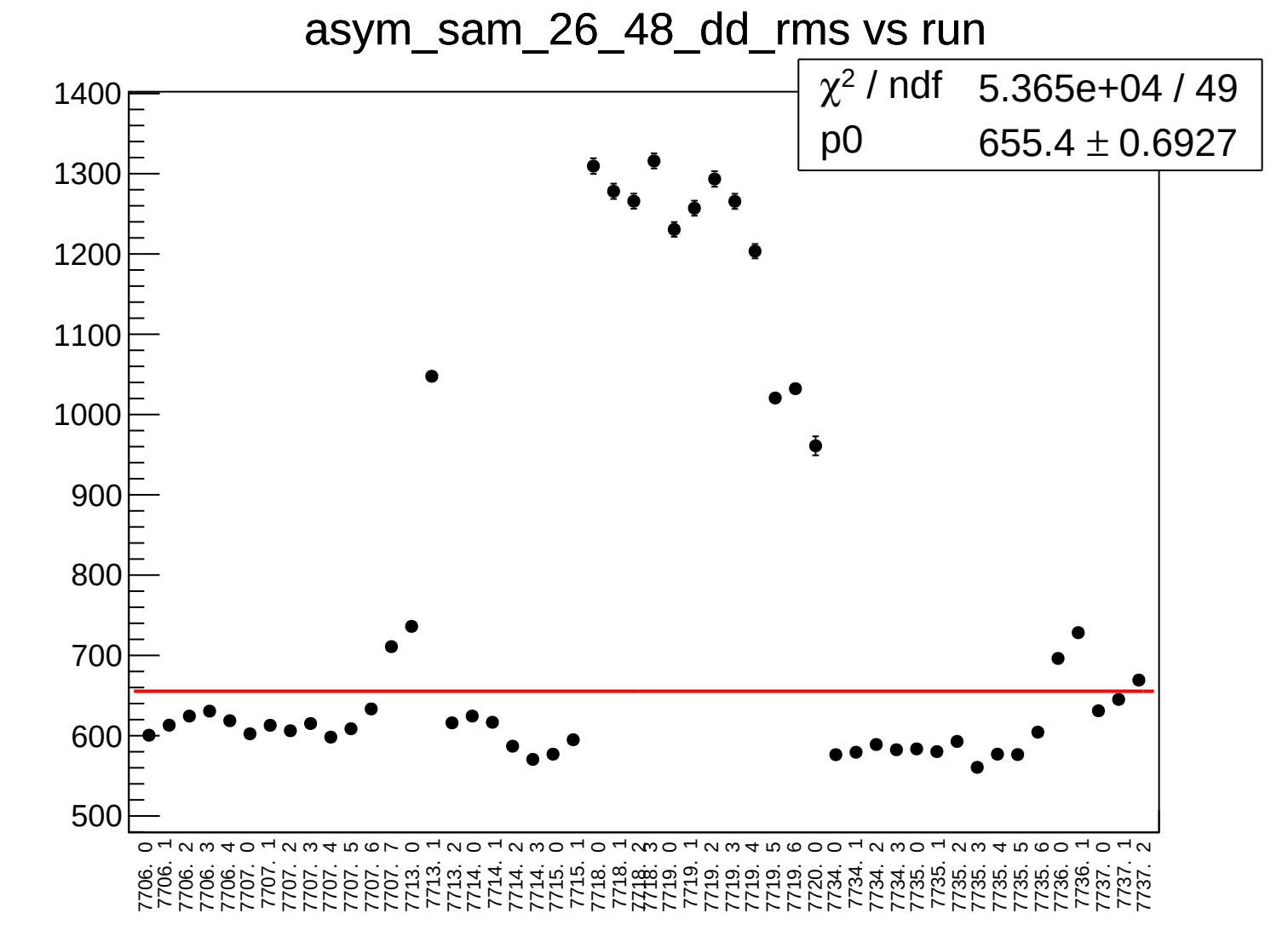

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 34.66 / 49
p0 −421.5 ± 995.3
40000
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 220.9
Std Dev 200.3
1.5
1
0.5
0
−0.5
−1
−1.5

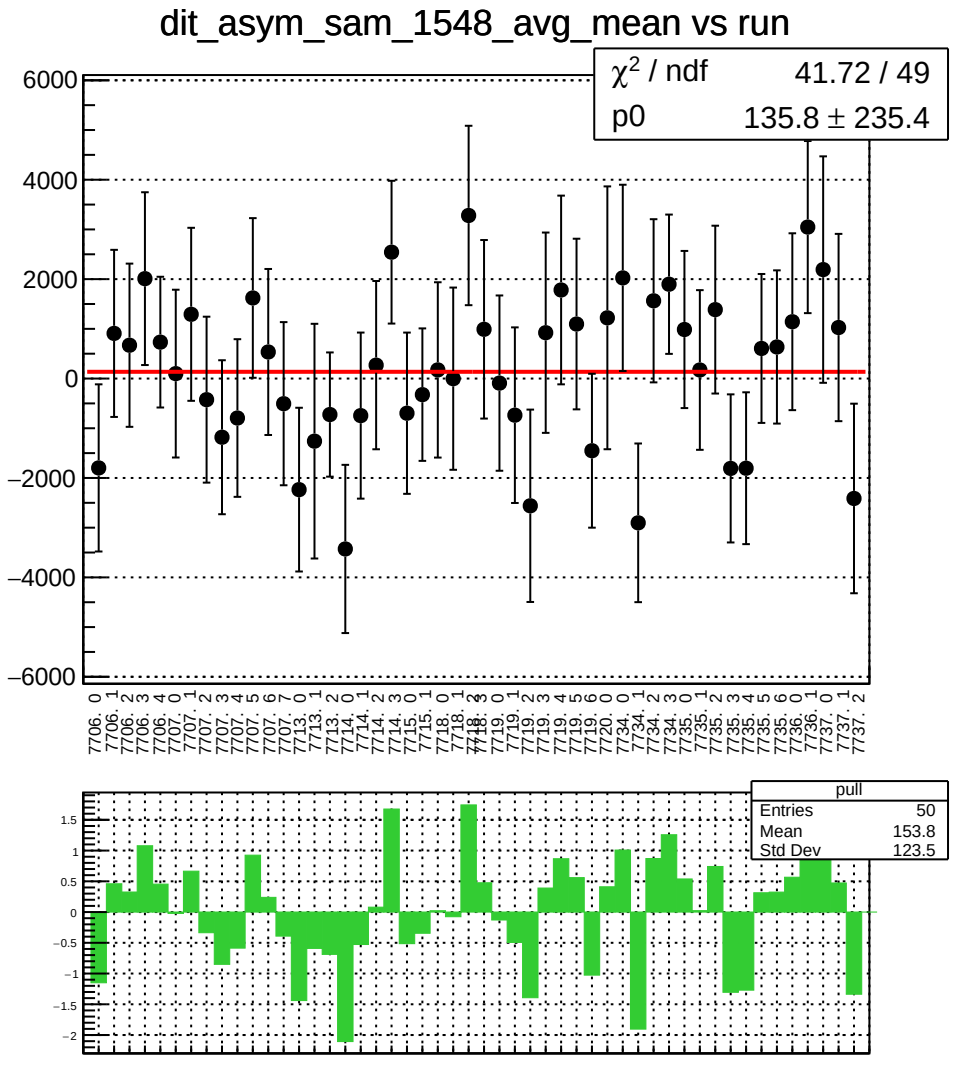

pull1D
Entries 50
Mean 0.01944
Std Dev 0.8323
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

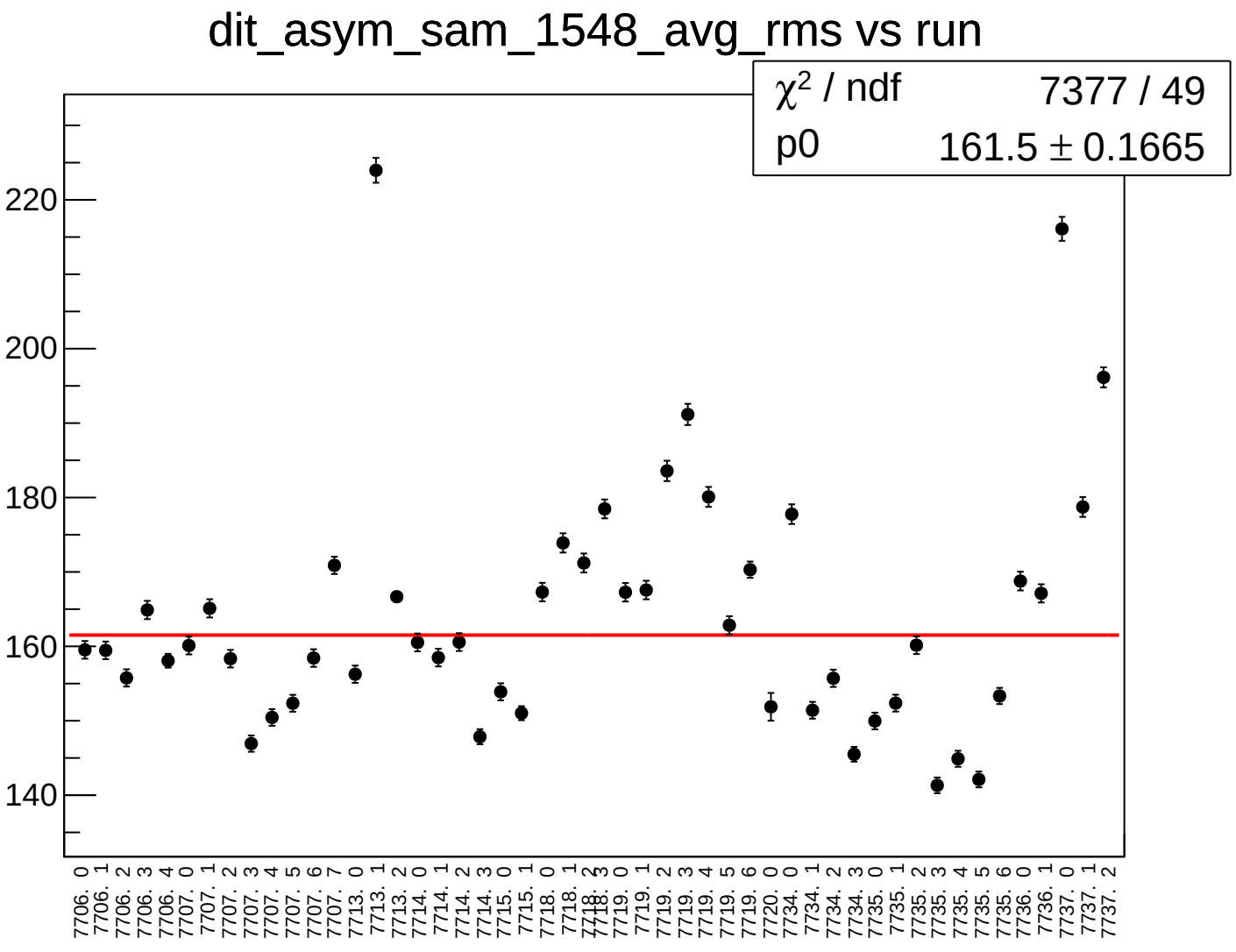

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 5.649e+04 / 49
p0 664.8 ± 0.7038
1400
1300
1200
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

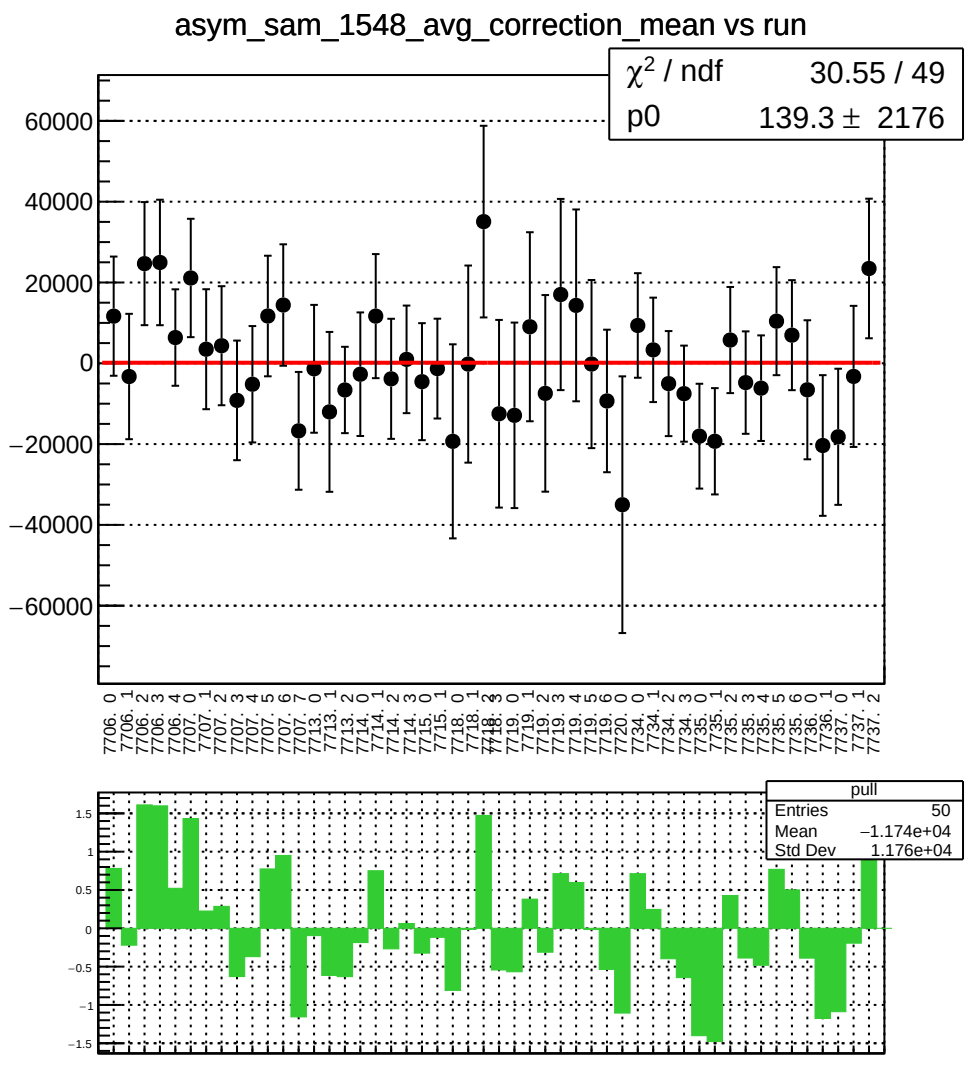

asym_sam_26_48_dd_mean vs run
χ^2 / ndf 35.65 / 49
p0 444.2 ± 979.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 242.3
Std Dev 221.5
1.5
1
0.5
0
−0.5
−1
−1.5

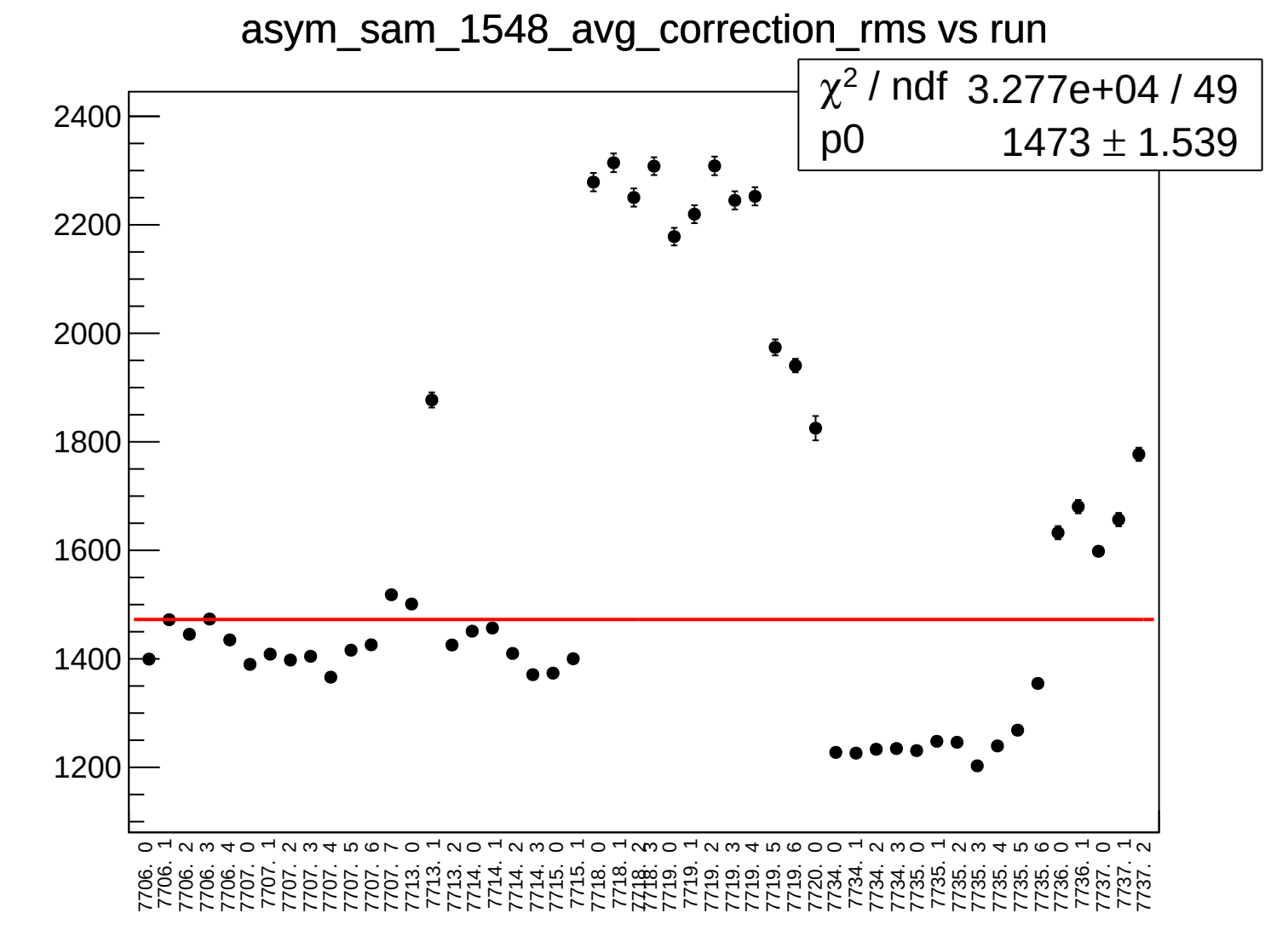

pull1D
Entries 50
Mean −0.01749
Std Dev 0.8442
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

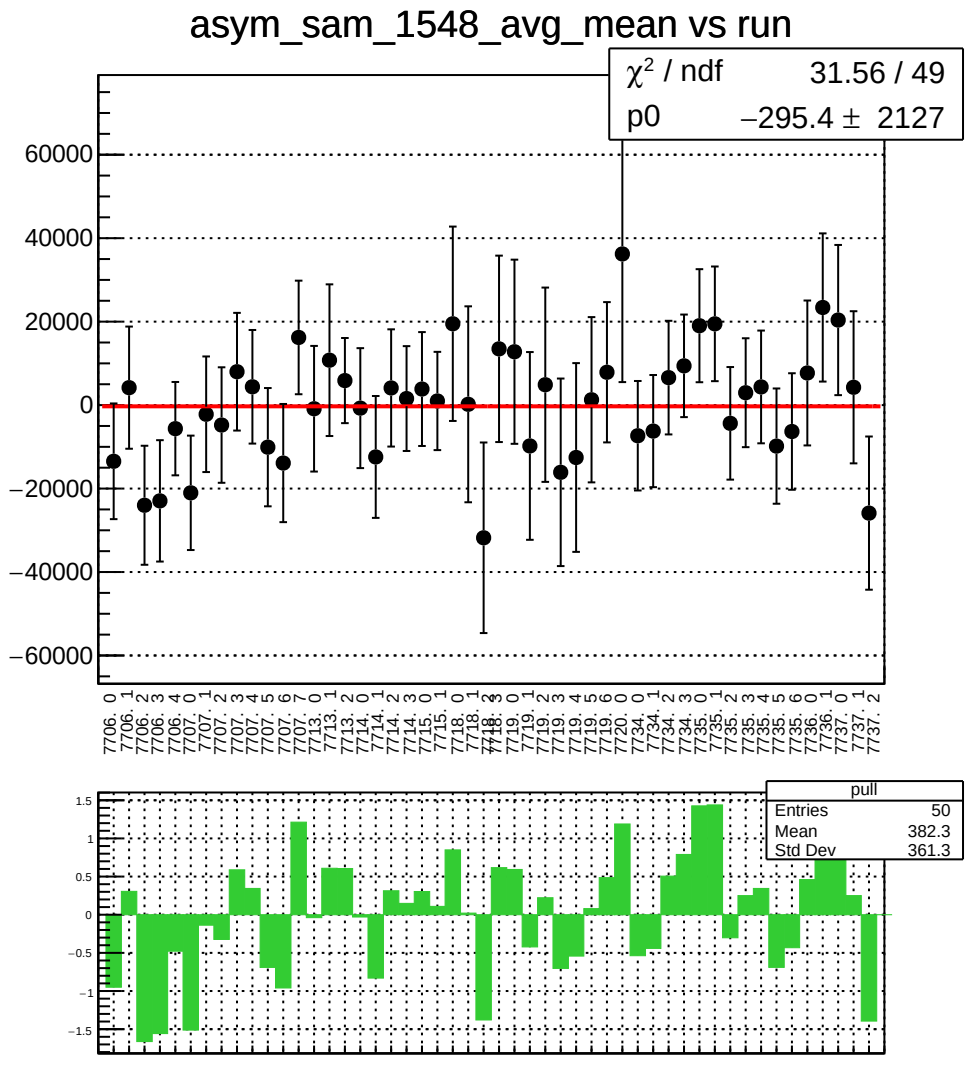

asym_sam_26_48_dd_rms vs run
χ² / ndf 5.365e+04 / 49
p0 655.4 ± 0.6927
1400
1300
1200
1100
1000
900
800
700
600
500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

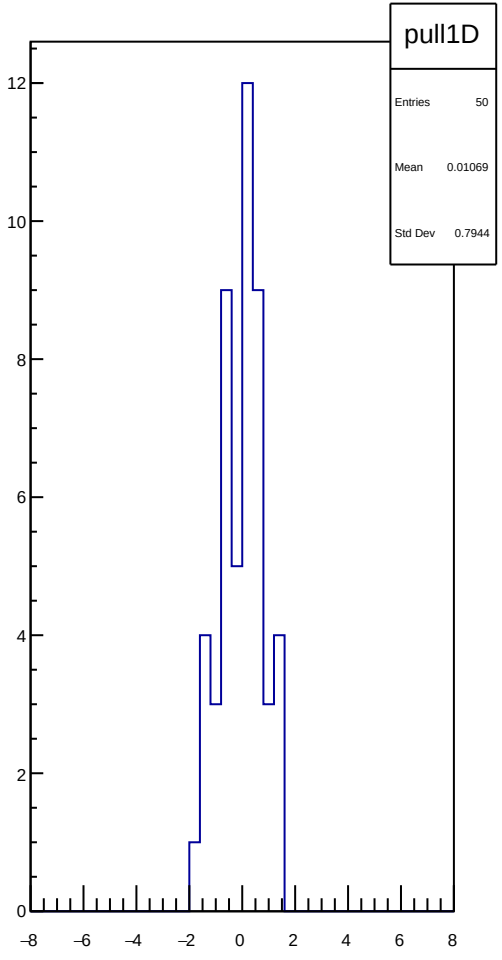

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 41.72 / 49
p0 135.8 ± 235.4
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 153.8
Std Dev 123.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.01183
Std Dev 0.9134
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

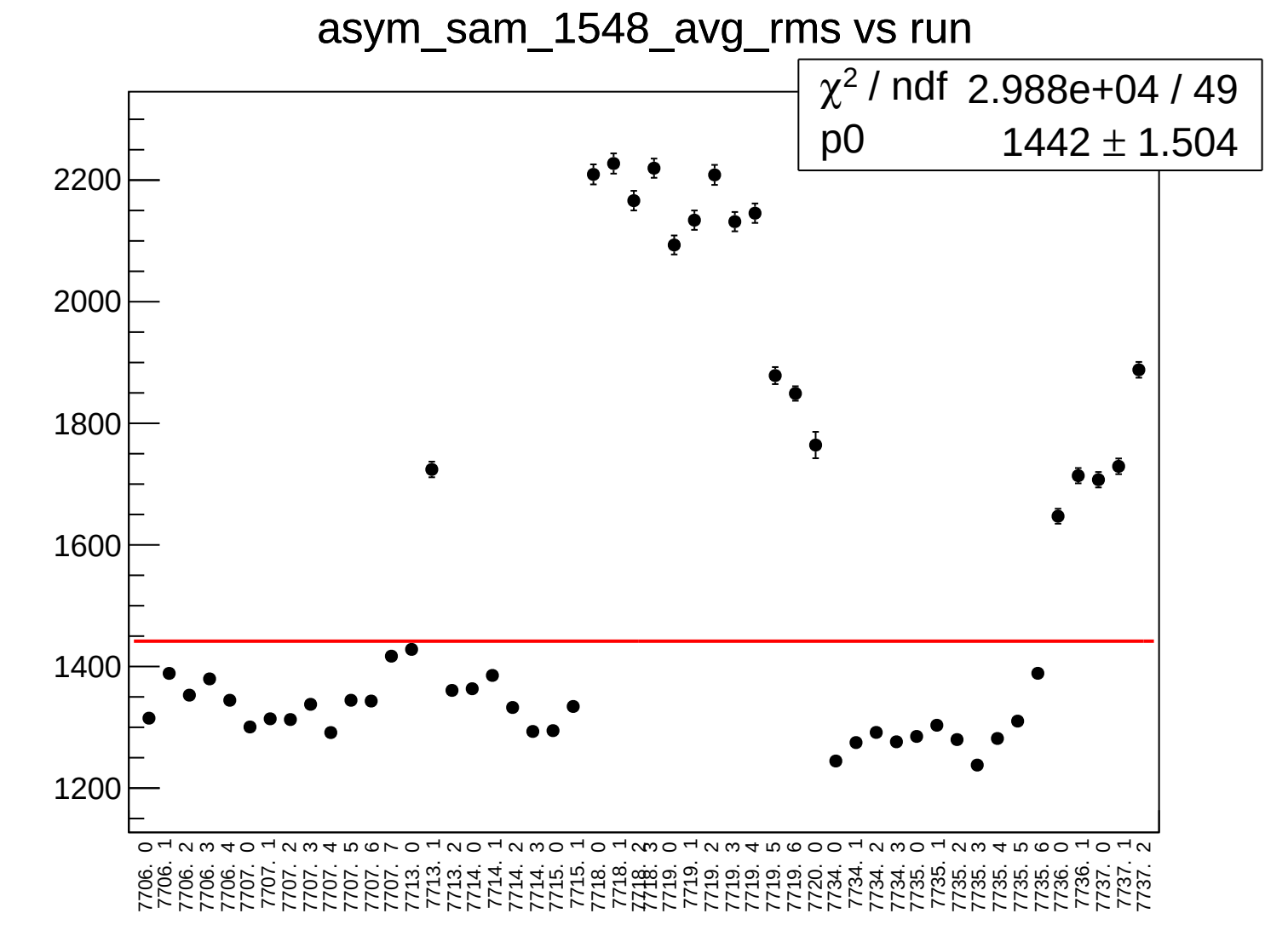

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 7377 / 49
p0 161.5 ± 0.1665
220
200
180
160
140
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

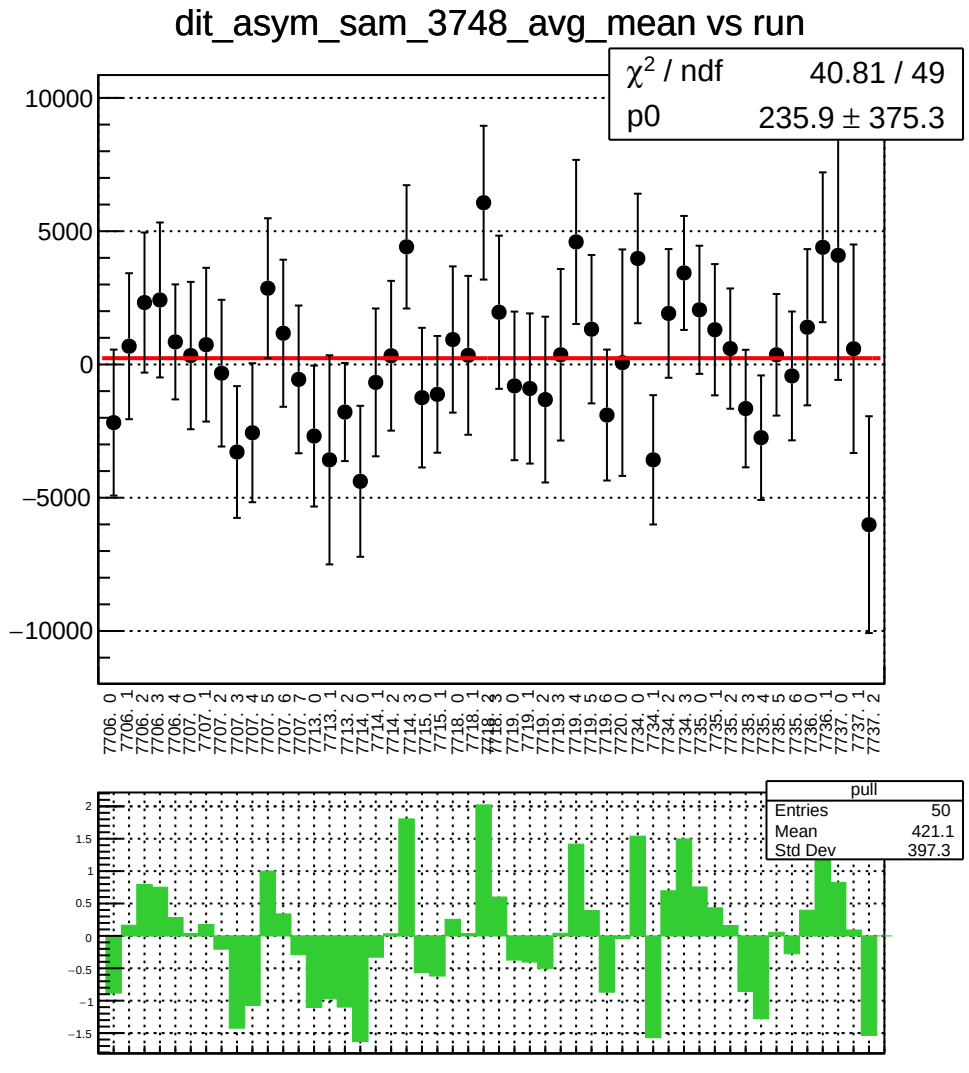

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 30.55 / 49
p0 139.3 ± 2176
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −1.174e+04
Std Dev 1.176e+04
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.0003011
Std Dev 0.7817
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

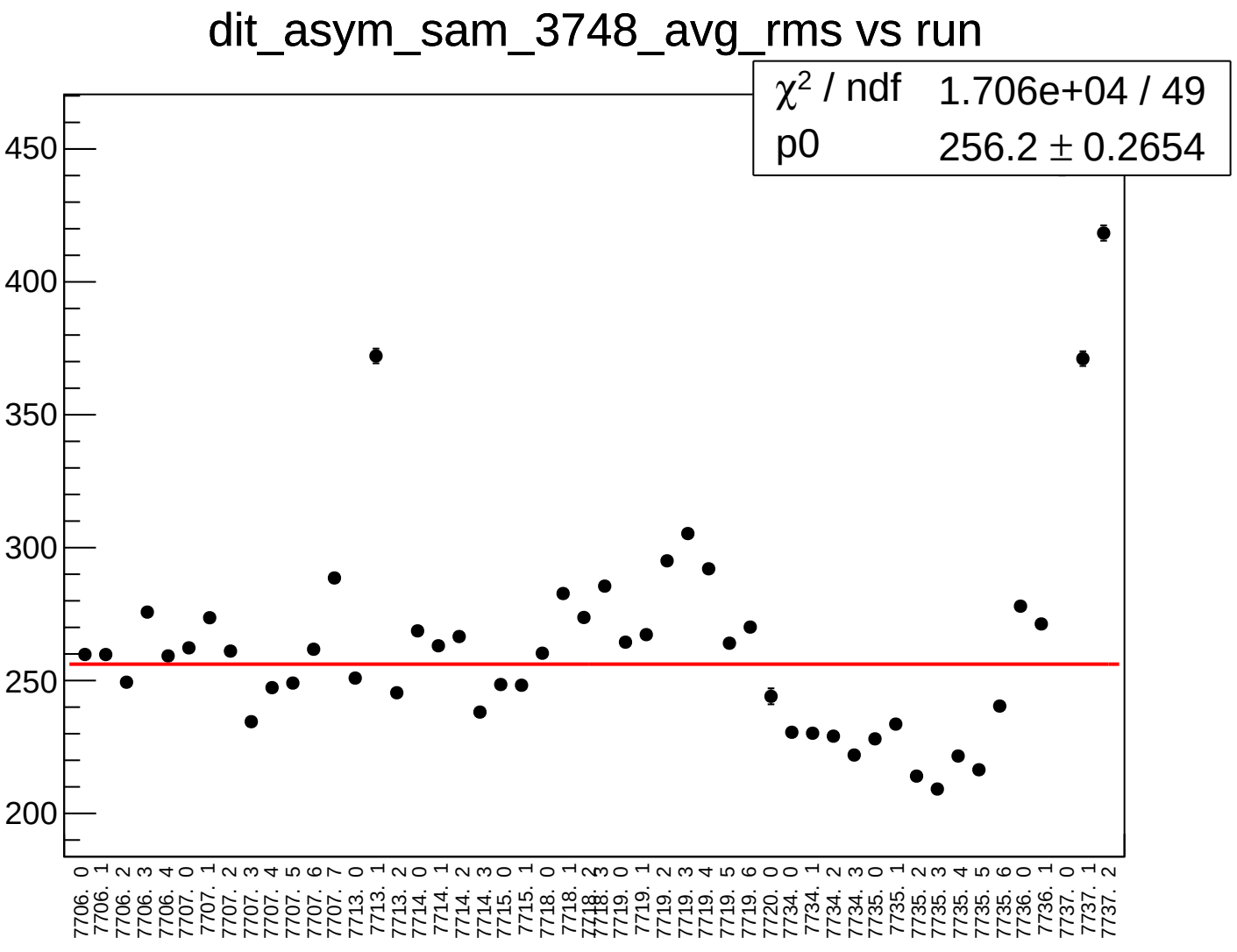

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 3.277e+04 / 49
p0 1473 ± 1.539
2400
2200
2000
1800
1600
1400
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

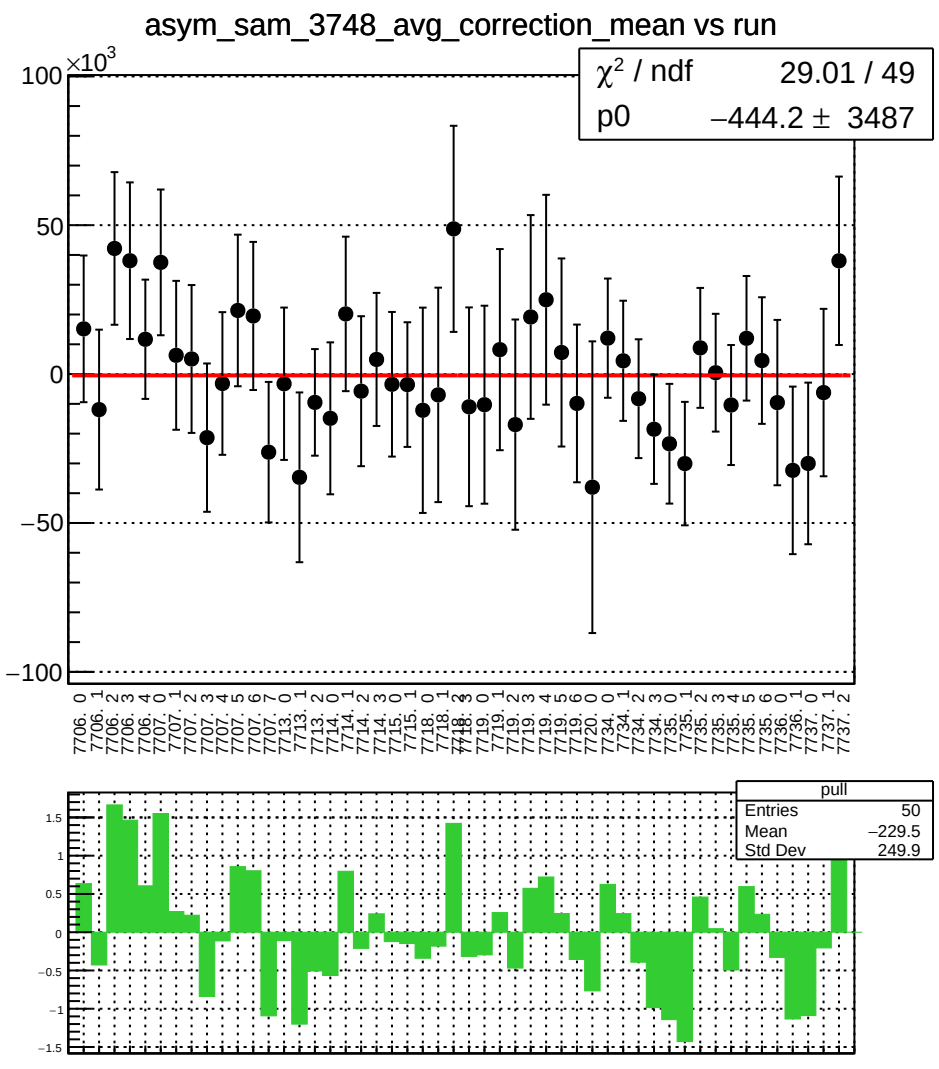

asym_sam_1548_avg_mean vs run
χ² / ndf 31.56 / 49
p0 −295.4 ± 2127
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 382.3
Std Dev 361.3
1.5
1
0.5
0
−0.5
−1
−1.5

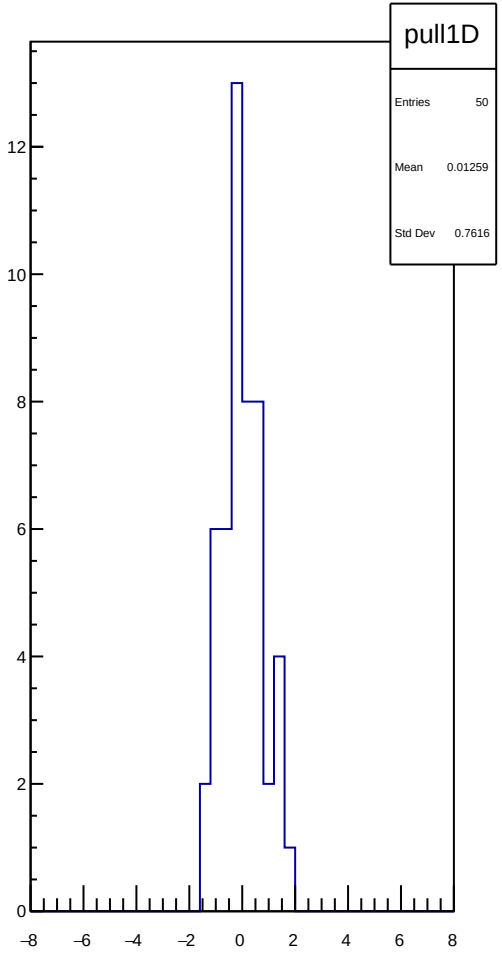

pull1D
Entries 50
Mean 0.01069
Std Dev 0.7944
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

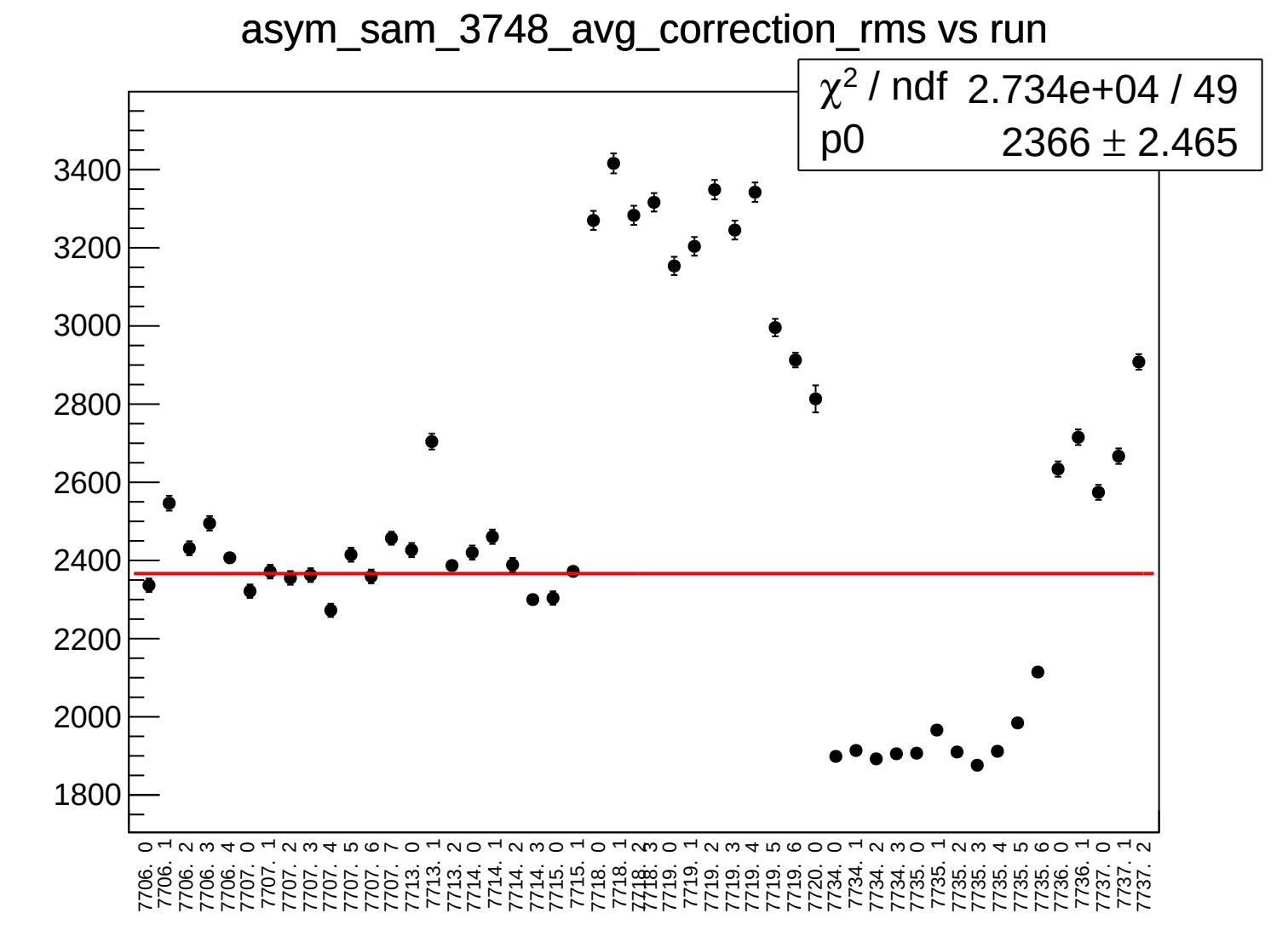

asym_sam_1548_avg_rms vs run
χ² / ndf 2.988e+04 / 49
p0 1442 ± 1.504
2200
2000
1800
1600
1400
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

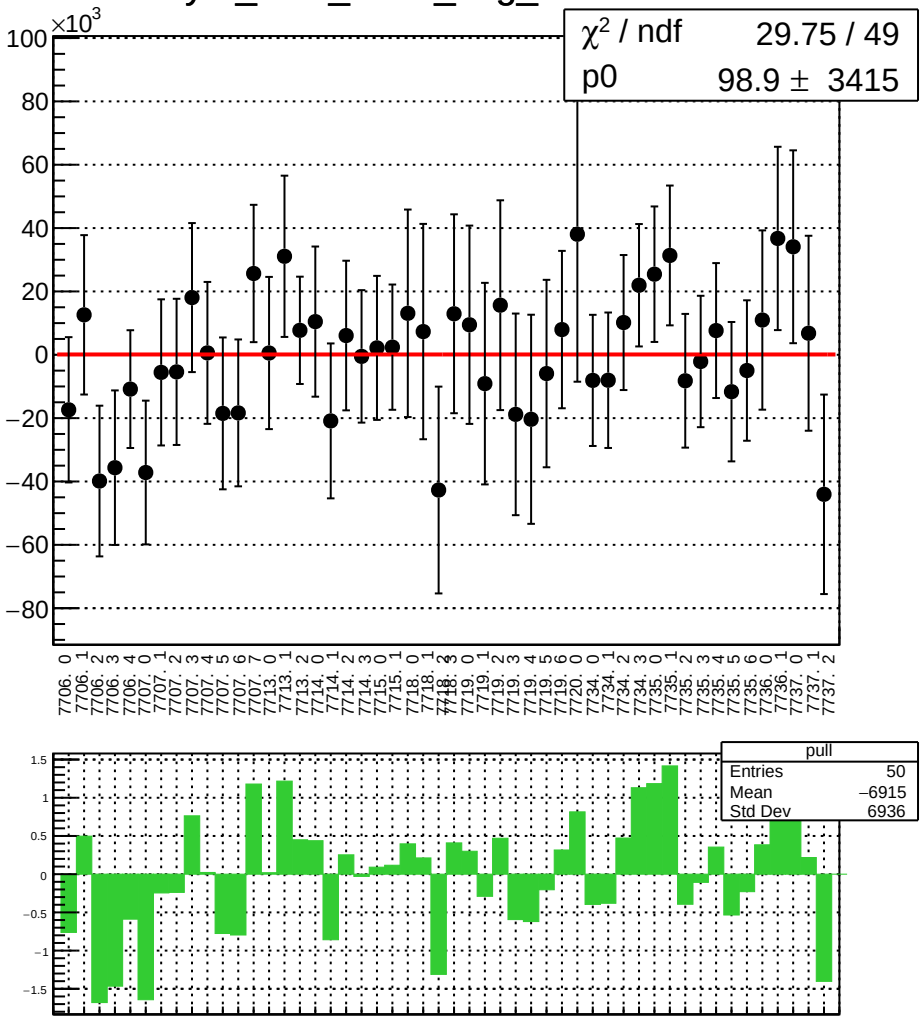

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 40.81 / 49
p0 235.9 ± 375.3
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 421.1
Std Dev 397.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.003605
Std Dev 0.9034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

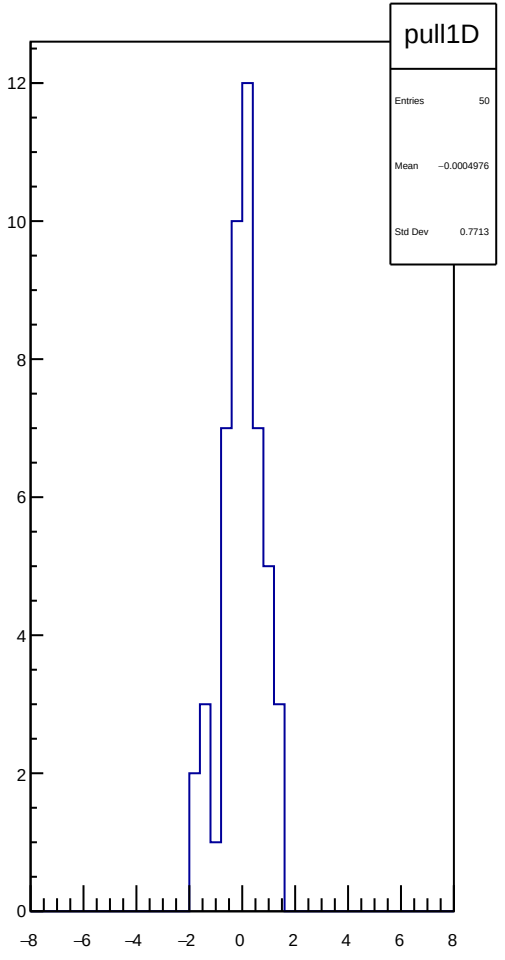

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.706e+04 / 49
p0 256.2 ± 0.2654
450
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

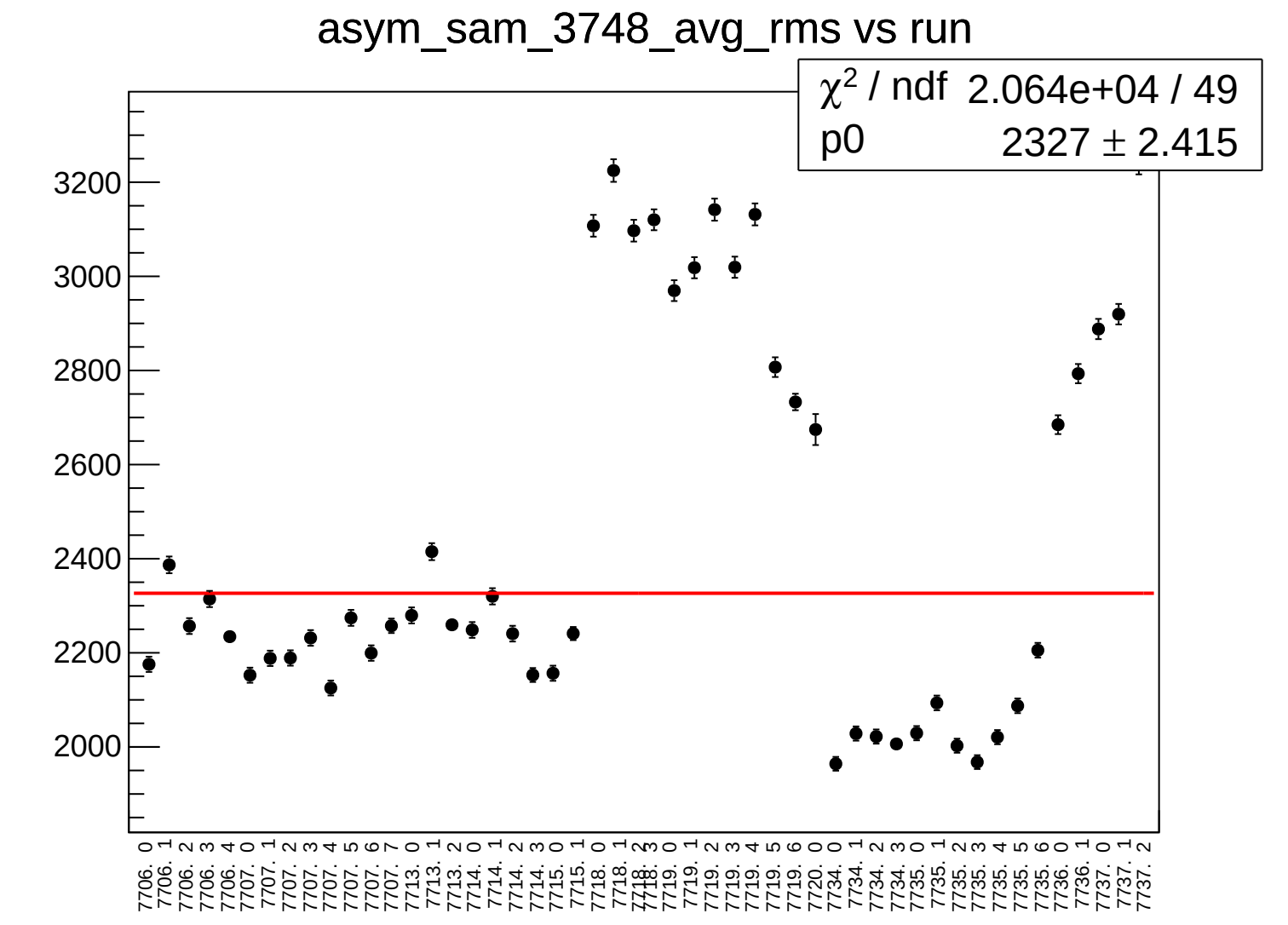

asym_sam_3748_avg_correction_mean vs run
×10^3
χ² / ndf 29.01 / 49
p0 −444.2 ± 3487
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −229.5
Std Dev 249.9
1.5
1
0.5
0
−0.5
−1
−1.5

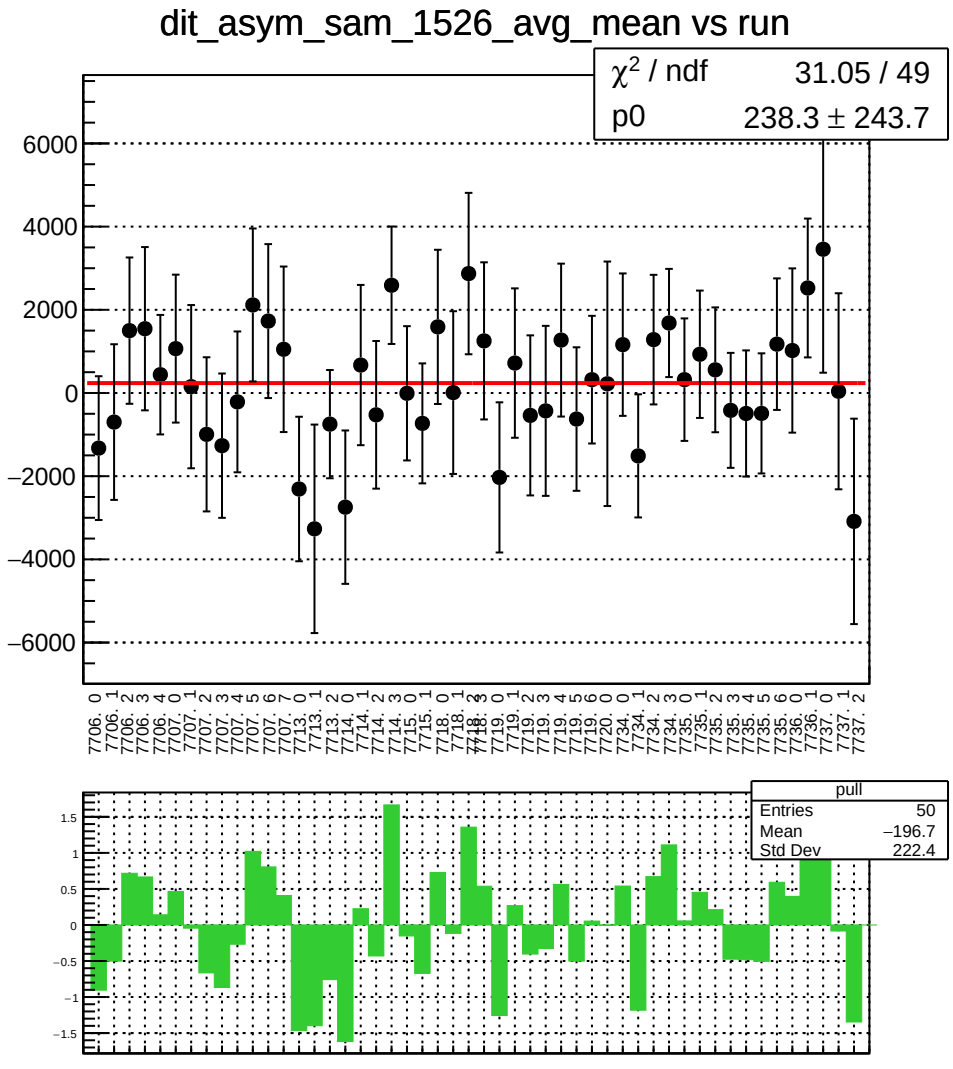

pull1D
Entries 50
Mean 0.01259
Std Dev 0.7616
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

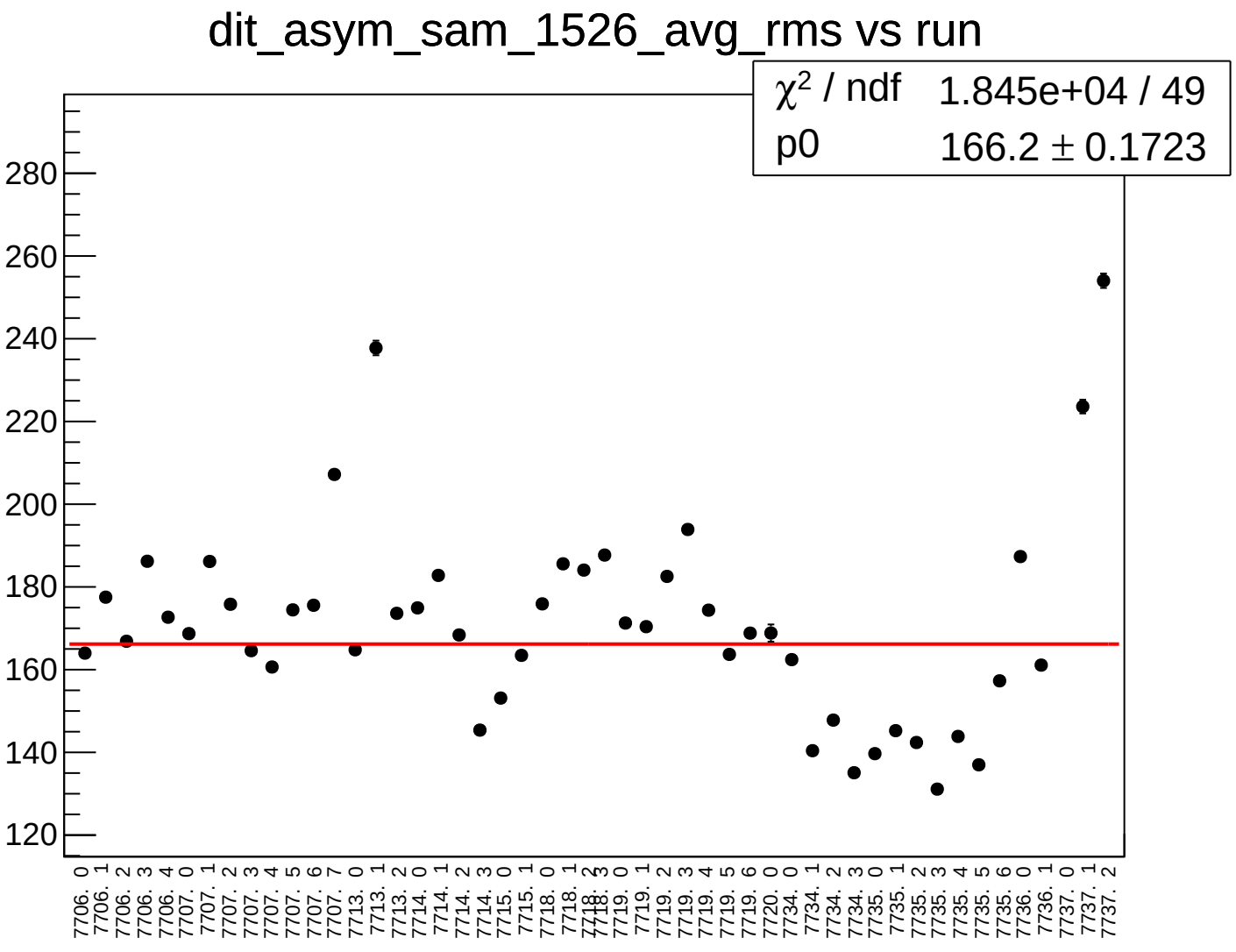

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 2.734e+04 / 49
p0 2366 ± 2.465
3400
3200
3000
2800
2600
2400
2200
2000
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

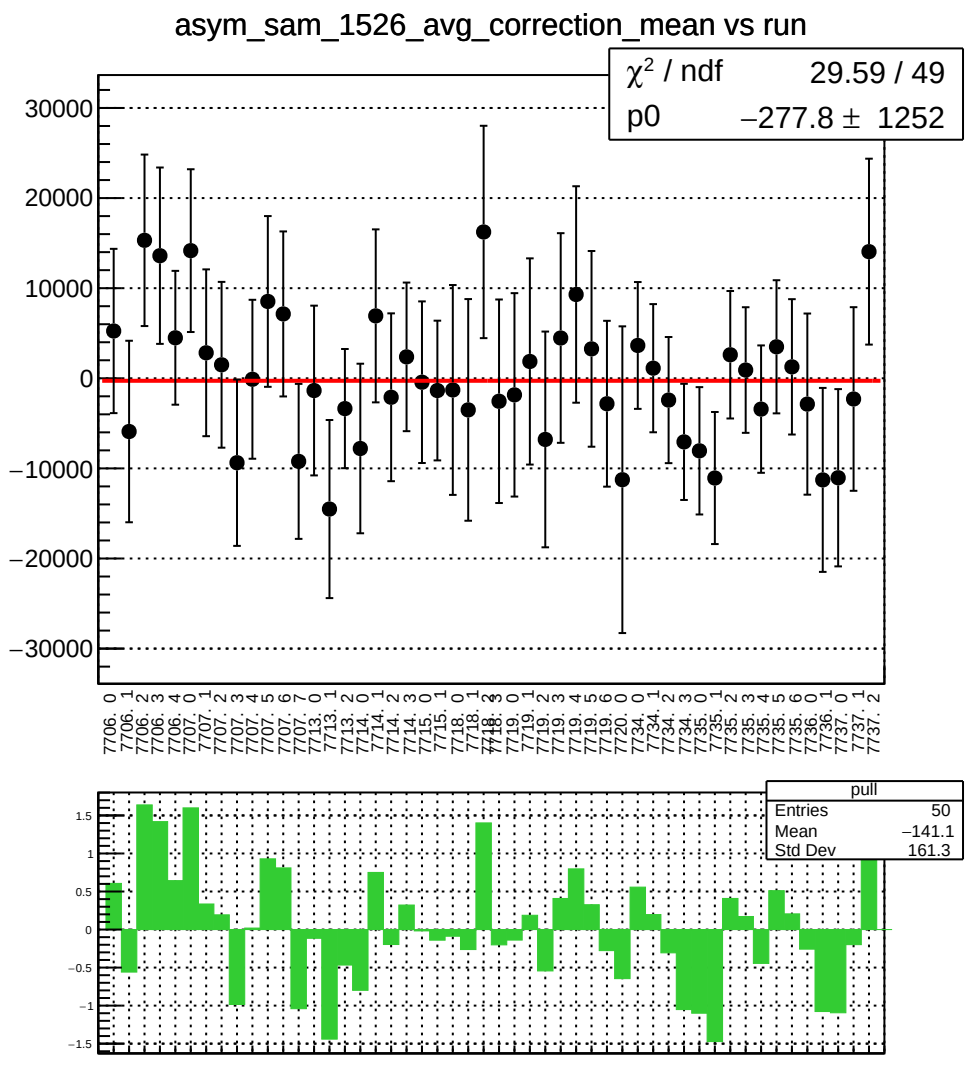

asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 29.75 / 49
p0 98.9 ± 3415
pull
Entries 50
Mean −6915
Std Dev 6936

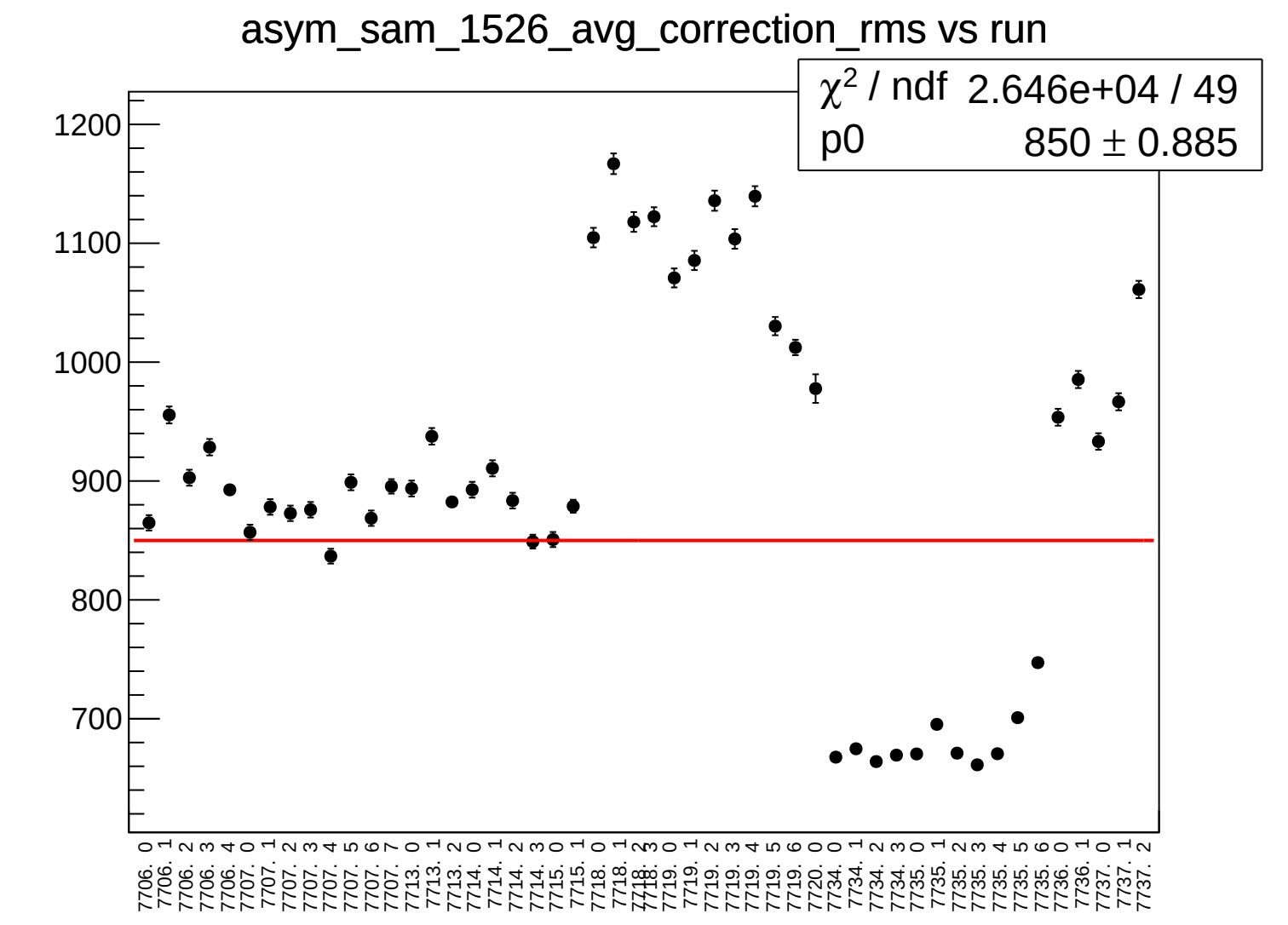

pull1D
Entries 50
Mean −0.0004976
Std Dev 0.7713

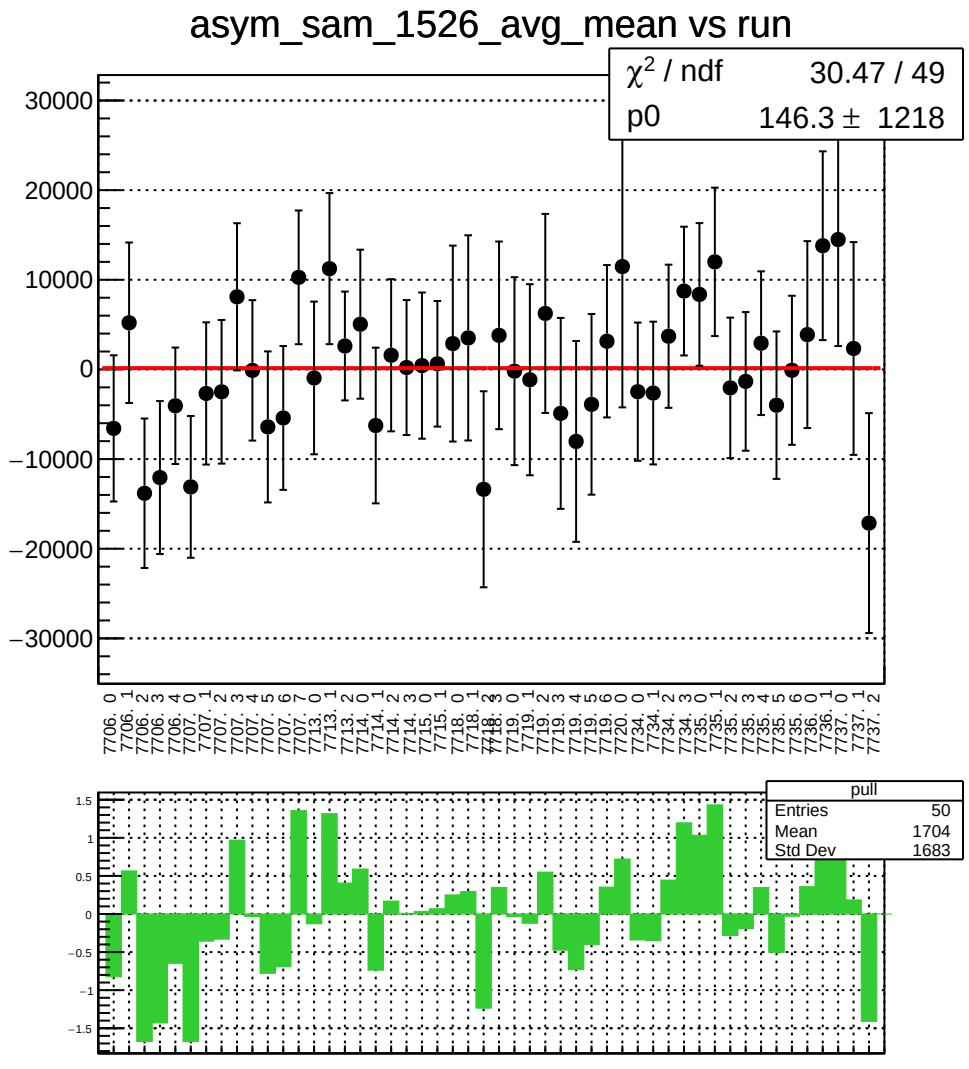

asym_sam_3748_avg_rms vs run
χ² / ndf 2.064e+04 / 49
p0 2327 ± 2.415
3200
3000
2800
2600
2400
2200
2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

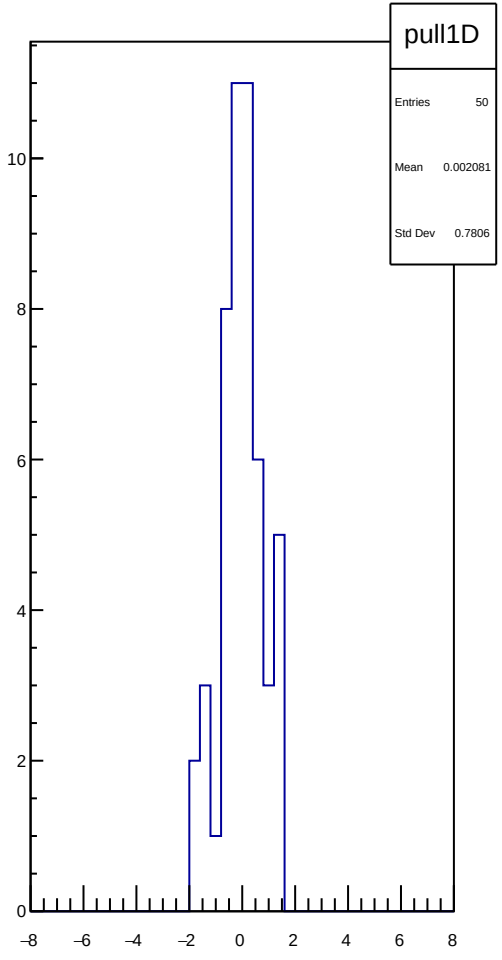

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 31.05 / 49
p0 238.3 ± 243.7
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −196.7
Std Dev 222.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.006405
Std Dev 0.7881
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

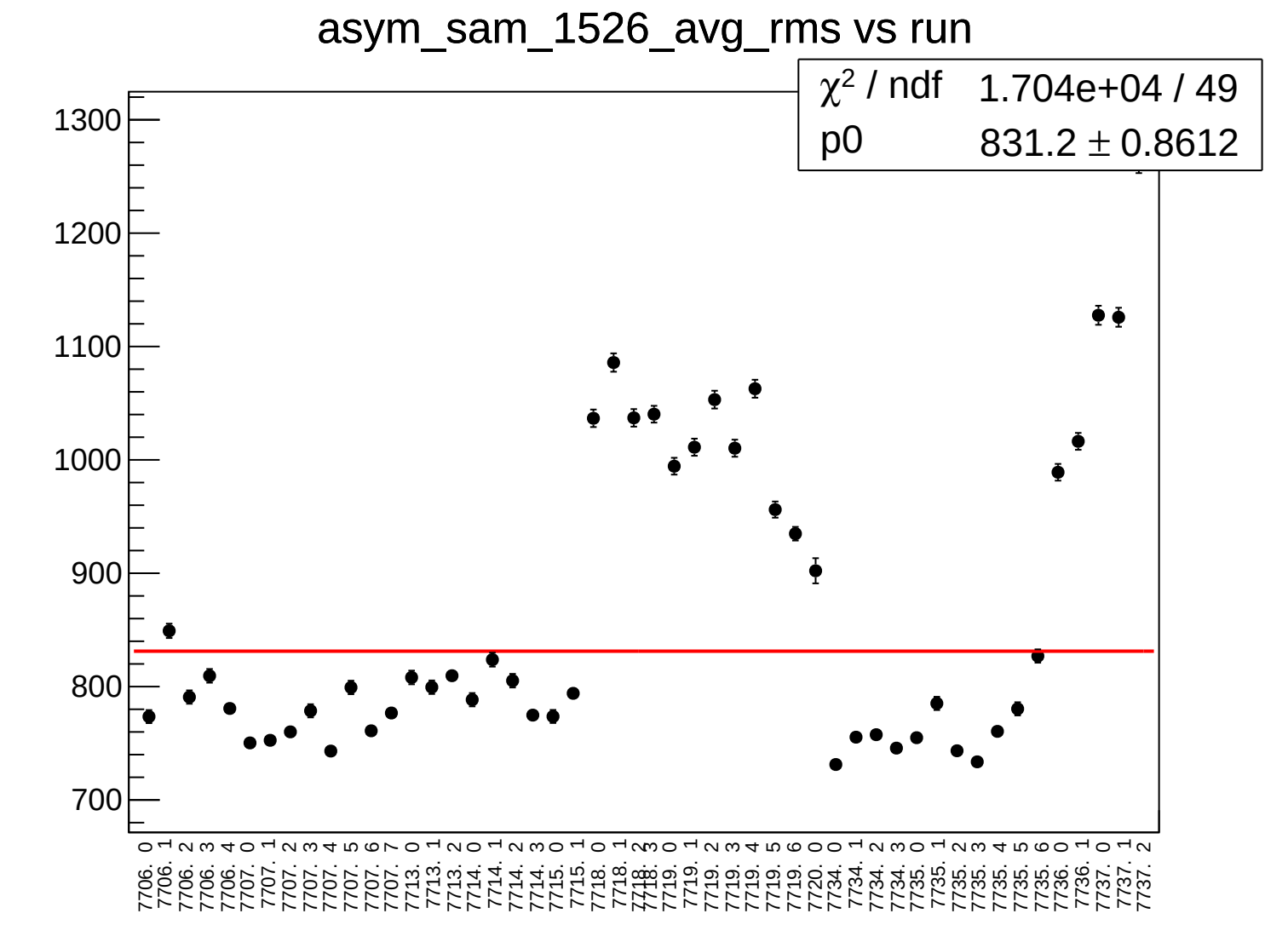

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.845e+04 / 49
p0 166.2 ± 0.1723
280
260
240
220
200
180
160
140
120
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

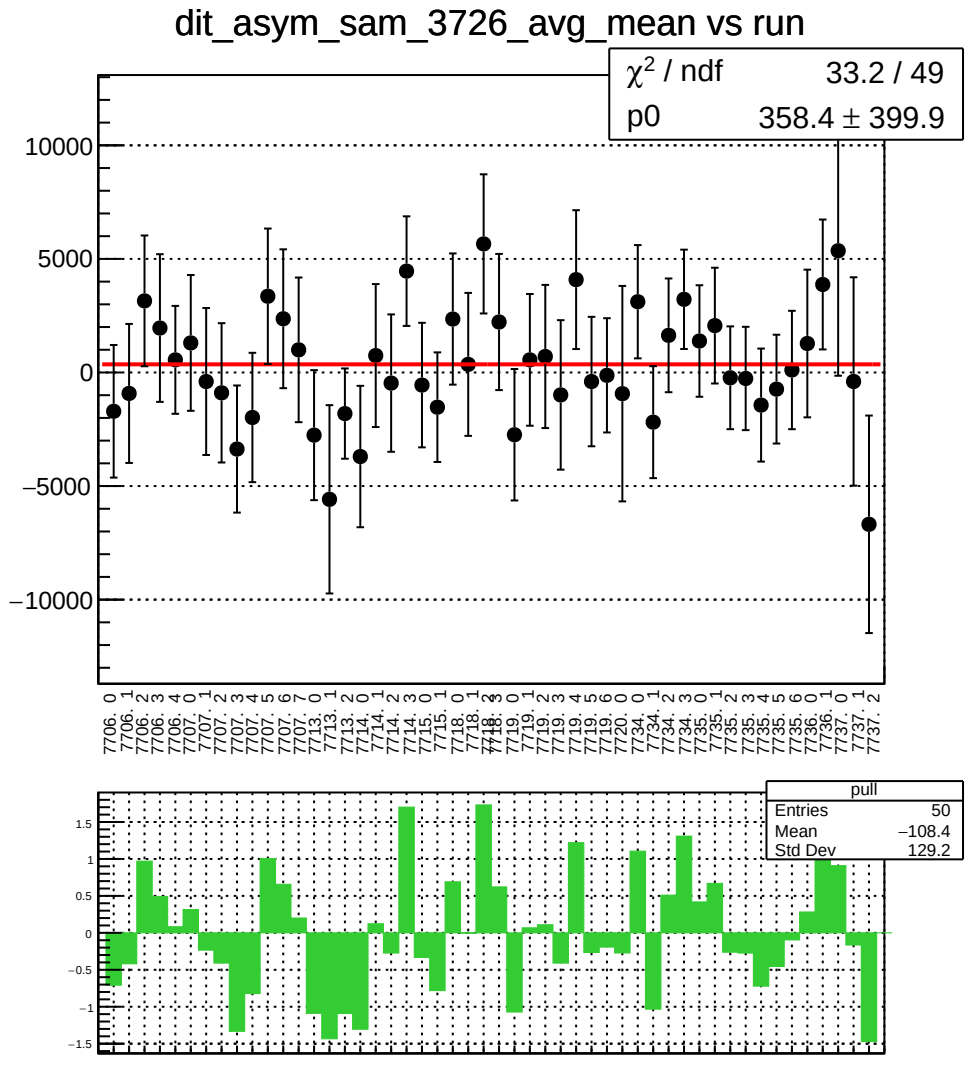

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 29.59 / 49
p0 −277.8 ± 1252
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −141.1
Std Dev 161.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01828
Std Dev 0.769
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

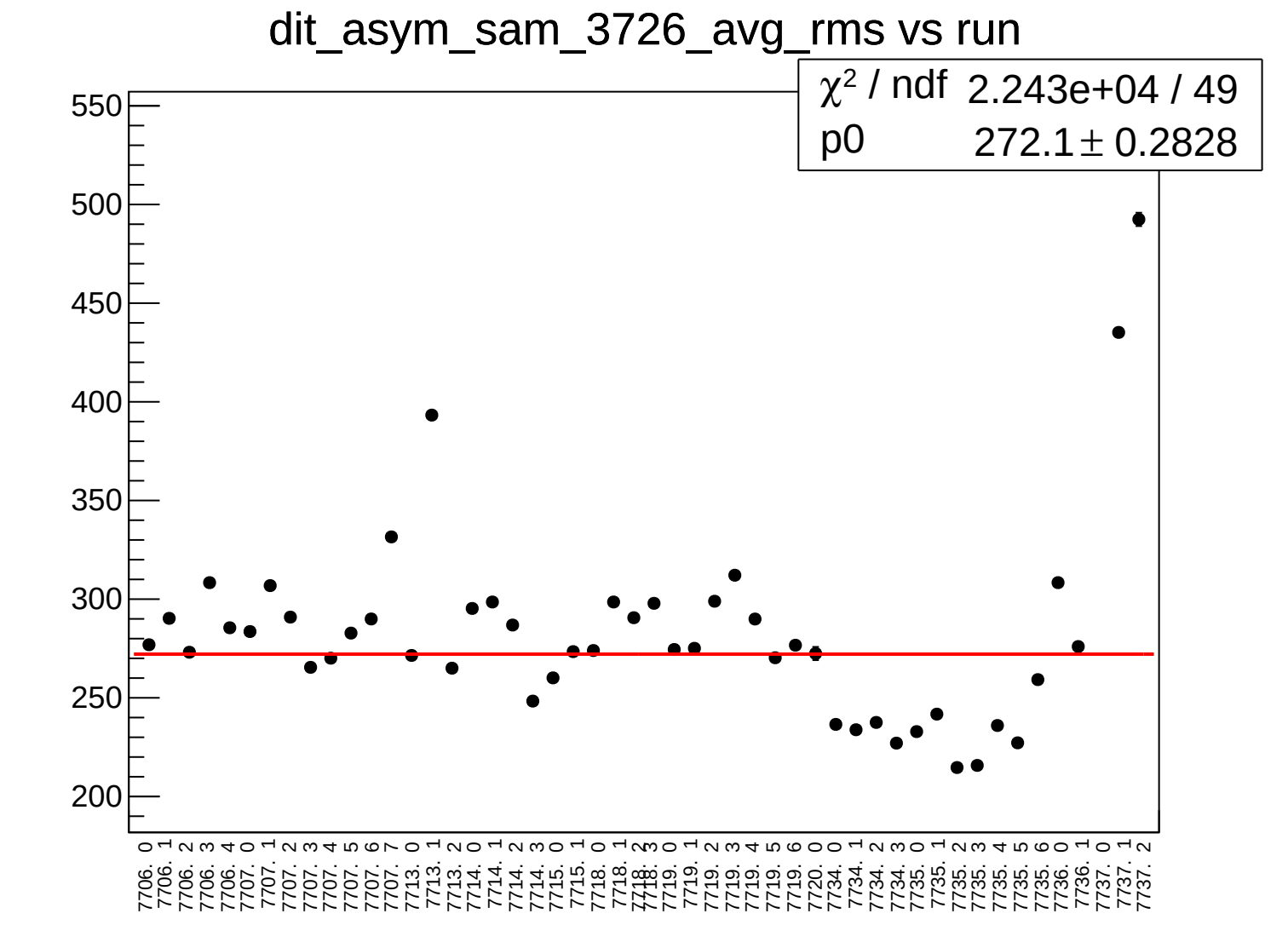

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 2.646e+04 / 49
p0 850 ± 0.885
1200
1100
1000
900
800
700
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

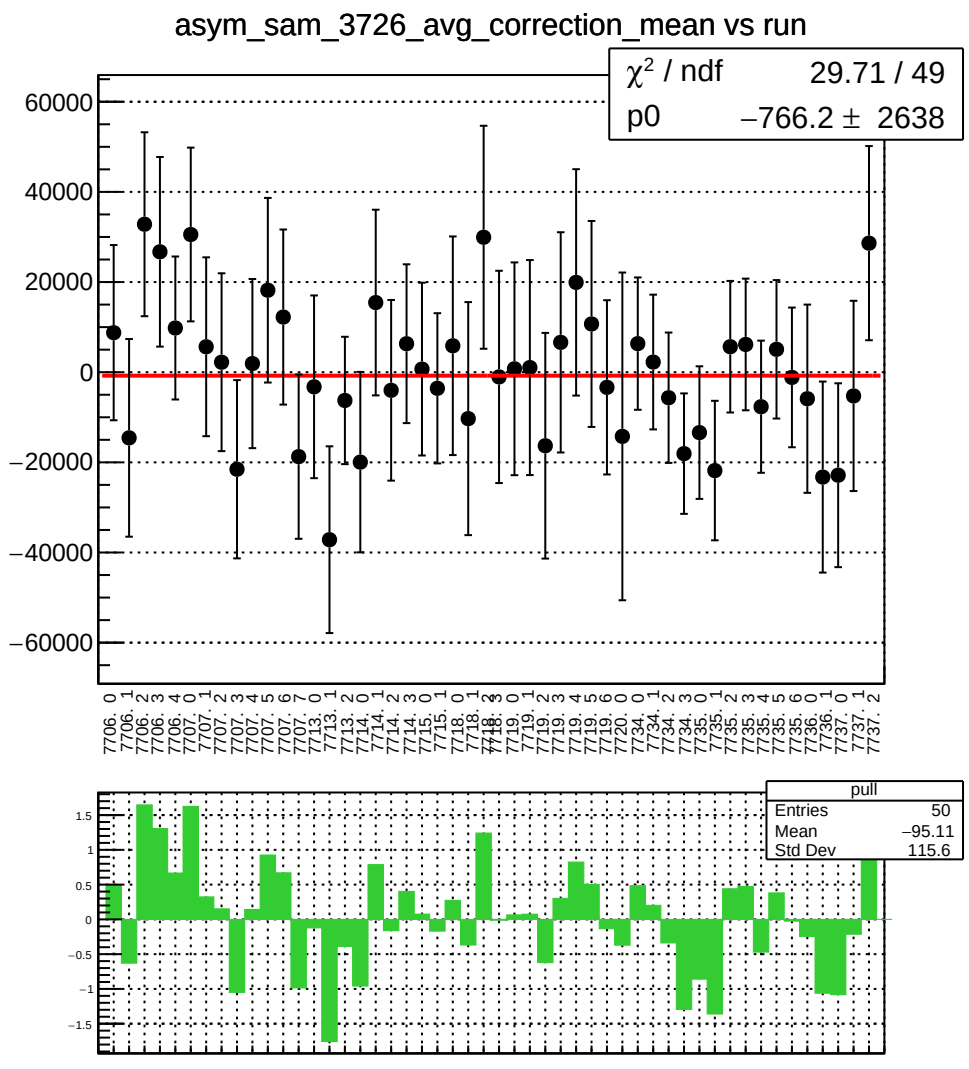

asym_sam_1526_avg_mean vs run
χ² / ndf 30.47 / 49
p0 146.3 ± 1218
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 1704
Std Dev 1683
1.5
1
0.5
0
−0.5
−1
−1.5

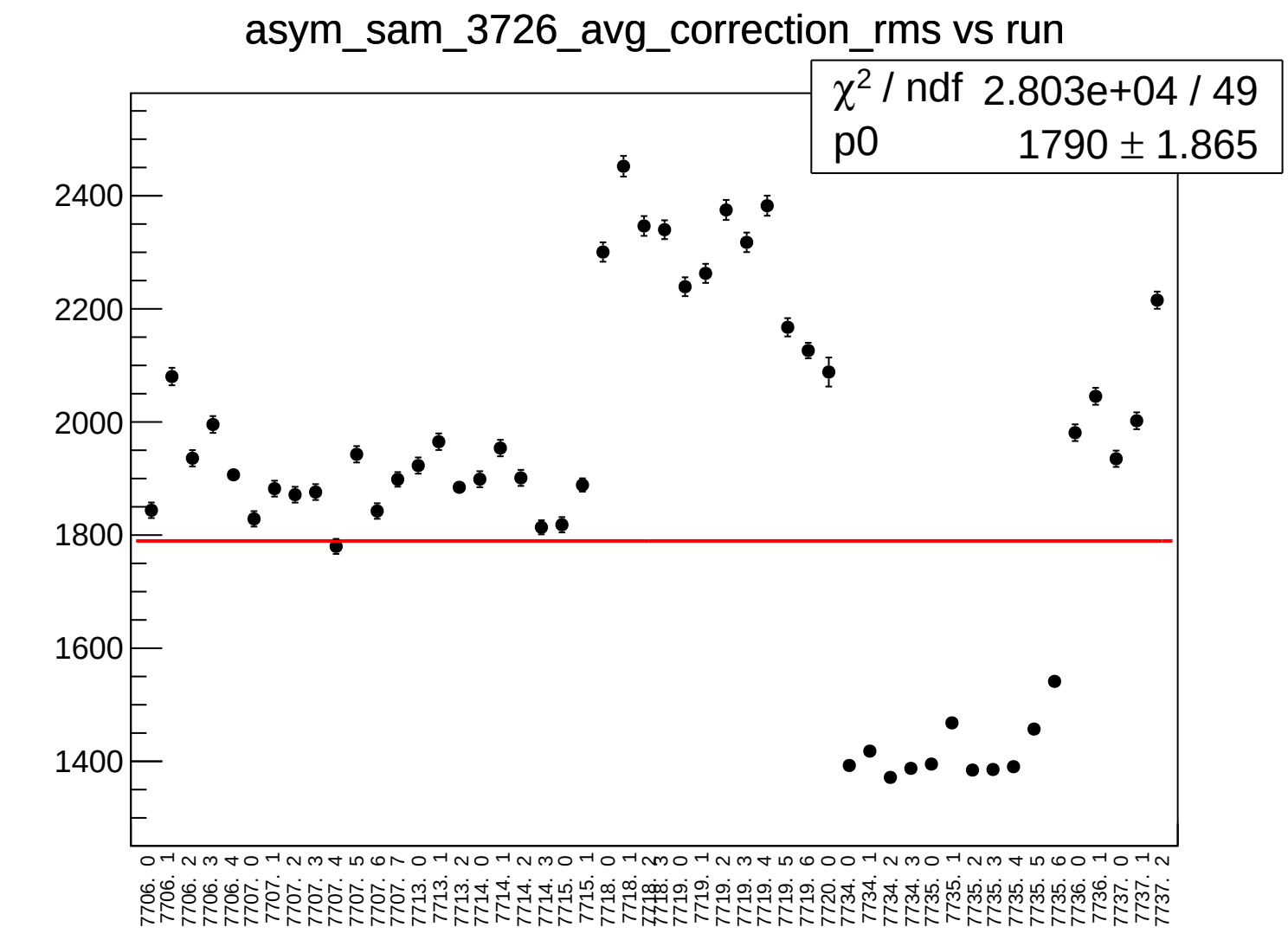

pull1D
Entries 50
Mean 0.002081
Std Dev 0.7806
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

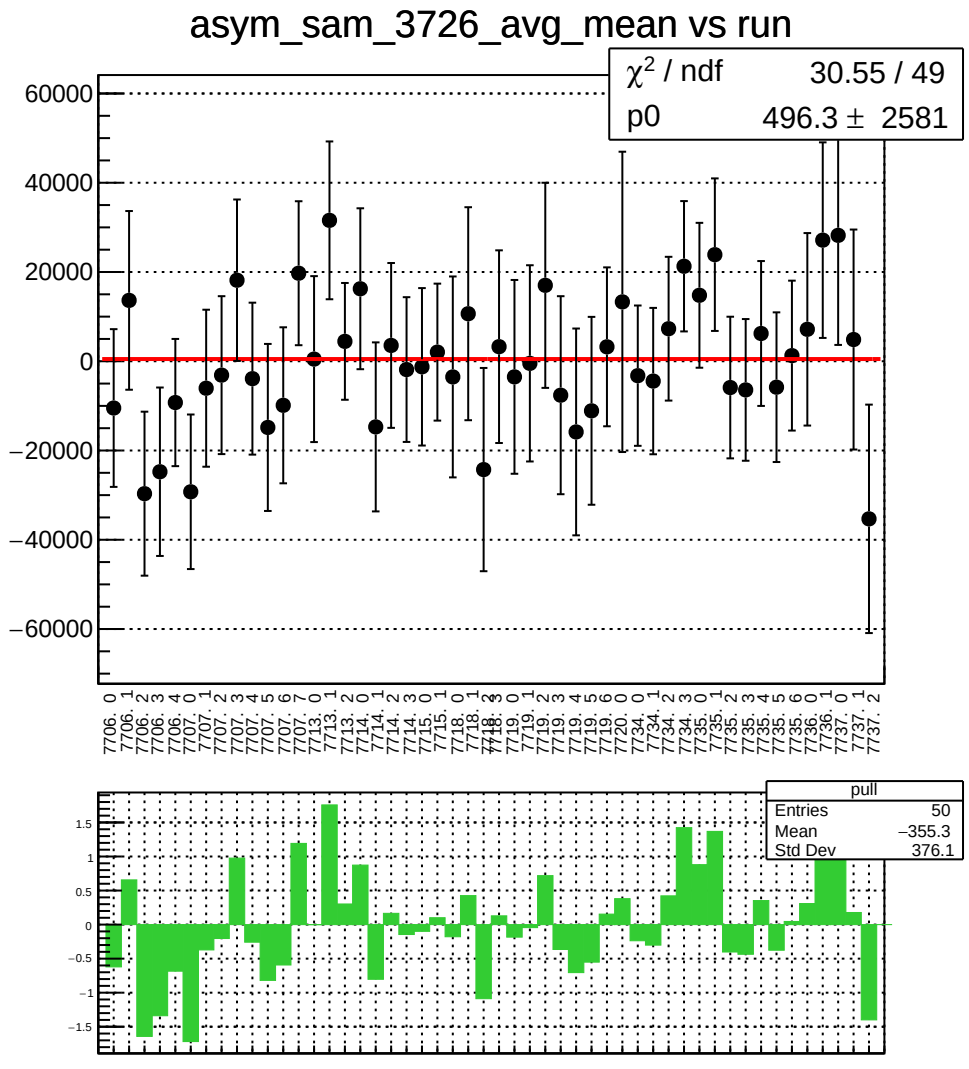

asym_sam_1526_avg_rms vs run
χ² / ndf 1.704e+04 / 49
p0 831.2 ± 0.8612
1300
1200
1100
1000
900
800
700
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

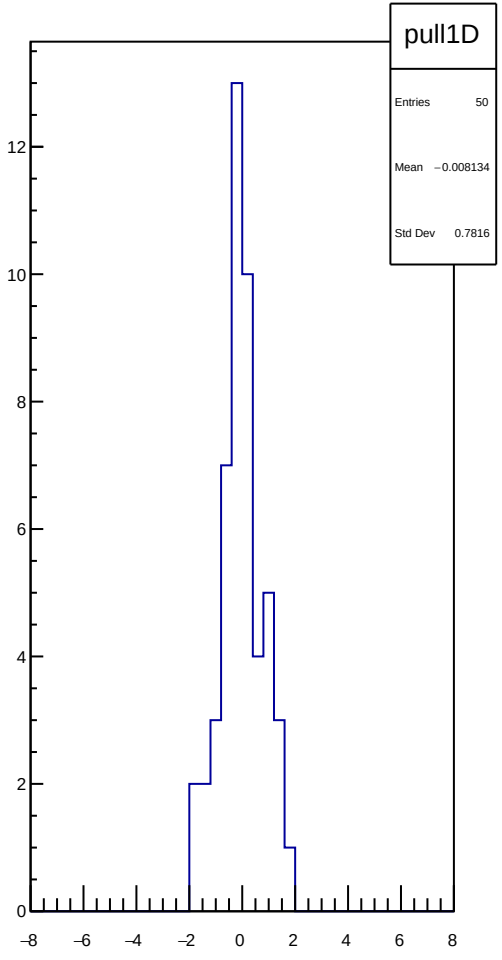

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 33.2 / 49
p0 358.4 ± 399.9
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −108.4
Std Dev 129.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.009969
Std Dev 0.8148
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

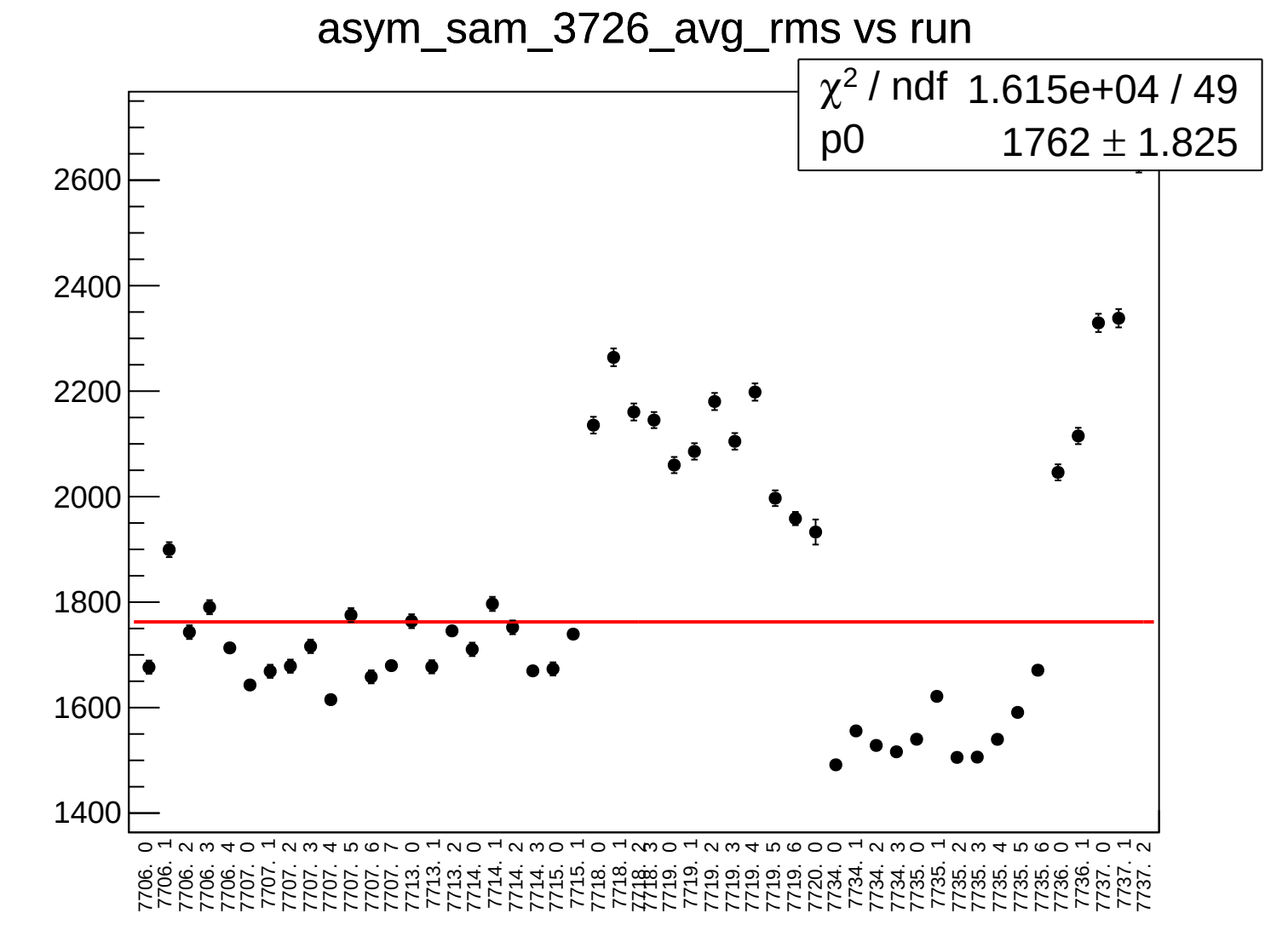

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.243e+04 / 49
p0 272.1 ± 0.2828
550
500
450
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

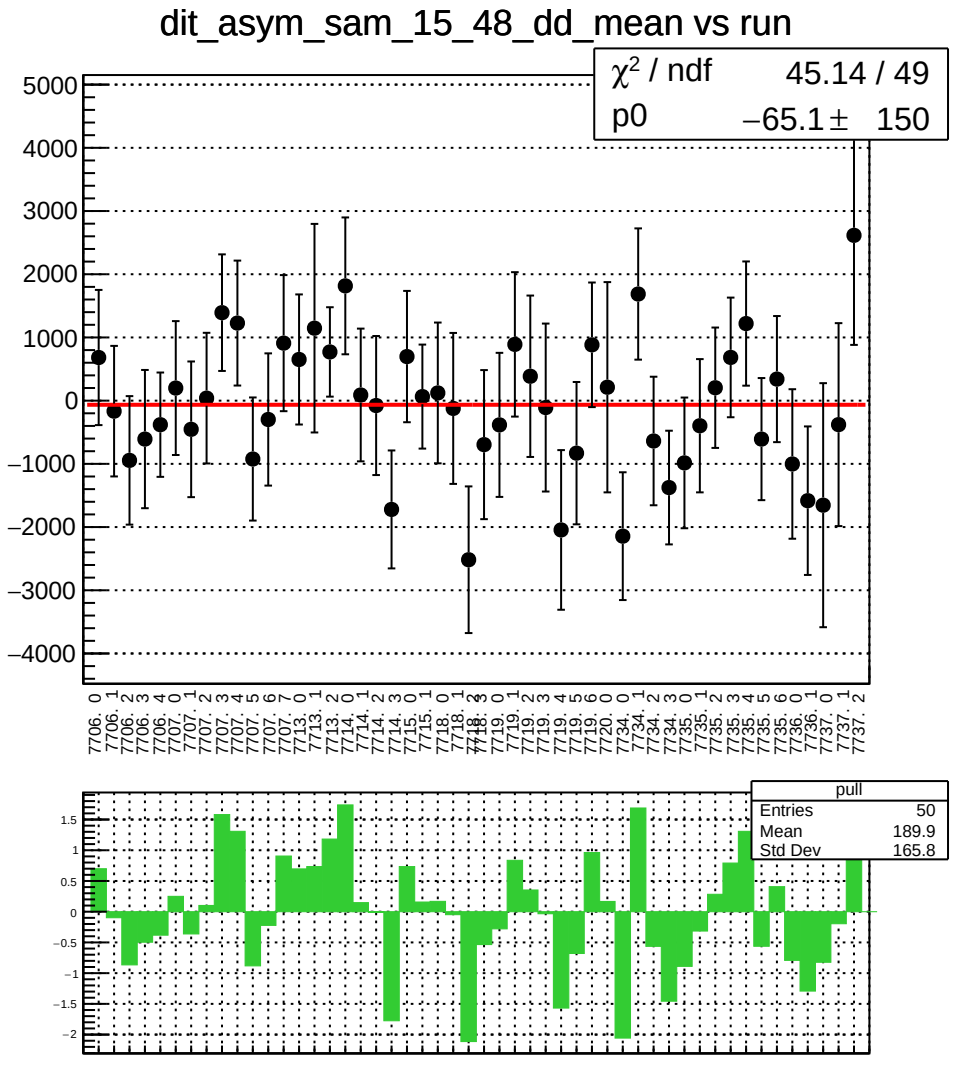

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 29.71 / 49
p0 −766.2 ± 2638
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −95.11
Std Dev 115.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.02325
Std Dev 0.7705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

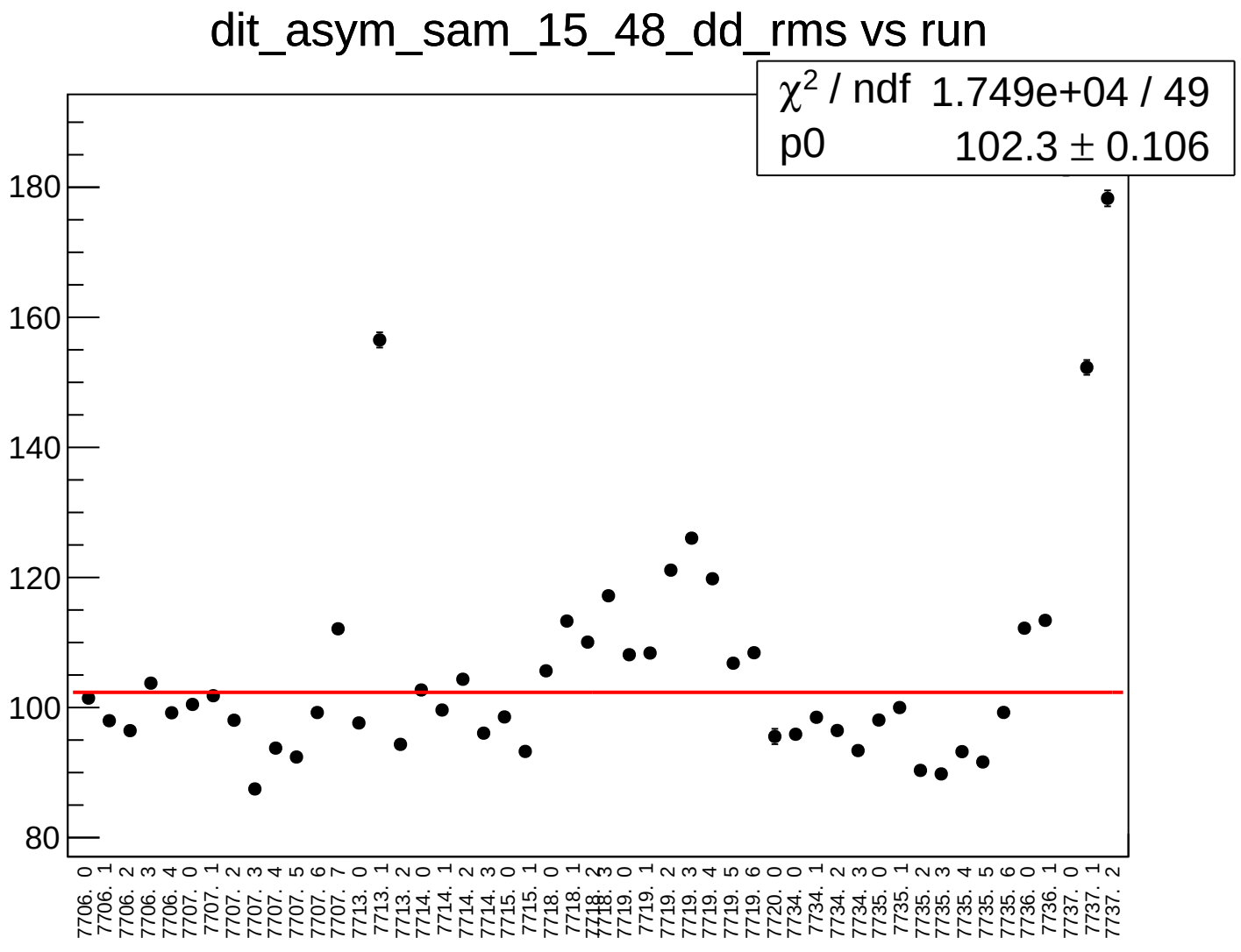

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 2.803e+04 / 49
p0 1790 ± 1.865
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_3726_avg_mean vs run
χ² / ndf 30.55 / 49
p0 496.3 ± 2581
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −355.3
Std Dev 376.1
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.008134
Std Dev 0.7816
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_3726_avg_rms vs run
χ² / ndf 1.615e+04 / 49
p0 1762 ± 1.825
2600
2400
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 45.14 / 49
p0 −65.1 ± 150
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 189.9
Std Dev 165.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.01106
Std Dev 0.9501
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 1.749e+04 / 49
p0 102.3 ± 0.106
180
160
140
120
100
80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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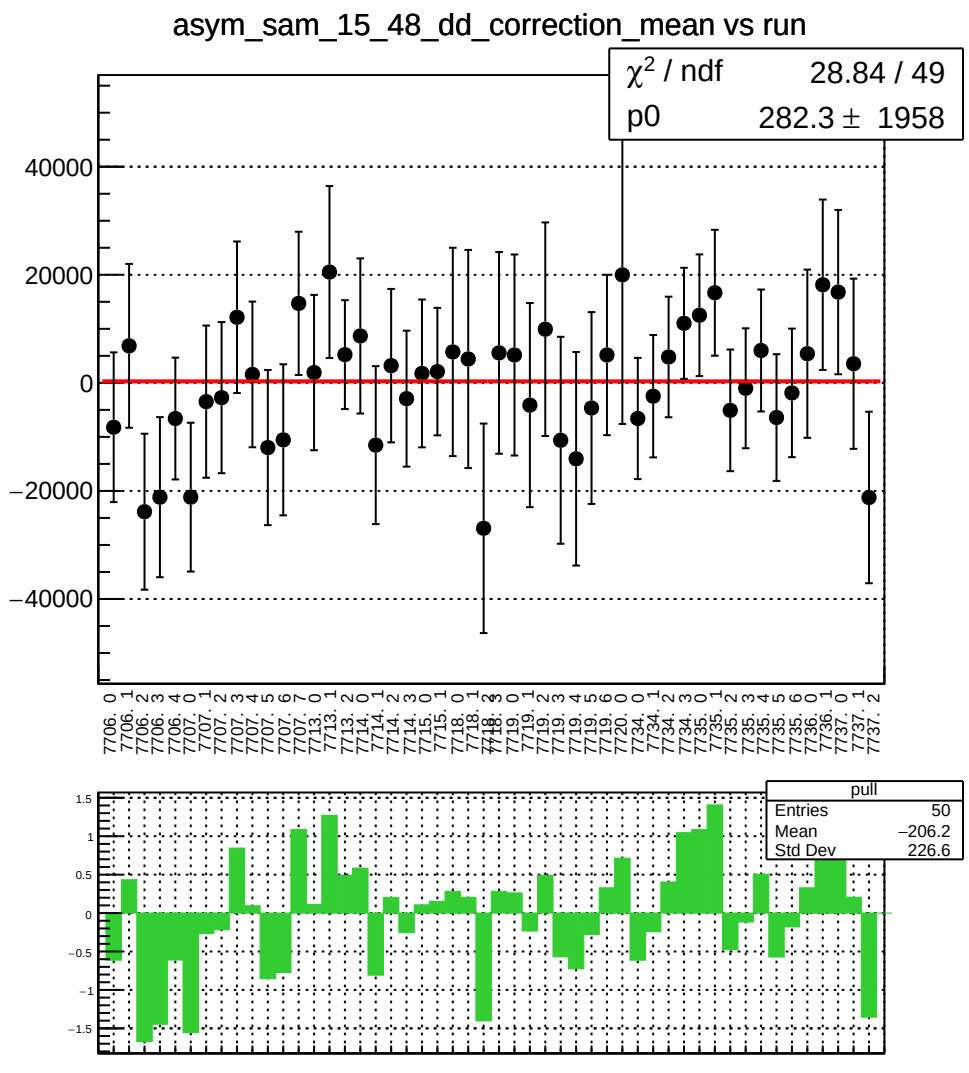
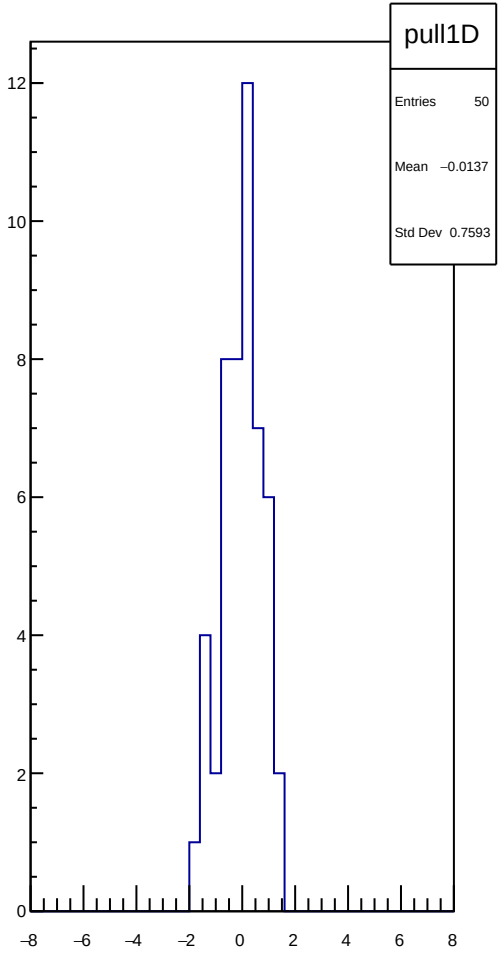
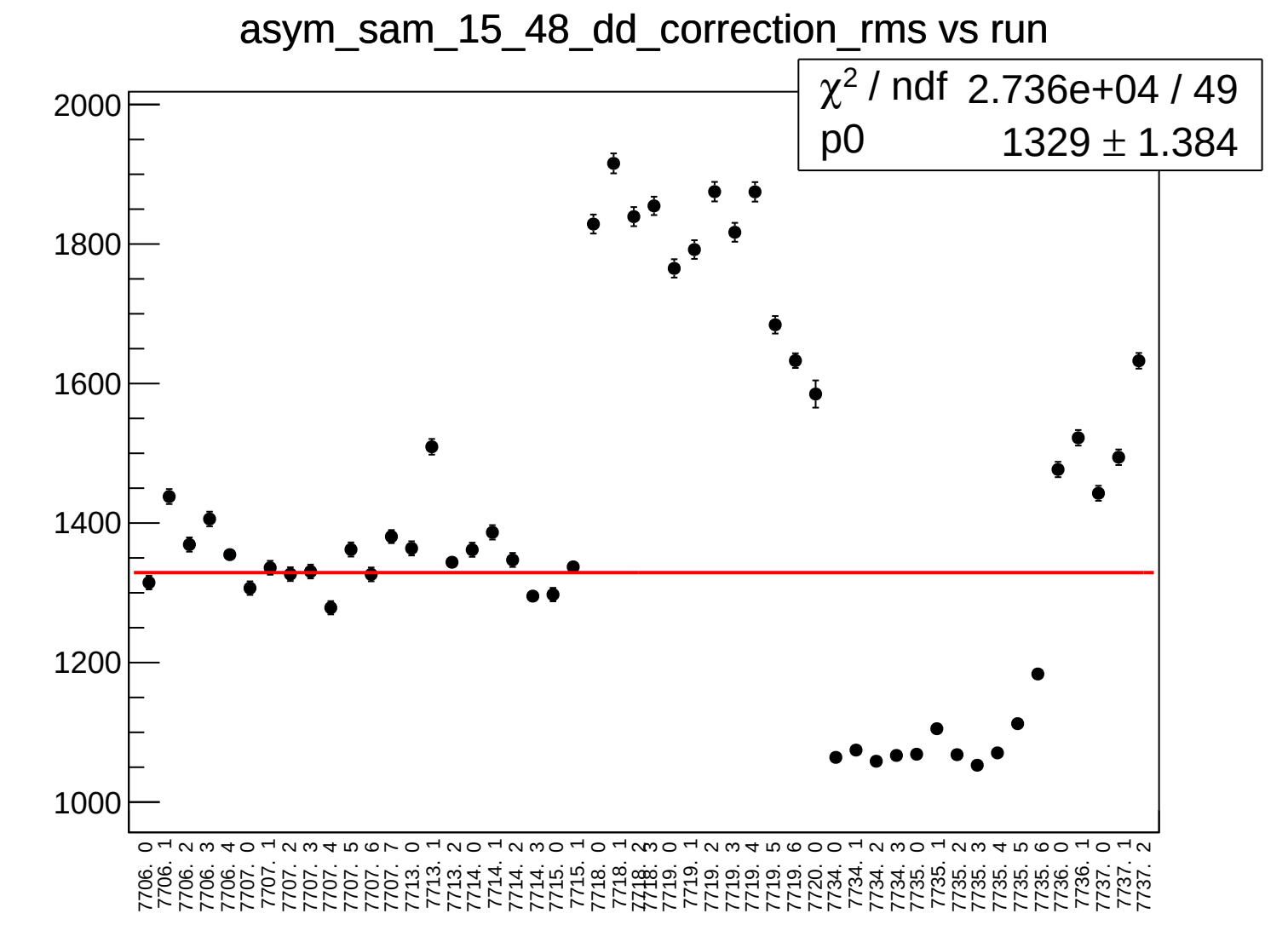
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 28.84 / 49
p0 282.3 ± 1958
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −206.2
Std Dev 226.6
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.0137
Std Dev 0.7593
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 2.736e+04 / 49
p0 1329 ± 1.384
2000
1800
1600
1400
1200
1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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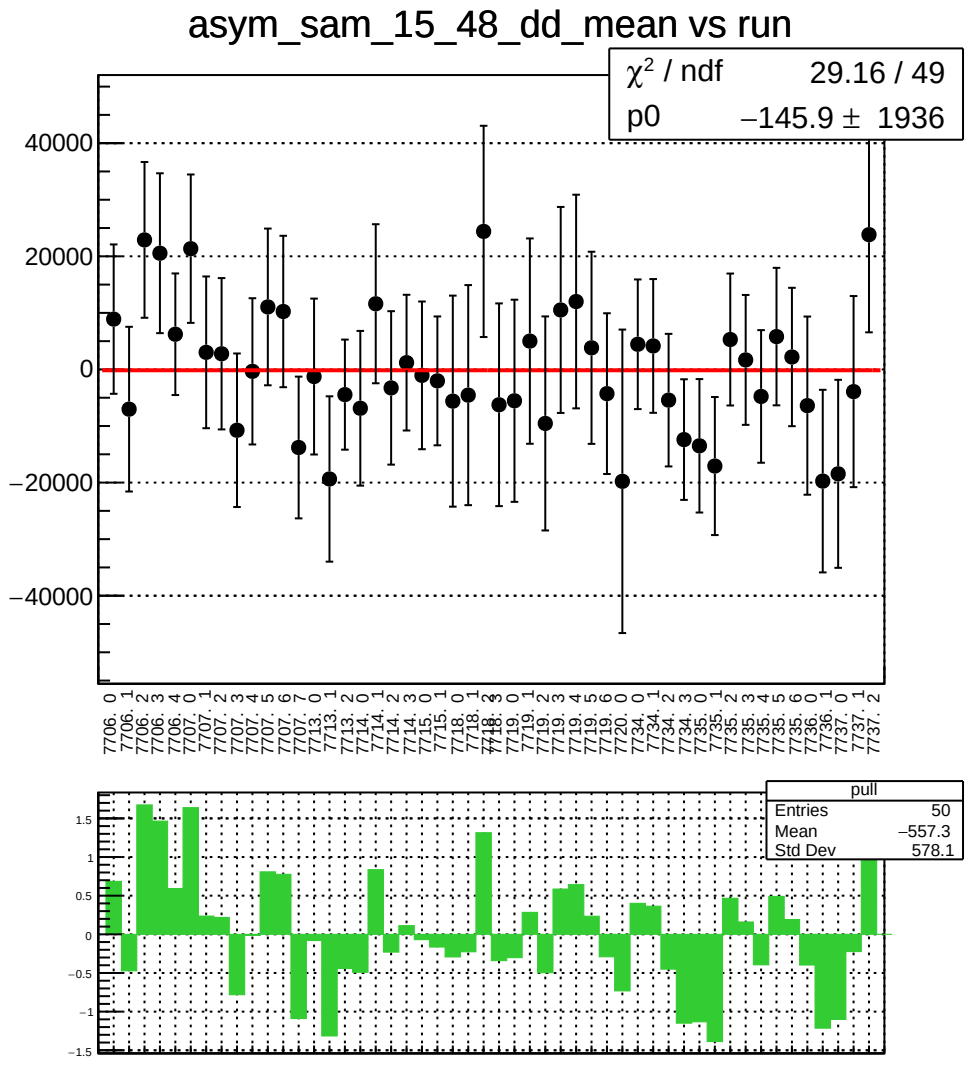
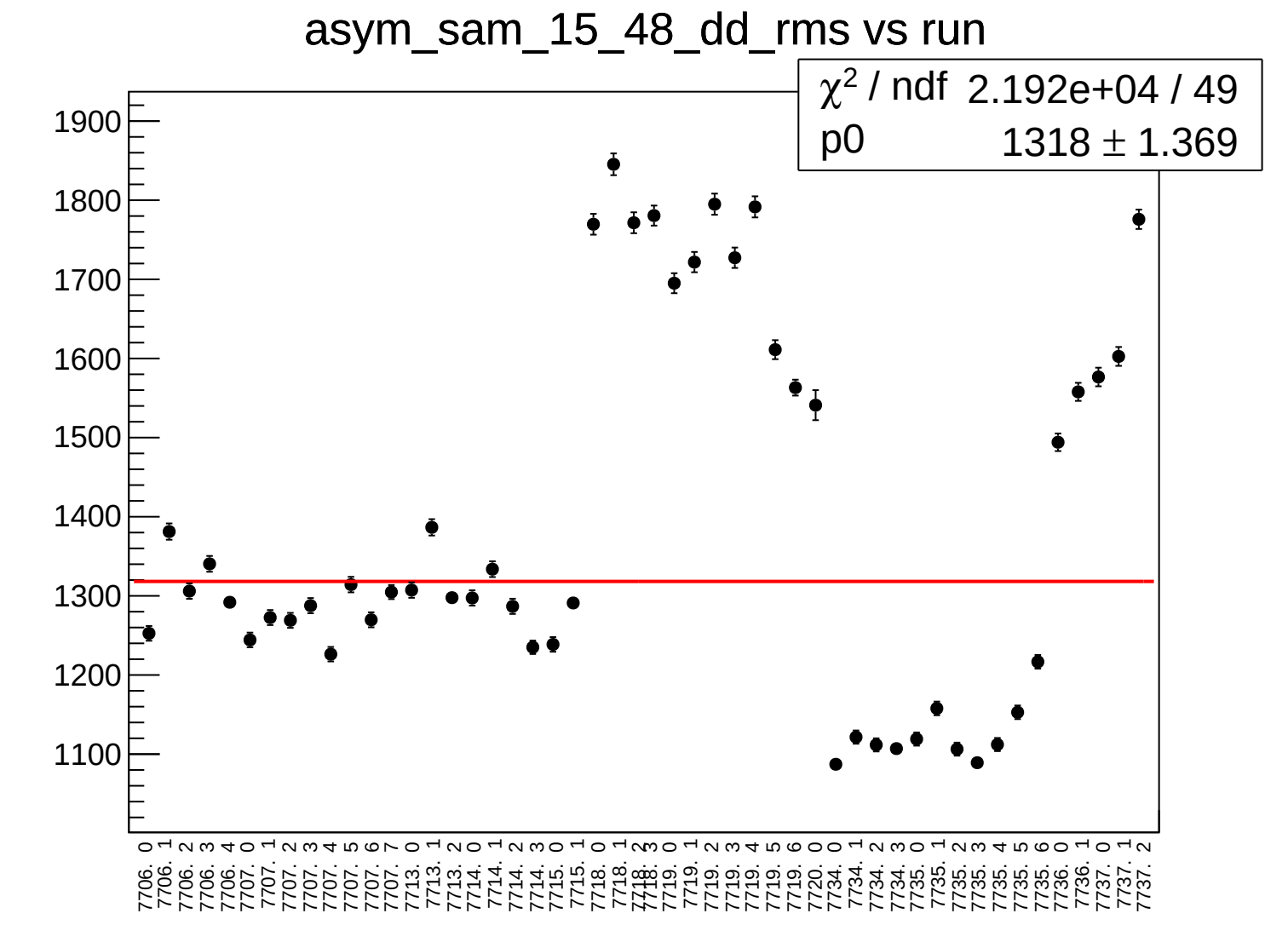
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_48_dd_mean vs run
χ² / ndf 29.16 / 49
p0 −145.9 ± 1936
40000
20000
0
−20000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −557.3
Std Dev 578.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.005761
Std Dev 0.7636
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_rms vs run
χ² / ndf 2.192e+04 / 49
p0 1318 ± 1.369
1900
1800
1700
1600
1500
1400
1300
1200
1100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7714. 1
7714. 2
7714. 3
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7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
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7735. 5
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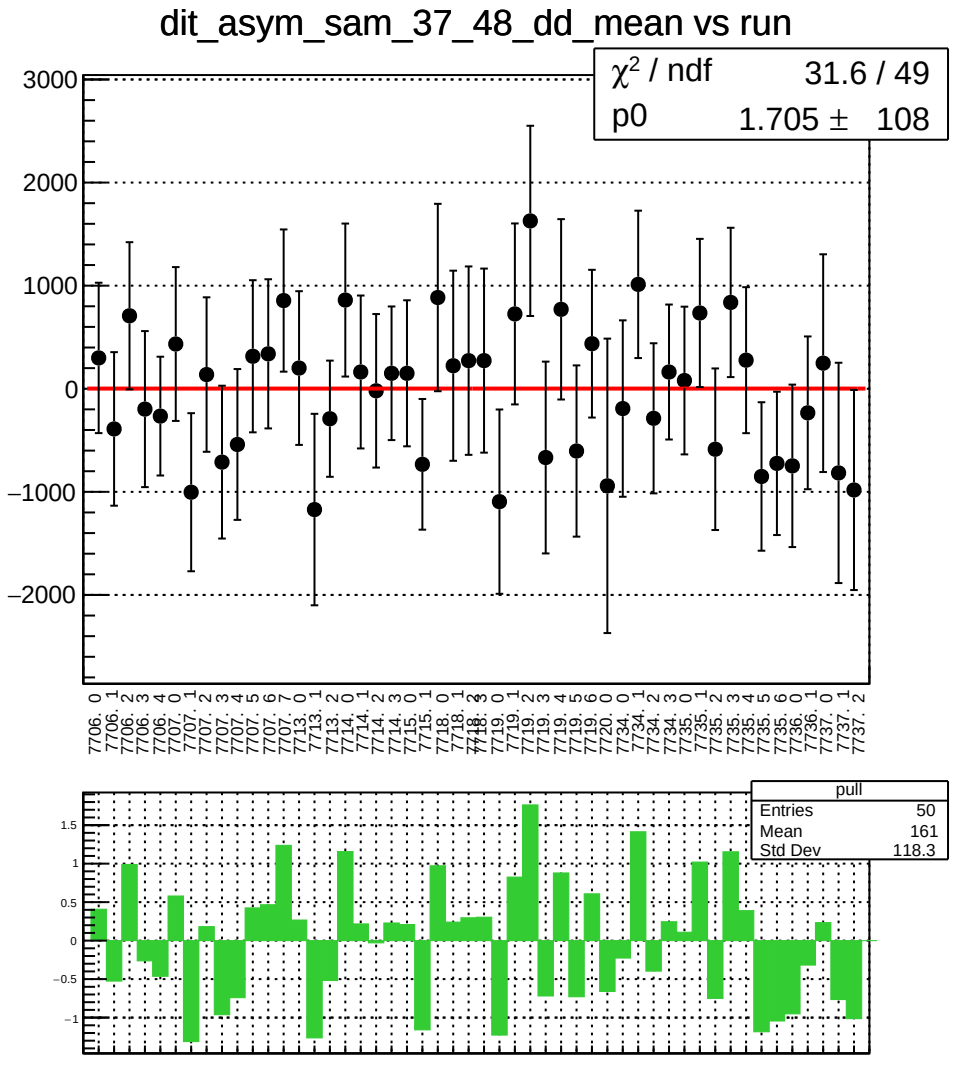
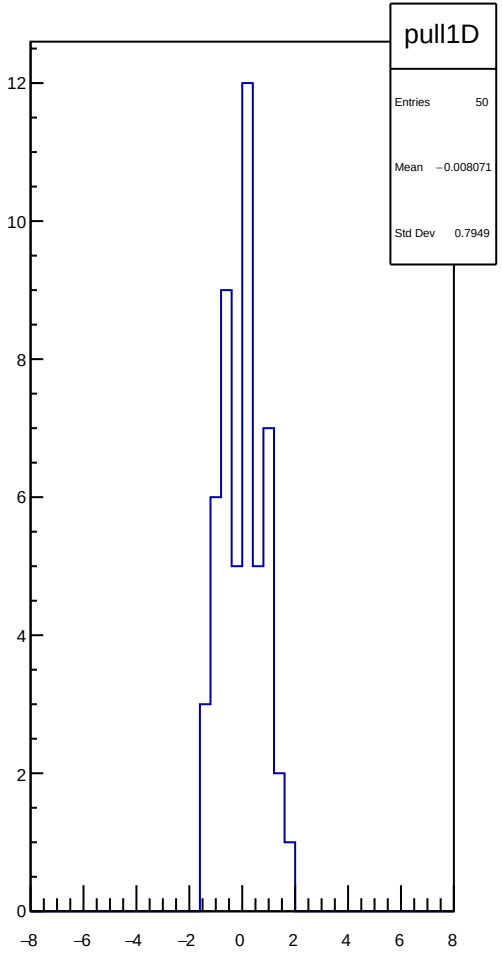
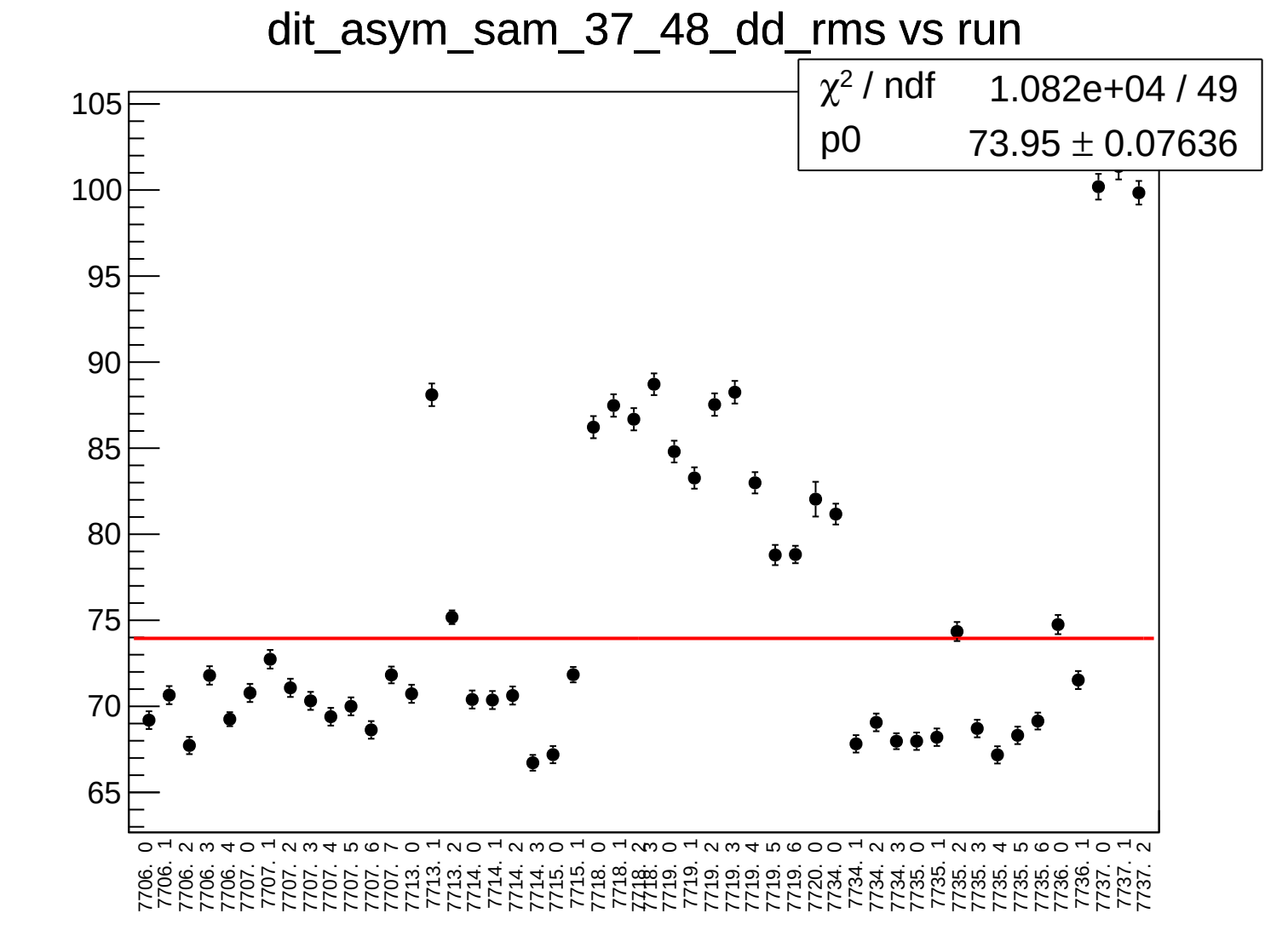
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 31.6 / 49
p0 1.705 ± 108
3000
2000
1000
0
−1000
−2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 161
Std Dev 118.3
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 50
Mean −0.008071
Std Dev 0.7949
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.082e+04 / 49
p0 73.95 ± 0.07636
105
100
95
90
85
80
75
70
65
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
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7714. 3
7715. 0
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7718. 0
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7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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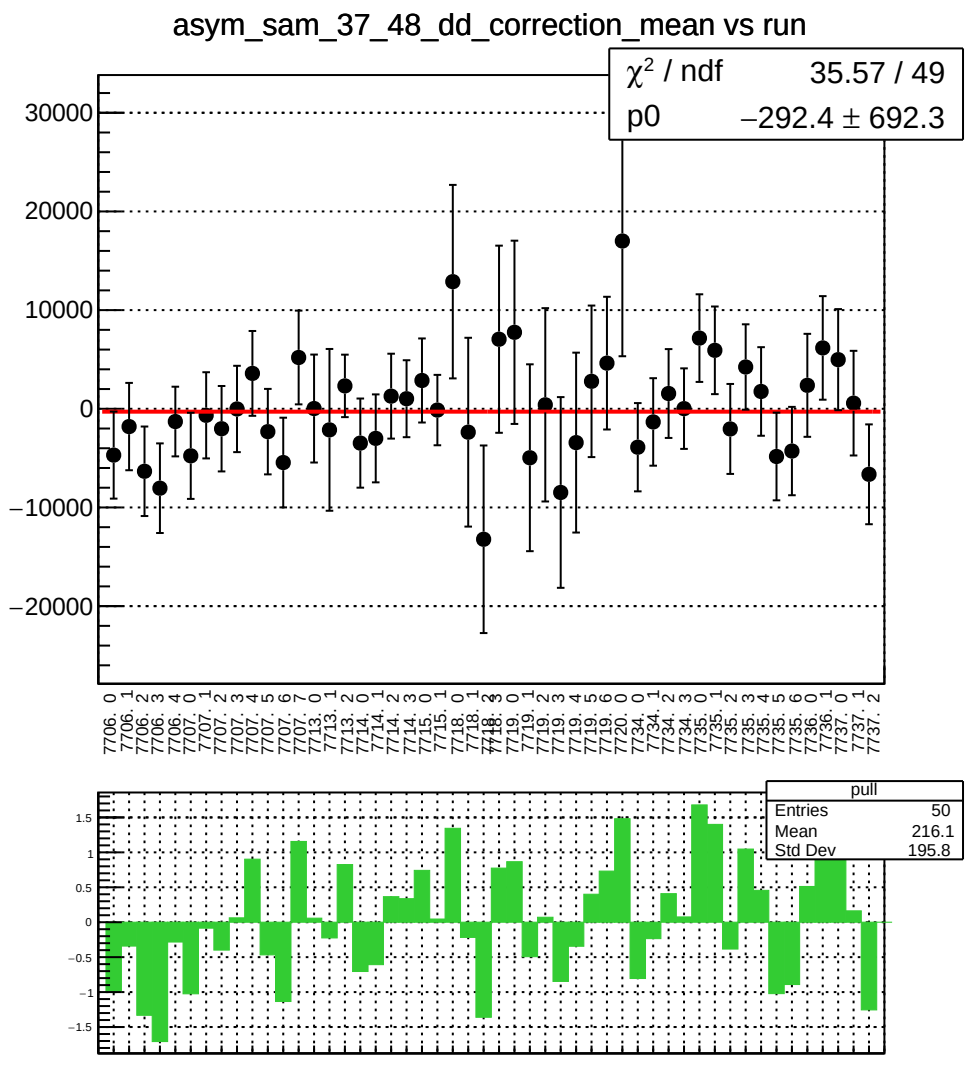
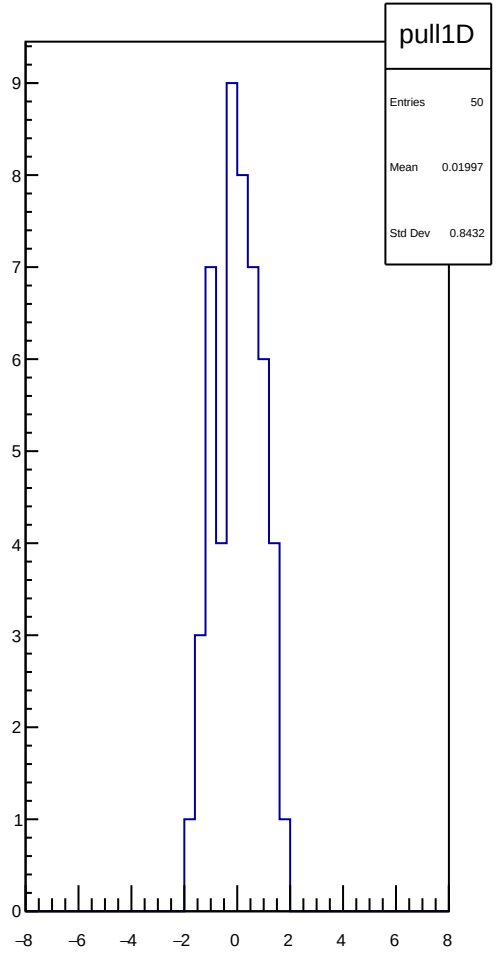
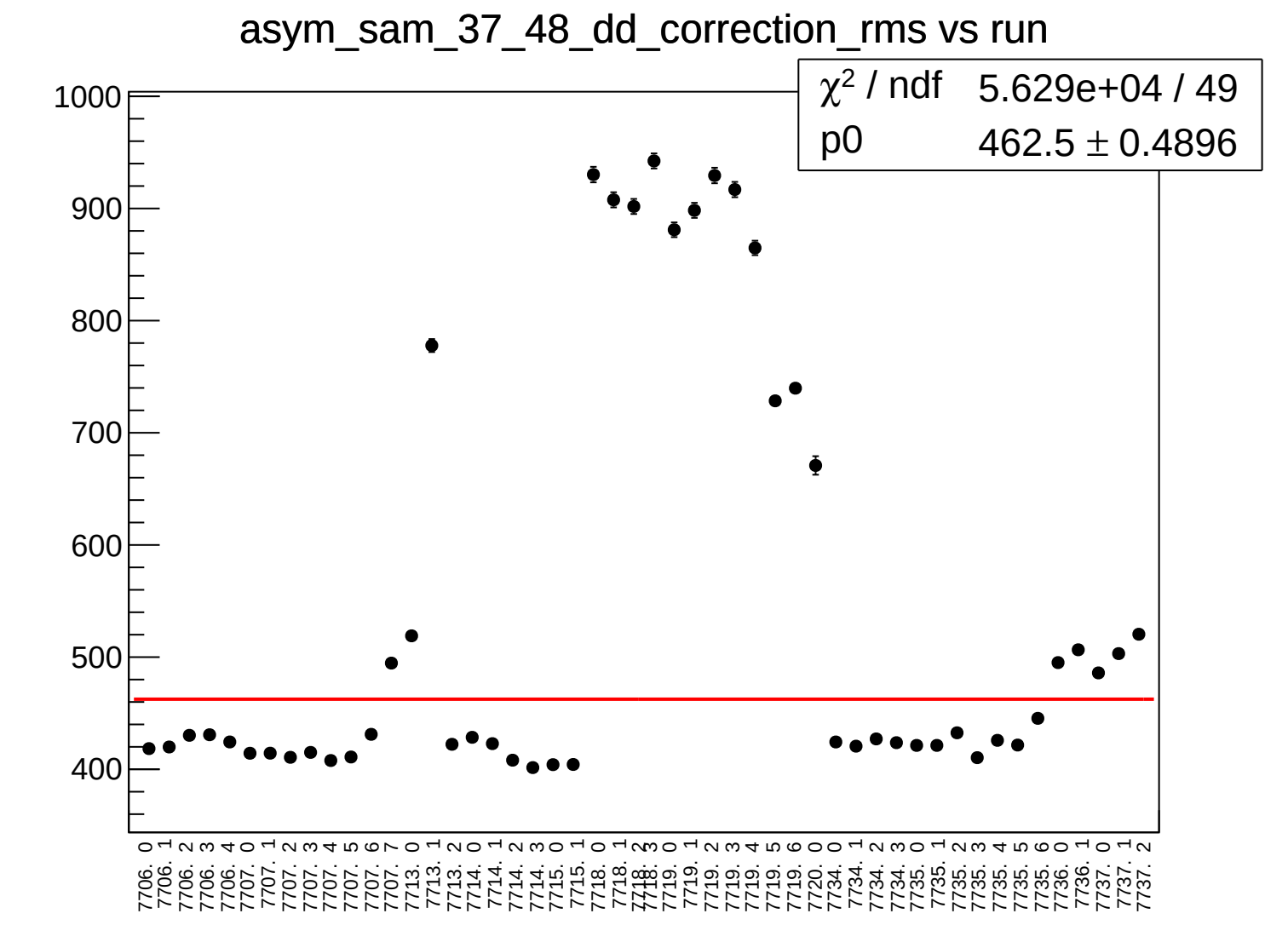
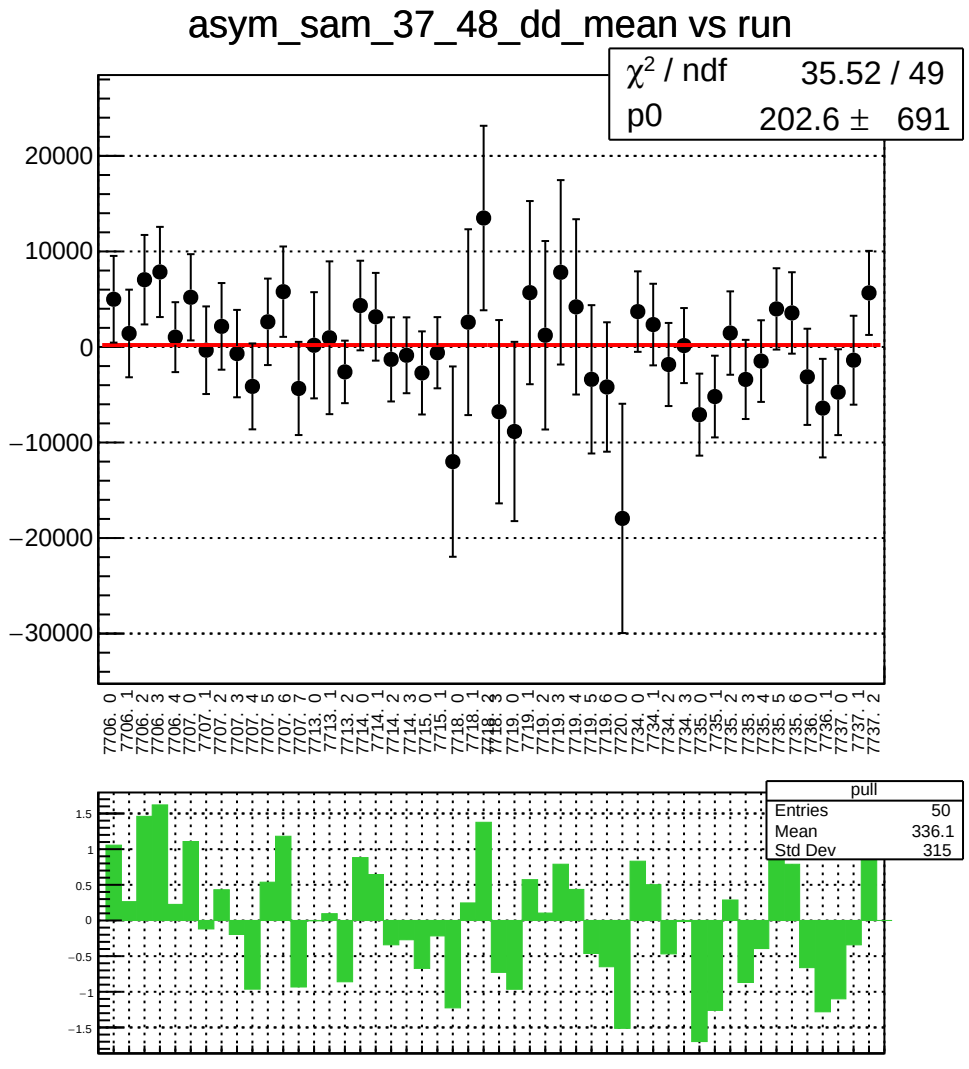
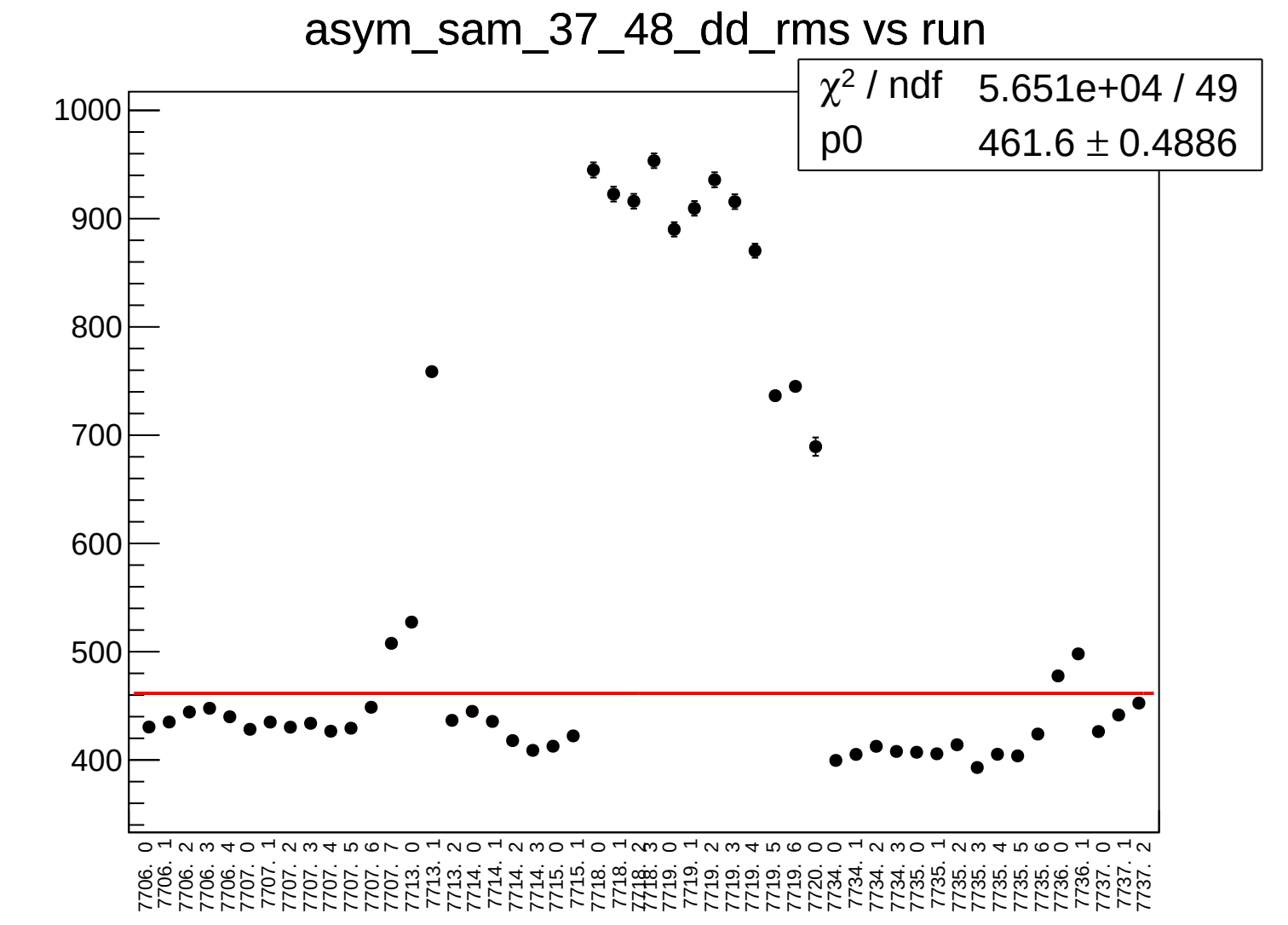
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 35.57 / 49
p0 −292.4 ± 692.3
30000
20000
10000
0
−10000
−20000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 216.1
Std Dev 195.8
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.01997
Std Dev 0.8432
9
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 5.629e+04 / 49
p0 462.5 ± 0.4896
1000
900
800
700
600
500
400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_37_48_dd_mean vs run
χ² / ndf 35.52 / 49
p0 202.6 ± 691
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7719. 7
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 336.1
Std Dev 315
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01271
Std Dev 0.8428
9
8
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 5.651e+04 / 49
p0 461.6 ± 0.4886
1000
900
800
700
600
500
400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
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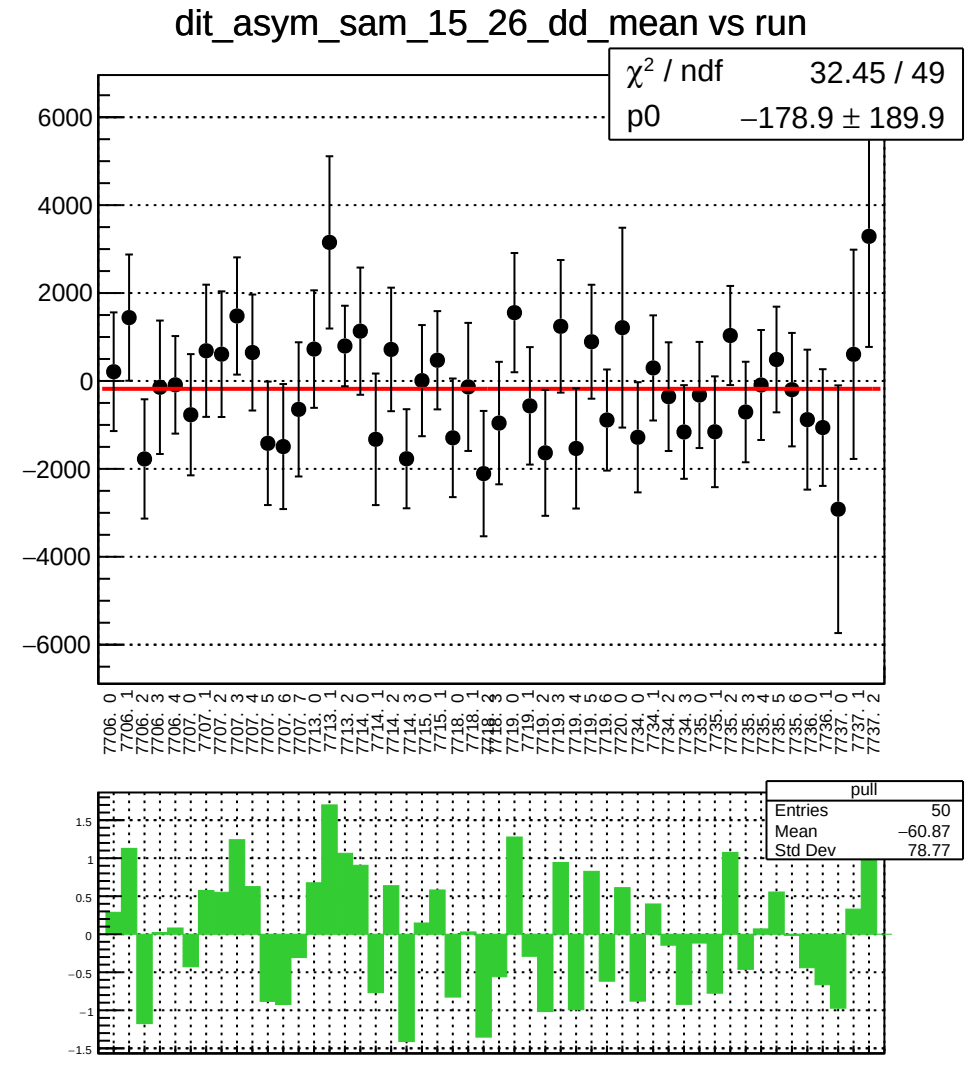
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 32.45 / 49
p0 −178.9 ± 189.9
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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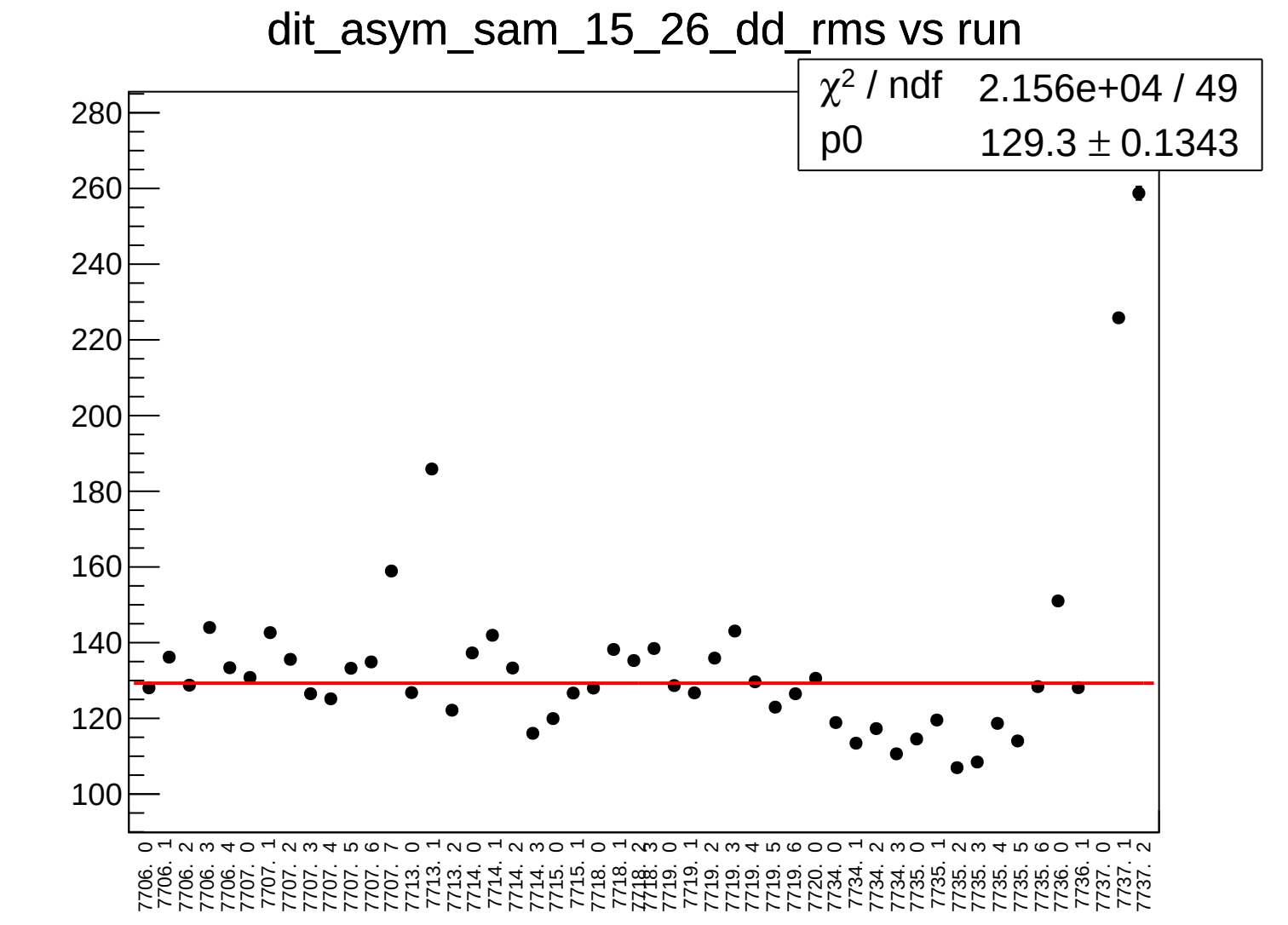
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −60.87
Std Dev 78.77
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01582
Std Dev 0.8055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.156e+04 / 49
p0 129.3 ± 0.1343
280
260
240
220
200
180
160
140
120
100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
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7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
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7714. 3
7715. 0
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7718. 0
7718. 1
7719. 0
7719. 1
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7734. 0
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7734. 2
7734. 3
7735. 0
7735. 1
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7735. 6
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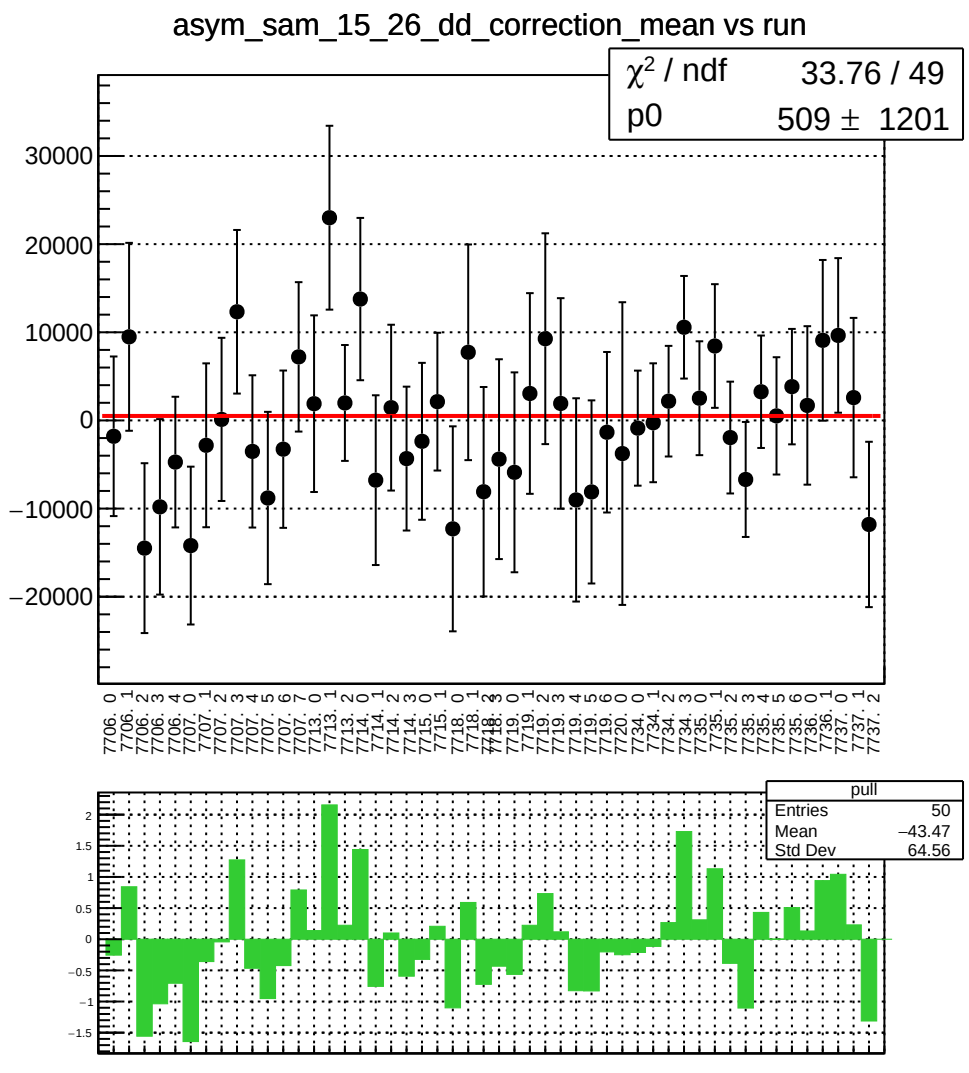
7737. 1
7737. 2


asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 33.76 / 49
p0 509 ± 1201
30000
20000
10000
0
−10000
−20000
7706. 0
7706. 1
7706. 2
7706. 3
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7707. 0
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7718. 2
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7719. 6
7720. 0
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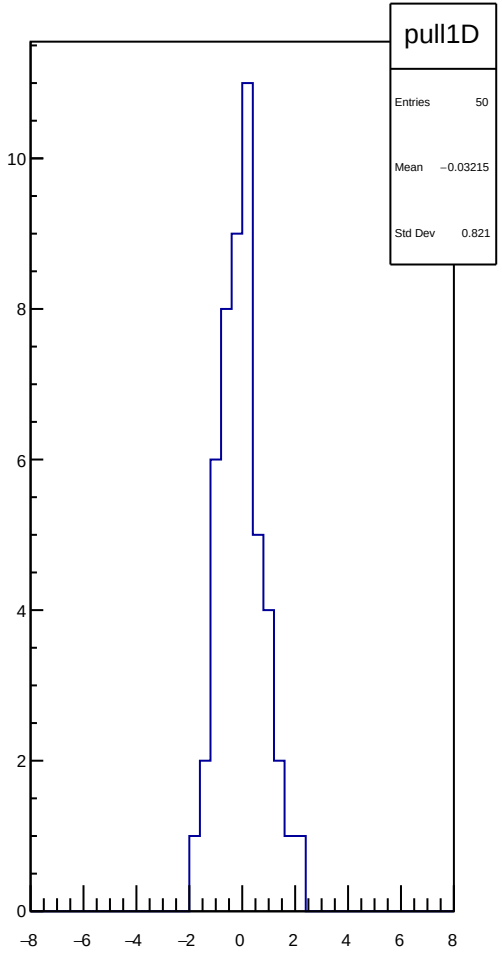
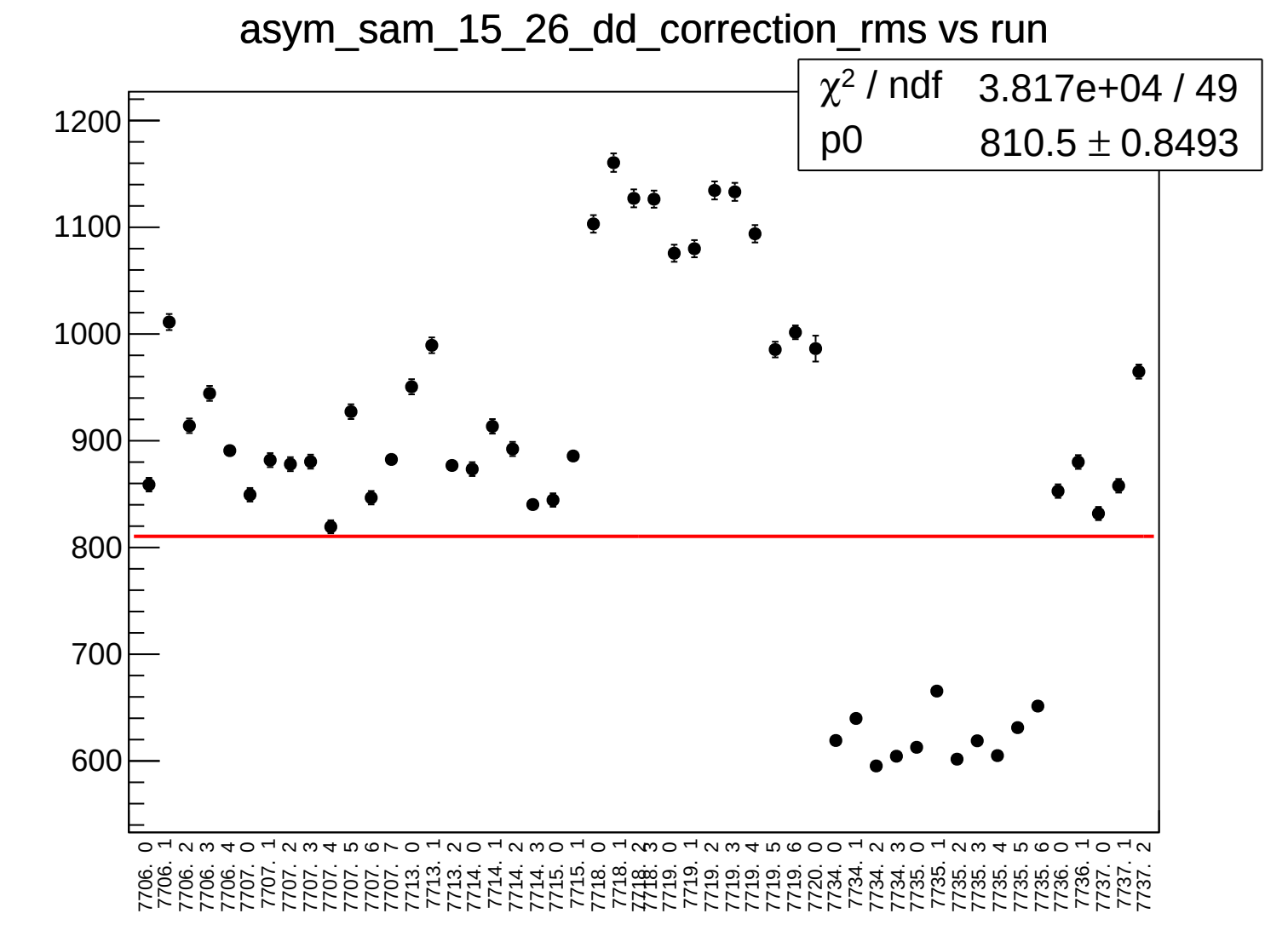
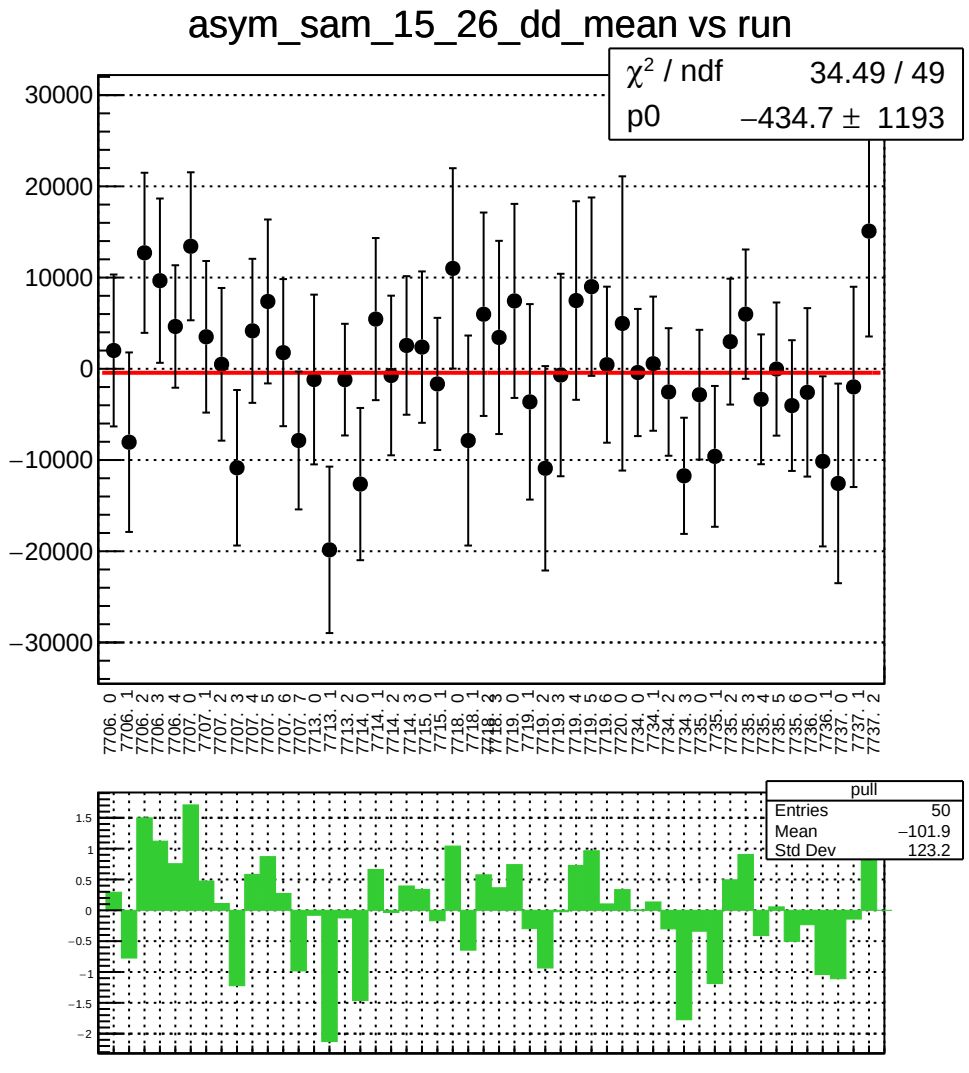
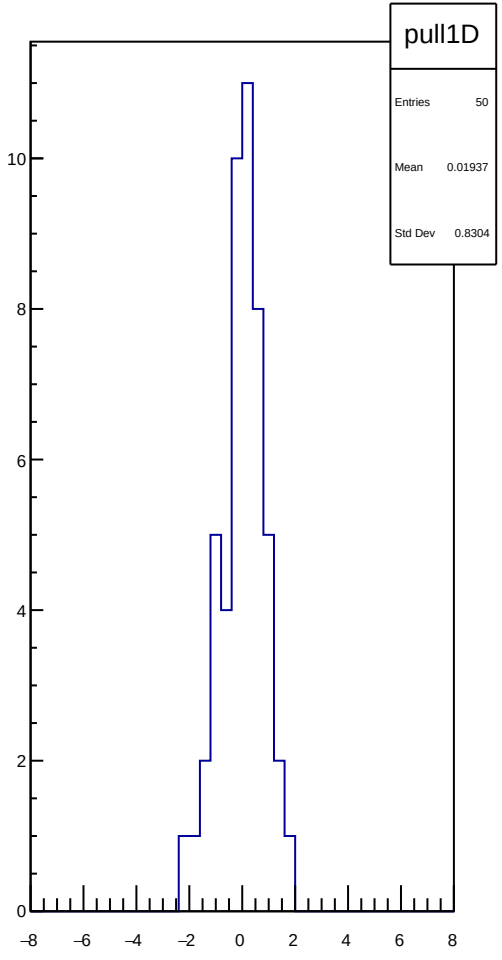
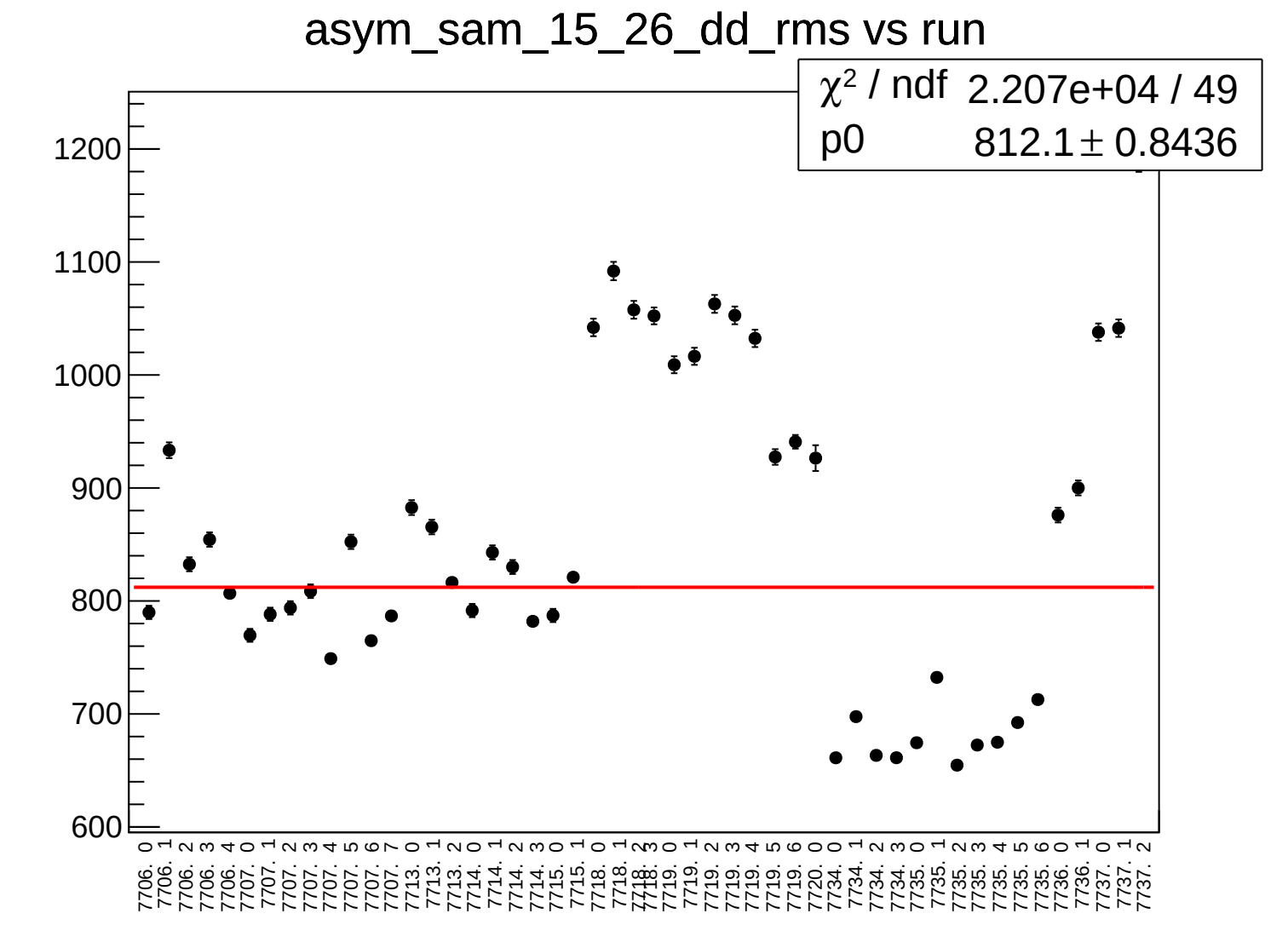
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −43.47
Std Dev 64.56
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.03215
Std Dev 0.821
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 3.817e+04 / 49
p0 810.5 ± 0.8493
1200
1100
1000
900
800
700
600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_15_26_dd_mean vs run
χ² / ndf 34.49 / 49
p0 −434.7 ± 1193
30000
20000
10000
0
−10000
−20000
−30000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −101.9
Std Dev 123.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.01937
Std Dev 0.8304
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 2.207e+04 / 49
p0 812.1 ± 0.8436
1200
1100
1000
900
800
700
600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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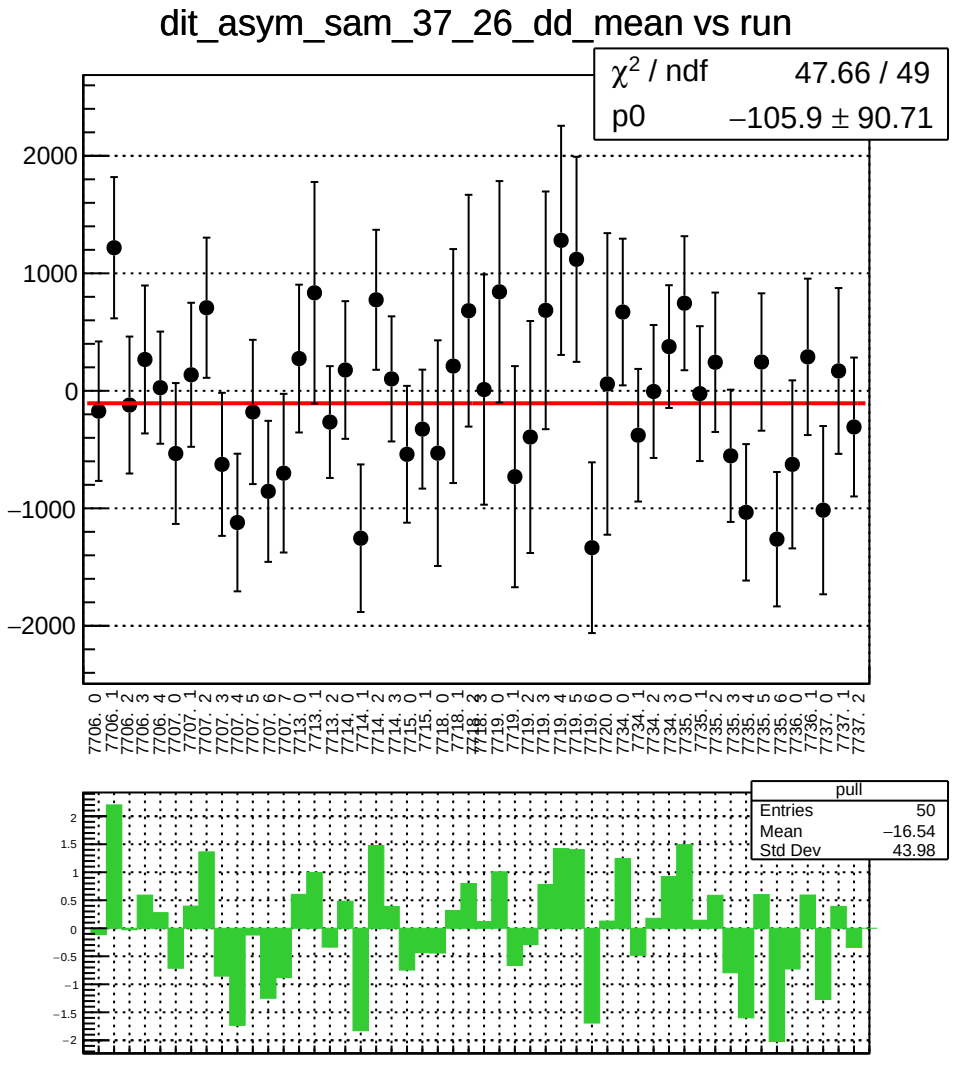
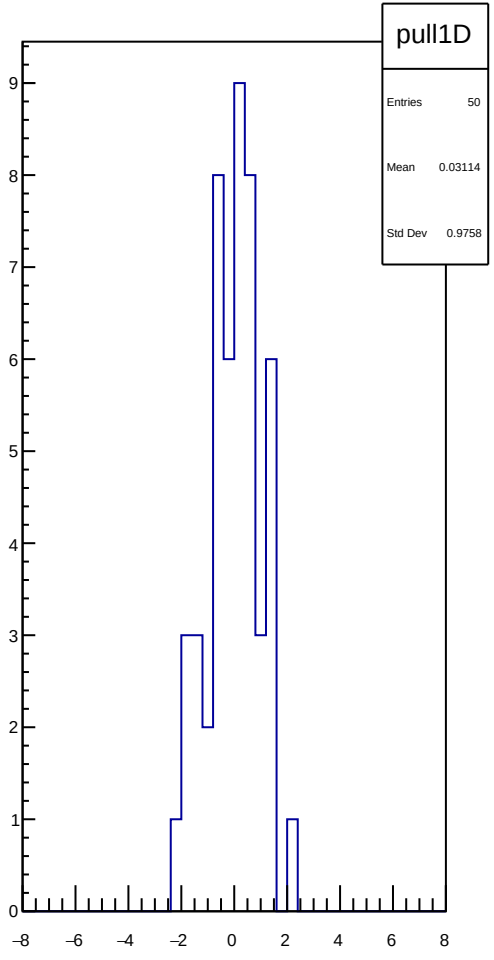
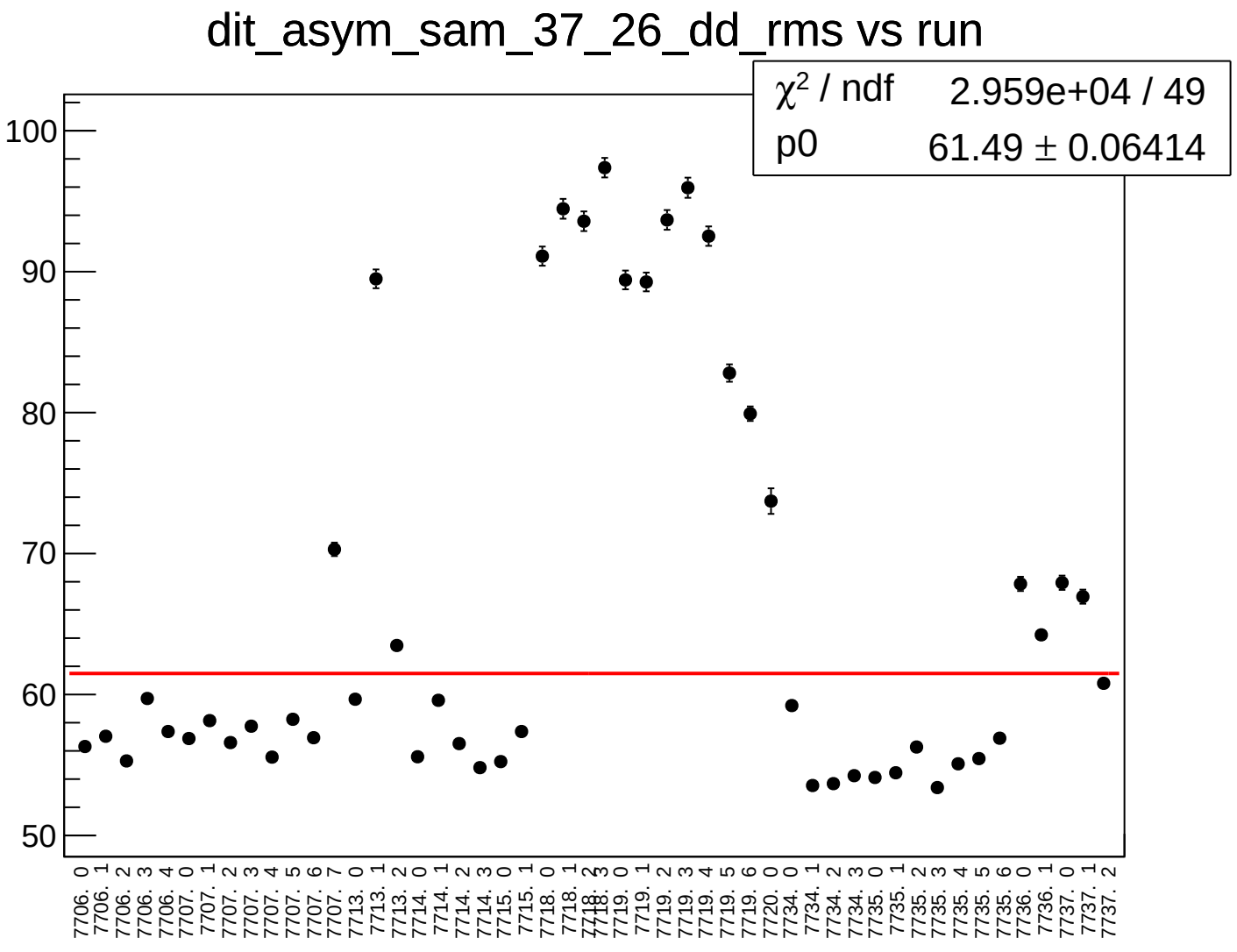
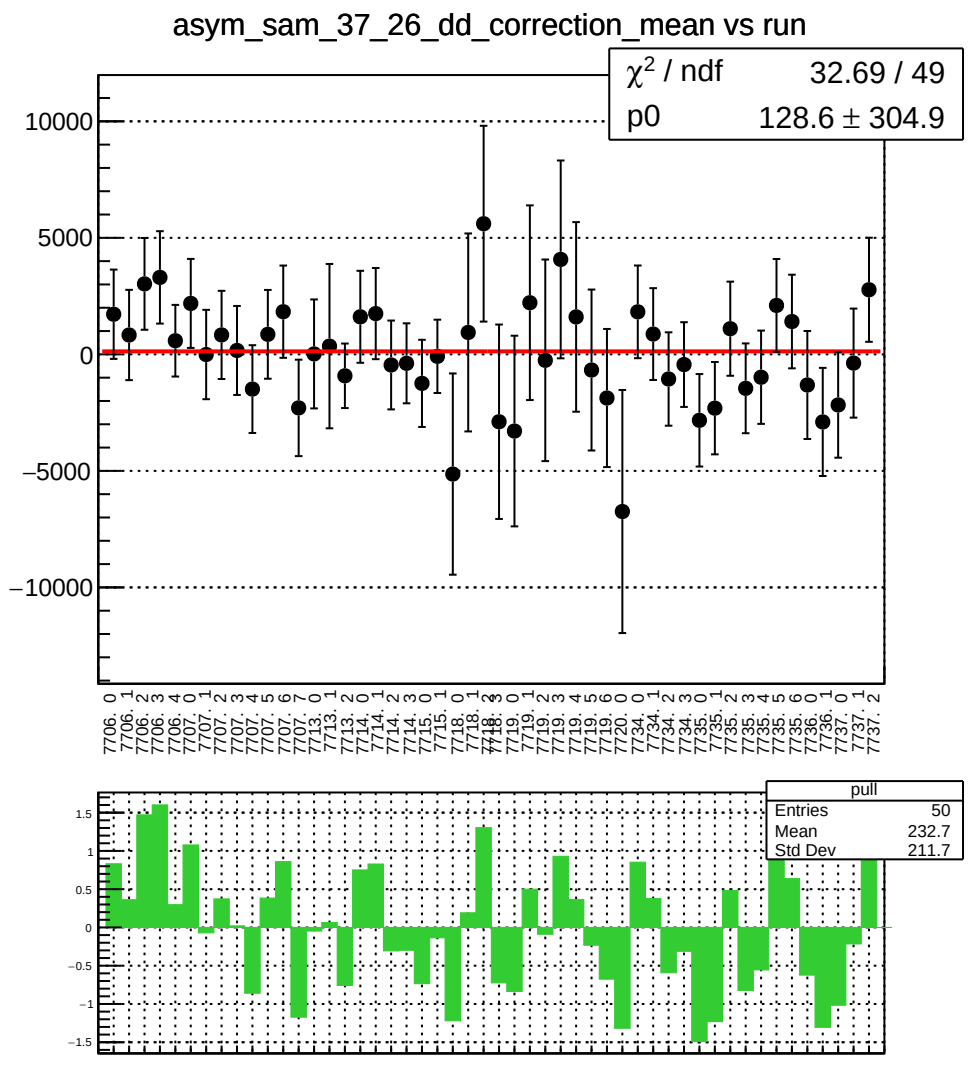
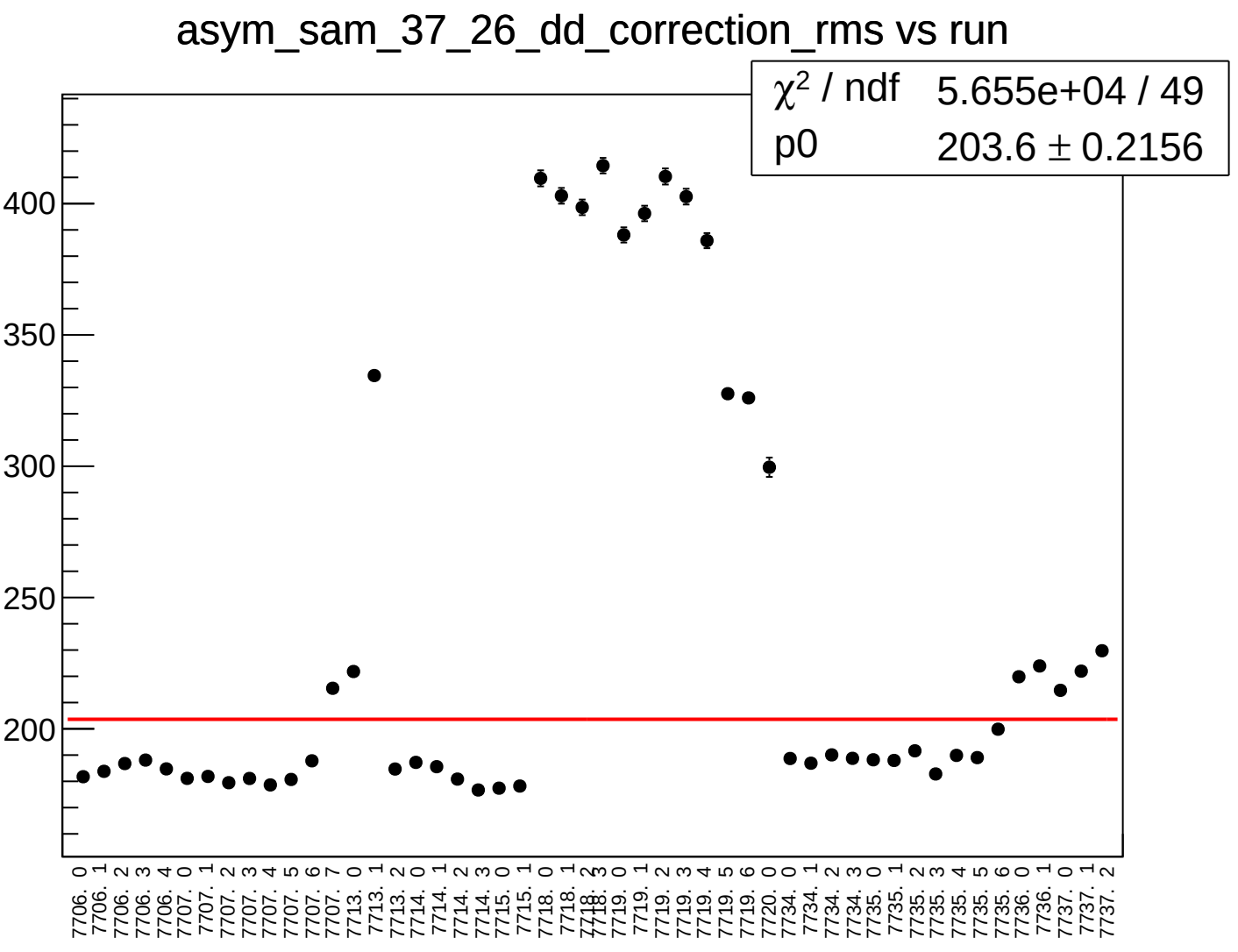
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 47.66 / 49
p0 −105.9 ± 90.71
2000
1000
0
−1000
−2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −16.54
Std Dev 43.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 50
Mean 0.03114
Std Dev 0.9758
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
χ² / ndf 2.959e+04 / 49
p0 61.49 ± 0.06414
100
90
80
70
60
50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 32.69 / 49
p0 128.6 ± 304.9
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 232.7
Std Dev 211.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.01811
Std Dev 0.8084
9
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 5.655e+04 / 49
p0 203.6 ± 0.2156
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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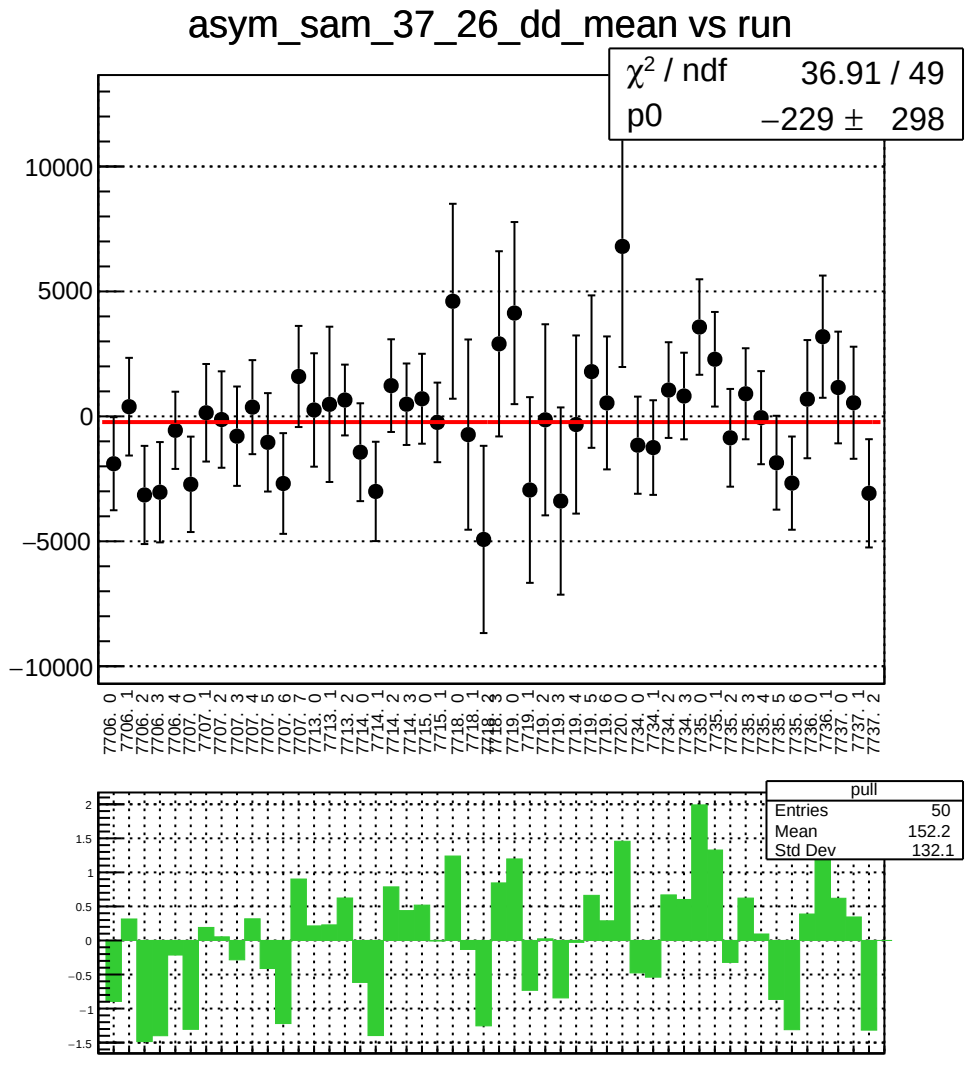
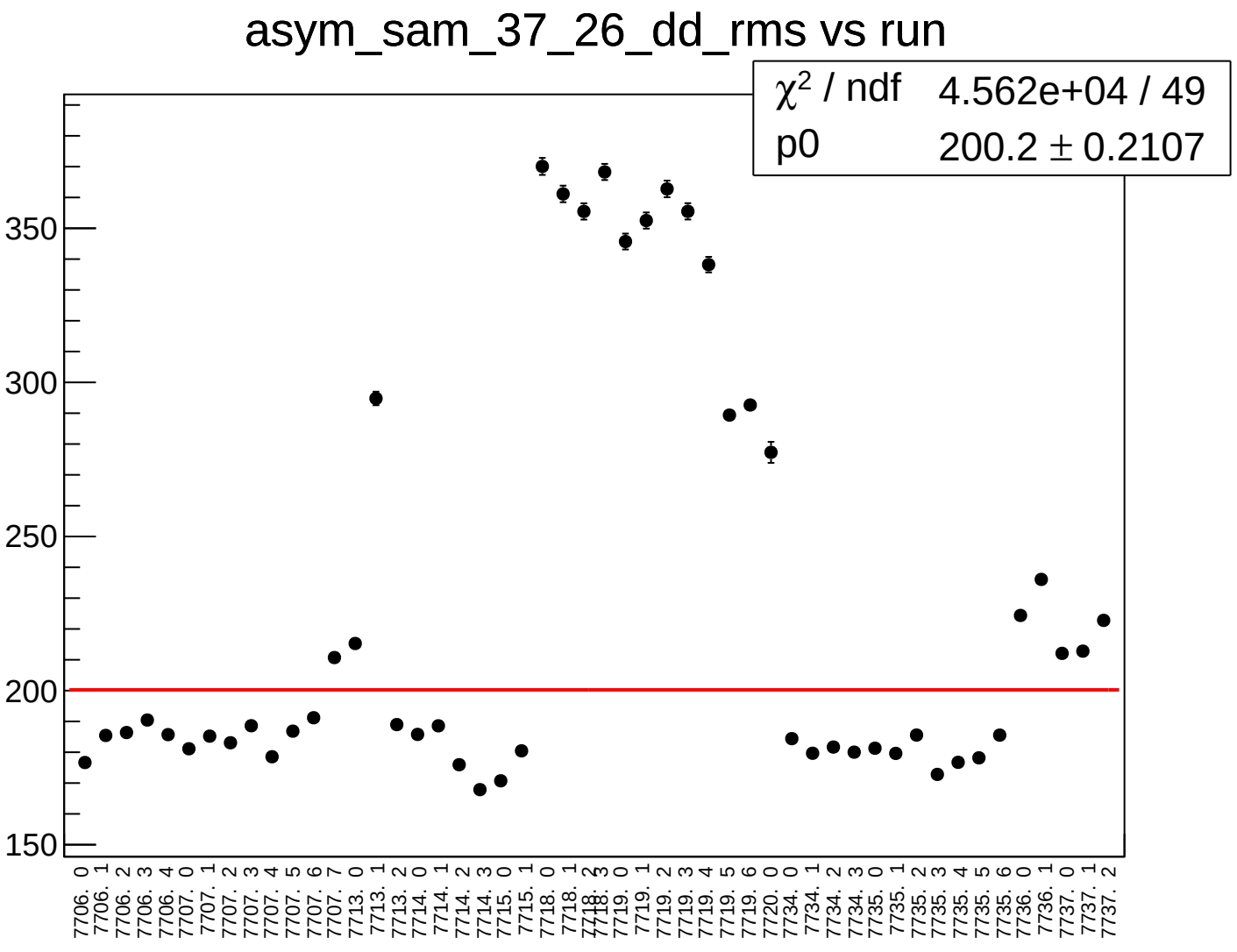
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_37_26_dd_mean vs run
χ² / ndf 36.91 / 49
p0 −229 ± 298
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 152.2
Std Dev 132.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.02623
Std Dev 0.8588
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_26_dd_rms vs run
χ² / ndf 4.562e+04 / 49
p0 200.2 ± 0.2107
350
300
250
200
150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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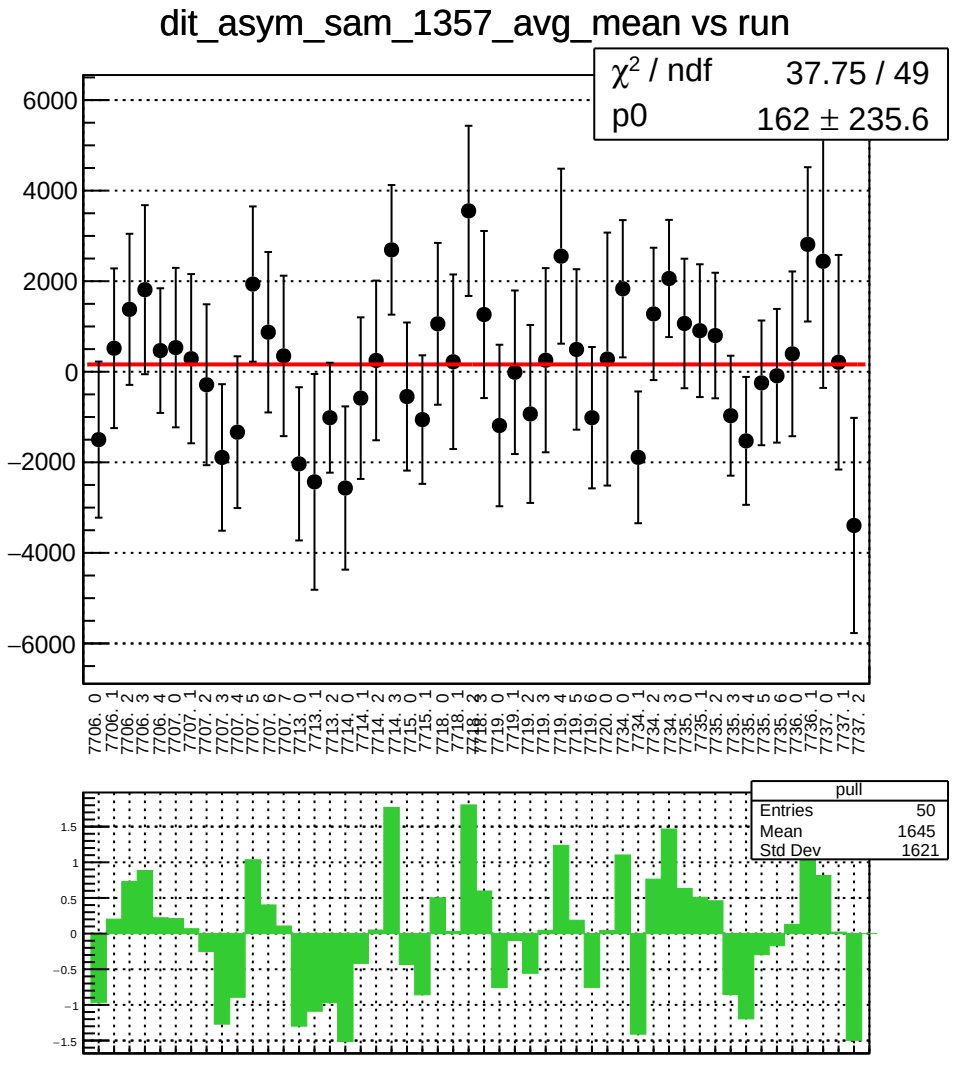
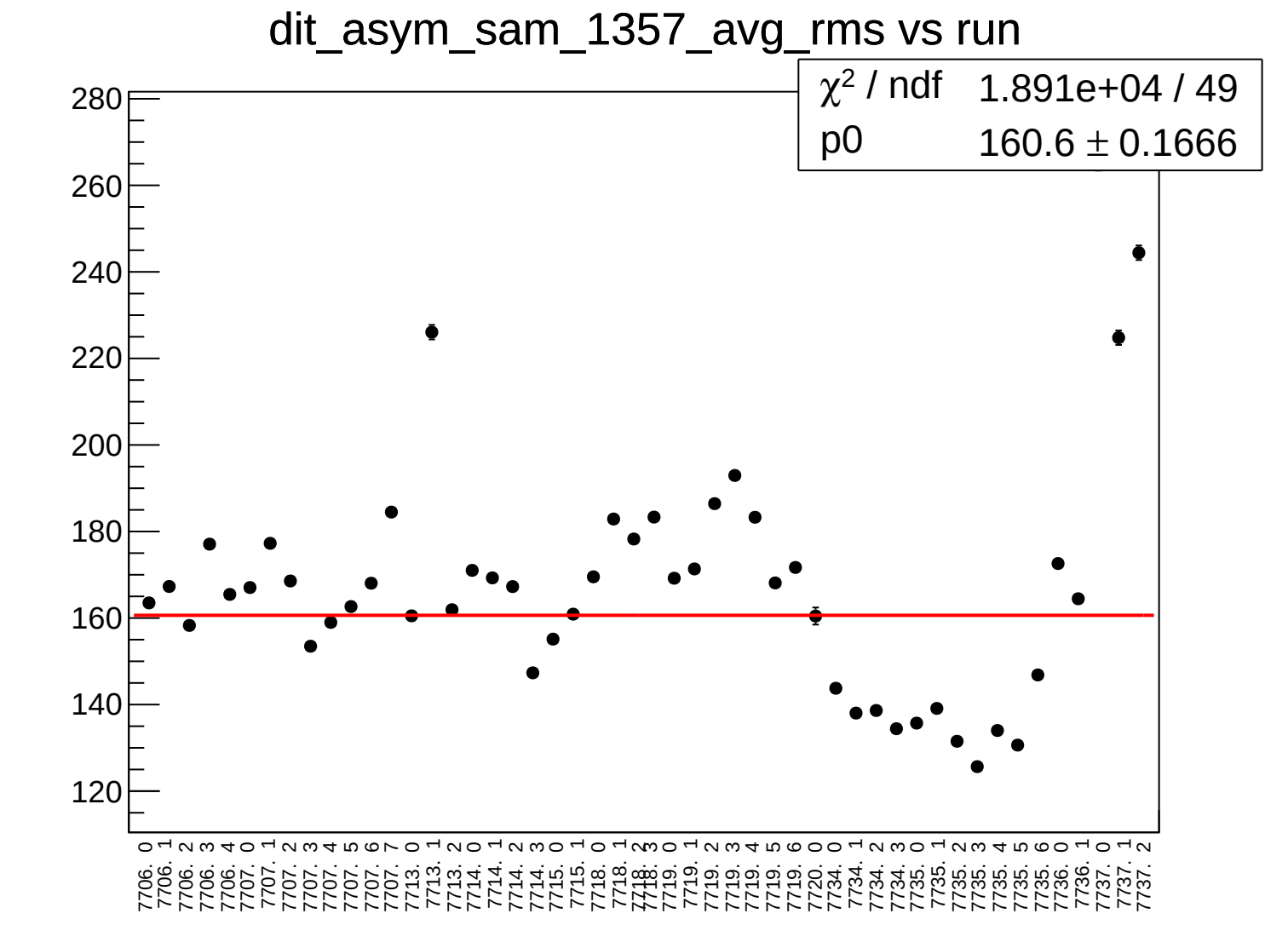
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_1357_avg_mean vs run
χ² / ndf 37.75 / 49
p0 162 ± 235.6
6000
4000
2000
0
−2000
−4000
−6000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 1645
Std Dev 1621
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.0006839
Std Dev 0.8689
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.891e+04 / 49
p0 160.6 ± 0.1666
280
260
240
220
200
180
160
140
120
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
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7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
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7714. 1
7714. 2
7714. 3
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7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
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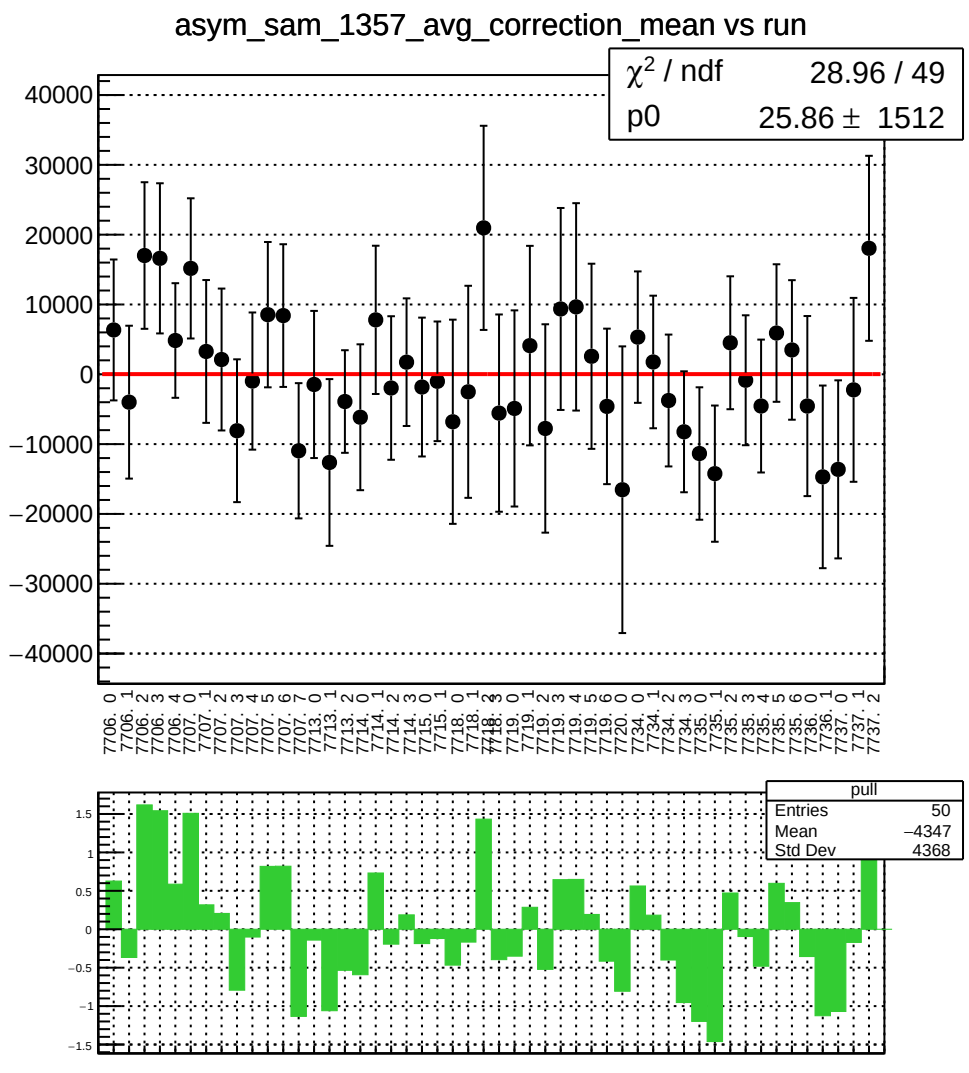
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_1357_avg_correction_mean vs run
χ² / ndf 28.96 / 49
p0 25.86 ± 1512
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
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7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7714. 2
7714. 3
7715. 0
7715. 1
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7718. 1
7718. 3
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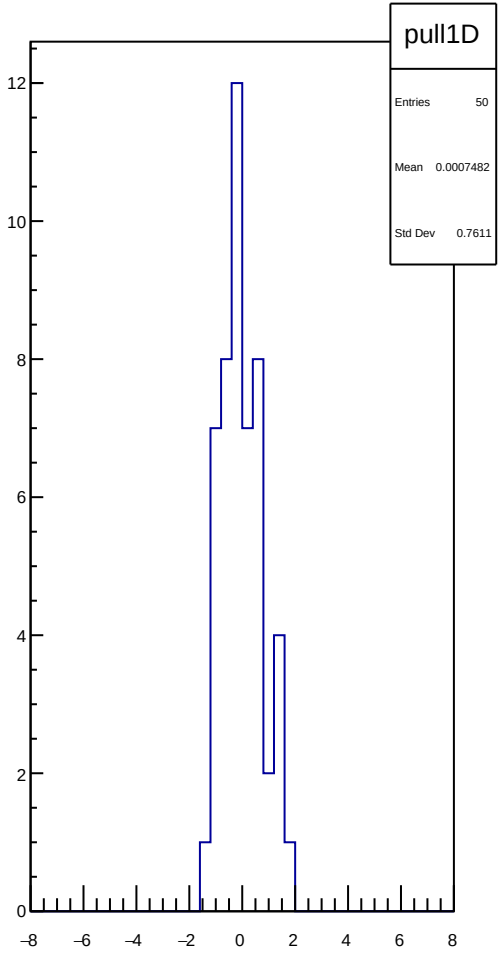
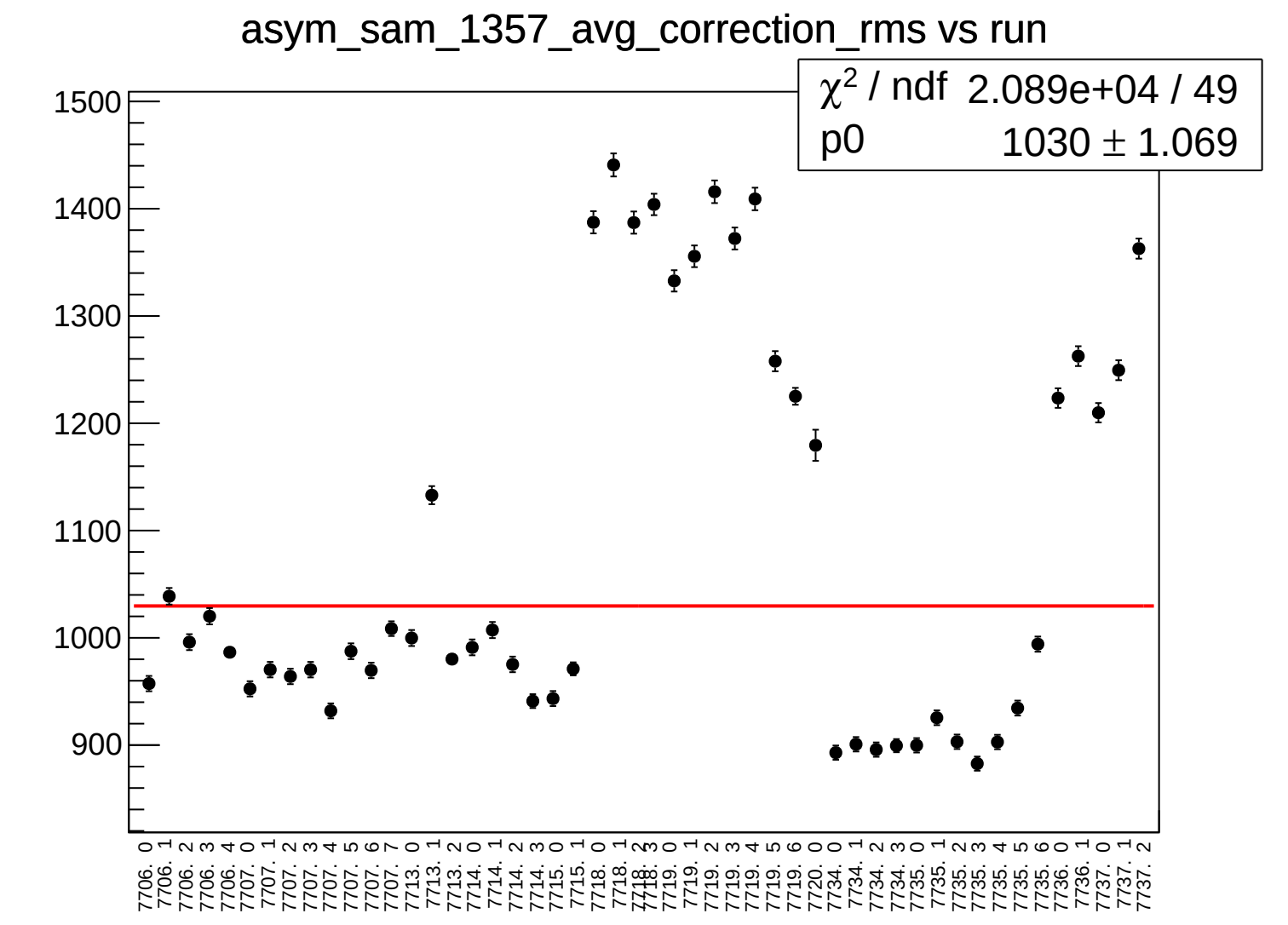
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −4347
Std Dev 4368
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.0007482
Std Dev 0.7611
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2.089e+04 / 49
p0 1030 ± 1.069
1500
1400
1300
1200
1100
1000
900
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
7714. 0
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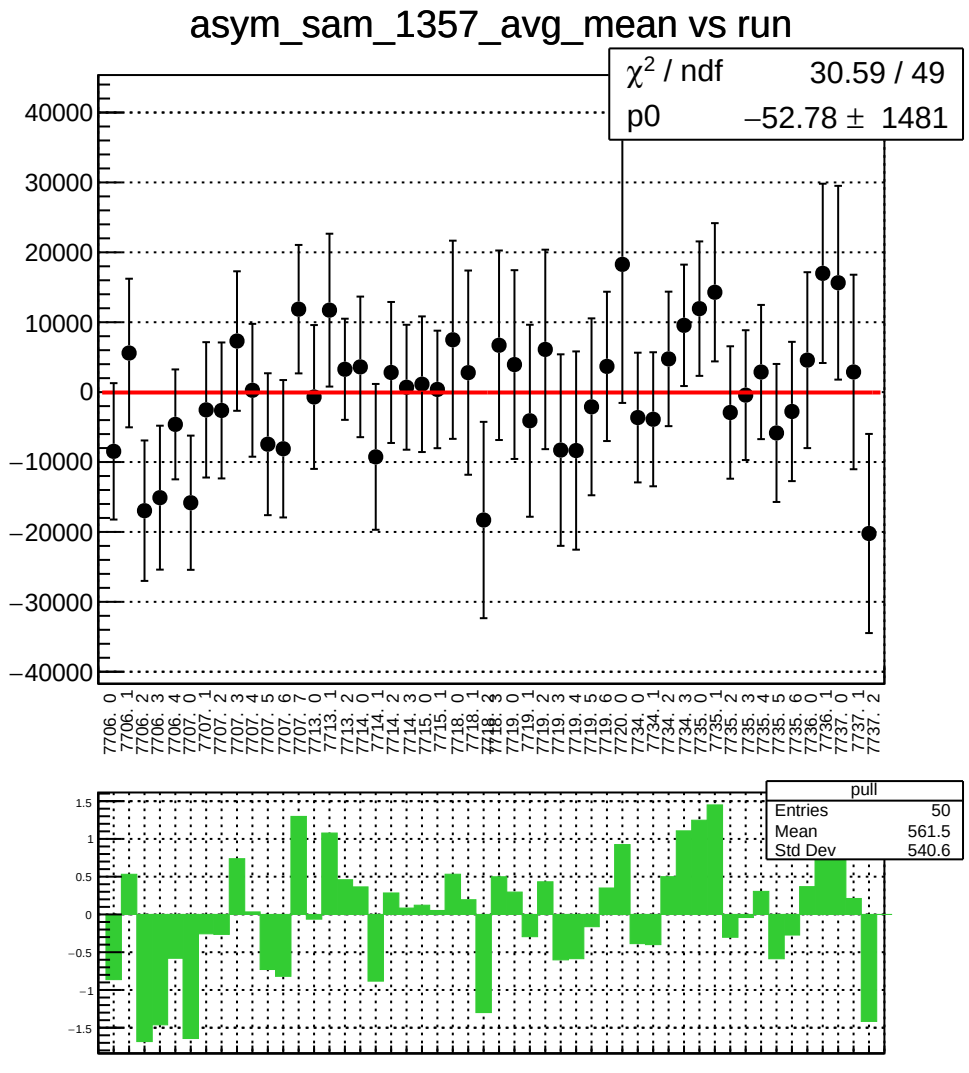
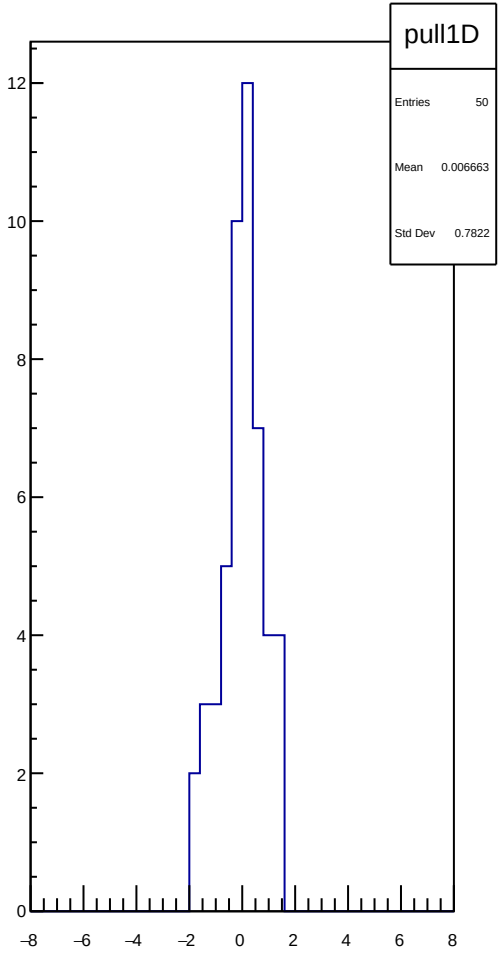
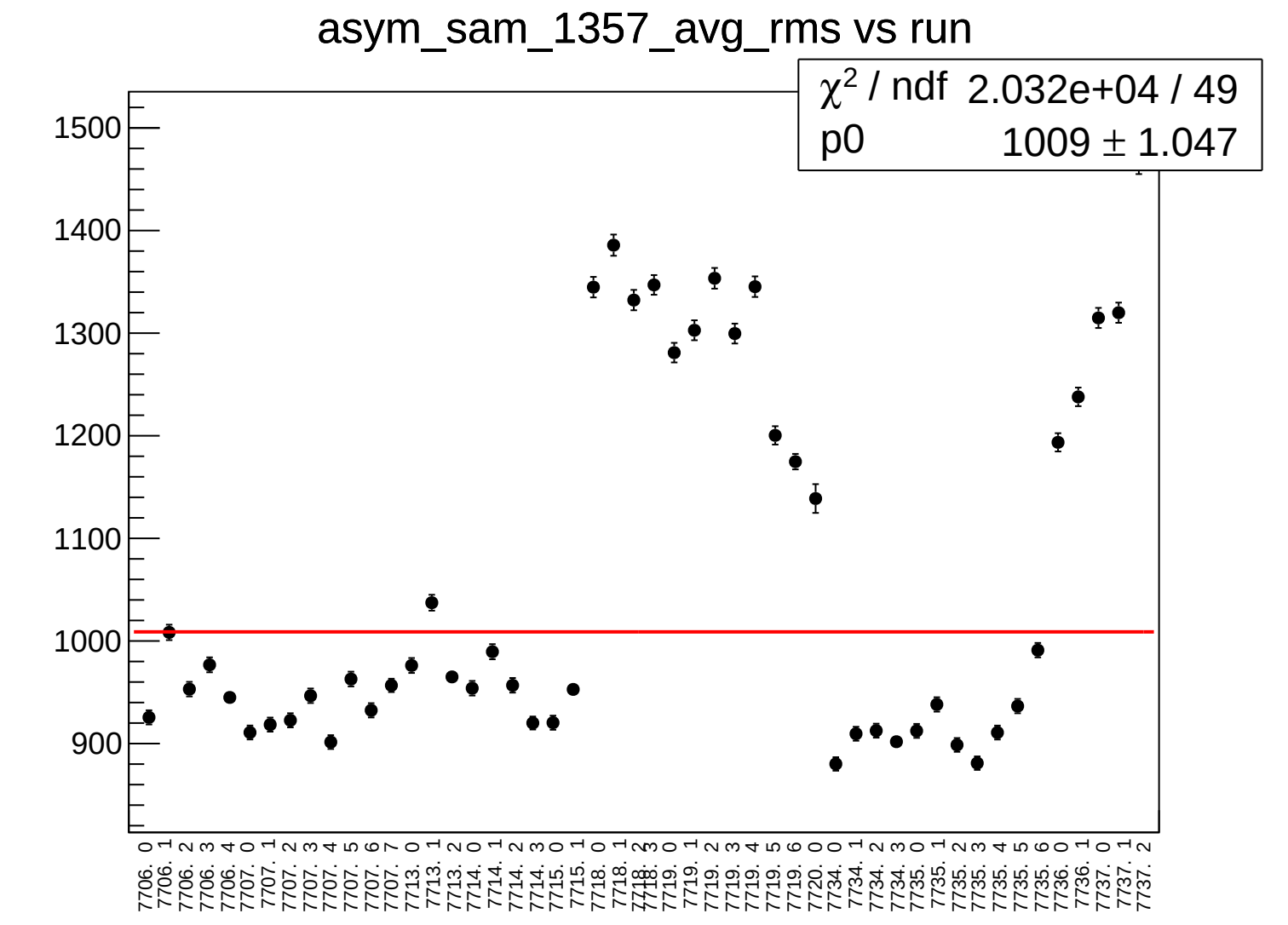
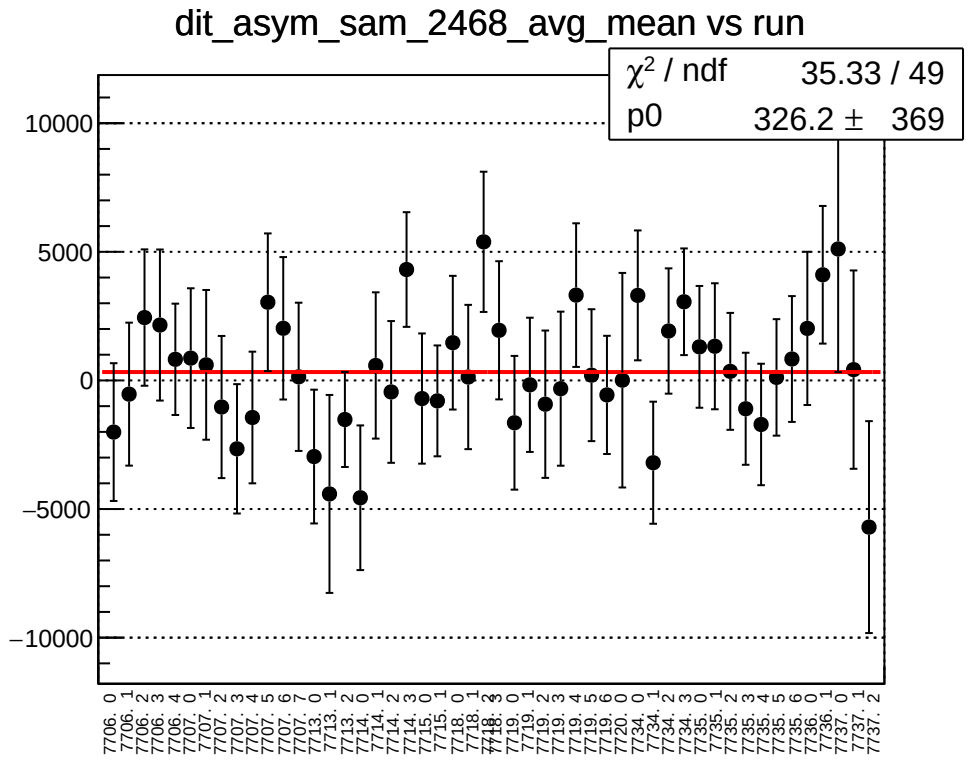
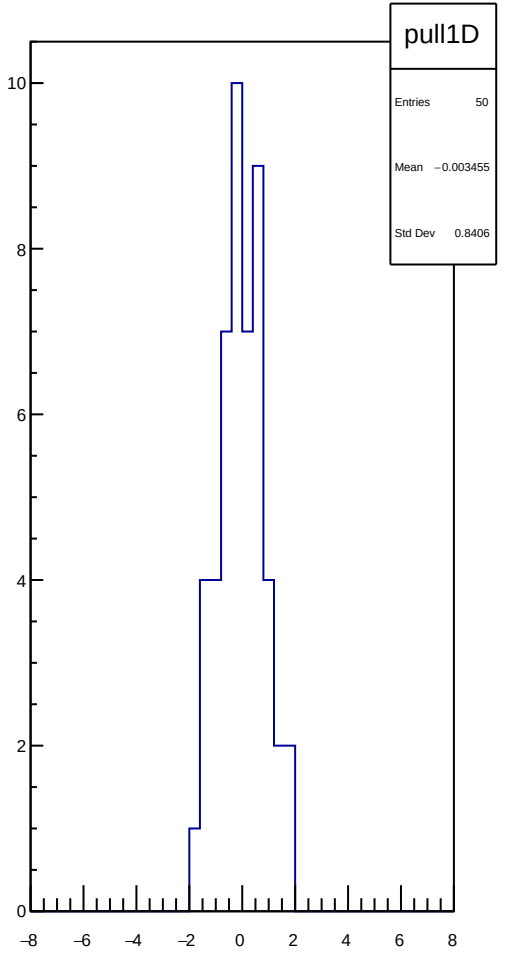
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

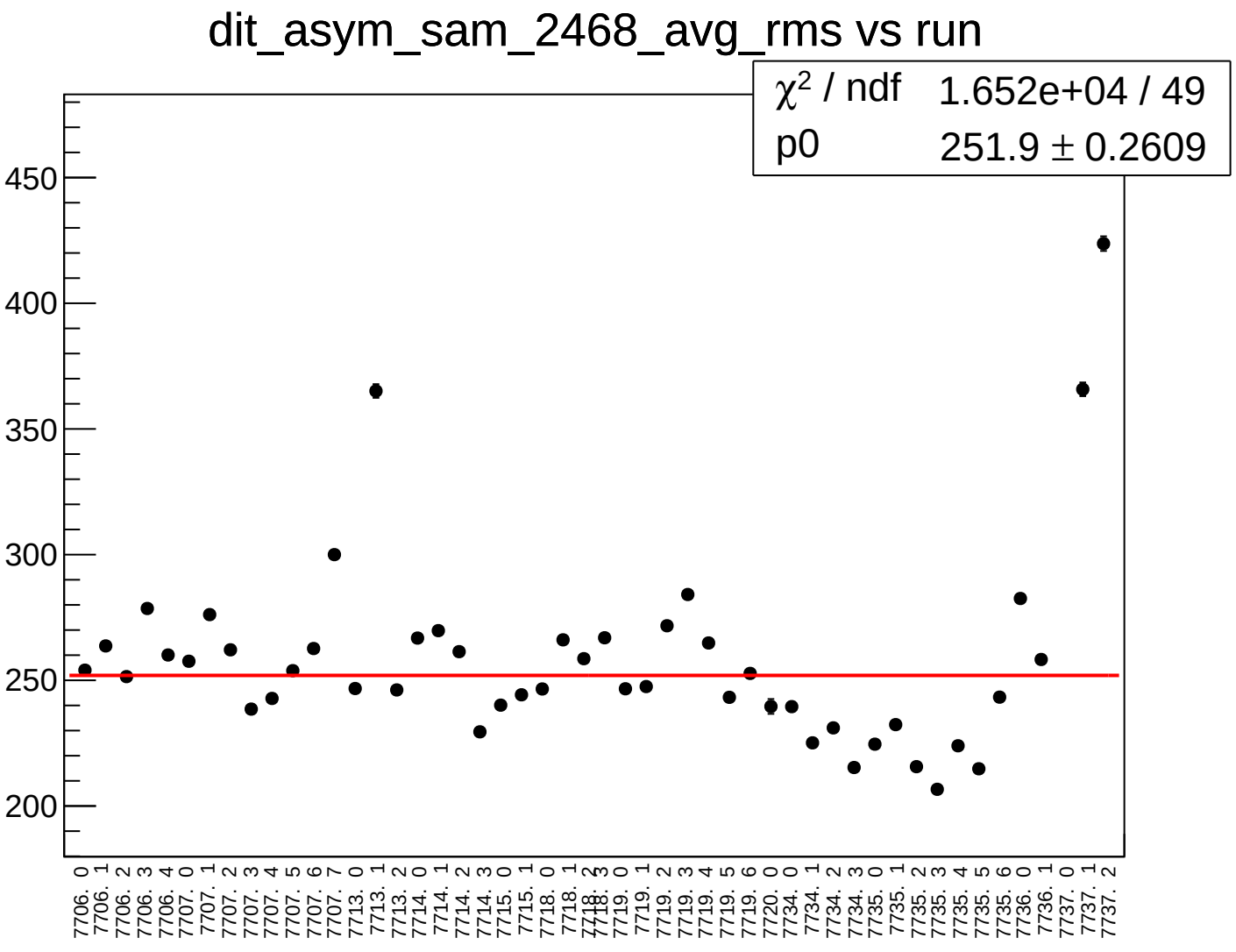

asym_sam_1357_avg_mean vs run
χ² / ndf 30.59 / 49
p0 −52.78 ± 1481
pull
Entries 50
Mean 561.5
Std Dev 540.6

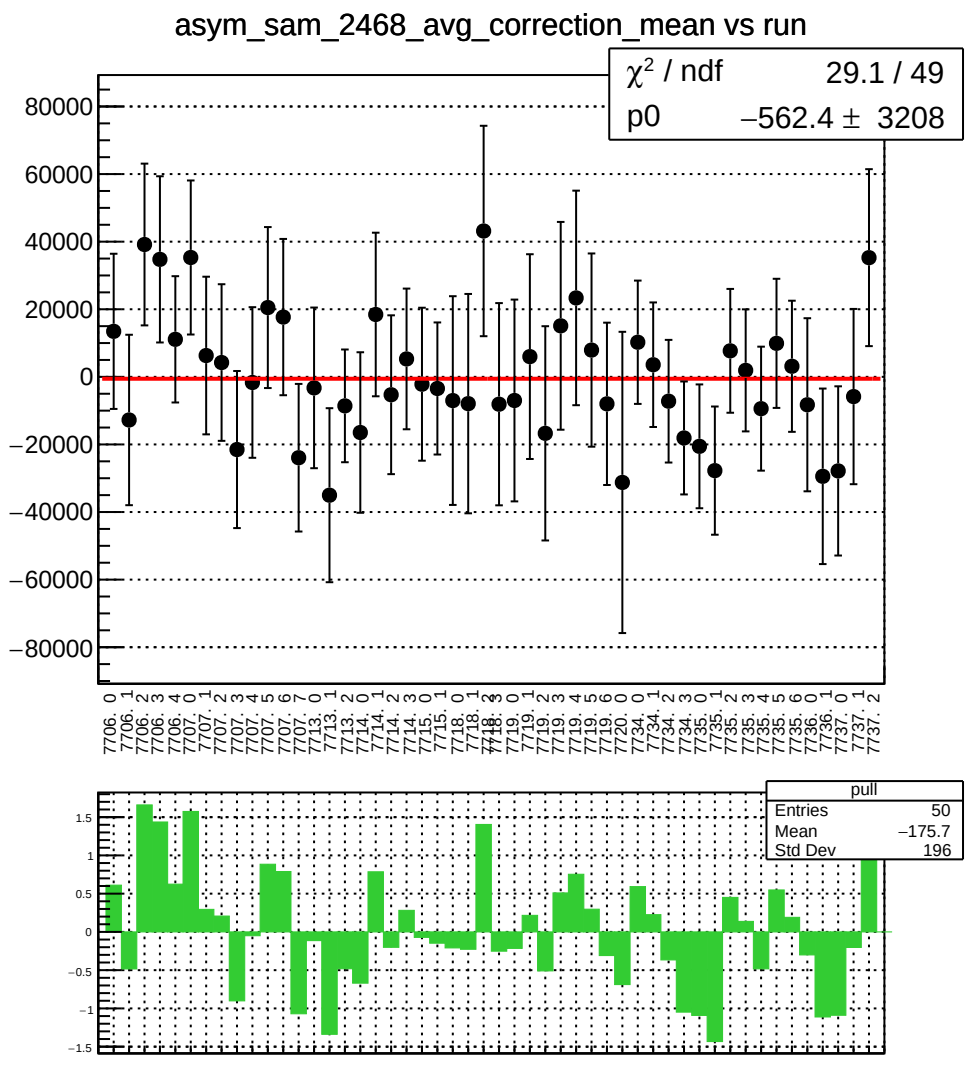

pull1D
Entries 50
Mean 0.006663
Std Dev 0.7822

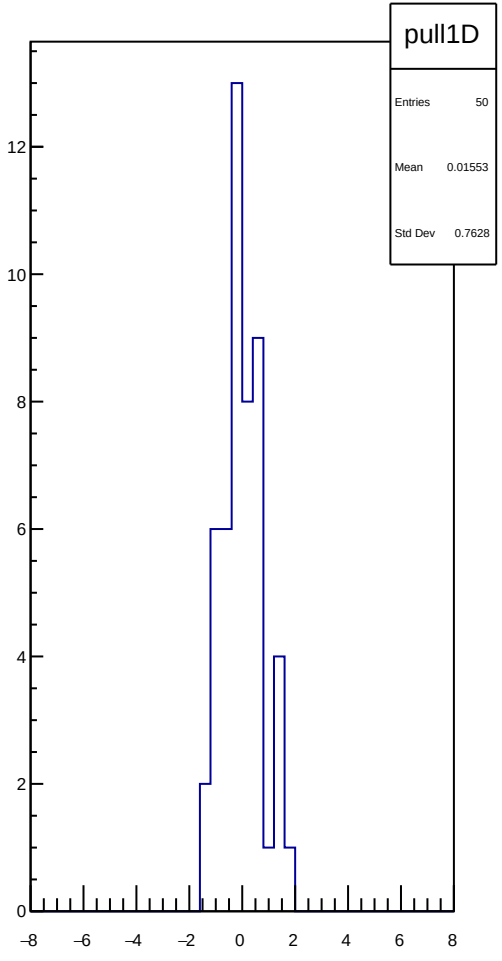

asym_sam_1357_avg_rms vs run
χ² / ndf 2.032e+04 / 49
p0 1009 ± 1.047
1500
1400
1300
1200
1100
1000
900
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

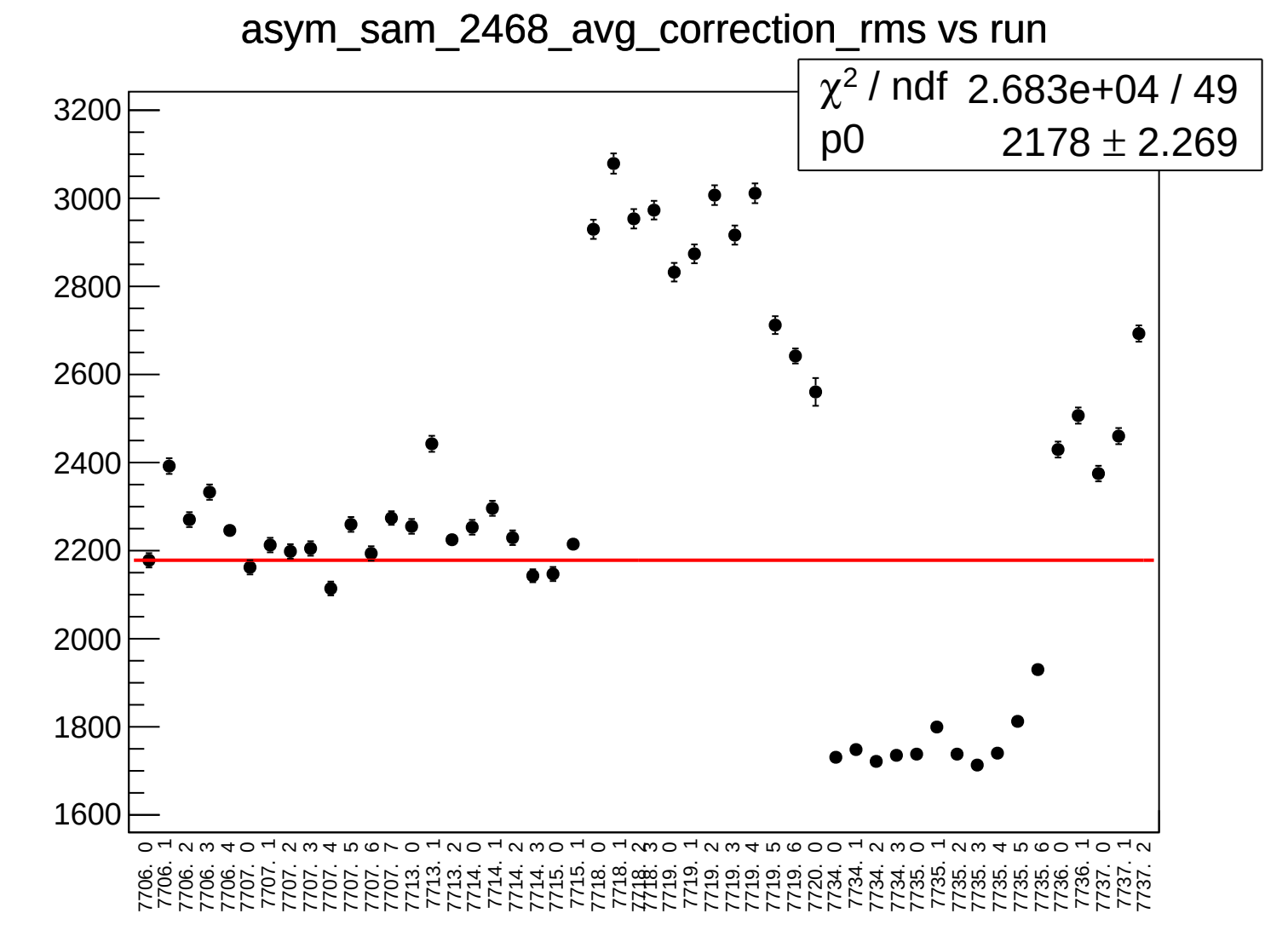

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 35.33 / 49
p0 326.2 ± 369
10000
5000
0
−5000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −459
Std Dev 483.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

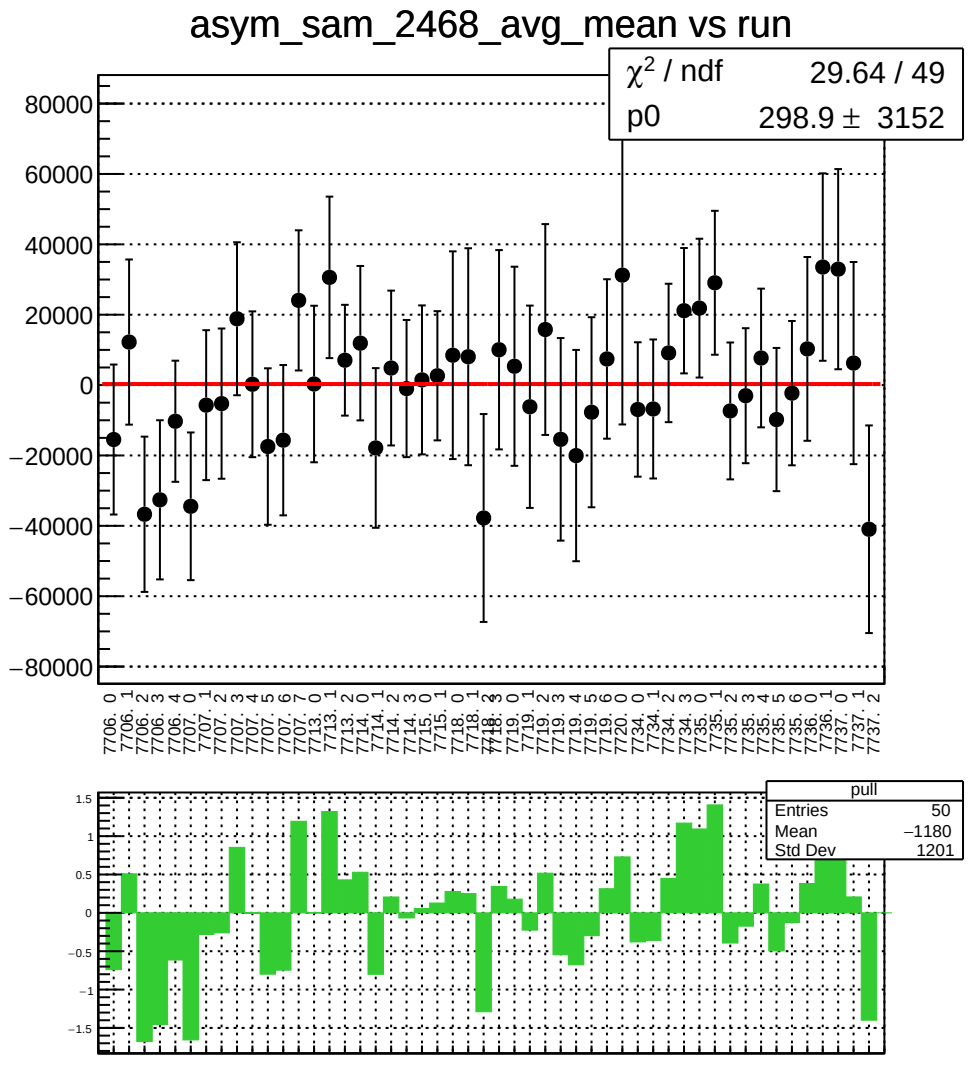

pull1D
Entries 50
Mean −0.003455
Std Dev 0.8406
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

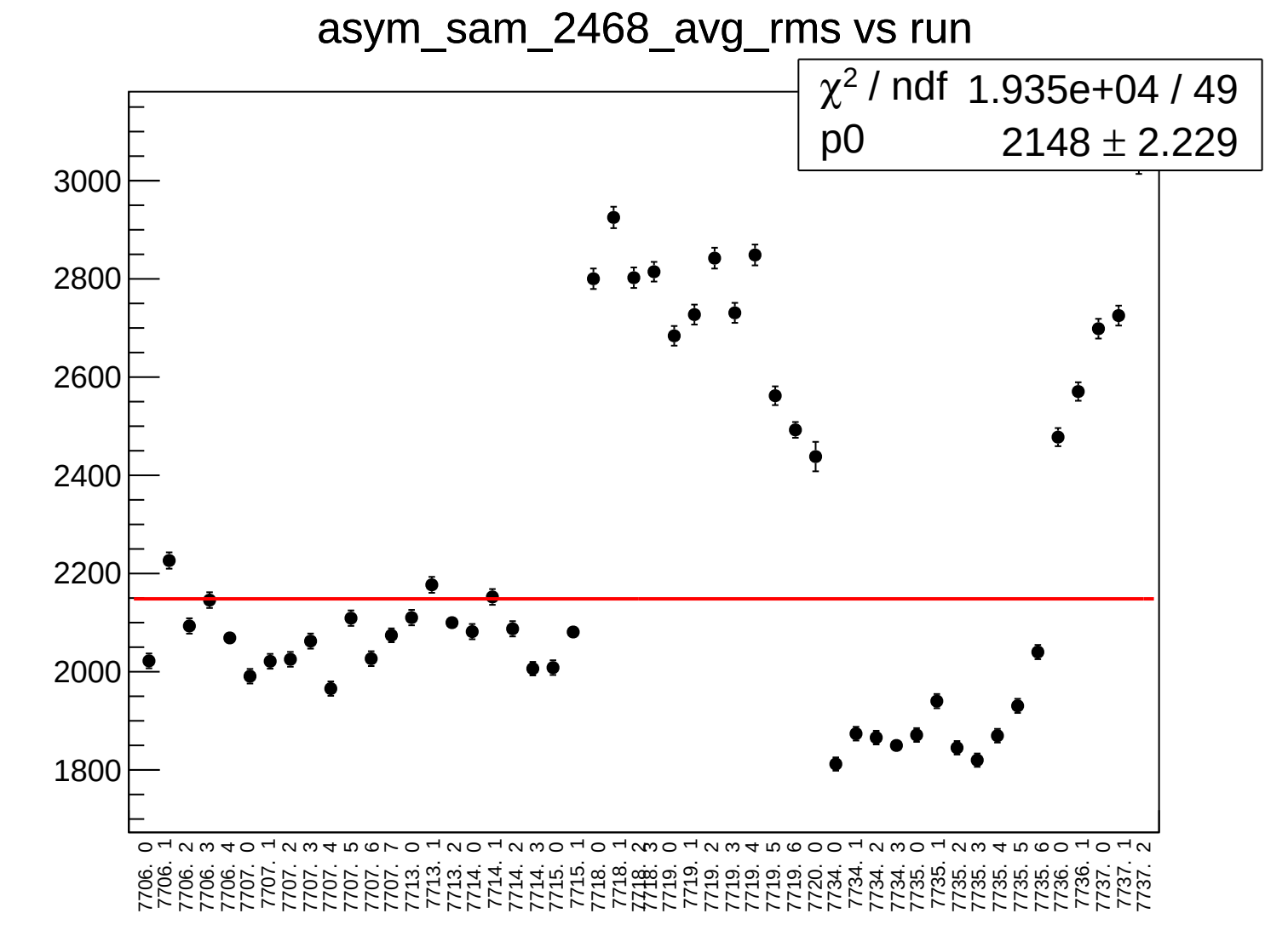

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.652e+04 / 49
p0 251.9 ± 0.2609
450
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

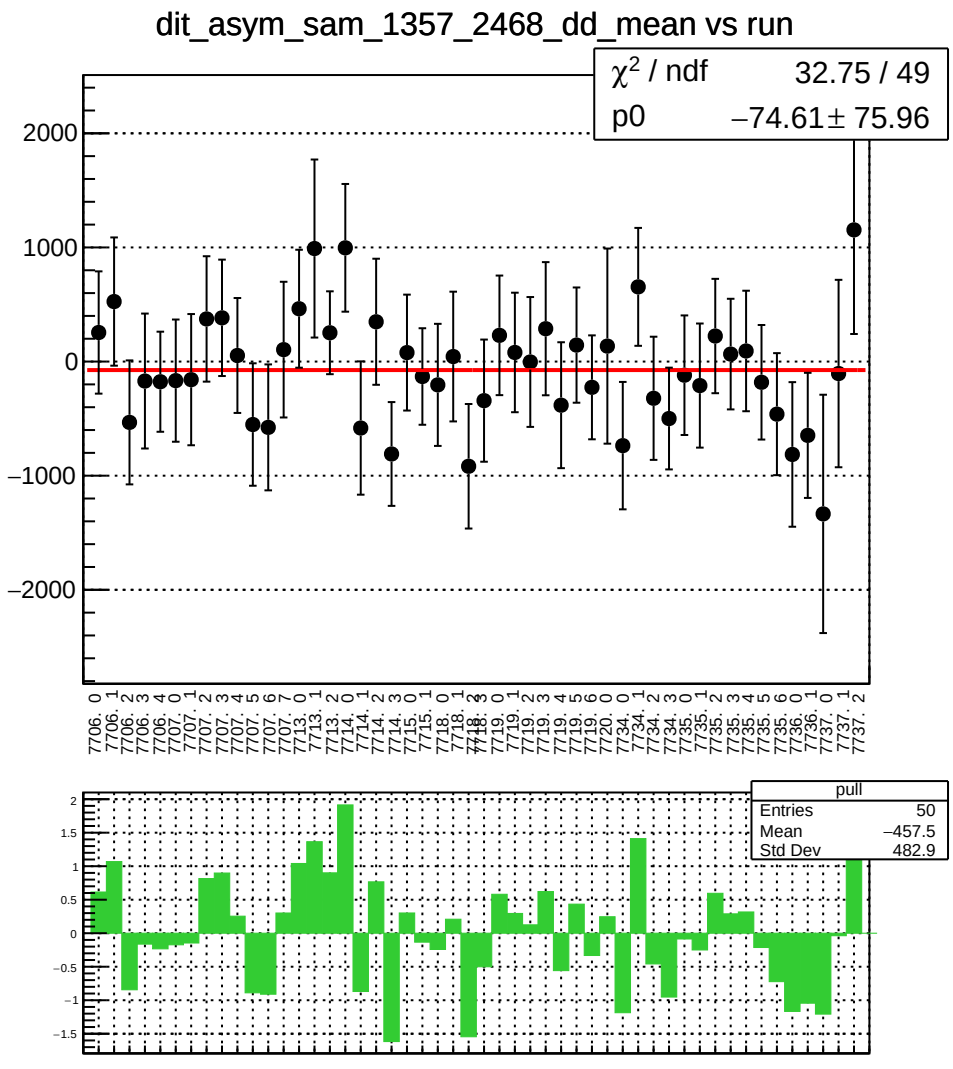

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 29.1 / 49
p0 −562.4 ± 3208
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −175.7
Std Dev 196
1.5
1
0.5
0
−0.5
−1
−1.5

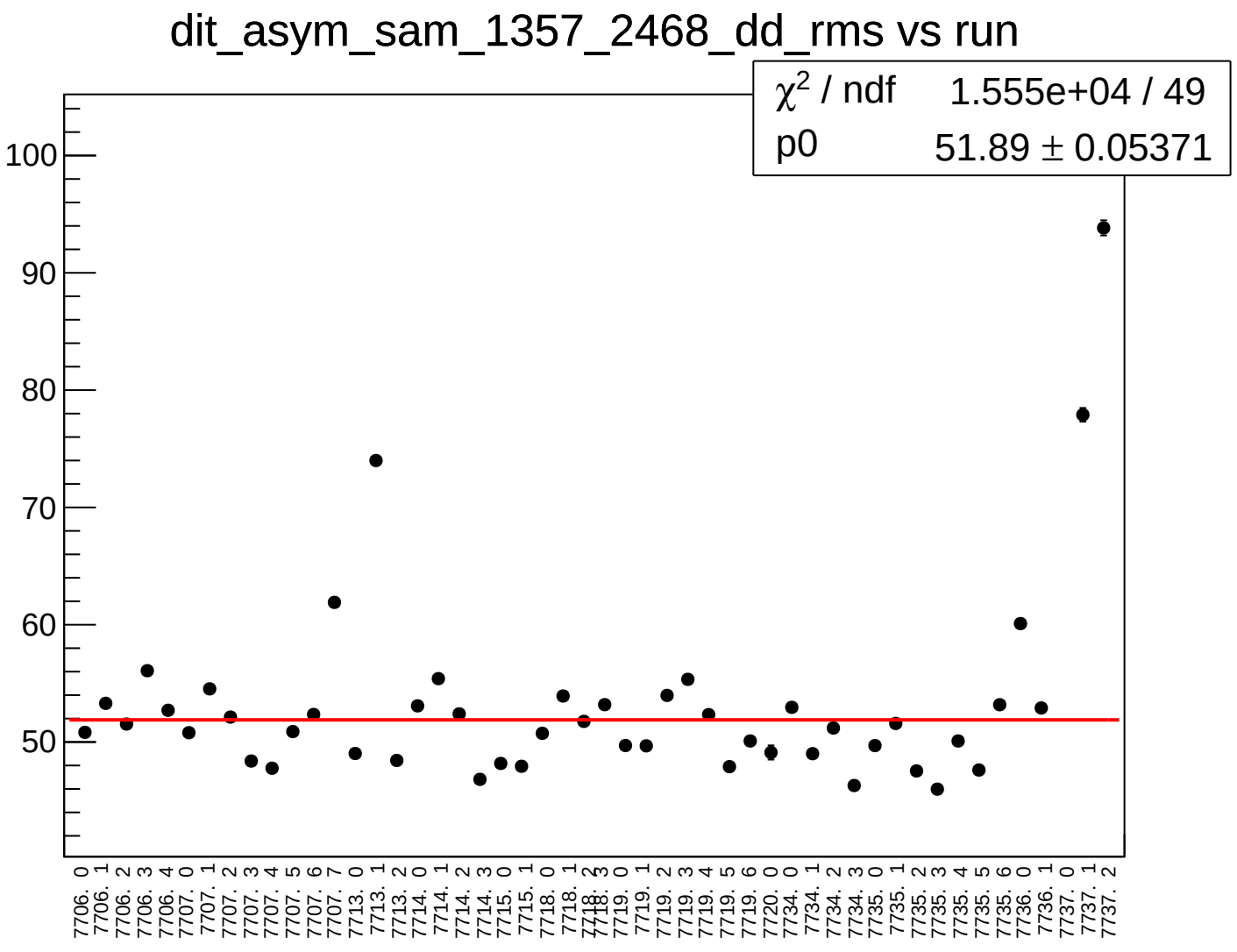

pull1D
Entries 50
Mean 0.01553
Std Dev 0.7628
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

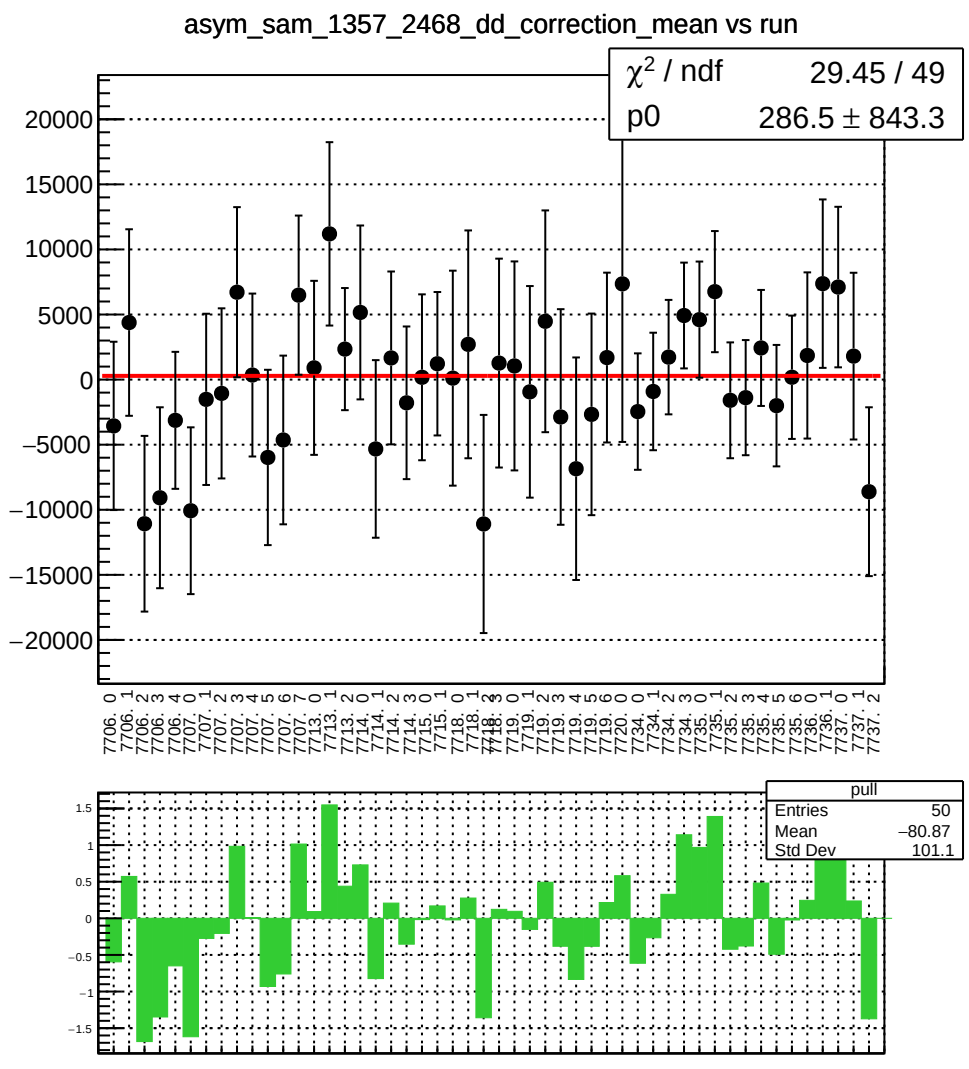

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2.683e+04 / 49
p0 2178 ± 2.269
3200
3000
2800
2600
2400
2200
2000
1800
1600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

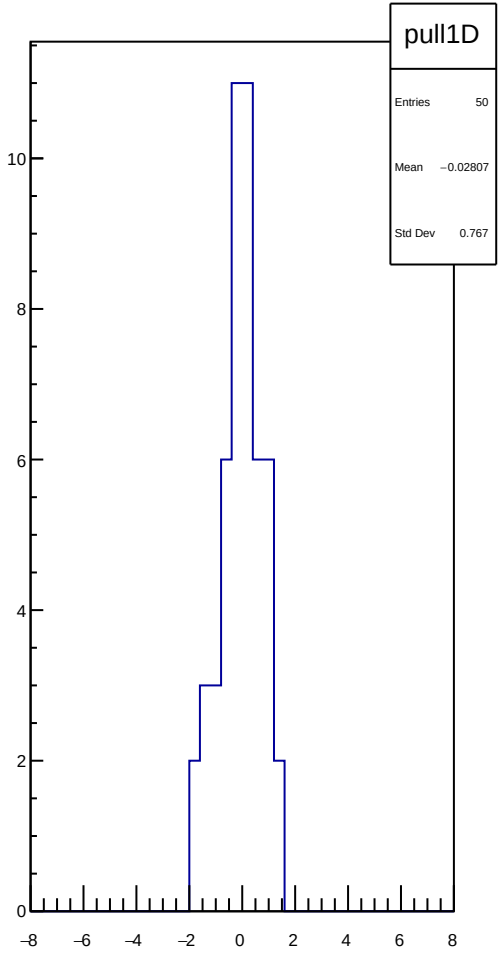

asym_sam_2468_avg_mean vs run
χ² / ndf 29.64 / 49
p0 298.9 ± 3152
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −1180
Std Dev 1201
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.002835
Std Dev 0.7699
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

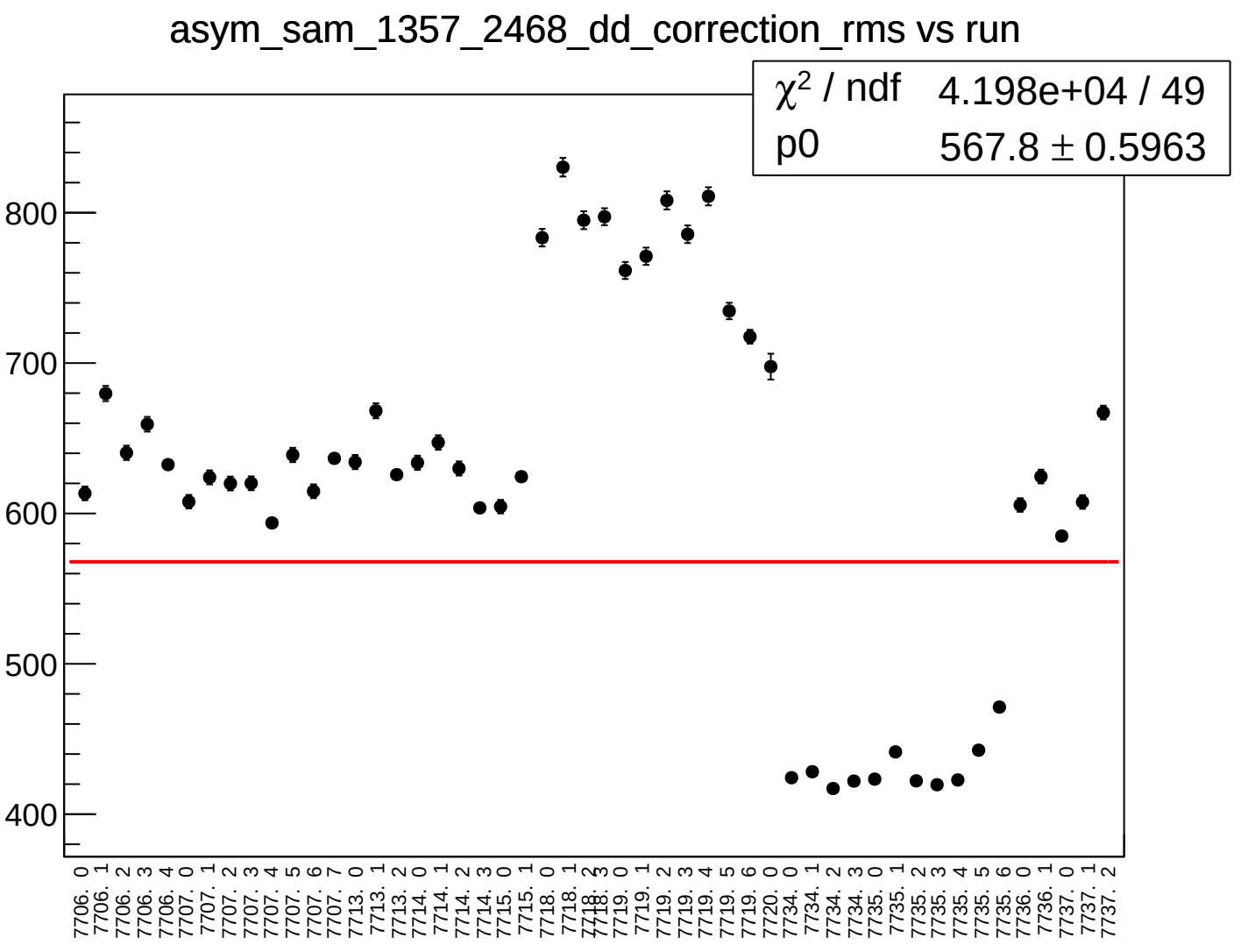

asym_sam_2468_avg_rms vs run
χ² / ndf 1.935e+04 / 49
p0 2148 ± 2.229
3000
2800
2600
2400
2200
2000
1800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

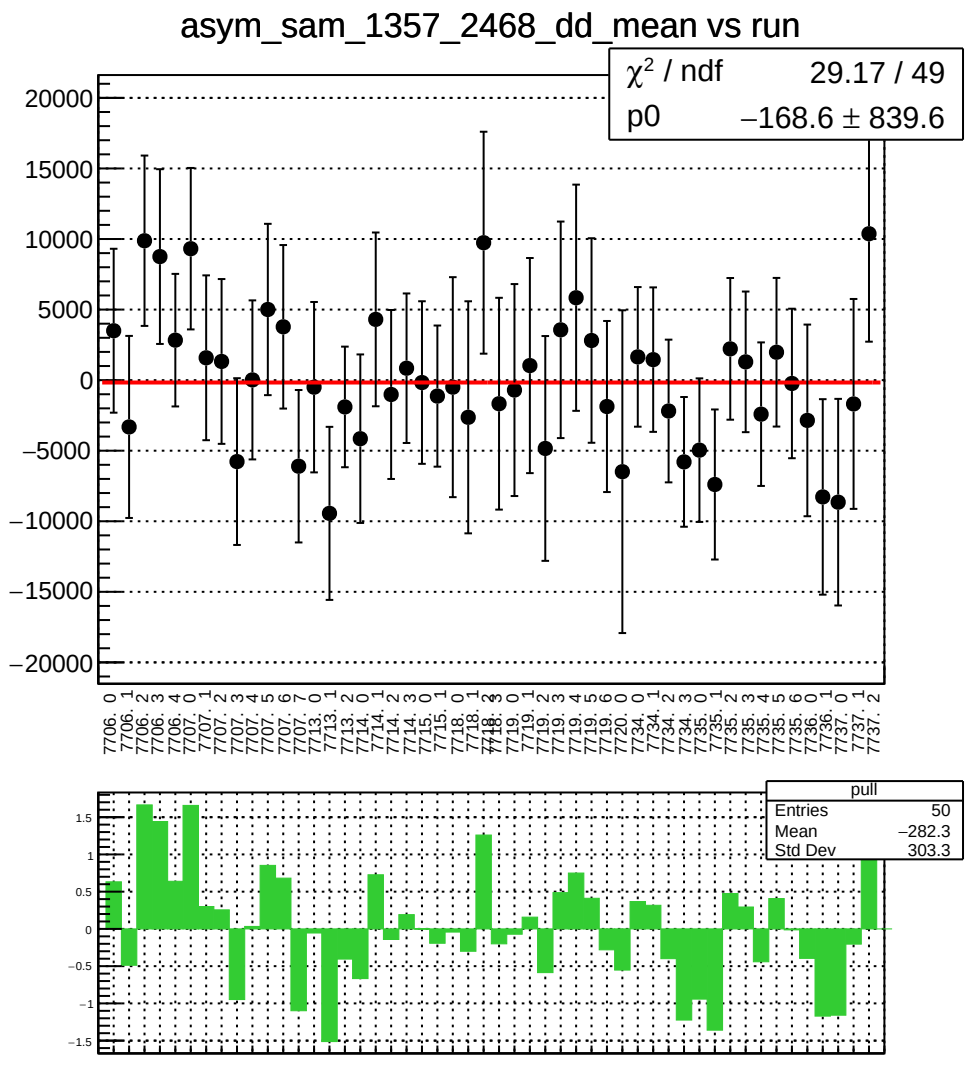

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 32.75 / 49
p0 −74.61± 75.96
2000
1000
0
−1000
−2000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −457.5
Std Dev 482.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.004698
Std Dev 0.8093
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

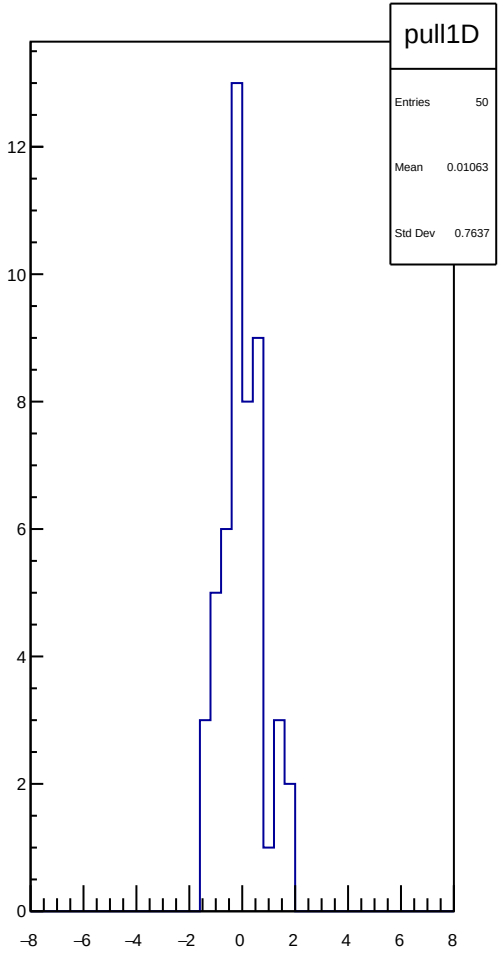

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.555e+04 / 49
p0 51.89 ± 0.05371
100
90
80
70
60
50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

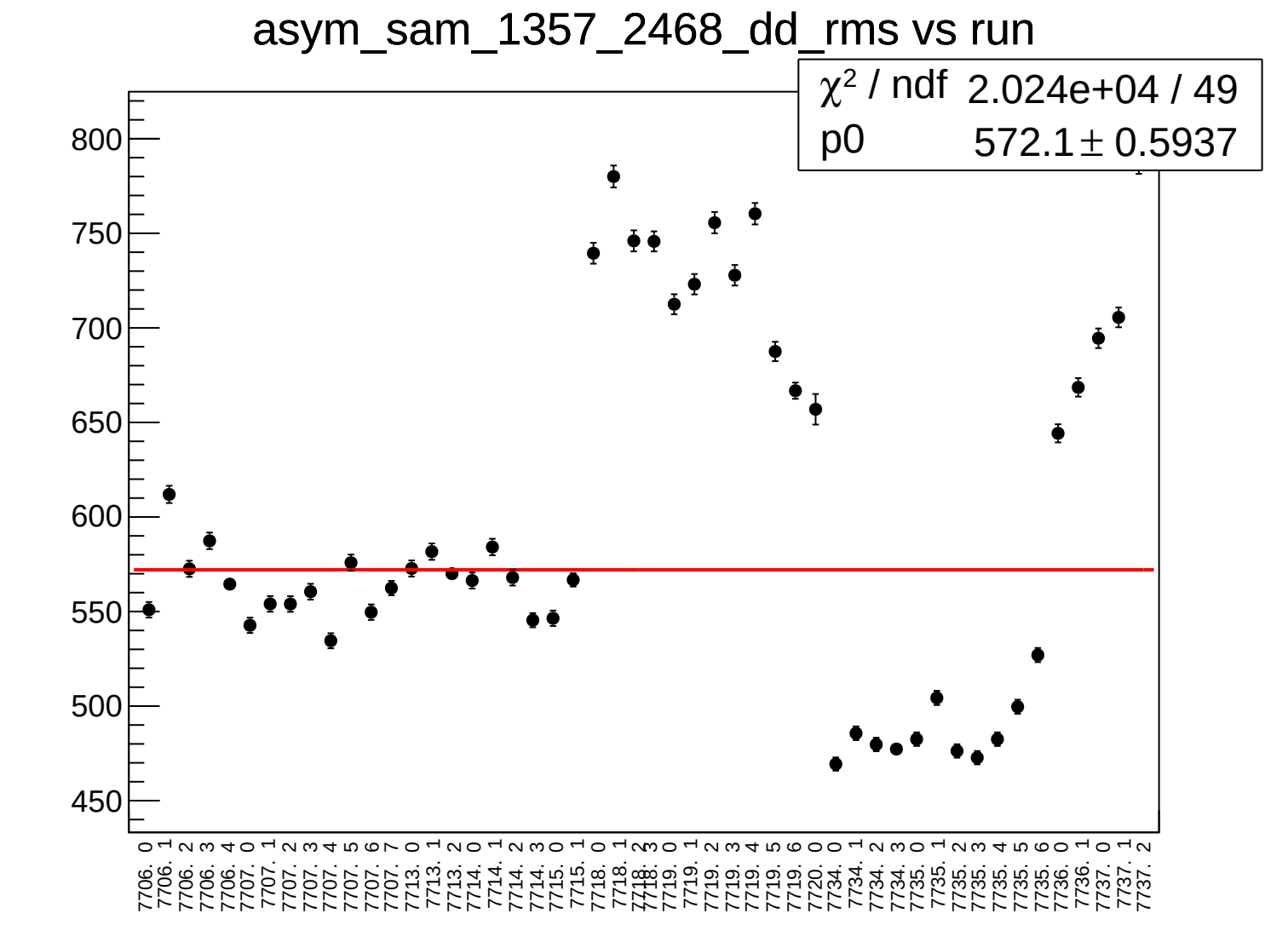

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 29.45 / 49
p0 286.5 ± 843.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −80.87
Std Dev 101.1
1.5
1
0.5
0
−0.5
−1
−1.5

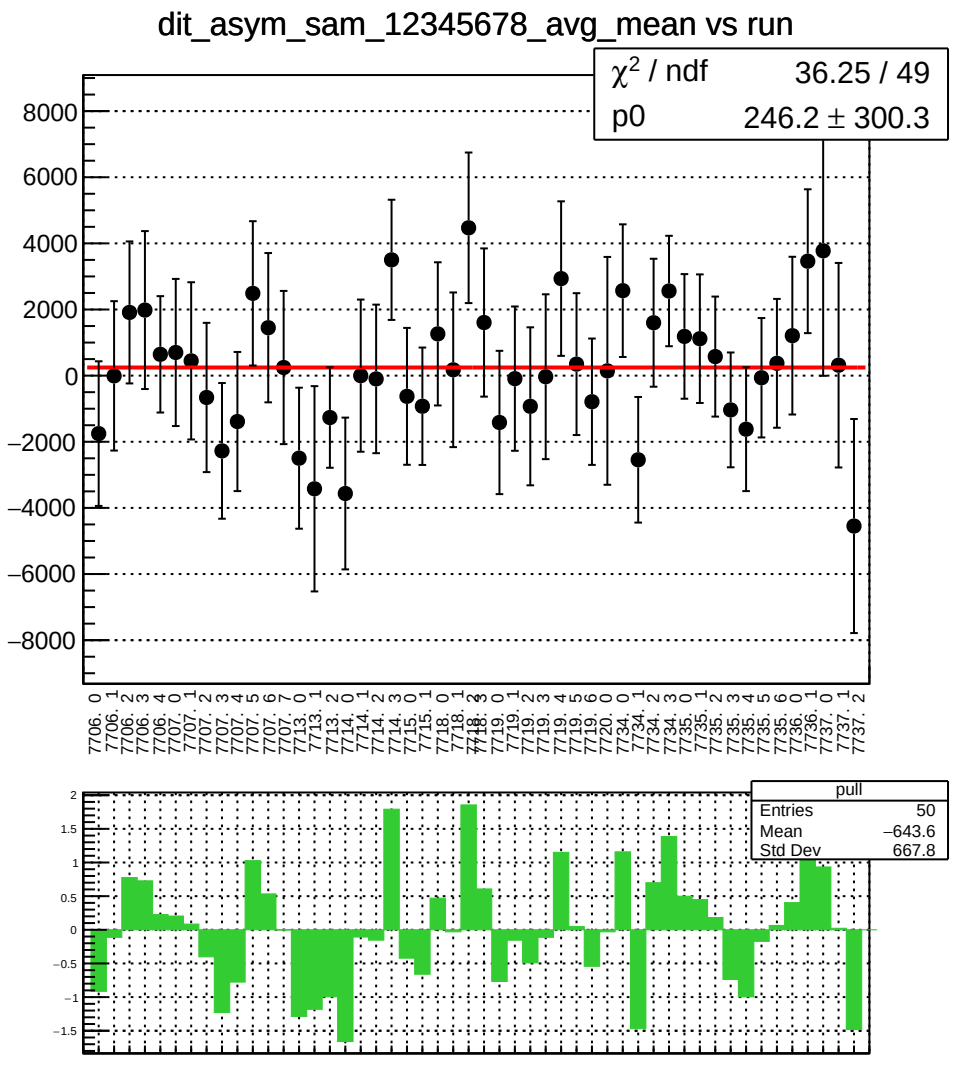

pull1D
Entries 50
Mean −0.02807
Std Dev 0.767
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

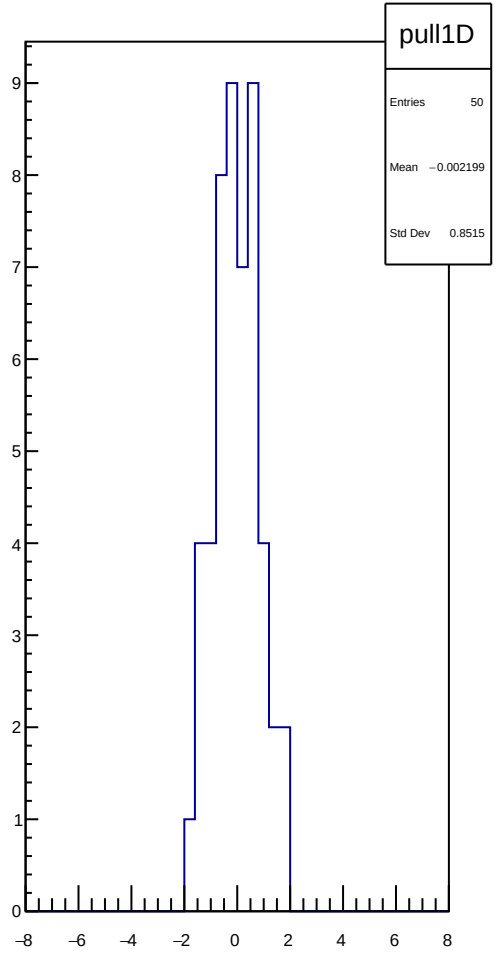

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 4.198e+04 / 49
p0 567.8 ± 0.5963
800
700
600
500
400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2

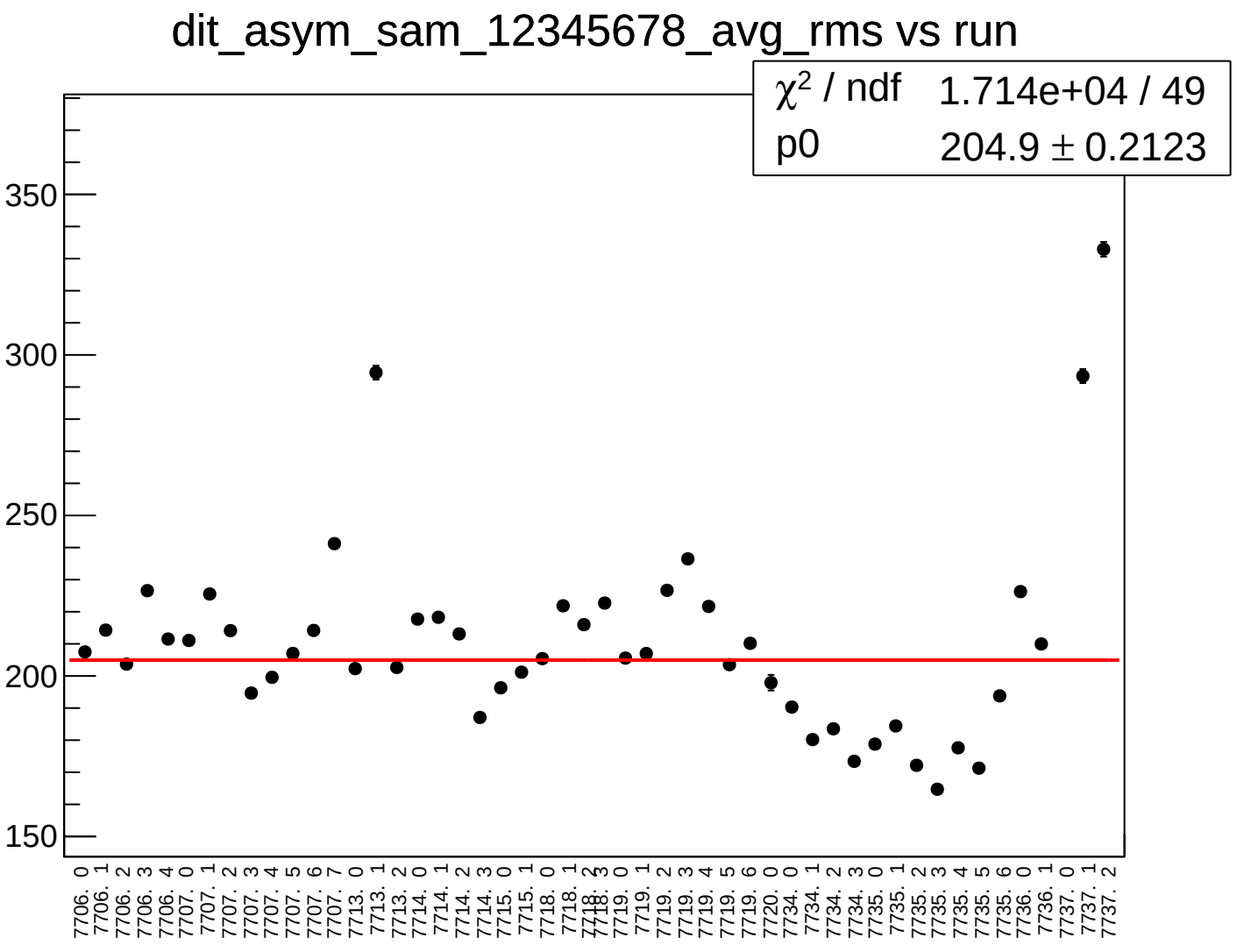

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 29.17 / 49
p0 −168.6 ± 839.6
pull
Entries 50
Mean −282.3
Std Dev 303.3

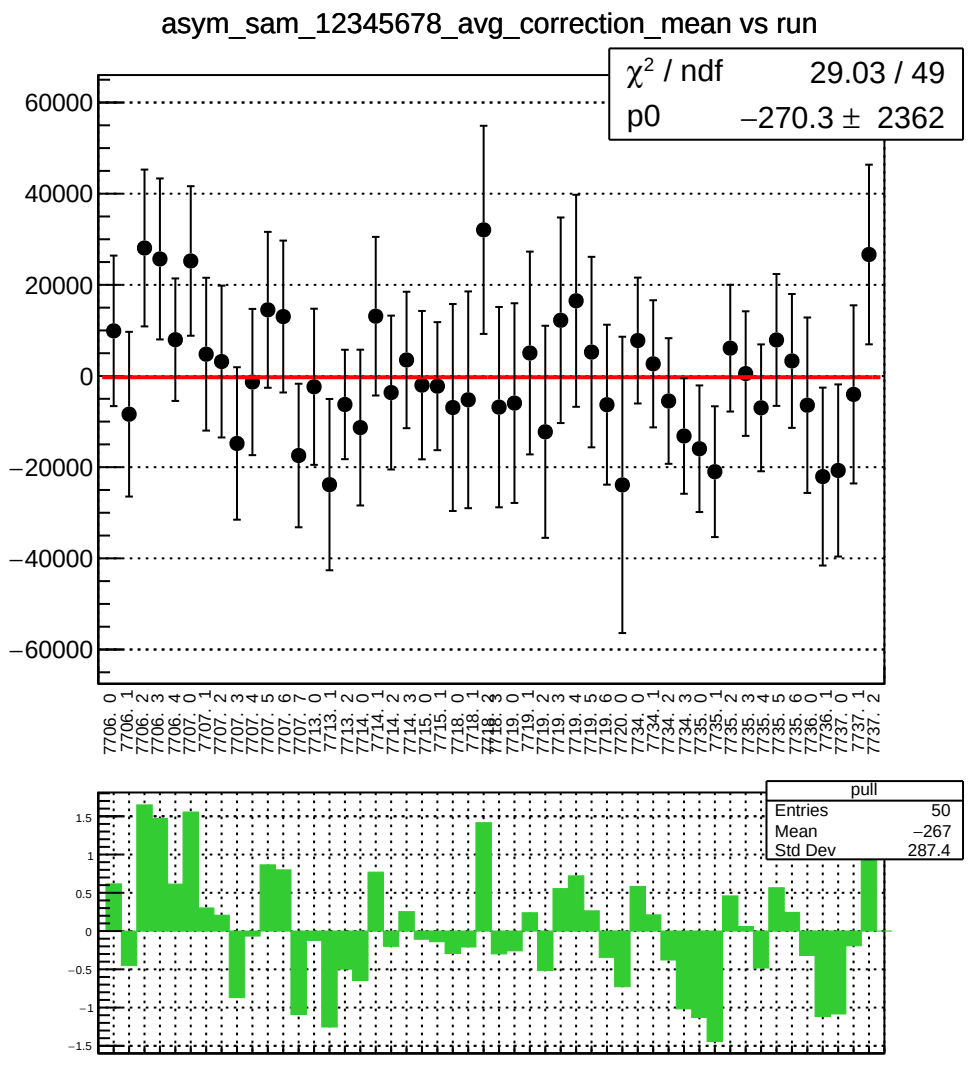

pull1D
Entries 50
Mean 0.01063
Std Dev 0.7637

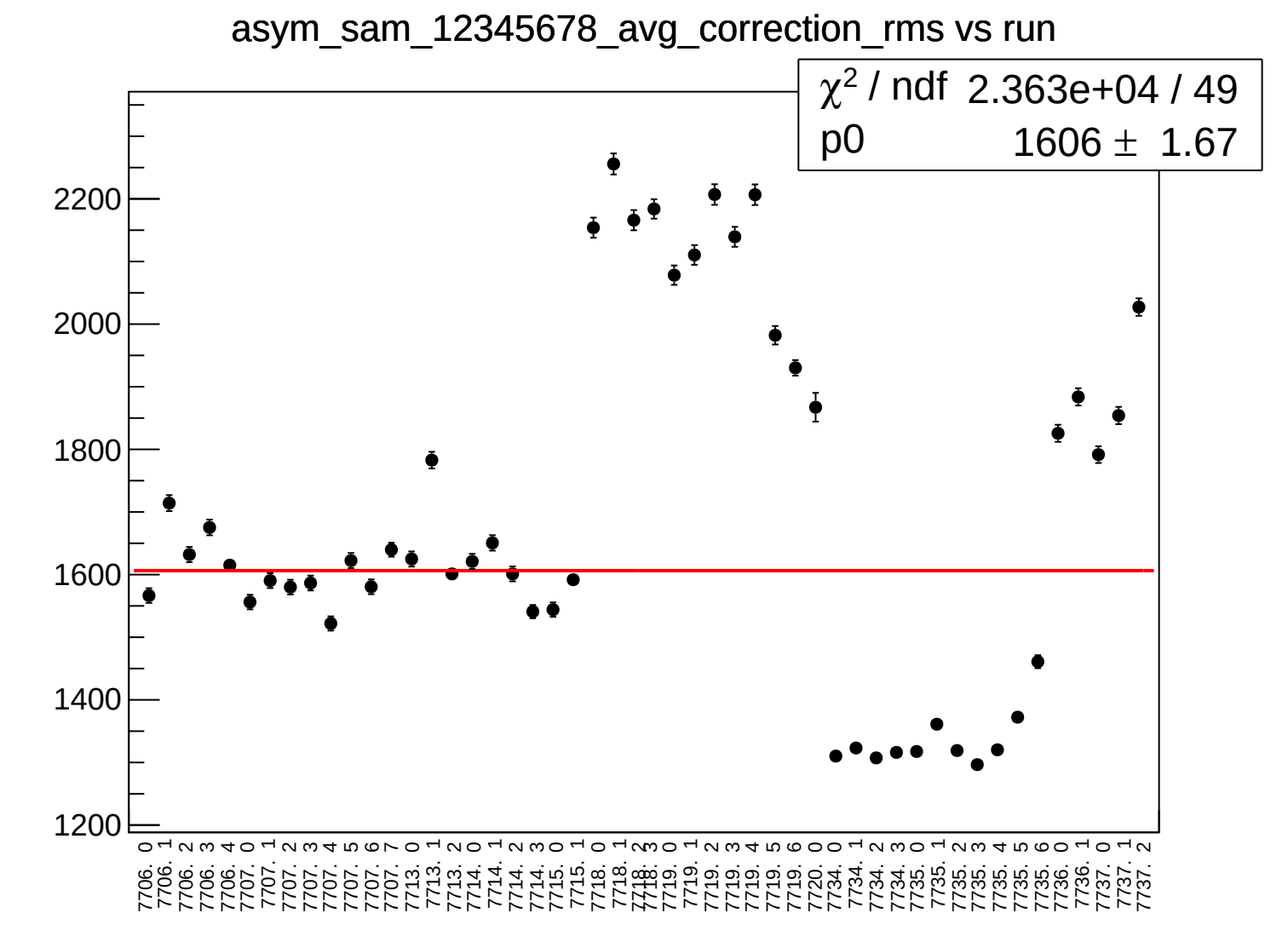

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.024e+04 / 49
p0 572.1 ± 0.5937
800
750
700
650
600
550
500
450
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 36.25 / 49
p0 246.2 ± 300.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −643.6
Std Dev 667.8
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean −0.002199
Std Dev 0.8515
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.714e+04 / 49
p0 204.9 ± 0.2123
350
300
250
200
150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 29.03 / 49
p0 −270.3 ± 2362
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −267
Std Dev 287.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.01085
Std Dev 0.7619
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.363e+04 / 49
p0 1606 ± 1.67
2200
2000
1800
1600
1400
1200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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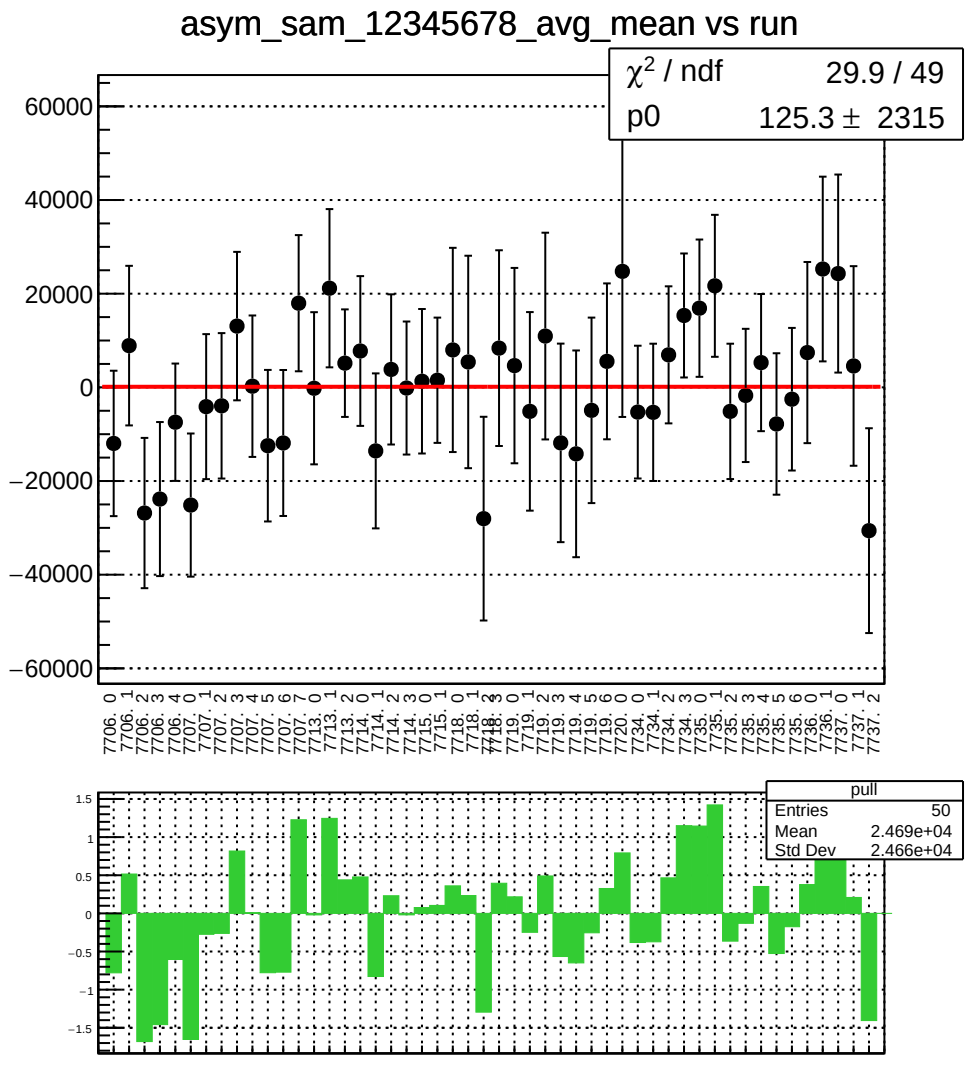
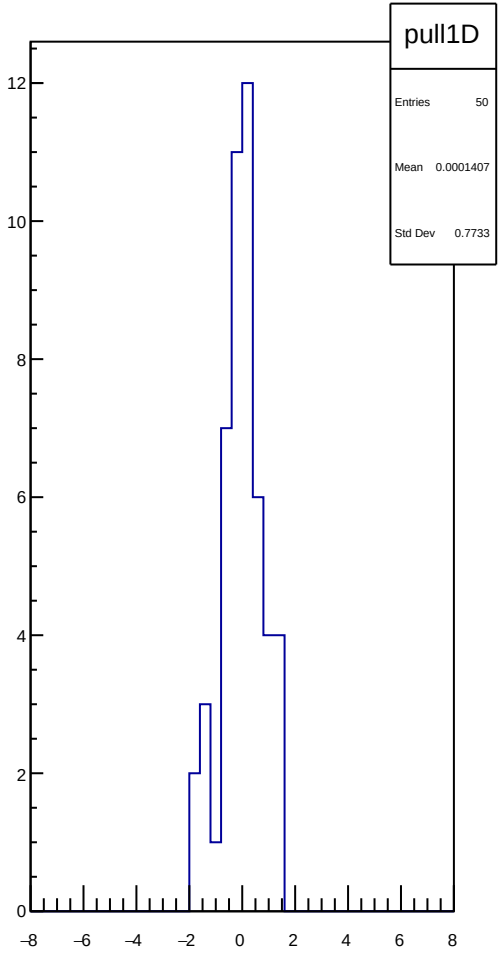
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


asym_sam_12345678_avg_mean vs run
χ² / ndf 29.9 / 49
p0 125.3 ± 2315
60000
40000
20000
0
−20000
−40000
−60000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 2.469e+04
Std Dev 2.466e+04
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 50
Mean 0.0001407
Std Dev 0.7733
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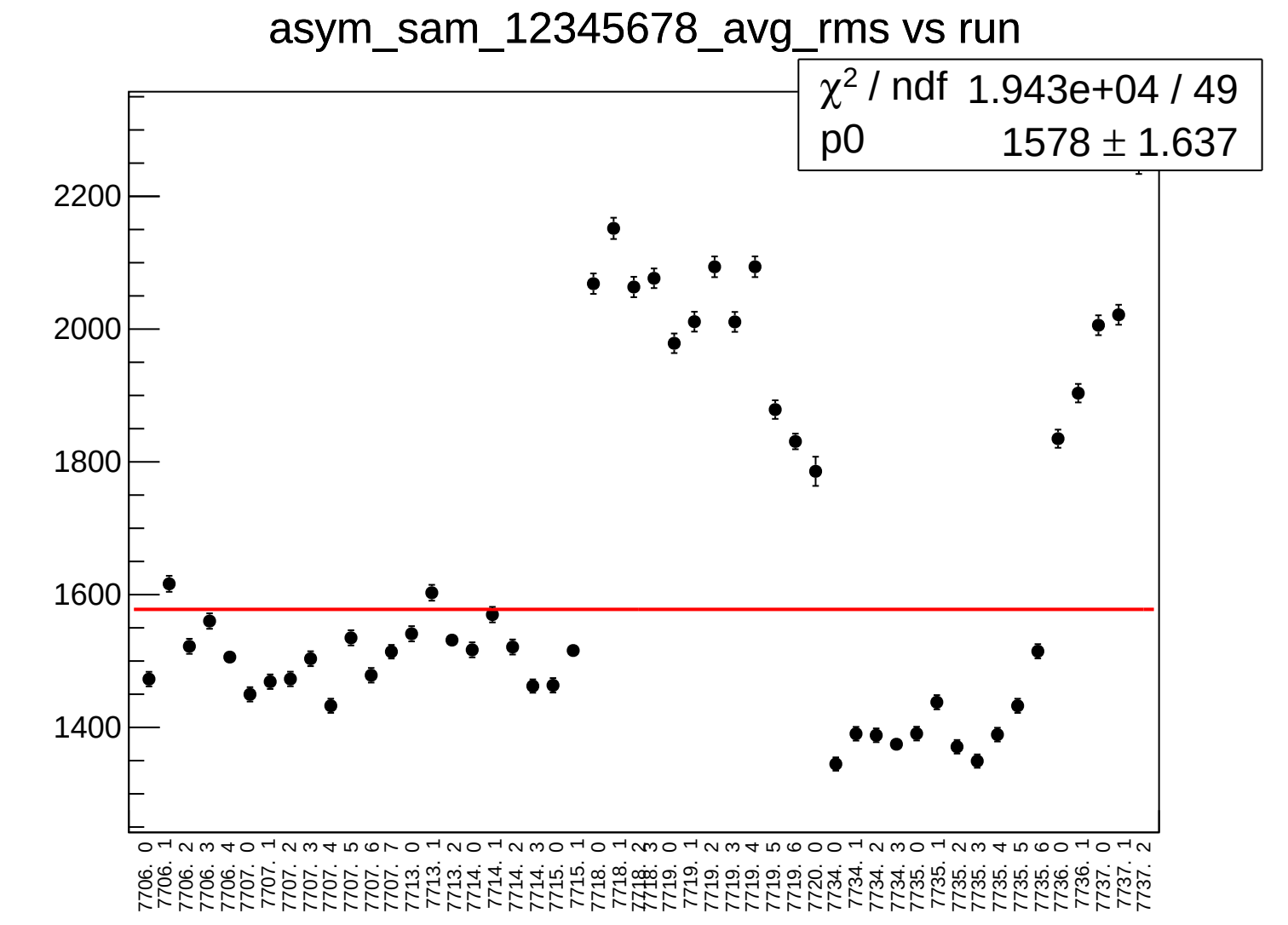
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_rms vs run
χ² / ndf 1.943e+04 / 49
p0 1578 ± 1.637
2200
2000
1800
1600
1400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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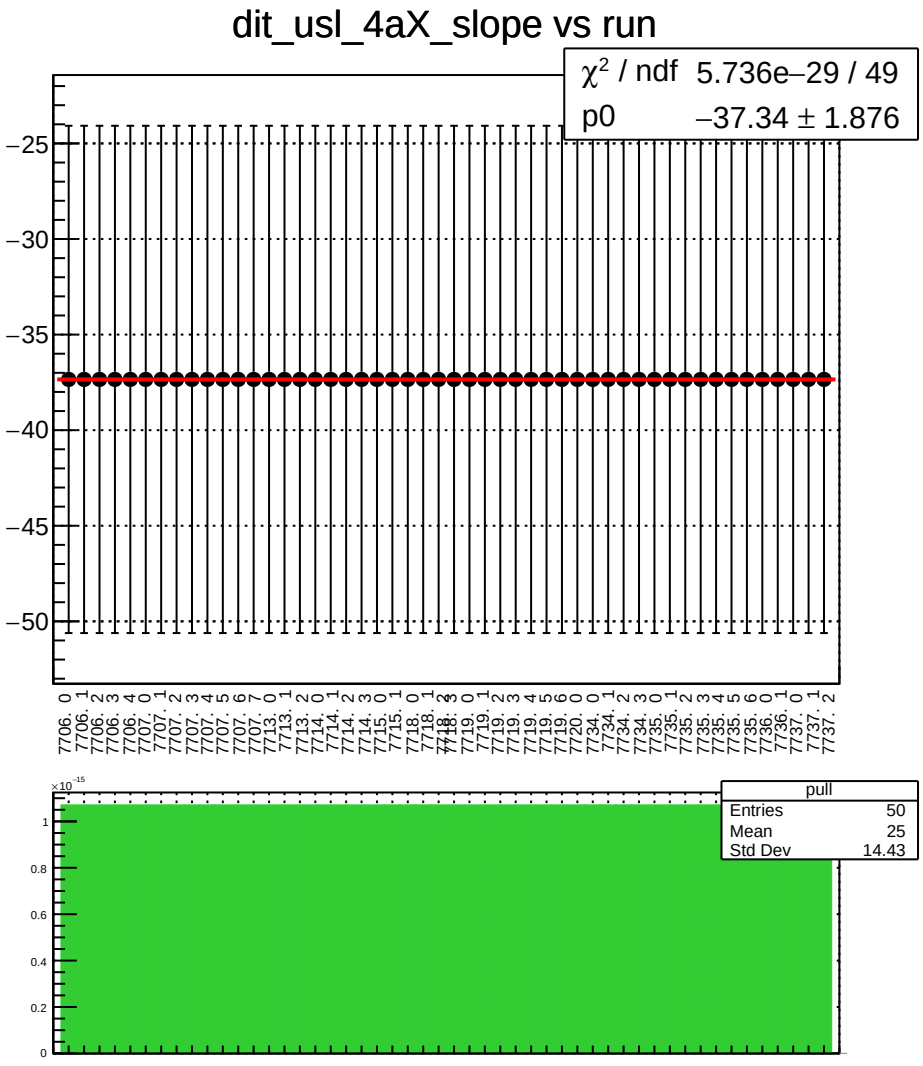
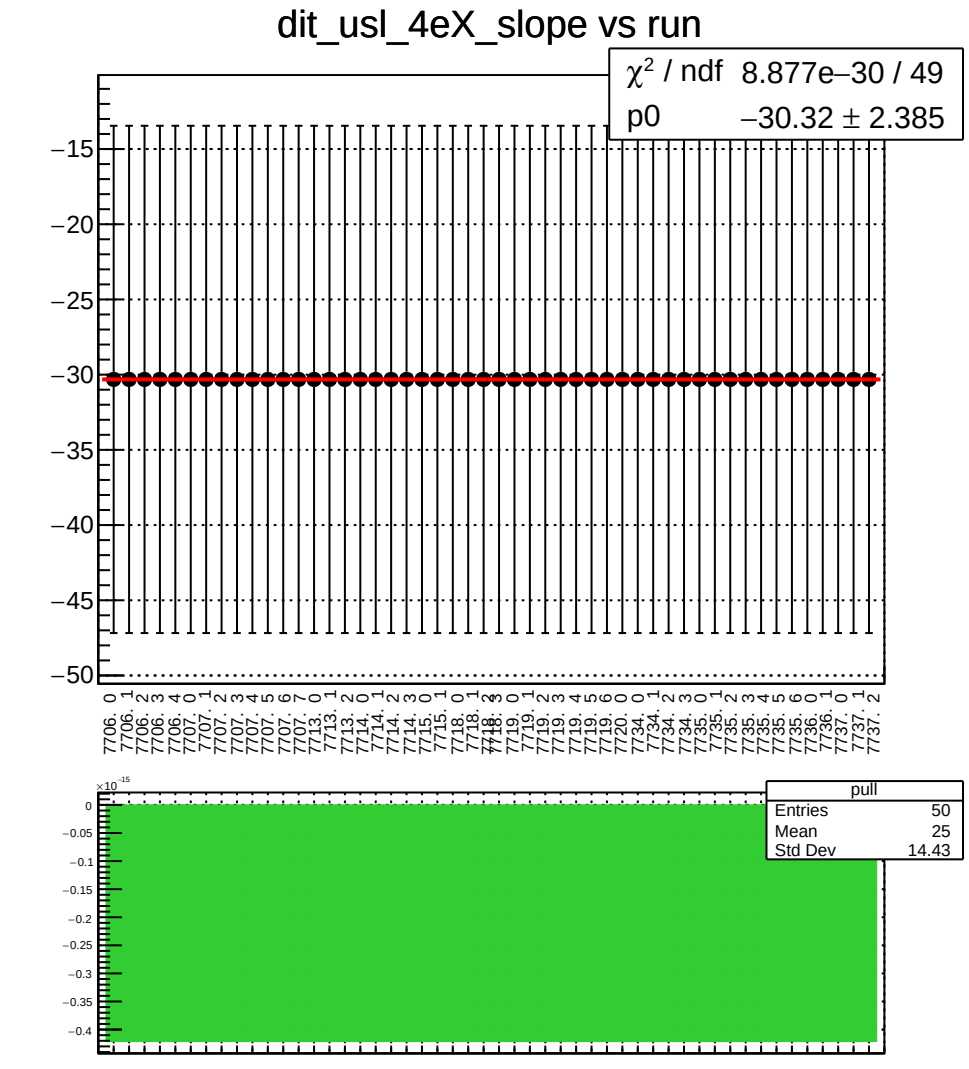
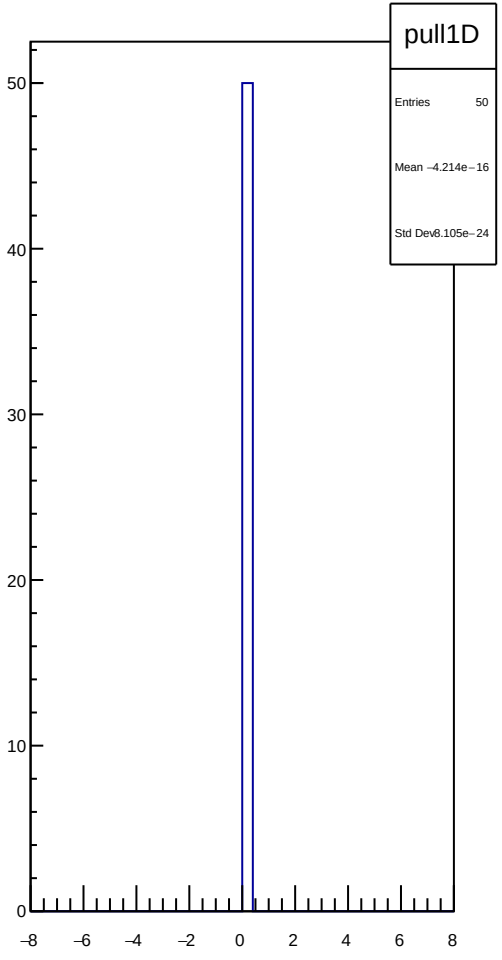
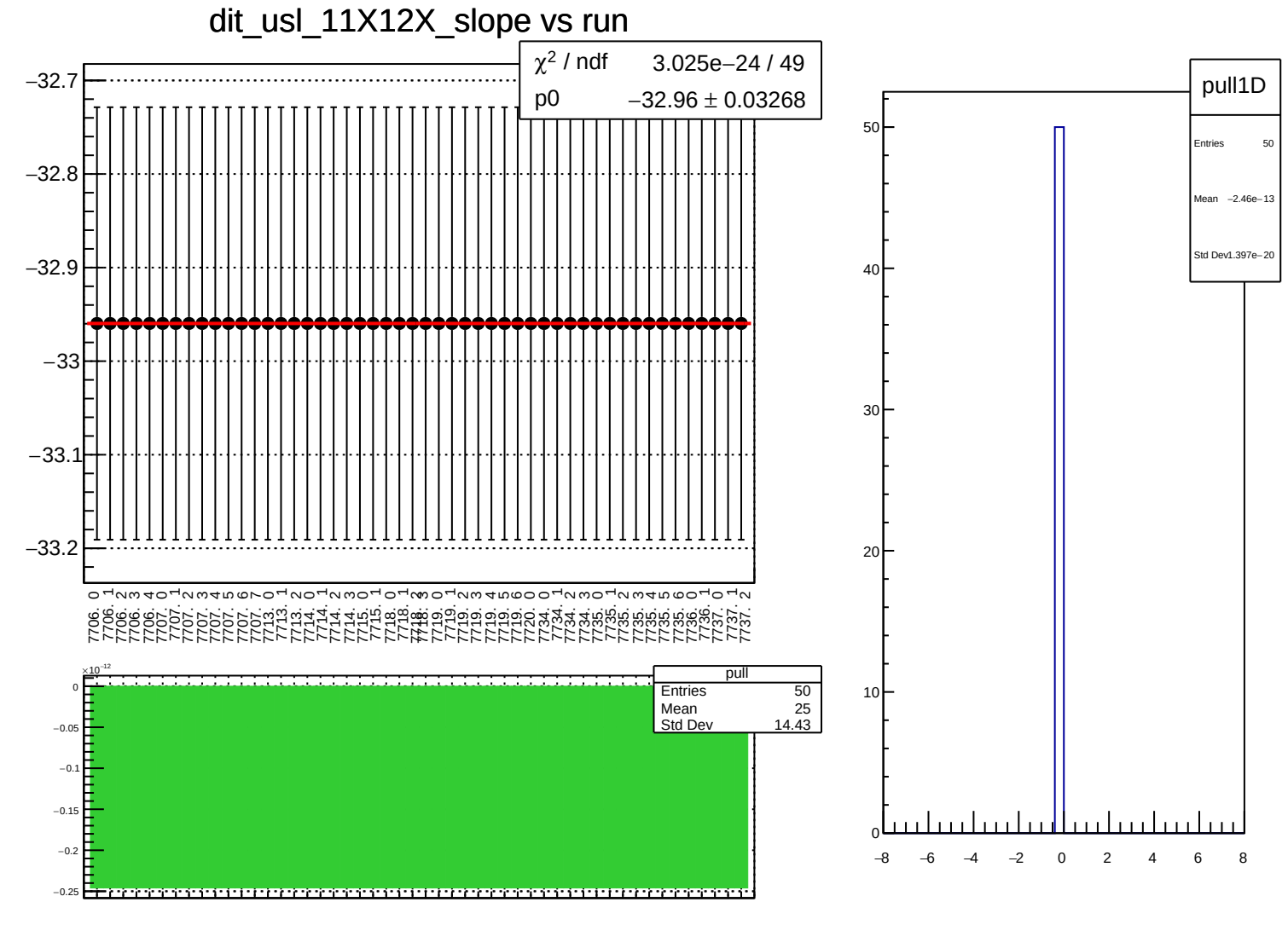
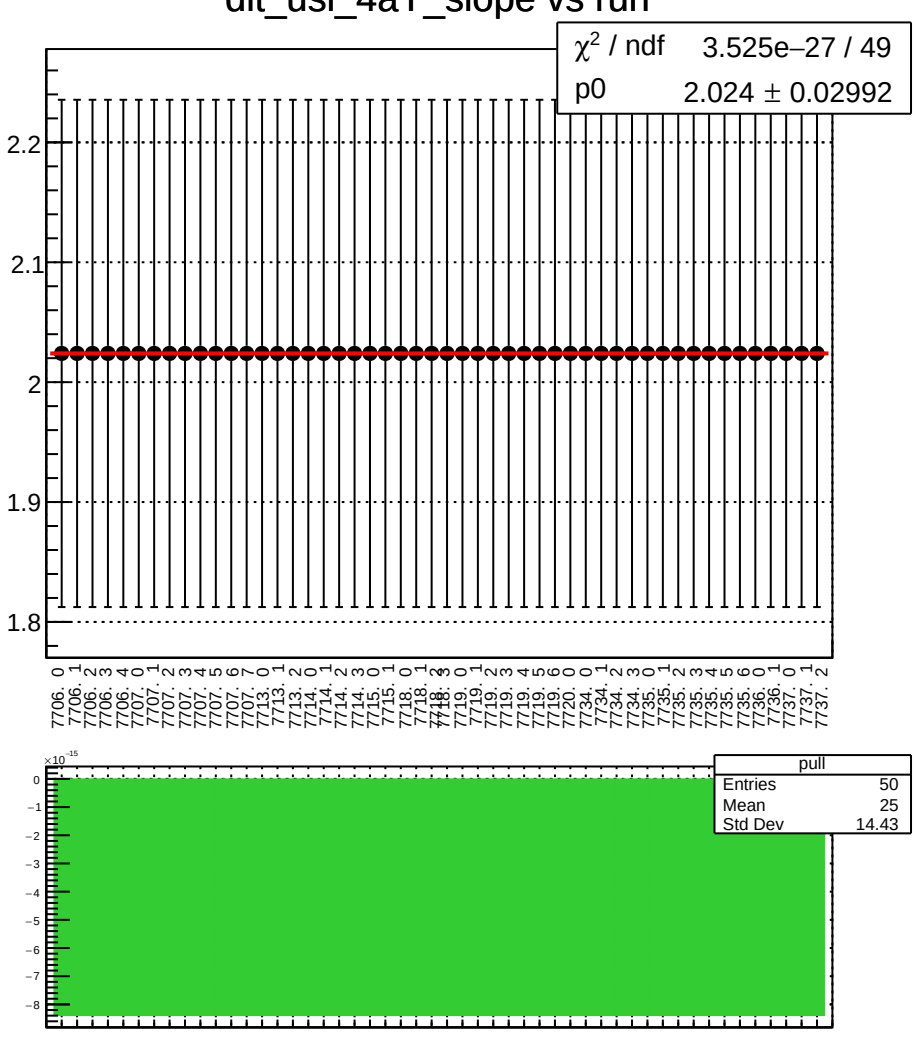
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2


dit_usl_4aX_slope vs run
χ² / ndf 5.736e−29 / 49
p0 −37.34 ± 1.876
−25
−30
−35
−40
−45
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.071e−15
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eX_slope vs run
χ² / ndf 8.877e−30 / 49
p0 −30.32 ± 2.385
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean −4.214e−16
Std Dev 8.105e−24


dit_usl_11X12X_slope vs run
χ² / ndf 3.025e−24 / 49
p0 −32.96 ± 0.03268
−32.7
−32.8
−32.9
−33
−33.1
−33.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −2.46e−13
Std Dev 1.397e−20
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4aY_slope vs run
χ² / ndf 3.525e−27 / 49
p0 2.024 ± 0.02992
2.2
2.1
2
1.9
1.8
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7714. 3
7715. 0
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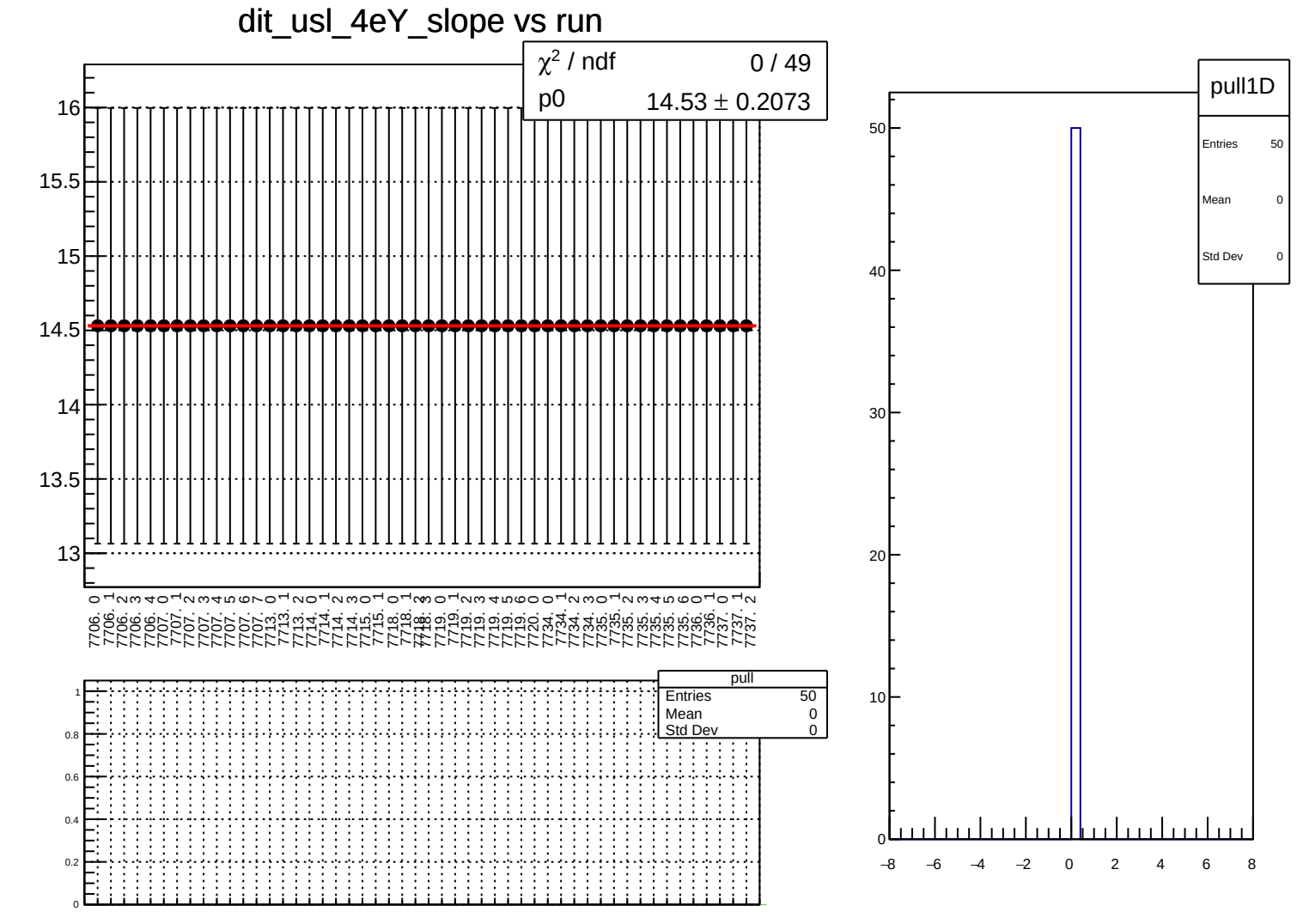
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−1
−2
−3
−4
−5
−6
−7
−8
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −8.396e−15
Std Dev 2.118e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usl_4eY_slope vs run
χ^2 / ndf 0 / 49
p0 14.53 ± 0.2073
16
15.5
15
14.5
14
13.5
13
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
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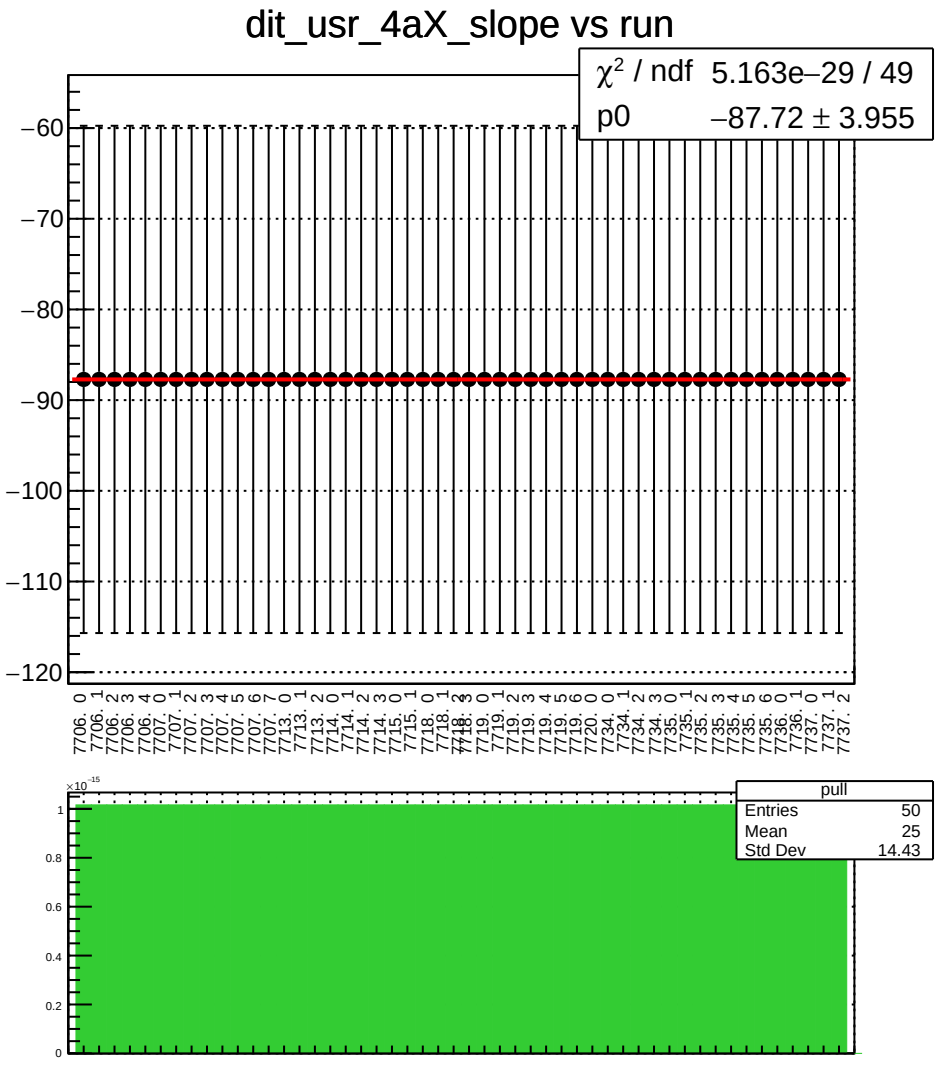
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 50
Mean 0
Std Dev 0
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8


dit_usr_4aX_slope vs run
χ² / ndf 5.163e−29 / 49
p0 −87.72 ± 3.955
−60
−70
−80
−90
−100
−110
−120
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
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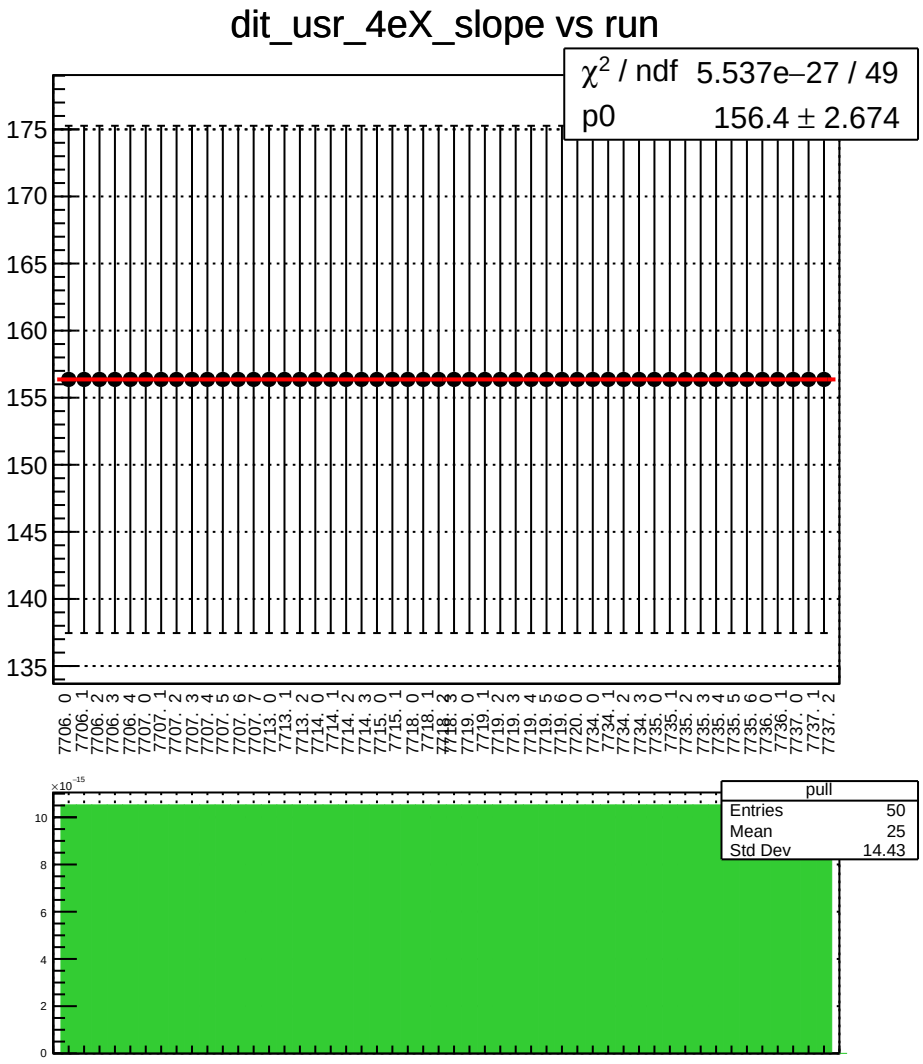
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.016e−15
Std Dev 4.772e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usr_4eX_slope vs run
χ² / ndf 5.537e−27 / 49
p0 156.4 ± 2.674
175
170
165
160
155
150
145
140
135
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
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7713. 0
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7718. 0
7718. 1
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7719. 4
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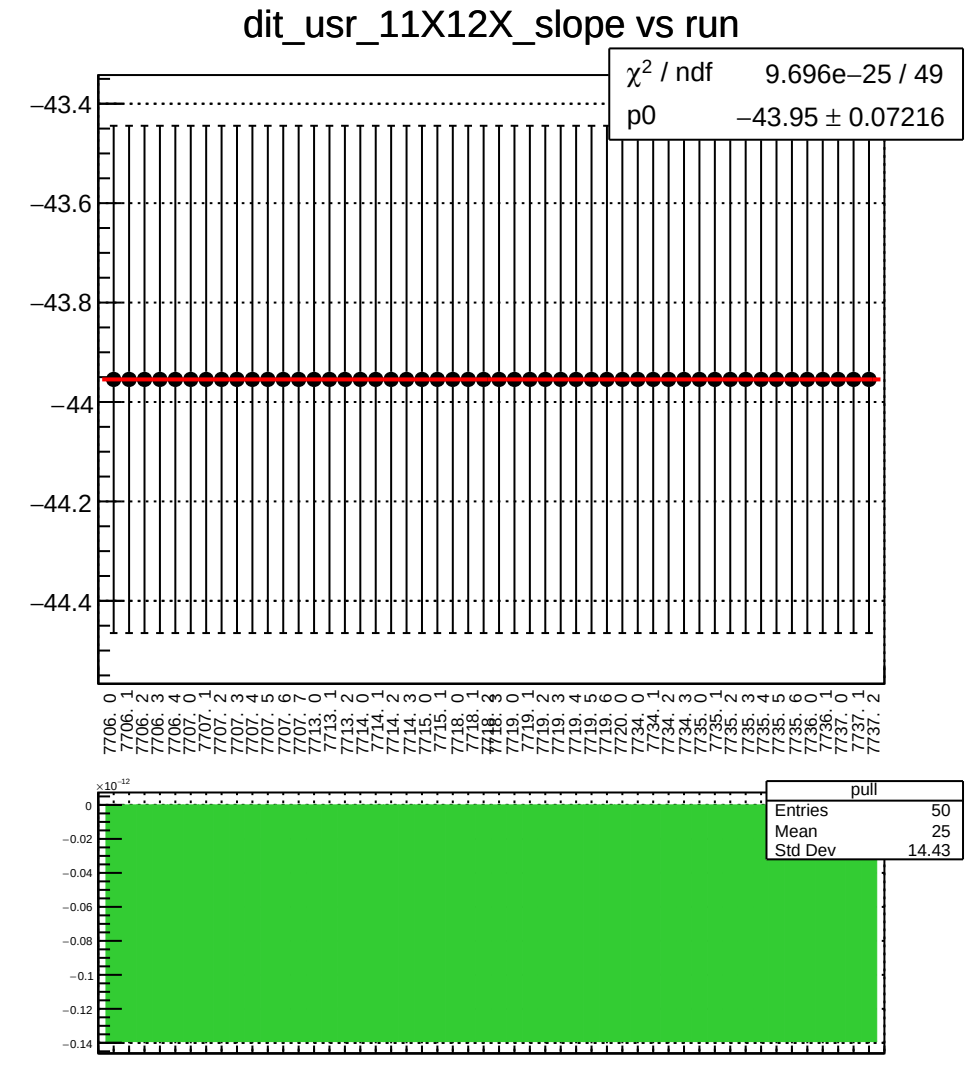
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.052e−14
Std Dev3.668e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_usr_11X12X_slope vs run
χ² / ndf 9.696e−25 / 49
p0 −43.95 ± 0.07216
−43.4
−43.6
−43.8
−44
−44.2
−44.4
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
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7715. 0
7715. 1
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7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
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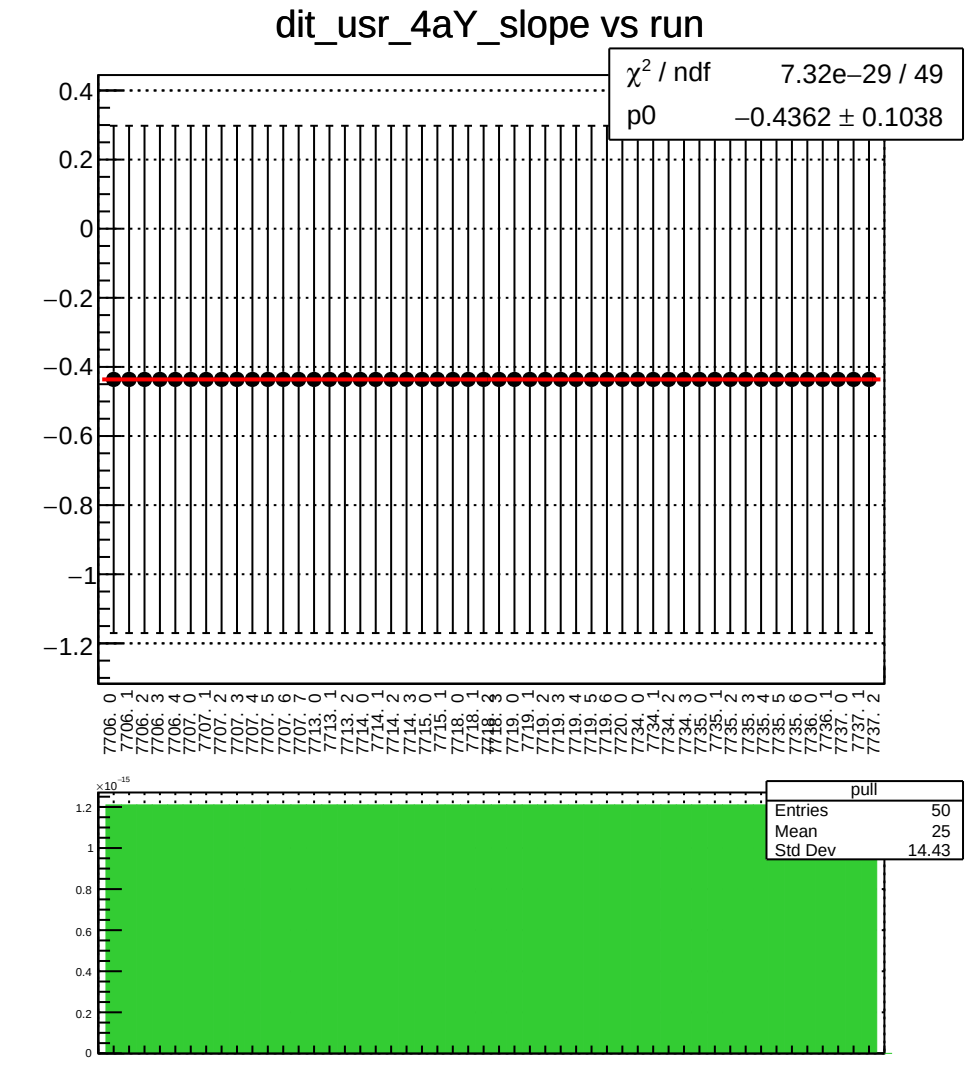
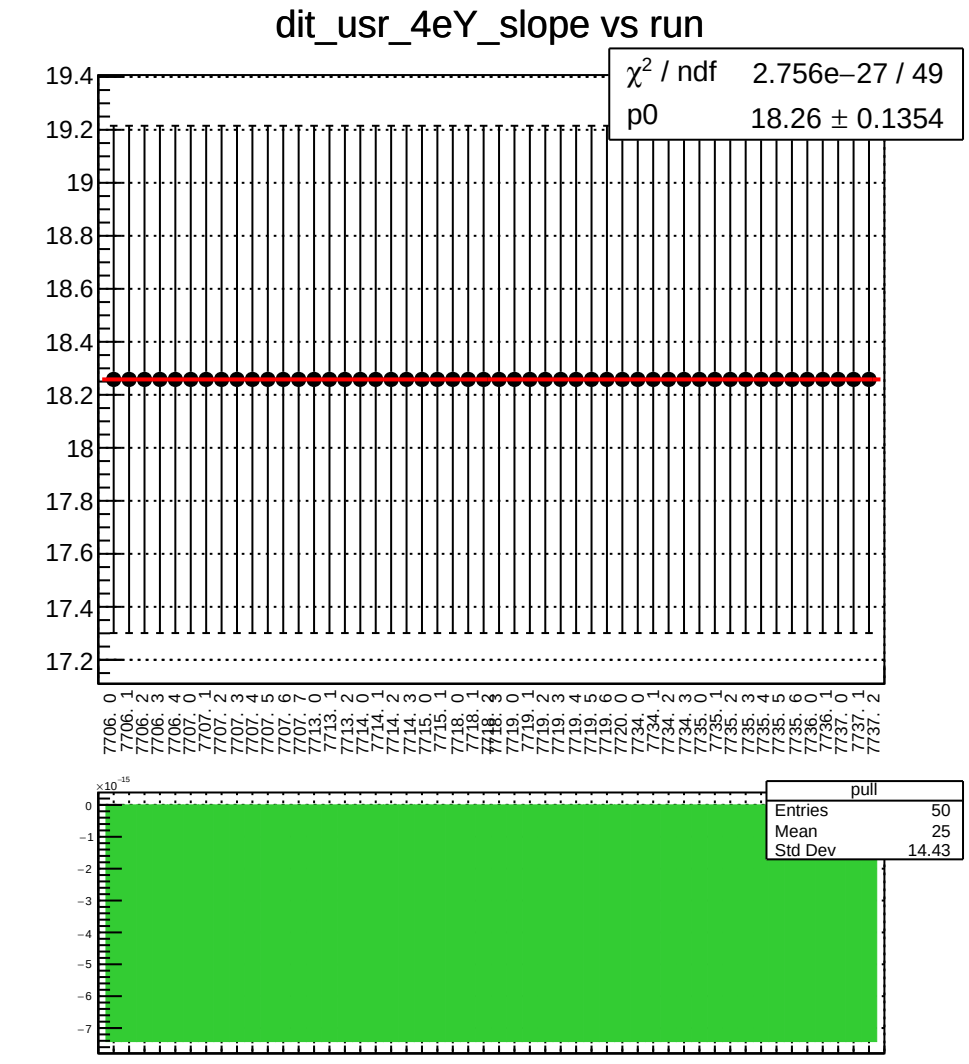
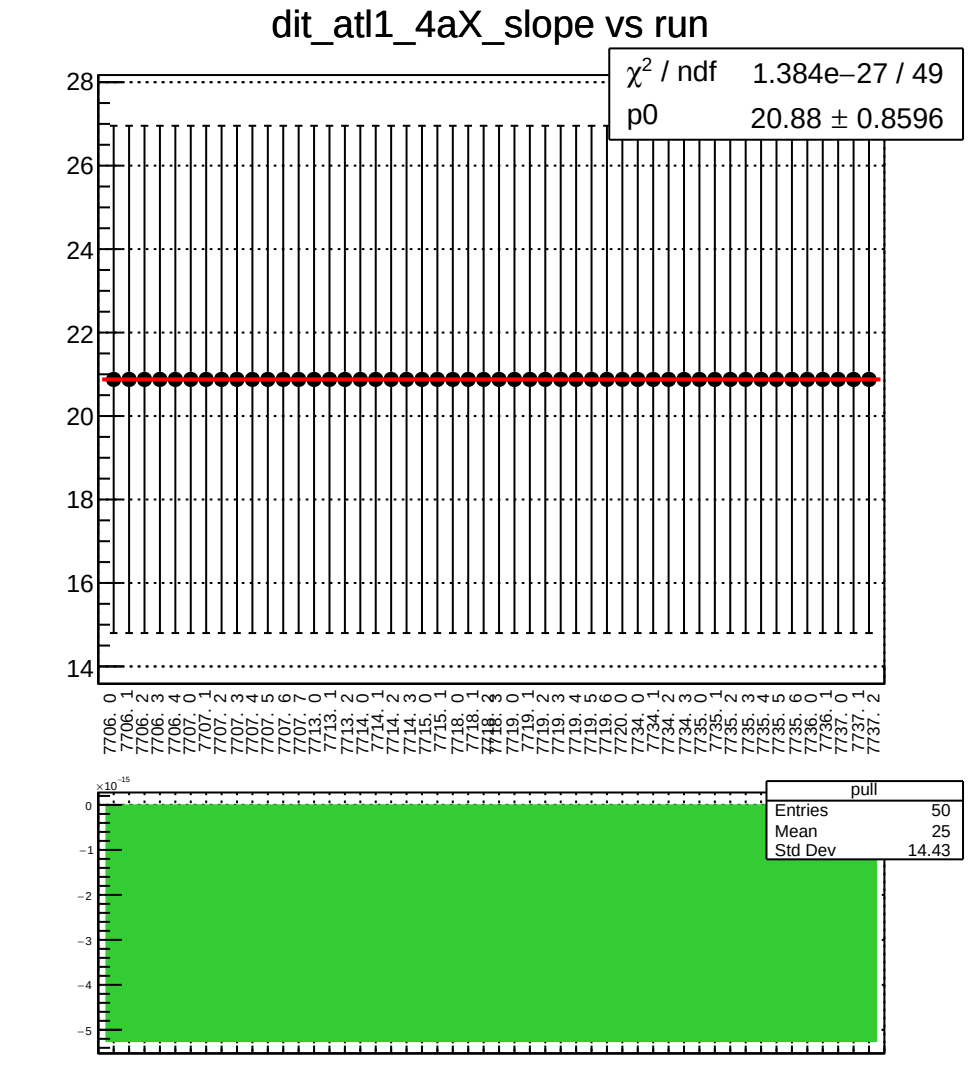
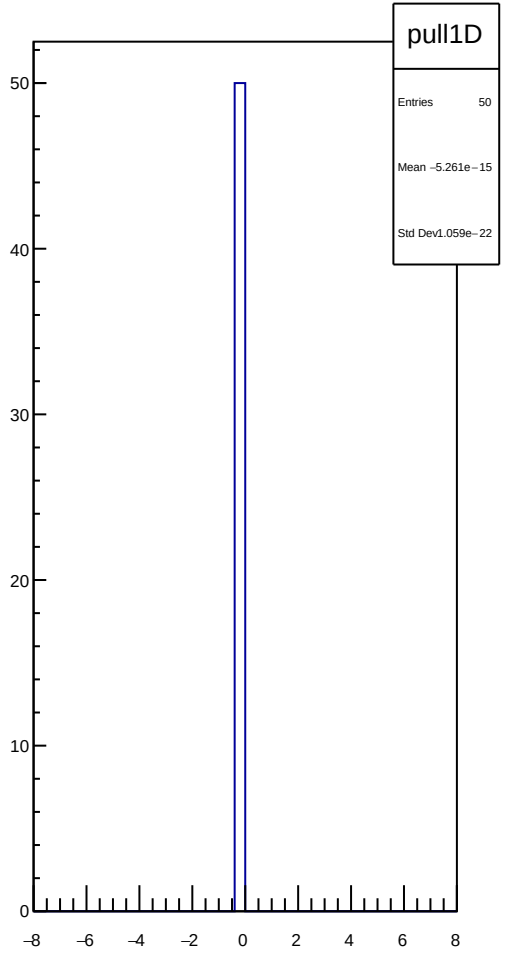
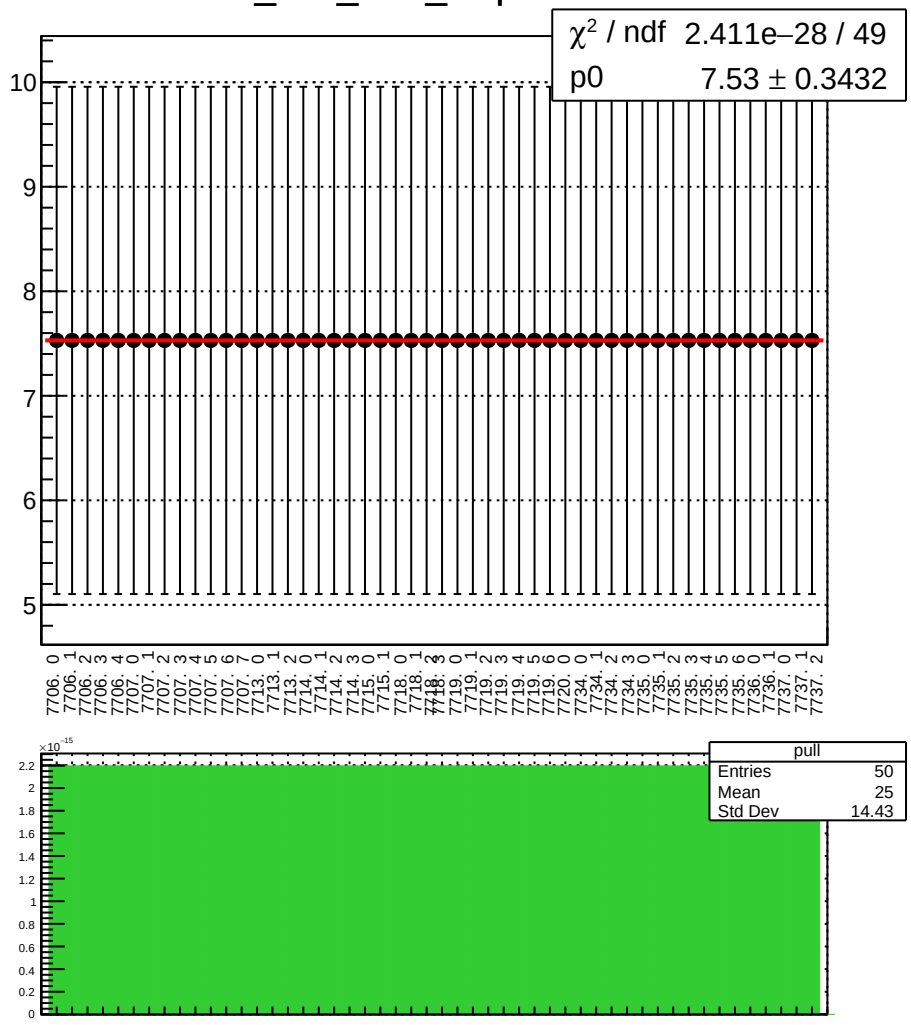
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.393e−13
Std Dev5.082e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

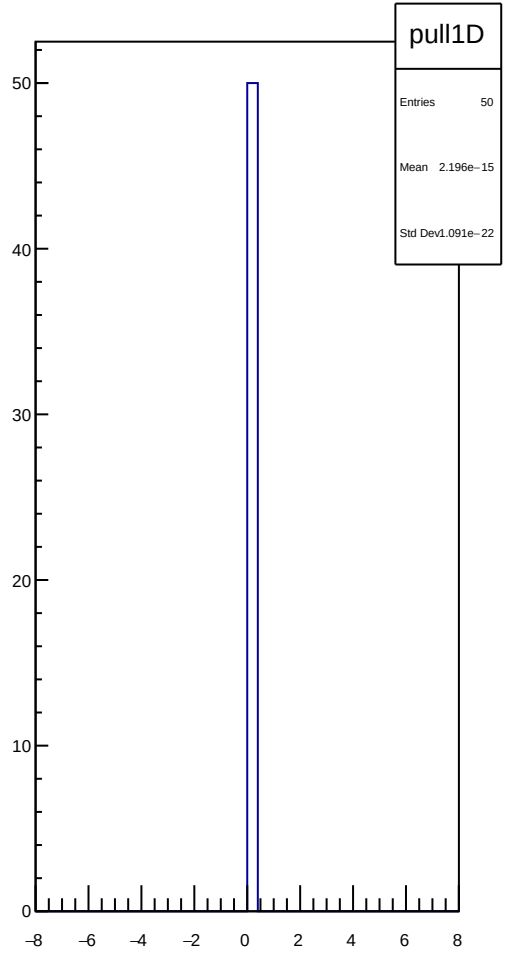

dit_usr_4aY_slope vs run
χ² / ndf 7.32e−29 / 49
p0 −0.4362 ± 0.1038
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.21e−15
Std Dev 2.959e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

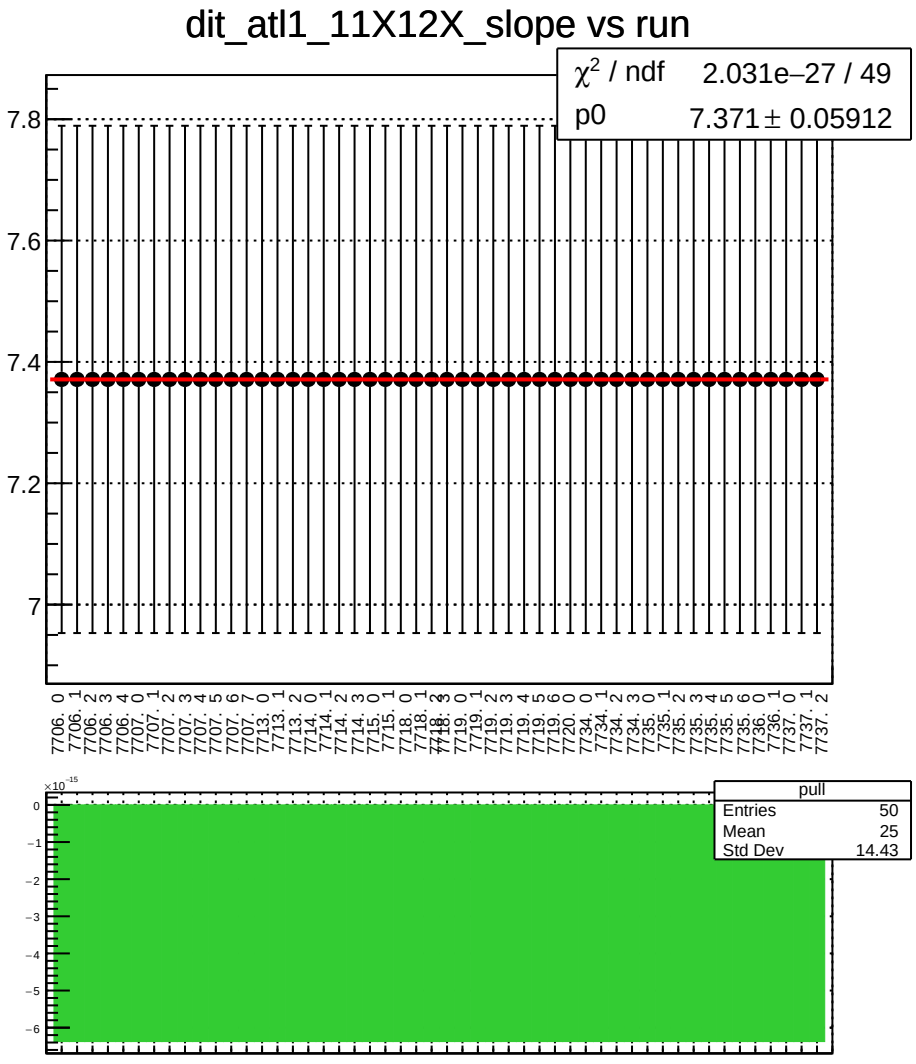

dit_usr_4eY_slope vs run
χ² / ndf 2.756e−27 / 49
p0 18.26 ± 0.1354
19.4
19.2
19
18.8
18.6
18.4
18.2
18
17.8
17.6
17.4
17.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −7.424e−15
Std Dev 2.368e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

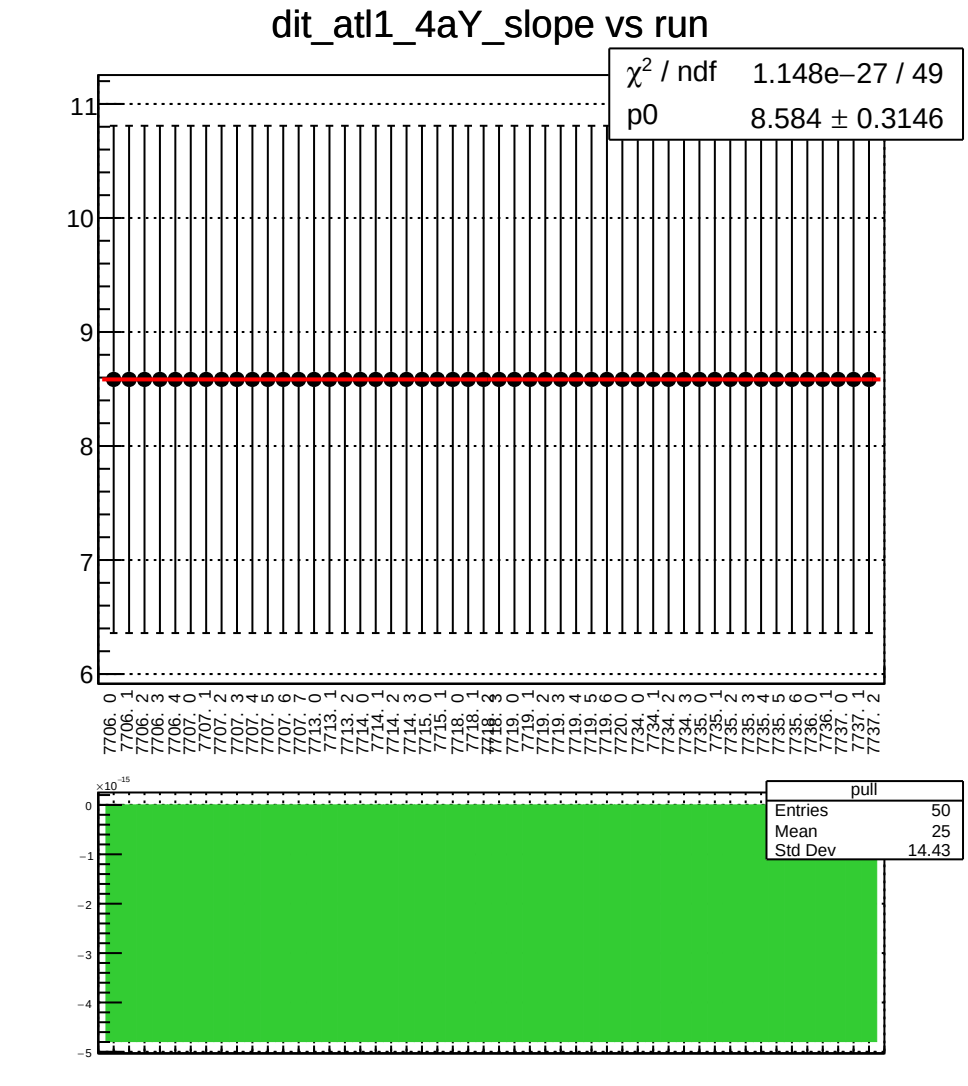

dit_atl1_4aX_slope vs run
χ² / ndf 1.384e−27 / 49
p0 20.88 ± 0.8596
pull
Entries 50
Mean 25
Std Dev 14.43

