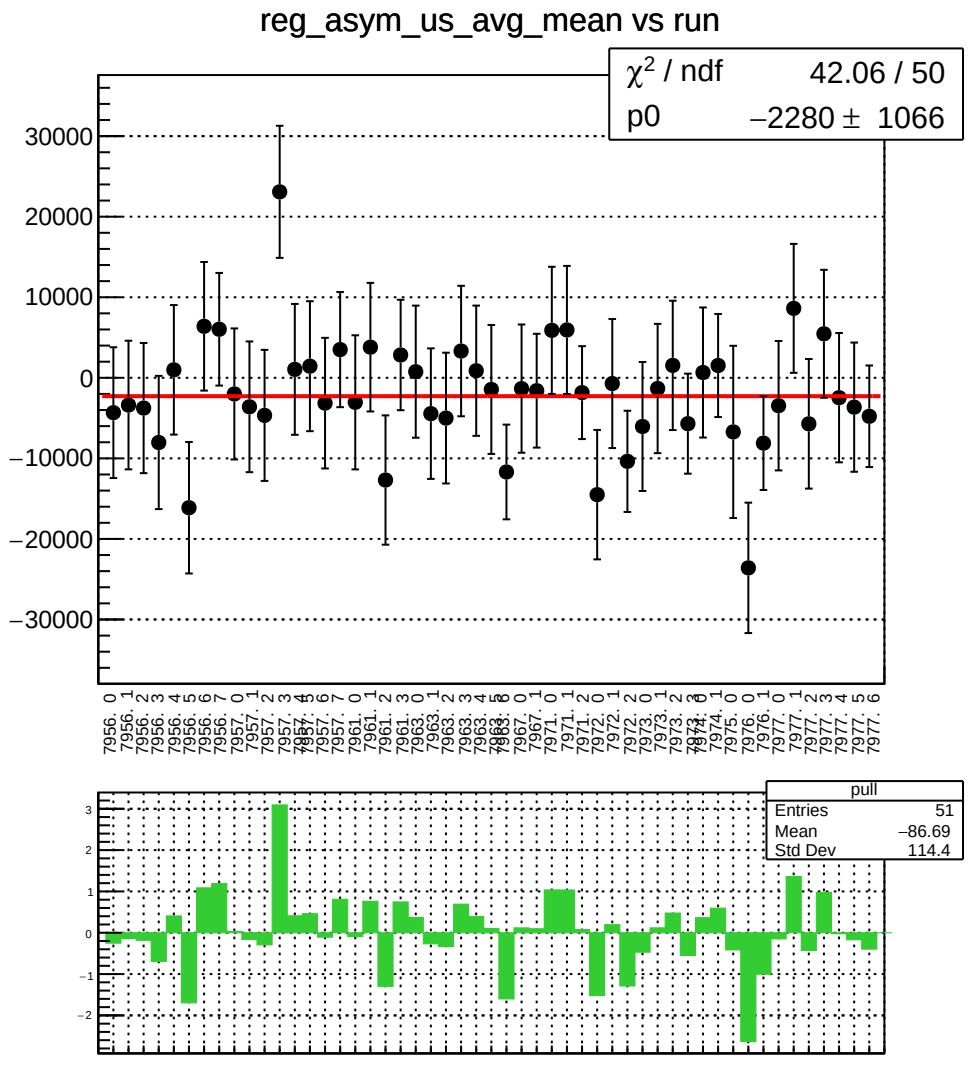
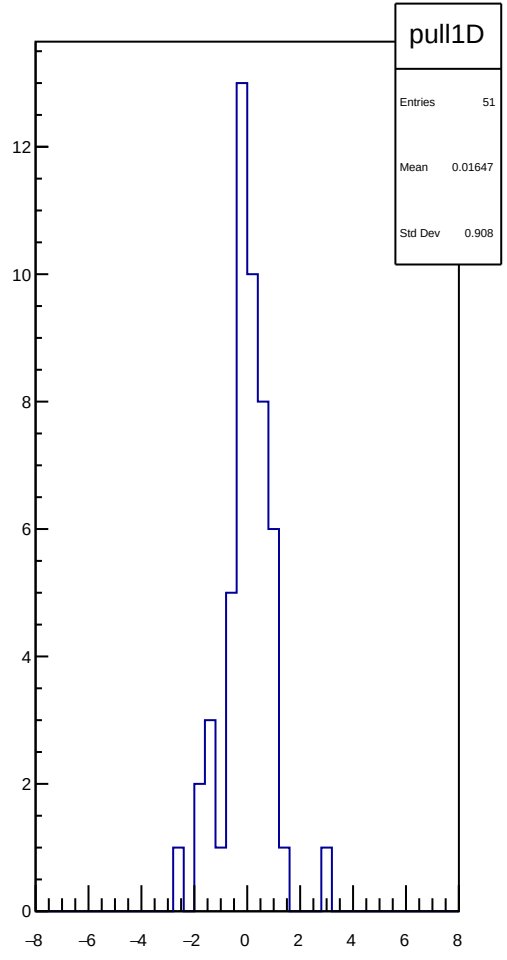
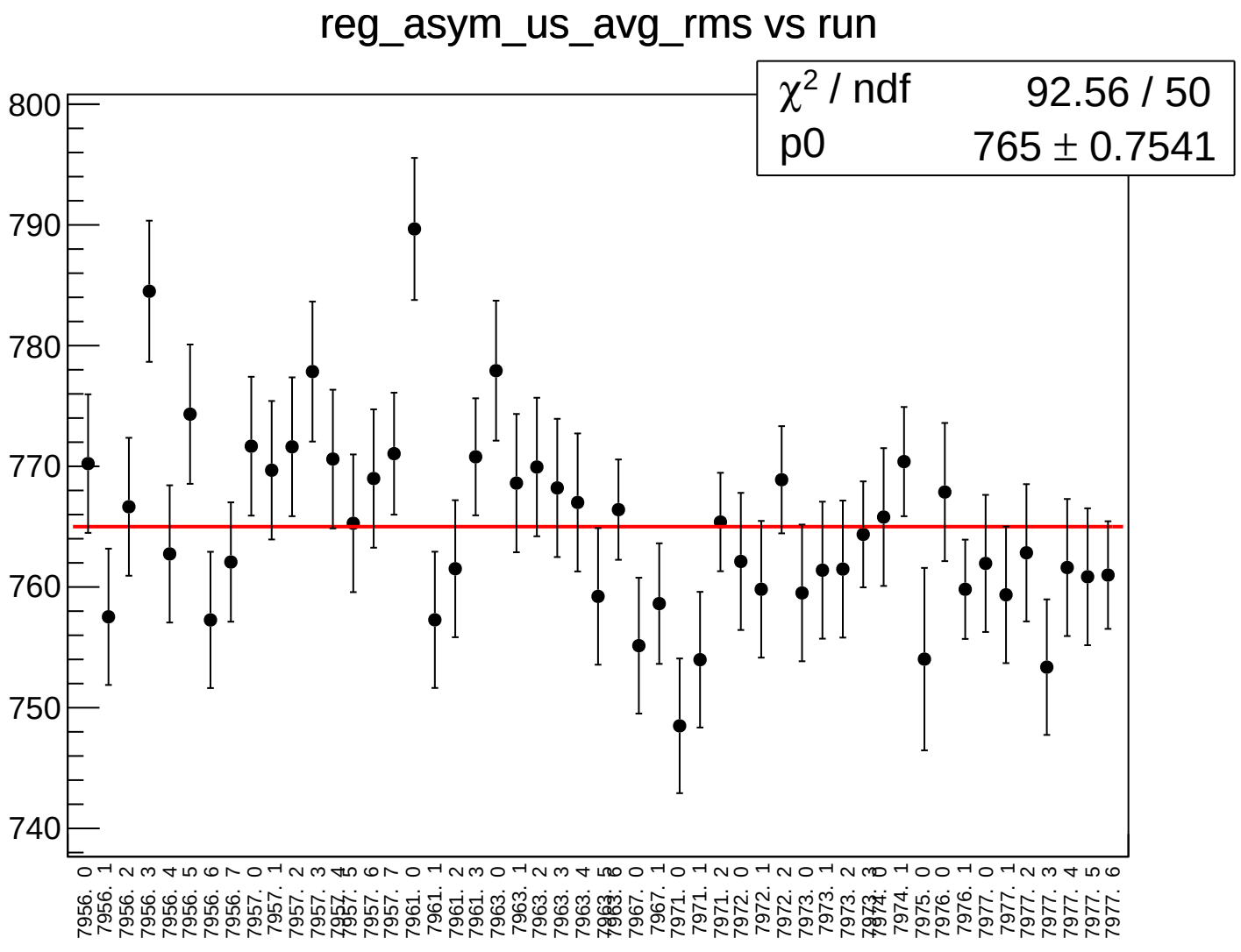

reg_asym_us_avg_mean vs run
χ² / ndf 42.06 / 50
p0 −2280 ± 1066
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −86.69
Std Dev 114.4
3
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.01647
Std Dev 0.908
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ^2 / ndf 92.56 / 50
p0 765 ± 0.7541
800
790
780
770
760
750
740
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
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7977. 3
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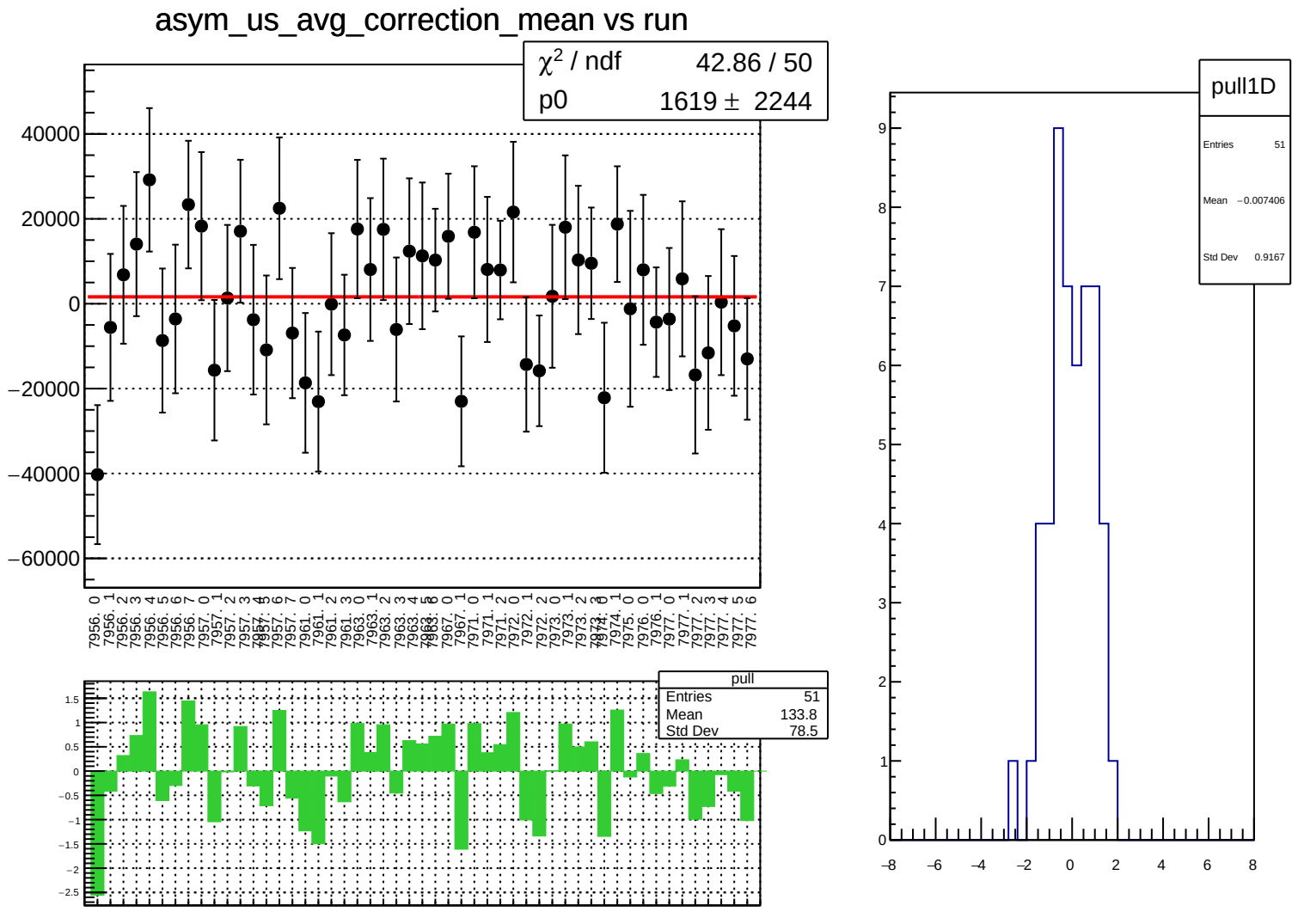
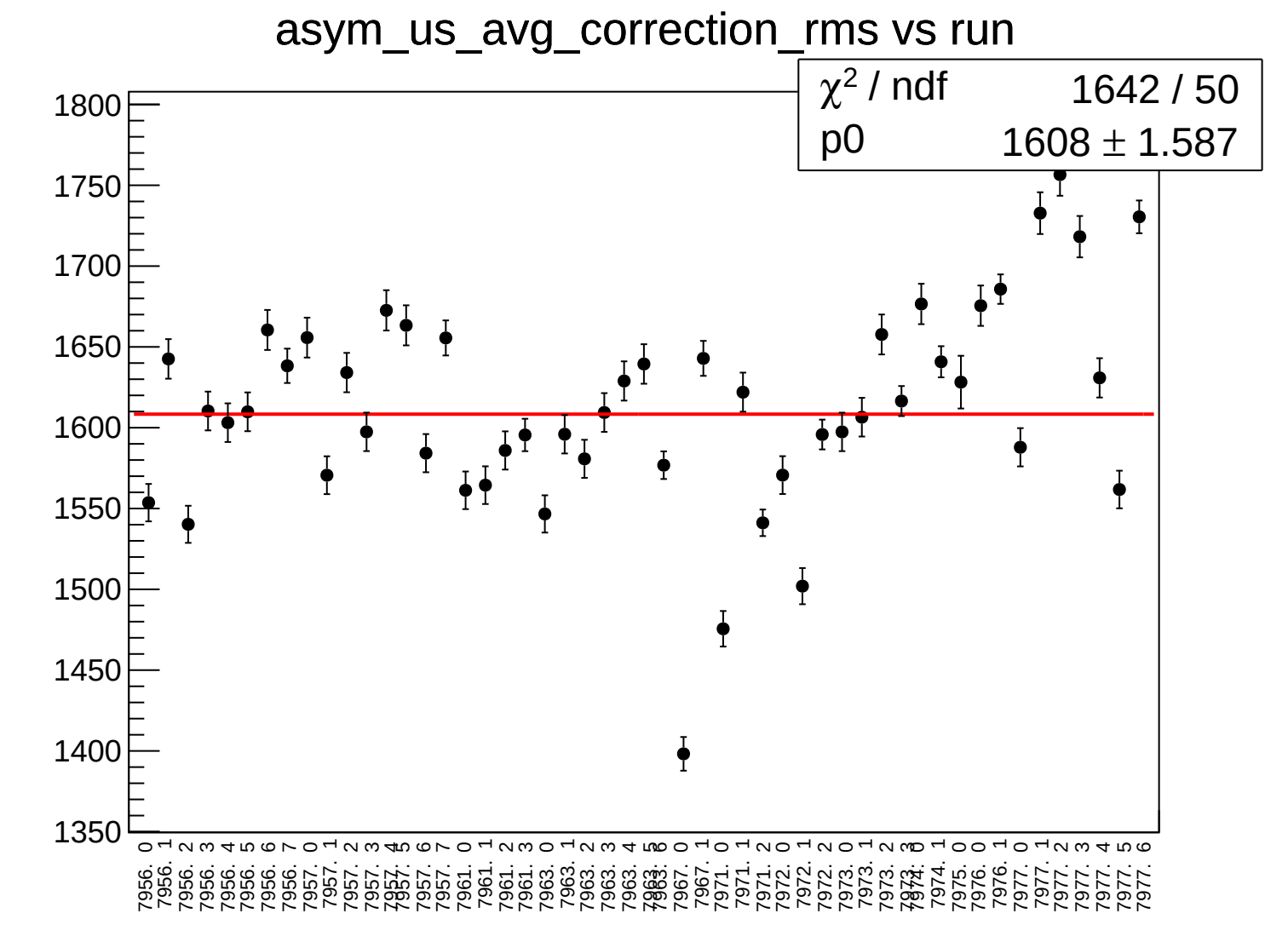
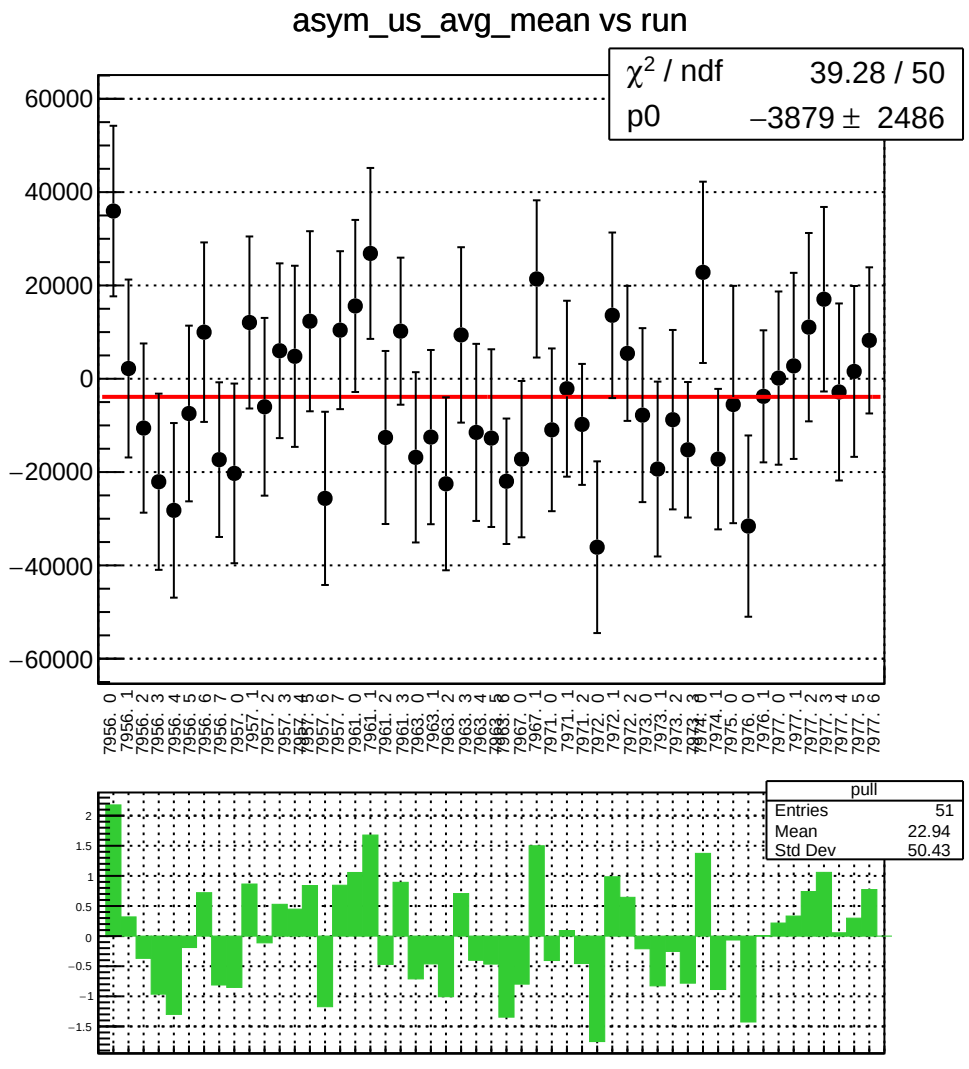
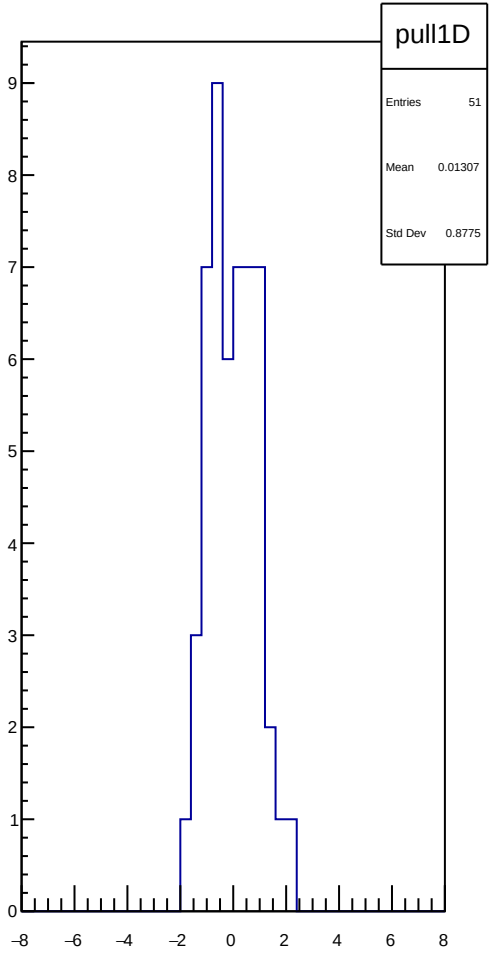
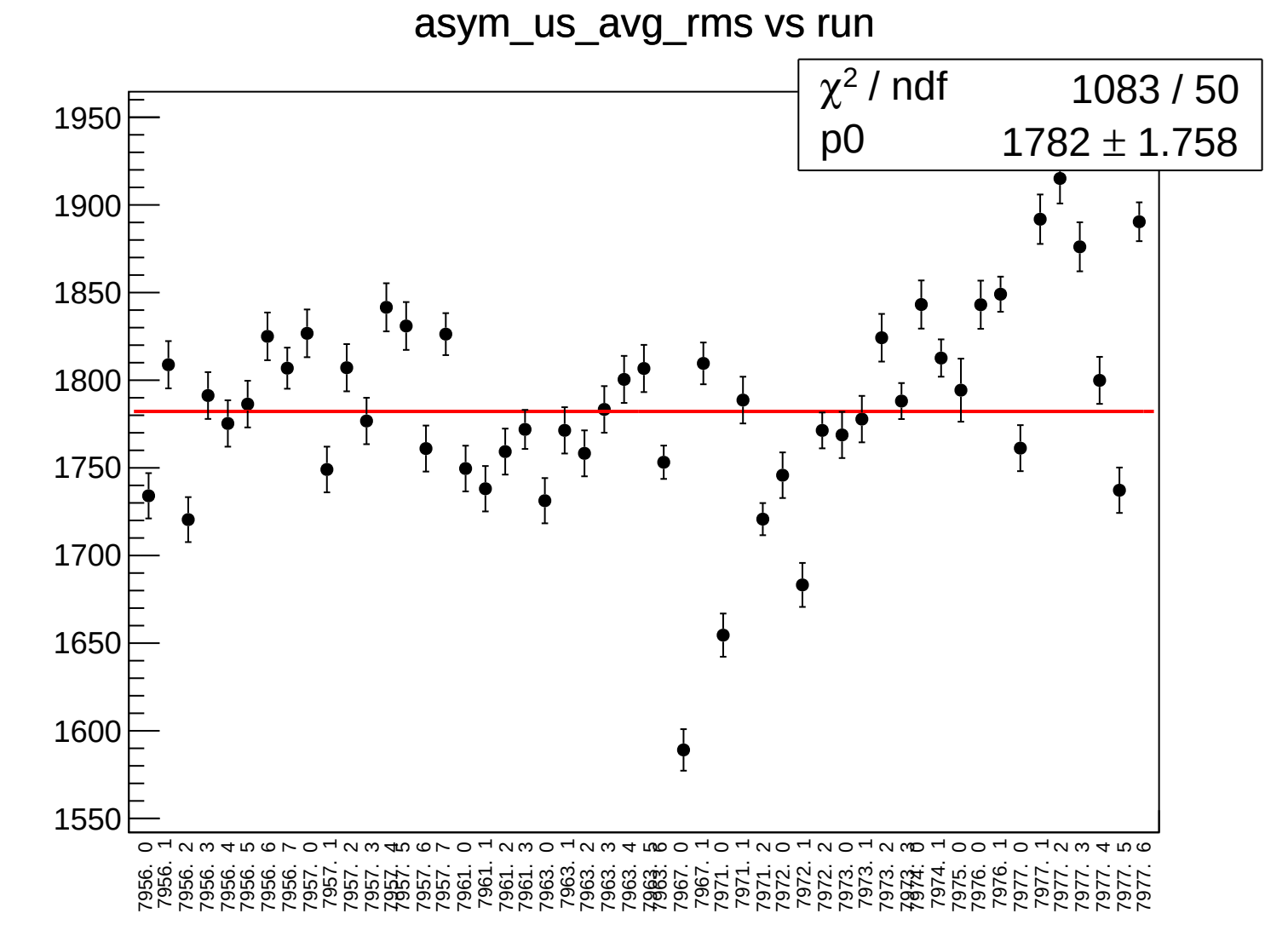
7977. 5
7977. 6


asym_us_avg_correction_mean vs run
χ² / ndf 42.86 / 50
p0 1619 ± 2244
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 133.8
Std Dev 78.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 51
Mean −0.007406
Std Dev 0.9167
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
χ^2 / ndf 1642 / 50
p0 1608 ± 1.587
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_us_avg_mean vs run
χ² / ndf 39.28 / 50
p0 −3879 ± 2486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 22.94
Std Dev 50.43
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.01307
Std Dev 0.8775
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
χ^2 / ndf 1083 / 50
p0 1782 ± 1.758
1950
1900
1850
1800
1750
1700
1650
1600
1550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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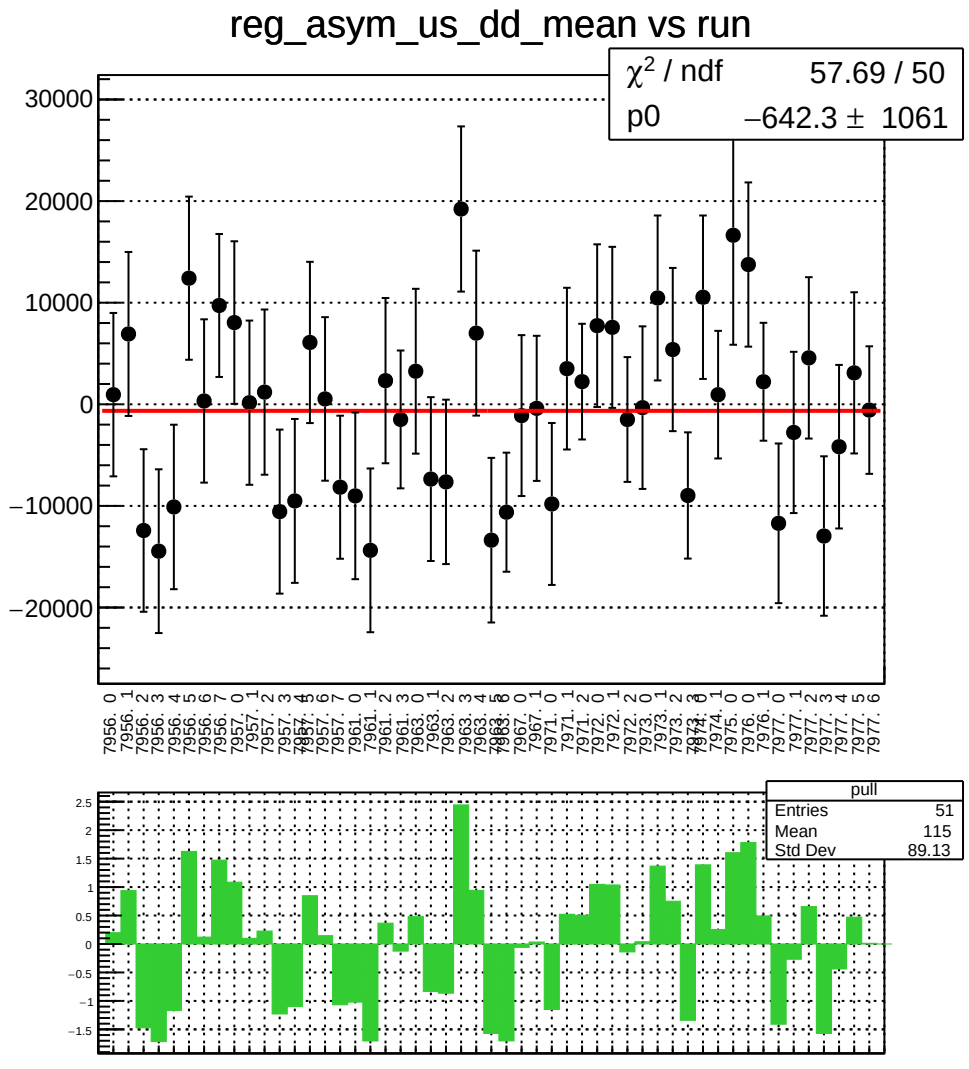
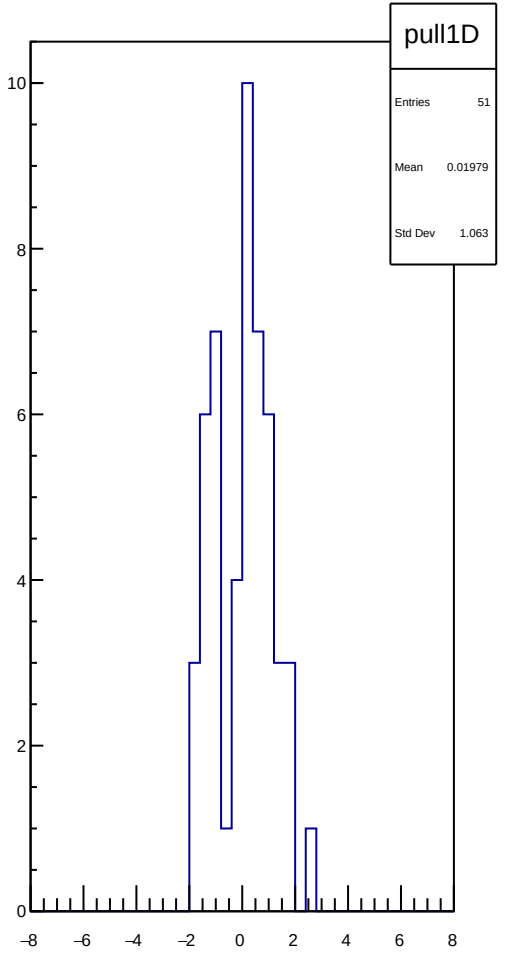
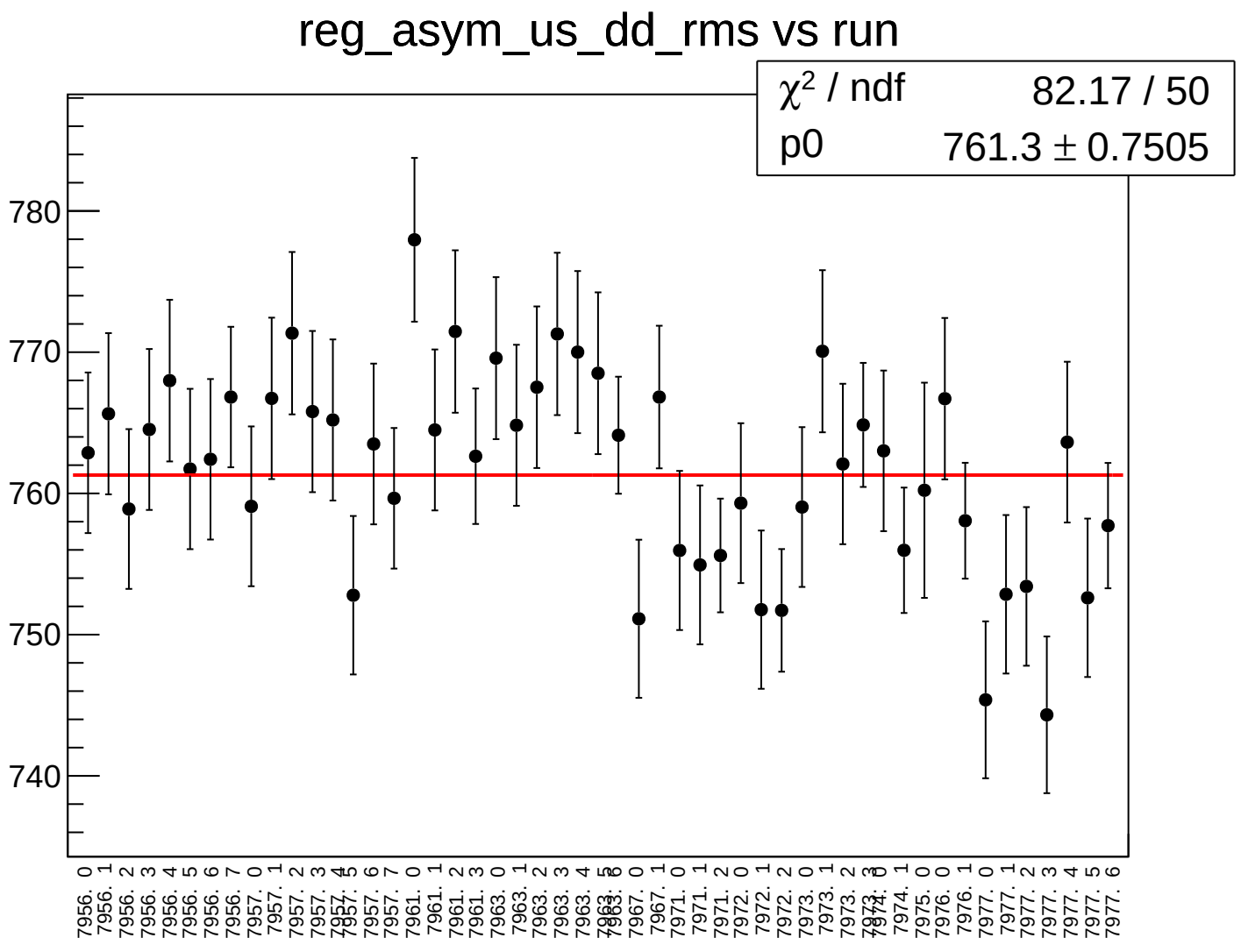
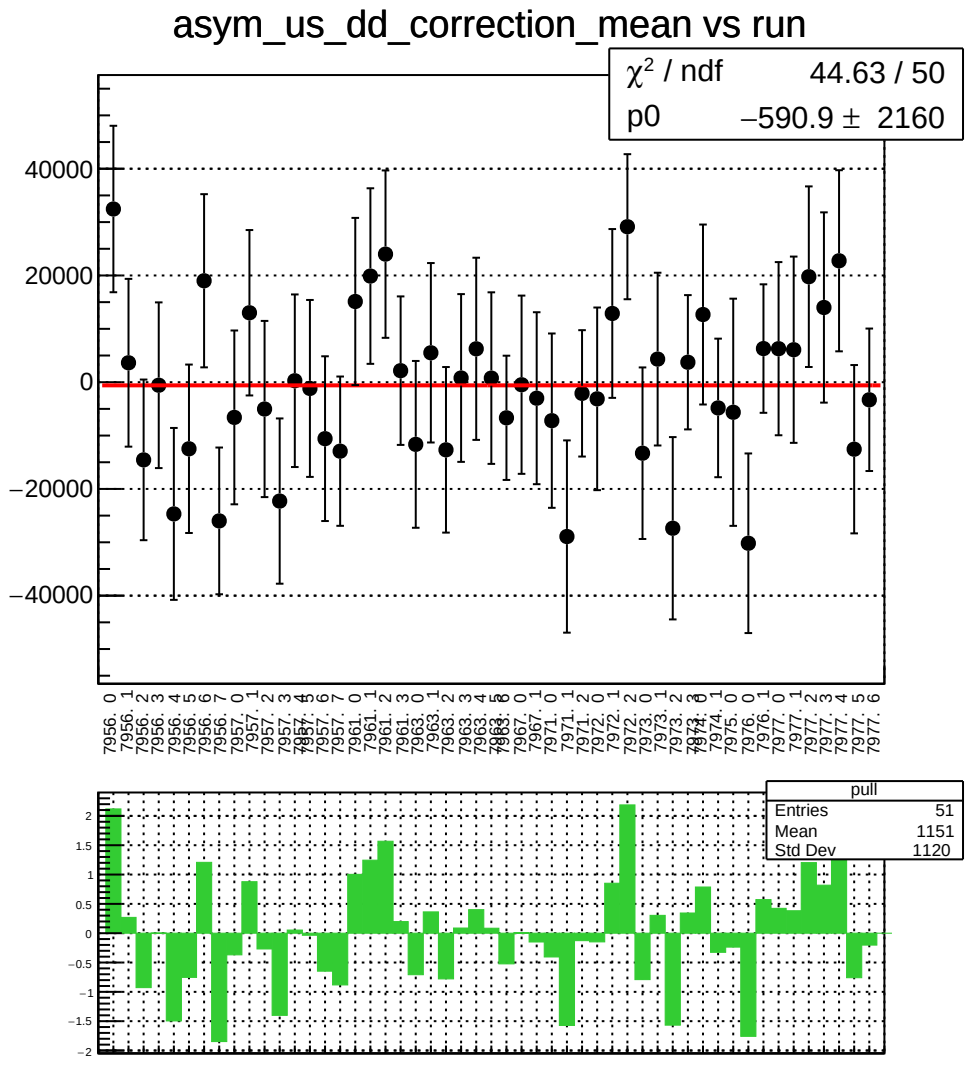
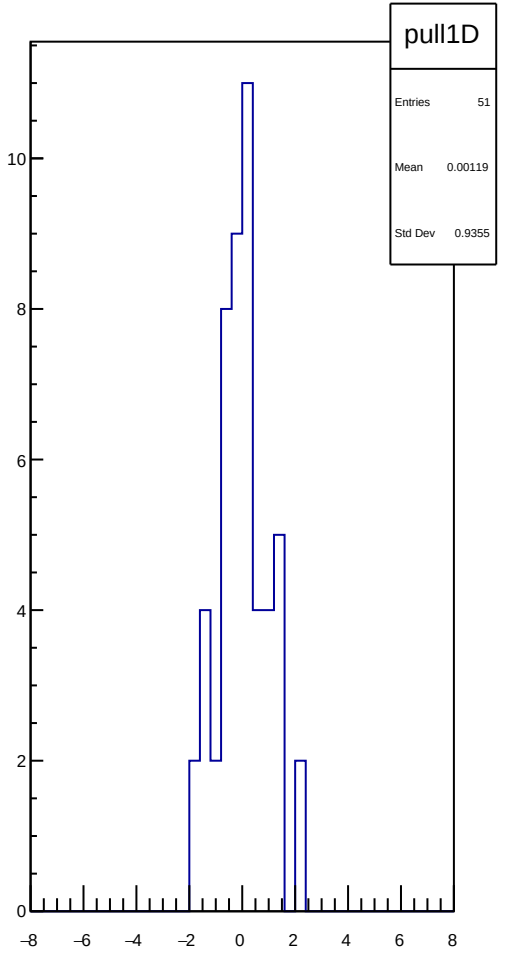
7977. 5
7977. 6

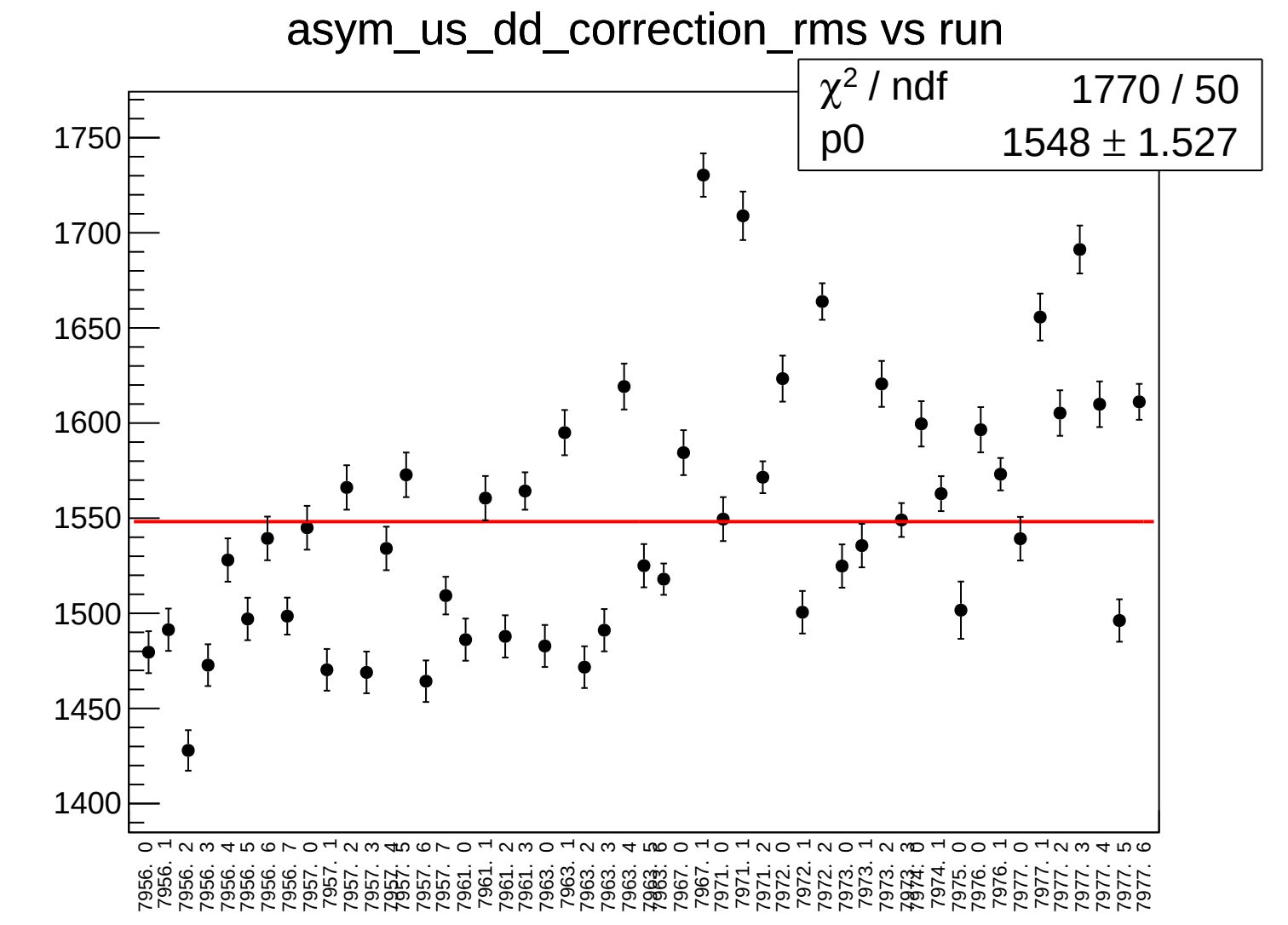

reg_asym_us_dd_mean vs run
χ² / ndf 57.69 / 50
p0 −642.3 ± 1061
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 115
Std Dev 89.13
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

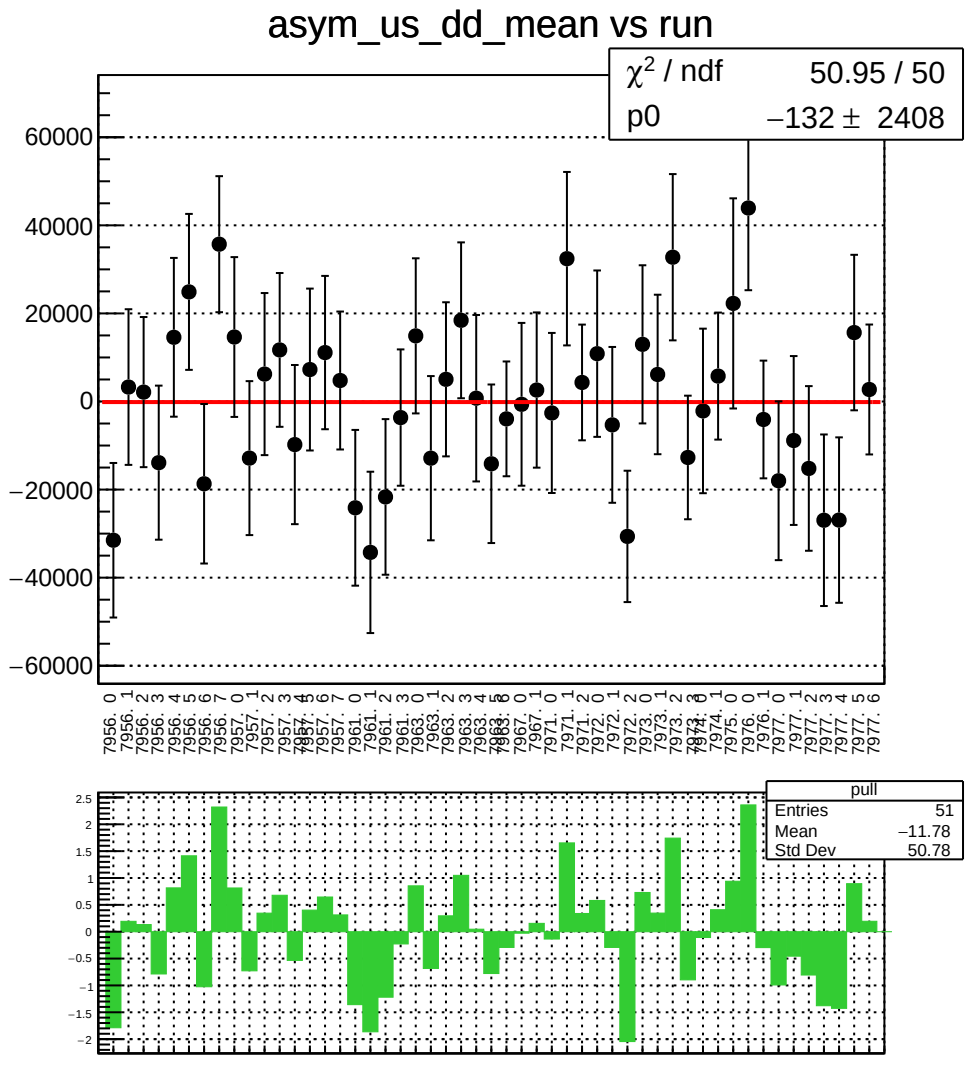

pull1D
Entries 51
Mean 0.01979
Std Dev 1.063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

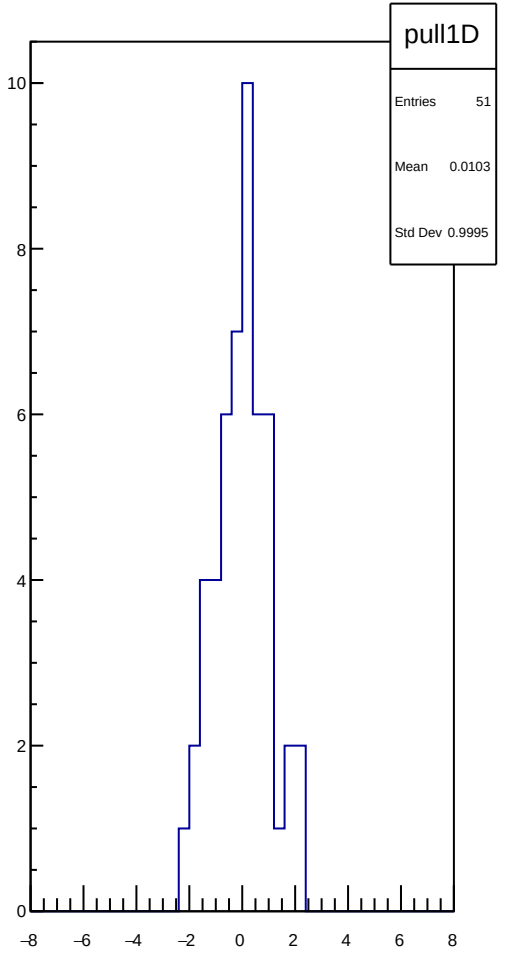

reg_asym_us_dd_rms vs run
χ² / ndf 82.17 / 50
p0 761.3 ± 0.7505
780
770
760
750
740
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

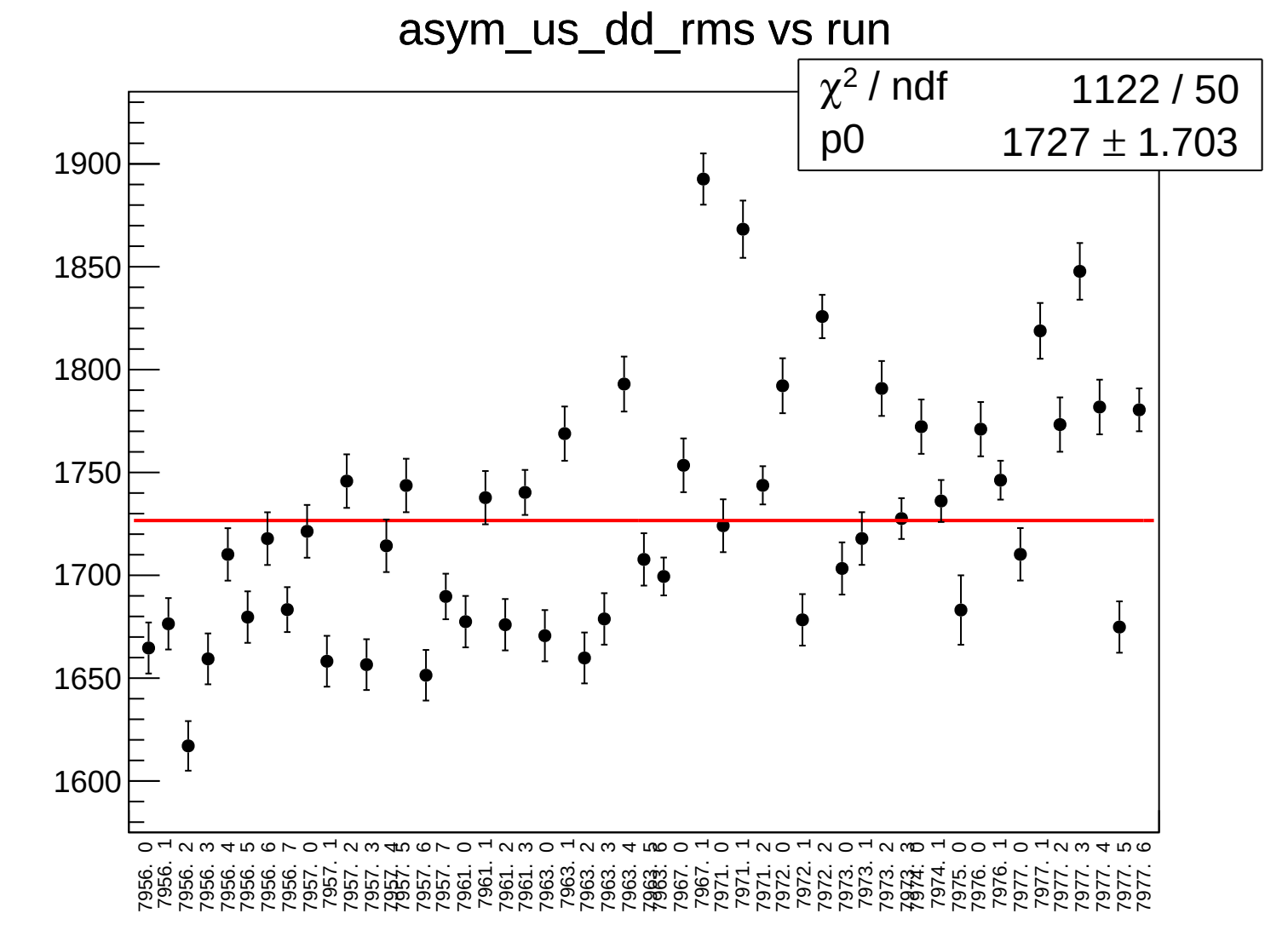

asym_us_dd_correction_mean vs run
χ² / ndf 44.63 / 50
p0 −590.9 ± 2160
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 1151
Std Dev 1120
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

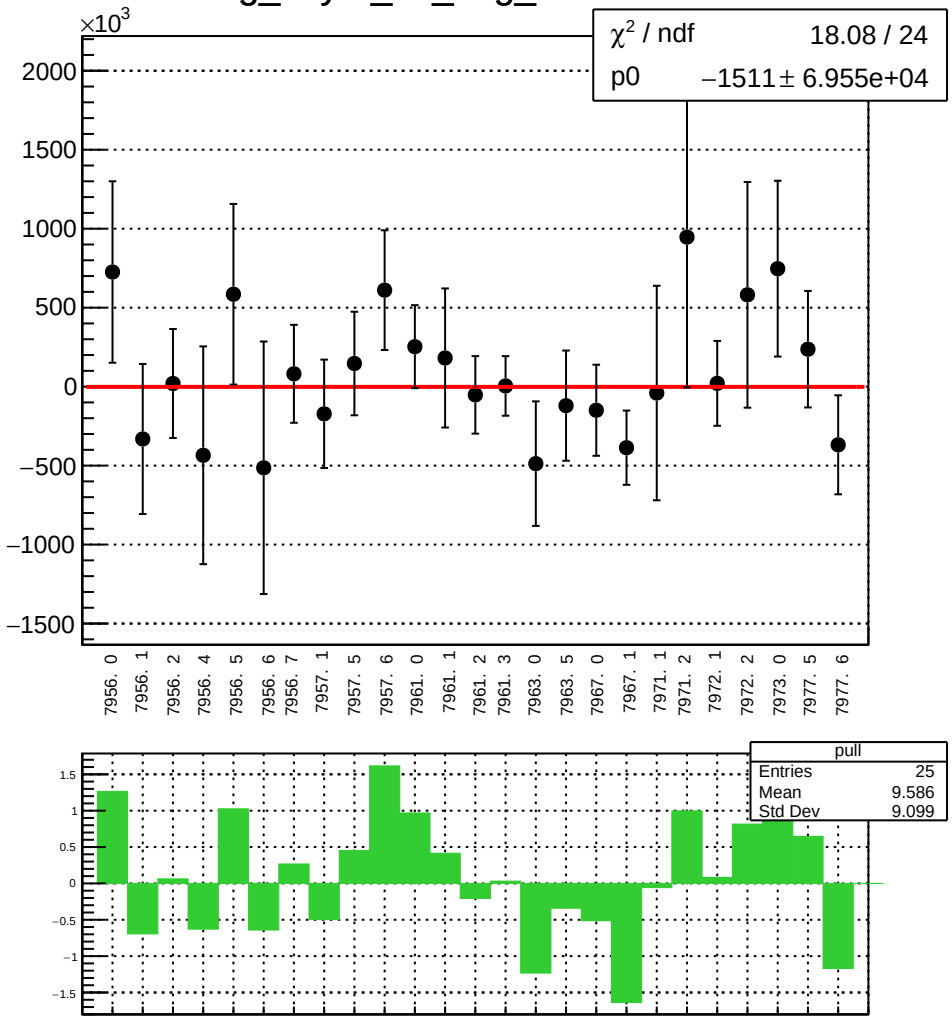

pull1D
Entries 51
Mean 0.00119
Std Dev 0.9355
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

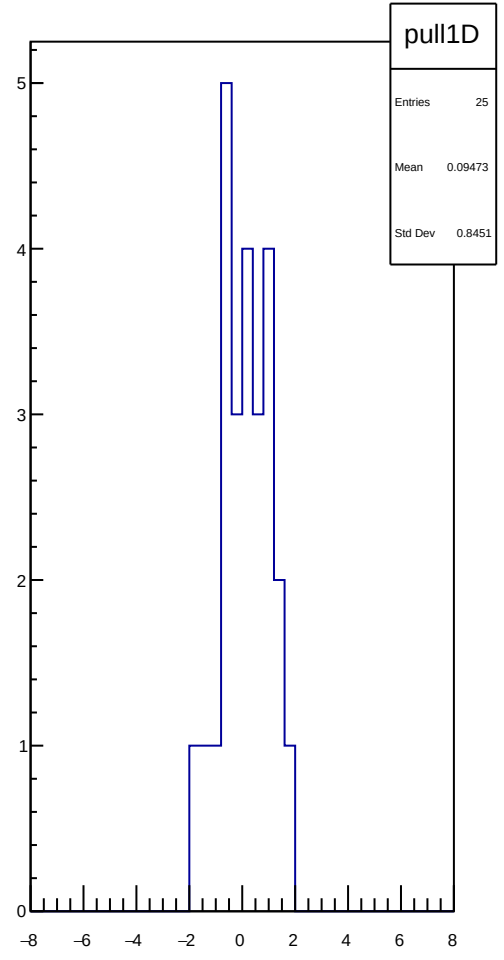

asym_us_dd_correction_rms vs run
χ² / ndf 1770 / 50
p0 1548 ± 1.527
1750
1700
1650
1600
1550
1500
1450
1400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

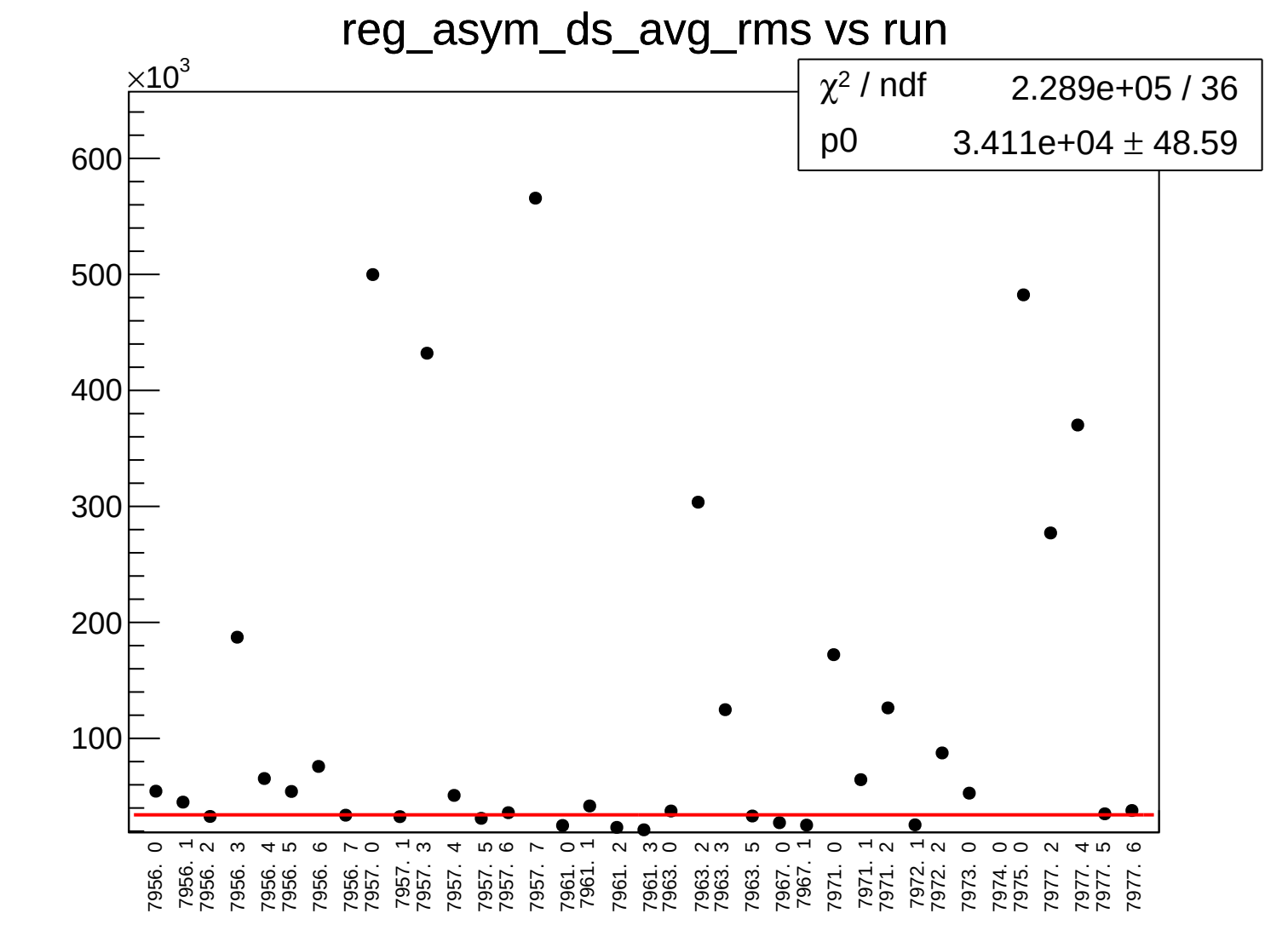

asym_us_dd_mean vs run
χ² / ndf 50.95 / 50
p0 −132 ± 2408
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −11.78
Std Dev 50.78
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

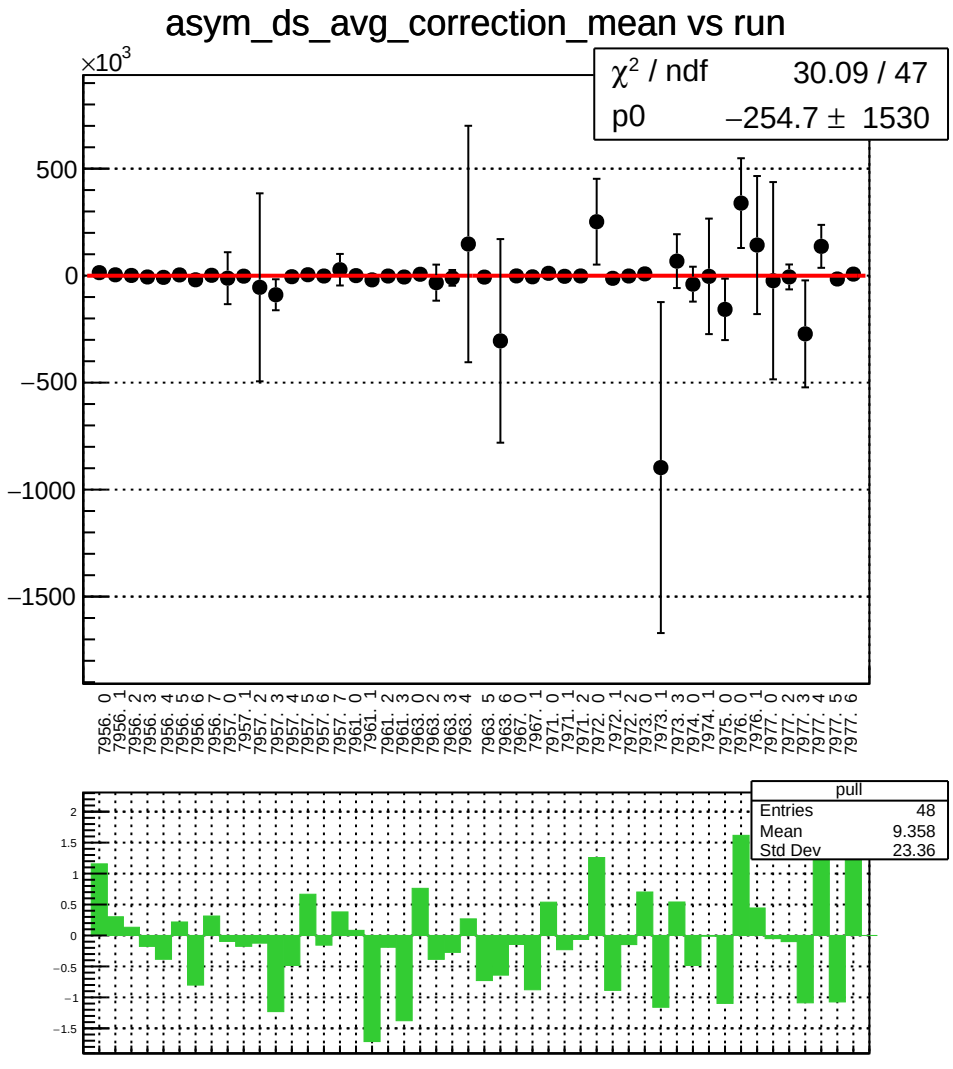

pull1D
Entries 51
Mean 0.0103
Std Dev 0.9995
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

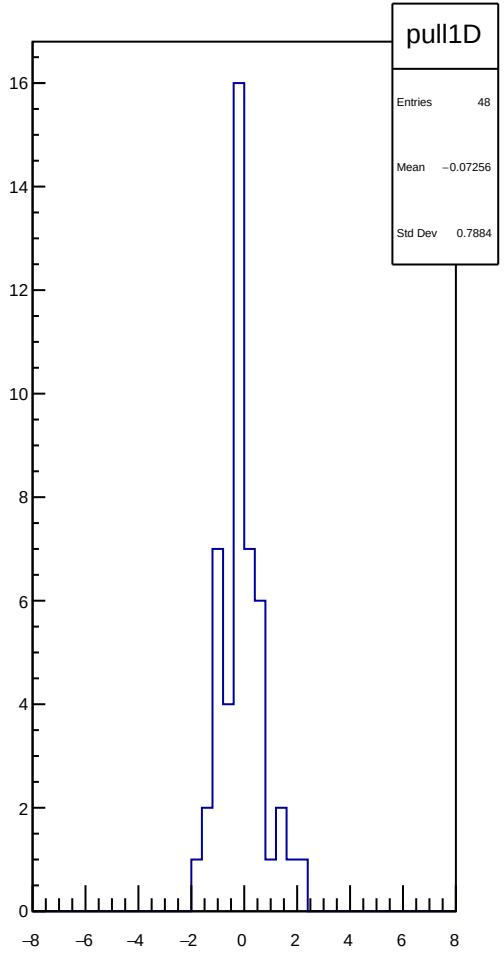

asym_us_dd_rms vs run
χ² / ndf 1122 / 50
p0 1727 ± 1.703
1900
1850
1800
1750
1700
1650
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

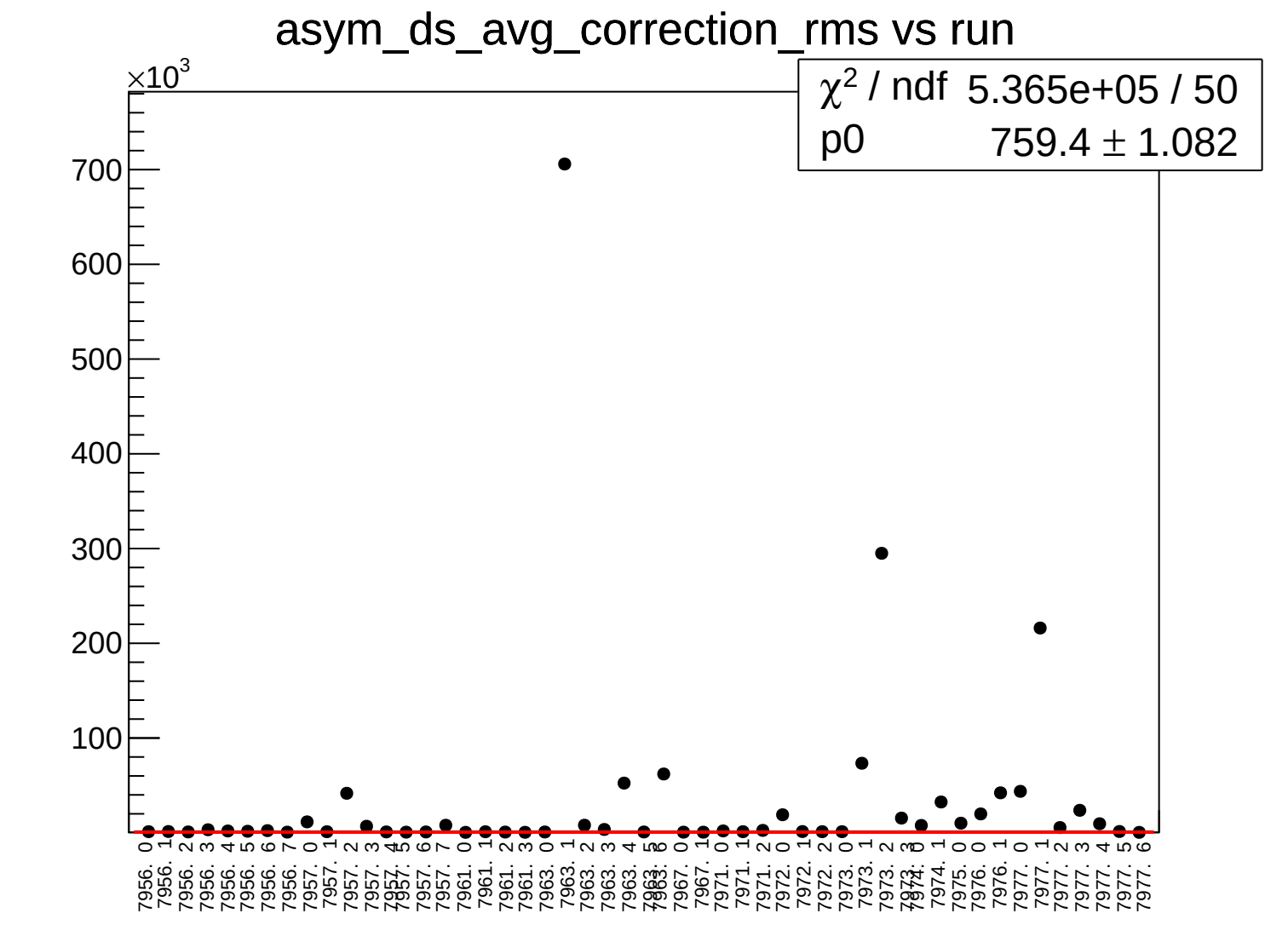

reg_asym_ds_avg_mean vs run
×10^3
χ² / ndf 18.08 / 24
p0 −1511 ± 6.955e+04
2000
1500
1000
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.586
Std Dev 9.099
1.5
1
0.5
0
−0.5
−1
−1.5

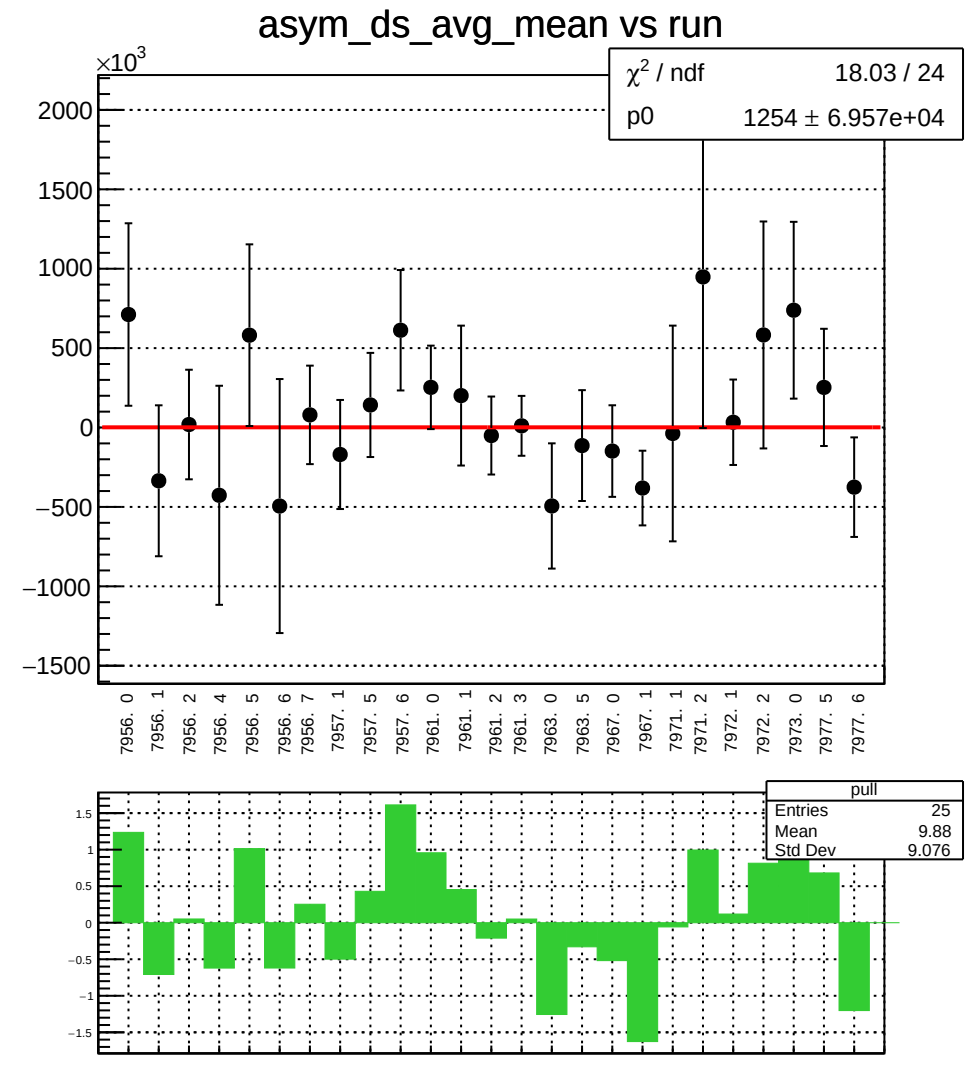

pull1D
Entries 25
Mean 0.09473
Std Dev 0.8451
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

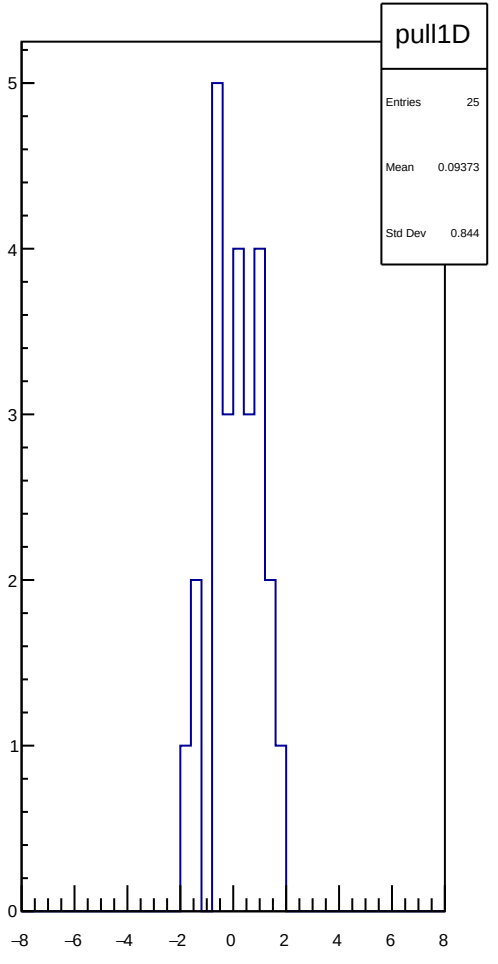

reg_asym_ds_avg_rms vs run
×10^3
χ² / ndf 2.289e+05 / 36
p0 3.411e+04 ± 48.59
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

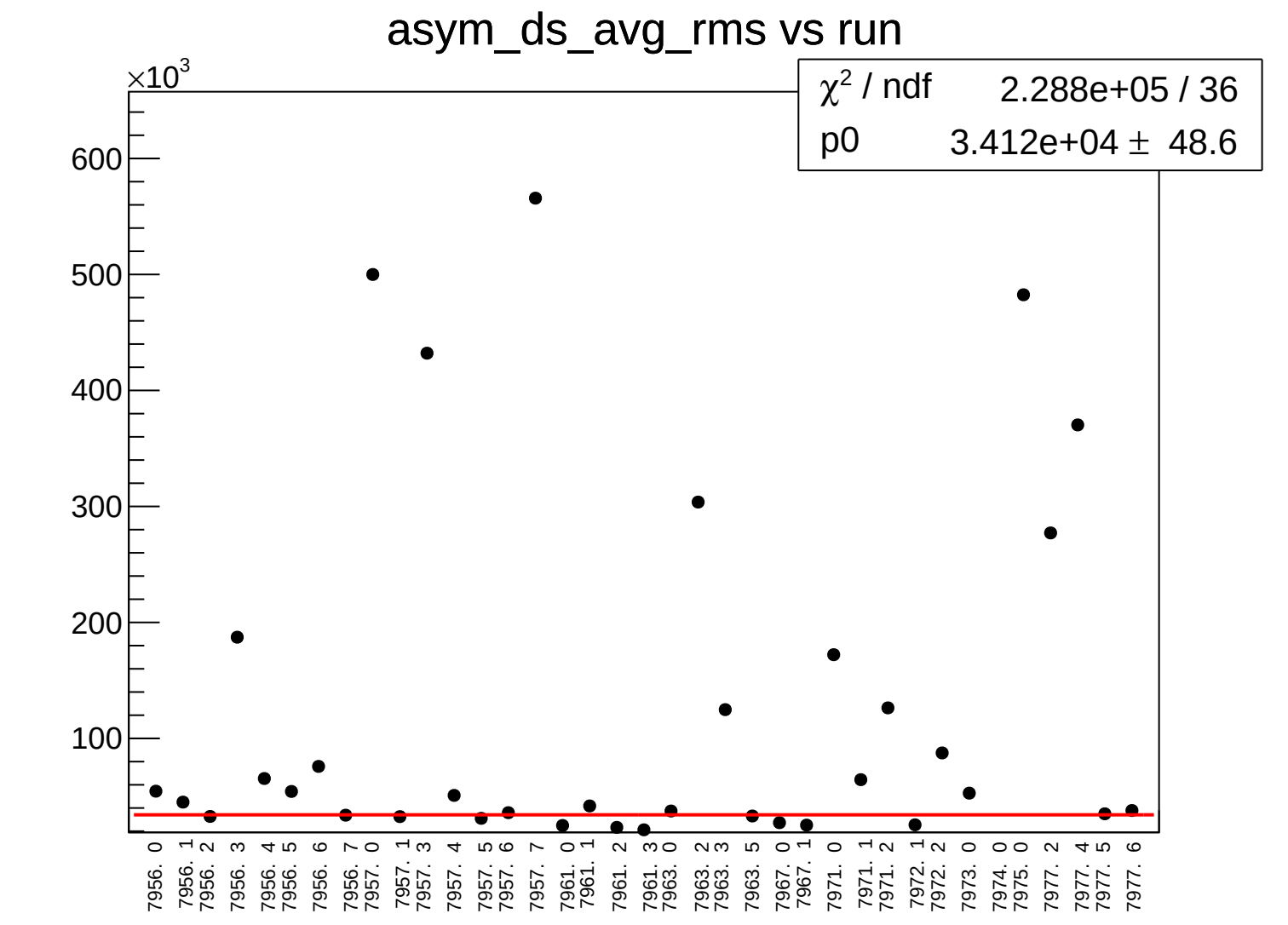

asym_ds_avg_correction_mean vs run
×10^3
χ² / ndf 30.09 / 47
p0 −254.7 ± 1530
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7963. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 48
Mean 9.358
Std Dev 23.36
2
1.5
1
0.5
0
−0.5
−1
−1.5

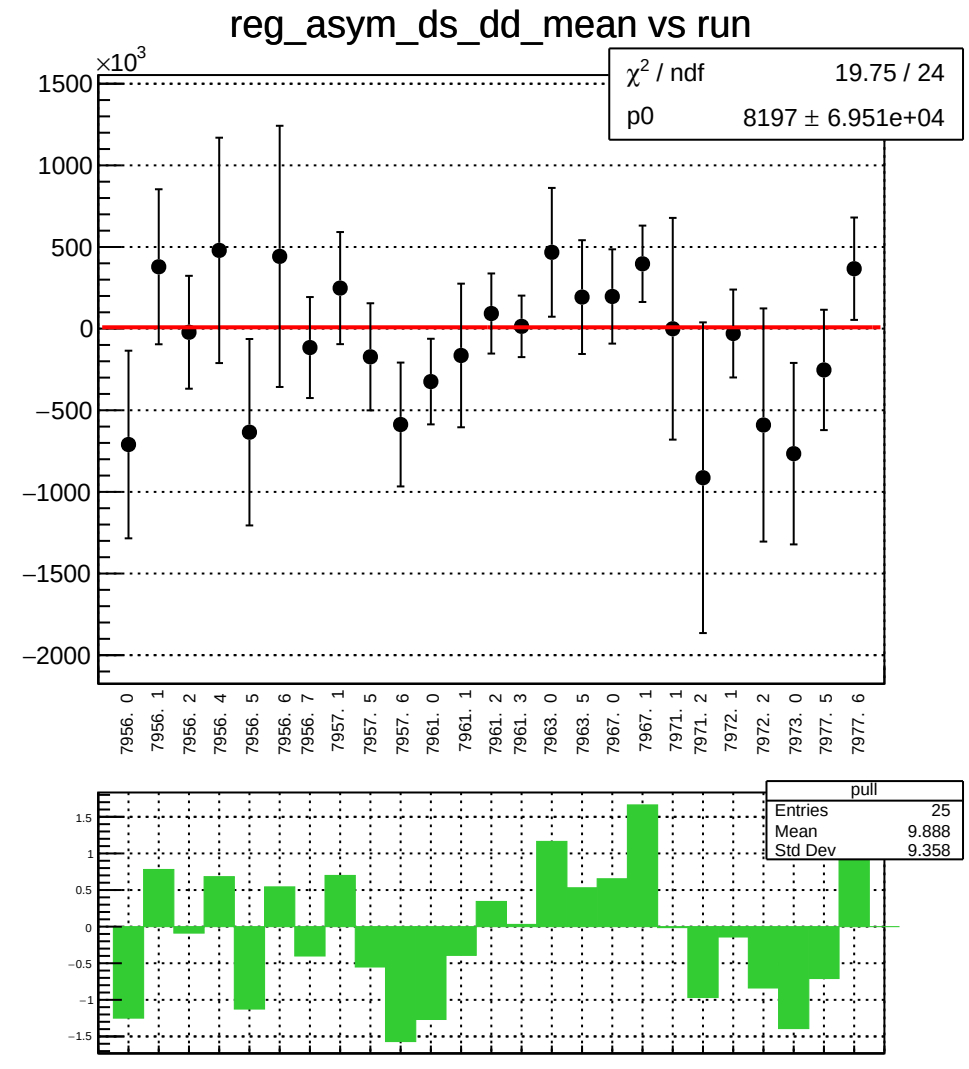

pull1D
Entries 48
Mean −0.07256
Std Dev 0.7884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

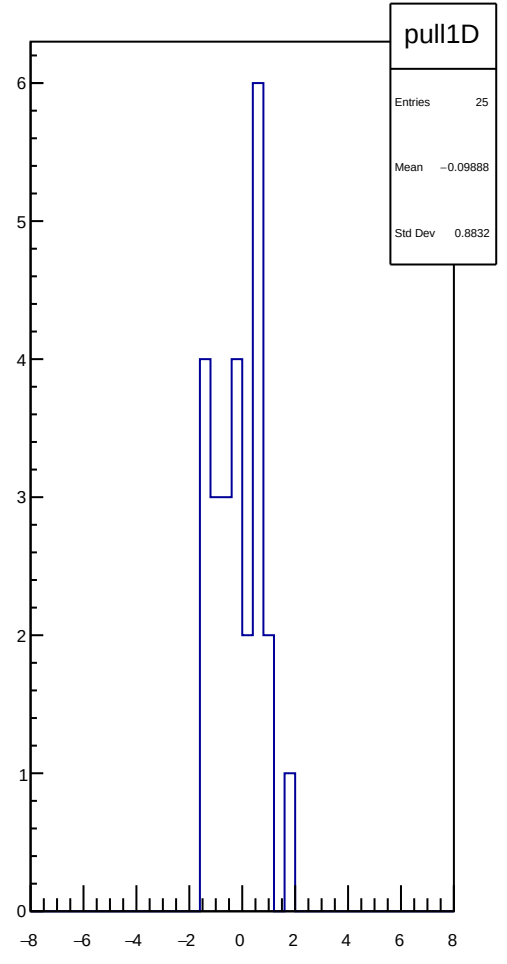

asym_ds_avg_correction_rms vs run
×10^3
χ^2 / ndf 5.365e+05 / 50
p0 759.4 ± 1.082
700
600
500
400
300
200
100

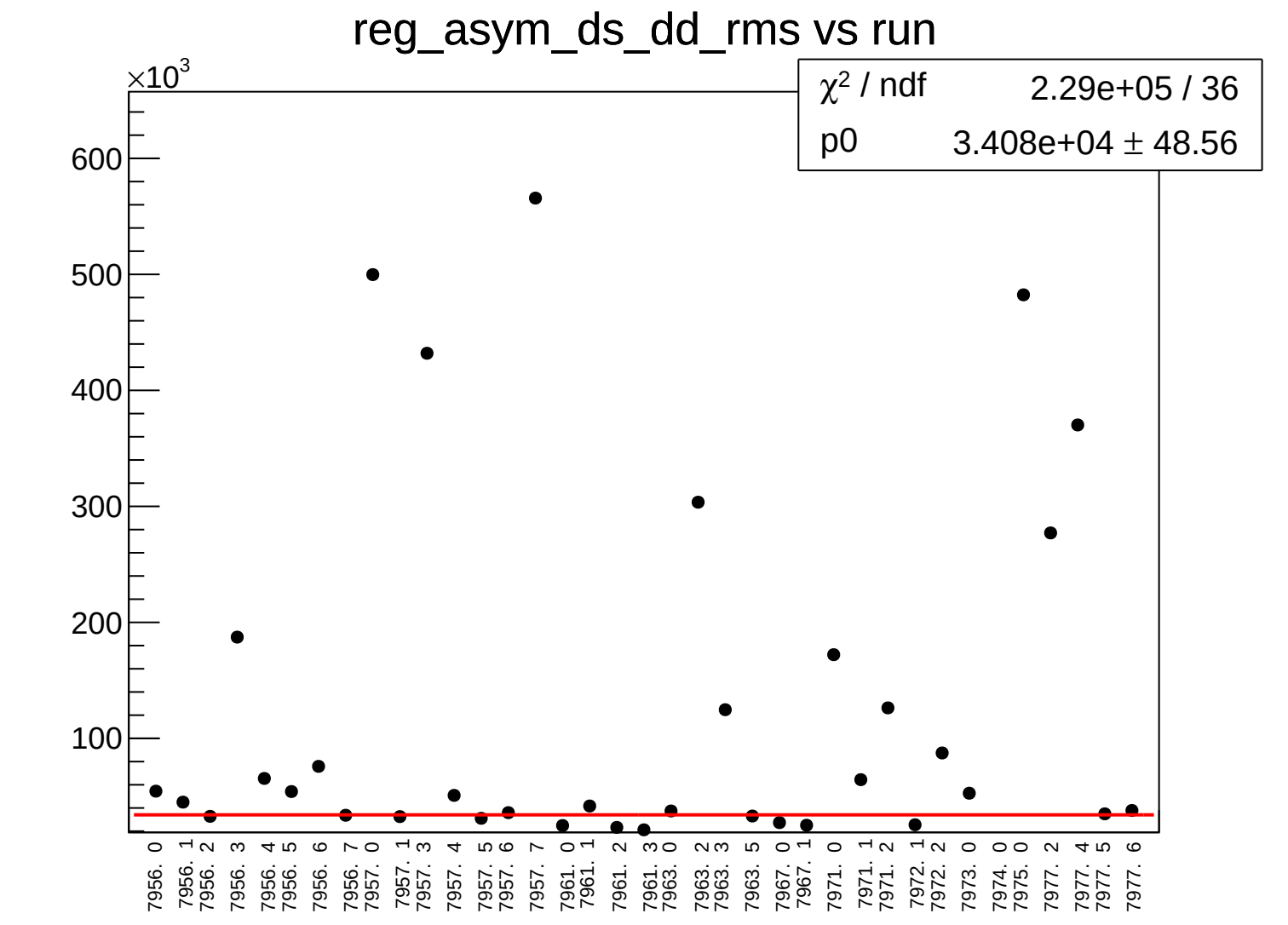

asym_ds_avg_mean vs run
×10^3
χ² / ndf 18.03 / 24
p0 1254 ± 6.957e+04
2000
1500
1000
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.88
Std Dev 9.076
1.5
1
0.5
0
−0.5
−1
−1.5

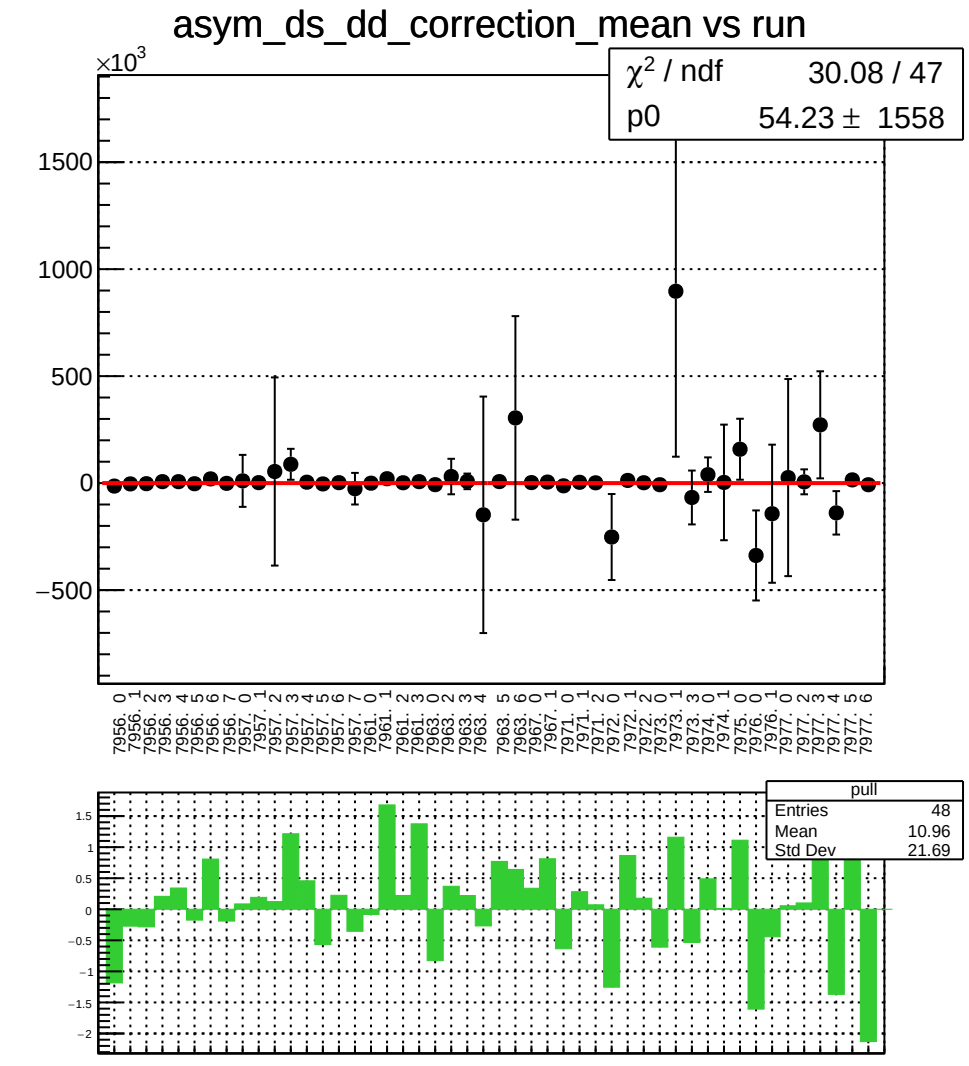

pull1D
Entries 25
Mean 0.09373
Std Dev 0.844
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

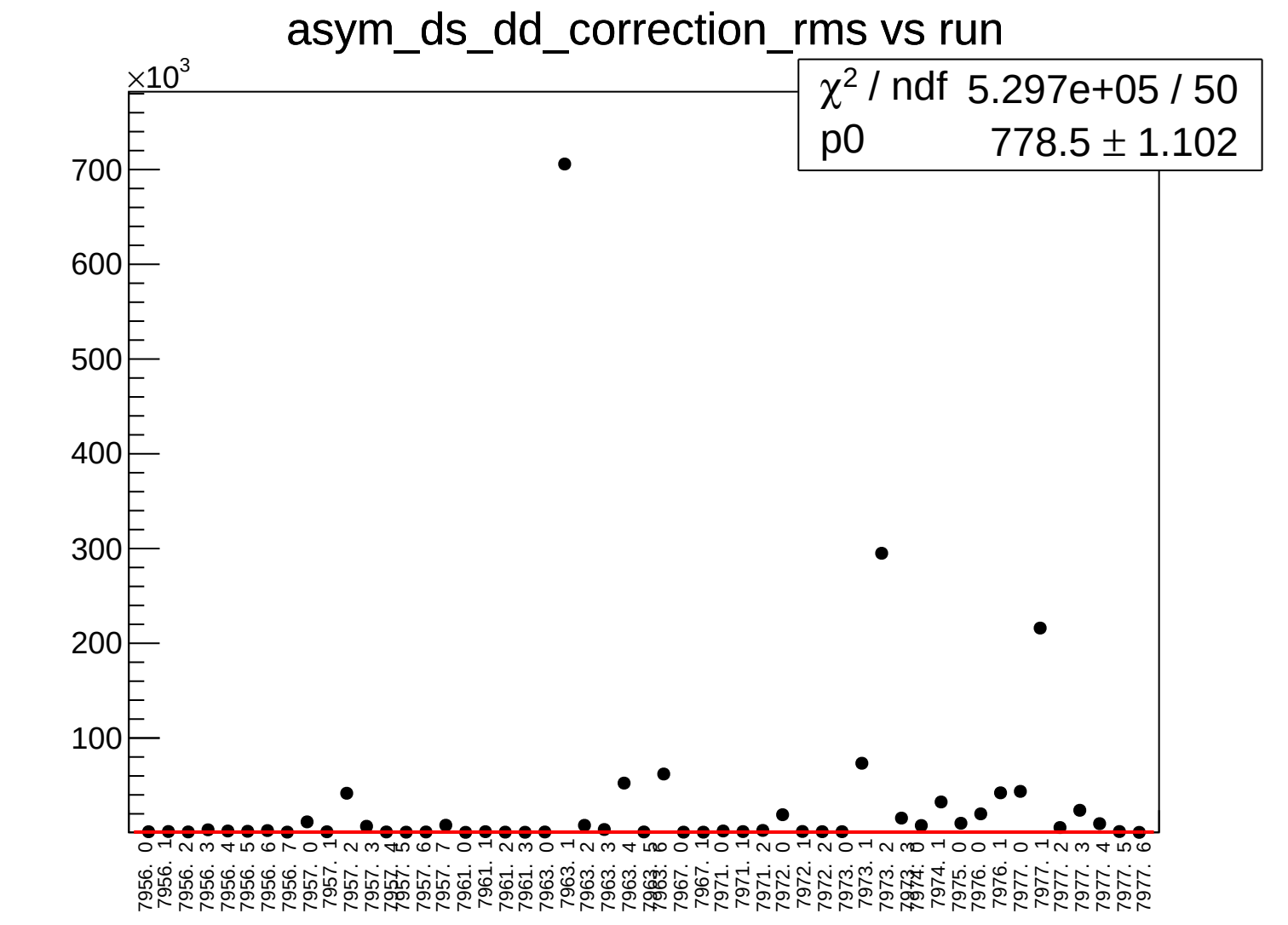

asym_ds_avg_rms vs run
×10^3
χ^2 / ndf 2.288e+05 / 36
p0 3.412e+04 ± 48.6
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

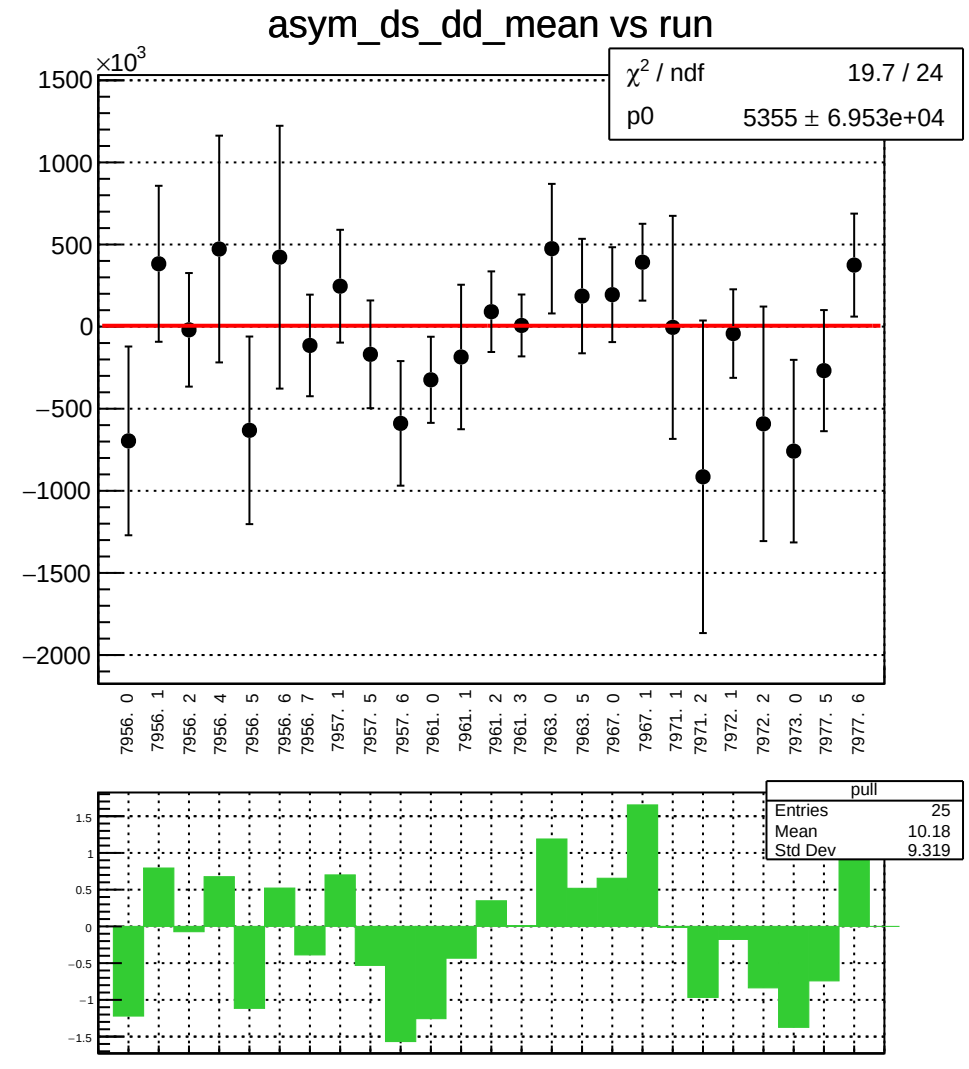

reg_asym_ds_dd_mean vs run
×10^3
χ^2 / ndf 19.75 / 24
p0 8197 ± 6.951e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.888
Std Dev 9.358
1.5
1
0.5
0
−0.5
−1
−1.5

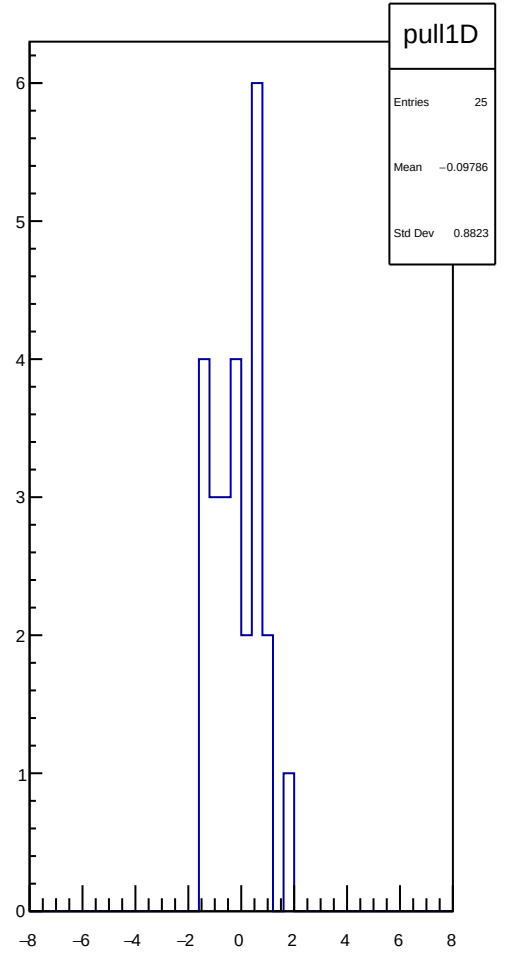

pull1D
Entries 25
Mean −0.09888
Std Dev 0.8832
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

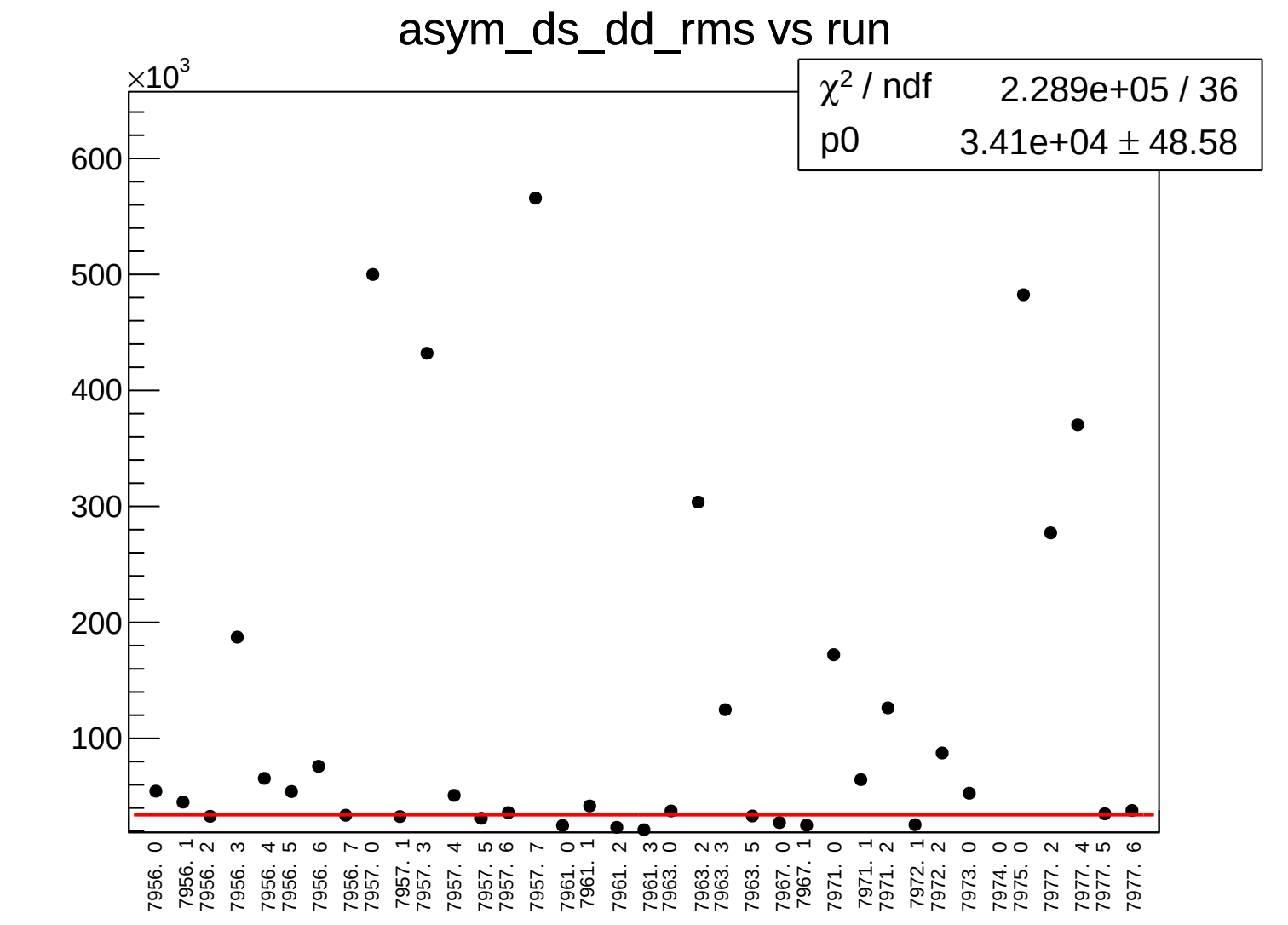

reg_asym_ds_dd_rms vs run
×10^3
χ² / ndf 2.29e+05 / 36
p0 3.408e+04 ± 48.56
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