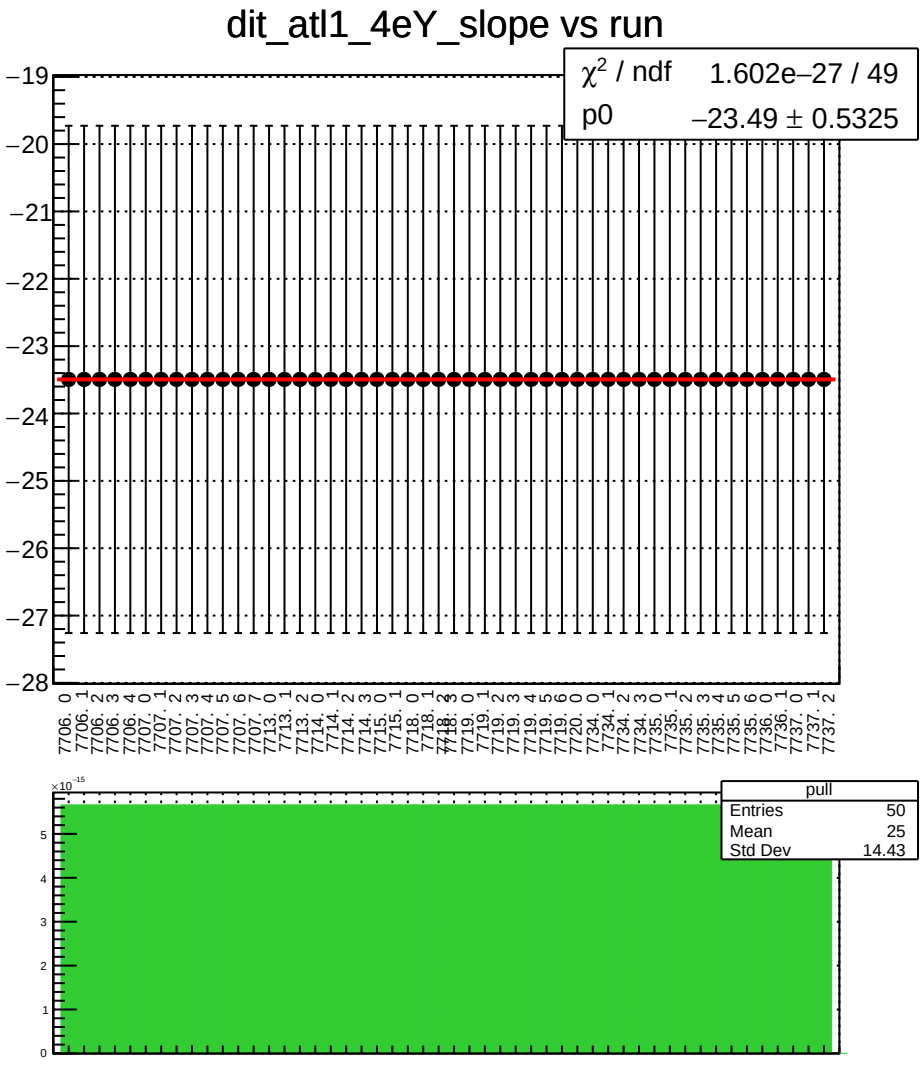

pull1D
Entries 50
Mean −5.261e−15
Std Dev1.059e−22

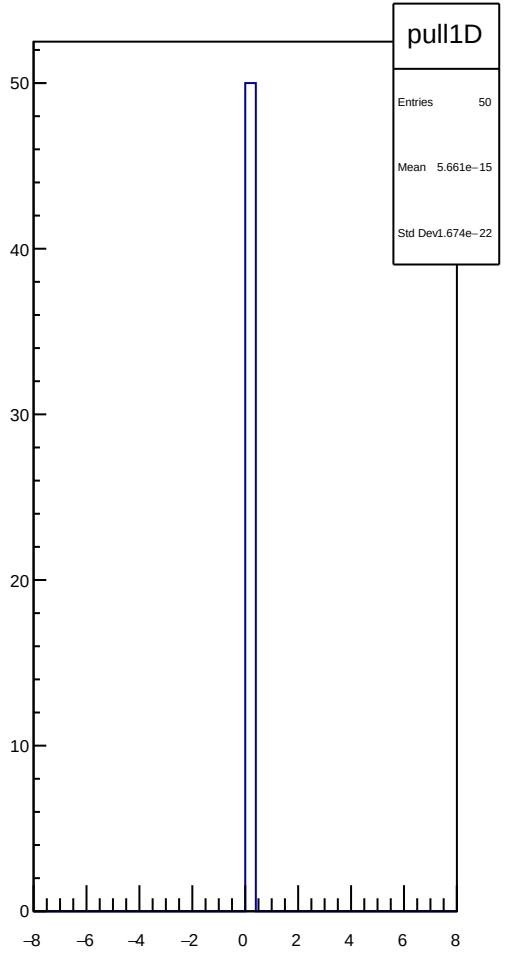

dit_atl1_4eX_slope vs run
χ² / ndf 2.411e−28 / 49
p0 7.53 ± 0.3432
pull
Entries 50
Mean 25
Std Dev 14.43

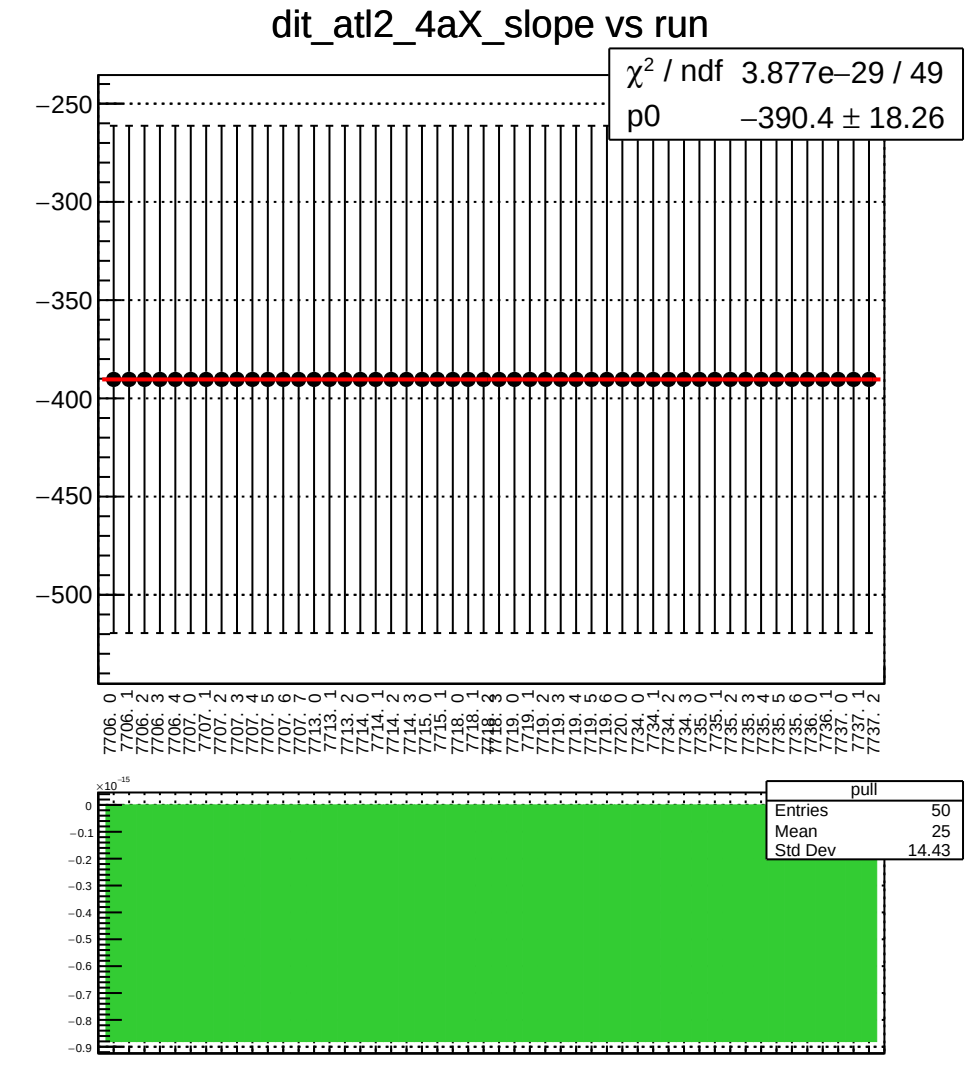

pull1D
Entries 50
Mean 2.196e−15
Std Dev1.091e−22

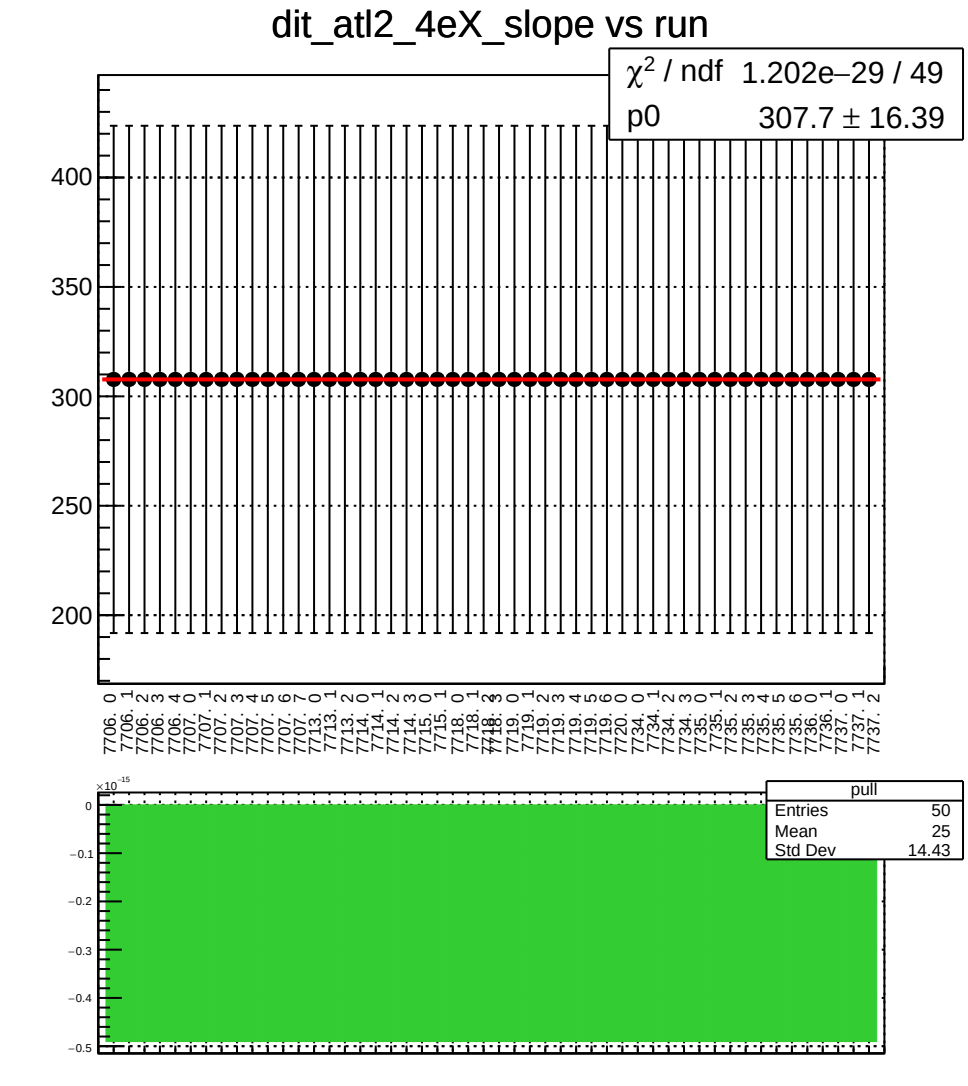

dit_atl1_11X12X_slope vs run
χ² / ndf 2.031e−27 / 49
p0 7.371 ± 0.05912
7.8
7.6
7.4
7.2
7
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0
−1
−2
−3
−4
−5
−6
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −6.374e−15
Std Dev2.483e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

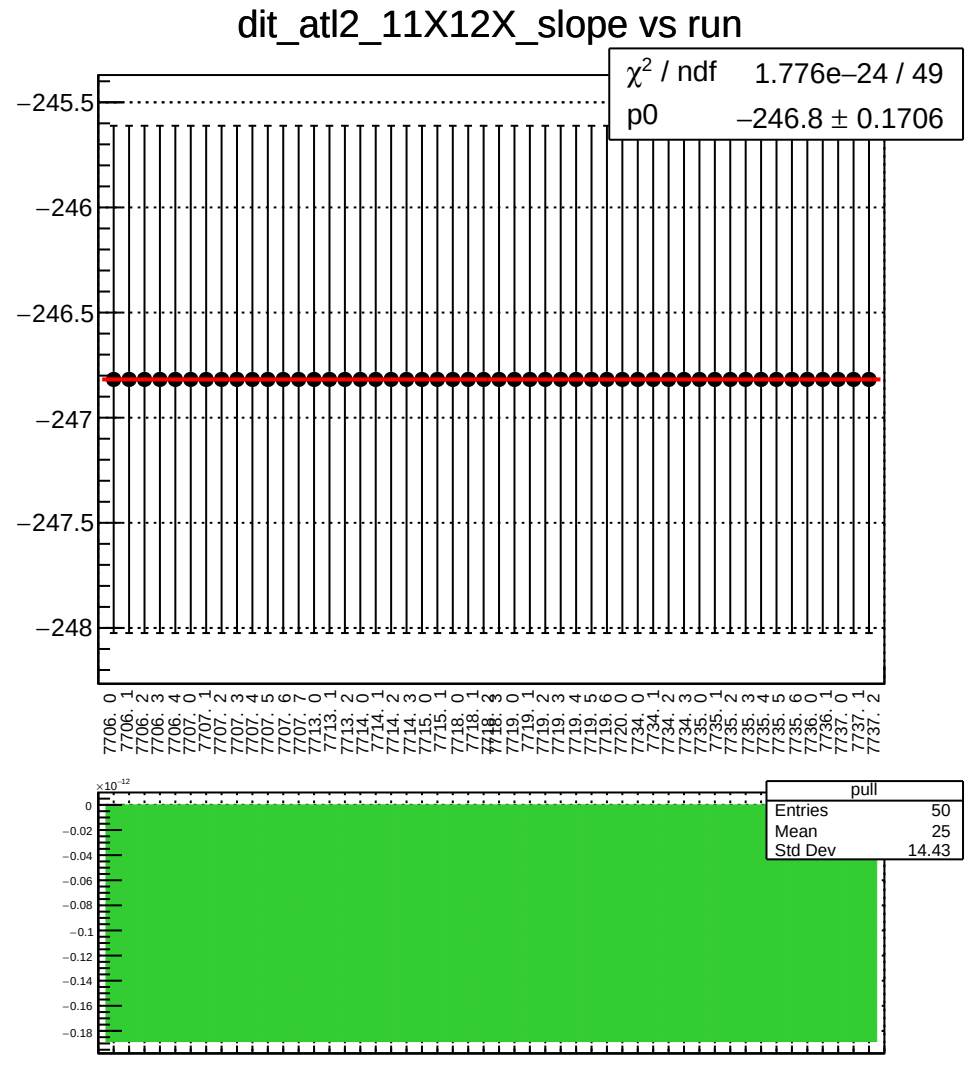

dit_atl1_4aY_slope vs run
χ² / ndf 1.148e−27 / 49
p0 8.584 ± 0.3146
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −4.791e−15
Std Dev 9.169e−23

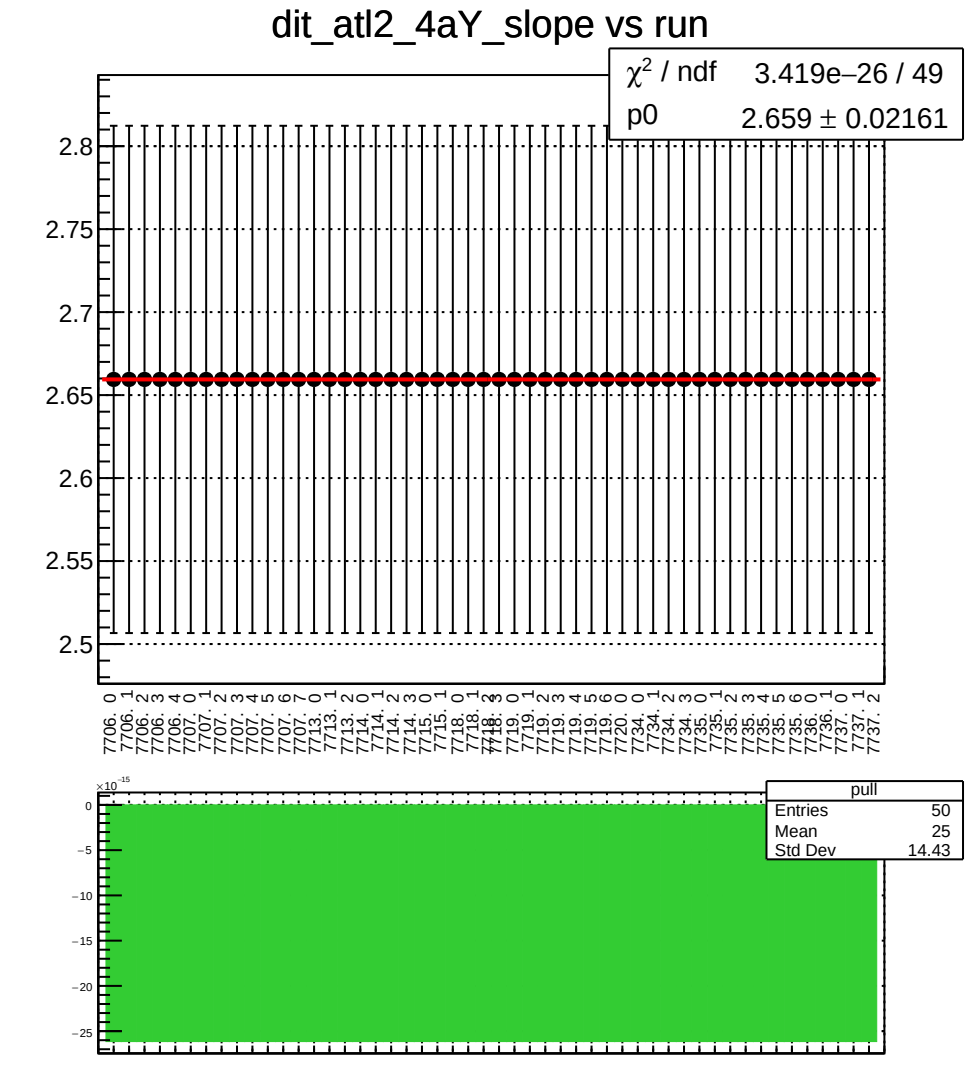

dit_atl1_4eY_slope vs run
χ² / ndf 1.602e−27 / 49
p0 −23.49 ± 0.5325
pull
Entries 50
Mean 25
Std Dev 14.43

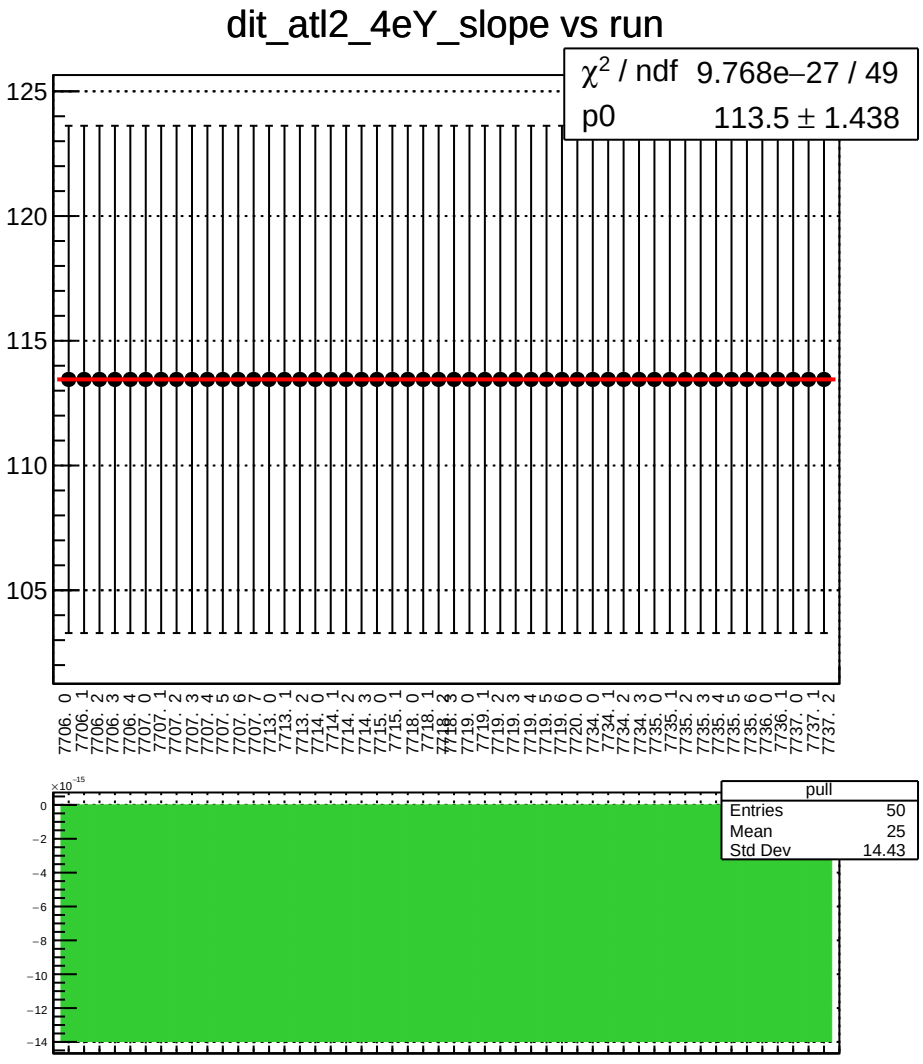

pull1D
Entries 50
Mean 5.661e−15
Std Dev1.674e−22

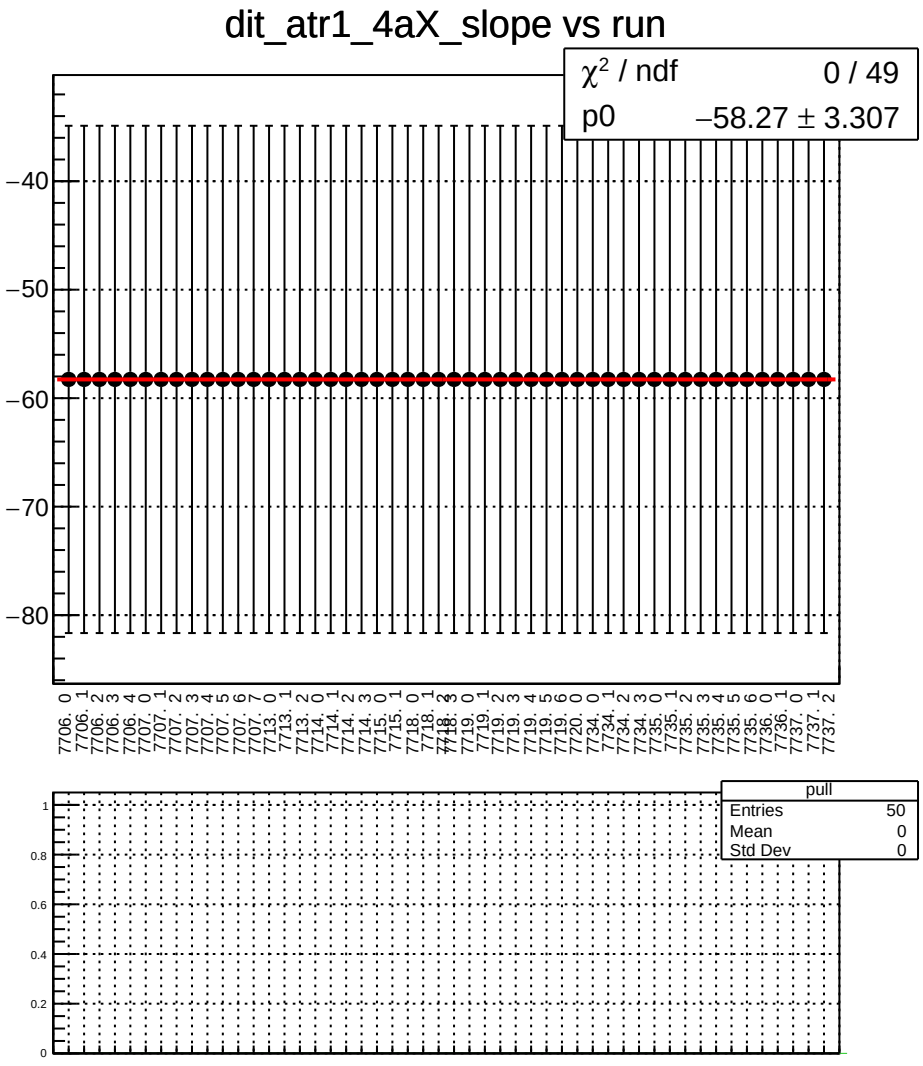

dit_atl2_4aX_slope vs run
χ² / ndf 3.877e−29 / 49
p0 −390.4 ± 18.26
−250
−300
−350
−400
−450
−500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −8.806e−16
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_4eX_slope vs run
χ² / ndf 1.202e−29 / 49
p0 307.7 ± 16.39
400
350
300
250
200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −4.904e−16
Std Dev 2.195e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_11X12X_slope vs run
χ² / ndf 1.776e−24 / 49
p0 −246.8 ± 0.1706
−245.5
−246
−246.5
−247
−247.5
−248
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.885e−13
Std Dev6.776e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_4aY_slope vs run
χ² / ndf 3.419e−26 / 49
p0 2.659 ± 0.02161
2.8
2.75
2.7
2.65
2.6
2.55
2.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 25
Std Dev 14.43
×10⁻¹⁵
0
−5
−10
−15
−20
−25
pull1D
Entries 50
Mean −2.615e−14
Std Dev1.497e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atl2_4eY_slope vs run
χ^2 / ndf 9.768e−27 / 49
p0 113.5 ± 1.438
125
120
115
110
105
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.398e−14
Std Dev 5.989e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_4aX_slope vs run
χ² / ndf 0 / 49
p0 −58.27 ± 3.307
−40
−50
−60
−70
−80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
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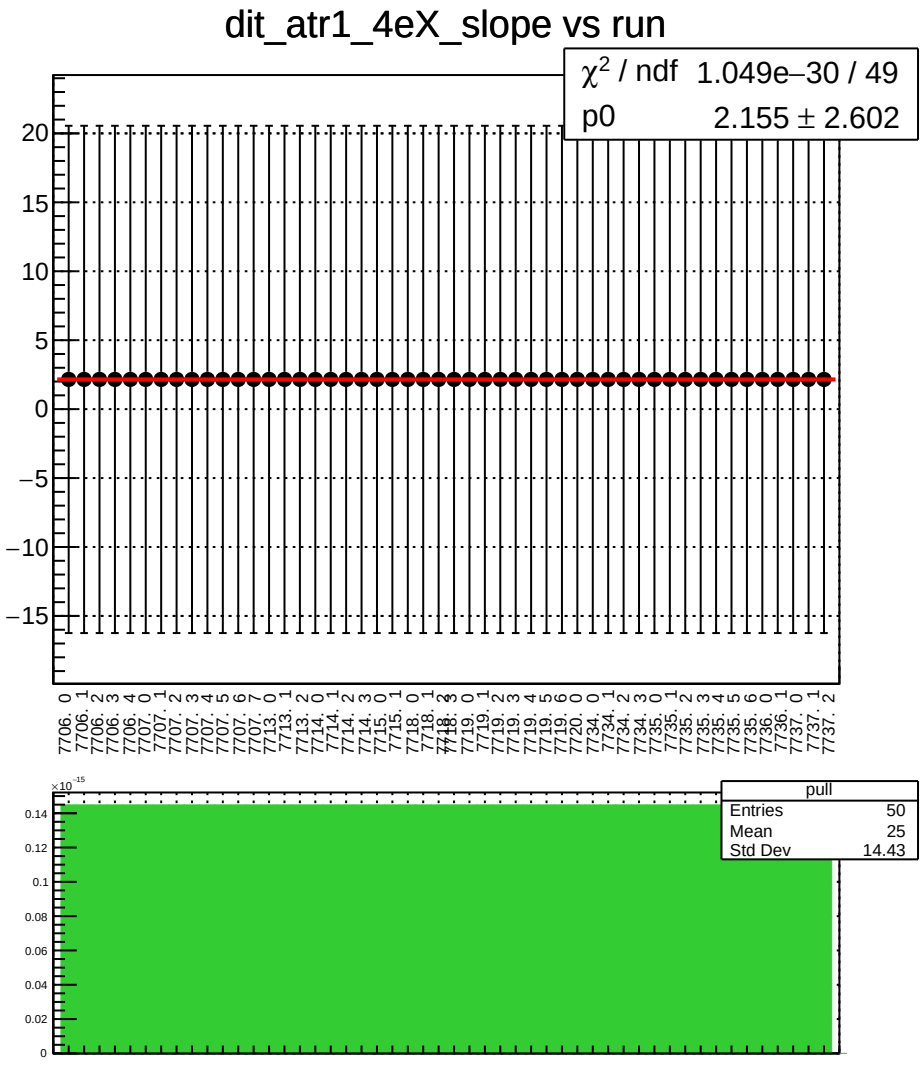
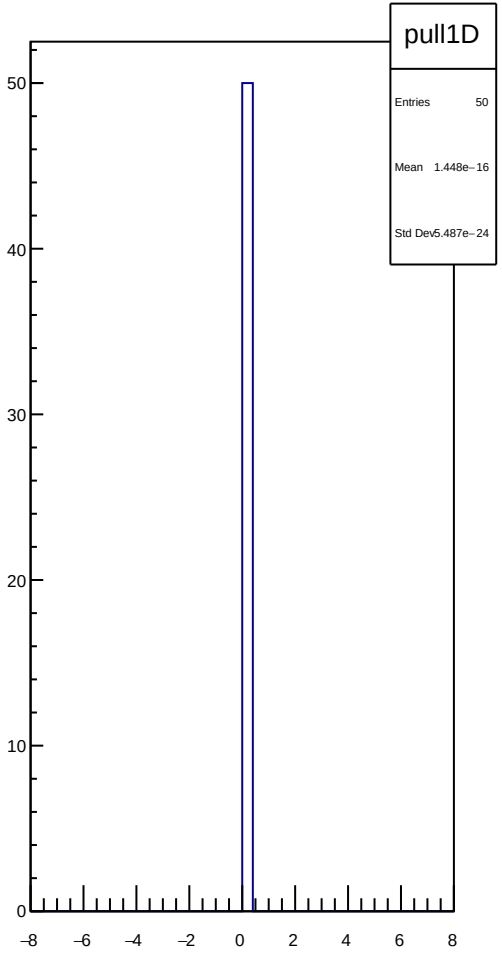
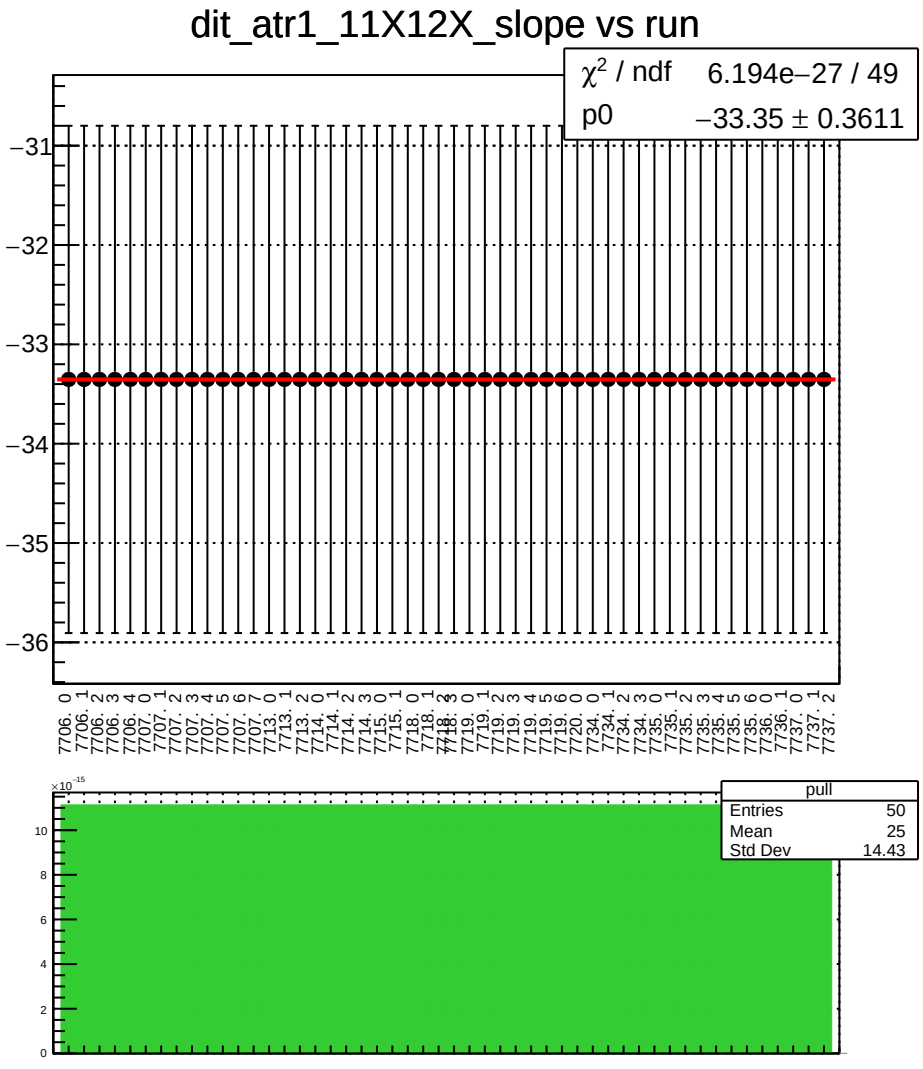
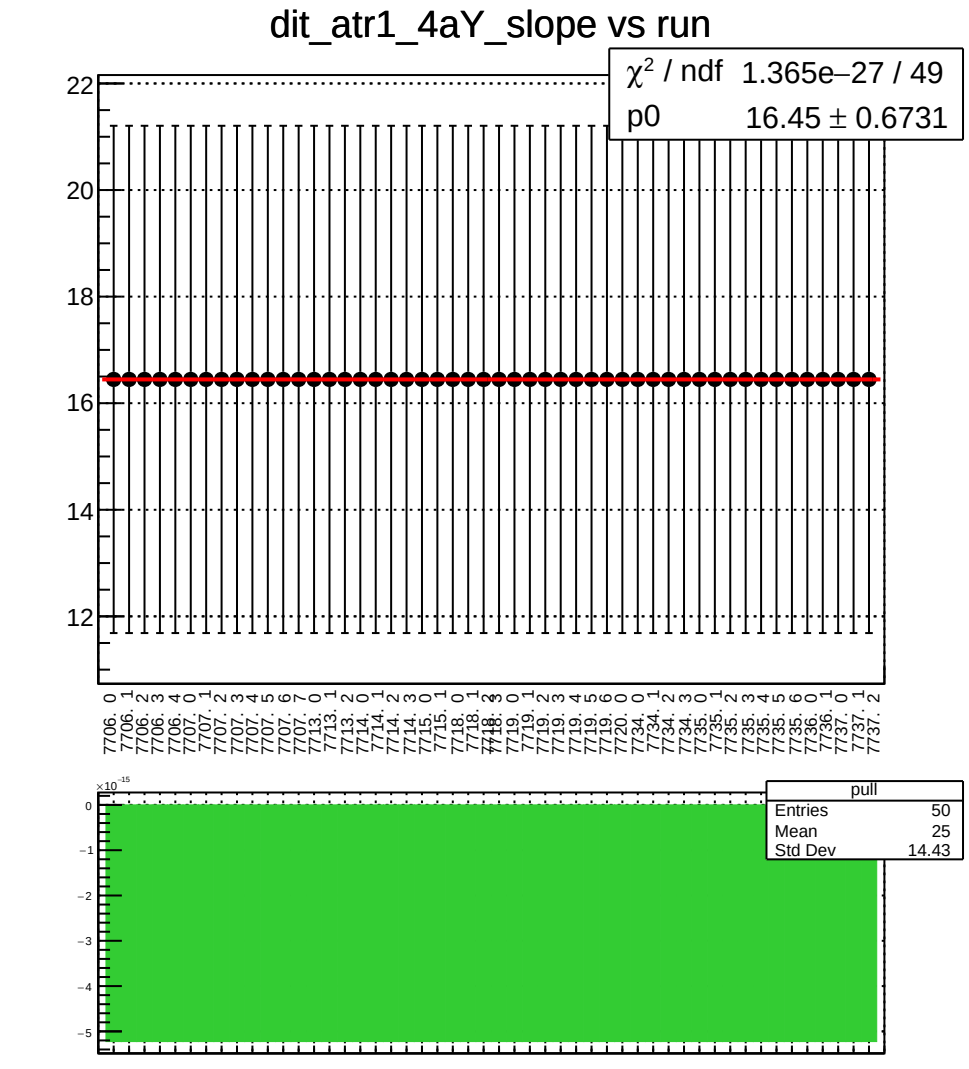
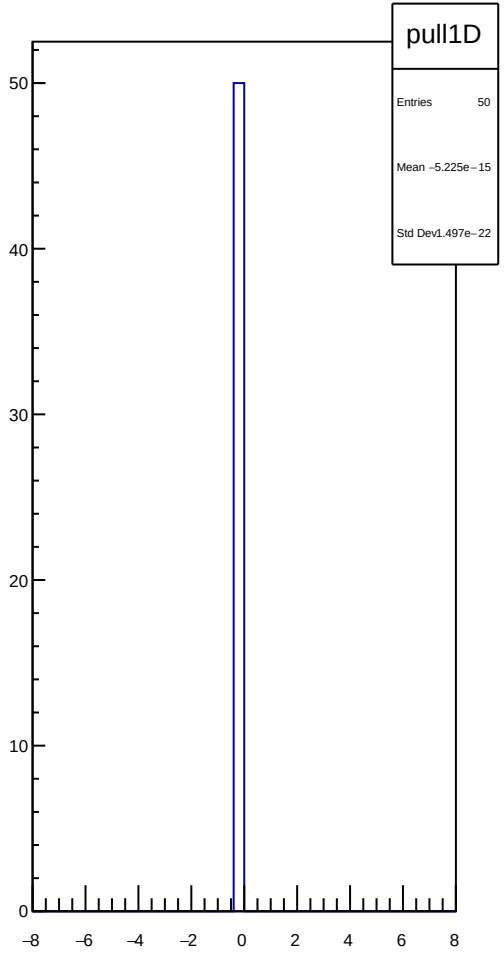
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 50
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

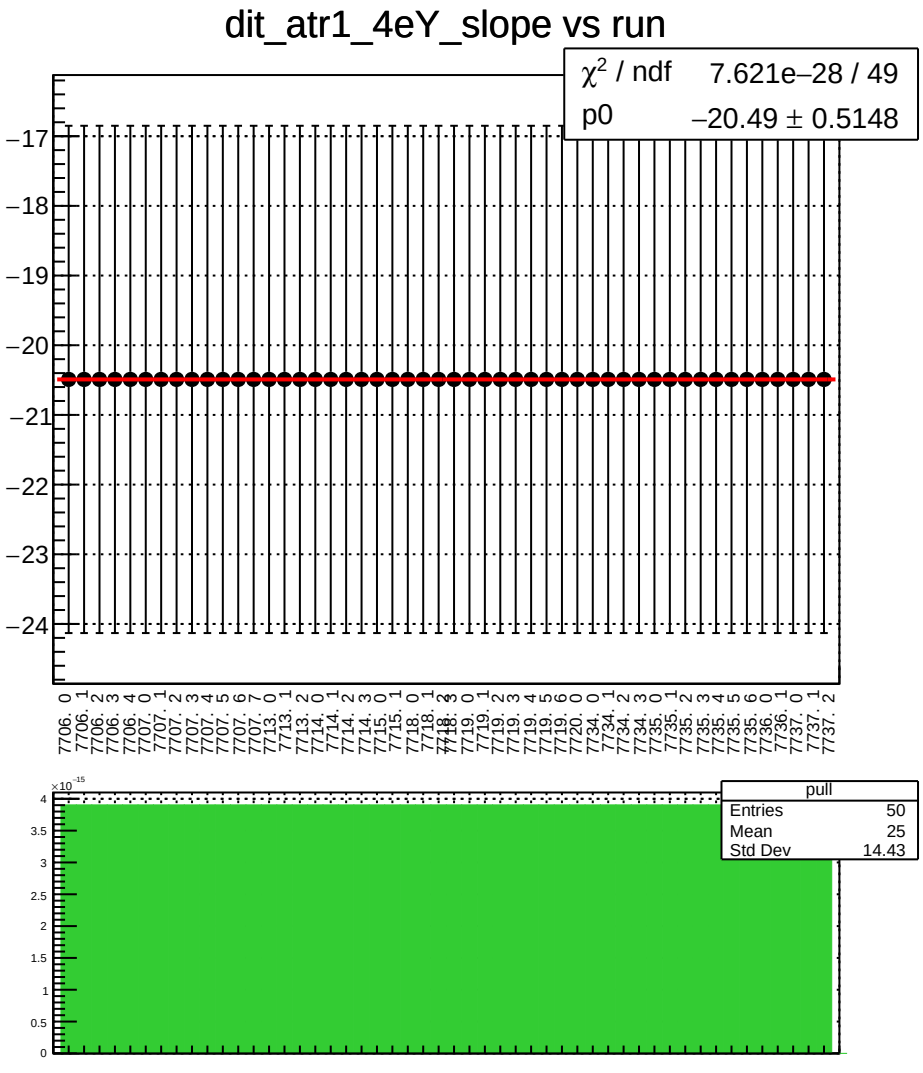

dit_atr1_4eX_slope vs run
χ² / ndf 1.049e−30 / 49
p0 2.155 ± 2.602
pull
Entries 50
Mean 25
Std Dev 14.43
×10⁻¹⁵


pull1D
Entries 50
Mean 1.448e−16
Std Dev 5.487e−24


dit_atr1_11X12X_slope vs run
χ² / ndf 6.194e−27 / 49
p0 −33.35 ± 0.3611
−31
−32
−33
−34
−35
−36
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.113e−14
Std Dev 2.118e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_4aY_slope vs run
χ² / ndf 1.365e−27 / 49
p0 16.45 ± 0.6731
22
20
18
16
14
12
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−1
−2
−3
−4
−5
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean −5.225e−15
Std Dev1.497e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_atr1_4eY_slope vs run
χ² / ndf 7.621e−28 / 49
p0 −20.49 ± 0.5148
−17
−18
−19
−20
−21
−22
−23
−24
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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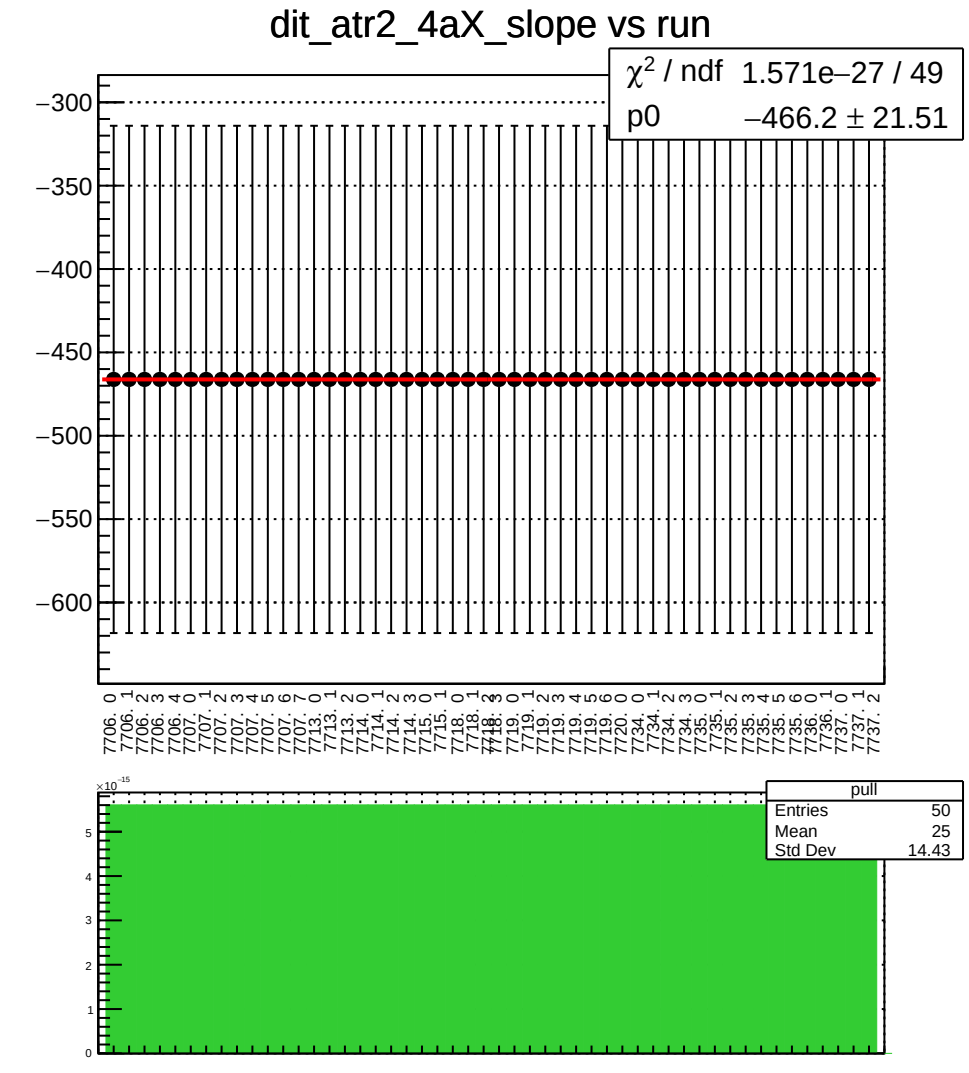
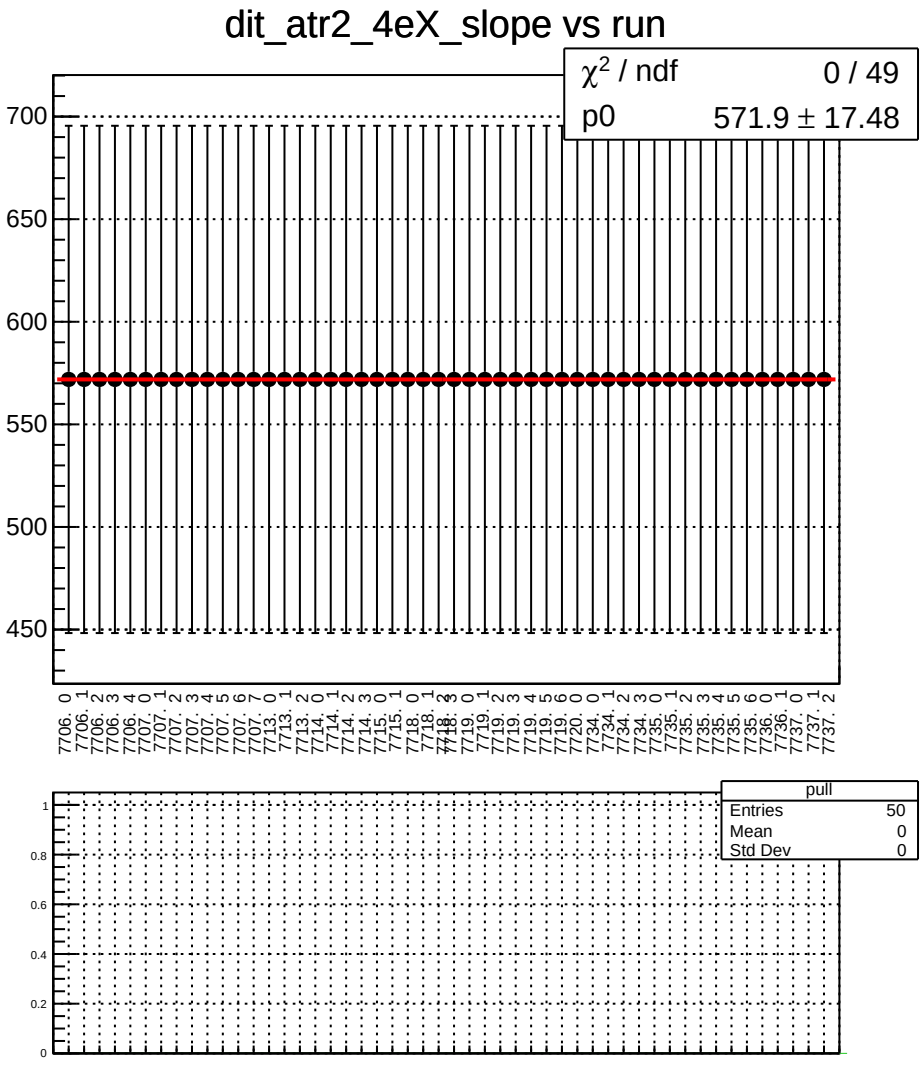
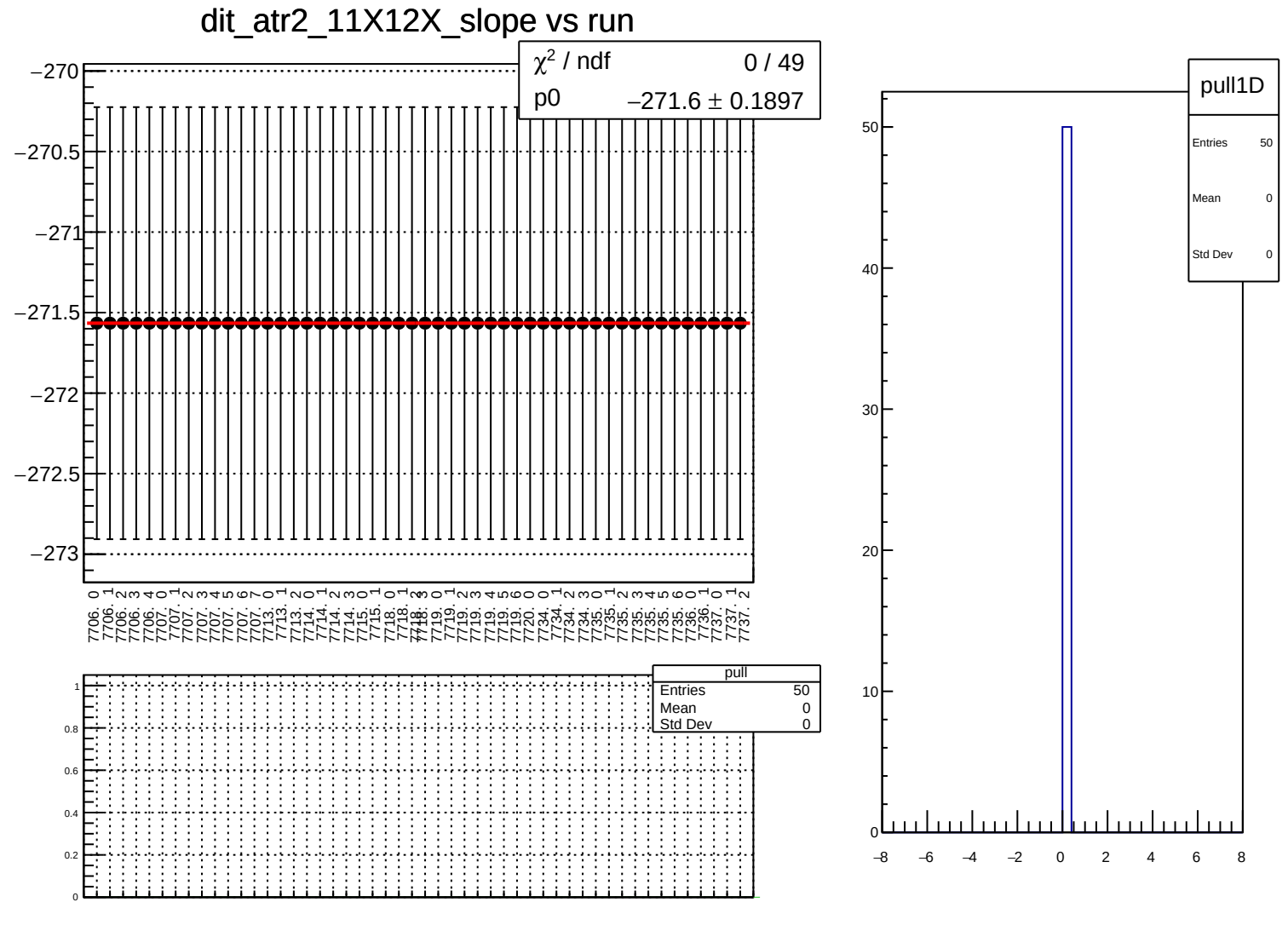
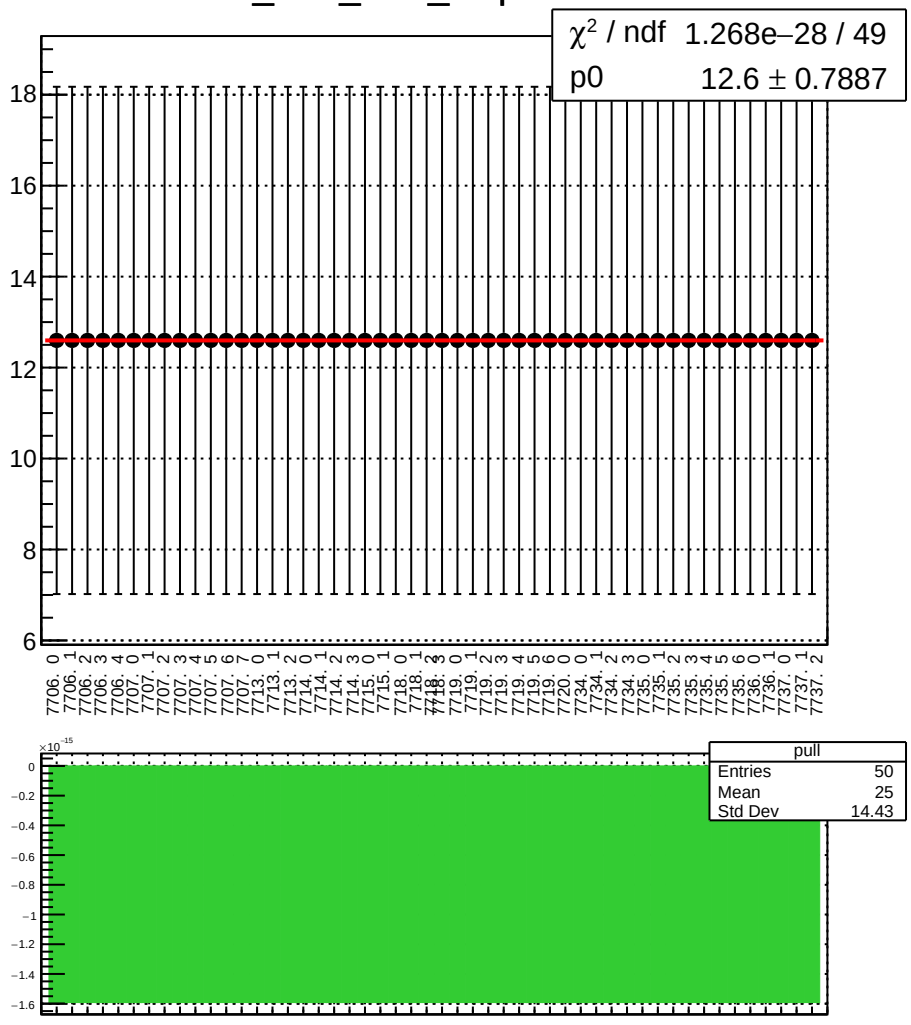
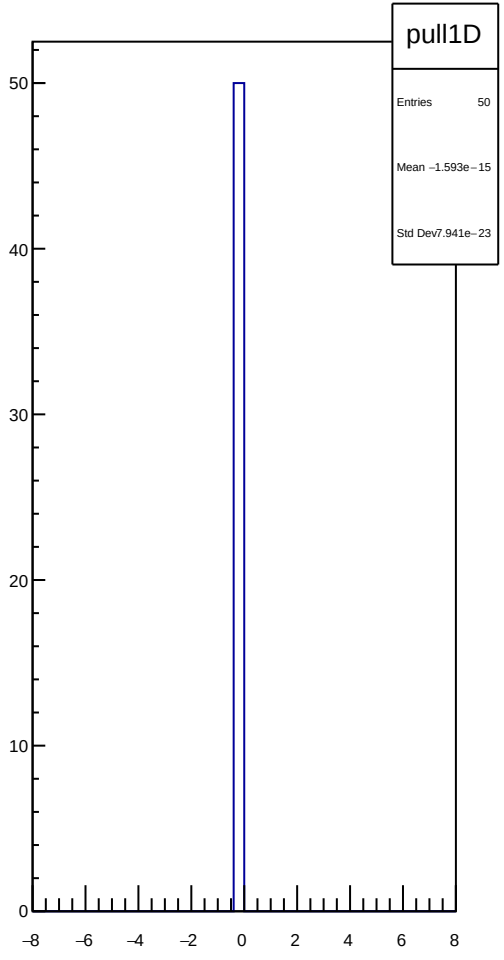
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 3.904e−15
Std Dev1.674e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

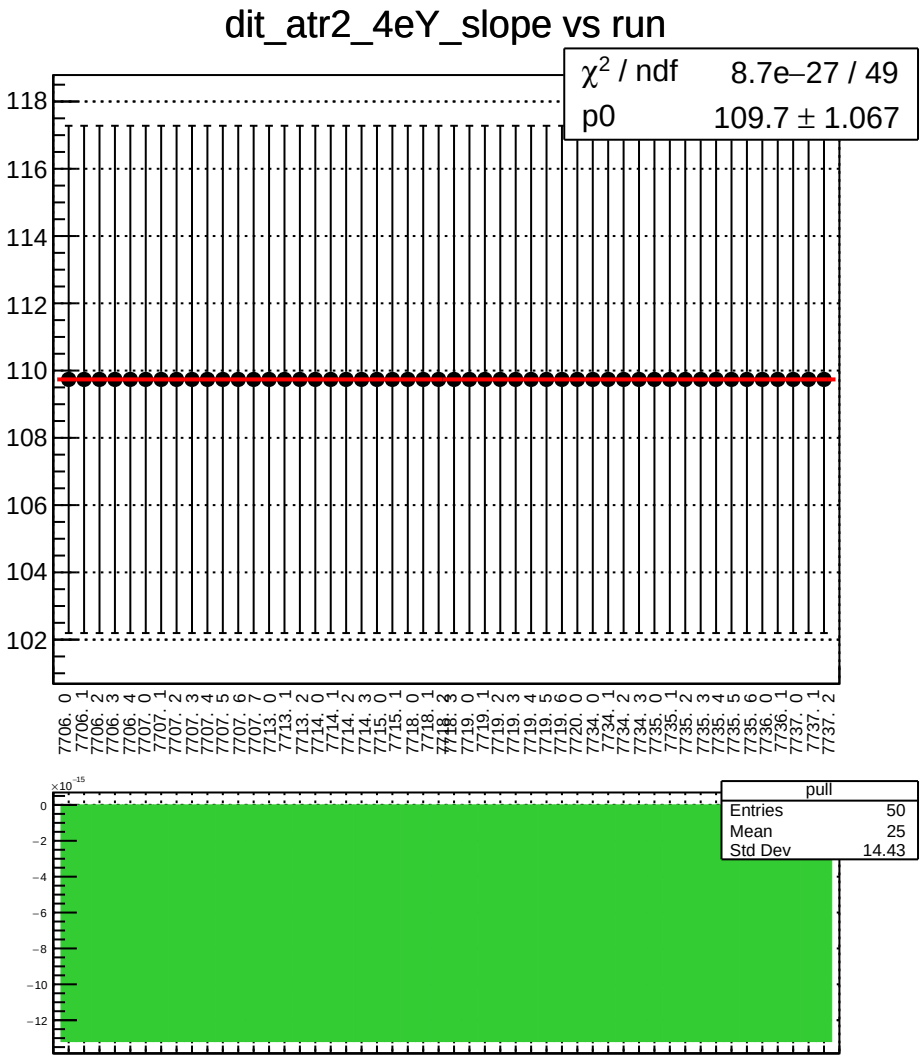

dit_atr2_4aX_slope vs run
χ² / ndf 1.571e−27 / 49
p0 −466.2 ± 21.51
−300
−350
−400
−450
−500
−550
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
1
2
3
4
5
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 5.605e−15
Std Dev1.297e−22
0
10
20
30
40
50
−8
−6
−4
−2
0
2
4
6
8

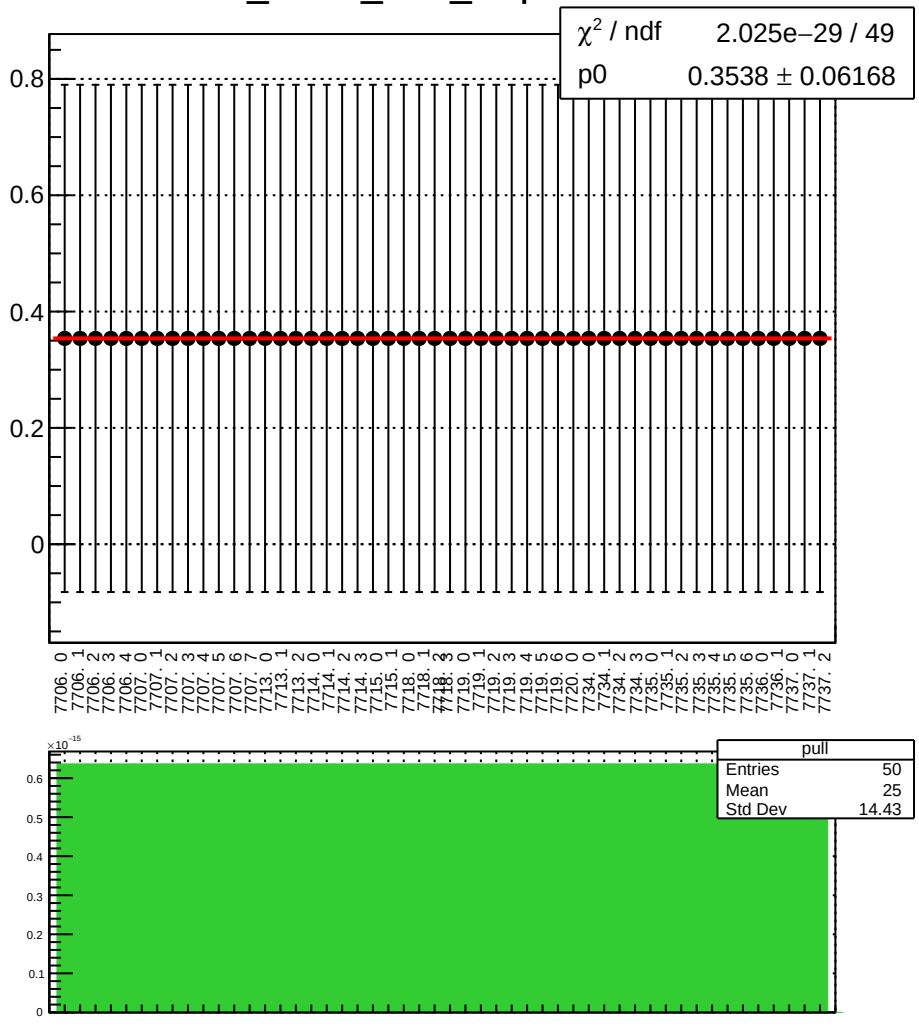

dit_atr2_4eX_slope vs run
χ² / ndf 0 / 49
p0 571.9 ± 17.48
700
650
600
550
500
450
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 50
Mean 0
Std Dev 0
50
40
30
20
10
0
–8
–6
–4
–2
0
2
4
6
8

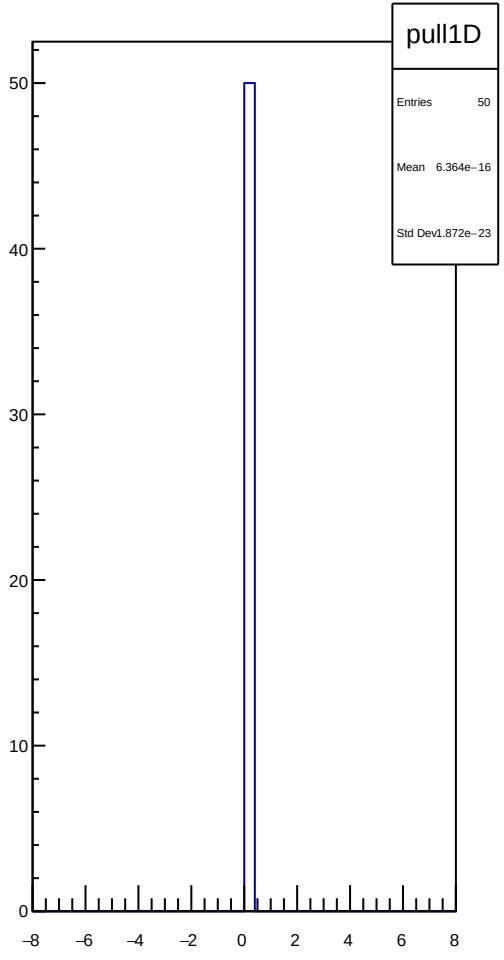

dit_atr2_11X12X_slope vs run
χ² / ndf 0 / 49
p0 −271.6 ± 0.1897
−270
−270.5
−271
−271.5
−272
−272.5
−273
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 50
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

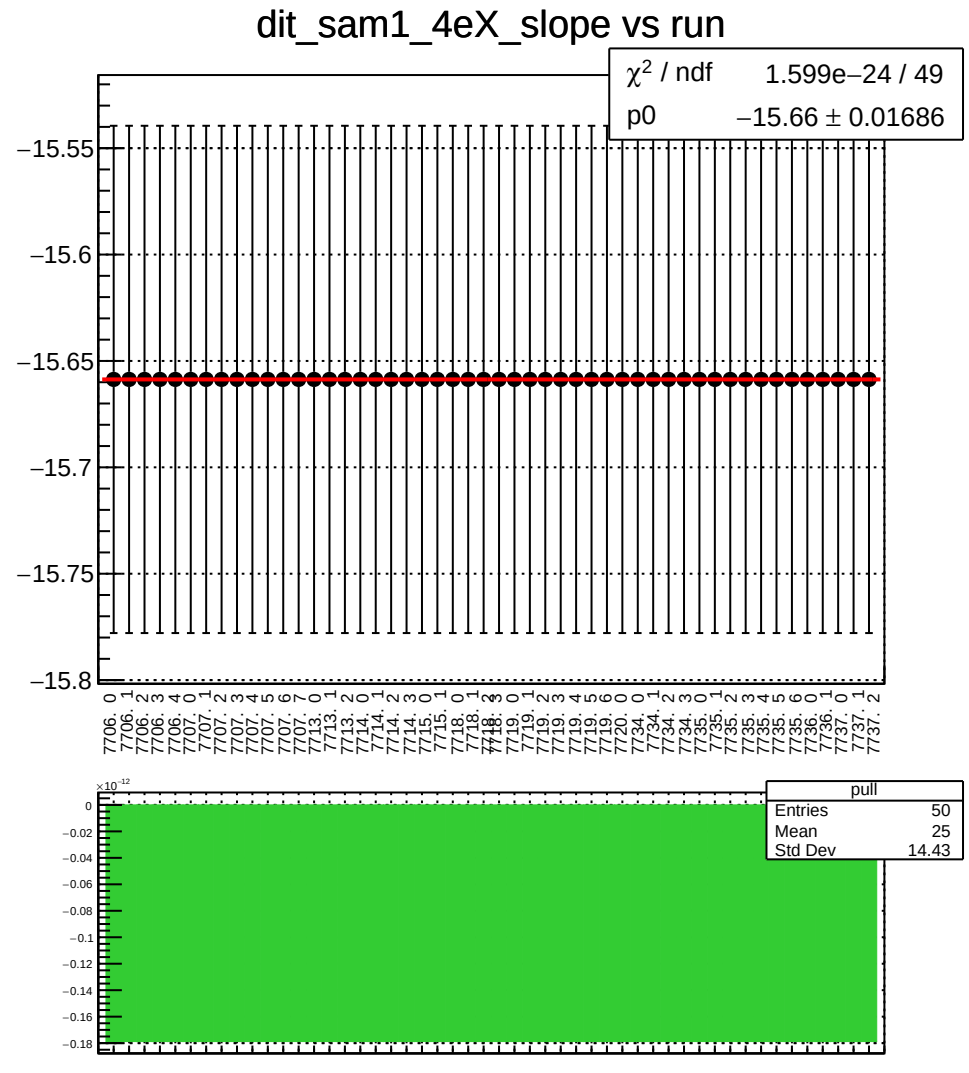

dit_atr2_4aY_slope vs run
χ² / ndf 1.268e−28 / 49
p0 12.6 ± 0.7887
pull
Entries 50
Mean 25
Std Dev 14.43

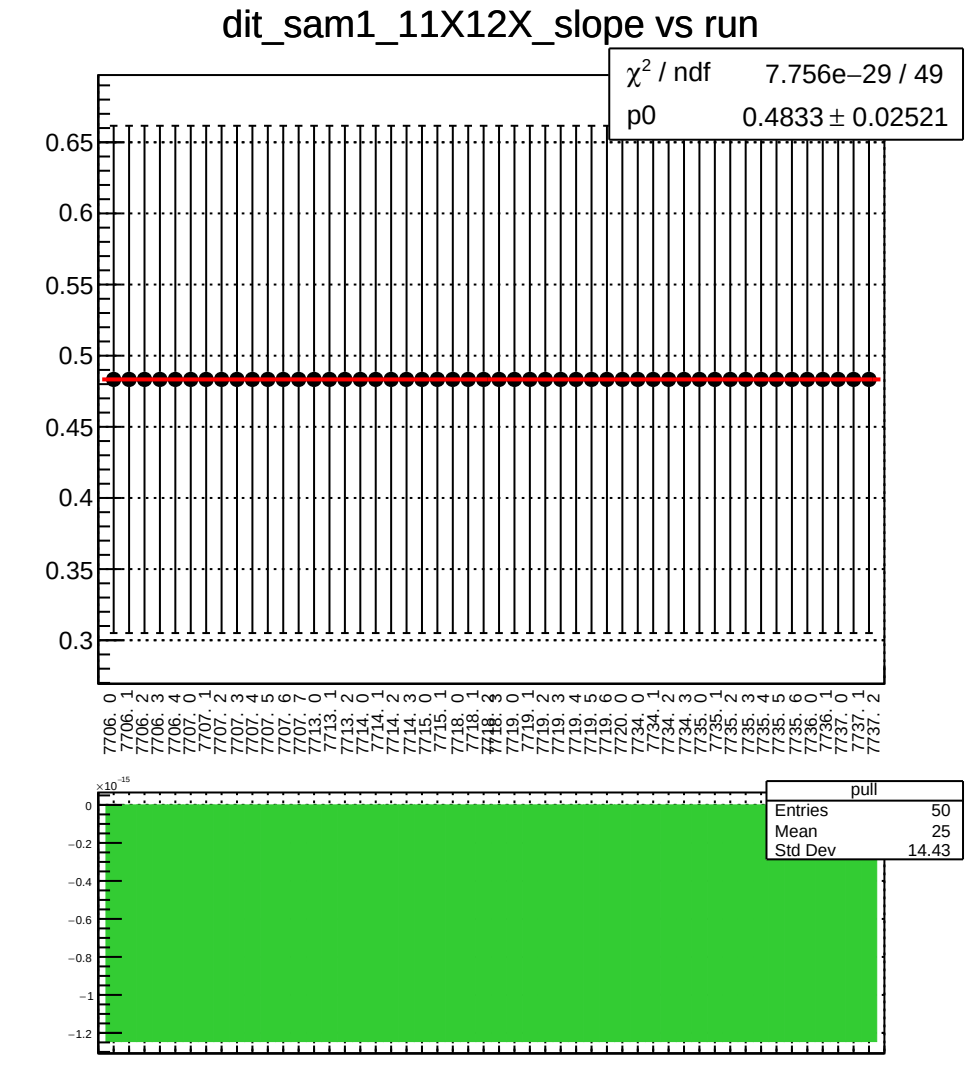

pull1D
Entries 50
Mean −1.593e−15
Std Dev7.941e−23


dit_atr2_4eY_slope vs run
χ² / ndf 8.7e−27 / 49
p0 109.7 ± 1.067
118
116
114
112
110
108
106
104
102
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−2
−4
−6
−8
−10
−12
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.319e−14
Std Dev 5.603e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_4aX_slope vs run
χ² / ndf 2.025e−29 / 49
p0 0.3538 ± 0.06168
0.8
0.6
0.4
0.2
0
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 6.364e−16
Std Dev1.872e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_4eX_slope vs run
χ² / ndf 1.599e−24 / 49
p0 −15.66 ± 0.01686
−15.55
−15.6
−15.65
−15.7
−15.75
−15.8
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.788e−13
Std Dev5.357e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam1_11X12X_slope vs run
χ² / ndf 7.756e−29 / 49
p0 0.4833 ± 0.02521
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 4
7707. 5
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7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻±⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.245e−15
Std Dev 2.292e−23
50
40
30
20
10
0
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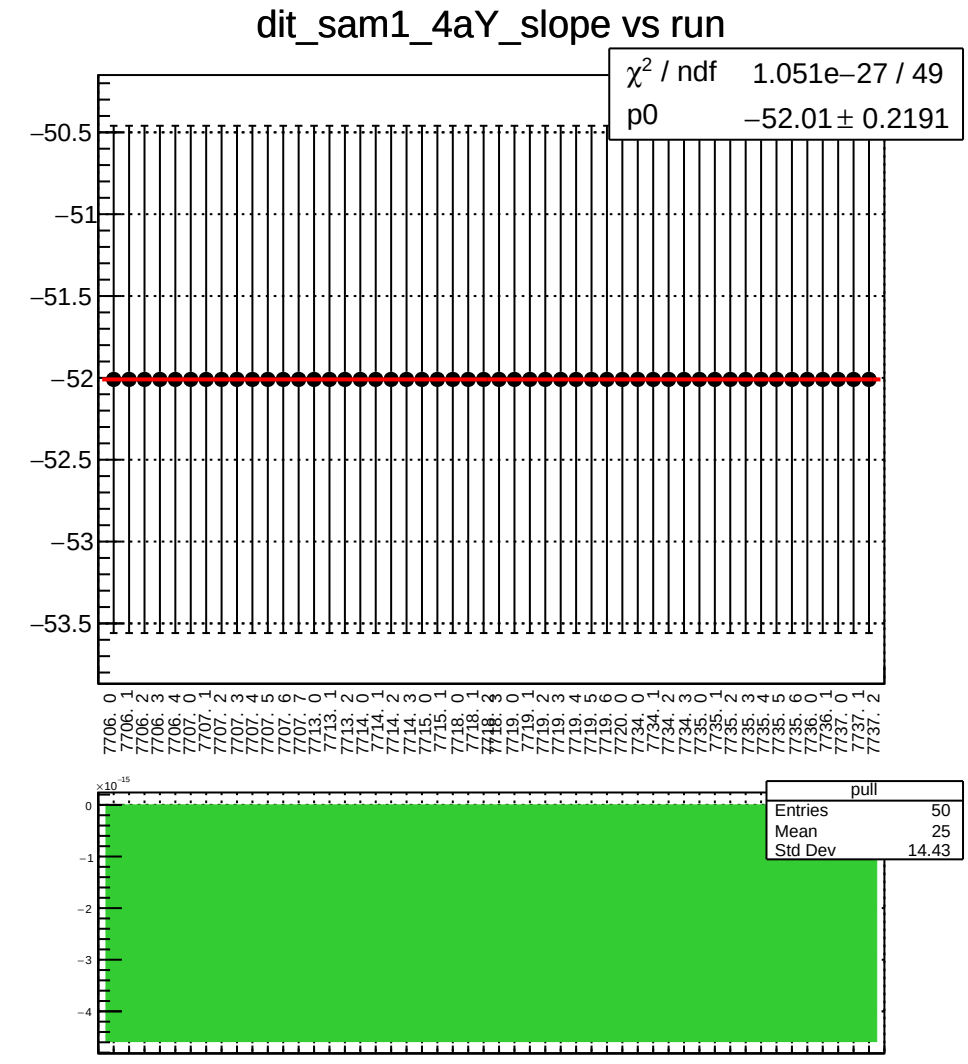
−6
−4
−2
0
2
4
6
8


dit_sam1_4aY_slope vs run
χ² / ndf 1.051e−27 / 49
p0 −52.01 ± 0.2191
−50.5
−51
−51.5
−52
−52.5
−53
−53.5
7706. 0
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7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
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7714. 3
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7718. 0
7718. 1
7718. 3
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7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
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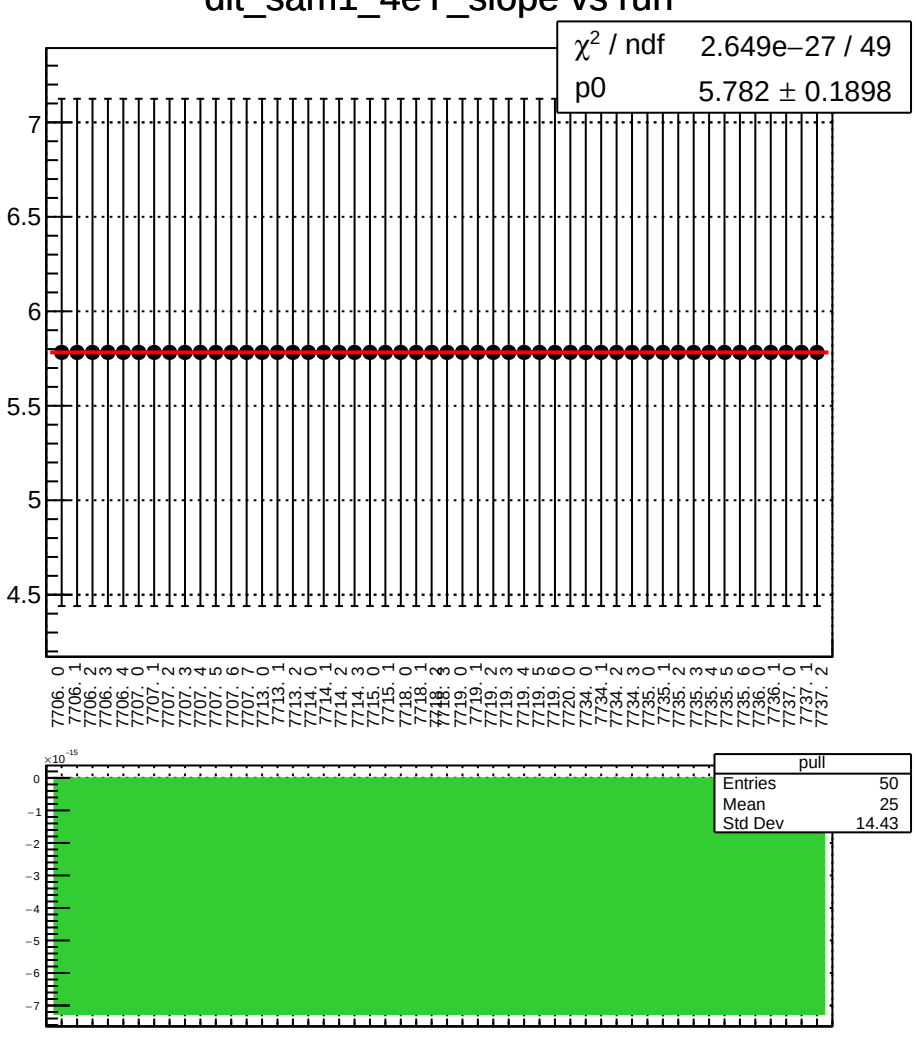
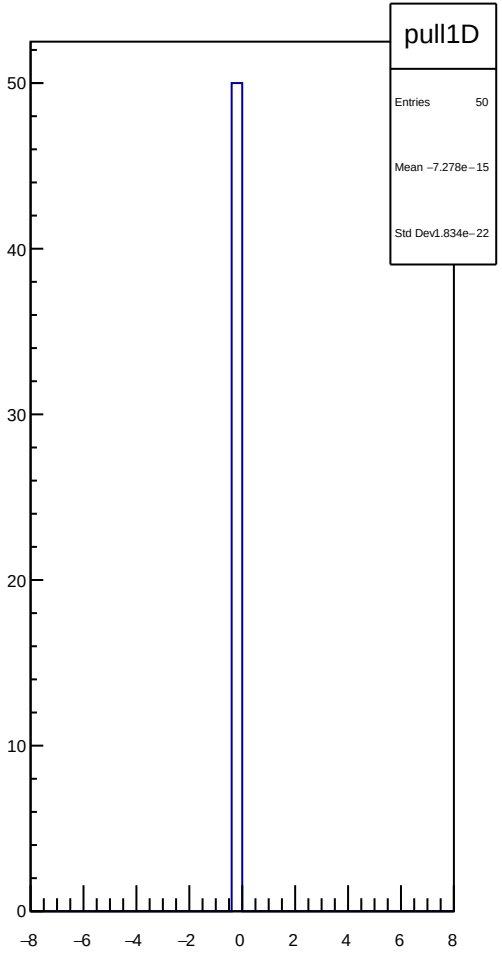
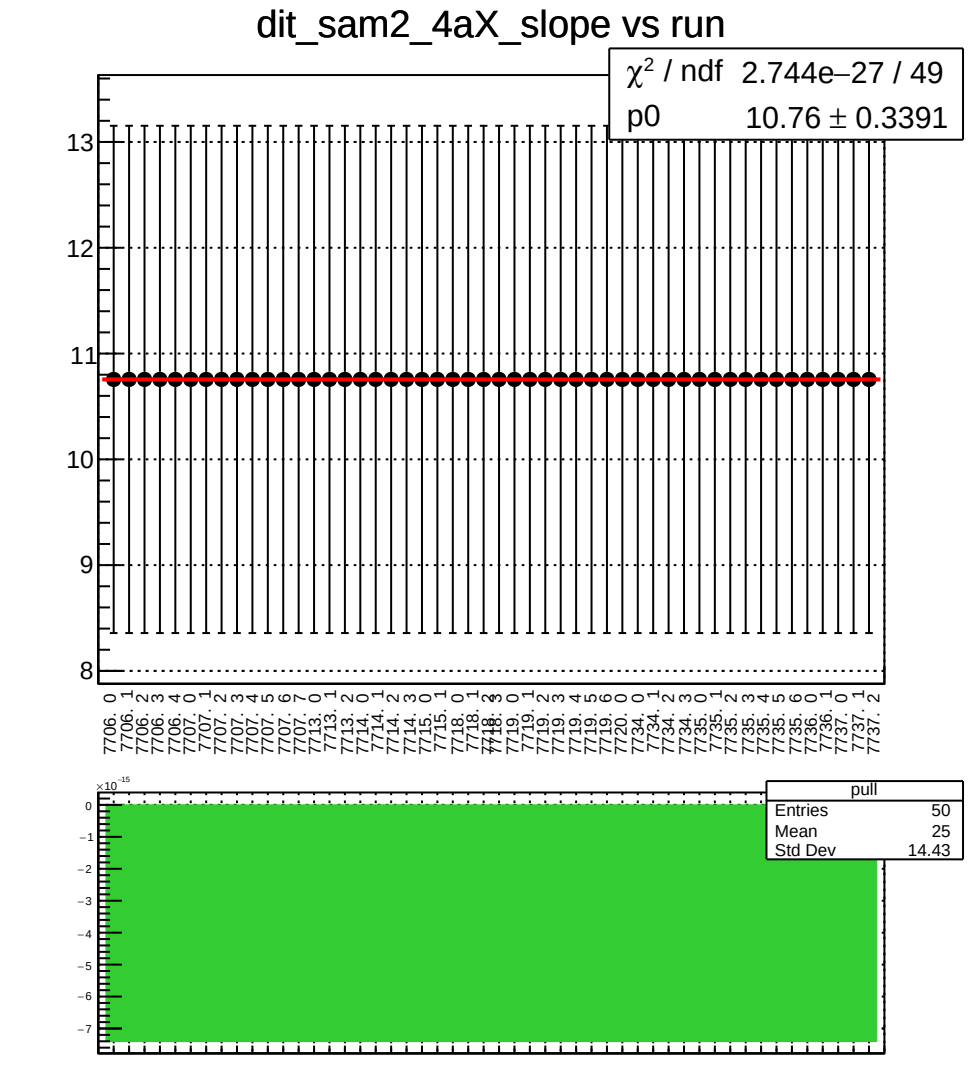
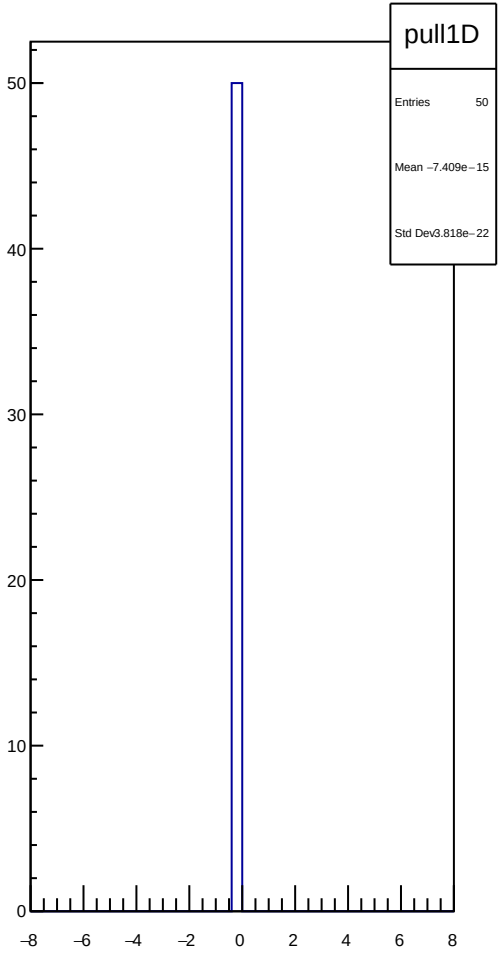
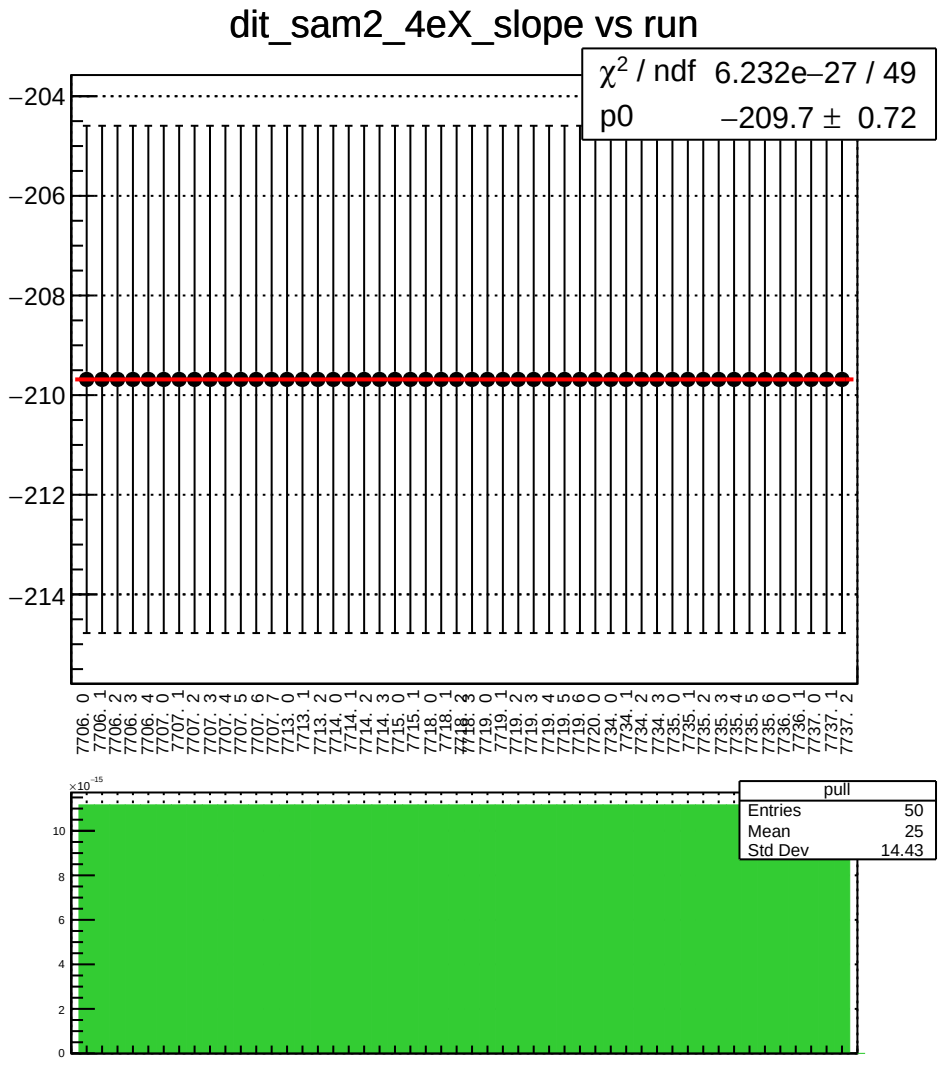
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0
−1
−2
−3
−4
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −4.586e−15
Std Dev1.834e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

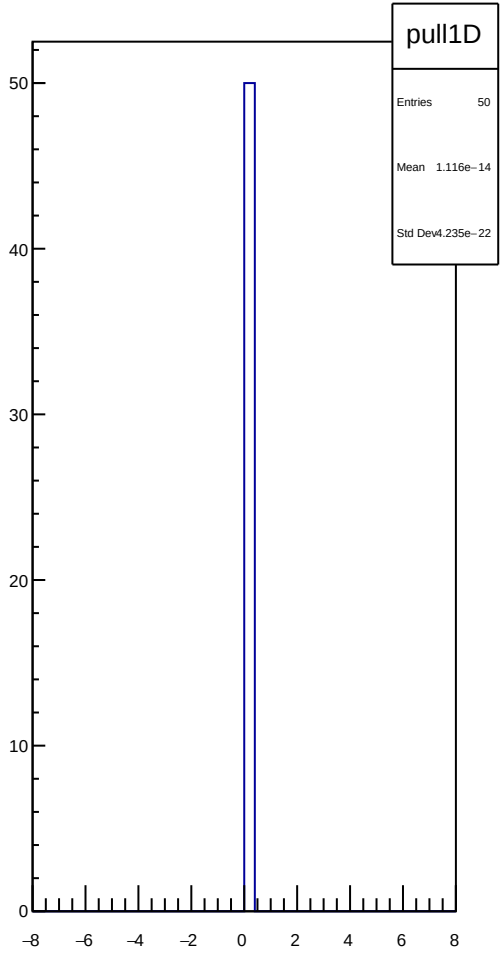

dit_sam1_4eY_slope vs run
χ² / ndf 2.649e−27 / 49
p0 5.782 ± 0.1898
pull
Entries 50
Mean 25
Std Dev 14.43

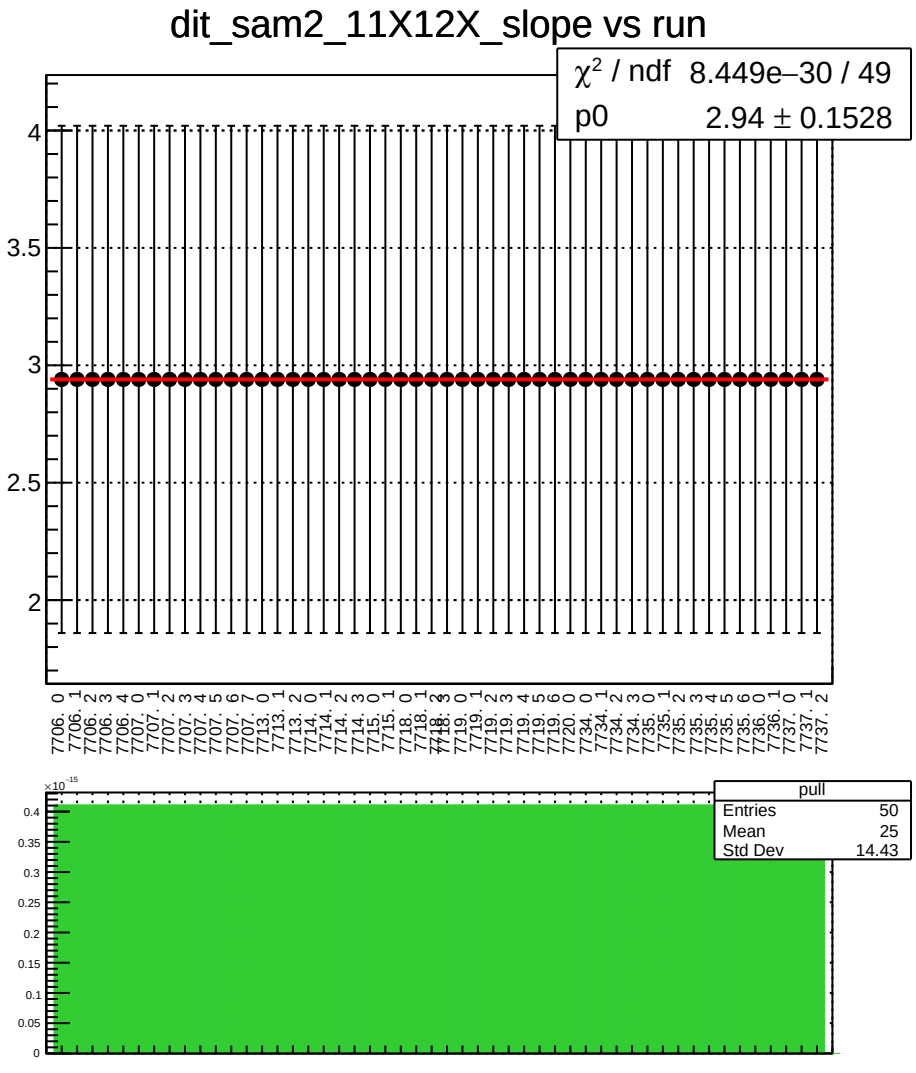

pull1D
Entries 50
Mean −7.278e−15
Std Dev1.834e−22

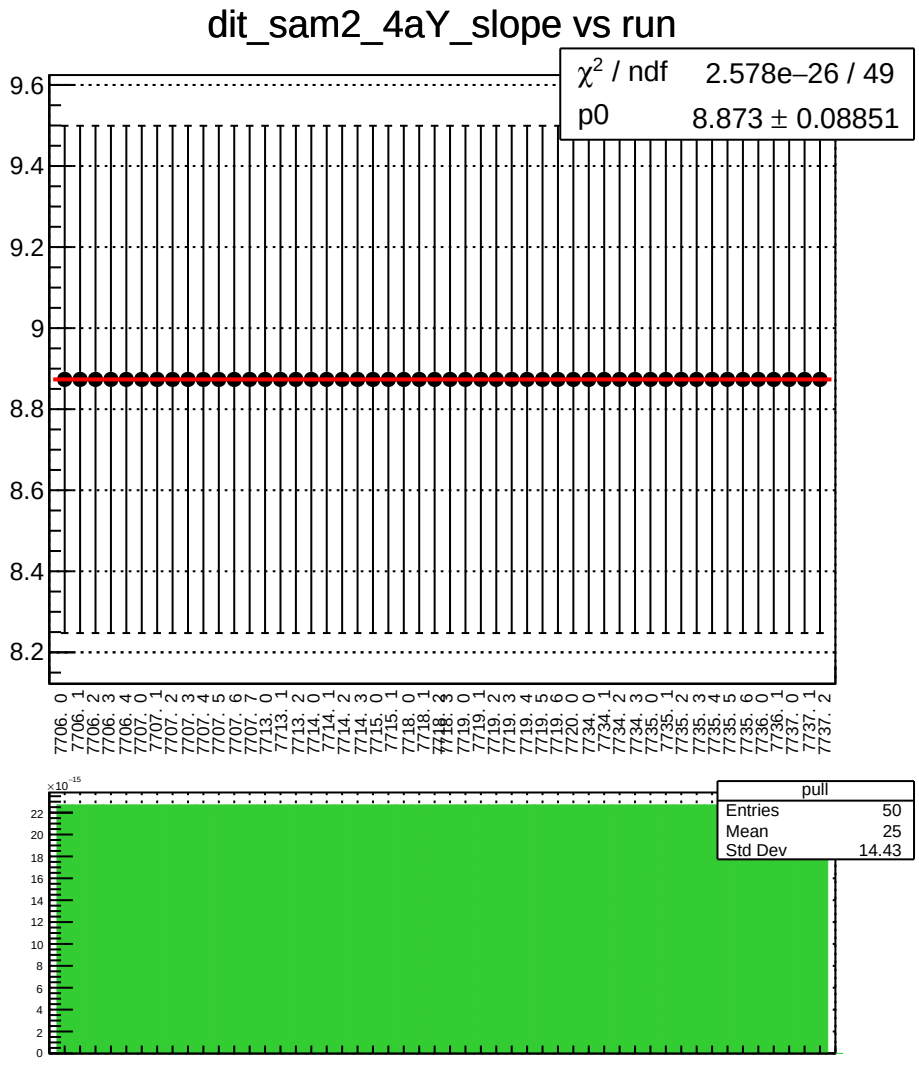

dit_sam2_4aX_slope vs run
χ² / ndf 2.744e−27 / 49
p0 10.76 ± 0.3391
pull
Entries 50
Mean 25
Std Dev 14.43

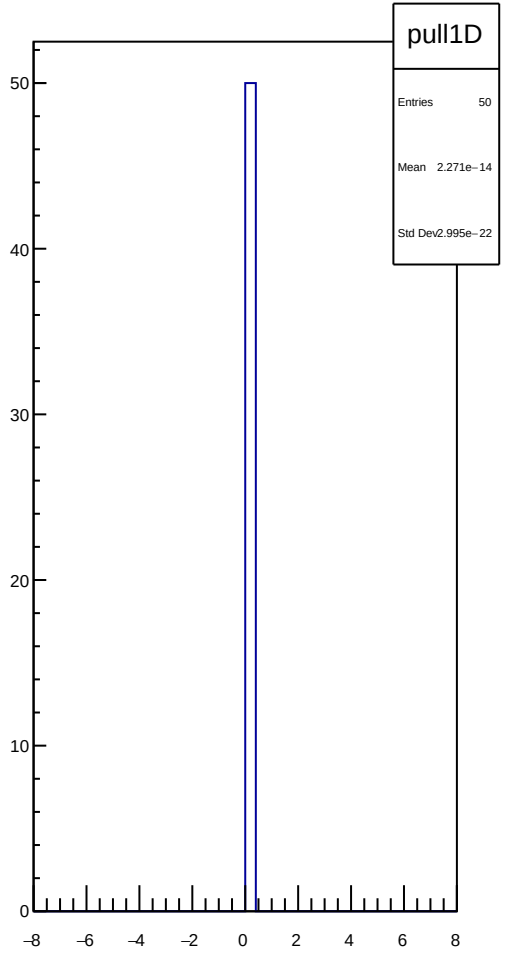

pull1D
Entries 50
Mean −7.409e−15
Std Dev3.818e−22

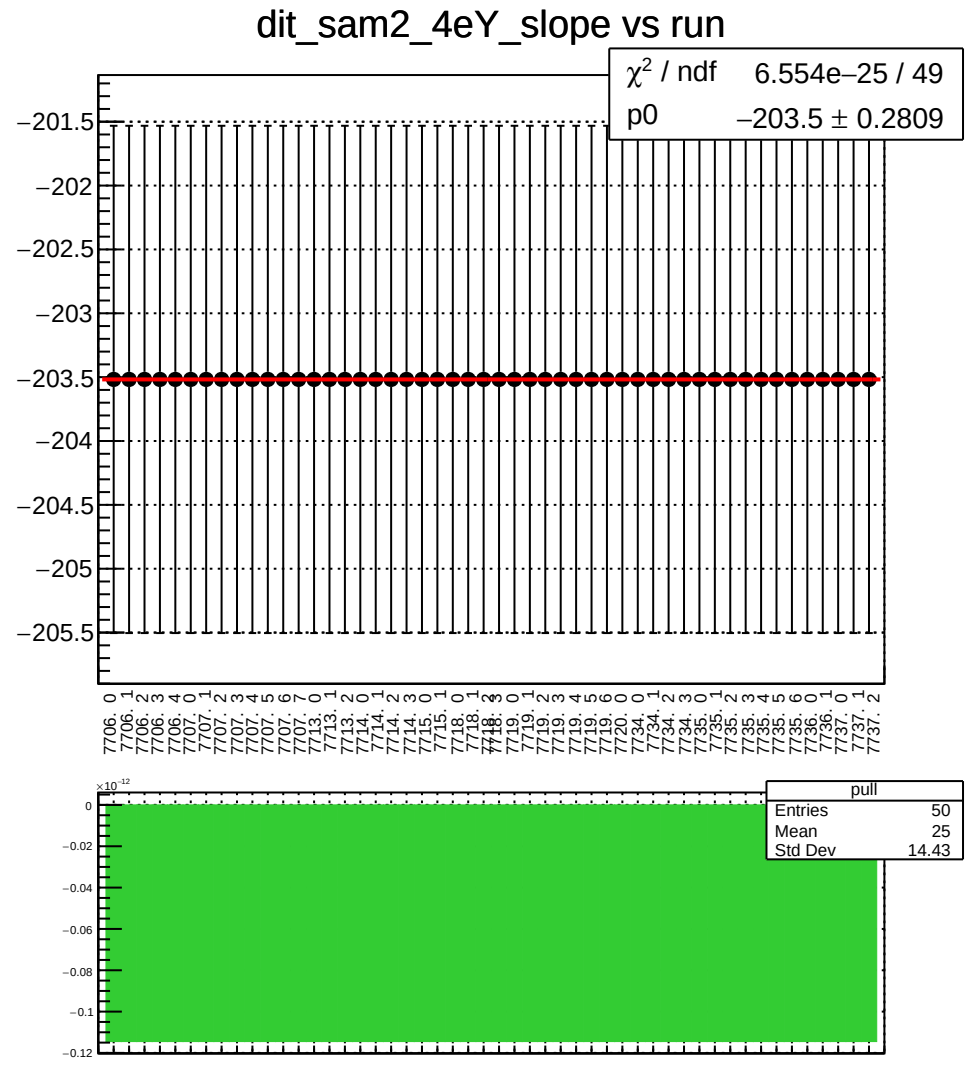

dit_sam2_4eX_slope vs run
χ² / ndf 6.232e−27 / 49
p0 −209.7 ± 0.72
−204
−206
−208
−210
−212
−214
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 1.116e−14
Std Dev4.235e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_11X12X_slope vs run
χ² / ndf 8.449e−30 / 49
p0 2.94 ± 0.1528
4
3.5
3
2.5
2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 4.111e−16
Std Dev 2.04e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_4aY_slope vs run
χ² / ndf 2.578e−26 / 49
p0 8.873 ± 0.08851
9.6
9.4
9.2
9
8.8
8.6
8.4
8.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
22
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 2.271e−14
Std Dev 2.995e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam2_4eY_slope vs run
χ² / ndf 6.554e−25 / 49
p0 −203.5 ± 0.2809
−201.5
−202
−202.5
−203
−203.5
−204
−204.5
−205
−205.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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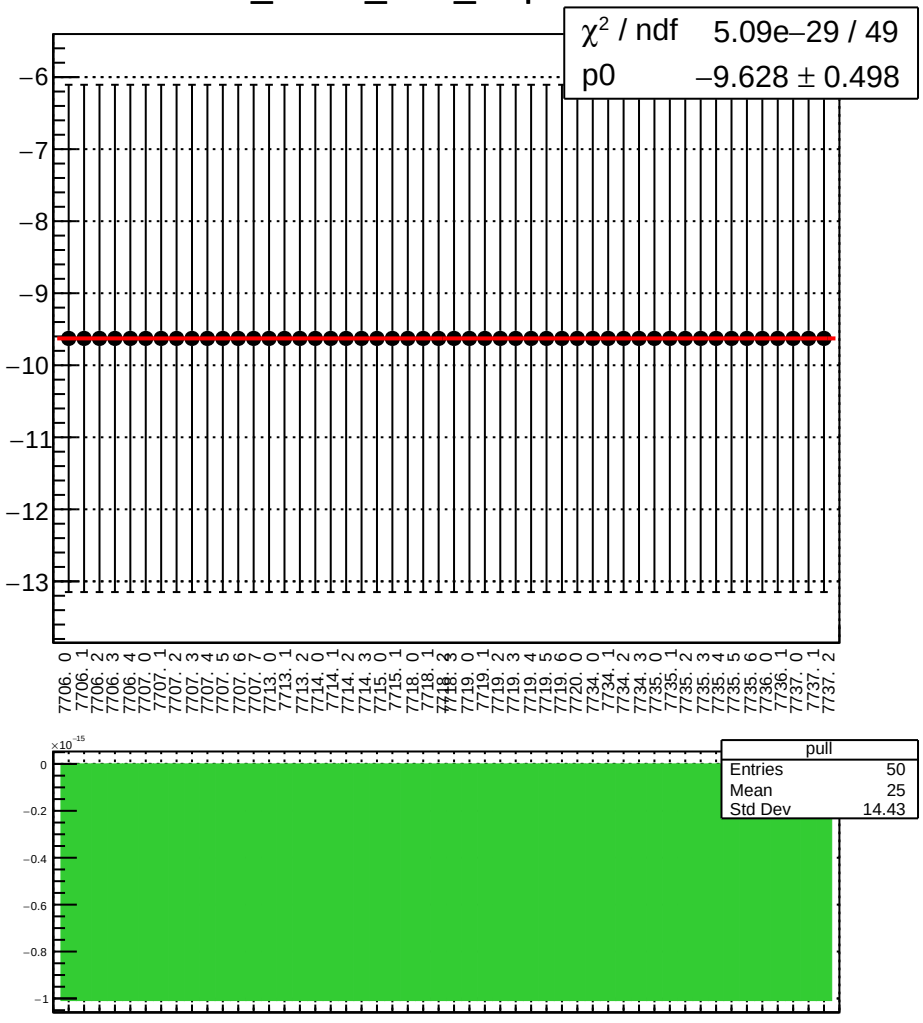
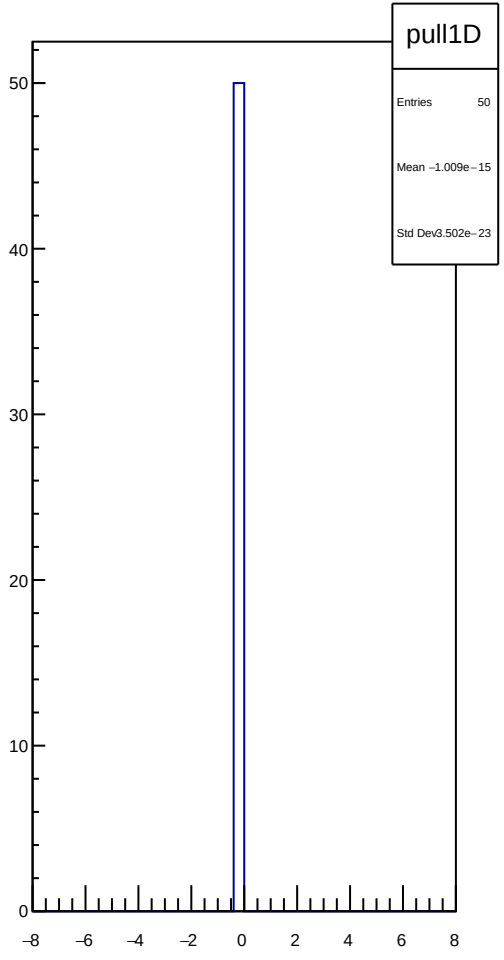
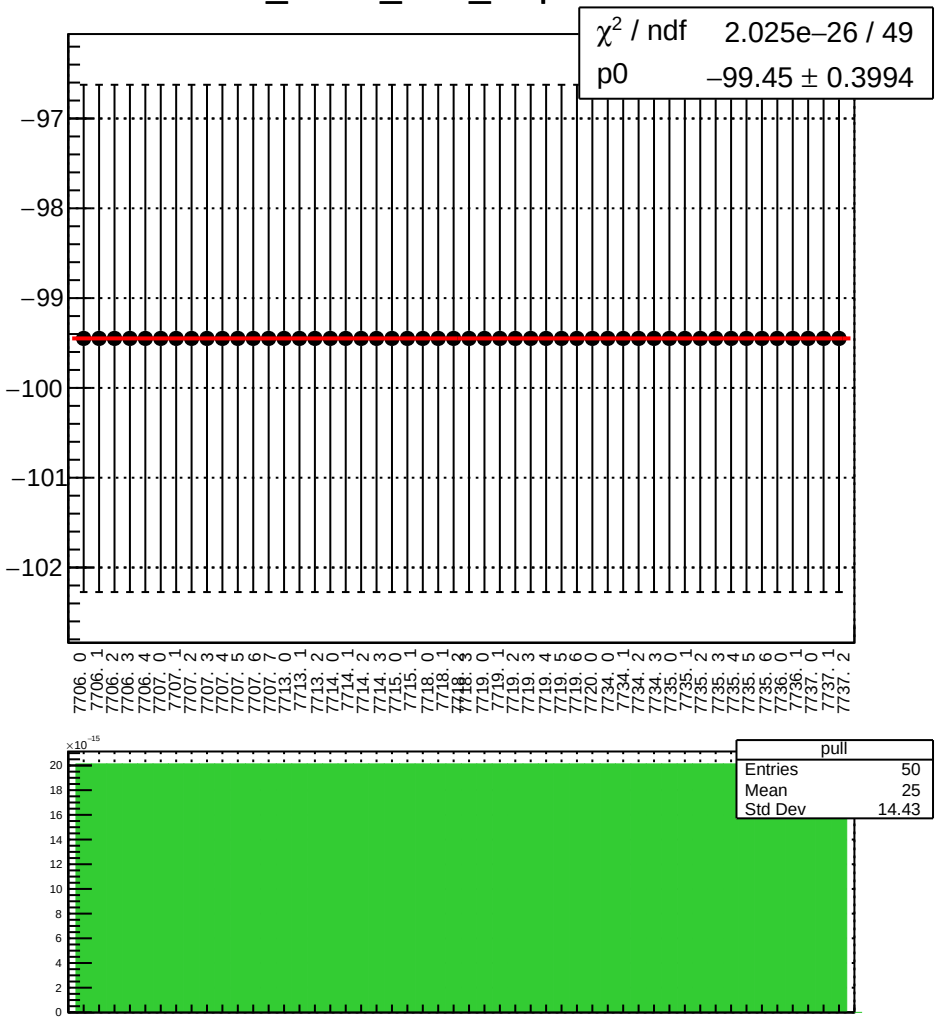
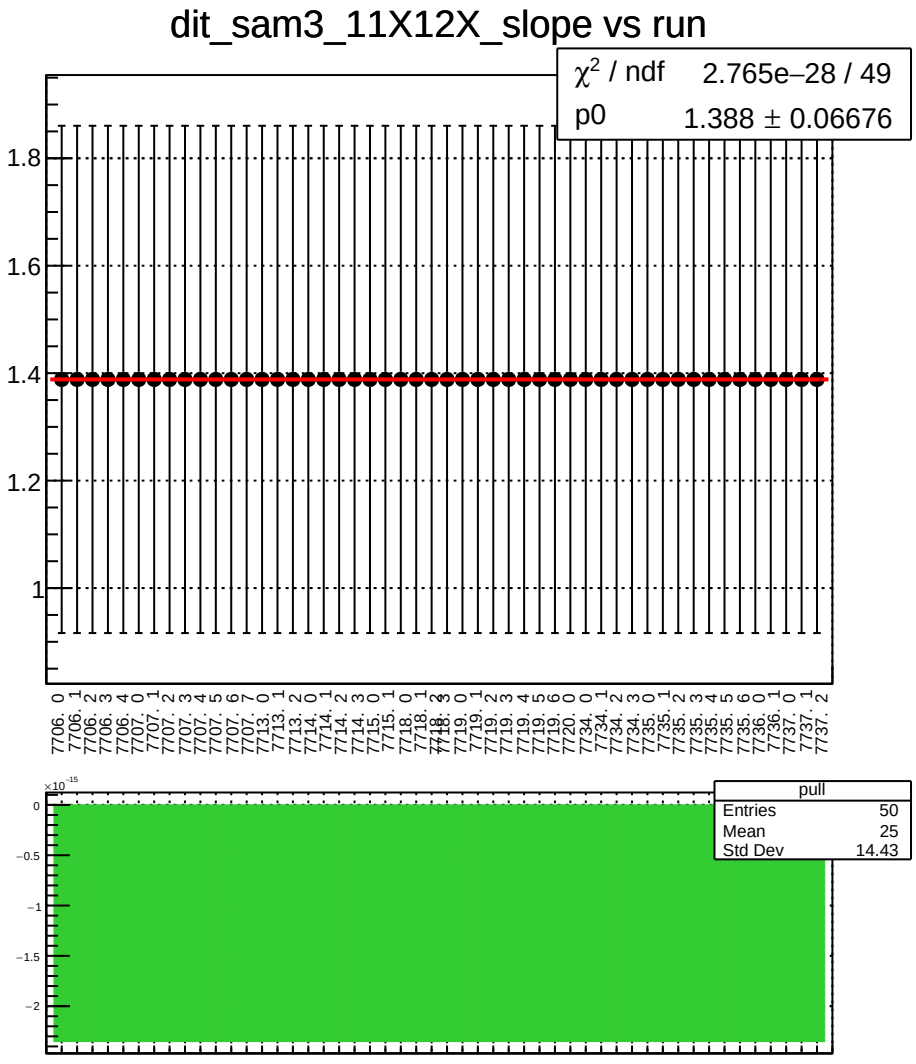
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.145e−13
Std Dev3.388e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_4aX_slope vs run
χ² / ndf 5.09e−29 / 49
p0 −9.628 ± 0.498
−6
−7
−8
−9
−10
−11
−12
−13
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean −1.009e−15
Std Dev3.502e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_4eX_slope vs run
χ² / ndf 2.025e−26 / 49
p0 −99.45 ± 0.3994
−97
−98
−99
−100
−101
−102
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
20
18
16
14
12
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 2.013e−14
Std Dev 5.989e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_11X12X_slope vs run
χ² / ndf 2.765e−28 / 49
p0 1.388 ± 0.06676
1.8
1.6
1.4
1.2
1
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
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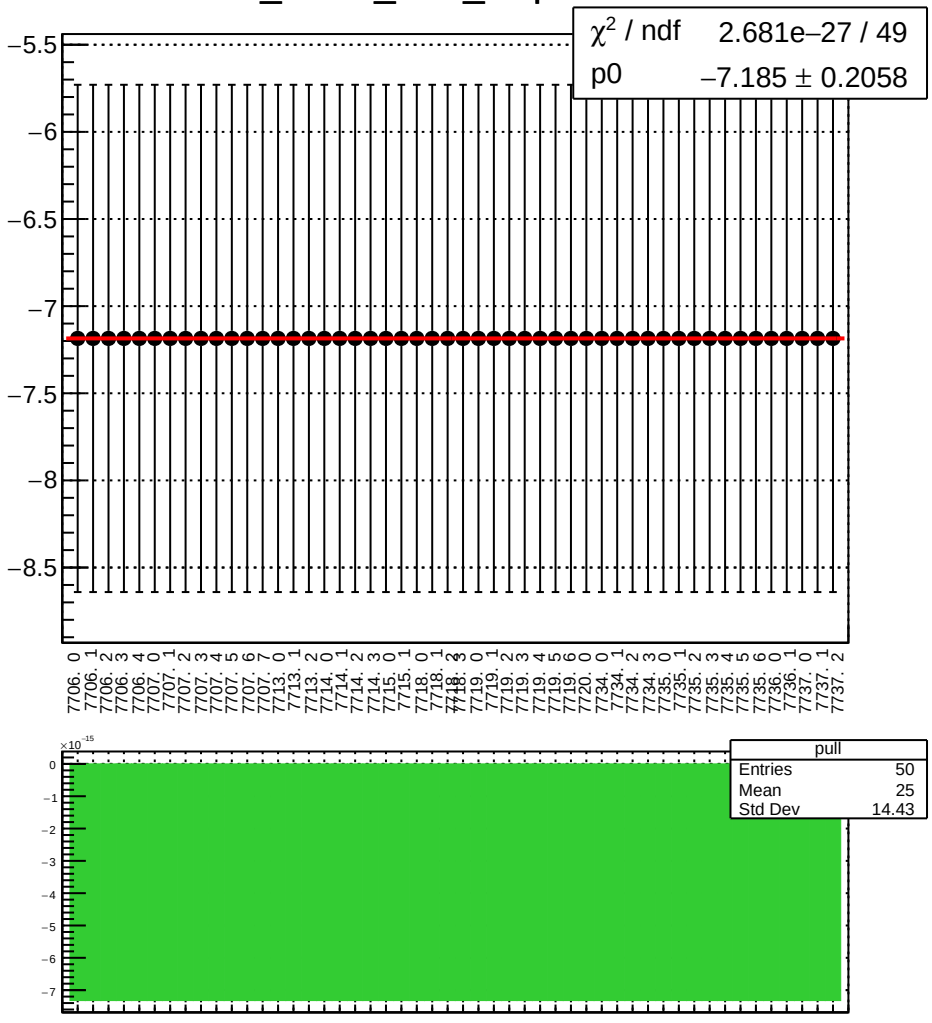
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0
−0.5
−1
−1.5
−2
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −2.352e−15
Std Dev3.743e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_4aY_slope vs run
χ² / ndf 2.681e−27 / 49
p0 −7.185 ± 0.2058
−5.5
−6
−6.5
−7
−7.5
−8
−8.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
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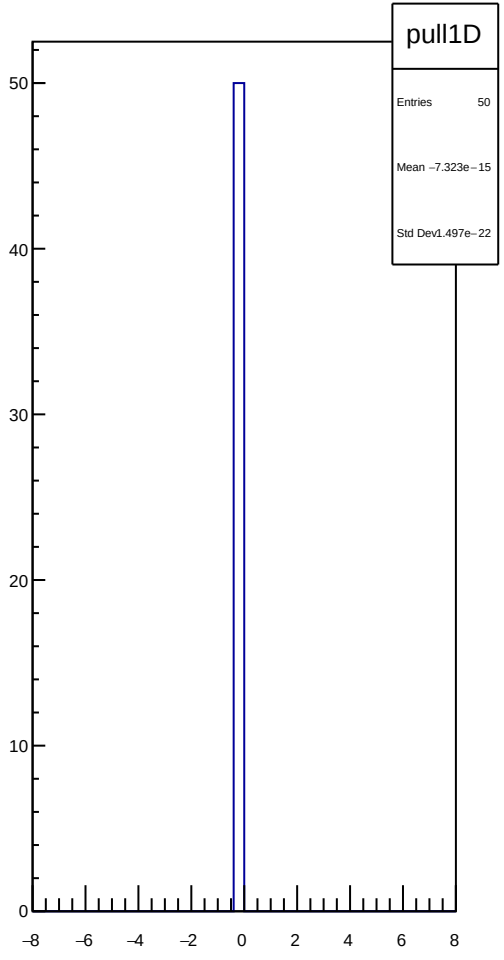
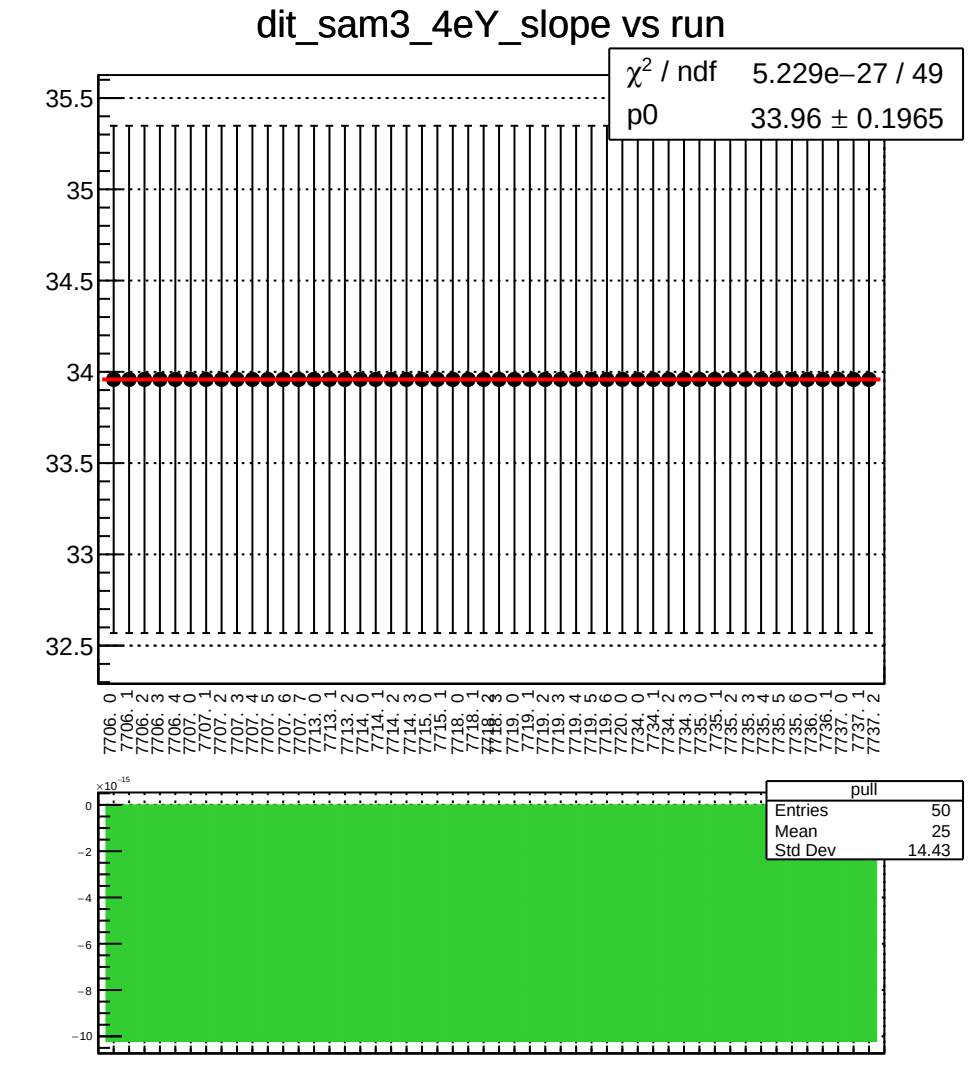
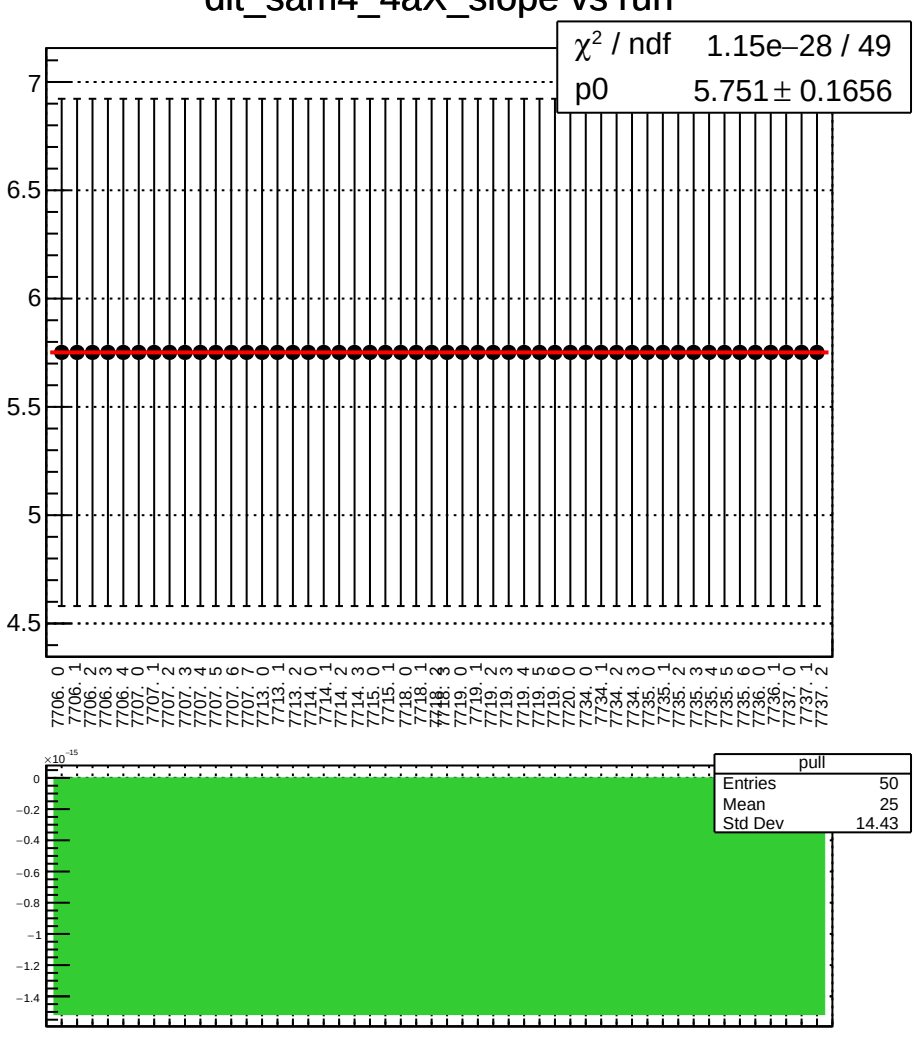
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0
−1
−2
−3
−4
−5
−6
−7
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean −7.323e−15
Std Dev1.497e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam3_4eY_slope vs run
χ² / ndf 5.229e−27 / 49
p0 33.96 ± 0.1965
35.5
35
34.5
34
33.5
33
32.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−2
−4
−6
−8
−10
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.023e−14
Std Dev2.118e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_4aX_slope vs run
χ² / ndf 1.15e−28 / 49
p0 5.751 ± 0.1656
7
6.5
6
5.5
5
4.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
7714. 0
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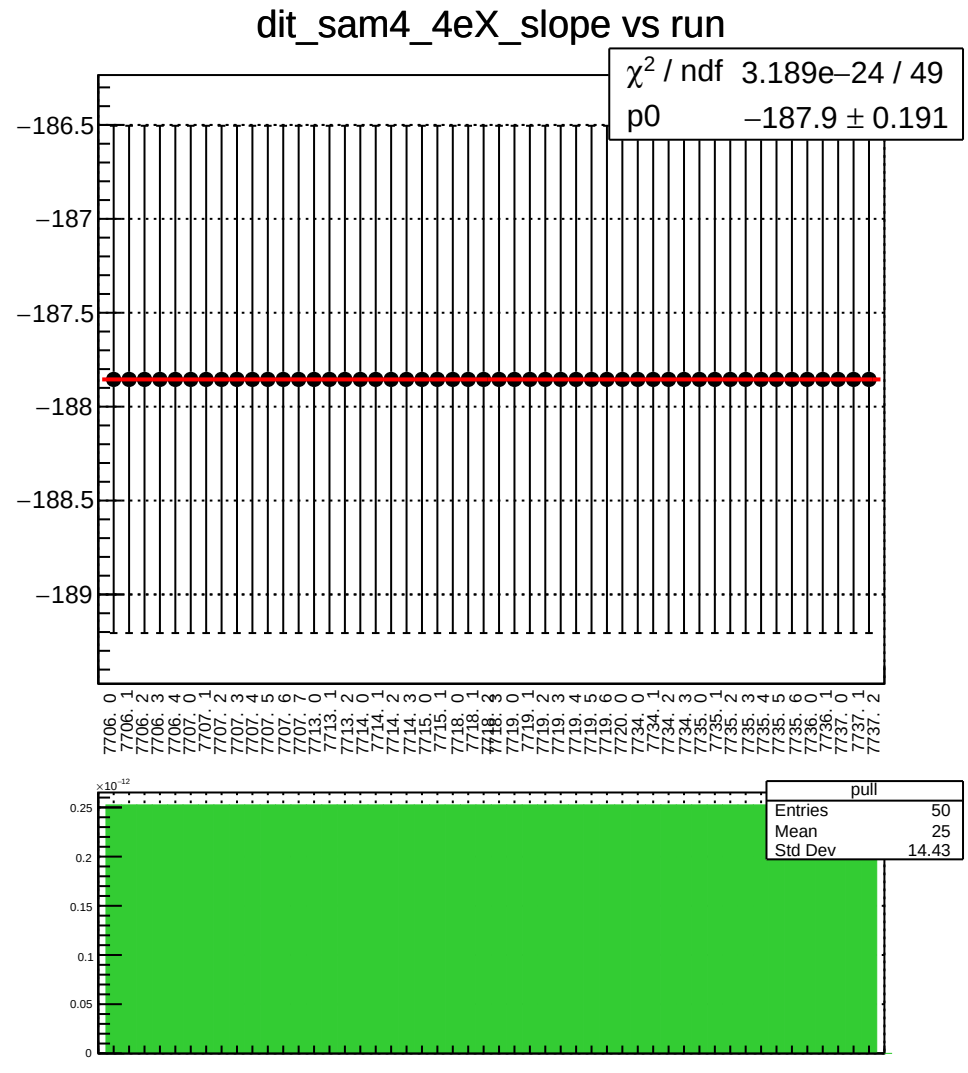
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.517e−15
Std Dev4.952e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_4eX_slope vs run
χ² / ndf 3.189e−24 / 49
p0 −187.9 ± 0.191
−186.5
−187
−187.5
−188
−188.5
−189
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7713. 2
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7714. 2
7714. 3
7715. 0
7715. 1
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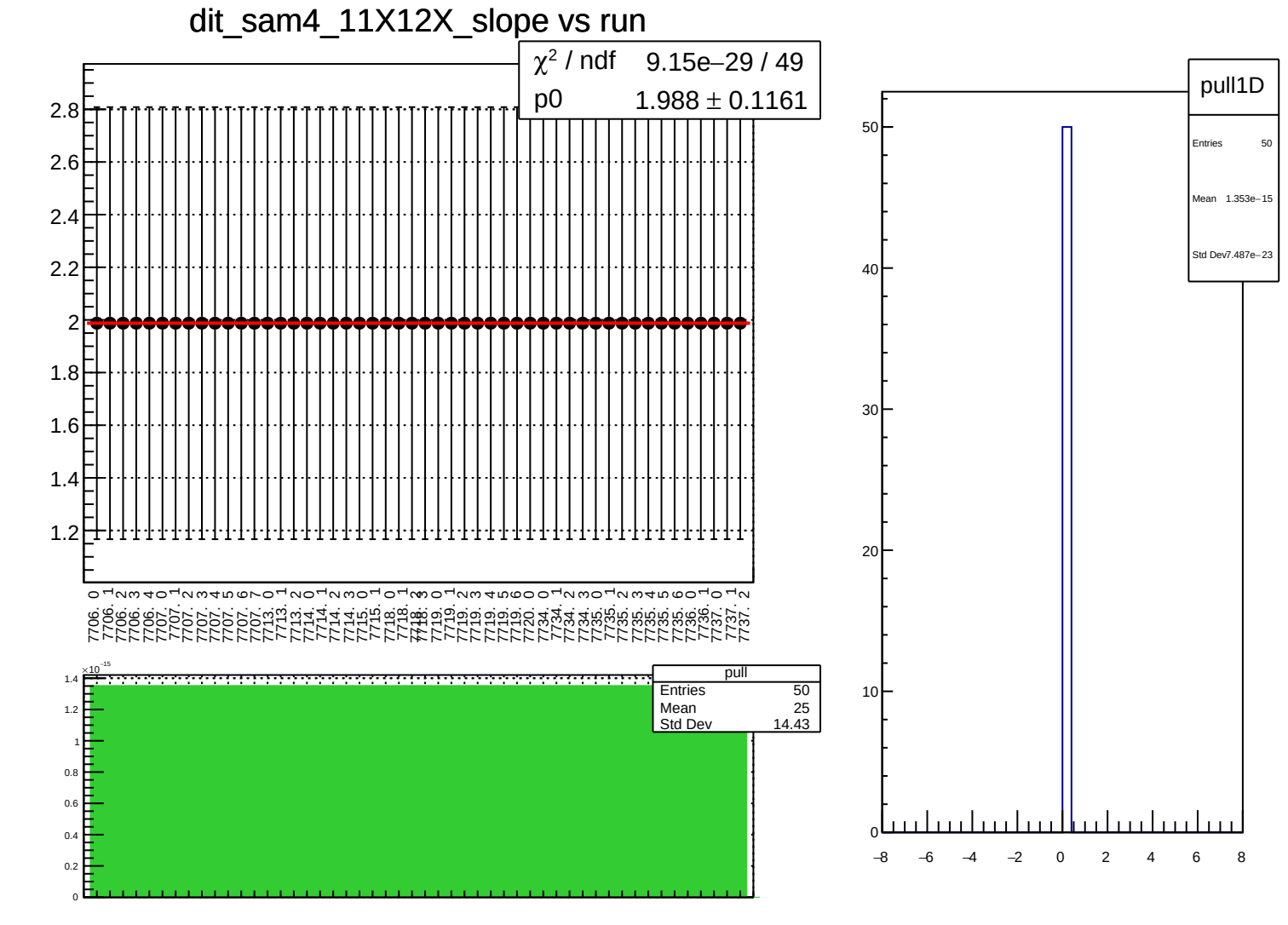
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 2.525e−13
Std Dev 8.299e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_11X12X_slope vs run
χ² / ndf 9.15e−29 / 49
p0 1.988 ± 0.1161
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
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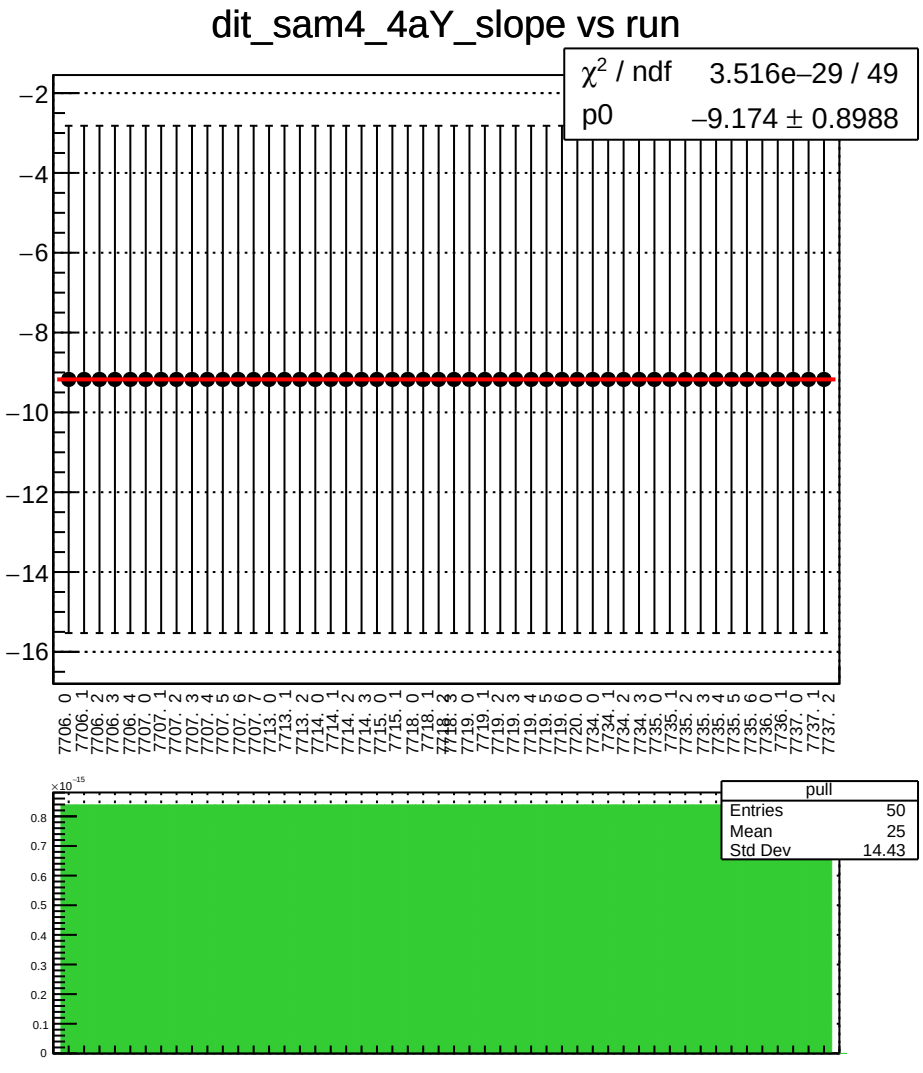
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.353e−15
Std Dev7.487e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_4aY_slope vs run
χ² / ndf 3.516e−29 / 49
p0 −9.174 ± 0.8988
−2
−4
−6
−8
−10
−12
−14
−16
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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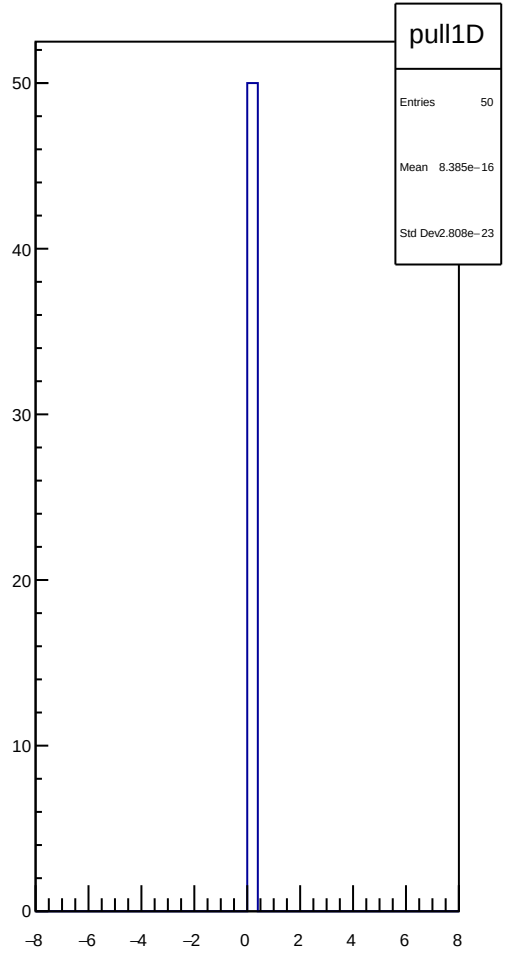
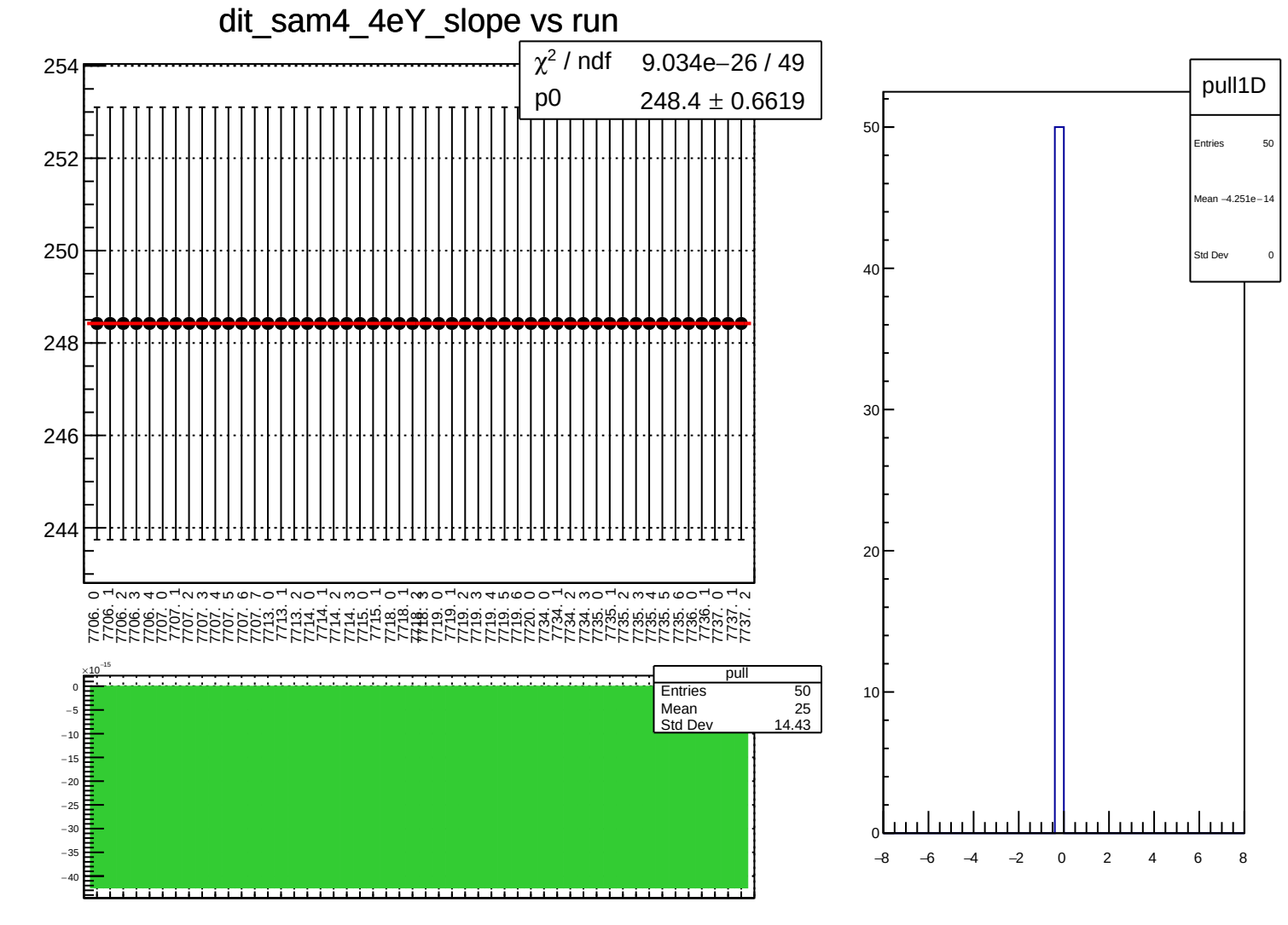
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 8.385e−16
Std Dev 2.808e−23
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam4_4eY_slope vs run
χ^2 / ndf 9.034e−26 / 49
p0 248.4 ± 0.6619
254
252
250
248
246
244
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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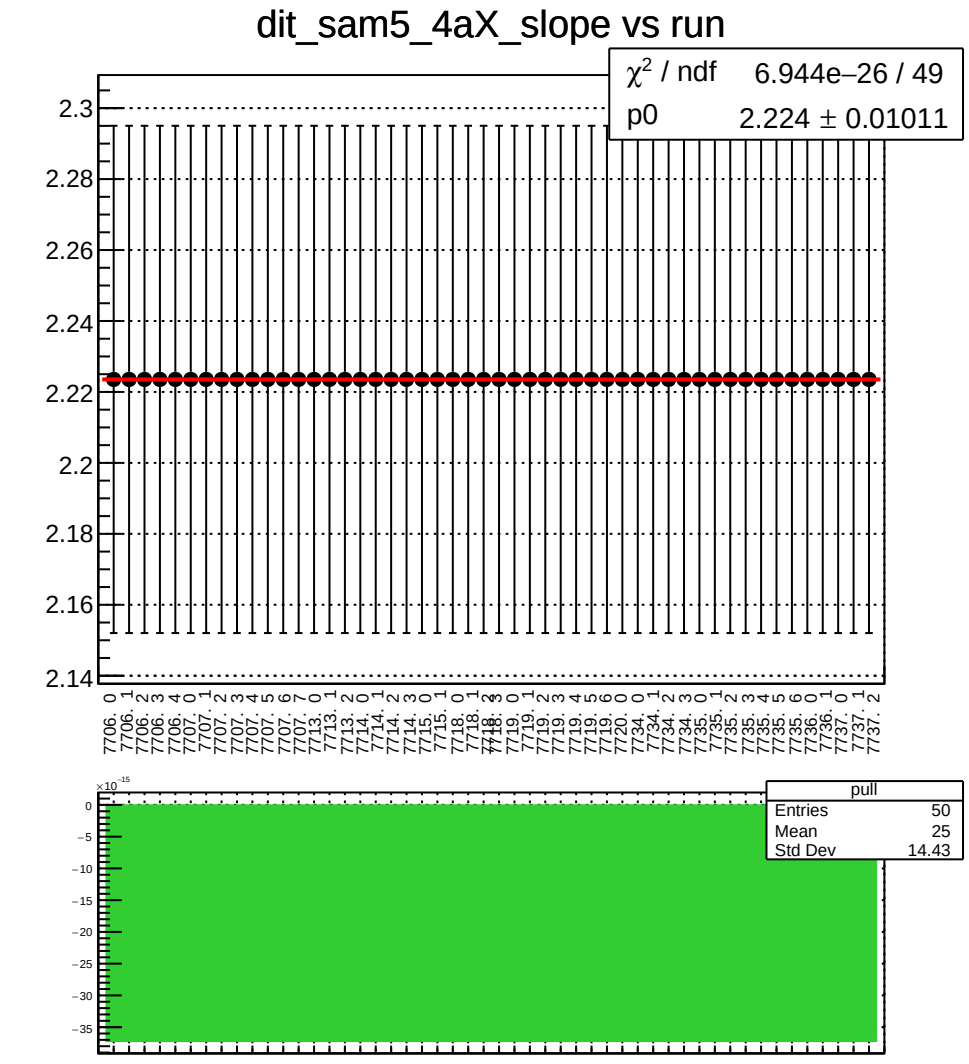
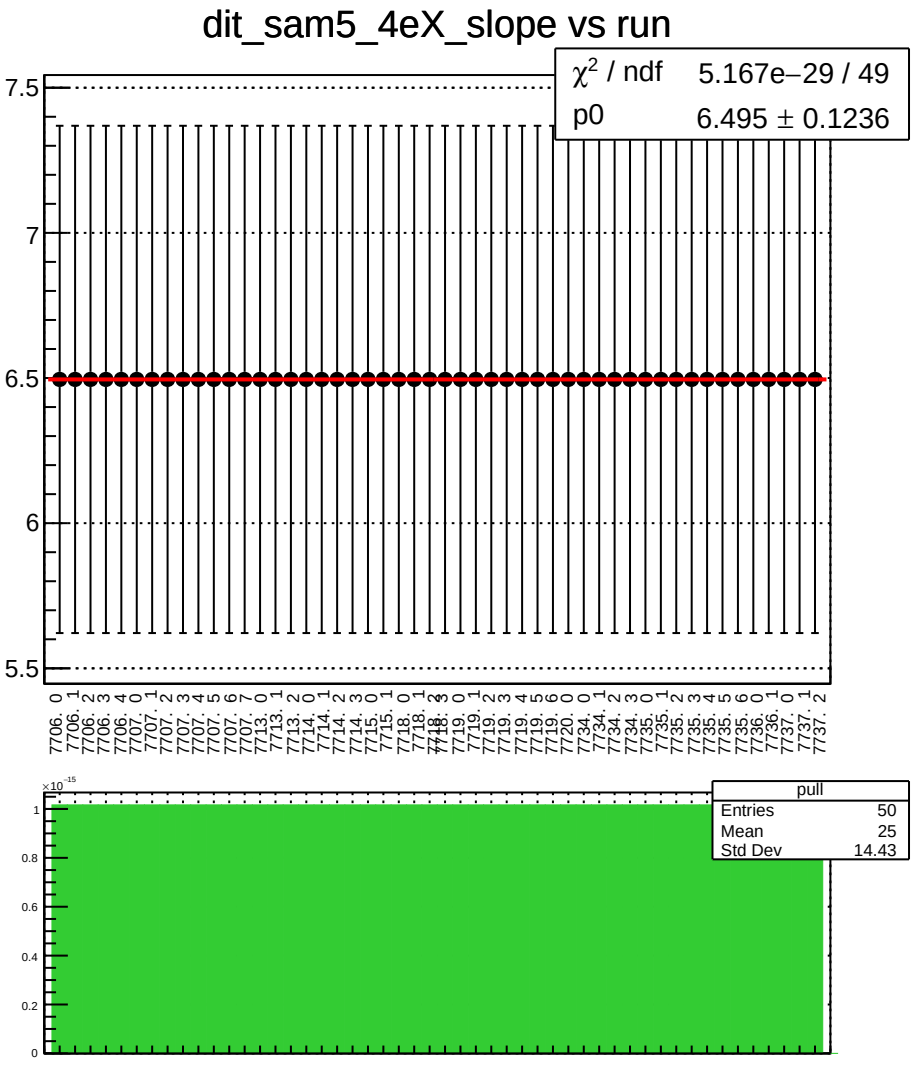
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10 -15
0
−5
−10
−15
−20
−25
−30
−35
−40
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −4.251e−14
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4aX_slope vs run
χ² / ndf 6.944e−26 / 49
p0 2.224 ± 0.01011
2.3
2.28
2.26
2.24
2.22
2.2
2.18
2.16
2.14
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−5
−10
−15
−20
−25
−30
−35
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −3.727e−14
Std Dev1.198e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4eX_slope vs run
χ² / ndf 5.167e−29 / 49
p0 6.495 ± 0.1236
7.5
7
6.5
6
5.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
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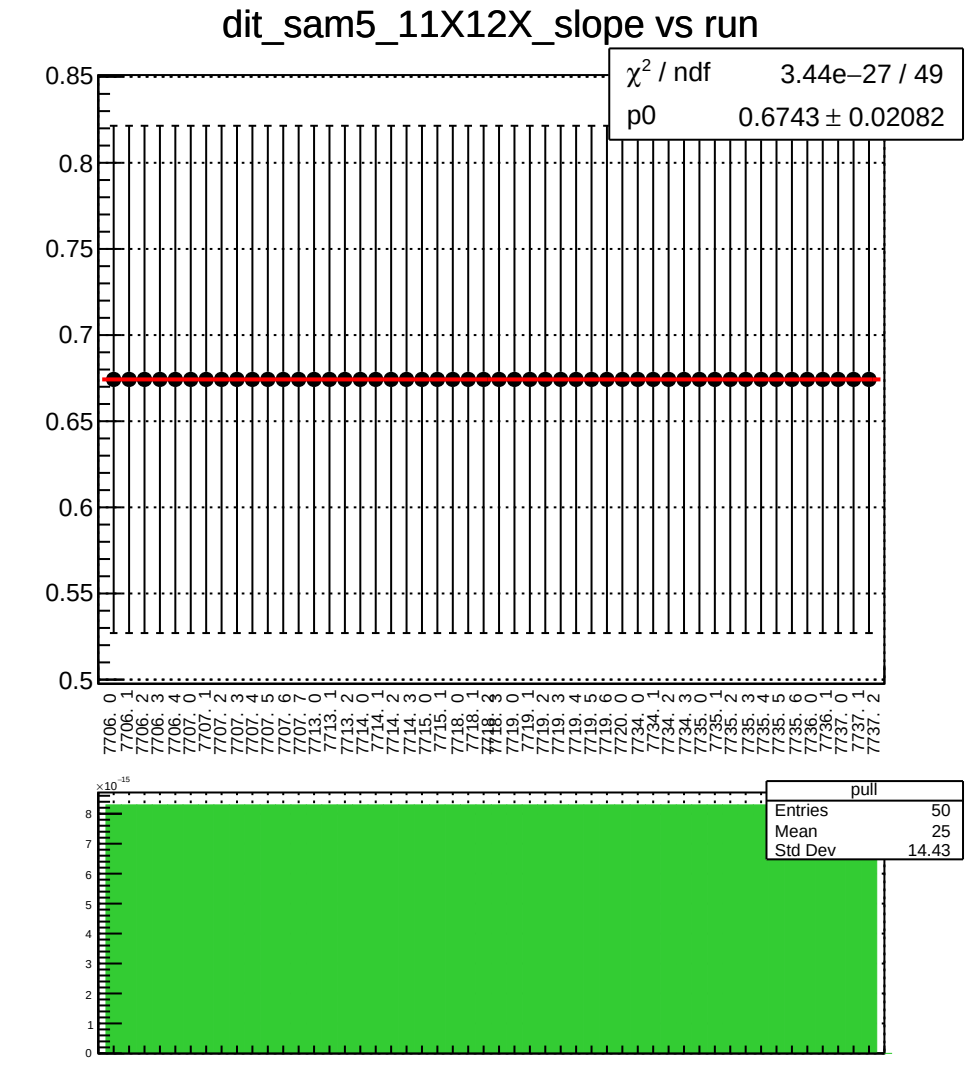
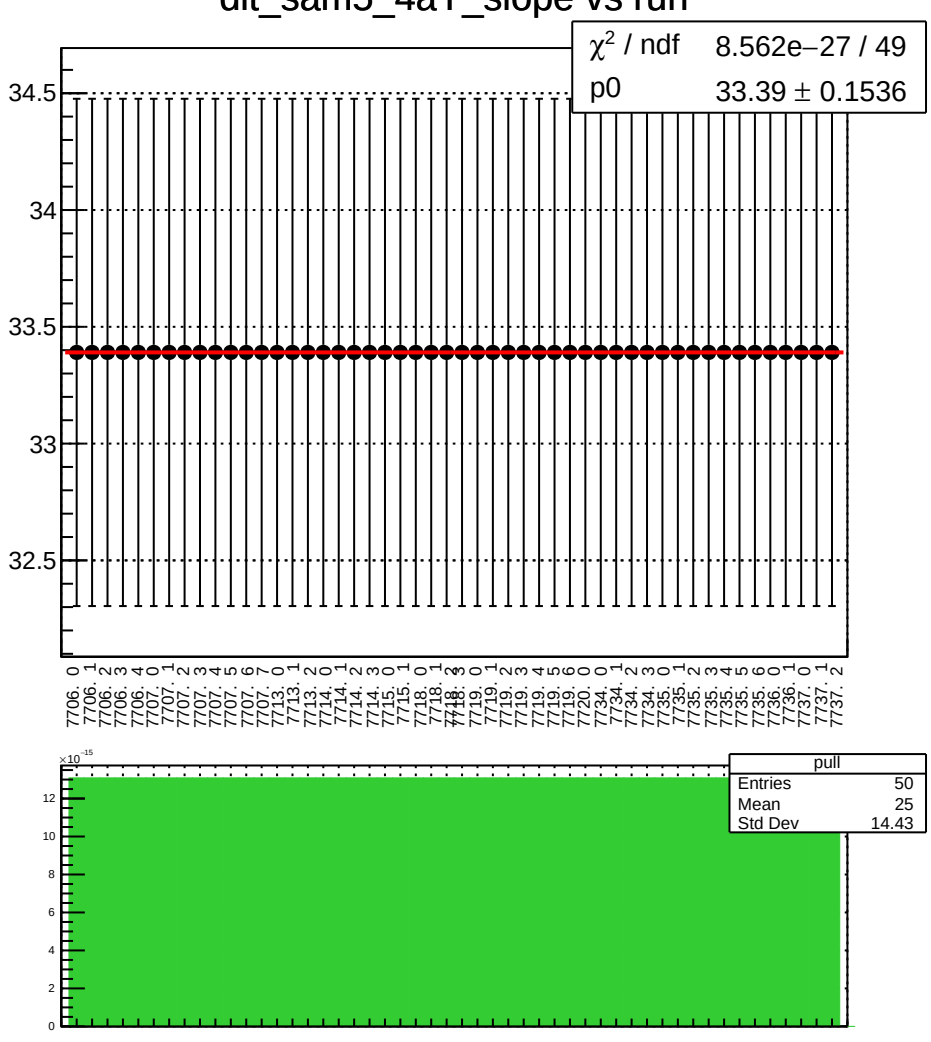
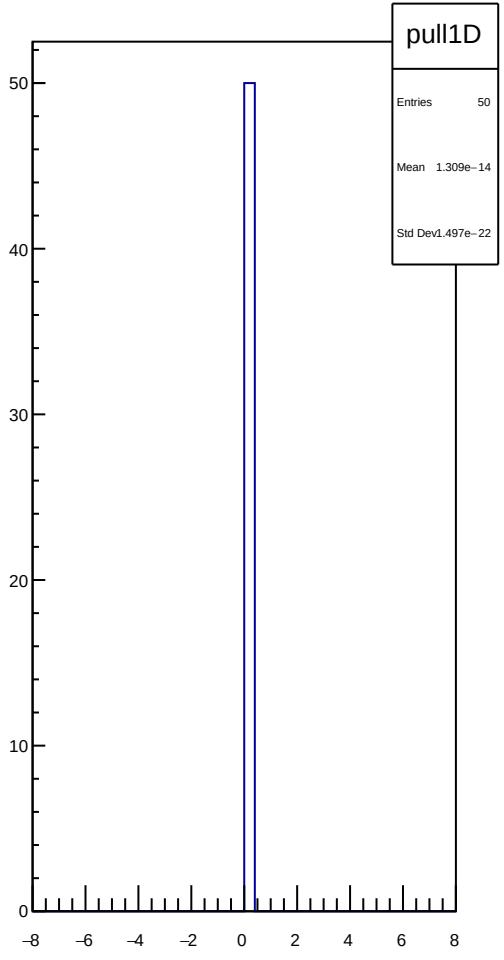
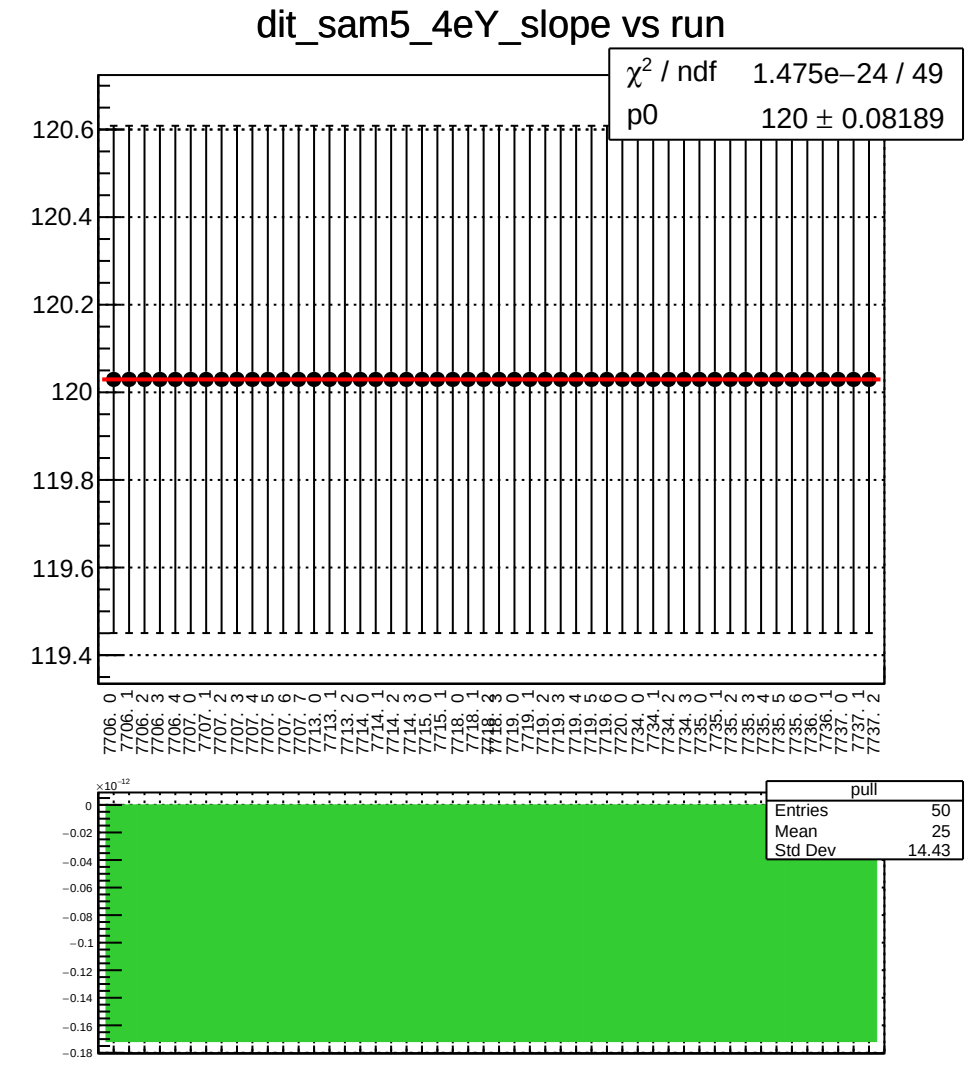
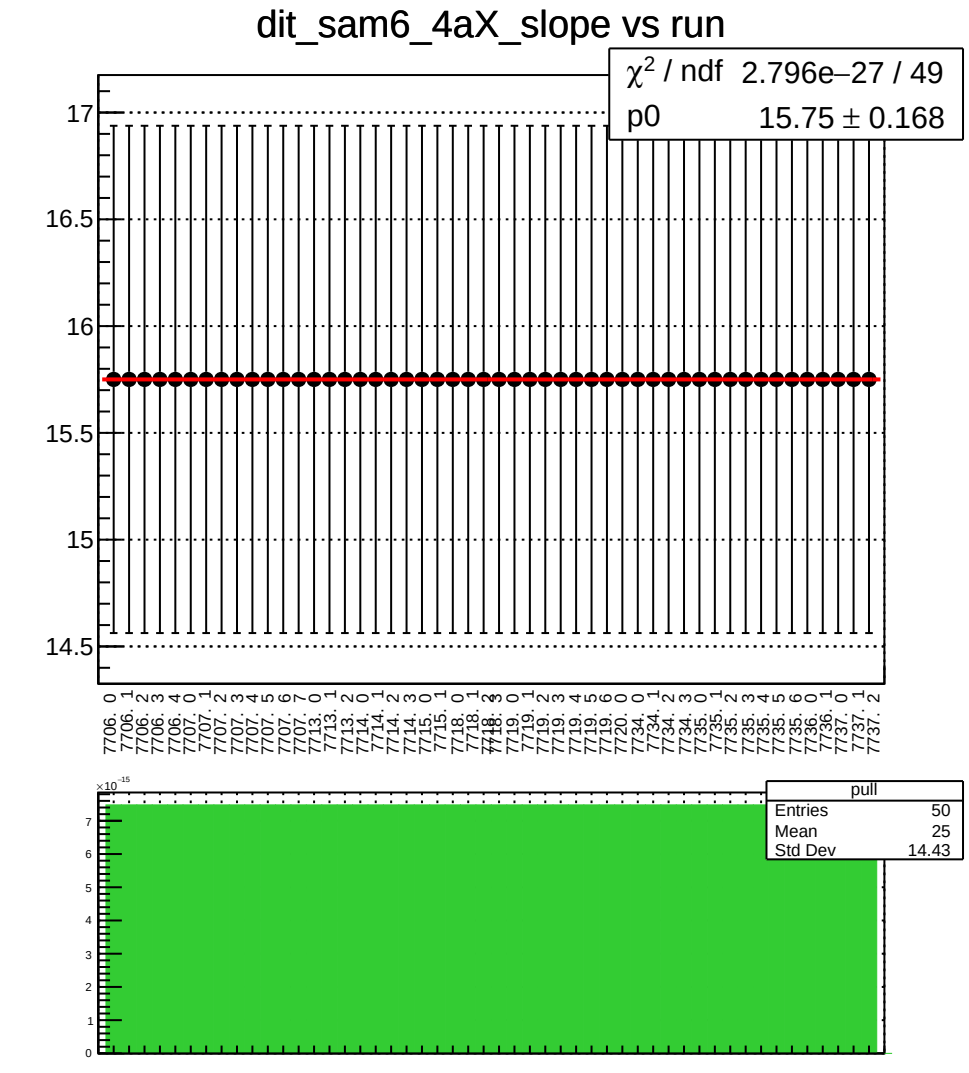
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.017e−15
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_11X12X_slope vs run
χ² / ndf 3.44e−27 / 49
p0 0.6743 ± 0.02082
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
8
7
6
5
4
3
2
1
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 8.295e−15
Std Dev3.512e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4aY_slope vs run
χ² / ndf 8.562e−27 / 49
p0 33.39 ± 0.1536
34.5
34
33.5
33
32.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
12
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 1.309e−14
Std Dev1.497e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam5_4eY_slope vs run
χ² / ndf 1.475e−24 / 49
p0 120 ± 0.08189
120.6
120.4
120.2
120
119.8
119.6
119.4
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.718e−13
Std Dev5.868e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4aX_slope vs run
χ² / ndf 2.796e−27 / 49
p0 15.75 ± 0.168
17
16.5
16
15.5
15
14.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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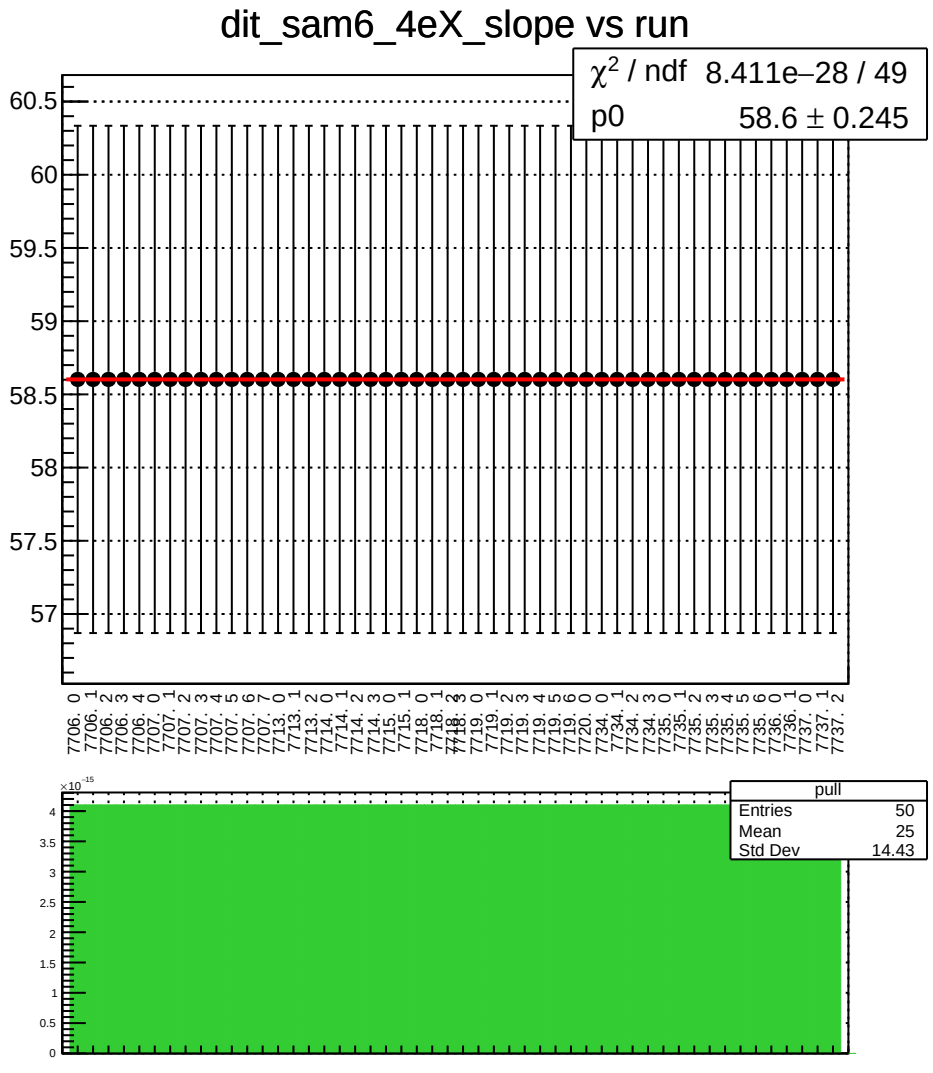
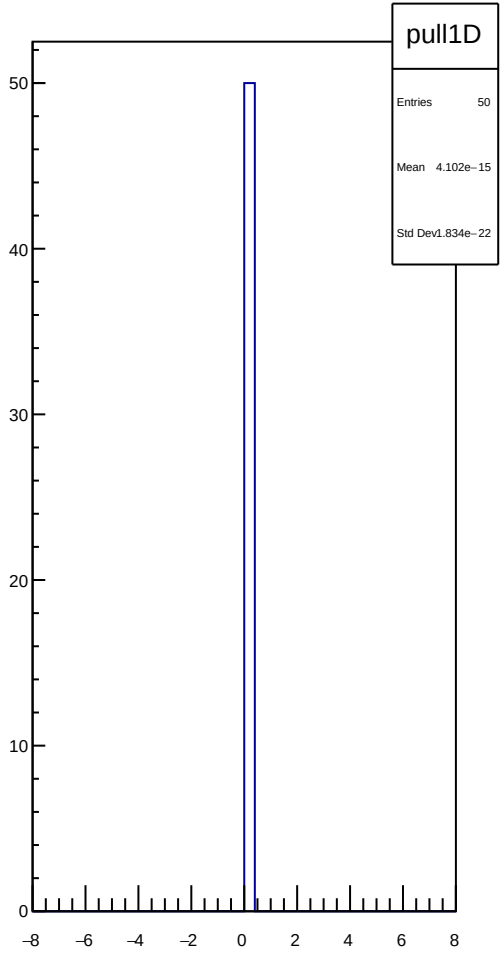
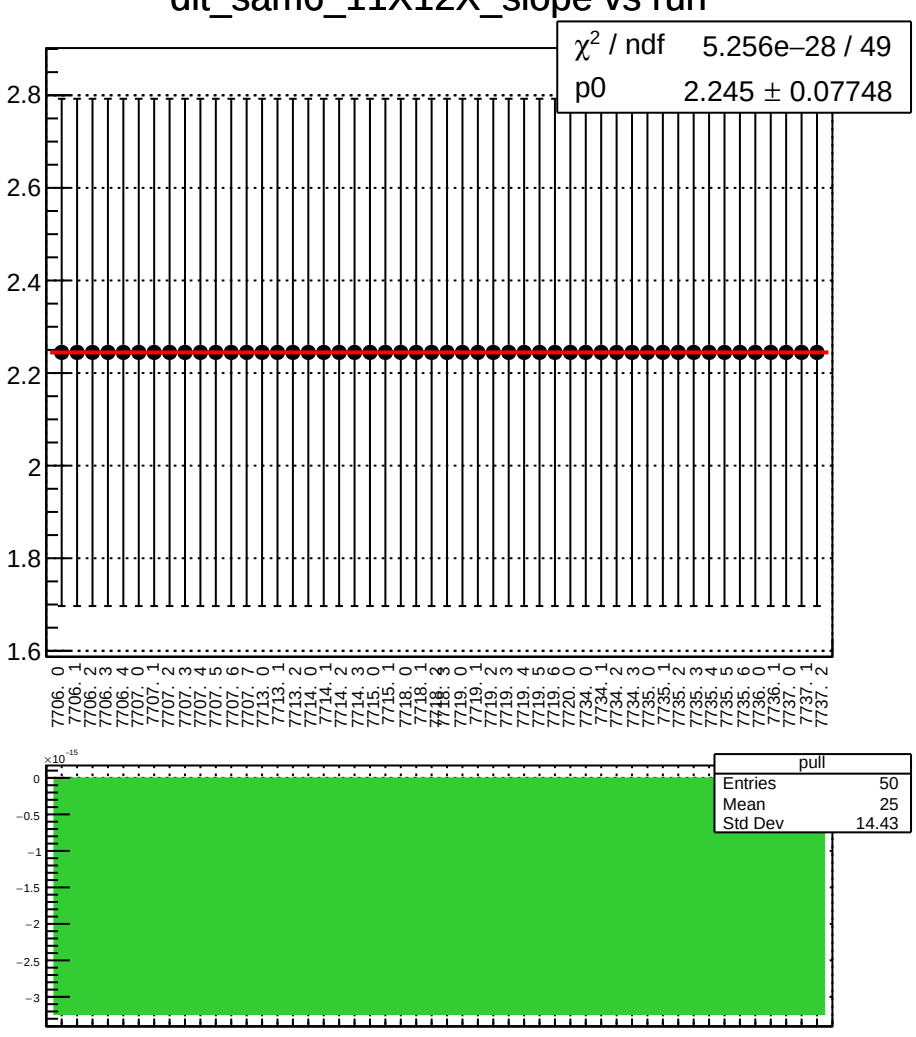
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
7
6
5
4
3
2
1
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 7.478e−15
Std Dev1.834e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4eX_slope vs run
χ² / ndf 8.411e−28 / 49
p0 58.6 ± 0.245
60.5
60
59.5
59
58.5
58
57.5
57
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻±⁵
4
3.5
3
2.5
2
1.5
1
0.5
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 4.102e−15
Std Dev1.834e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_11X12X_slope vs run
χ² / ndf 5.256e−28 / 49
p0 2.245 ± 0.07748
2.8
2.6
2.4
2.2
2
1.8
1.6
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
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7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
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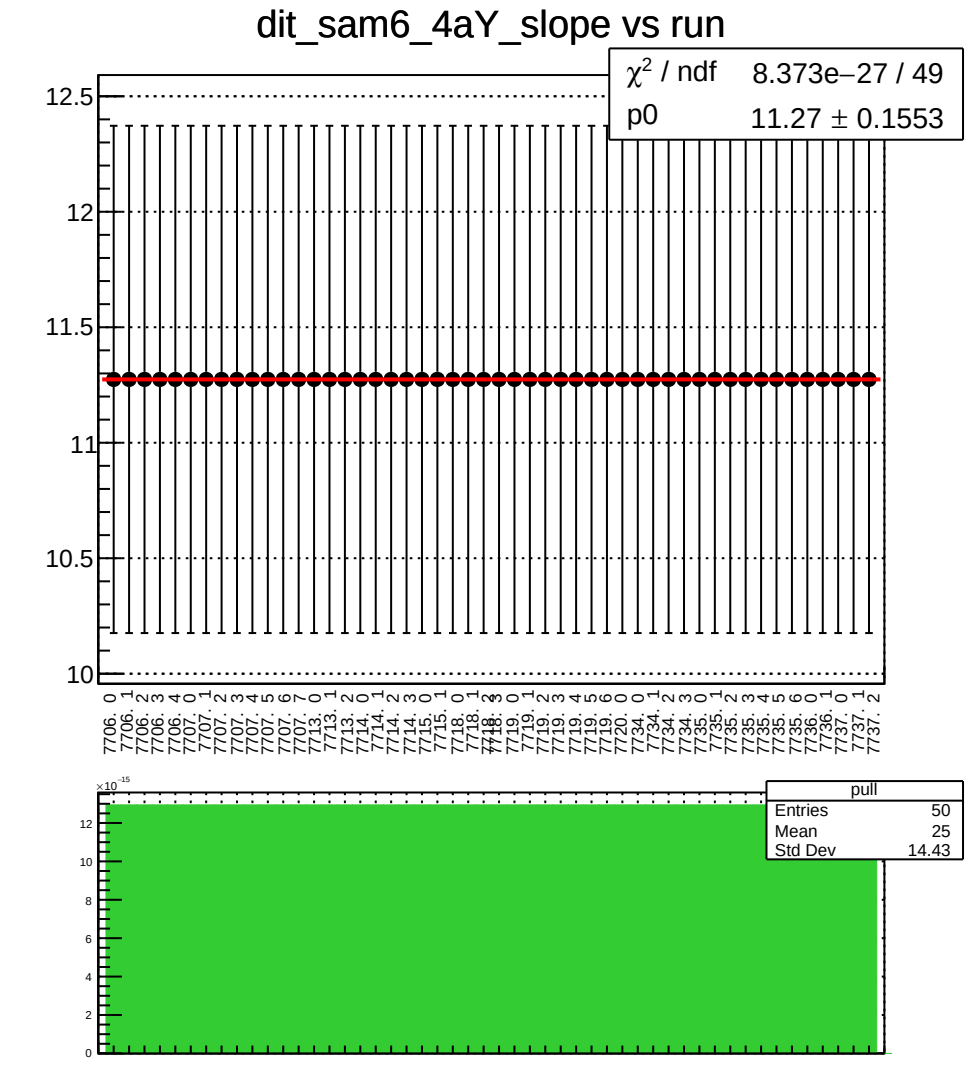
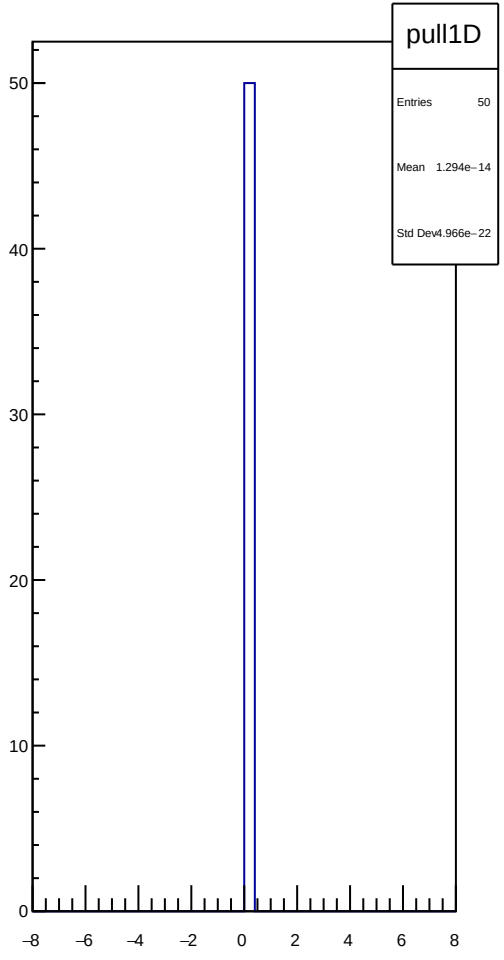
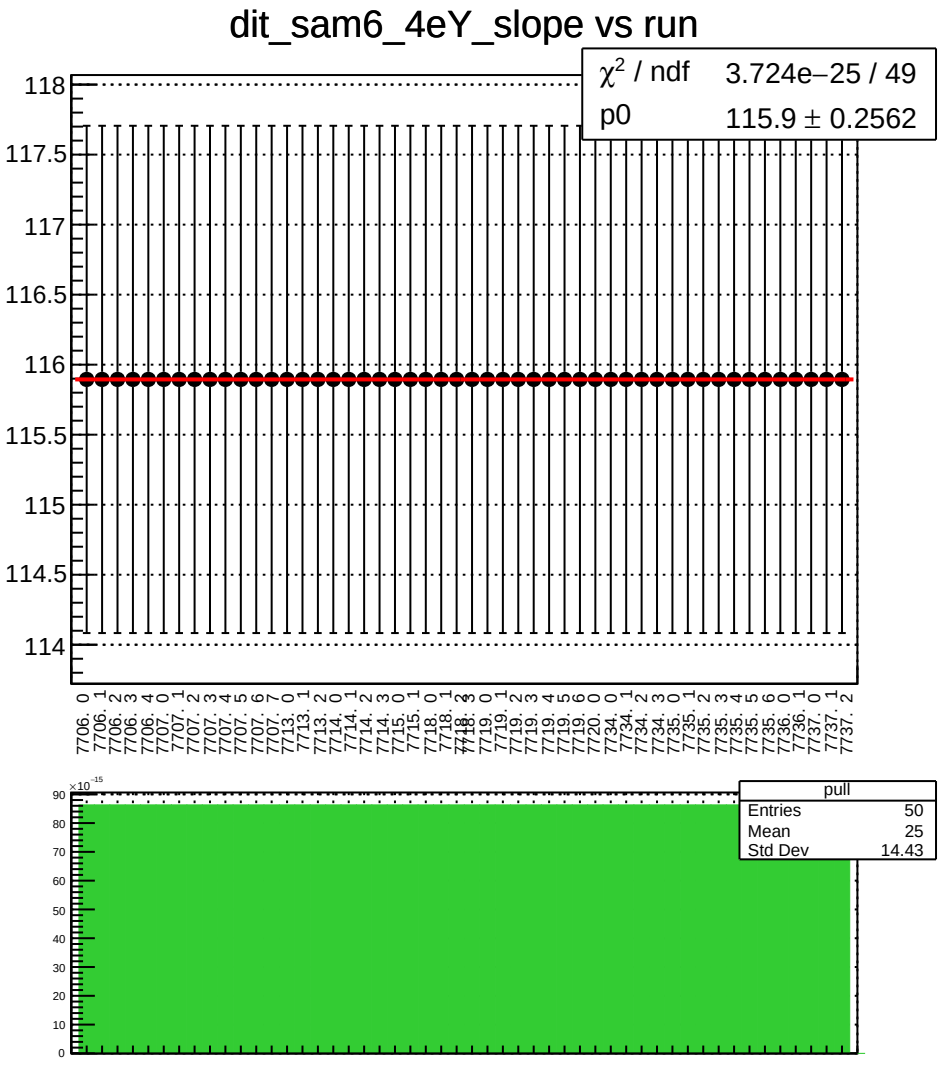
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
0
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −3.242e−15
Std Dev1.123e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4aY_slope vs run
χ² / ndf 8.373e−27 / 49
p0 11.27 ± 0.1553
12.5
12
11.5
11
10.5
10
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
12
10
8
6
4
2
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 1.294e−14
Std Dev4.966e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam6_4eY_slope vs run
χ² / ndf 3.724e−25 / 49
p0 115.9 ± 0.2562
118
117.5
117
116.5
116
115.5
115
114.5
114
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
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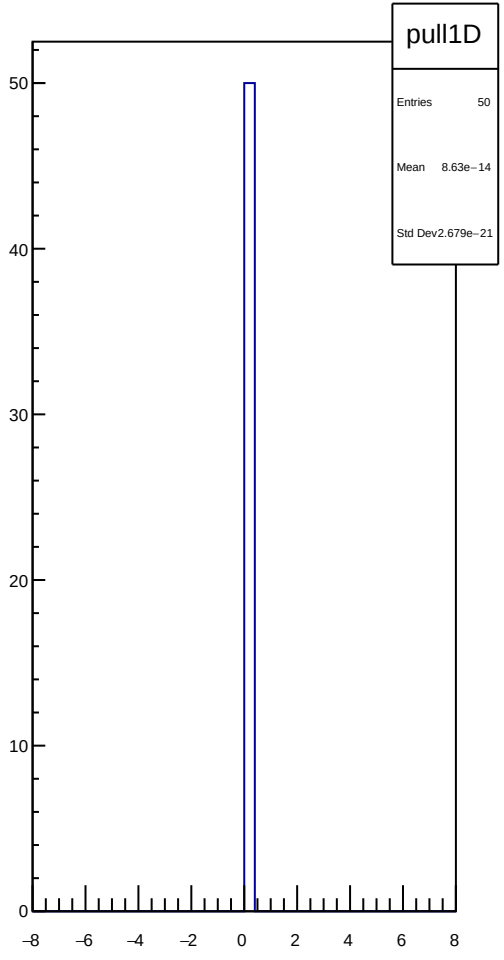
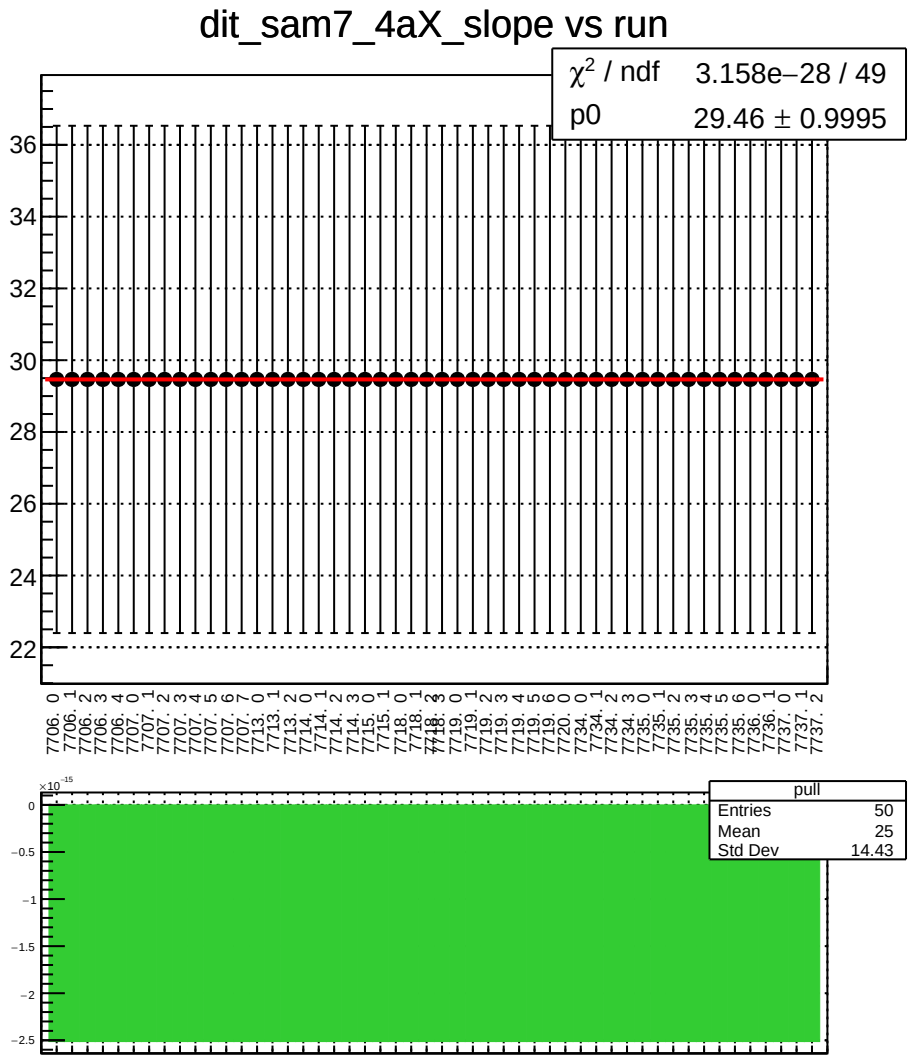
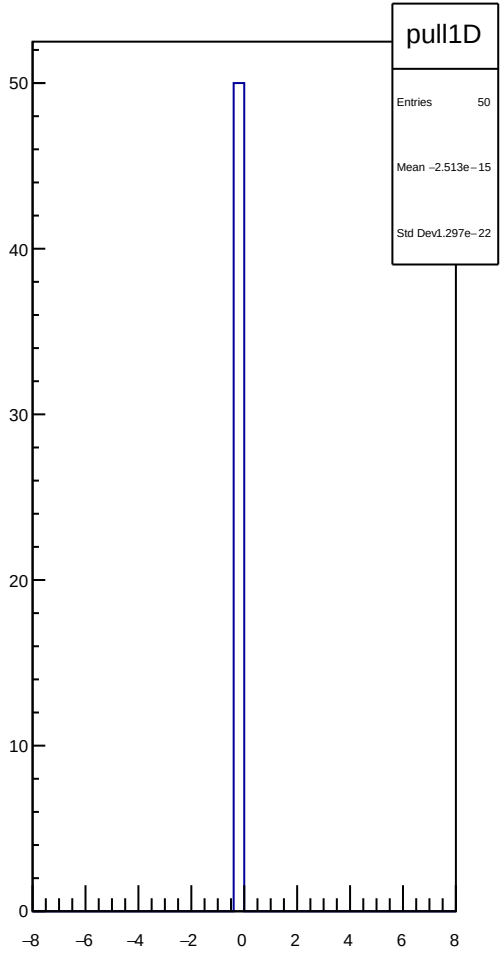
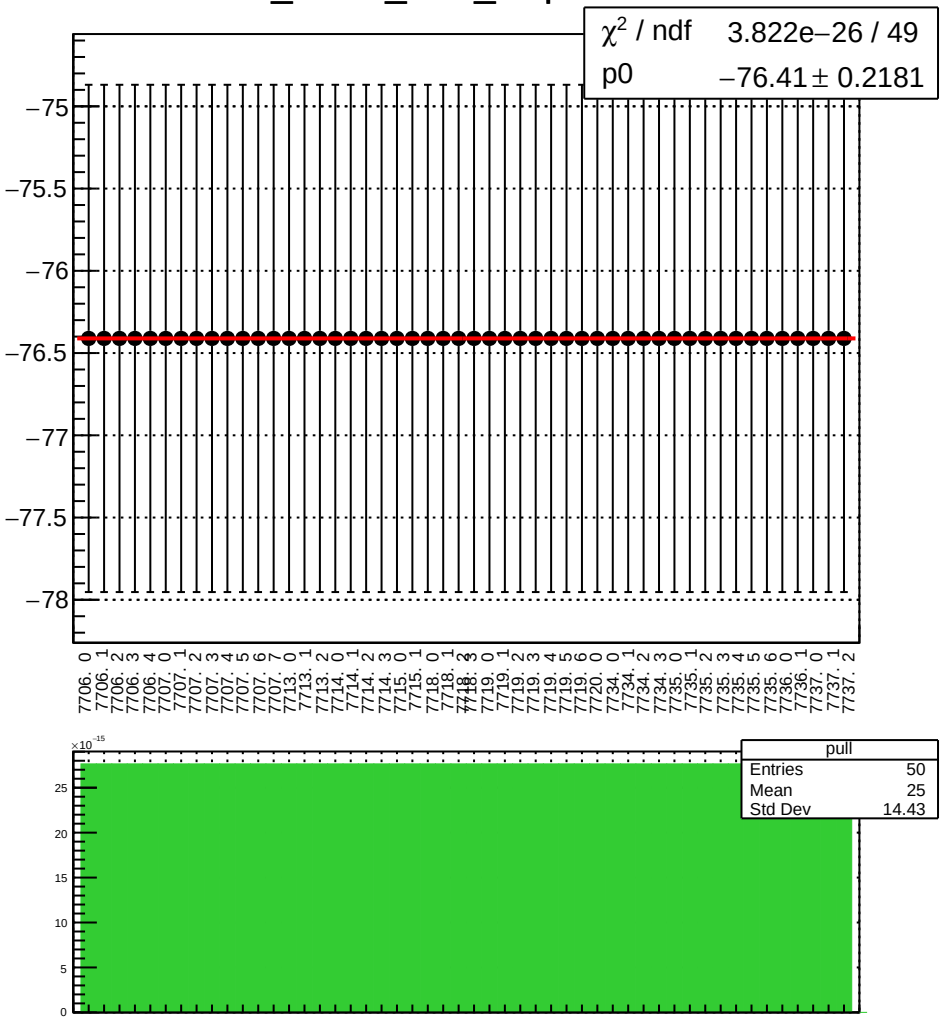
×10⁻±⁵
90
80
70
60
50
40
30
20
10
0
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 8.63e−14
Std Dev2.679e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aX_slope vs run
χ² / ndf 3.158e−28 / 49
p0 29.46 ± 0.9995
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean −2.513e−15
Std Dev1.297e−22


dit_sam7_4eX_slope vs run
χ² / ndf 3.822e−26 / 49
p0 −76.41 ± 0.2181
−75
−75.5
−76
−76.5
−77
−77.5
−78
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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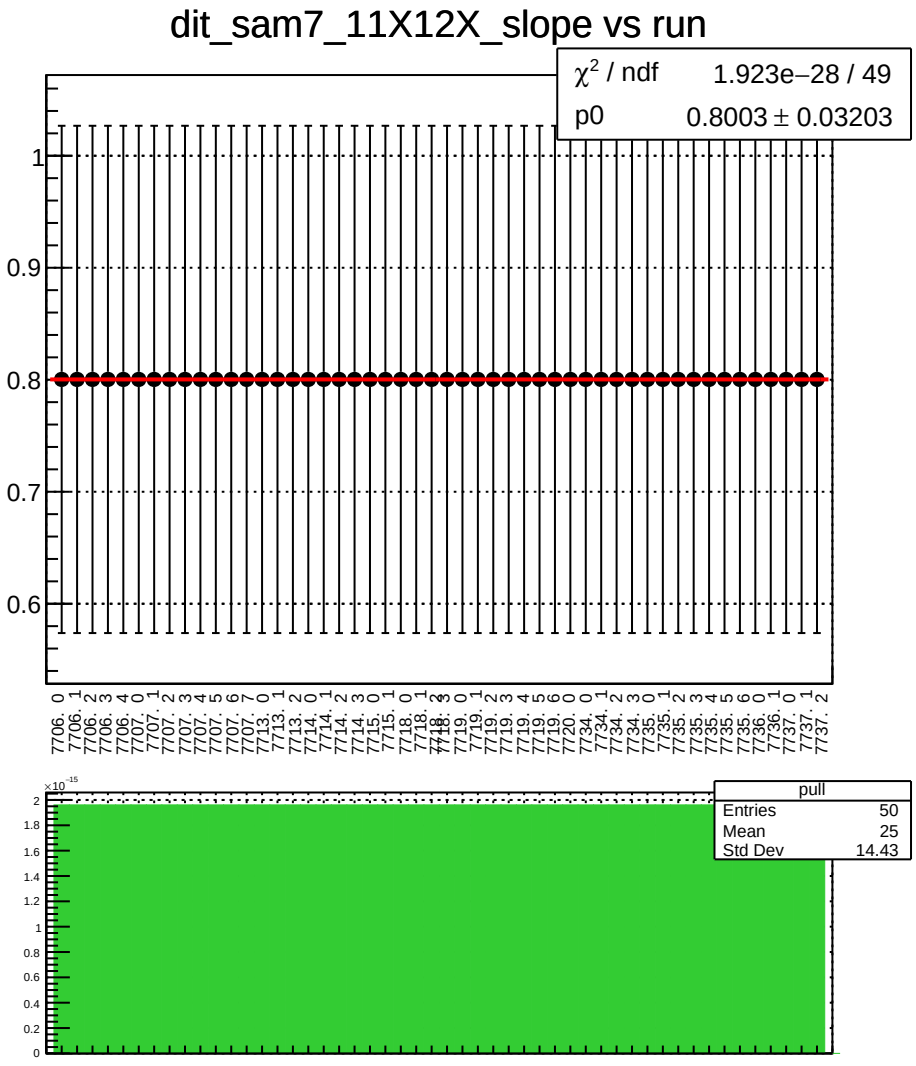
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�¹⁵
25
20
15
10
5
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 2.765e−14
Std Dev 5.989e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_11X12X_slope vs run
χ² / ndf 1.923e−28 / 49
p0 0.8003 ± 0.03203
1
0.9
0.8
0.7
0.6
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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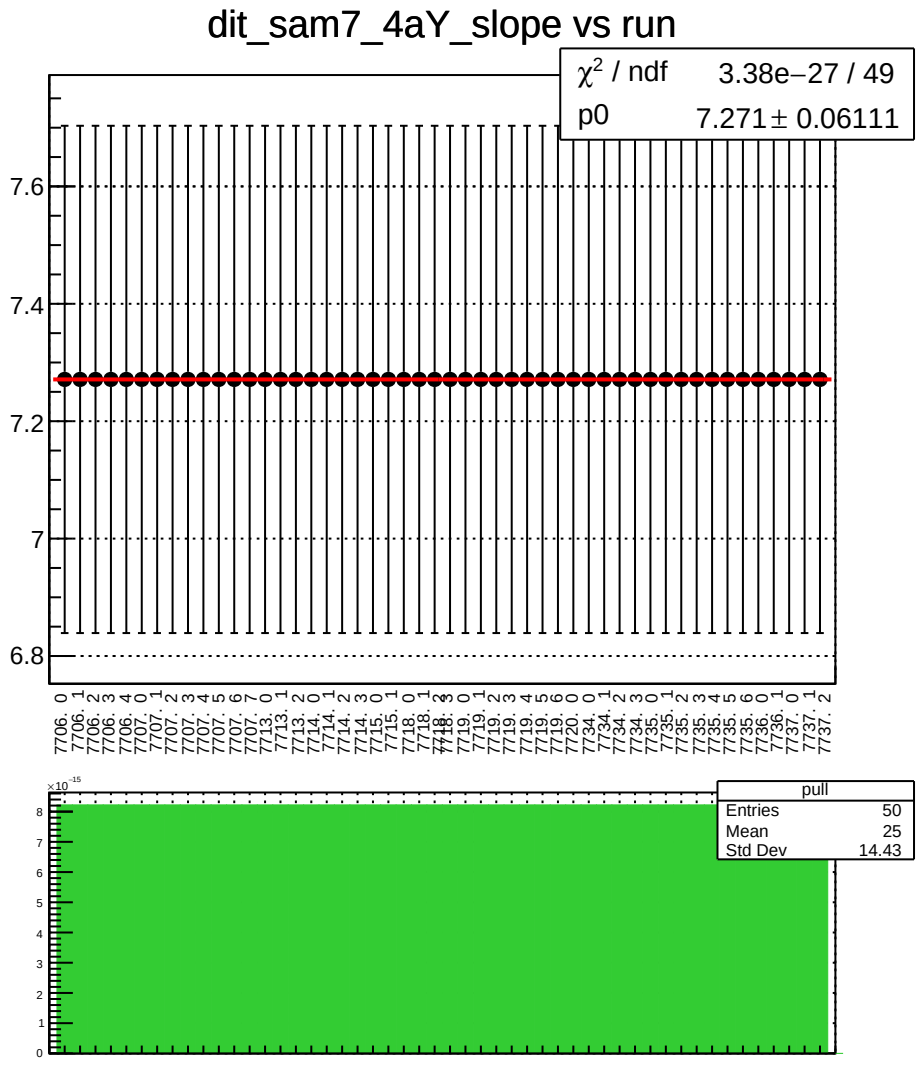
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 1.961e−15
Std Dev1.123e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4aY_slope vs run
χ² / ndf 3.38e−27 / 49
p0 7.271 ± 0.06111
7.6
7.4
7.2
7
6.8
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
7714. 1
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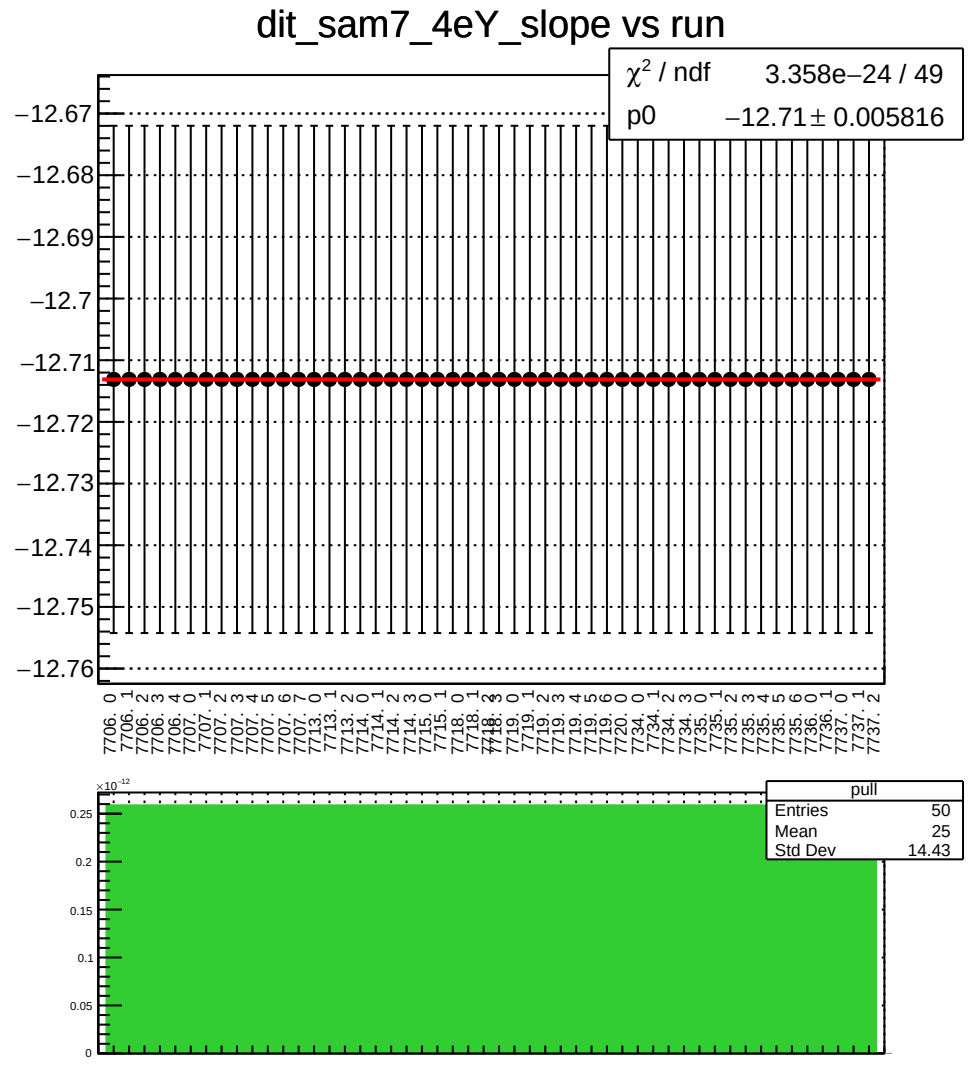
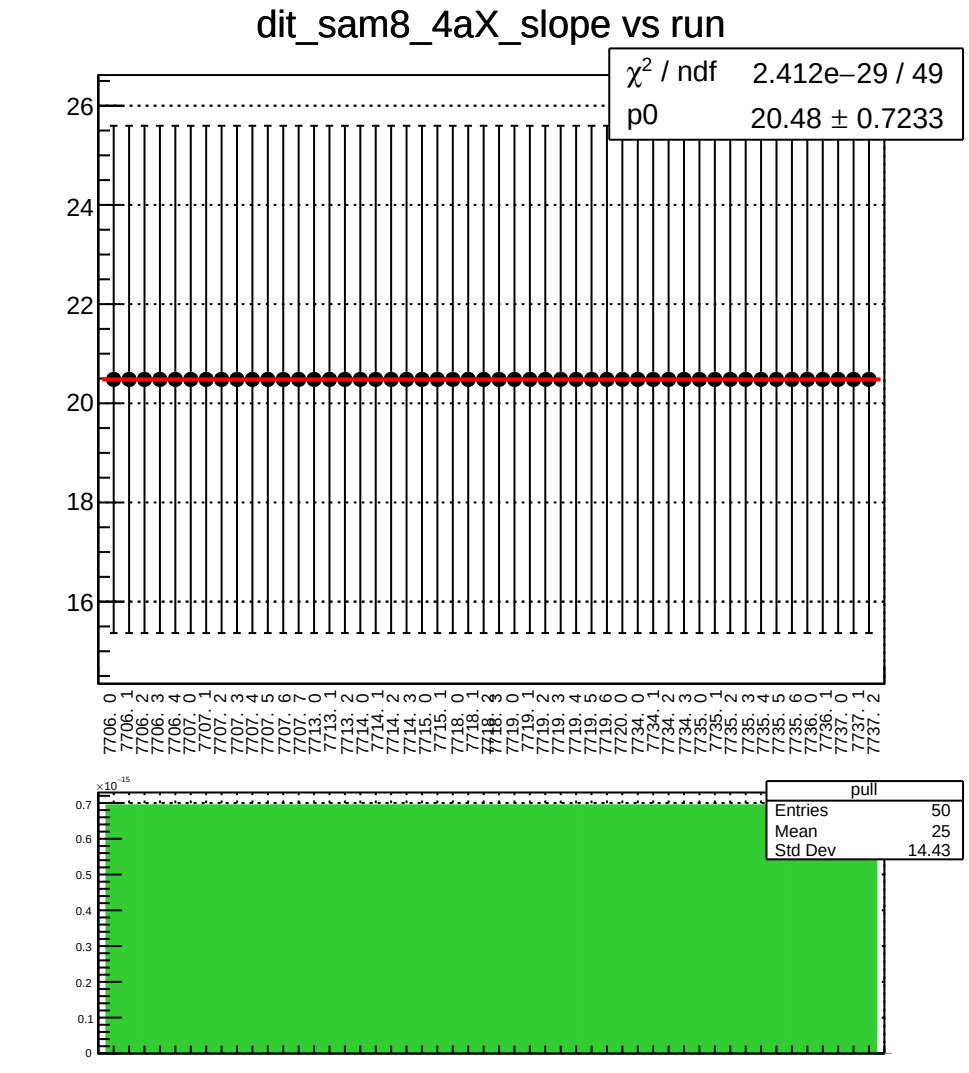
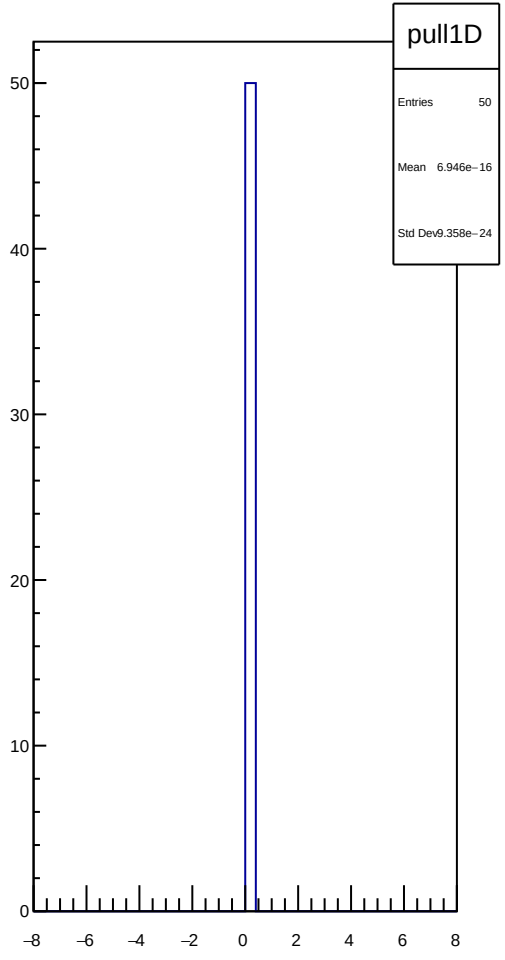
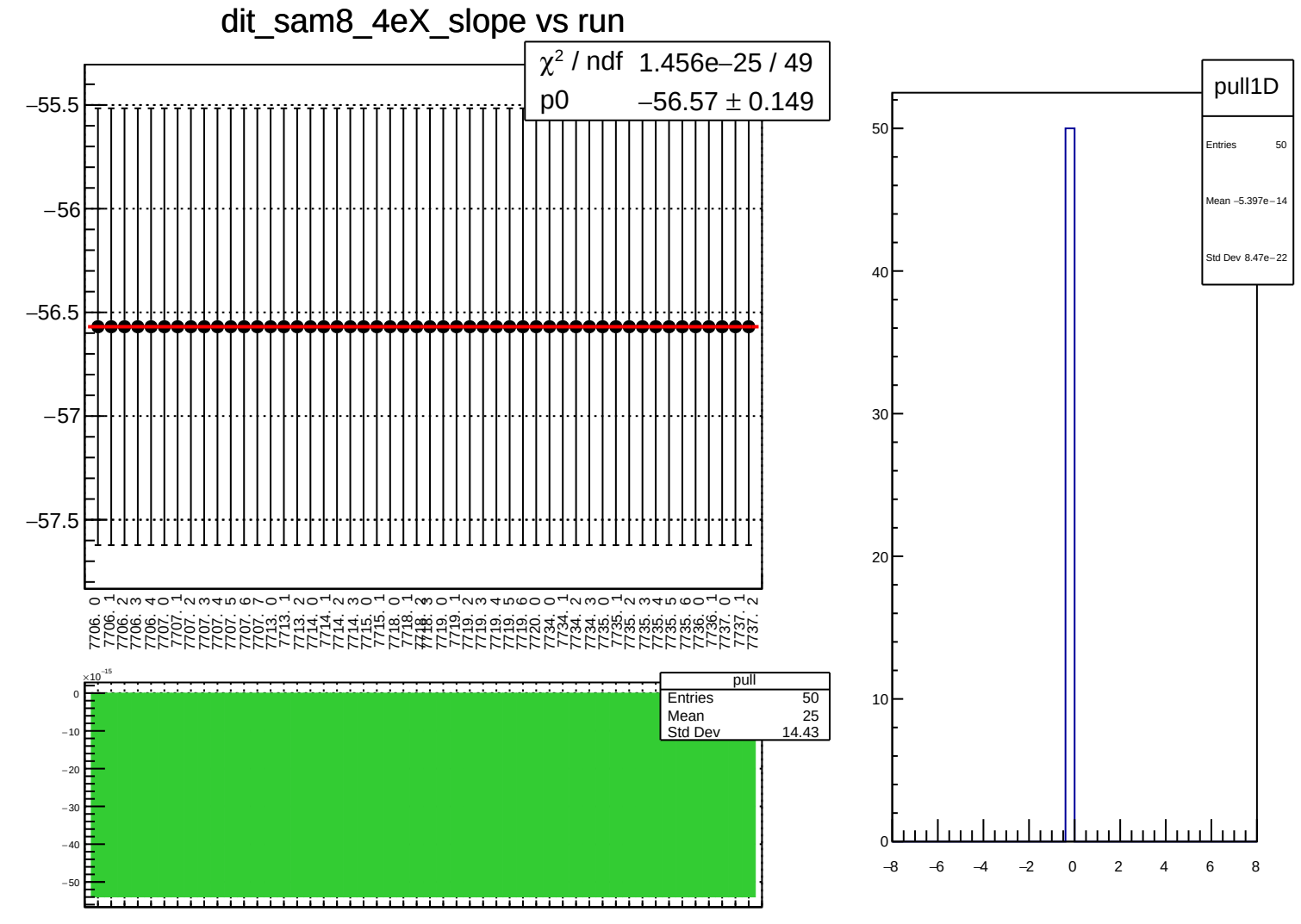
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
8
7
6
5
4
3
2
1
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 8.222e−15
Std Dev 2.995e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam7_4eY_slope vs run
χ² / ndf 3.358e−24 / 49
p0 −12.71 ± 0.005816
−12.67
−12.68
−12.69
−12.7
−12.71
−12.72
−12.73
−12.74
−12.75
−12.76
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0.25
0.2
0.15
0.1
0.05
0
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean 2.591e−13
Std Dev 1.071e−20
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aX_slope vs run
χ² / ndf 2.412e−29 / 49
p0 20.48 ± 0.7233
pull
Entries 50
Mean 25
Std Dev 14.43


pull1D
Entries 50
Mean 6.946e−16
Std Dev 9.358e−24


dit_sam8_4eX_slope vs run
χ² / ndf 1.456e−25 / 49
p0 −56.57 ± 0.149
−55.5
−56
−56.5
−57
−57.5
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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7713. 2
7714. 0
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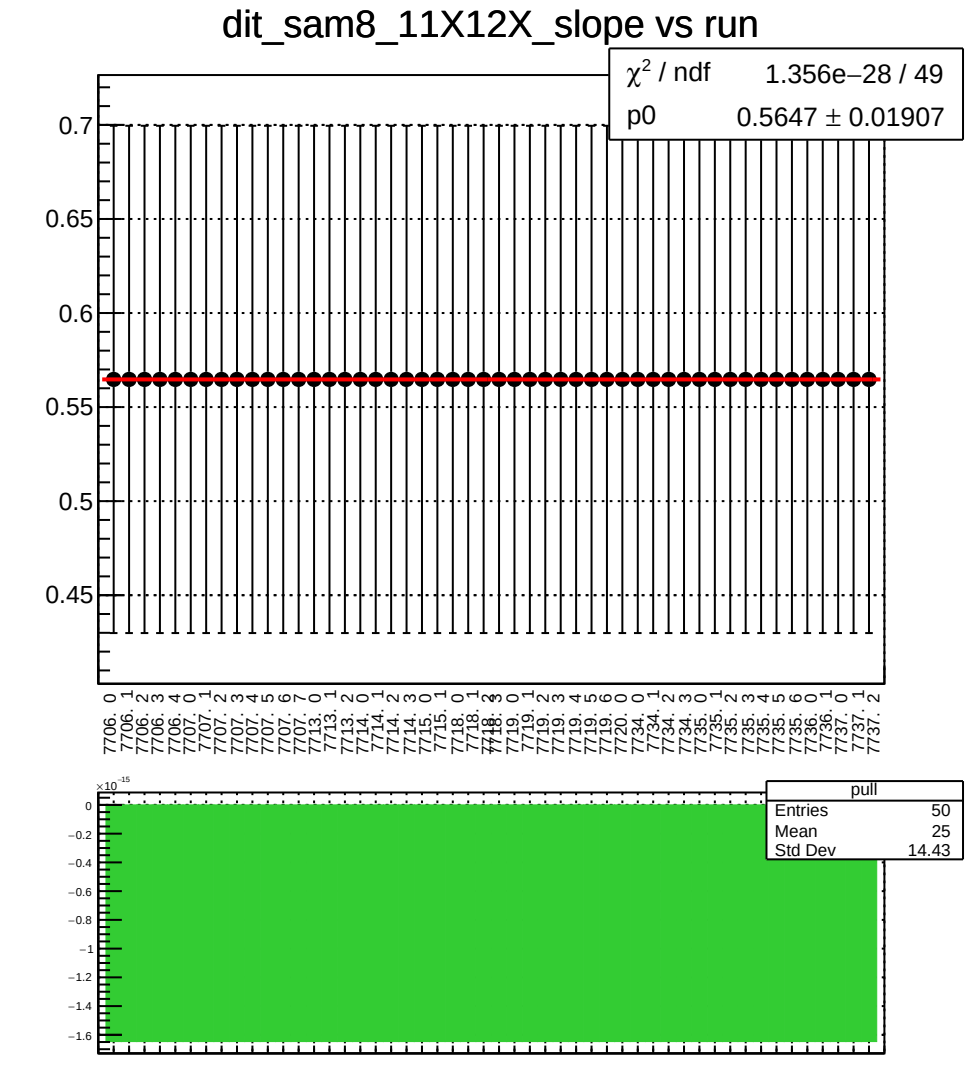
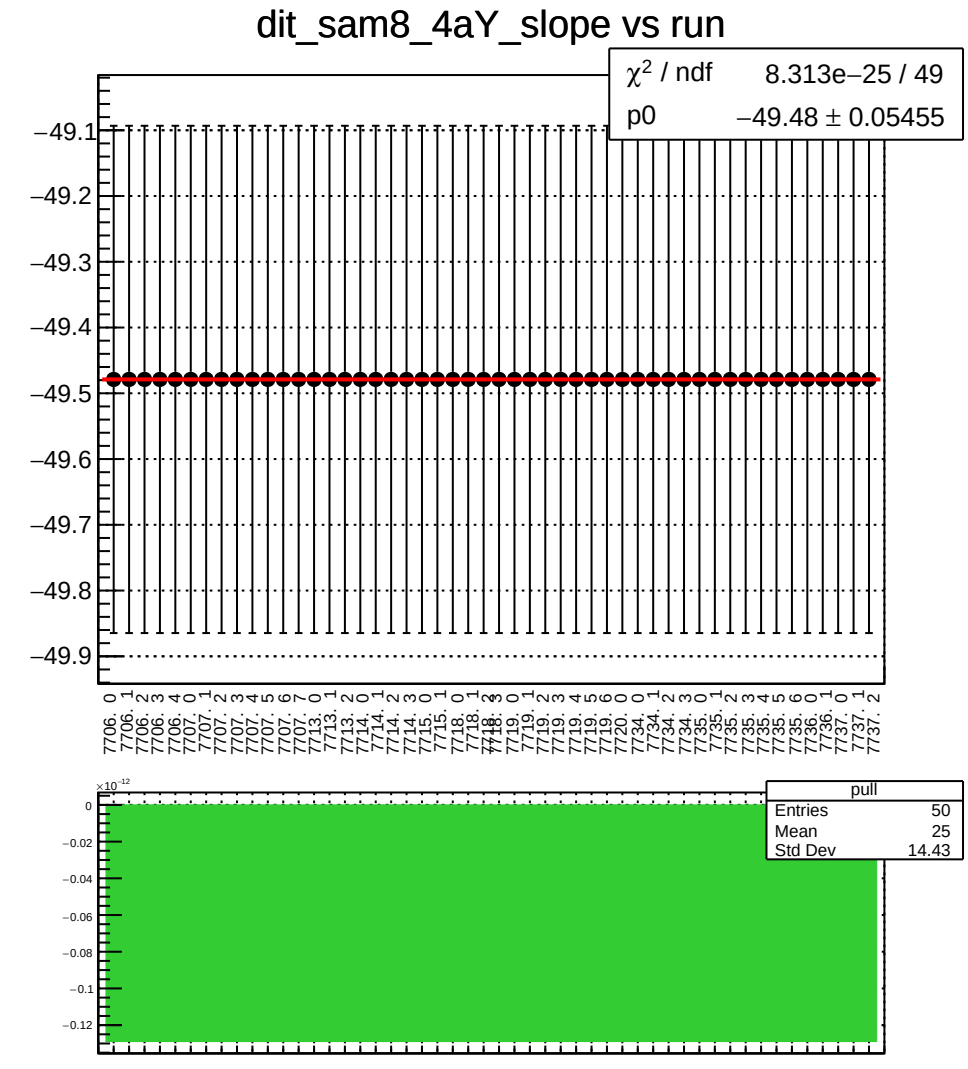
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹⁵
0
−10
−20
−30
−40
−50
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −5.397e−14
Std Dev 8.47e−22
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_11X12X_slope vs run
χ² / ndf 1.356e−28 / 49
p0 0.5647 ± 0.01907
0.7
0.65
0.6
0.55
0.5
0.45
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻�15
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.647e−15
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4aY_slope vs run
χ² / ndf 8.313e−25 / 49
p0 −49.48 ± 0.05455
−49.1
−49.2
−49.3
−49.4
−49.5
−49.6
−49.7
−49.8
−49.9
7706. 0
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7706. 2
7706. 3
7706. 4
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7707. 6
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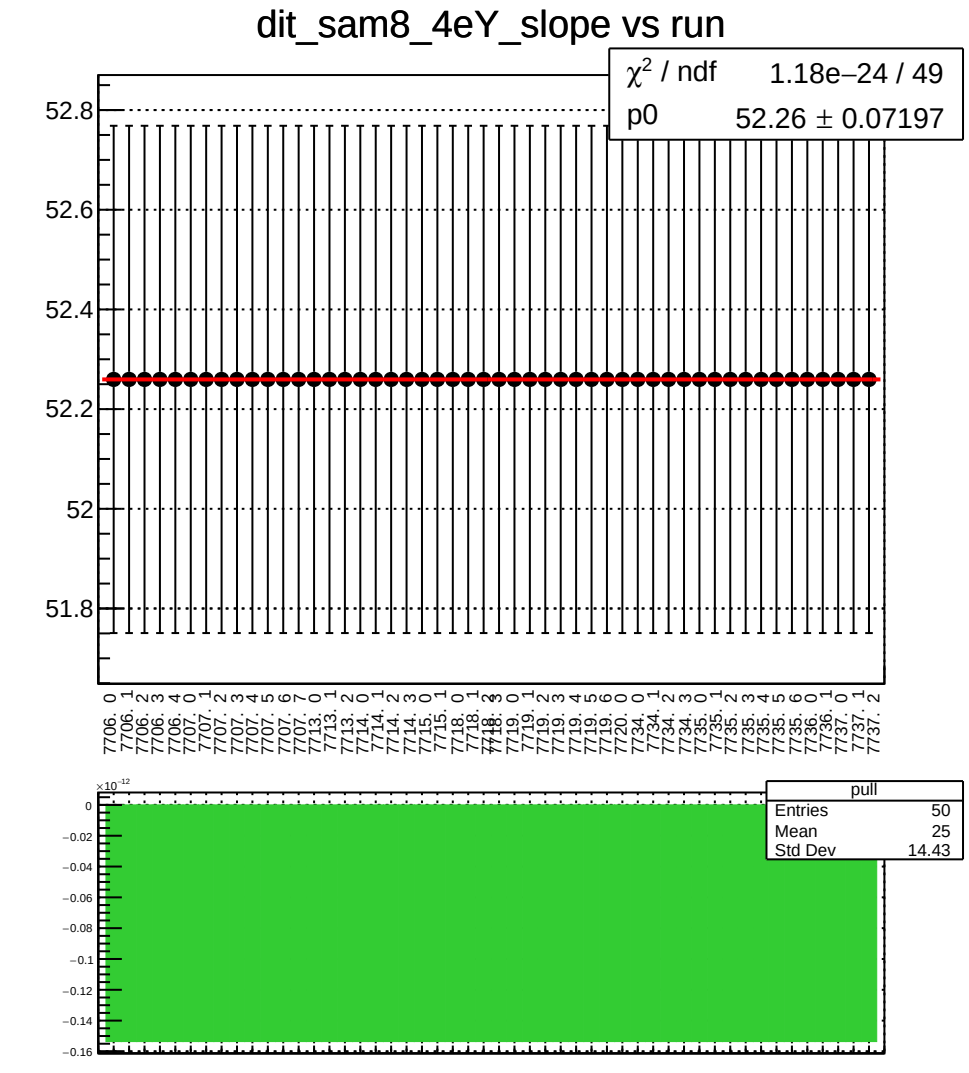
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.289e−13
Std Dev4.482e−21
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


dit_sam8_4eY_slope vs run
χ² / ndf 1.18e−24 / 49
p0 52.26 ± 0.07197
52.8
52.6
52.4
52.2
52
51.8
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
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7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
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7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
×10⁻¹²
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 50
Mean 25
Std Dev 14.43
pull1D
Entries 50
Mean −1.536e−13
Std Dev 4.15e−21
50
40
30
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−4
−2
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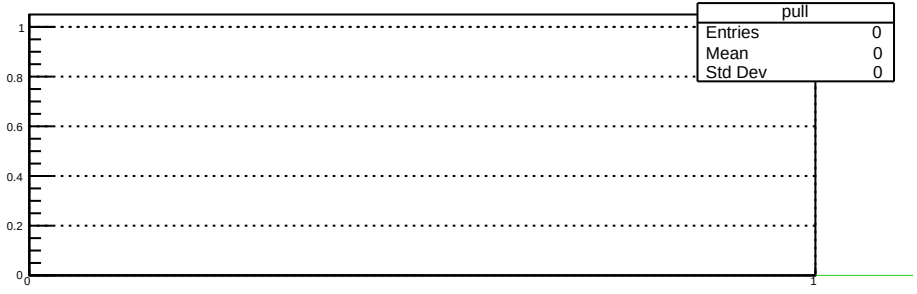
2
4
6
8


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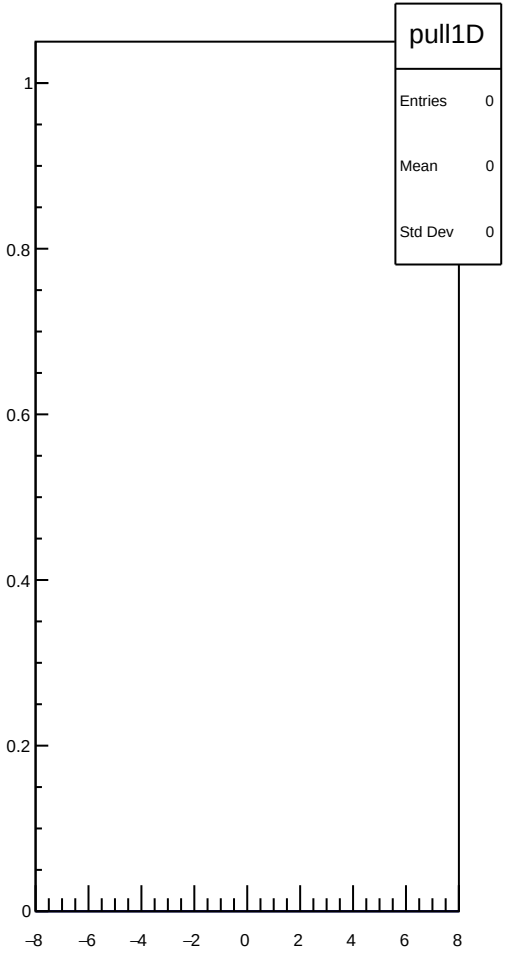
0.6
0.4
0.2
0
0
1


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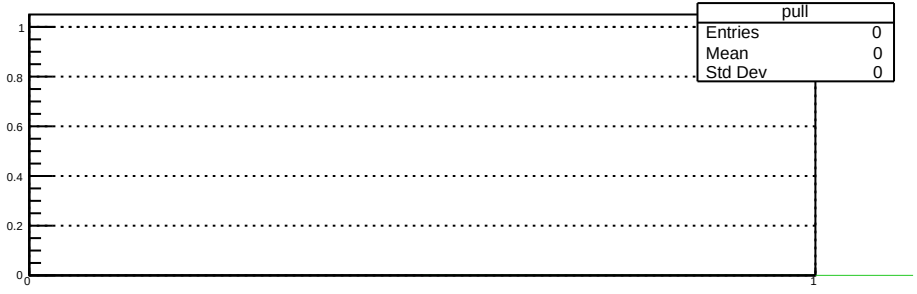
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
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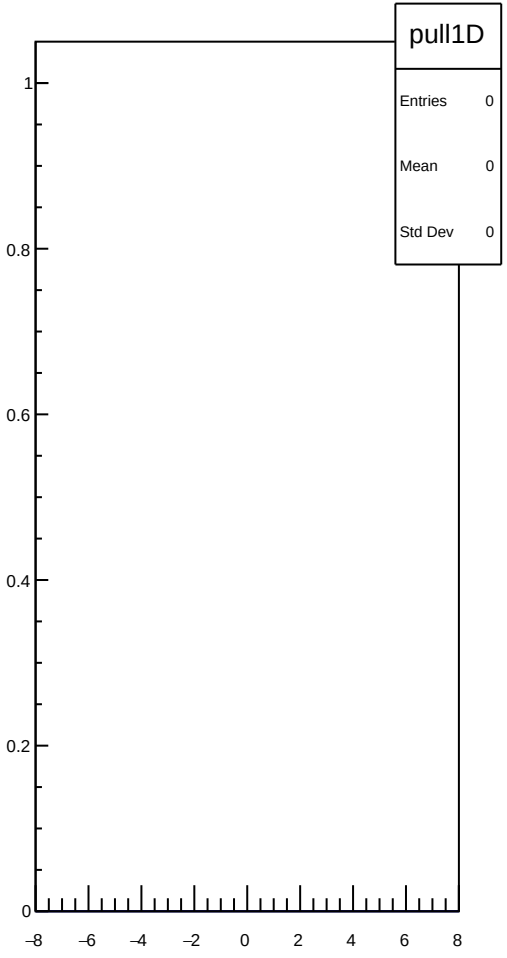
1


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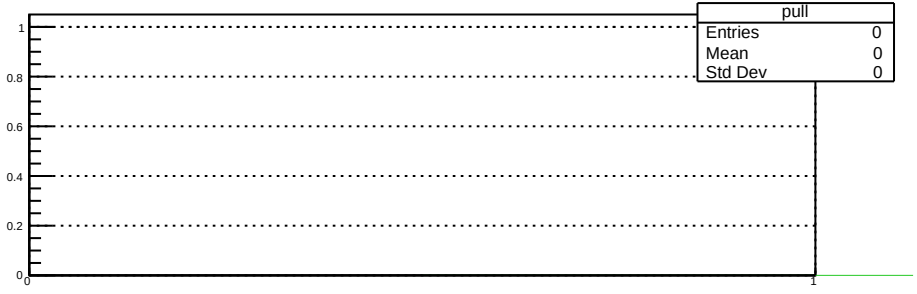
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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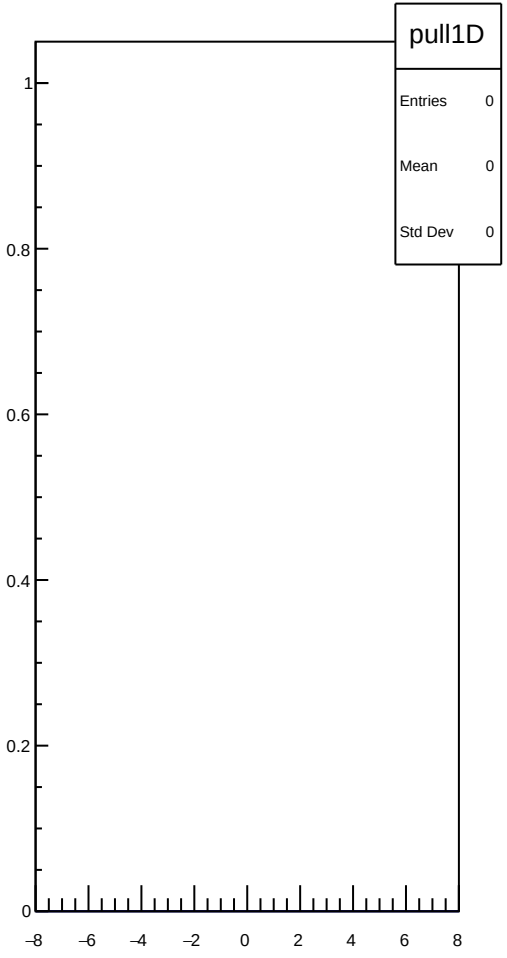
0.6
0.4
0.2
0
0
1


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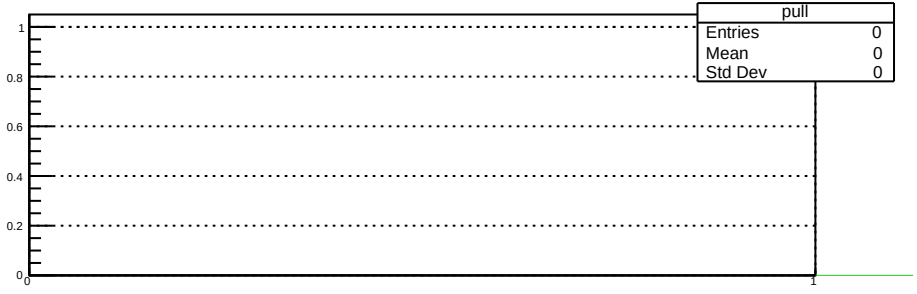
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


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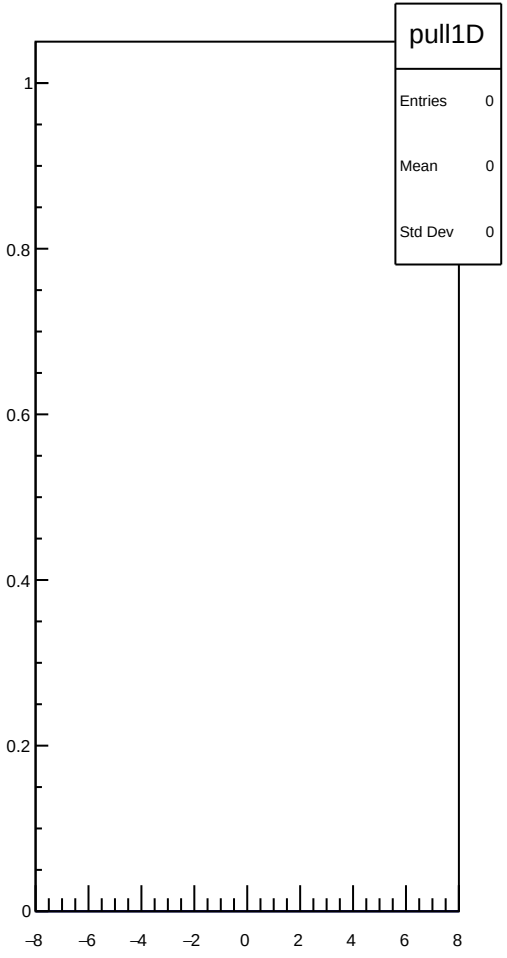
0
0
1


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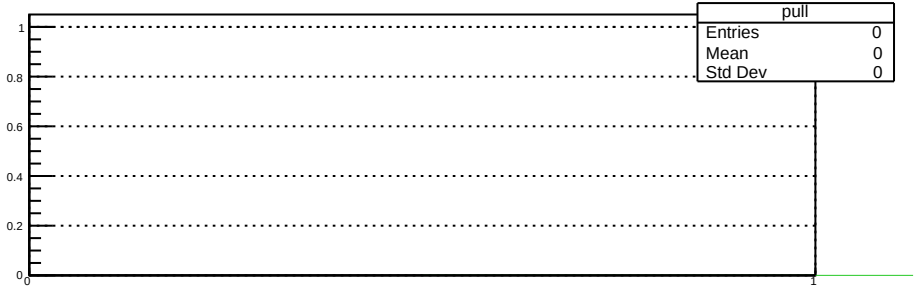
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
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0.6
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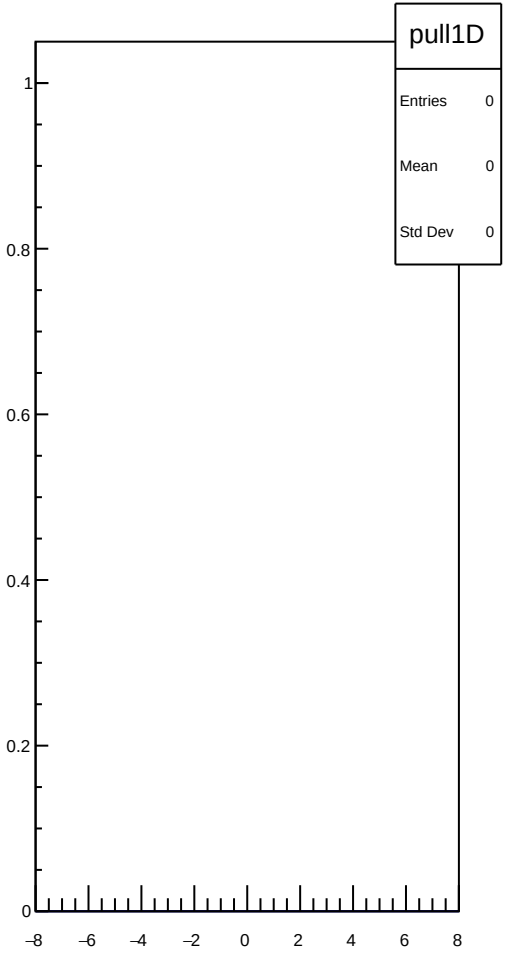
0
1


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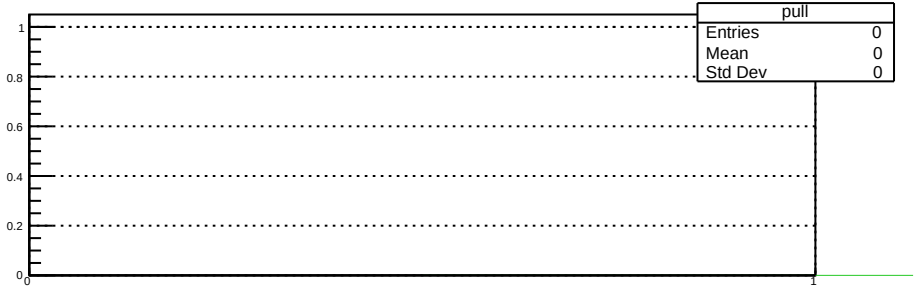
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
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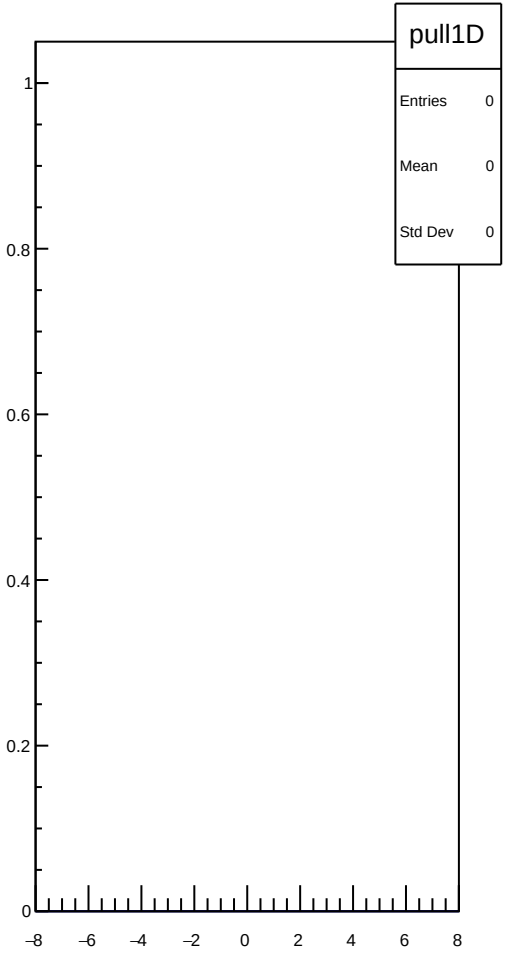
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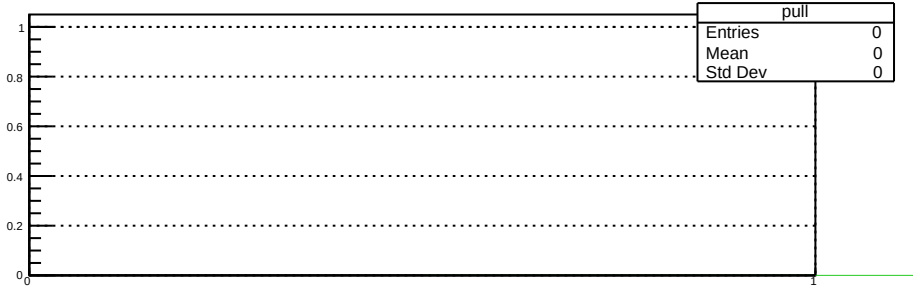
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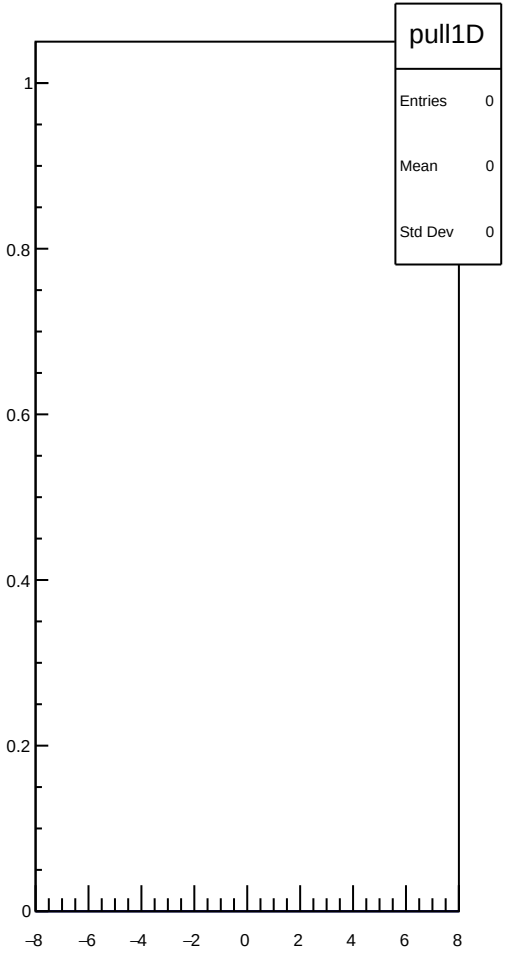
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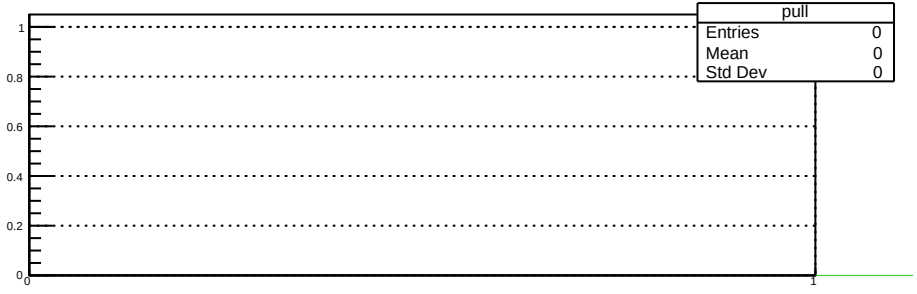
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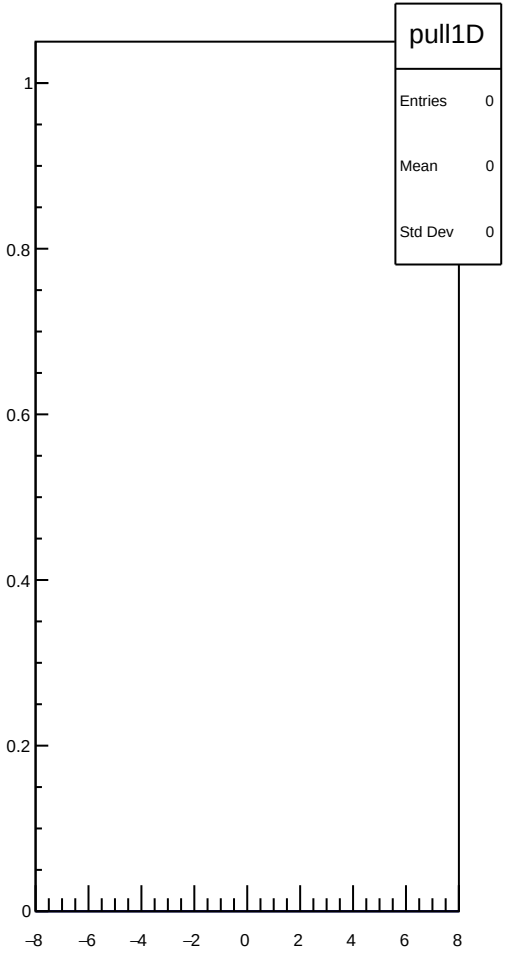
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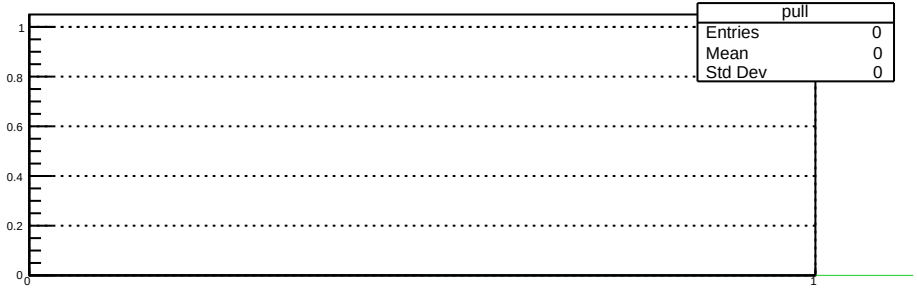
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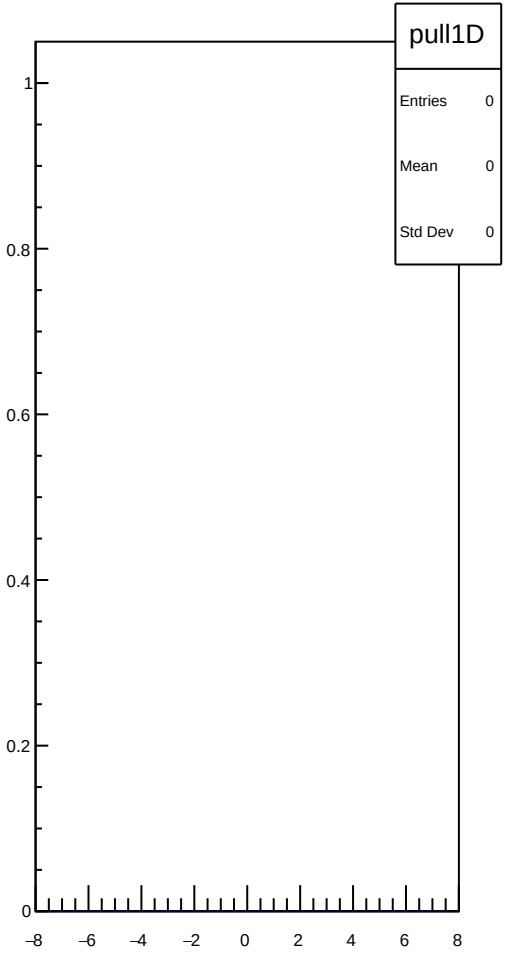
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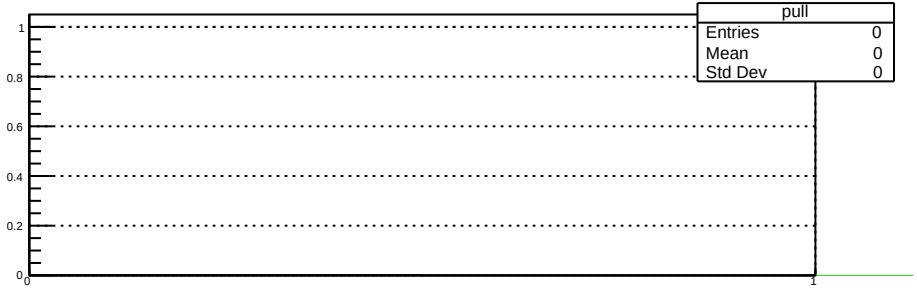
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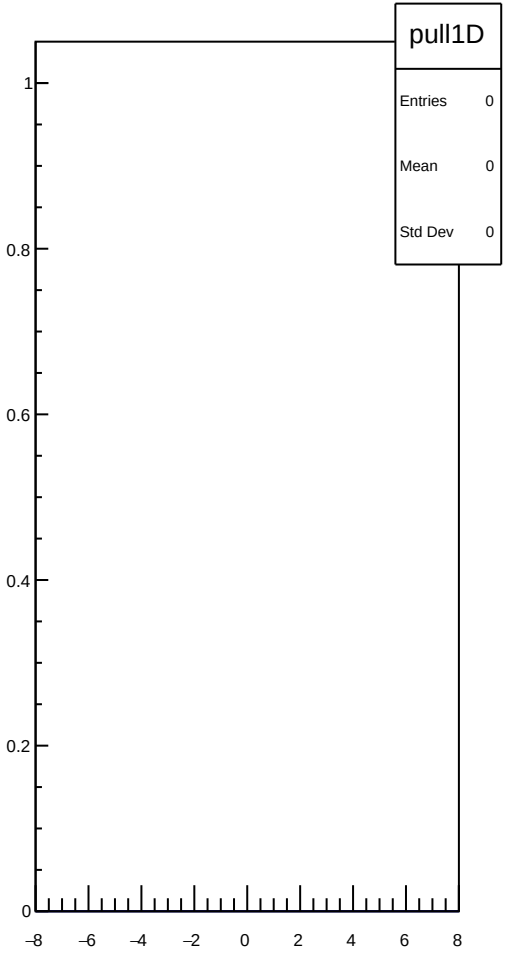
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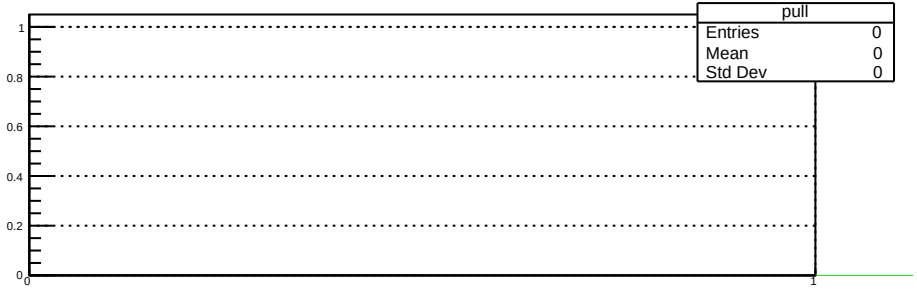
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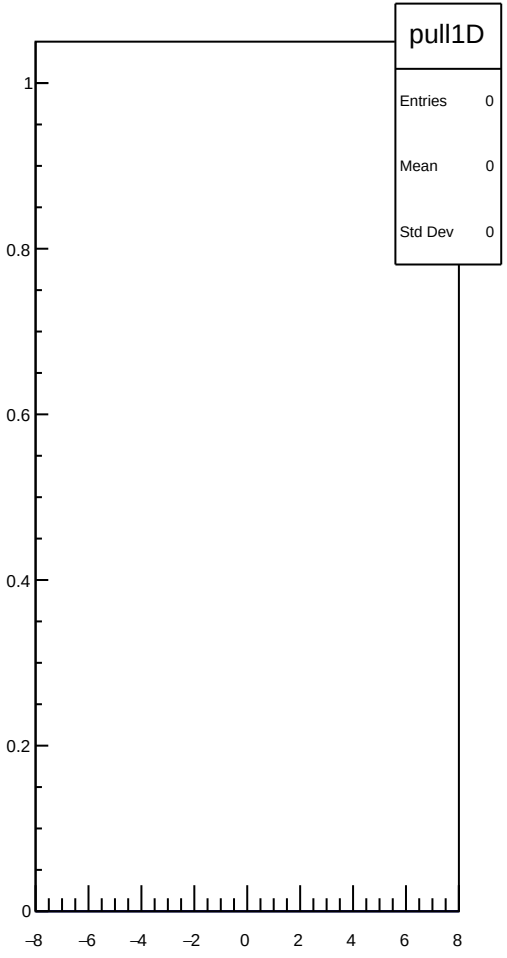
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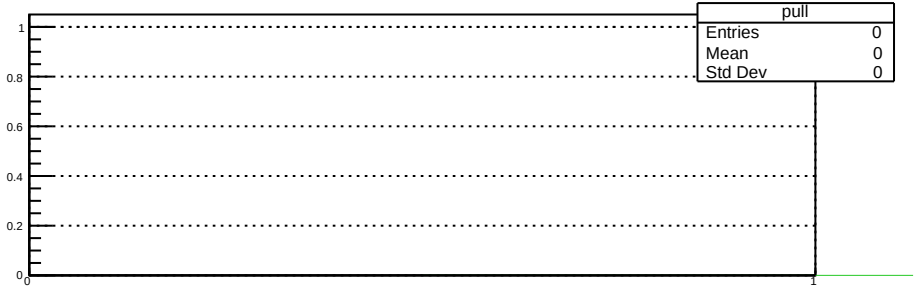
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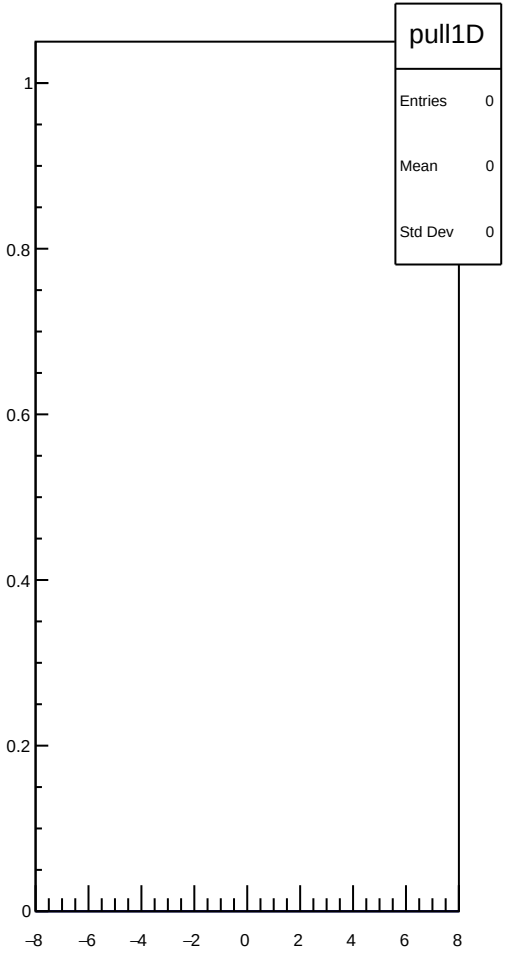
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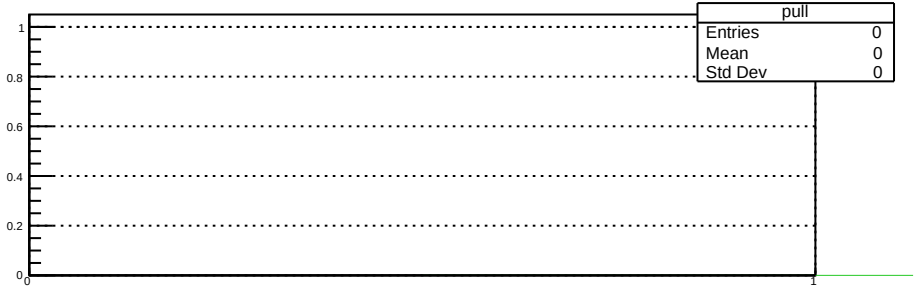
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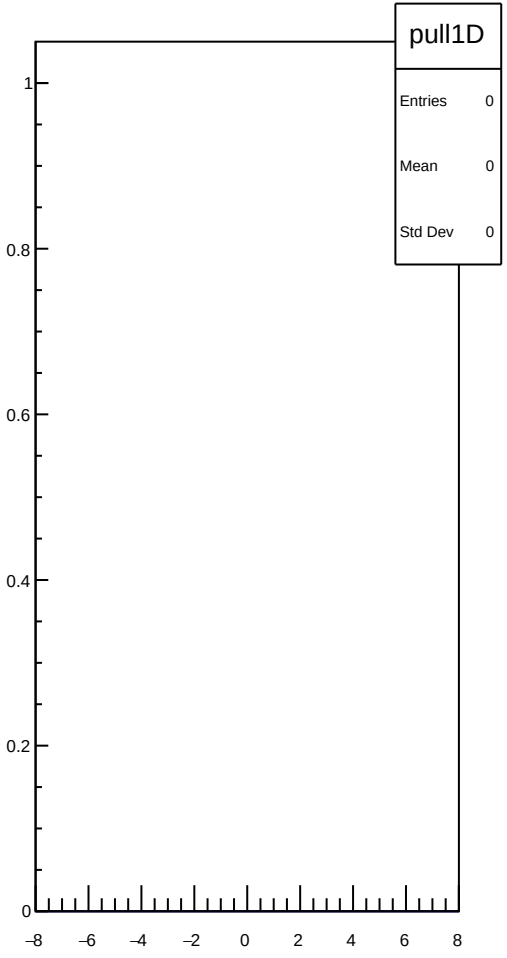
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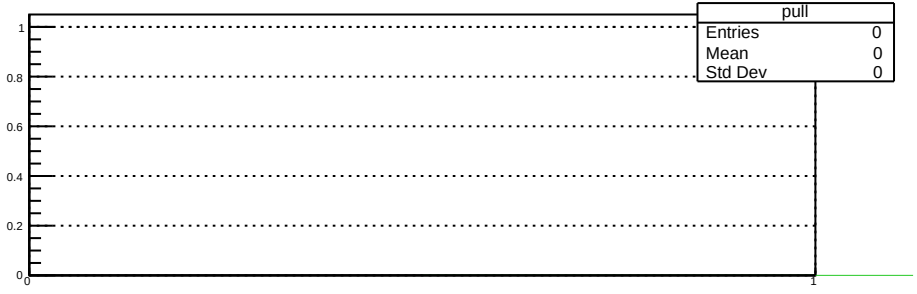
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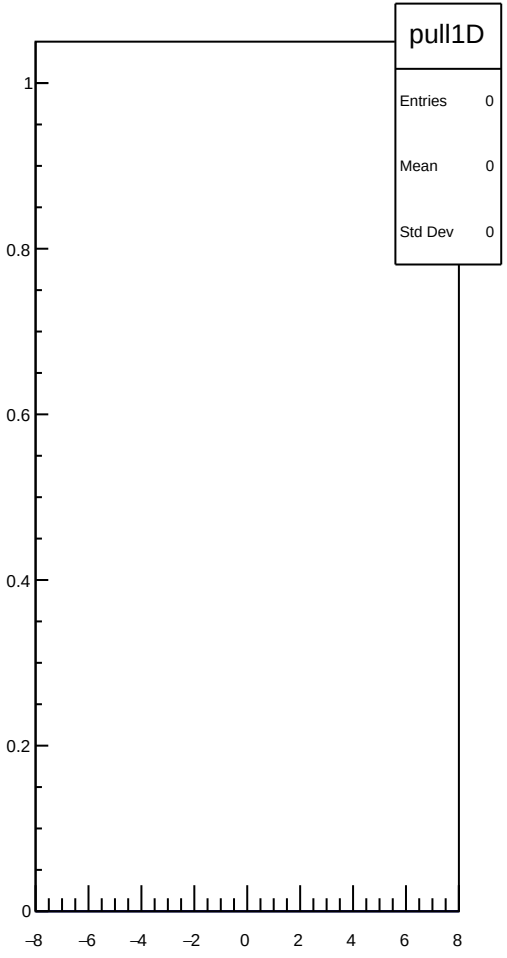
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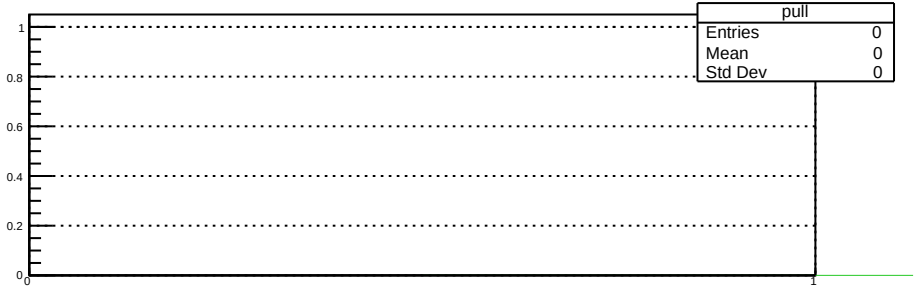
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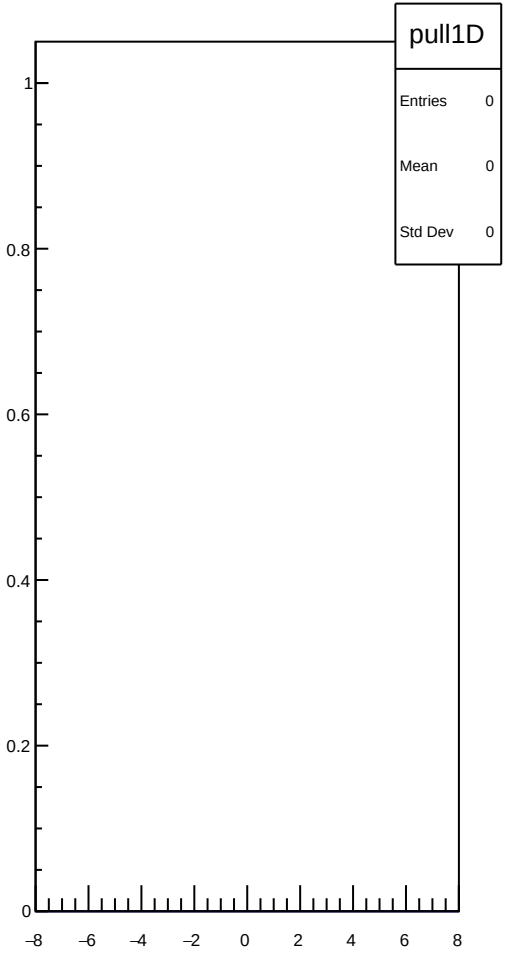
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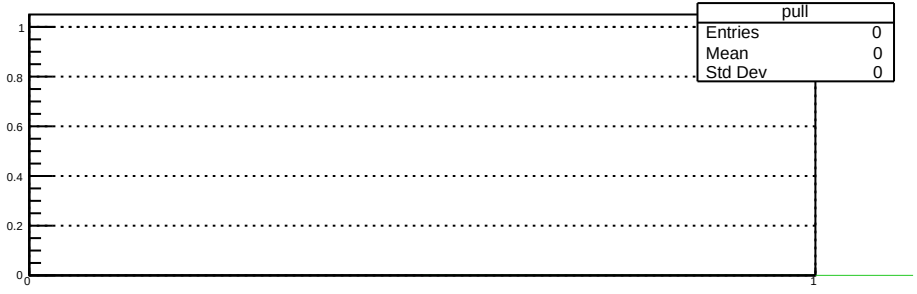
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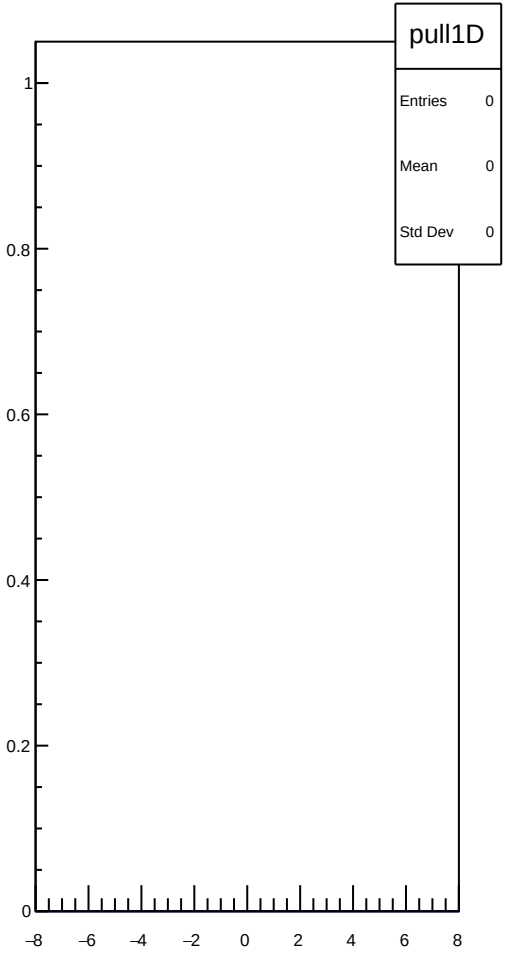
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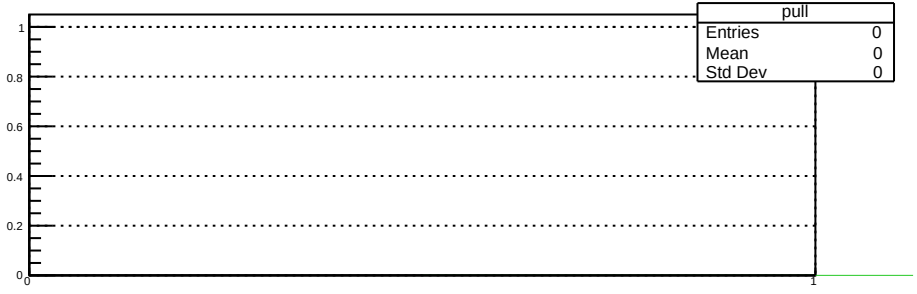
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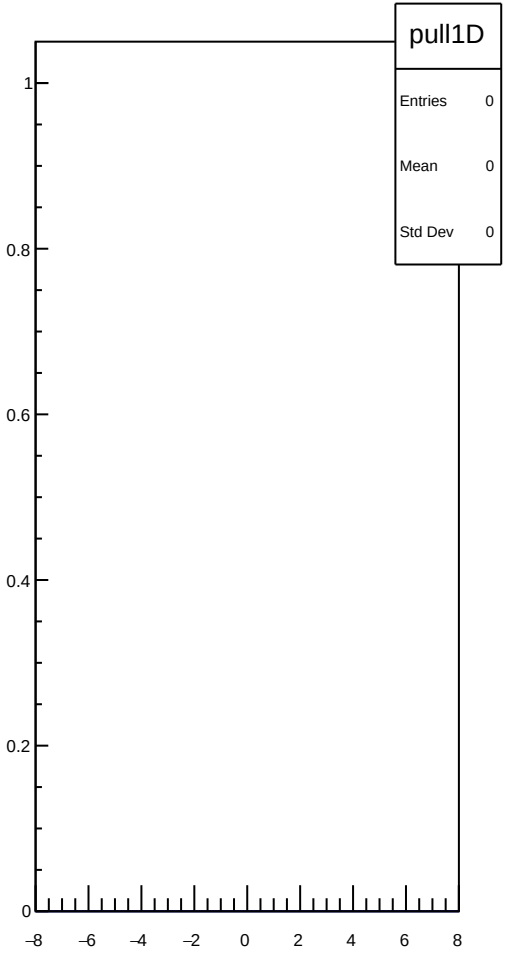
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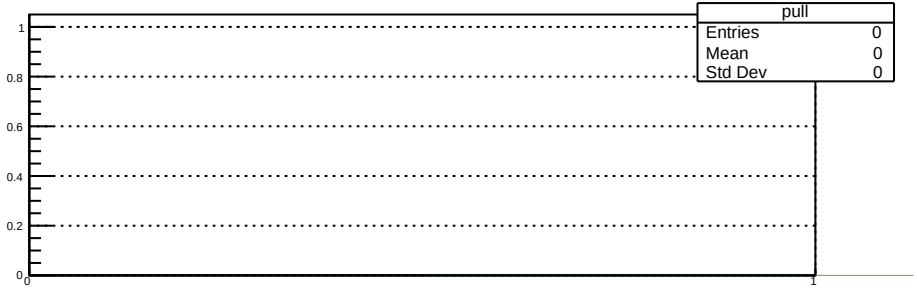
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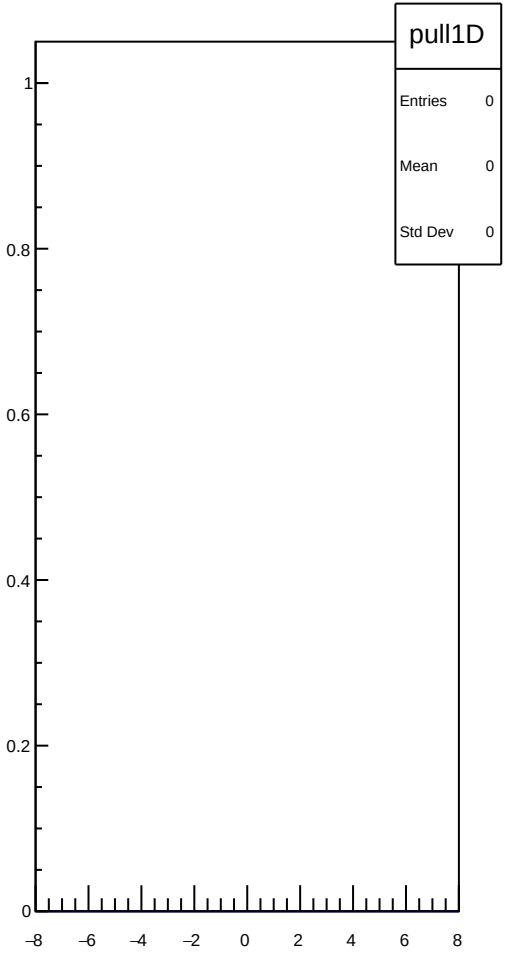
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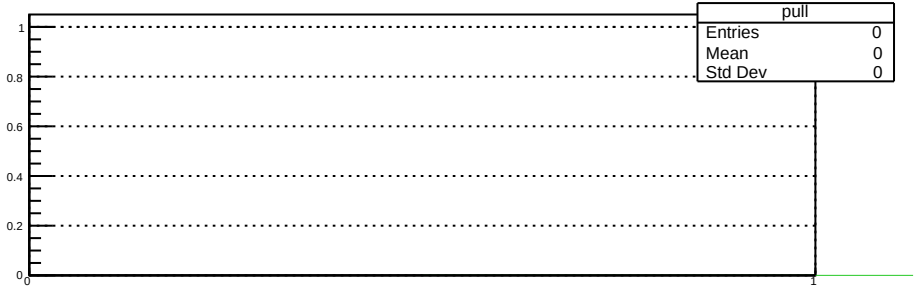
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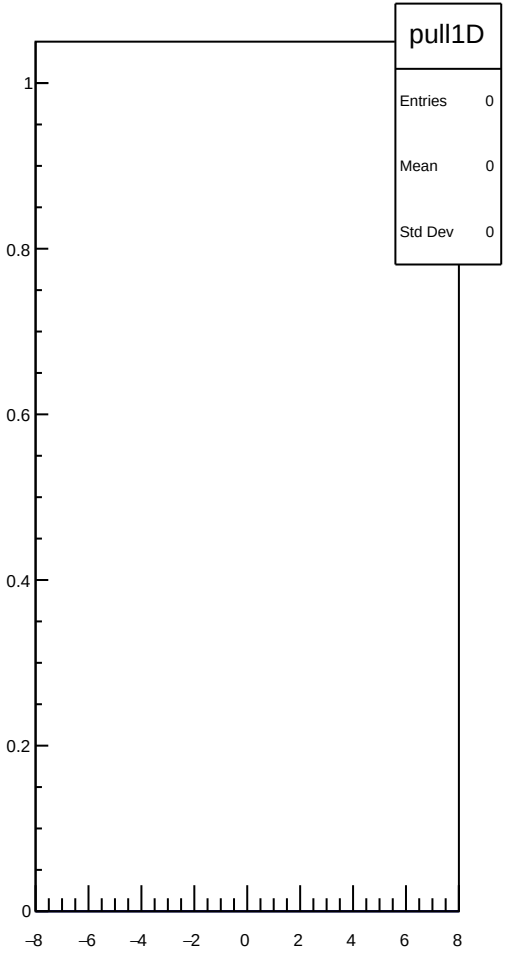
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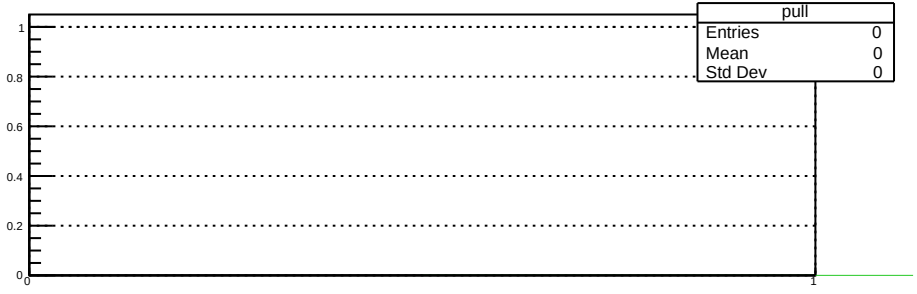
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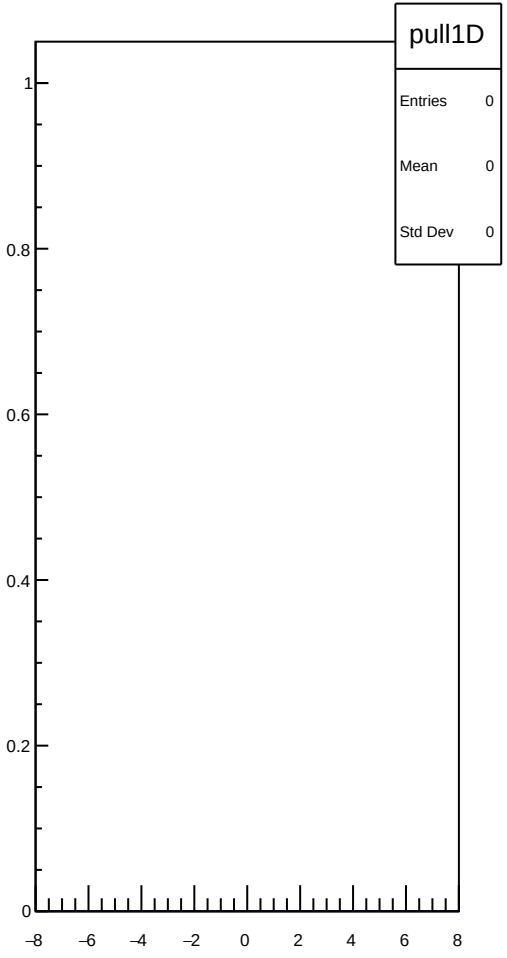
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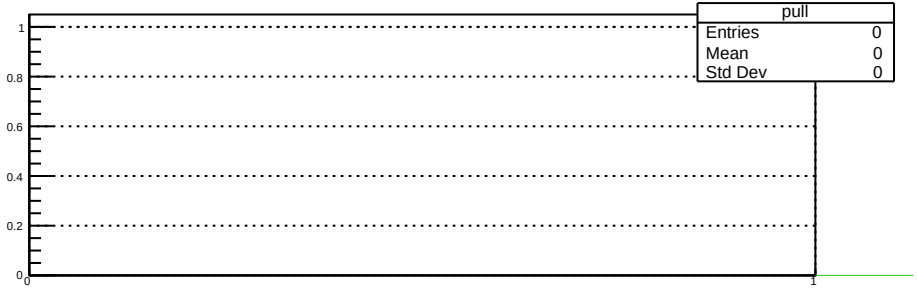
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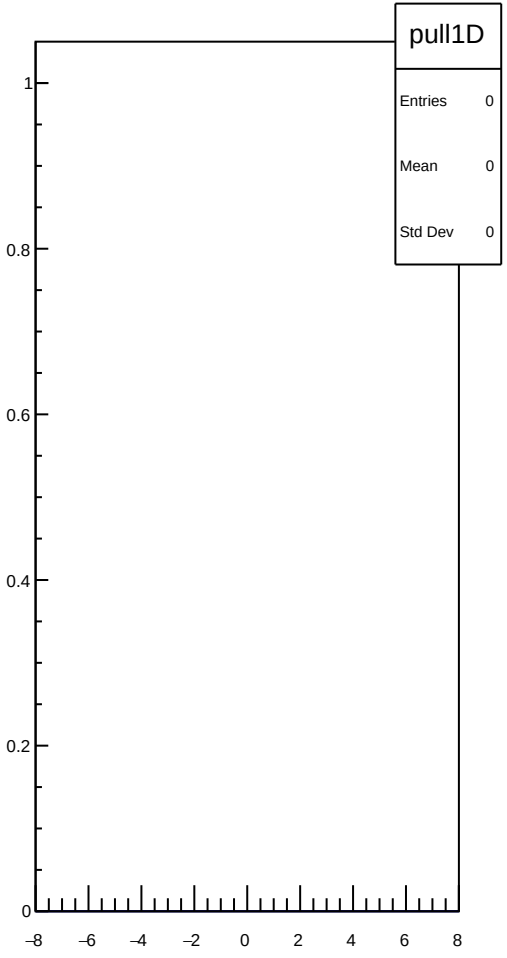
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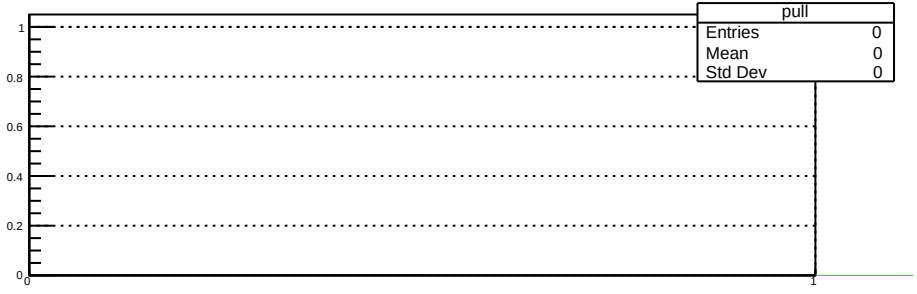
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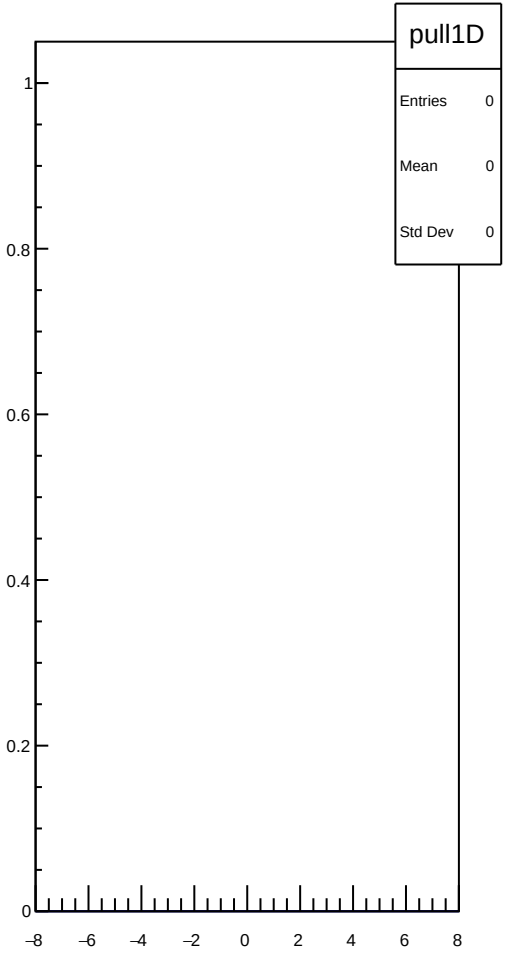
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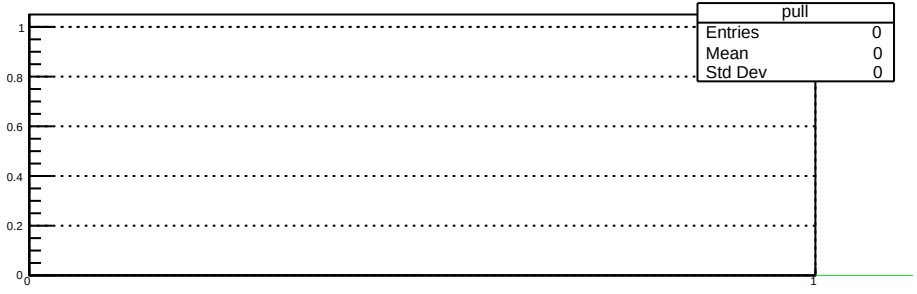
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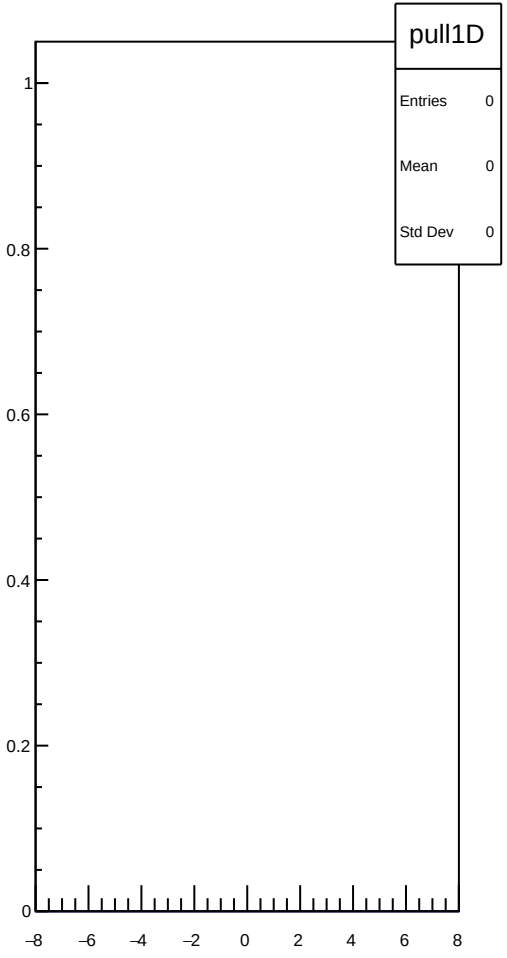
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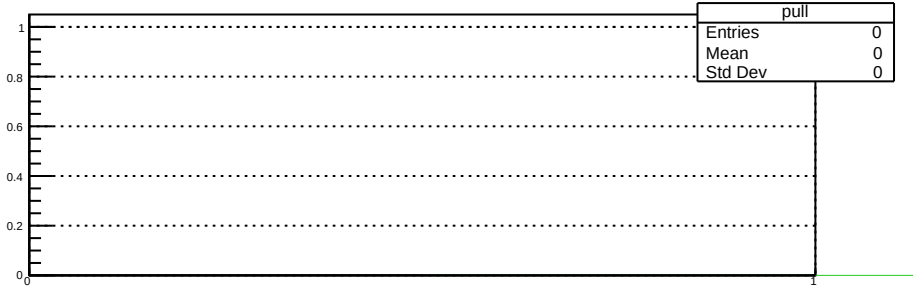
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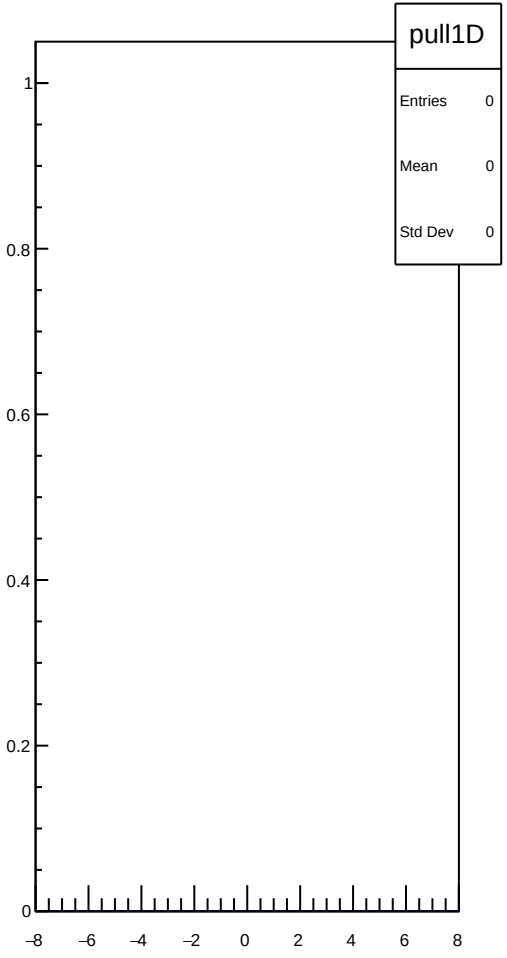
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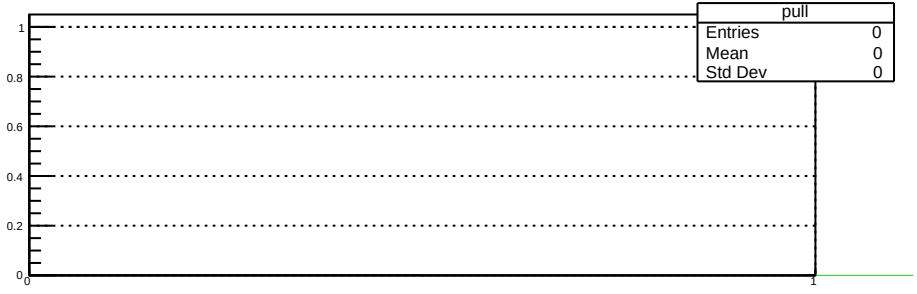
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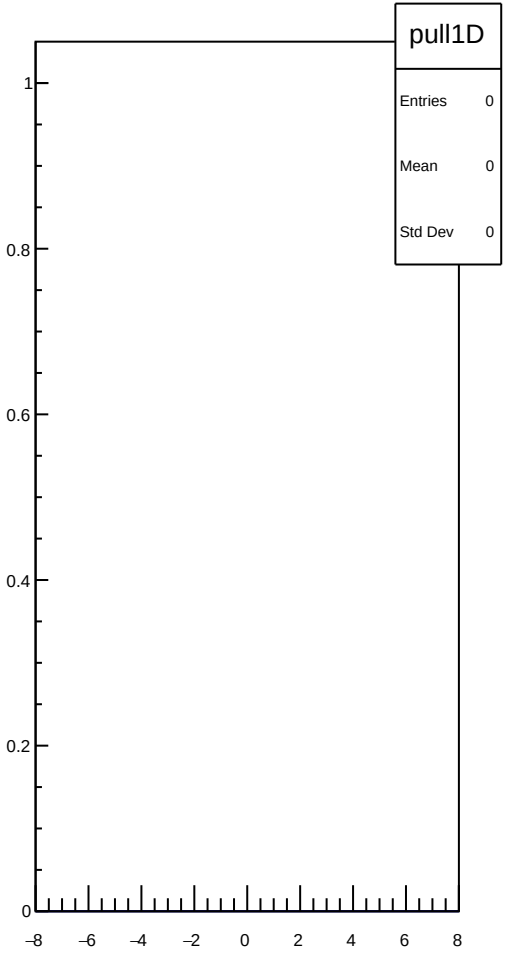
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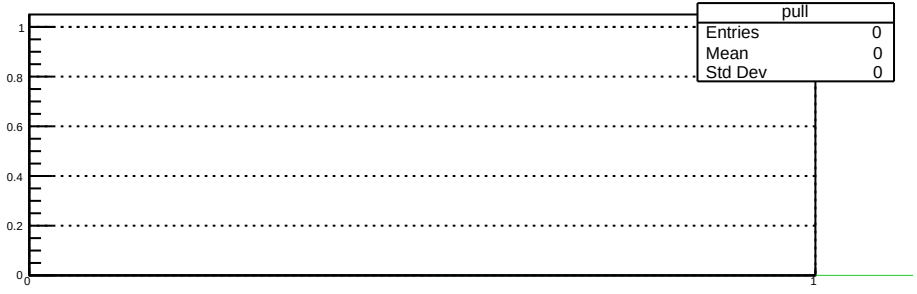
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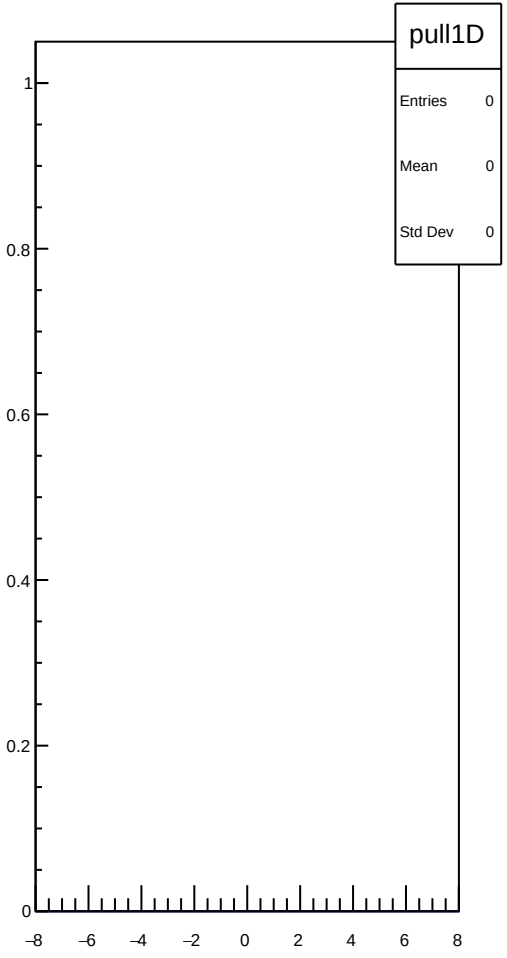
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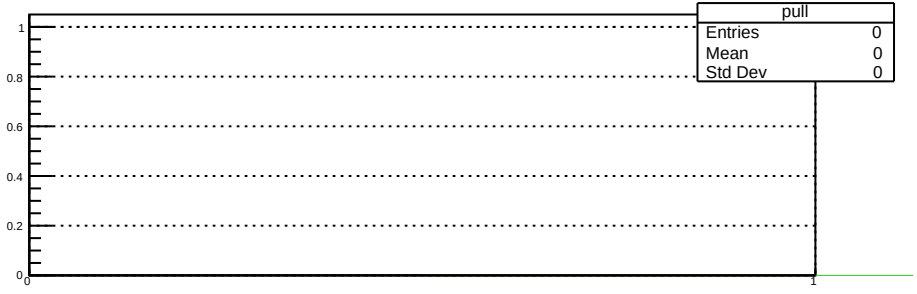
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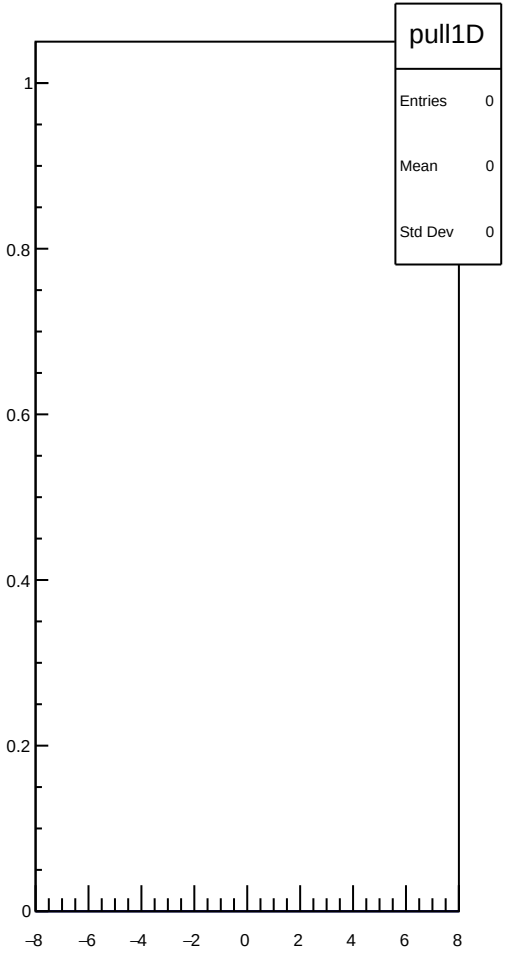
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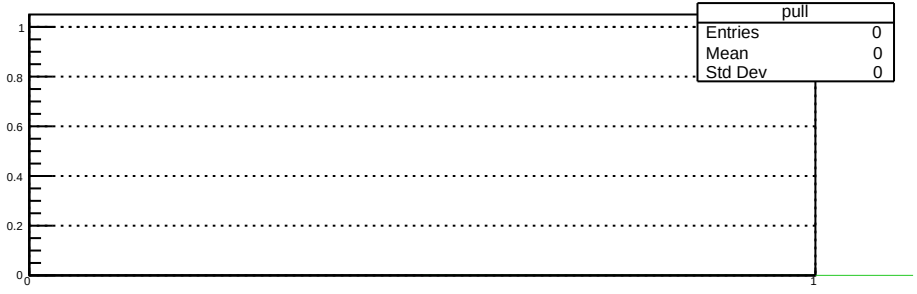
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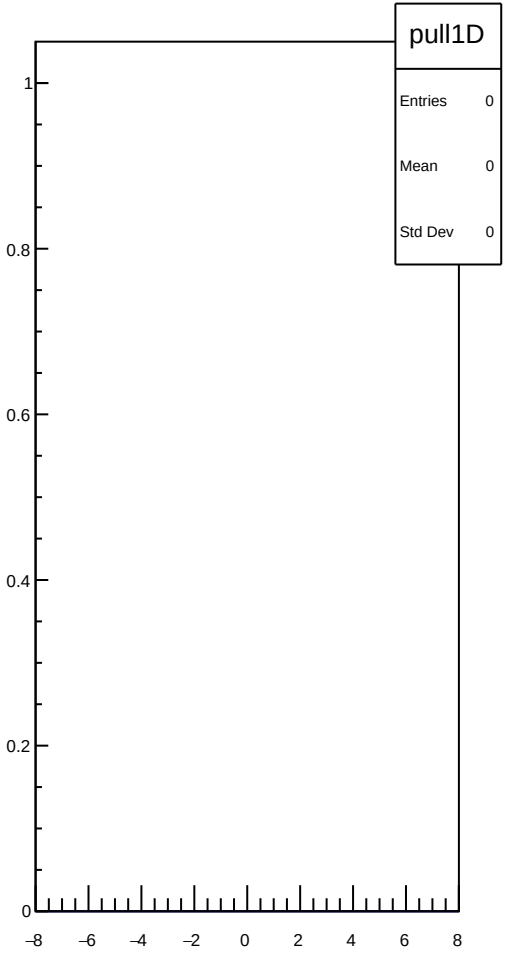
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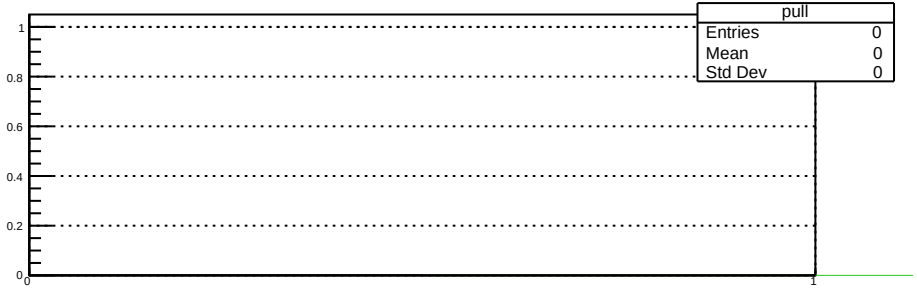
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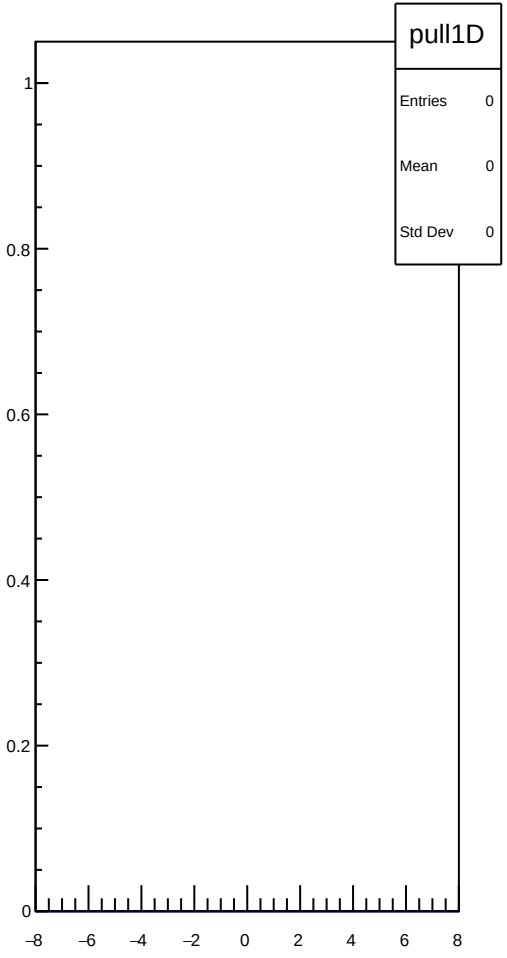
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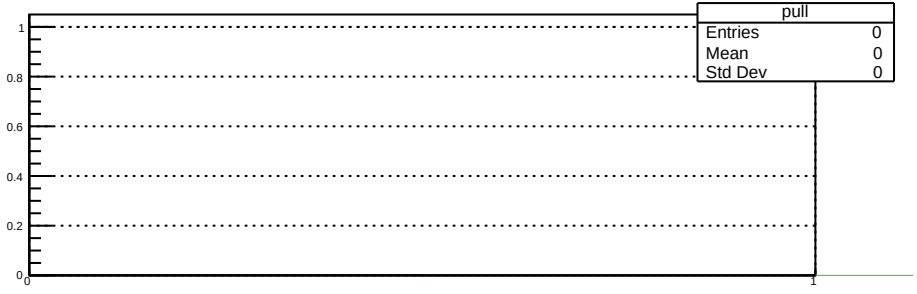
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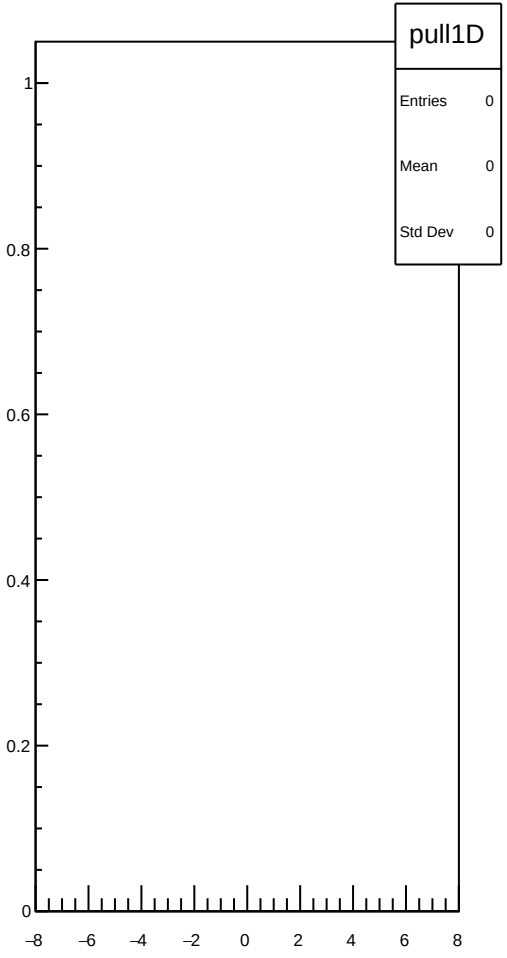
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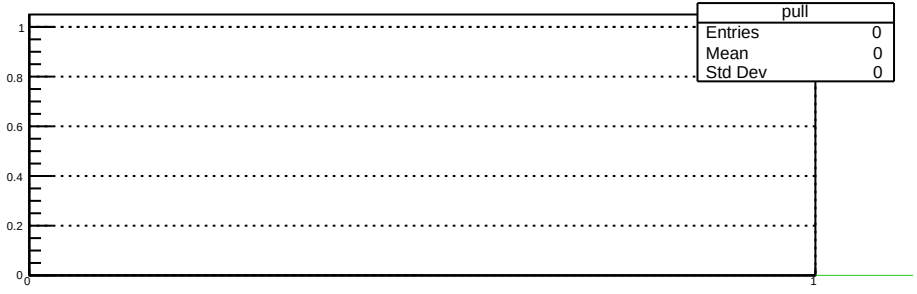
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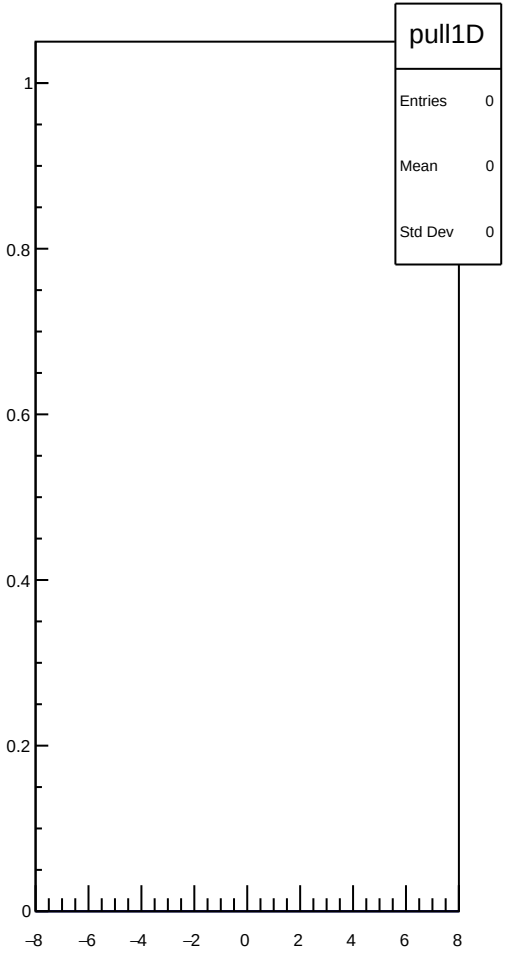
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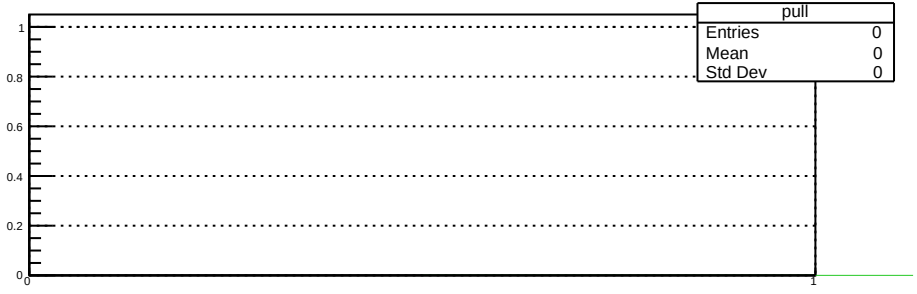
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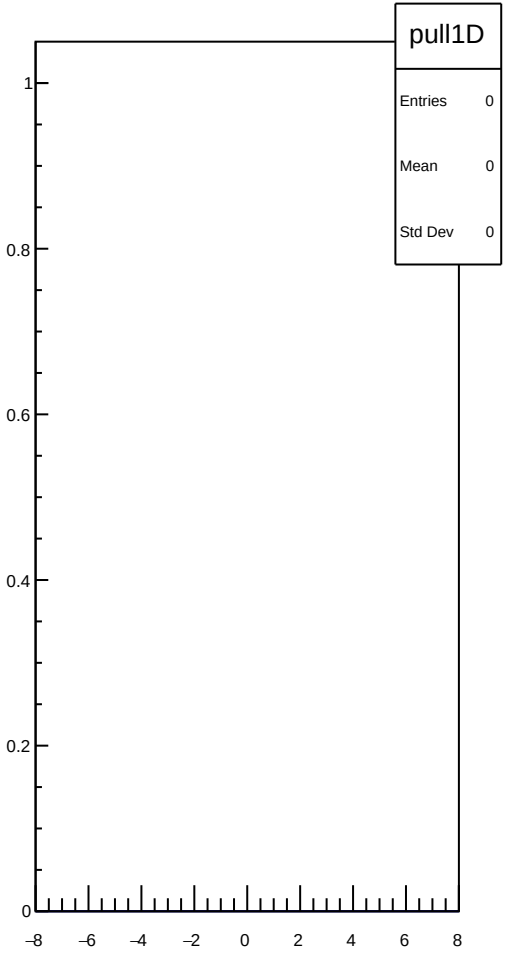
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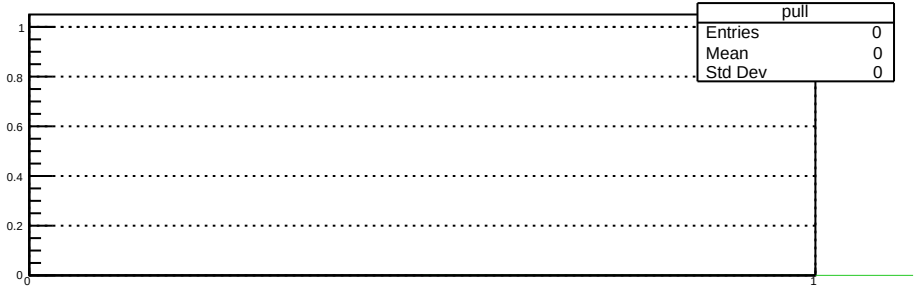
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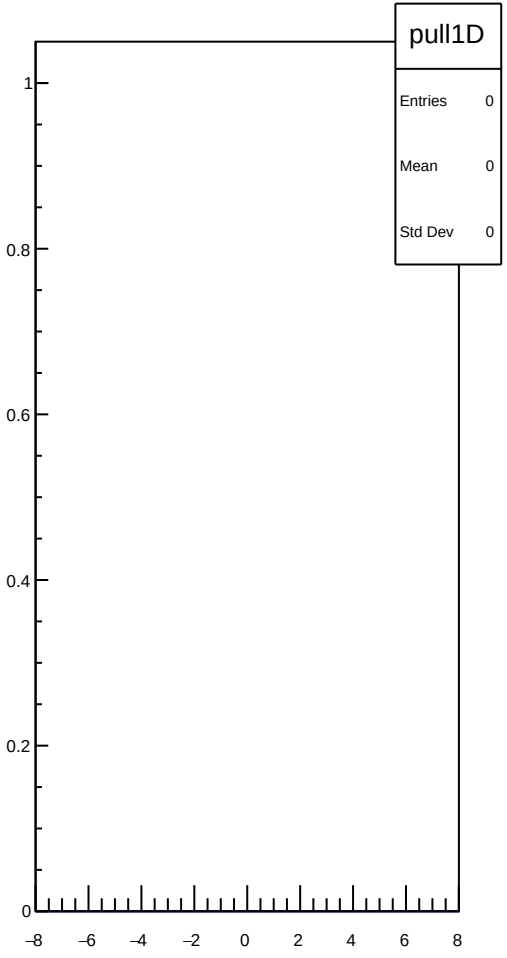
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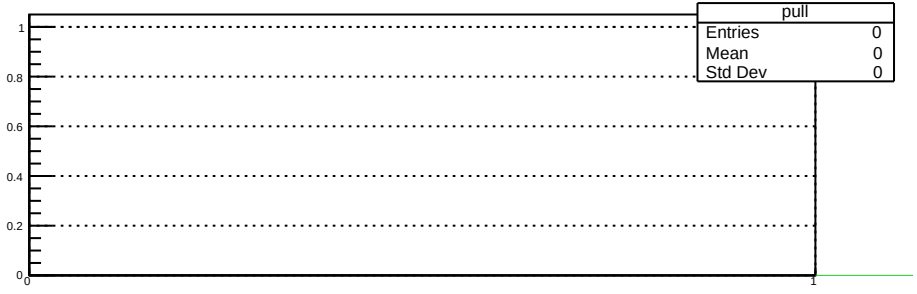
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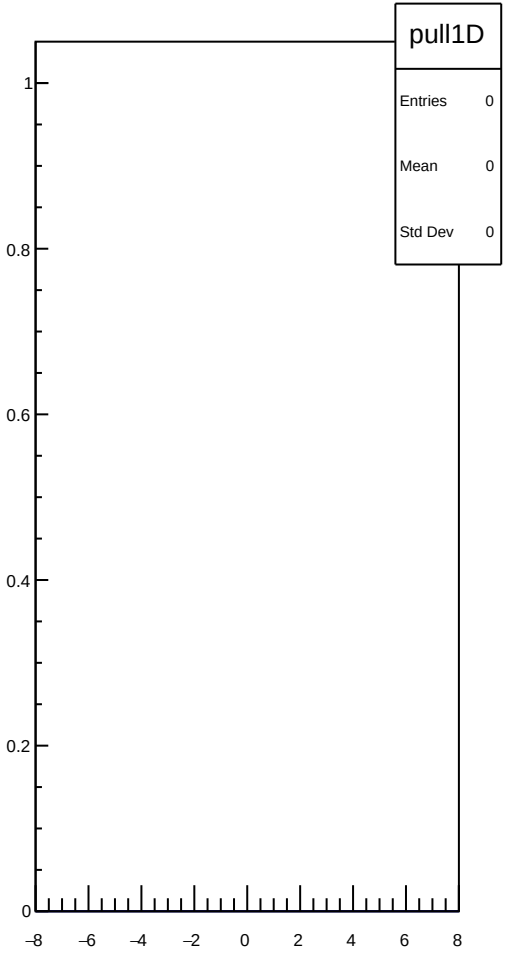
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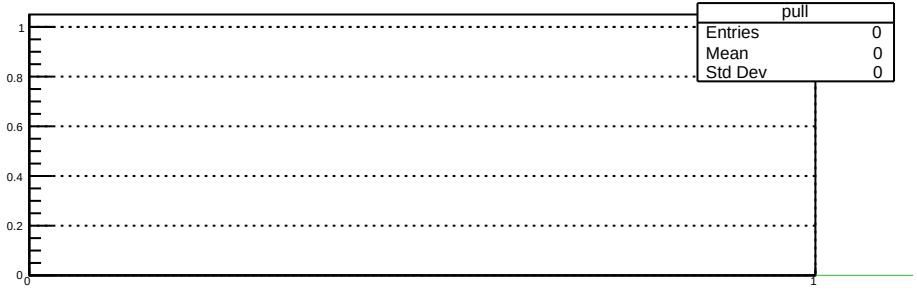
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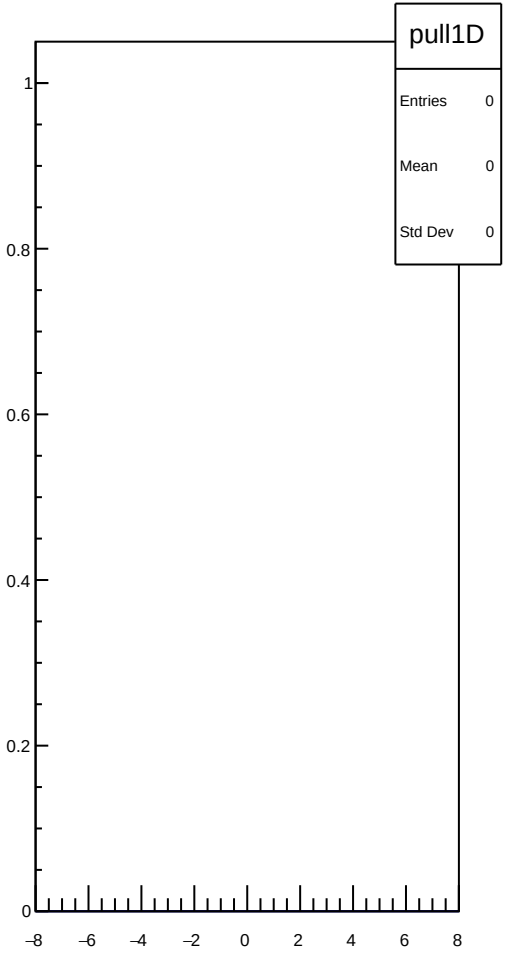
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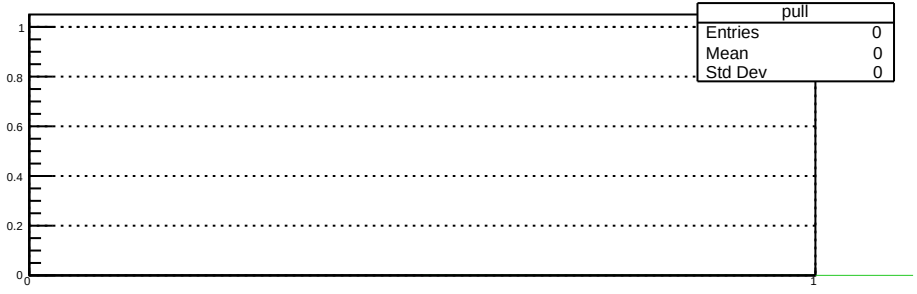
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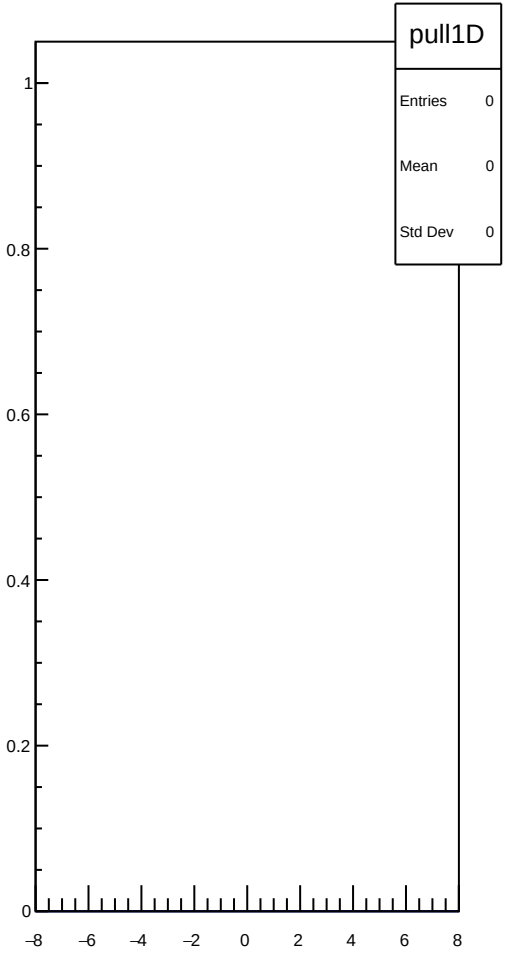
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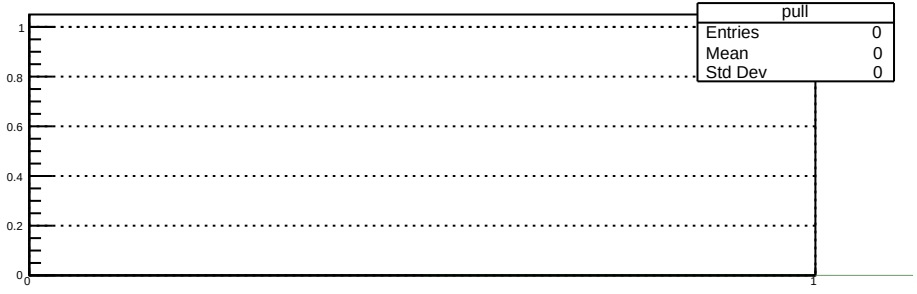
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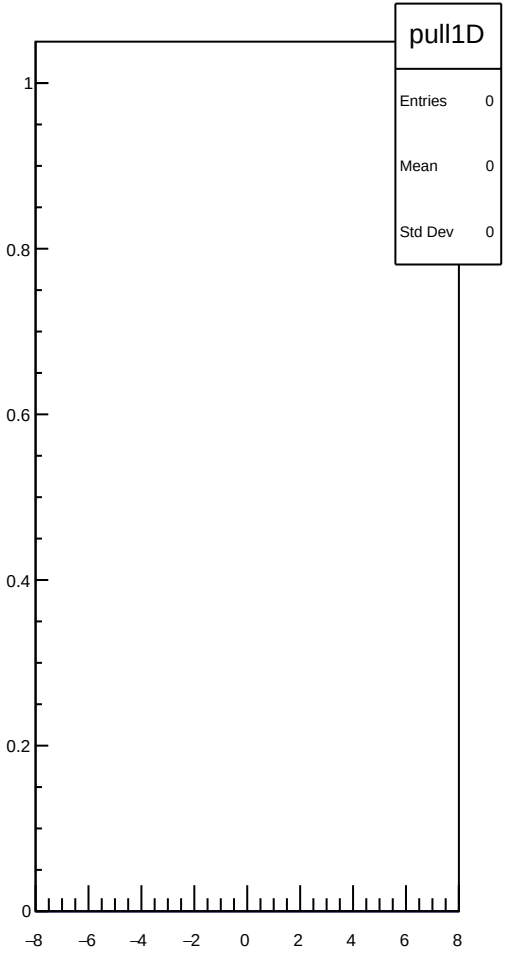
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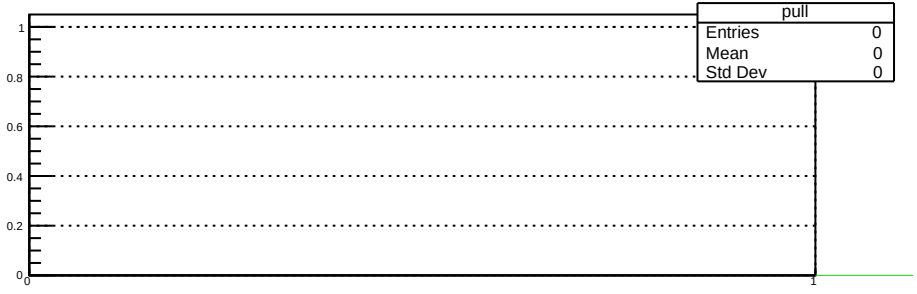
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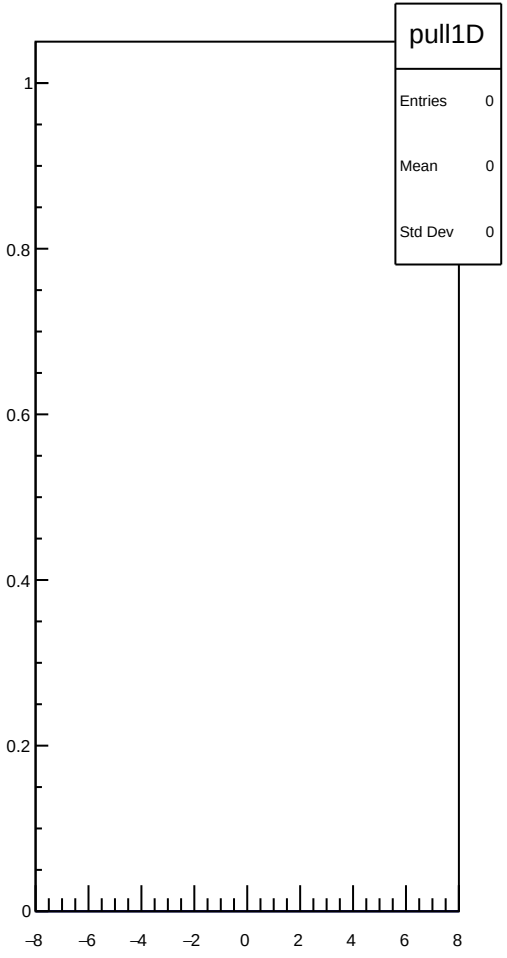
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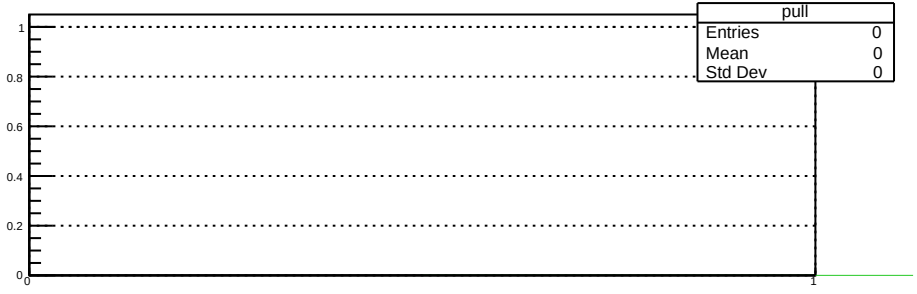
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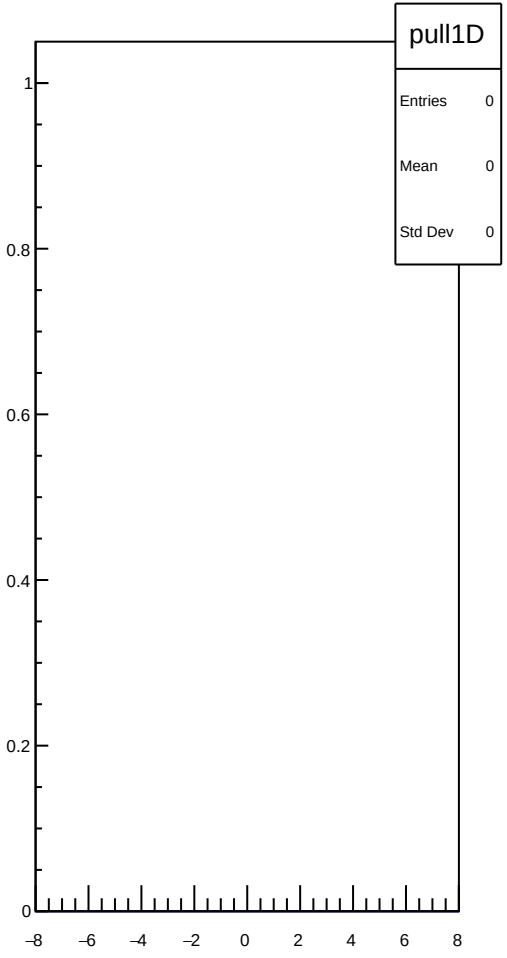
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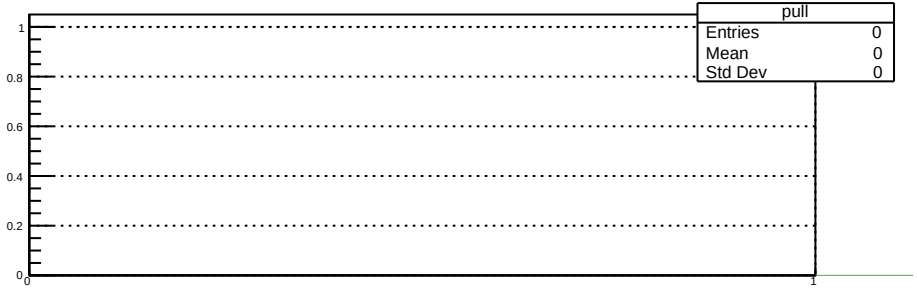
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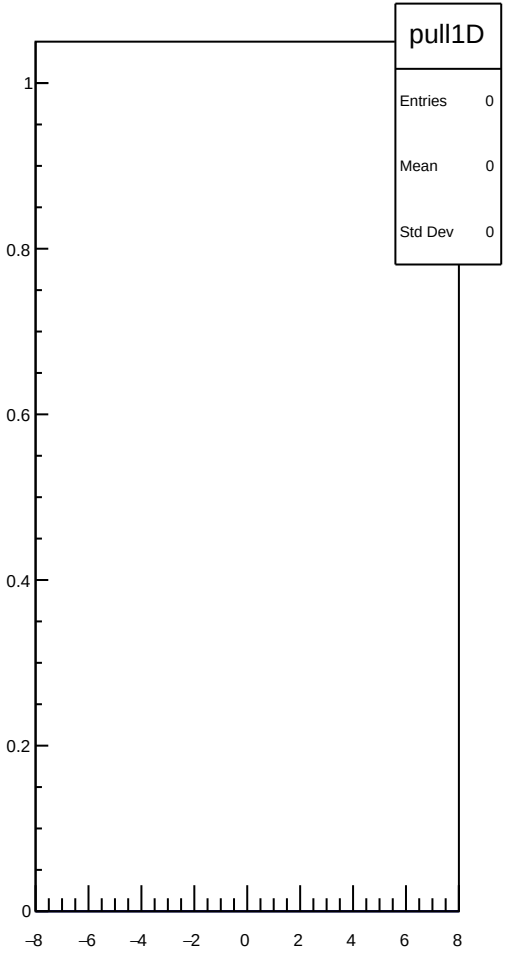
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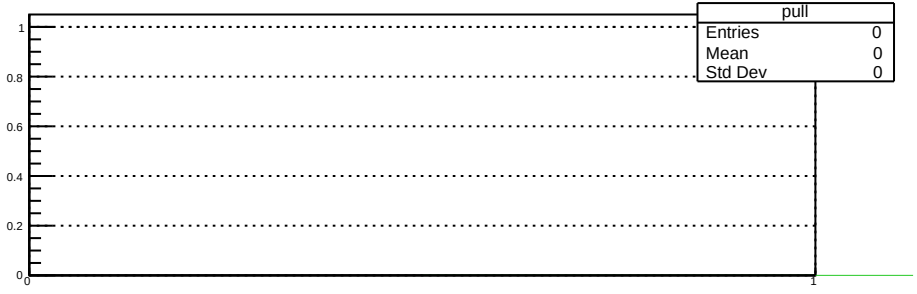
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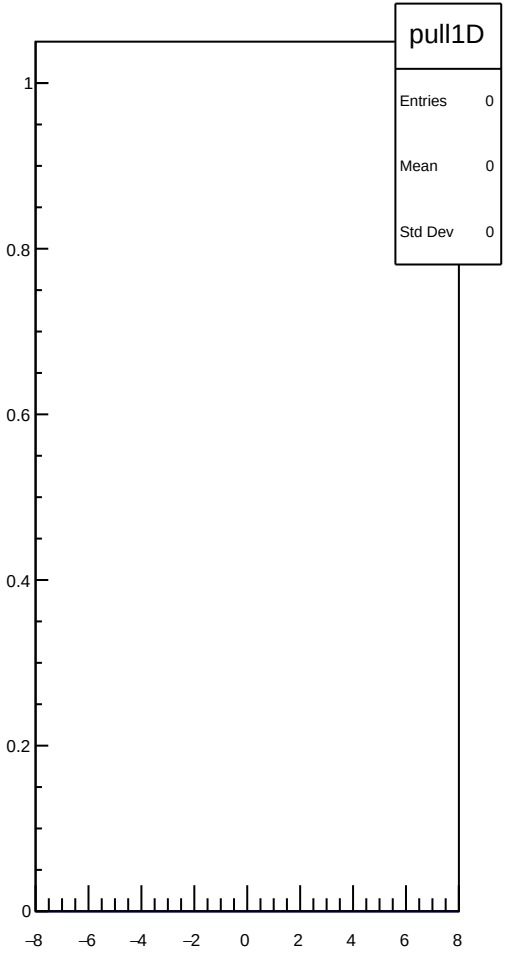
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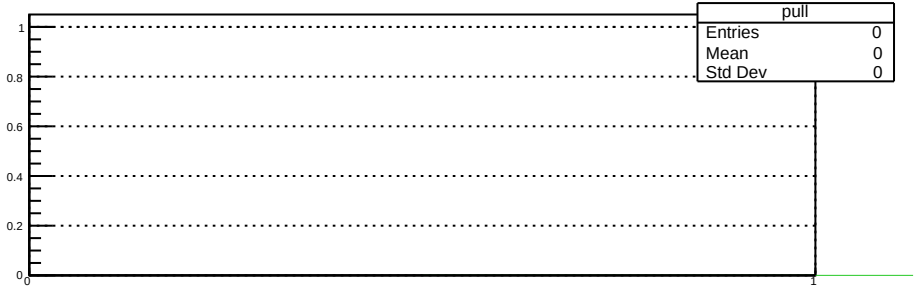
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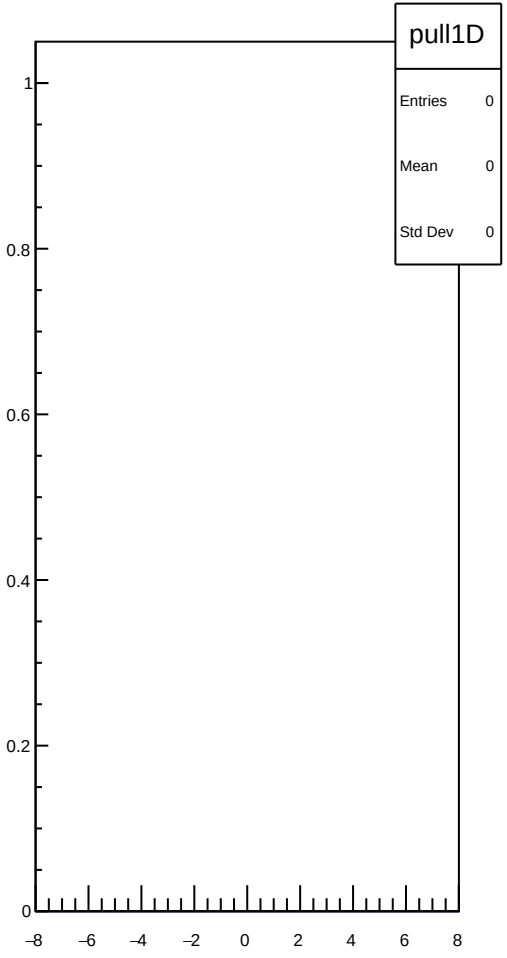
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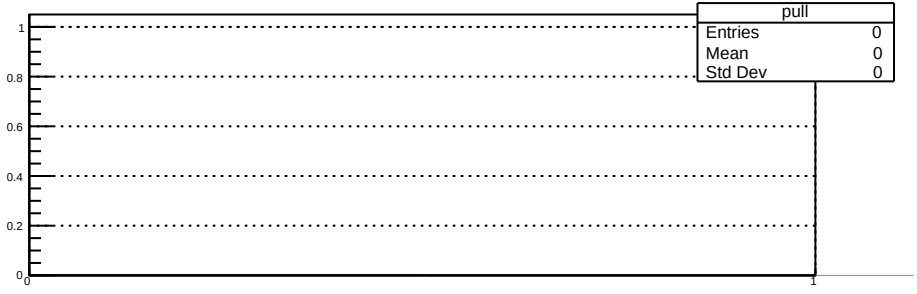
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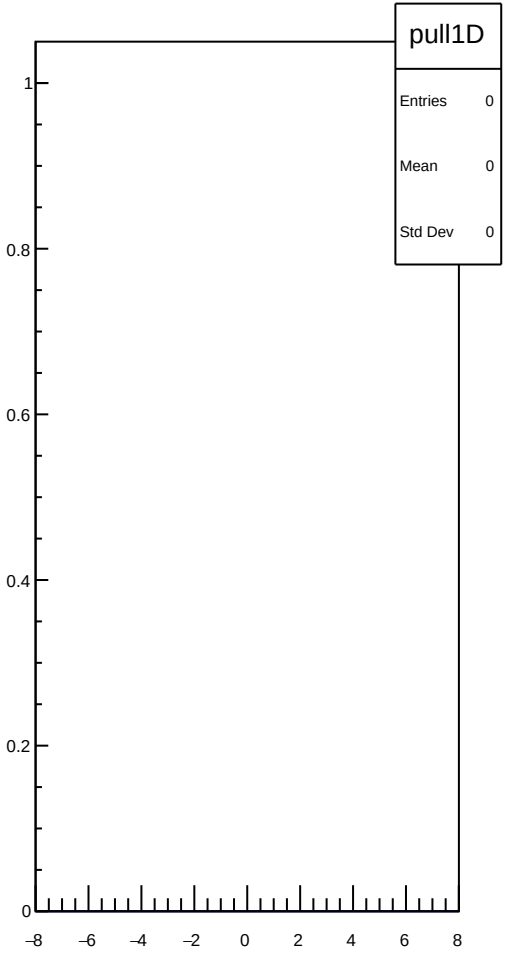
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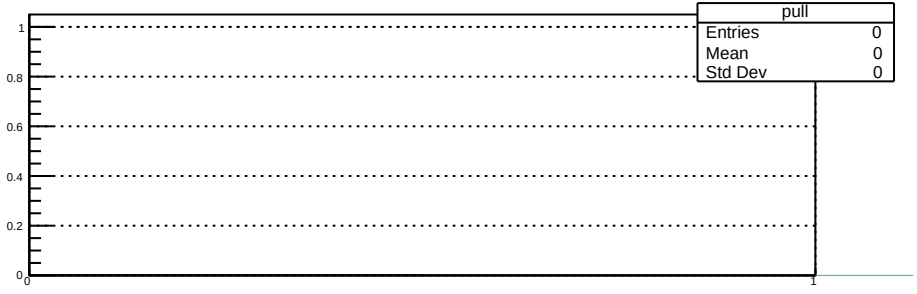
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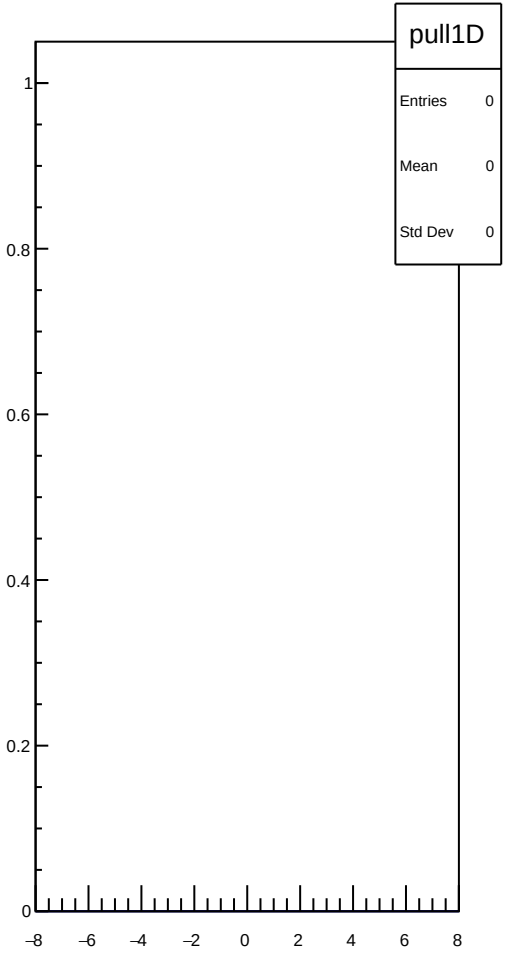
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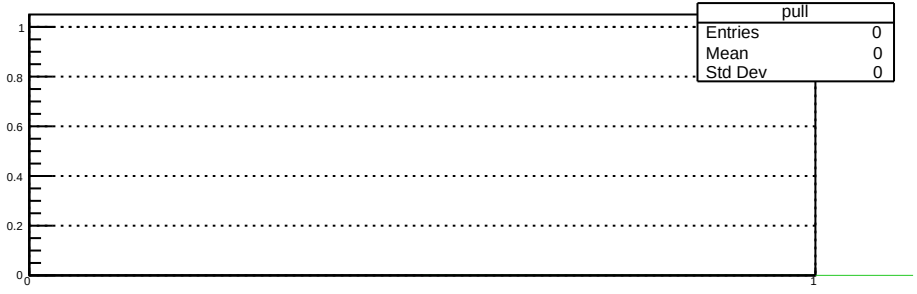
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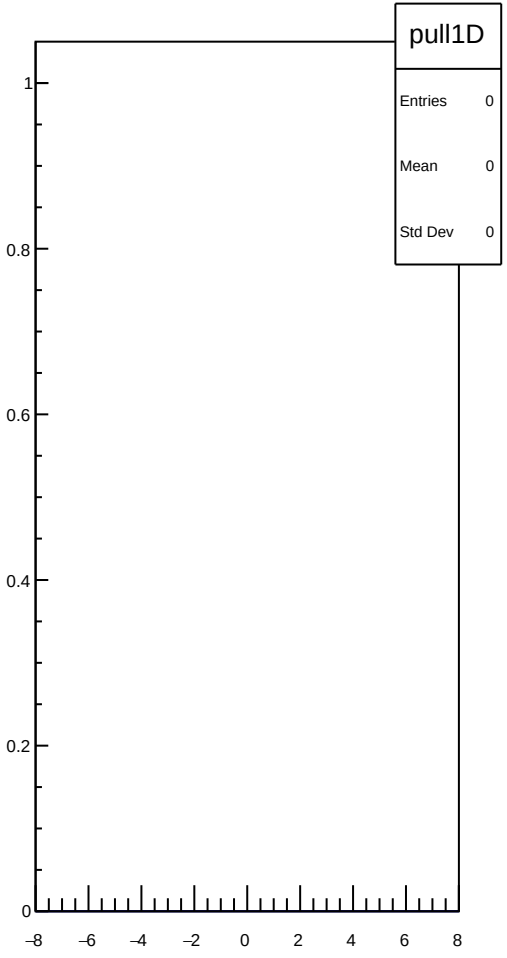
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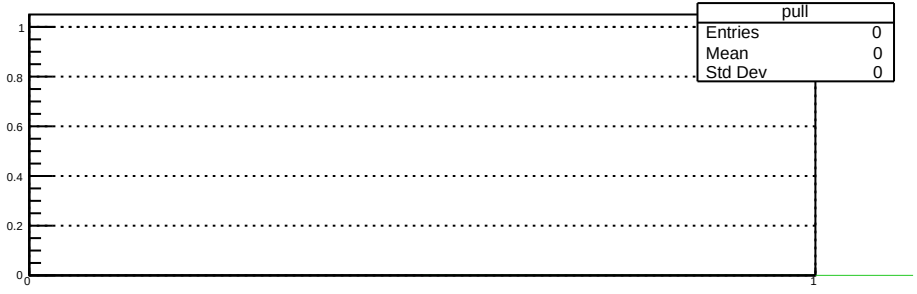
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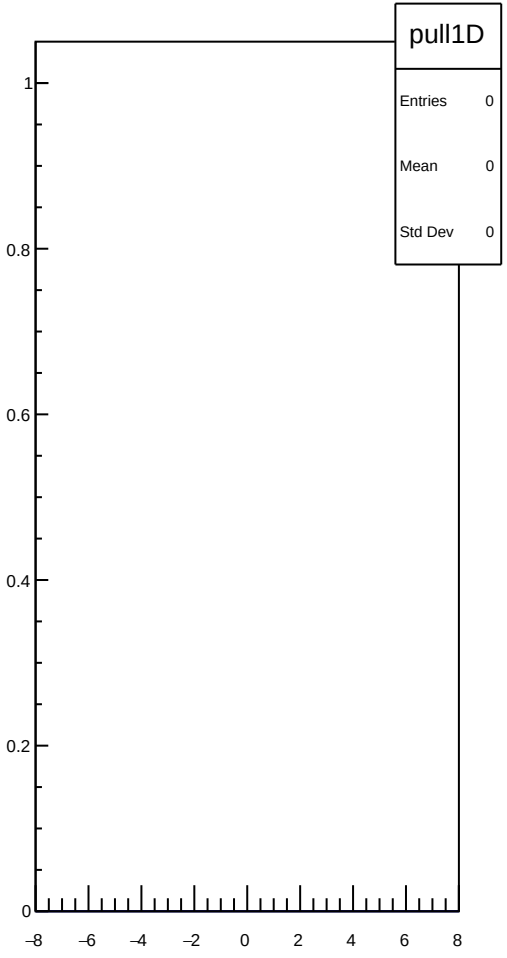
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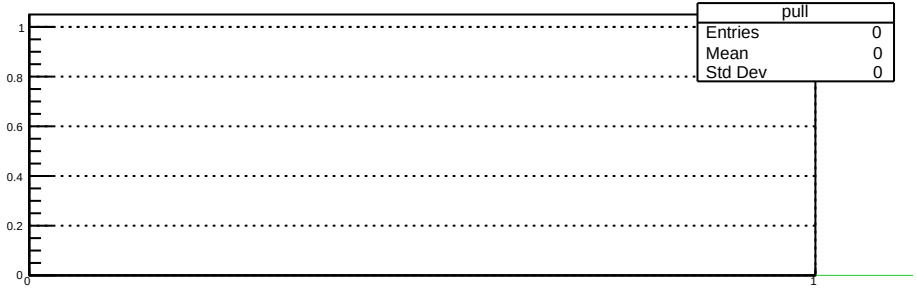
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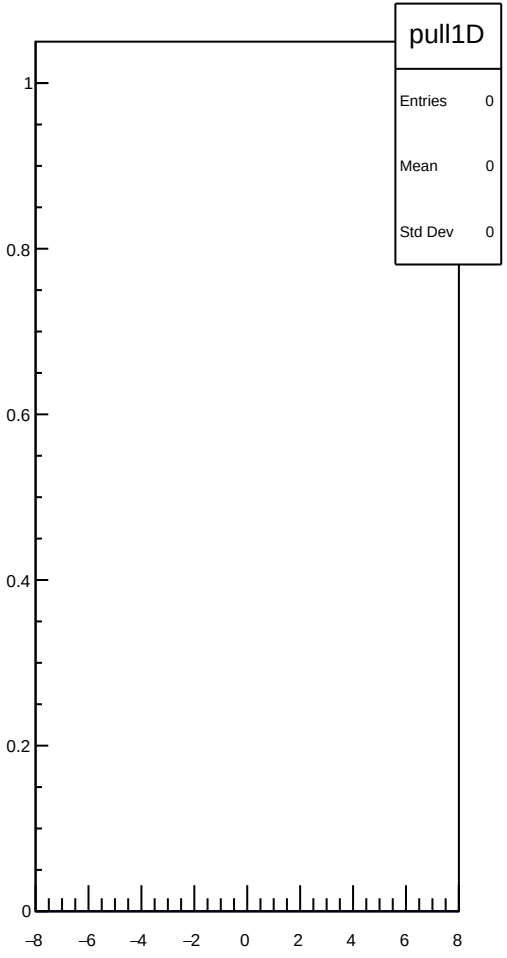
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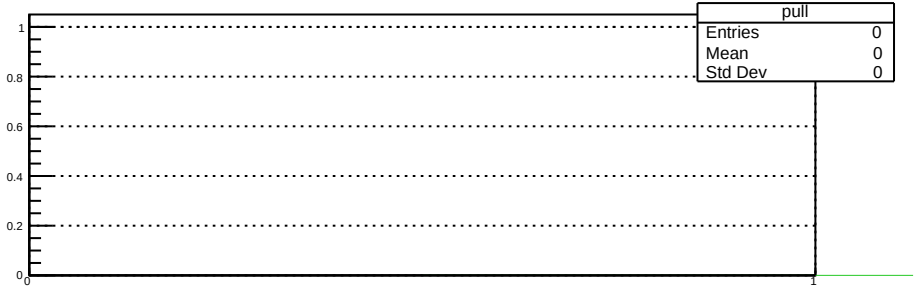
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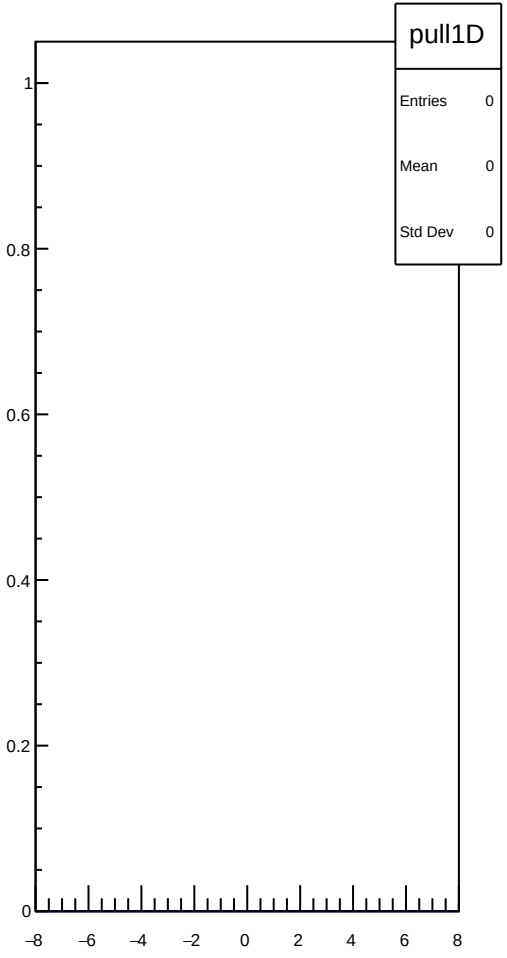
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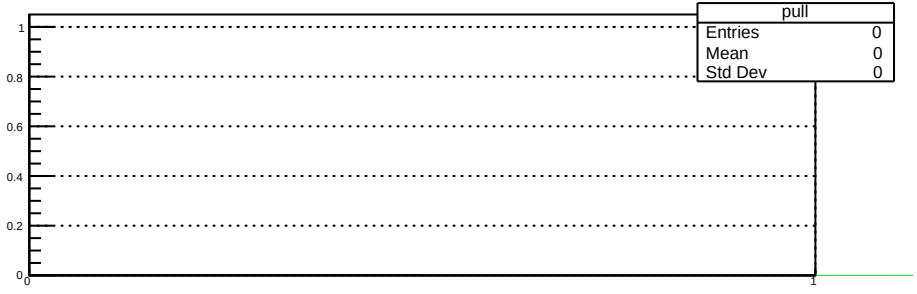
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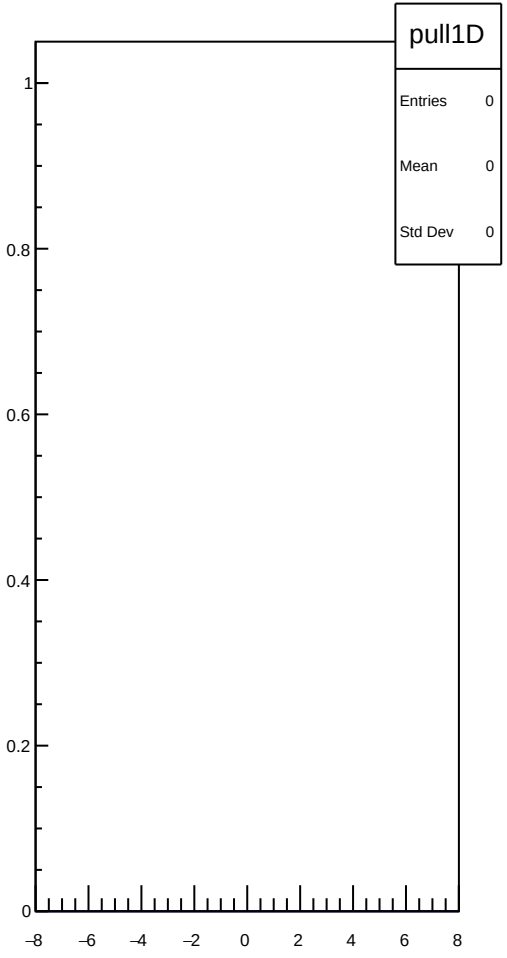
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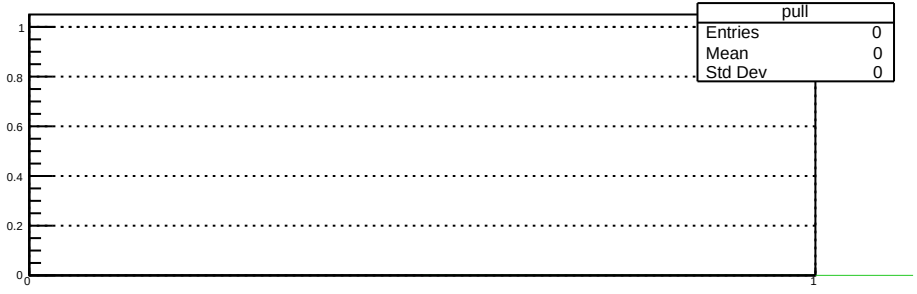
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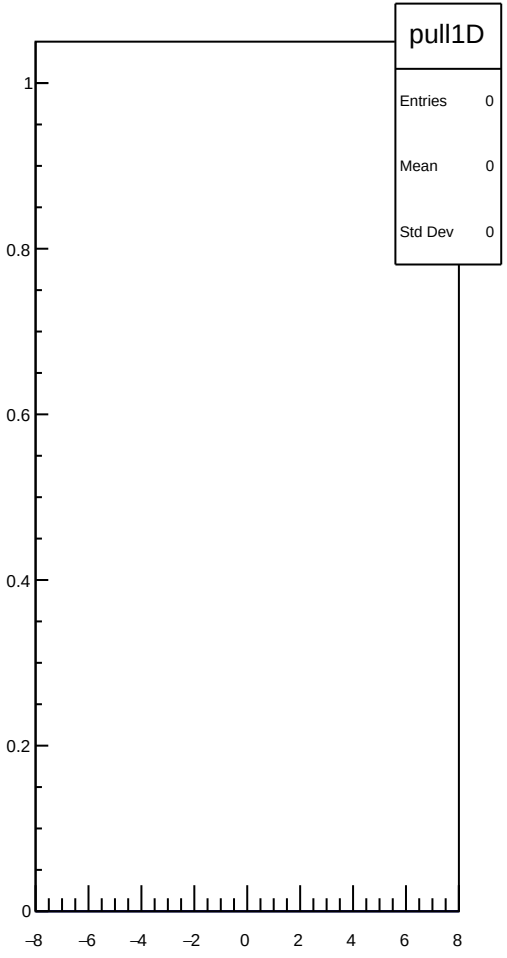
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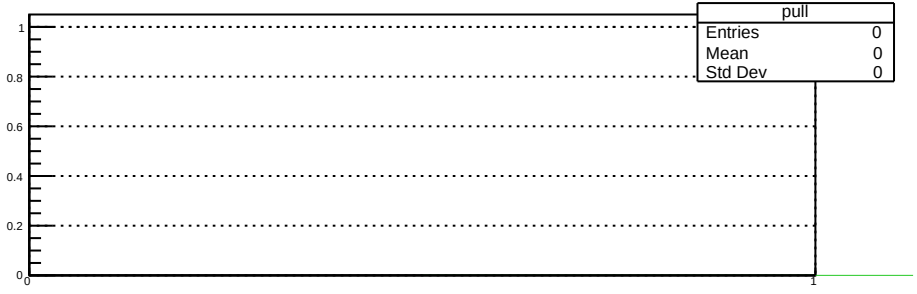
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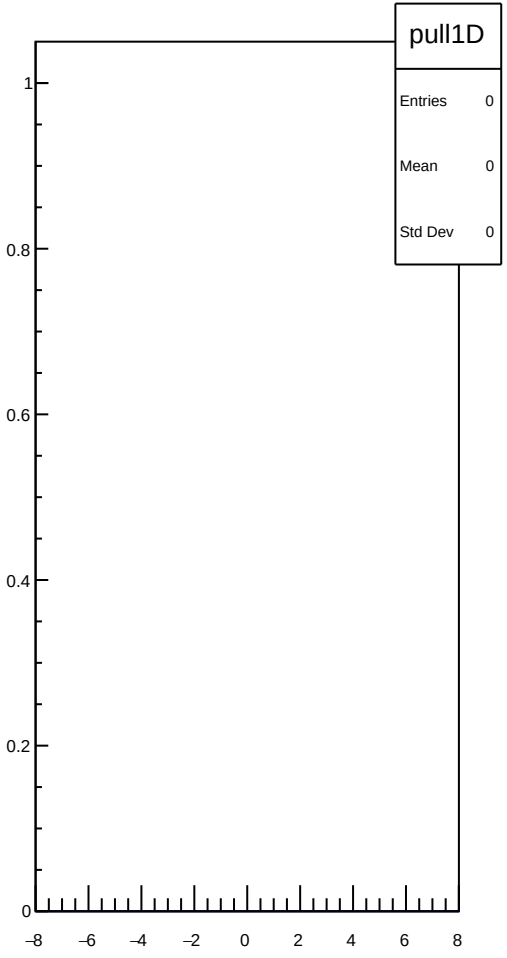
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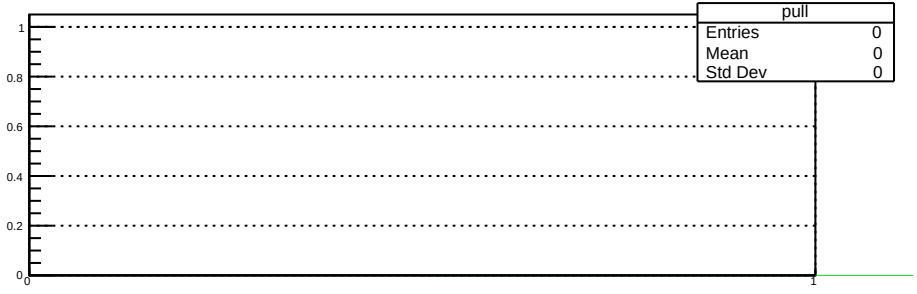
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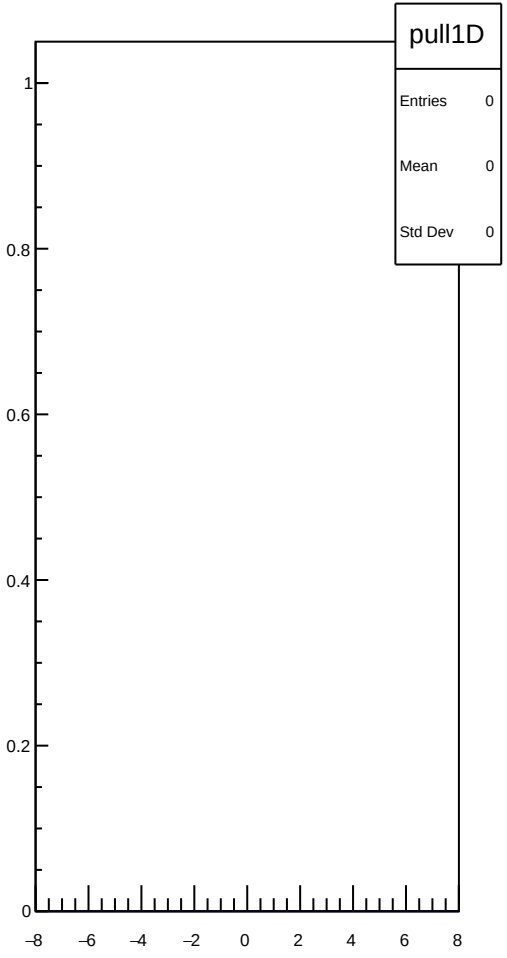
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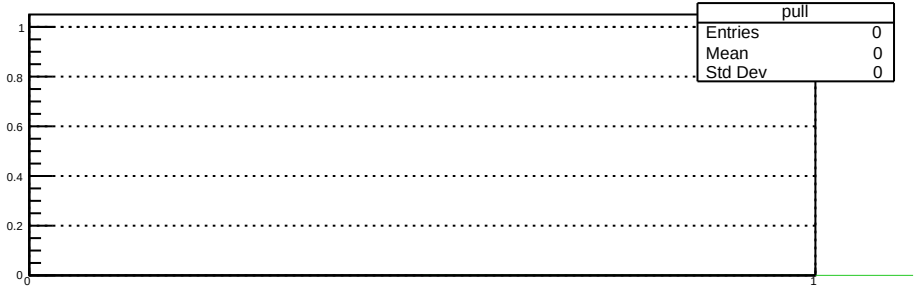
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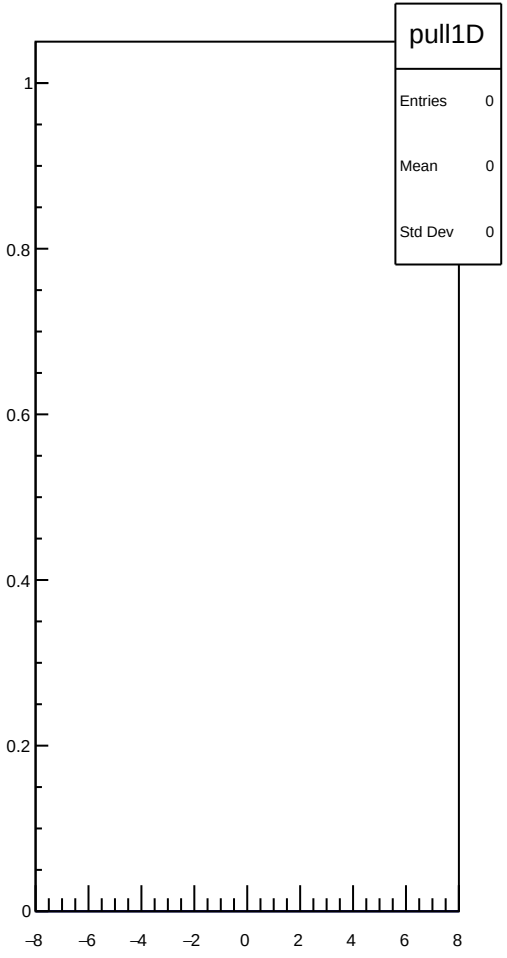
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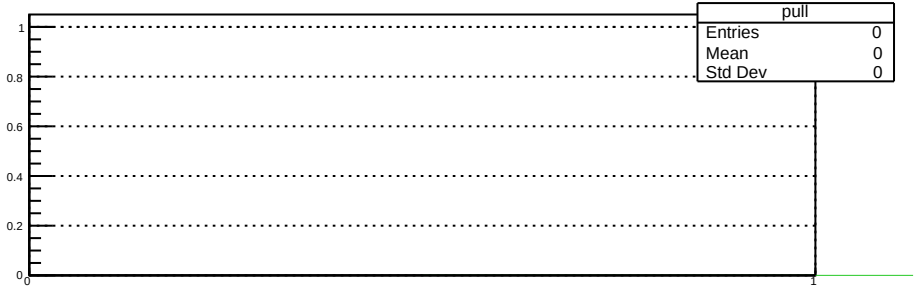
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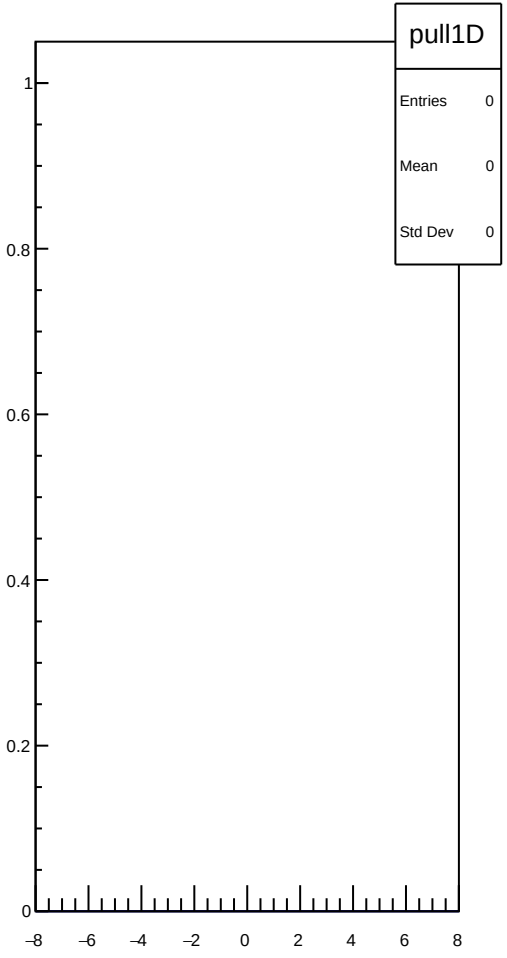
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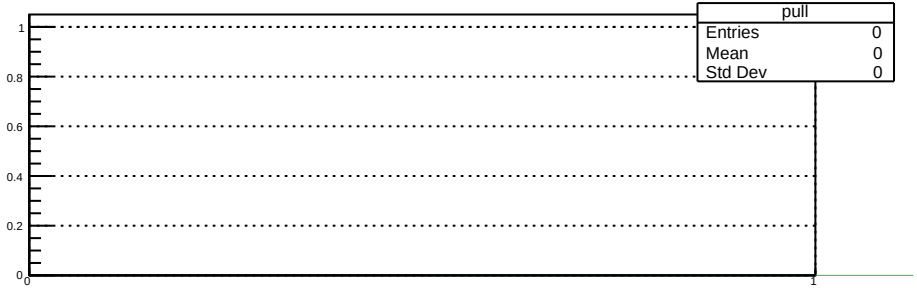
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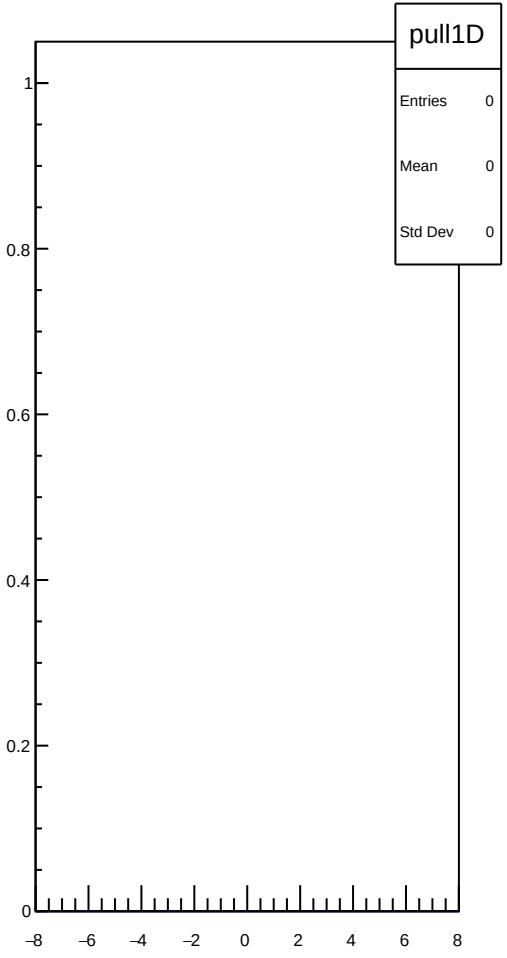
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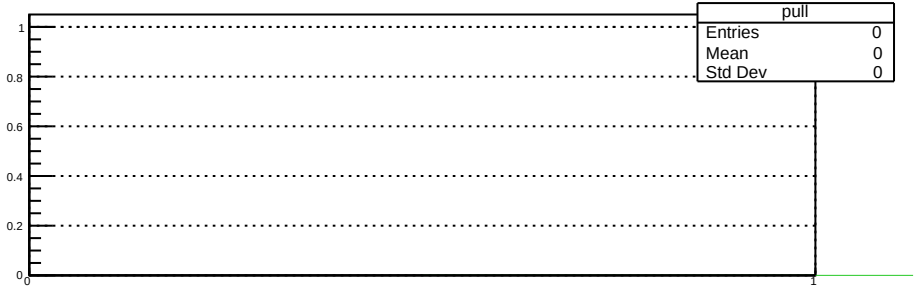
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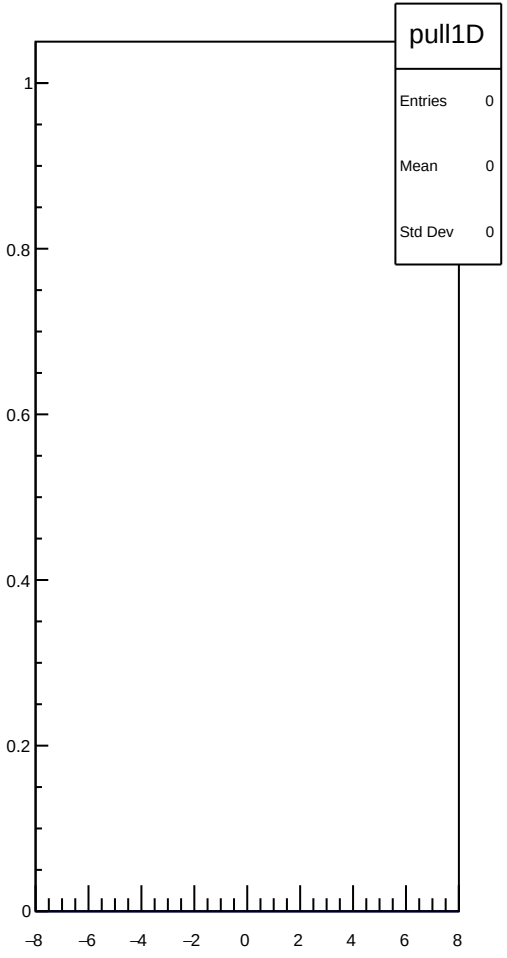
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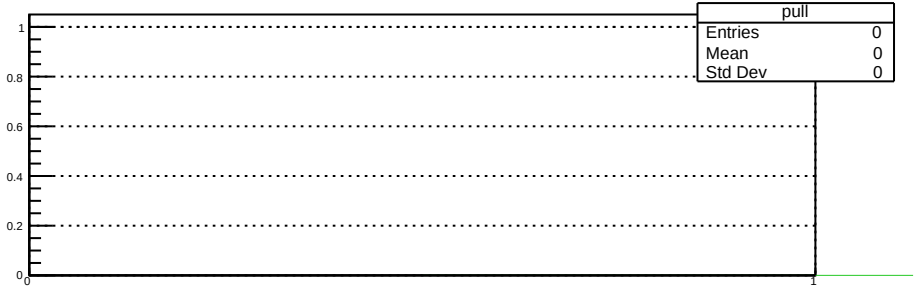
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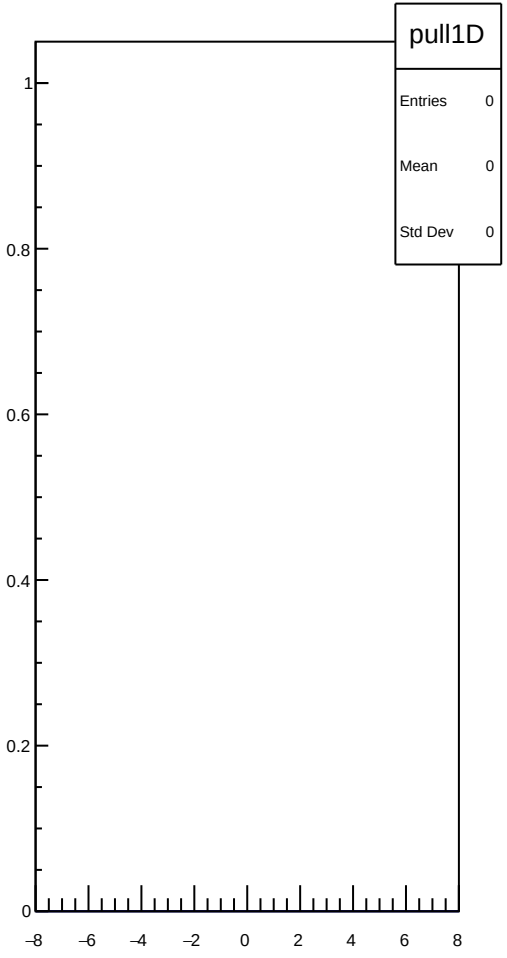
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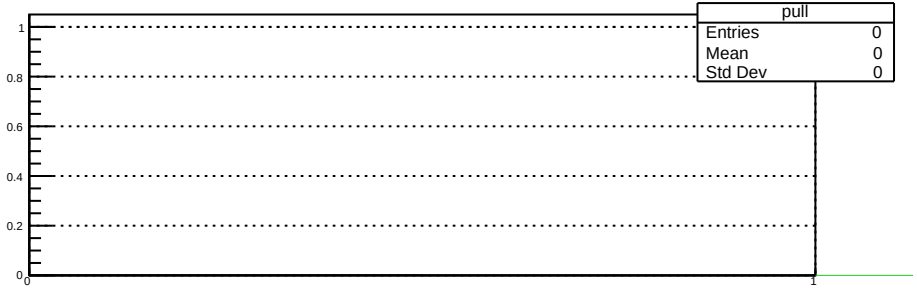
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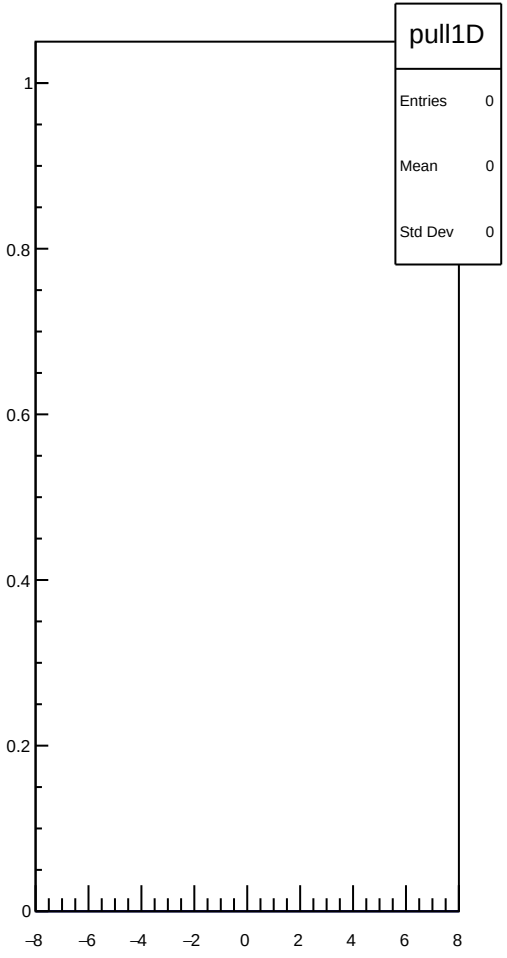
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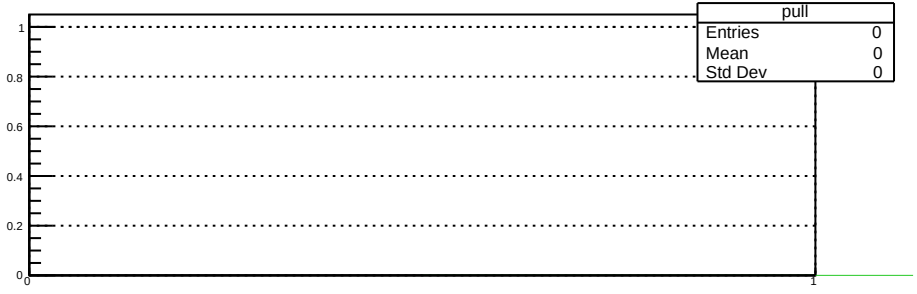
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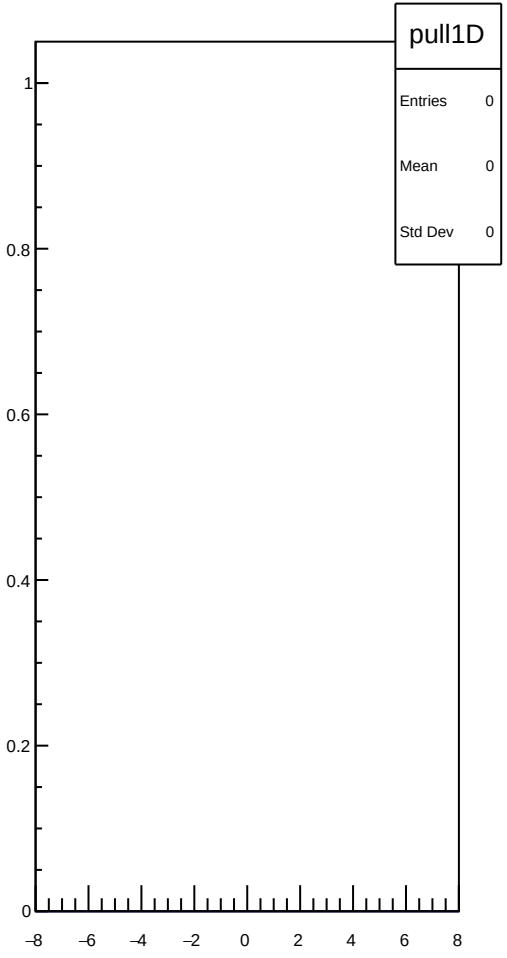
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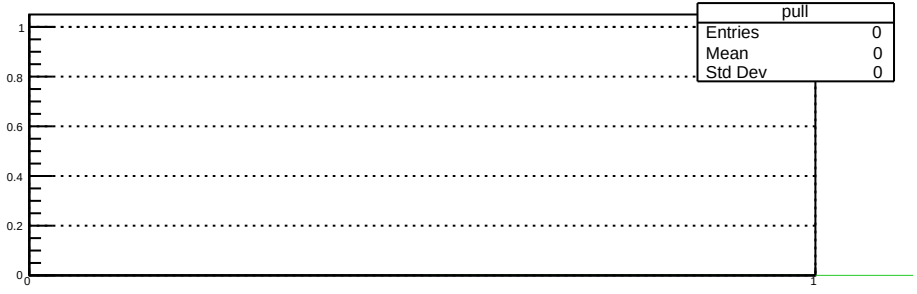
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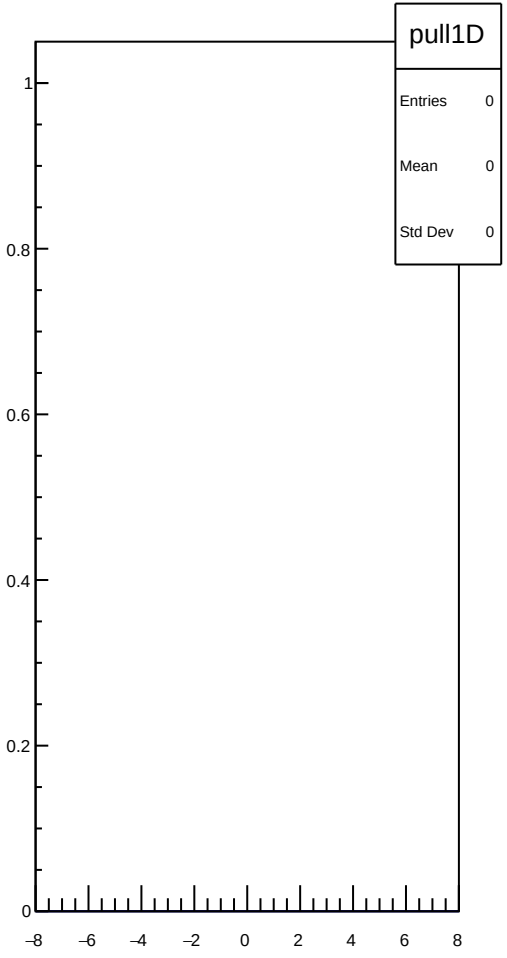
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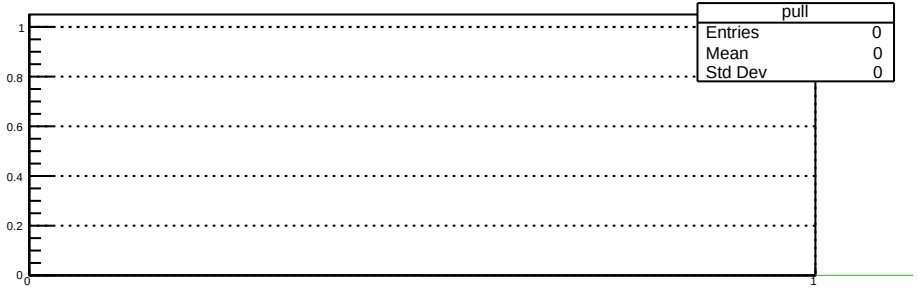
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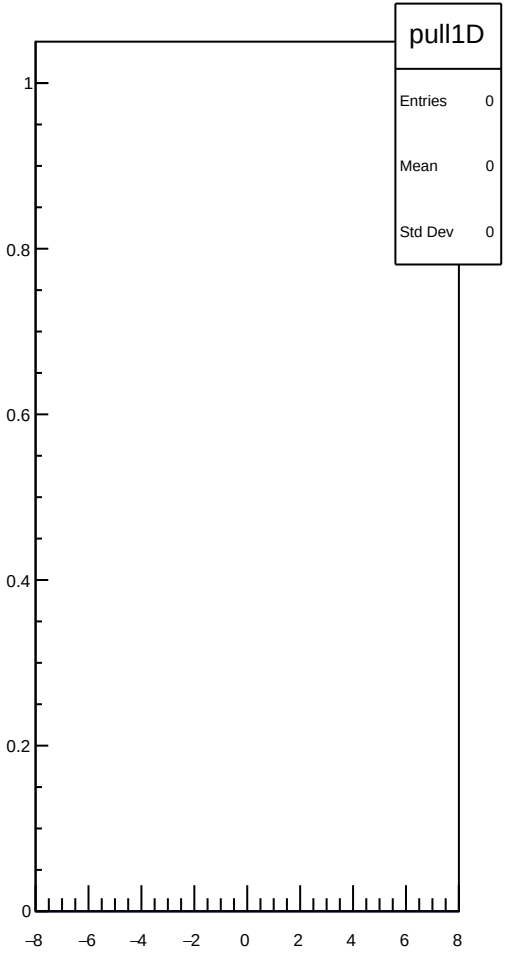
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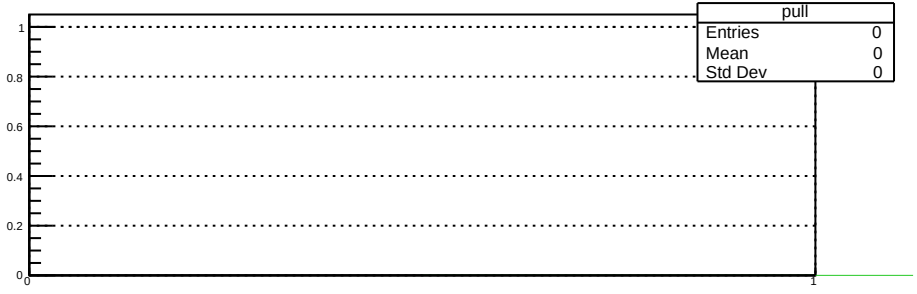
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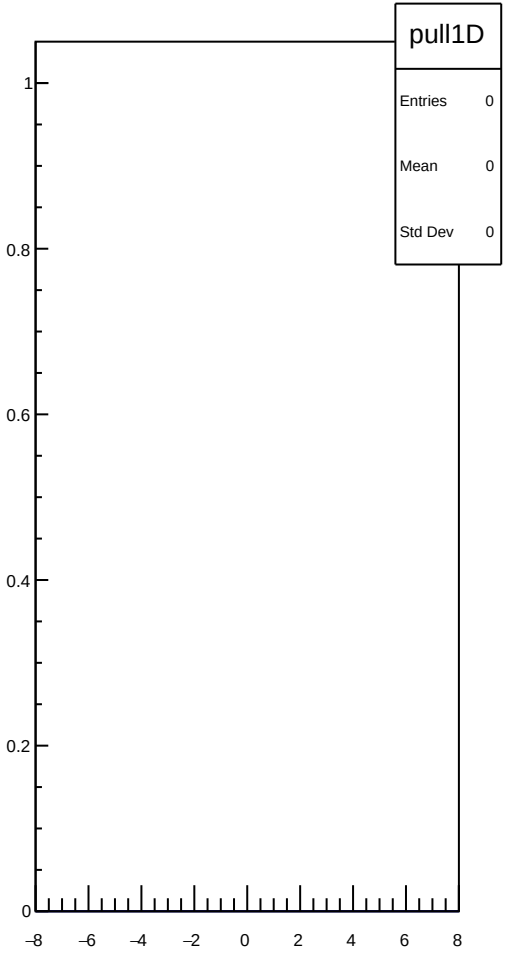
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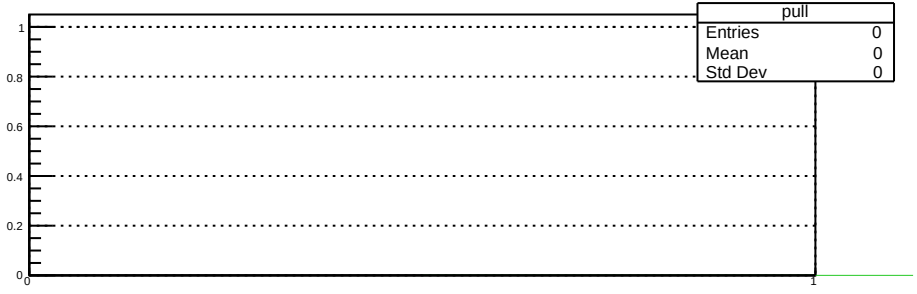
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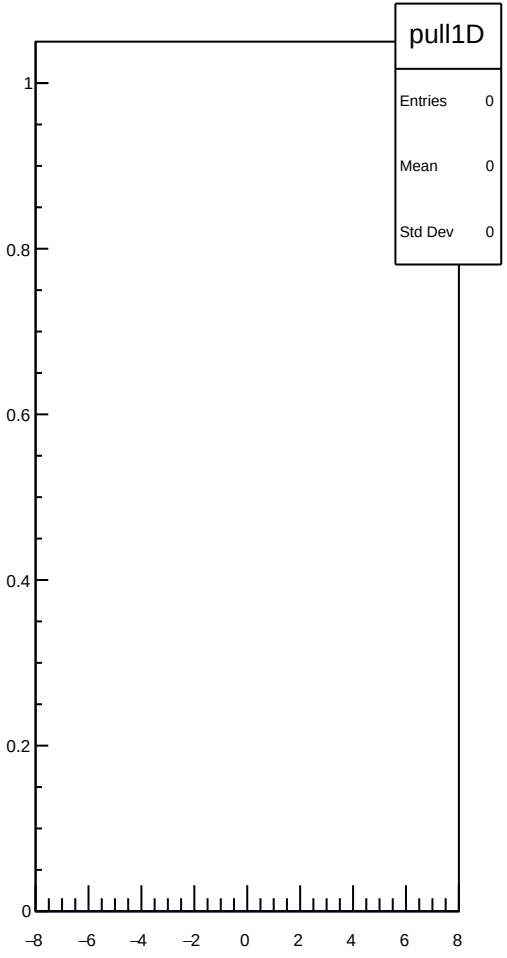
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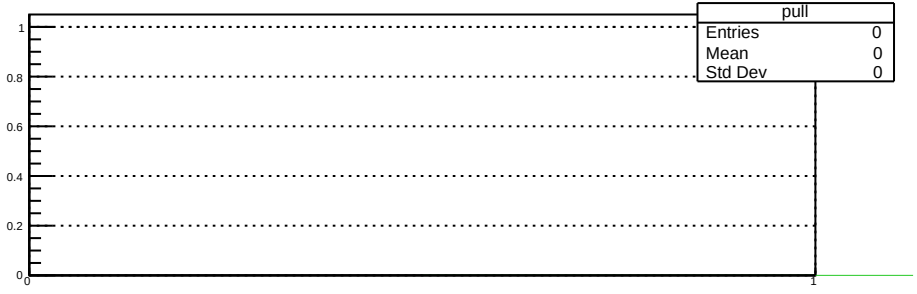
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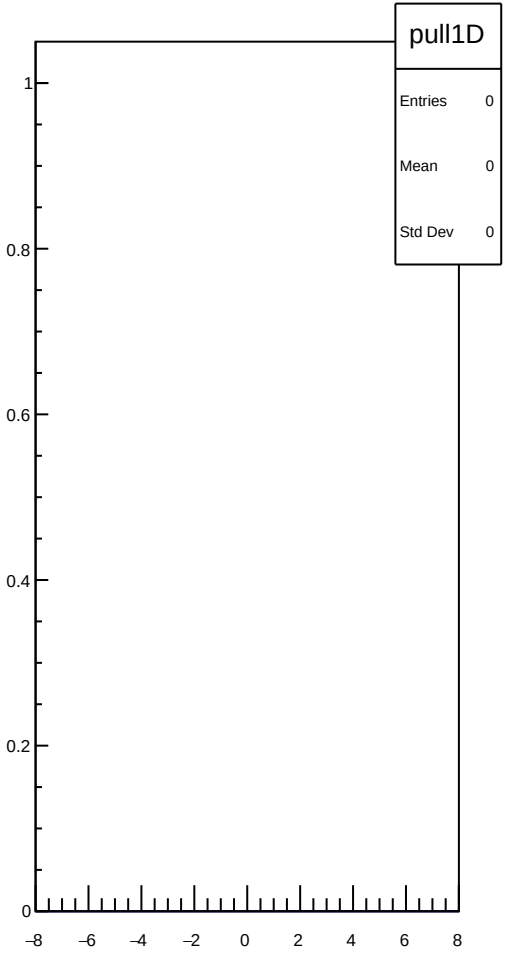
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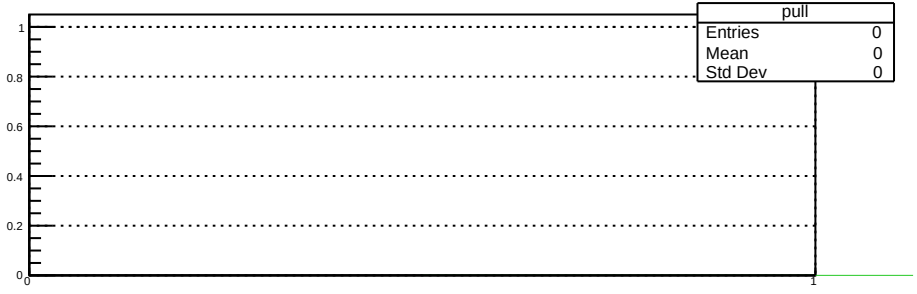
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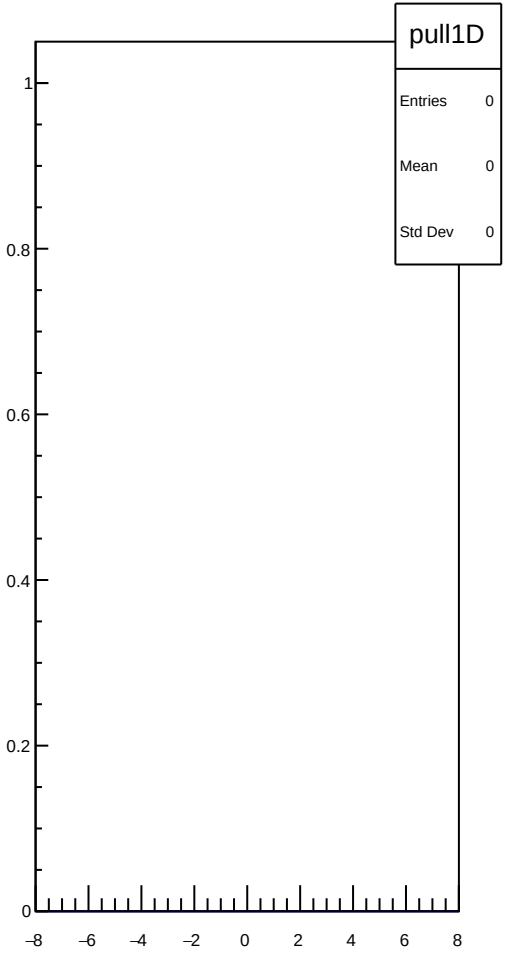
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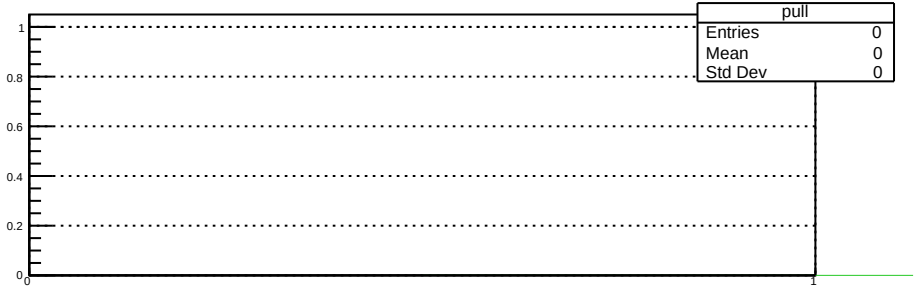
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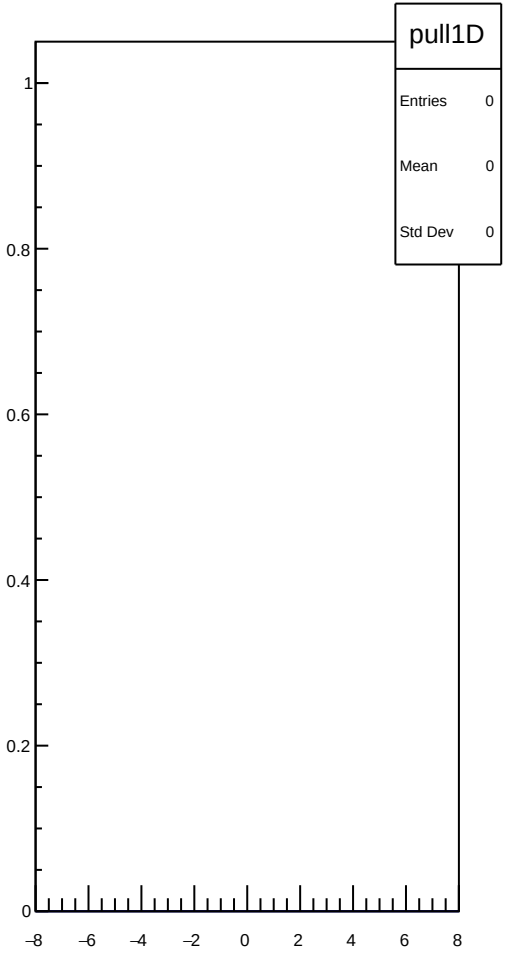
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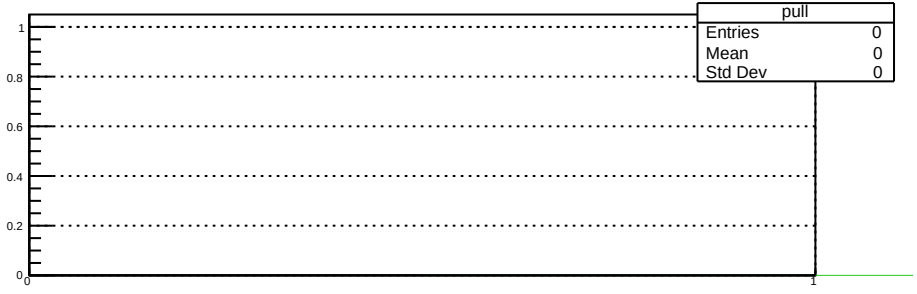
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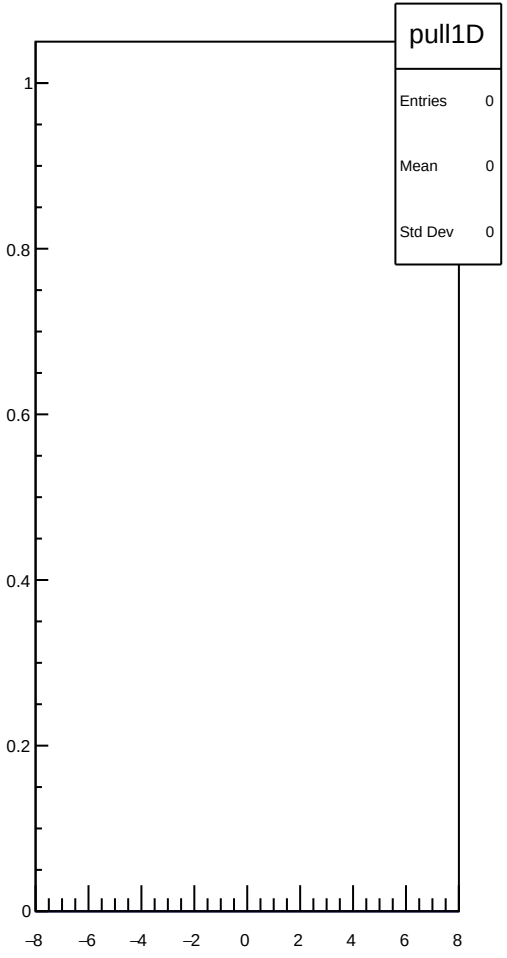
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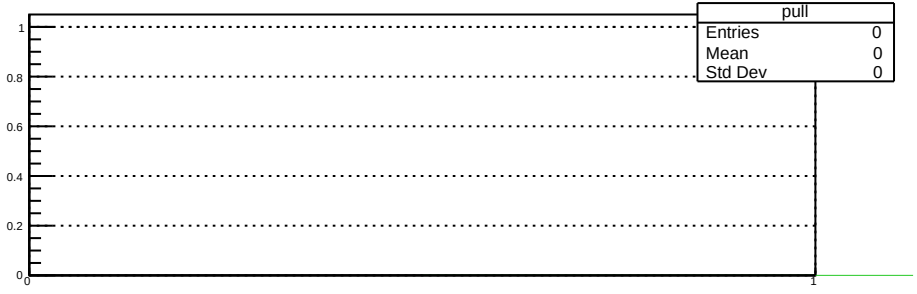
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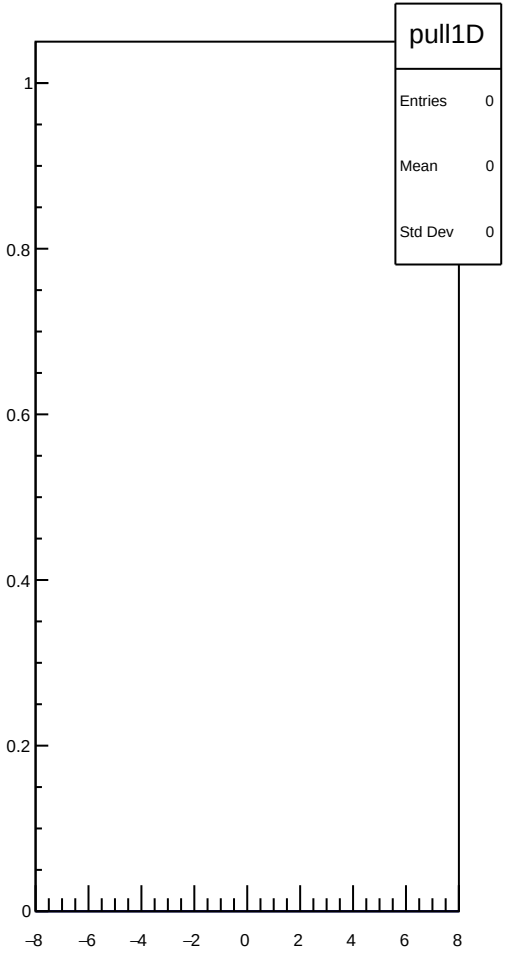
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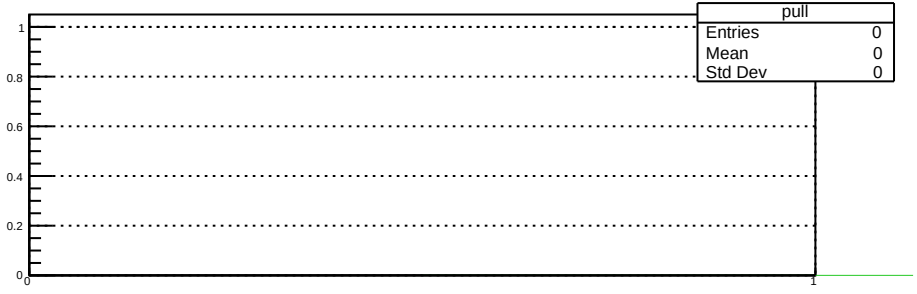
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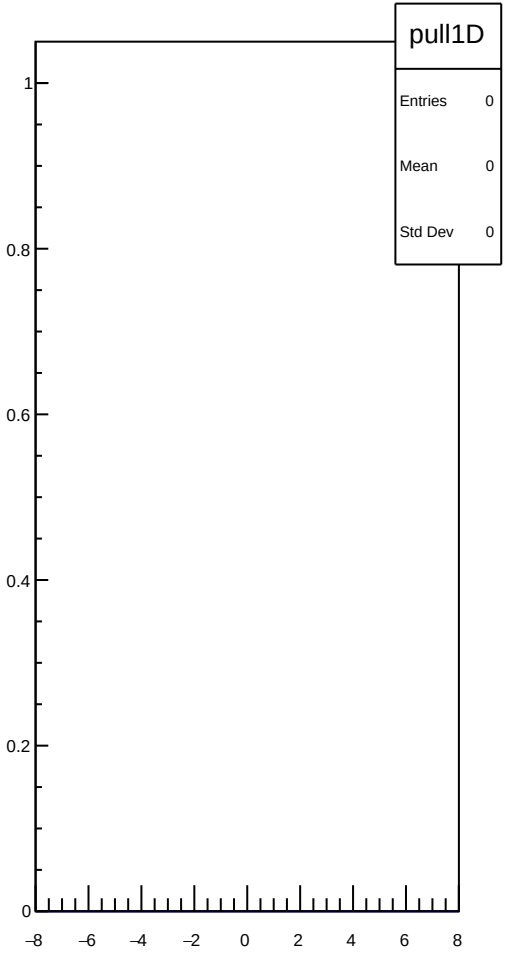
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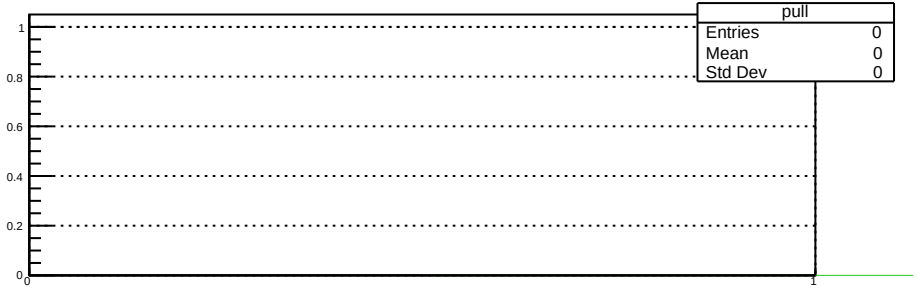
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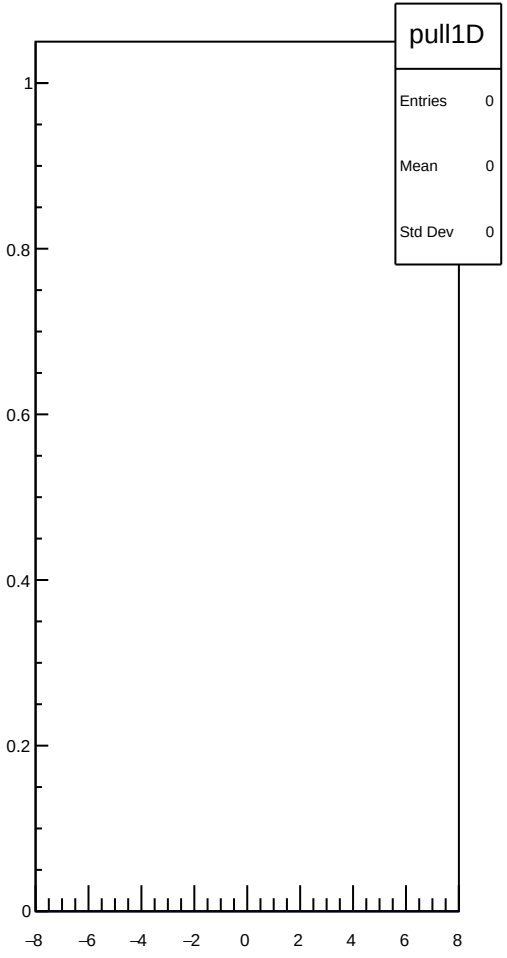
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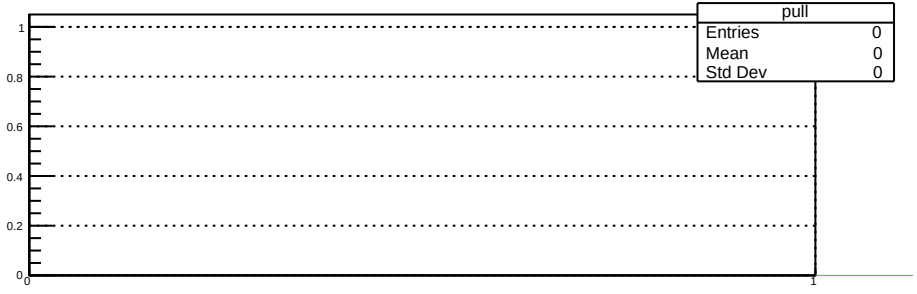
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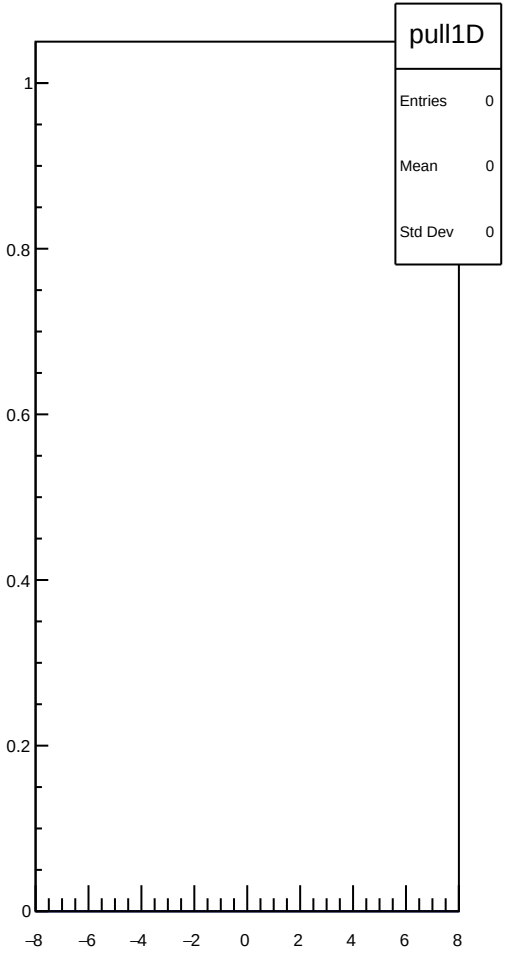
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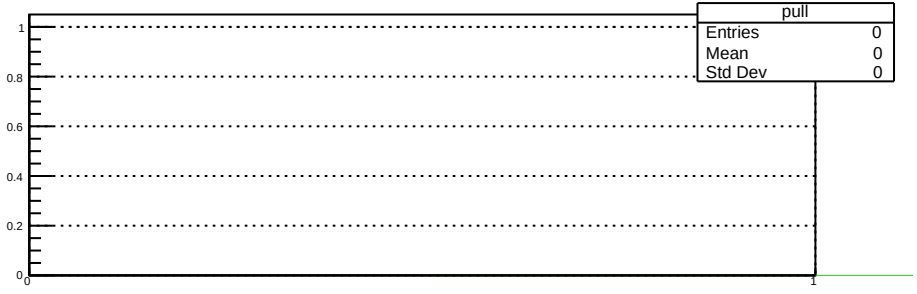
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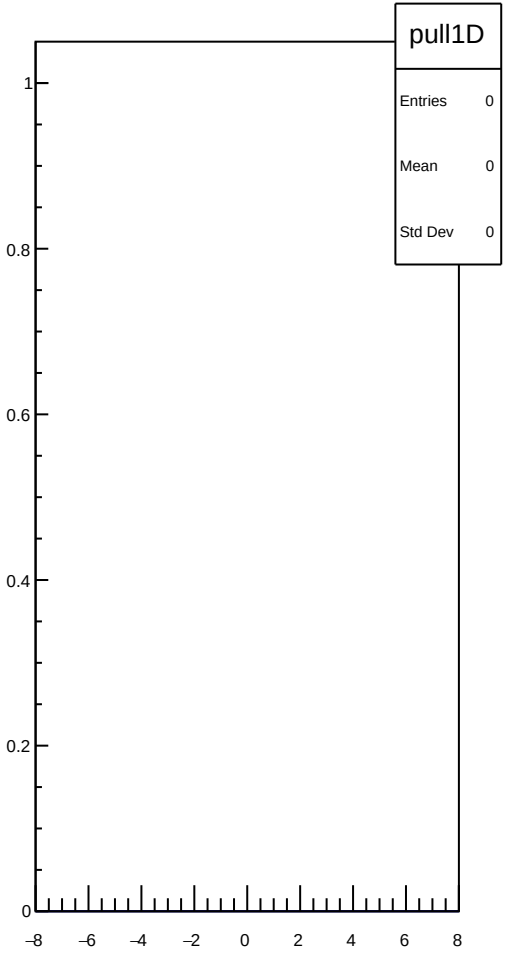
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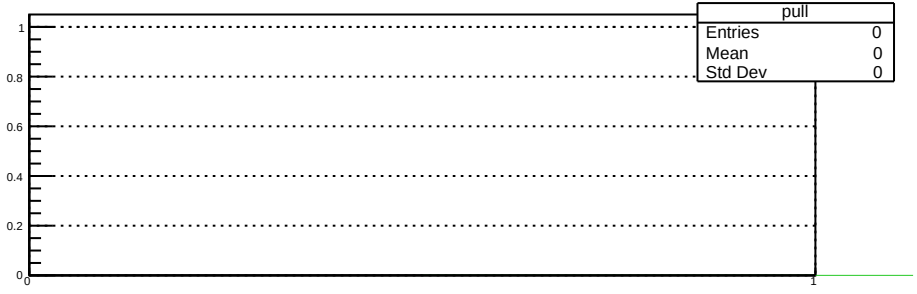
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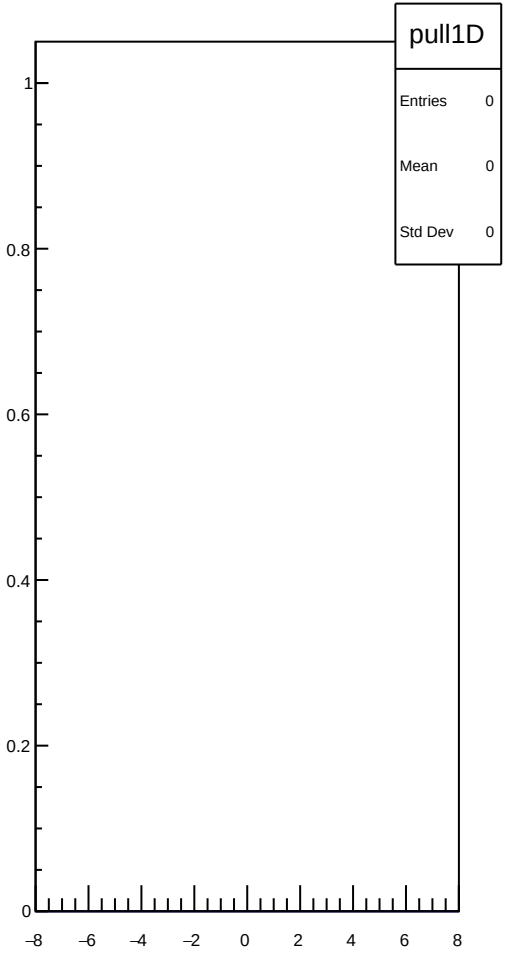
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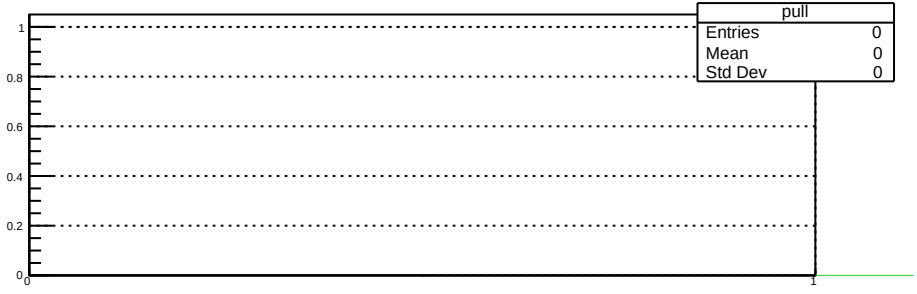
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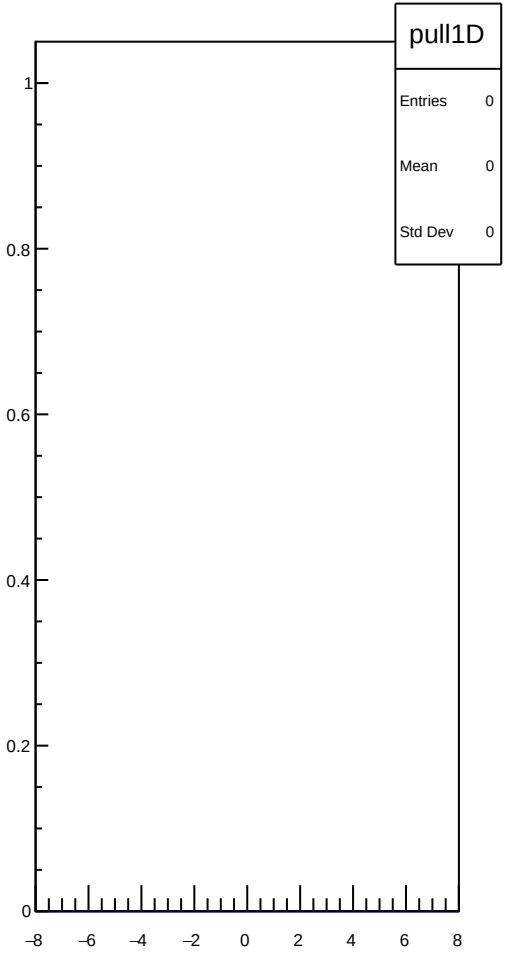
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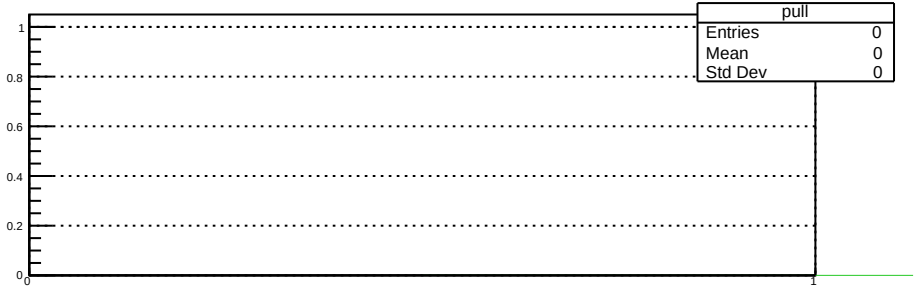
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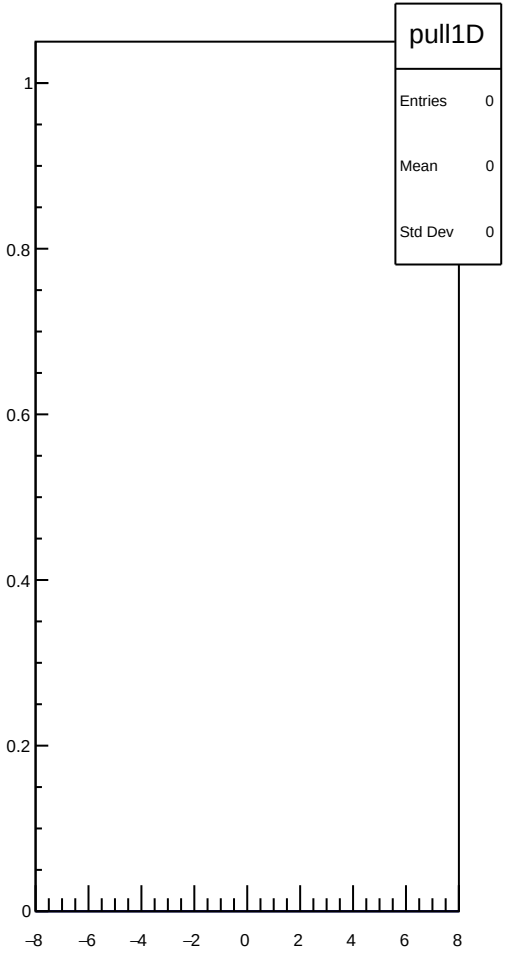
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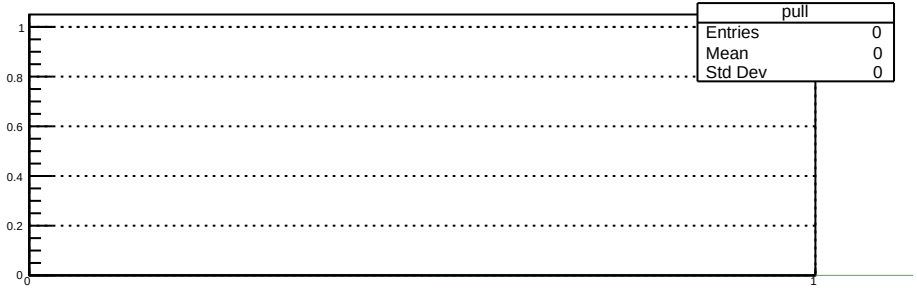
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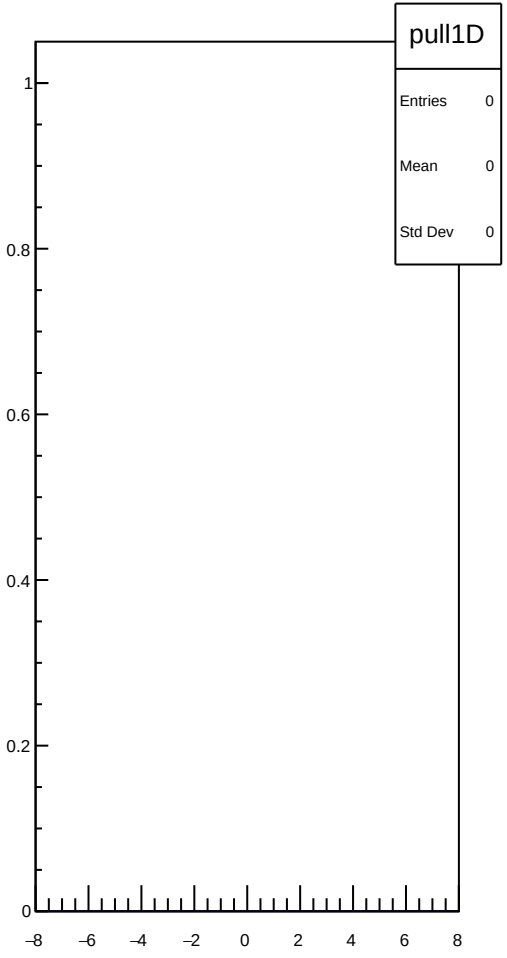
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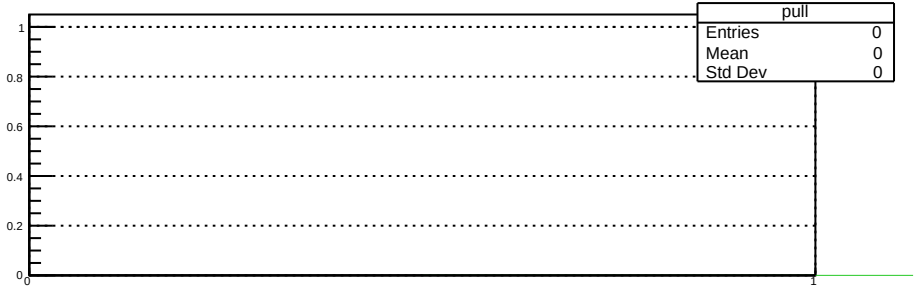
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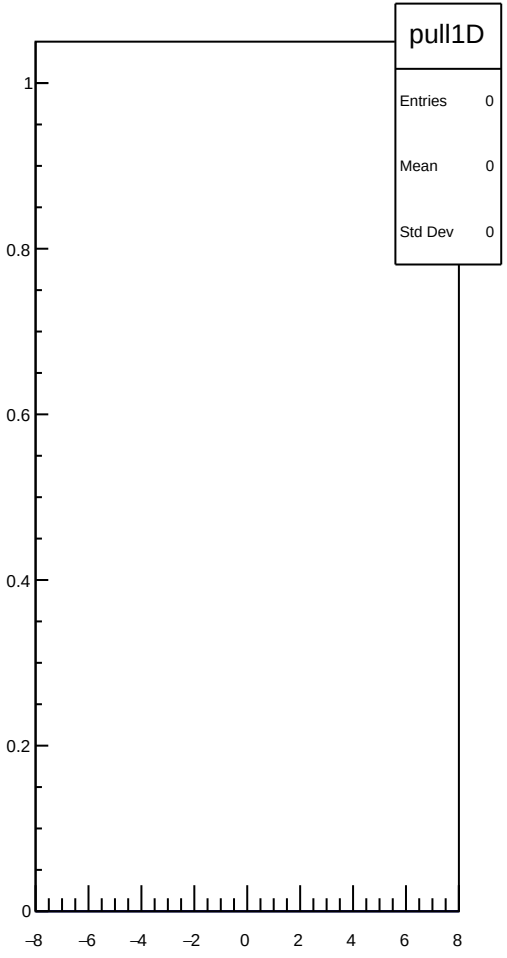
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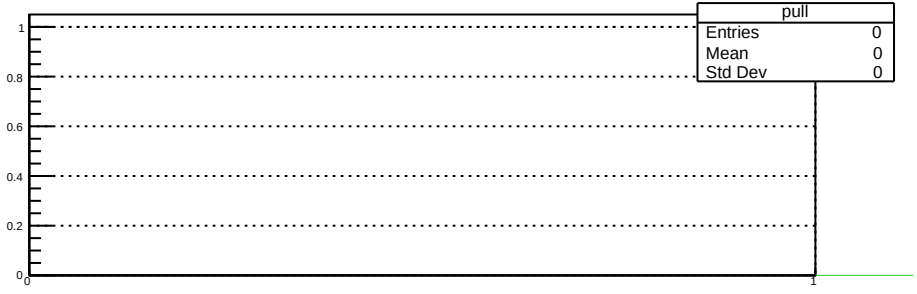
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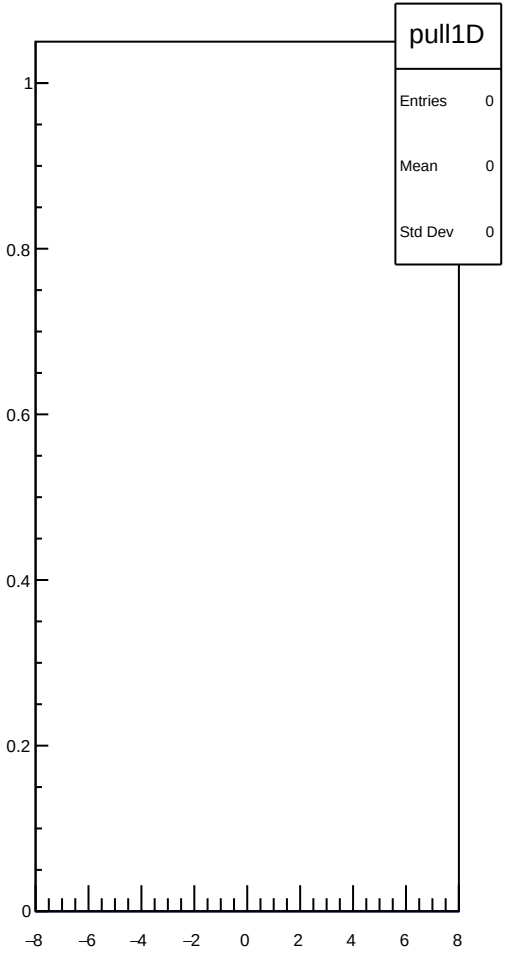
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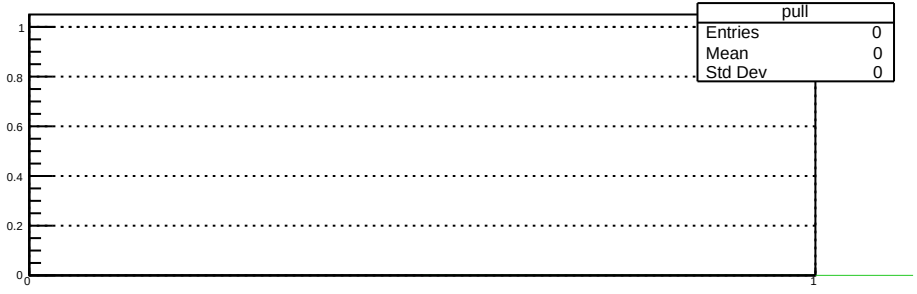
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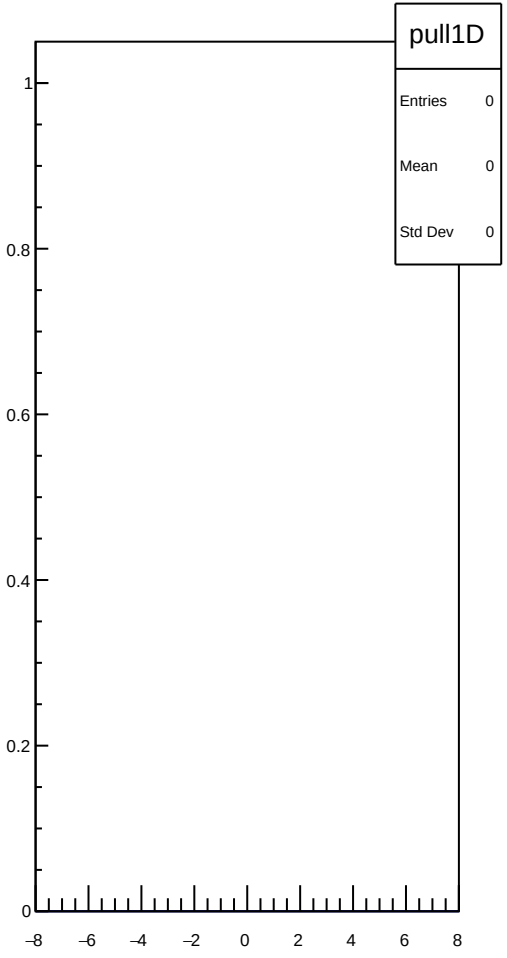
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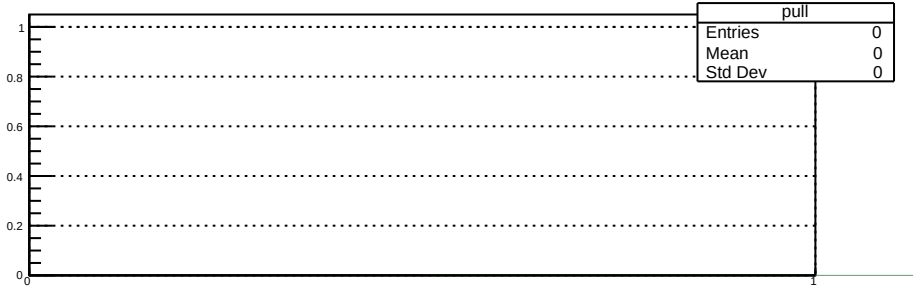
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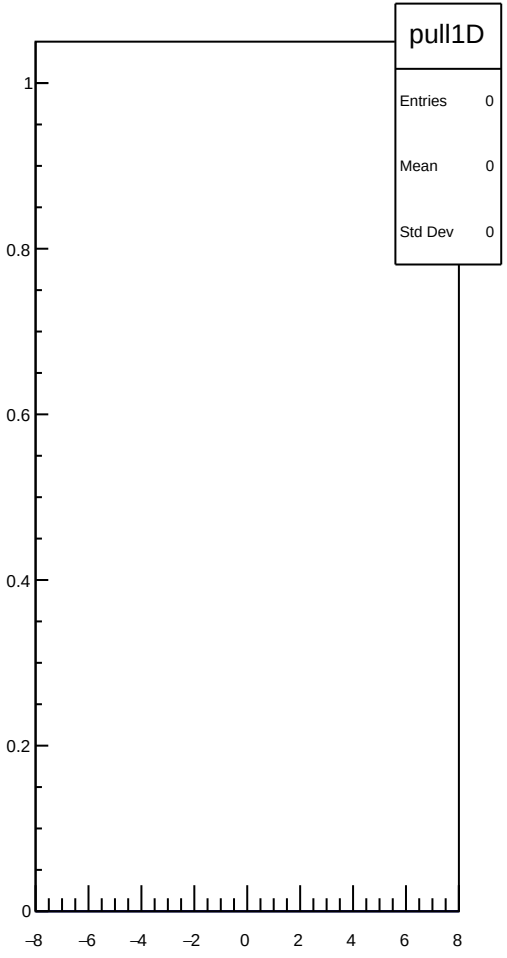
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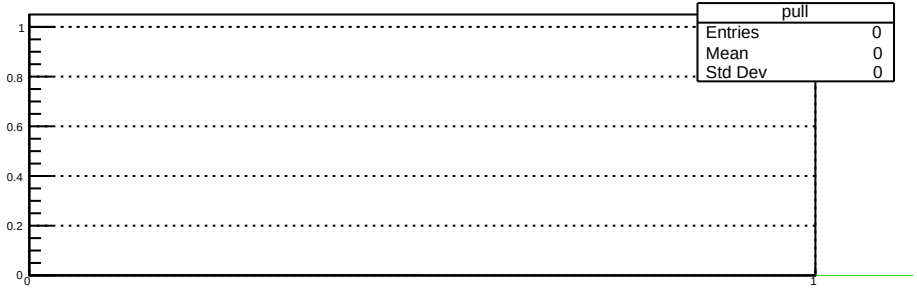
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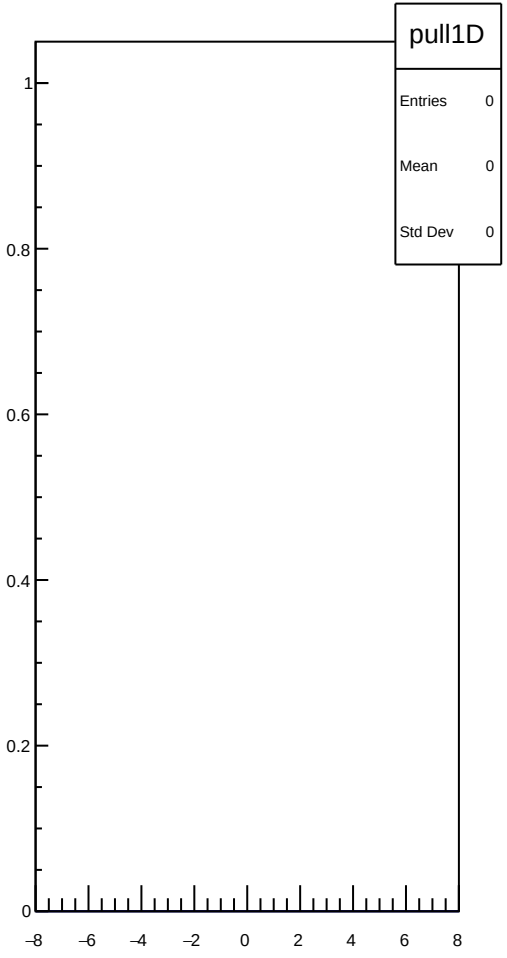
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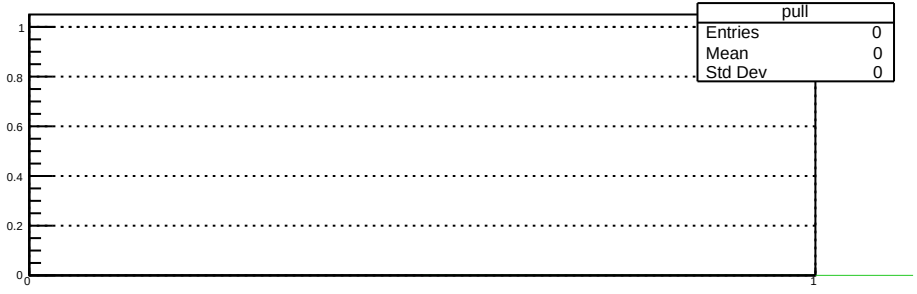
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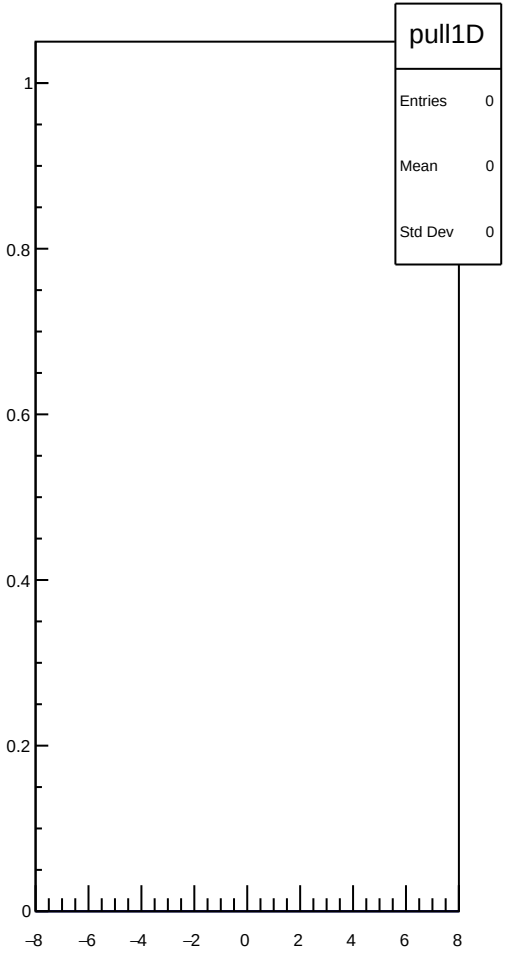
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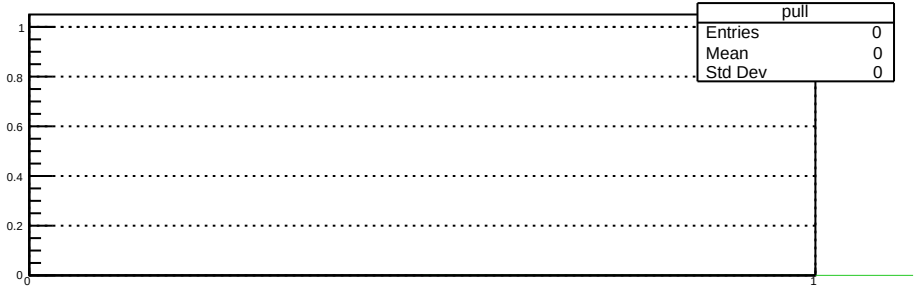
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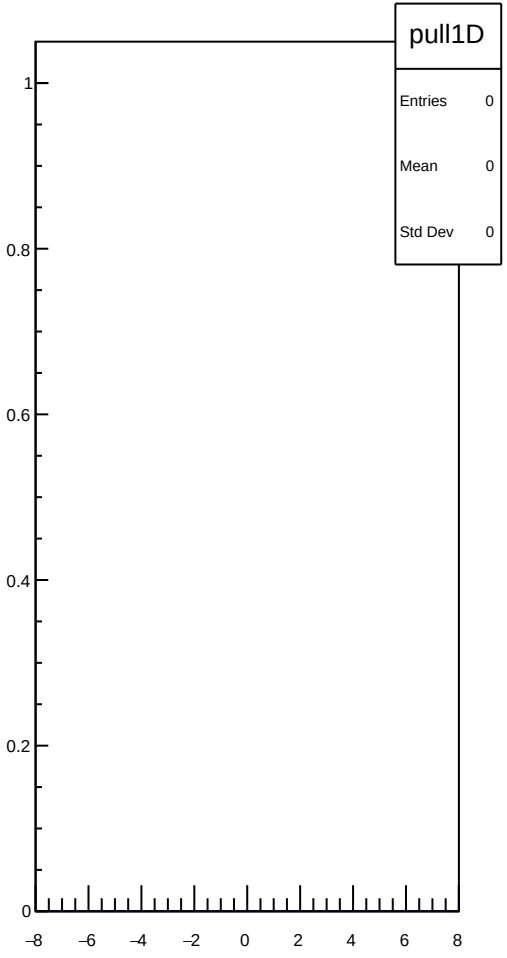
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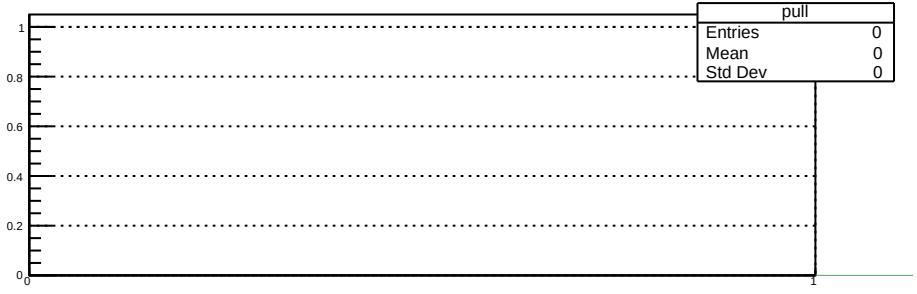
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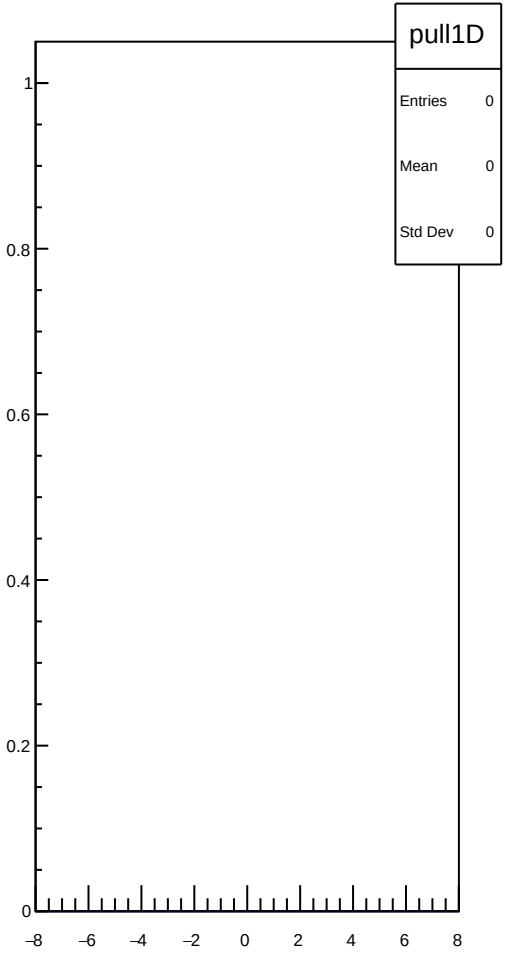
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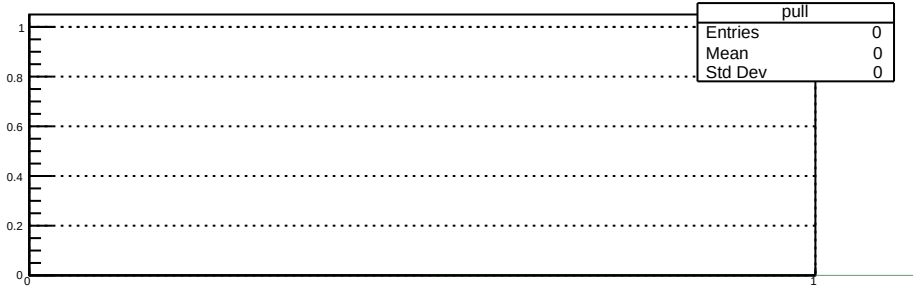
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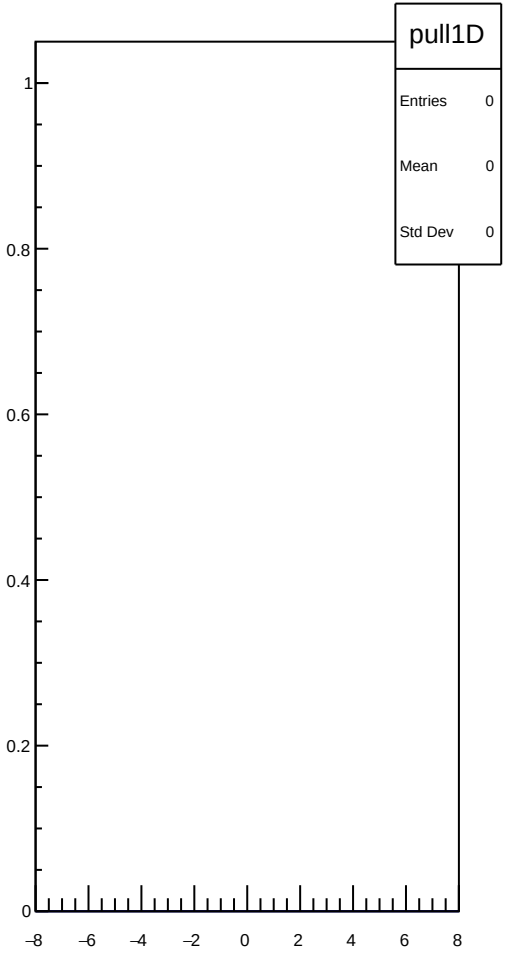
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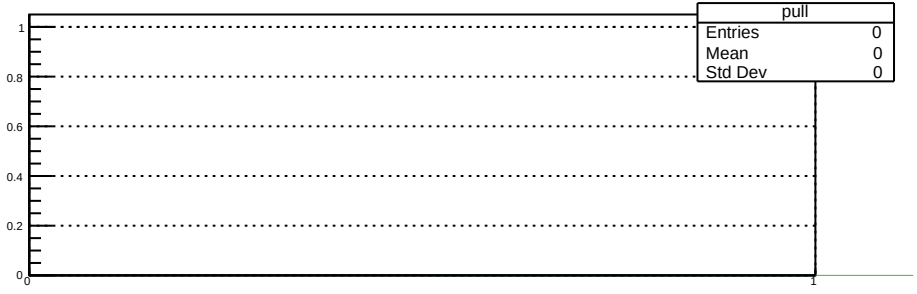
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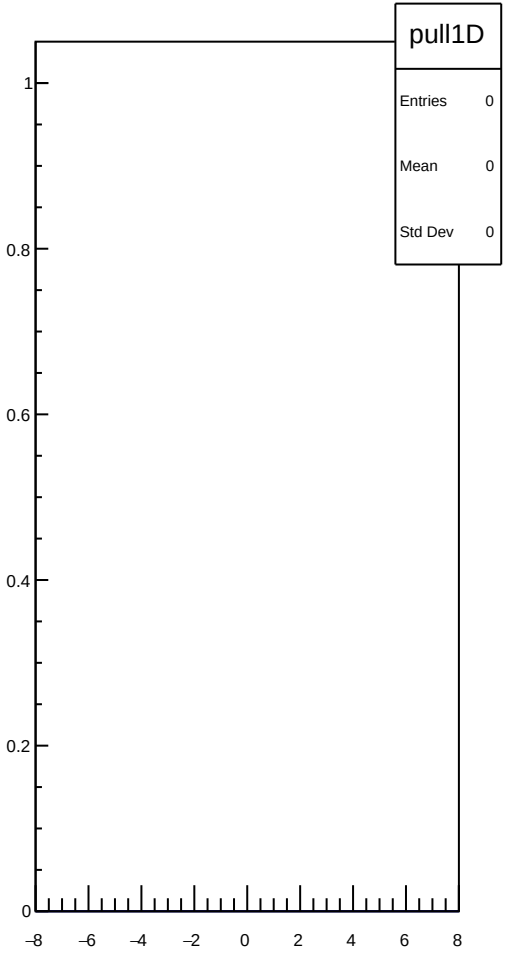
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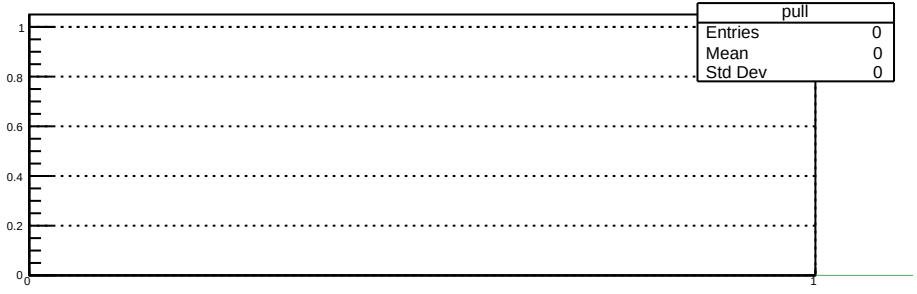
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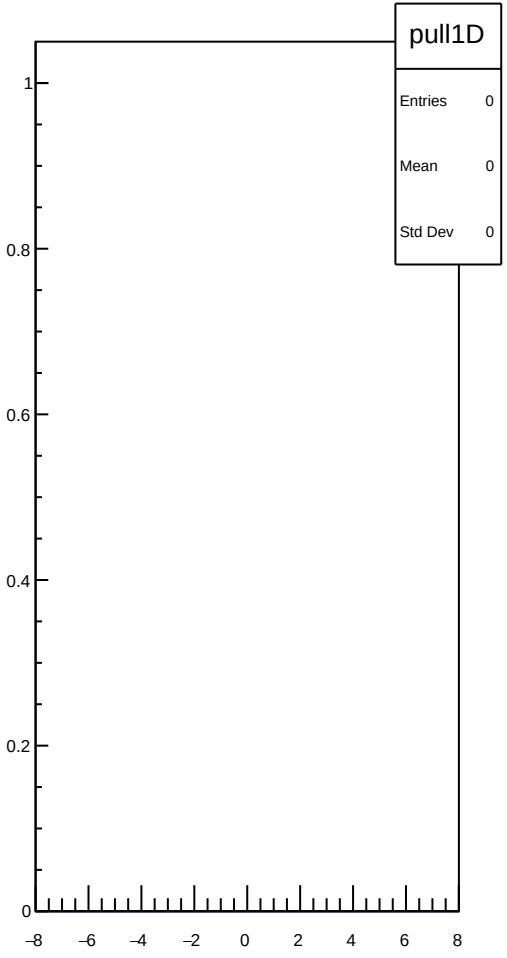
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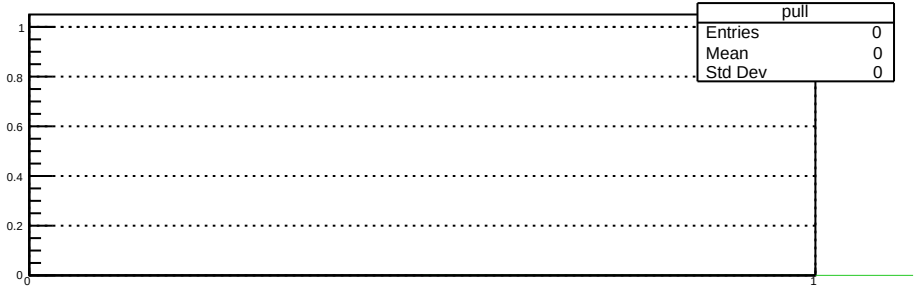
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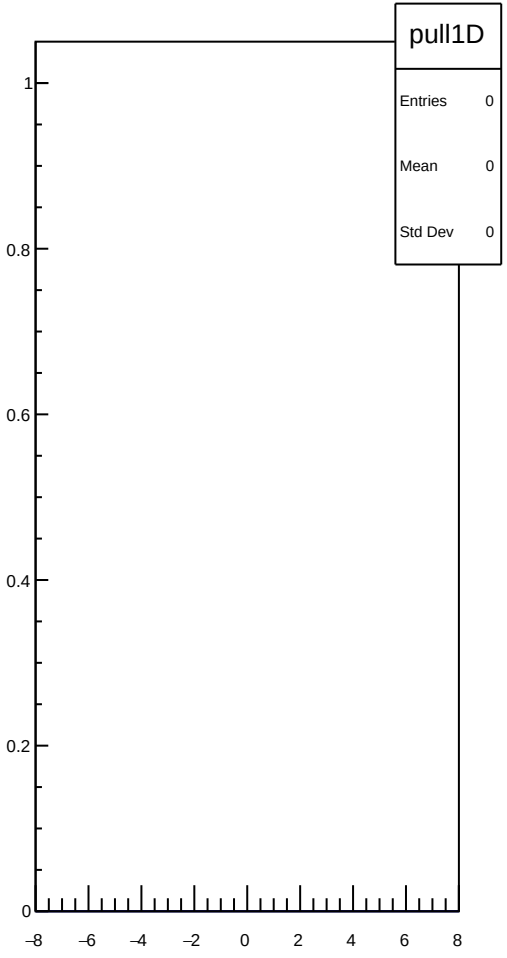
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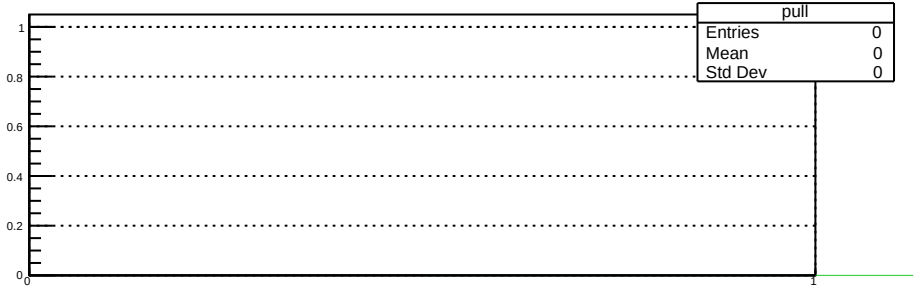
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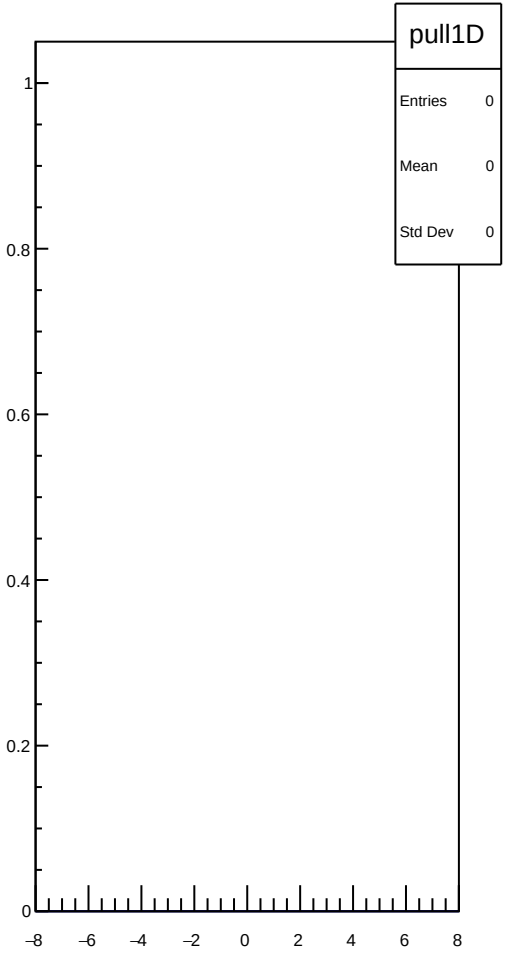
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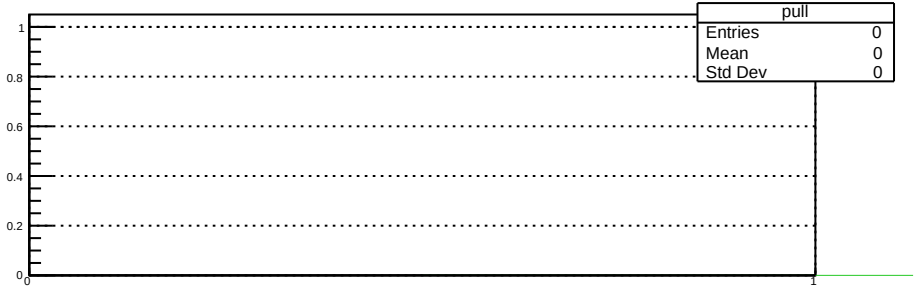
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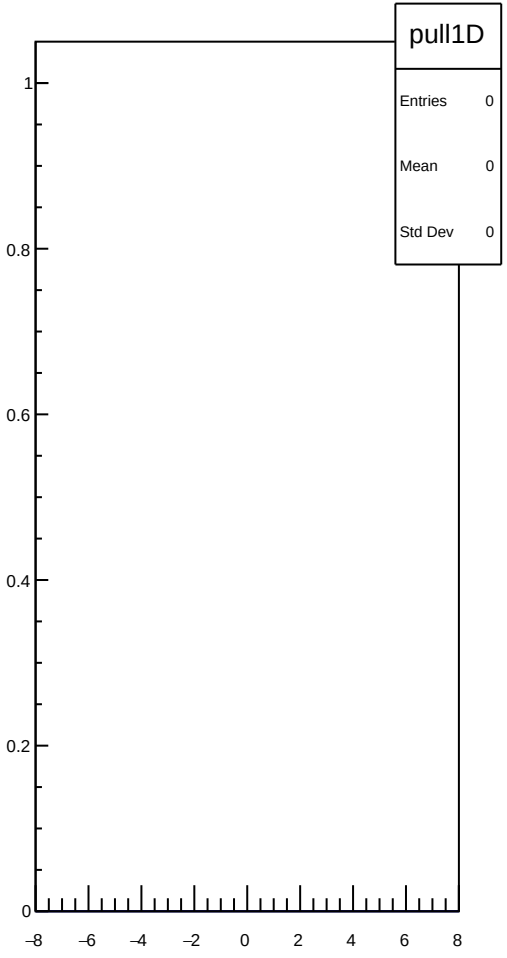
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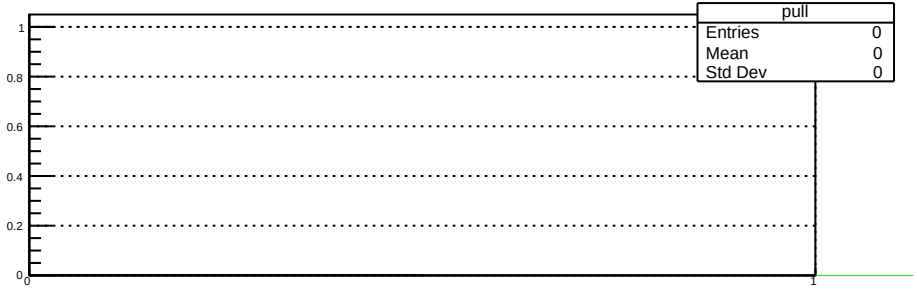
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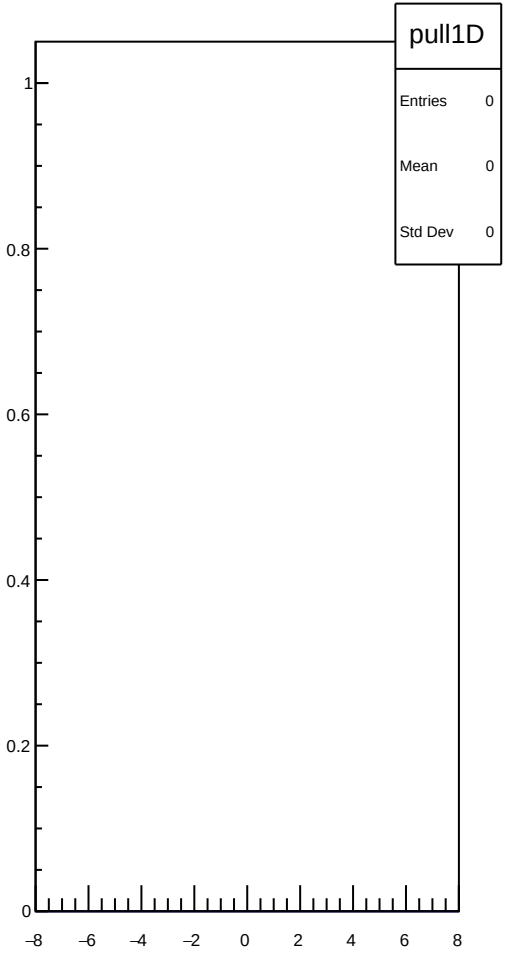
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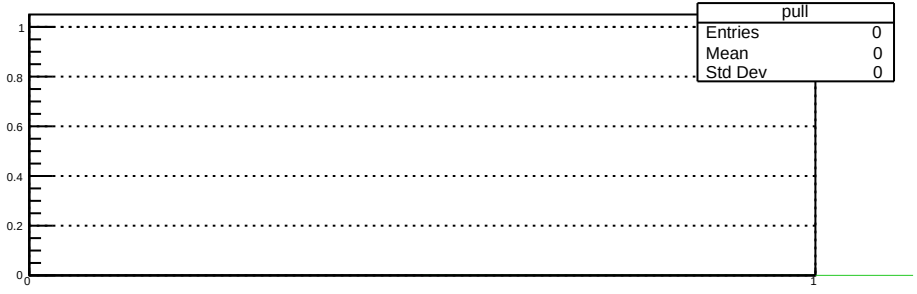
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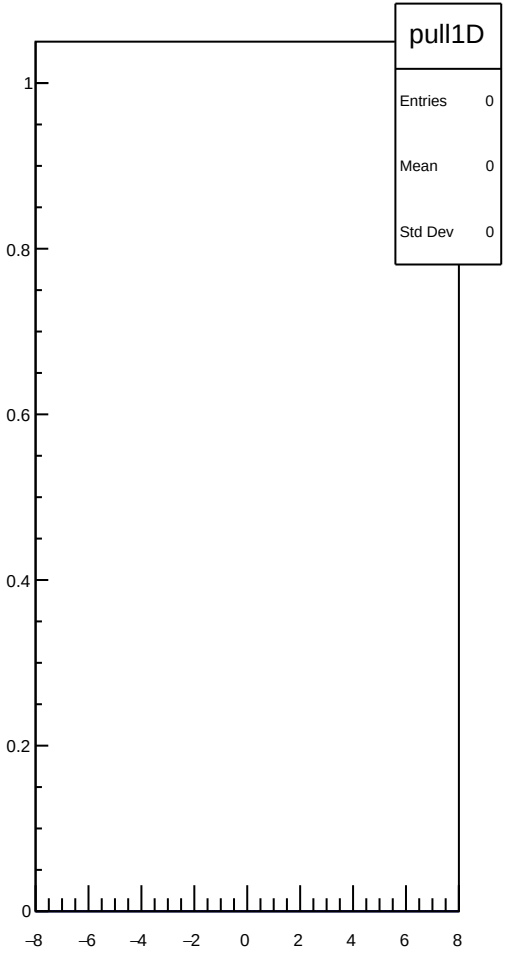
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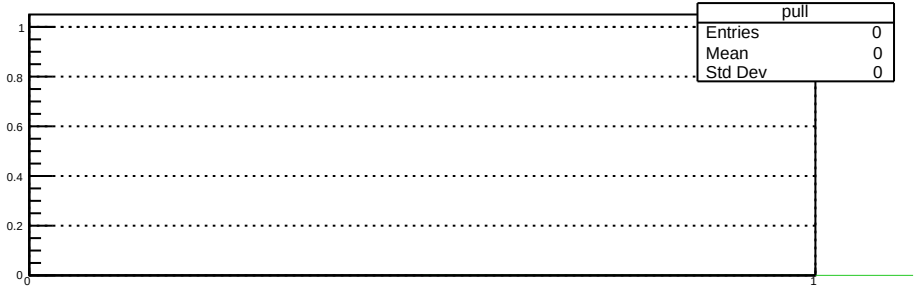
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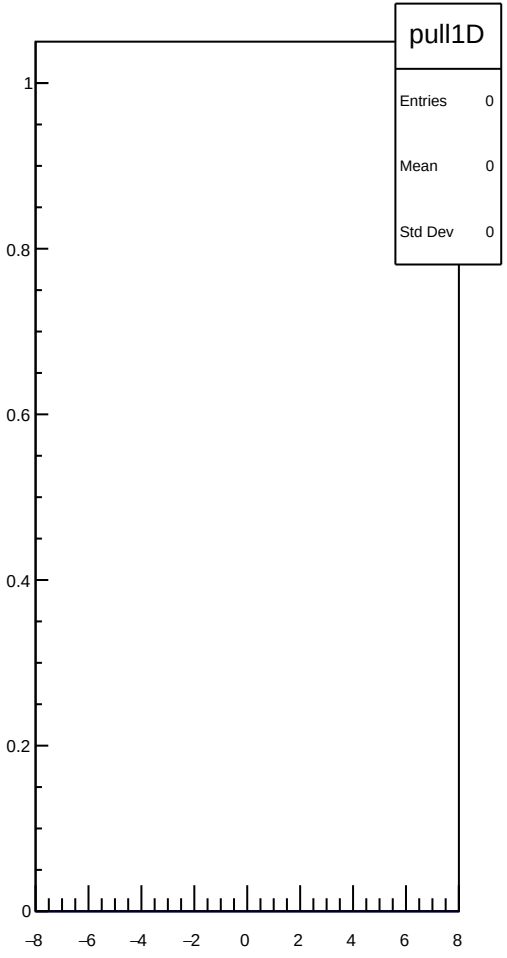
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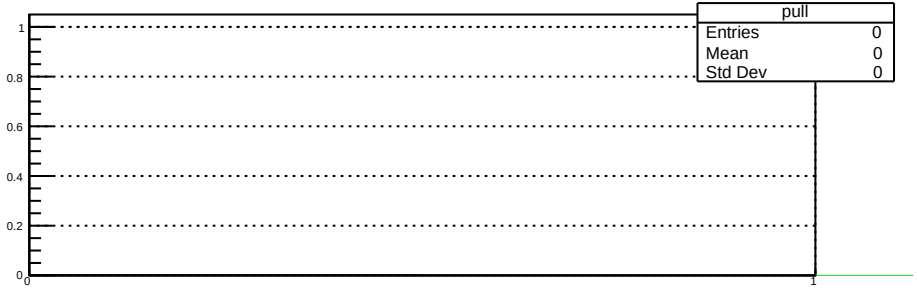
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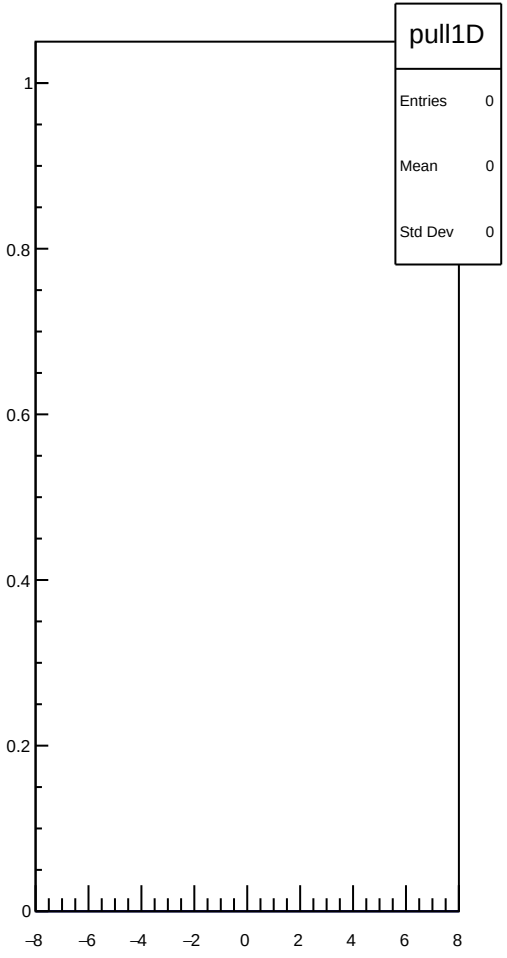
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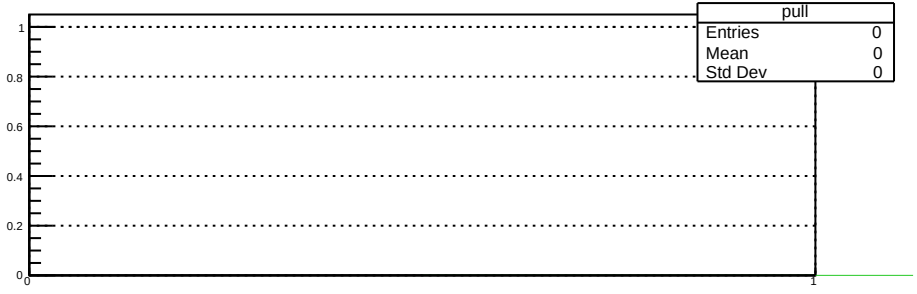
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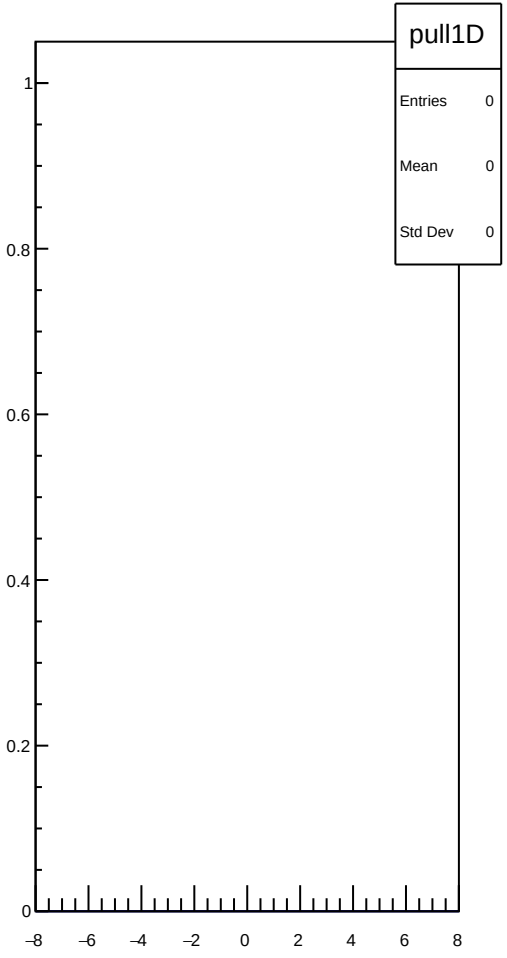
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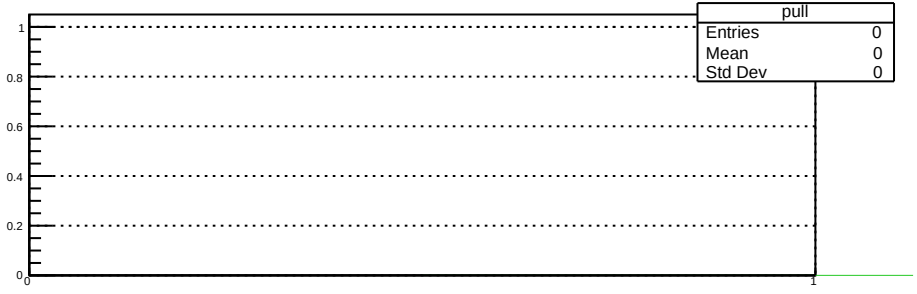
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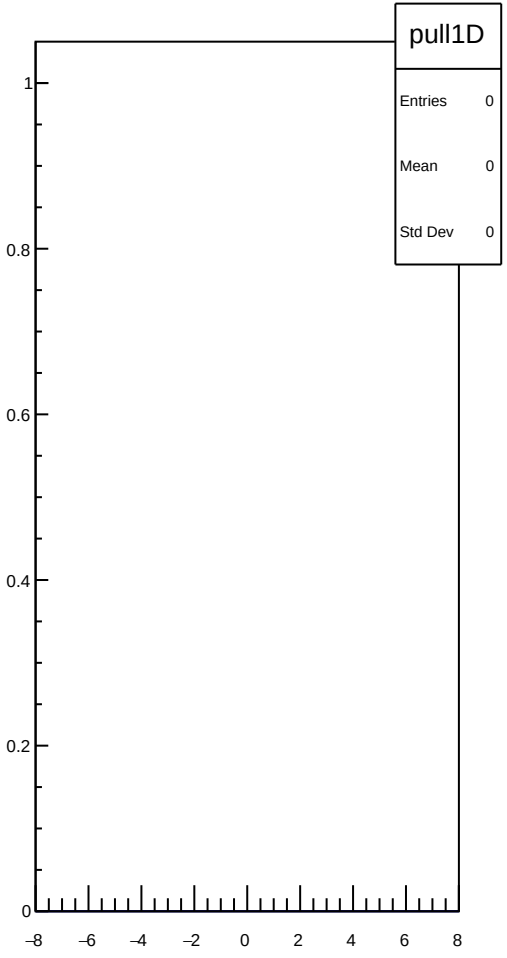
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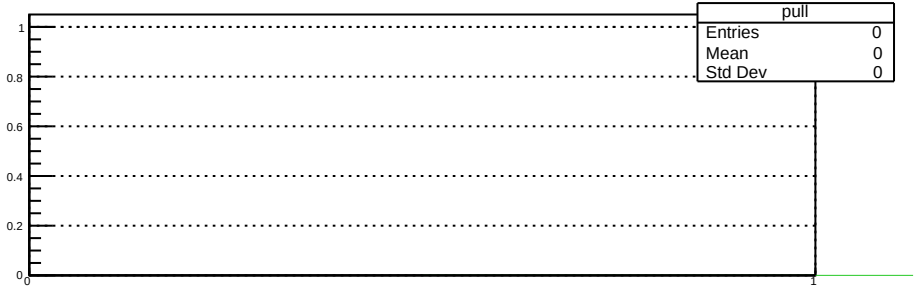
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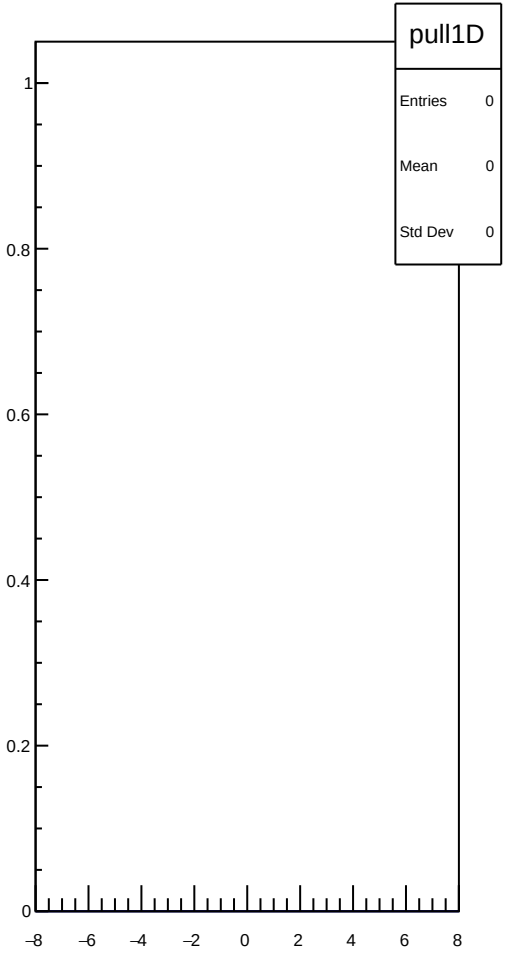
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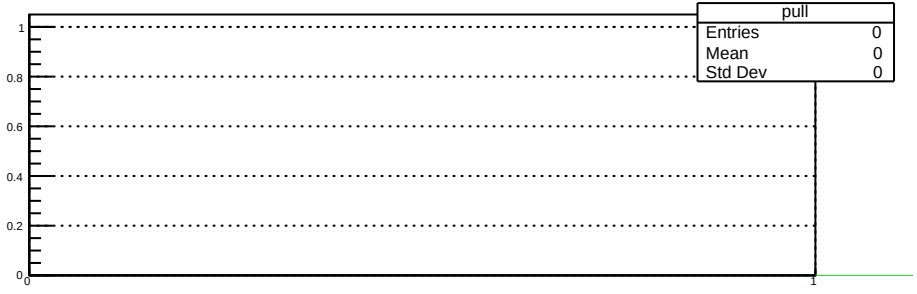
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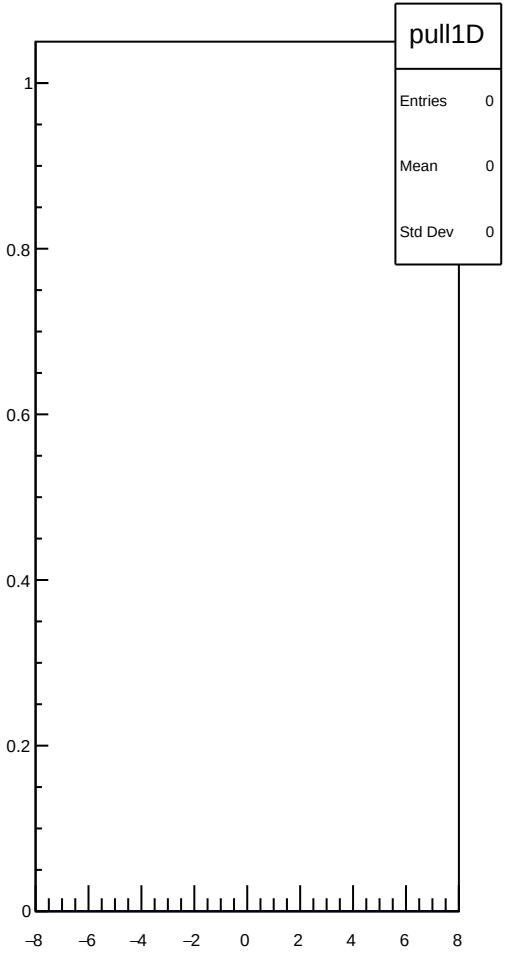
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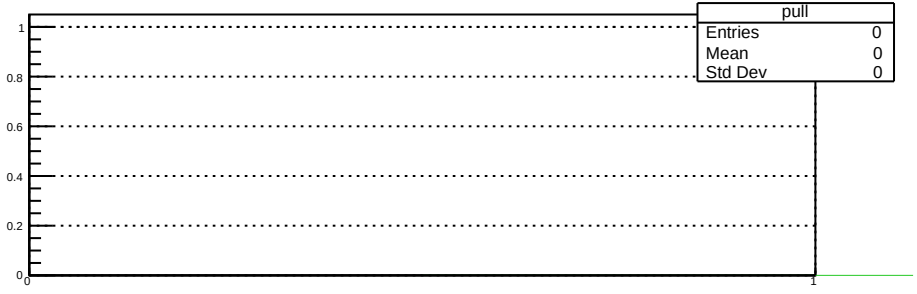
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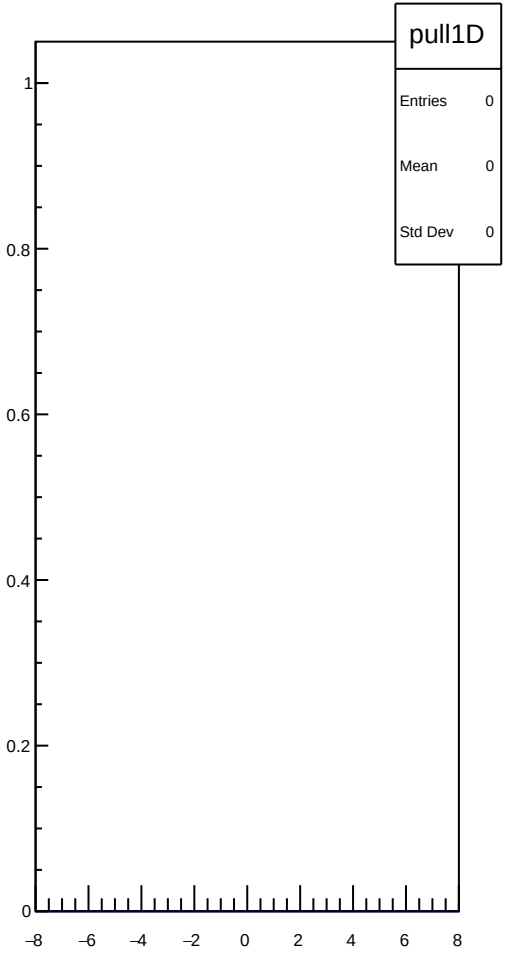
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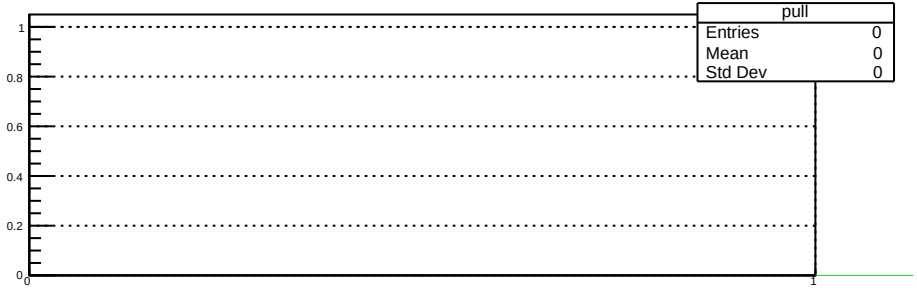
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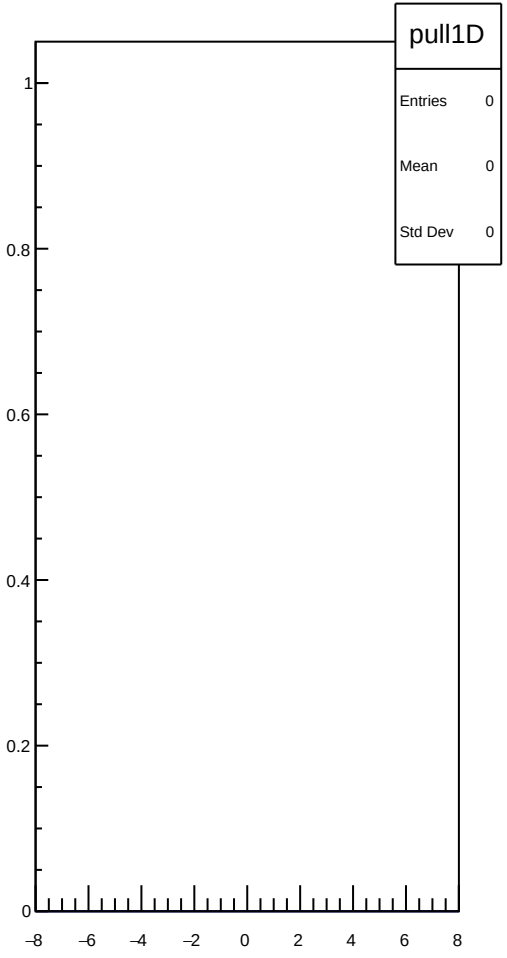
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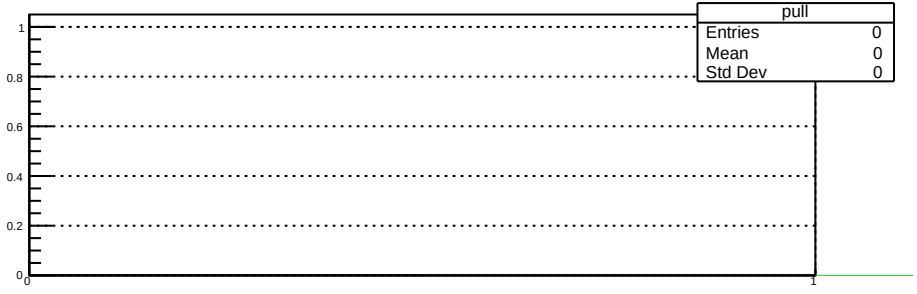
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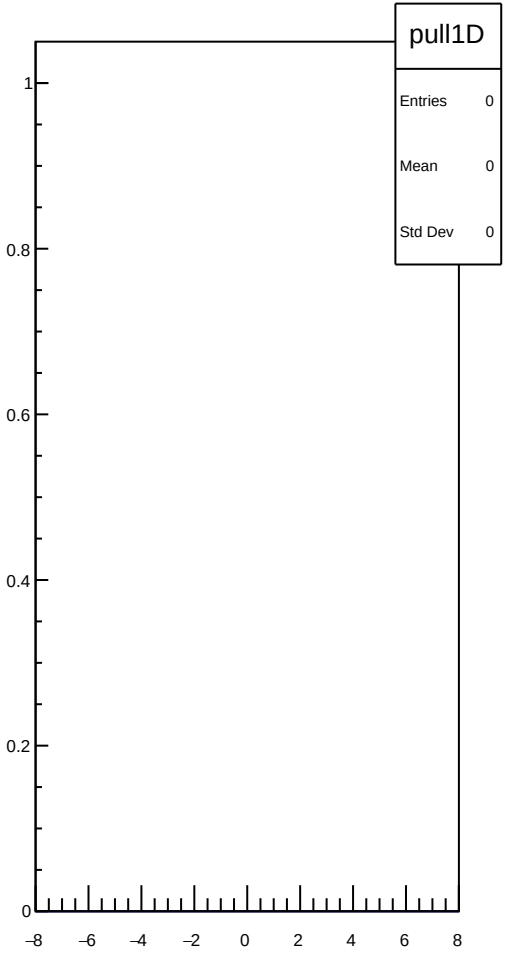
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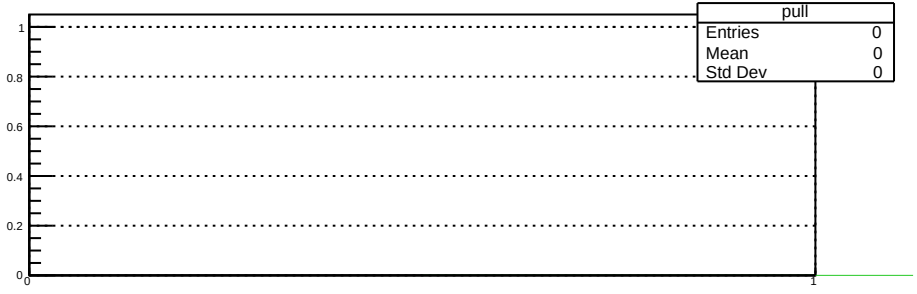
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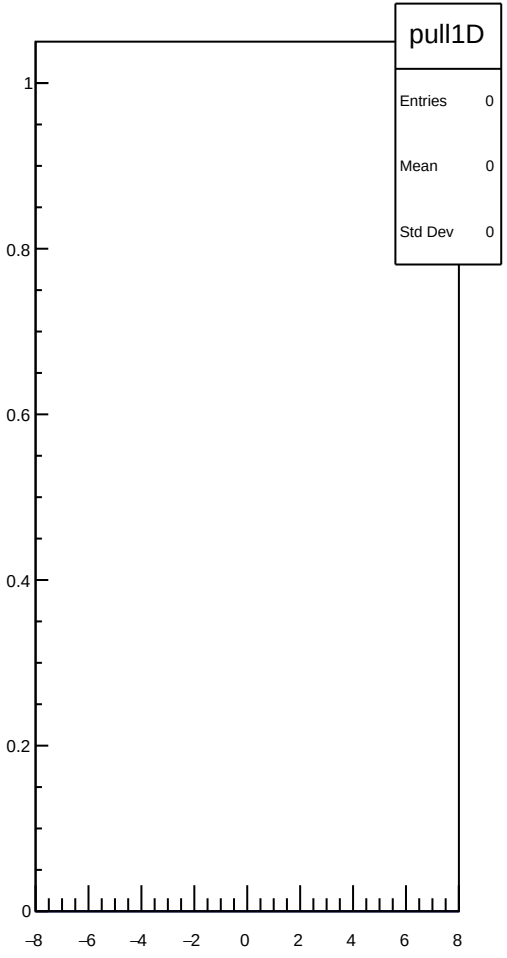
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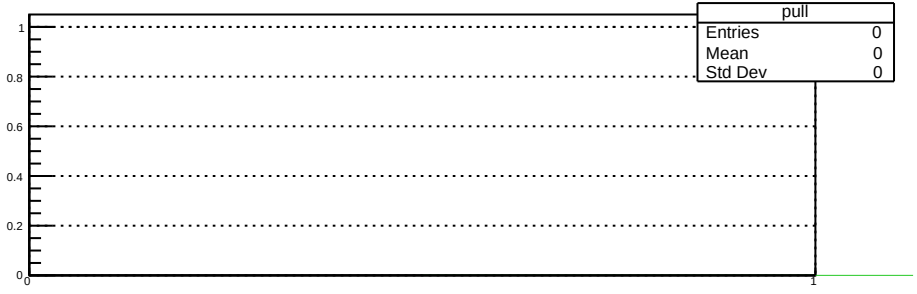
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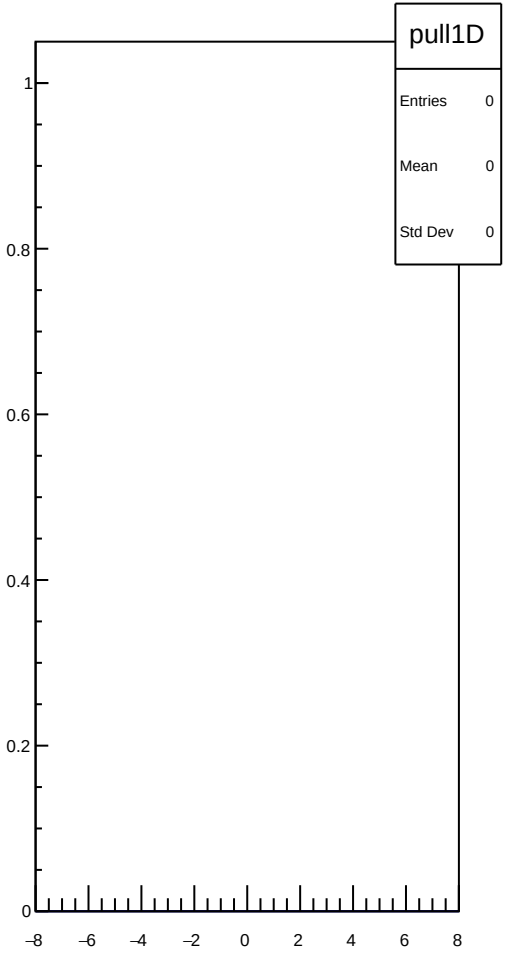
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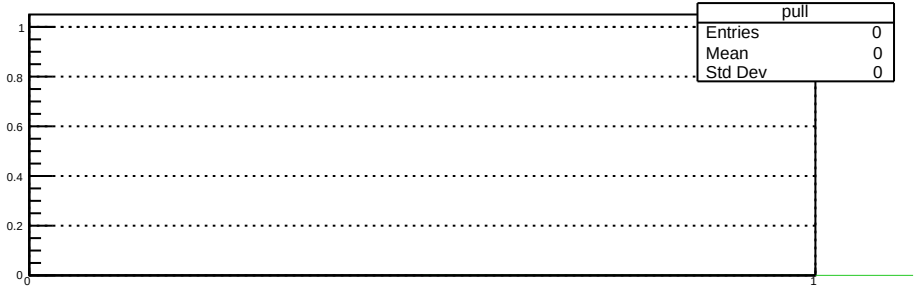
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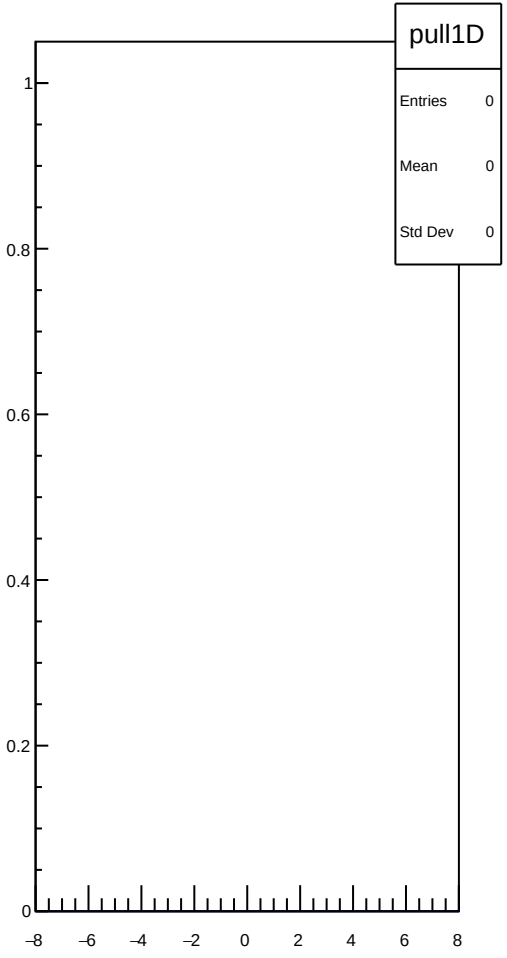
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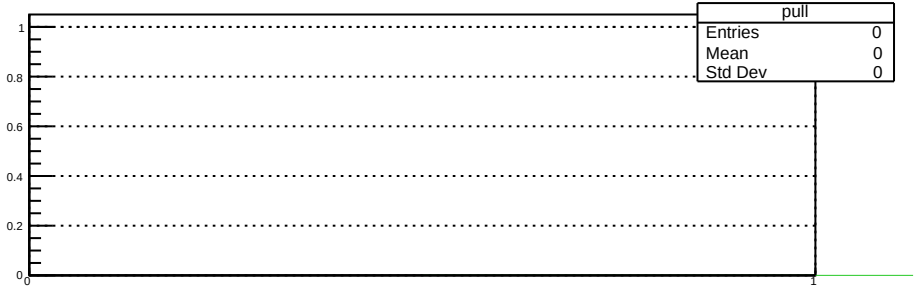
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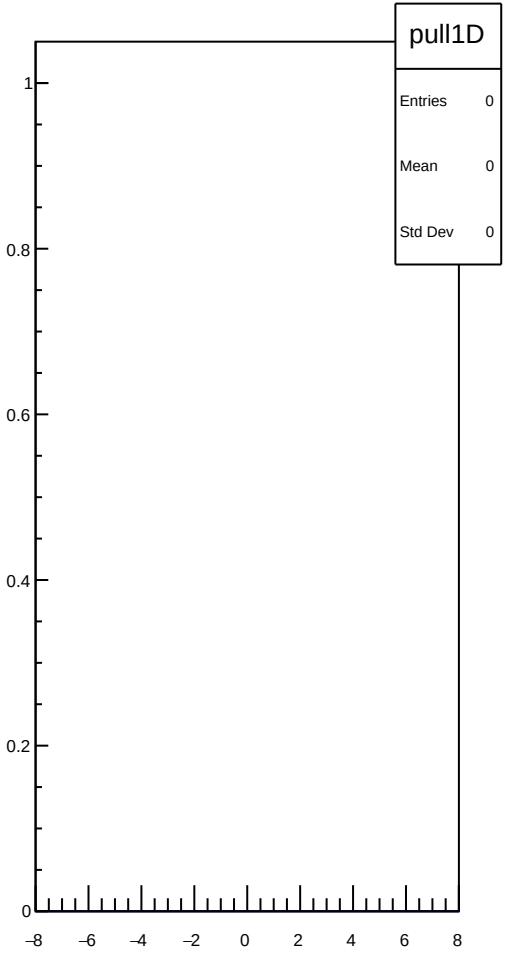
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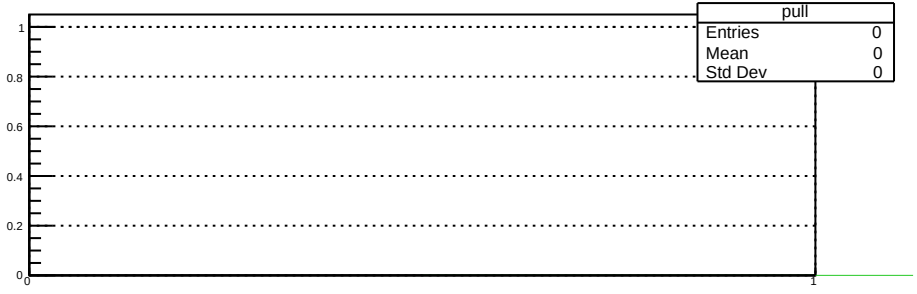
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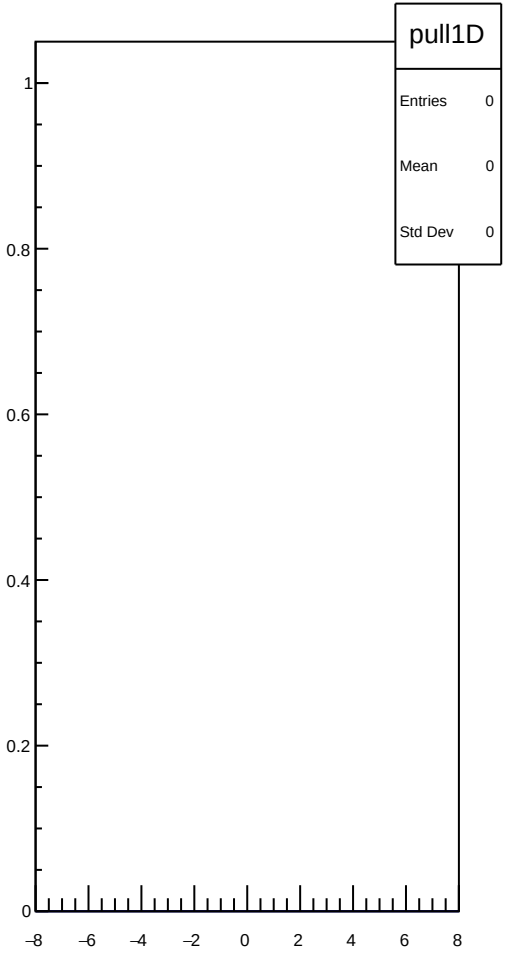
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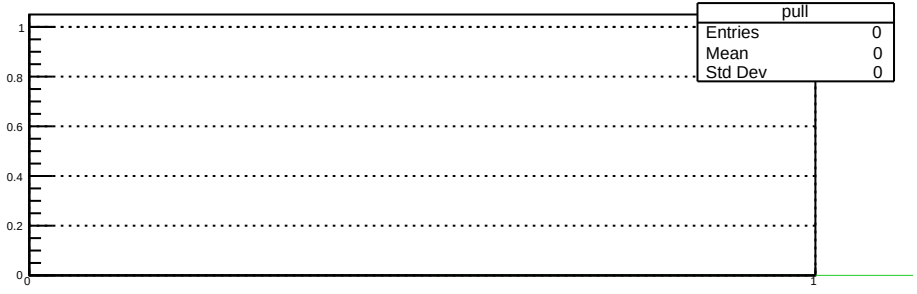
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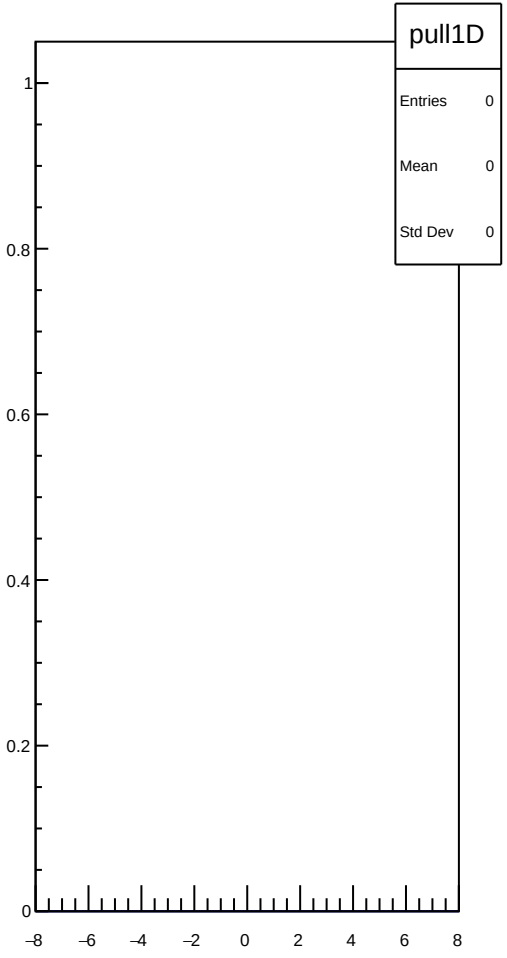
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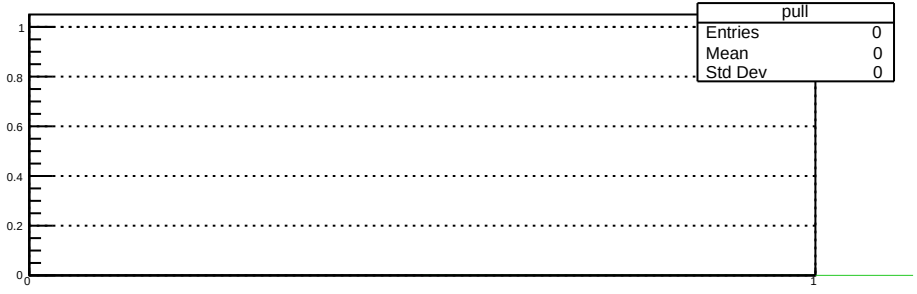
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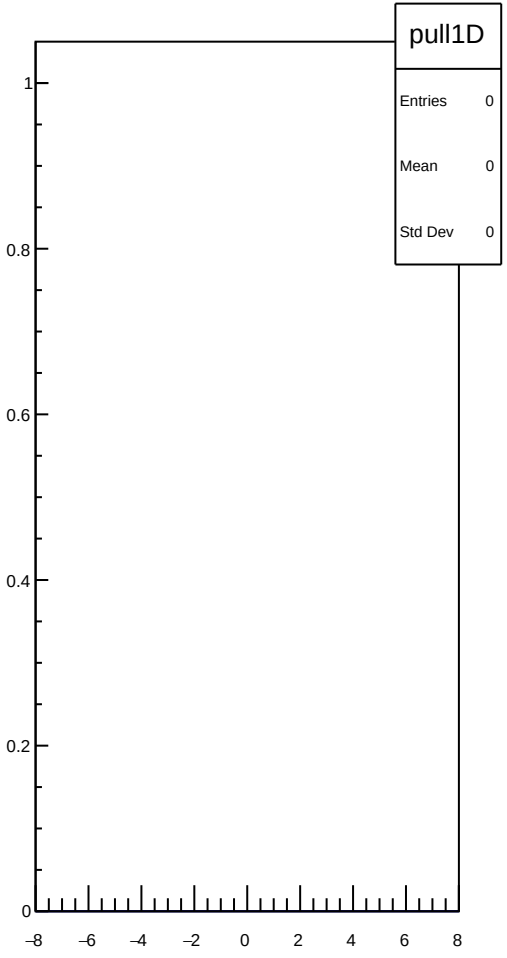
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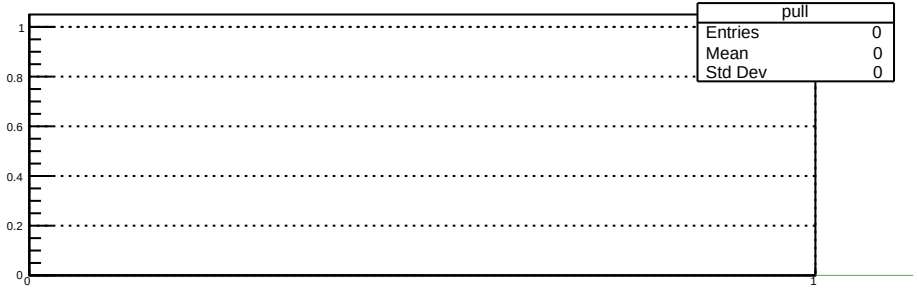
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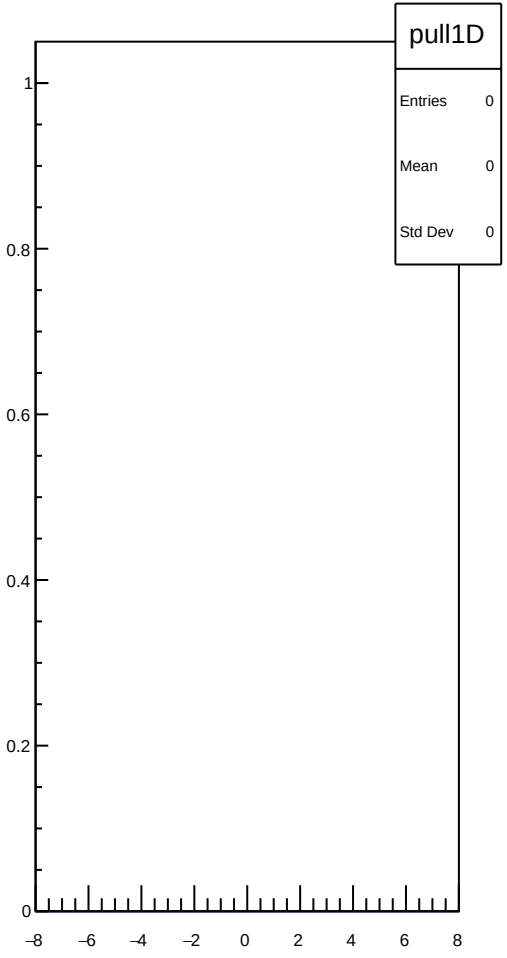
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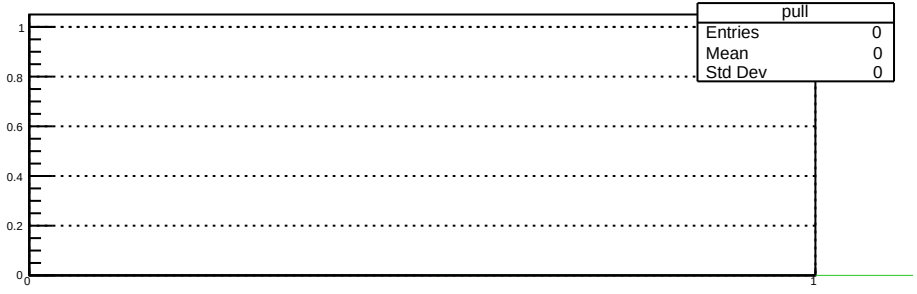
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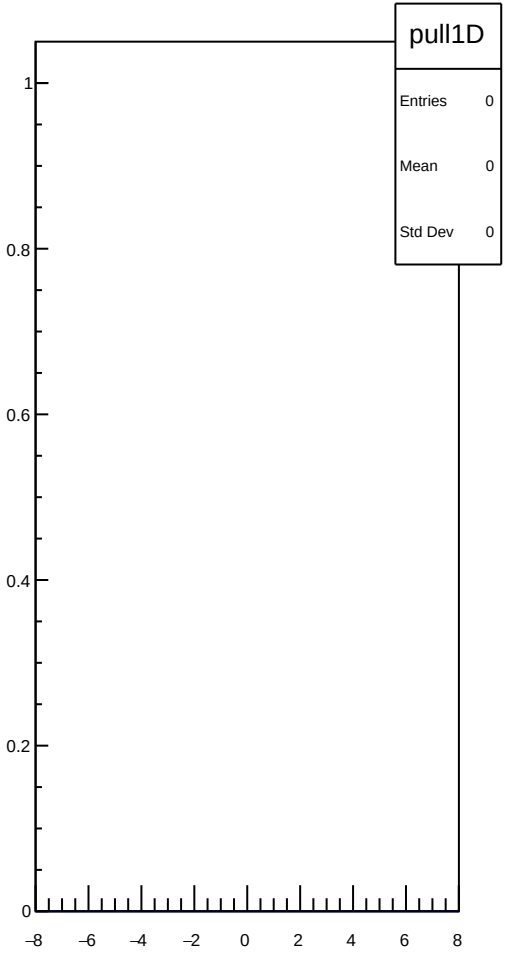
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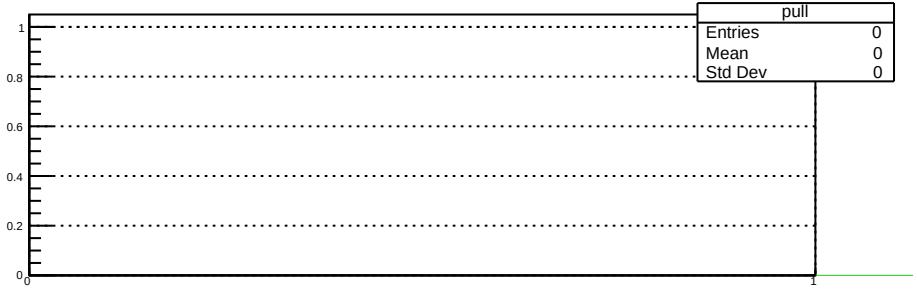
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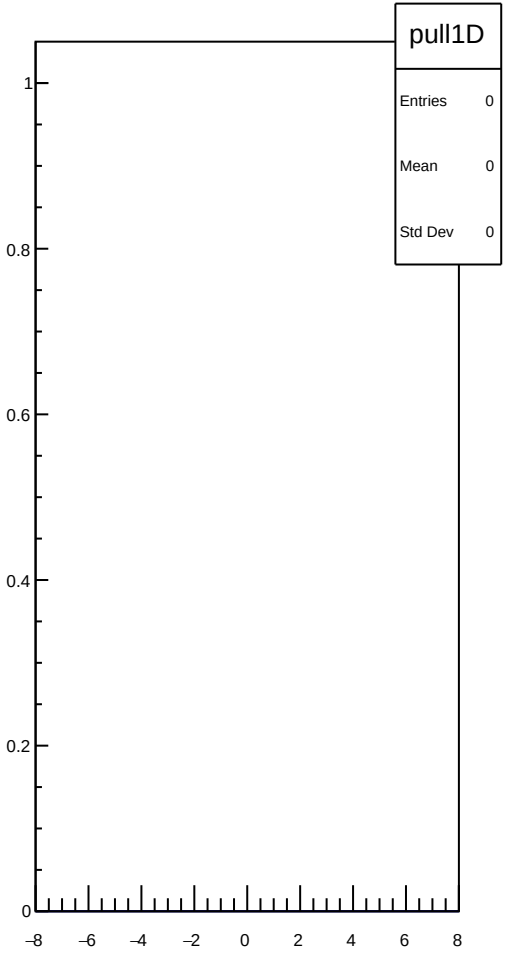
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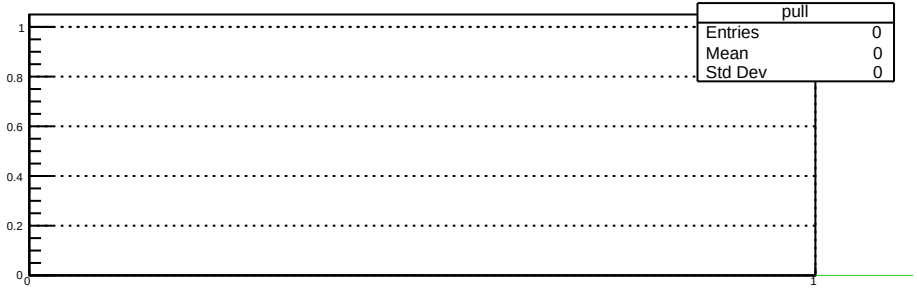
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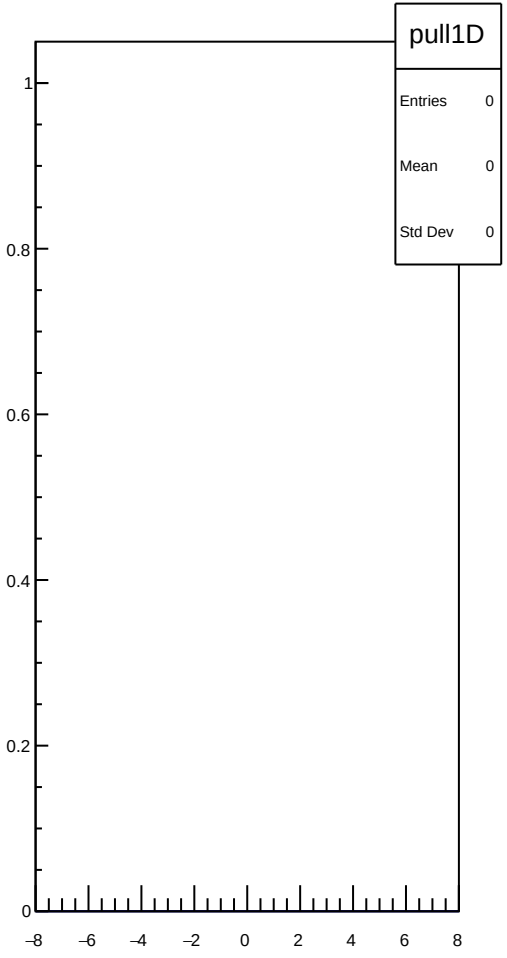
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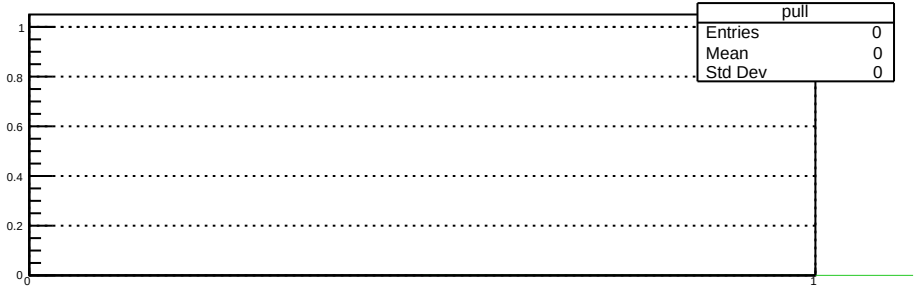
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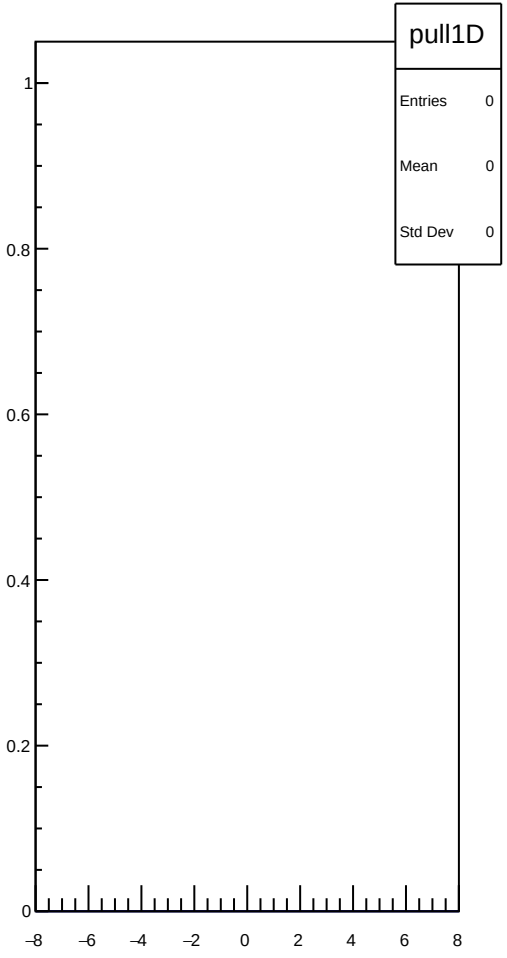
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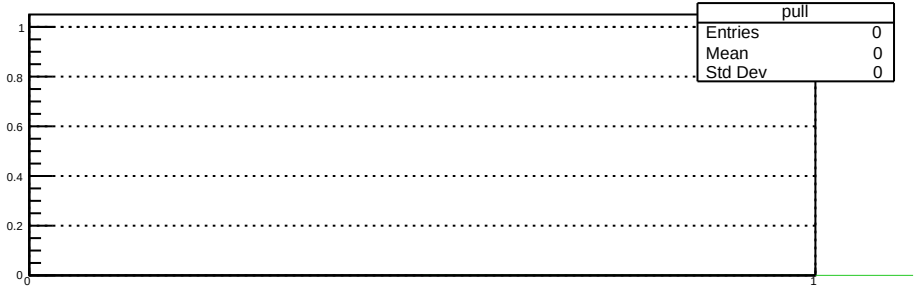
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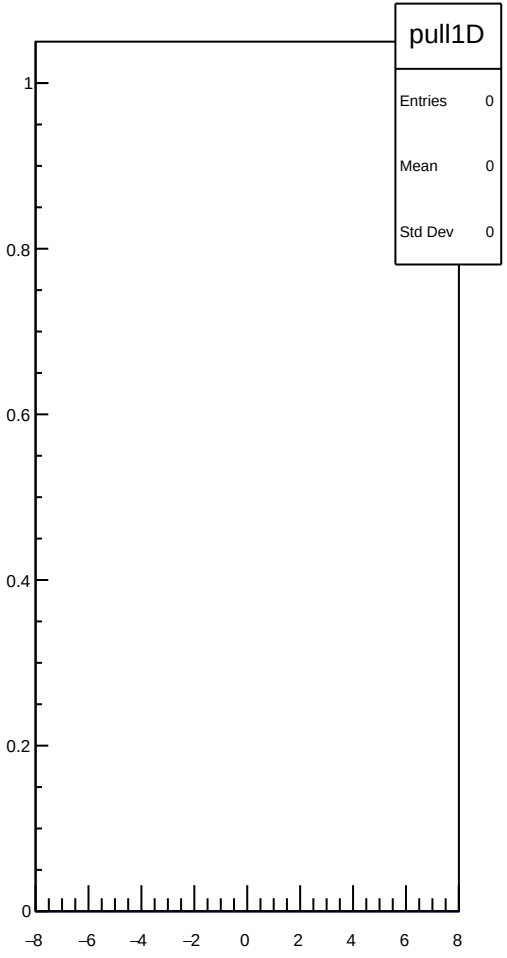
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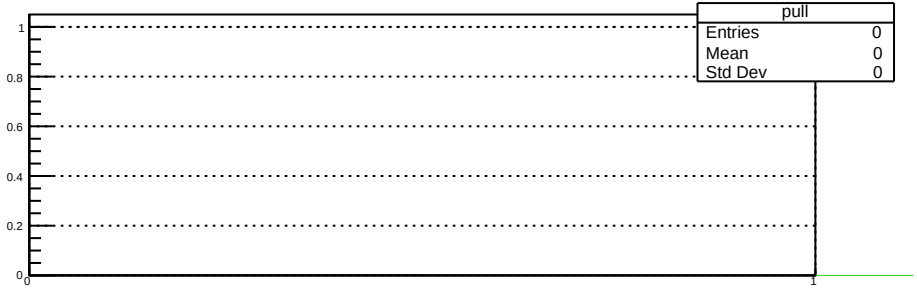
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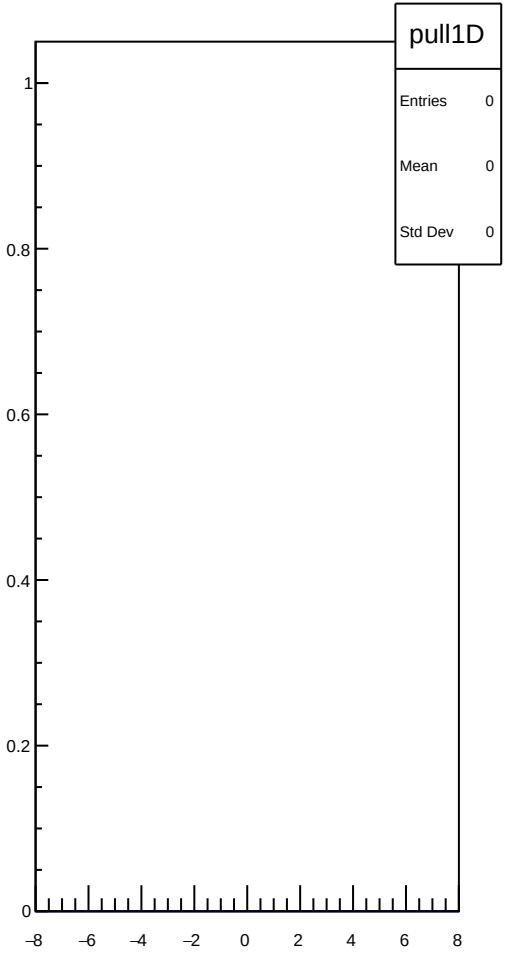
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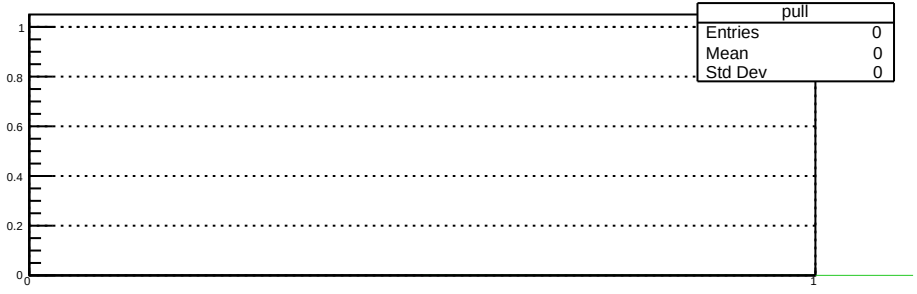
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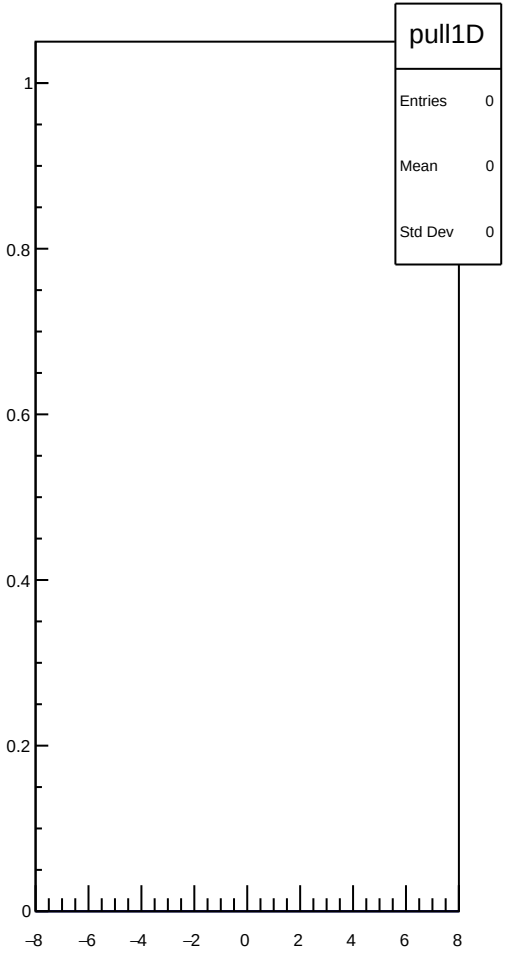
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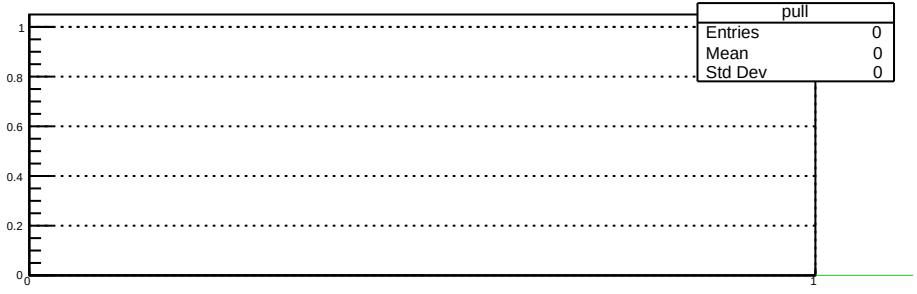
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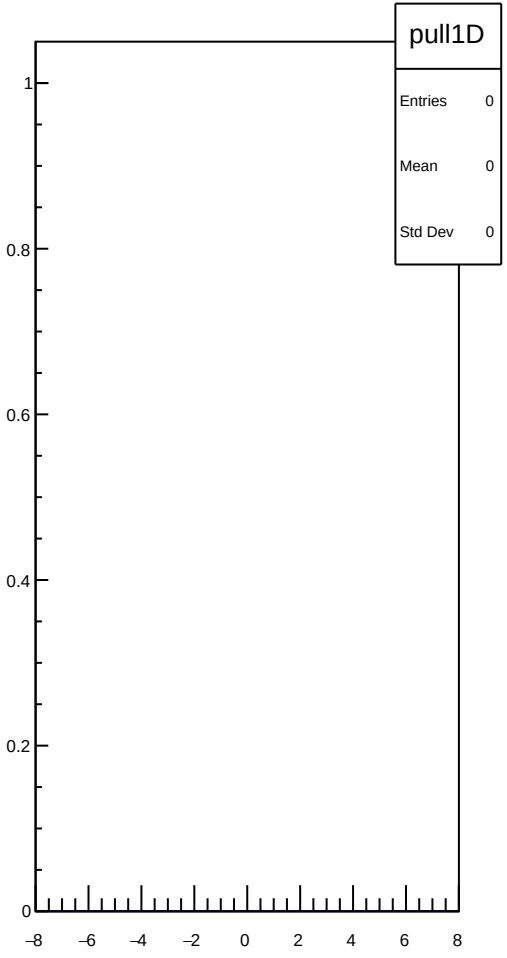
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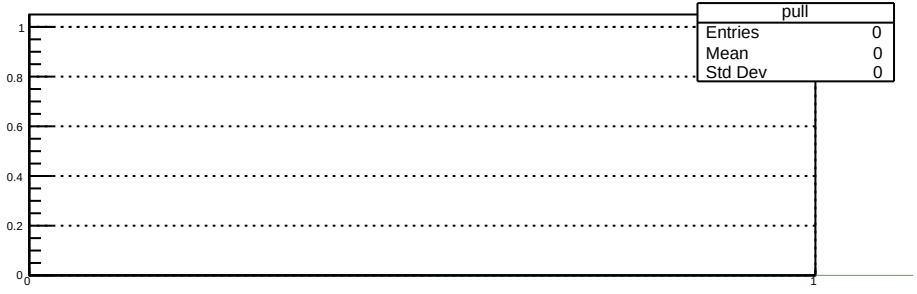
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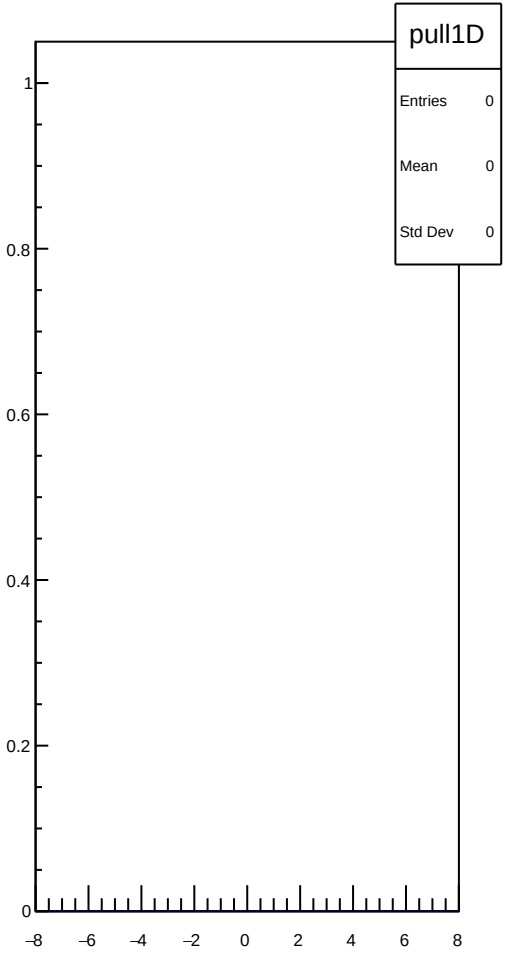
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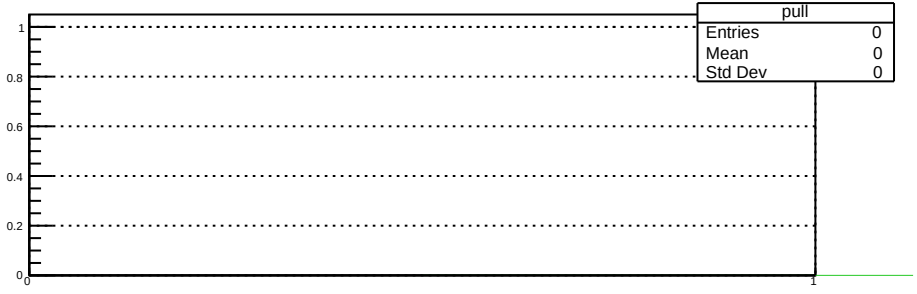
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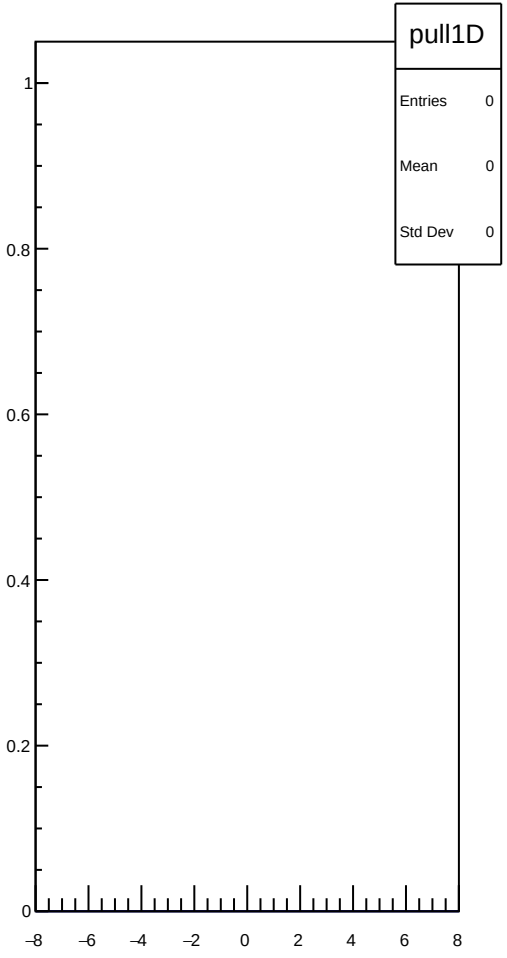
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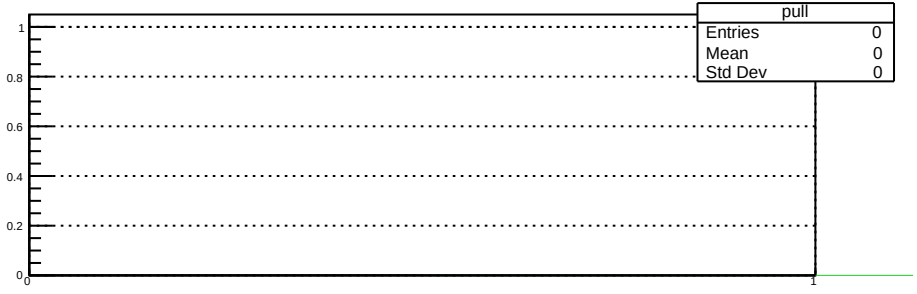
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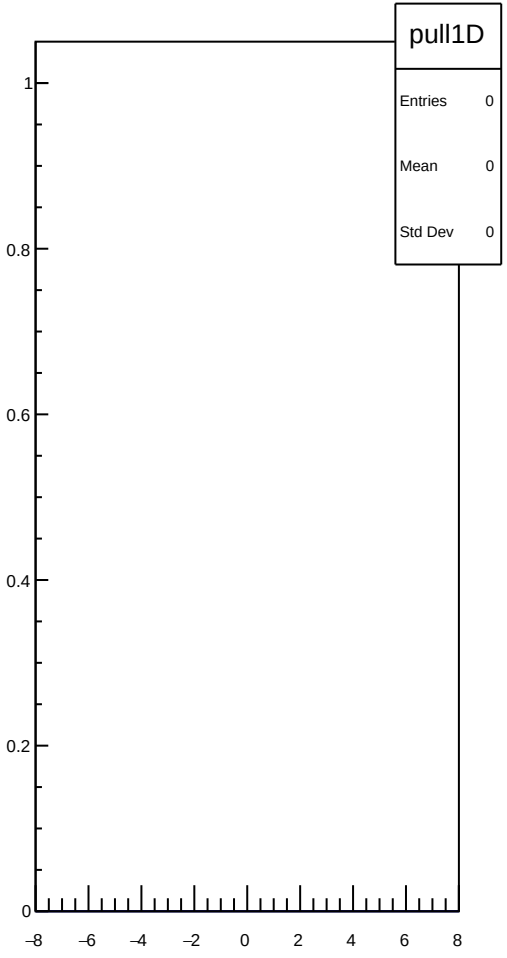
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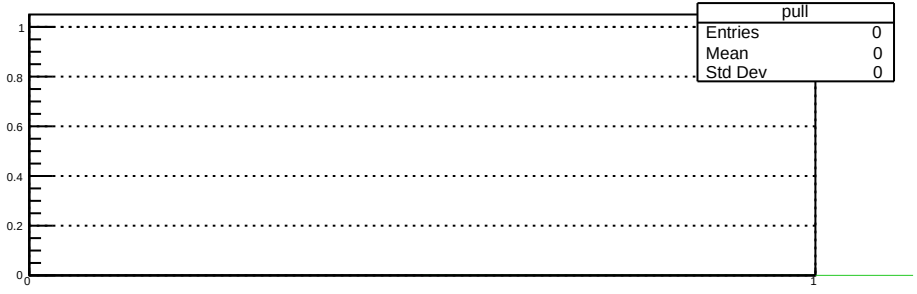
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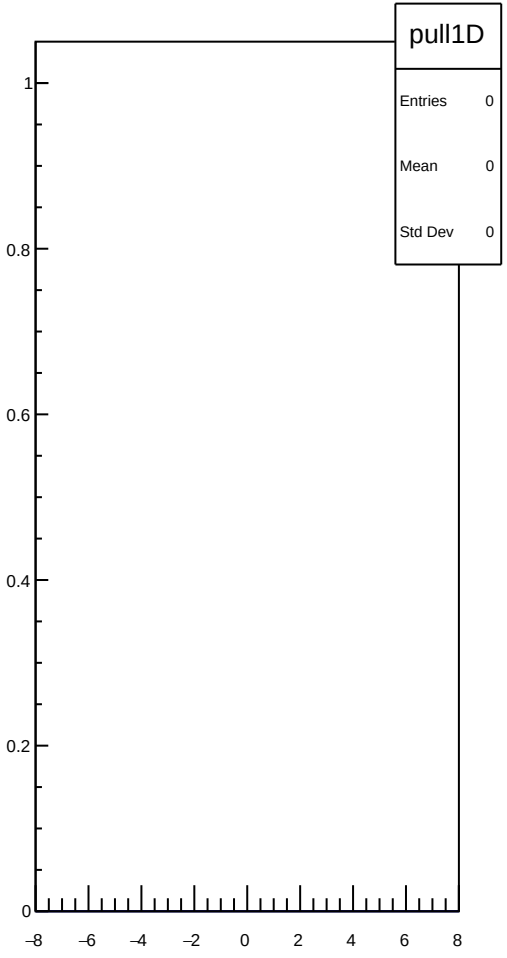
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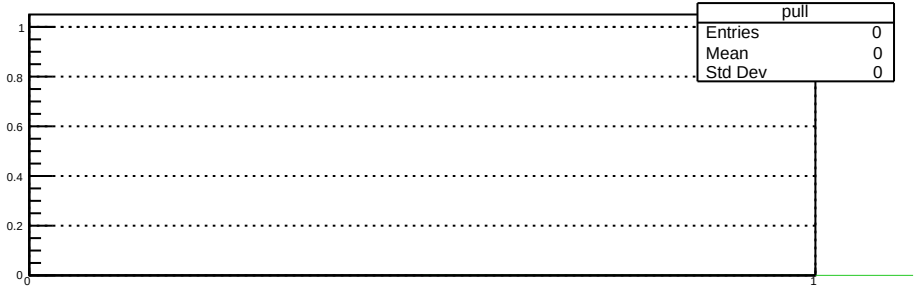
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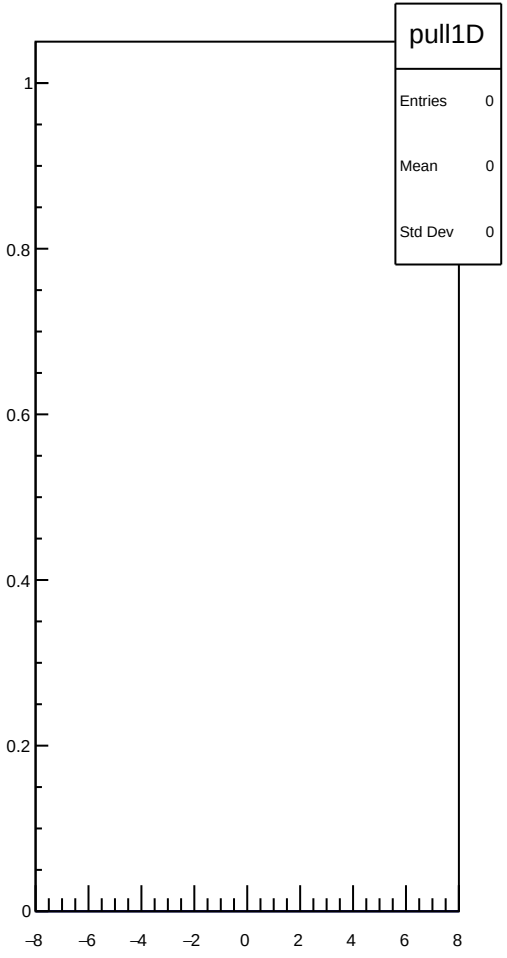
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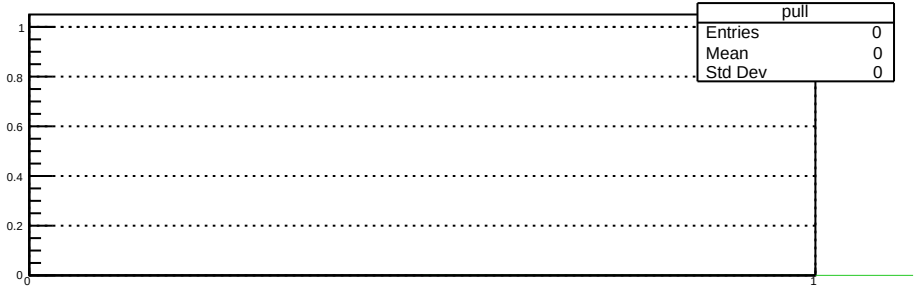
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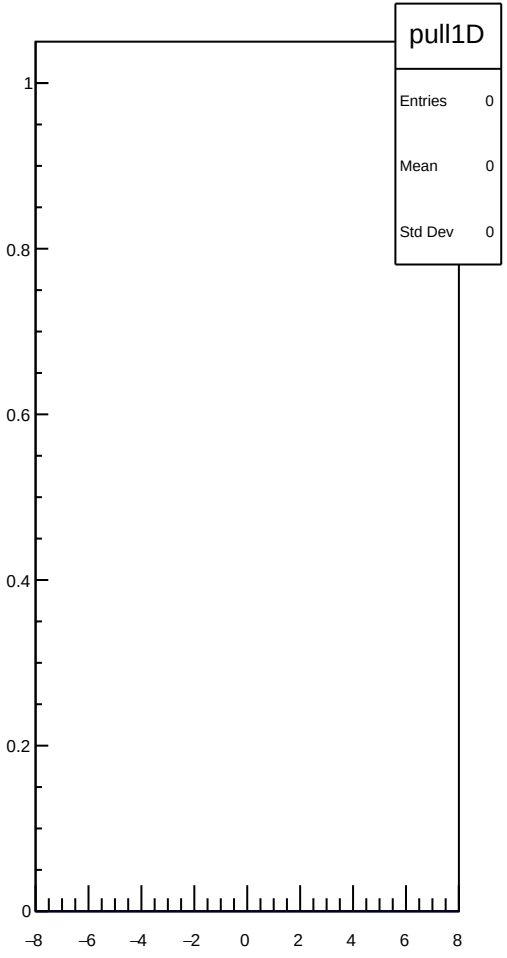
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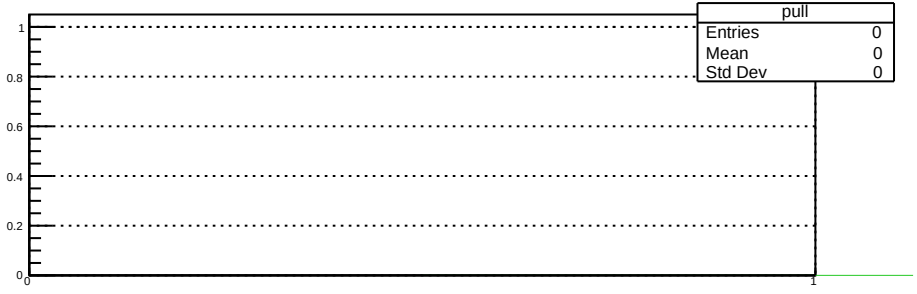
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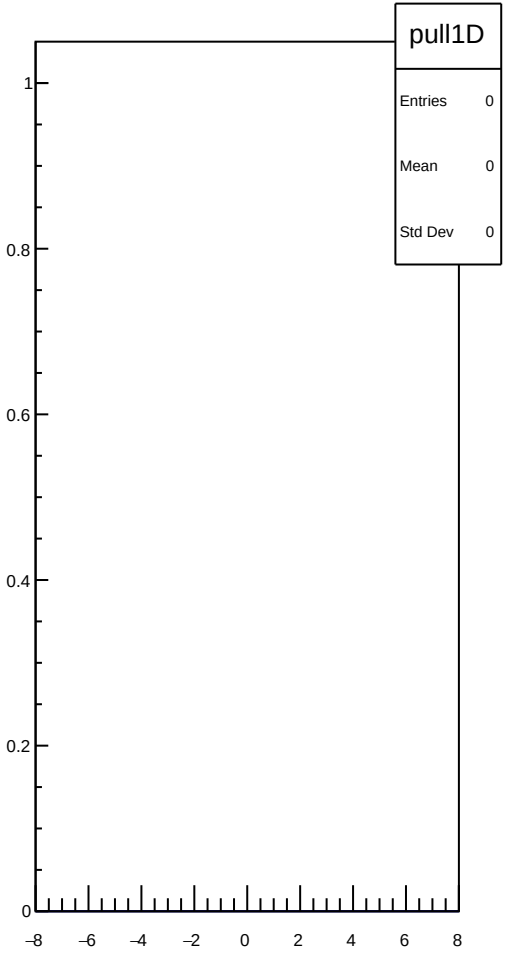
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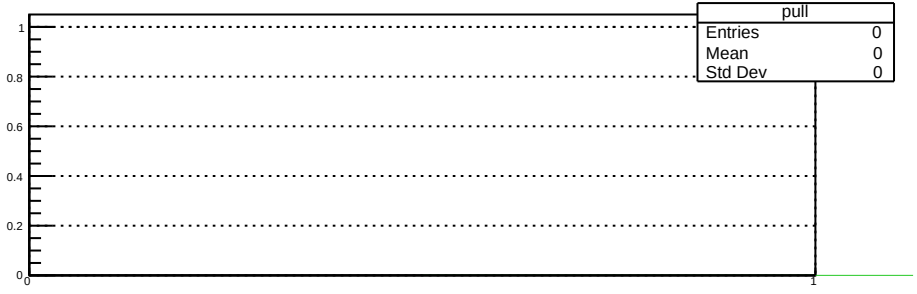
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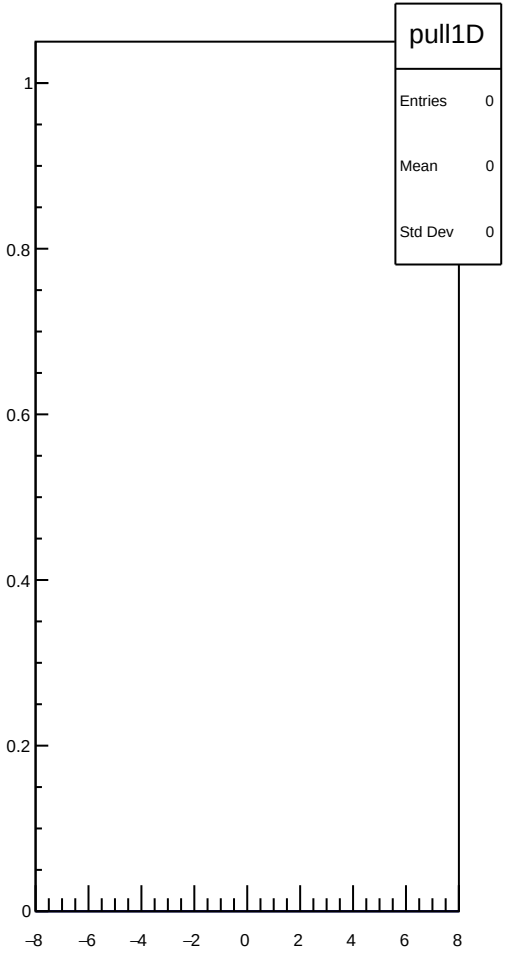
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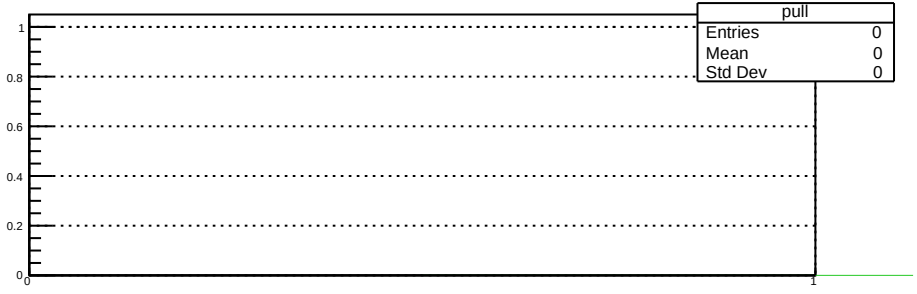
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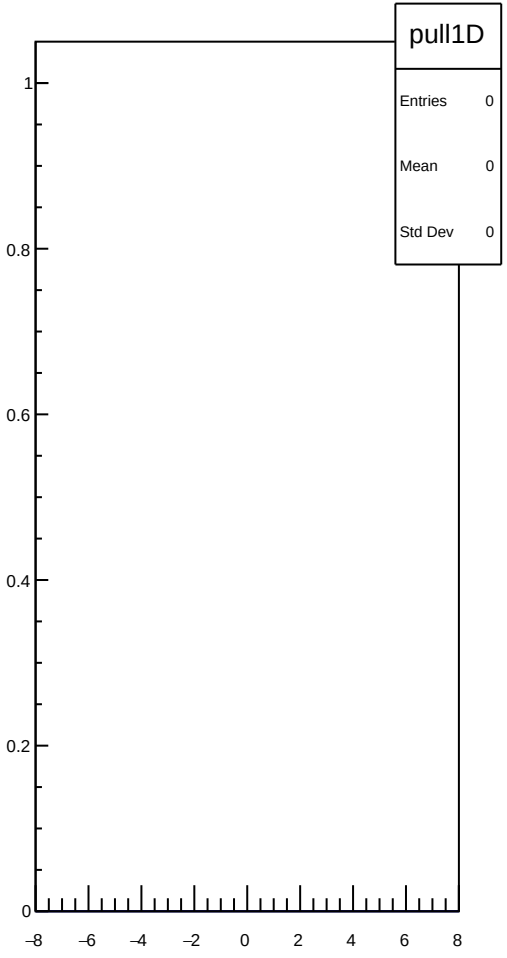
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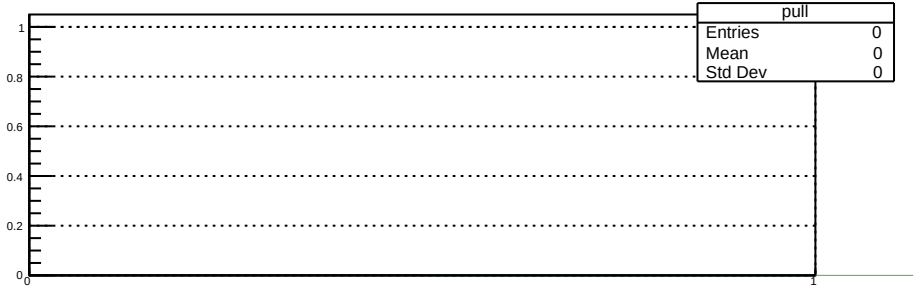
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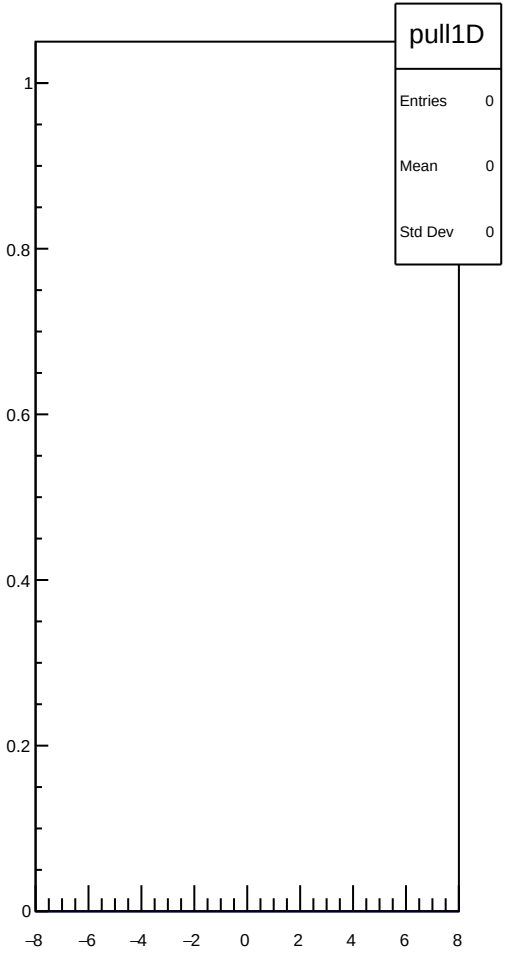
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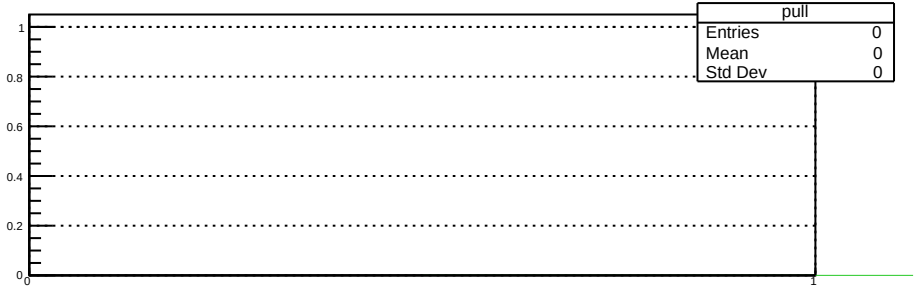
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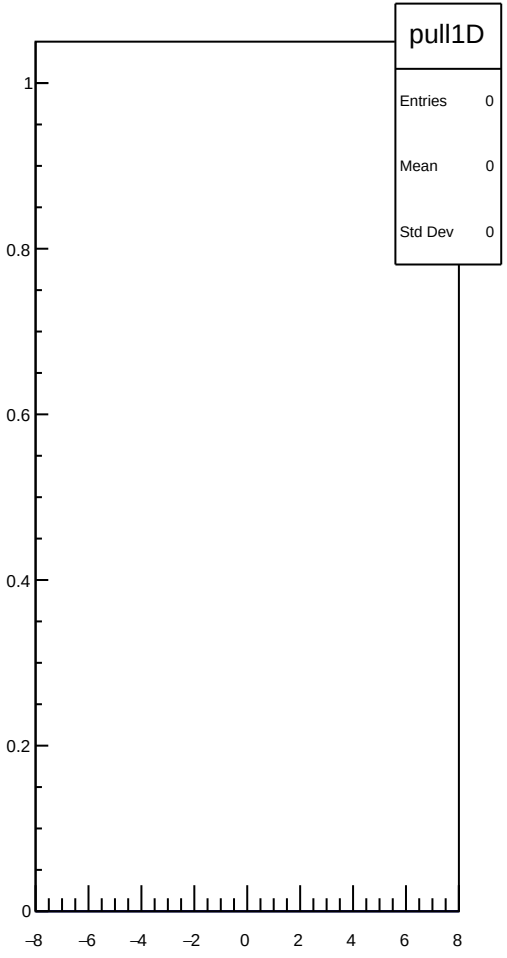
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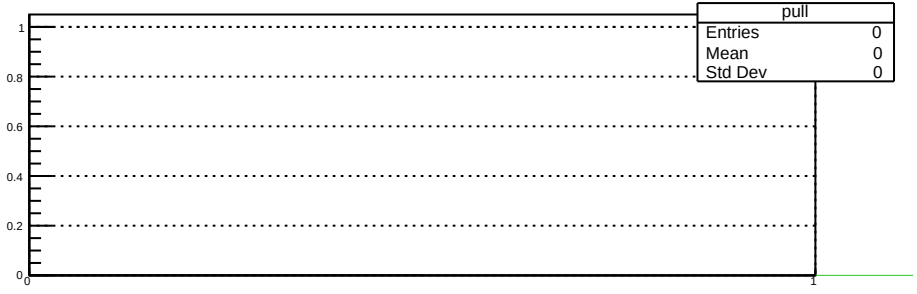
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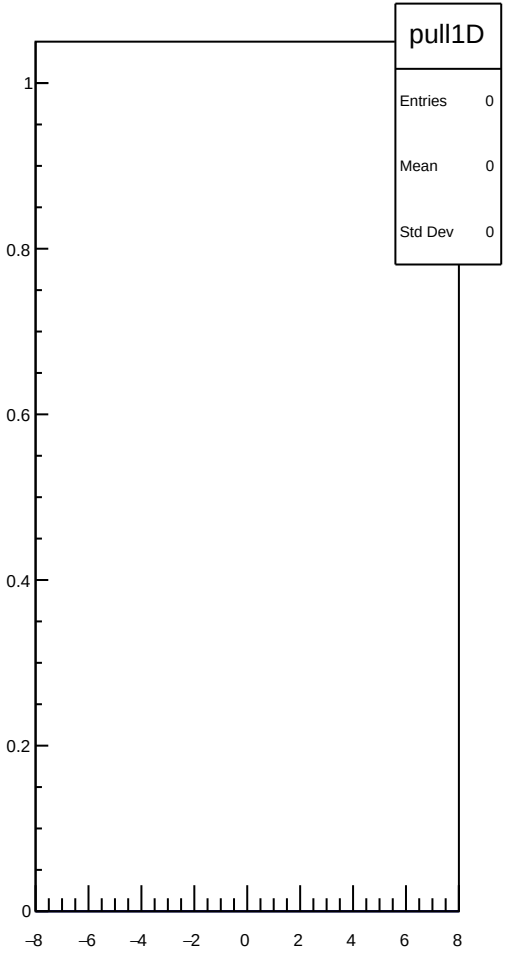
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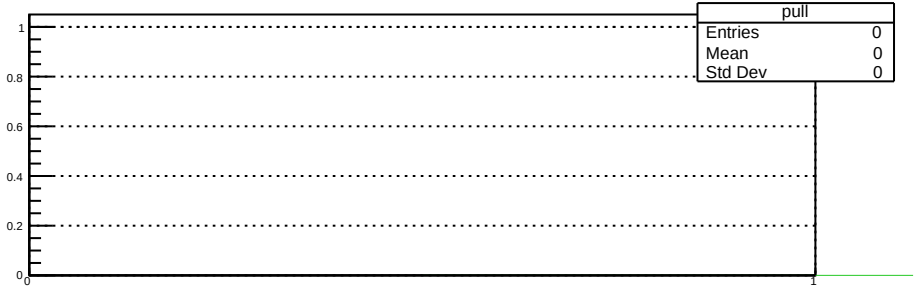
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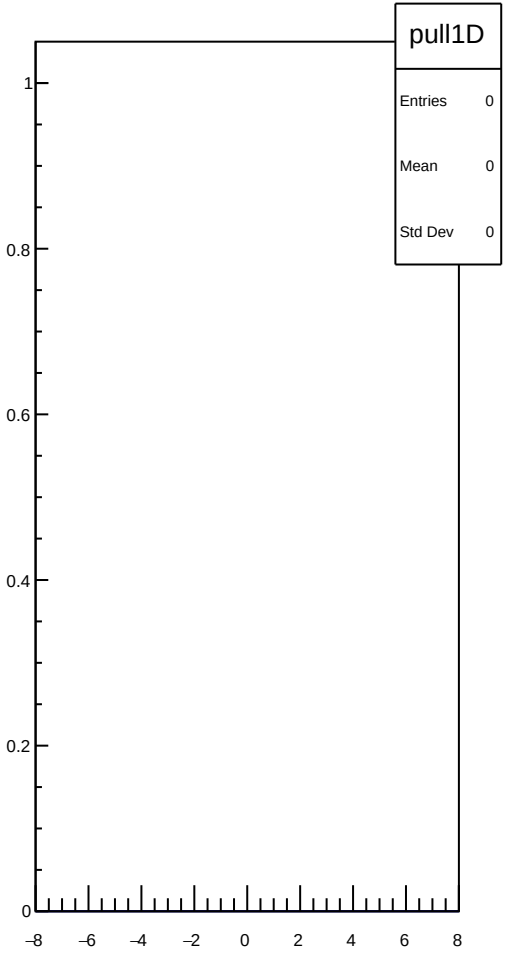
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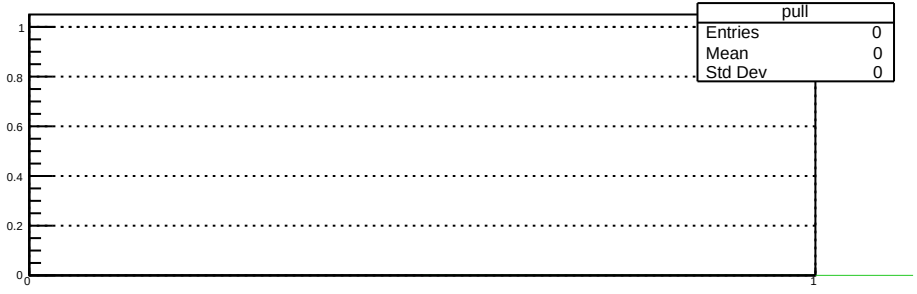
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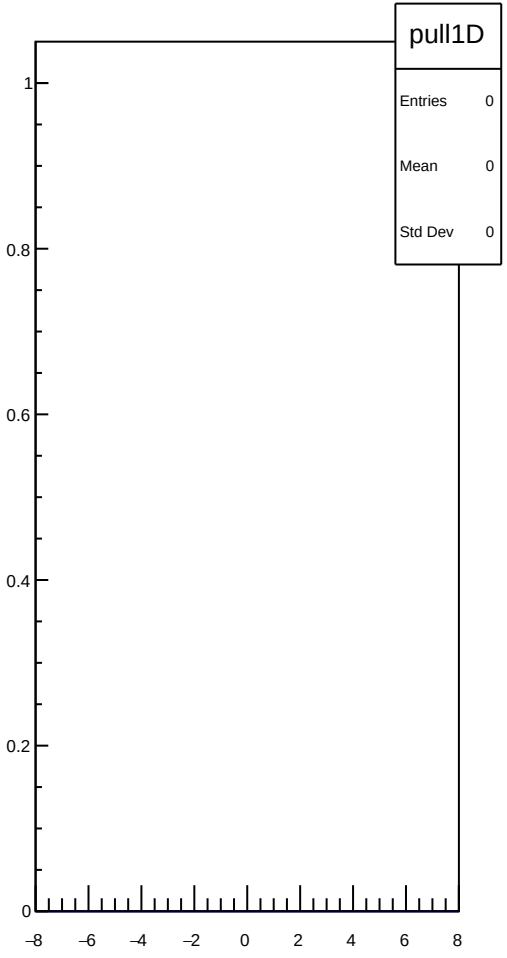
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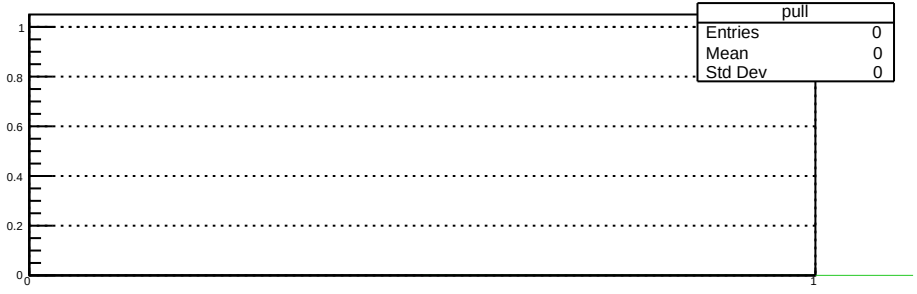
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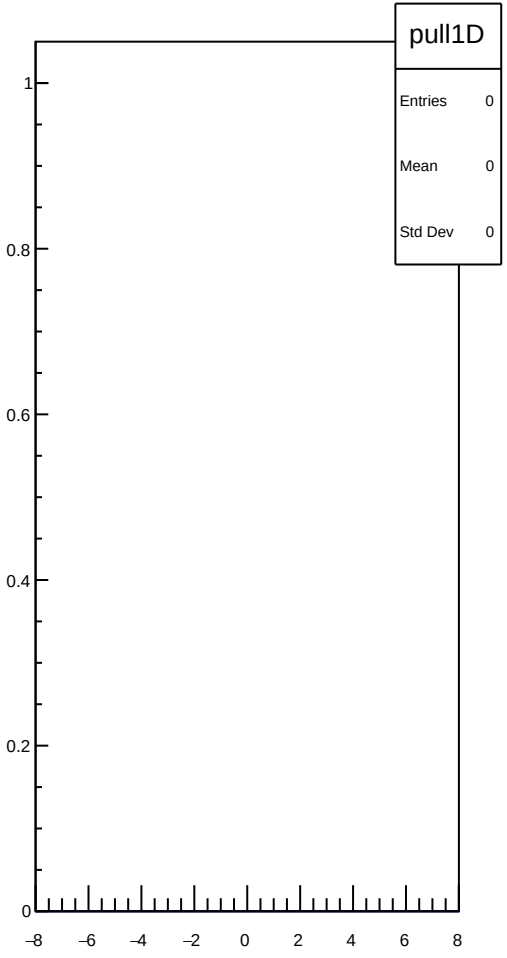
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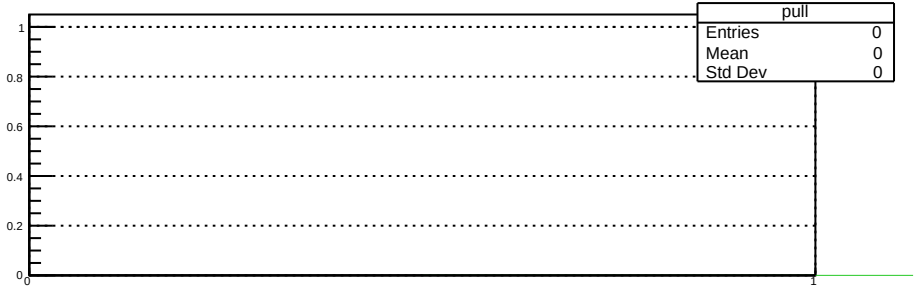
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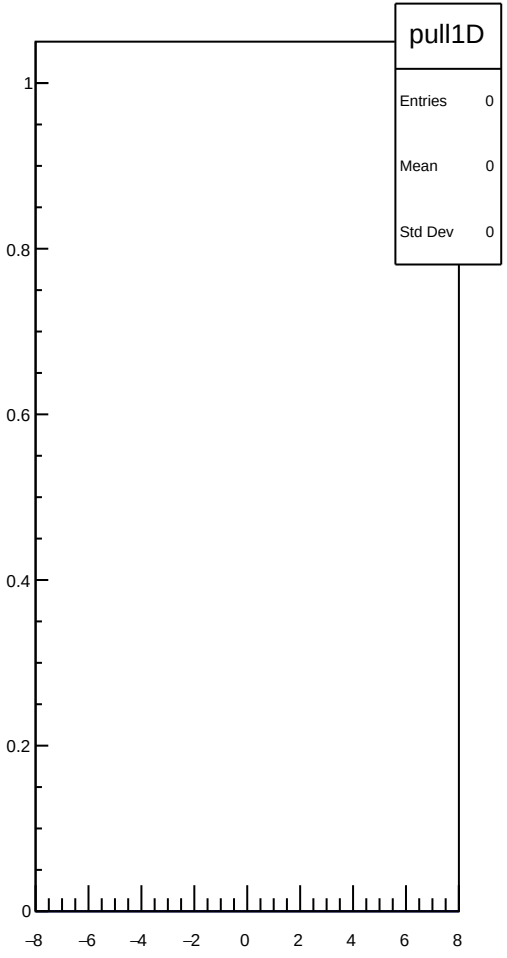
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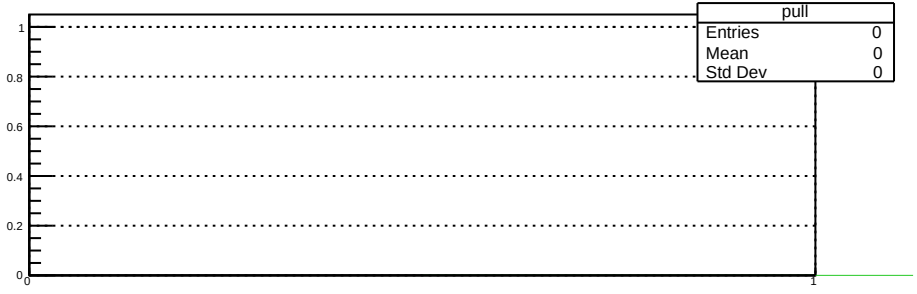
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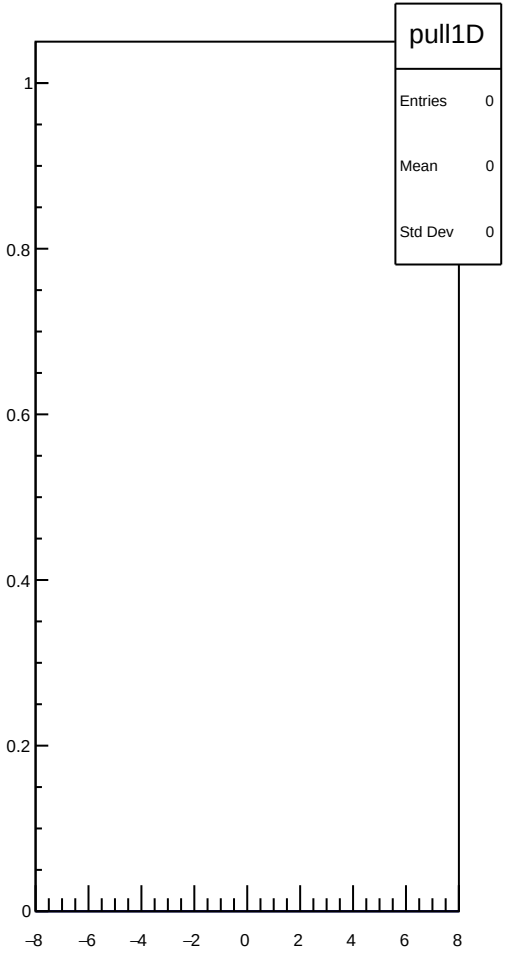
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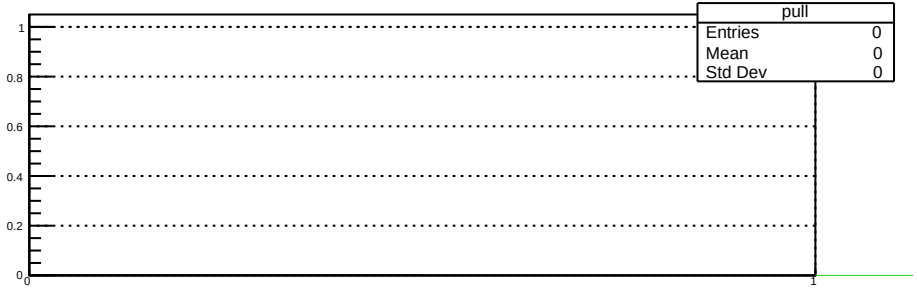
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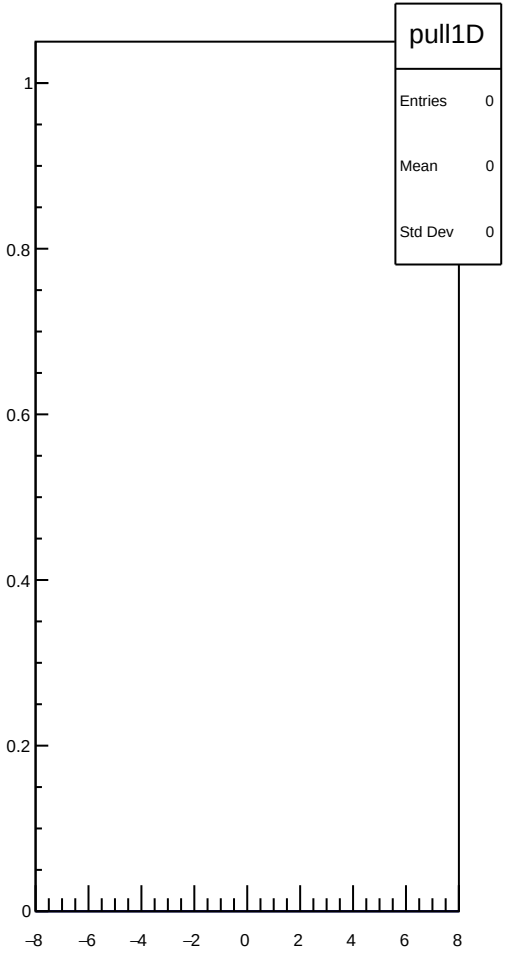
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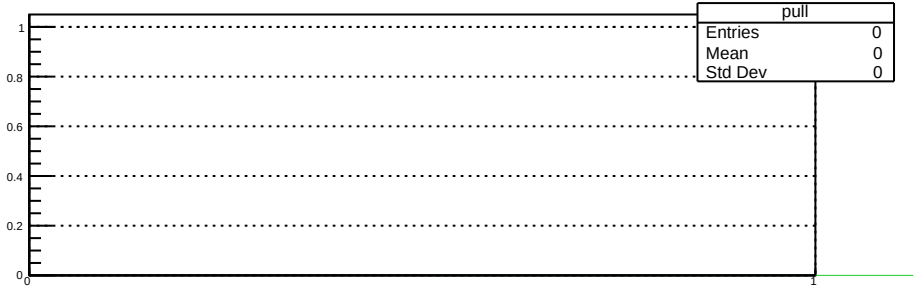
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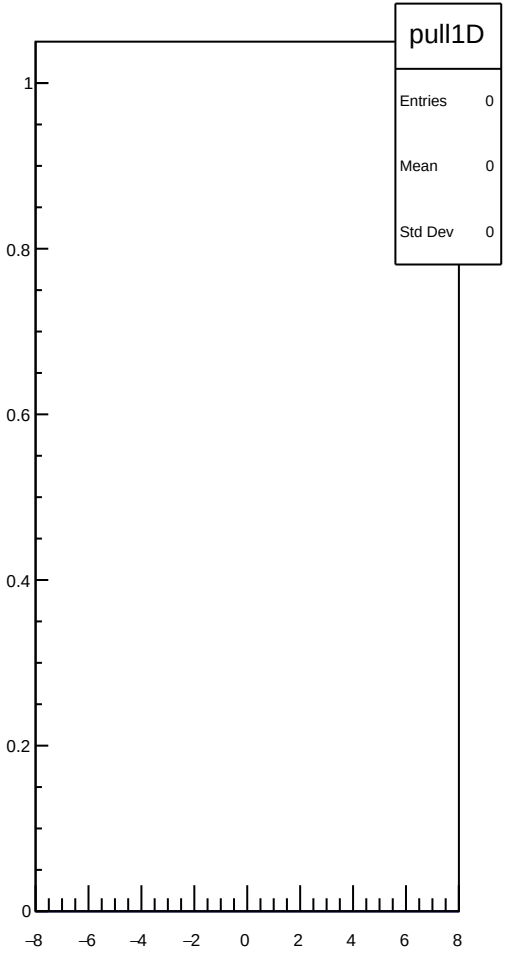
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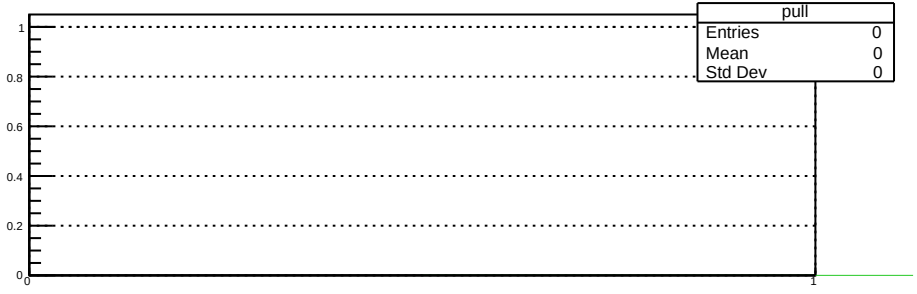
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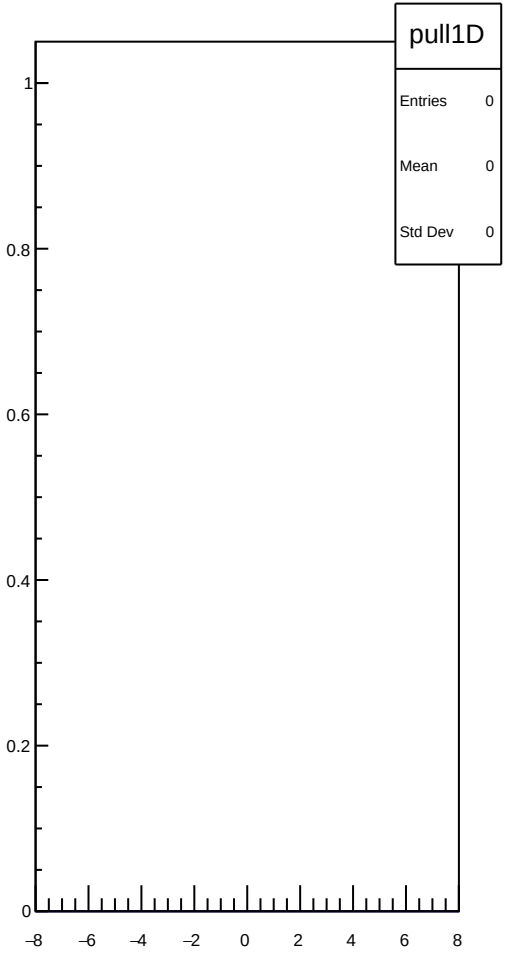
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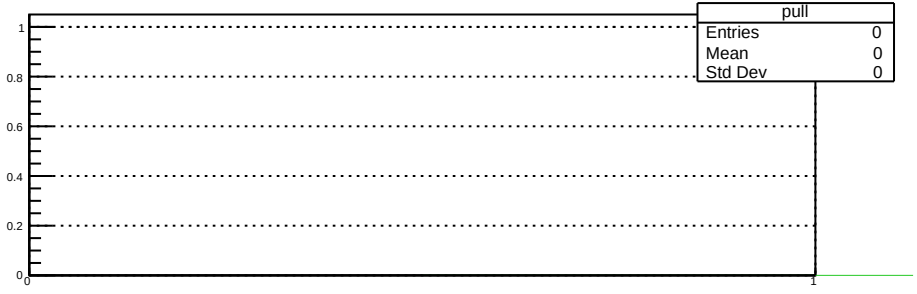
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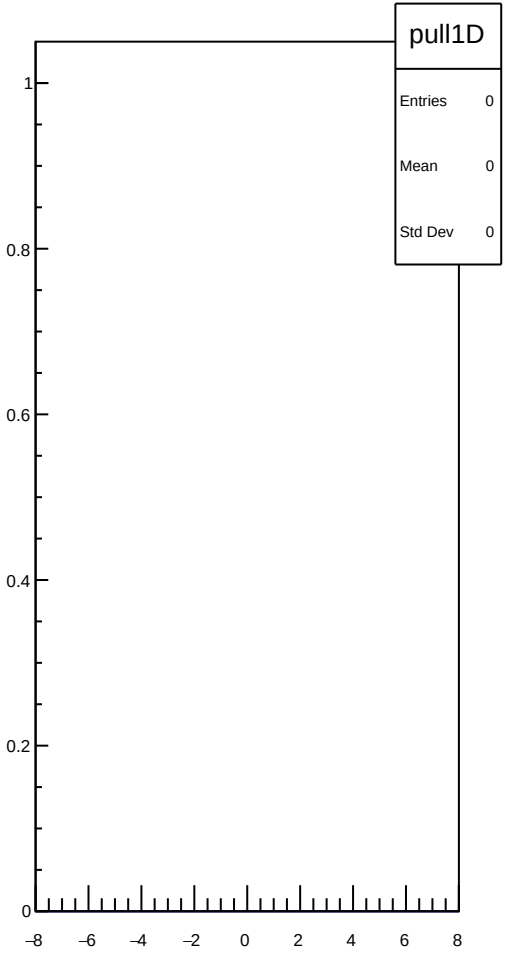
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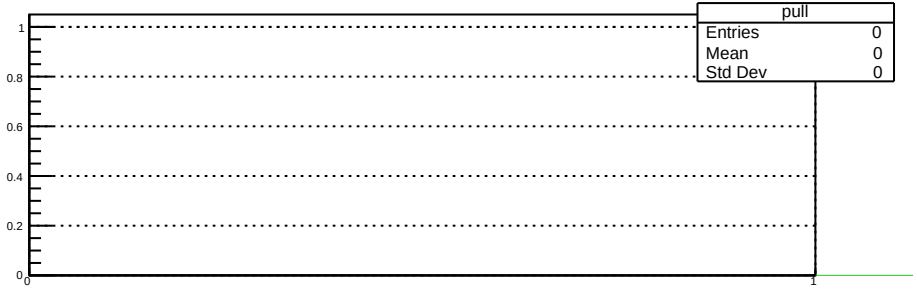
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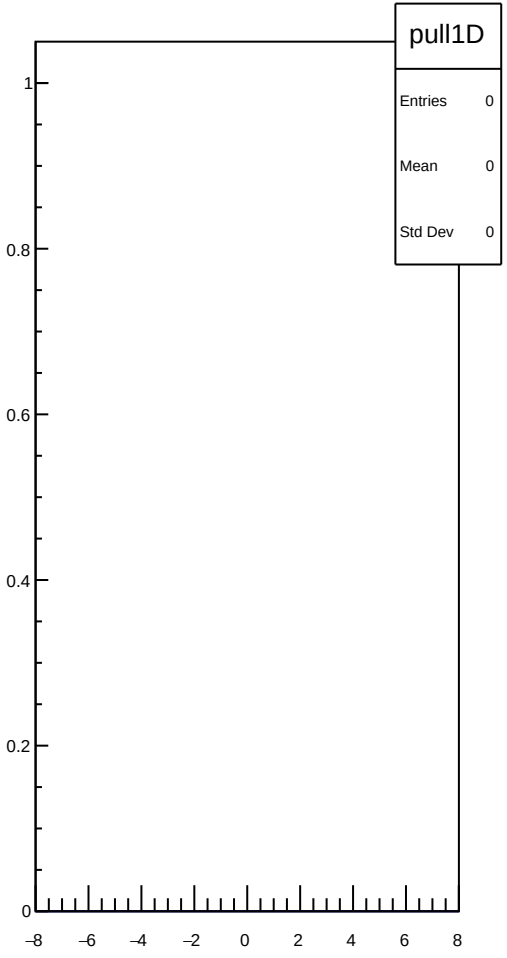
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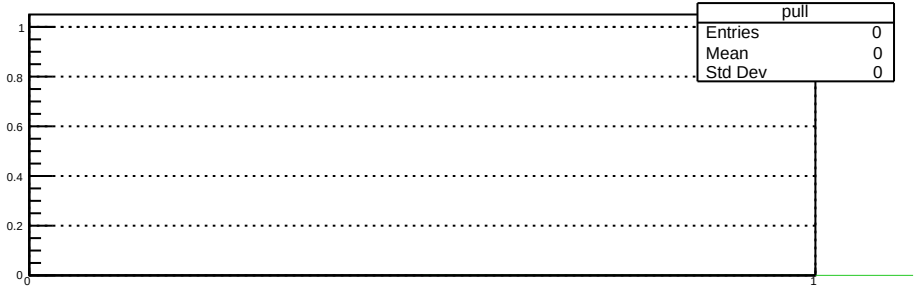
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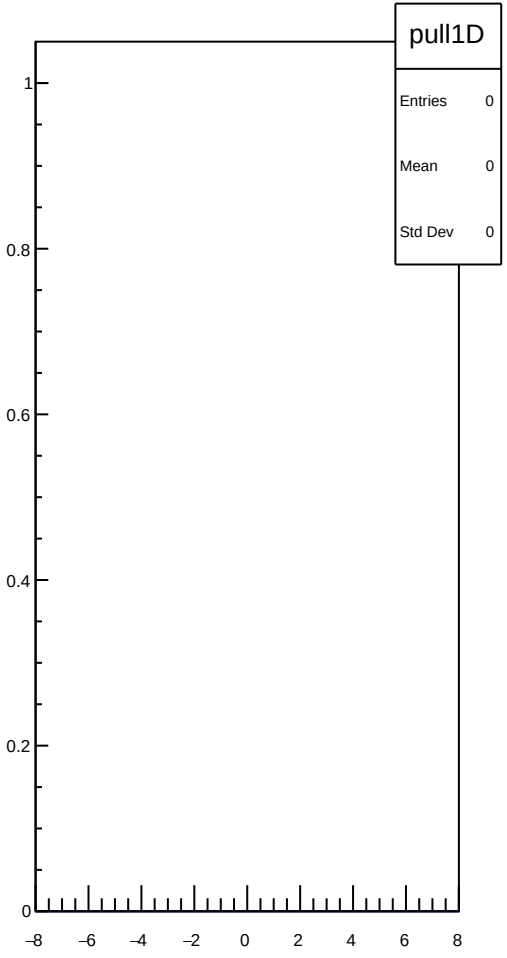
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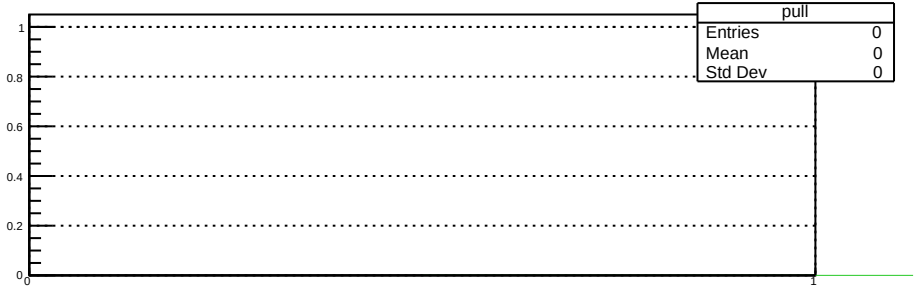
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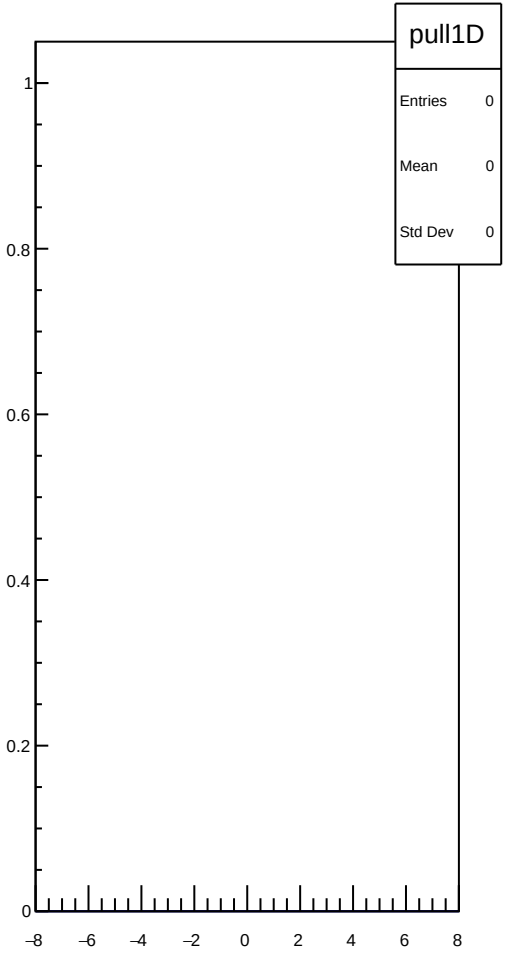
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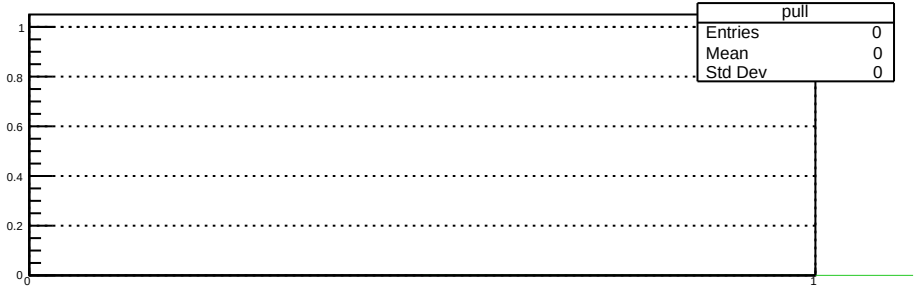
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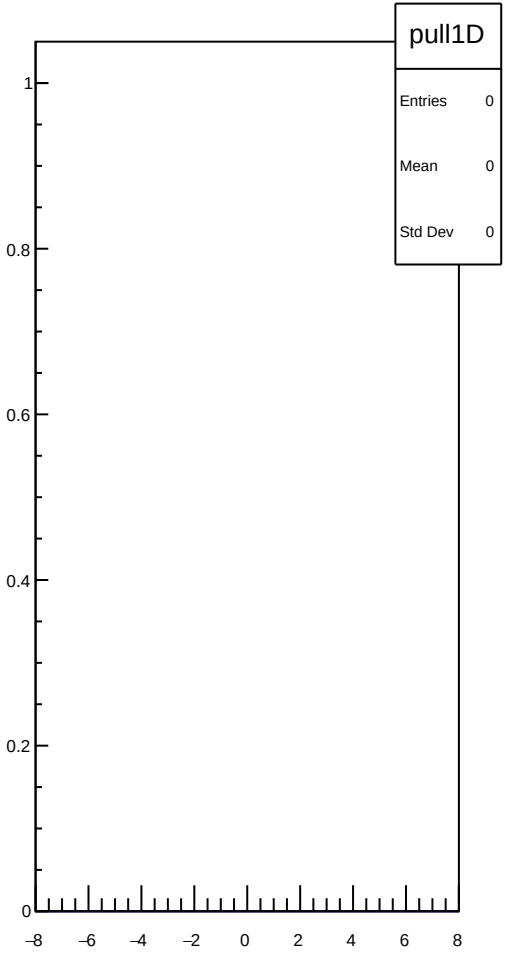
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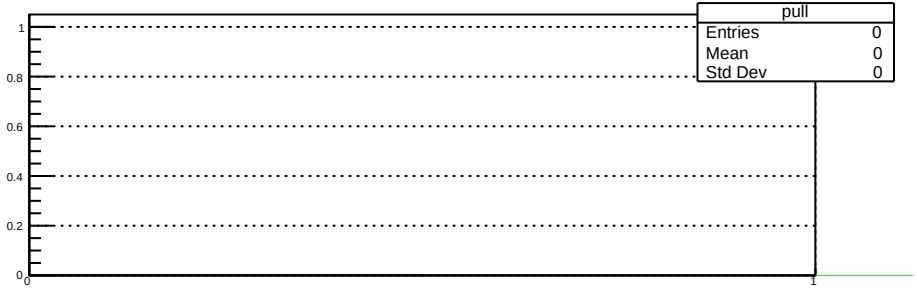
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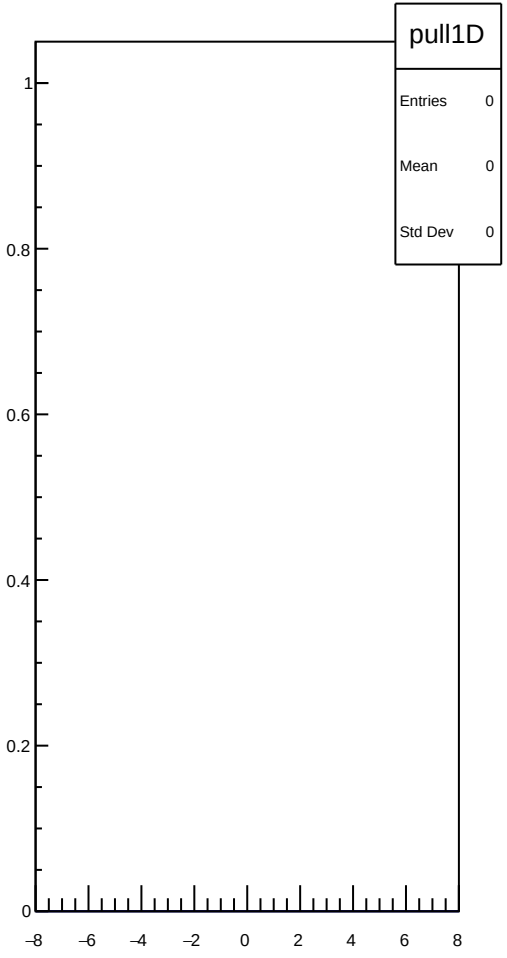
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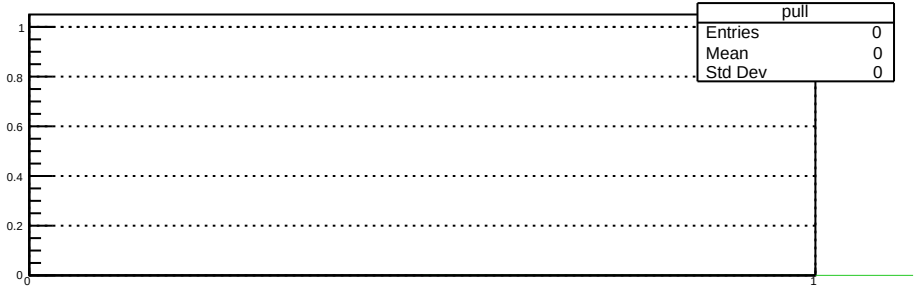
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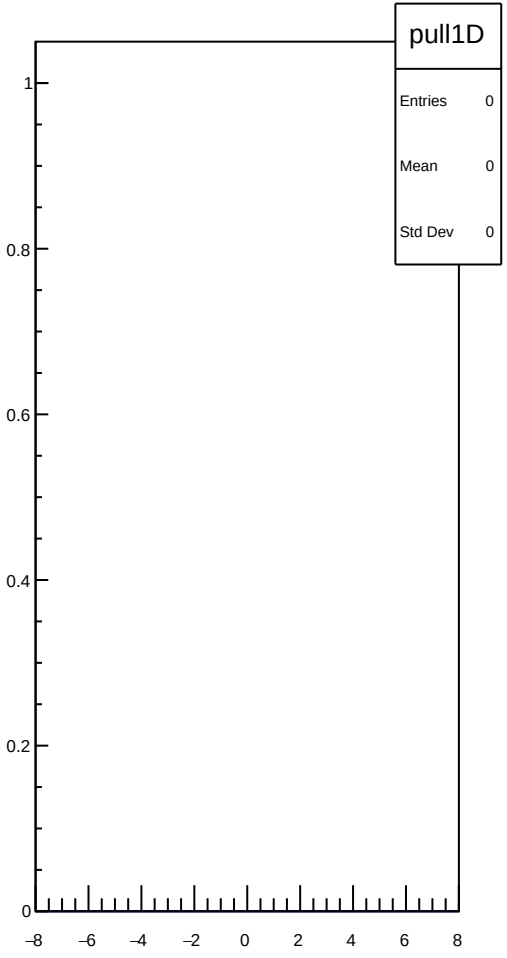
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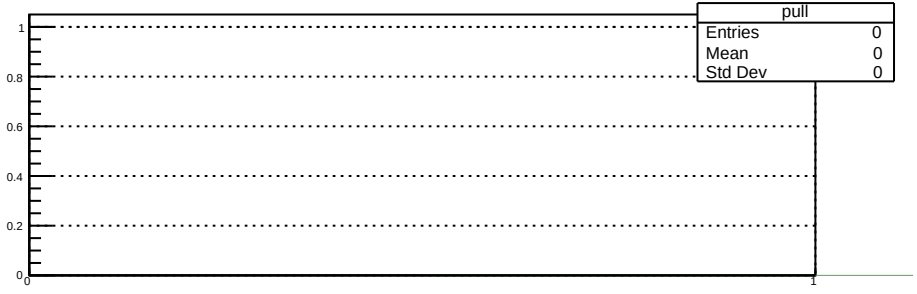
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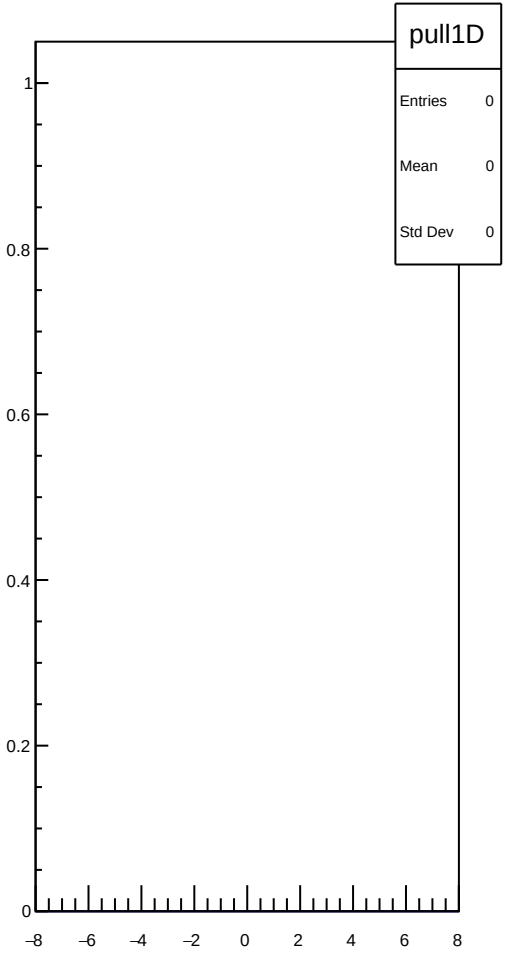
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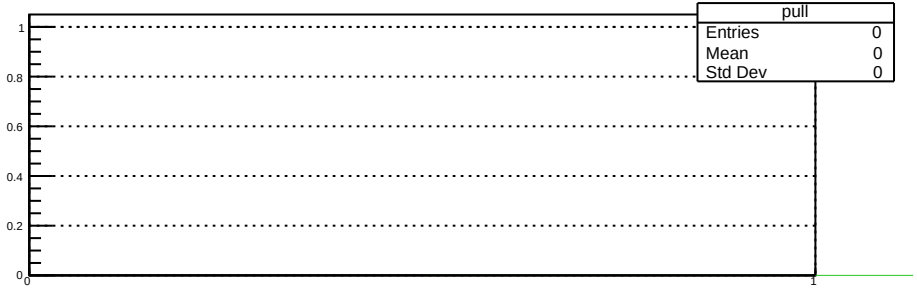
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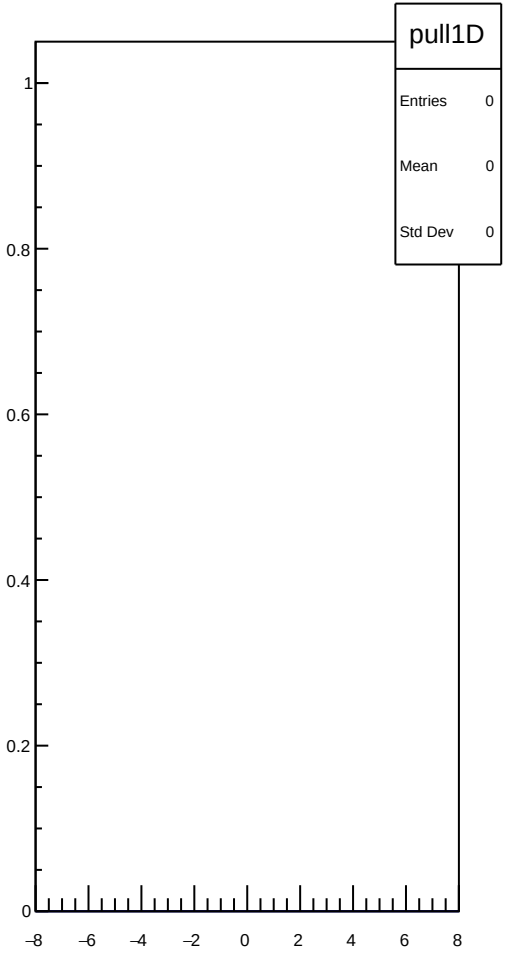
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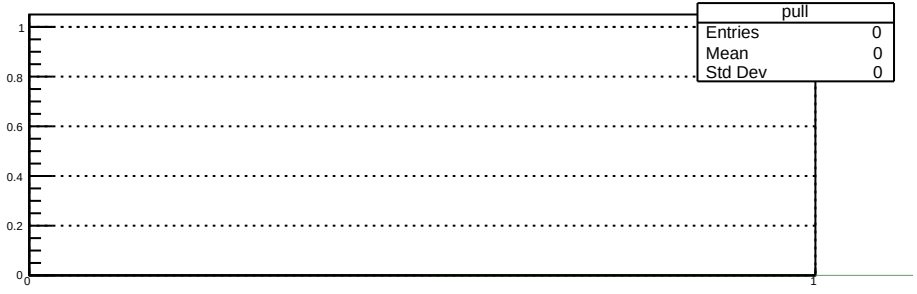
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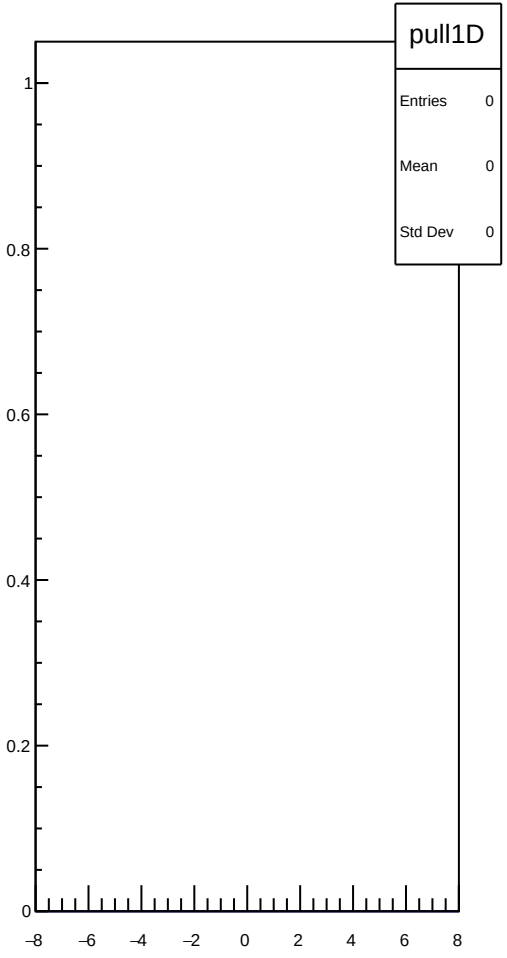
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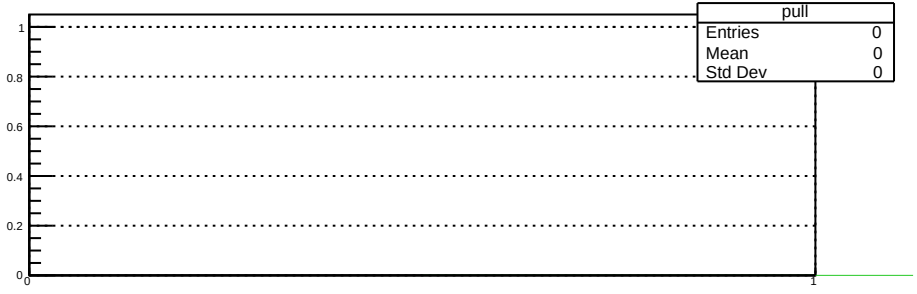
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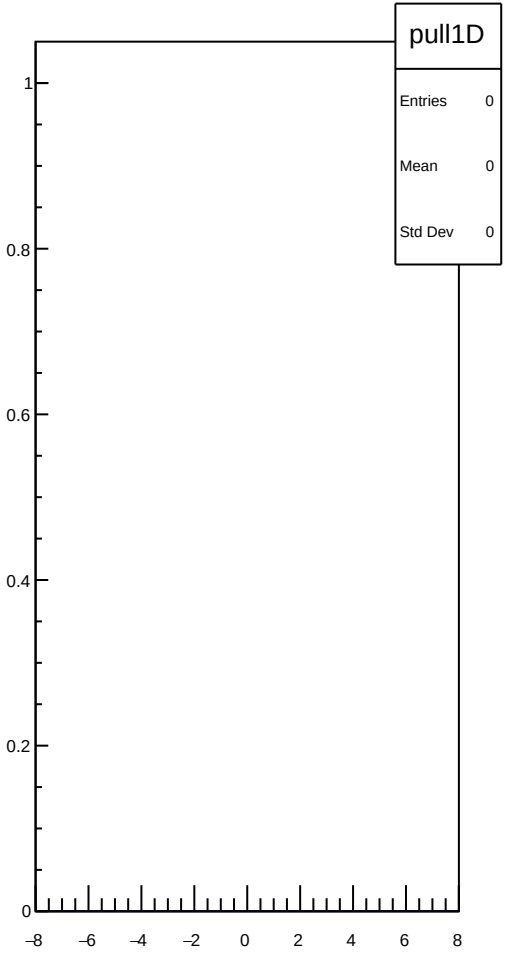
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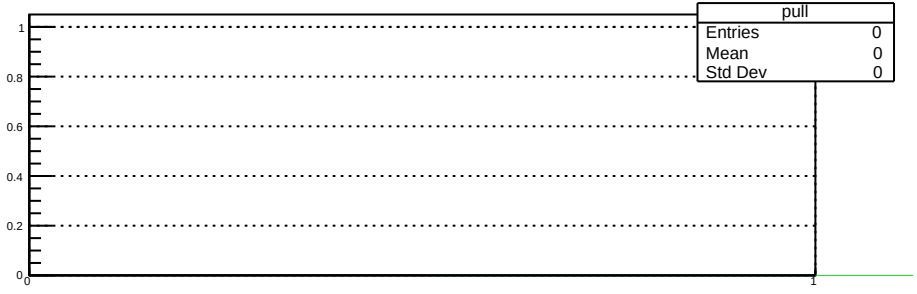
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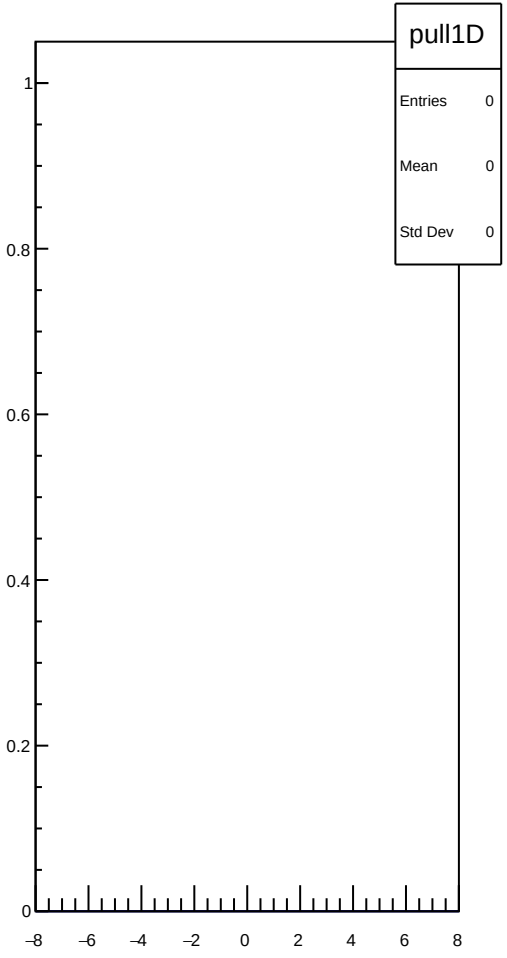
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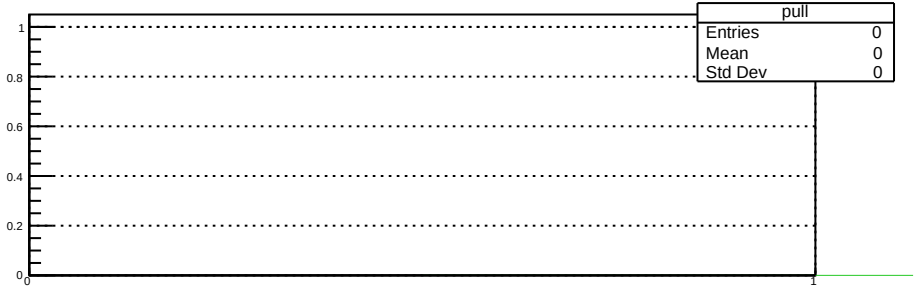
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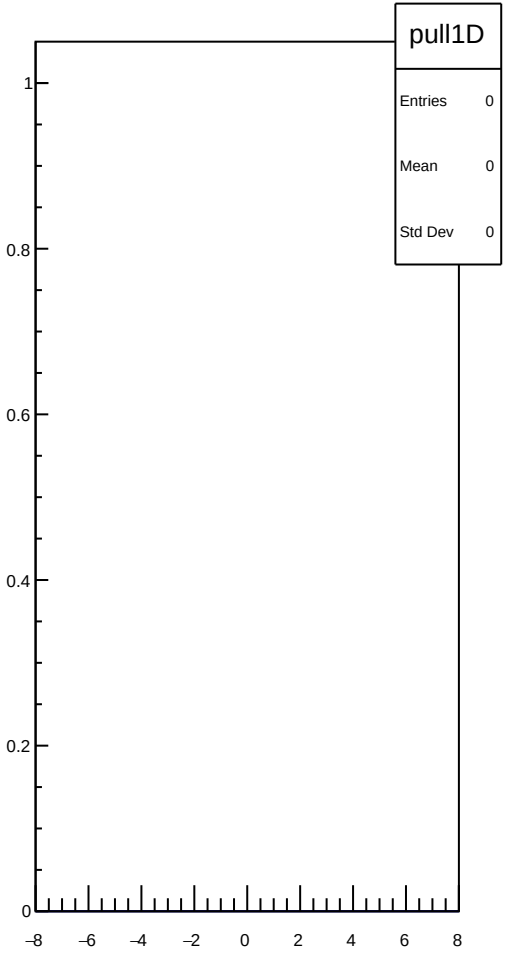
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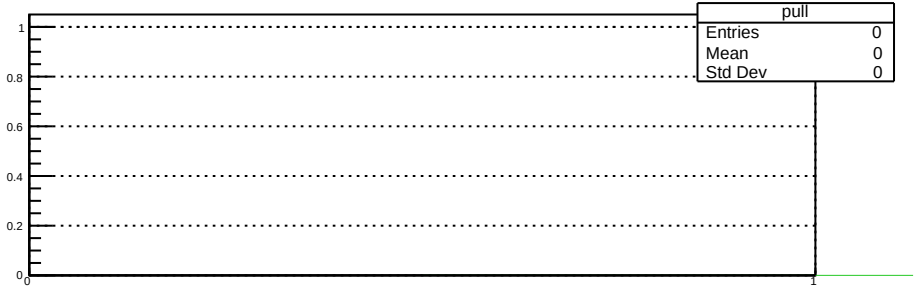
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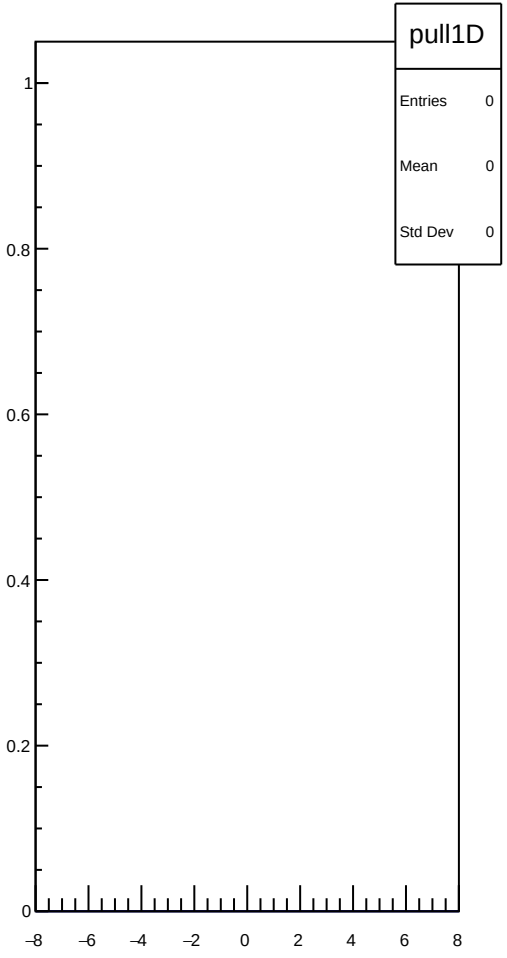
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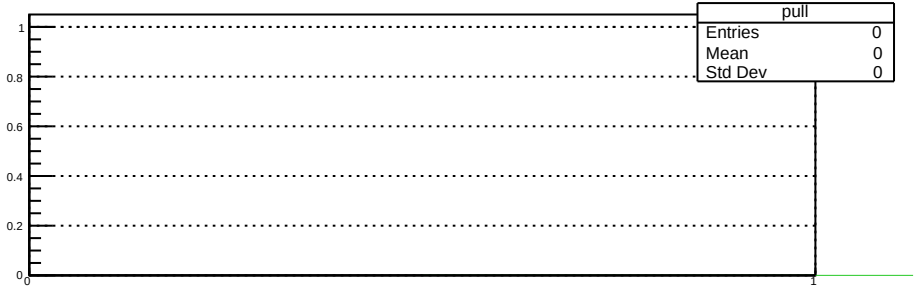
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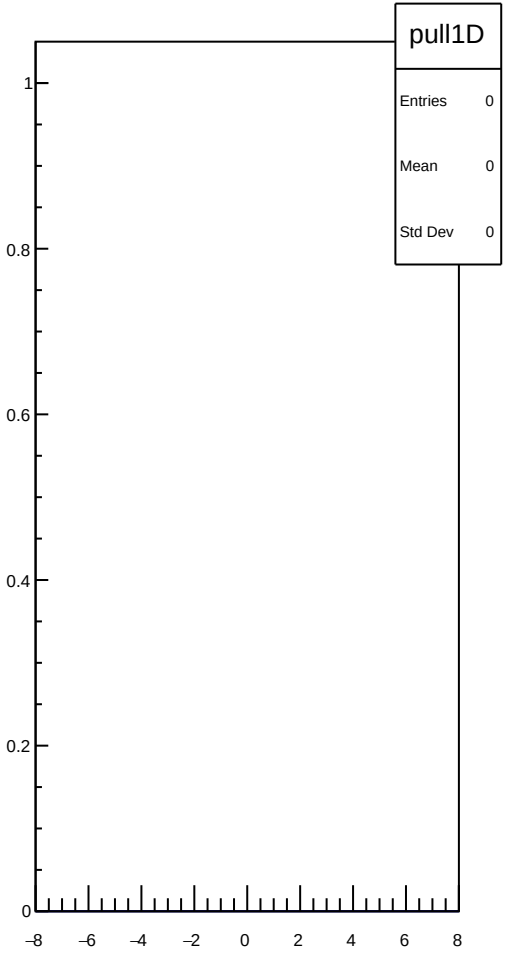
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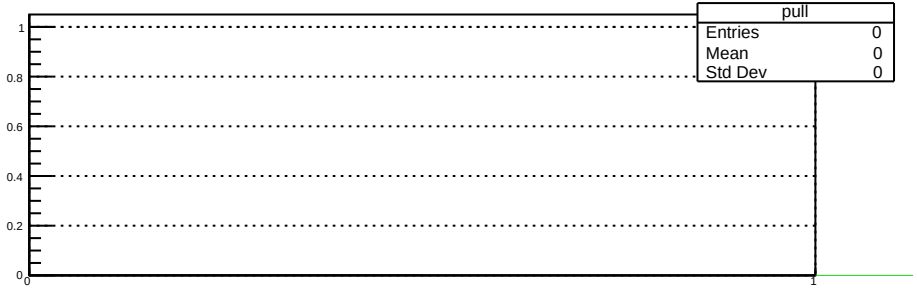
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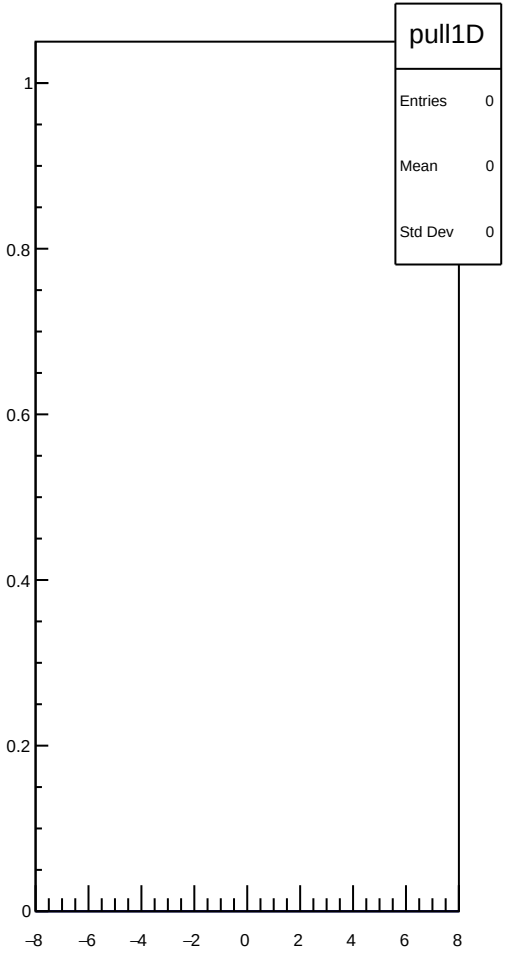
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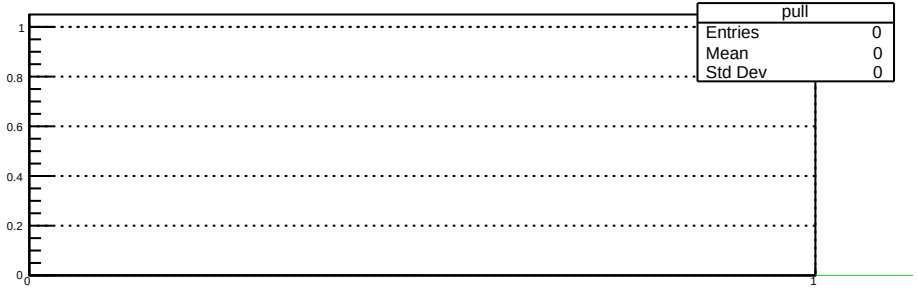
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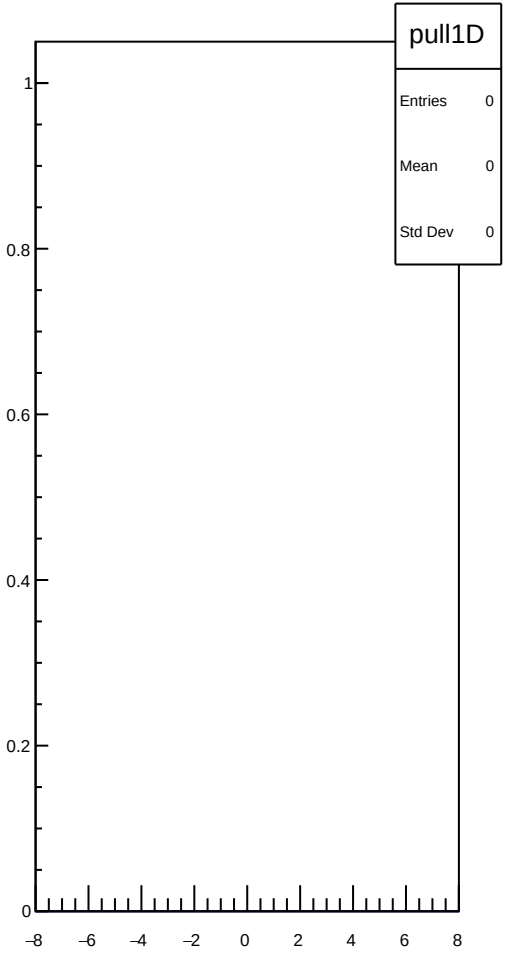
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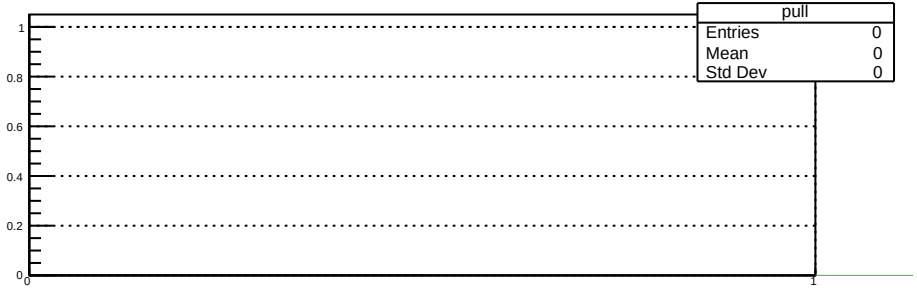
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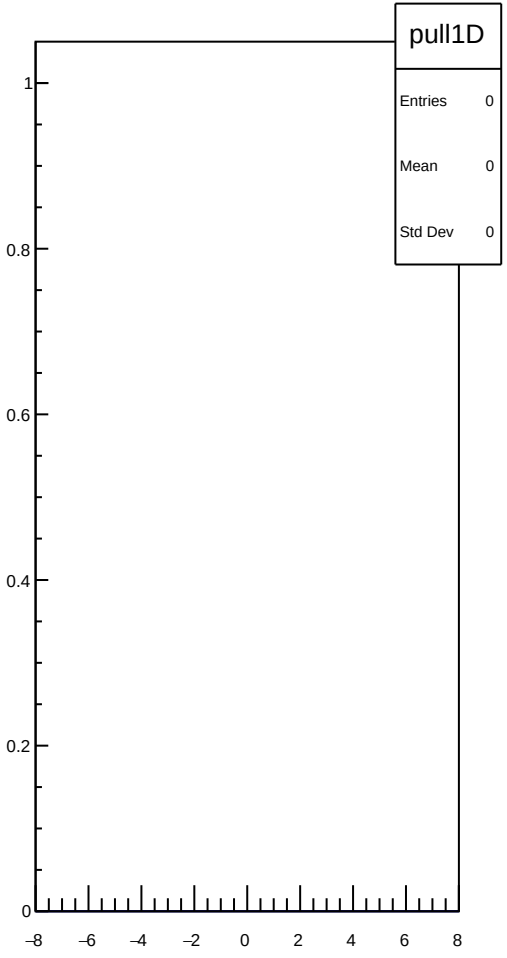
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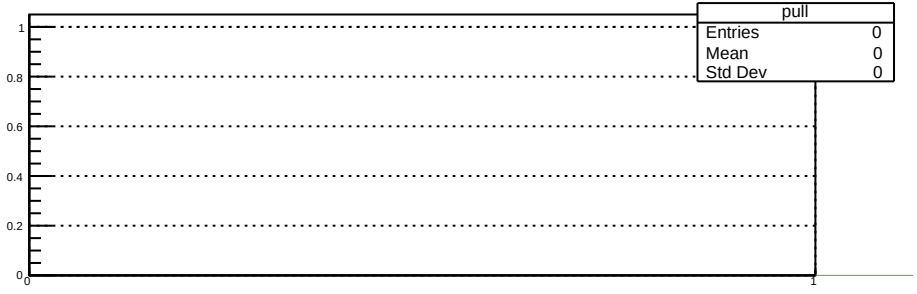
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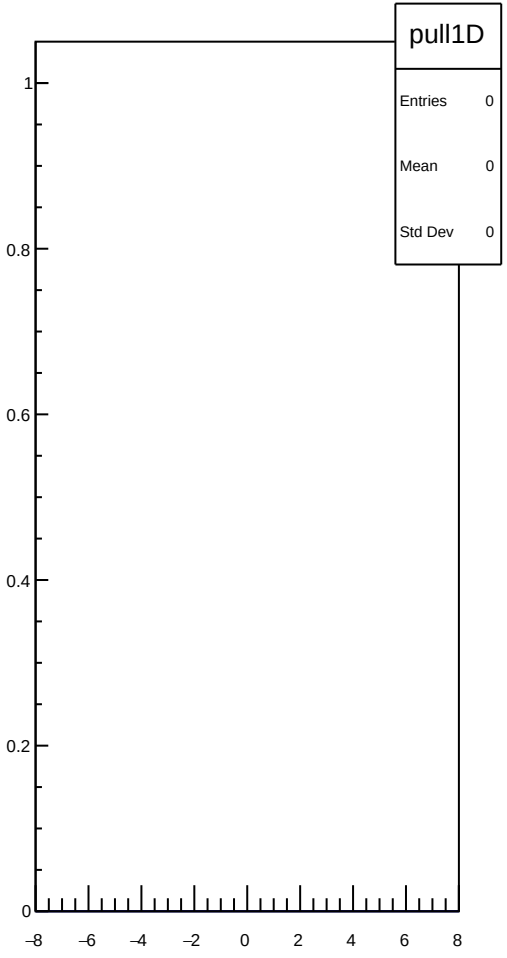
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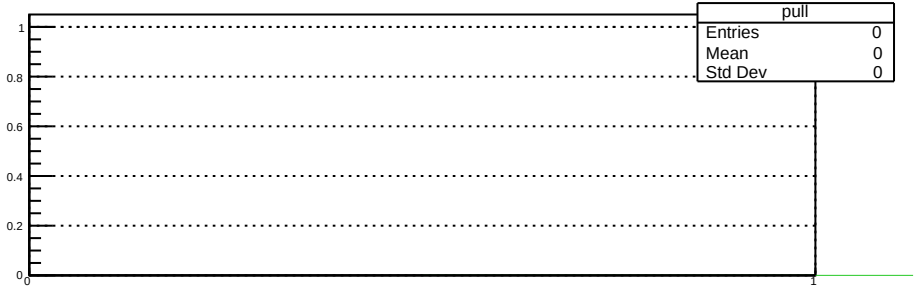
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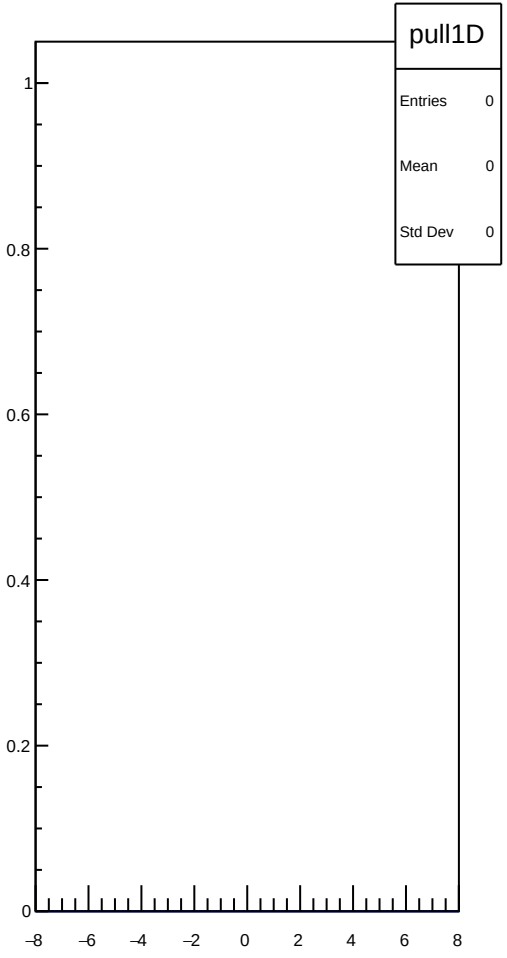
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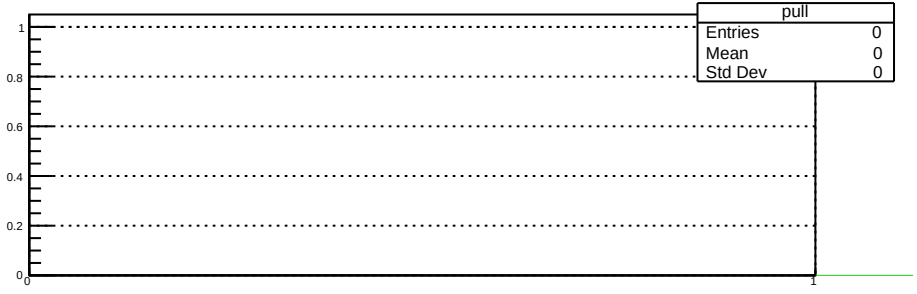
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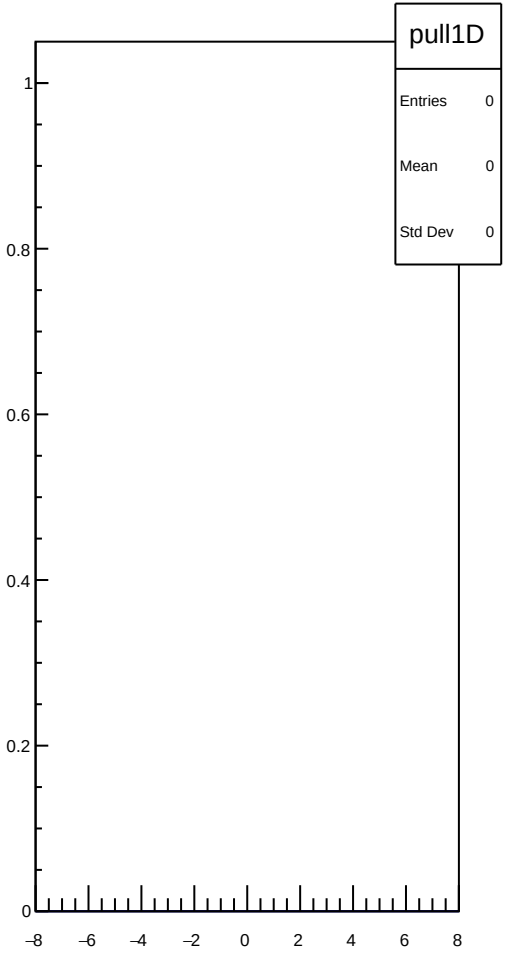
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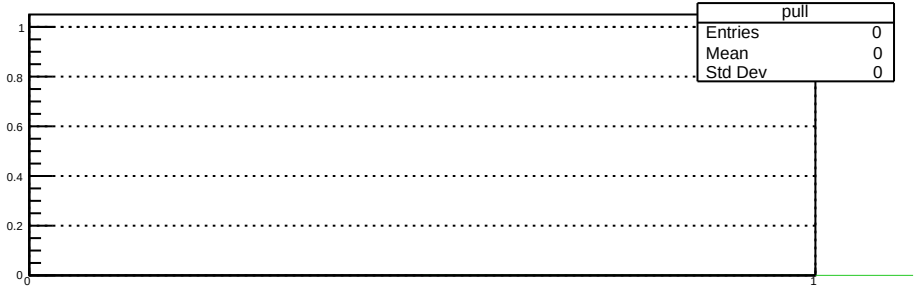
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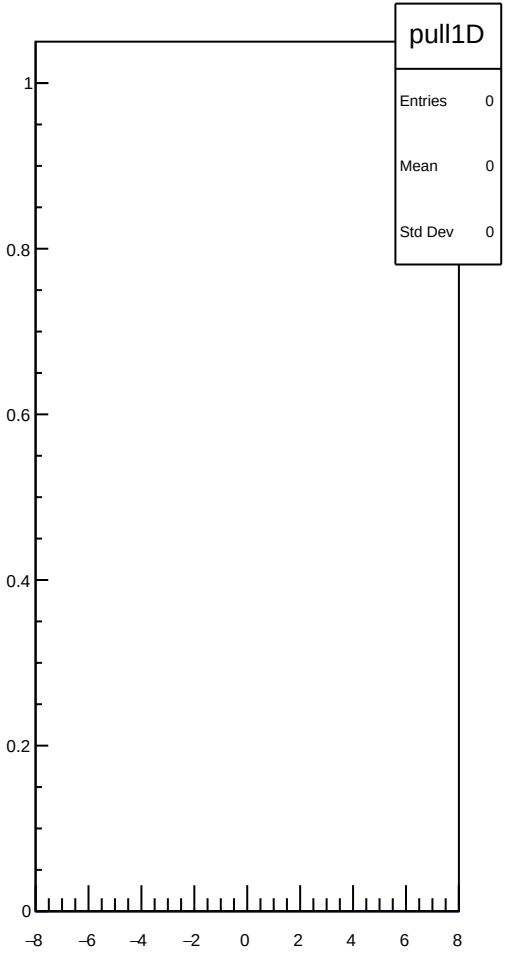
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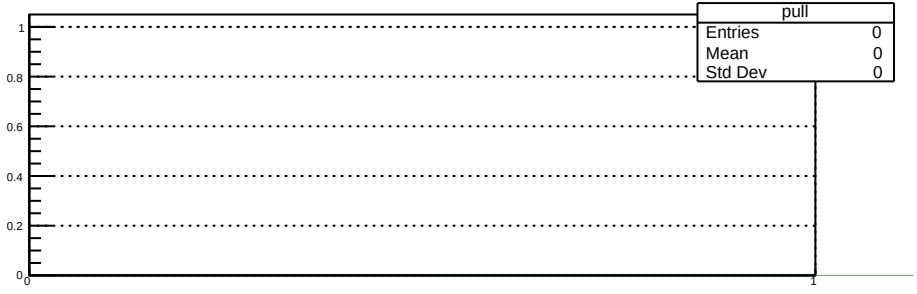
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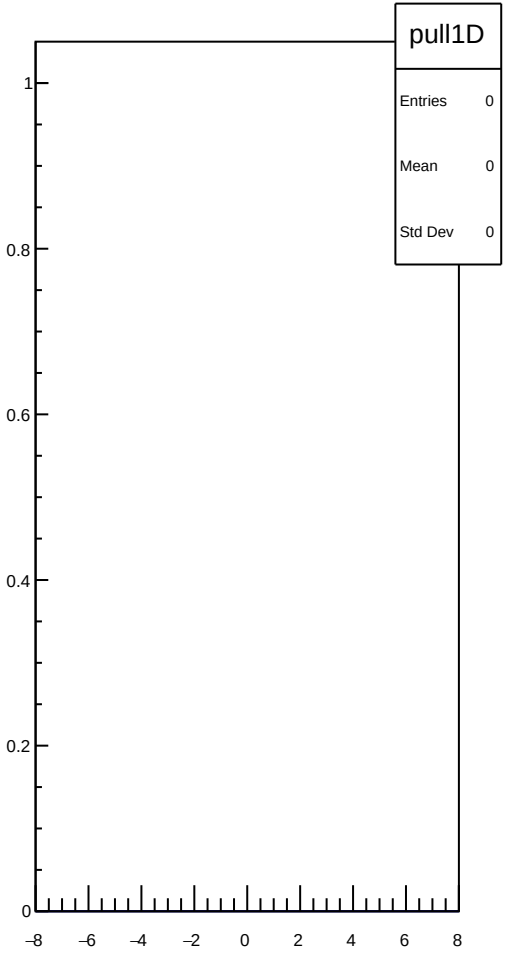
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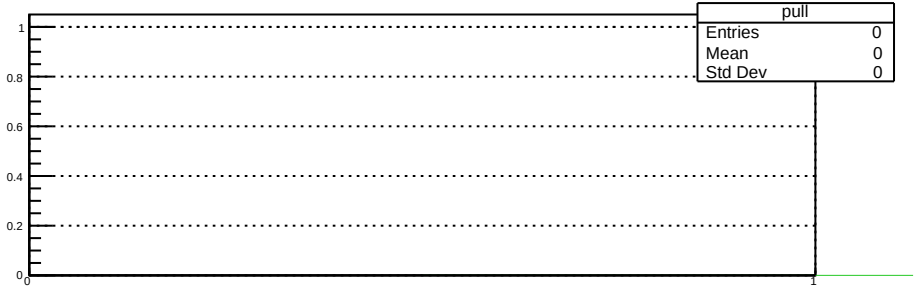
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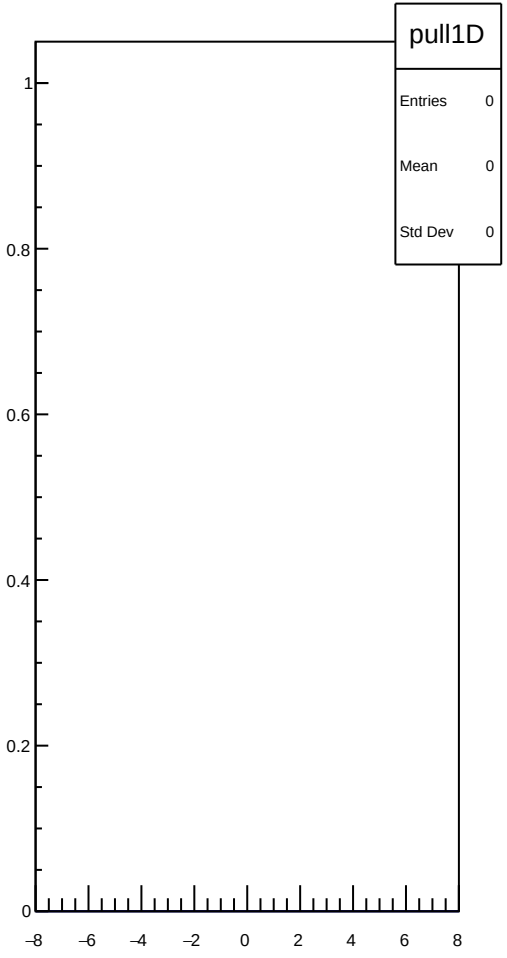
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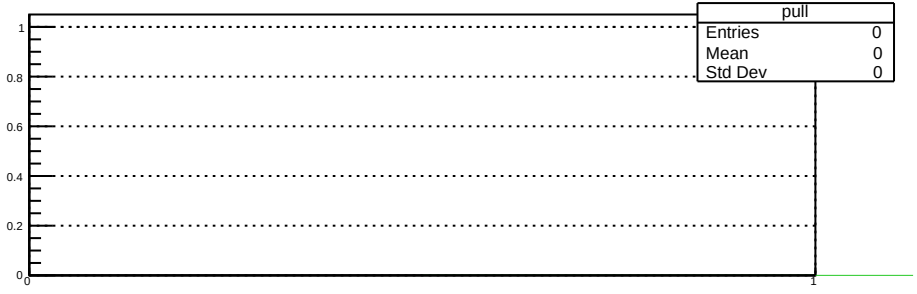
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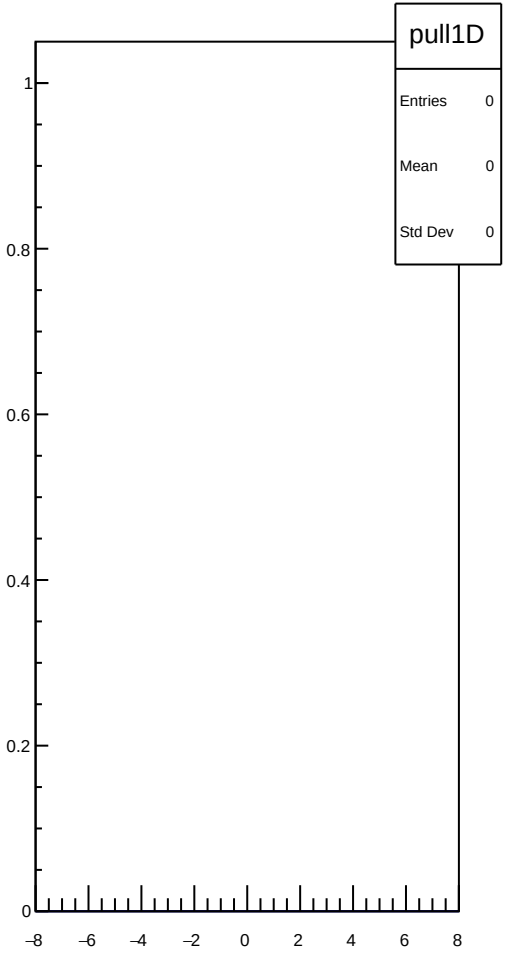
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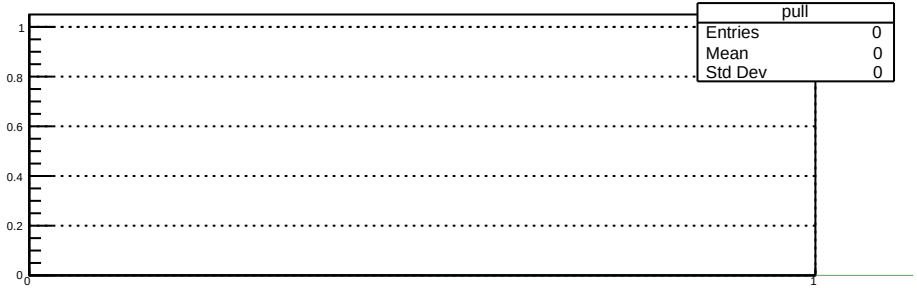
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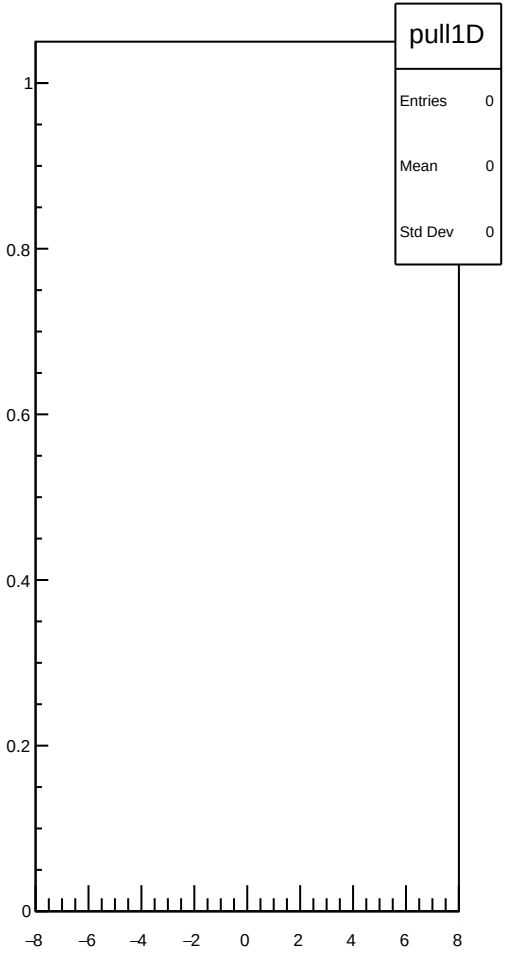
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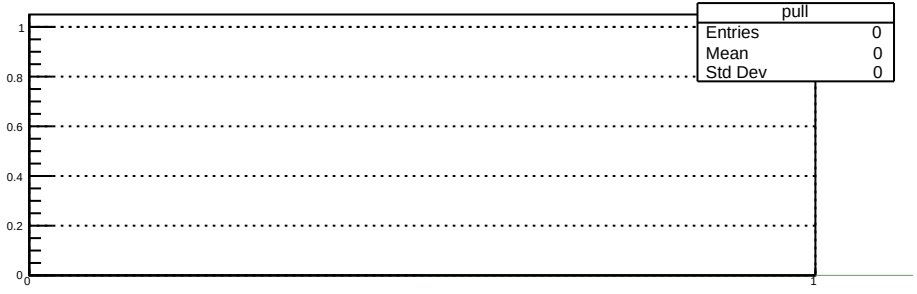
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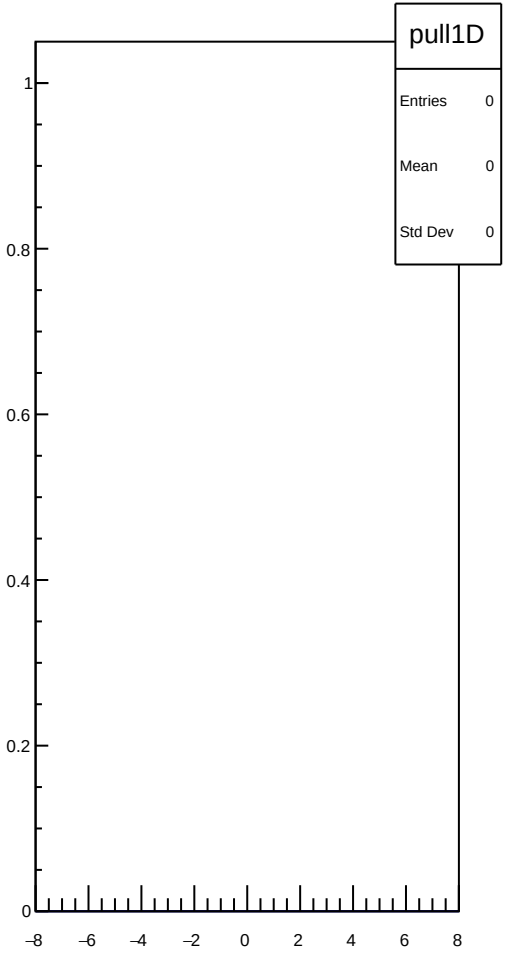
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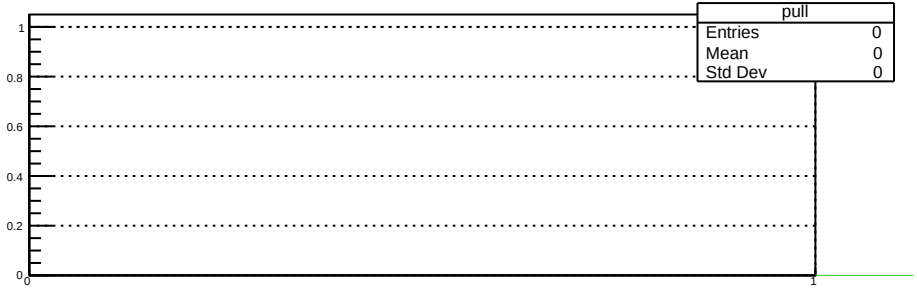
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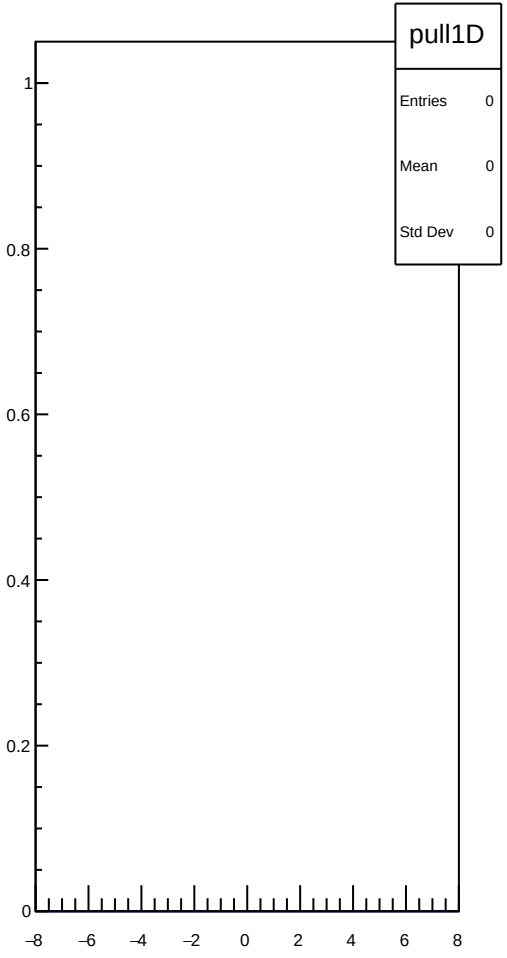
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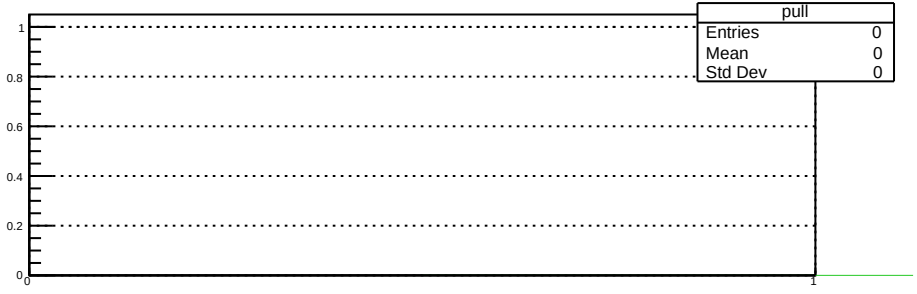
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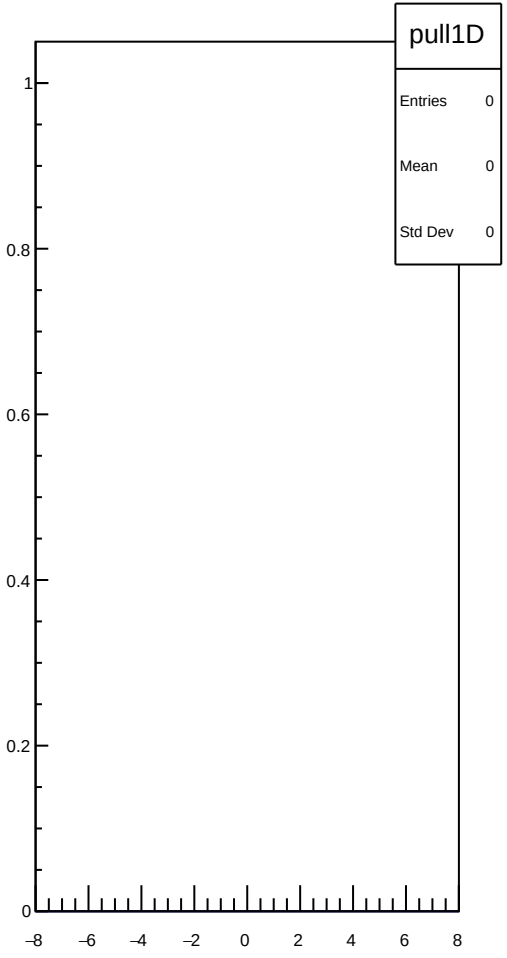
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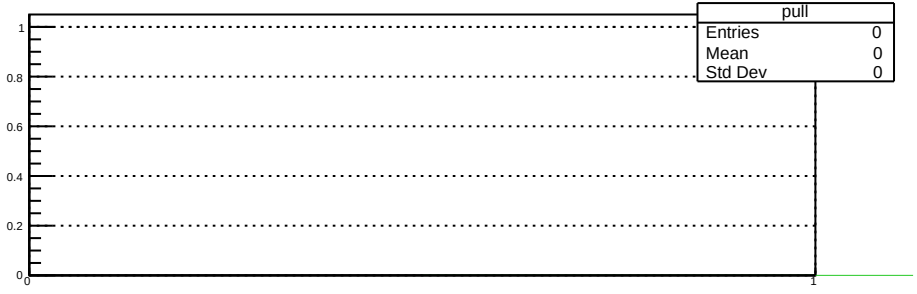
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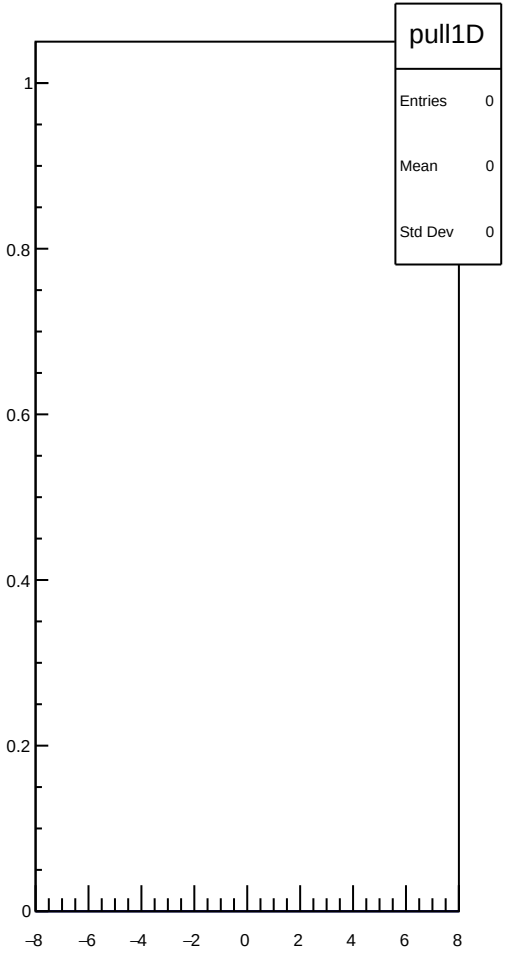
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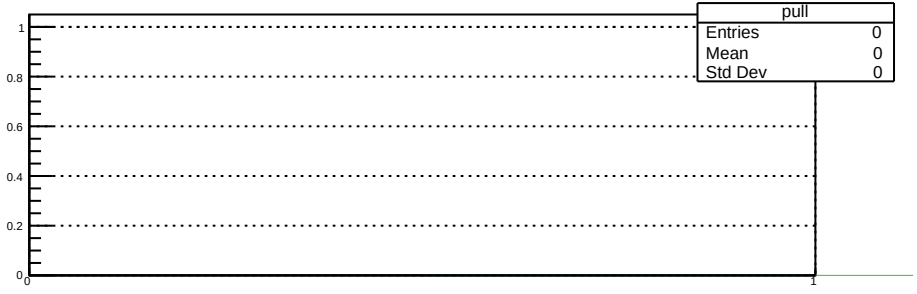
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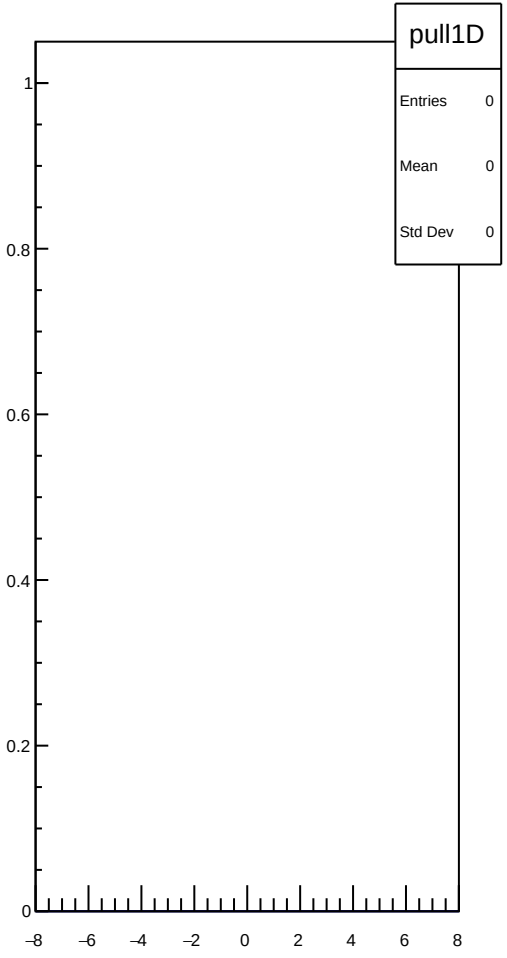
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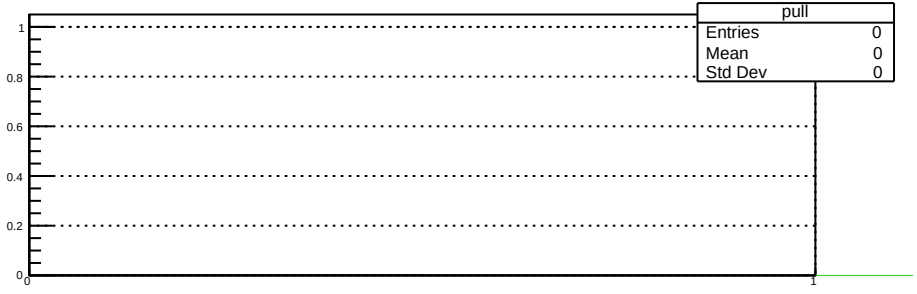
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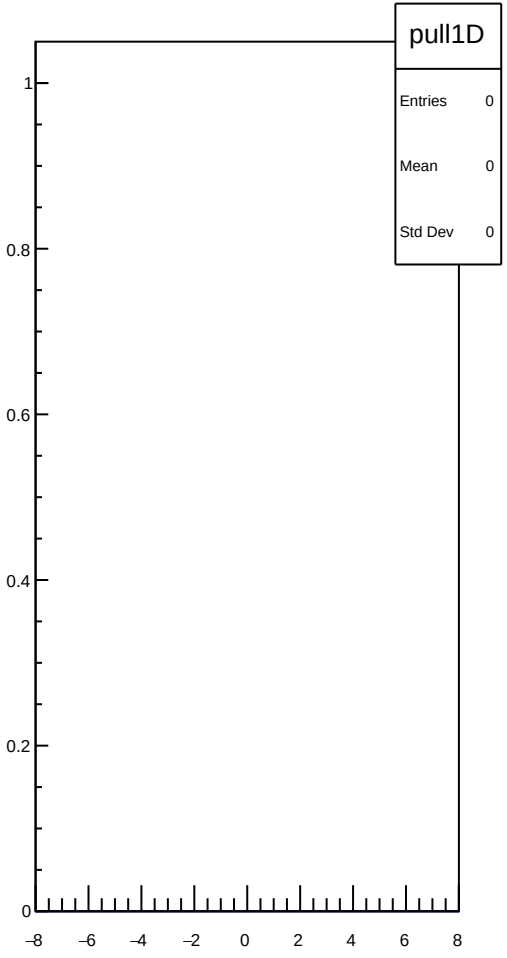
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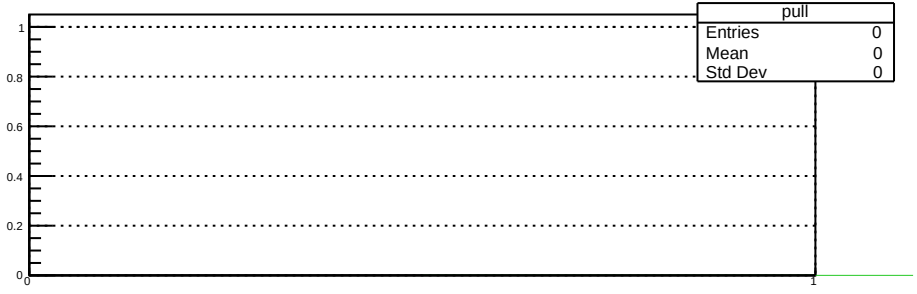
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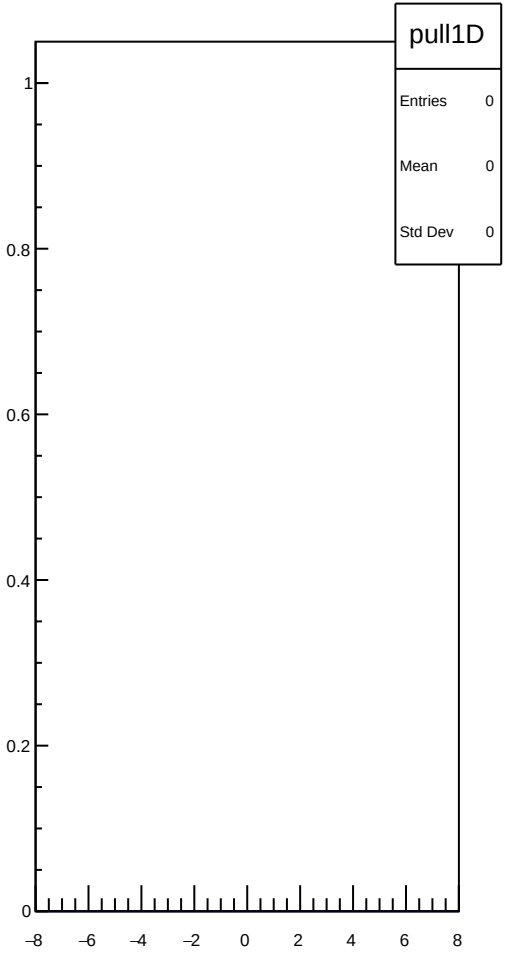
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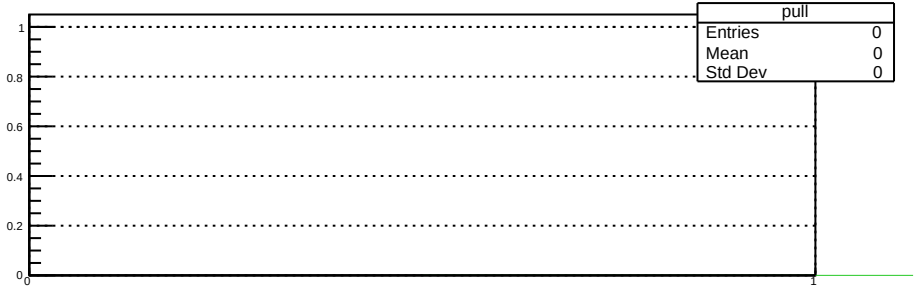
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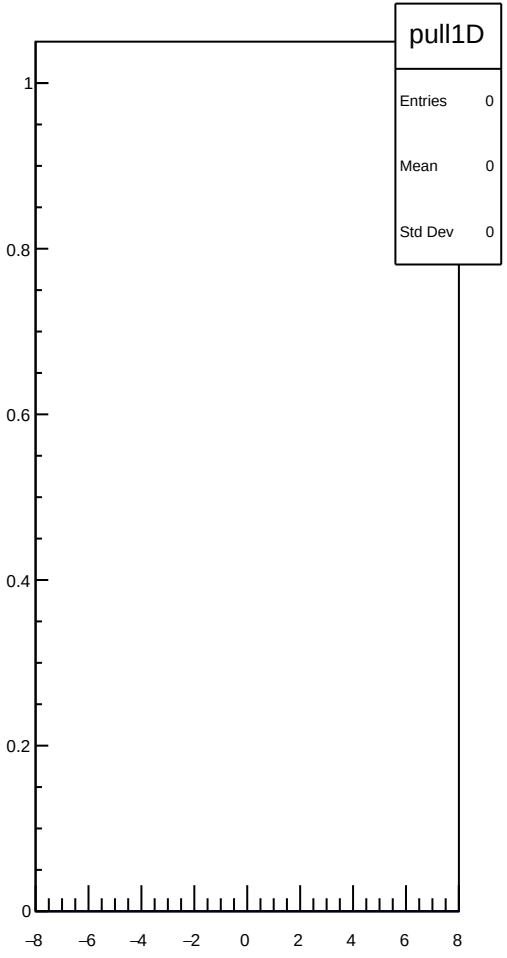
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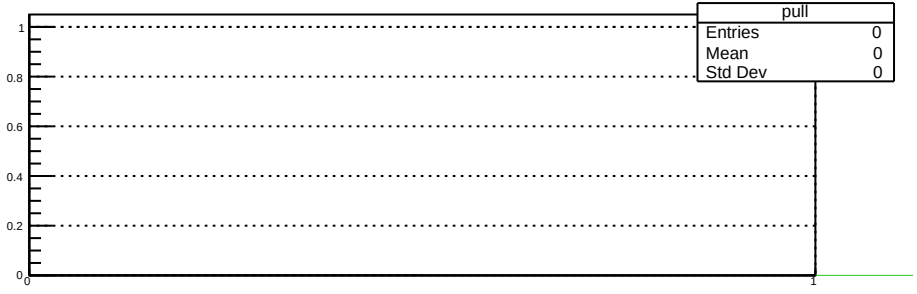
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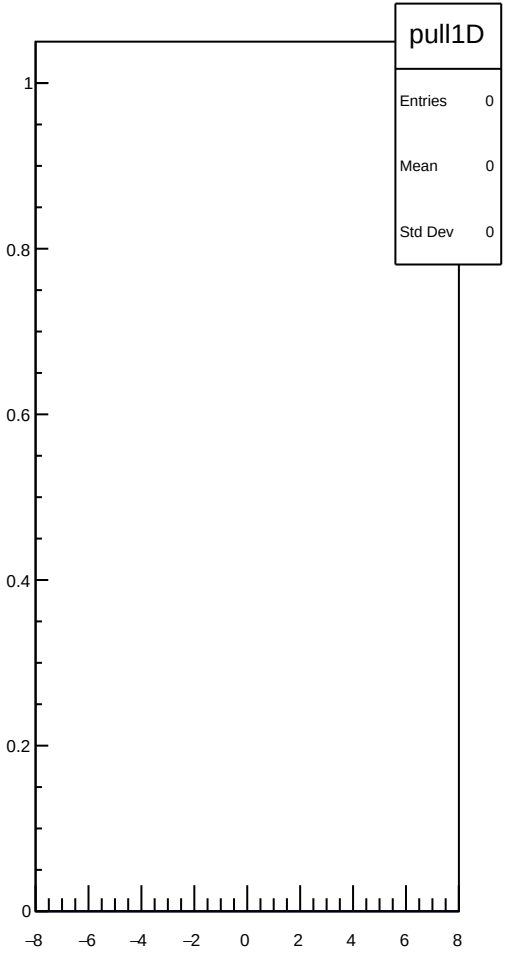
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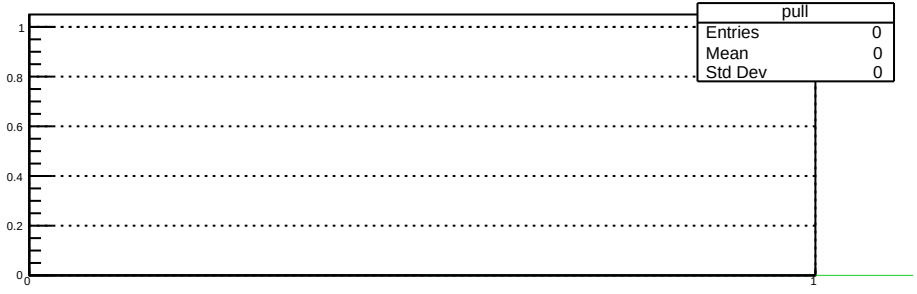
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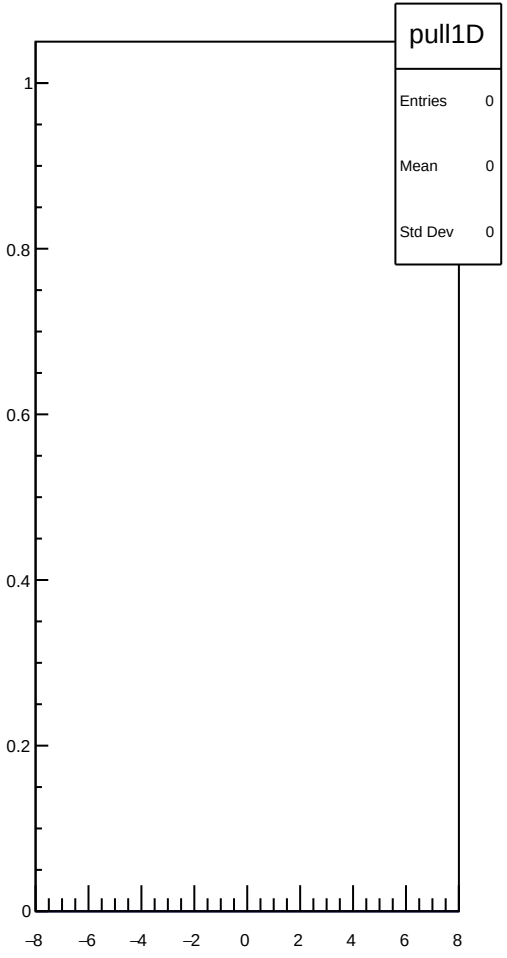
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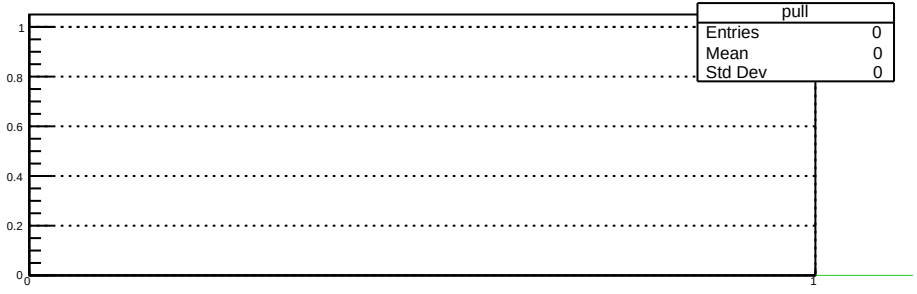
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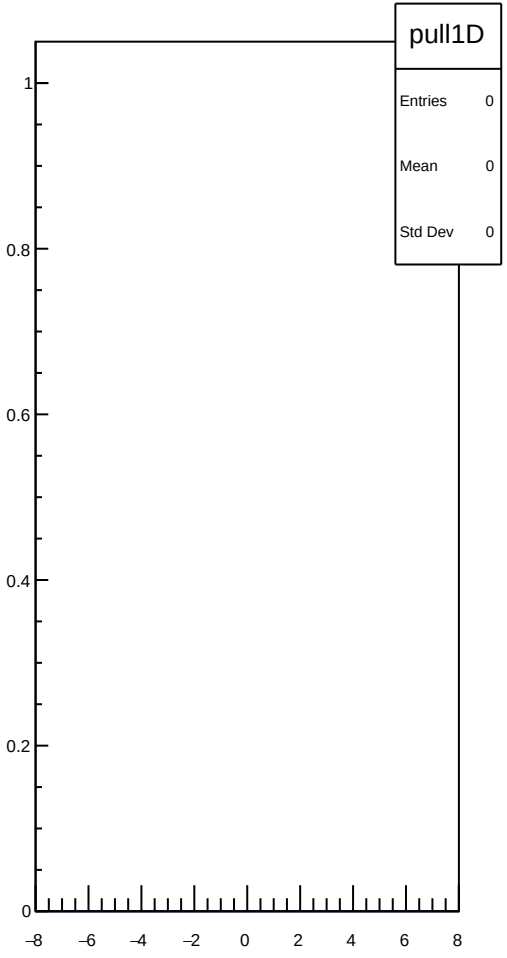
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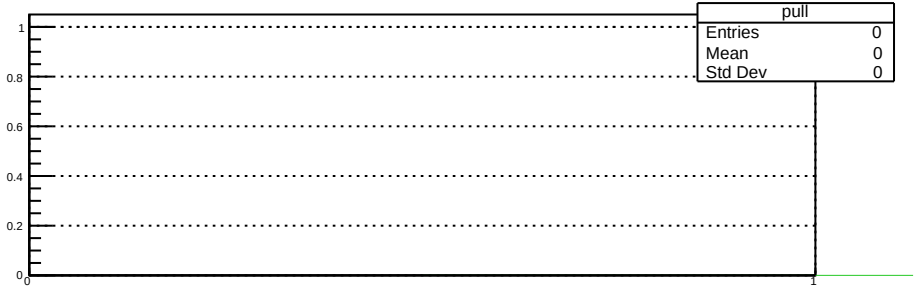
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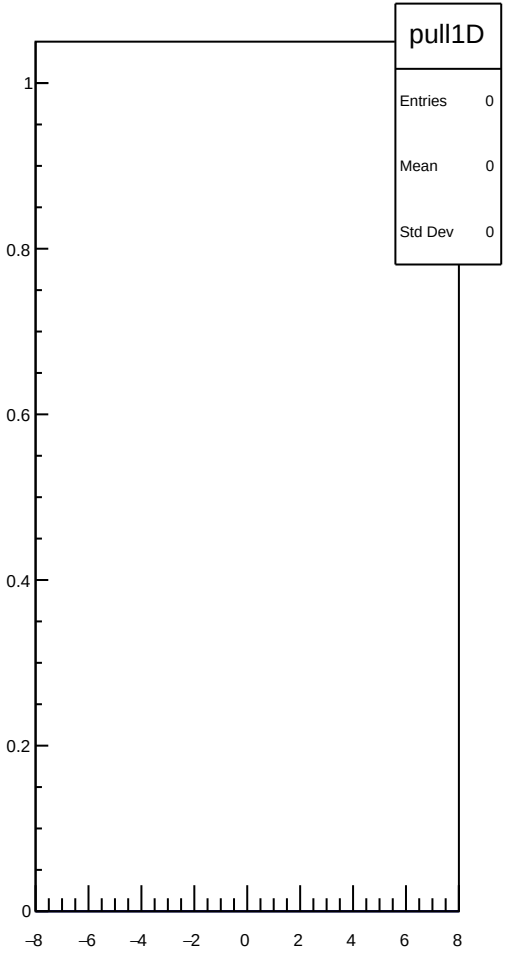
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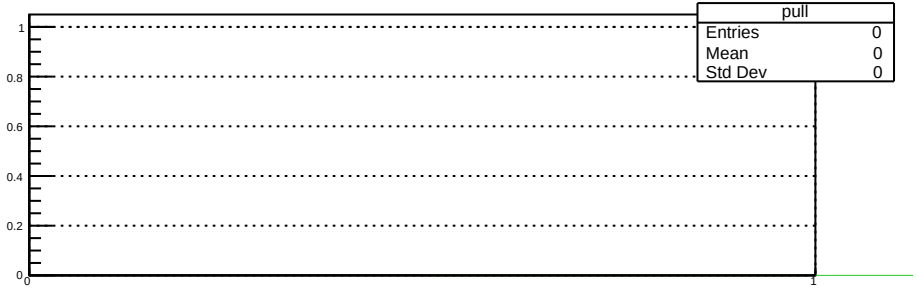
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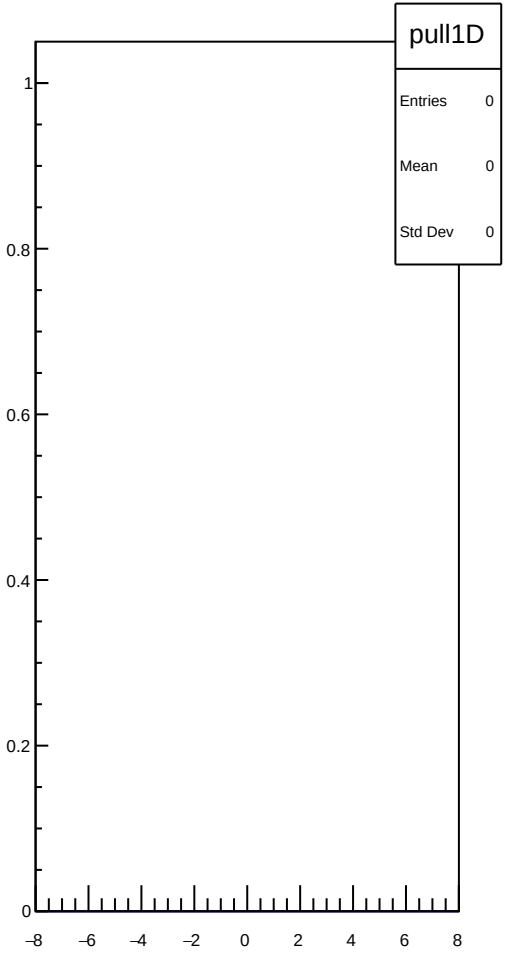
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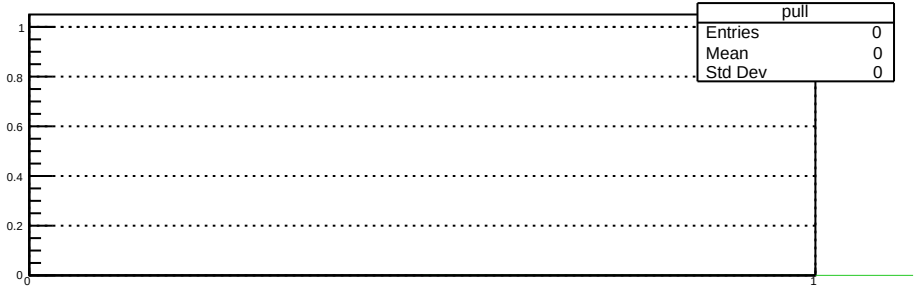
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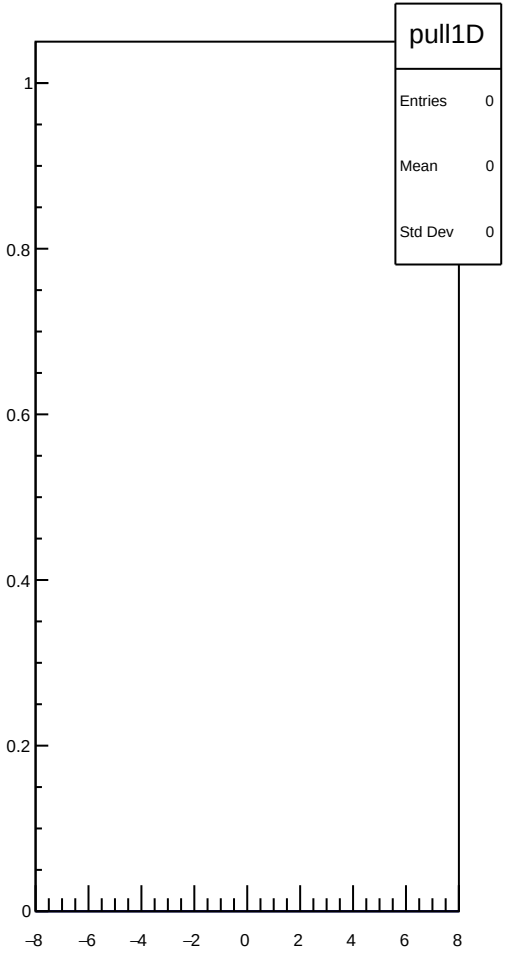
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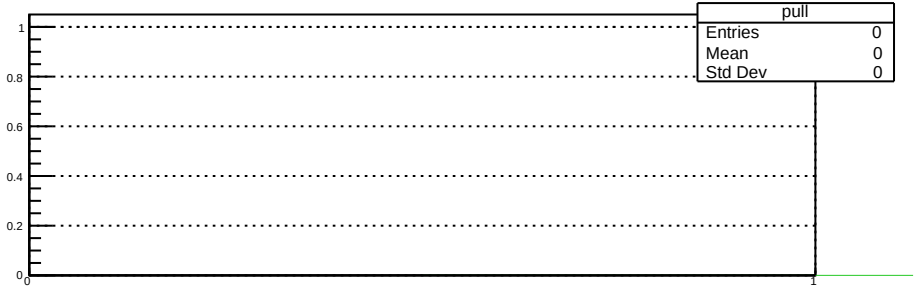
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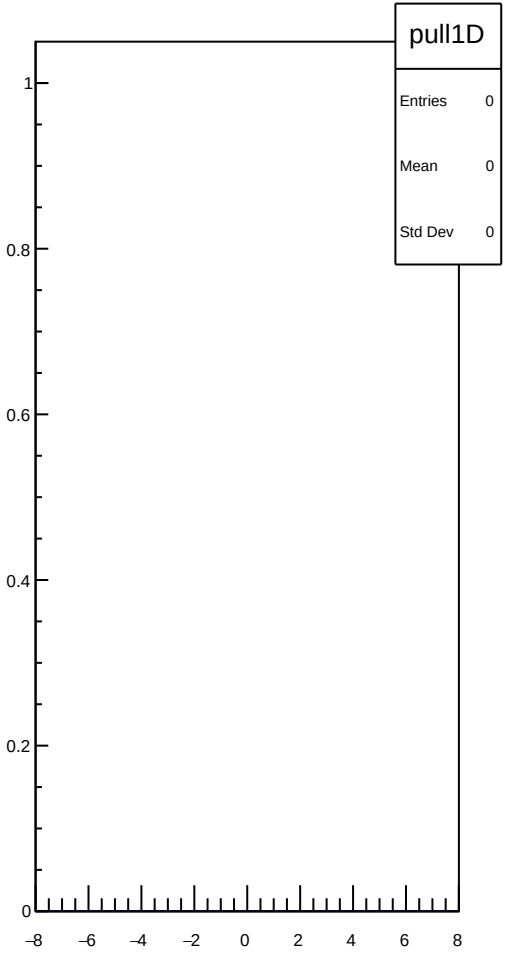
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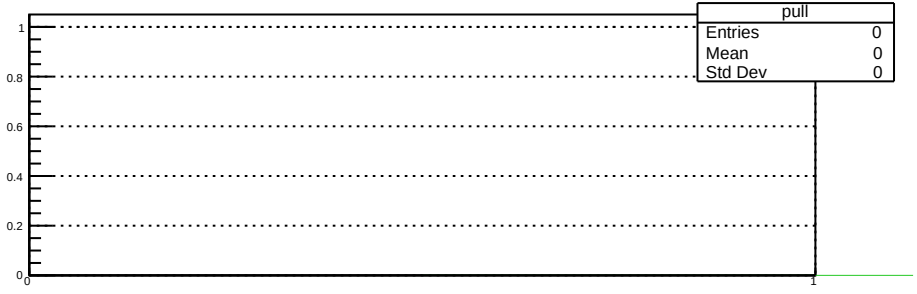
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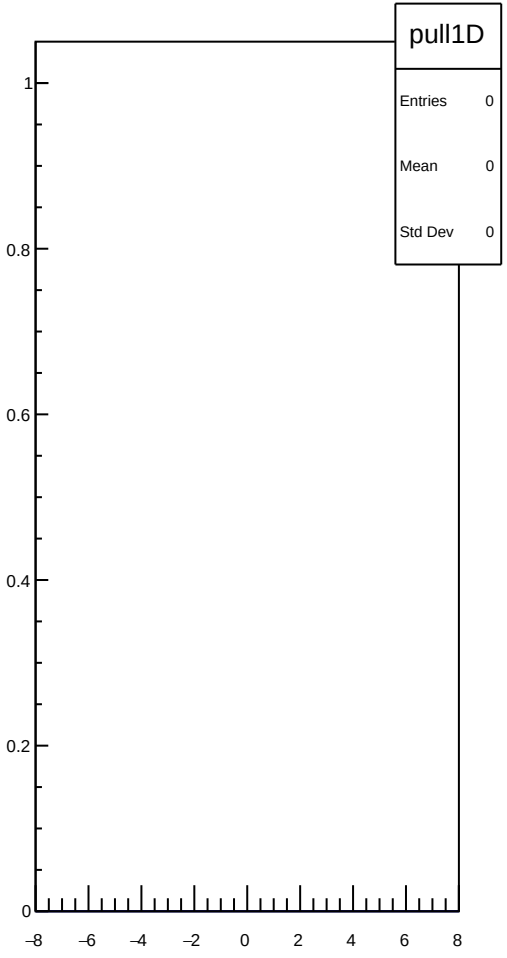
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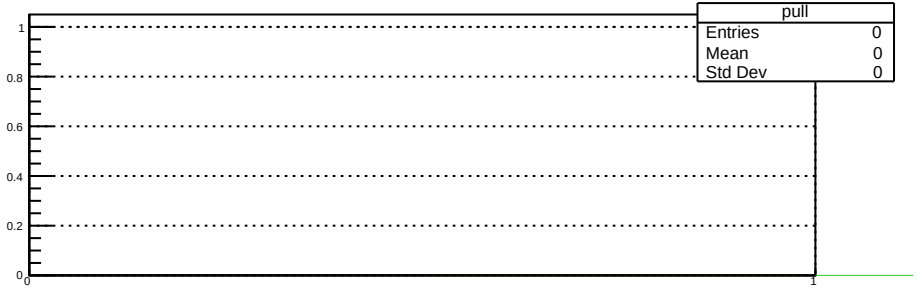
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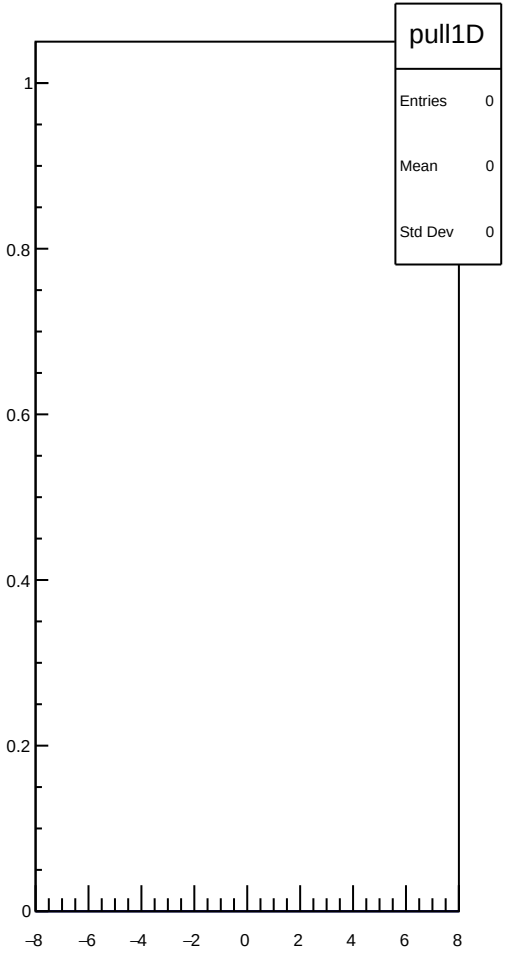
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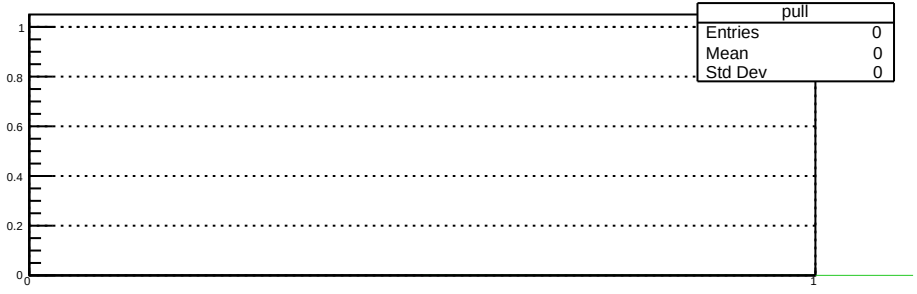
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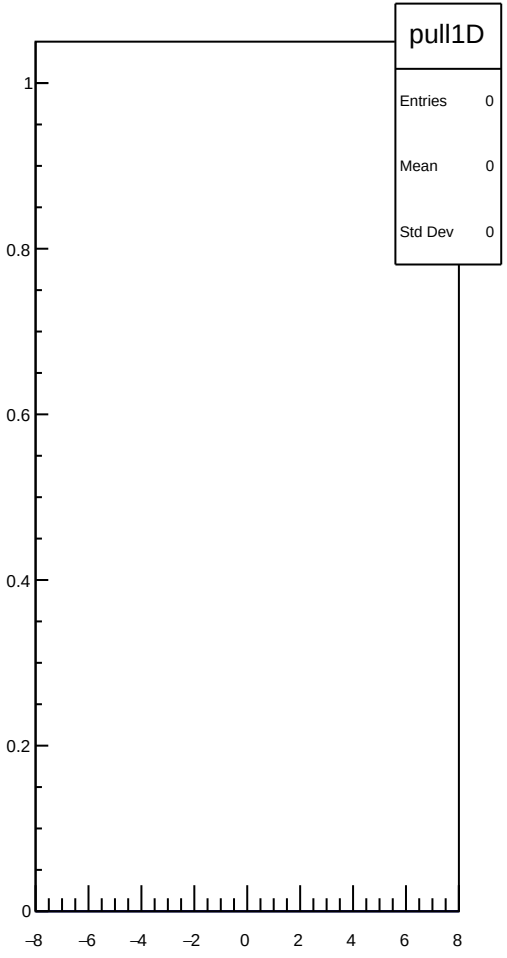
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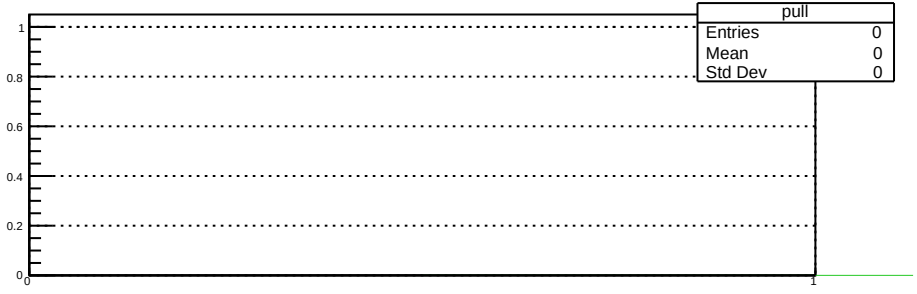
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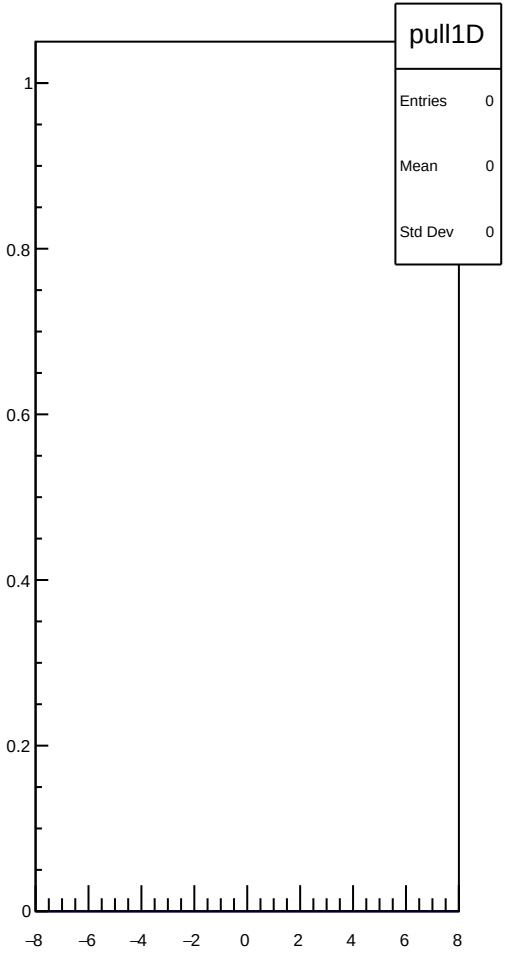
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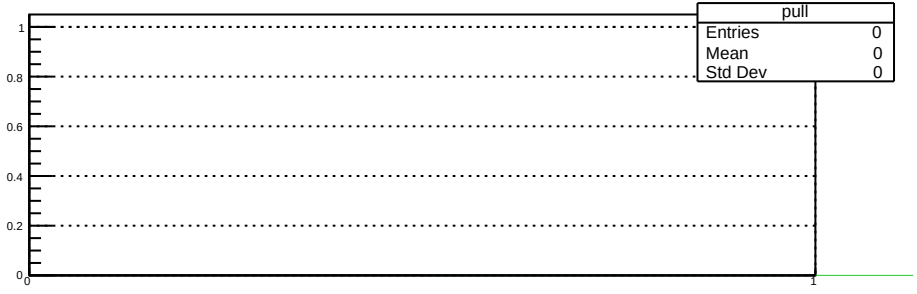
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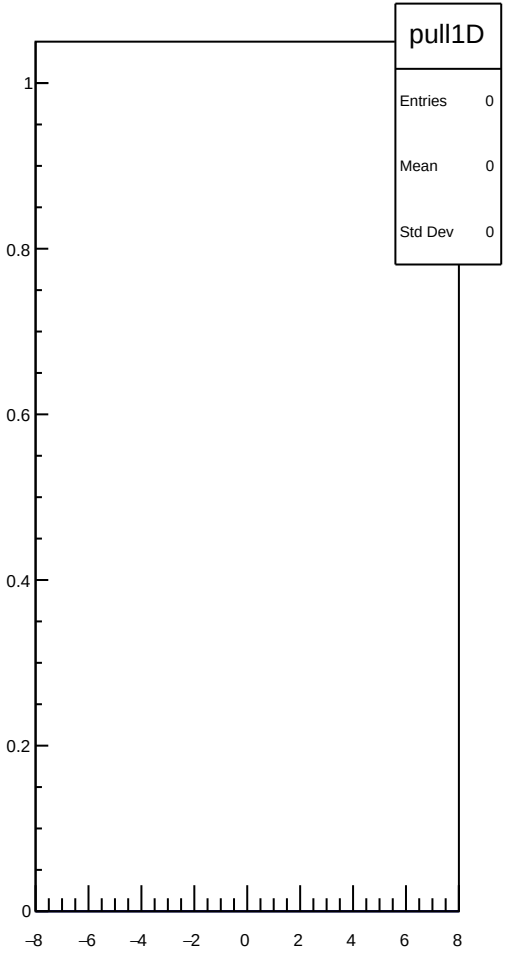
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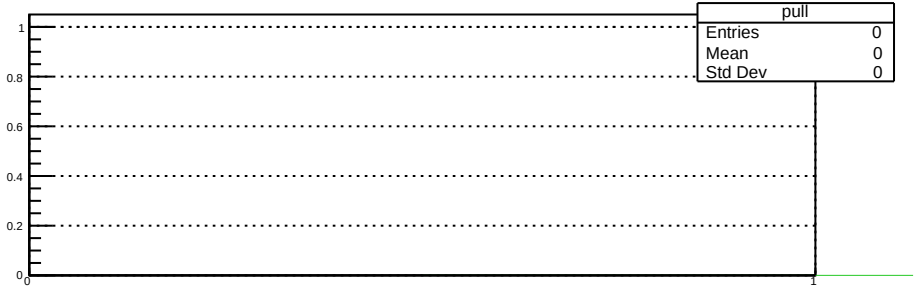
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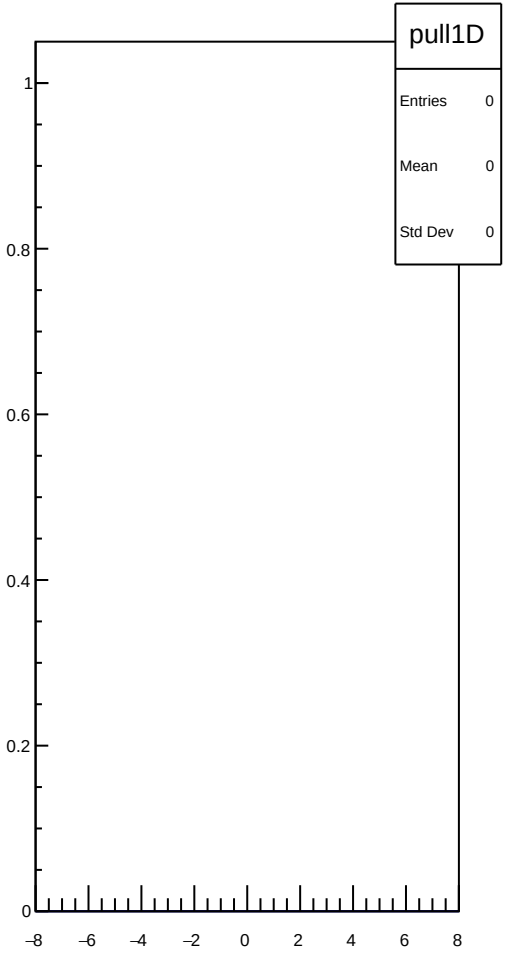
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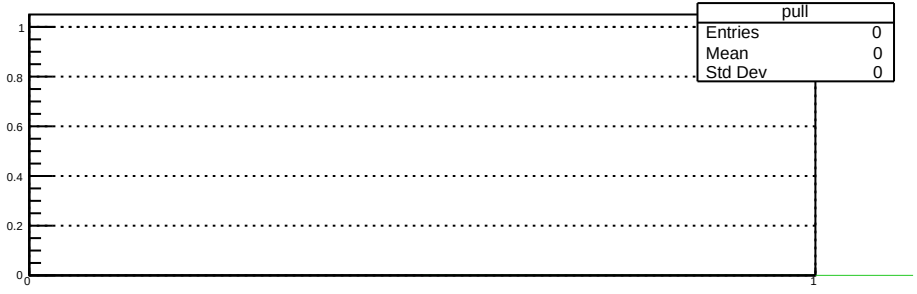
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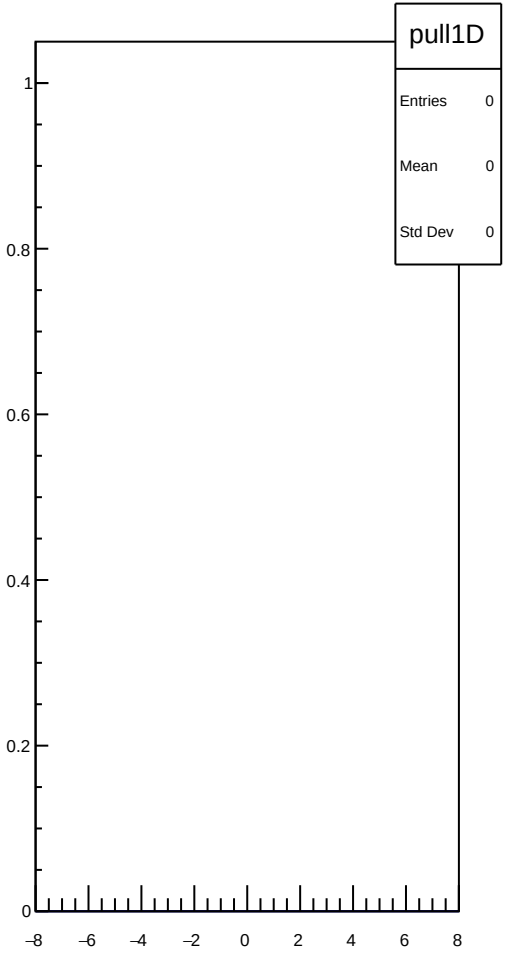
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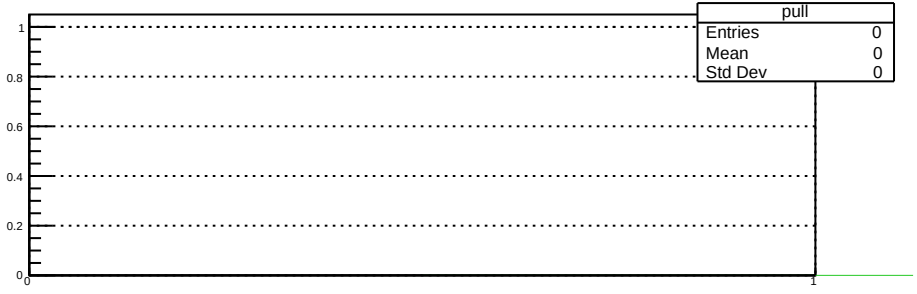
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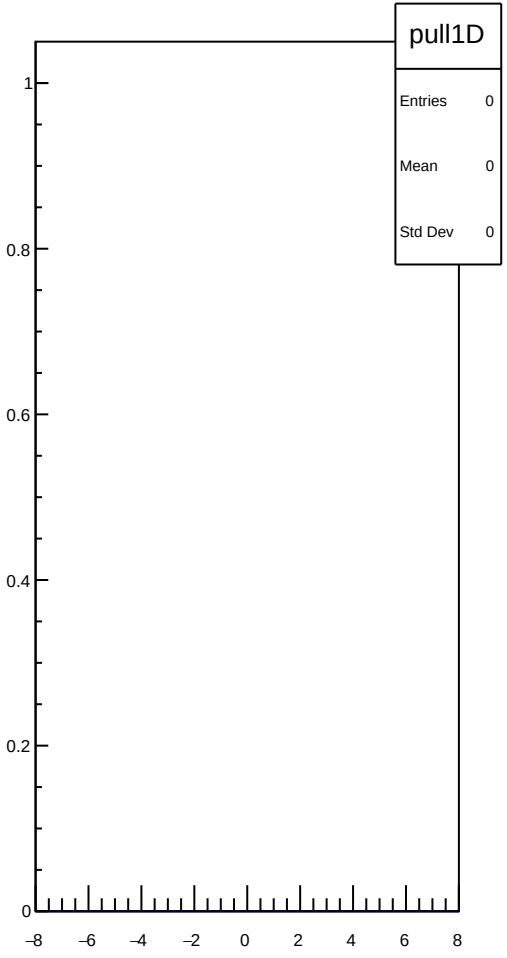
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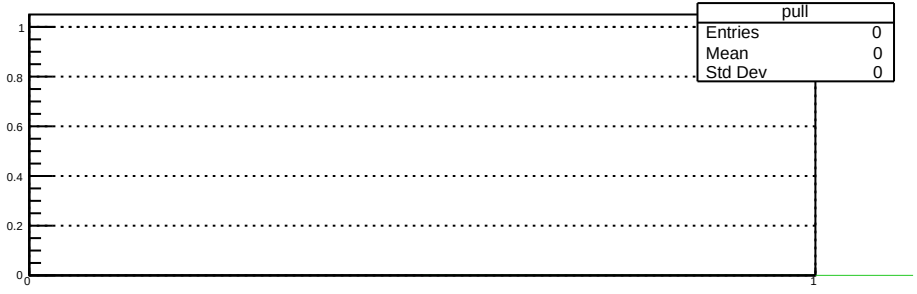
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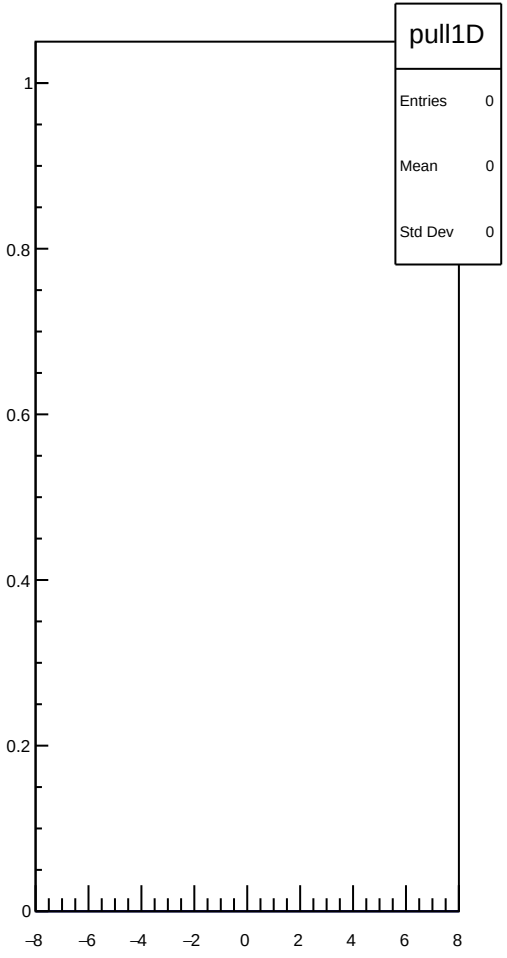
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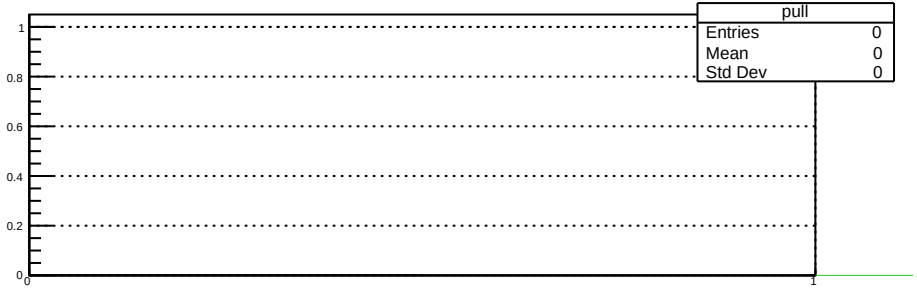
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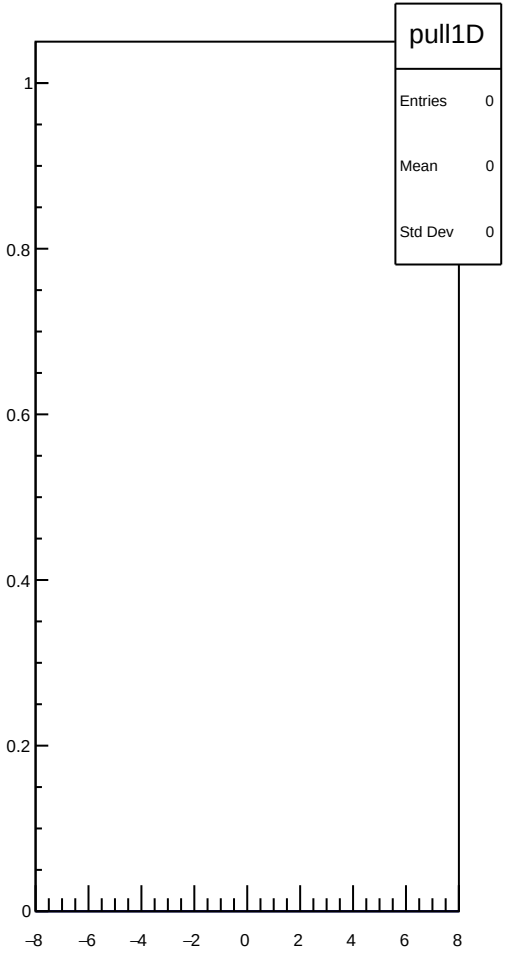
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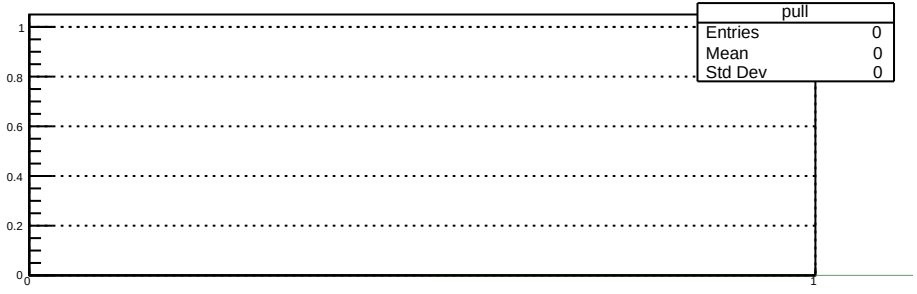
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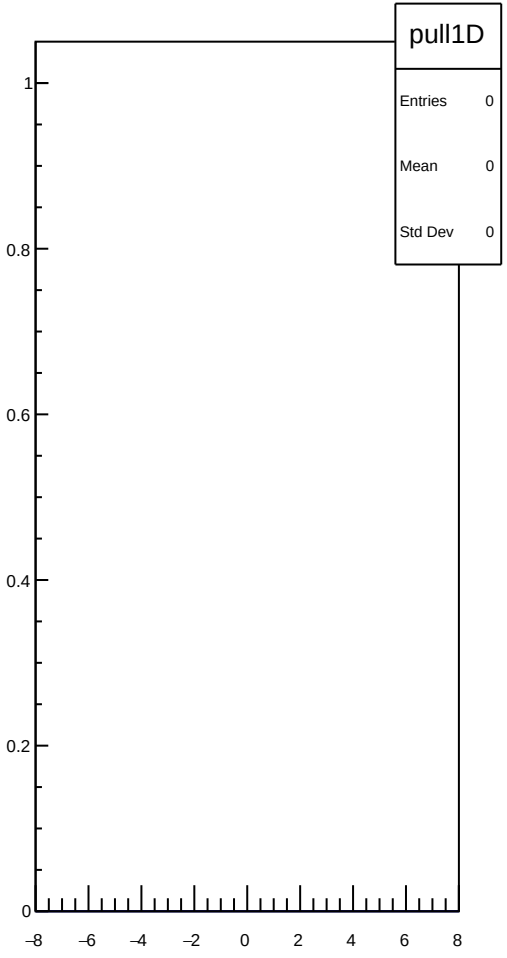
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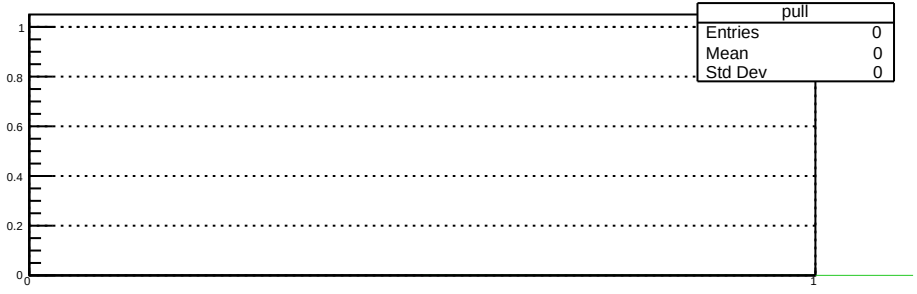
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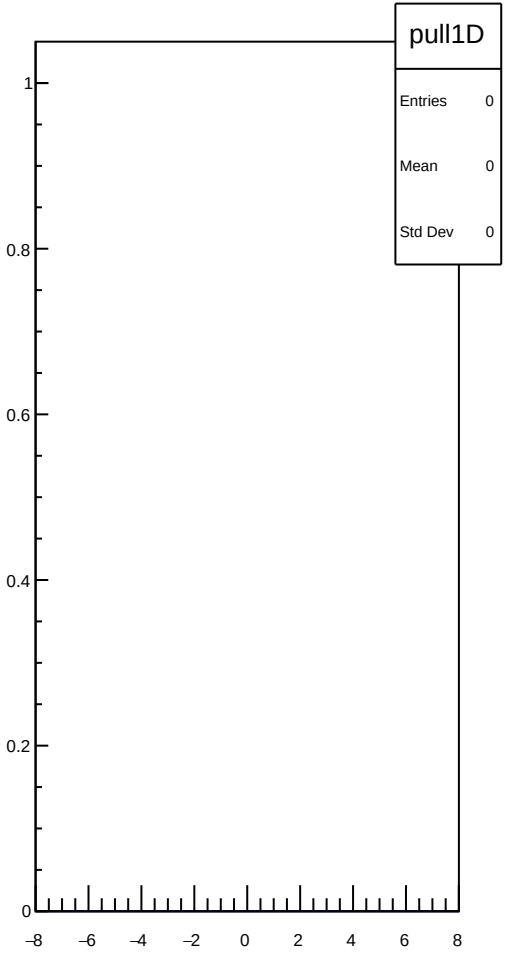
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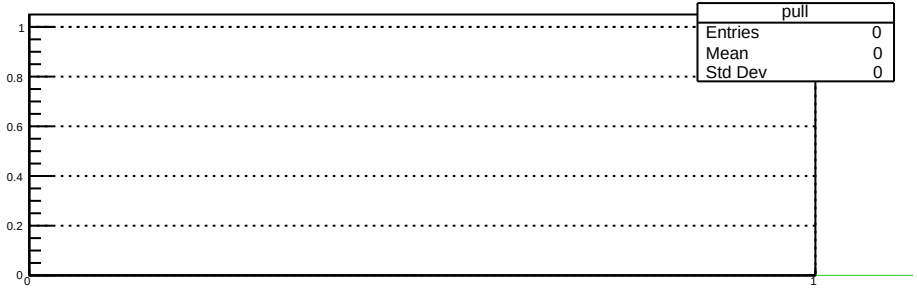
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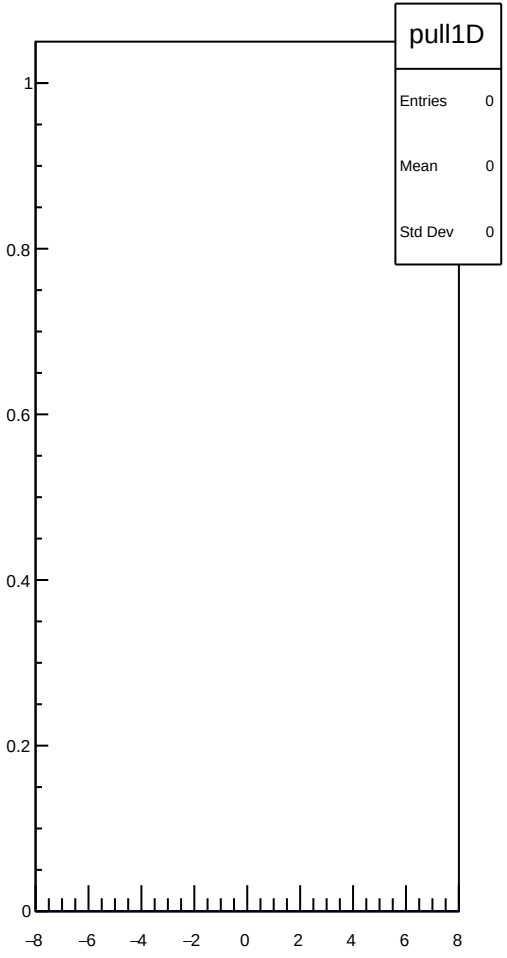
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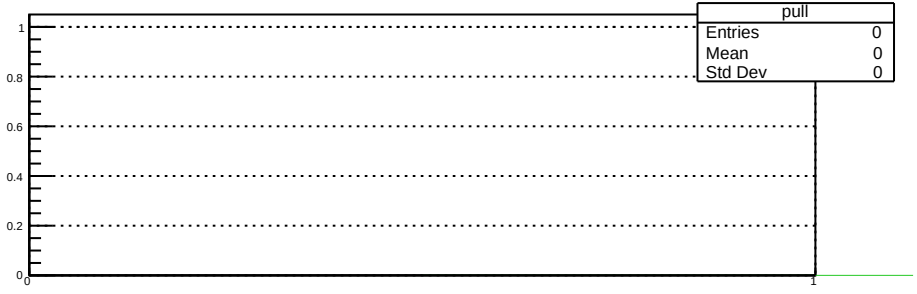
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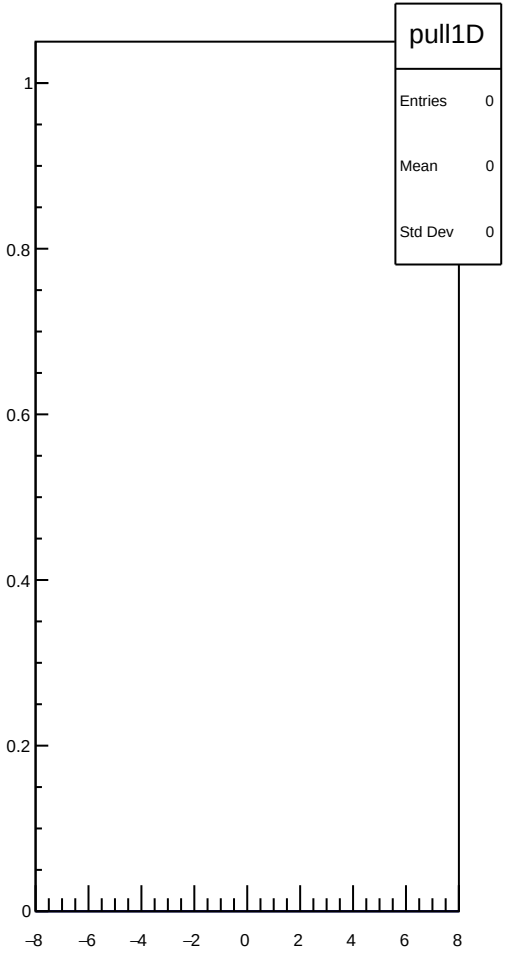
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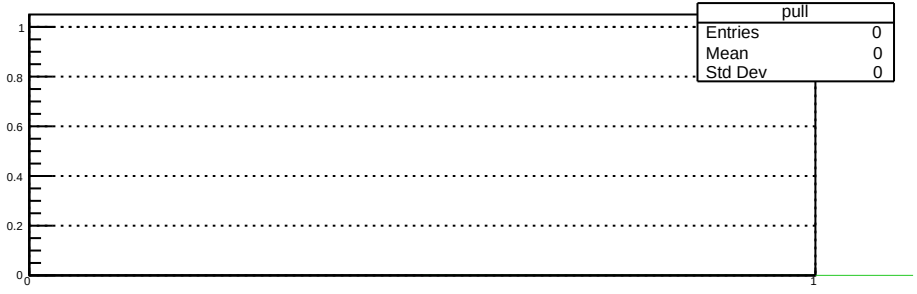
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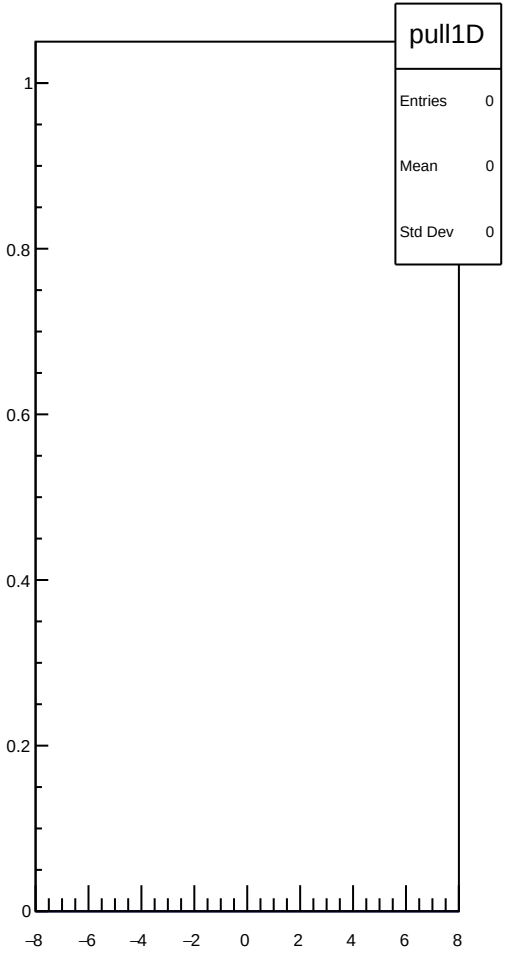
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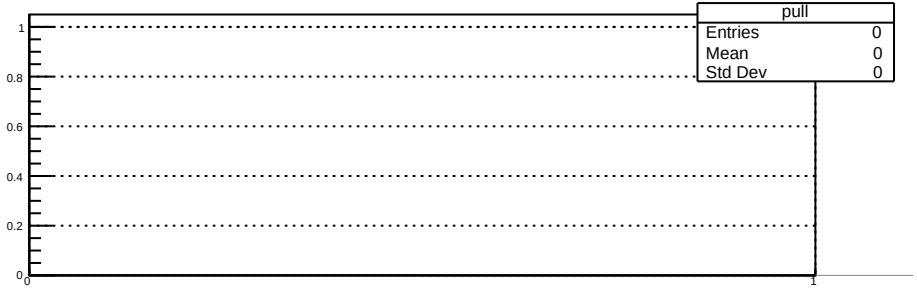
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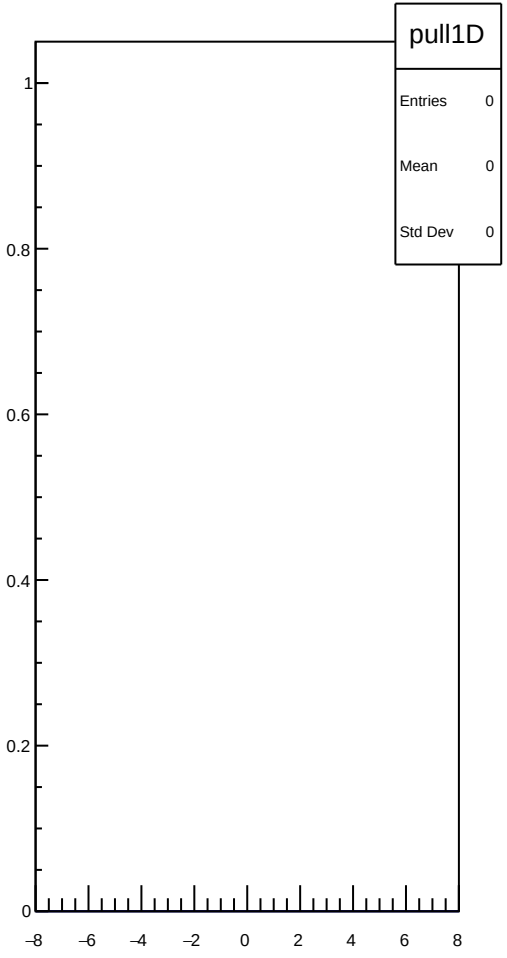
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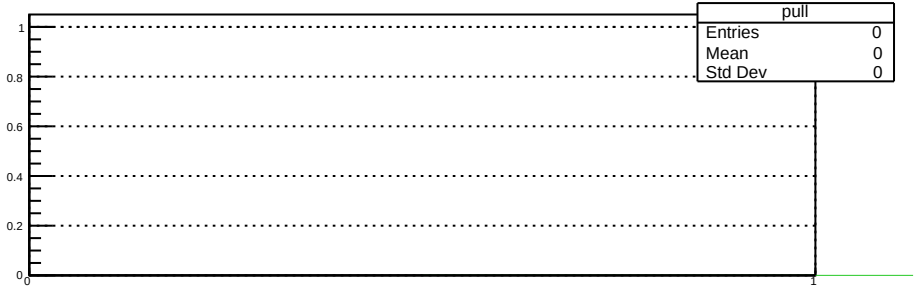
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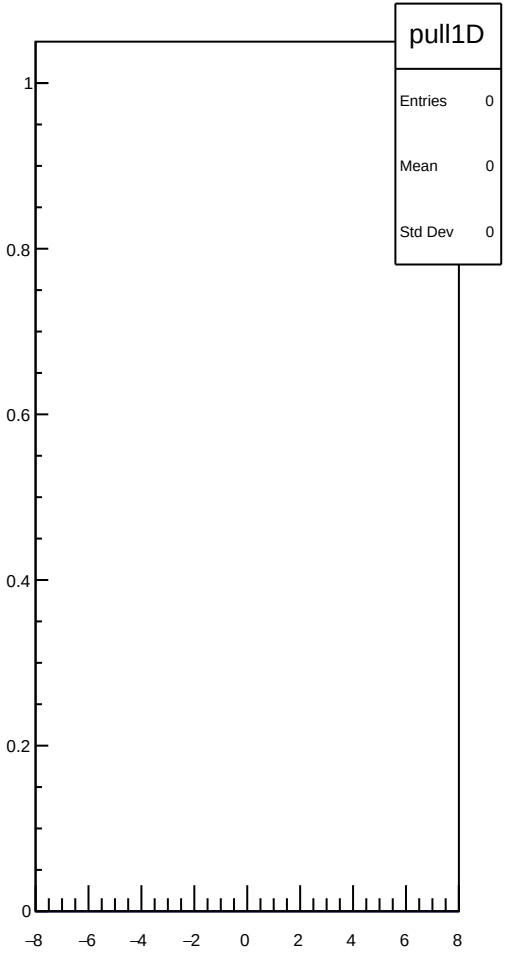
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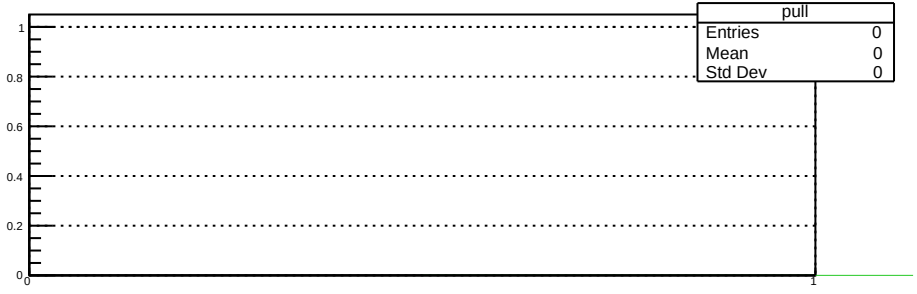
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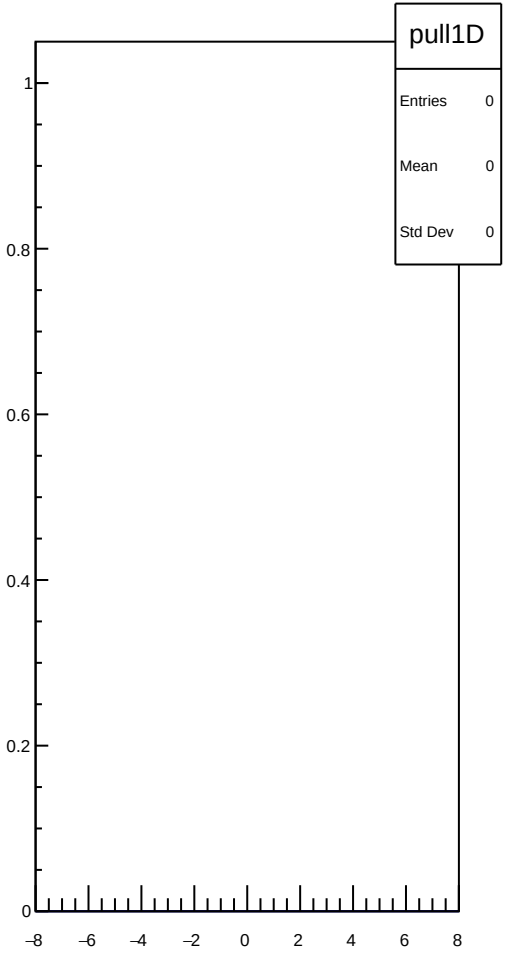
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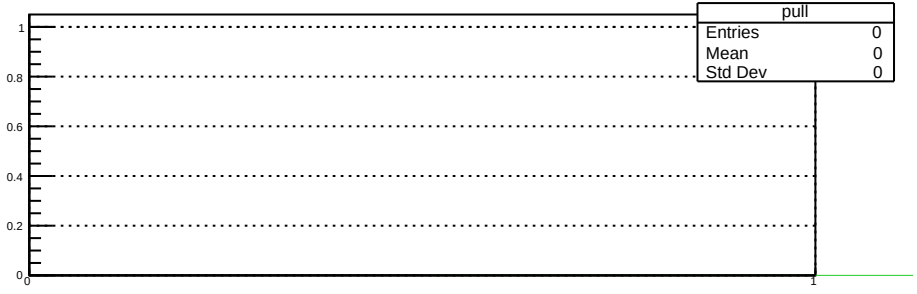
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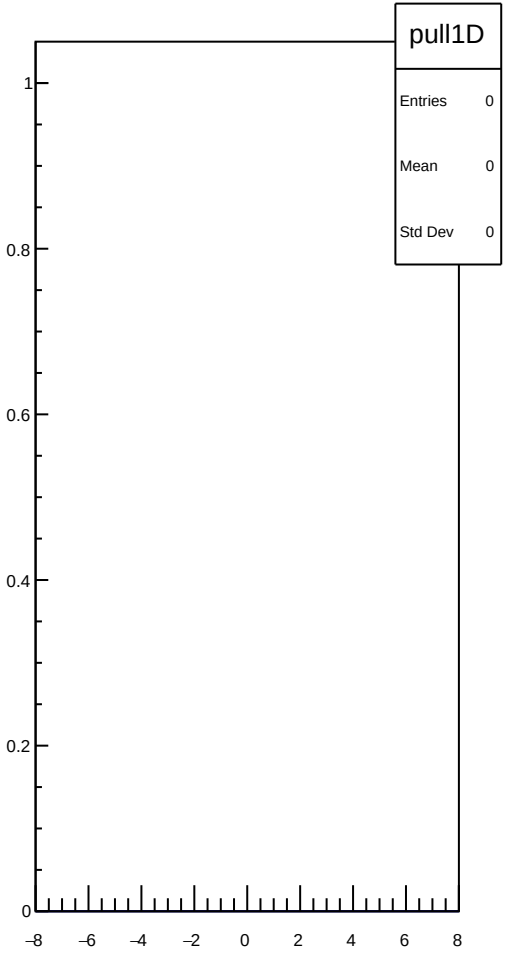
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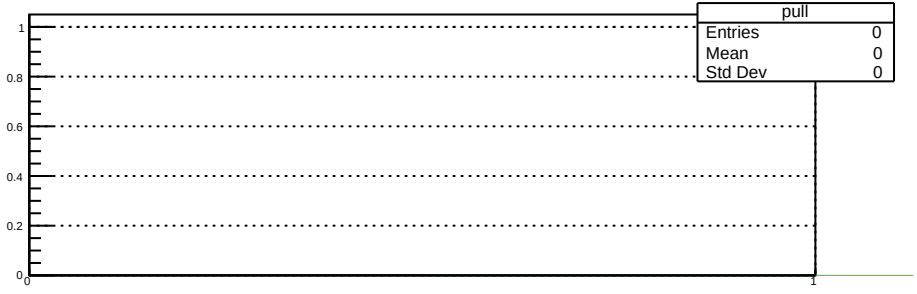
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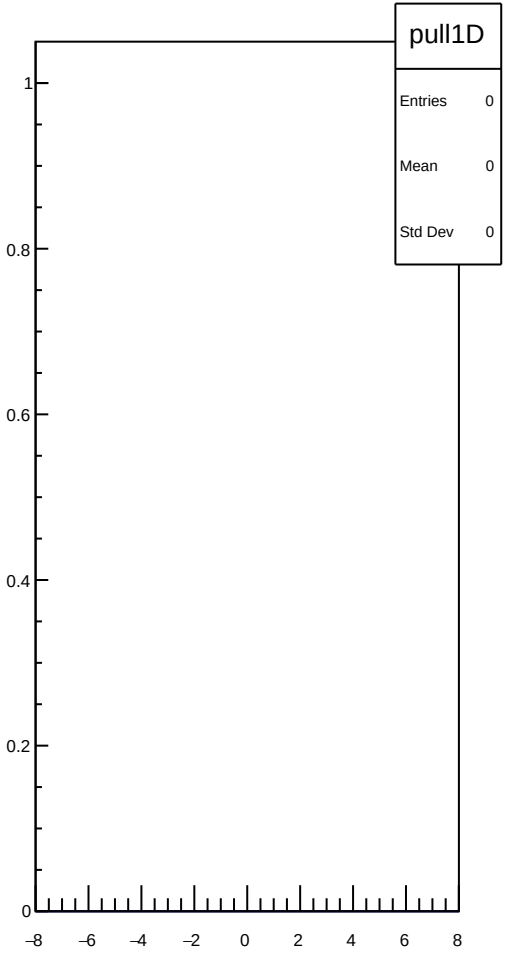
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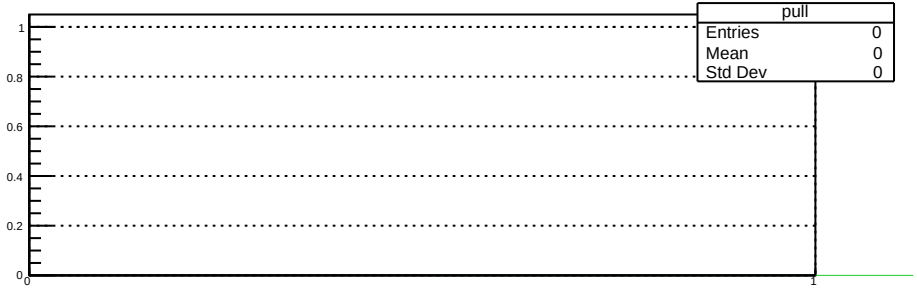
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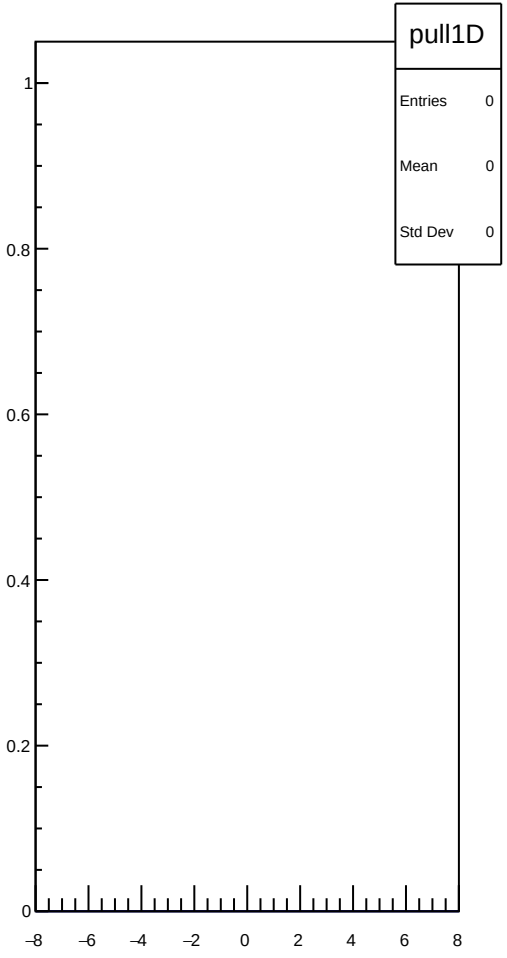
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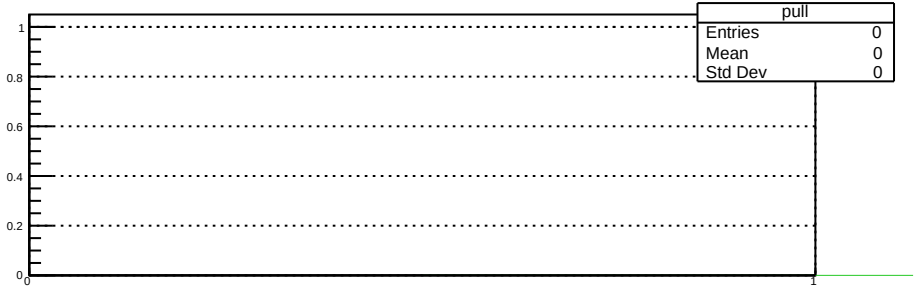
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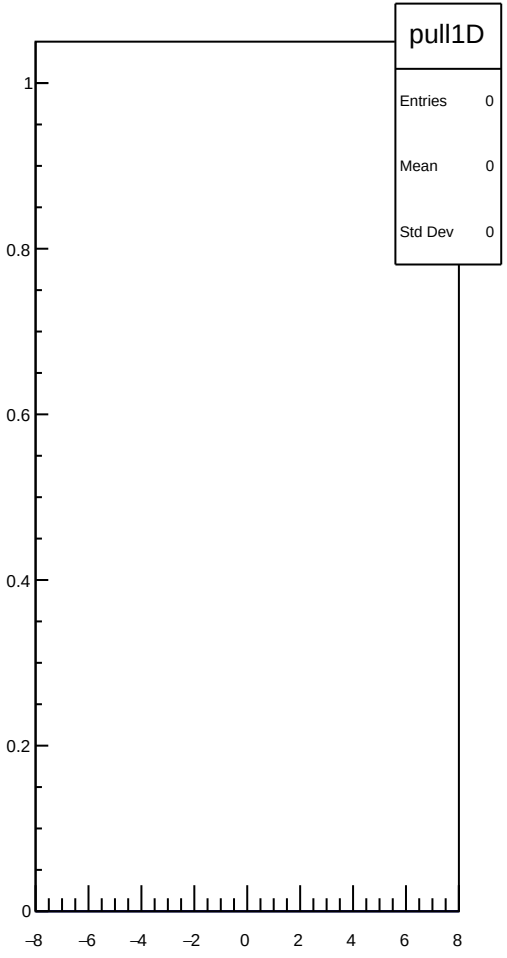
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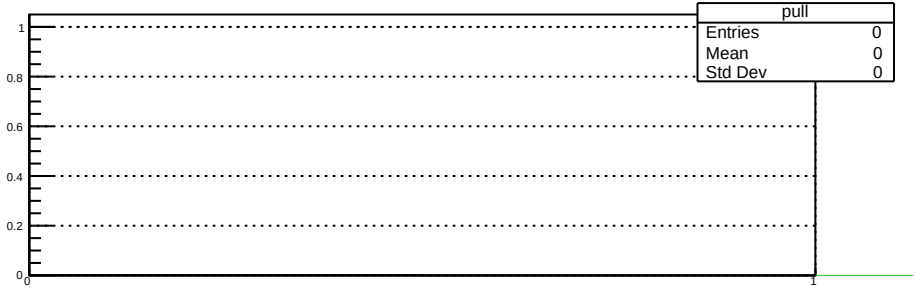
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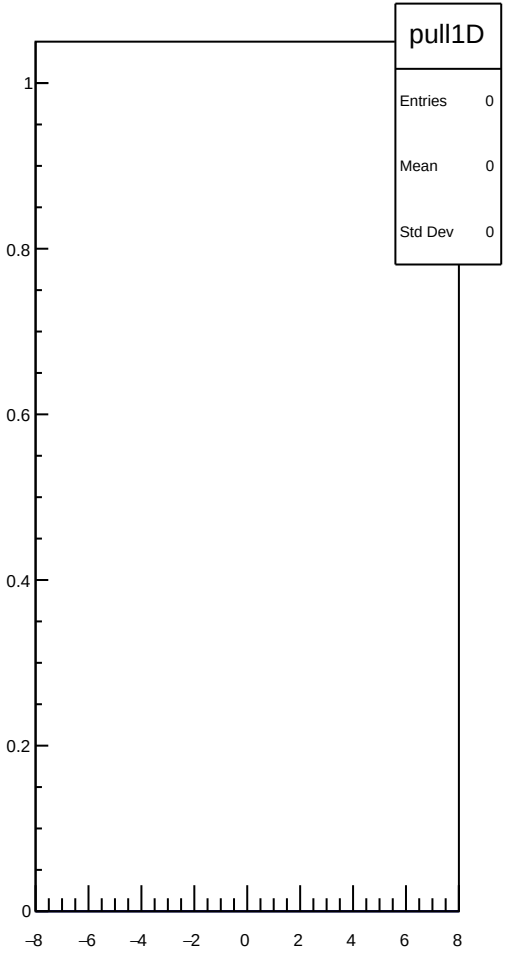
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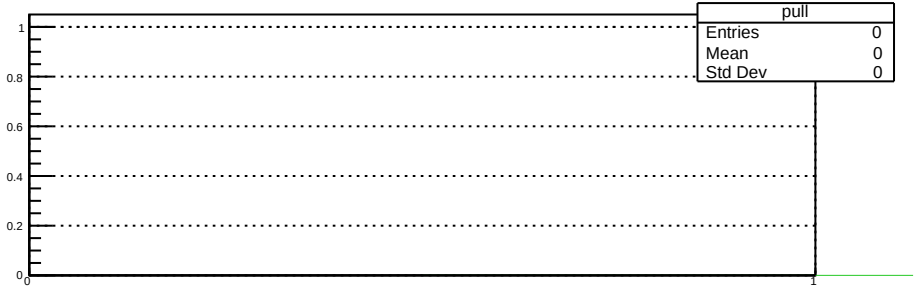
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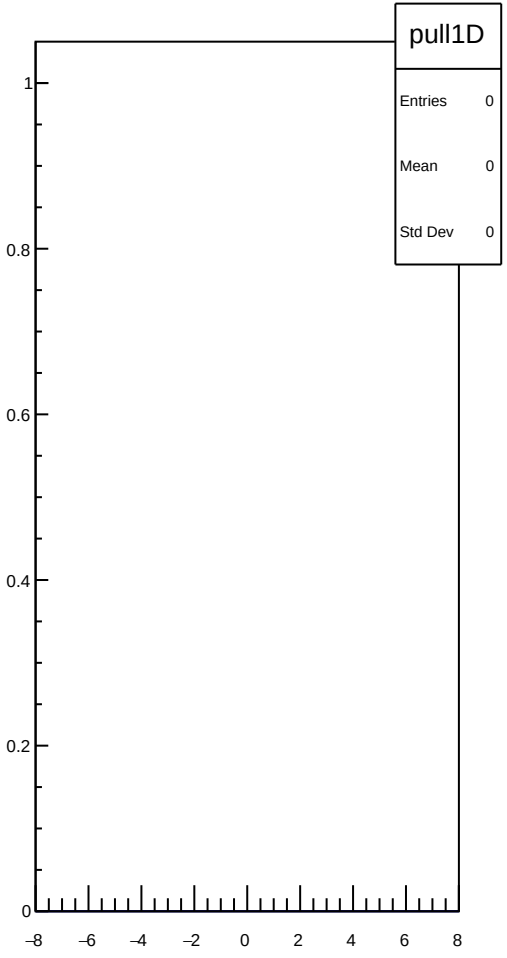
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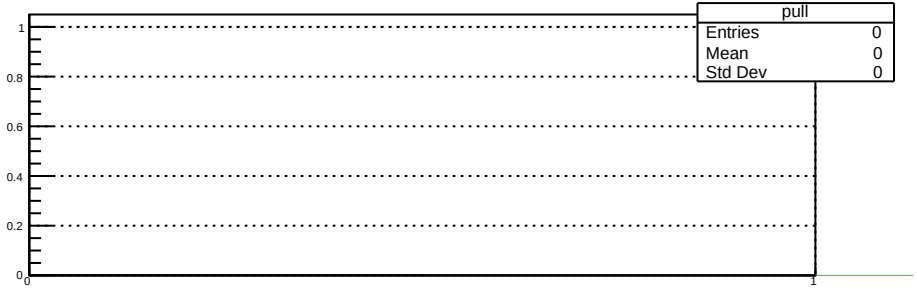
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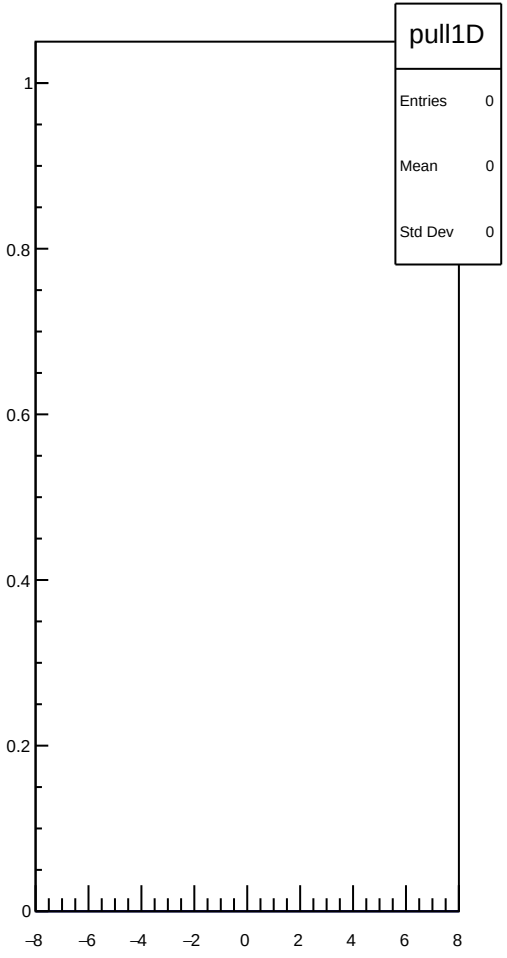
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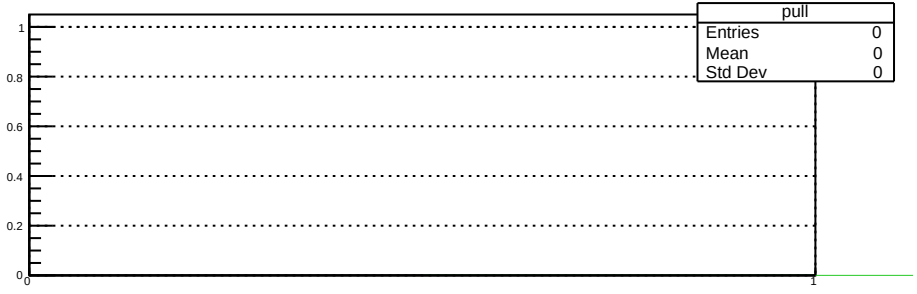
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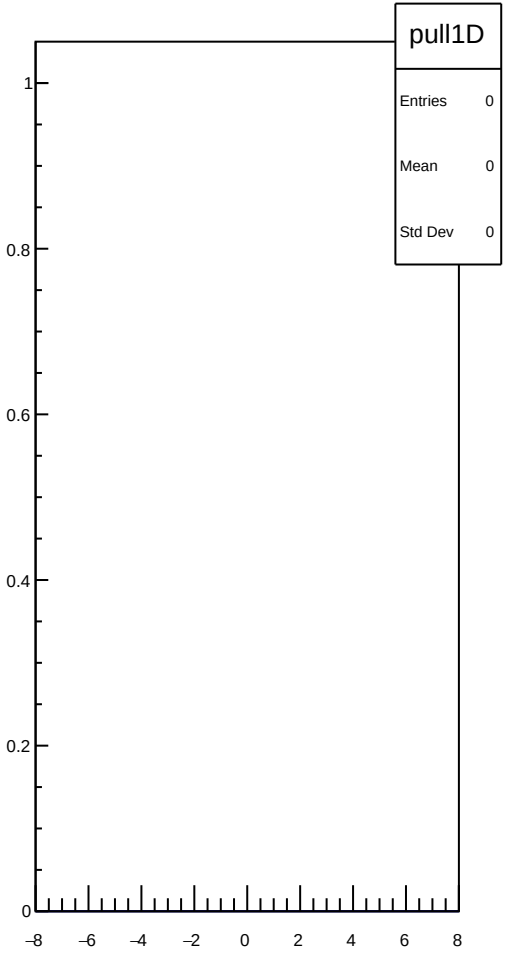
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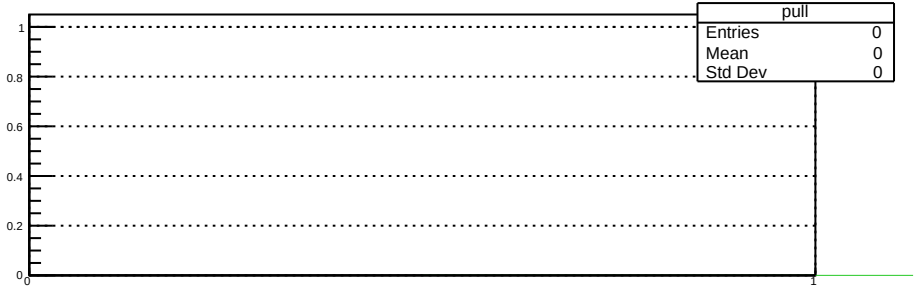
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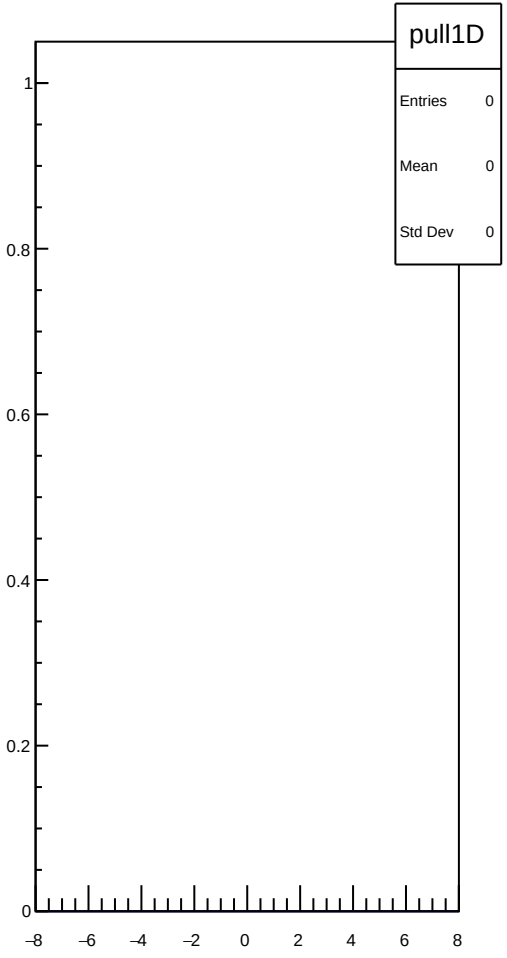
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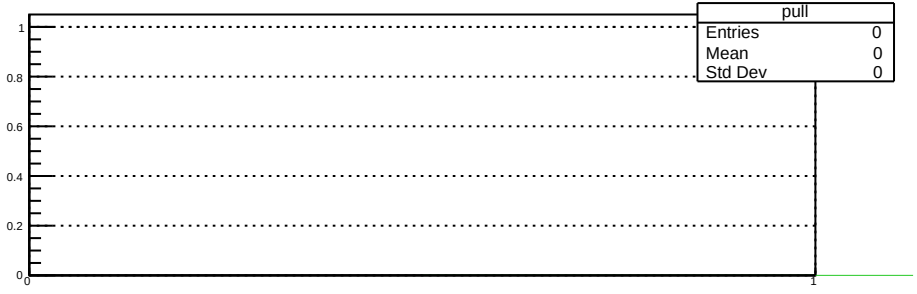
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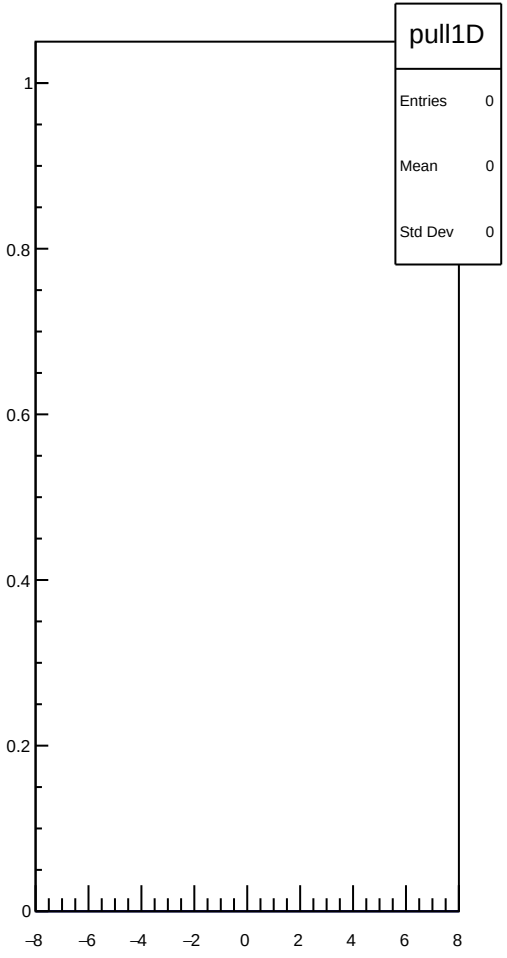
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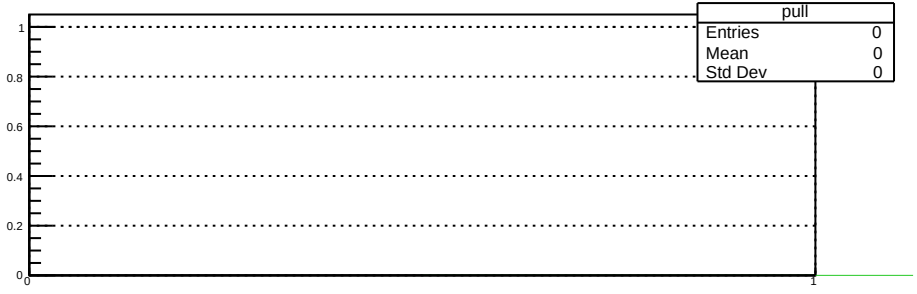
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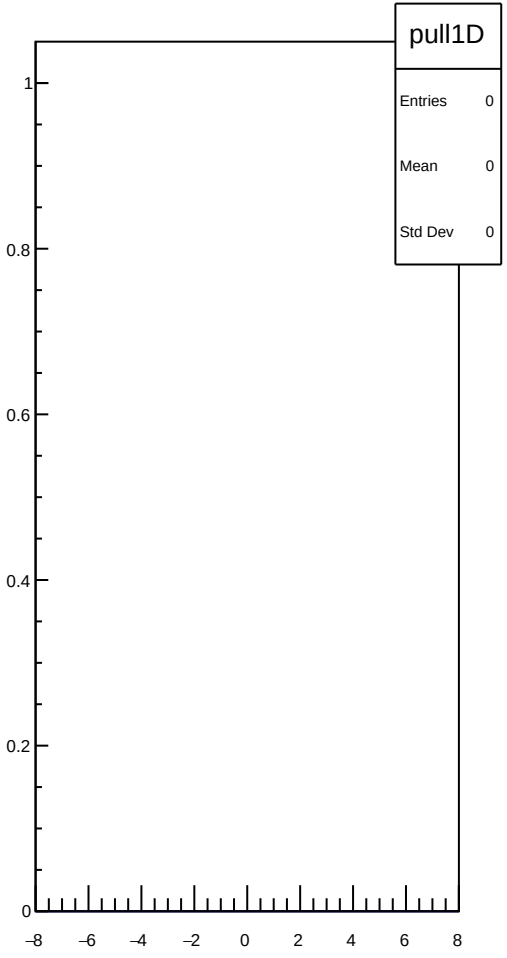
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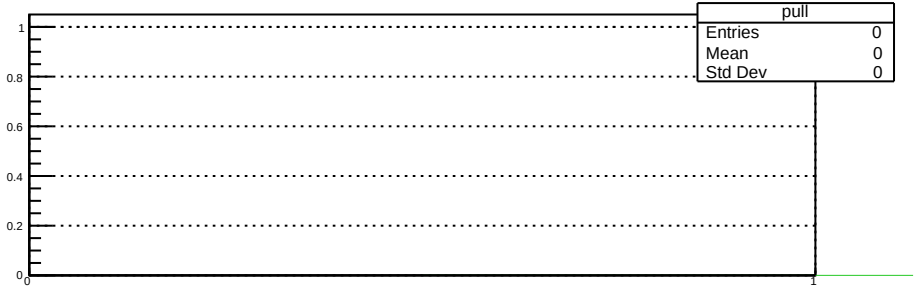
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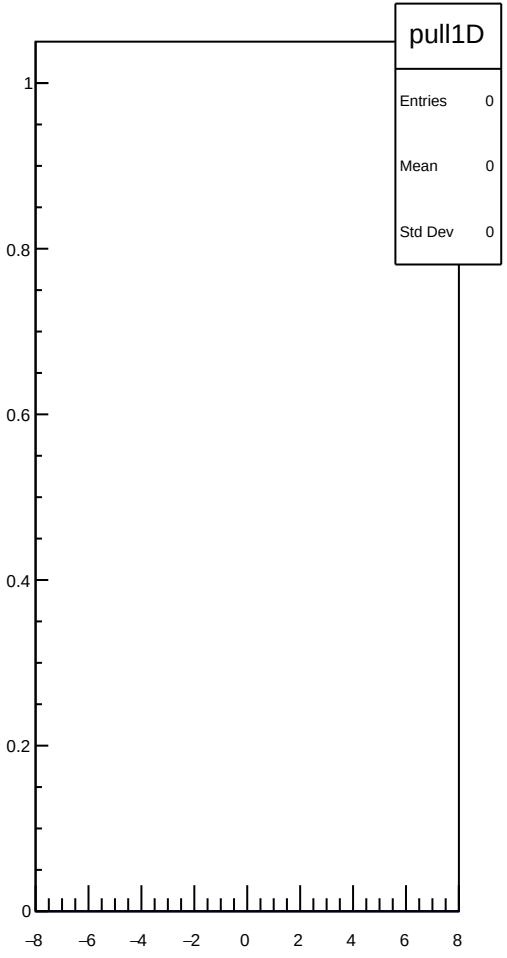
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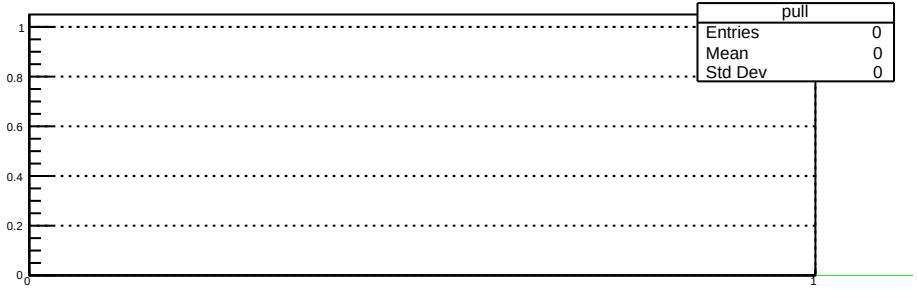
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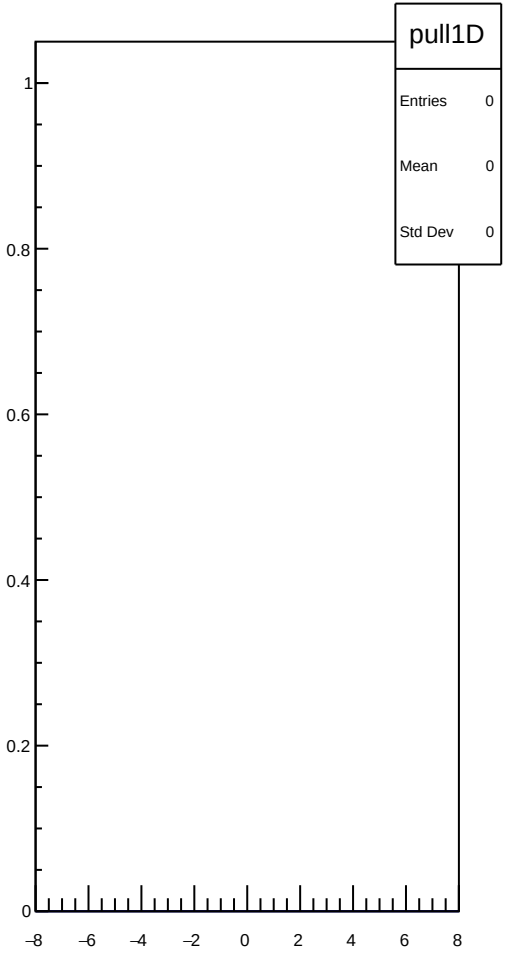
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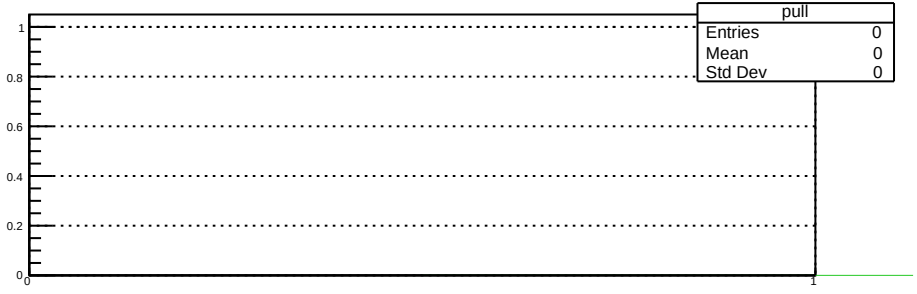
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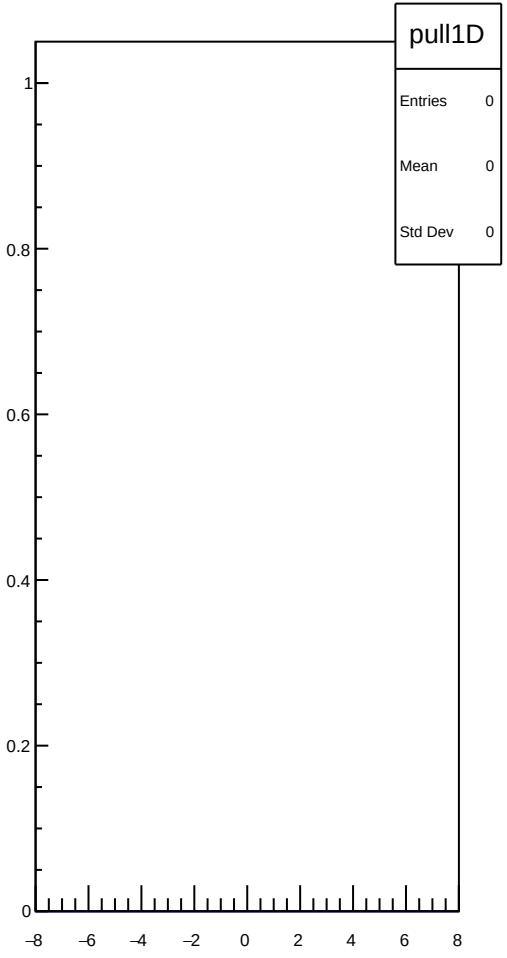
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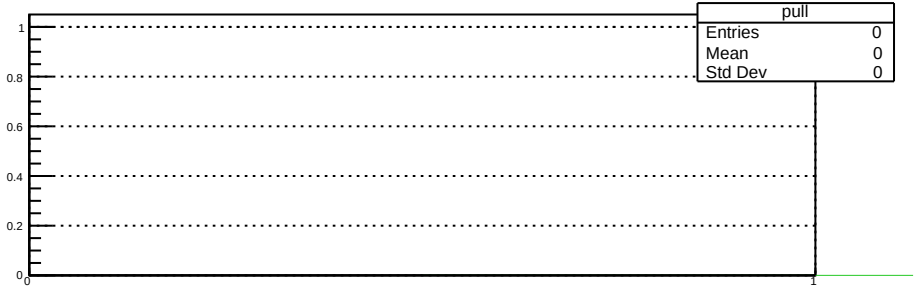
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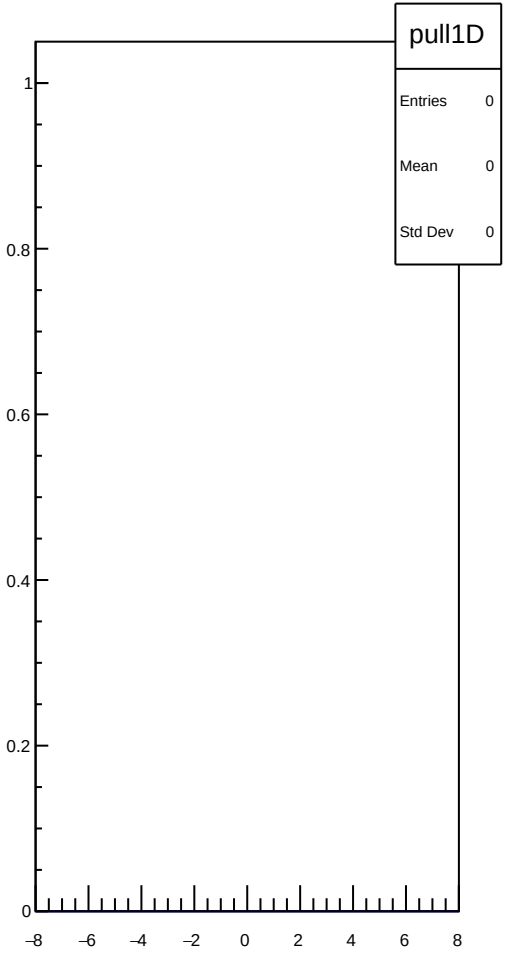
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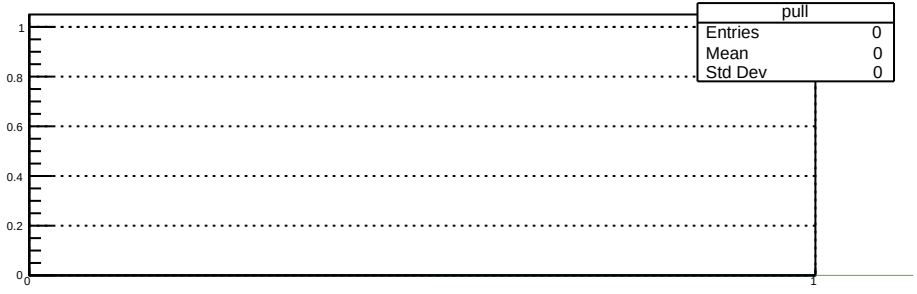
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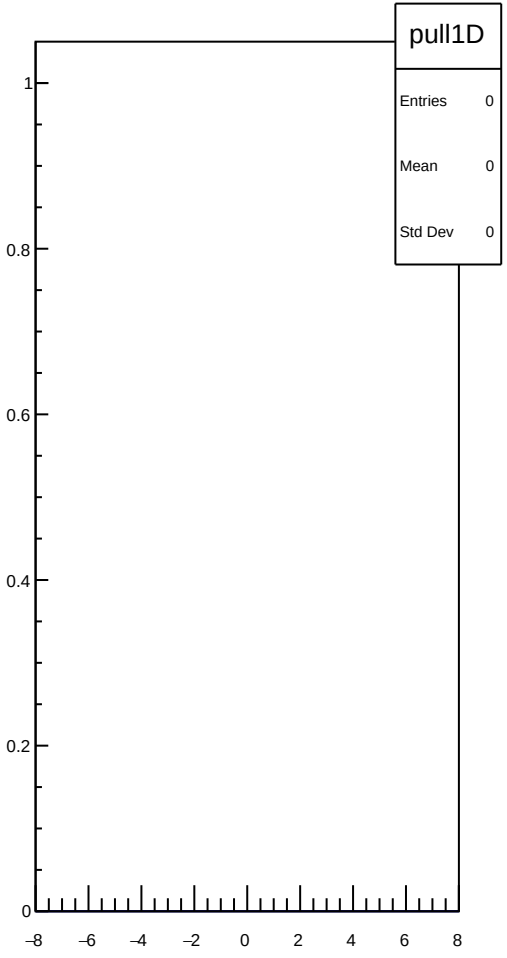
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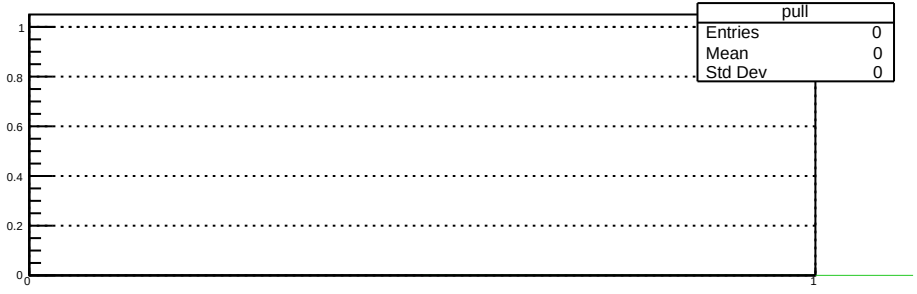
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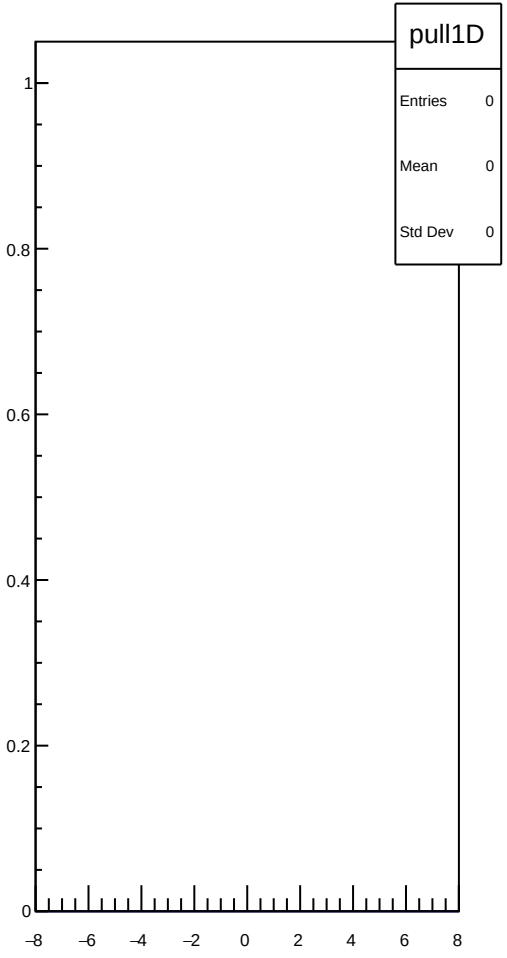
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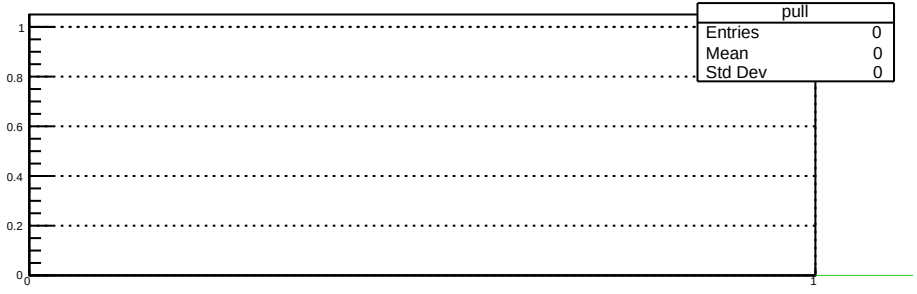
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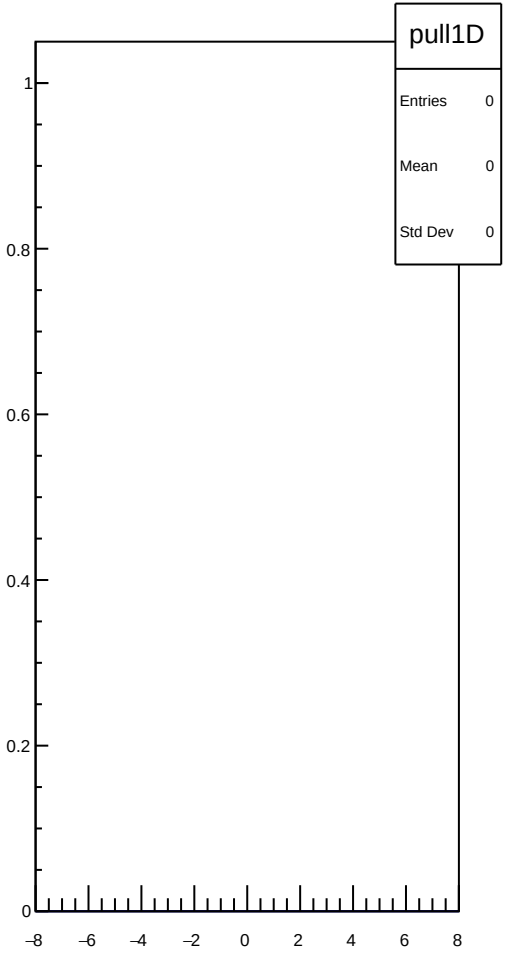
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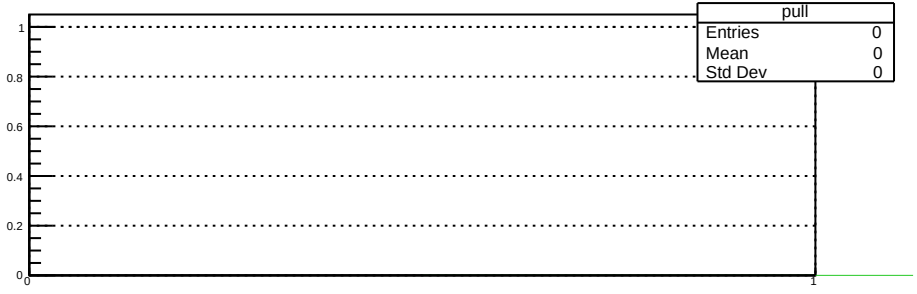
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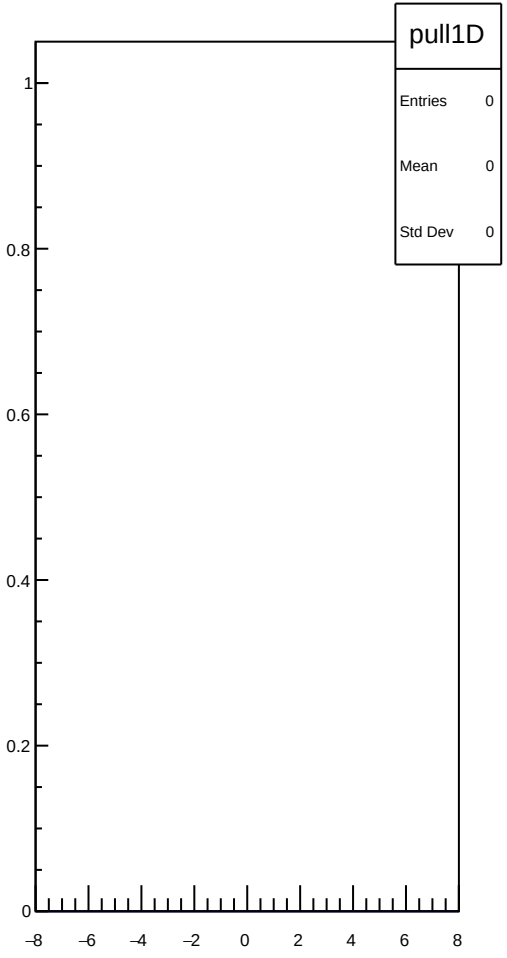
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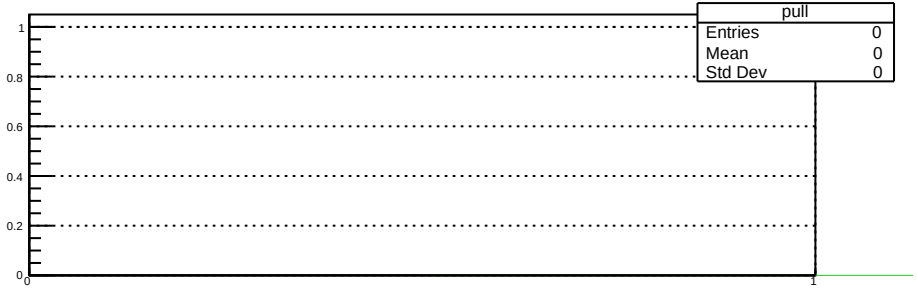
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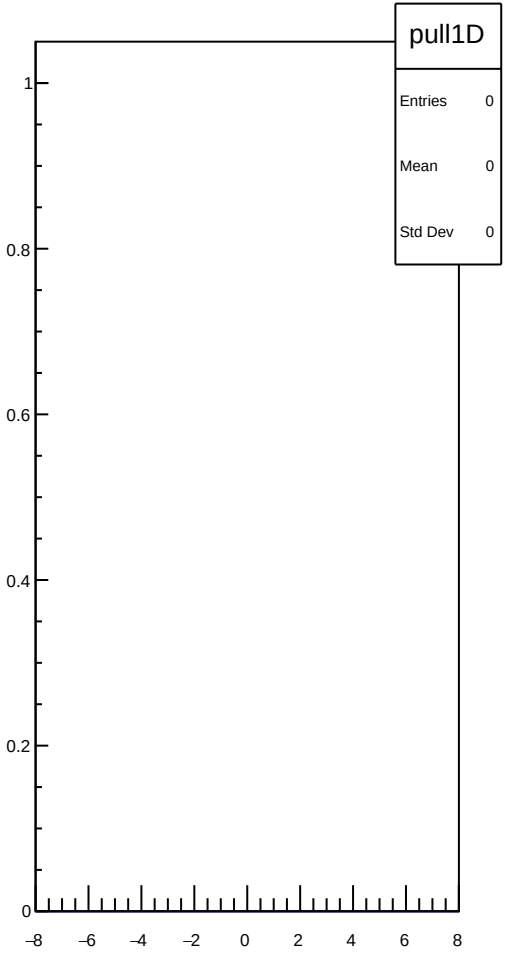
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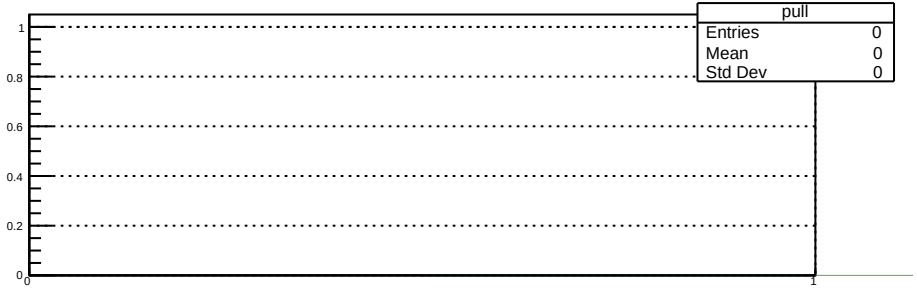
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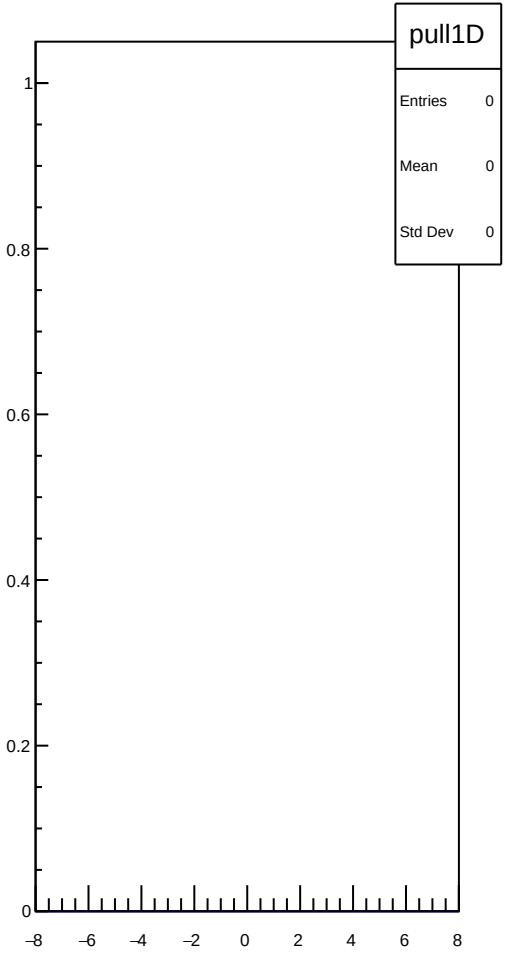
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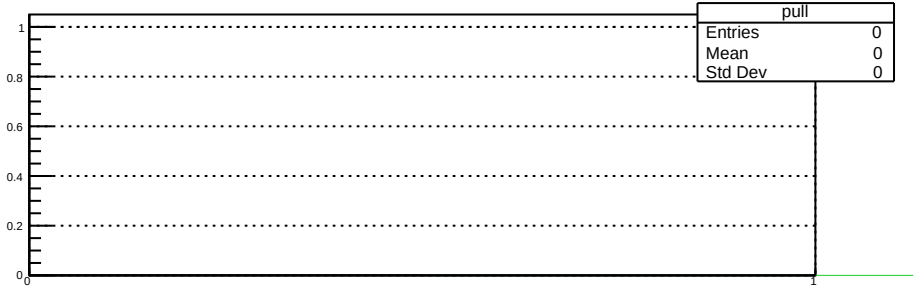
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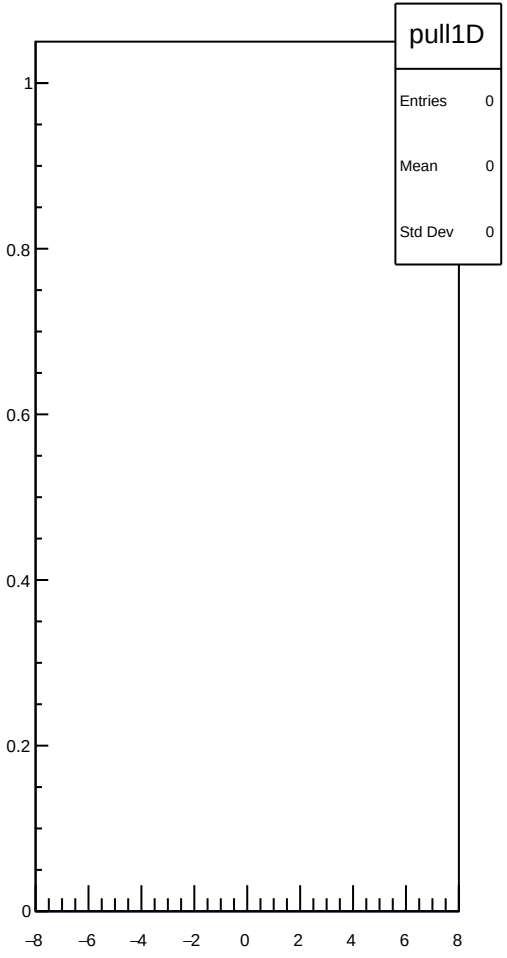
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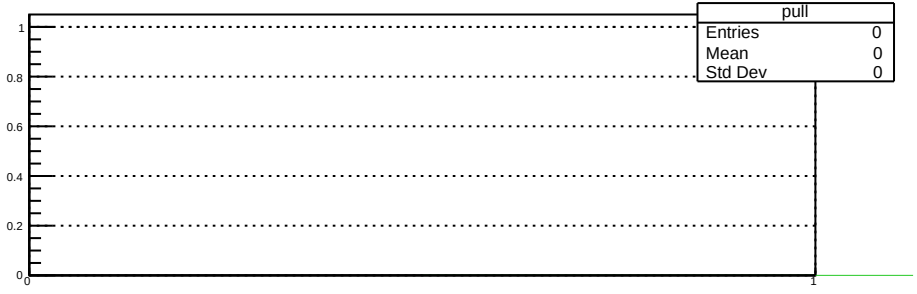
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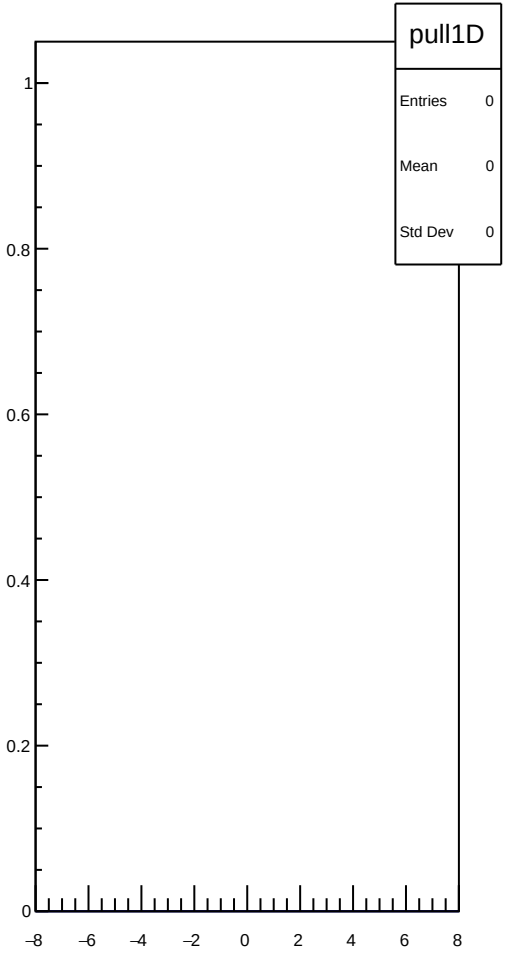
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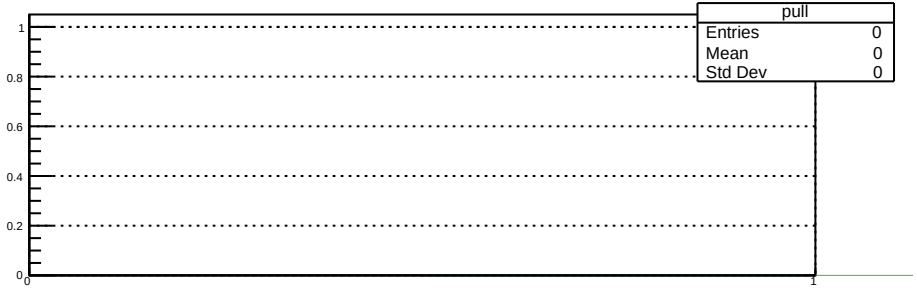
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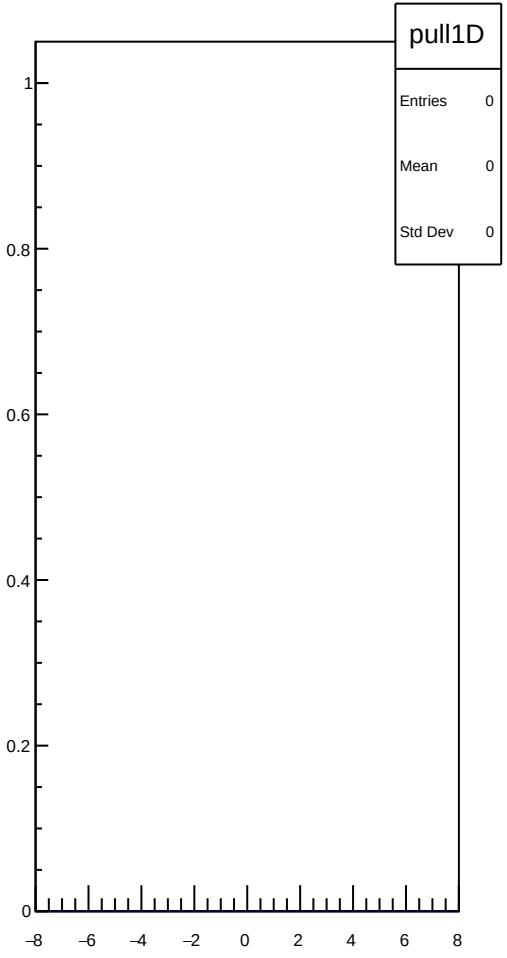
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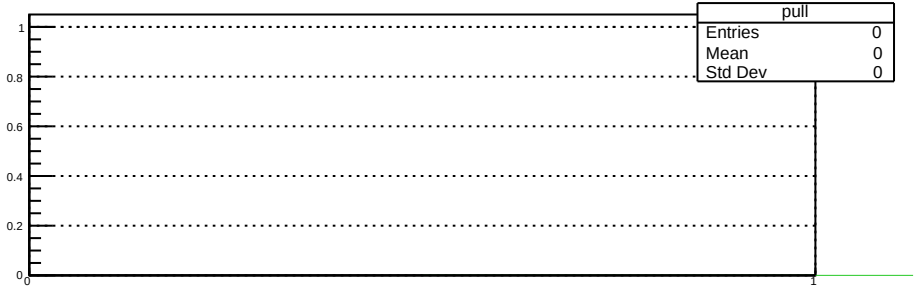
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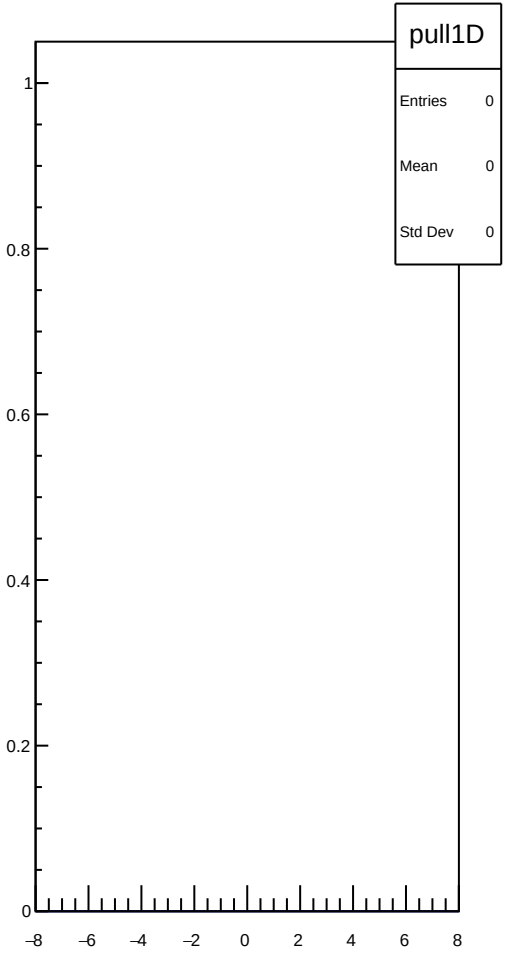
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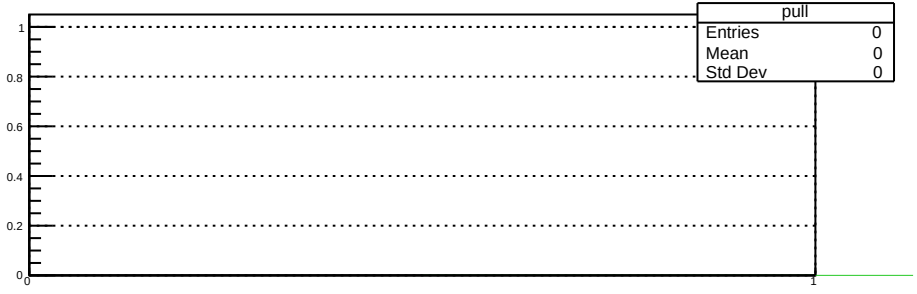
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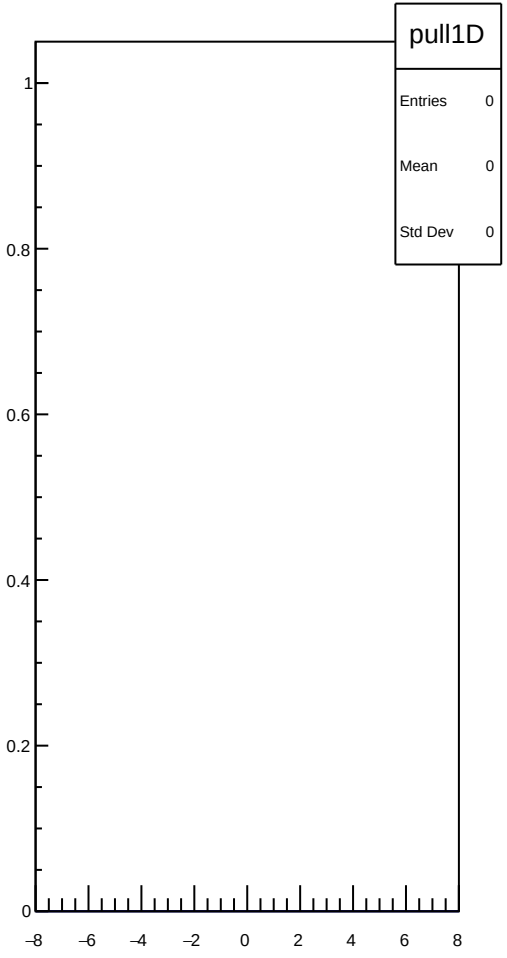
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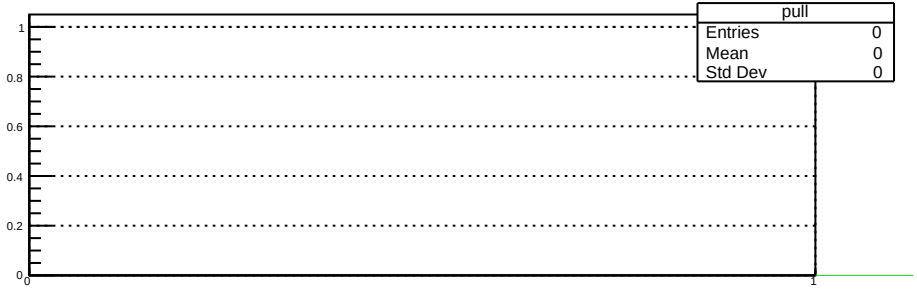
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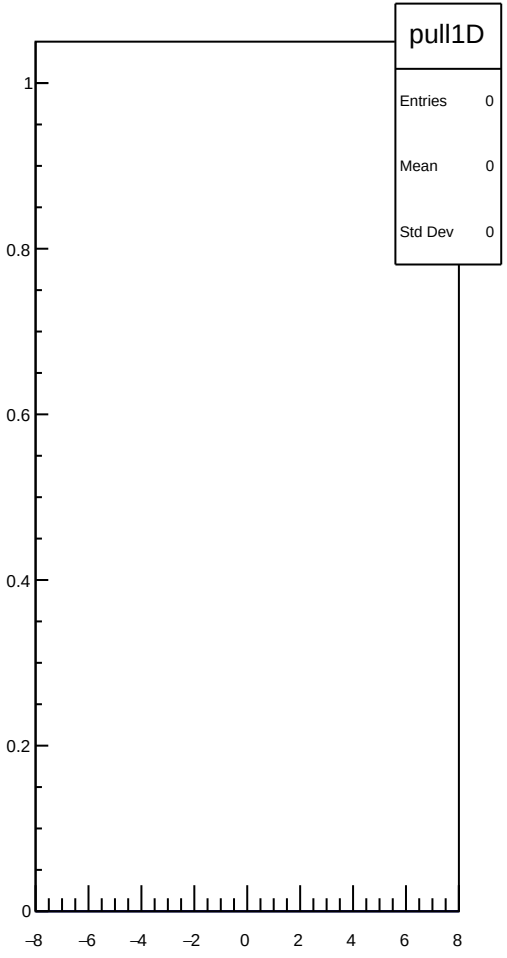
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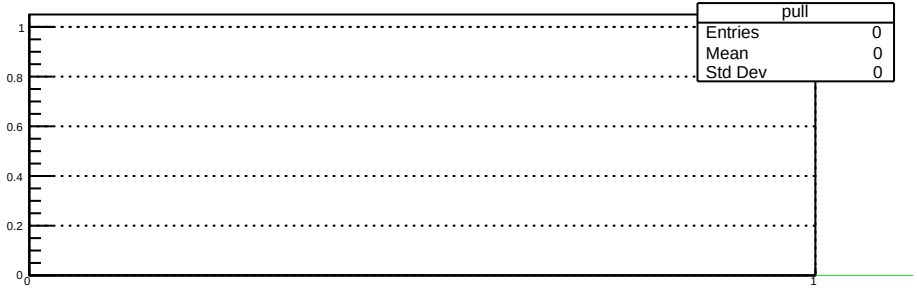
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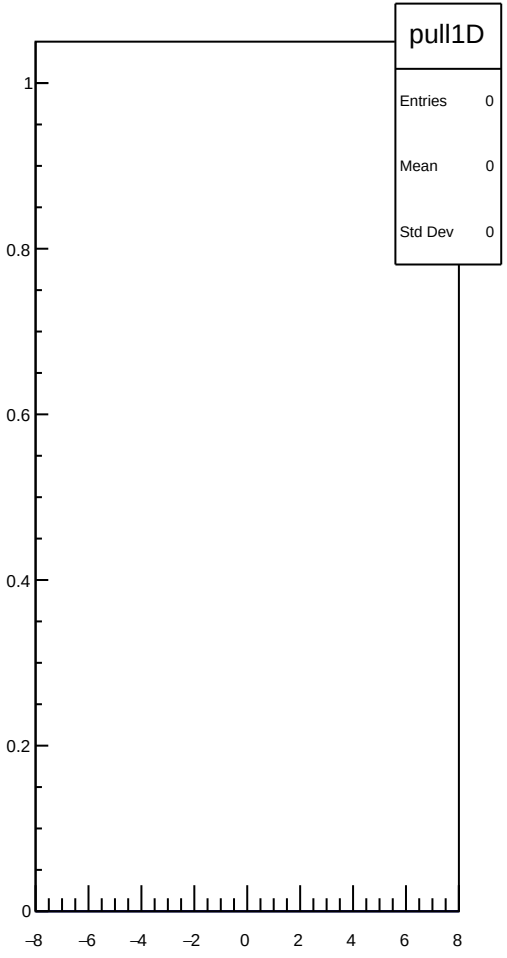
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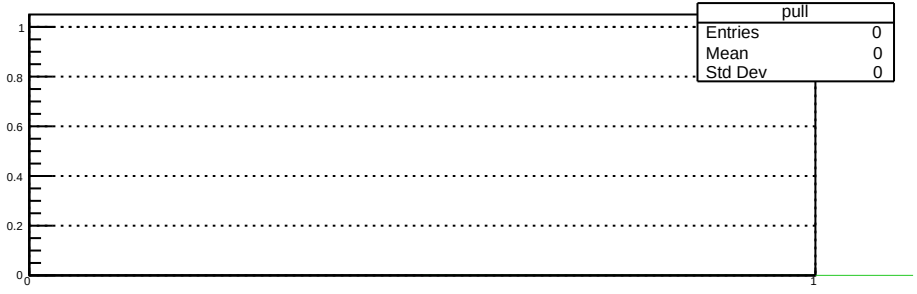
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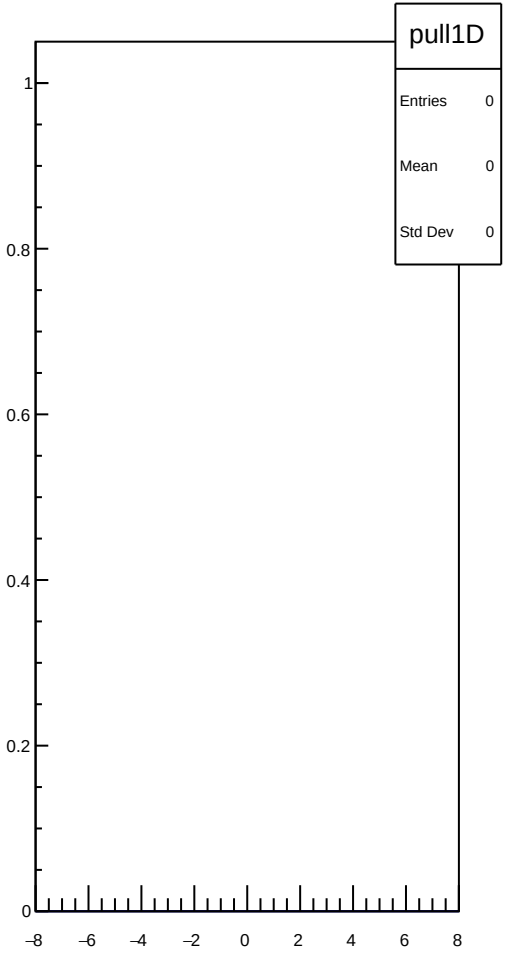
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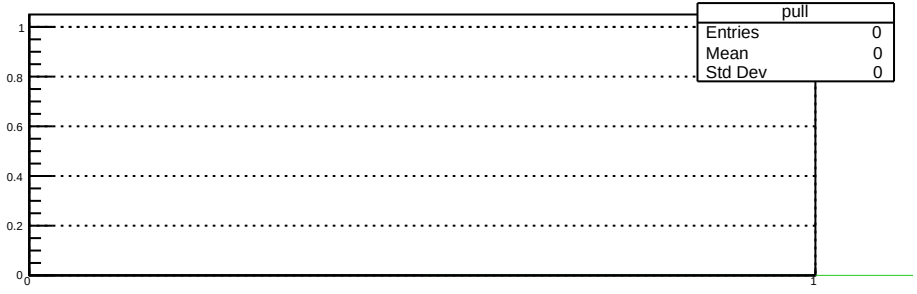
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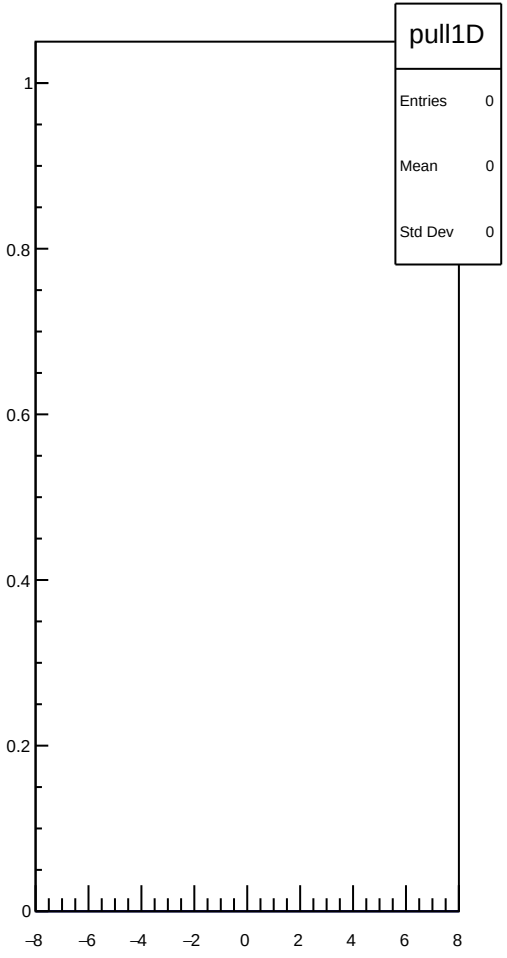
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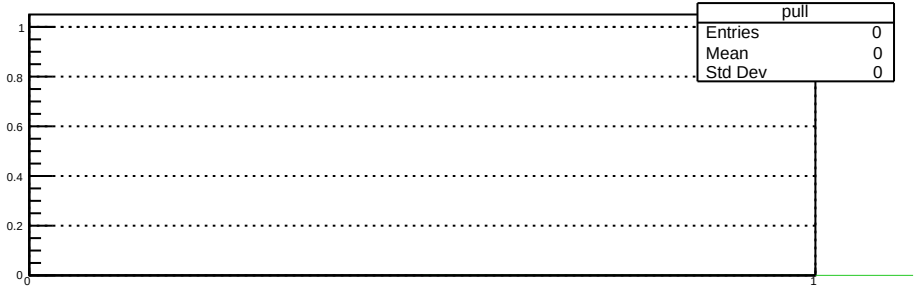
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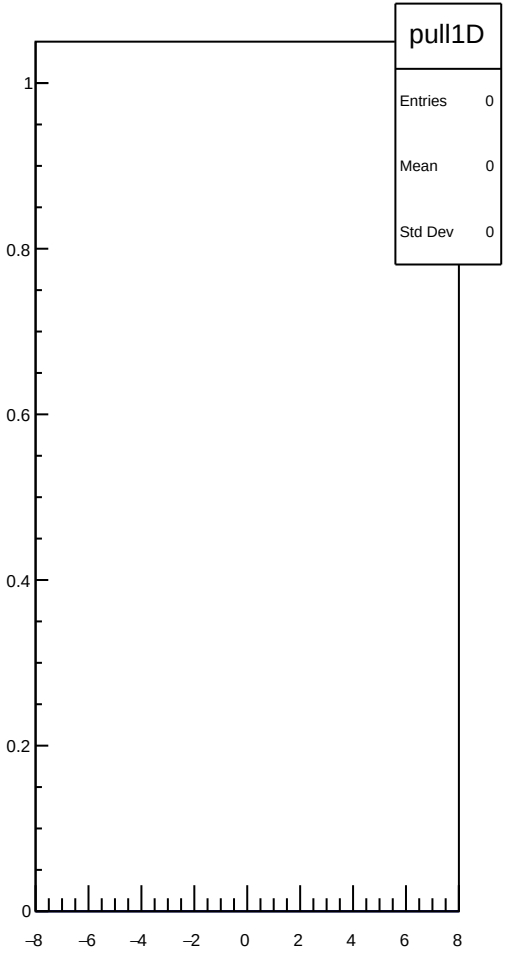
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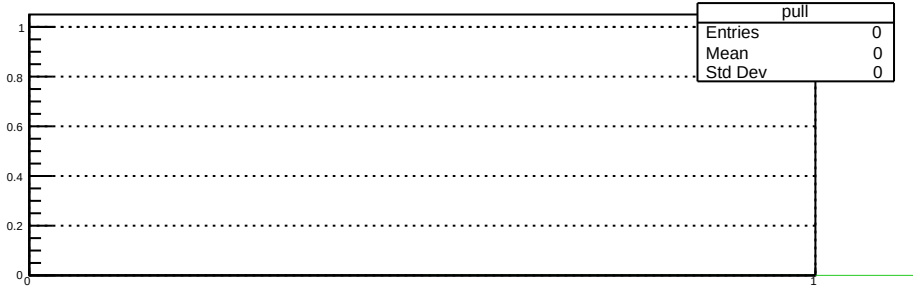
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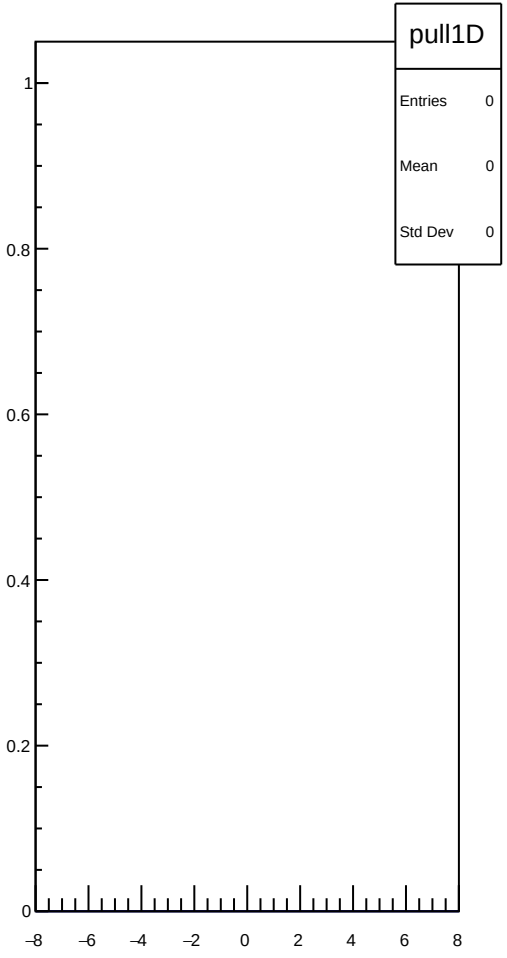
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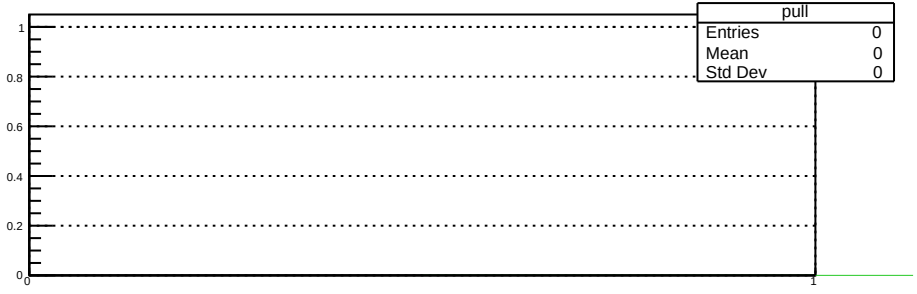
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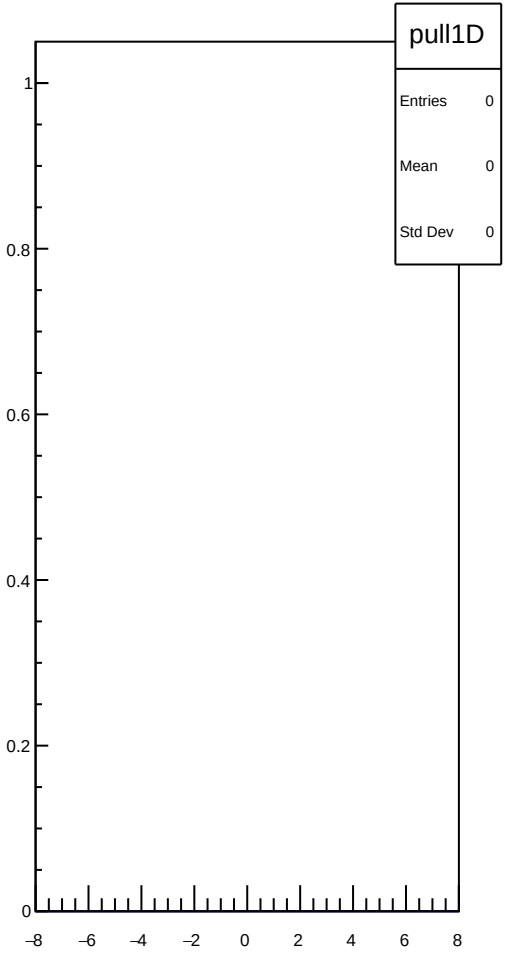
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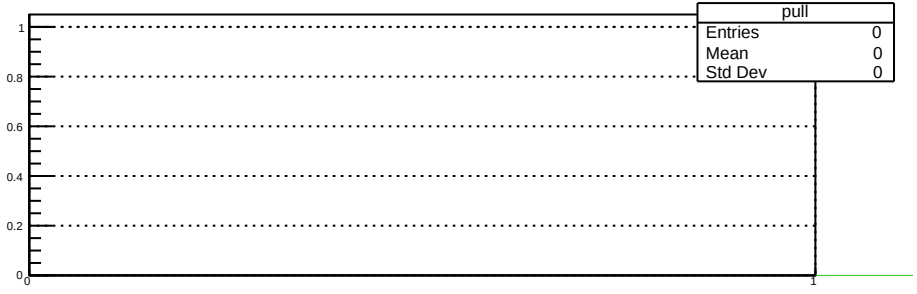
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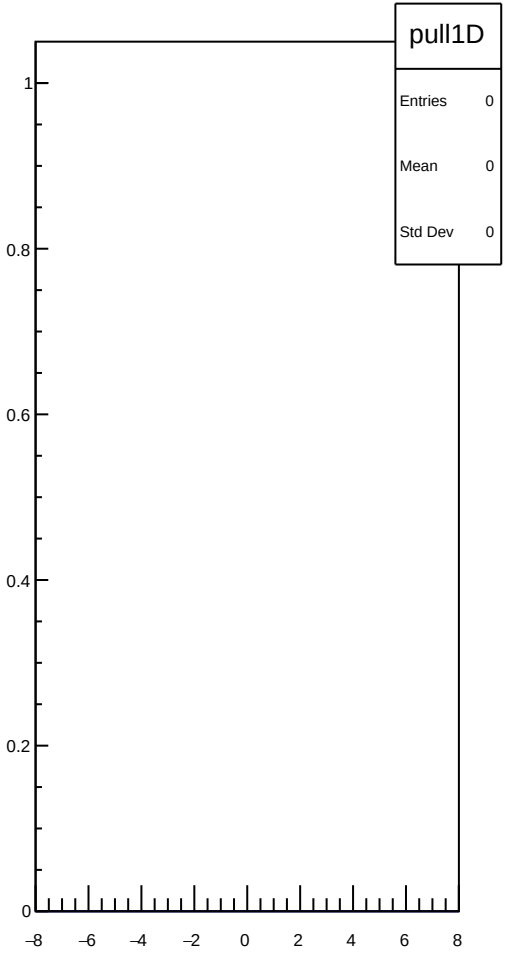
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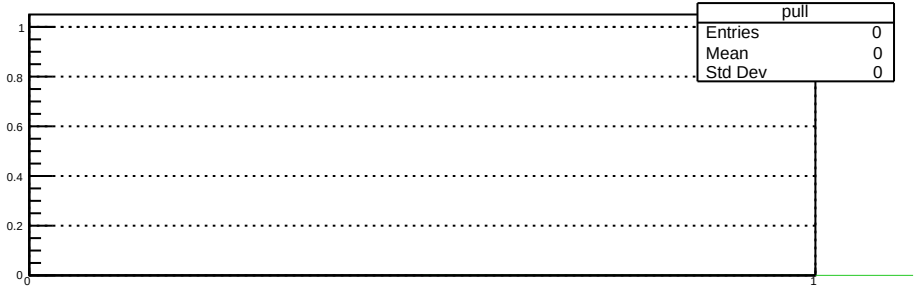
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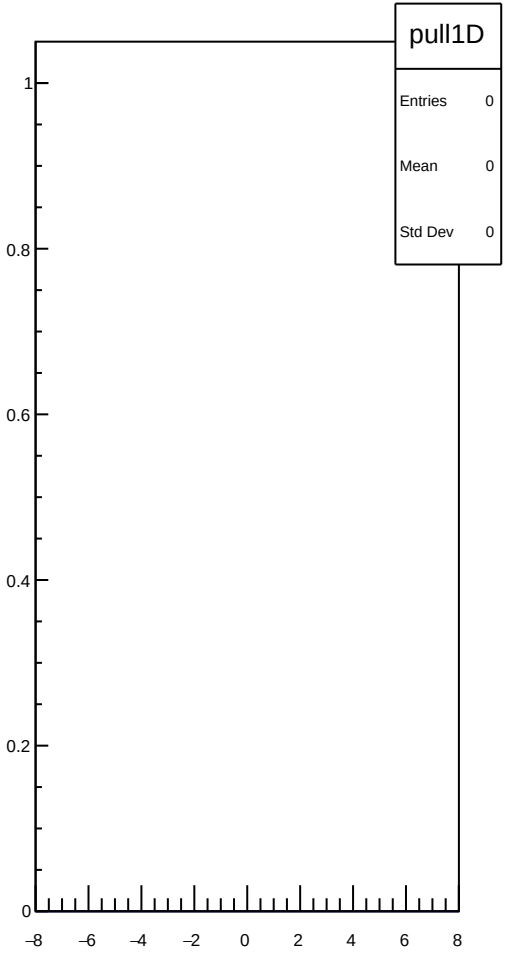
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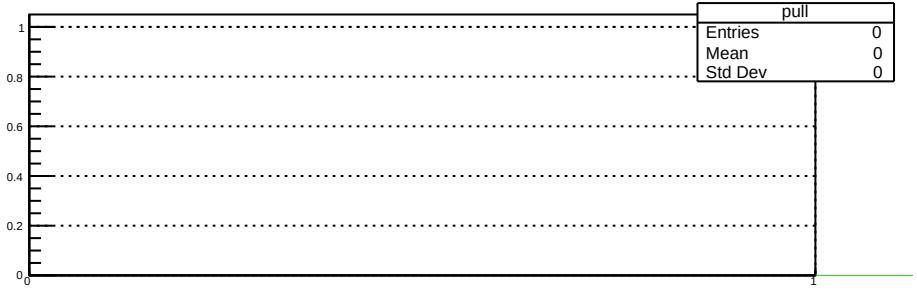
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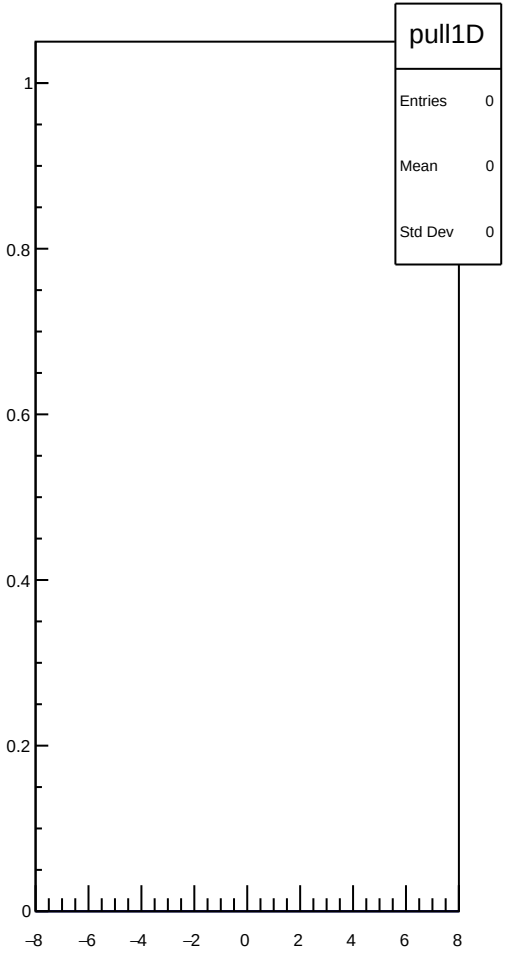
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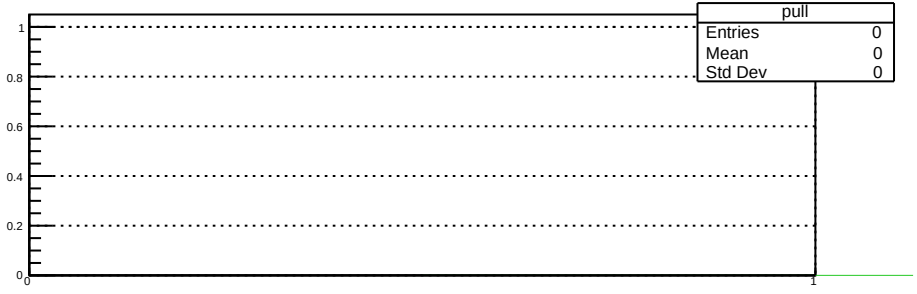
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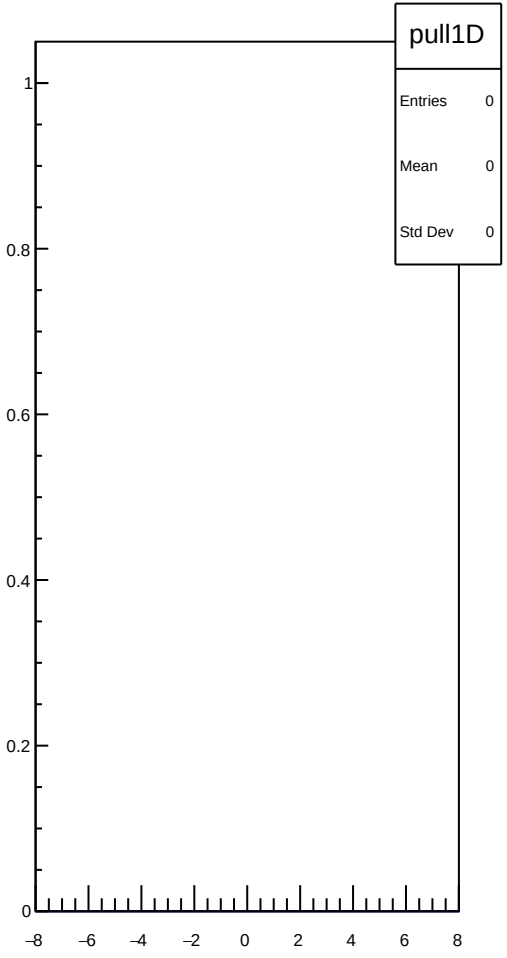
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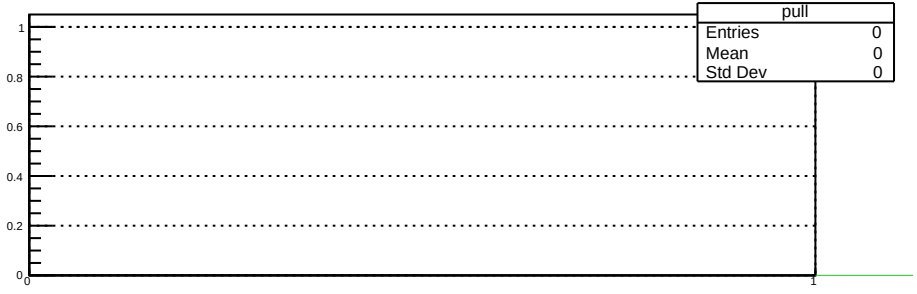
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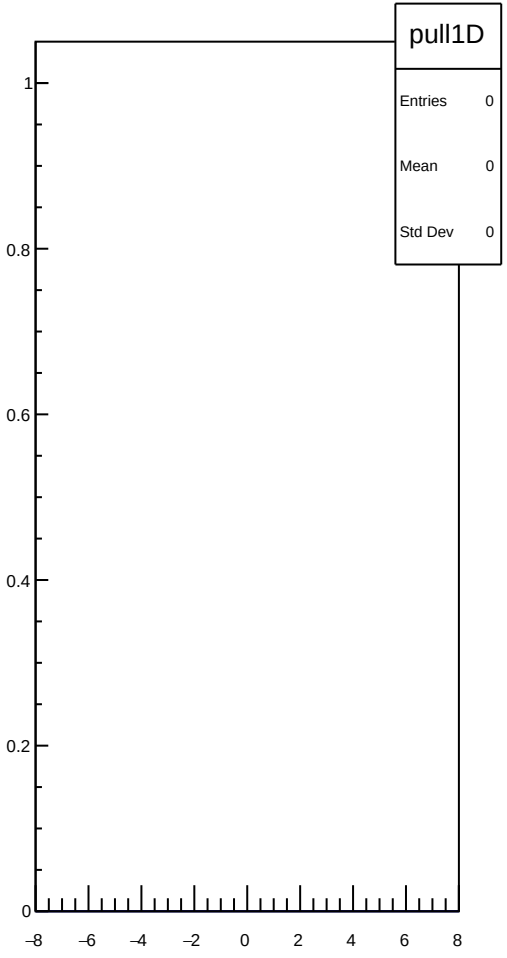
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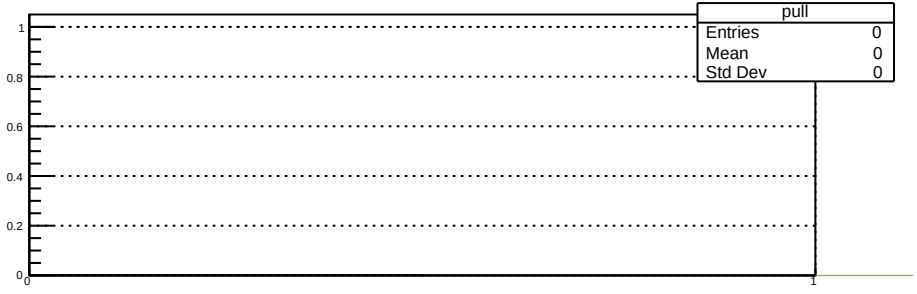
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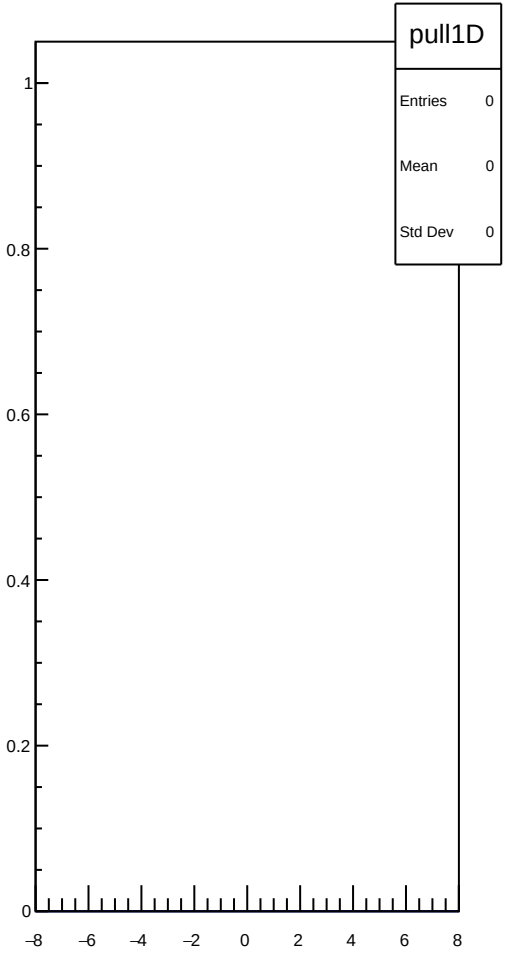
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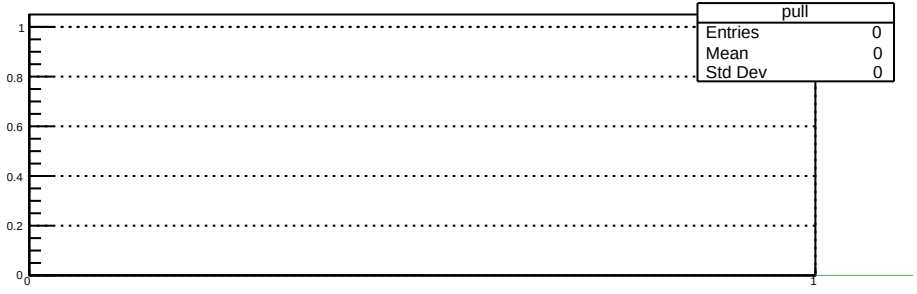
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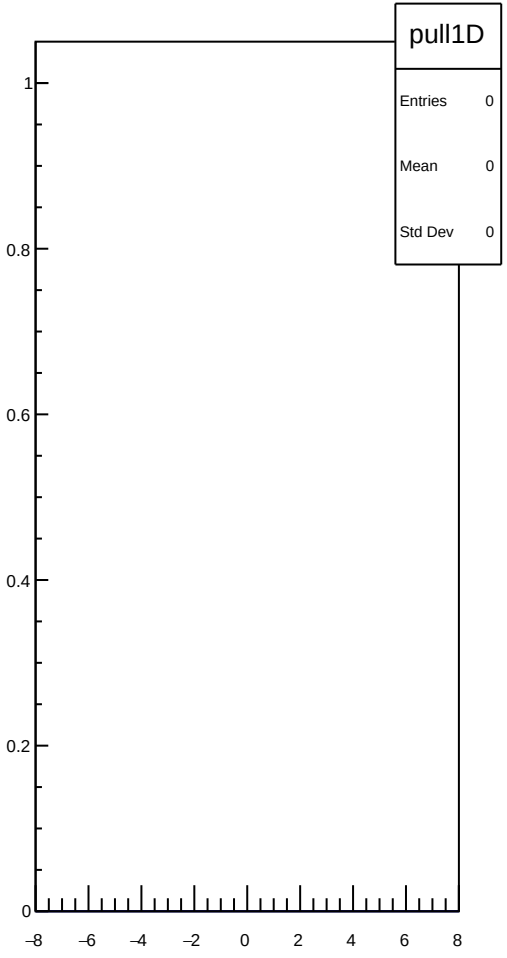
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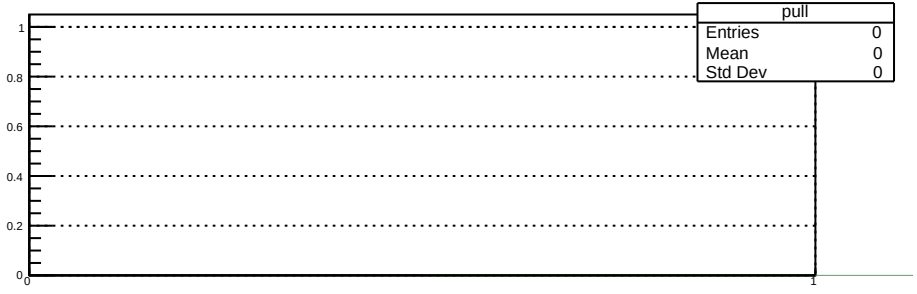
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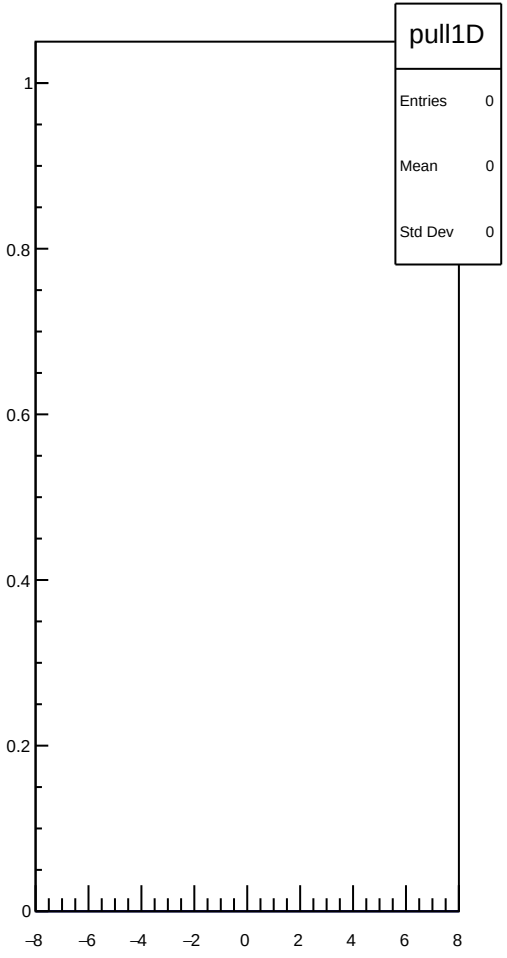
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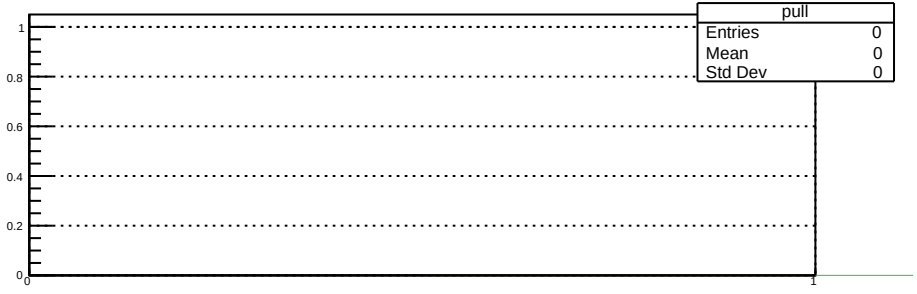
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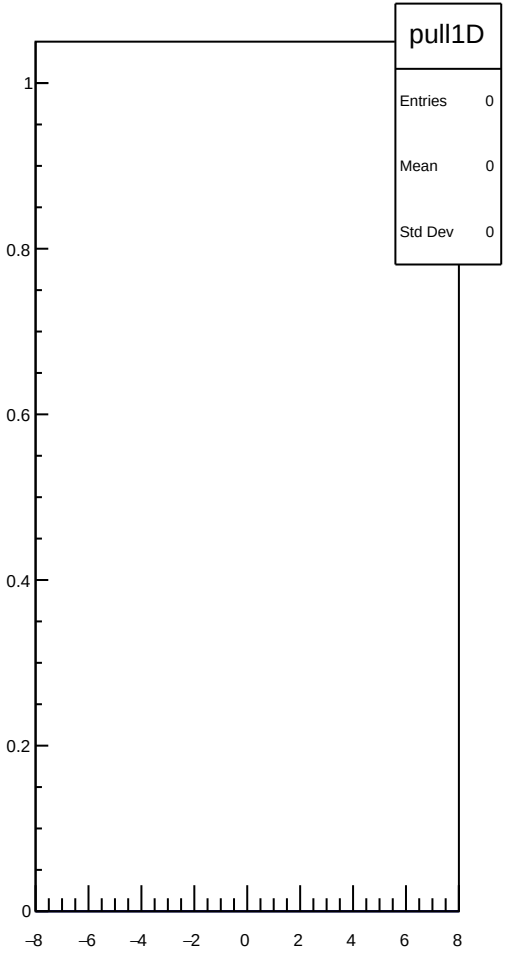
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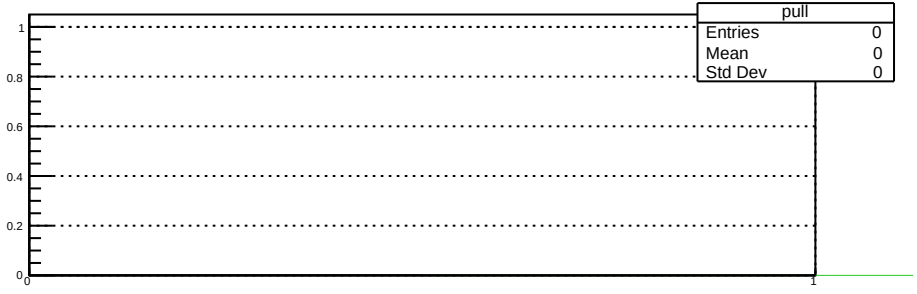
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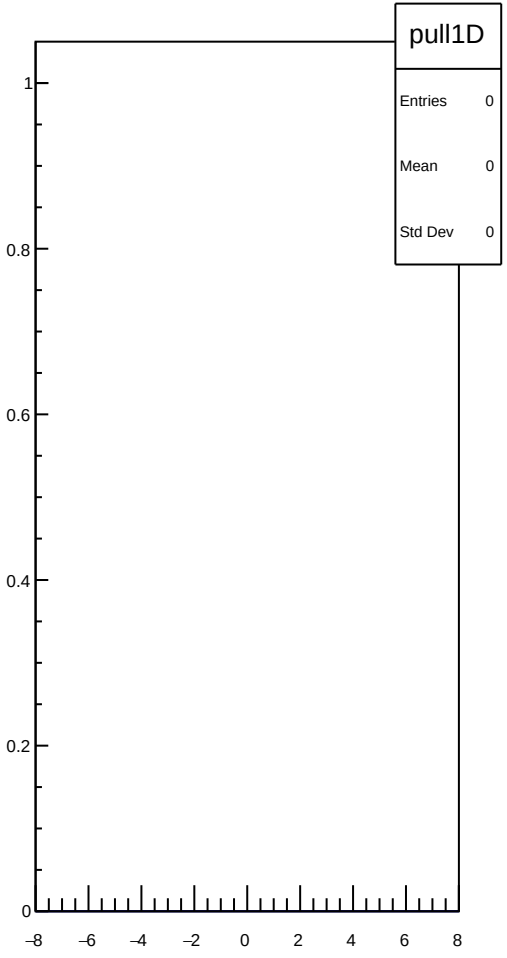
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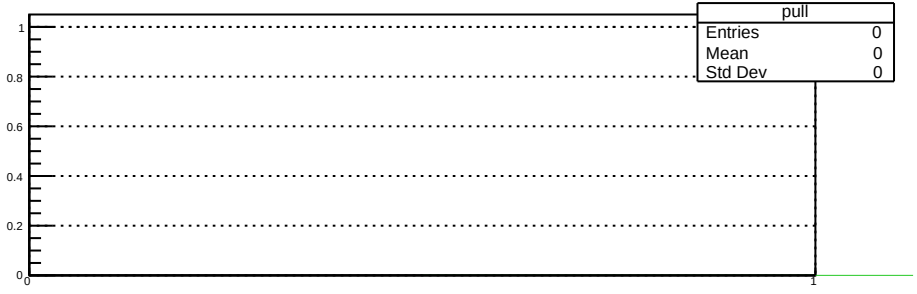
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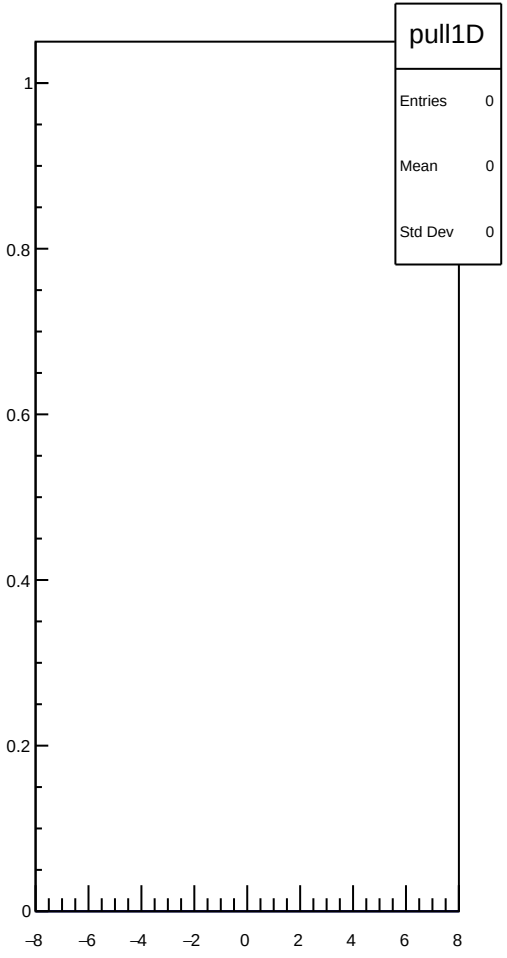
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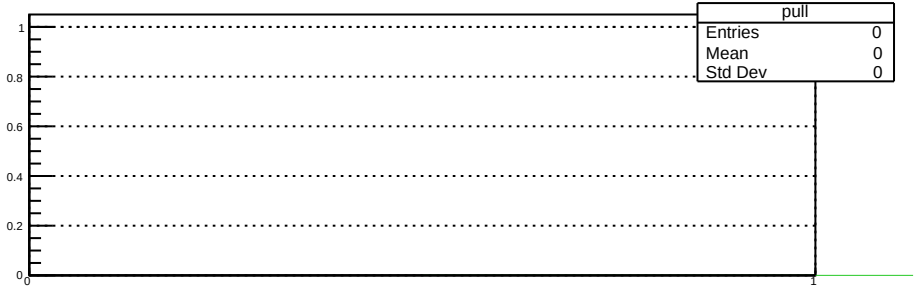
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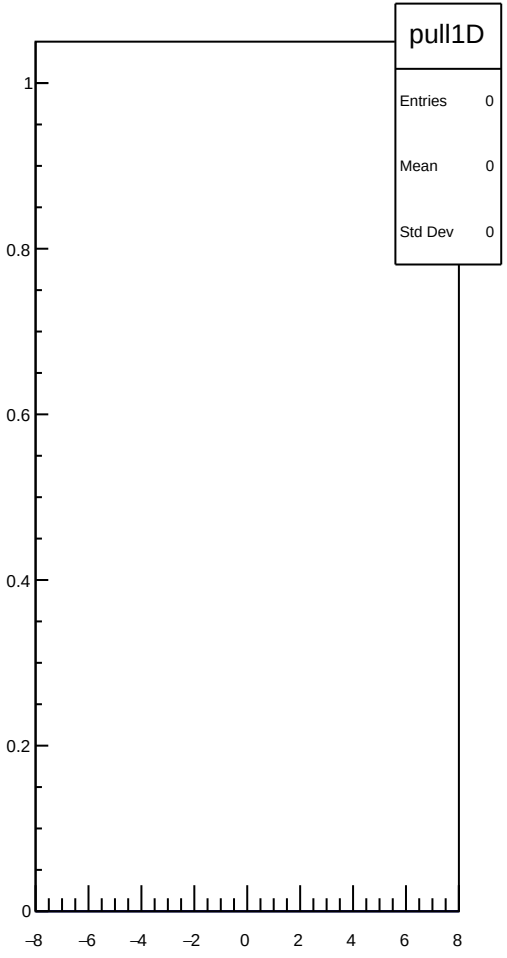
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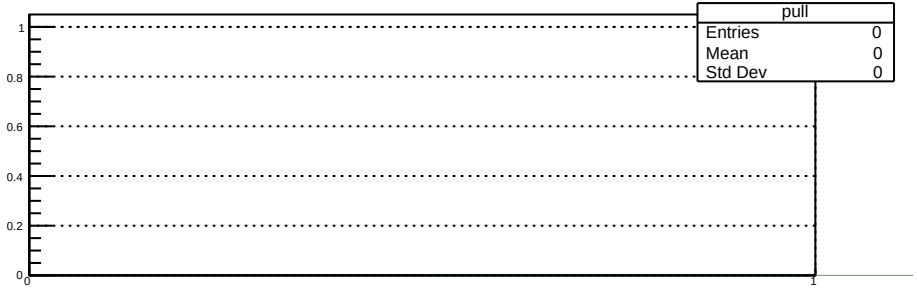
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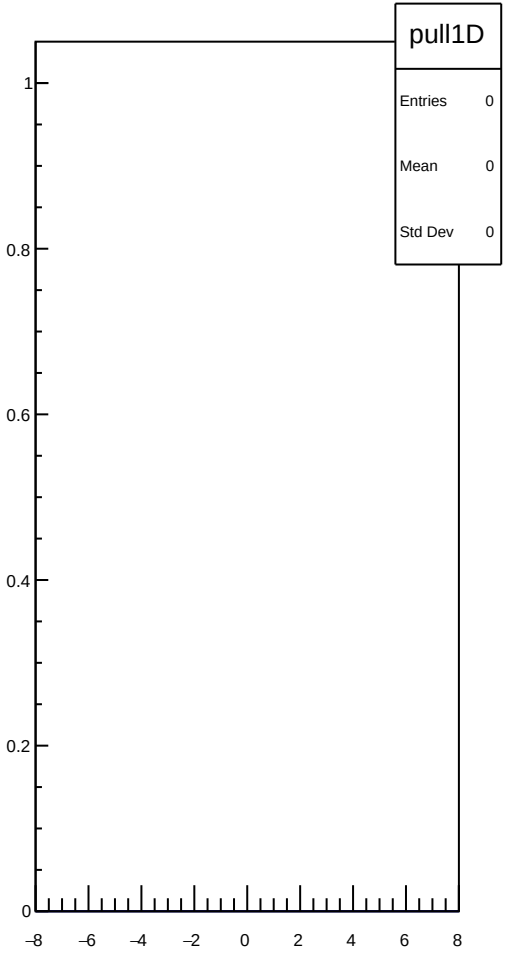
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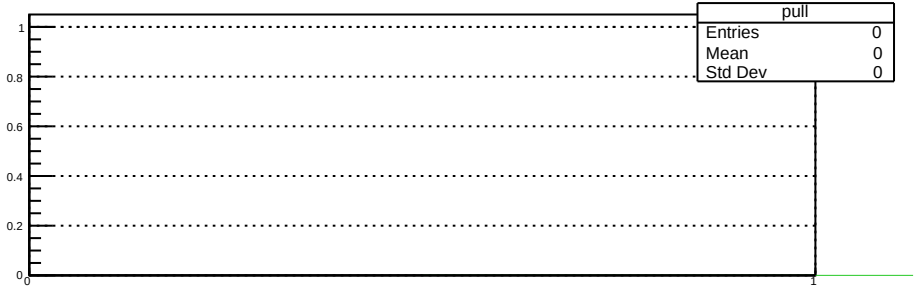
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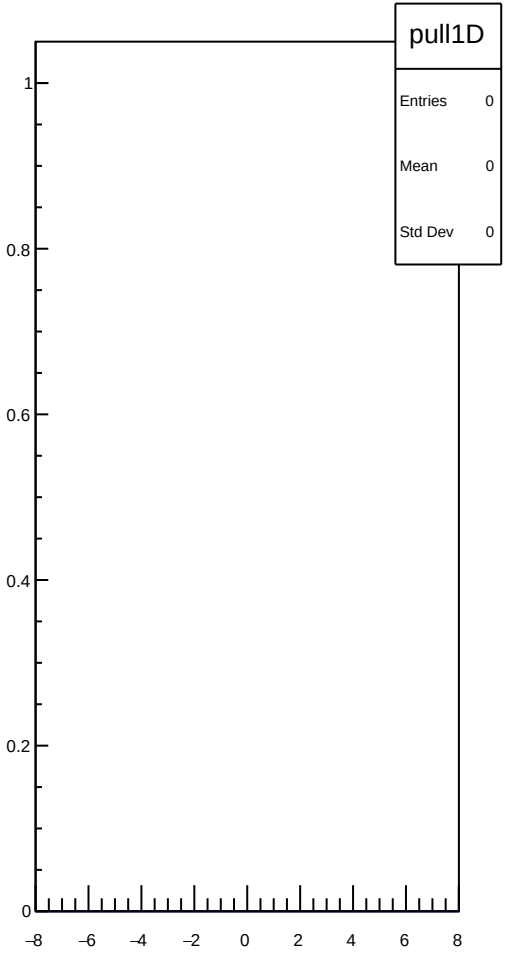
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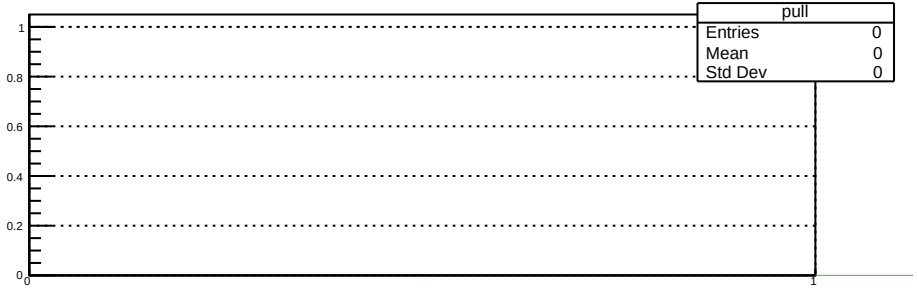
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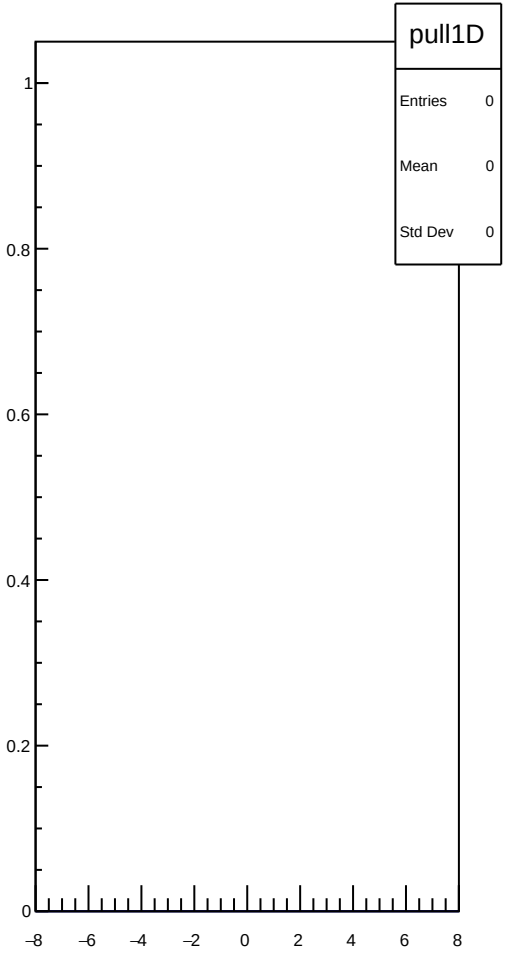
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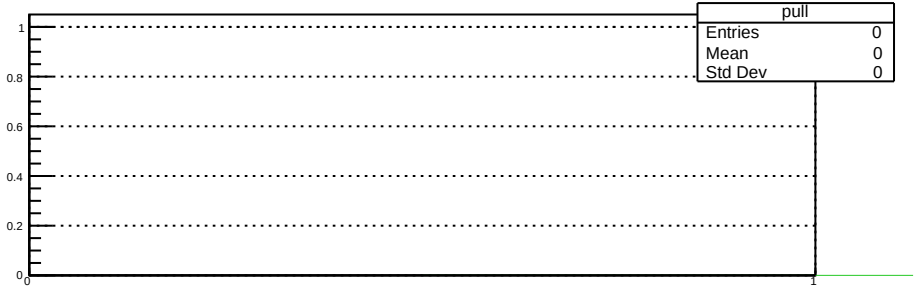
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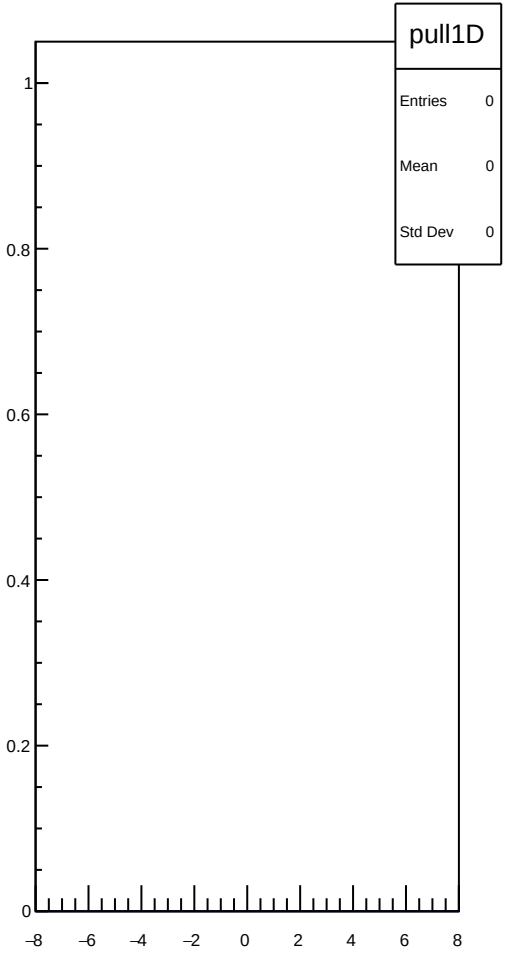
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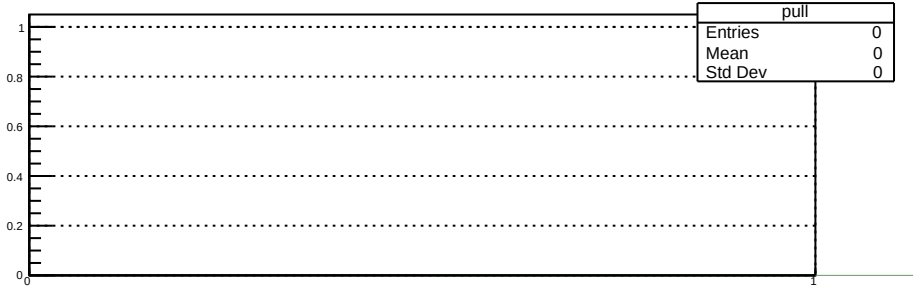
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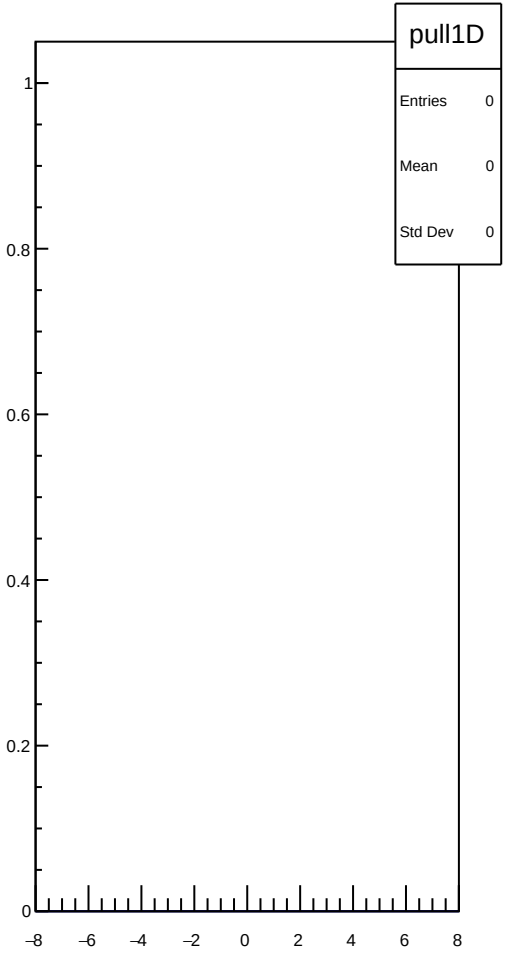
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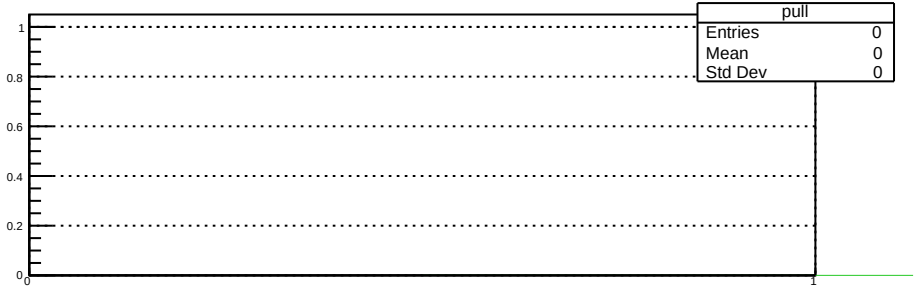
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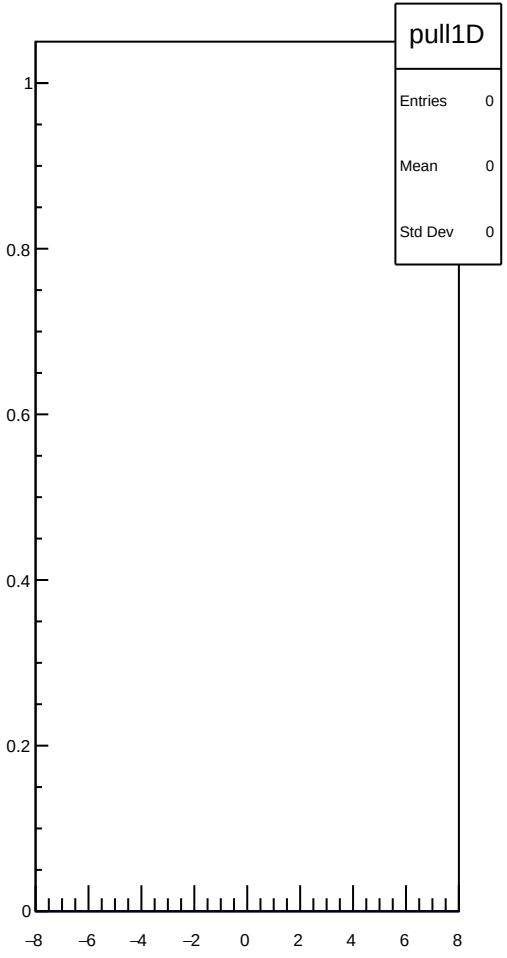
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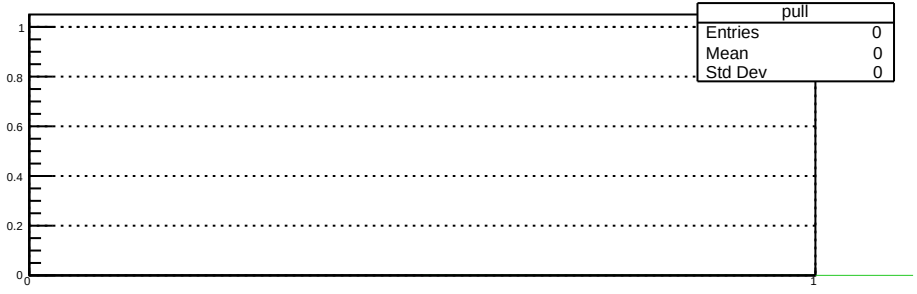
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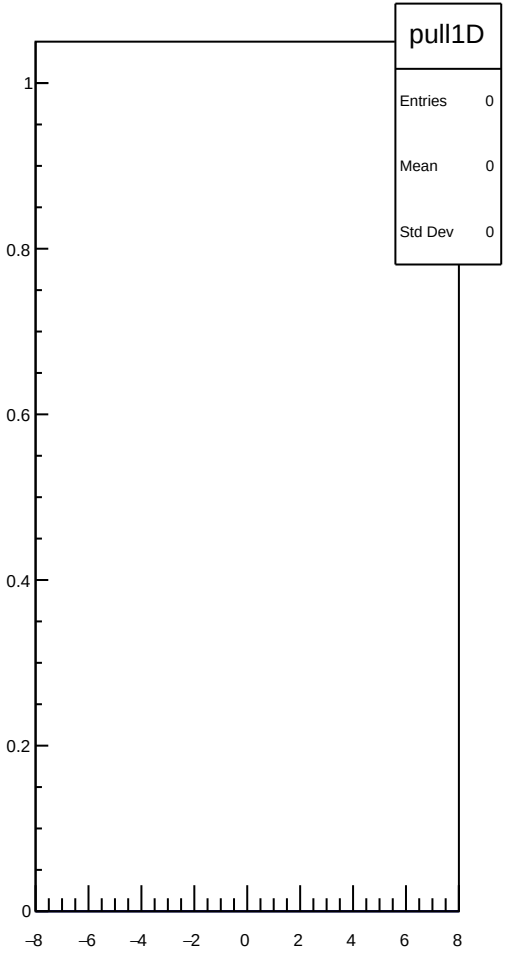
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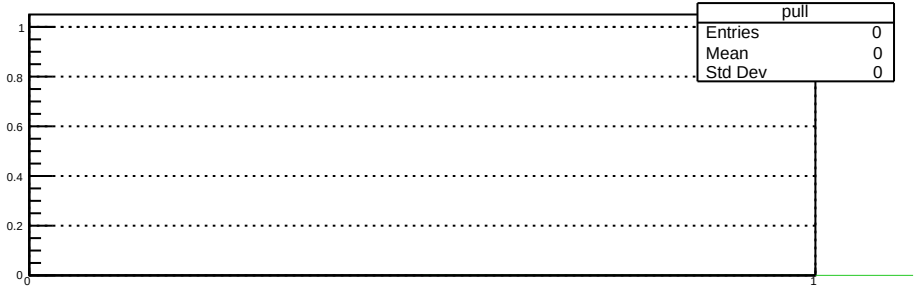
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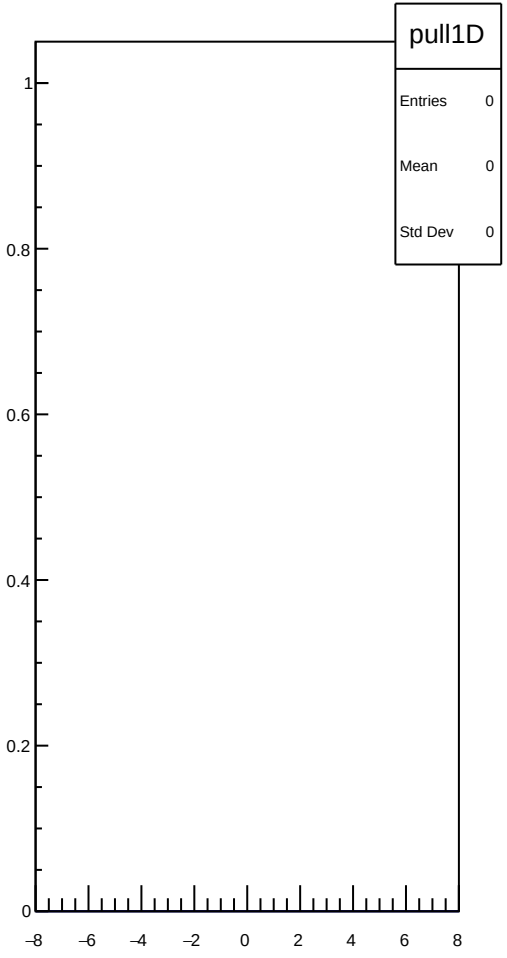
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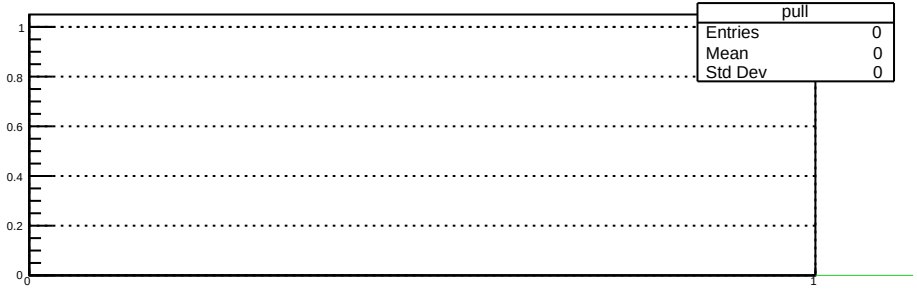
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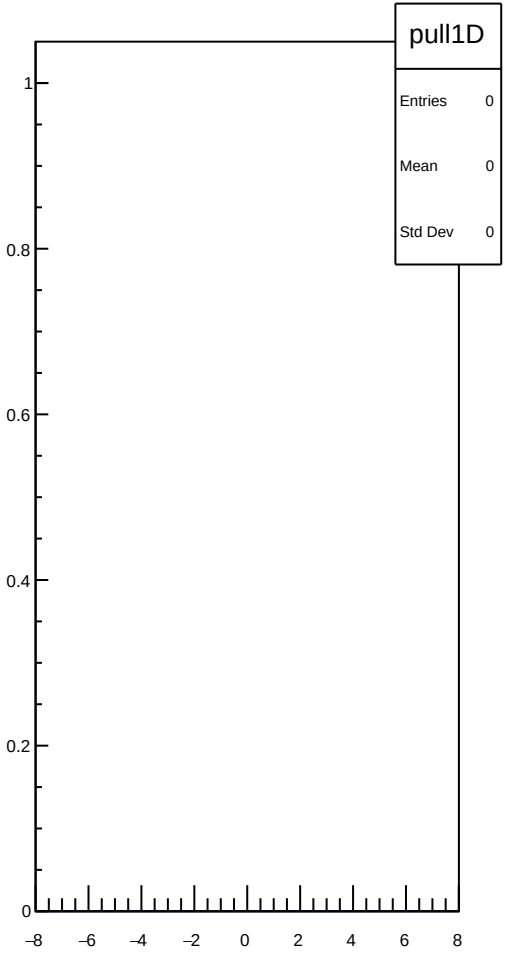
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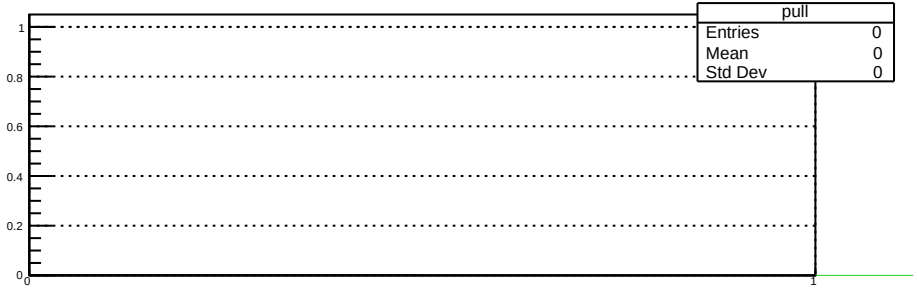
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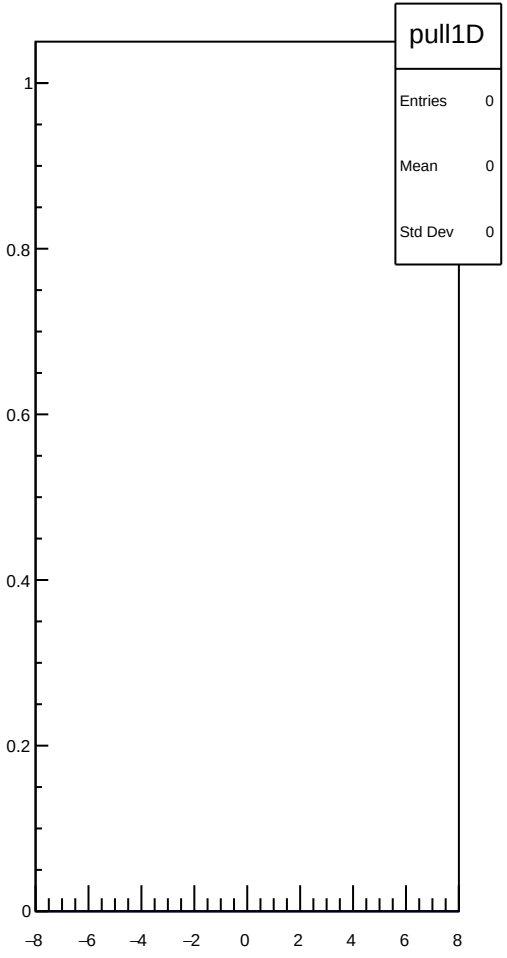
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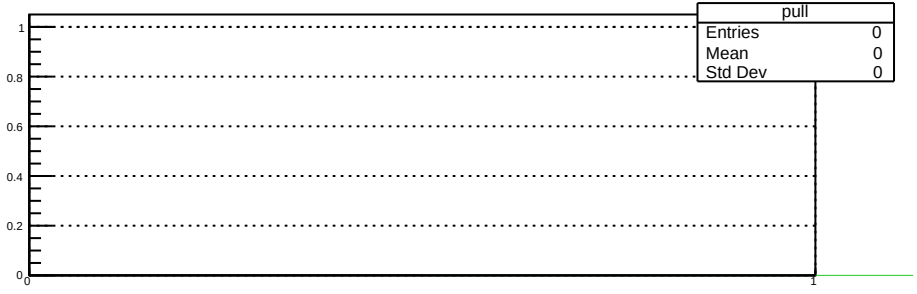
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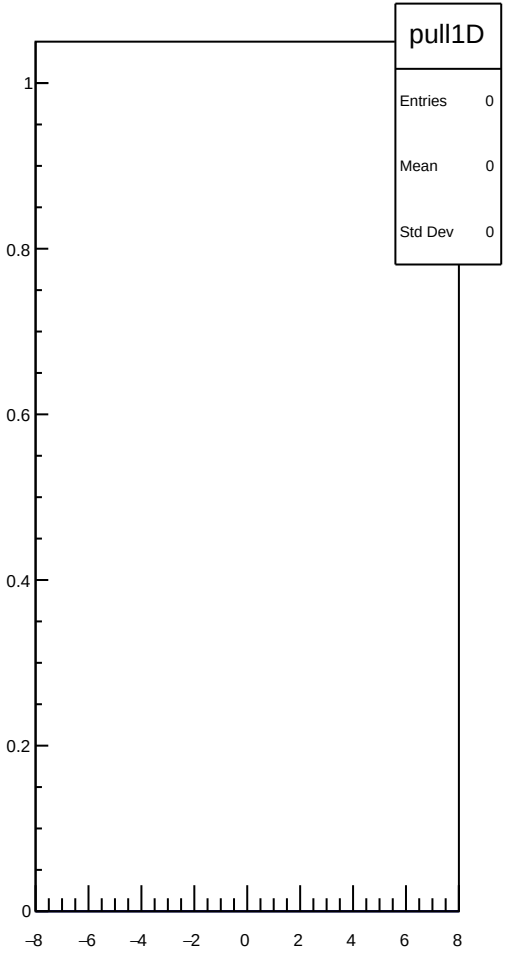
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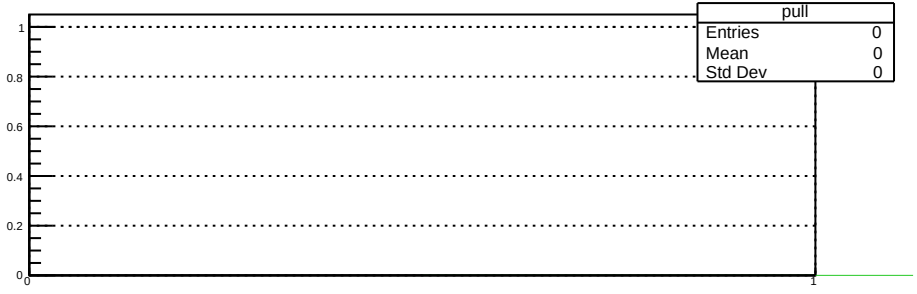
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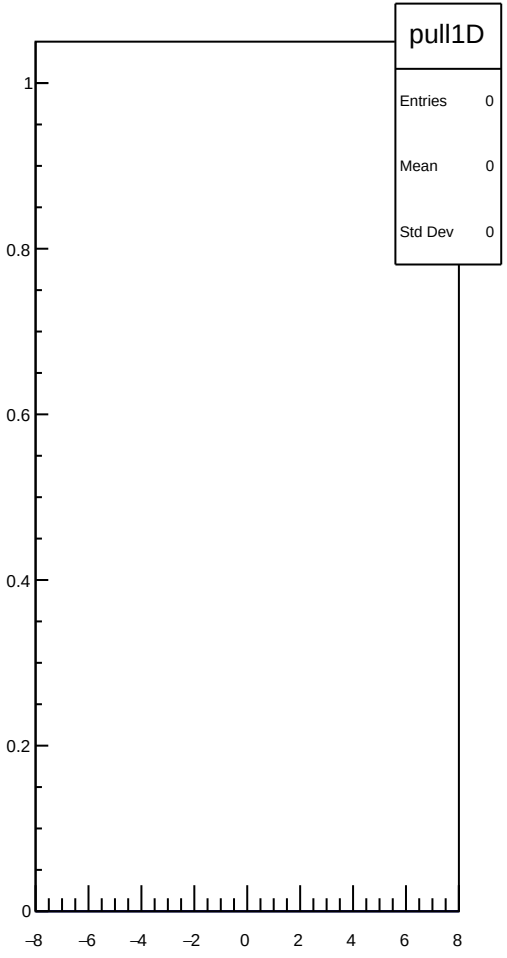
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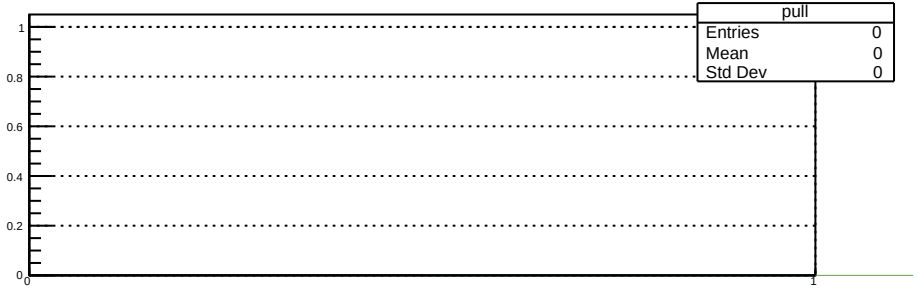
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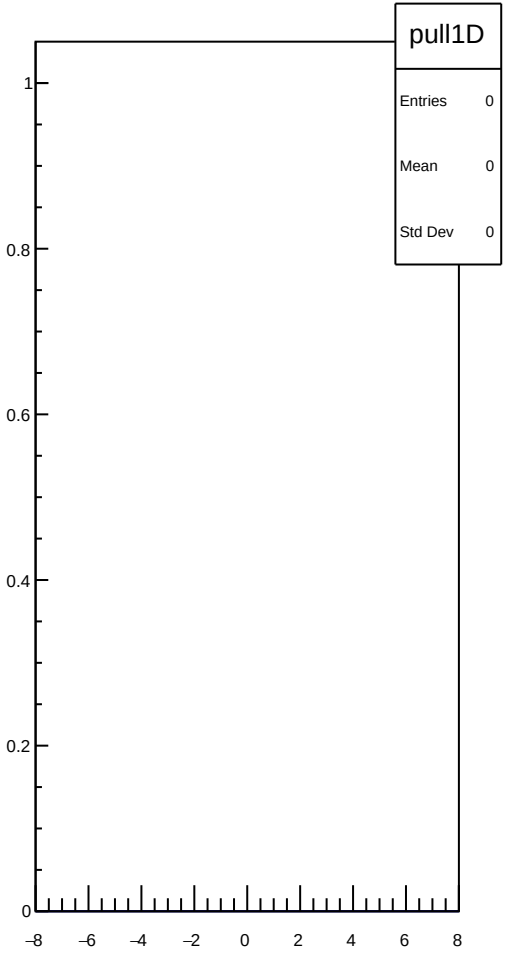
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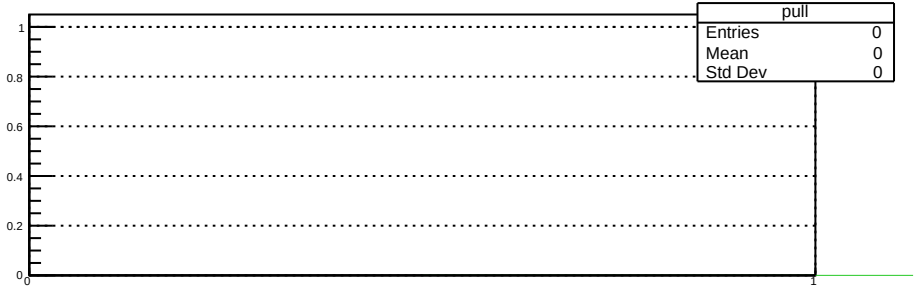
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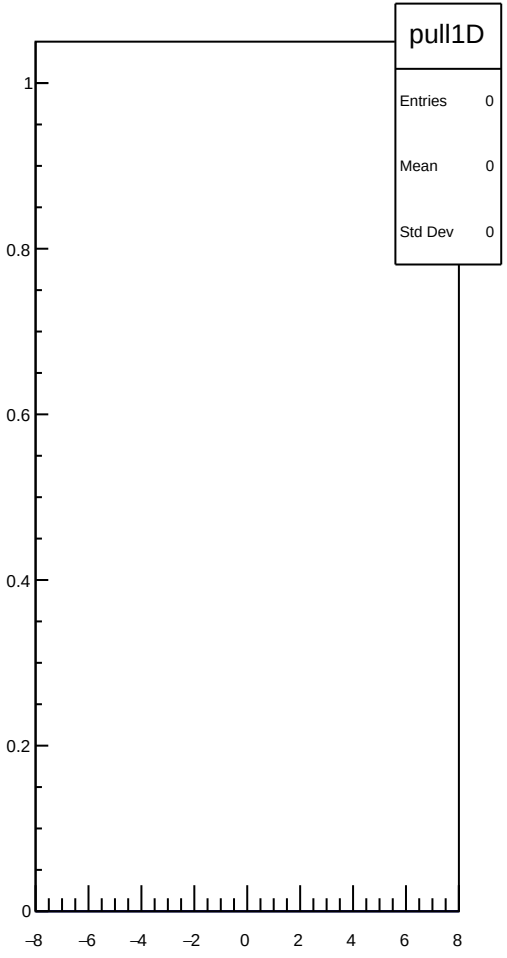
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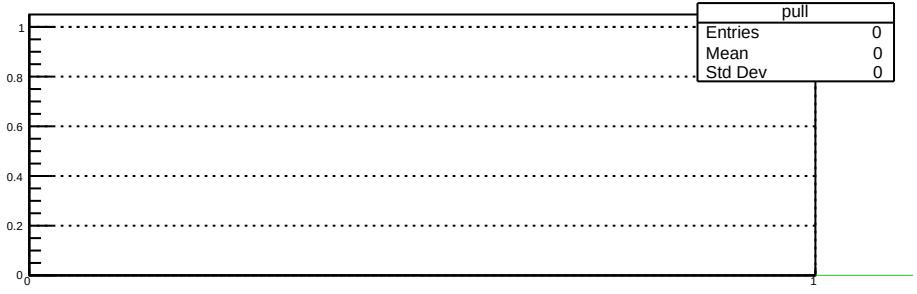
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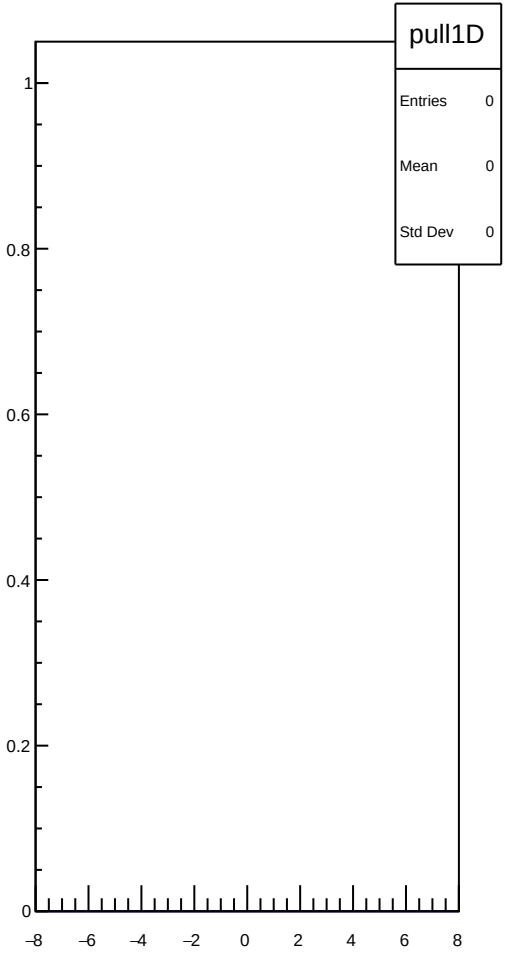
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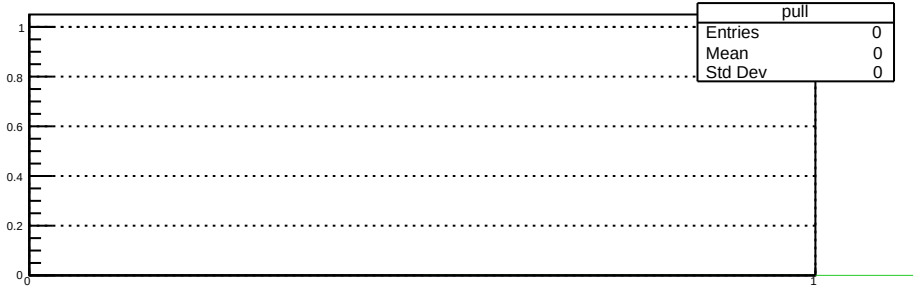
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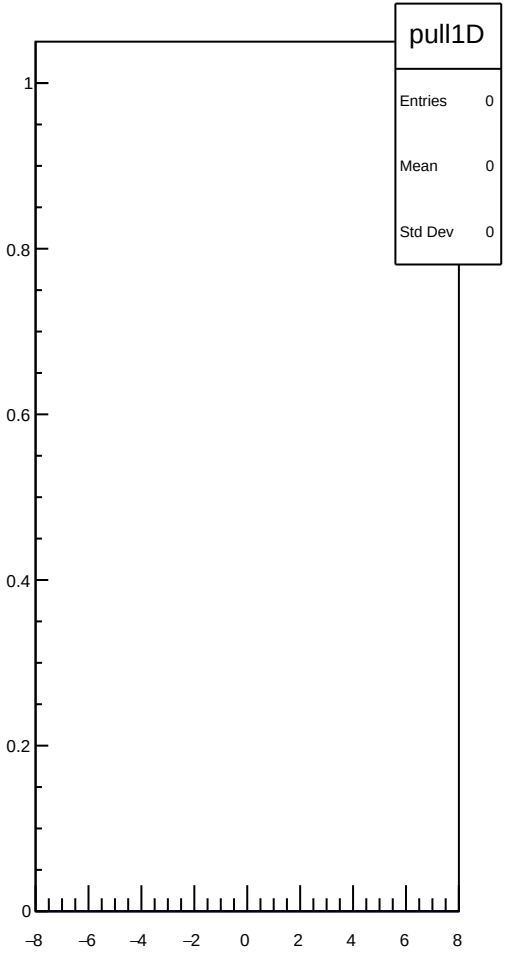
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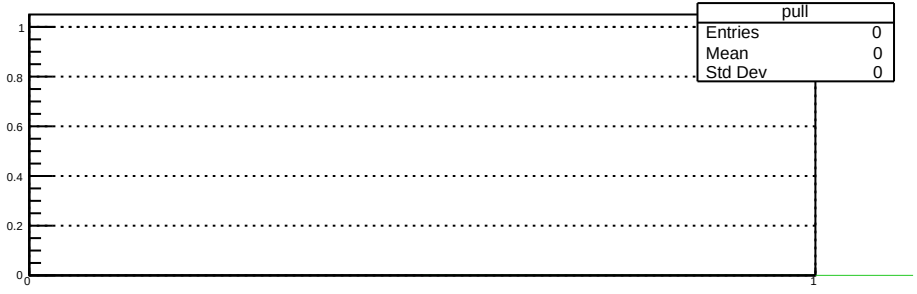
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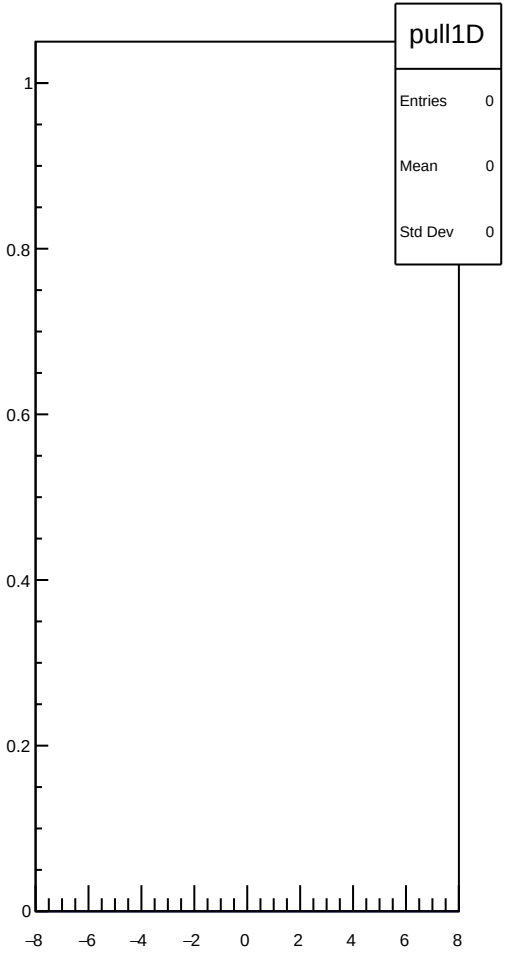
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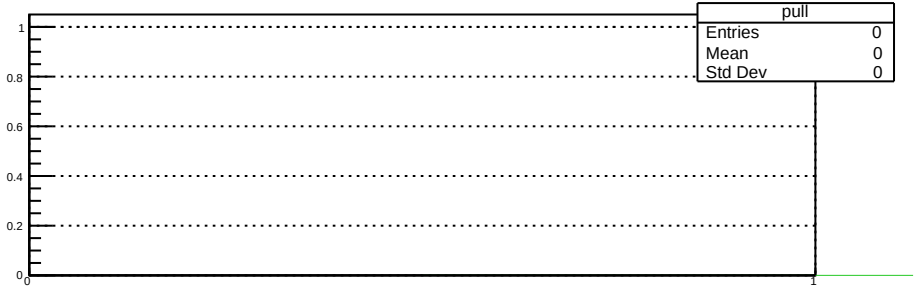
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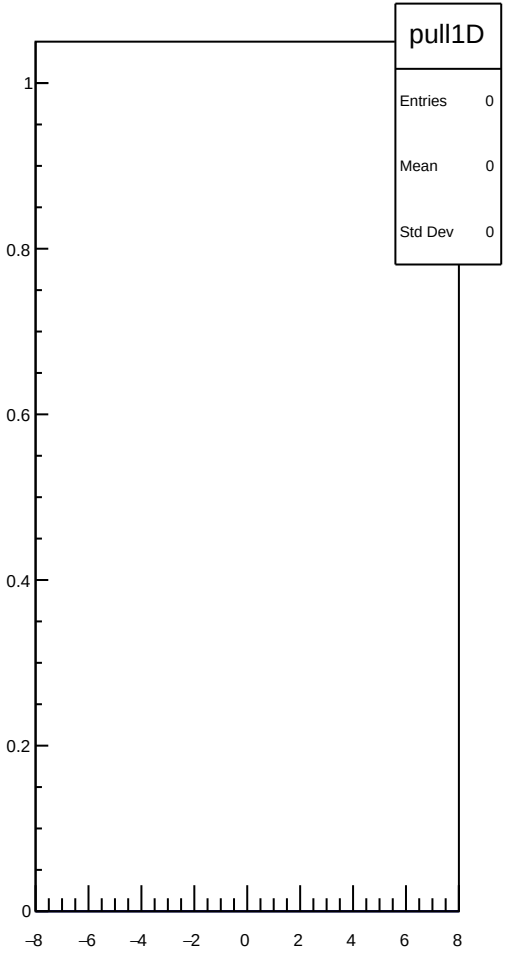
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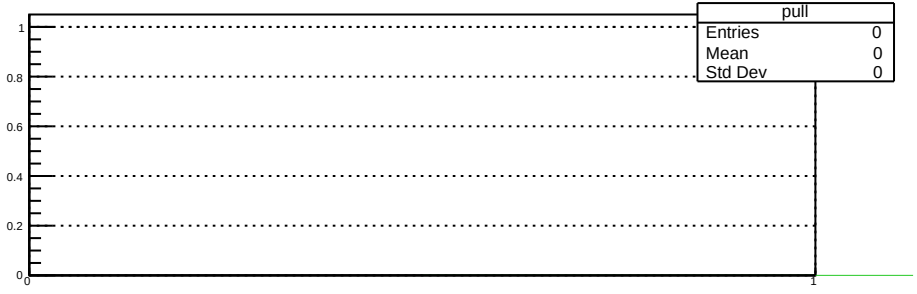
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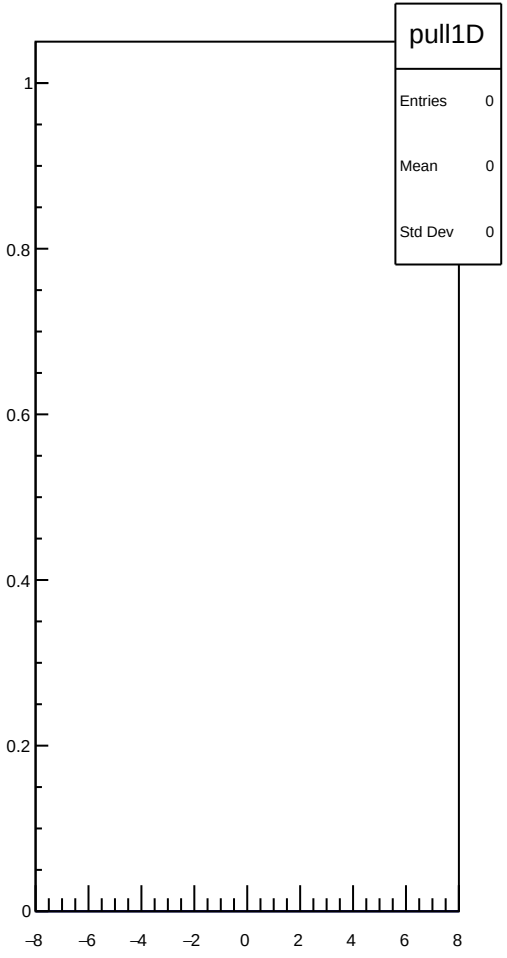
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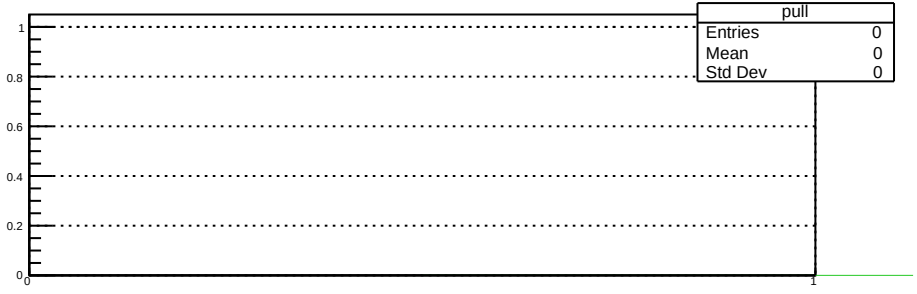
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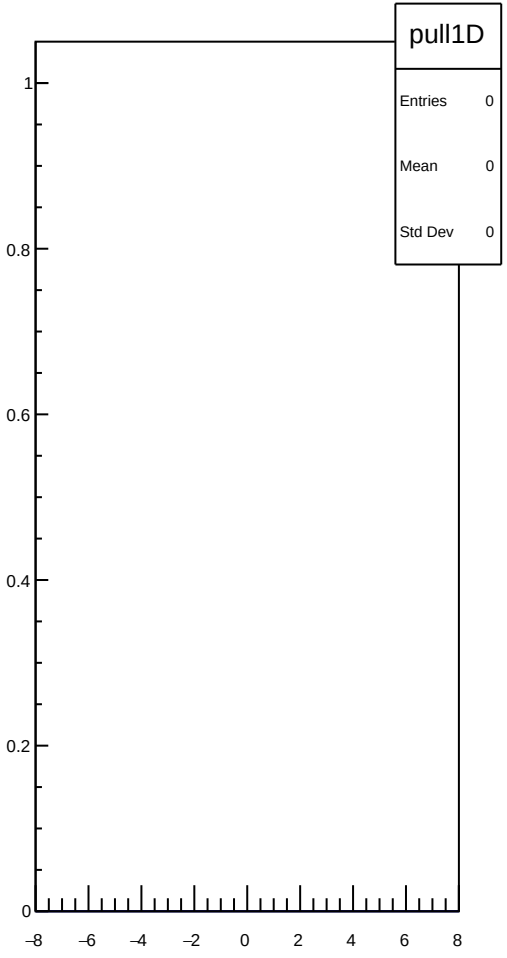
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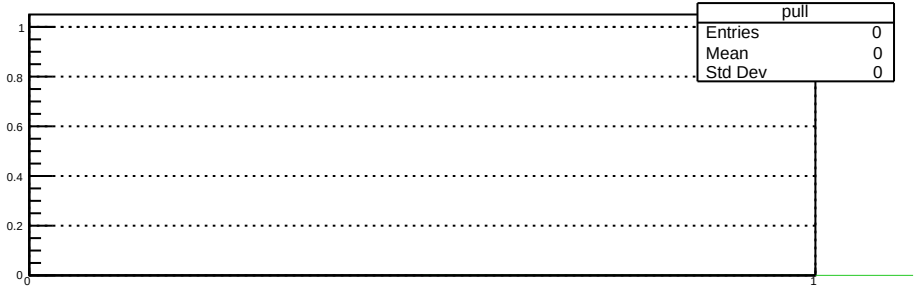
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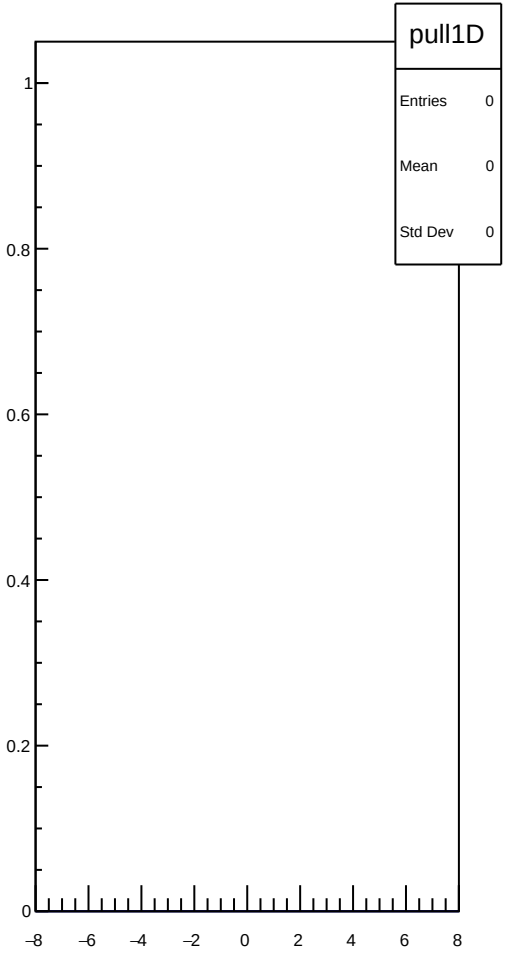
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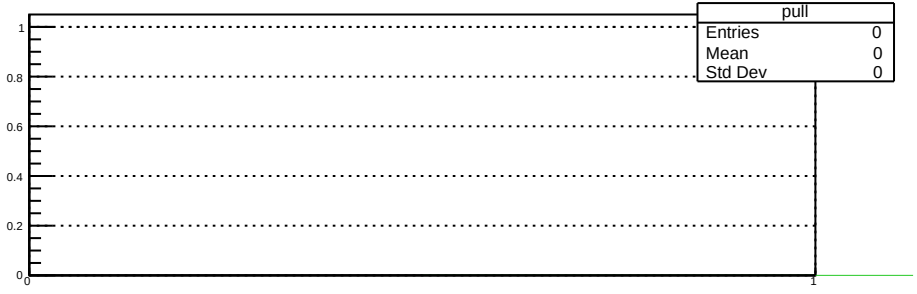
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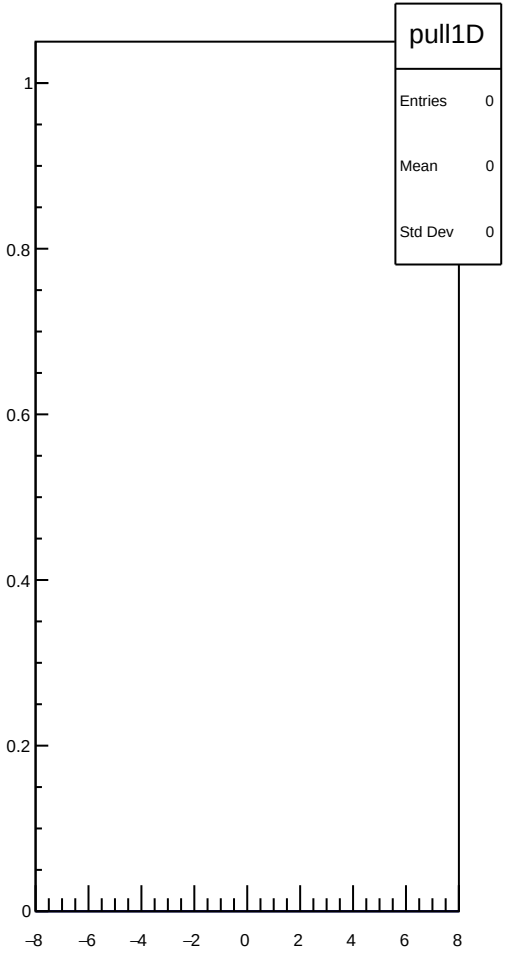
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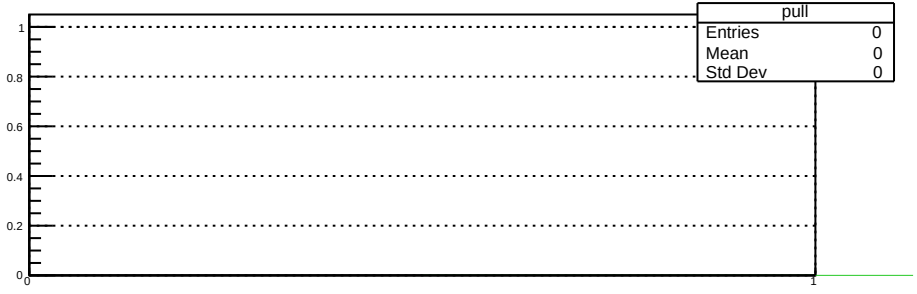
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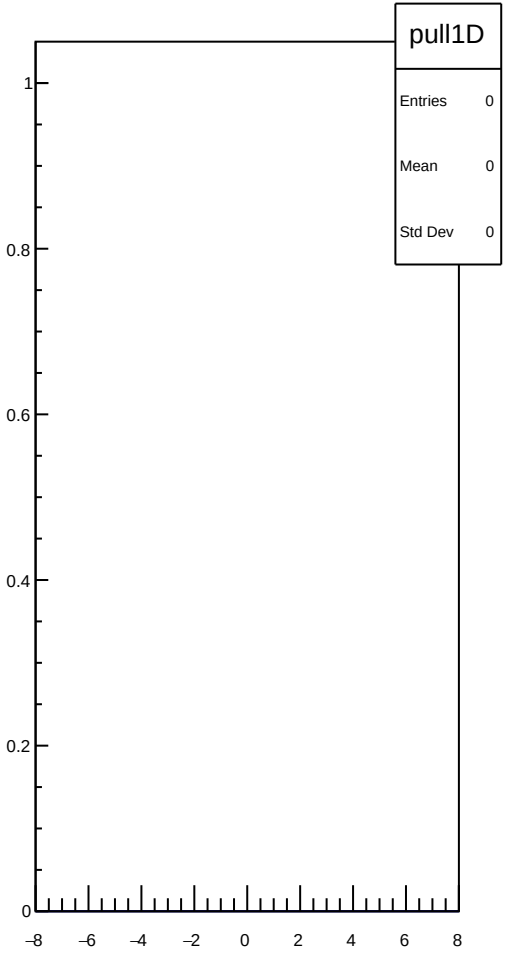
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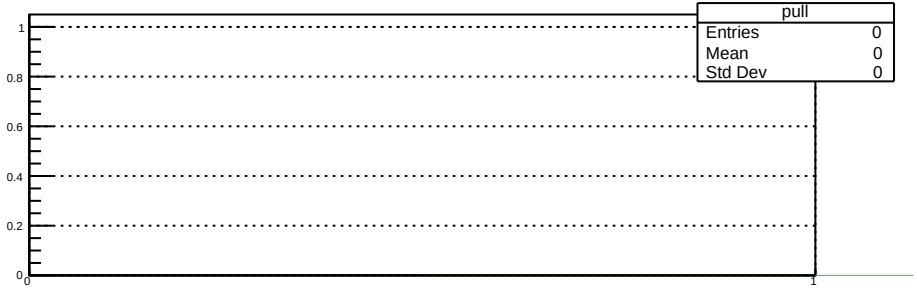
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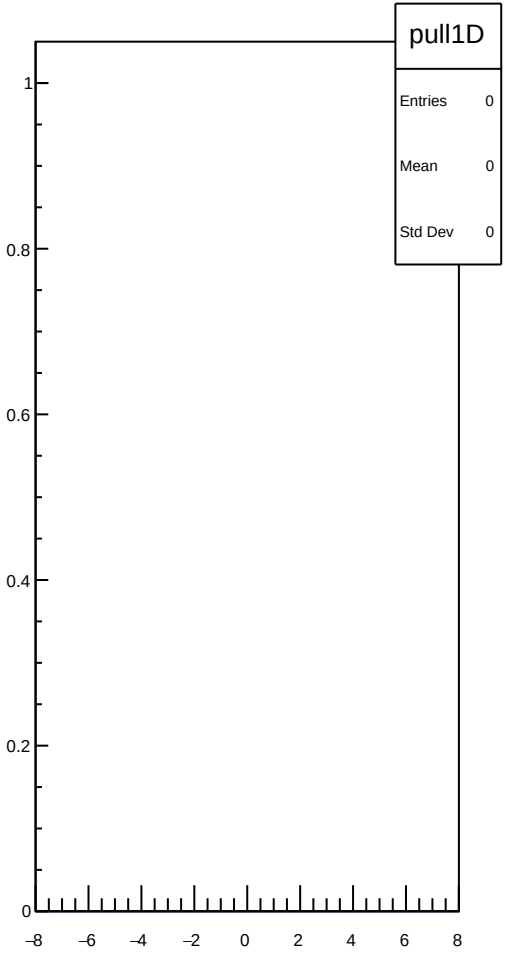
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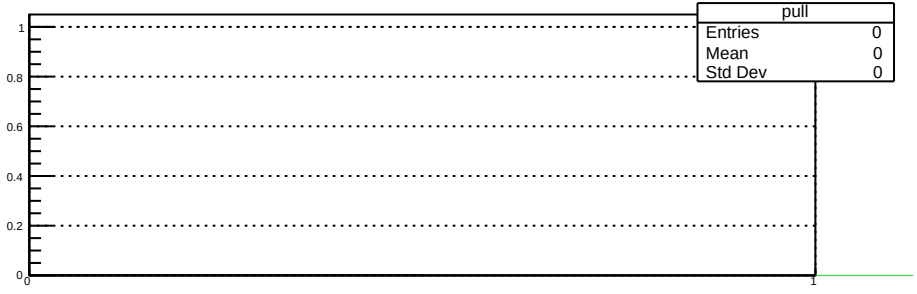
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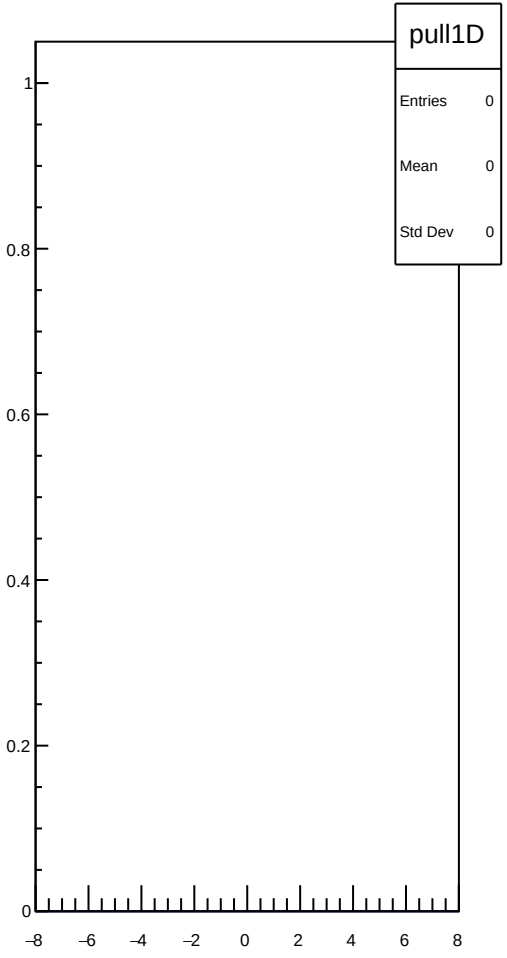
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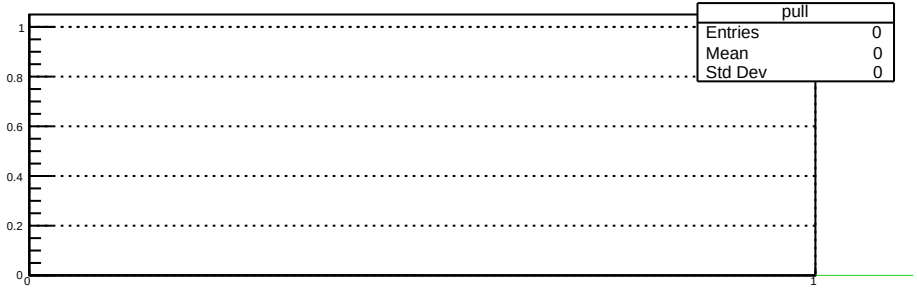
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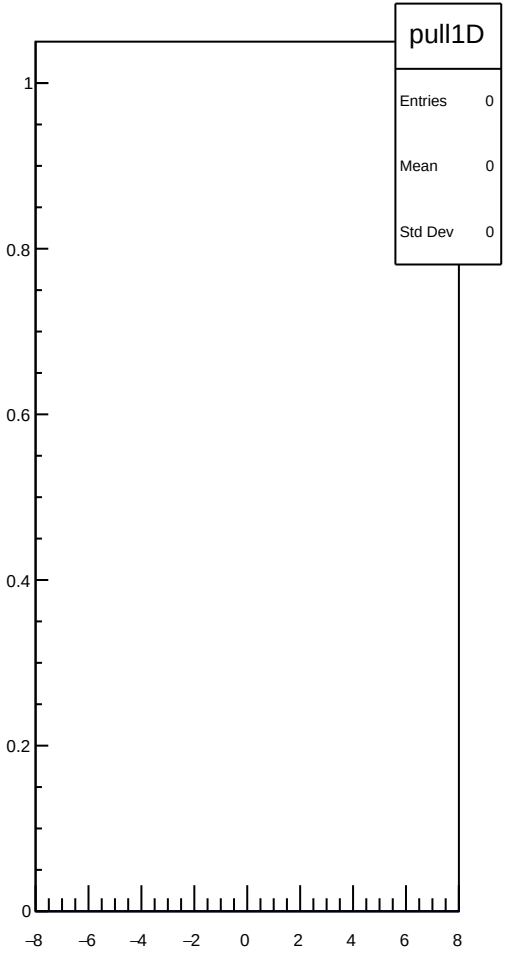
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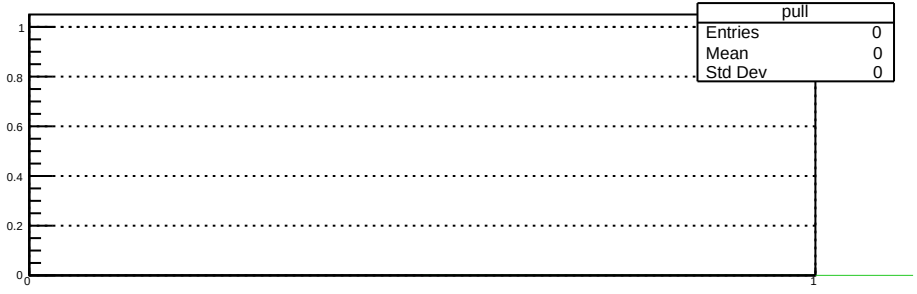
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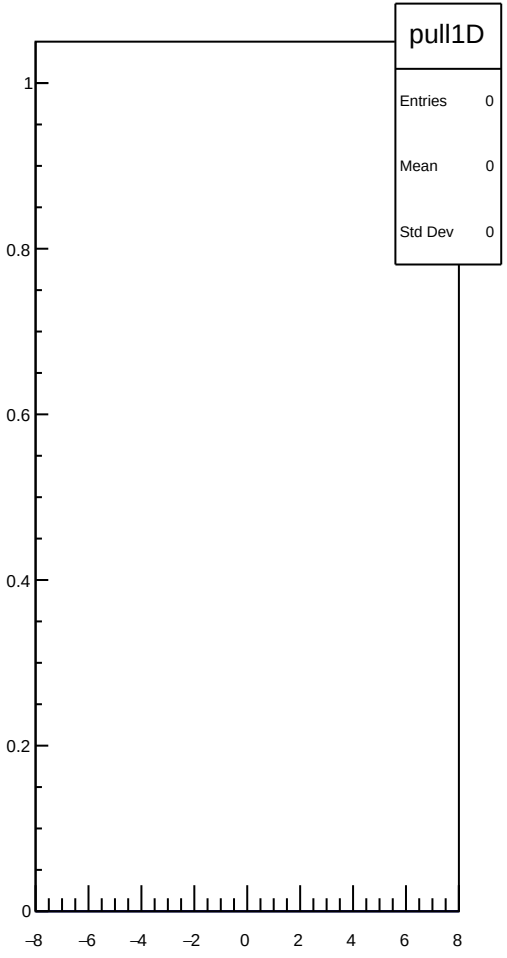
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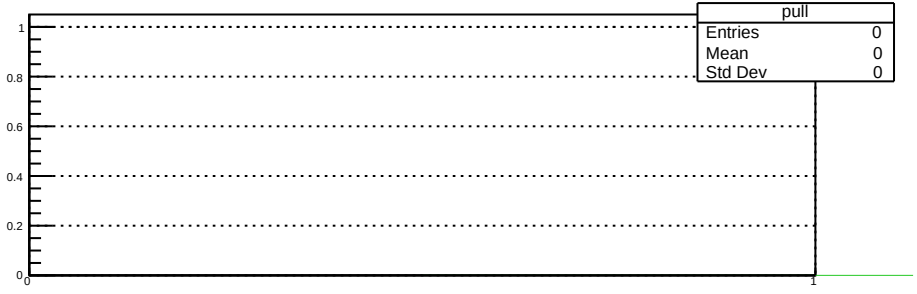
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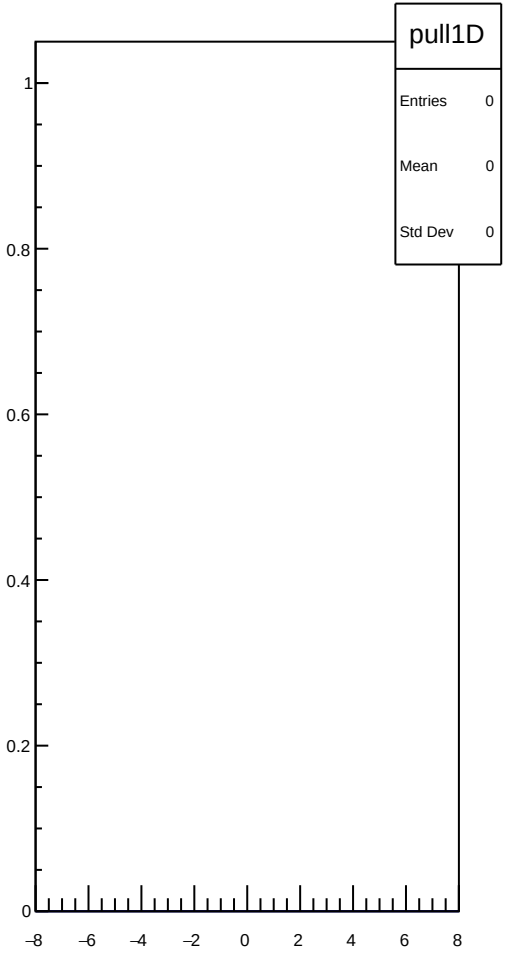
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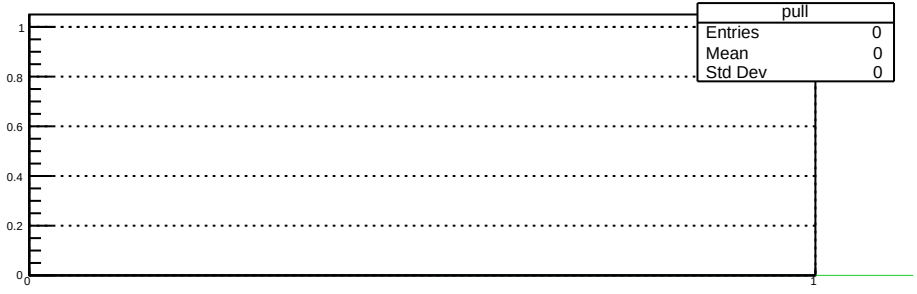
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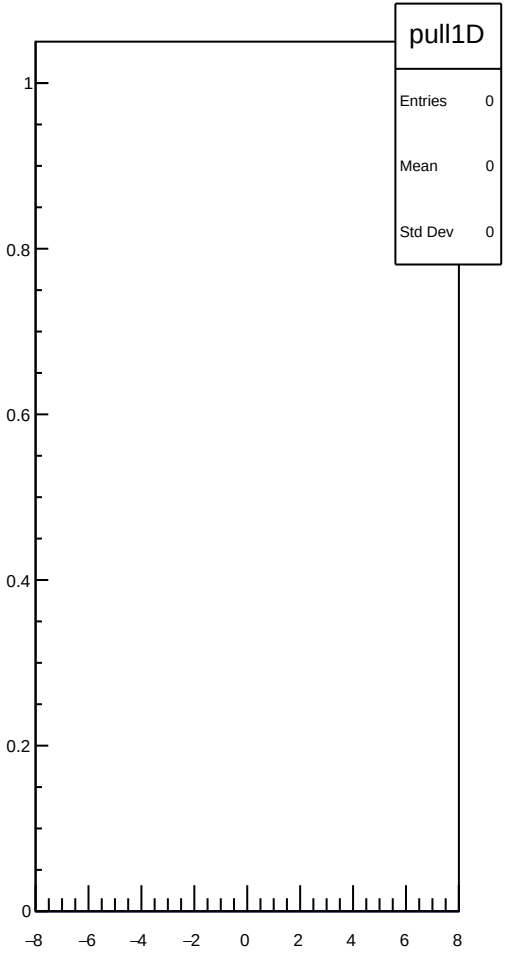
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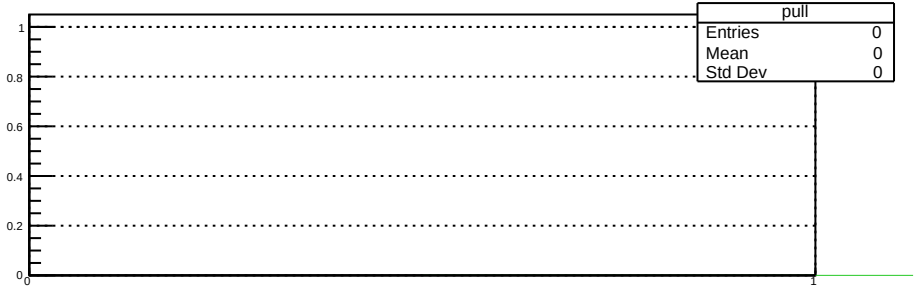
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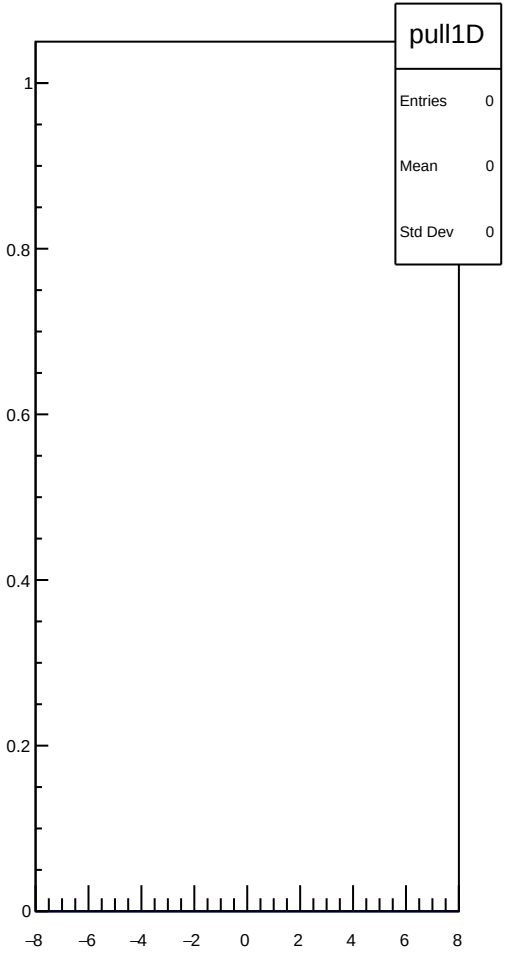
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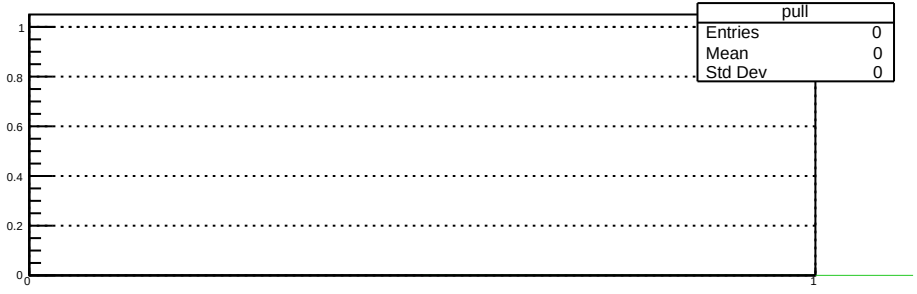
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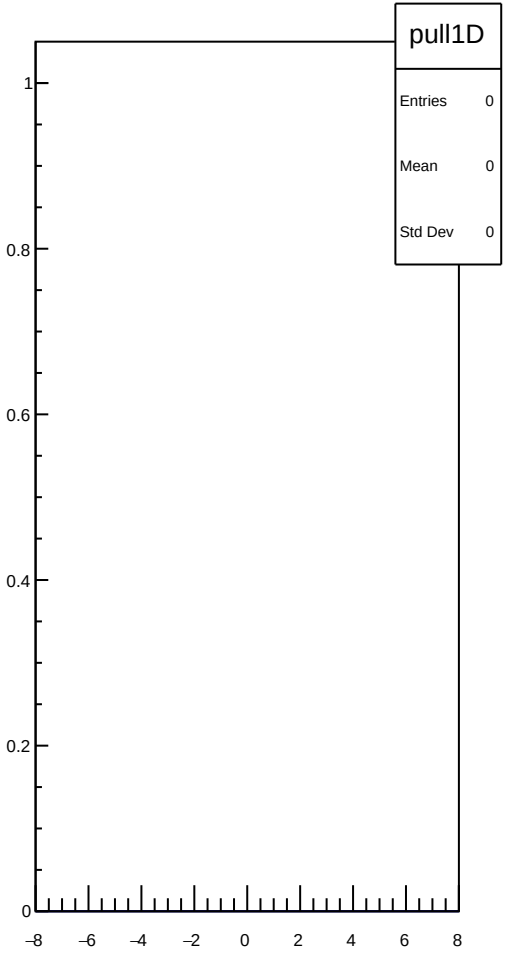
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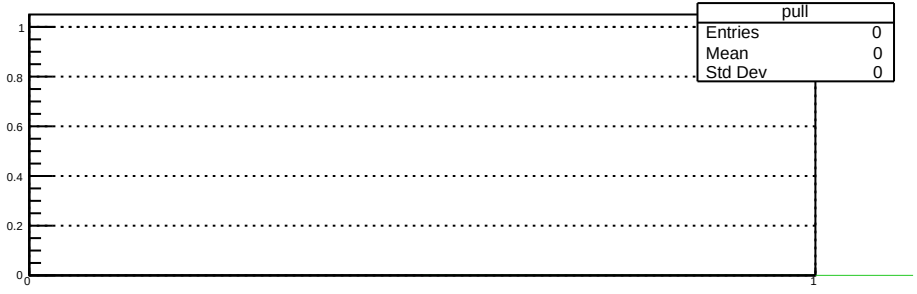
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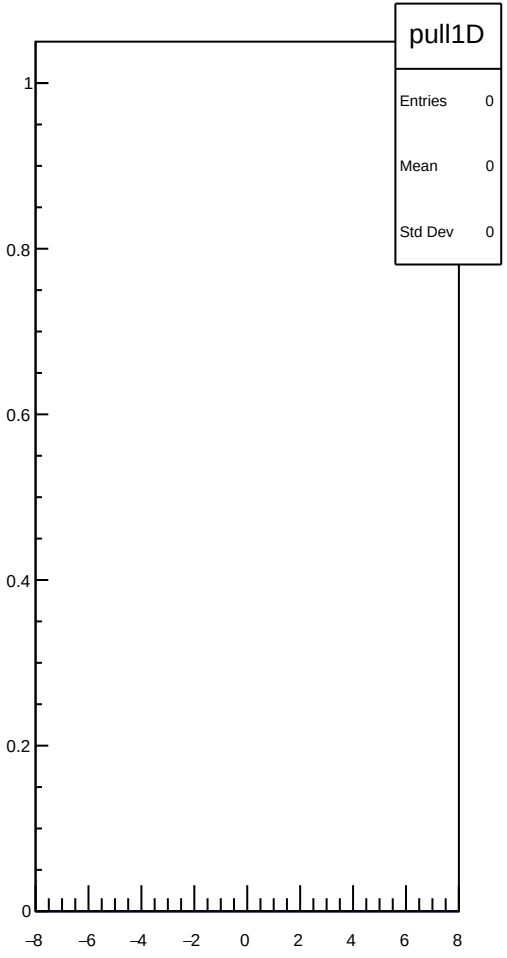
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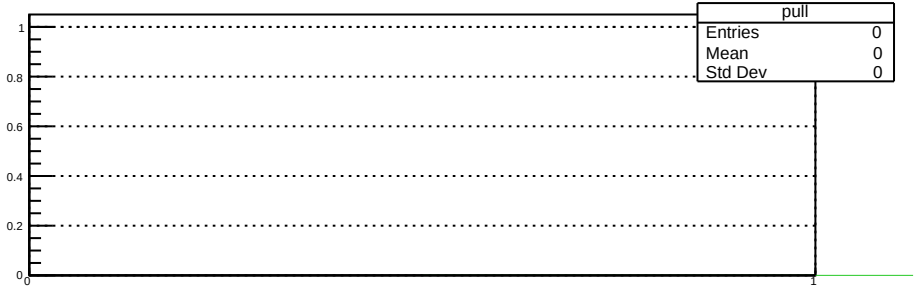
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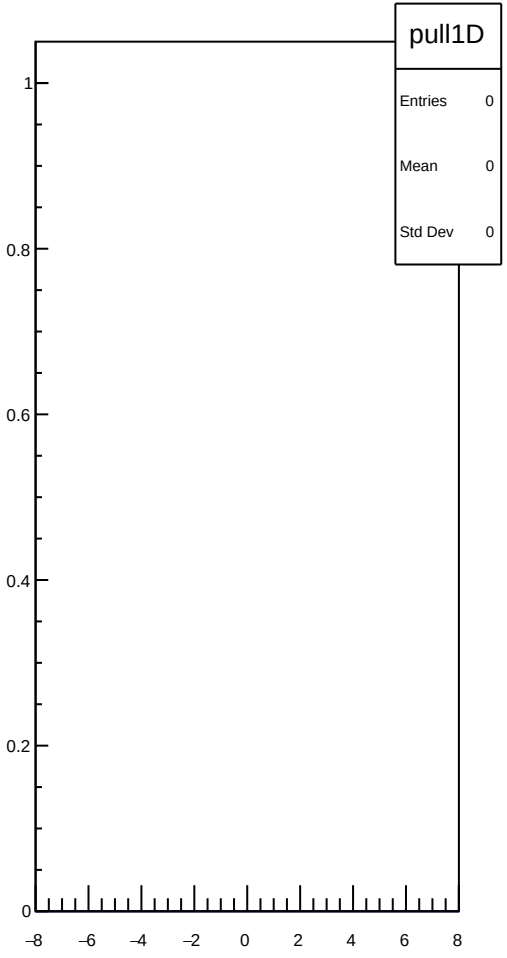
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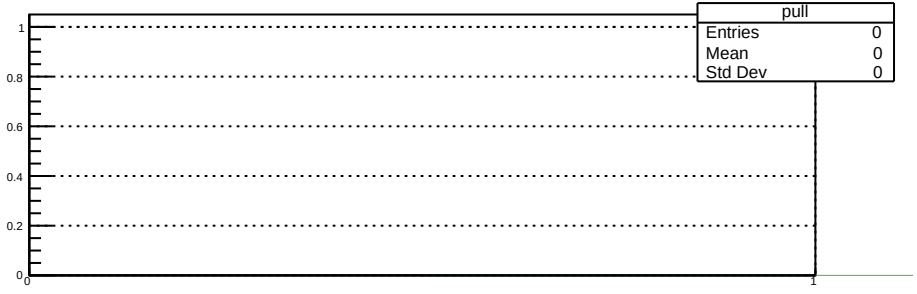
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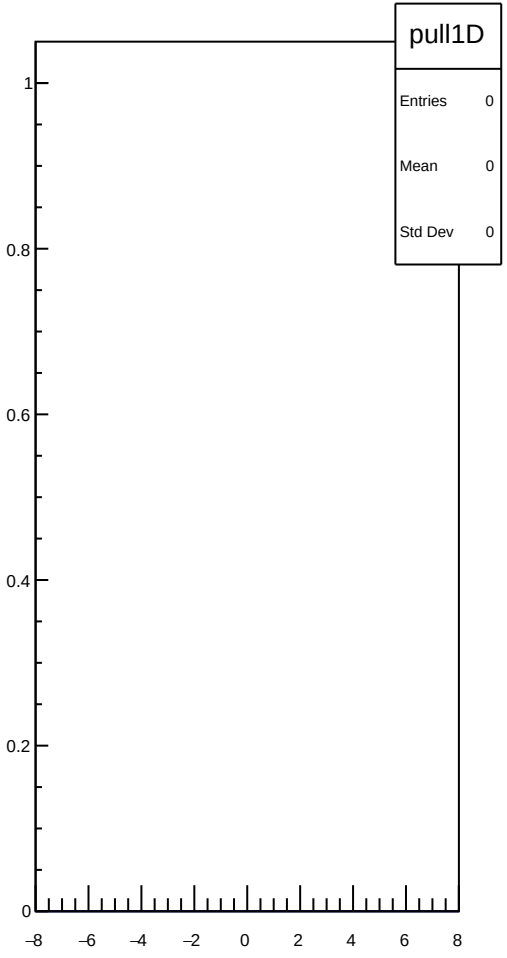
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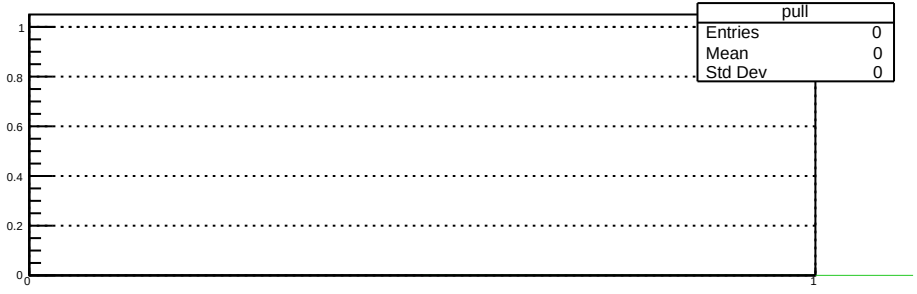
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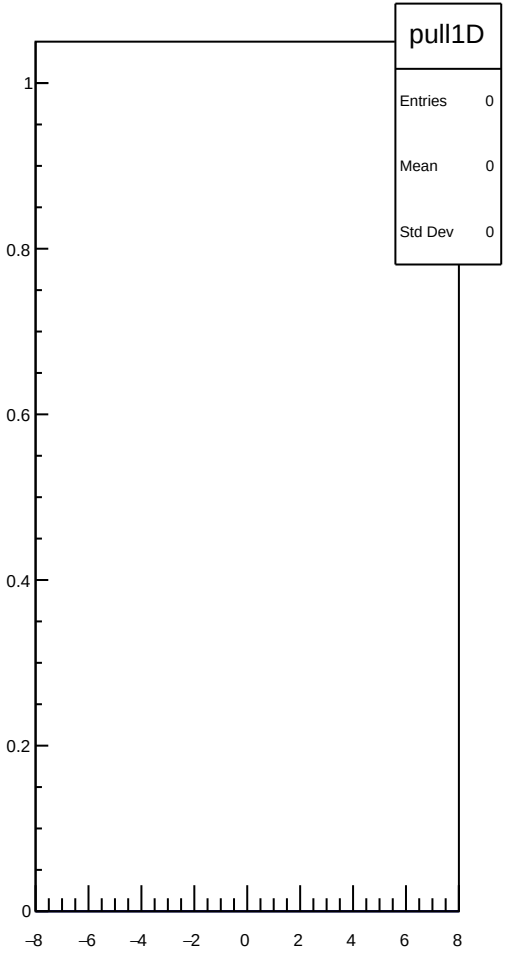
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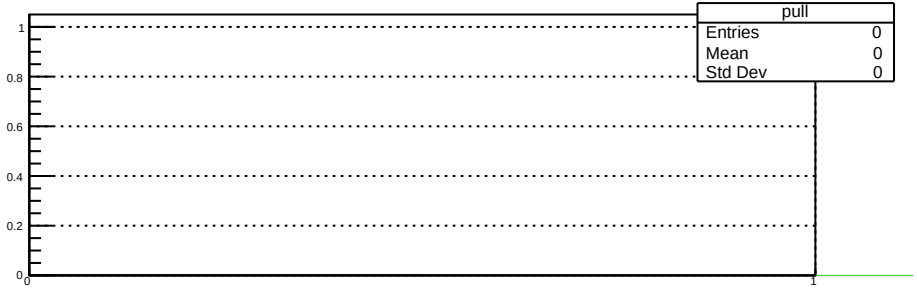
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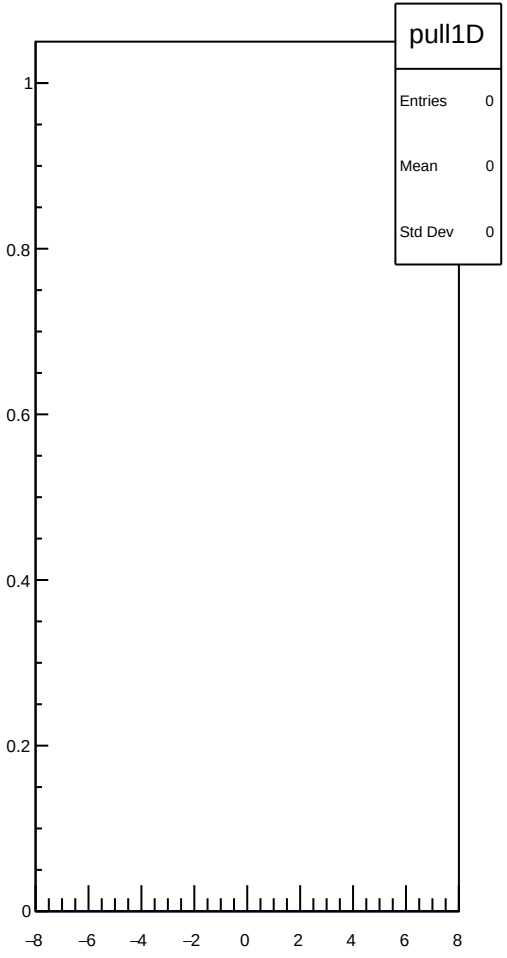
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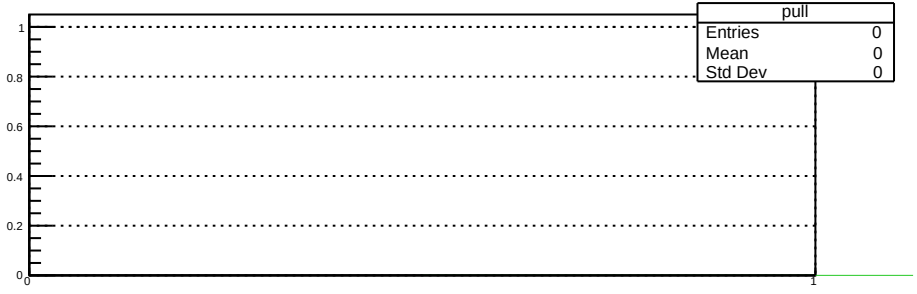
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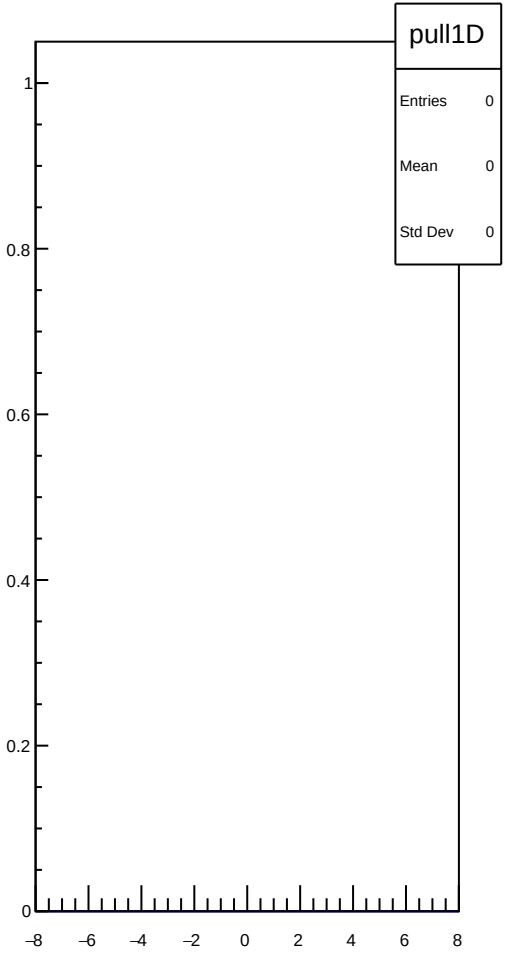
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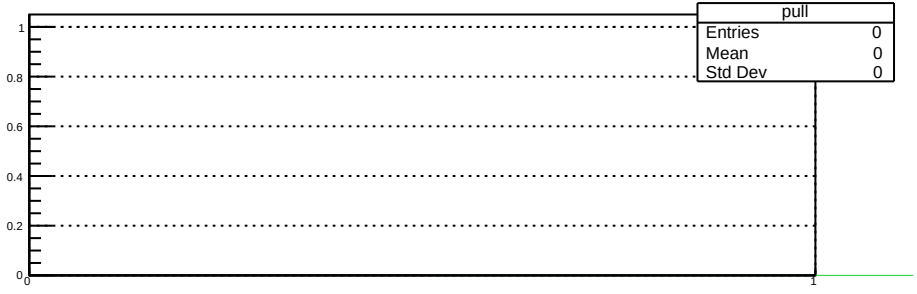
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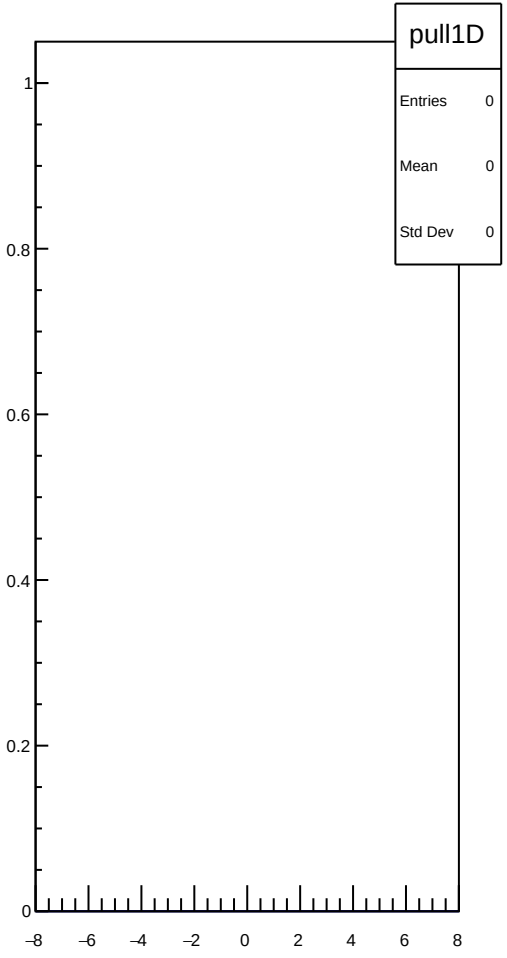
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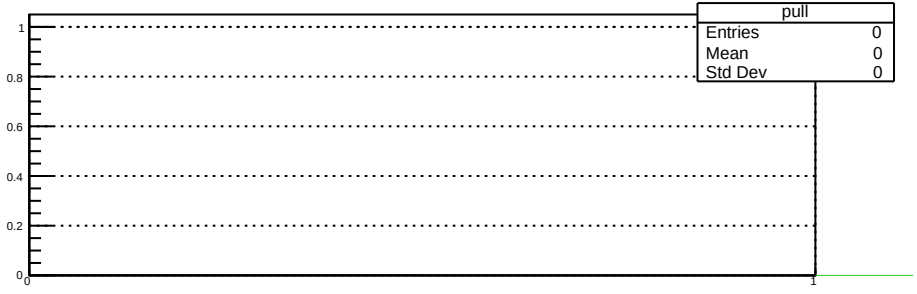
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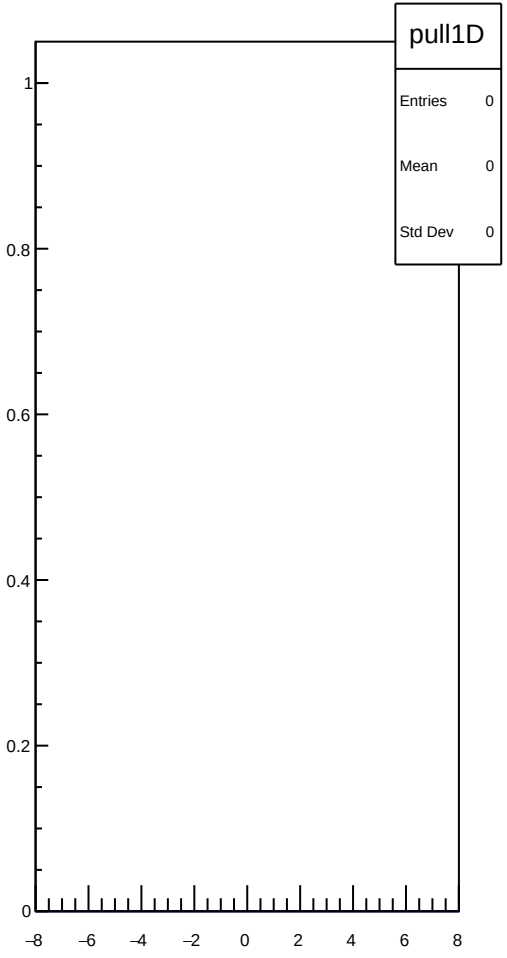
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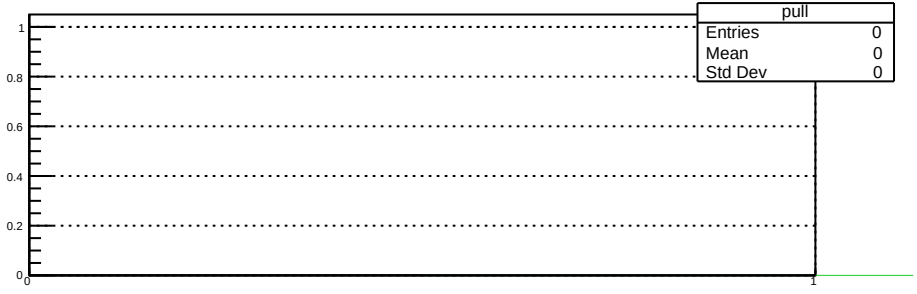
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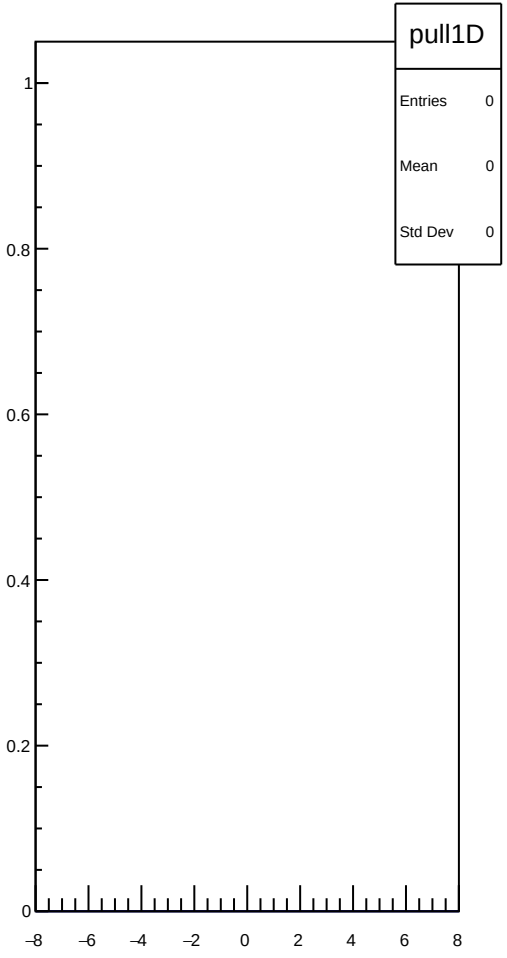
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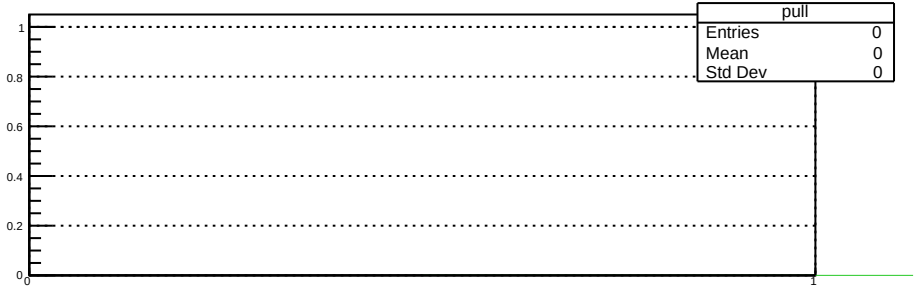
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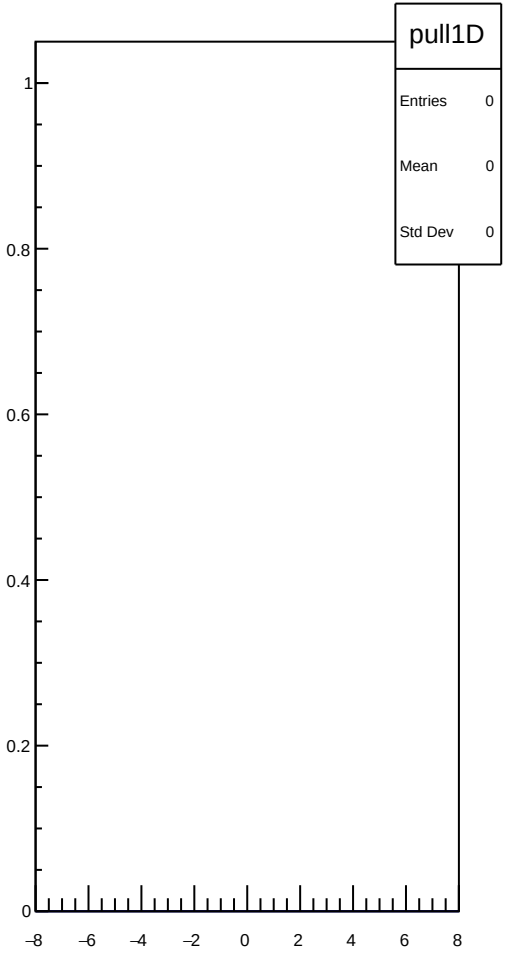
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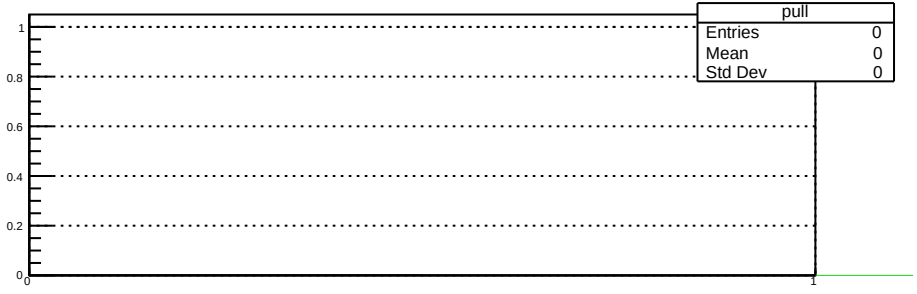
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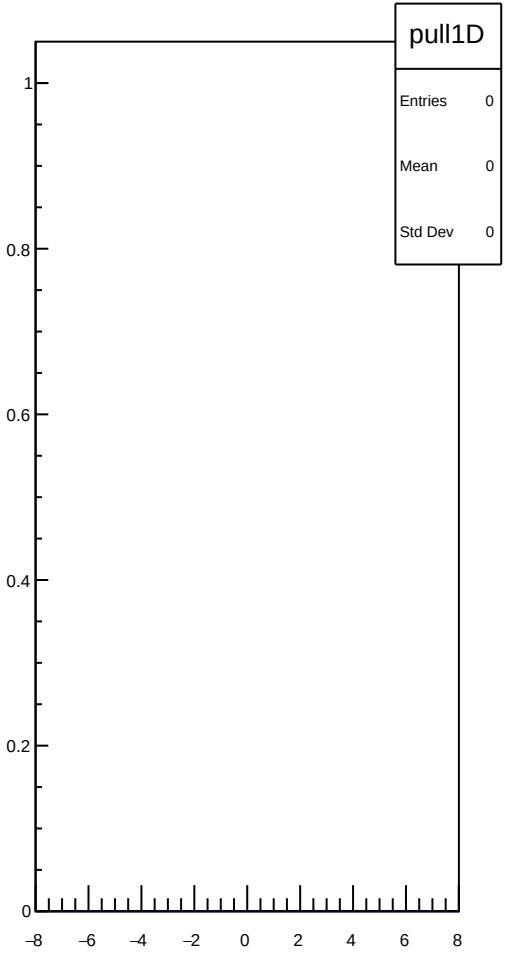
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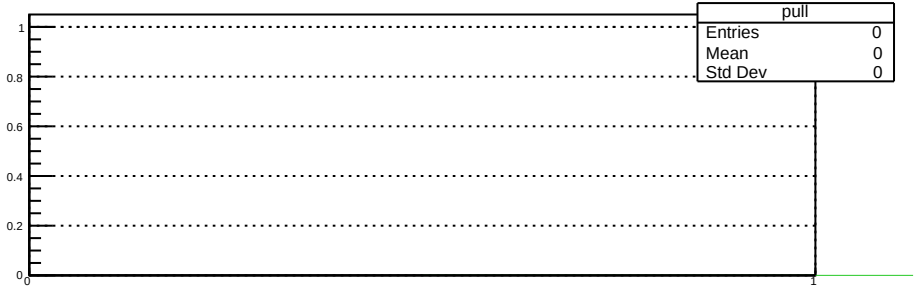
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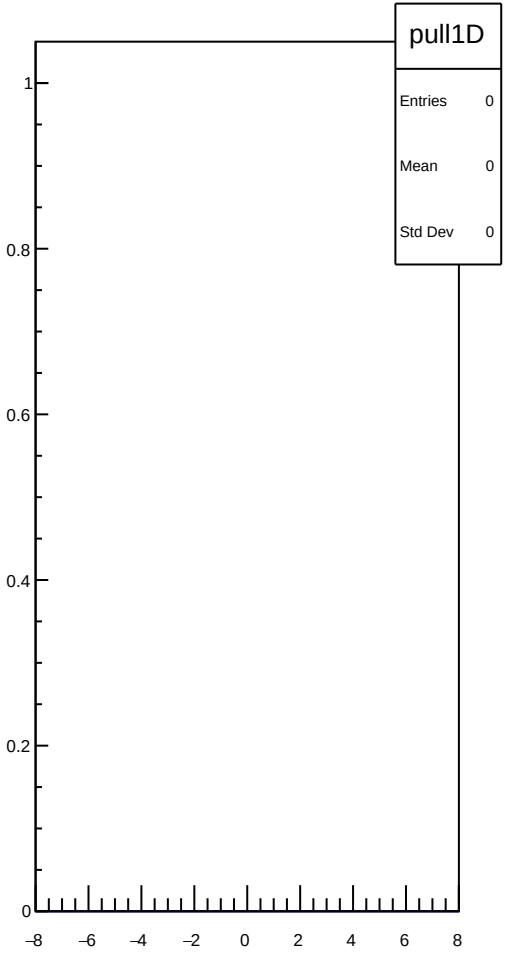
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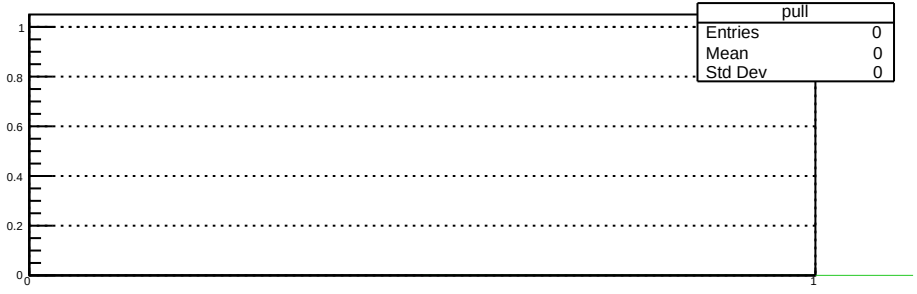
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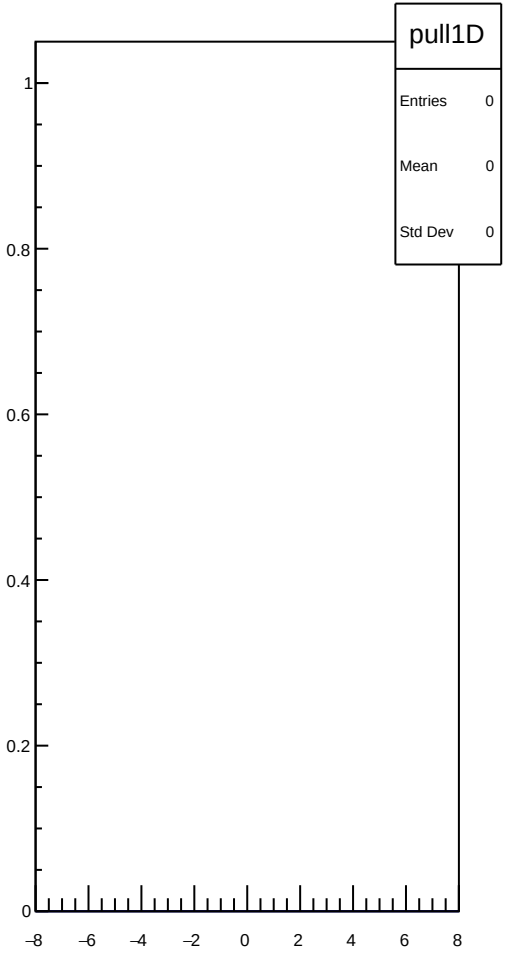
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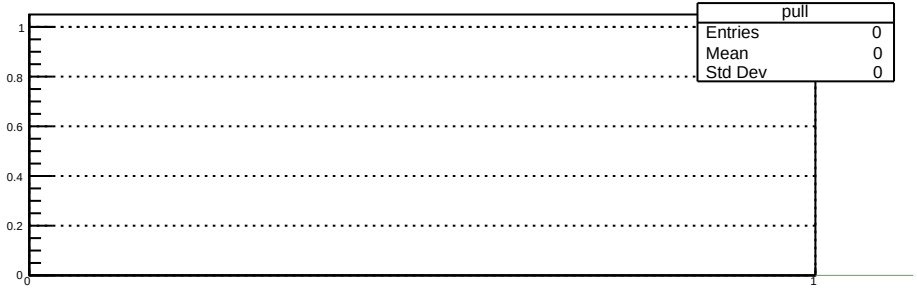
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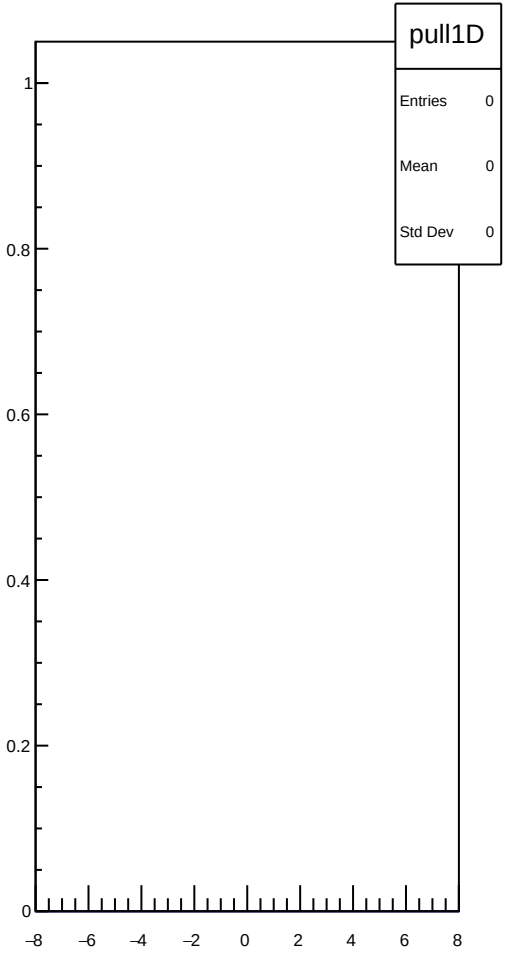
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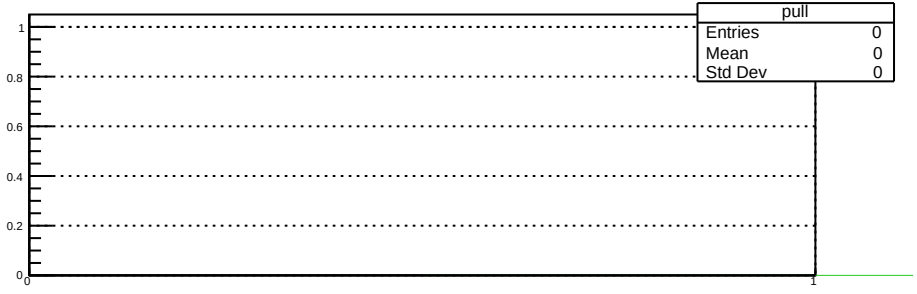
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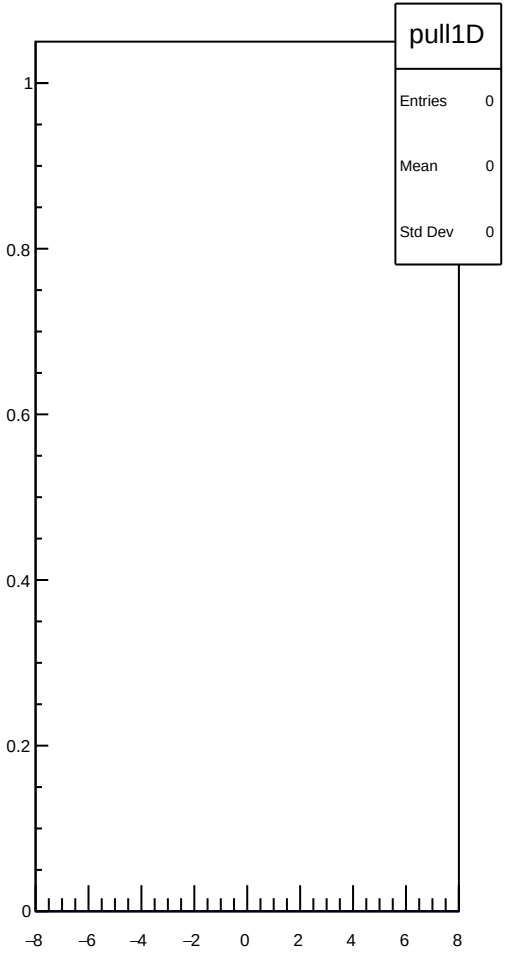
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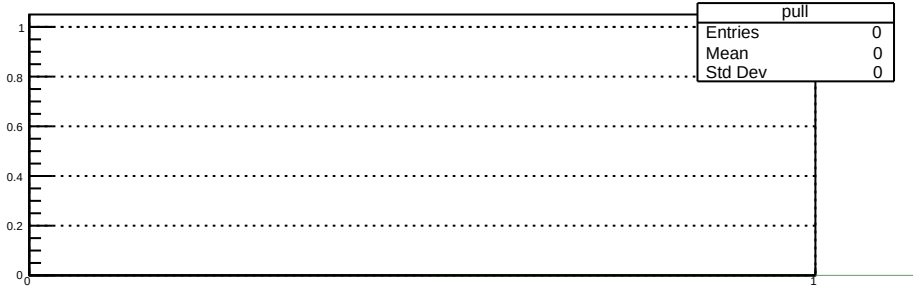
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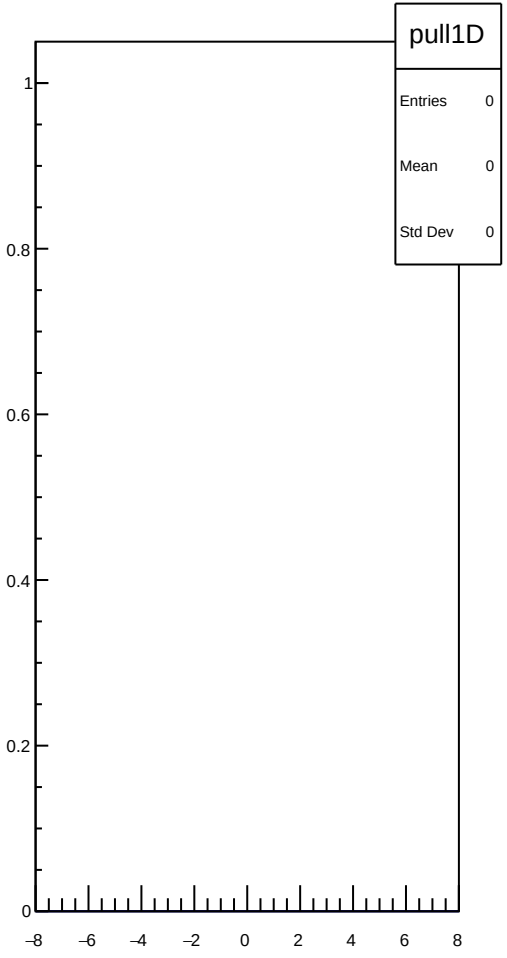
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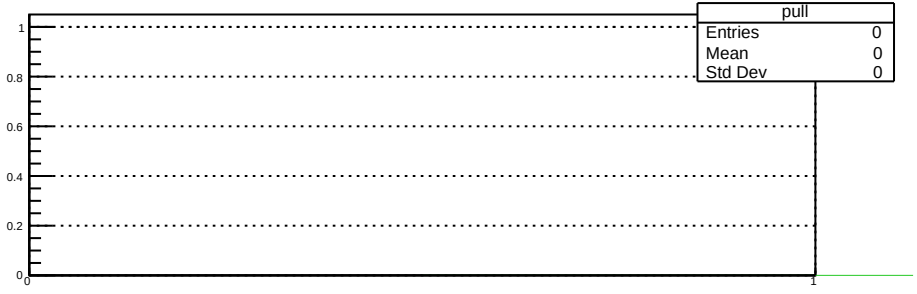
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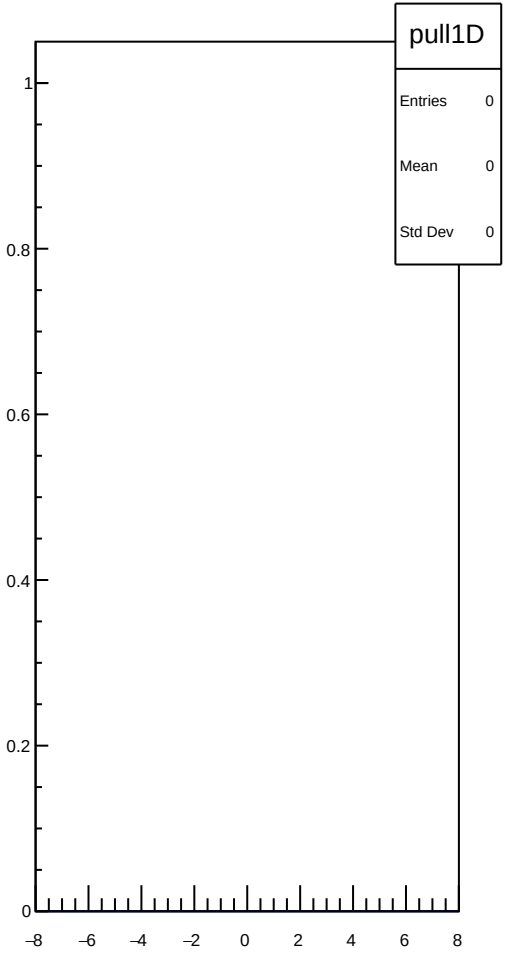
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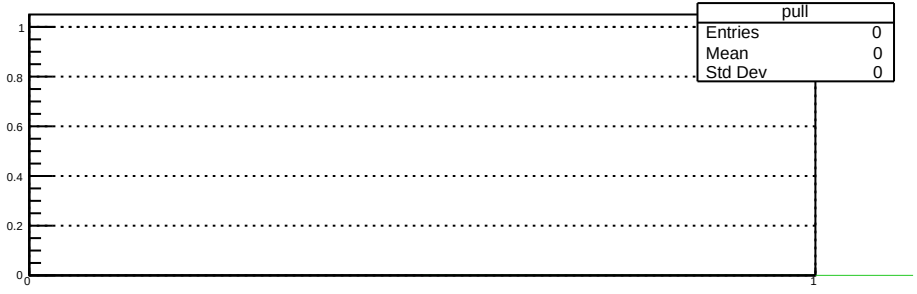
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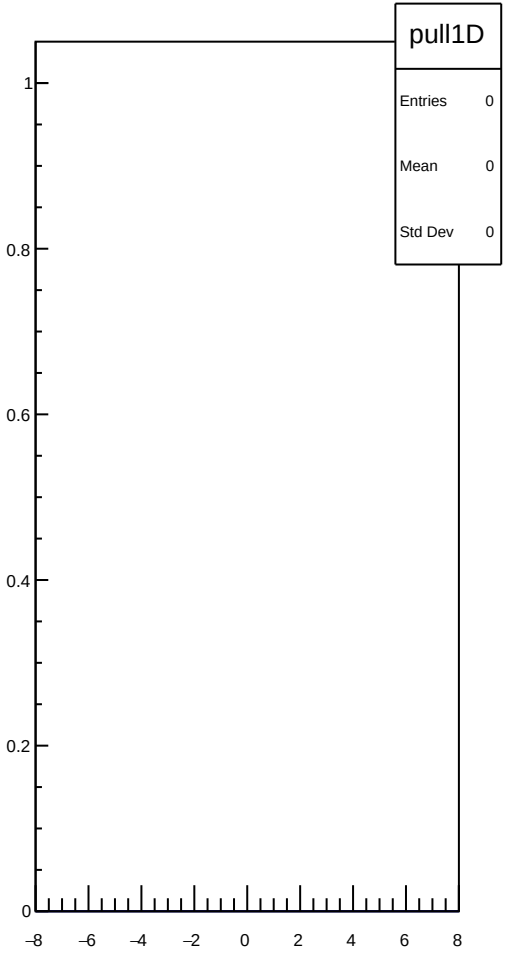
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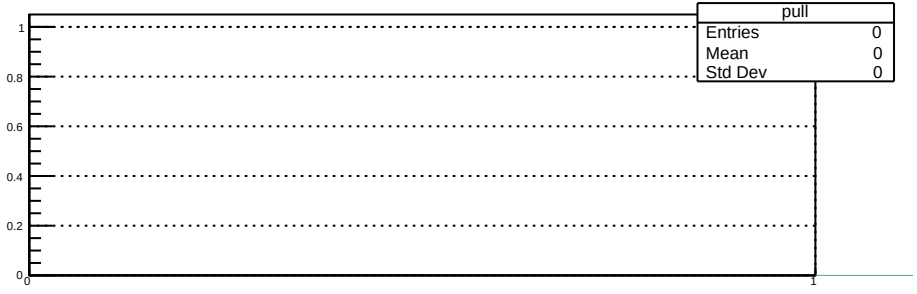
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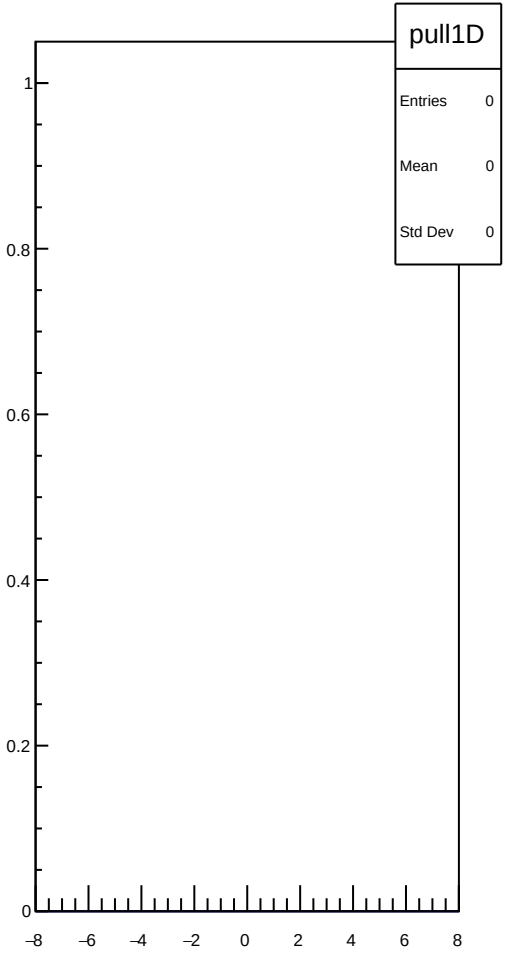
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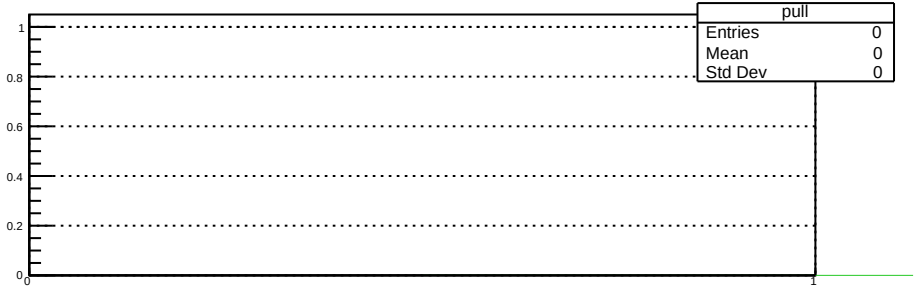
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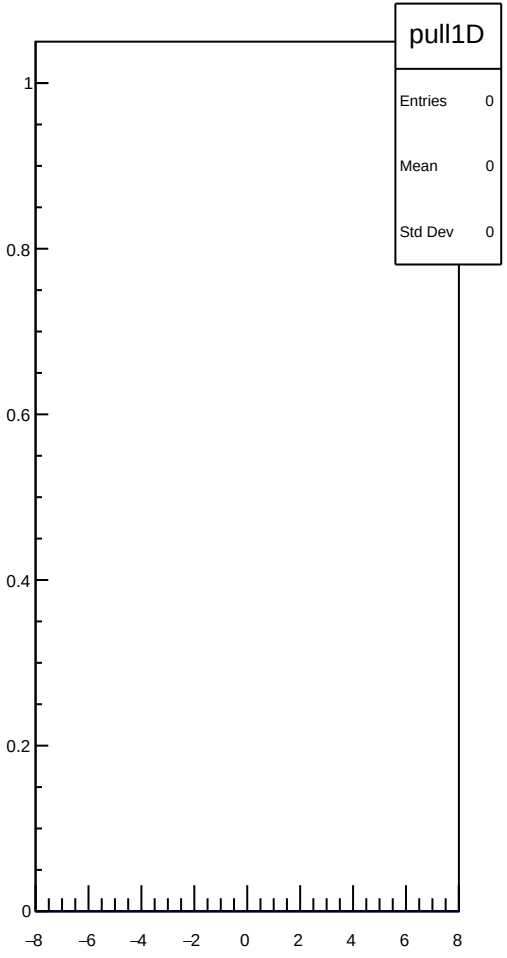
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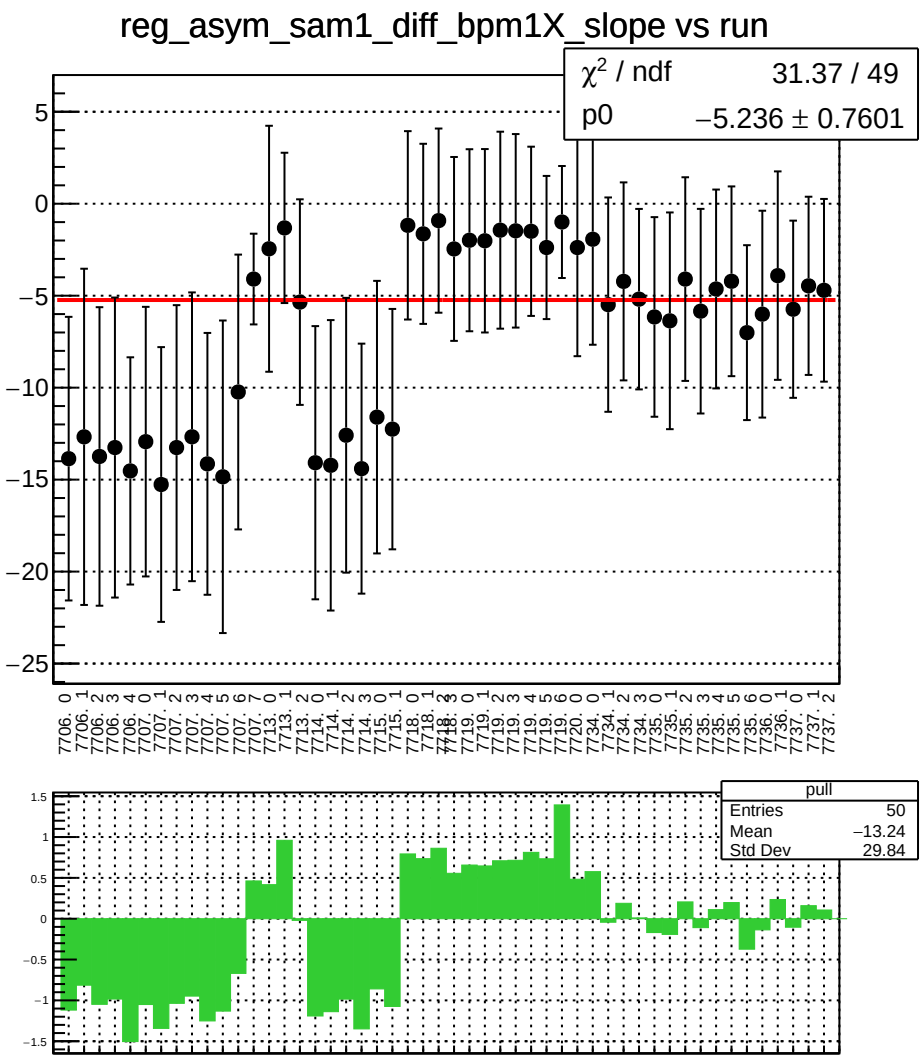
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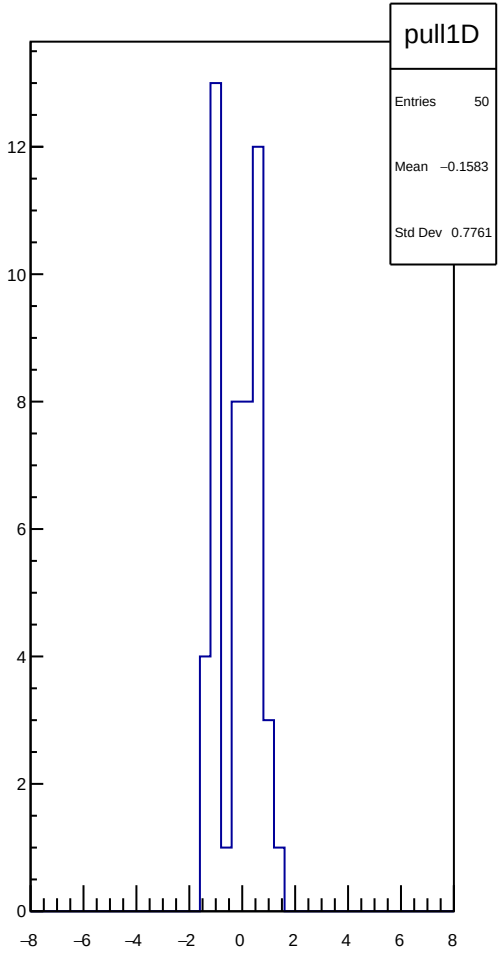
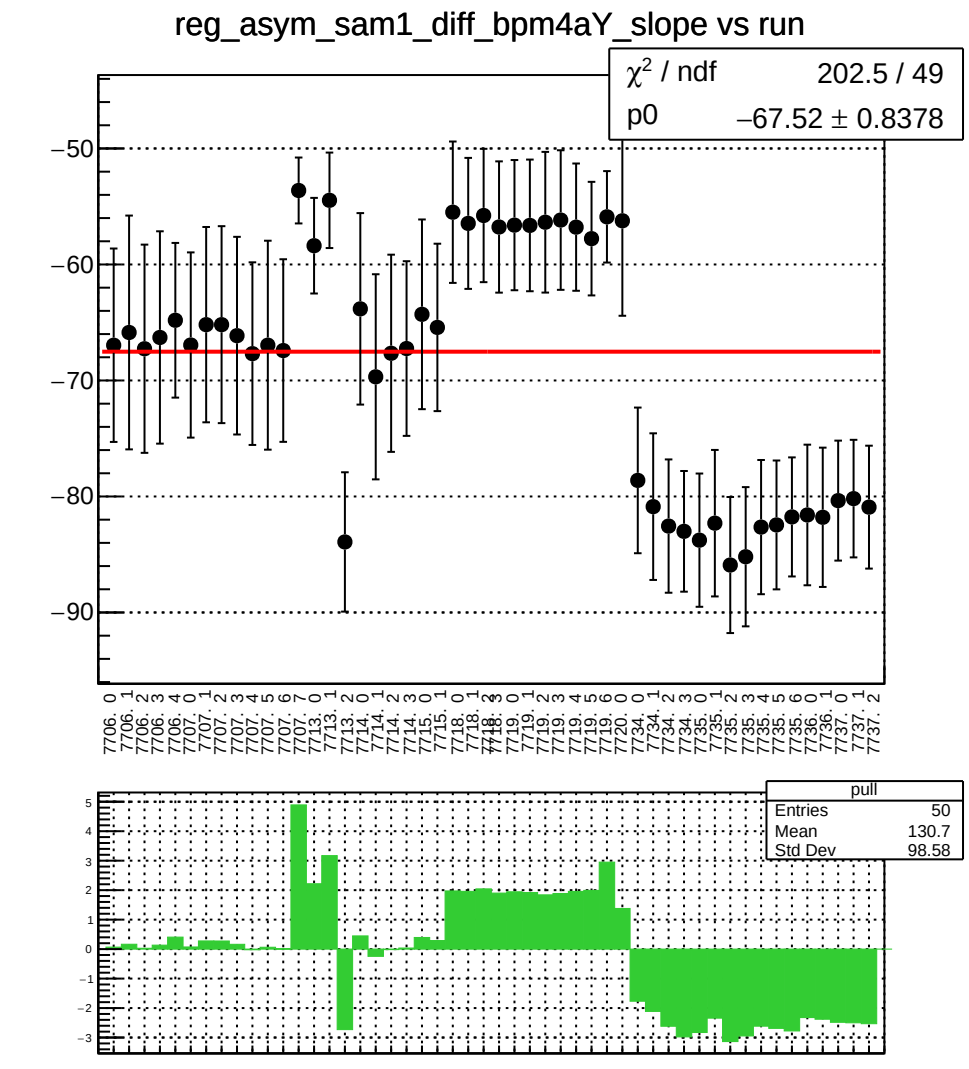
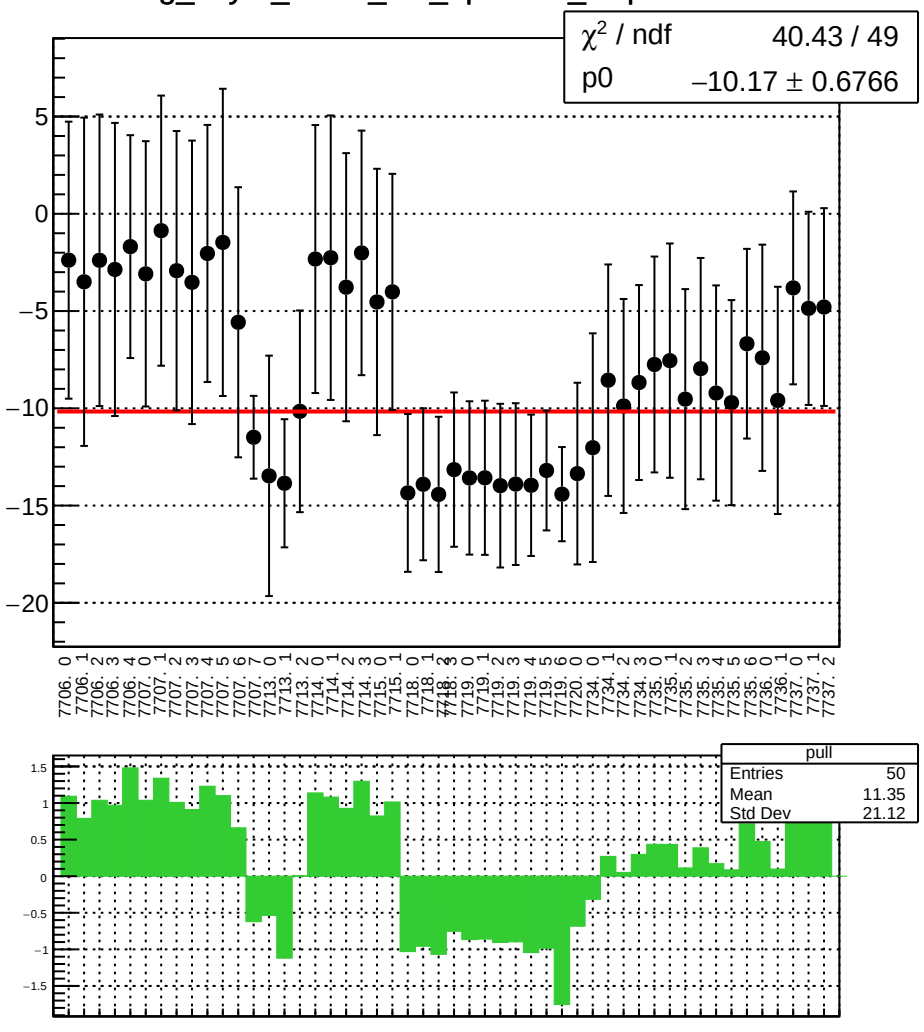
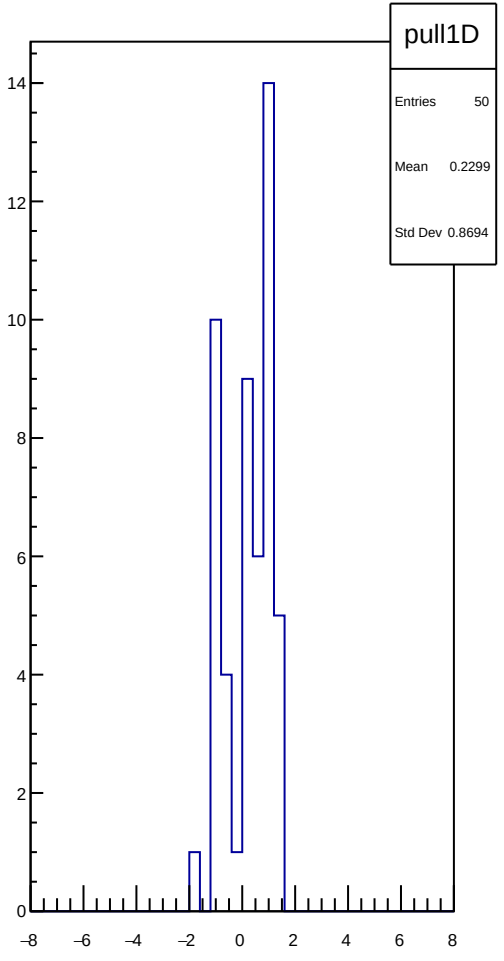
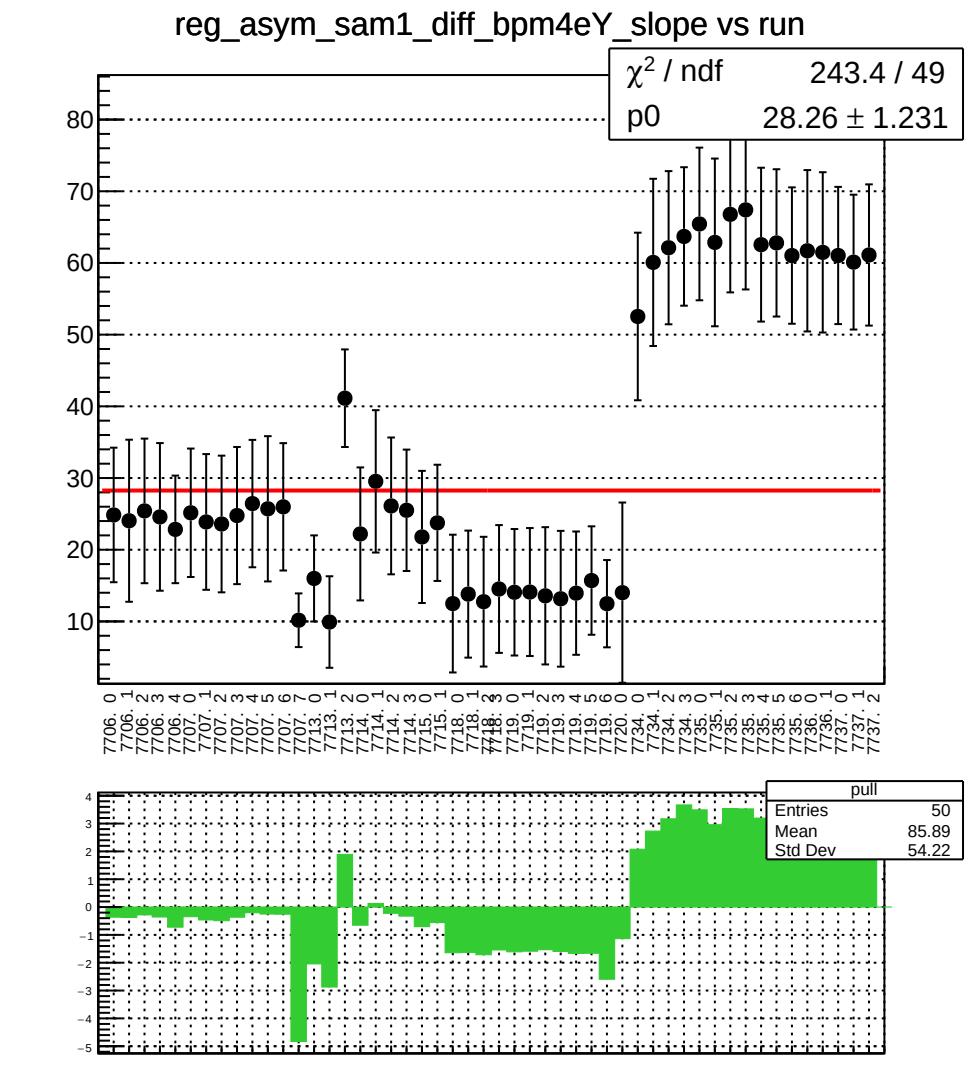
χ² / ndf 31.37 / 49
p0 −5.236 ± 0.7601
pull
Entries 50
Mean −13.24
Std Dev 29.84