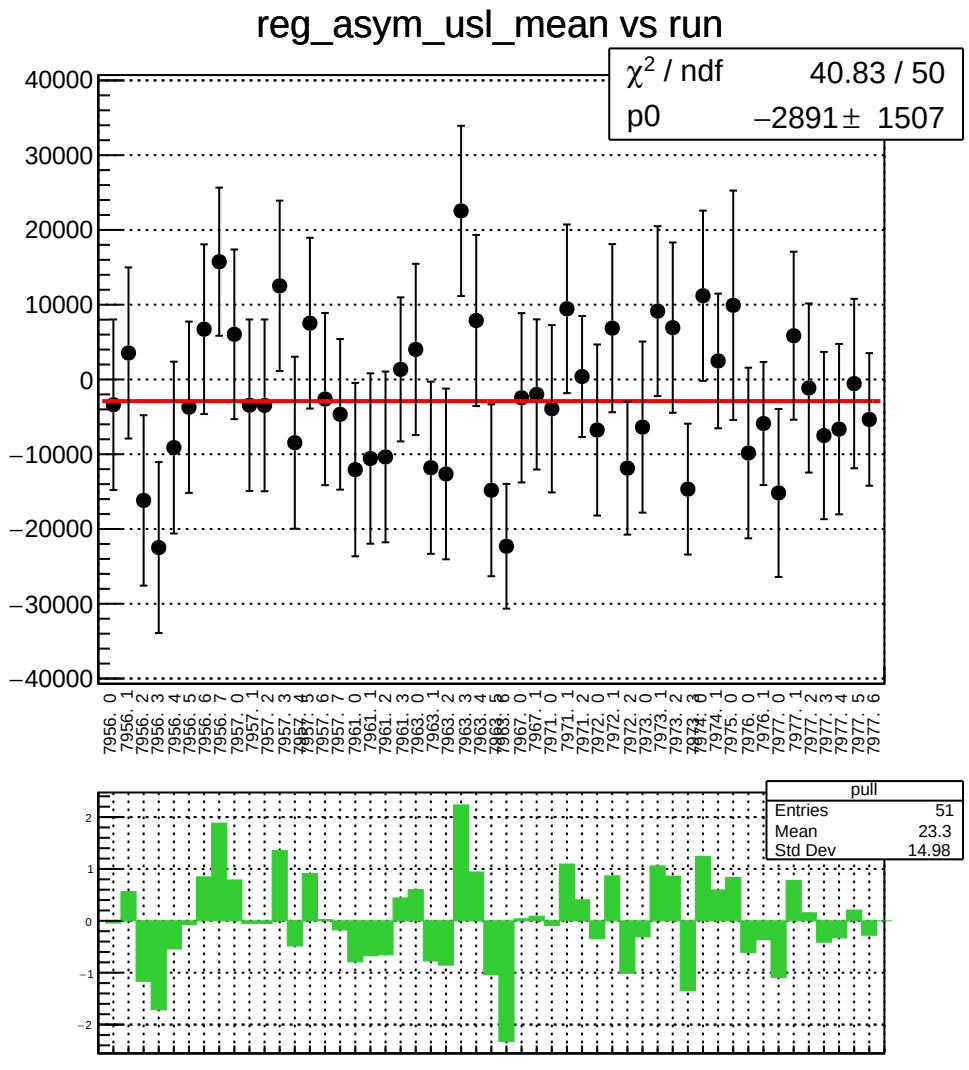

asym_ds_dd_correction_mean vs run
×10^3
χ² / ndf 30.08 / 47
p0 54.23 ± 1558
1500
1000
500
0
−500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 48
Mean 10.96
Std Dev 21.69
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 48
Mean 0.0792
Std Dev 0.7876
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

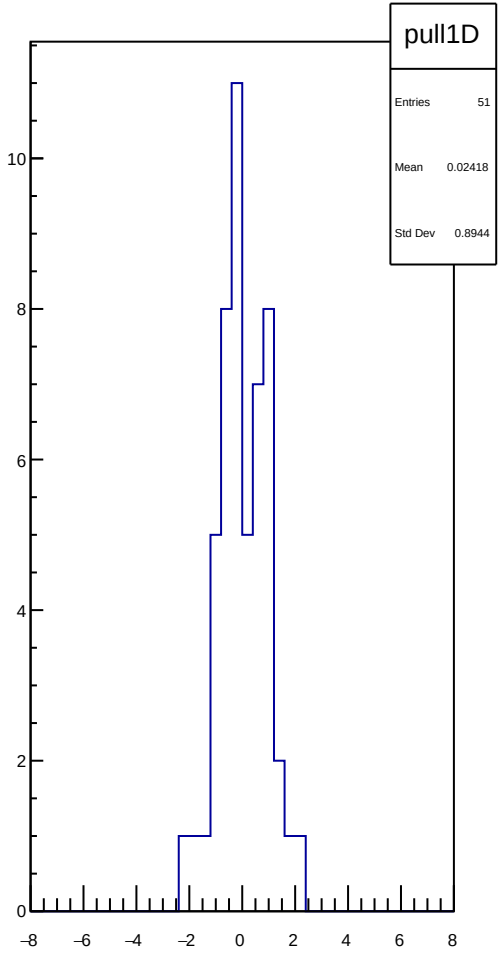

asym_ds_dd_correction_rms vs run
×10^3
χ² / ndf 5.297e+05 / 50
p0 778.5 ± 1.102
700
600
500
400
300
200
100

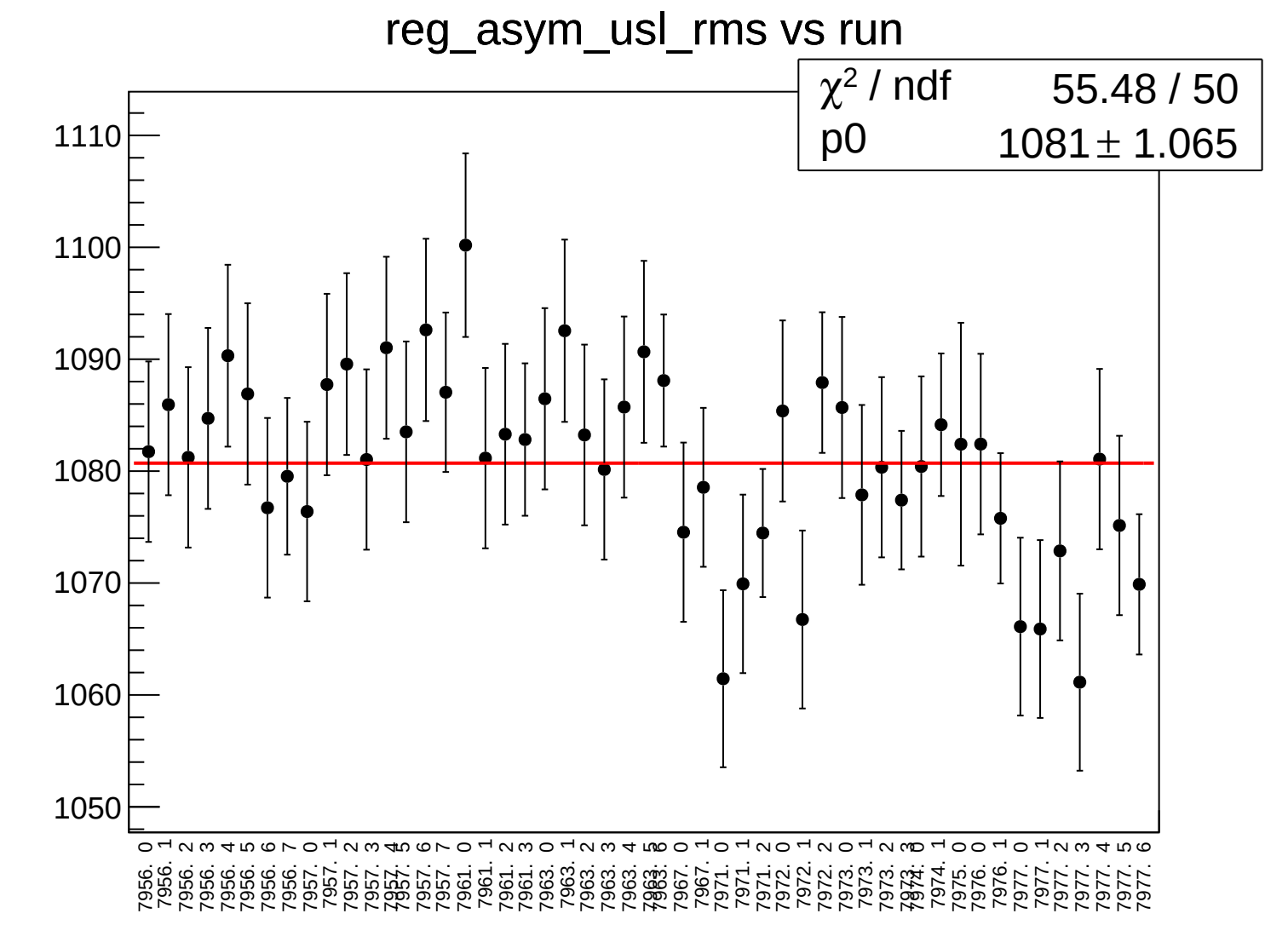

asym_ds_dd_mean vs run
×10^3
χ^2 / ndf 19.7 / 24
p0 5355 ± 6.953e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 10.18
Std Dev 9.319
1.5
1
0.5
0
−0.5
−1
−1.5

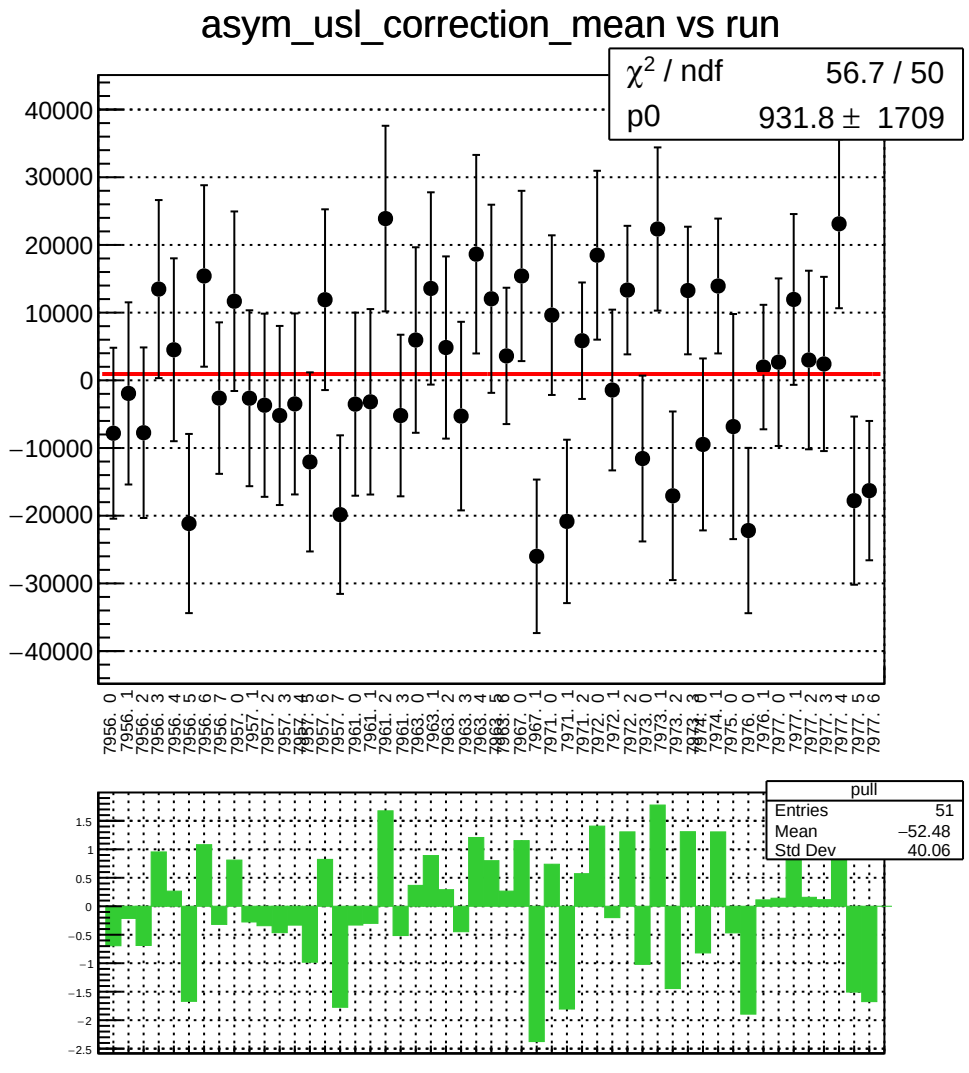

pull1D
Entries 25
Mean −0.09786
Std Dev 0.8823
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

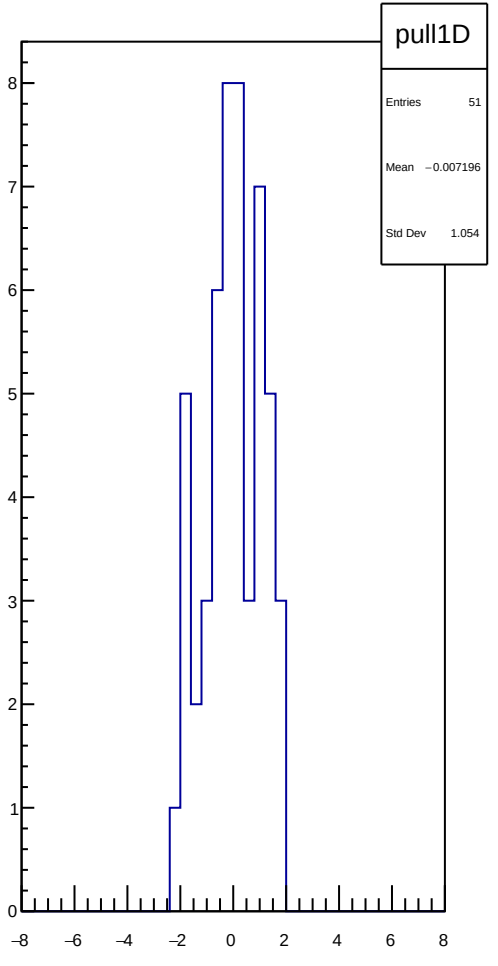

asym_ds_dd_rms vs run
×10^3
χ^2 / ndf 2.289e+05 / 36
p0 3.41e+04 ± 48.58
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

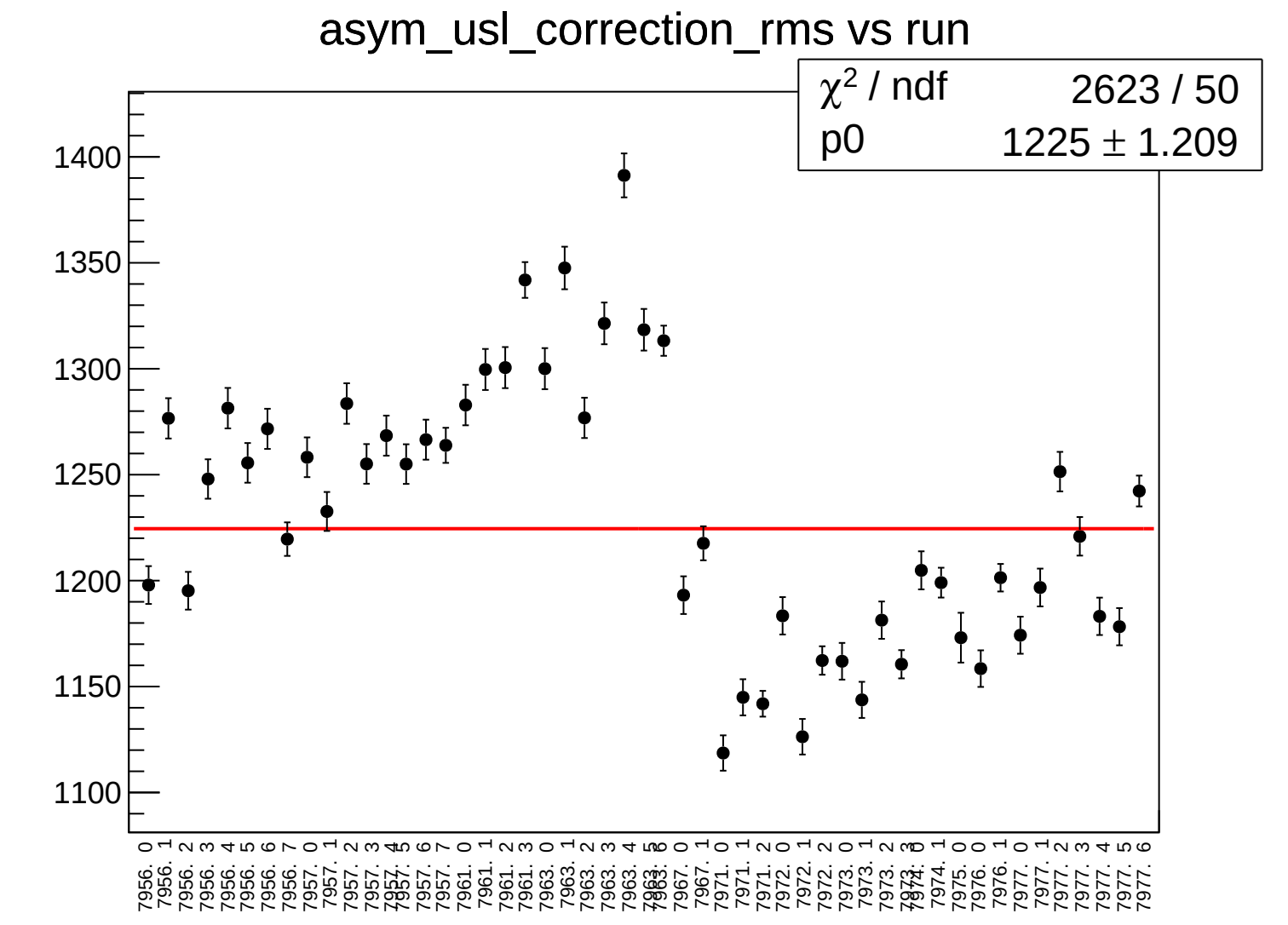

reg_asym_usl_mean vs run
χ^2 / ndf 40.83 / 50
p0 −2891 ± 1507
pull
Entries 51
Mean 23.3
Std Dev 14.98

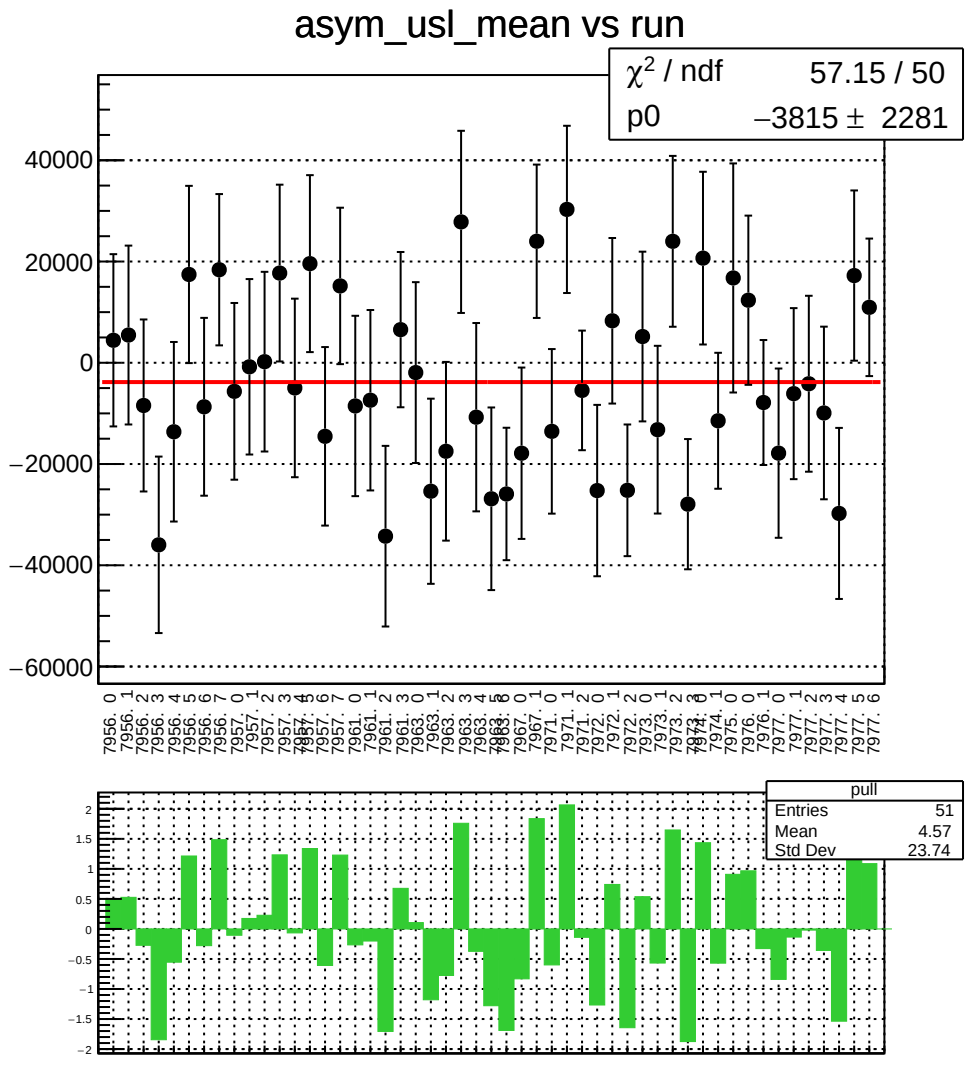

pull1D
Entries 51
Mean 0.02418
Std Dev 0.8944

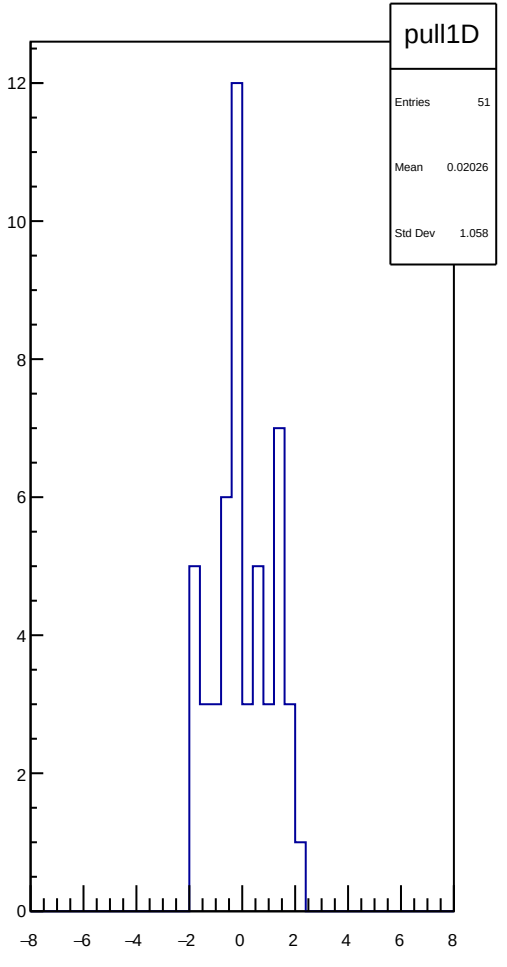

reg_asym_usl_rms vs run
χ² / ndf 55.48 / 50
p0 1081 ± 1.065
1110
1100
1090
1080
1070
1060
1050
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

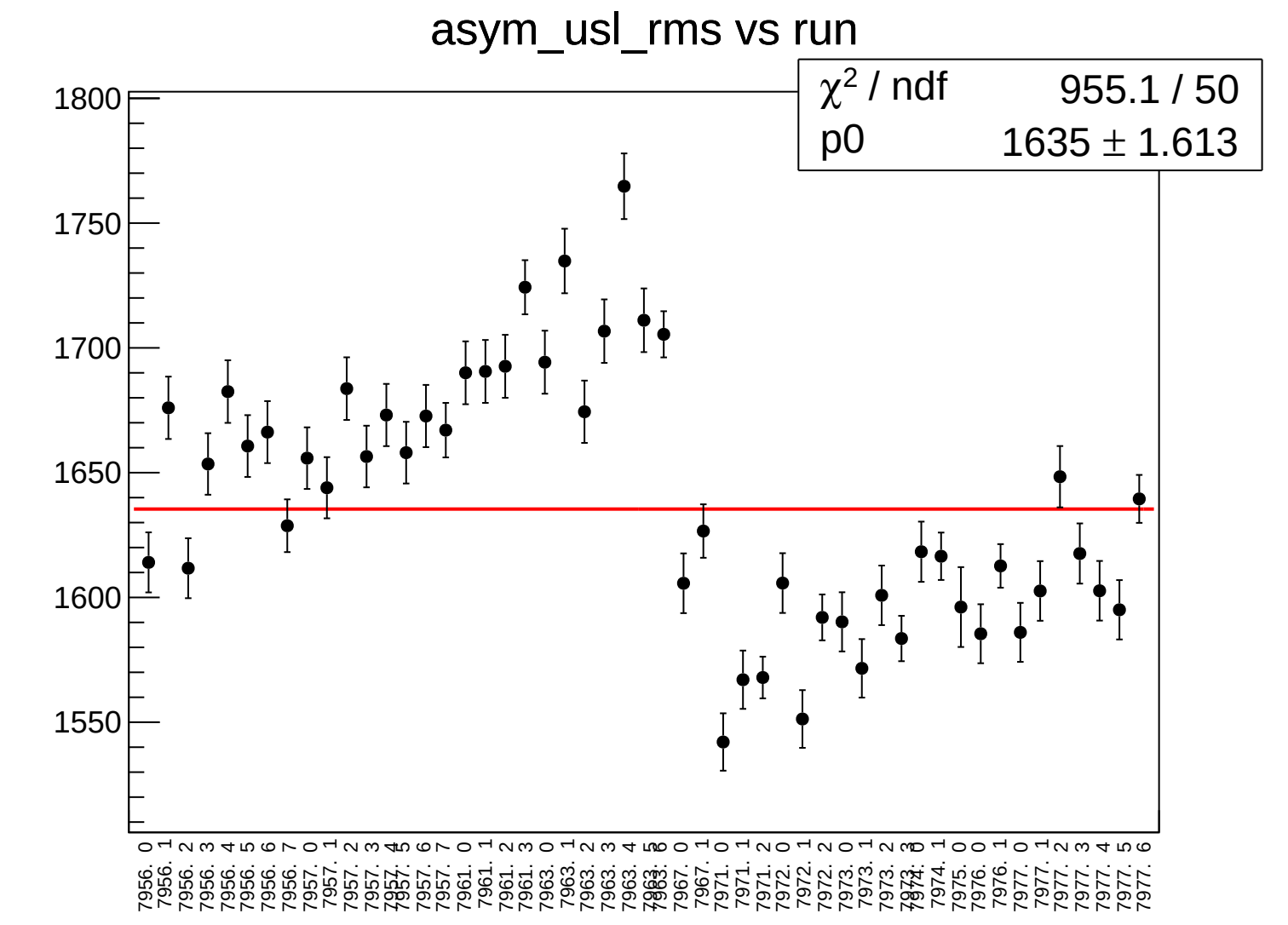

asym_usl_correction_mean vs run
χ² / ndf 56.7 / 50
p0 931.8 ± 1709
pull
Entries 51
Mean −52.48
Std Dev 40.06


pull1D
Entries 51
Mean −0.007196
Std Dev 1.054


asym_usl_correction_rms vs run
χ² / ndf 2623 / 50
p0 1225 ± 1.209
1400
1350
1300
1250
1200
1150
1100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_usl_mean vs run
χ² / ndf 57.15 / 50
p0 −3815 ± 2281
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 4.57
Std Dev 23.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.02026
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 955.1 / 50
p0 1635 ± 1.613
1800
1750
1700
1650
1600
1550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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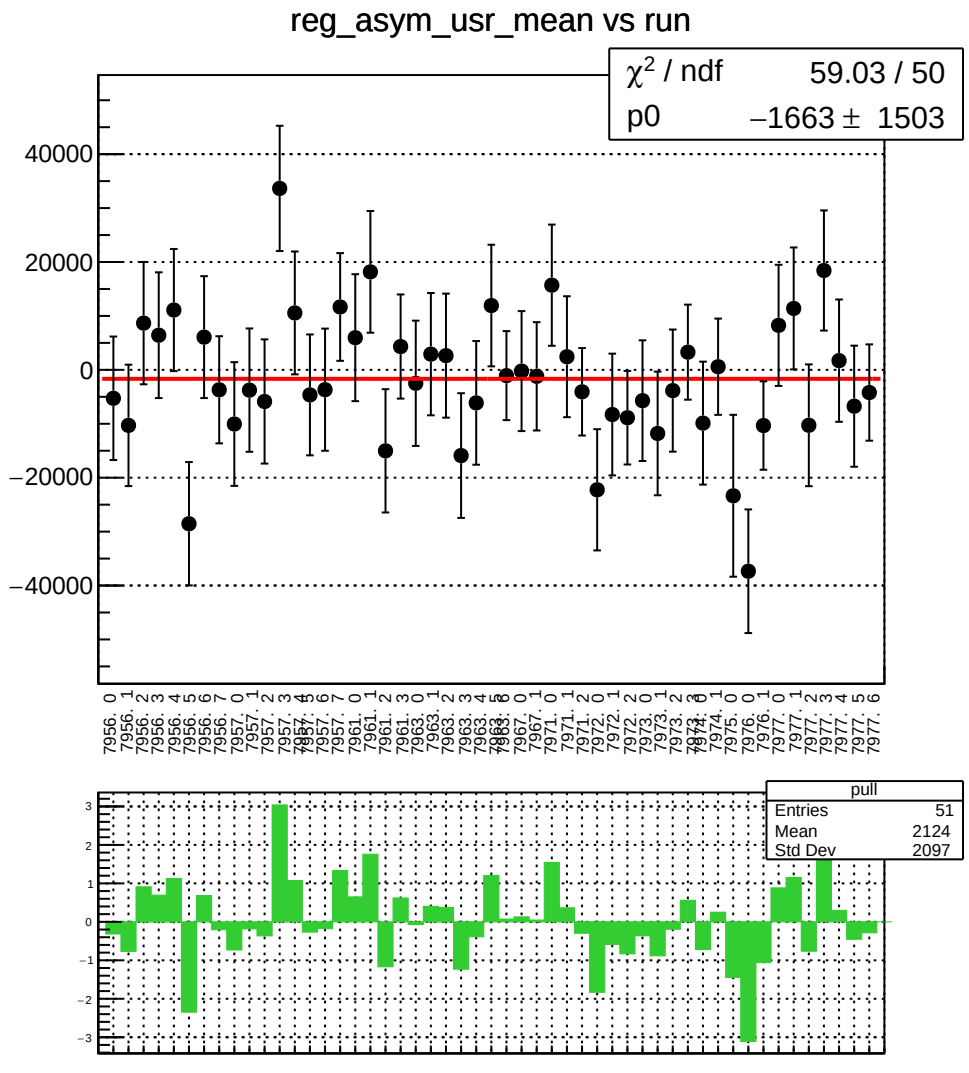
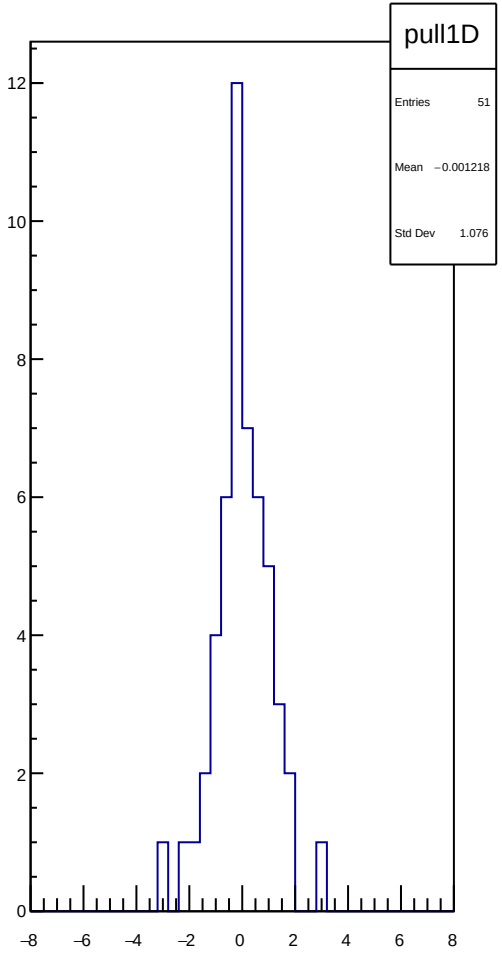
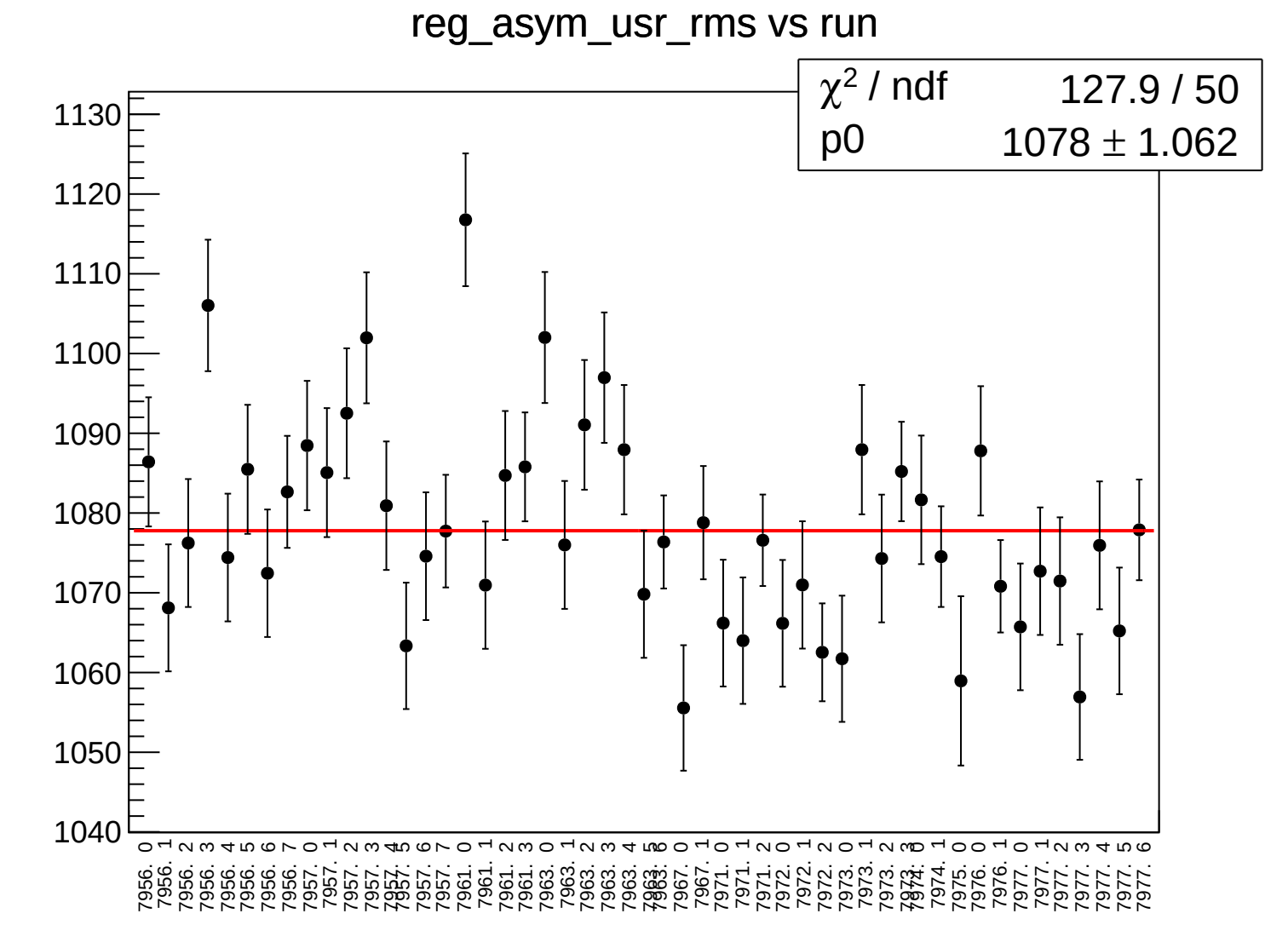
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_usr_mean vs run
χ² / ndf 59.03 / 50
p0 −1663 ± 1503
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 2124
Std Dev 2097
3
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.001218
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 127.9 / 50
p0 1078 ± 1.062
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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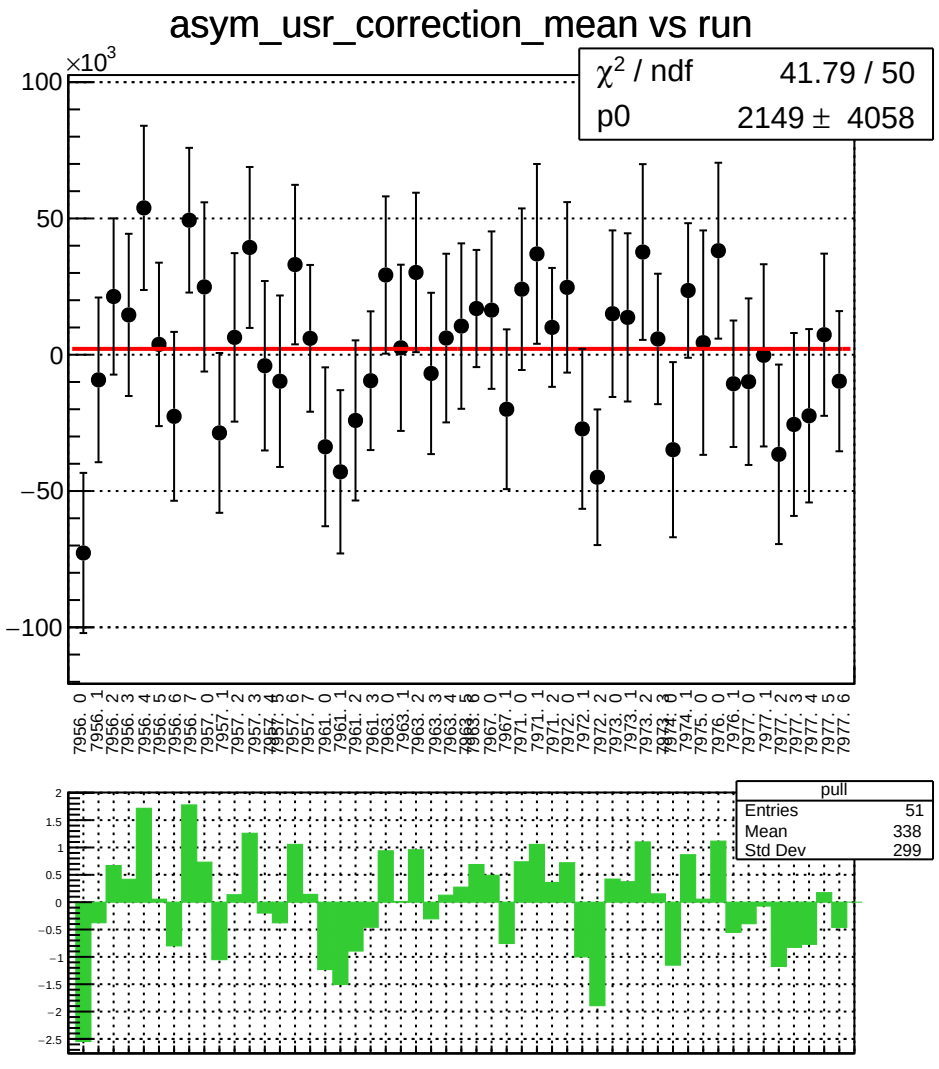
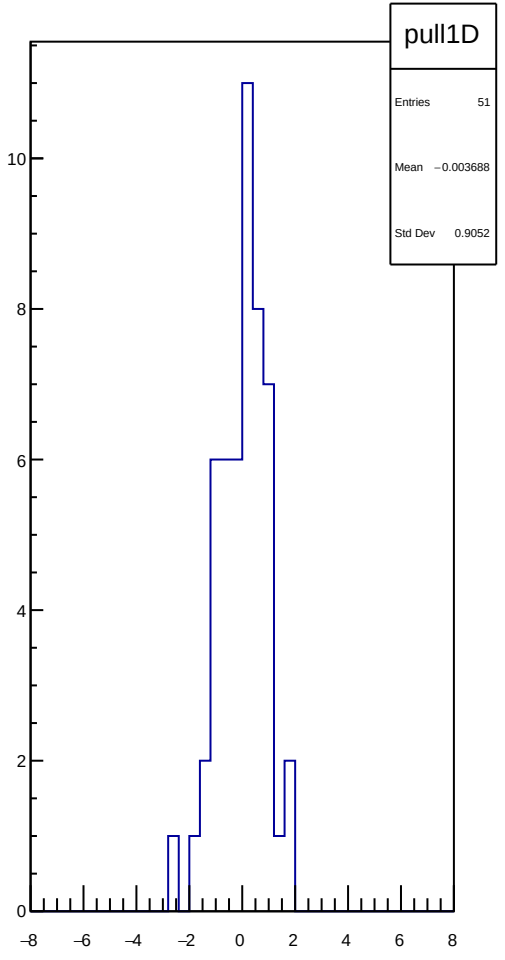
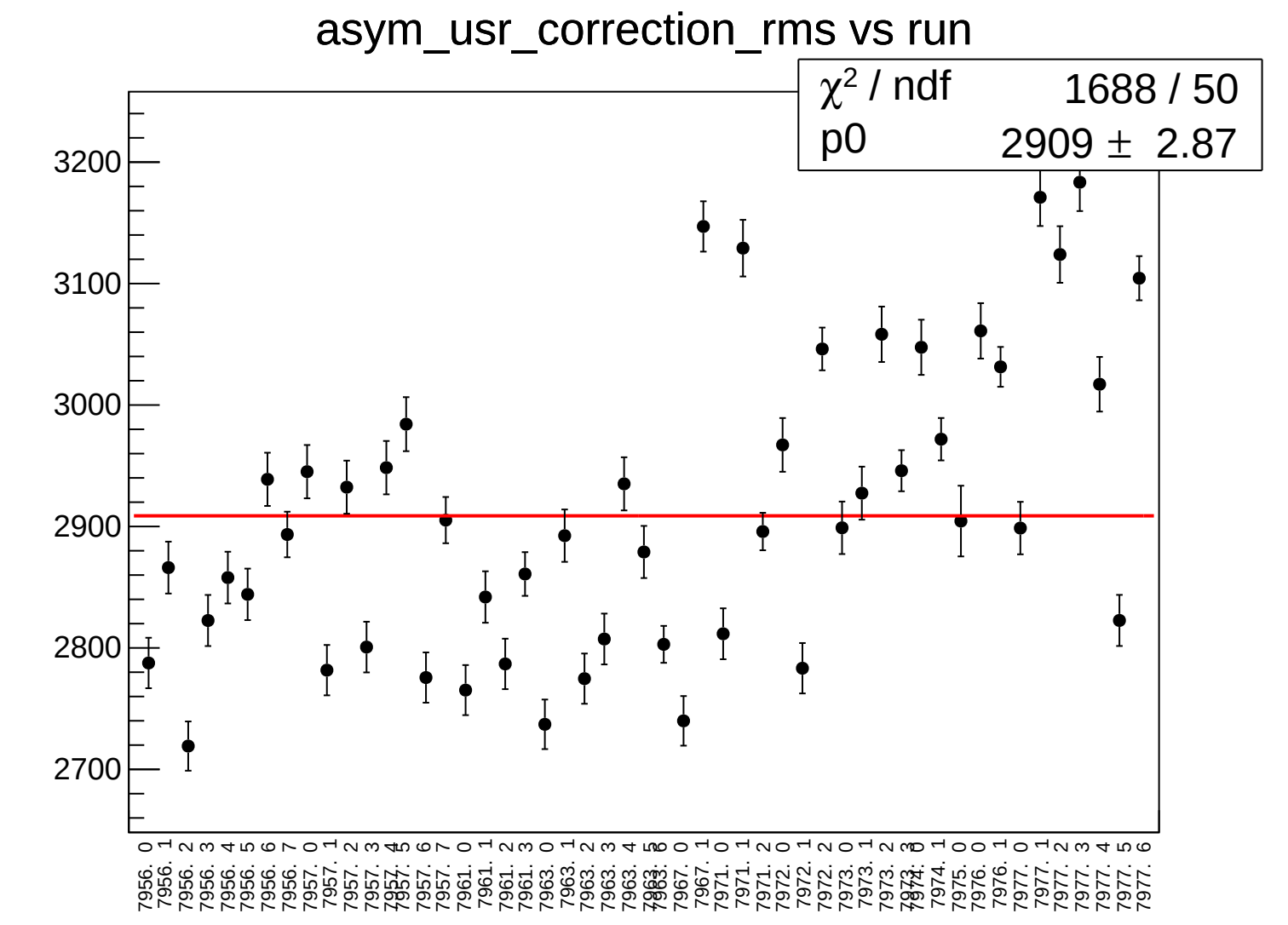
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_usr_correction_mean vs run
×10^3
χ² / ndf 41.79 / 50
p0 2149 ± 4058
pull
Entries 51
Mean 338
Std Dev 299


pull1D
Entries 51
Mean −0.003688
Std Dev 0.9052


asym_usr_correction_rms vs run
χ² / ndf 1688 / 50
p0 2909 ± 2.87
3200
3100
3000
2900
2800
2700
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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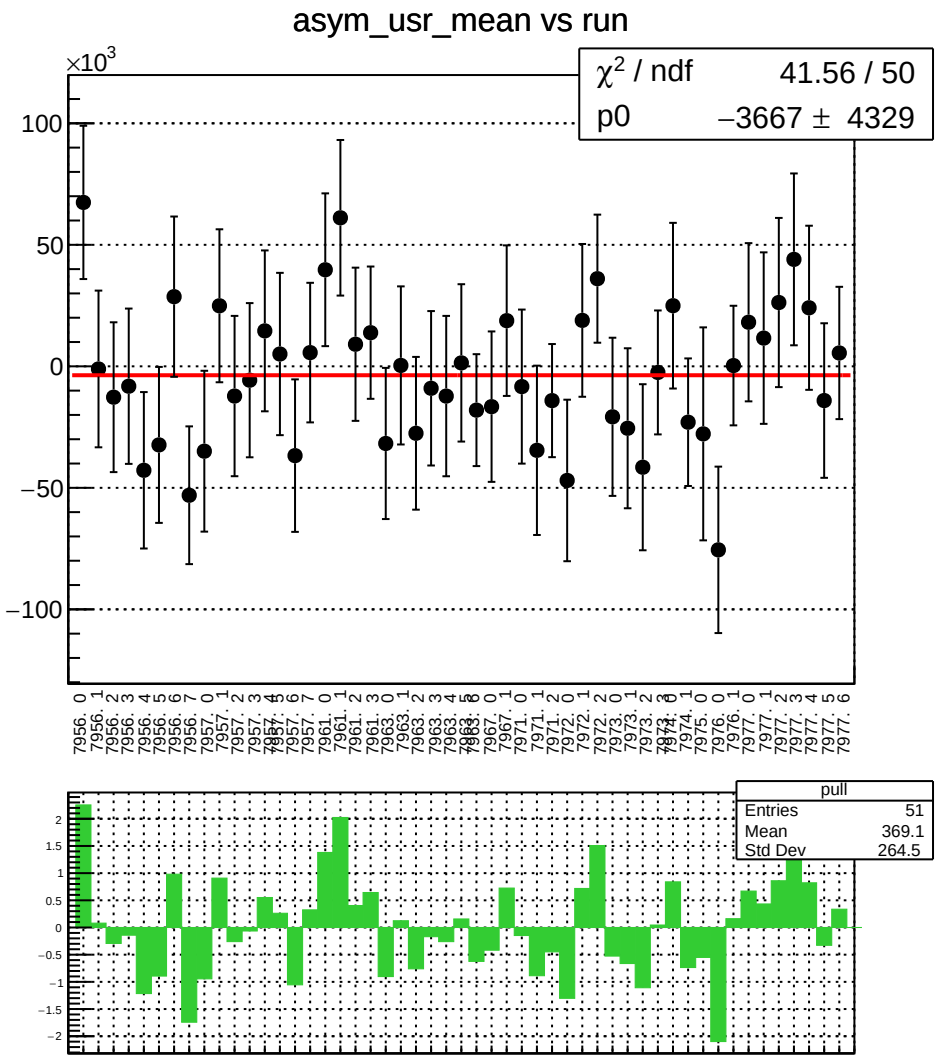
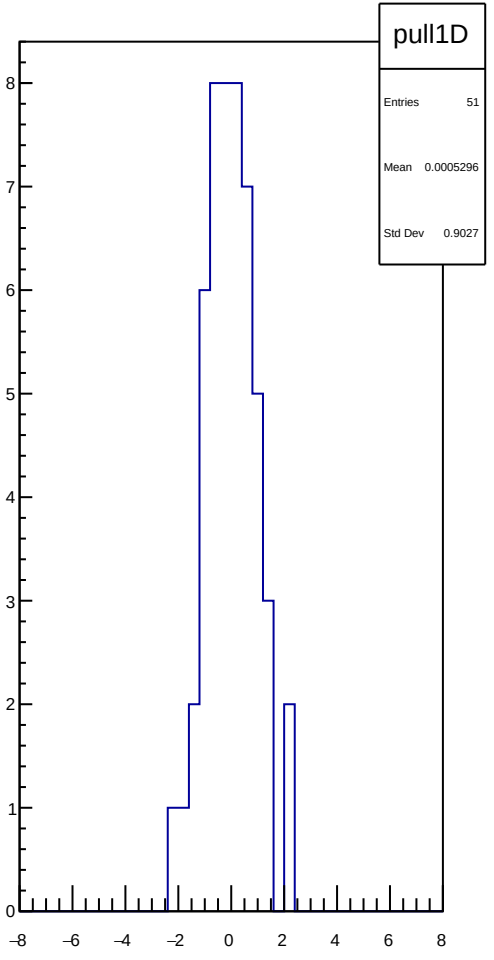
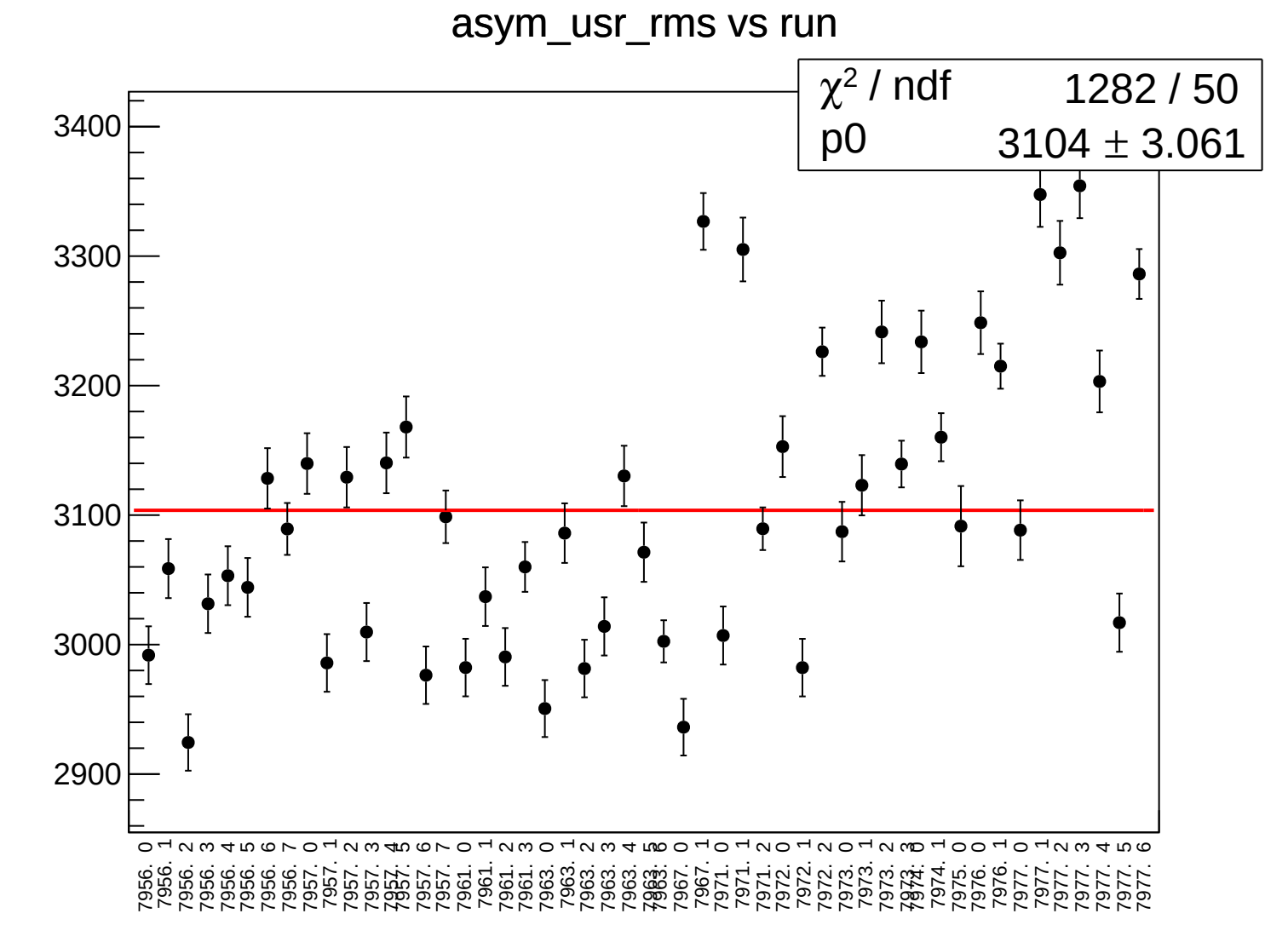
7977. 5
7977. 6


asym_usr_mean vs run
×10^3
χ² / ndf 41.56 / 50
p0 −3667 ± 4329
100
50
0
−50
−100
pull
Entries 51
Mean 369.1
Std Dev 264.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.0005296
Std Dev 0.9027
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_rms vs run
χ² / ndf 1282 / 50
p0 3104 ± 3.061
3400
3300
3200
3100
3000
2900
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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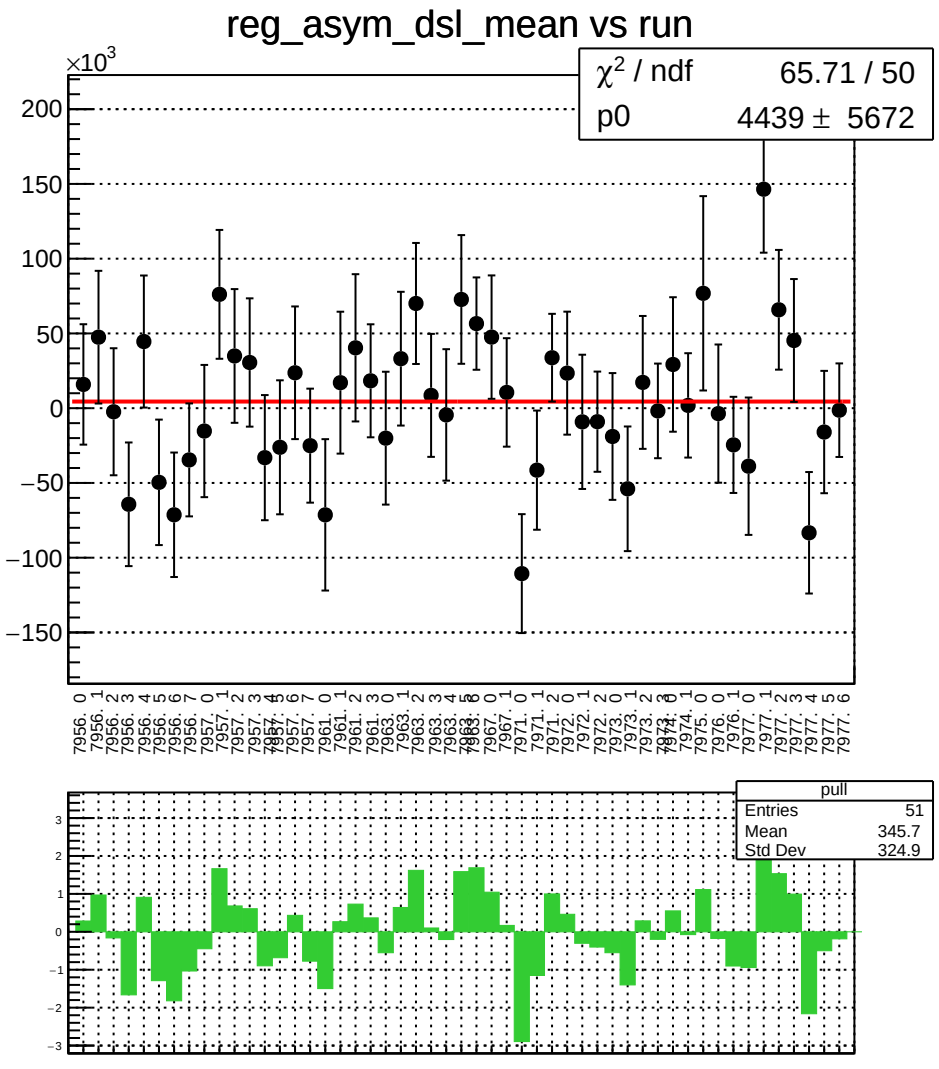
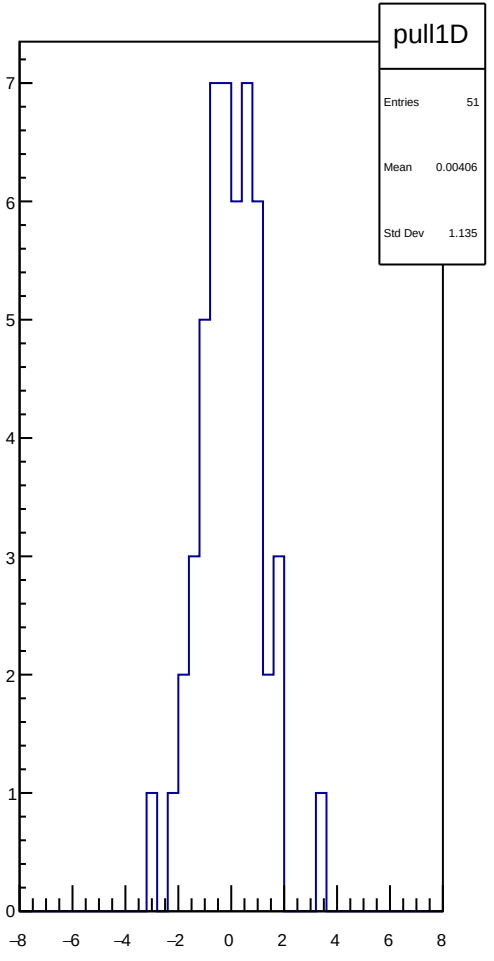
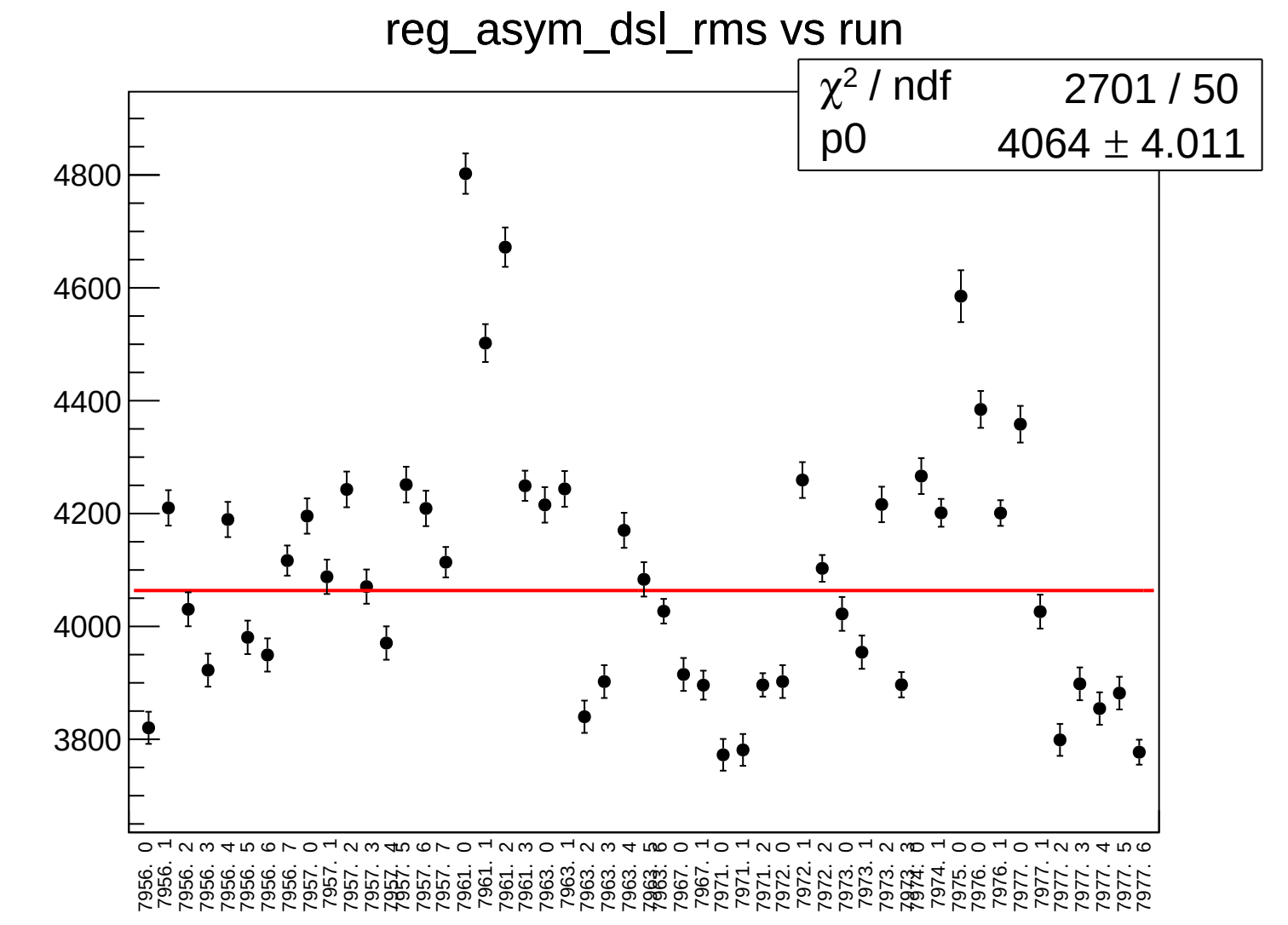
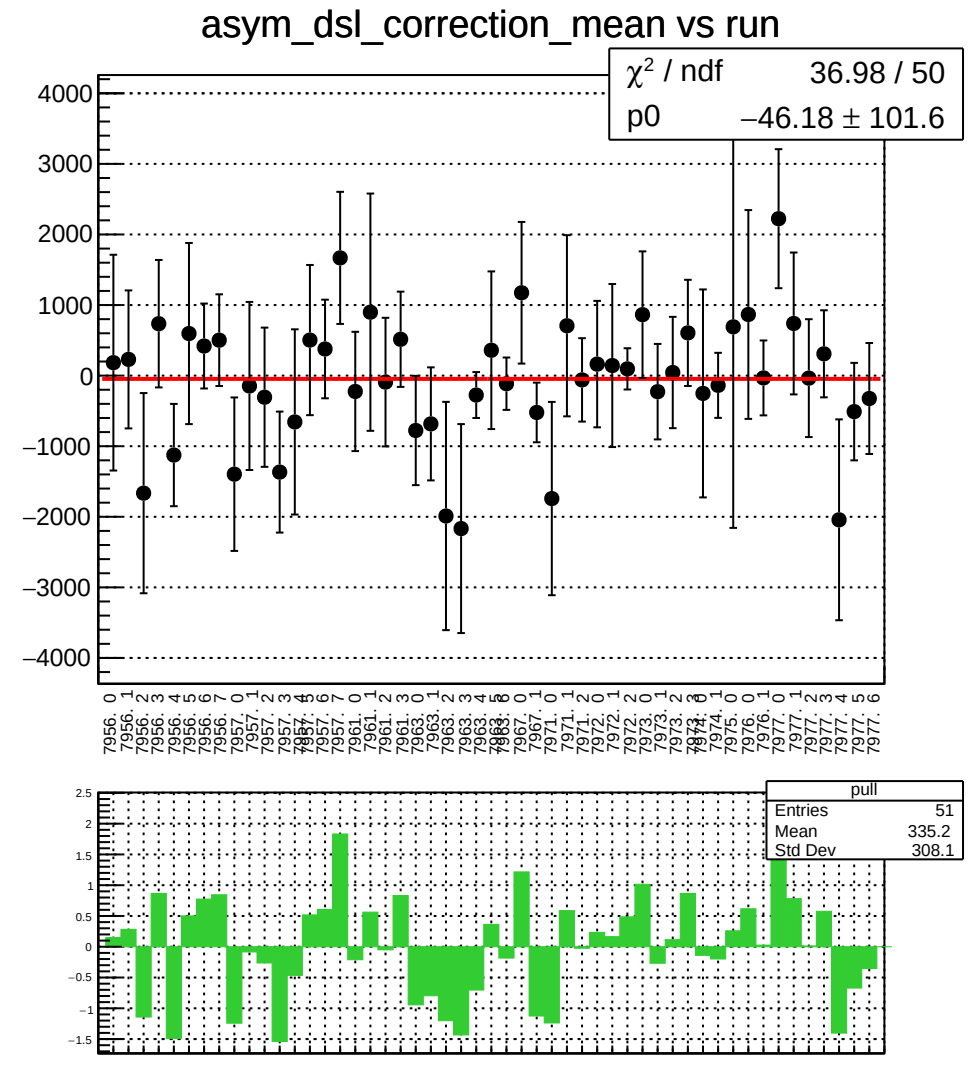
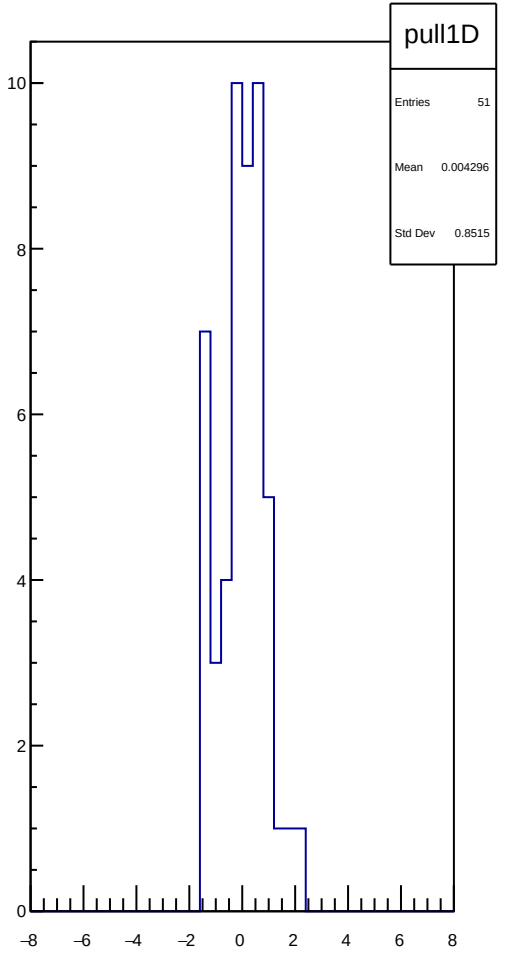
7977. 5
7977. 6

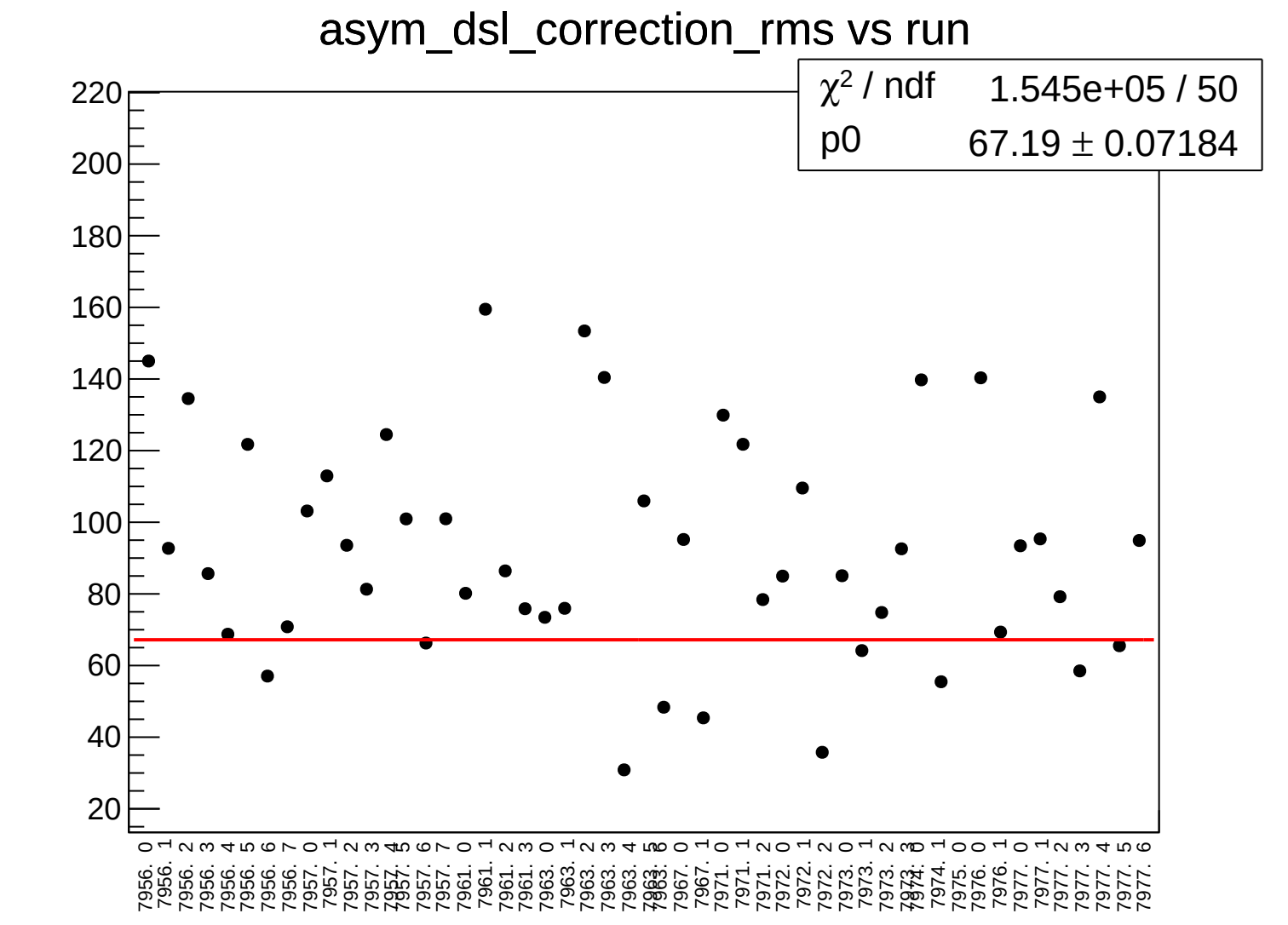

reg_asym_dsl_mean vs run
×10^3
χ² / ndf 65.71 / 50
p0 4439 ± 5672
pull
Entries 51
Mean 345.7
Std Dev 324.9


pull1D
Entries 51
Mean 0.00406
Std Dev 1.135


reg_asym_dsl_rms vs run
χ² / ndf 2701 / 50
p0 4064 ± 4.011
4800
4600
4400
4200
4000
3800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_dsl_correction_mean vs run
χ² / ndf 36.98 / 50
p0 −46.18 ± 101.6
pull
Entries 51
Mean 335.2
Std Dev 308.1


pull1D
Entries 51
Mean 0.004296
Std Dev 0.8515


asym_dsl_correction_rms vs run
χ^2 / ndf 1.545e+05 / 50
p0 67.19 ± 0.07184
220
200
180
160
140
120
100
80
60
40
20
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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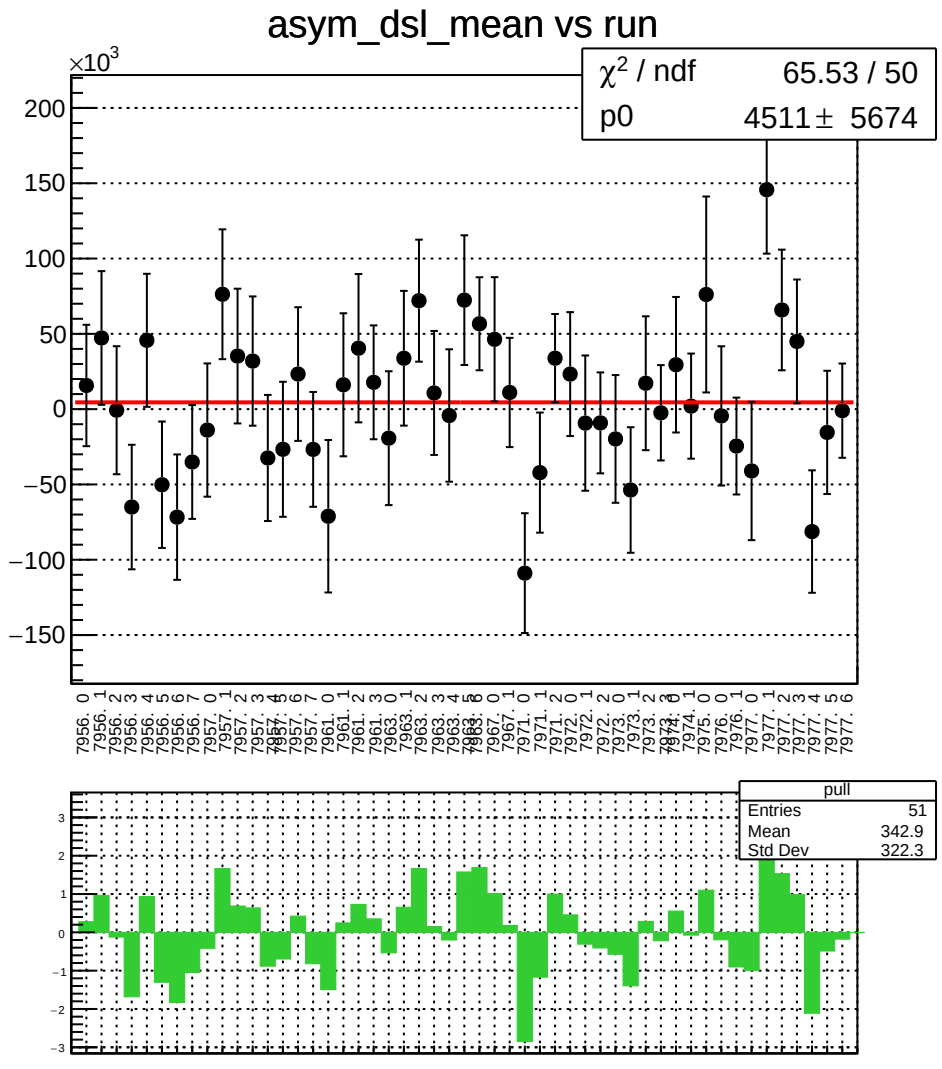
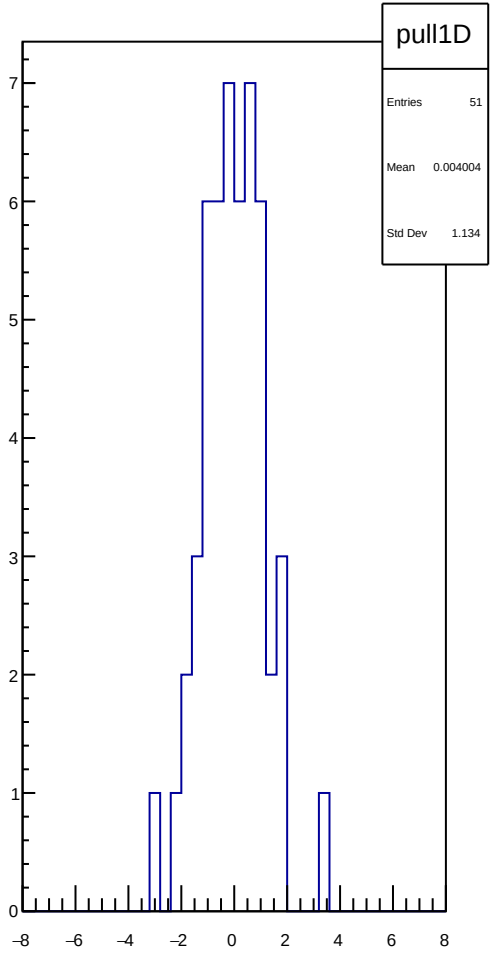
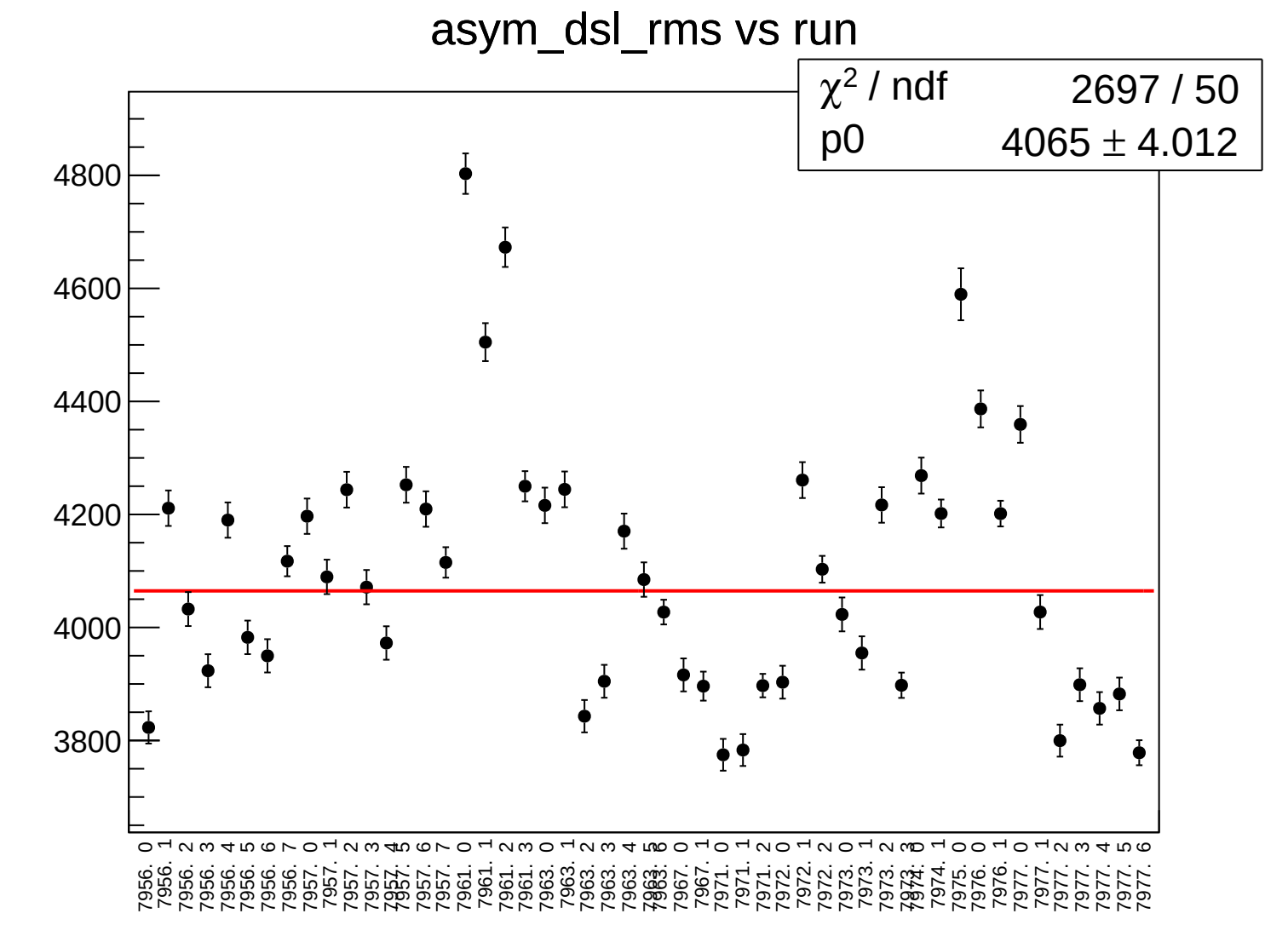
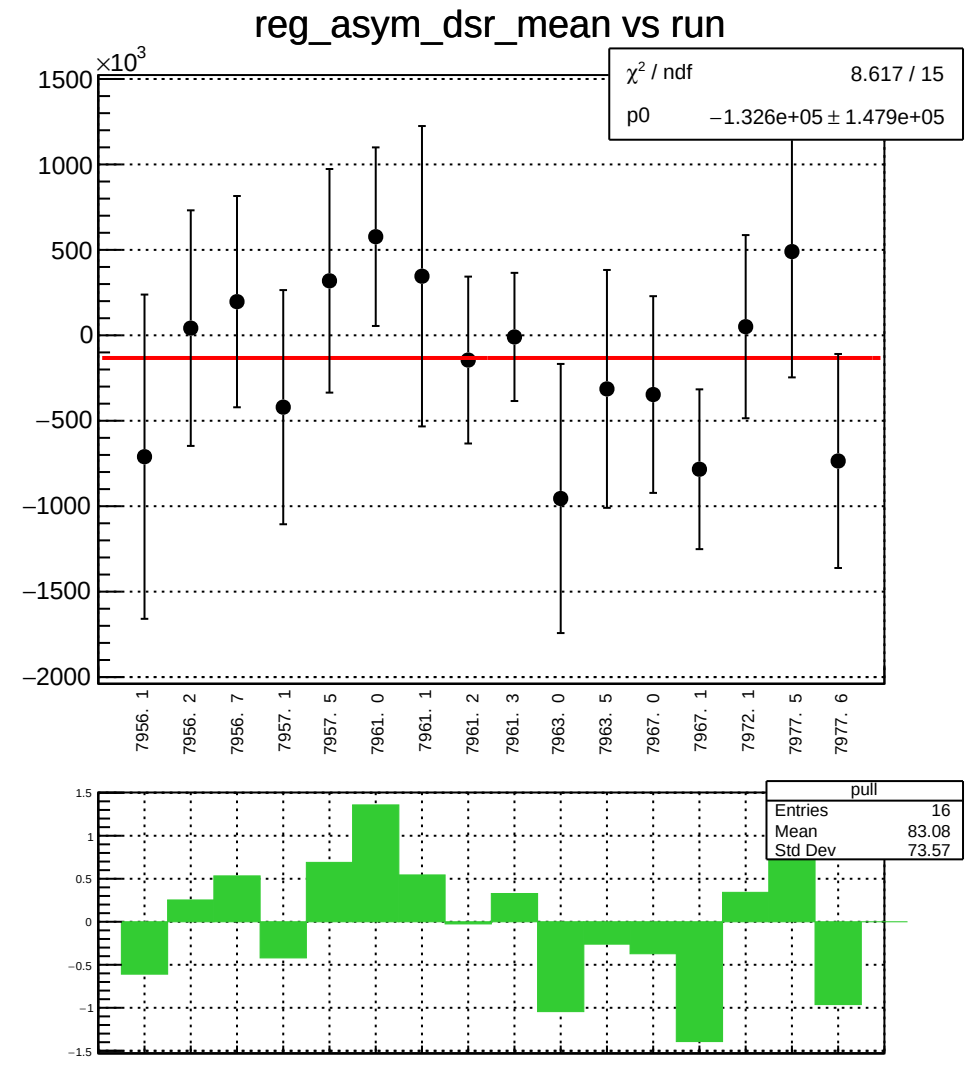
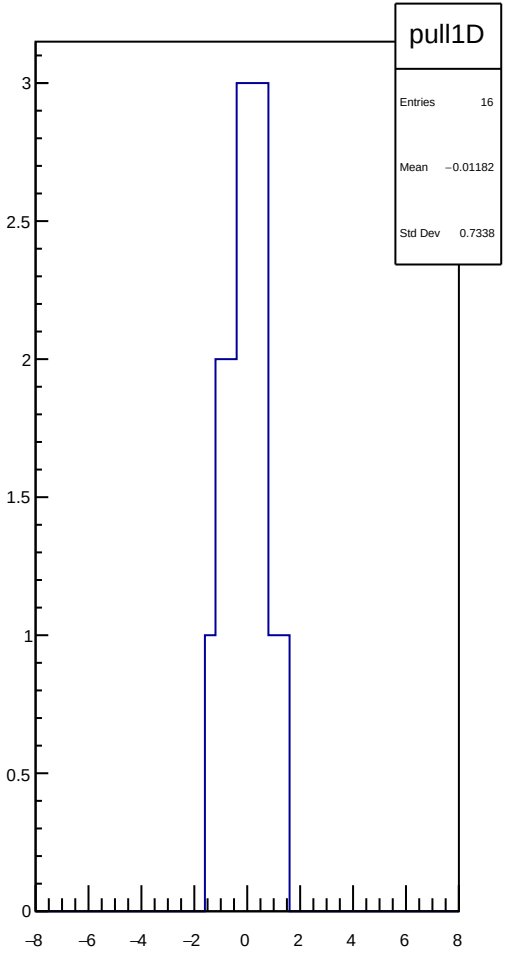
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

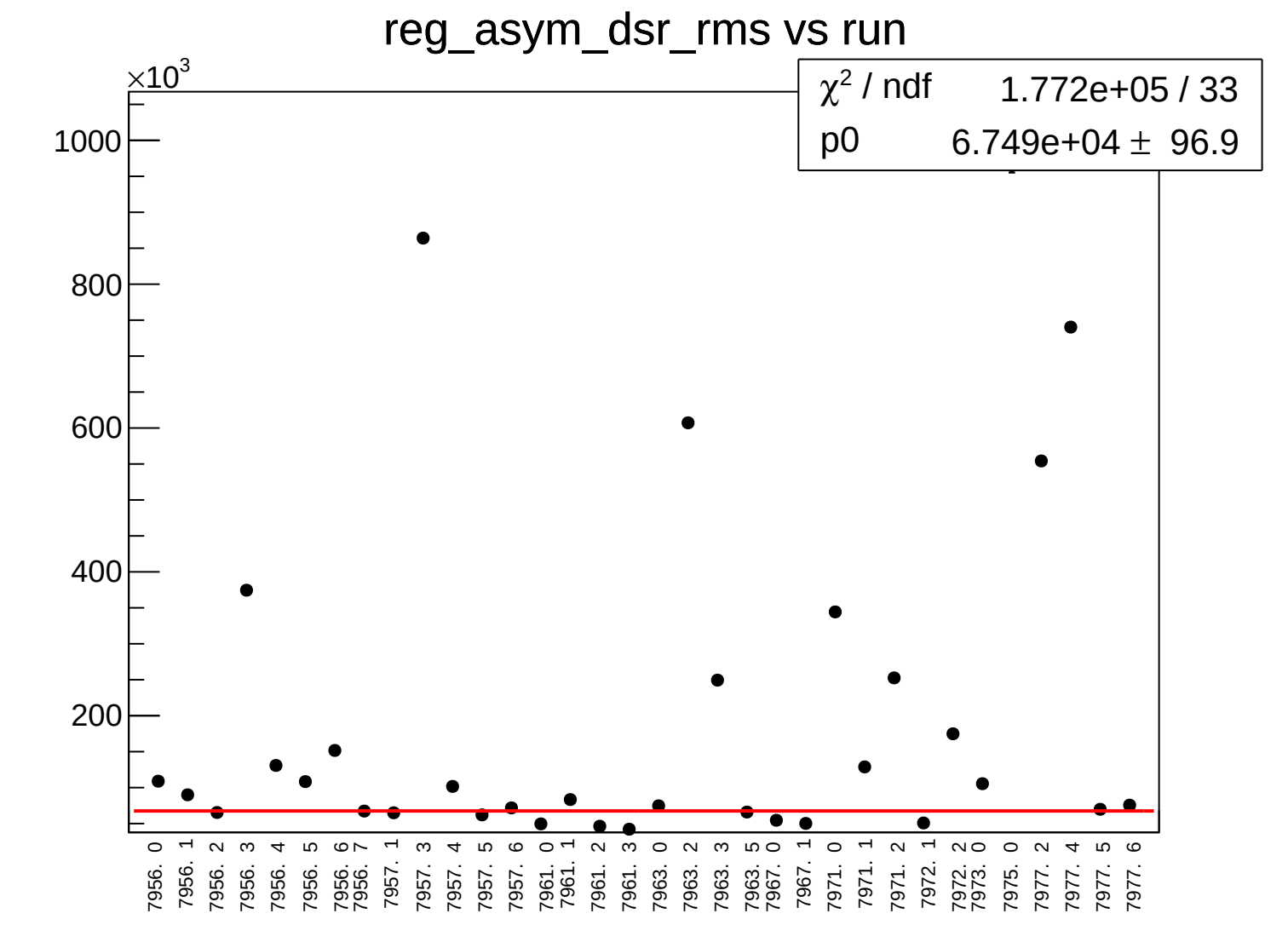

asym_dsl_mean vs run
×10^3
χ² / ndf 65.53 / 50
p0 4511 ± 5674
200
150
100
50
0
−50
−100
−150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 51
Mean 342.9
Std Dev 322.3
3
2
1
0
−1
−2
−3

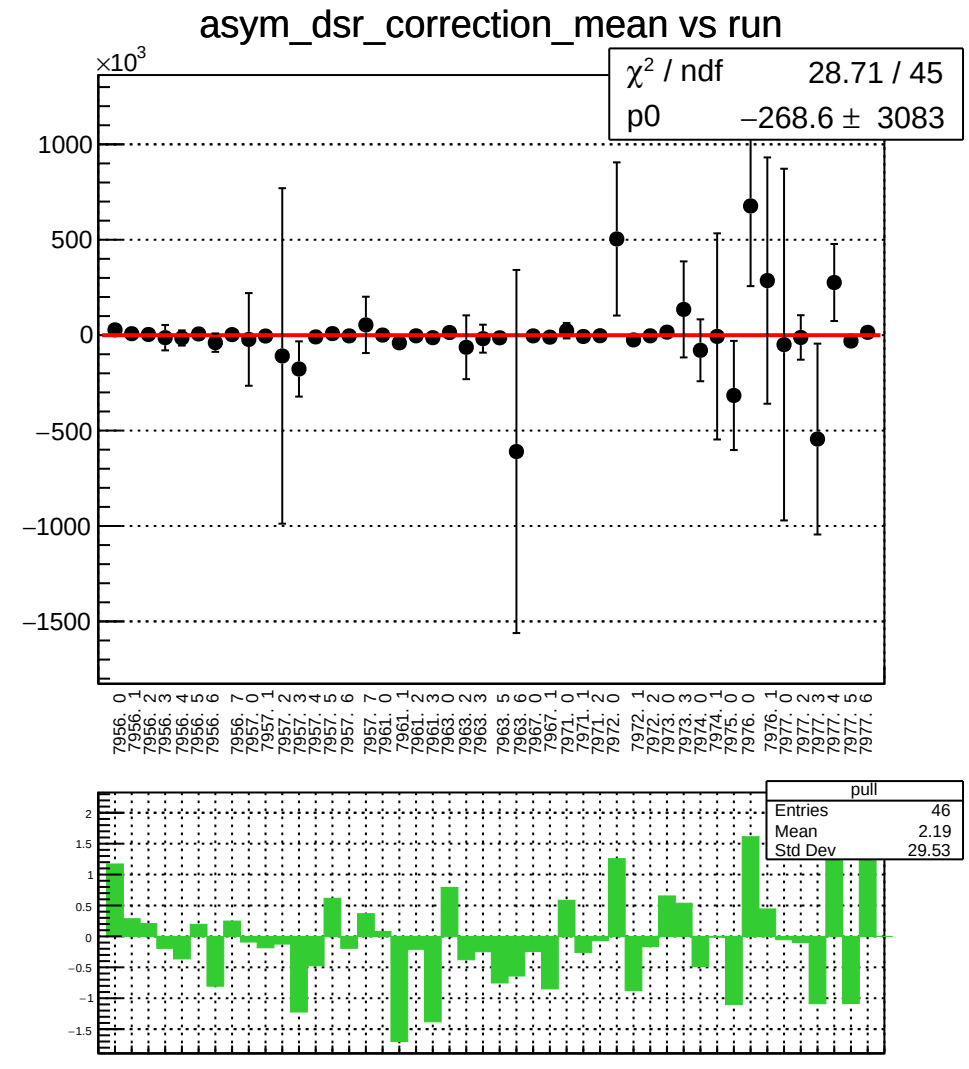

pull1D
Entries 51
Mean 0.004004
Std Dev 1.134
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

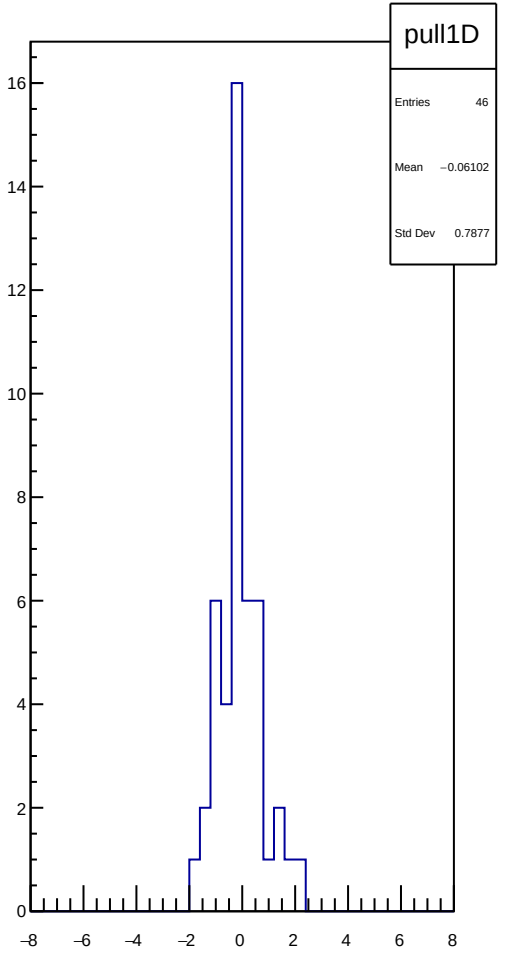

asym_dsl_rms vs run
χ^2 / ndf 2697 / 50
p0 4065 ± 4.012
4800
4600
4400
4200
4000
3800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

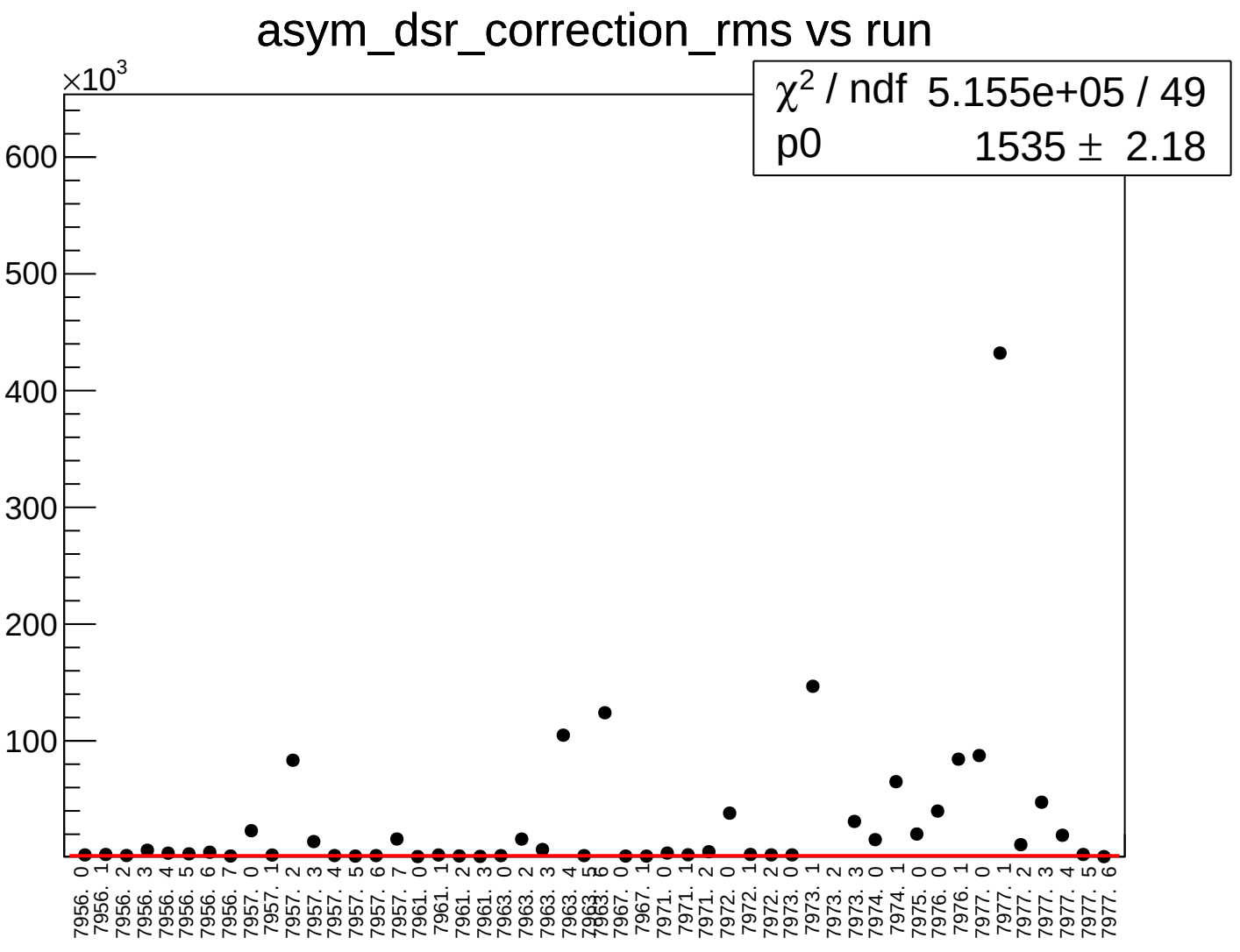

reg_asym_dsr_mean vs run
×10^3
χ² / ndf 8.617 / 15
p0 −1.326e+05 ± 1.479e+05
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 1
7956. 2
7956. 7
7957. 1
7957. 5
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7972. 1
7977. 5
7977. 6
pull
Entries 16
Mean 83.08
Std Dev 73.57
1.5
1
0.5
0
−0.5
−1
−1.5

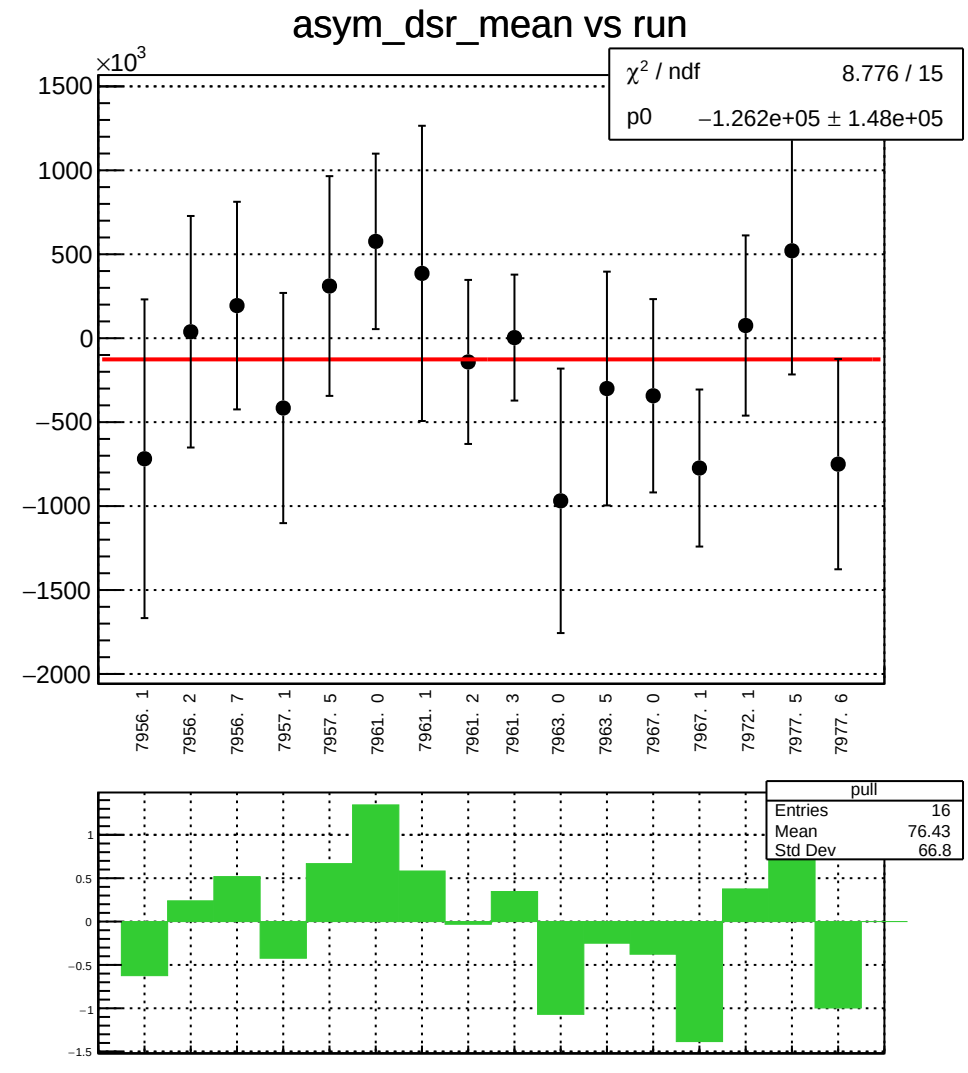

pull1D
Entries 16
Mean −0.01182
Std Dev 0.7338
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