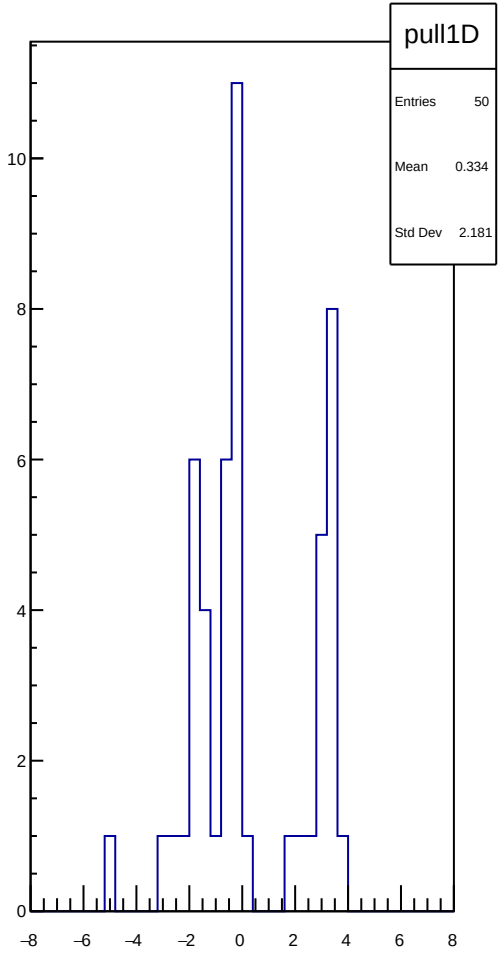

pull1D
Entries 50
Mean −0.1583
Std Dev 0.7761

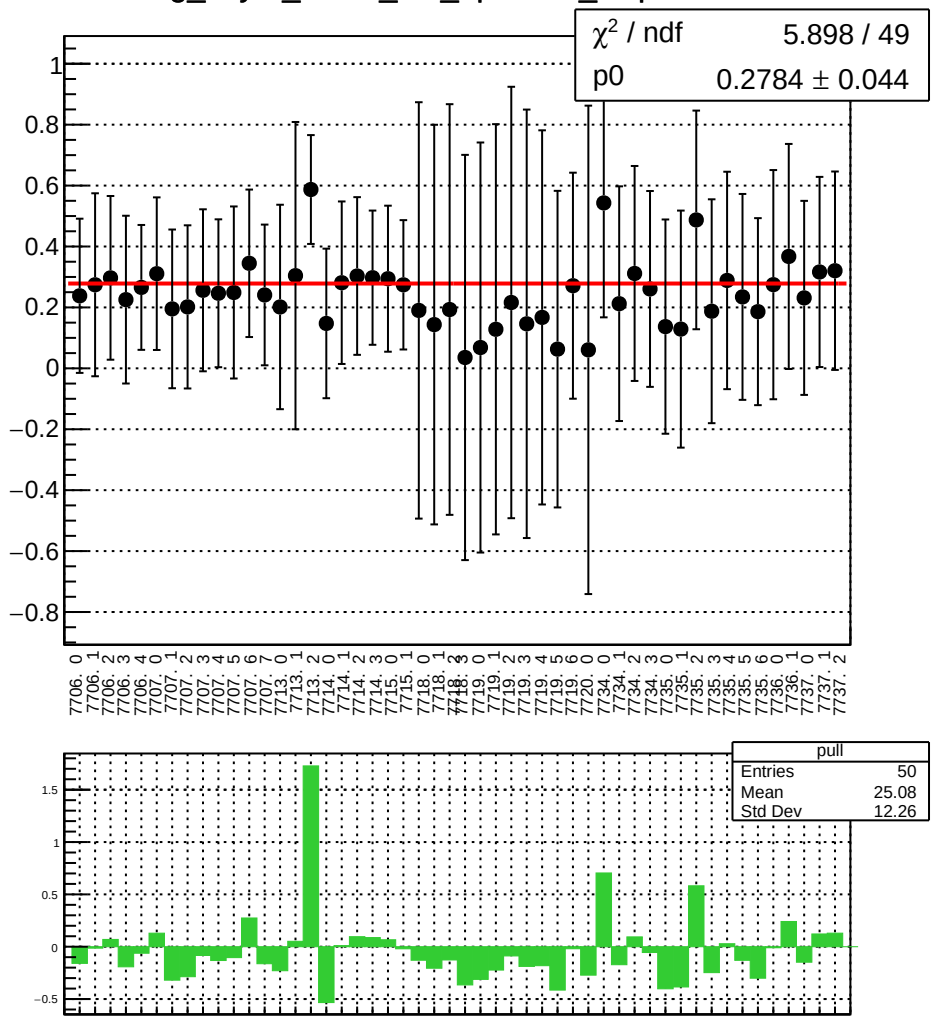

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 202.5 / 49
p0 −67.52 ± 0.8378
−50
−60
−70
−80
−90
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 130.7
Std Dev 98.58
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.1437
Std Dev 2.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

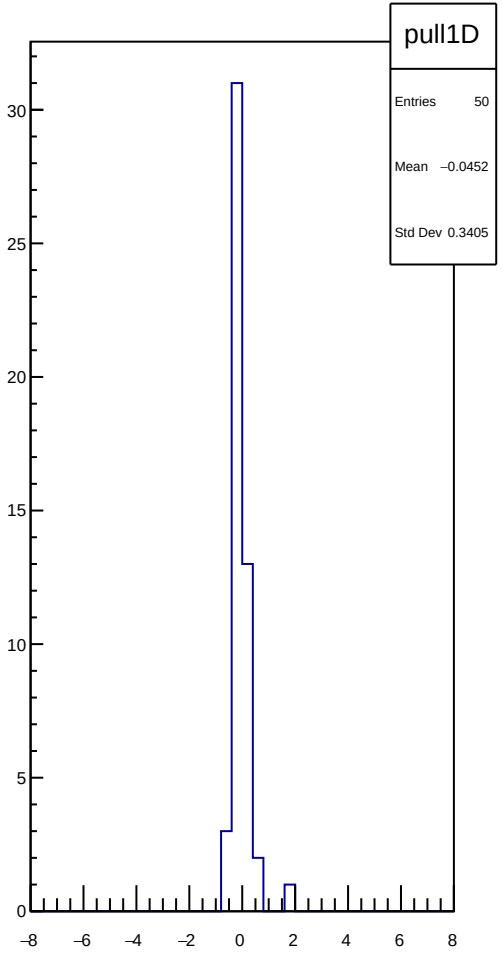

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 40.43 / 49
p0 −10.17 ± 0.6766
pull
Entries 50
Mean 11.35
Std Dev 21.12

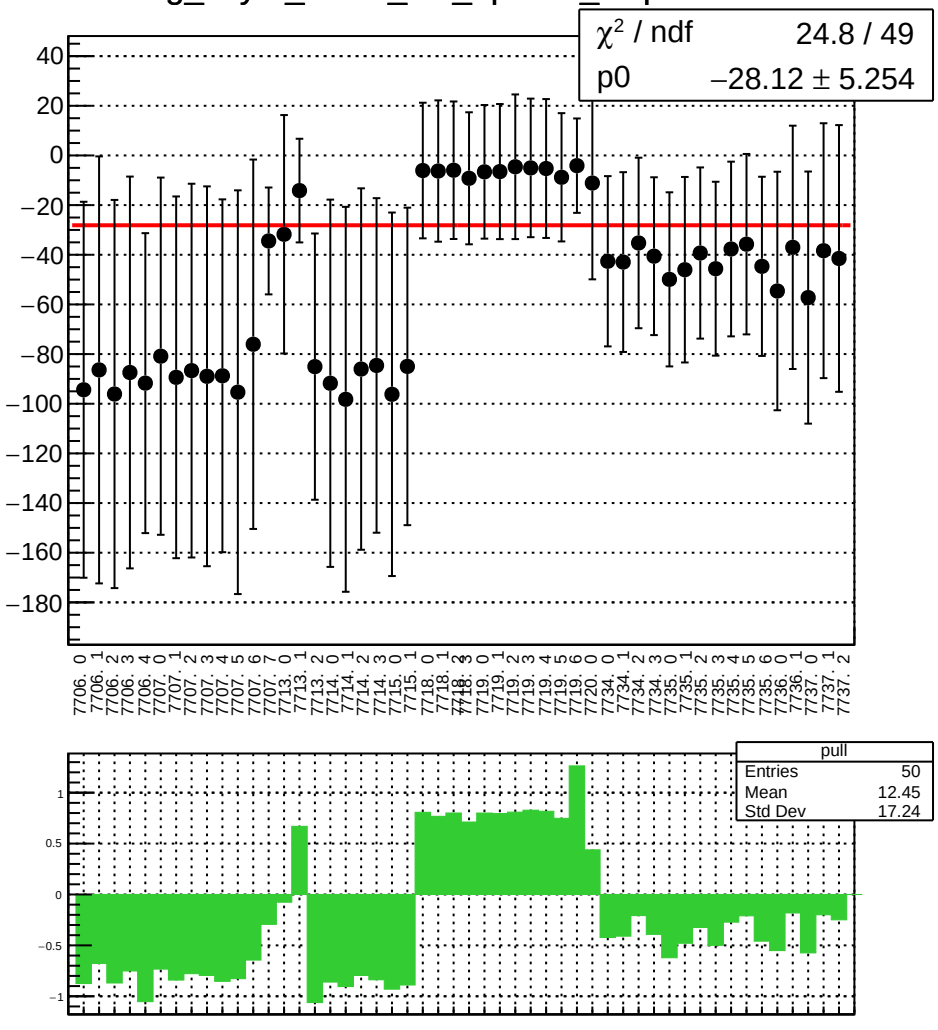

pull1D
Entries 50
Mean 0.2299
Std Dev 0.8694

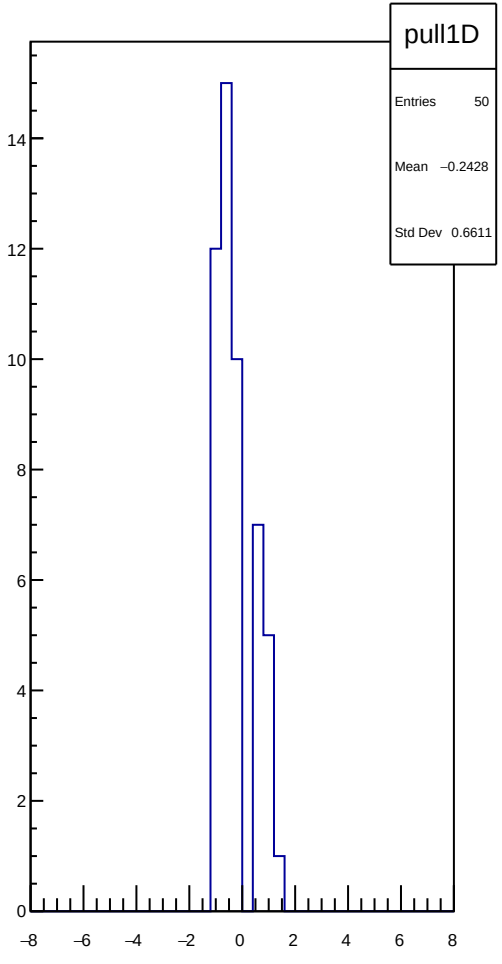

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 243.4 / 49
p0 28.26 ± 1.231
pull
Entries 50
Mean 85.89
Std Dev 54.22

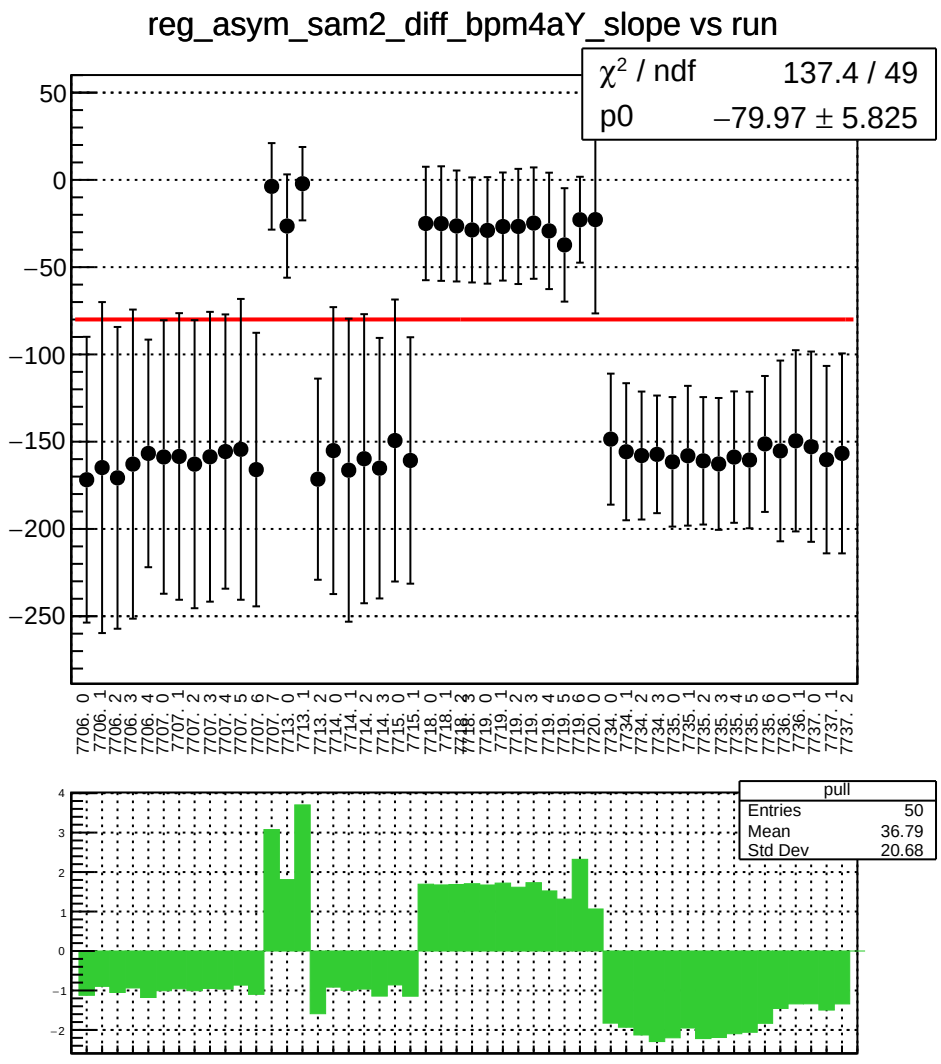

pull1D
Entries 50
Mean 0.334
Std Dev 2.181

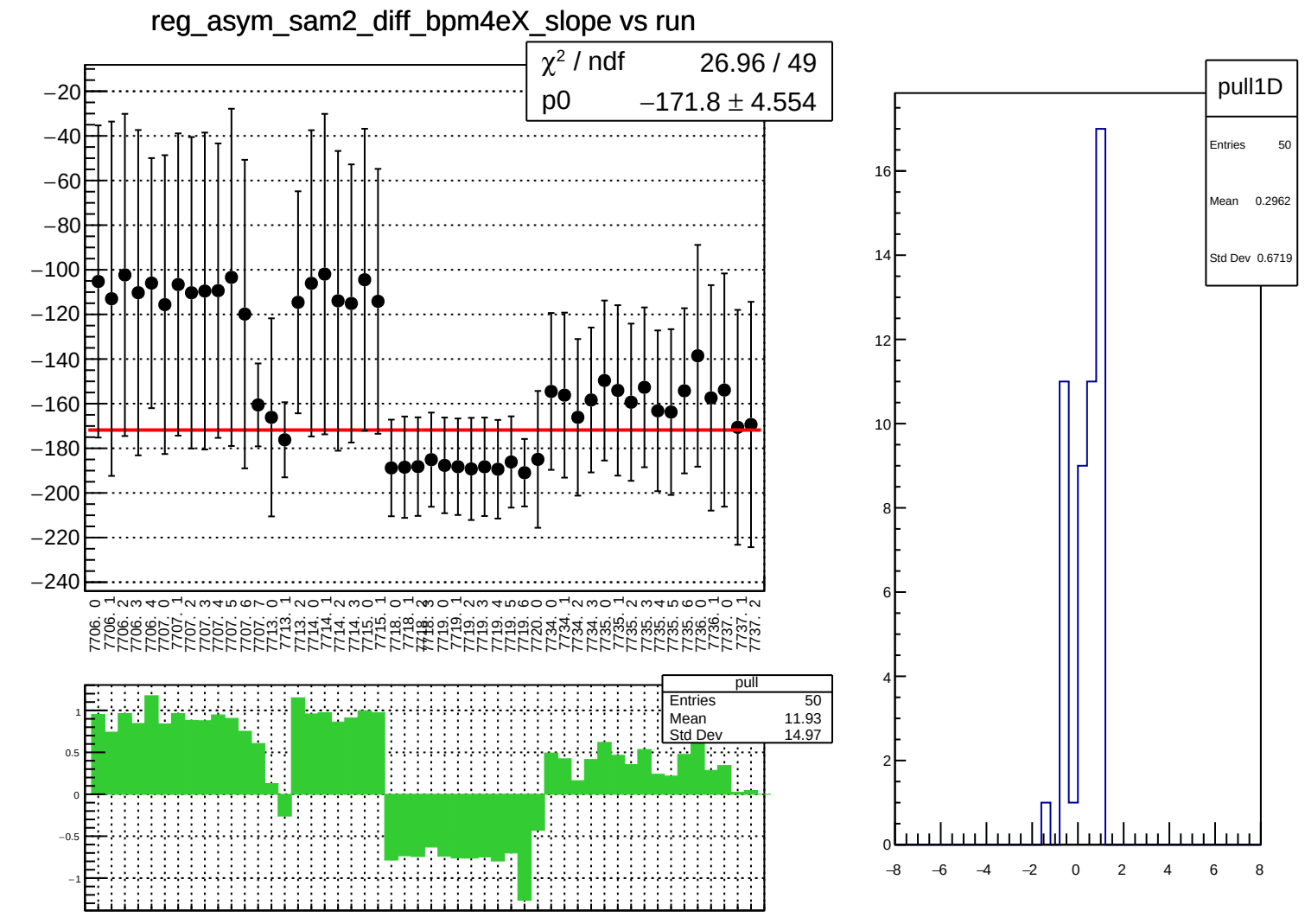

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 5.898 / 49
p0 0.2784 ± 0.044
pull
Entries 50
Mean 25.08
Std Dev 12.26

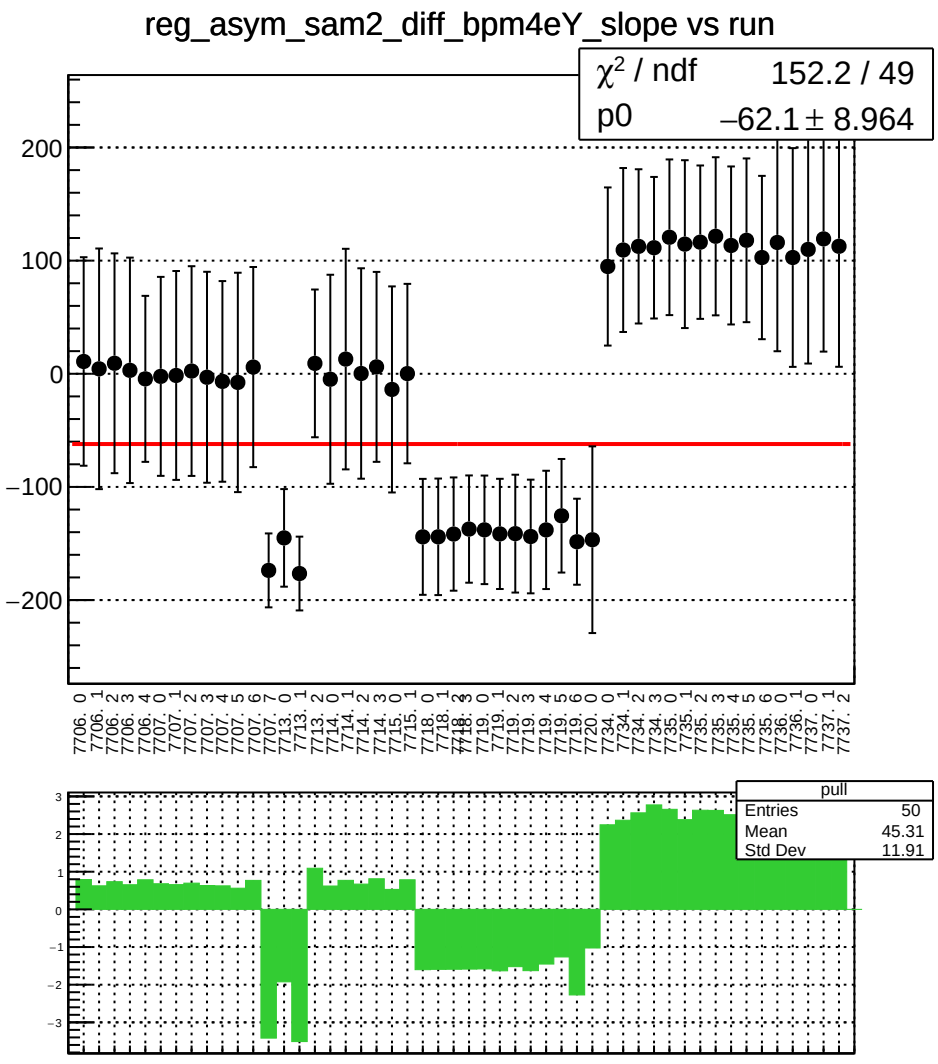

pull1D
Entries 50
Mean −0.0452
Std Dev 0.3405

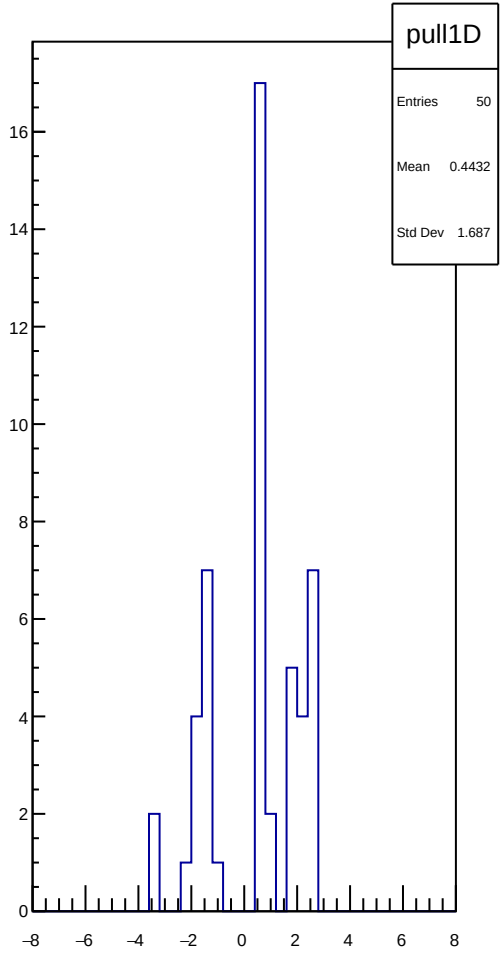

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 24.8 / 49
p0 −28.12 ± 5.254
pull
Entries 50
Mean 12.45
Std Dev 17.24

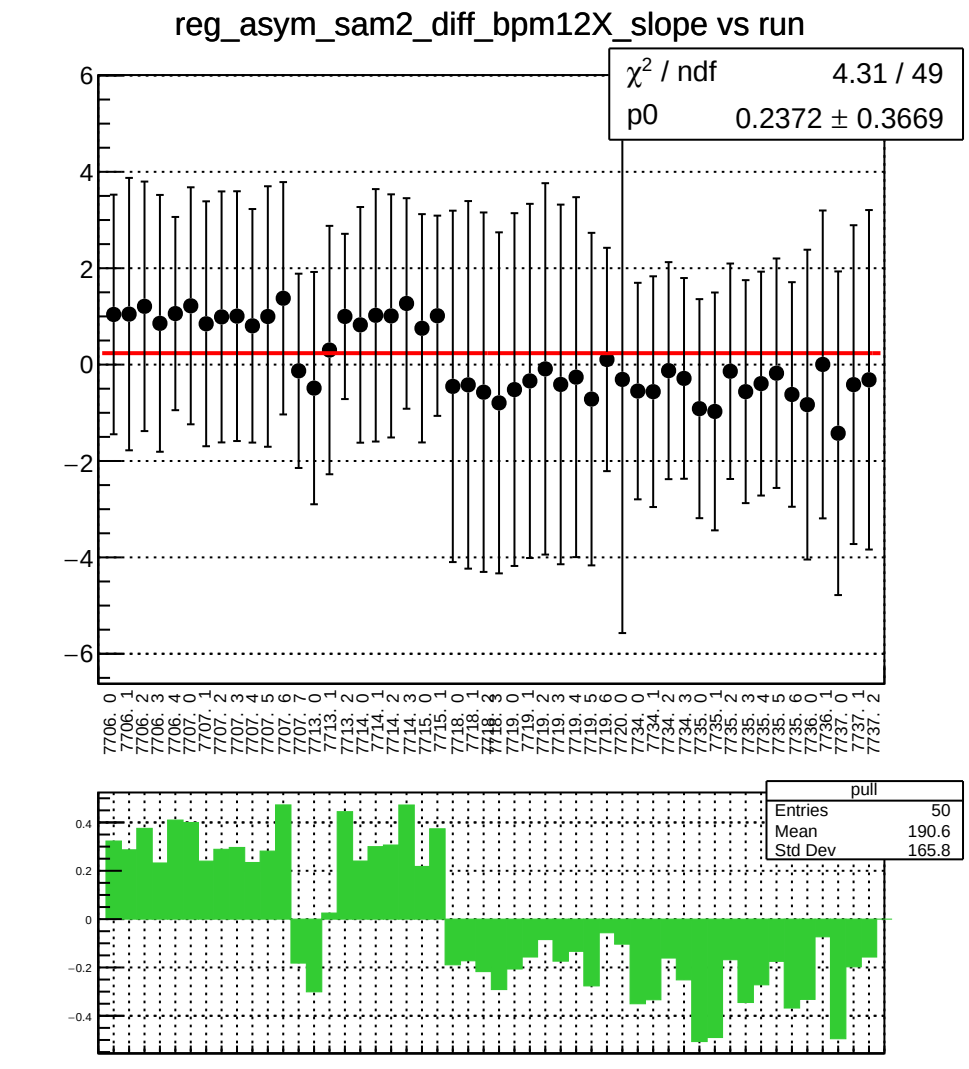

pull1D
Entries 50
Mean −0.2428
Std Dev 0.6611

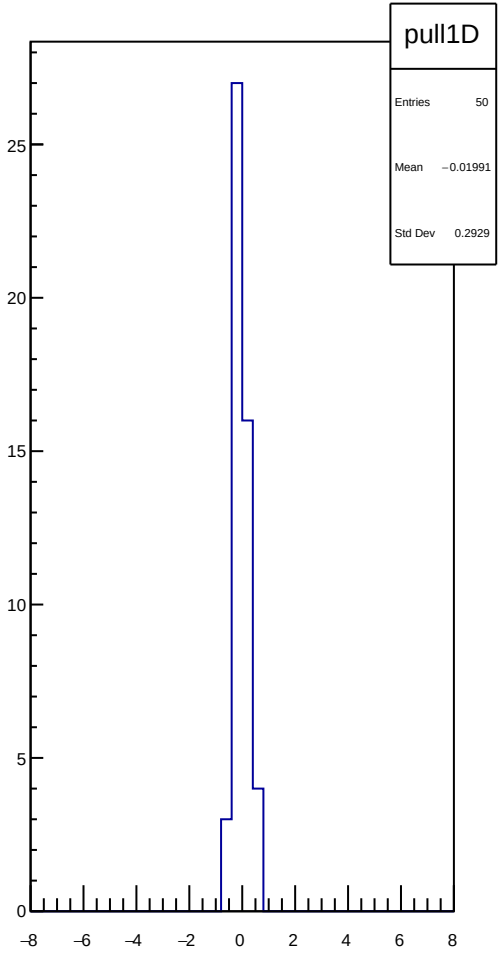

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 137.4 / 49
p0 −79.97 ± 5.825
50
0
−50
−100
−150
−200
−250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 36.79
Std Dev 20.68
4
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.4202
Std Dev 1.604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

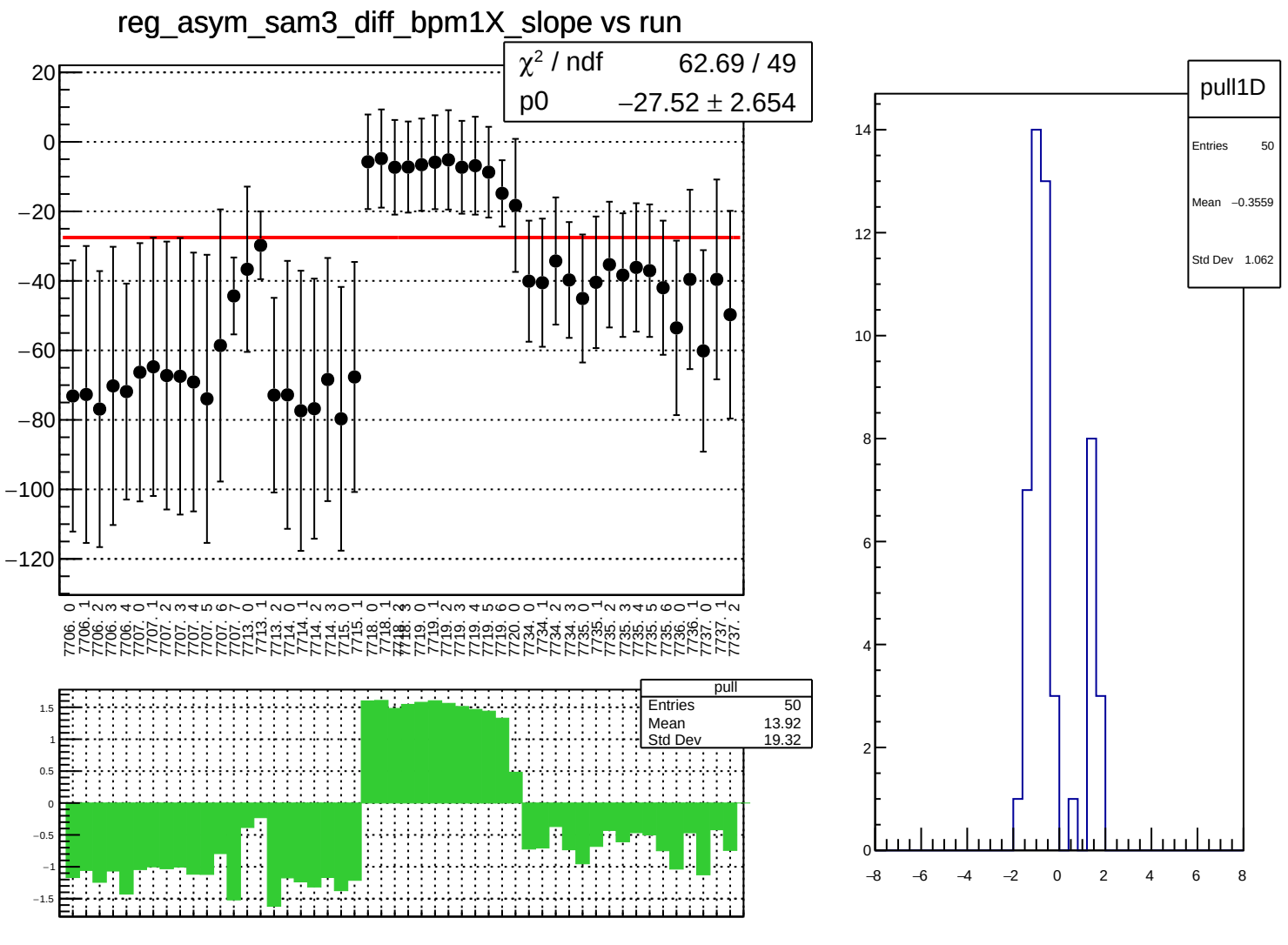

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 26.96 / 49
p0 −171.8 ± 4.554
pull
Entries 50
Mean 11.93
Std Dev 14.97
pull1D
Entries 50
Mean 0.2962
Std Dev 0.6719

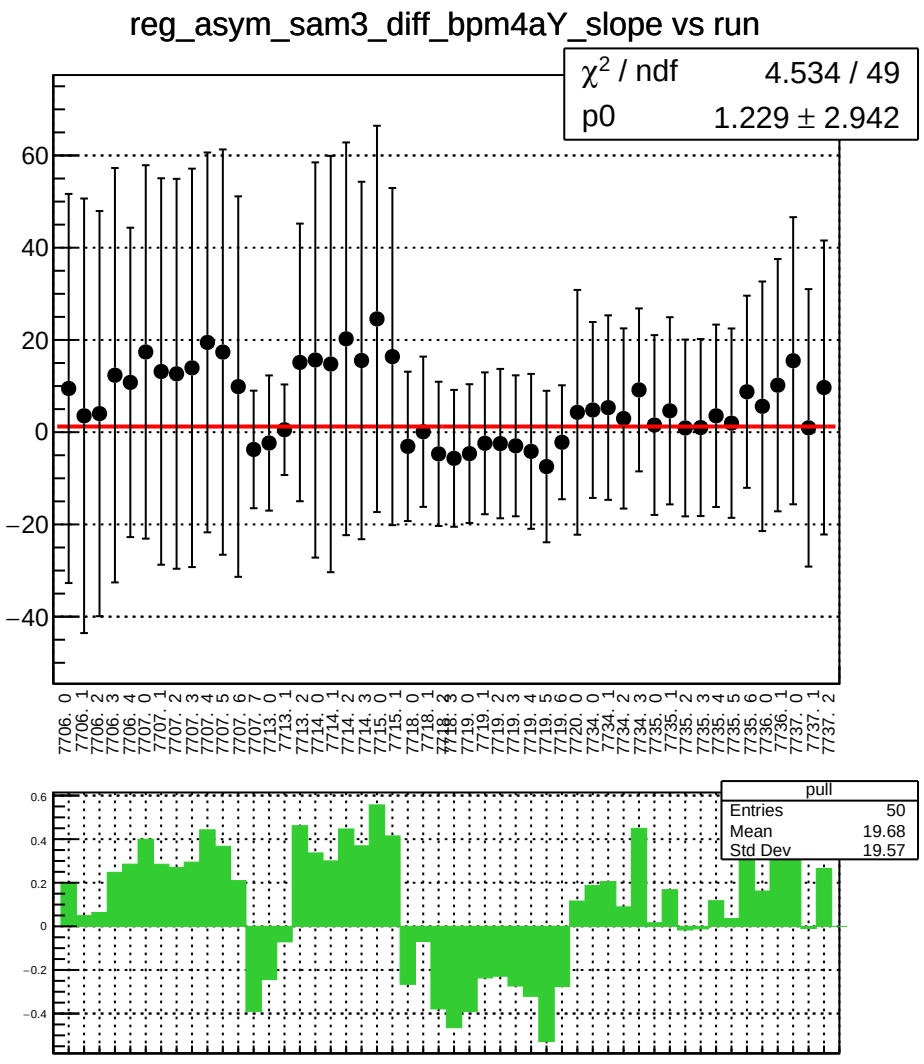

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 152.2 / 49
p0 −62.1 ± 8.964
200
100
0
−100
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 45.31
Std Dev 11.91
3
2
1
0
−1
−2
−3

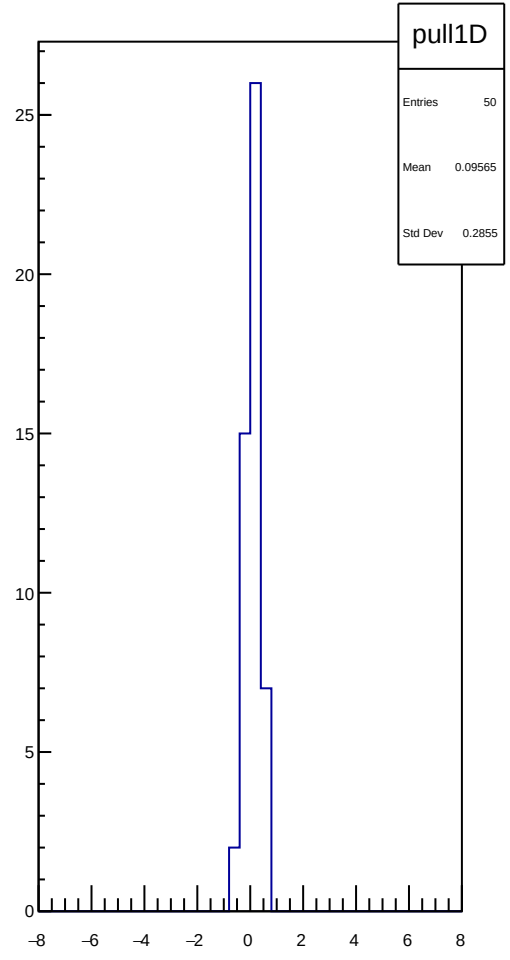

pull1D
Entries 50
Mean 0.4432
Std Dev 1.687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

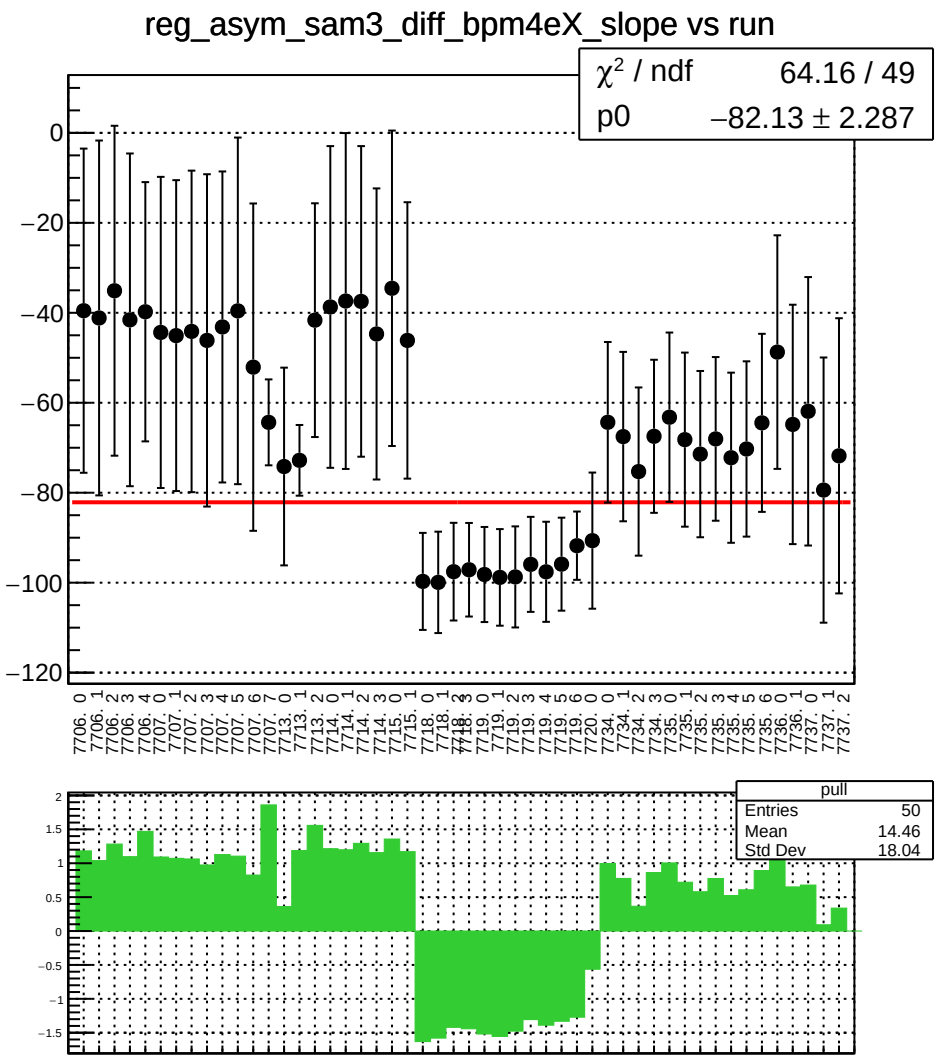

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.31 / 49
p0 0.2372 ± 0.3669
pull
Entries 50
Mean 190.6
Std Dev 165.8

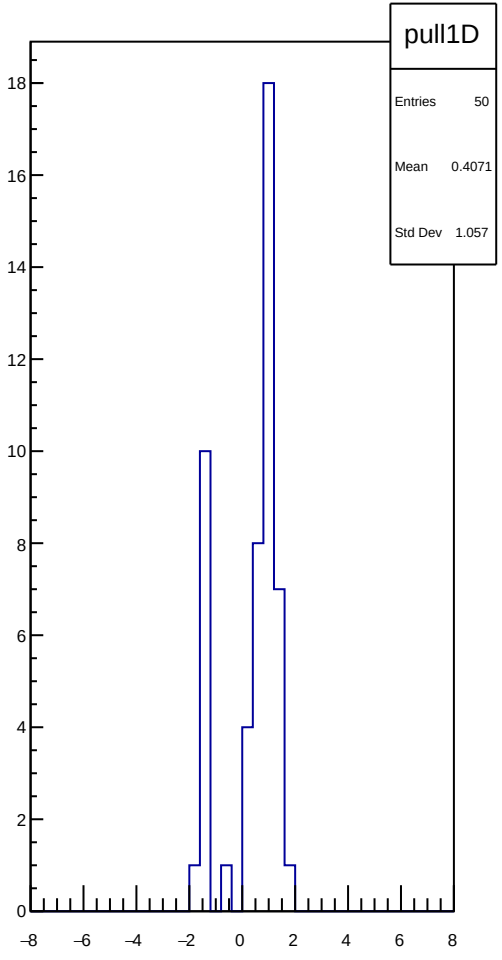

pull1D
Entries 50
Mean −0.01991
Std Dev 0.2929

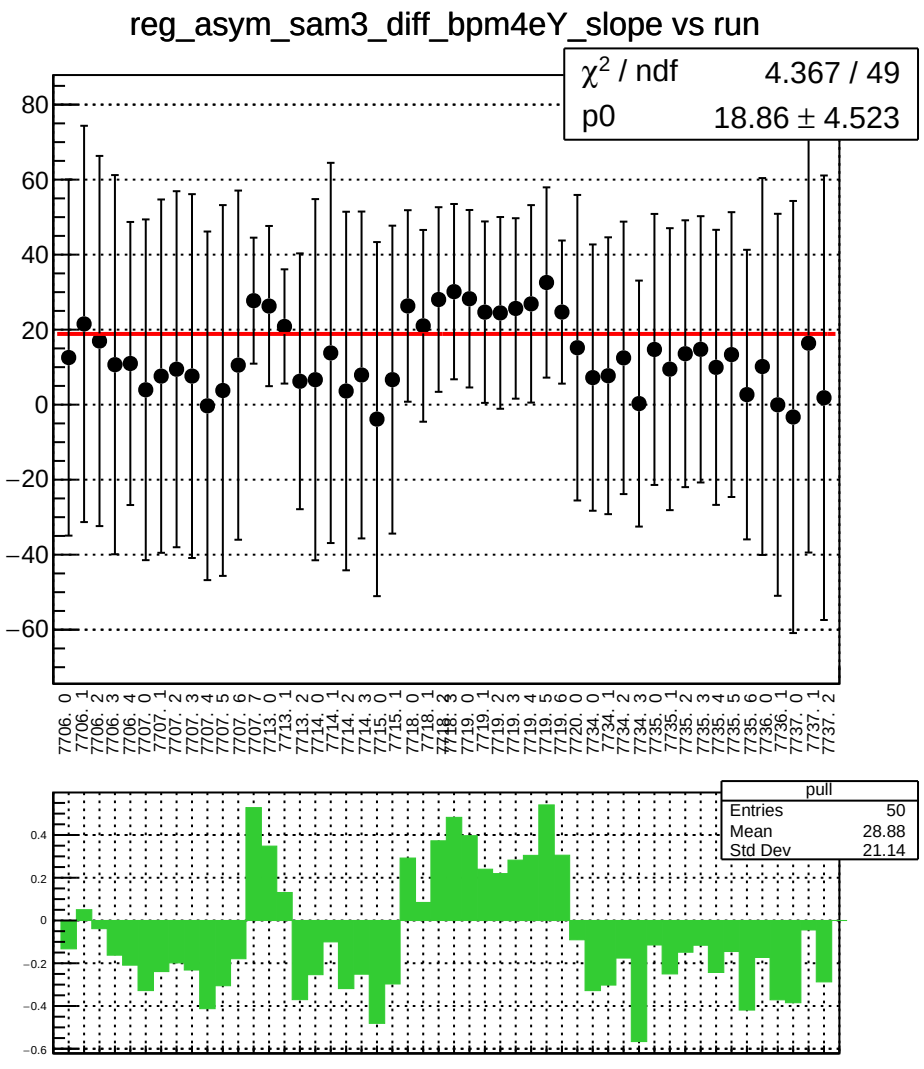

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 62.69 / 49
p0 −27.52 ± 2.654
pull
Entries 50
Mean 13.92
Std Dev 19.32
pull1D
Entries 50
Mean −0.3559
Std Dev 1.062

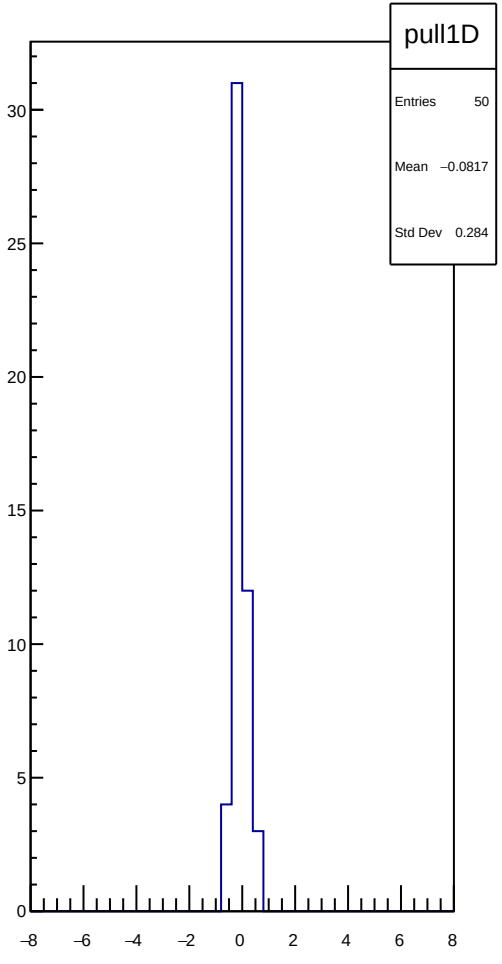

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.534 / 49
p0 1.229 ± 2.942
pull
Entries 50
Mean 19.68
Std Dev 19.57

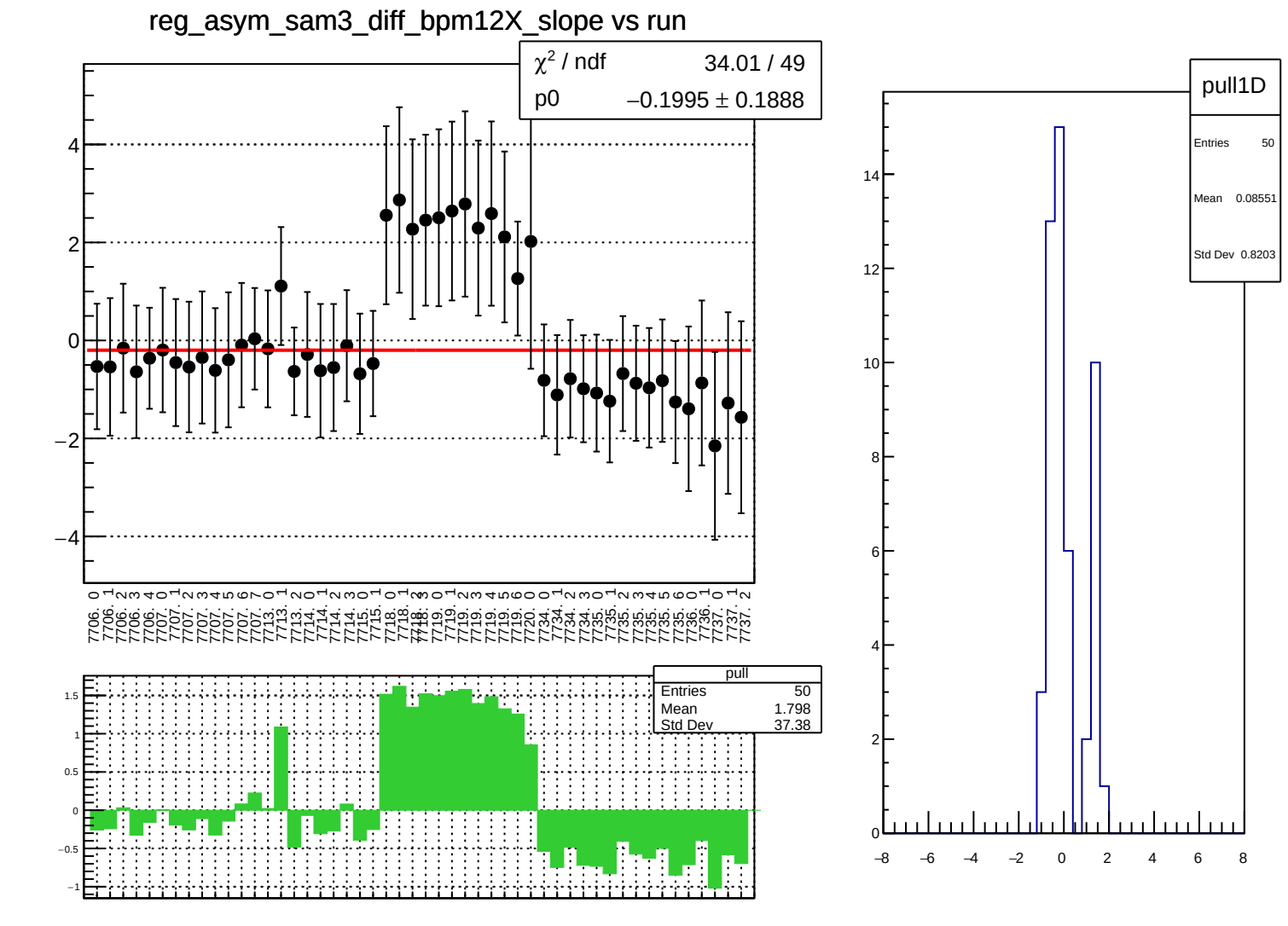

pull1D
Entries 50
Mean 0.09565
Std Dev 0.2855

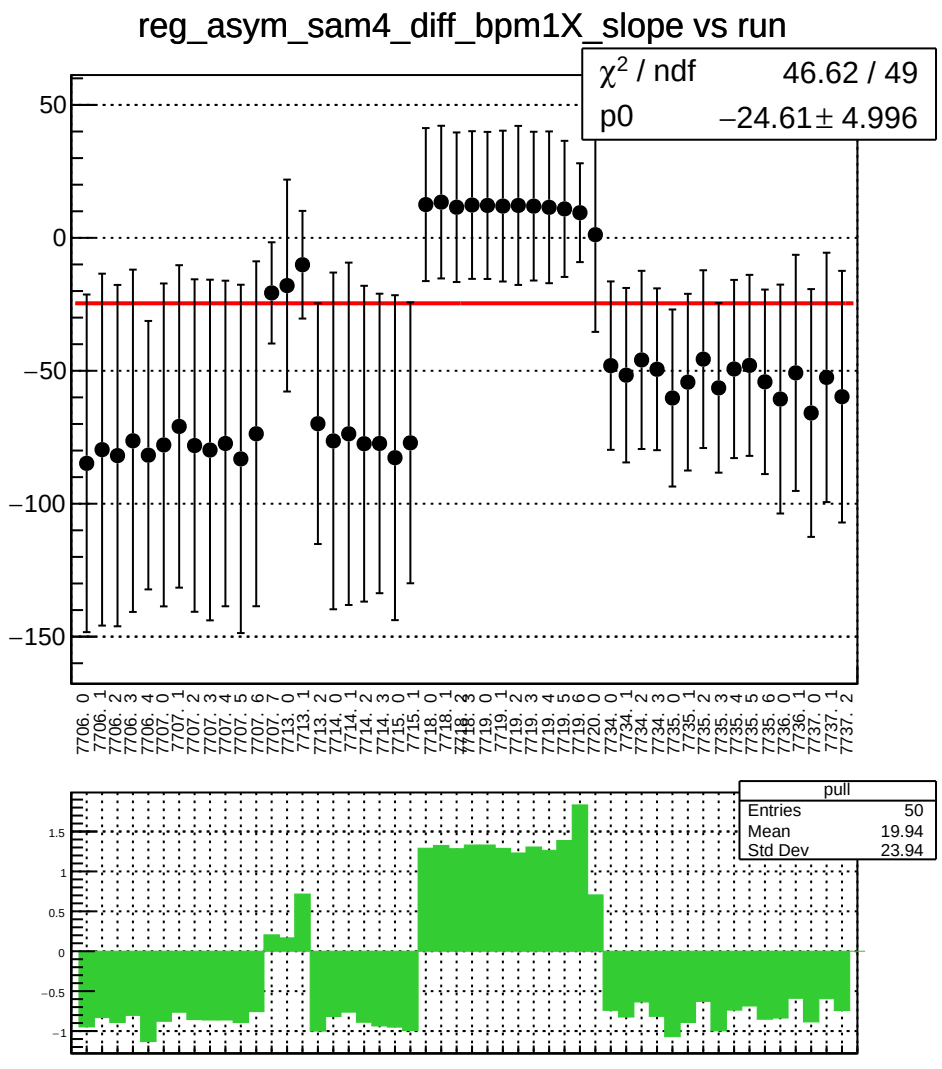

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 64.16 / 49
p0 −82.13 ± 2.287
pull
Entries 50
Mean 14.46
Std Dev 18.04

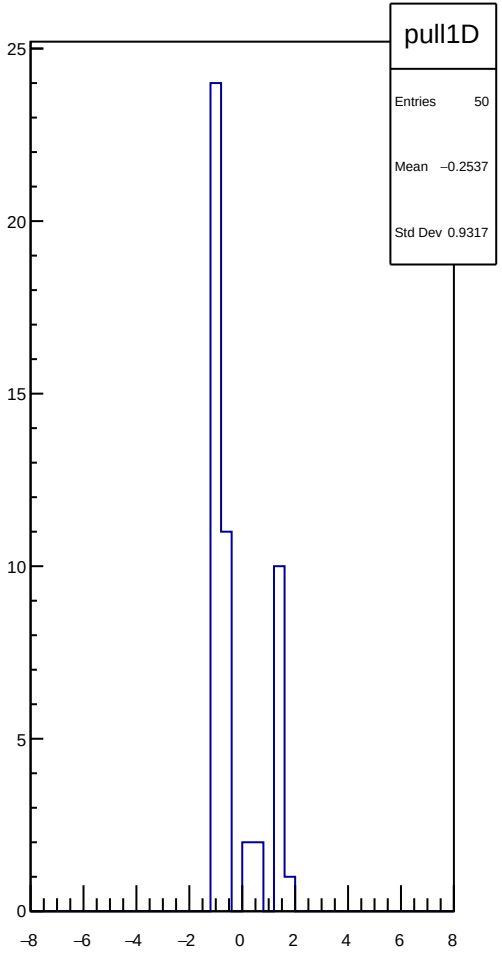

pull1D
Entries 50
Mean 0.4071
Std Dev 1.057

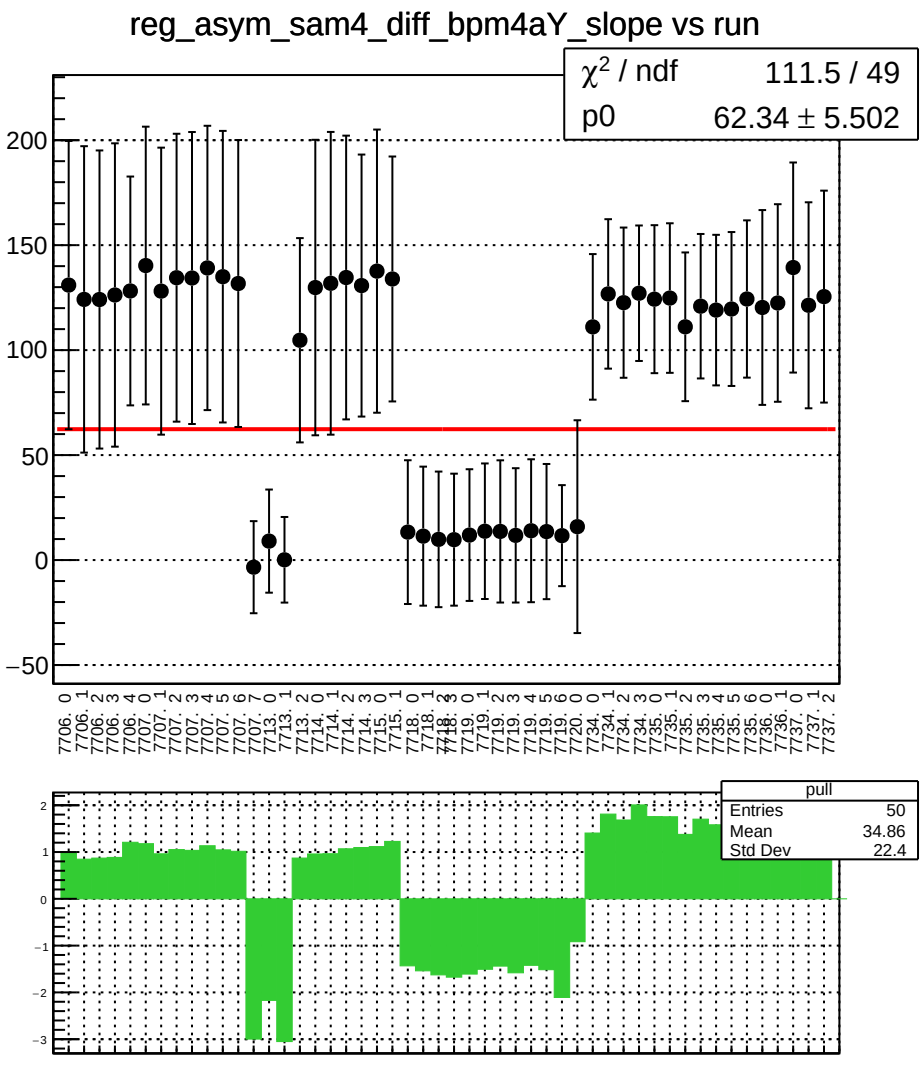

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.367 / 49
p0 18.86 ± 4.523
pull
Entries 50
Mean 28.88
Std Dev 21.14

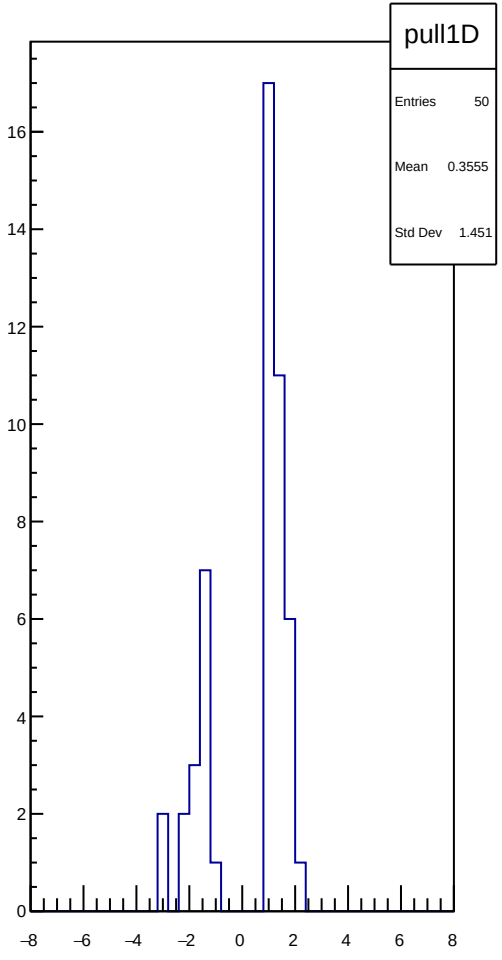

pull1D
Entries 50
Mean −0.0817
Std Dev 0.284

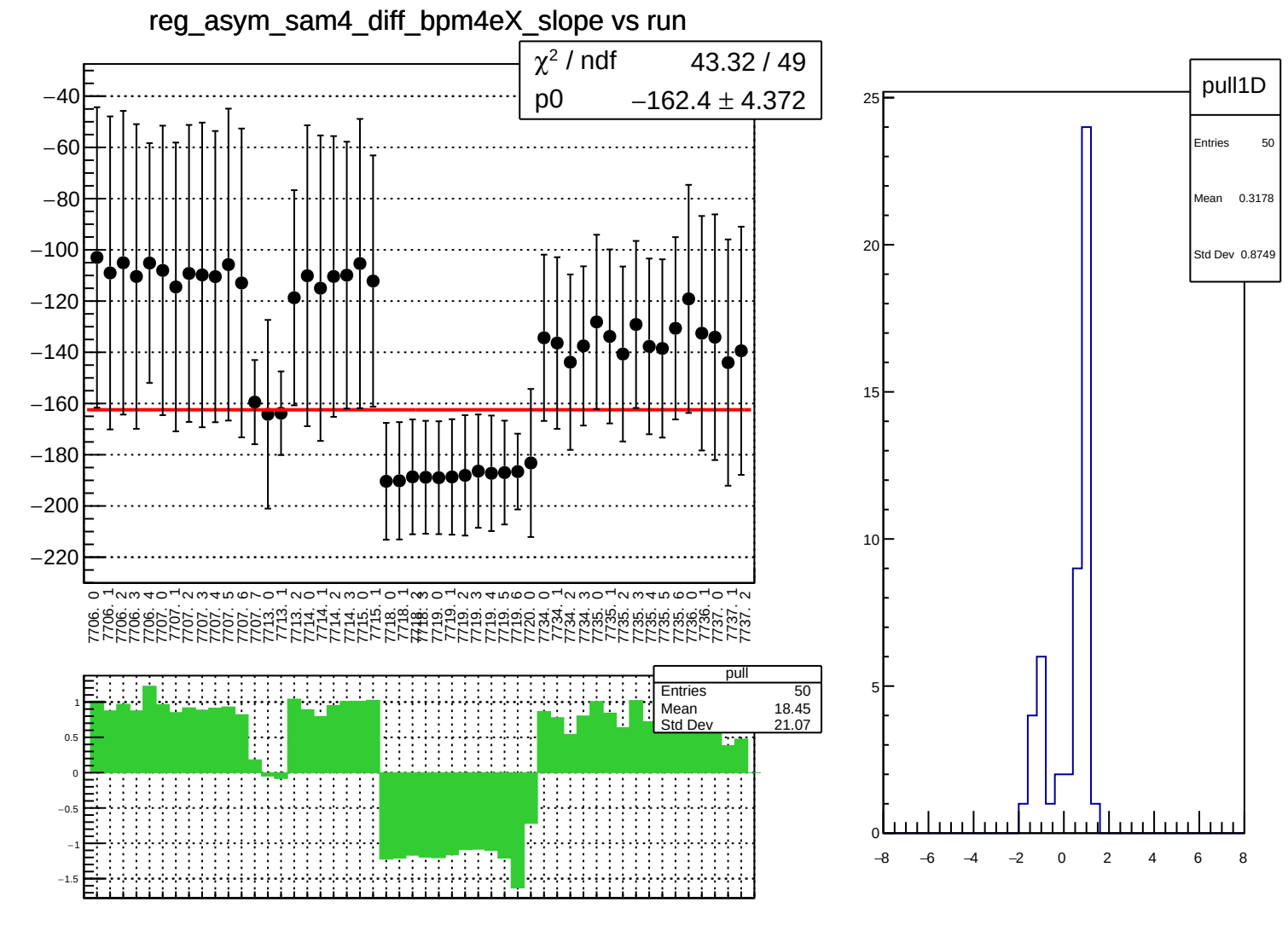

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 34.01 / 49
p0 −0.1995 ± 0.1888
pull
Entries 50
Mean 1.798
Std Dev 37.38
pull1D
Entries 50
Mean 0.08551
Std Dev 0.8203

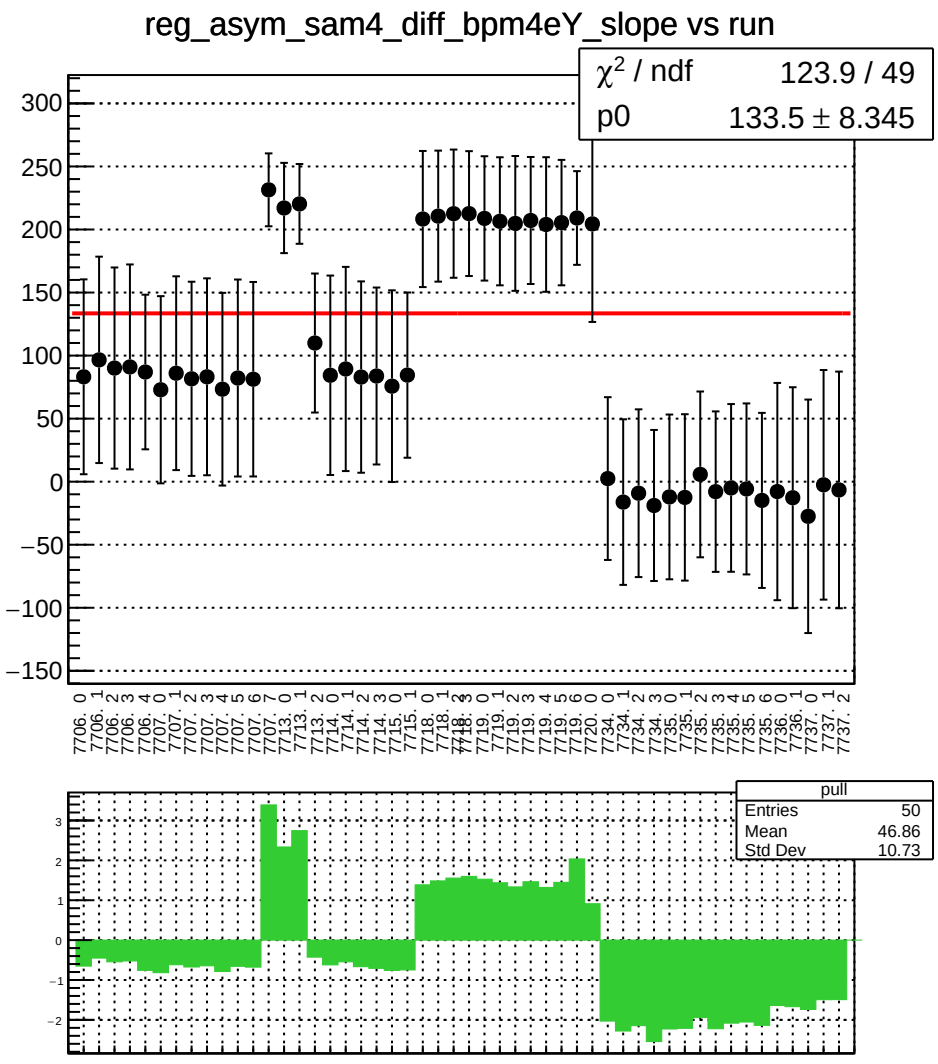

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 46.62 / 49
p0 −24.61 ± 4.996
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 19.94
Std Dev 23.94
1.5
1
0.5
0
−0.5
−1

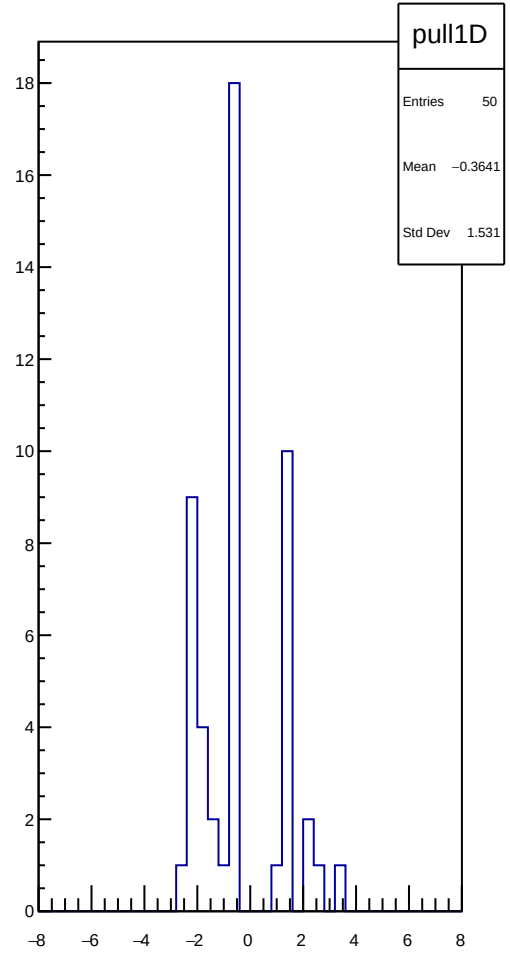

pull1D
Entries 50
Mean −0.2537
Std Dev 0.9317
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

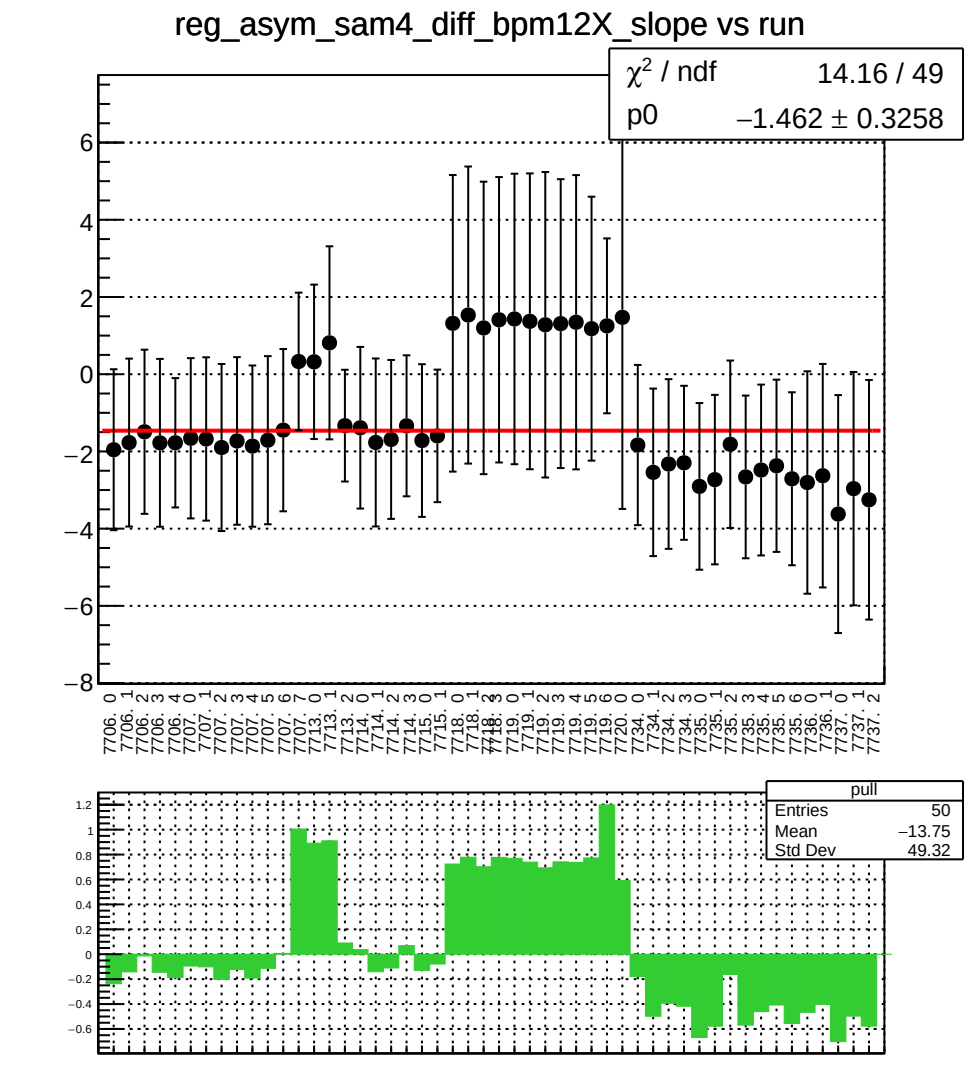

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 111.5 / 49
p0 62.34 ± 5.502
200
150
100
50
0
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 34.86
Std Dev 22.4
2
1
0
−1
−2
−3

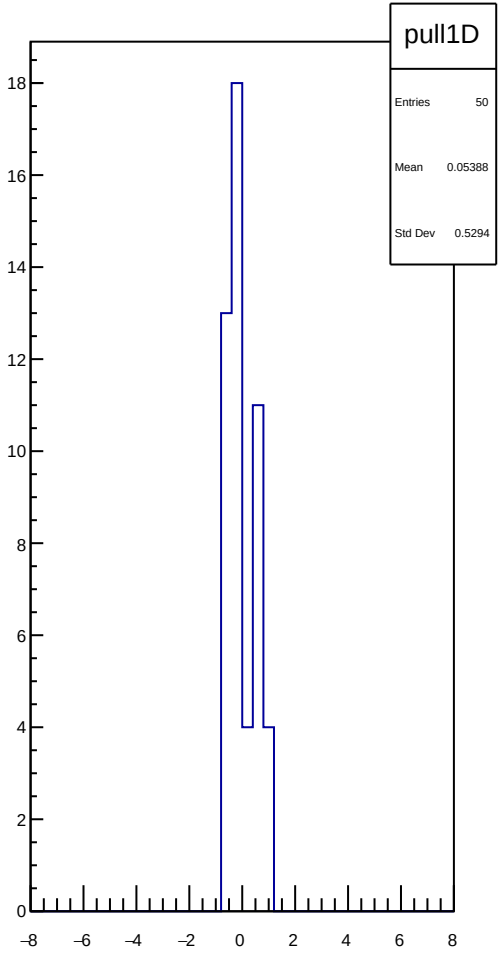

pull1D
Entries 50
Mean 0.3555
Std Dev 1.451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

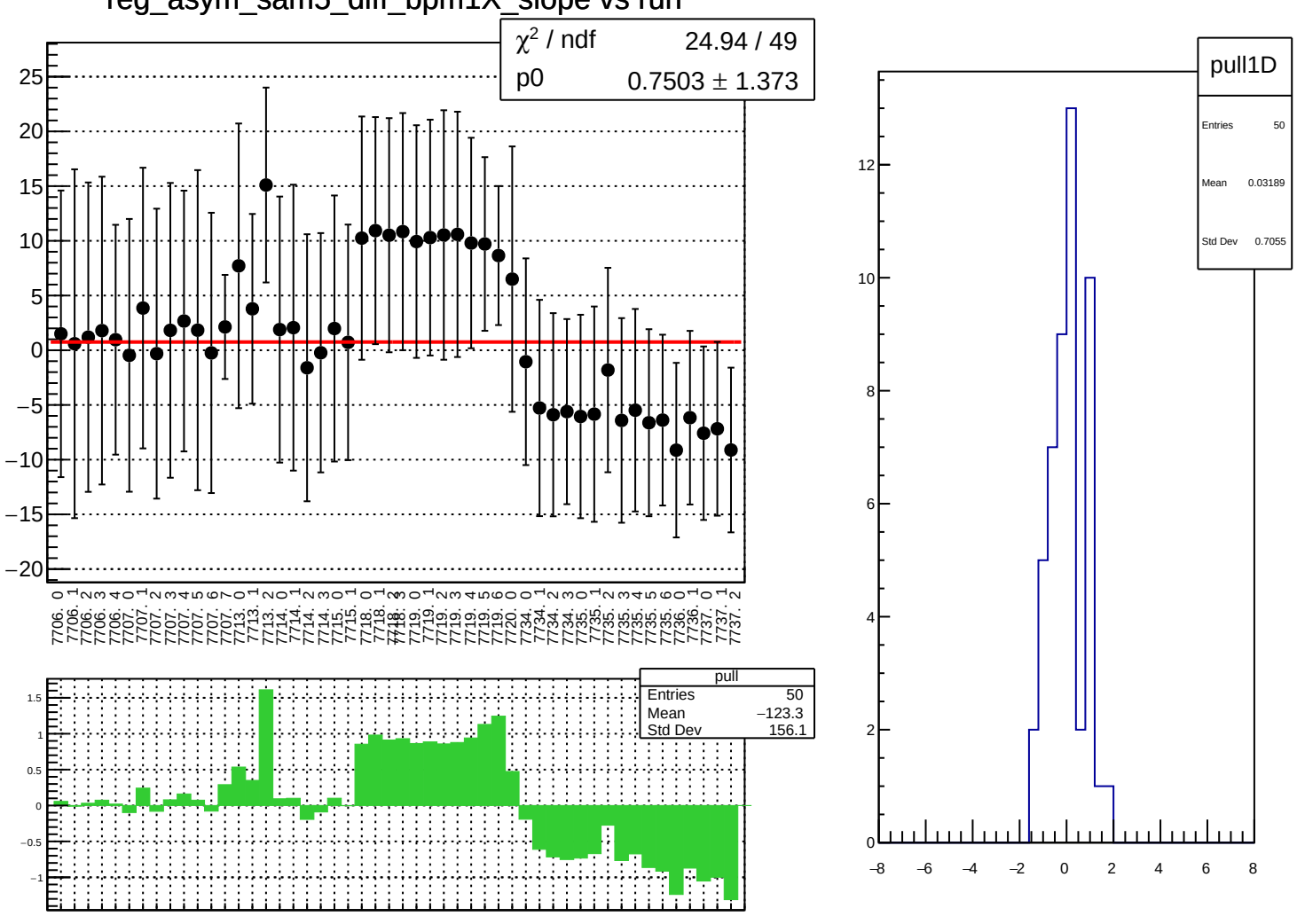

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 43.32 / 49
p0 −162.4 ± 4.372
pull
Entries 50
Mean 18.45
Std Dev 21.07
pull1D
Entries 50
Mean 0.3178
Std Dev 0.8749

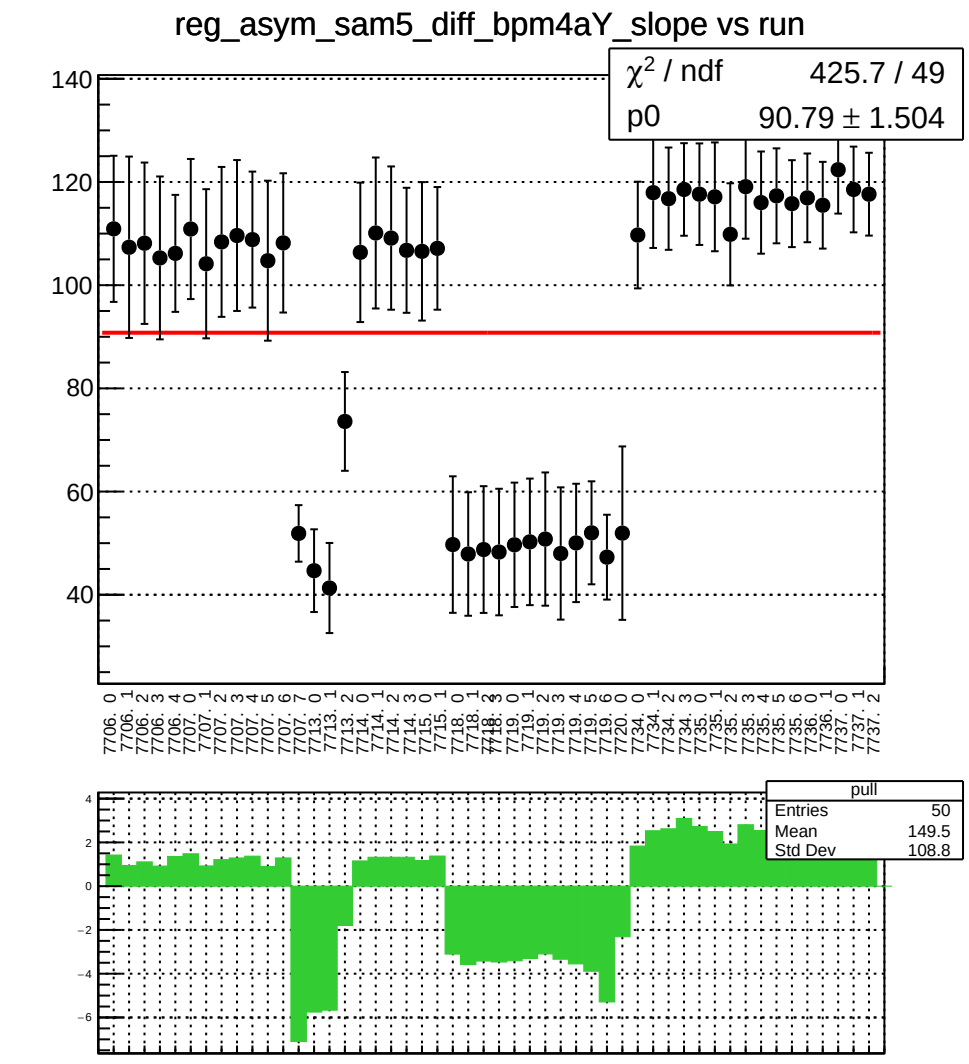

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 123.9 / 49
p0 133.5 ± 8.345
pull
Entries 50
Mean 46.86
Std Dev 10.73

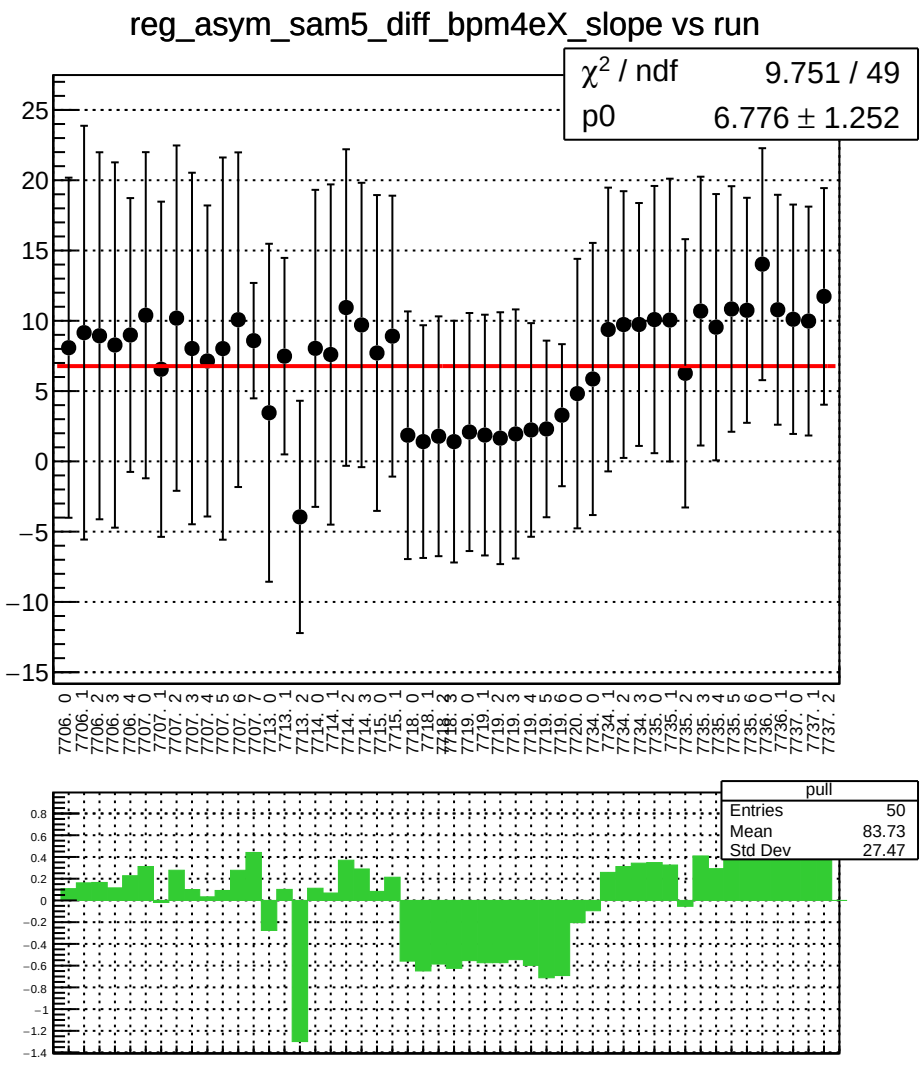

pull1D
Entries 50
Mean −0.3641
Std Dev 1.531

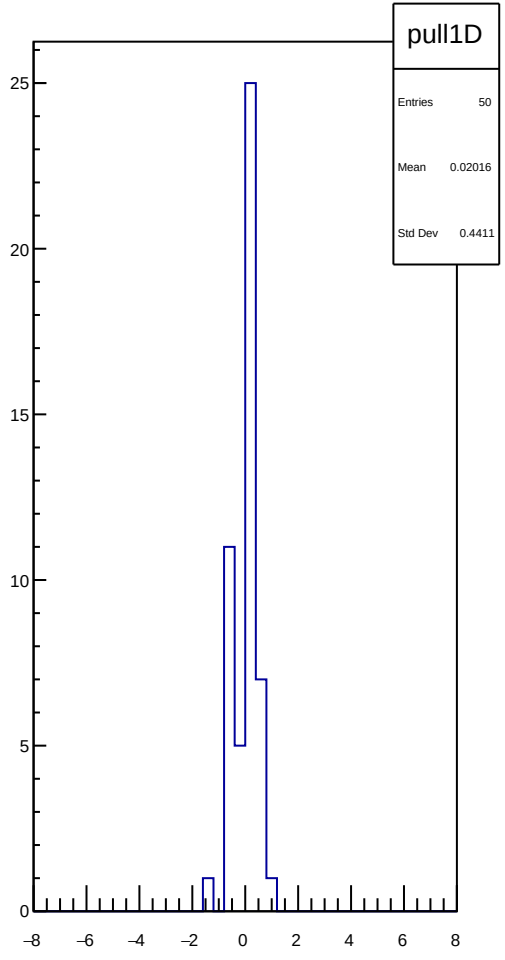

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 14.16 / 49
p0 −1.462 ± 0.3258
pull
Entries 50
Mean −13.75
Std Dev 49.32