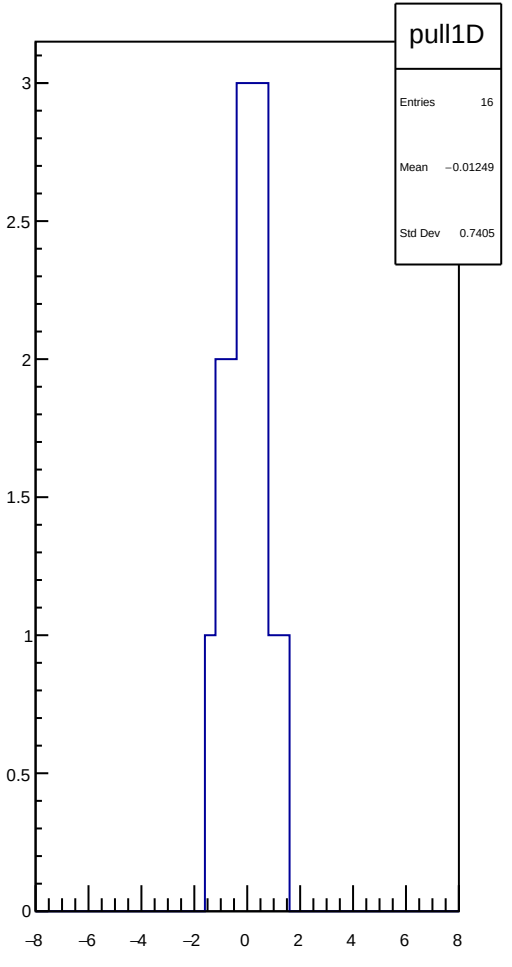

reg_asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.772e+05 / 33
p0 6.749e+04 ± 96.9
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

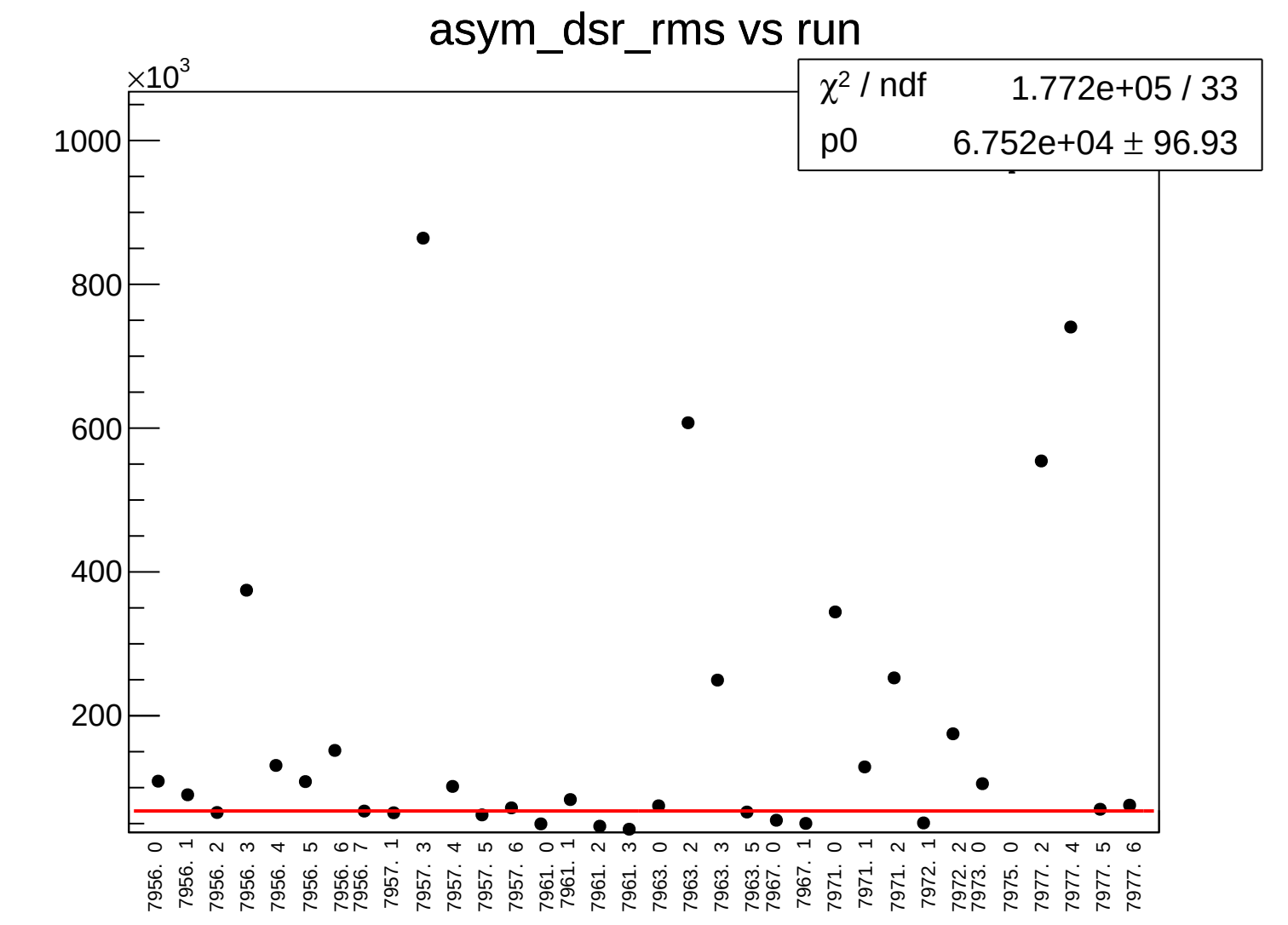

asym_dsr_correction_mean vs run
×10^3
χ² / ndf 28.71 / 45
p0 −268.6 ± 3083
1000
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 46
Mean 2.19
Std Dev 29.53
2
1.5
1
0.5
0
−0.5
−1
−1.5

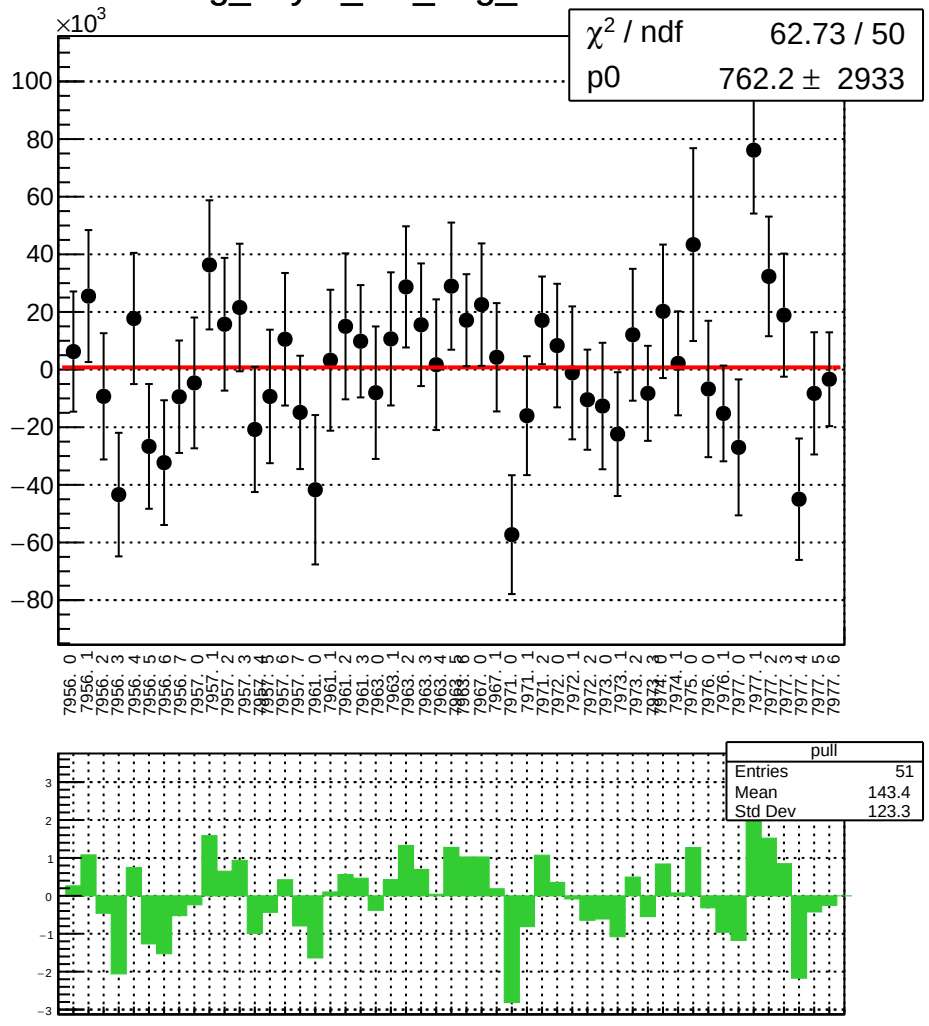

pull1D
Entries 46
Mean −0.06102
Std Dev 0.7877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

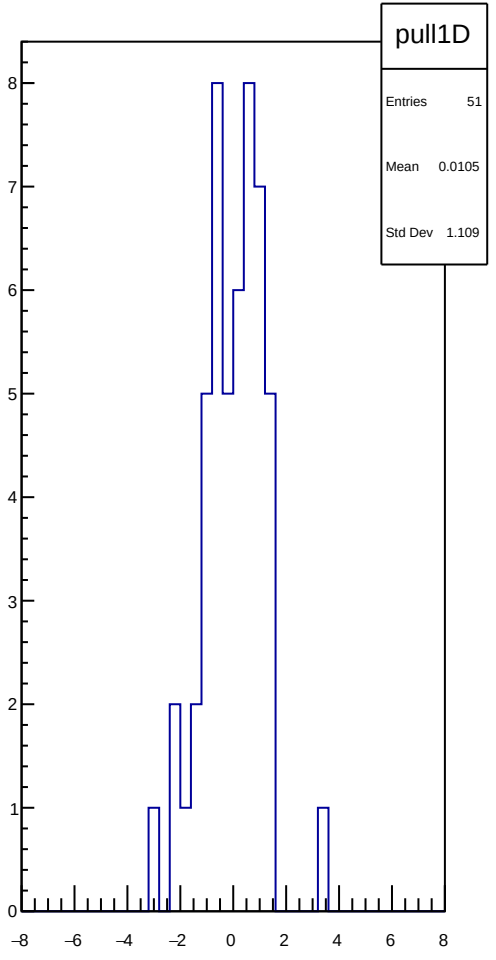

asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 5.155e+05 / 49
p0 1535 ± 2.18
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

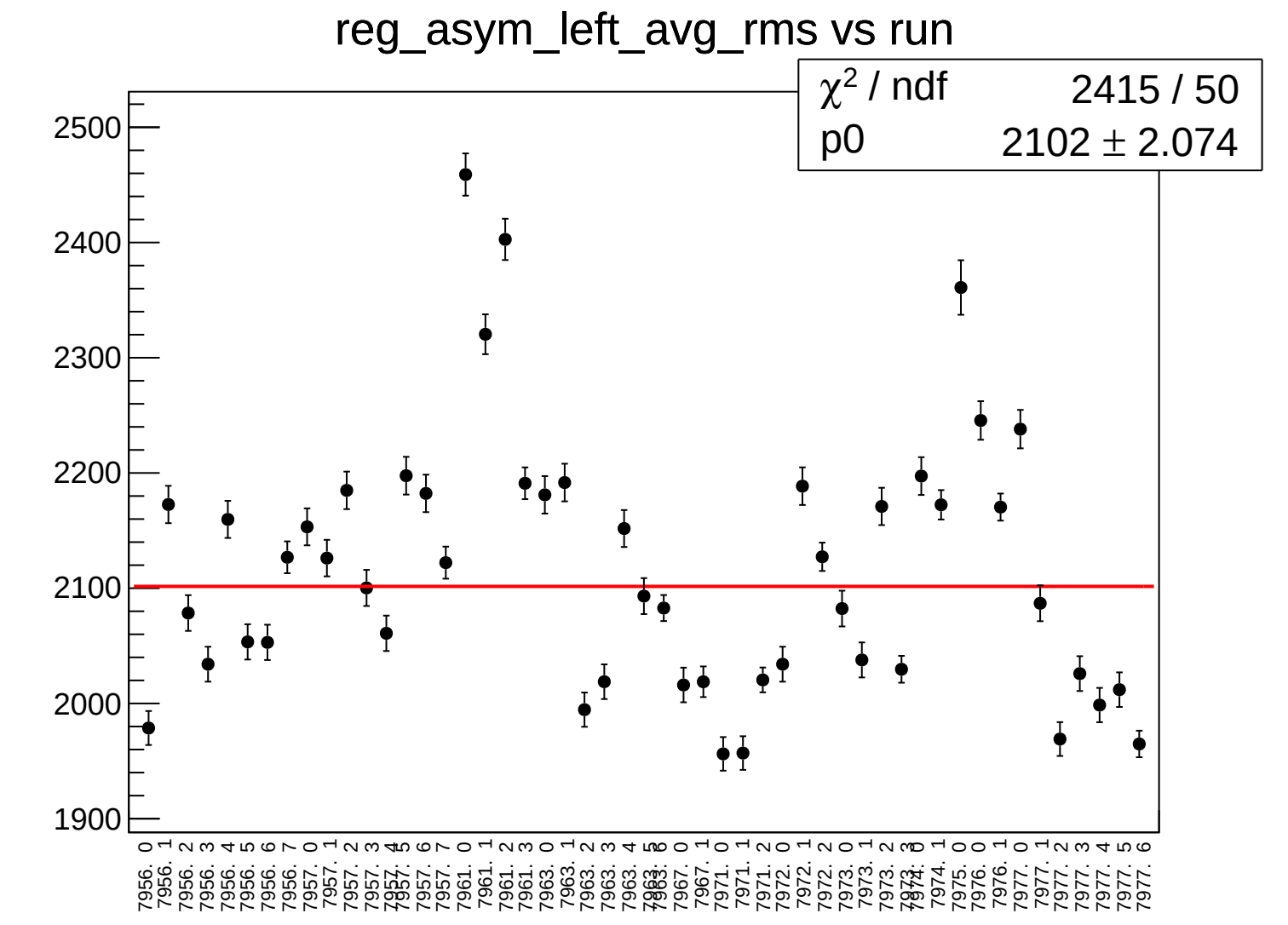

asym_dsr_mean vs run
×10^3
χ² / ndf 8.776 / 15
p0 −1.262e+05 ± 1.48e+05
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 1
7956. 2
7956. 7
7957. 1
7957. 5
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7972. 1
7977. 5
7977. 6
pull
Entries 16
Mean 76.43
Std Dev 66.8
1
0.5
0
−0.5
−1
−1.5

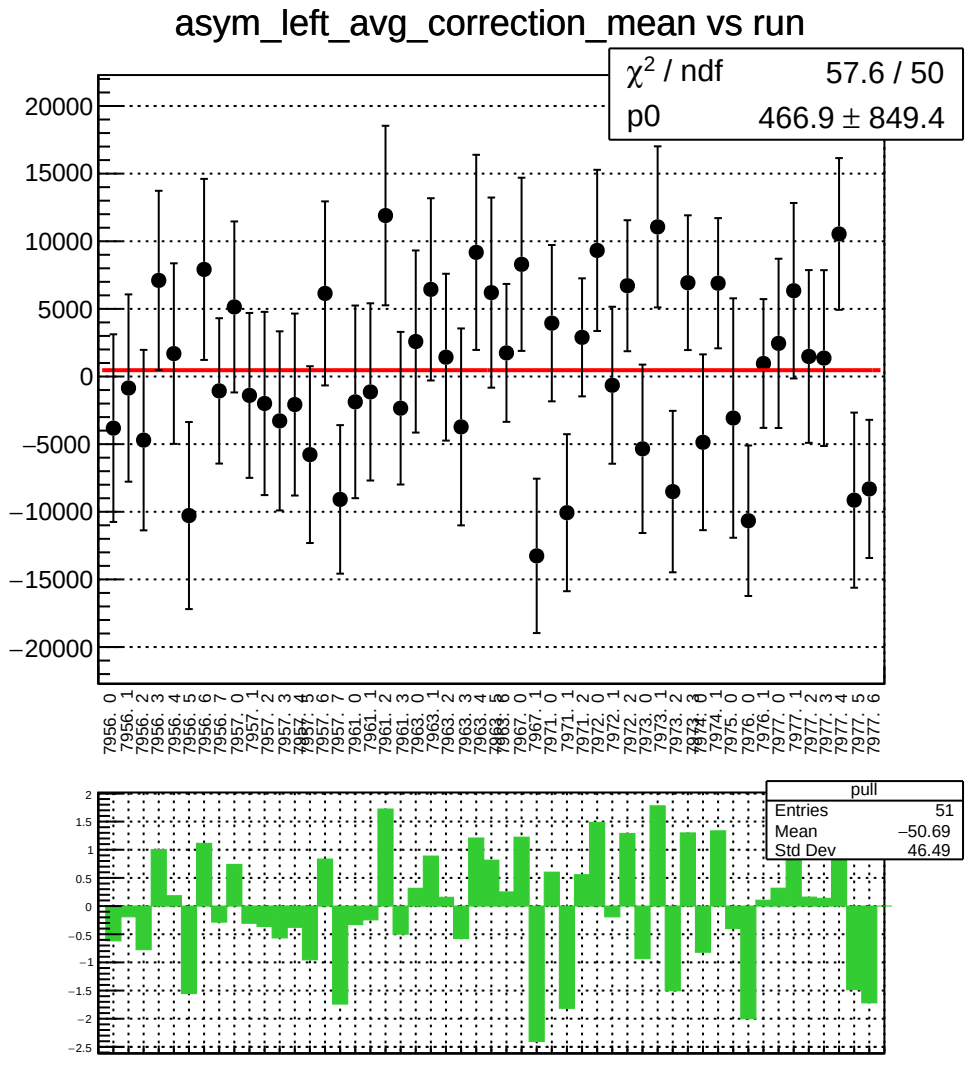

pull1D
Entries 16
Mean −0.01249
Std Dev 0.7405
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

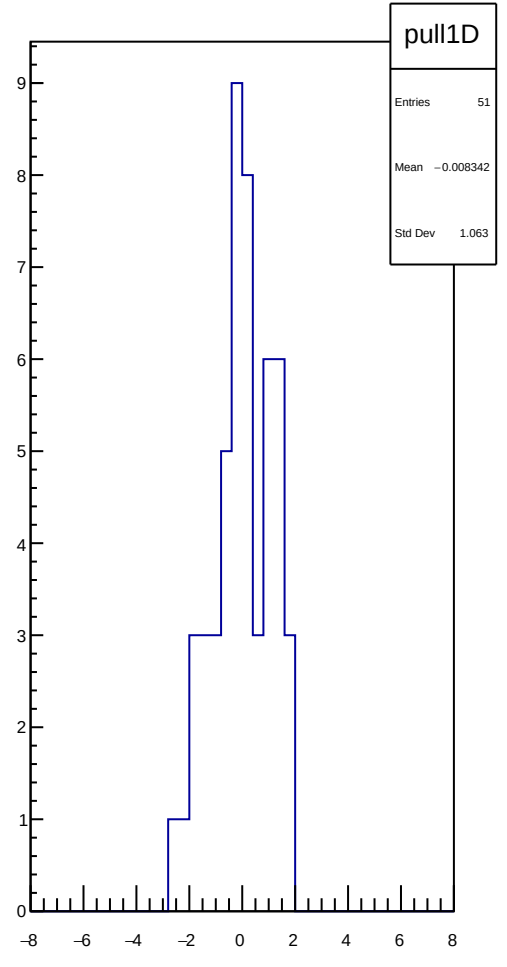

asym_dsr_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 1.772e+05 / 33
p0 6.752e+04 ± 96.93
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

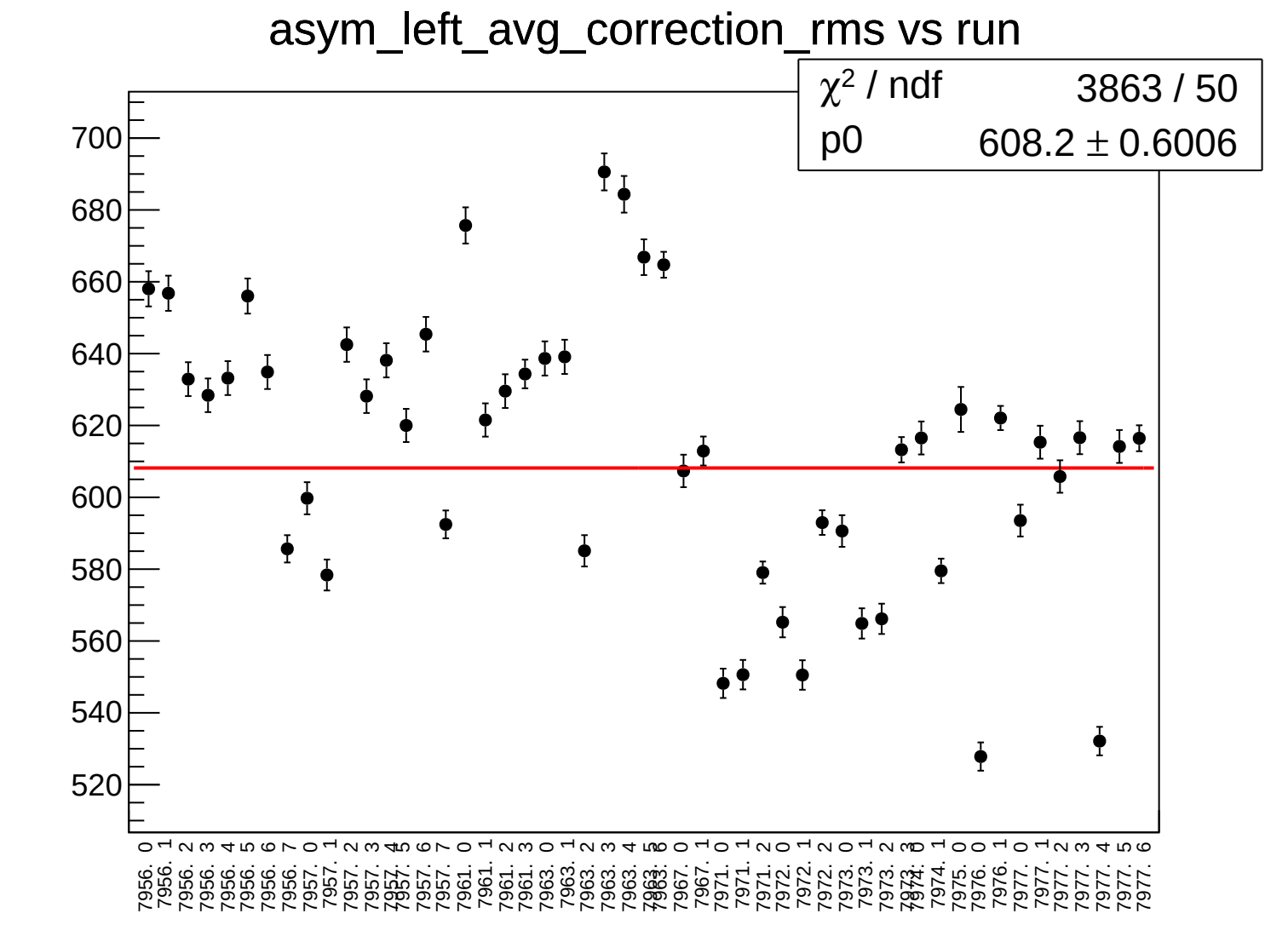

reg_asym_left_avg_mean vs run
×10^3
χ² / ndf 62.73 / 50
p0 762.2 ± 2933
pull
Entries 51
Mean 143.4
Std Dev 123.3

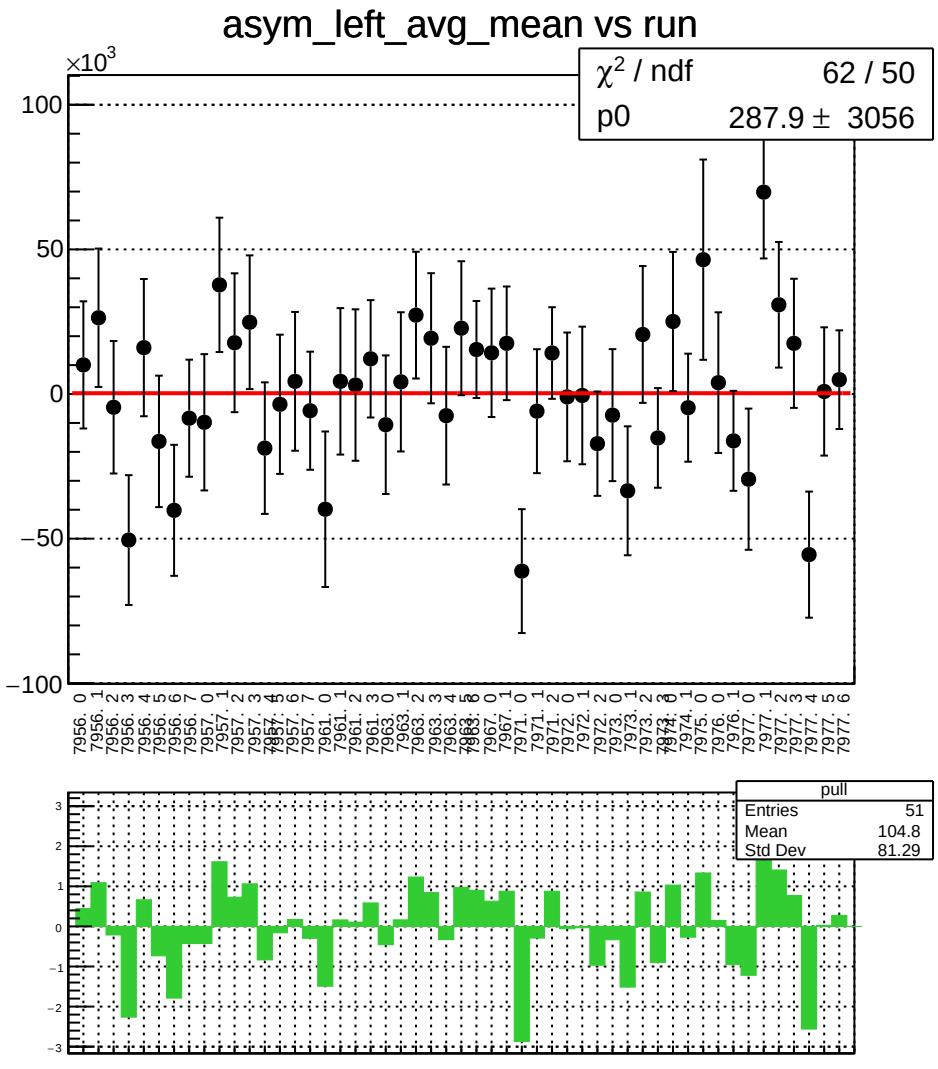

pull1D
Entries 51
Mean 0.0105
Std Dev 1.109

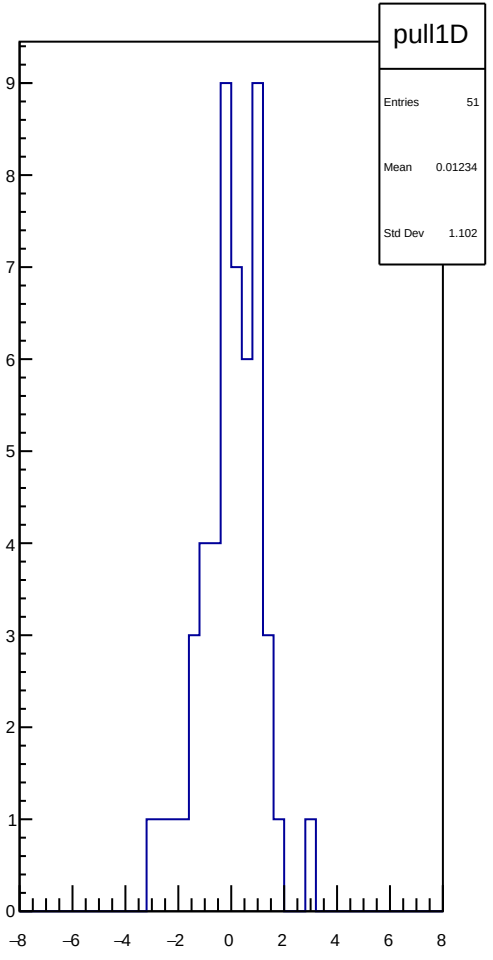

reg_asym_left_avg_rms vs run
χ² / ndf 2415 / 50
p0 2102 ± 2.074
2500
2400
2300
2200
2100
2000
1900
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

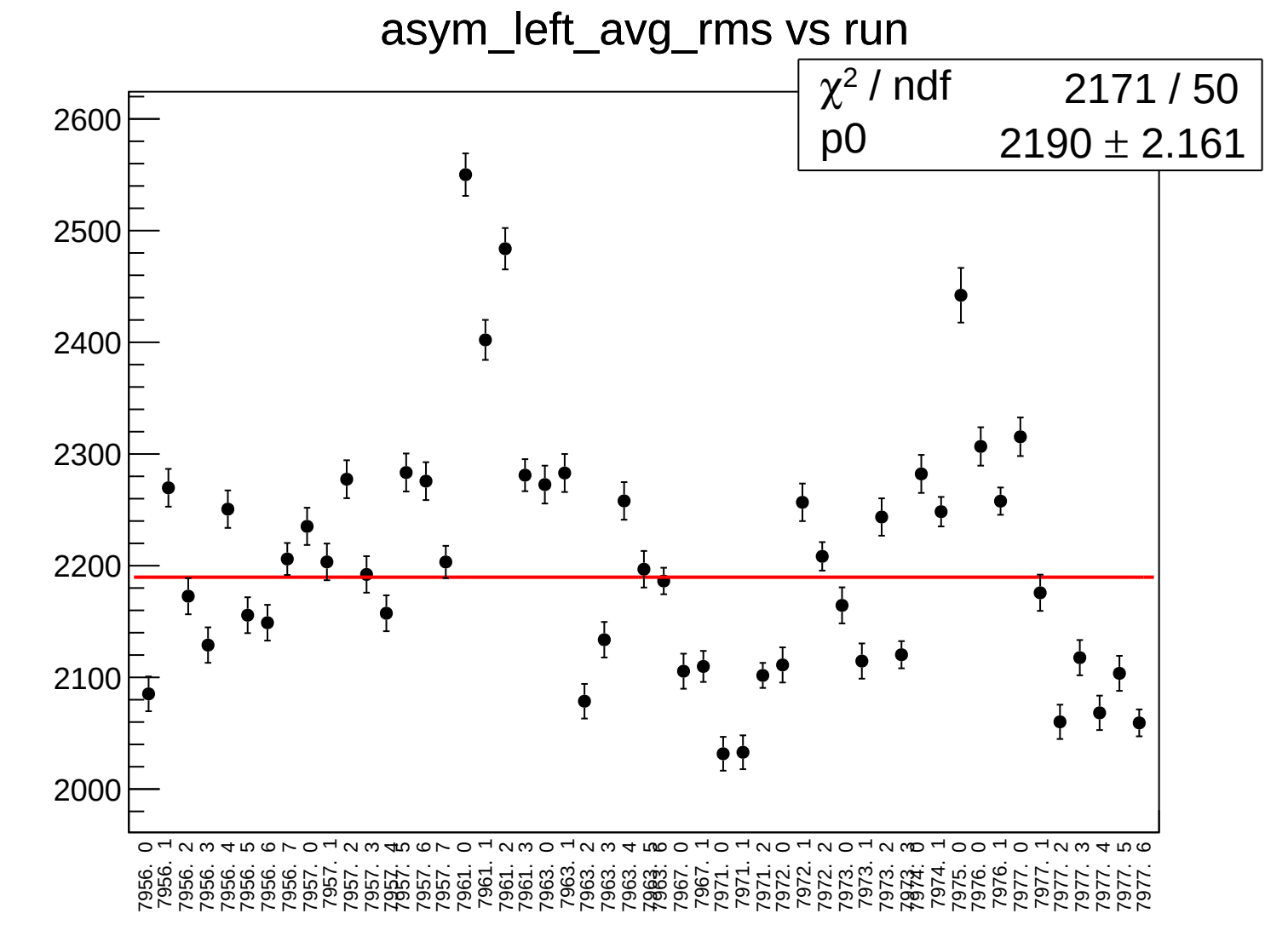

asym_left_avg_correction_mean vs run
χ² / ndf 57.6 / 50
p0 466.9 ± 849.4
pull
Entries 51
Mean −50.69
Std Dev 46.49

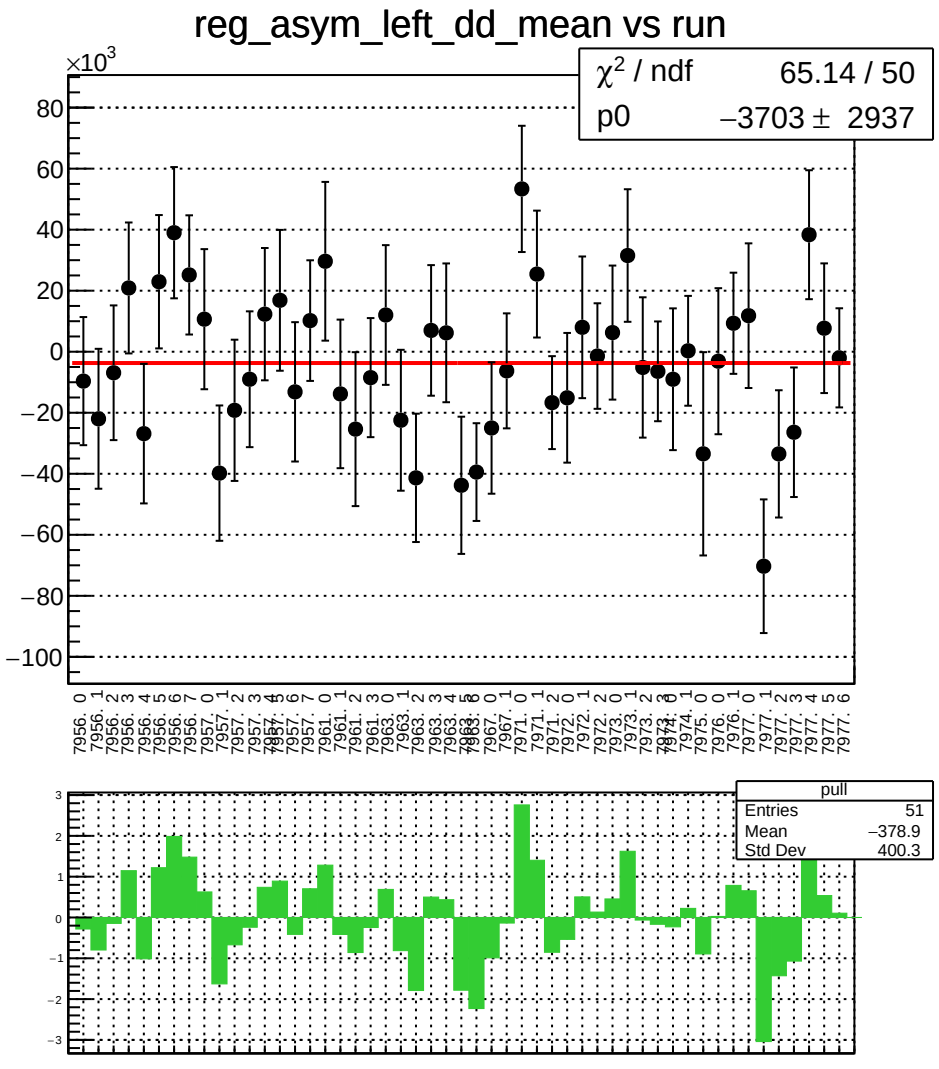

pull1D
Entries 51
Mean −0.008342
Std Dev 1.063

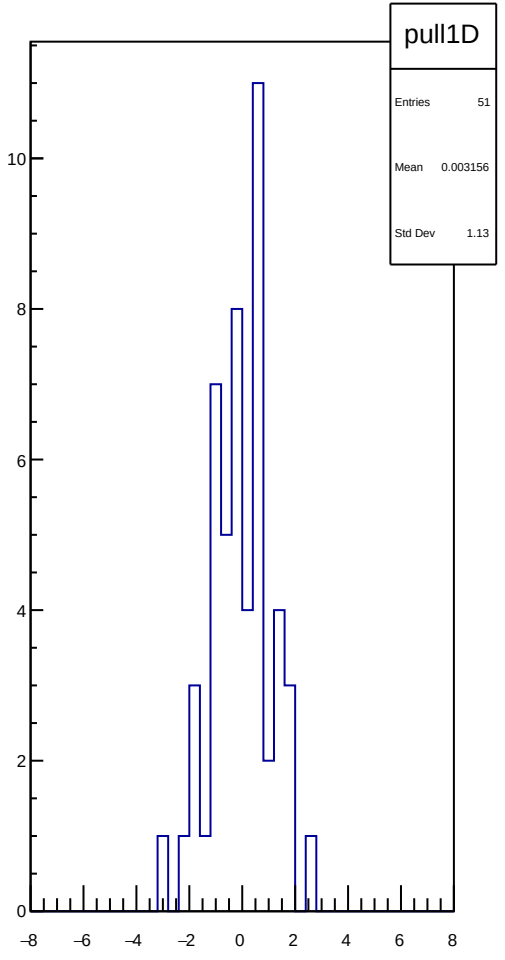

asym_left_avg_correction_rms vs run
χ² / ndf 3863 / 50
p0 608.2 ± 0.6006
700
680
660
640
620
600
580
560
540
520
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

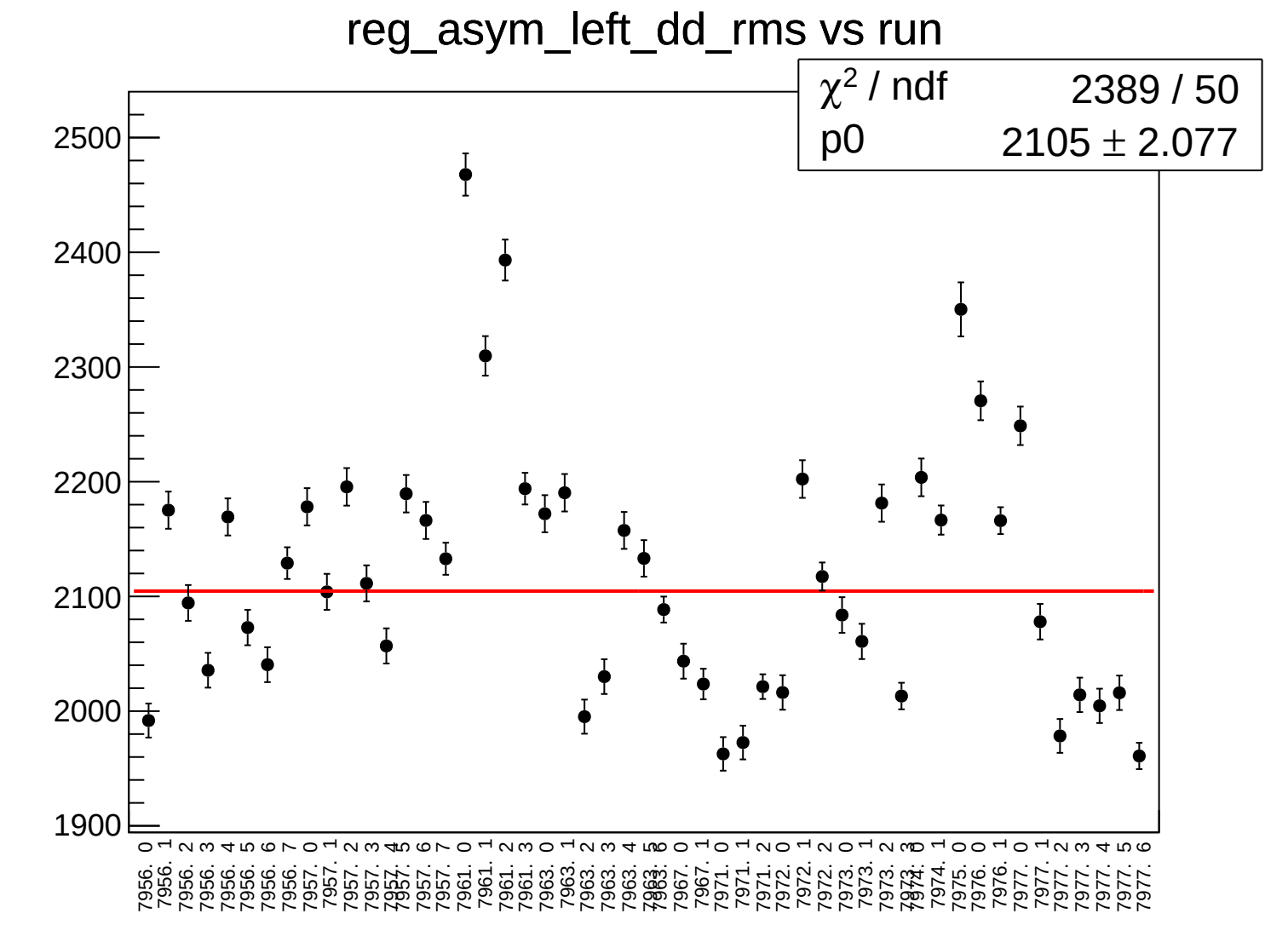

asym_left_avg_mean vs run
×10^3
χ² / ndf 62 / 50
p0 287.9 ± 3056
100
50
0
−50
−100
pull
Entries 51
Mean 104.8
Std Dev 81.29
3
2
1
0
−1
−2
−3

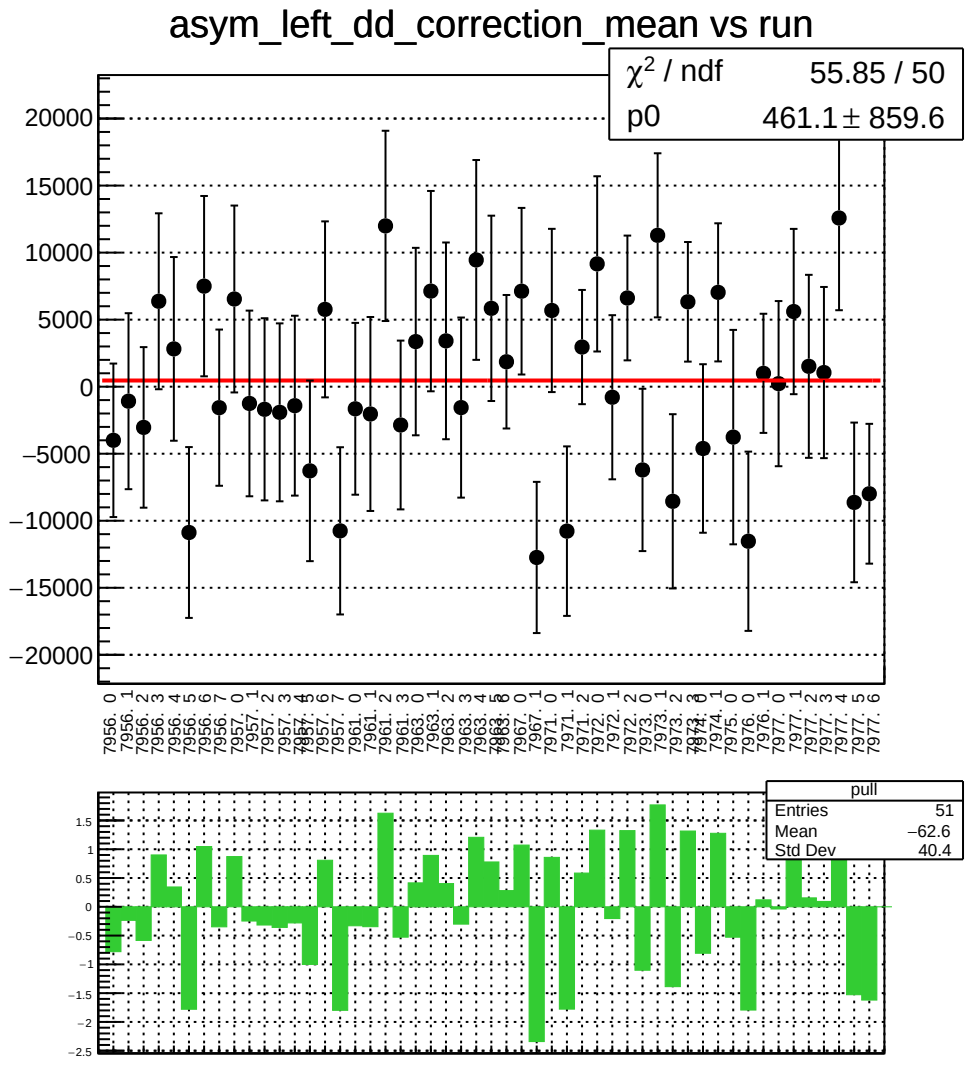

pull1D
Entries 51
Mean 0.01234
Std Dev 1.102
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

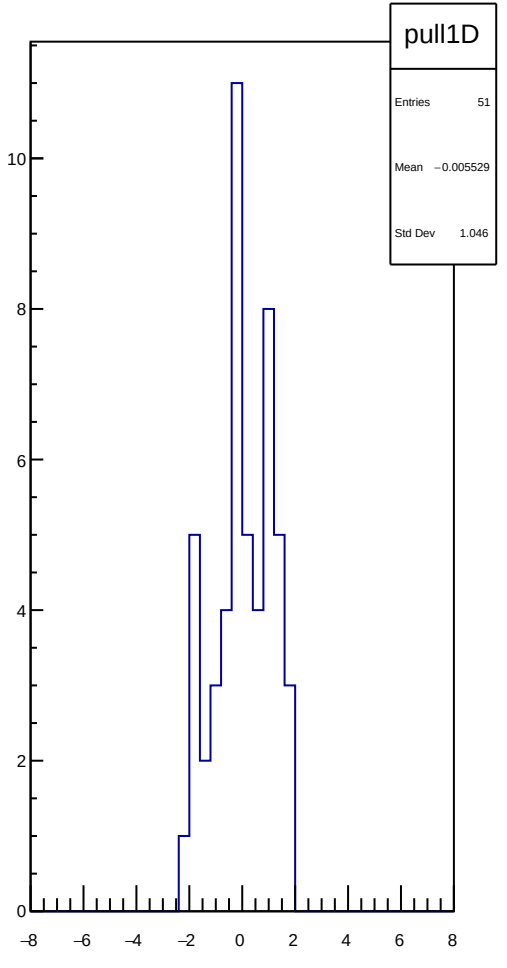

asym_left_avg_rms vs run
χ² / ndf 2171 / 50
p0 2190 ± 2.161
2600
2500
2400
2300
2200
2100
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

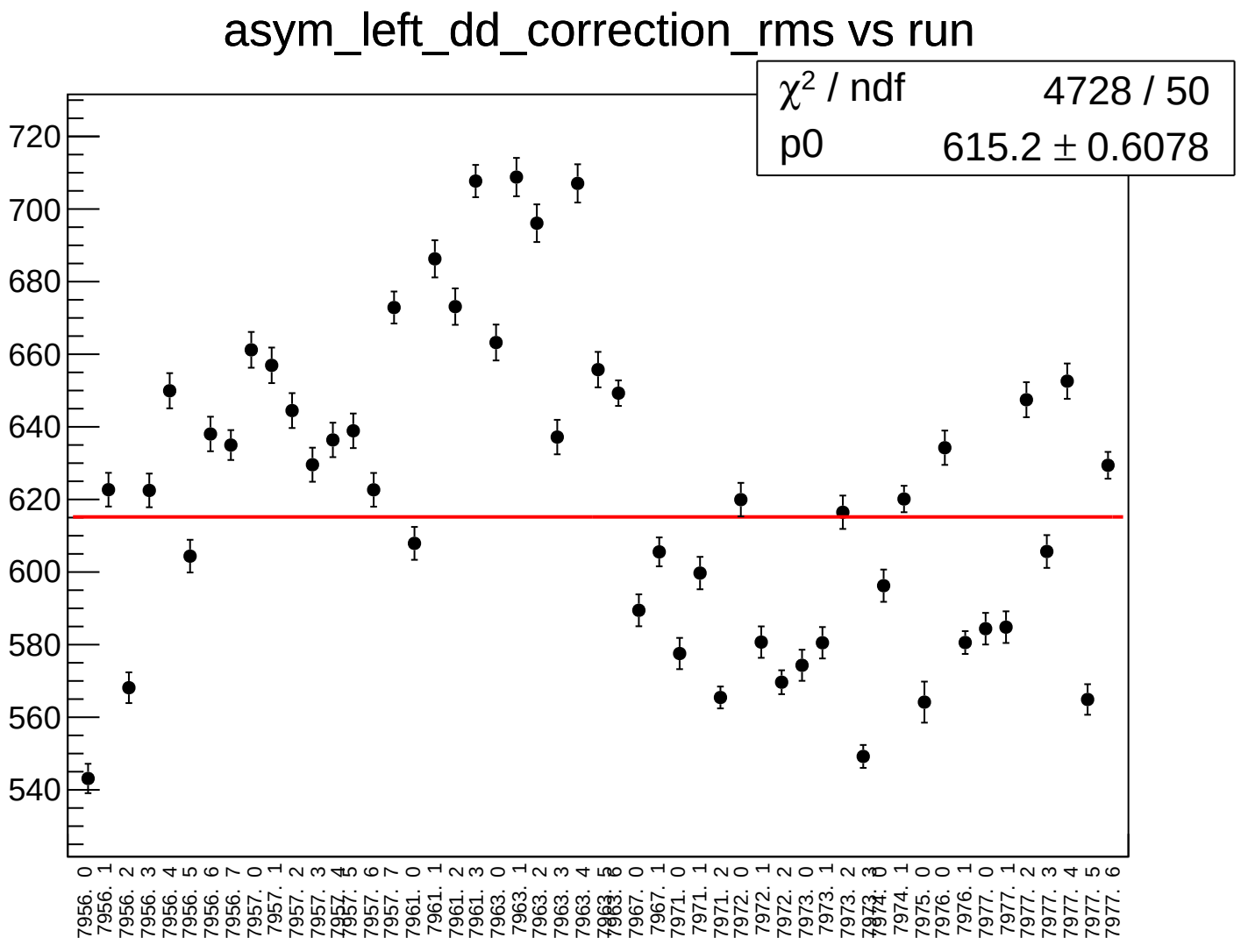

reg_asym_left_dd_mean vs run
×10^3
χ² / ndf 65.14 / 50
p0 −3703 ± 2937
pull
Entries 51
Mean −378.9
Std Dev 400.3

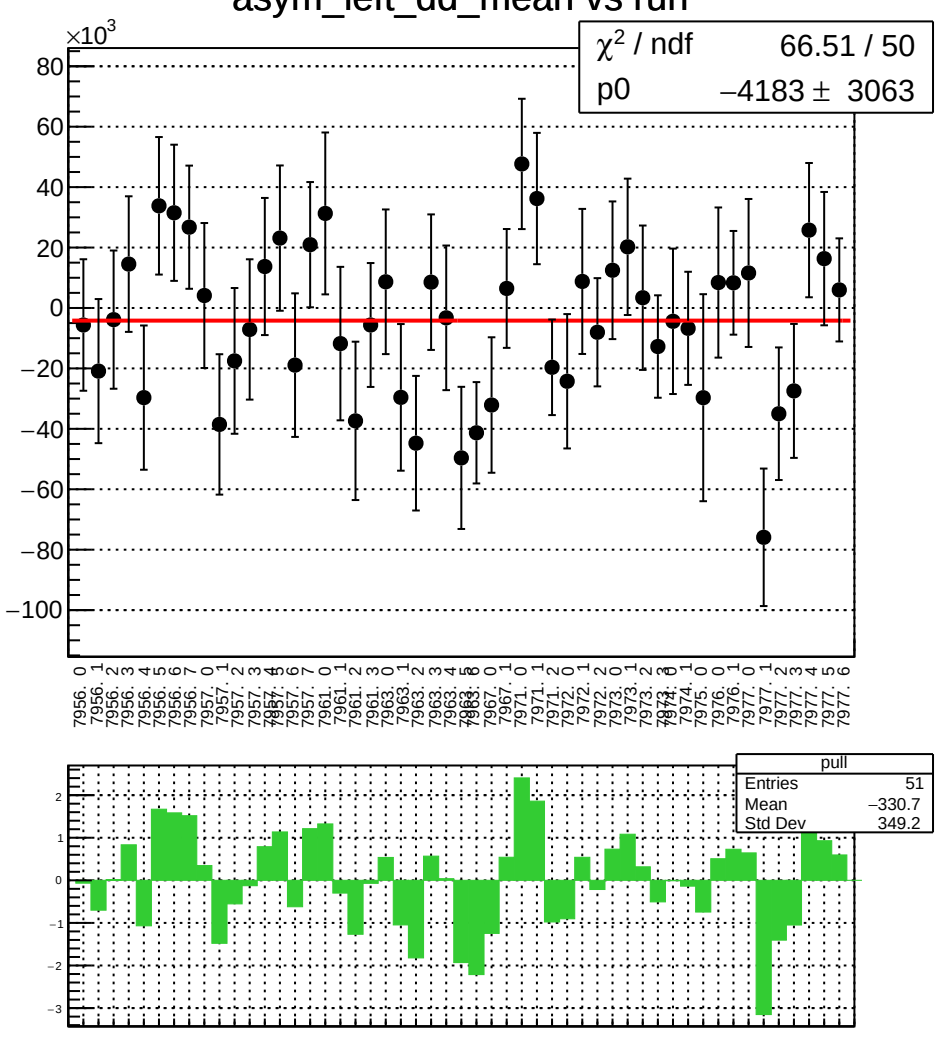

pull1D
Entries 51
Mean 0.003156
Std Dev 1.13

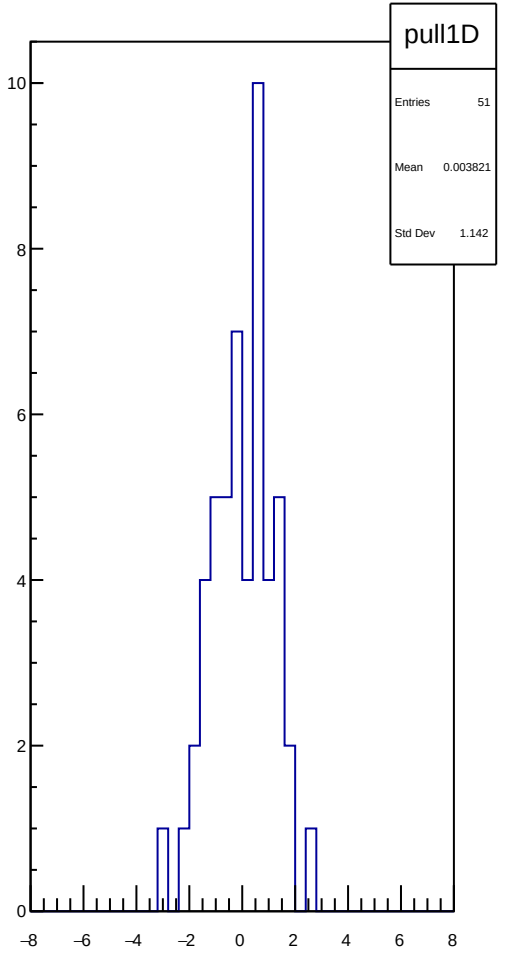

reg_asym_left_dd_rms vs run
χ^2 / ndf 2389 / 50
p0 2105 ± 2.077
2500
2400
2300
2200
2100
2000
1900
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

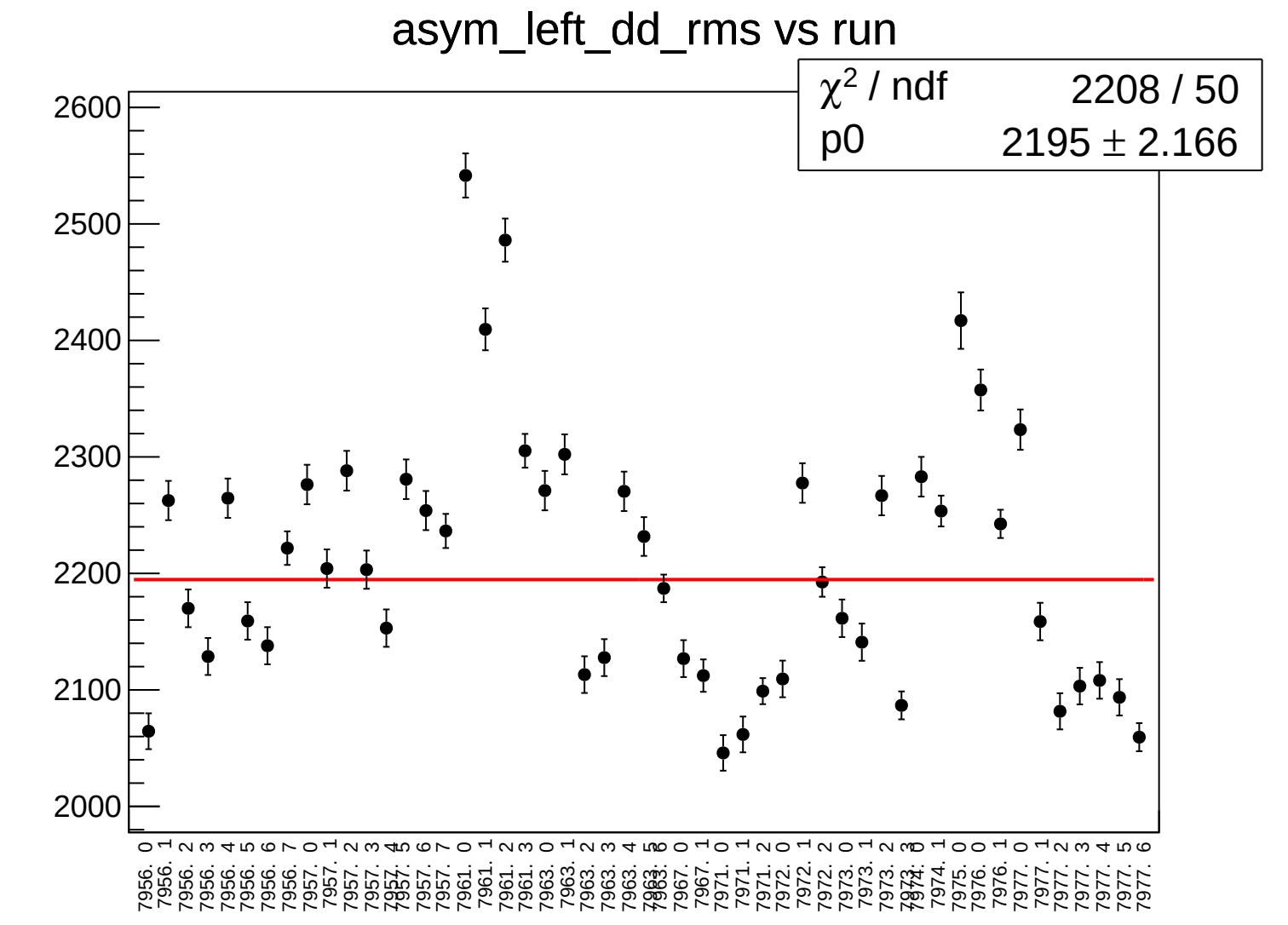

asym_left_dd_correction_mean vs run
χ² / ndf 55.85 / 50
p0 461.1 ± 859.6
pull
Entries 51
Mean −62.6
Std Dev 40.4

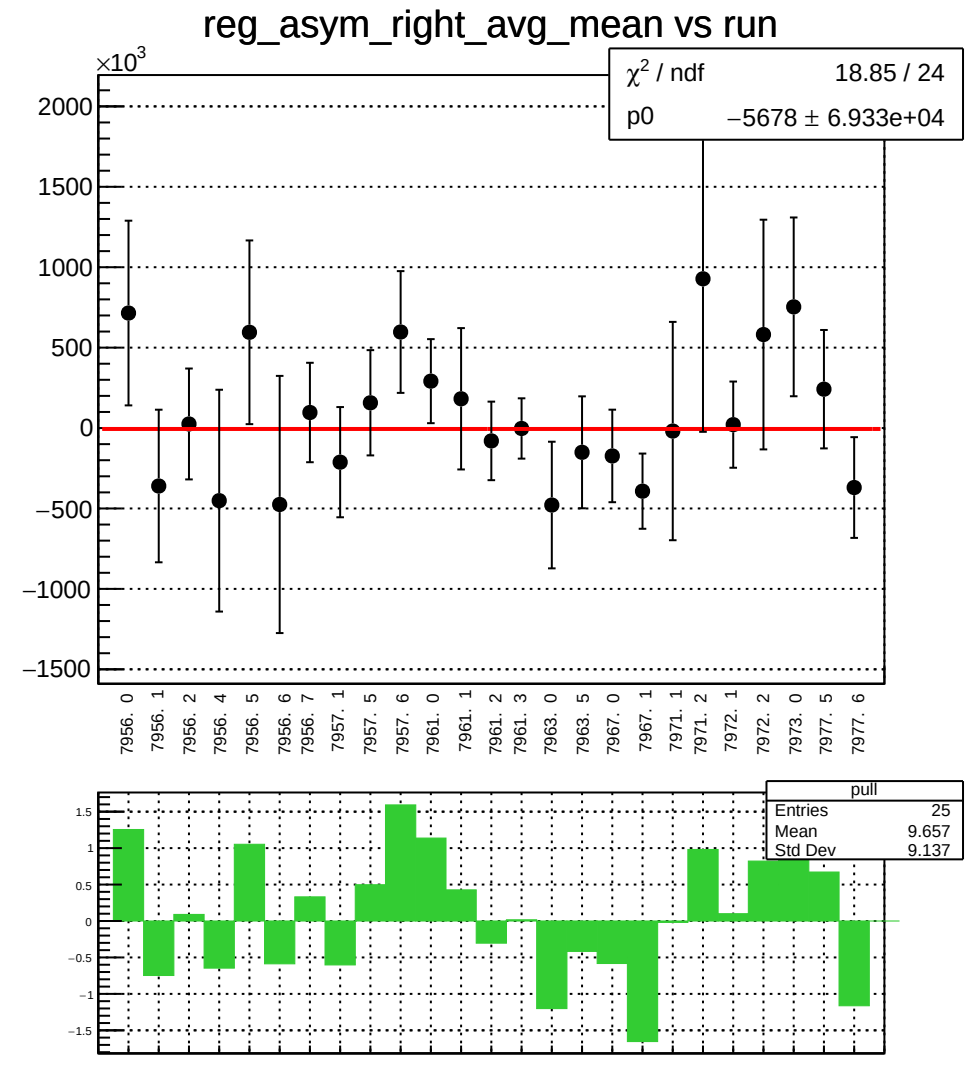

pull1D
Entries 51
Mean −0.005529
Std Dev 1.046

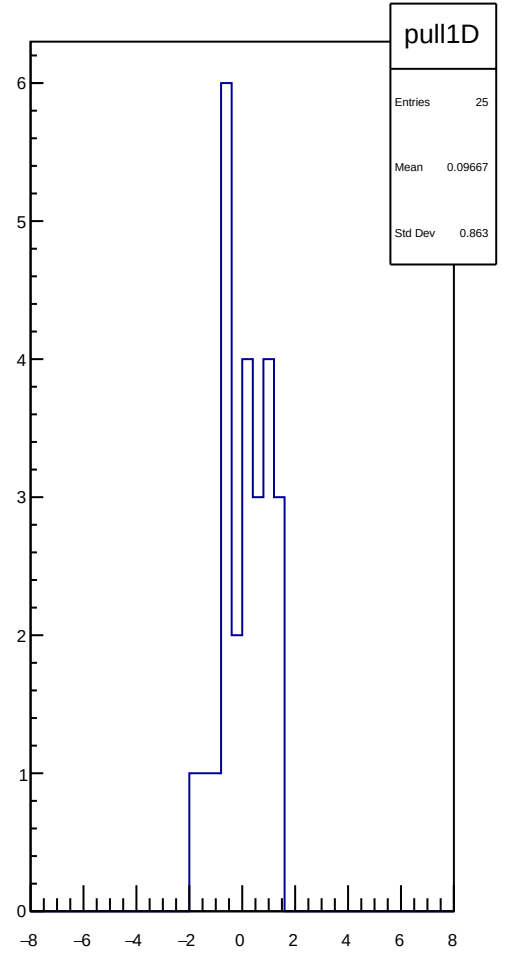

asym_left_dd_correction_rms vs run
χ² / ndf 4728 / 50
p0 615.2 ± 0.6078
720
700
680
660
640
620
600
580
560
540
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

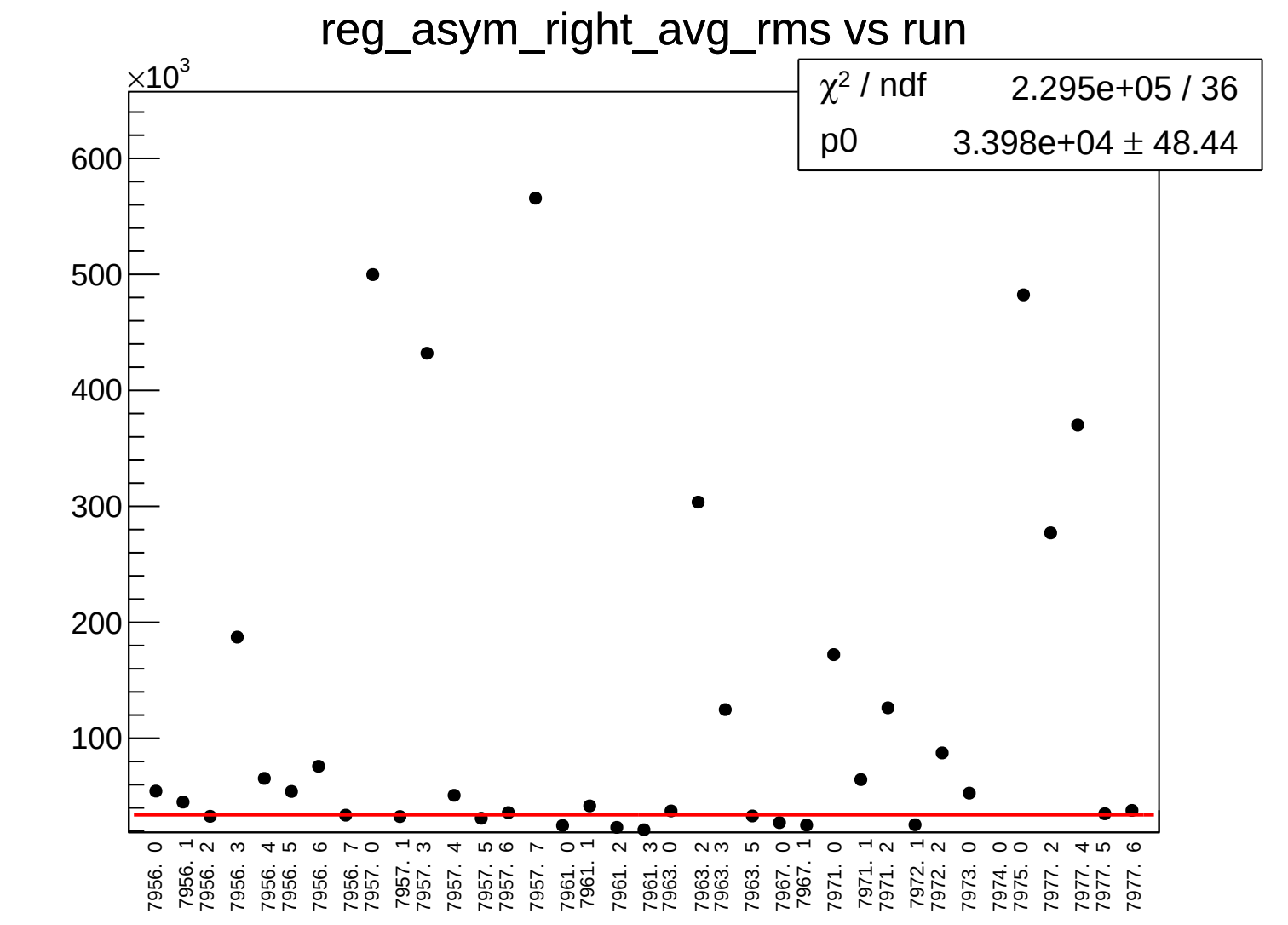

asym_left_dd_mean vs run
×10^3
χ² / ndf 66.51 / 50
p0 −4183 ± 3063
pull
Entries 51
Mean −330.7
Std Dev 349.2

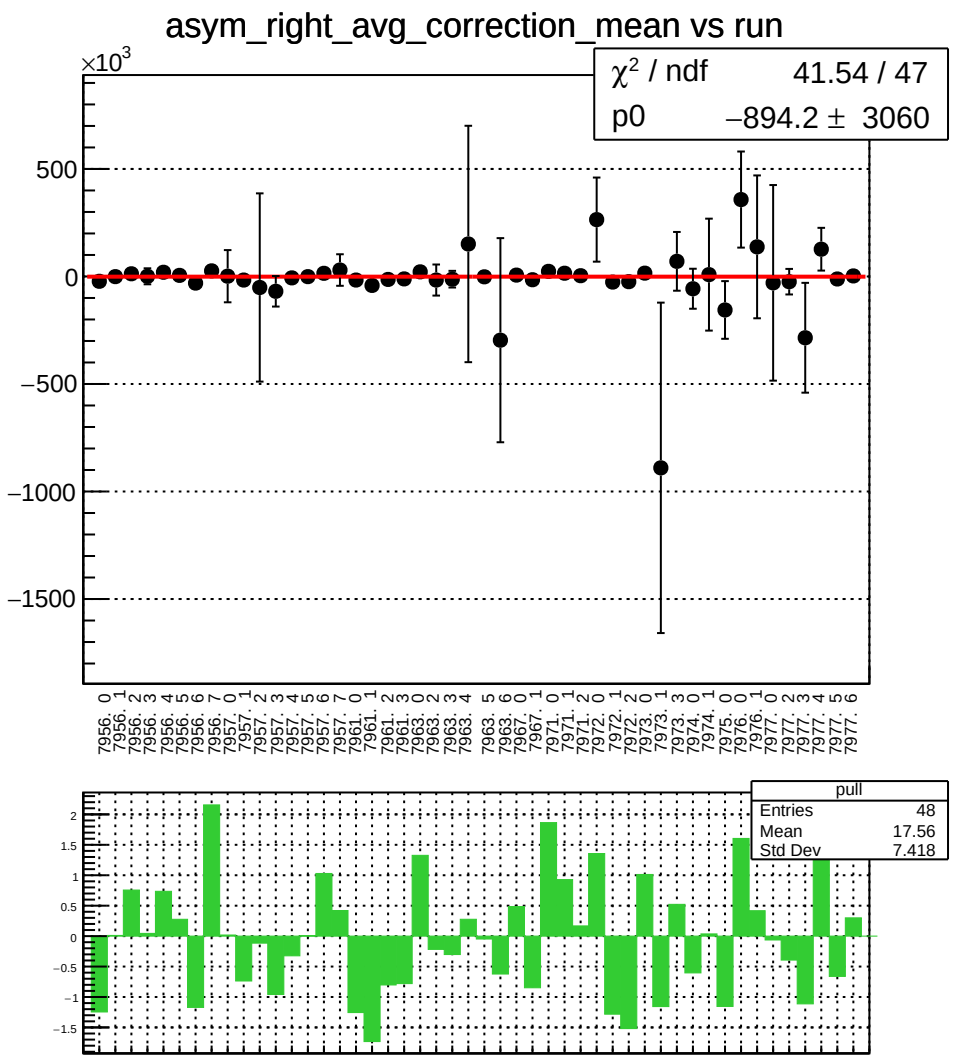

pull1D
Entries 51
Mean 0.003821
Std Dev 1.142

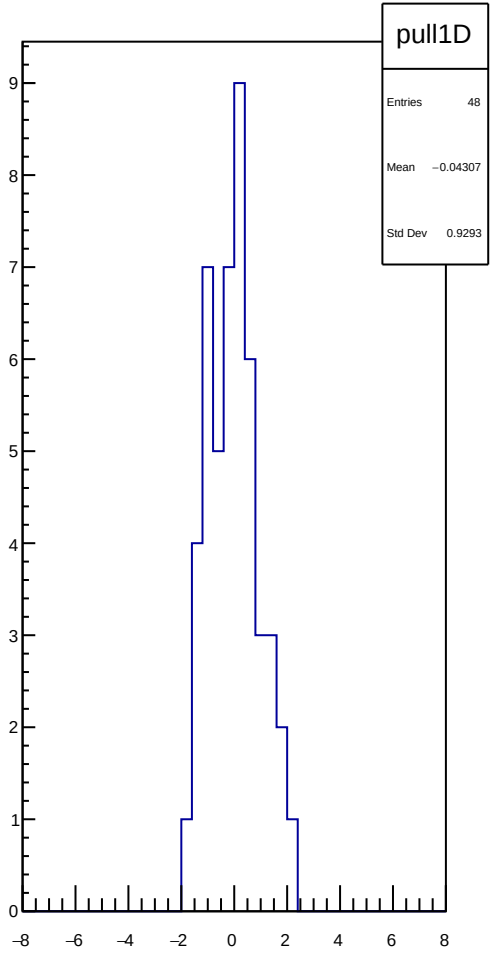

asym_left_dd_rms vs run
χ² / ndf 2208 / 50
p0 2195 ± 2.166
2600
2500
2400
2300
2200
2100
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

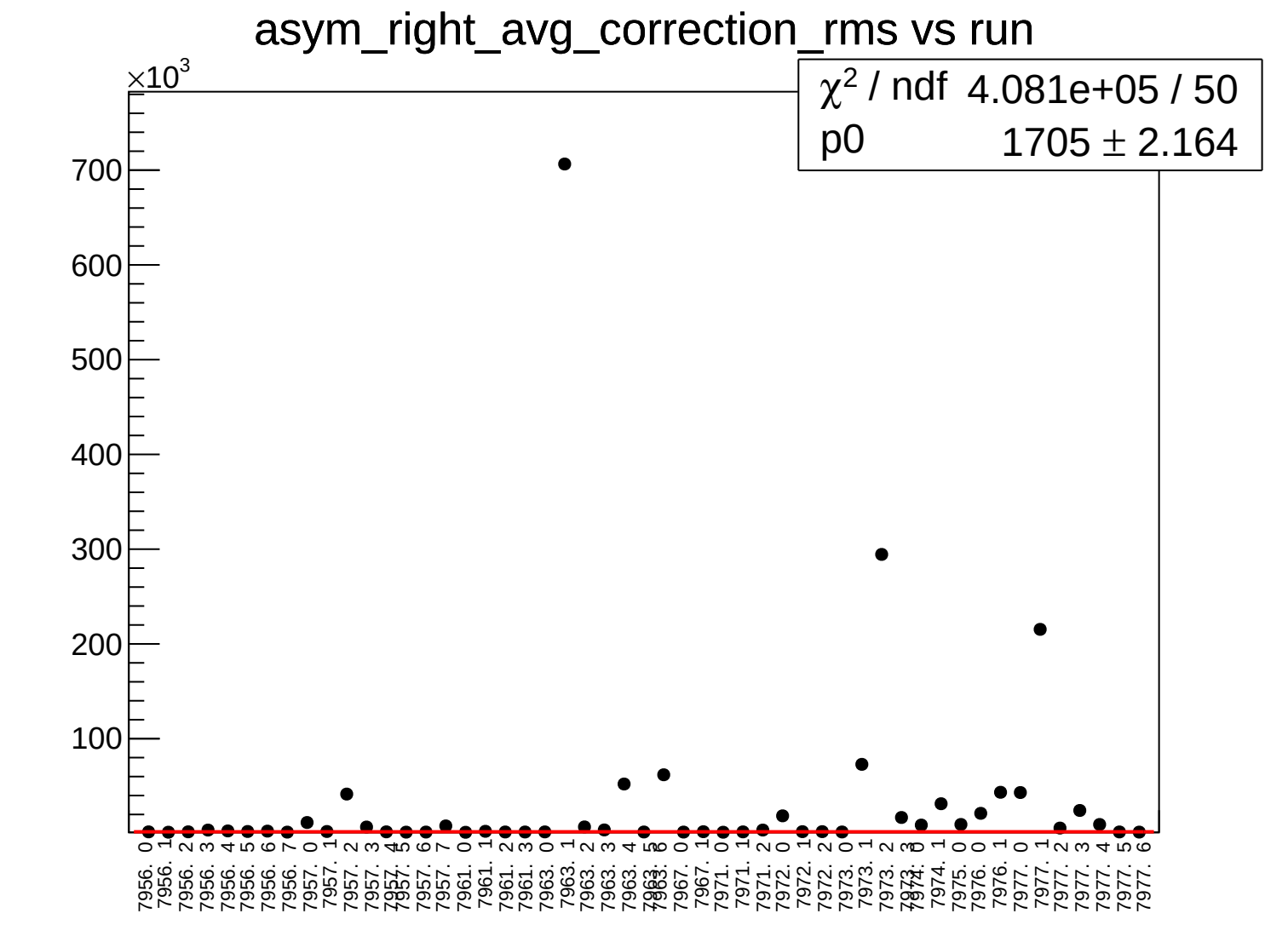

reg_asym_right_avg_mean vs run
×10^3
χ² / ndf 18.85 / 24
p0 −5678 ± 6.933e+04
2000
1500
1000
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.657
Std Dev 9.137
1.5
1
0.5
0
−0.5
−1
−1.5

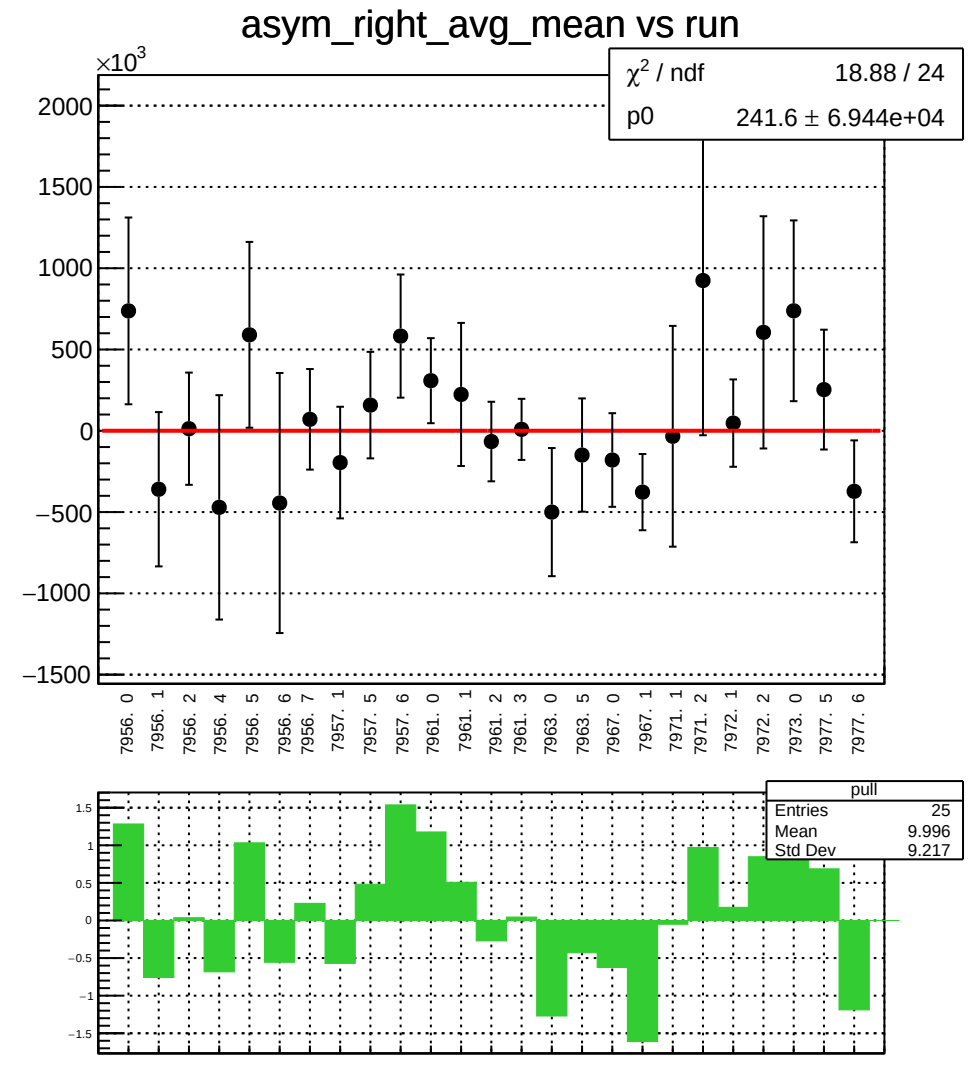

pull1D
Entries 25
Mean 0.09667
Std Dev 0.863
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

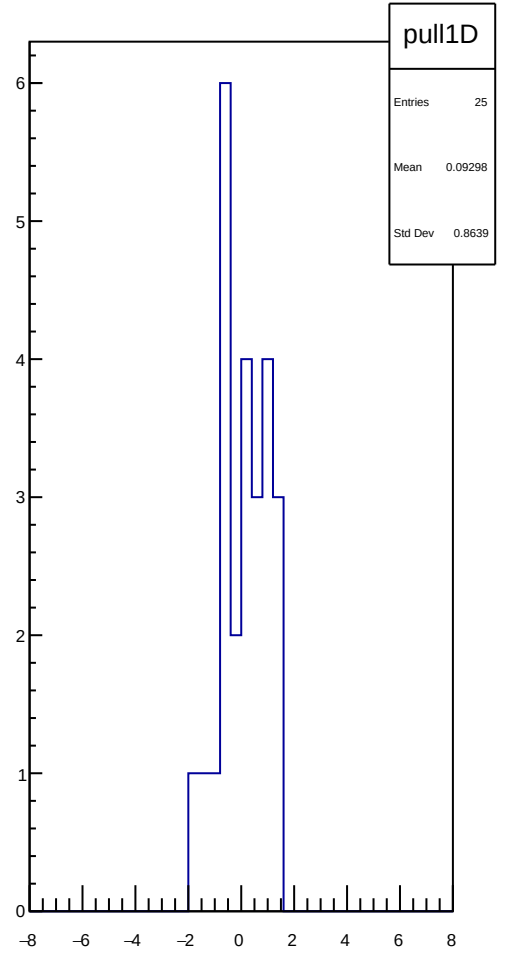

reg_asym_right_avg_rms vs run
×10^3
χ² / ndf 2.295e+05 / 36
p0 3.398e+04 ± 48.44
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

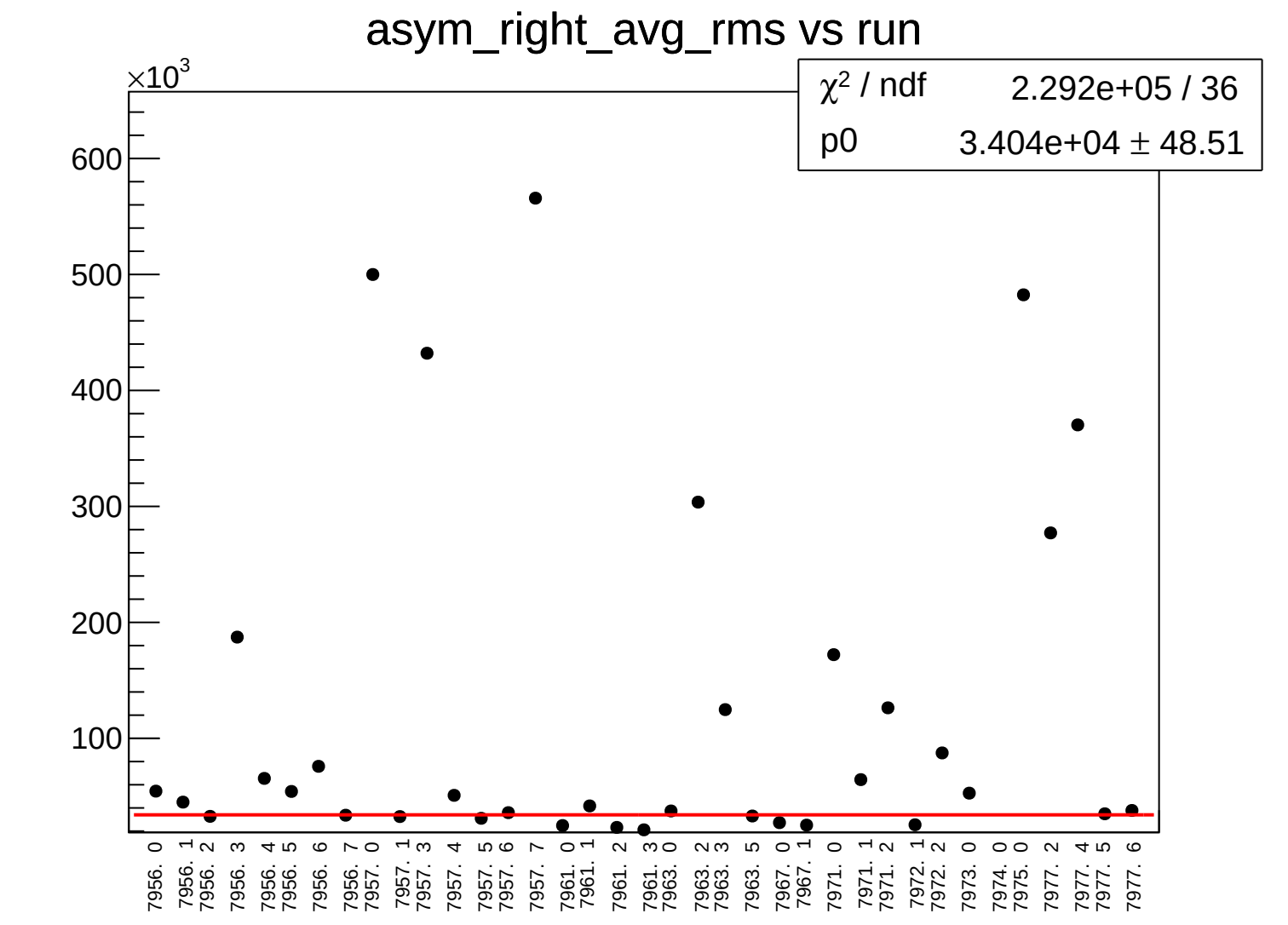

asym_right_avg_correction_mean vs run
×10^3
χ² / ndf 41.54 / 47
p0 −894.2 ± 3060
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 48
Mean 17.56
Std Dev 7.418
2
1.5
1
0.5
0
−0.5
−1
−1.5

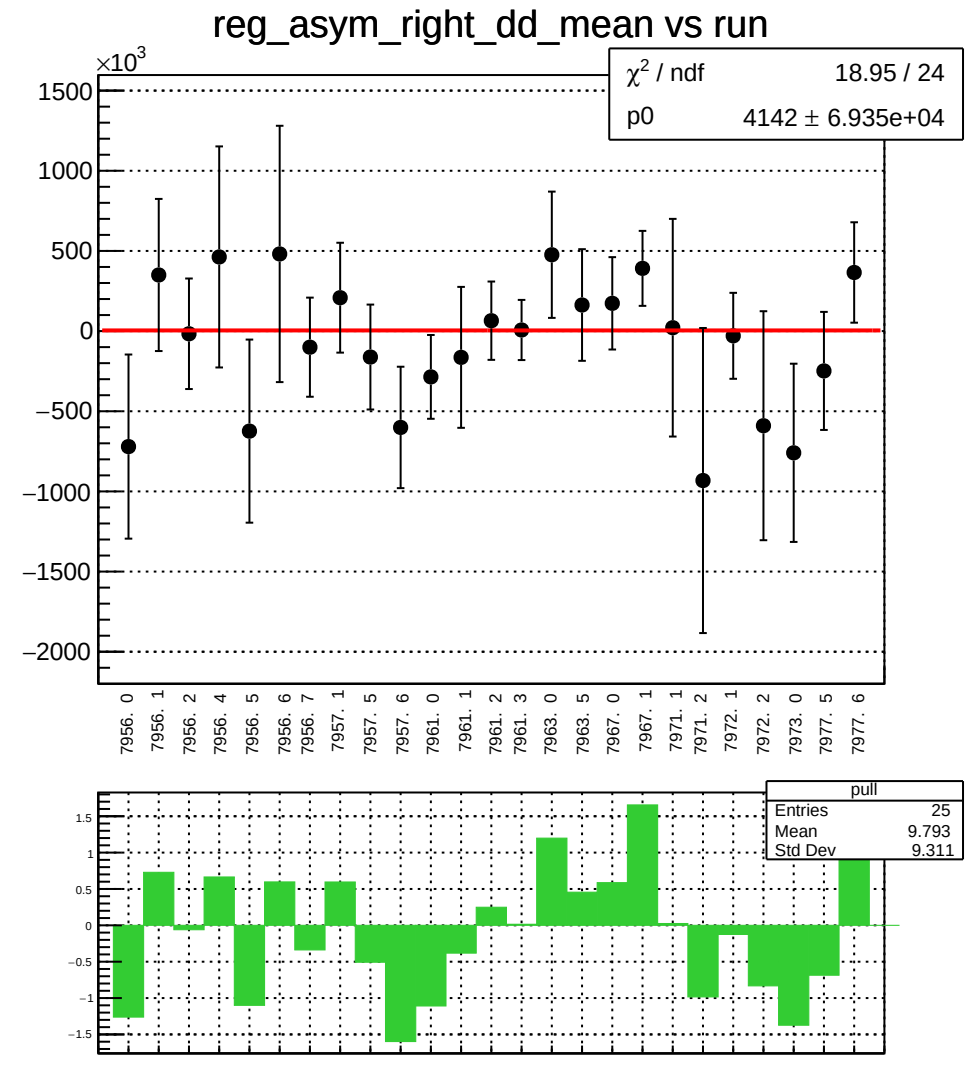

pull1D
Entries 48
Mean −0.04307
Std Dev 0.9293
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

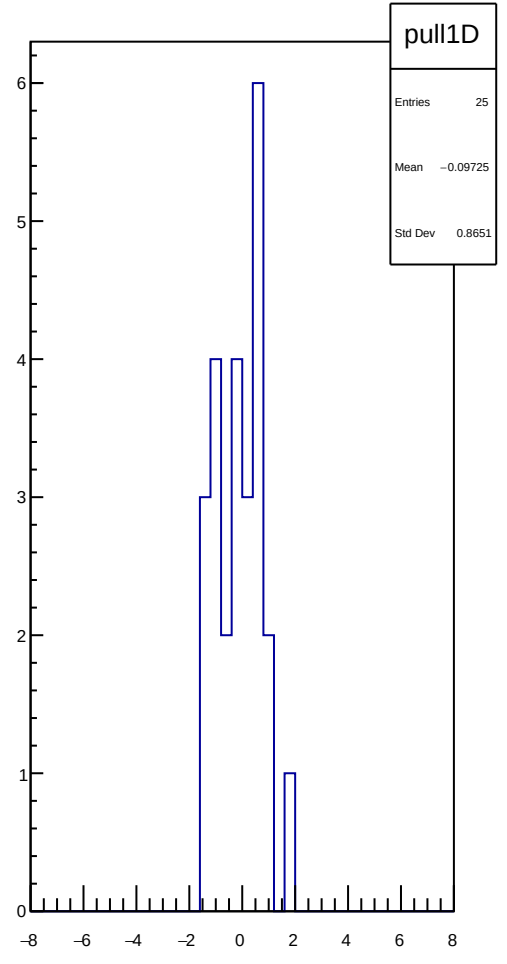

asym_right_avg_correction_rms vs run
×10^3
χ^2 / ndf 4.081e+05 / 50
p0 1705 ± 2.164
700
600
500
400
300
200
100

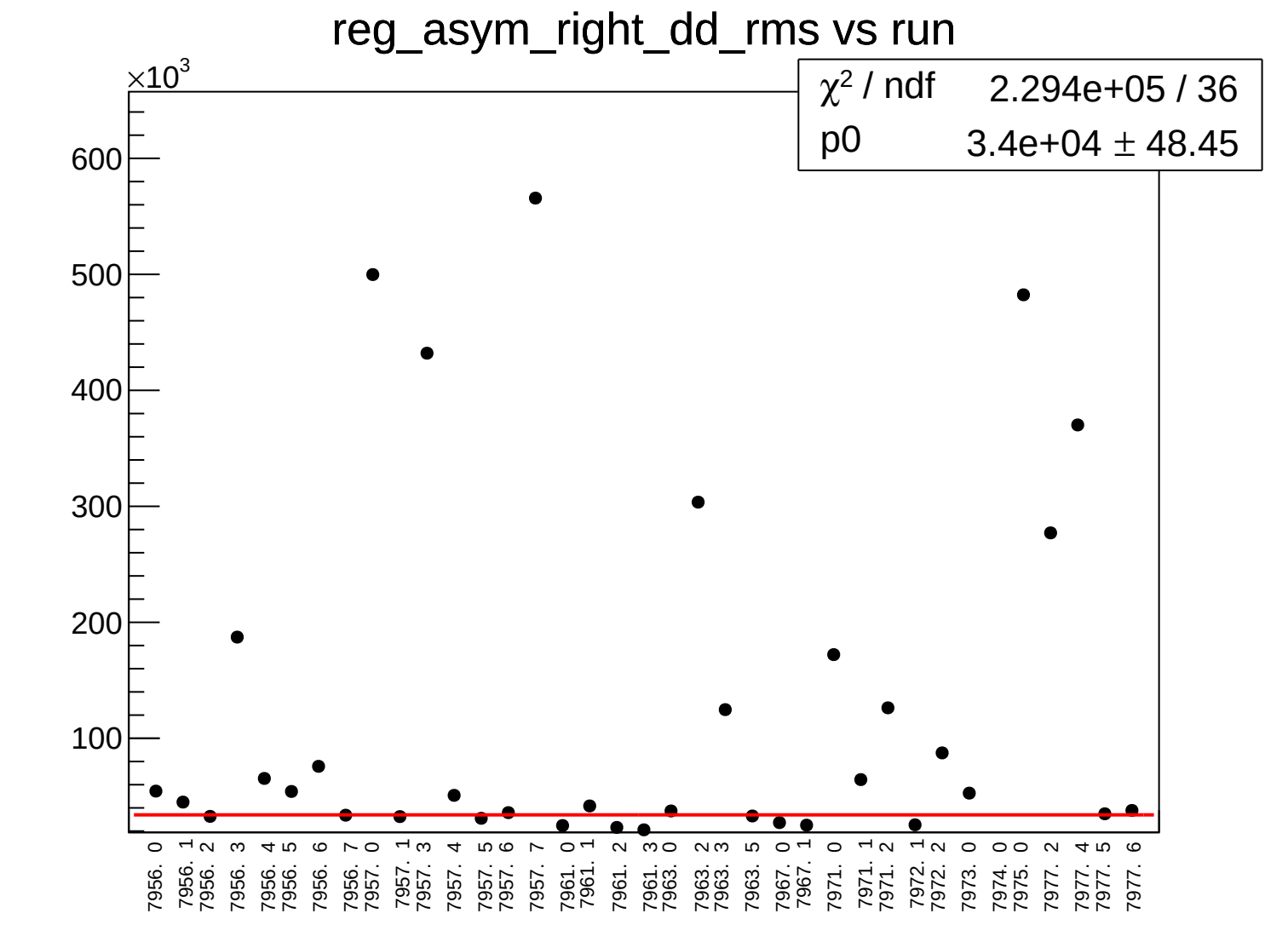

asym_right_avg_mean vs run
×10^3
χ² / ndf 18.88 / 24
p0 241.6 ± 6.944e+04
2000
1500
1000
500
0
−500
−1000
−1500
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.996
Std Dev 9.217
1.5
1
0.5
0
−0.5
−1
−1.5

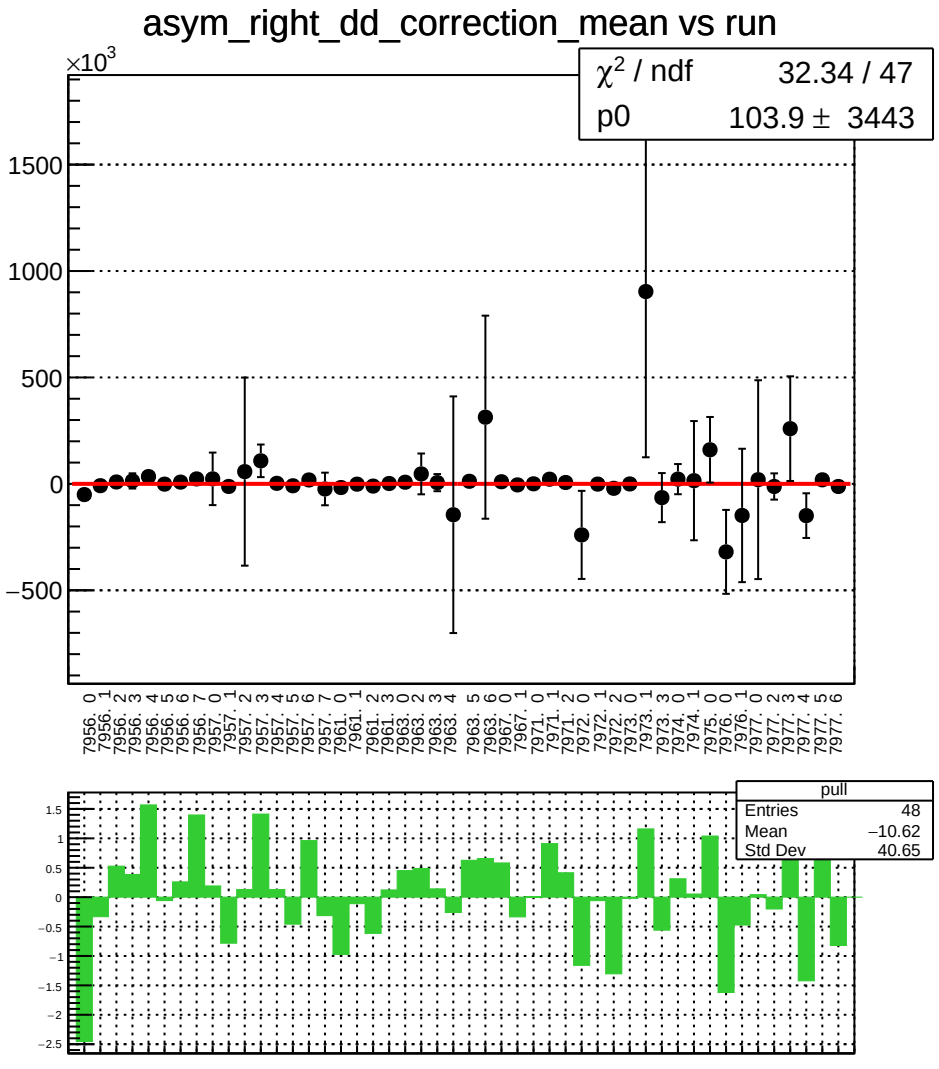

pull1D
Entries 25
Mean 0.09298
Std Dev 0.8639
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

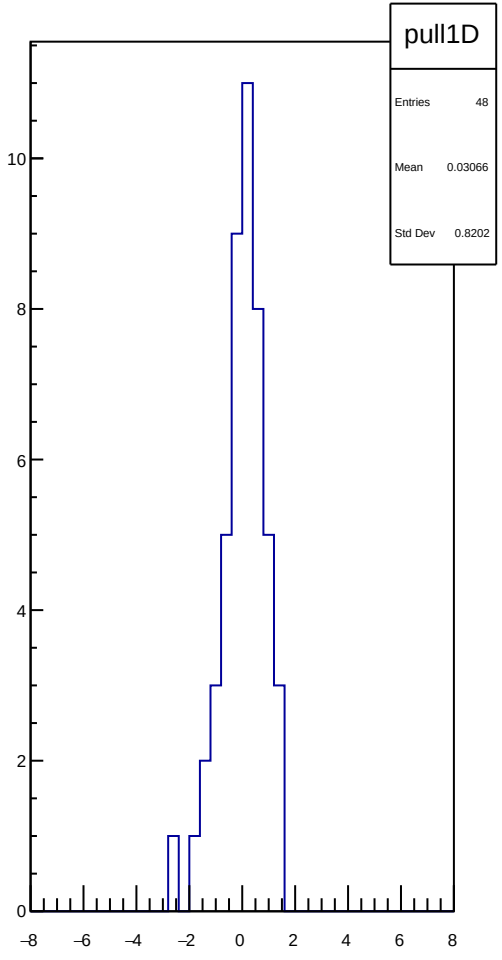

asym_right_avg_rms vs run
×10^3
600
500
400
300
200
100
χ² / ndf 2.292e+05 / 36
p0 3.404e+04 ± 48.51
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

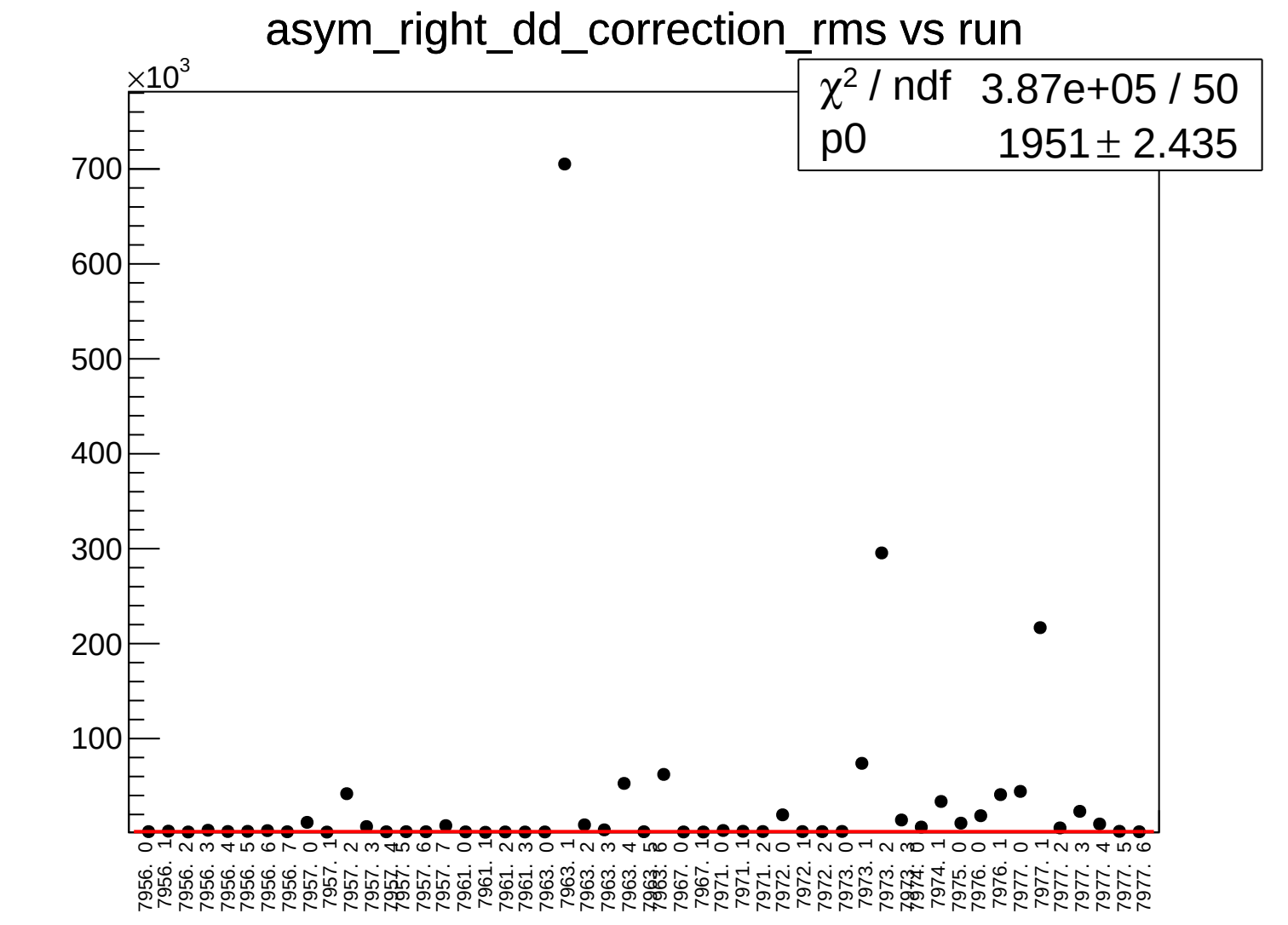

reg_asym_right_dd_mean vs run
×10^3
χ² / ndf 18.95 / 24
p0 4142 ± 6.935e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 9.793
Std Dev 9.311
1.5
1
0.5
0
−0.5
−1
−1.5