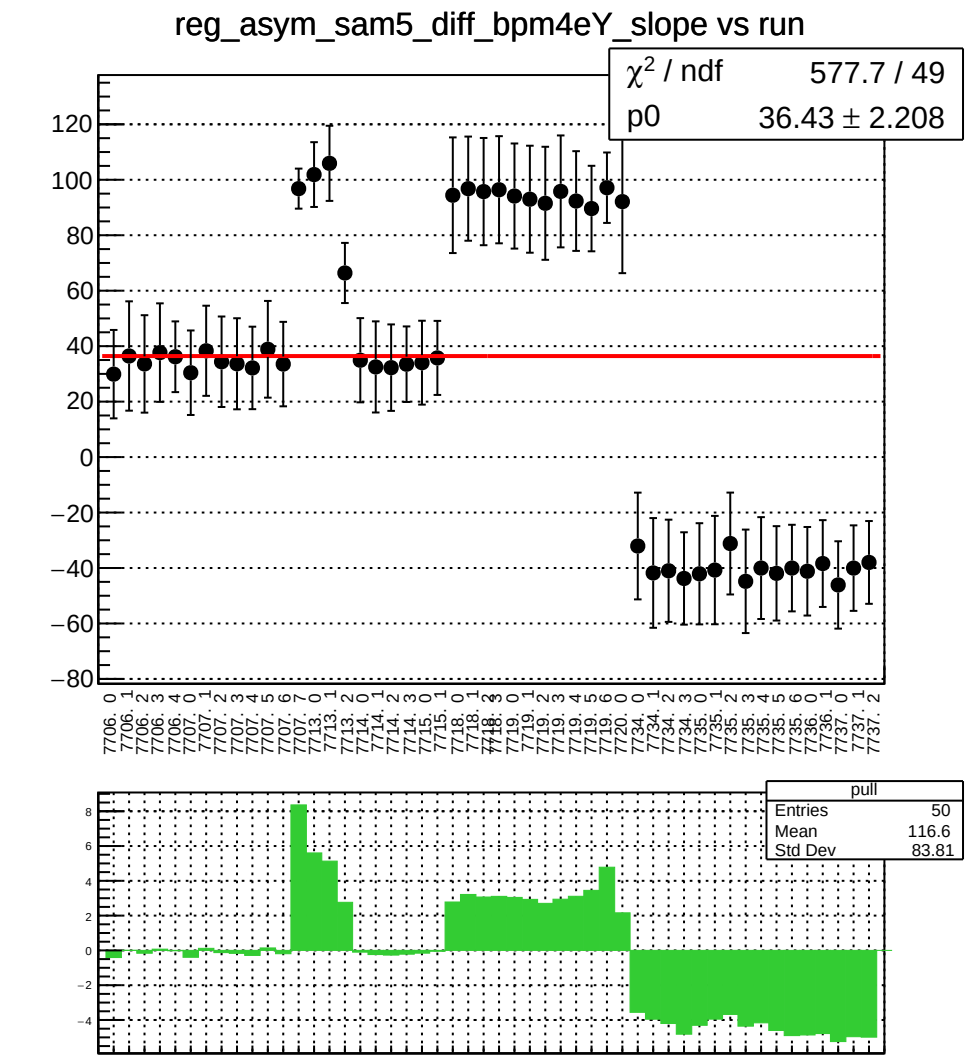

pull1D
Entries 50
Mean 0.05388
Std Dev 0.5294

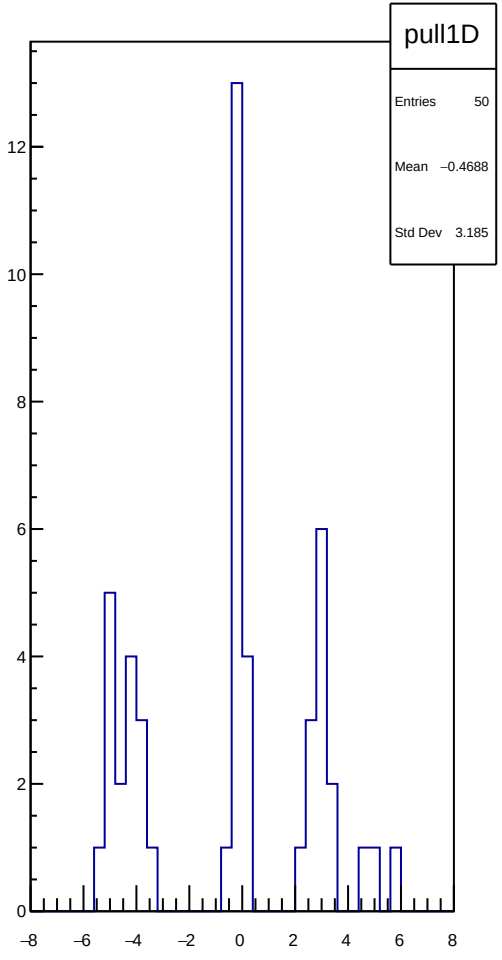

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 24.94 / 49
p0 0.7503 ± 1.373
pull
Entries 50
Mean −123.3
Std Dev 156.1
pull1D
Entries 50
Mean 0.03189
Std Dev 0.7055

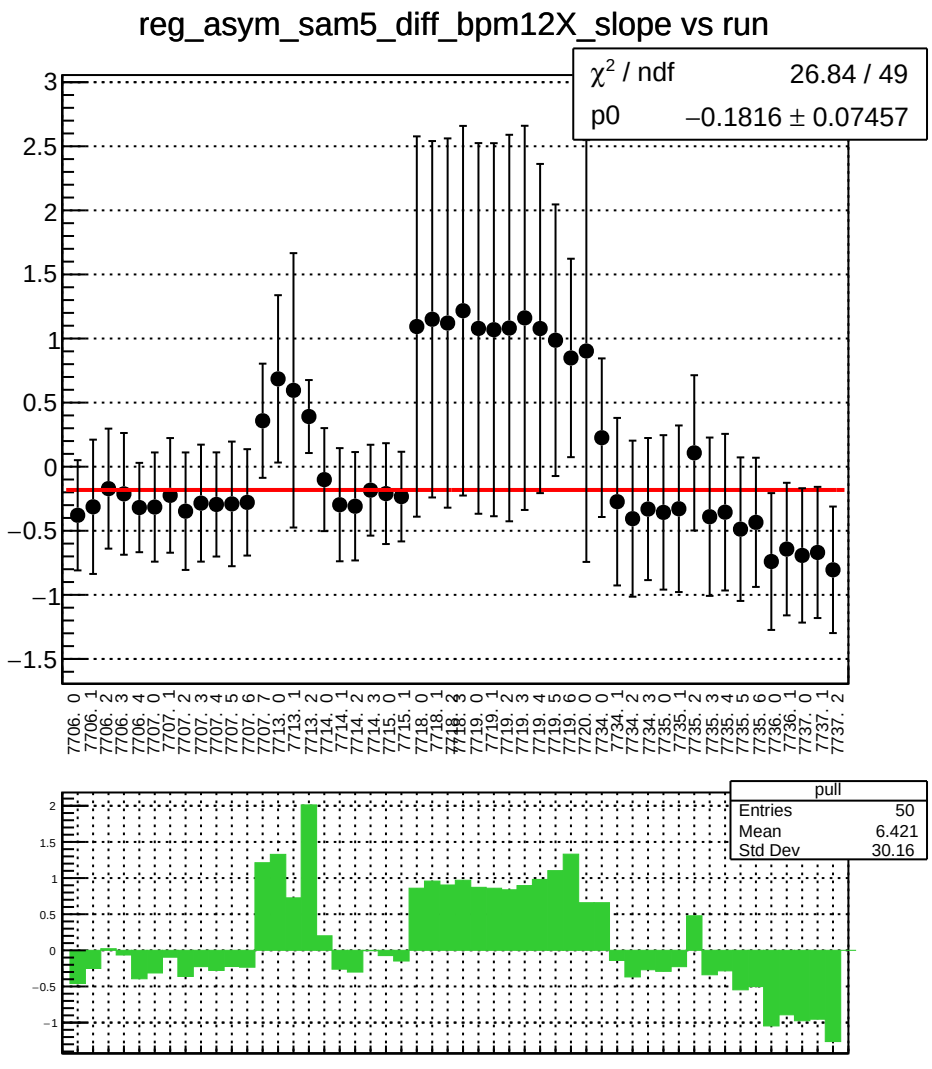

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 425.7 / 49
p0 90.79 ± 1.504
140
120
100
80
60
40
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 149.5
Std Dev 108.8
4
2
0
−2
−4
−6
pull1D
Entries 50
Mean 0.09211
Std Dev 2.916
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

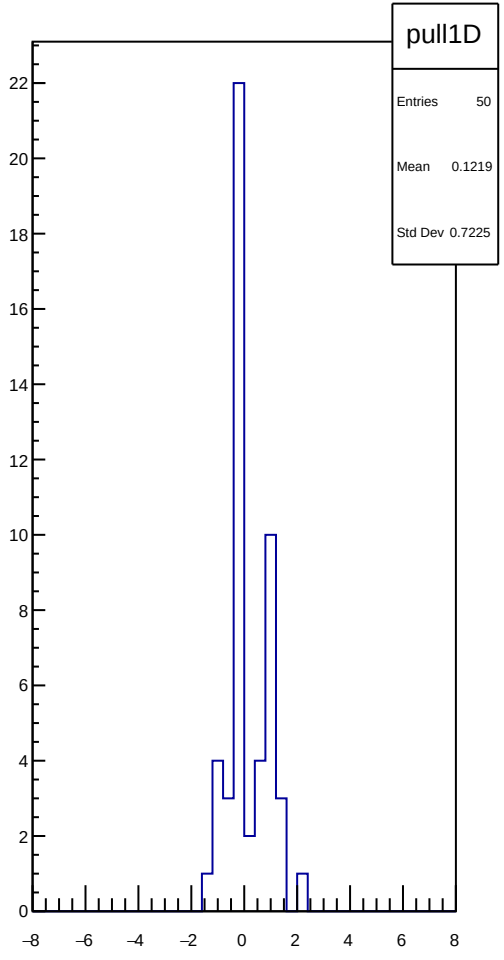

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 9.751 / 49
p0 6.776 ± 1.252
pull
Entries 50
Mean 83.73
Std Dev 27.47

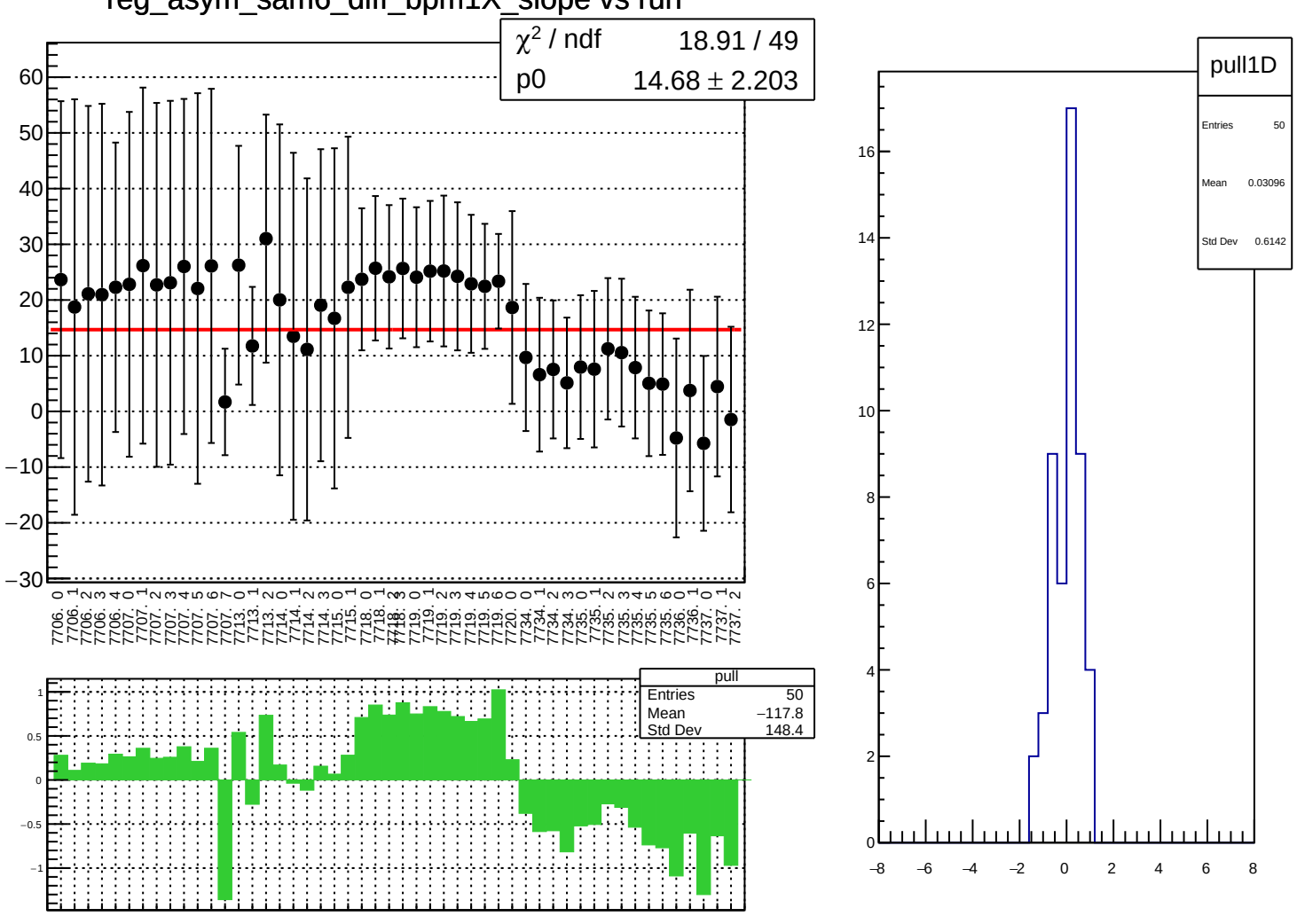

pull1D
Entries 50
Mean 0.02016
Std Dev 0.4411

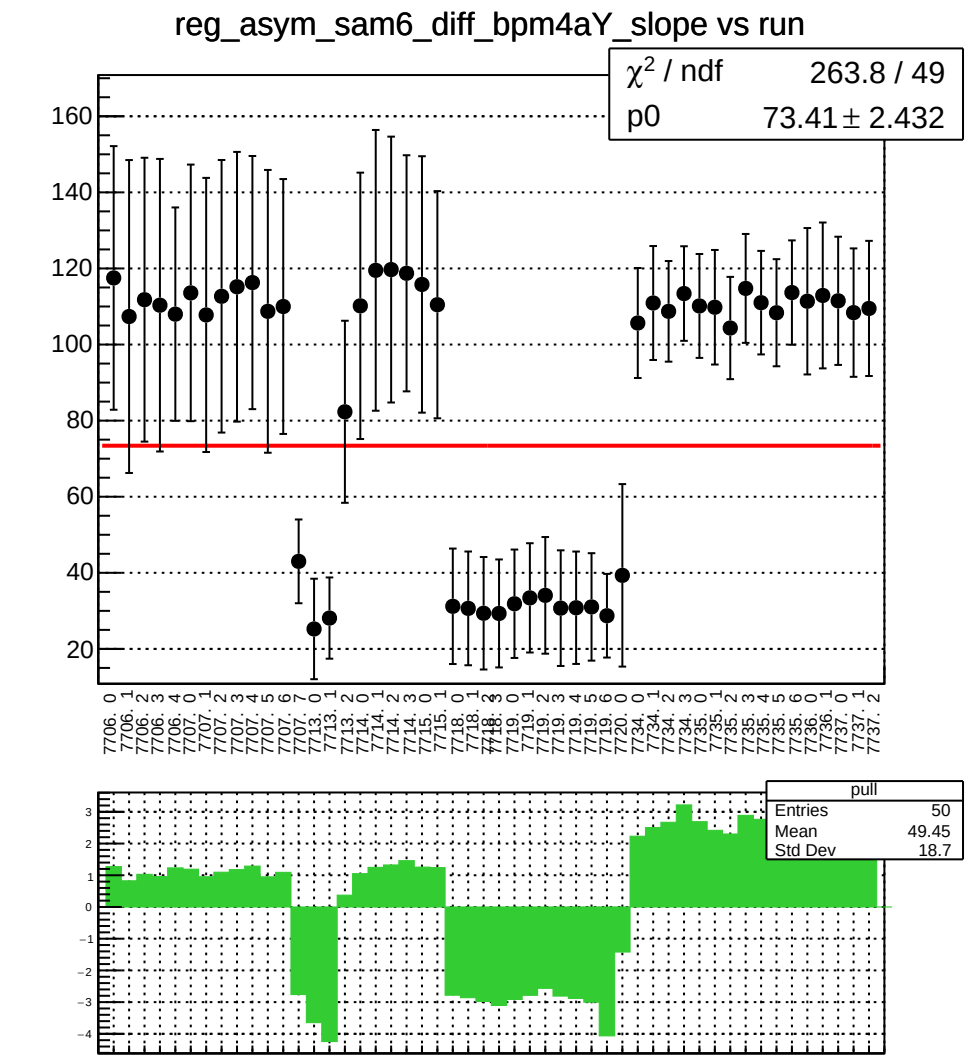

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 577.7 / 49
p0 36.43 ± 2.208
pull
Entries 50
Mean 116.6
Std Dev 83.81

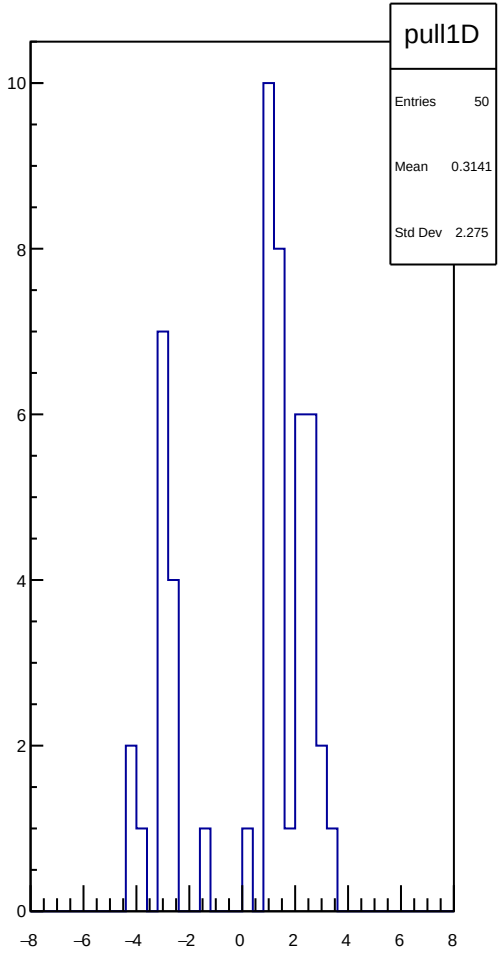

pull1D
Entries 50
Mean −0.4688
Std Dev 3.185

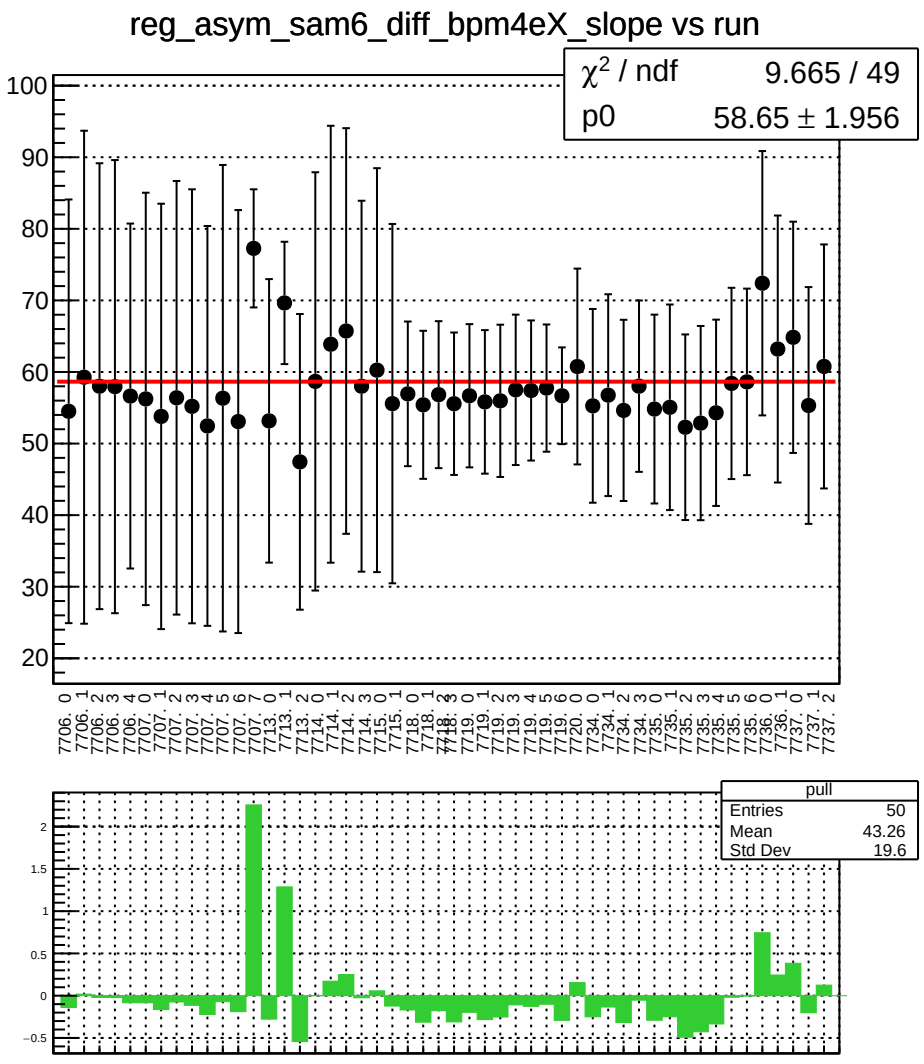

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 26.84 / 49
p0 −0.1816 ± 0.07457
pull
Entries 50
Mean 6.421
Std Dev 30.16

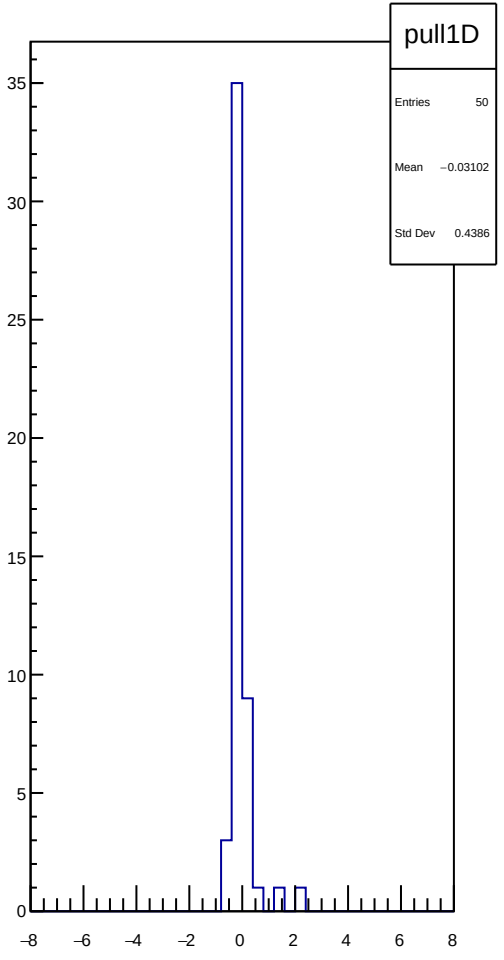

pull1D
Entries 50
Mean 0.1219
Std Dev 0.7225

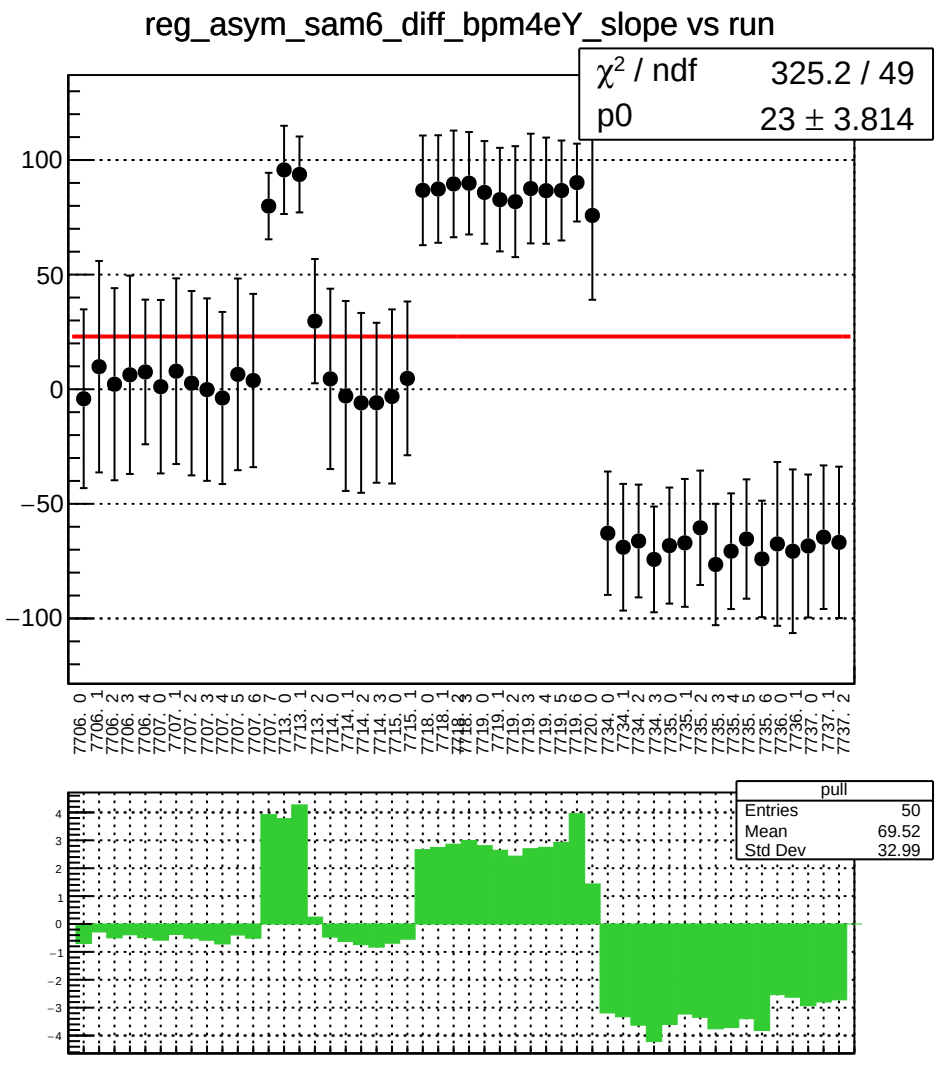

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 18.91 / 49
p0 14.68 ± 2.203
pull
Entries 50
Mean −117.8
Std Dev 148.4
pull1D
Entries 50
Mean 0.03096
Std Dev 0.6142

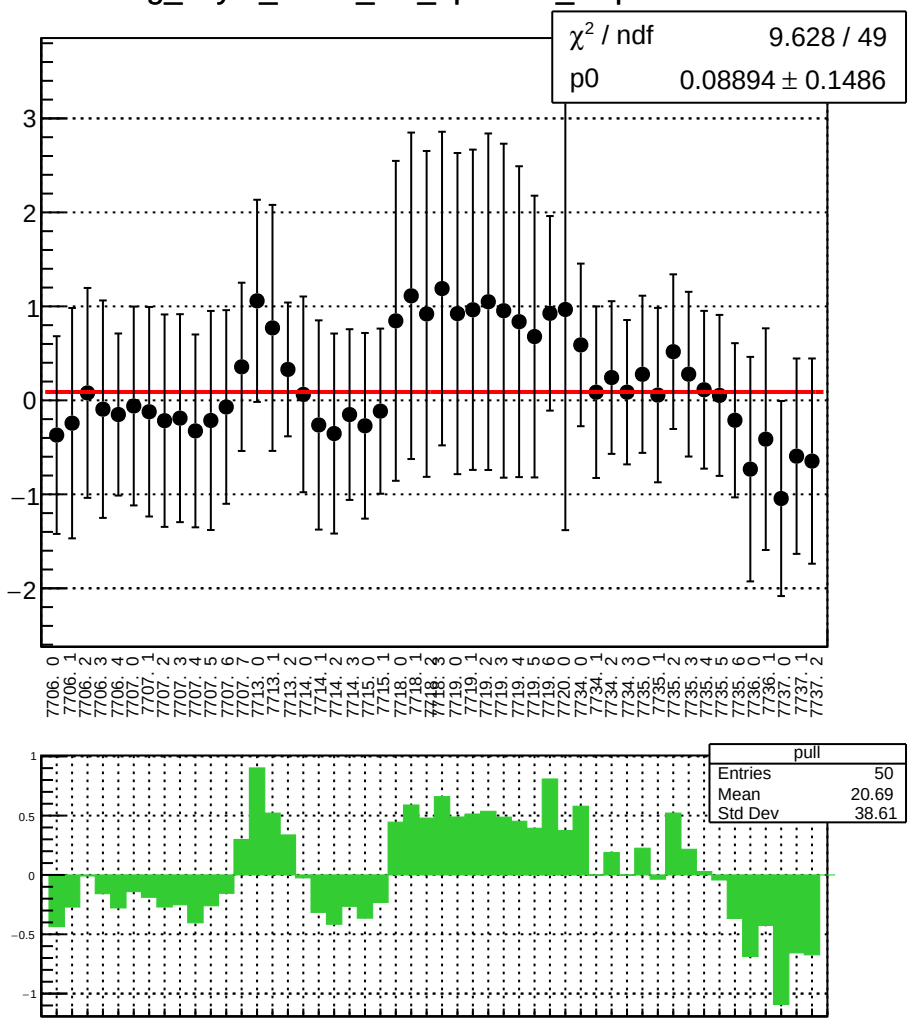

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 263.8 / 49
p0 73.41 ± 2.432
pull
Entries 50
Mean 49.45
Std Dev 18.7

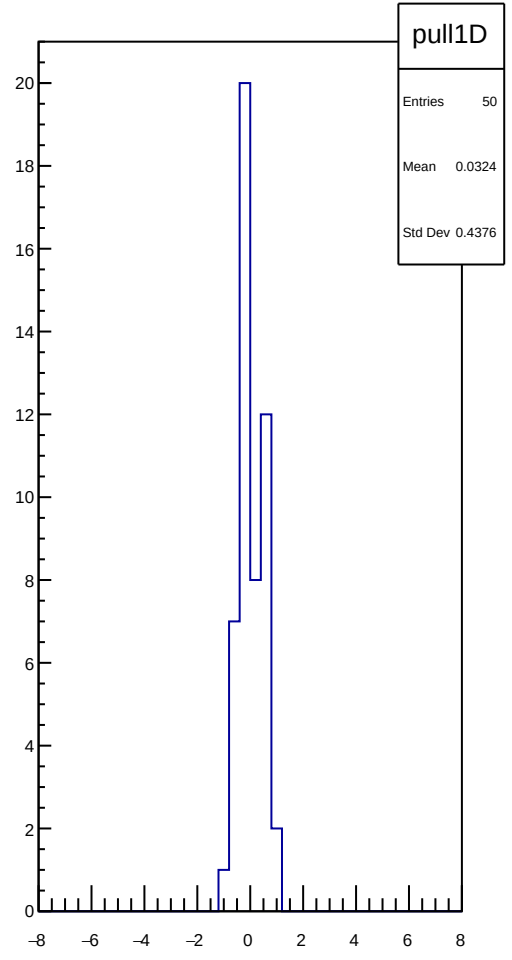

pull1D
Entries 50
Mean 0.3141
Std Dev 2.275

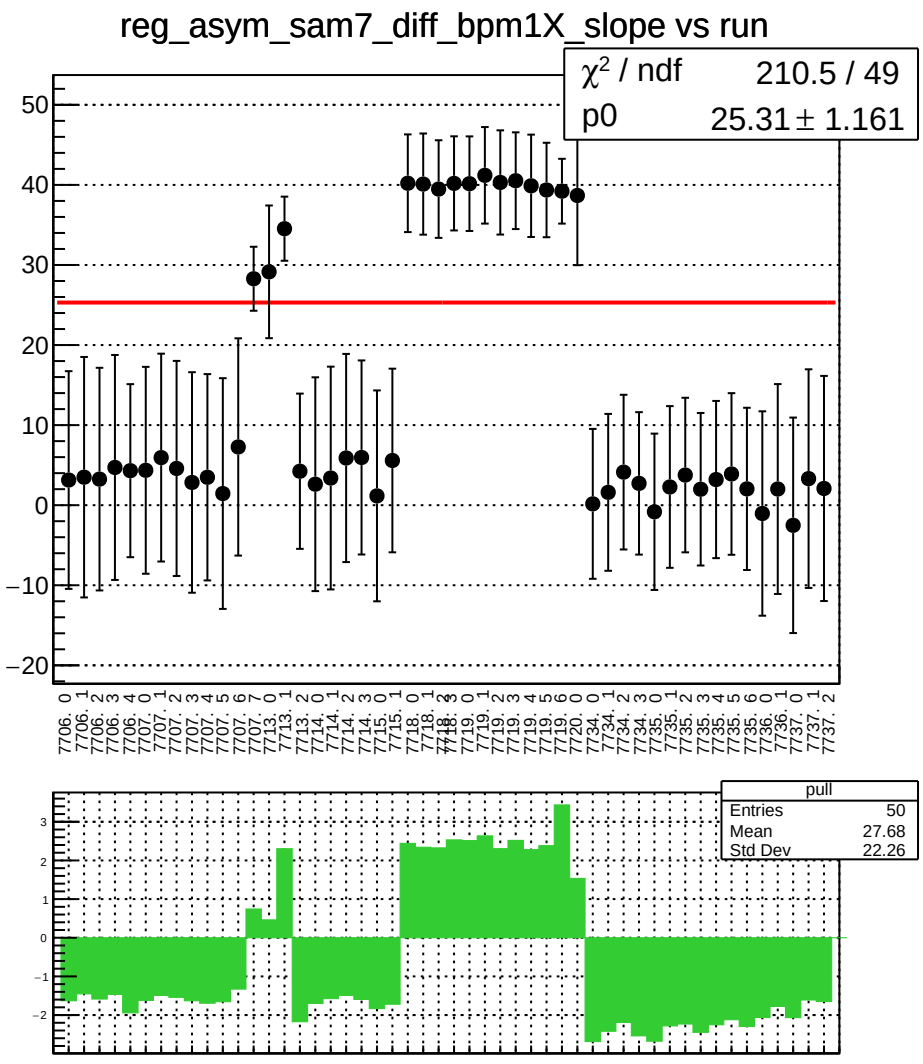

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.665 / 49
p0 58.65 ± 1.956
pull
Entries 50
Mean 43.26
Std Dev 19.6

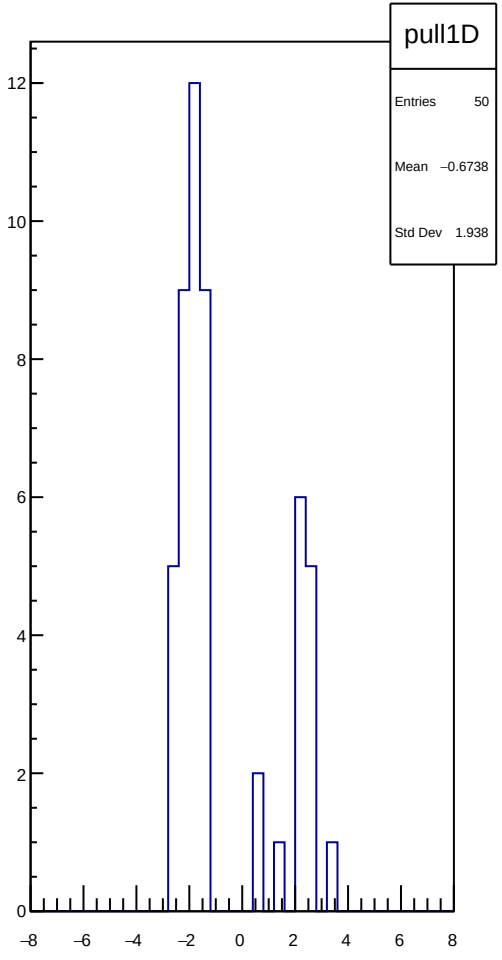

pull1D
Entries 50
Mean −0.03102
Std Dev 0.4386

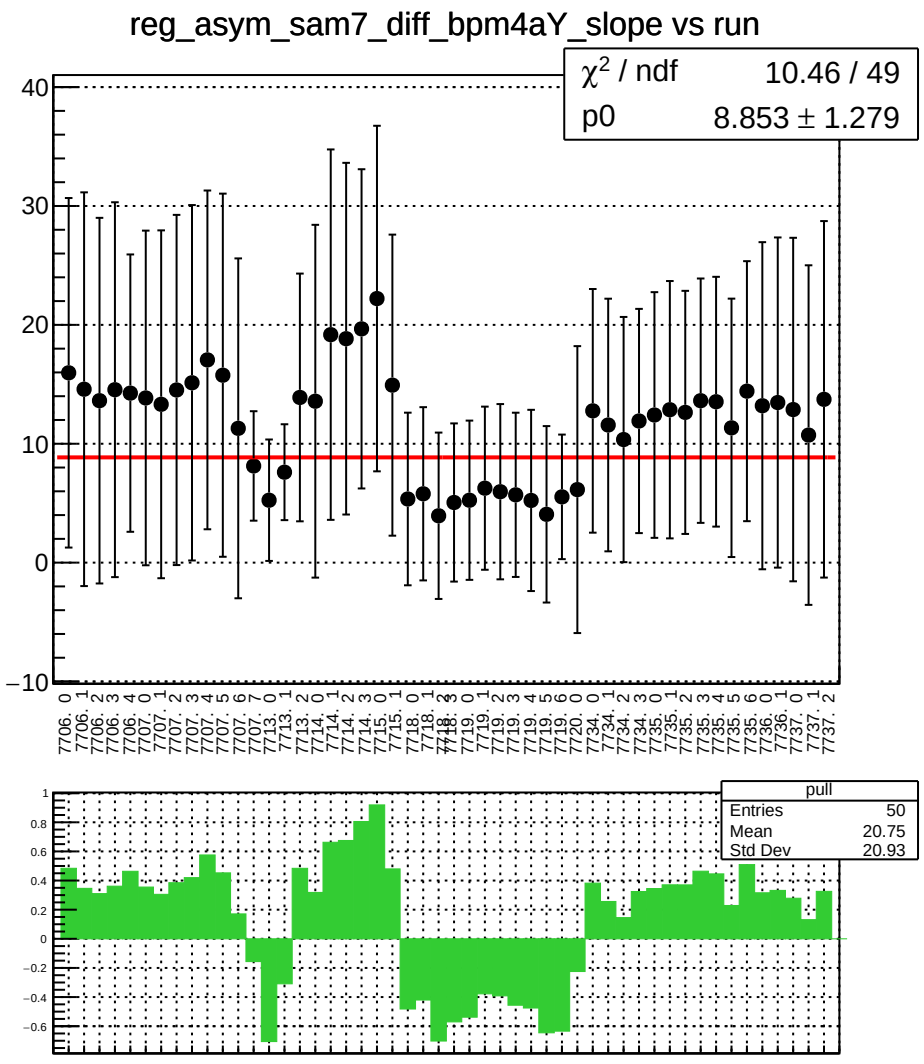

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 325.2 / 49
p0 23 ± 3.814
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 69.52
Std Dev 32.99
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 50
Mean −0.3522
Std Dev 2.526
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

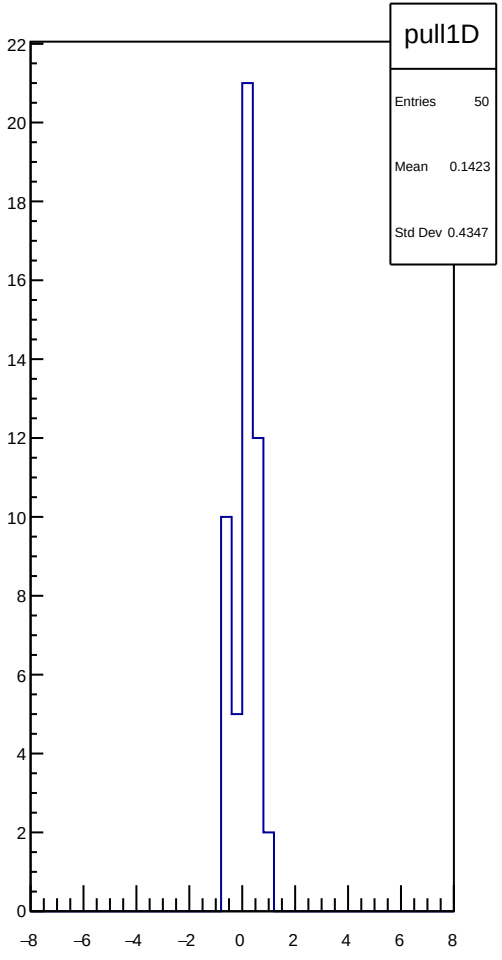

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.628 / 49
p0 0.08894 ± 0.1486
pull
Entries 50
Mean 20.69
Std Dev 38.61

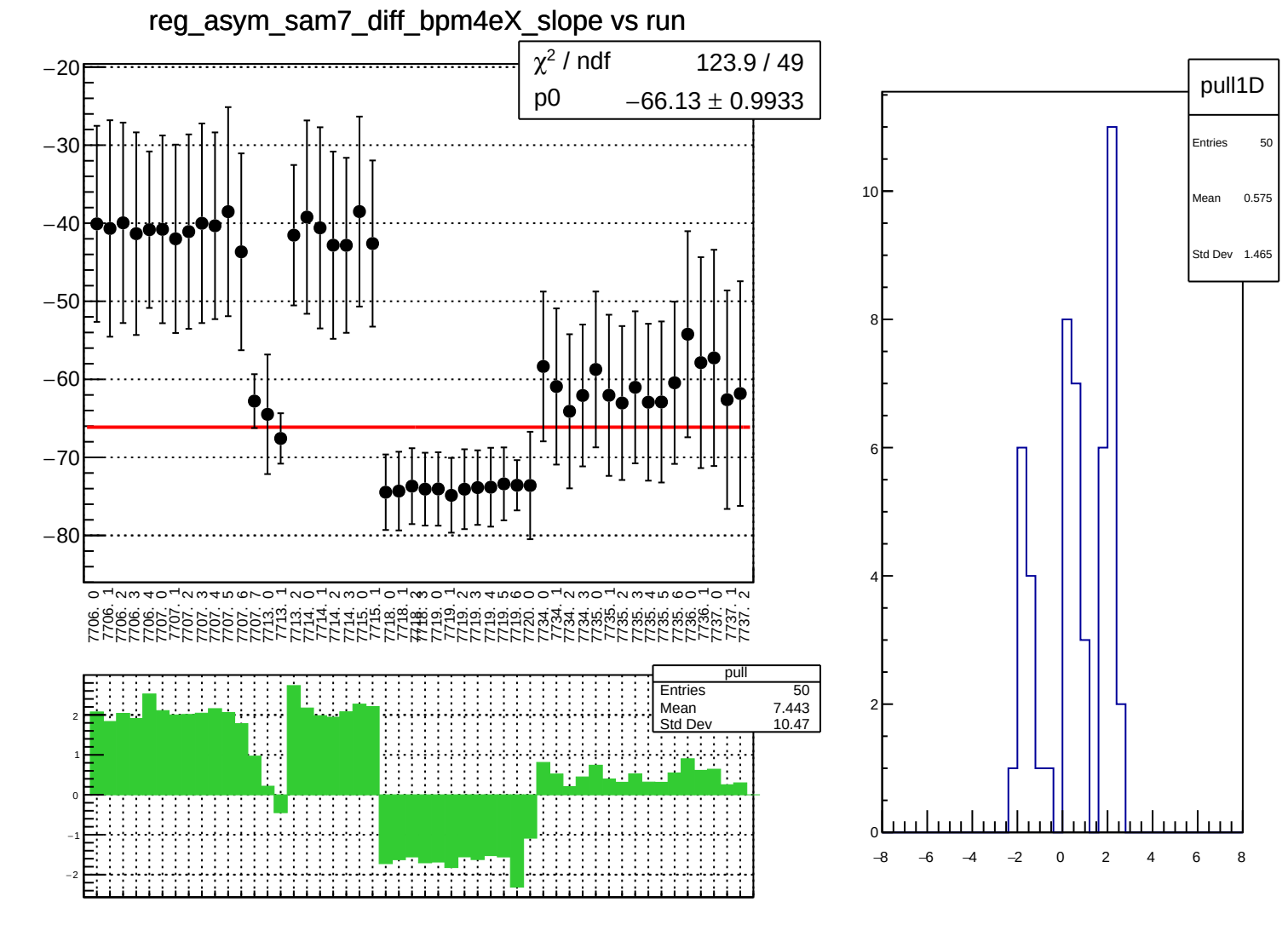

pull1D
Entries 50
Mean 0.0324
Std Dev 0.4376

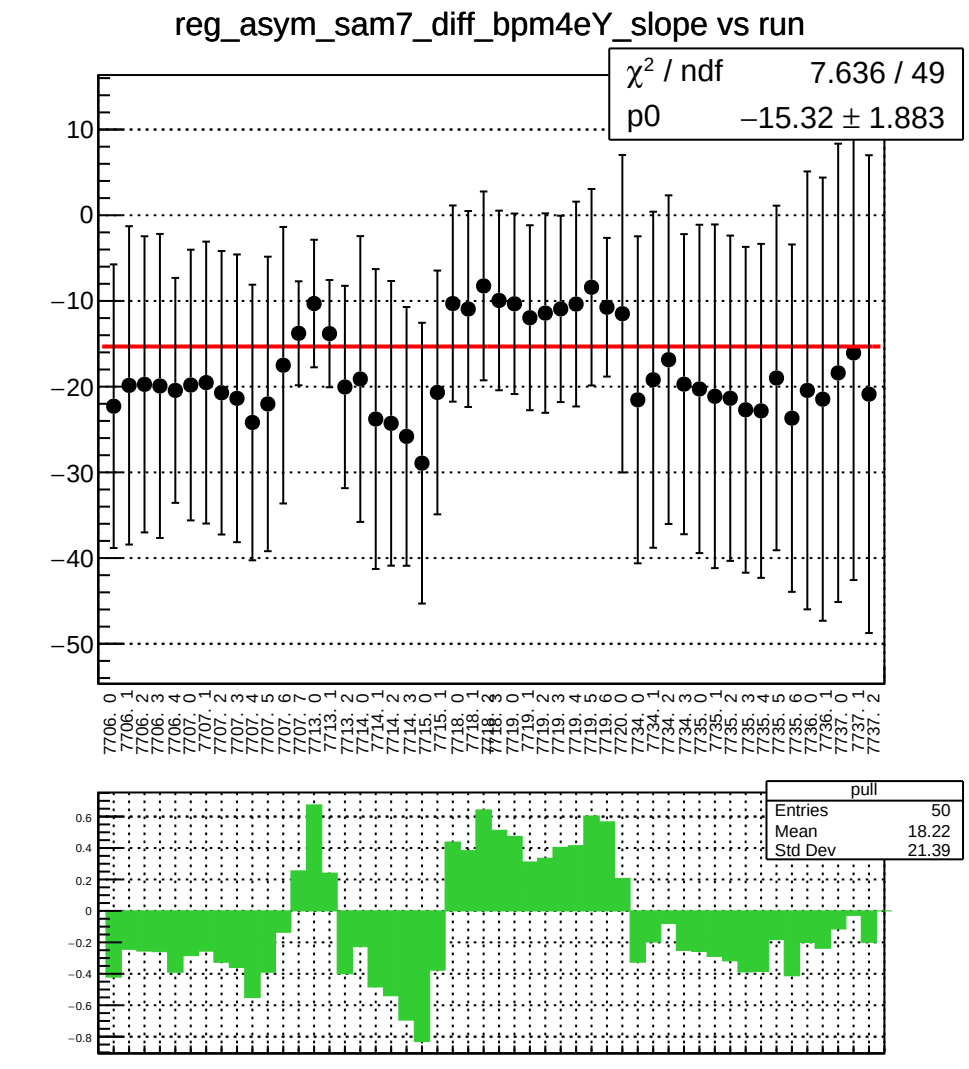

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 210.5 / 49
p0 25.31 ± 1.161
pull
Entries 50
Mean 27.68
Std Dev 22.26

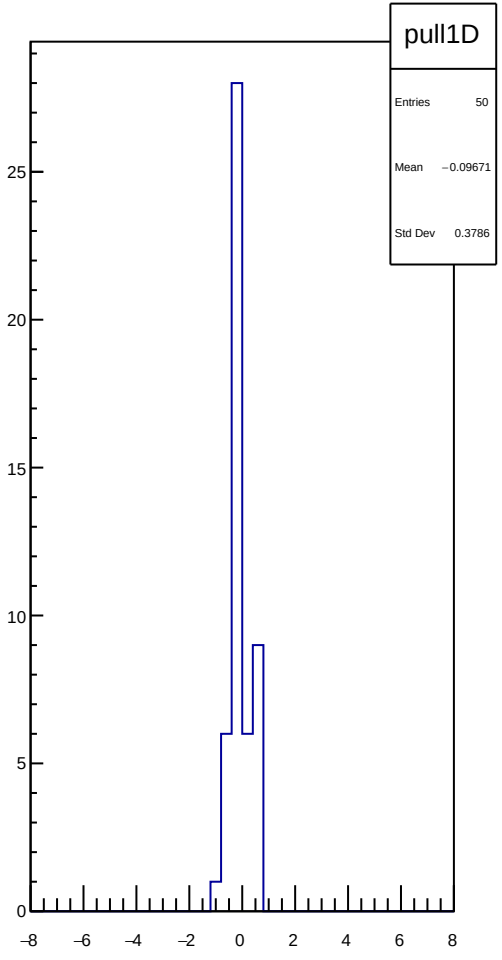

pull1D
Entries 50
Mean −0.6738
Std Dev 1.938

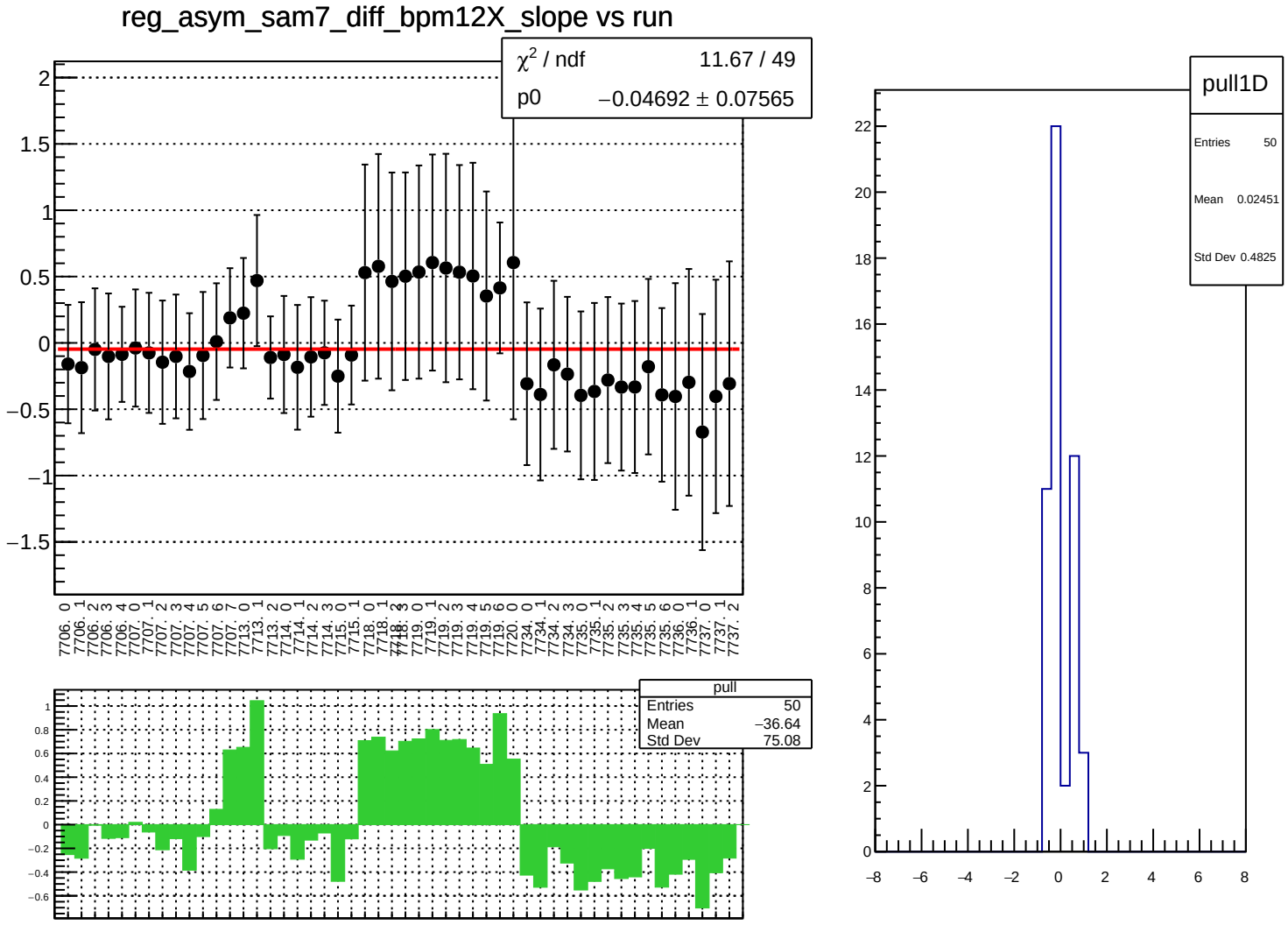

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 10.46 / 49
p0 8.853 ± 1.279
pull
Entries 50
Mean 20.75
Std Dev 20.93

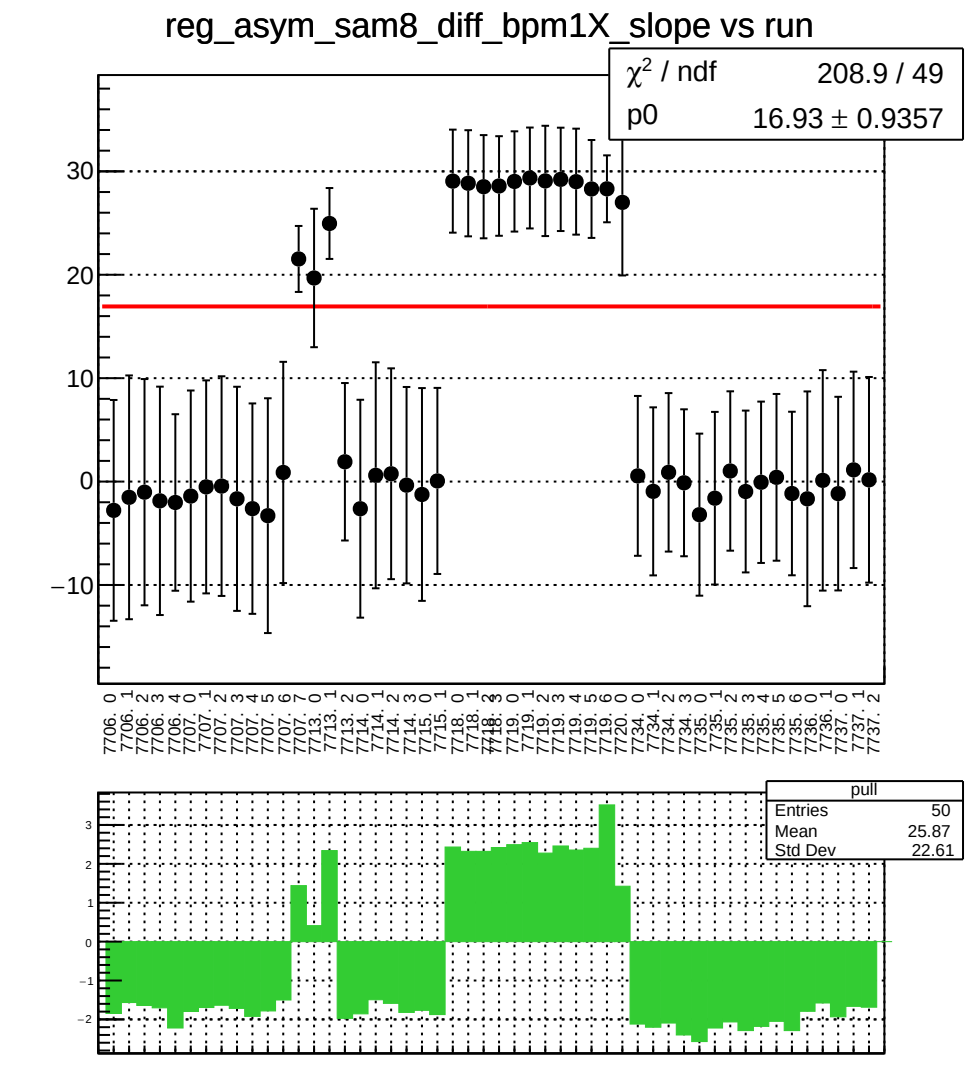

pull1D
Entries 50
Mean 0.1423
Std Dev 0.4347

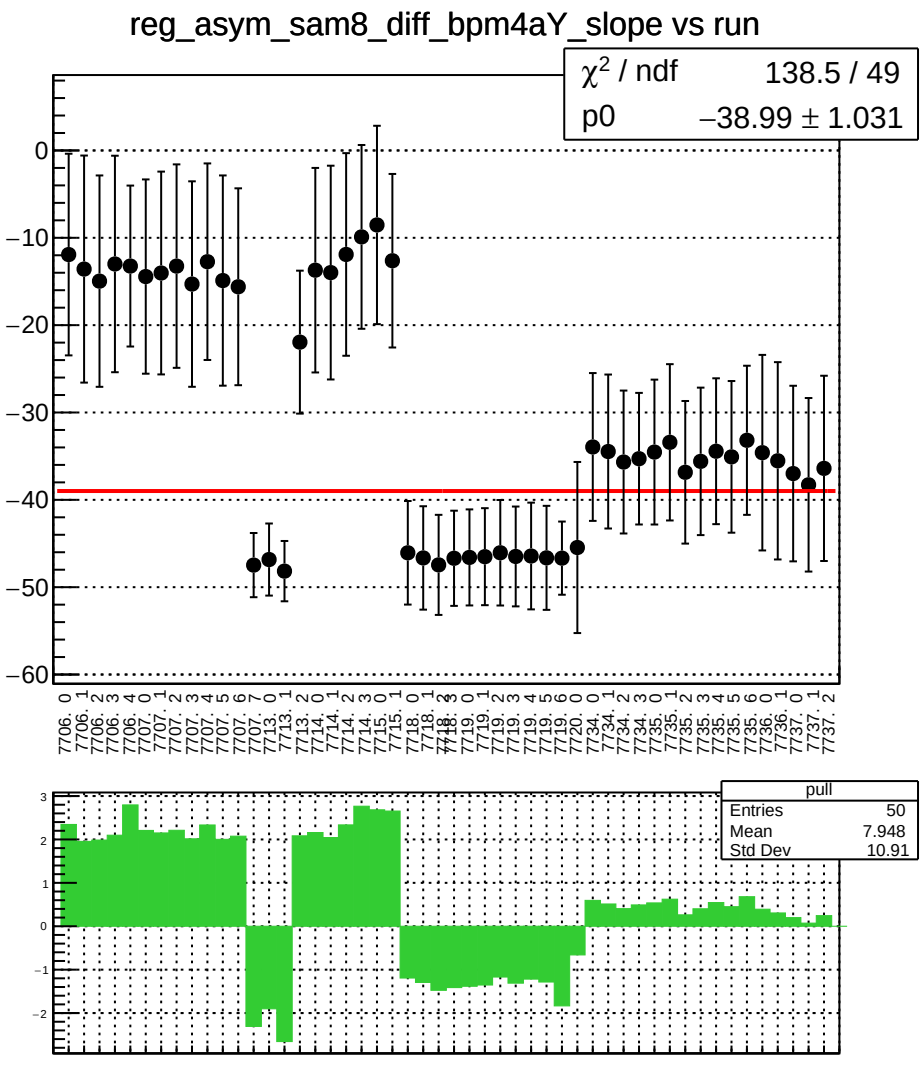

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 123.9 / 49
p0 −66.13 ± 0.9933
pull
Entries 50
Mean 7.443
Std Dev 10.47
pull1D
Entries 50
Mean 0.575
Std Dev 1.465

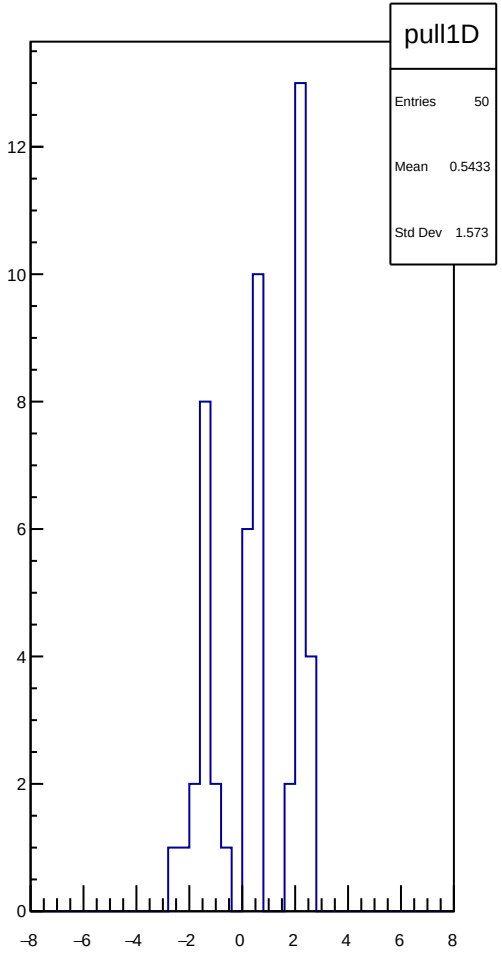

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 7.636 / 49
p0 −15.32 ± 1.883
pull
Entries 50
Mean 18.22
Std Dev 21.39

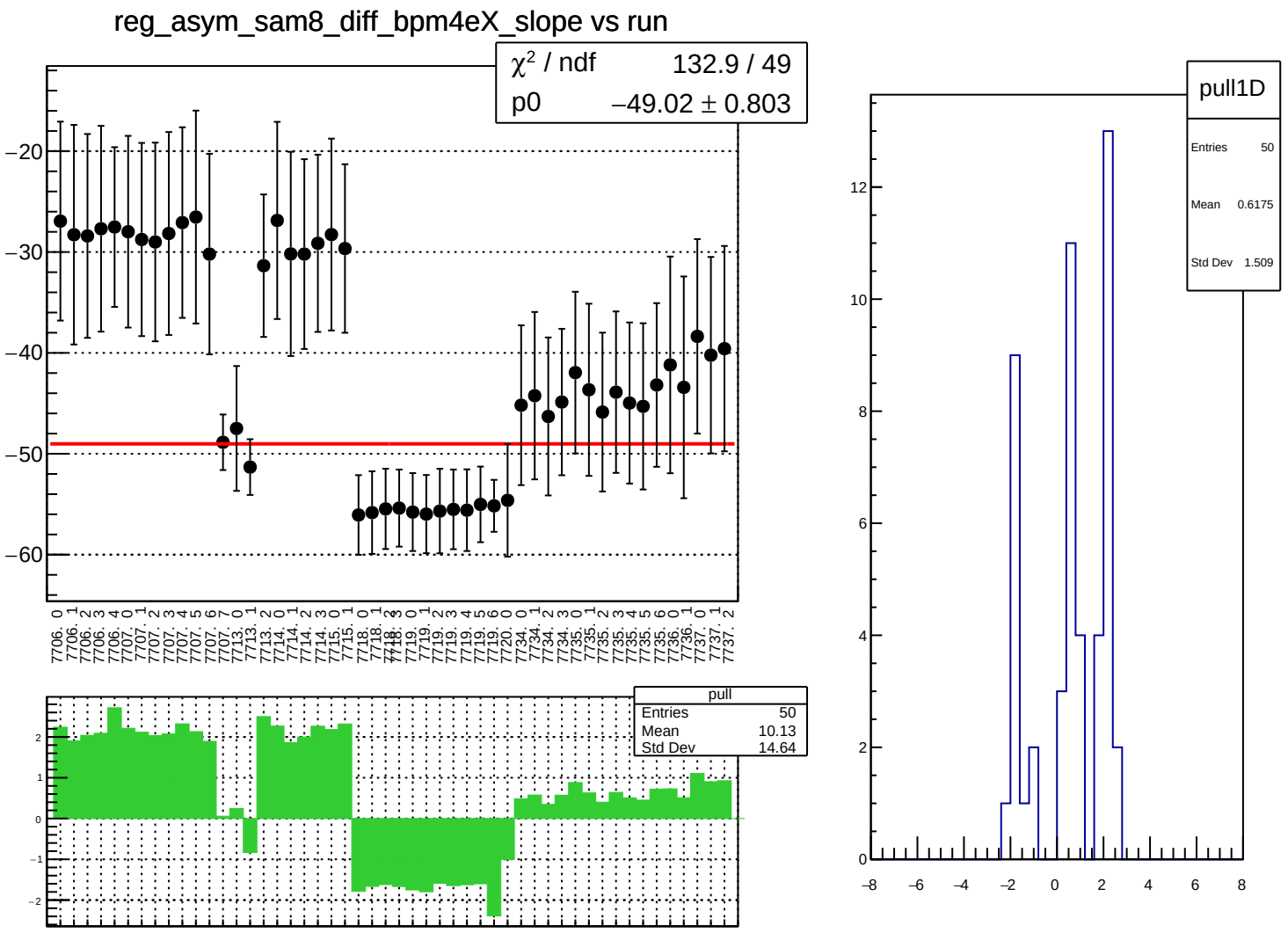

pull1D
Entries 50
Mean −0.09671
Std Dev 0.3786

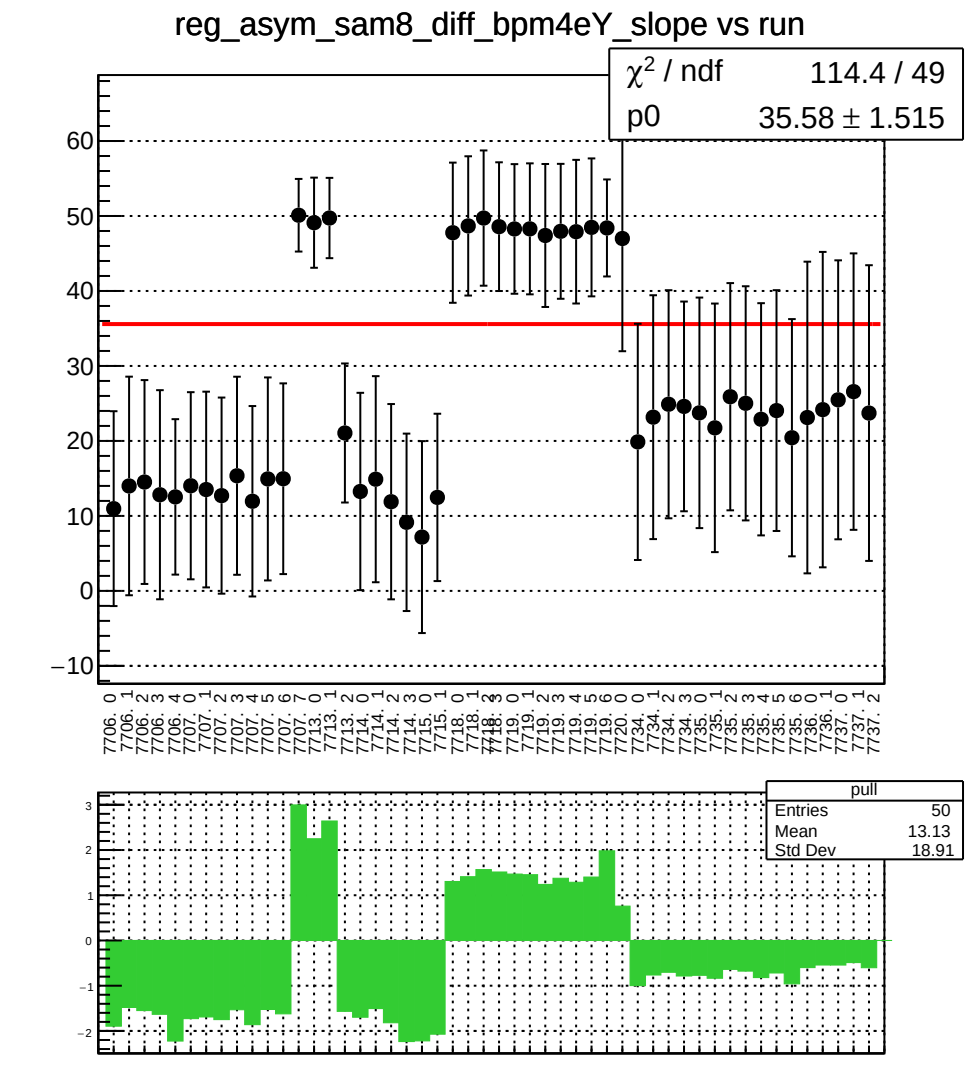

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.67 / 49
p0 −0.04692 ± 0.07565
pull
Entries 50
Mean −36.64
Std Dev 75.08
pull1D
Entries 50
Mean 0.02451
Std Dev 0.4825

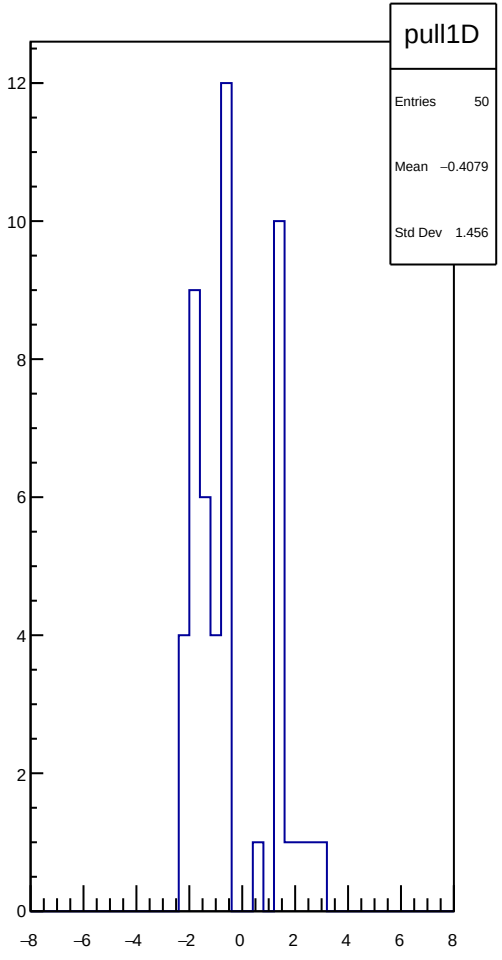

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 208.9 / 49
p0 16.93 ± 0.9357
30
20
10
0
−10
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 25.87
Std Dev 22.61
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.6673
Std Dev 1.932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

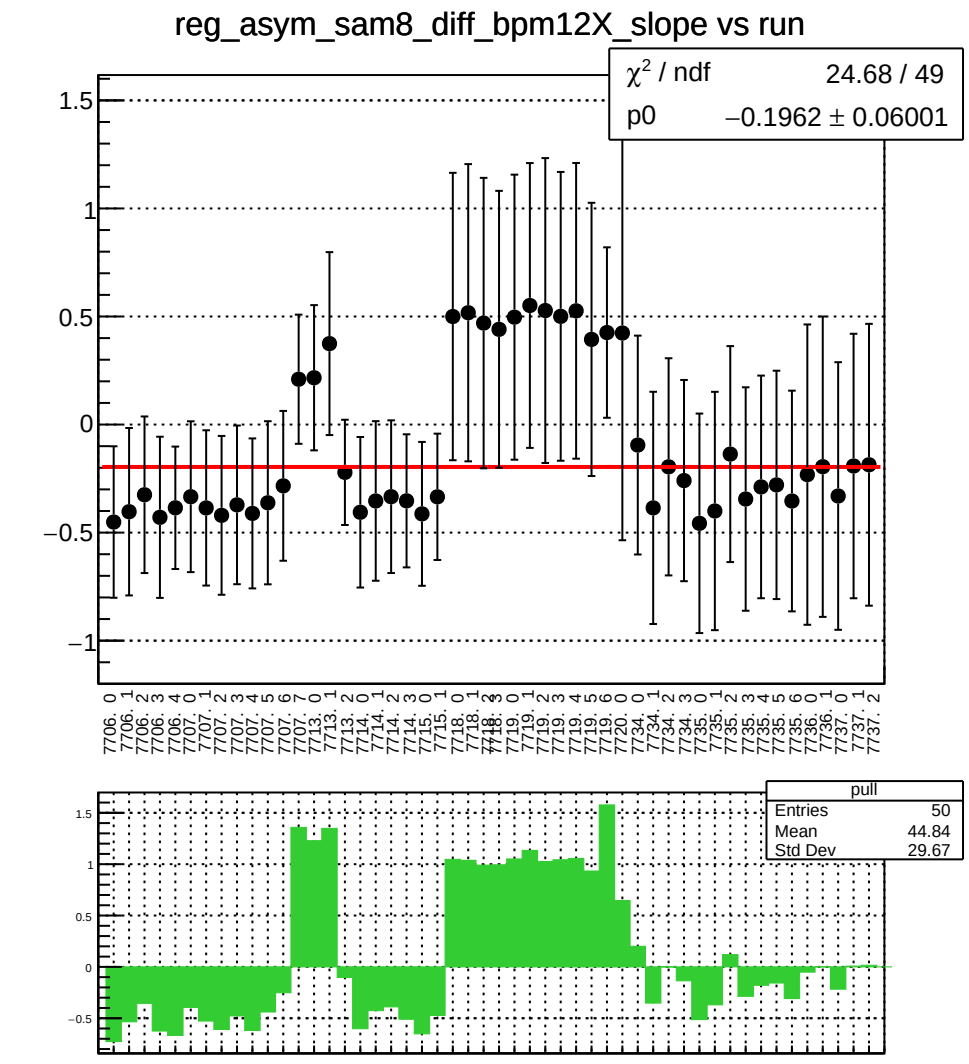

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 138.5 / 49
p0 −38.99 ± 1.031
pull
Entries 50
Mean 7.948
Std Dev 10.91

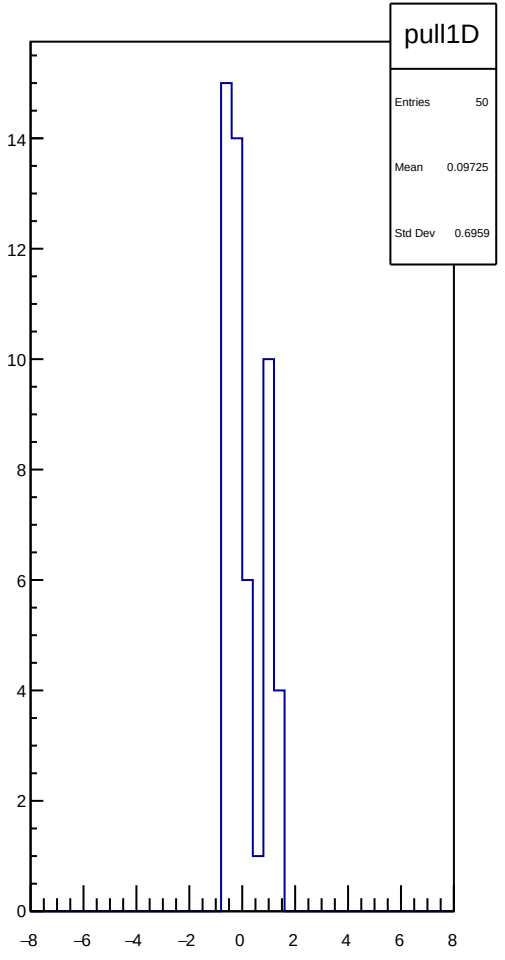

pull1D
Entries 50
Mean 0.5433
Std Dev 1.573

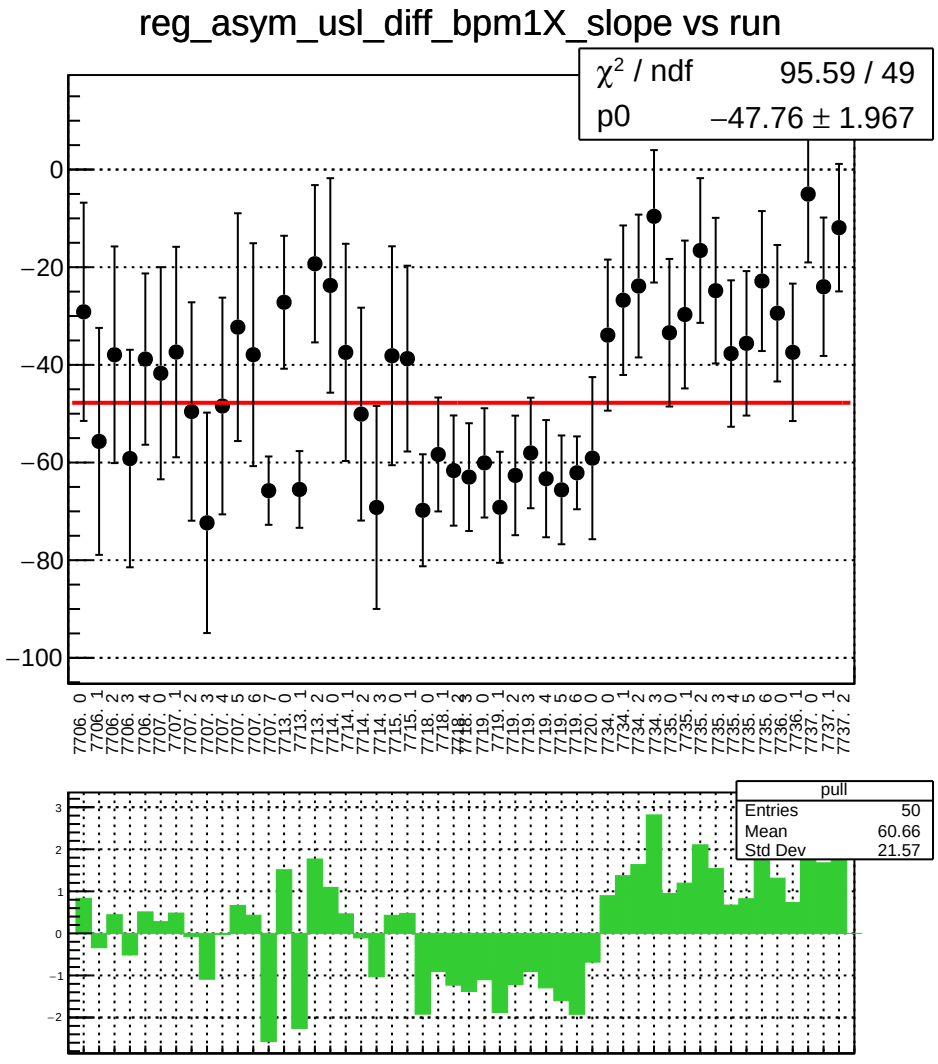

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 132.9 / 49
p0 −49.02 ± 0.803
−20
−30
−40
−50
−60
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 10.13
Std Dev 14.64
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.6175
Std Dev 1.509
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

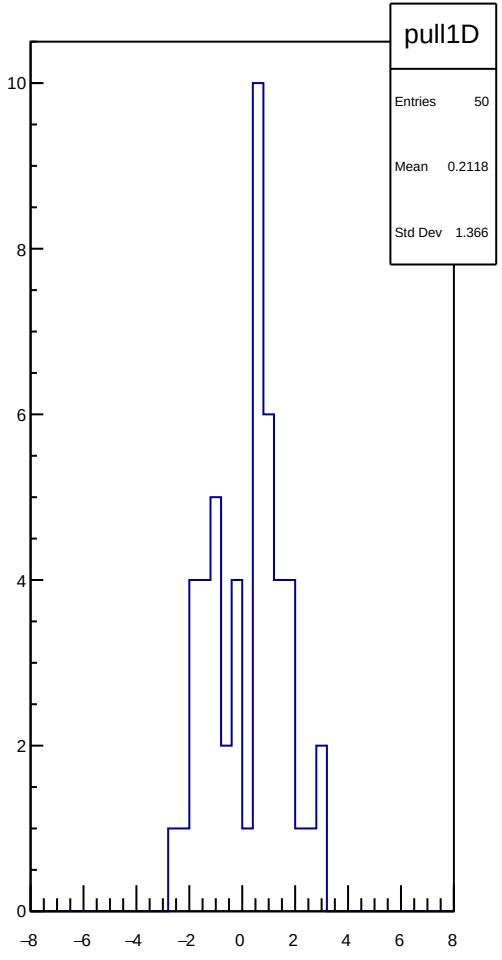

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 114.4 / 49
p0 35.58 ± 1.515
pull
Entries 50
Mean 13.13
Std Dev 18.91

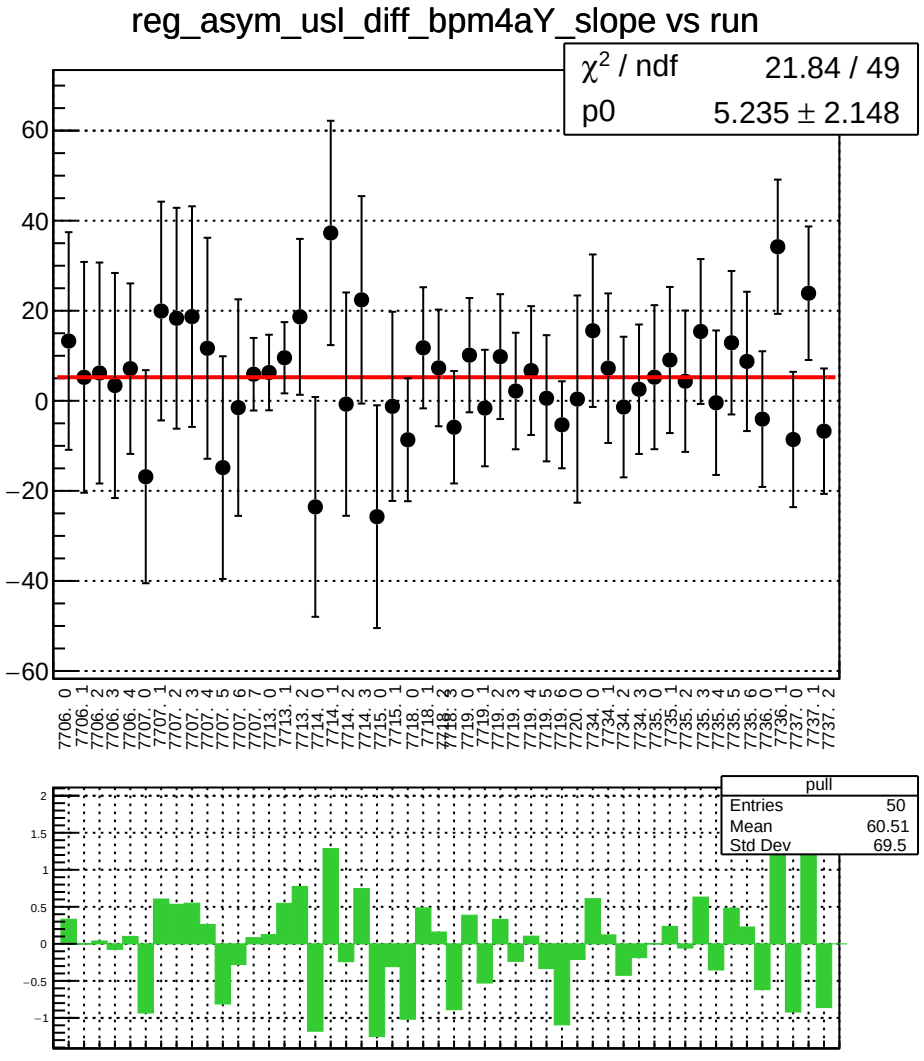

pull1D
Entries 50
Mean −0.4079
Std Dev 1.456

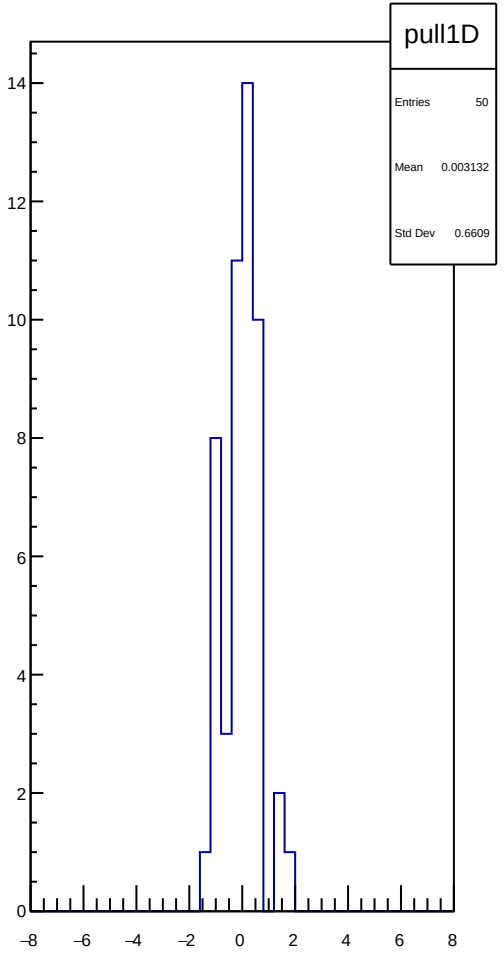

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 24.68 / 49
p0 −0.1962 ± 0.06001
pull
Entries 50
Mean 44.84
Std Dev 29.67

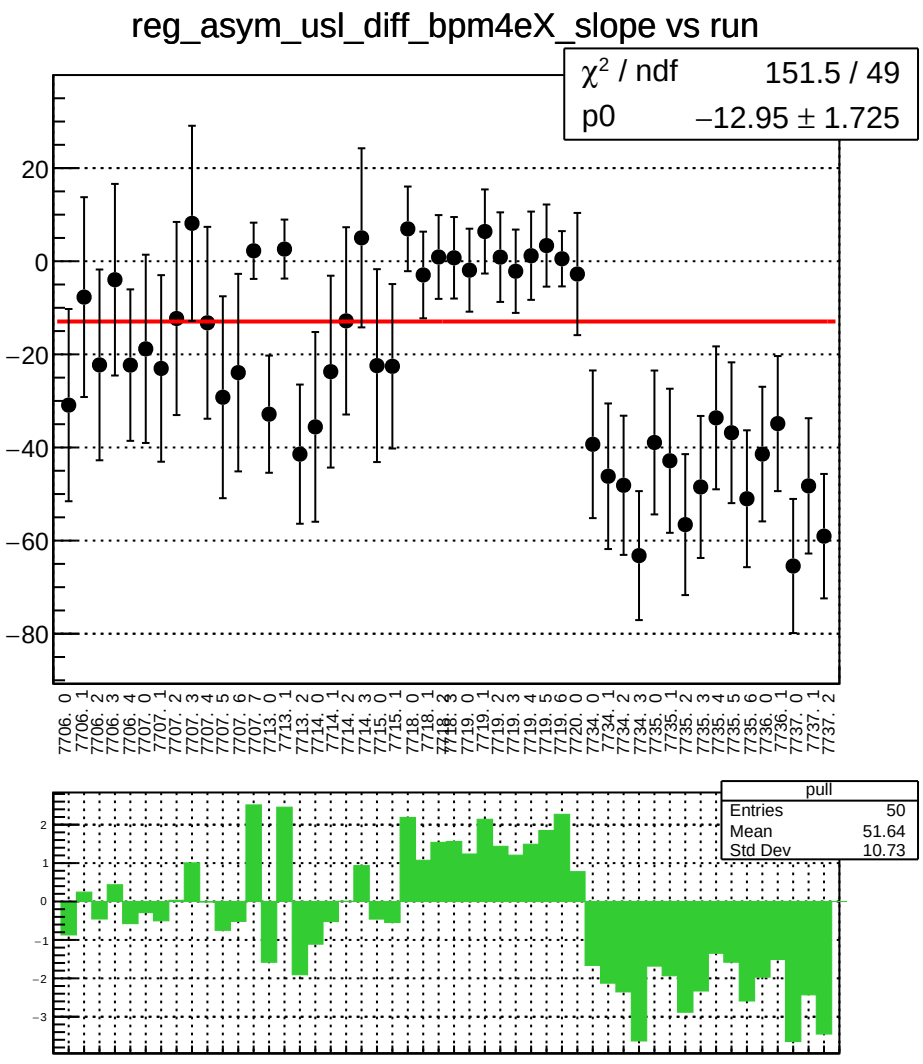

pull1D
Entries 50
Mean 0.09725
Std Dev 0.6959

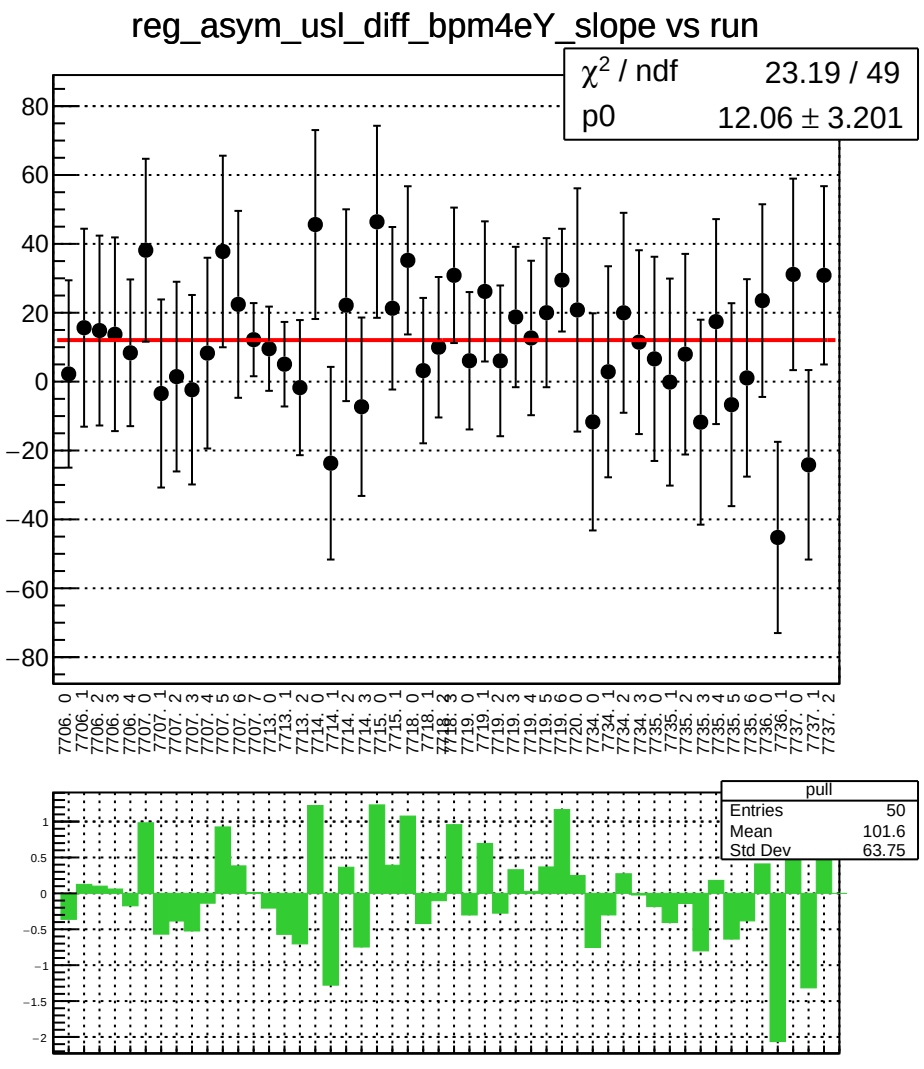

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 95.59 / 49
p0 −47.76 ± 1.967
pull
Entries 50
Mean 60.66
Std Dev 21.57

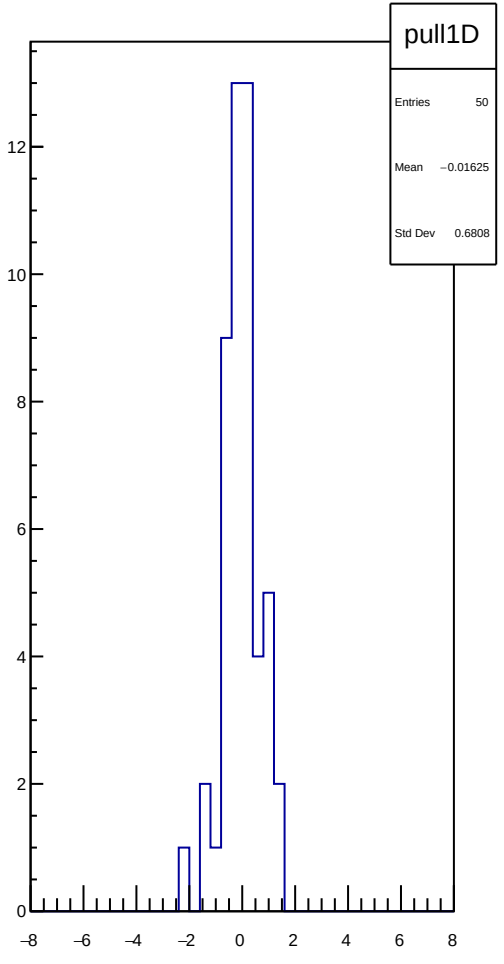

pull1D
Entries 50
Mean 0.2118
Std Dev 1.366

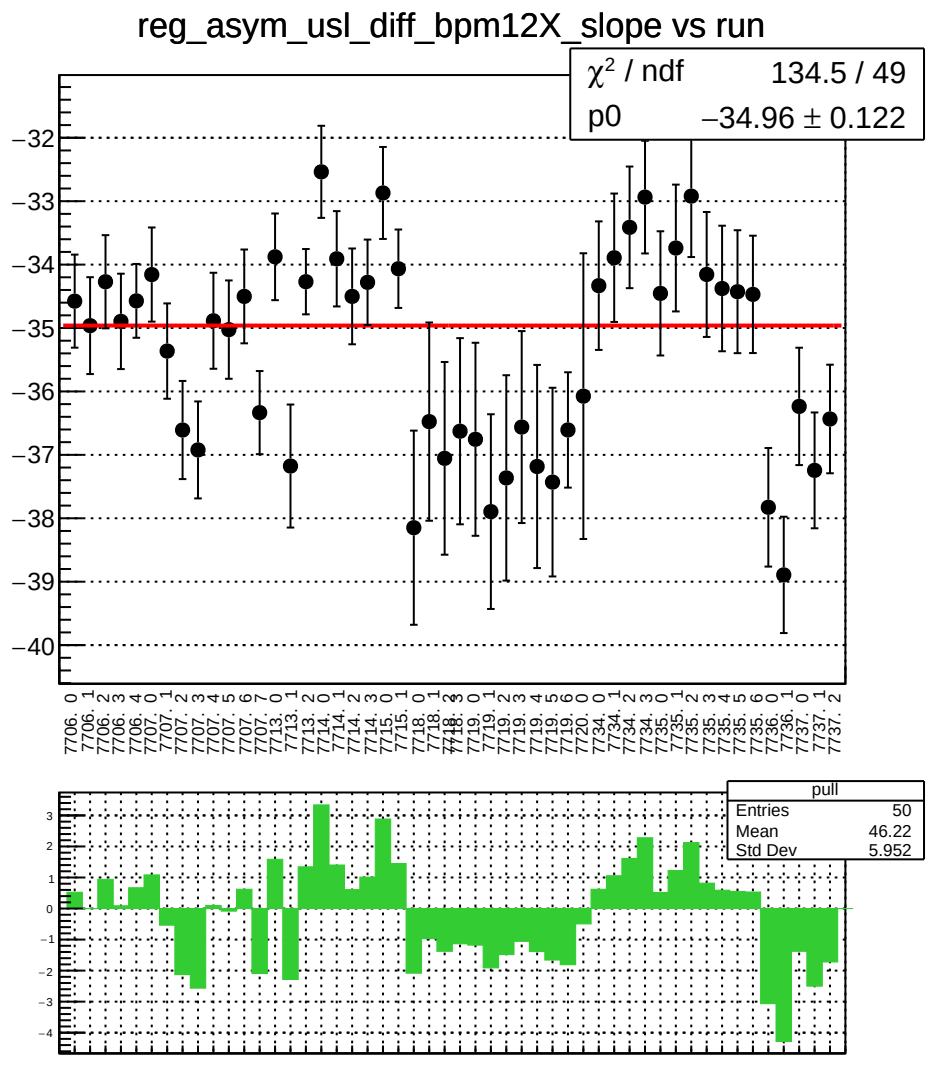

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 21.84 / 49
p0 5.235 ± 2.148
pull
Entries 50
Mean 60.51
Std Dev 69.5

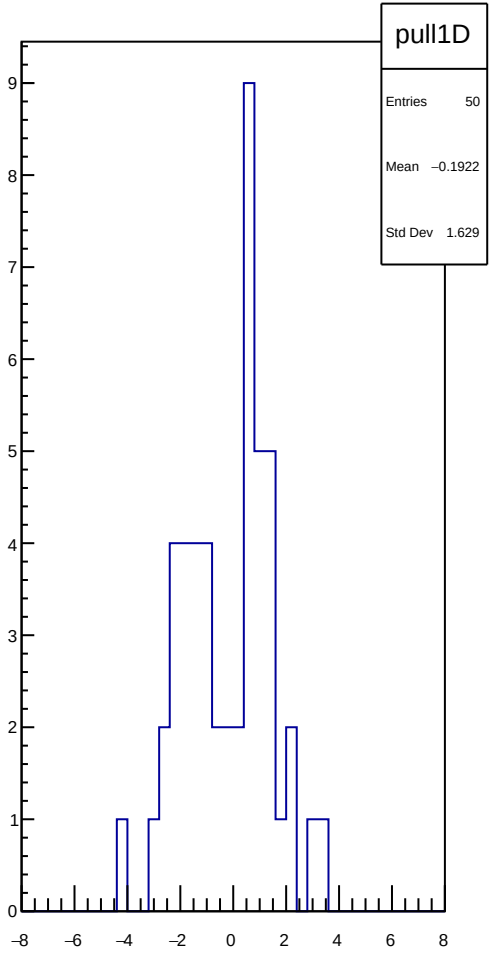

pull1D
Entries 50
Mean 0.003132
Std Dev 0.6609

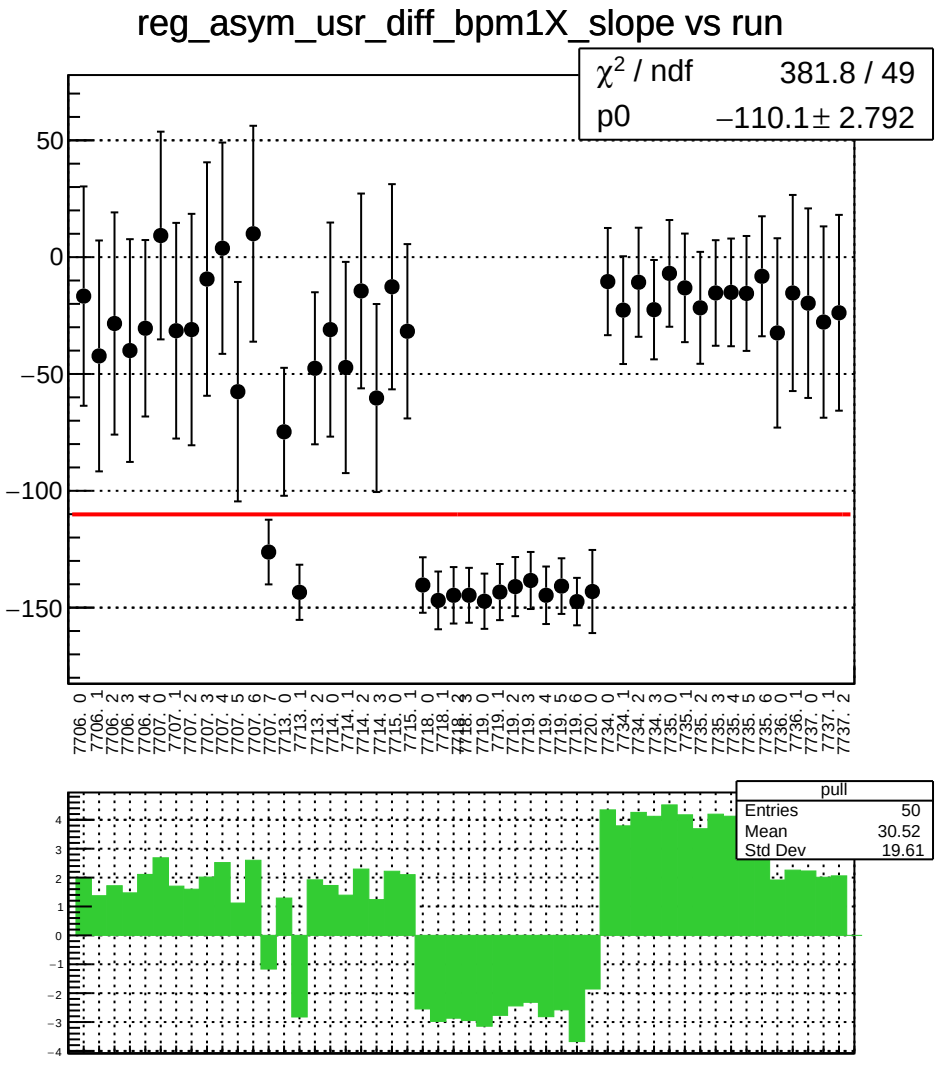

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 151.5 / 49
p0 −12.95 ± 1.725
20
0
−20
−40
−60
−80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 51.64
Std Dev 10.73
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.4163
Std Dev 1.69
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

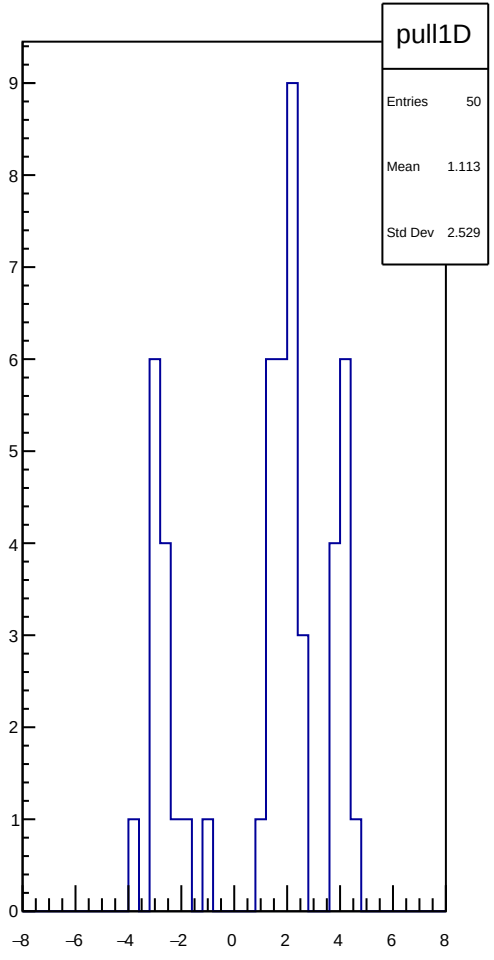

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 23.19 / 49
p0 12.06 ± 3.201
pull
Entries 50
Mean 101.6
Std Dev 63.75

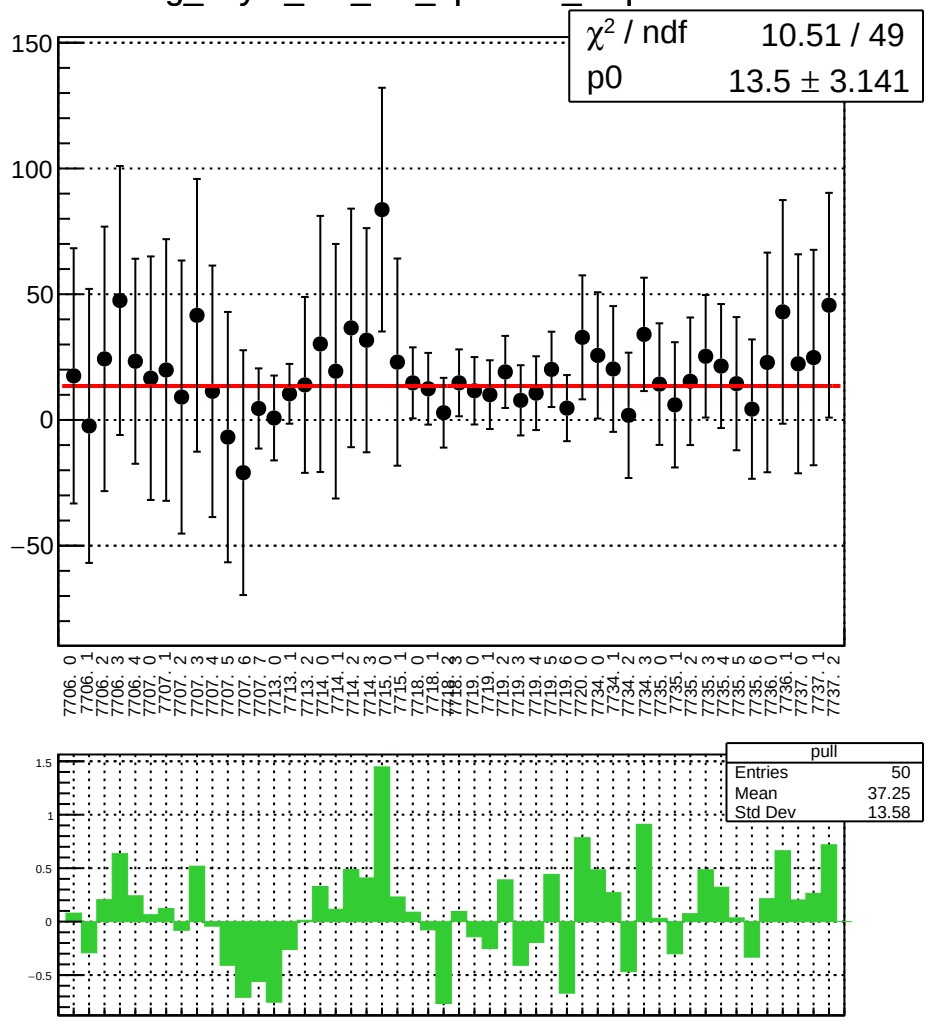

pull1D
Entries 50
Mean −0.01625
Std Dev 0.6808

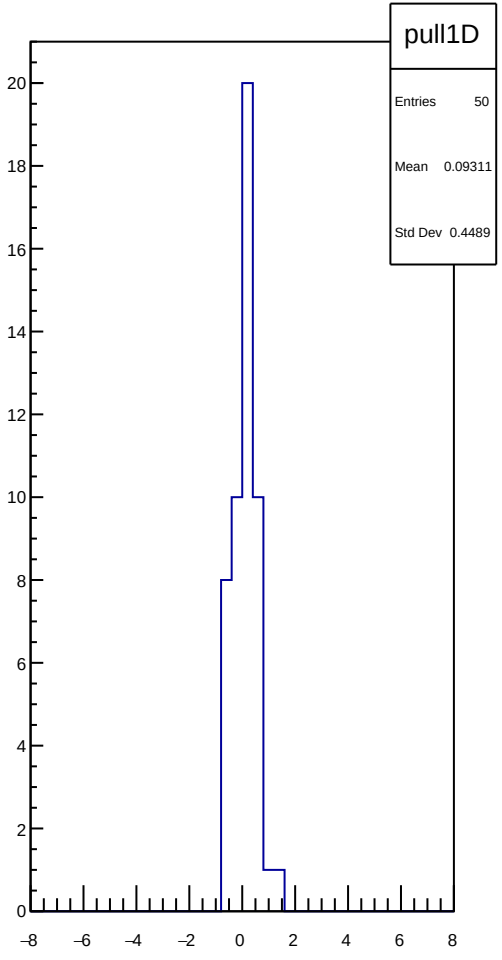

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 134.5 / 49
p0 −34.96 ± 0.122
pull
Entries 50
Mean 46.22
Std Dev 5.952

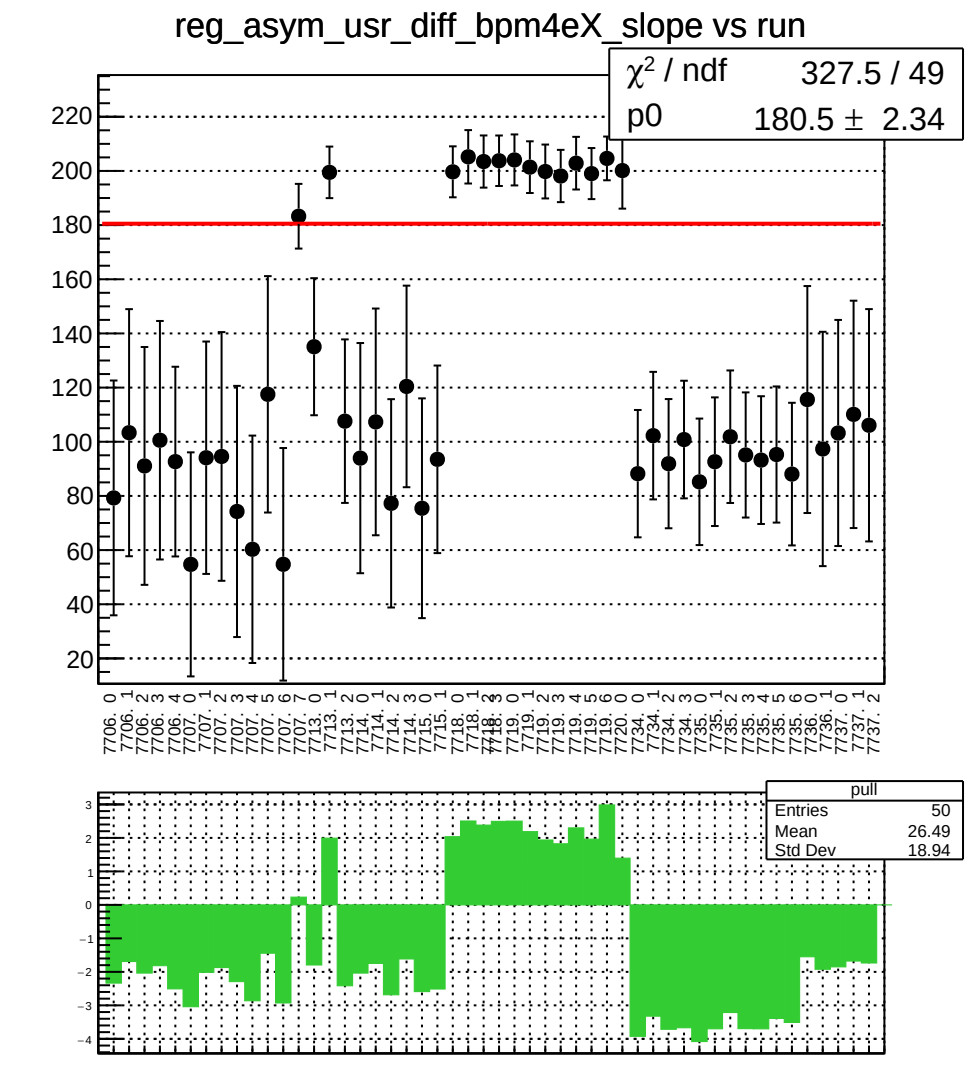

pull1D
Entries 50
Mean −0.1922
Std Dev 1.629

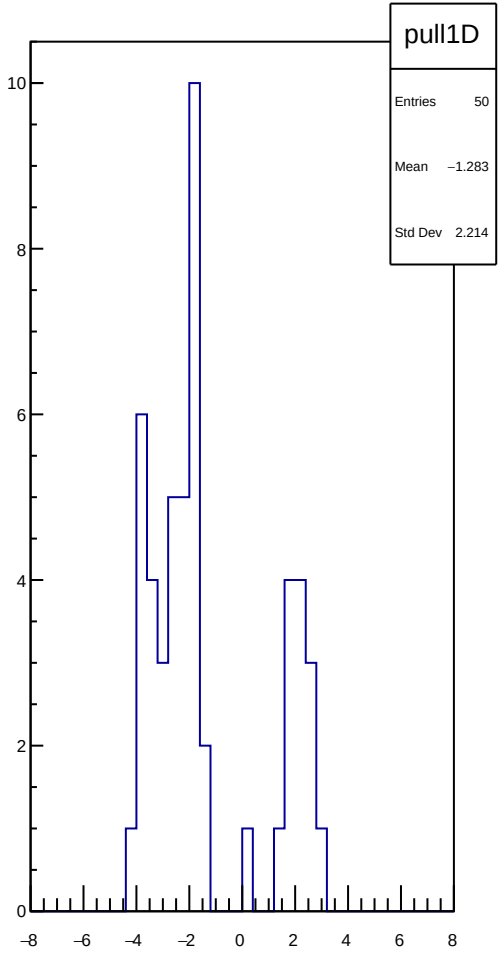

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 381.8 / 49
p0 −110.1± 2.792
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 30.52
Std Dev 19.61
4
3
2
1
0
−1
−2
−3
−4

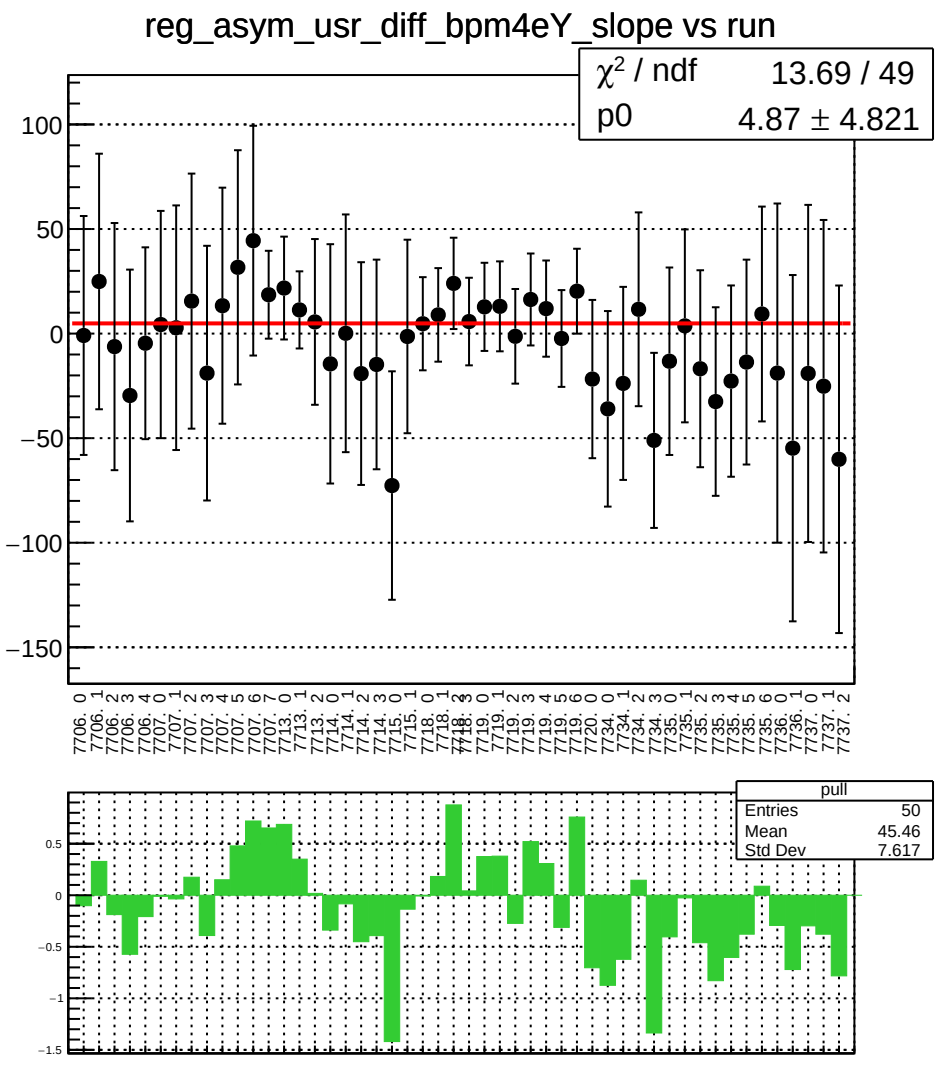

pull1D
Entries 50
Mean 1.113
Std Dev 2.529
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

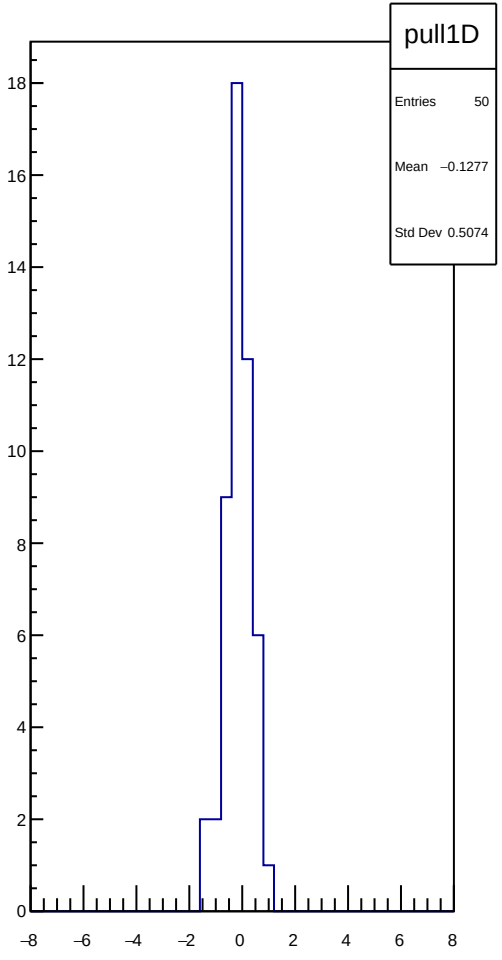

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 10.51 / 49
p0 13.5 ± 3.141
150
100
50
0
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 37.25
Std Dev 13.58
1.5
1
0.5
0
−0.5

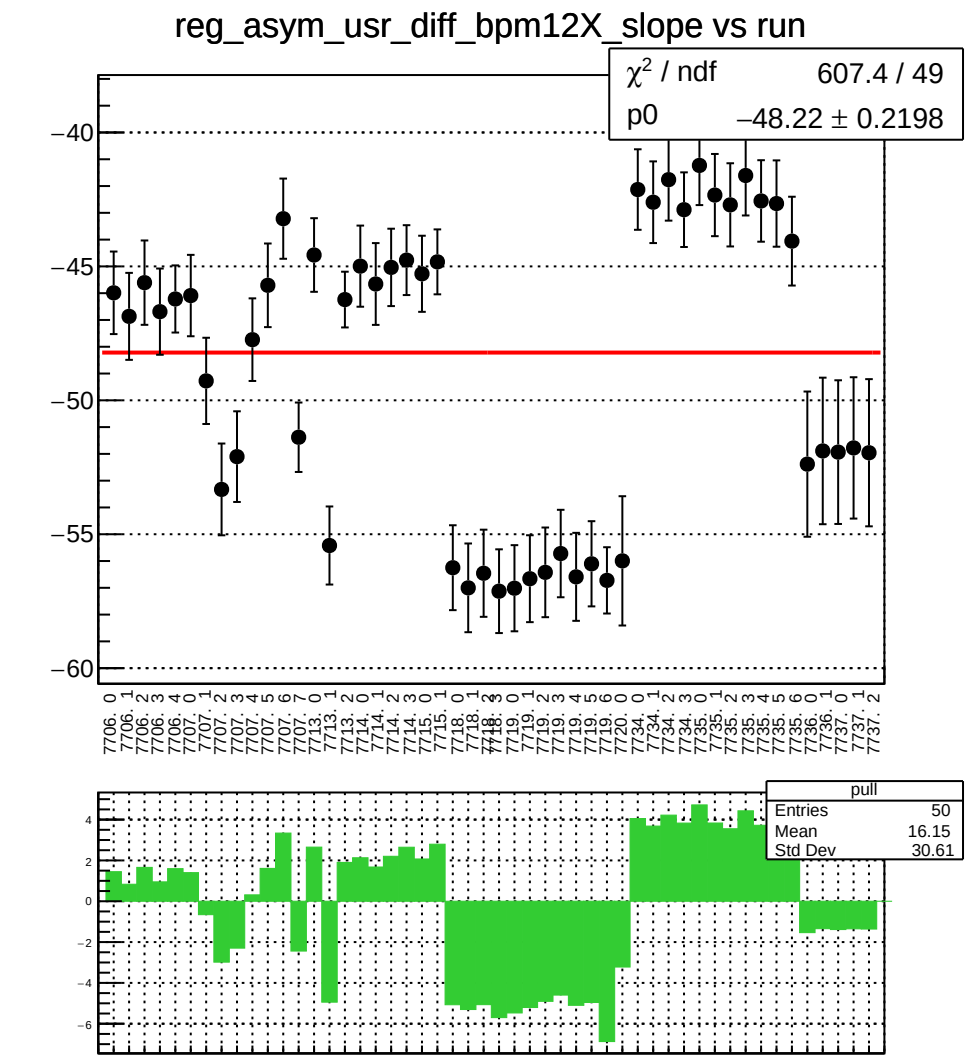

pull1D
Entries 50
Mean 0.09311
Std Dev 0.4489
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

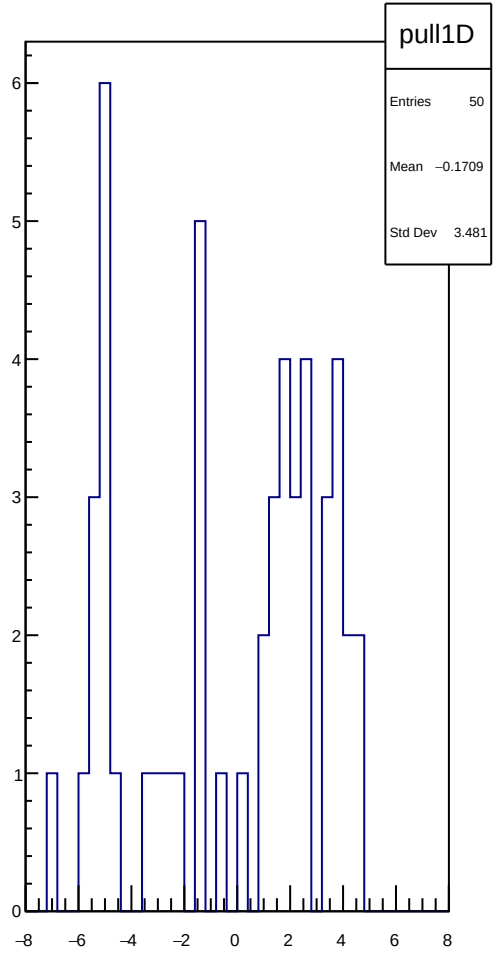

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 327.5 / 49
p0 180.5 ± 2.34
pull
Entries 50
Mean 26.49
Std Dev 18.94

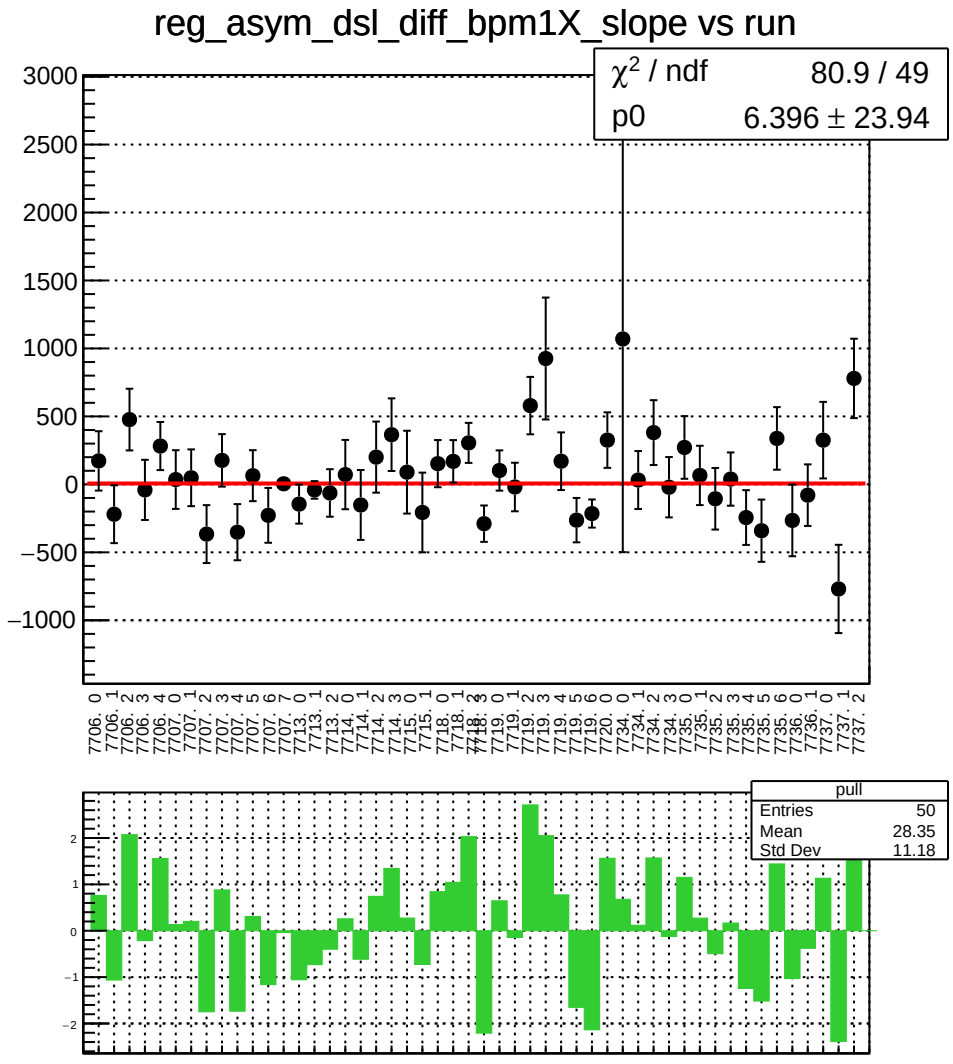

pull1D
Entries 50
Mean −1.283
Std Dev 2.214

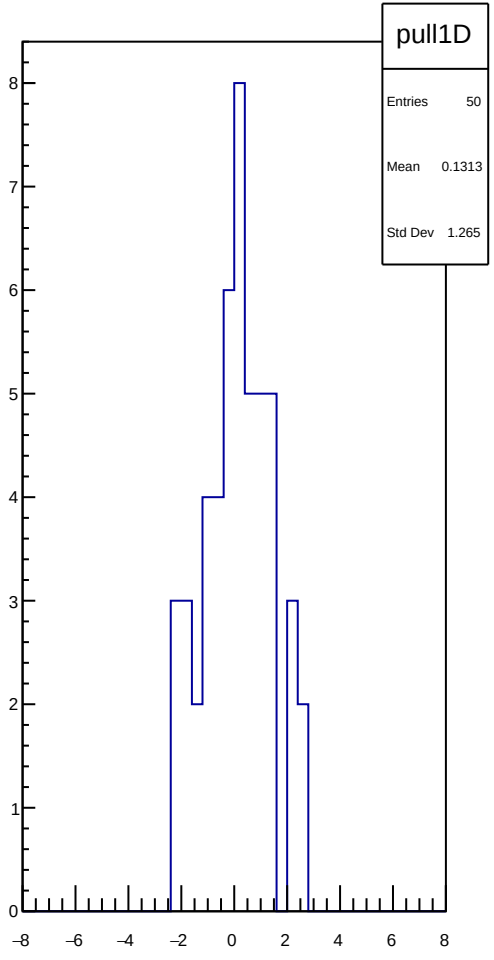

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.69 / 49
p0 4.87 ± 4.821
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 45.46
Std Dev 7.617
0.5
0
−0.5
−1
−1.5

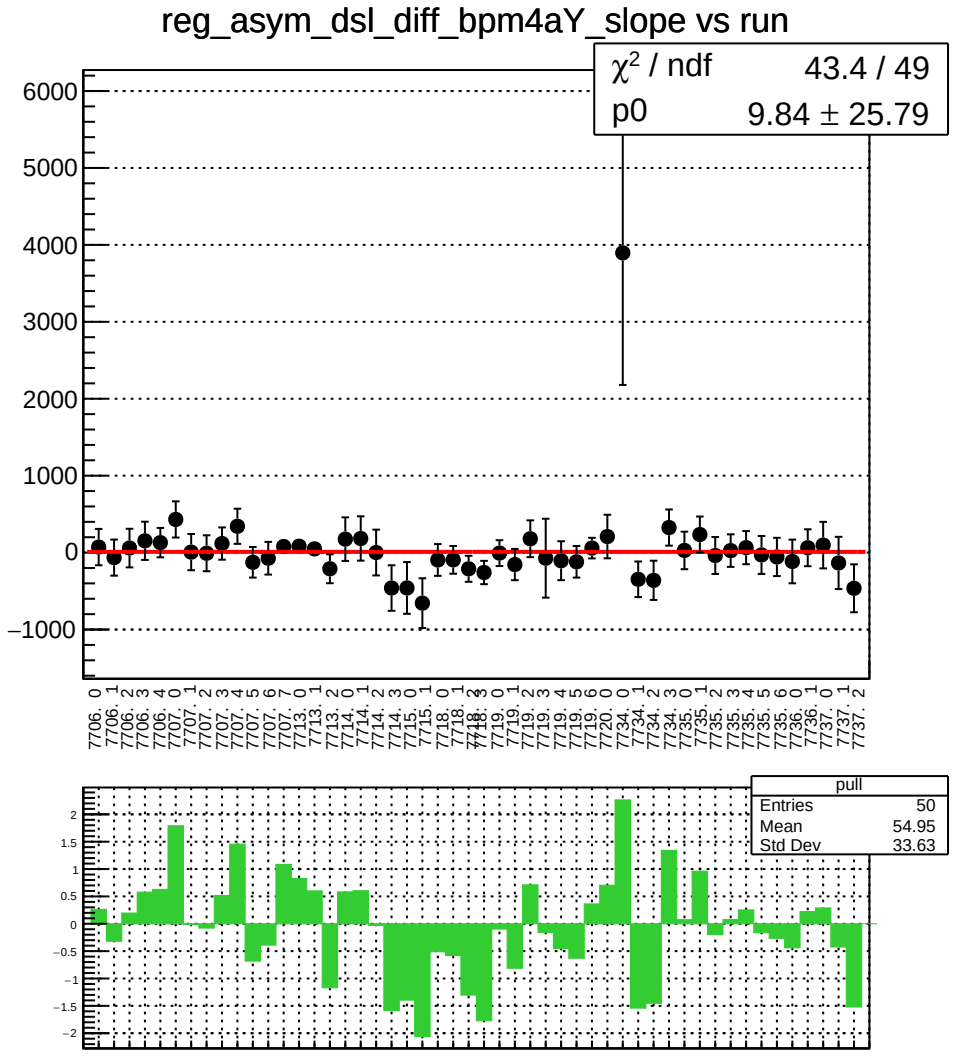

pull1D
Entries 50
Mean −0.1277
Std Dev 0.5074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

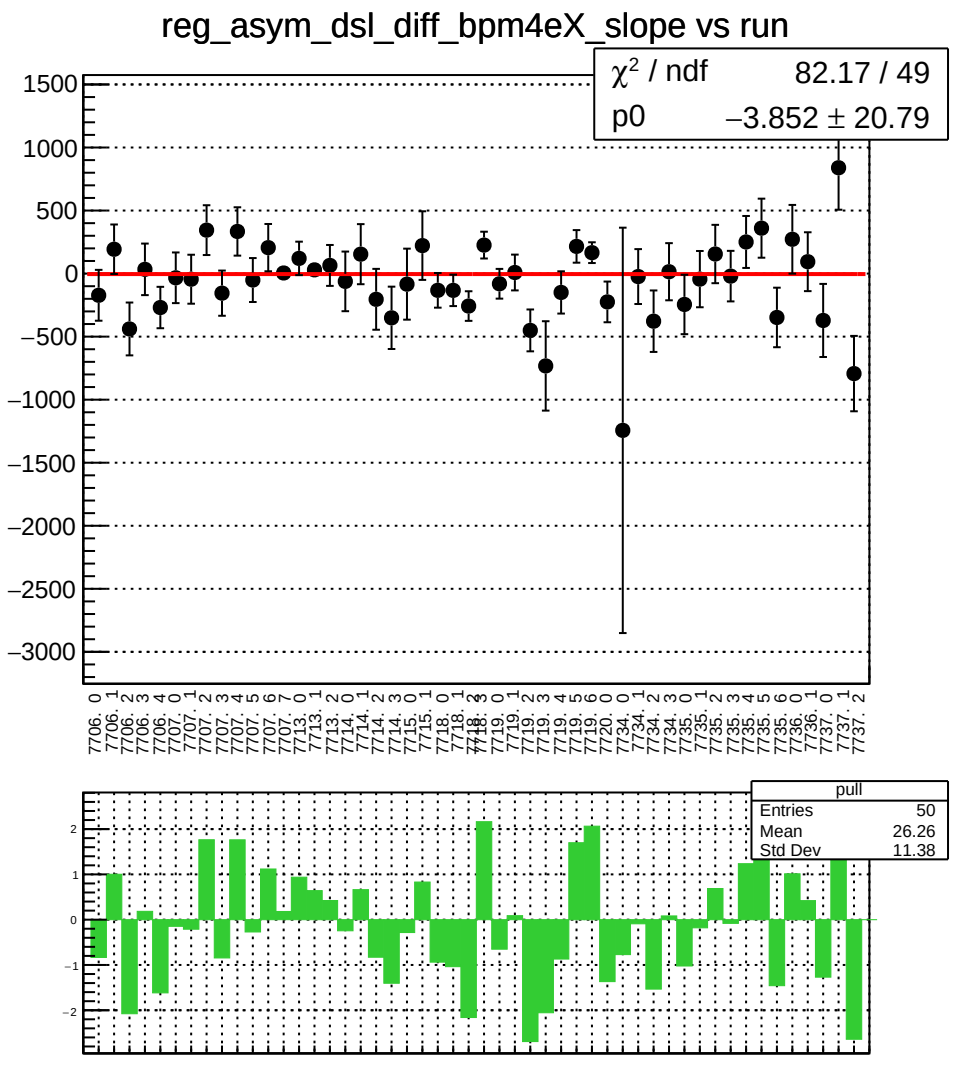

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 607.4 / 49
p0 −48.22 ± 0.2198
−40
−45
−50
−55
−60
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 16.15
Std Dev 30.61
4
2
0
−2
−4
−6

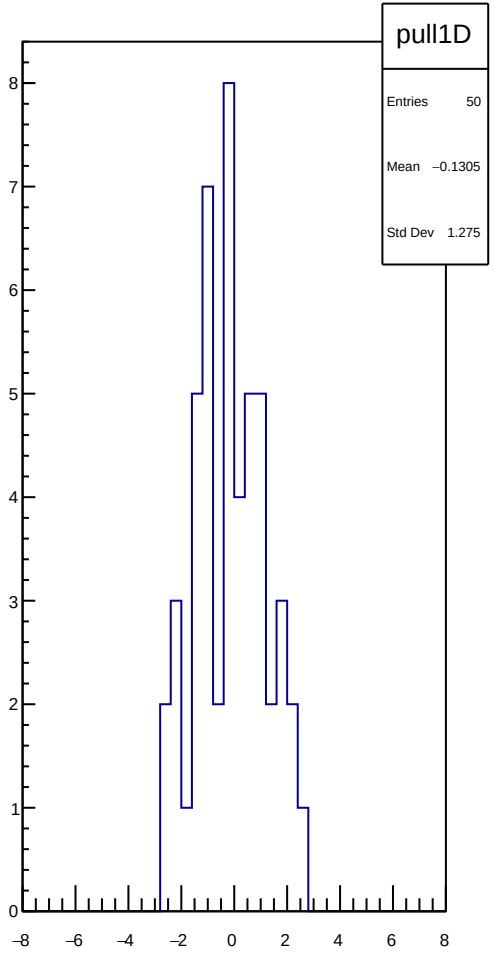

pull1D
Entries 50
Mean −0.1709
Std Dev 3.481
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

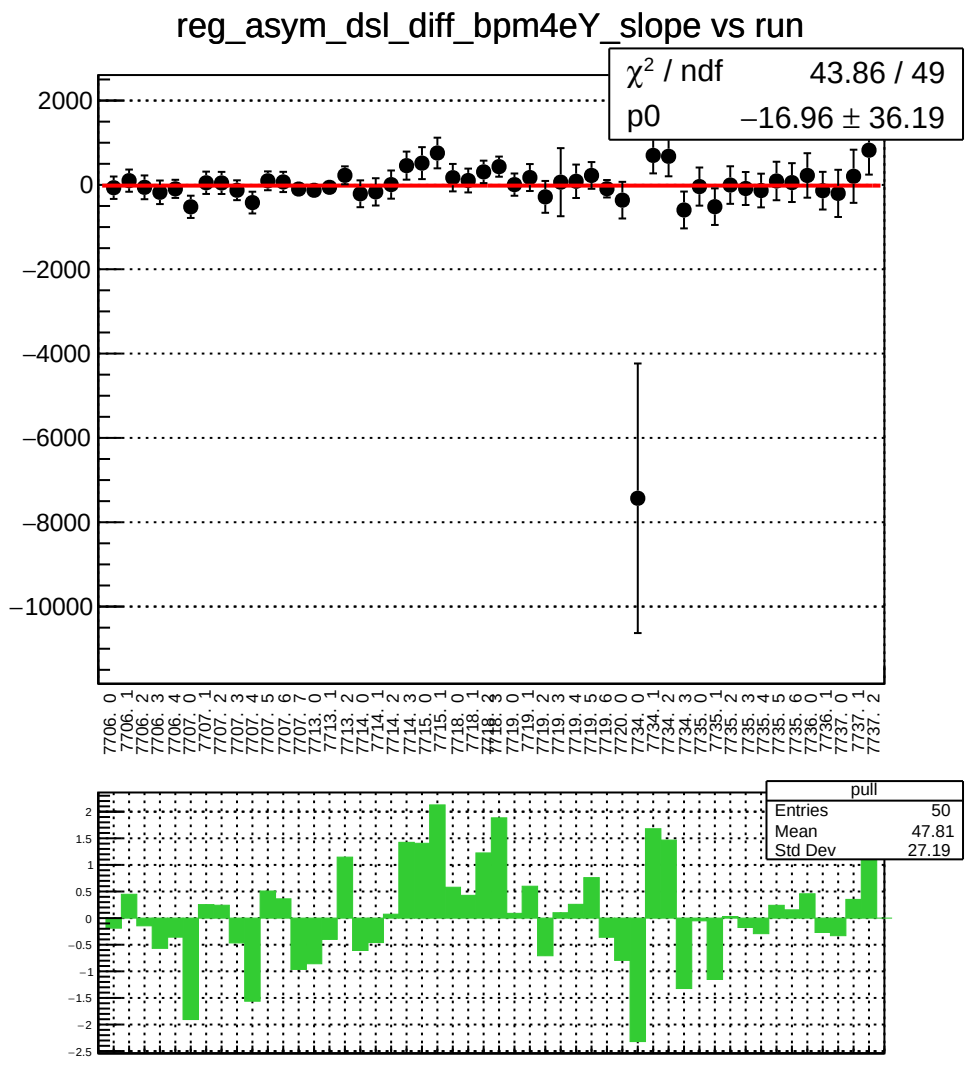

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 80.9 / 49
p0 6.396 ± 23.94
pull
Entries 50
Mean 28.35
Std Dev 11.18

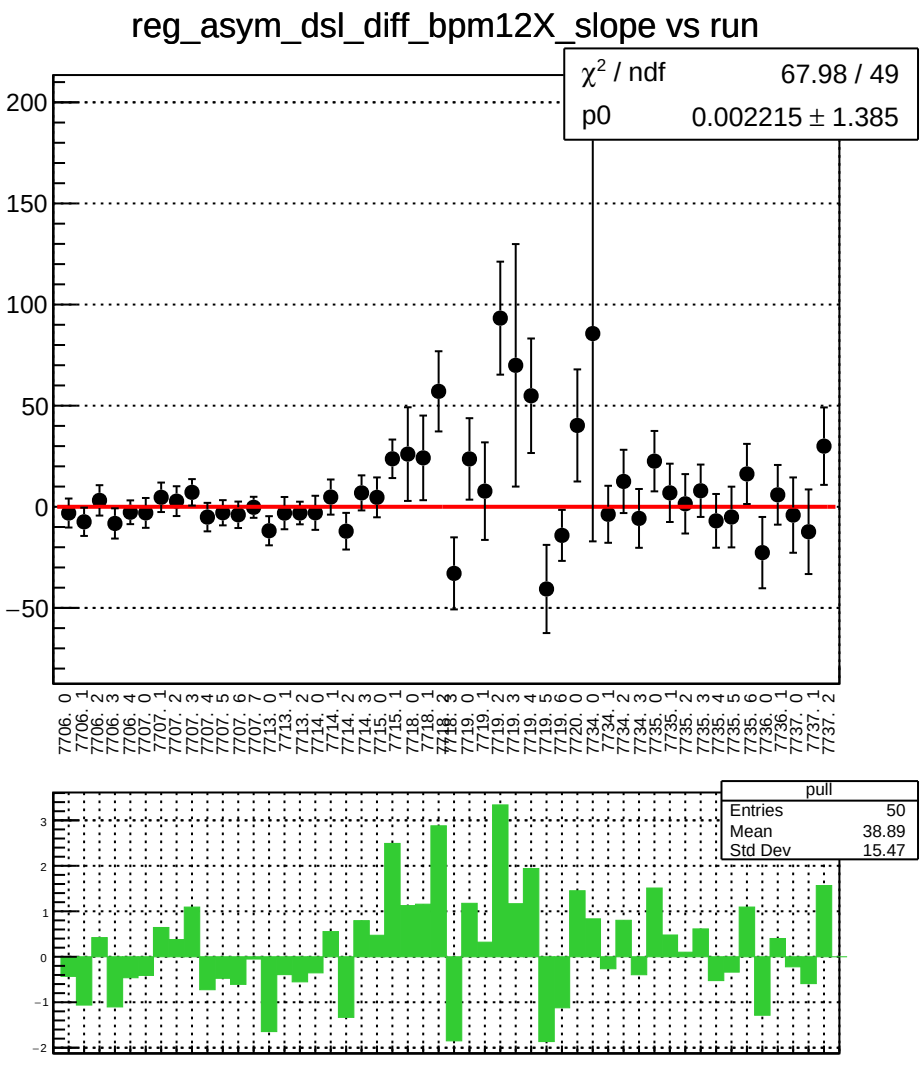

pull1D
Entries 50
Mean 0.1313
Std Dev 1.265

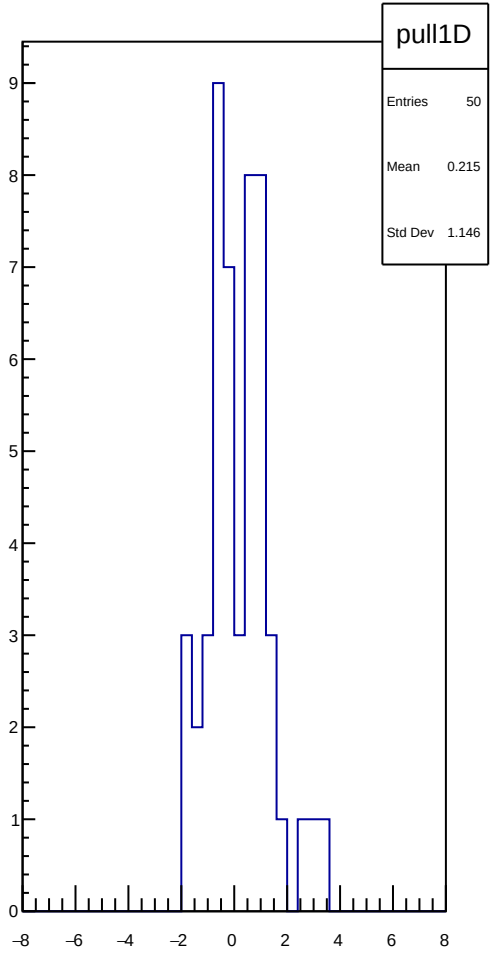

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 43.4 / 49
p0 9.84 ± 25.79
6000
5000
4000
3000
2000
1000
0
−1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 54.95
Std Dev 33.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.0733
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

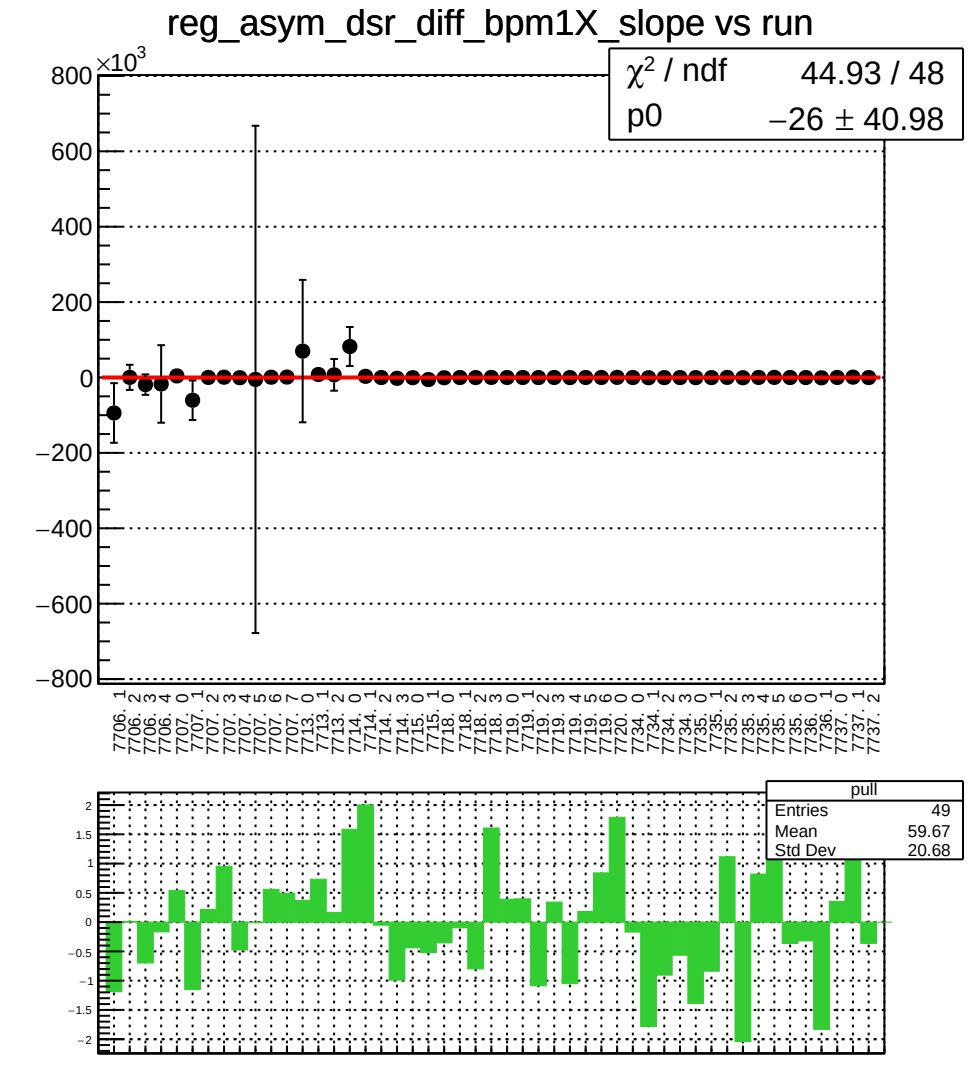

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 82.17 / 49
p0 −3.852 ± 20.79
pull
Entries 50
Mean 26.26
Std Dev 11.38

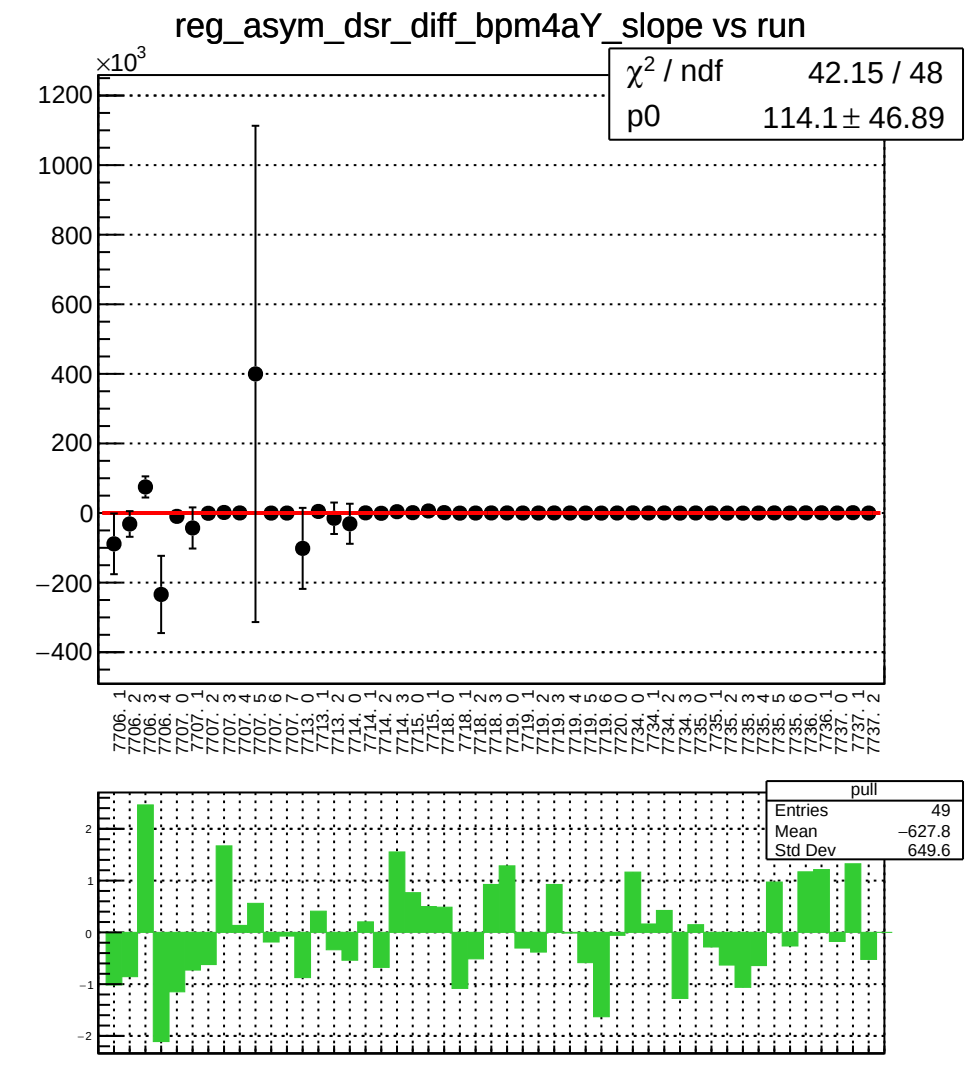

pull1D
Entries 50
Mean −0.1305
Std Dev 1.275

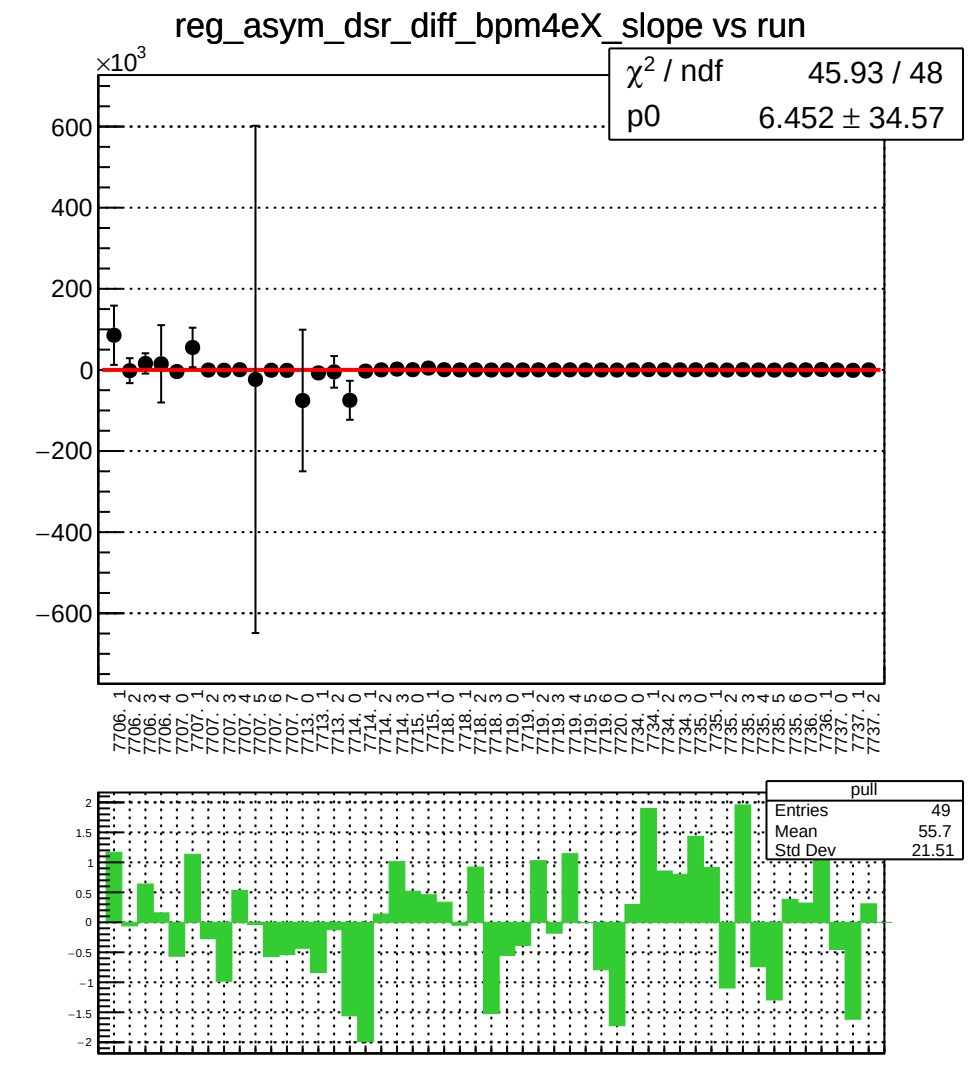

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 43.86 / 49
p0 −16.96 ± 36.19
2000
0
−2000
−4000
−6000
−8000
−10000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 47.81
Std Dev 27.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean 0.06987
Std Dev 0.9339
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

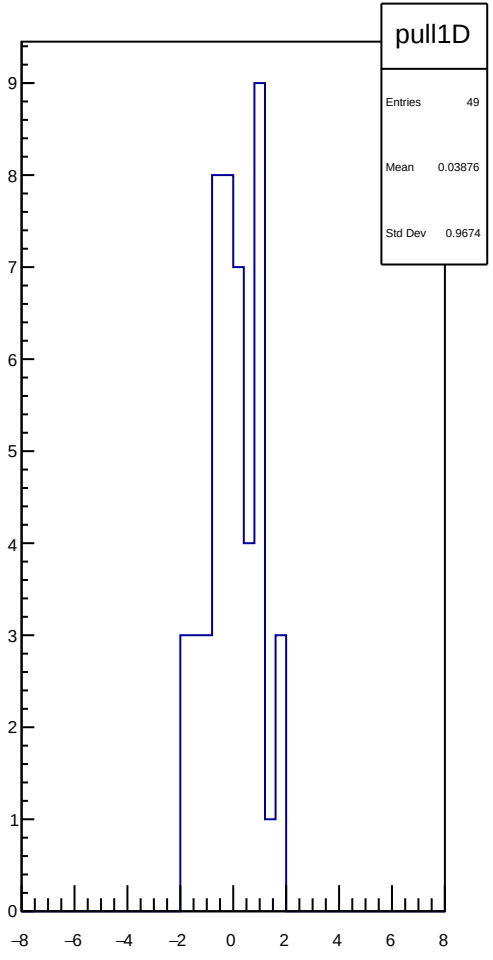

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 67.98 / 49
p0 0.002215 ± 1.385
200
150
100
50
0
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 38.89
Std Dev 15.47
3
2
1
0
−1
−2

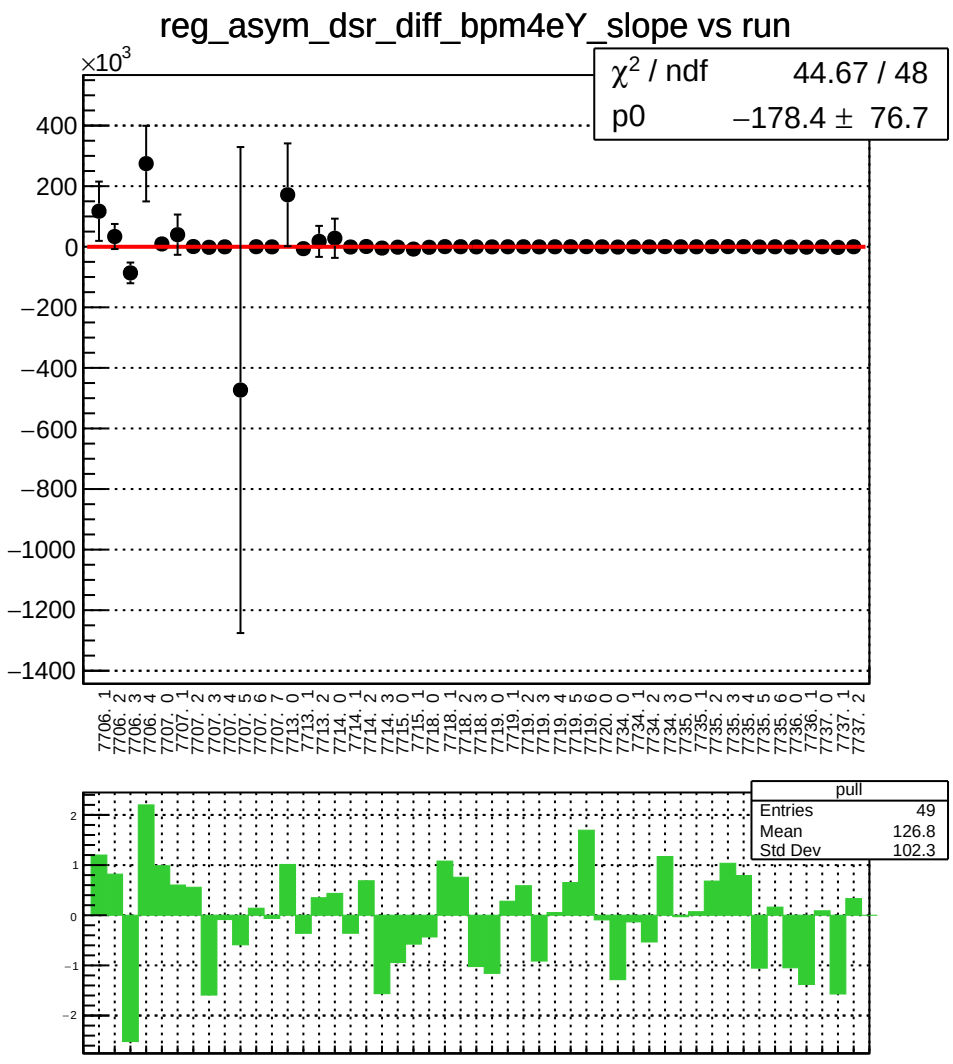

pull1D
Entries 50
Mean 0.215
Std Dev 1.146
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

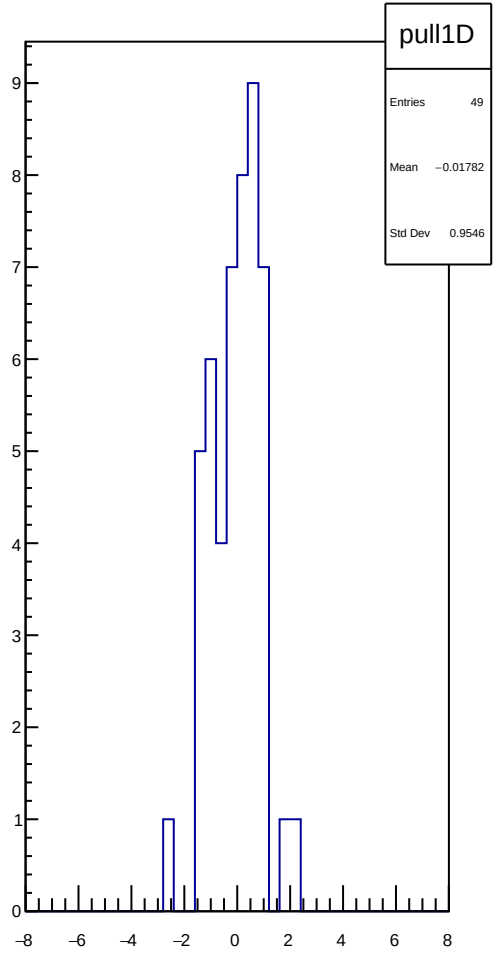

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 44.93 / 48
p0 −26 ± 40.98
×10³
800
600
400
200
0
−200
−400
−600
−800
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 49
Mean 59.67
Std Dev 20.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 49
Mean −0.02705
Std Dev 0.9572
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

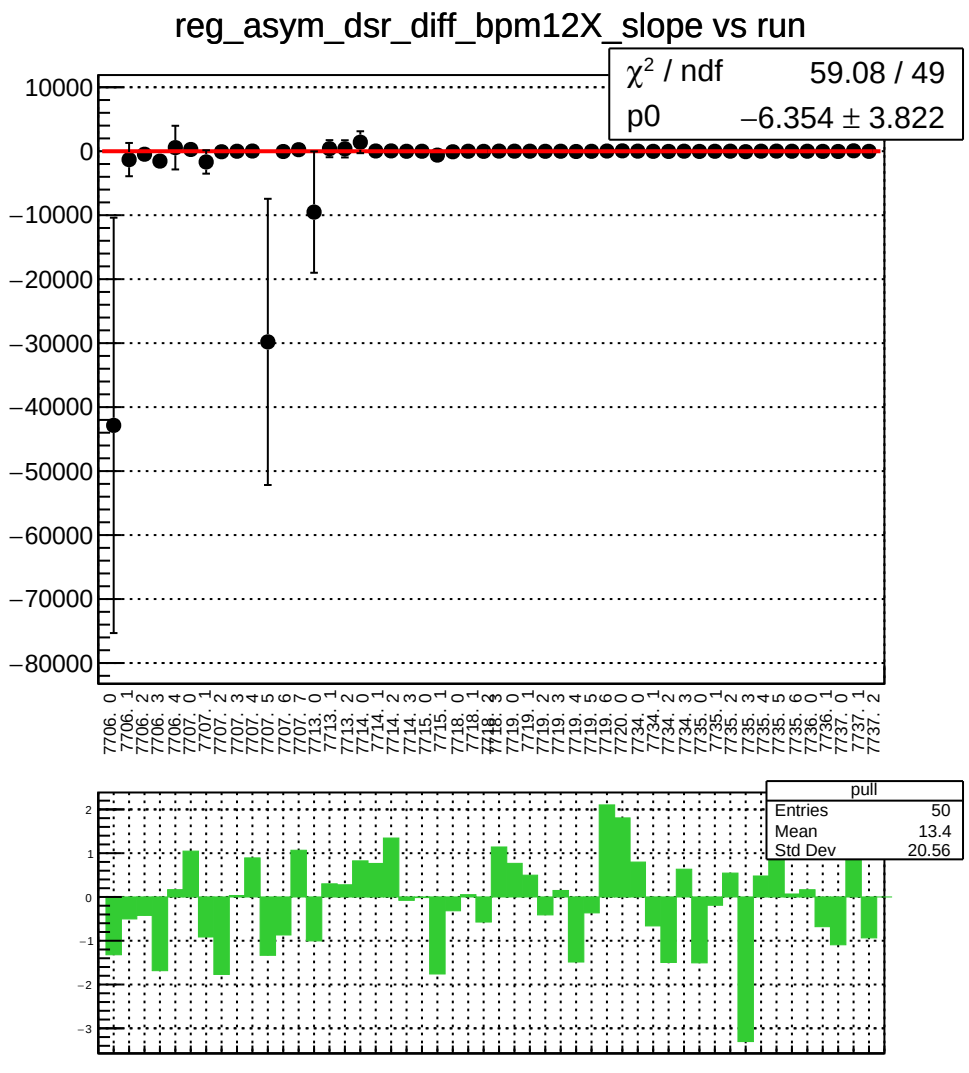

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 42.15 / 48
p0 114.1 ± 46.89
×10³
1200
1000
800
600
400
200
0
−200
−400
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 49
Mean −627.8
Std Dev 649.6
2
1
0
−1
−2
pull1D
Entries 49
Mean −0.002359
Std Dev 0.9275
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

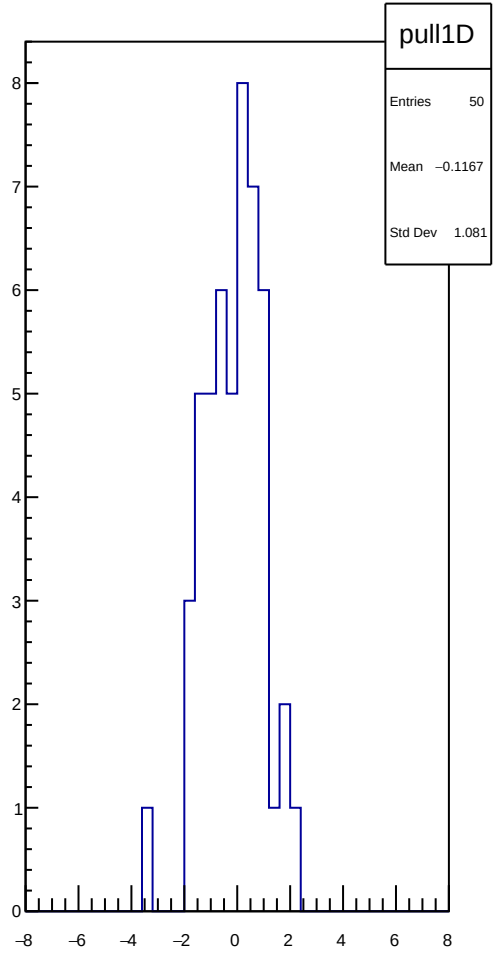

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 45.93 / 48
p0 6.452 ± 34.57
600
400
200
0
−200
−400
−600
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 49
Mean 55.7
Std Dev 21.51
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

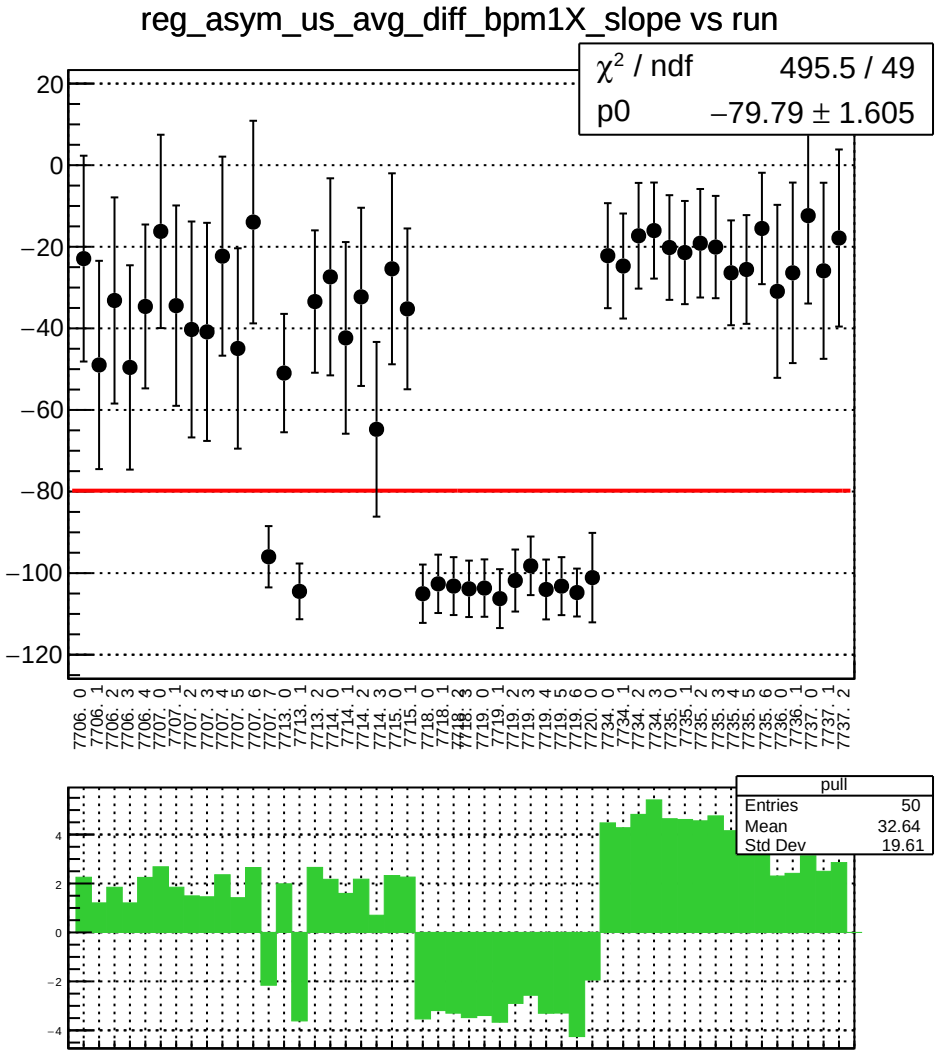

pull1D
Entries 49
Mean 0.03876
Std Dev 0.9674
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

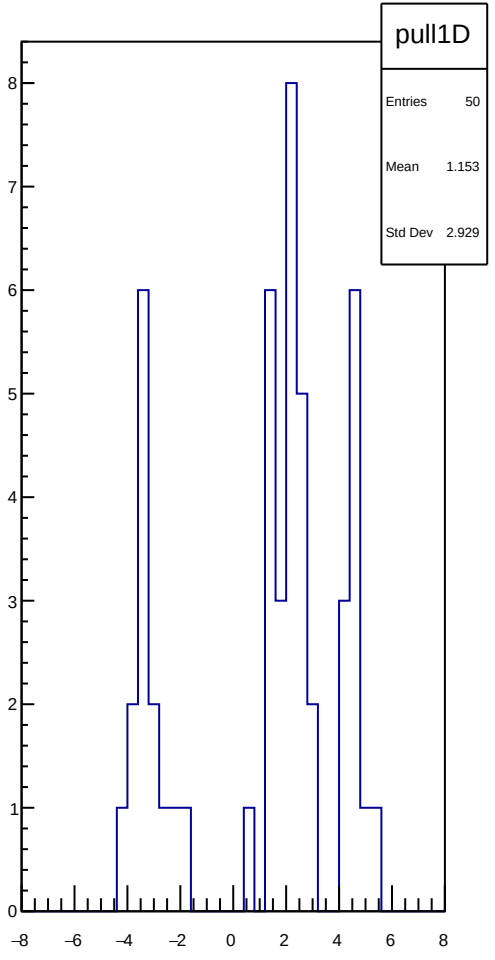

reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 44.67 / 48
p0 −178.4 ± 76.7
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 49
Mean 126.8
Std Dev 102.3
2
1
0
−1
−2

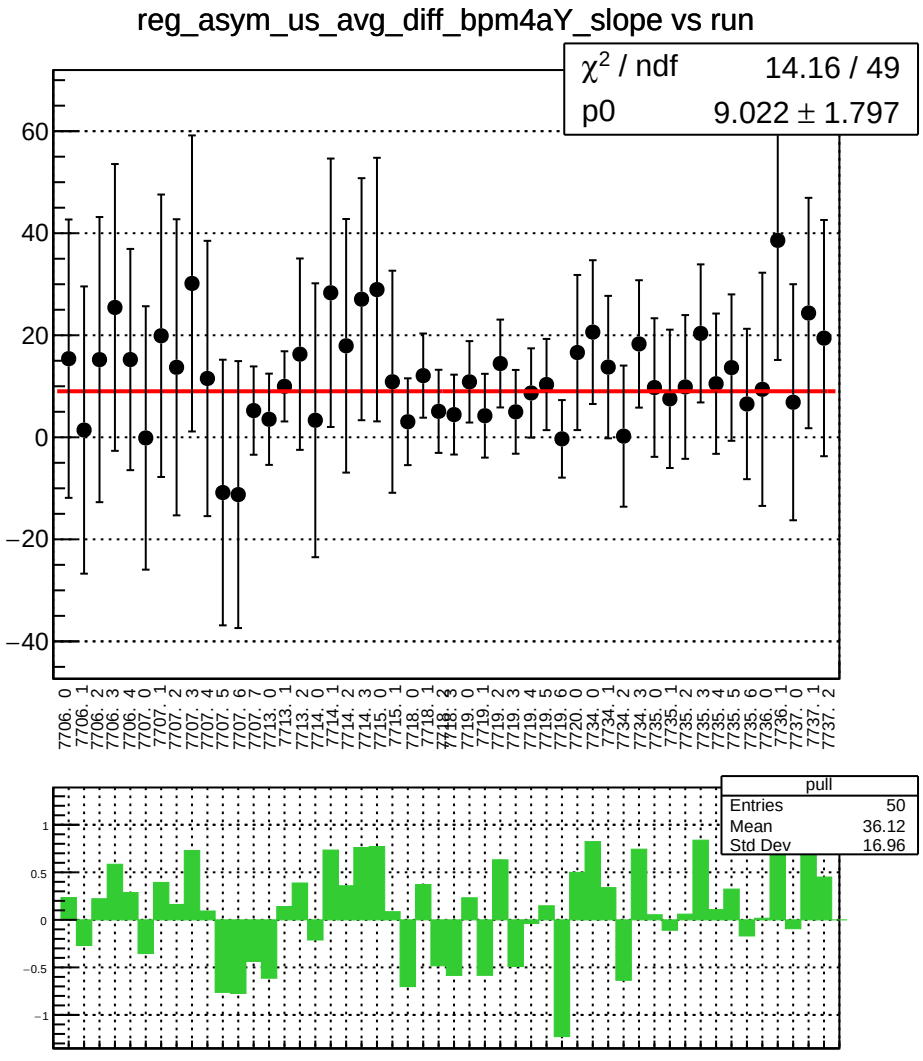

pull1D
Entries 49
Mean −0.01782
Std Dev 0.9546
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

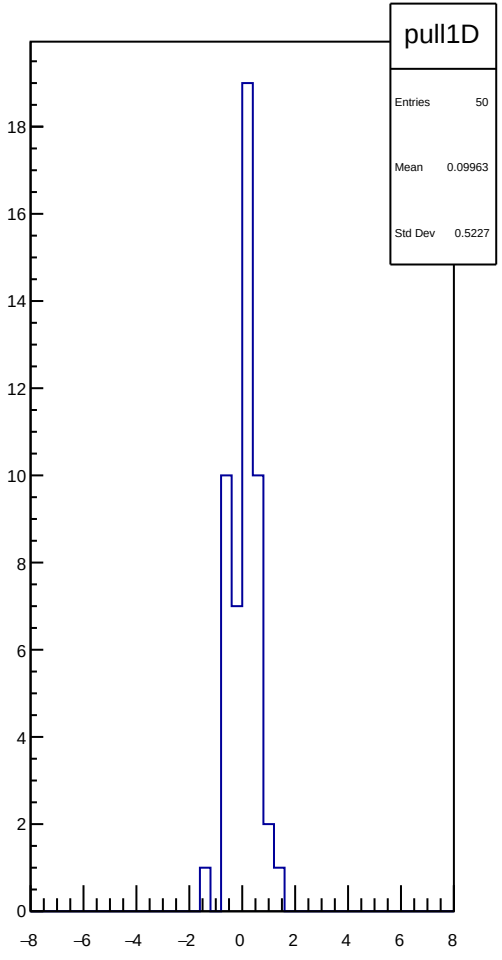

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 59.08 / 49
p0 −6.354 ± 3.822
pull
Entries 50
Mean 13.4
Std Dev 20.56

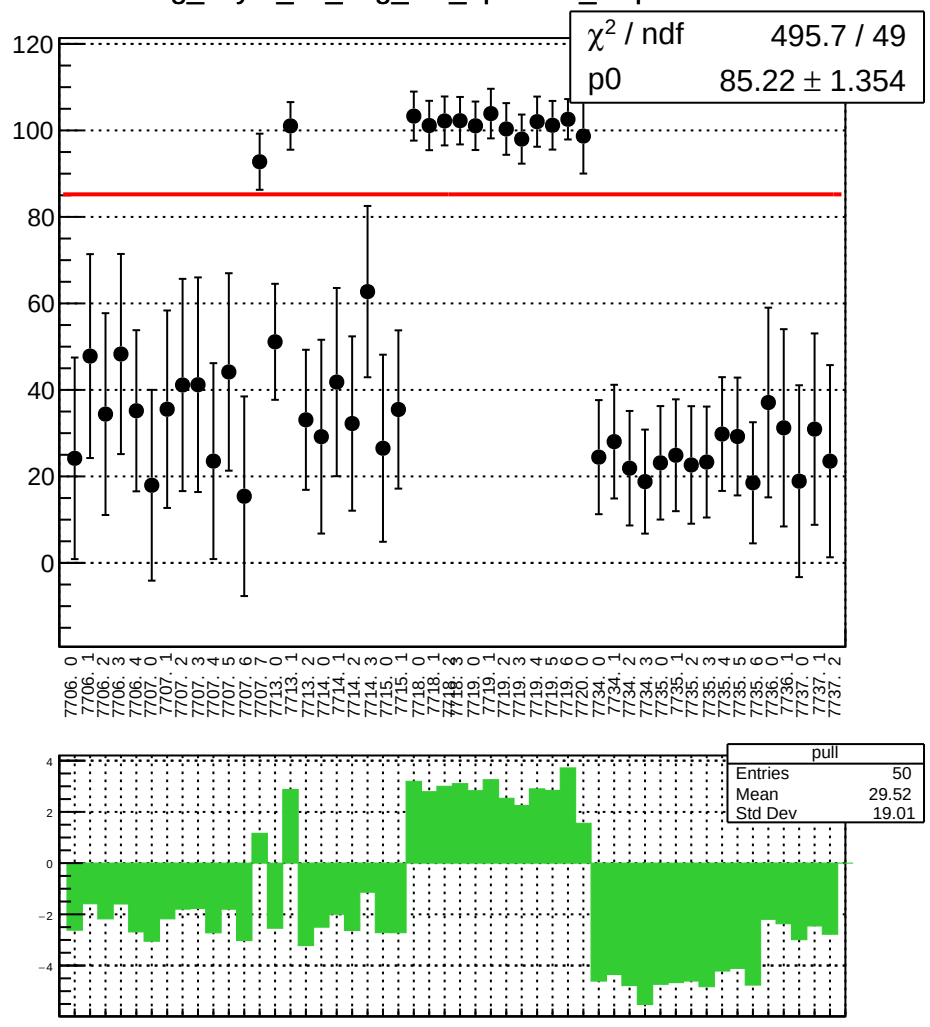

pull1D
Entries 50
Mean −0.1167
Std Dev 1.081

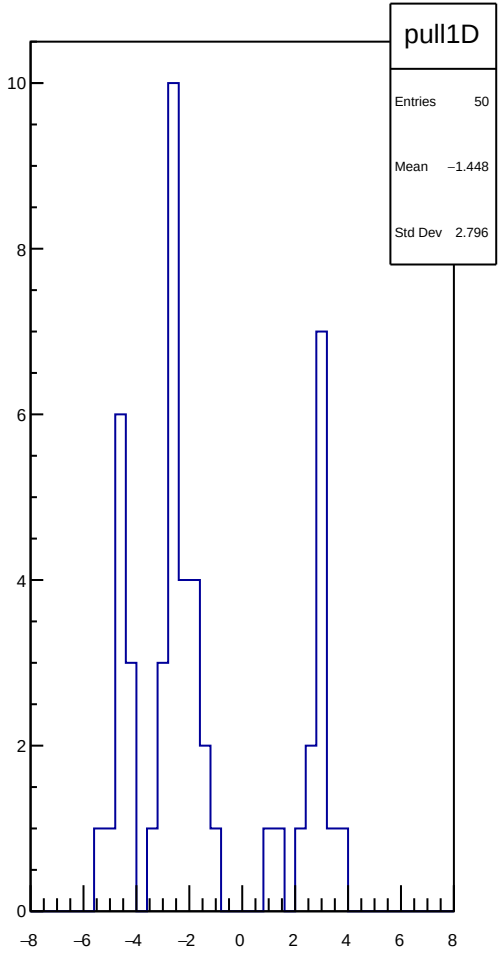

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 495.5 / 49
p0 −79.79 ± 1.605
pull
Entries 50
Mean 32.64
Std Dev 19.61

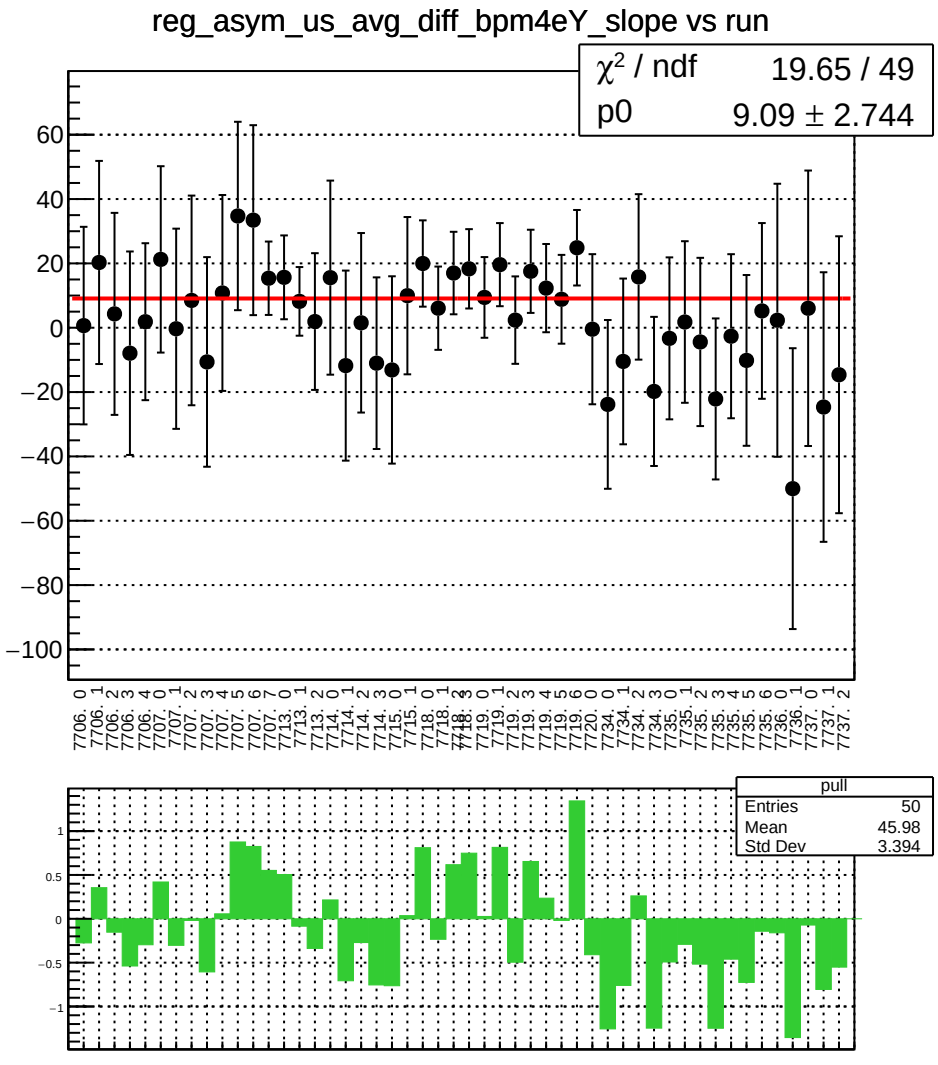

pull1D
Entries 50
Mean 1.153
Std Dev 2.929

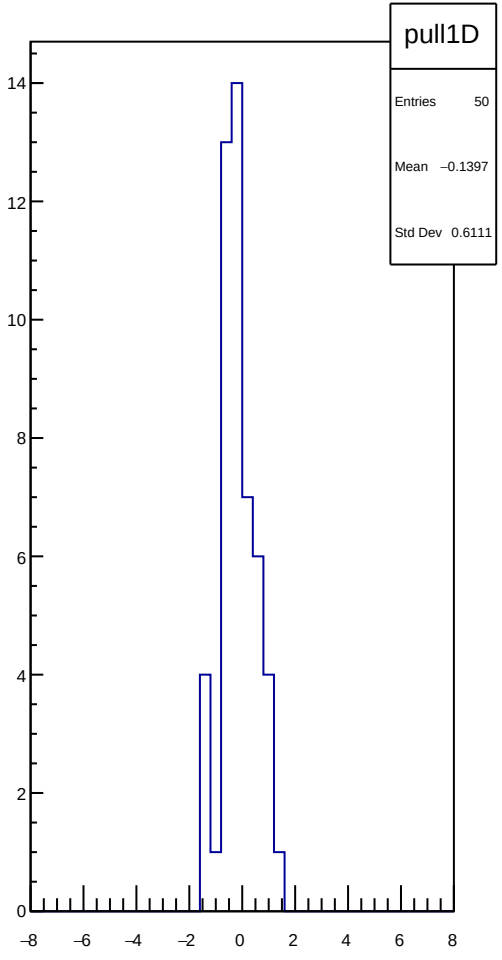

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.16 / 49
p0 9.022 ± 1.797
pull
Entries 50
Mean 36.12
Std Dev 16.96

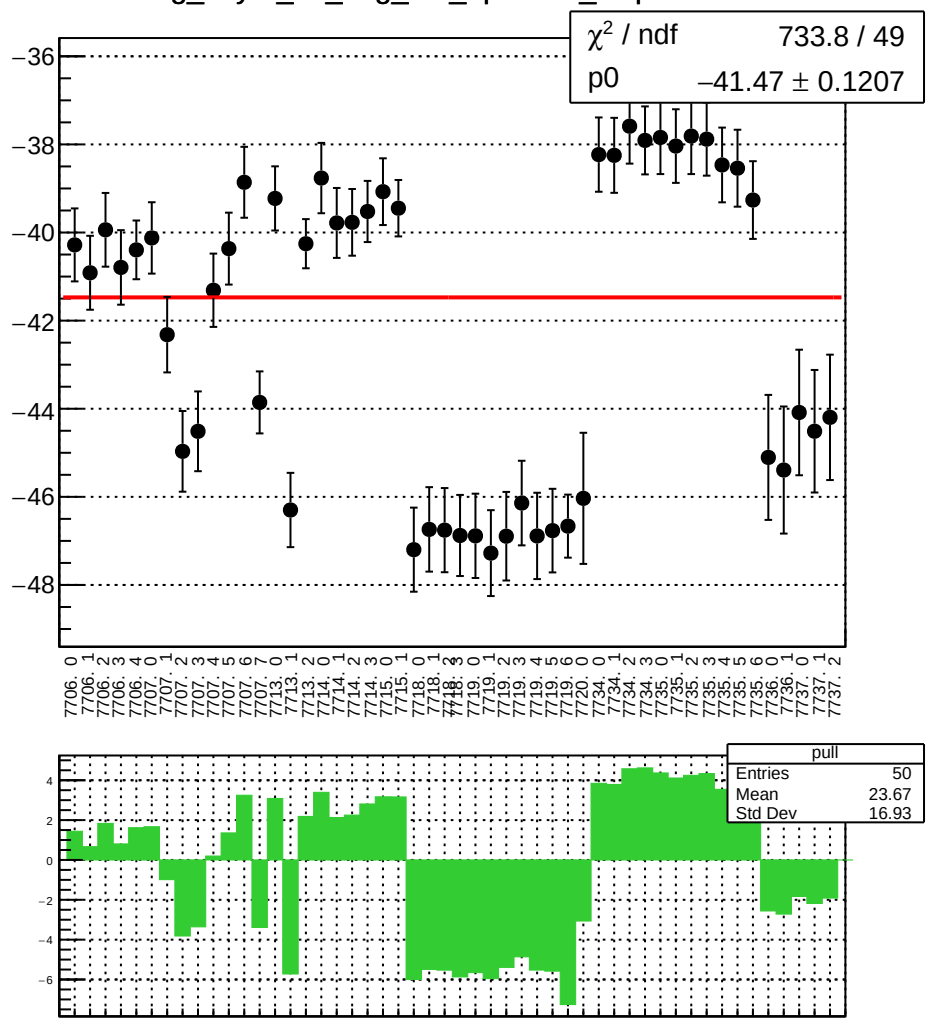

pull1D
Entries 50
Mean 0.09963
Std Dev 0.5227

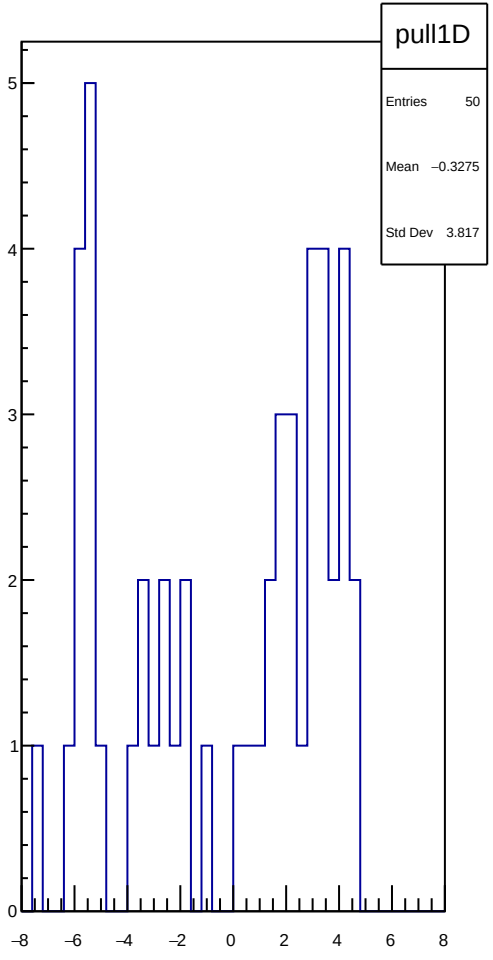

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 495.7 / 49
p0 85.22 ± 1.354
pull
Entries 50
Mean 29.52
Std Dev 19.01

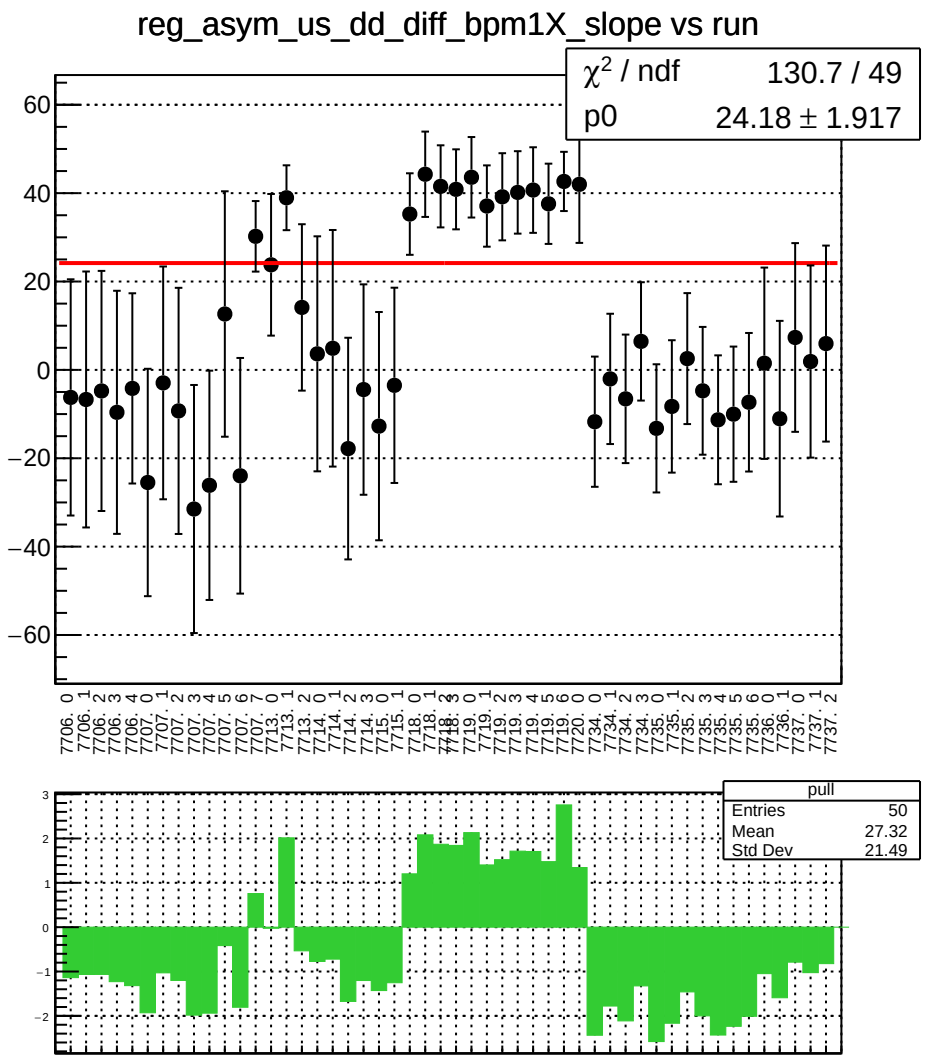

pull1D
Entries 50
Mean −1.448
Std Dev 2.796

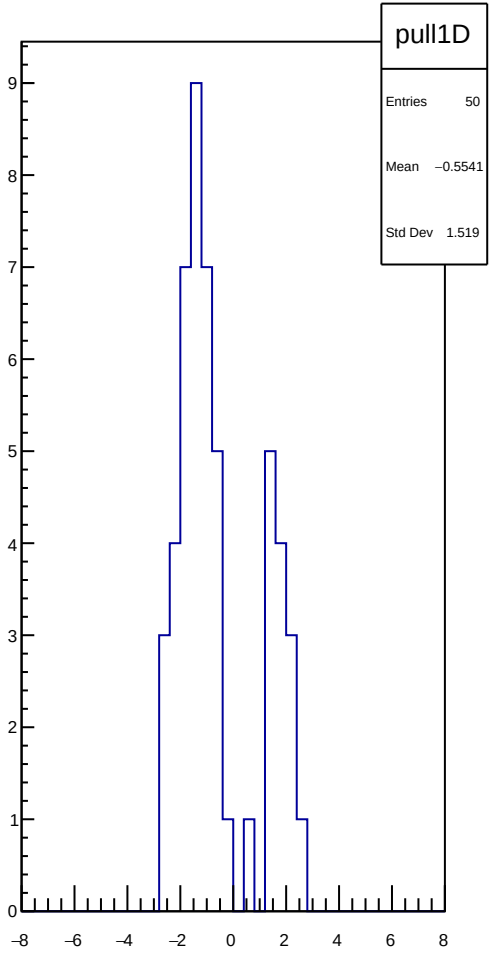

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.65 / 49
p0 9.09 ± 2.744
pull
Entries 50
Mean 45.98
Std Dev 3.394

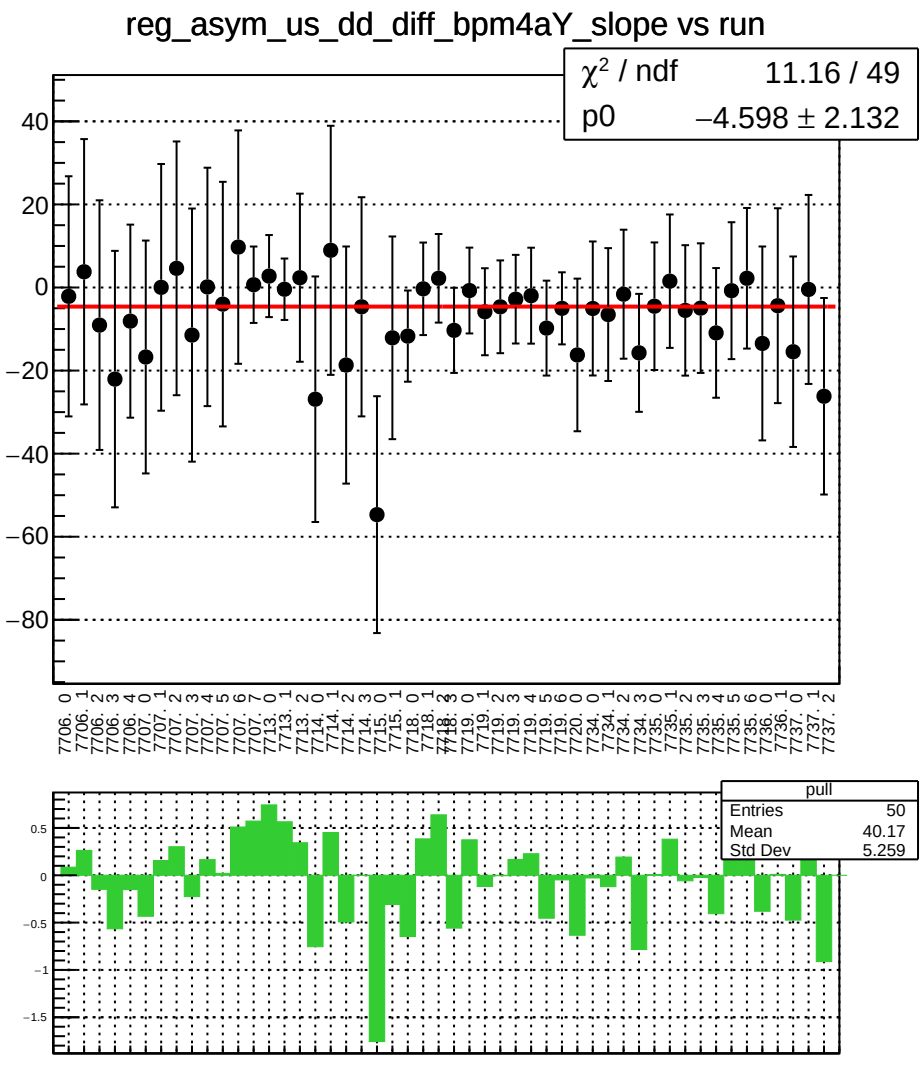

pull1D
Entries 50
Mean −0.1397
Std Dev 0.6111

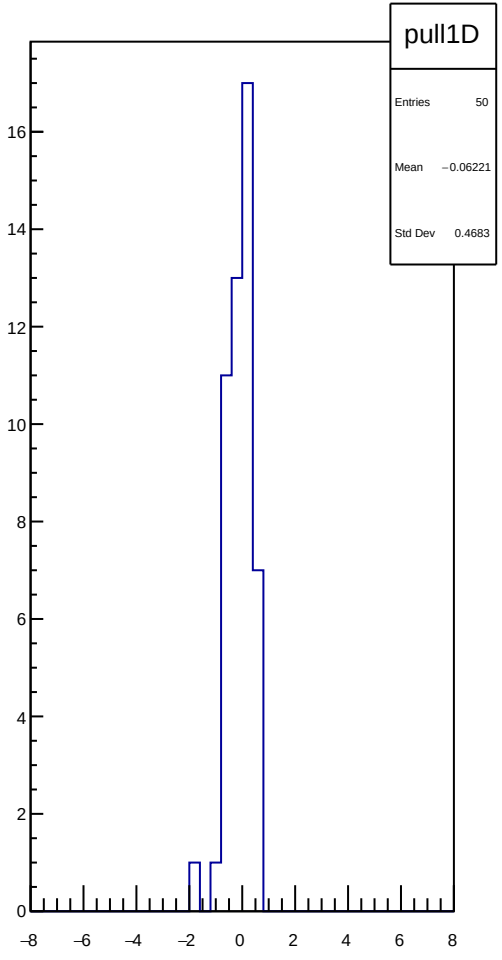

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 733.8 / 49
p0 −41.47 ± 0.1207
pull
Entries 50
Mean 23.67
Std Dev 16.93

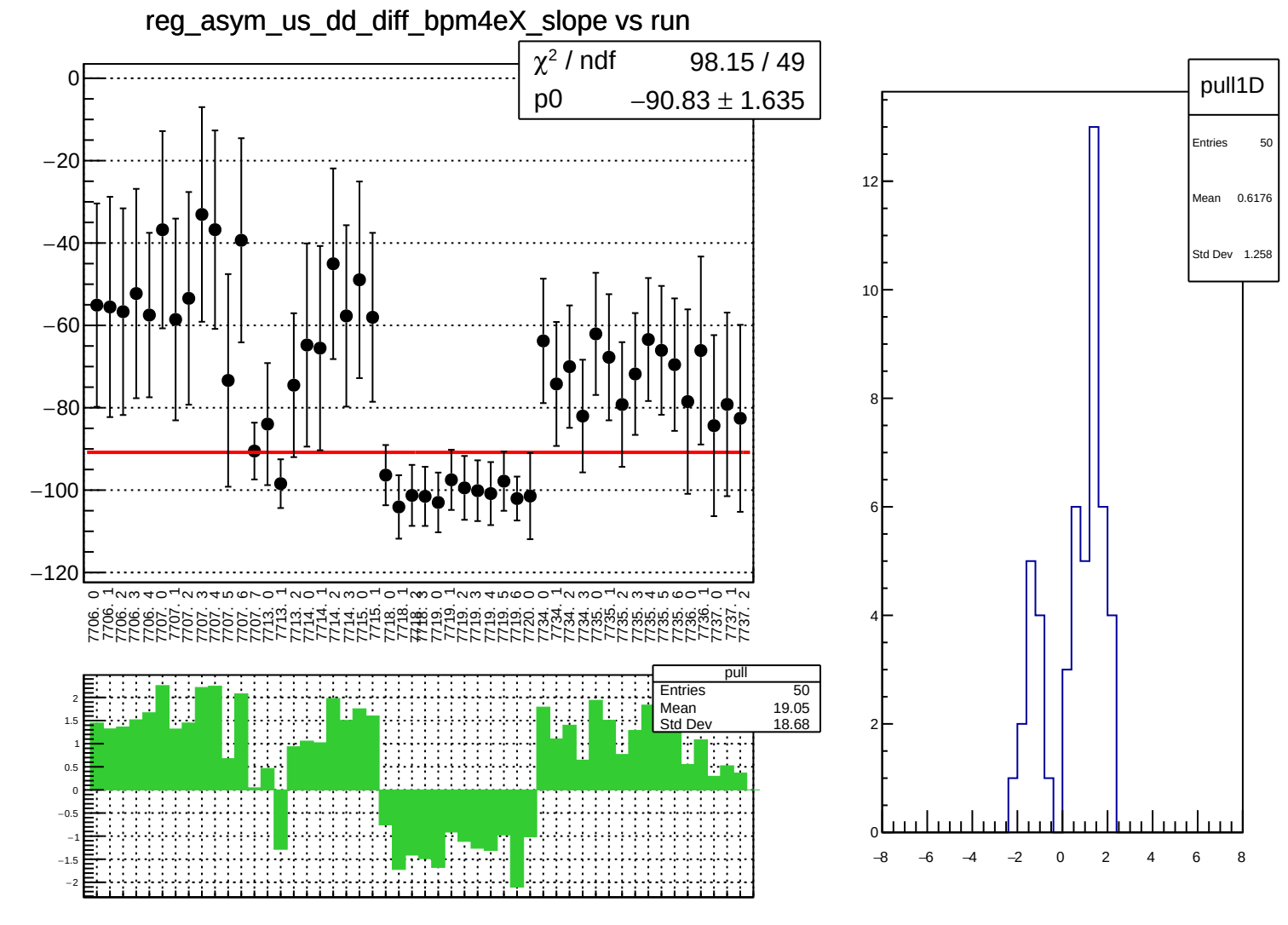

pull1D
Entries 50
Mean −0.3275
Std Dev 3.817

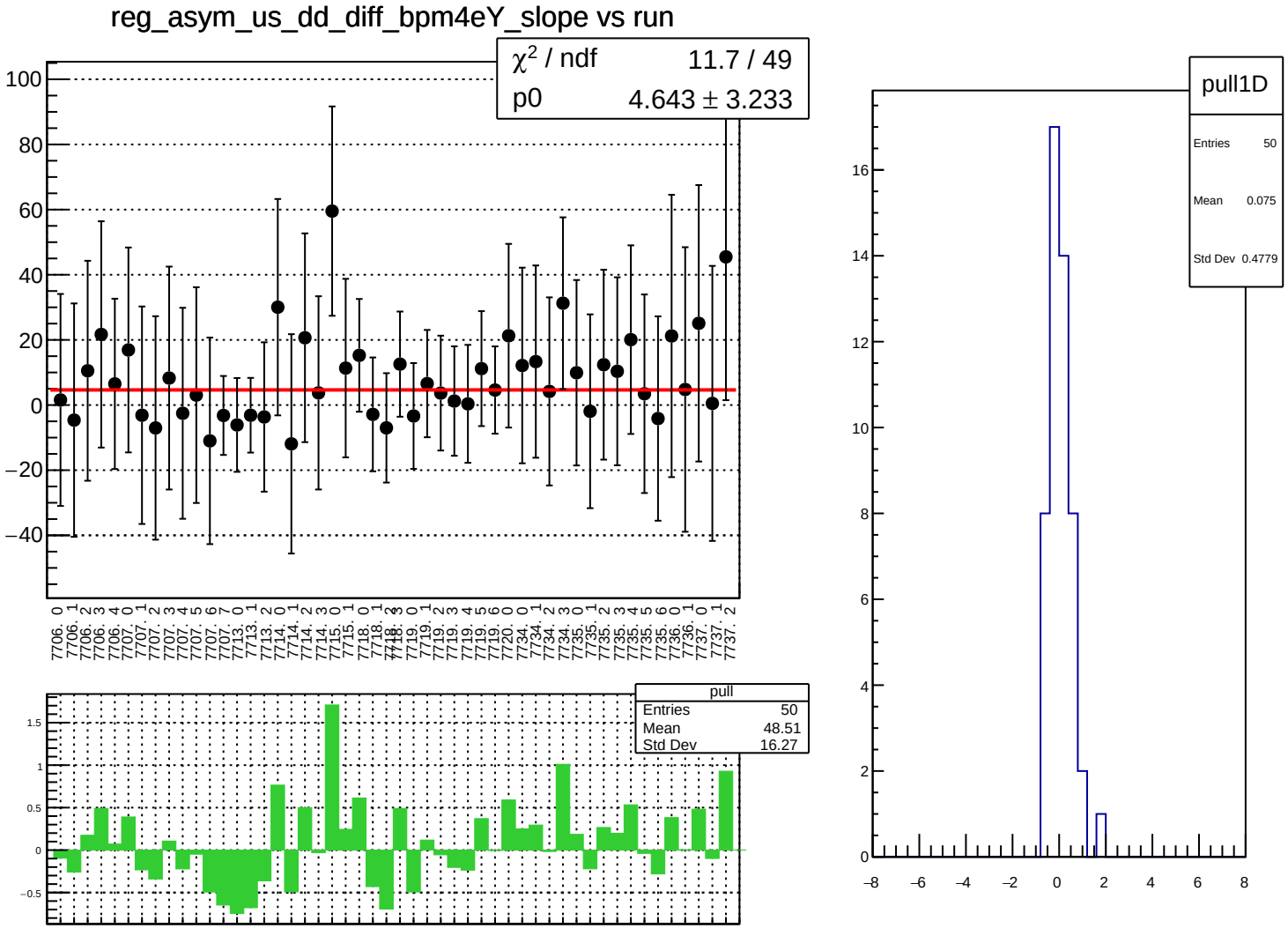

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 130.7 / 49
p0 24.18 ± 1.917
pull
Entries 50
Mean 27.32
Std Dev 21.49

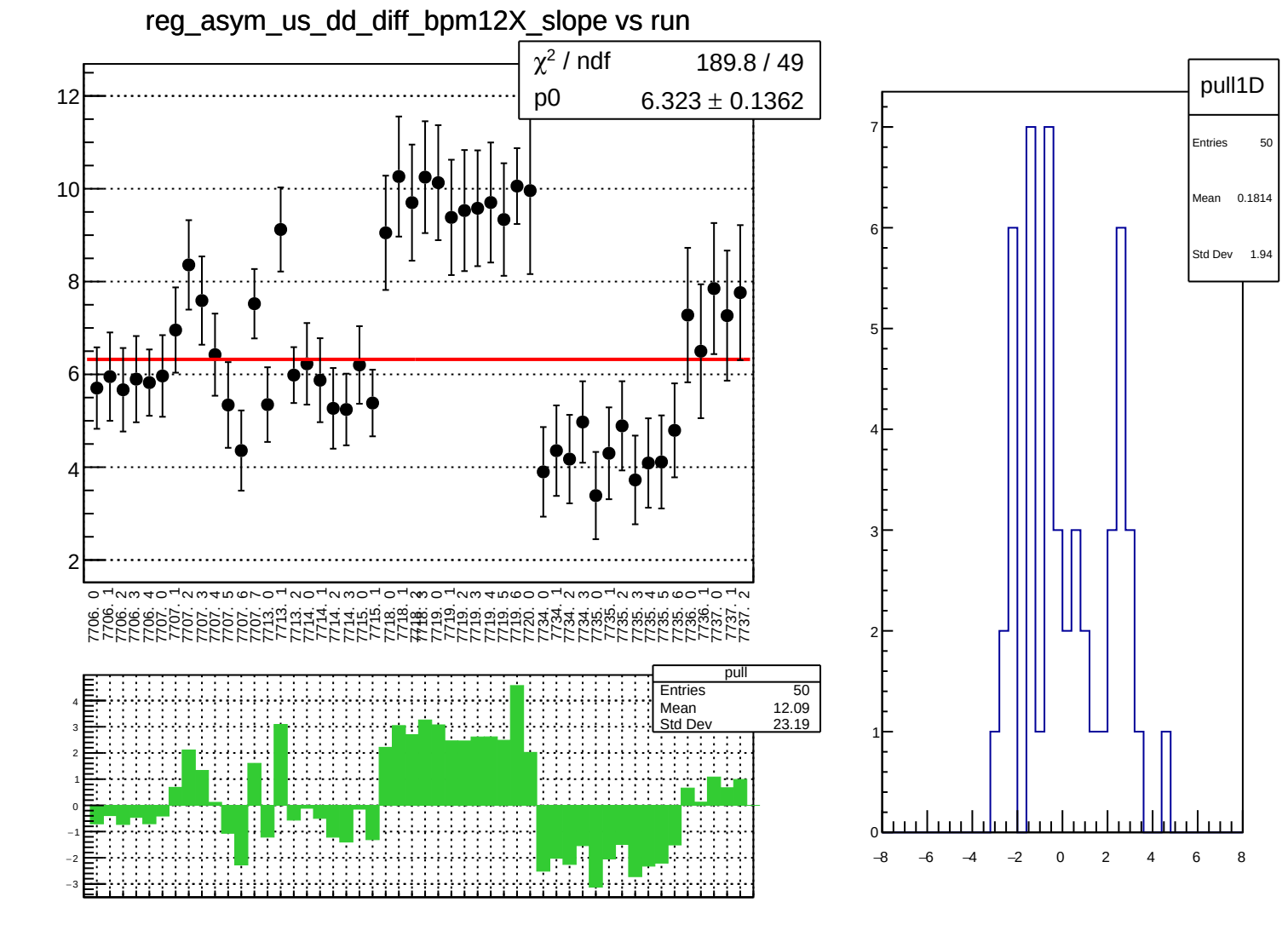

pull1D
Entries 50
Mean −0.5541
Std Dev 1.519

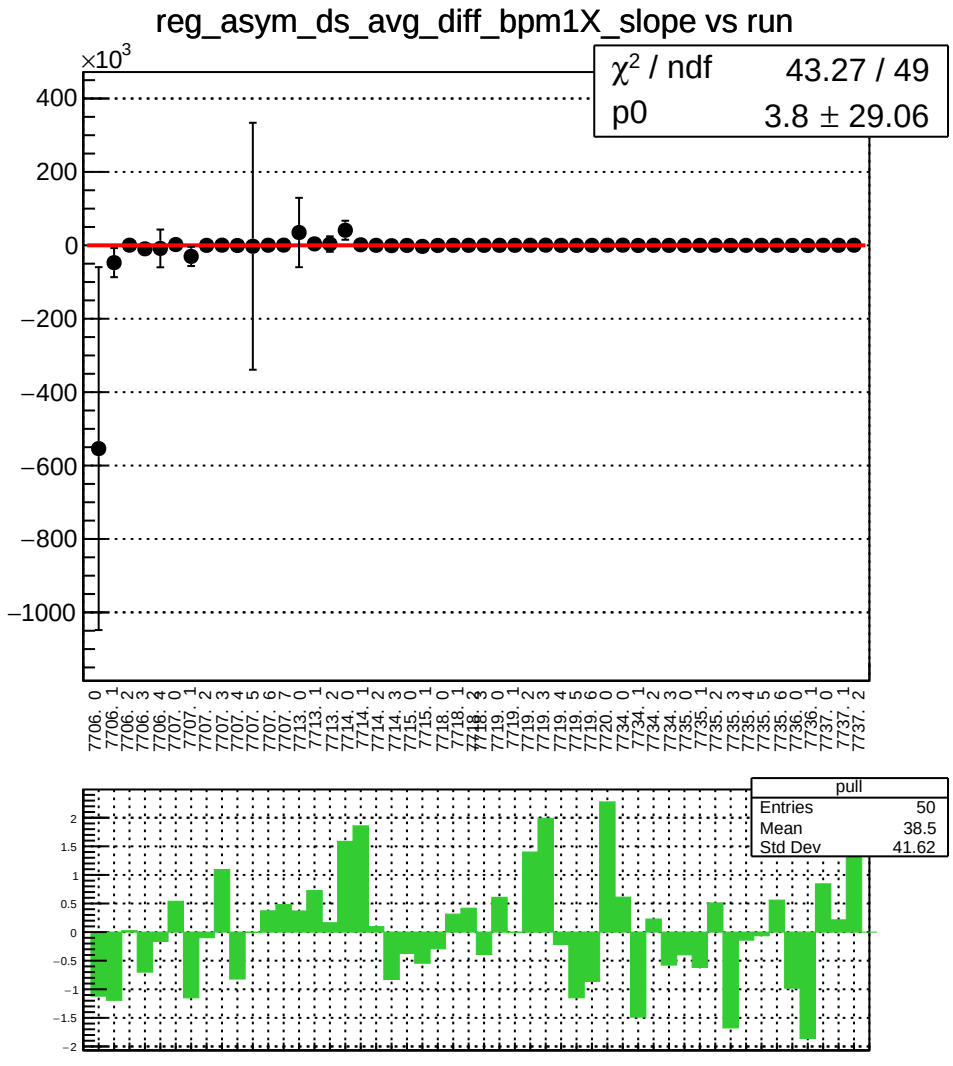

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.16 / 49
p0 −4.598 ± 2.132
pull
Entries 50
Mean 40.17
Std Dev 5.259

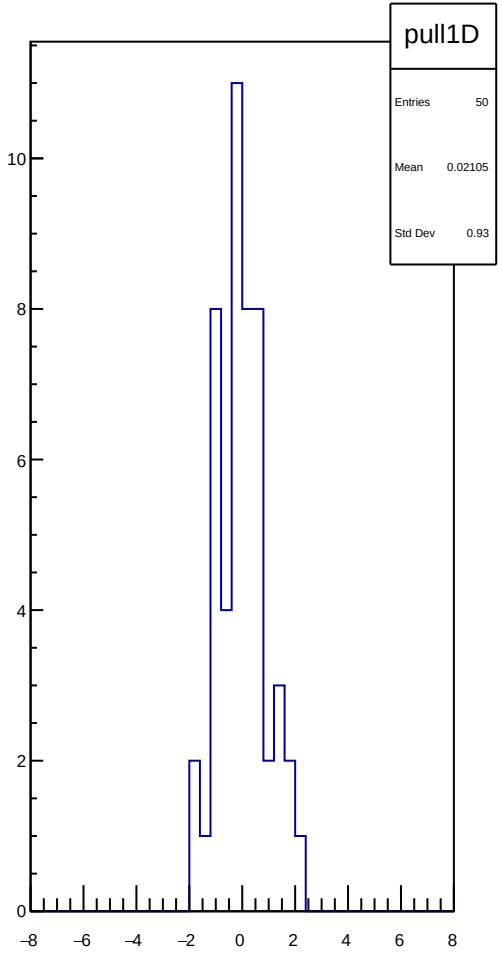

pull1D
Entries 50
Mean −0.06221
Std Dev 0.4683

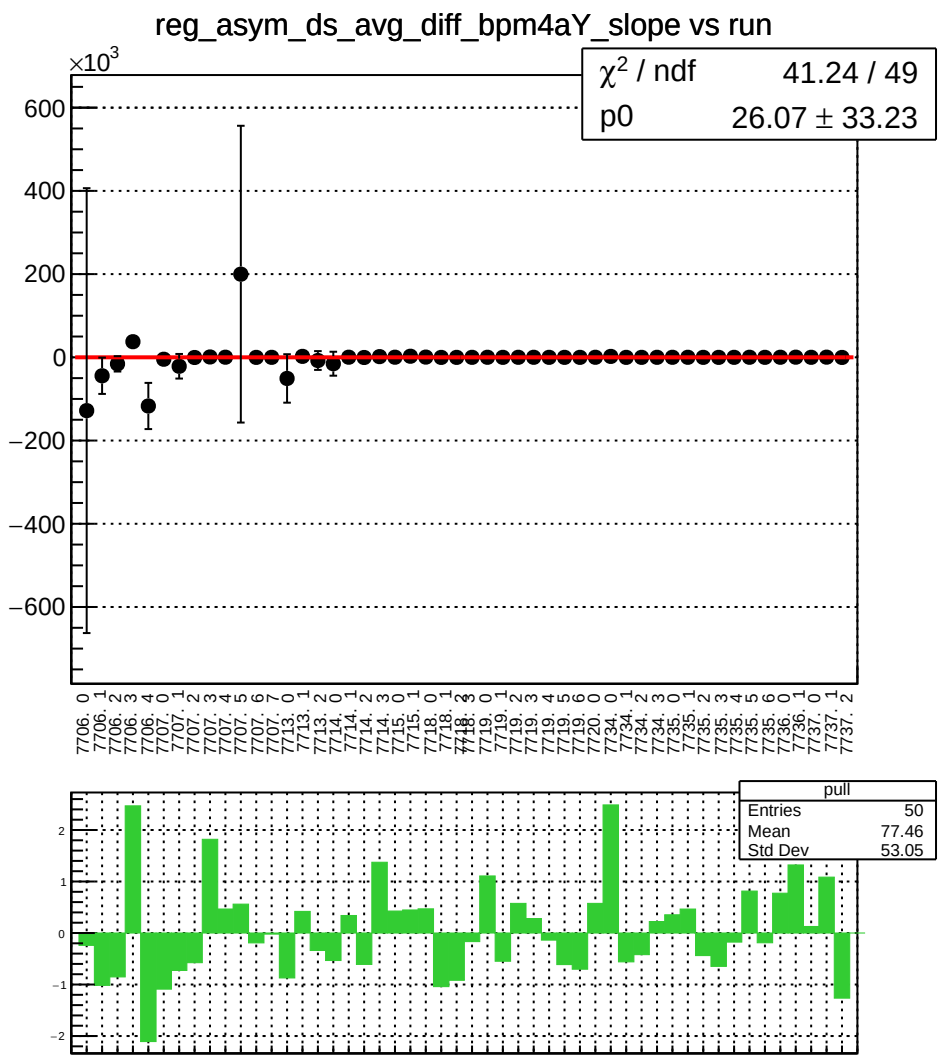

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.15 / 49
p0 −90.83 ± 1.635
pull
Entries 50
Mean 19.05
Std Dev 18.68
pull1D
Entries 50
Mean 0.6176
Std Dev 1.258

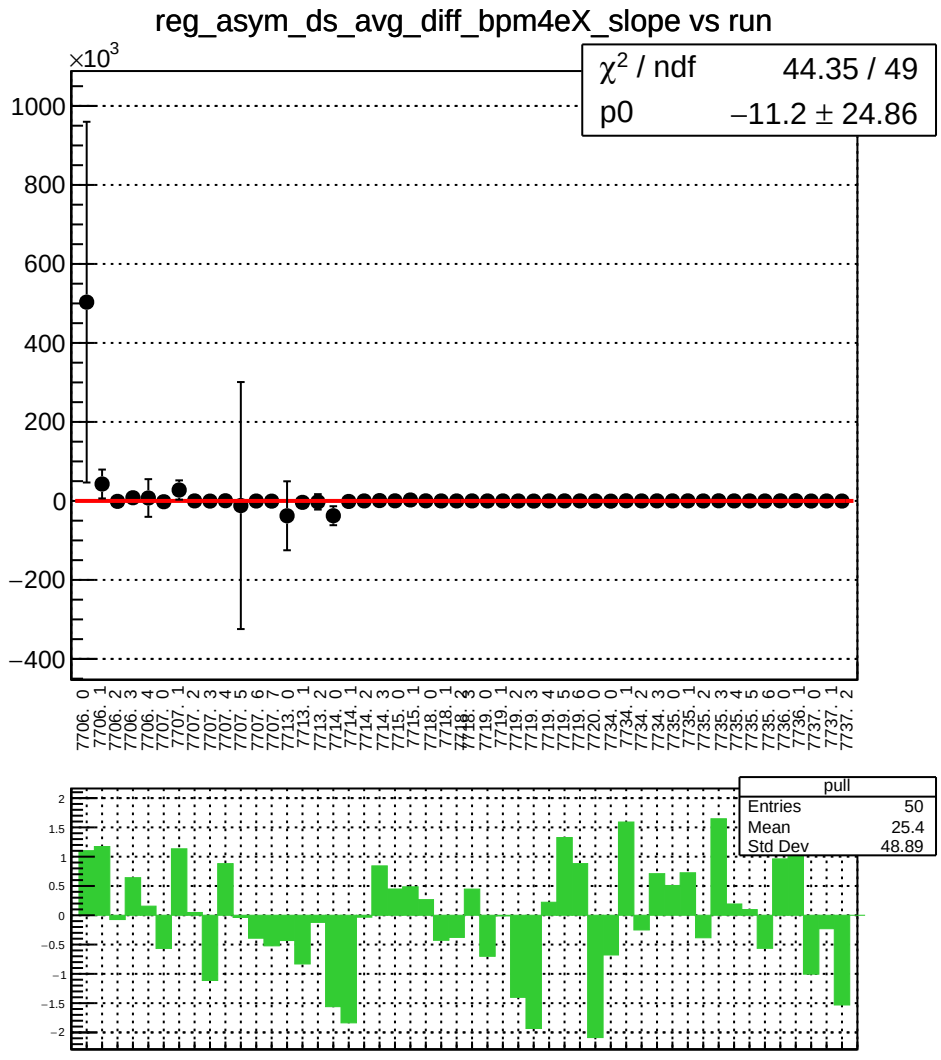

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.7 / 49
p0 4.643 ± 3.233
pull
Entries 50
Mean 48.51
Std Dev 16.27
pull1D
Entries 50
Mean 0.075
Std Dev 0.4779

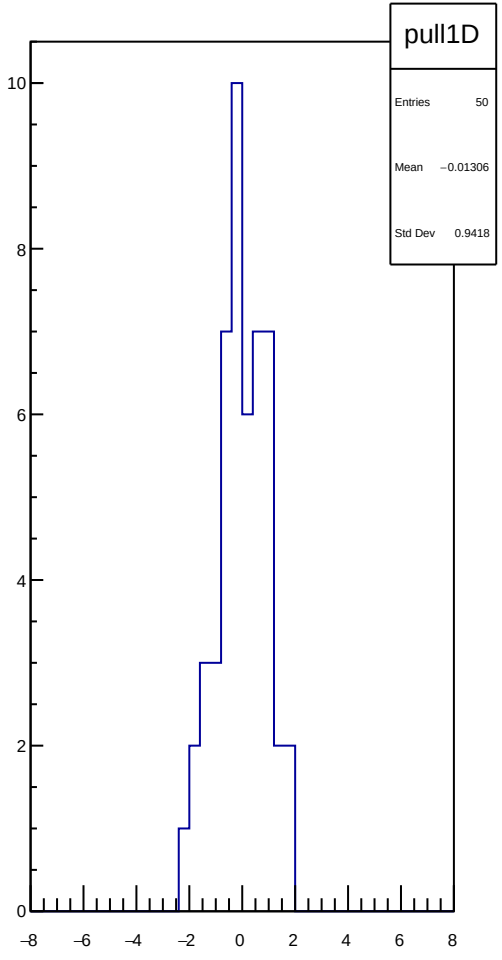

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 189.8 / 49
p0 6.323 ± 0.1362
pull
Entries 50
Mean 12.09
Std Dev 23.19
pull1D
Entries 50
Mean 0.1814
Std Dev 1.94

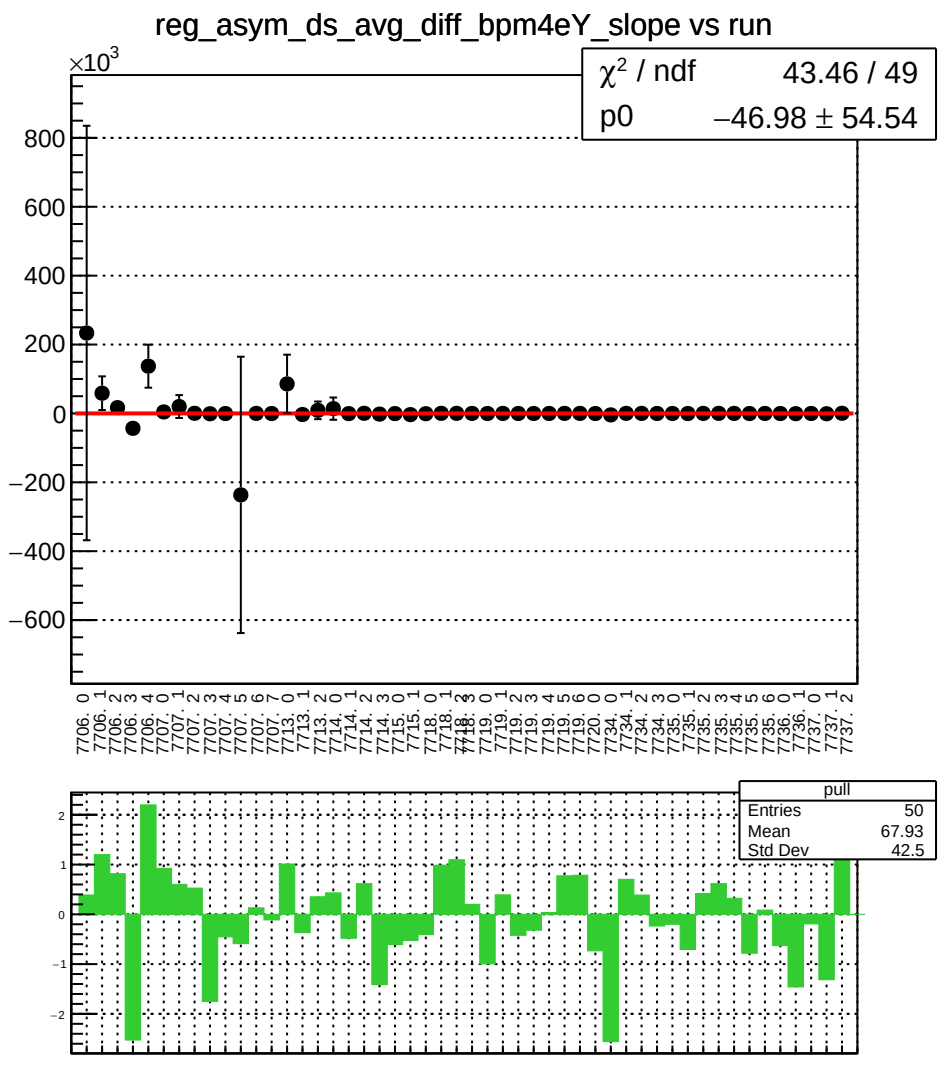

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 43.27 / 49
p0 3.8 ± 29.06
pull
Entries 50
Mean 38.5
Std Dev 41.62

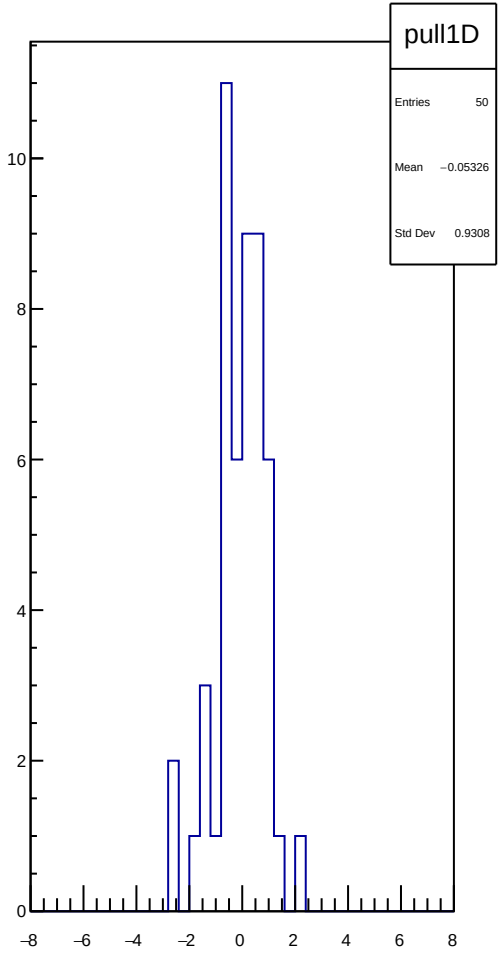

pull1D
Entries 50
Mean 0.02105
Std Dev 0.93

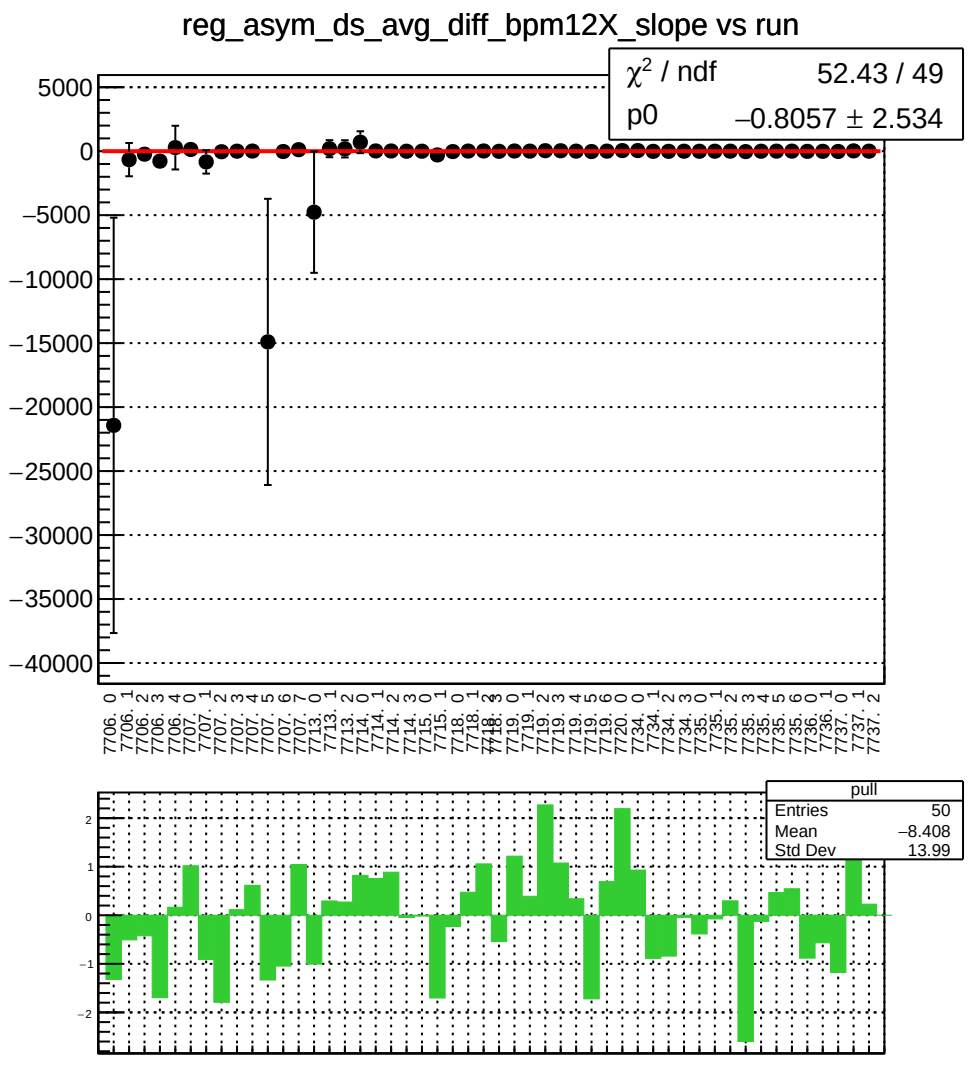

reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 41.24 / 49
p0 26.07 ± 33.23
600
400
200
0
−200
−400
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 77.46
Std Dev 53.05
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.03961
Std Dev 0.9073
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

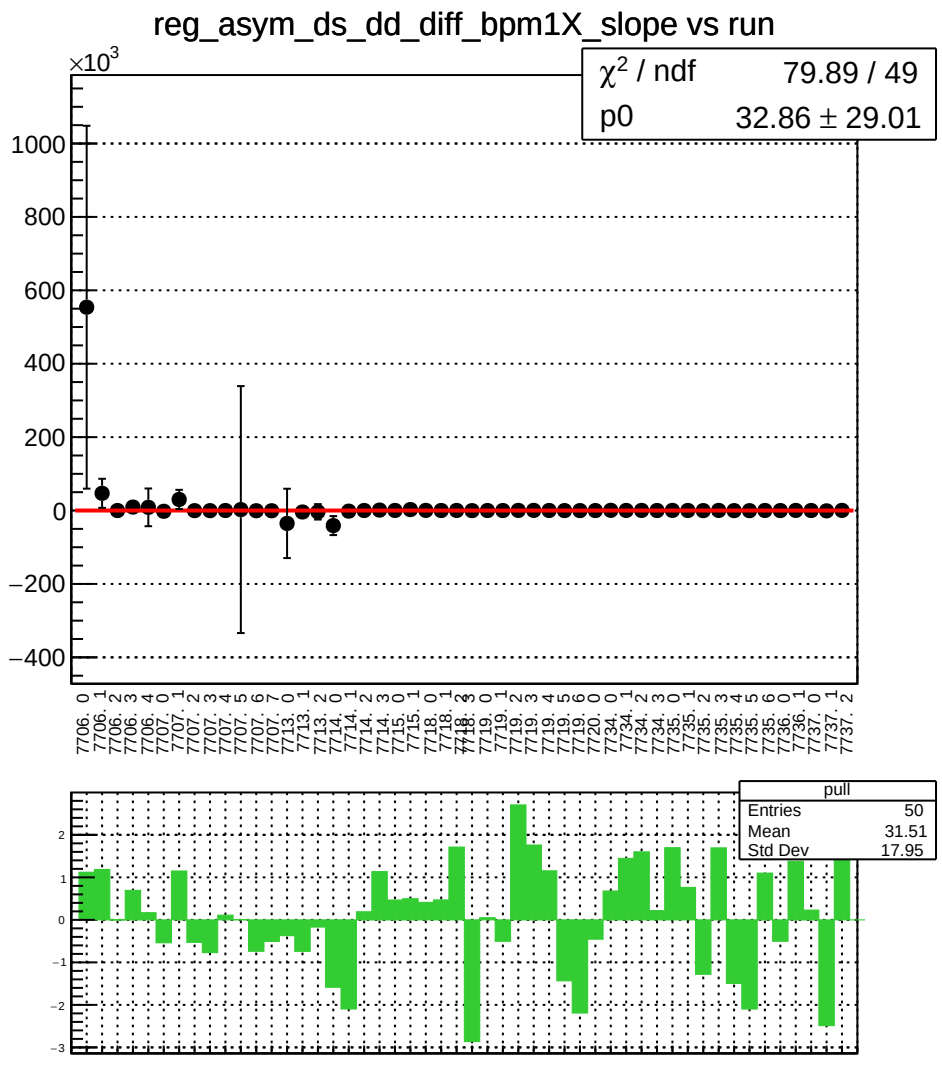

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 44.35 / 49
p0 −11.2 ± 24.86
1000
800
600
400
200
0
−200
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 25.4
Std Dev 48.89
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

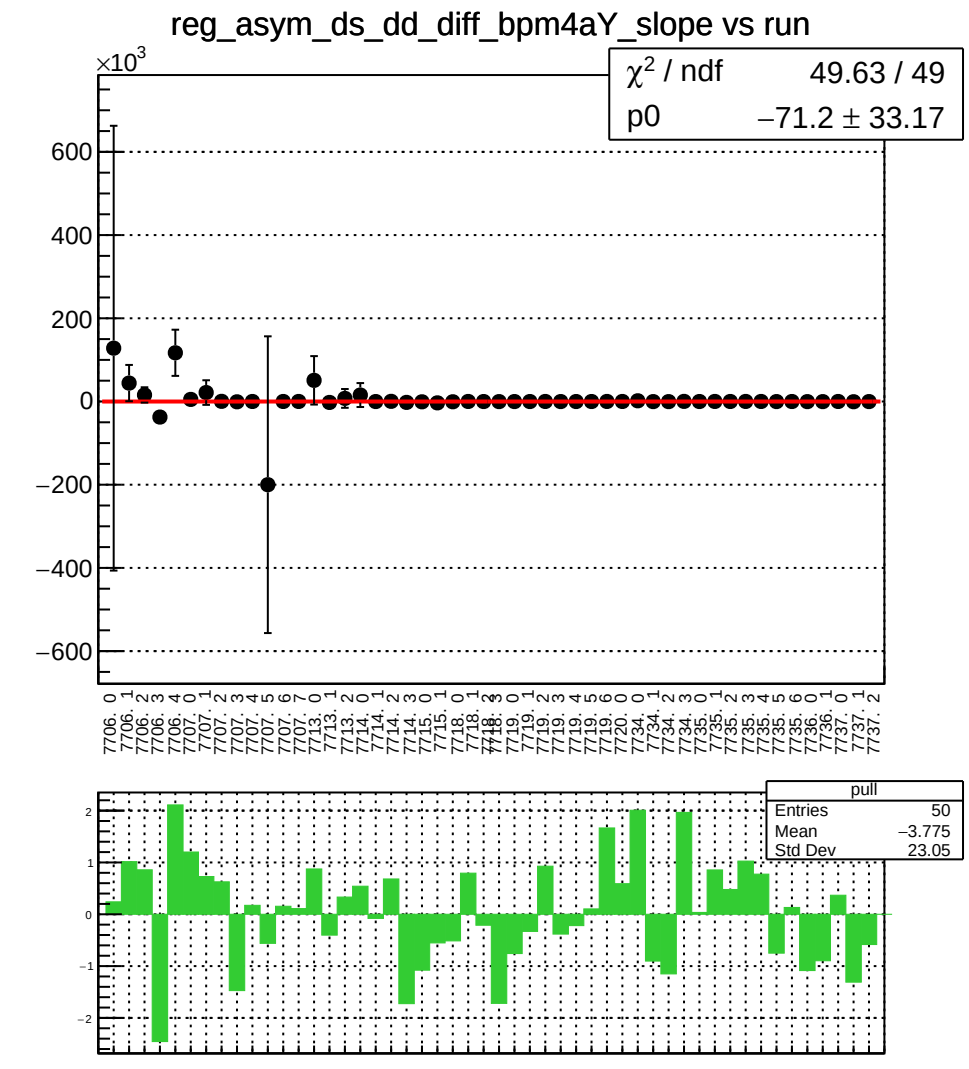

pull1D
Entries 50
Mean −0.01306
Std Dev 0.9418
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

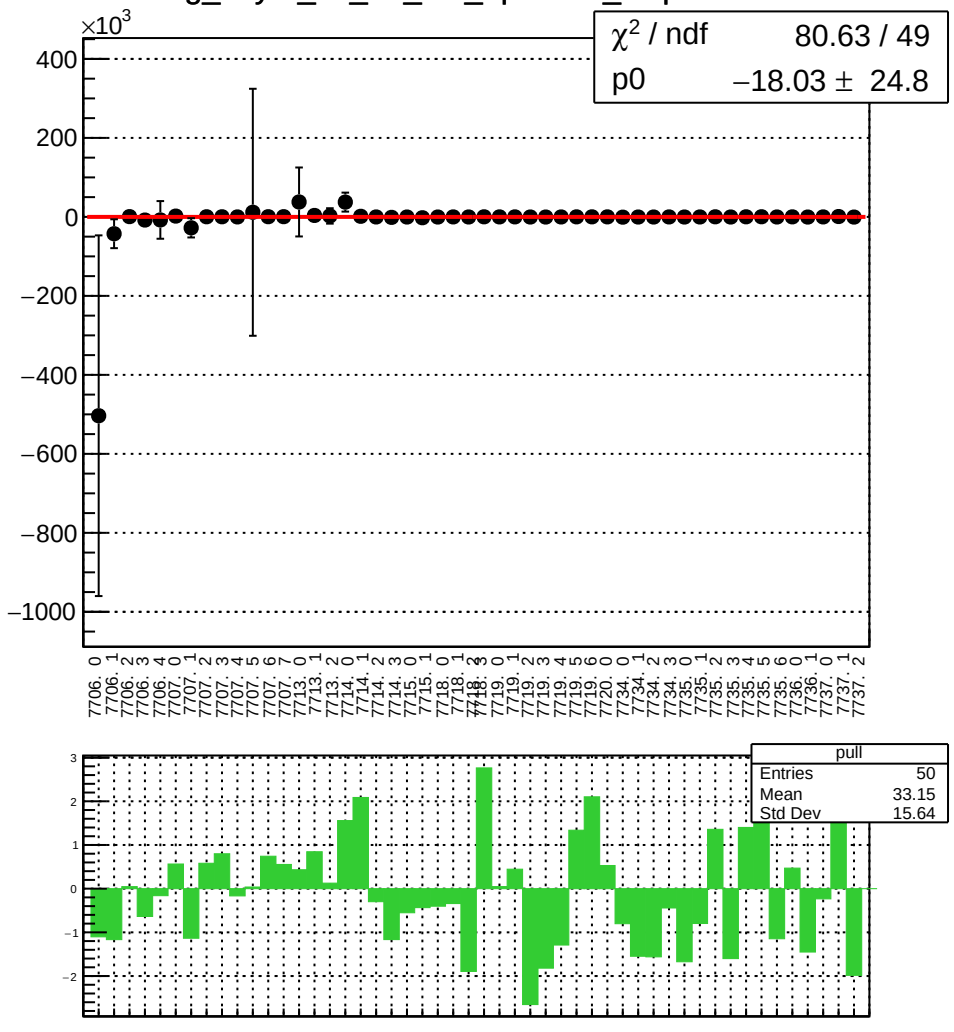

reg_asym_ds_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 43.46 / 49
p0 −46.98 ± 54.54
800
600
400
200
0
−200
−400
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 67.93
Std Dev 42.5
2
1
0
−1
−2


pull1D
Entries 50
Mean −0.05326
Std Dev 0.9308
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 52.43 / 49
p0 −0.8057 ± 2.534
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −8.408
Std Dev 13.99
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.05103
Std Dev 1.023
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 79.89 / 49
p0 32.86 ± 29.01
1000
800
600
400
200
0
−200
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 31.51
Std Dev 17.95
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 0.08912
Std Dev 1.261
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 49.63 / 49
p0 −71.2 ± 33.17
600
400
200
0
−200
−400
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −3.775
Std Dev 23.05
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.04465
Std Dev 0.9953
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 80.63 / 49
p0 −18.03 ± 24.8
400
200
0
−200
−400
−600
−800
−1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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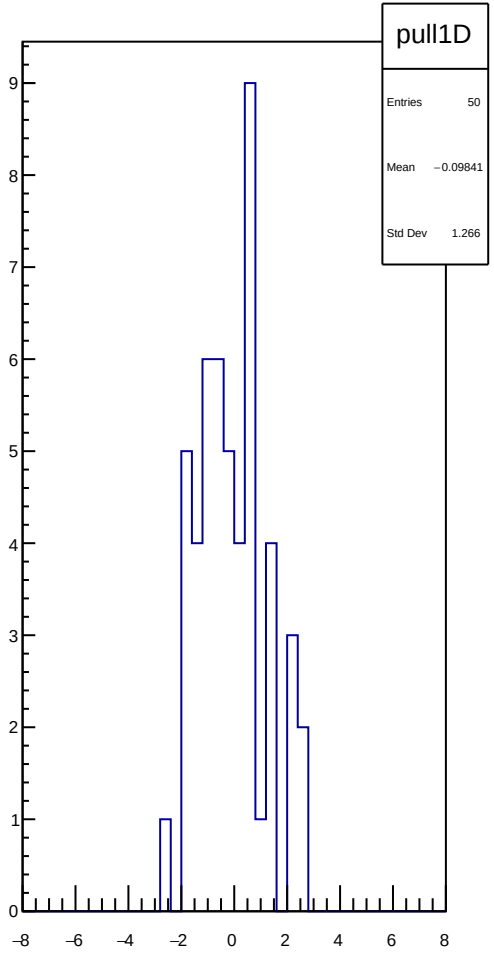
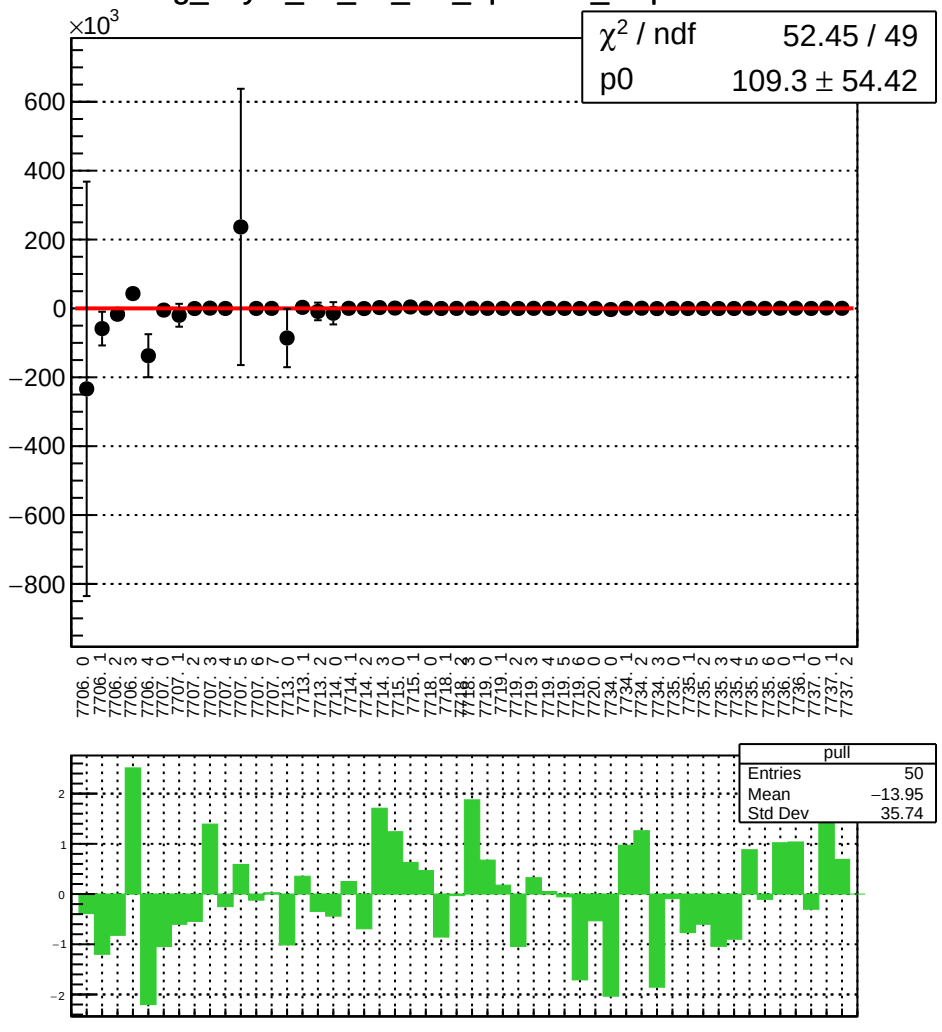
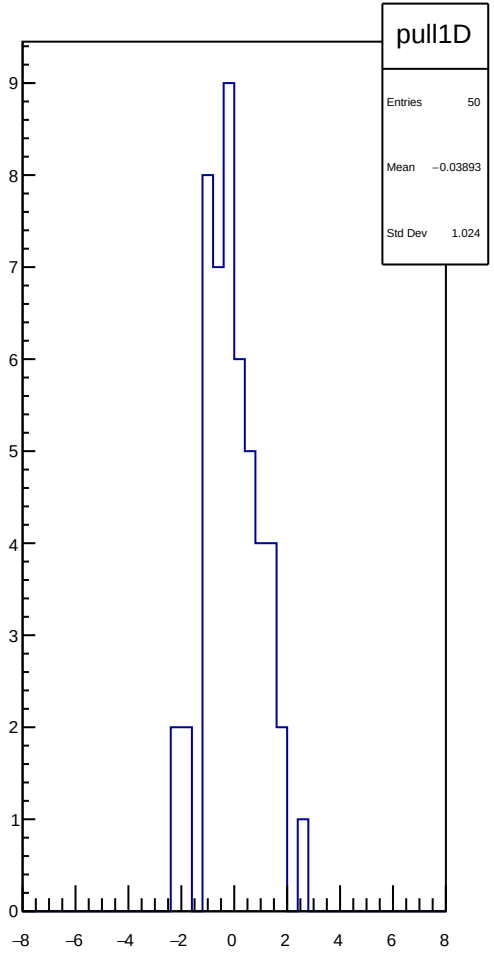
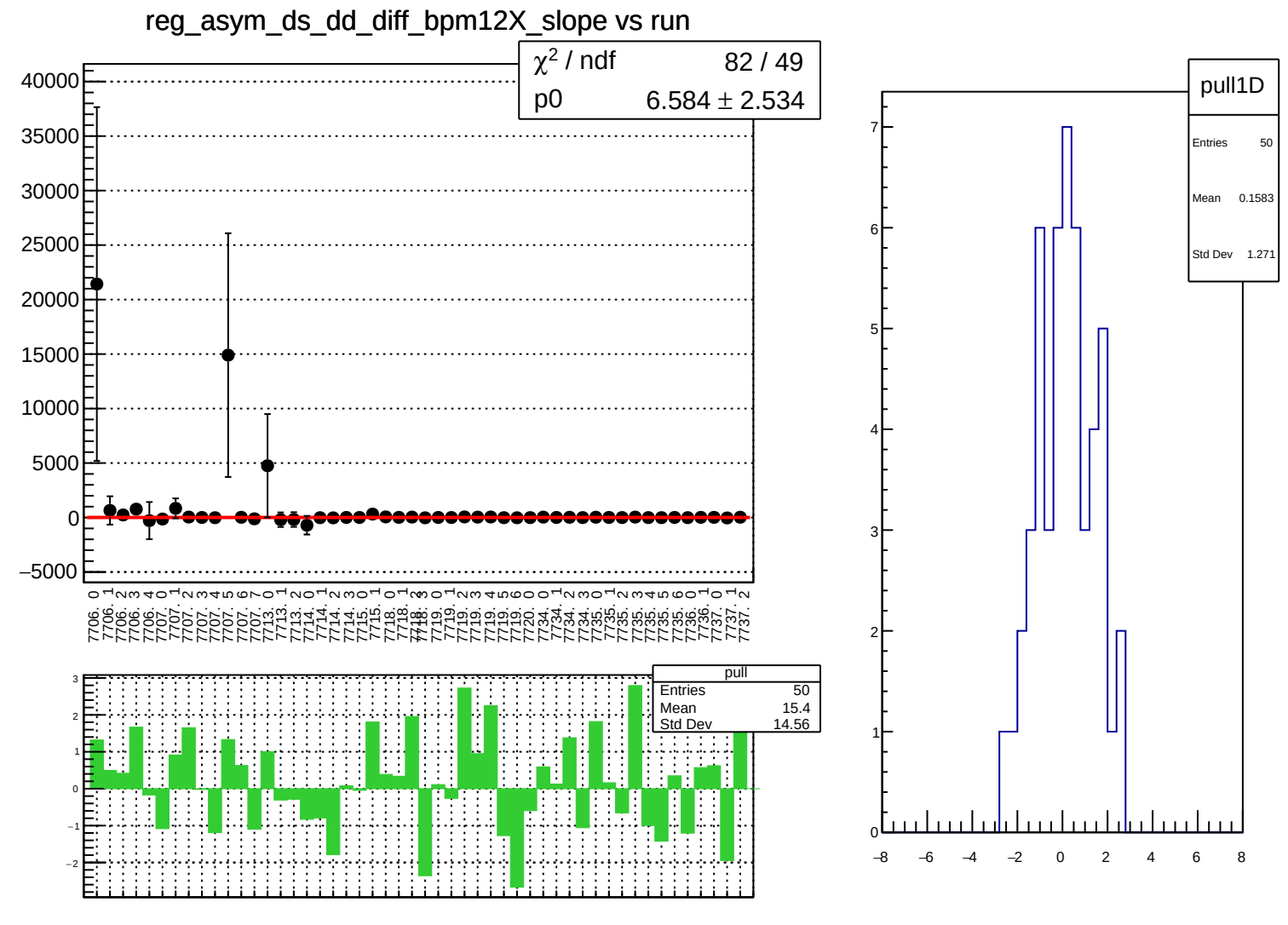
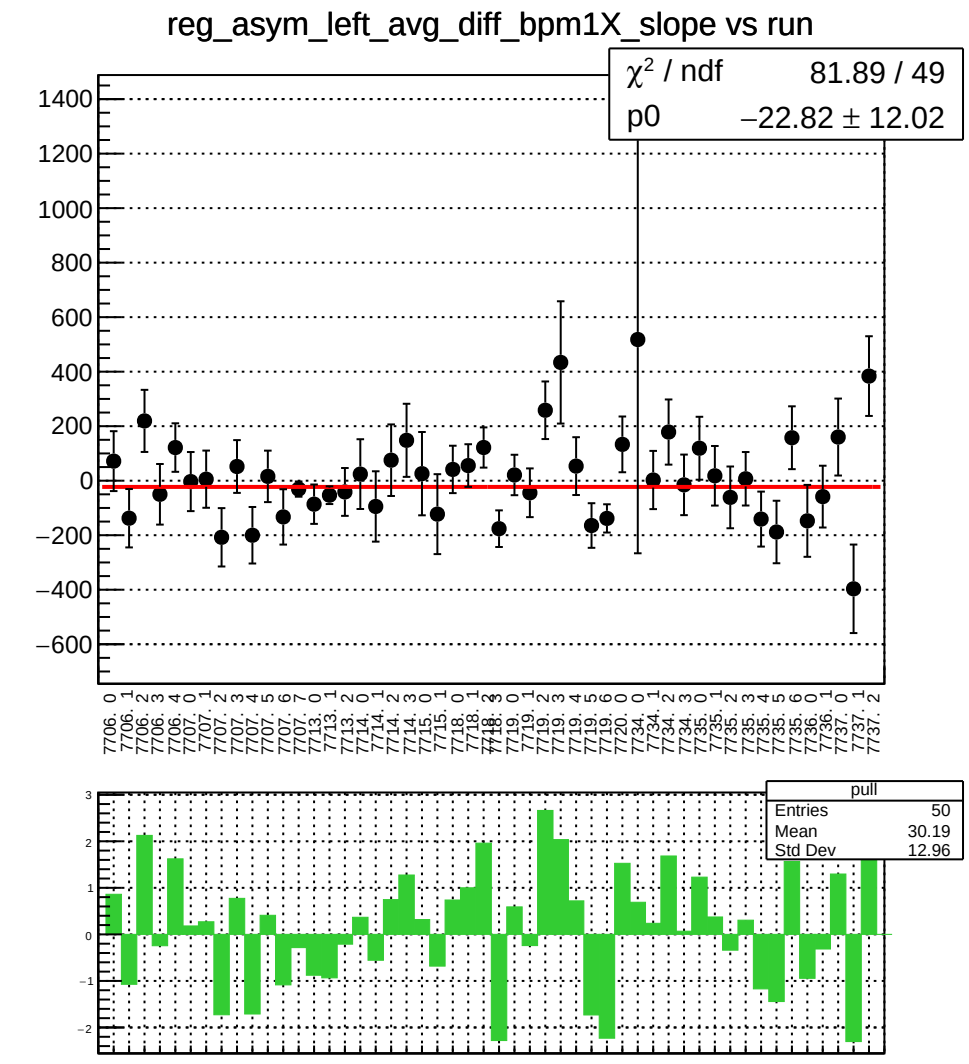
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 33.15
Std Dev 15.64
3
2
1
0
−1
−2

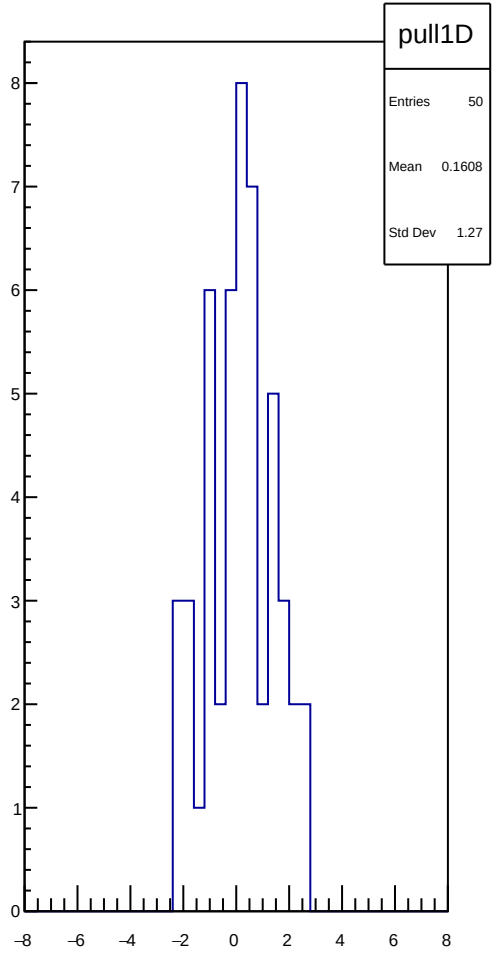

pull1D
Entries 50
Mean −0.09841
Std Dev 1.266
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

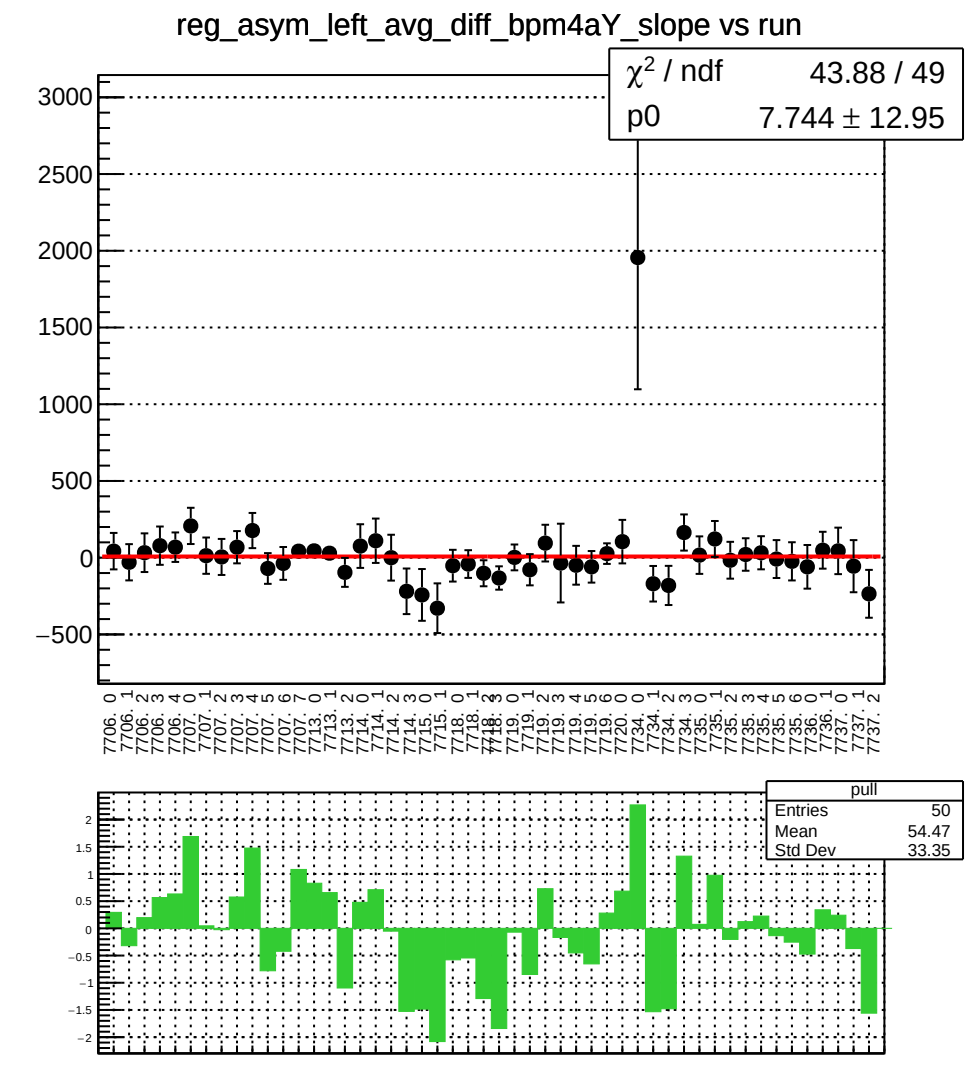

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 52.45 / 49
p0 109.3 ± 54.42
600
400
200
0
−200
−400
−600
−800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −13.95
Std Dev 35.74
2
1
0
−1
−2

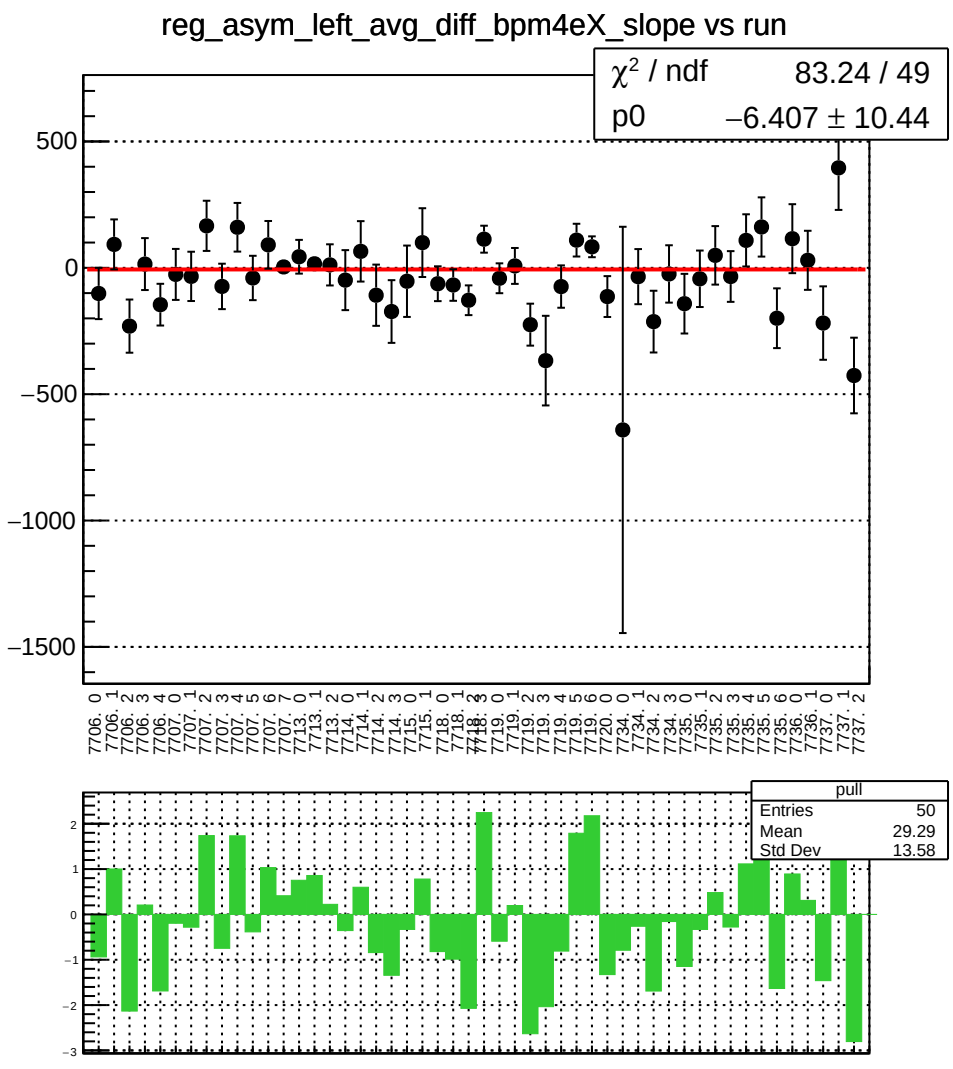

pull1D
Entries 50
Mean −0.03893
Std Dev 1.024
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

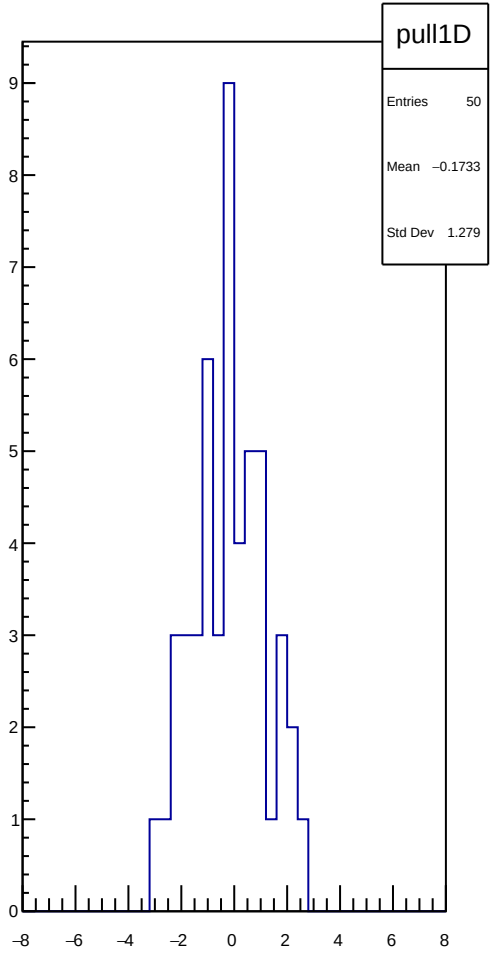

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82 / 49
p0 6.584 ± 2.534
pull
Entries 50
Mean 15.4
Std Dev 14.56
pull1D
Entries 50
Mean 0.1583
Std Dev 1.271

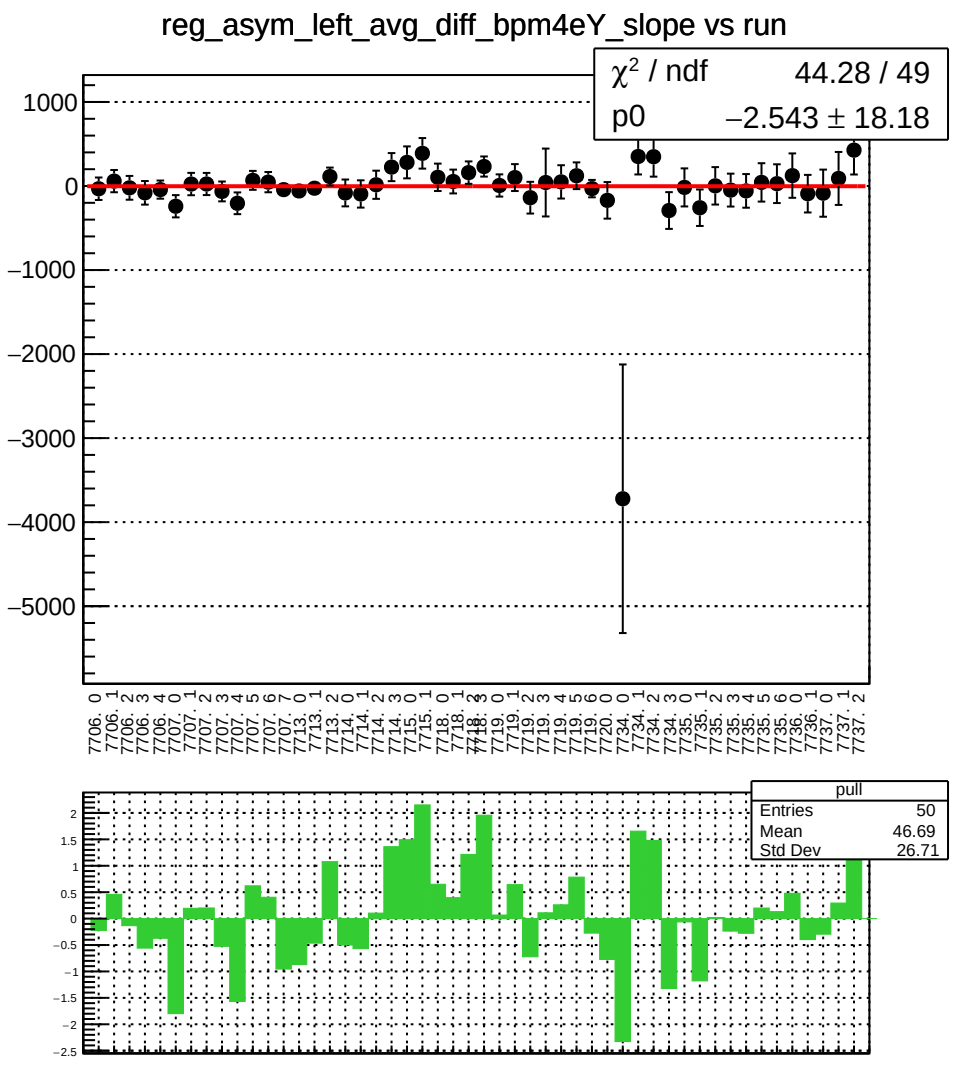

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 81.89 / 49
p0 −22.82 ± 12.02
pull
Entries 50
Mean 30.19
Std Dev 12.96

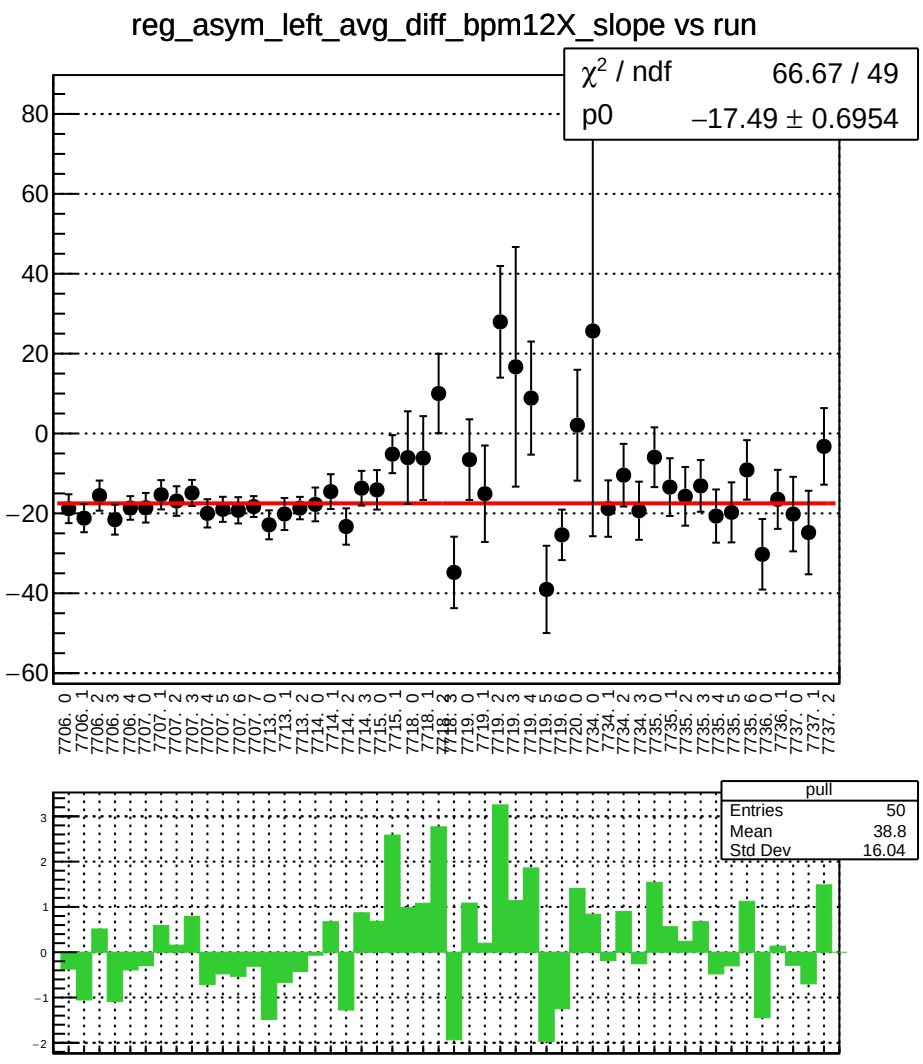

pull1D
Entries 50
Mean 0.1608
Std Dev 1.27

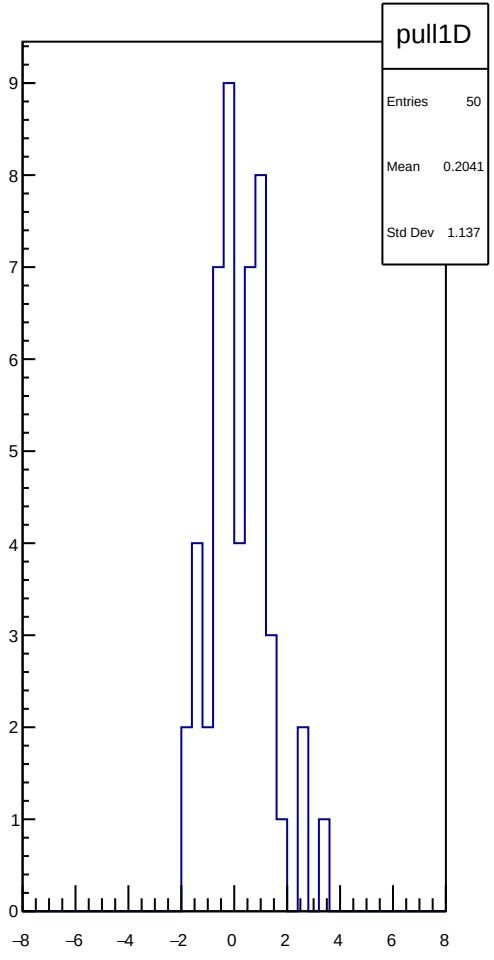

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 43.88 / 49
p0 7.744 ± 12.95
3000
2500
2000
1500
1000
500
0
−500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 54.47
Std Dev 33.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.07448
Std Dev 0.9338
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

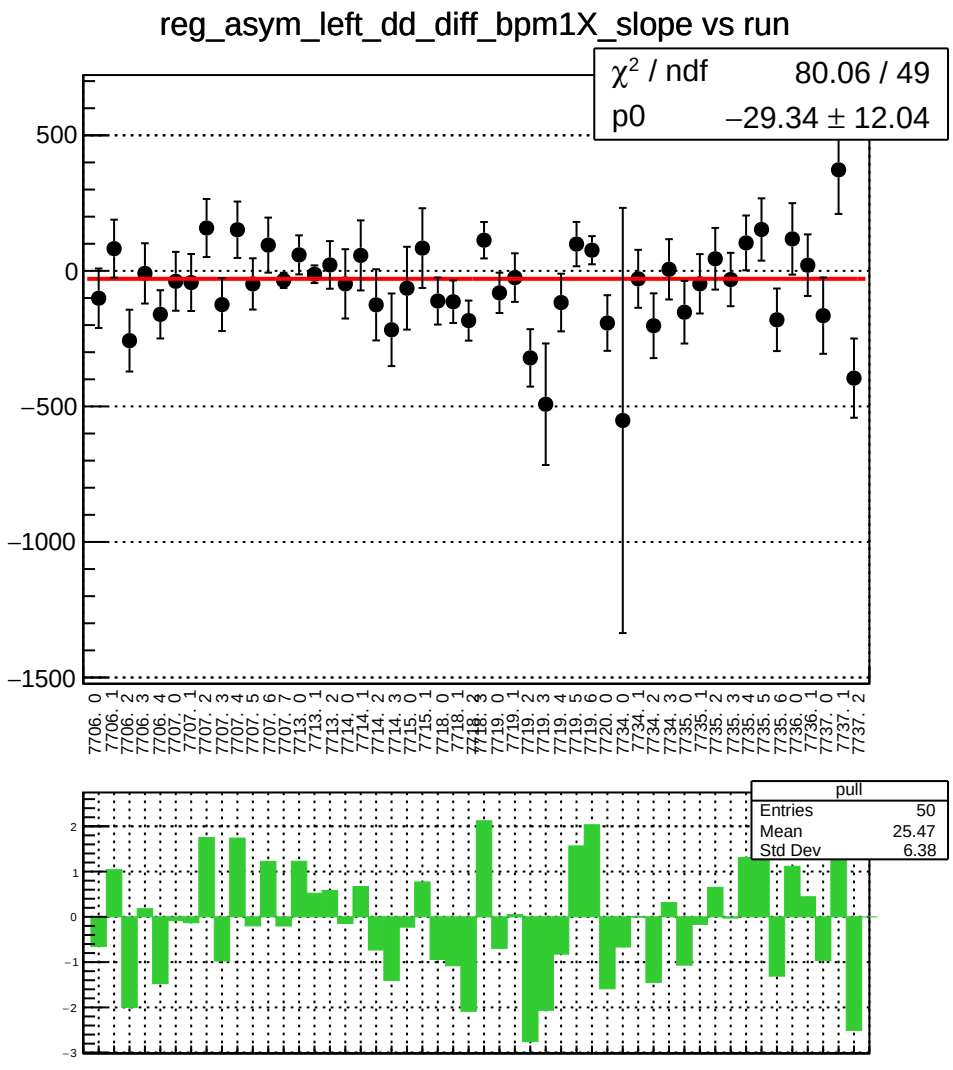

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 83.24 / 49
p0 −6.407 ± 10.44
500
0
−500
−1000
−1500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 29.29
Std Dev 13.58
2
1
0
−1
−2
−3

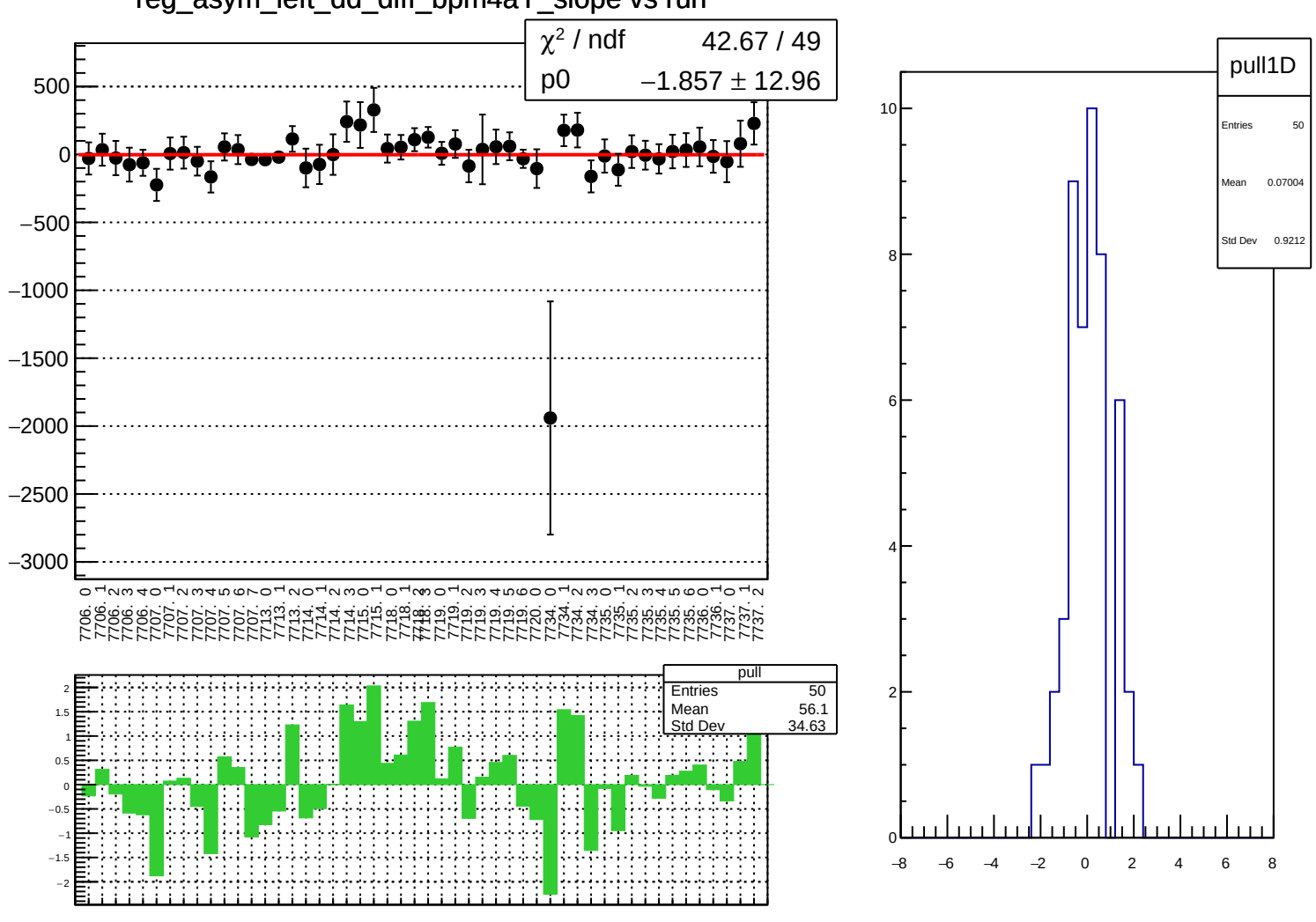

pull1D
Entries 50
Mean −0.1733
Std Dev 1.279
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

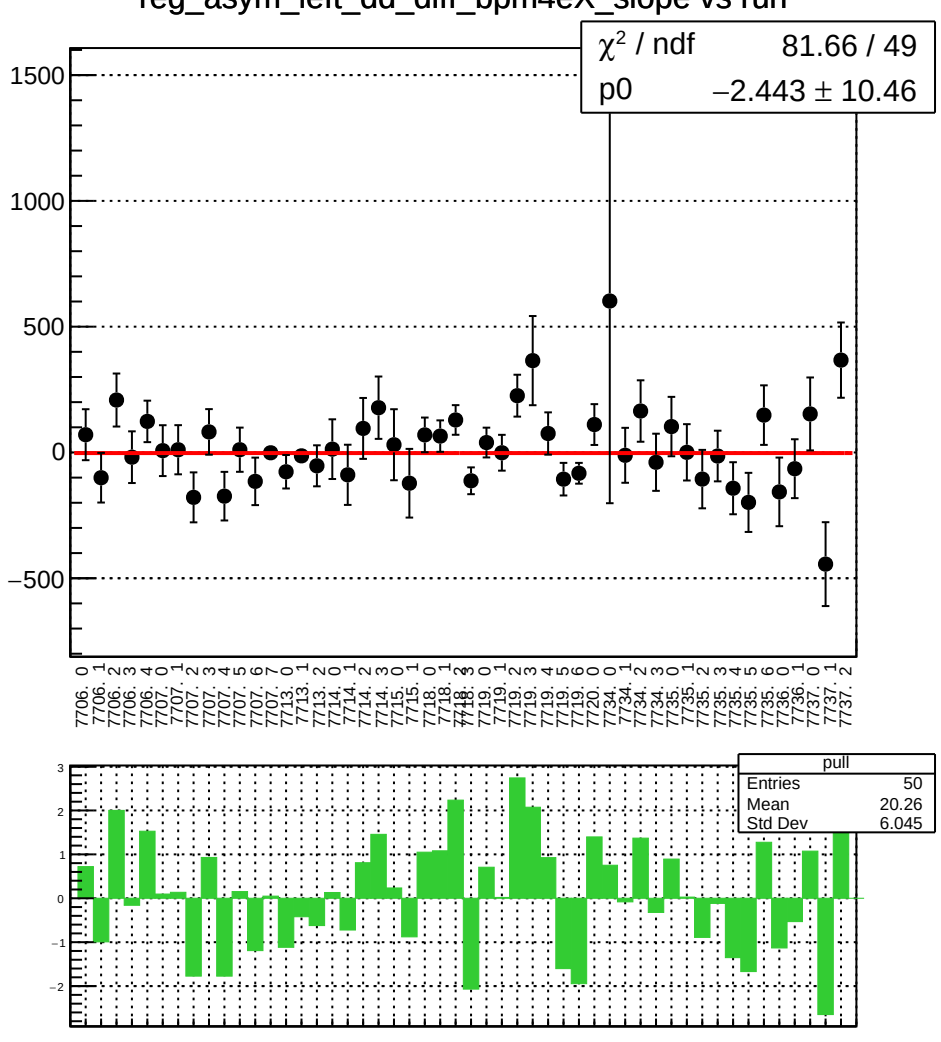

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.28 / 49
p0 −2.543 ± 18.18
1000
0
−1000
−2000
−3000
−4000
−5000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 46.69
Std Dev 26.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean 0.06984
Std Dev 0.9385
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

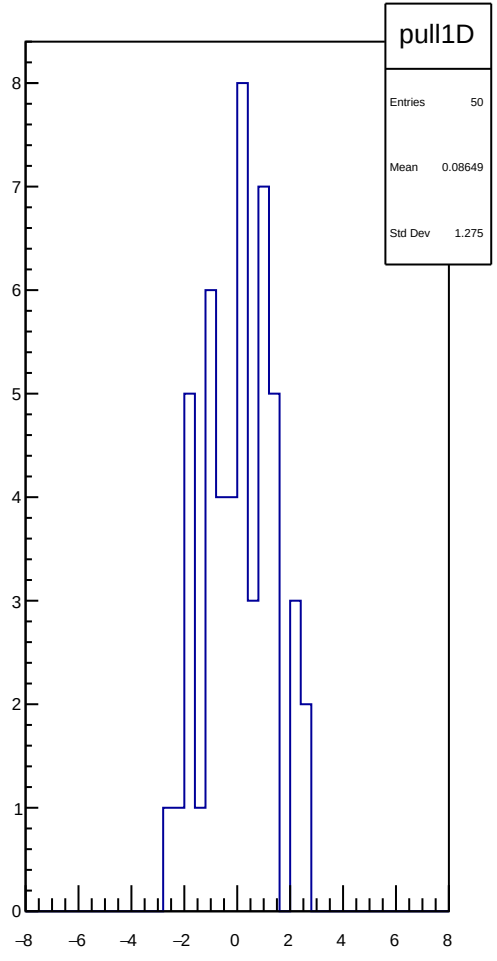

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 66.67 / 49
p0 −17.49 ± 0.6954
pull
Entries 50
Mean 38.8
Std Dev 16.04

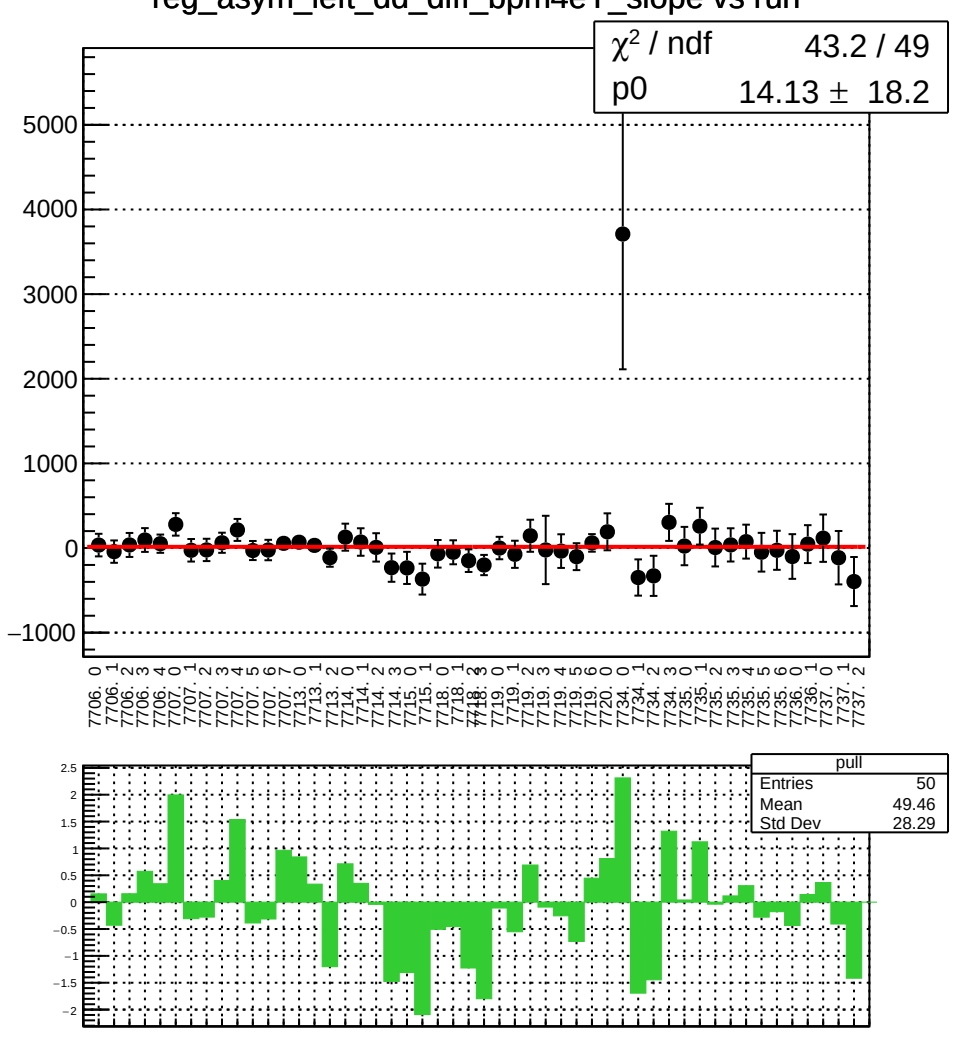

pull1D
Entries 50
Mean 0.2041
Std Dev 1.137

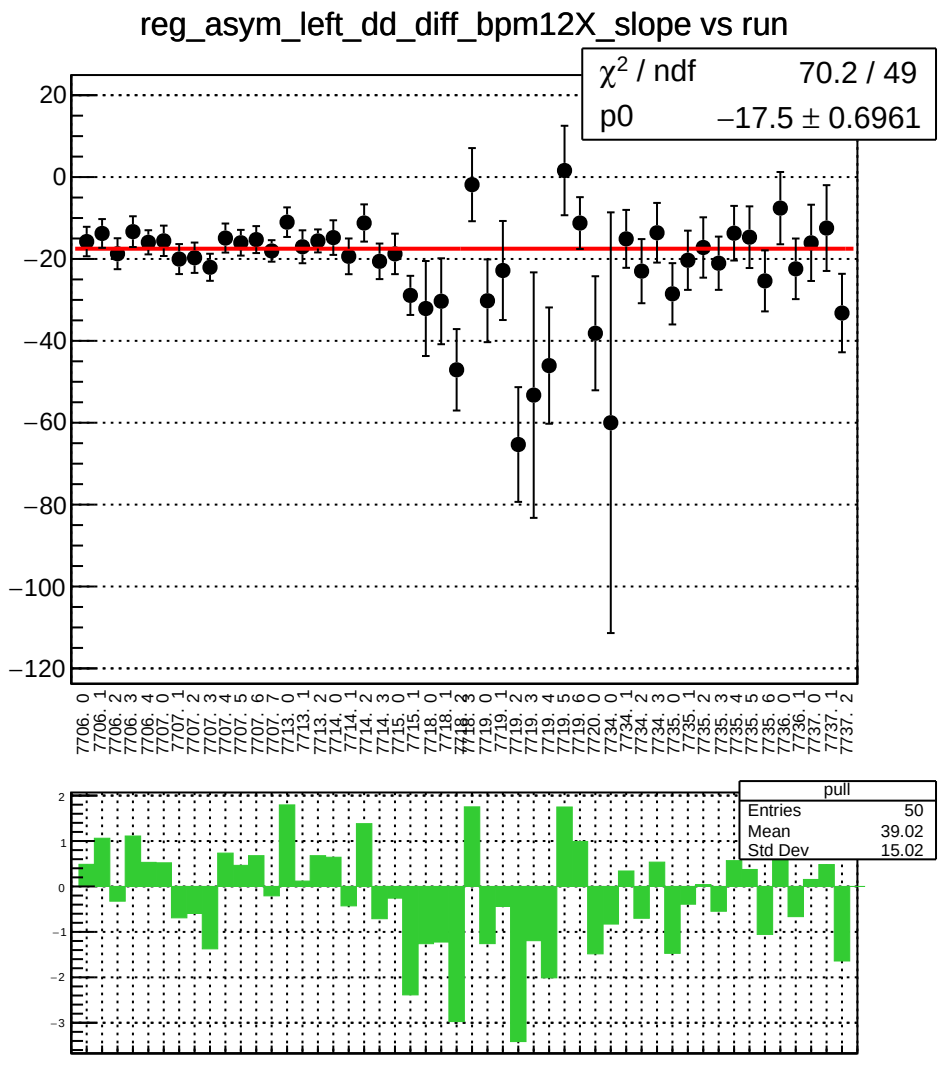

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 80.06 / 49
p0 −29.34 ± 12.04
500
0
−500
−1000
−1500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 25.47
Std Dev 6.38
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.1006
Std Dev 1.261
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

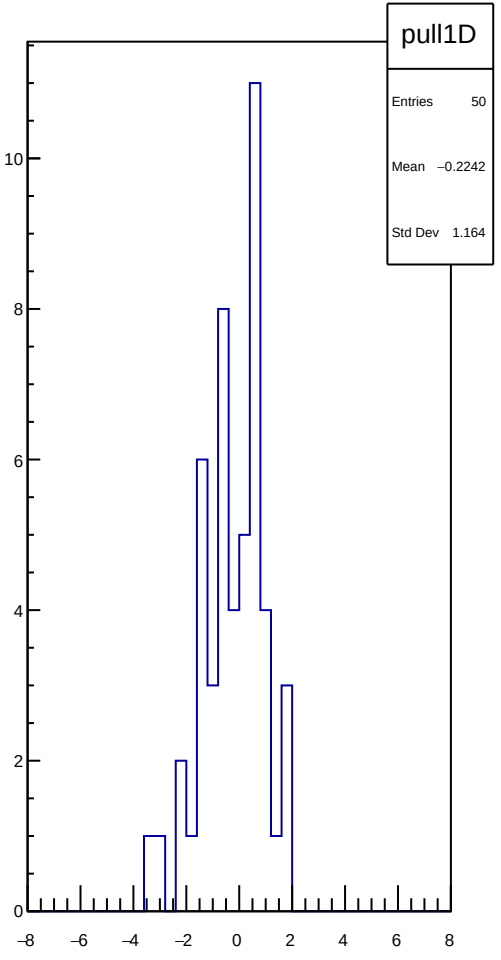

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.67 / 49
p0 −1.857 ± 12.96
500
0
−500
−1000
−1500
−2000
−2500
−3000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 56.1
Std Dev 34.63
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.07004
Std Dev 0.9212
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

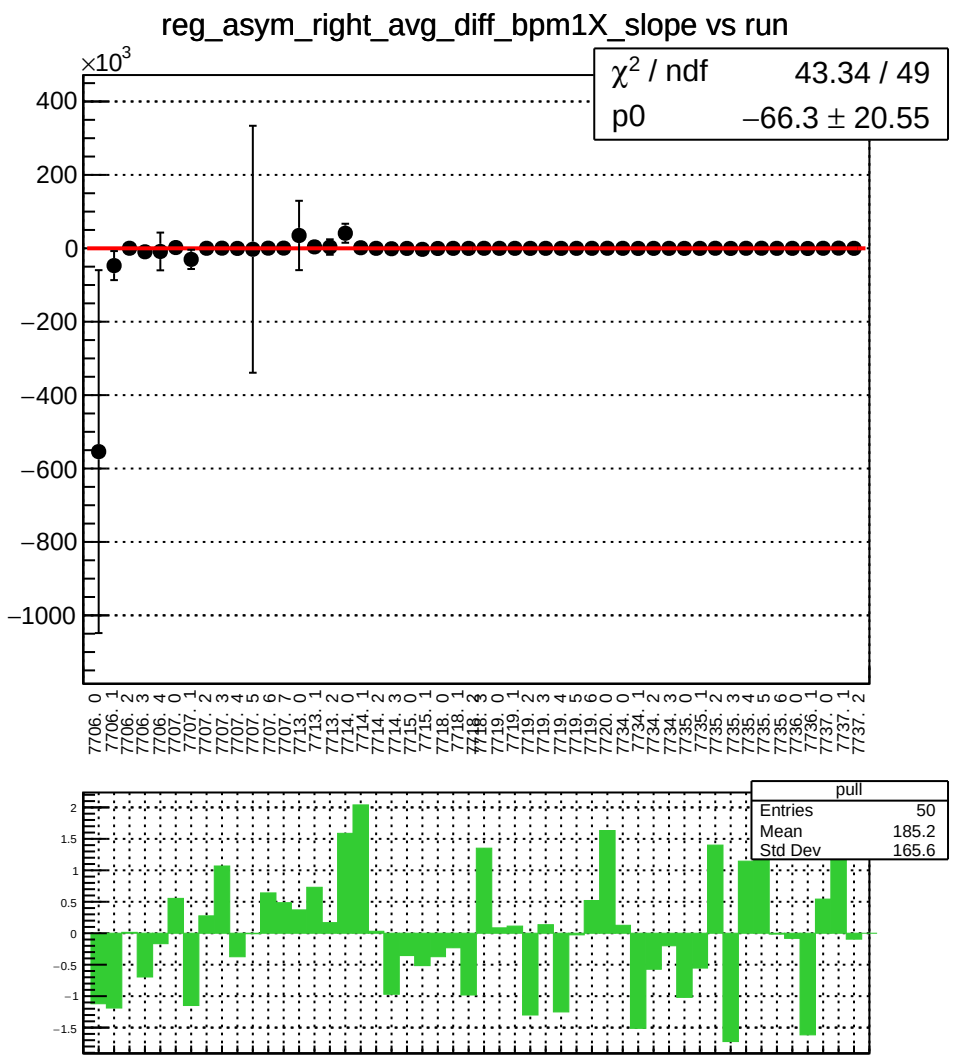

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 81.66 / 49
p0 −2.443 ± 10.46
1500
1000
500
0
−500
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 20.26
Std Dev 6.045
3
2
1
0
−1
−2

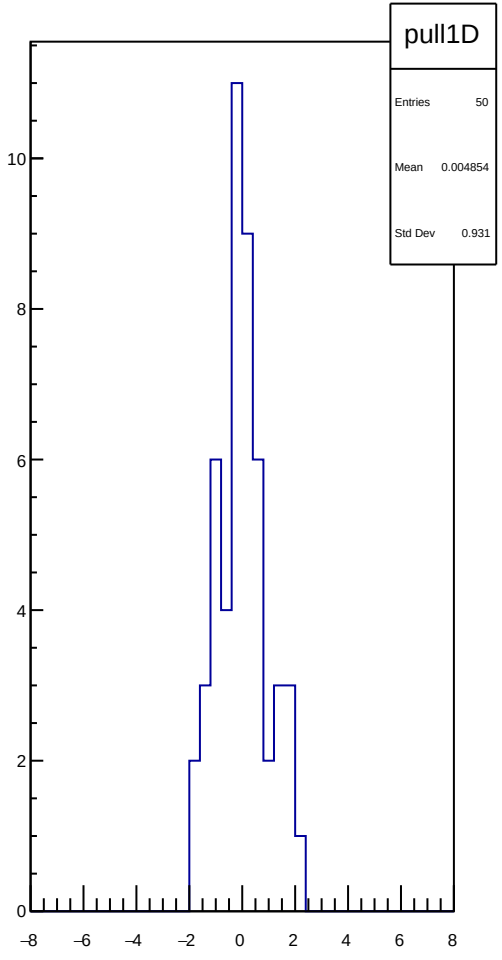

pull1D
Entries 50
Mean 0.08649
Std Dev 1.275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

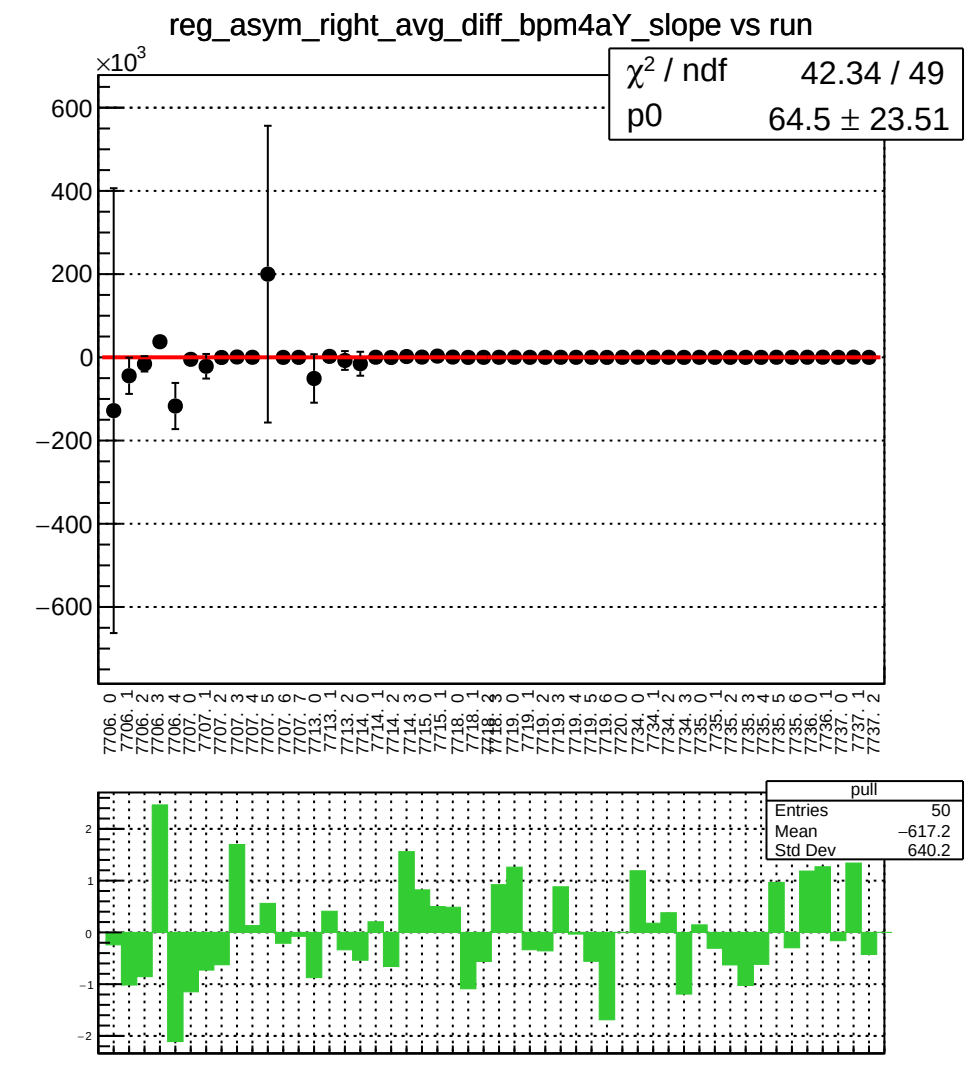

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.2 / 49
p0 14.13 ± 18.2
5000
4000
3000
2000
1000
0
−1000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 49.46
Std Dev 28.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.06802
Std Dev 0.927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

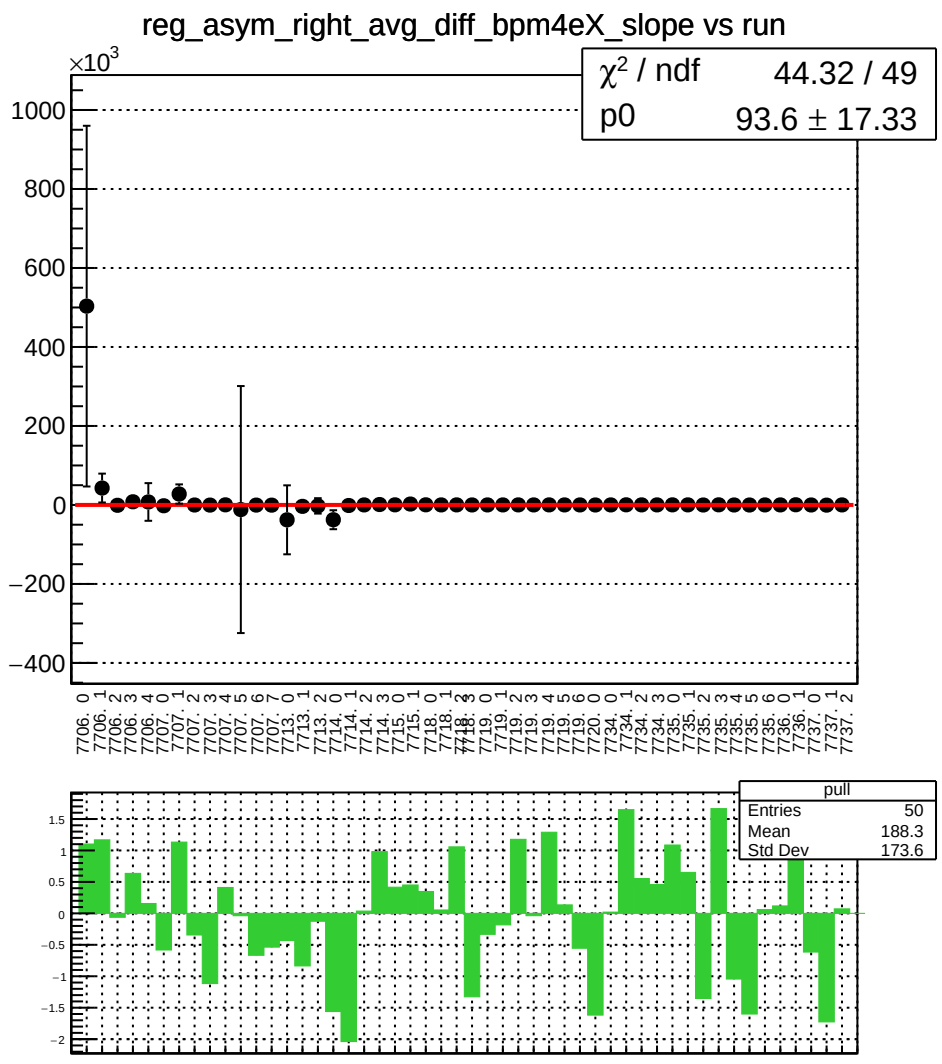

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 70.2 / 49
p0 −17.5 ± 0.6961
pull
Entries 50
Mean 39.02
Std Dev 15.02

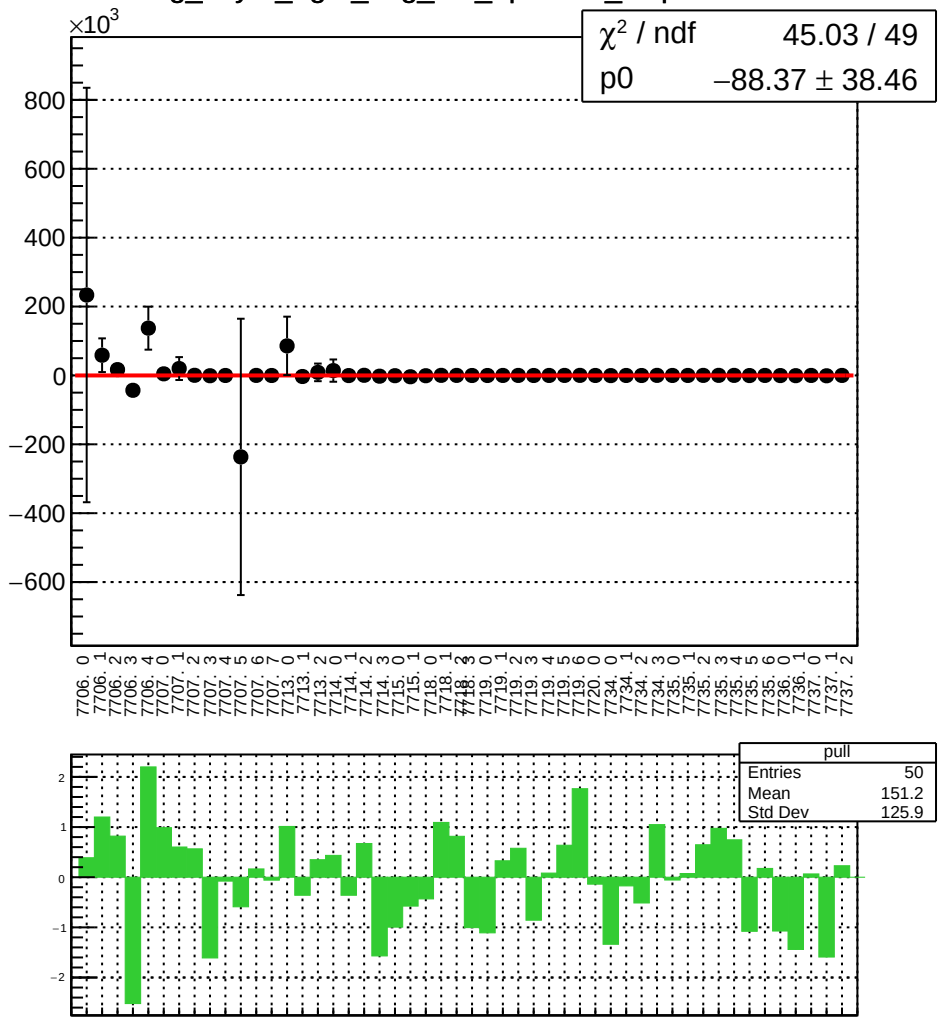

pull1D
Entries 50
Mean −0.2242
Std Dev 1.164

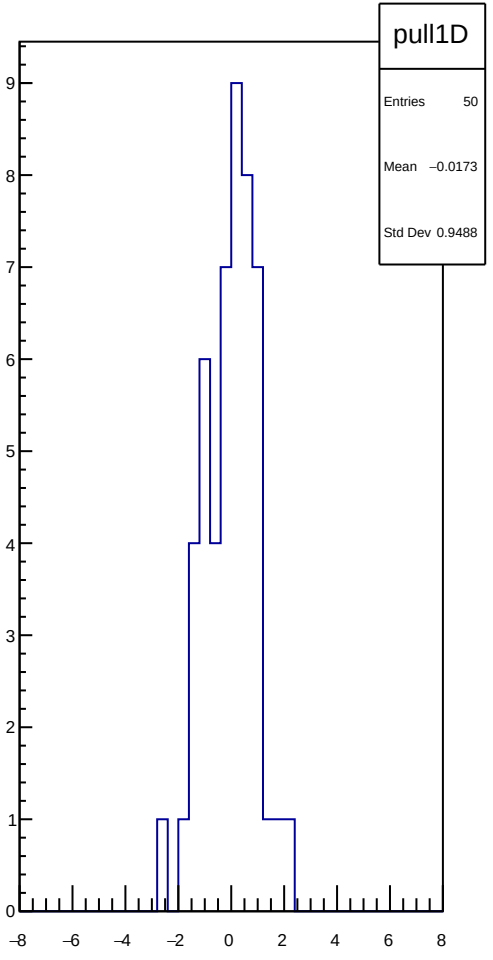

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 43.34 / 49
p0 −66.3 ± 20.55
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 50
Mean 185.2
Std Dev 165.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

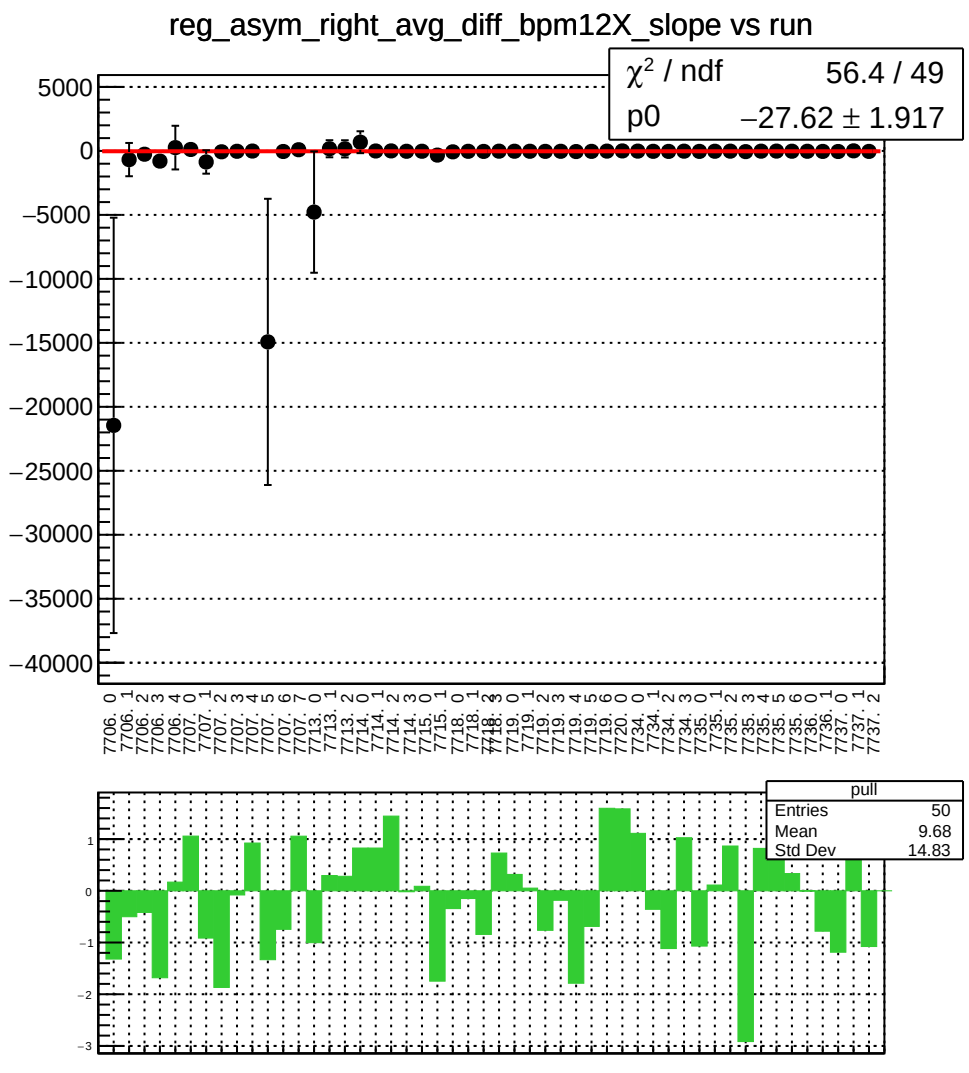

pull1D
Entries 50
Mean 0.004854
Std Dev 0.931
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

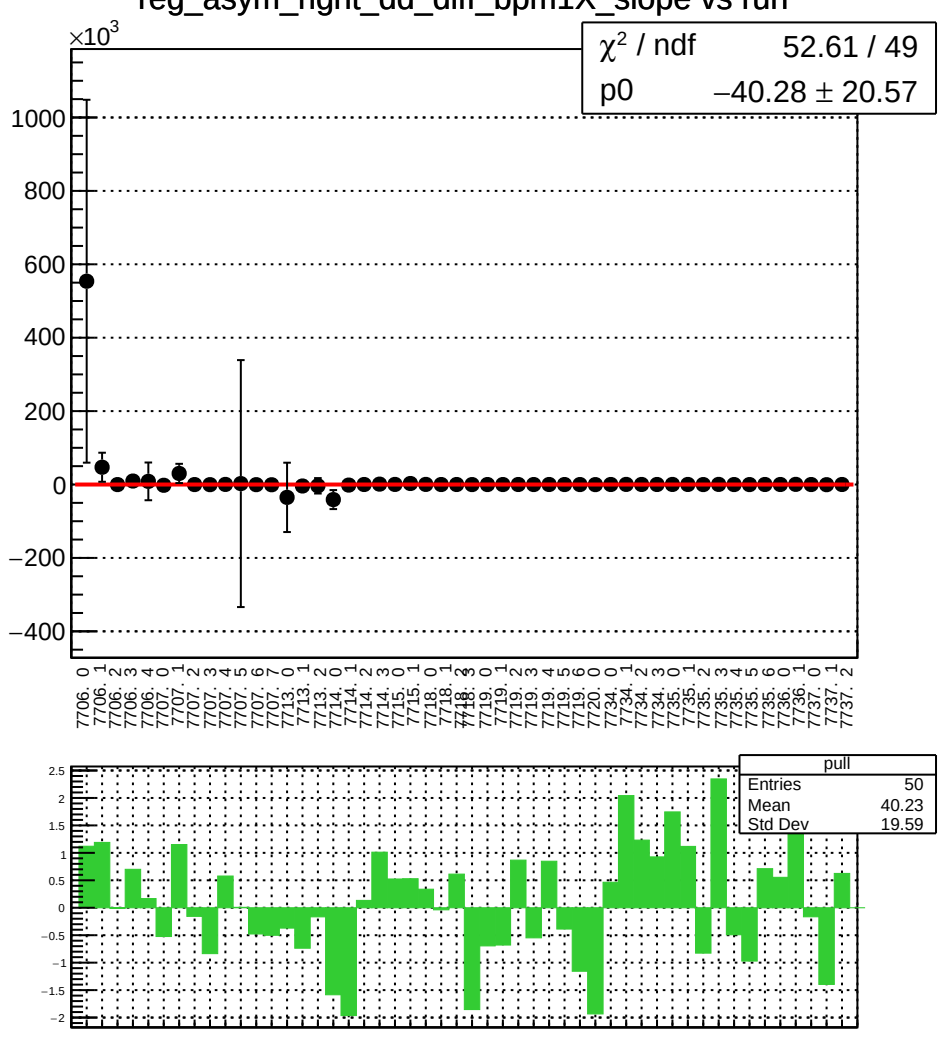

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 42.34 / 49
p0 64.5 ± 23.51
600
400
200
0
−200
−400
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −617.2
Std Dev 640.2
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.002683
Std Dev 0.9203
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

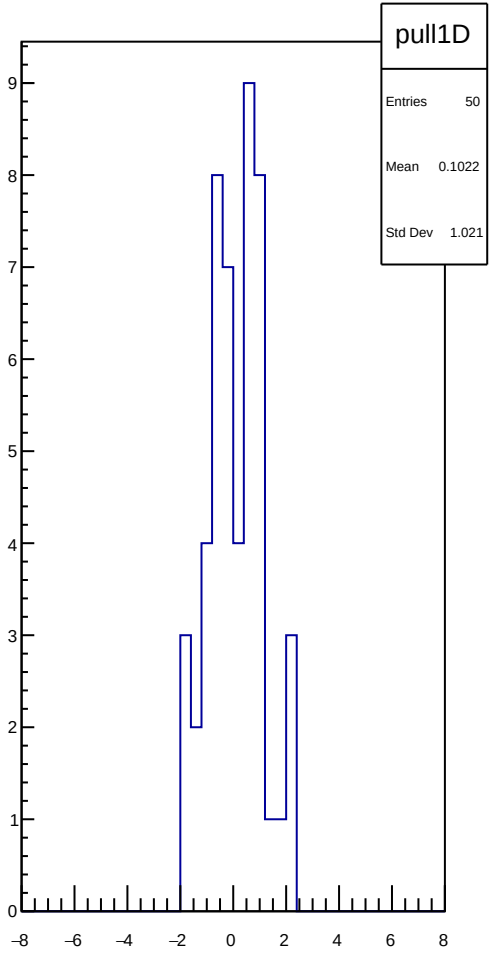

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.32 / 49
p0 93.6 ± 17.33
×10³
1000
800
600
400
200
0
−200
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 188.3
Std Dev 173.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.002397
Std Dev 0.9415
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

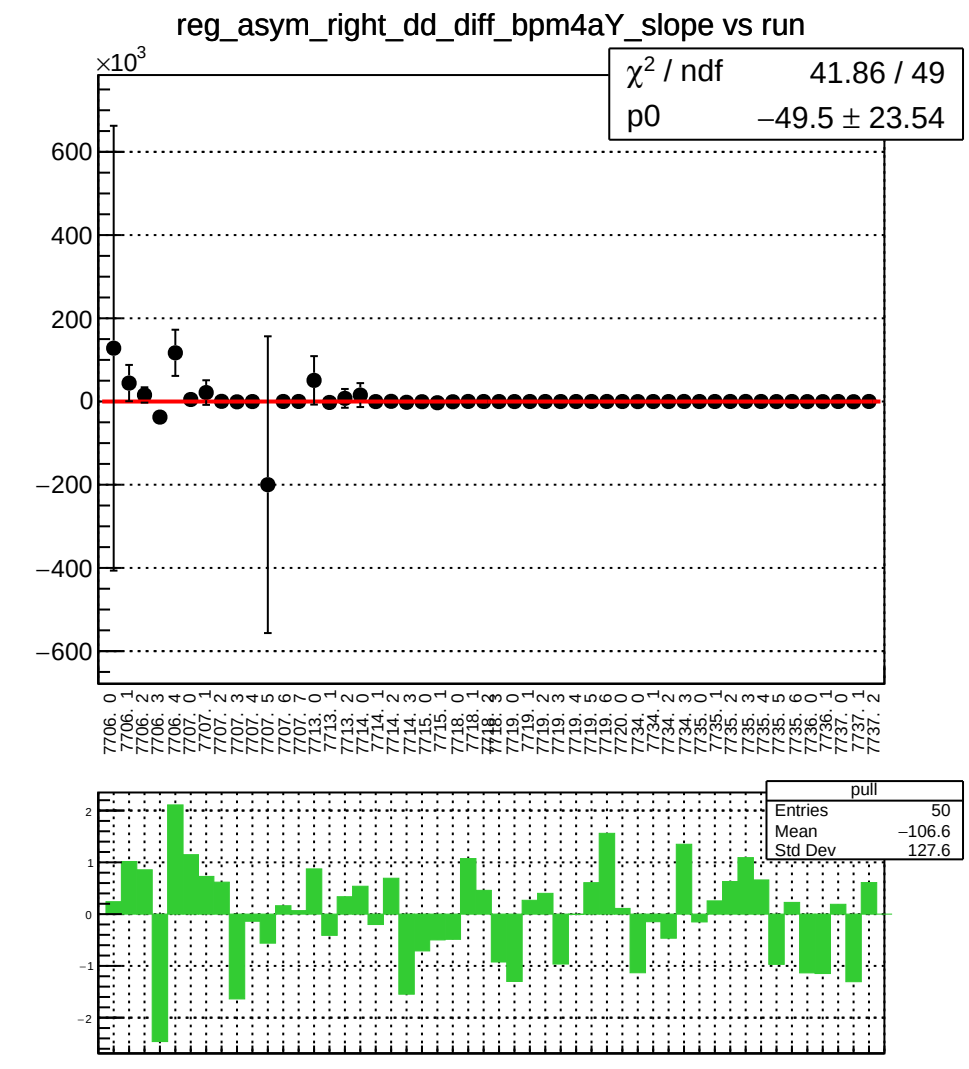

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.03 / 49
p0 −88.37 ± 38.46
×10³
pull
Entries 50
Mean 151.2
Std Dev 125.9

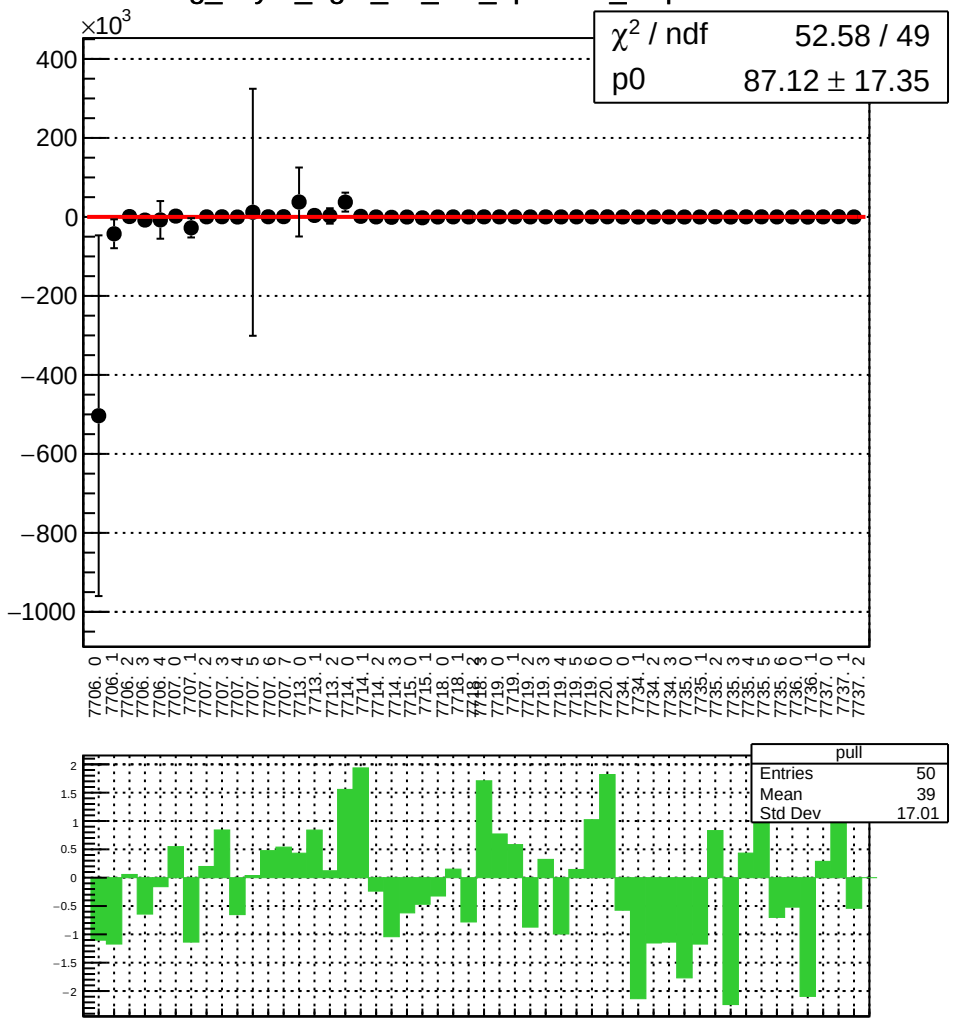

pull1D
Entries 50
Mean −0.0173
Std Dev 0.9488

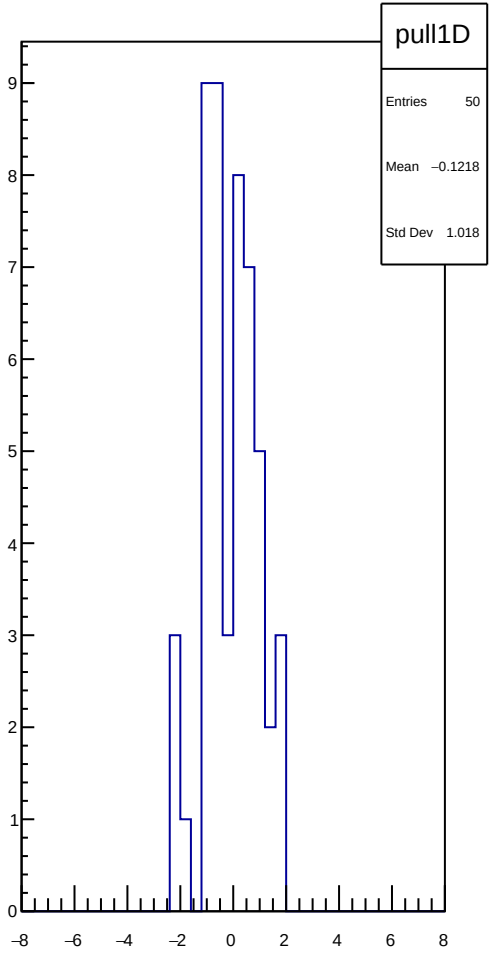

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 56.4 / 49
p0 −27.62 ± 1.917
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
−35000
−40000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 9.68
Std Dev 14.83
1
0
−1
−2
−3
pull1D
Entries 50
Mean −0.124
Std Dev 1.055
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

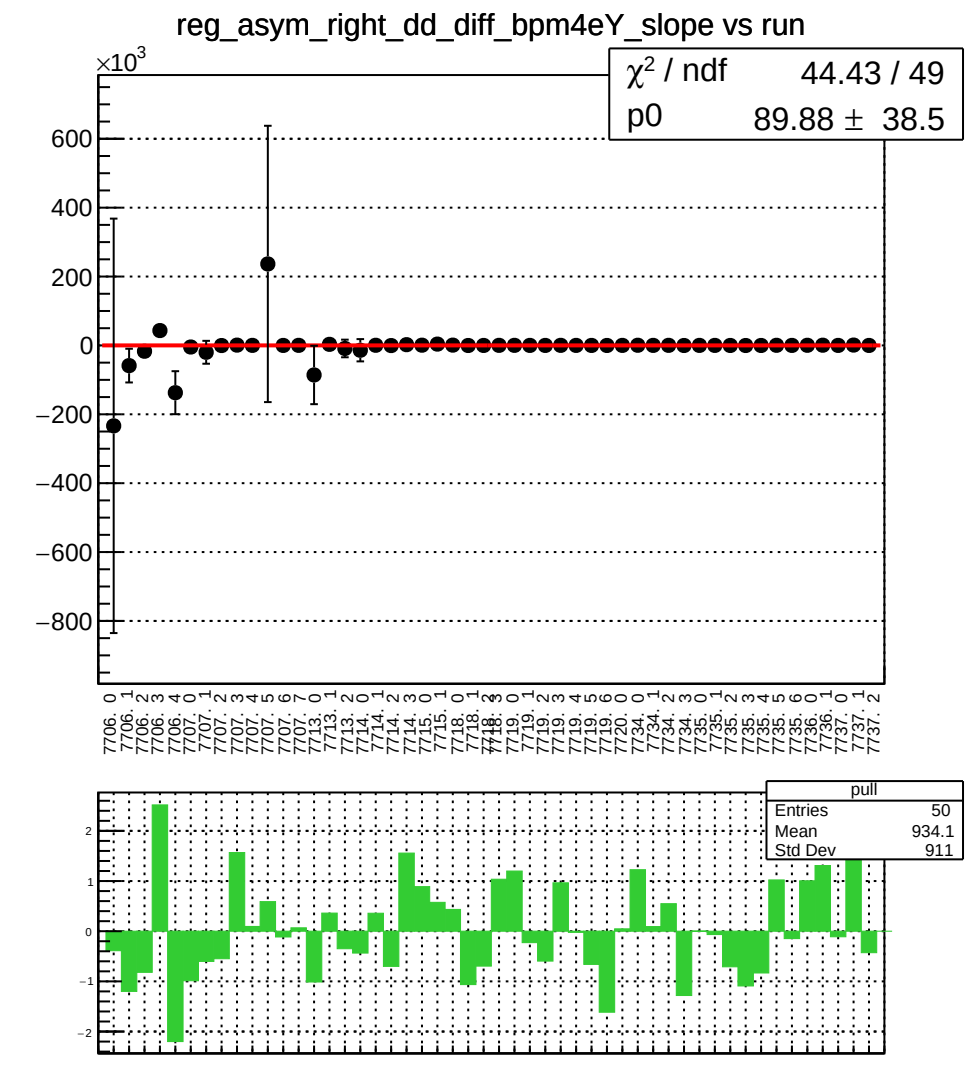

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 52.61 / 49
p0 −40.28 ± 20.57
1000
800
600
400
200
0
−200
−400
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7707. 0
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 40.23
Std Dev 19.59
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

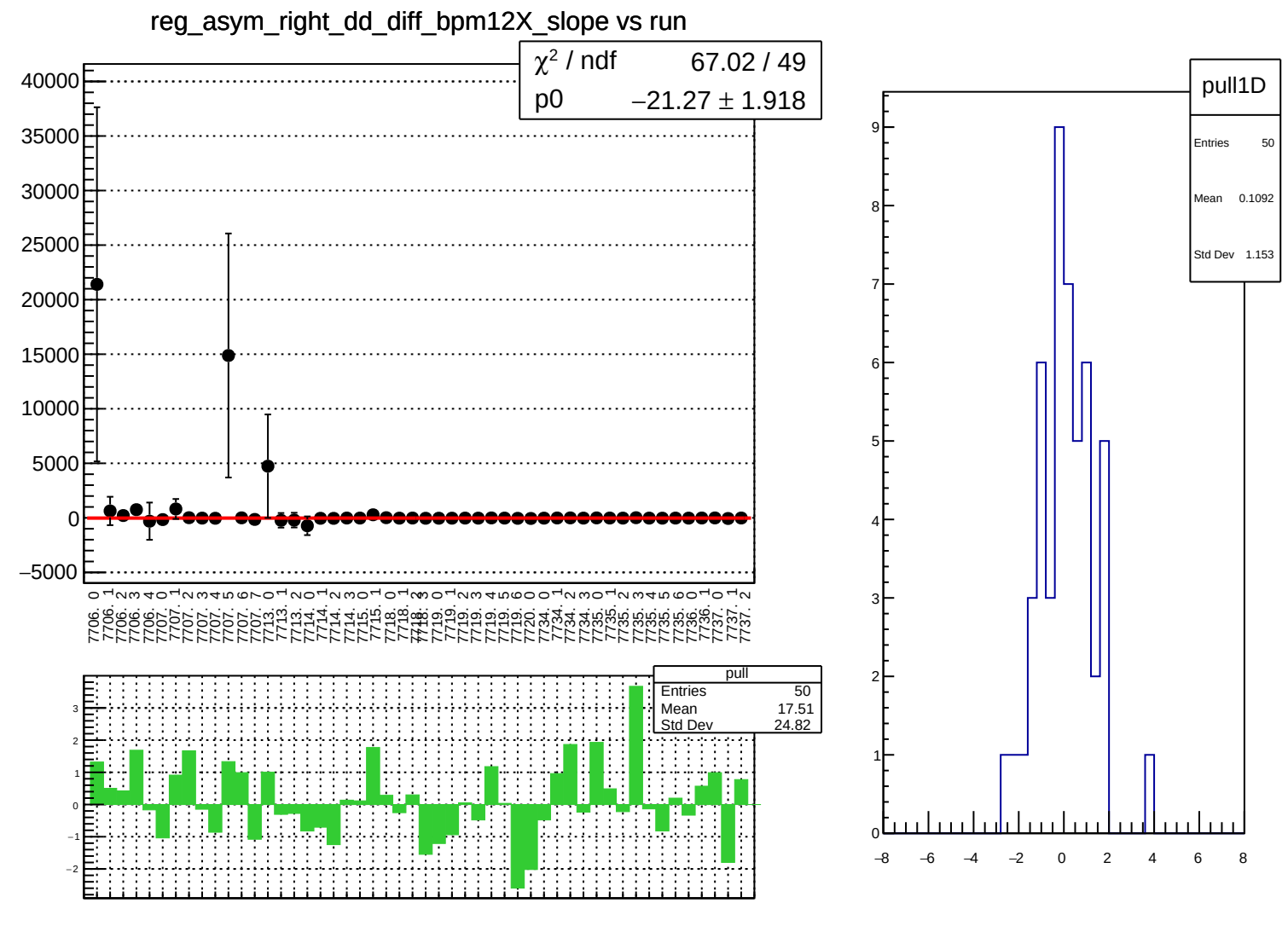

pull1D
Entries 50
Mean 0.1022
Std Dev 1.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

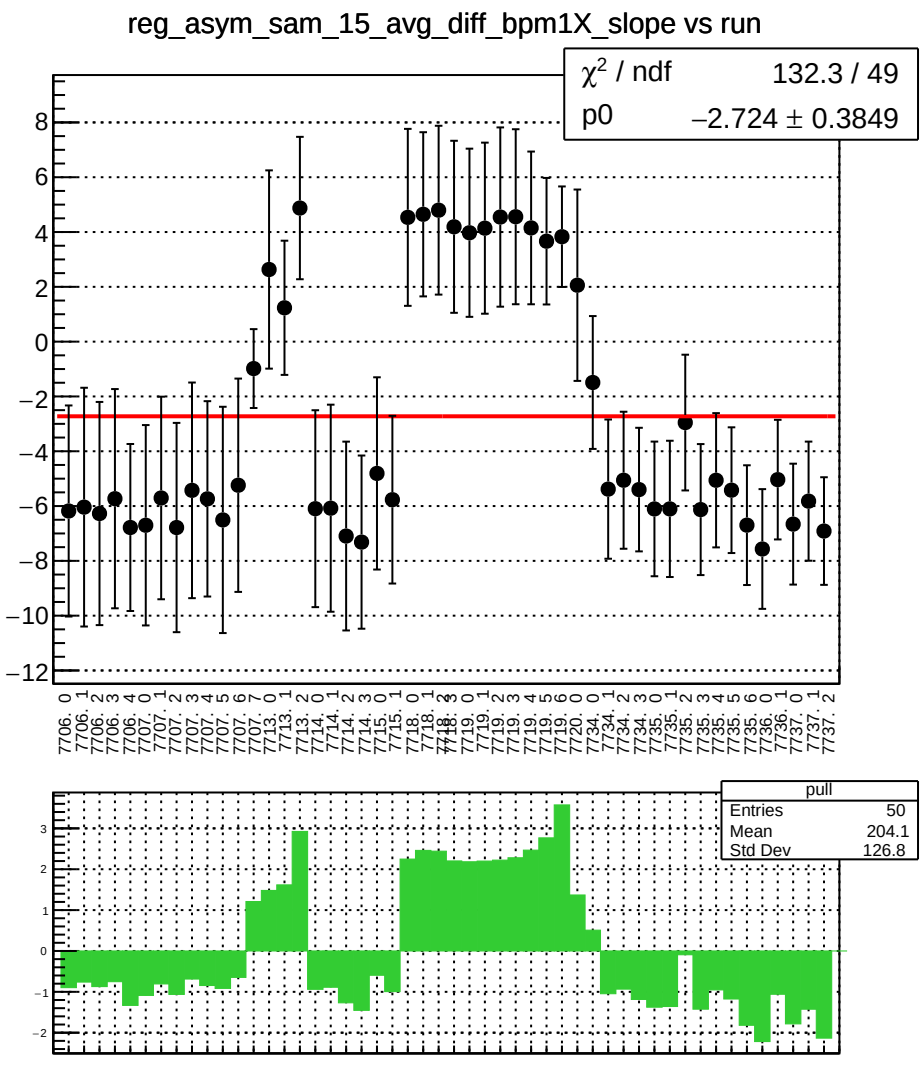

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 41.86 / 49
p0 −49.5 ± 23.54
600
400
200
0
−200
−400
−600
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −106.6
Std Dev 127.6
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.01159
Std Dev 0.915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

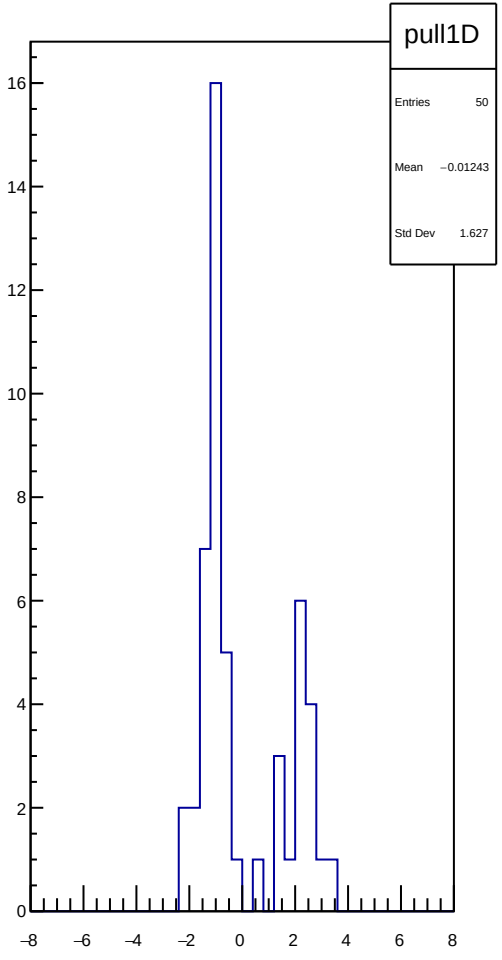

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 52.58 / 49
p0 87.12 ± 17.35
pull
Entries 50
Mean 39
Std Dev 17.01

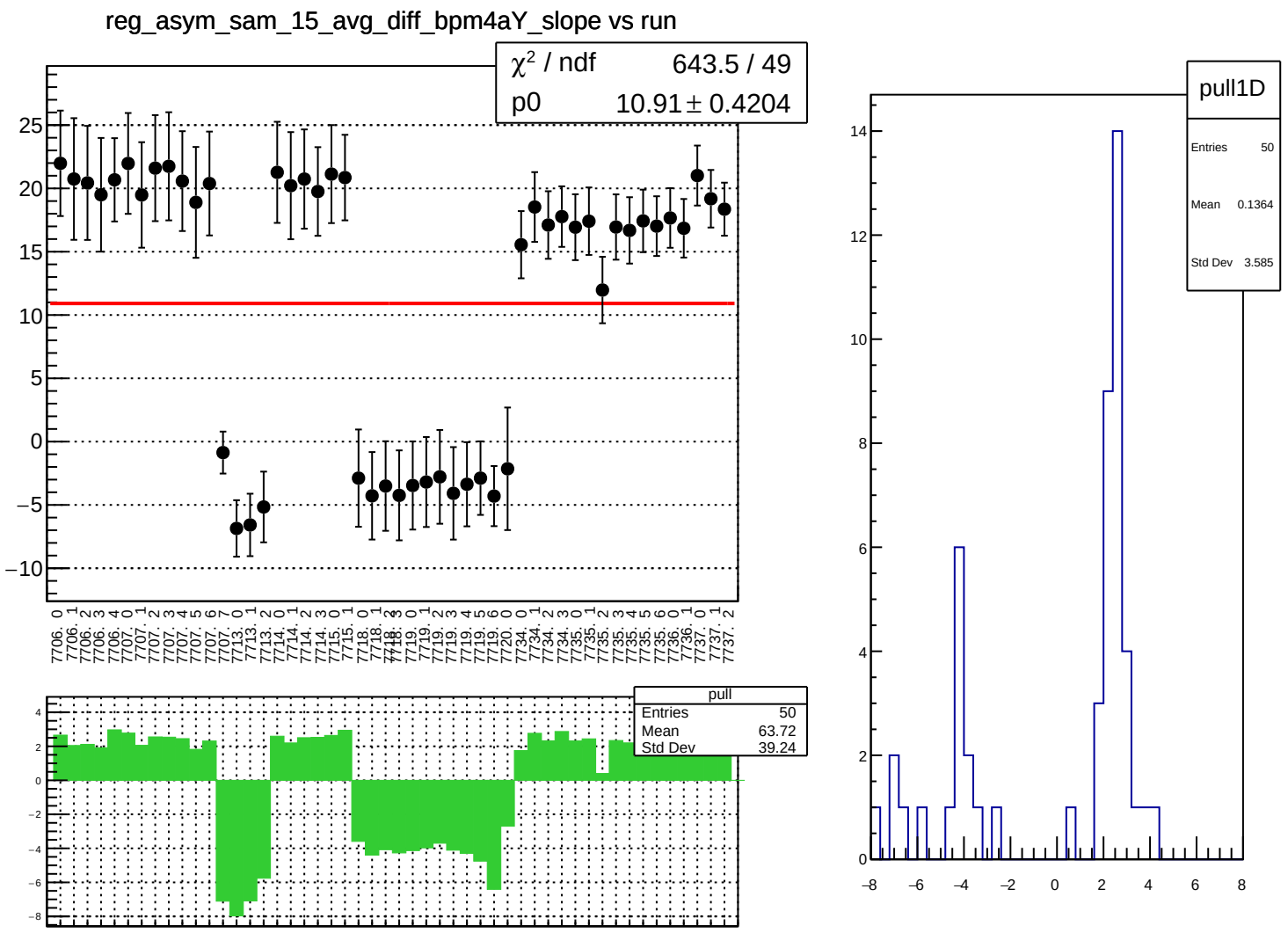

pull1D
Entries 50
Mean −0.1218
Std Dev 1.018

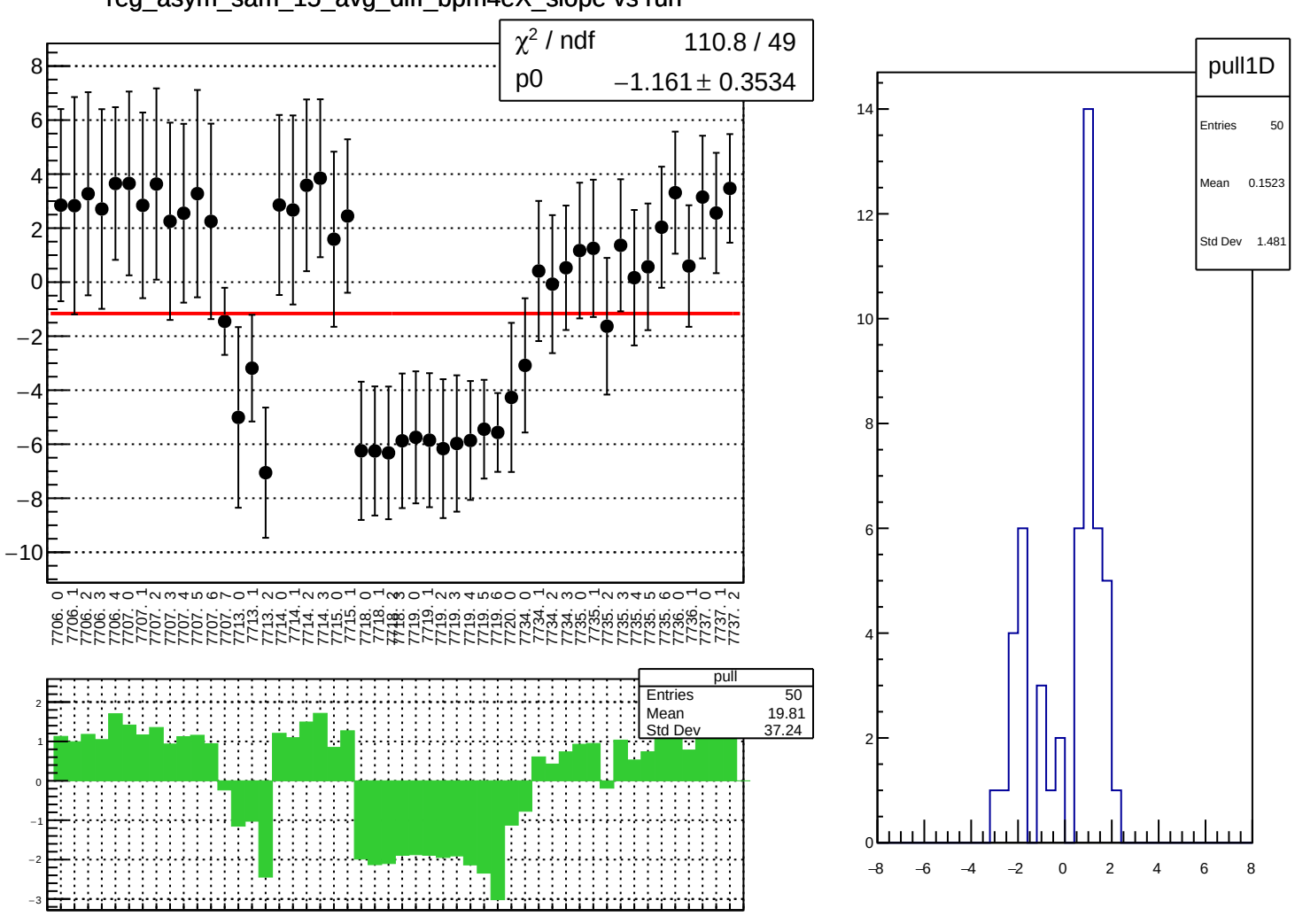

reg_asym_right_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 44.43 / 49
p0 89.88 ± 38.5
600
400
200
0
−200
−400
−600
−800
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 934.1
Std Dev 911
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.001963
Std Dev 0.9427
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