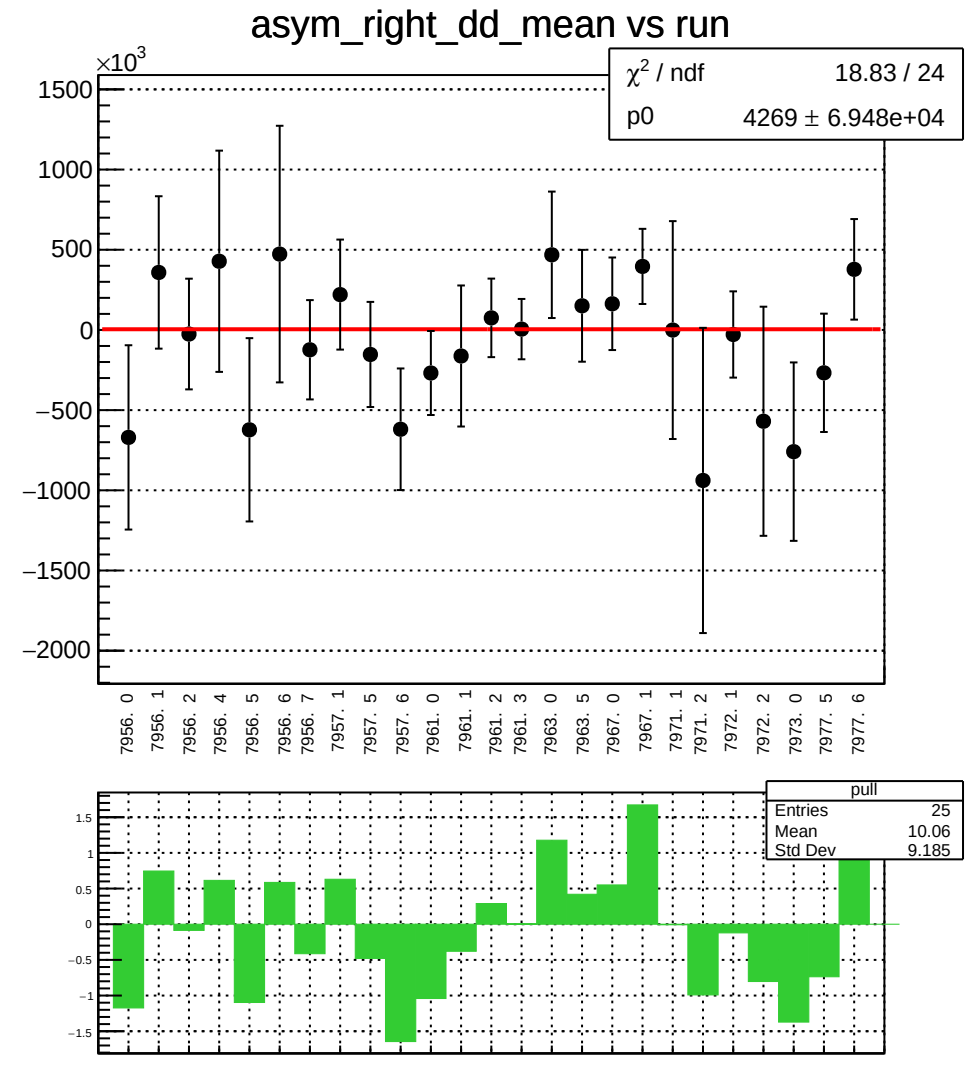

pull1D
Entries 25
Mean −0.09725
Std Dev 0.8651
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

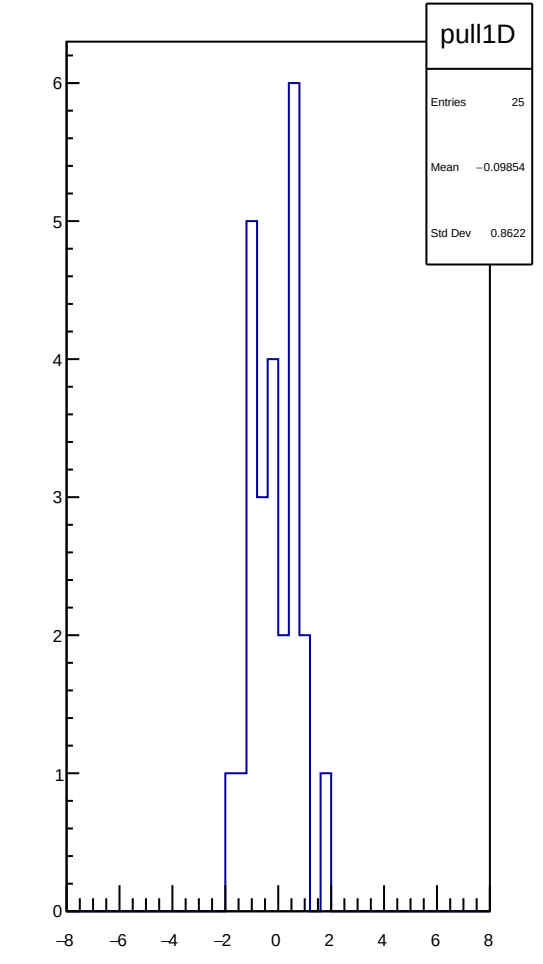

reg_asym_right_dd_rms vs run
×10^3
χ^2 / ndf 2.294e+05 / 36
p0 3.4e+04 ± 48.45
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

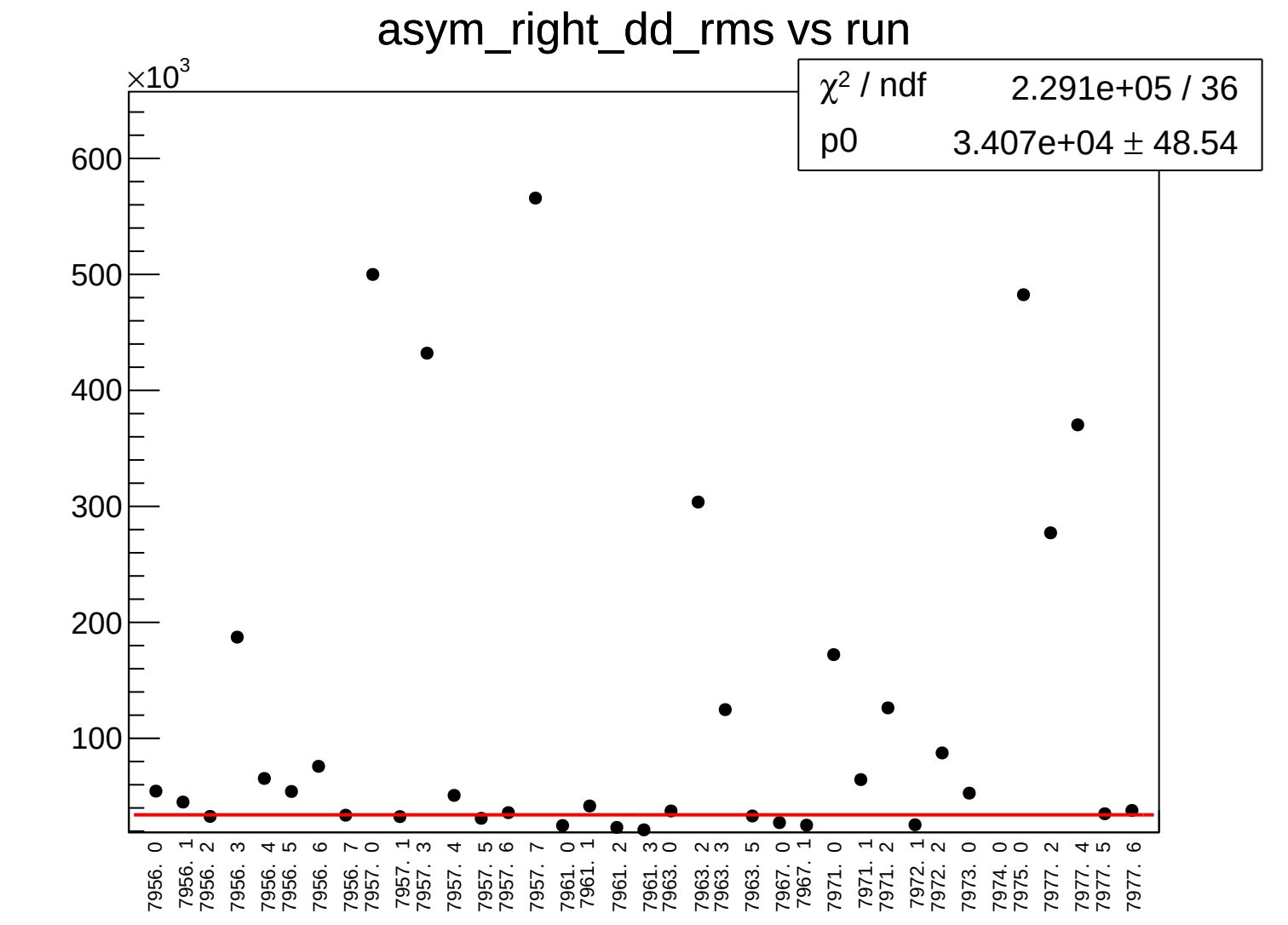

asym_right_dd_correction_mean vs run
×10^3
χ² / ndf 32.34 / 47
p0 103.9 ± 3443
1500
1000
500
0
−500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7963. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 48
Mean −10.62
Std Dev 40.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

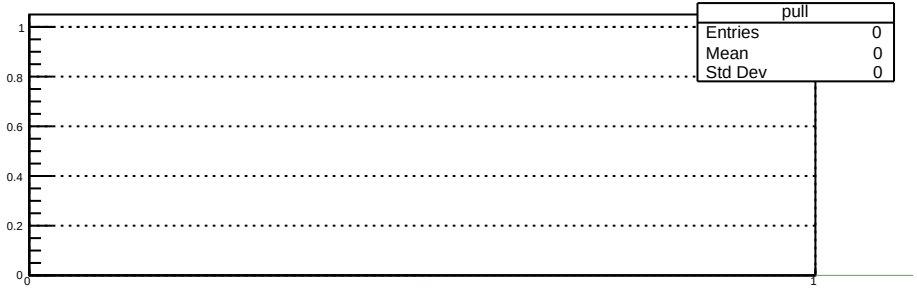

pull1D
Entries 48
Mean 0.03066
Std Dev 0.8202
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

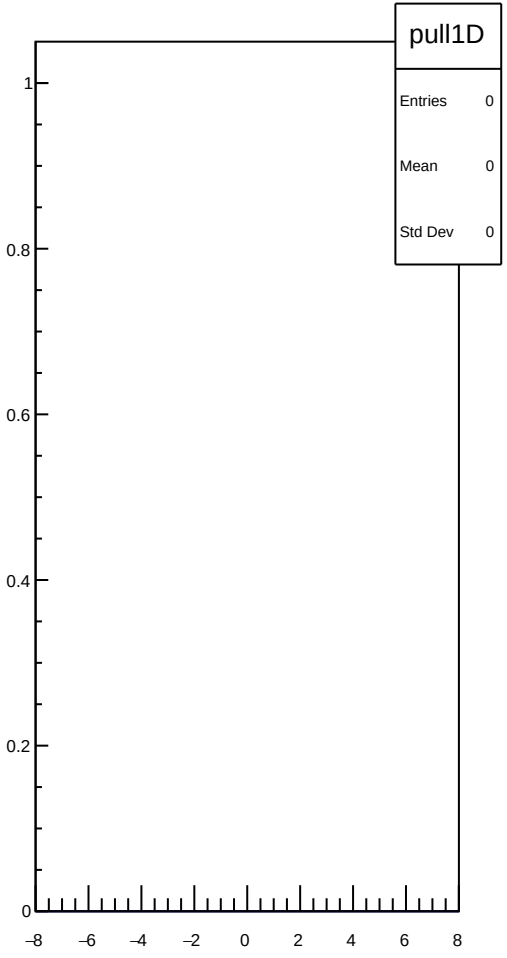

asym_right_dd_correction_rms vs run
×10^3
χ² / ndf 3.87e+05 / 50
p0 1951 ± 2.435
700
600
500
400
300
200
100

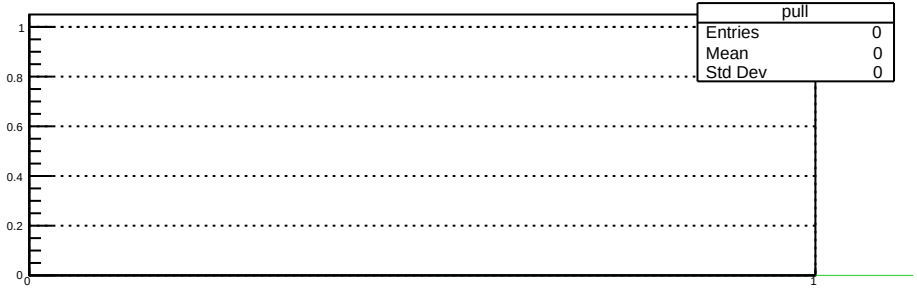

asym_right_dd_mean vs run
×10^3
χ² / ndf 18.83 / 24
p0 4269 ± 6.948e+04
1500
1000
500
0
−500
−1000
−1500
−2000
7956. 0
7956. 1
7956. 2
7956. 4
7956. 5
7956. 6
7956. 7
7957. 1
7957. 5
7957. 6
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 5
7967. 0
7967. 1
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7977. 5
7977. 6
pull
Entries 25
Mean 10.06
Std Dev 9.185
1.5
1
0.5
0
−0.5
−1
−1.5

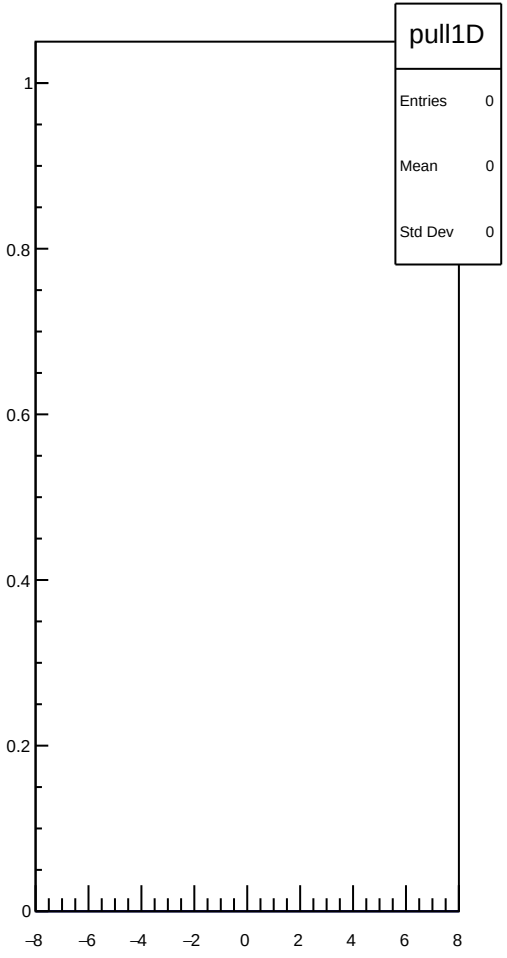

pull1D
Entries 25
Mean −0.09854
Std Dev 0.8622
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

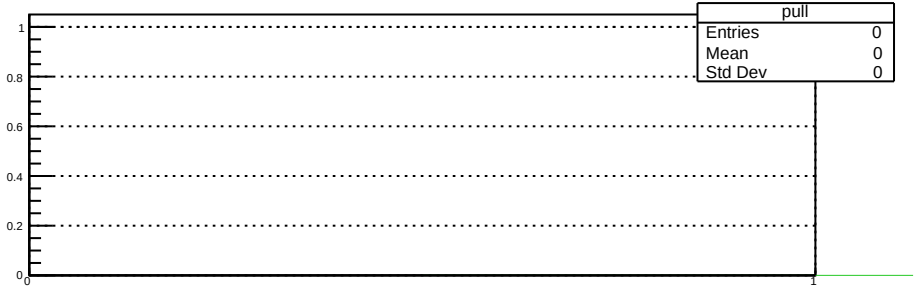

asym_right_dd_rms vs run
×10^3
χ² / ndf 2.291e+05 / 36
p0 3.407e+04 ± 48.54
600
500
400
300
200
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 2
7963. 3
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 1
7972. 2
7973. 0
7974. 0
7975. 0
7977. 2
7977. 4
7977. 5
7977. 6

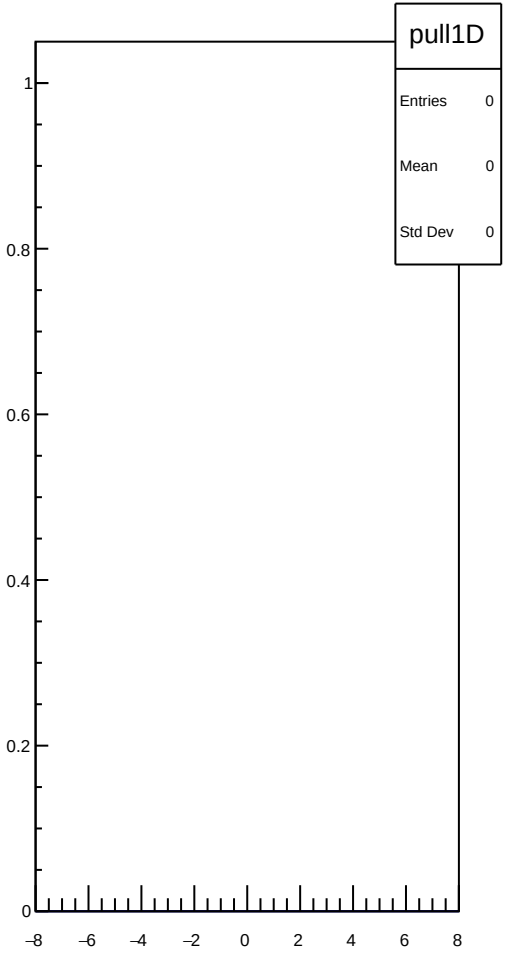

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

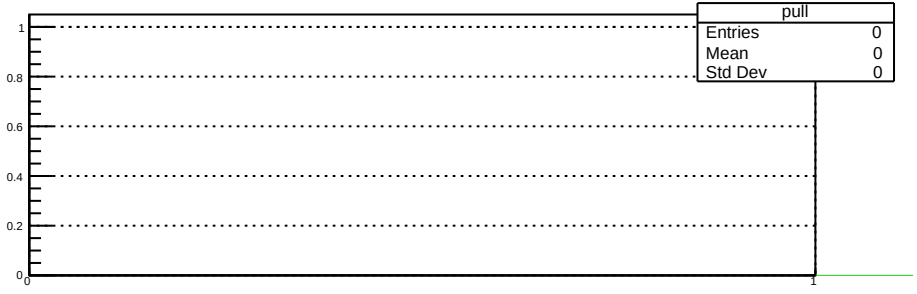

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

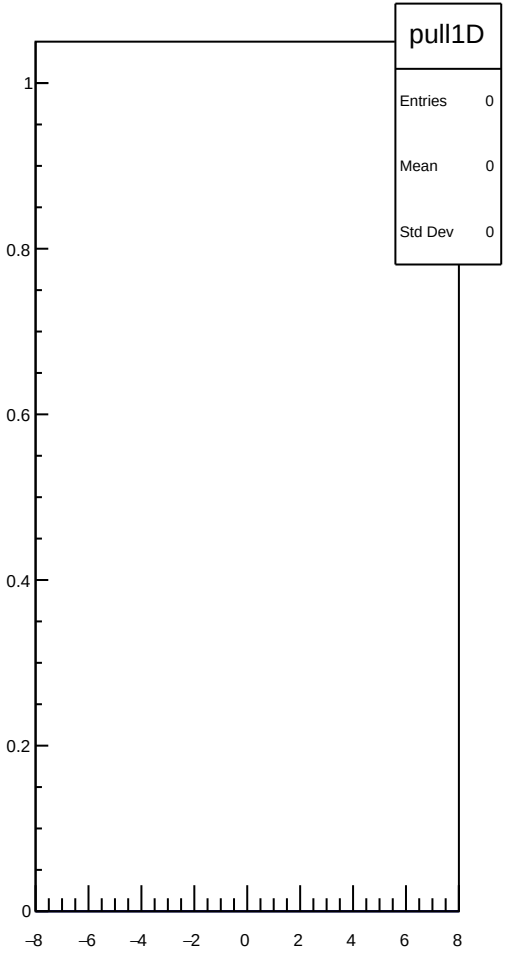

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

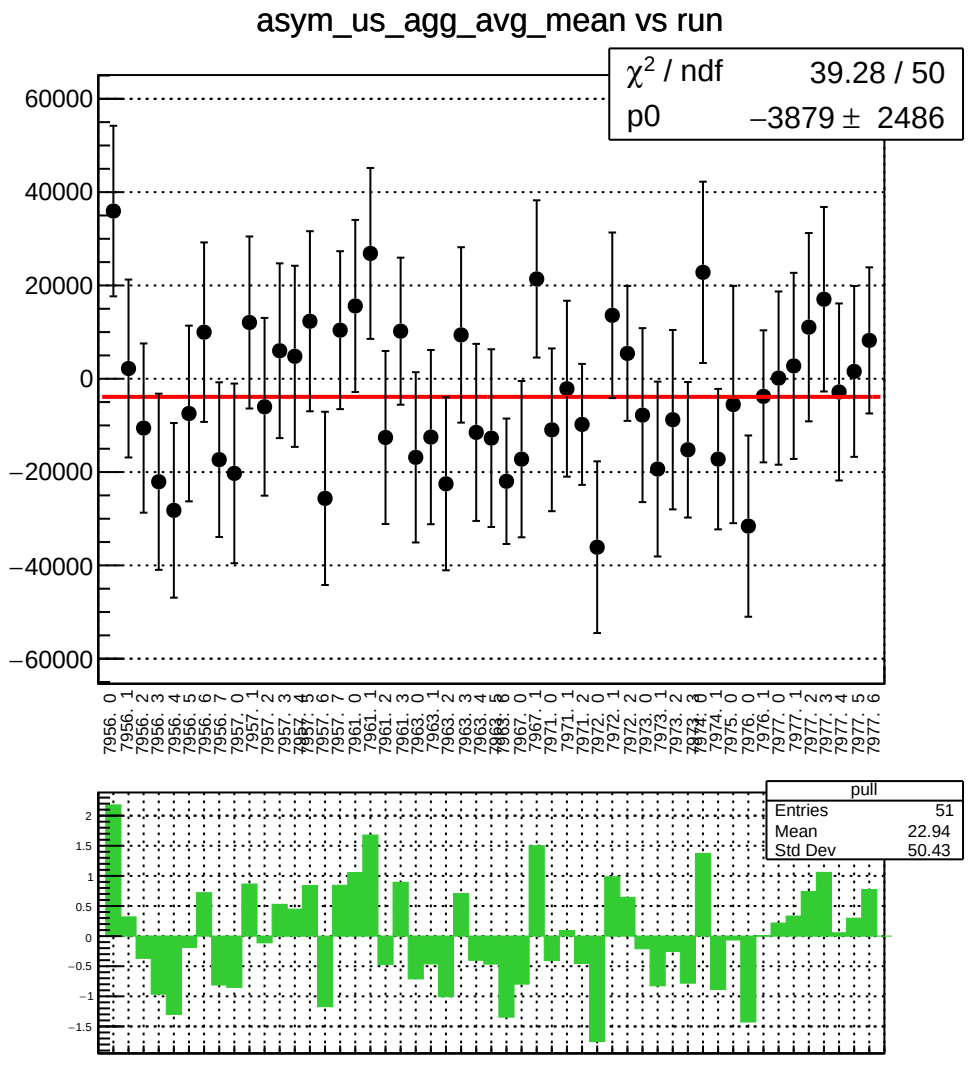

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

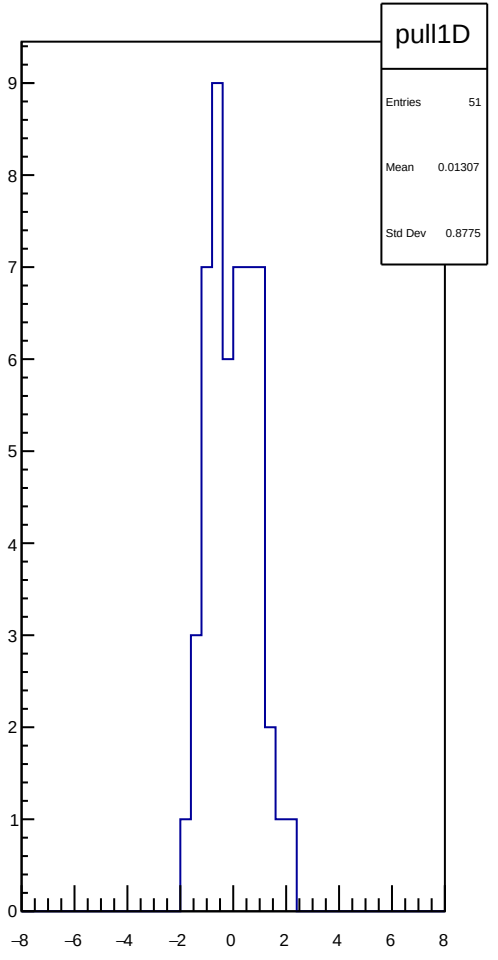

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

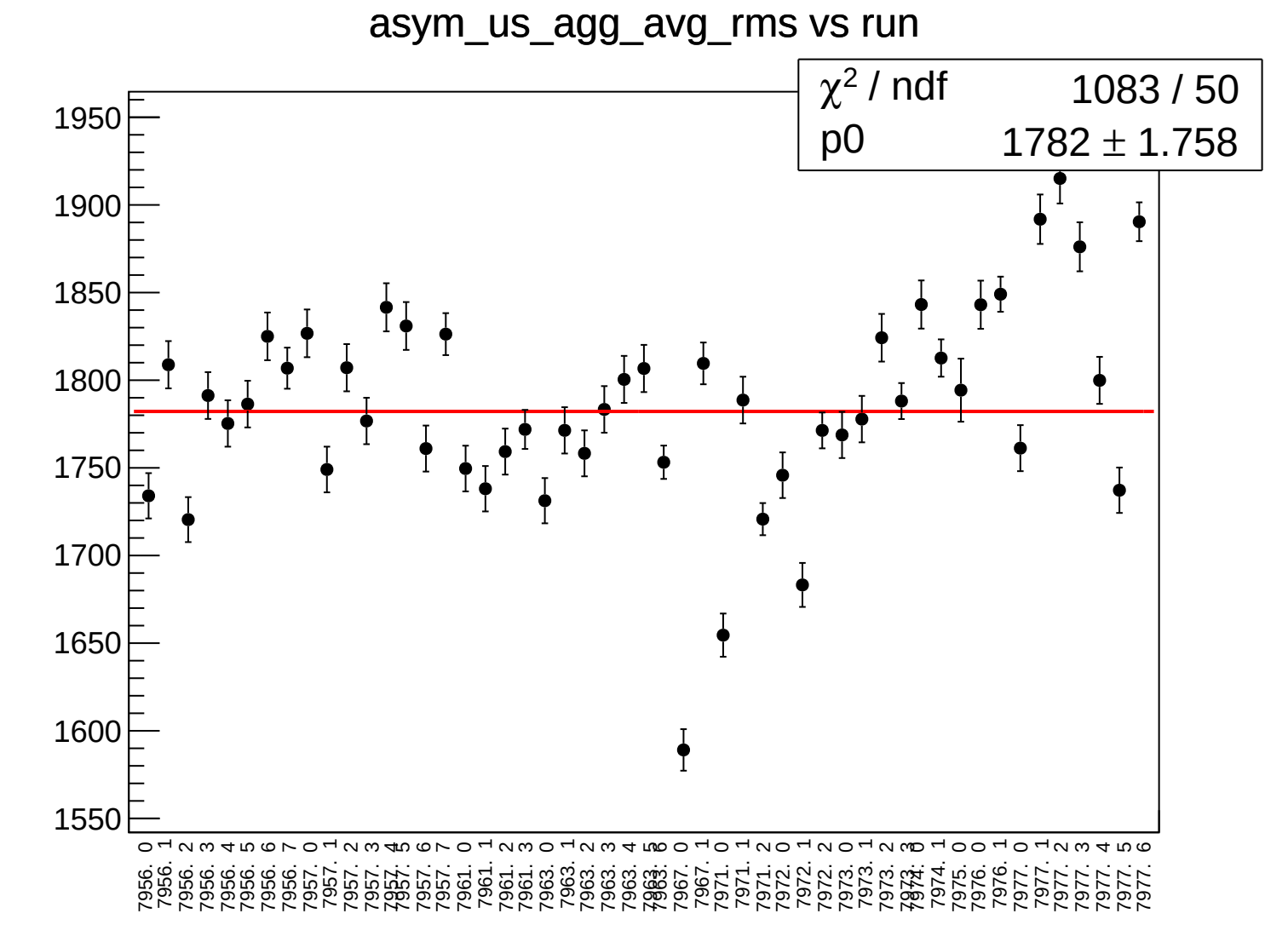

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

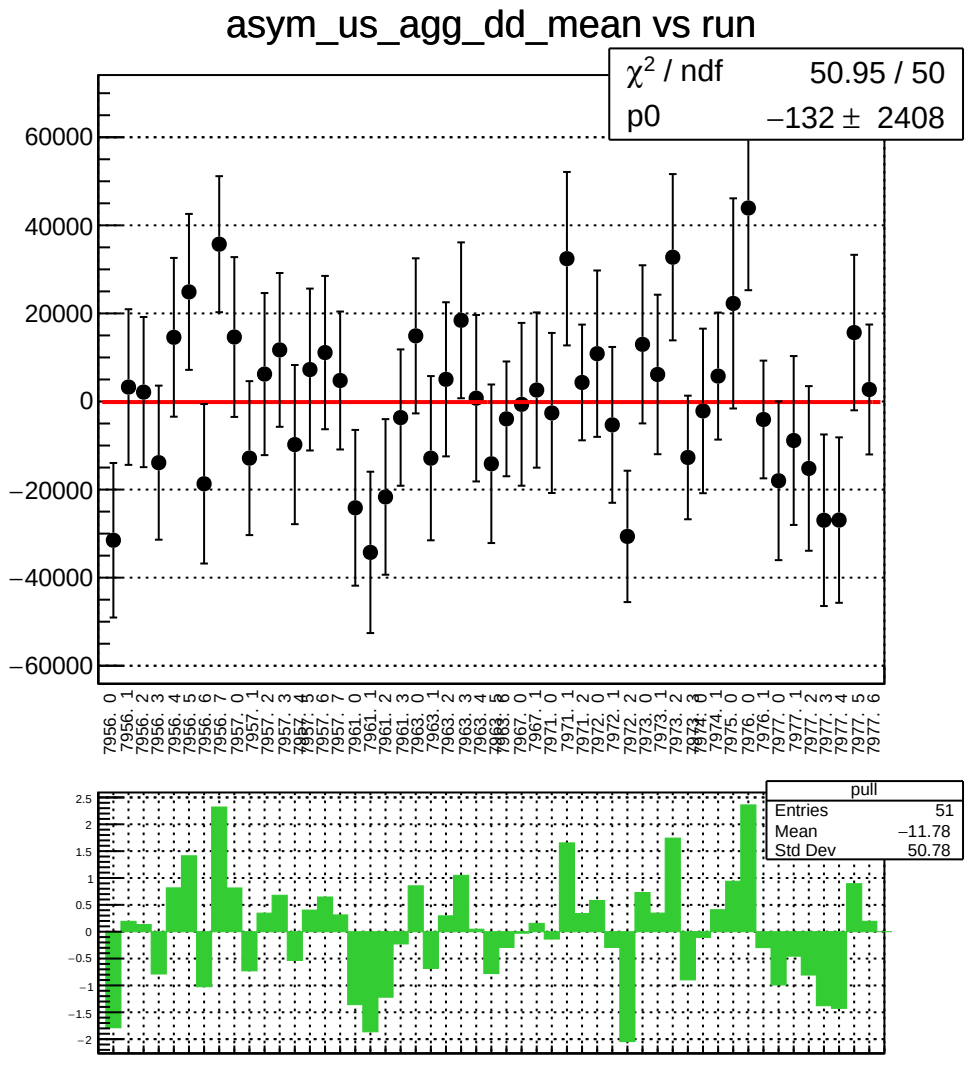

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

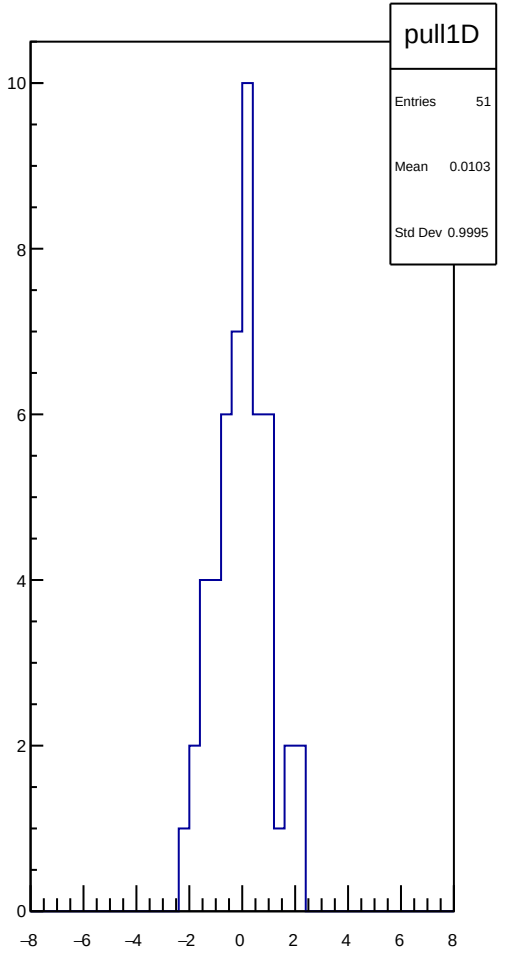

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

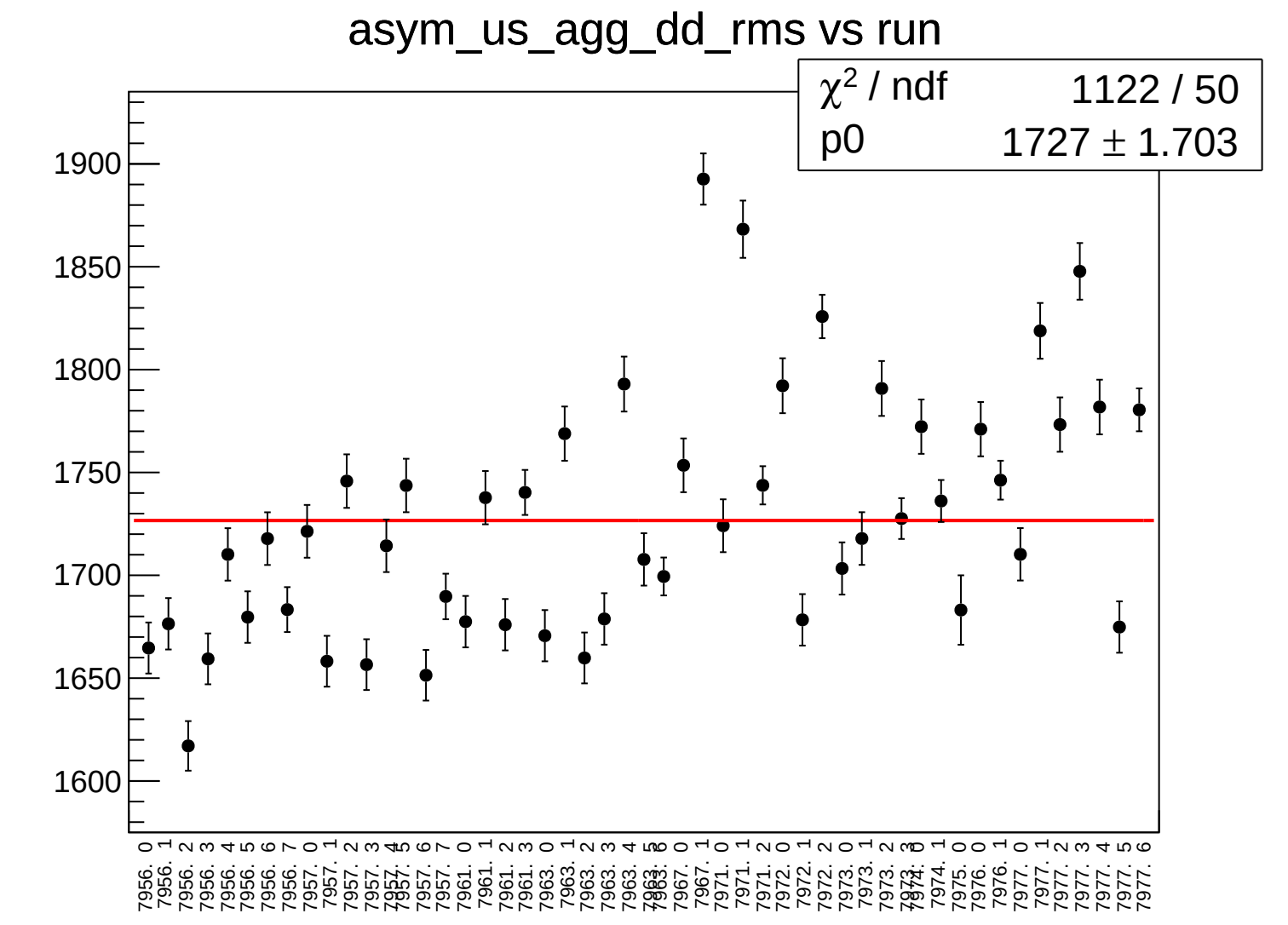

asym_us_agg_avg_mean vs run
χ² / ndf 39.28 / 50
p0 −3879 ± 2486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 22.94
Std Dev 50.43
2
1.5
1
0.5
0
−0.5
−1
−1.5

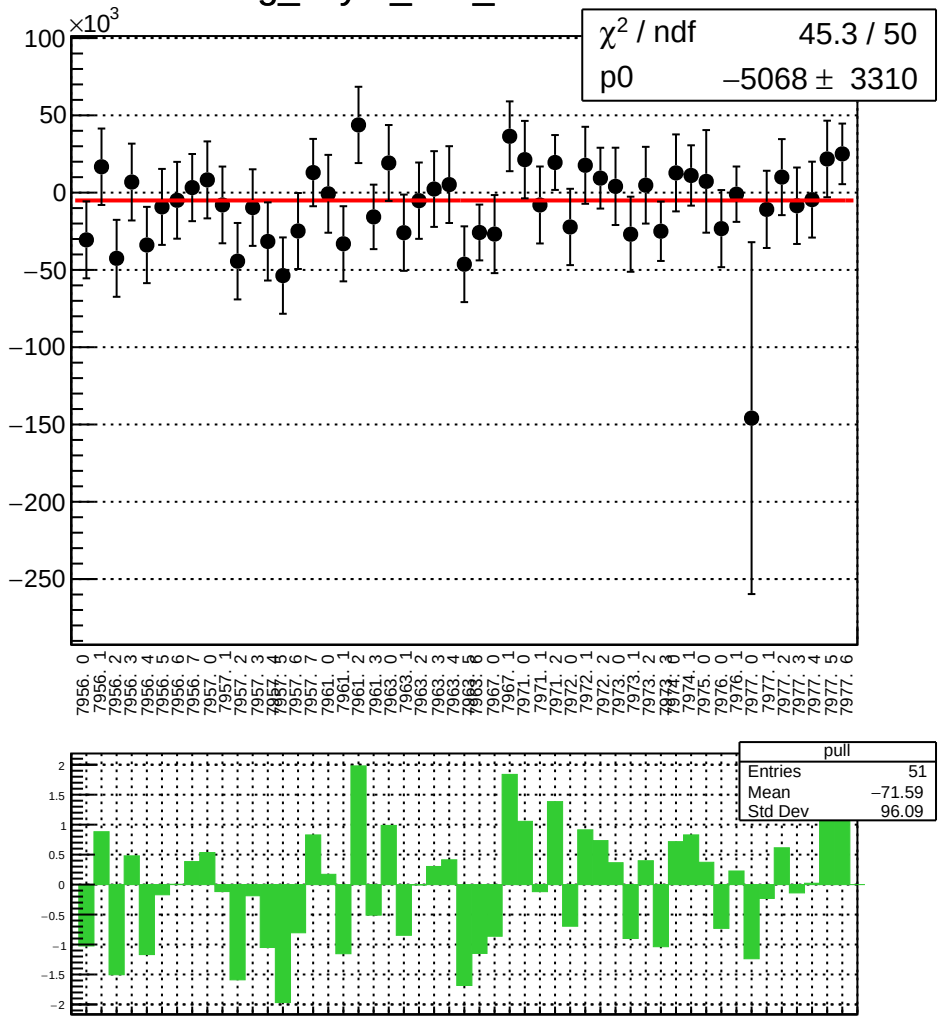

pull1D
Entries 51
Mean 0.01307
Std Dev 0.8775
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

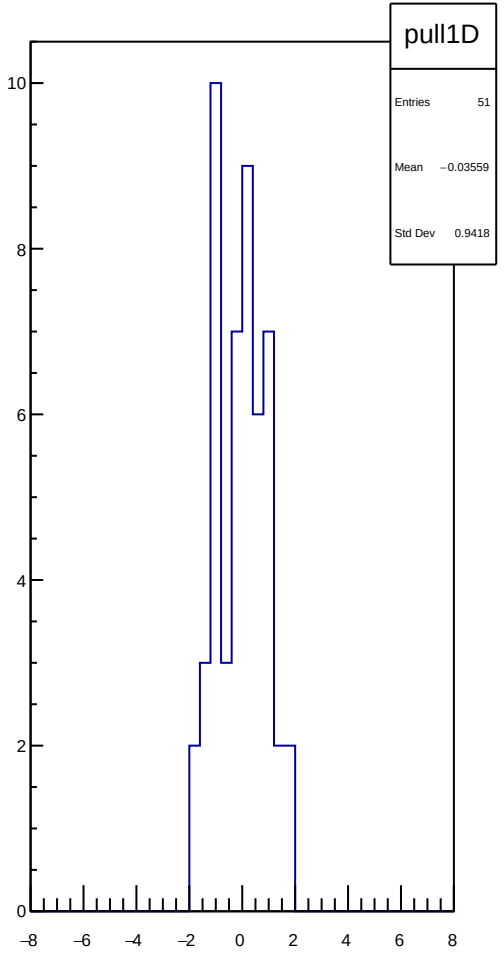

asym_us_agg_avg_rms vs run
χ² / ndf 1083 / 50
p0 1782 ± 1.758
1950
1900
1850
1800
1750
1700
1650
1600
1550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

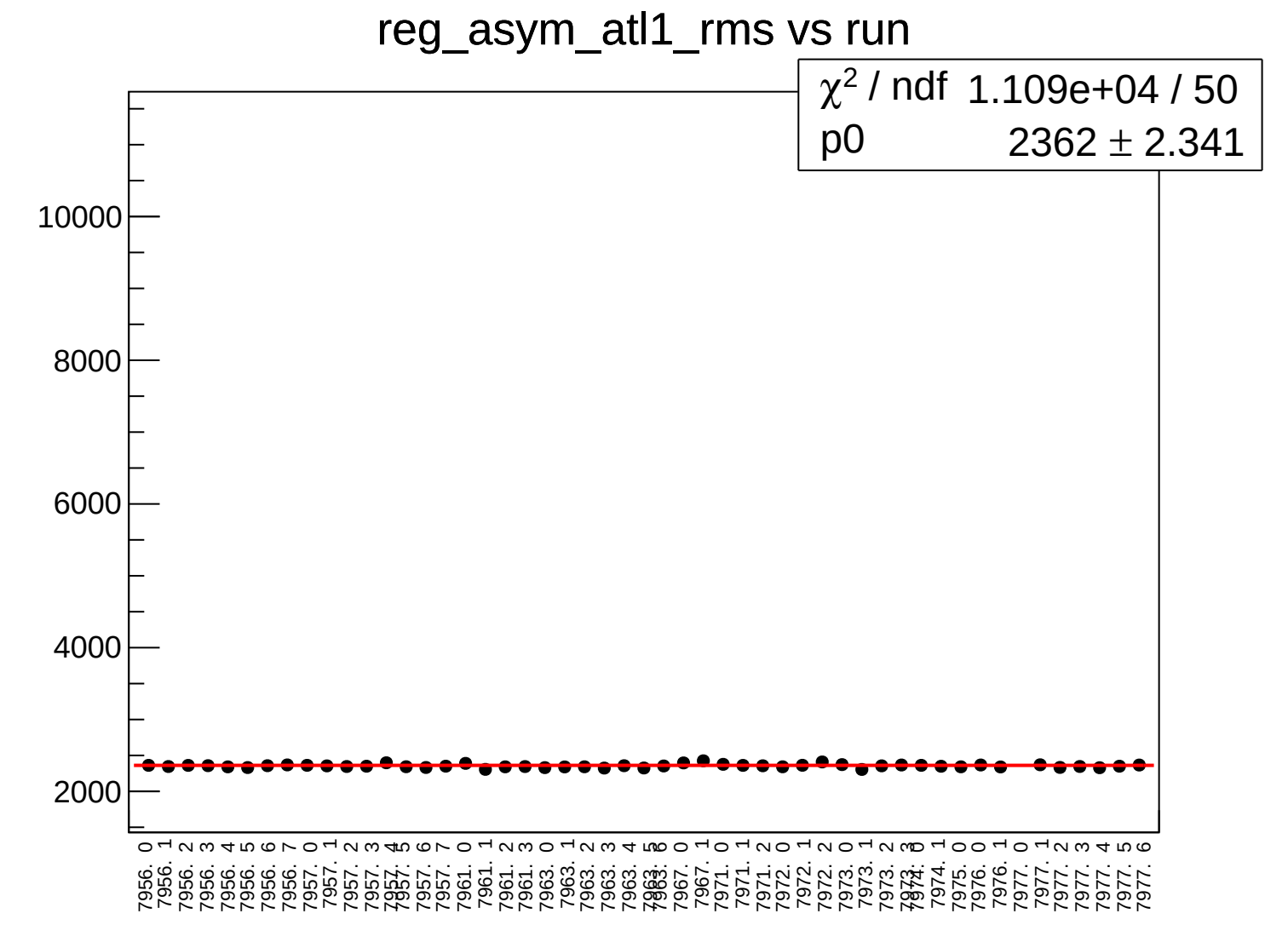

asym_us_agg_dd_mean vs run
χ² / ndf 50.95 / 50
p0 −132 ± 2408
pull
Entries 51
Mean −11.78
Std Dev 50.78


pull1D
Entries 51
Mean 0.0103
Std Dev 0.9995


asym_us_agg_dd_rms vs run
χ² / ndf 1122 / 50
p0 1727 ± 1.703
1900
1850
1800
1750
1700
1650
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 45.3 / 50
p0 −5068 ± 3310
pull
Entries 51
Mean −71.59
Std Dev 96.09


pull1D
Entries 51
Mean −0.03559
Std Dev 0.9418


reg_asym_atl1_rms vs run
χ² / ndf 1.109e+04 / 50
p0 2362 ± 2.341
10000
8000
6000
4000
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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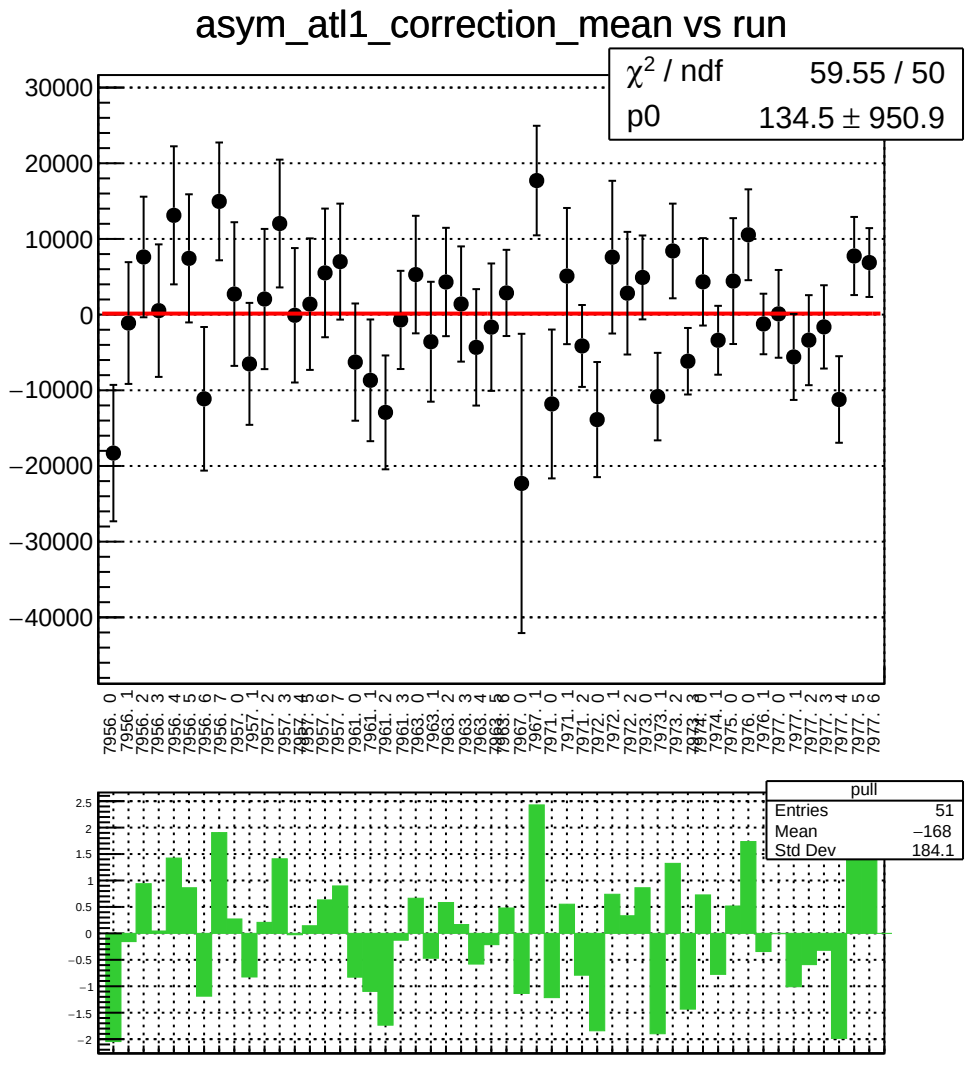
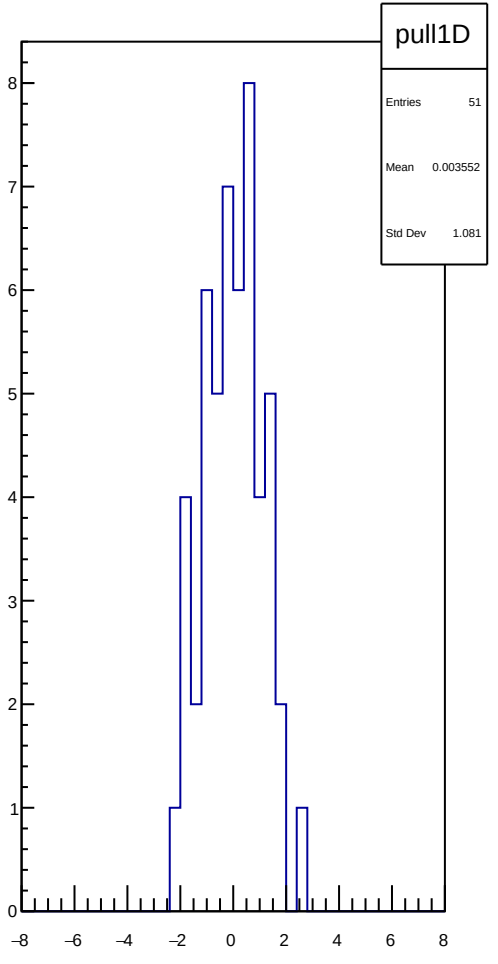
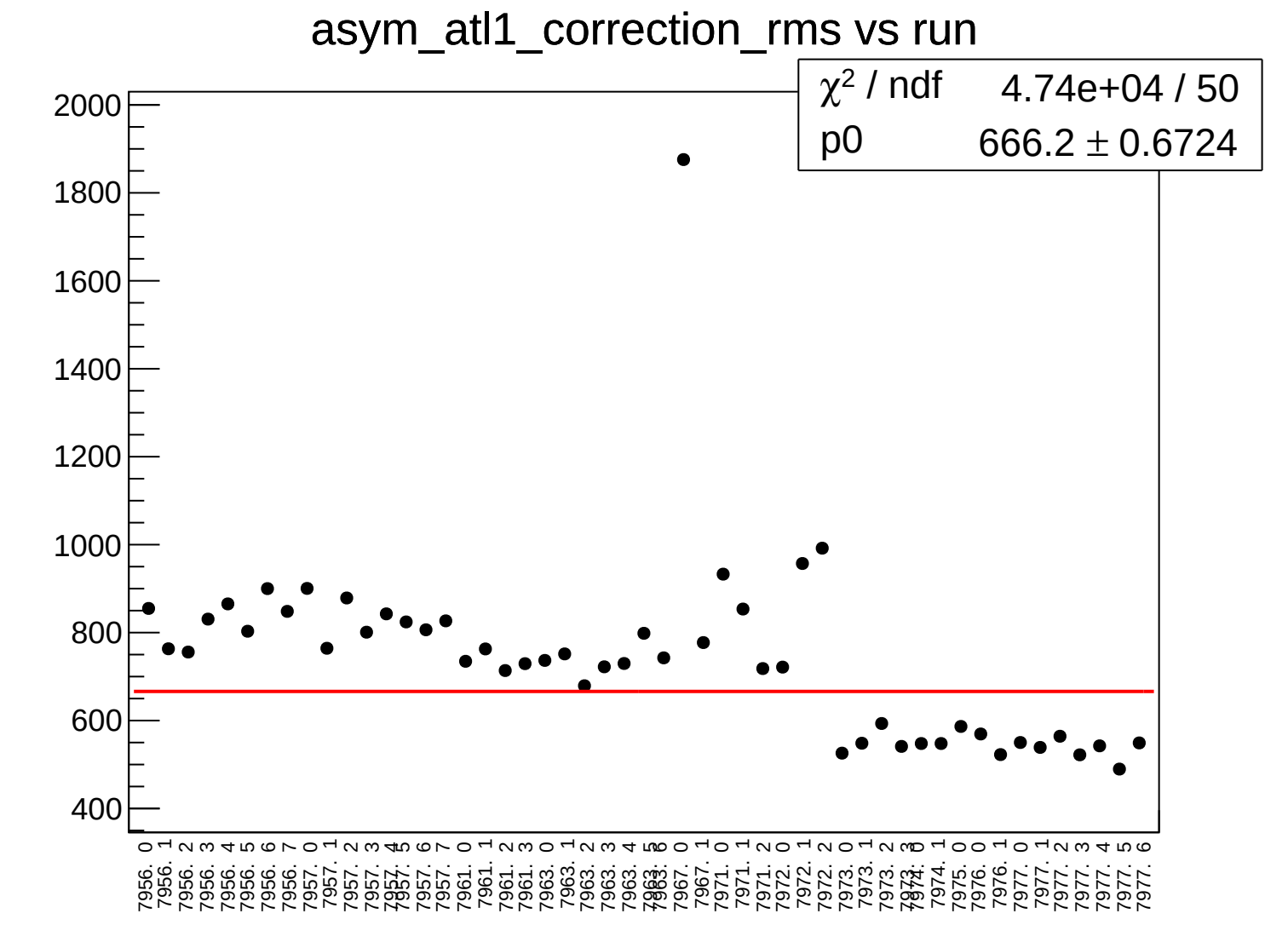
7977. 5
7977. 6


asym_atl1_correction_mean vs run
χ² / ndf 59.55 / 50
p0 134.5 ± 950.9
pull
Entries 51
Mean −168
Std Dev 184.1


pull1D
Entries 51
Mean 0.003552
Std Dev 1.081


asym_atl1_correction_rms vs run
χ² / ndf 4.74e+04 / 50
p0 666.2 ± 0.6724
2000
1800
1600
1400
1200
1000
800
600
400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
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7977. 0
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7977. 3
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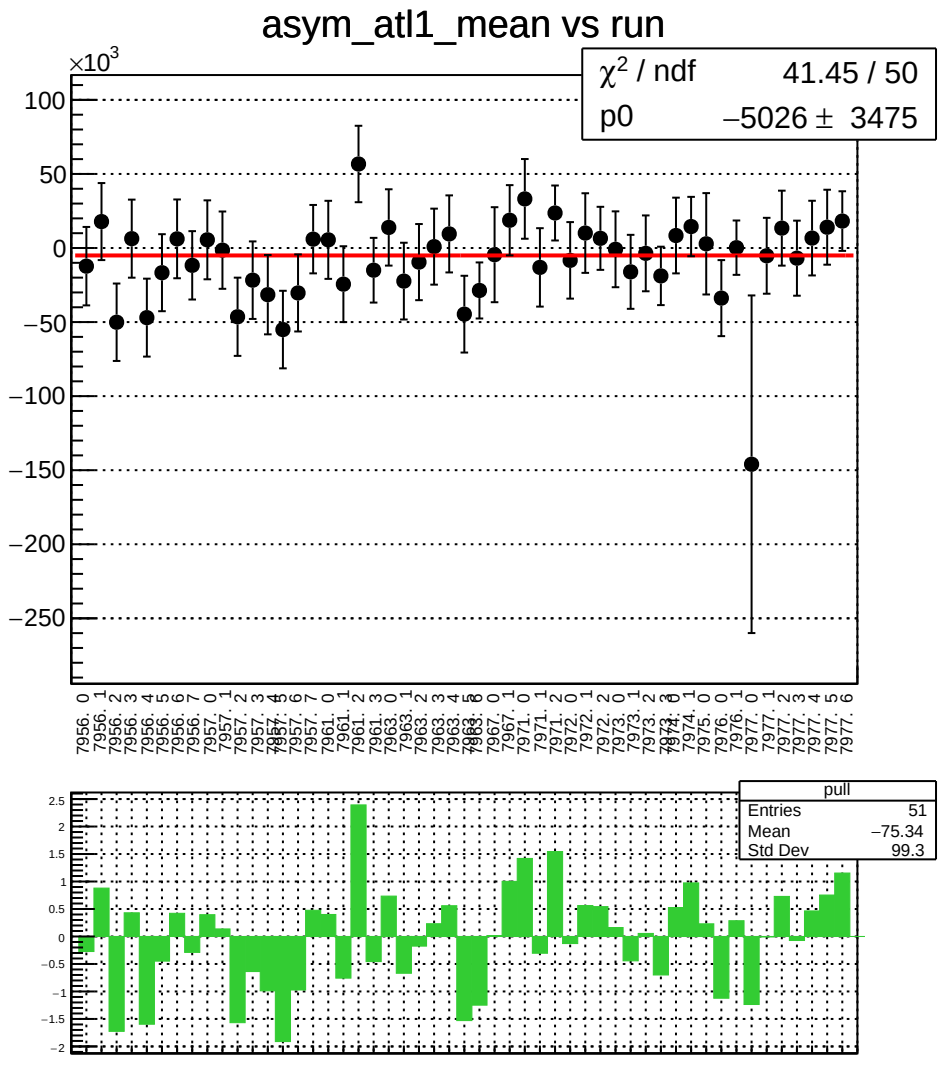
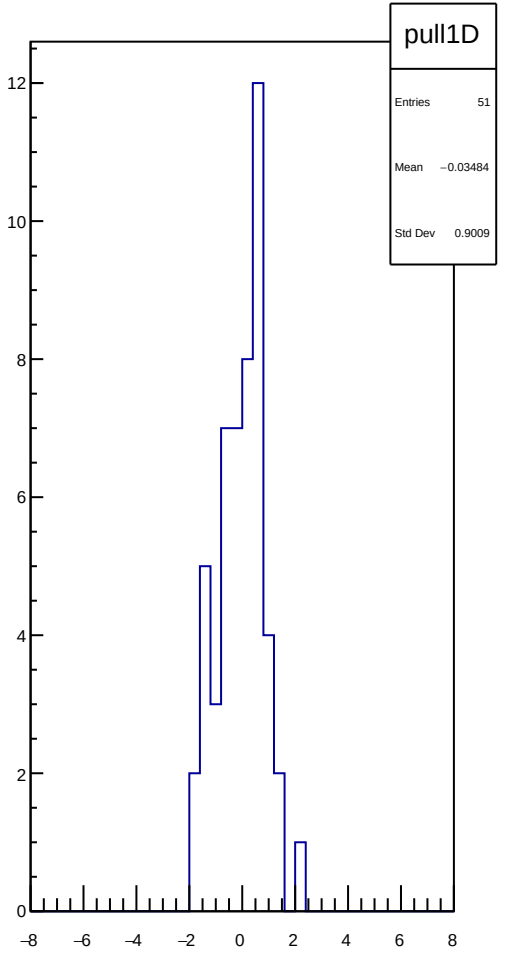
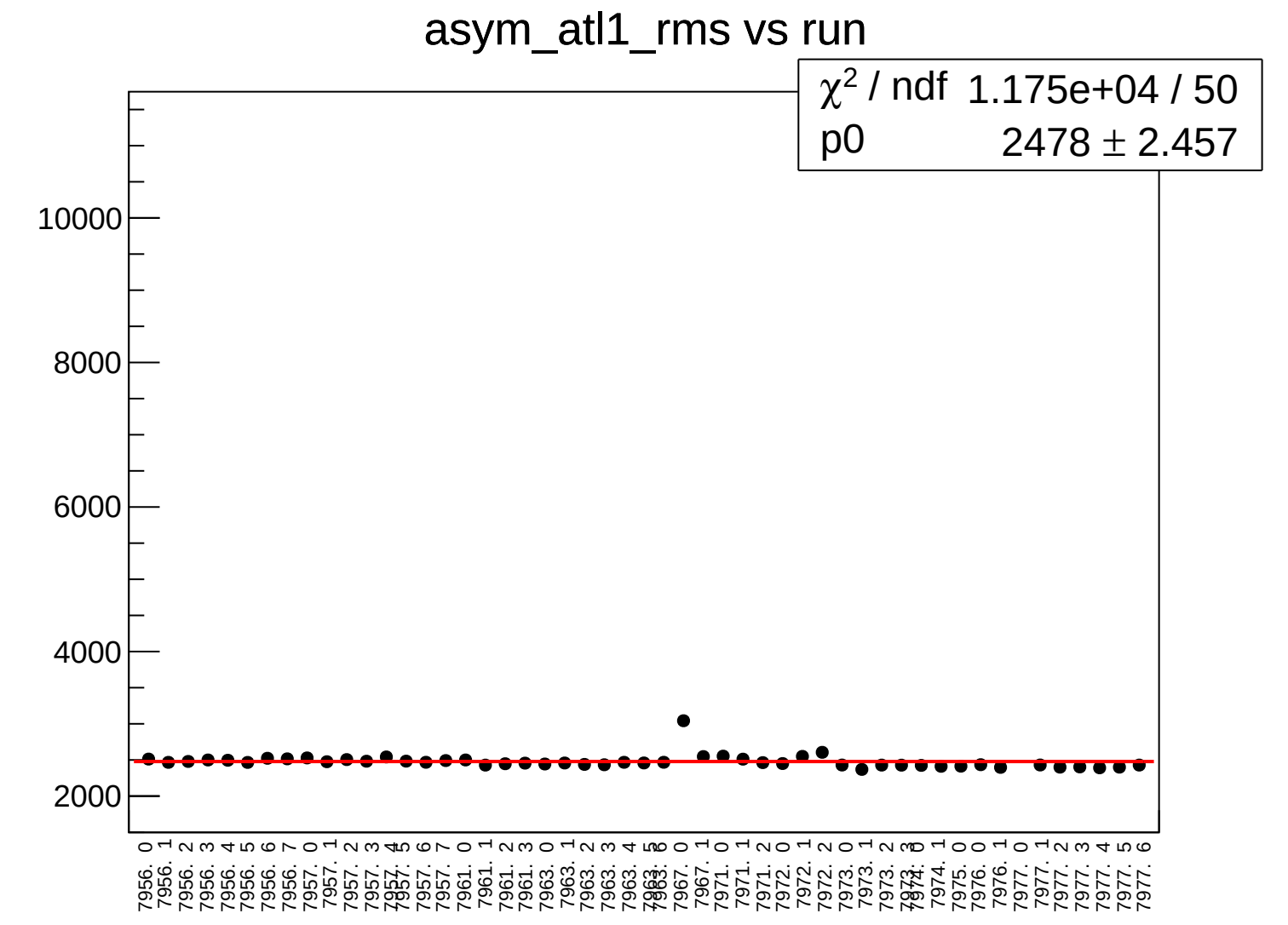
7977. 5
7977. 6


asym_atl1_mean vs run
×10^3
χ² / ndf 41.45 / 50
p0 −5026 ± 3475
pull
Entries 51
Mean −75.34
Std Dev 99.3


pull1D
Entries 51
Mean −0.03484
Std Dev 0.9009


asym_atl1_rms vs run
χ² / ndf 1.175e+04 / 50
p0 2478 ± 2.457
10000
8000
6000
4000
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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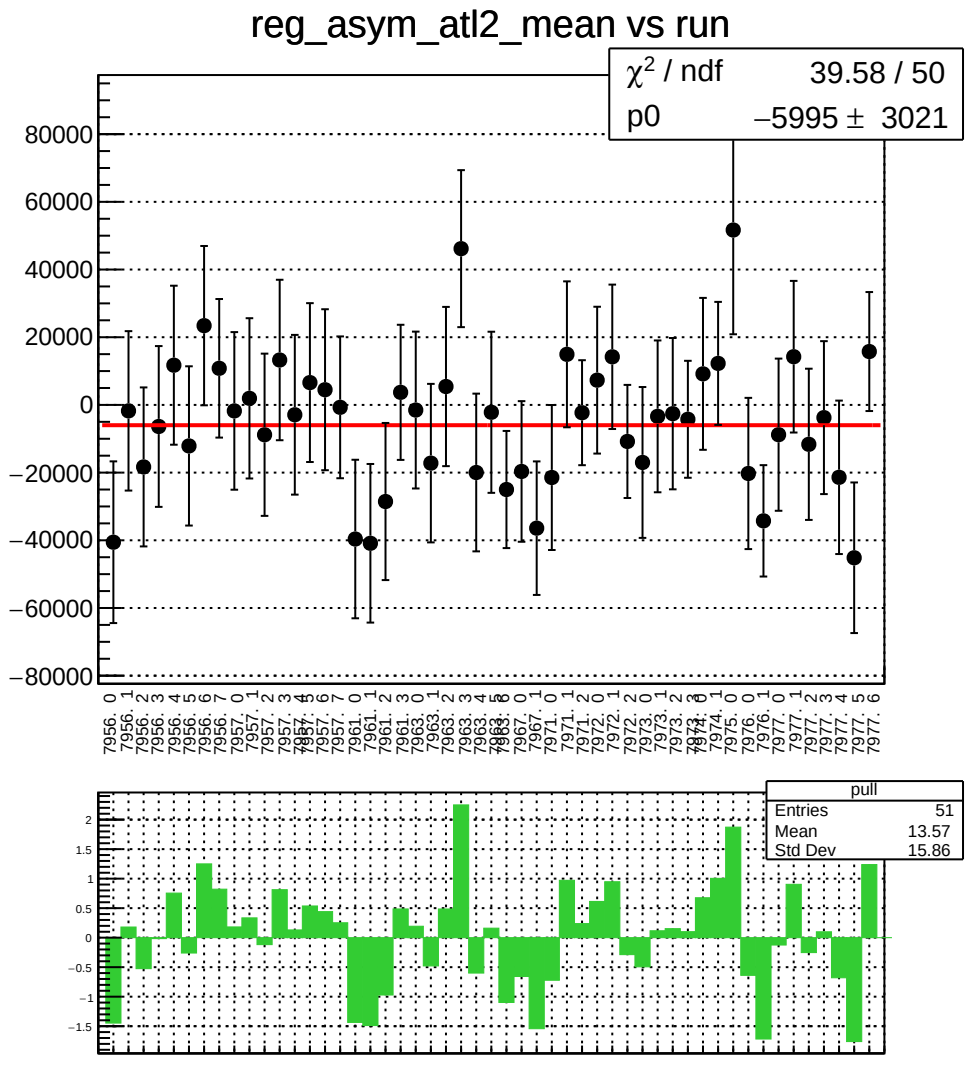
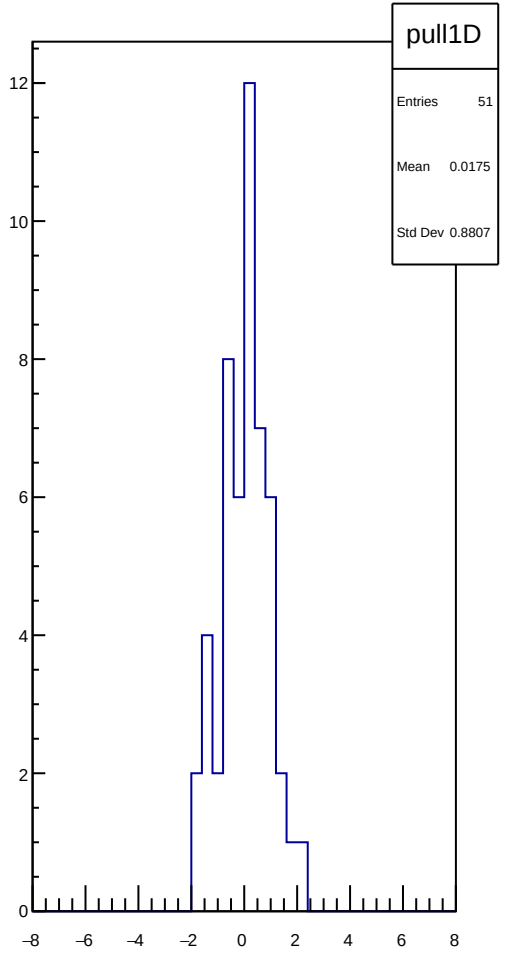
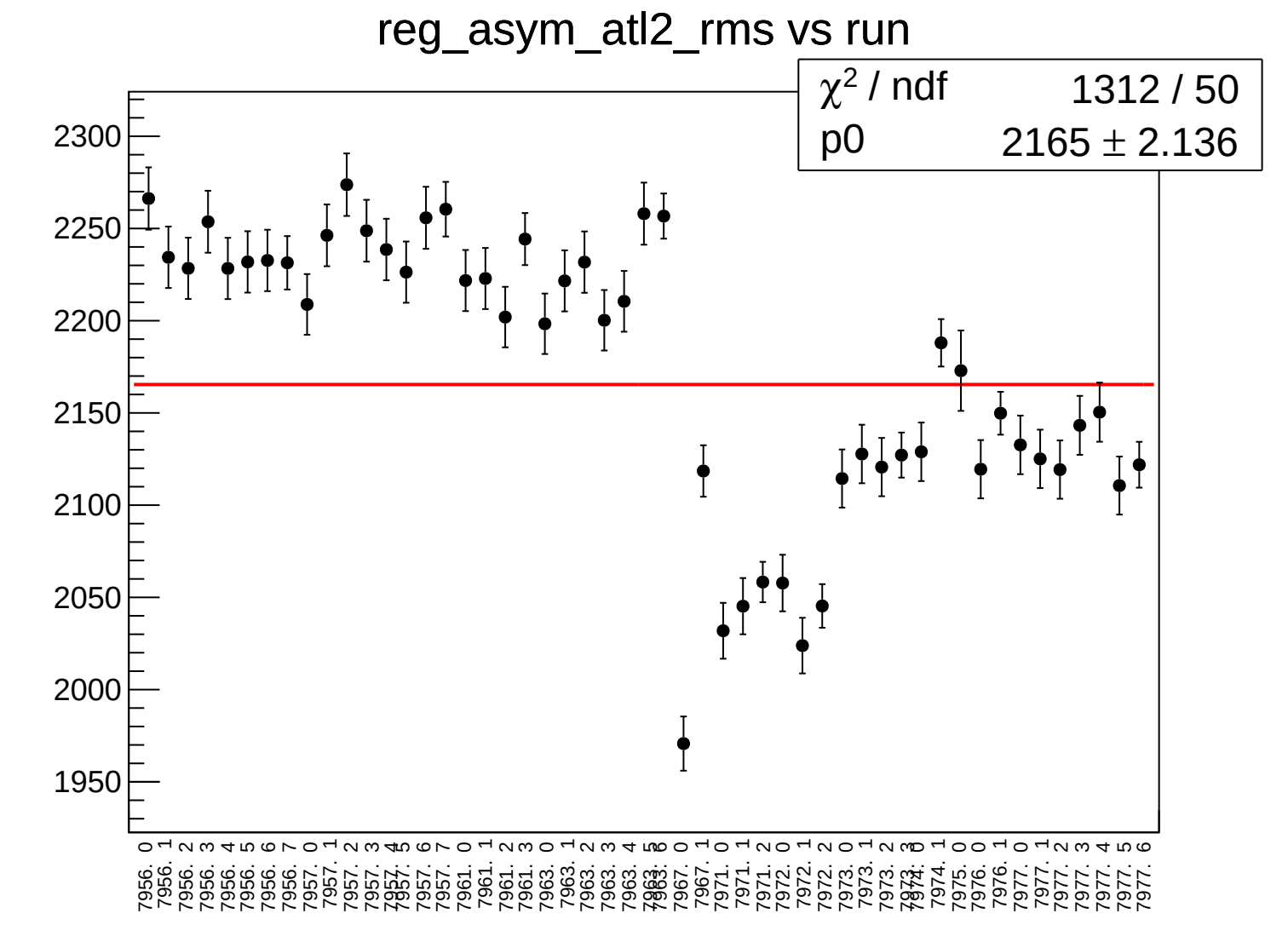
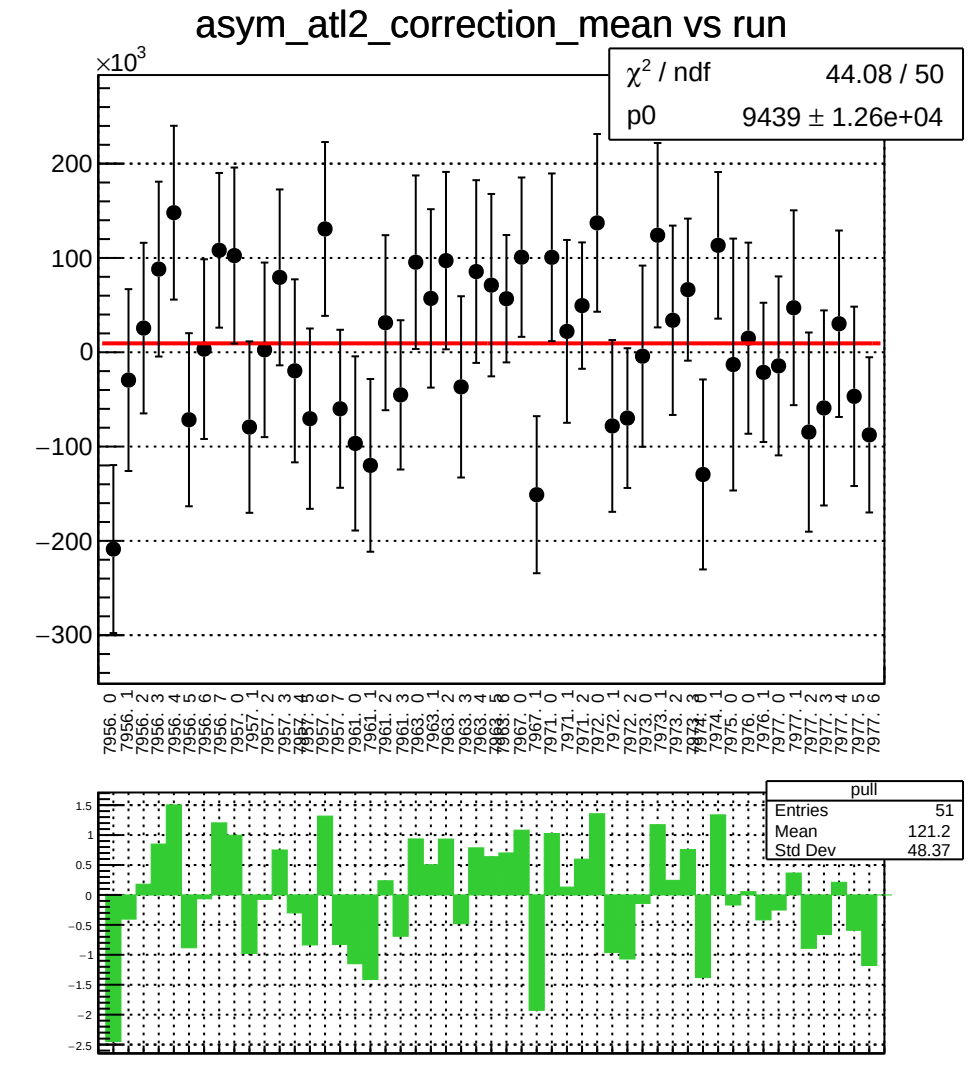
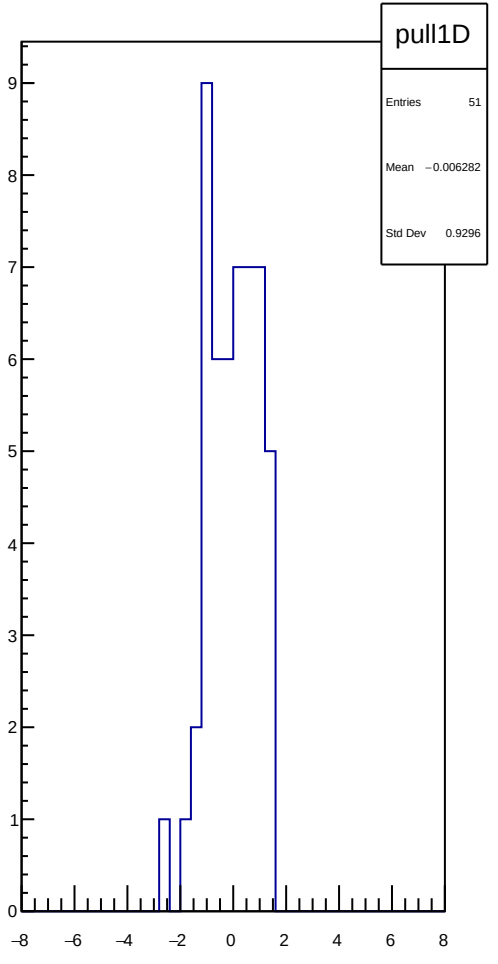
7977. 5
7977. 6

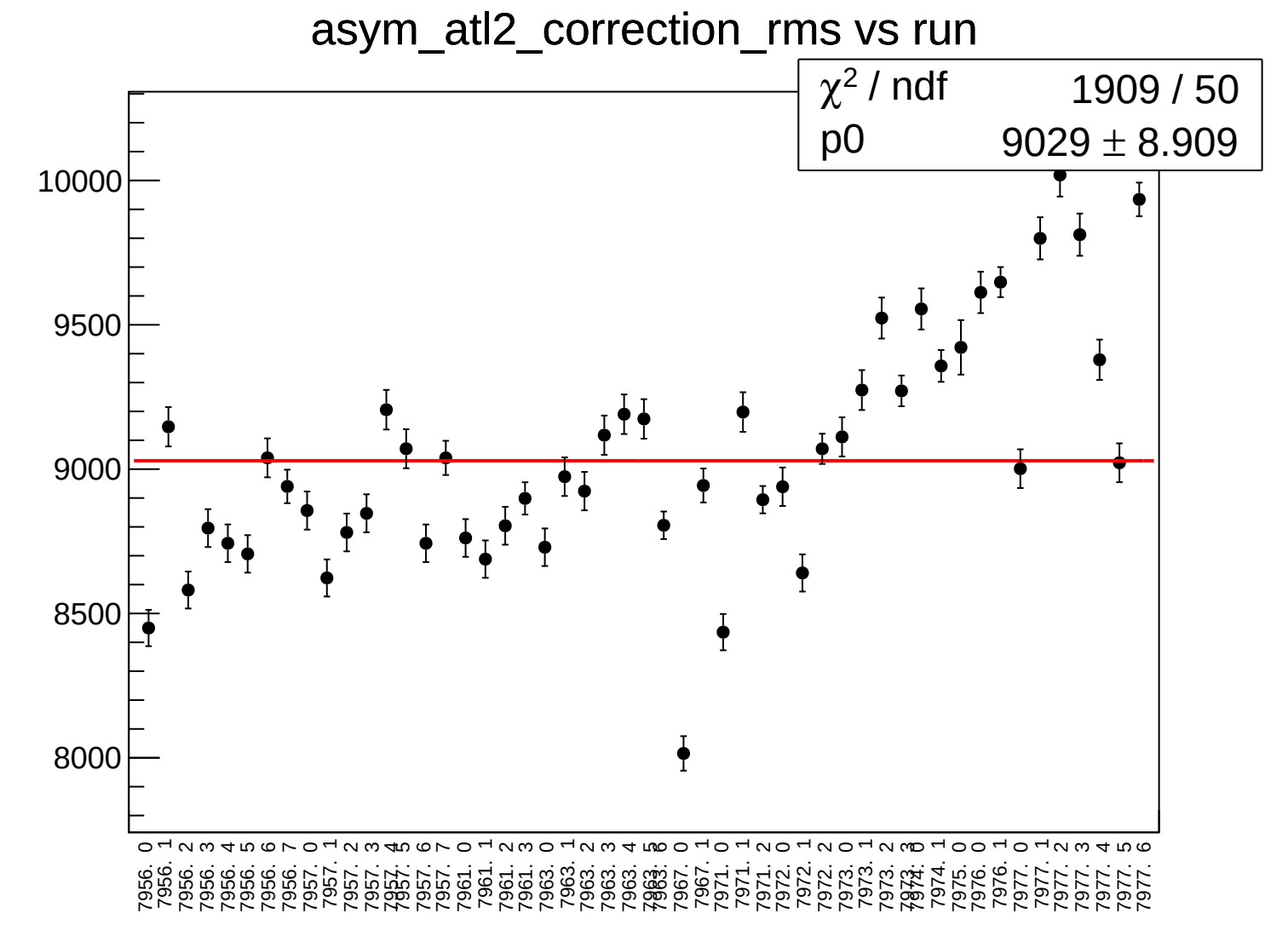

reg_asym_atl2_mean vs run
χ² / ndf 39.58 / 50
p0 −5995 ± 3021
pull
Entries 51
Mean 13.57
Std Dev 15.86

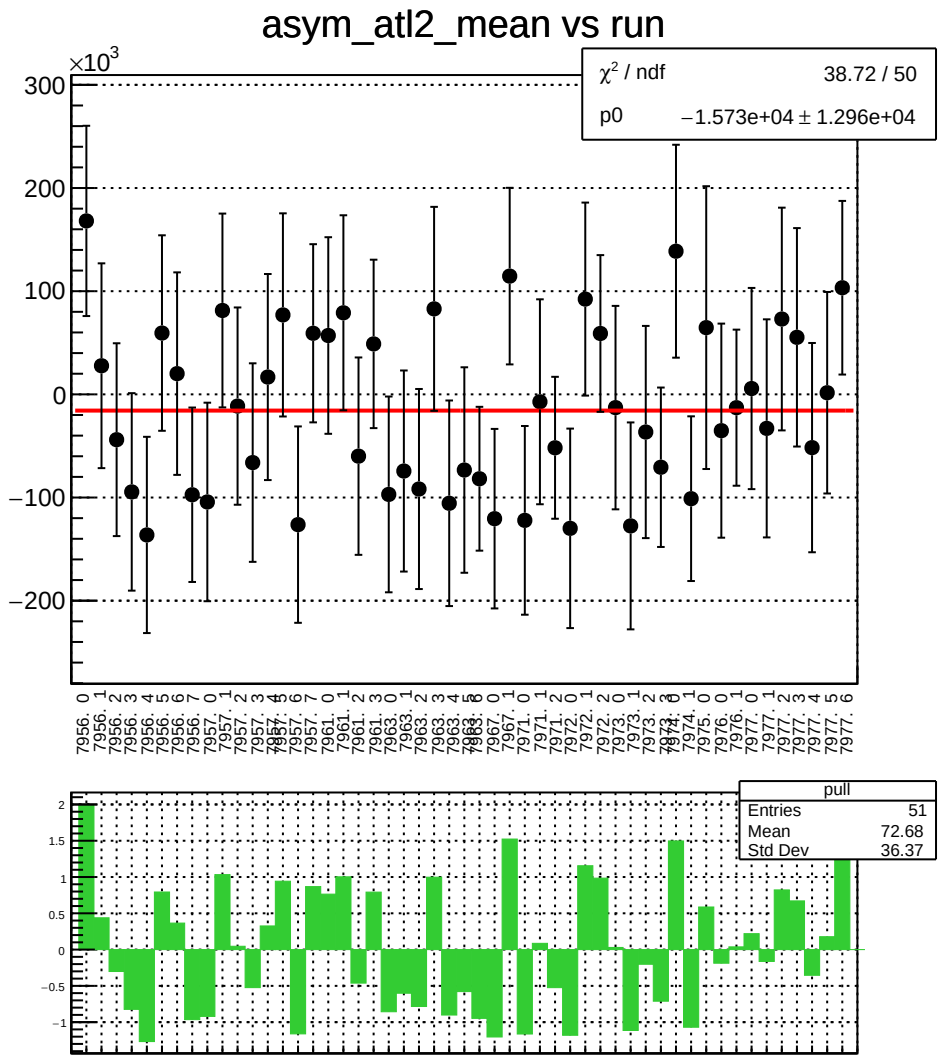

pull1D
Entries 51
Mean 0.0175
Std Dev 0.8807

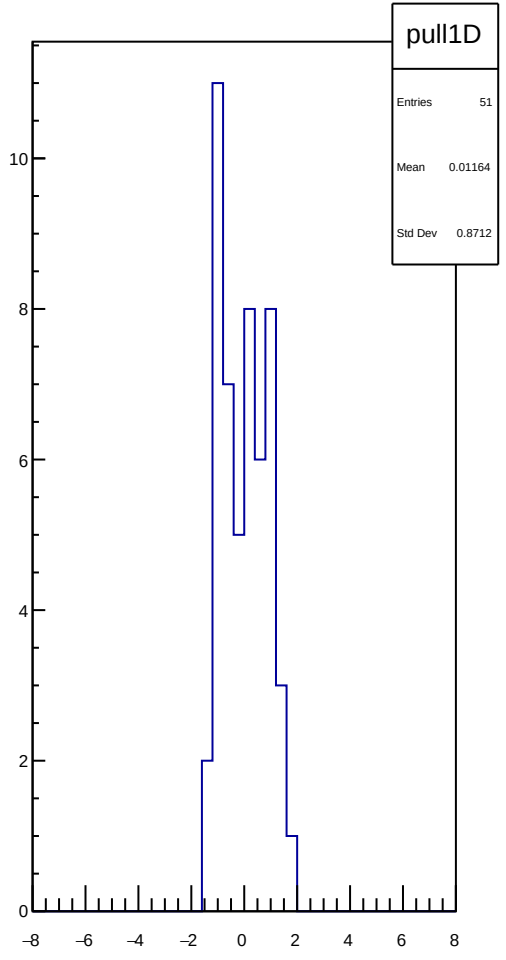

reg_asym_atl2_rms vs run
χ² / ndf 1312 / 50
p0 2165 ± 2.136
2300
2250
2200
2150
2100
2050
2000
1950
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

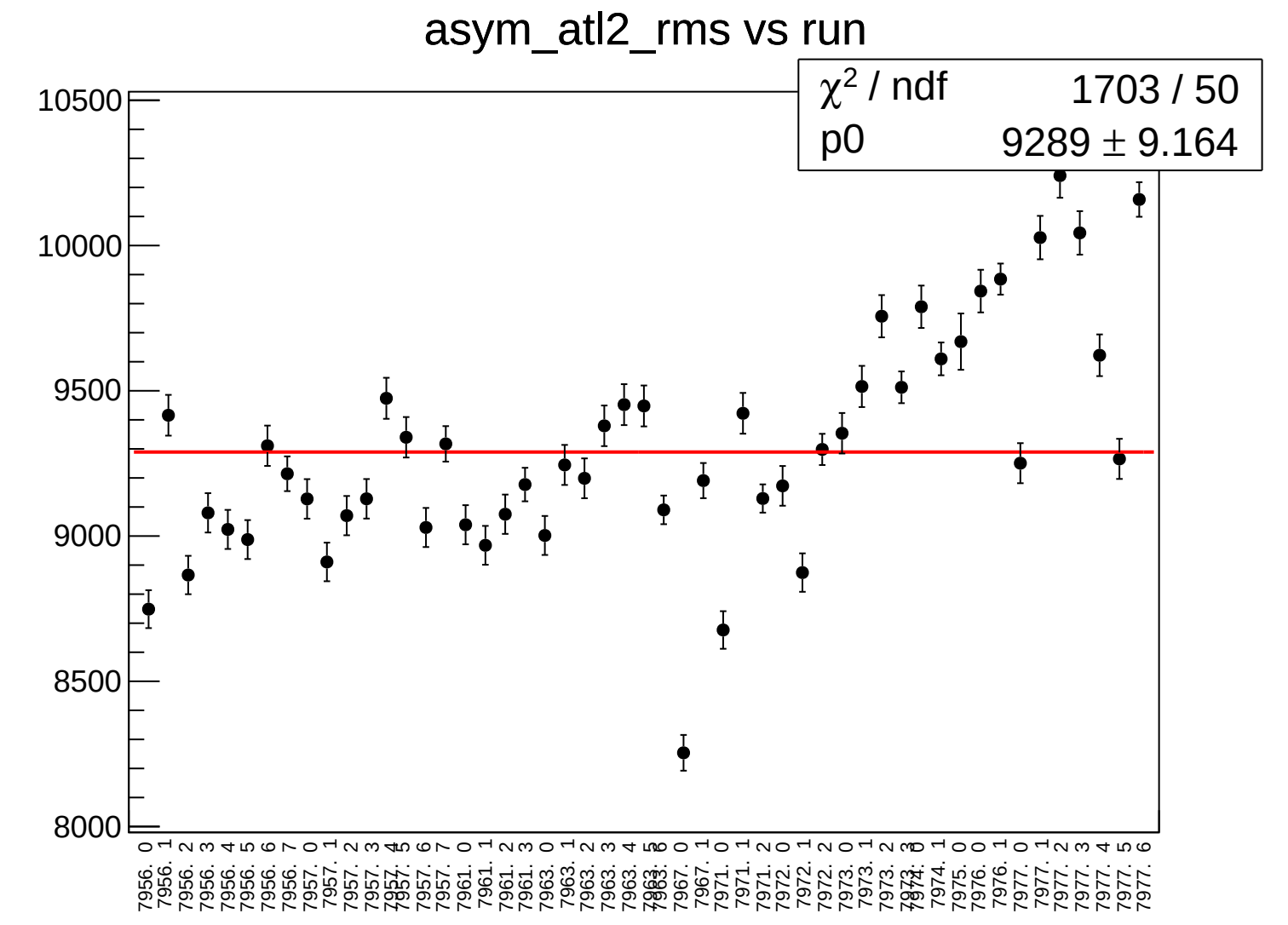

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 44.08 / 50
p0 9439 ± 1.26e+04
200
100
0
−100
−200
−300
pull
Entries 51
Mean 121.2
Std Dev 48.37
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.006282
Std Dev 0.9296
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl2_correction_rms vs run
χ² / ndf 1909 / 50
p0 9029 ± 8.909
10000
9500
9000
8500
8000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl2_mean vs run
×10^3
χ² / ndf 38.72 / 50
p0 −1.573e+04 ± 1.296e+04
pull
Entries 51
Mean 72.68
Std Dev 36.37


pull1D
Entries 51
Mean 0.01164
Std Dev 0.8712


asym_atl2_rms vs run
χ² / ndf 1703 / 50
p0 9289 ± 9.164
10500
10000
9500
9000
8500
8000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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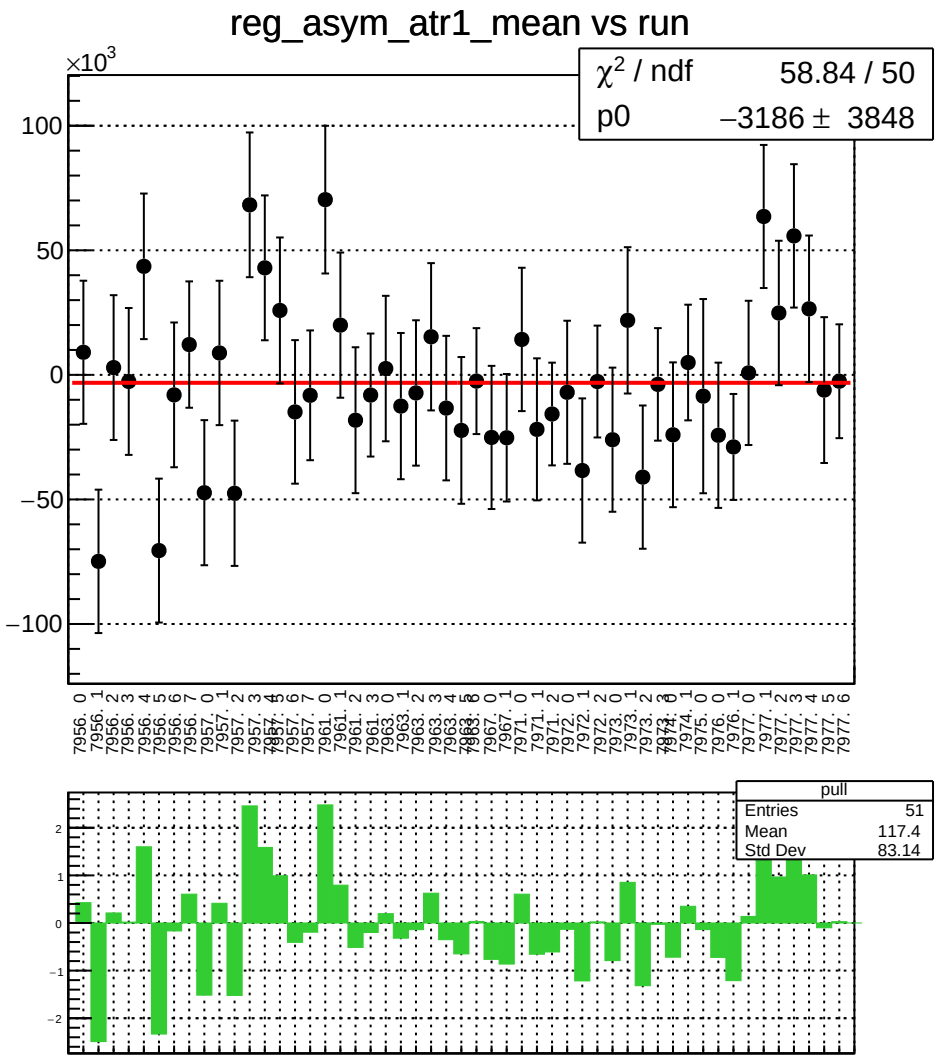
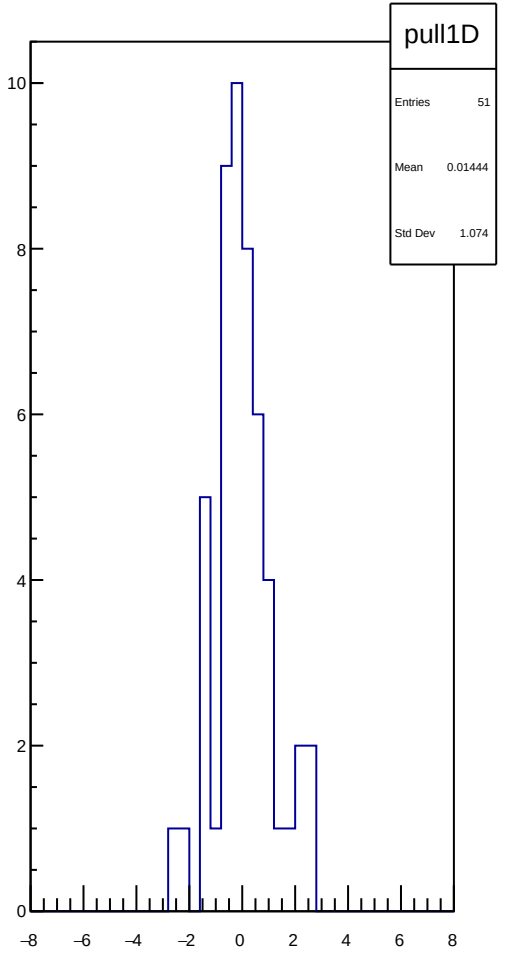
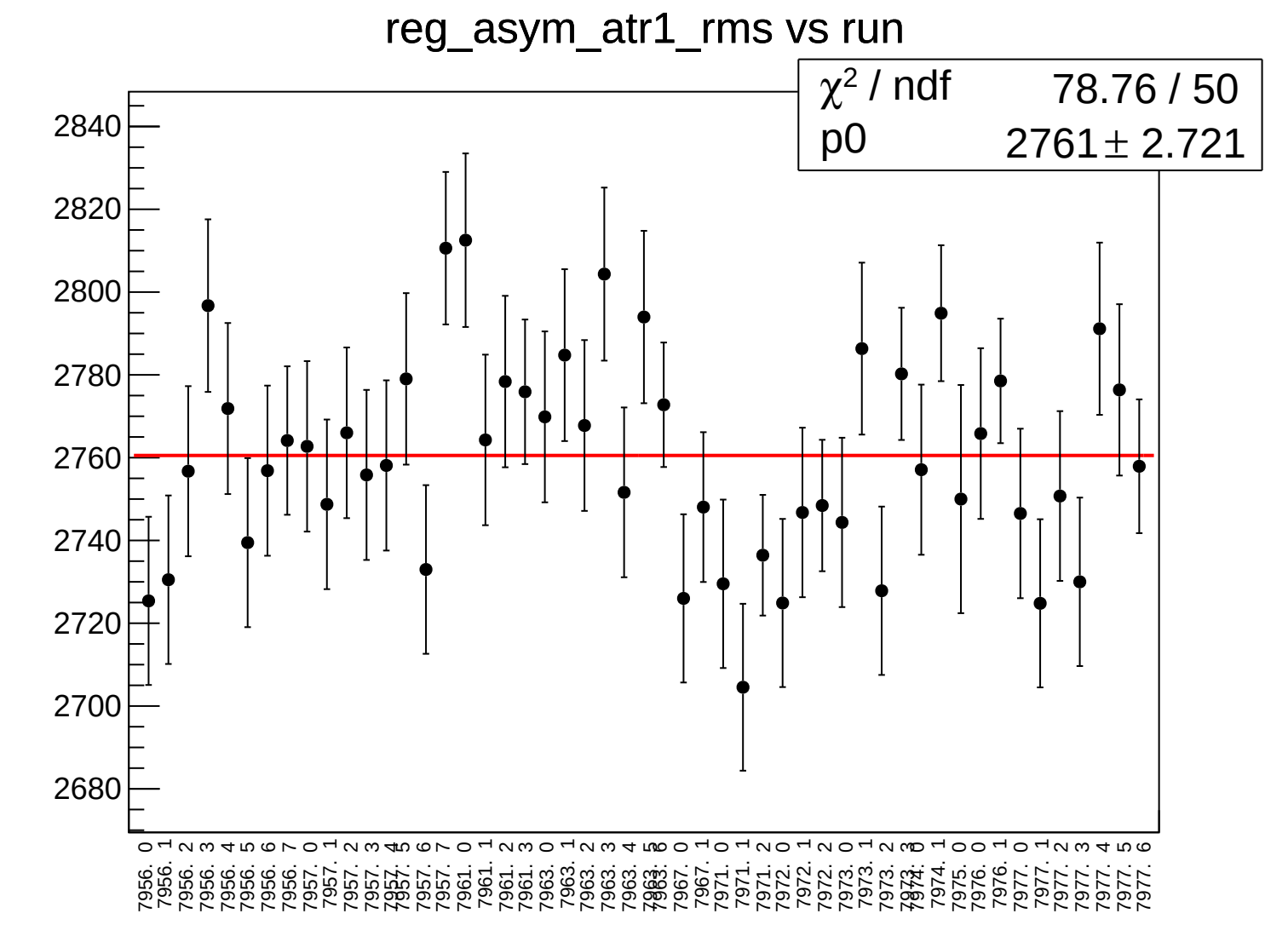
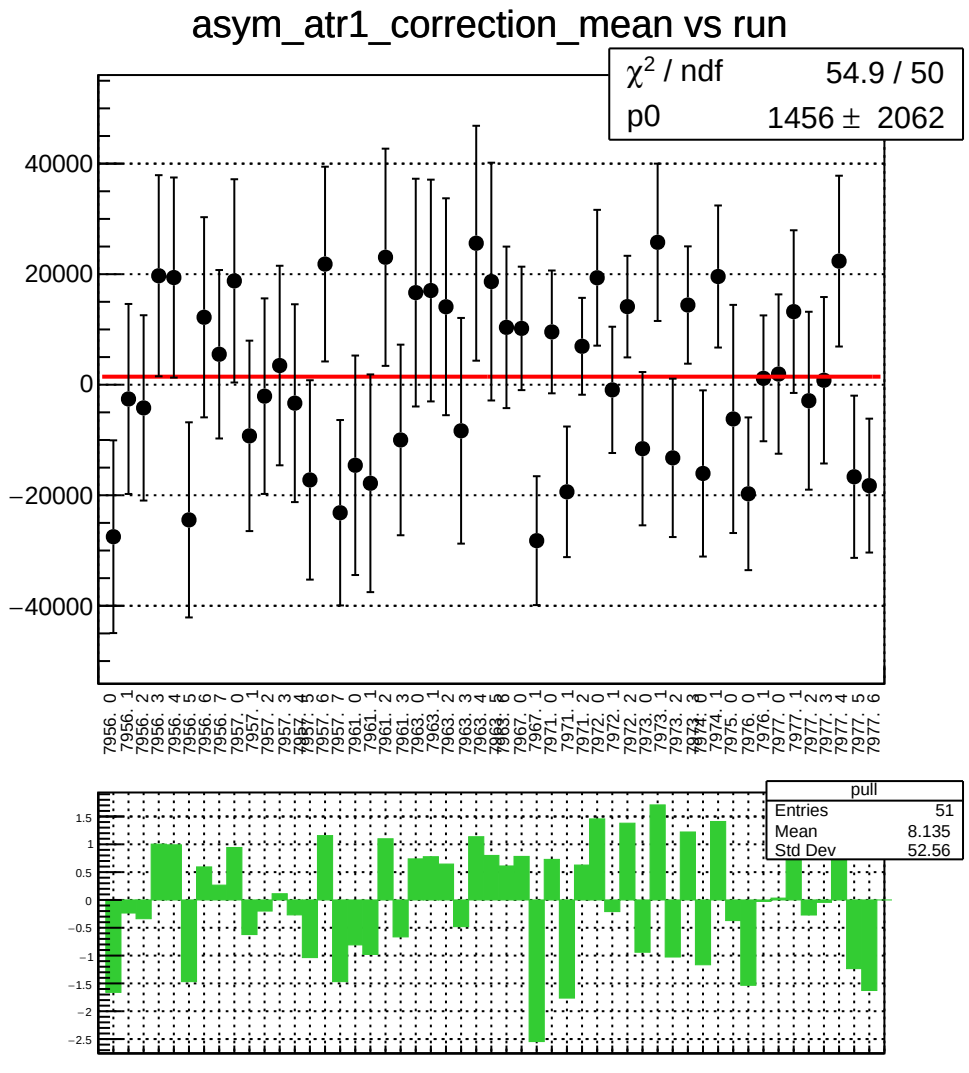
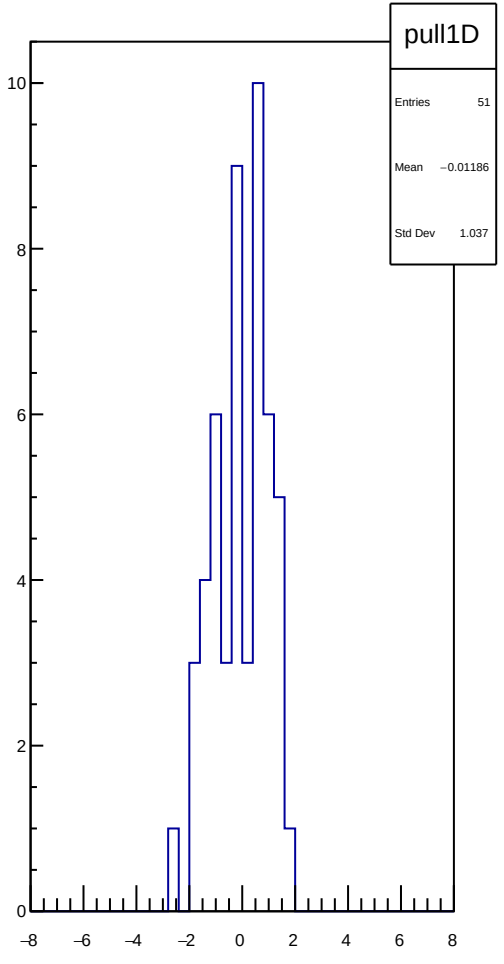
7977. 5
7977. 6

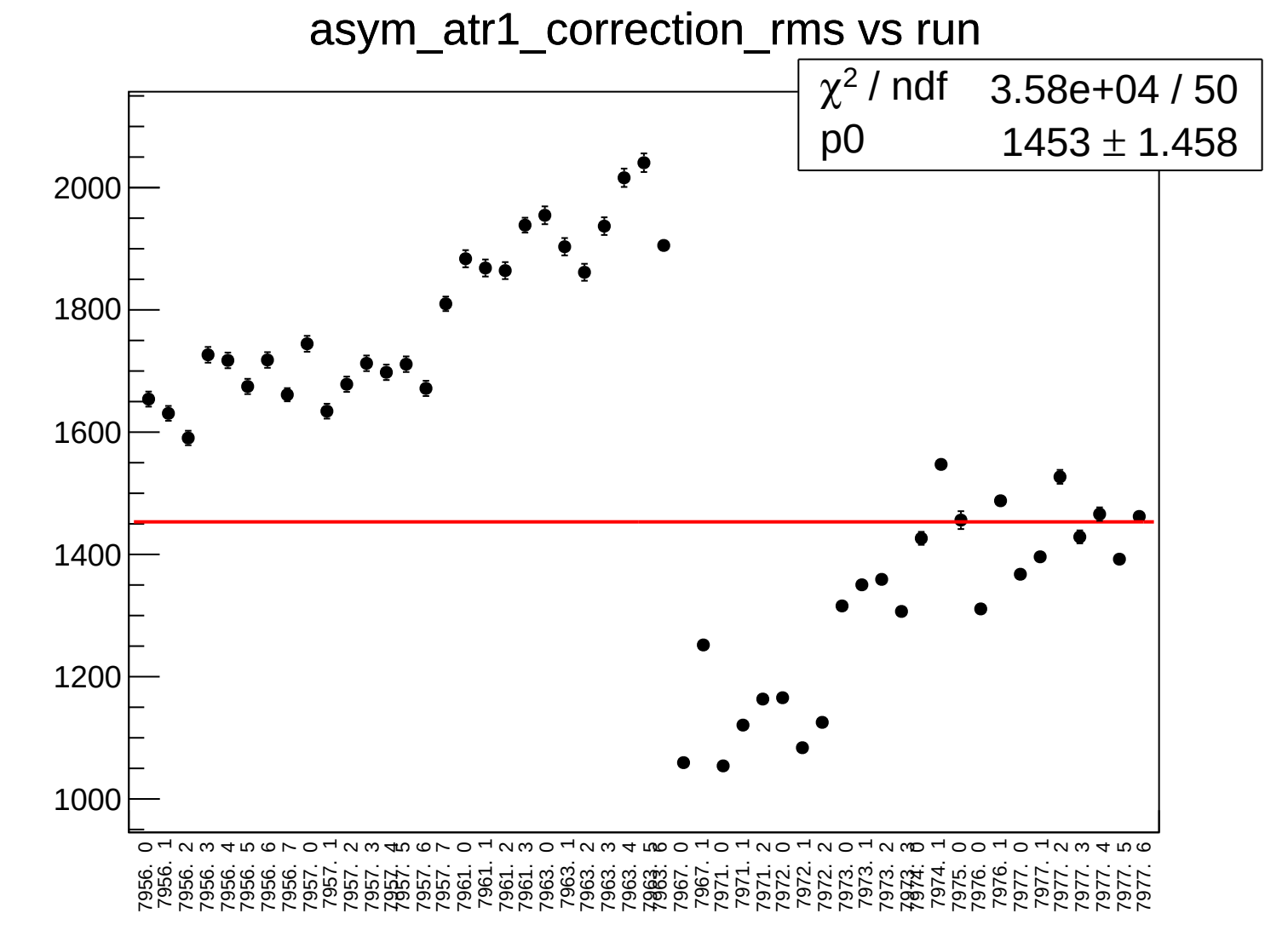

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 58.84 / 50
p0 −3186 ± 3848
100
50
0
−50
−100
pull
Entries 51
Mean 117.4
Std Dev 83.14
2
1
0
−1
−2

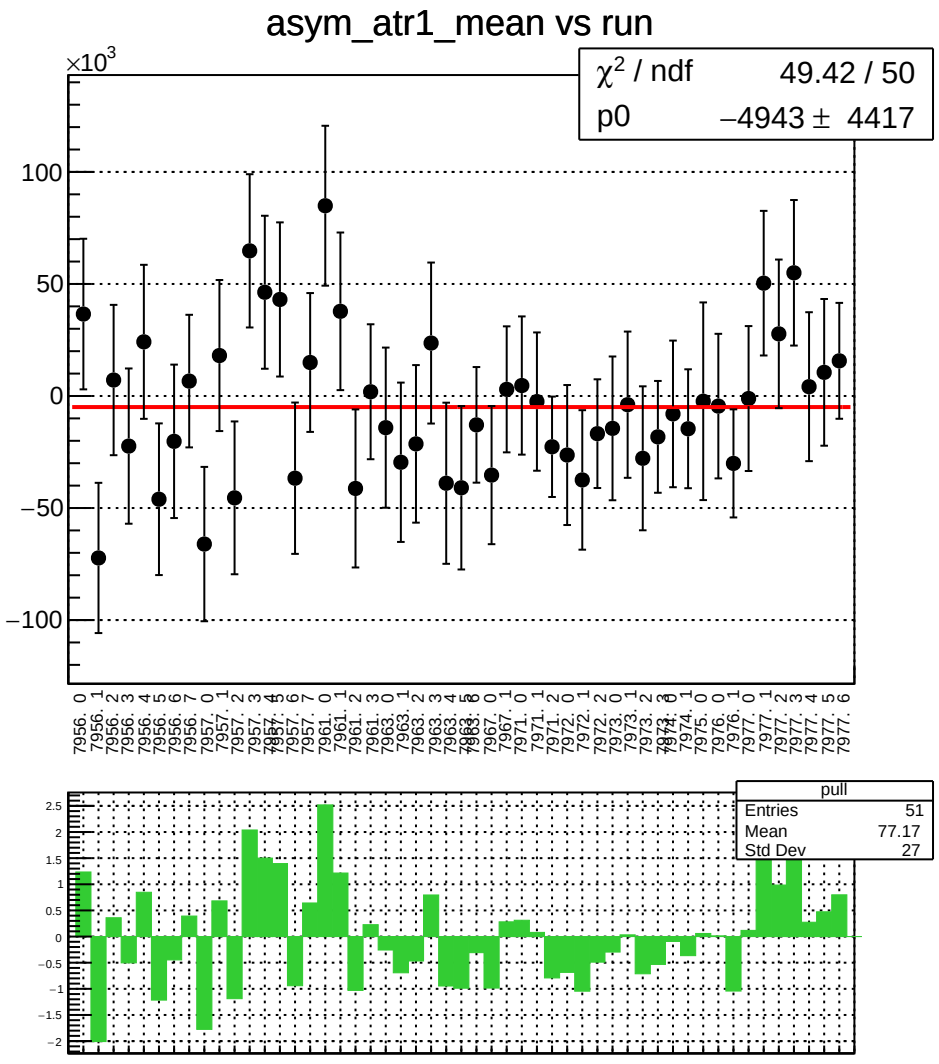

pull1D
Entries 51
Mean 0.01444
Std Dev 1.074
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

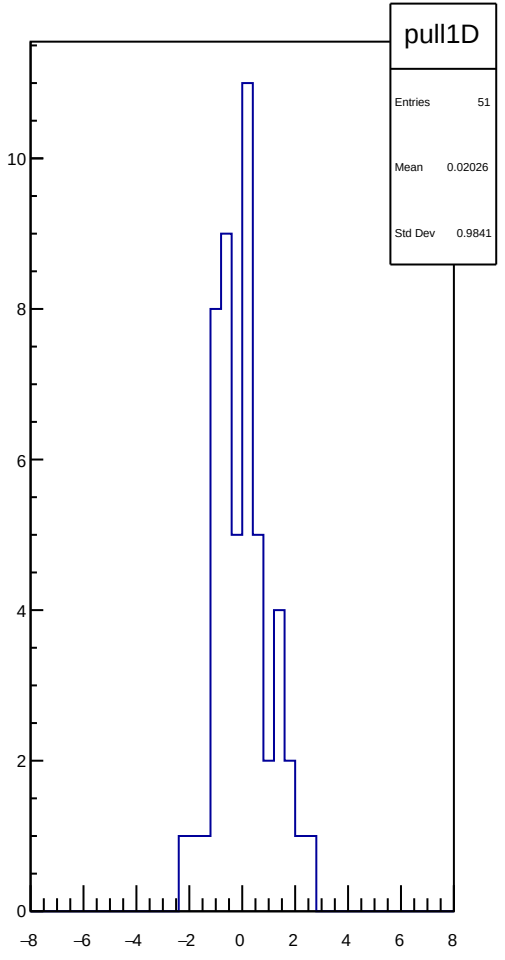

reg_asym_atr1_rms vs run
χ² / ndf 78.76 / 50
p0 2761 ± 2.721
2840
2820
2800
2780
2760
2740
2720
2700
2680
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

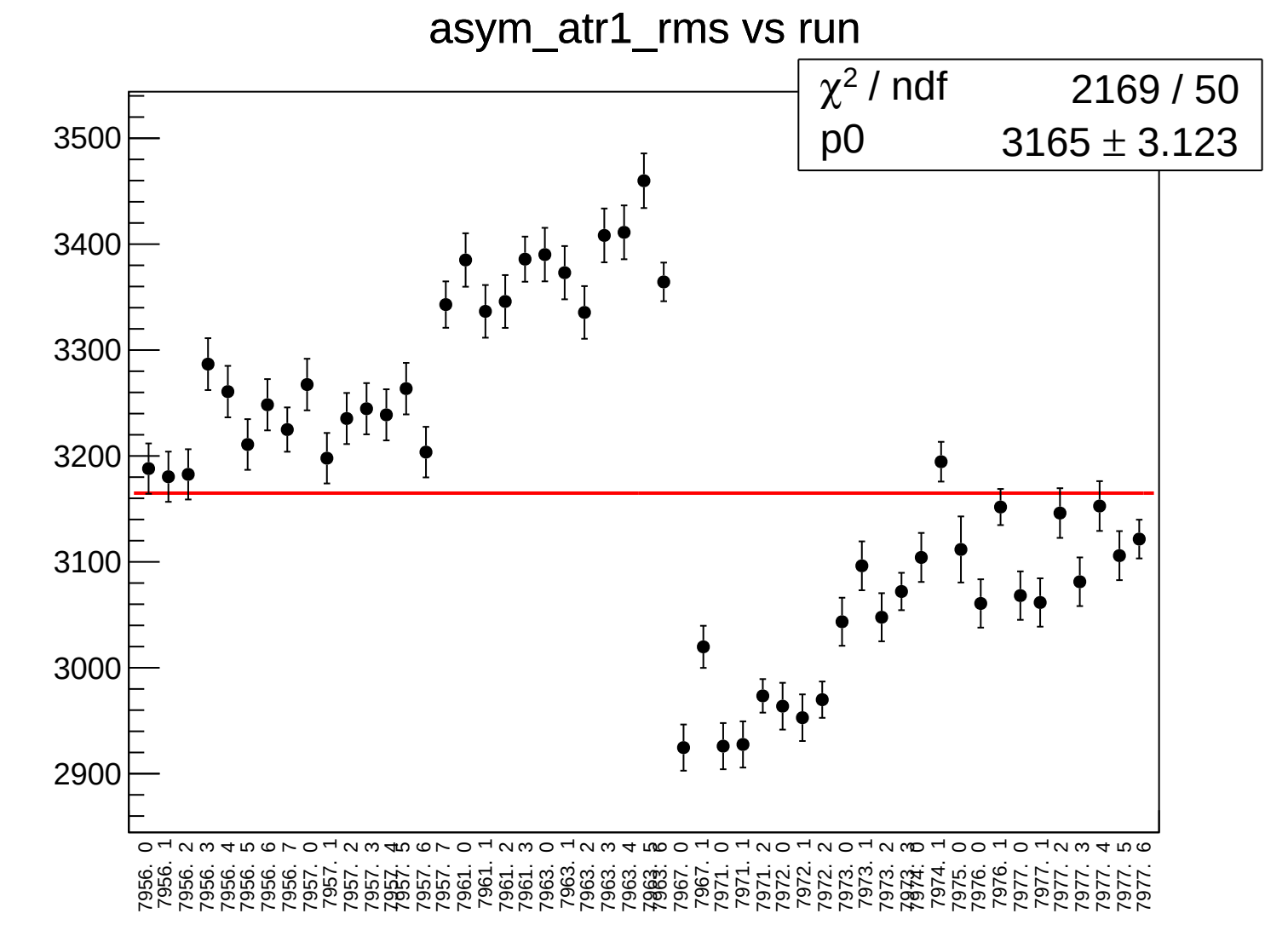

asym_atr1_correction_mean vs run
χ^2 / ndf 54.9 / 50
p0 1456 ± 2062
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 8.135
Std Dev 52.56
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

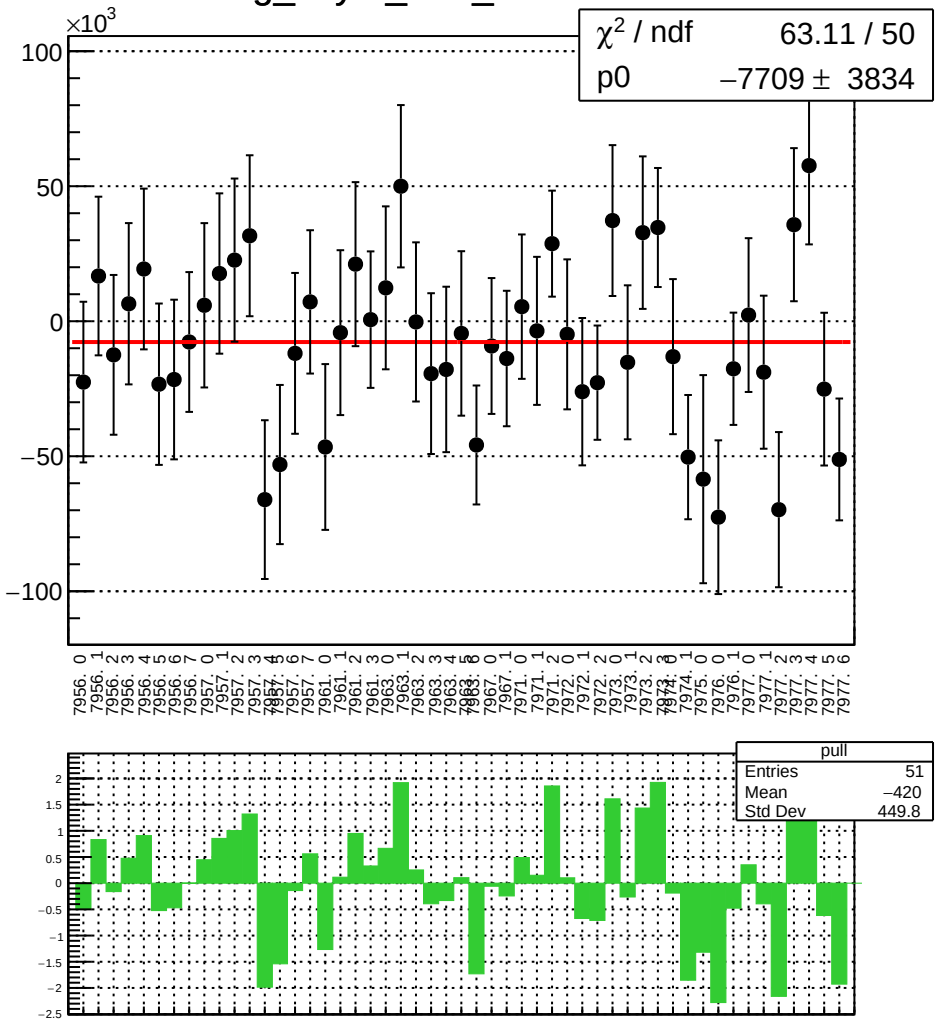

pull1D
Entries 51
Mean −0.01186
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

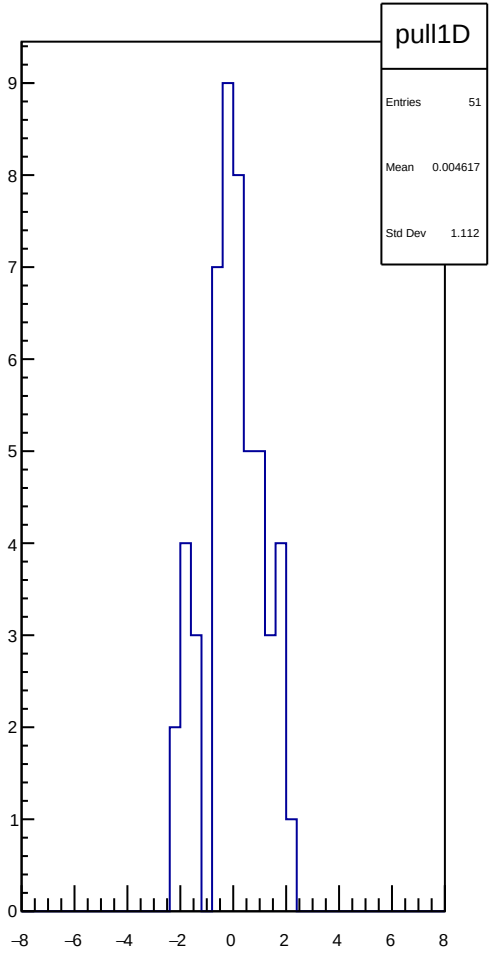

asym_atr1_correction_rms vs run
χ² / ndf 3.58e+04 / 50
p0 1453 ± 1.458
2000
1800
1600
1400
1200
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

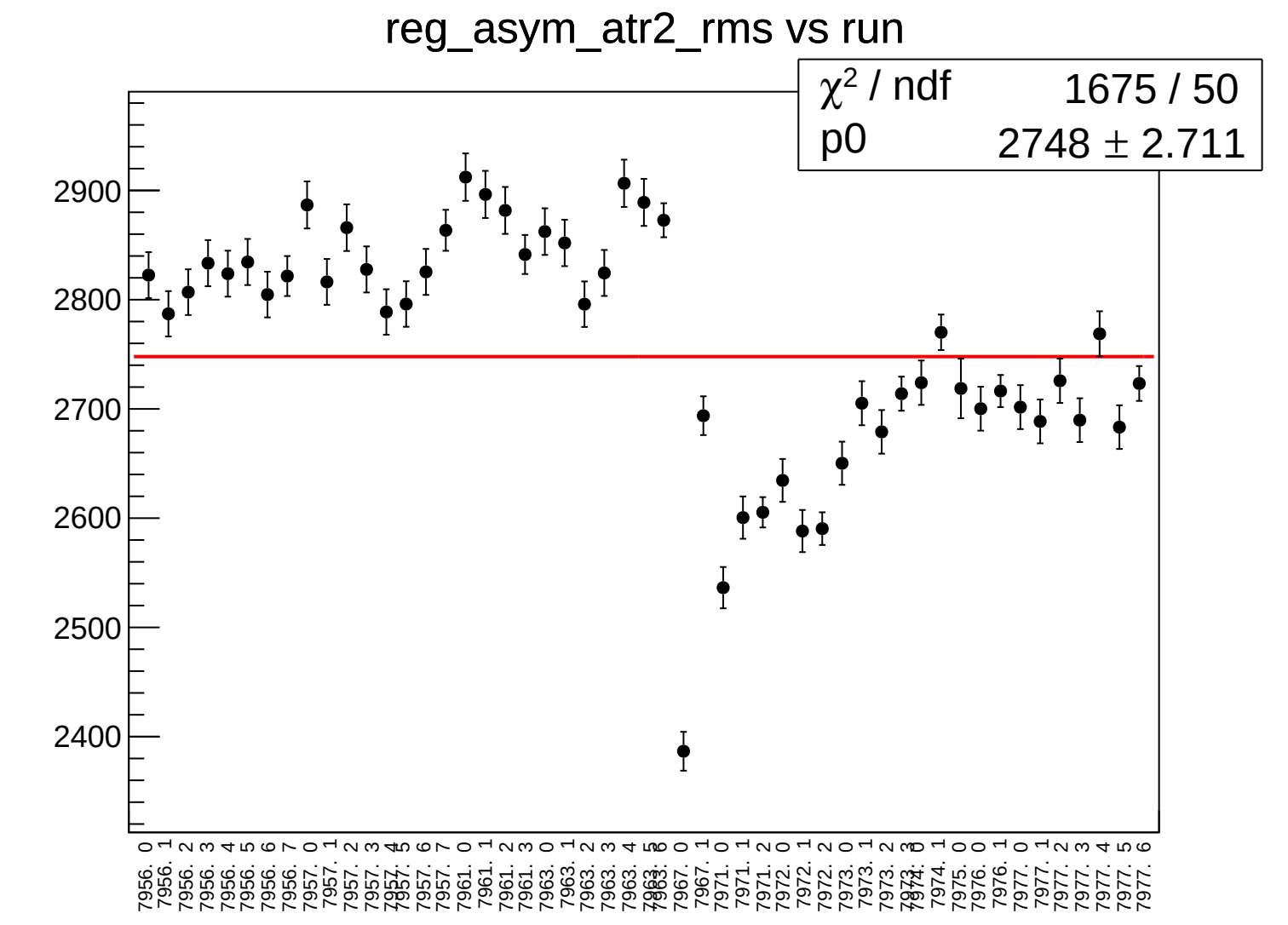

asym_atr1_mean vs run
×10^3
χ² / ndf 49.42 / 50
p0 −4943 ± 4417
100
50
0
−50
−100
pull
Entries 51
Mean 77.17
Std Dev 27
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

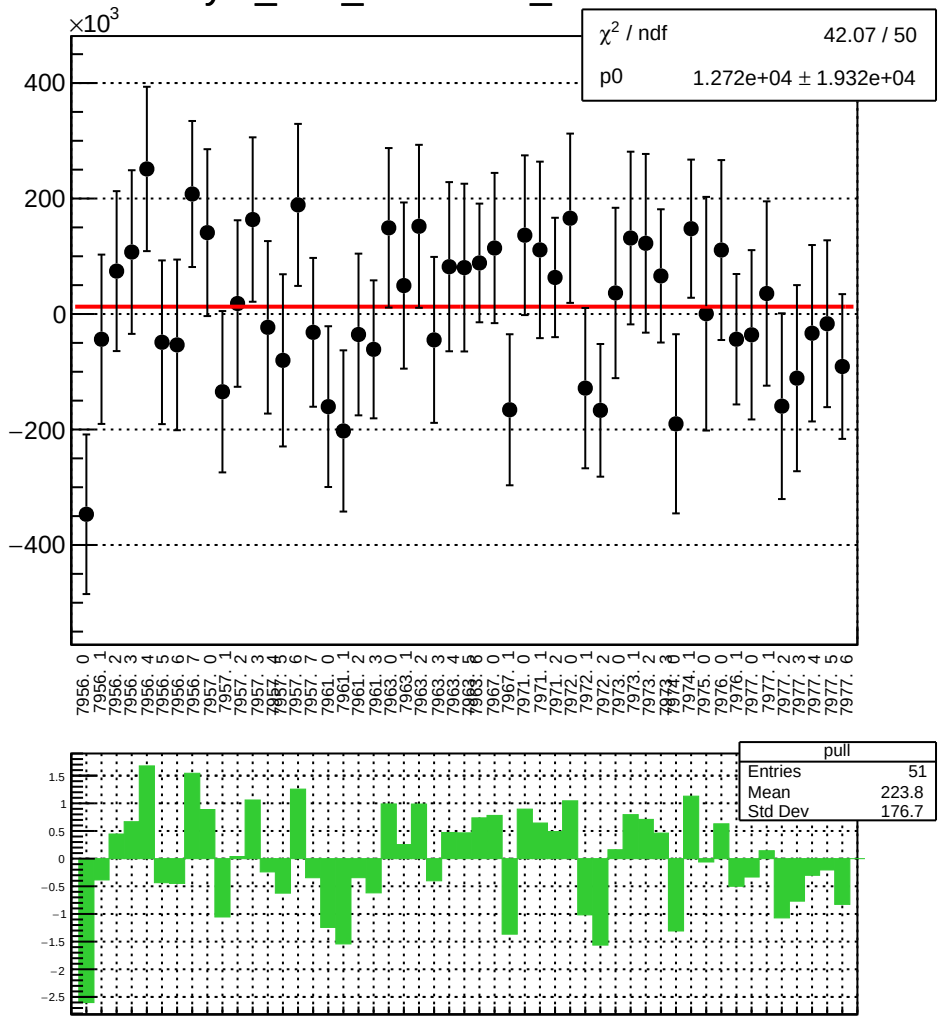

pull1D
Entries 51
Mean 0.02026
Std Dev 0.9841
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

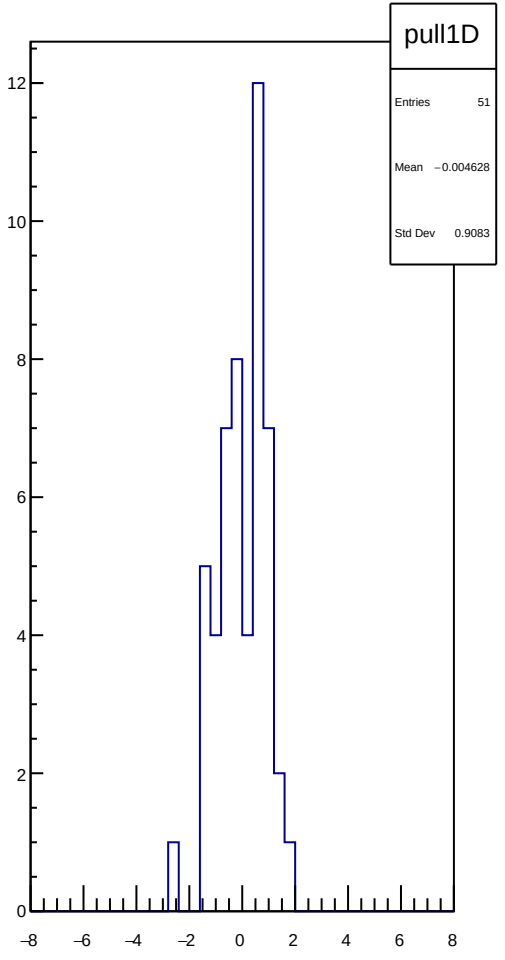

asym_atr1_rms vs run
χ² / ndf 2169 / 50
p0 3165 ± 3.123
3500
3400
3300
3200
3100
3000
2900
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

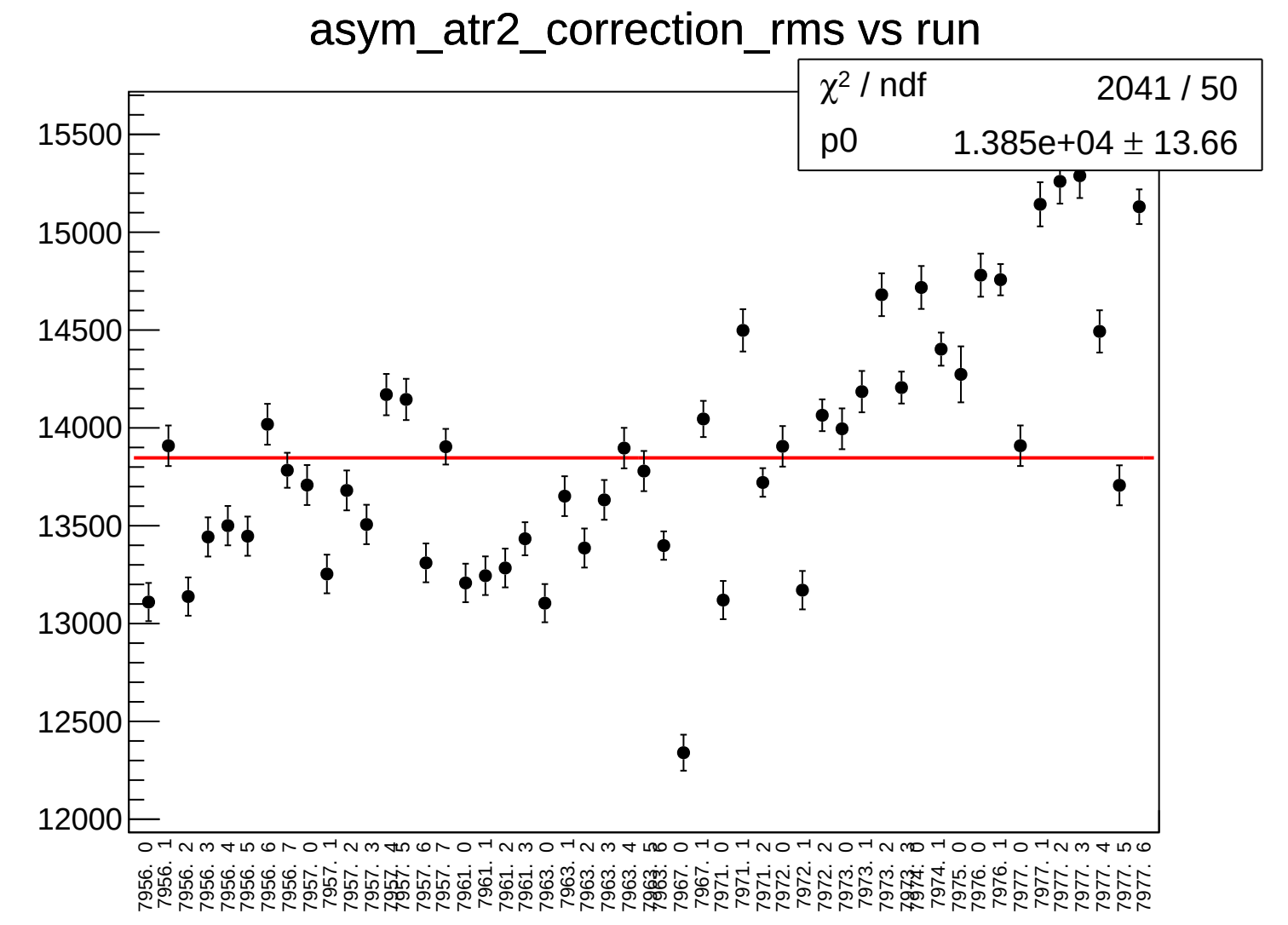

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 63.11 / 50
p0 −7709 ± 3834
100
50
0
−50
−100
pull
Entries 51
Mean −420
Std Dev 449.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

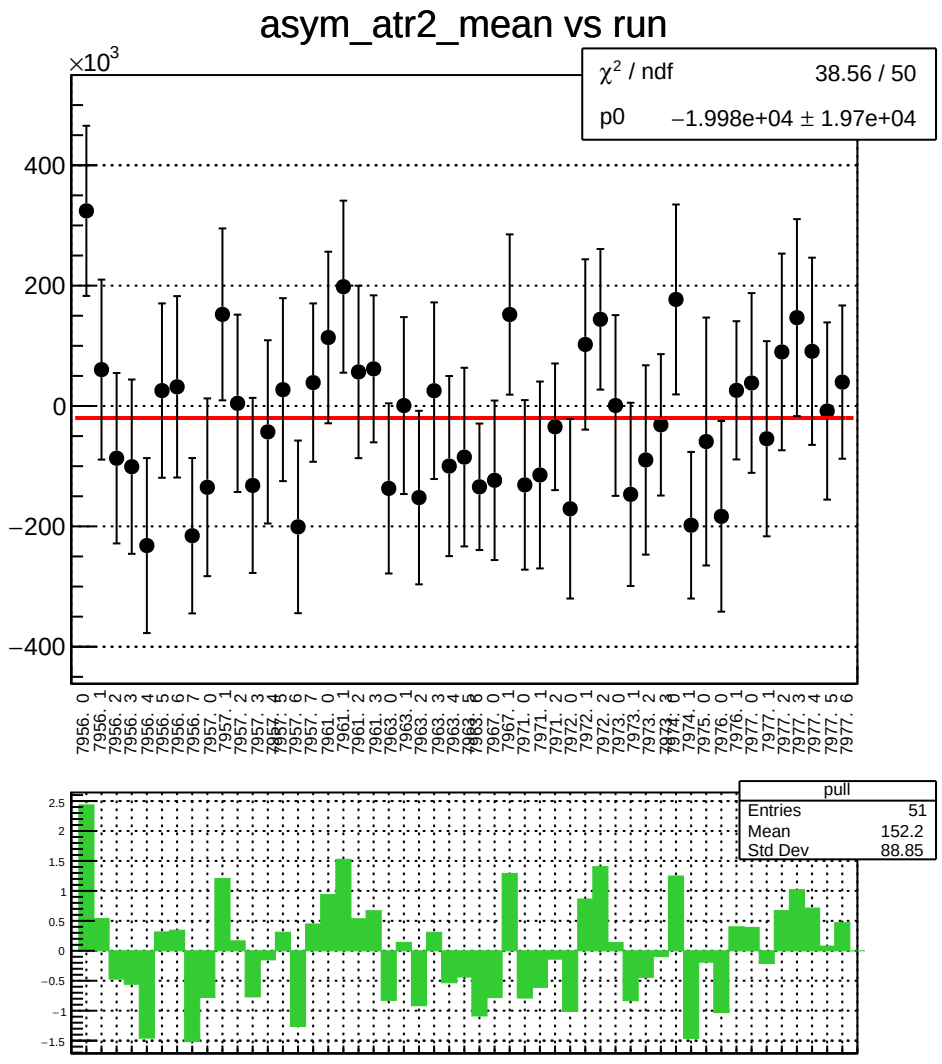

pull1D
Entries 51
Mean 0.004617
Std Dev 1.112
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

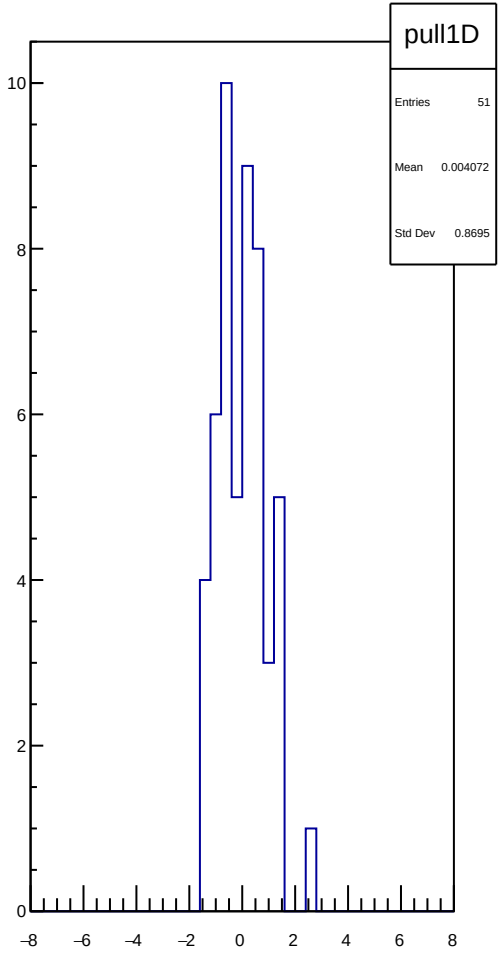

reg_asym_atr2_rms vs run
χ² / ndf 1675 / 50
p0 2748 ± 2.711
2900
2800
2700
2600
2500
2400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

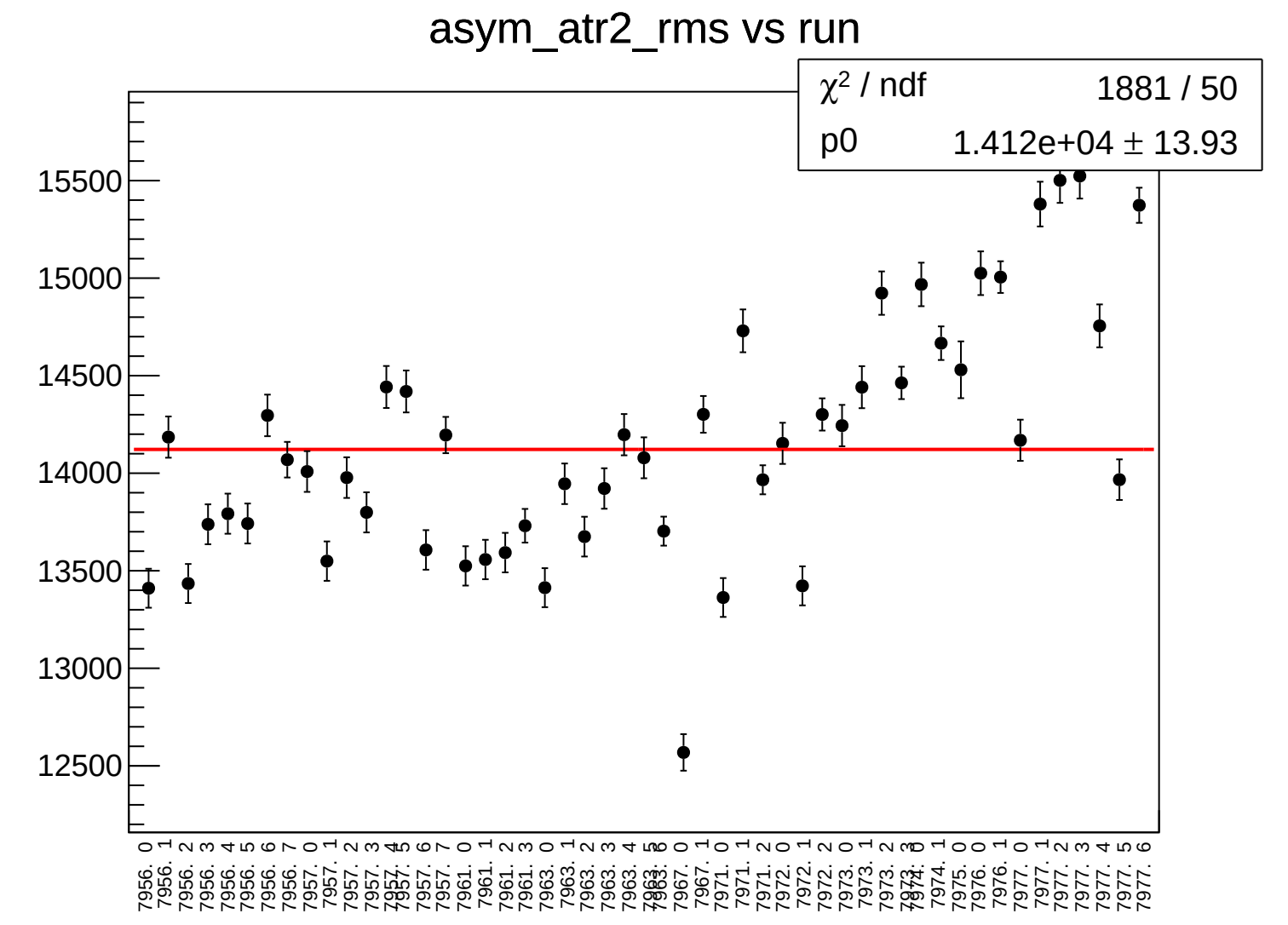

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 42.07 / 50
p0 1.272e+04 ± 1.932e+04
pull
Entries 51
Mean 223.8
Std Dev 176.7

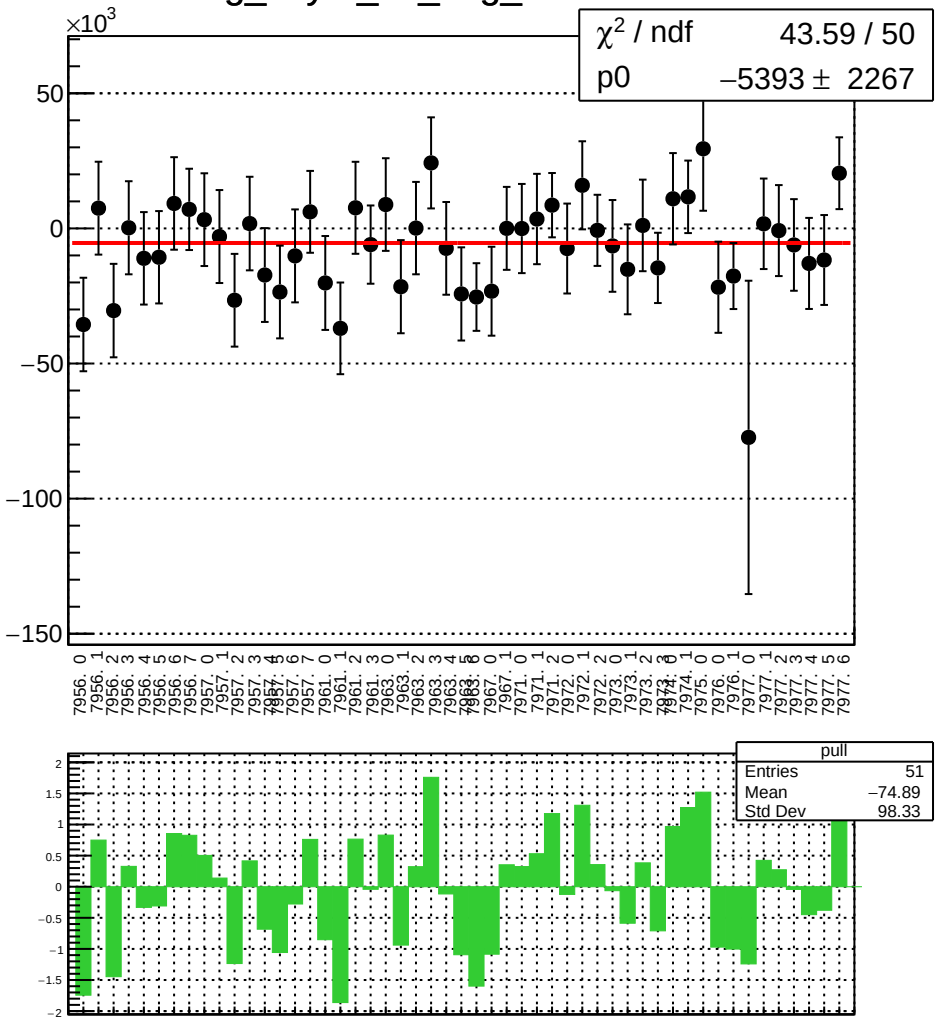

pull1D
Entries 51
Mean −0.004628
Std Dev 0.9083

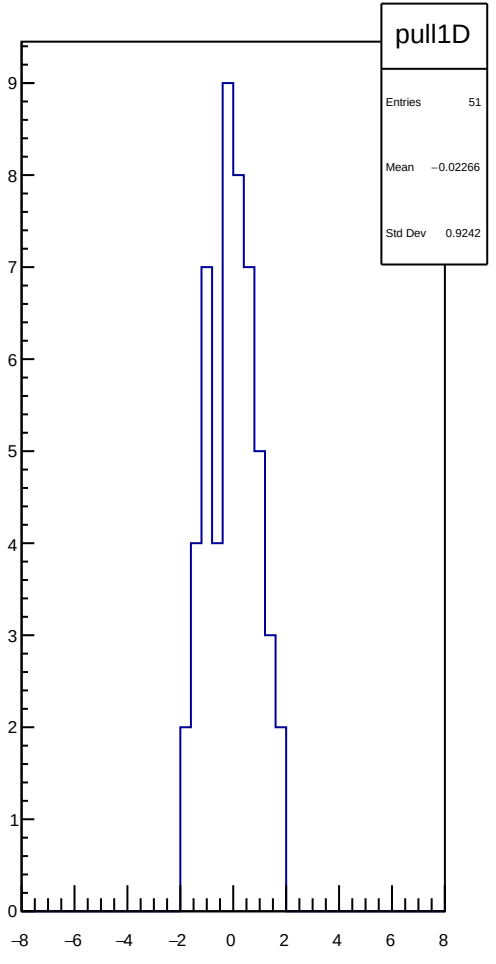

asym_atr2_correction_rms vs run
χ² / ndf 2041 / 50
p0 1.385e+04 ± 13.66
15500
15000
14500
14000
13500
13000
12500
12000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

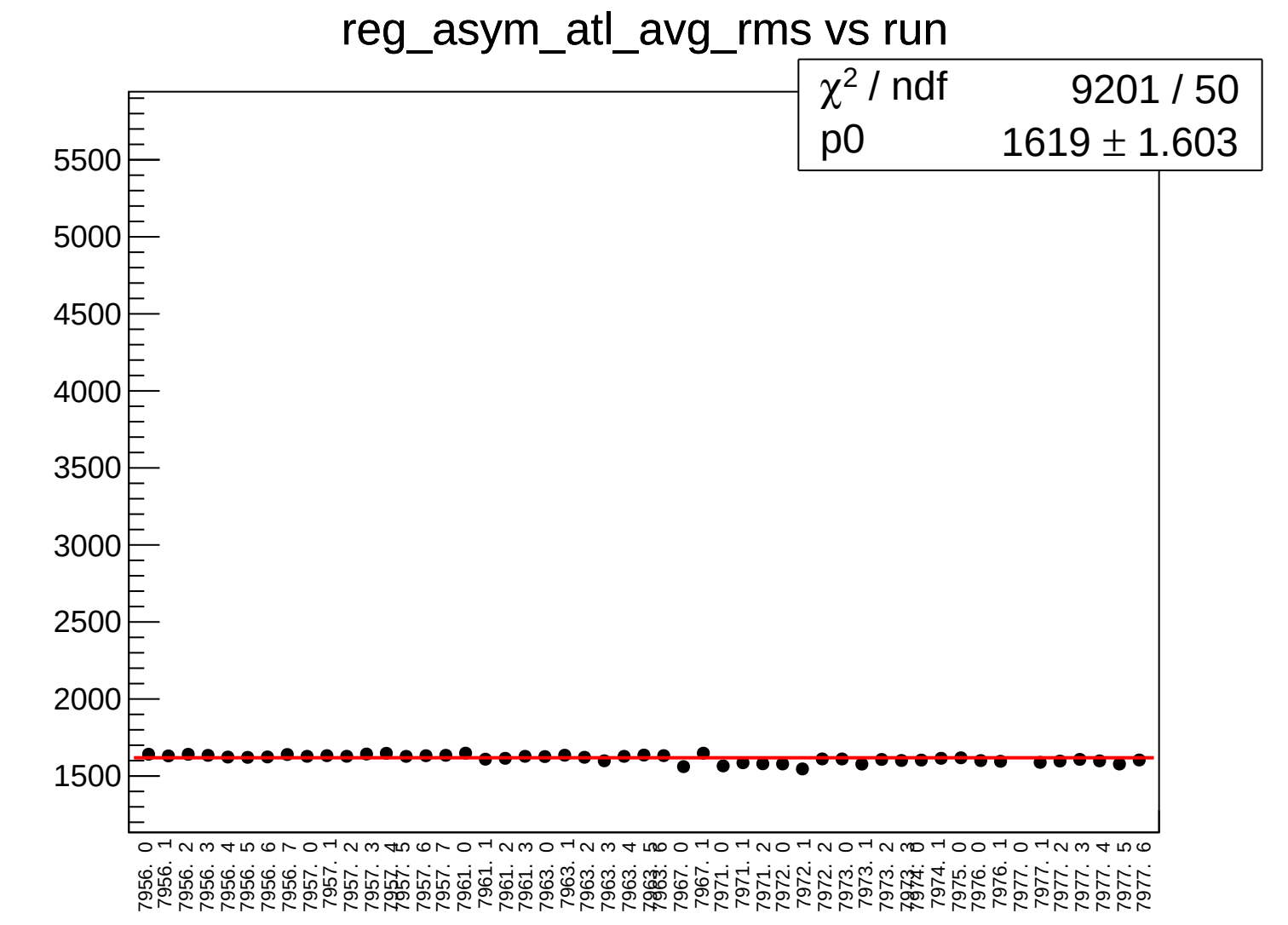

asym_atr2_mean vs run
×10^3
χ² / ndf 38.56 / 50
p0 −1.998e+04 ± 1.97e+04
400
200
0
−200
−400
pull
Entries 51
Mean 152.2
Std Dev 88.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.004072
Std Dev 0.8695
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ² / ndf 1881 / 50
p0 1.412e+04 ± 13.93
15500
15000
14500
14000
13500
13000
12500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 43.59 / 50
p0 −5393 ± 2267
50
0
−50
−100
−150
pull
Entries 51
Mean −74.89
Std Dev 98.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.02266
Std Dev 0.9242
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_avg_rms vs run
χ^2 / ndf 9201 / 50
p0 1619 ± 1.603
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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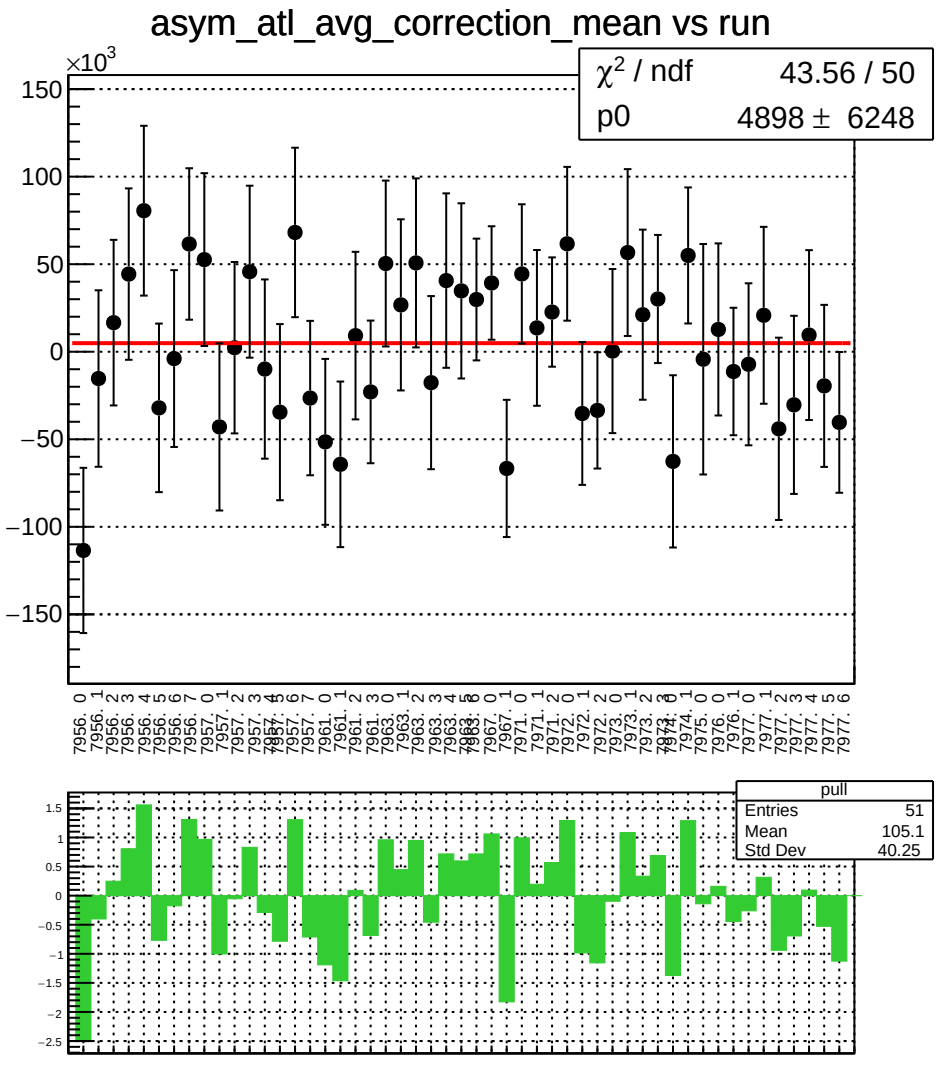
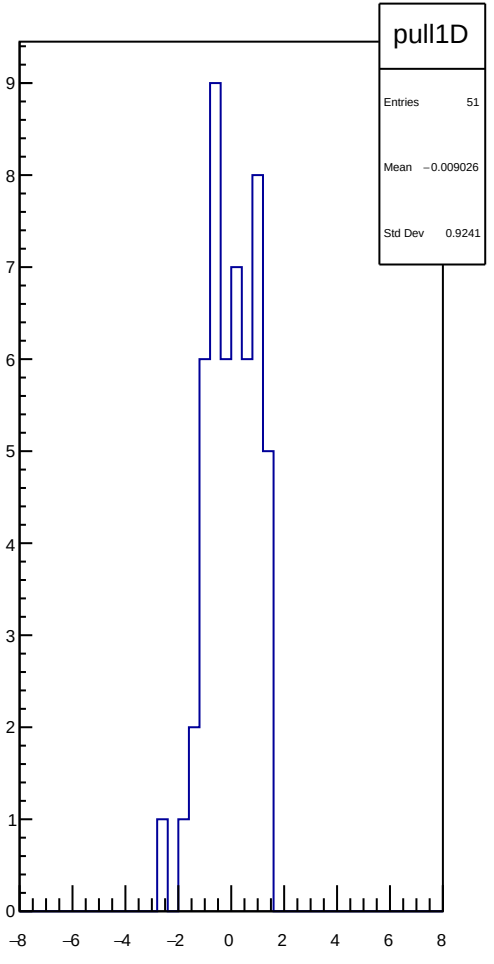
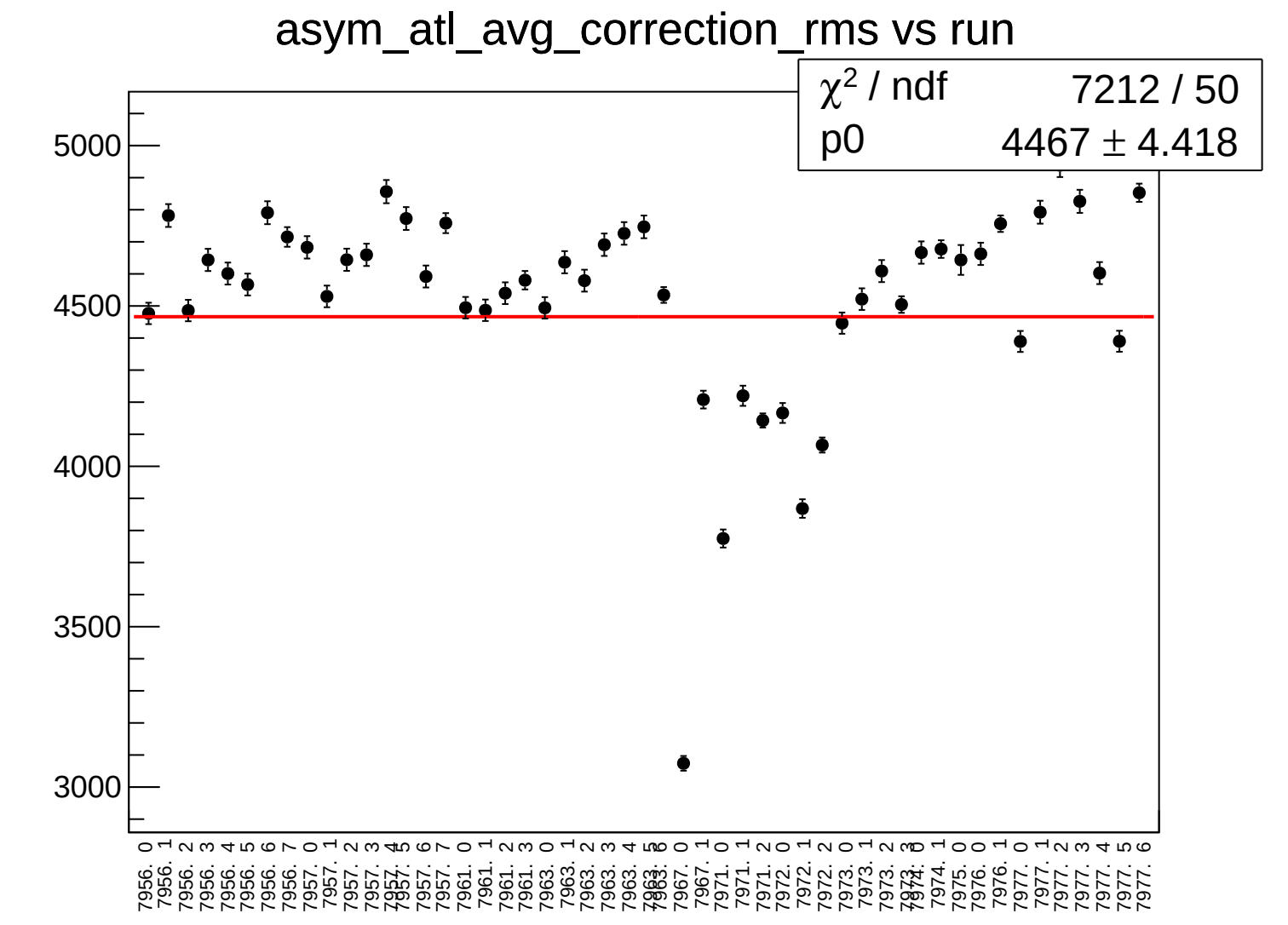
7977. 5
7977. 6


asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 43.56 / 50
p0 4898 ± 6248
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 105.1
Std Dev 40.25
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.009026
Std Dev 0.9241
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_correction_rms vs run
χ² / ndf 7212 / 50
p0 4467 ± 4.418
5000
4500
4000
3500
3000
17956. 0
17956. 1
17956. 2
17956. 3
17956. 4
17956. 5
17956. 6
17956. 7
17957. 0
17957. 1
17957. 2
17957. 3
17957. 4
17957. 5
17957. 6
17957. 7
17961. 0
17961. 1
17961. 2
17961. 3
17963. 0
17963. 1
17963. 2
17963. 3
17963. 4
17967. 0
17967. 1
17971. 0
17971. 1
17971. 2
17972. 0
17972. 1
17972. 2
17973. 0
17973. 1
17973. 2
17974. 1
17975. 0
17976. 0
17976. 1
17977. 0
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17977. 3
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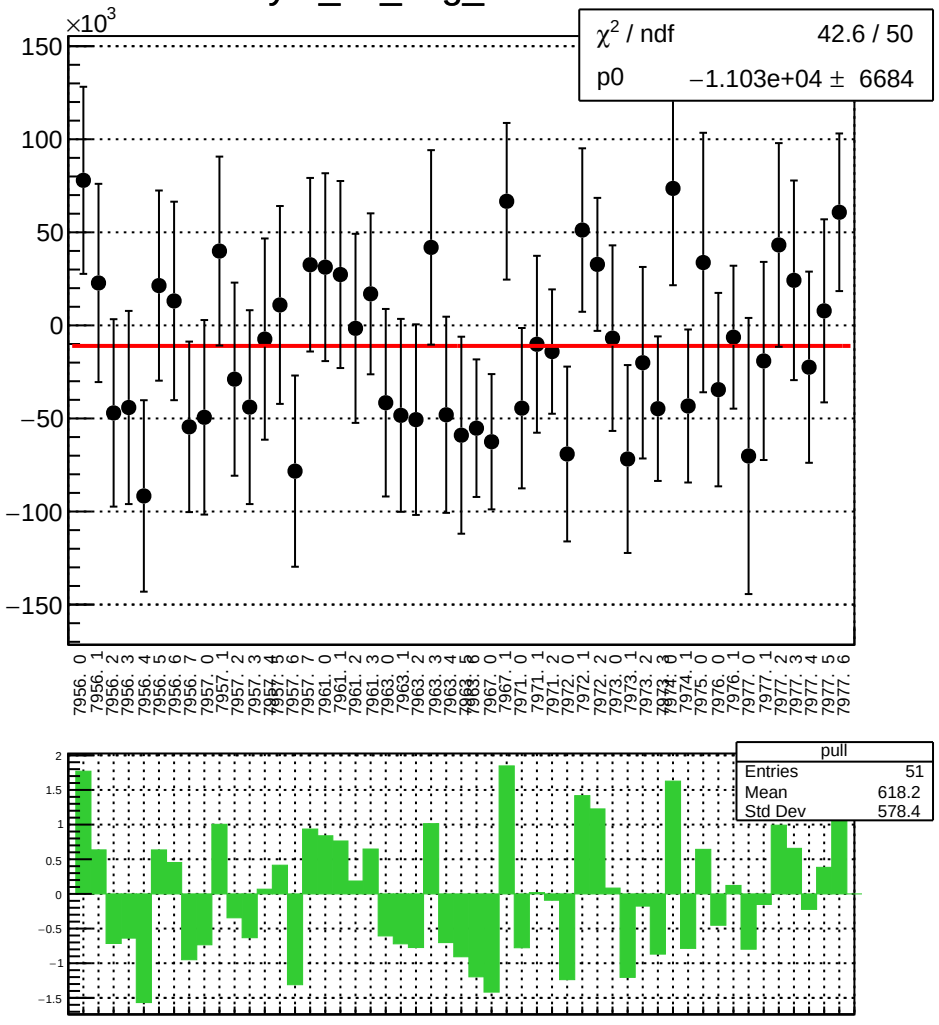
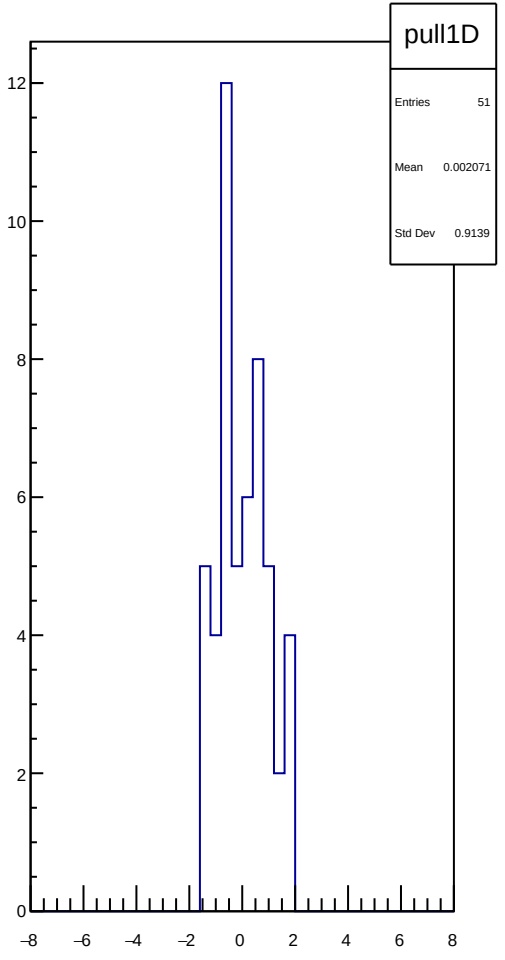
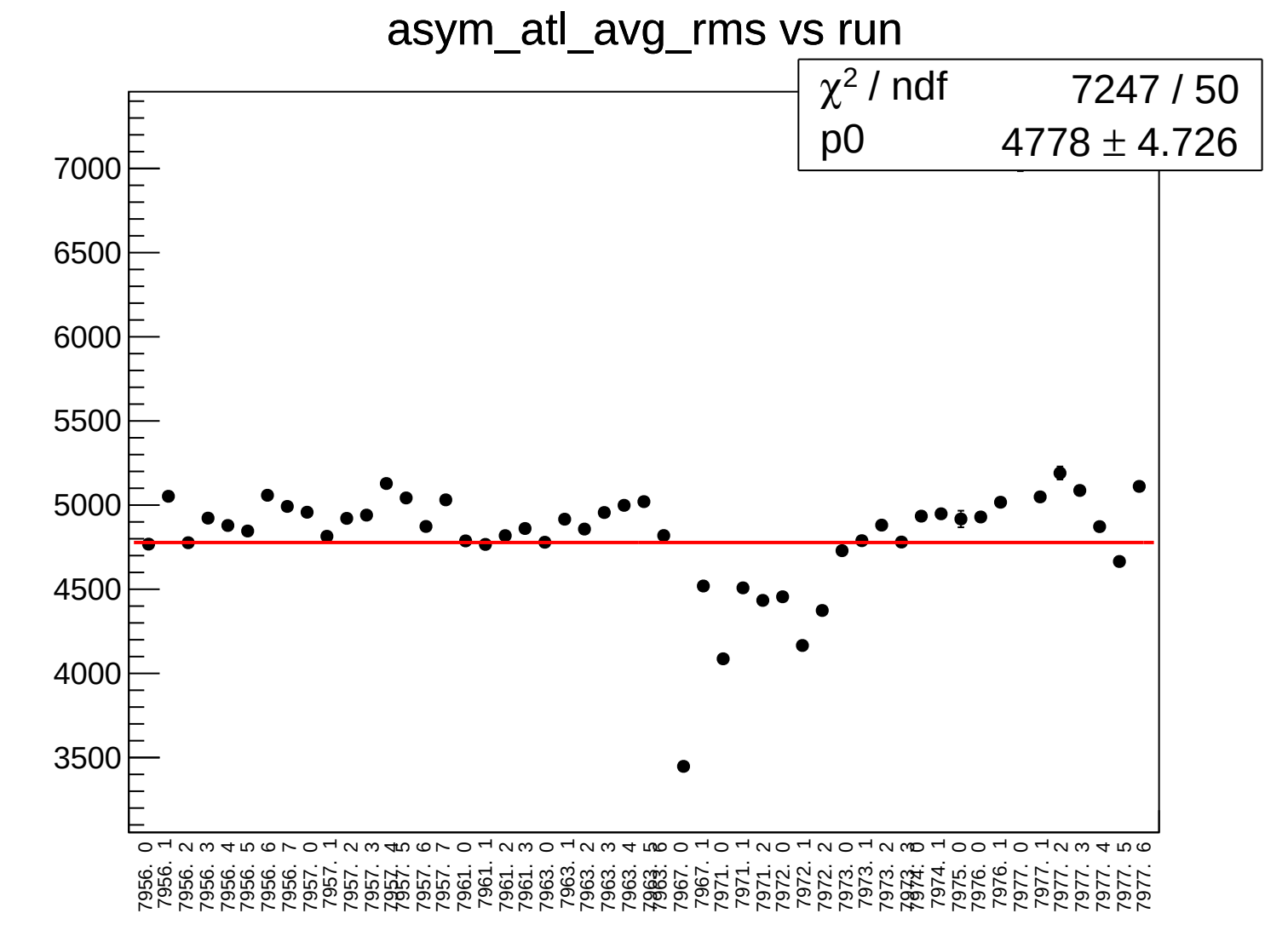
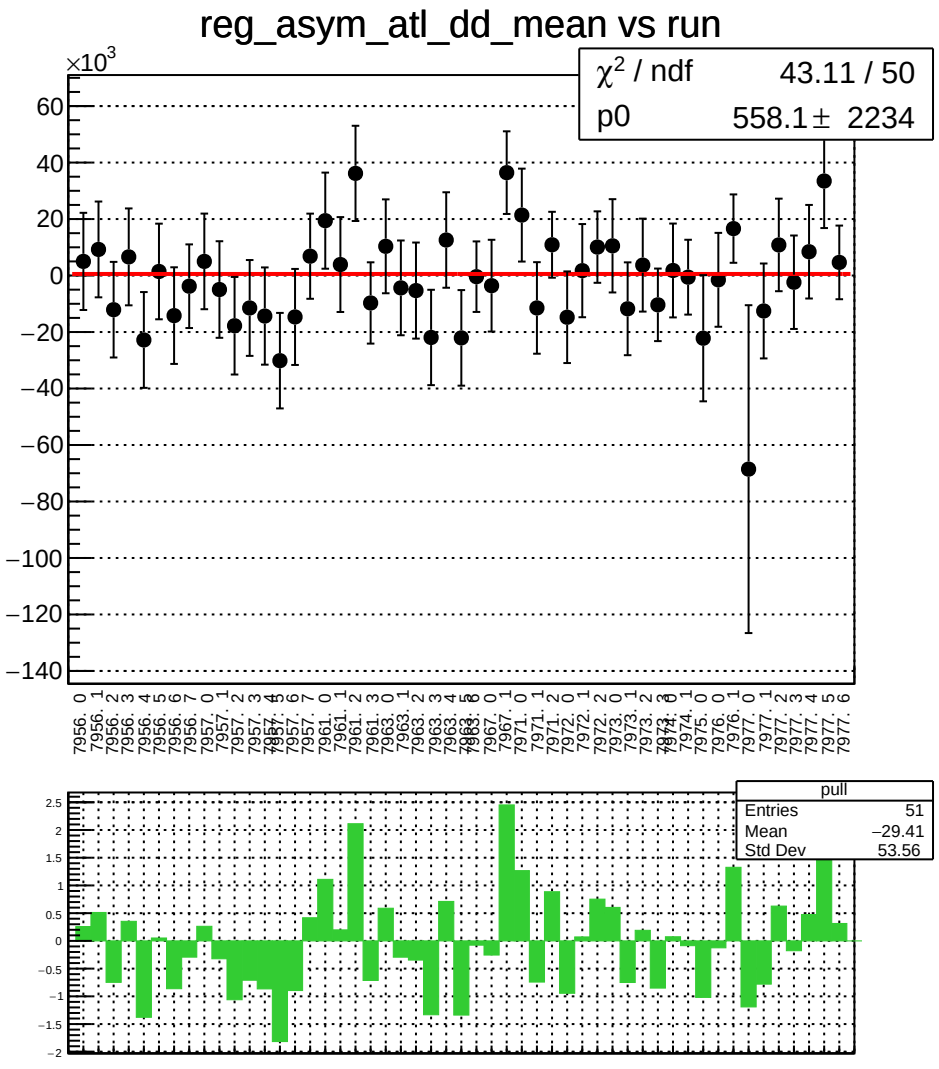
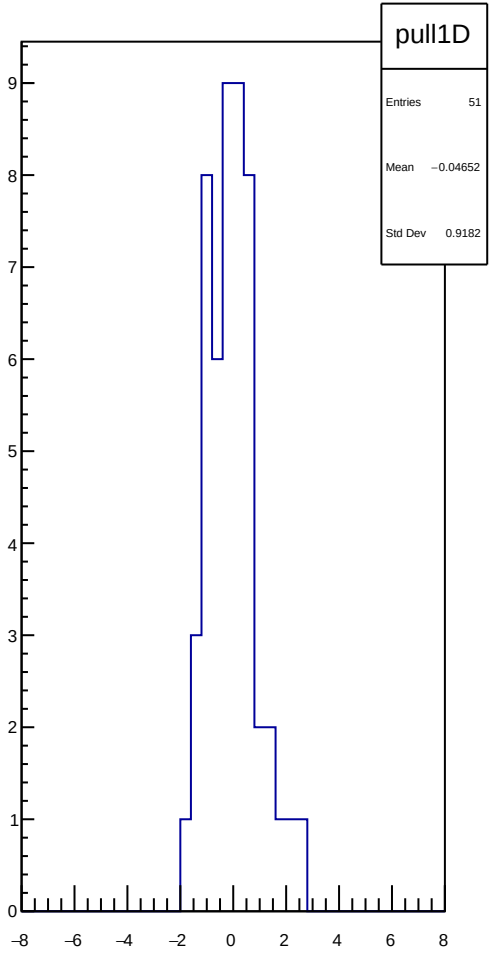
17977. 5
17977. 6

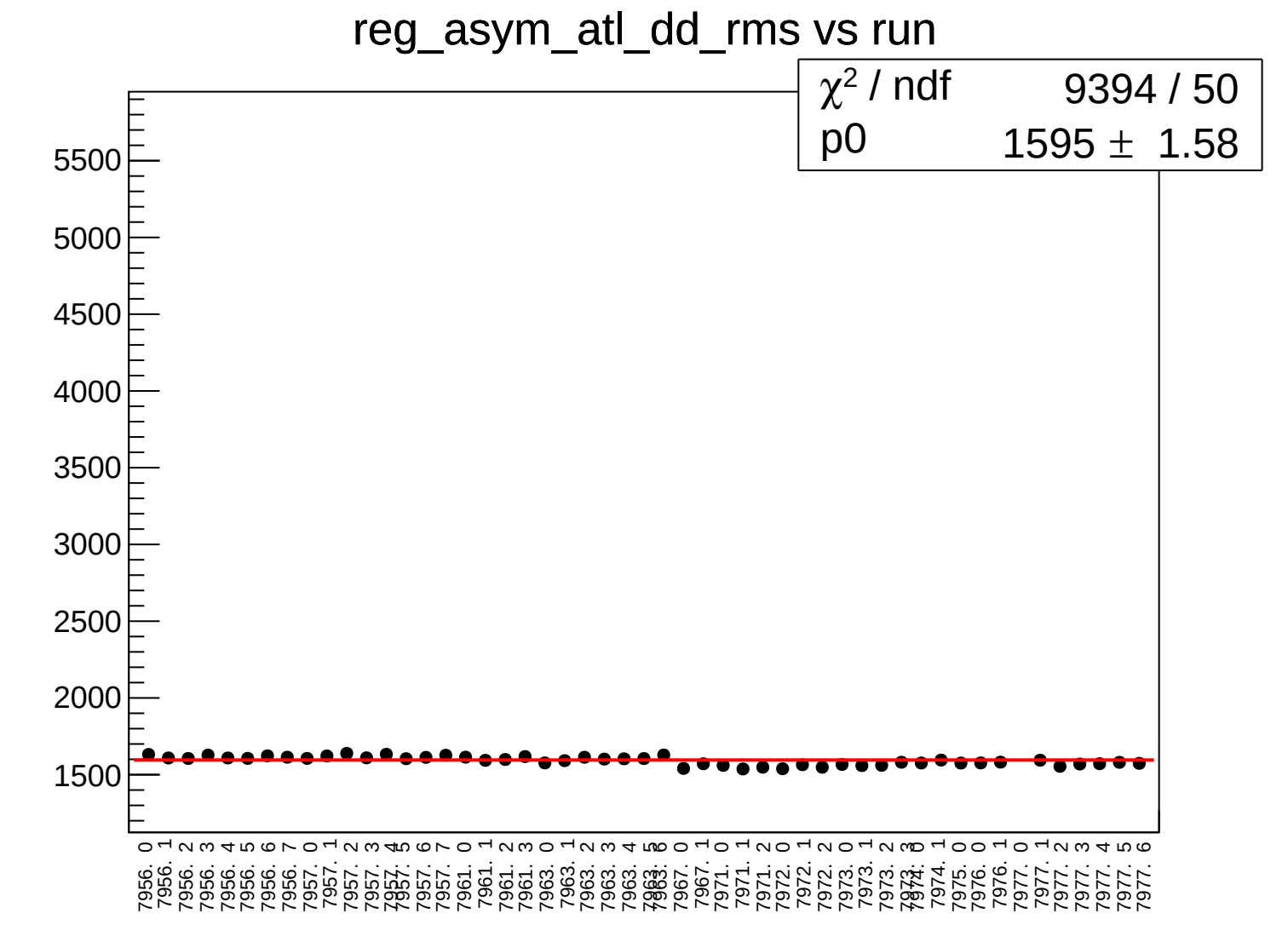

asym_atl_avg_mean vs run
×10^3
χ² / ndf 42.6 / 50
p0 −1.103e+04 ± 6684
pull
Entries 51
Mean 618.2
Std Dev 578.4


pull1D
Entries 51
Mean 0.002071
Std Dev 0.9139


asym_atl_avg_rms vs run
χ² / ndf 7247 / 50
p0 4778 ± 4.726
7000
6500
6000
5500
5000
4500
4000
3500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_atl_dd_mean vs run
χ² / ndf 43.11 / 50
p0 558.1 ± 2234
×10³
pull
Entries 51
Mean −29.41
Std Dev 53.56


pull1D
Entries 51
Mean −0.04652
Std Dev 0.9182


reg_asym_atl_dd_rms vs run
χ² / ndf 9394 / 50
p0 1595 ± 1.58
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
7977. 0
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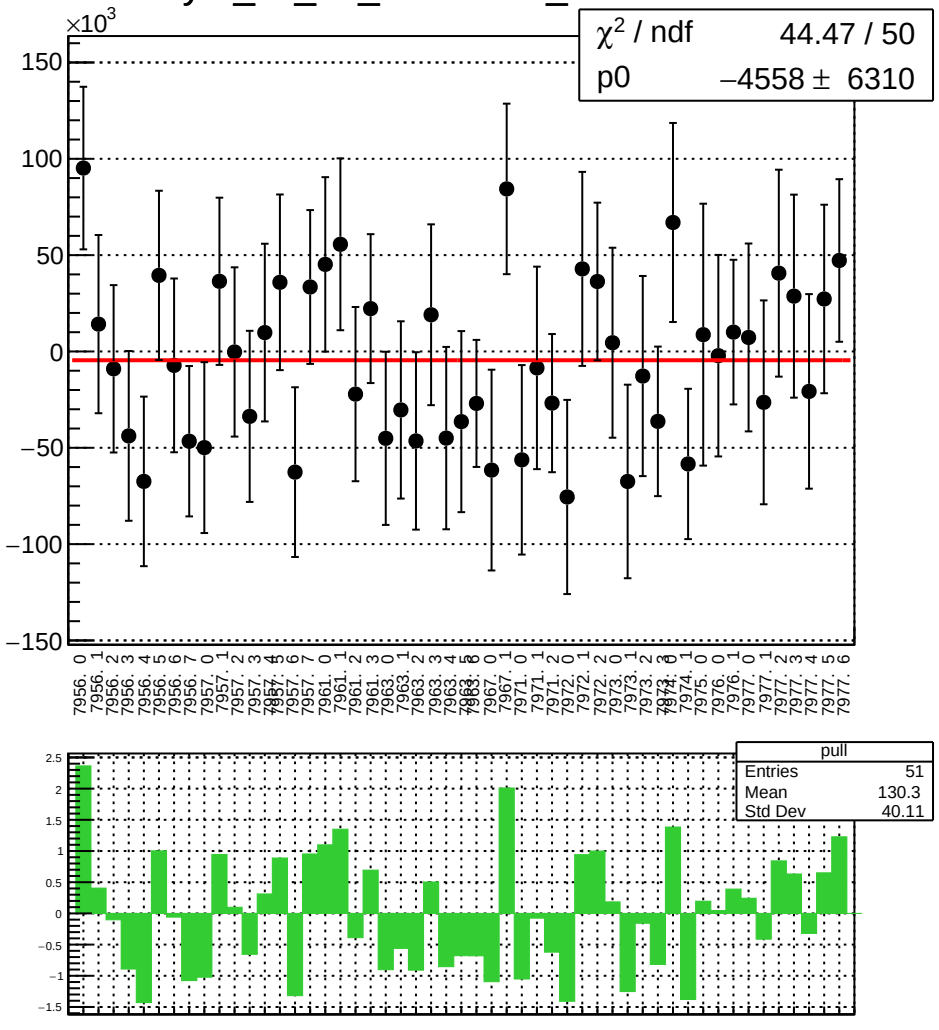
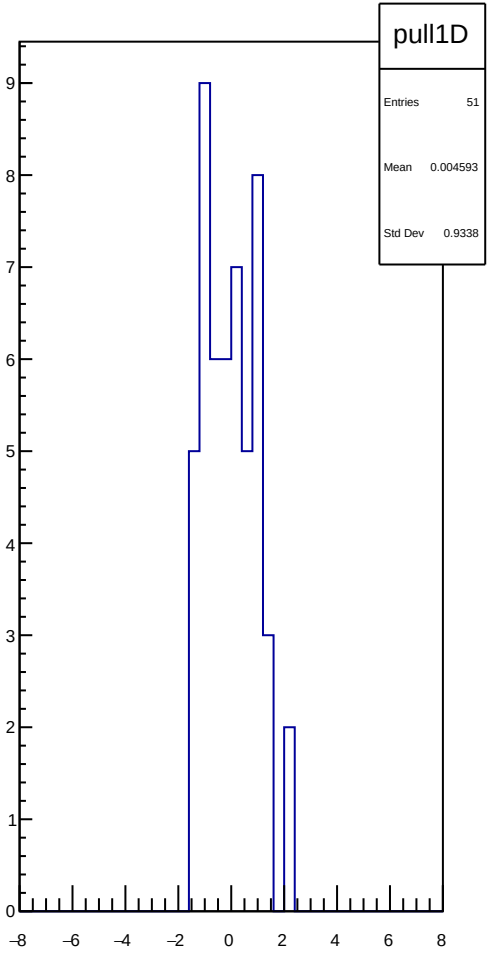
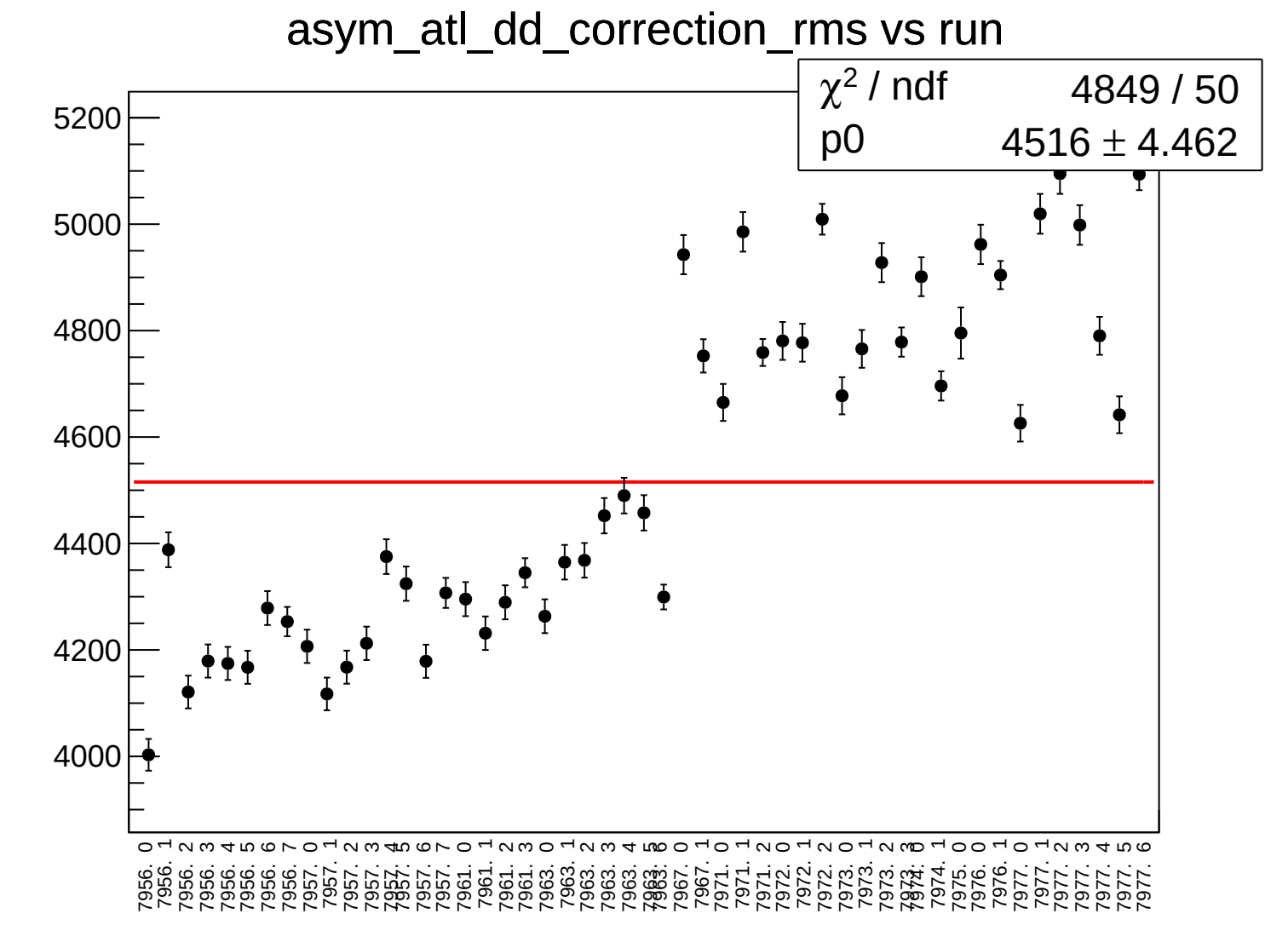
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 44.47 / 50
p0 −4558 ± 6310
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 130.3
Std Dev 40.11
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.004593
Std Dev 0.9338
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 4849 / 50
p0 4516 ± 4.462
5200
5000
4800
4600
4400
4200
4000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7977. 0
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7977. 3
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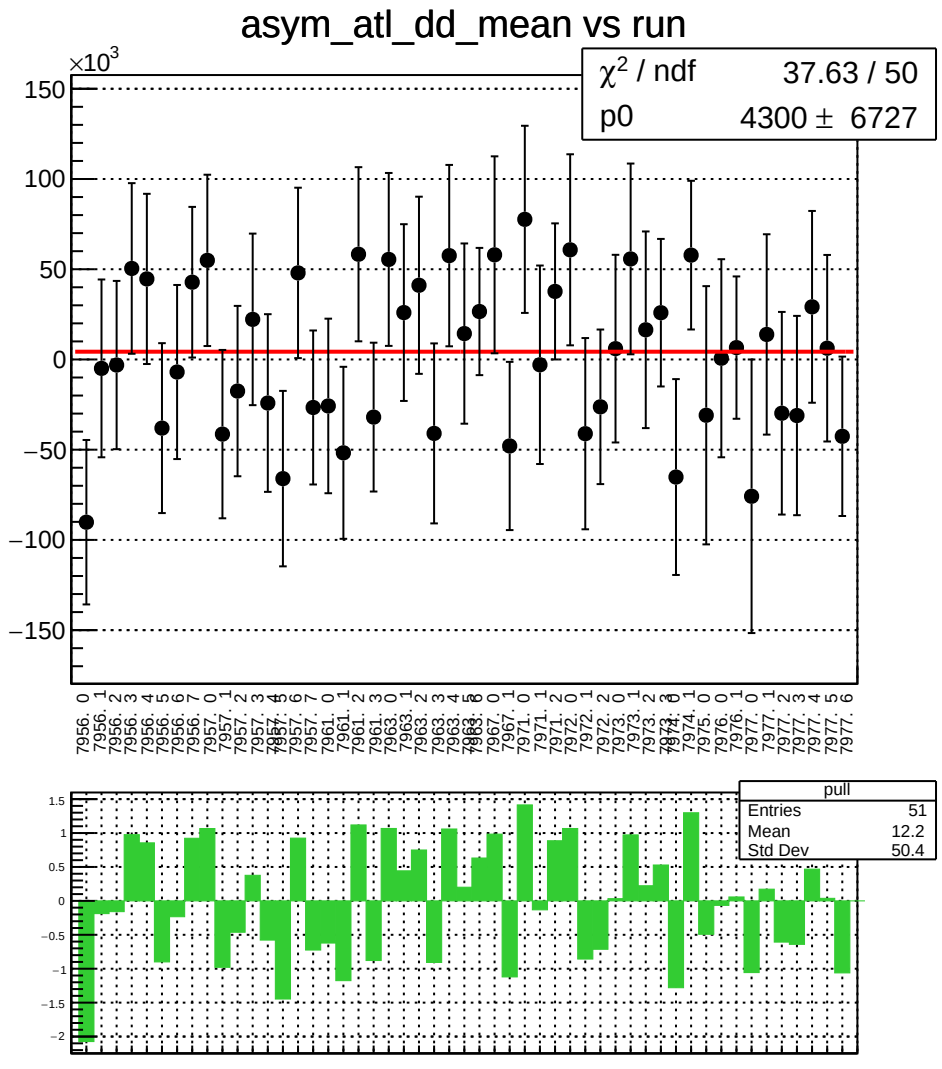
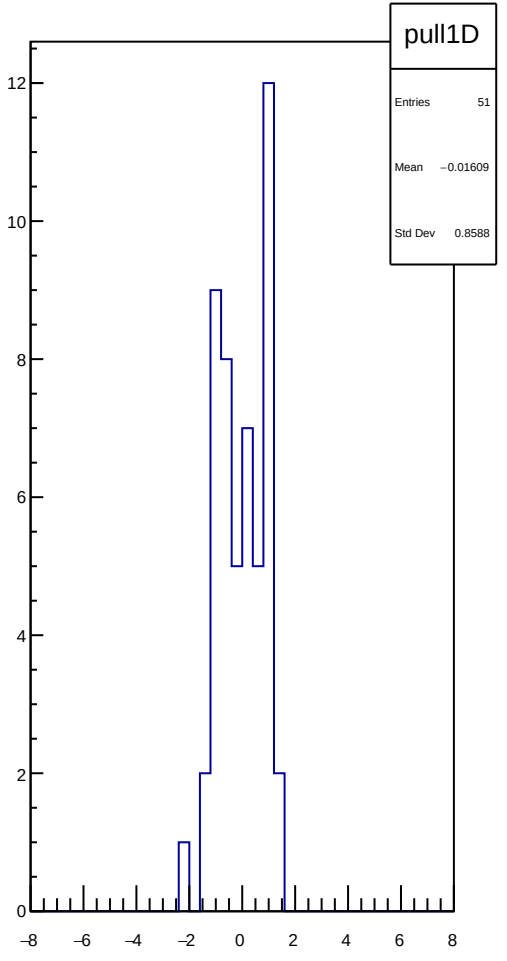
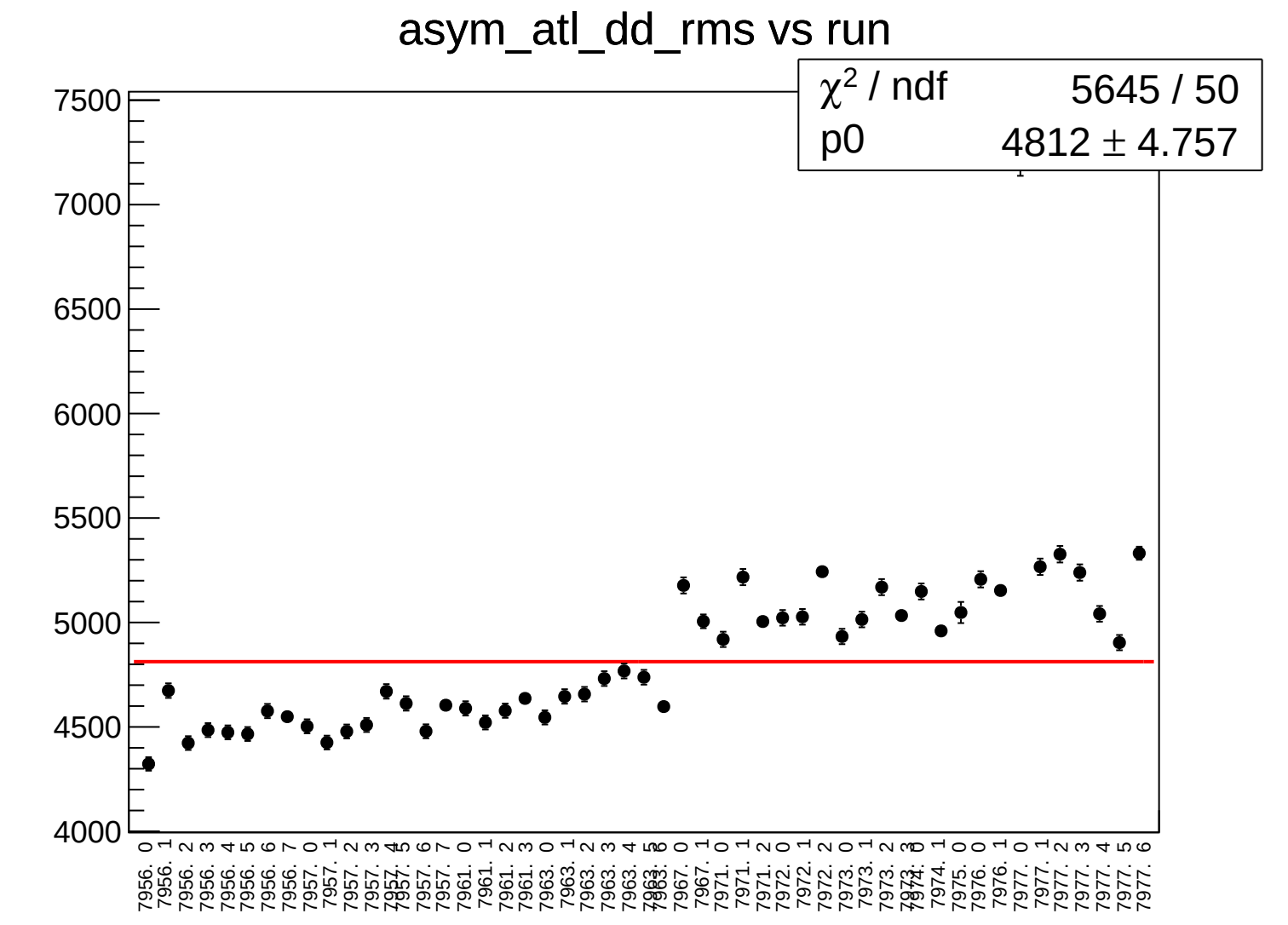
7977. 5
7977. 6


asym_atl_dd_mean vs run
×10^3
χ² / ndf 37.63 / 50
p0 4300 ± 6727
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 12.2
Std Dev 50.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.01609
Std Dev 0.8588
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_rms vs run
χ^2 / ndf 5645 / 50
p0 4812 ± 4.757
7500
7000
6500
6000
5500
5000
4500
4000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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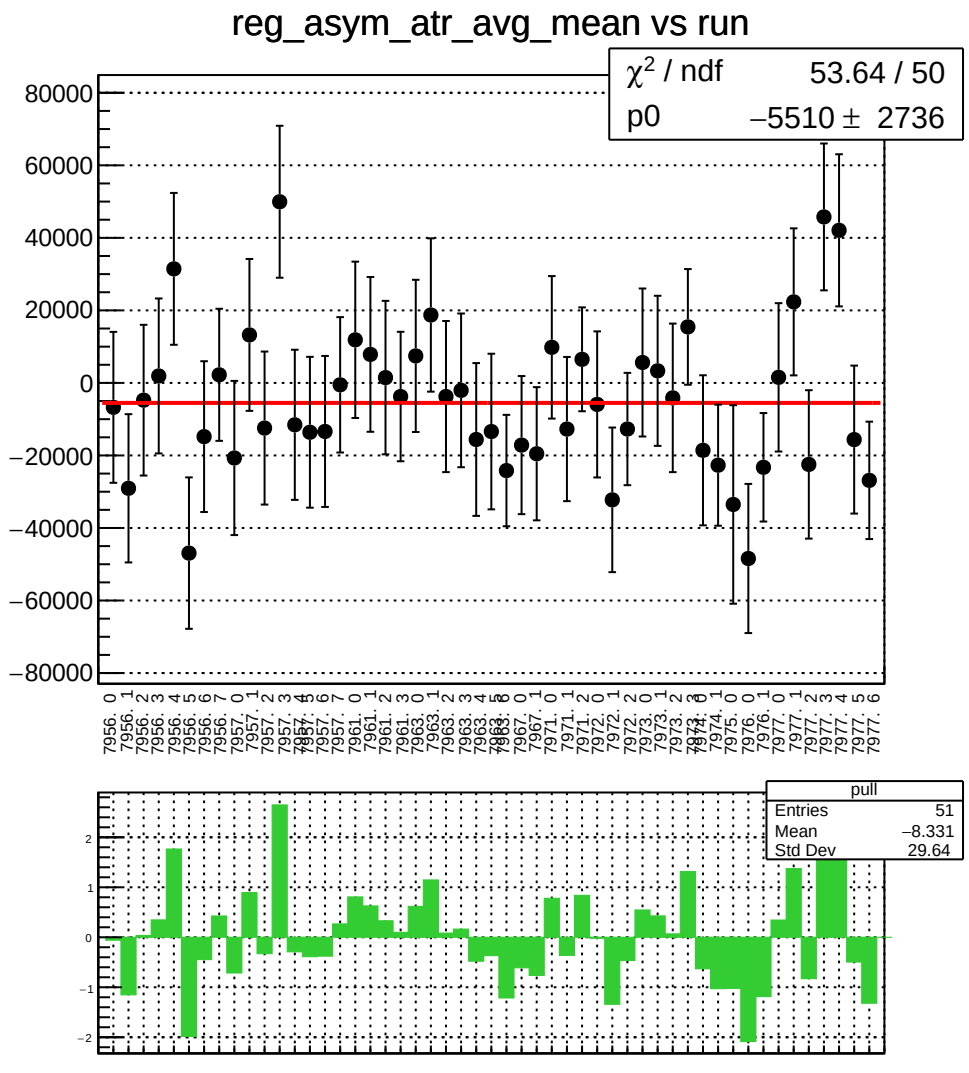
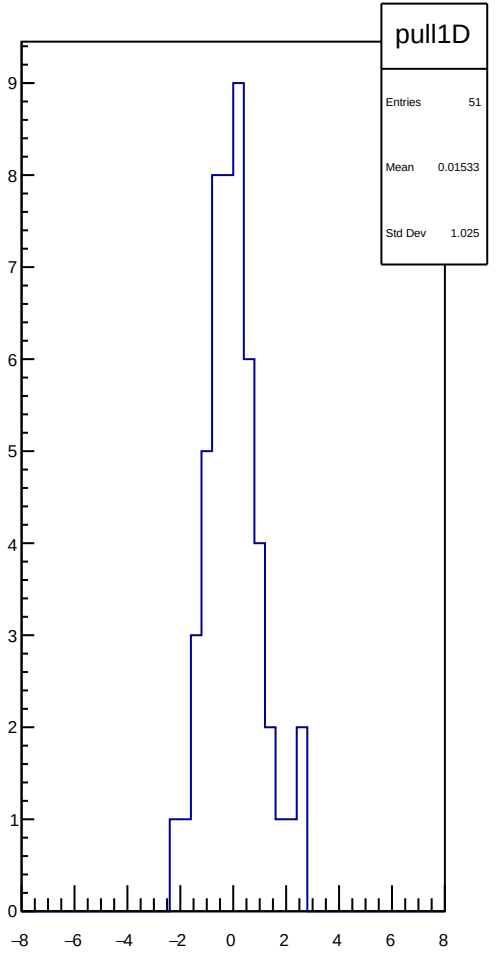
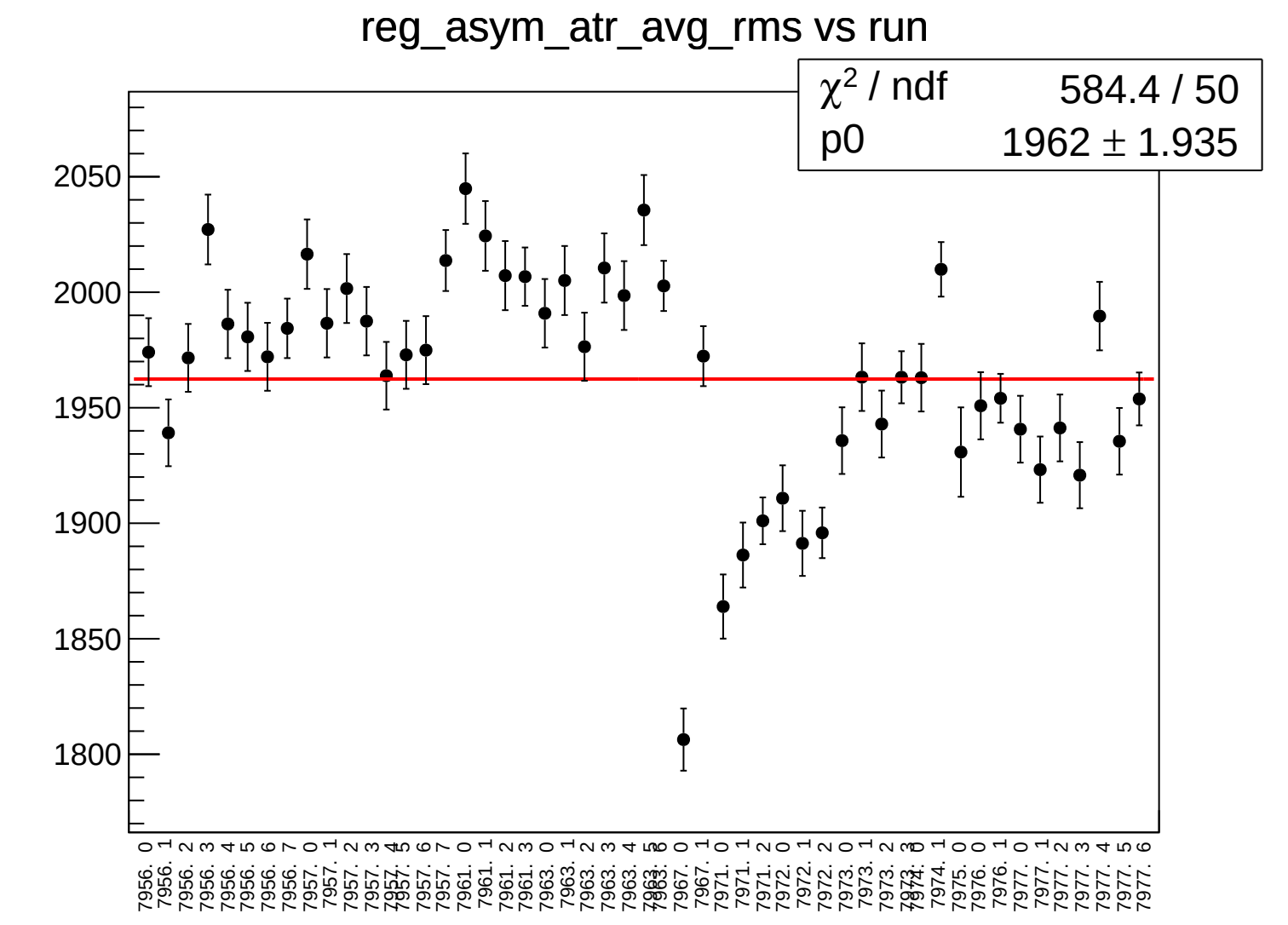
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_atr_avg_mean vs run
χ² / ndf 53.64 / 50
p0 −5510 ± 2736
pull
Entries 51
Mean −8.331
Std Dev 29.64