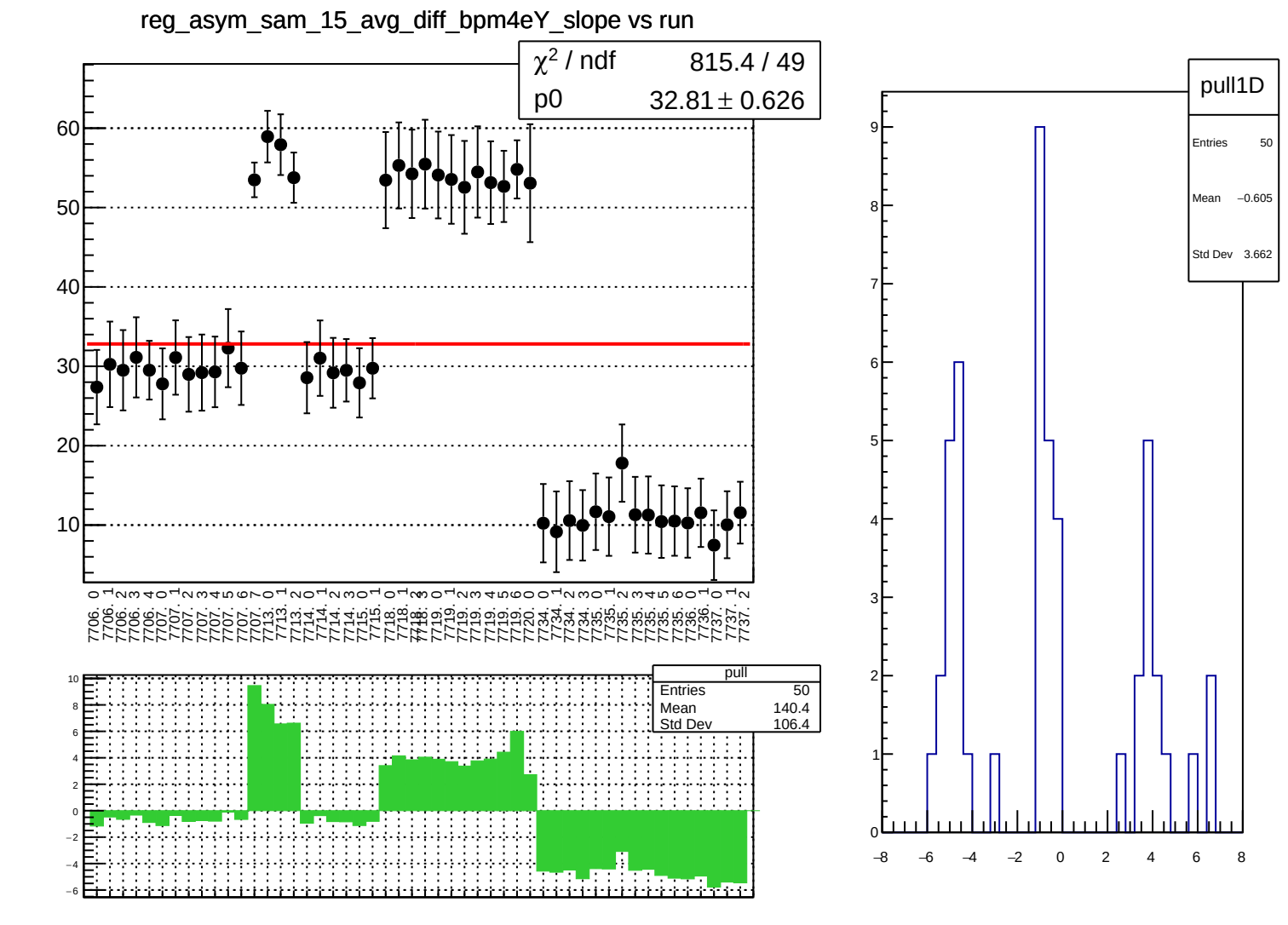

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 67.02 / 49
p0 −21.27 ± 1.918
40000
35000
30000
25000
20000
15000
10000
5000
0
−5000
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 17.51
Std Dev 24.82
3
2
1
0
−1
−2
pull1D
Entries 50
Mean 0.1092
Std Dev 1.153
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

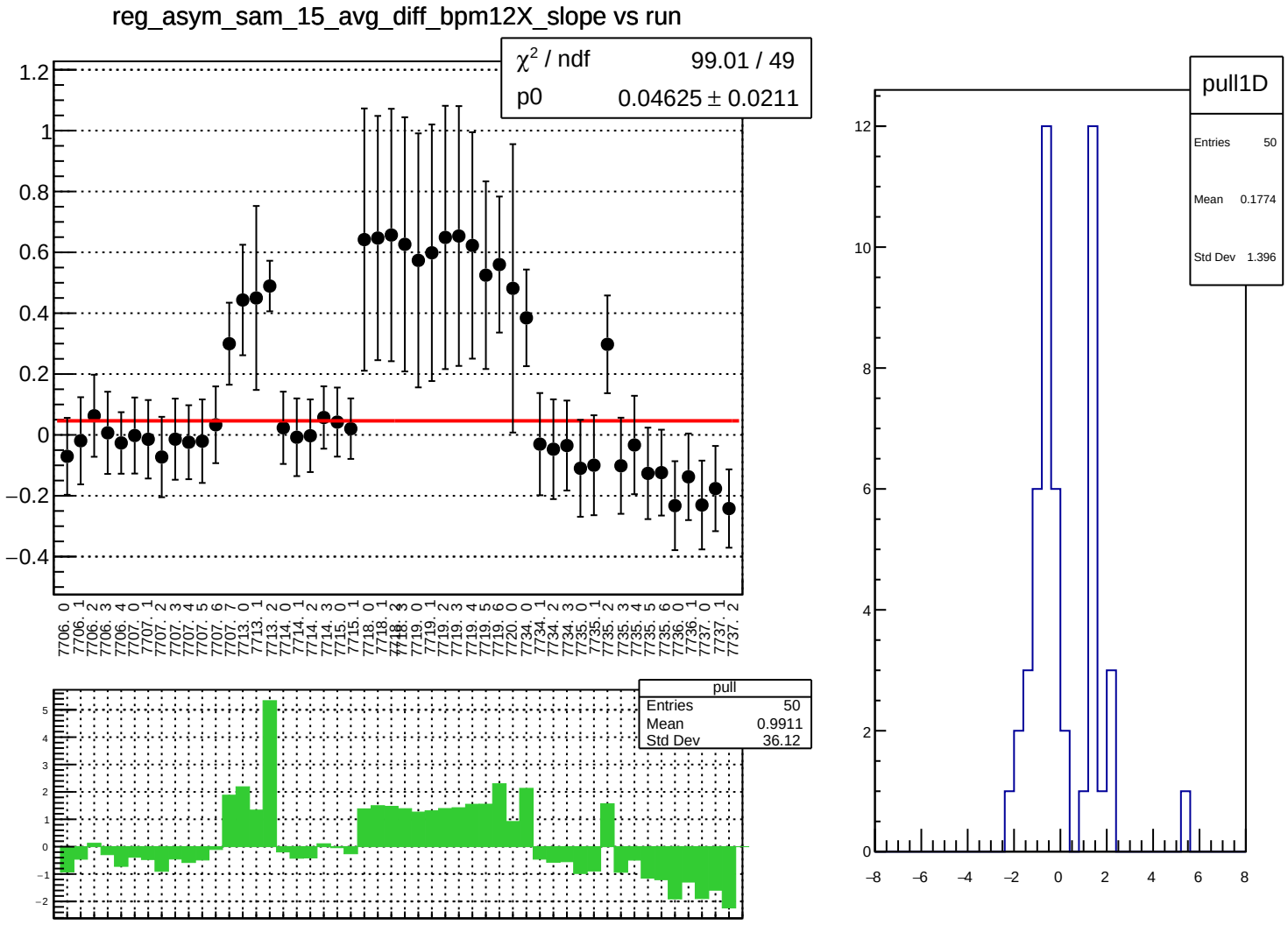

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 132.3 / 49
p0 −2.724 ± 0.3849
pull
Entries 50
Mean 204.1
Std Dev 126.8

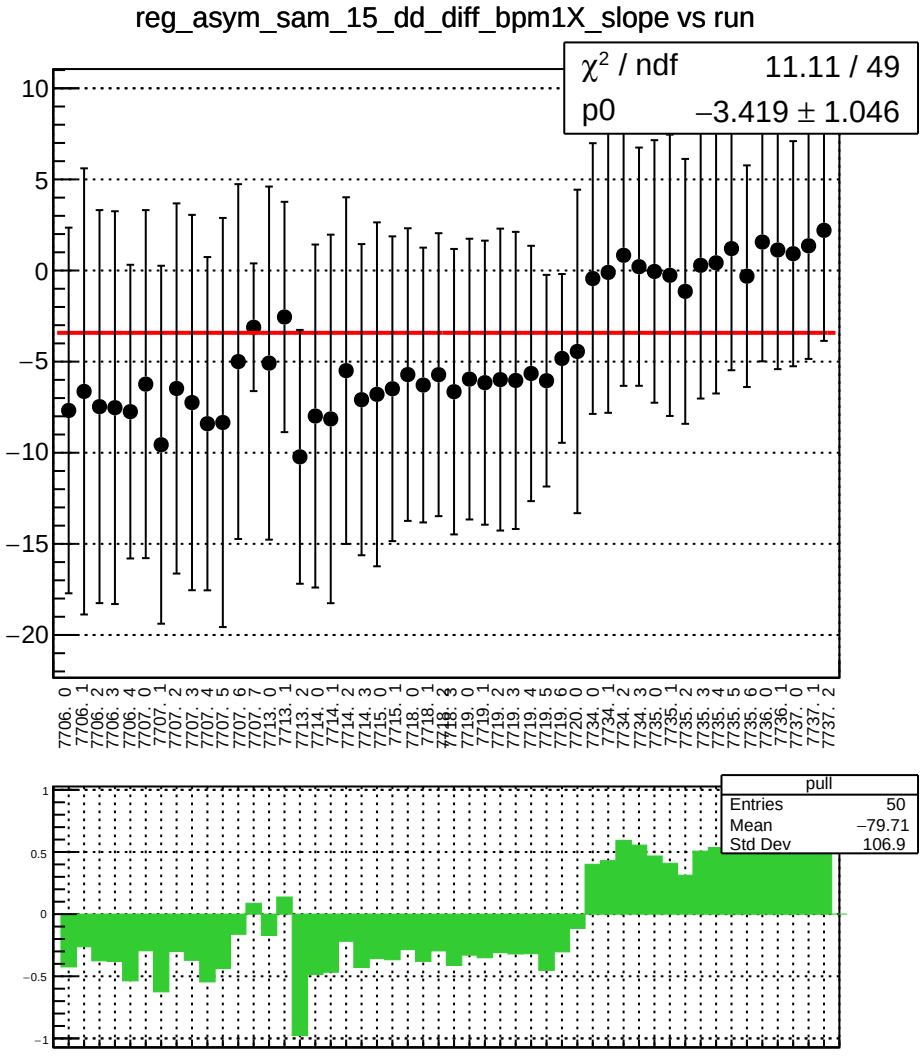

pull1D
Entries 50
Mean −0.01243
Std Dev 1.627

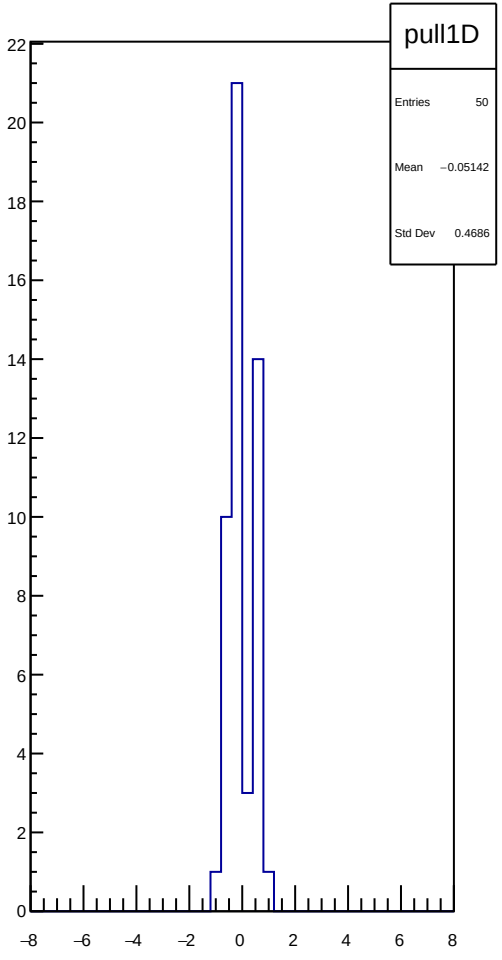

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 643.5 / 49
p0 10.91 ± 0.4204
pull
Entries 50
Mean 63.72
Std Dev 39.24
pull1D
Entries 50
Mean 0.1364
Std Dev 3.585

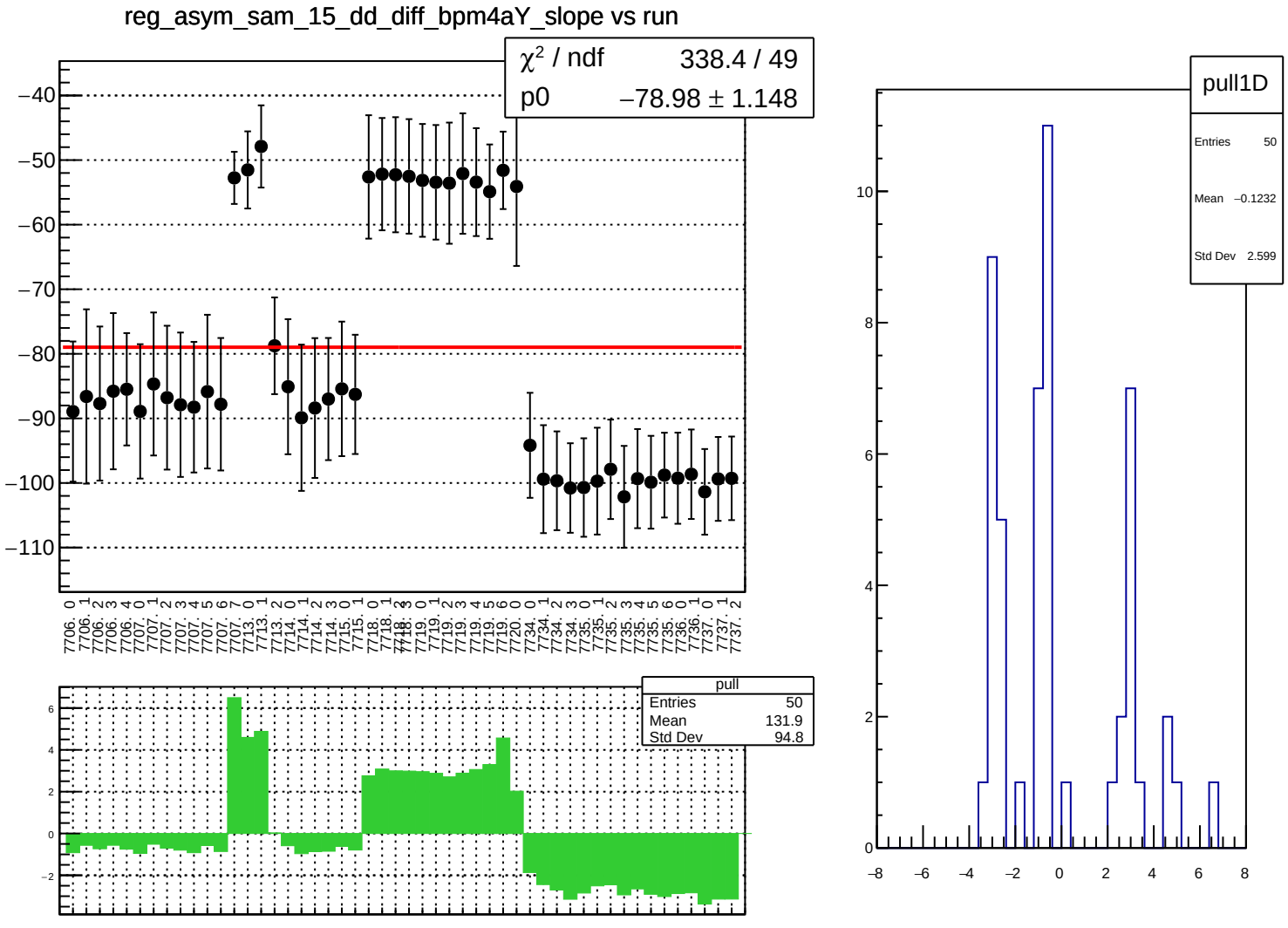

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.8 / 49
p0 −1.161 ± 0.3534
pull
Entries 50
Mean 19.81
Std Dev 37.24
pull1D
Entries 50
Mean 0.1523
Std Dev 1.481

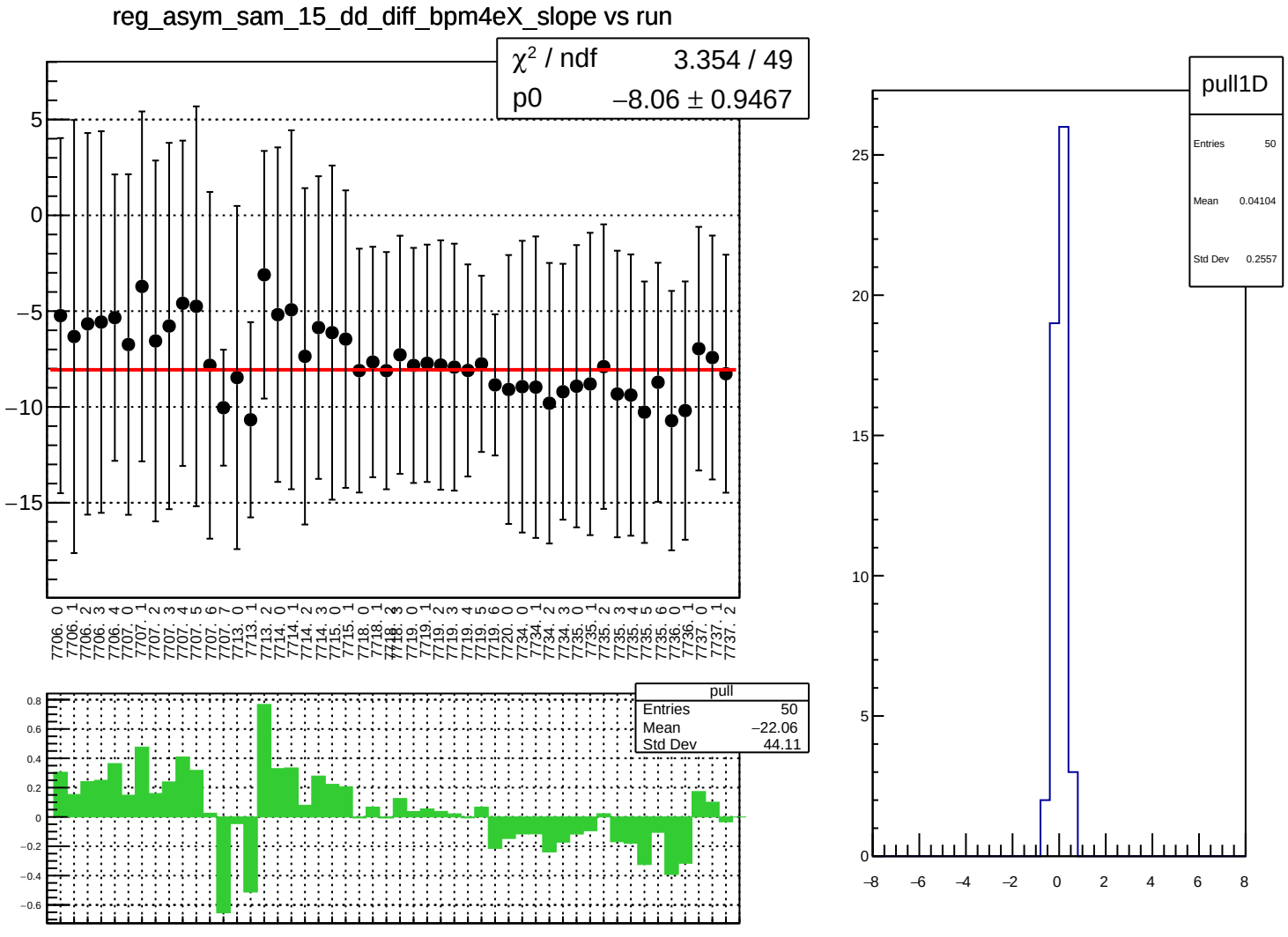

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 815.4 / 49
p0 32.81 ± 0.626
pull
Entries 50
Mean 140.4
Std Dev 106.4
pull1D
Entries 50
Mean −0.605
Std Dev 3.662

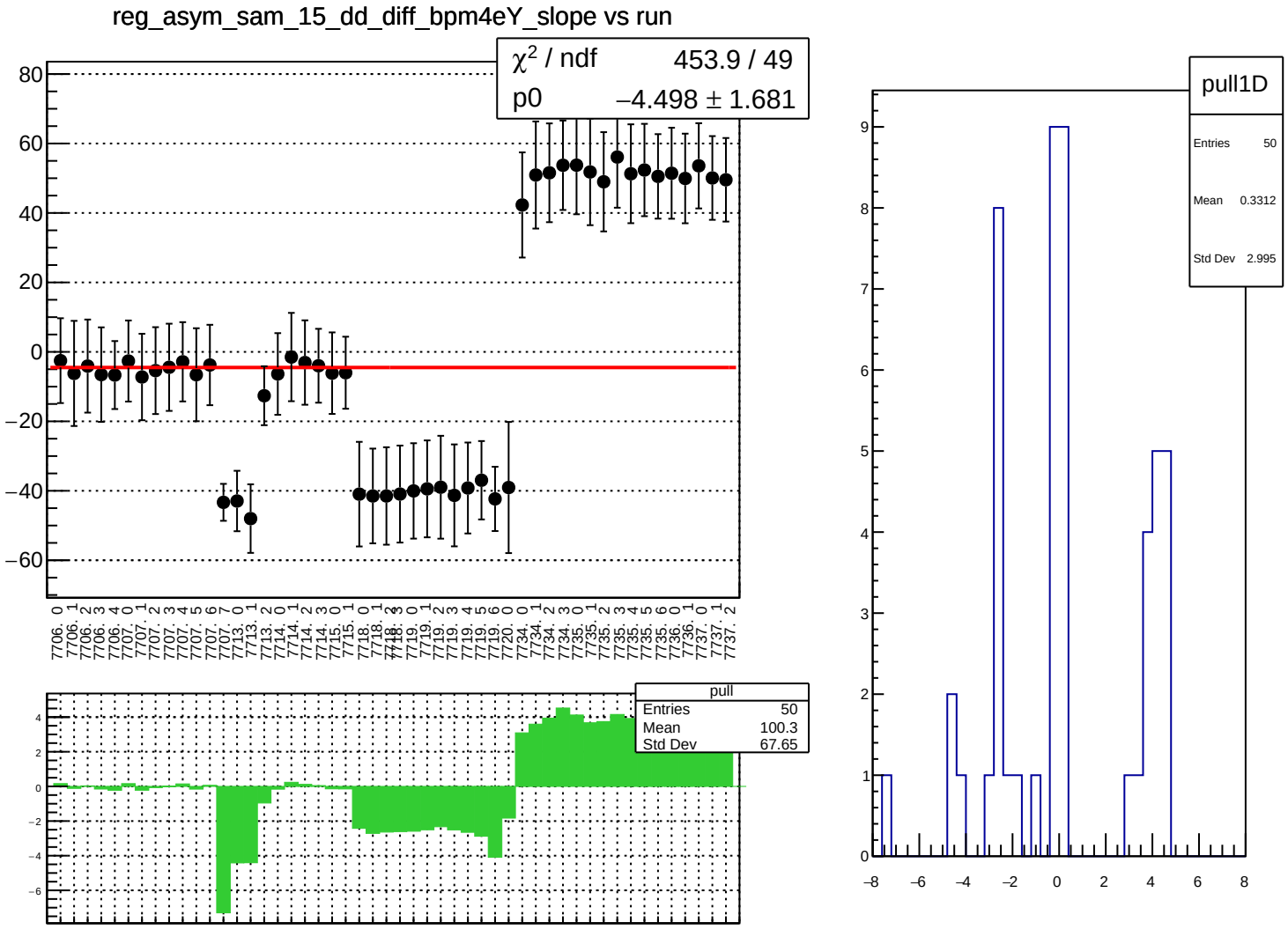

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 99.01 / 49
p0 0.04625 ± 0.0211
pull
Entries 50
Mean 0.9911
Std Dev 36.12
pull1D
Entries 50
Mean 0.1774
Std Dev 1.396

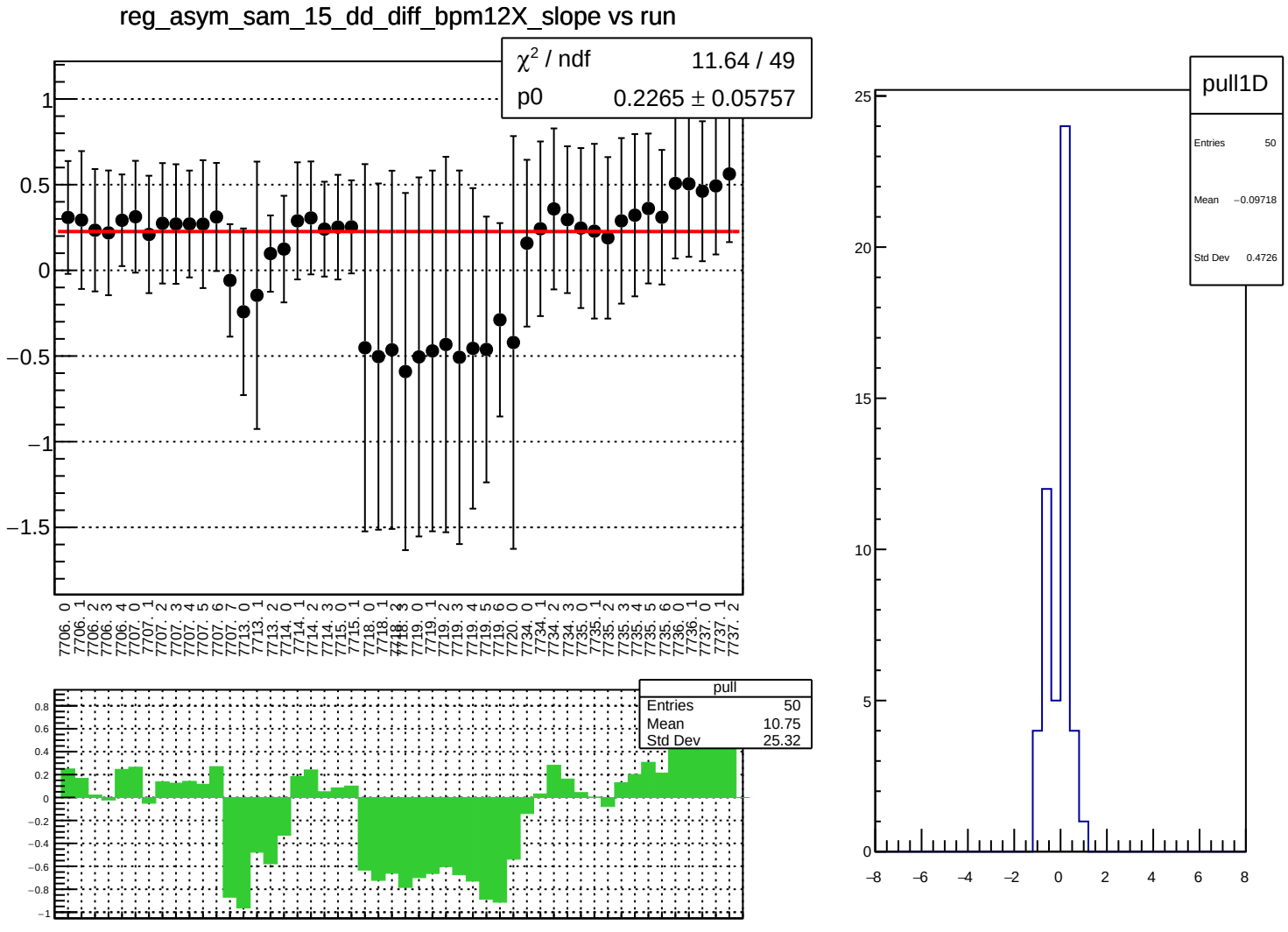

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 11.11 / 49
p0 −3.419 ± 1.046
pull
Entries 50
Mean −79.71
Std Dev 106.9

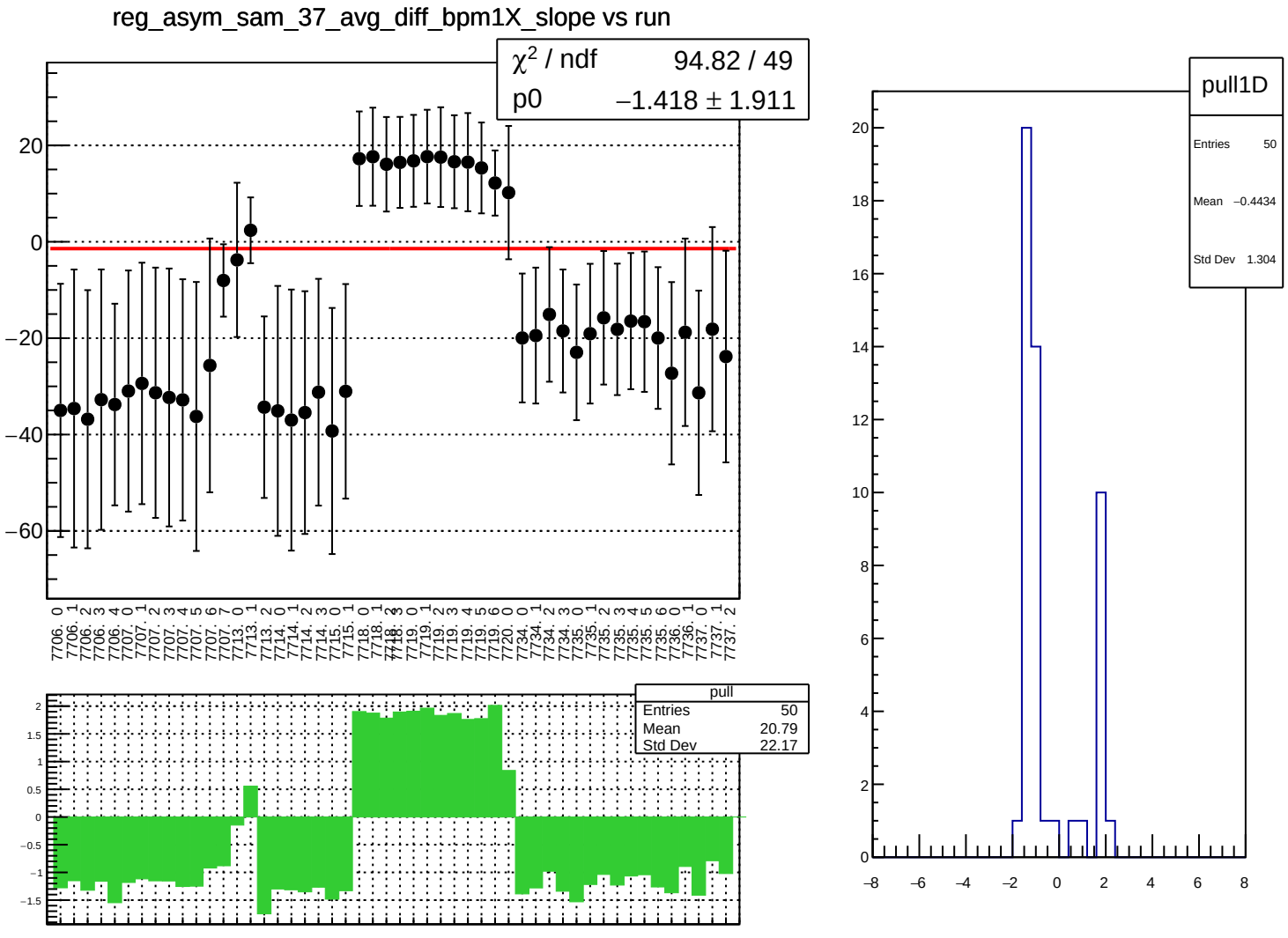

pull1D
Entries 50
Mean −0.05142
Std Dev 0.4686

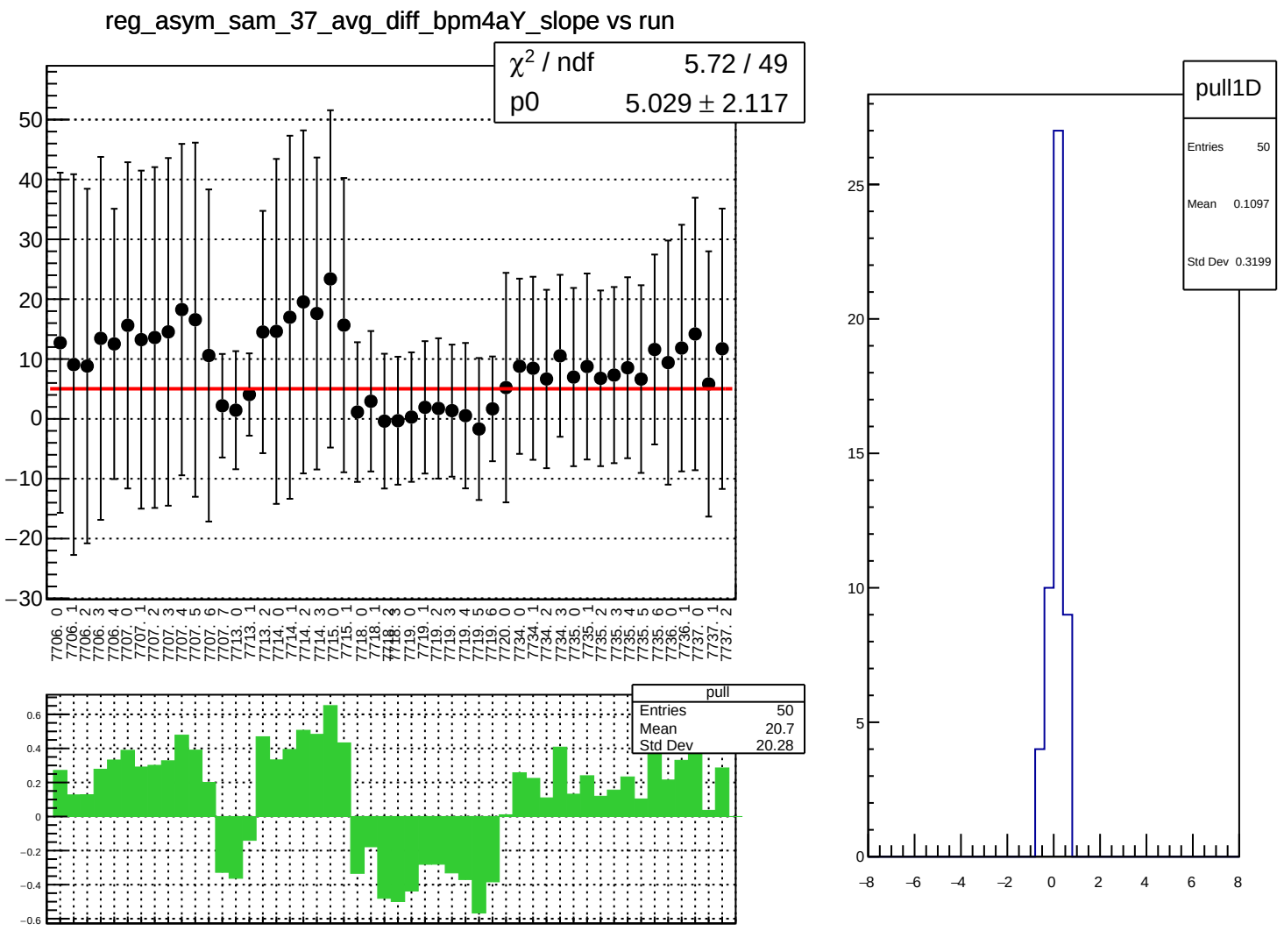

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 338.4 / 49
p0 −78.98 ± 1.148
−40
−50
−60
−70
−80
−90
−100
−110
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 131.9
Std Dev 94.8
6
4
2
0
−2
pull1D
Entries 50
Mean −0.1232
Std Dev 2.599
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

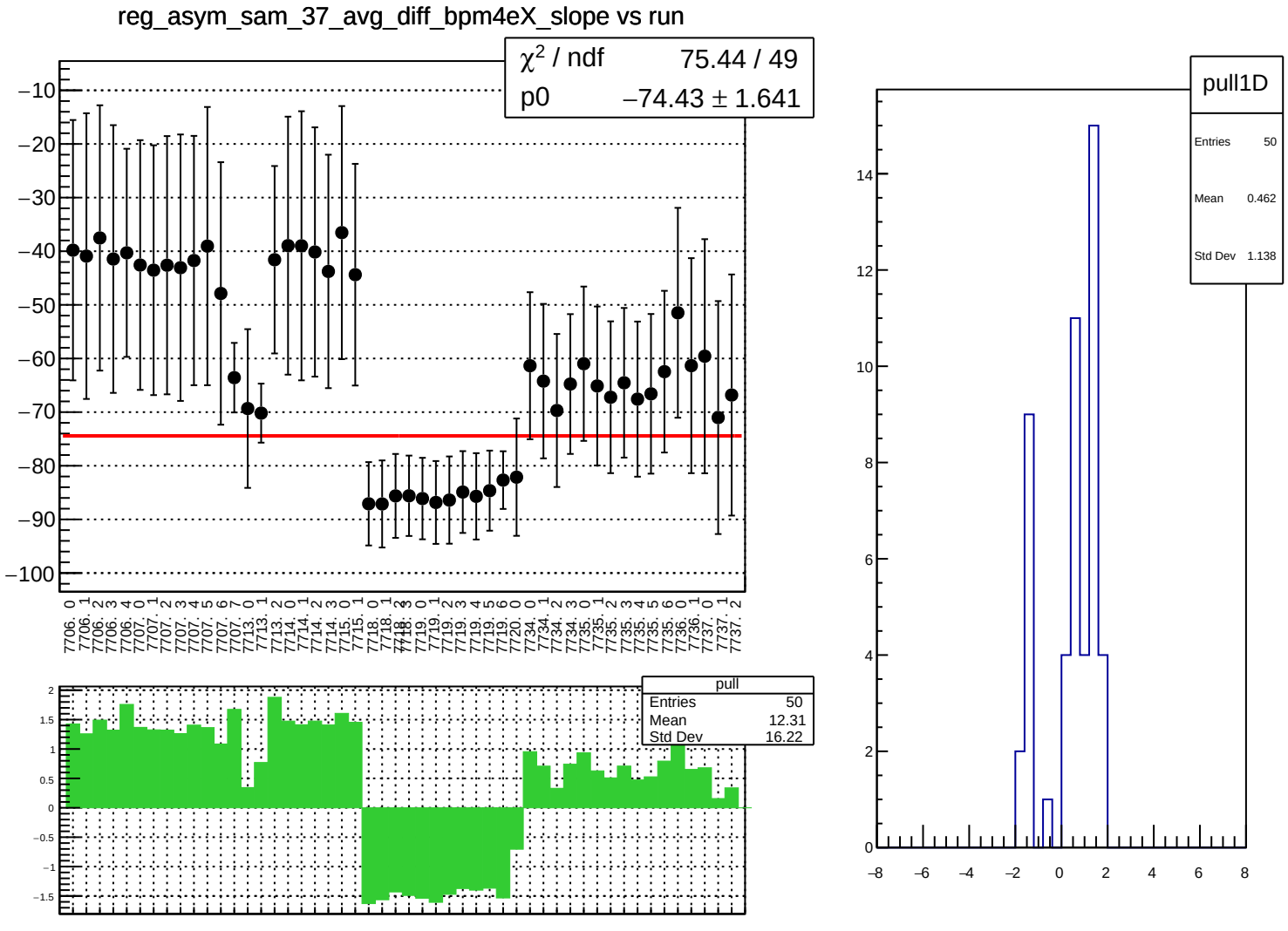

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.354 / 49
p0 −8.06 ± 0.9467
pull
Entries 50
Mean −22.06
Std Dev 44.11
pull1D
Entries 50
Mean 0.04104
Std Dev 0.2557

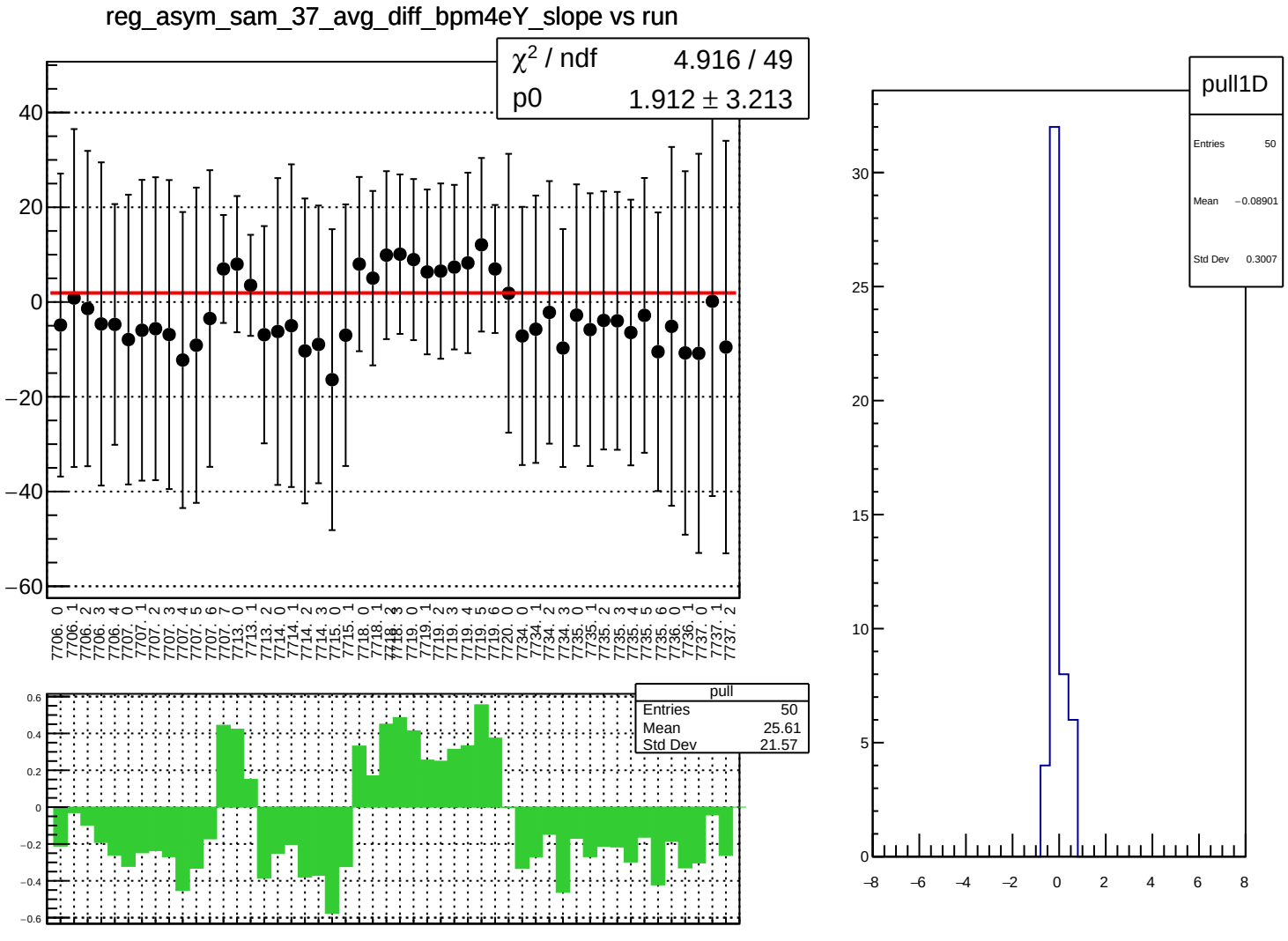

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 453.9 / 49
p0 −4.498 ± 1.681
pull
Entries 50
Mean 100.3
Std Dev 67.65
pull1D
Entries 50
Mean 0.3312
Std Dev 2.995

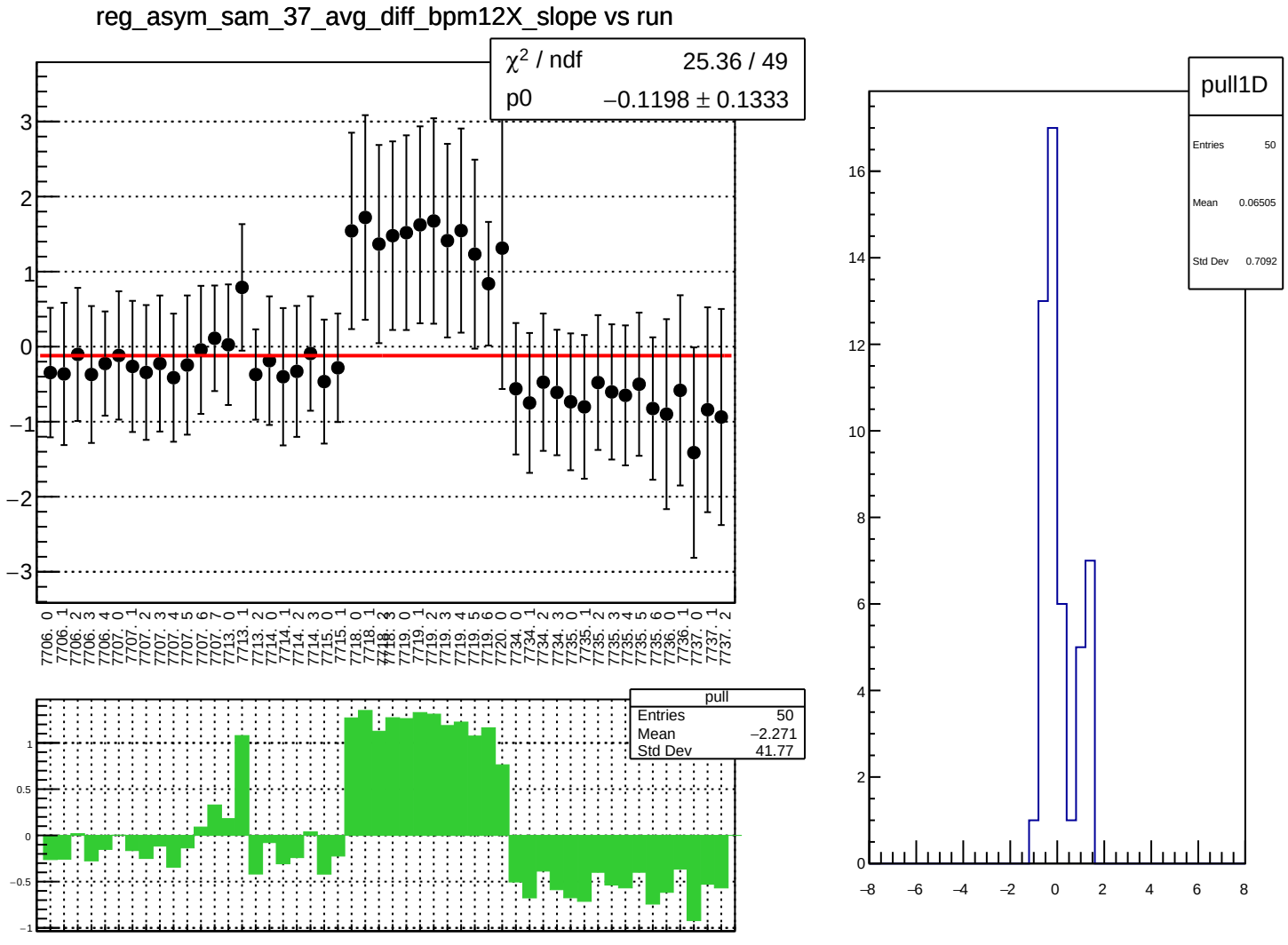

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.64 / 49
p0 0.2265 ± 0.05757
pull
Entries 50
Mean 10.75
Std Dev 25.32
pull1D
Entries 50
Mean −0.09718
Std Dev 0.4726

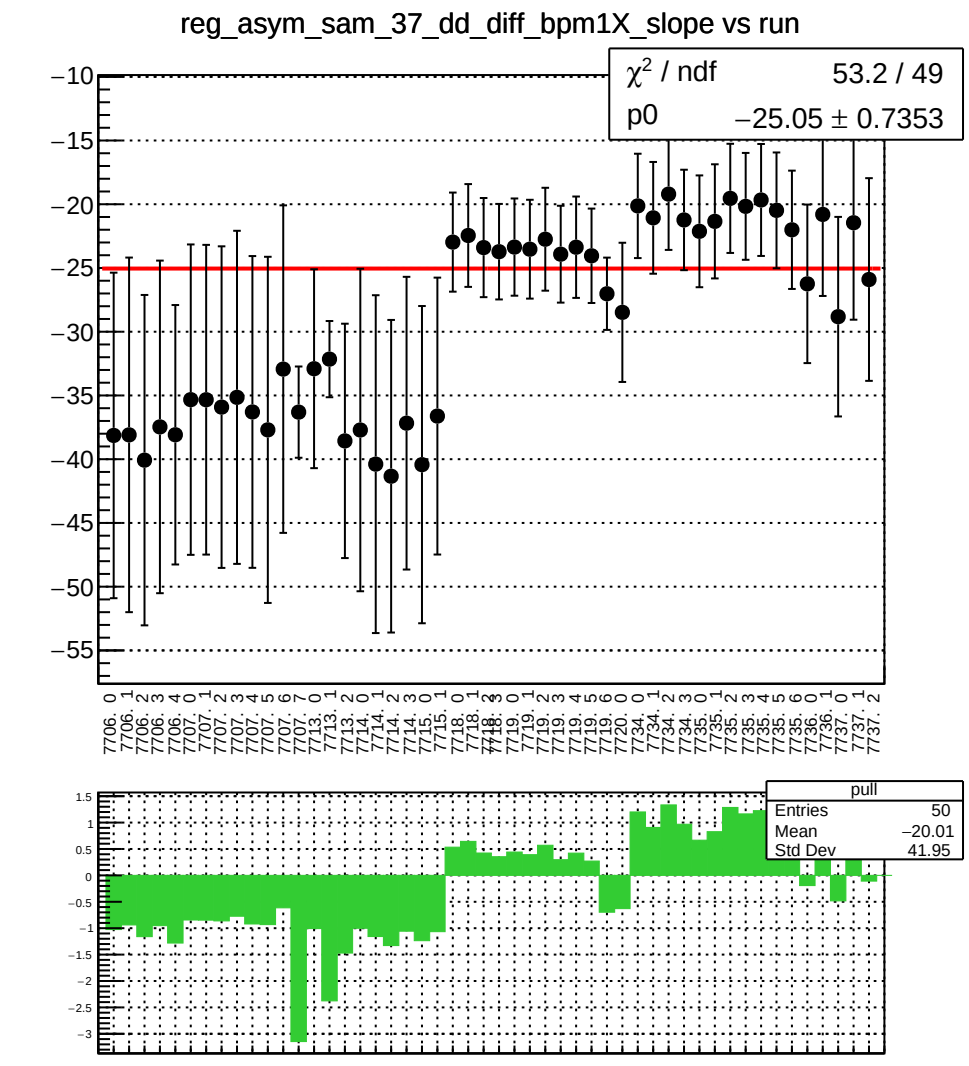

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 94.82 / 49
p0 −1.418 ± 1.911
20
0
−20
−40
−60
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 20.79
Std Dev 22.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean −0.4434
Std Dev 1.304
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

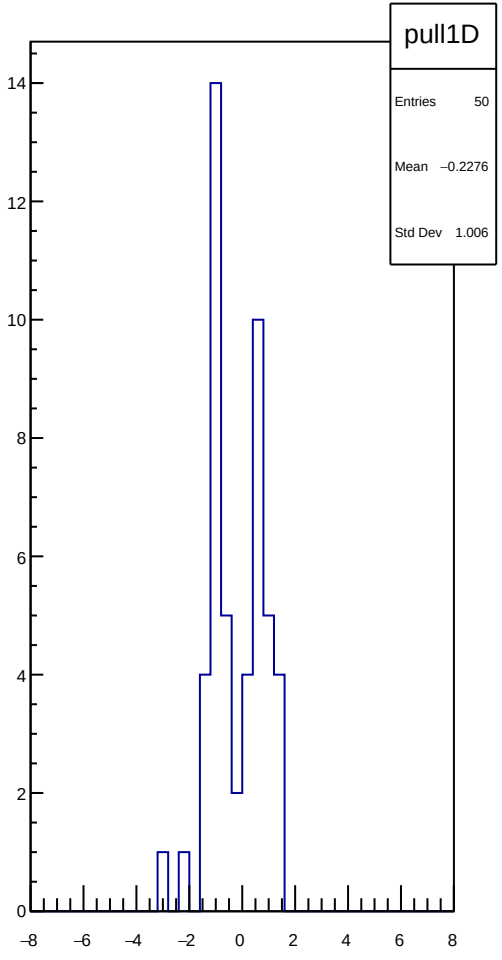

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.72 / 49
p0 5.029 ± 2.117
pull
Entries 50
Mean 20.7
Std Dev 20.28
pull1D
Entries 50
Mean 0.1097
Std Dev 0.3199

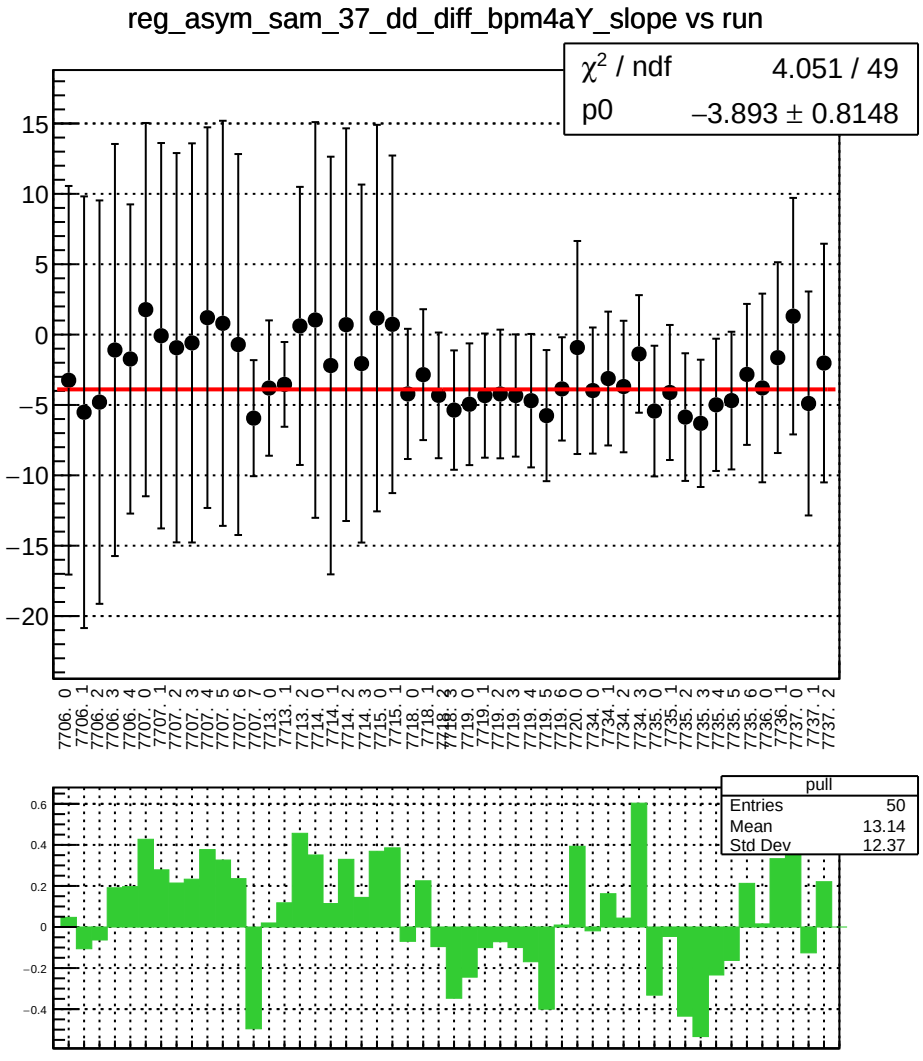

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.44 / 49
p0 −74.43 ± 1.641
pull
Entries 50
Mean 12.31
Std Dev 16.22
pull1D
Entries 50
Mean 0.462
Std Dev 1.138

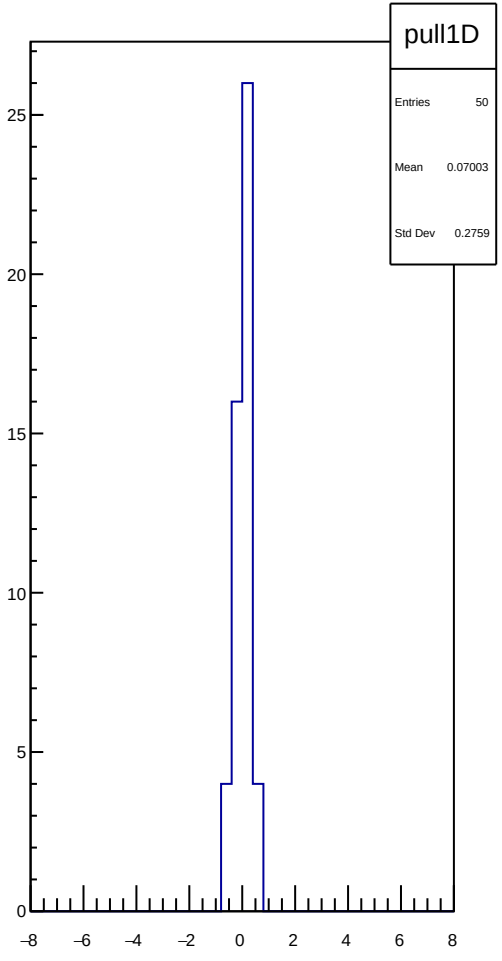

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.916 / 49
p0 1.912 ± 3.213
pull
Entries 50
Mean 25.61
Std Dev 21.57
pull1D
Entries 50
Mean −0.08901
Std Dev 0.3007

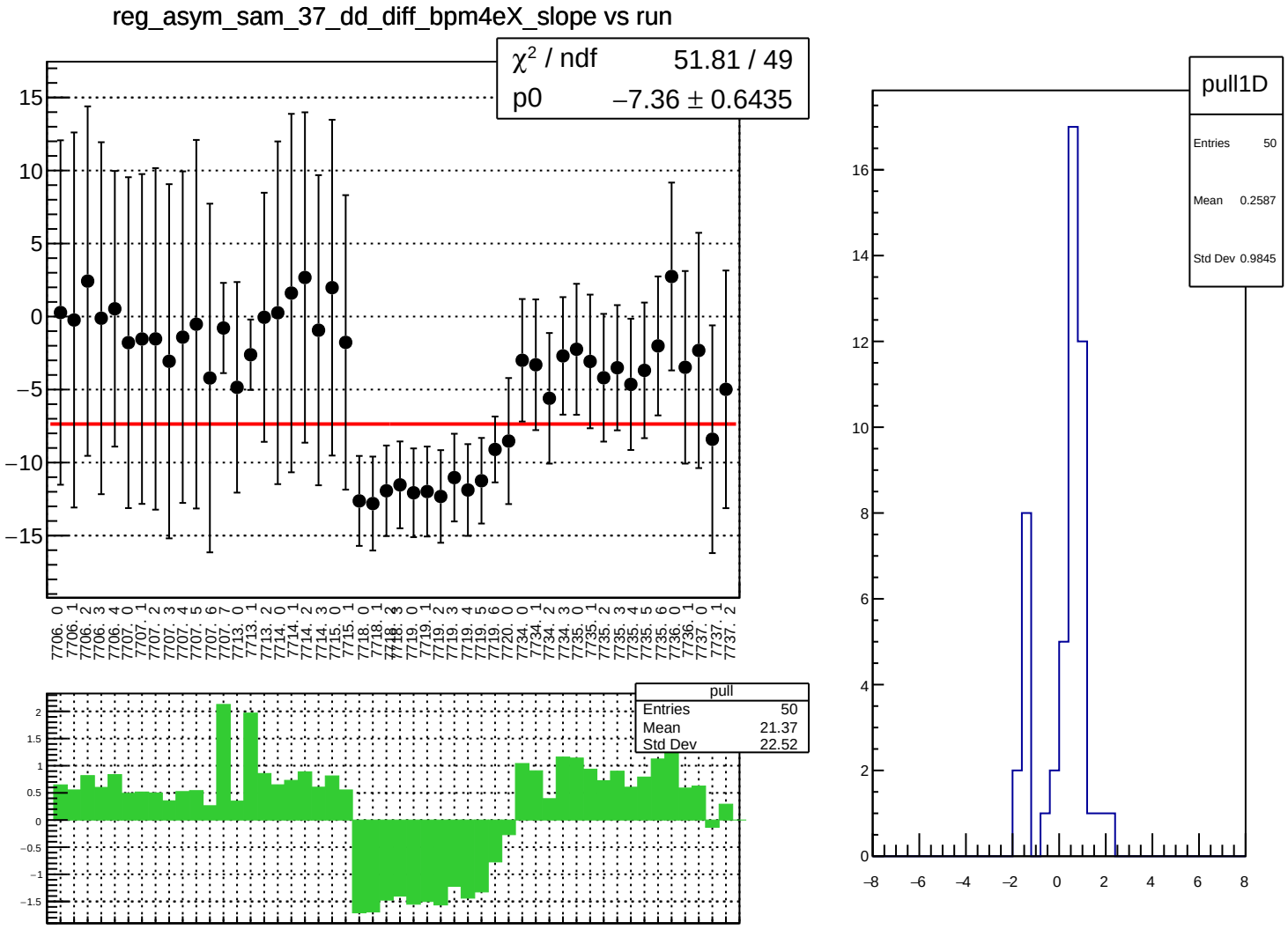

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 25.36 / 49
p0 −0.1198 ± 0.1333
pull
Entries 50
Mean −2.271
Std Dev 41.77
pull1D
Entries 50
Mean 0.06505
Std Dev 0.7092

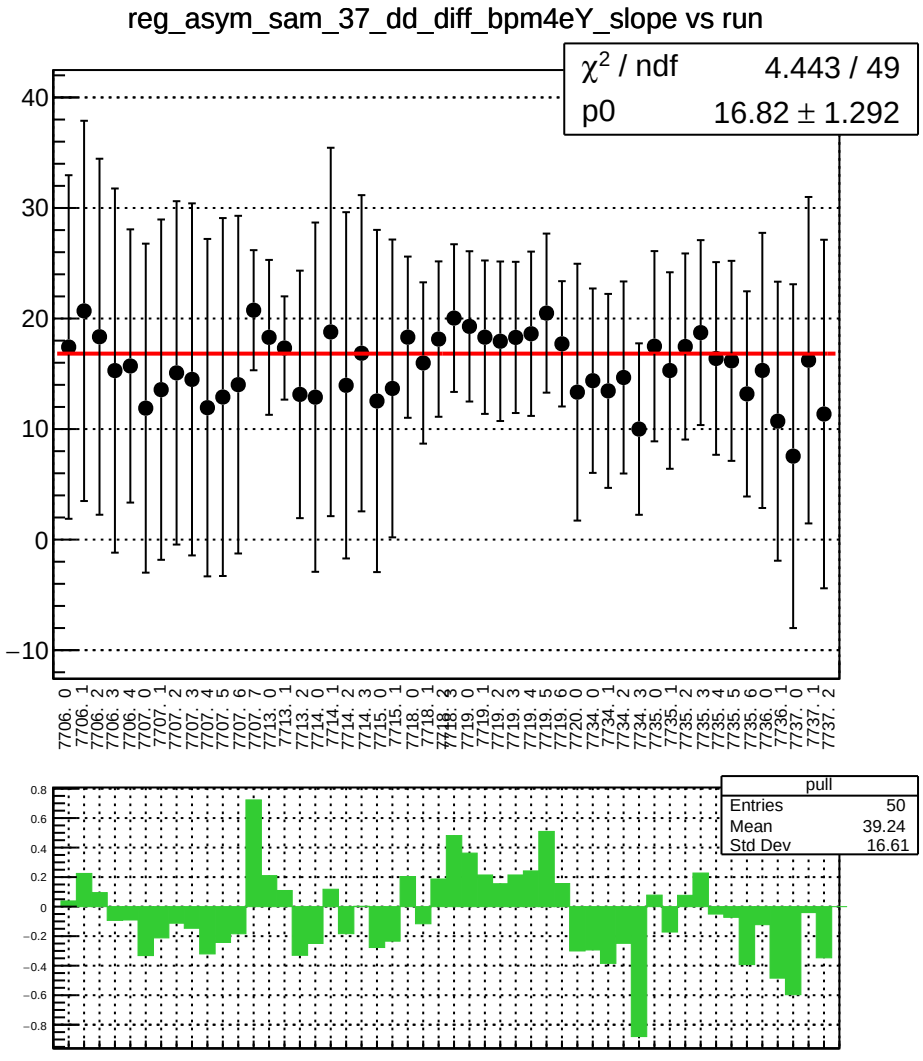

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 53.2 / 49
p0 −25.05 ± 0.7353
pull
Entries 50
Mean −20.01
Std Dev 41.95

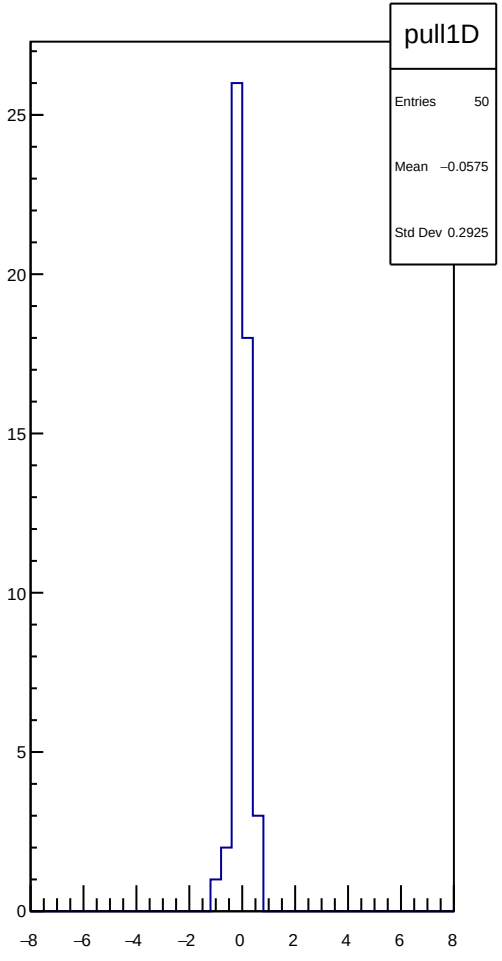

pull1D
Entries 50
Mean −0.2276
Std Dev 1.006

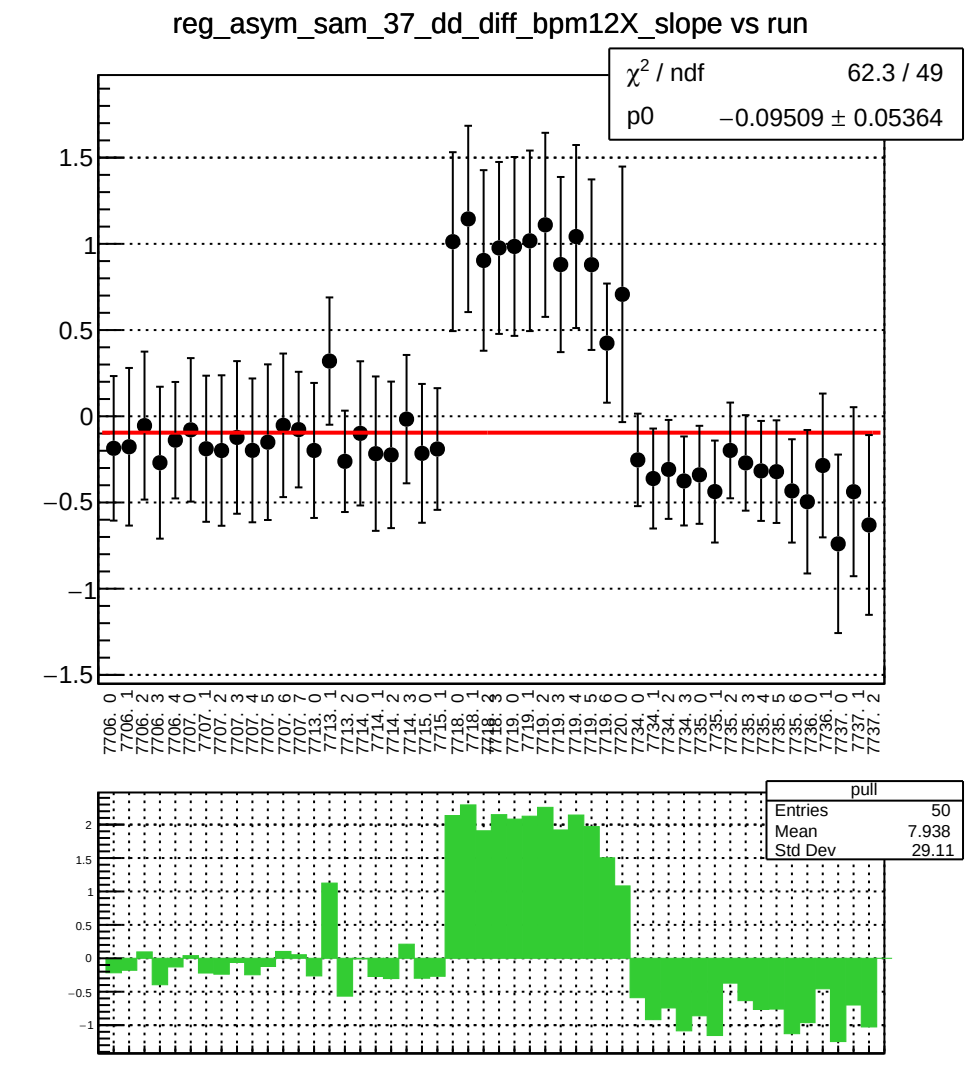

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.051 / 49
p0 −3.893 ± 0.8148
pull
Entries 50
Mean 13.14
Std Dev 12.37

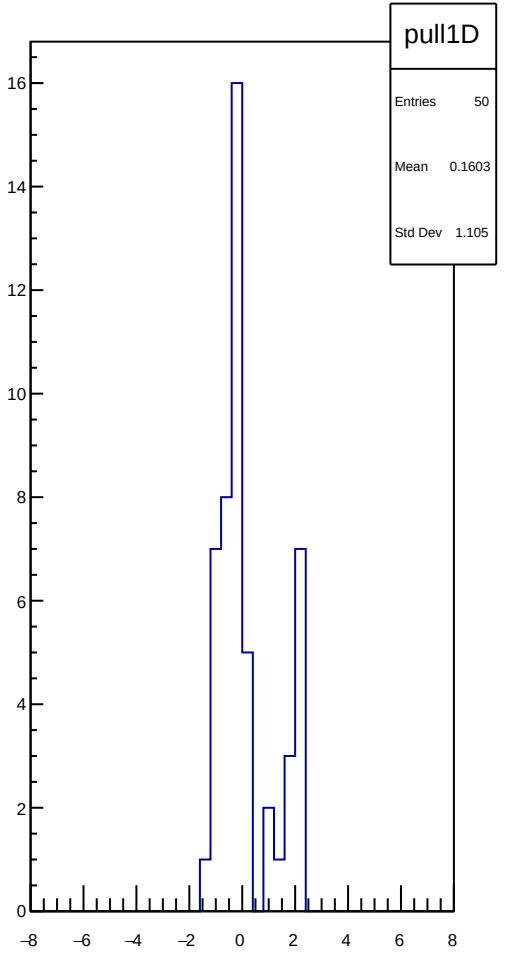

pull1D
Entries 50
Mean 0.07003
Std Dev 0.2759

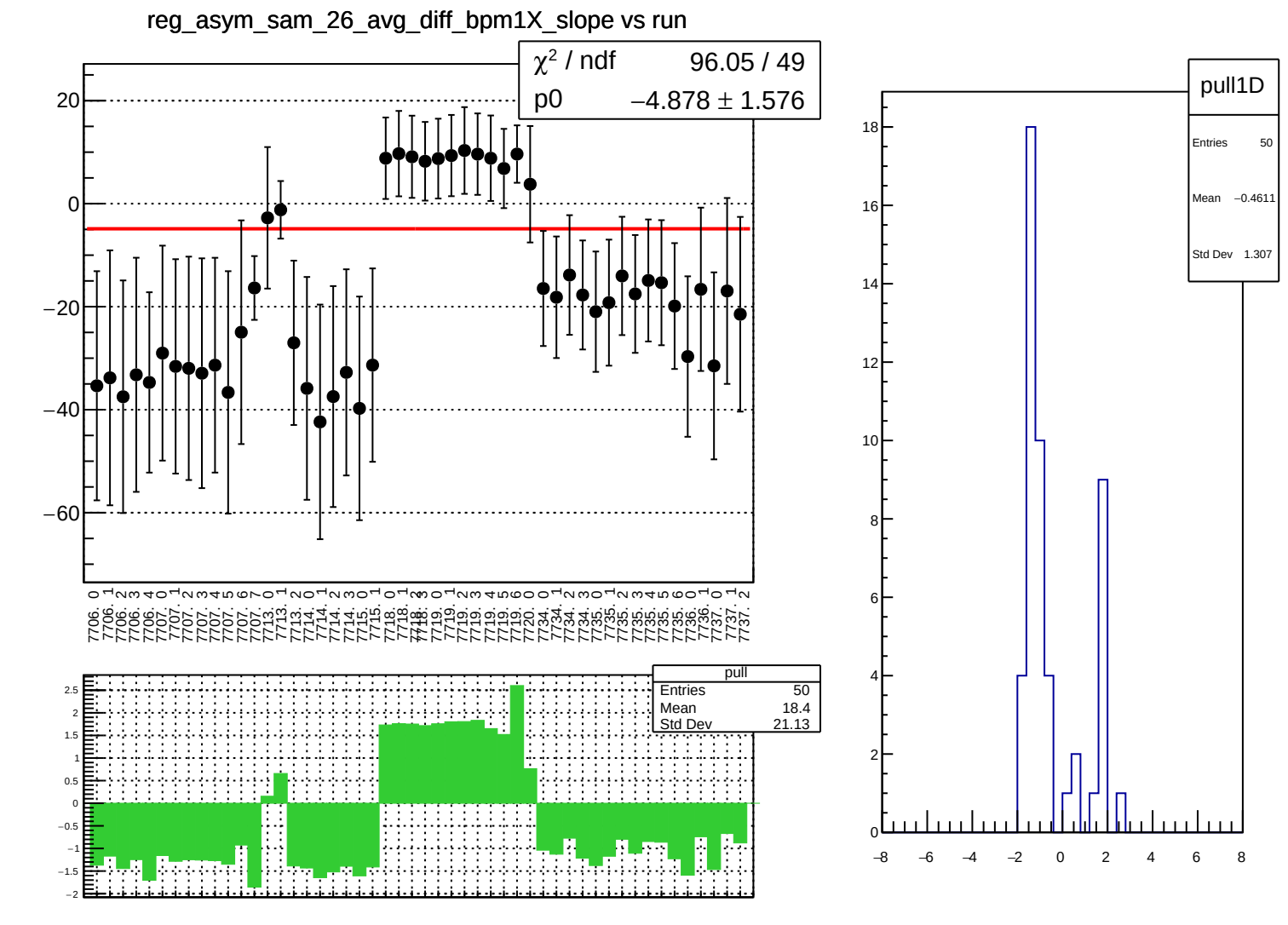

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.81 / 49
p0 −7.36 ± 0.6435
15
10
5
0
−5
−10
−15
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 21.37
Std Dev 22.52
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.2587
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

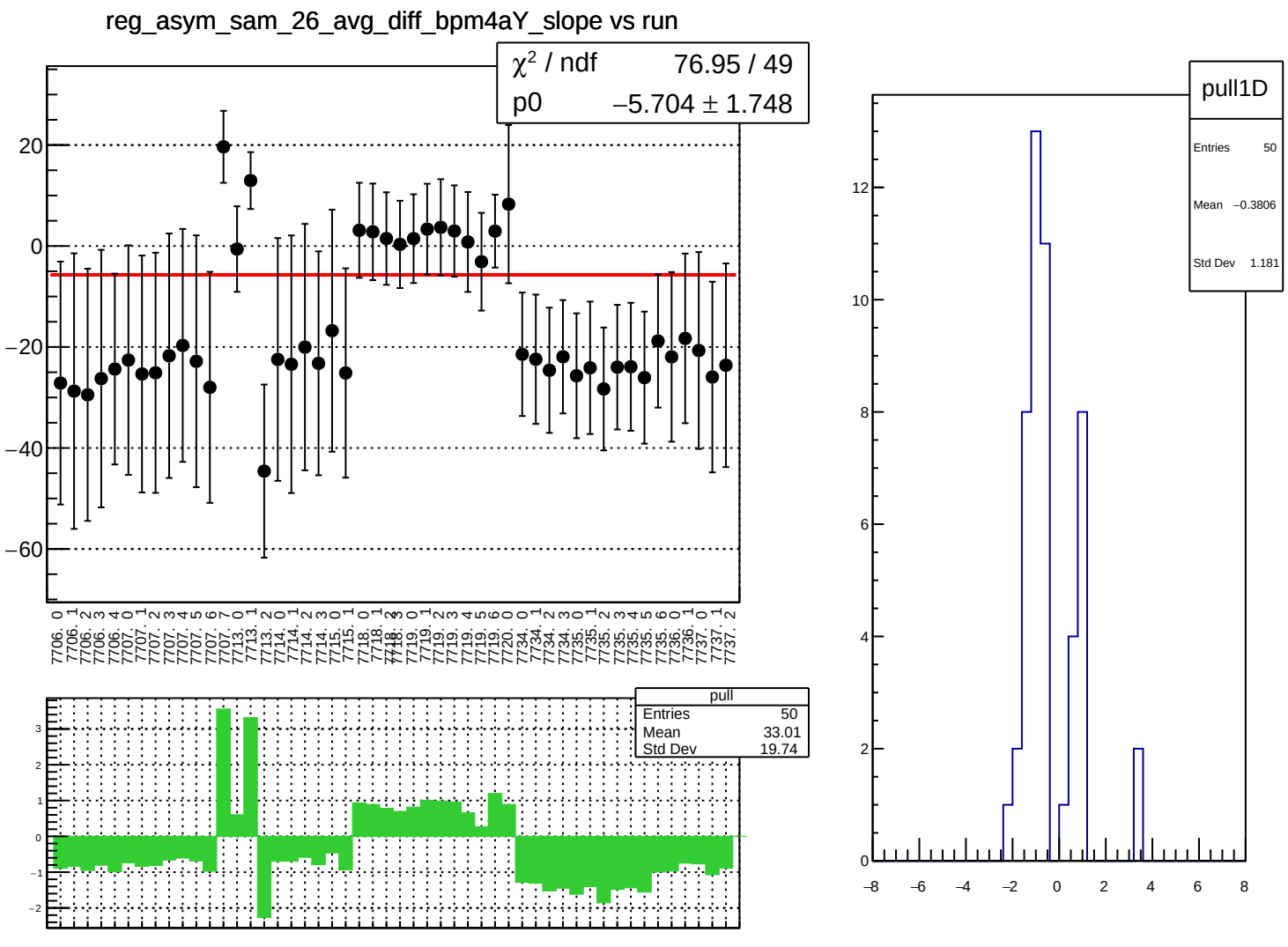

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.443 / 49
p0 16.82 ± 1.292
pull
Entries 50
Mean 39.24
Std Dev 16.61

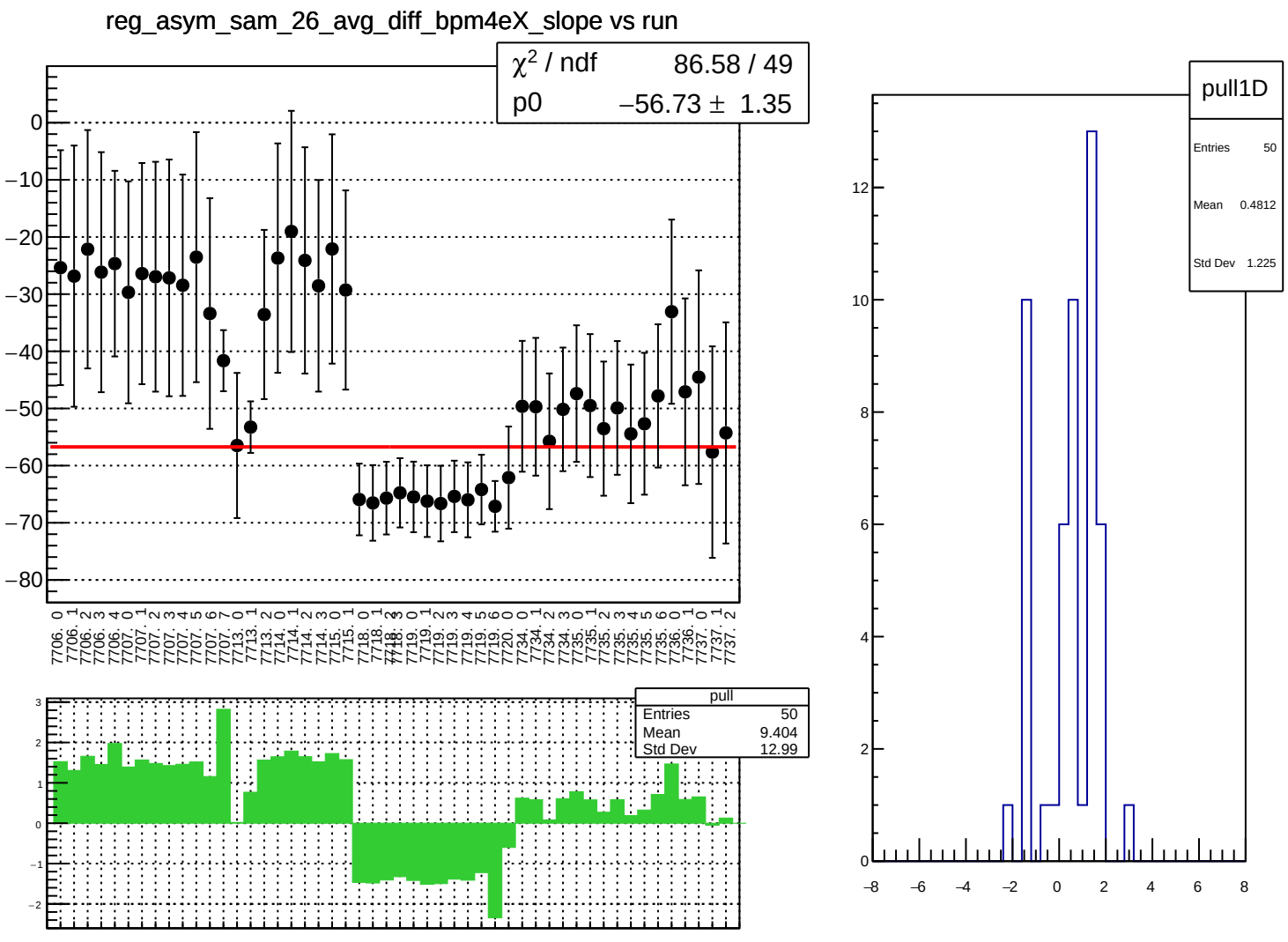

pull1D
Entries 50
Mean −0.0575
Std Dev 0.2925

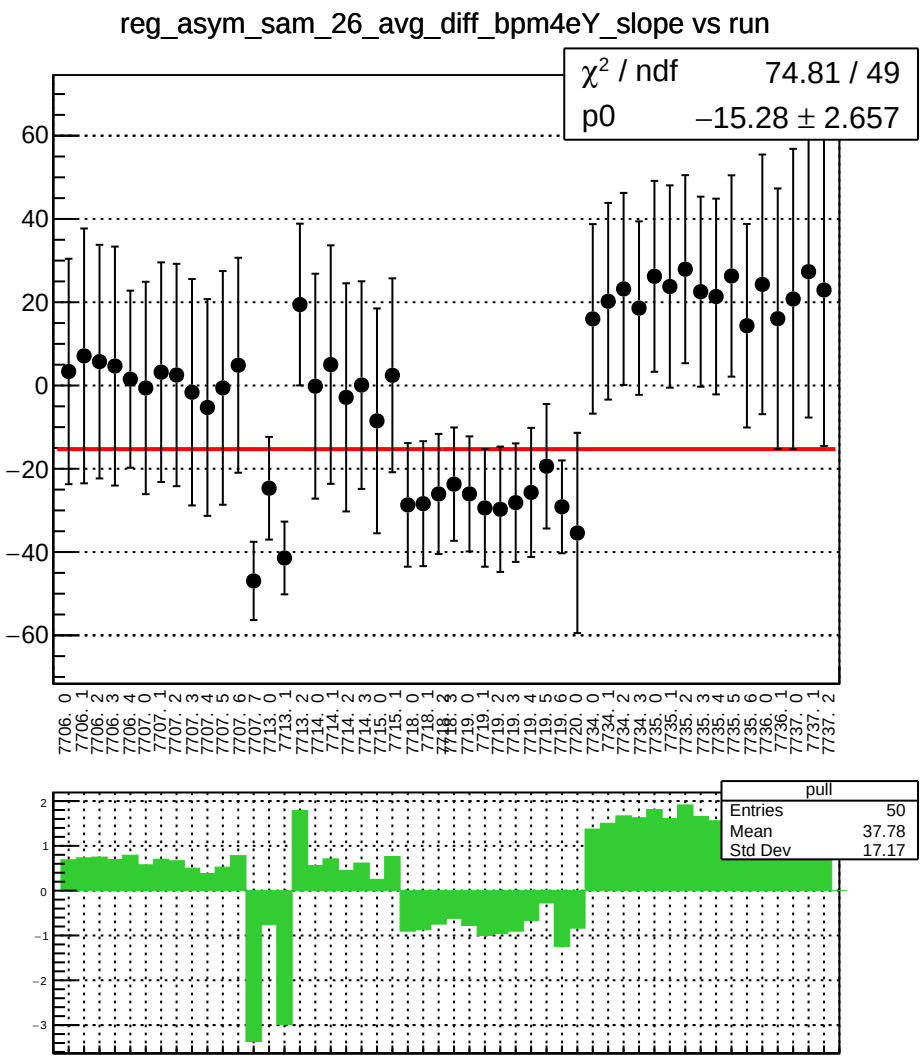

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 62.3 / 49
p0 −0.09509 ± 0.05364
pull
Entries 50
Mean 7.938
Std Dev 29.11

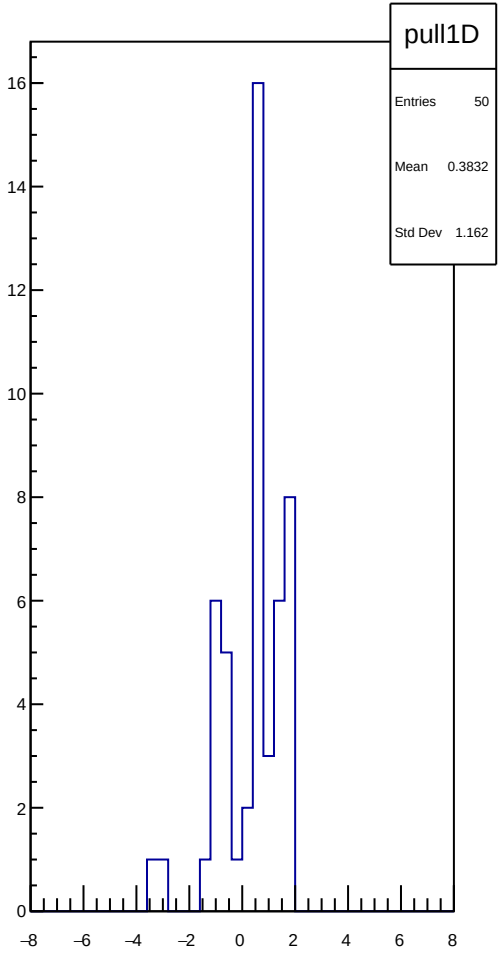

pull1D
Entries 50
Mean 0.1603
Std Dev 1.105

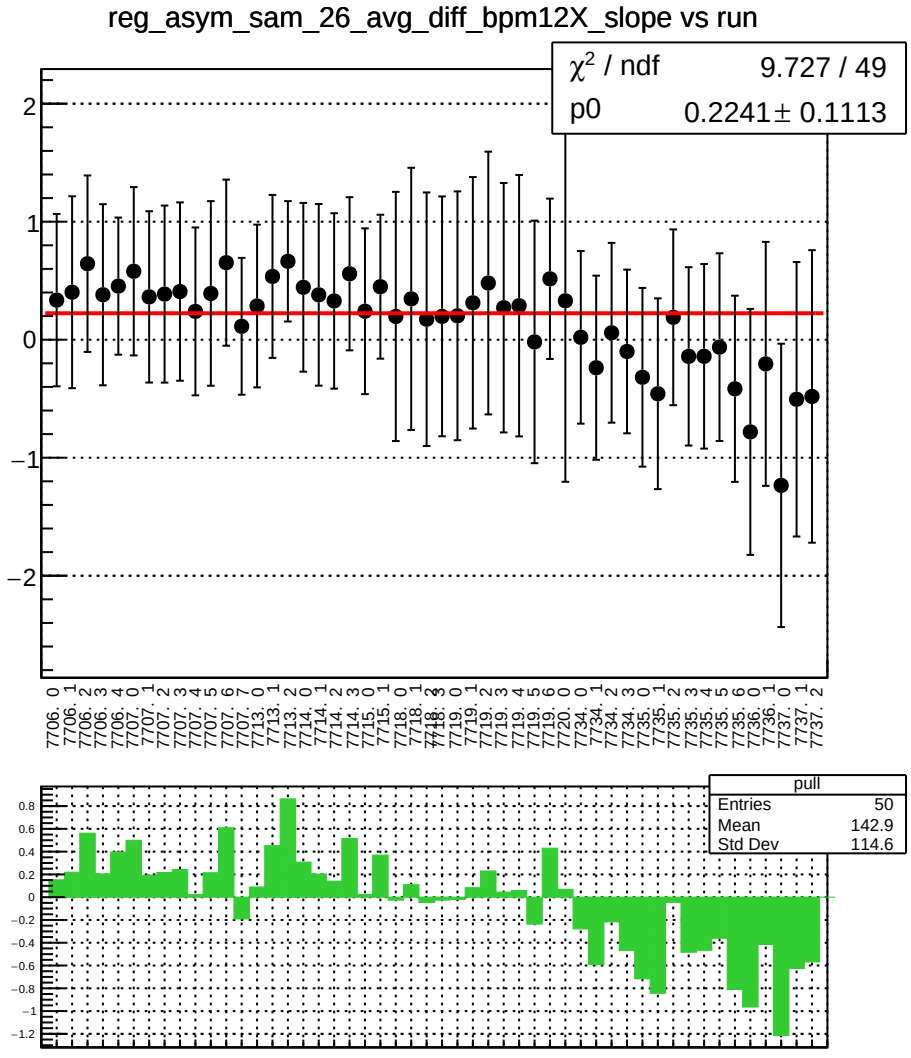

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 96.05 / 49
p0 −4.878 ± 1.576
pull
Entries 50
Mean 18.4
Std Dev 21.13
pull1D
Entries 50
Mean −0.4611
Std Dev 1.307

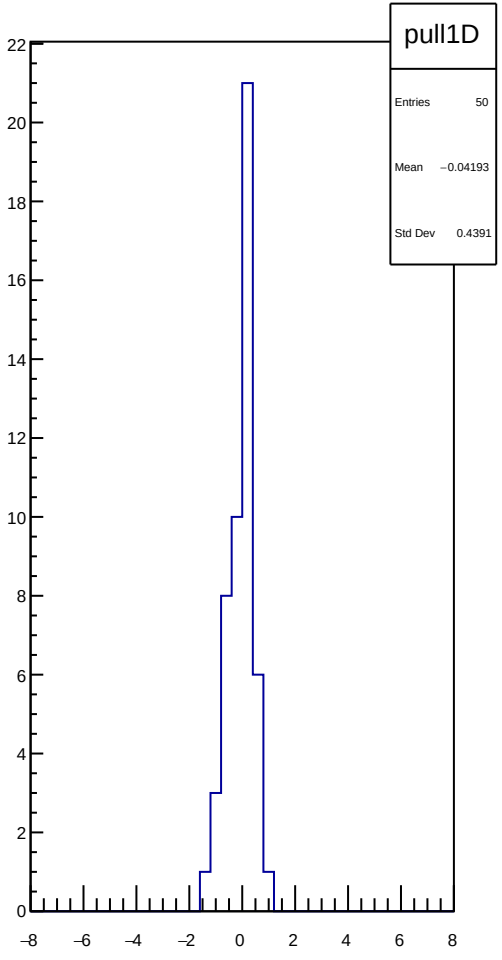

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.95 / 49
p0 −5.704 ± 1.748
pull
Entries 50
Mean 33.01
Std Dev 19.74
pull1D
Entries 50
Mean −0.3806
Std Dev 1.181

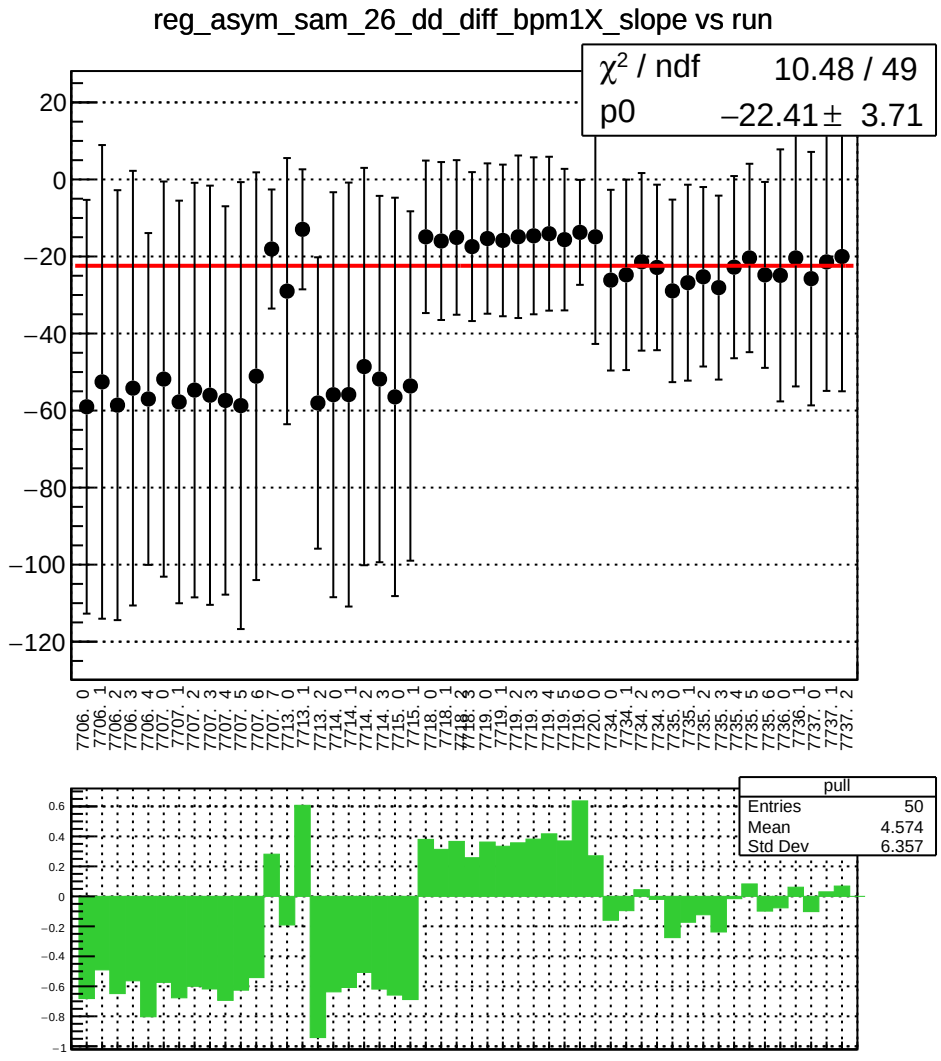

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.58 / 49
p0 −56.73 ± 1.35
pull
Entries 50
Mean 9.404
Std Dev 12.99
pull1D
Entries 50
Mean 0.4812
Std Dev 1.225

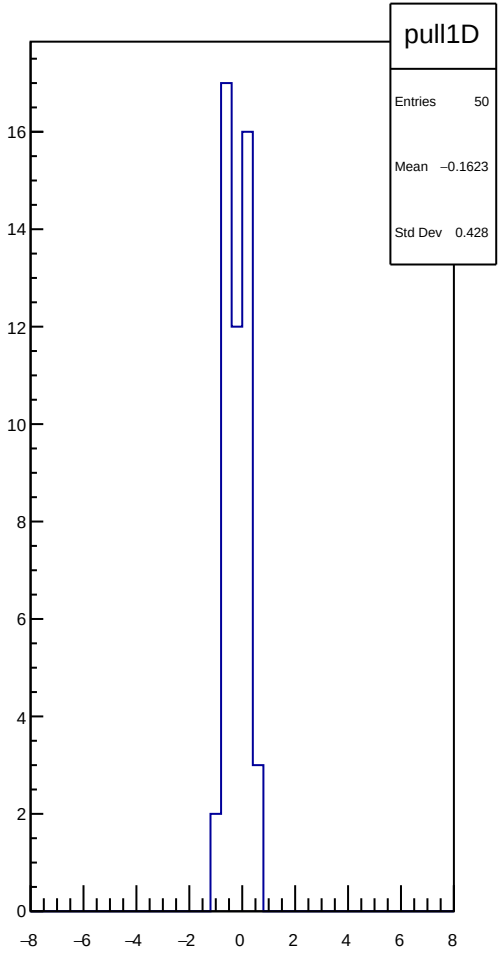

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.81 / 49
p0 −15.28 ± 2.657
pull
Entries 50
Mean 37.78
Std Dev 17.17

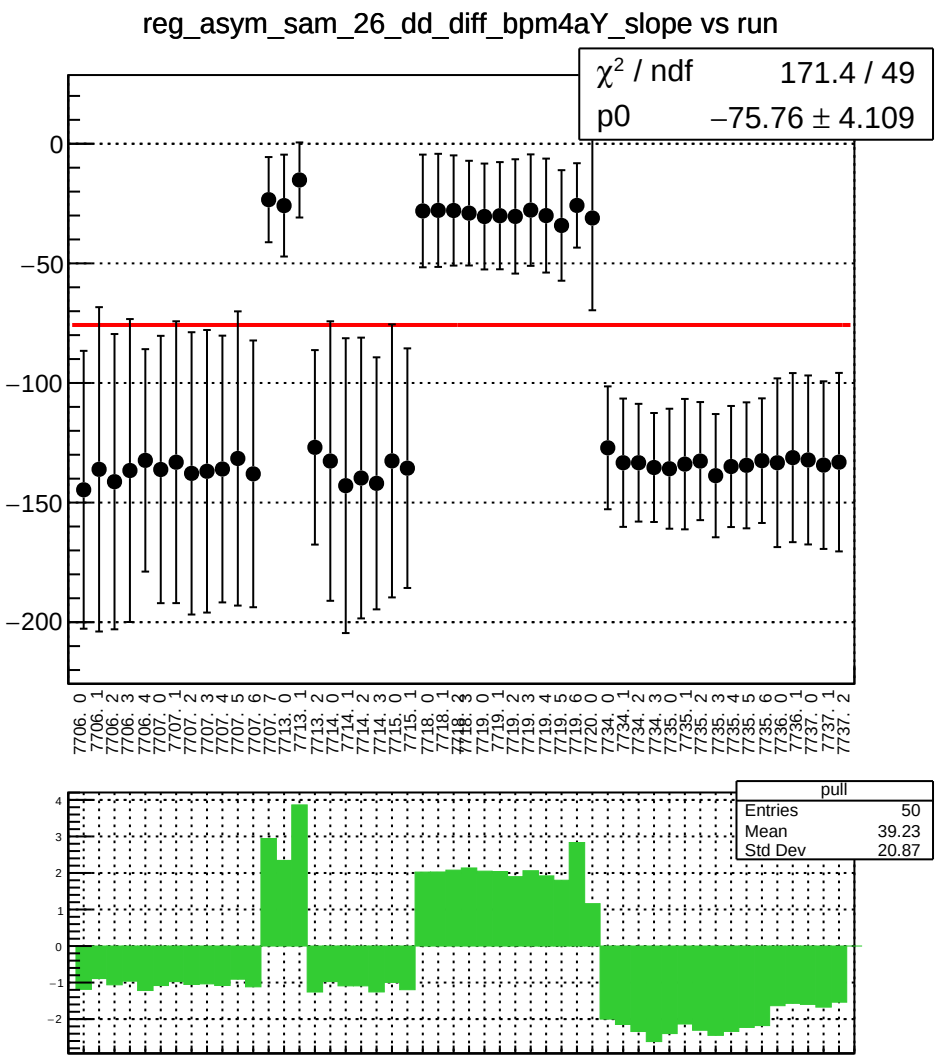

pull1D
Entries 50
Mean 0.3832
Std Dev 1.162

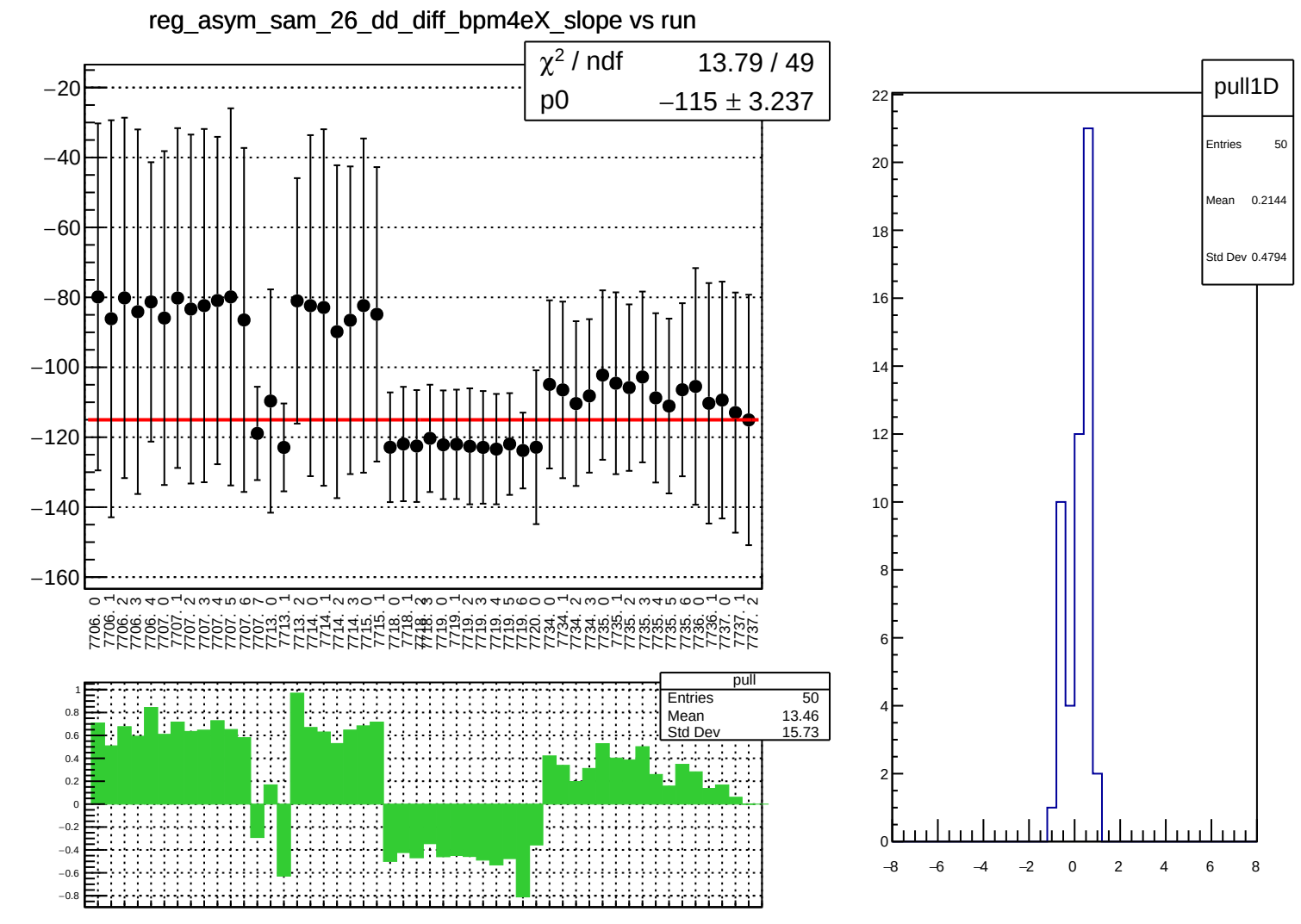

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 9.727 / 49
p0 0.2241± 0.1113
pull
Entries 50
Mean 142.9
Std Dev 114.6

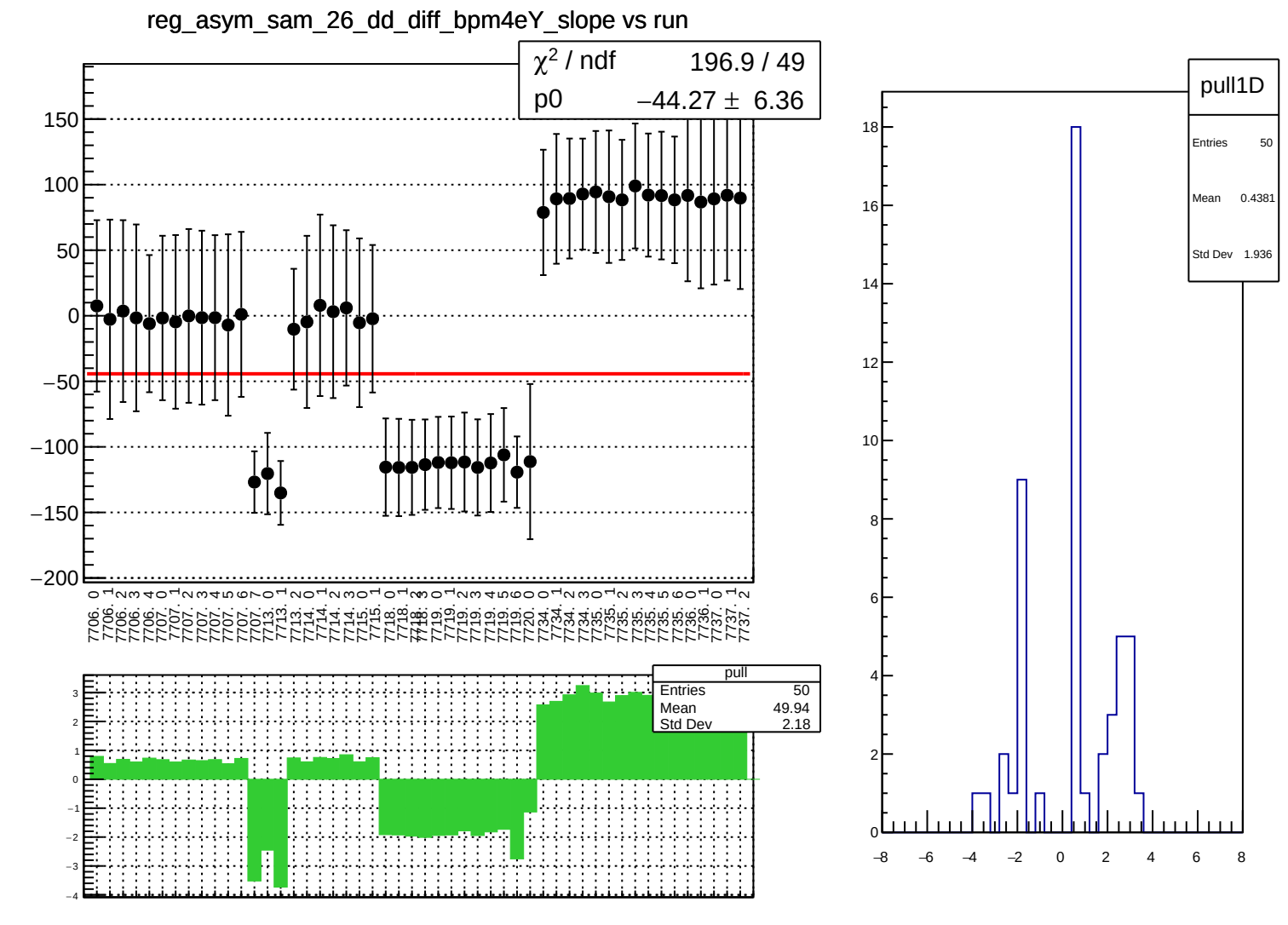

pull1D
Entries 50
Mean −0.04193
Std Dev 0.4391

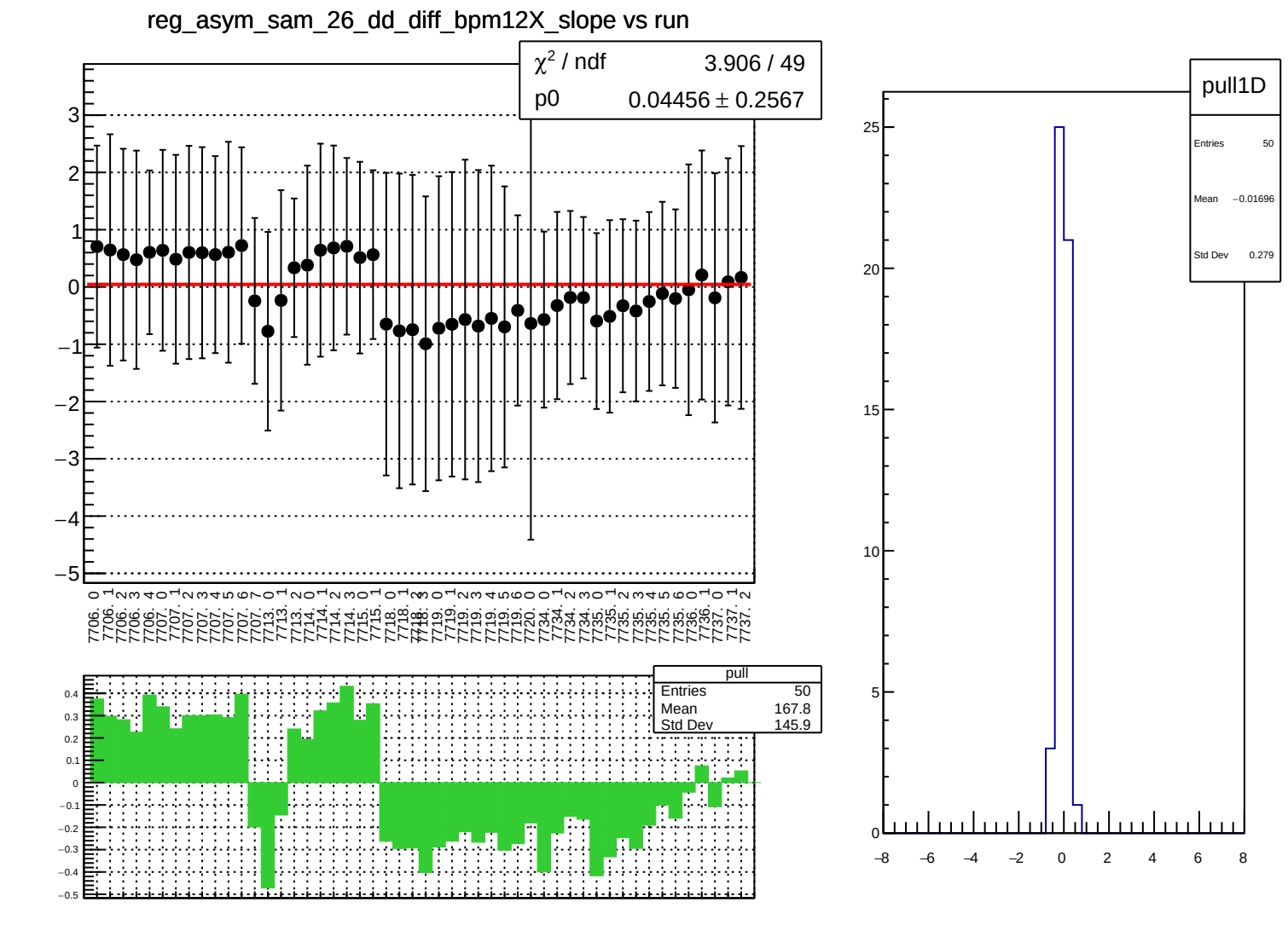

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 10.48 / 49
p0 −22.41 ± 3.71
pull
Entries 50
Mean 4.574
Std Dev 6.357

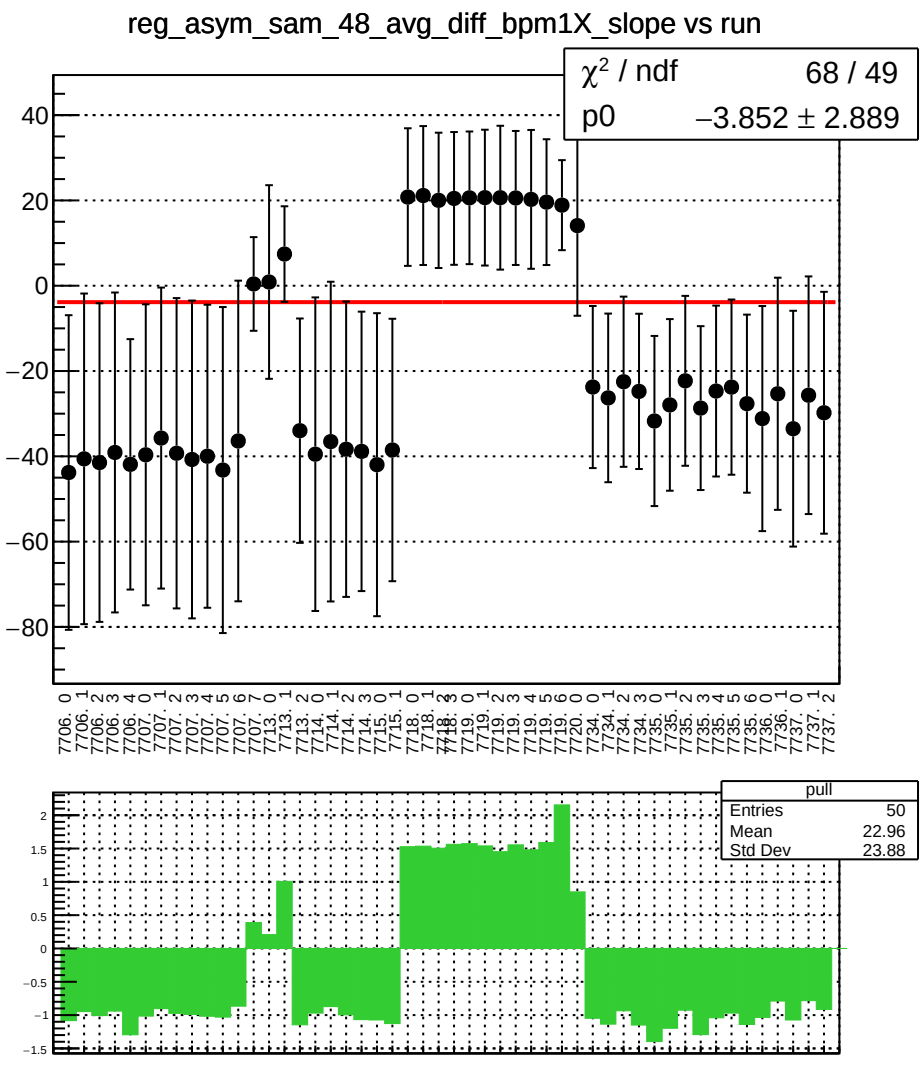

pull1D
Entries 50
Mean −0.1623
Std Dev 0.428

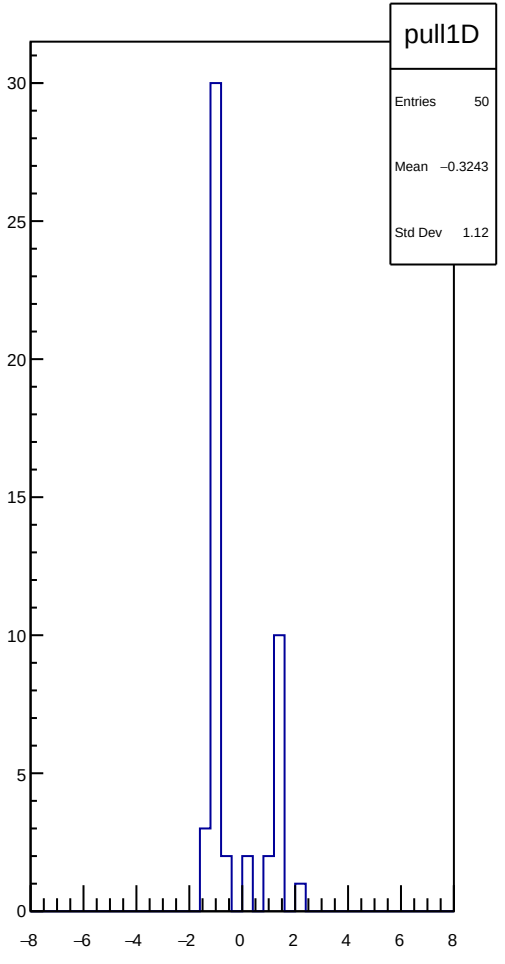

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 171.4 / 49
p0 −75.76 ± 4.109
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 39.23
Std Dev 20.87
4
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.4075
Std Dev 1.806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

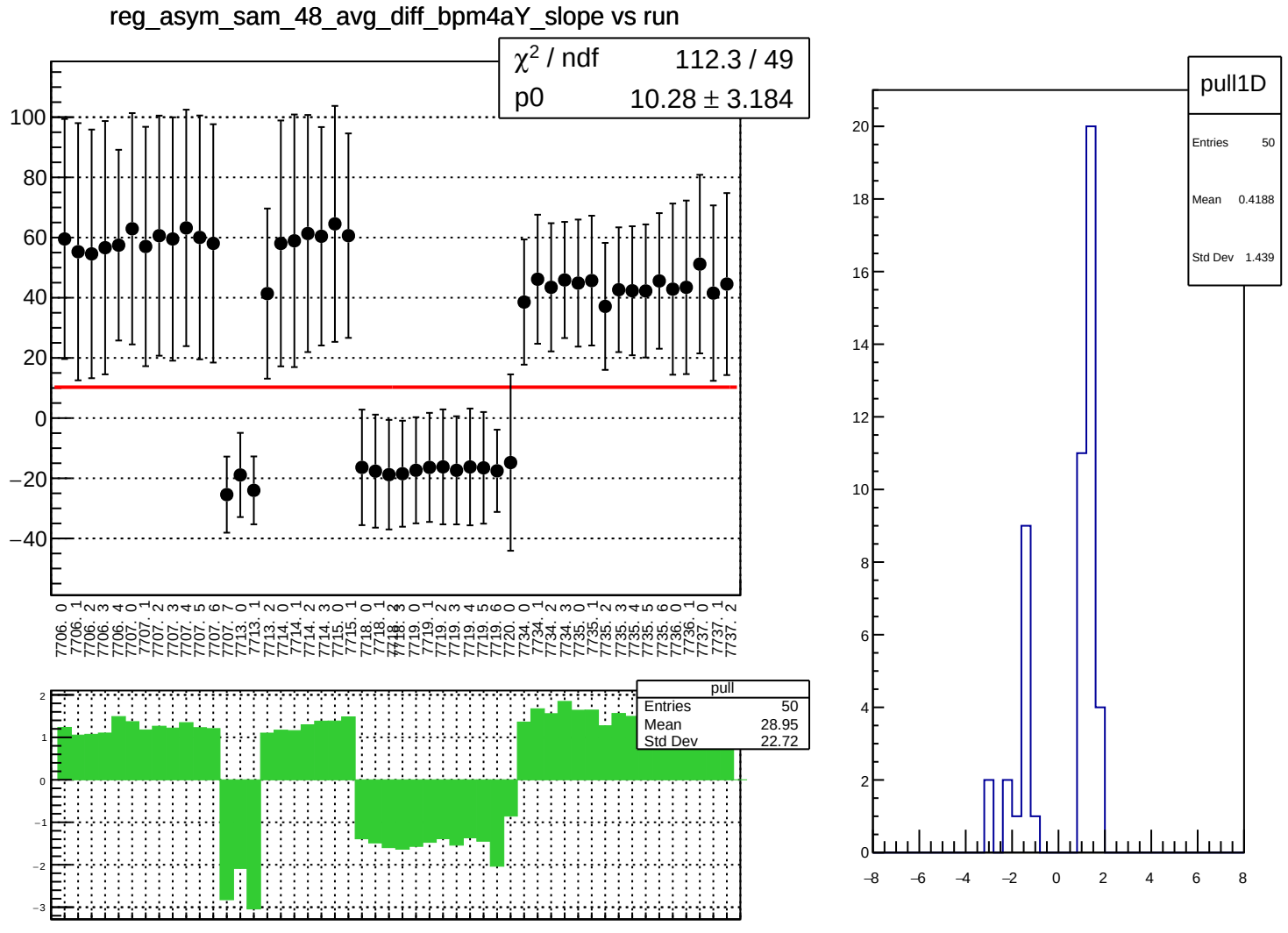

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.79 / 49
p0 −115 ± 3.237
pull
Entries 50
Mean 13.46
Std Dev 15.73
pull1D
Entries 50
Mean 0.2144
Std Dev 0.4794

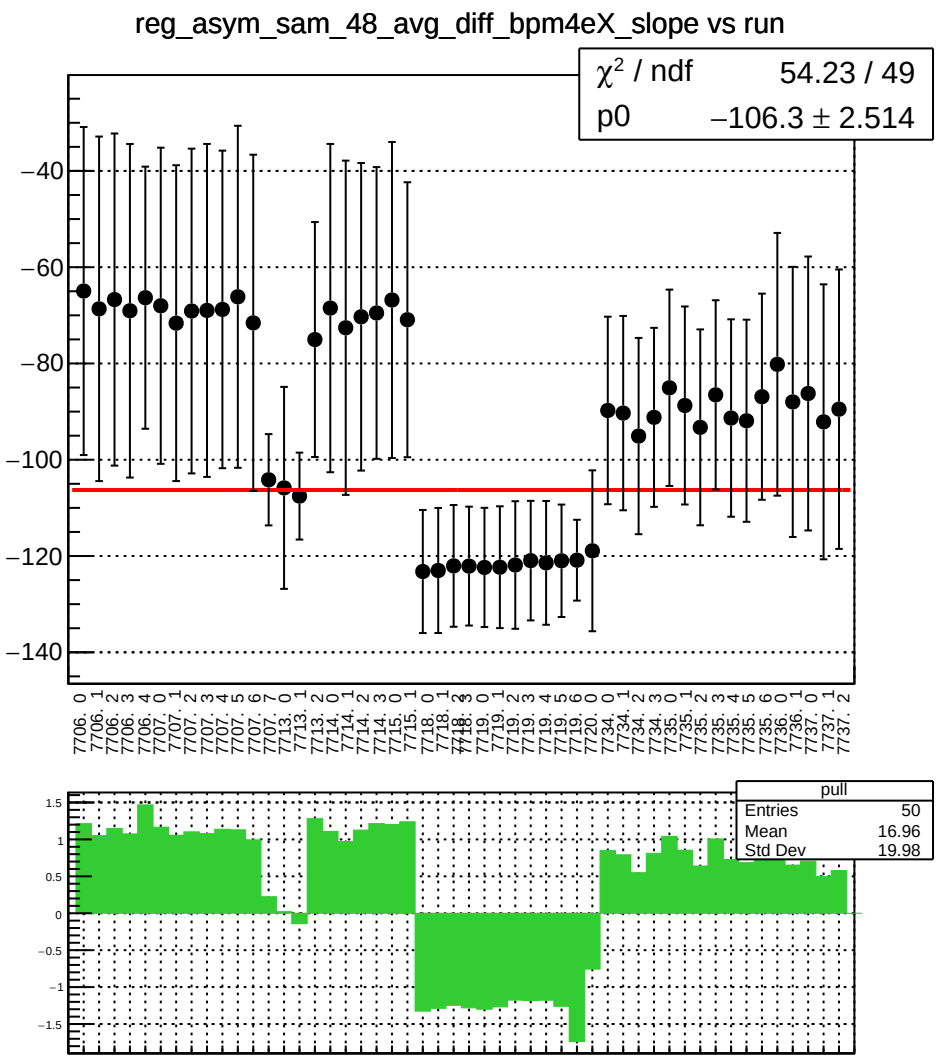

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 196.9 / 49
p0 −44.27 ± 6.36
pull
Entries 50
Mean 49.94
Std Dev 2.18
pull1D
Entries 50
Mean 0.4381
Std Dev 1.936

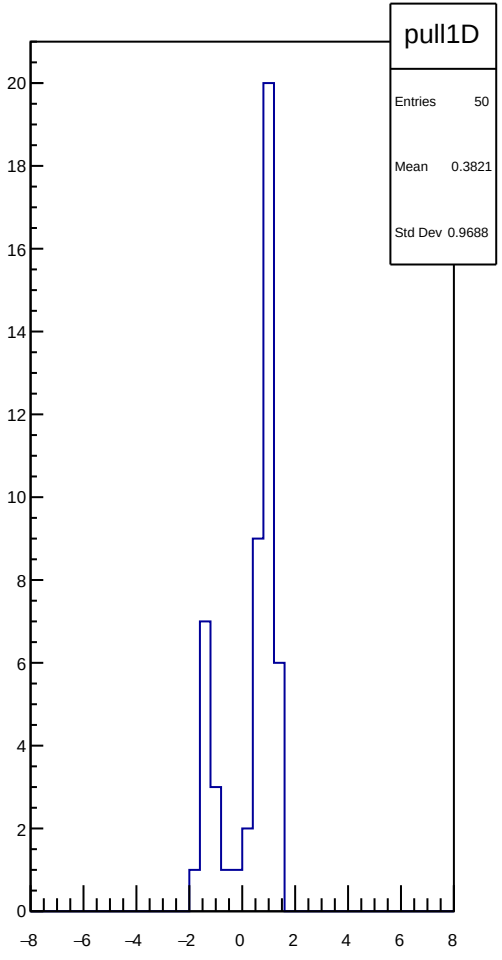

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 3.906 / 49
p0 0.04456 ± 0.2567
pull
Entries 50
Mean 167.8
Std Dev 145.9
pull1D
Entries 50
Mean −0.01696
Std Dev 0.279

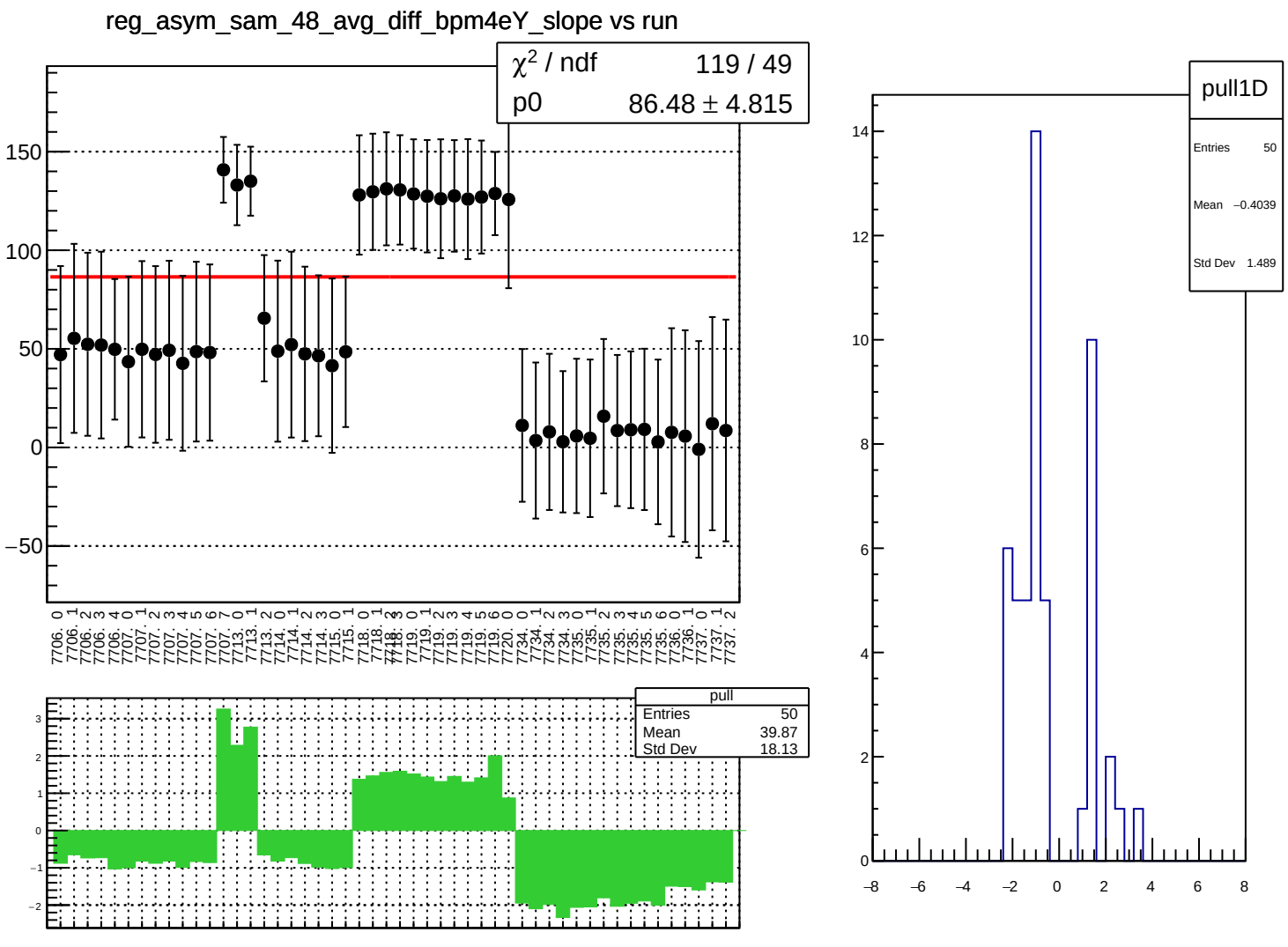

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 68 / 49
p0 −3.852 ± 2.889
pull
Entries 50
Mean 22.96
Std Dev 23.88

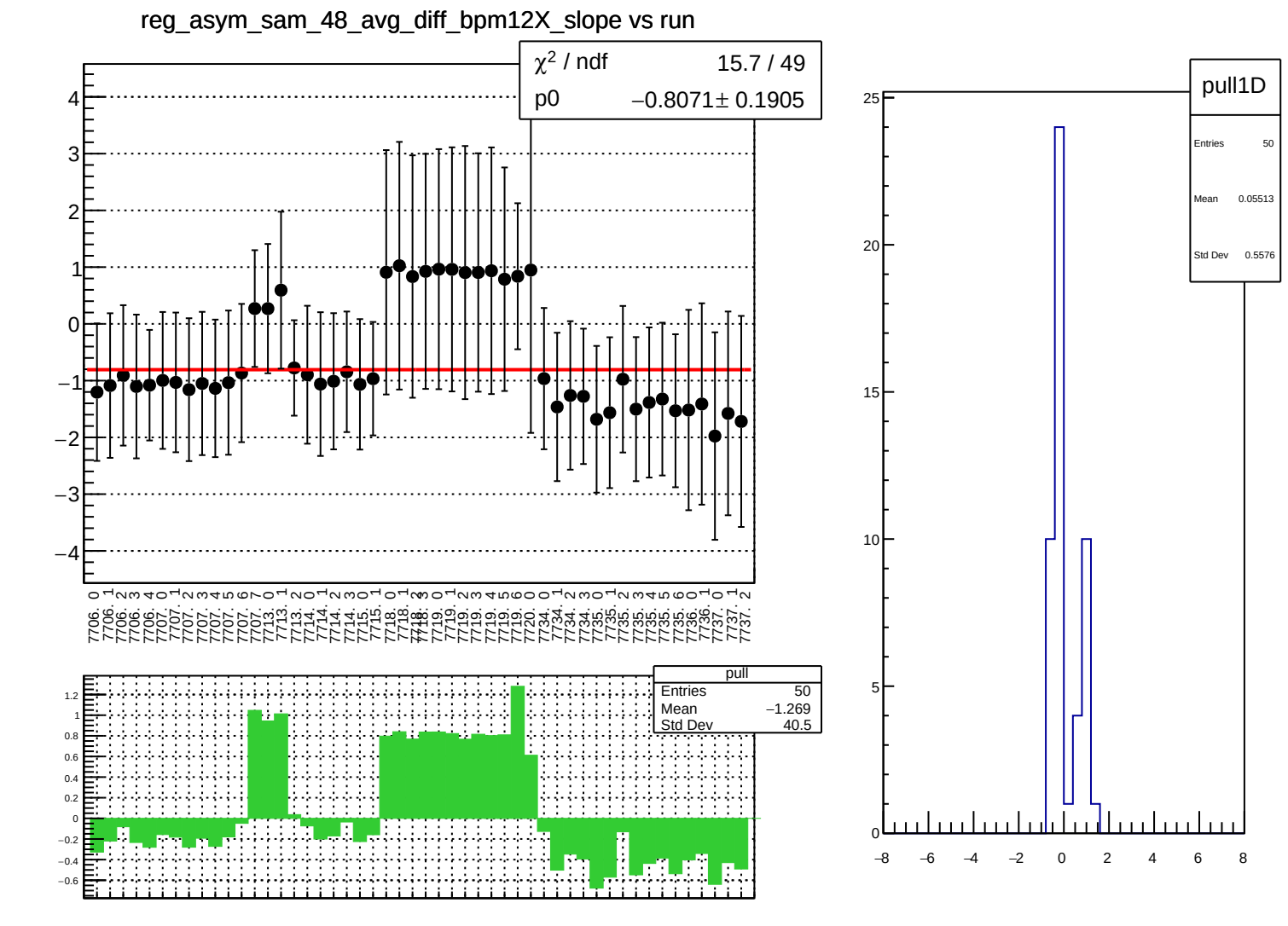

pull1D
Entries 50
Mean −0.3243
Std Dev 1.12

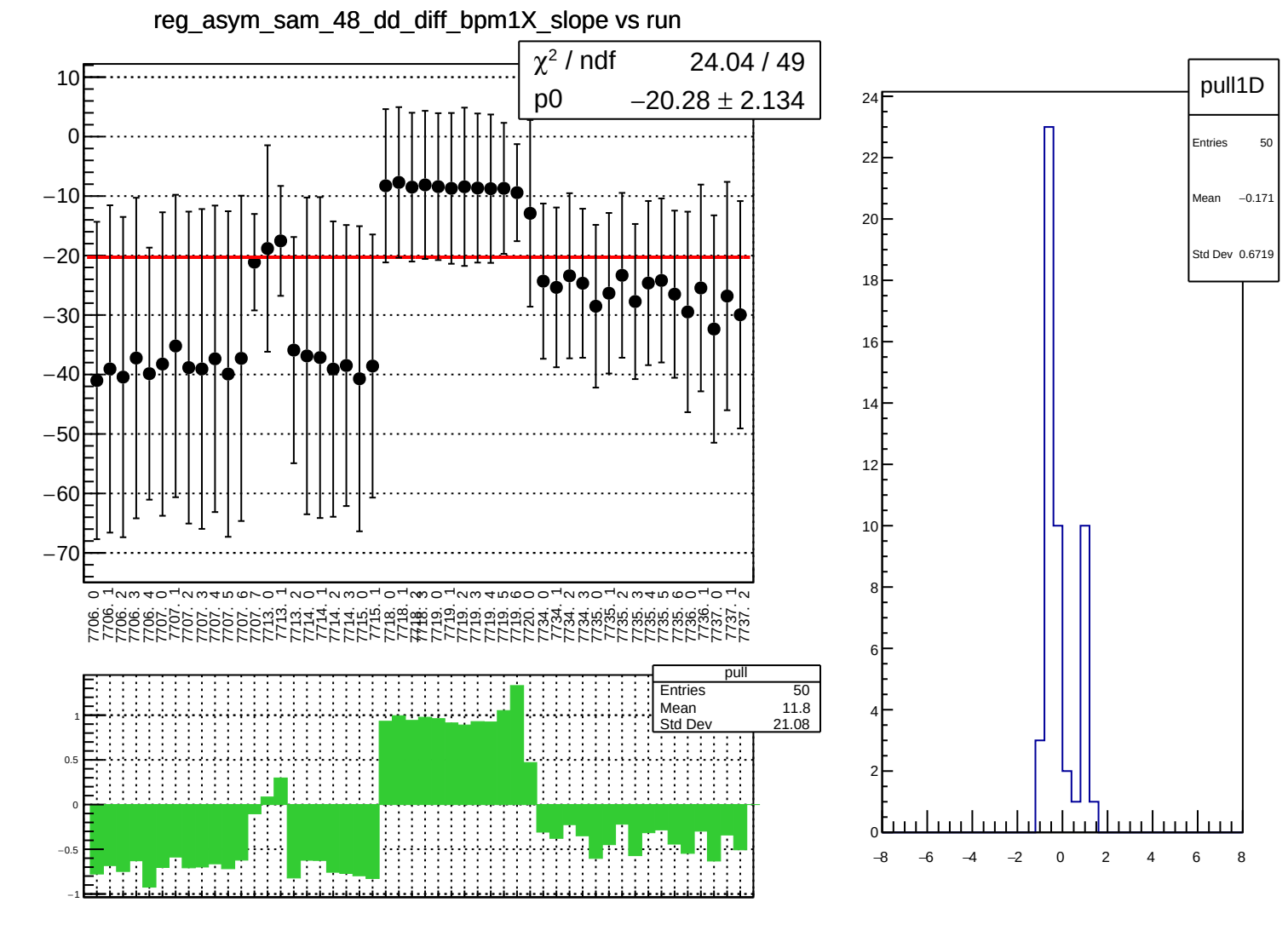

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 112.3 / 49
p0 10.28 ± 3.184
pull
Entries 50
Mean 28.95
Std Dev 22.72
pull1D
Entries 50
Mean 0.4188
Std Dev 1.439

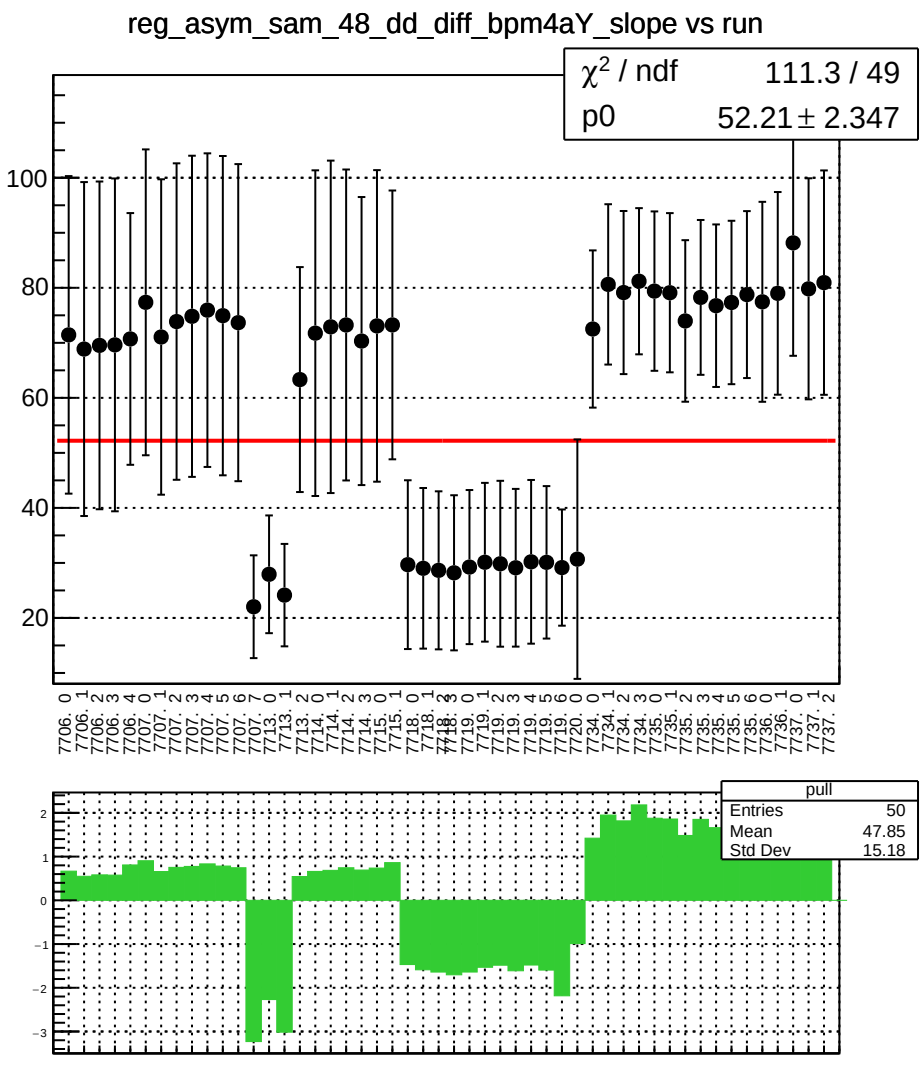

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.23 / 49
p0 −106.3 ± 2.514
pull
Entries 50
Mean 16.96
Std Dev 19.98

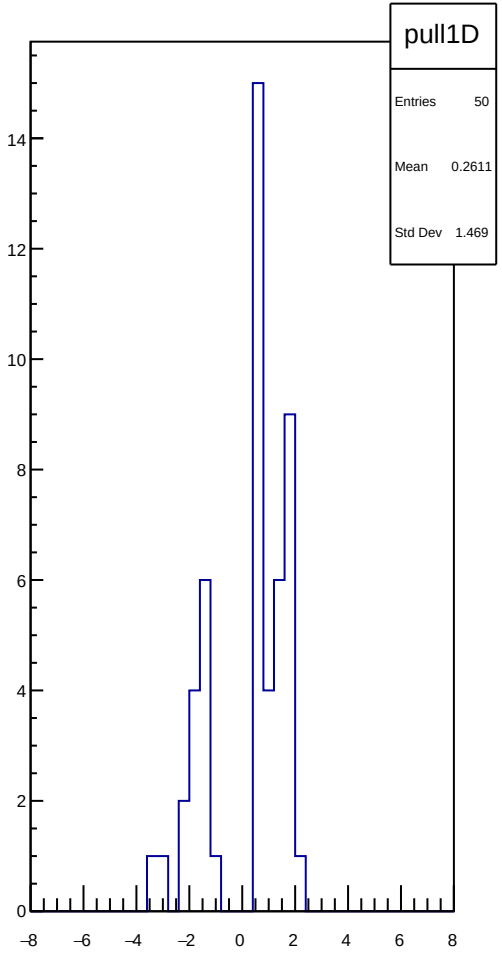

pull1D
Entries 50
Mean 0.3821
Std Dev 0.9688

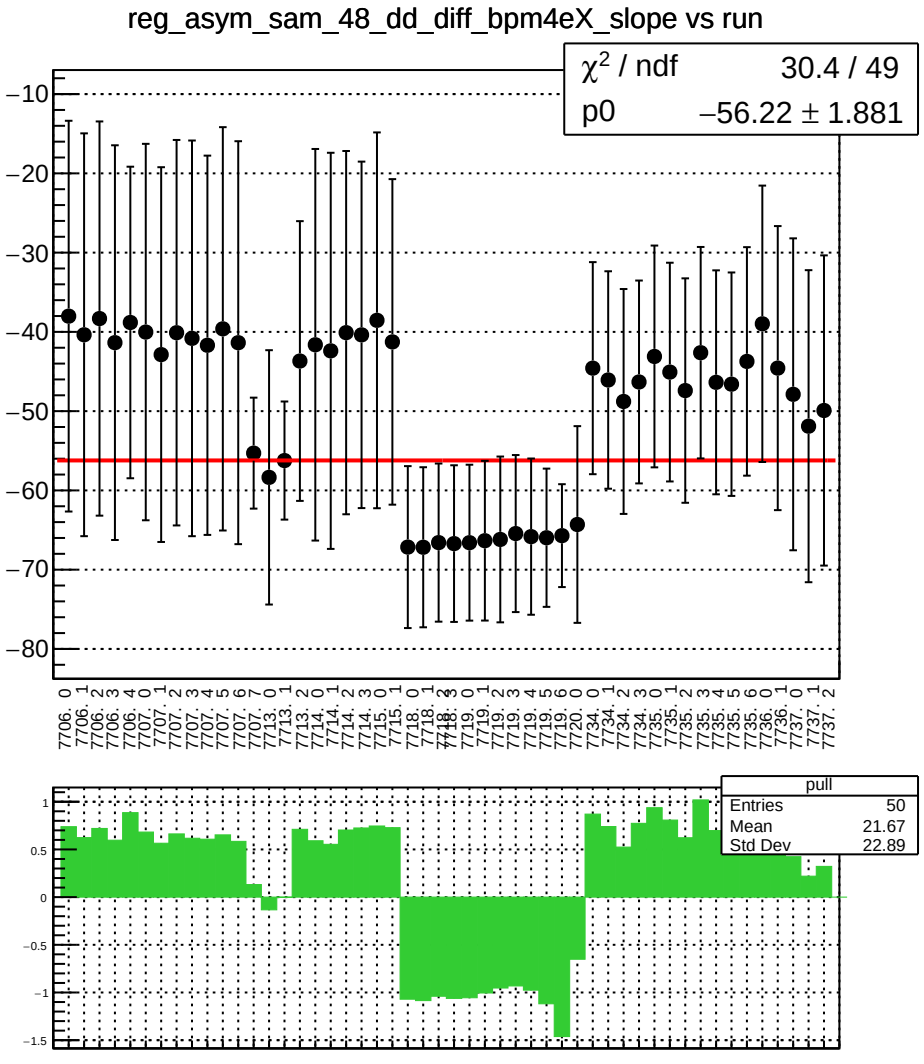

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 119 / 49
p0 86.48 ± 4.815
150
100
50
0
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 39.87
Std Dev 18.13
3
2
1
0
−1
−2
pull1D
Entries 50
Mean −0.4039
Std Dev 1.489
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

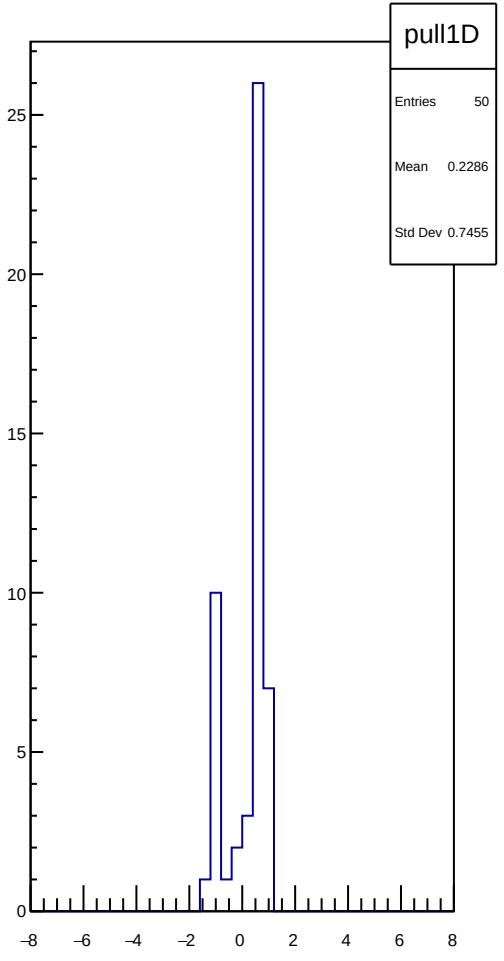

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 15.7 / 49
p0 −0.8071± 0.1905
pull
Entries 50
Mean −1.269
Std Dev 40.5
pull1D
Entries 50
Mean 0.05513
Std Dev 0.5576

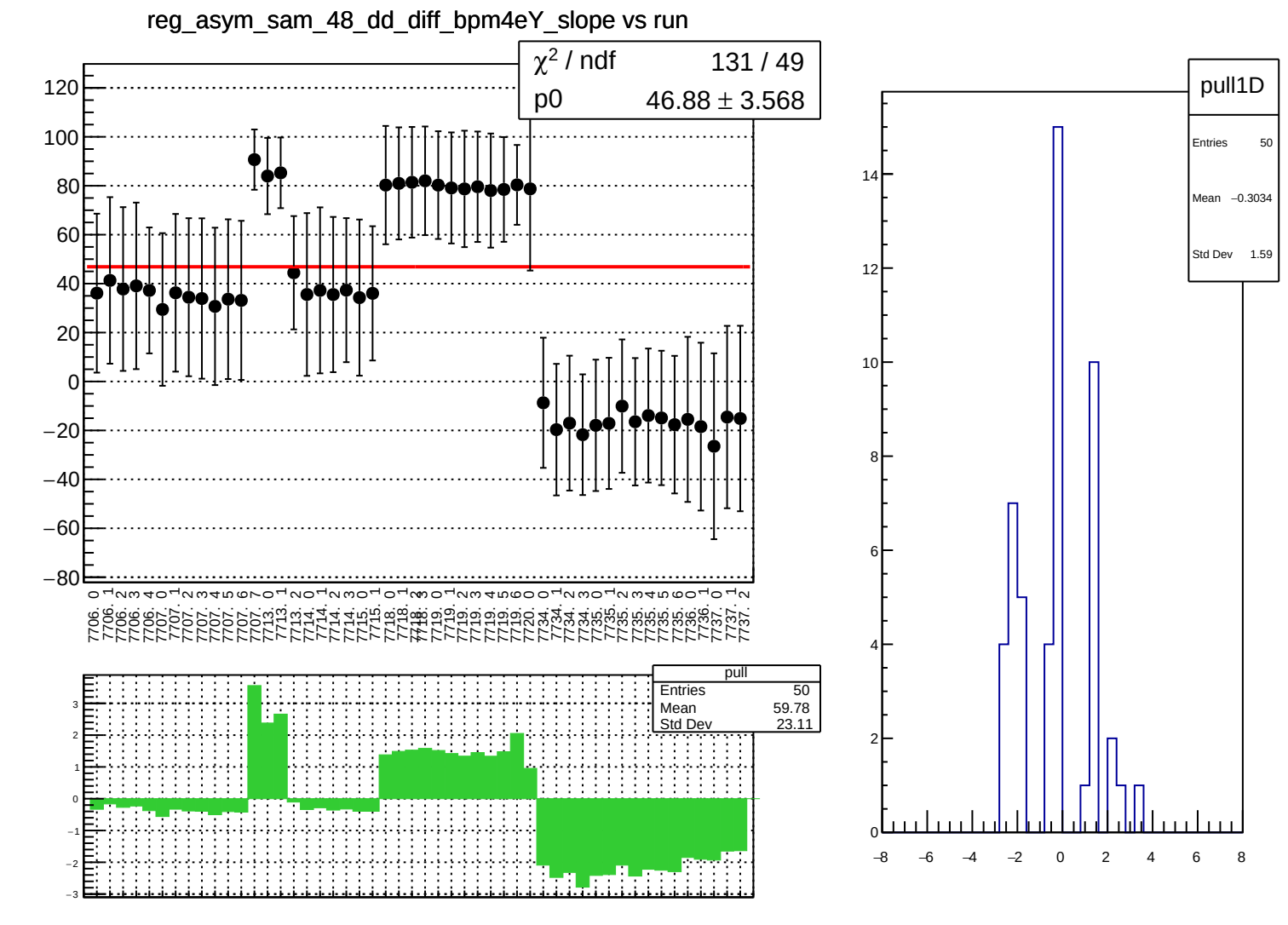

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 24.04 / 49
p0 −20.28 ± 2.134
pull
Entries 50
Mean 11.8
Std Dev 21.08
pull1D
Entries 50
Mean −0.171
Std Dev 0.6719

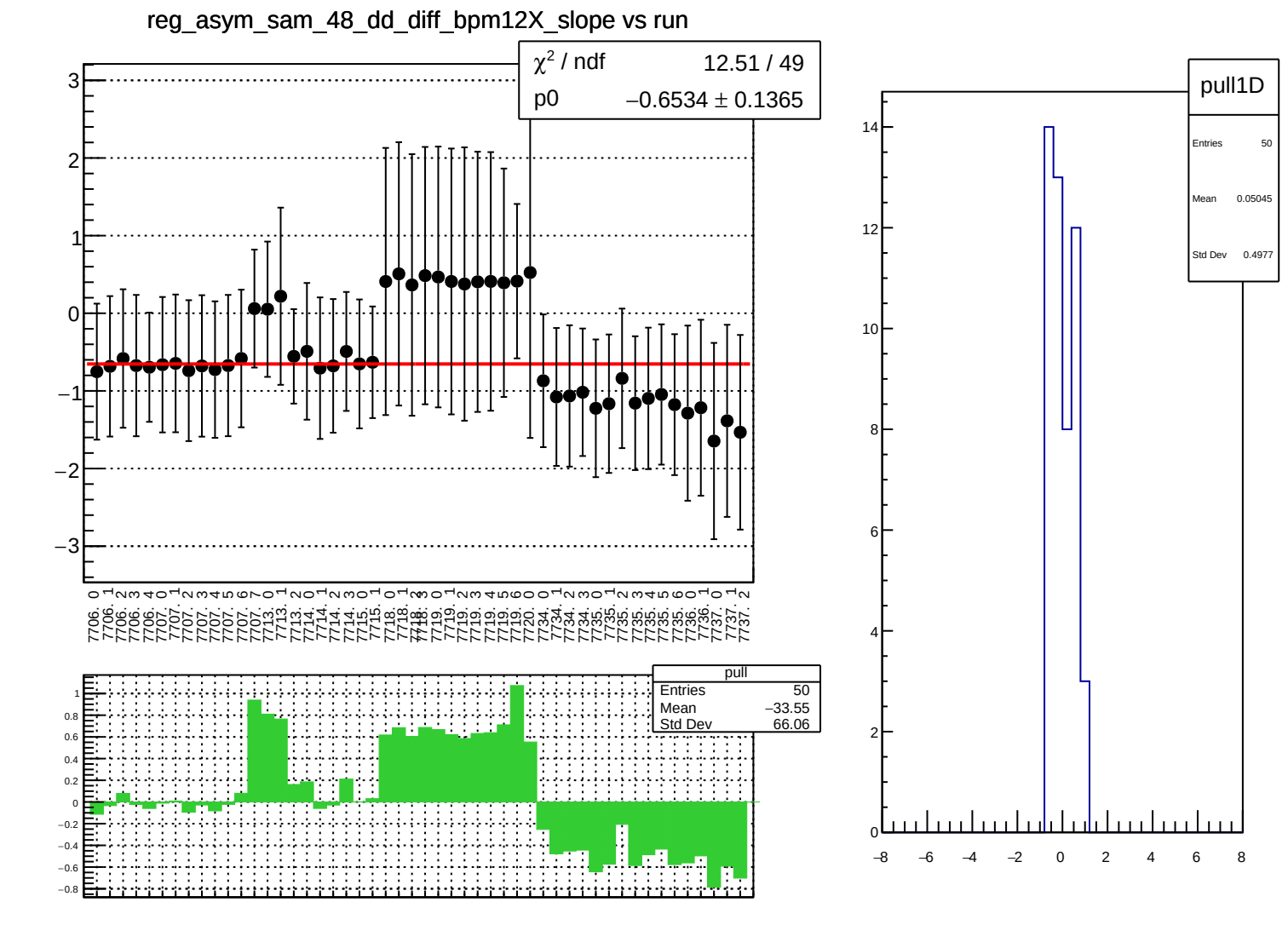

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 111.3 / 49
p0 52.21 ± 2.347
100
80
60
40
20
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 47.85
Std Dev 15.18
2
1
0
−1
−2
−3

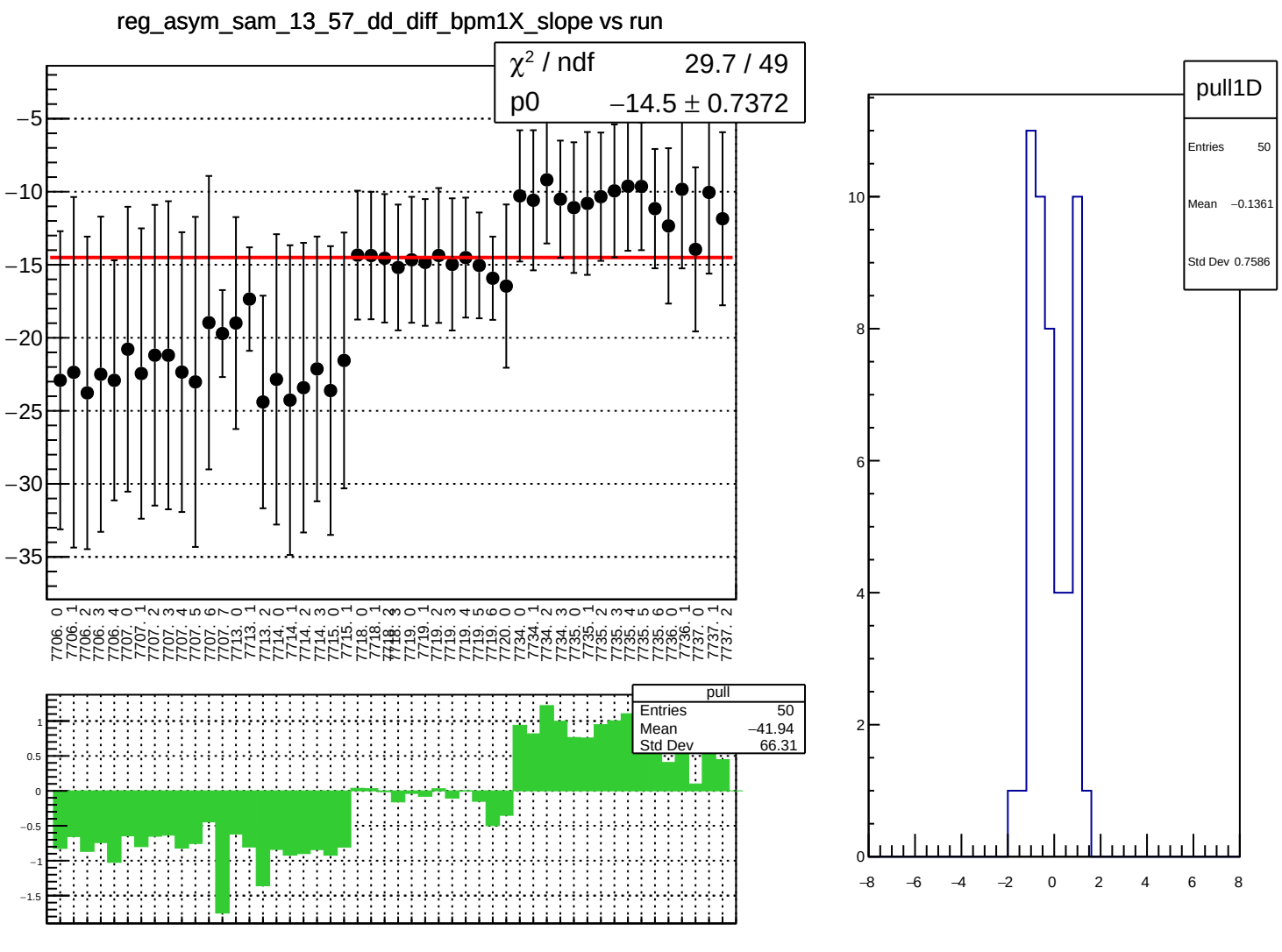

pull1D
Entries 50
Mean 0.2611
Std Dev 1.469
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

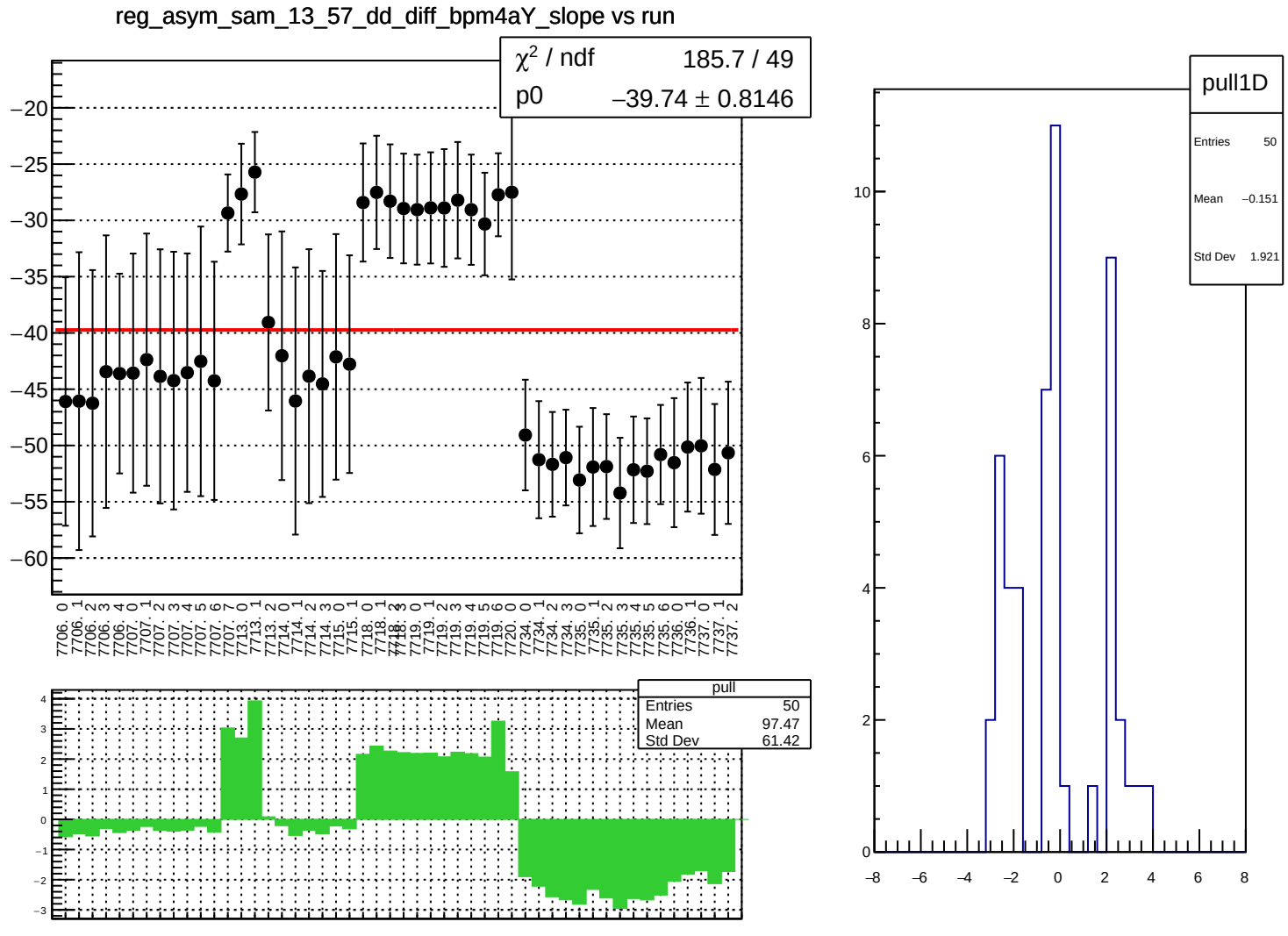

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 30.4 / 49
p0 −56.22 ± 1.881
pull
Entries 50
Mean 21.67
Std Dev 22.89

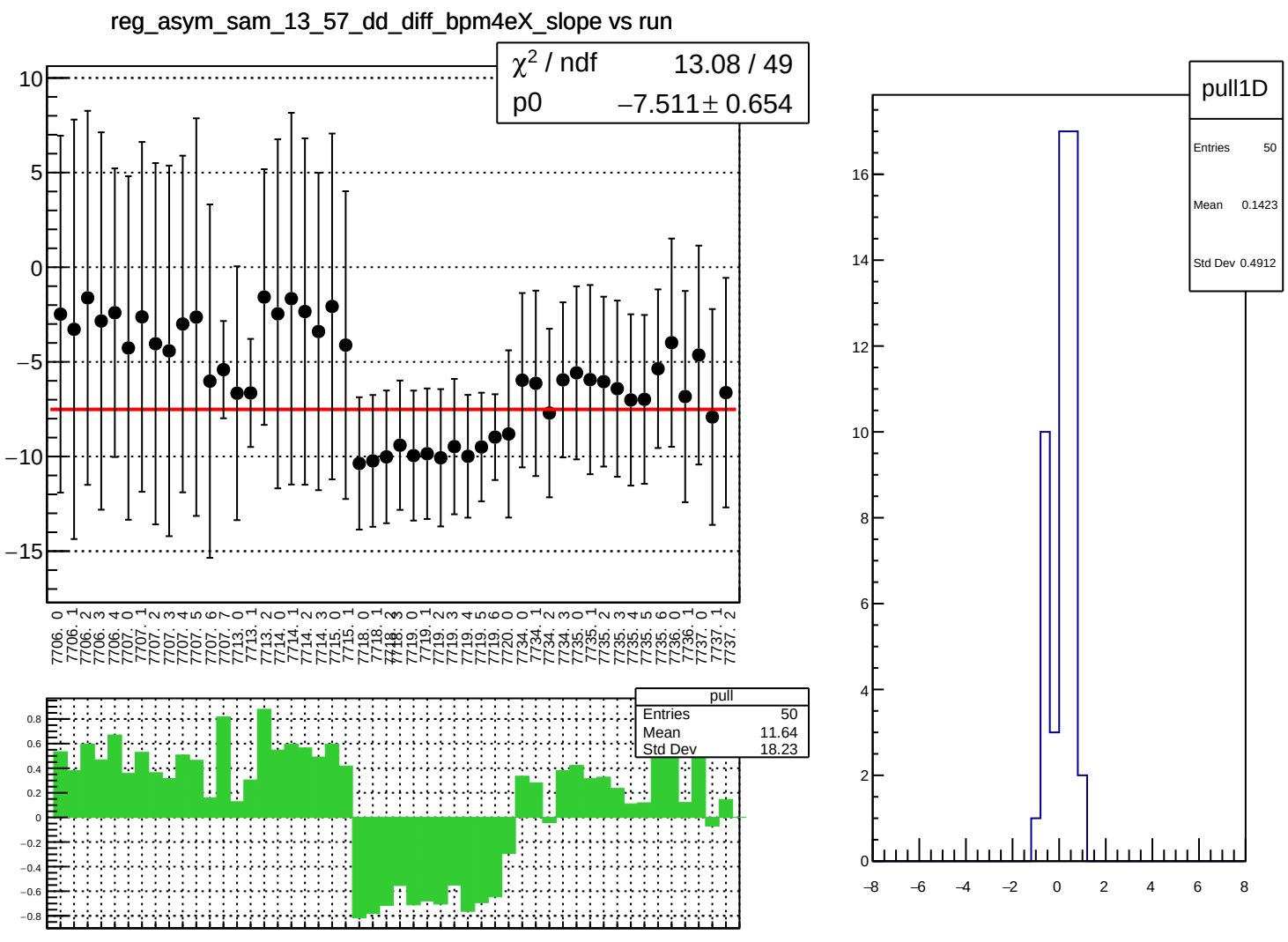

pull1D
Entries 50
Mean 0.2286
Std Dev 0.7455

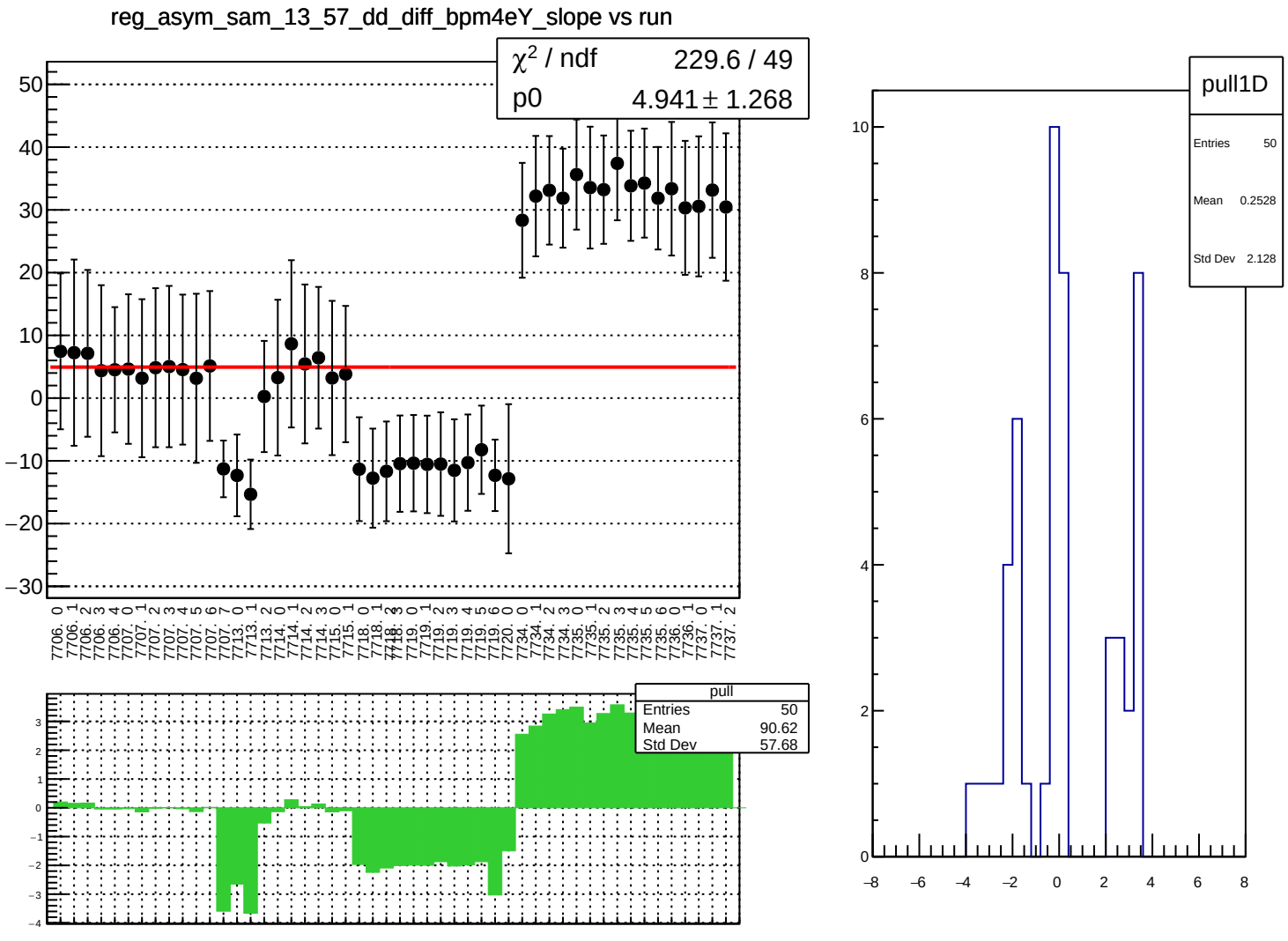

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 131 / 49
p0 46.88 ± 3.568
pull
Entries 50
Mean 59.78
Std Dev 23.11
pull1D
Entries 50
Mean −0.3034
Std Dev 1.59

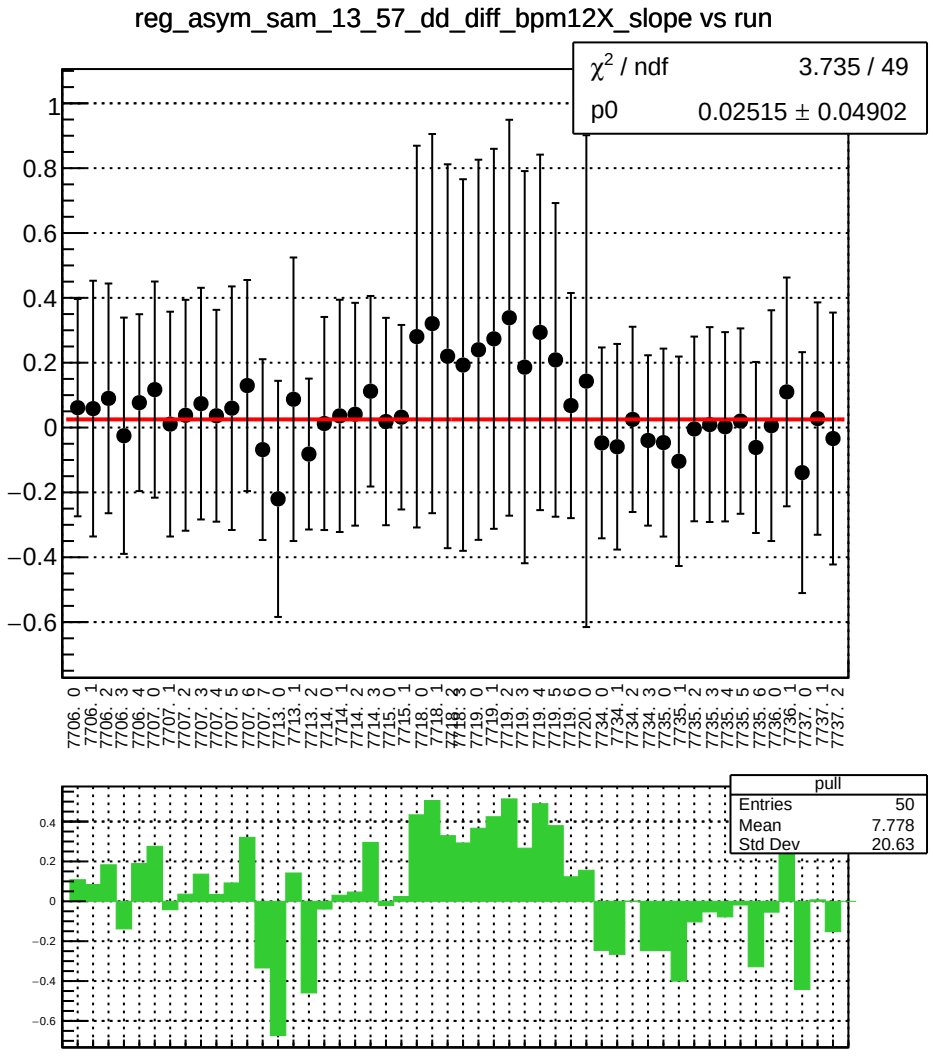

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.51 / 49
p0 −0.6534 ± 0.1365
pull
Entries 50
Mean −33.55
Std Dev 66.06
pull1D
Entries 50
Mean 0.05045
Std Dev 0.4977

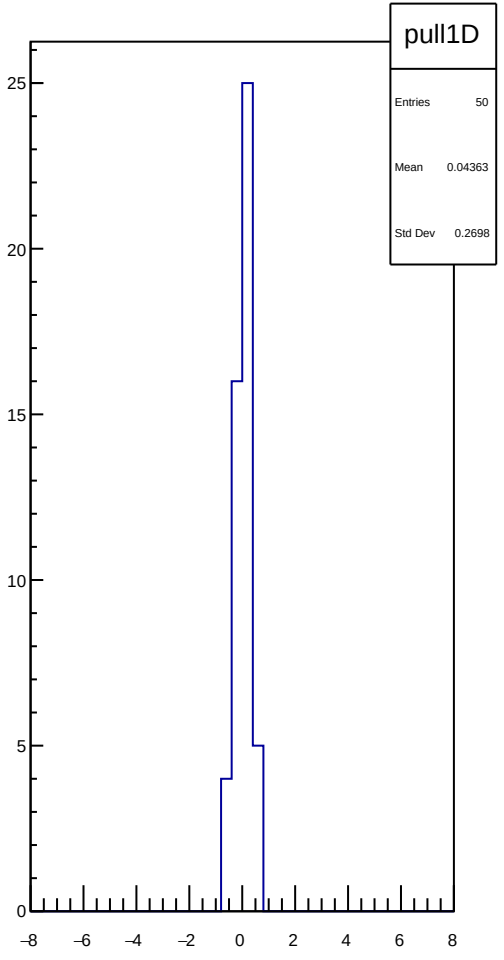

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 29.7 / 49
p0 −14.5 ± 0.7372
pull
Entries 50
Mean −41.94
Std Dev 66.31
pull1D
Entries 50
Mean −0.1361
Std Dev 0.7586

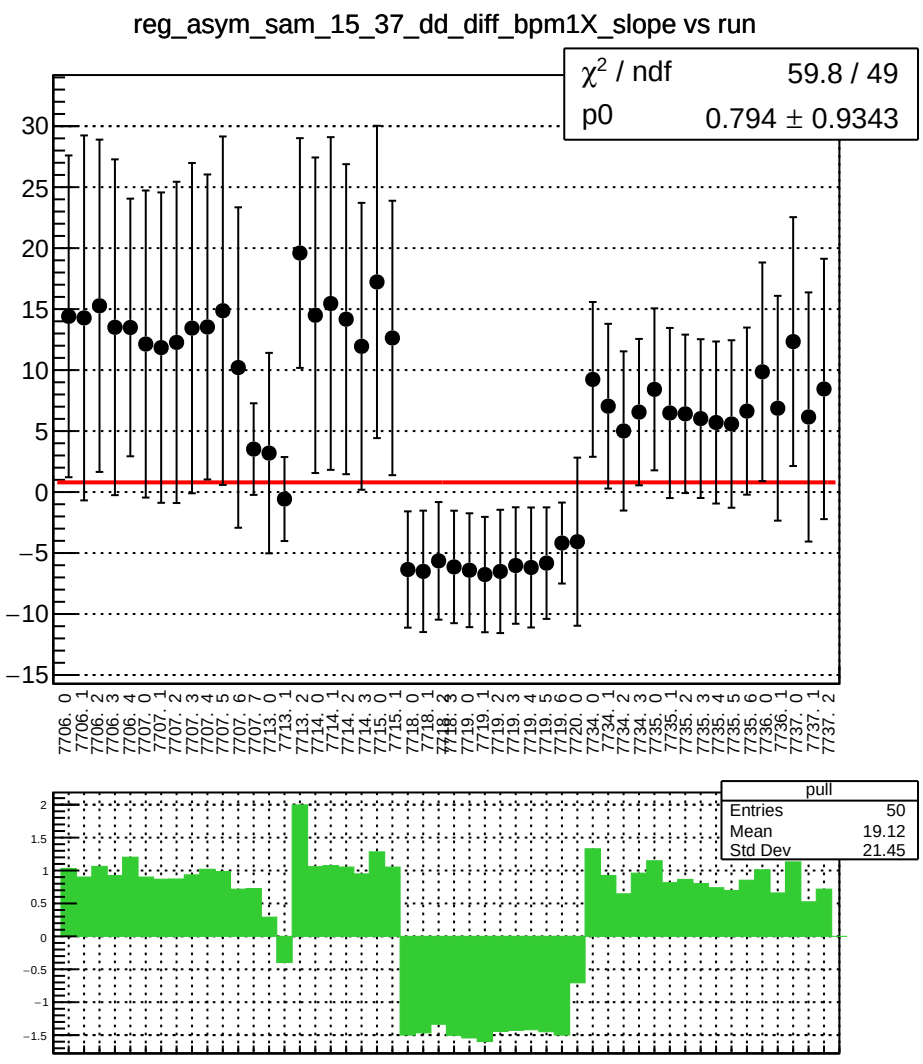

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 185.7 / 49
p0 −39.74 ± 0.8146
pull
Entries 50
Mean 97.47
Std Dev 61.42
pull1D
Entries 50
Mean −0.151
Std Dev 1.921

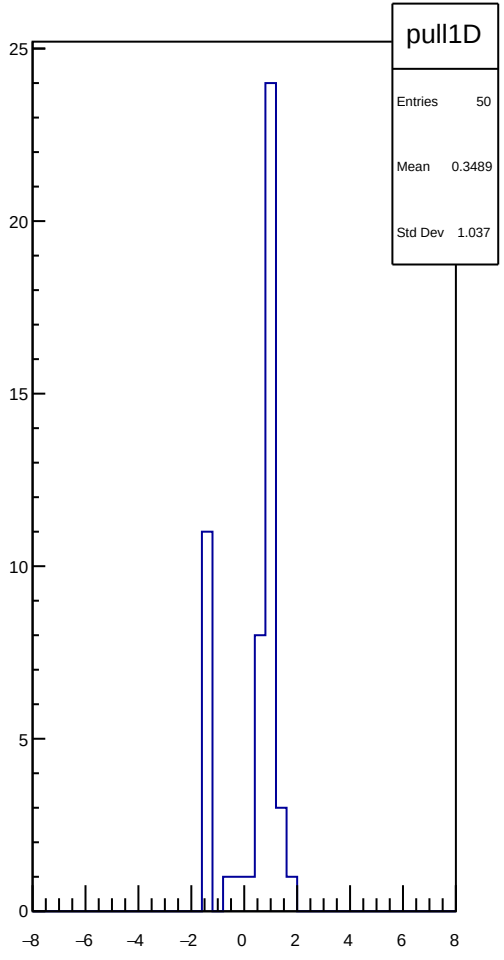

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.08 / 49
p0 −7.511 ± 0.654
pull
Entries 50
Mean 11.64
Std Dev 18.23
pull1D
Entries 50
Mean 0.1423
Std Dev 0.4912

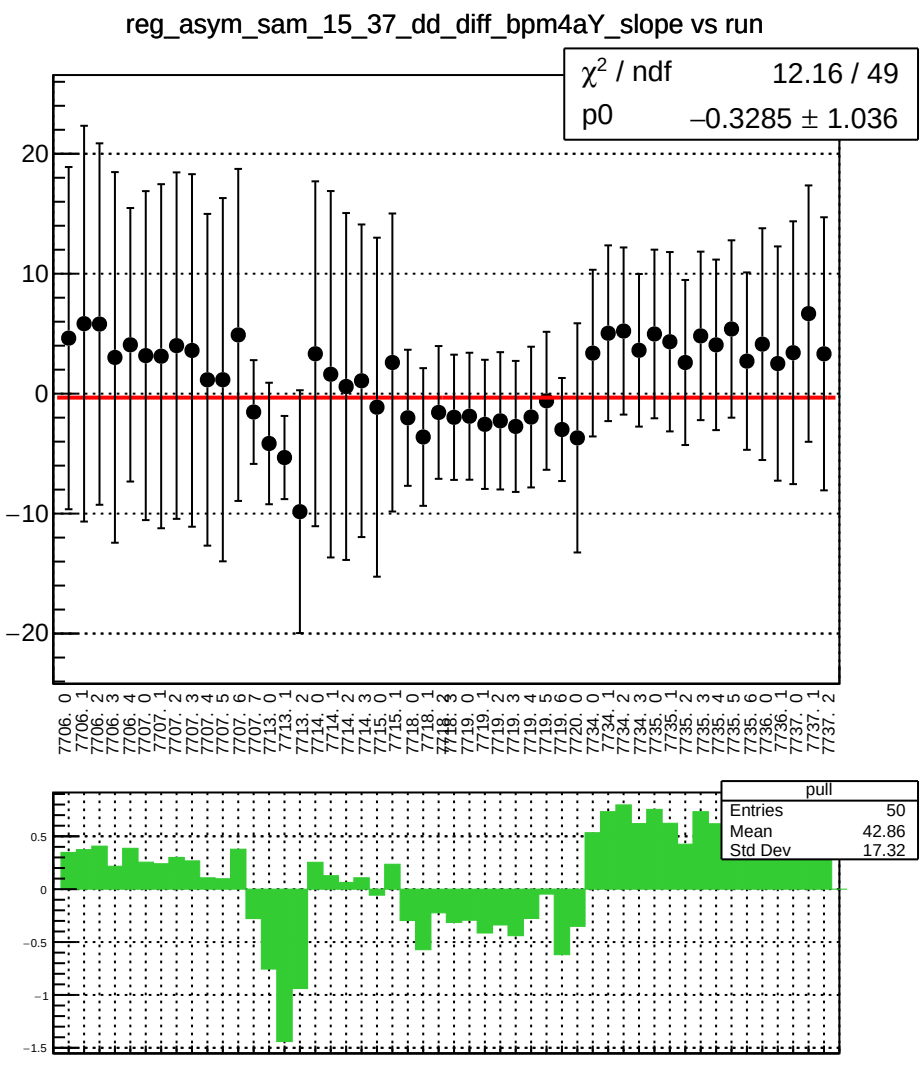

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 229.6 / 49
p0 4.941 ± 1.268
pull
Entries 50
Mean 90.62
Std Dev 57.68
pull1D
Entries 50
Mean 0.2528
Std Dev 2.128

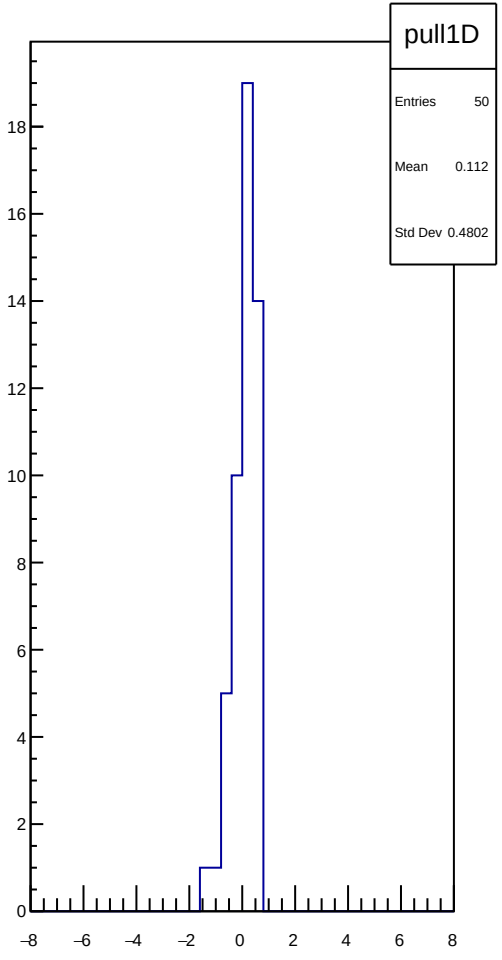

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 3.735 / 49
p0 0.02515 ± 0.04902
pull
Entries 50
Mean 7.778
Std Dev 20.63

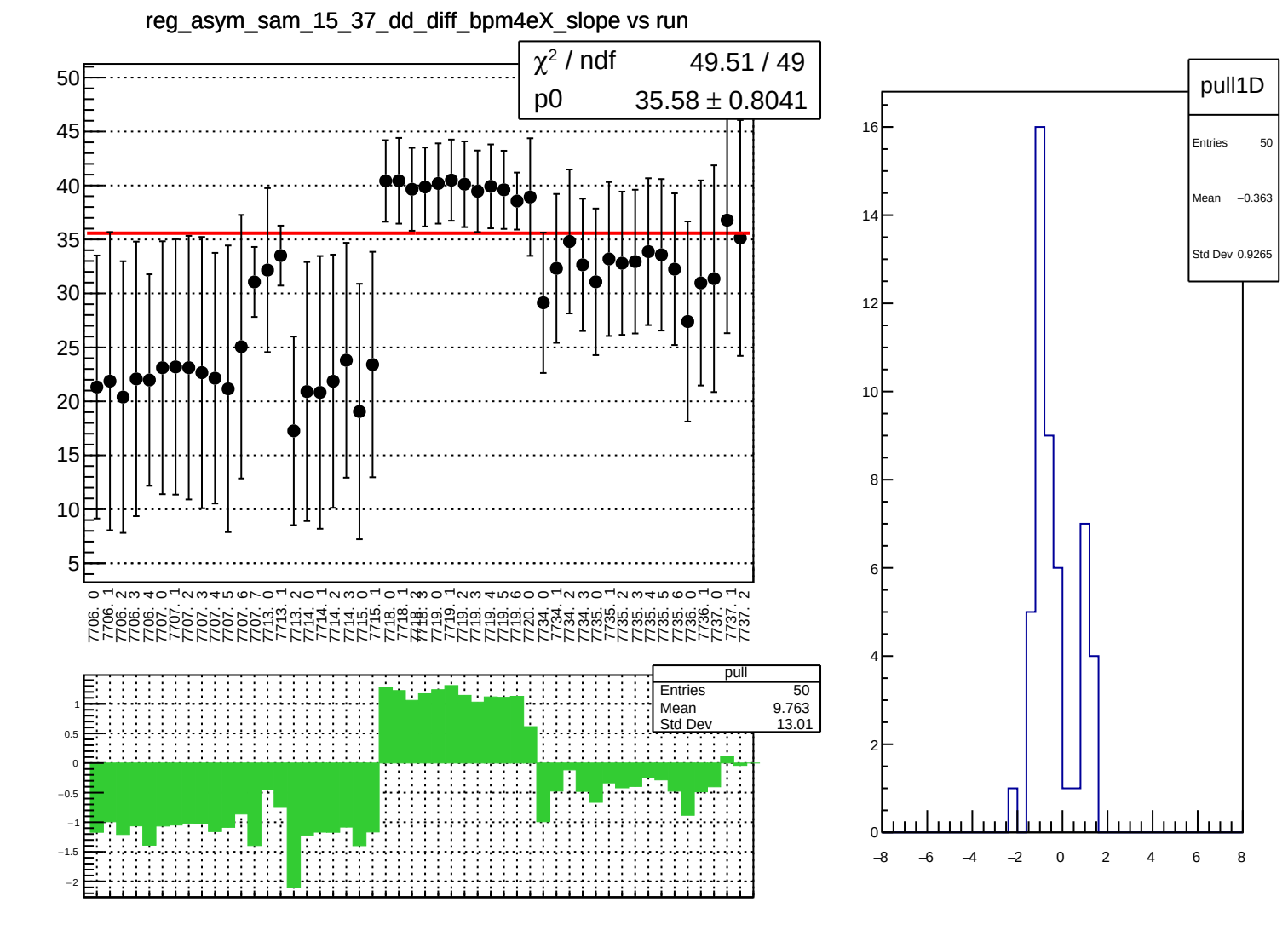

pull1D
Entries 50
Mean 0.04363
Std Dev 0.2698

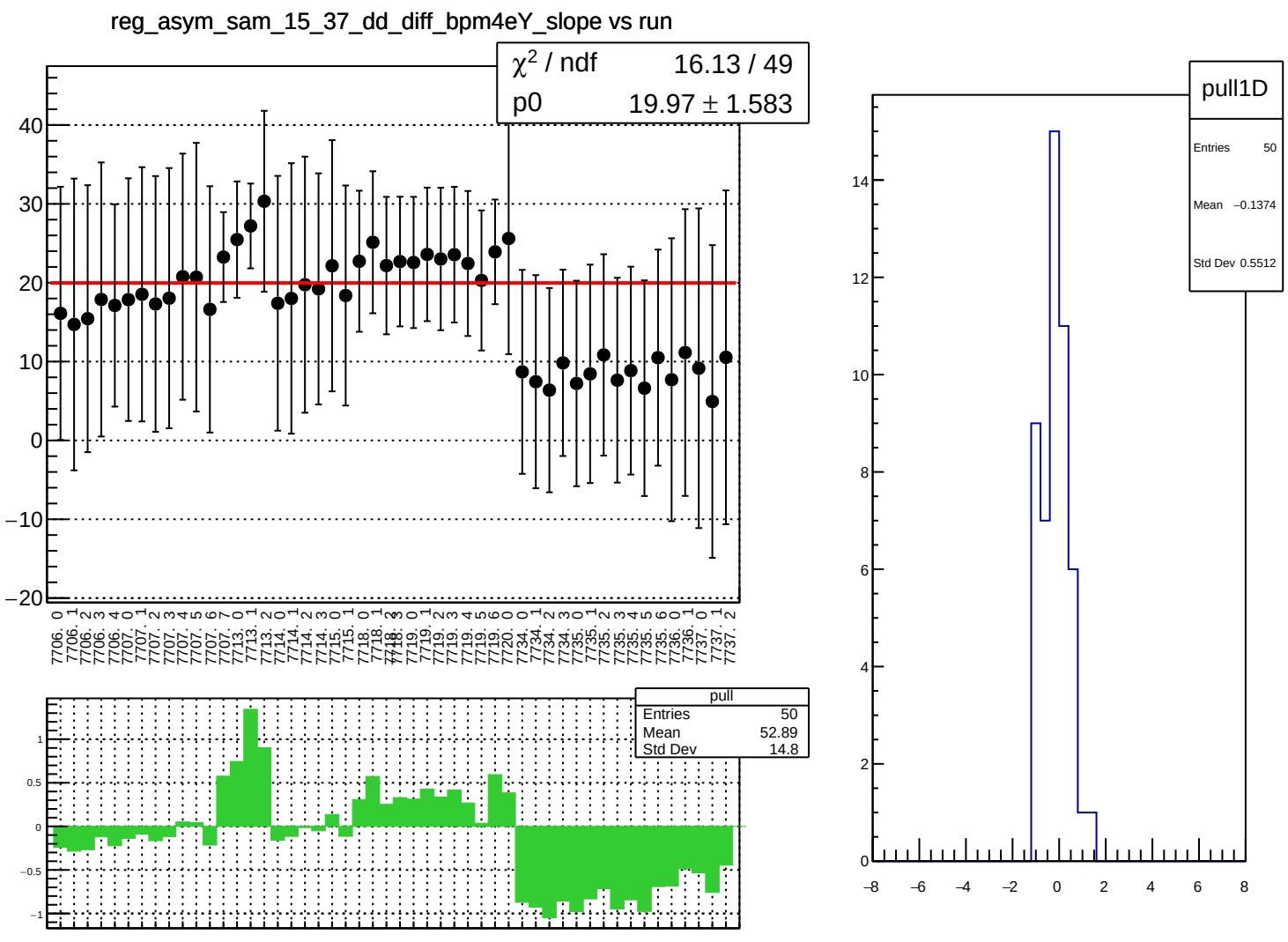

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 59.8 / 49
p0 0.794 ± 0.9343
pull
Entries 50
Mean 19.12
Std Dev 21.45

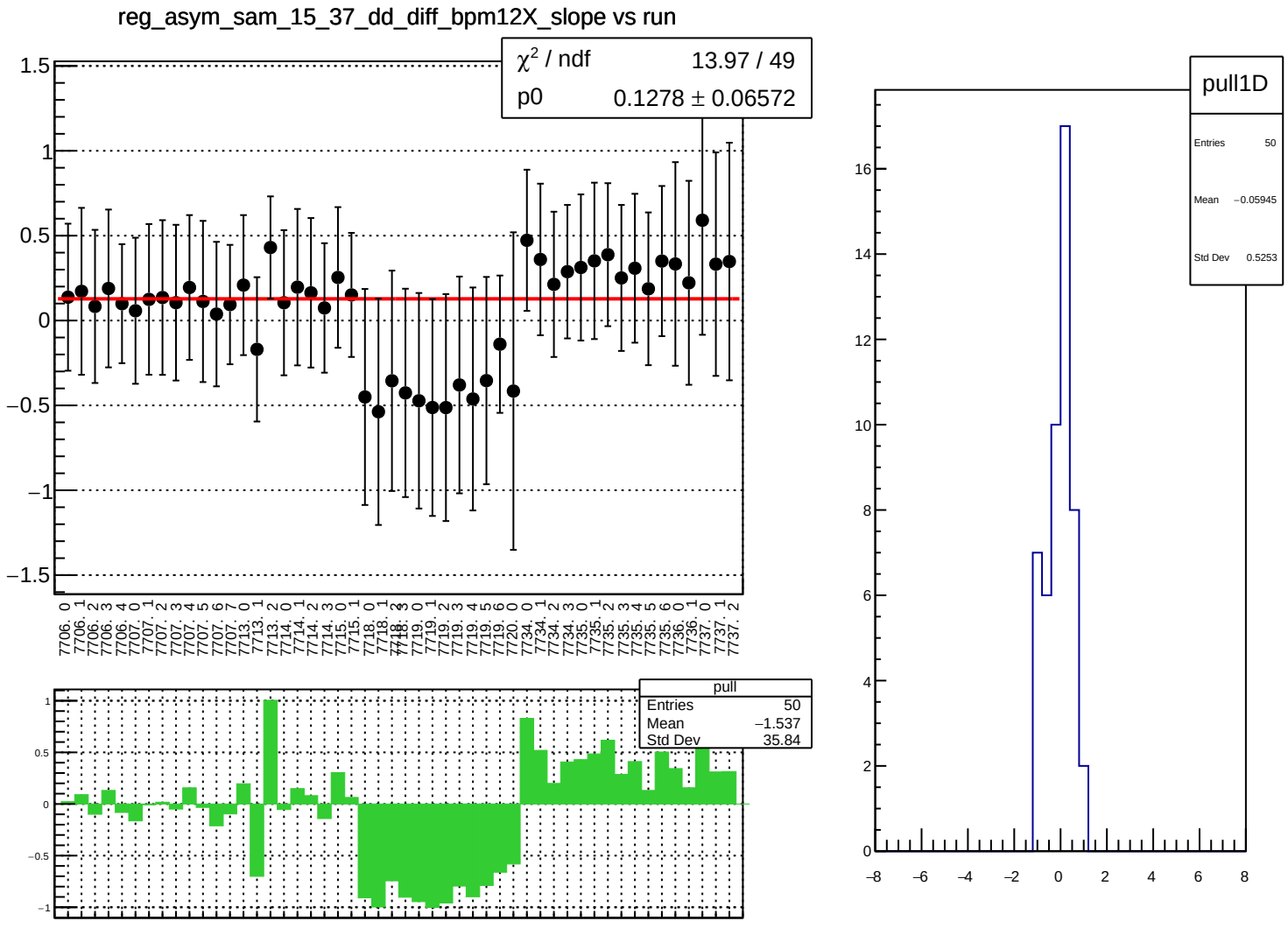

pull1D
Entries 50
Mean 0.3489
Std Dev 1.037

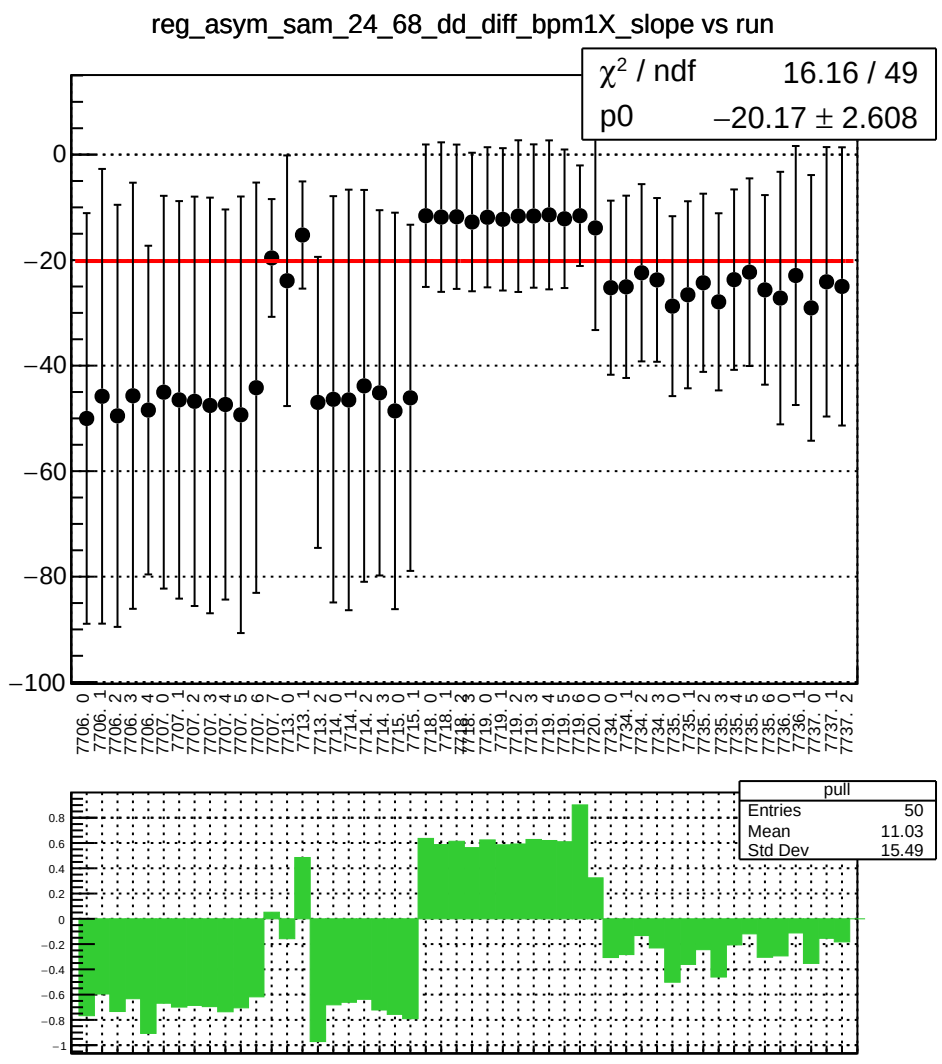

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.16 / 49
p0 −0.3285 ± 1.036
pull
Entries 50
Mean 42.86
Std Dev 17.32

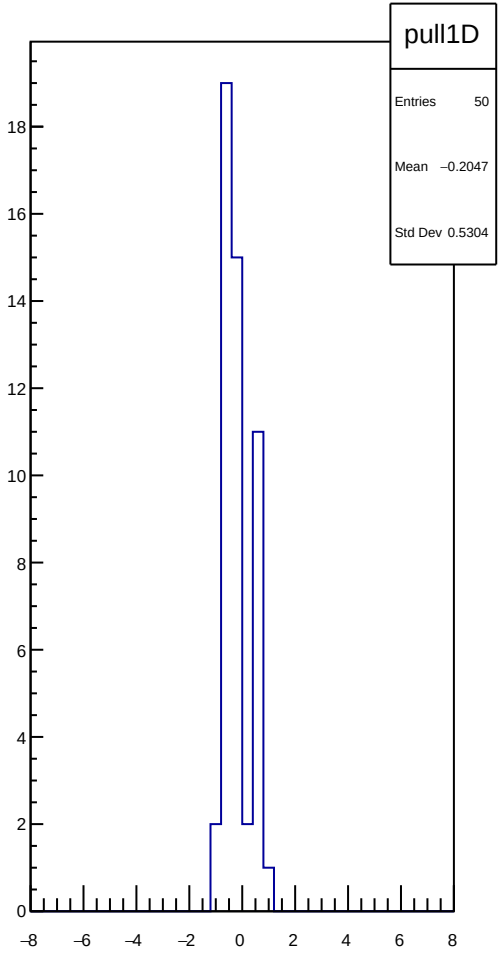

pull1D
Entries 50
Mean 0.112
Std Dev 0.4802

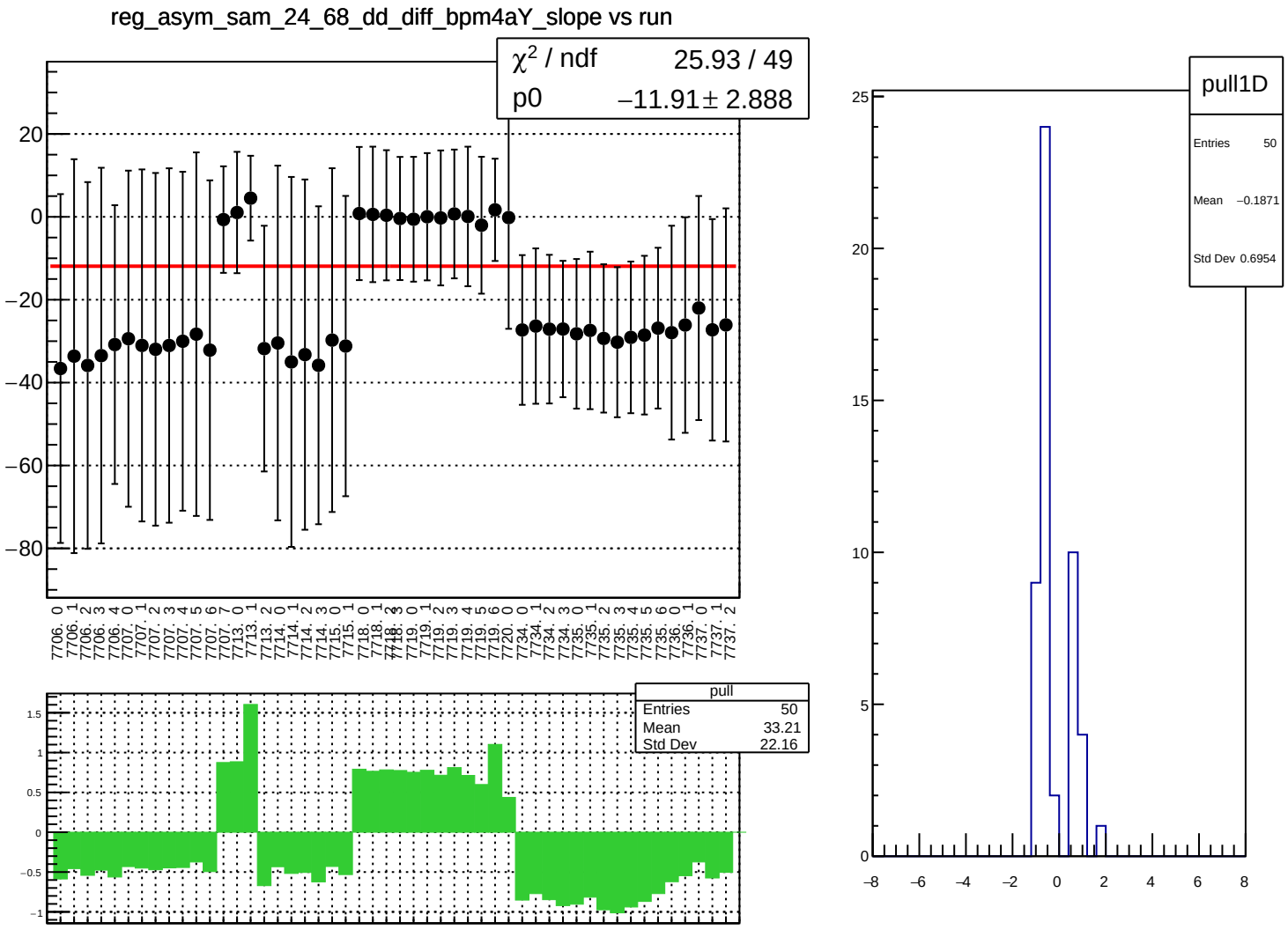

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.51 / 49
p0 35.58 ± 0.8041
pull
Entries 50
Mean 9.763
Std Dev 13.01
pull1D
Entries 50
Mean −0.363
Std Dev 0.9265

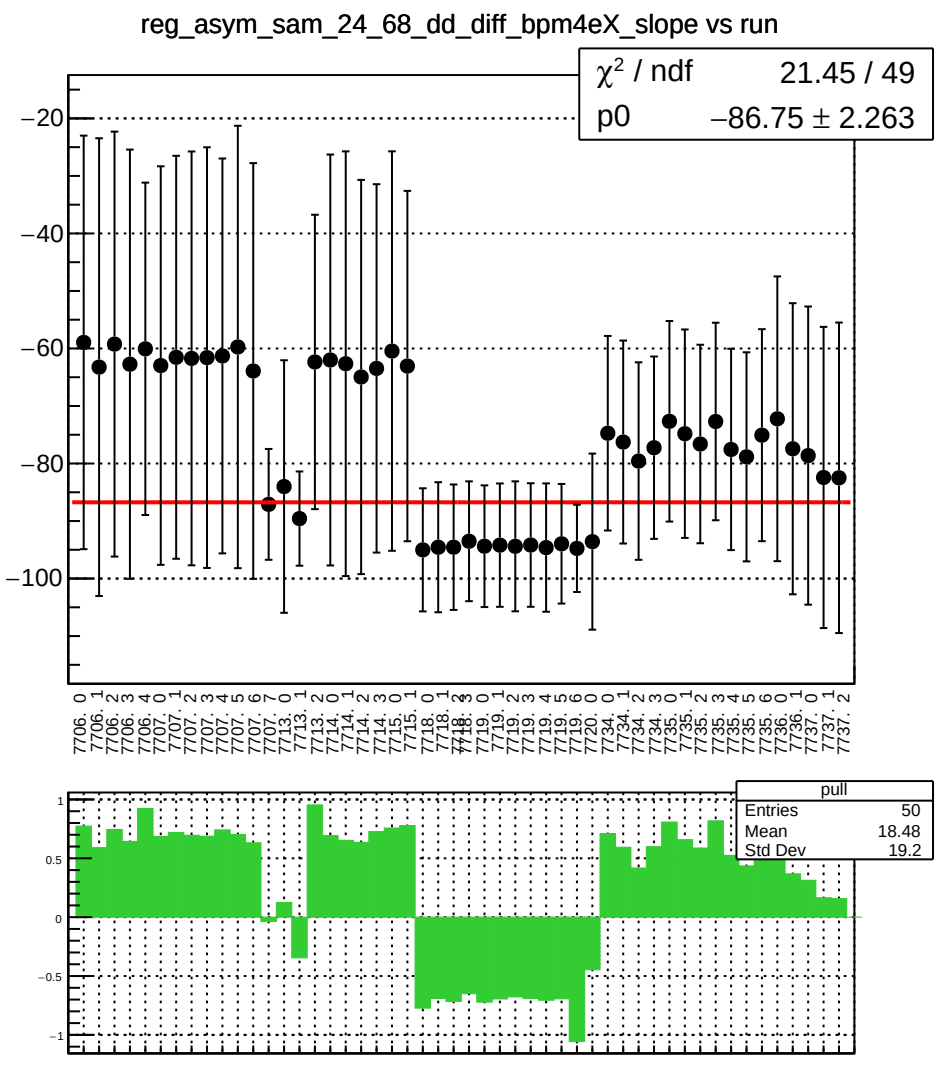

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.13 / 49
p0 19.97 ± 1.583
pull
Entries 50
Mean 52.89
Std Dev 14.8
pull1D
Entries 50
Mean −0.1374
Std Dev 0.5512

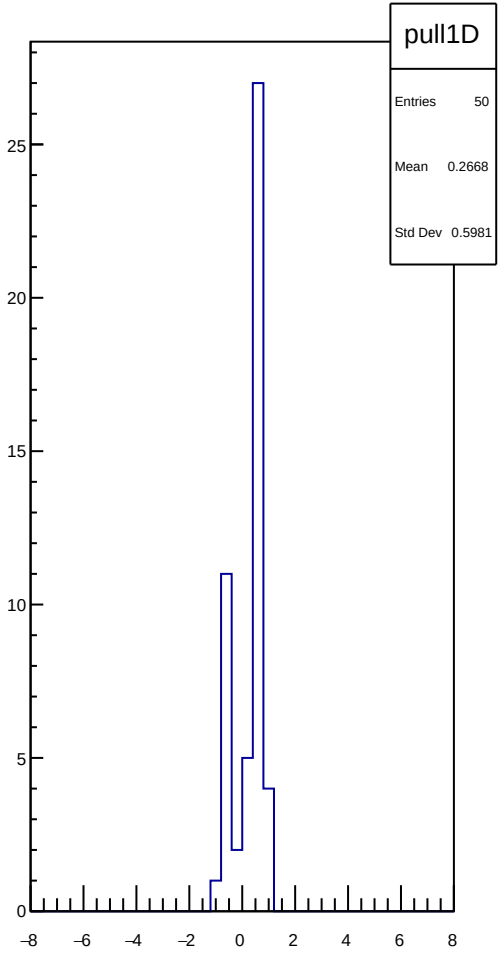

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 13.97 / 49
p0 0.1278 ± 0.06572
pull
Entries 50
Mean −1.537
Std Dev 35.84
pull1D
Entries 50
Mean −0.05945
Std Dev 0.5253

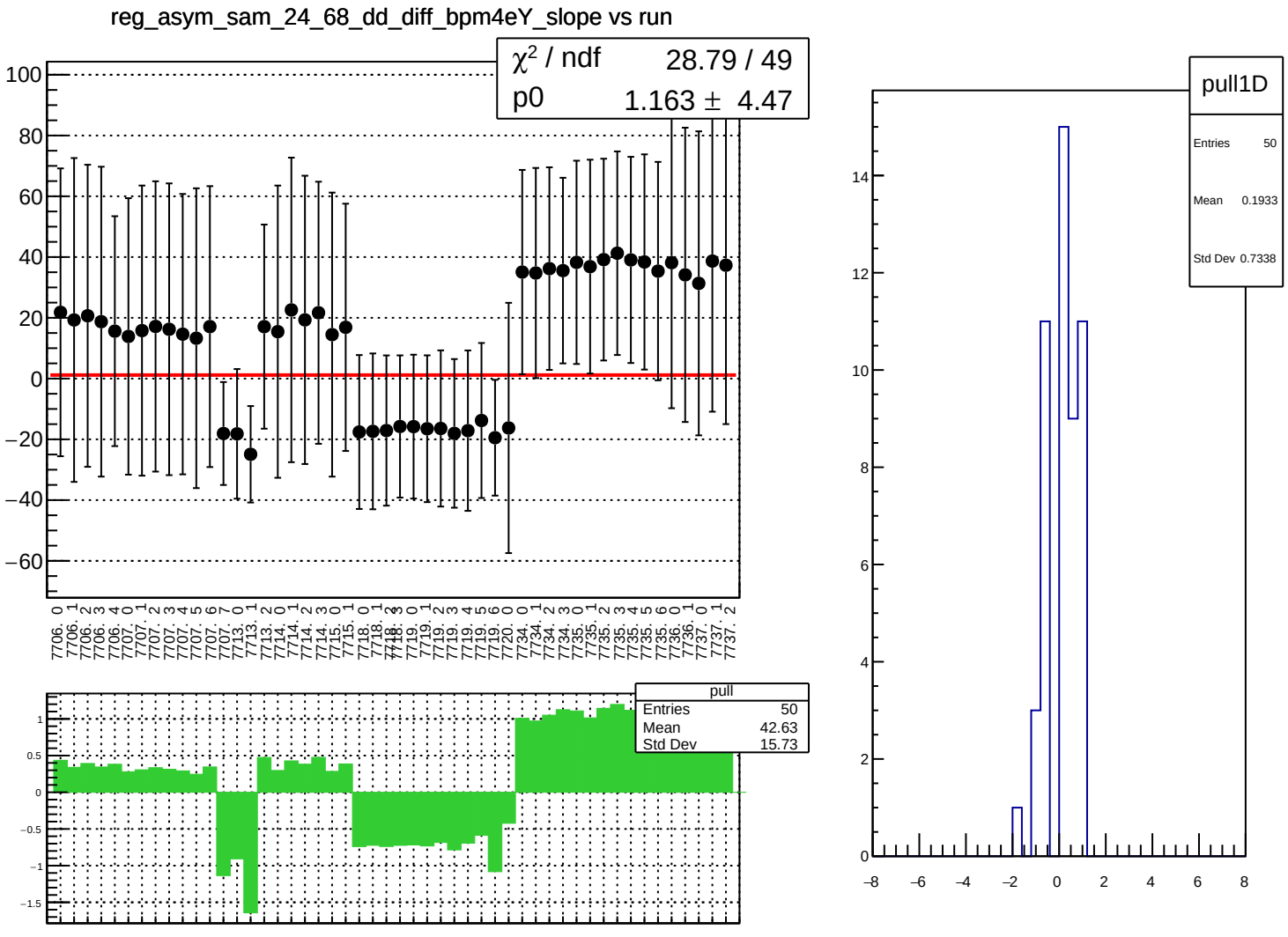

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 16.16 / 49
p0 −20.17 ± 2.608
pull
Entries 50
Mean 11.03
Std Dev 15.49

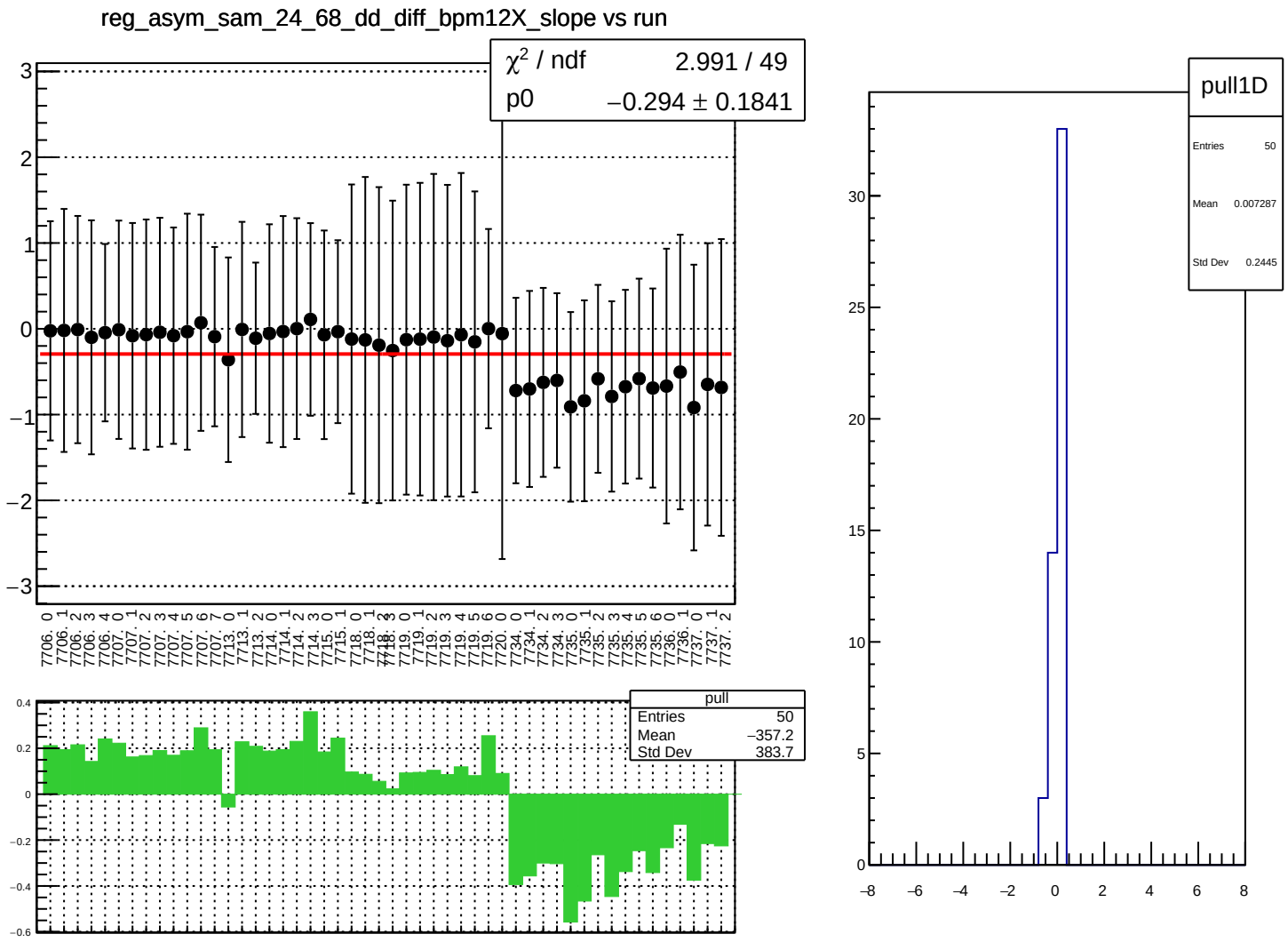

pull1D
Entries 50
Mean −0.2047
Std Dev 0.5304

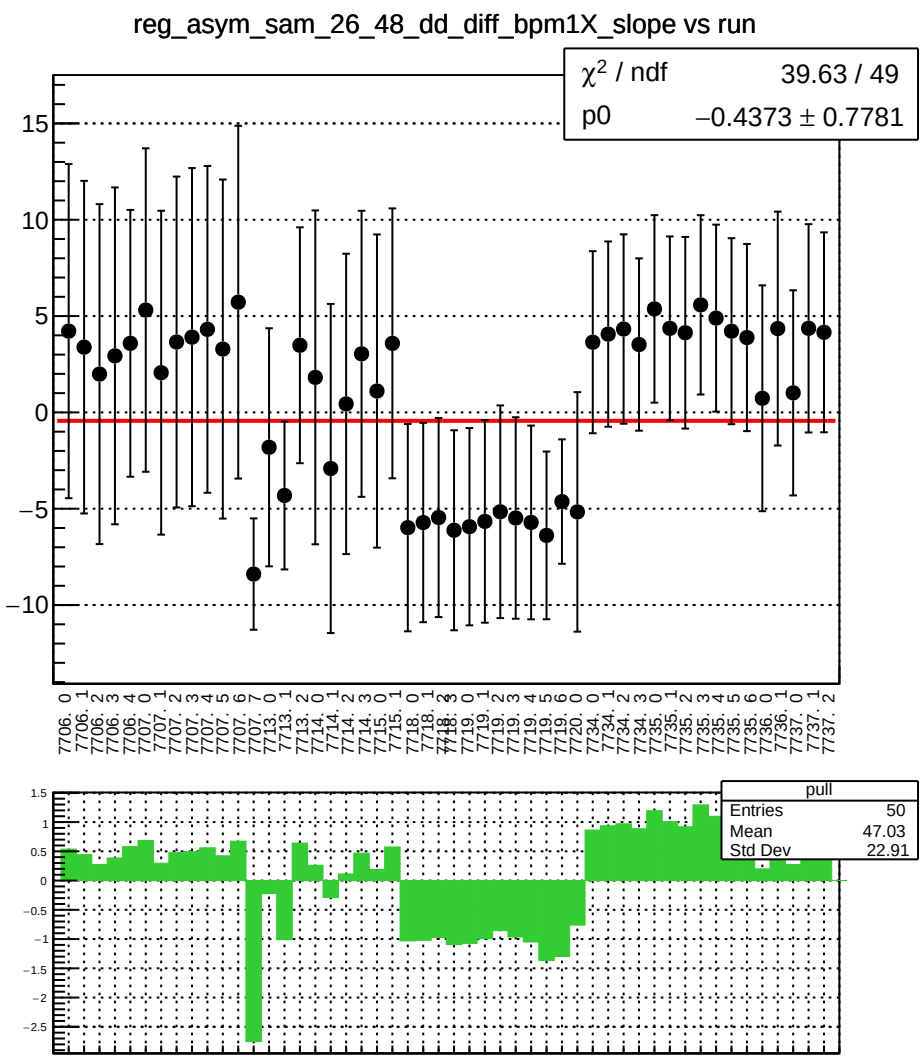

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.93 / 49
p0 −11.91± 2.888
pull
Entries 50
Mean 33.21
Std Dev 22.16
pull1D
Entries 50
Mean −0.1871
Std Dev 0.6954

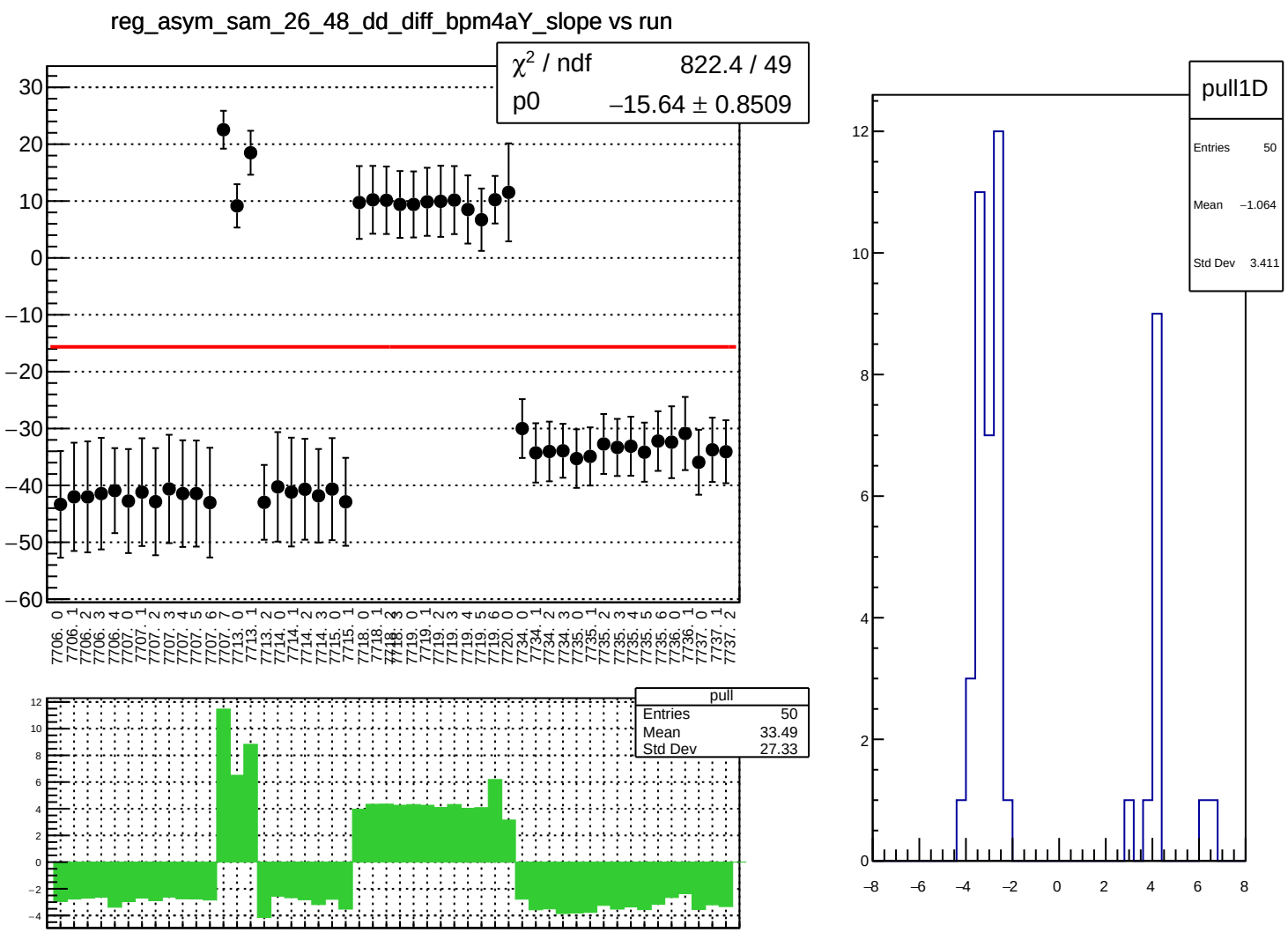

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.45 / 49
p0 −86.75 ± 2.263
pull
Entries 50
Mean 18.48
Std Dev 19.2

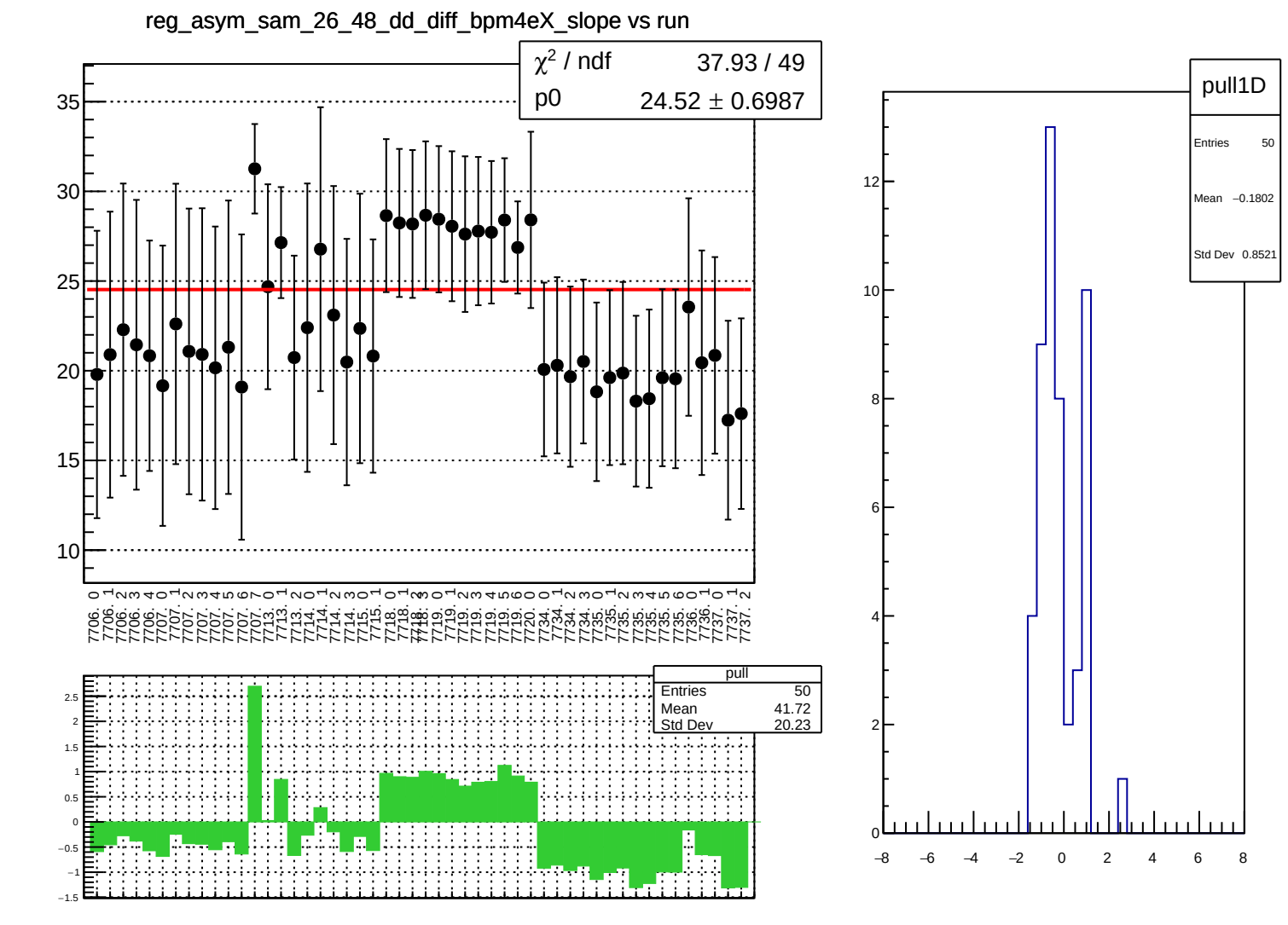

pull1D
Entries 50
Mean 0.2668
Std Dev 0.5981

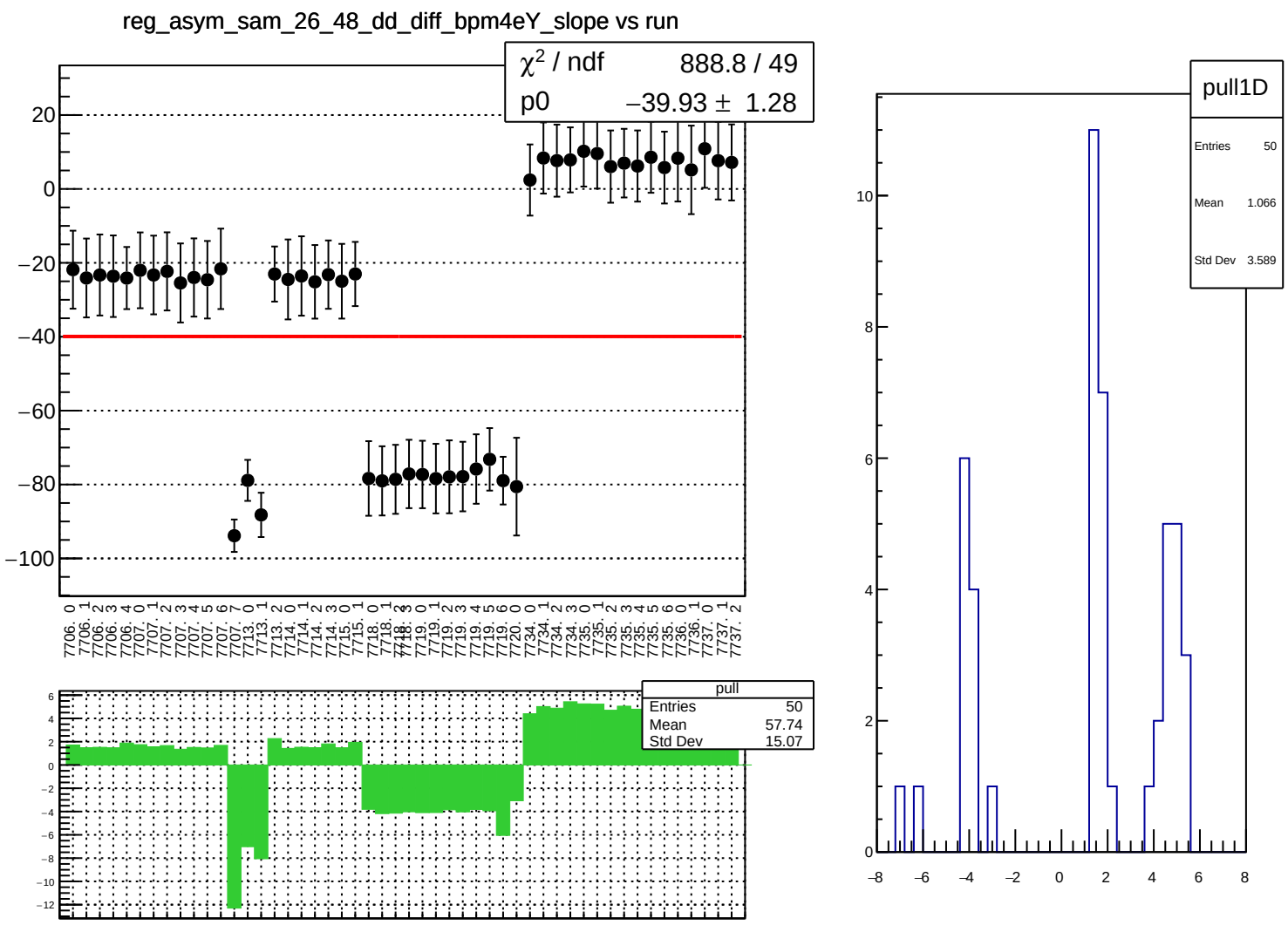

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 28.79 / 49
p0 1.163 ± 4.47
pull
Entries 50
Mean 42.63
Std Dev 15.73
pull1D
Entries 50
Mean 0.1933
Std Dev 0.7338

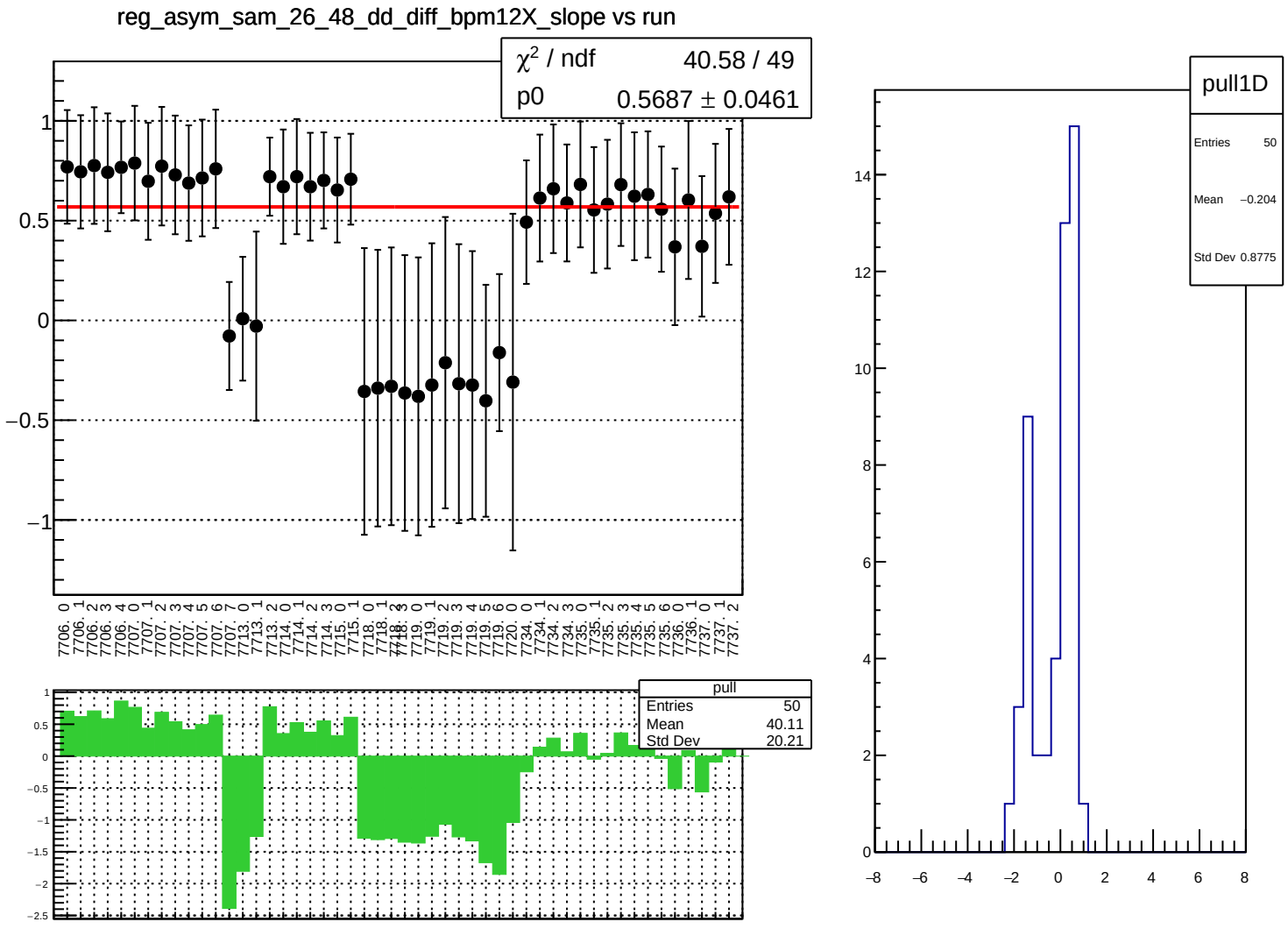

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.991 / 49
p0 −0.294 ± 0.1841
pull
Entries 50
Mean −357.2
Std Dev 383.7
pull1D
Entries 50
Mean 0.007287
Std Dev 0.2445

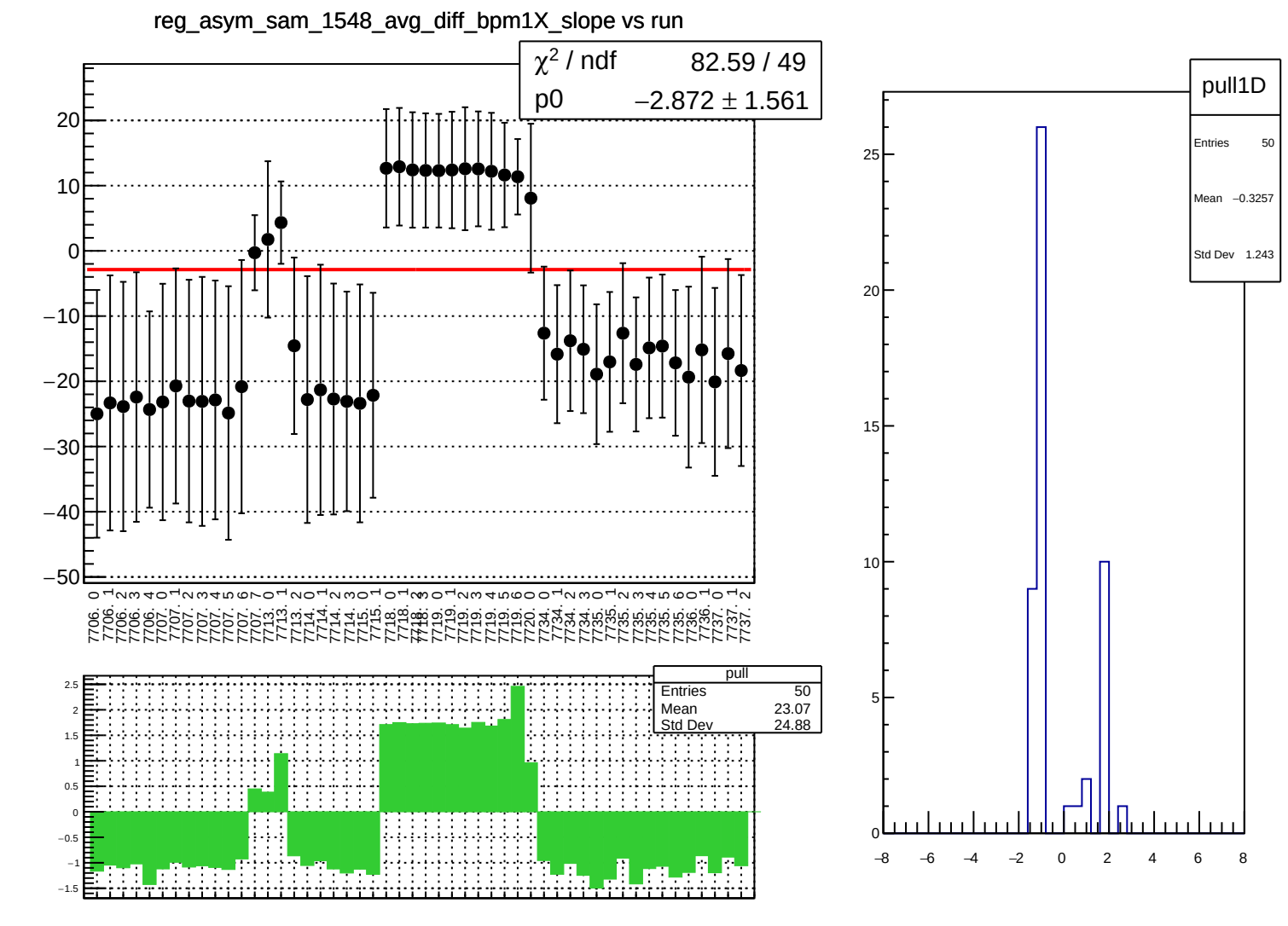

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 39.63 / 49
p0 −0.4373 ± 0.7781
15
10
5
0
−5
−10
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 47.03
Std Dev 22.91
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 50
Mean 0.1076
Std Dev 0.8838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

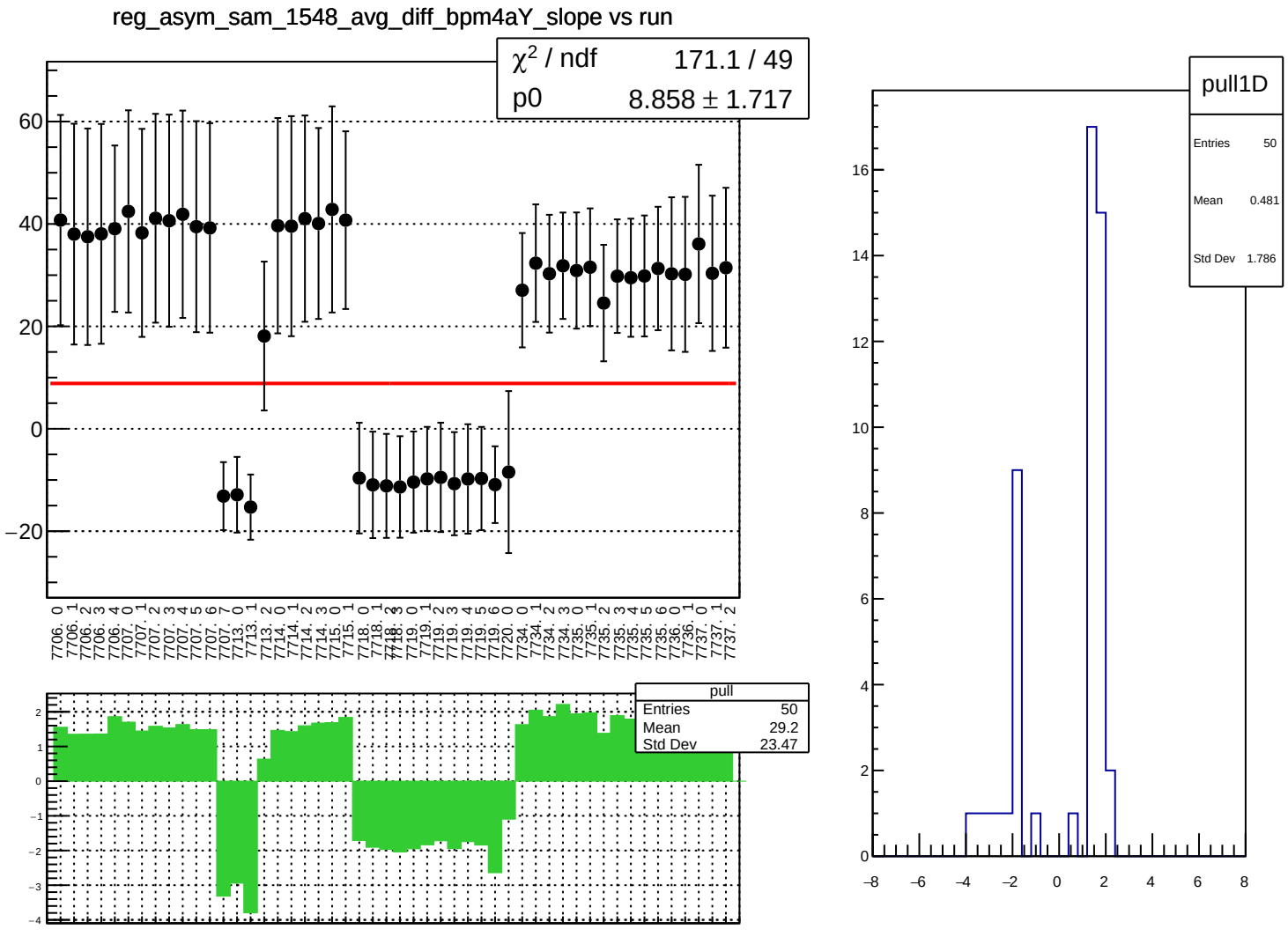

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 822.4 / 49
p0 −15.64 ± 0.8509
pull
Entries 50
Mean 33.49
Std Dev 27.33
pull1D
Entries 50
Mean −1.064
Std Dev 3.411

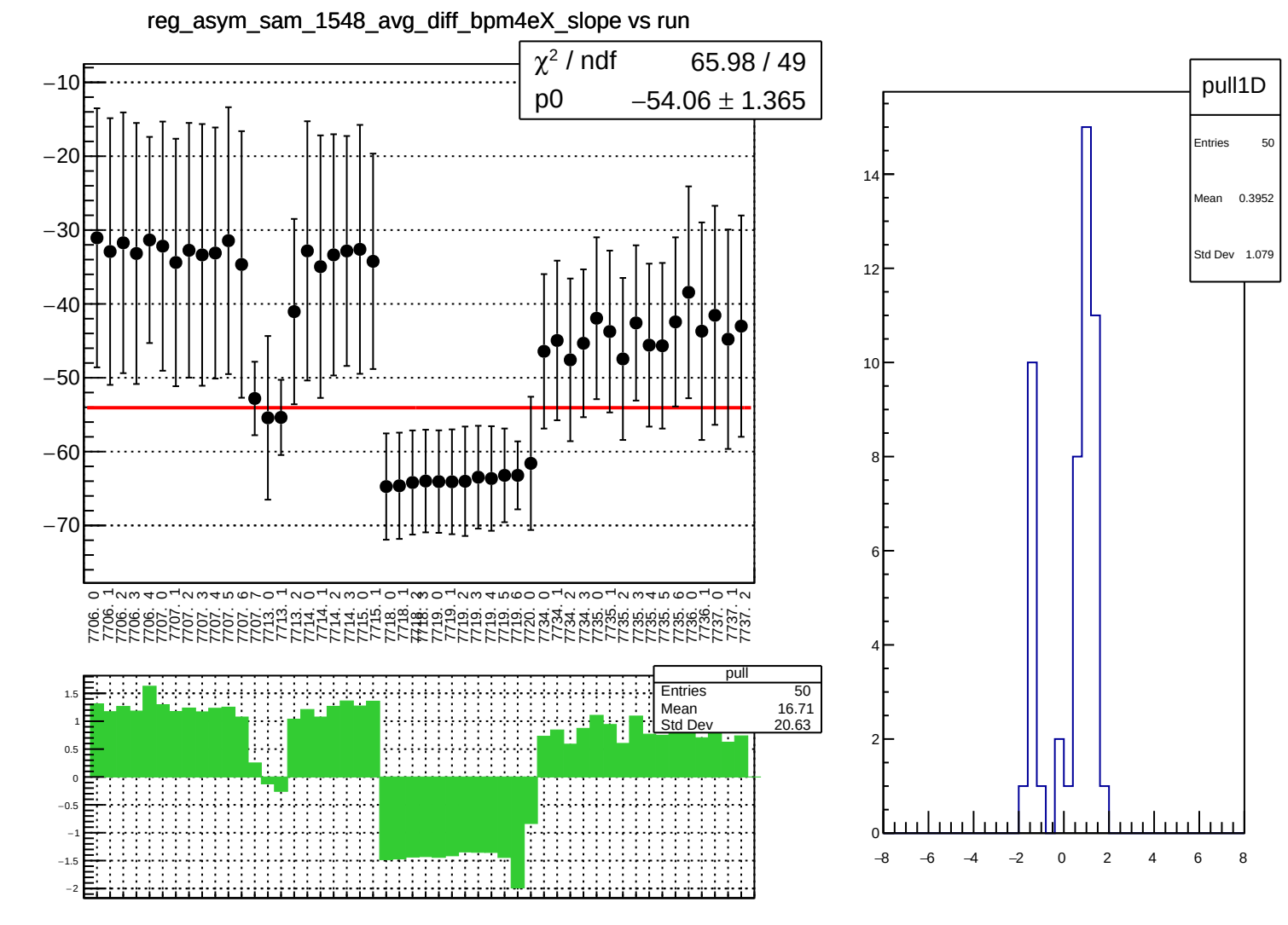

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.93 / 49
p0 24.52 ± 0.6987
pull
Entries 50
Mean 41.72
Std Dev 20.23
pull1D
Entries 50
Mean −0.1802
Std Dev 0.8521

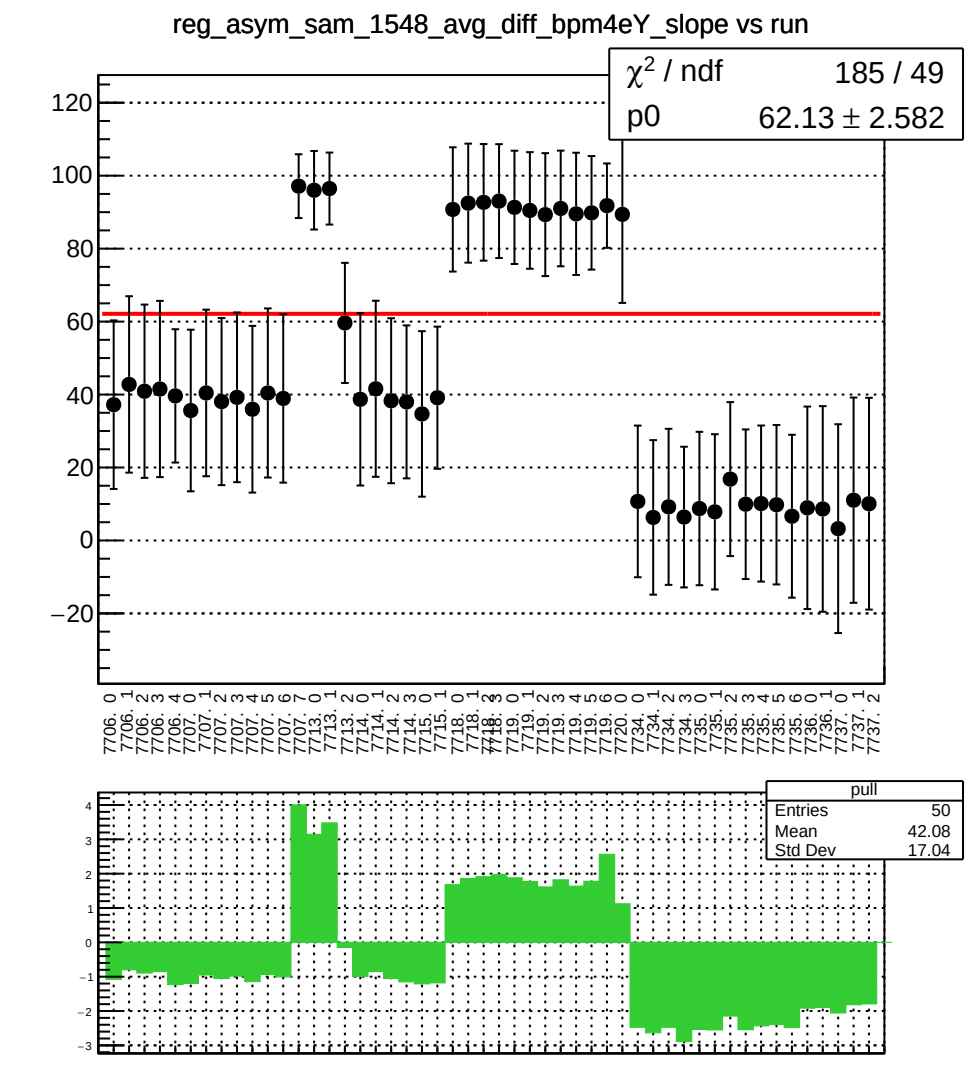

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 888.8 / 49
p0 −39.93 ± 1.28
20
0
−20
−40
−60
−80
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 57.74
Std Dev 15.07
6
4
2
0
−2
−4
−6
−8
−10
−12
pull1D
Entries 50
Mean 1.066
Std Dev 3.589
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

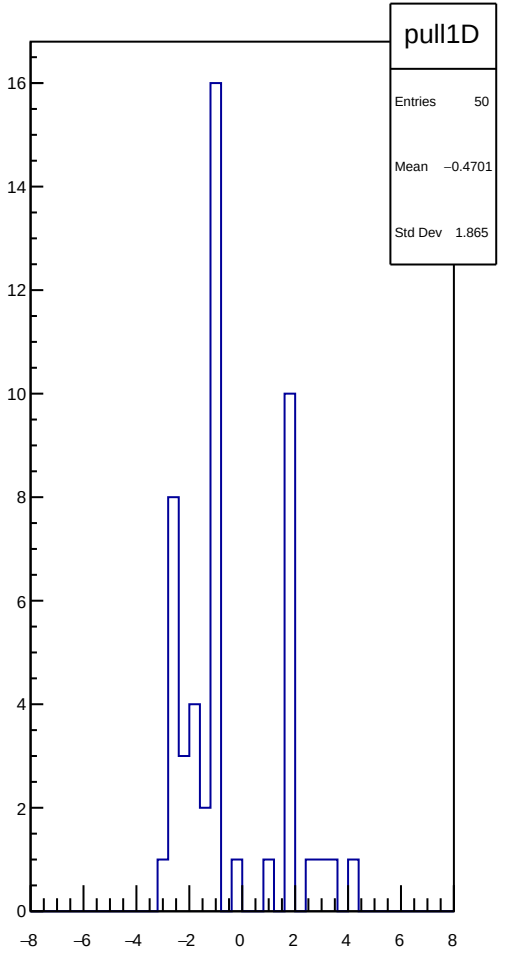

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 40.58 / 49
p0 0.5687 ± 0.0461
pull
Entries 50
Mean 40.11
Std Dev 20.21
pull1D
Entries 50
Mean −0.204
Std Dev 0.8775

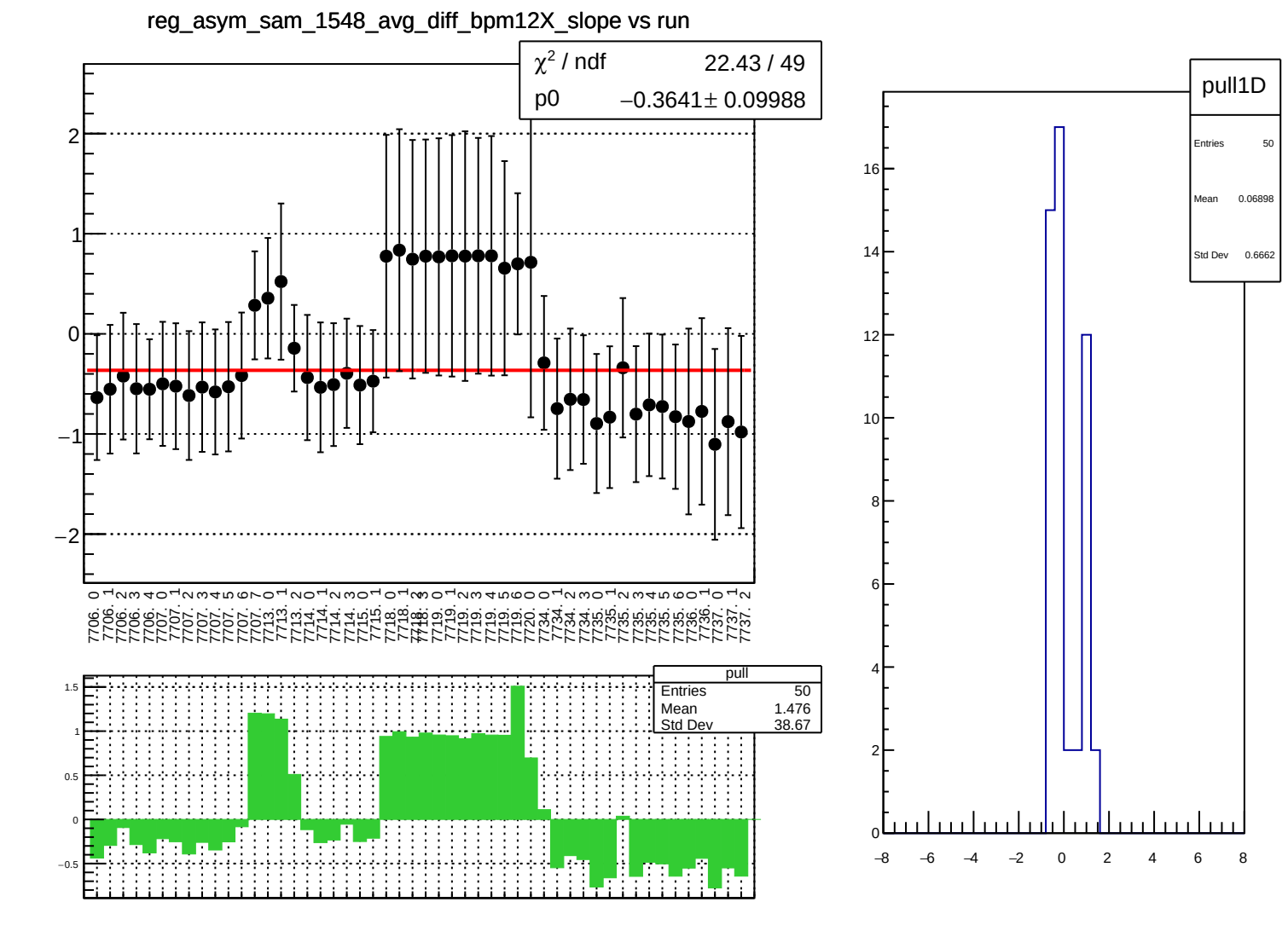

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 82.59 / 49
p0 −2.872 ± 1.561
pull
Entries 50
Mean 23.07
Std Dev 24.88
pull1D
Entries 50
Mean −0.3257
Std Dev 1.243

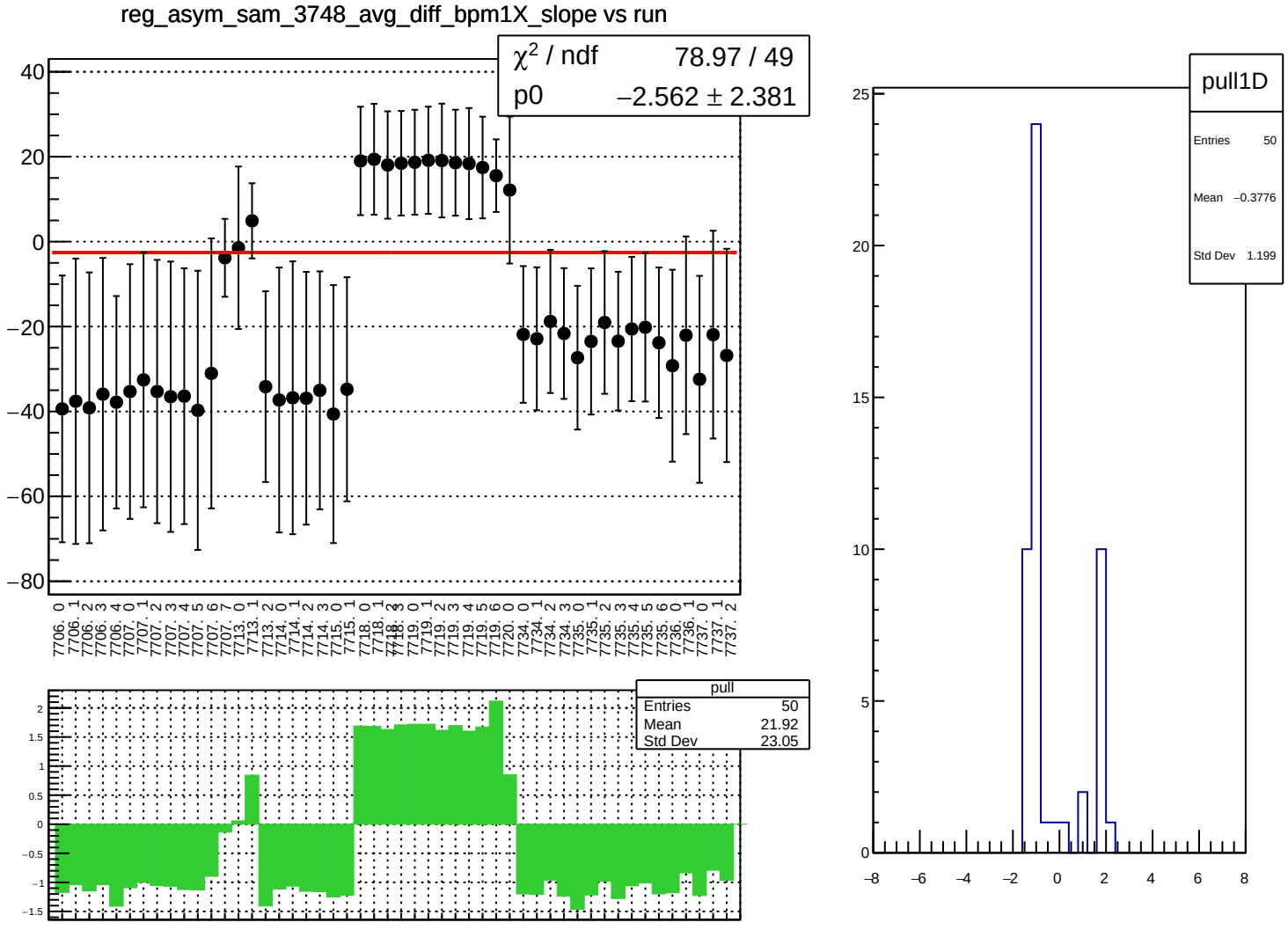

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 171.1 / 49
p0 8.858 ± 1.717
pull
Entries 50
Mean 29.2
Std Dev 23.47
pull1D
Entries 50
Mean 0.481
Std Dev 1.786

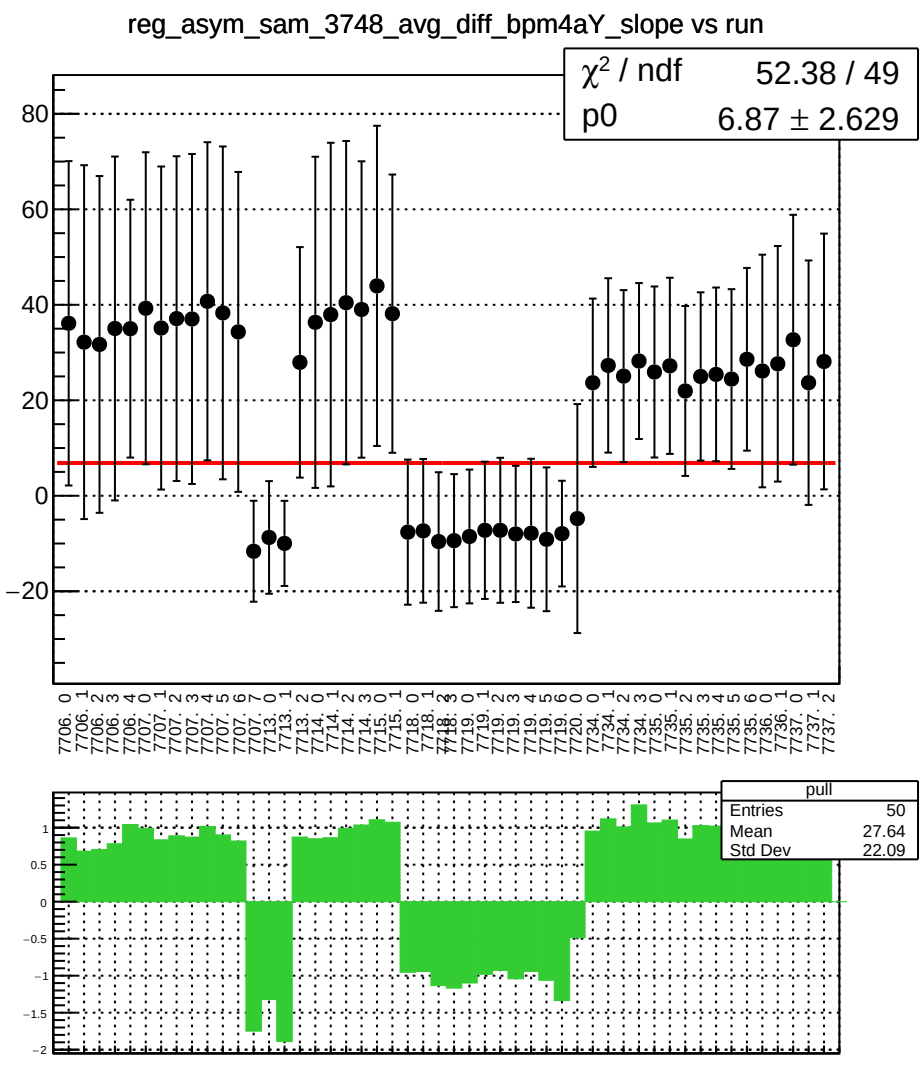

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.98 / 49
p0 −54.06 ± 1.365
pull
Entries 50
Mean 16.71
Std Dev 20.63
pull1D
Entries 50
Mean 0.3952
Std Dev 1.079

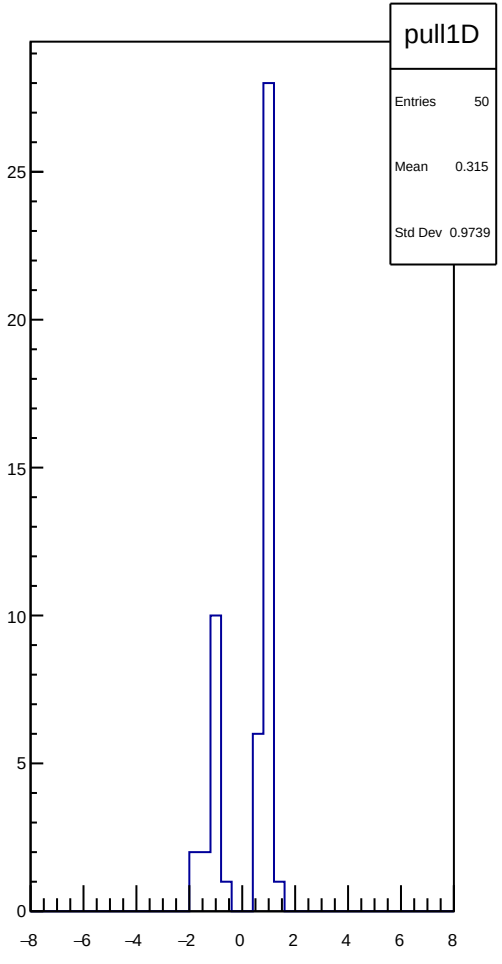

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 185 / 49
p0 62.13 ± 2.582
pull
Entries 50
Mean 42.08
Std Dev 17.04

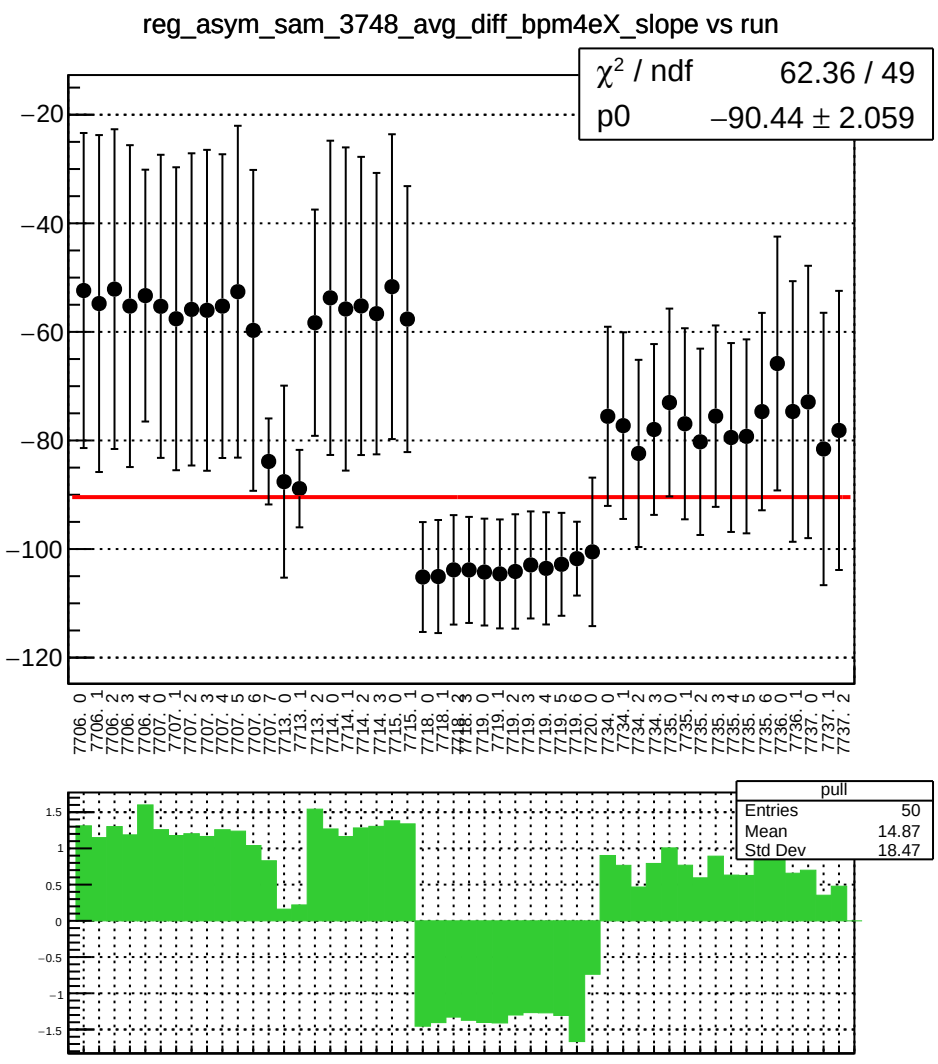

pull1D
Entries 50
Mean −0.4701
Std Dev 1.865

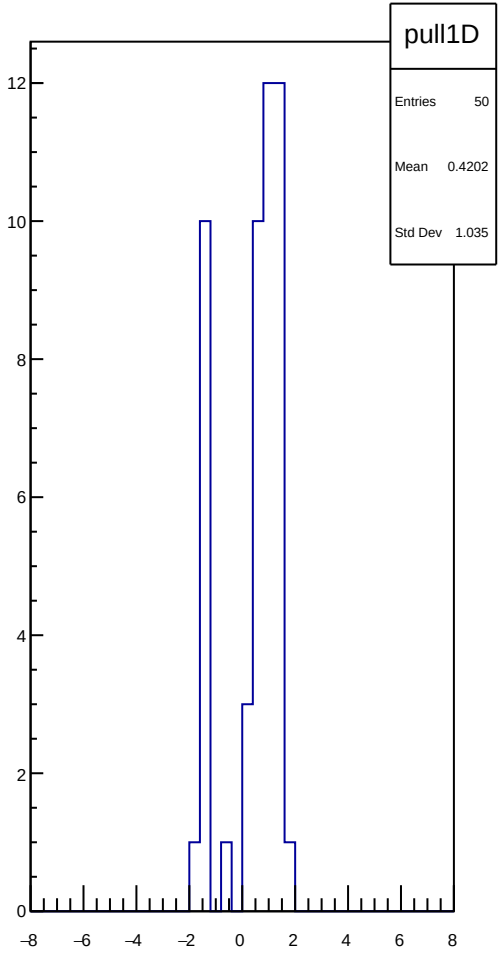

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 22.43 / 49
p0 −0.3641± 0.09988
pull
Entries 50
Mean 1.476
Std Dev 38.67
pull1D
Entries 50
Mean 0.06898
Std Dev 0.6662

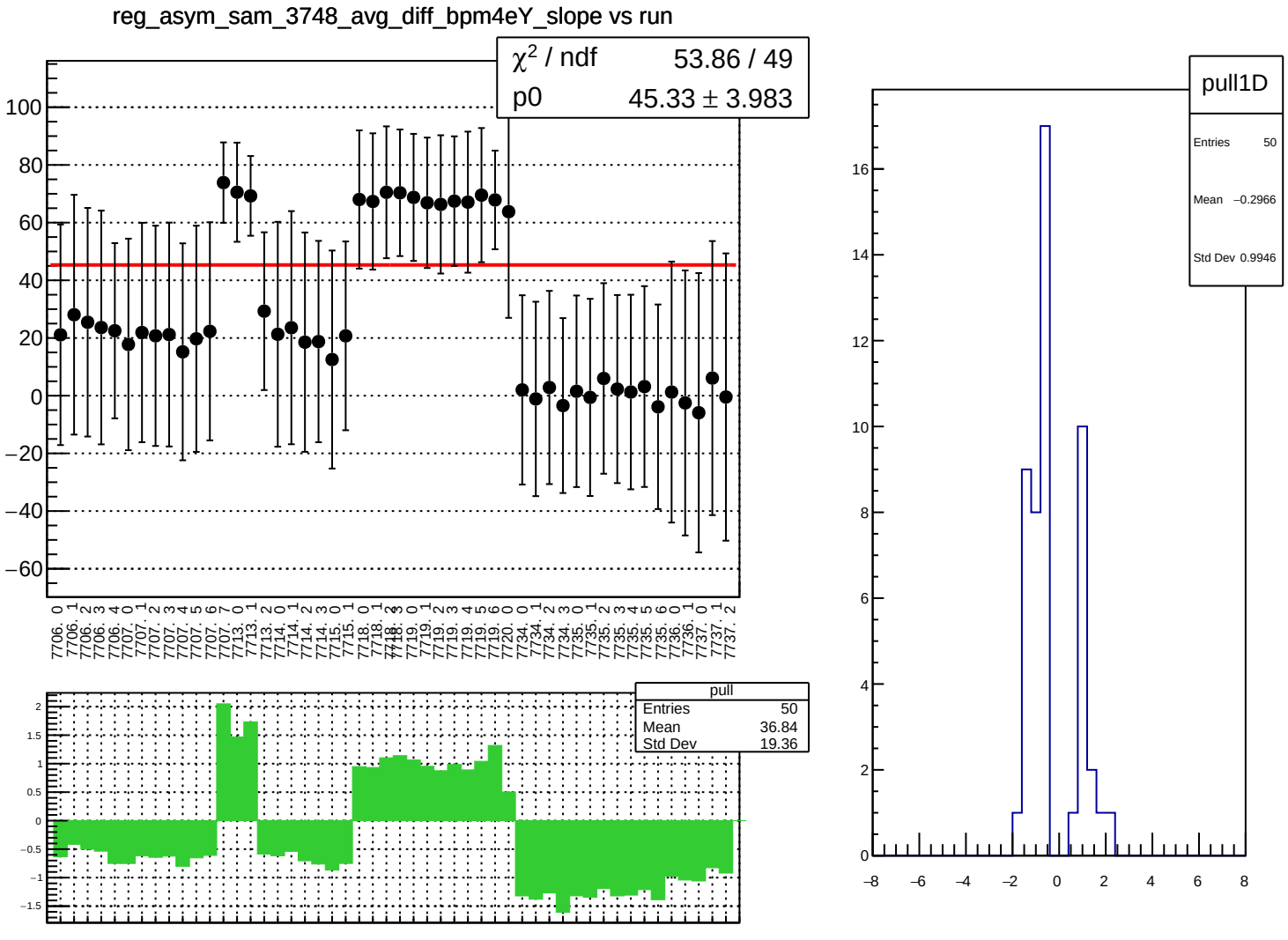

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 78.97 / 49
p0 −2.562 ± 2.381
pull
Entries 50
Mean 21.92
Std Dev 23.05
pull1D
Entries 50
Mean −0.3776
Std Dev 1.199

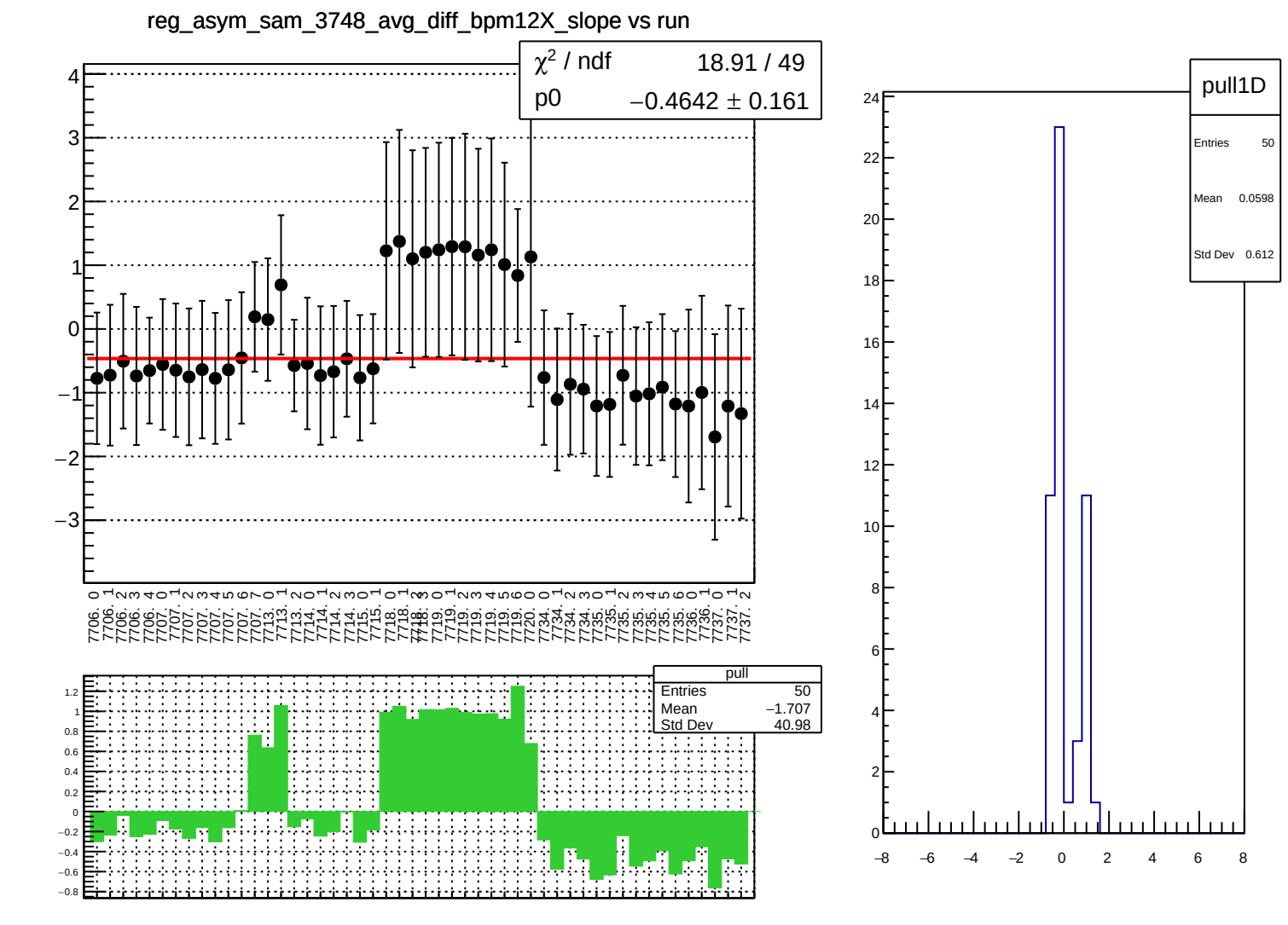

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.38 / 49
p0 6.87 ± 2.629
pull
Entries 50
Mean 27.64
Std Dev 22.09

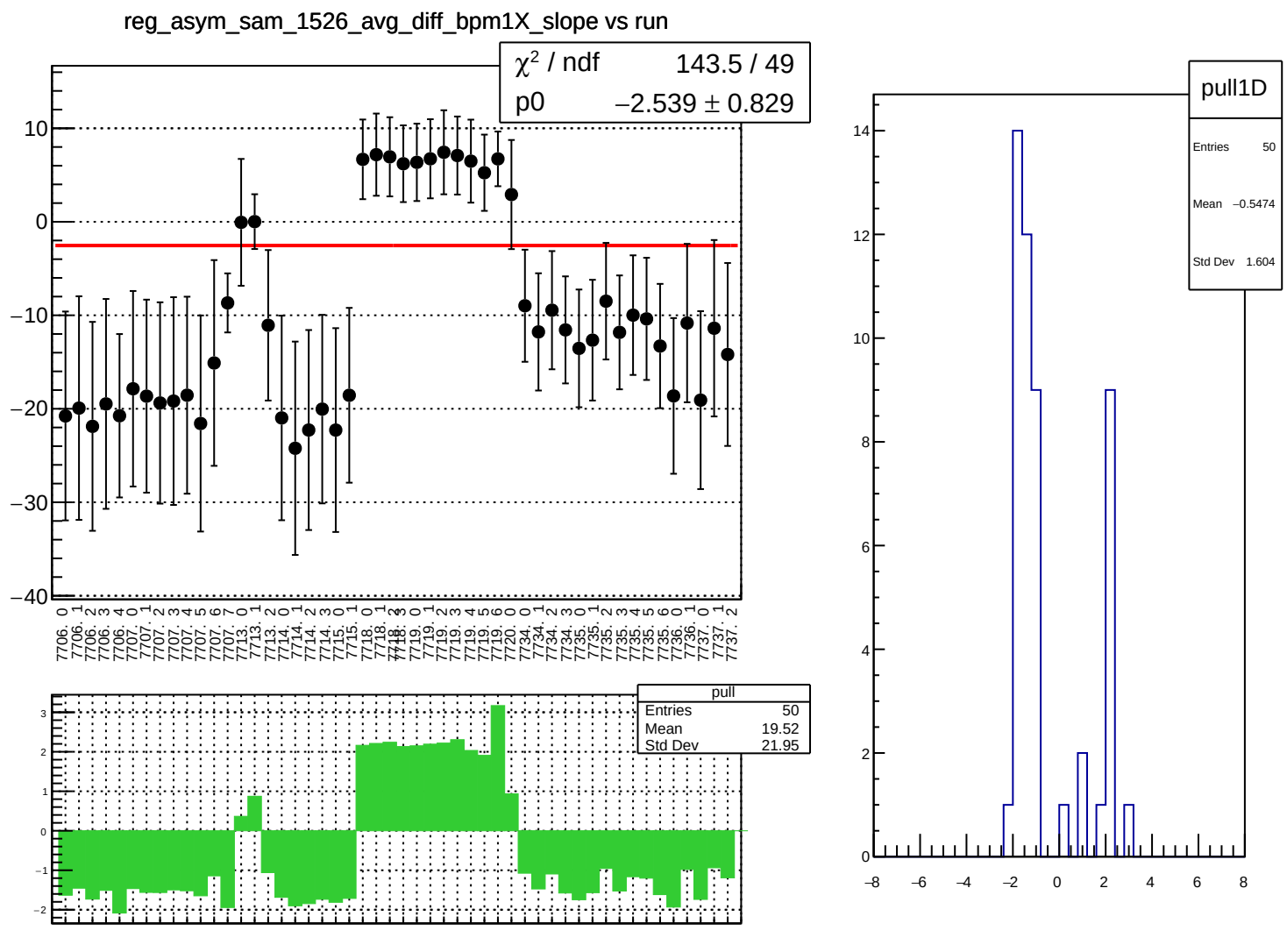

pull1D
Entries 50
Mean 0.315
Std Dev 0.9739

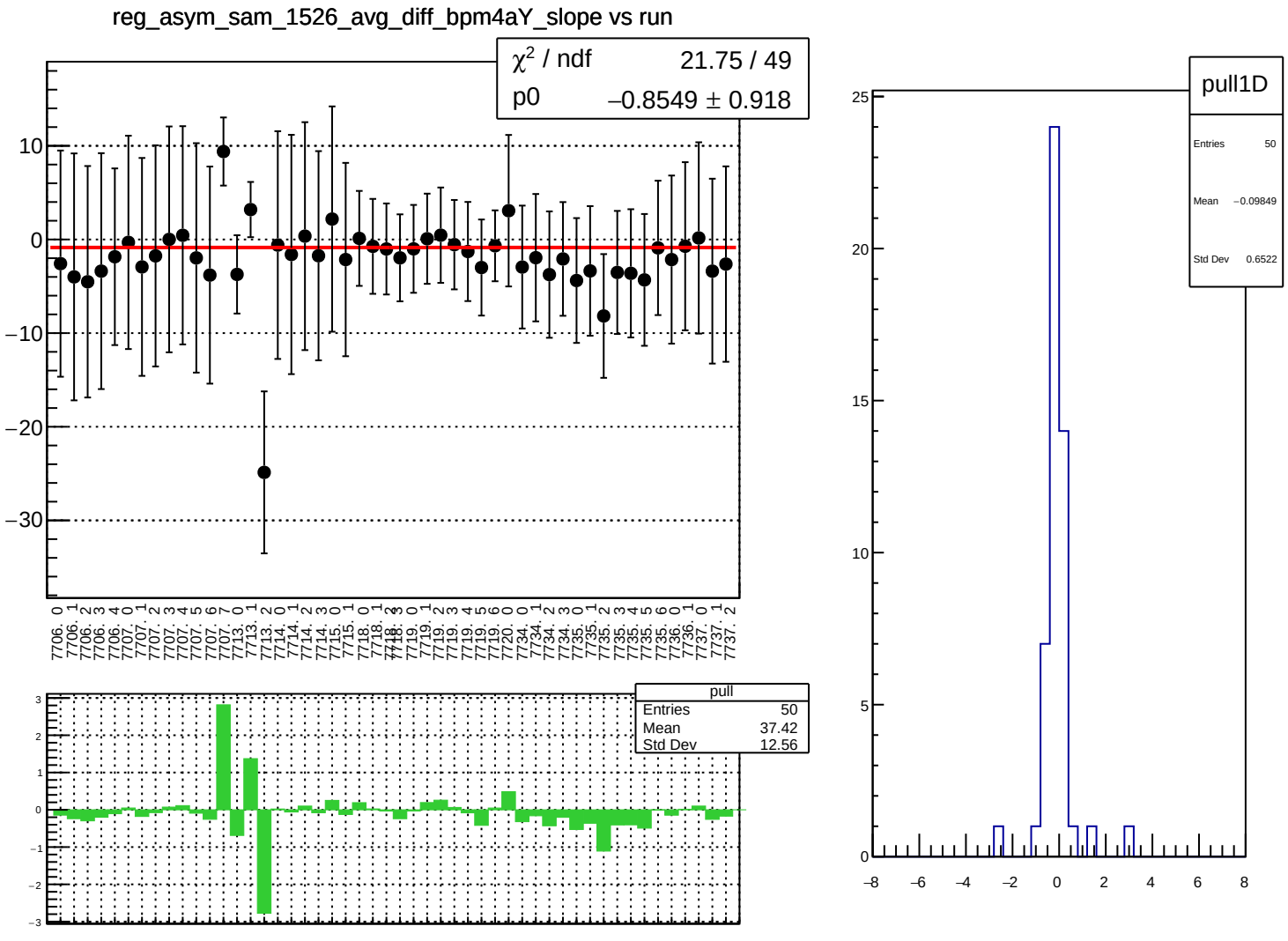

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 62.36 / 49
p0 −90.44 ± 2.059
pull
Entries 50
Mean 14.87
Std Dev 18.47

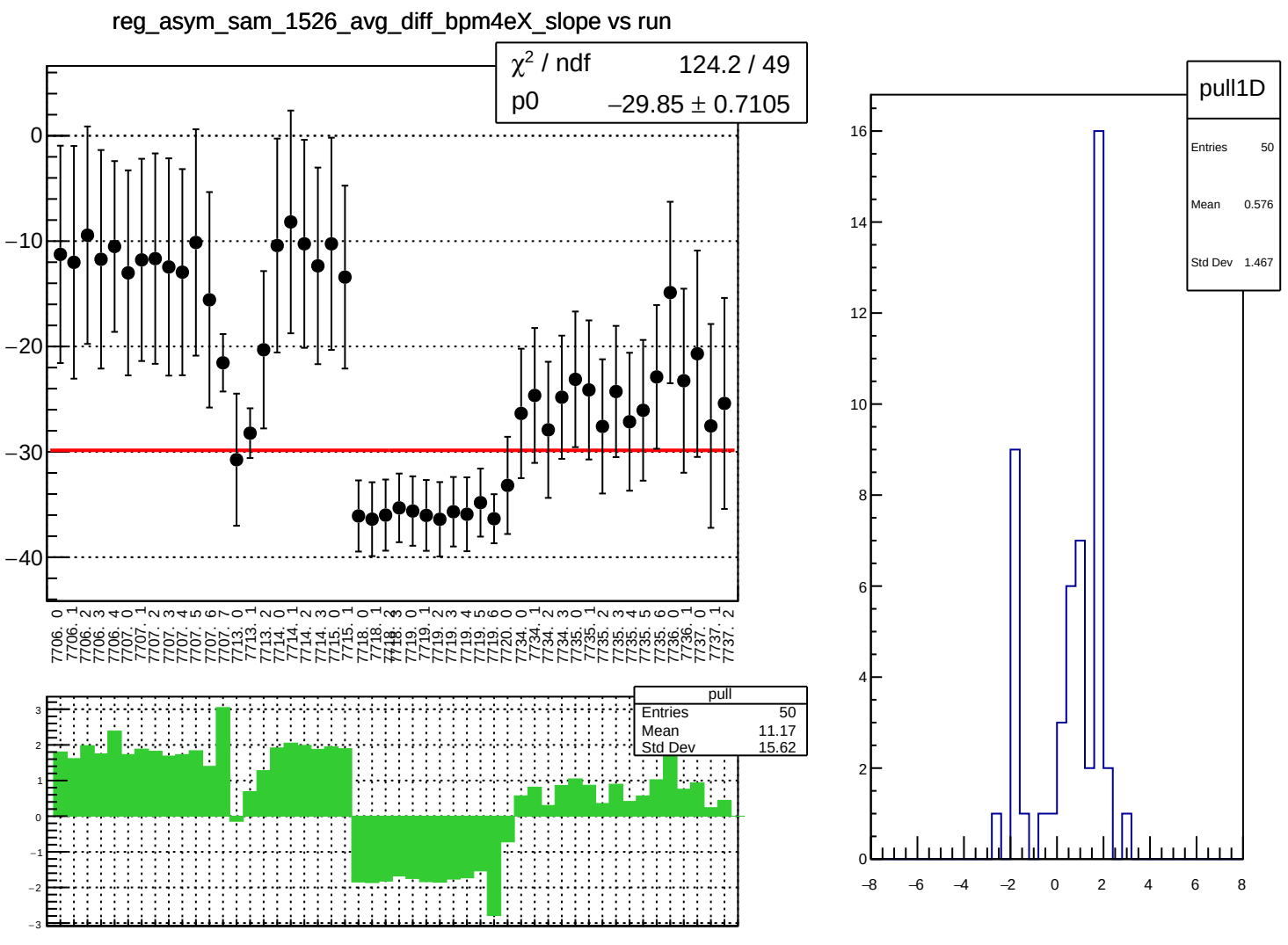

pull1D
Entries 50
Mean 0.4202
Std Dev 1.035

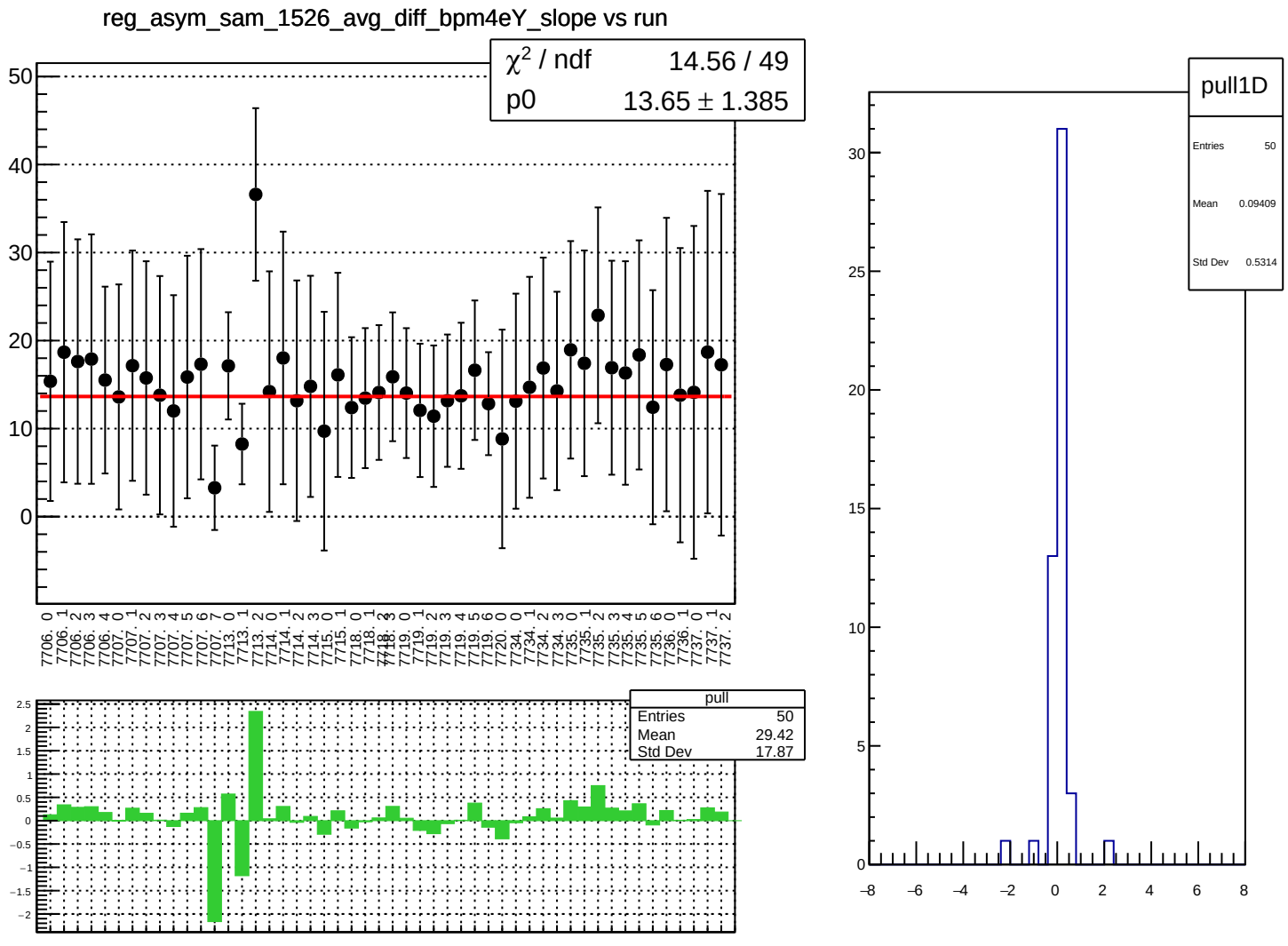

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.86 / 49
p0 45.33 ± 3.983
pull
Entries 50
Mean 36.84
Std Dev 19.36
pull1D
Entries 50
Mean −0.2966
Std Dev 0.9946

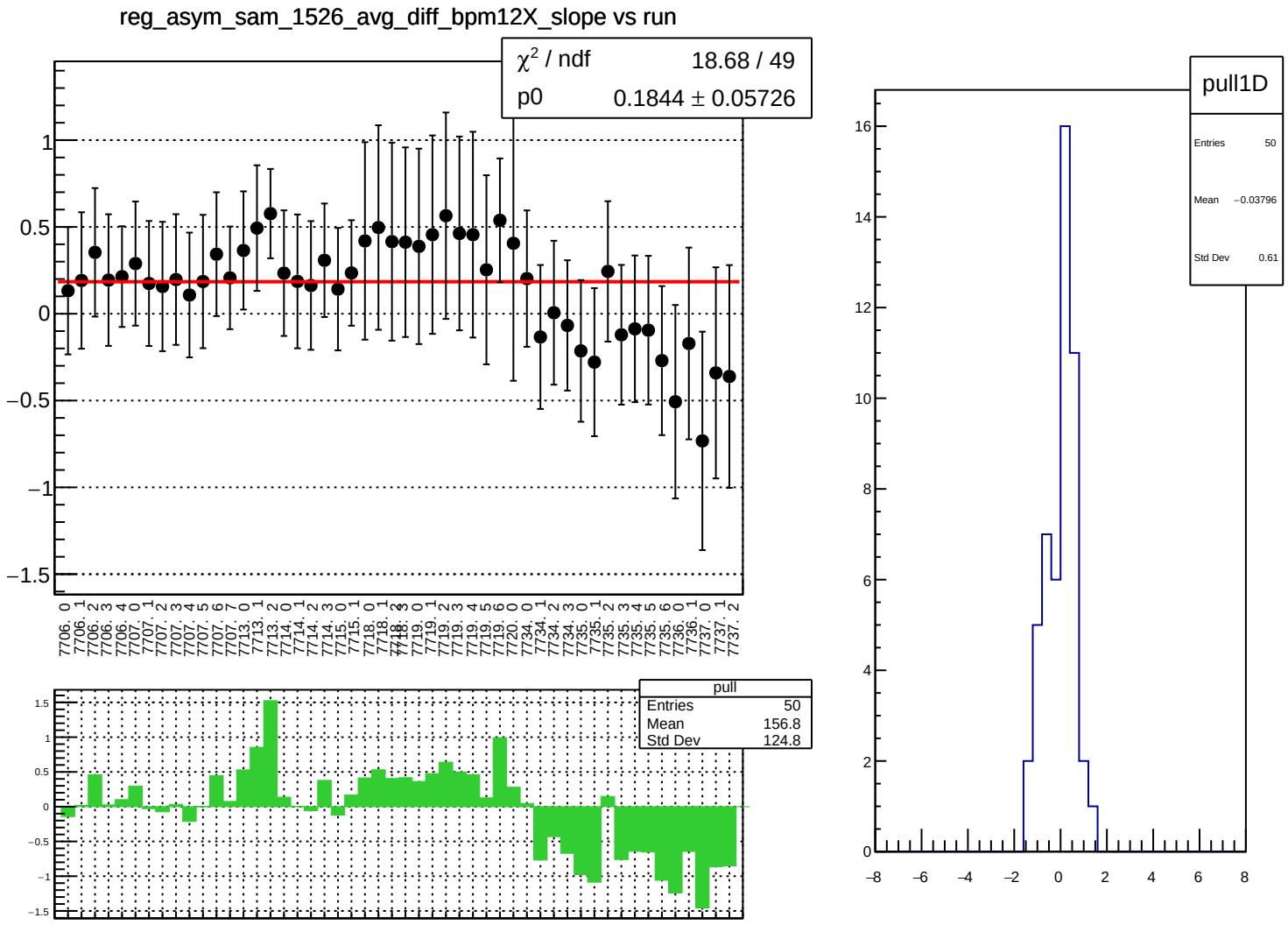

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 18.91 / 49
p0 −0.4642 ± 0.161
pull
Entries 50
Mean −1.707
Std Dev 40.98
pull1D
Entries 50
Mean 0.0598
Std Dev 0.612

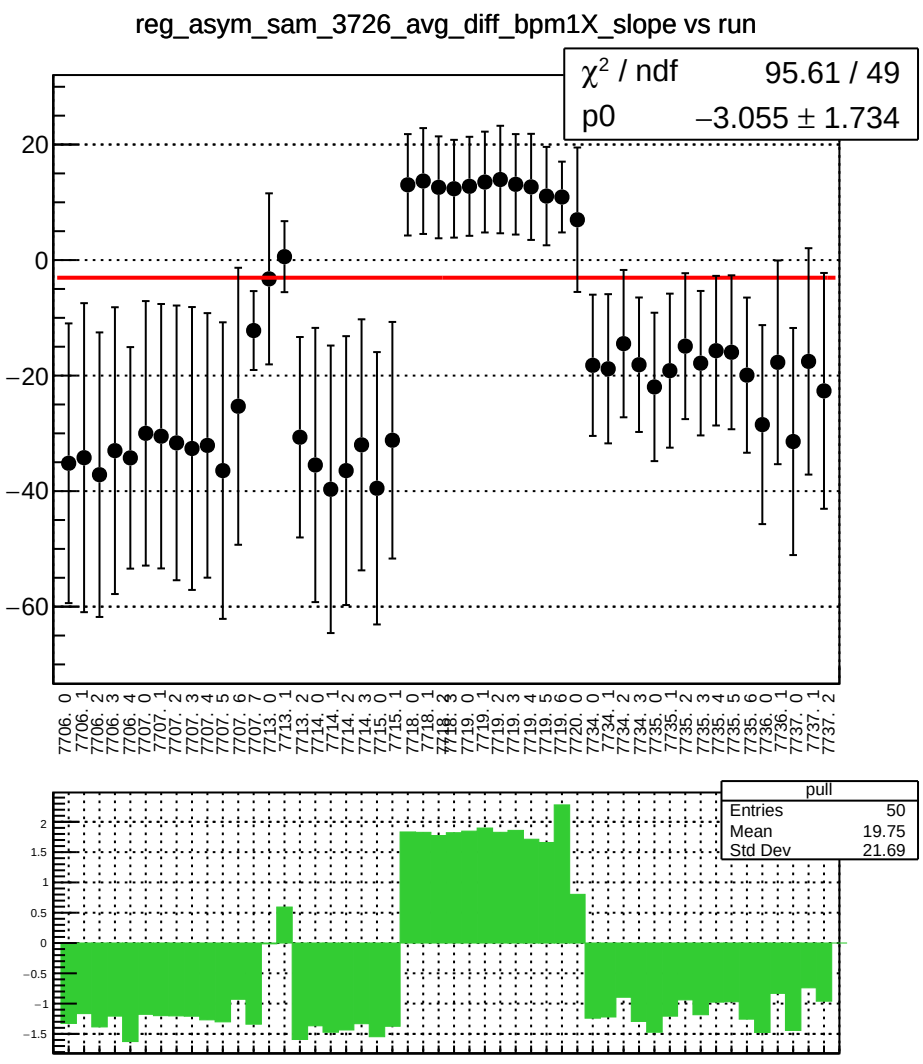

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 143.5 / 49
p0 −2.539 ± 0.829
pull
Entries 50
Mean 19.52
Std Dev 21.95
pull1D
Entries 50
Mean −0.5474
Std Dev 1.604

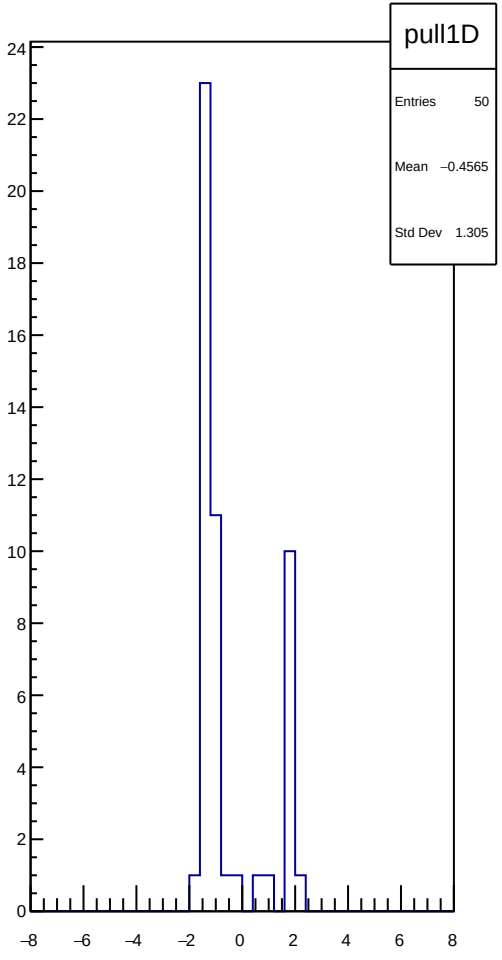

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.75 / 49
p0 −0.8549 ± 0.918
pull
Entries 50
Mean 37.42
Std Dev 12.56
pull1D
Entries 50
Mean −0.09849
Std Dev 0.6522

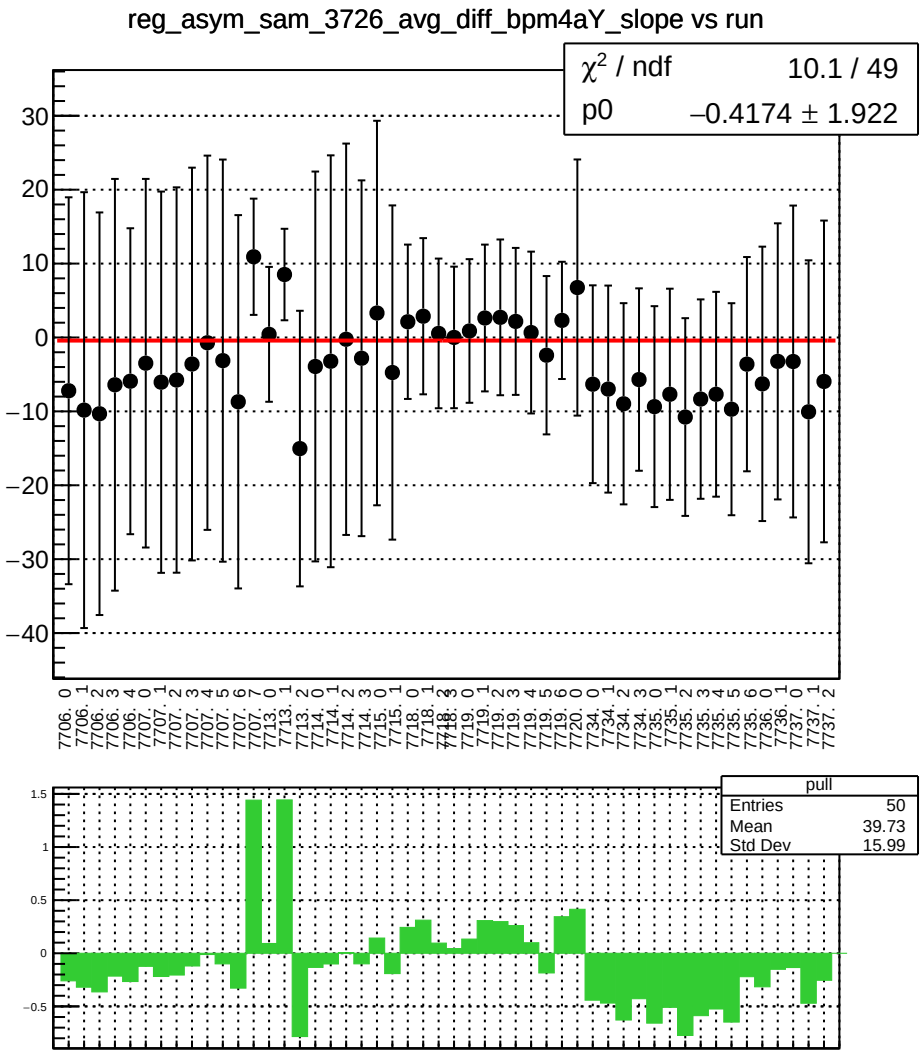

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.2 / 49
p0 −29.85 ± 0.7105
pull
Entries 50
Mean 11.17
Std Dev 15.62
pull1D
Entries 50
Mean 0.576
Std Dev 1.467

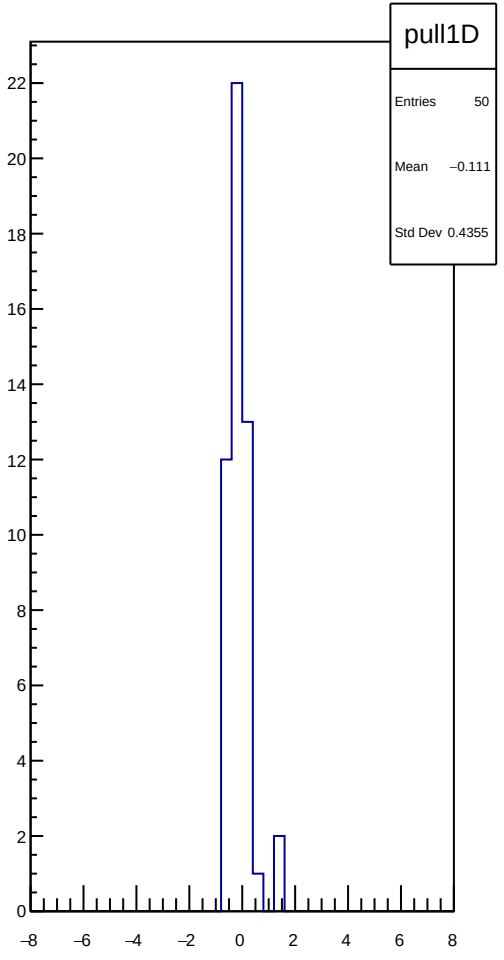

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.56 / 49
p0 13.65 ± 1.385
pull
Entries 50
Mean 29.42
Std Dev 17.87
pull1D
Entries 50
Mean 0.09409
Std Dev 0.5314

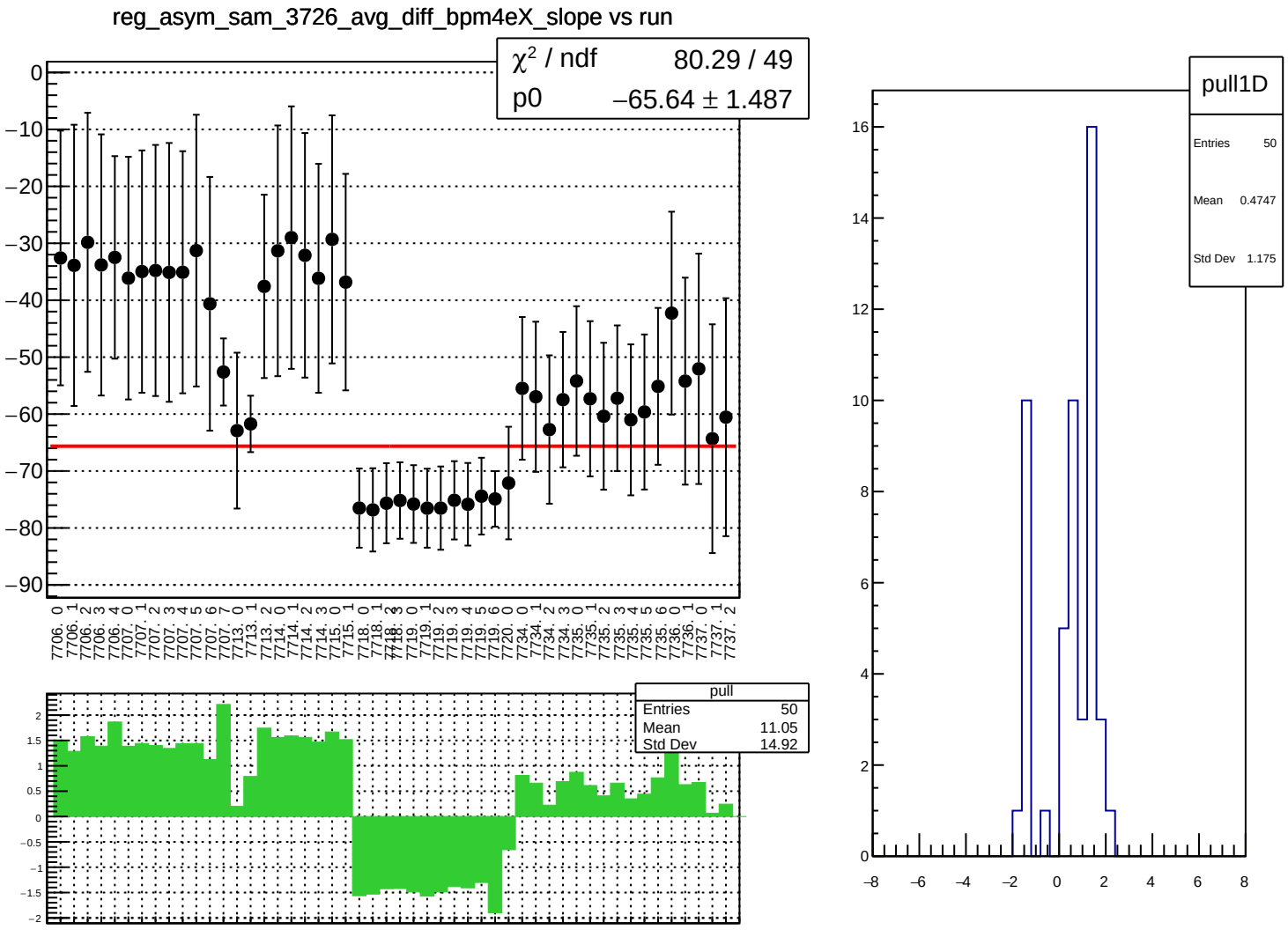

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 18.68 / 49
p0 0.1844 ± 0.05726
pull
Entries 50
Mean 156.8
Std Dev 124.8
pull1D
Entries 50
Mean −0.03796
Std Dev 0.61

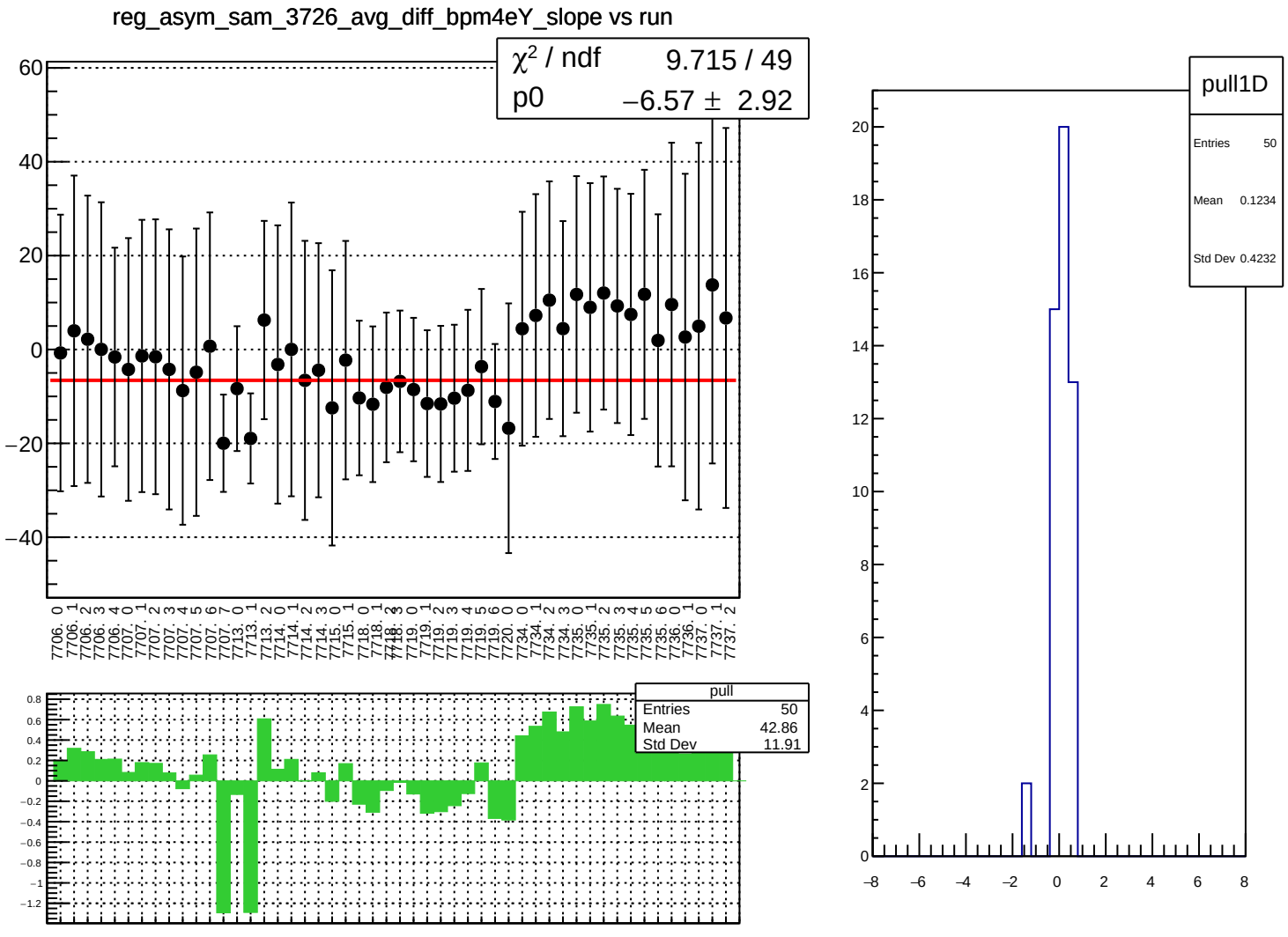

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 95.61 / 49
p0 −3.055 ± 1.734
pull
Entries 50
Mean 19.75
Std Dev 21.69

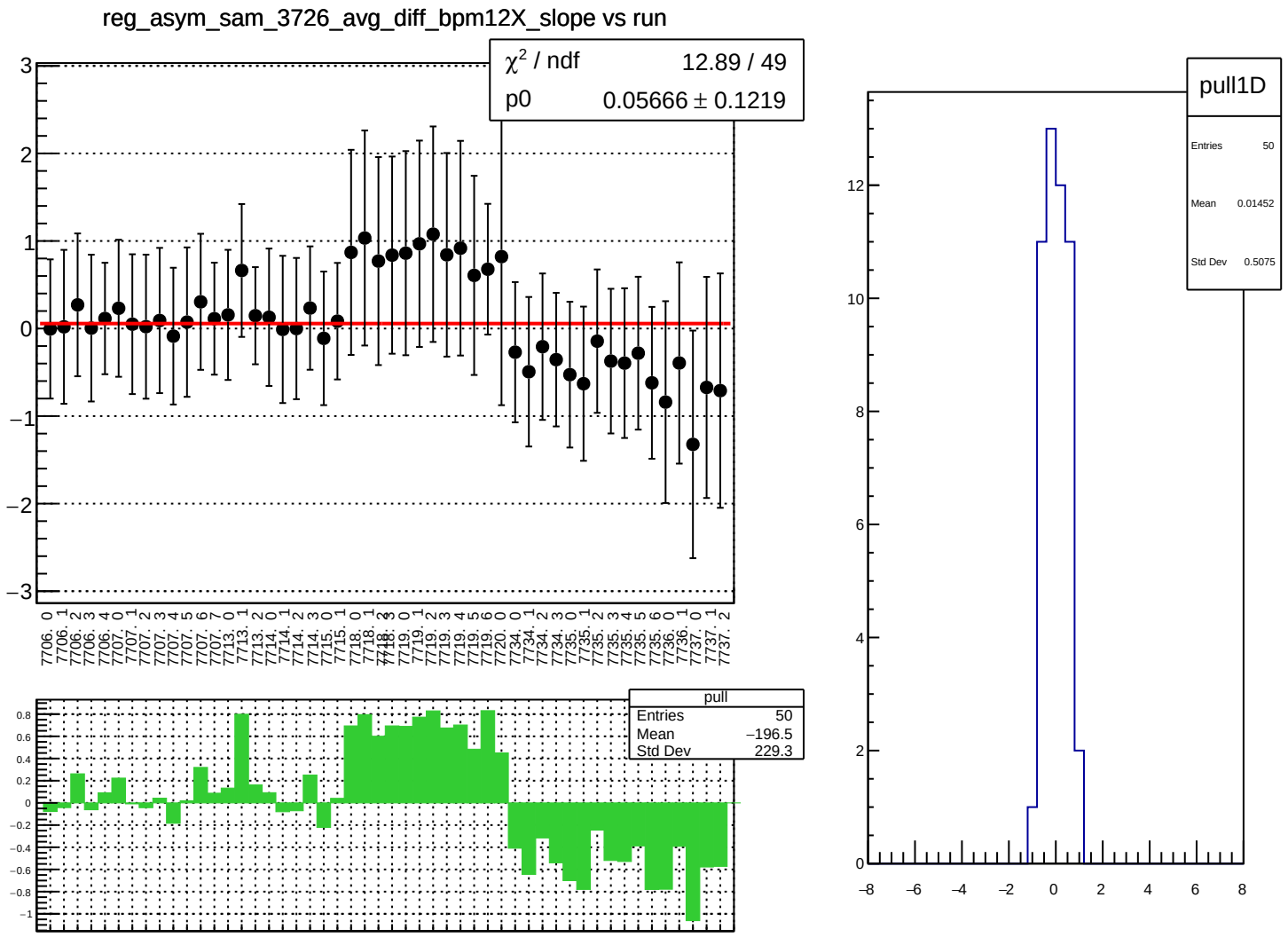

pull1D
Entries 50
Mean −0.4565
Std Dev 1.305

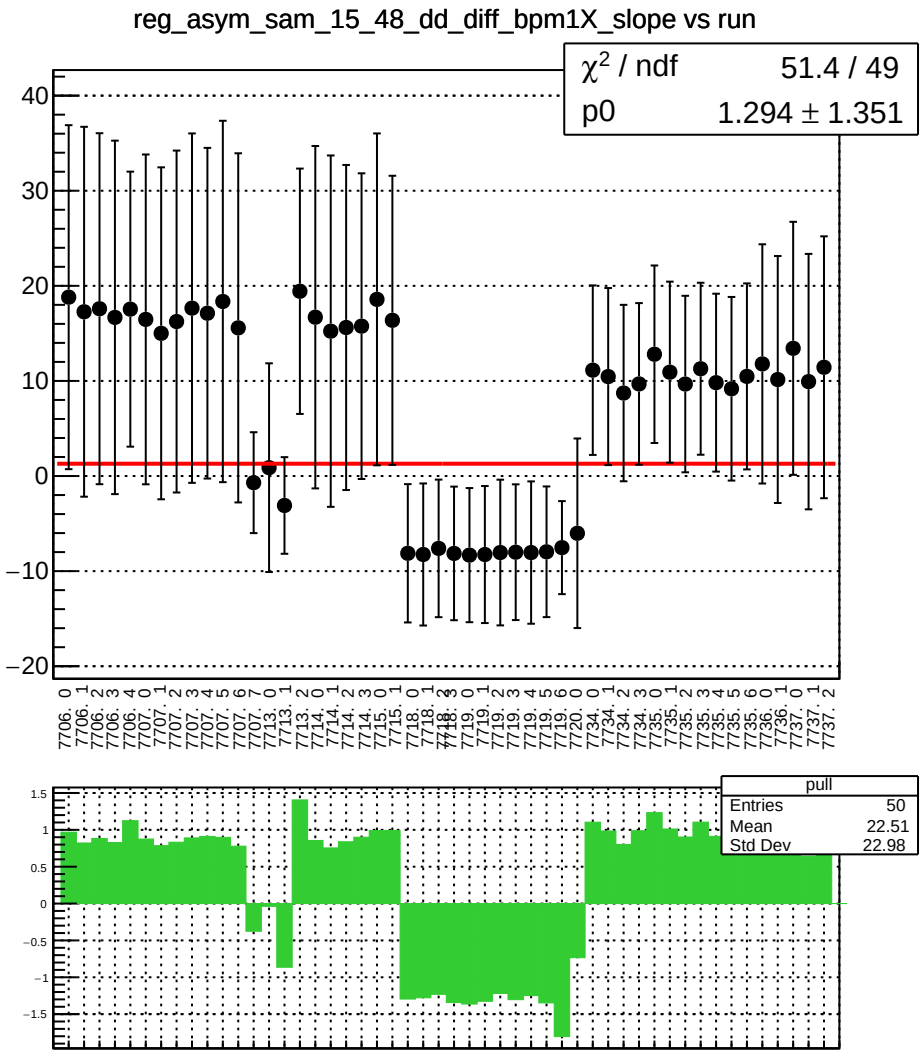

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.1 / 49
p0 −0.4174 ± 1.922
pull
Entries 50
Mean 39.73
Std Dev 15.99

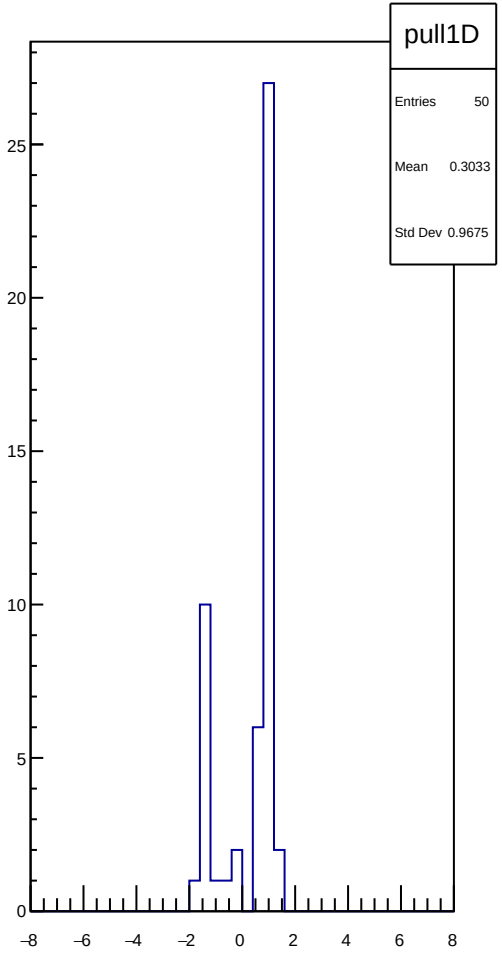

pull1D
Entries 50
Mean −0.111
Std Dev 0.4355

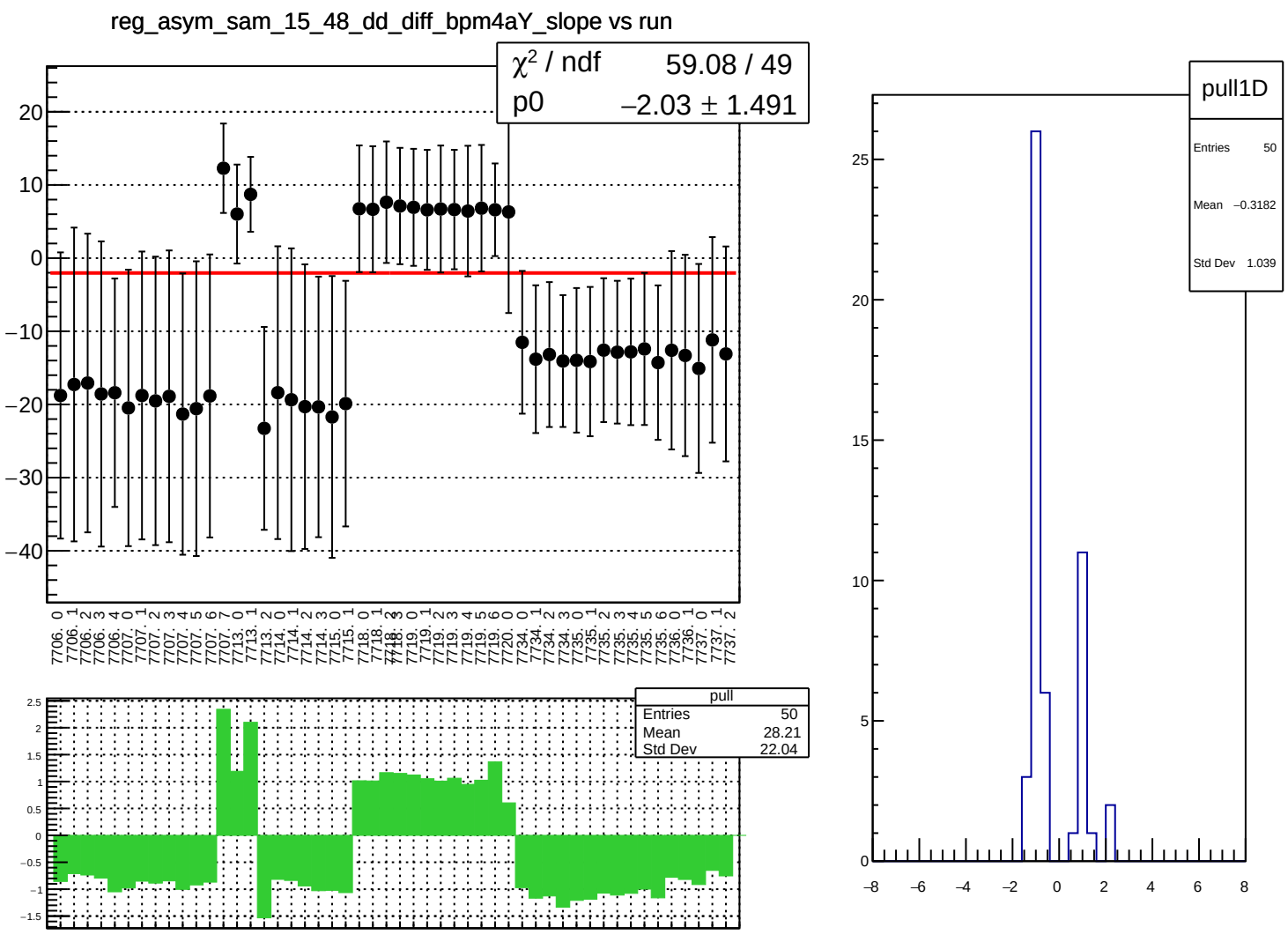

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 80.29 / 49
p0 −65.64 ± 1.487
pull
Entries 50
Mean 11.05
Std Dev 14.92
pull1D
Entries 50
Mean 0.4747
Std Dev 1.175

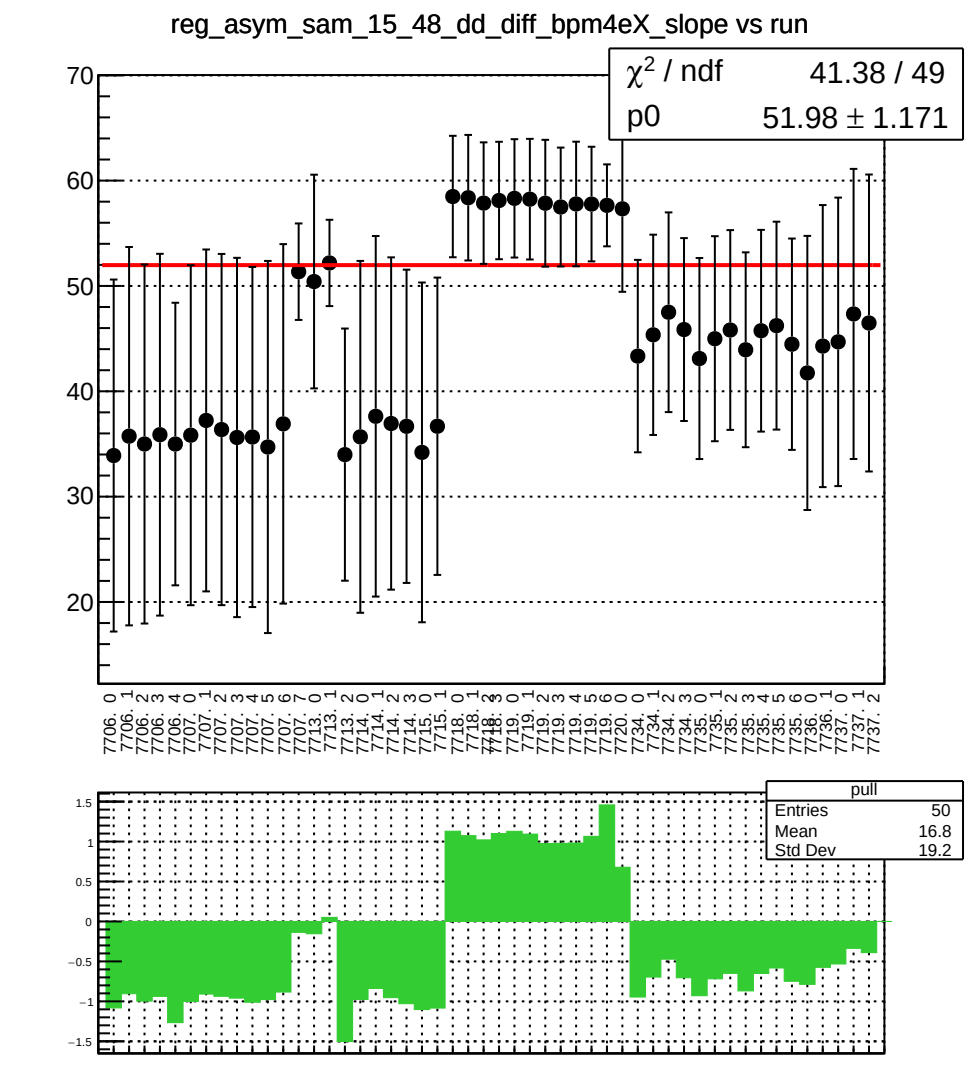

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.715 / 49
p0 −6.57 ± 2.92
pull
Entries 50
Mean 42.86
Std Dev 11.91
pull1D
Entries 50
Mean 0.1234
Std Dev 0.4232

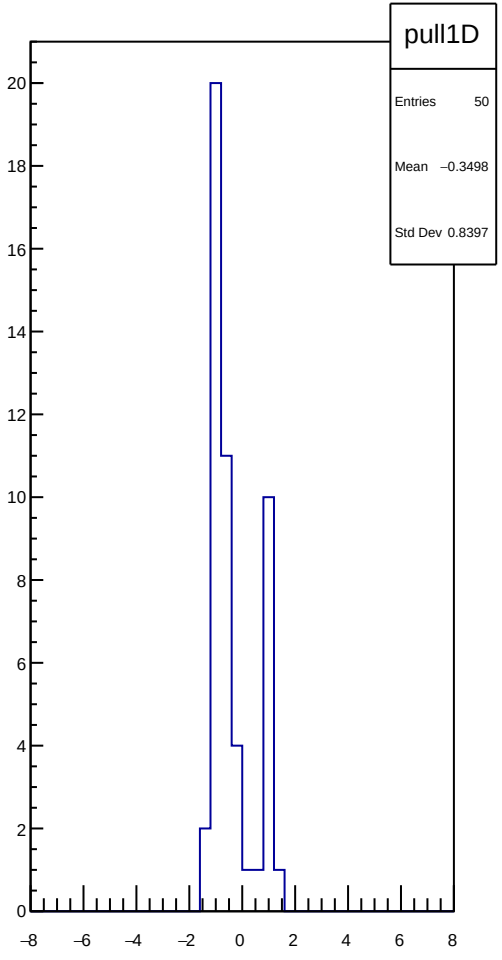

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 12.89 / 49
p0 0.05666 ± 0.1219
pull
Entries 50
Mean −196.5
Std Dev 229.3
pull1D
Entries 50
Mean 0.01452
Std Dev 0.5075

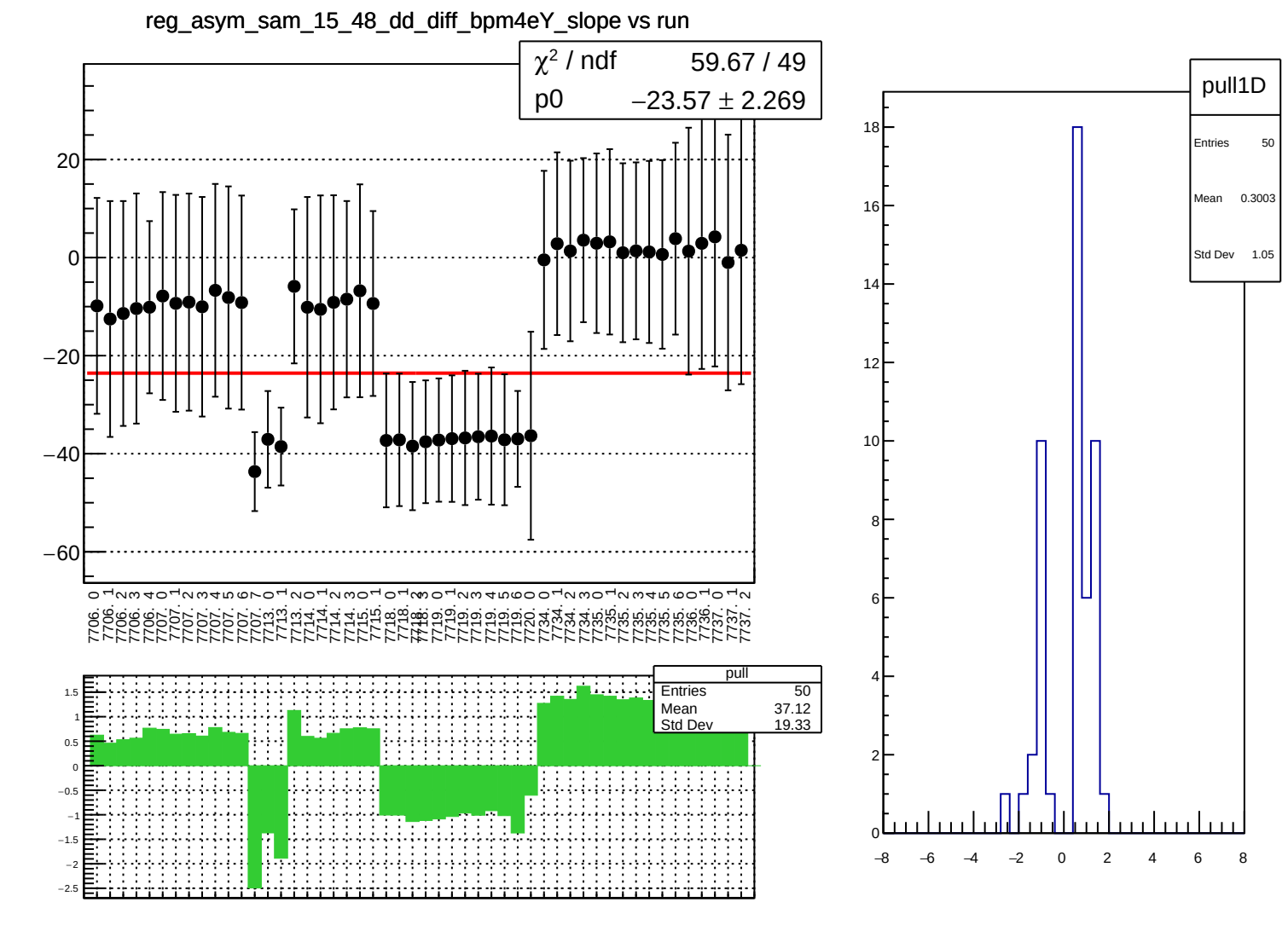

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 51.4 / 49
p0 1.294 ± 1.351
pull
Entries 50
Mean 22.51
Std Dev 22.98

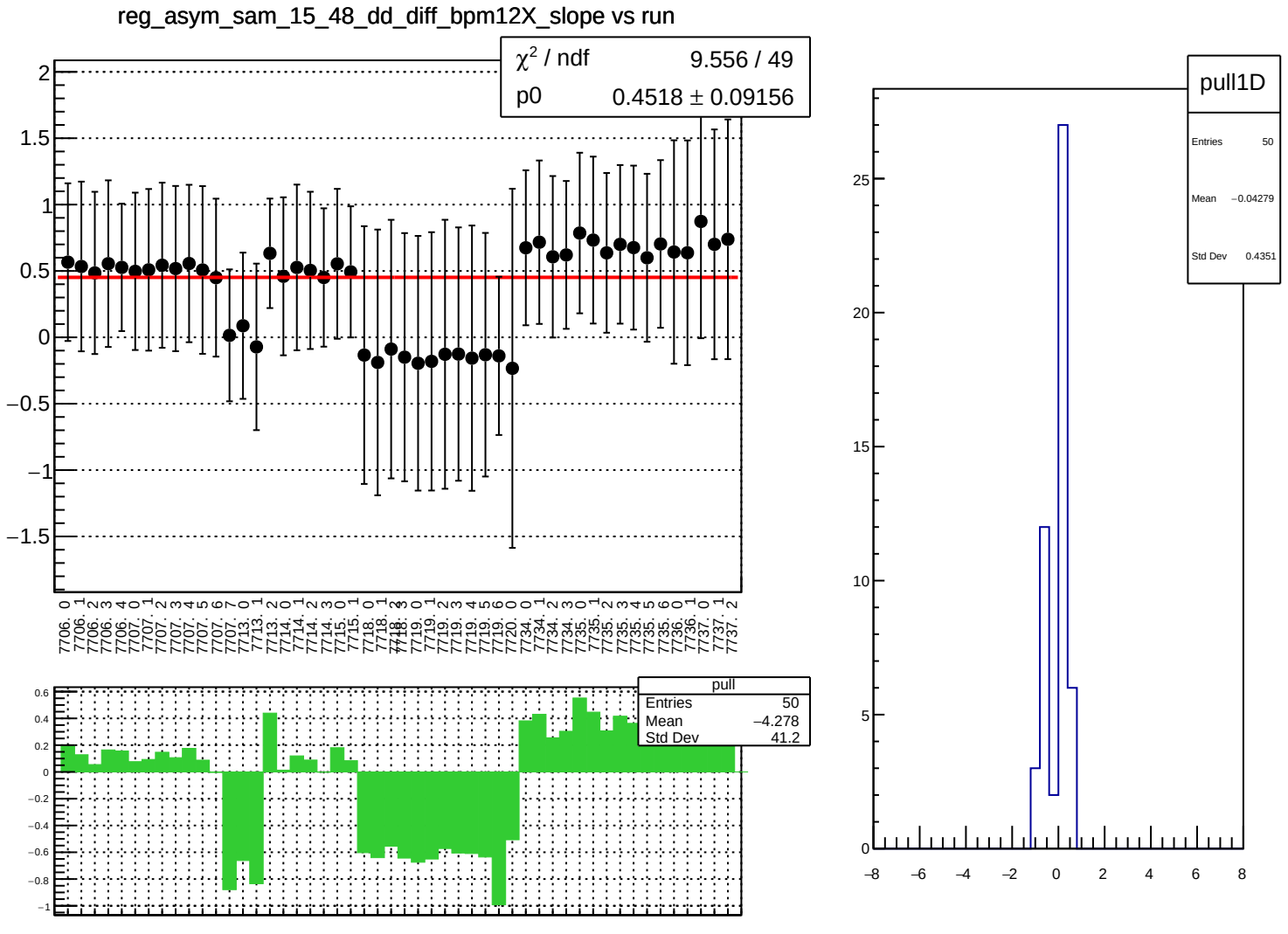

pull1D
Entries 50
Mean 0.3033
Std Dev 0.9675

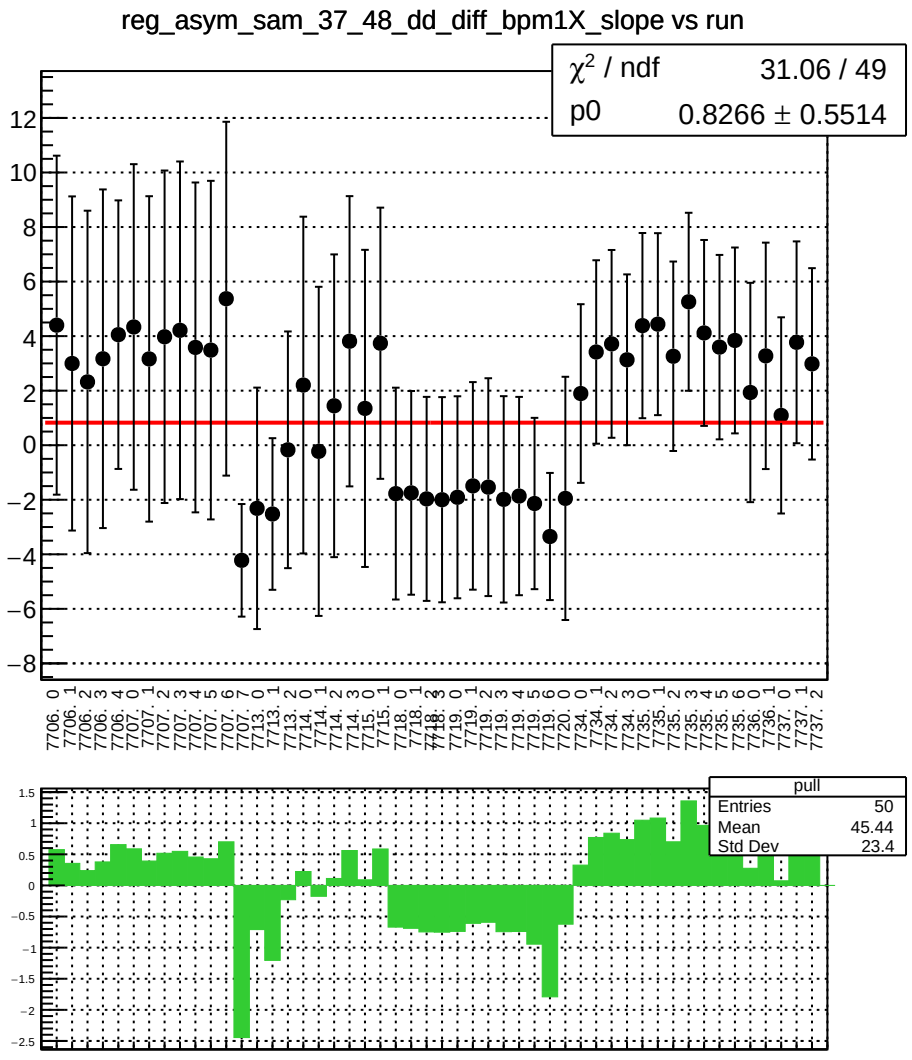

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.08 / 49
p0 −2.03 ± 1.491
pull
Entries 50
Mean 28.21
Std Dev 22.04
pull1D
Entries 50
Mean −0.3182
Std Dev 1.039

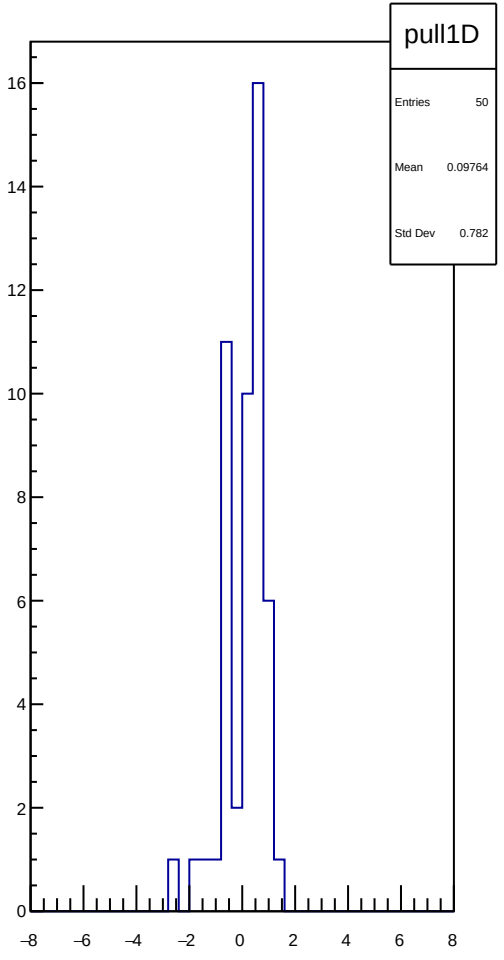

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 41.38 / 49
p0 51.98 ± 1.171
pull
Entries 50
Mean 16.8
Std Dev 19.2