pull1D
Entries 51
Mean 0.01533
Std Dev 1.025


reg_asym_atr_avg_rms vs run
χ² / ndf 584.4 / 50
p0 1962 ± 1.935
2050
2000
1950
1900
1850
1800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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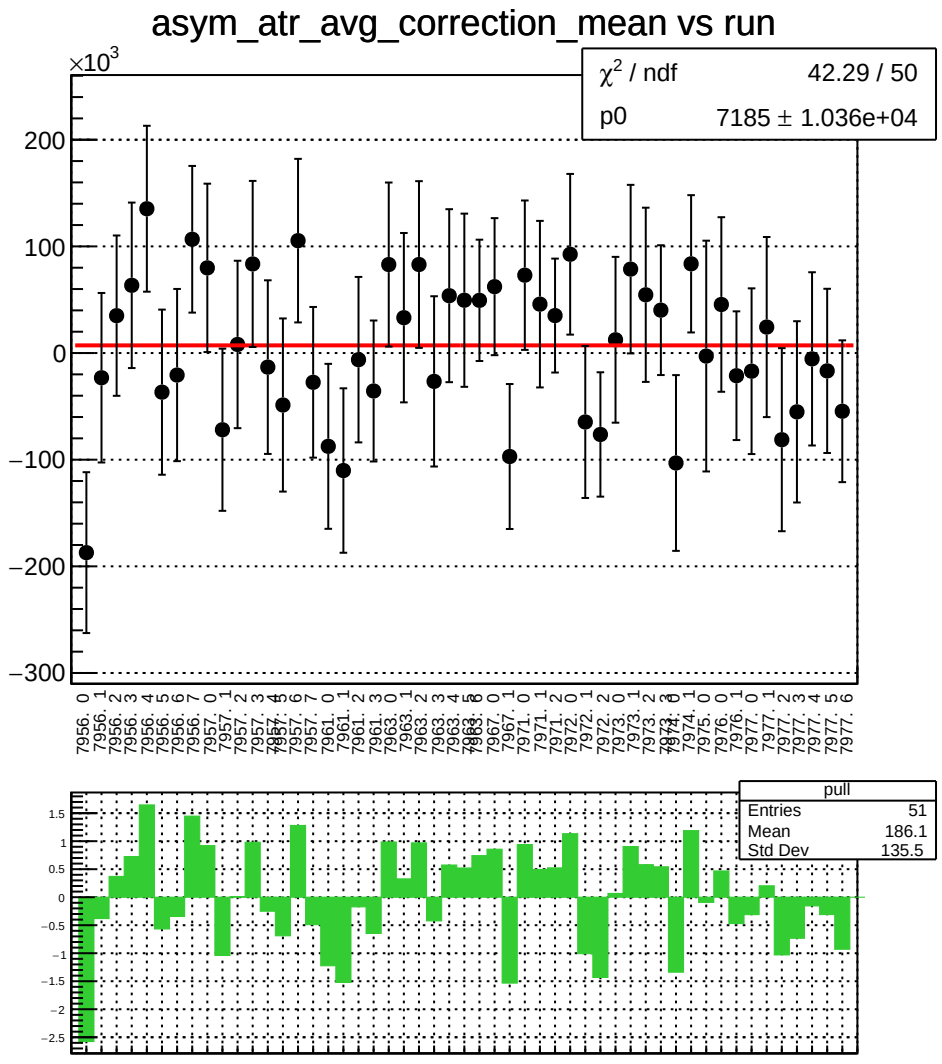
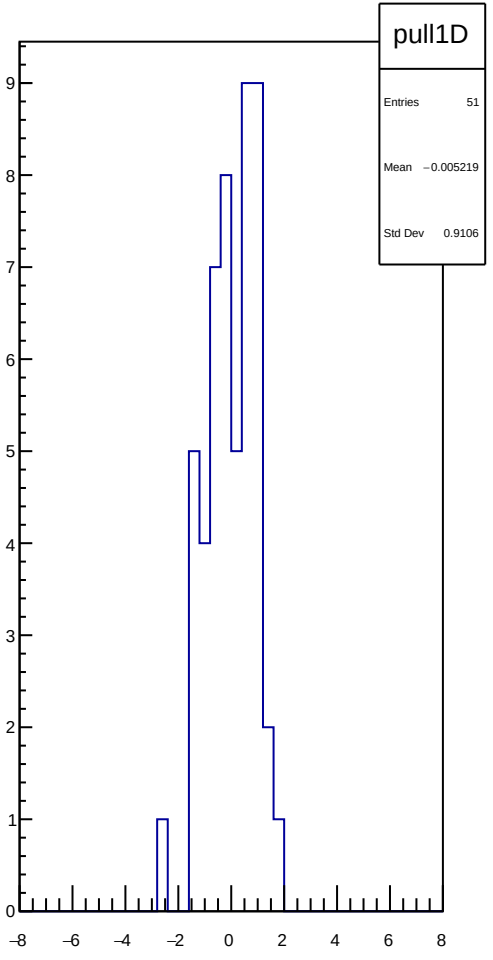
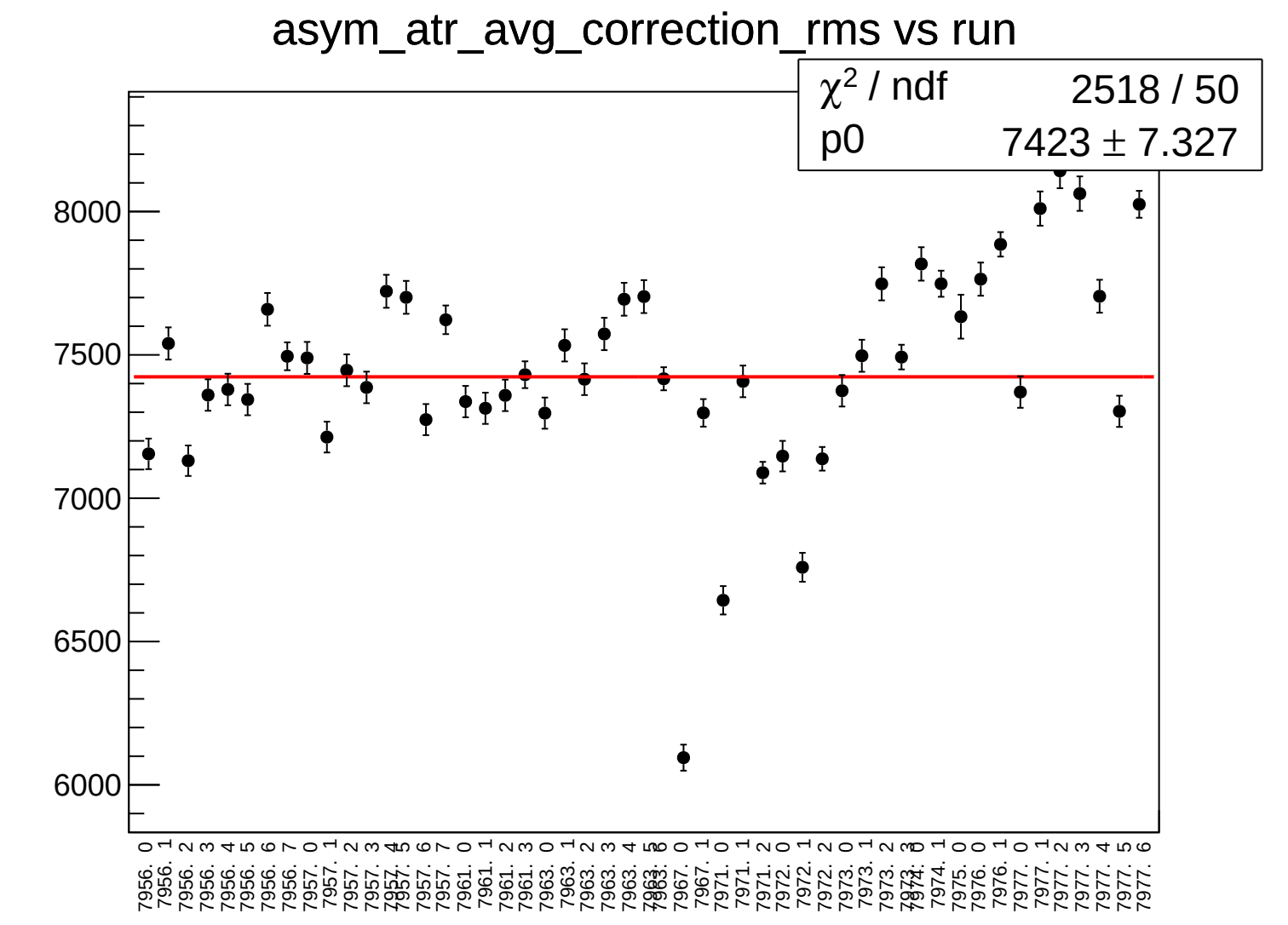
7977. 3
7977. 4
7977. 5
7977. 6


asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 42.29 / 50
p0 7185 ± 1.036e+04
200
100
0
−100
−200
−300
pull
Entries 51
Mean 186.1
Std Dev 135.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.005219
Std Dev 0.9106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr_avg_correction_rms vs run
χ² / ndf 2518 / 50
p0 7423 ± 7.327
8000
7500
7000
6500
6000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 0
7974. 1
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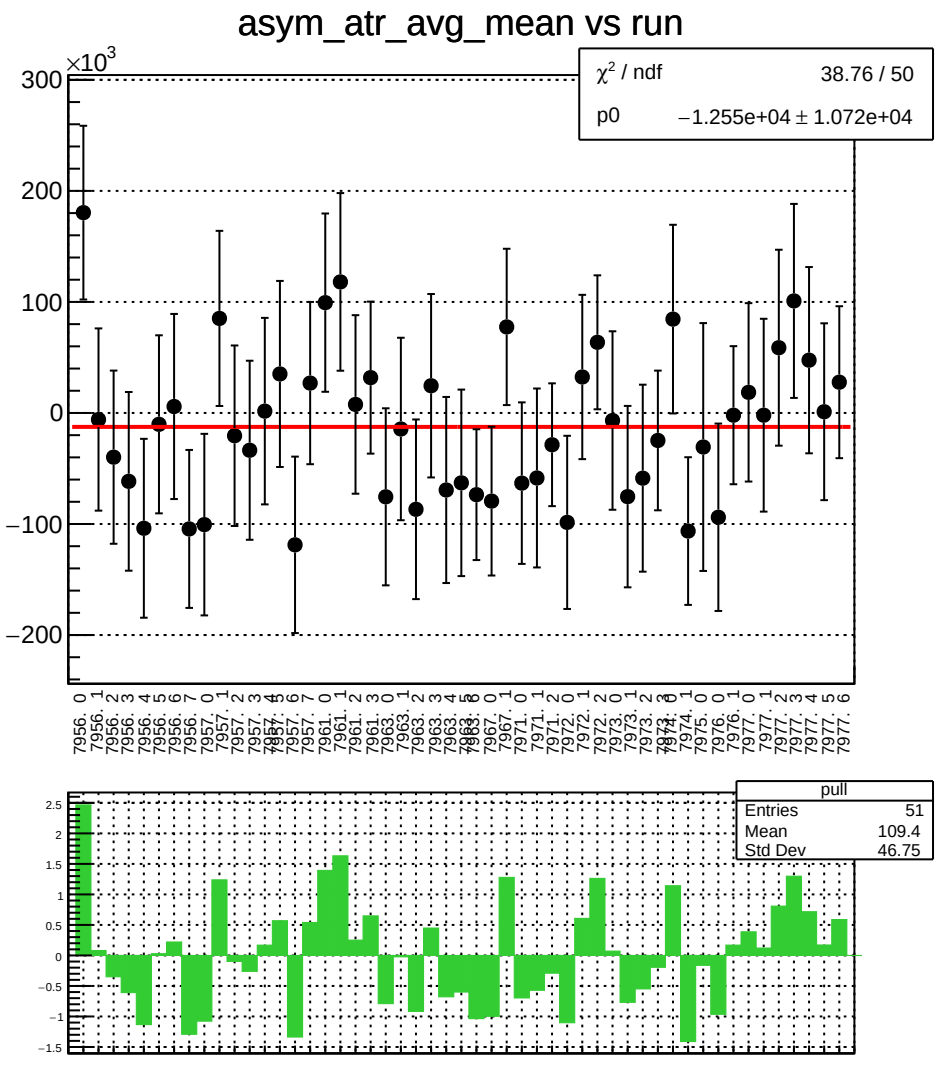
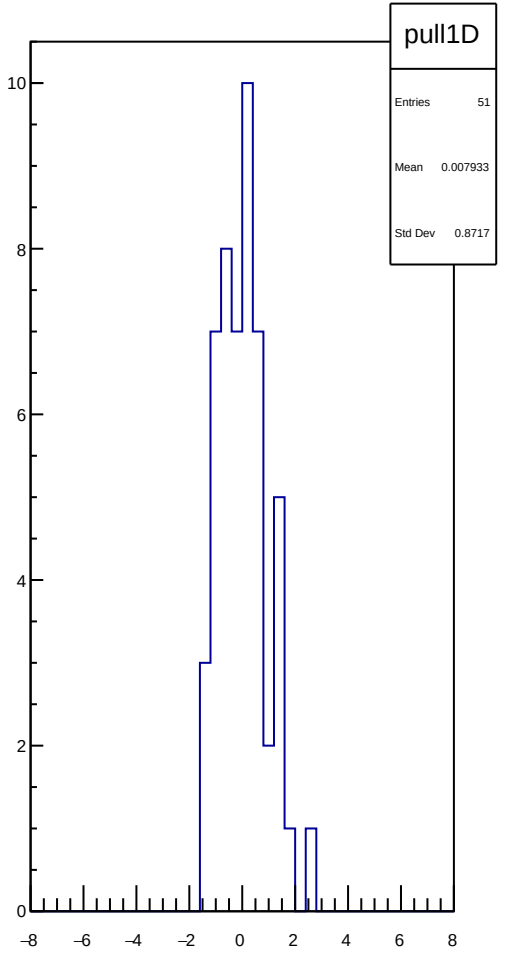
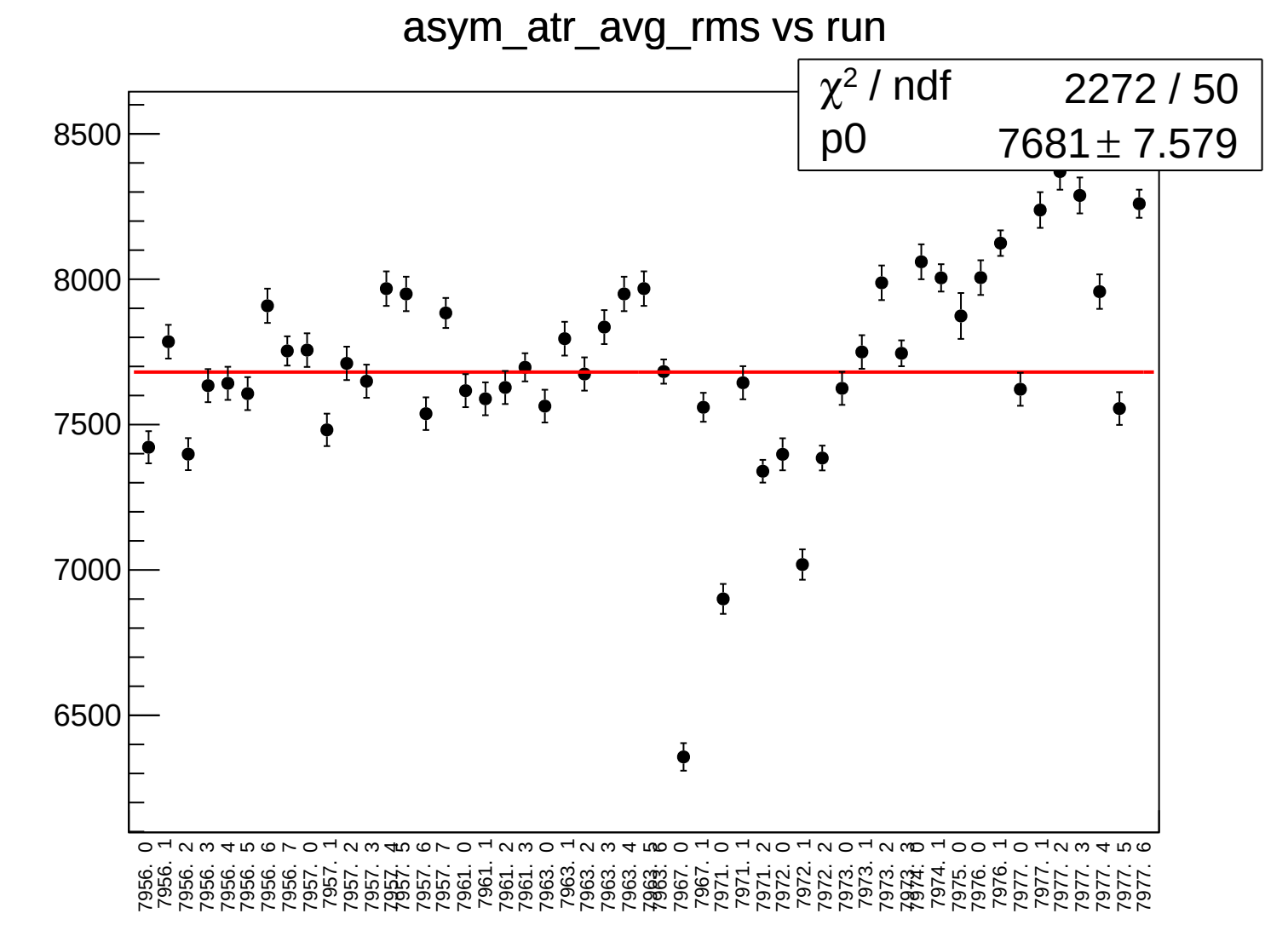
7977. 5
7977. 6


asym_atr_avg_mean vs run
×10^3
χ² / ndf 38.76 / 50
p0 −1.255e+04 ± 1.072e+04
pull
Entries 51
Mean 109.4
Std Dev 46.75


pull1D
Entries 51
Mean 0.007933
Std Dev 0.8717


asym_atr_avg_rms vs run
χ² / ndf 2272 / 50
p0 7681 ± 7.579
8500
8000
7500
7000
6500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7977. 0
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7977. 3
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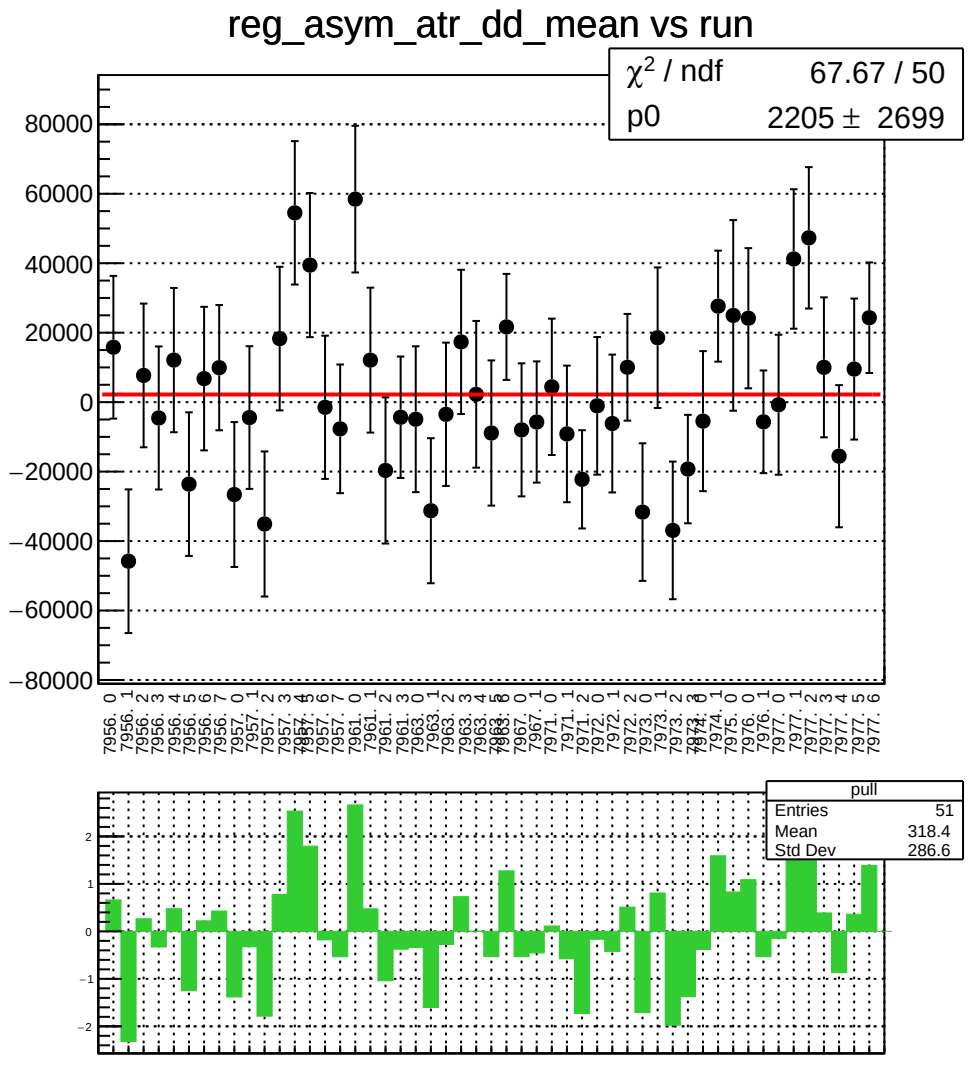
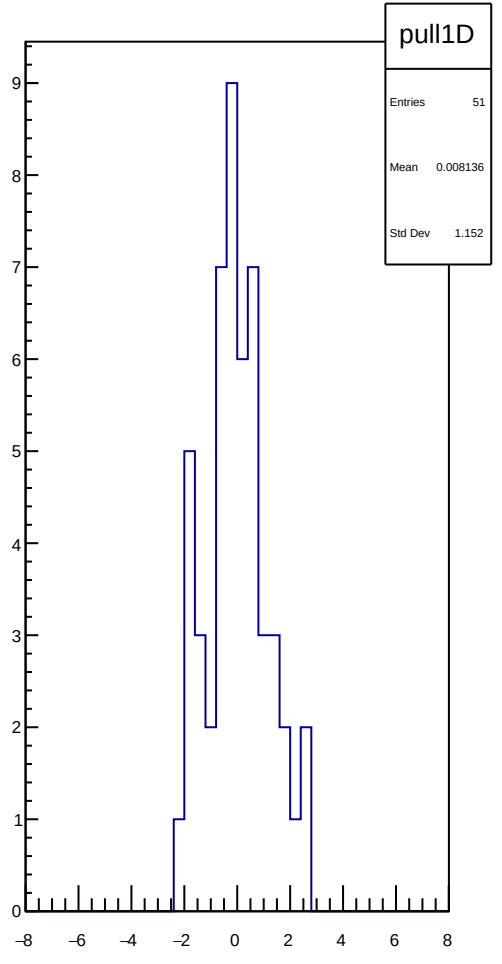
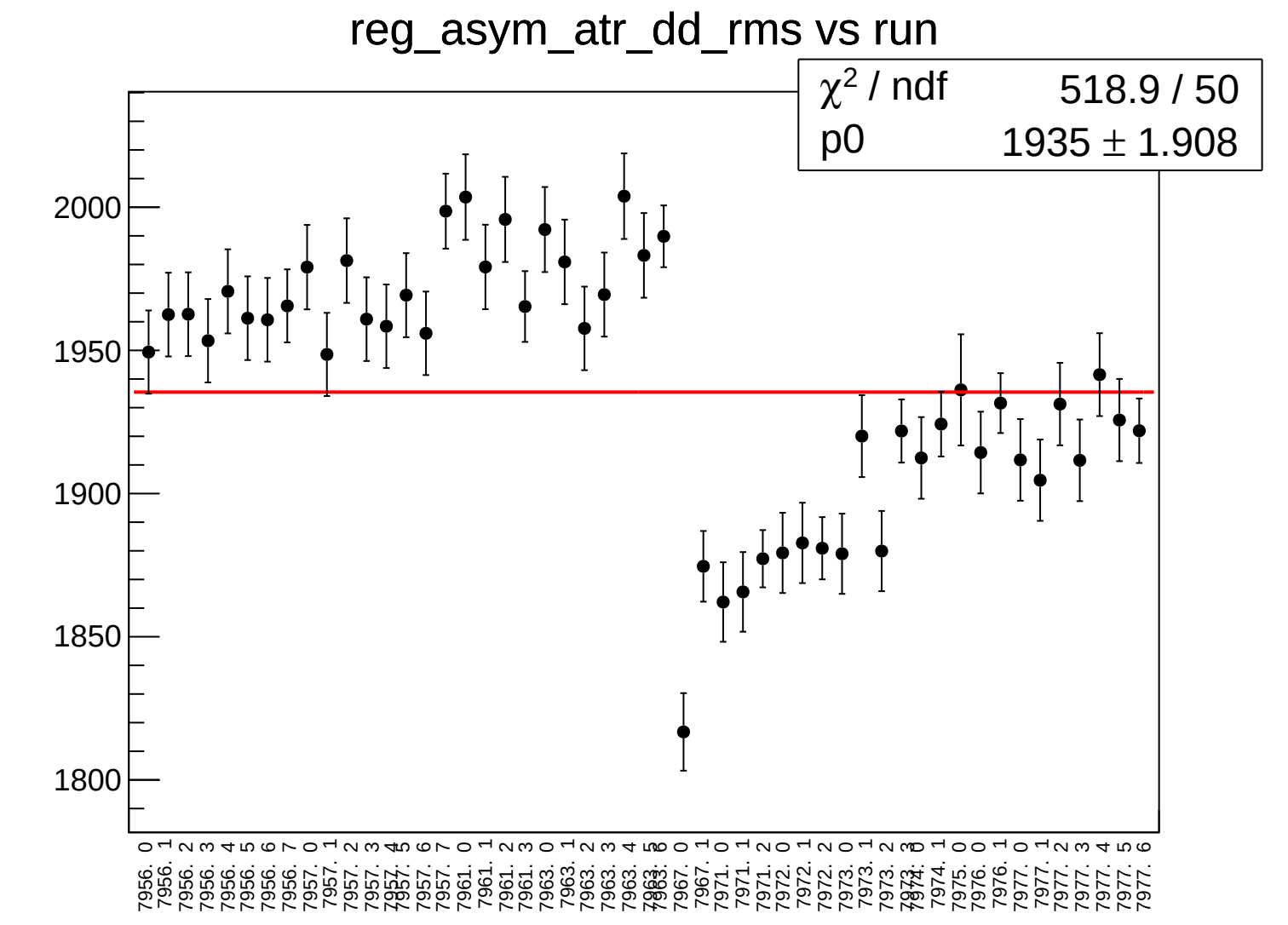
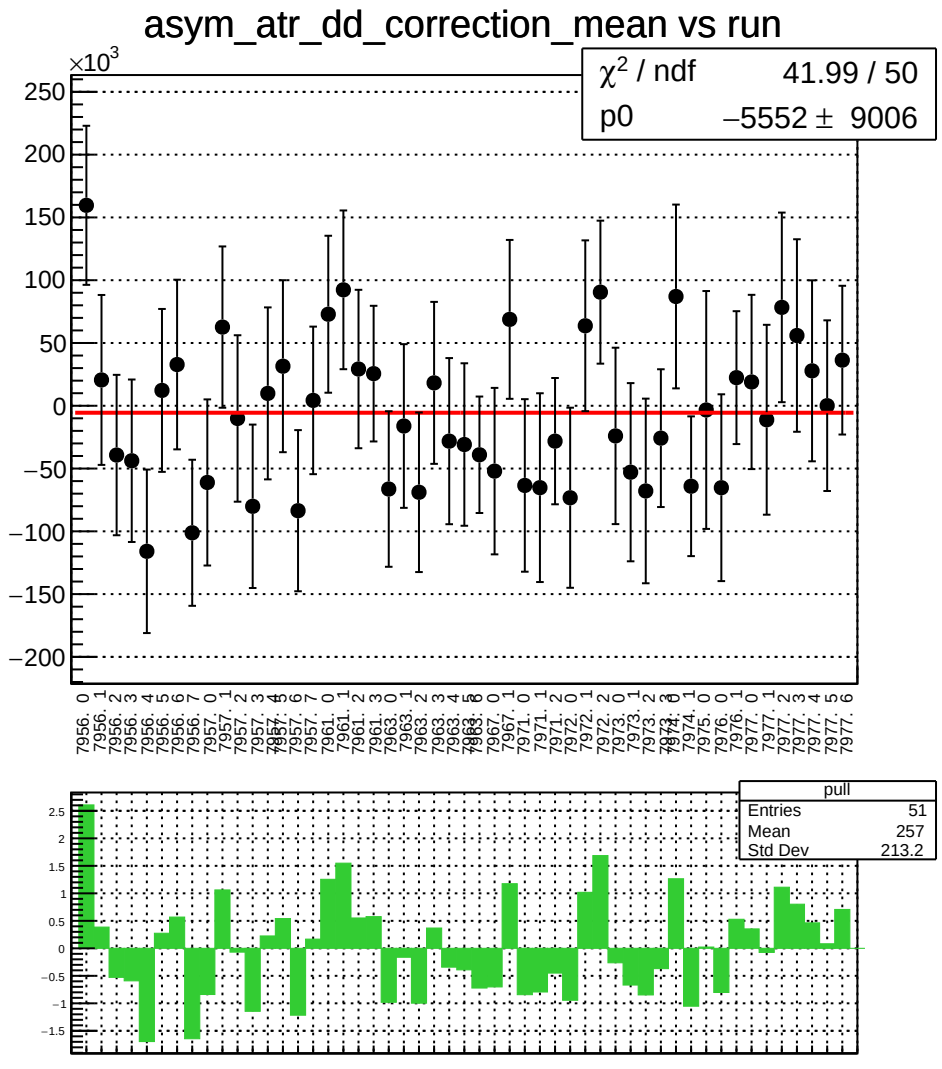
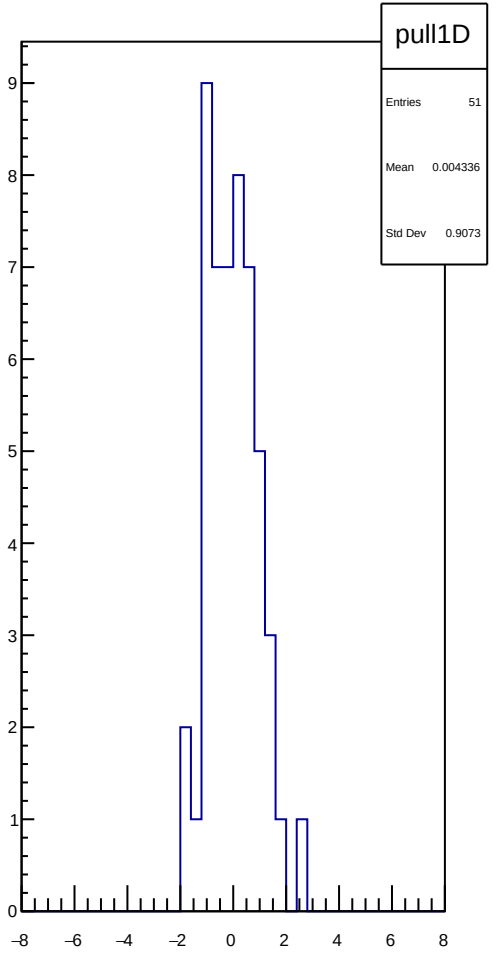
7977. 5
7977. 6

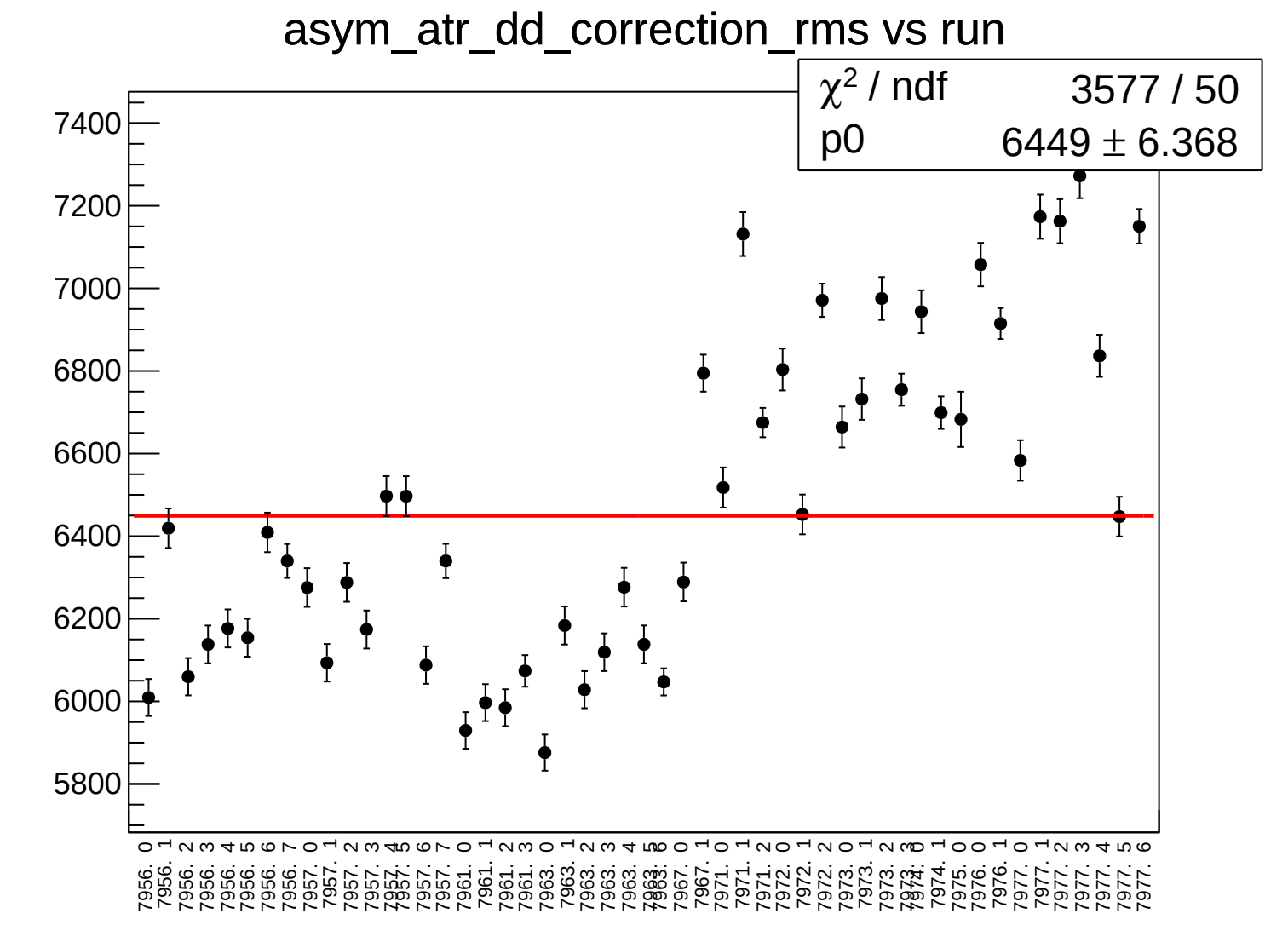

reg_asym_atr_dd_mean vs run
χ² / ndf 67.67 / 50
p0 2205 ± 2699
pull
Entries 51
Mean 318.4
Std Dev 286.6


pull1D
Entries 51
Mean 0.008136
Std Dev 1.152


reg_asym_atr_dd_rms vs run
χ² / ndf 518.9 / 50
p0 1935 ± 1.908
2000
1950
1900
1850
1800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 41.99 / 50
p0 −5552 ± 9006
pull
Entries 51
Mean 257
Std Dev 213.2


pull1D
Entries 51
Mean 0.004336
Std Dev 0.9073


asym_atr_dd_correction_rms vs run
χ² / ndf 3577 / 50
p0 6449 ± 6.368
7400
7200
7000
6800
6600
6400
6200
6000
5800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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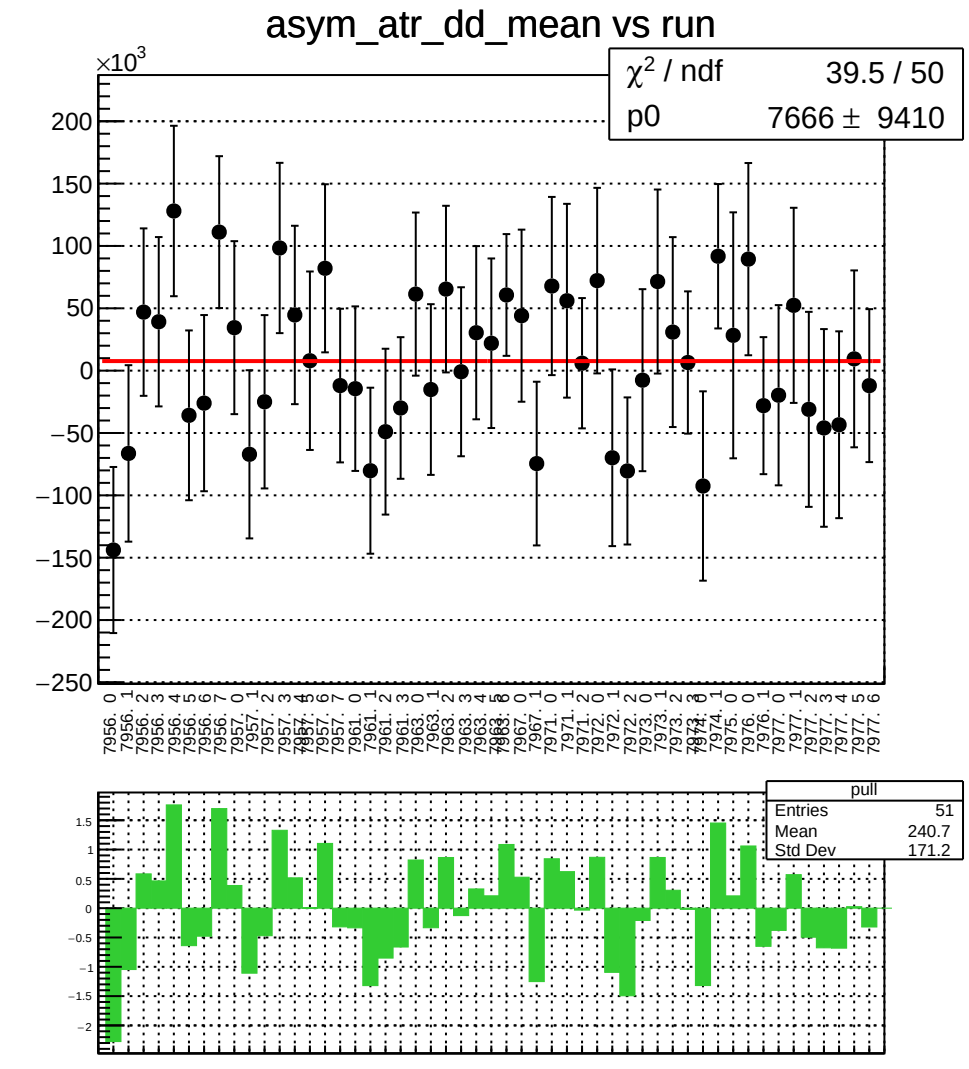
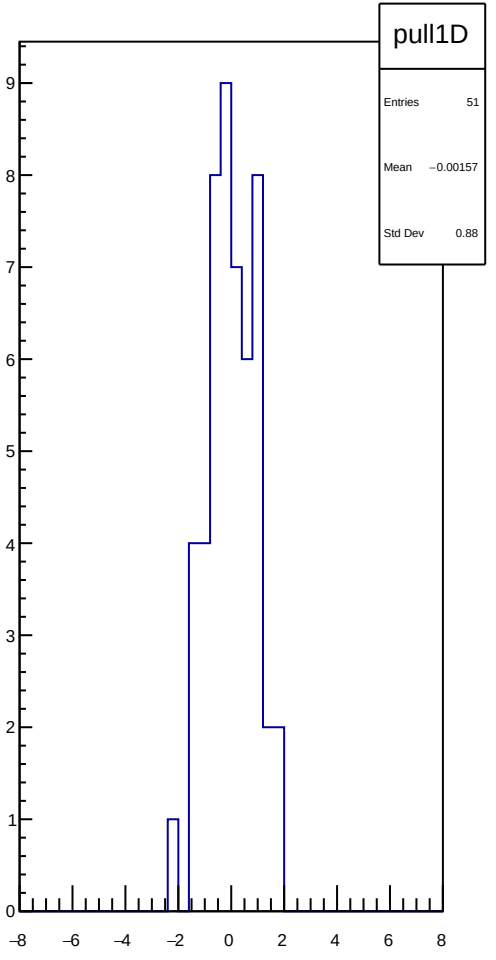
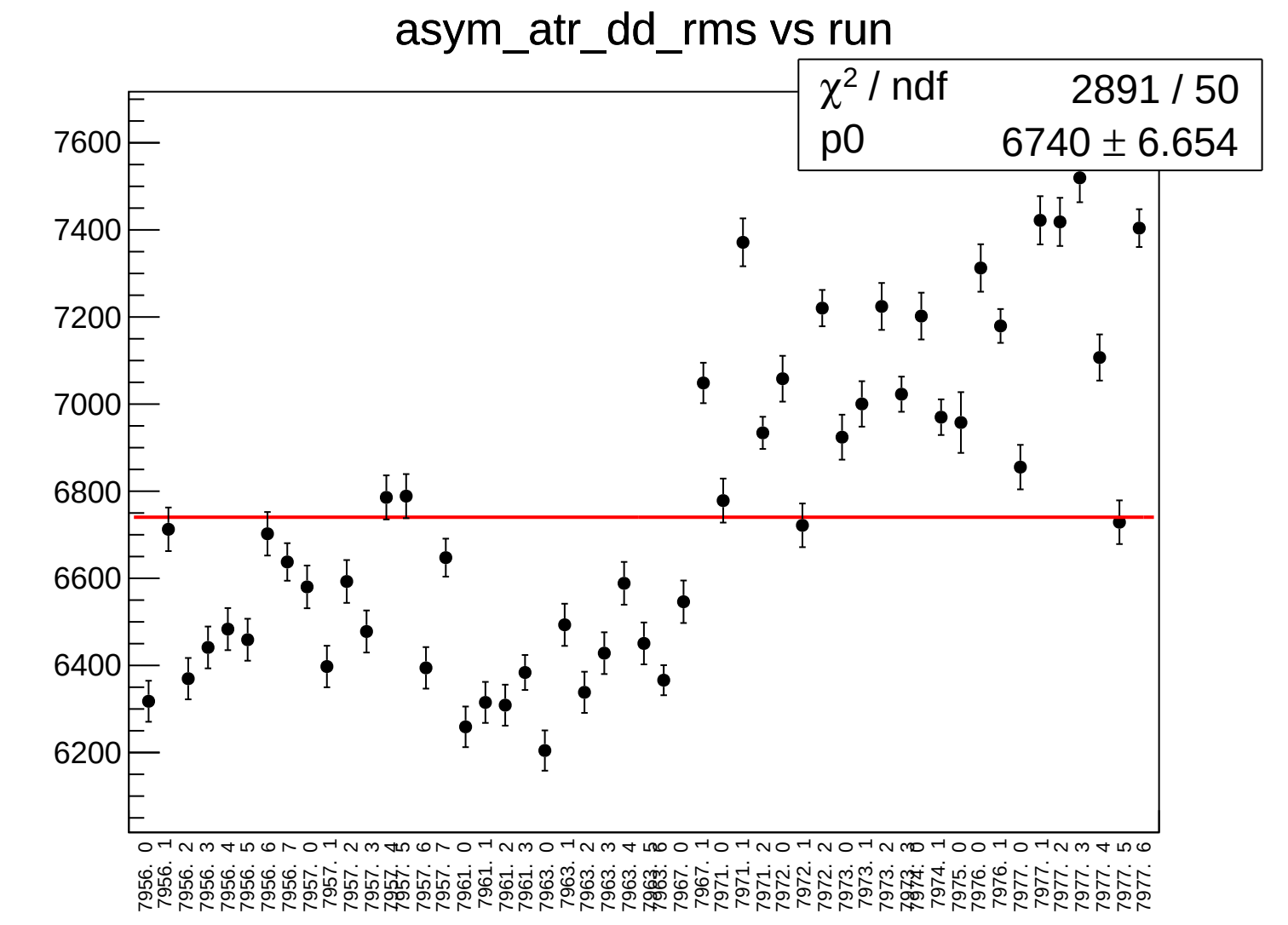
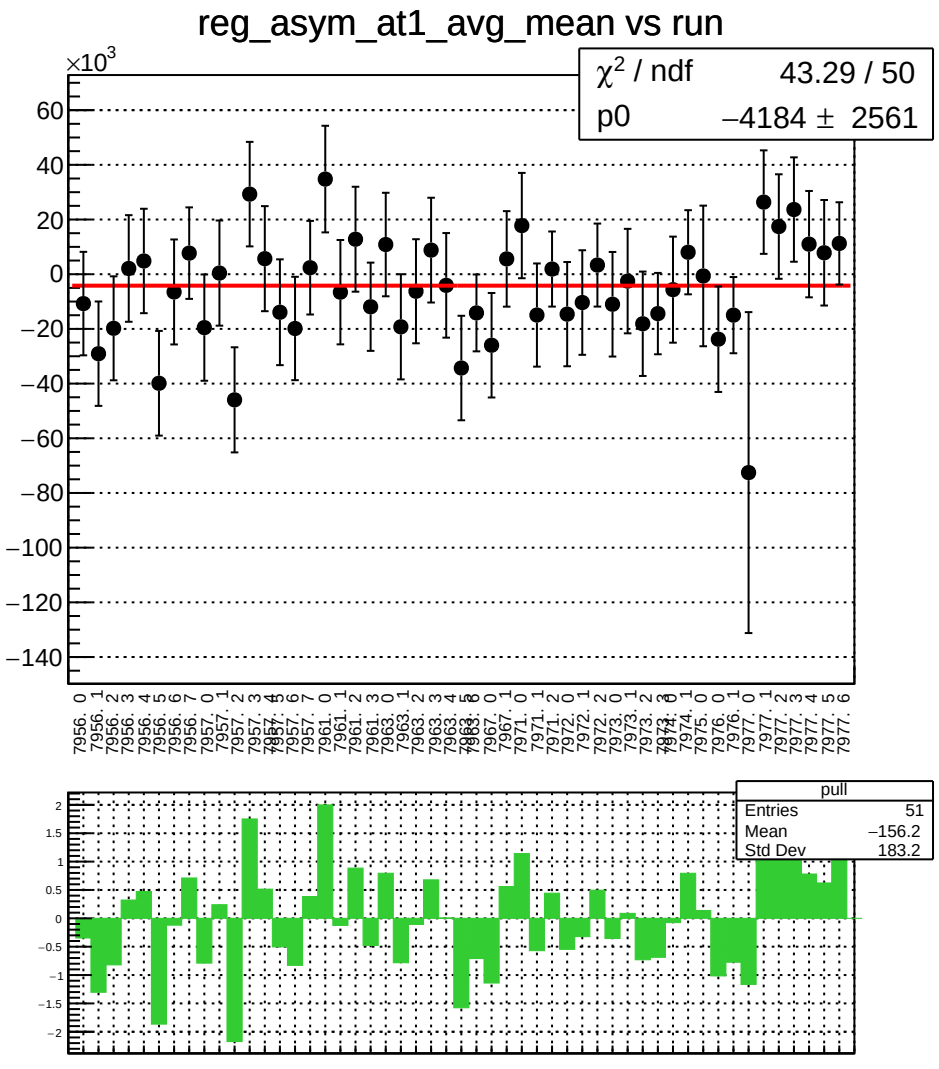
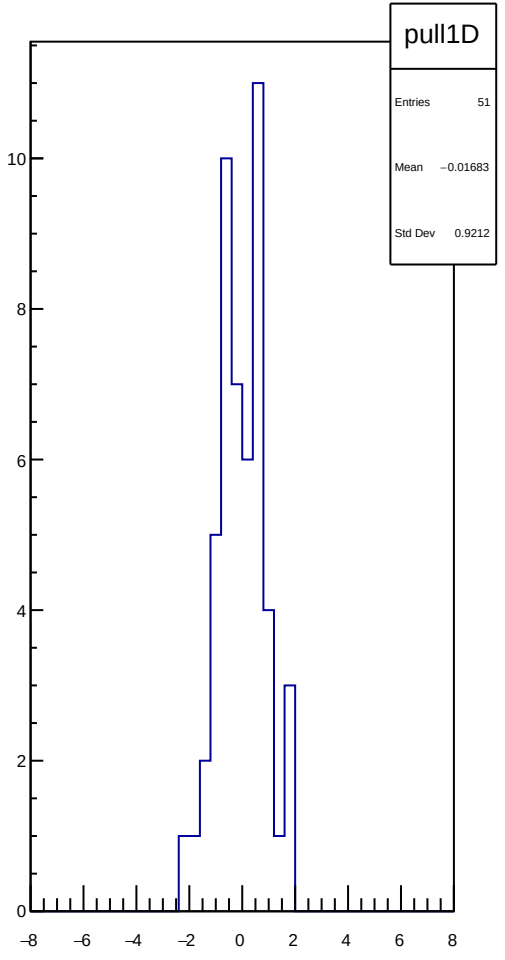
7977. 5
7977. 6

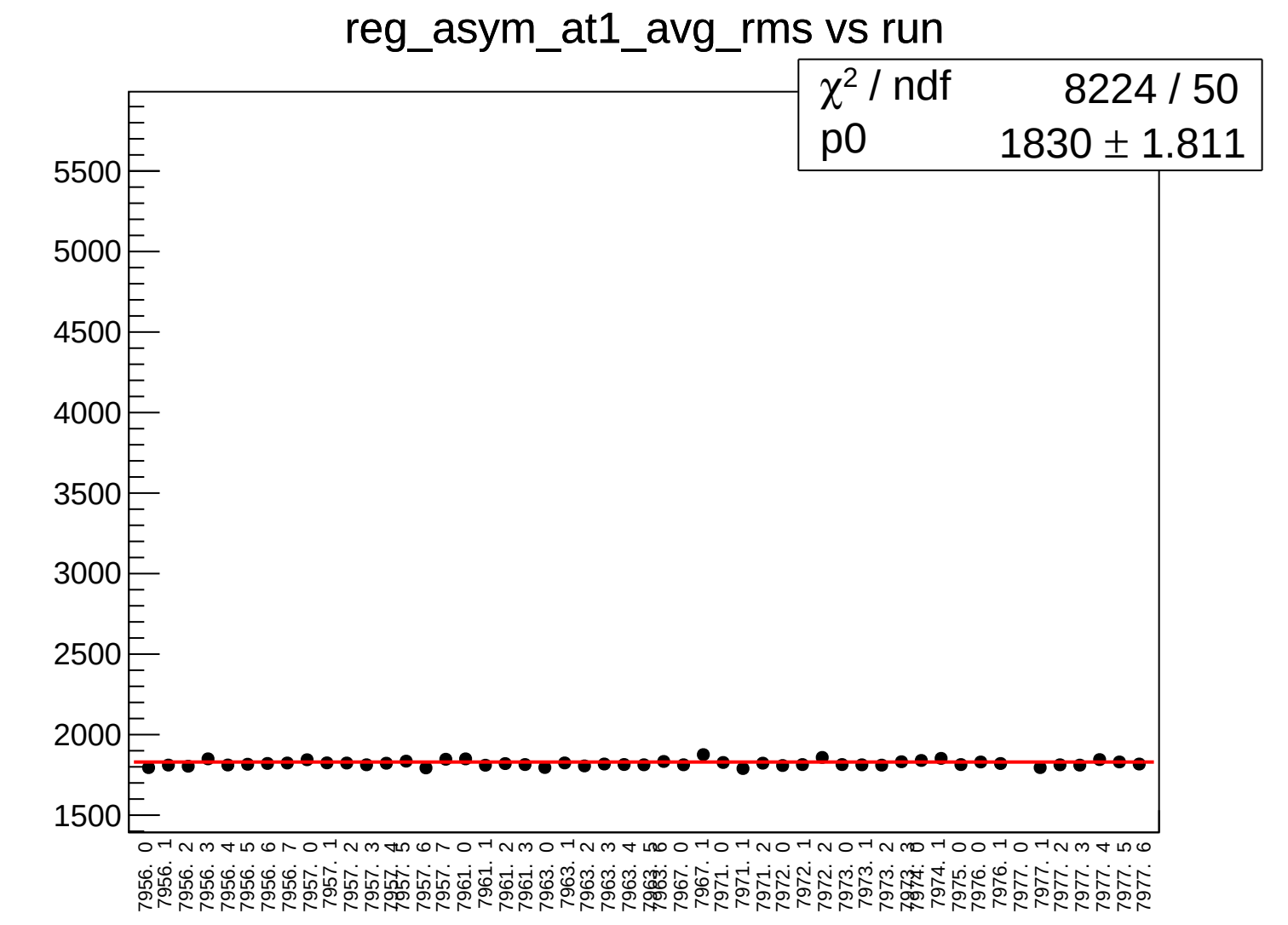

asym_atr_dd_mean vs run
×10^3
χ² / ndf 39.5 / 50
p0 7666 ± 9410
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 51
Mean 240.7
Std Dev 171.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

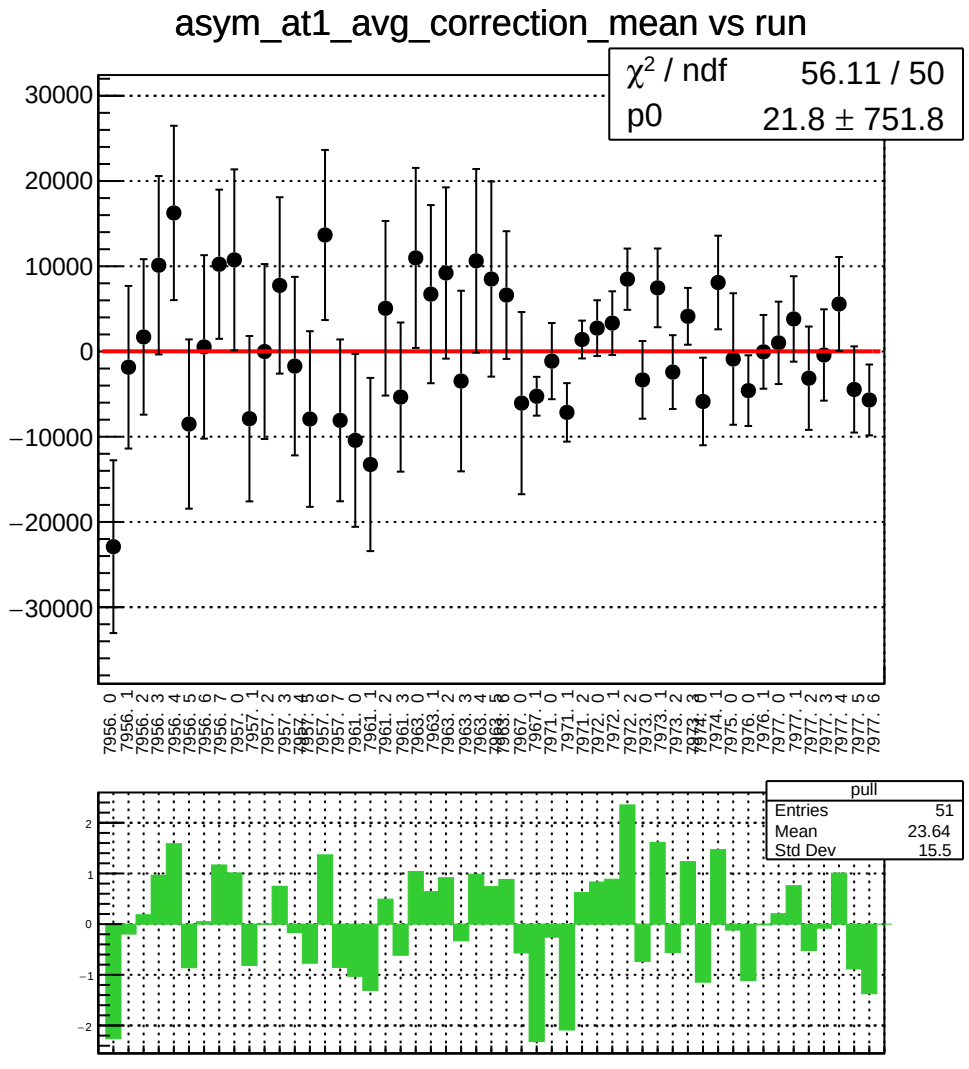

pull1D
Entries 51
Mean −0.00157
Std Dev 0.88
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

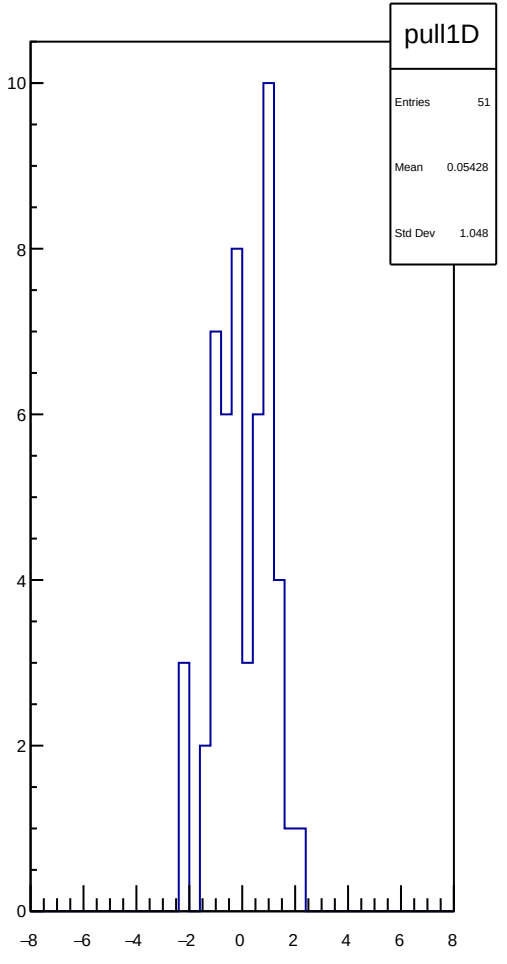

asym_atr_dd_rms vs run
χ² / ndf 2891 / 50
p0 6740 ± 6.654
7600
7400
7200
7000
6800
6600
6400
6200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

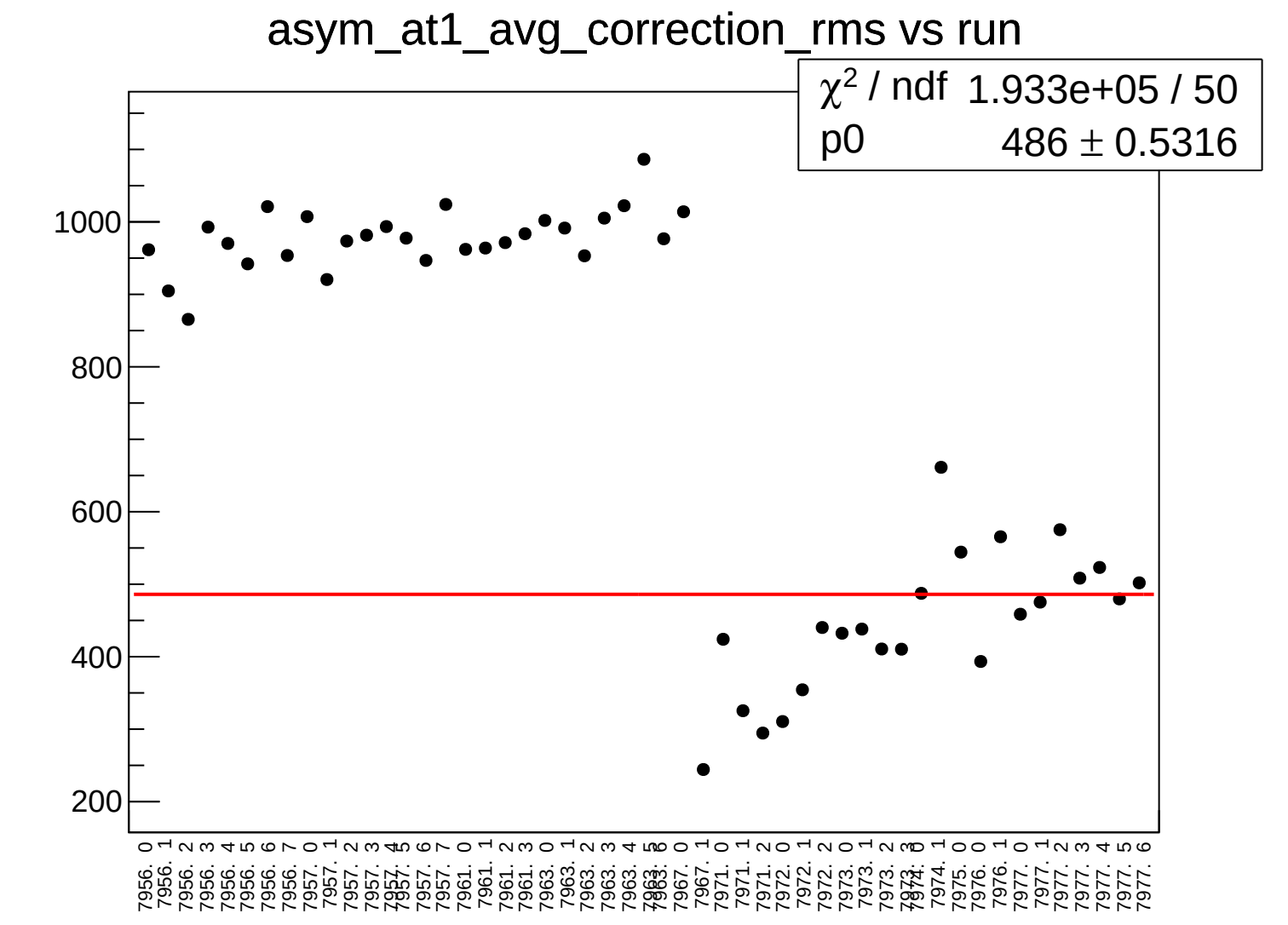

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 43.29 / 50
p0 −4184 ± 2561
pull
Entries 51
Mean −156.2
Std Dev 183.2

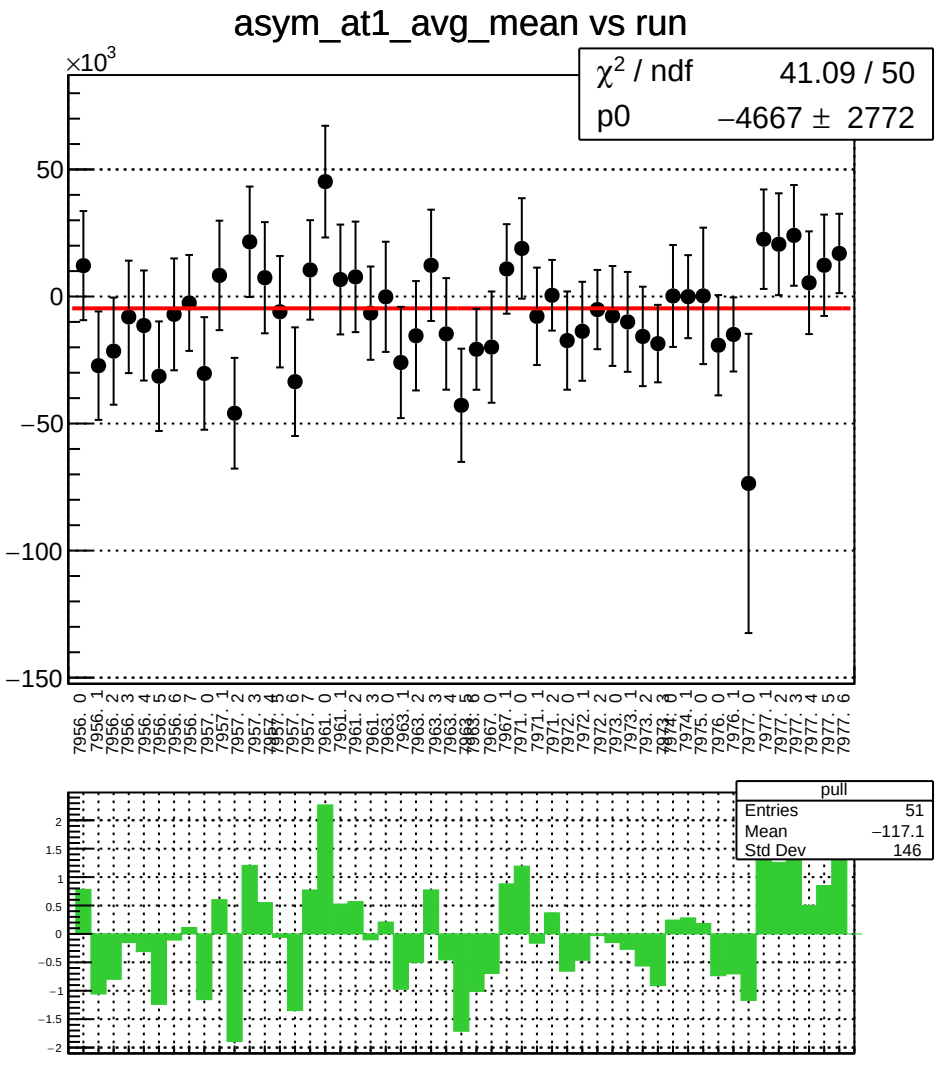

pull1D
Entries 51
Mean −0.01683
Std Dev 0.9212

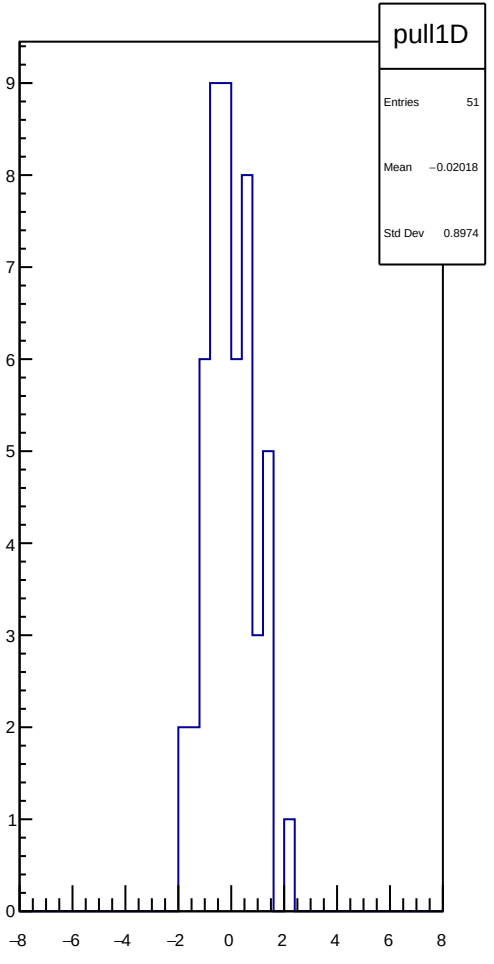

reg_asym_at1_avg_rms vs run
χ² / ndf 8224 / 50
p0 1830 ± 1.811
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

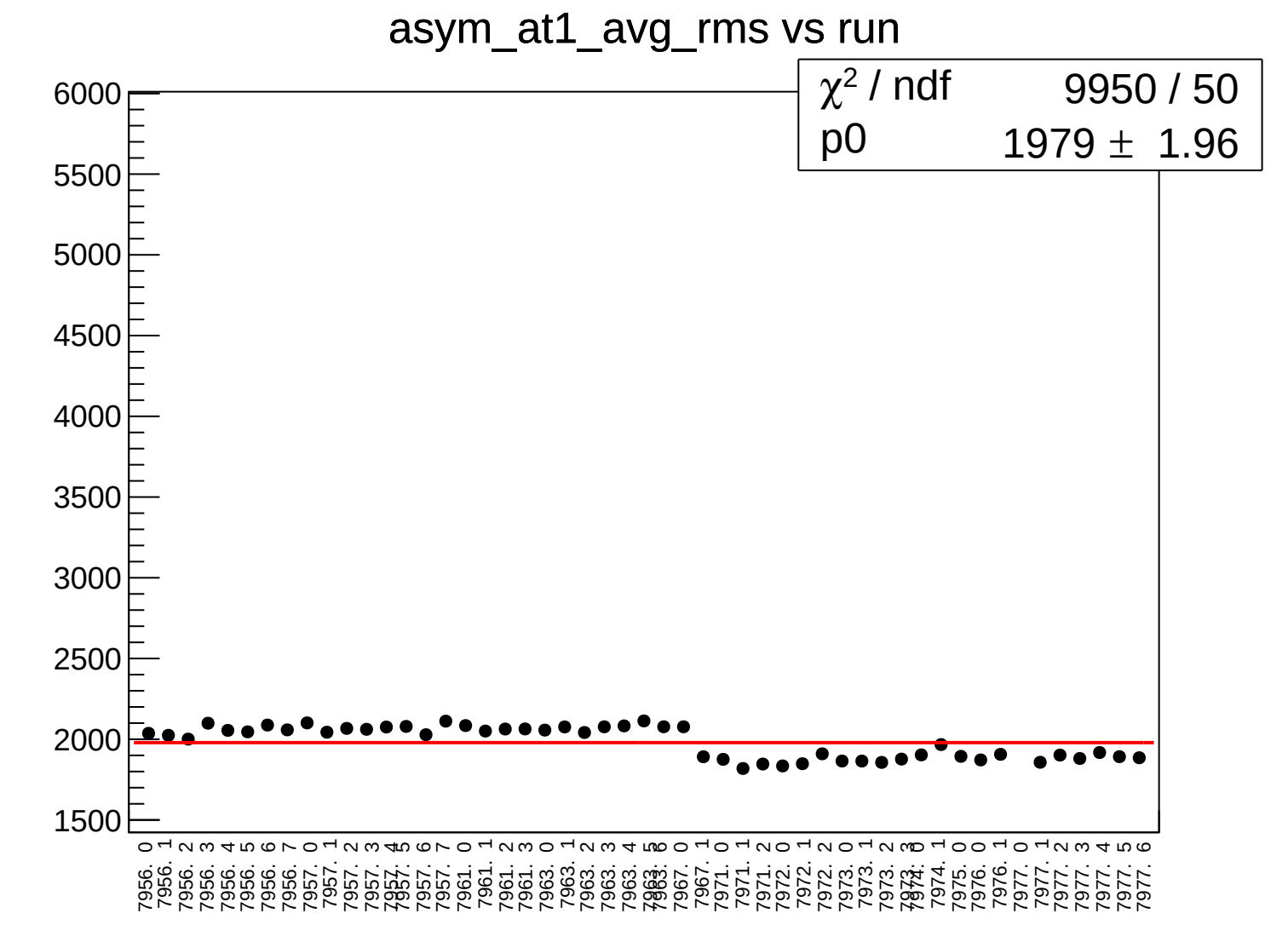

asym_at1_avg_correction_mean vs run
χ² / ndf 56.11 / 50
p0 21.8 ± 751.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 23.64
Std Dev 15.5
2
1
0
−1
−2

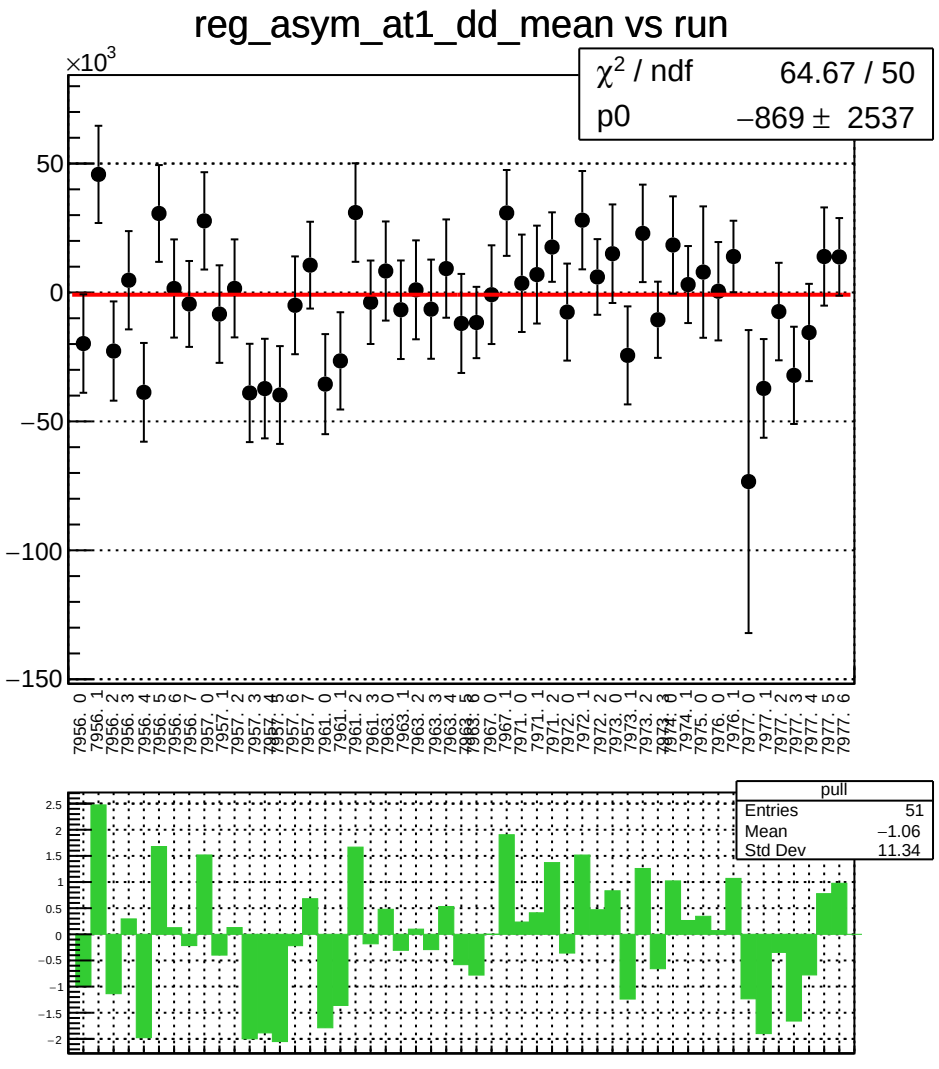

pull1D
Entries 51
Mean 0.05428
Std Dev 1.048
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

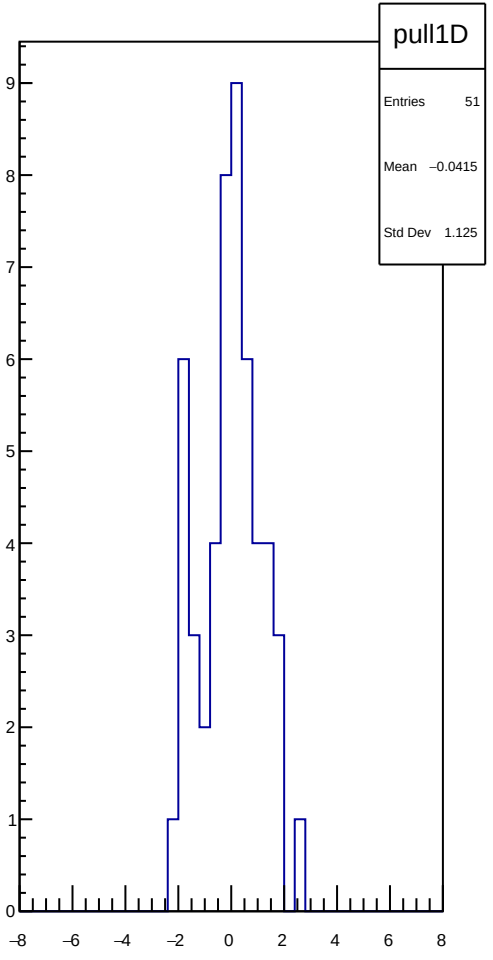

asym_at1_avg_correction_rms vs run
χ² / ndf 1.933e+05 / 50
p0 486 ± 0.5316
1000
800
600
400
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

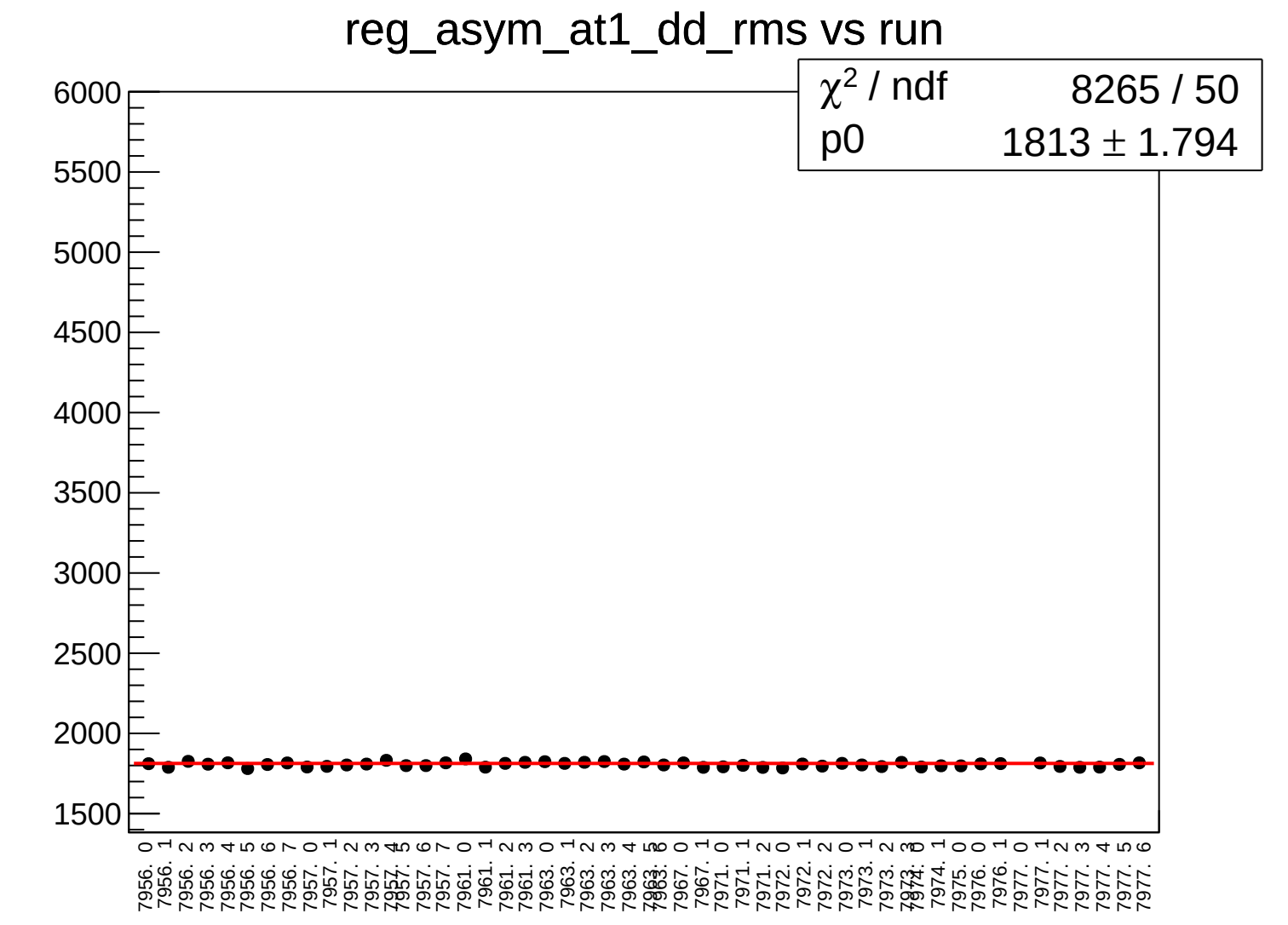

asym_at1_avg_mean vs run
×10^3
χ² / ndf 41.09 / 50
p0 −4667 ± 2772
50
0
−50
−100
−150
pull
Entries 51
Mean −117.1
Std Dev 146
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

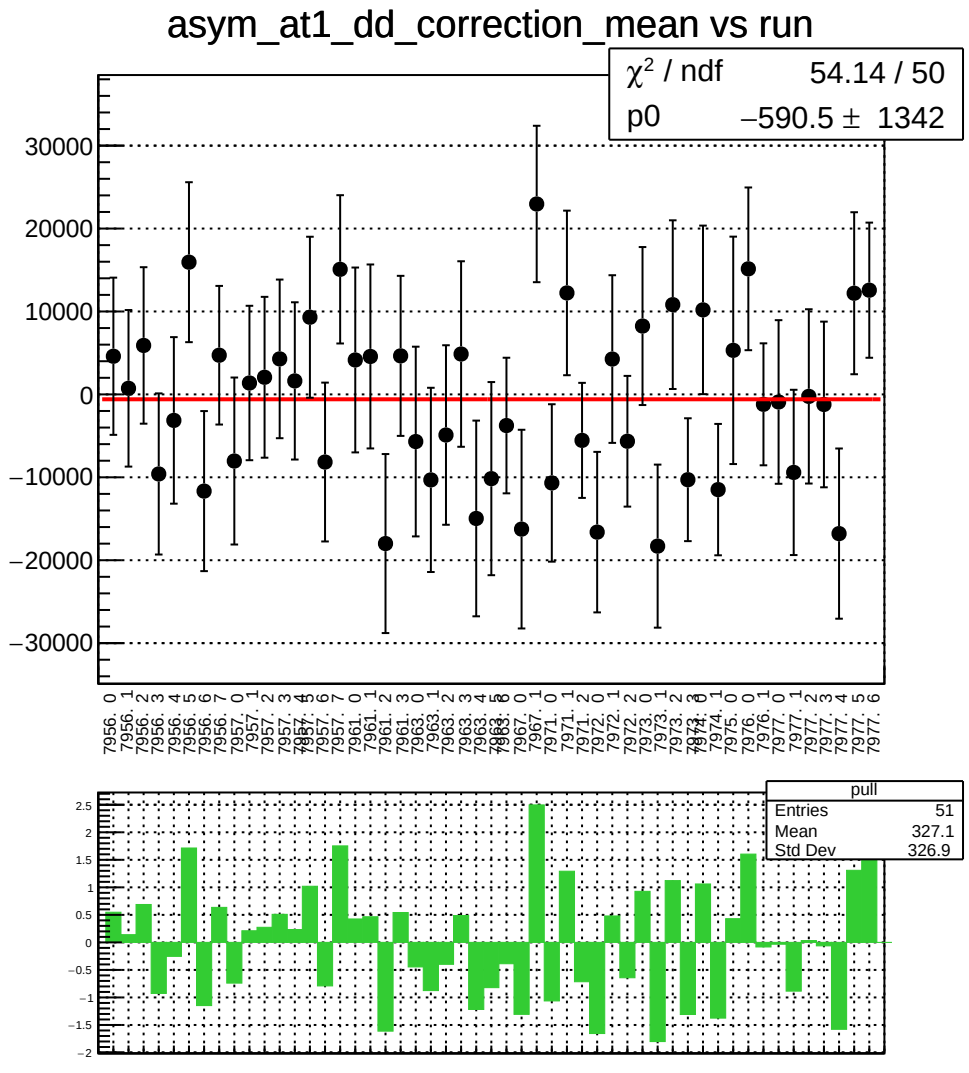

pull1D
Entries 51
Mean −0.02018
Std Dev 0.8974
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

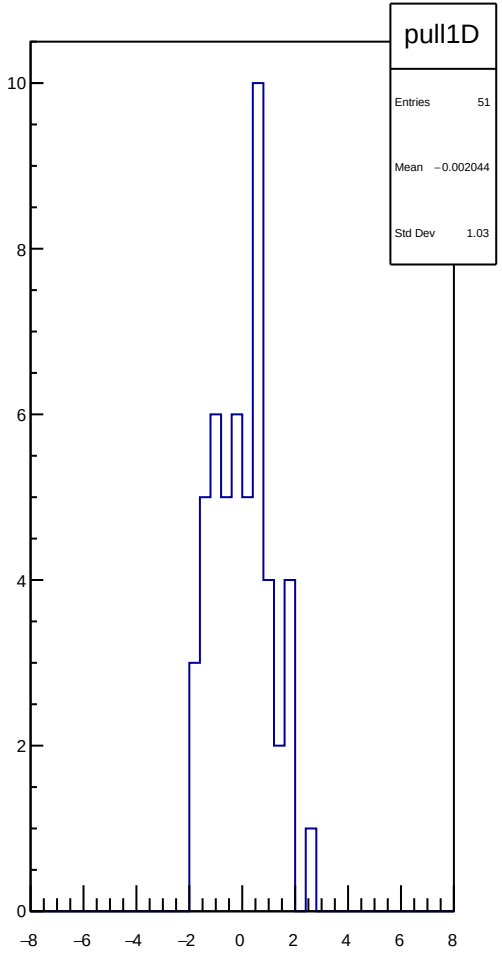

asym_at1_avg_rms vs run
χ² / ndf 9950 / 50
p0 1979 ± 1.96
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

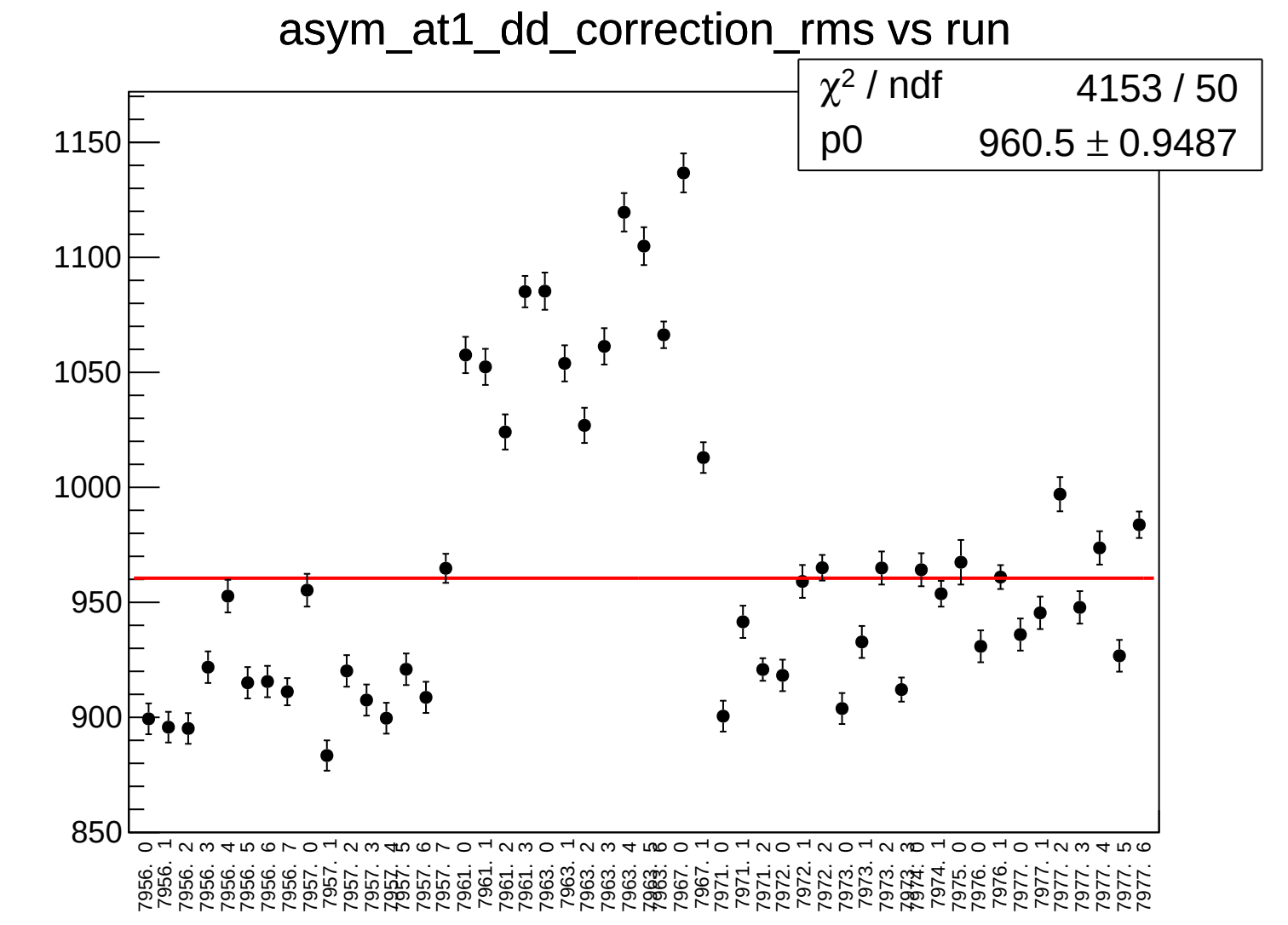

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 64.67 / 50
p0 −869 ± 2537
50
0
−50
−100
−150
pull
Entries 51
Mean −1.06
Std Dev 11.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

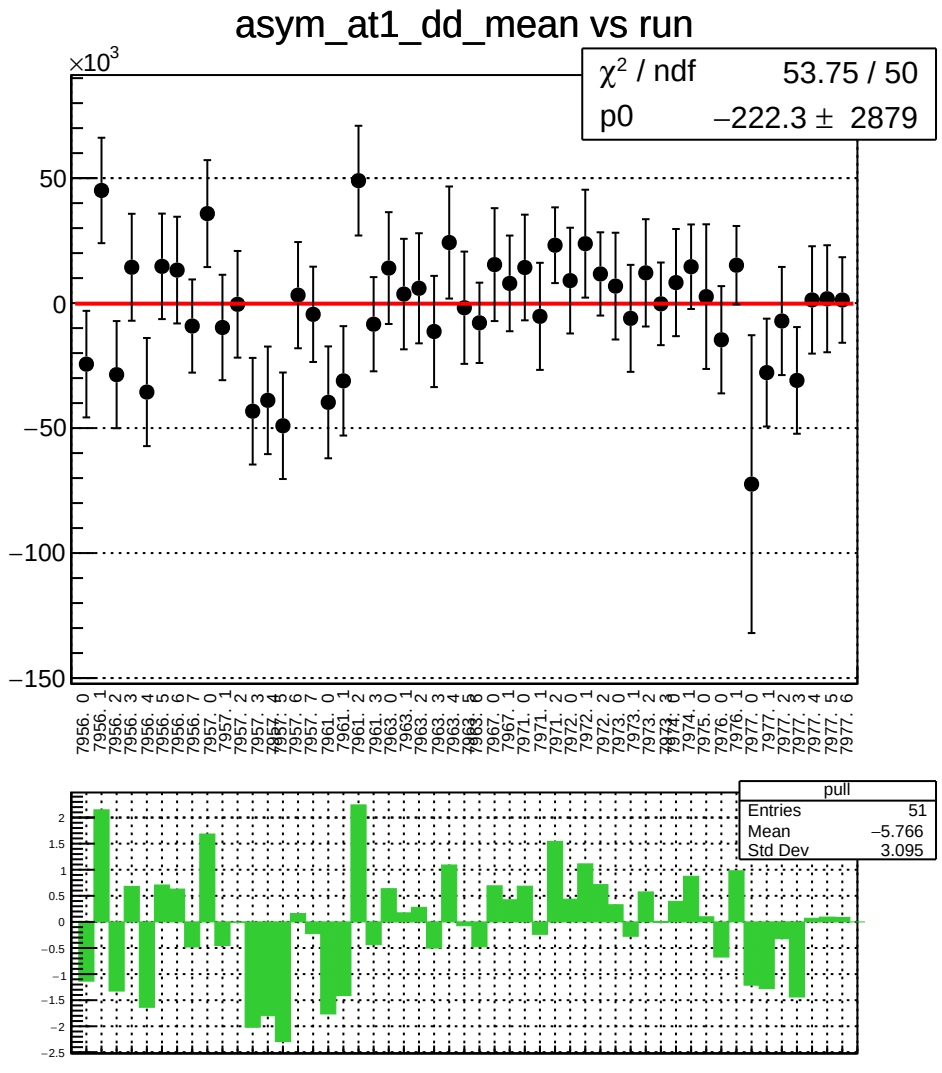

pull1D
Entries 51
Mean −0.0415
Std Dev 1.125
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

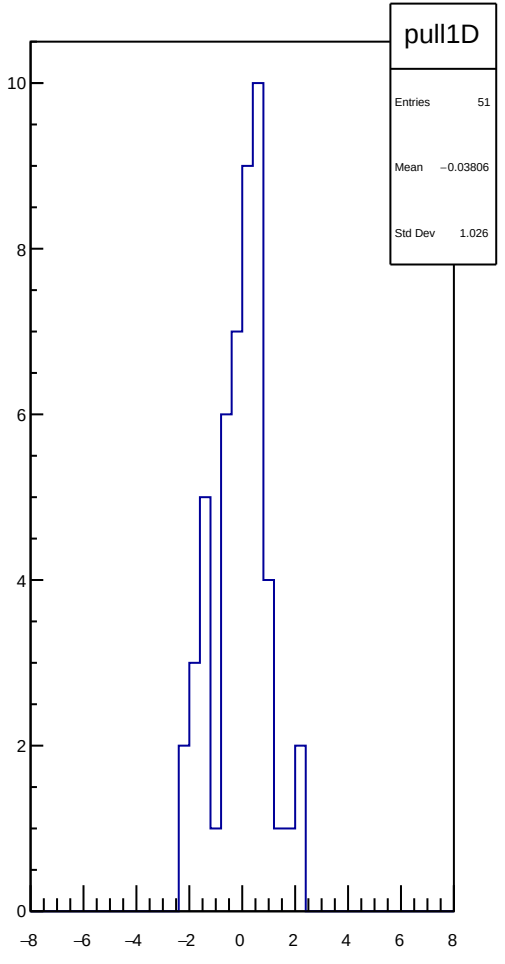

reg_asym_at1_dd_rms vs run
χ² / ndf 8265 / 50
p0 1813 ± 1.794
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

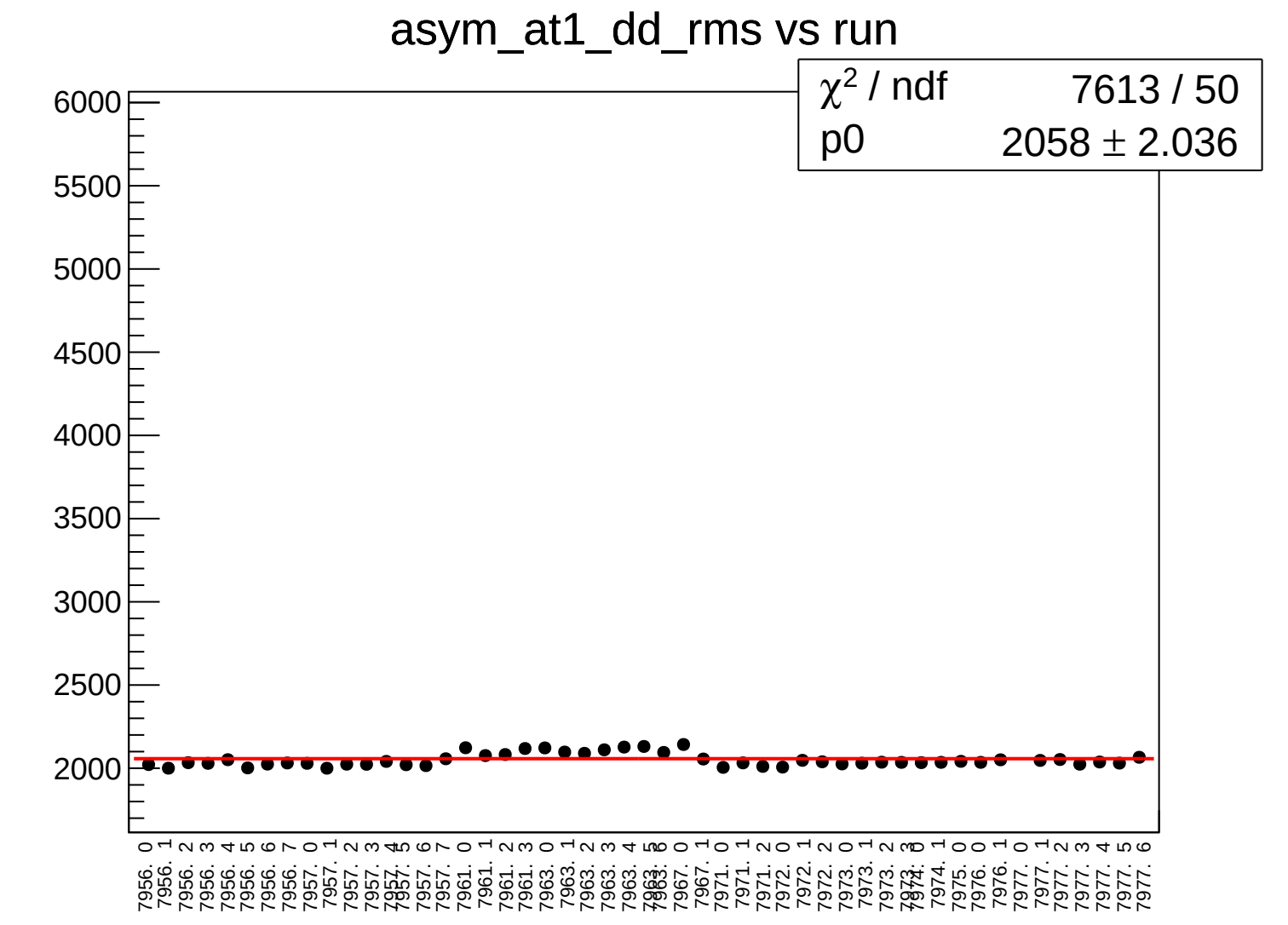

asym_at1_dd_correction_mean vs run
χ² / ndf 54.14 / 50
p0 −590.5 ± 1342
pull
Entries 51
Mean 327.1
Std Dev 326.9

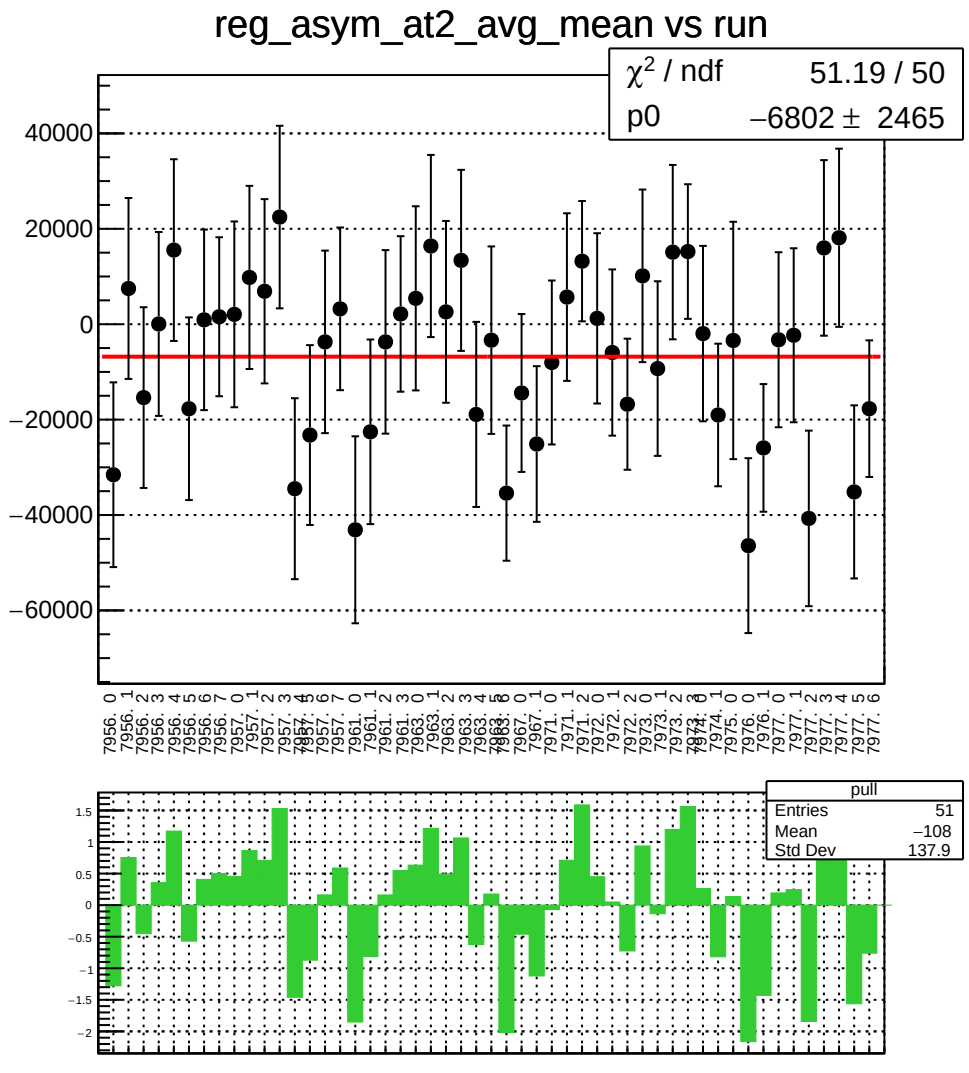

pull1D
Entries 51
Mean −0.002044
Std Dev 1.03

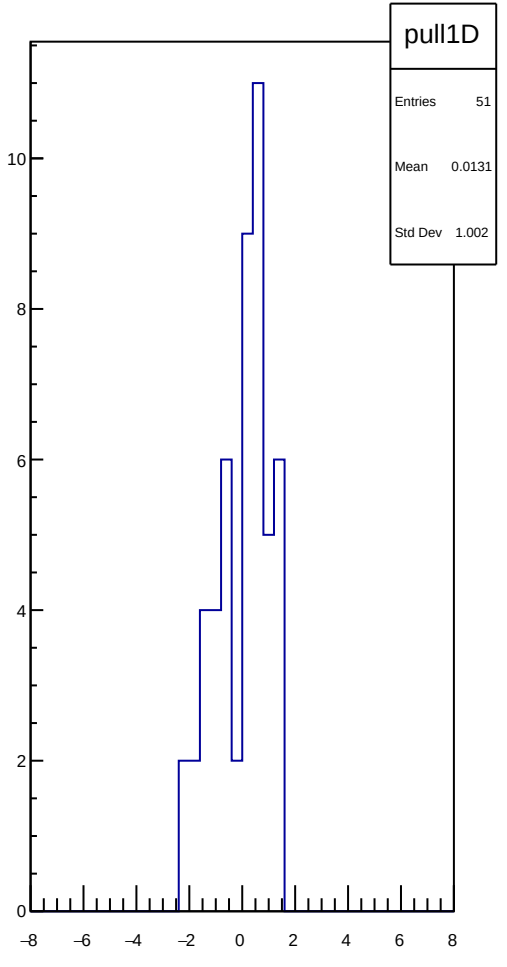

asym_at1_dd_correction_rms vs run
χ² / ndf 4153 / 50
p0 960.5 ± 0.9487
1150
1100
1050
1000
950
900
850
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

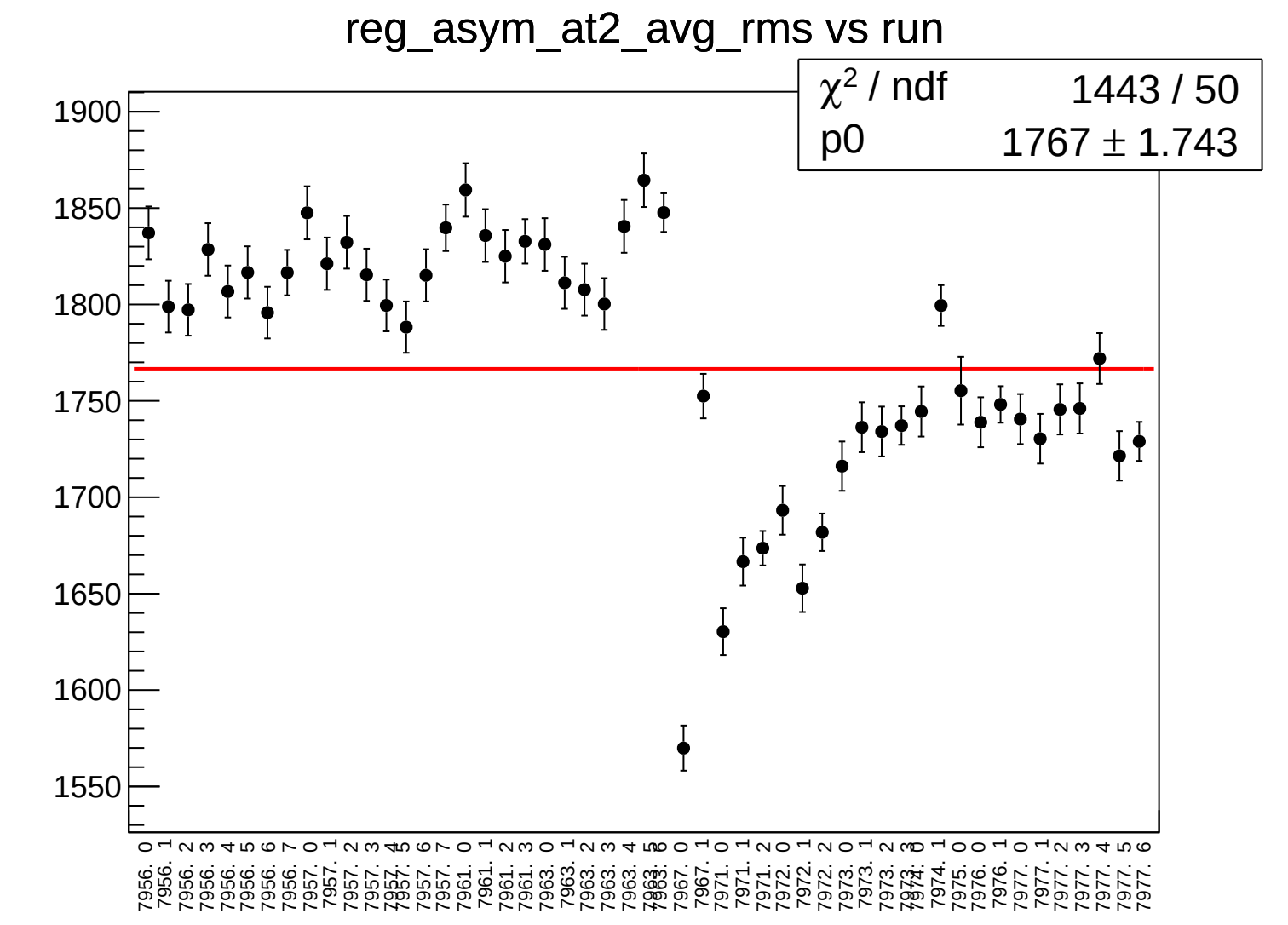

asym_at1_dd_mean vs run
×10^3
χ² / ndf 53.75 / 50
p0 −222.3 ± 2879
50
0
−50
−100
−150
pull
Entries 51
Mean −5.766
Std Dev 3.095
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.03806
Std Dev 1.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_rms vs run
χ² / ndf 7613 / 50
p0 2058 ± 2.036
6000
5500
5000
4500
4000
3500
3000
2500
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_at2_avg_mean vs run
χ² / ndf 51.19 / 50
p0 −6802 ± 2465
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −108
Std Dev 137.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.0131
Std Dev 1.002
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 1443 / 50
p0 1767 ± 1.743
1900
1850
1800
1750
1700
1650
1600
1550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
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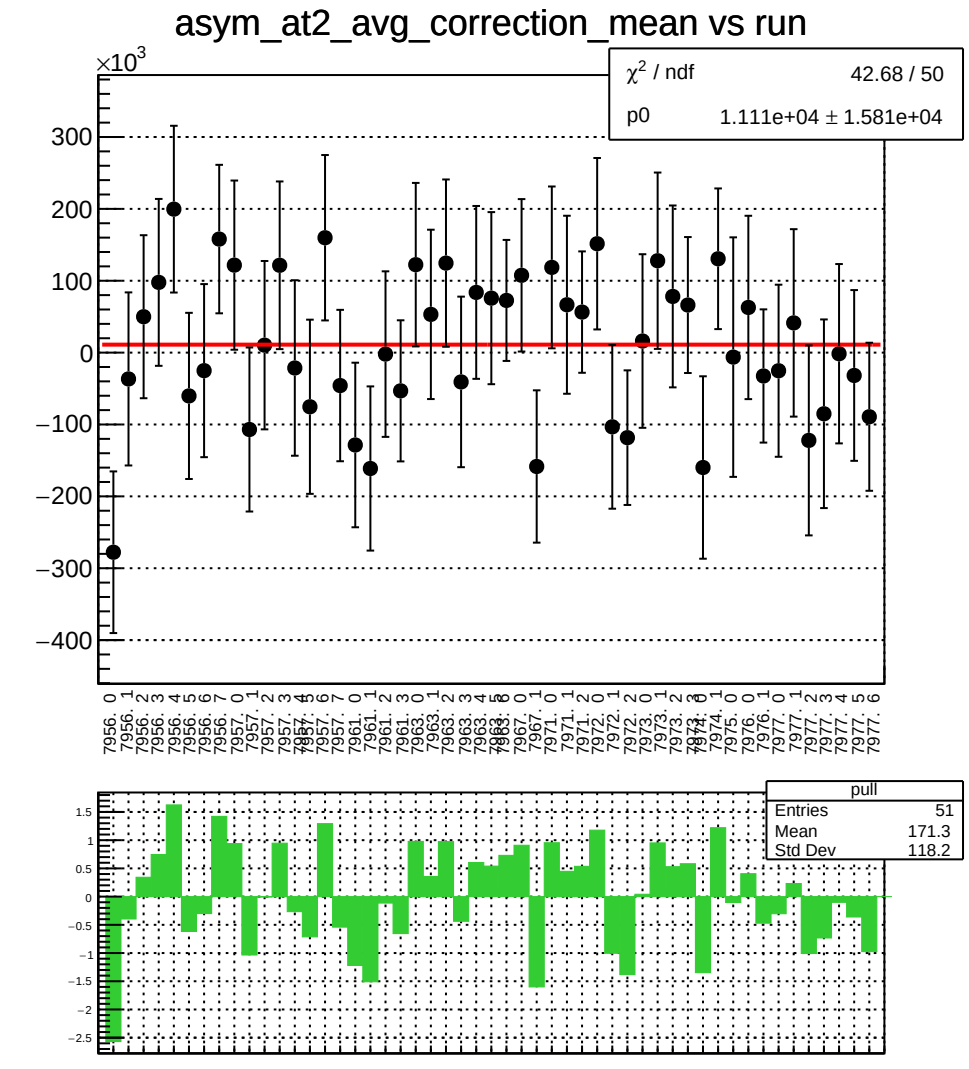
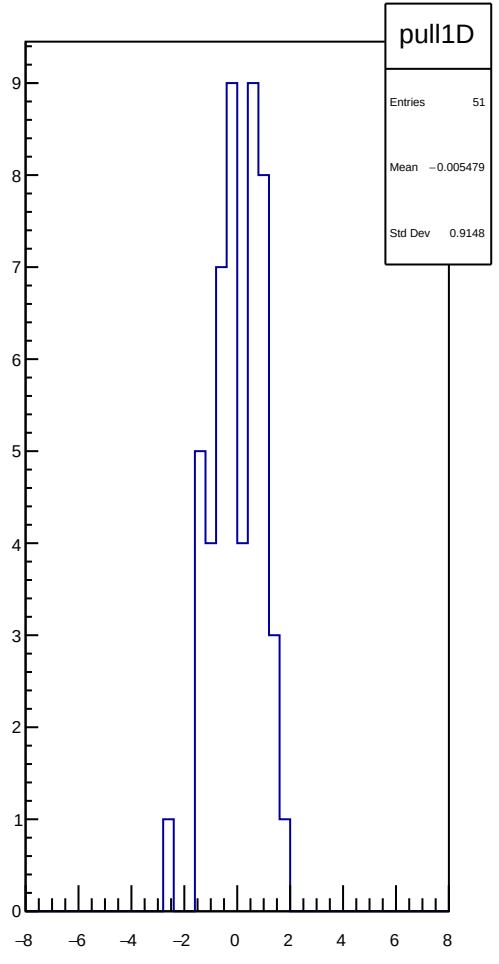
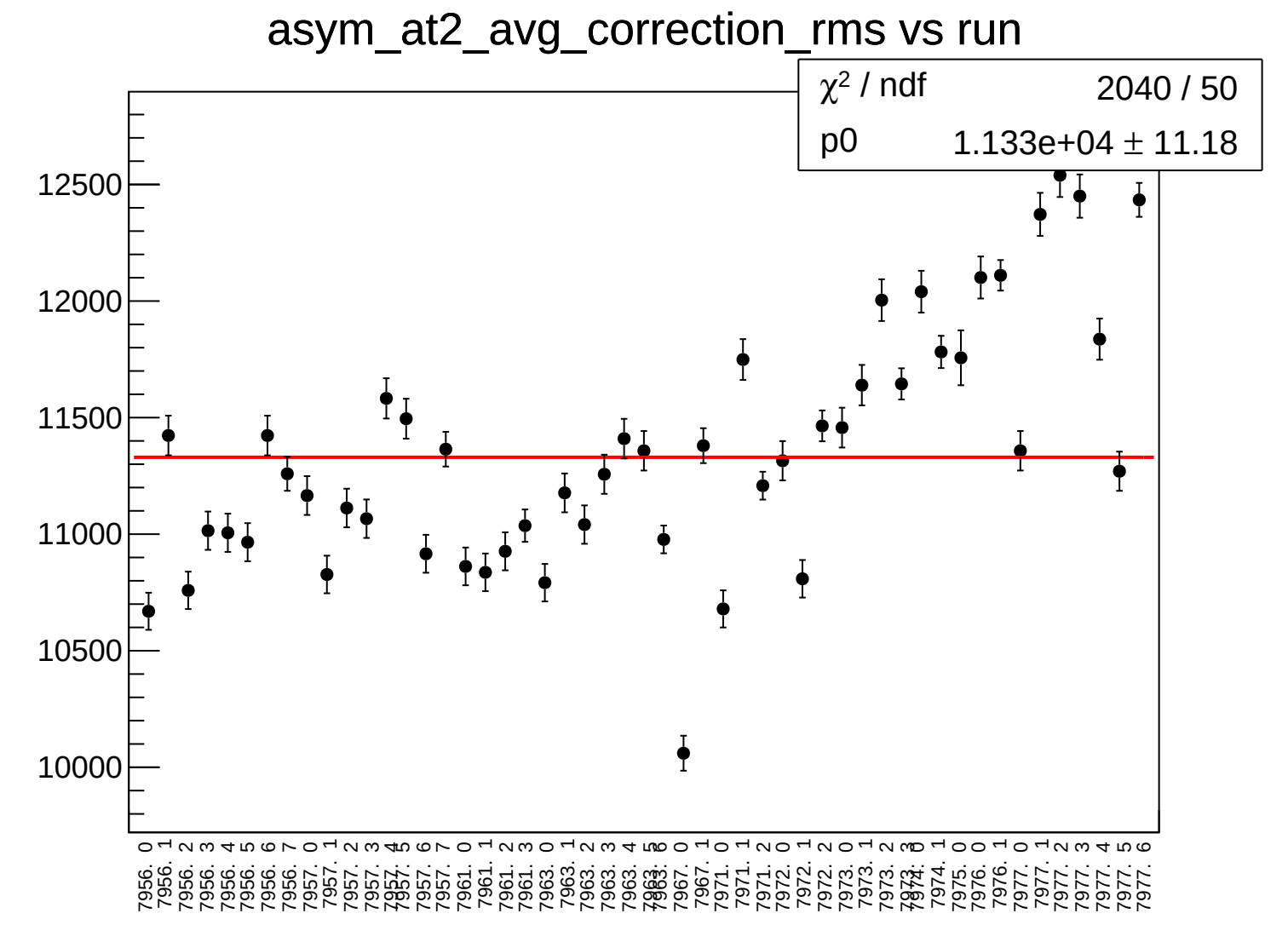
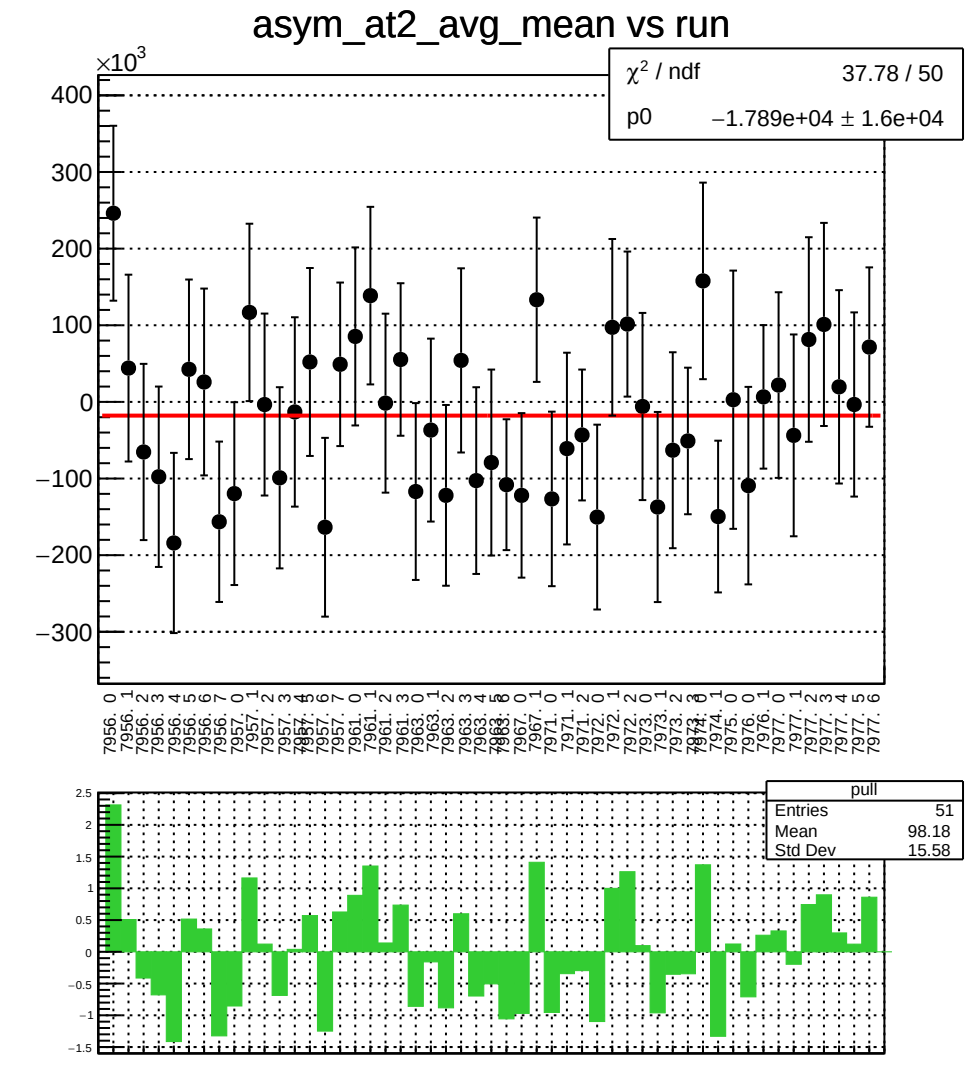
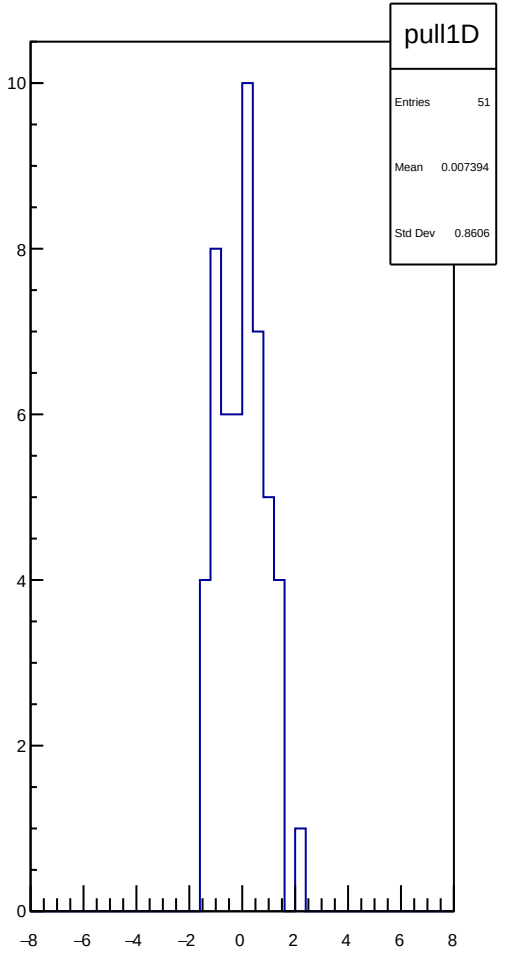
7977. 3
7977. 4
7977. 5
7977. 6

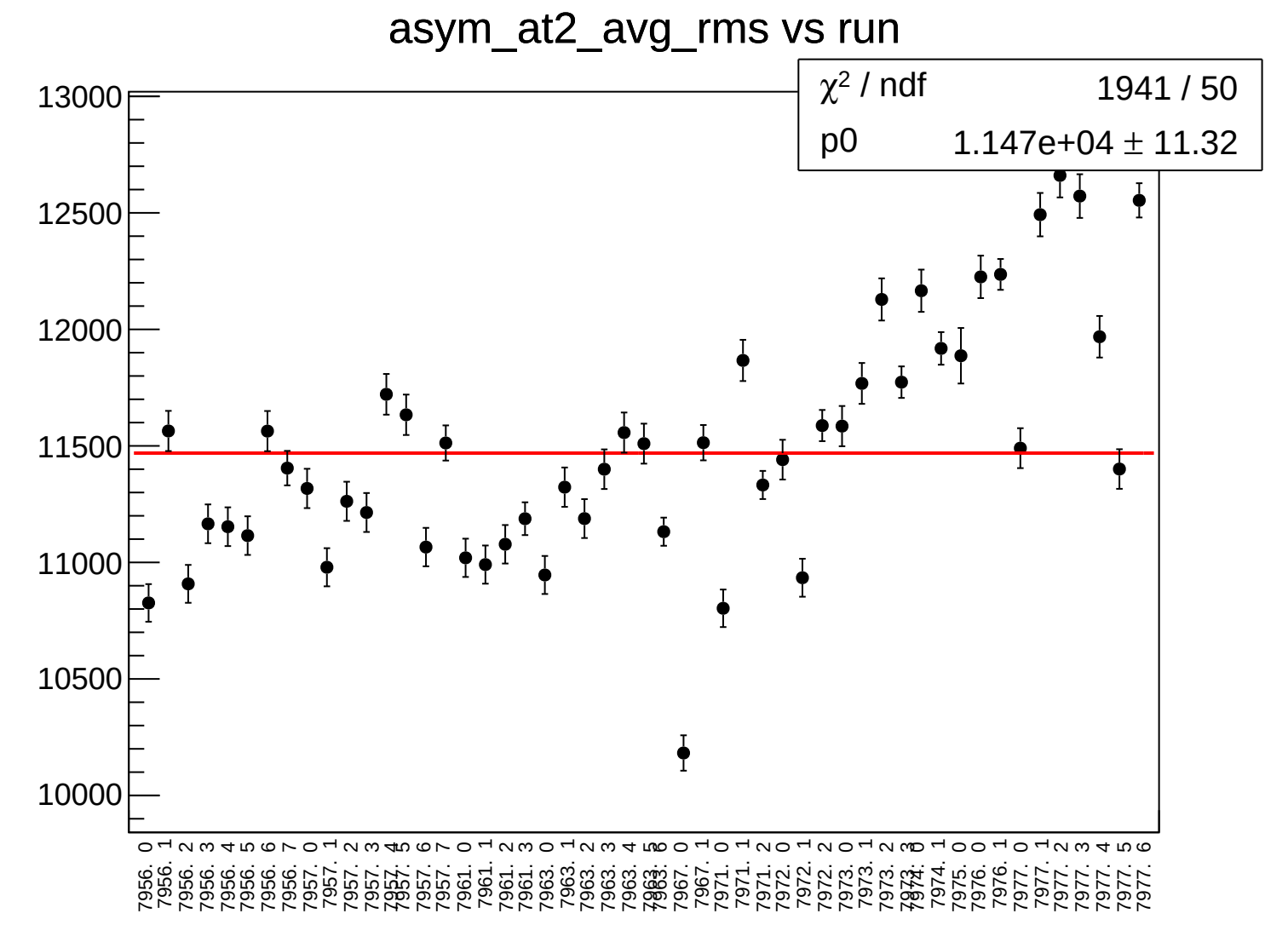

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 42.68 / 50
p0 1.111e+04 ± 1.581e+04
pull
Entries 51
Mean 171.3
Std Dev 118.2

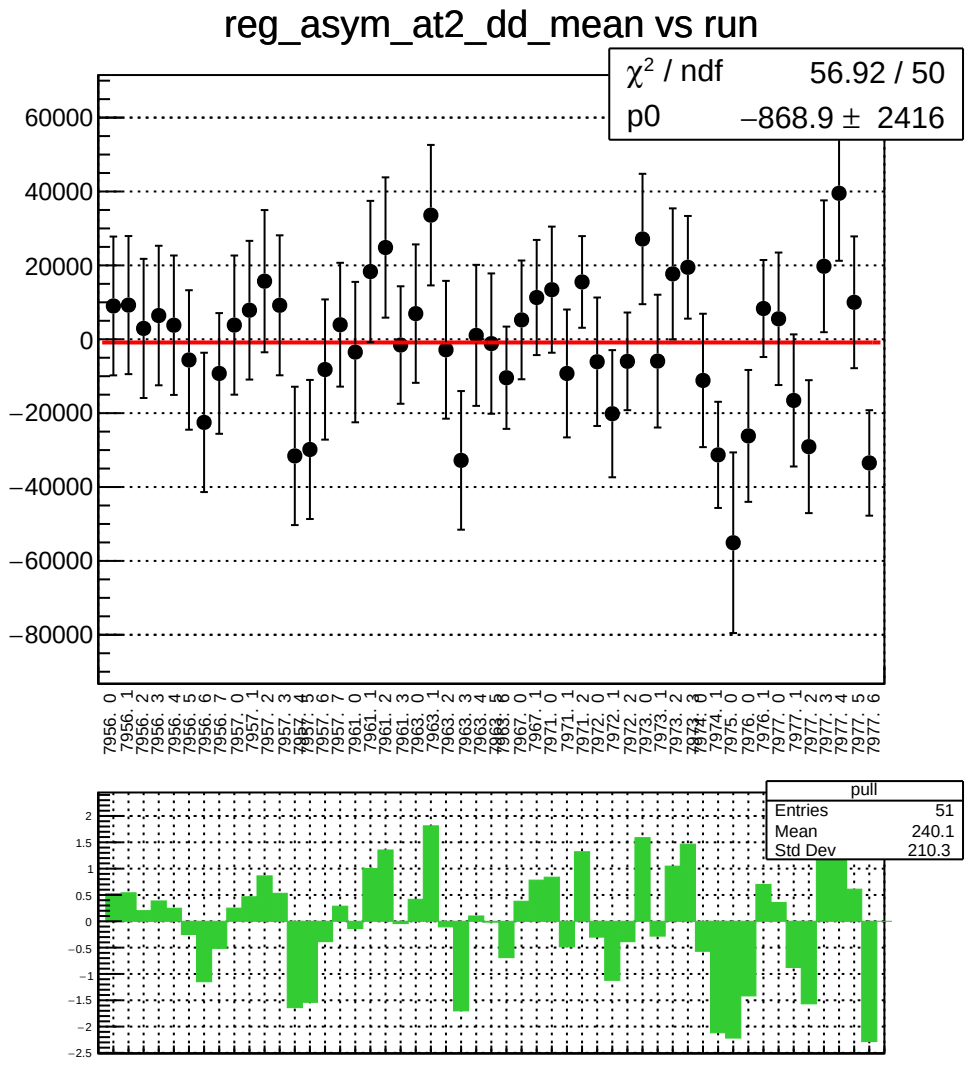

pull1D
Entries 51
Mean −0.005479
Std Dev 0.9148

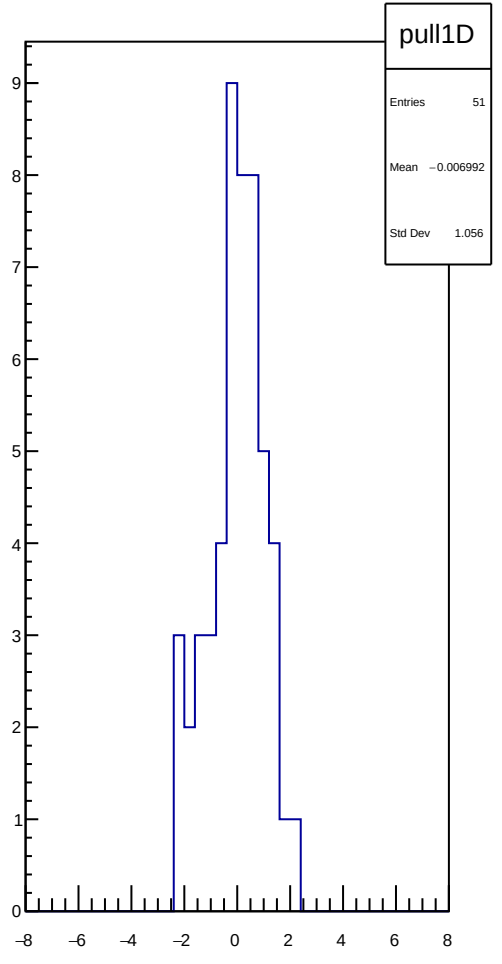

asym_at2_avg_correction_rms vs run
χ² / ndf 2040 / 50
p0 1.133e+04 ± 11.18
12500
12000
11500
11000
10500
10000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

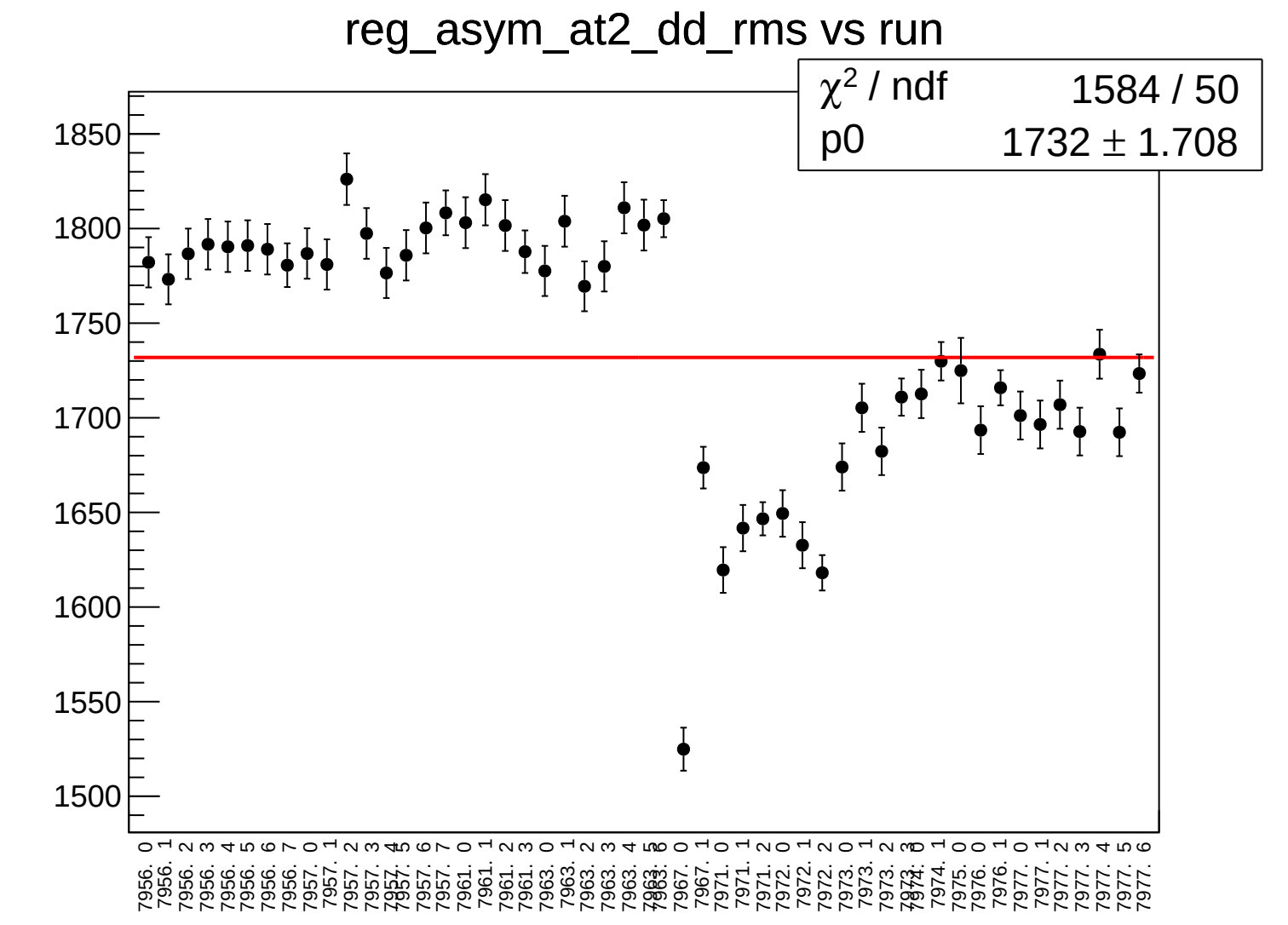

asym_at2_avg_mean vs run
×10^3
χ² / ndf 37.78 / 50
p0 −1.789e+04 ± 1.6e+04
pull
Entries 51
Mean 98.18
Std Dev 15.58

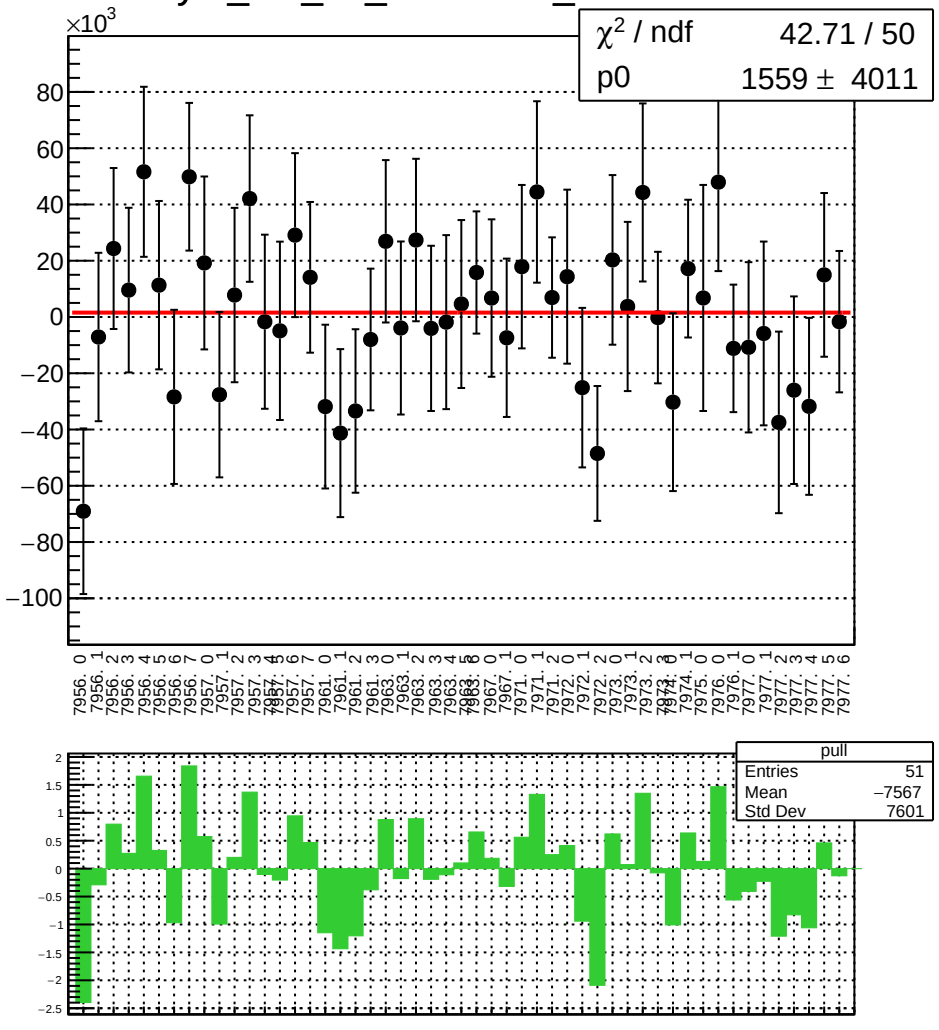

pull1D
Entries 51
Mean 0.007394
Std Dev 0.8606

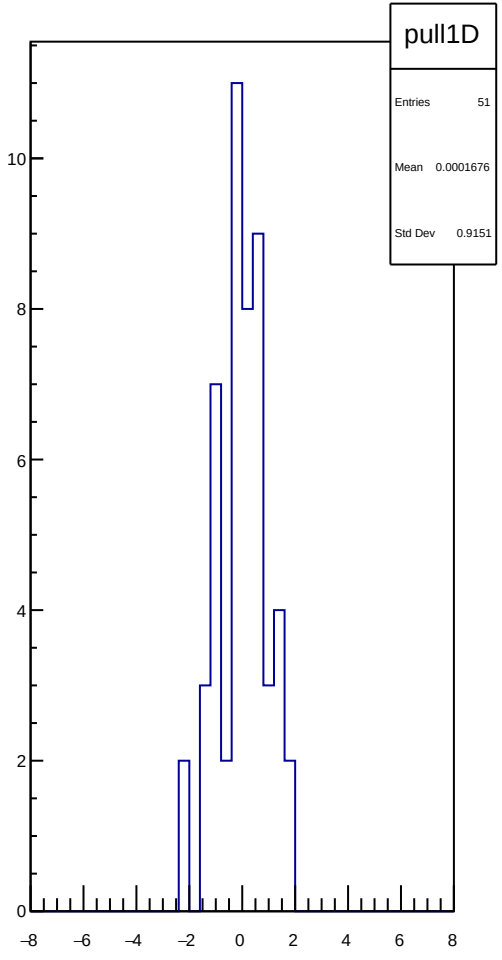

asym_at2_avg_rms vs run
χ² / ndf 1941 / 50
p0 1.147e+04 ± 11.32
13000
12500
12000
11500
11000
10500
10000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

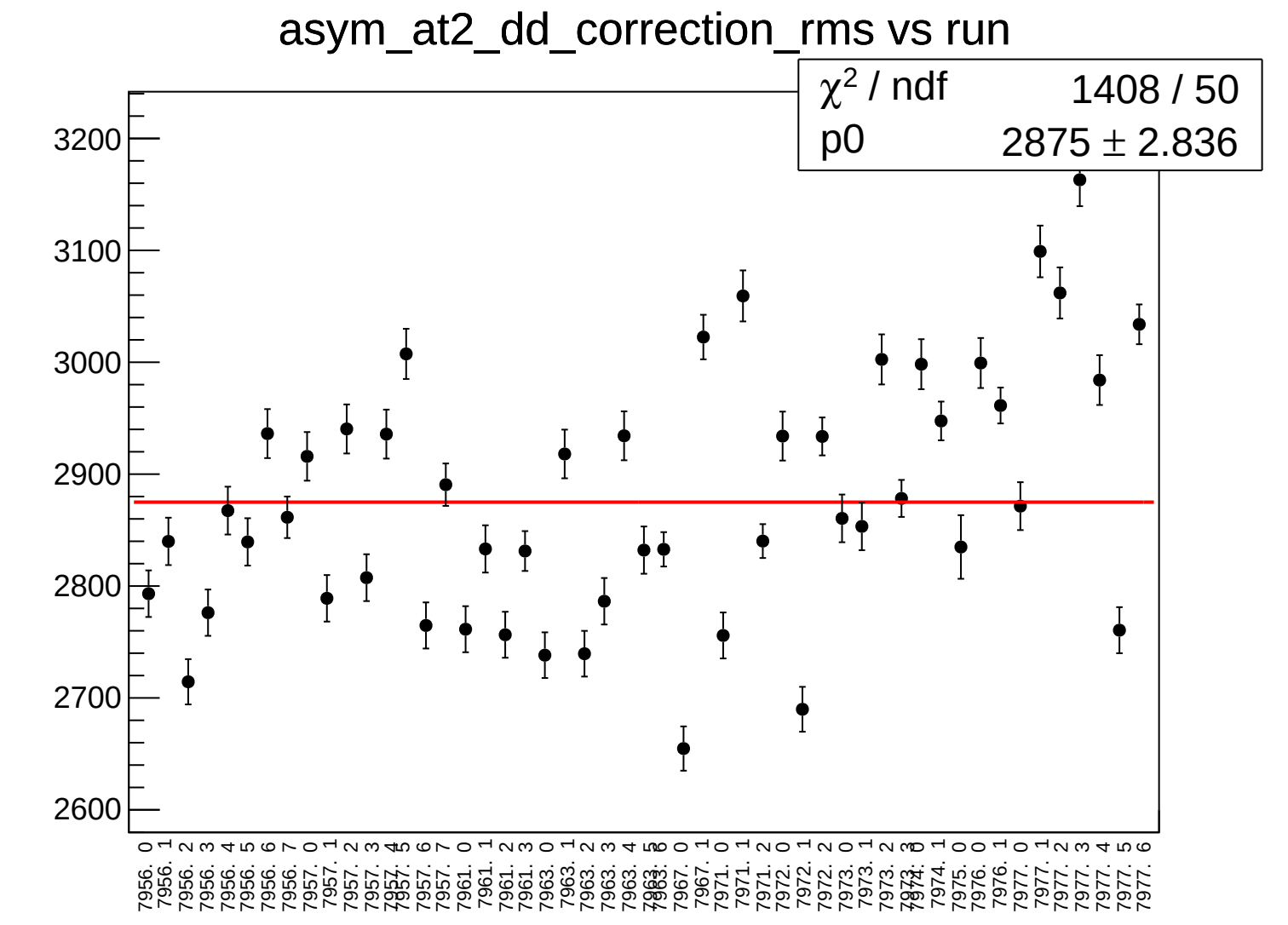

reg_asym_at2_dd_mean vs run
χ² / ndf 56.92 / 50
p0 −868.9 ± 2416
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 240.1
Std Dev 210.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.006992
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_rms vs run
χ² / ndf 1584 / 50
p0 1732 ± 1.708
1850
1800
1750
1700
1650
1600
1550
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_at2_dd_correction_mean vs run
χ² / ndf 42.71 / 50
p0 1559 ± 4011
×10³
pull
Entries 51
Mean −7567
Std Dev 7601


pull1D
Entries 51
Mean 0.0001676
Std Dev 0.9151


asym_at2_dd_correction_rms vs run
χ² / ndf 1408 / 50
p0 2875 ± 2.836
3200
3100
3000
2900
2800
2700
2600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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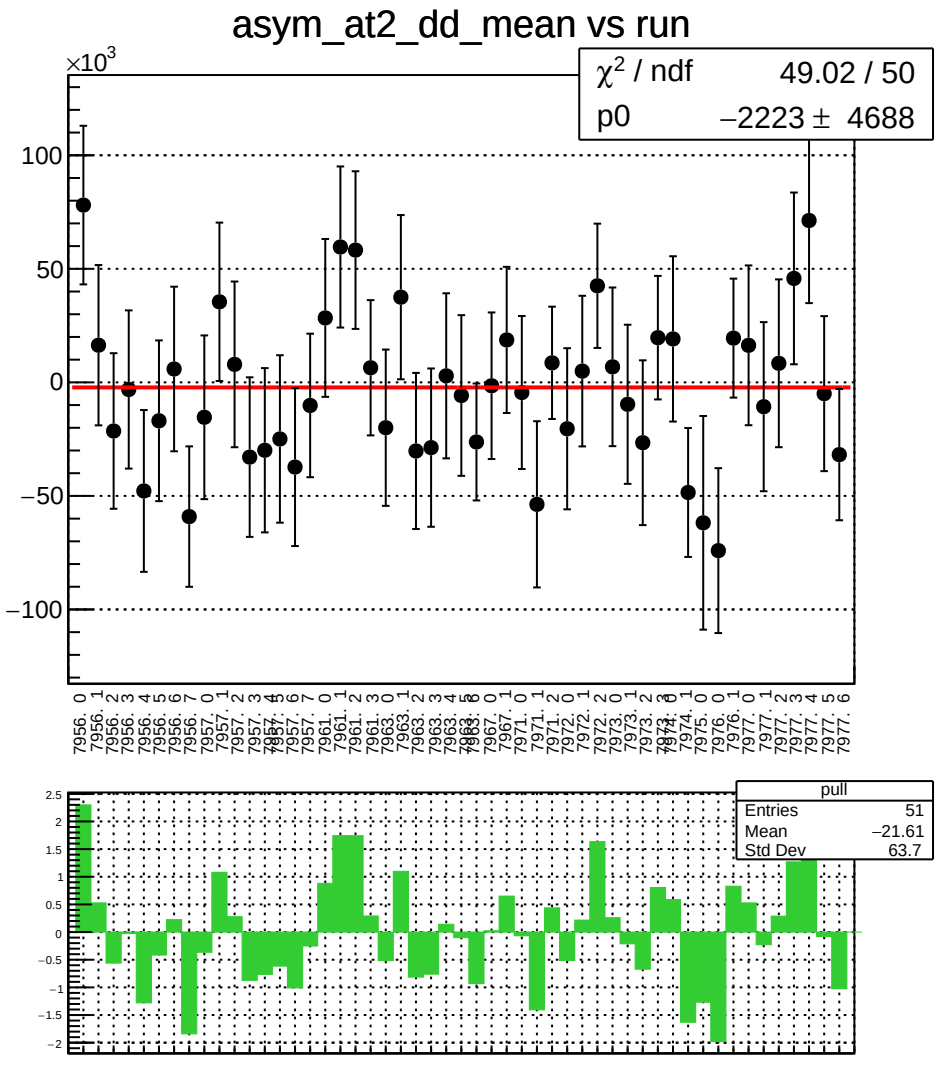
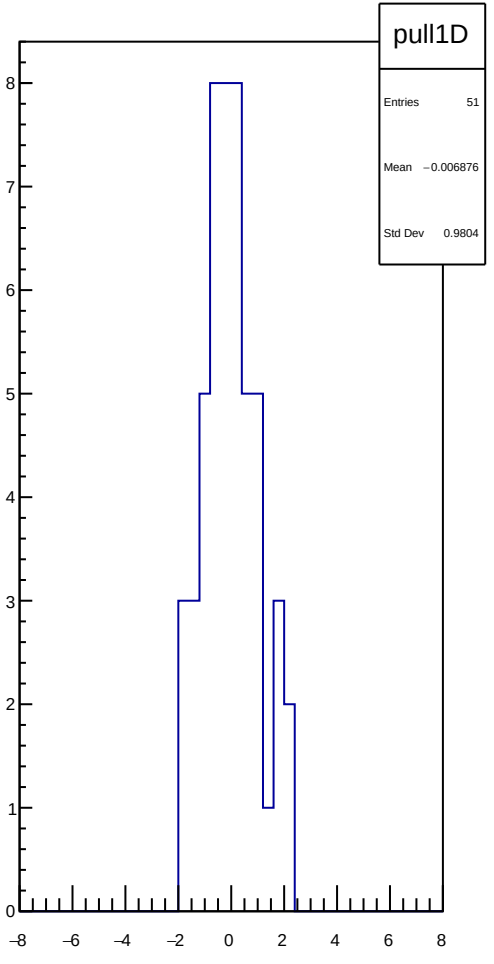
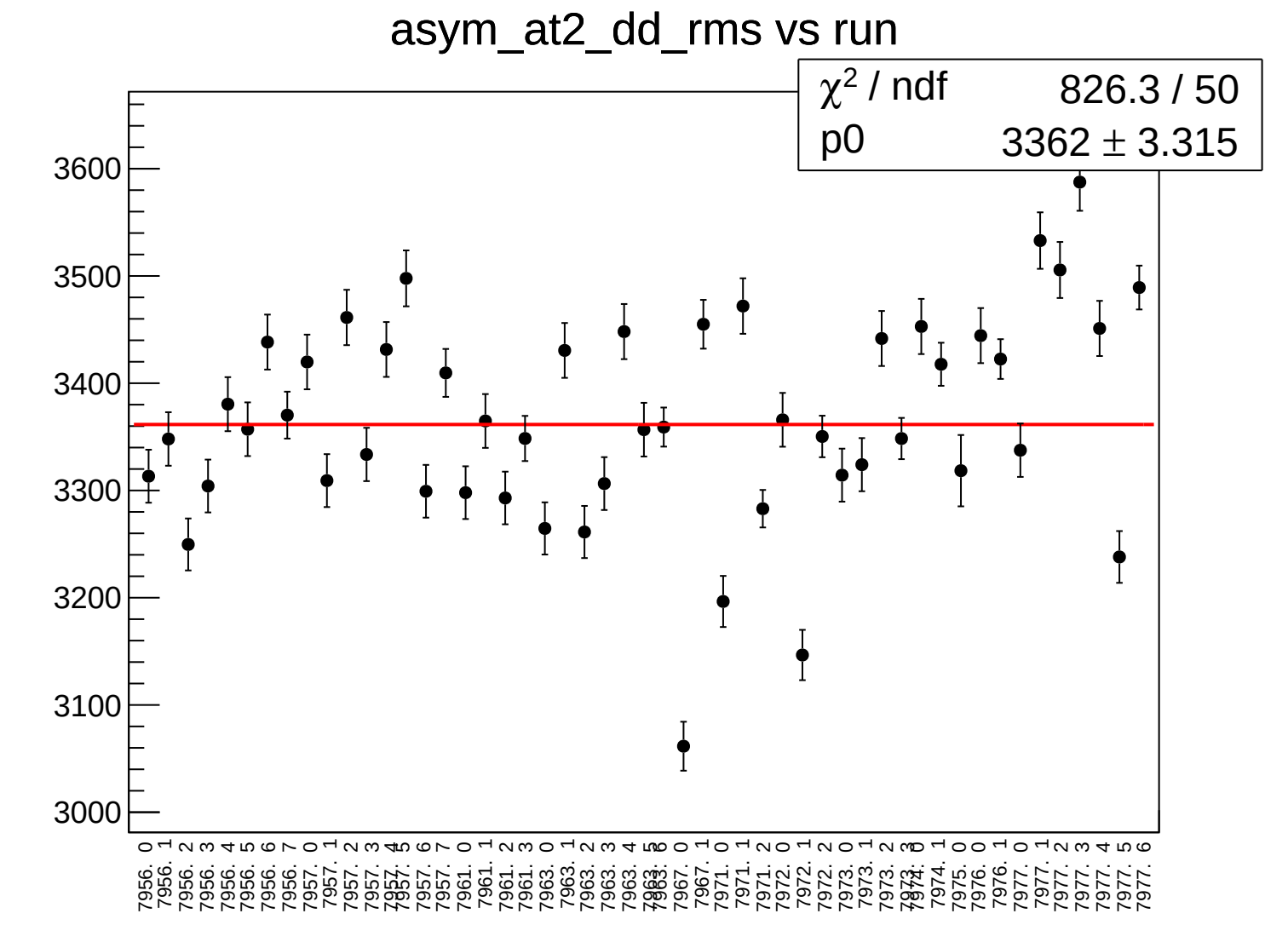
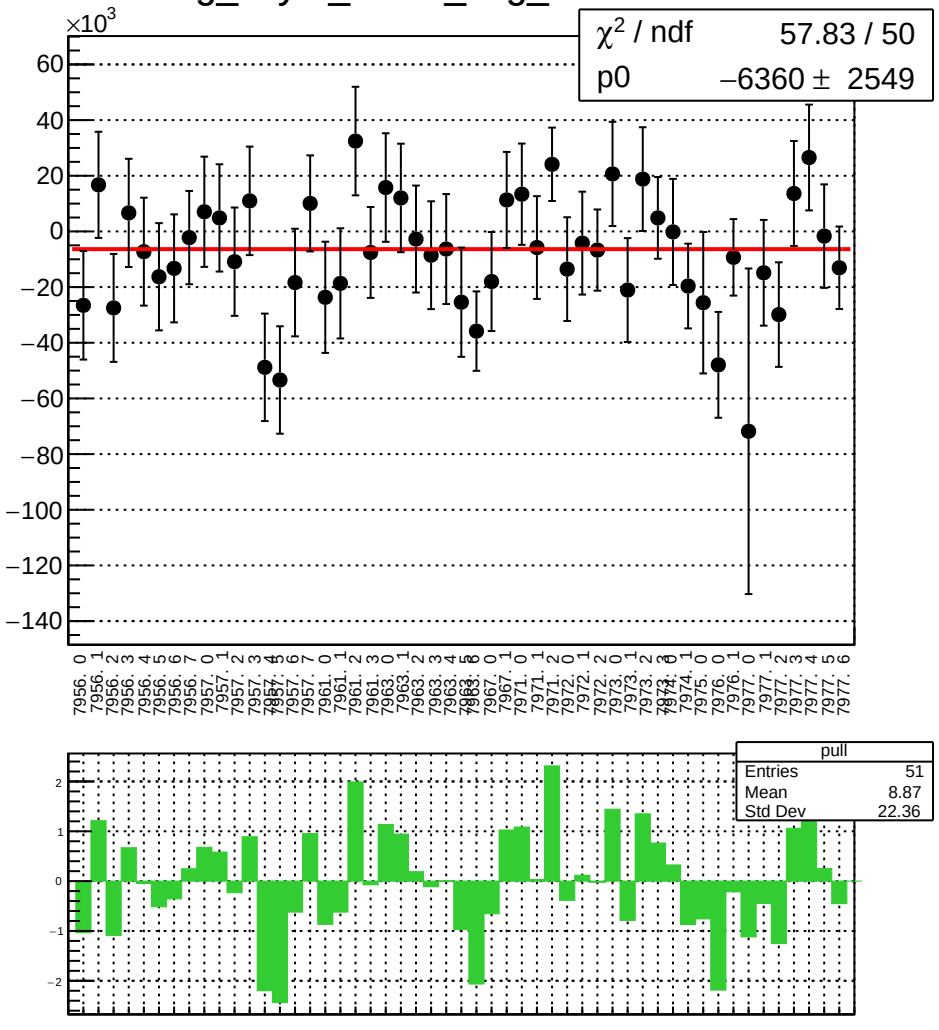
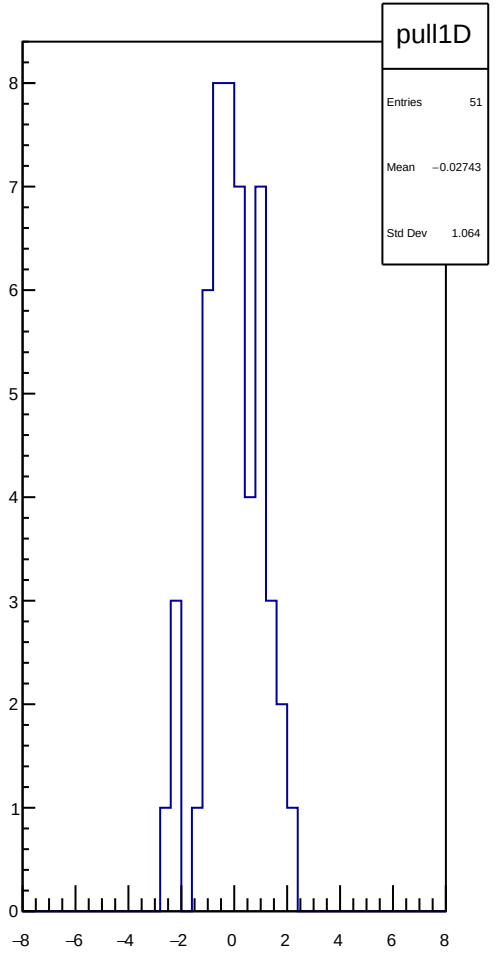
7977. 5
7977. 6

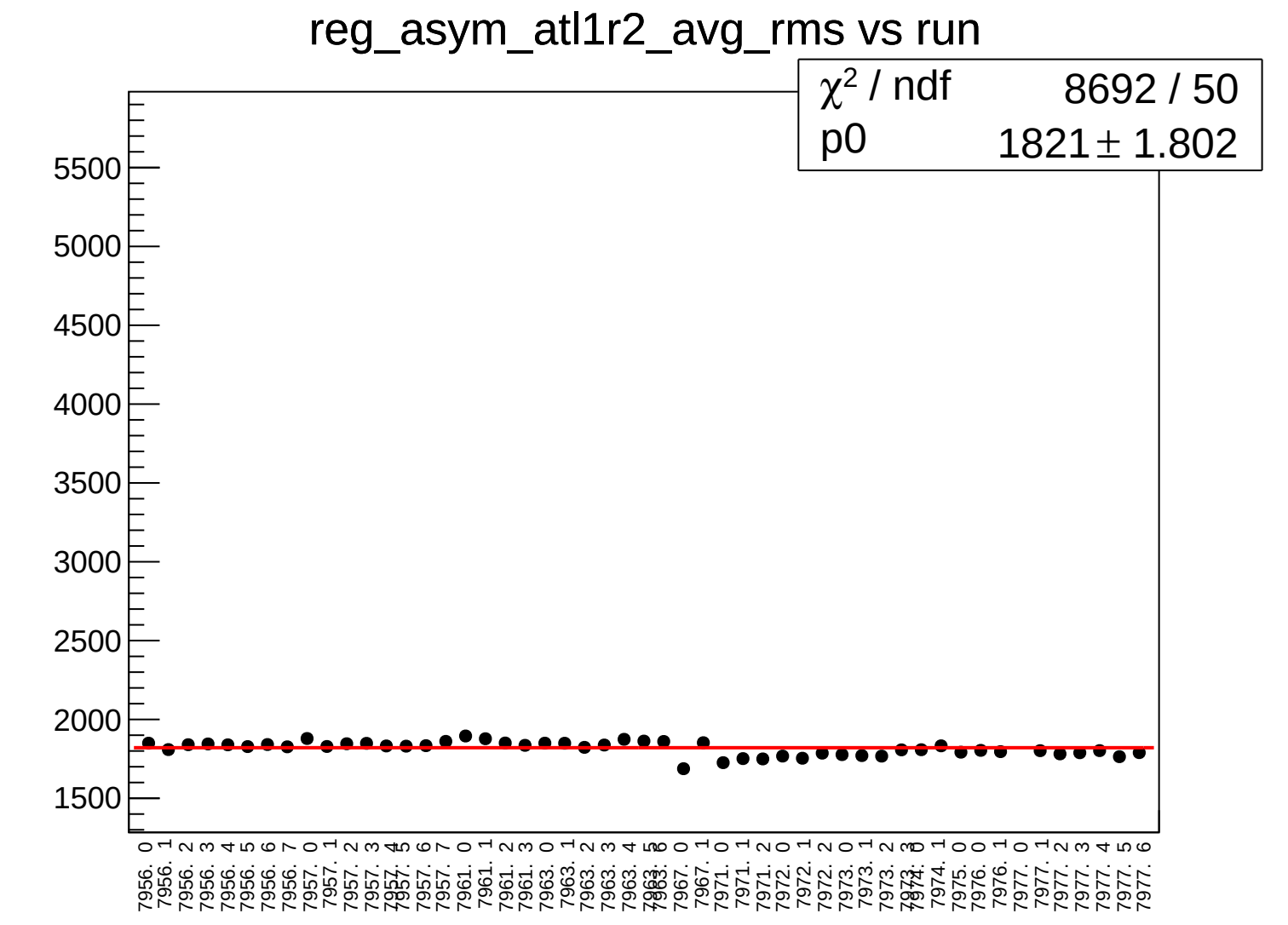

asym_at2_dd_mean vs run
×10^3
χ² / ndf 49.02 / 50
p0 −2223 ± 4688
100
50
0
−50
−100
pull
Entries 51
Mean −21.61
Std Dev 63.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

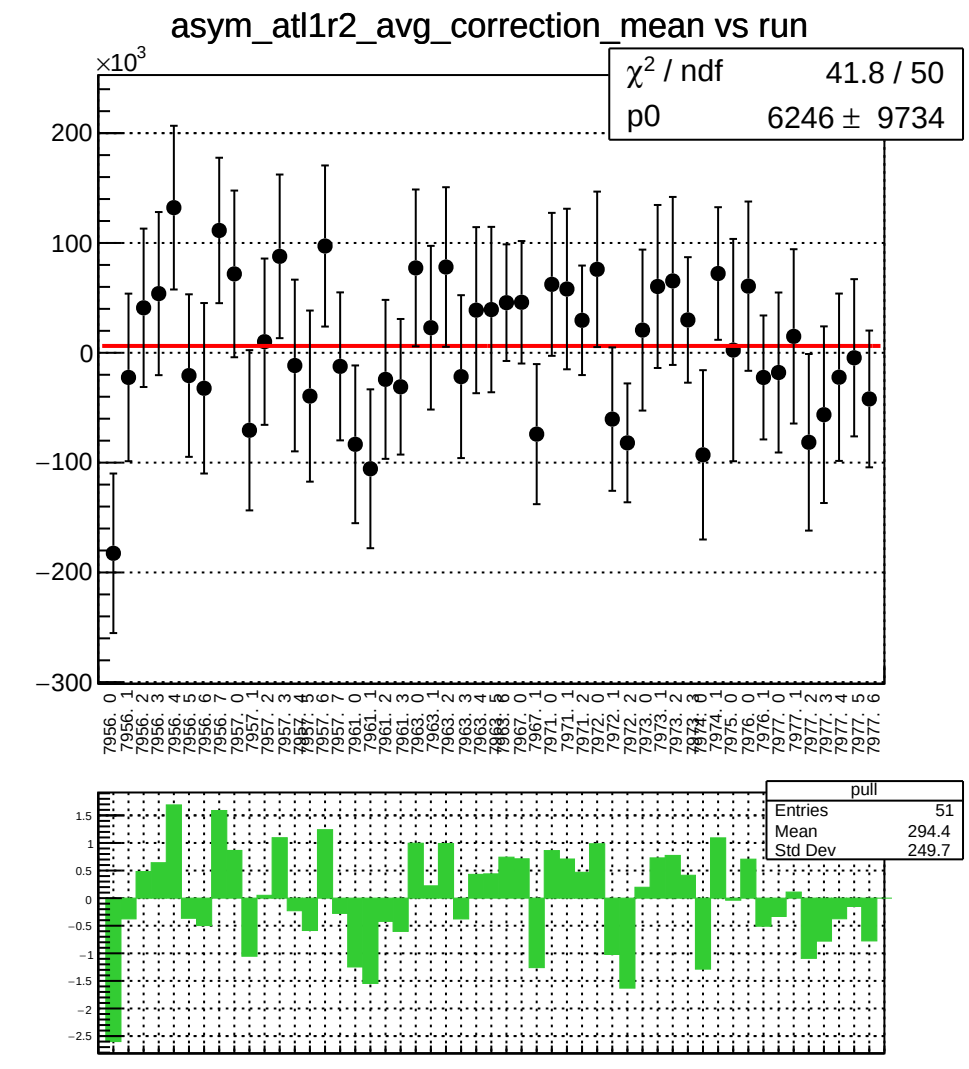

pull1D
Entries 51
Mean −0.006876
Std Dev 0.9804
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

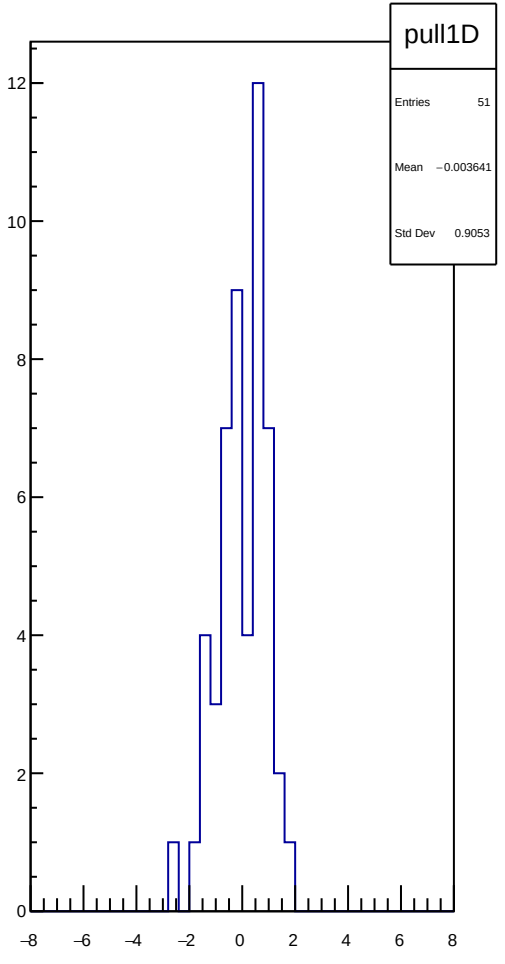

asym_at2_dd_rms vs run
χ² / ndf 826.3 / 50
p0 3362 ± 3.315
3600
3500
3400
3300
3200
3100
3000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

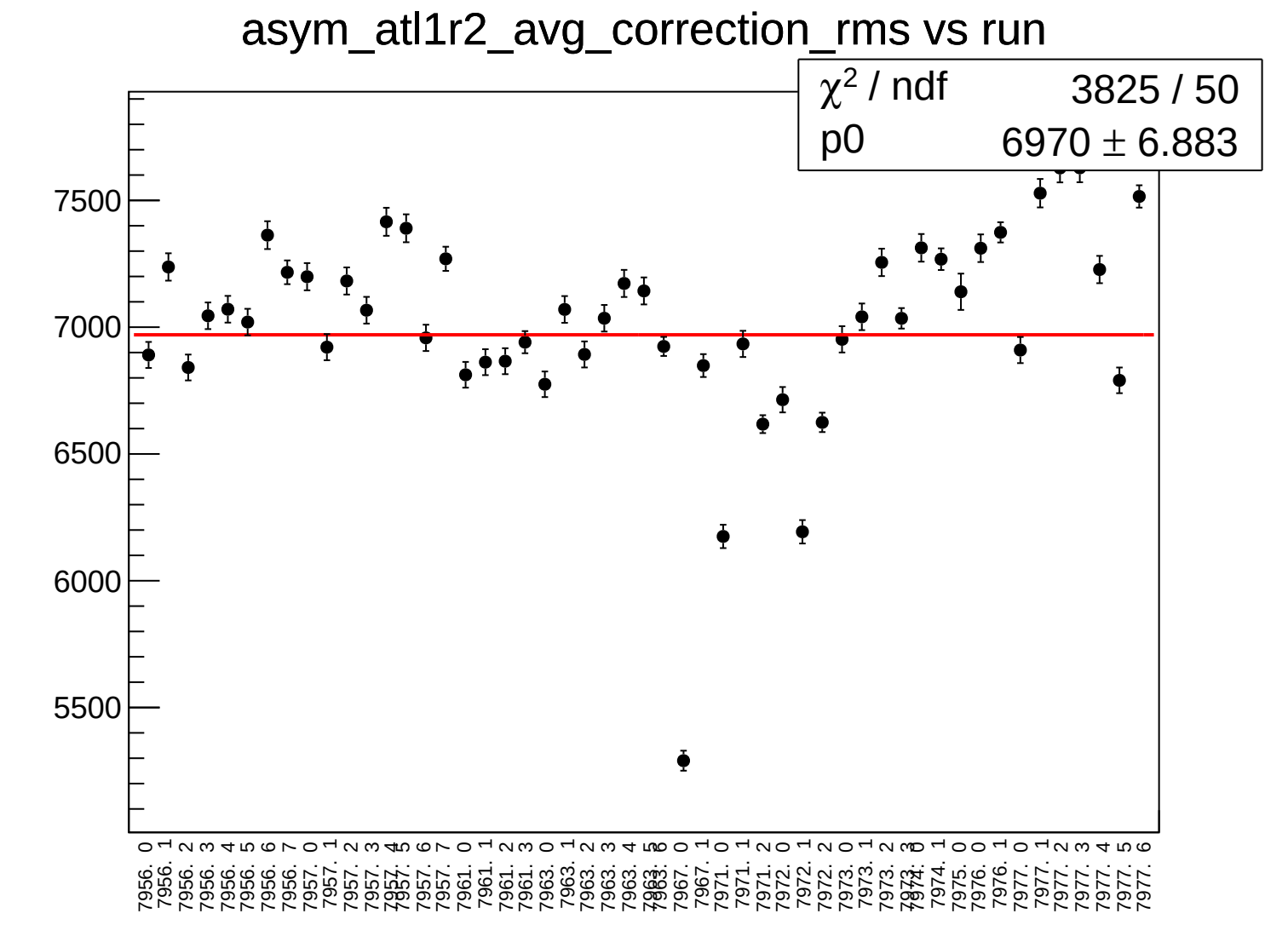

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 57.83 / 50
p0 −6360 ± 2549
pull
Entries 51
Mean 8.87
Std Dev 22.36

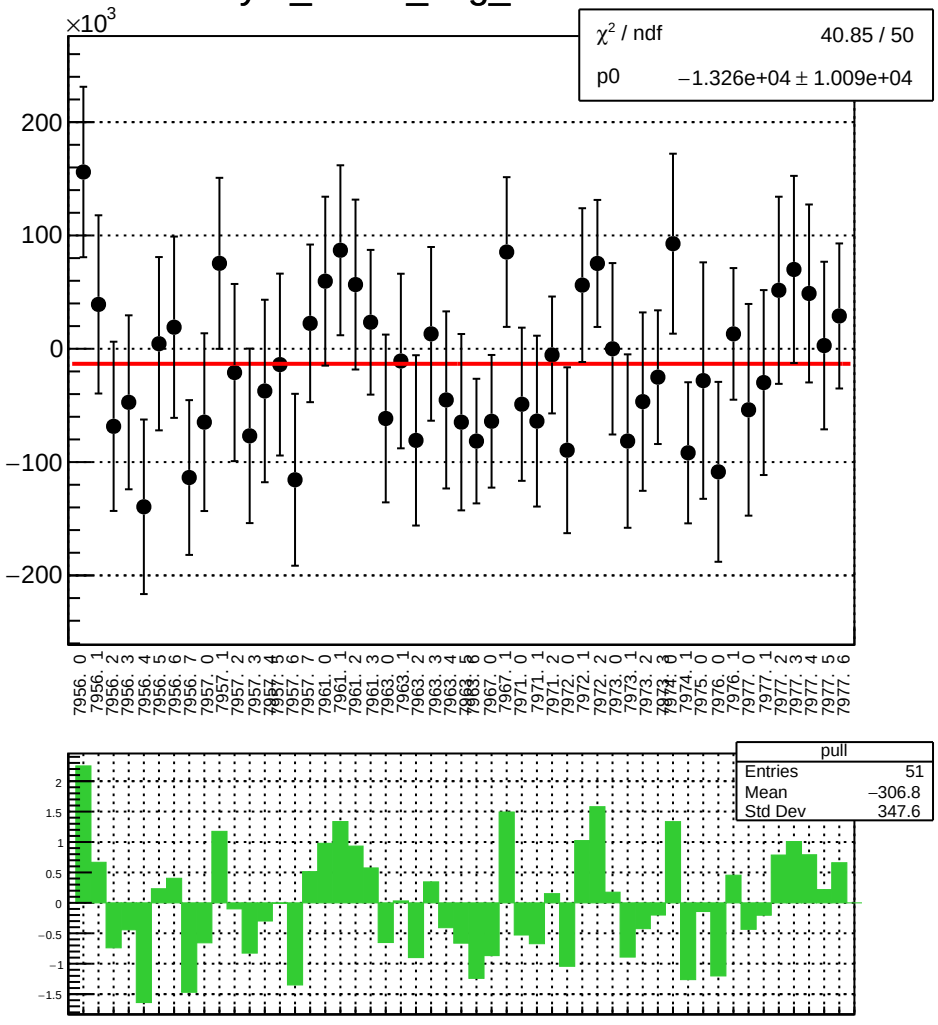

pull1D
Entries 51
Mean −0.02743
Std Dev 1.064

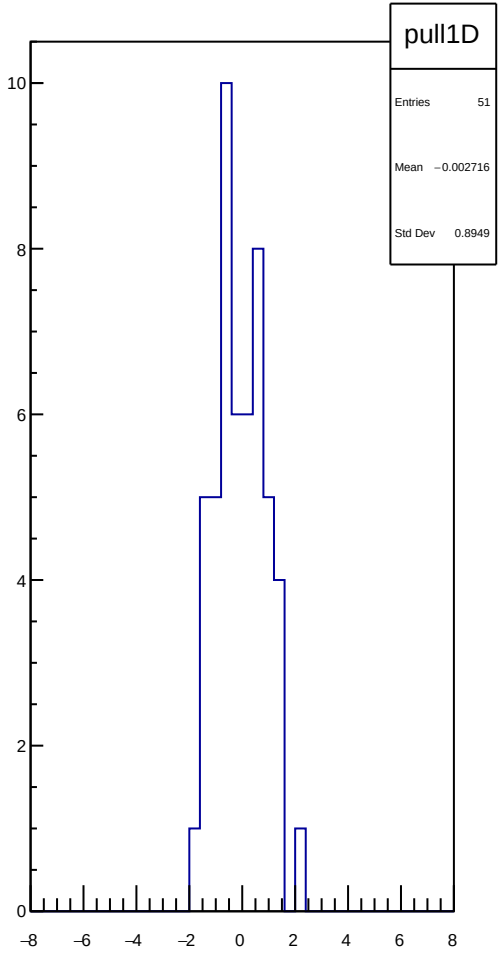

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8692 / 50
p0 1821 ± 1.802
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

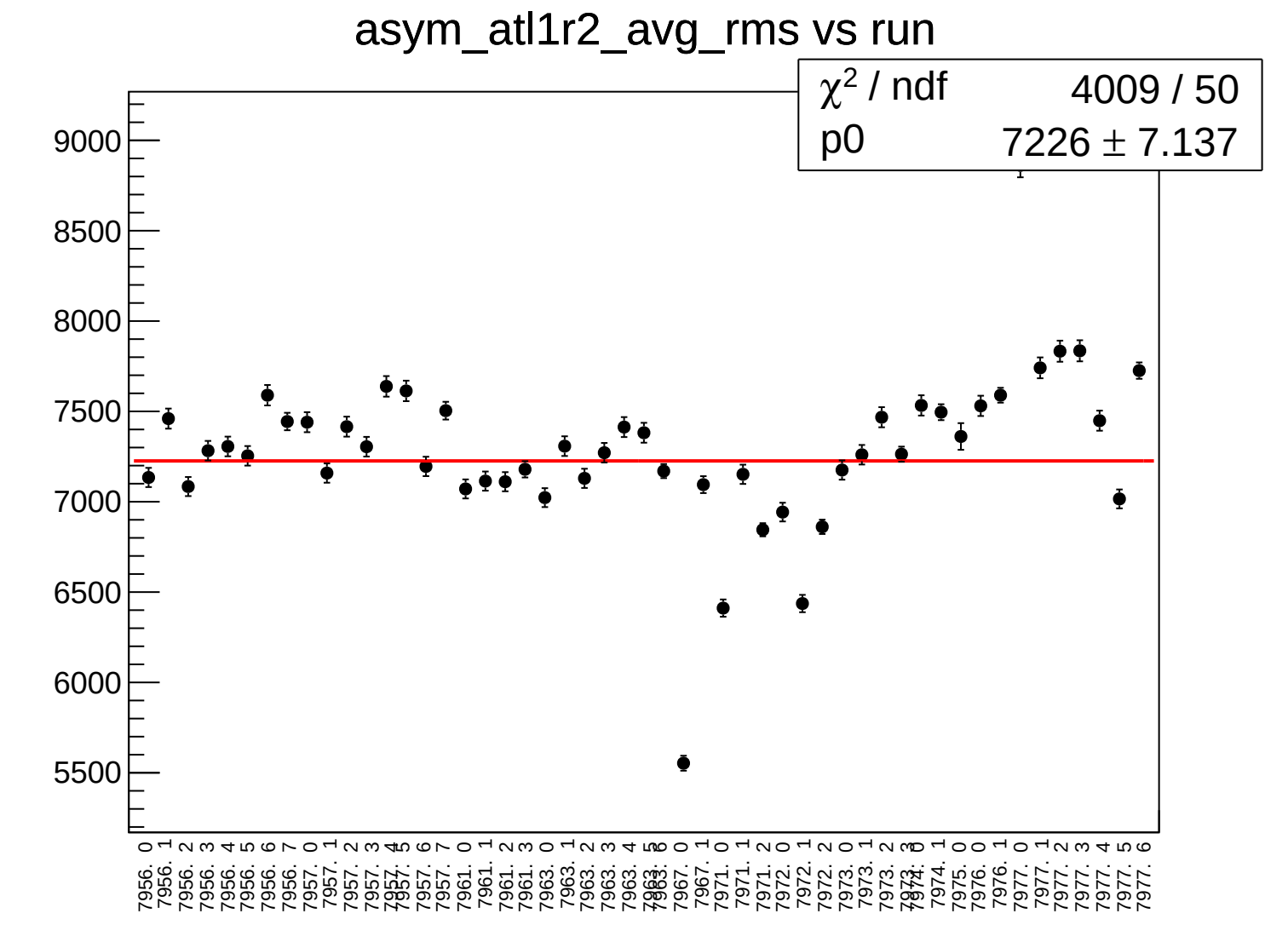

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 41.8 / 50
p0 6246 ± 9734
pull
Entries 51
Mean 294.4
Std Dev 249.7


pull1D
Entries 51
Mean −0.003641
Std Dev 0.9053


asym_atl1r2_avg_correction_rms vs run
χ² / ndf 3825 / 50
p0 6970 ± 6.883
7500
7000
6500
6000
5500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 40.85 / 50
p0 −1.326e+04 ± 1.009e+04
200
100
0
−100
−200
pull
Entries 51
Mean −306.8
Std Dev 347.6
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.002716
Std Dev 0.8949
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_avg_rms vs run
χ² / ndf 4009 / 50
p0 7226 ± 7.137
9000
8500
8000
7500
7000
6500
6000
5500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
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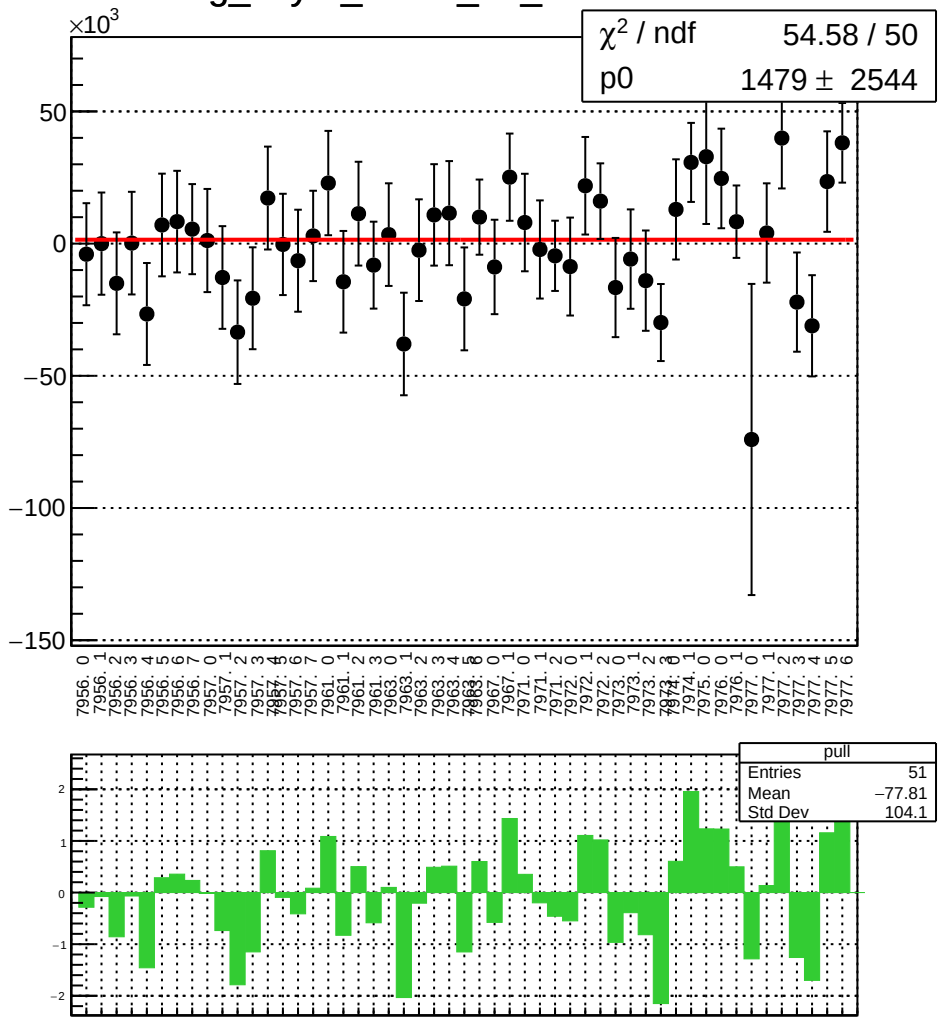
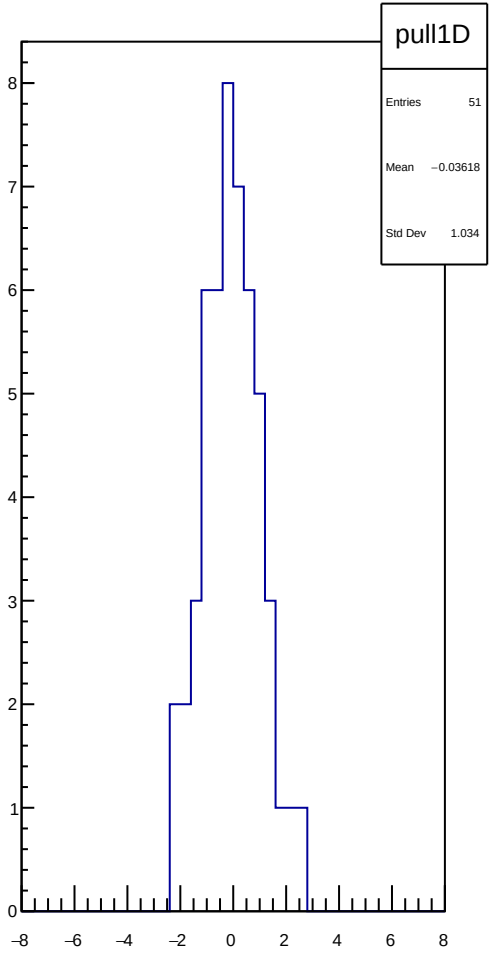
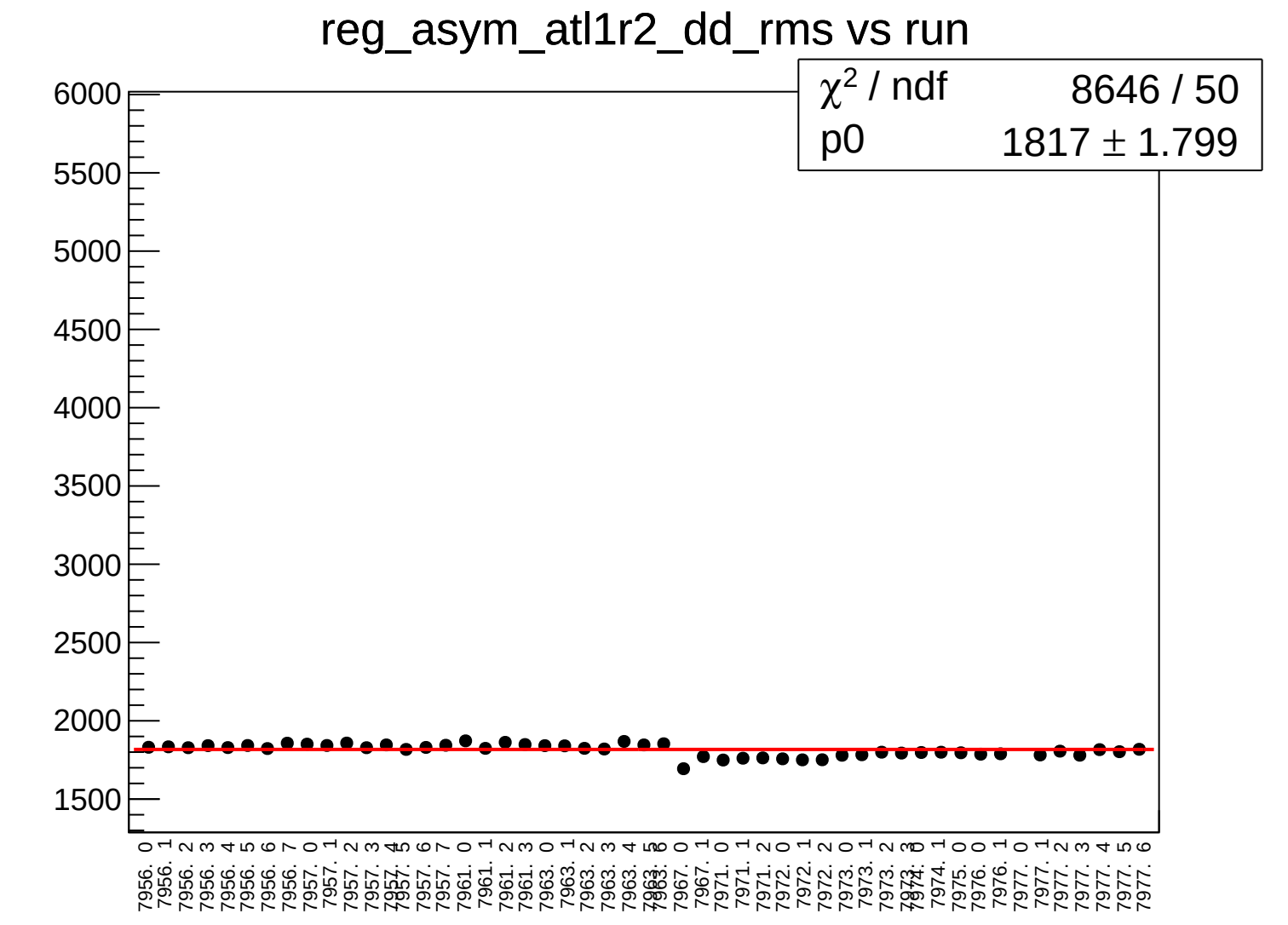
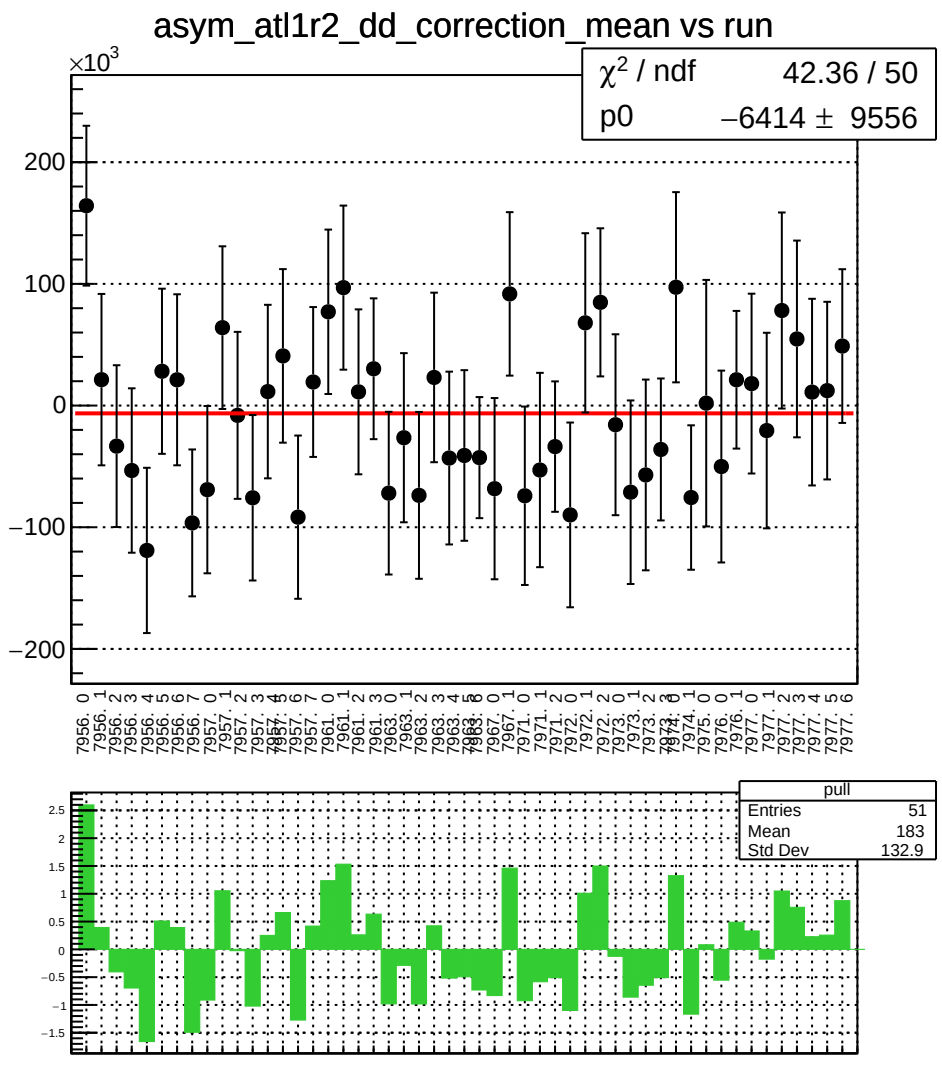
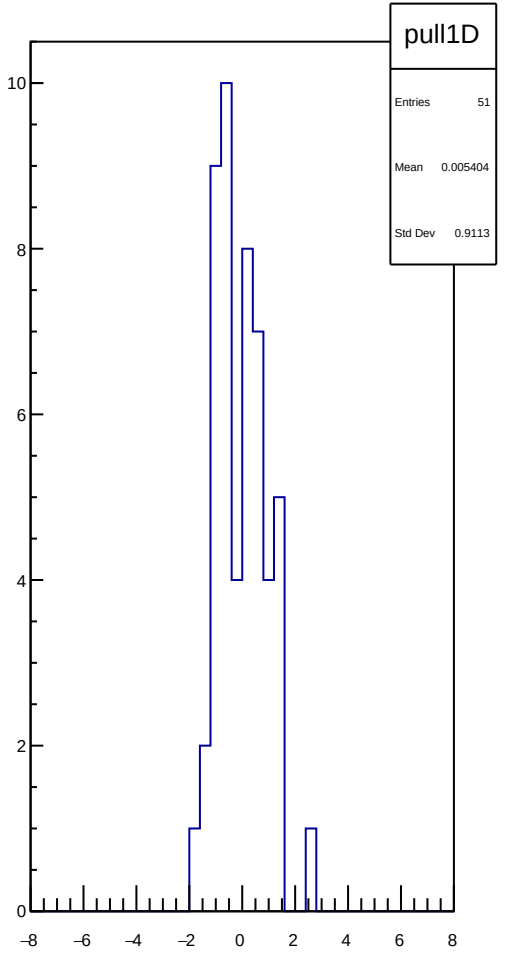
7977. 5
7977. 6

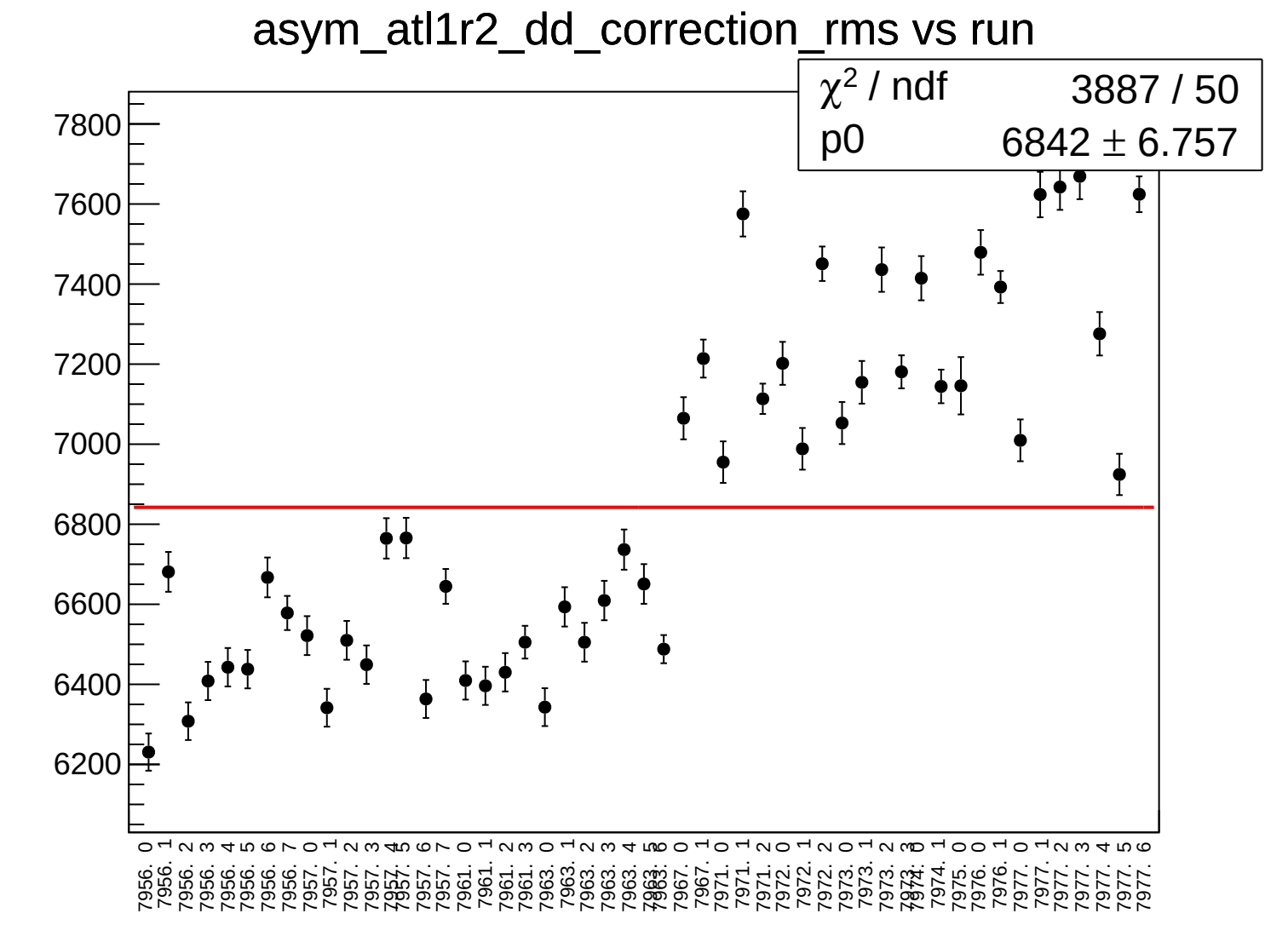

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 54.58 / 50
p0 1479 ± 2544
×10³
pull
Entries 51
Mean −77.81
Std Dev 104.1


pull1D
Entries 51
Mean −0.03618
Std Dev 1.034


reg_asym_atl1r2_dd_rms vs run
χ² / ndf 8646 / 50
p0 1817 ± 1.799
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl1r2_dd_correction_mean vs run
χ² / ndf 42.36 / 50
p0 −6414 ± 9556
×10³
200
100
0
−100
−200
pull
Entries 51
Mean 183
Std Dev 132.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.005404
Std Dev 0.9113
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3887 / 50
p0 6842 ± 6.757
7800
7600
7400
7200
7000
6800
6600
6400
6200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
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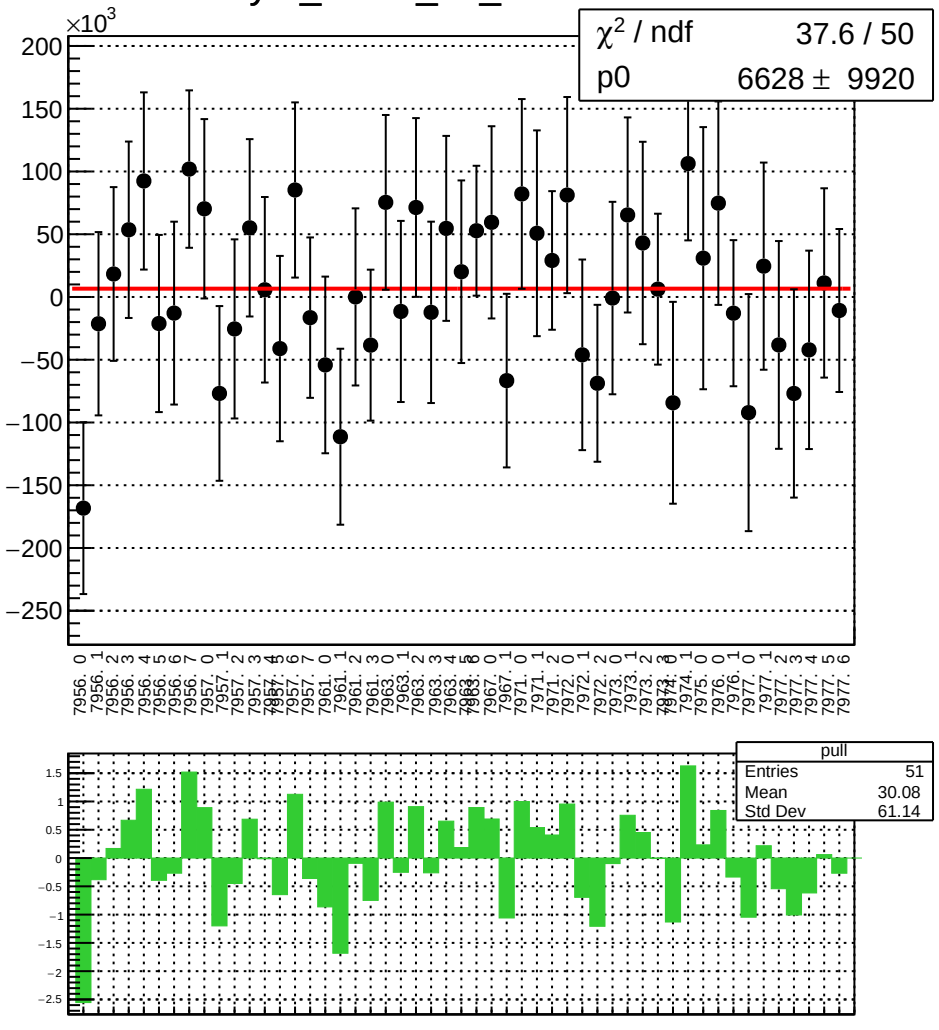
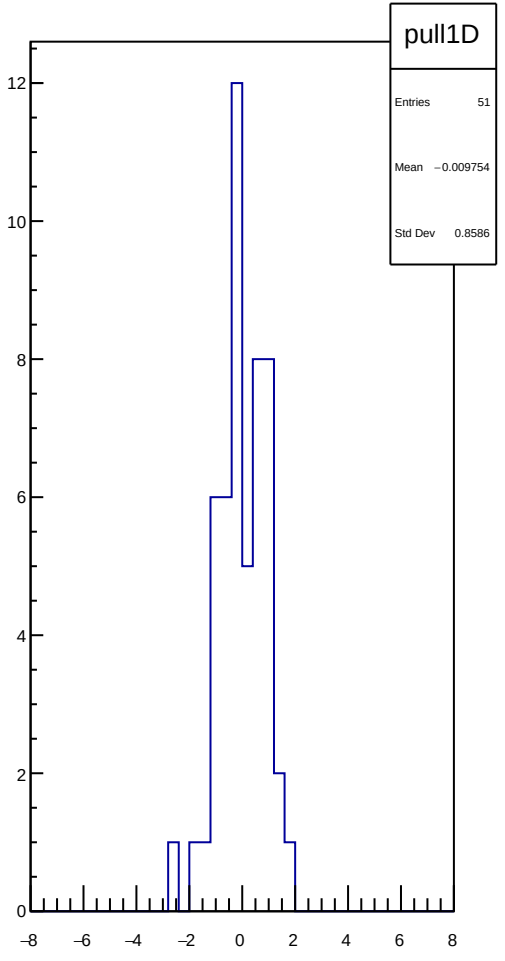
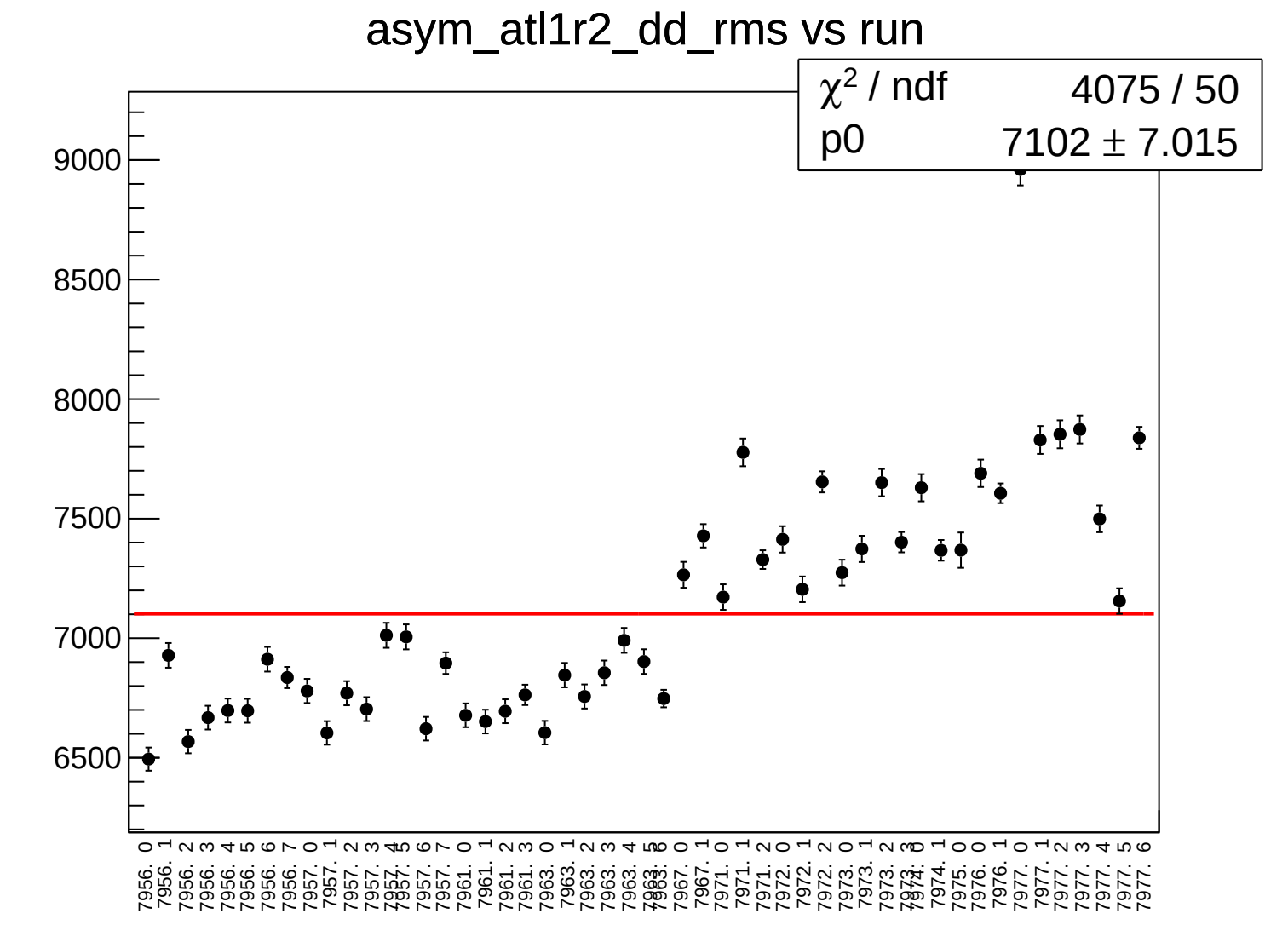
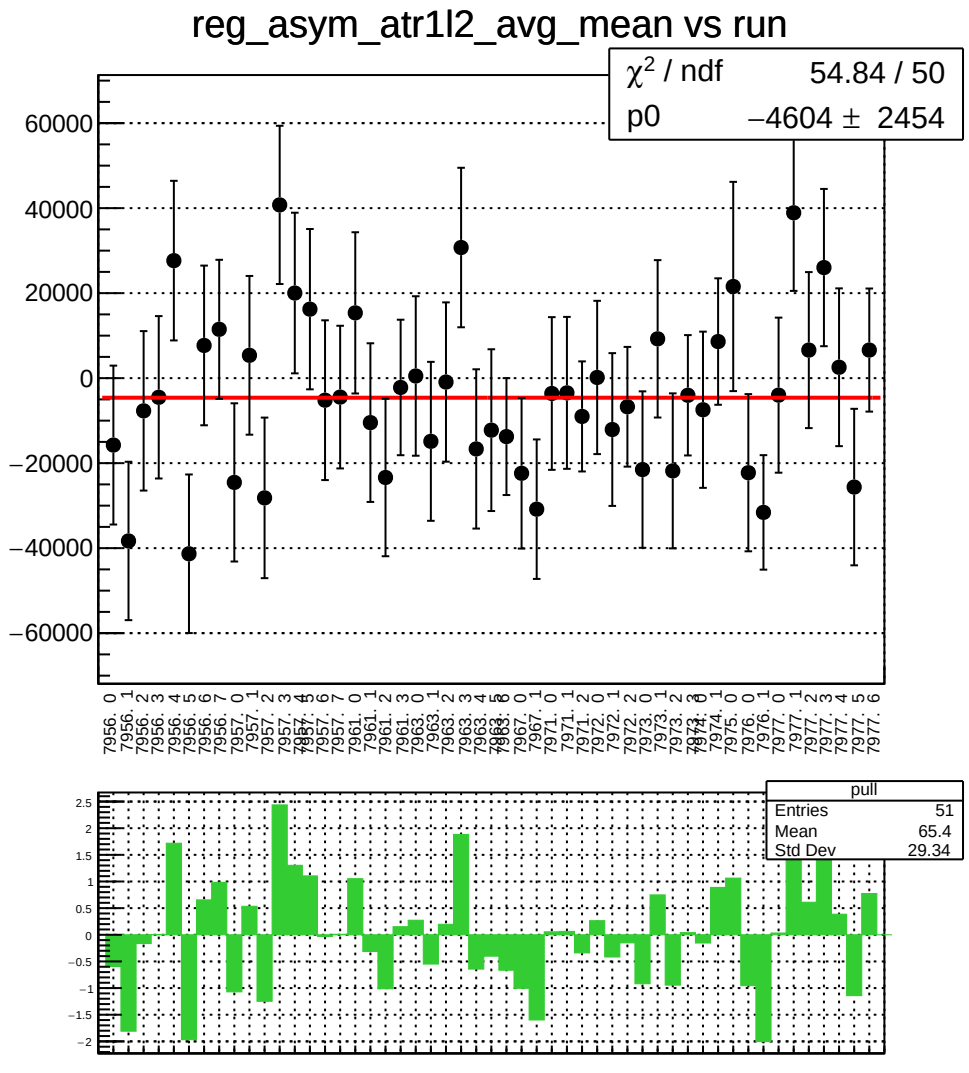
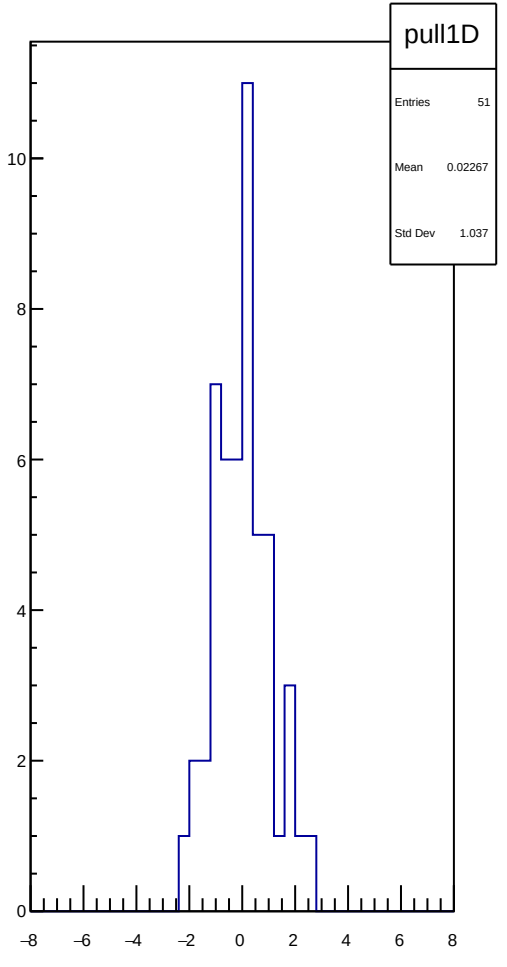
7977. 5
7977. 6