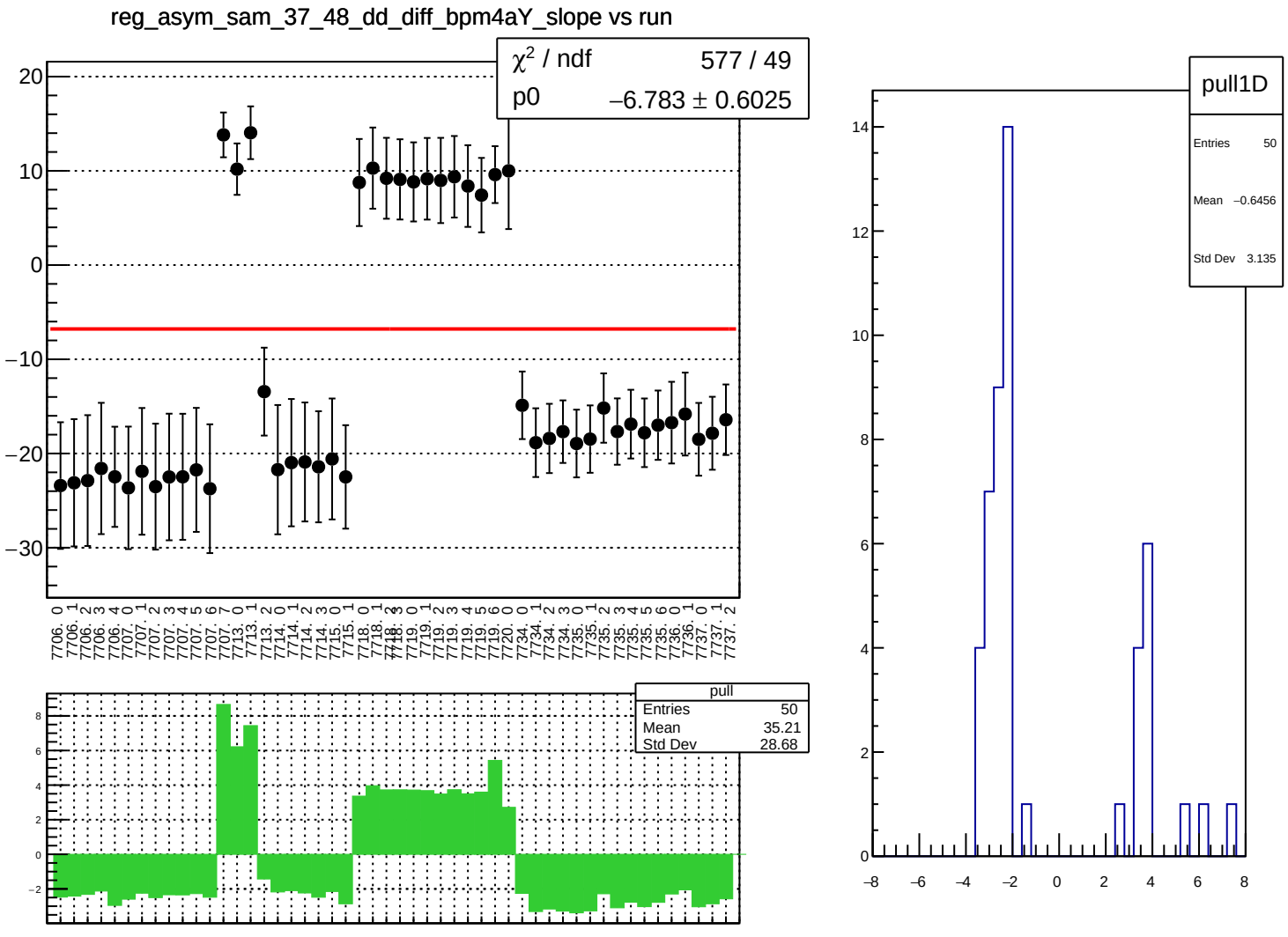

pull1D
Entries 50
Mean −0.3498
Std Dev 0.8397

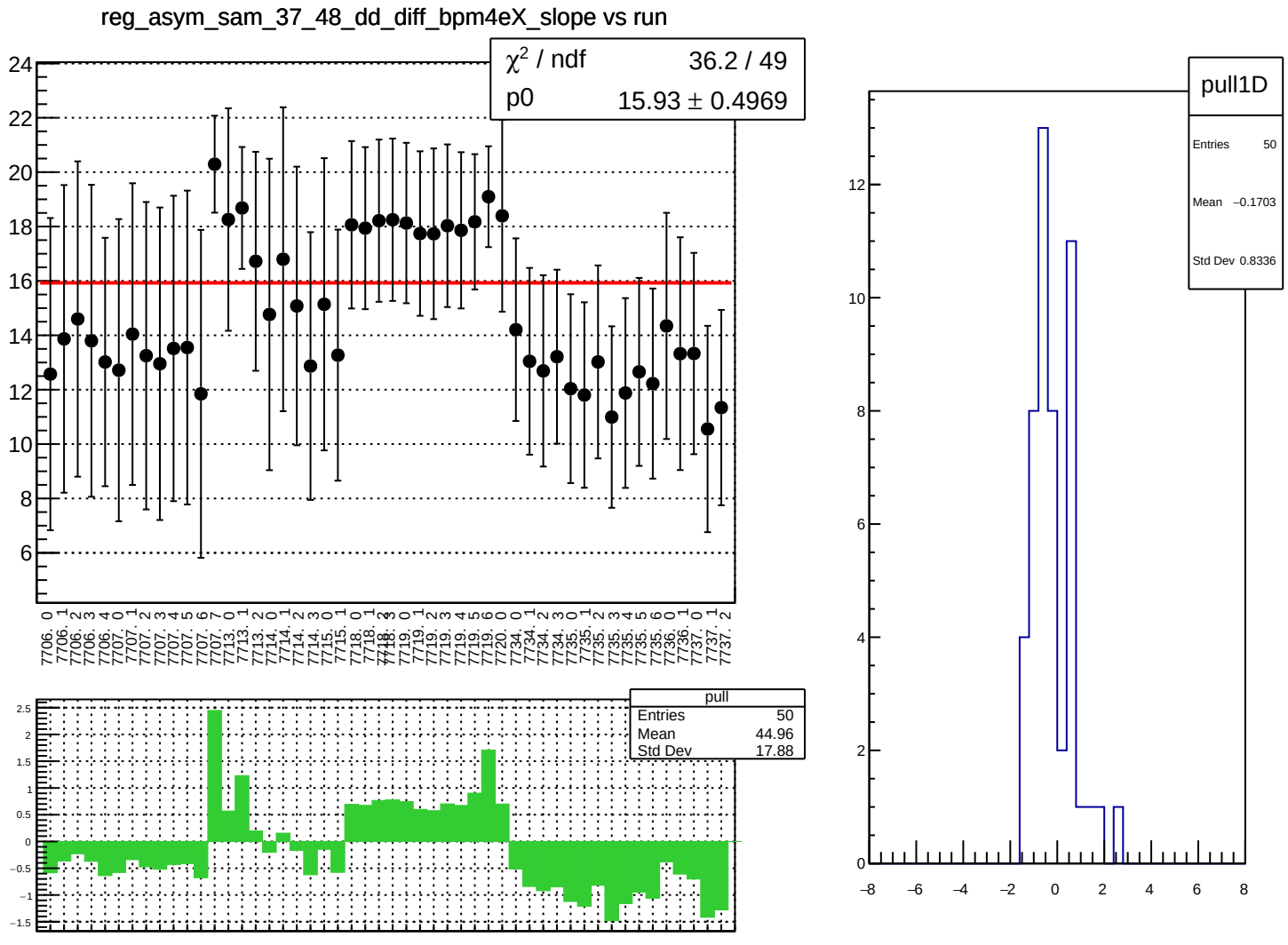

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.67 / 49
p0 −23.57 ± 2.269
pull
Entries 50
Mean 37.12
Std Dev 19.33
pull1D
Entries 50
Mean 0.3003
Std Dev 1.05

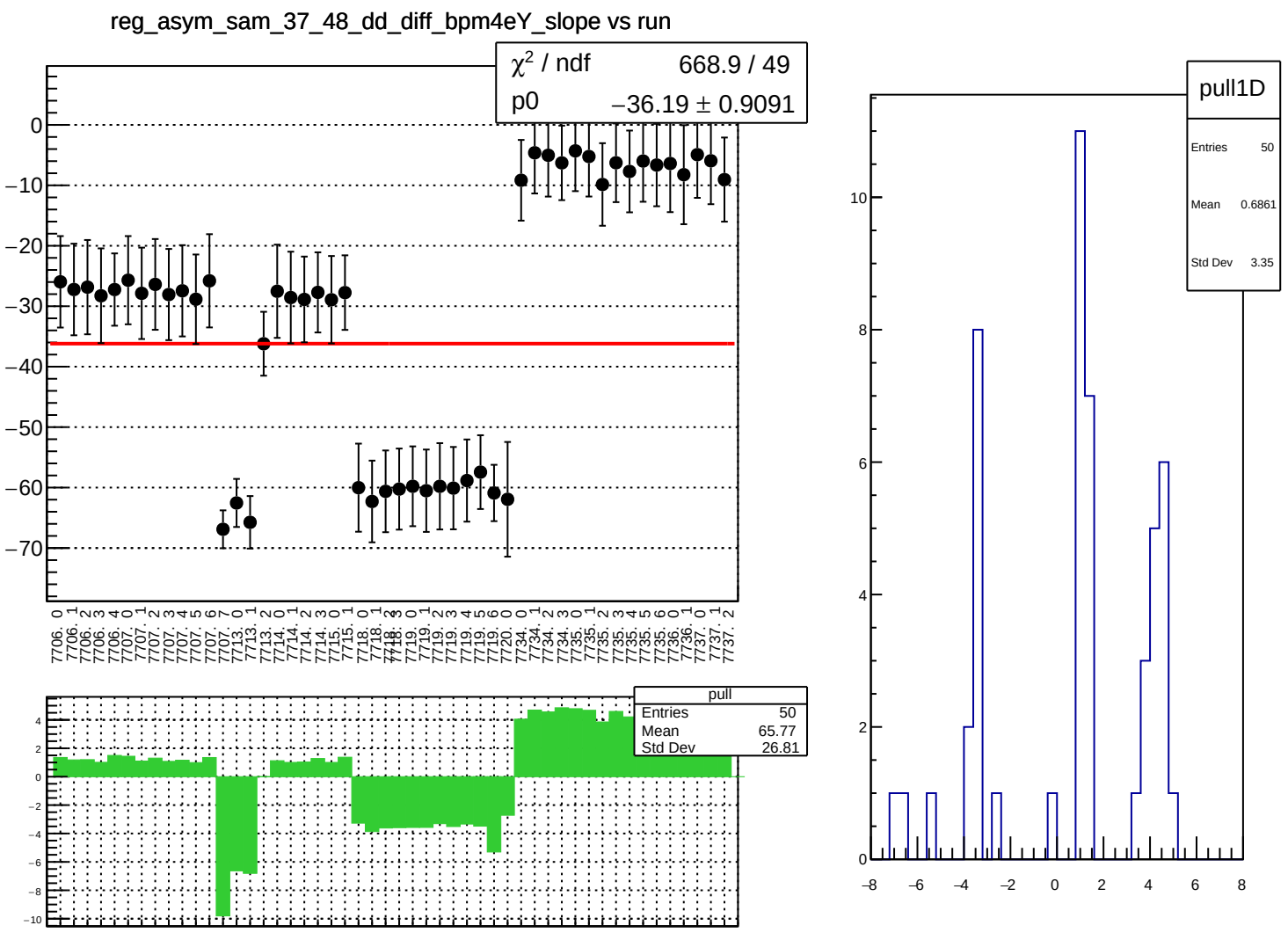

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.556 / 49
p0 0.4518 ± 0.09156
pull
Entries 50
Mean −4.278
Std Dev 41.2
pull1D
Entries 50
Mean −0.04279
Std Dev 0.4351

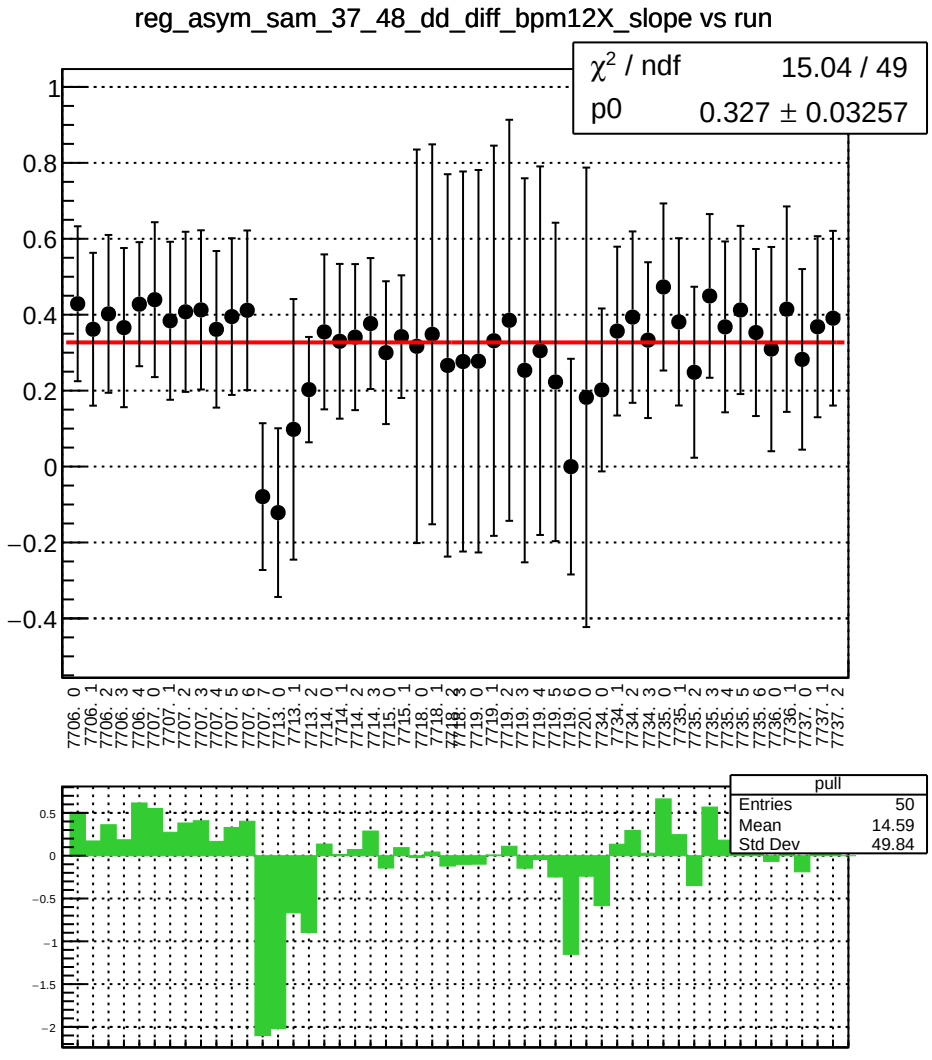

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 31.06 / 49
p0 0.8266 ± 0.5514
pull
Entries 50
Mean 45.44
Std Dev 23.4

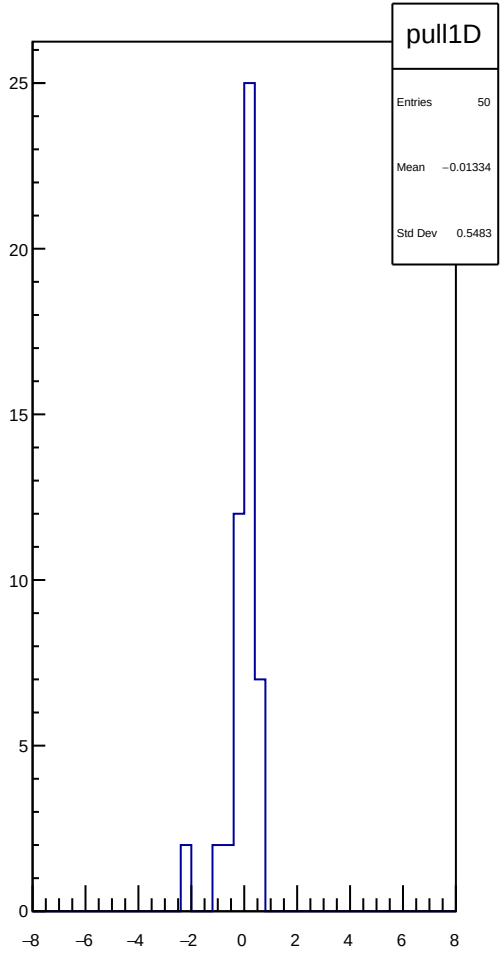

pull1D
Entries 50
Mean 0.09764
Std Dev 0.782

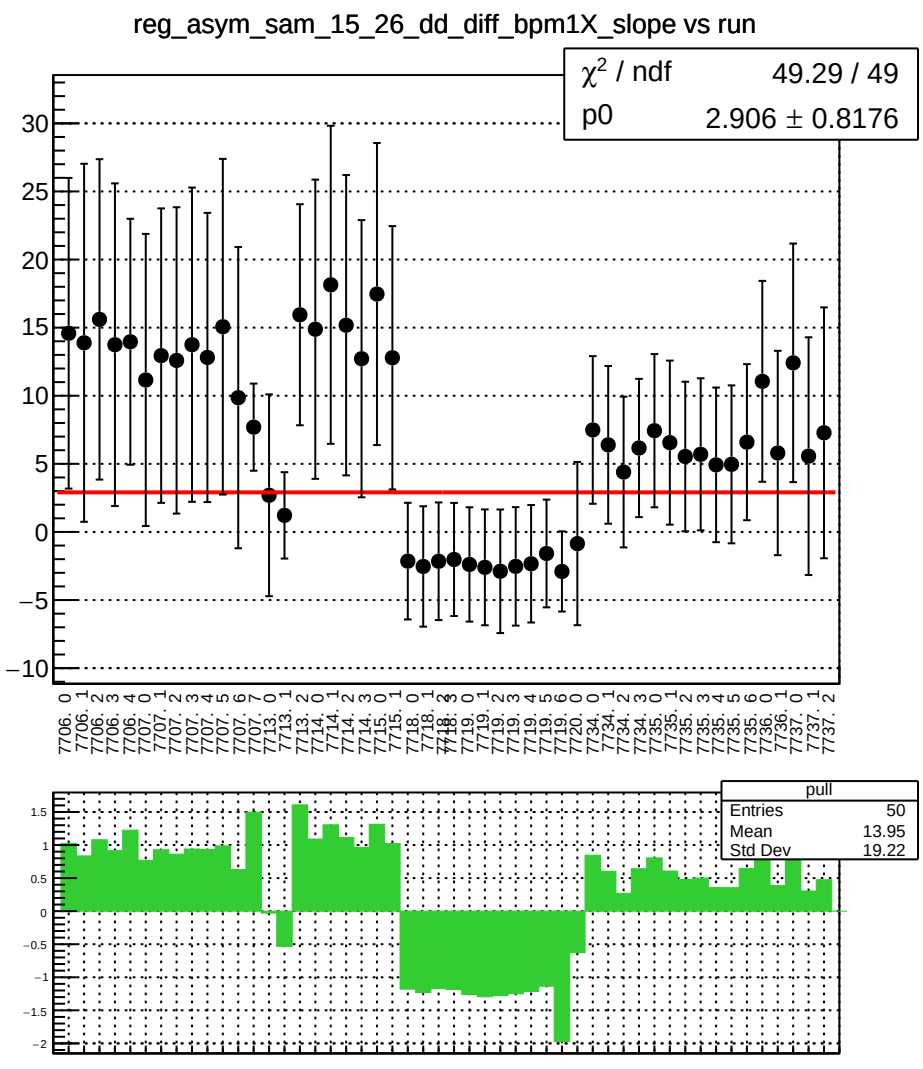

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 577 / 49
p0 −6.783 ± 0.6025
20
10
0
−10
−20
−30
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 35.21
Std Dev 28.68
8
6
4
2
0
−2
pull1D
Entries 50
Mean −0.6456
Std Dev 3.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

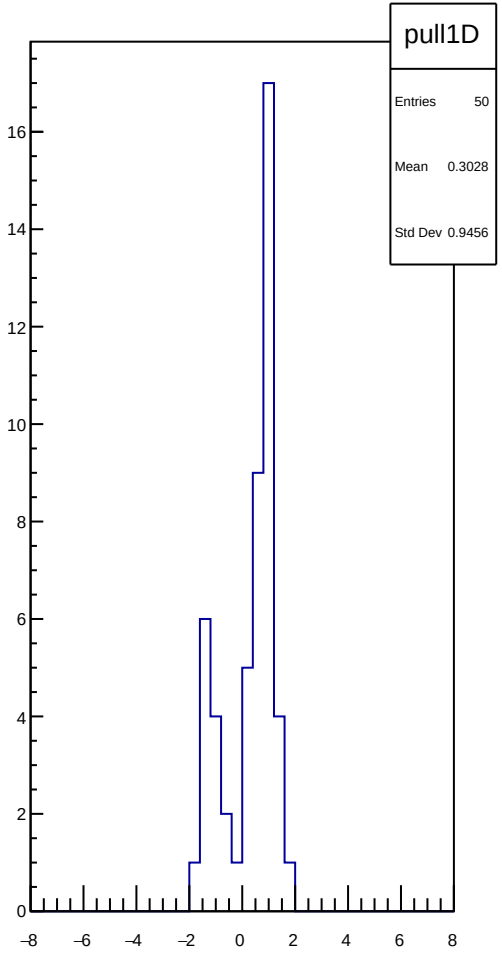

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.2 / 49
p0 15.93 ± 0.4969
pull
Entries 50
Mean 44.96
Std Dev 17.88
pull1D
Entries 50
Mean −0.1703
Std Dev 0.8336

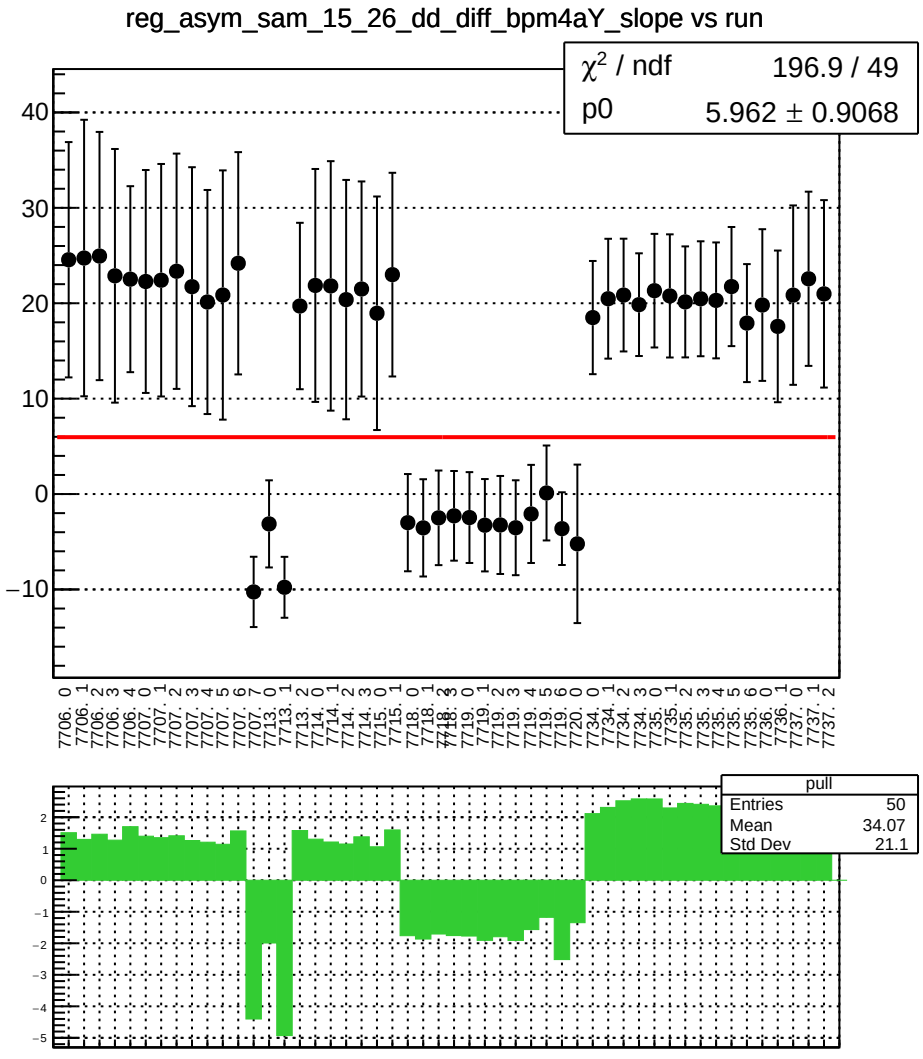

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 668.9 / 49
p0 −36.19 ± 0.9091
pull
Entries 50
Mean 65.77
Std Dev 26.81
pull1D
Entries 50
Mean 0.6861
Std Dev 3.35

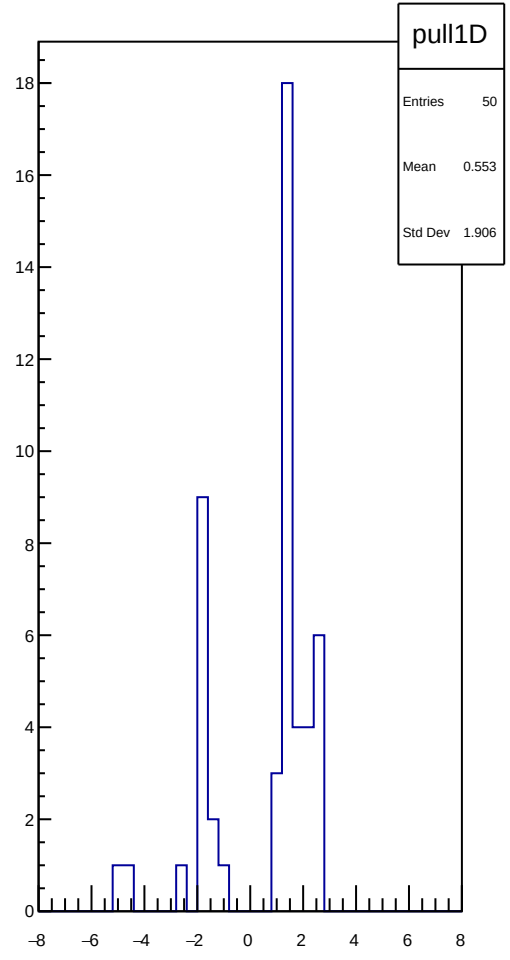

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.04 / 49
p0 0.327 ± 0.03257
pull
Entries 50
Mean 14.59
Std Dev 49.84

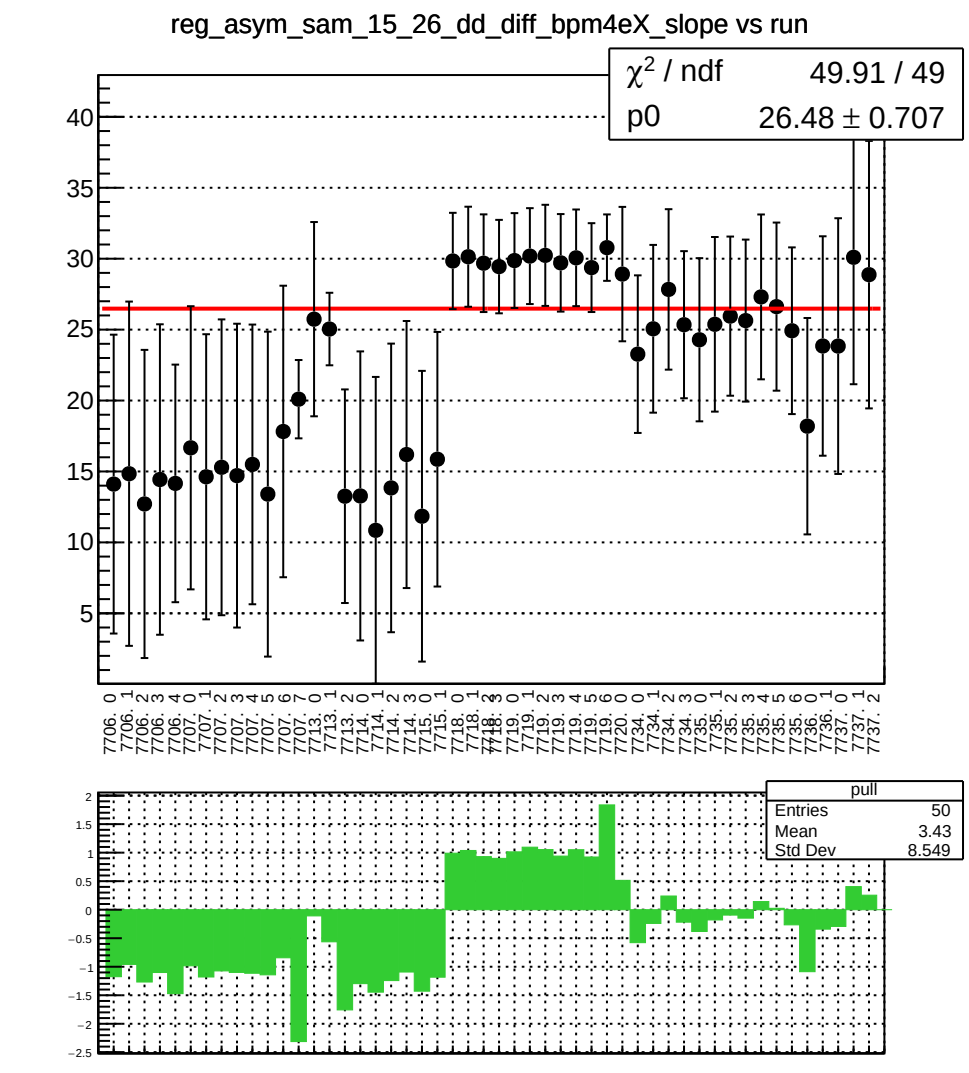

pull1D
Entries 50
Mean −0.01334
Std Dev 0.5483

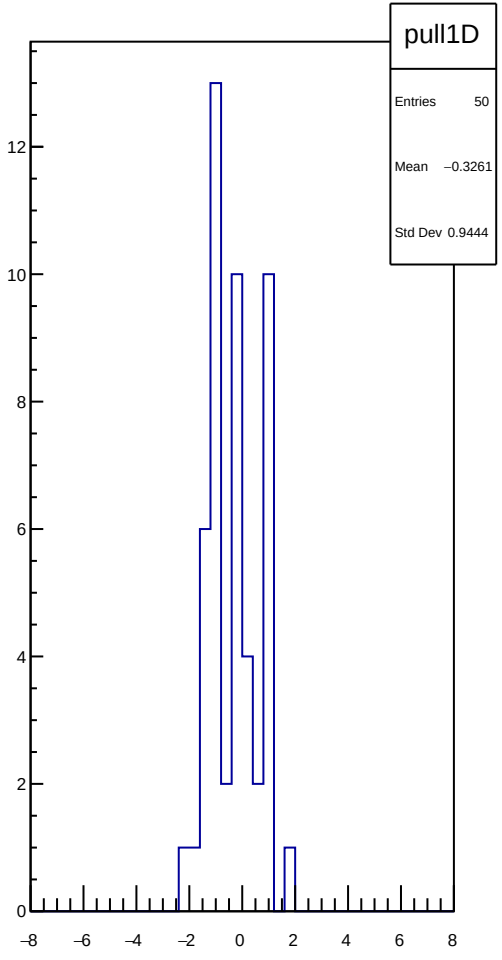

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 49.29 / 49
p0 2.906 ± 0.8176
pull
Entries 50
Mean 13.95
Std Dev 19.22

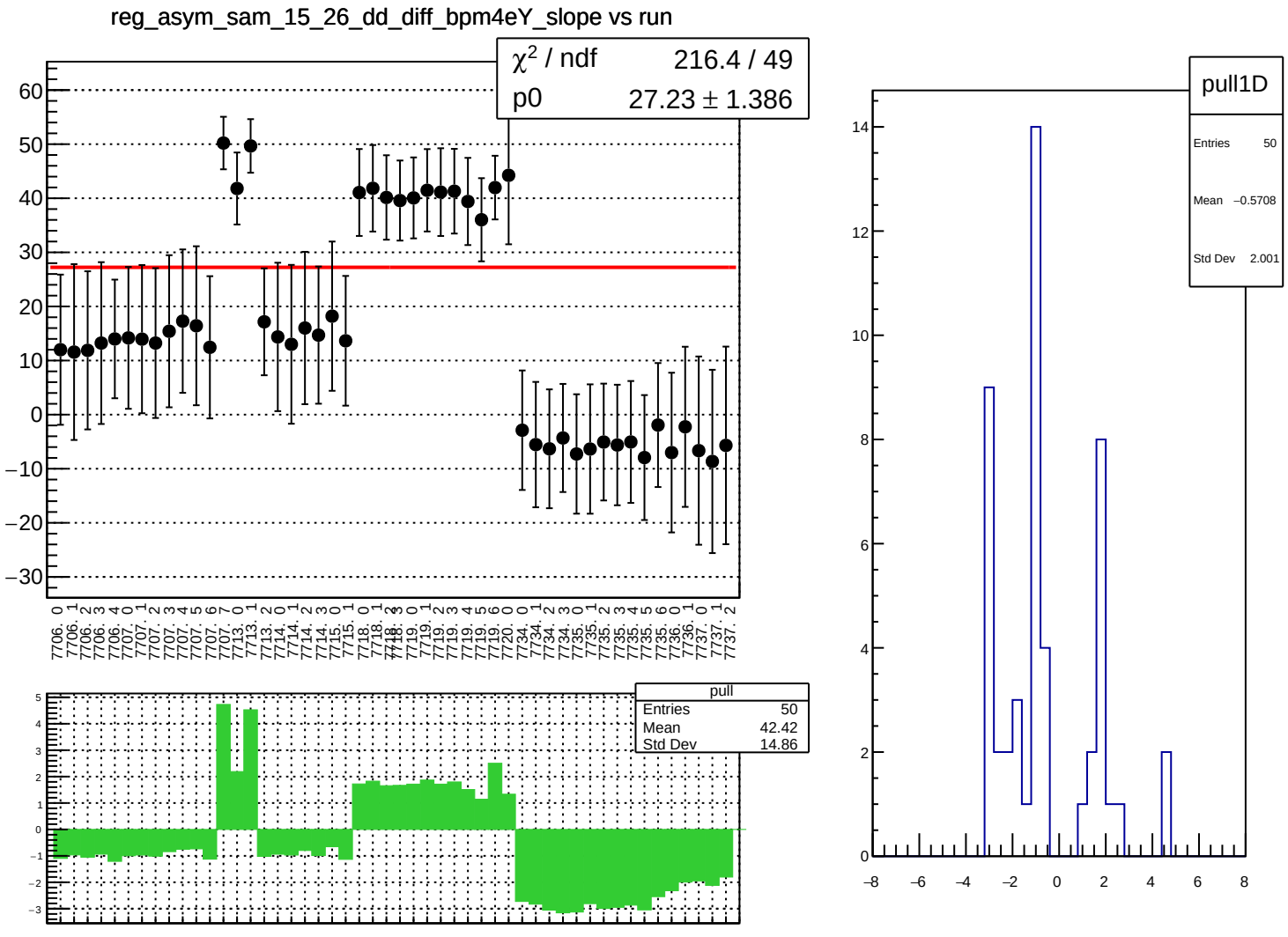

pull1D
Entries 50
Mean 0.3028
Std Dev 0.9456

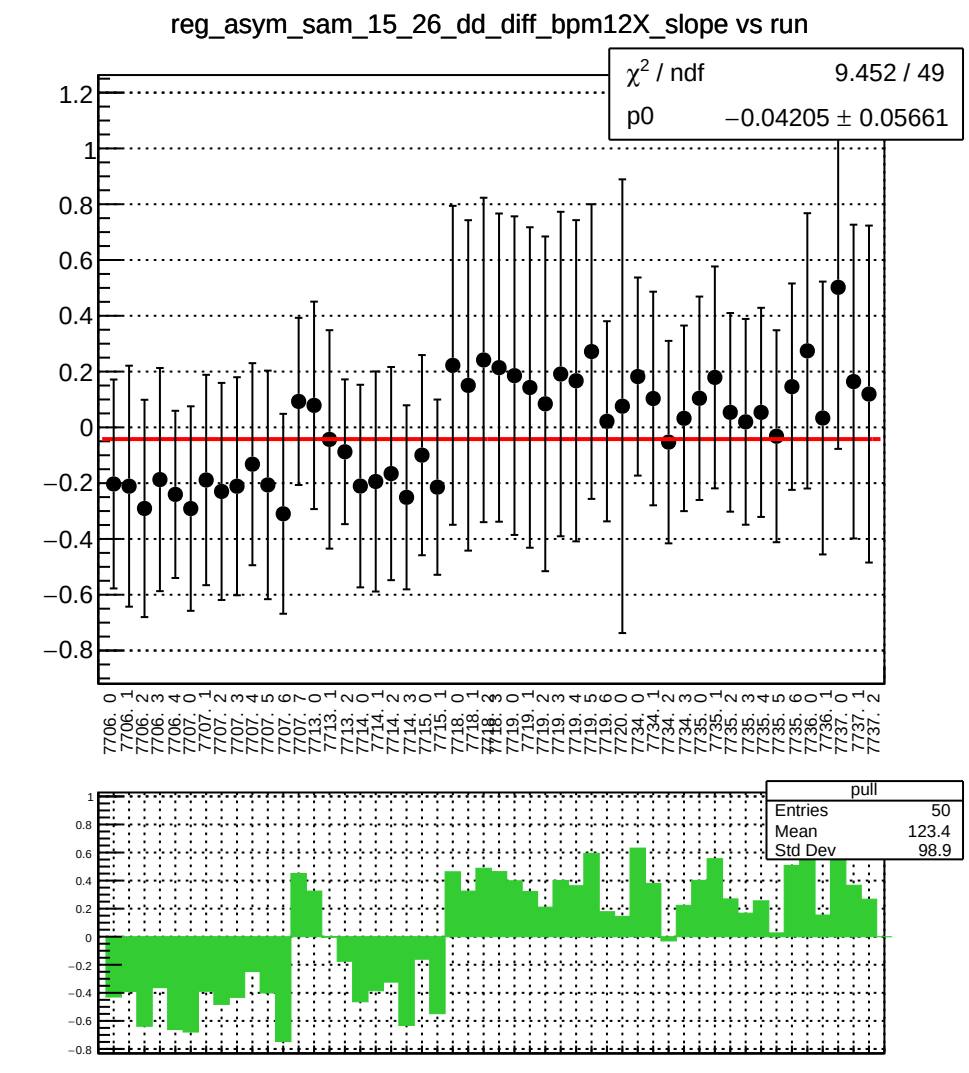

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 196.9 / 49
p0 5.962 ± 0.9068
pull
Entries 50
Mean 34.07
Std Dev 21.1

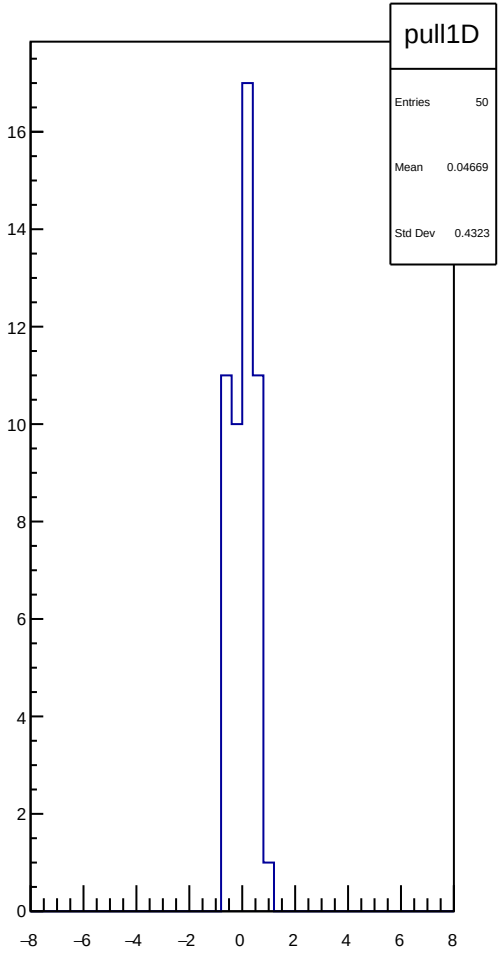

pull1D
Entries 50
Mean 0.553
Std Dev 1.906

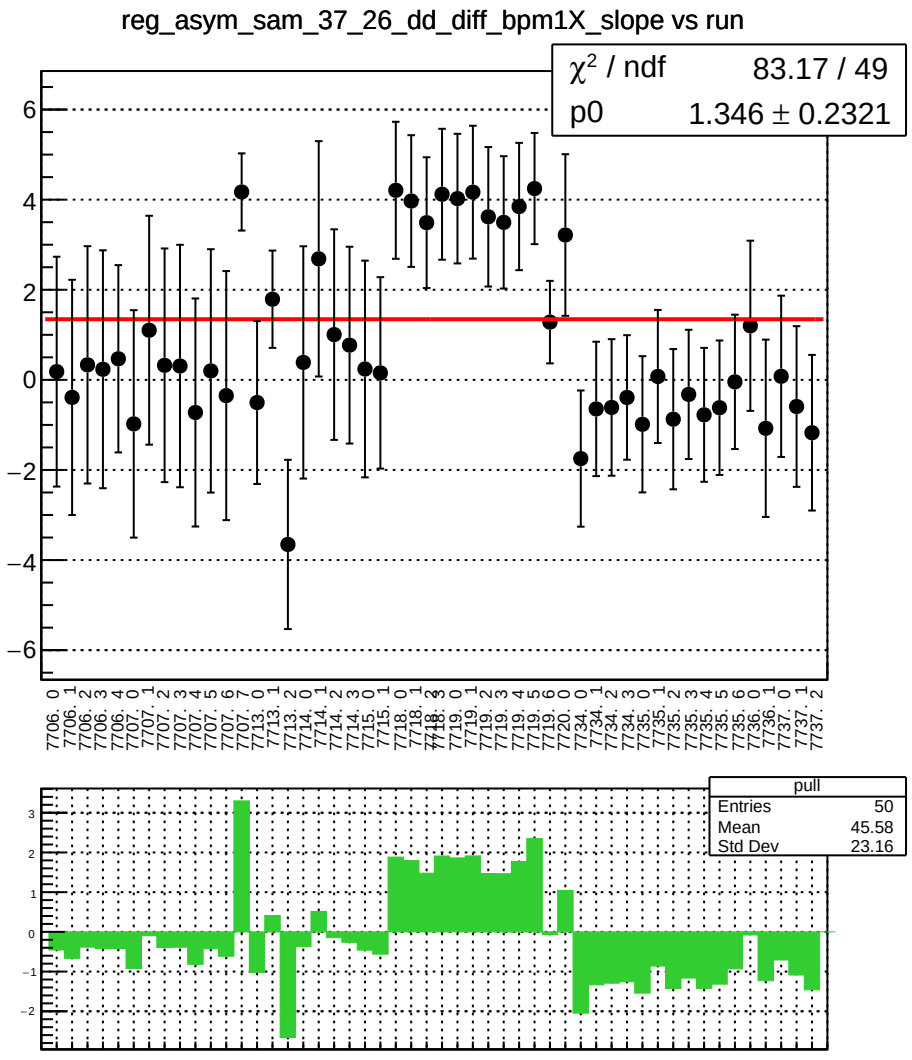

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.91 / 49
p0 26.48 ± 0.707
pull
Entries 50
Mean 3.43
Std Dev 8.549

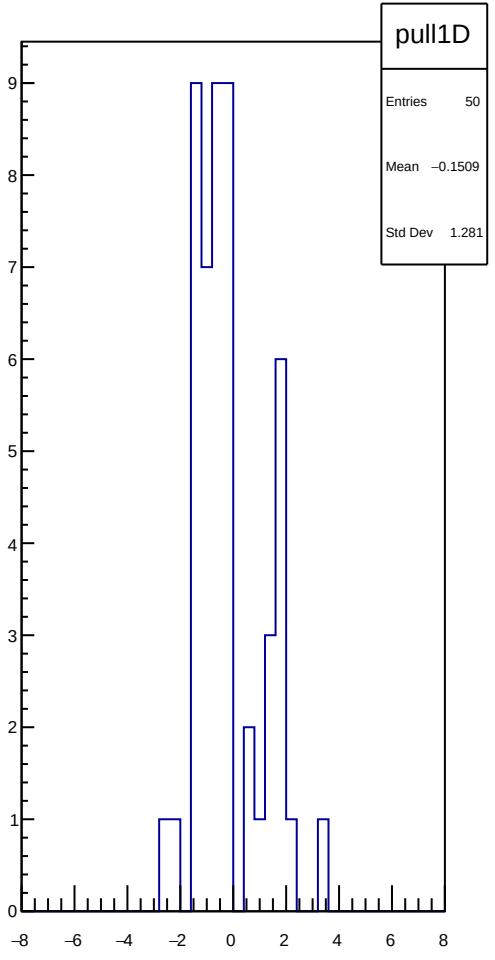

pull1D
Entries 50
Mean −0.3261
Std Dev 0.9444

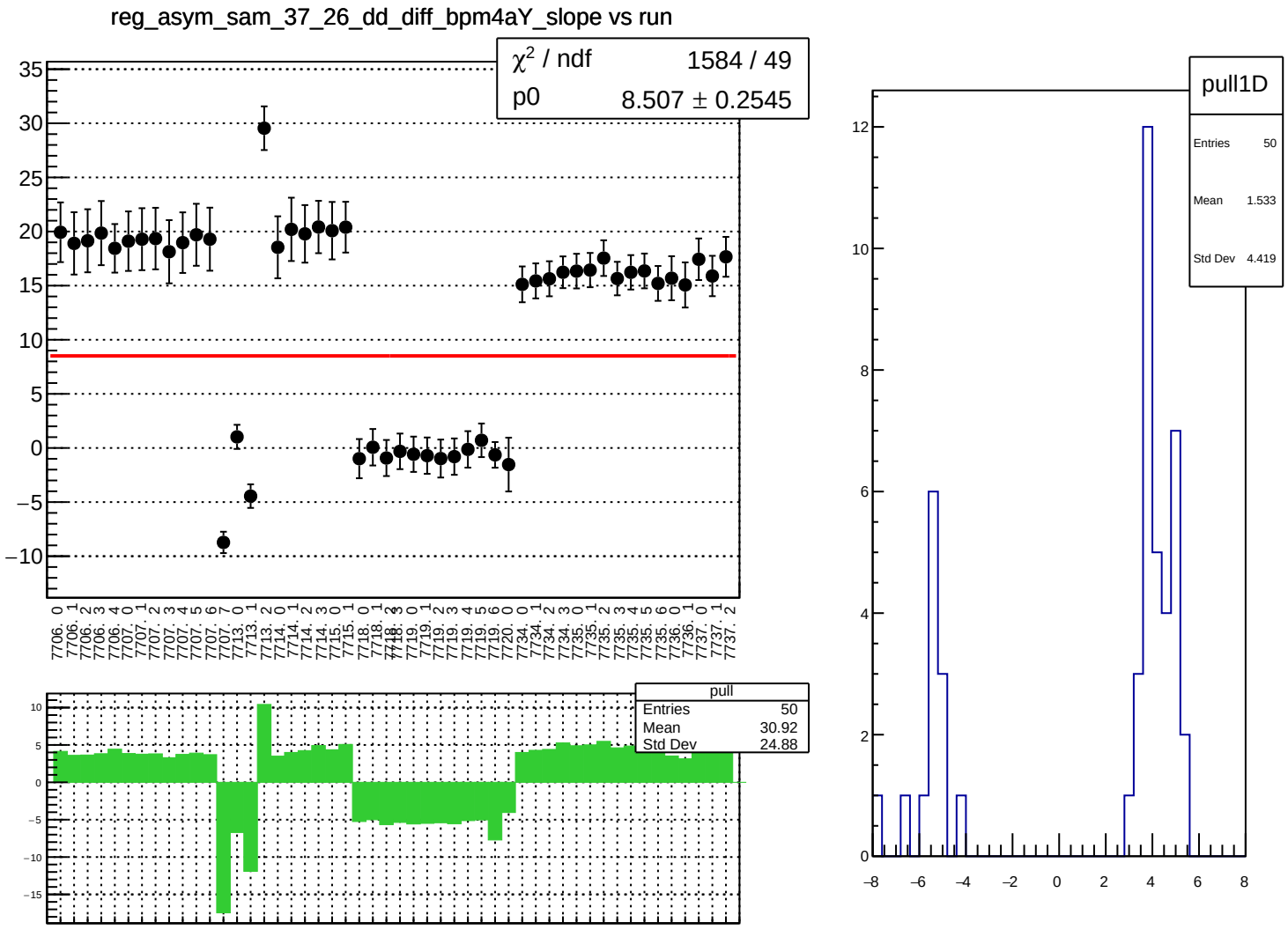

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 216.4 / 49
p0 27.23 ± 1.386
pull
Entries 50
Mean 42.42
Std Dev 14.86
pull1D
Entries 50
Mean −0.5708
Std Dev 2.001

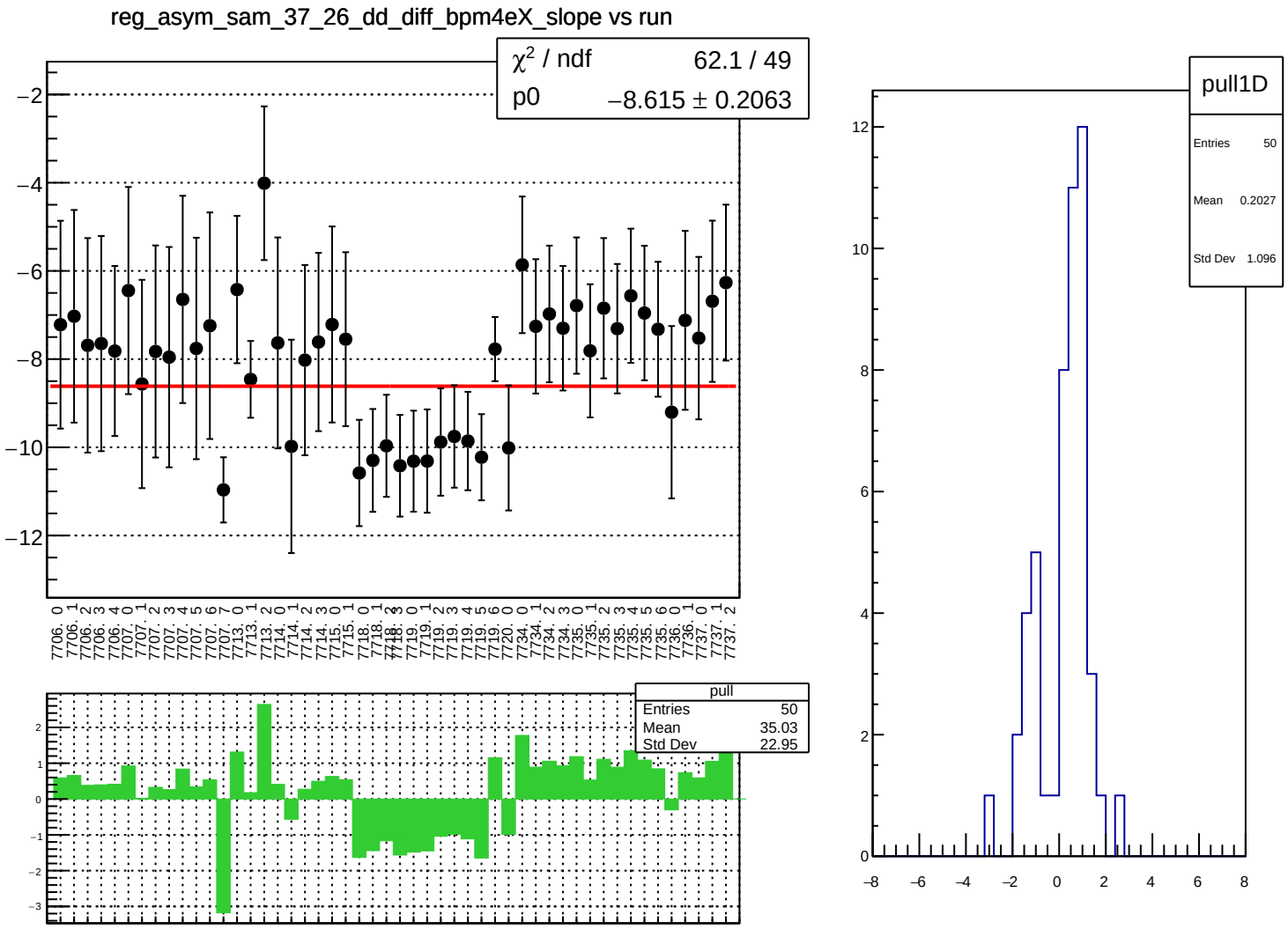

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.452 / 49
p0 −0.04205 ± 0.05661
pull
Entries 50
Mean 123.4
Std Dev 98.9

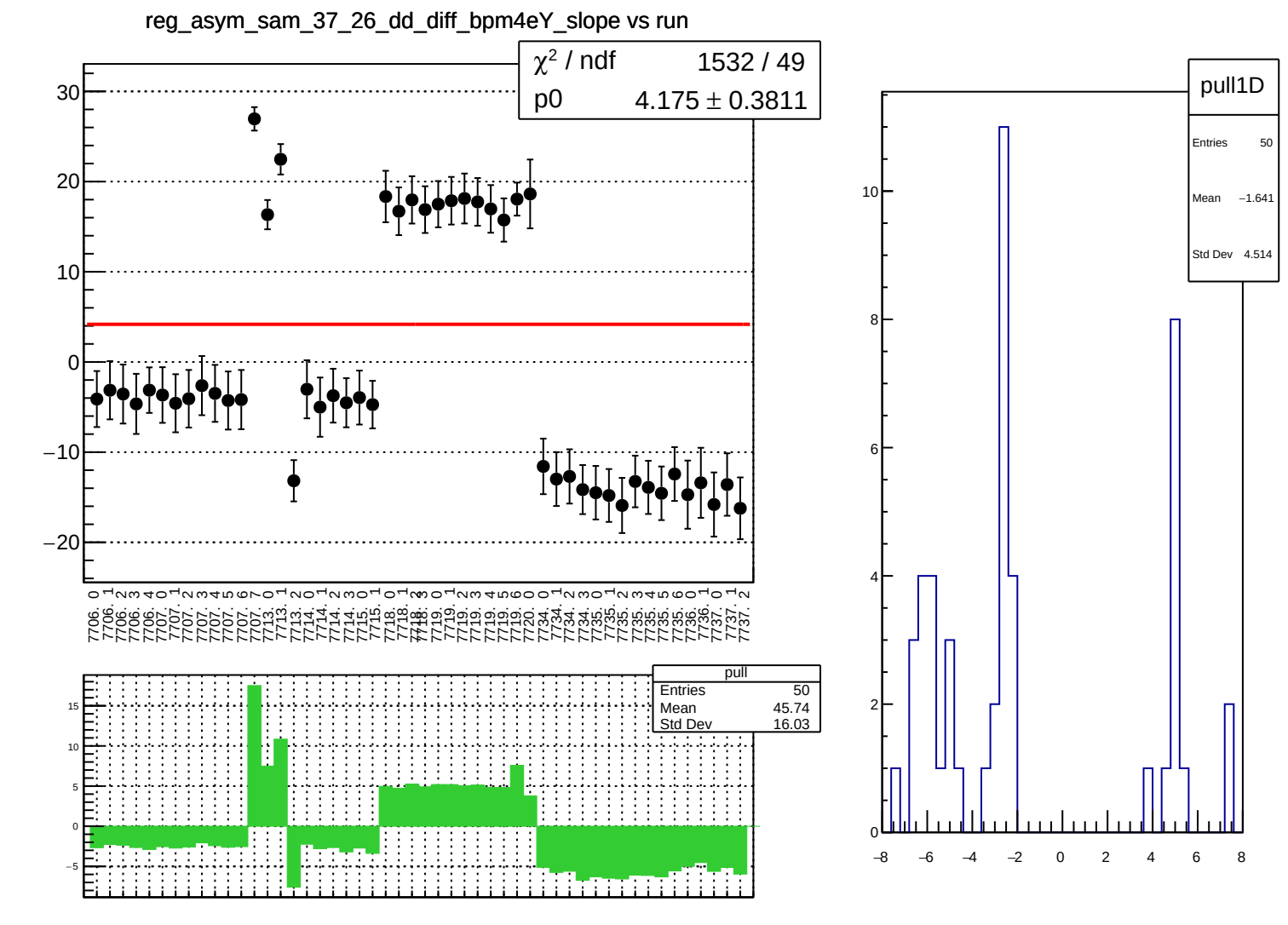

pull1D
Entries 50
Mean 0.04669
Std Dev 0.4323

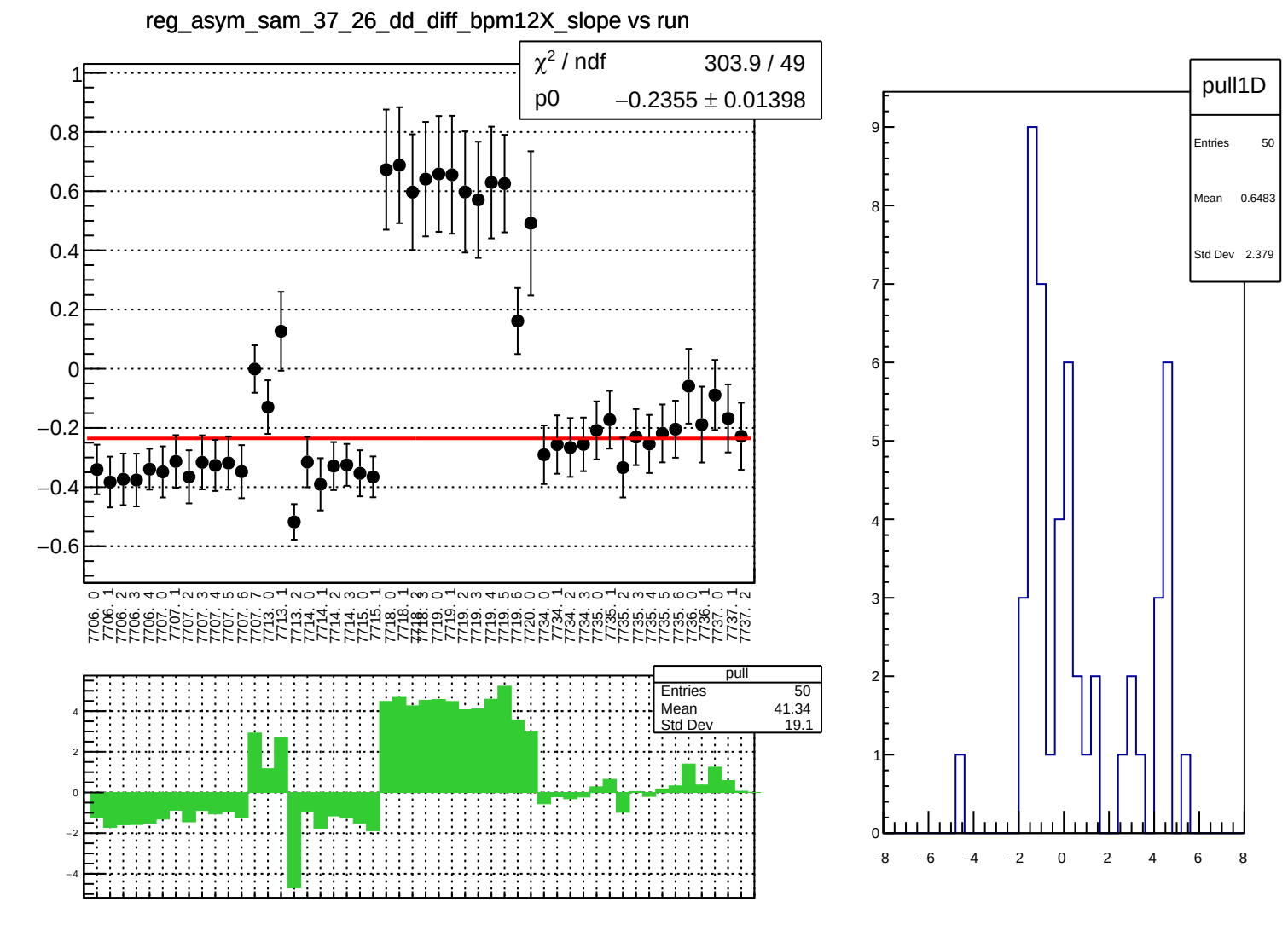

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 83.17 / 49
p0 1.346 ± 0.2321
pull
Entries 50
Mean 45.58
Std Dev 23.16

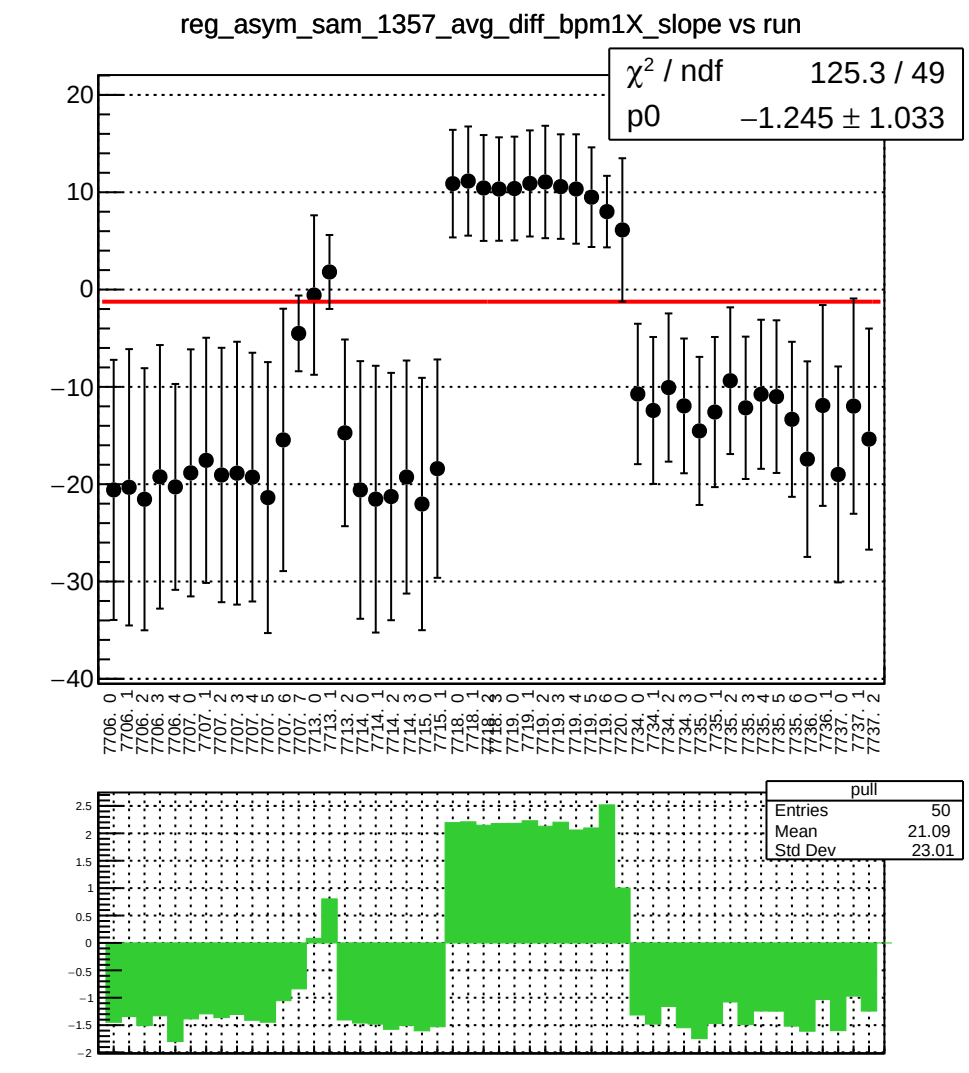

pull1D
Entries 50
Mean −0.1509
Std Dev 1.281

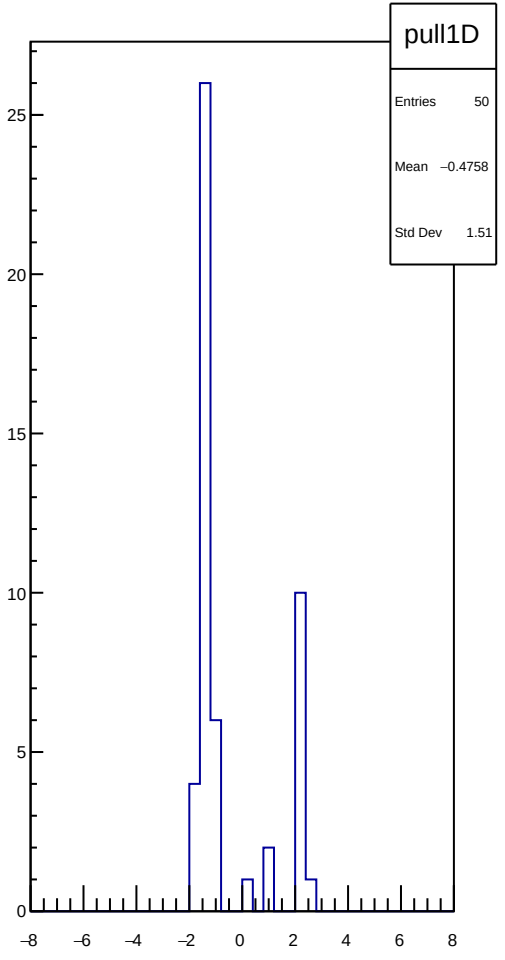

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1584 / 49
p0 8.507 ± 0.2545
pull
Entries 50
Mean 30.92
Std Dev 24.88
pull1D
Entries 50
Mean 1.533
Std Dev 4.419

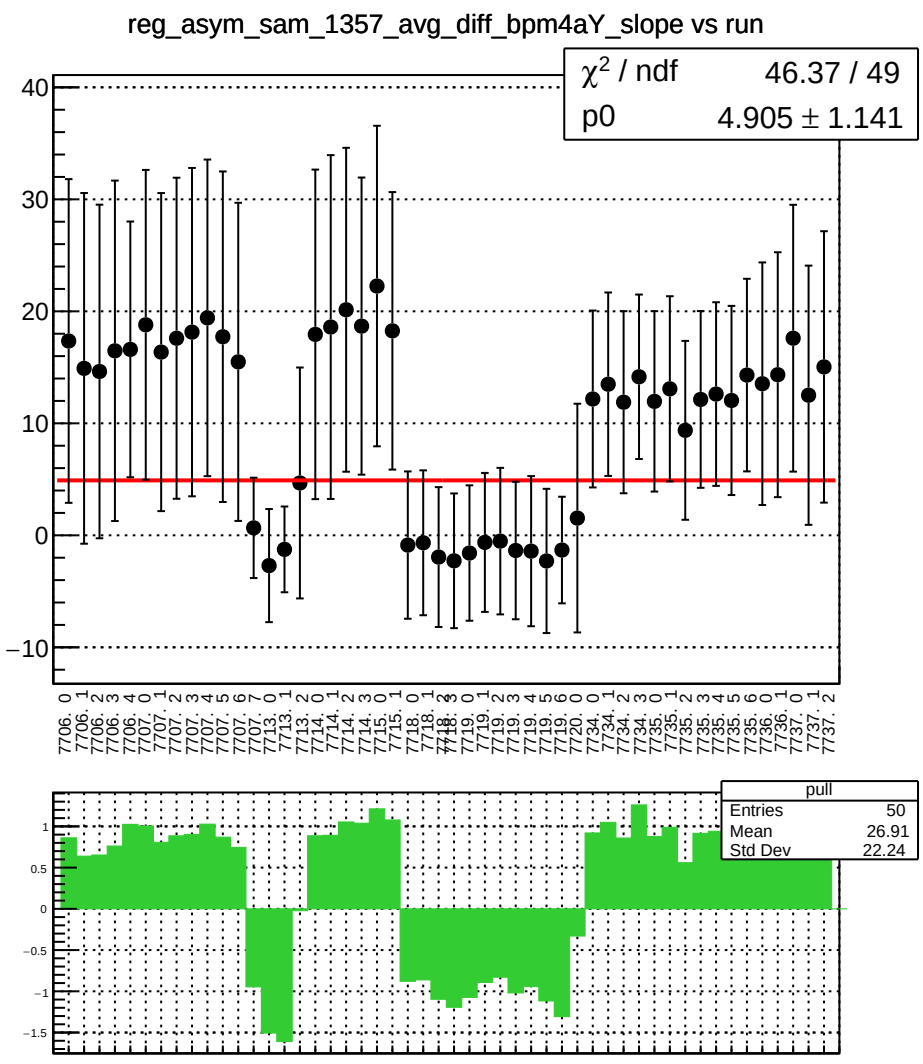

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.1 / 49
p0 −8.615 ± 0.2063
pull
Entries 50
Mean 35.03
Std Dev 22.95
pull1D
Entries 50
Mean 0.2027
Std Dev 1.096

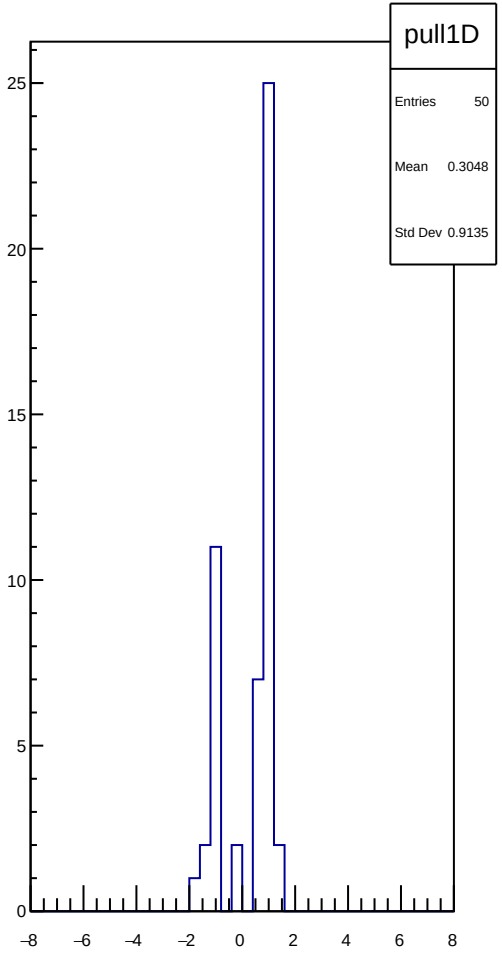

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1532 / 49
p0 4.175 ± 0.3811
pull
Entries 50
Mean 45.74
Std Dev 16.03
pull1D
Entries 50
Mean −1.641
Std Dev 4.514

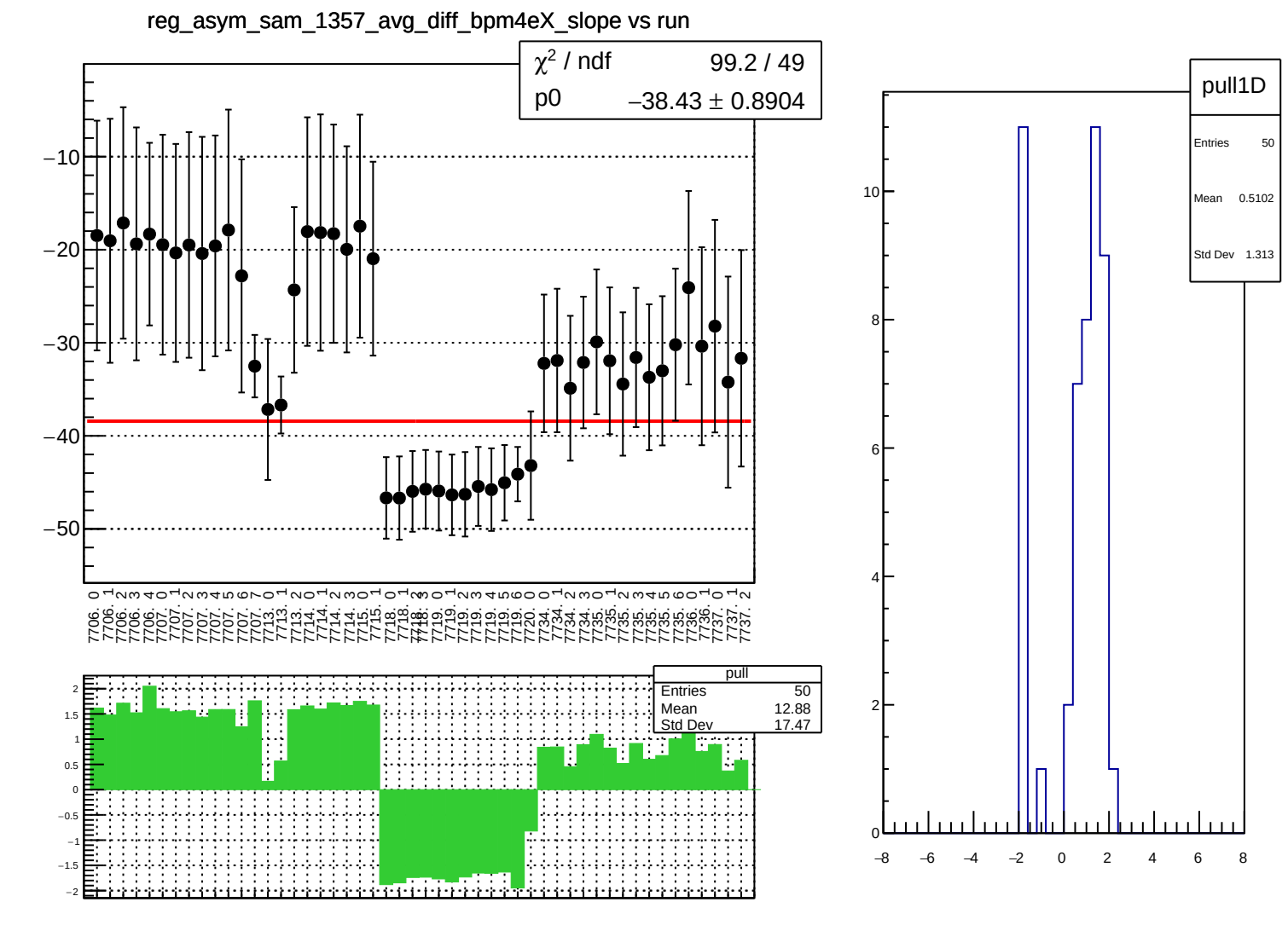

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 303.9 / 49
p0 −0.2355 ± 0.01398
pull
Entries 50
Mean 41.34
Std Dev 19.1
pull1D
Entries 50
Mean 0.6483
Std Dev 2.379

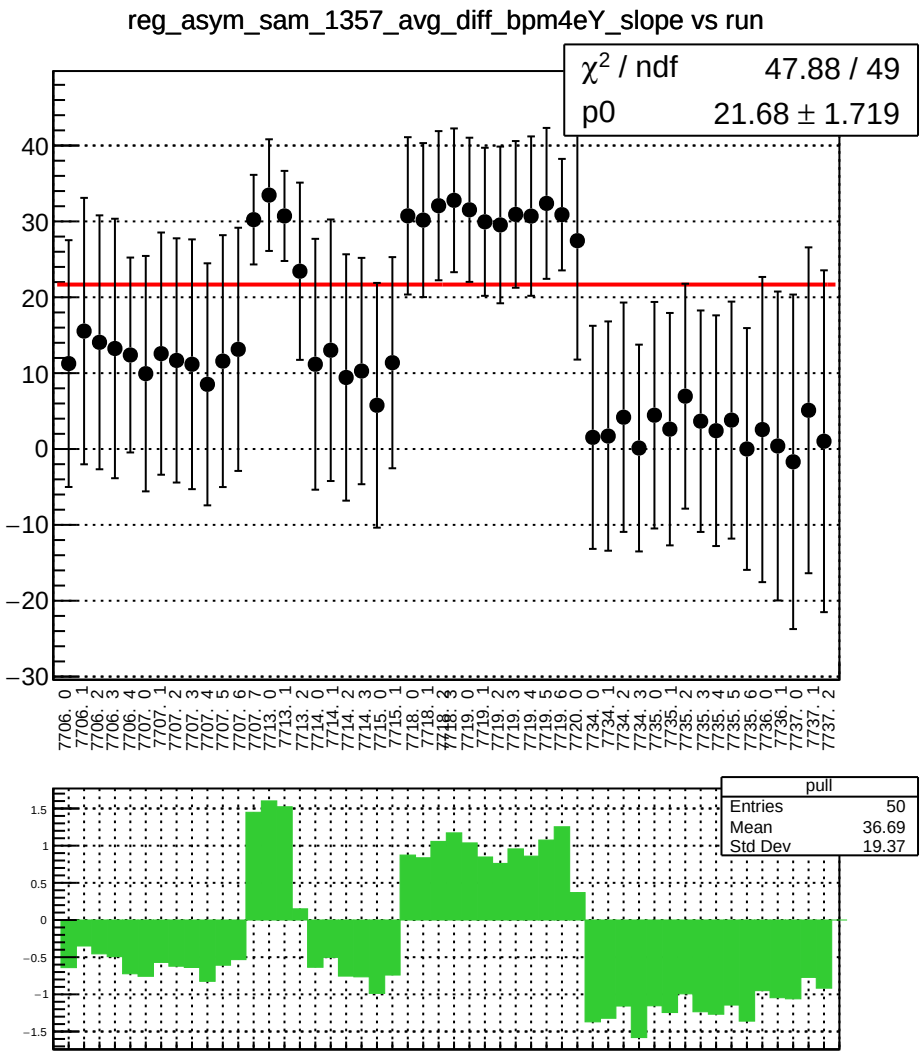

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 125.3 / 49
p0 −1.245 ± 1.033
pull
Entries 50
Mean 21.09
Std Dev 23.01

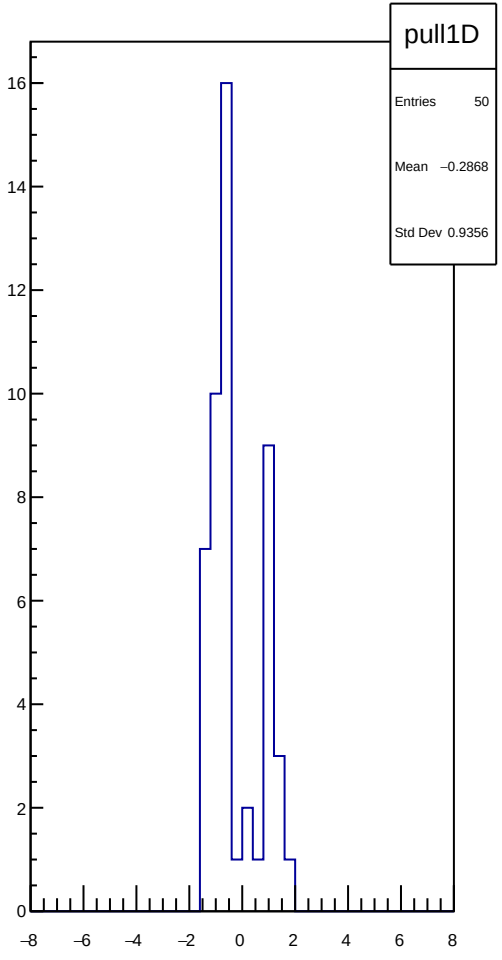

pull1D
Entries 50
Mean −0.4758
Std Dev 1.51

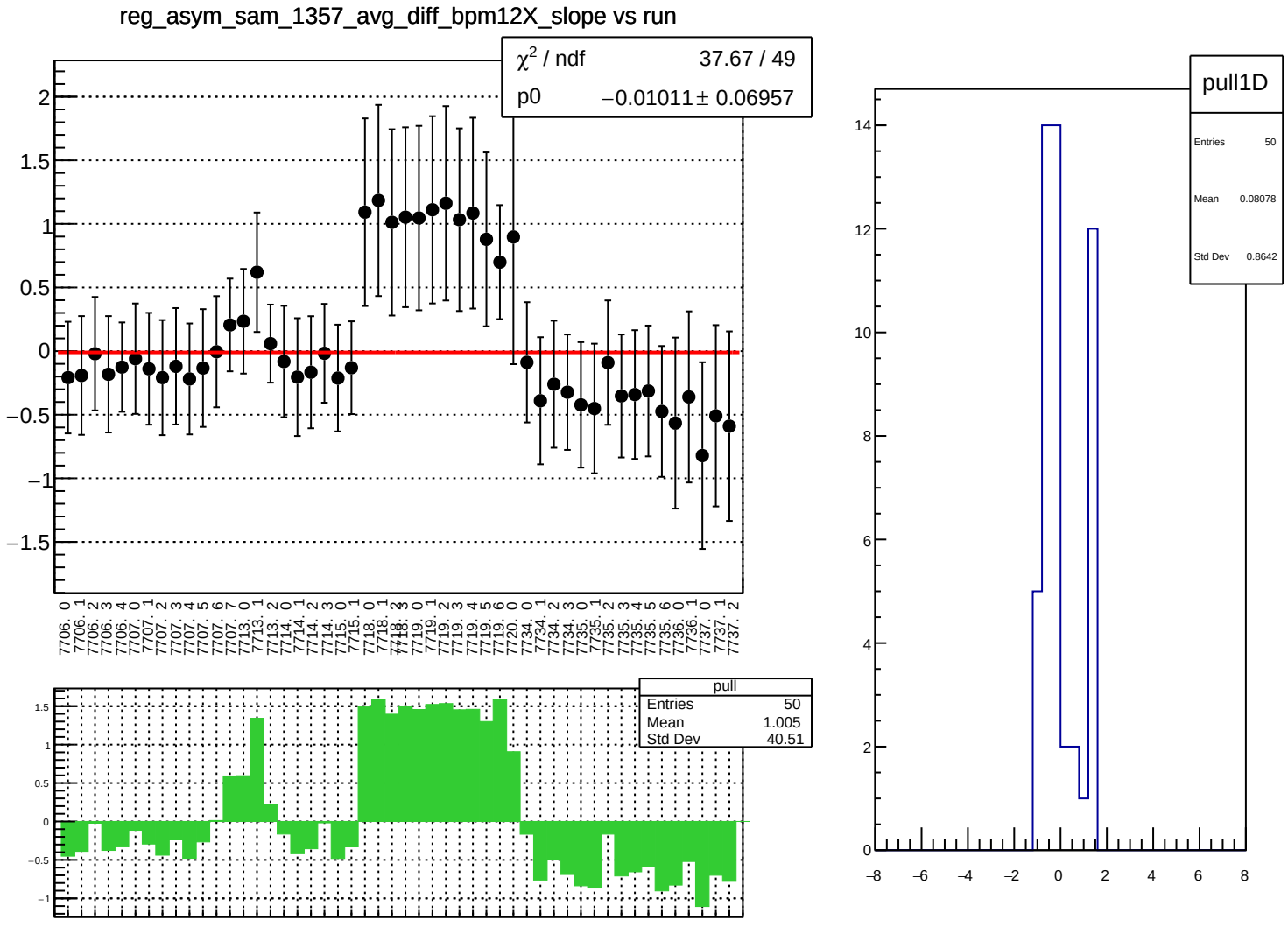

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.37 / 49
p0 4.905 ± 1.141
pull
Entries 50
Mean 26.91
Std Dev 22.24

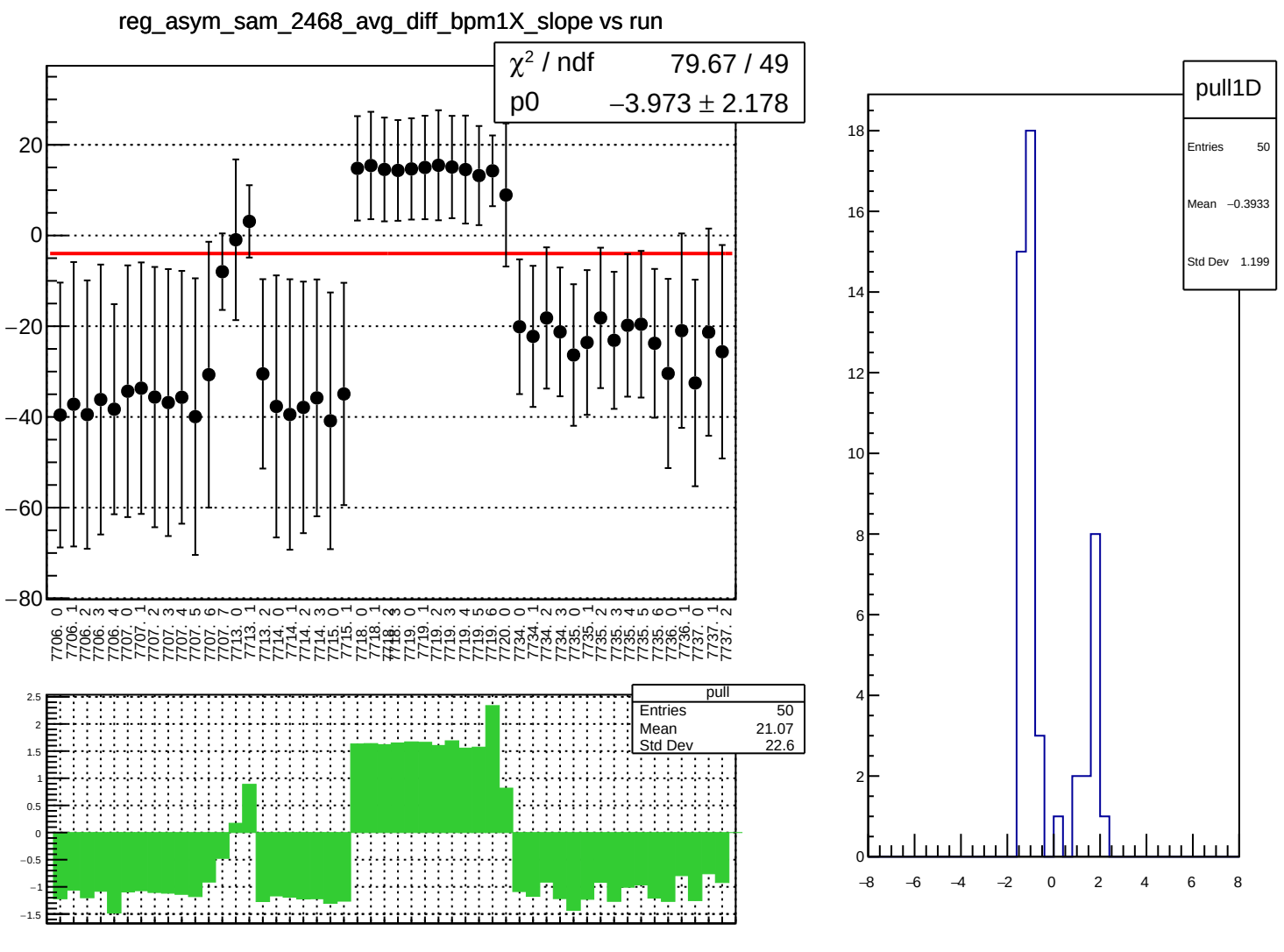

pull1D
Entries 50
Mean 0.3048
Std Dev 0.9135

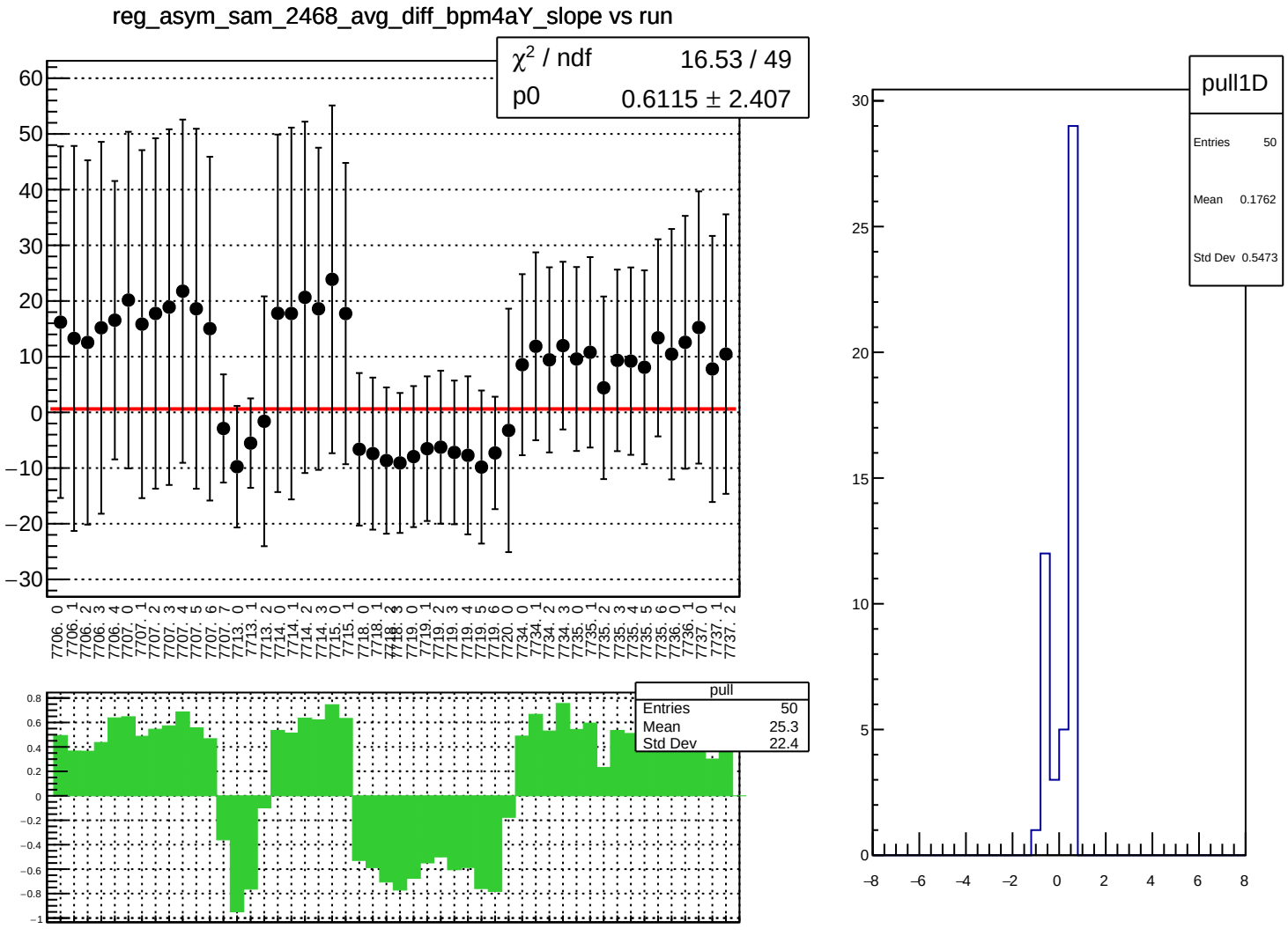

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.2 / 49
p0 −38.43 ± 0.8904
pull
Entries 50
Mean 12.88
Std Dev 17.47
pull1D
Entries 50
Mean 0.5102
Std Dev 1.313

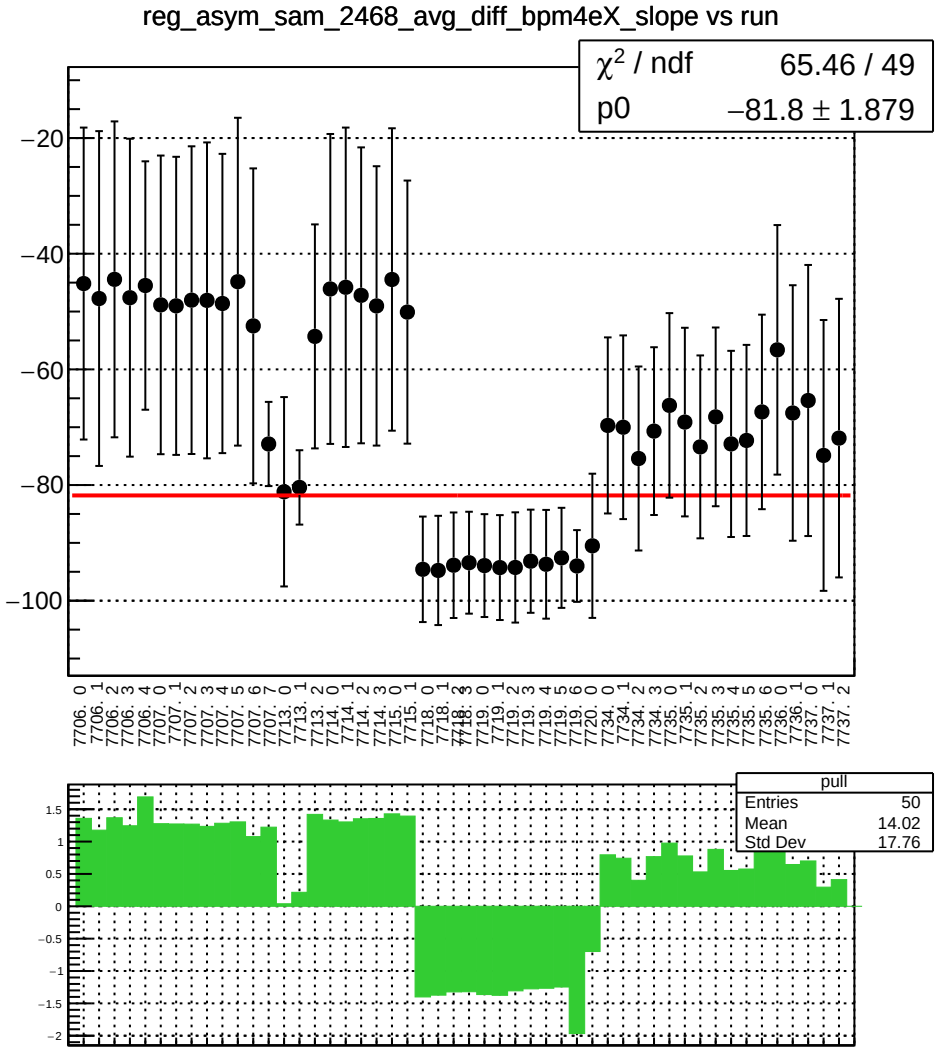

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 47.88 / 49
p0 21.68 ± 1.719
pull
Entries 50
Mean 36.69
Std Dev 19.37

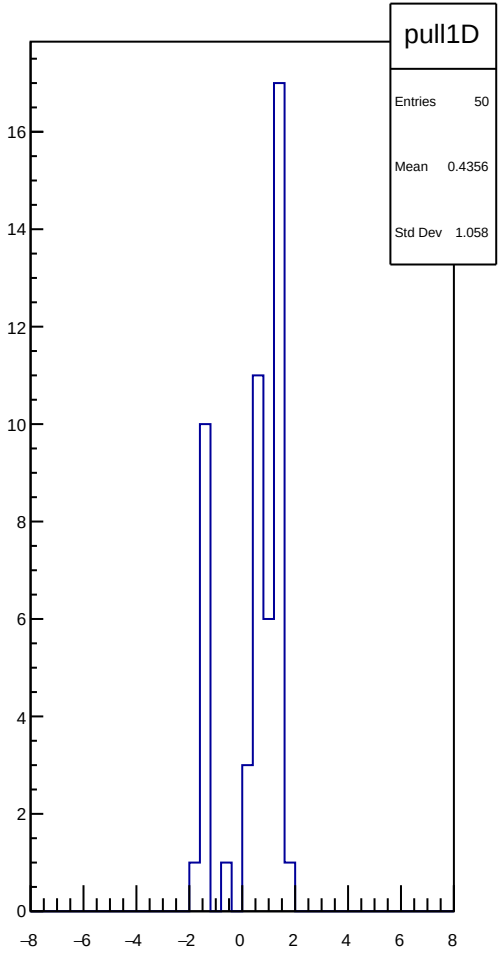

pull1D
Entries 50
Mean −0.2868
Std Dev 0.9356

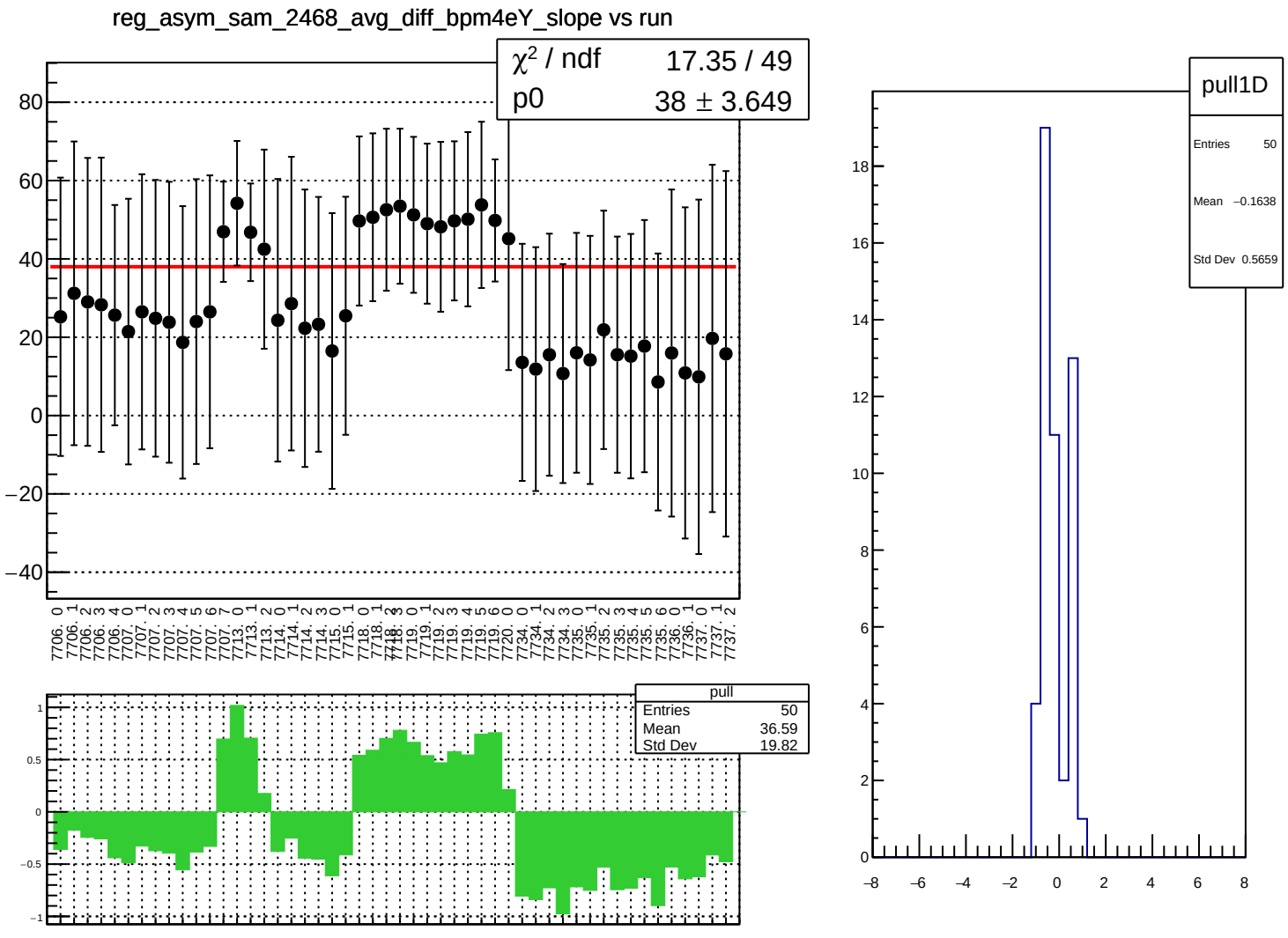

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 37.67 / 49
p0 −0.01011 ± 0.06957
pull
Entries 50
Mean 1.005
Std Dev 40.51
pull1D
Entries 50
Mean 0.08078
Std Dev 0.8642

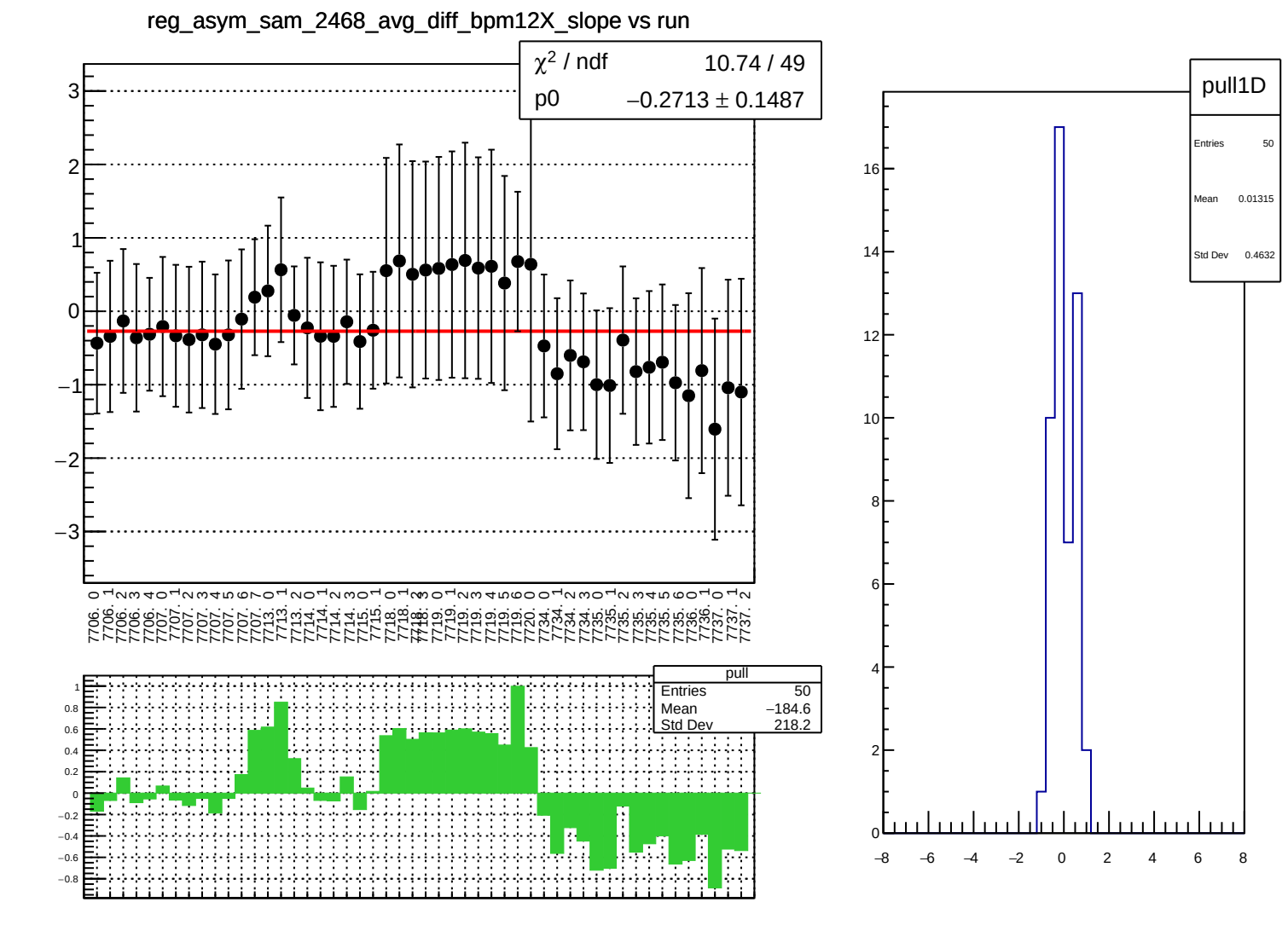

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 79.67 / 49
p0 −3.973 ± 2.178
pull
Entries 50
Mean 21.07
Std Dev 22.6
pull1D
Entries 50
Mean −0.3933
Std Dev 1.199

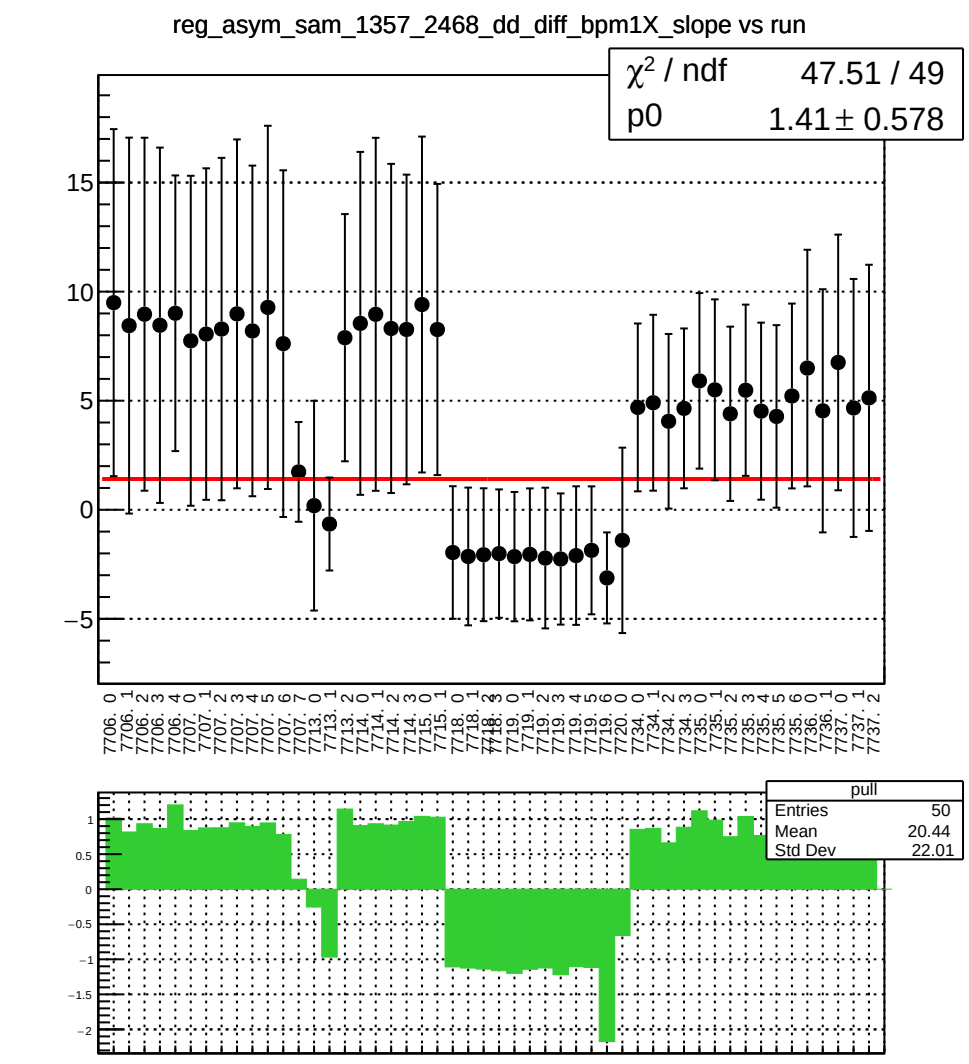

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.53 / 49
p0 0.6115 ± 2.407
pull
Entries 50
Mean 25.3
Std Dev 22.4
pull1D
Entries 50
Mean 0.1762
Std Dev 0.5473

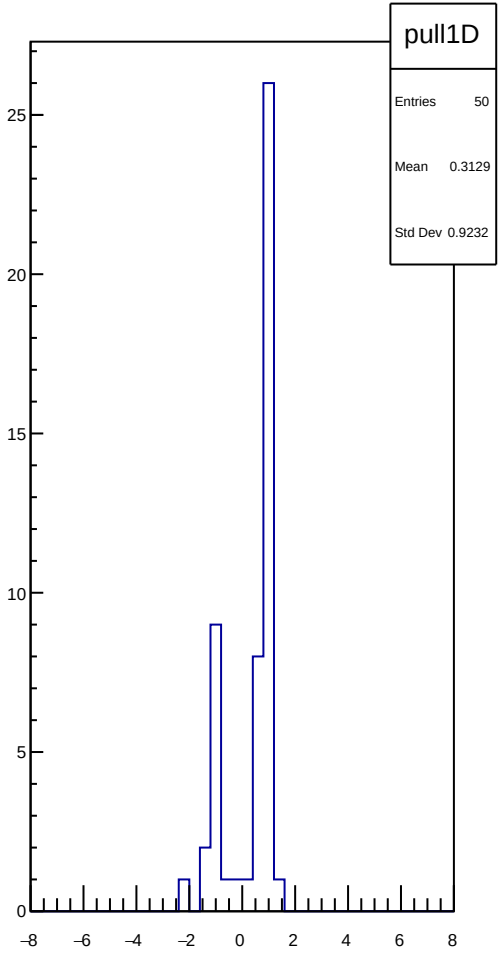

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.46 / 49
p0 −81.8 ± 1.879
pull
Entries 50
Mean 14.02
Std Dev 17.76

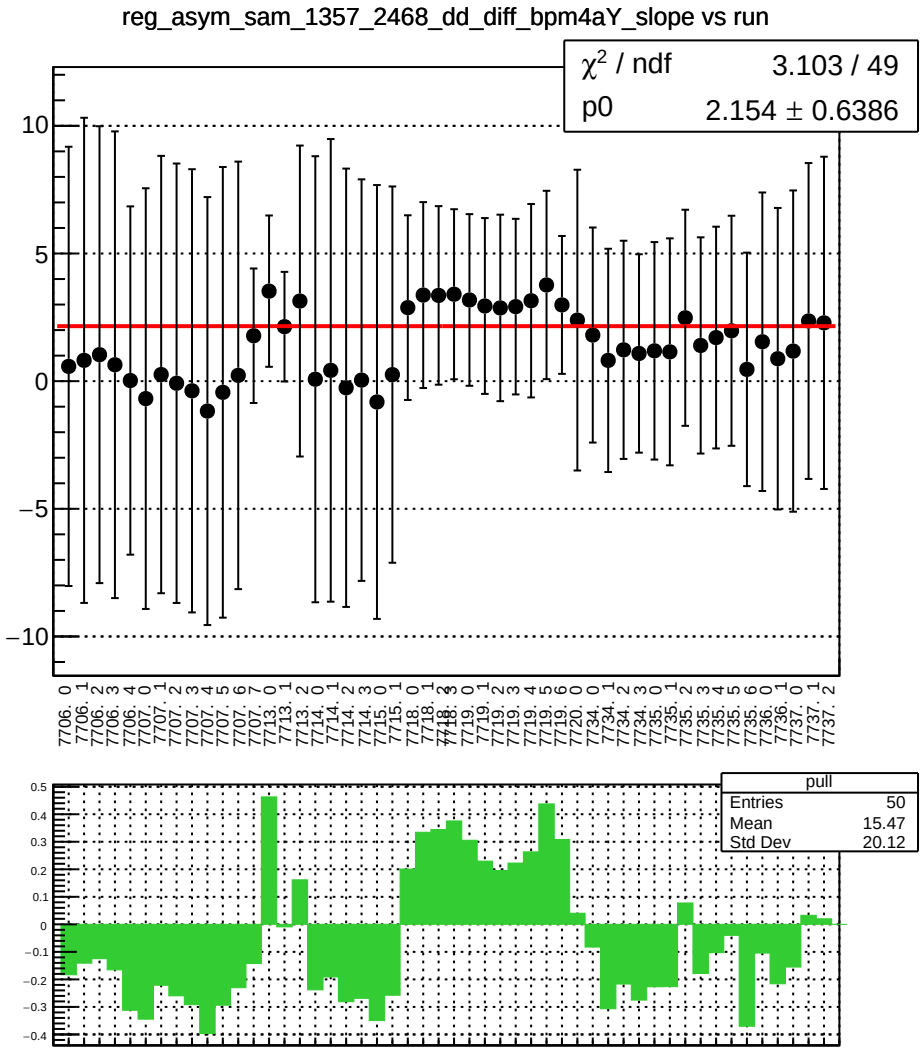

pull1D
Entries 50
Mean 0.4356
Std Dev 1.058

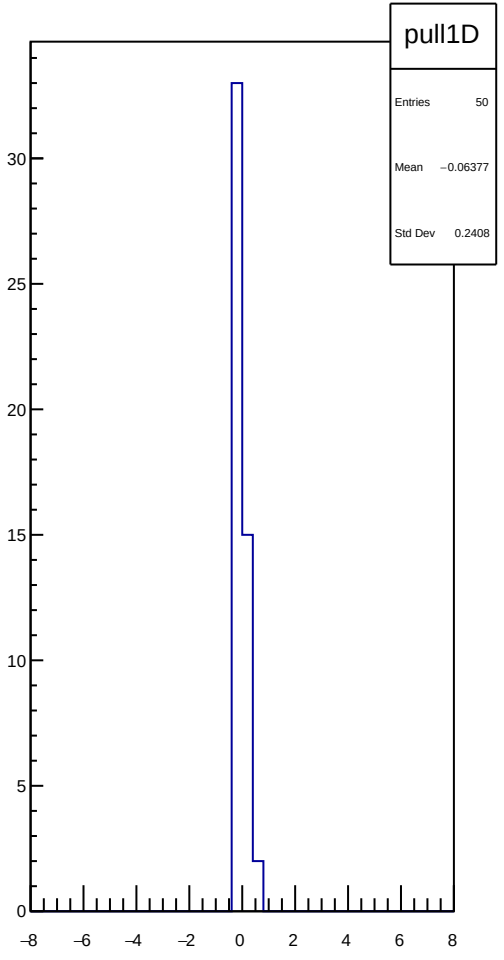

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.35 / 49
p0 38 ± 3.649
pull
Entries 50
Mean 36.59
Std Dev 19.82
pull1D
Entries 50
Mean −0.1638
Std Dev 0.5659

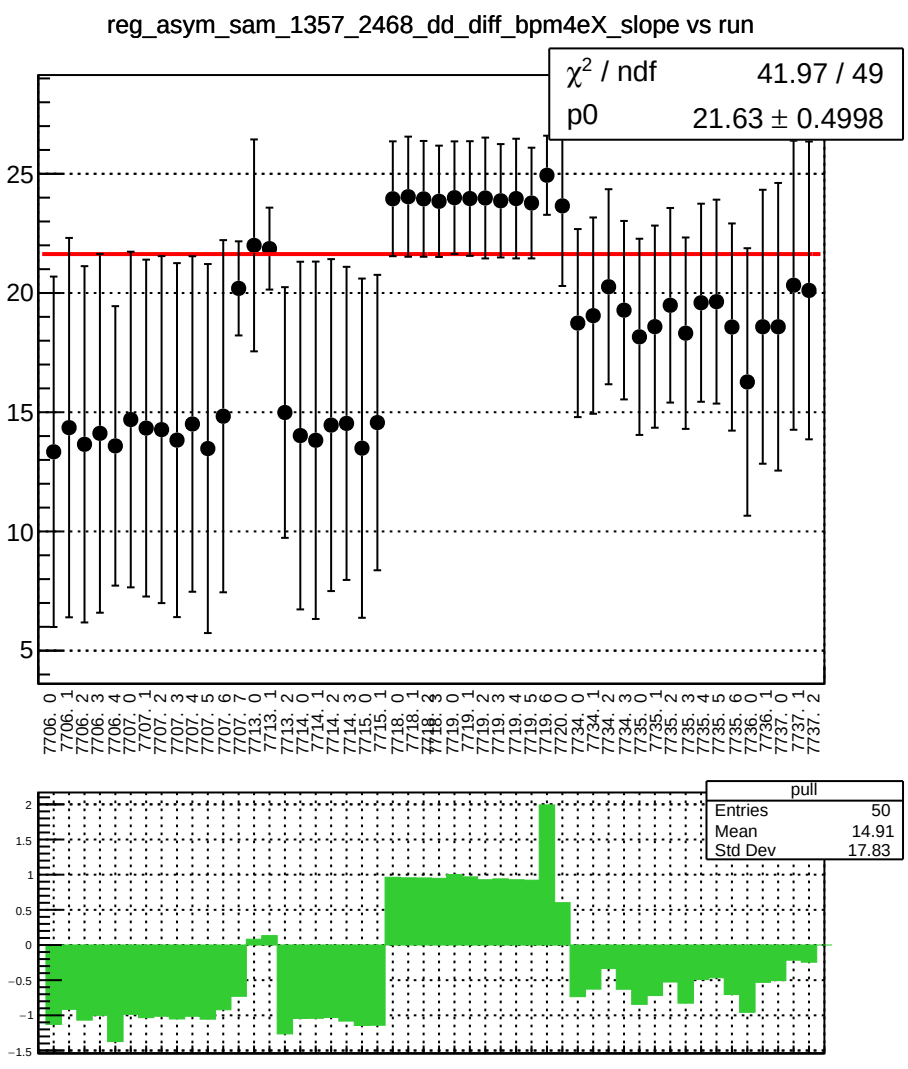

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 10.74 / 49
p0 −0.2713 ± 0.1487
pull
Entries 50
Mean −184.6
Std Dev 218.2
pull1D
Entries 50
Mean 0.01315
Std Dev 0.4632

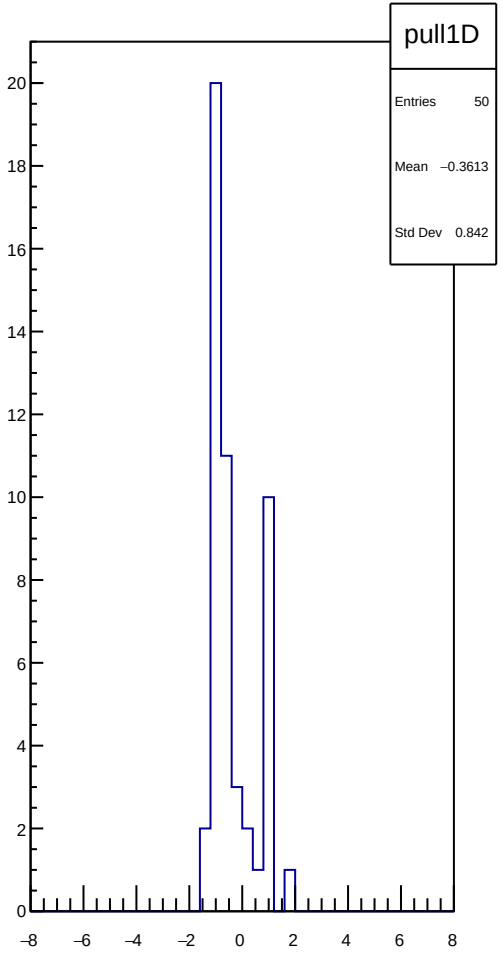

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 47.51 / 49
p0 1.41 ± 0.578
pull
Entries 50
Mean 20.44
Std Dev 22.01

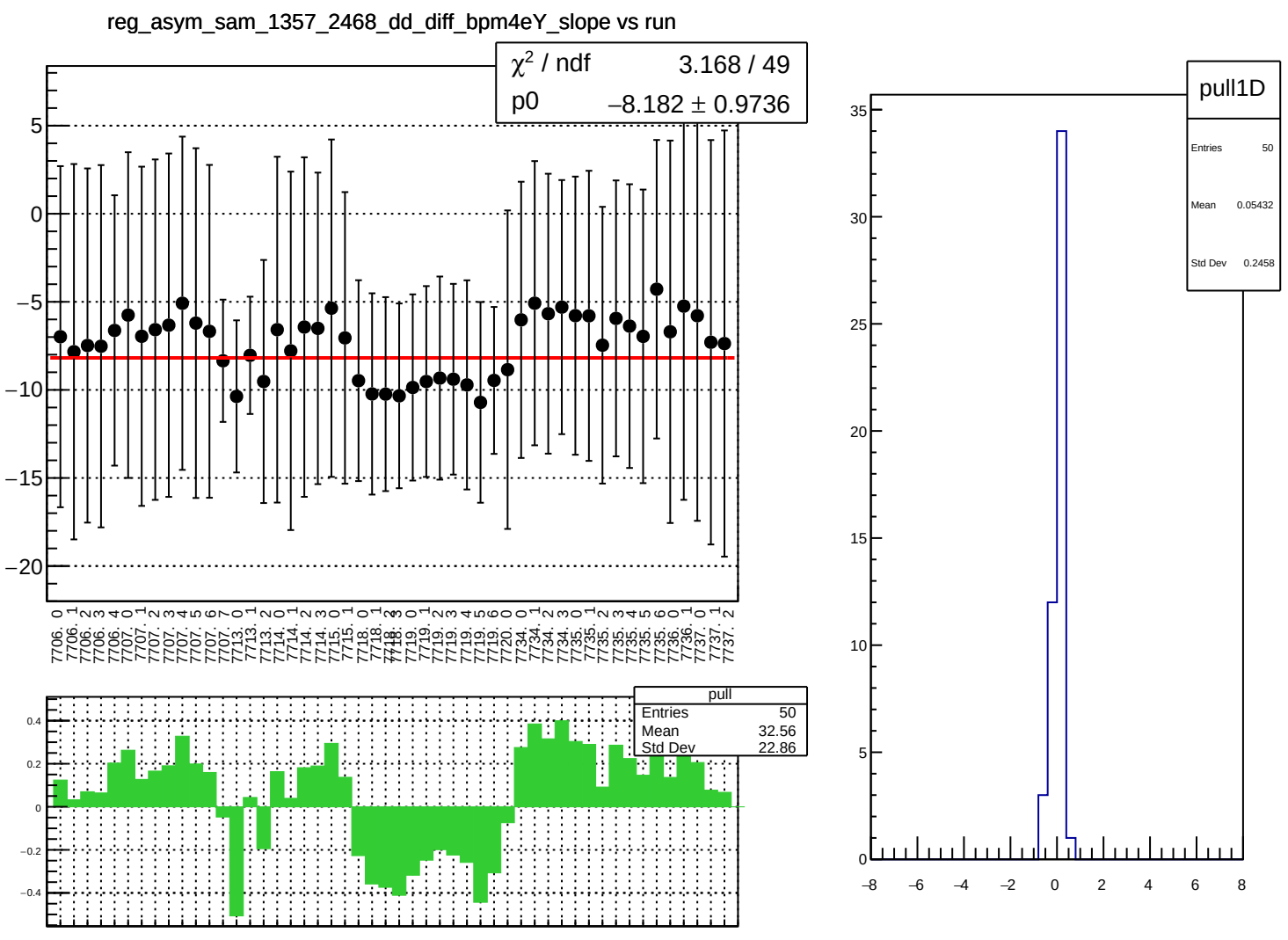

pull1D
Entries 50
Mean 0.3129
Std Dev 0.9232

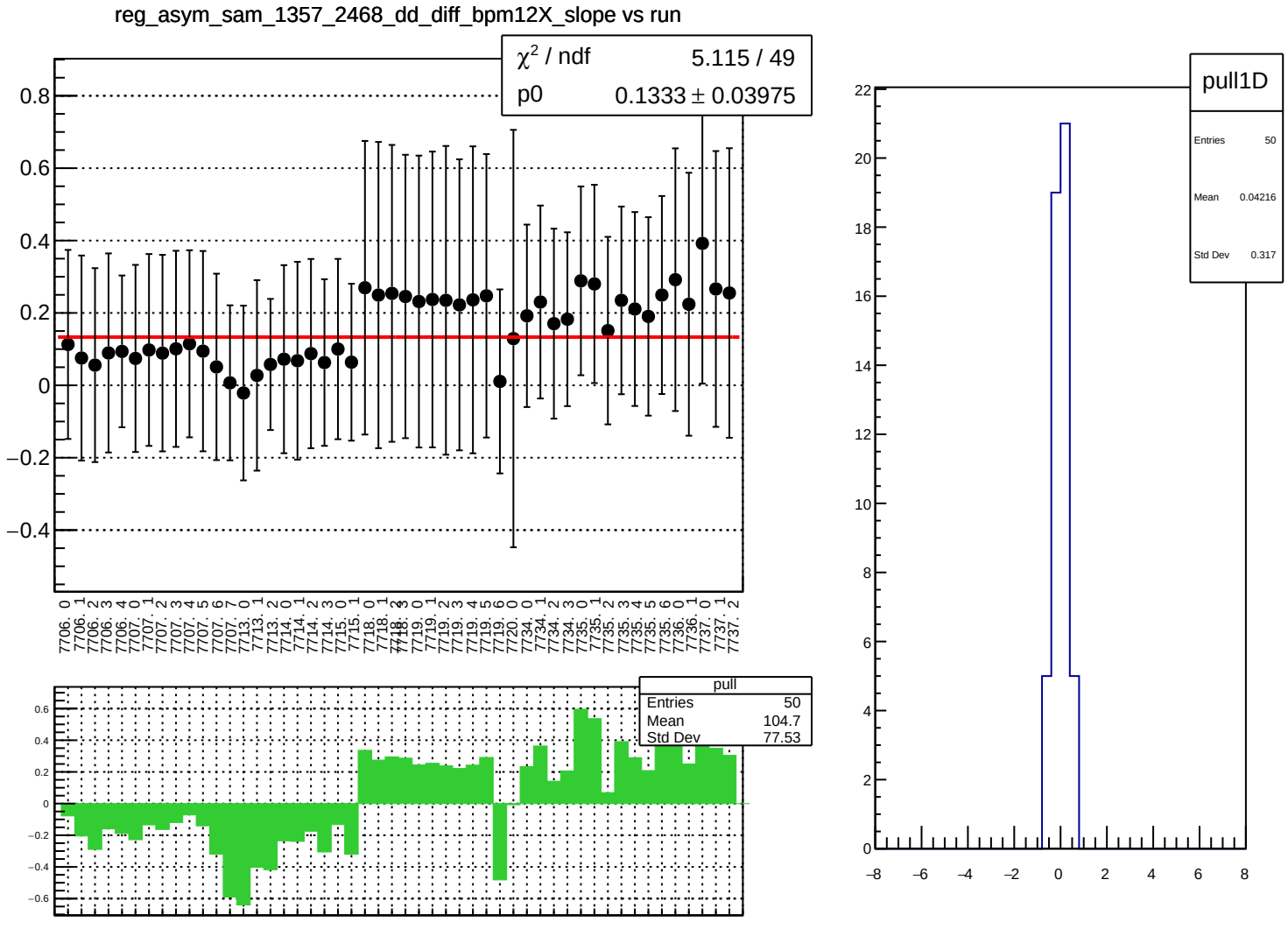

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.103 / 49
p0 2.154 ± 0.6386
pull
Entries 50
Mean 15.47
Std Dev 20.12

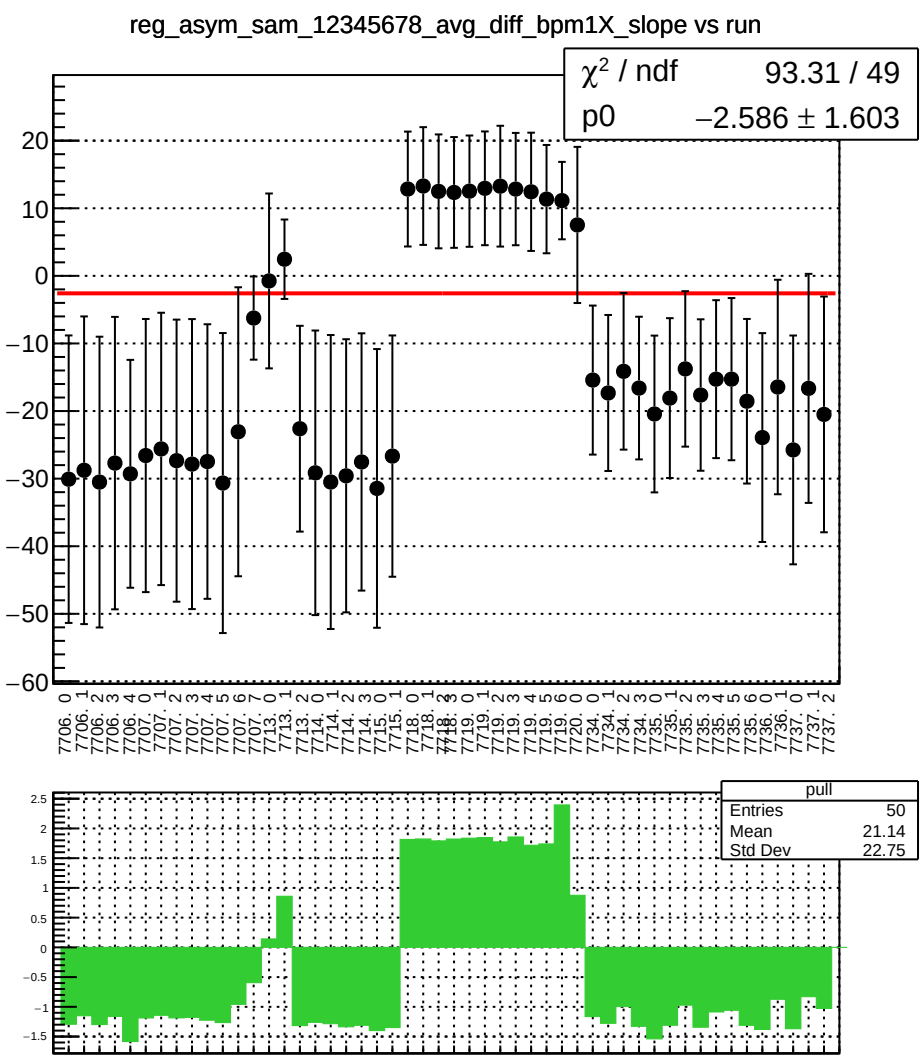

pull1D
Entries 50
Mean −0.06377
Std Dev 0.2408

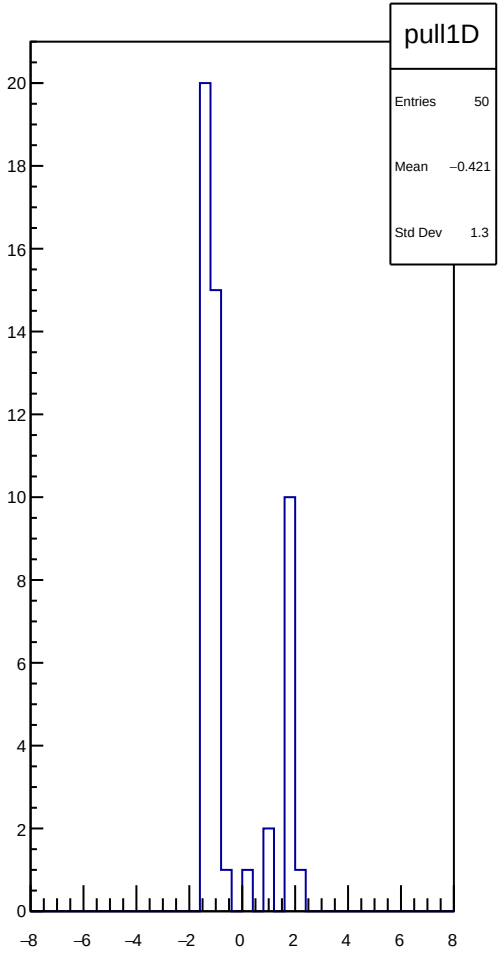

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 41.97 / 49
p0 21.63 ± 0.4998
pull
Entries 50
Mean 14.91
Std Dev 17.83

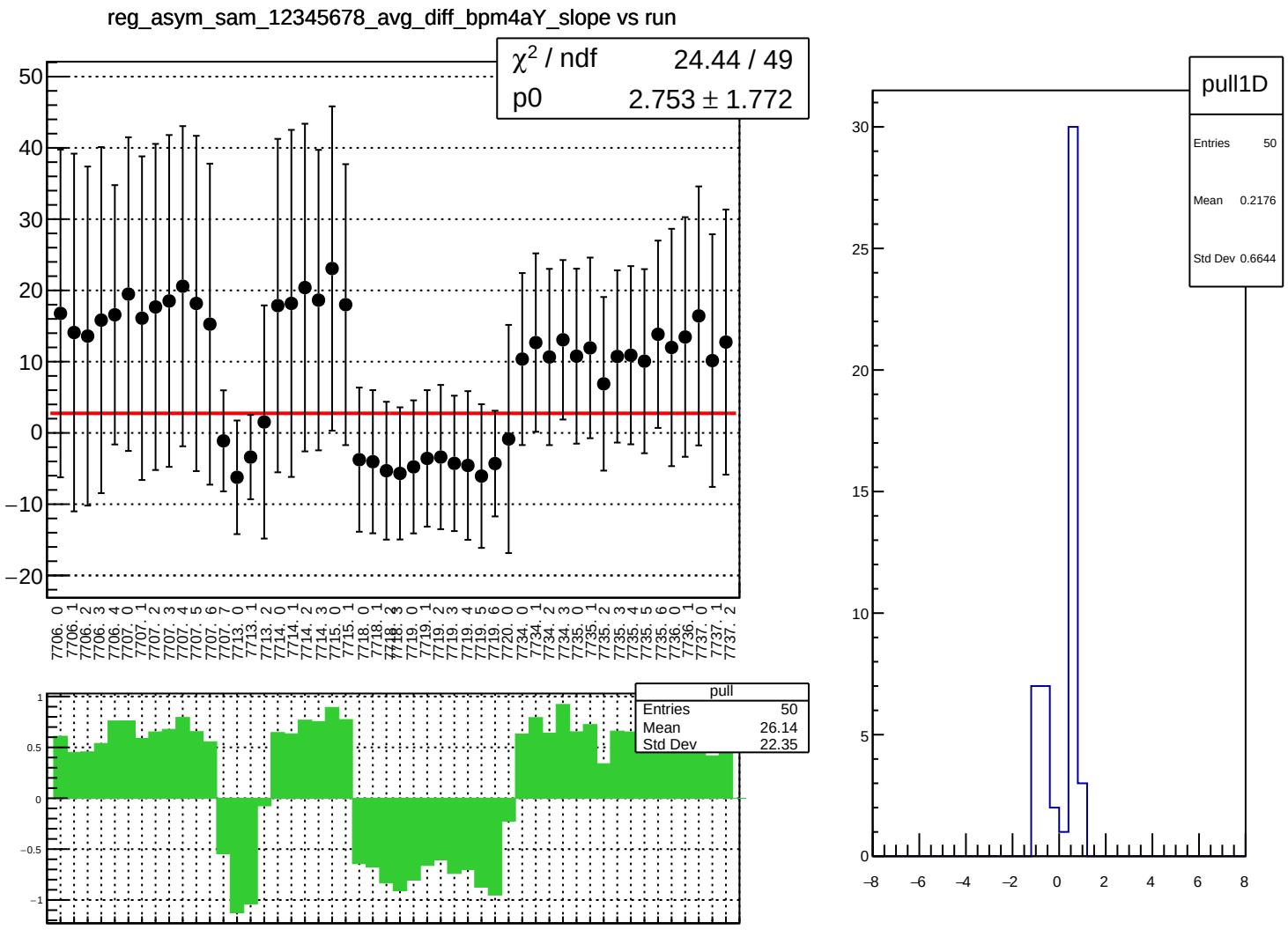

pull1D
Entries 50
Mean −0.3613
Std Dev 0.842

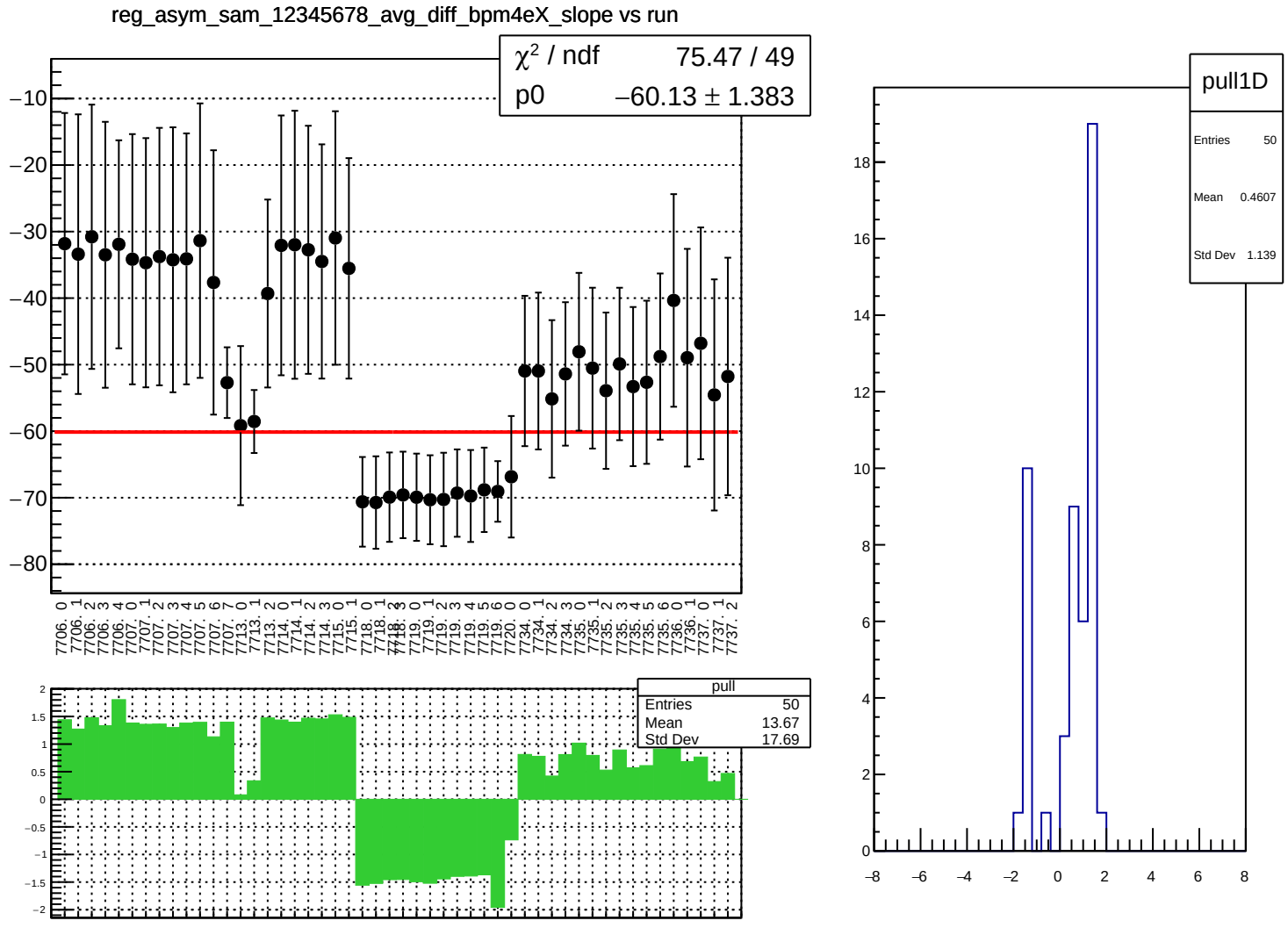

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.168 / 49
p0 −8.182 ± 0.9736
pull
Entries 50
Mean 32.56
Std Dev 22.86
pull1D
Entries 50
Mean 0.05432
Std Dev 0.2458

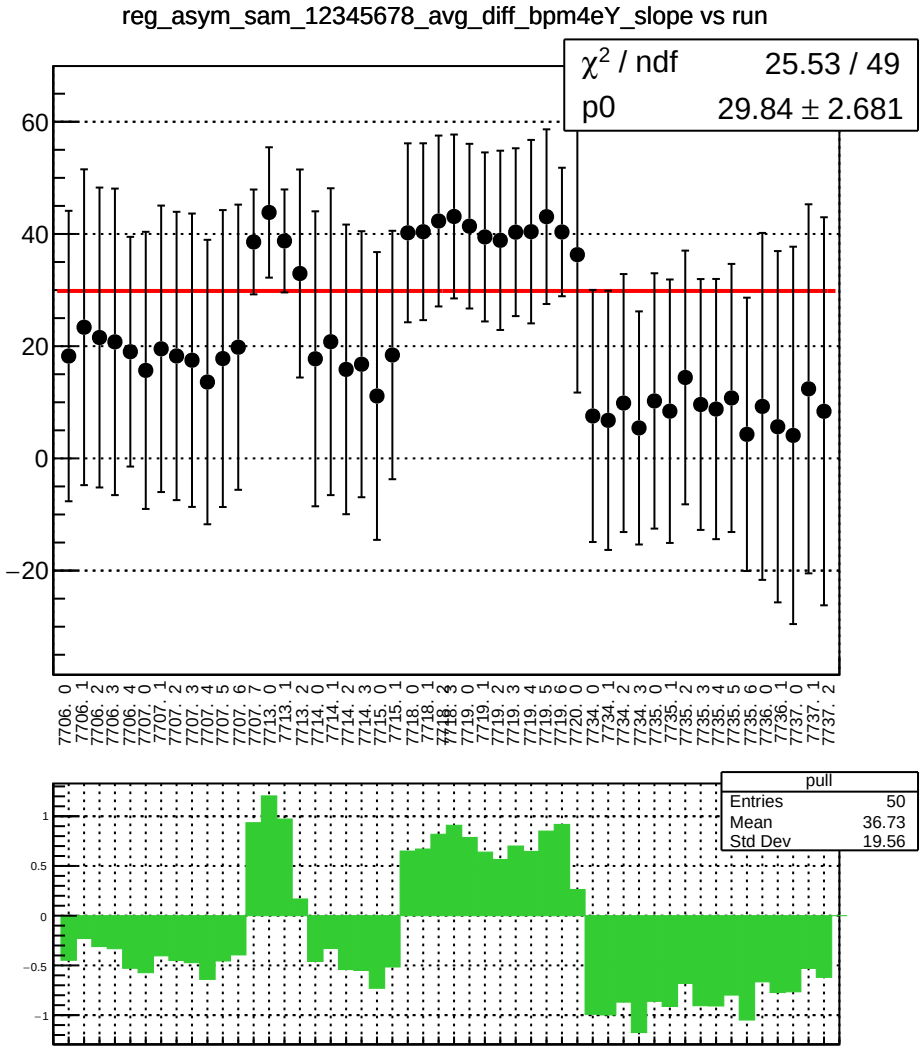

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 5.115 / 49
p0 0.1333 ± 0.03975
pull
Entries 50
Mean 104.7
Std Dev 77.53
pull1D
Entries 50
Mean 0.04216
Std Dev 0.317

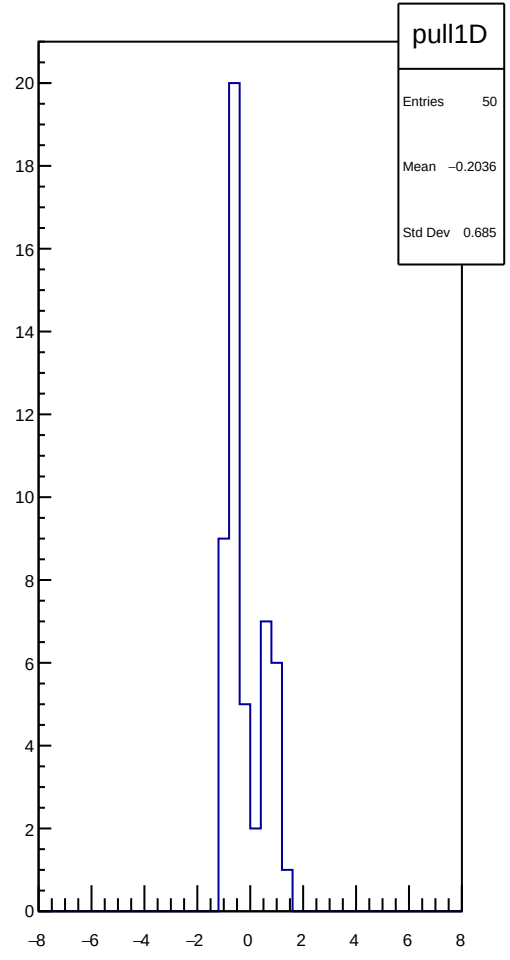

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 93.31 / 49
p0 −2.586 ± 1.603
pull
Entries 50
Mean 21.14
Std Dev 22.75

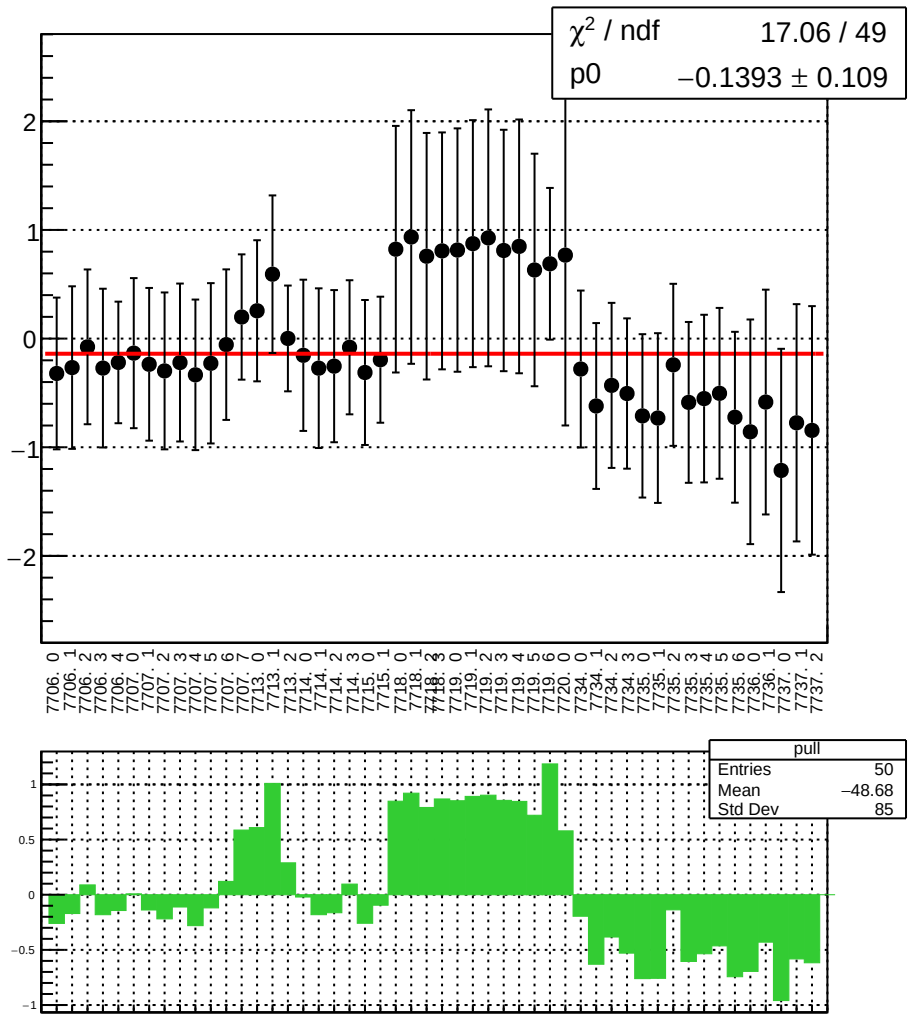

pull1D
Entries 50
Mean −0.421
Std Dev 1.3

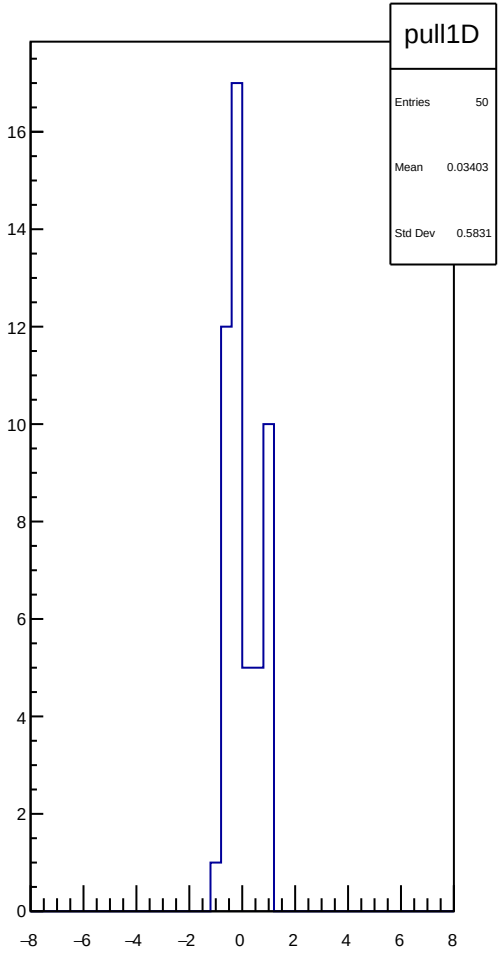

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.44 / 49
p0 2.753 ± 1.772
pull
Entries 50
Mean 26.14
Std Dev 22.35
pull1D
Entries 50
Mean 0.2176
Std Dev 0.6644

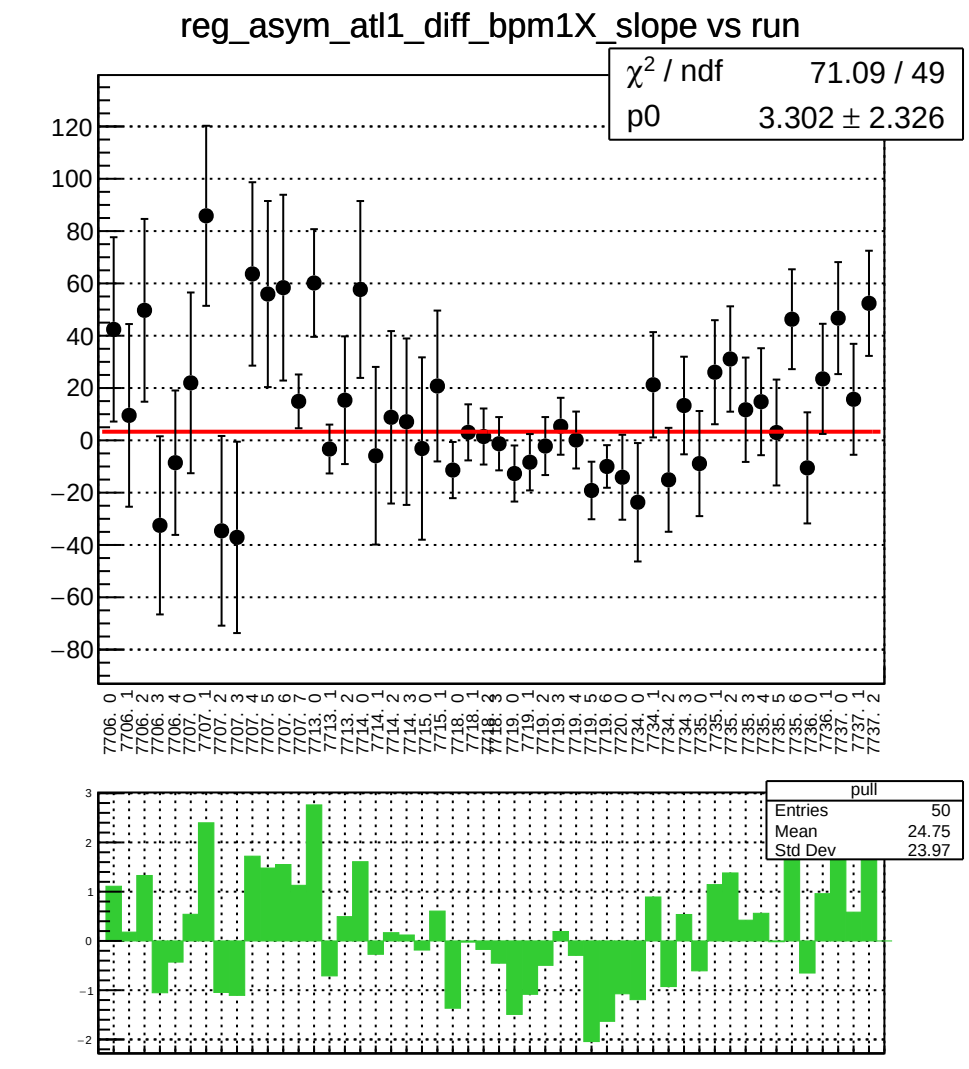

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 75.47 / 49
p0 −60.13 ± 1.383
−10
−20
−30
−40
−50
−60
−70
−80
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 13.67
Std Dev 17.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean 0.4607
Std Dev 1.139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

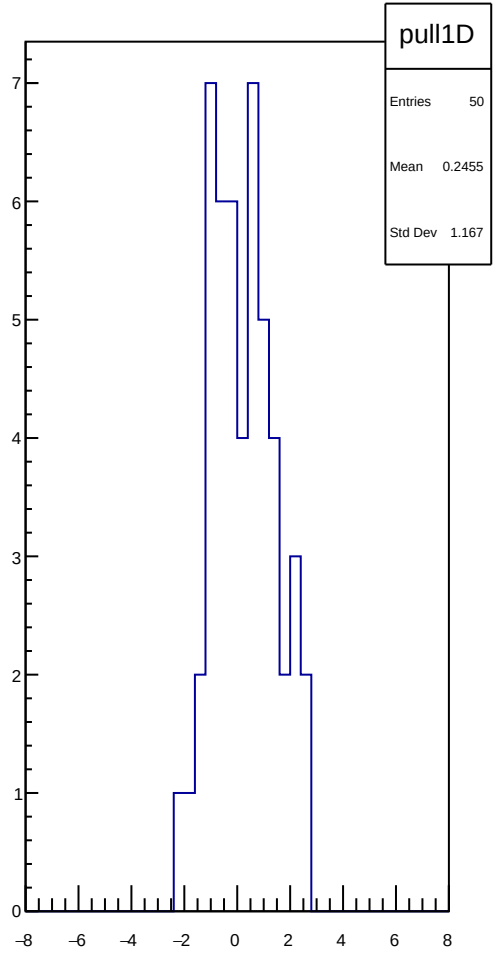

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.53 / 49
p0 29.84 ± 2.681
pull
Entries 50
Mean 36.73
Std Dev 19.56

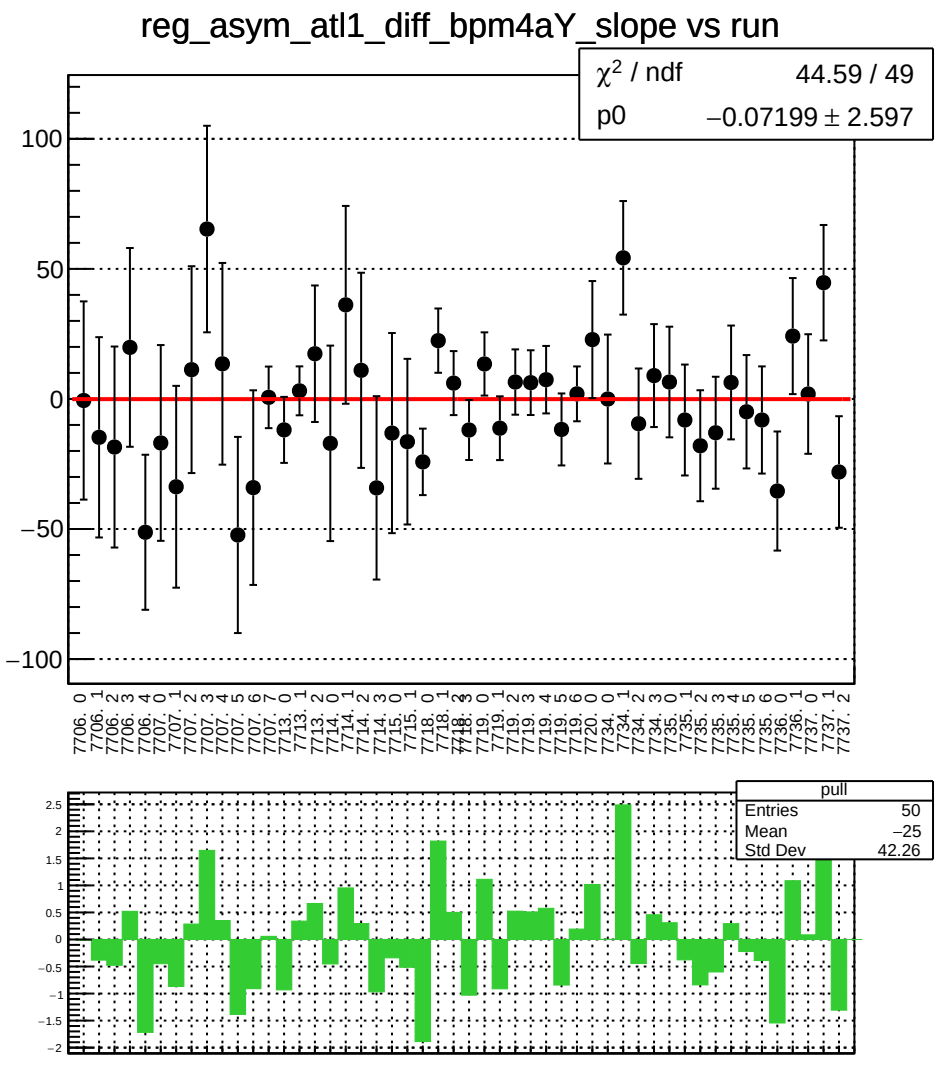

pull1D
Entries 50
Mean −0.2036
Std Dev 0.685

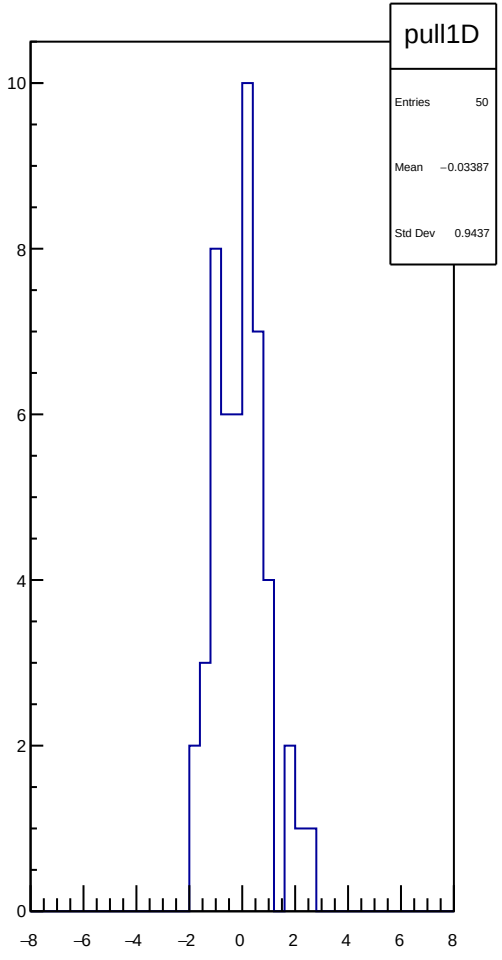

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 17.06 / 49
p0 −0.1393 ± 0.109
pull
Entries 50
Mean −48.68
Std Dev 85

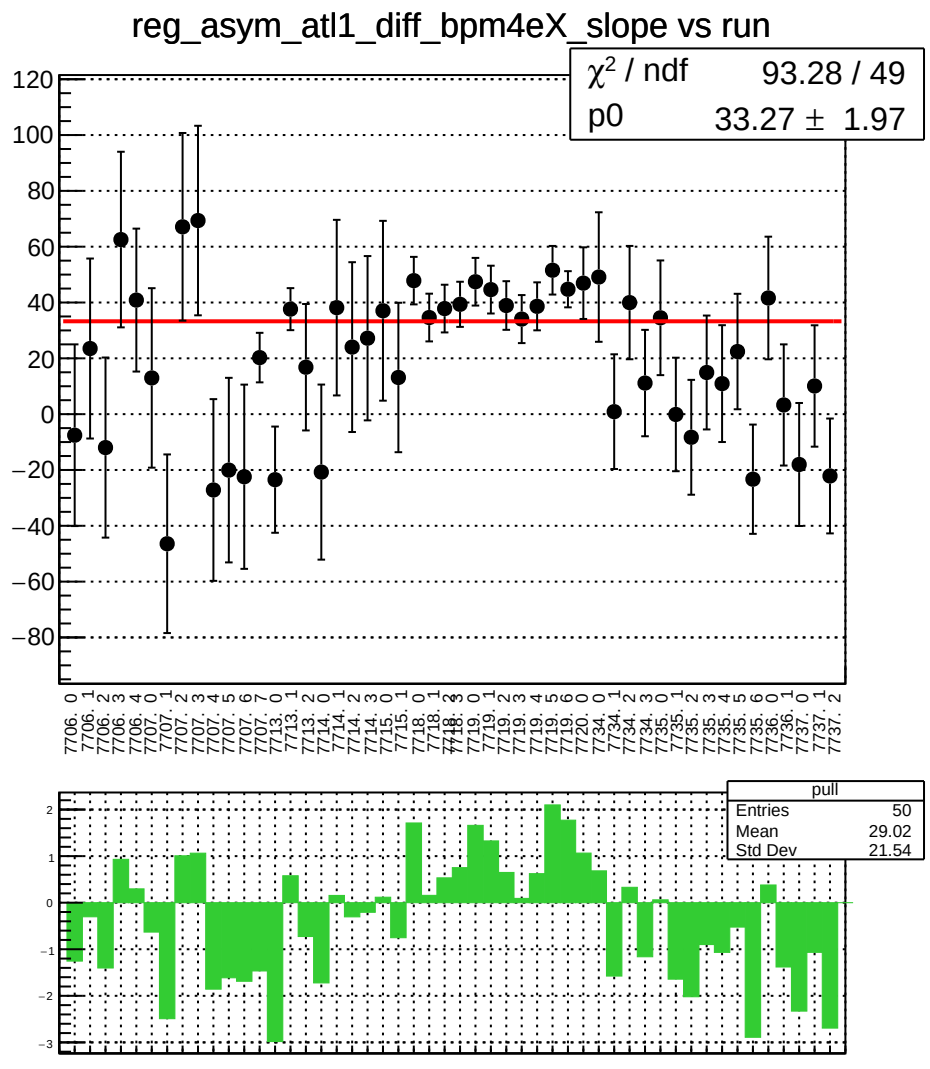

pull1D
Entries 50
Mean 0.03403
Std Dev 0.5831

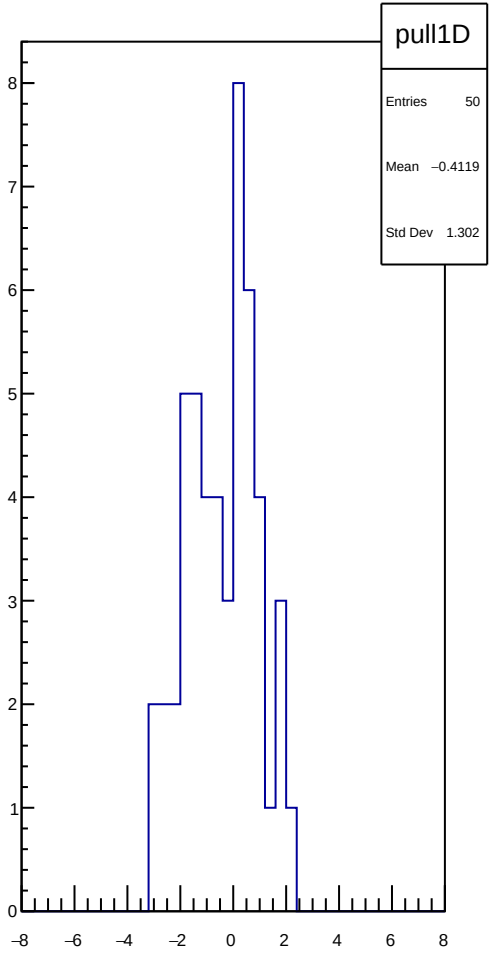

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 71.09 / 49
p0 3.302 ± 2.326
pull
Entries 50
Mean 24.75
Std Dev 23.97

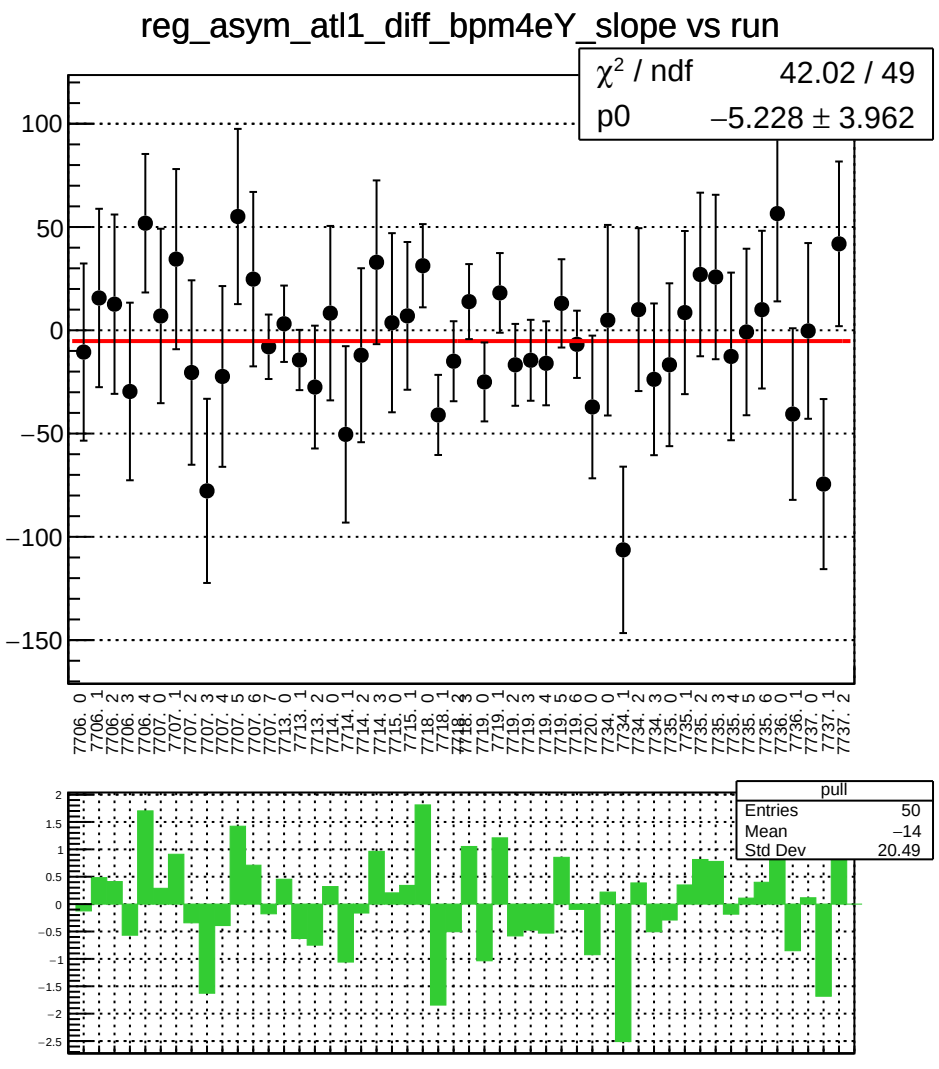

pull1D
Entries 50
Mean 0.2455
Std Dev 1.167

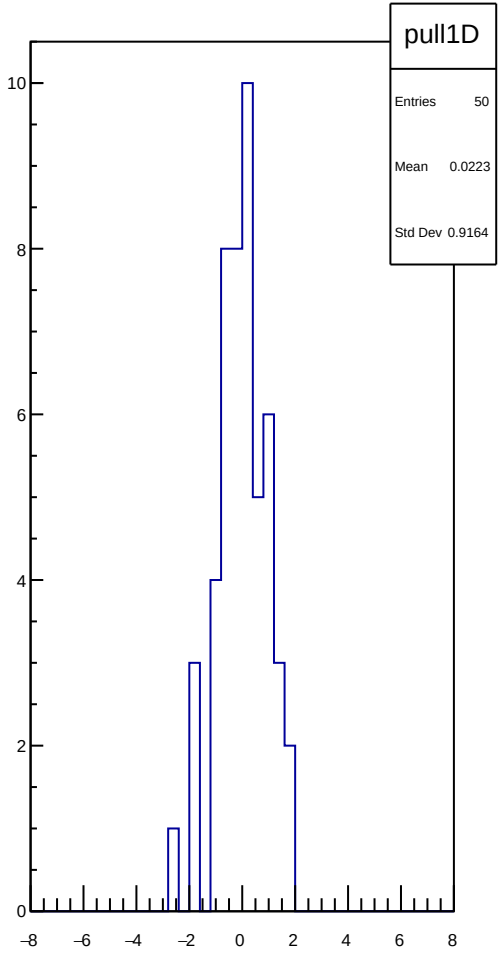

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 44.59 / 49
p0 −0.07199 ± 2.597
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −25
Std Dev 42.26
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

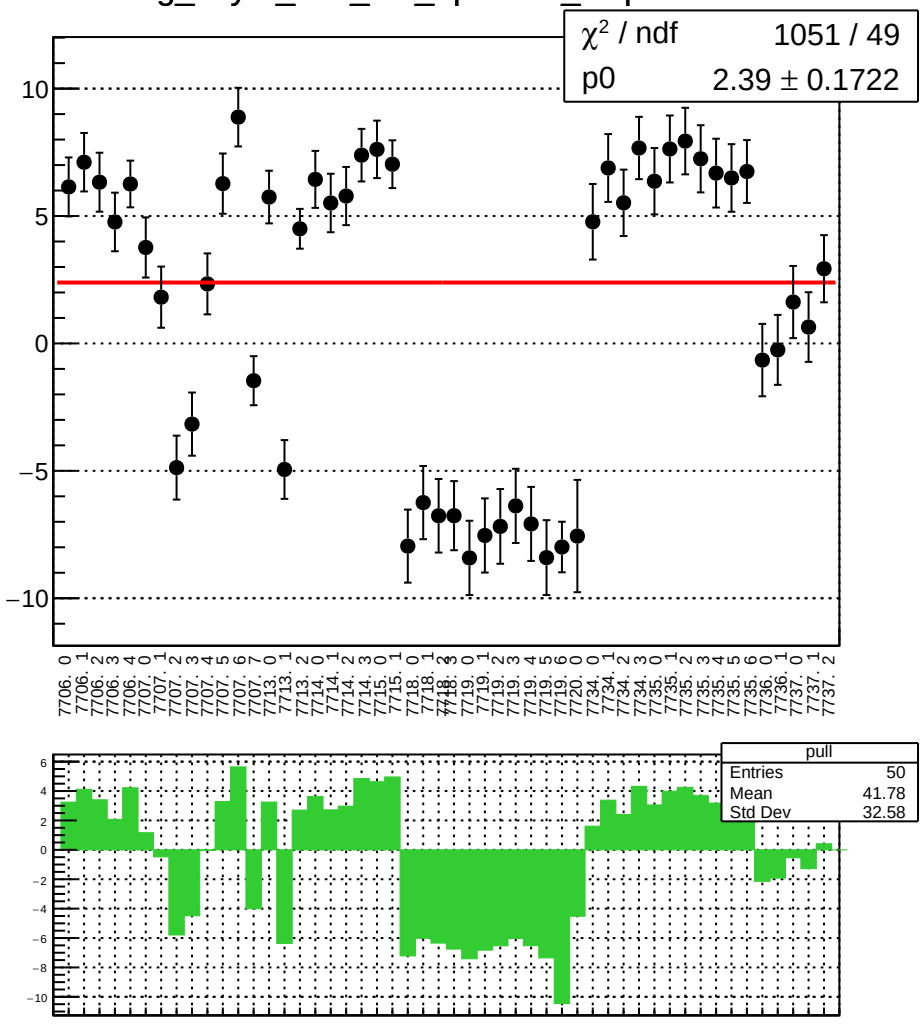

pull1D
Entries 50
Mean −0.03387
Std Dev 0.9437
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

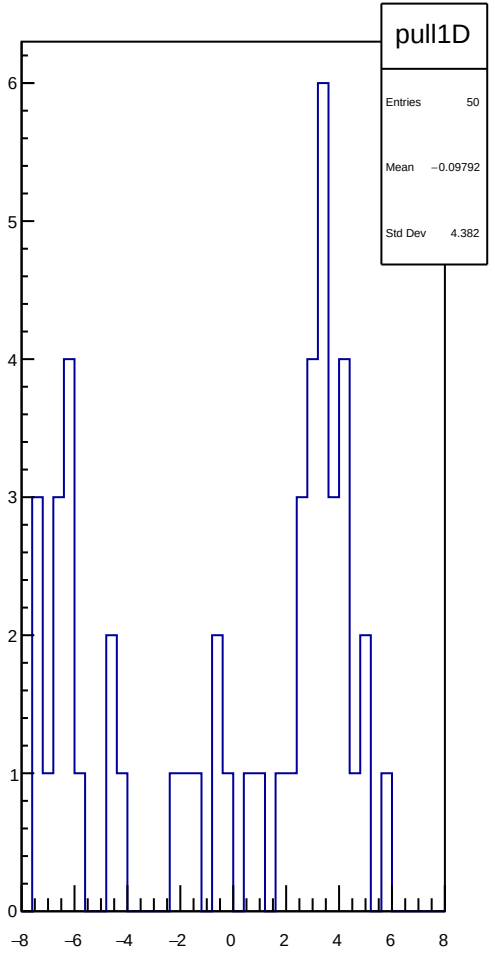

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 93.28 / 49
p0 33.27 ± 1.97
pull
Entries 50
Mean 29.02
Std Dev 21.54

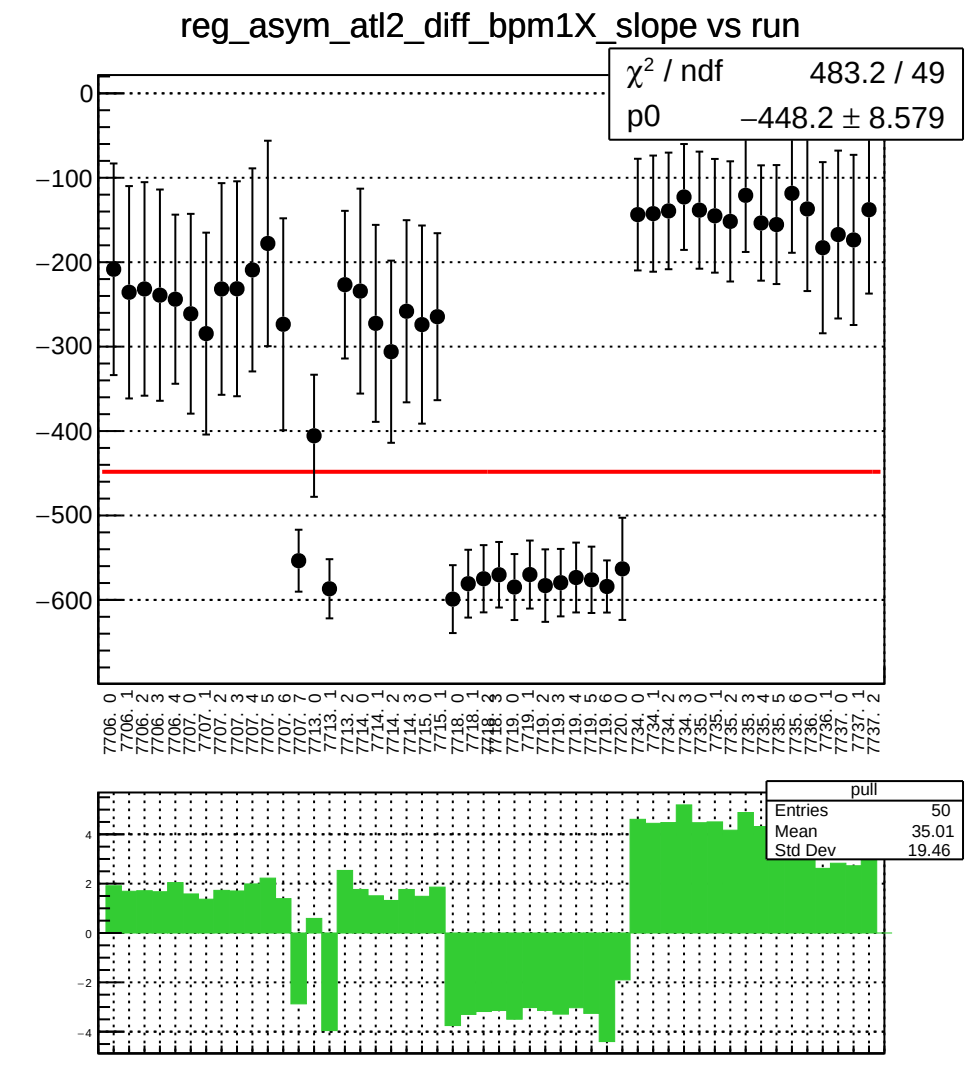

pull1D
Entries 50
Mean −0.4119
Std Dev 1.302

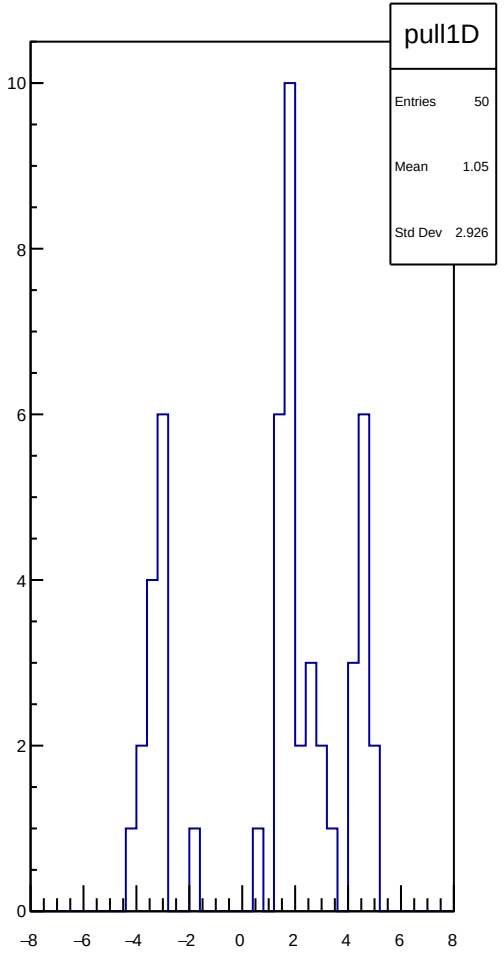

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 42.02 / 49
p0 −5.228 ± 3.962
pull
Entries 50
Mean −14
Std Dev 20.49

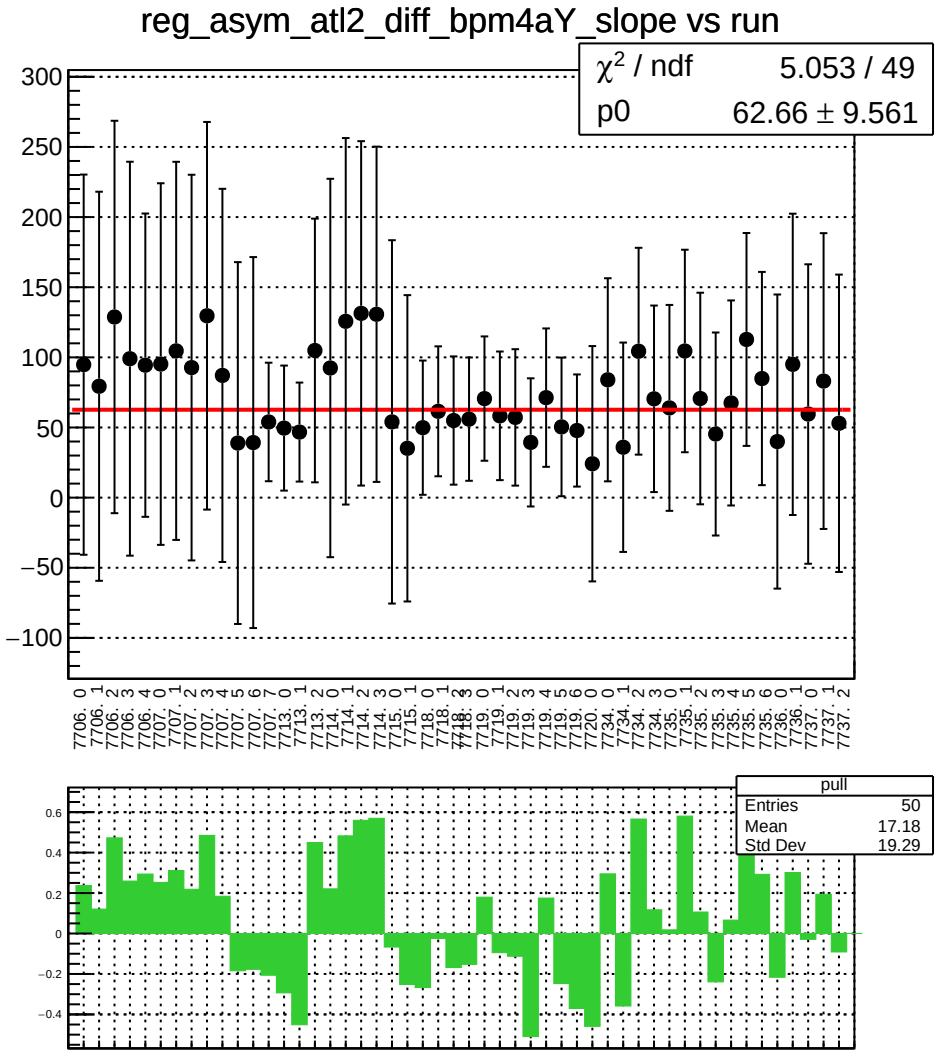

pull1D
Entries 50
Mean 0.0223
Std Dev 0.9164

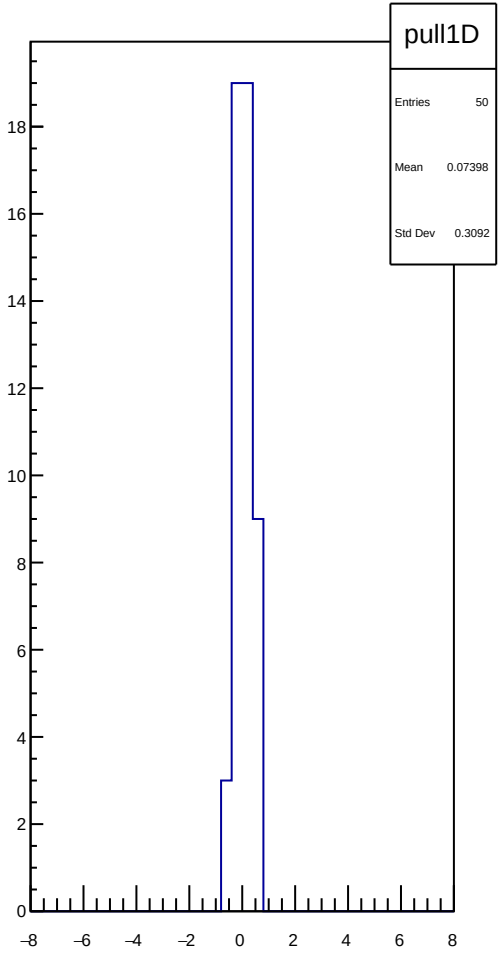

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 1051 / 49
p0 2.39 ± 0.1722
pull
Entries 50
Mean 41.78
Std Dev 32.58

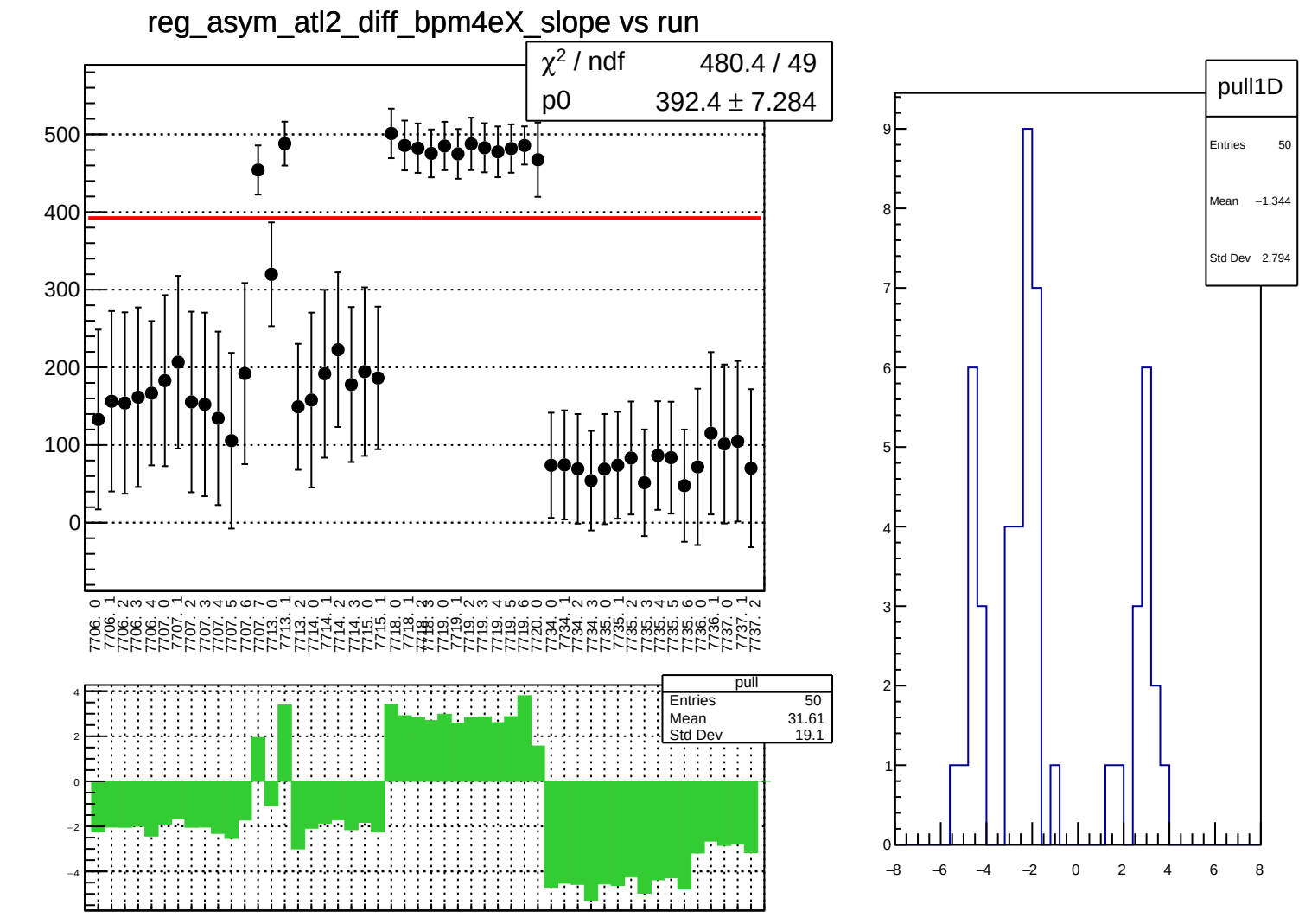

pull1D
Entries 50
Mean −0.09792
Std Dev 4.382

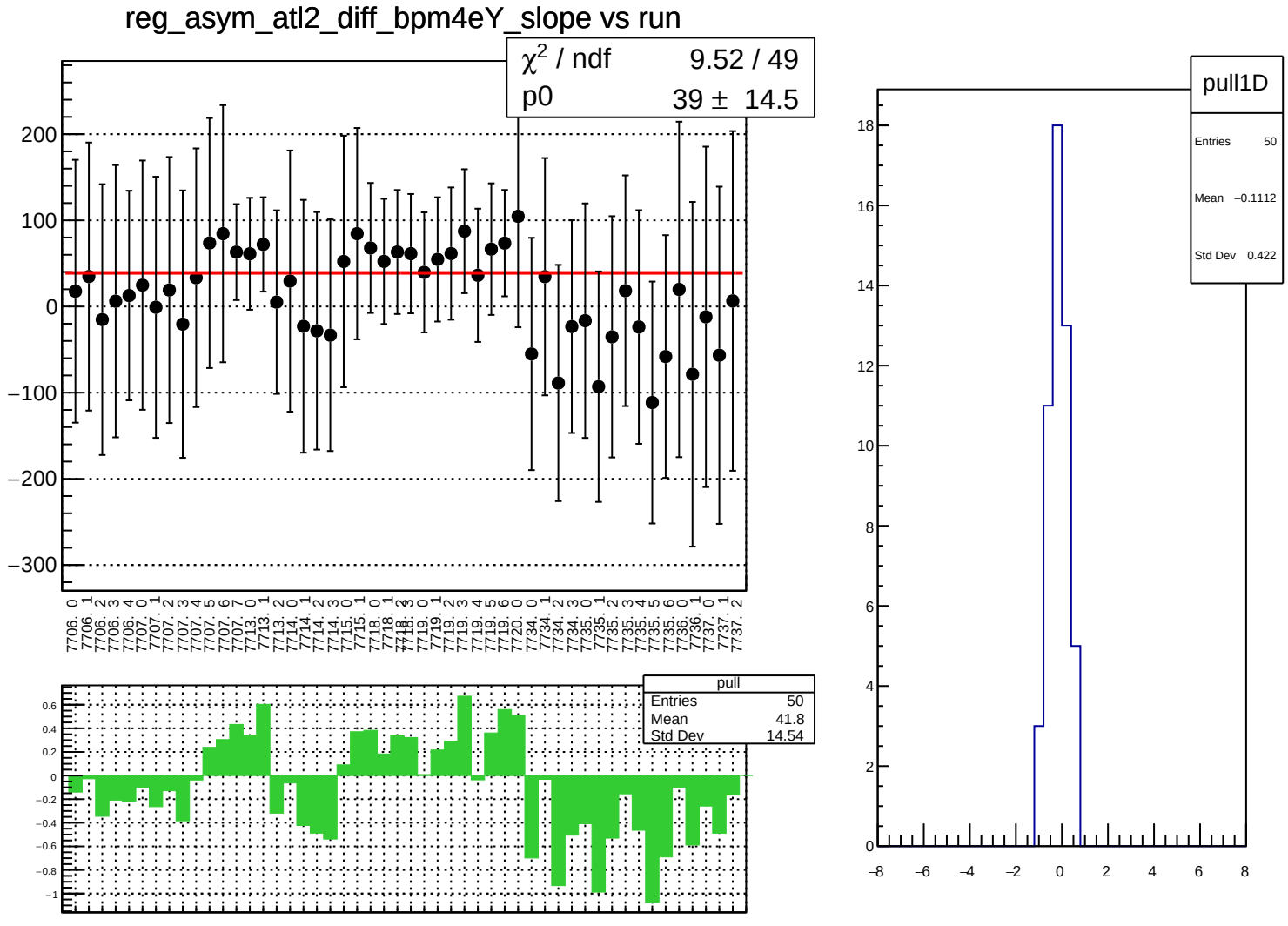

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 483.2 / 49
p0 −448.2 ± 8.579
pull
Entries 50
Mean 35.01
Std Dev 19.46

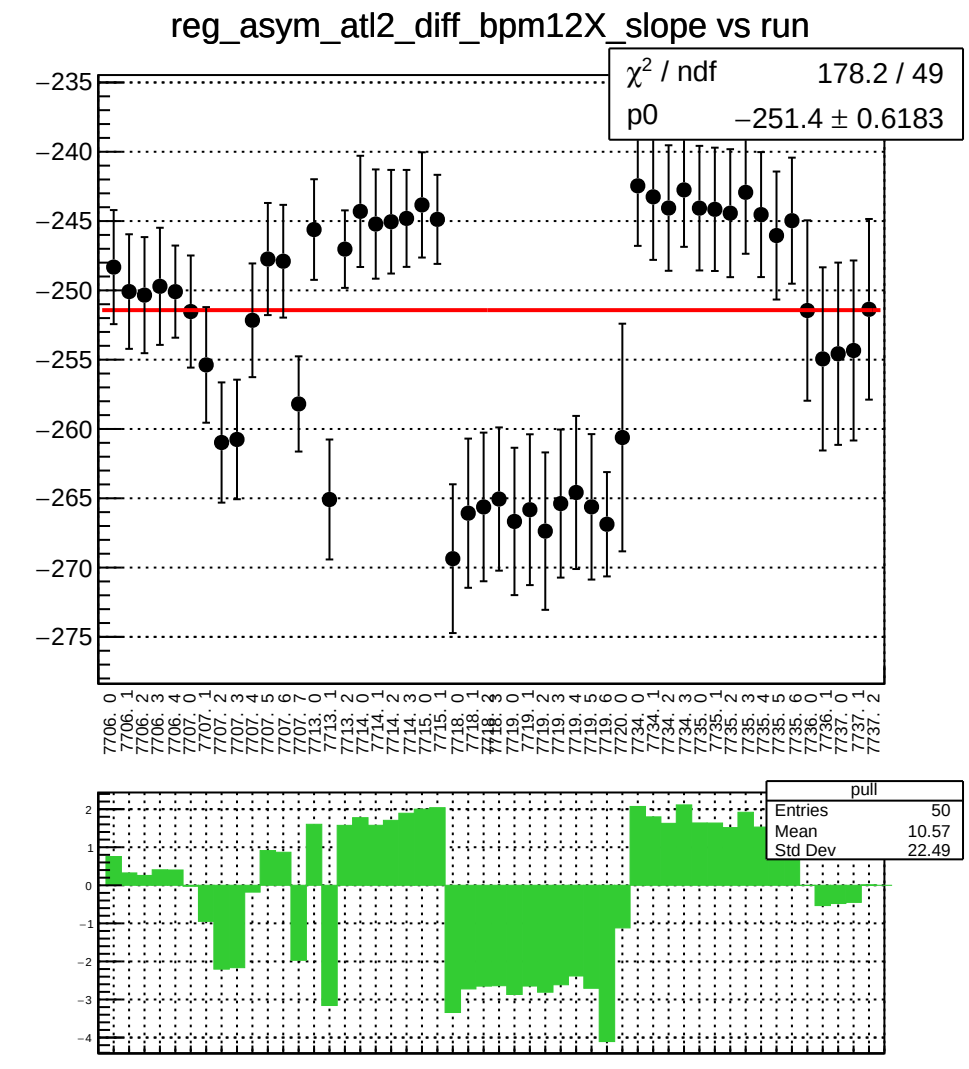

pull1D
Entries 50
Mean 1.05
Std Dev 2.926

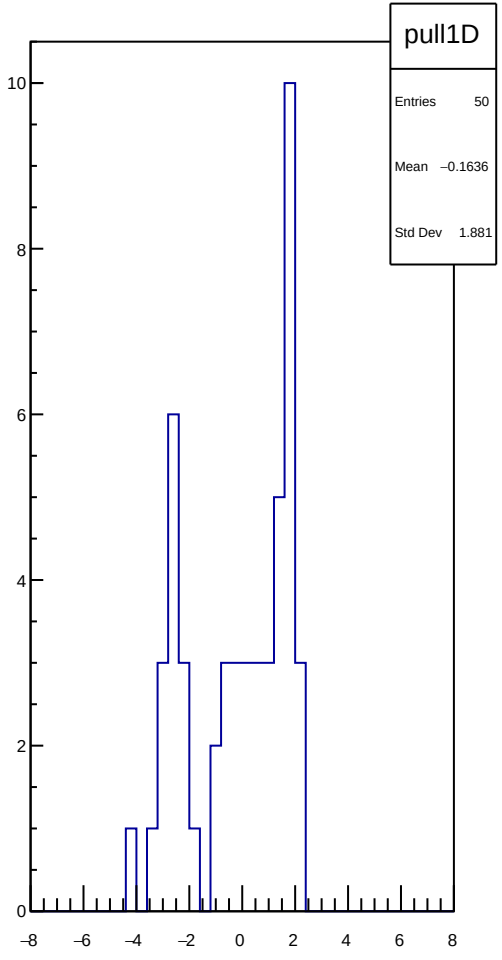

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.053 / 49
p0 62.66 ± 9.561
pull
Entries 50
Mean 17.18
Std Dev 19.29

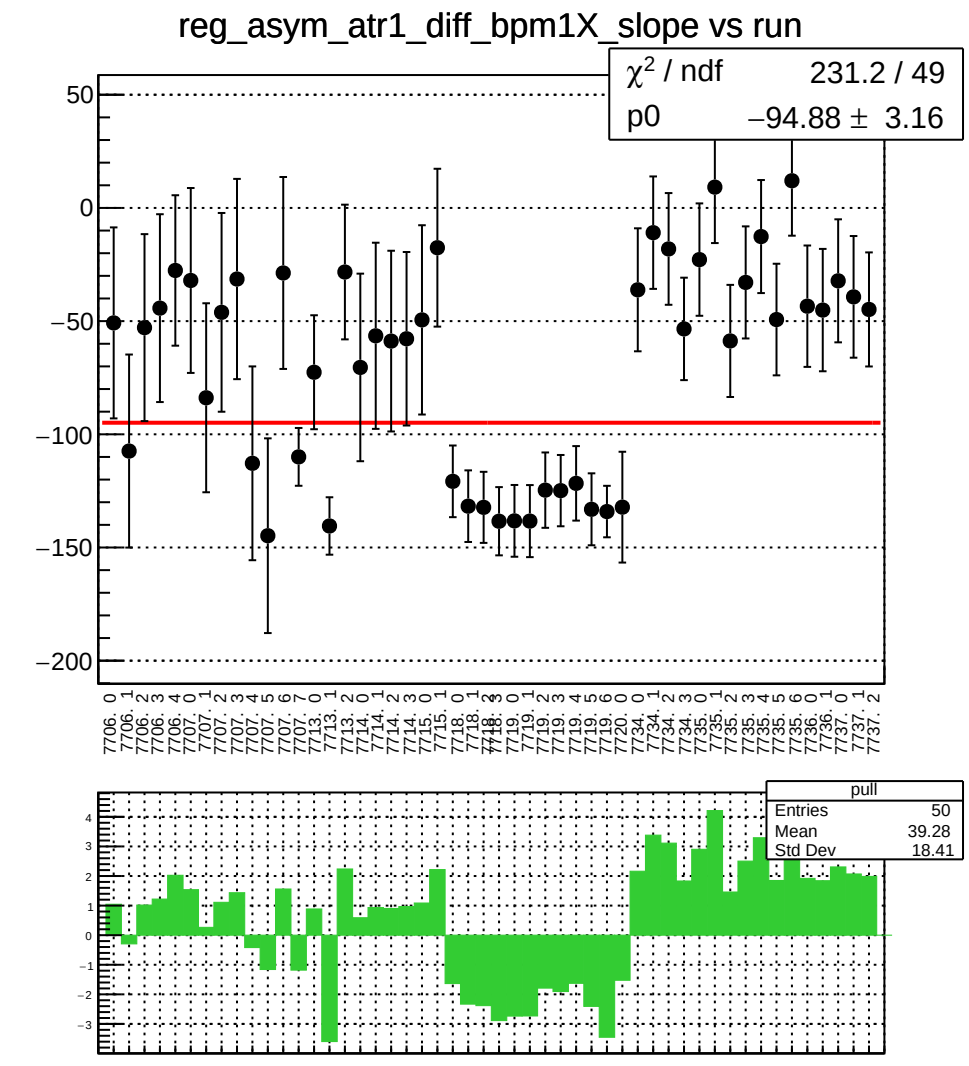

pull1D
Entries 50
Mean 0.07398
Std Dev 0.3092

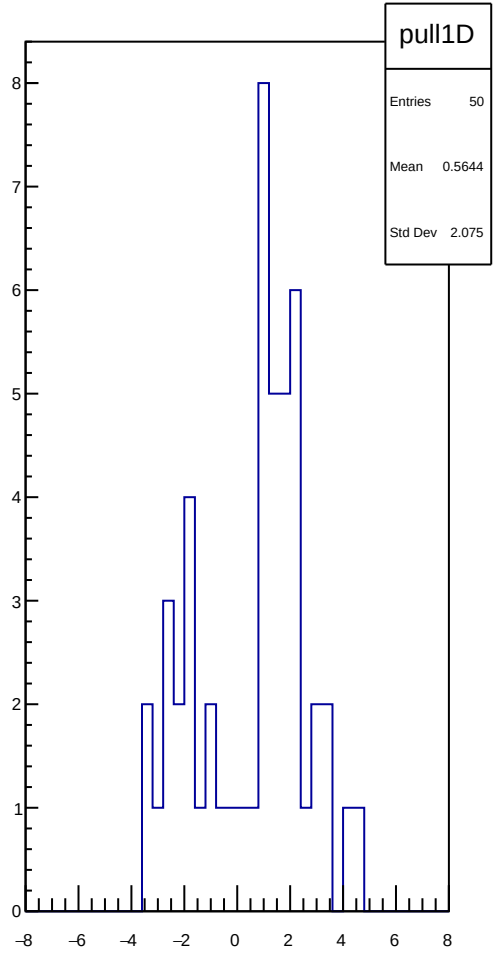

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 480.4 / 49
p0 392.4 ± 7.284
pull
Entries 50
Mean 31.61
Std Dev 19.1
pull1D
Entries 50
Mean −1.344
Std Dev 2.794

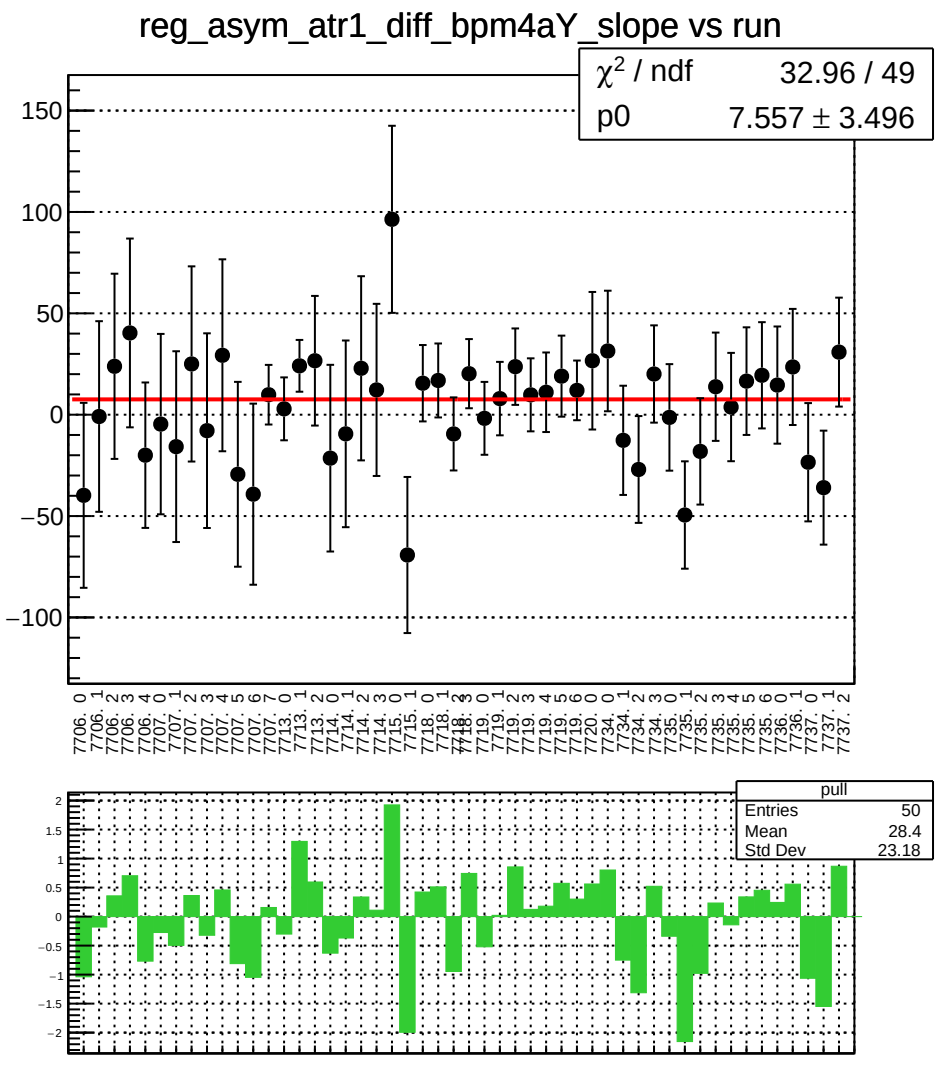

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.52 / 49
p0 39 ± 14.5
pull
Entries 50
Mean 41.8
Std Dev 14.54
pull1D
Entries 50
Mean −0.1112
Std Dev 0.422

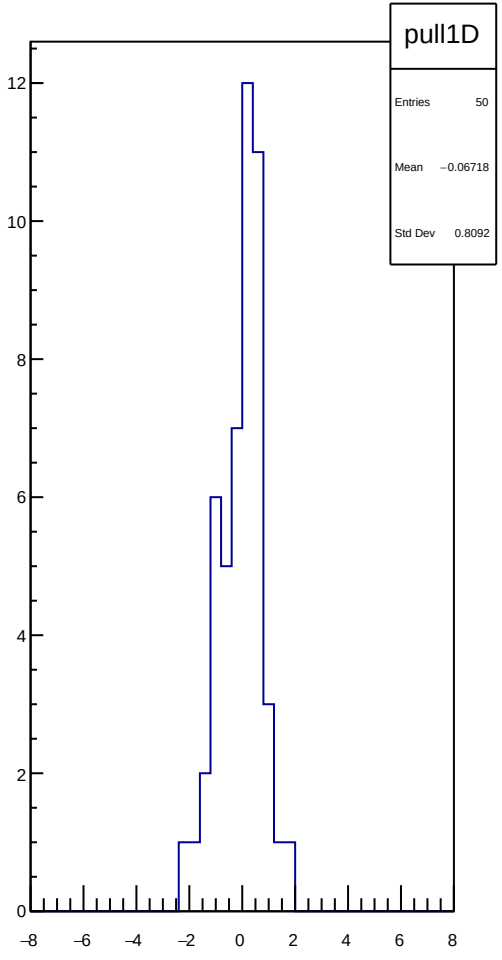

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 178.2 / 49
p0 −251.4 ± 0.6183
pull
Entries 50
Mean 10.57
Std Dev 22.49

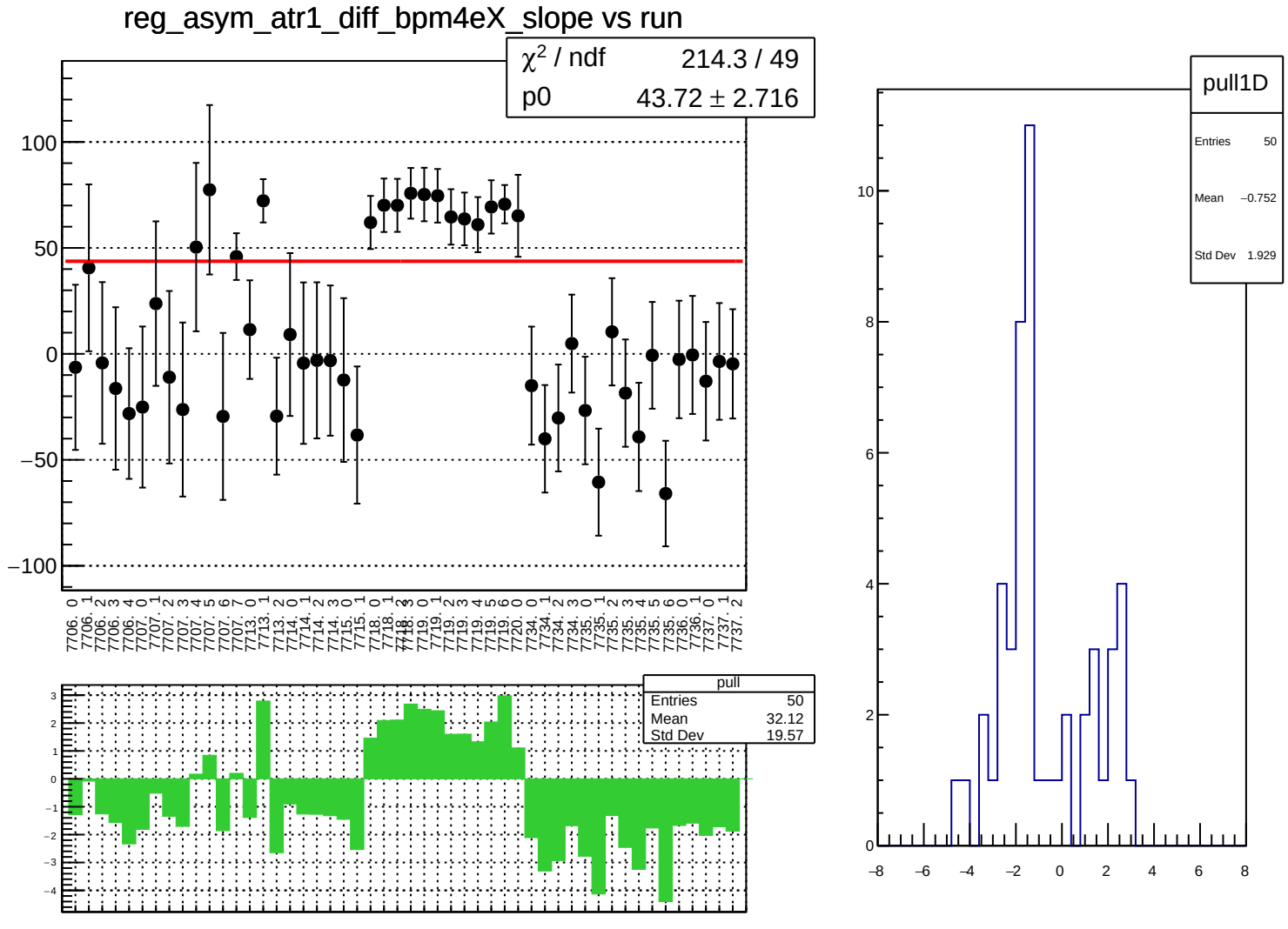

pull1D
Entries 50
Mean −0.1636
Std Dev 1.881

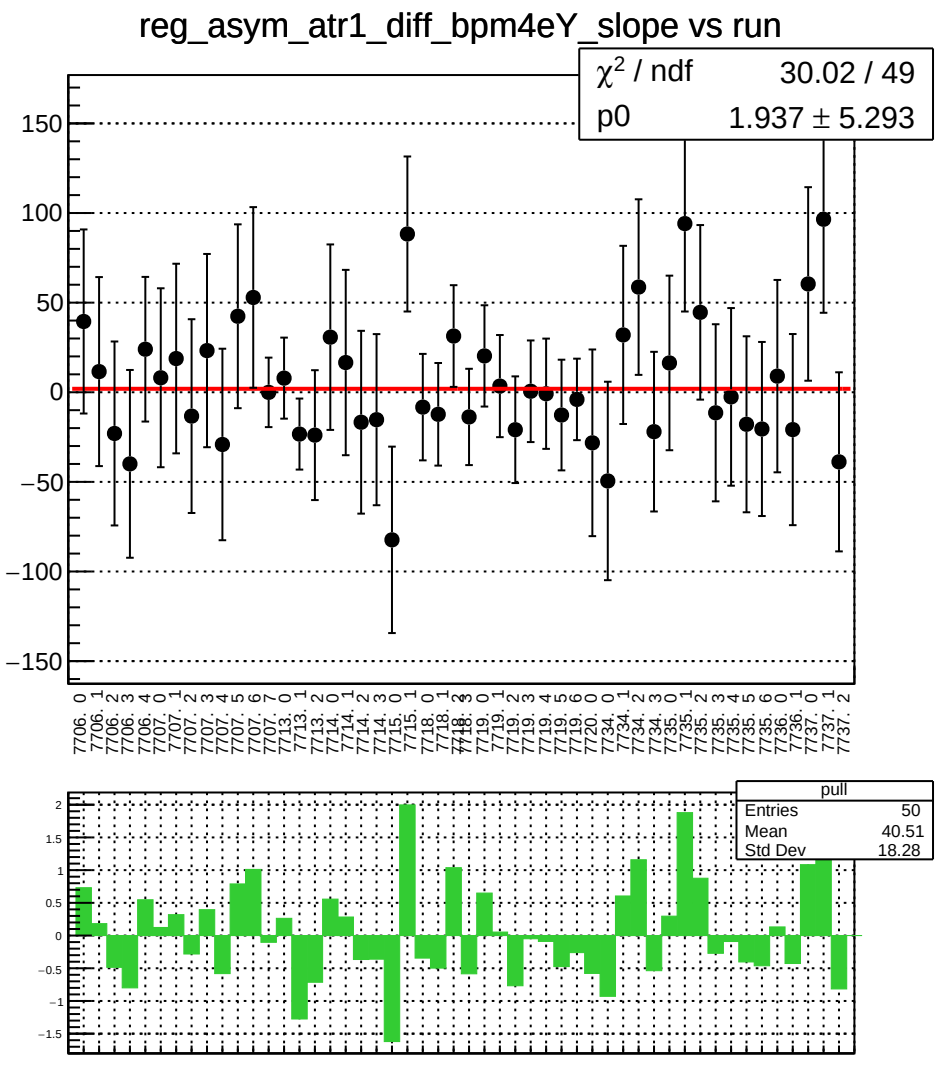

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 231.2 / 49
p0 −94.88 ± 3.16
pull
Entries 50
Mean 39.28
Std Dev 18.41

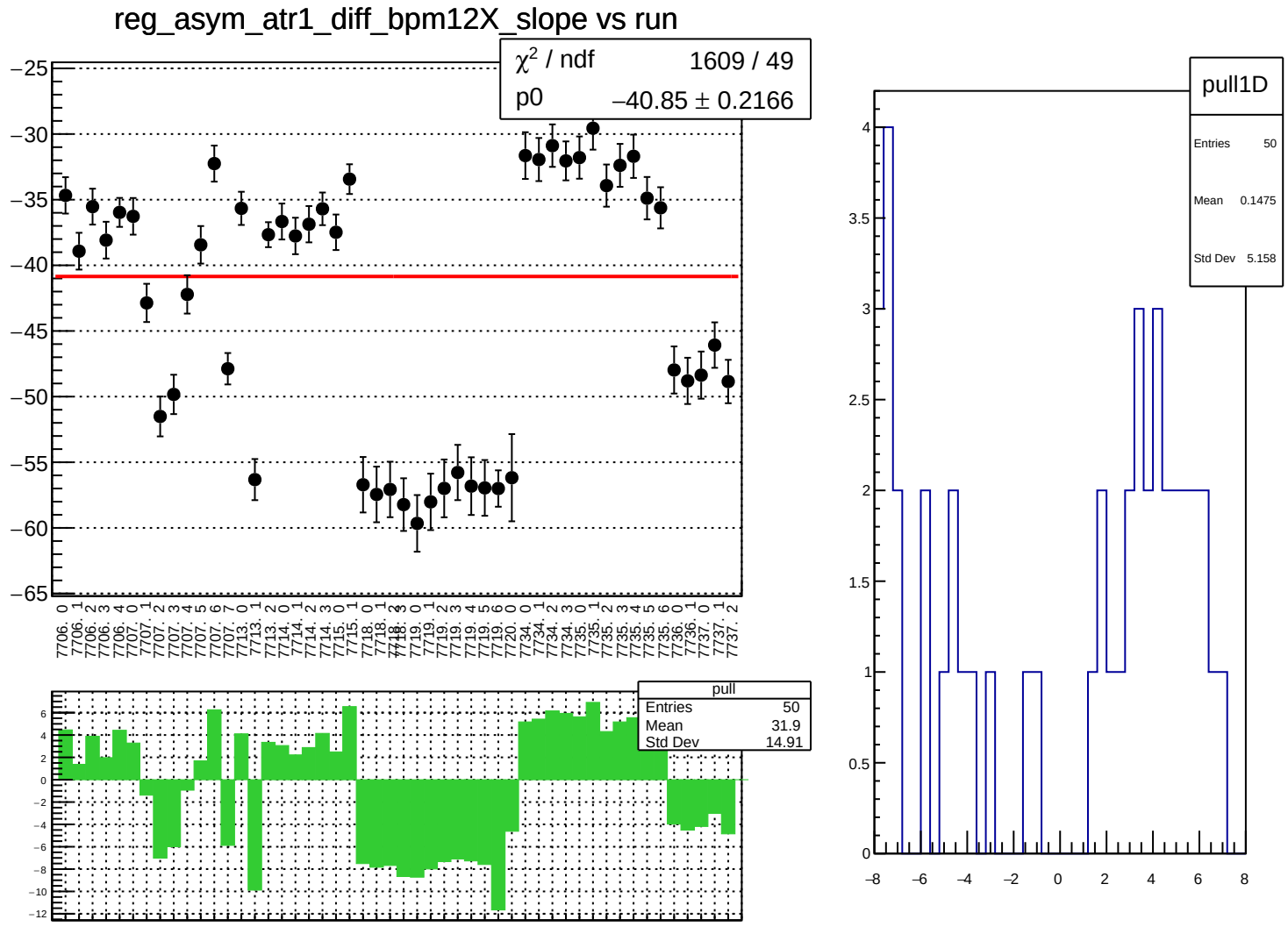

pull1D
Entries 50
Mean 0.5644
Std Dev 2.075

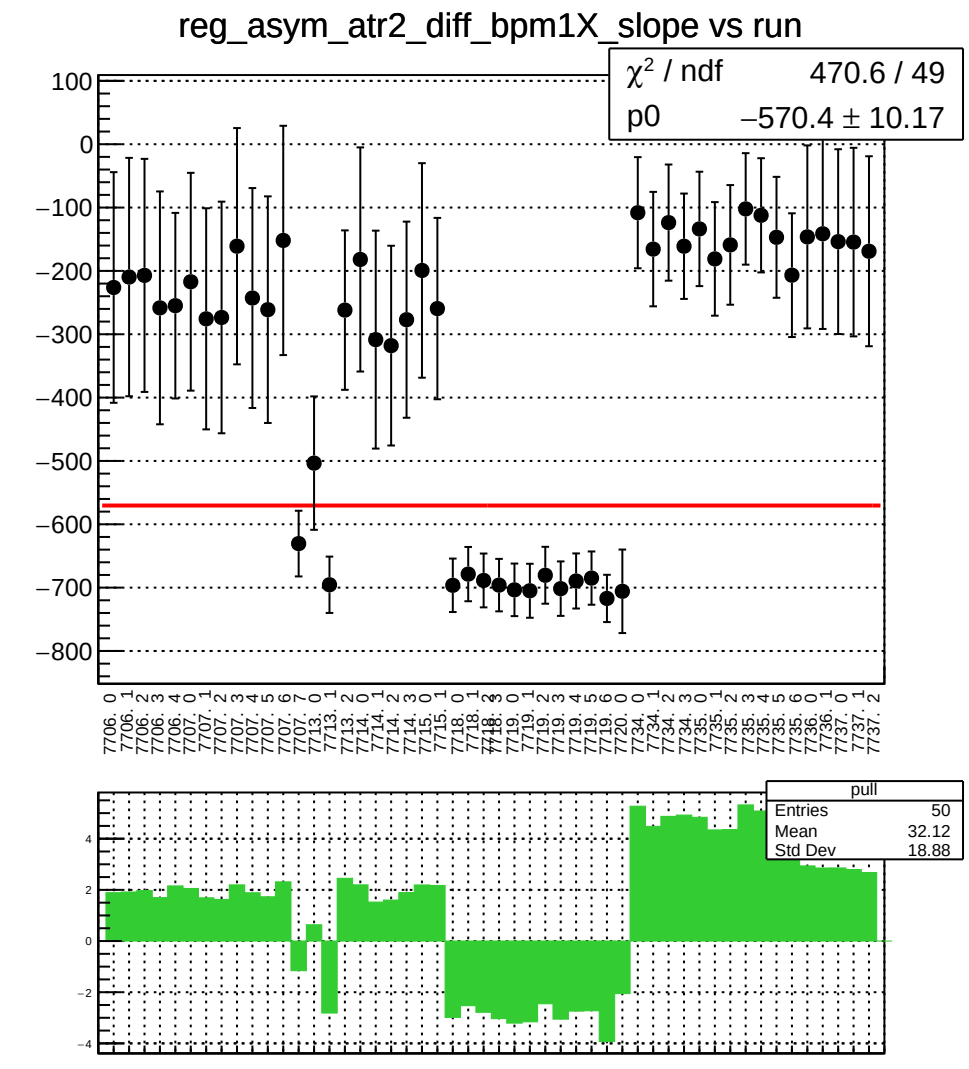

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 32.96 / 49
p0 7.557 ± 3.496
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 28.4
Std Dev 23.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

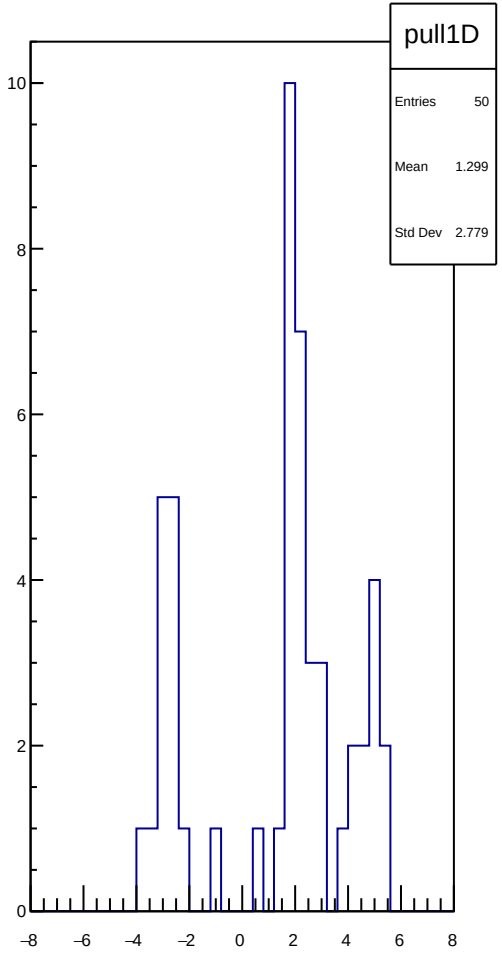

pull1D
Entries 50
Mean −0.06718
Std Dev 0.8092
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

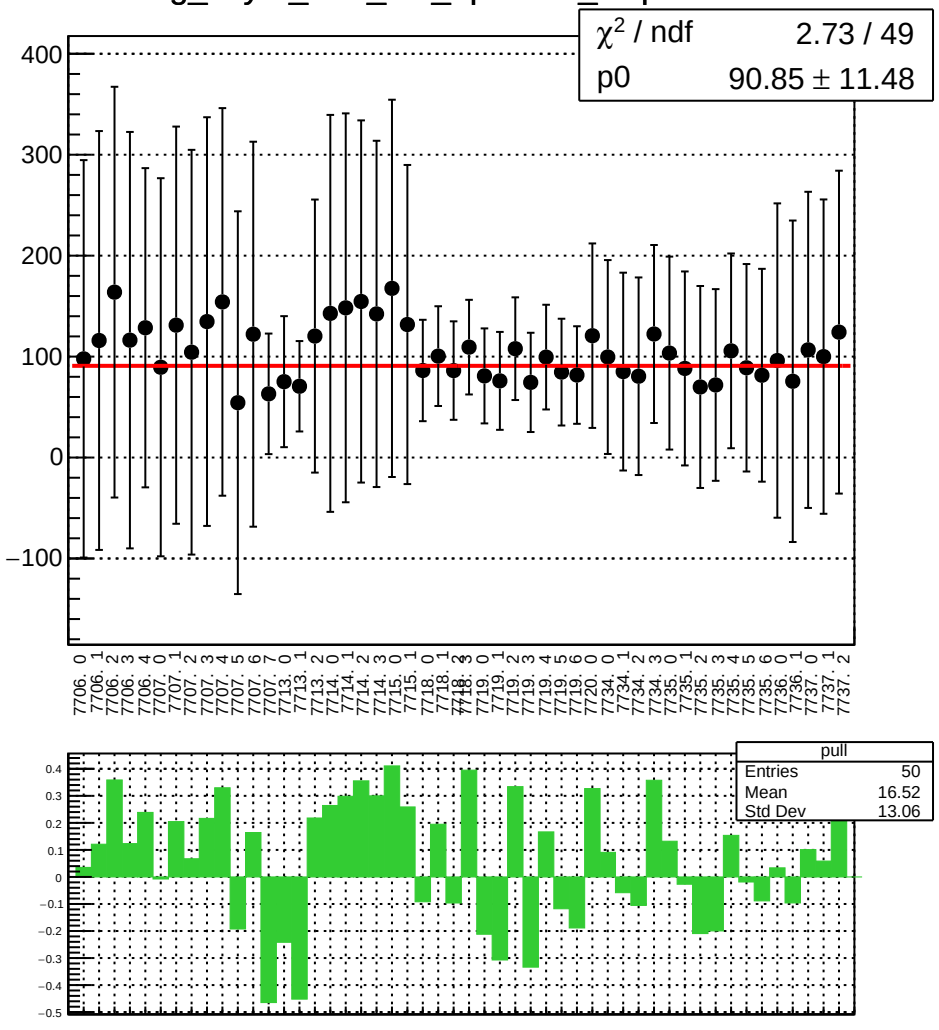

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 214.3 / 49
p0 43.72 ± 2.716
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 32.12
Std Dev 19.57
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 50
Mean −0.752
Std Dev 1.929
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

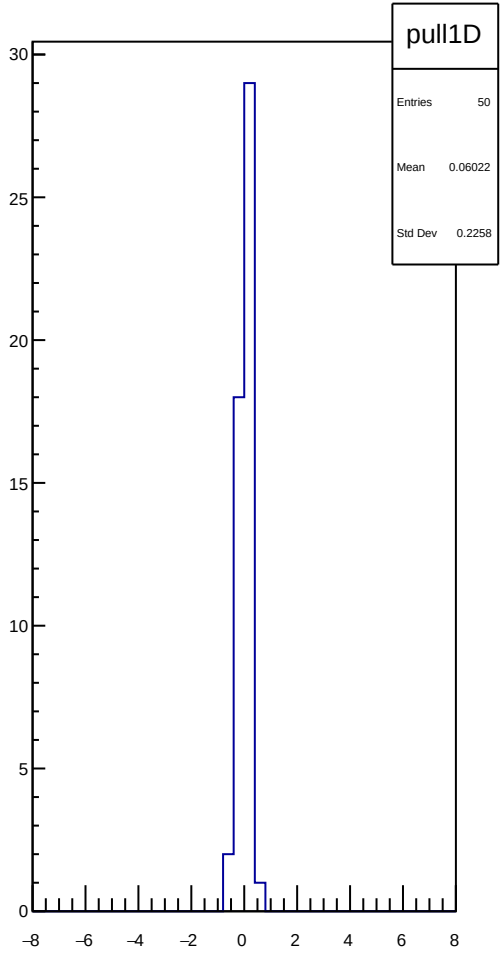

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 30.02 / 49
p0 1.937 ± 5.293
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 40.51
Std Dev 18.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.05218
Std Dev 0.7731
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

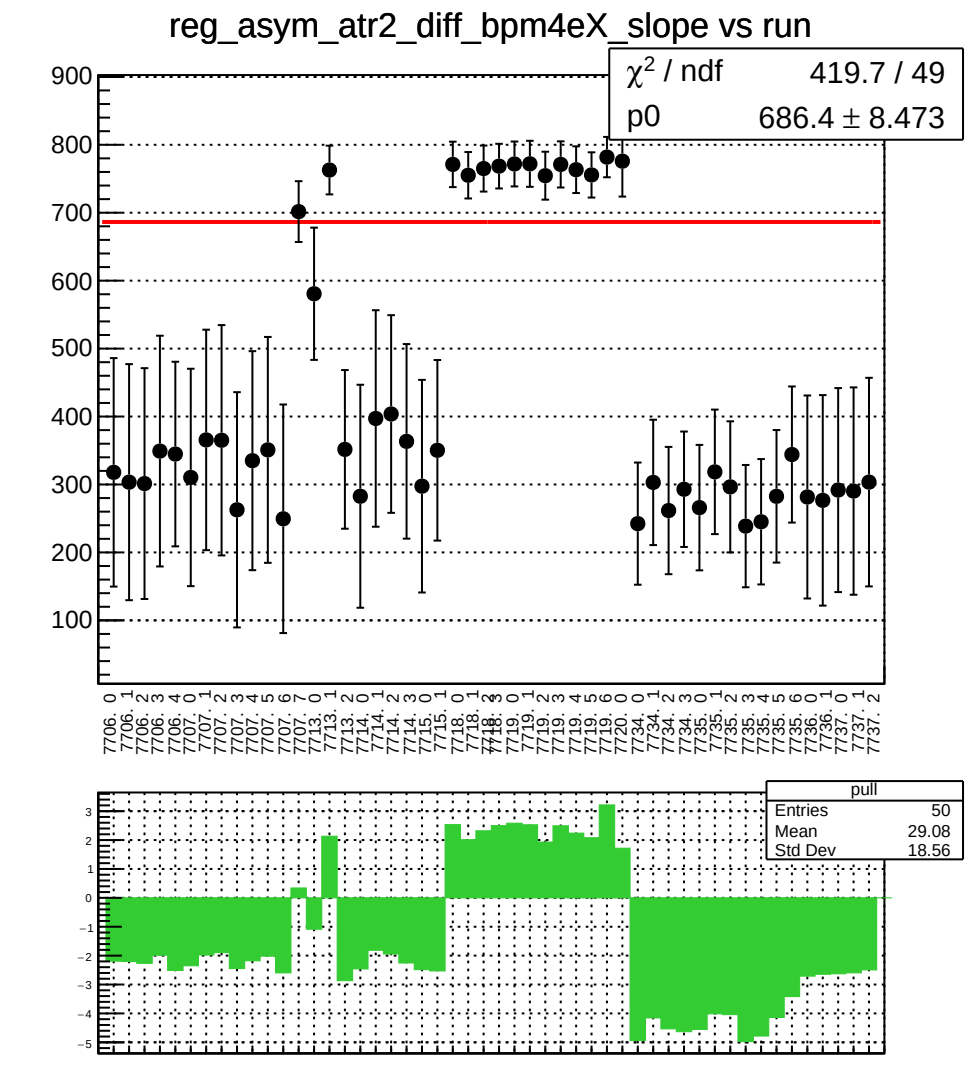

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1609 / 49
p0 −40.85 ± 0.2166
pull
Entries 50
Mean 31.9
Std Dev 14.91
pull1D
Entries 50
Mean 0.1475
Std Dev 5.158

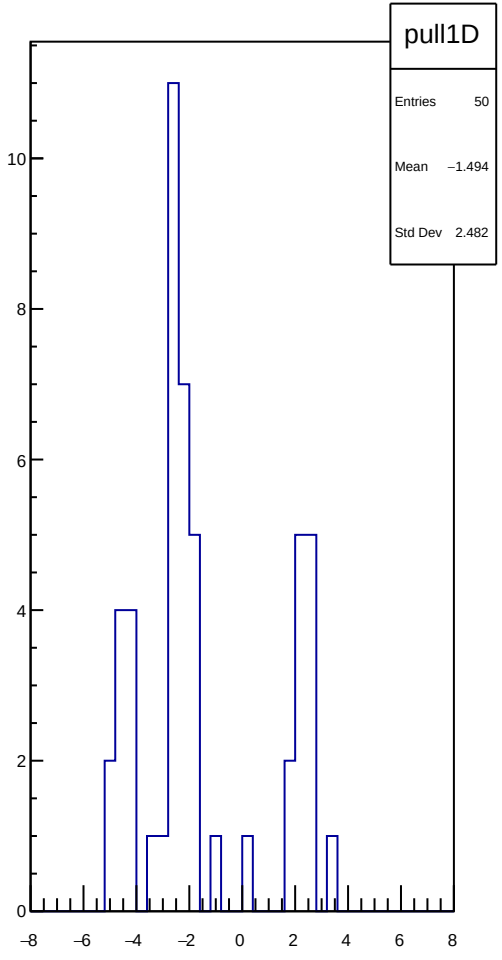

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 470.6 / 49
p0 −570.4 ± 10.17
pull
Entries 50
Mean 32.12
Std Dev 18.88

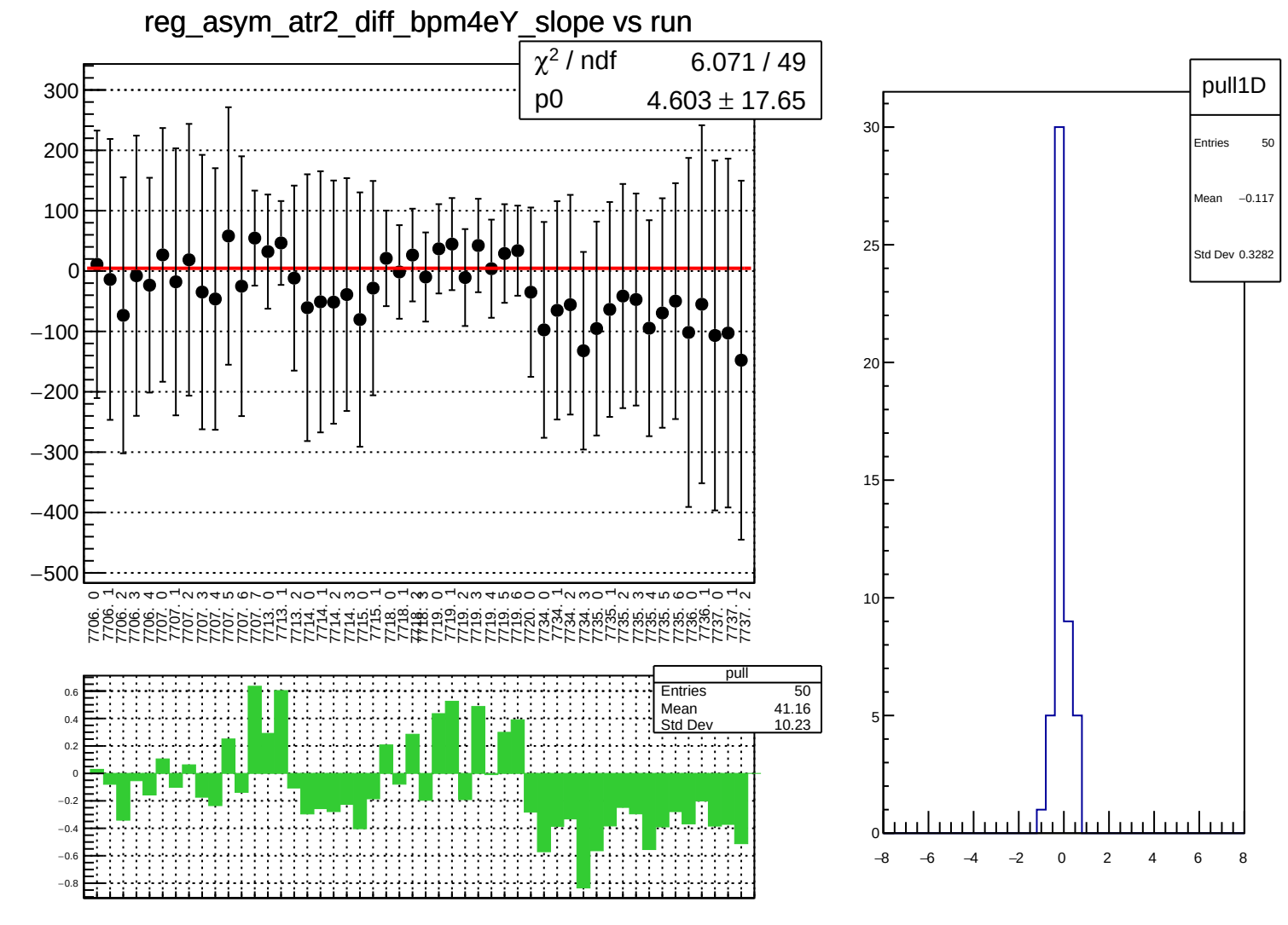

pull1D
Entries 50
Mean 1.299
Std Dev 2.779

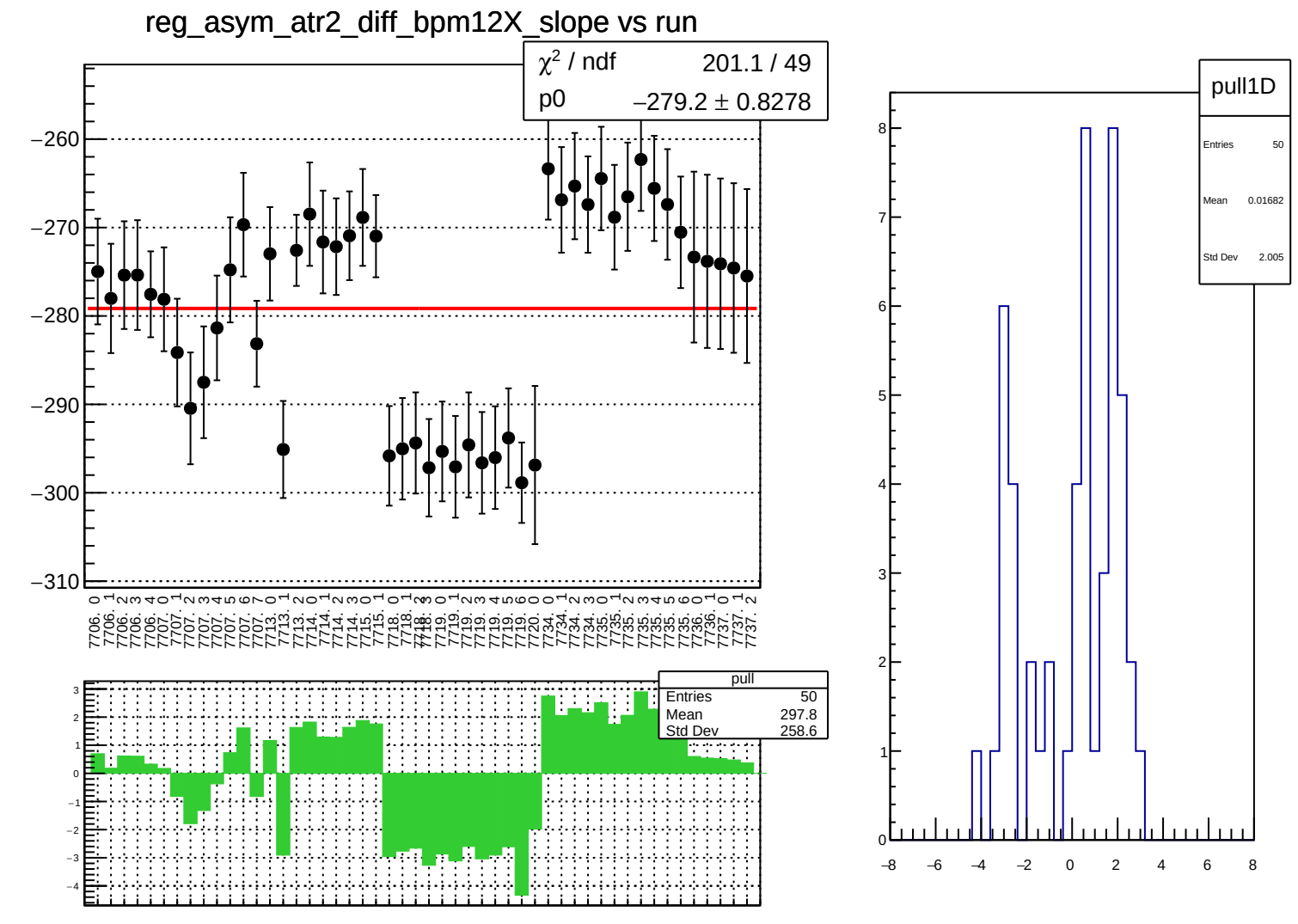

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 2.73 / 49
p0 90.85 ± 11.48
pull
Entries 50
Mean 16.52
Std Dev 13.06

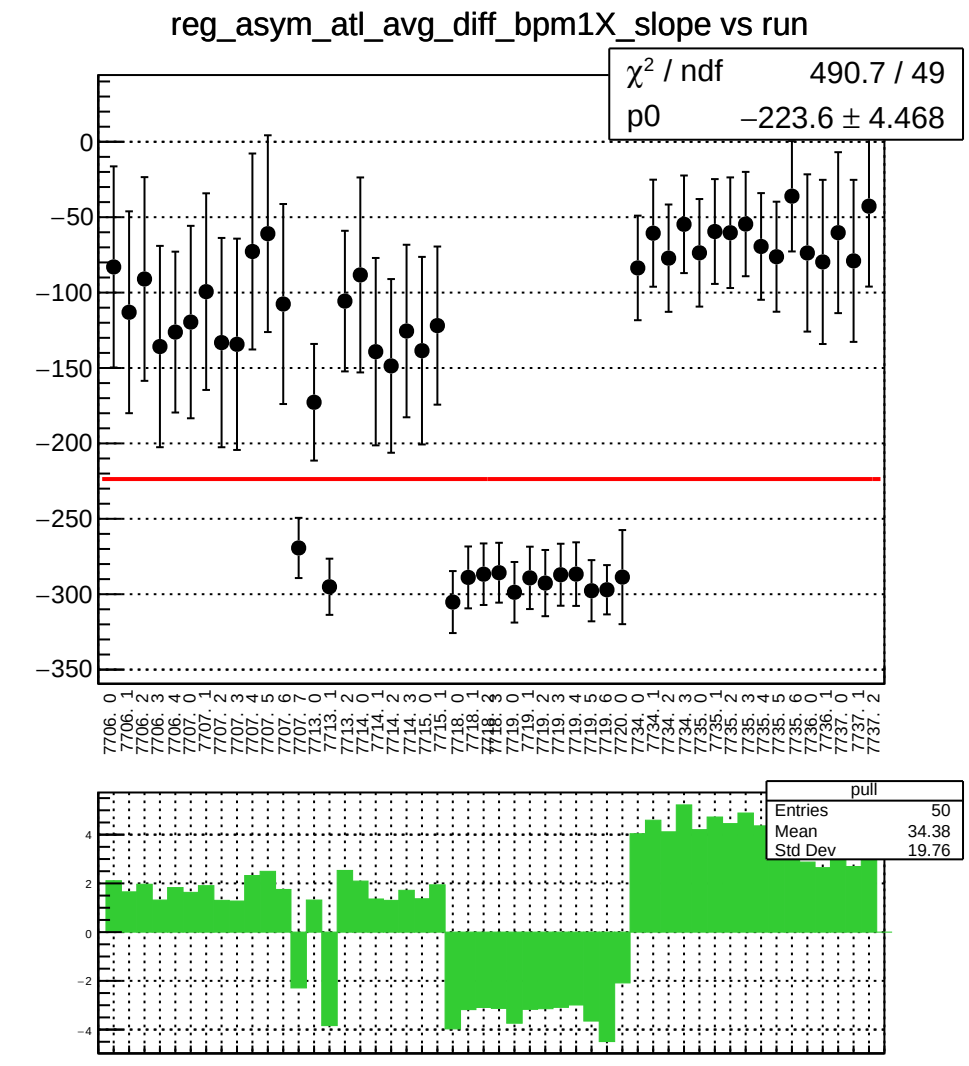

pull1D
Entries 50
Mean 0.06022
Std Dev 0.2258

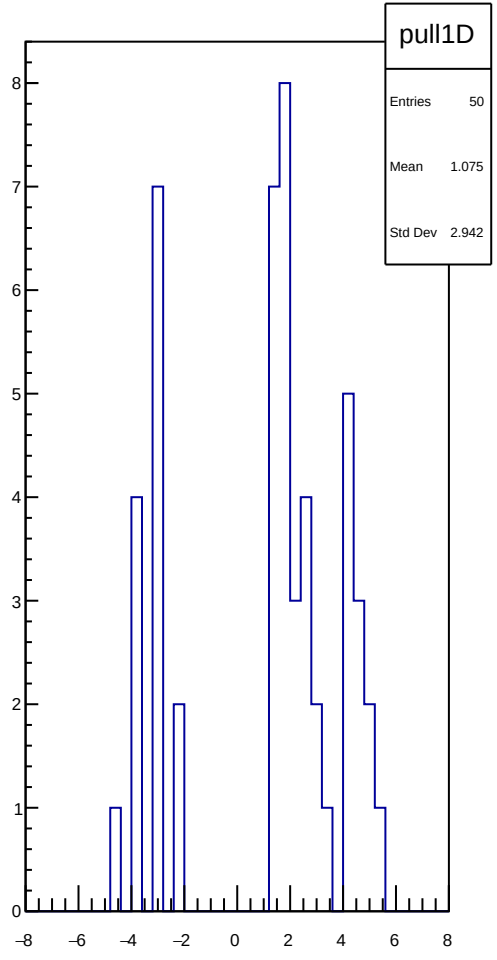

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 419.7 / 49
p0 686.4 ± 8.473
pull
Entries 50
Mean 29.08
Std Dev 18.56

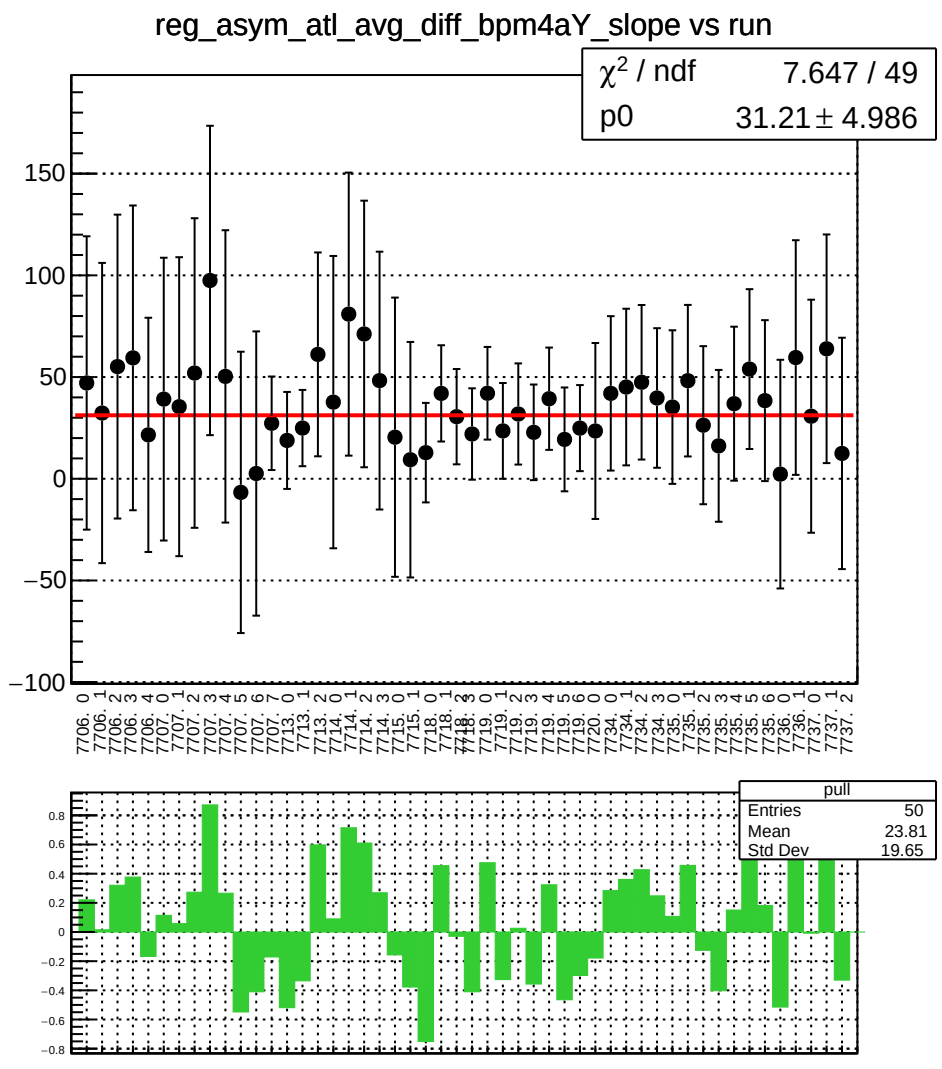

pull1D
Entries 50
Mean −1.494
Std Dev 2.482

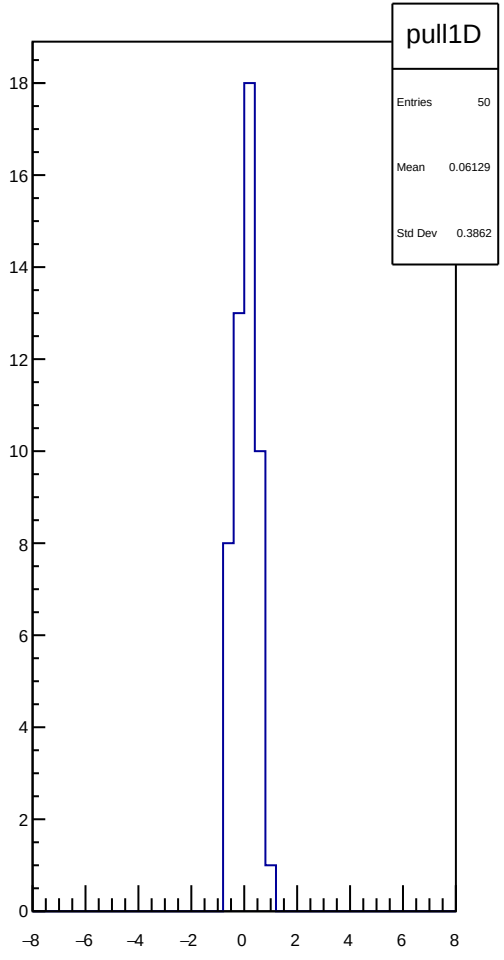

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 6.071 / 49
p0 4.603 ± 17.65
pull
Entries 50
Mean 41.16
Std Dev 10.23
pull1D
Entries 50
Mean −0.117
Std Dev 0.3282

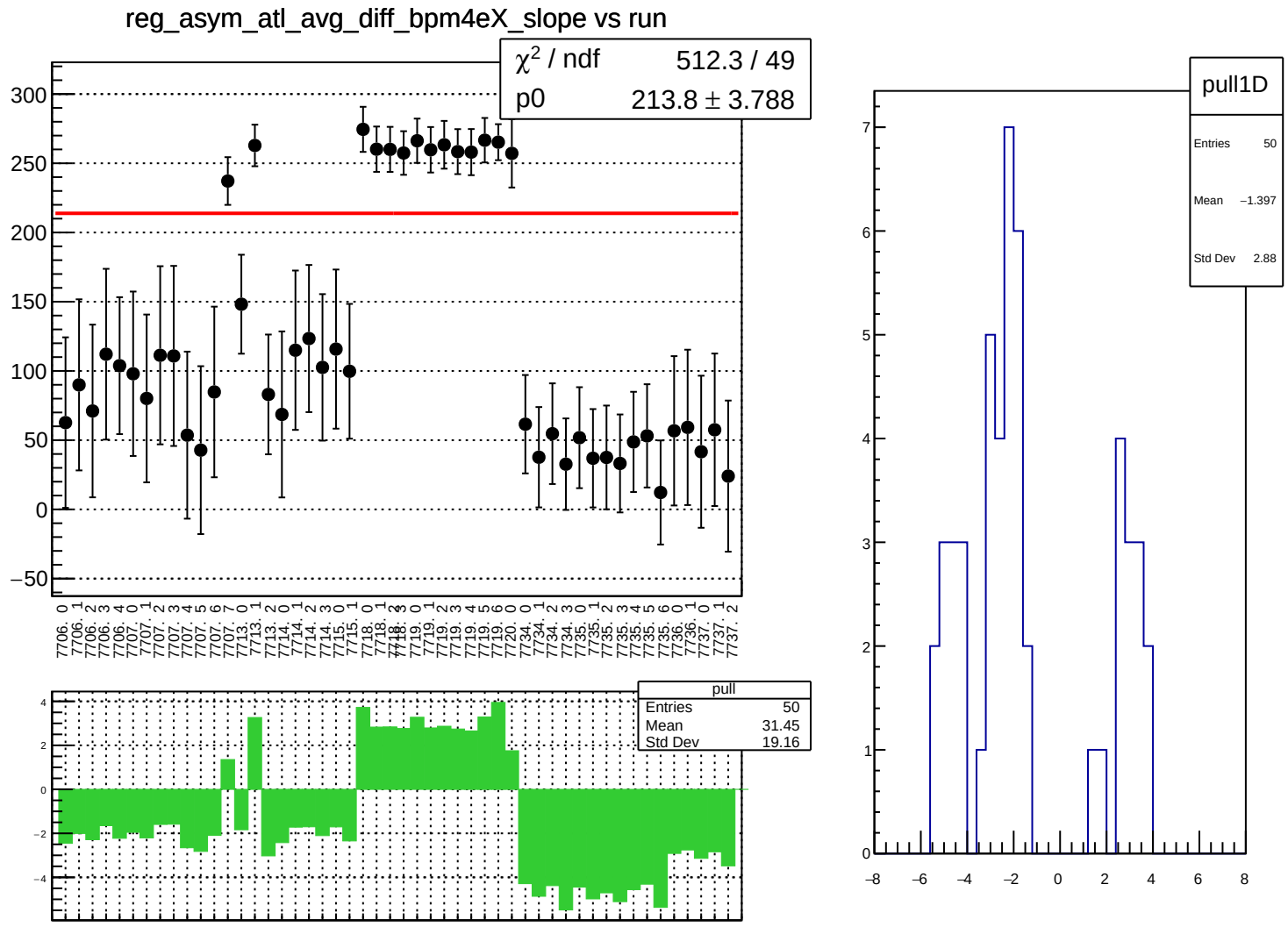

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 201.1 / 49
p0 −279.2 ± 0.8278
−260
−270
−280
−290
−300
−310
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 297.8
Std Dev 258.6
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 50
Mean 0.01682
Std Dev 2.005
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

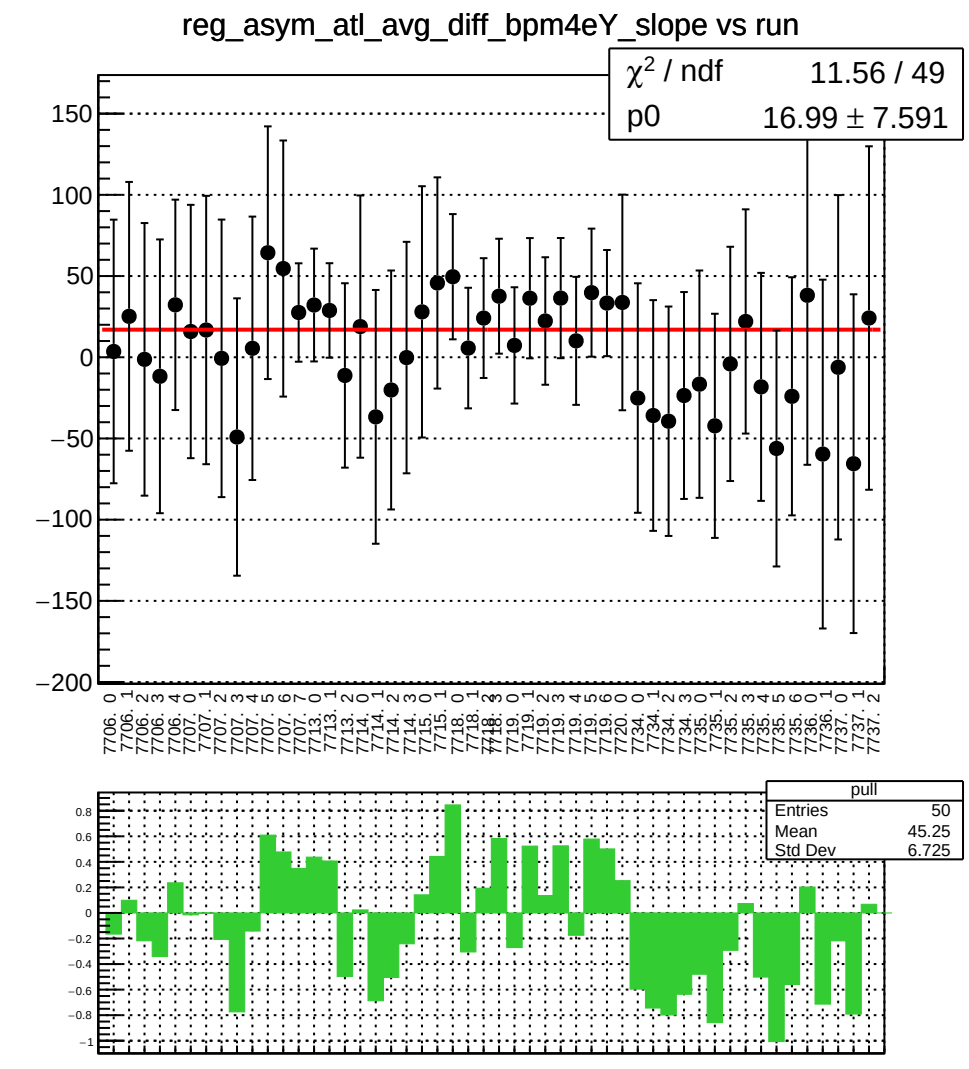

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 490.7 / 49
p0 −223.6 ± 4.468
pull
Entries 50
Mean 34.38
Std Dev 19.76

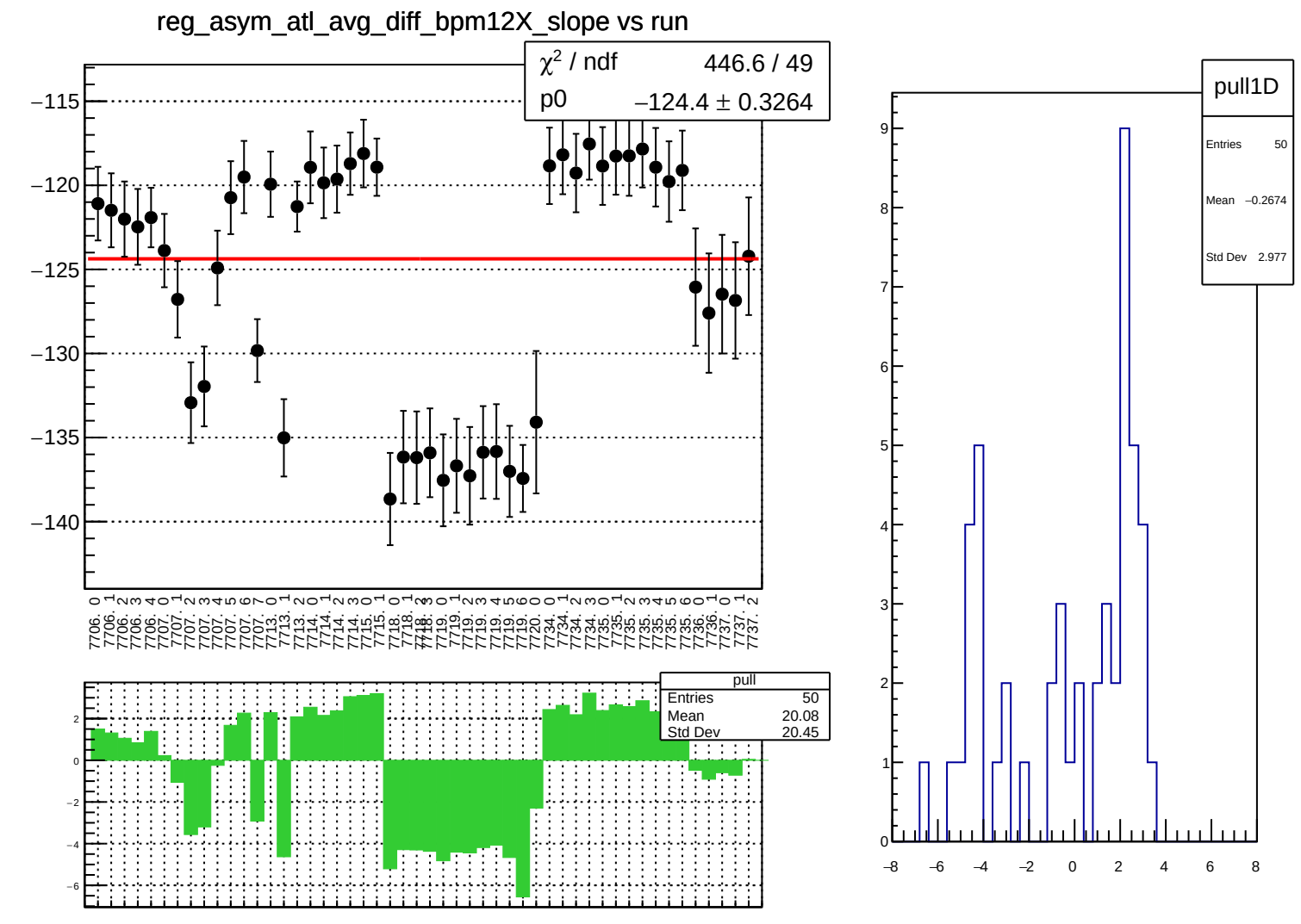

pull1D
Entries 50
Mean 1.075
Std Dev 2.942

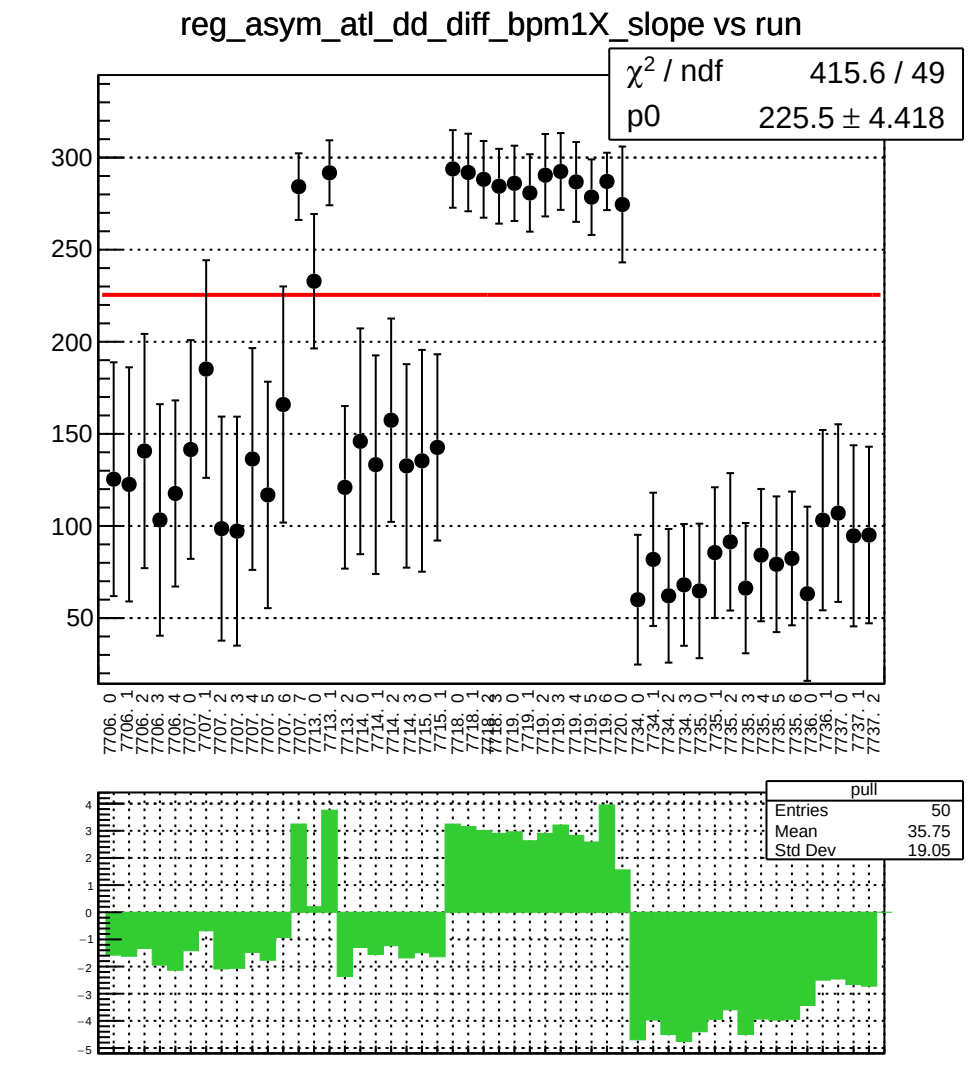

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.647 / 49
p0 31.21 ± 4.986
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 23.81
Std Dev 19.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

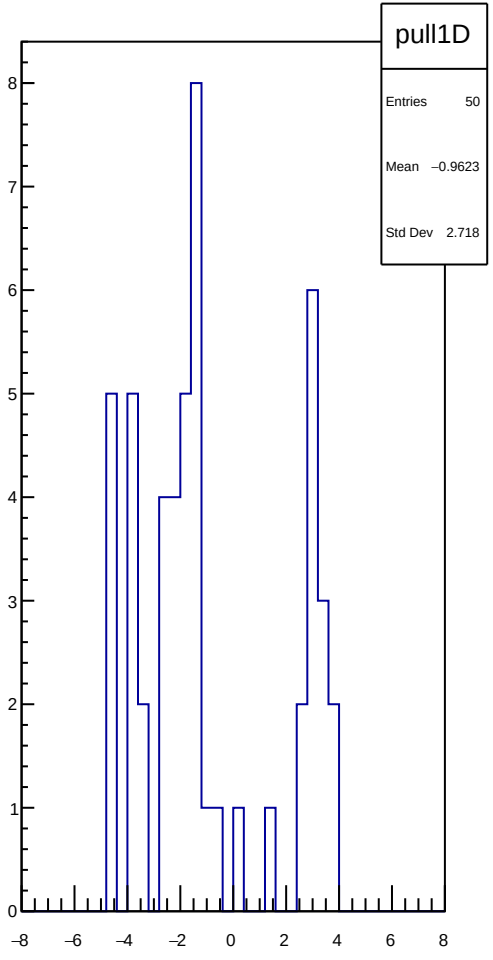

pull1D
Entries 50
Mean 0.06129
Std Dev 0.3862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

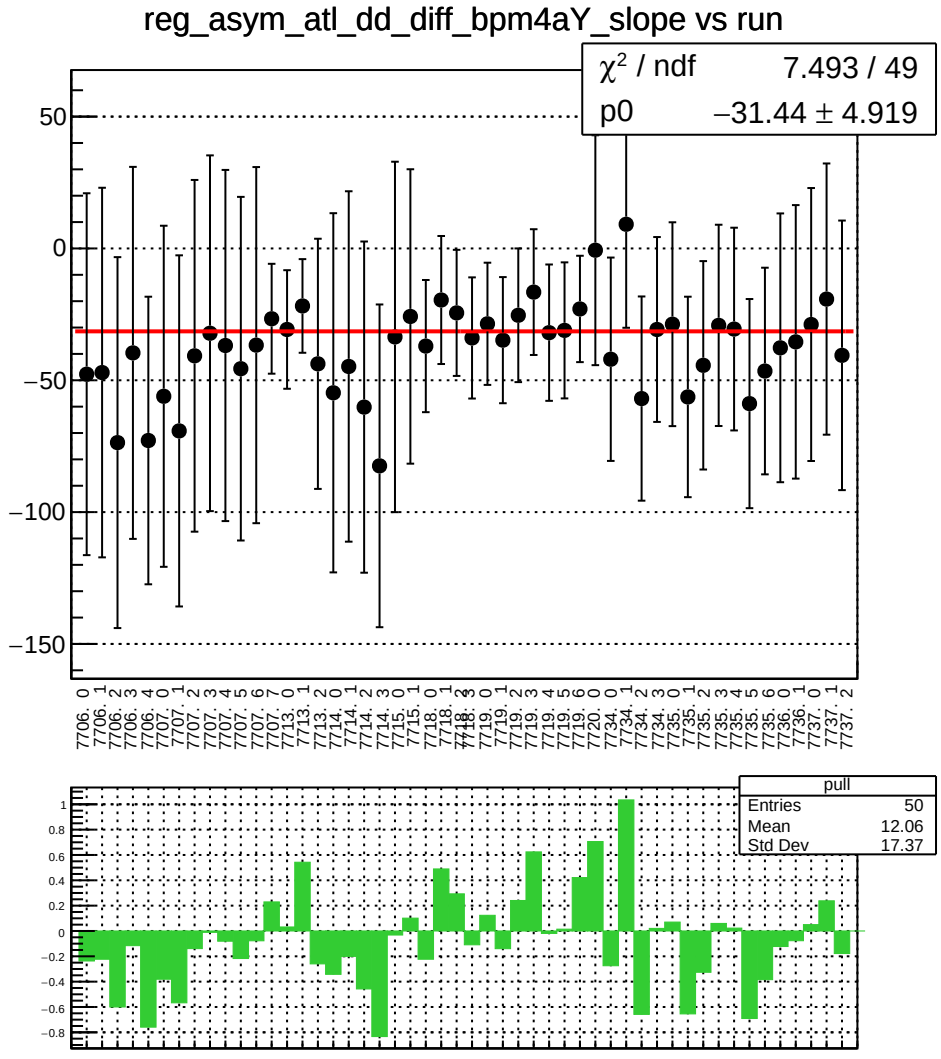

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 512.3 / 49
p0 213.8 ± 3.788
pull
Entries 50
Mean 31.45
Std Dev 19.16
pull1D
Entries 50
Mean −1.397
Std Dev 2.88

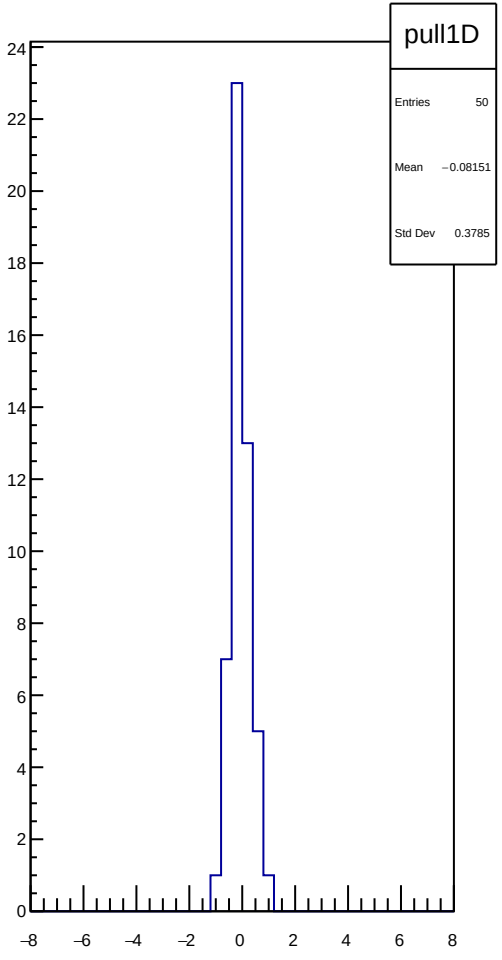

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.56 / 49
p0 16.99 ± 7.591
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 45.25
Std Dev 6.725
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 50
Mean −0.1007
Std Dev 0.4702
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

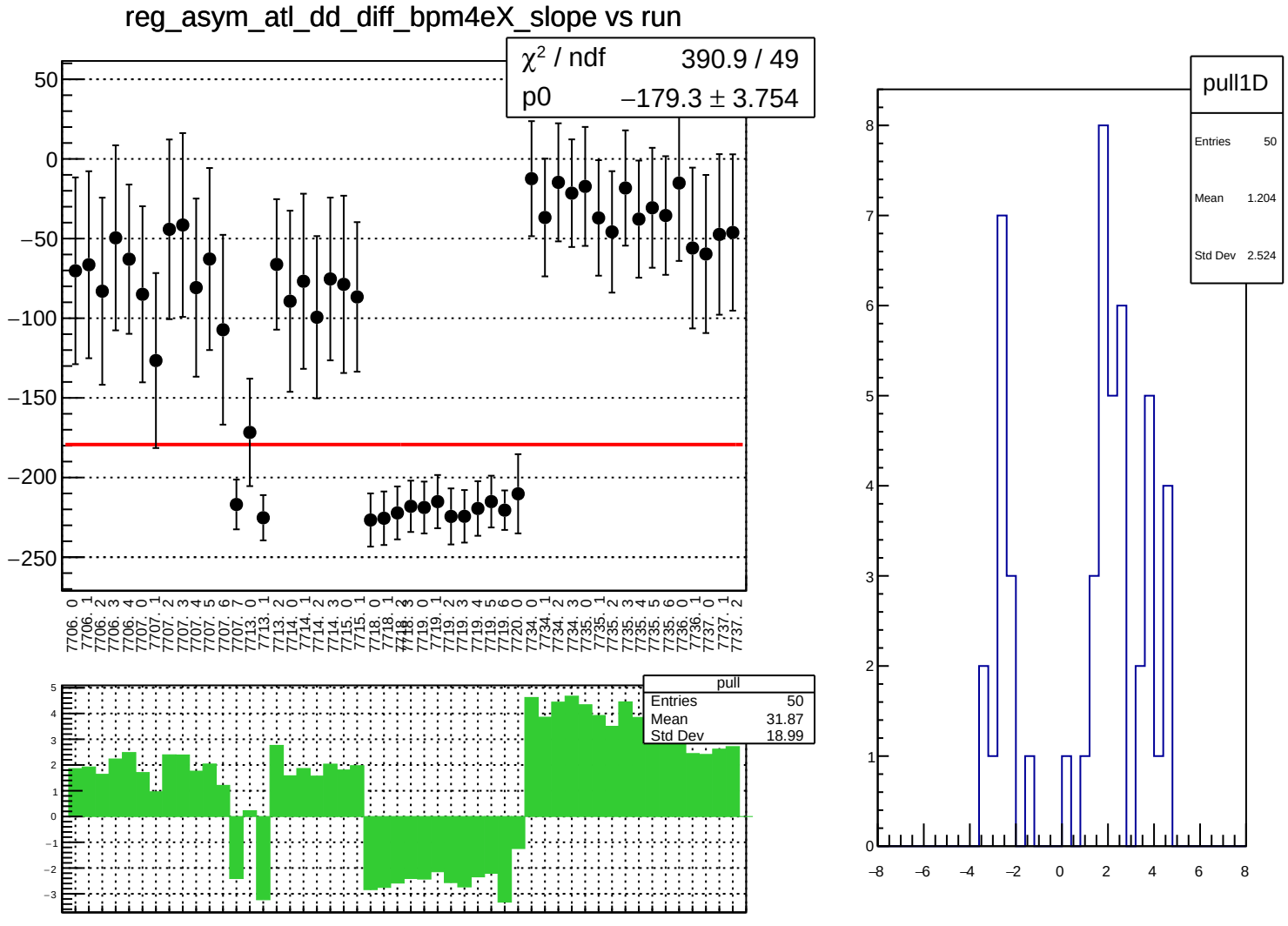

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 446.6 / 49
p0 −124.4 ± 0.3264
−115
−120
−125
−130
−135
−140
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 20.08
Std Dev 20.45
2
0
−2
−4
−6
pull1D
Entries 50
Mean −0.2674
Std Dev 2.977
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

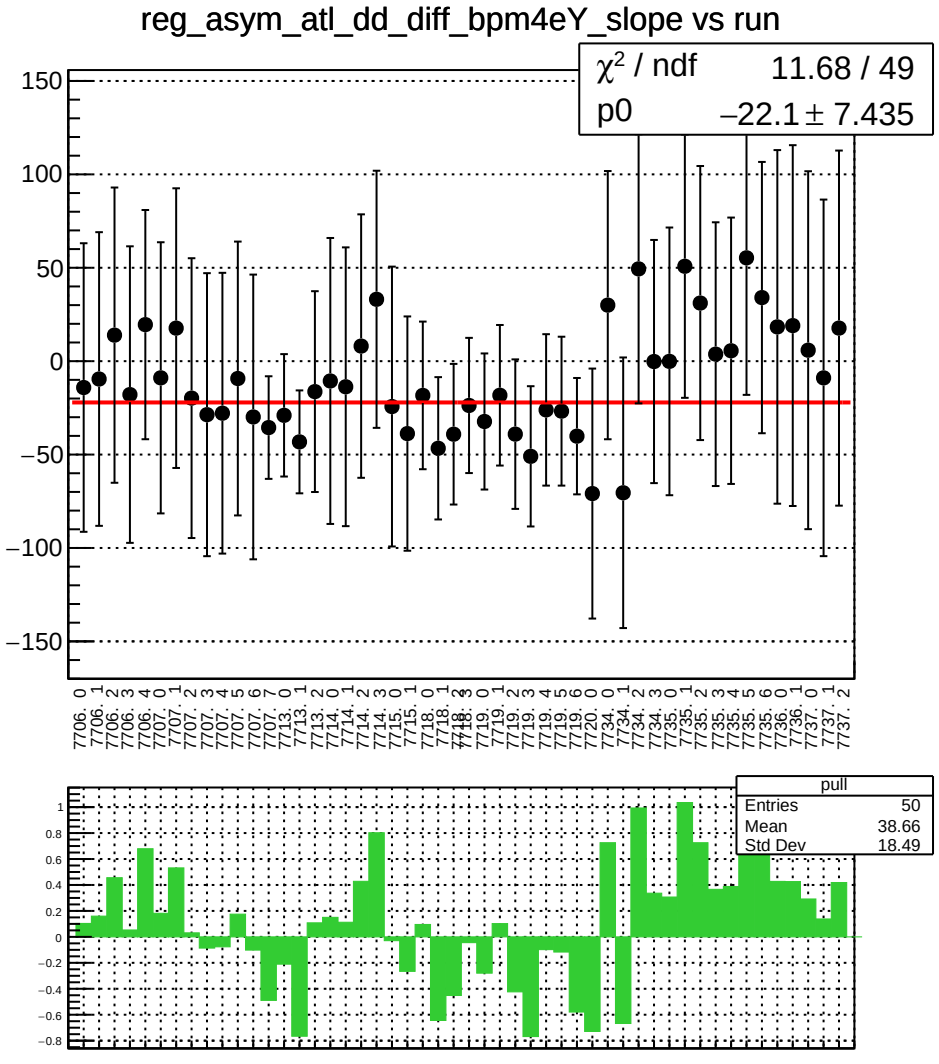

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 415.6 / 49
p0 225.5 ± 4.418
300
250
200
150
100
50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 35.75
Std Dev 19.05
4
3
2
1
0
−1
−2
−3
−4
−5

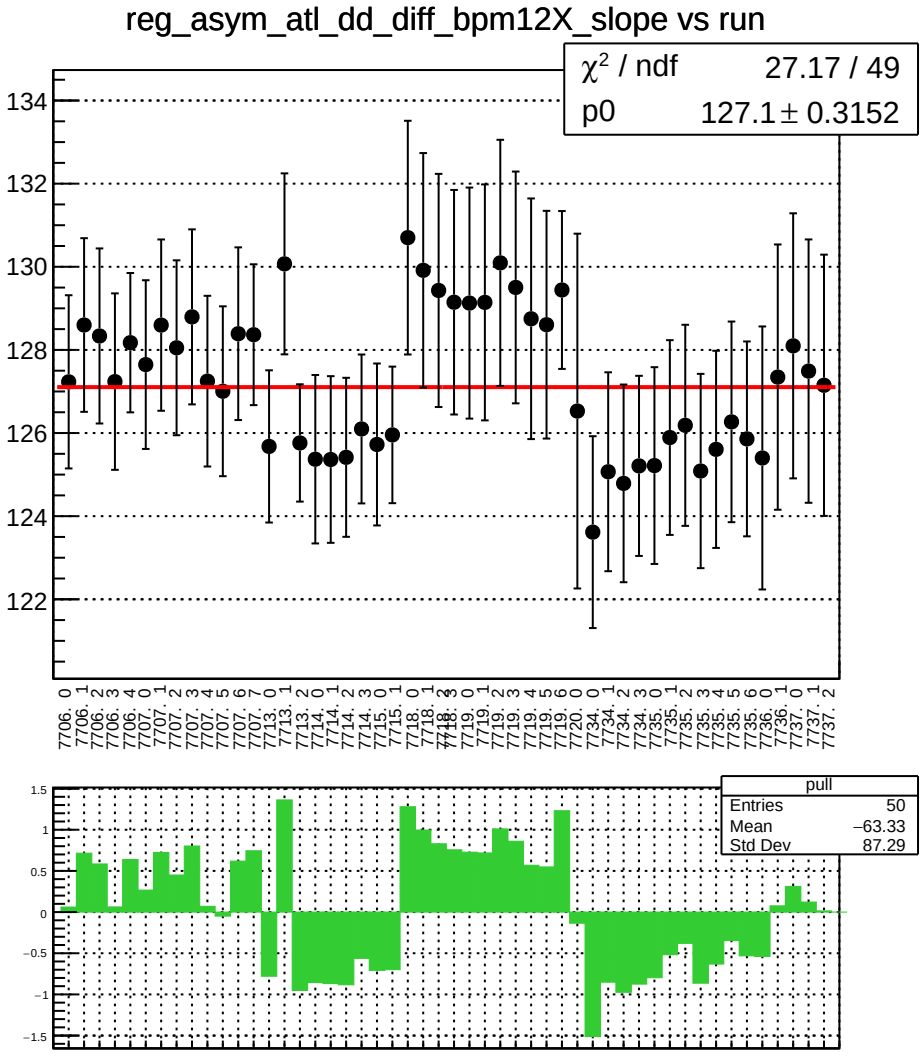

pull1D
Entries 50
Mean −0.9623
Std Dev 2.718
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

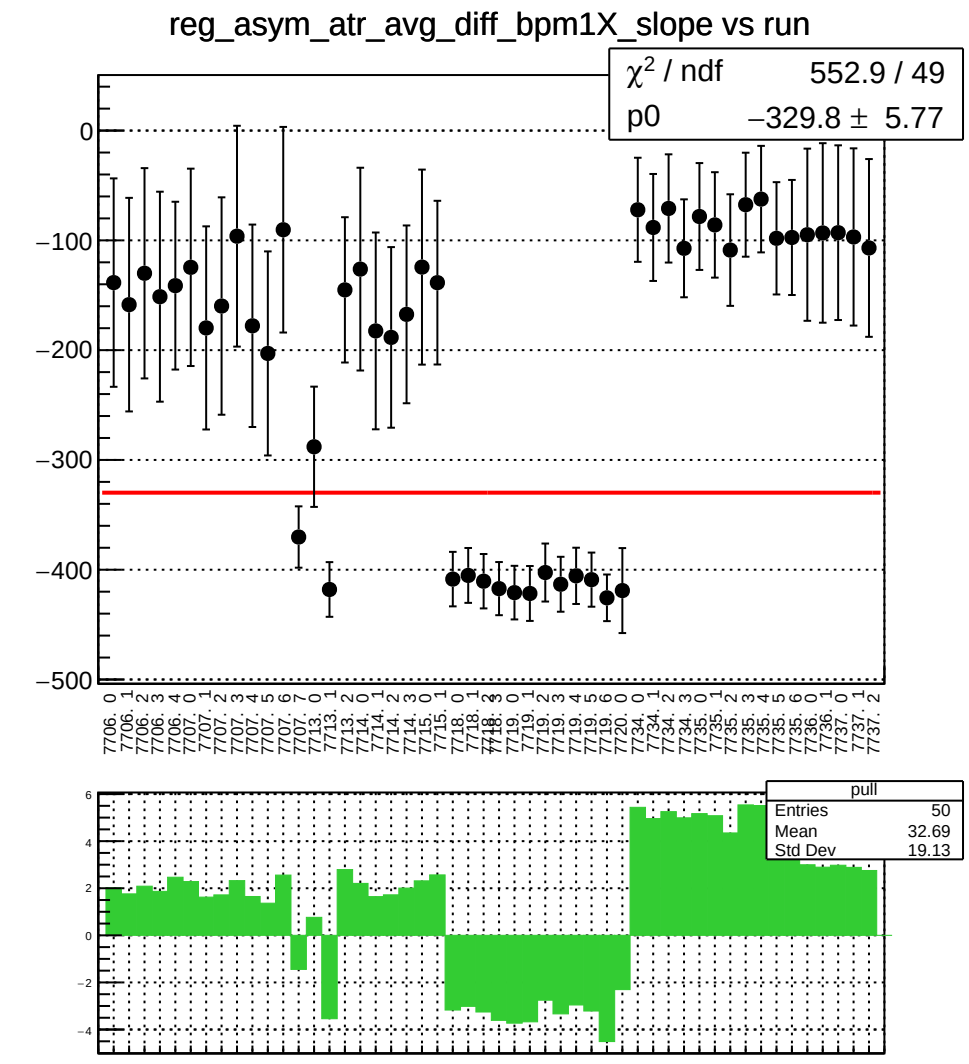

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.493 / 49
p0 −31.44 ± 4.919
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 12.06
Std Dev 17.37
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

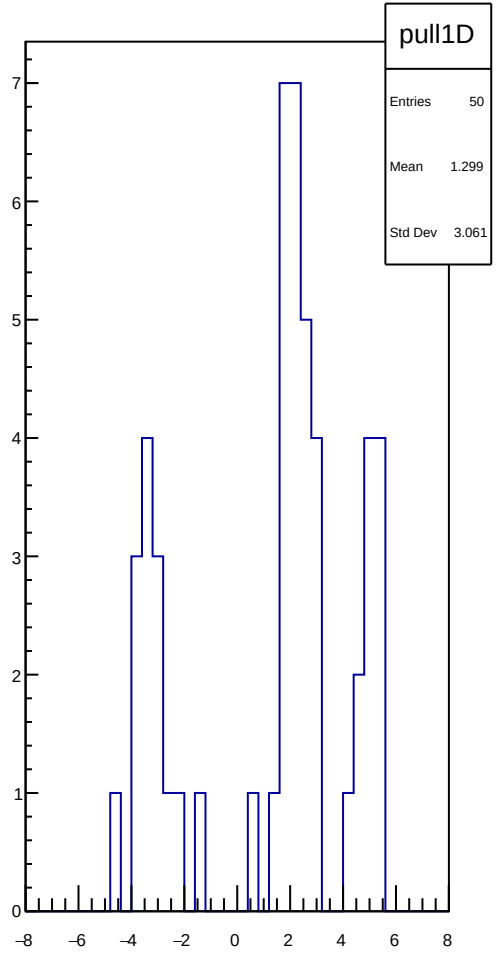

pull1D
Entries 50
Mean −0.08151
Std Dev 0.3785
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

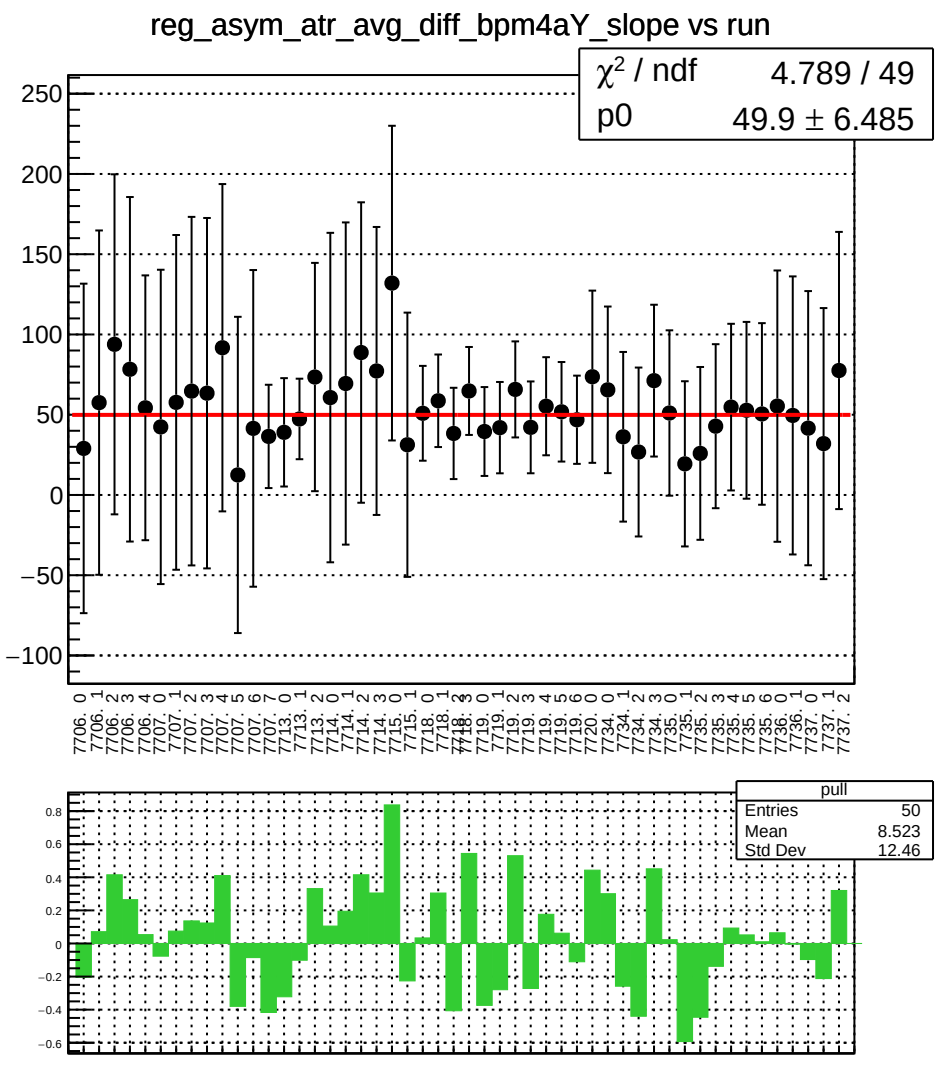

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 390.9 / 49
p0 −179.3 ± 3.754
50
0
−50
−100
−150
−200
−250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 31.87
Std Dev 18.99
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 1.204
Std Dev 2.524
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

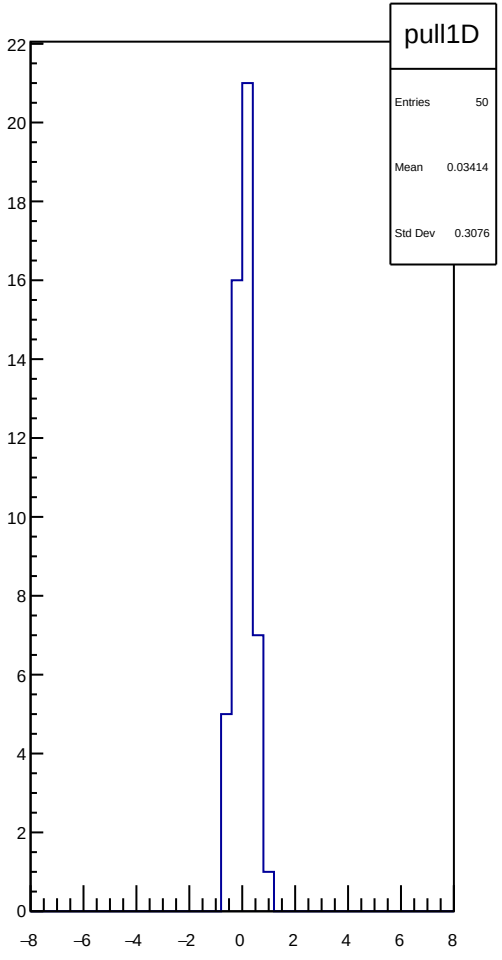

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.68 / 49
p0 −22.1 ± 7.435
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 38.66
Std Dev 18.49
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 50
Mean 0.115
Std Dev 0.4694
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

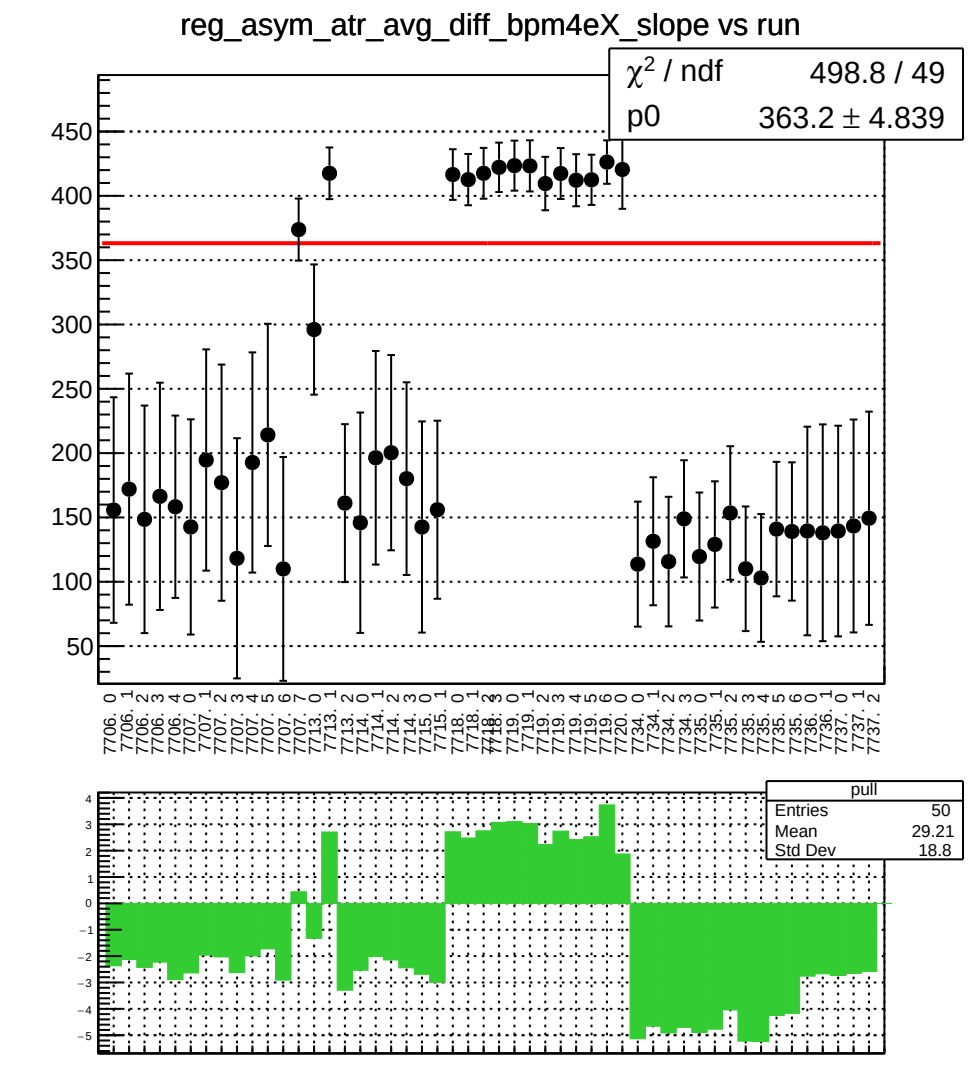

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 27.17 / 49
p0 127.1 ± 0.3152
134
132
130
128
126
124
122
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −63.33
Std Dev 87.29
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 50
Mean 0.03672
Std Dev 0.7362
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

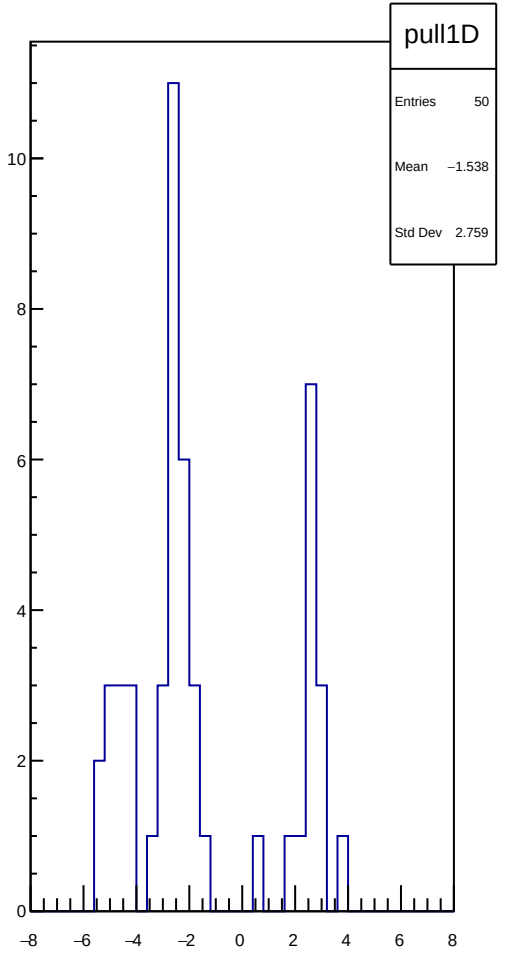

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 552.9 / 49
p0 −329.8 ± 5.77
pull
Entries 50
Mean 32.69
Std Dev 19.13

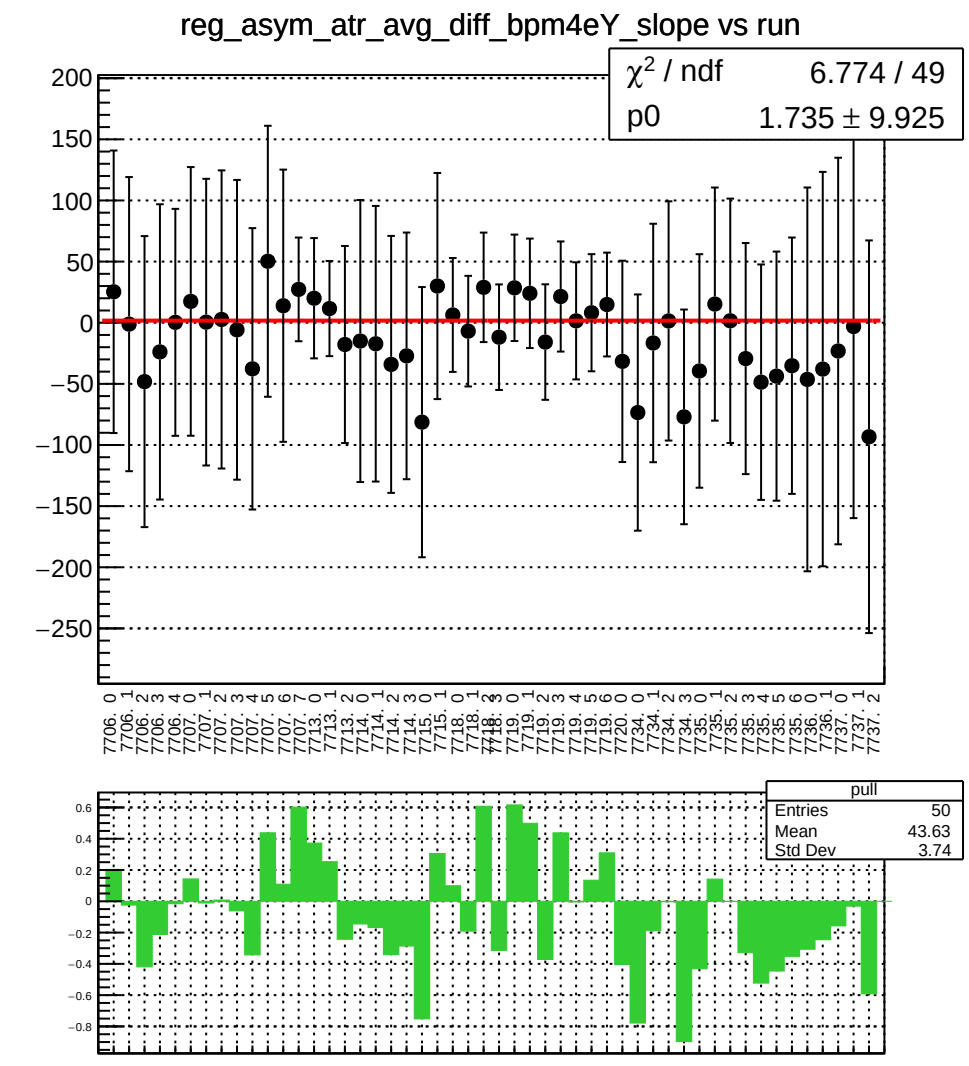

pull1D
Entries 50
Mean 1.299
Std Dev 3.061

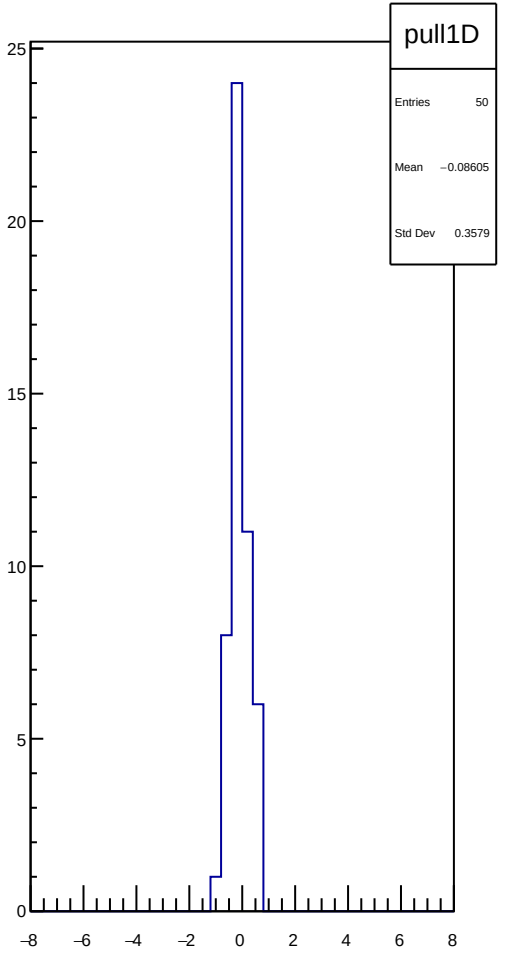

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.789 / 49
p0 49.9 ± 6.485
pull
Entries 50
Mean 8.523
Std Dev 12.46

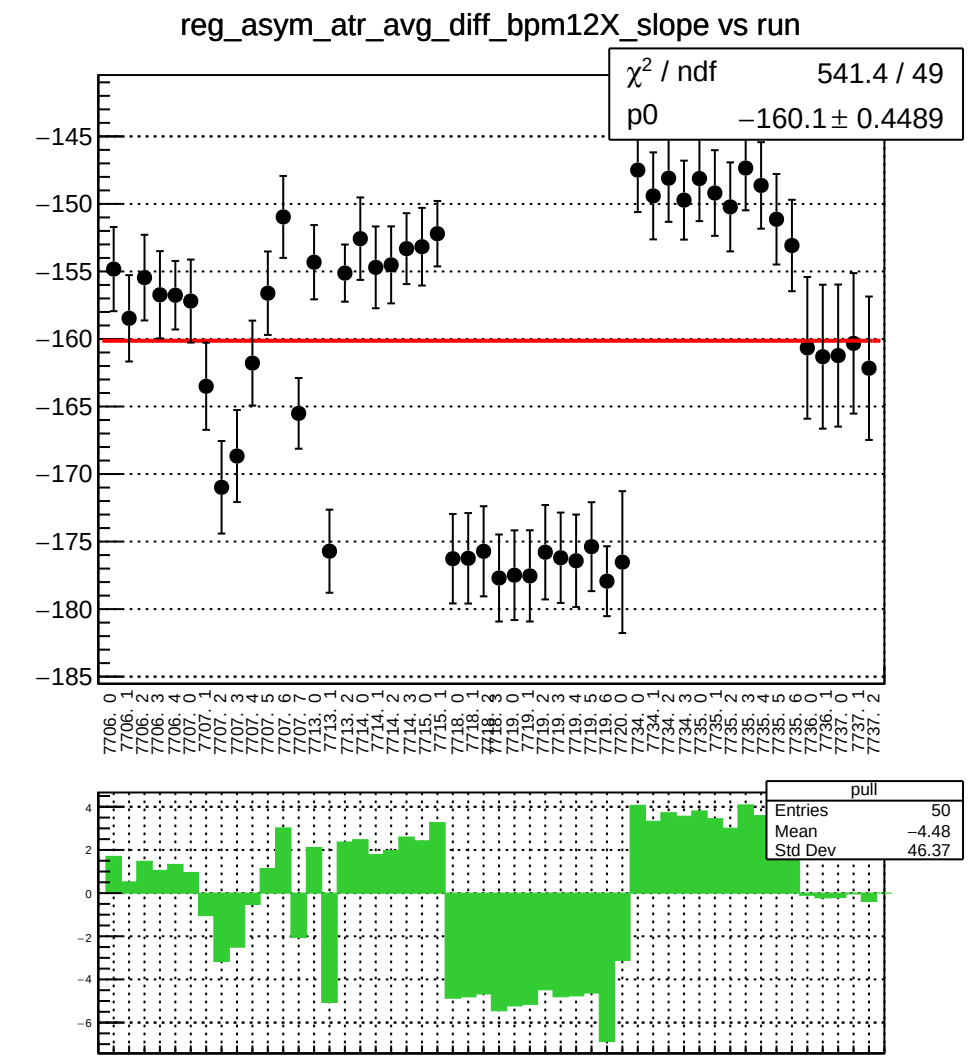

pull1D
Entries 50
Mean 0.03414
Std Dev 0.3076

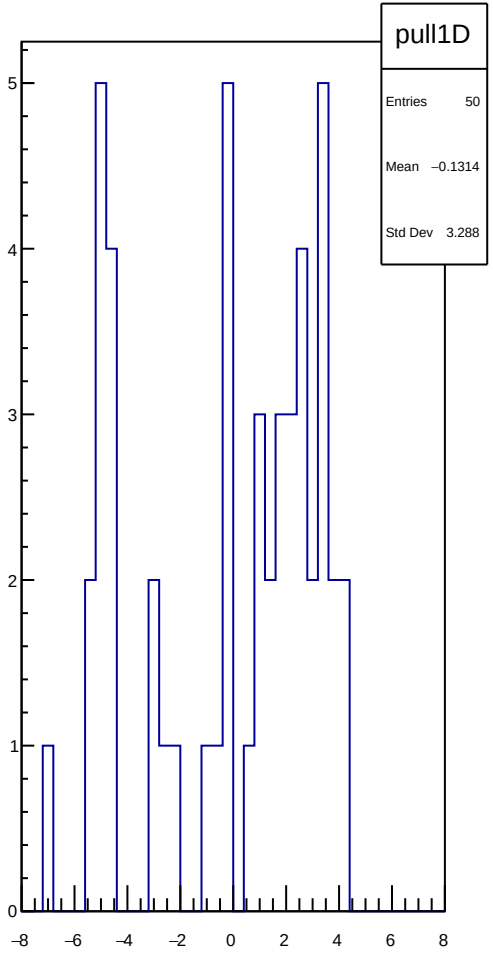

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 498.8 / 49
p0 363.2 ± 4.839
pull
Entries 50
Mean 29.21
Std Dev 18.8

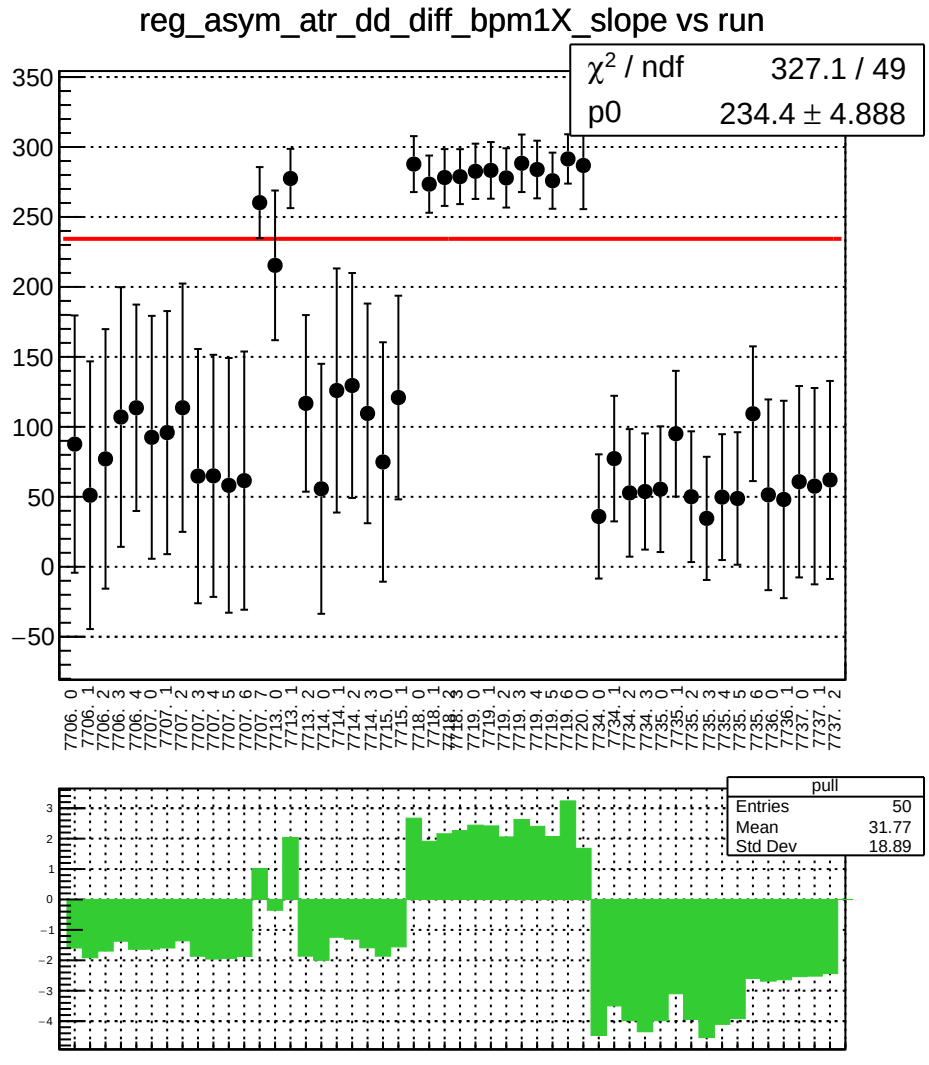

pull1D
Entries 50
Mean −1.538
Std Dev 2.759

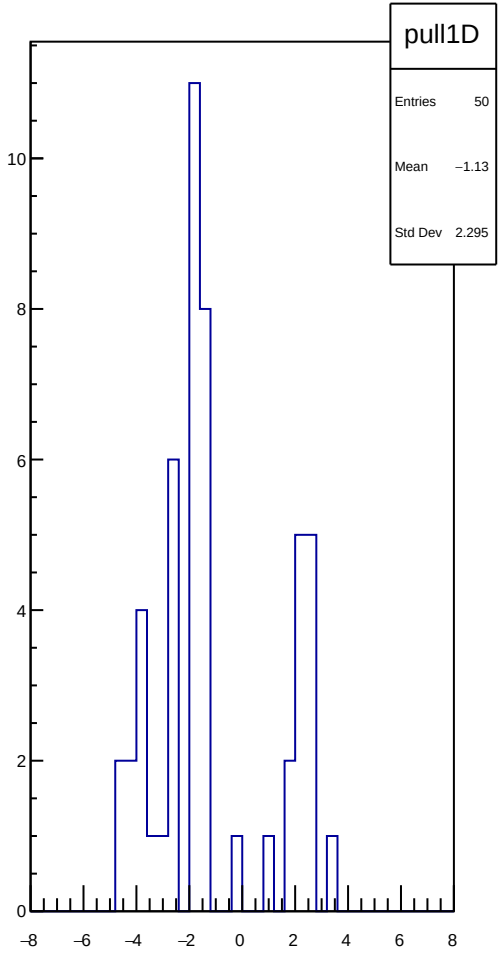

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.774 / 49
p0 1.735 ± 9.925
pull
Entries 50
Mean 43.63
Std Dev 3.74

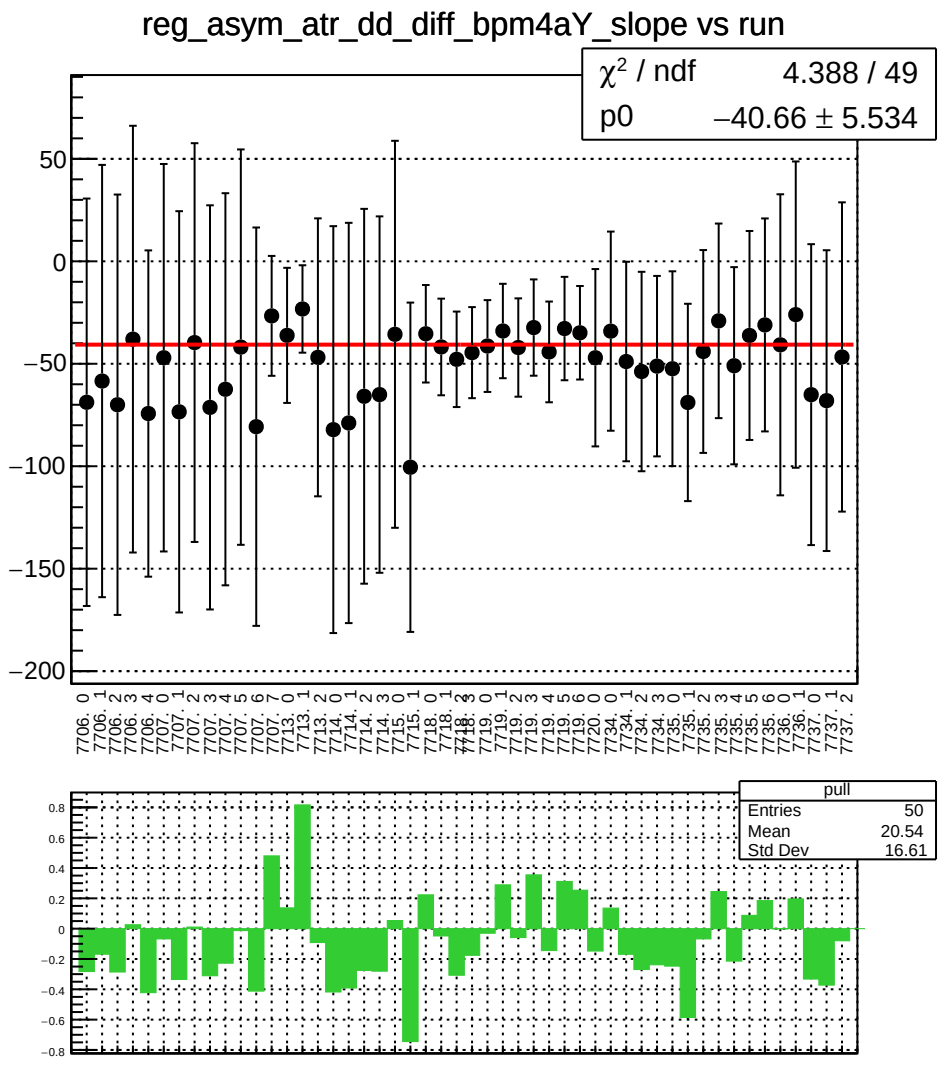

pull1D
Entries 50
Mean −0.08605
Std Dev 0.3579

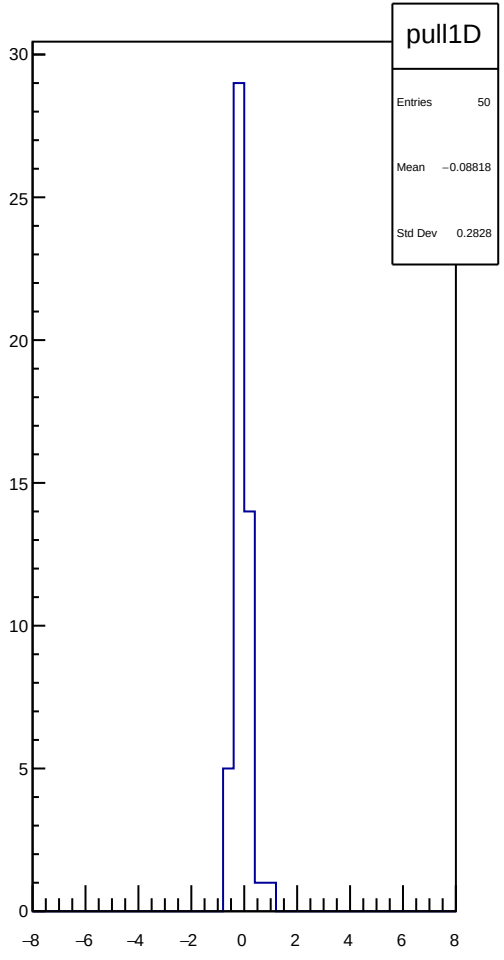

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 541.4 / 49
p0 −160.1 ± 0.4489
pull
Entries 50
Mean −4.48
Std Dev 46.37

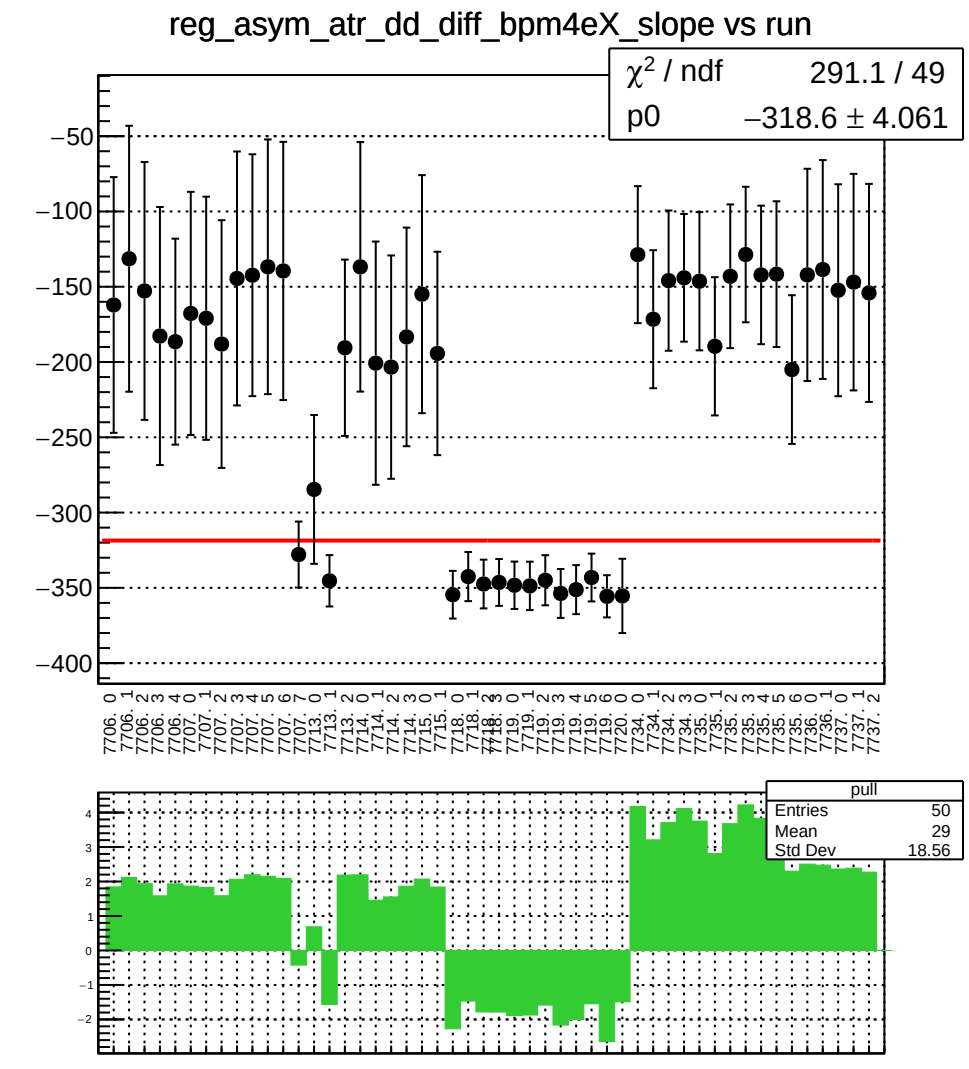

pull1D
Entries 50
Mean −0.1314
Std Dev 3.288

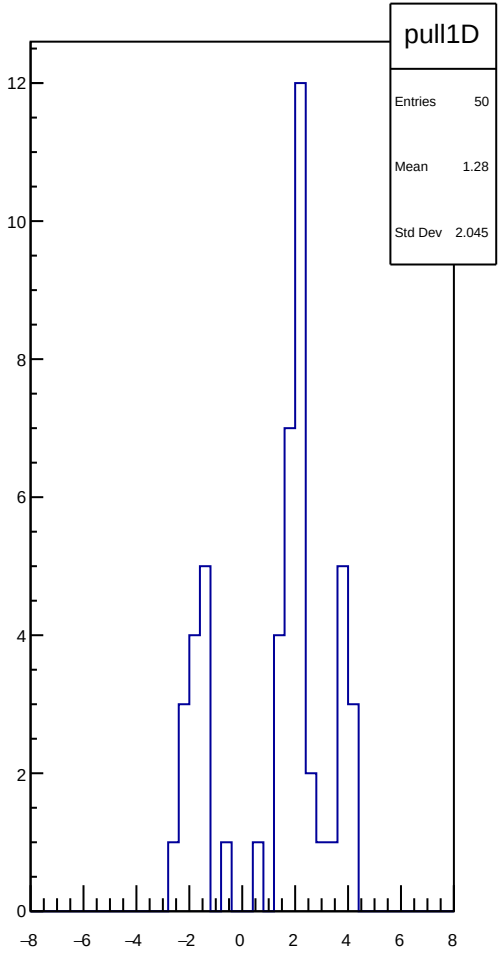

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 327.1 / 49
p0 234.4 ± 4.888
pull
Entries 50
Mean 31.77
Std Dev 18.89

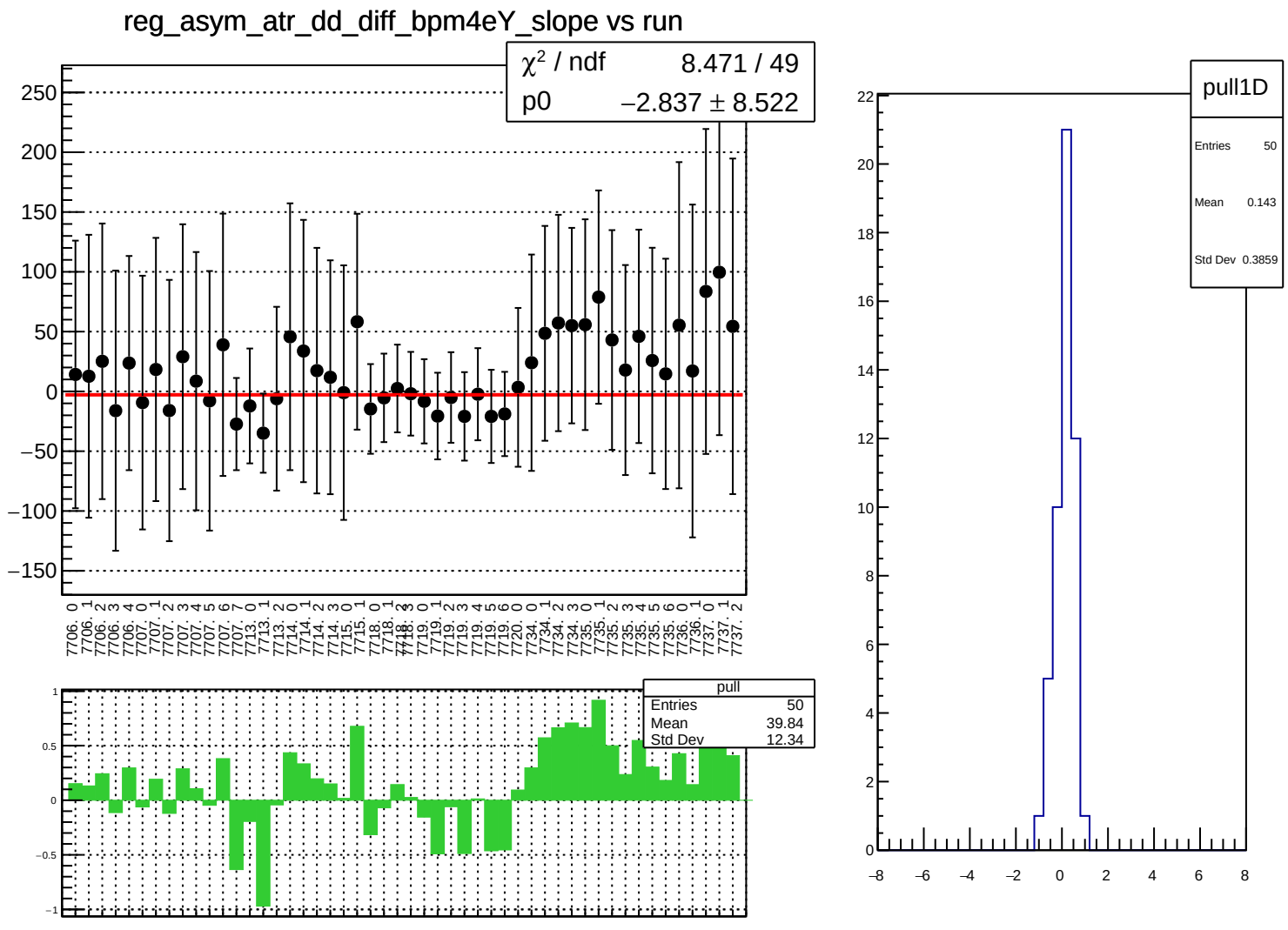

pull1D
Entries 50
Mean −1.13
Std Dev 2.295

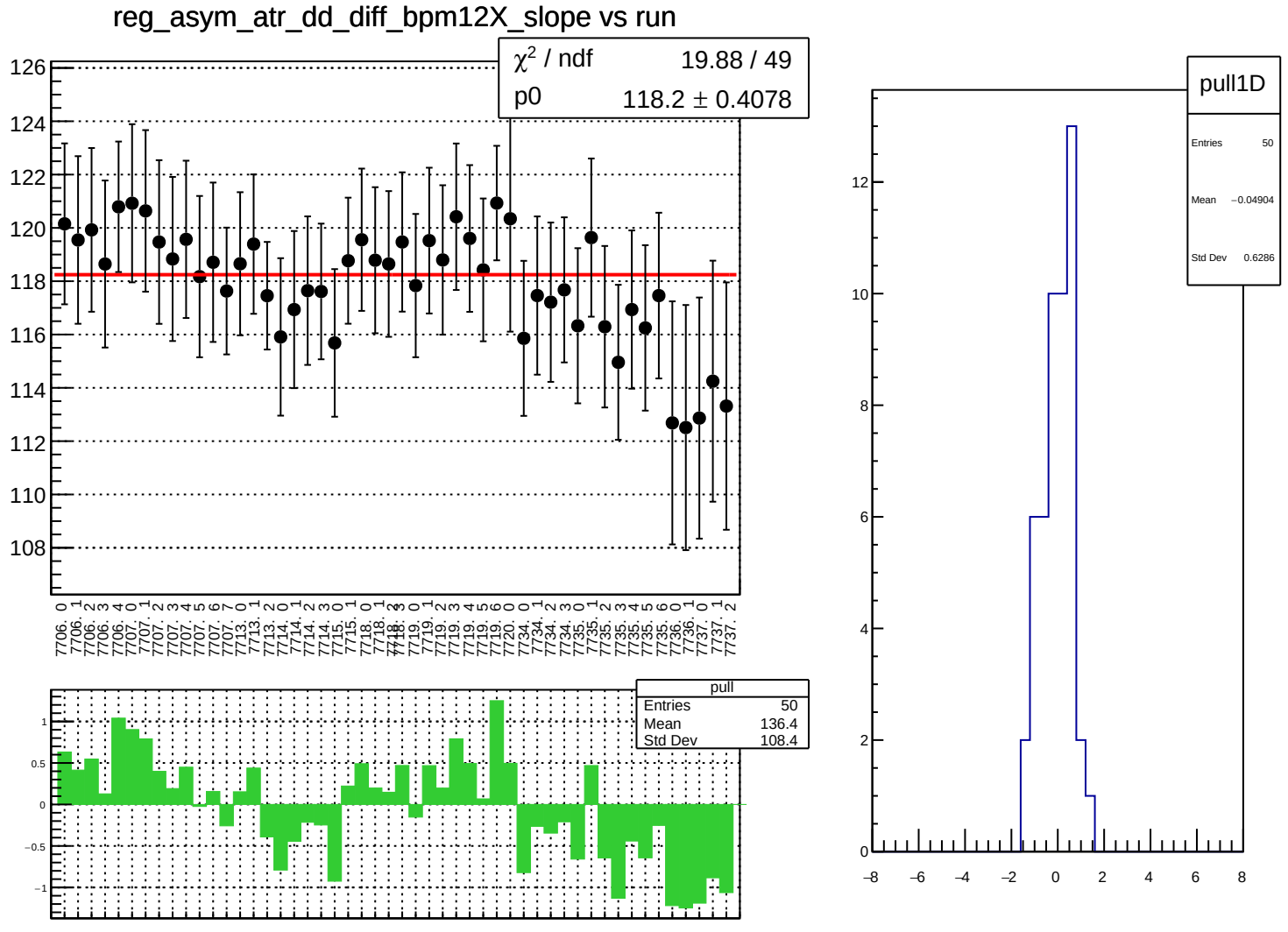

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.388 / 49
p0 −40.66 ± 5.534
pull
Entries 50
Mean 20.54
Std Dev 16.61

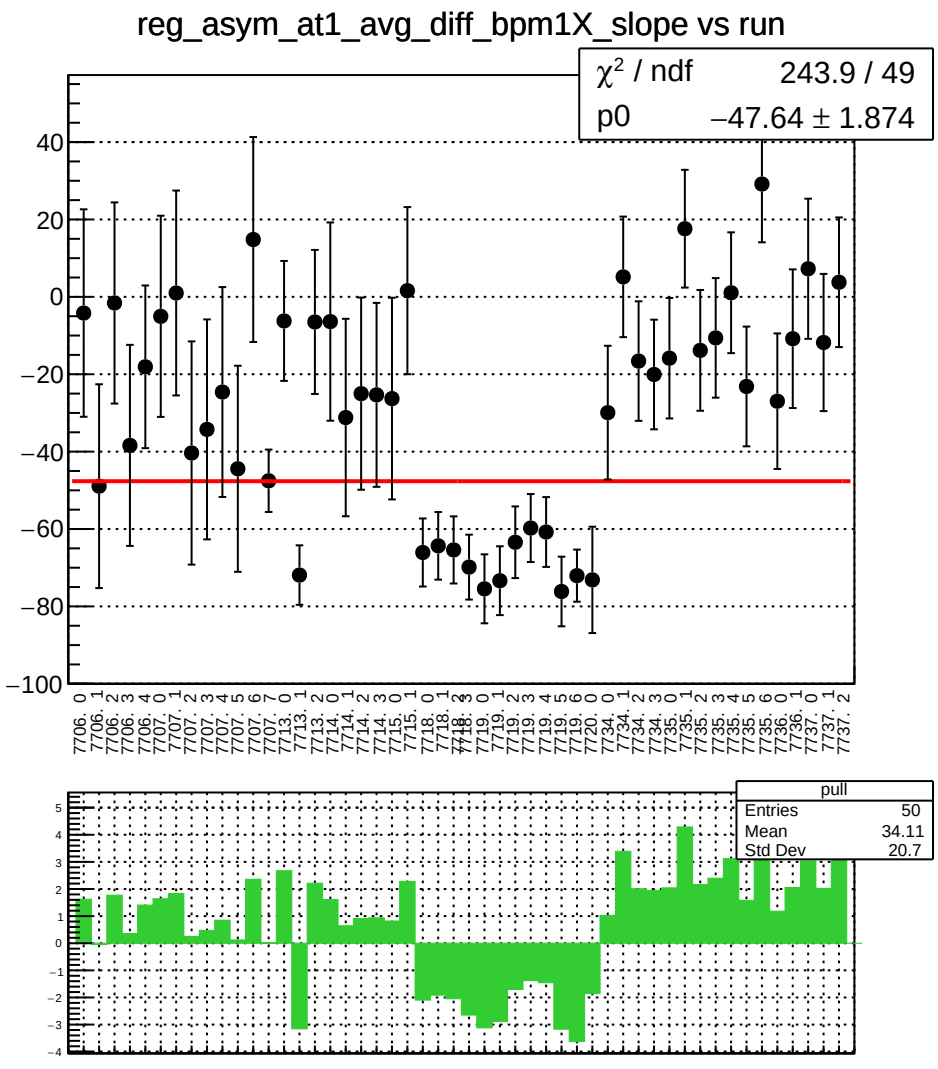

pull1D
Entries 50
Mean −0.08818
Std Dev 0.2828

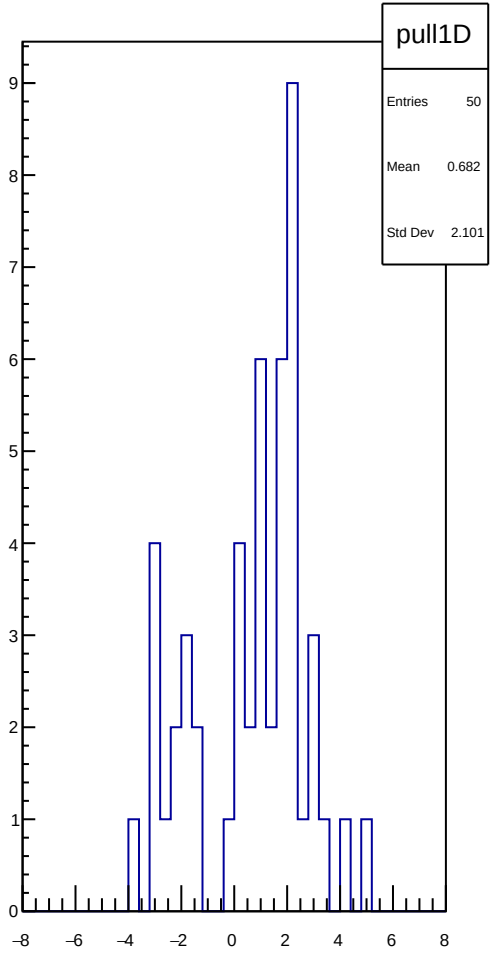

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 291.1 / 49
p0 −318.6 ± 4.061
pull
Entries 50
Mean 29
Std Dev 18.56

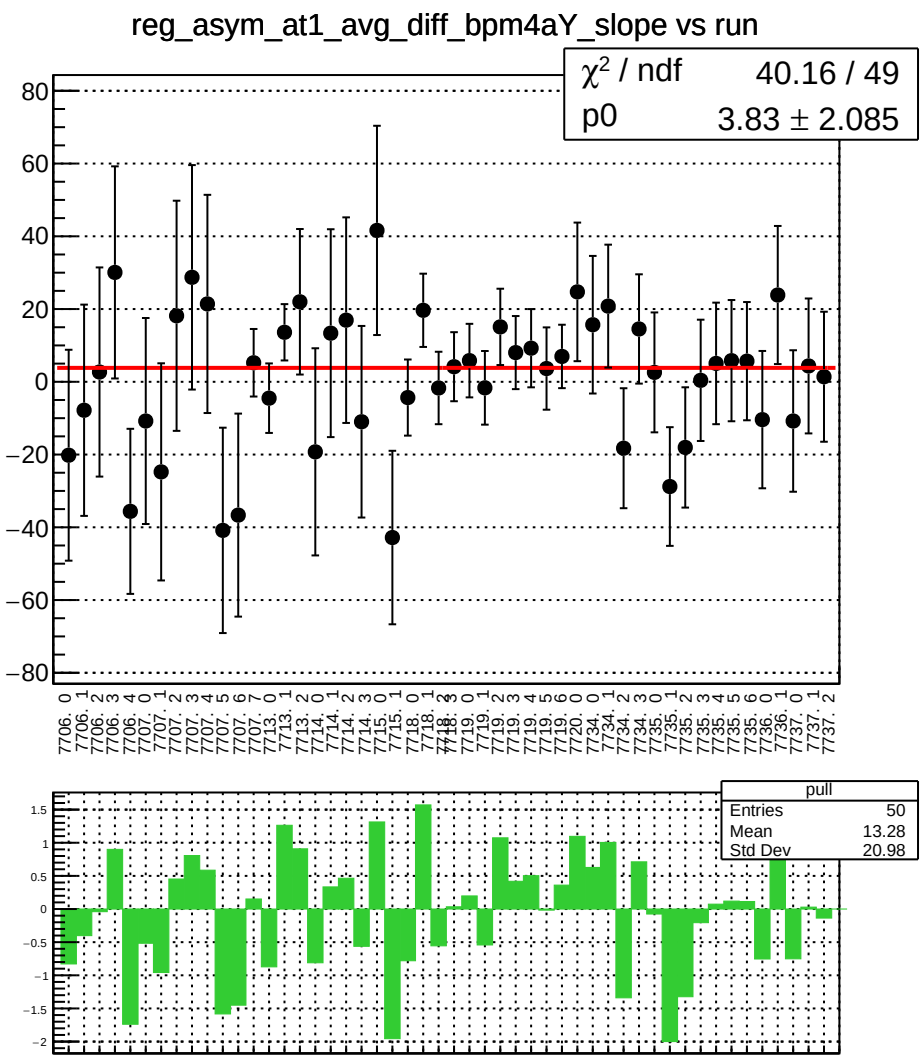

pull1D
Entries 50
Mean 1.28
Std Dev 2.045

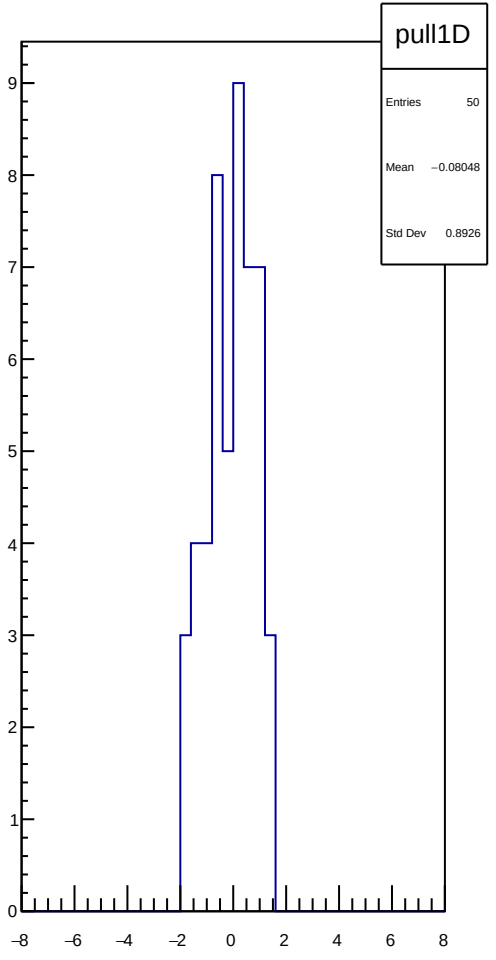

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.471 / 49
p0 −2.837 ± 8.522
pull
Entries 50
Mean 39.84
Std Dev 12.34
pull1D
Entries 50
Mean 0.143
Std Dev 0.3859

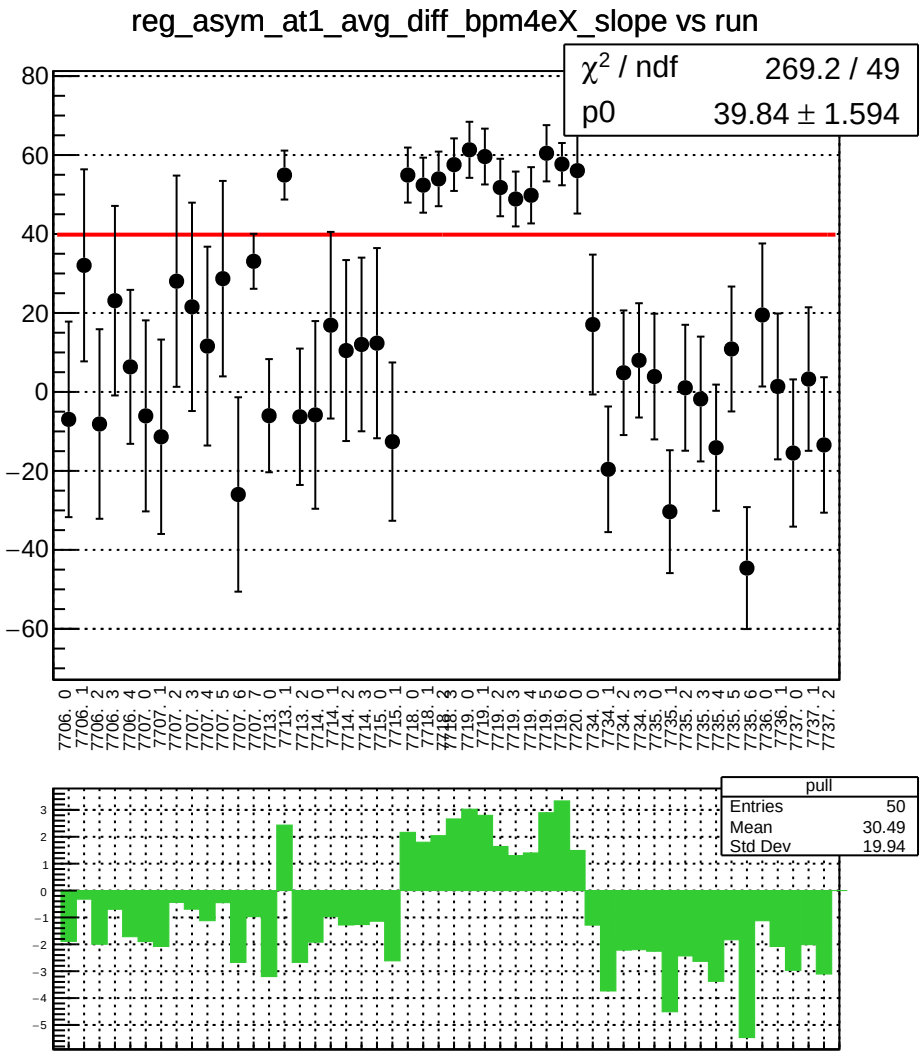

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 19.88 / 49
p0 118.2 ± 0.4078
pull
Entries 50
Mean 136.4
Std Dev 108.4
pull1D
Entries 50
Mean −0.04904
Std Dev 0.6286

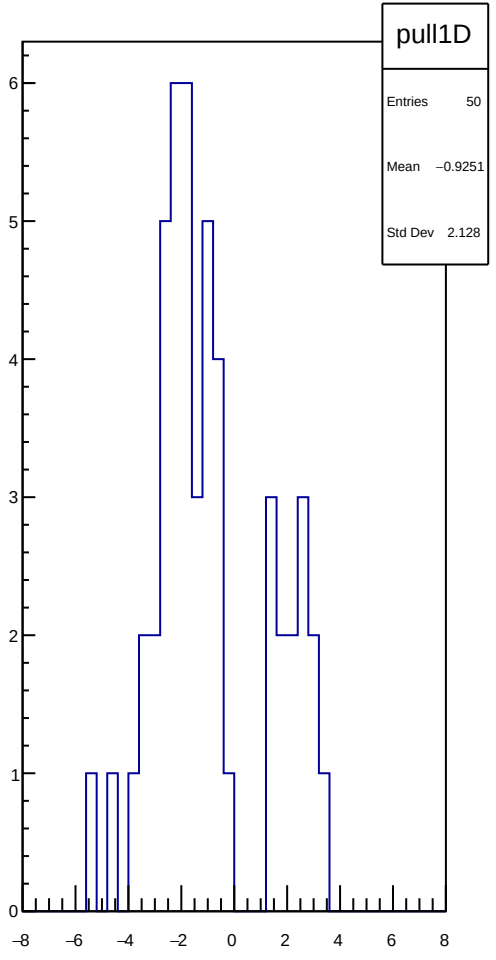

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 243.9 / 49
p0 −47.64 ± 1.874
pull
Entries 50
Mean 34.11
Std Dev 20.7

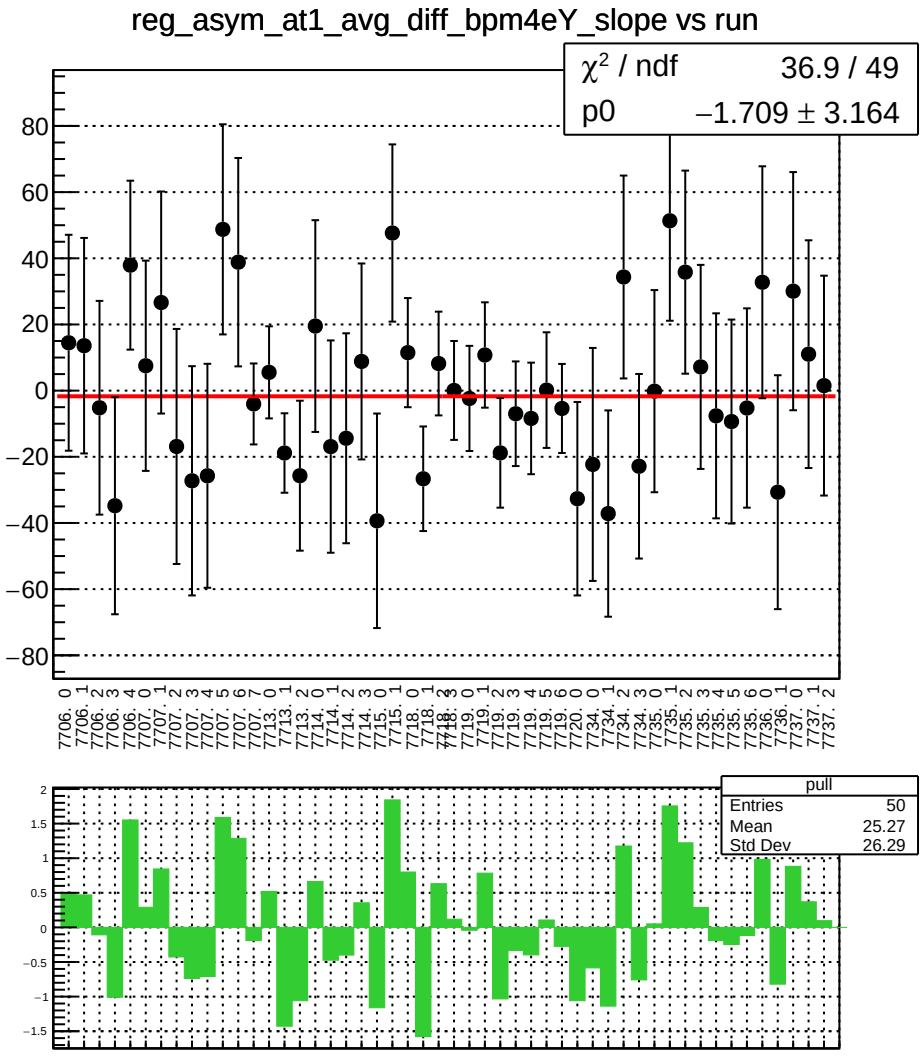

pull1D
Entries 50
Mean 0.682
Std Dev 2.101

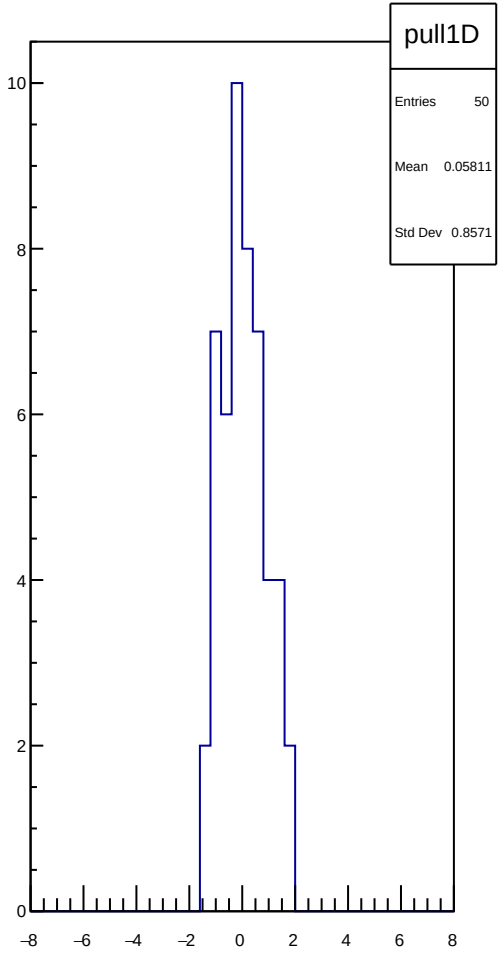

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 40.16 / 49
p0 3.83 ± 2.085
pull
Entries 50
Mean 13.28
Std Dev 20.98

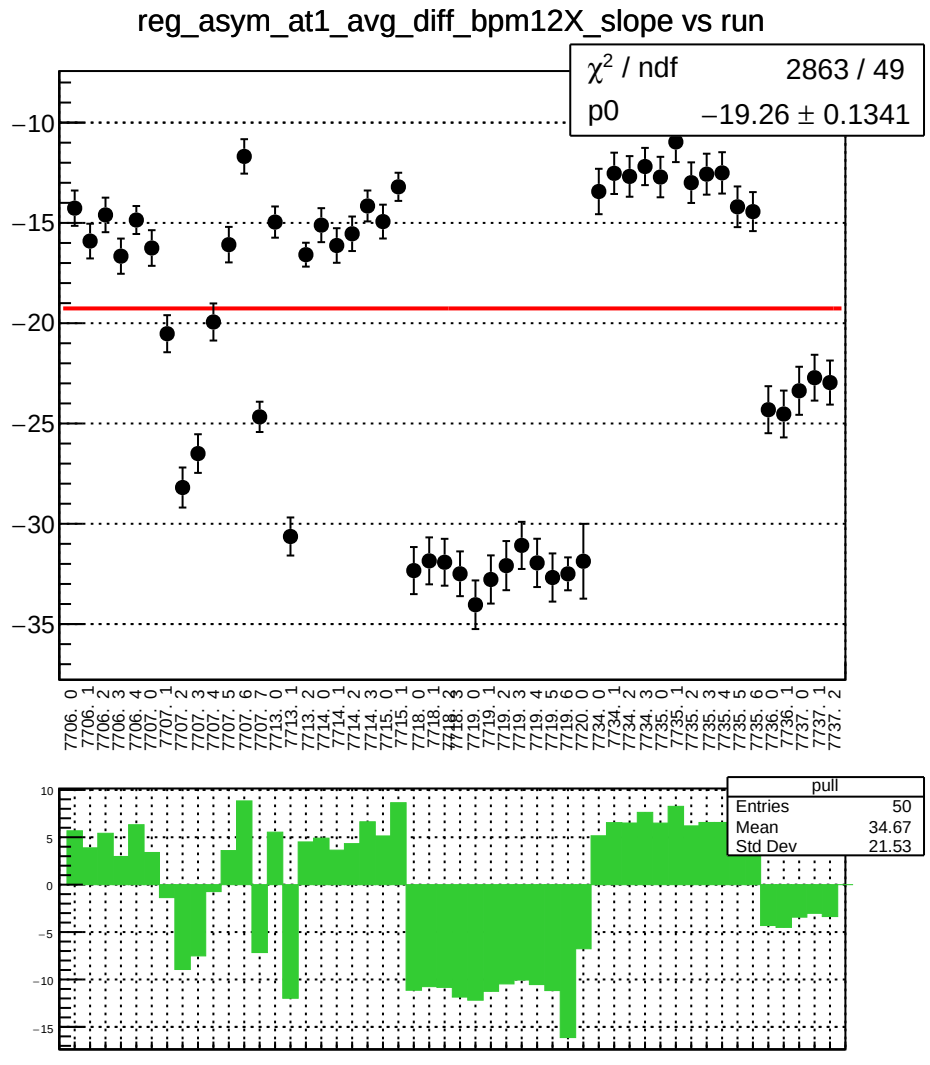

pull1D
Entries 50
Mean −0.08048
Std Dev 0.8926

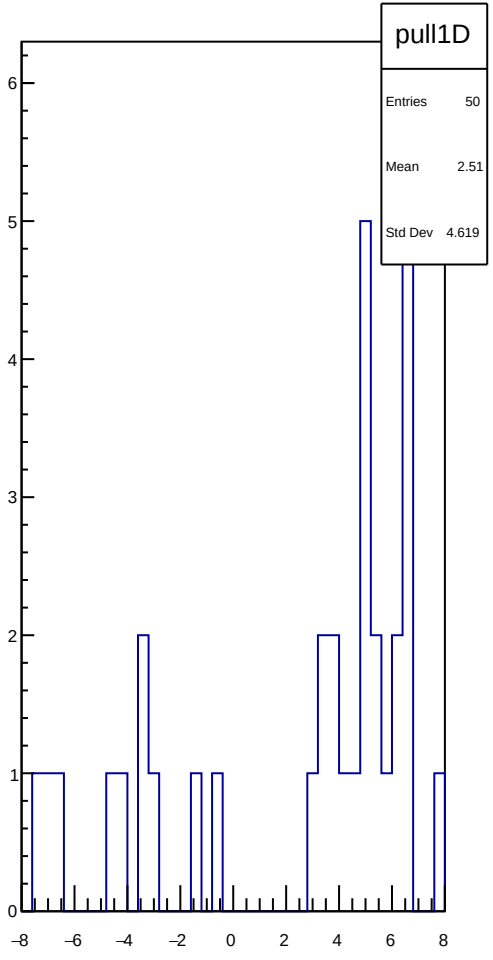

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 269.2 / 49
p0 39.84 ± 1.594
pull
Entries 50
Mean 30.49
Std Dev 19.94

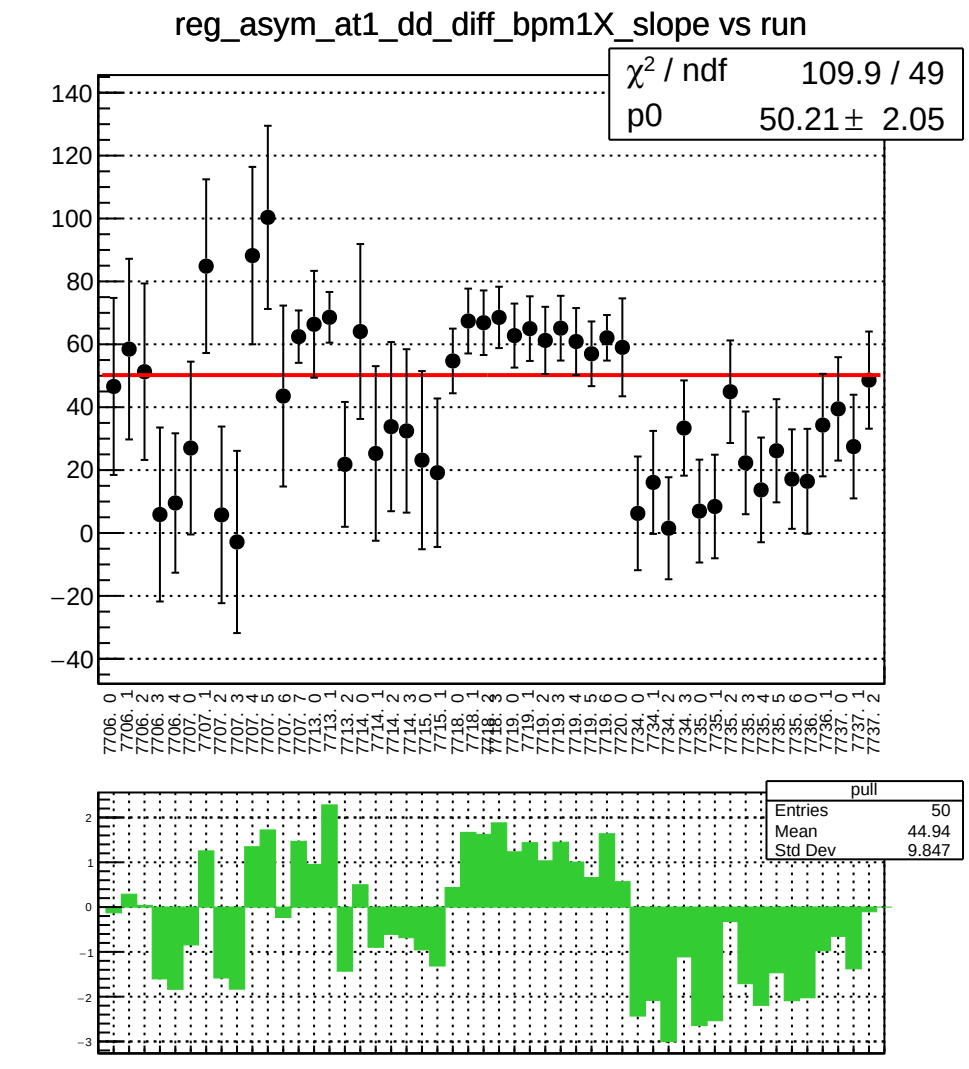

pull1D
Entries 50
Mean −0.9251
Std Dev 2.128

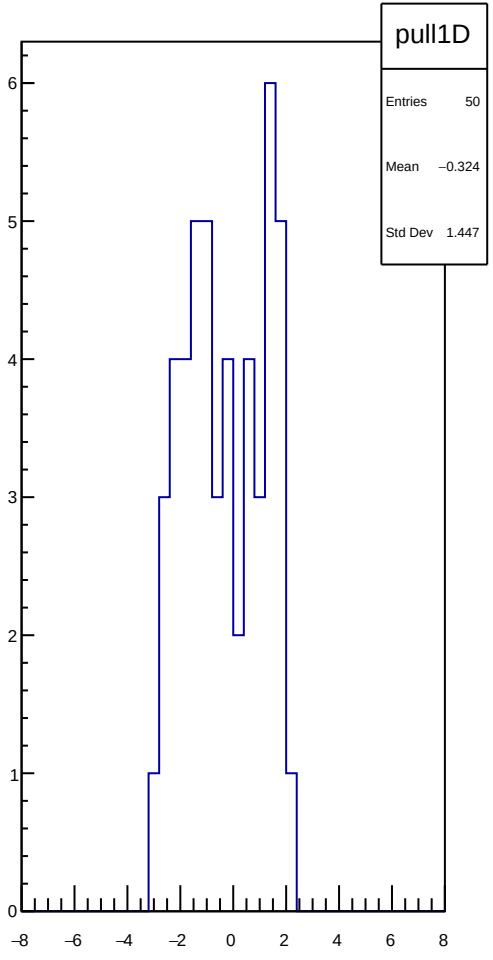

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.9 / 49
p0 −1.709 ± 3.164
pull
Entries 50
Mean 25.27
Std Dev 26.29

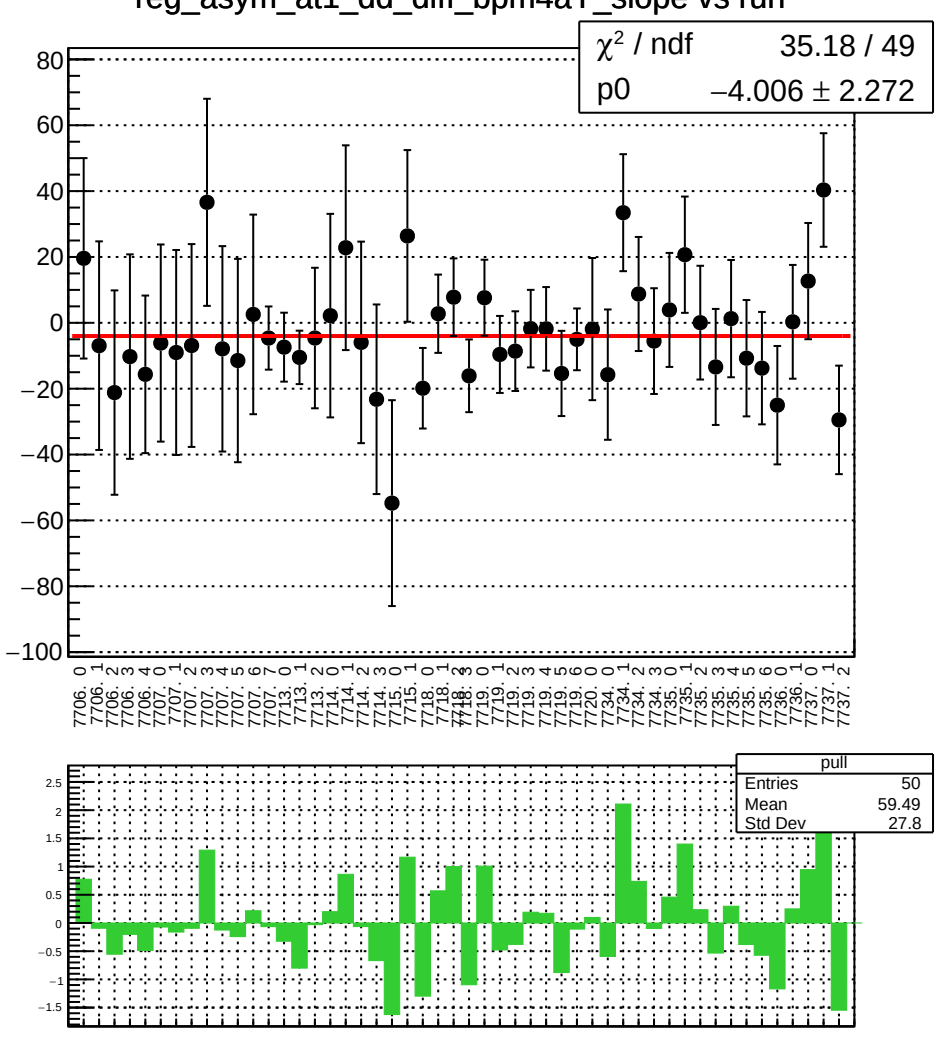

pull1D
Entries 50
Mean 0.05811
Std Dev 0.8571

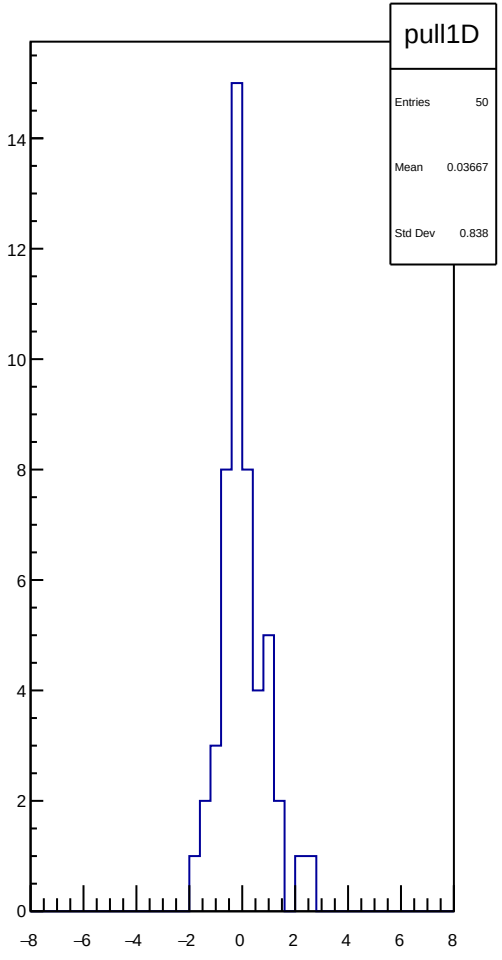

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 2863 / 49
p0 −19.26 ± 0.1341
pull
Entries 50
Mean 34.67
Std Dev 21.53

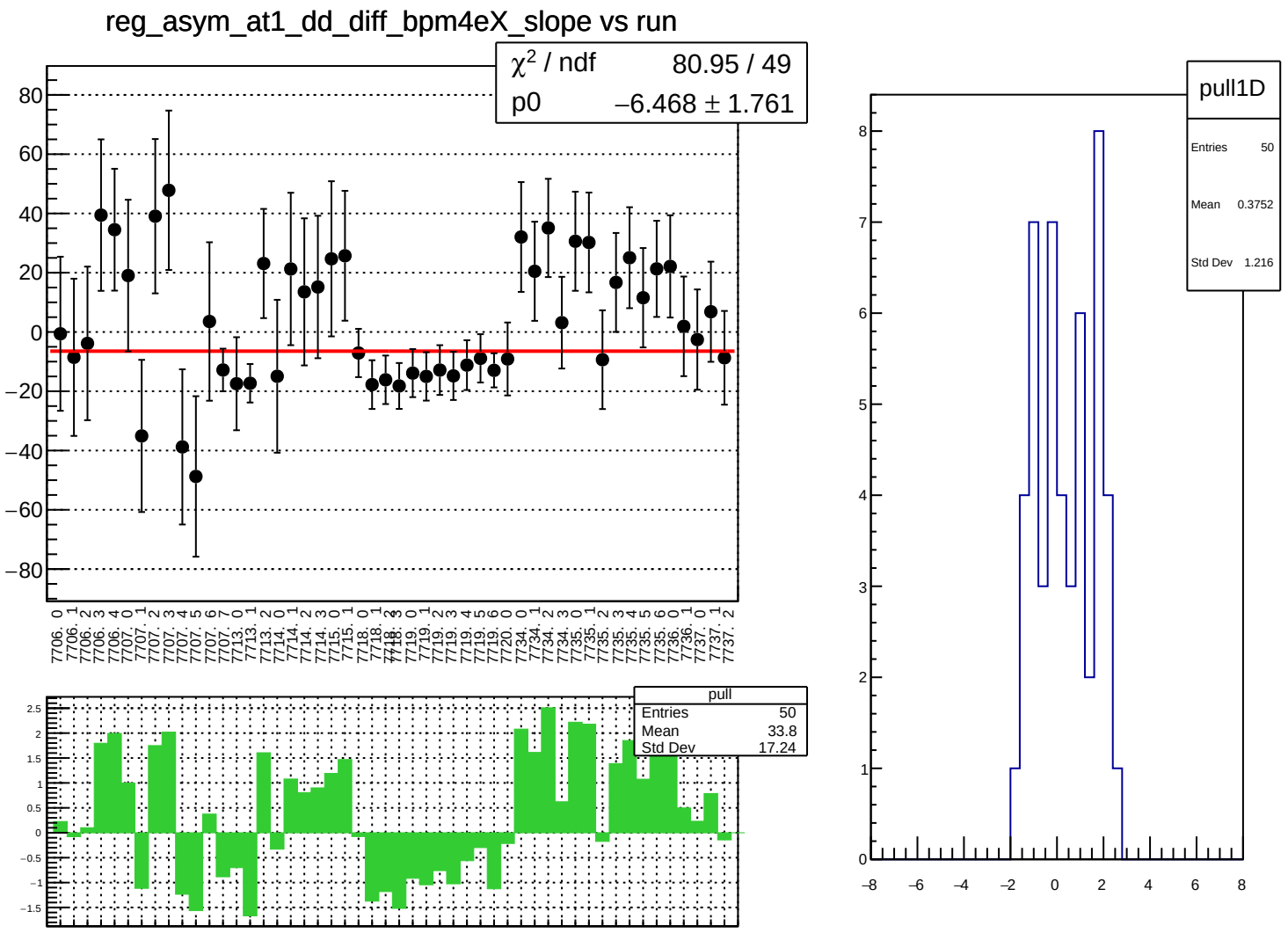

pull1D
Entries 50
Mean 2.51
Std Dev 4.619

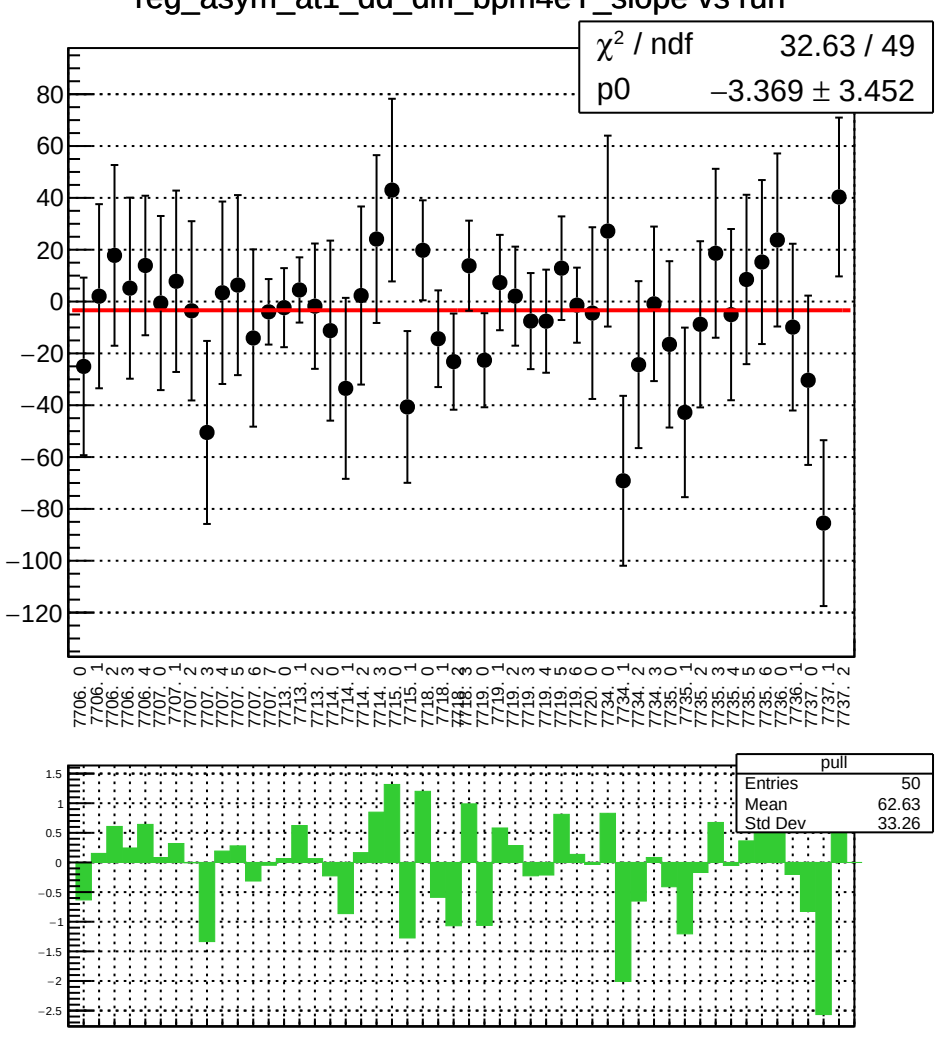

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 109.9 / 49
p0 50.21 ± 2.05
pull
Entries 50
Mean 44.94
Std Dev 9.847

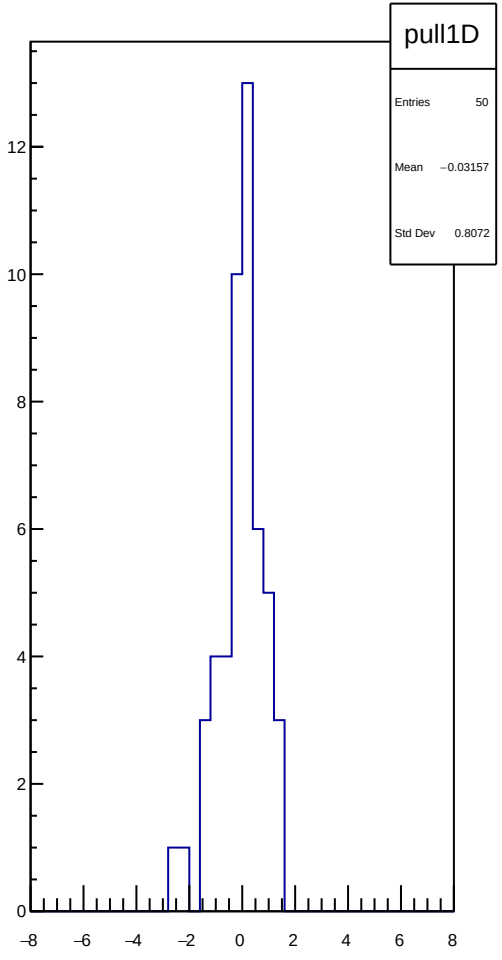

pull1D
Entries 50
Mean −0.324
Std Dev 1.447

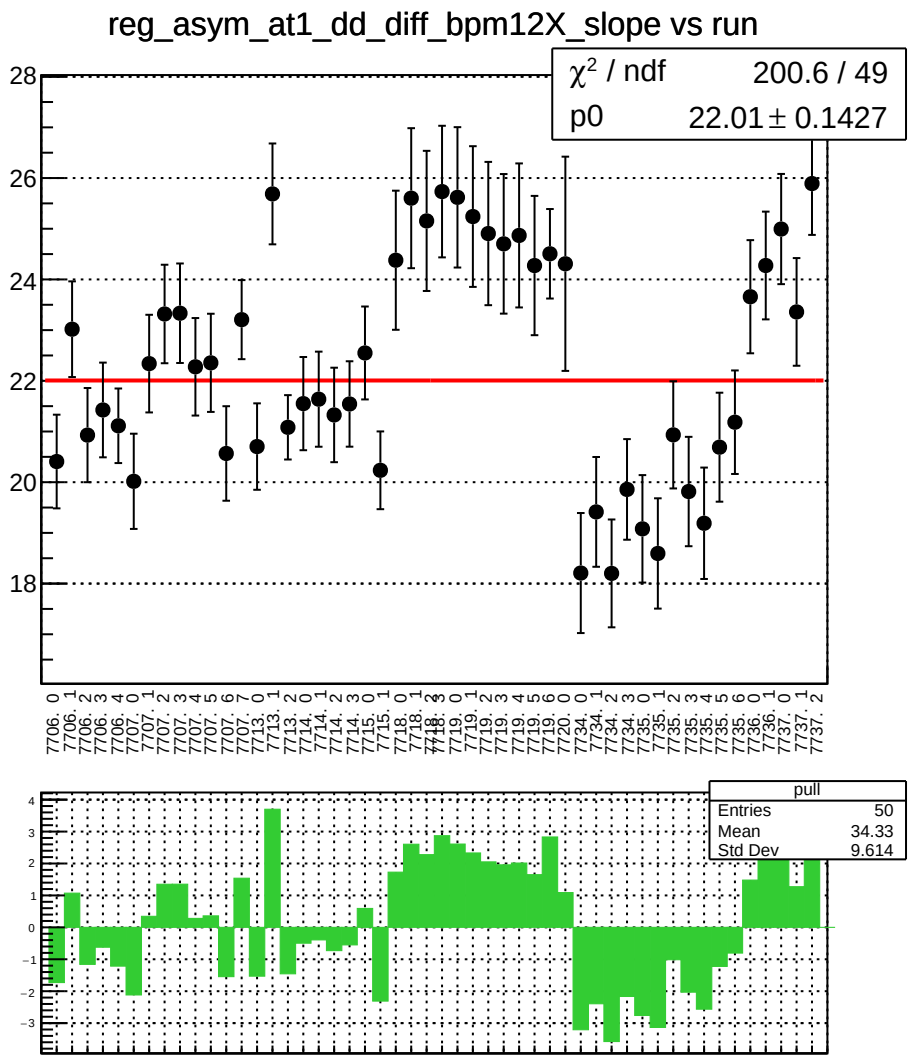

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.18 / 49
p0 −4.006 ± 2.272
pull
Entries 50
Mean 59.49
Std Dev 27.8

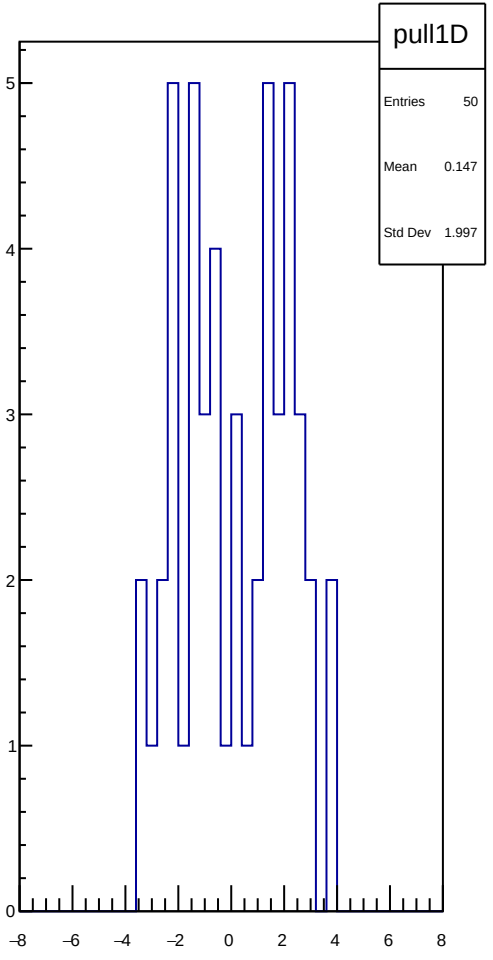

pull1D
Entries 50
Mean 0.03667
Std Dev 0.838

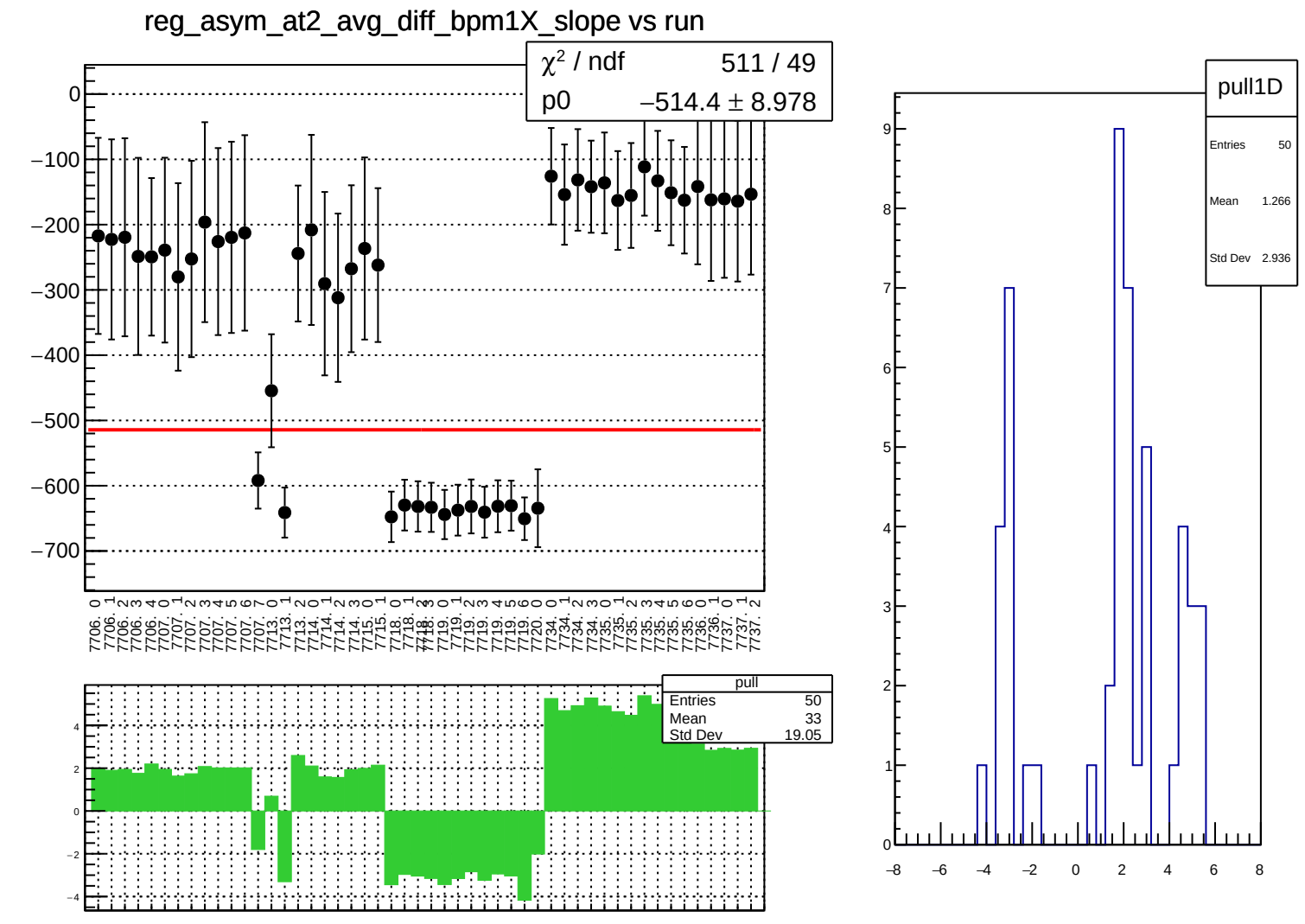

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.95 / 49
p0 −6.468 ± 1.761
pull
Entries 50
Mean 33.8
Std Dev 17.24
pull1D
Entries 50
Mean 0.3752
Std Dev 1.216

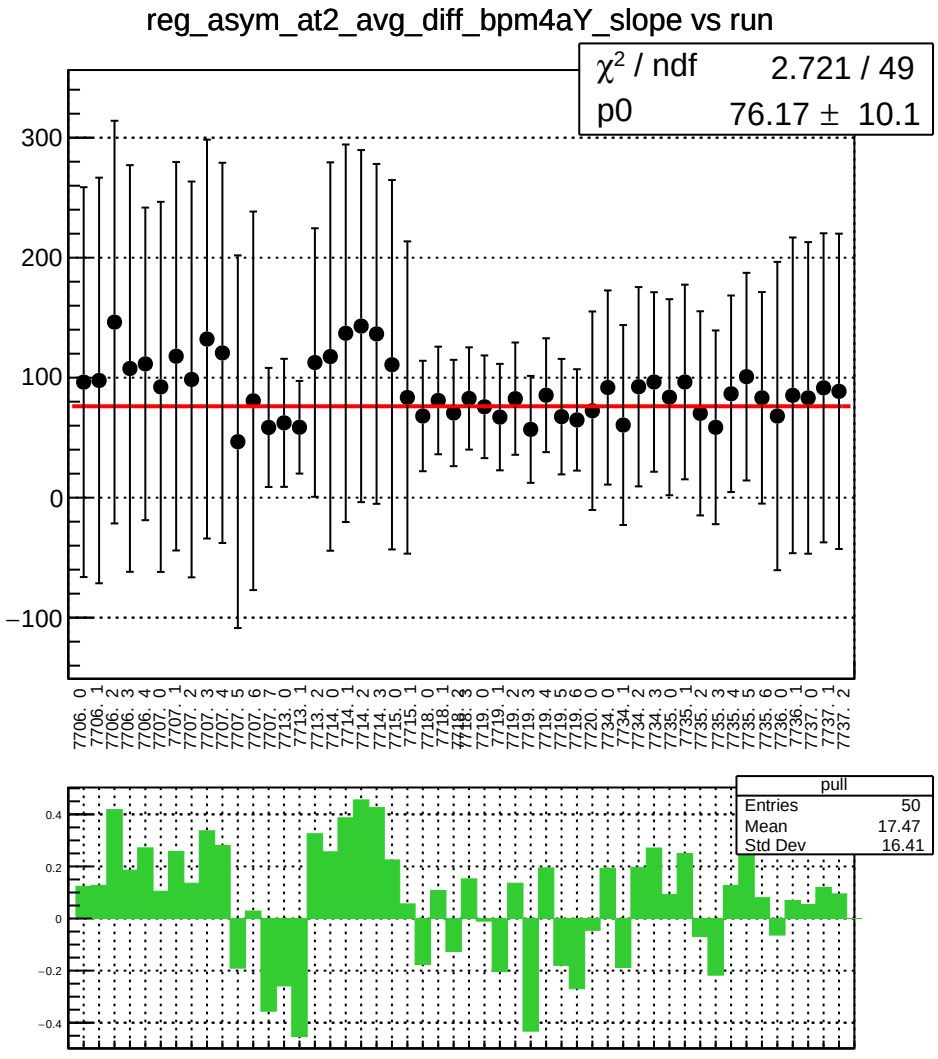

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.63 / 49
p0 −3.369 ± 3.452
pull
Entries 50
Mean 62.63
Std Dev 33.26

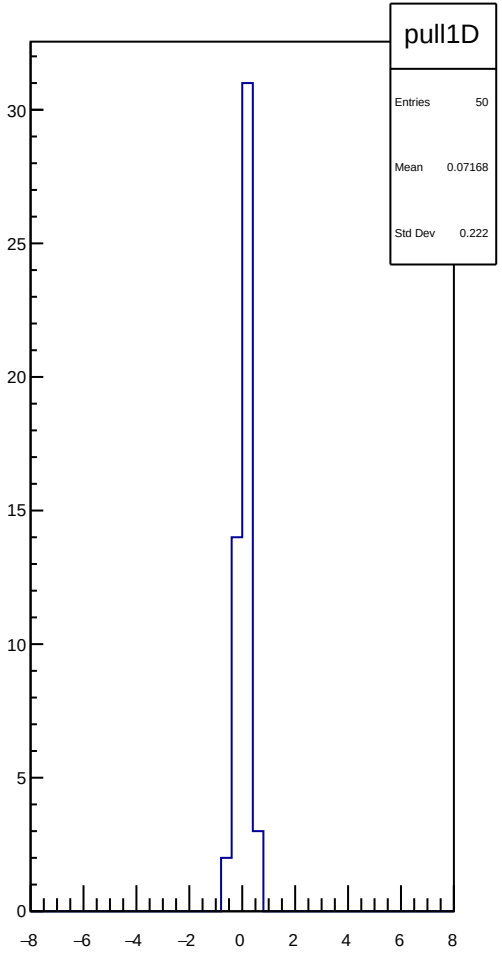

pull1D
Entries 50
Mean −0.03157
Std Dev 0.8072

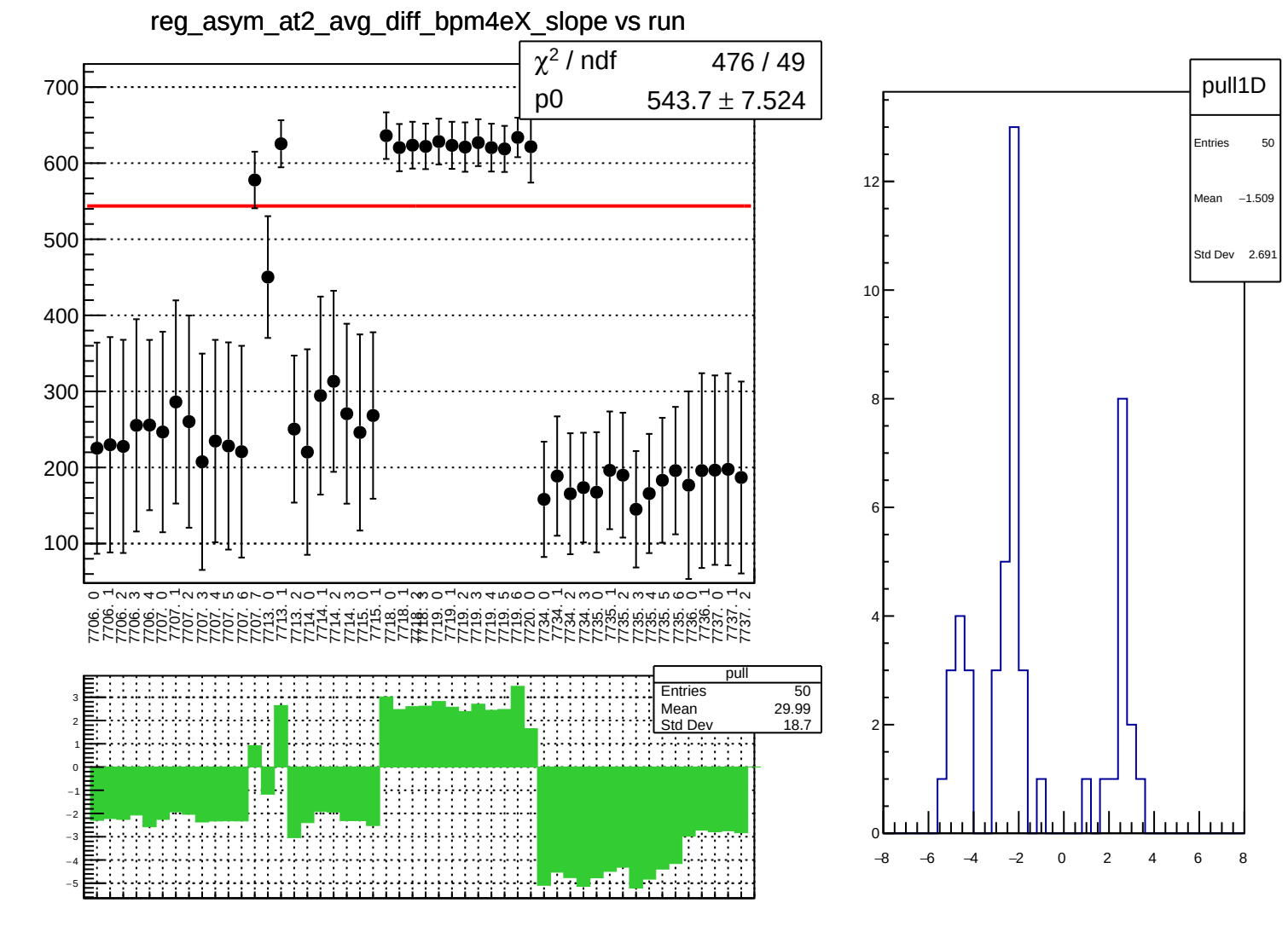

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 200.6 / 49
p0 22.01 ± 0.1427
pull
Entries 50
Mean 34.33
Std Dev 9.614

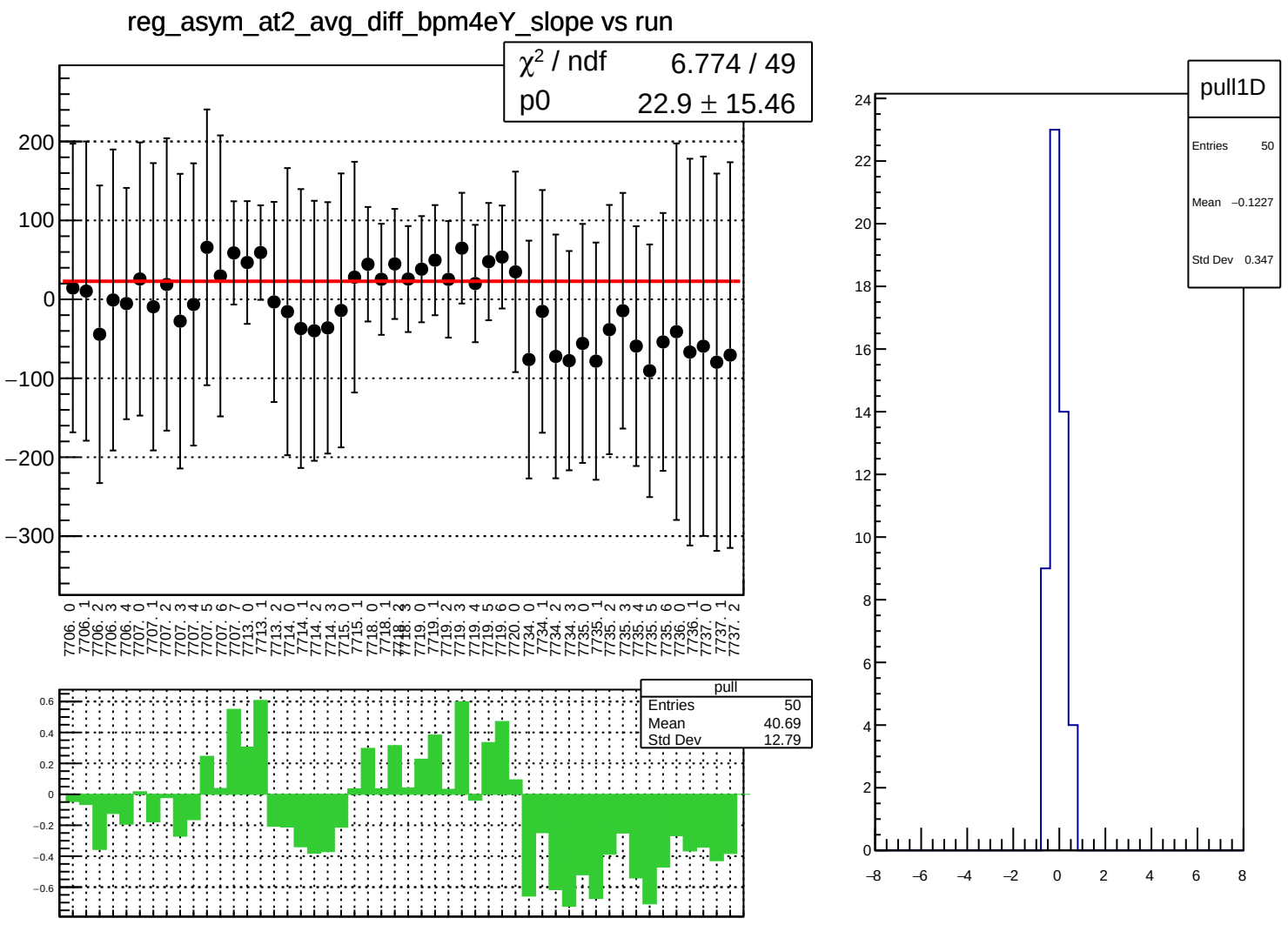

pull1D
Entries 50
Mean 0.147
Std Dev 1.997

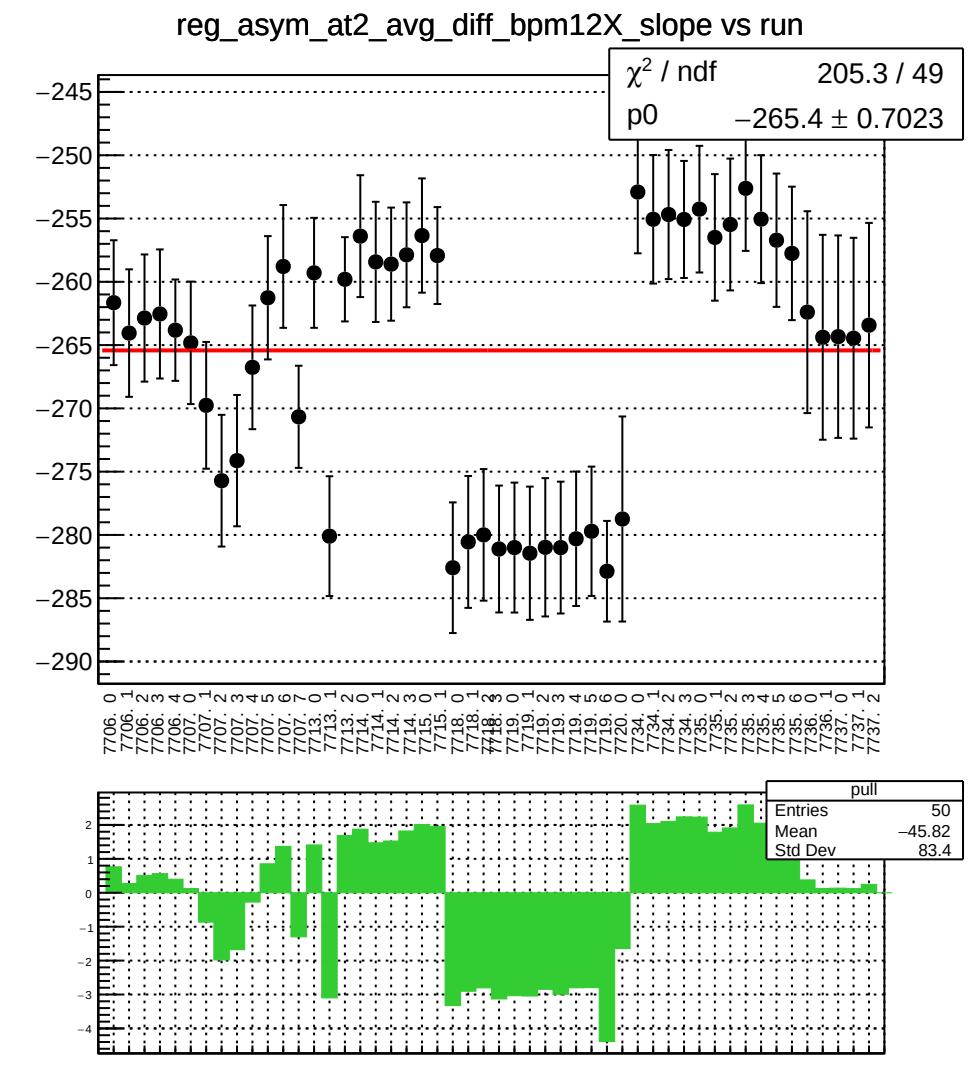

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 511 / 49
p0 −514.4 ± 8.978
0
−100
−200
−300
−400
−500
−600
−700
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 33
Std Dev 19.05
4
2
0
−2
−4
pull1D
Entries 50
Mean 1.266
Std Dev 2.936
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

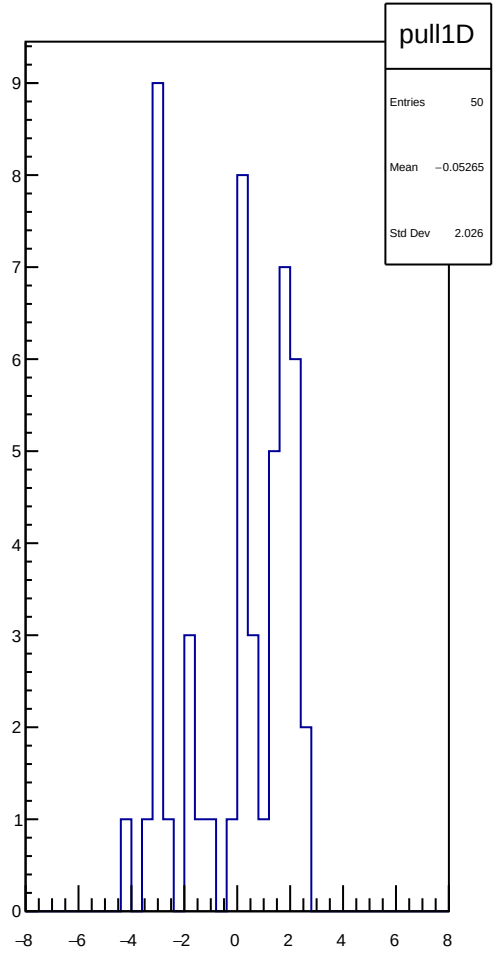

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.721 / 49
p0 76.17 ± 10.1
300
200
100
0
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 17.47
Std Dev 16.41
0.4
0.2
0
−0.2
−0.4

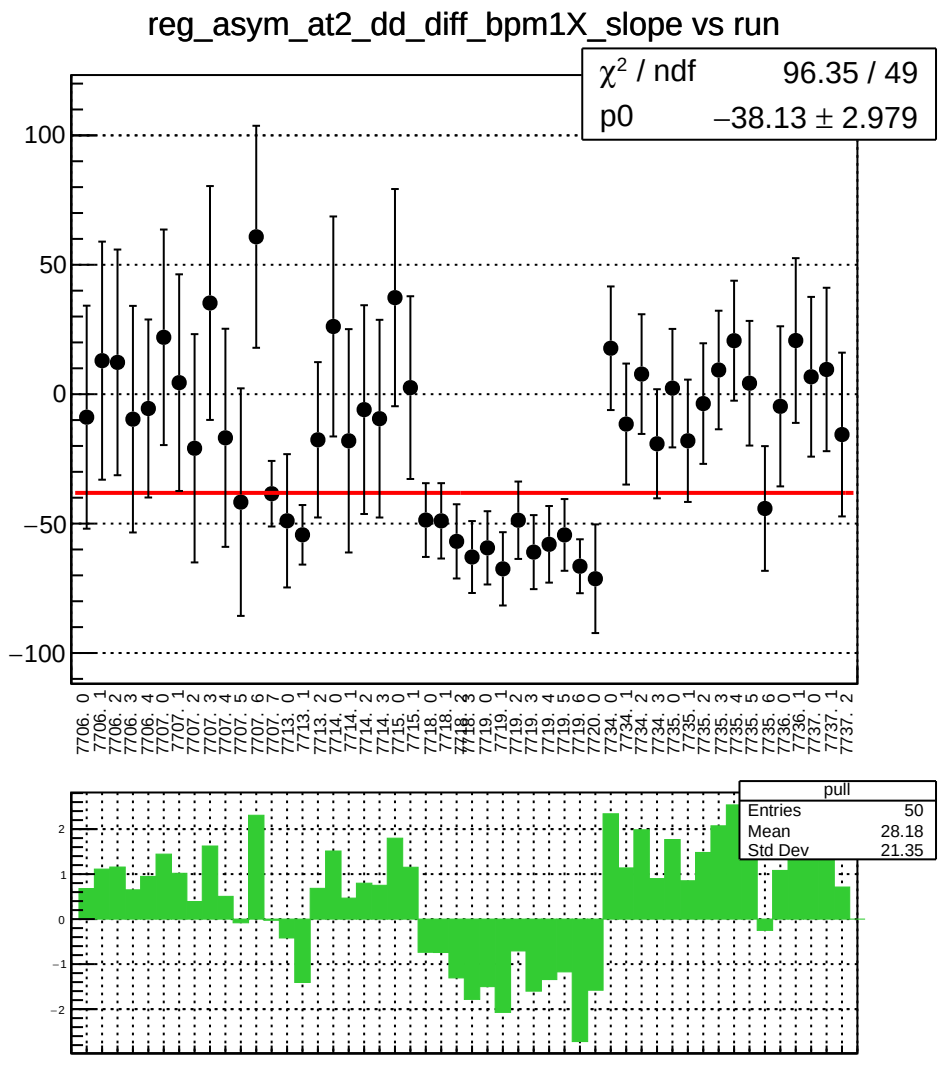

pull1D
Entries 50
Mean 0.07168
Std Dev 0.222
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

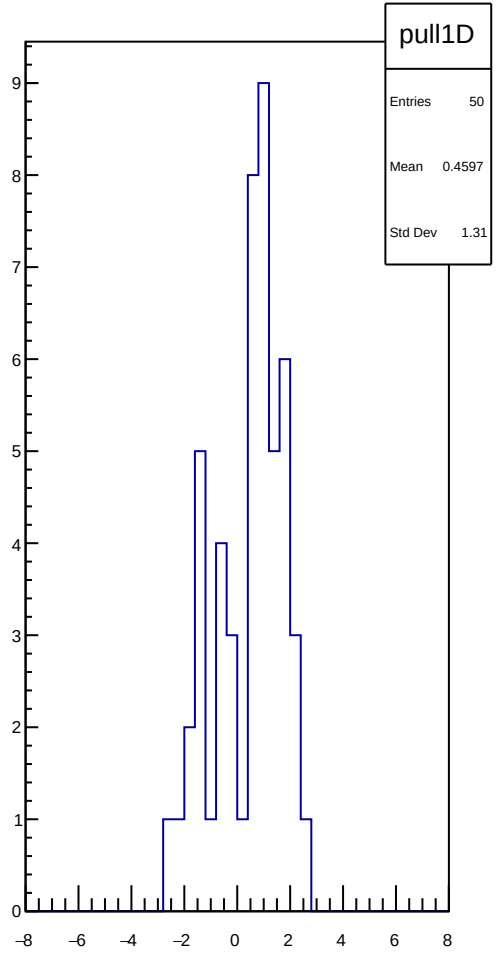

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 476 / 49
p0 543.7 ± 7.524
700
600
500
400
300
200
100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 29.99
Std Dev 18.7
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 50
Mean −1.509
Std Dev 2.691
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

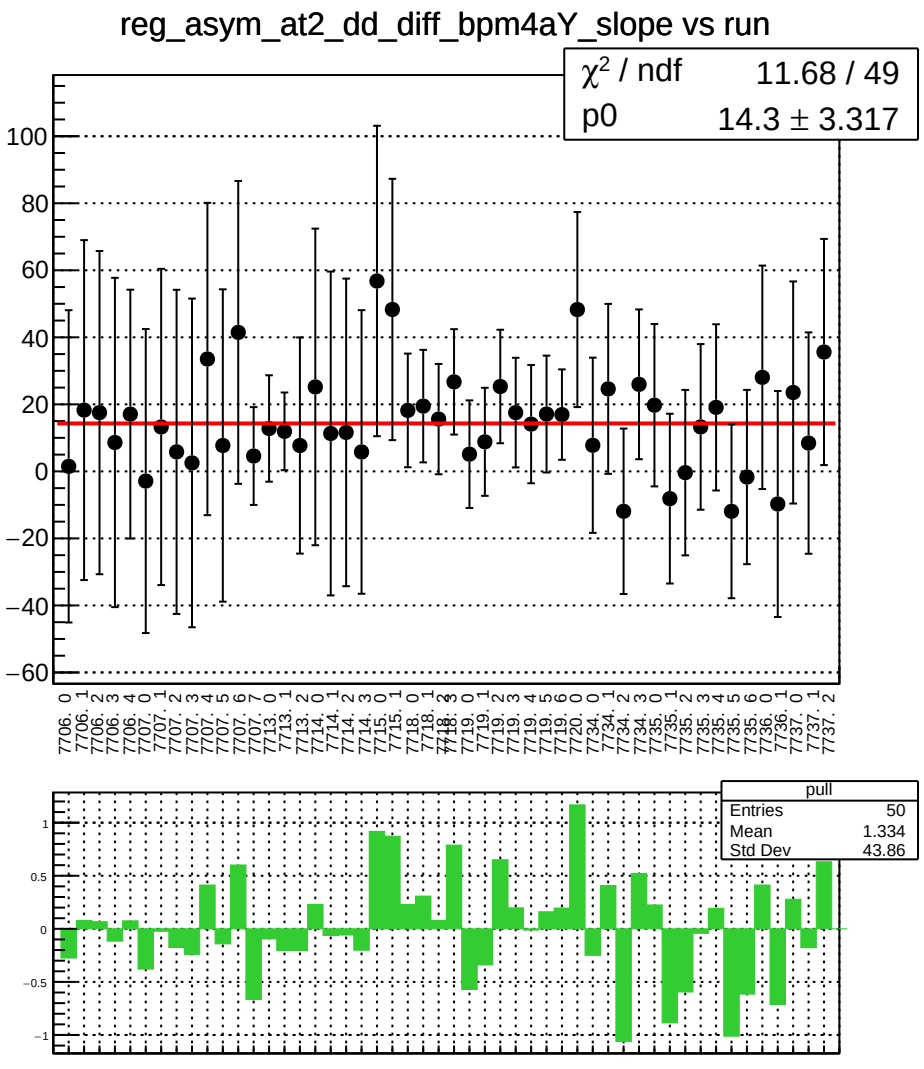

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.774 / 49
p0 22.9 ± 15.46
200
100
0
−100
−200
−300
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 40.69
Std Dev 12.79
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 50
Mean −0.1227
Std Dev 0.347
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

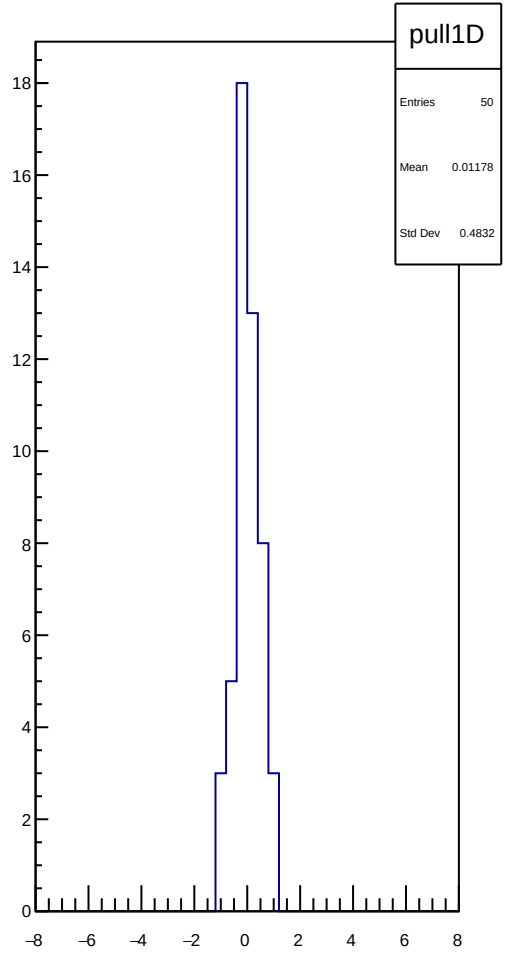

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 205.3 / 49
p0 −265.4 ± 0.7023
pull
Entries 50
Mean −45.82
Std Dev 83.4

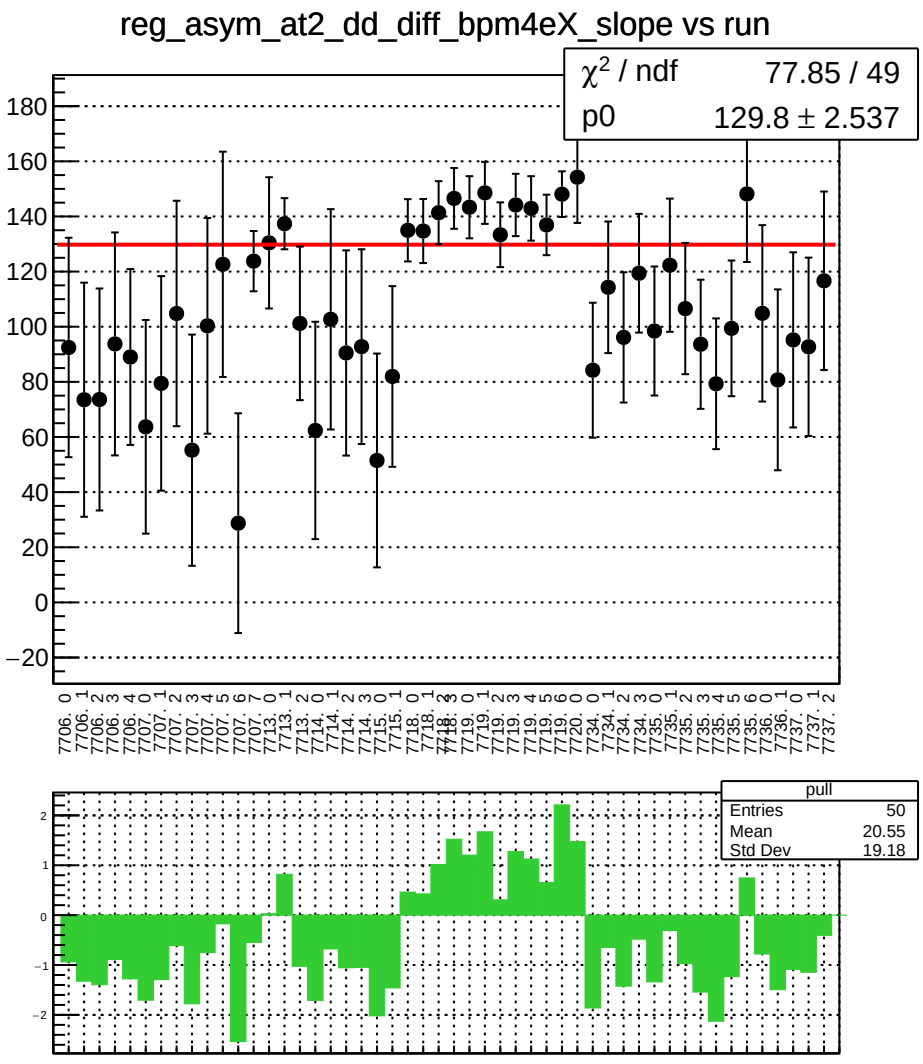

pull1D
Entries 50
Mean −0.05265
Std Dev 2.026

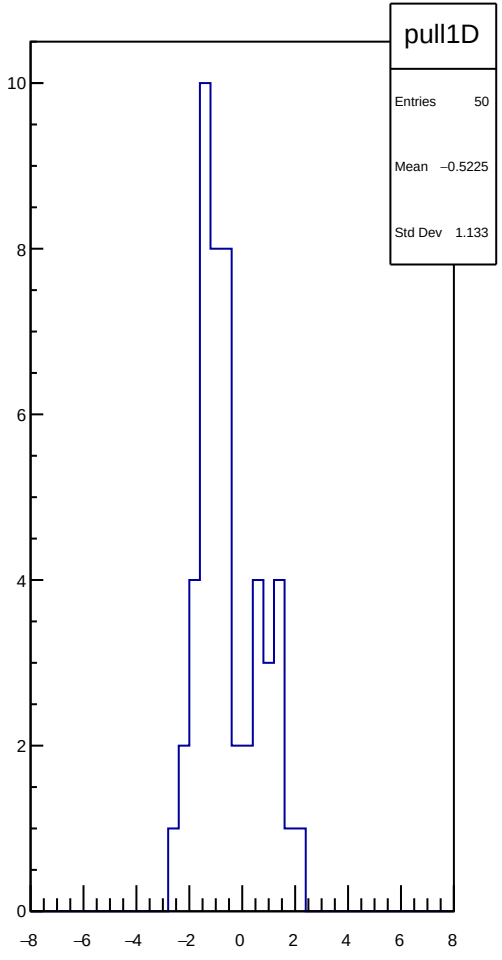

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 96.35 / 49
p0 −38.13 ± 2.979
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 28.18
Std Dev 21.35
2
1
0
−1
−2

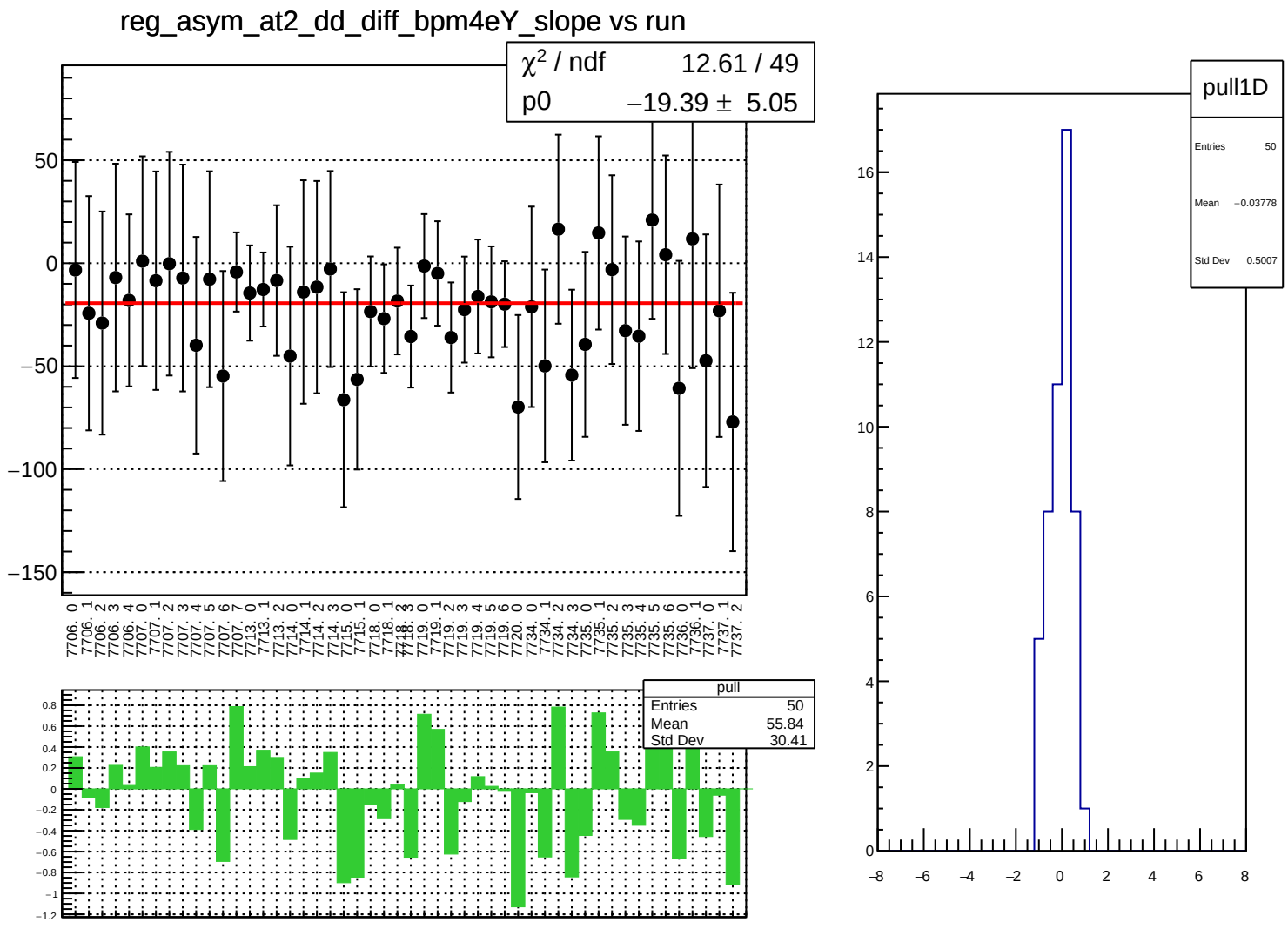

pull1D
Entries 50
Mean 0.4597
Std Dev 1.31
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

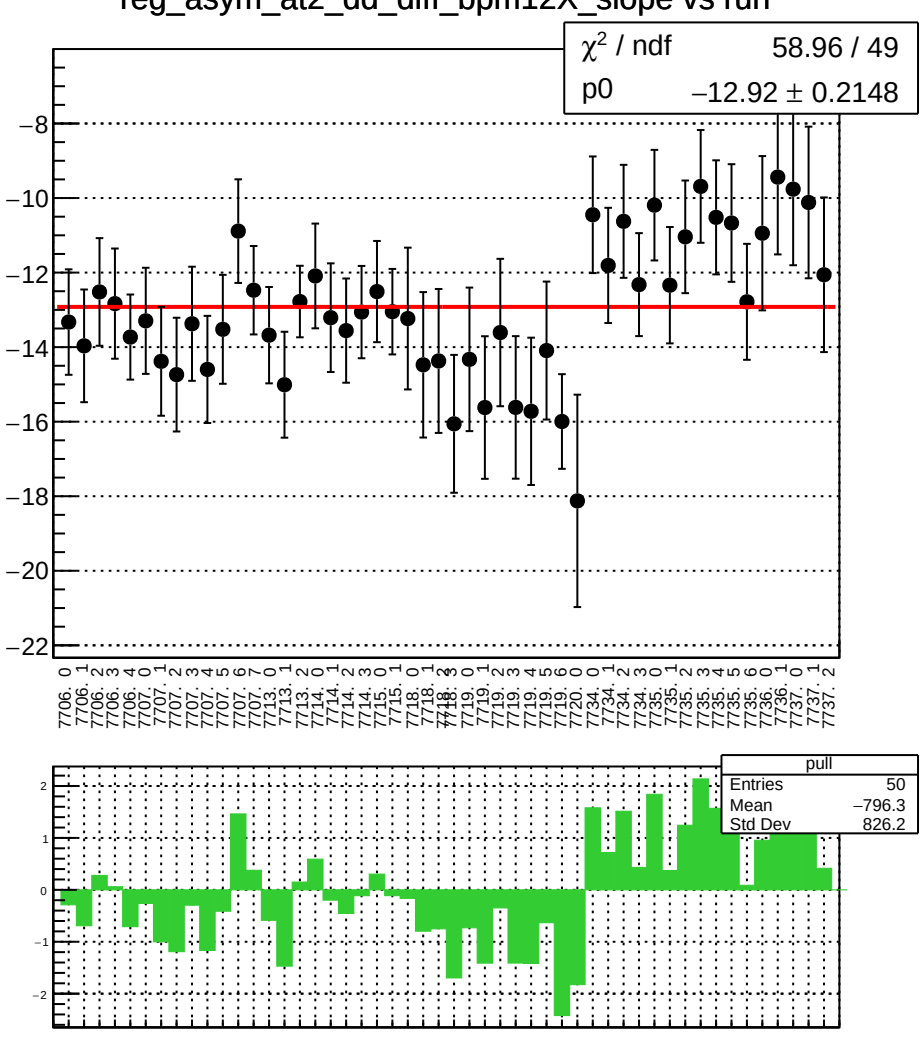

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.68 / 49
p0 14.3 ± 3.317
pull
Entries 50
Mean 1.334
Std Dev 43.86

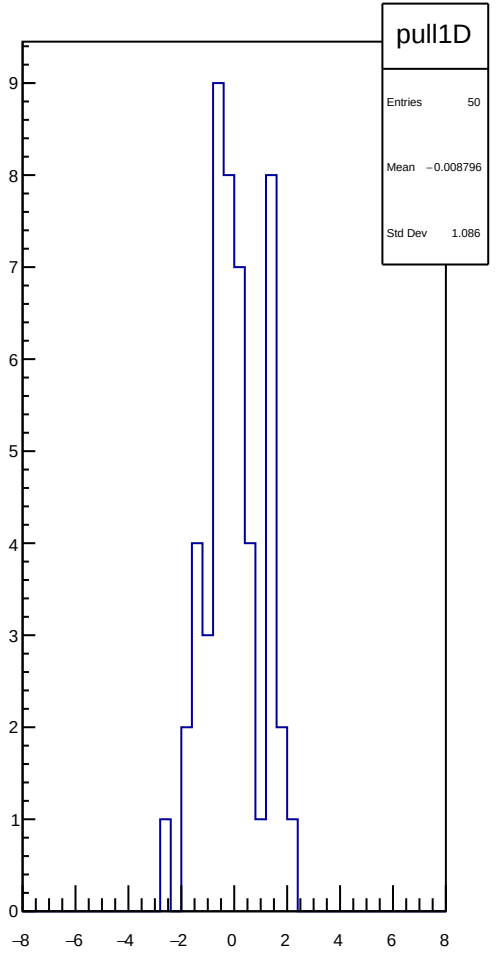

pull1D
Entries 50
Mean 0.01178
Std Dev 0.4832

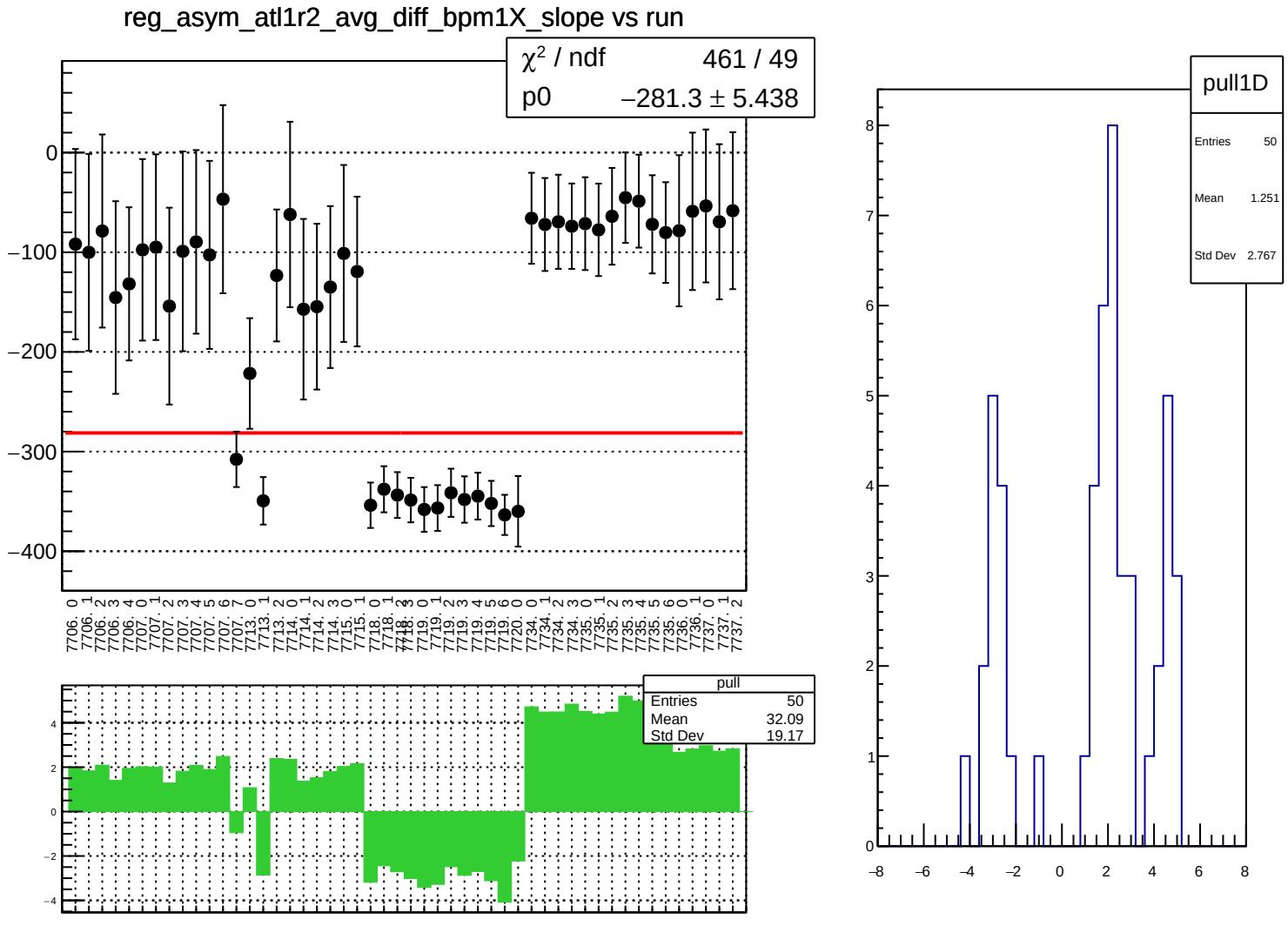

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 77.85 / 49
p0 129.8 ± 2.537
pull
Entries 50
Mean 20.55
Std Dev 19.18

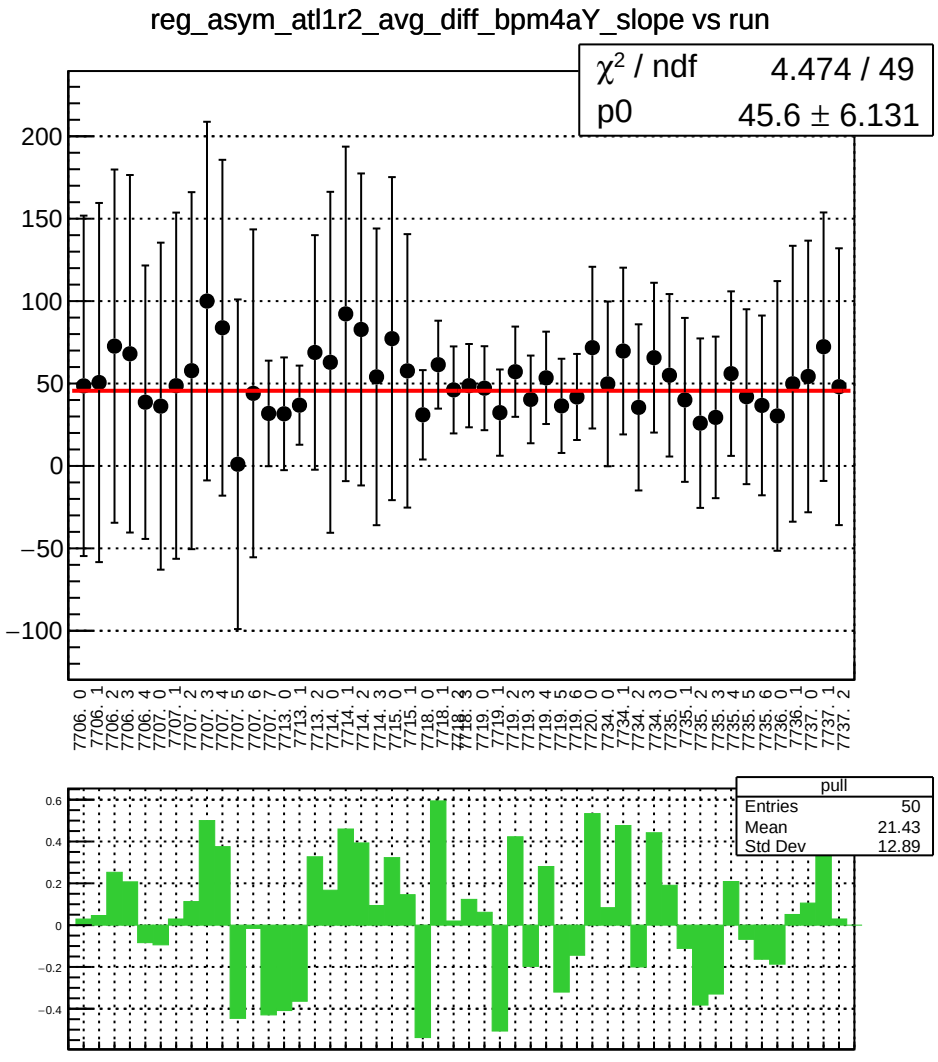

pull1D
Entries 50
Mean −0.5225
Std Dev 1.133

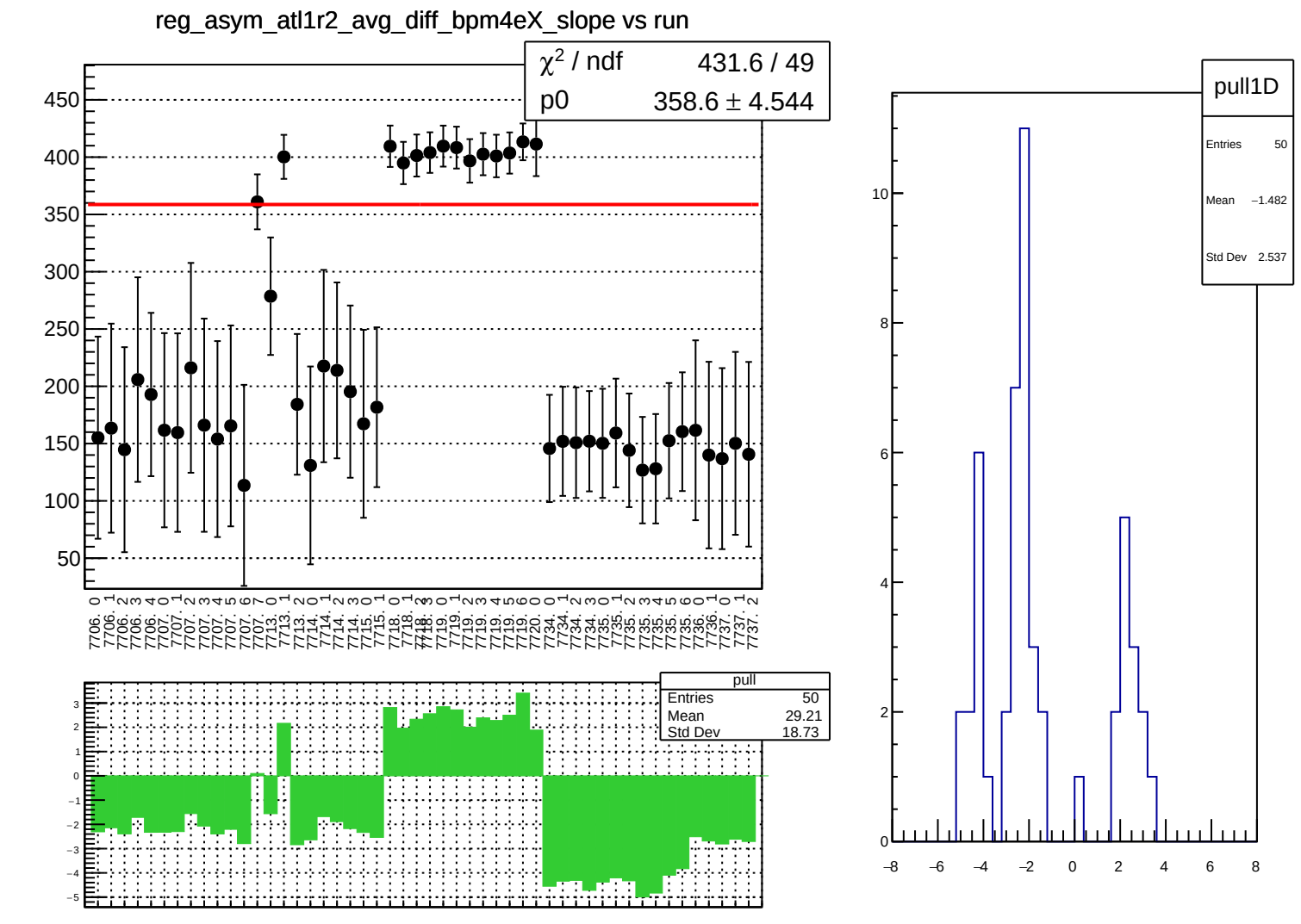

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.61 / 49
p0 −19.39 ± 5.05
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 55.84
Std Dev 30.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 50
Mean −0.03778
Std Dev 0.5007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

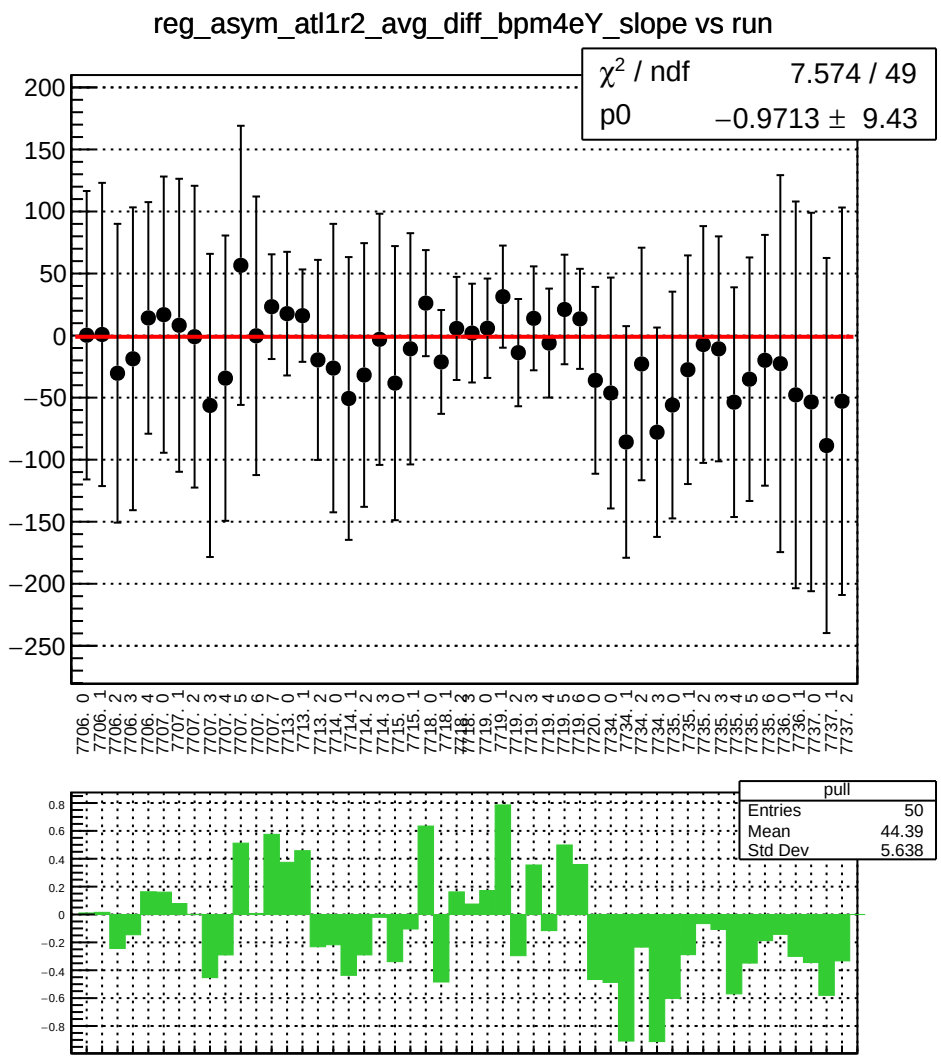

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 58.96 / 49
p0 −12.92 ± 0.2148
pull
Entries 50
Mean −796.3
Std Dev 826.2

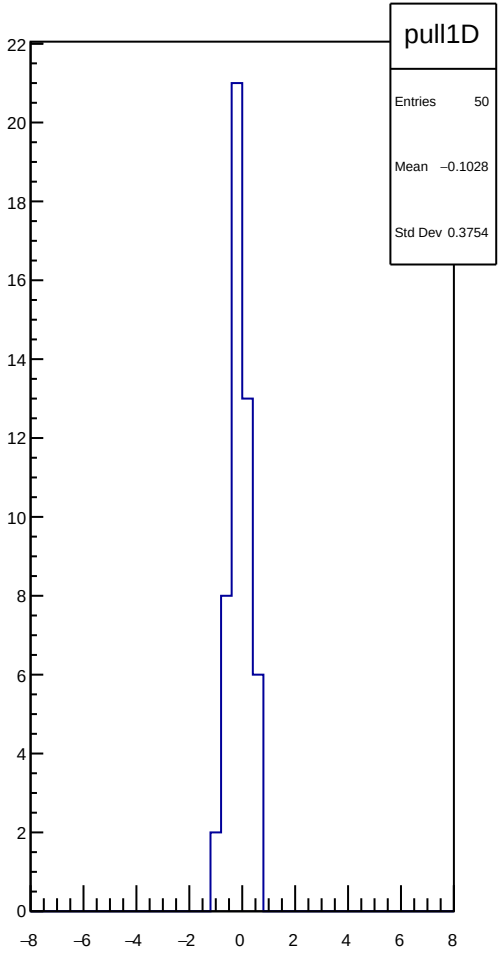

pull1D
Entries 50
Mean −0.008796
Std Dev 1.086

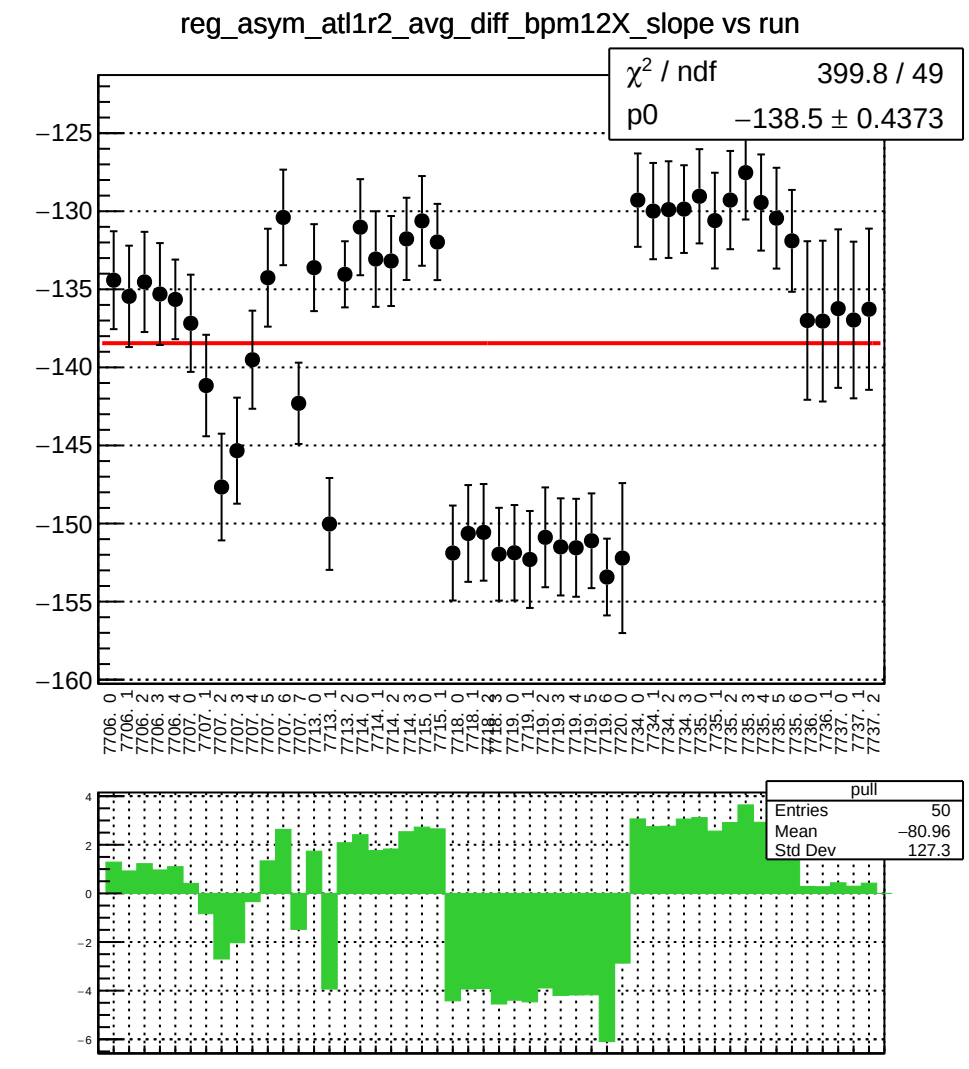

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 461 / 49
p0 −281.3 ± 5.438
0
−100
−200
−300
−400
pull
Entries 50
Mean 32.09
Std Dev 19.17
pull1D
Entries 50
Mean 1.251
Std Dev 2.767

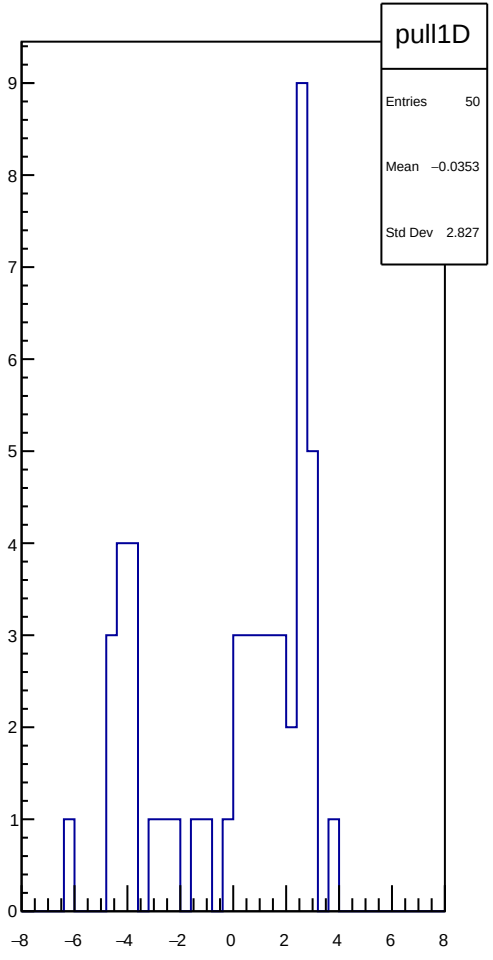

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.474 / 49
p0 45.6 ± 6.131
200
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 21.43
Std Dev 12.89
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.04849
Std Dev 0.2952
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

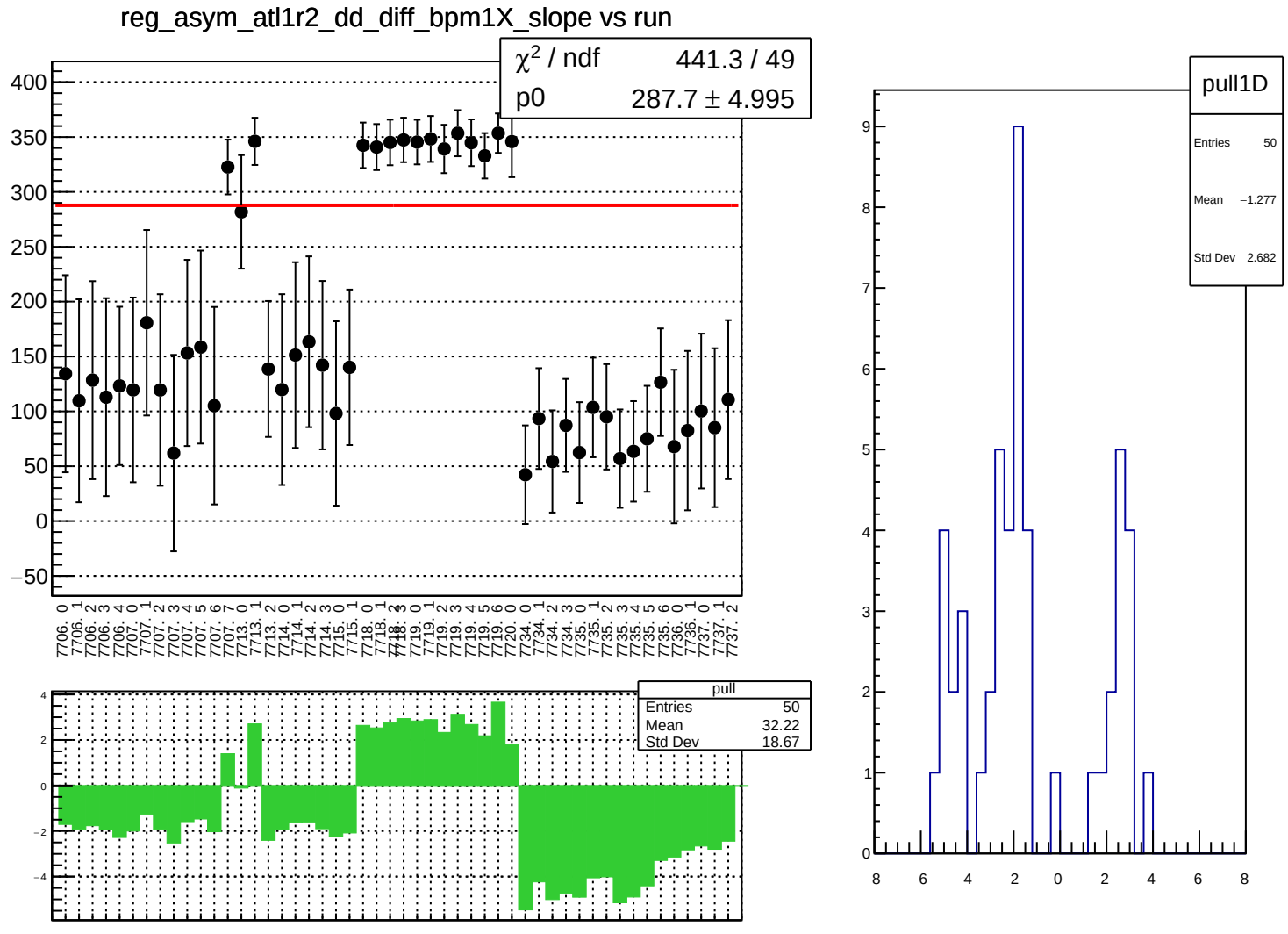

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 431.6 / 49
p0 358.6 ± 4.544
pull
Entries 50
Mean 29.21
Std Dev 18.73
pull1D
Entries 50
Mean −1.482
Std Dev 2.537

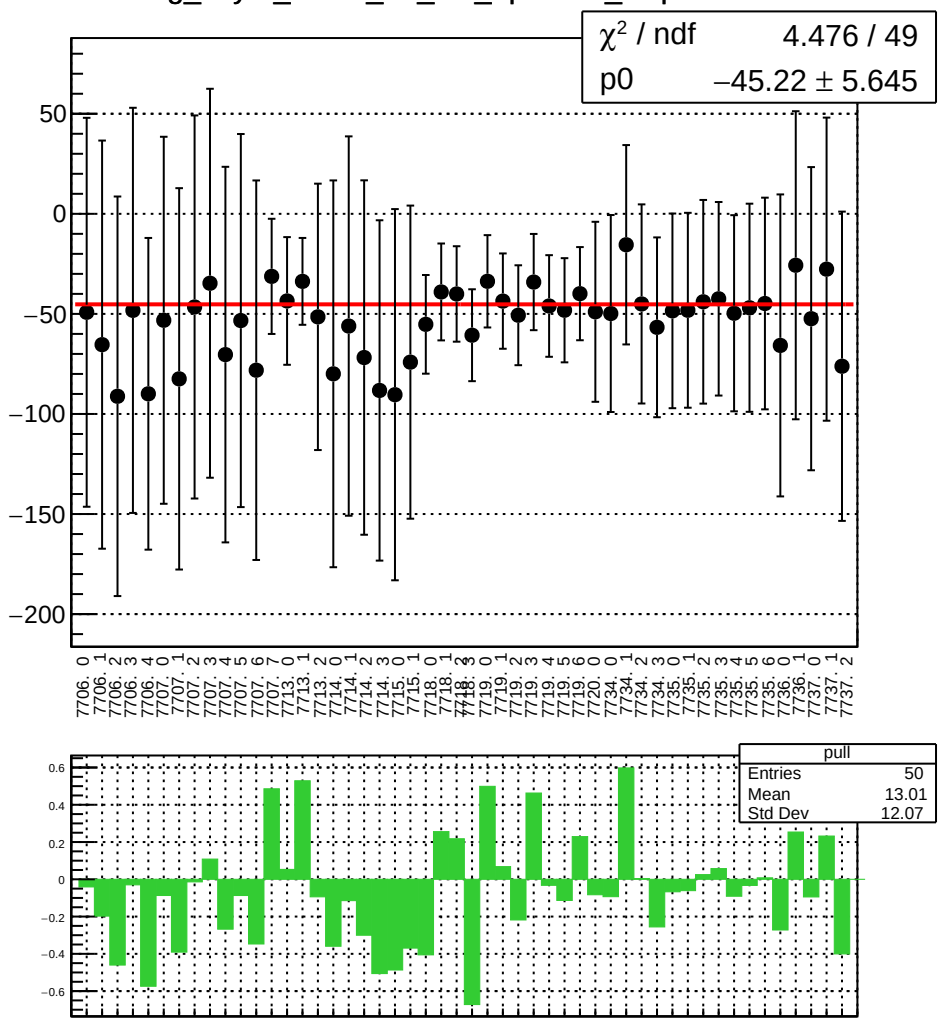

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.574 / 49
p0 −0.9713 ± 9.43
pull
Entries 50
Mean 44.39
Std Dev 5.638

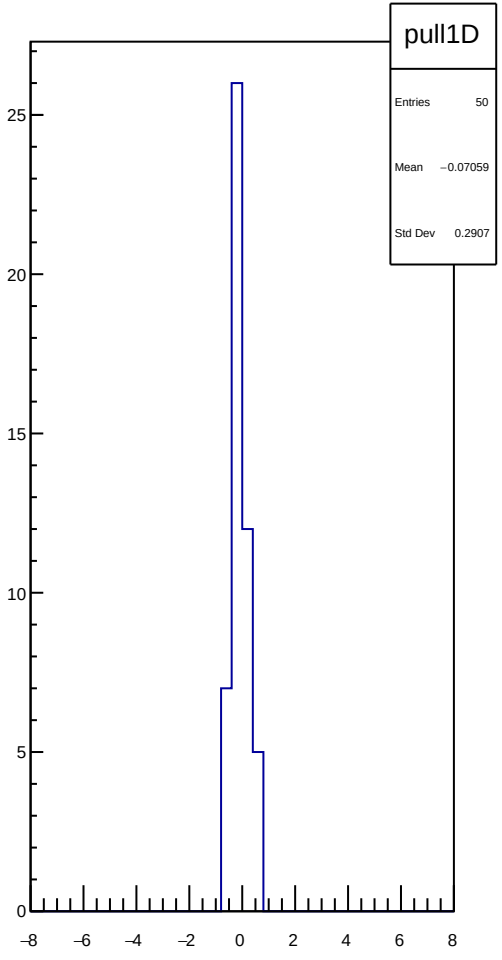

pull1D
Entries 50
Mean −0.1028
Std Dev 0.3754

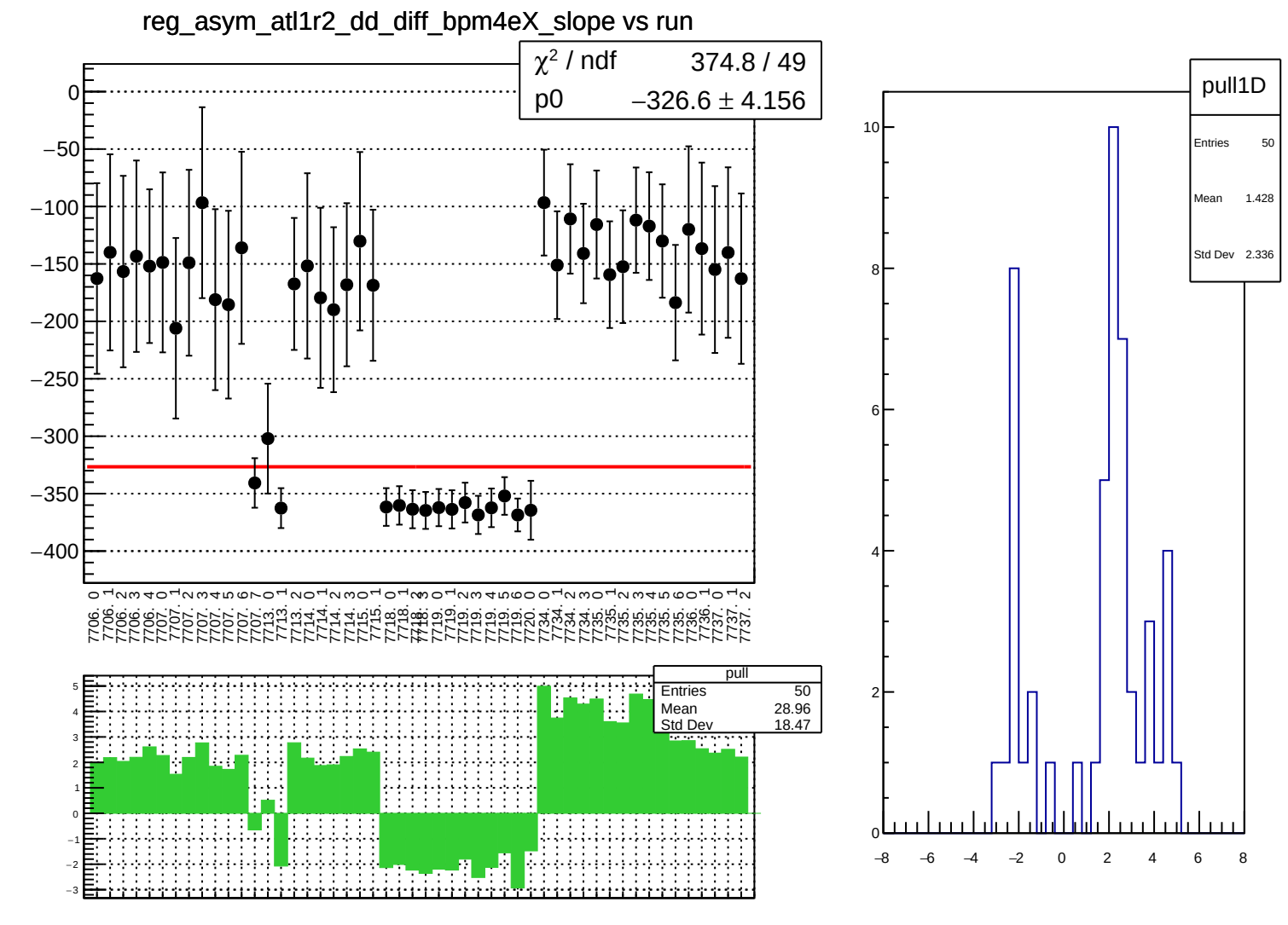

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 399.8 / 49
p0 −138.5 ± 0.4373
pull
Entries 50
Mean −80.96
Std Dev 127.3

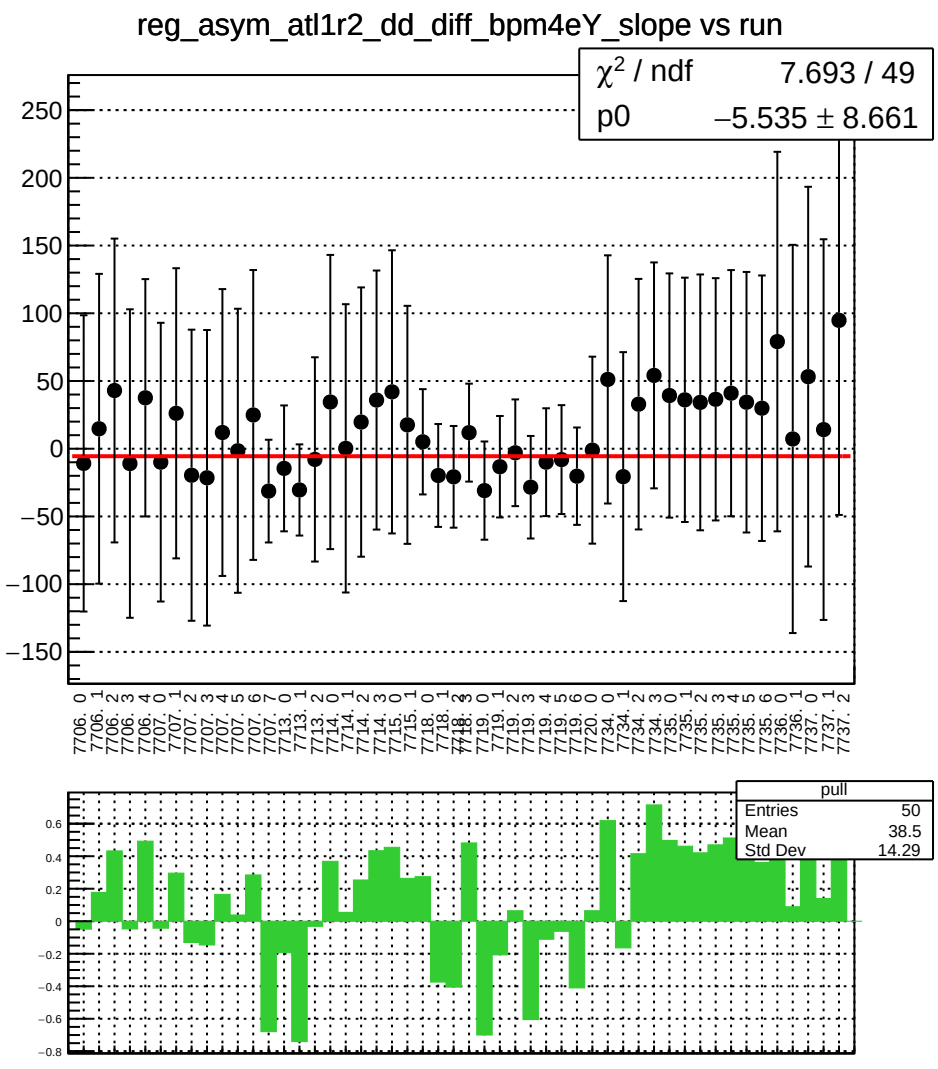

pull1D
Entries 50
Mean −0.0353
Std Dev 2.827

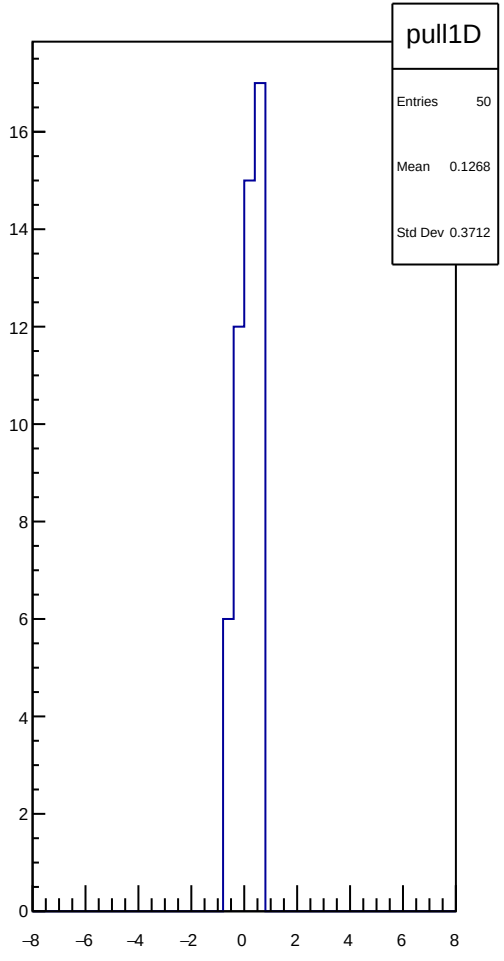

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 441.3 / 49
p0 287.7 ± 4.995
pull
Entries 50
Mean 32.22
Std Dev 18.67
pull1D
Entries 50
Mean −1.277
Std Dev 2.682

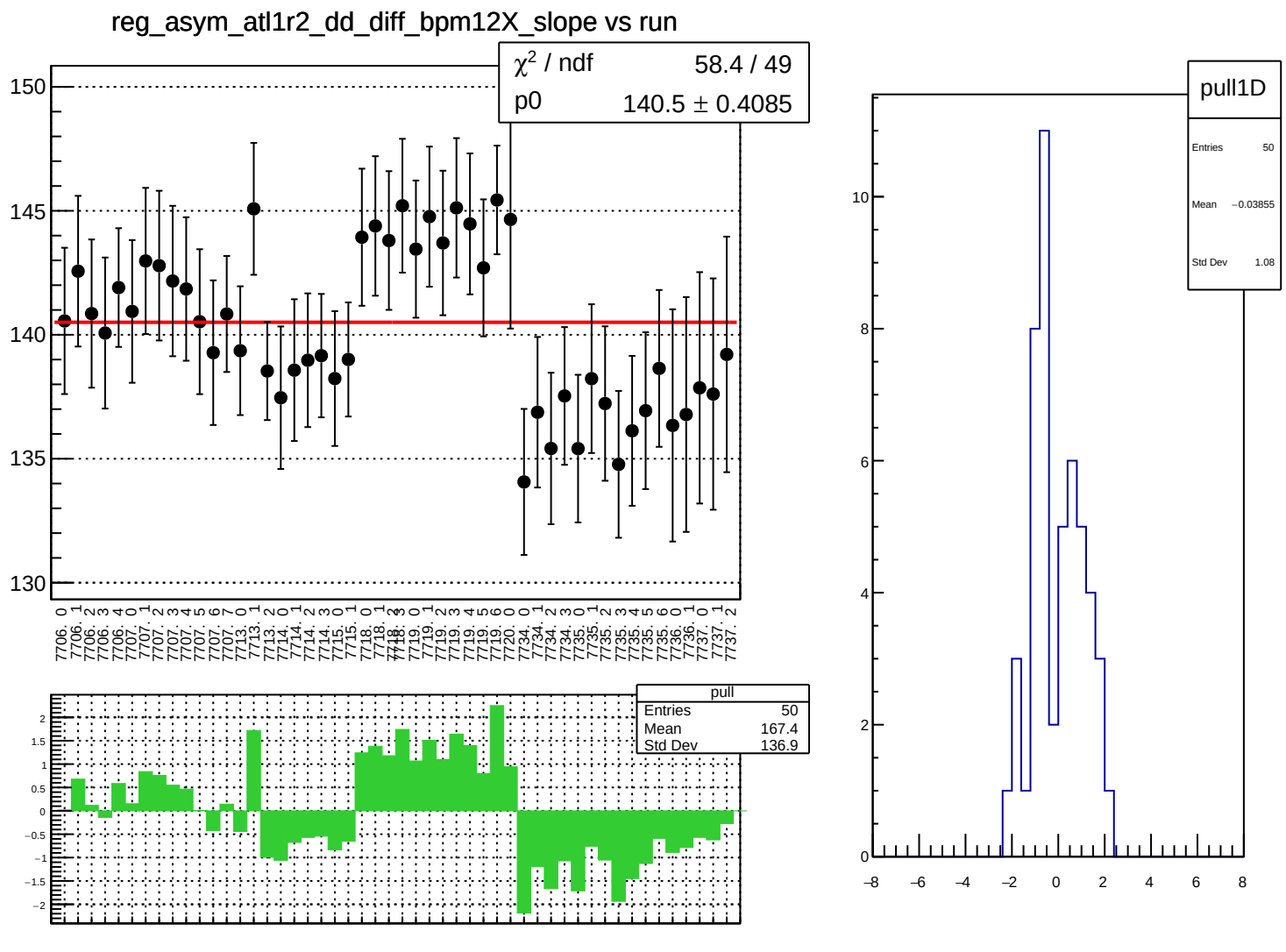

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.476 / 49
p0 −45.22 ± 5.645
pull
Entries 50
Mean 13.01
Std Dev 12.07

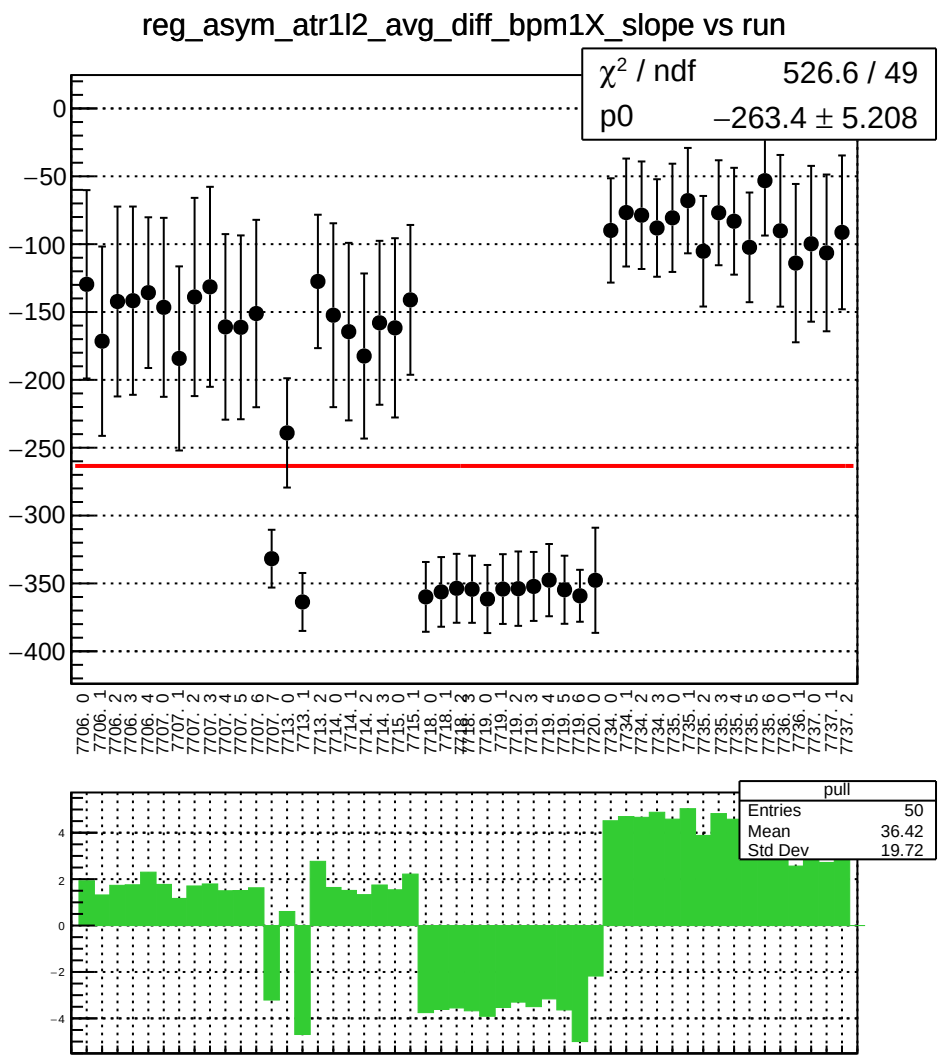

pull1D
Entries 50
Mean −0.07059
Std Dev 0.2907

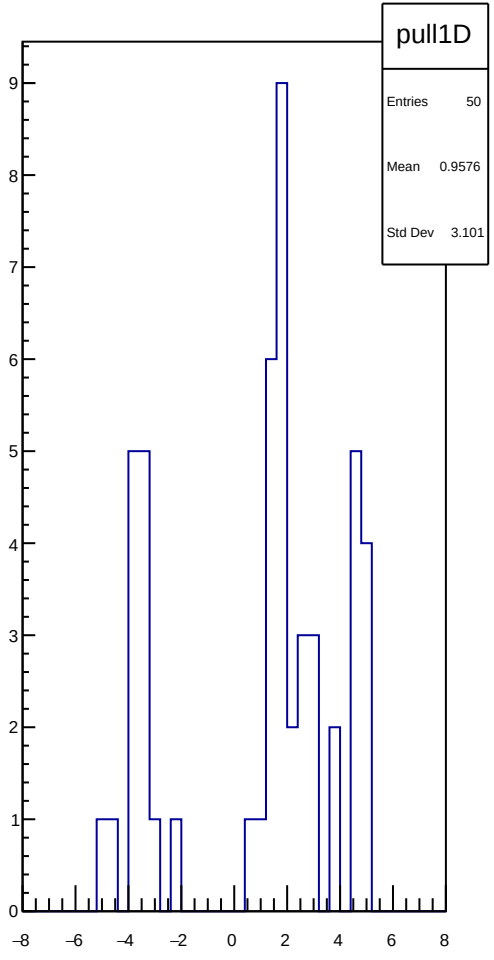

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 374.8 / 49
p0 −326.6 ± 4.156
pull
Entries 50
Mean 28.96
Std Dev 18.47
pull1D
Entries 50
Mean 1.428
Std Dev 2.336

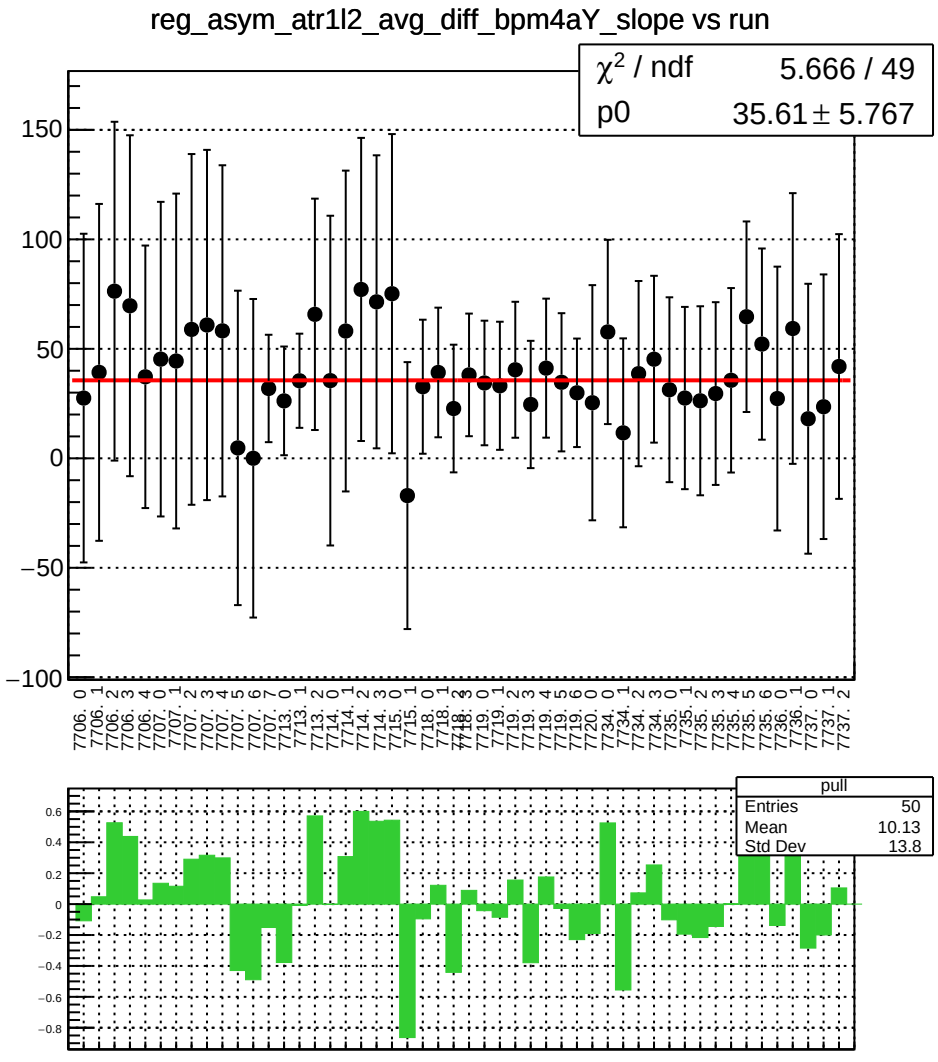

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.693 / 49
p0 −5.535 ± 8.661
pull
Entries 50
Mean 38.5
Std Dev 14.29

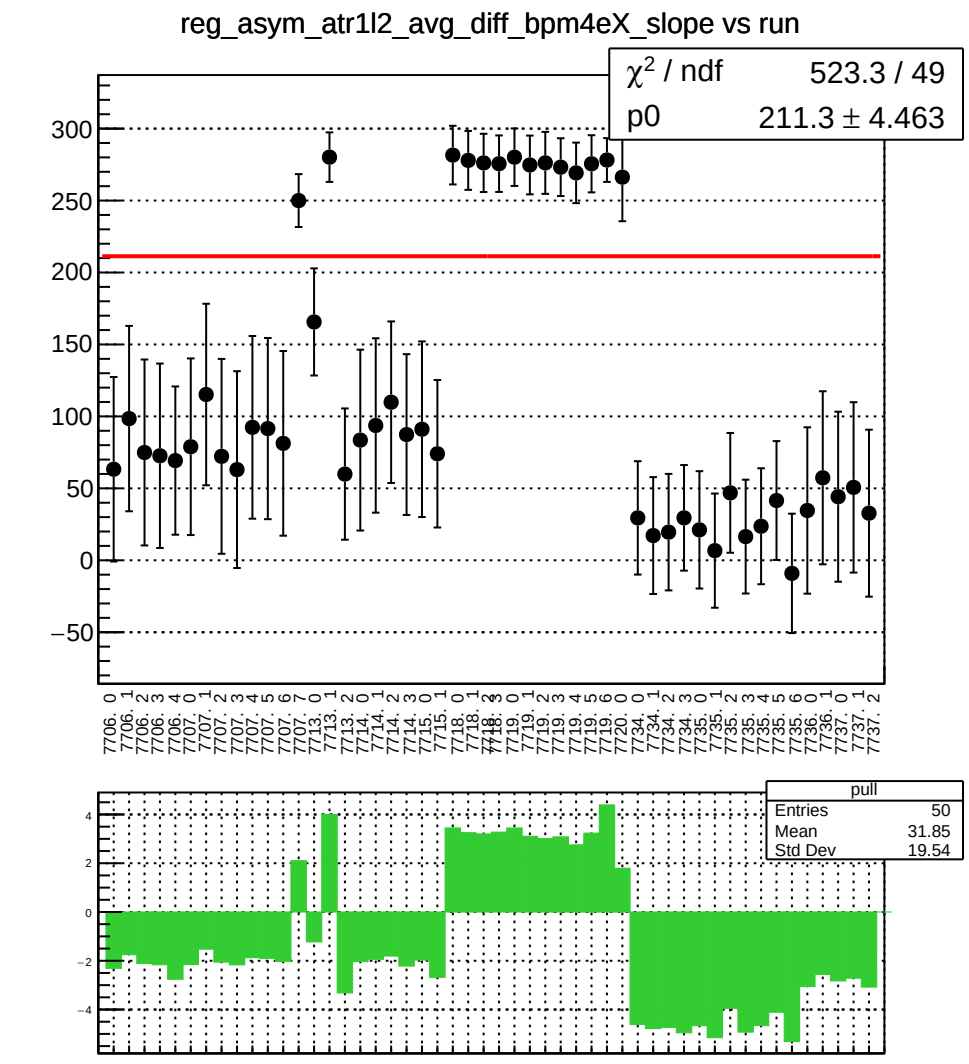

pull1D
Entries 50
Mean 0.1268
Std Dev 0.3712

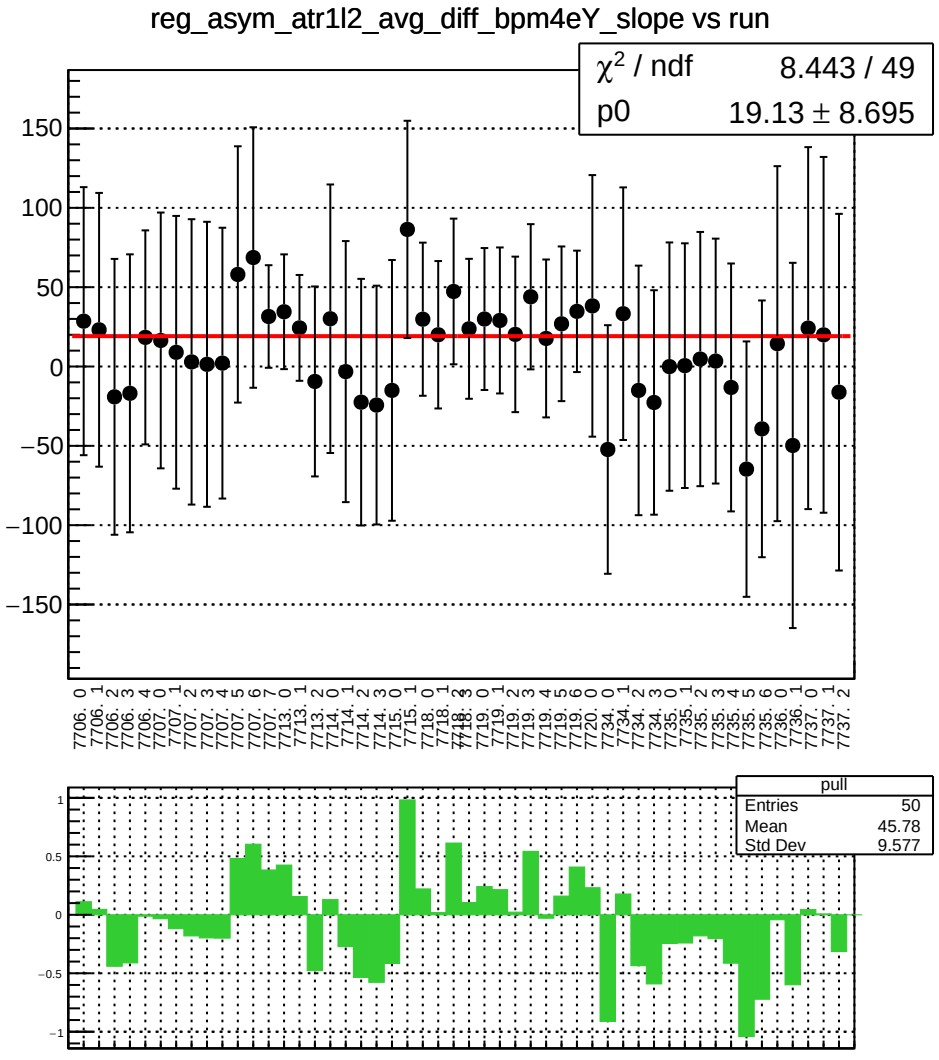

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 58.4 / 49
p0 140.5 ± 0.4085
150
145
140
135
130
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 167.4
Std Dev 136.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 50
Mean −0.03855
Std Dev 1.08
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

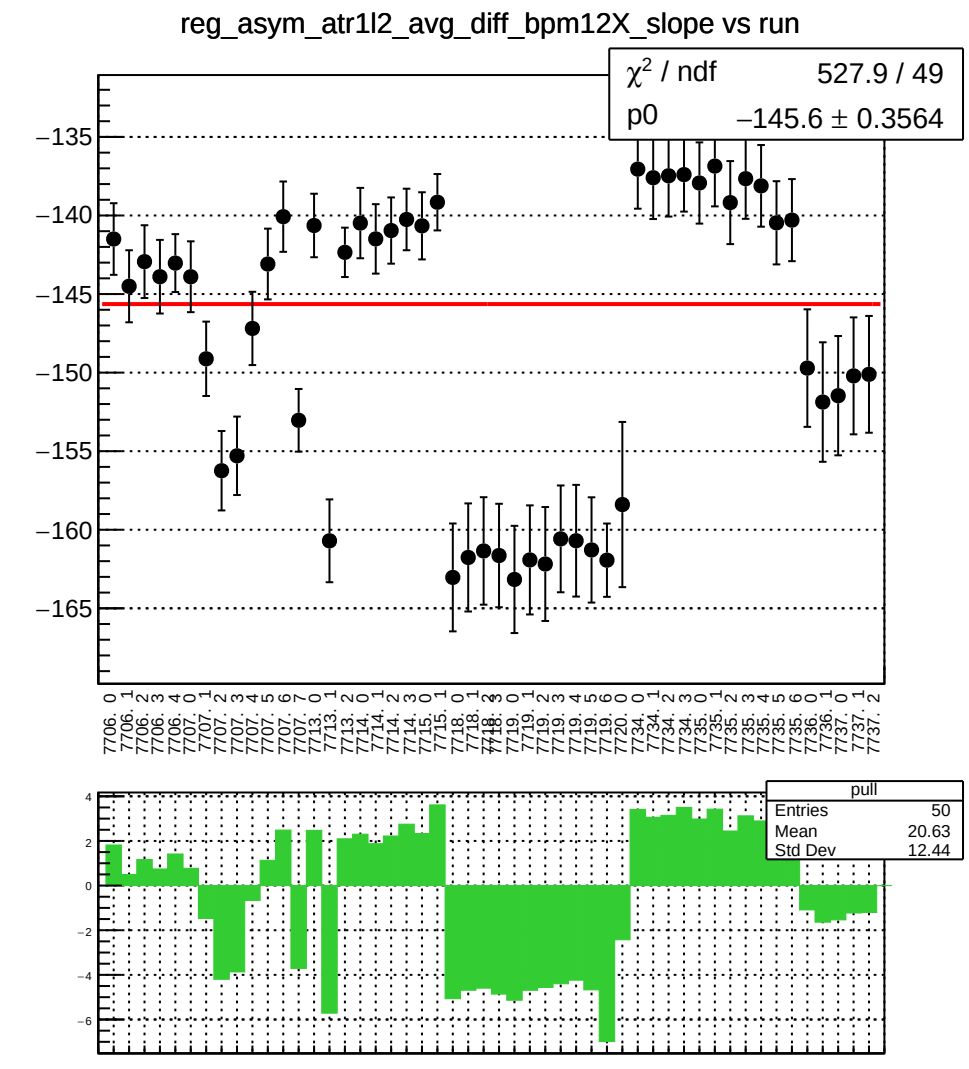

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 526.6 / 49
p0 −263.4 ± 5.208
pull
Entries 50
Mean 36.42
Std Dev 19.72

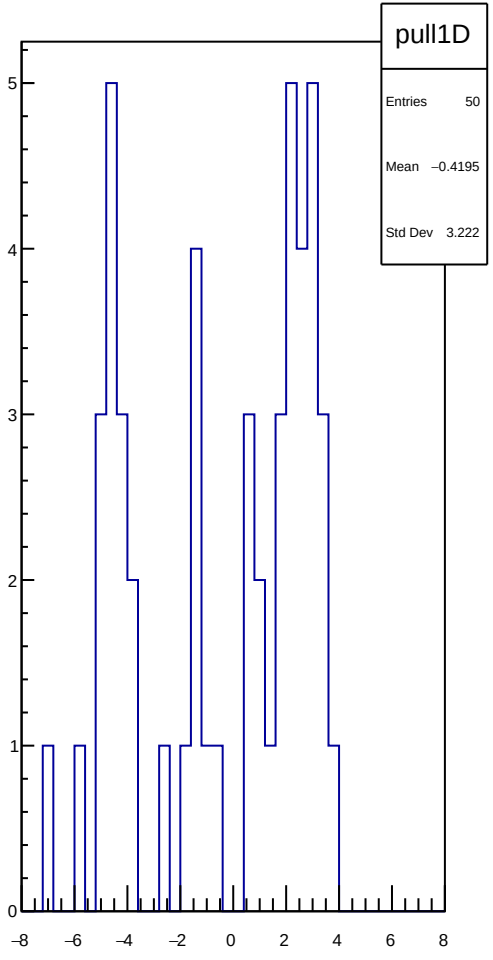

pull1D
Entries 50
Mean 0.9576
Std Dev 3.101

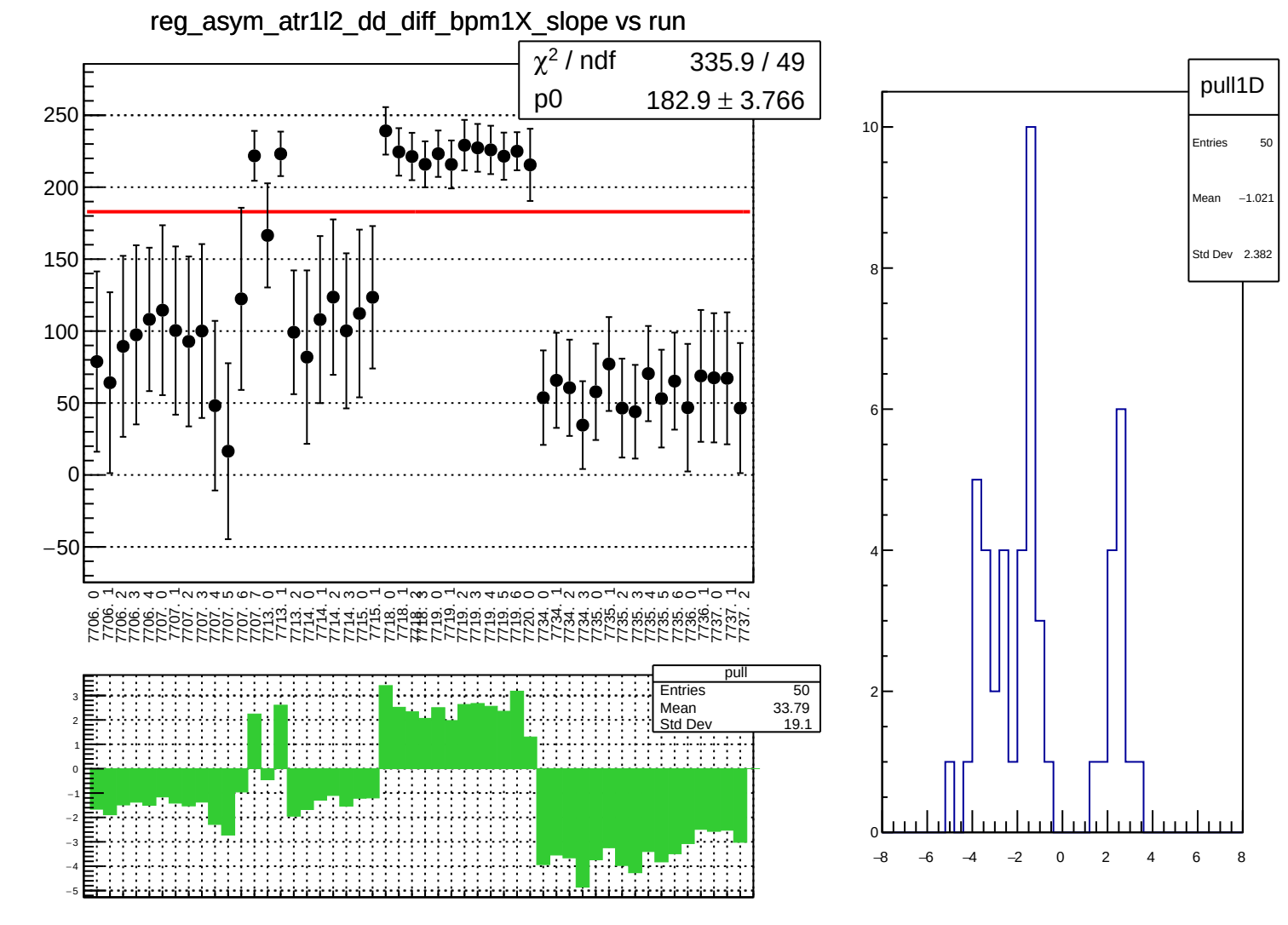

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.666 / 49
p0 35.61 ± 5.767
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 10.13
Std Dev 13.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 50
Mean 0.03846
Std Dev 0.3344
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

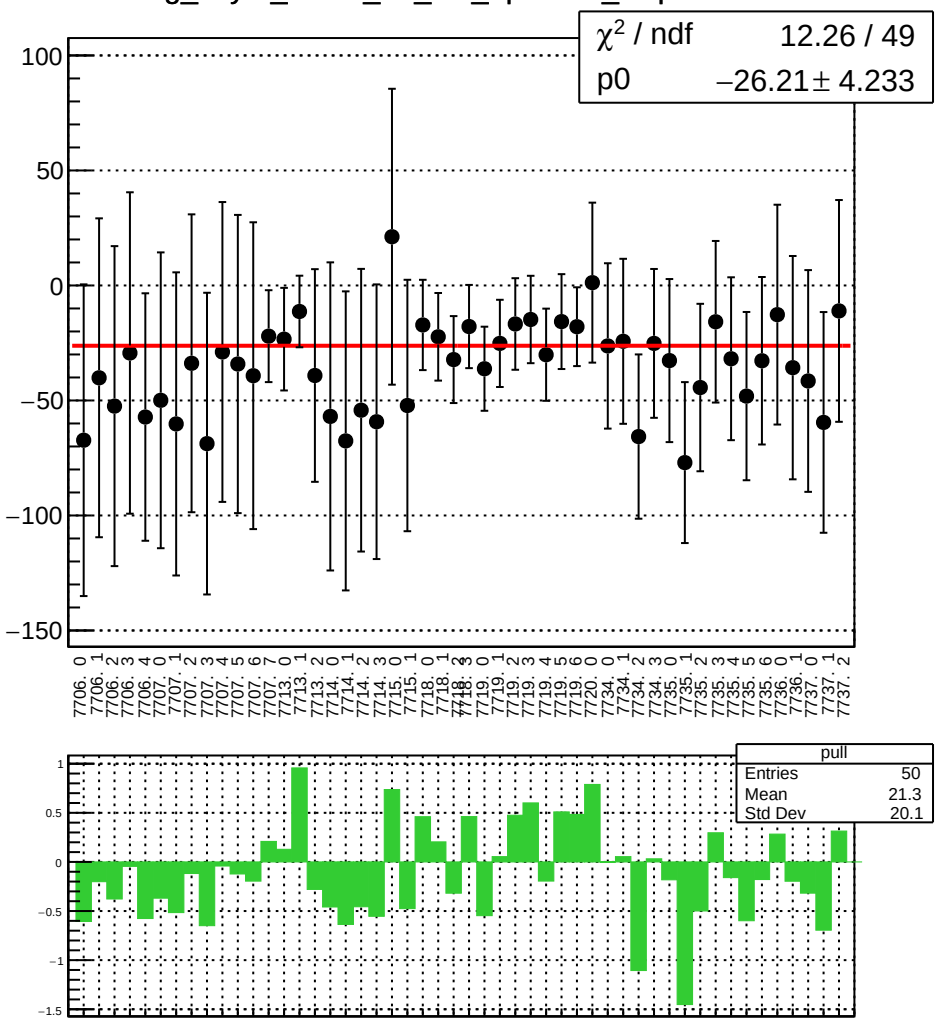

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 523.3 / 49
p0 211.3 ± 4.463
300
250
200
150
100
50
0
−50
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 31.85
Std Dev 19.54
4
2
0
−2
−4
pull1D
Entries 50
Mean −1.28
Std Dev 2.971
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

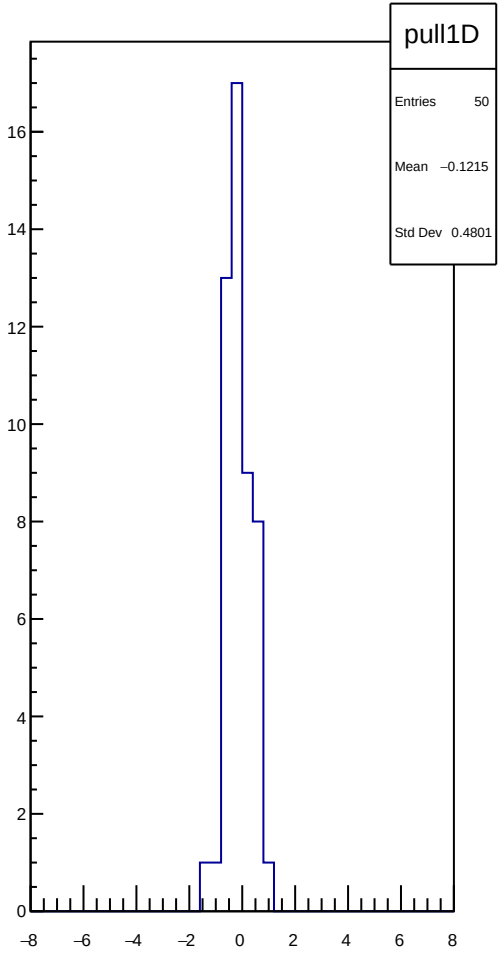

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.443 / 49
p0 19.13 ± 8.695
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 45.78
Std Dev 9.577
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.07016
Std Dev 0.4049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

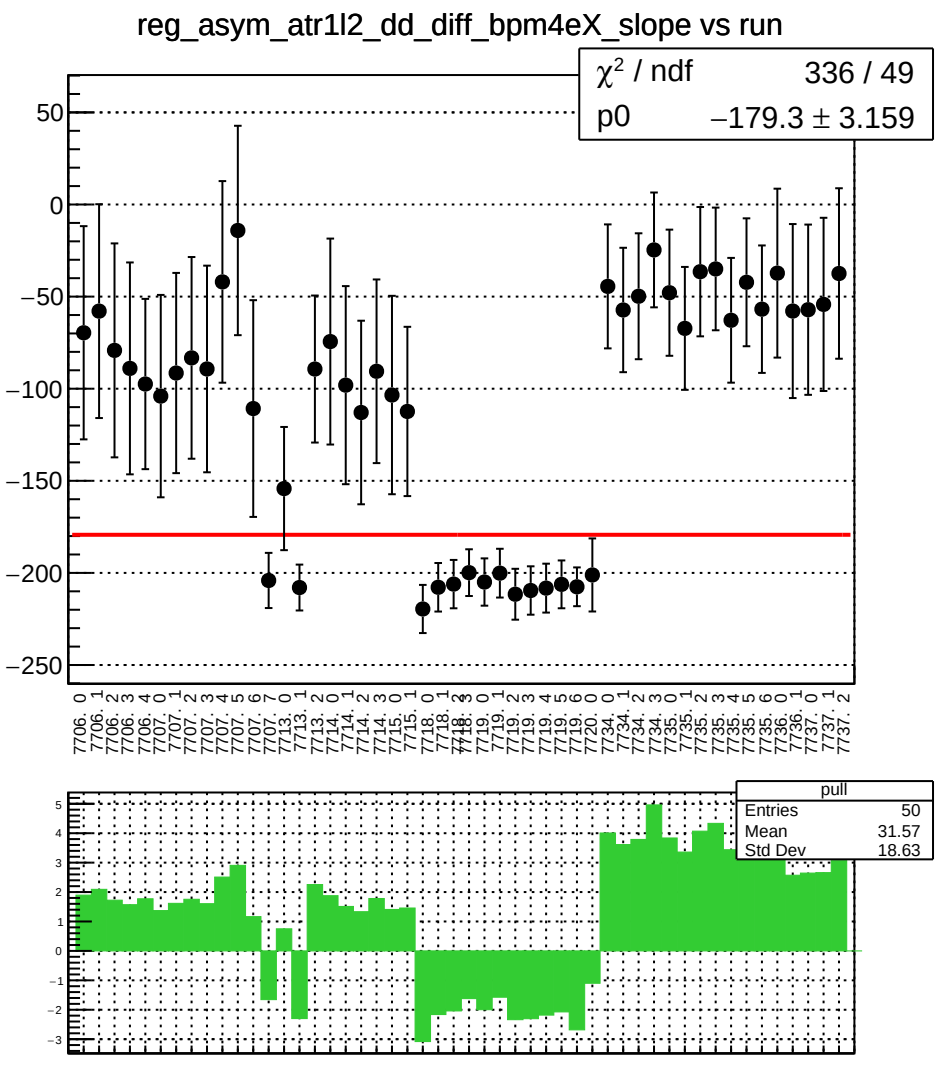

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 527.9 / 49
p0 −145.6 ± 0.3564
pull
Entries 50
Mean 20.63
Std Dev 12.44

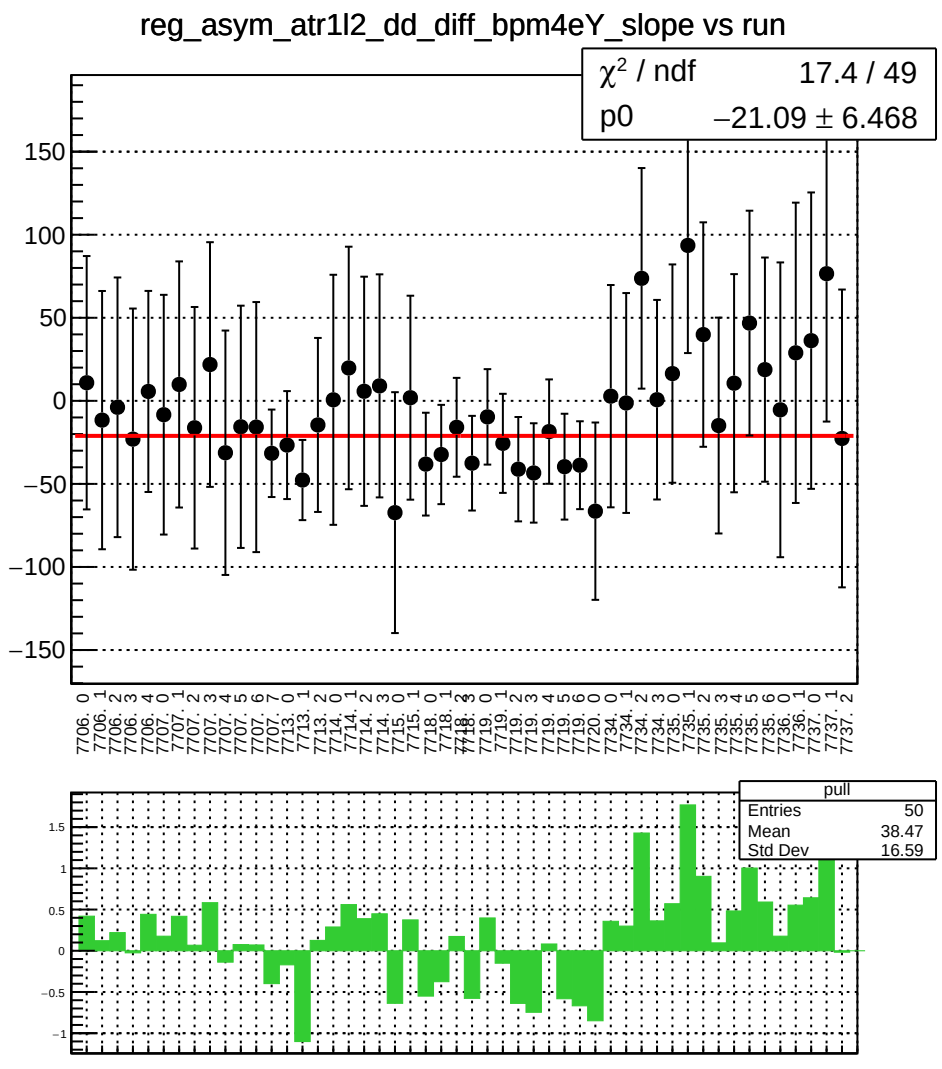

pull1D
Entries 50
Mean −0.4195
Std Dev 3.222

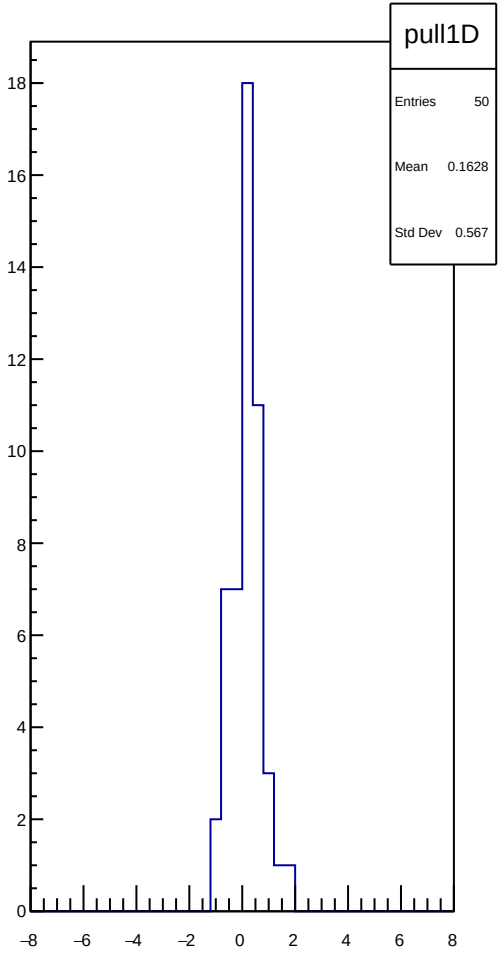

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 335.9 / 49
p0 182.9 ± 3.766
pull
Entries 50
Mean 33.79
Std Dev 19.1
pull1D
Entries 50
Mean −1.021
Std Dev 2.382

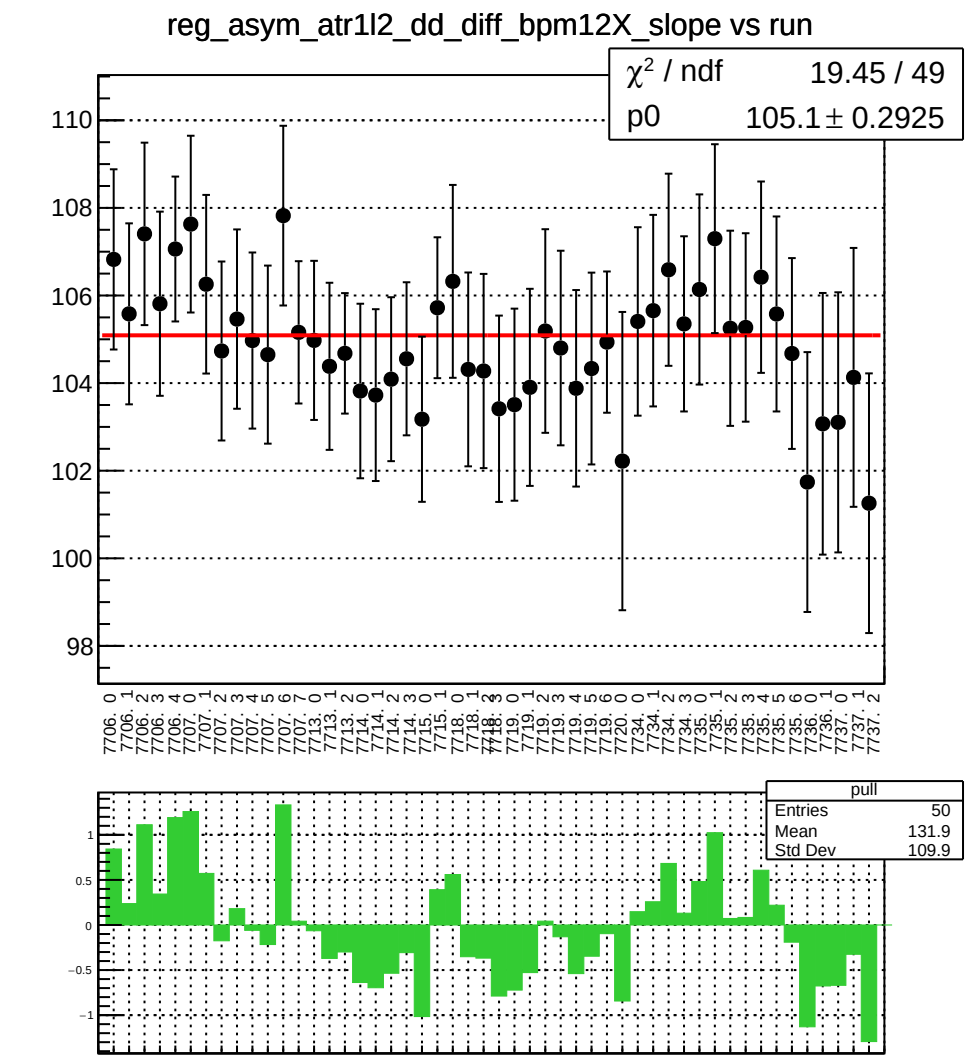

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.26 / 49
p0 −26.21 ± 4.233
pull
Entries 50
Mean 21.3
Std Dev 20.1

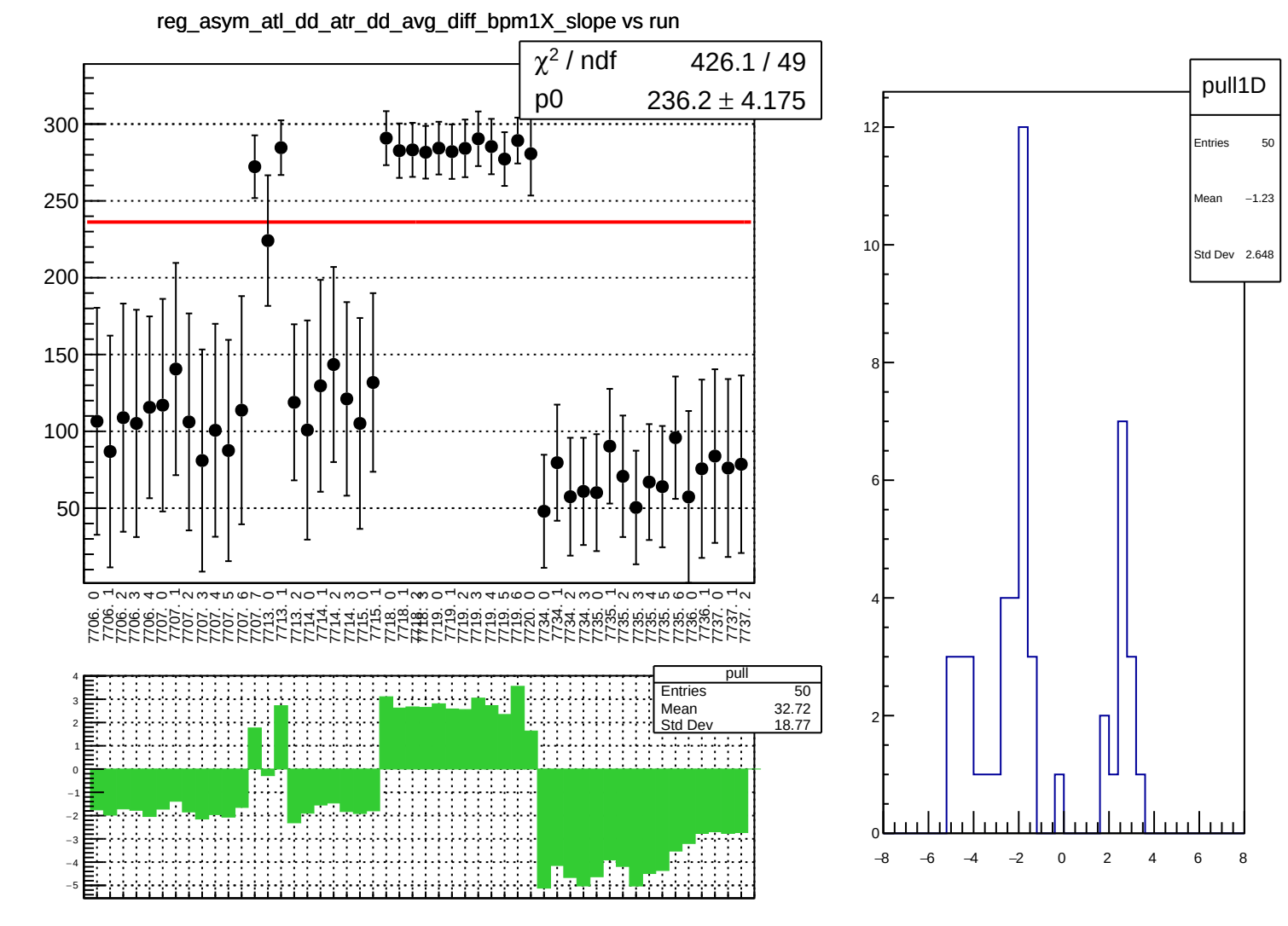

pull1D
Entries 50
Mean −0.1215
Std Dev 0.4801

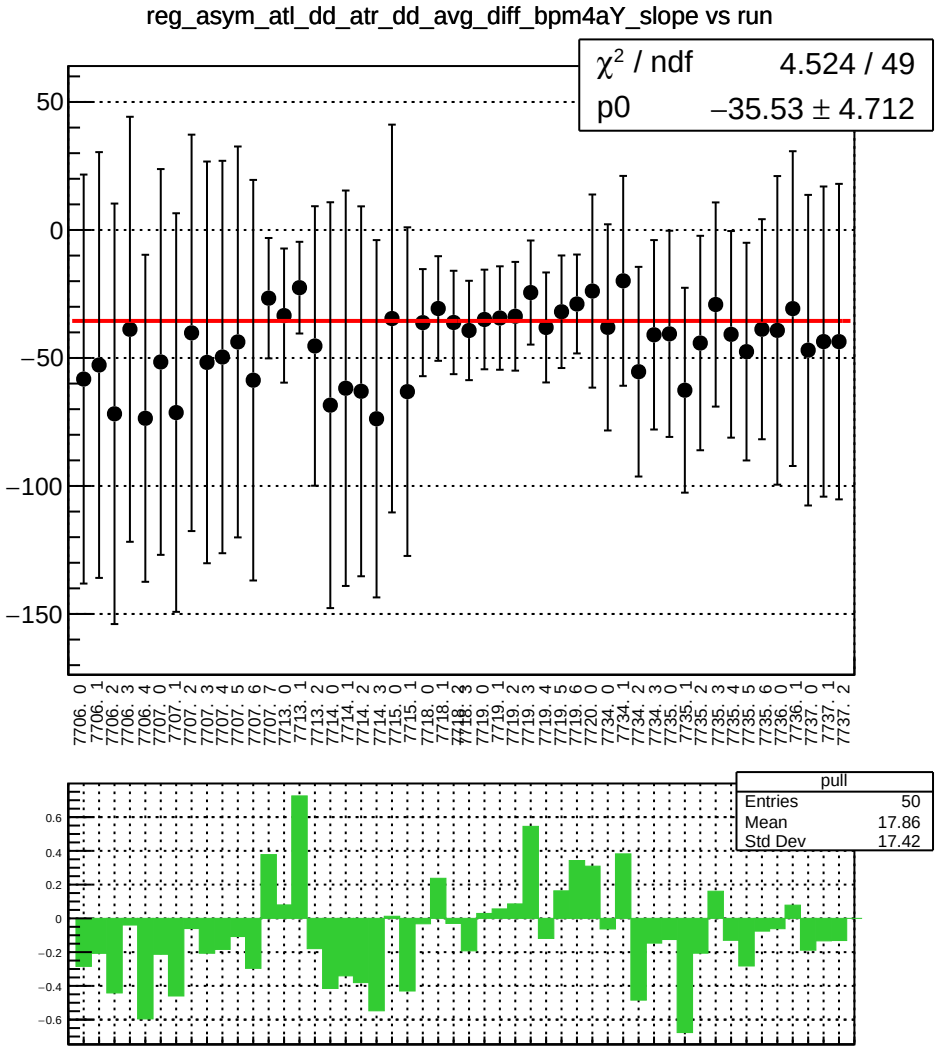

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 336 / 49
p0 −179.3 ± 3.159
50
0
−50
−100
−150
−200
−250
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 31.57
Std Dev 18.63
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 50
Mean 1.244
Std Dev 2.275
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

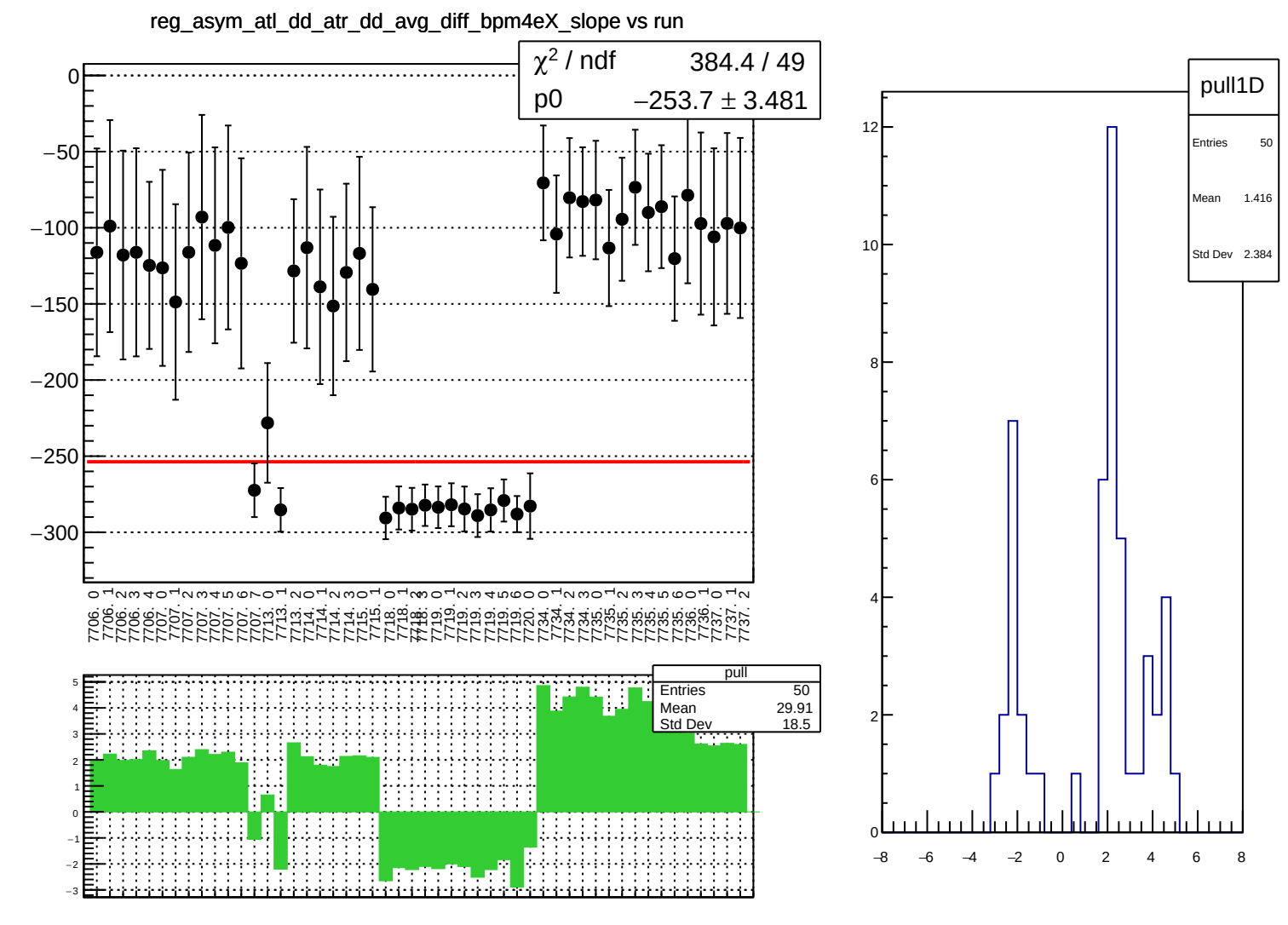

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.4 / 49
p0 −21.09 ± 6.468
150
100
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 38.47
Std Dev 16.59
1.5
1
0.5
0
−0.5
−1

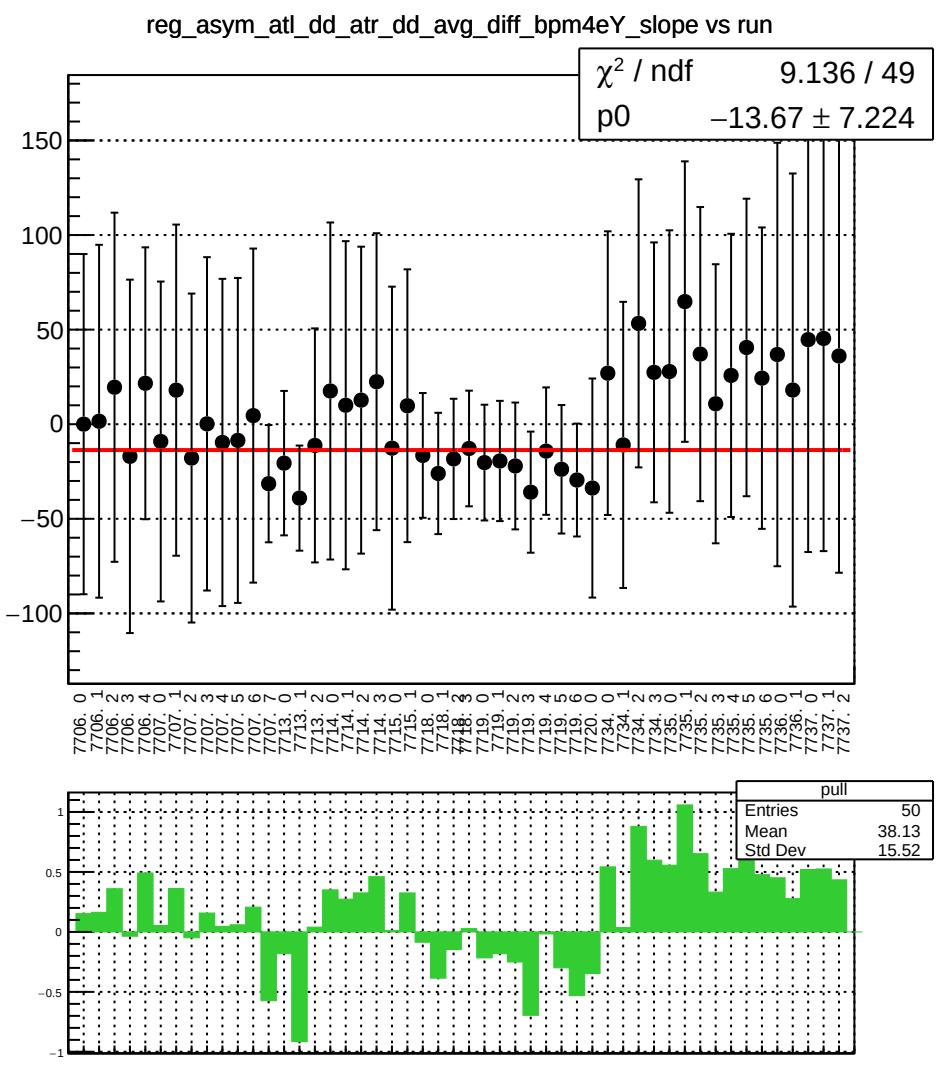

pull1D
Entries 50
Mean 0.1628
Std Dev 0.567
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.45 / 49
p0 105.1 ± 0.2925
110
108
106
104
102
100
98
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 131.9
Std Dev 109.9
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.03118
Std Dev 0.6228
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_bpm1X_slope vs run
χ² / ndf 426.1 / 49
p0 236.2 ± 4.175
pull
Entries 50
Mean 32.72
Std Dev 18.77
pull1D
Entries 50
Mean −1.23
Std Dev 2.648


reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.524 / 49
p0 −35.53 ± 4.712
50
0
−50
−100
−150
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 17.86
Std Dev 17.42
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 50
Mean −0.09758
Std Dev 0.2845
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 384.4 / 49
p0 −253.7 ± 3.481
pull
Entries 50
Mean 29.91
Std Dev 18.5
pull1D
Entries 50
Mean 1.416
Std Dev 2.384


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.136 / 49
p0 −13.67 ± 7.224
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
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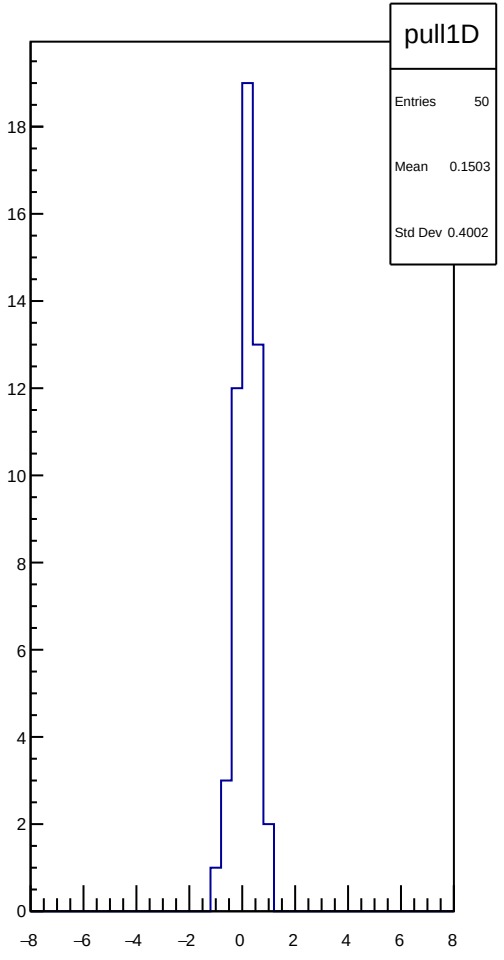
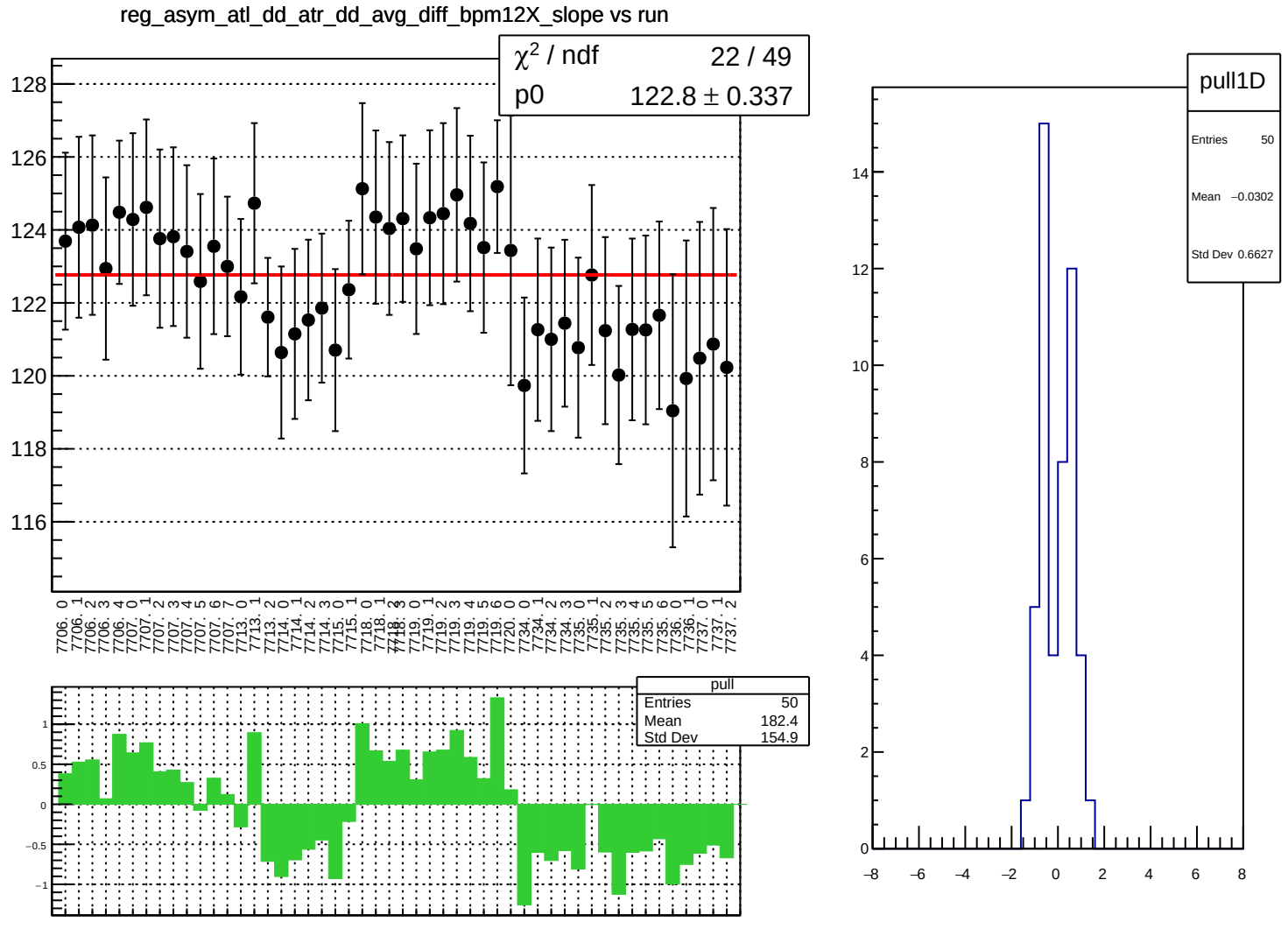
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 38.13
Std Dev 15.52
1
0.5
0
−0.5
−1


pull1D
Entries 50
Mean 0.1503
Std Dev 0.4002
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 22 / 49
p0 122.8 ± 0.337
128
126
124
122
120
118
116
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 182.4
Std Dev 154.9
1
0.5
0
−0.5
−1
pull1D
Entries 50
Mean −0.0302
Std Dev 0.6627
14
12
10
8
6
4
2
0
−8
−6
−4
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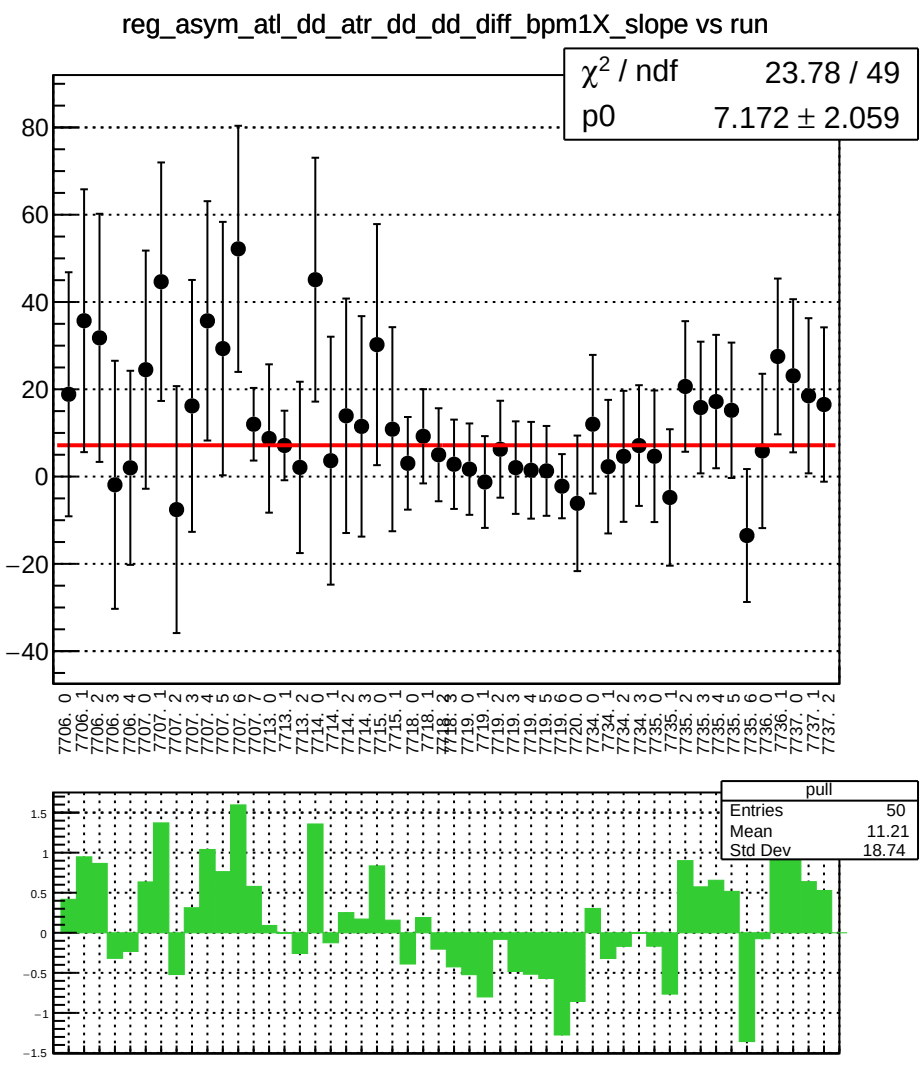
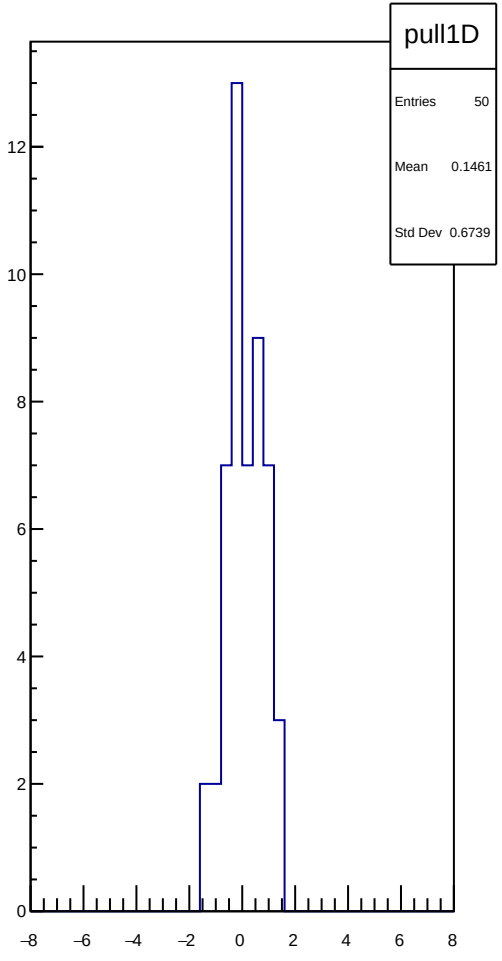
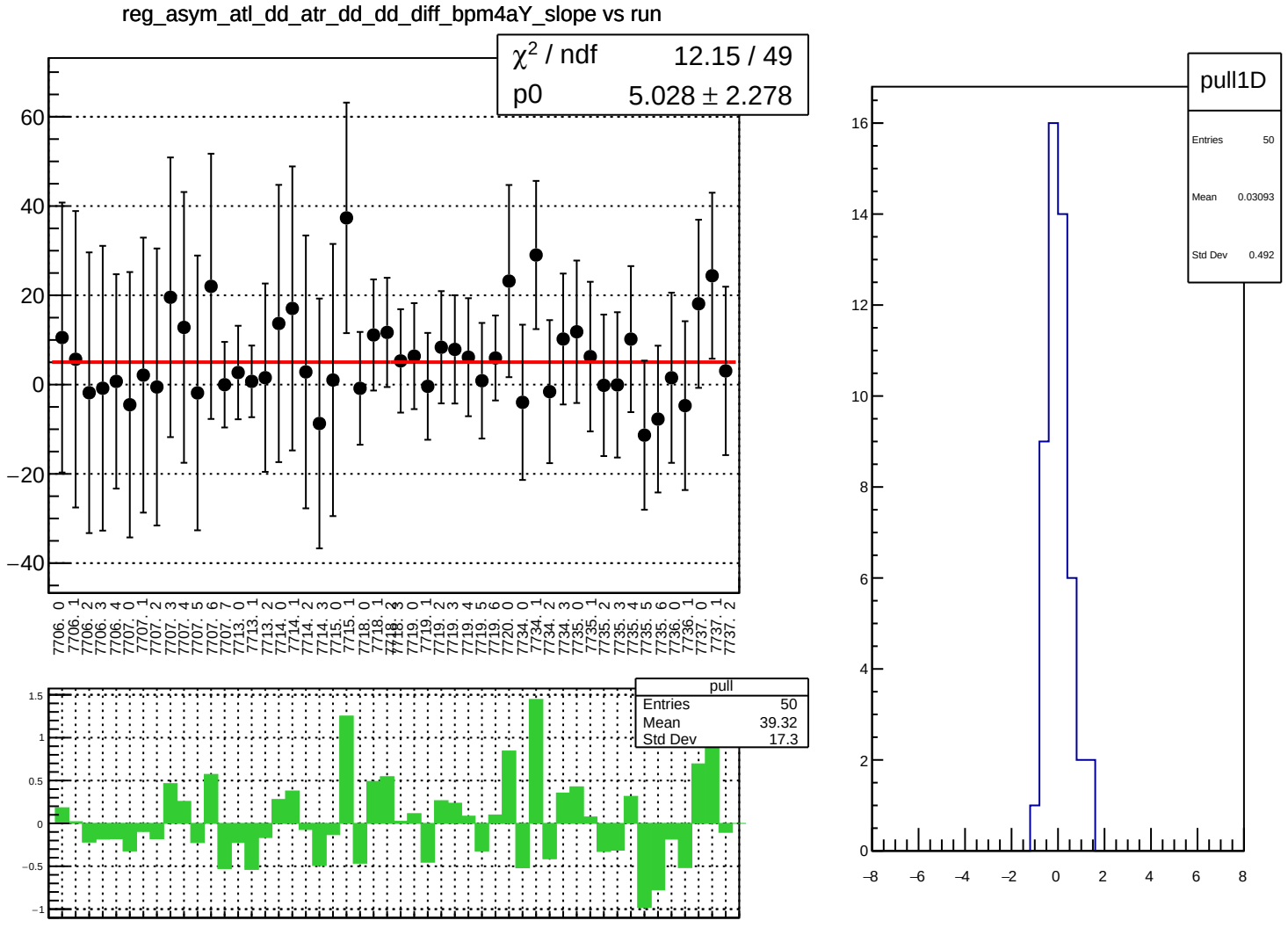
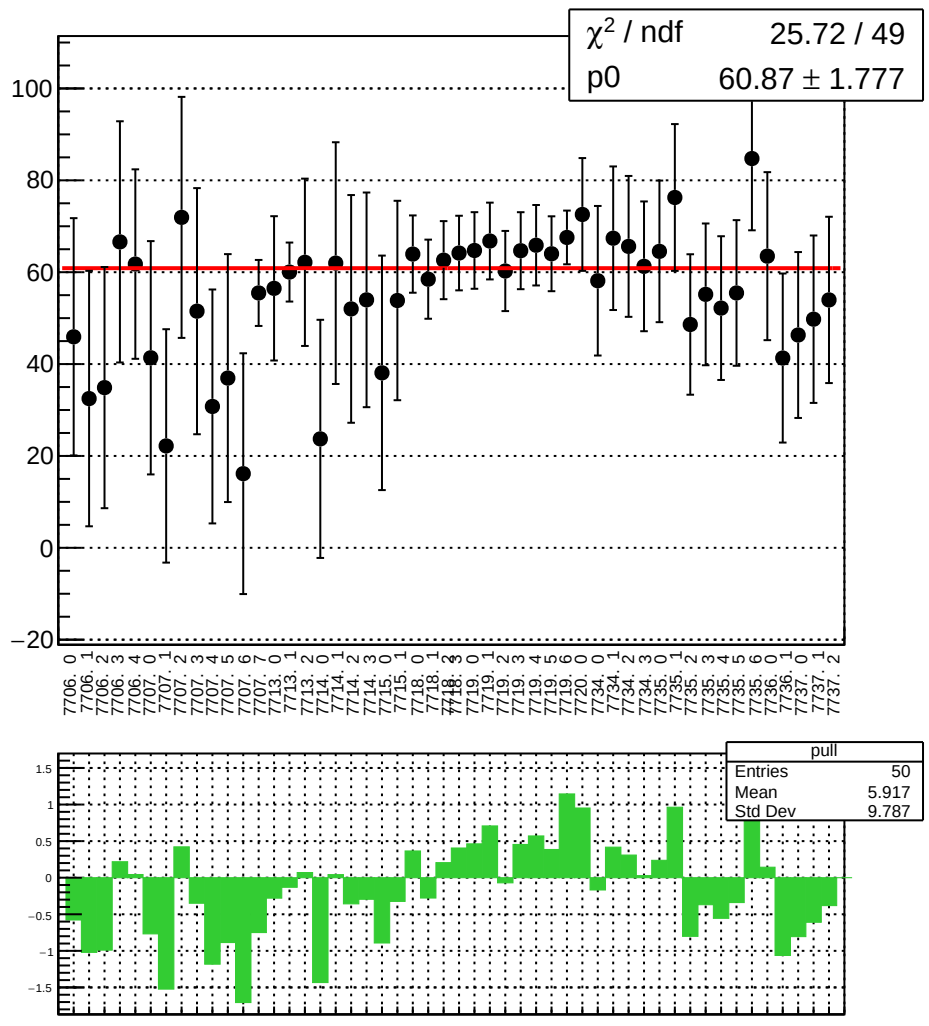
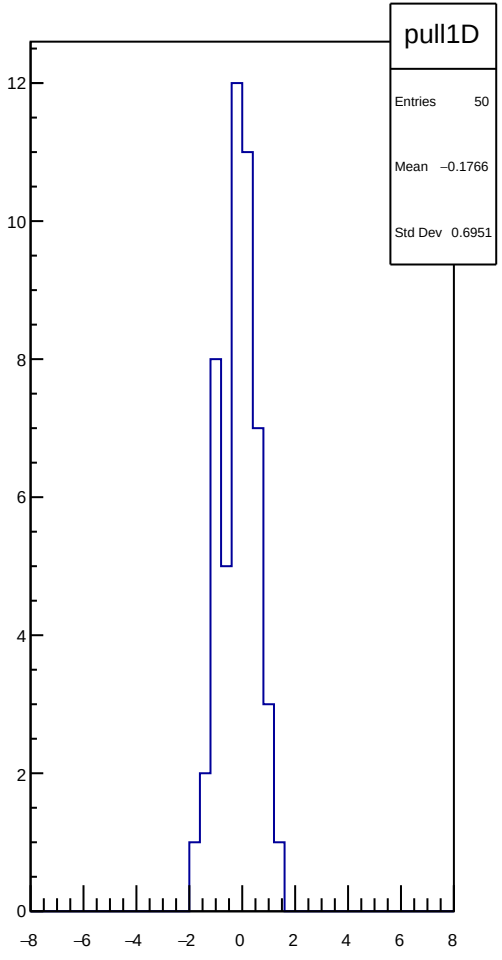
0
2
4
6
8

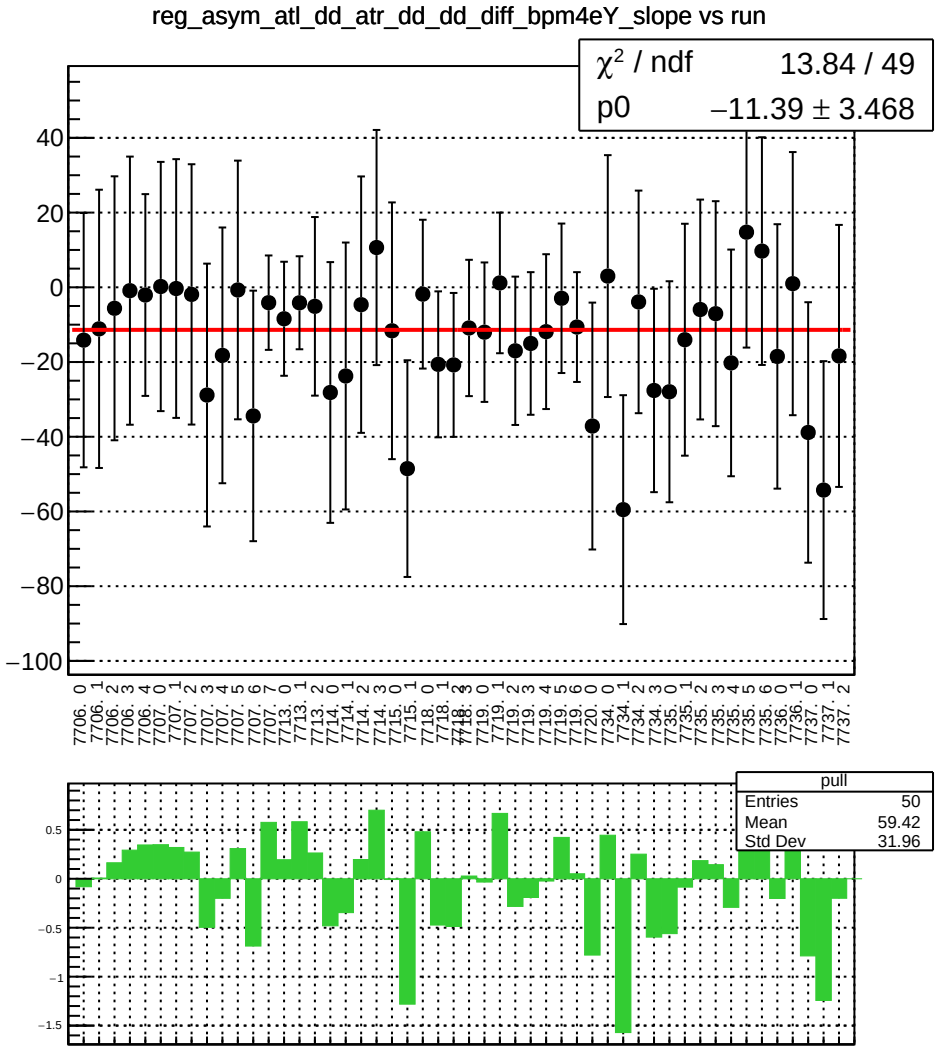

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 23.78 / 49
p0 7.172 ± 2.059
pull
Entries 50
Mean 11.21
Std Dev 18.74

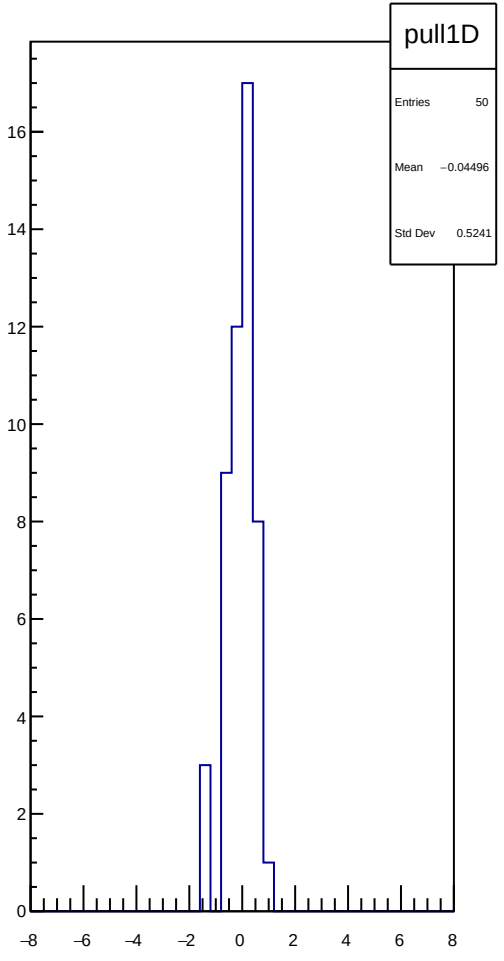

pull1D
Entries 50
Mean 0.1461
Std Dev 0.6739

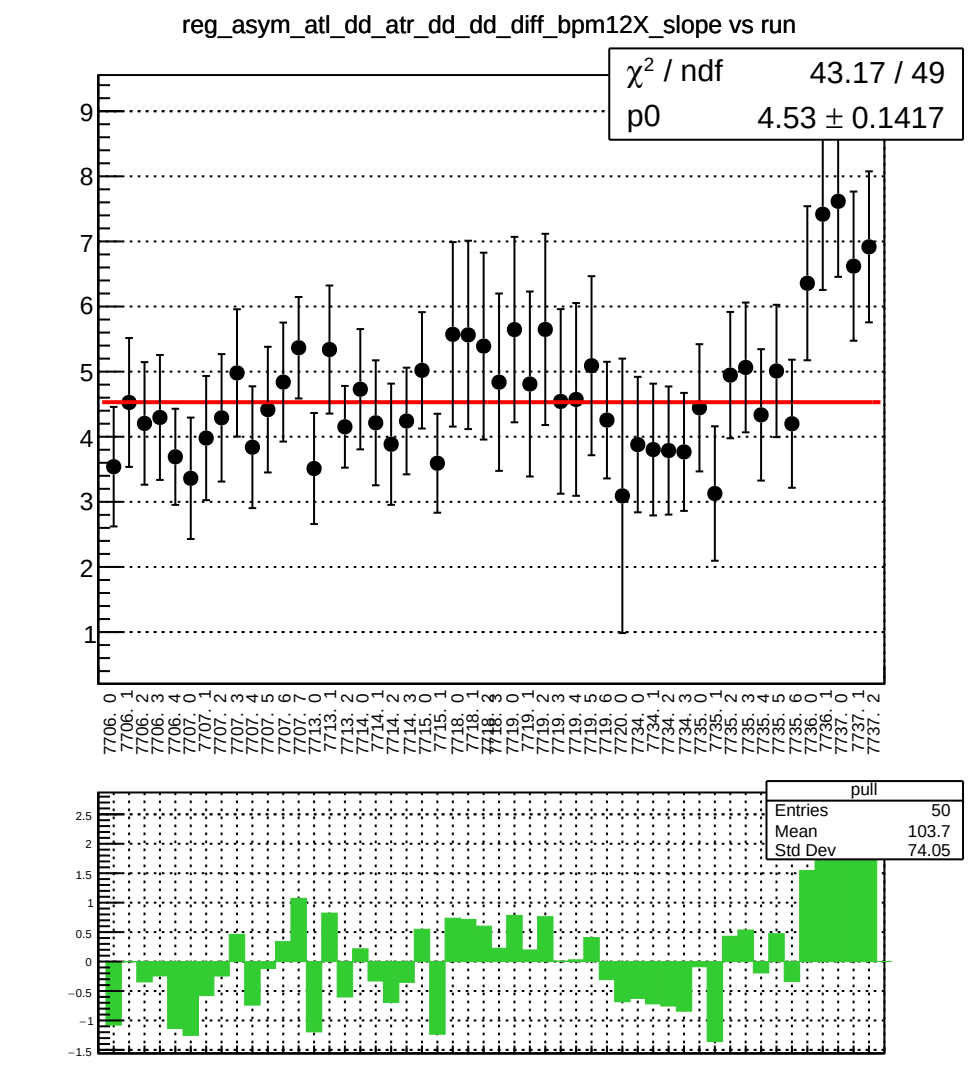

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.15 / 49
p0 5.028 ± 2.278
pull
Entries 50
Mean 39.32
Std Dev 17.3
pull1D
Entries 50
Mean 0.03093
Std Dev 0.492

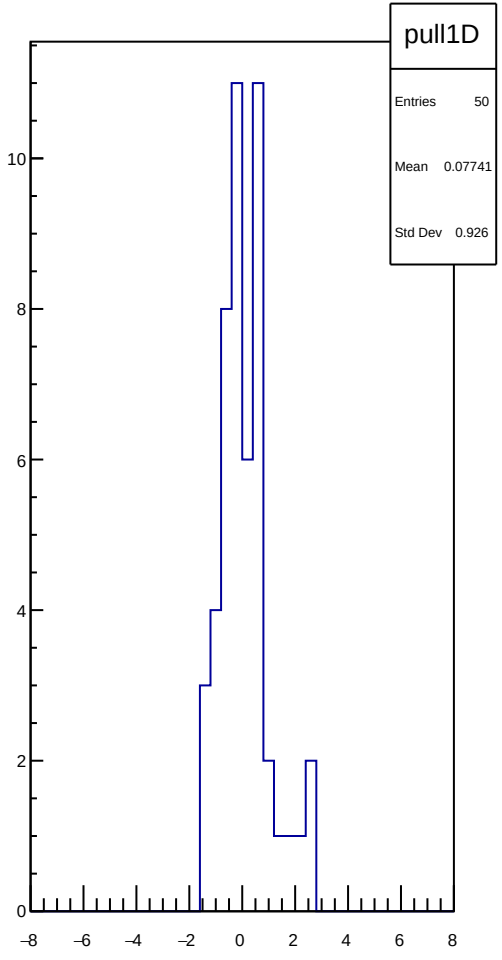

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.72 / 49
p0 60.87 ± 1.777
pull
Entries 50
Mean 5.917
Std Dev 9.787

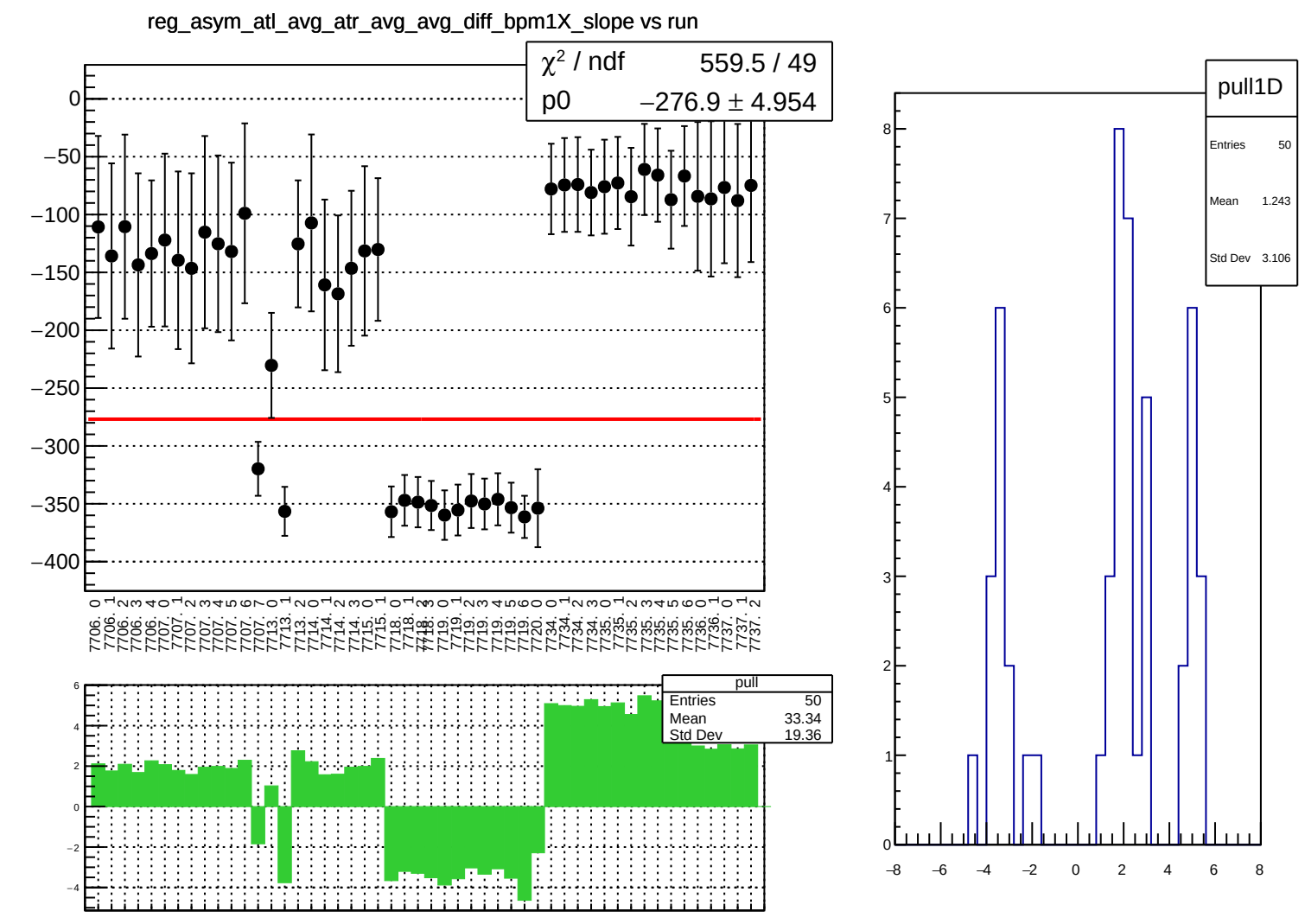

pull1D
Entries 50
Mean −0.1766
Std Dev 0.6951

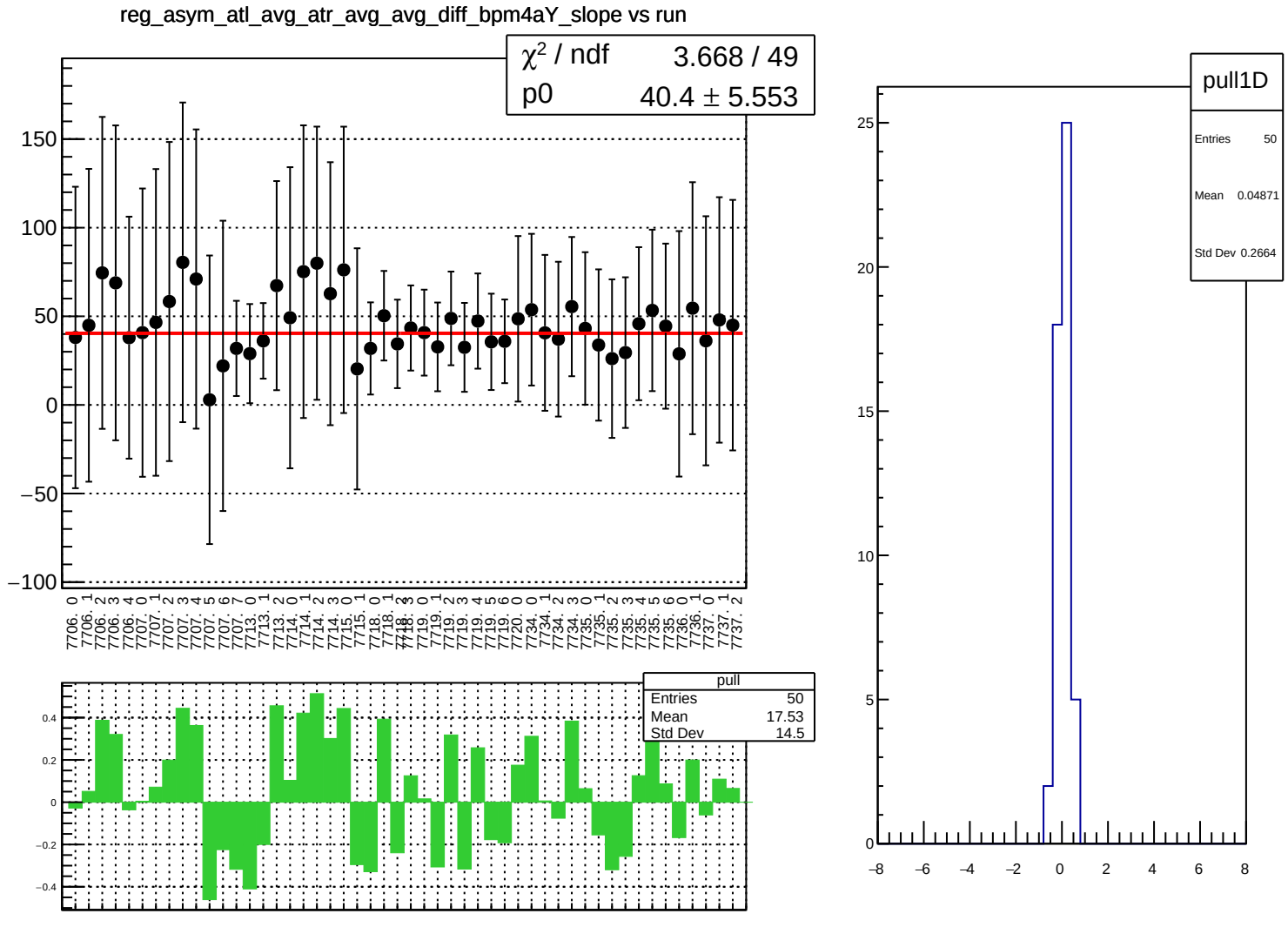

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.84 / 49
p0 −11.39 ± 3.468
pull
Entries 50
Mean 59.42
Std Dev 31.96

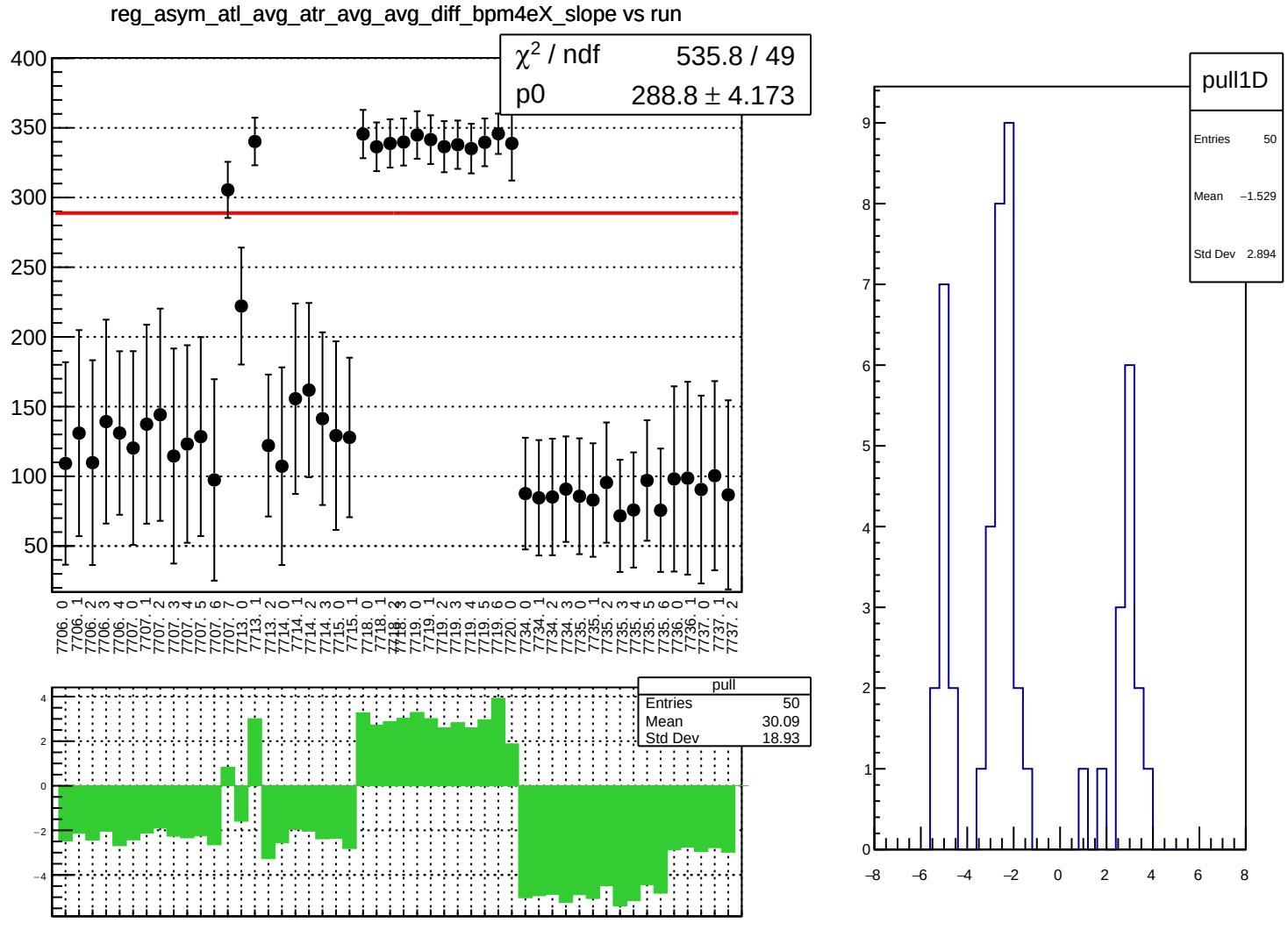

pull1D
Entries 50
Mean −0.04496
Std Dev 0.5241

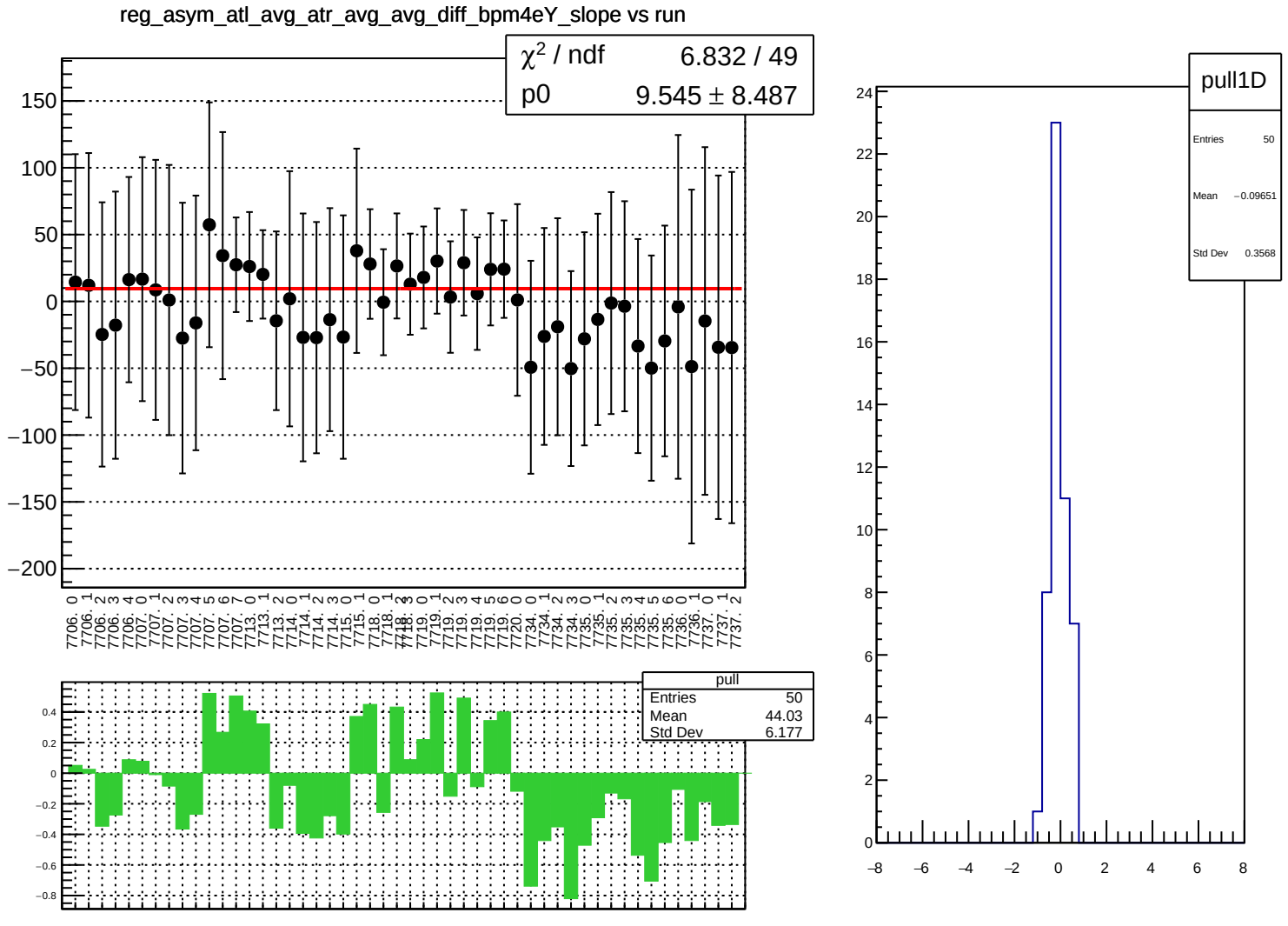

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 43.17 / 49
p0 4.53 ± 0.1417
pull
Entries 50
Mean 103.7
Std Dev 74.05

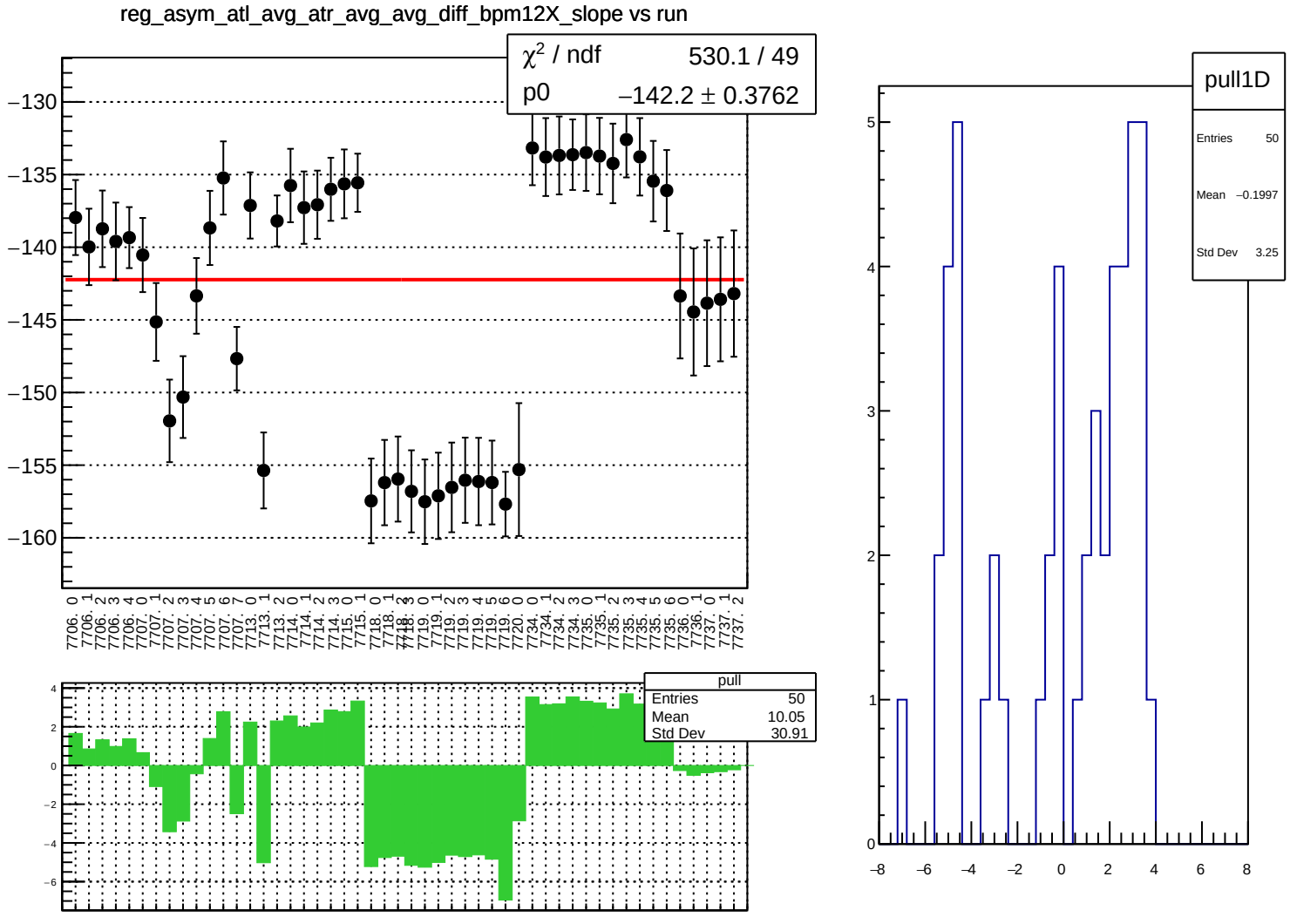

pull1D
Entries 50
Mean 0.07741
Std Dev 0.926


reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 559.5 / 49
p0 −276.9 ± 4.954
pull
Entries 50
Mean 33.34
Std Dev 19.36
pull1D
Entries 50
Mean 1.243
Std Dev 3.106


reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.668 / 49
p0 40.4 ± 5.553
150
100
50
0
−50
−100
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 17.53
Std Dev 14.5
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 50
Mean 0.04871
Std Dev 0.2664
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 535.8 / 49
p0 288.8 ± 4.173
pull
Entries 50
Mean 30.09
Std Dev 18.93
pull1D
Entries 50
Mean −1.529
Std Dev 2.894


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.832 / 49
p0 9.545 ± 8.487
150
100
50
0
−50
−100
−150
−200
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 44.03
Std Dev 6.177
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 50
Mean −0.09651
Std Dev 0.3568
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 530.1 / 49
p0 −142.2 ± 0.3762
−130
−135
−140
−145
−150
−155
−160
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
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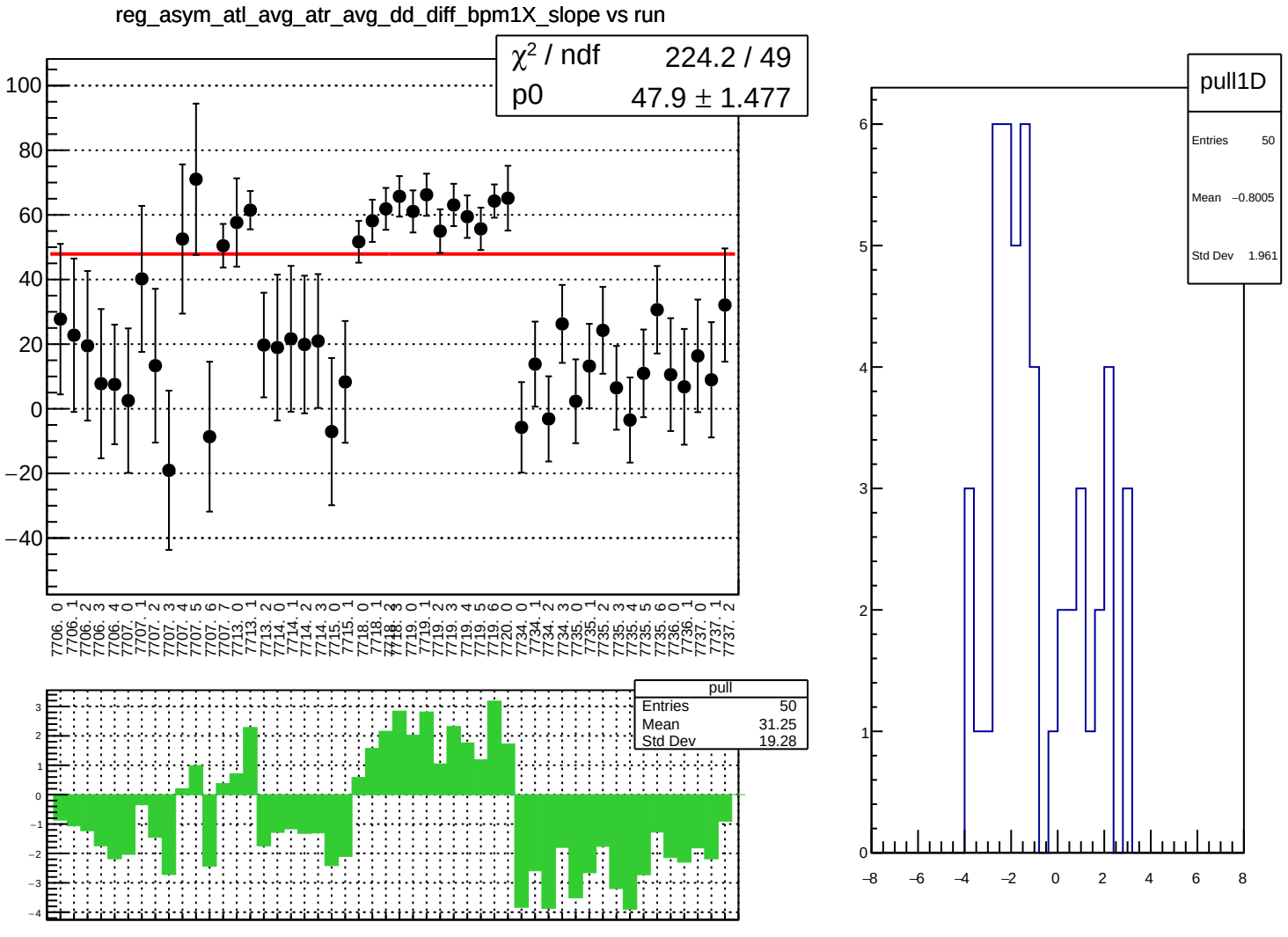
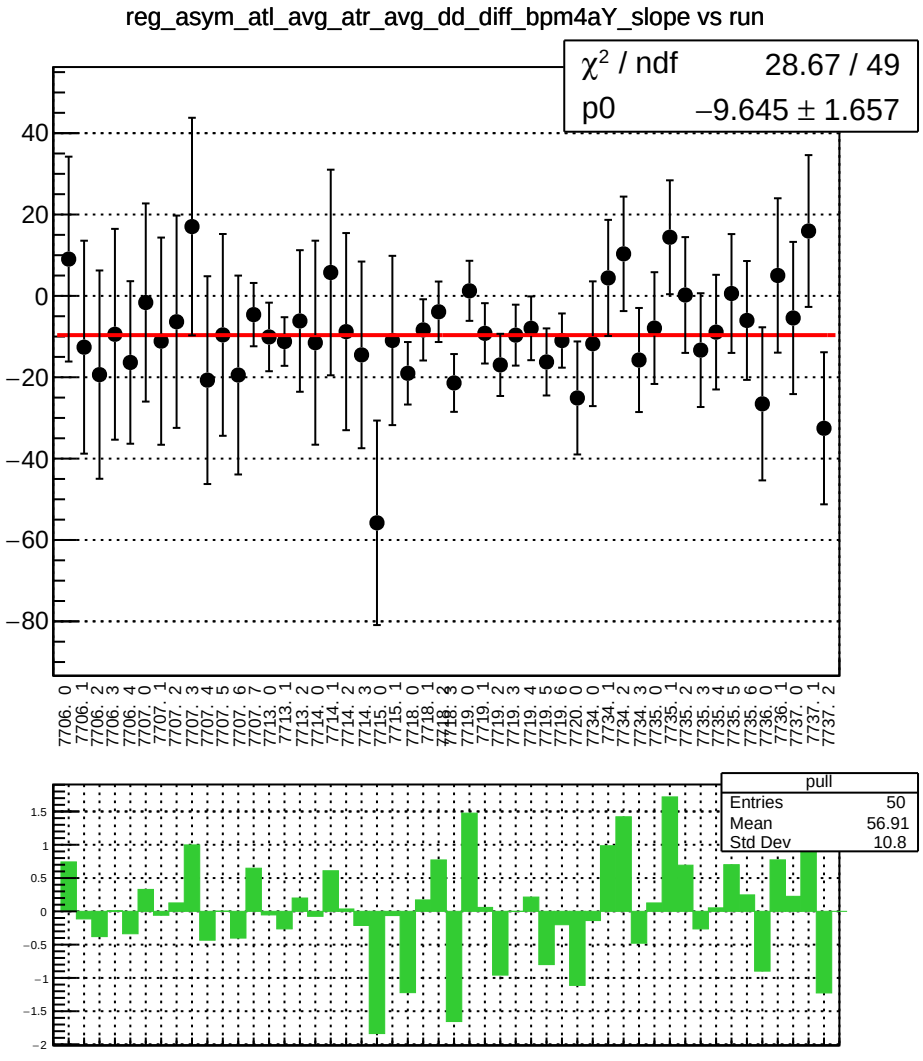
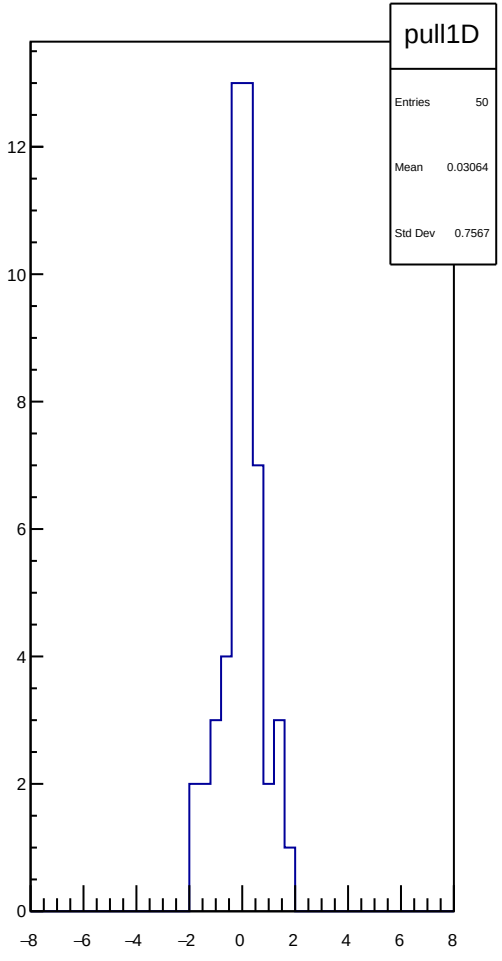
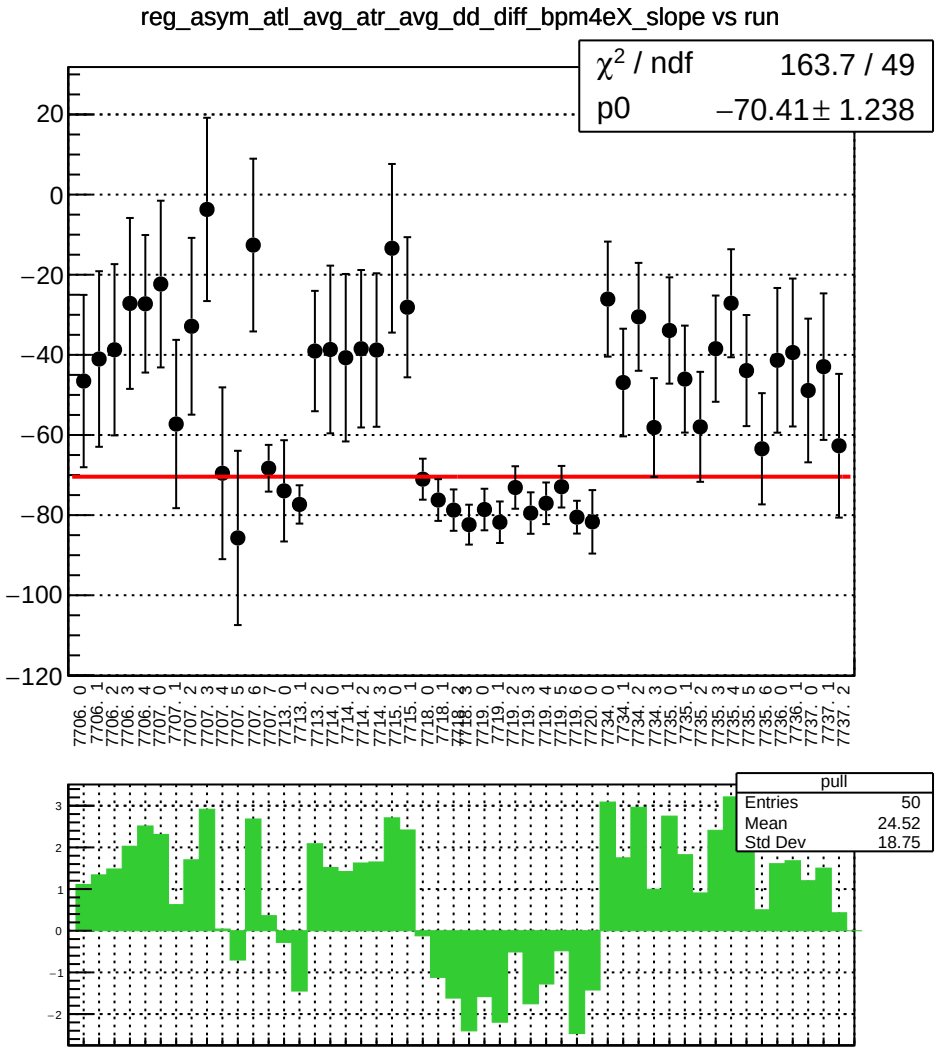
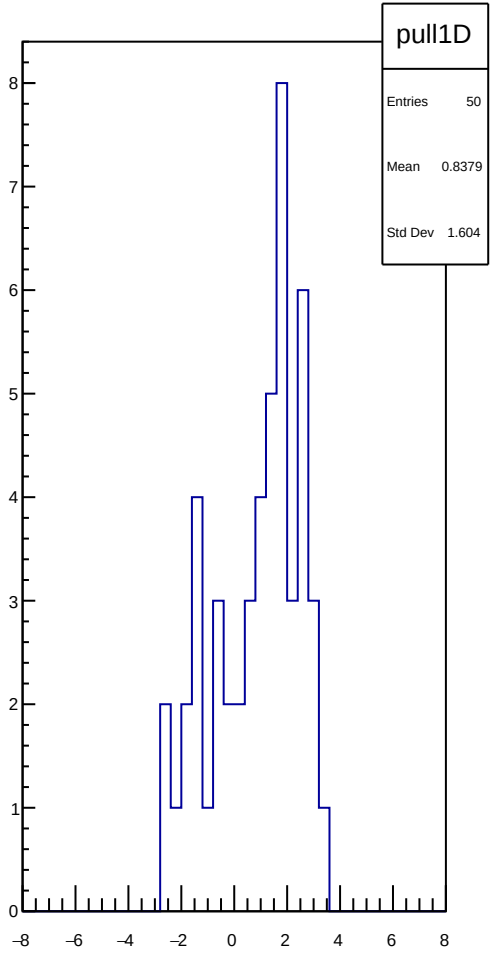
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 10.05
Std Dev 30.91
4
2
0
−2
−4
−6
pull1D
Entries 50
Mean −0.1997
Std Dev 3.25
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

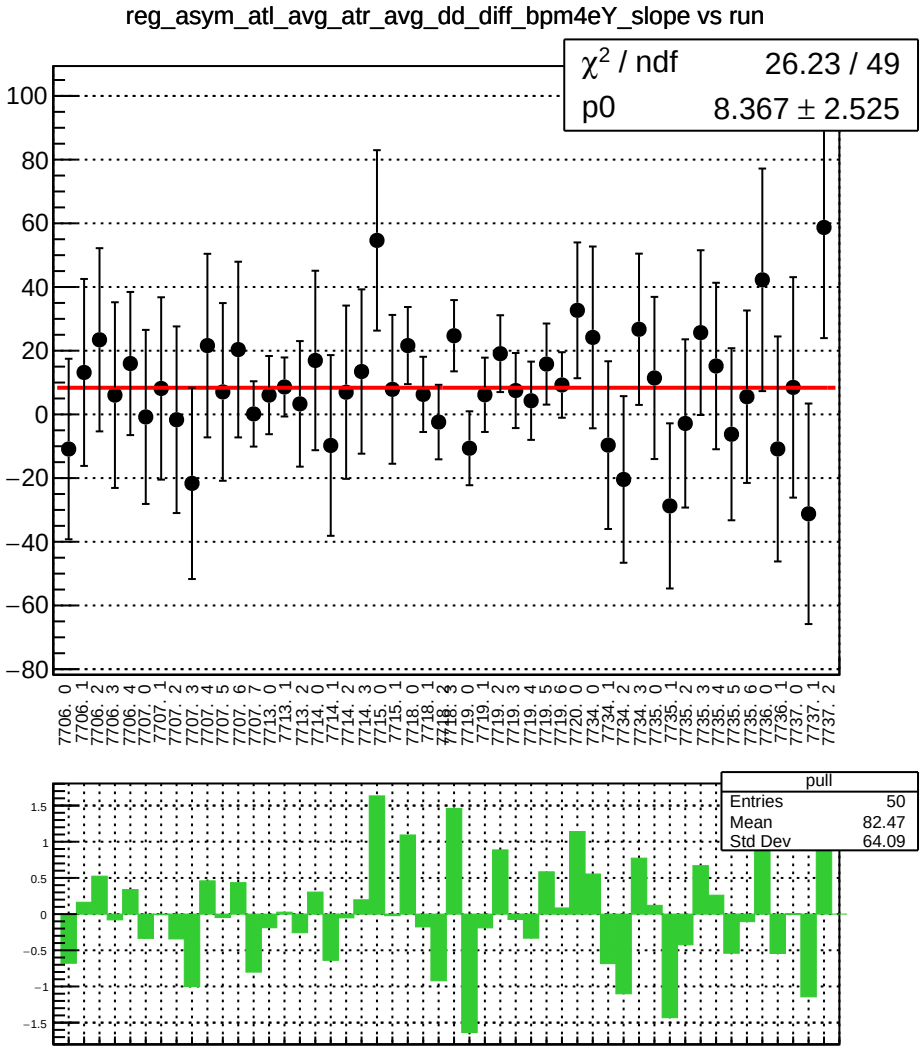

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 224.2 / 49
p0 47.9 ± 1.477
pull
Entries 50
Mean 31.25
Std Dev 19.28
pull1D
Entries 50
Mean −0.8005
Std Dev 1.961

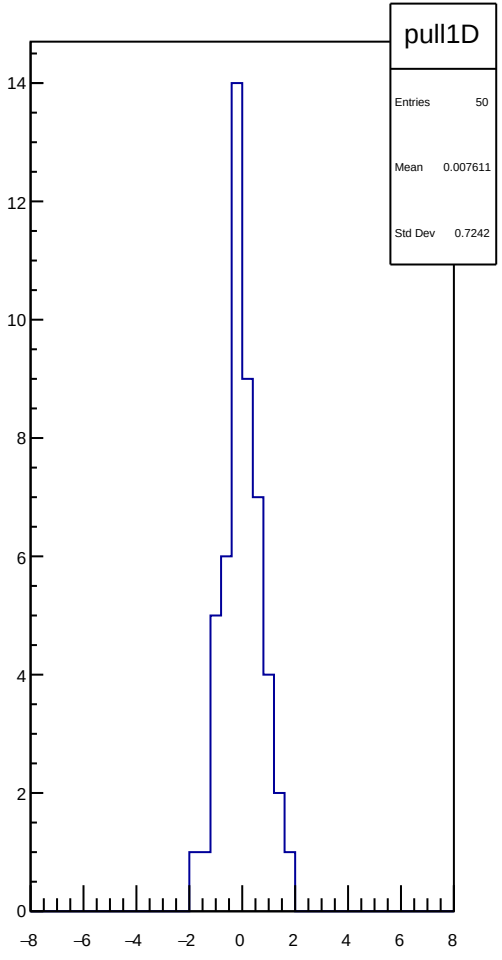

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.67 / 49
p0 −9.645 ± 1.657
pull
Entries 50
Mean 56.91
Std Dev 10.8

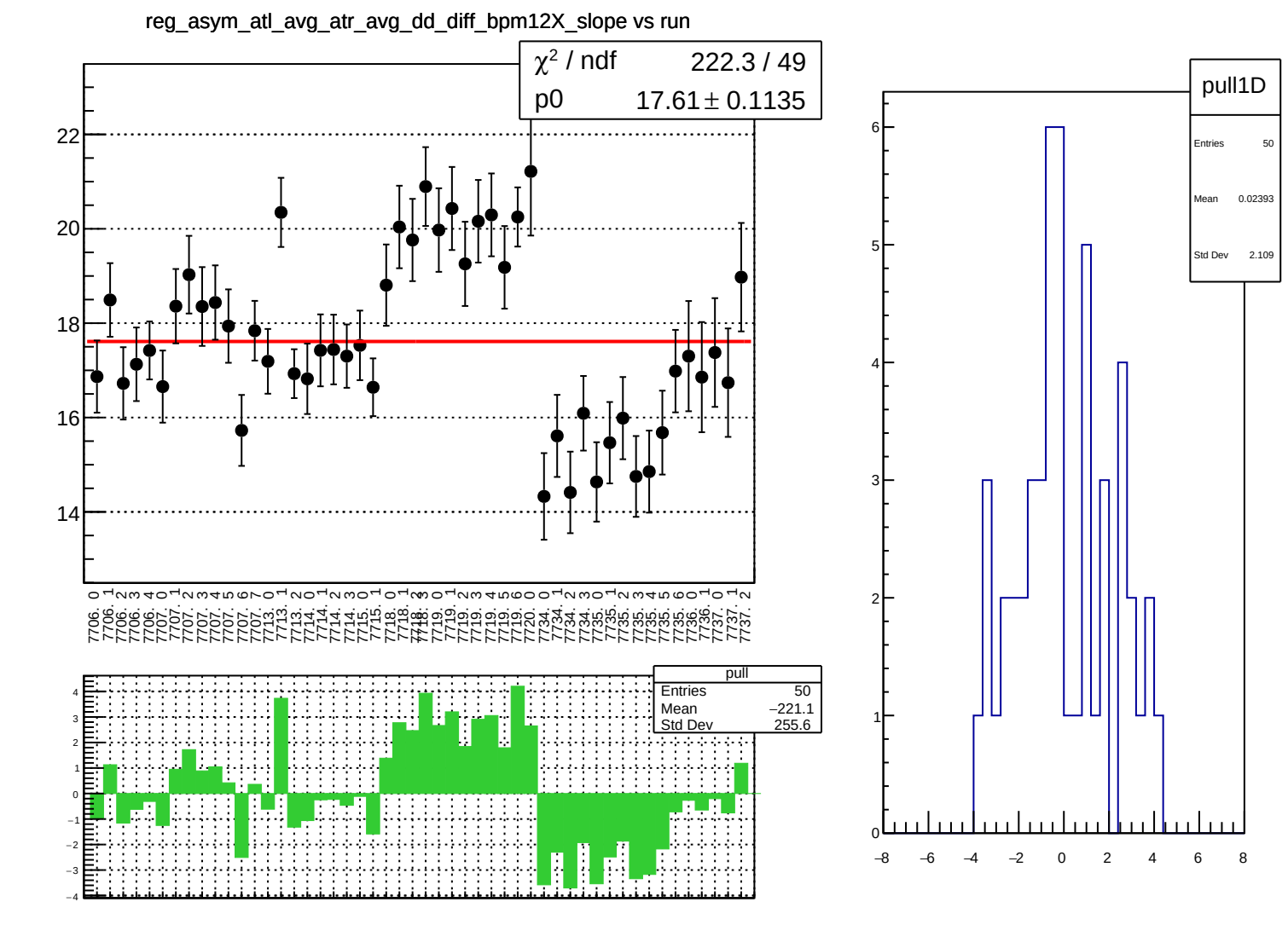

pull1D
Entries 50
Mean 0.03064
Std Dev 0.7567

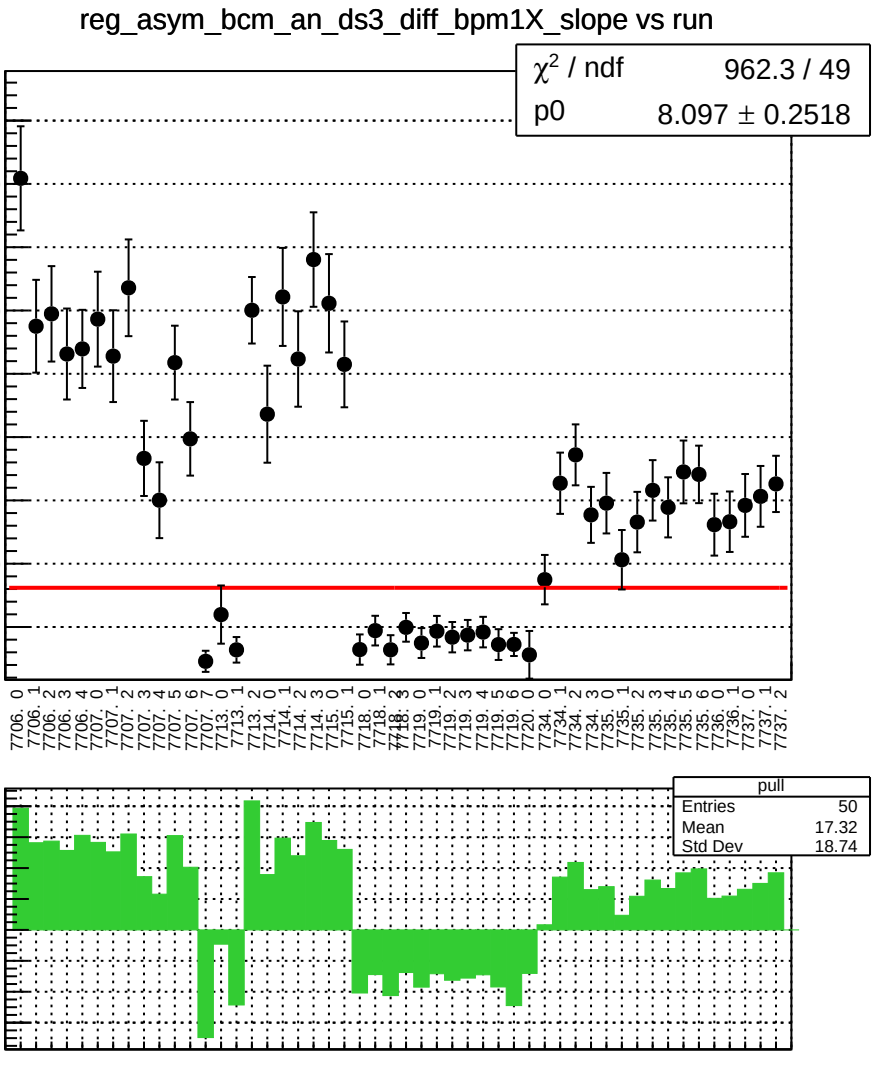

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 163.7 / 49
p0 −70.41 ± 1.238
pull
Entries 50
Mean 24.52
Std Dev 18.75

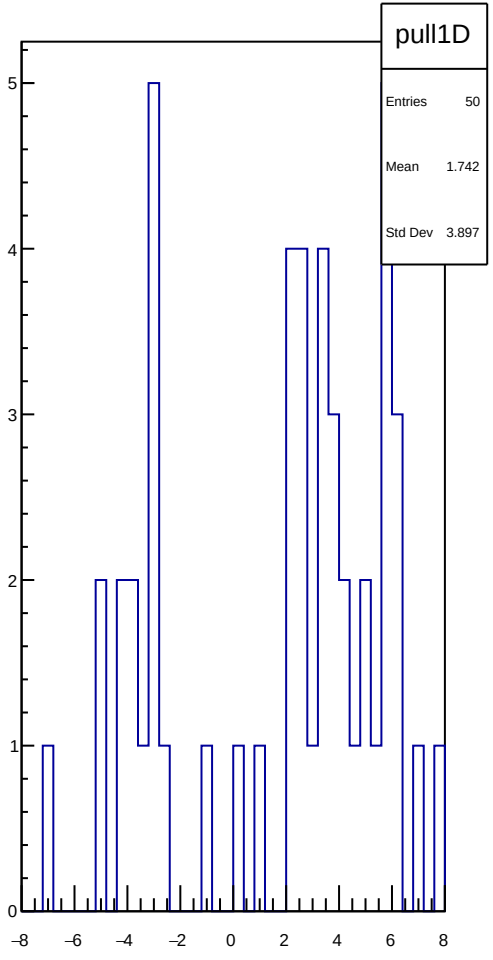

pull1D
Entries 50
Mean 0.8379
Std Dev 1.604

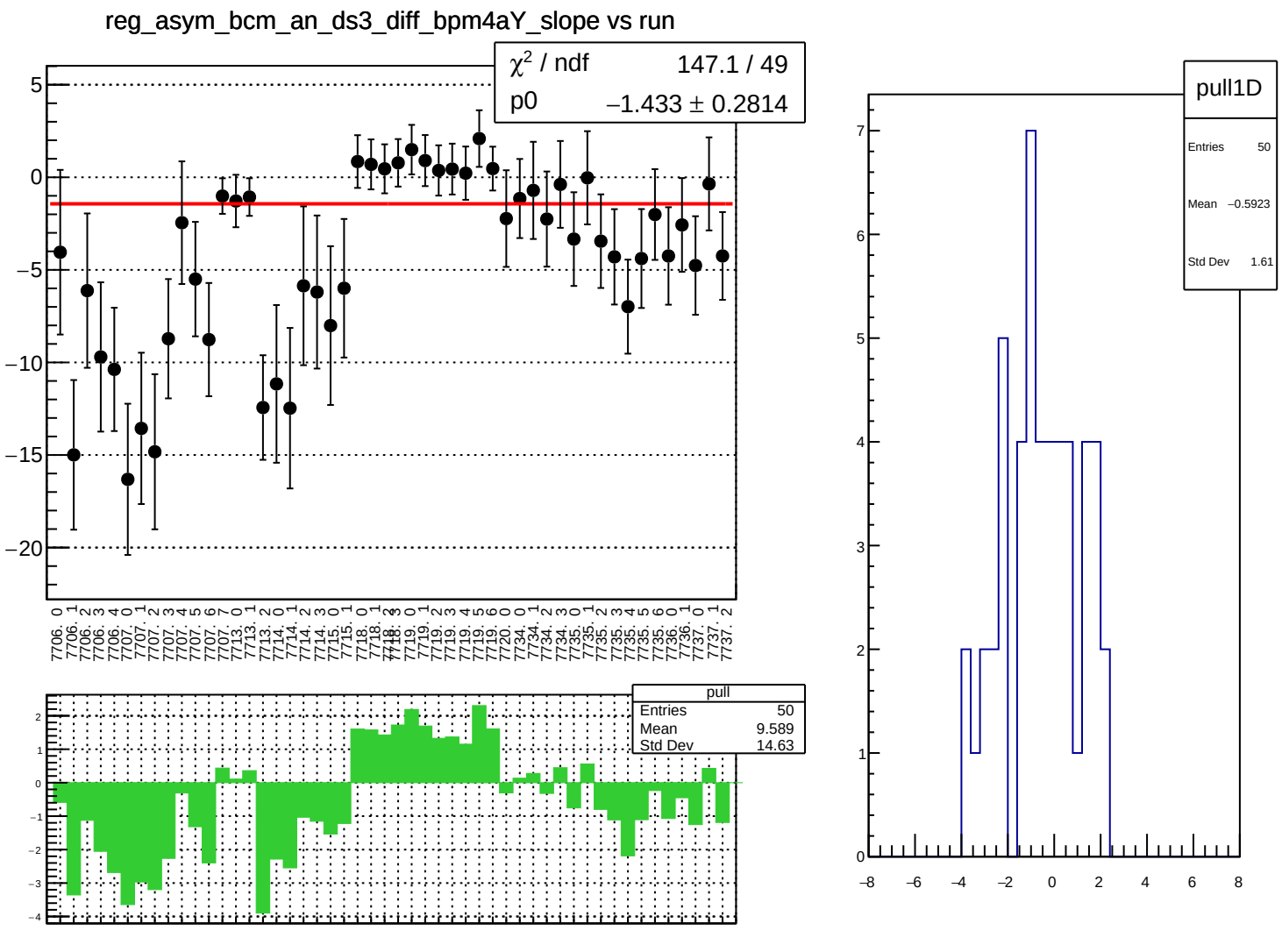

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.23 / 49
p0 8.367 ± 2.525
pull
Entries 50
Mean 82.47
Std Dev 64.09

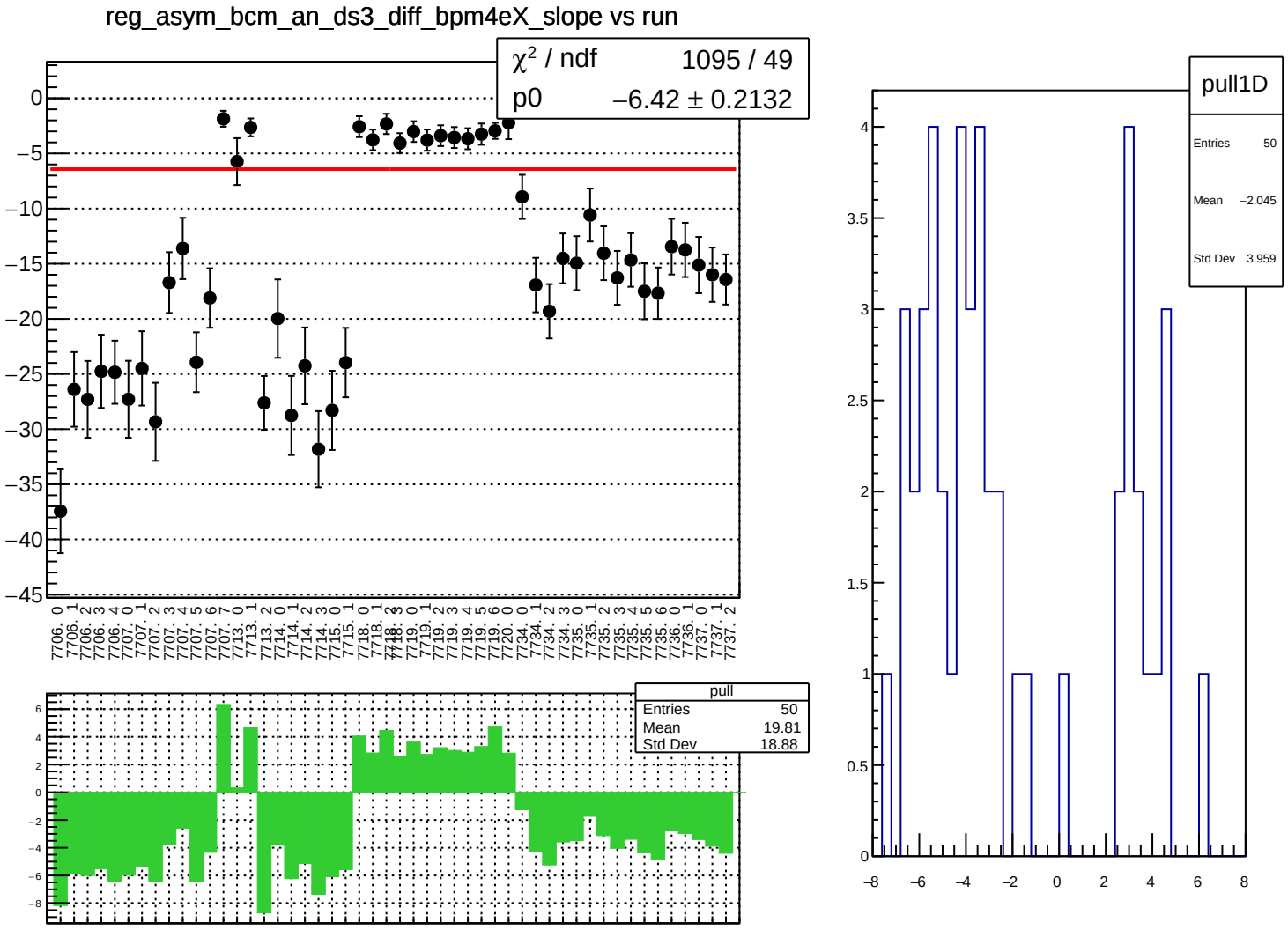

pull1D
Entries 50
Mean 0.007611
Std Dev 0.7242

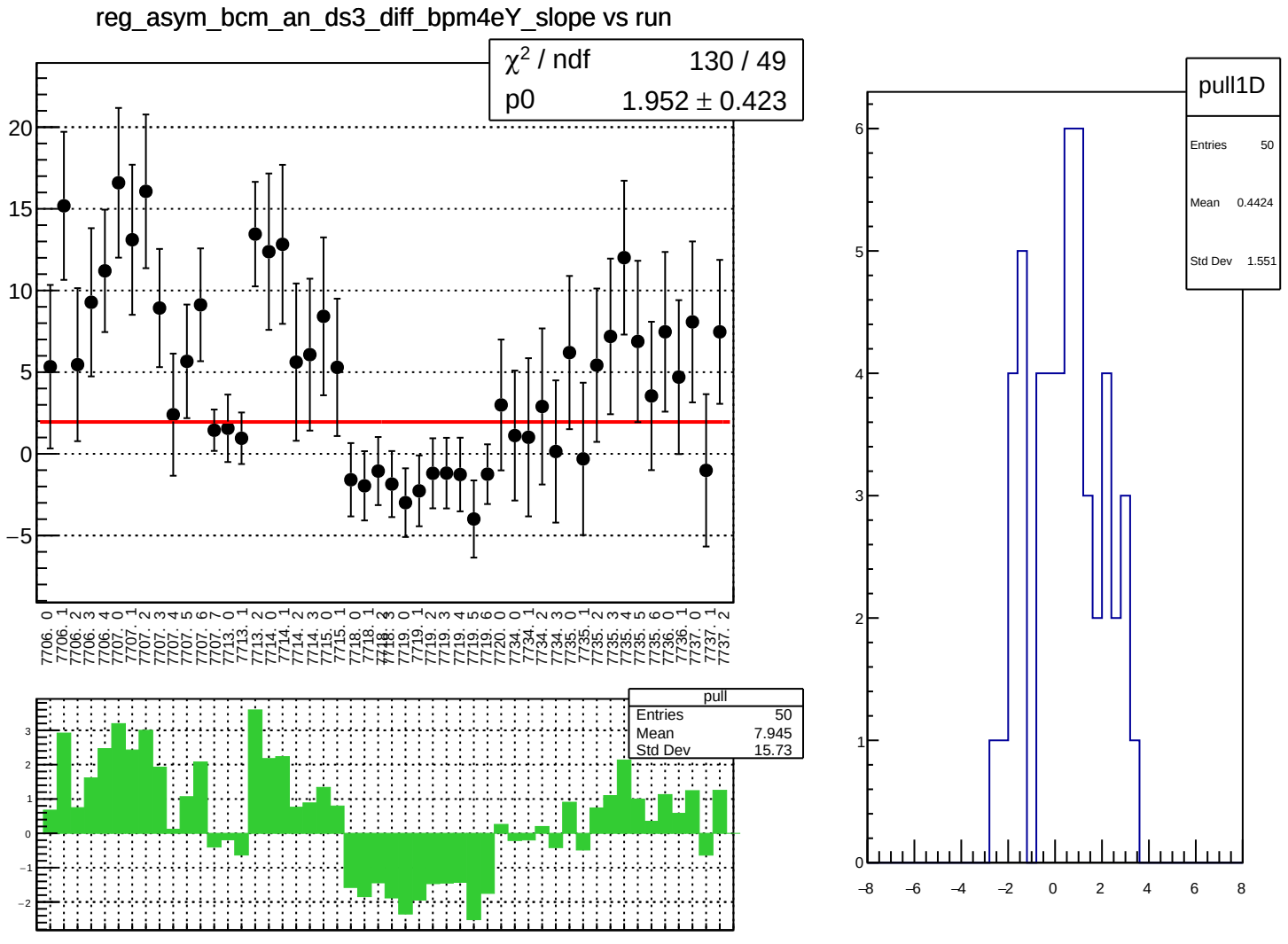

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 222.3 / 49
p0 17.61 ± 0.1135
22
20
18
16
14
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean −221.1
Std Dev 255.6
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 50
Mean 0.02393
Std Dev 2.109
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

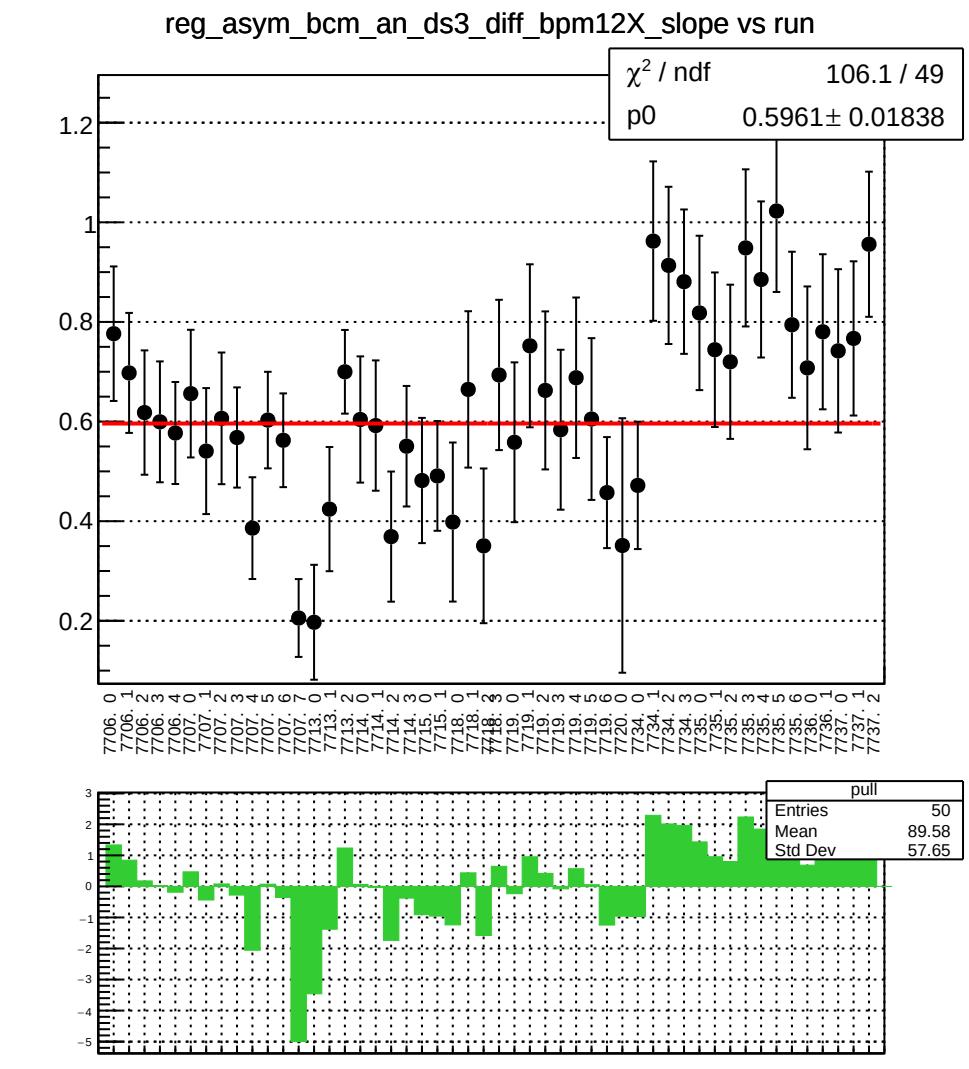

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 962.3 / 49
p0 8.097 ± 0.2518
pull
Entries 50
Mean 17.32
Std Dev 18.74

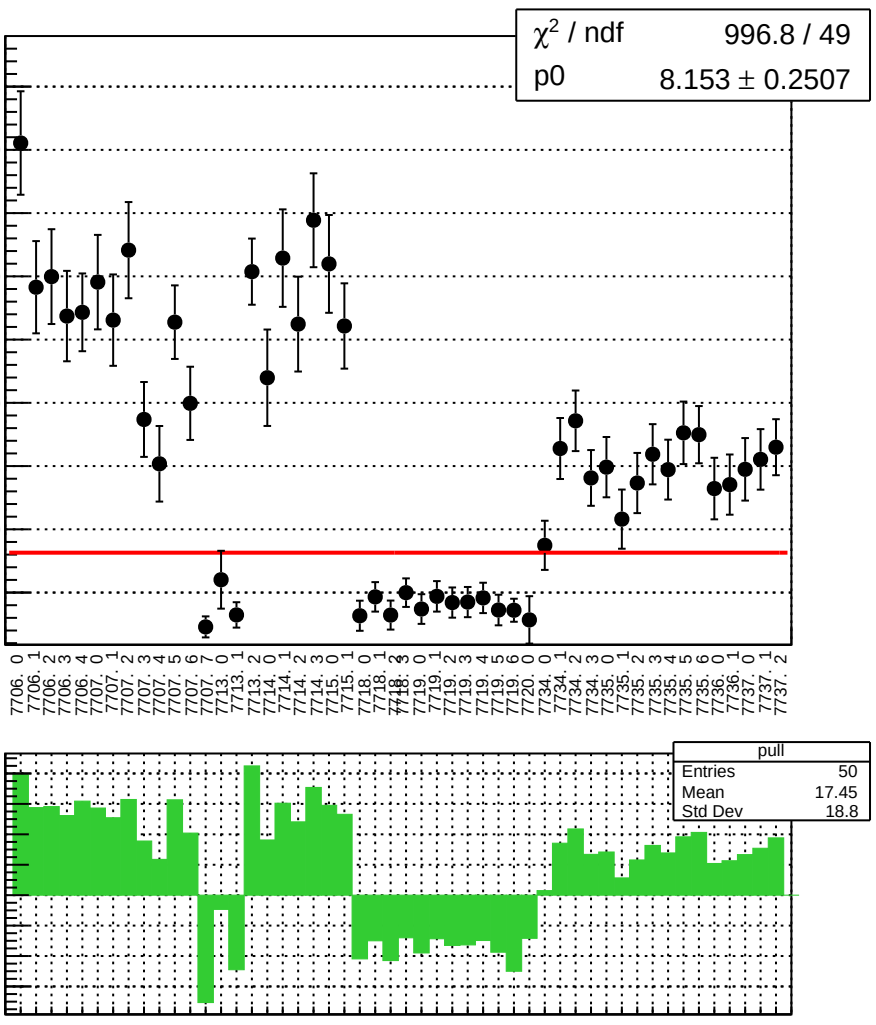

pull1D
Entries 50
Mean 1.742
Std Dev 3.897

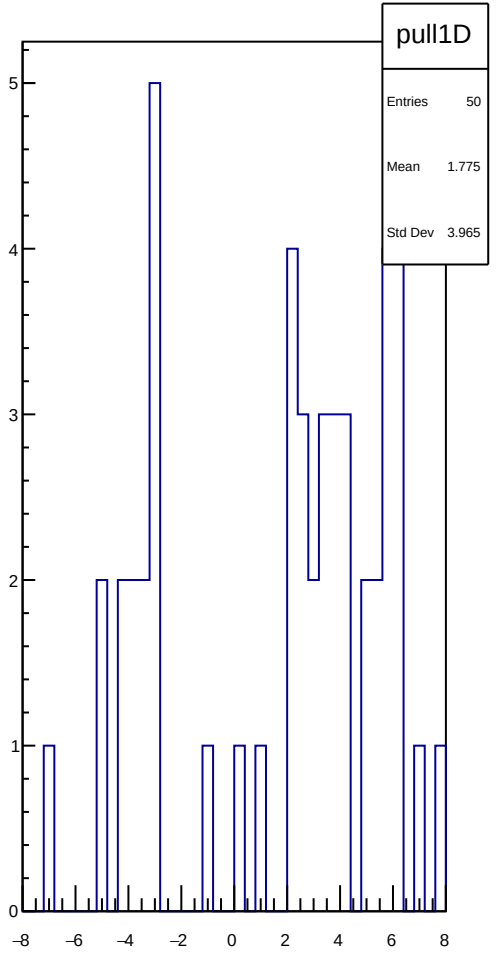

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 147.1 / 49
p0 −1.433 ± 0.2814
pull
Entries 50
Mean 9.589
Std Dev 14.63
pull1D
Entries 50
Mean −0.5923
Std Dev 1.61

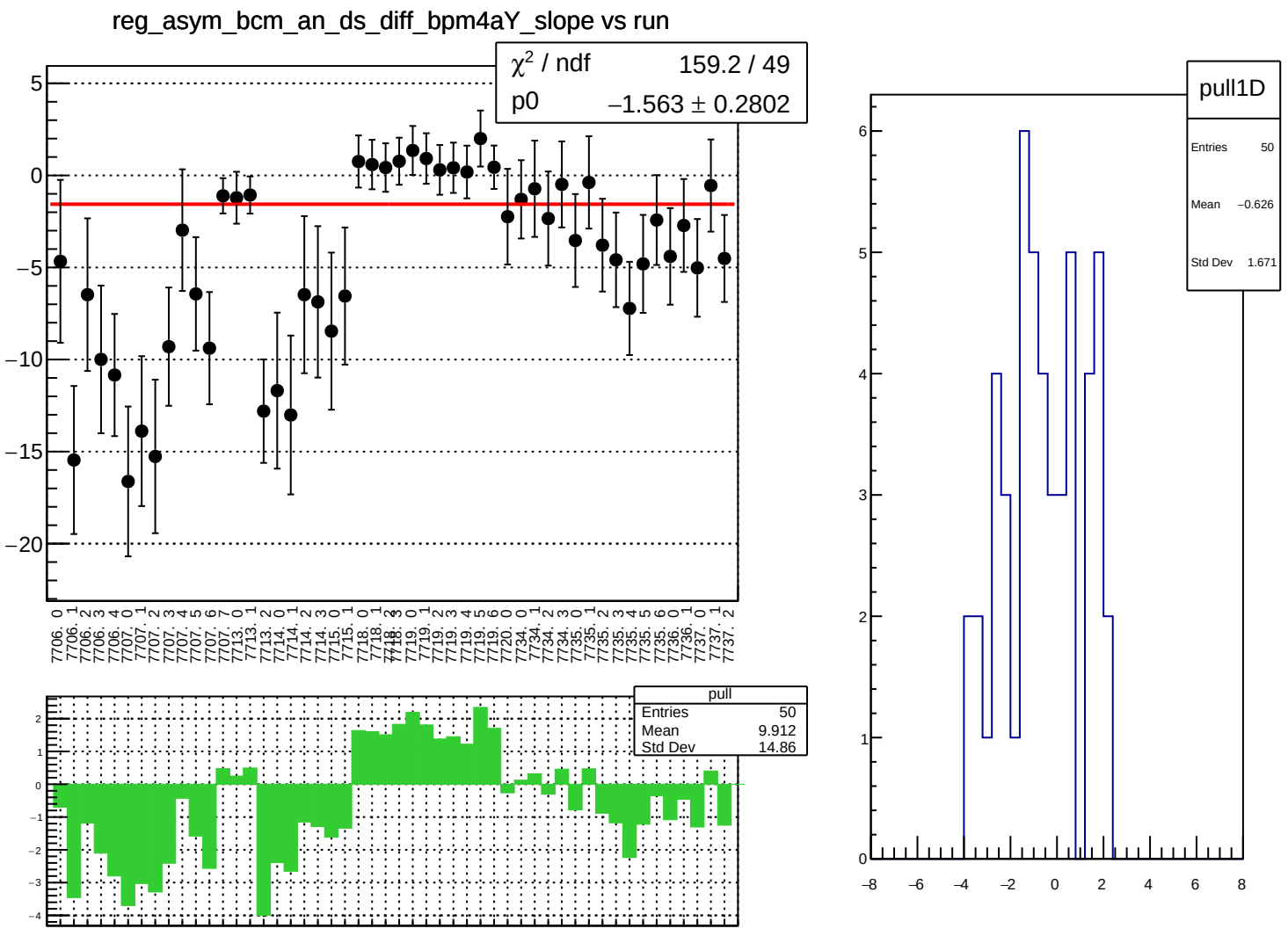

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1095 / 49
p0 −6.42 ± 0.2132
pull
Entries 50
Mean 19.81
Std Dev 18.88
pull1D
Entries 50
Mean −2.045
Std Dev 3.959

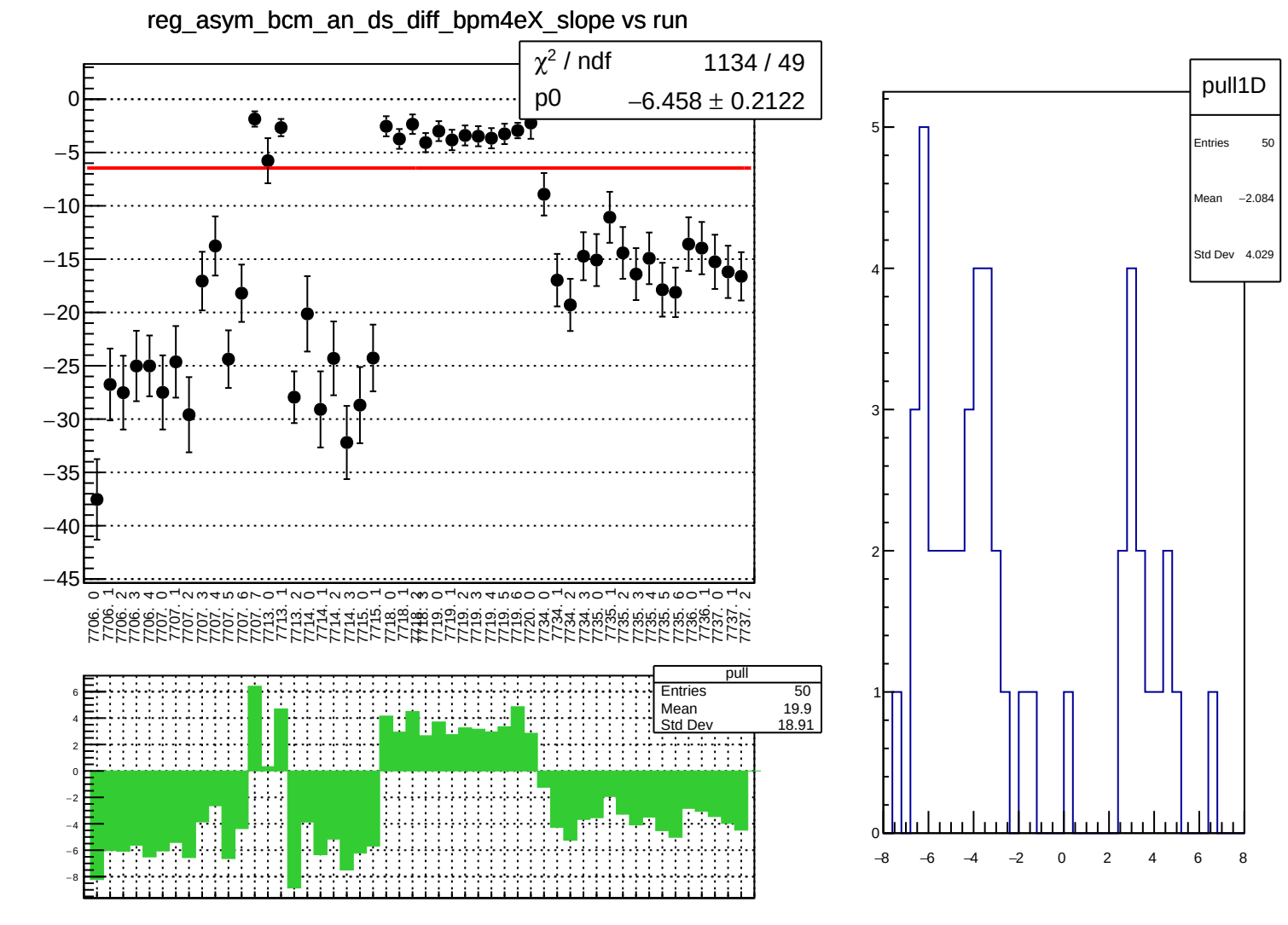

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 130 / 49
p0 1.952 ± 0.423
pull
Entries 50
Mean 7.945
Std Dev 15.73
pull1D
Entries 50
Mean 0.4424
Std Dev 1.551

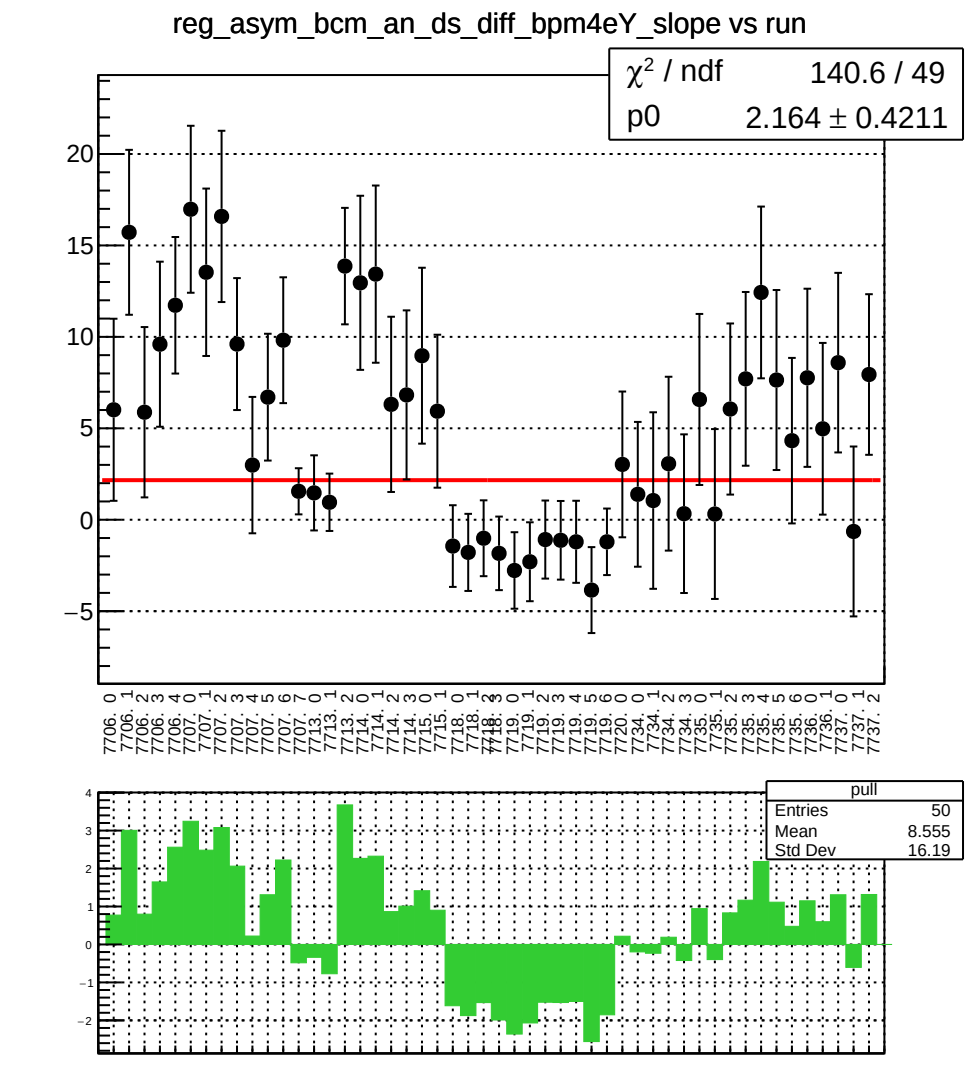

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 106.1 / 49
p0 0.5961± 0.01838
1.2
1
0.8
0.6
0.4
0.2
7706. 0
7706. 1
7706. 2
7706. 3
7706. 4
7707. 0
7707. 1
7707. 2
7707. 3
7707. 4
7707. 5
7707. 6
7707. 7
7713. 0
7713. 1
7713. 2
7714. 0
7714. 1
7714. 2
7714. 3
7715. 0
7715. 1
7718. 0
7718. 1
7718. 2
7718. 3
7719. 0
7719. 1
7719. 2
7719. 3
7719. 4
7719. 5
7719. 6
7720. 0
7734. 0
7734. 1
7734. 2
7734. 3
7735. 0
7735. 1
7735. 2
7735. 3
7735. 4
7735. 5
7735. 6
7736. 0
7736. 1
7737. 0
7737. 1
7737. 2
pull
Entries 50
Mean 89.58
Std Dev 57.65
3
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 50
Mean 0.1551
Std Dev 1.448
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

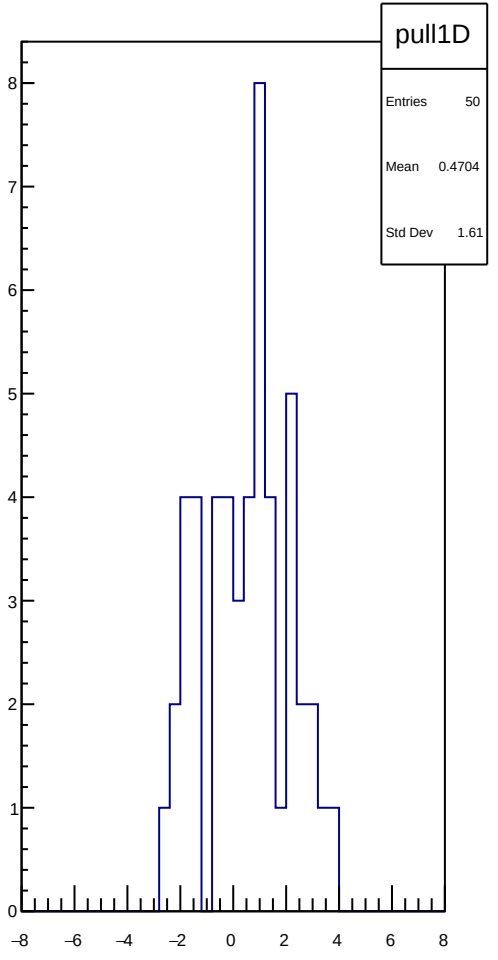

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 996.8 / 49
p0 8.153 ± 0.2507
pull
Entries 50
Mean 17.45
Std Dev 18.8

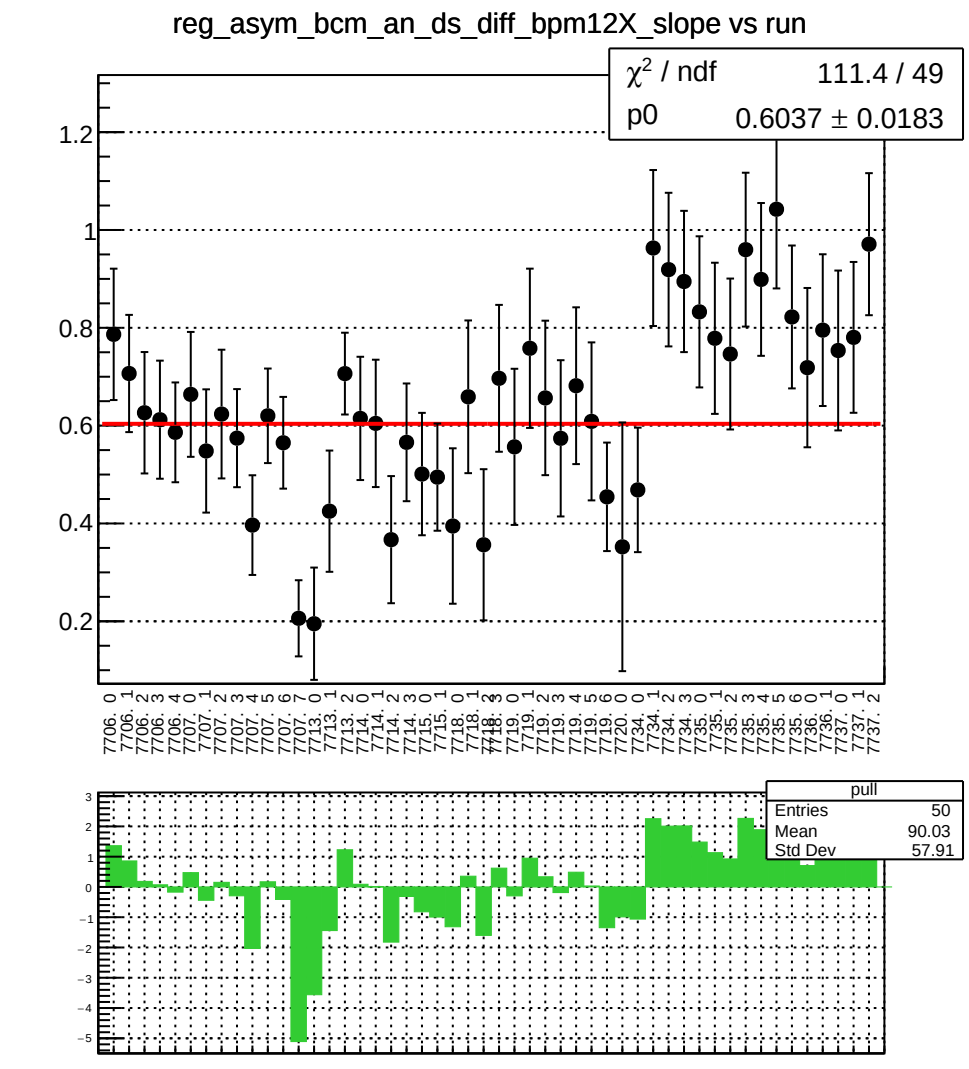

pull1D
Entries 50
Mean 1.775
Std Dev 3.965

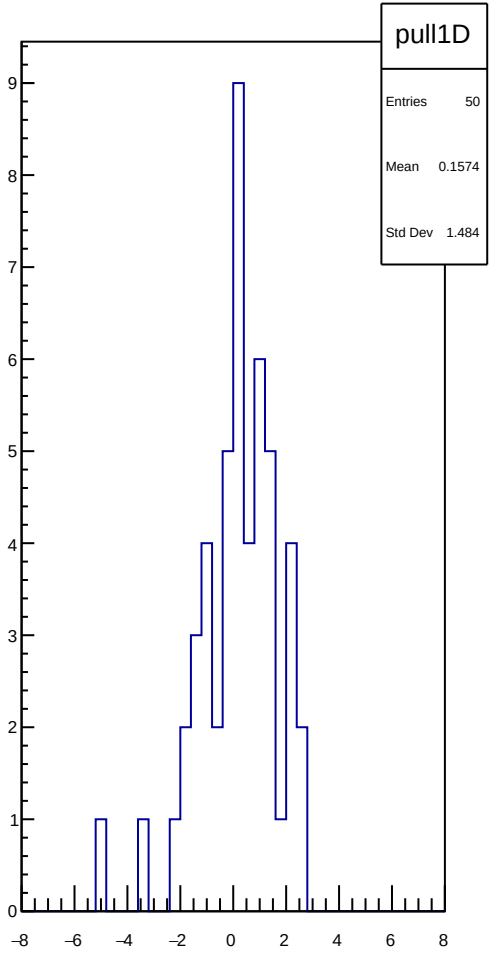

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 159.2 / 49
p0 −1.563 ± 0.2802
pull
Entries 50
Mean 9.912
Std Dev 14.86
pull1D
Entries 50
Mean −0.626
Std Dev 1.671

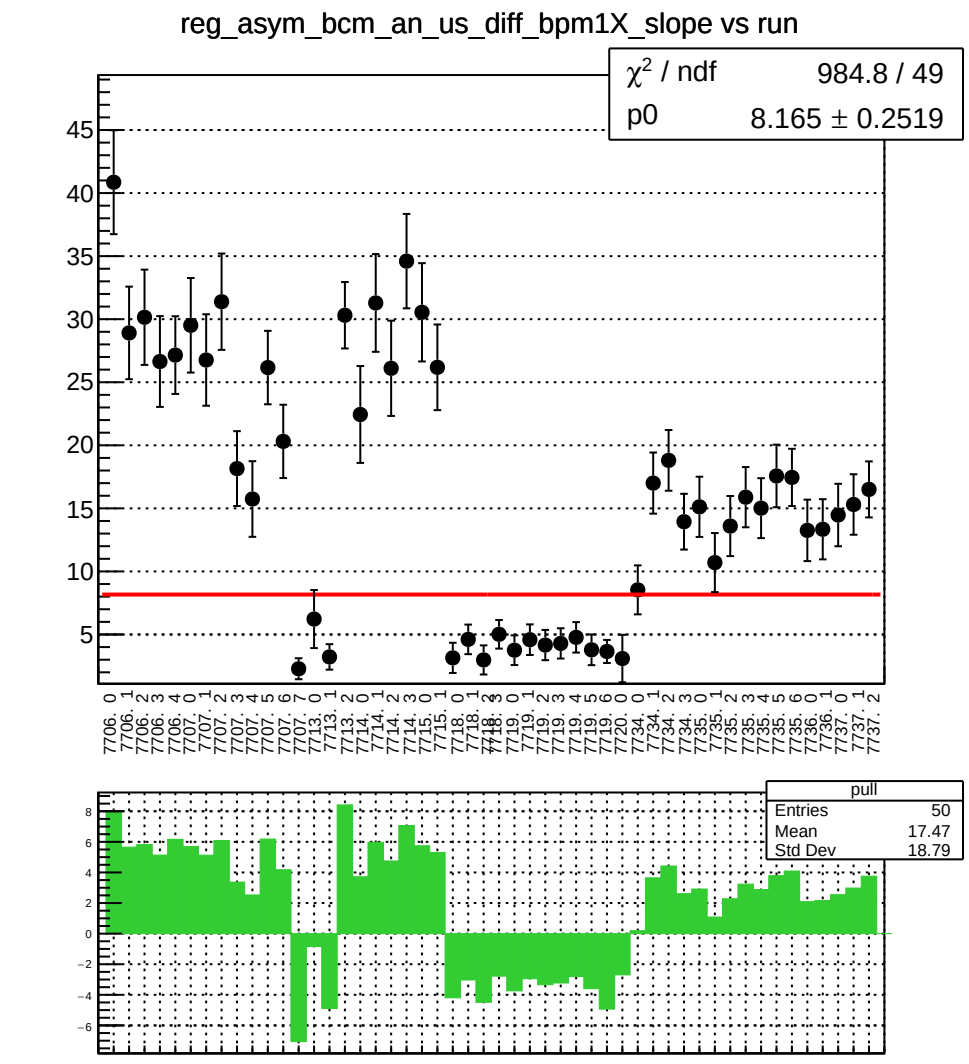

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1134 / 49
p0 −6.458 ± 0.2122
pull
Entries 50
Mean 19.9
Std Dev 18.91
pull1D
Entries 50
Mean −2.084
Std Dev 4.029

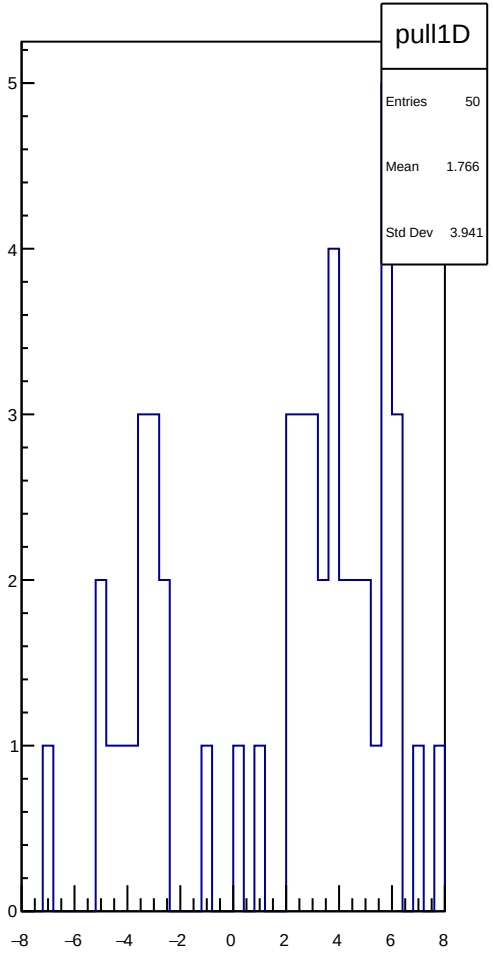

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 140.6 / 49
p0 2.164 ± 0.4211
pull
Entries 50
Mean 8.555
Std Dev 16.19

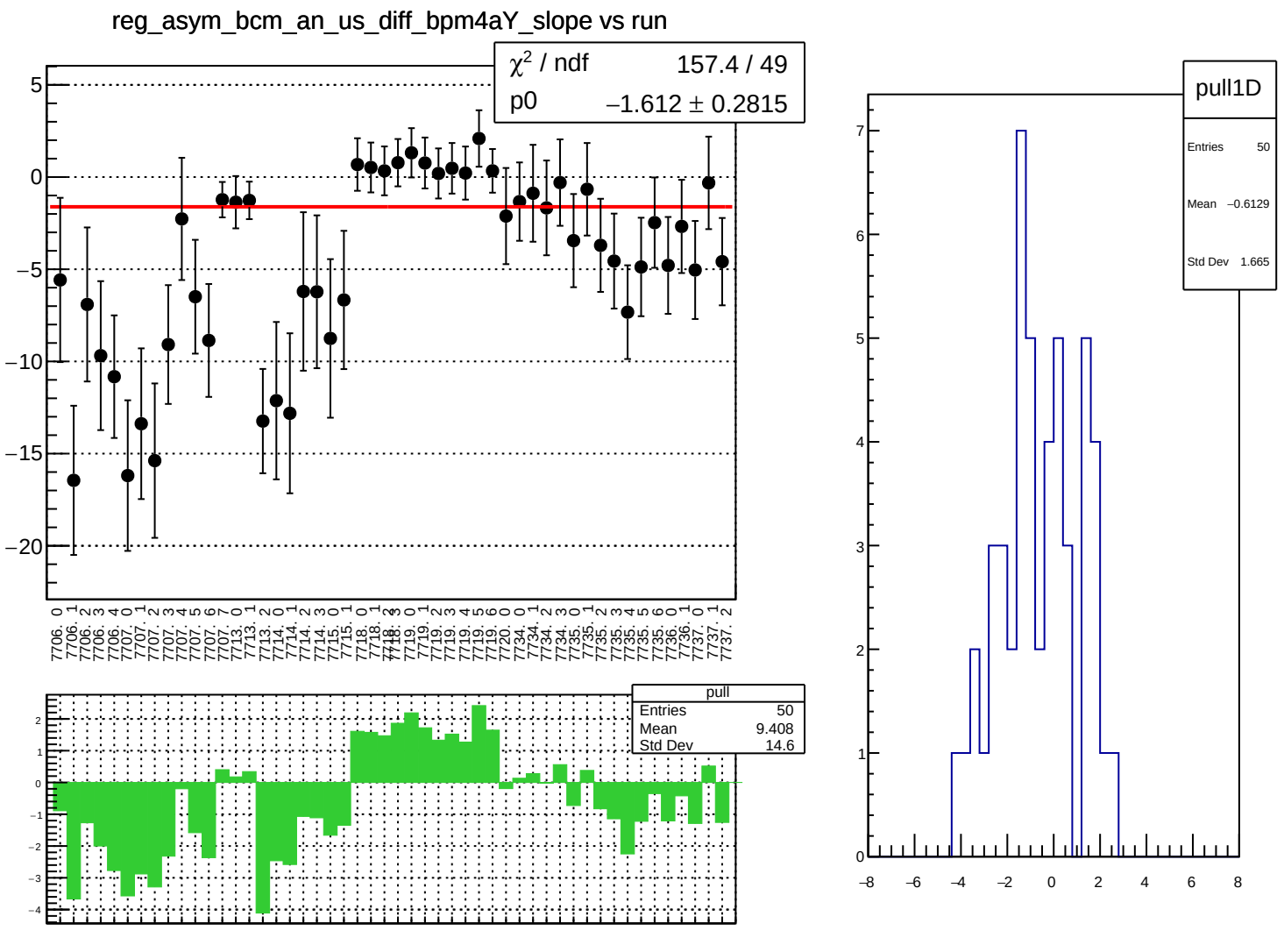

pull1D
Entries 50
Mean 0.4704
Std Dev 1.61

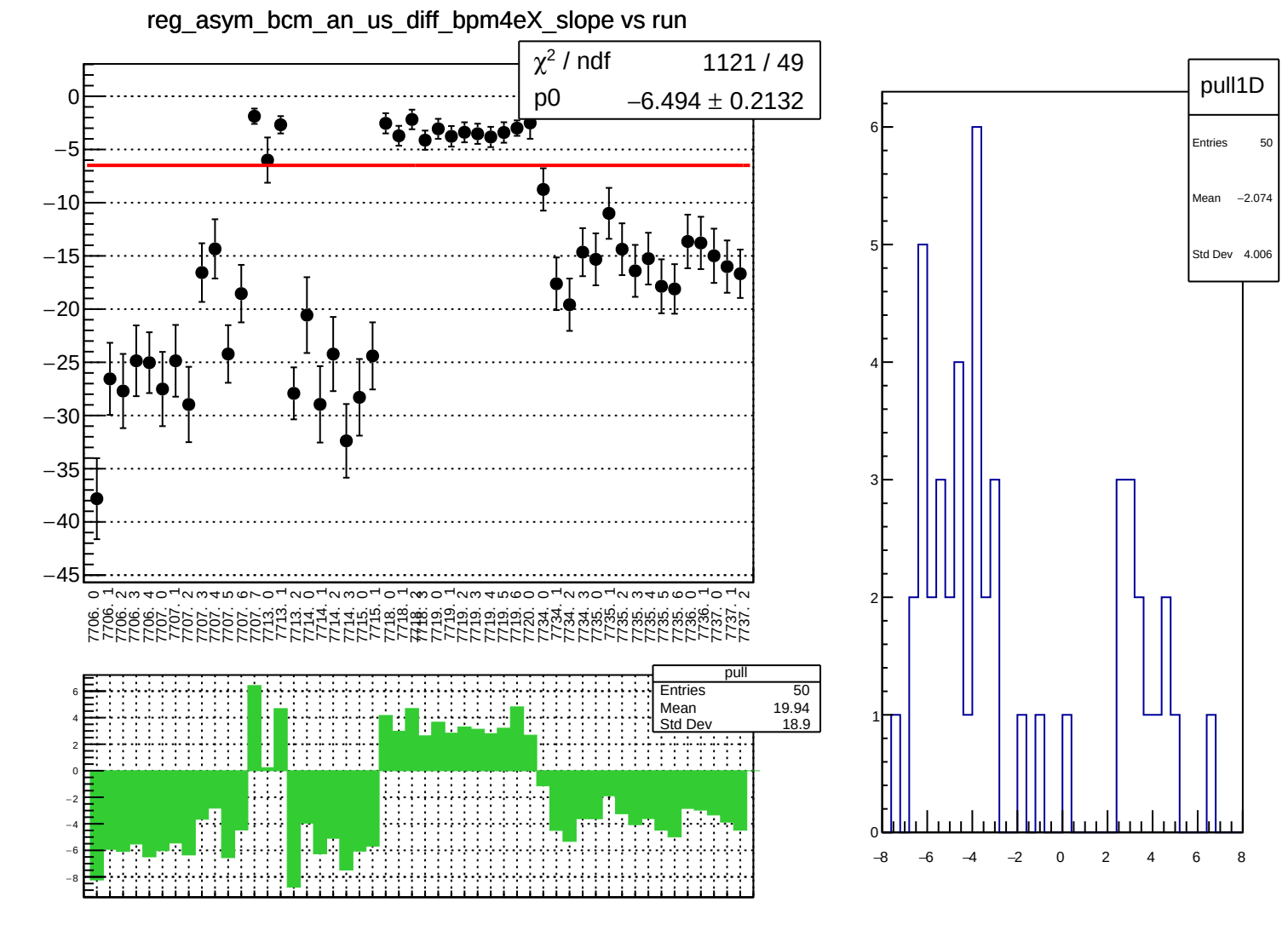

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 111.4 / 49
p0 0.6037 ± 0.0183
pull
Entries 50
Mean 90.03
Std Dev 57.91

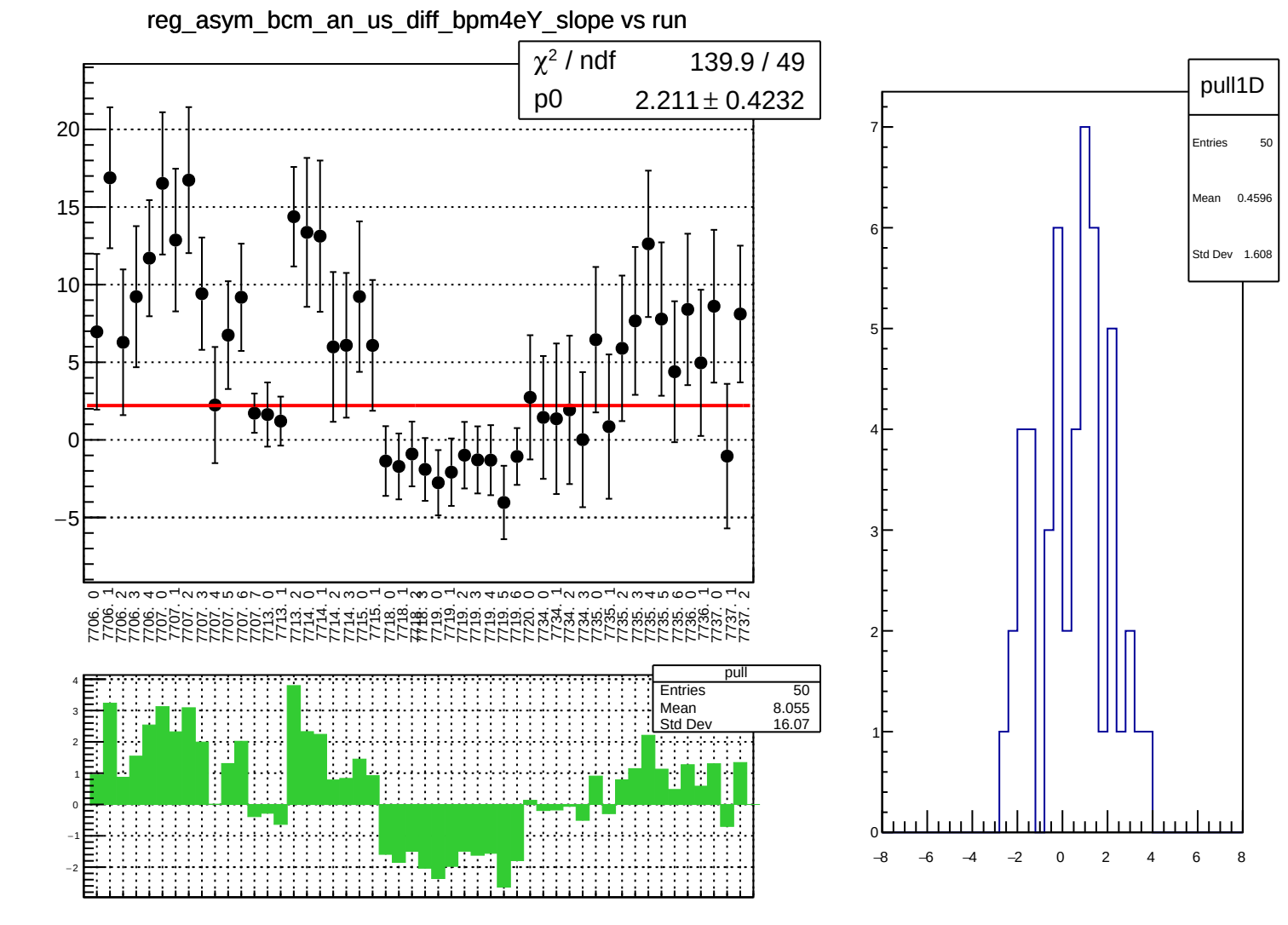

pull1D
Entries 50
Mean 0.1574
Std Dev 1.484

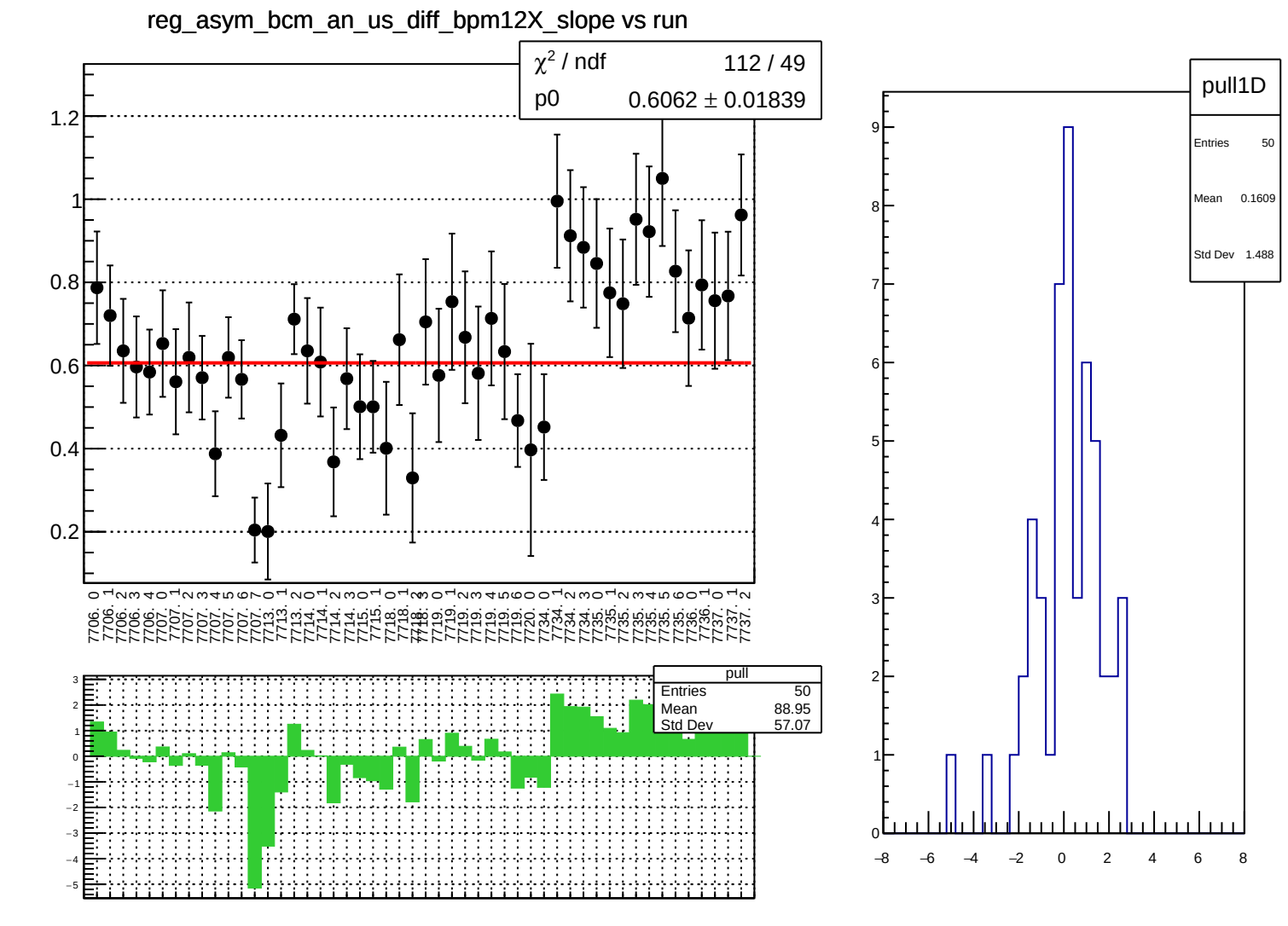

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 984.8 / 49
p0 8.165 ± 0.2519
pull
Entries 50
Mean 17.47
Std Dev 18.79

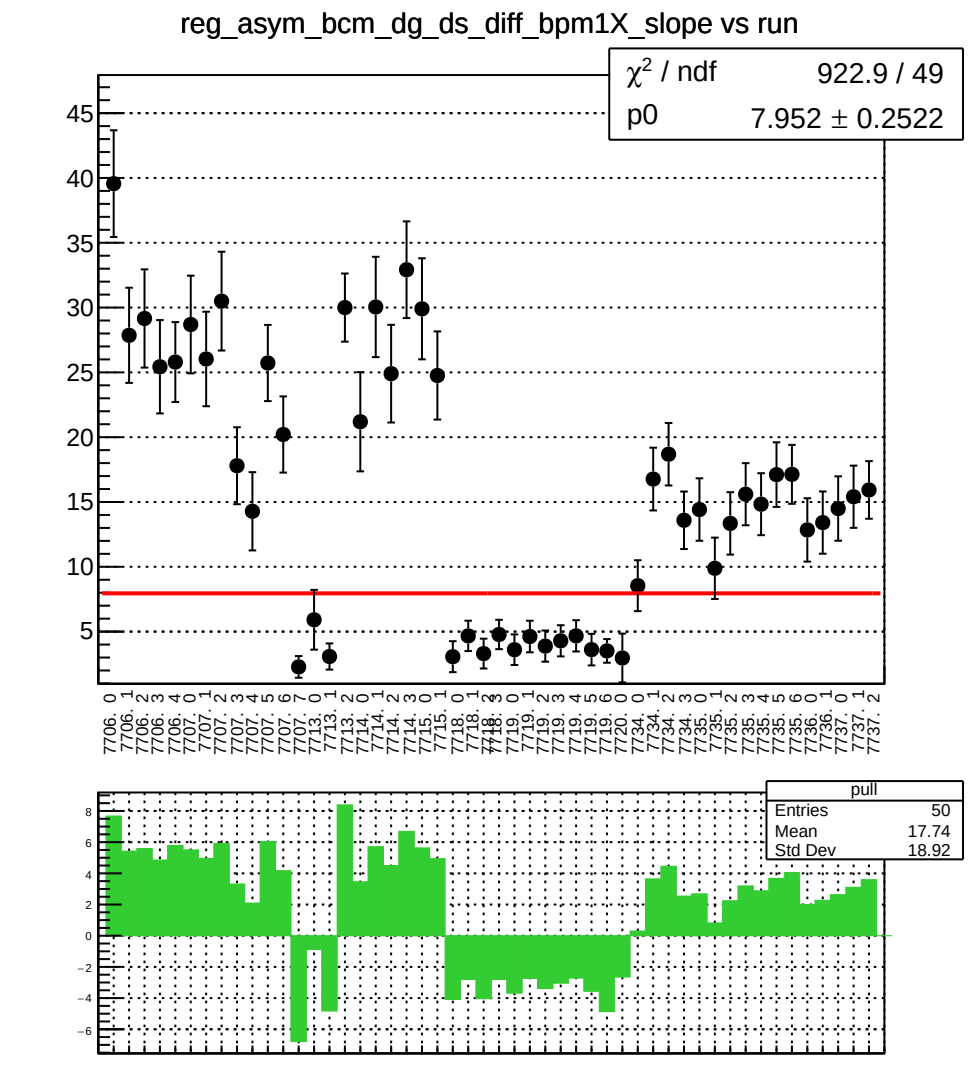

pull1D
Entries 50
Mean 1.766
Std Dev 3.941

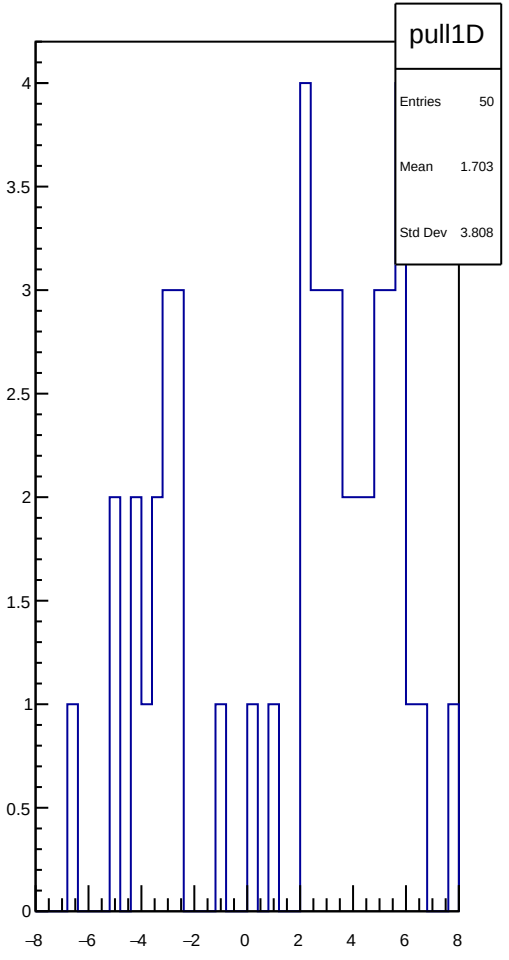

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 157.4 / 49
p0 −1.612 ± 0.2815
pull
Entries 50
Mean 9.408
Std Dev 14.6
pull1D
Entries 50
Mean −0.6129
Std Dev 1.665

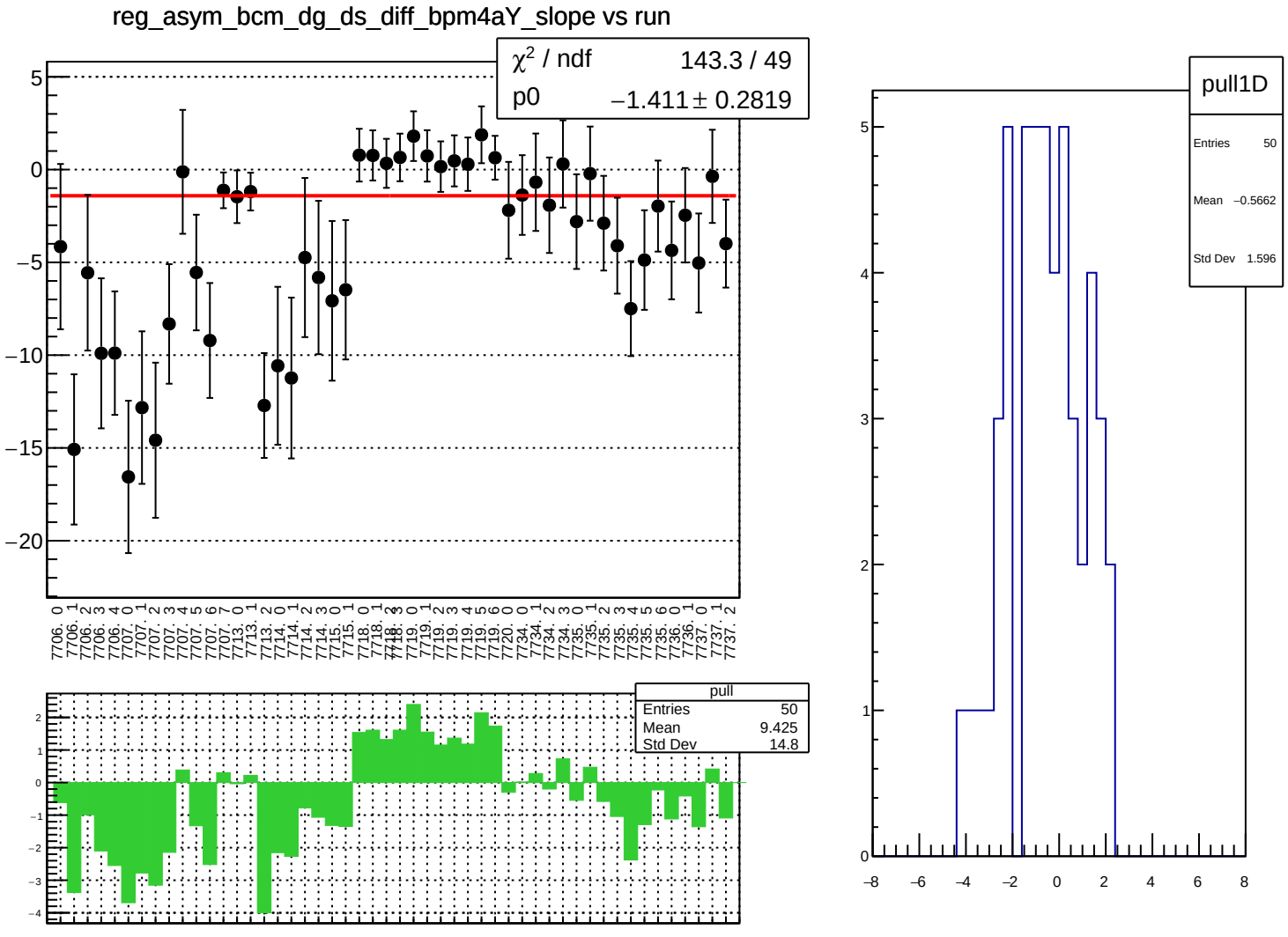

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1121 / 49
p0 −6.494 ± 0.2132
pull
Entries 50
Mean 19.94
Std Dev 18.9
pull1D
Entries 50
Mean −2.074
Std Dev 4.006

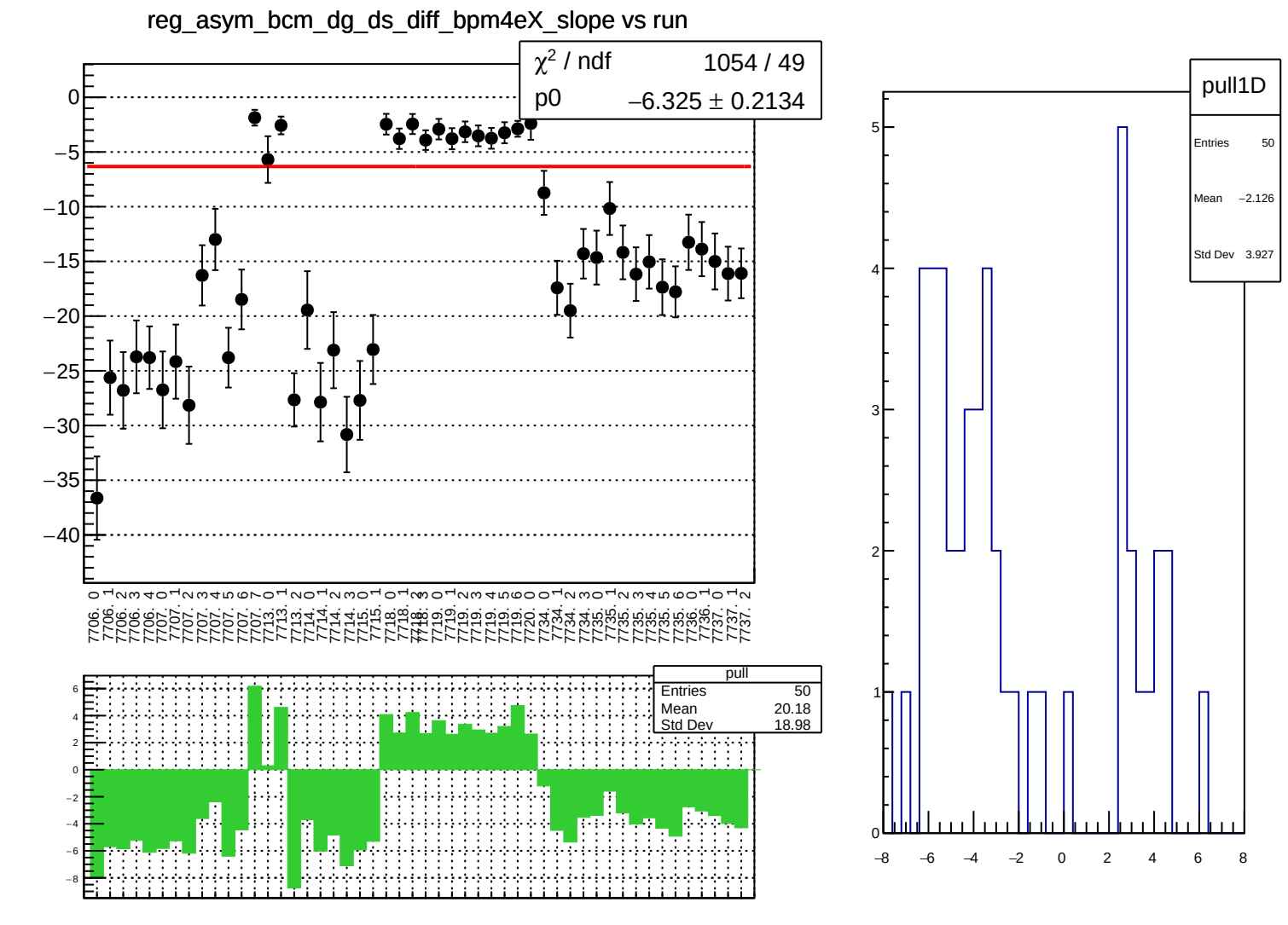

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 139.9 / 49
p0 2.211 ± 0.4232
pull
Entries 50
Mean 8.055
Std Dev 16.07
pull1D
Entries 50
Mean 0.4596
Std Dev 1.608

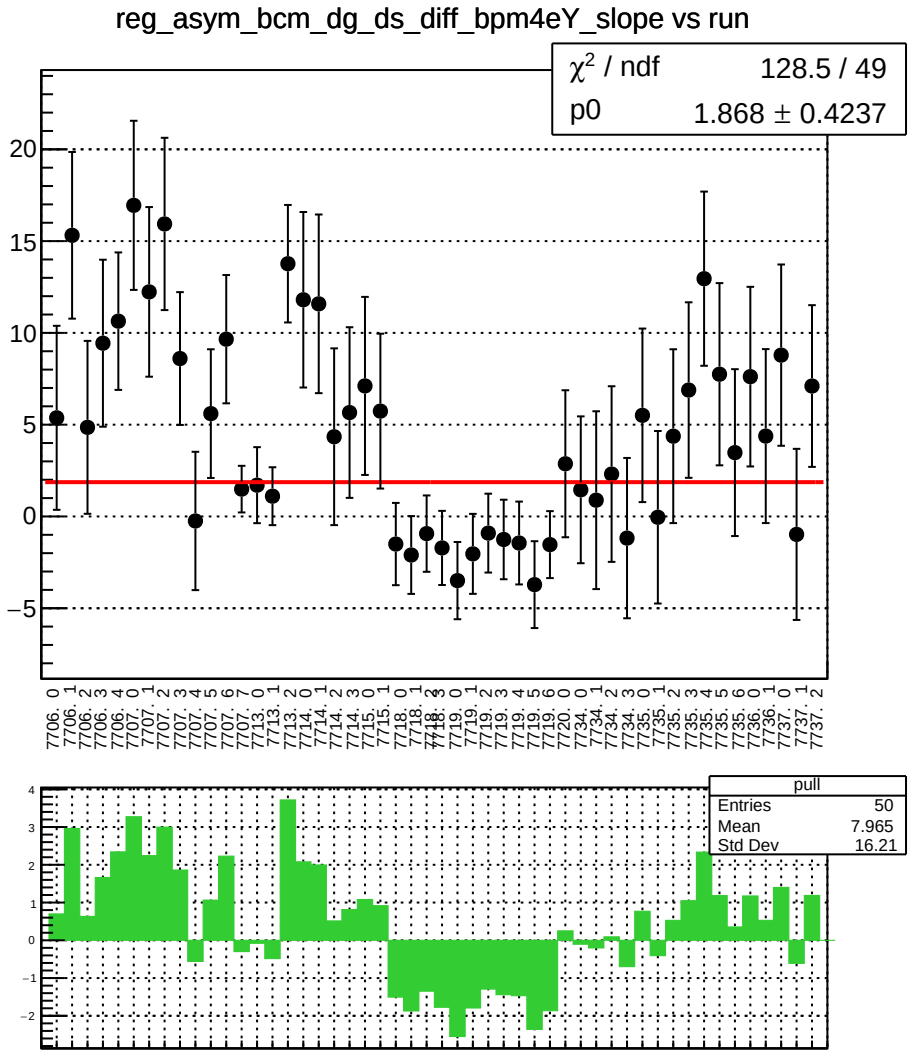

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 112 / 49
p0 0.6062 ± 0.01839
pull
Entries 50
Mean 88.95
Std Dev 57.07
pull1D
Entries 50
Mean 0.1609
Std Dev 1.488

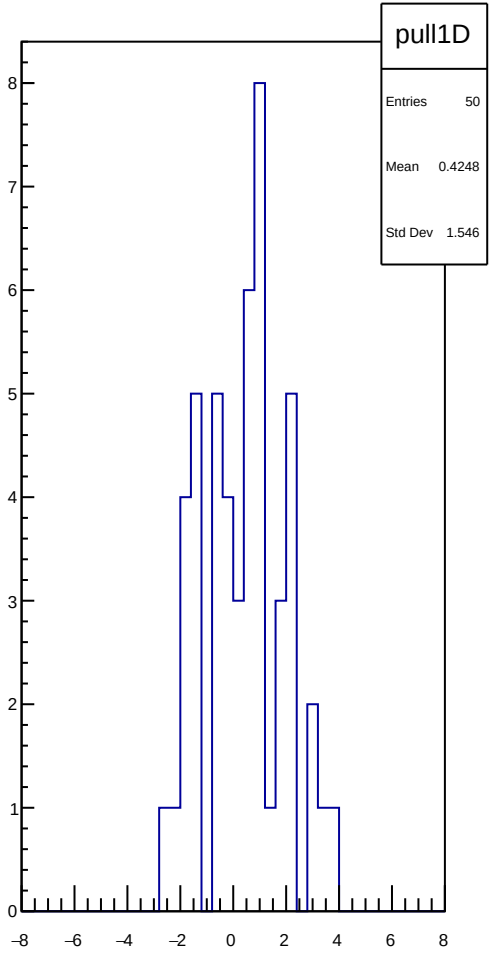

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 922.9 / 49
p0 7.952 ± 0.2522
pull
Entries 50
Mean 17.74
Std Dev 18.92

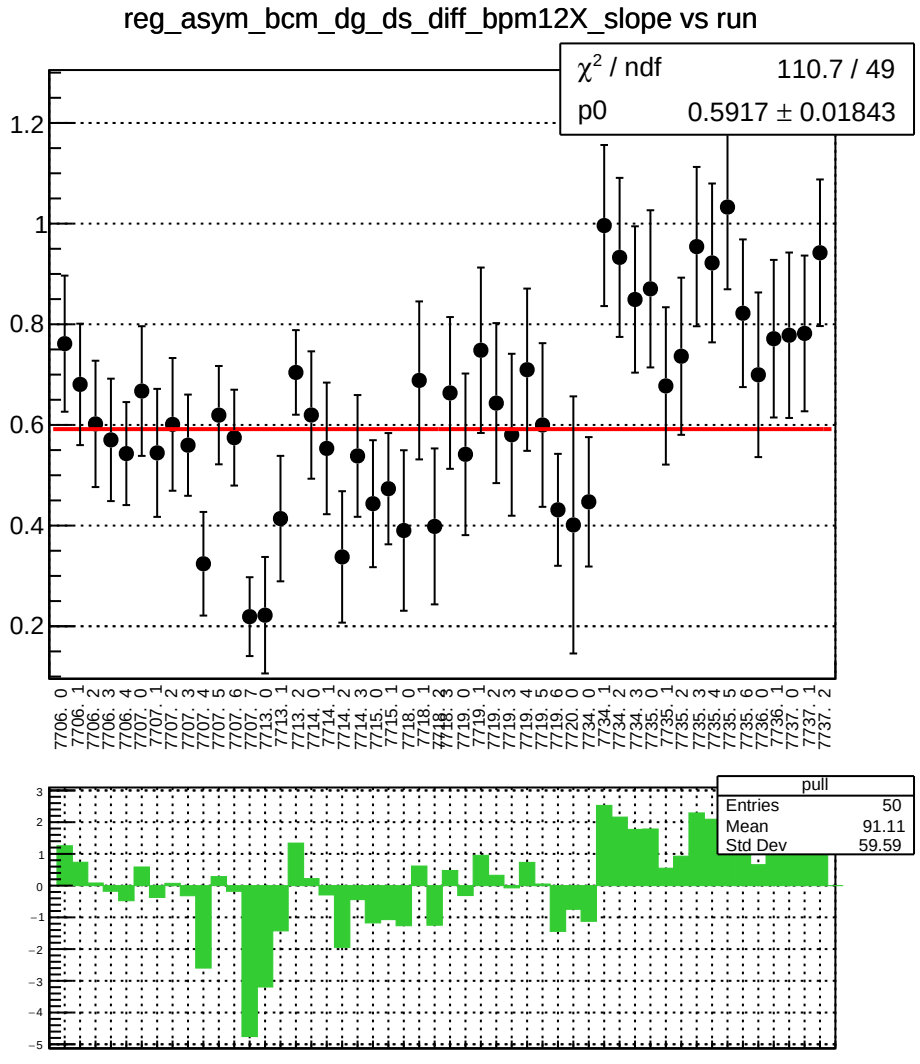

pull1D
Entries 50
Mean 1.703
Std Dev 3.808

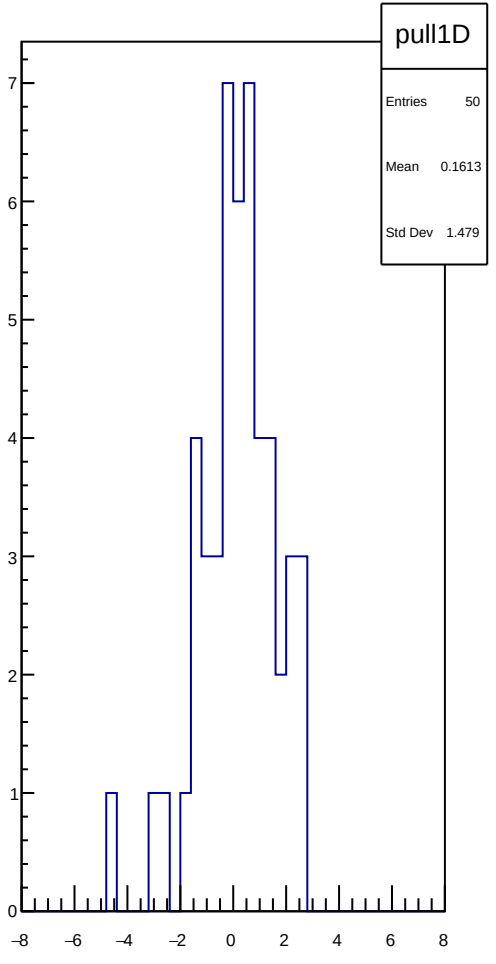

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 143.3 / 49
p0 −1.411 ± 0.2819
pull
Entries 50
Mean 9.425
Std Dev 14.8
pull1D
Entries 50
Mean −0.5662
Std Dev 1.596

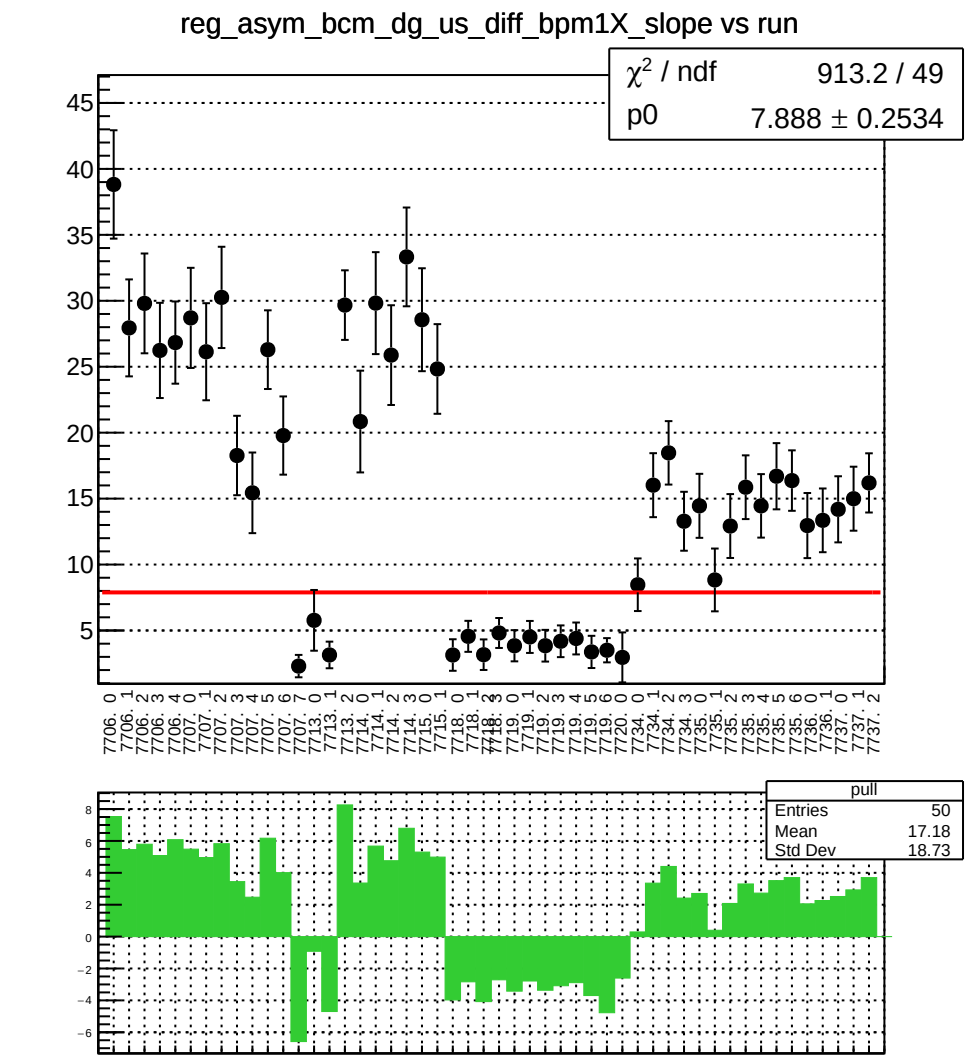

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1054 / 49
p0 −6.325 ± 0.2134
pull
Entries 50
Mean 20.18
Std Dev 18.98
pull1D
Entries 50
Mean −2.126
Std Dev 3.927

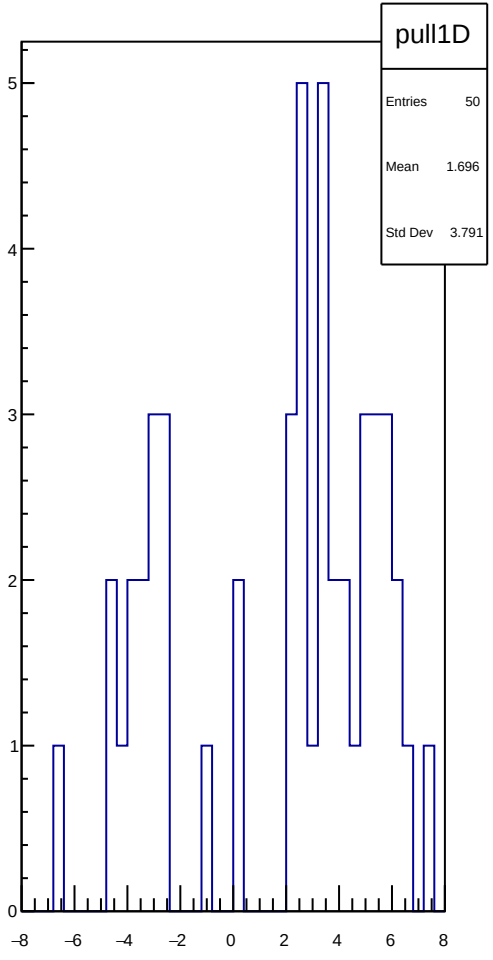

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 128.5 / 49
p0 1.868 ± 0.4237
pull
Entries 50
Mean 7.965
Std Dev 16.21

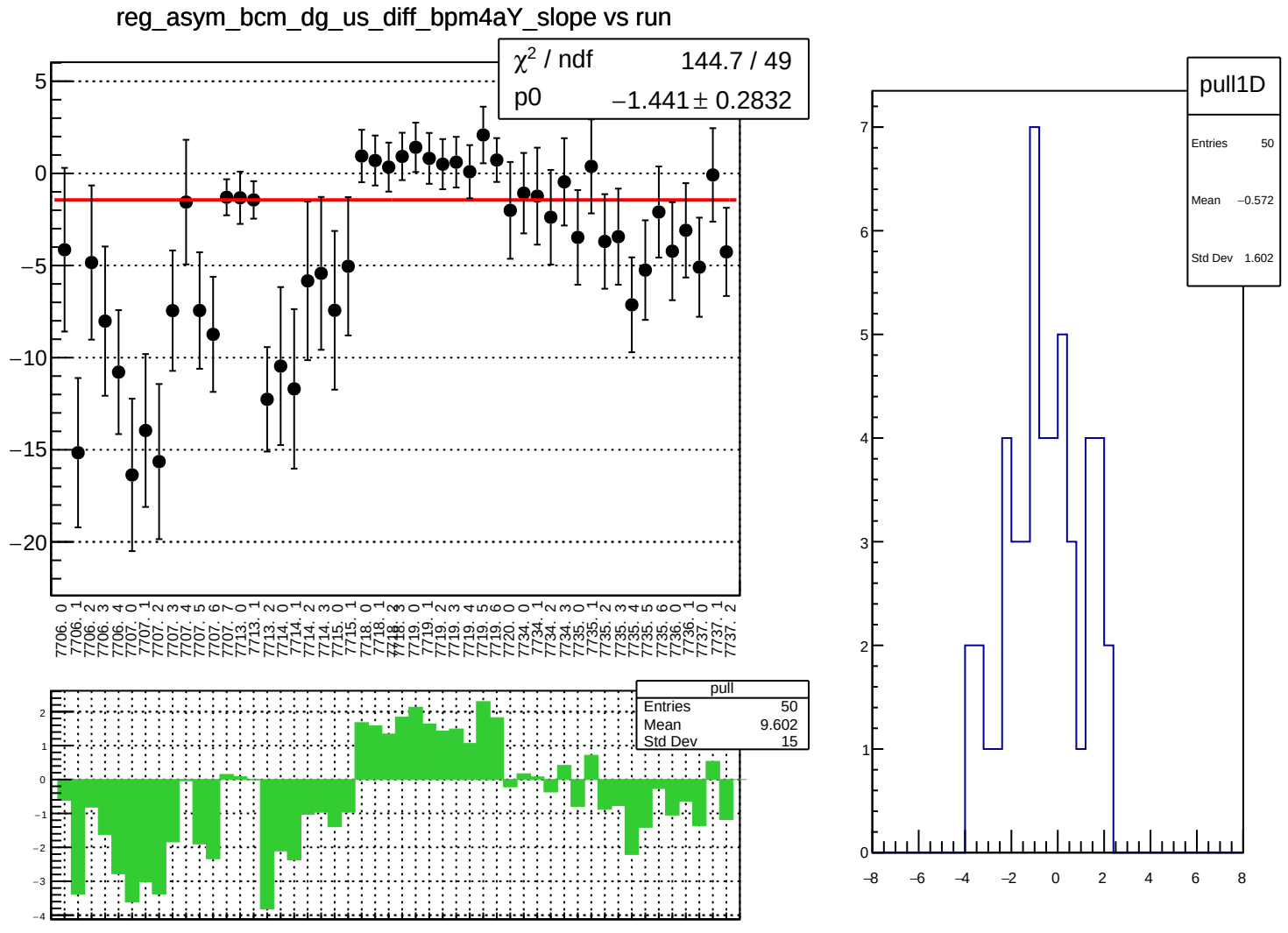

pull1D
Entries 50
Mean 0.4248
Std Dev 1.546

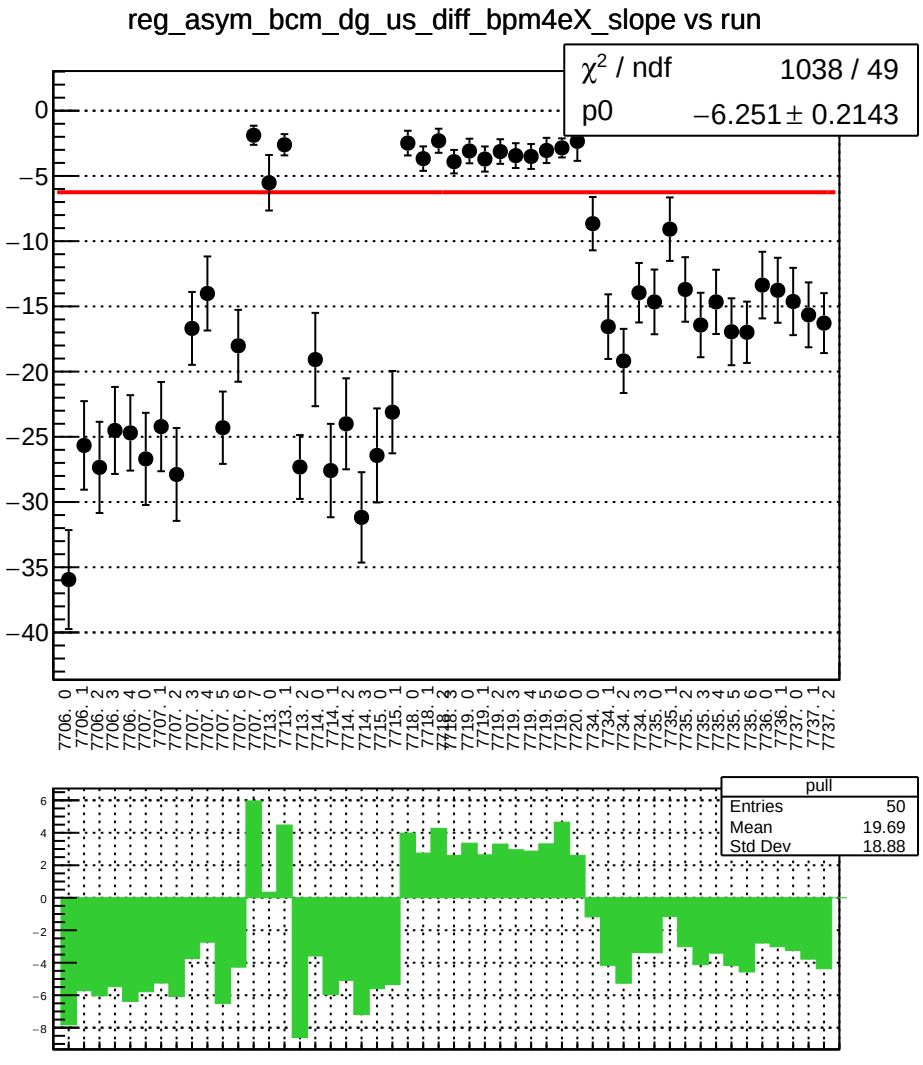

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 110.7 / 49
p0 0.5917 ± 0.01843
pull
Entries 50
Mean 91.11
Std Dev 59.59

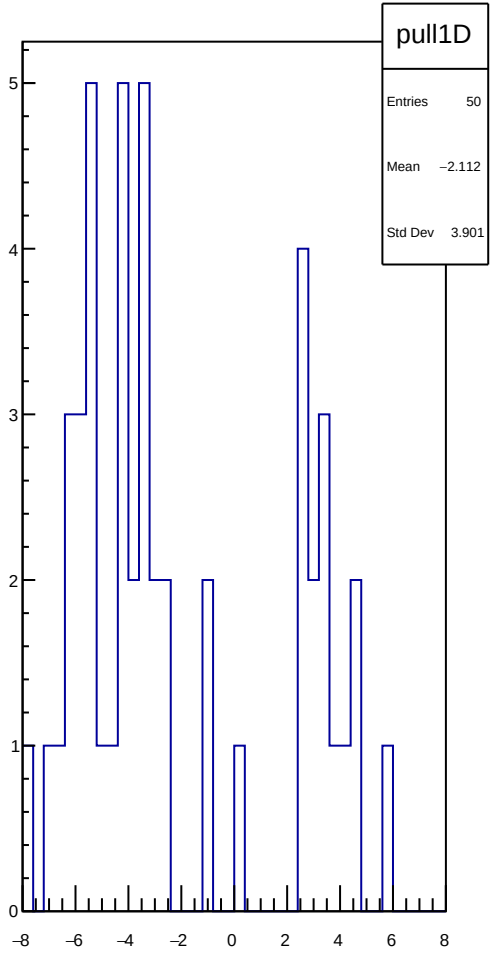

pull1D
Entries 50
Mean 0.1613
Std Dev 1.479

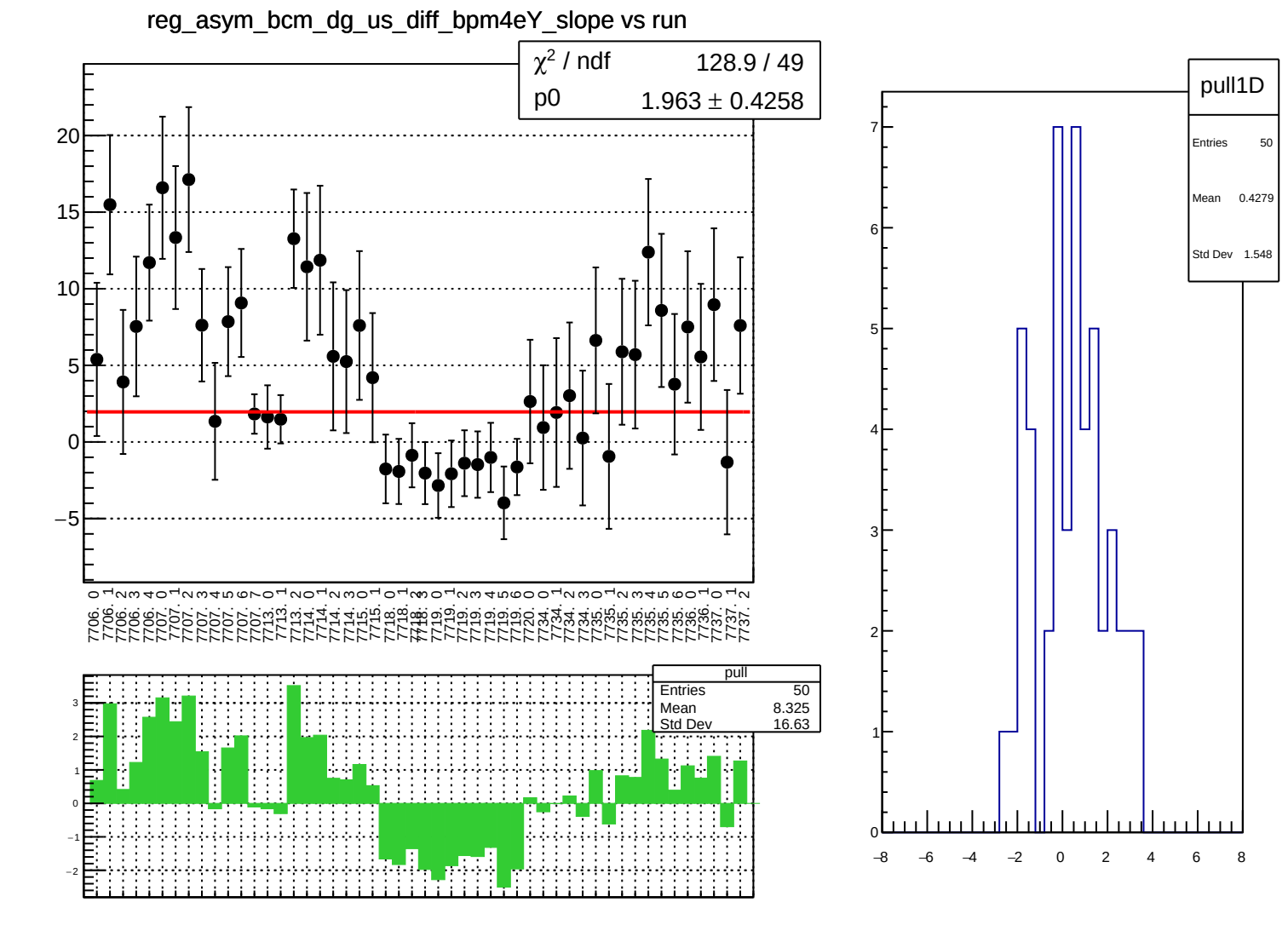

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 913.2 / 49
p0 7.888 ± 0.2534
pull
Entries 50
Mean 17.18
Std Dev 18.73

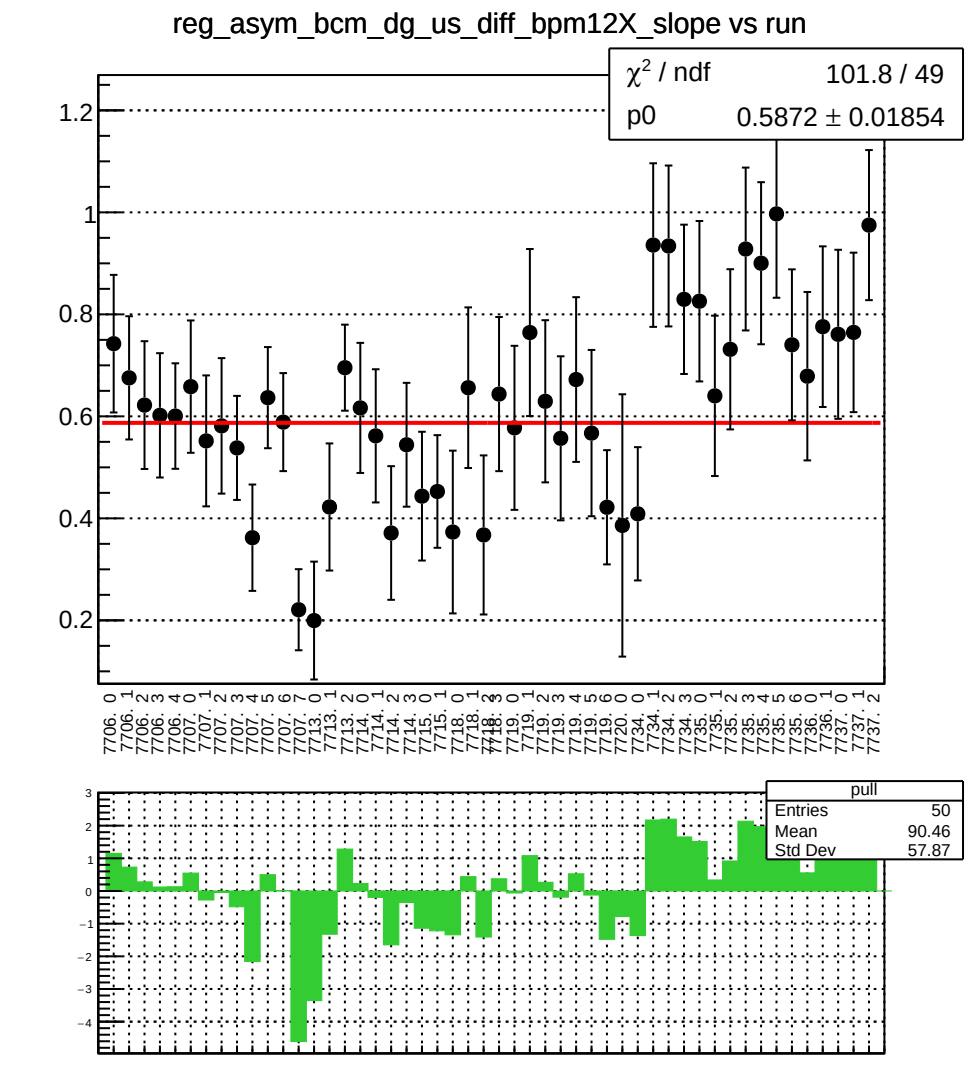

pull1D
Entries 50
Mean 1.696
Std Dev 3.791

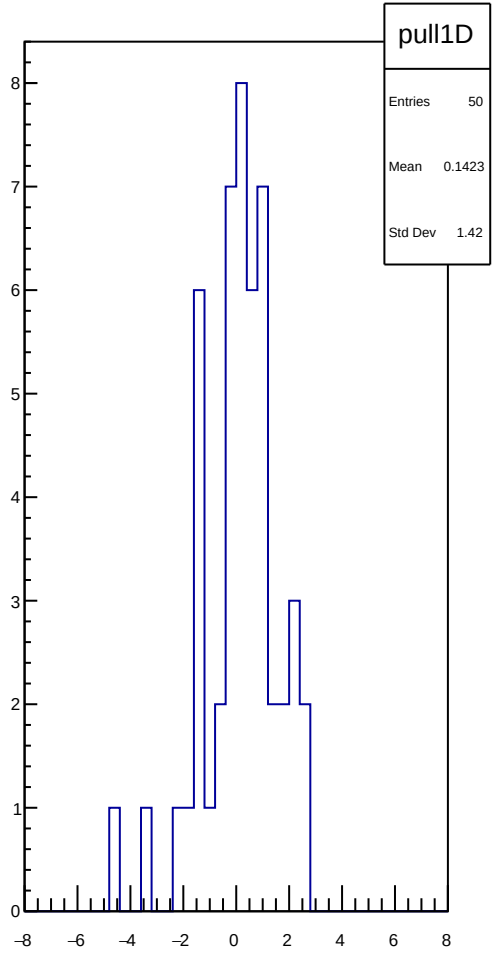

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 144.7 / 49
p0 −1.441 ± 0.2832
pull
Entries 50
Mean 9.602
Std Dev 15
pull1D
Entries 50
Mean −0.572
Std Dev 1.602


reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1038 / 49
p0 −6.251 ± 0.2143
pull
Entries 50
Mean 19.69
Std Dev 18.88


pull1D
Entries 50
Mean −2.112
Std Dev 3.901


reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 128.9 / 49
p0 1.963 ± 0.4258
pull
Entries 50
Mean 8.325
Std Dev 16.63
pull1D
Entries 50
Mean 0.4279
Std Dev 1.548


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 101.8 / 49
p0 0.5872 ± 0.01854
pull
Entries 50
Mean 90.46
Std Dev 57.87


pull1D
Entries 50
Mean 0.1423
Std Dev 1.42