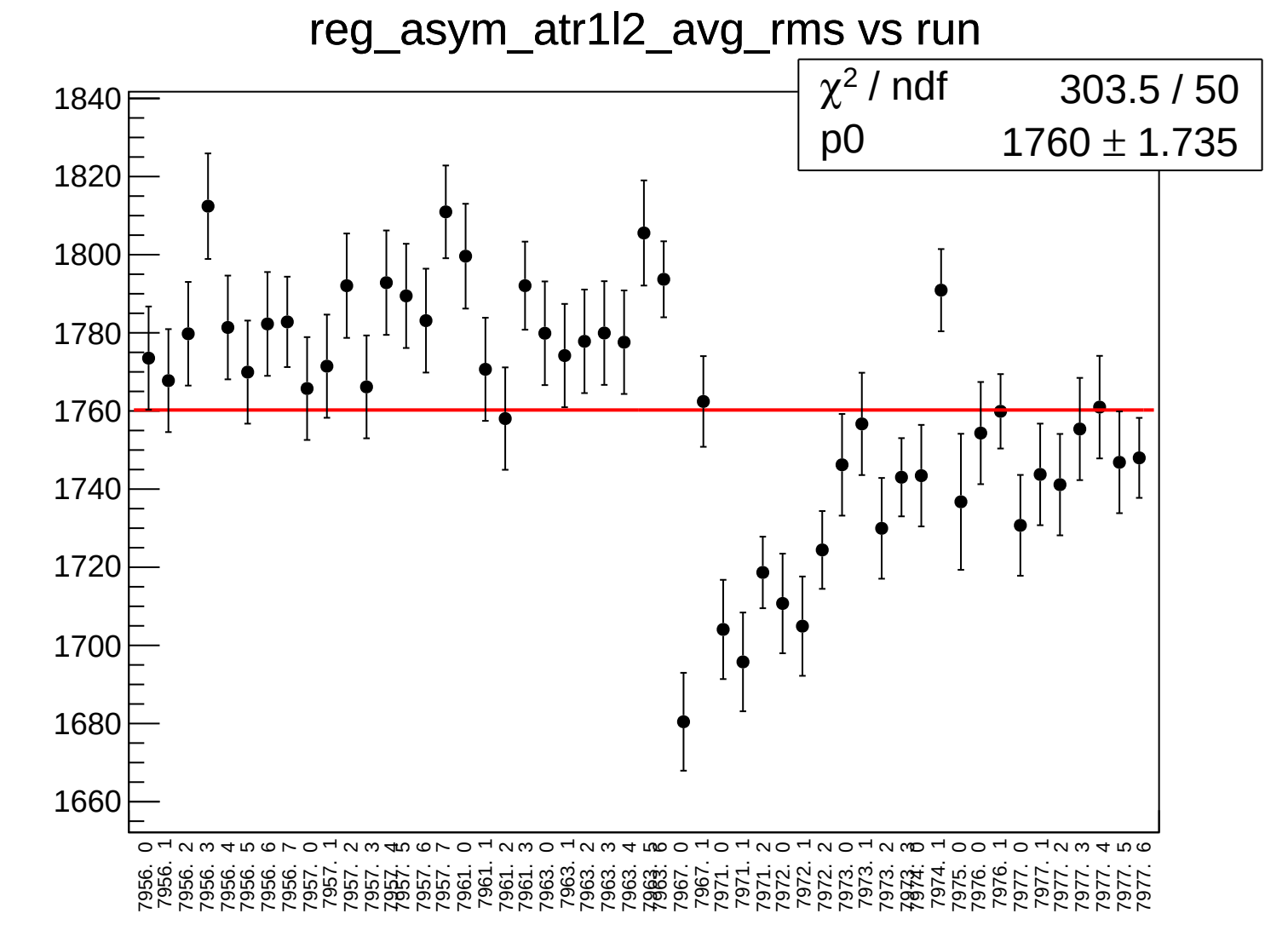

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 37.6 / 50
p0 6628 ± 9920
pull
Entries 51
Mean 30.08
Std Dev 61.14

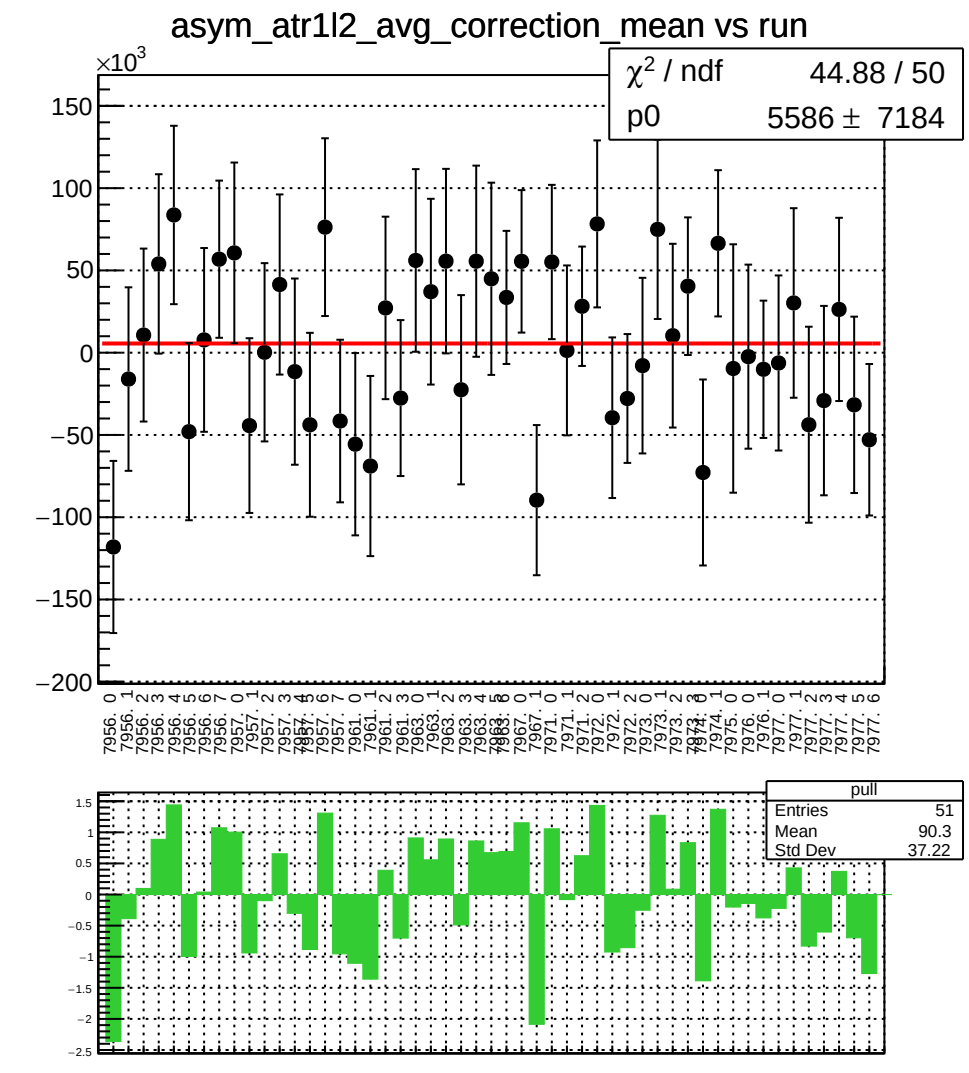

pull1D
Entries 51
Mean −0.009754
Std Dev 0.8586

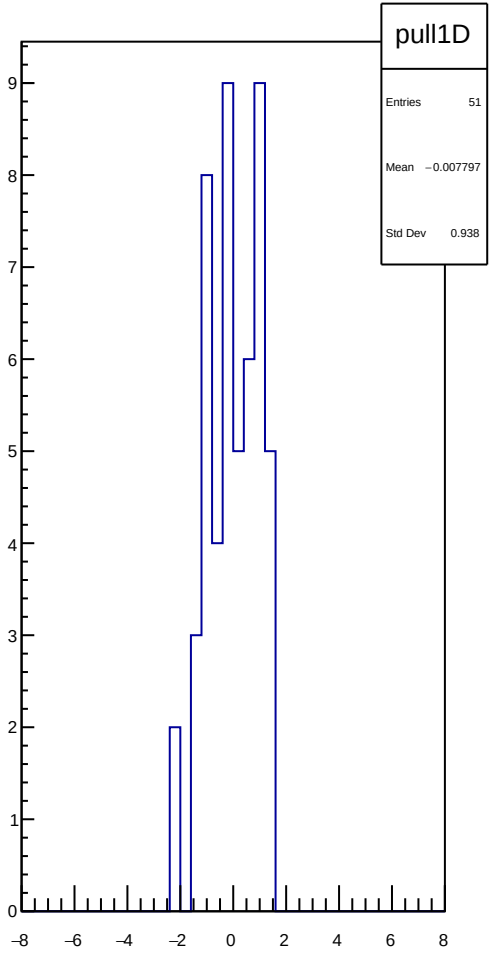

asym_atl1r2_dd_rms vs run
χ² / ndf 4075 / 50
p0 7102 ± 7.015
9000
8500
8000
7500
7000
6500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

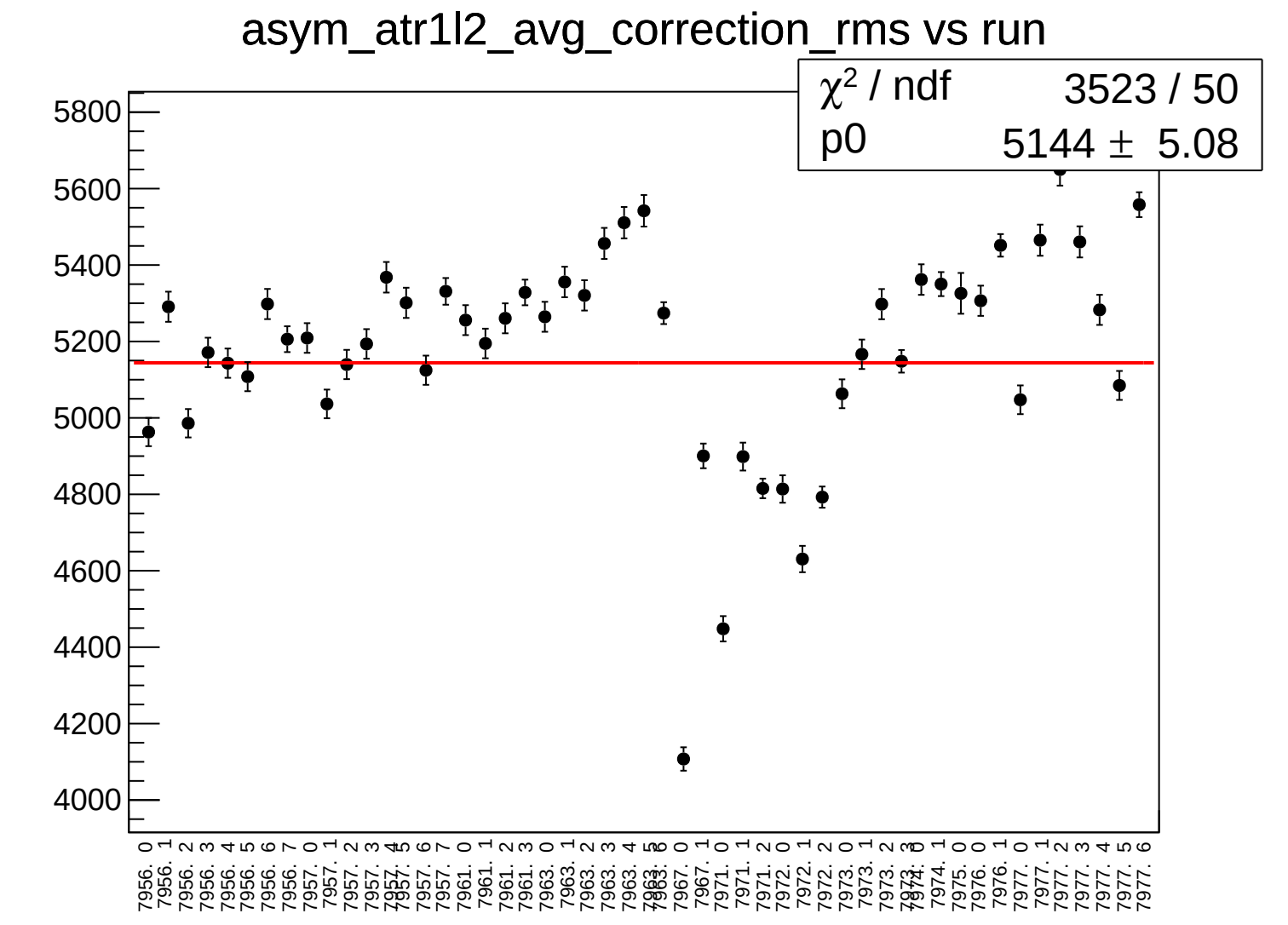

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 54.84 / 50
p0 −4604 ± 2454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 65.4
Std Dev 29.34
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.02267
Std Dev 1.037
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_rms vs run
χ² / ndf 303.5 / 50
p0 1760 ± 1.735
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 44.88 / 50
p0 5586 ± 7184
pull
Entries 51
Mean 90.3
Std Dev 37.22


pull1D
Entries 51
Mean −0.007797
Std Dev 0.938


asym_atr1l2_avg_correction_rms vs run
χ² / ndf 3523 / 50
p0 5144 ± 5.08
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
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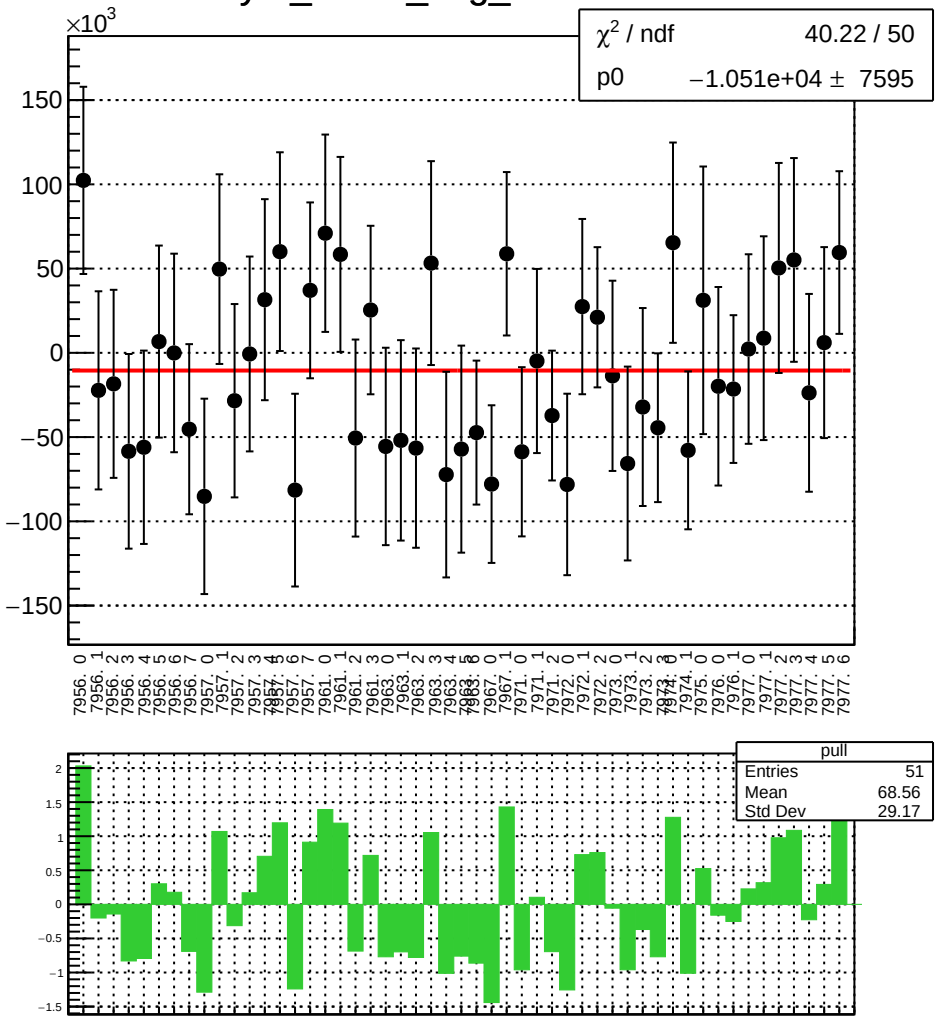
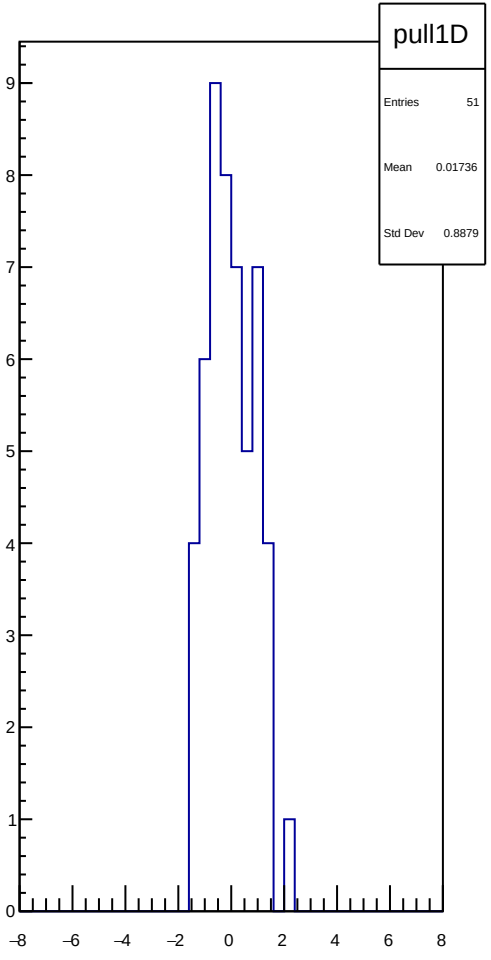
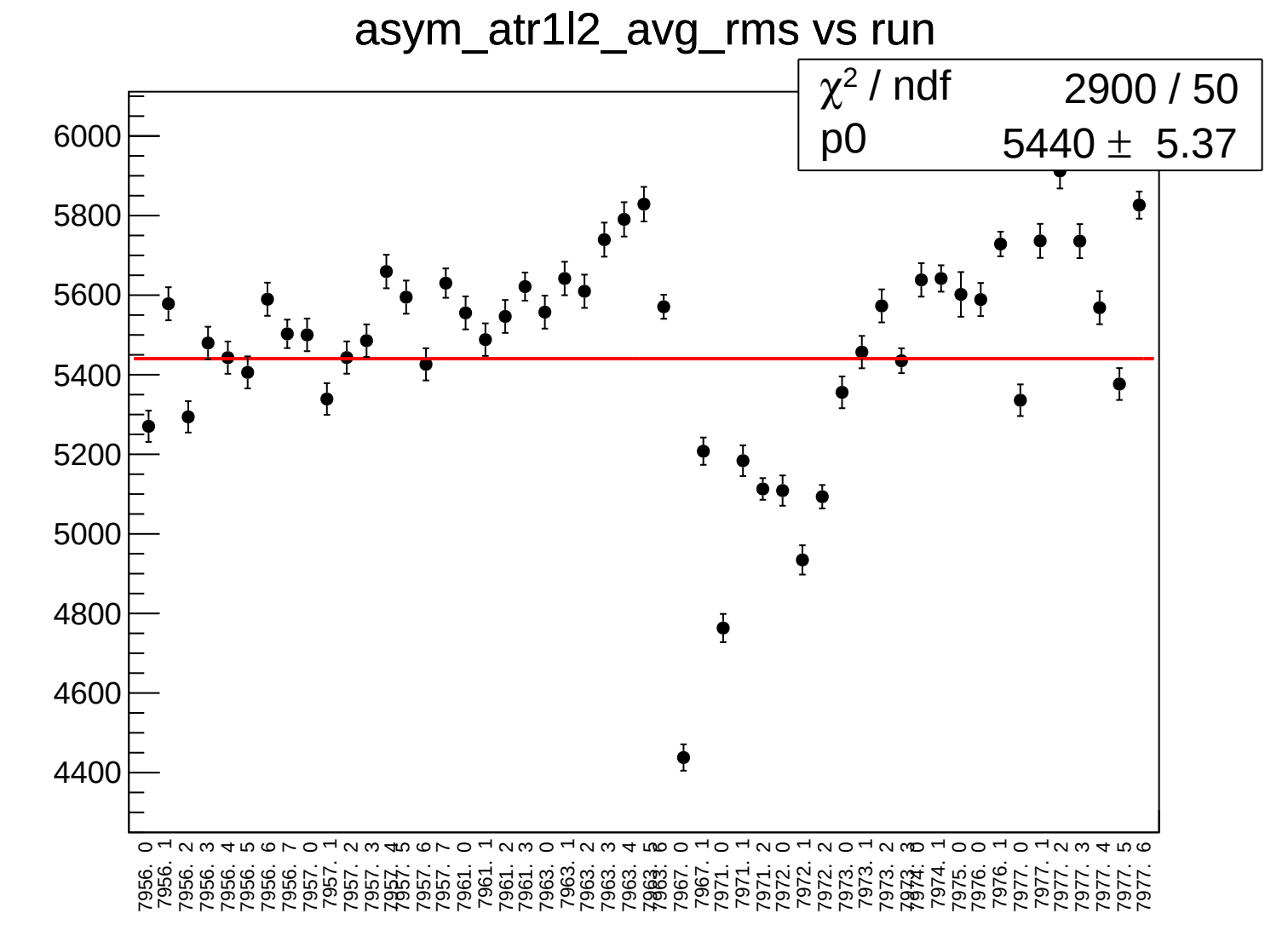
7977. 5
7977. 6


asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 40.22 / 50
p0 −1.051e+04 ± 7595
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 68.56
Std Dev 29.17
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.01736
Std Dev 0.8879
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1l2_avg_rms vs run
χ² / ndf 2900 / 50
p0 5440 ± 5.37
6000
5800
5600
5400
5200
5000
4800
4600
4400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
7977. 0
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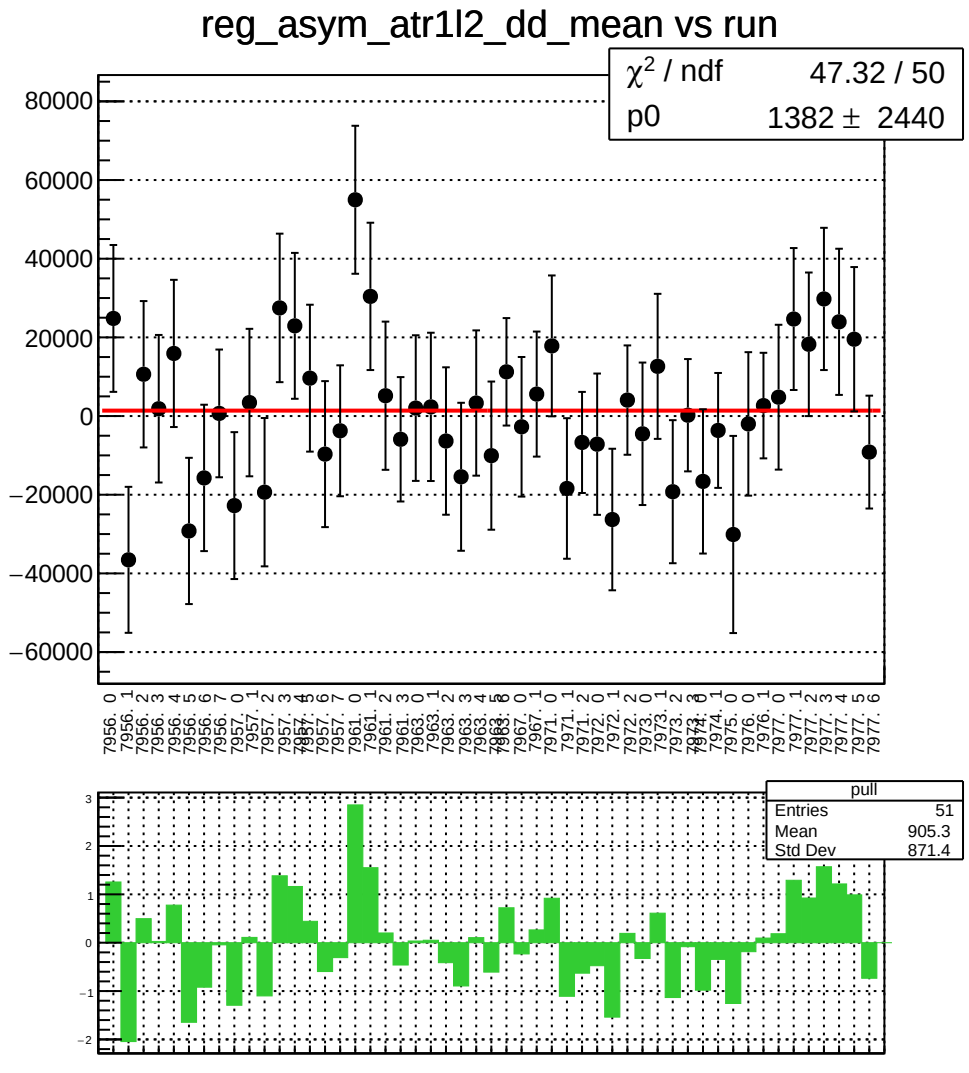
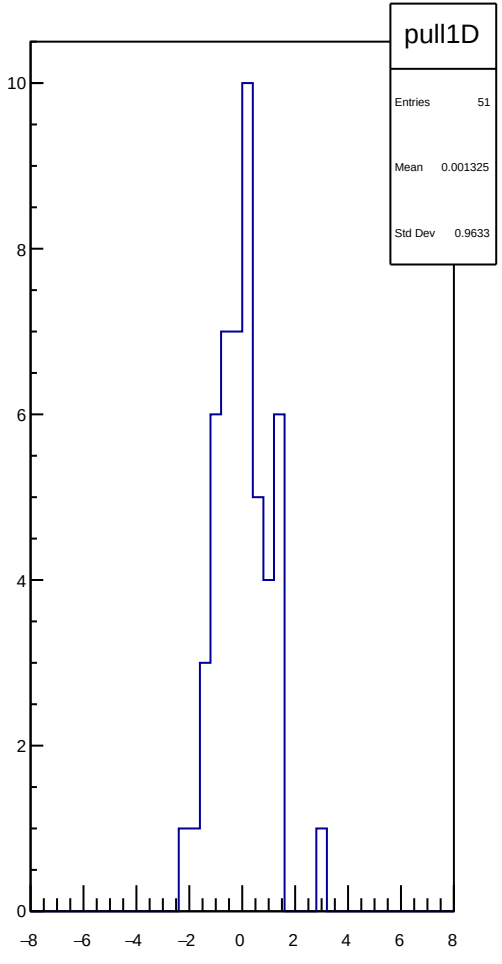
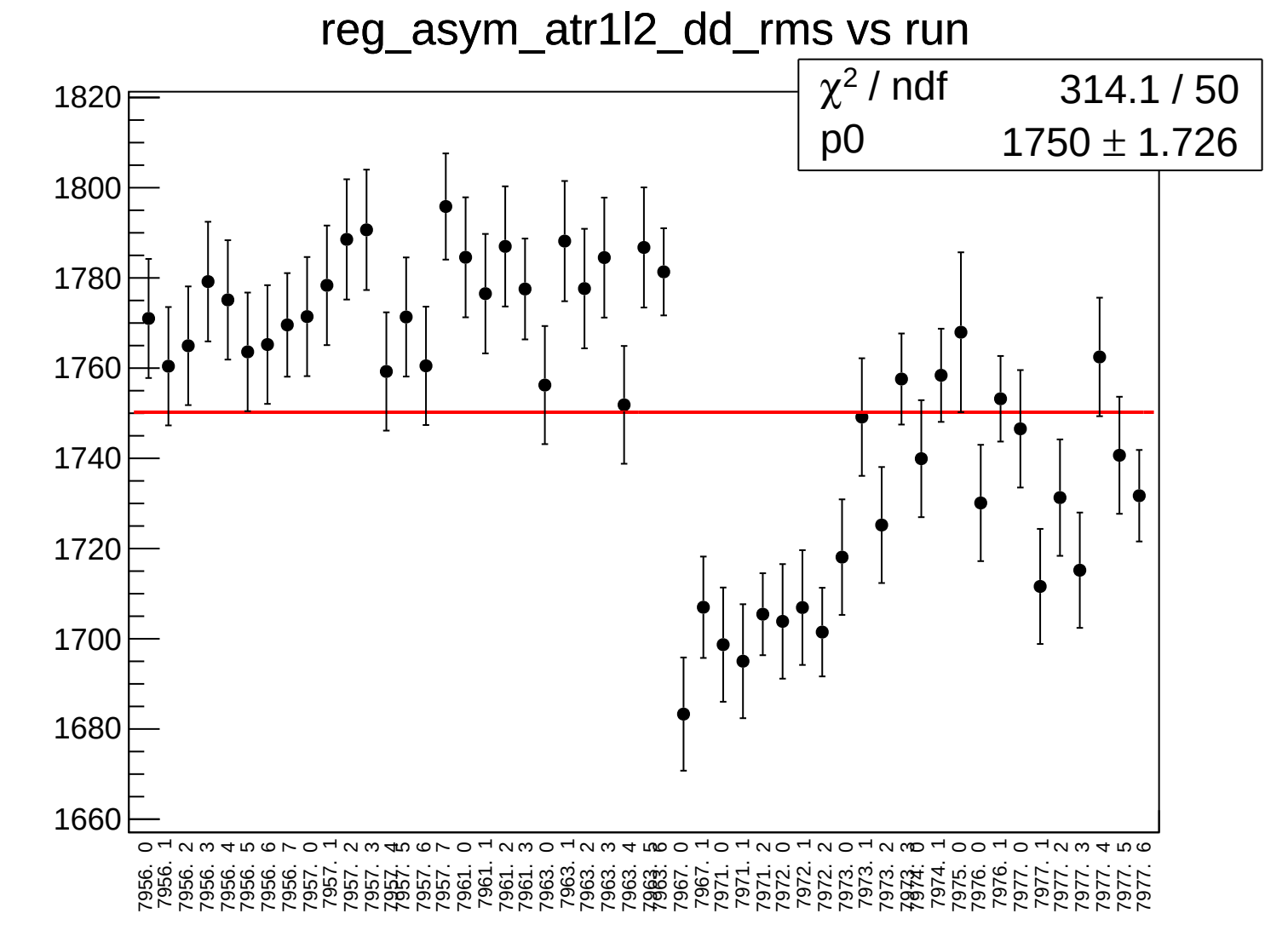
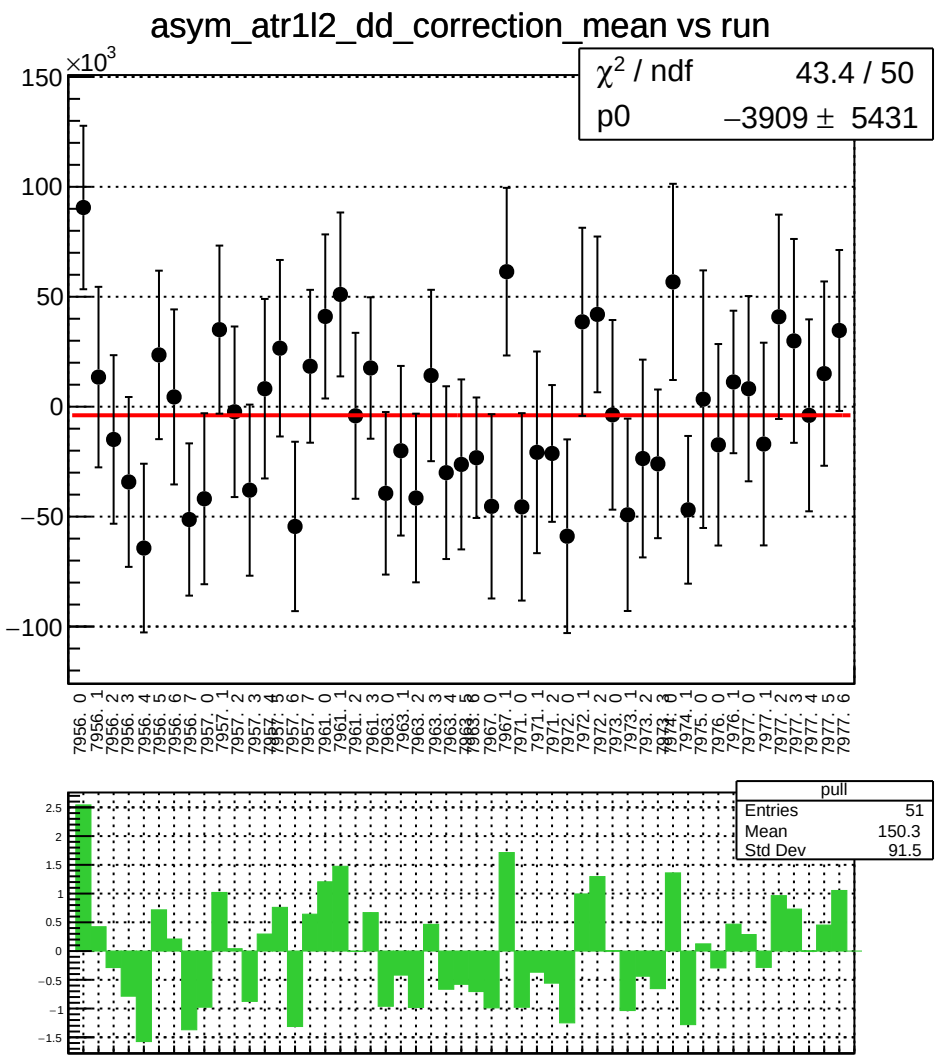
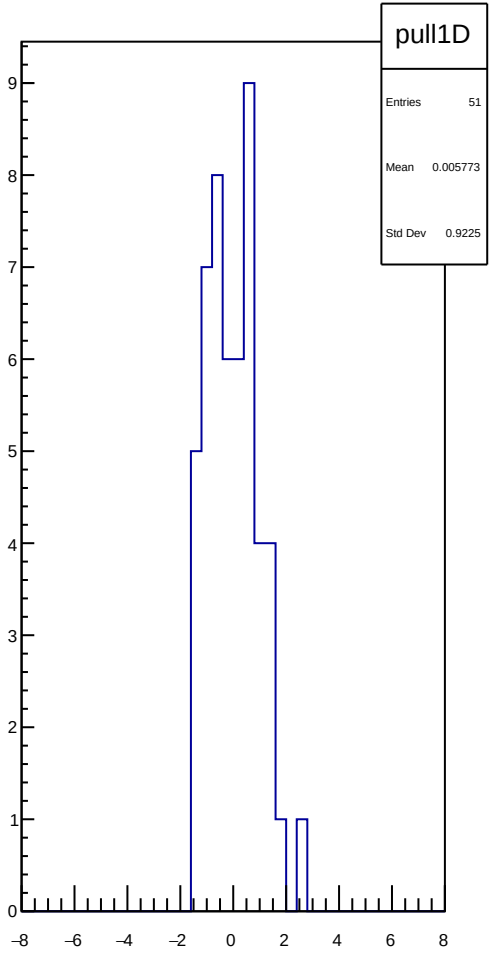
7977. 5
7977. 6

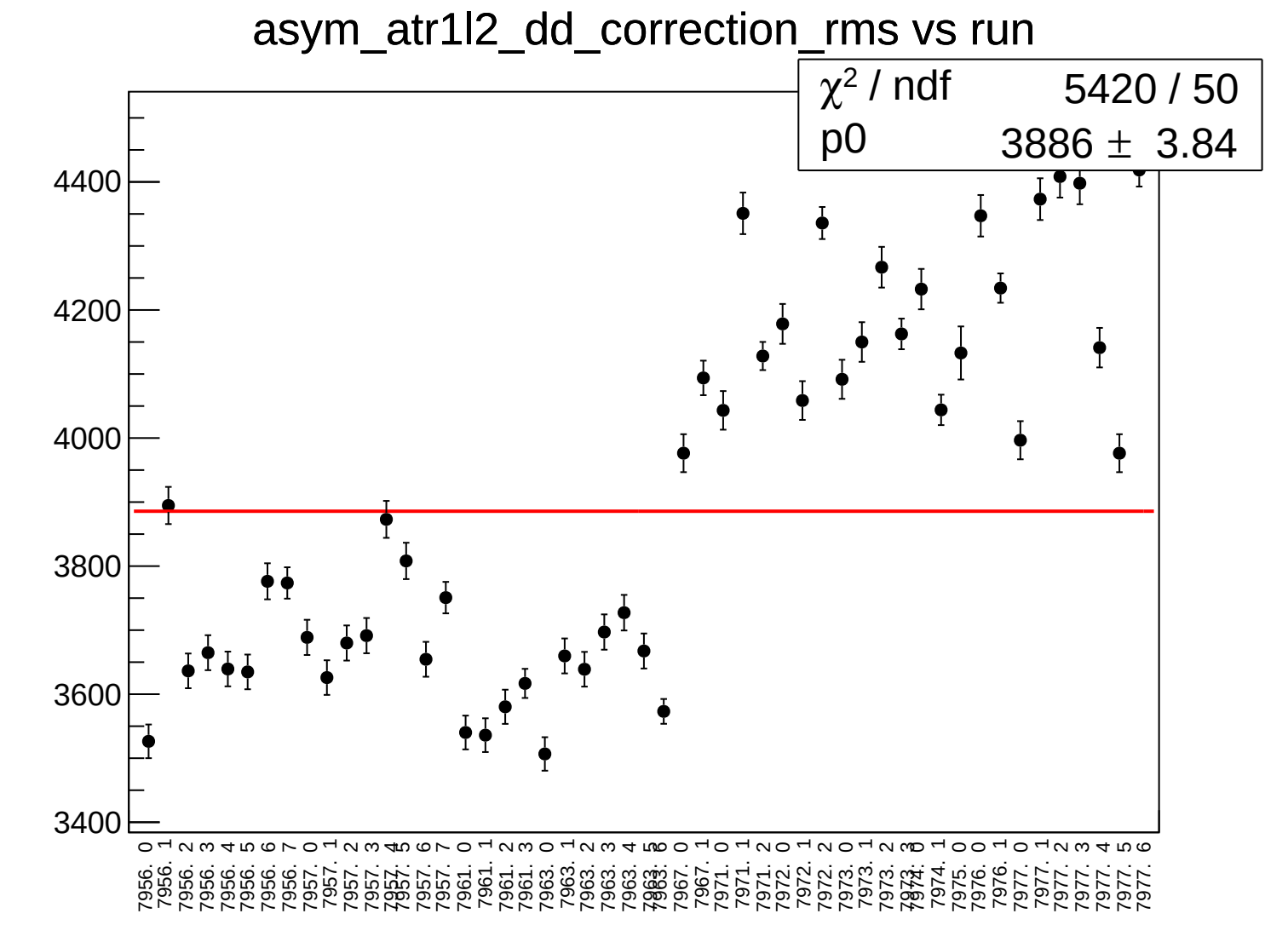

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 47.32 / 50
p0 1382 ± 2440
pull
Entries 51
Mean 905.3
Std Dev 871.4


pull1D
Entries 51
Mean 0.001325
Std Dev 0.9633


reg_asym_atr1l2_dd_rms vs run
χ² / ndf 314.1 / 50
p0 1750 ± 1.726
1820
1800
1780
1760
1740
1720
1700
1680
1660
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atr1l2_dd_correction_mean vs run
χ² / ndf 43.4 / 50
p0 −3909 ± 5431
×10³
pull
Entries 51
Mean 150.3
Std Dev 91.5


pull1D
Entries 51
Mean 0.005773
Std Dev 0.9225


asym_atr1l2_dd_correction_rms vs run
χ² / ndf 5420 / 50
p0 3886 ± 3.84
4400
4200
4000
3800
3600
3400
17956. 0
17956. 1
17956. 2
17956. 3
17956. 4
17956. 5
17956. 6
17956. 7
17957. 0
17957. 1
17957. 2
17957. 3
17957. 4
17957. 5
17957. 6
17957. 7
17961. 0
17961. 1
17961. 2
17961. 3
17963. 0
17963. 1
17963. 2
17963. 3
17963. 4
17967. 0
17967. 1
17971. 0
17971. 1
17971. 2
17972. 0
17972. 1
17972. 2
17973. 0
17973. 1
17973. 2
17974. 1
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17976. 1
17977. 0
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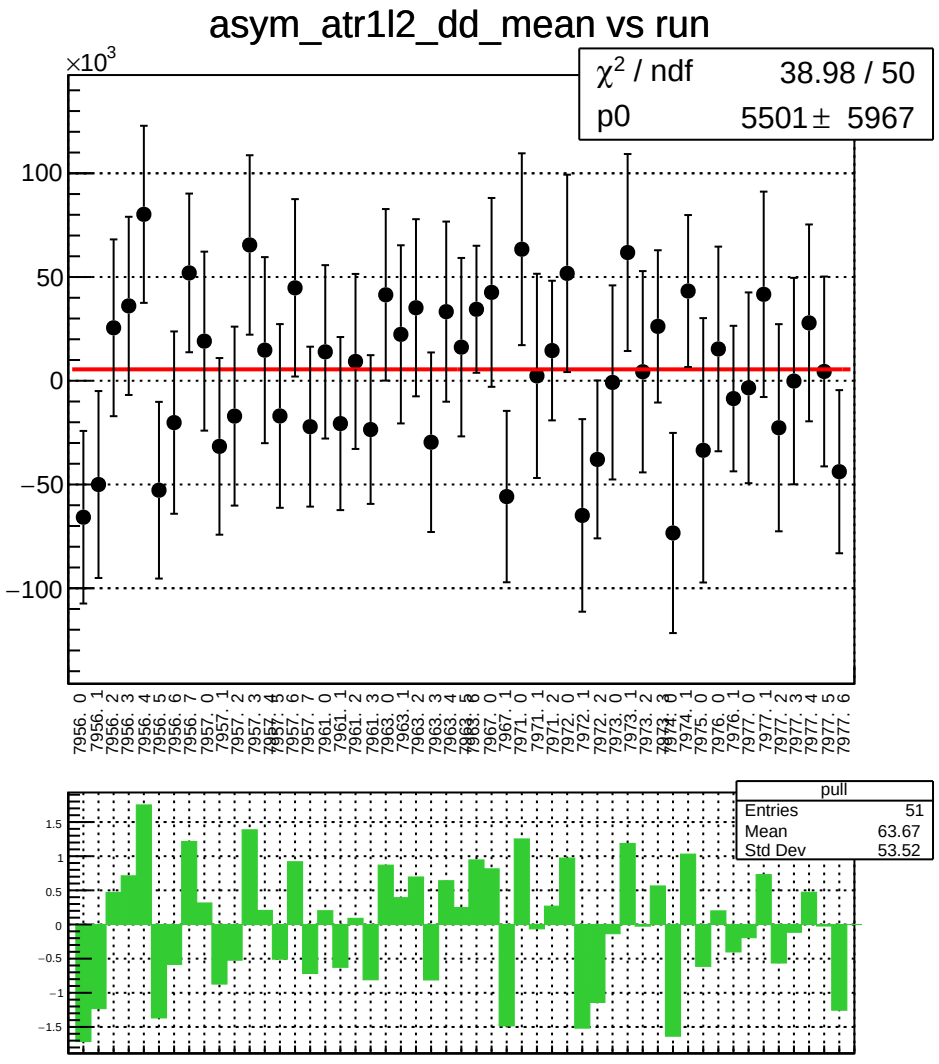
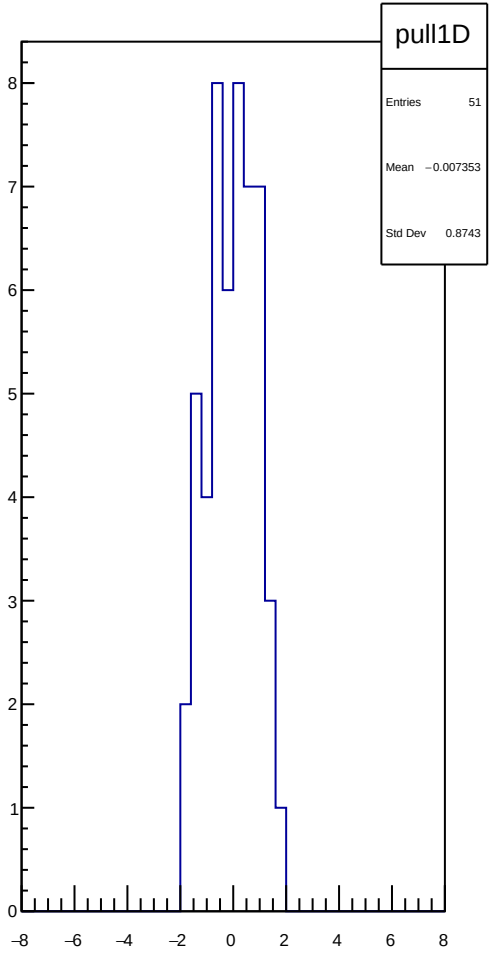
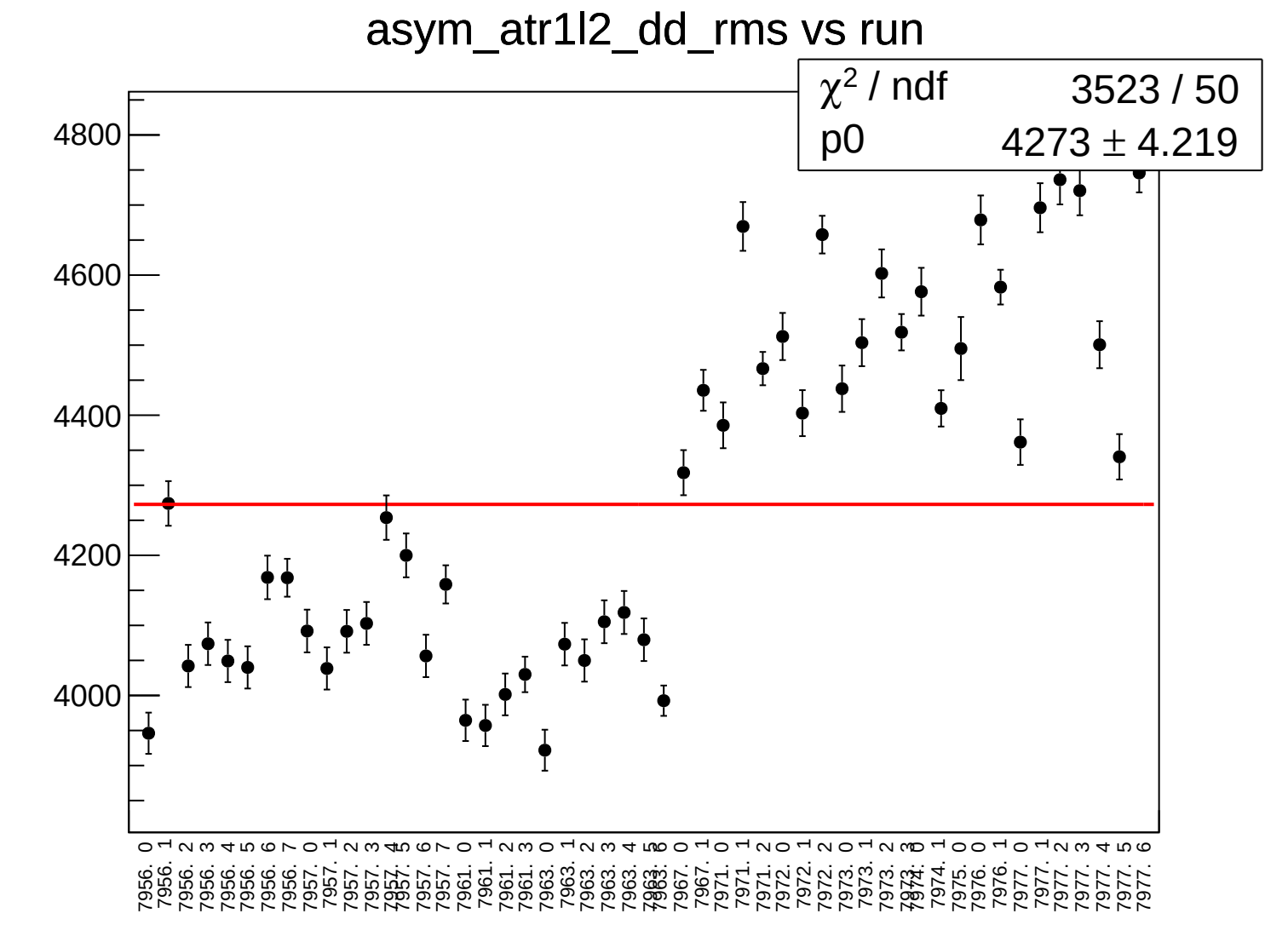
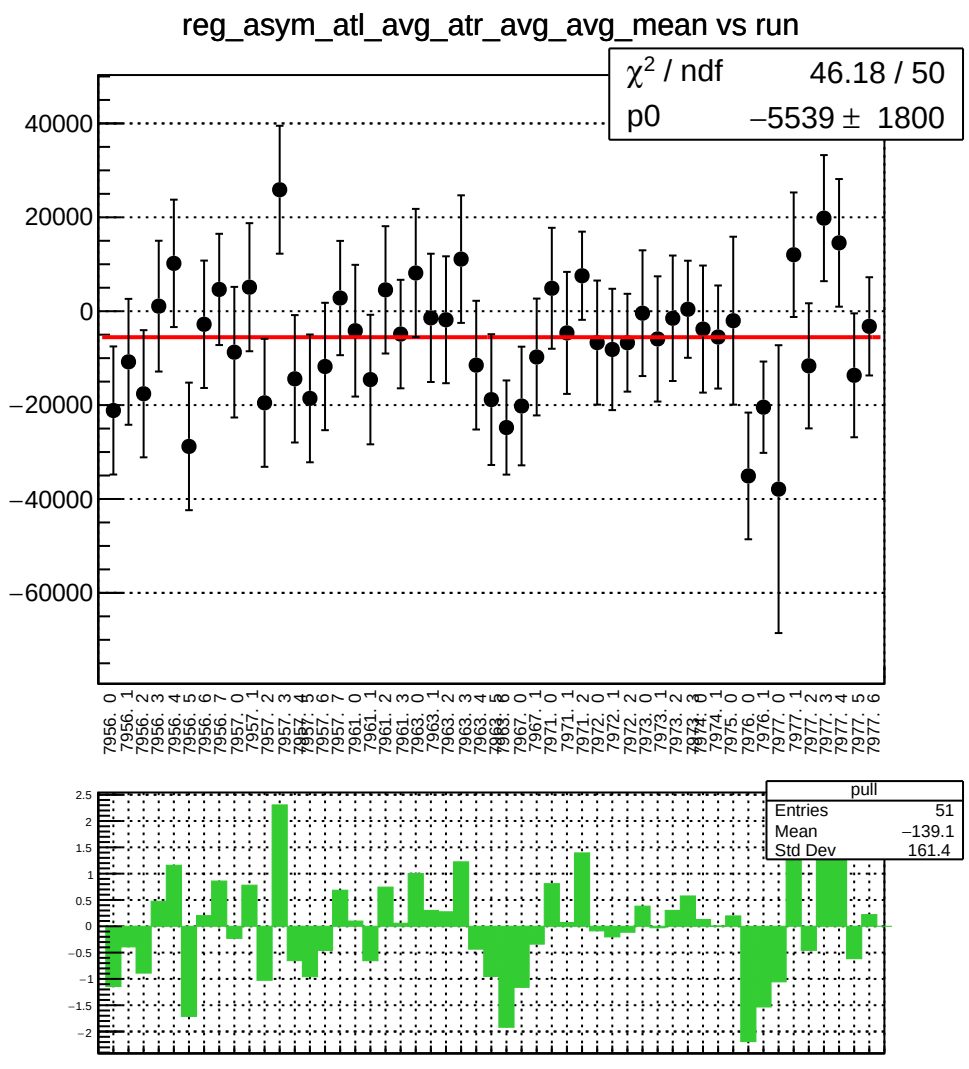
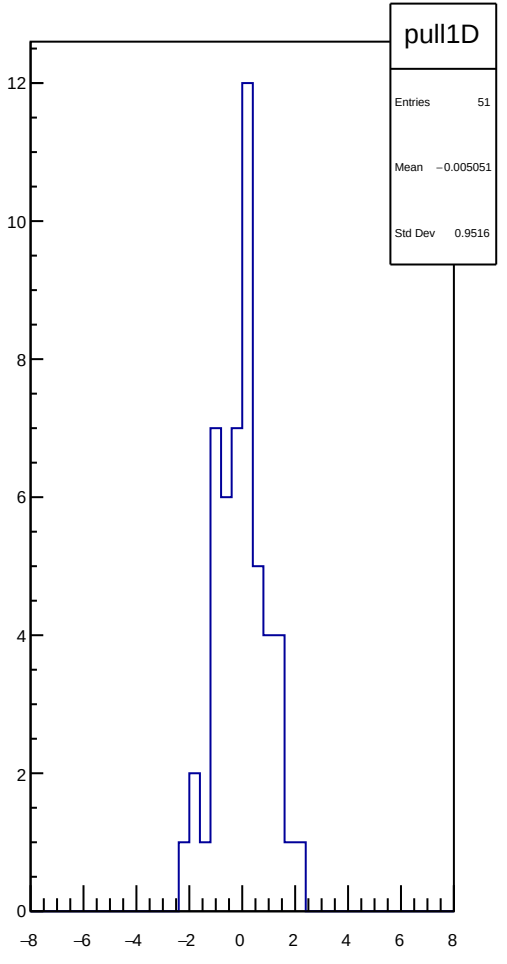
17977. 5
17977. 6

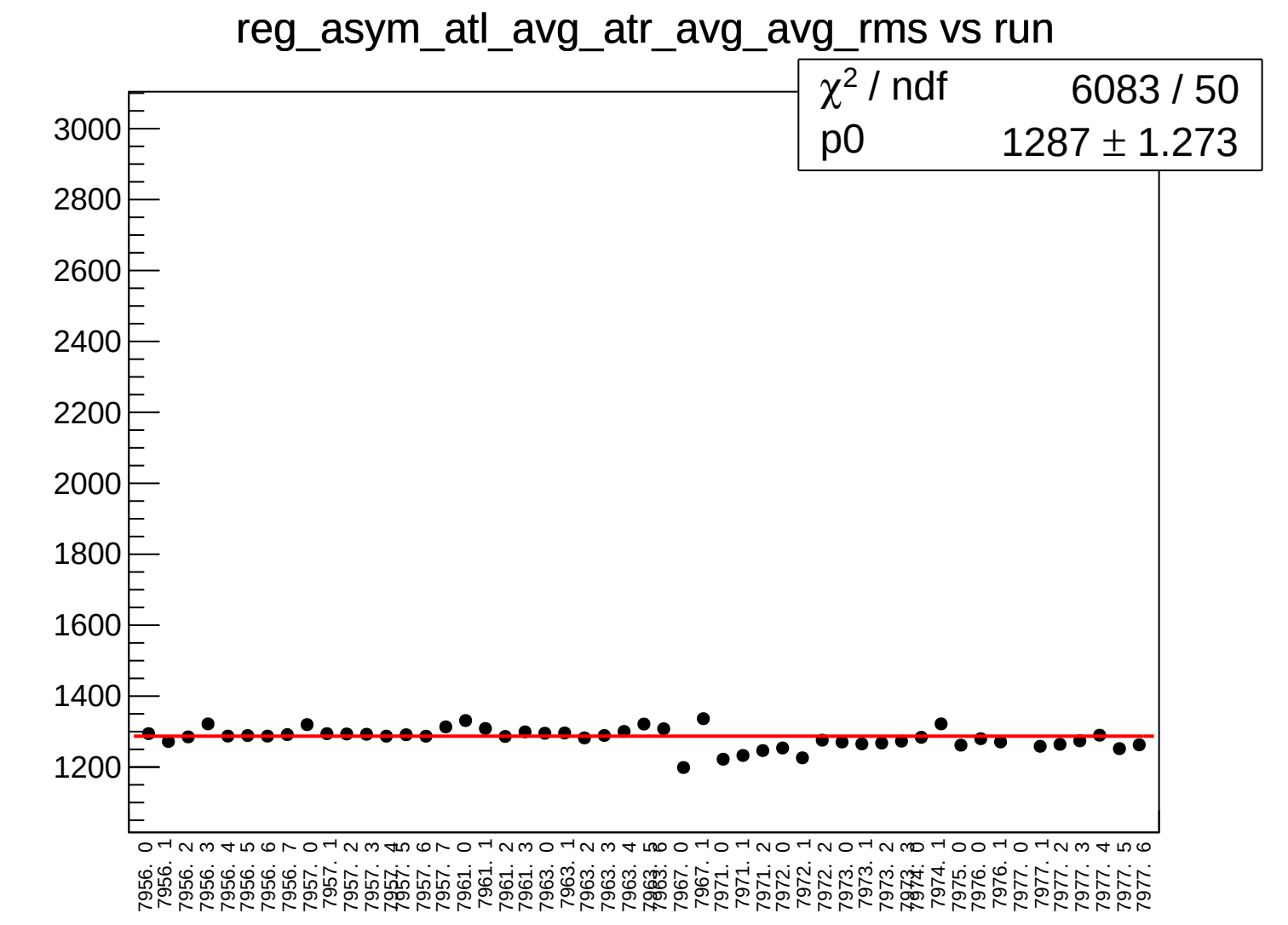

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 38.98 / 50
p0 5501 ± 5967
100
50
0
−50
−100
pull
Entries 51
Mean 63.67
Std Dev 53.52
1.5
1
0.5
0
−0.5
−1
−1.5

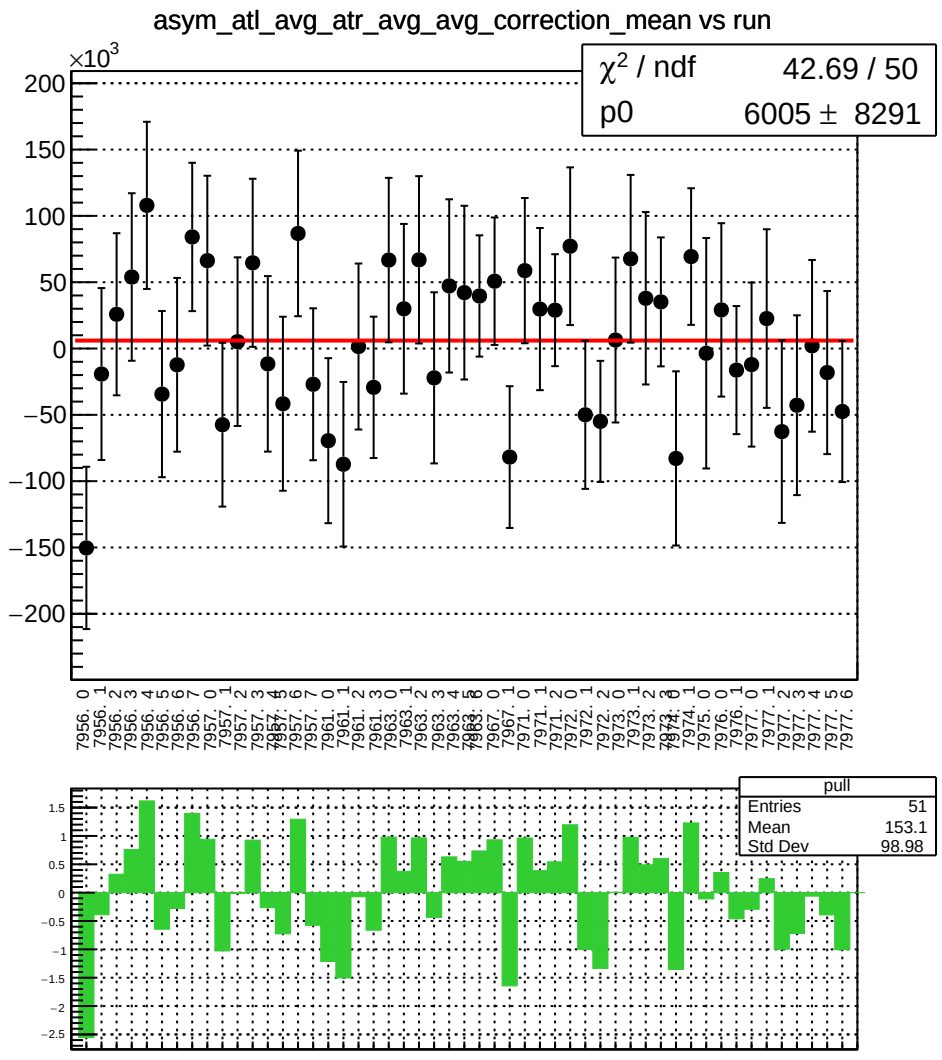

pull1D
Entries 51
Mean −0.007353
Std Dev 0.8743
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

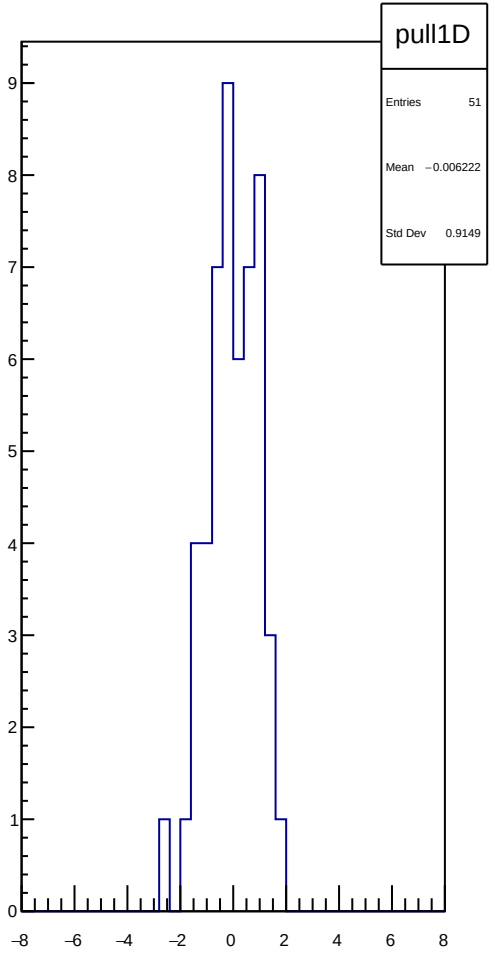

asym_atr1l2_dd_rms vs run
χ² / ndf 3523 / 50
p0 4273 ± 4.219
4800
4600
4400
4200
4000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

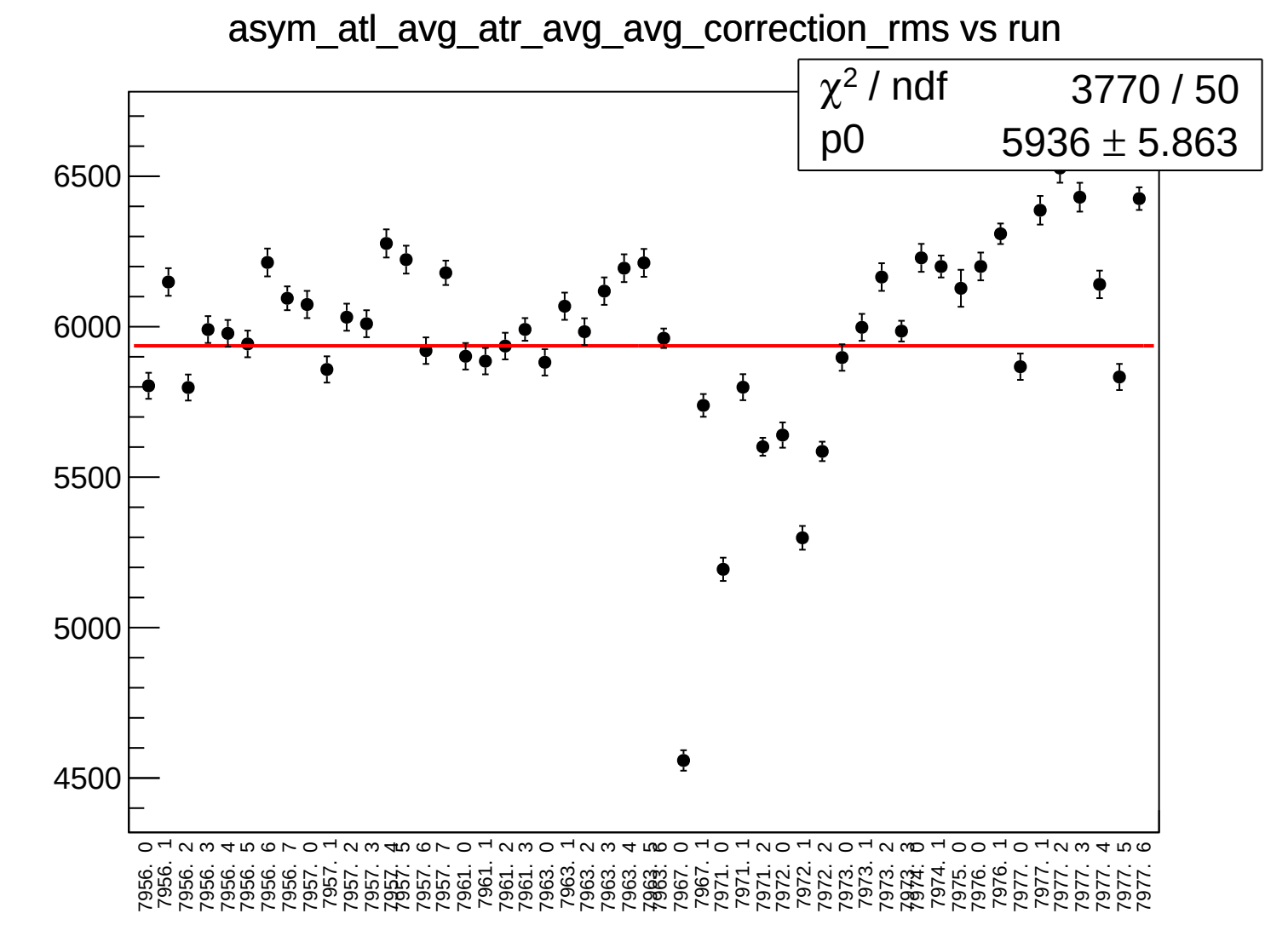

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 46.18 / 50
p0 −5539 ± 1800
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −139.1
Std Dev 161.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

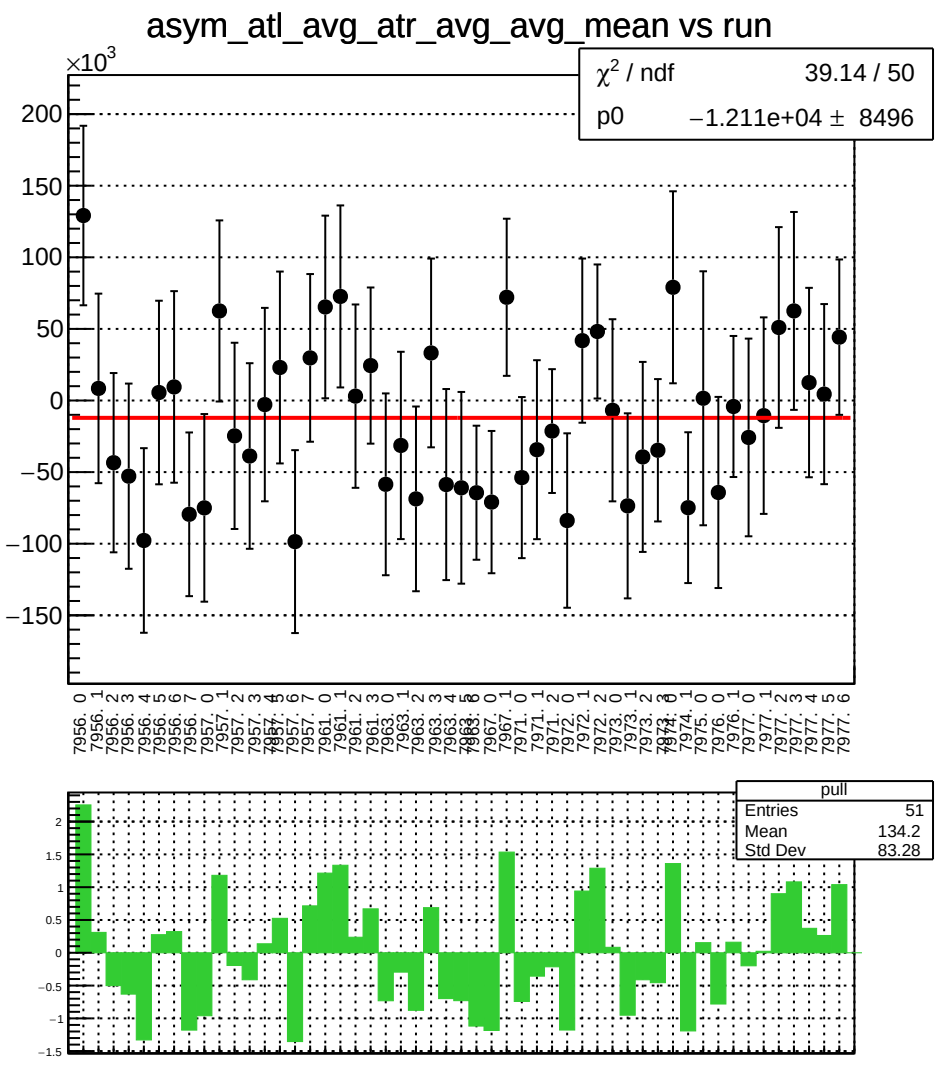

pull1D
Entries 51
Mean −0.005051
Std Dev 0.9516
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

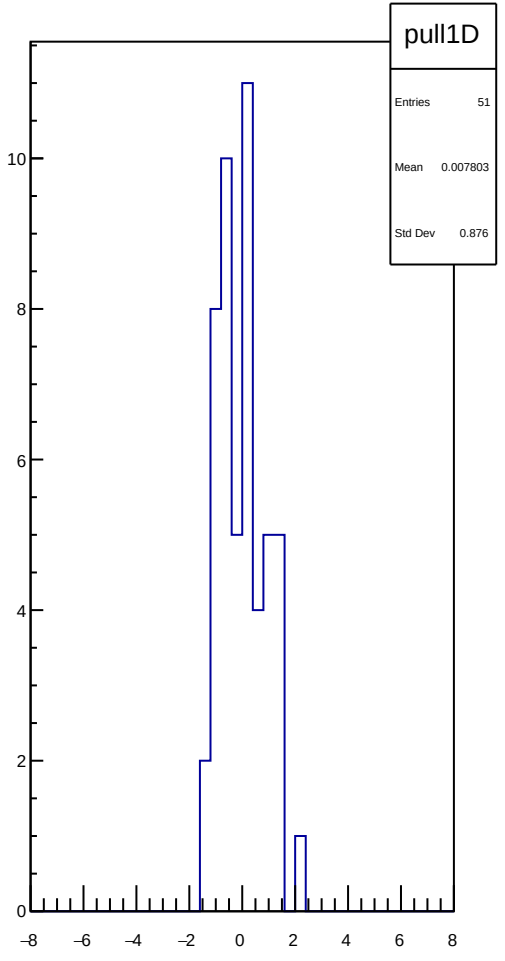

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 6083 / 50
p0 1287 ± 1.273
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

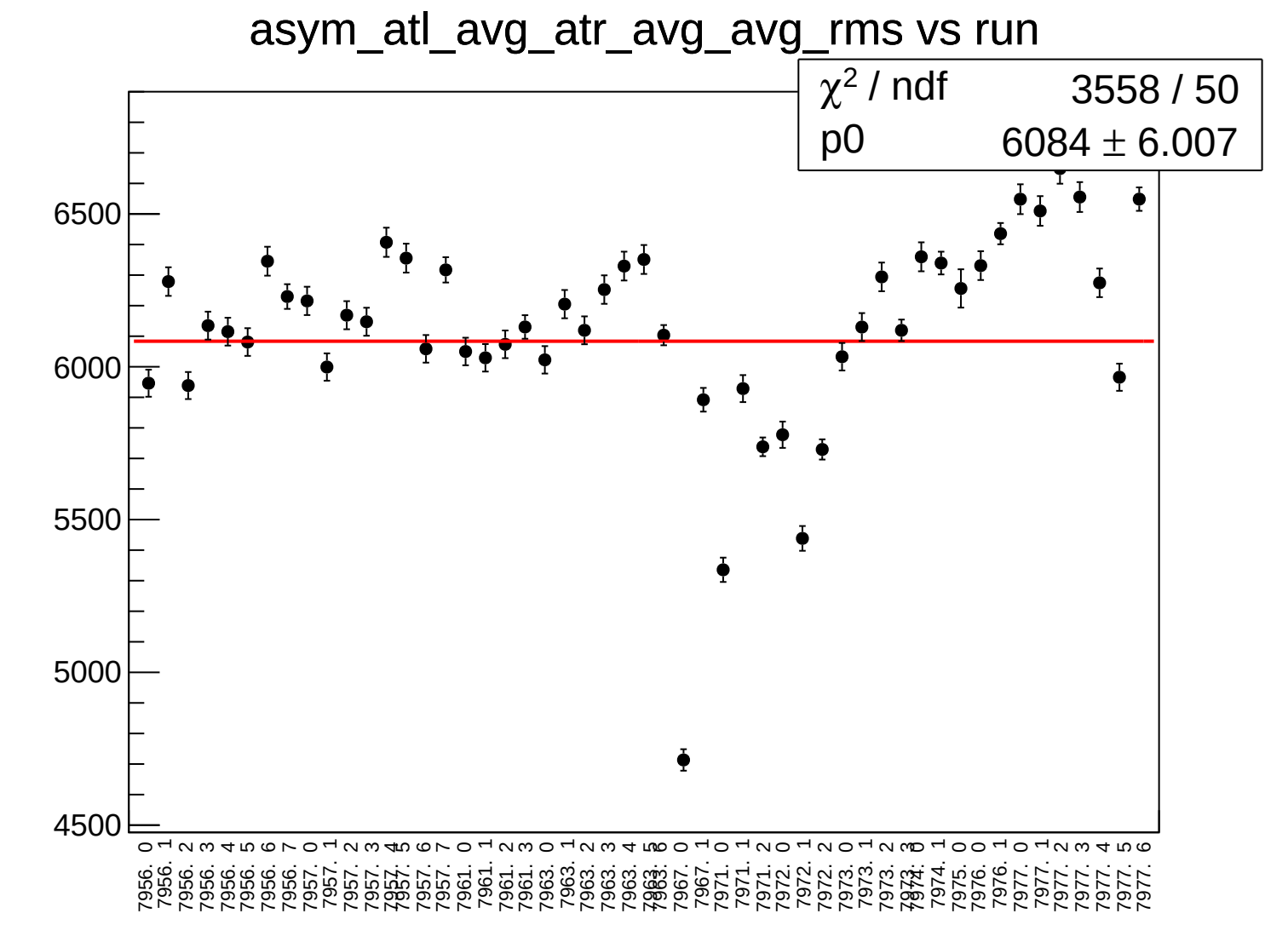

asym_atl_avg_atr_avg_avg_correction_mean vs run
×10^3
χ² / ndf 42.69 / 50
p0 6005 ± 8291
pull
Entries 51
Mean 153.1
Std Dev 98.98

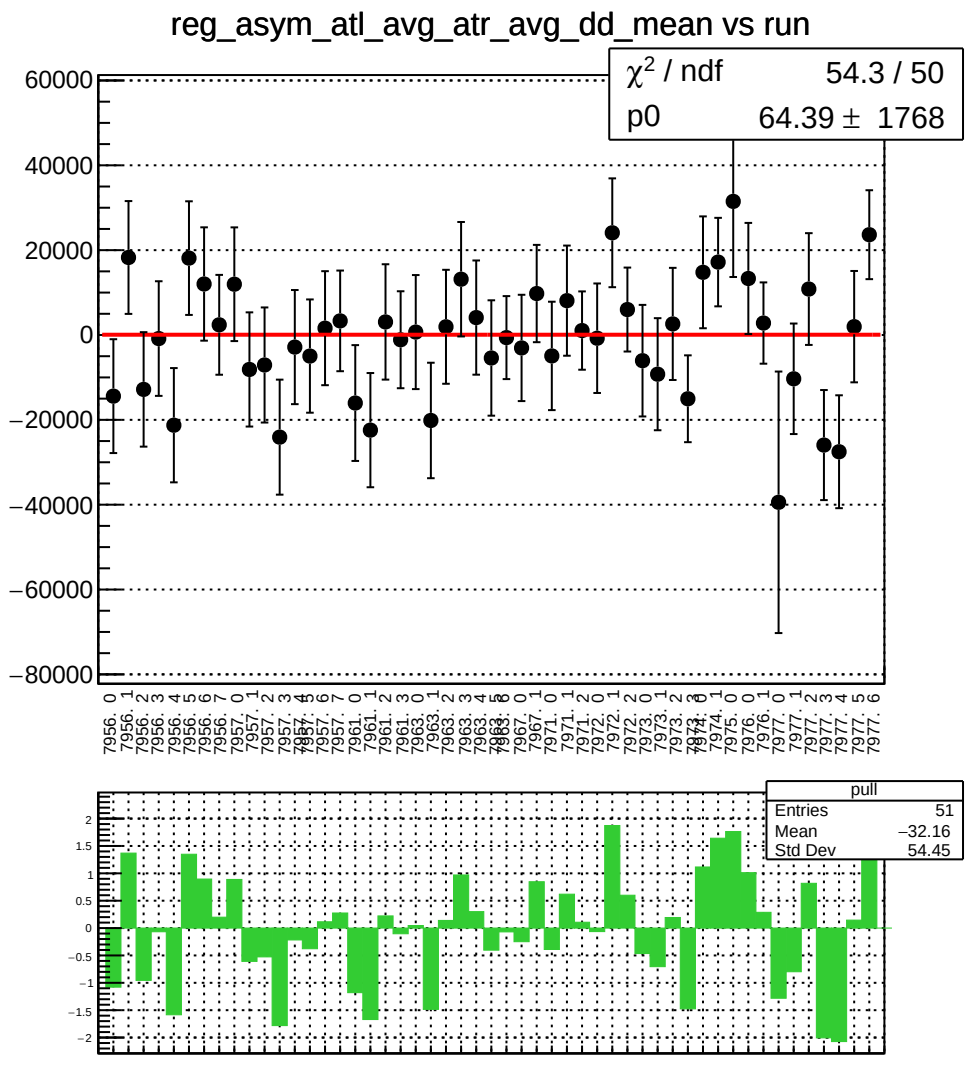

pull1D
Entries 51
Mean −0.006222
Std Dev 0.9149

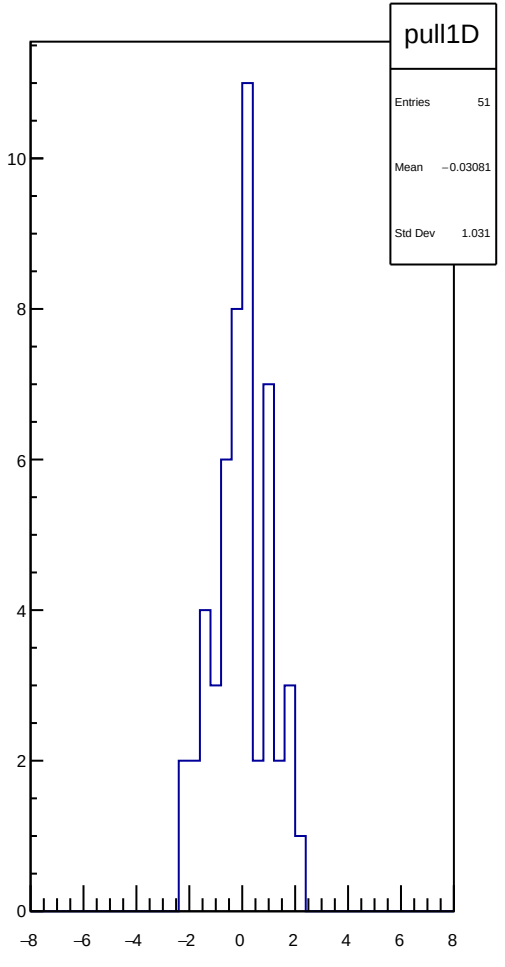

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 3770 / 50
p0 5936 ± 5.863
6500
6000
5500
5000
4500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

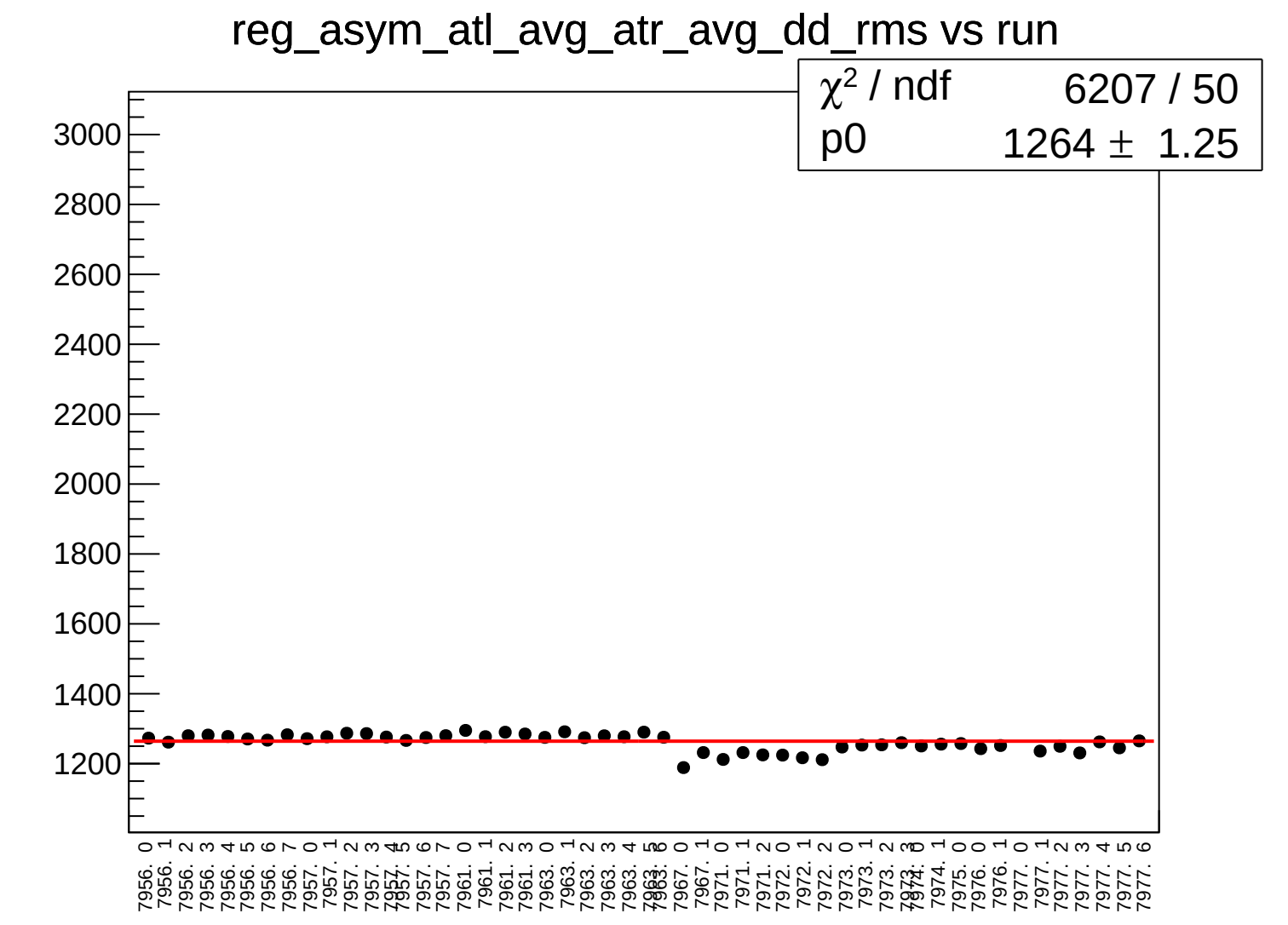

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 39.14 / 50
p0 −1.211e+04 ± 8496
pull
Entries 51
Mean 134.2
Std Dev 83.28


pull1D
Entries 51
Mean 0.007803
Std Dev 0.876


asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3558 / 50
p0 6084 ± 6.007
6500
6000
5500
5000
4500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 54.3 / 50
p0 64.39 ± 1768
pull
Entries 51
Mean −32.16
Std Dev 54.45


pull1D
Entries 51
Mean −0.03081
Std Dev 1.031


reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 6207 / 50
p0 1264 ± 1.25
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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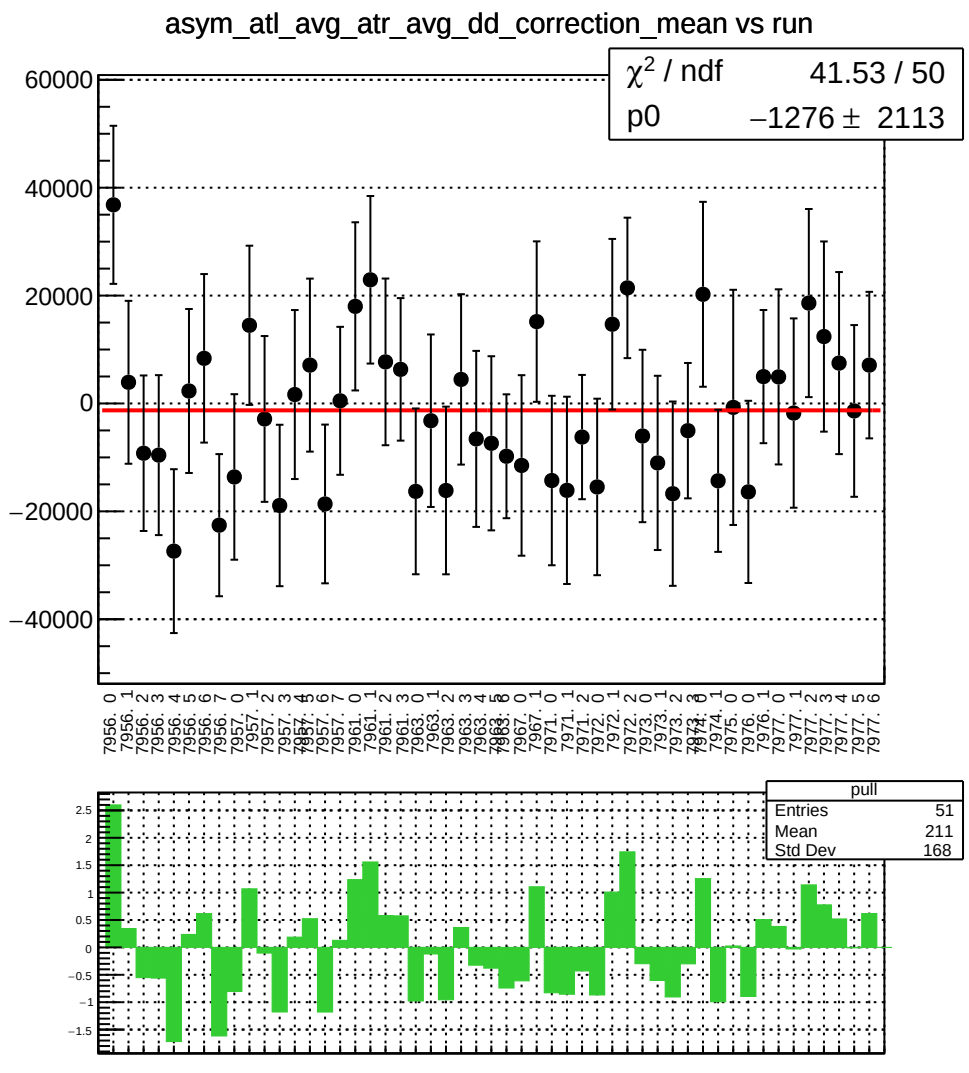
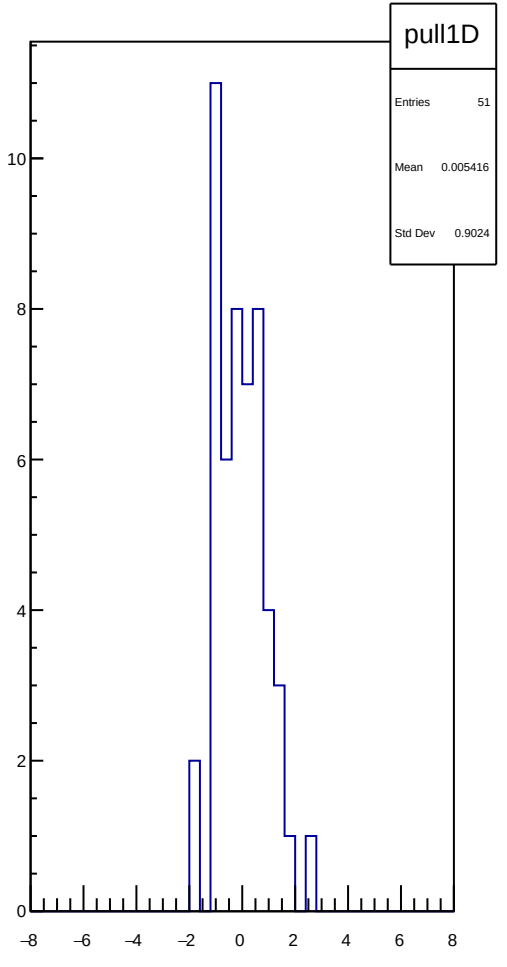
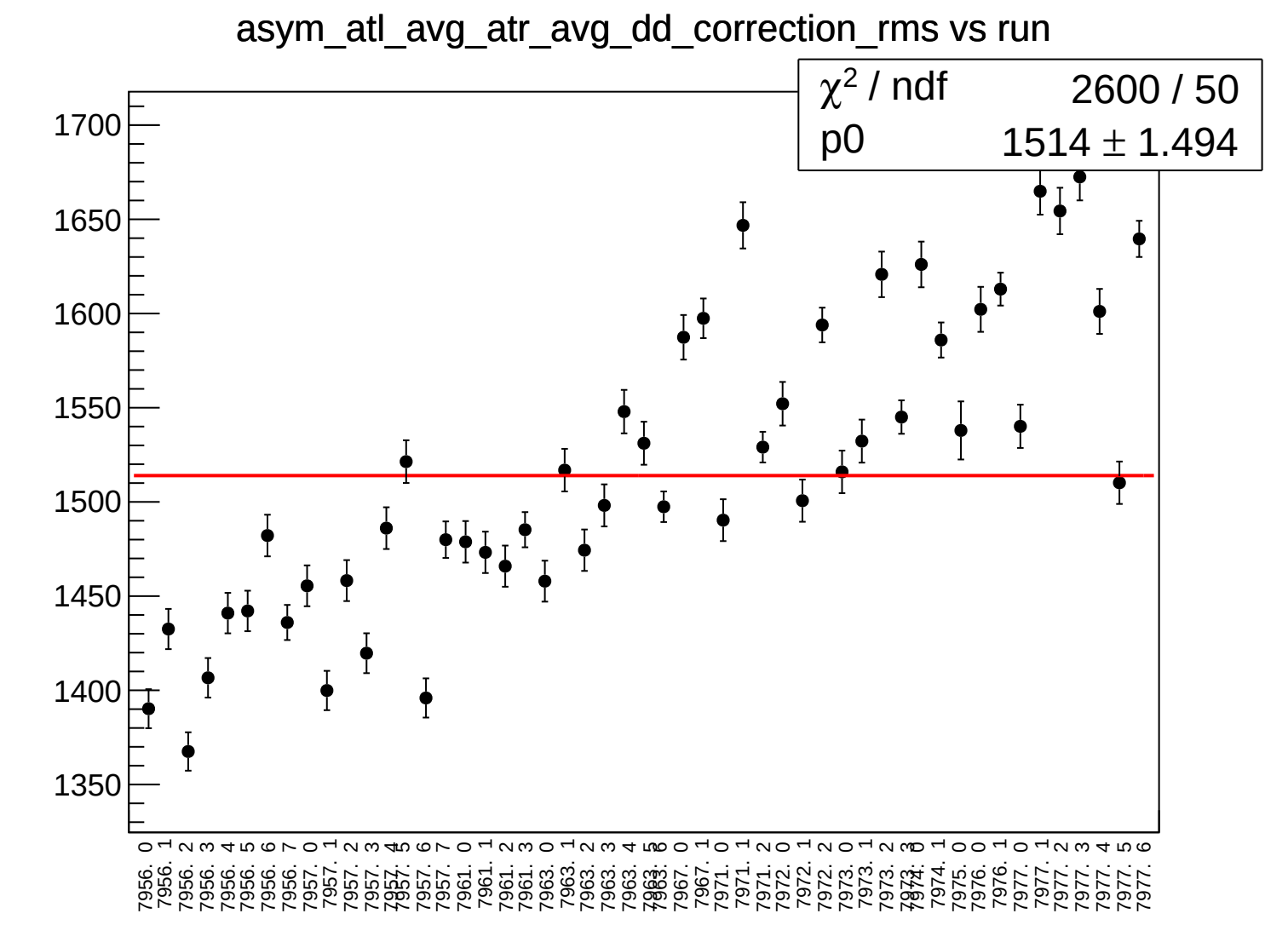
7977. 5
7977. 6


asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 41.53 / 50
p0 −1276 ± 2113
pull
Entries 51
Mean 211
Std Dev 168


pull1D
Entries 51
Mean 0.005416
Std Dev 0.9024


asym_atl_avg_atr_avg_dd_correction_rms vs run
χ^2 / ndf 2600 / 50
p0 1514 ± 1.494
1700
1650
1600
1550
1500
1450
1400
1350
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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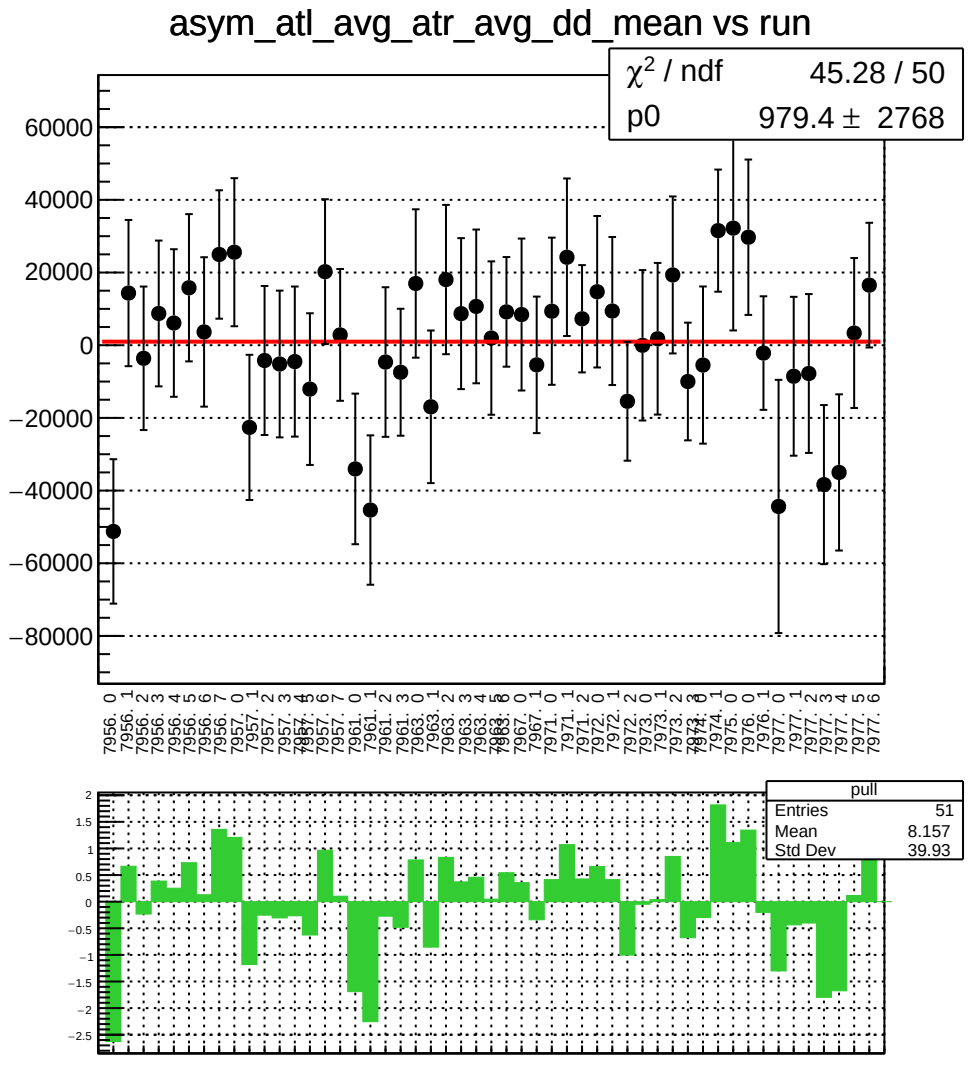
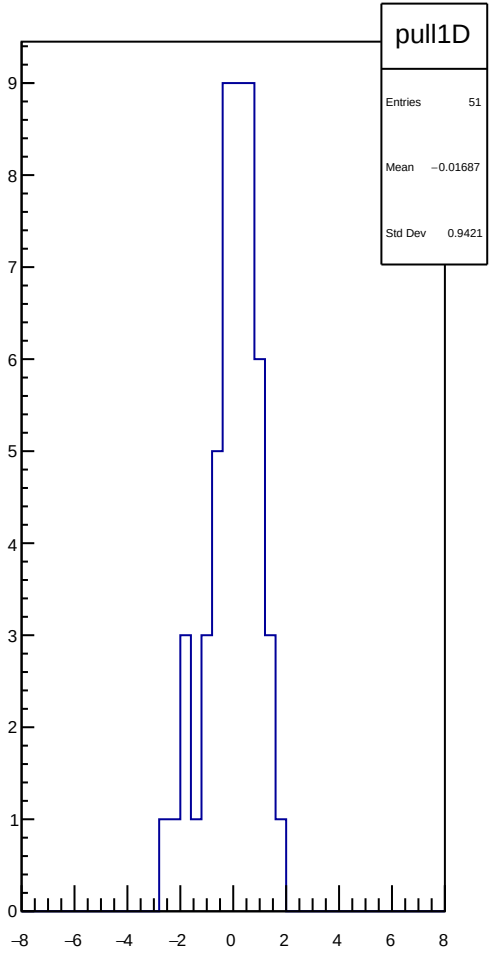
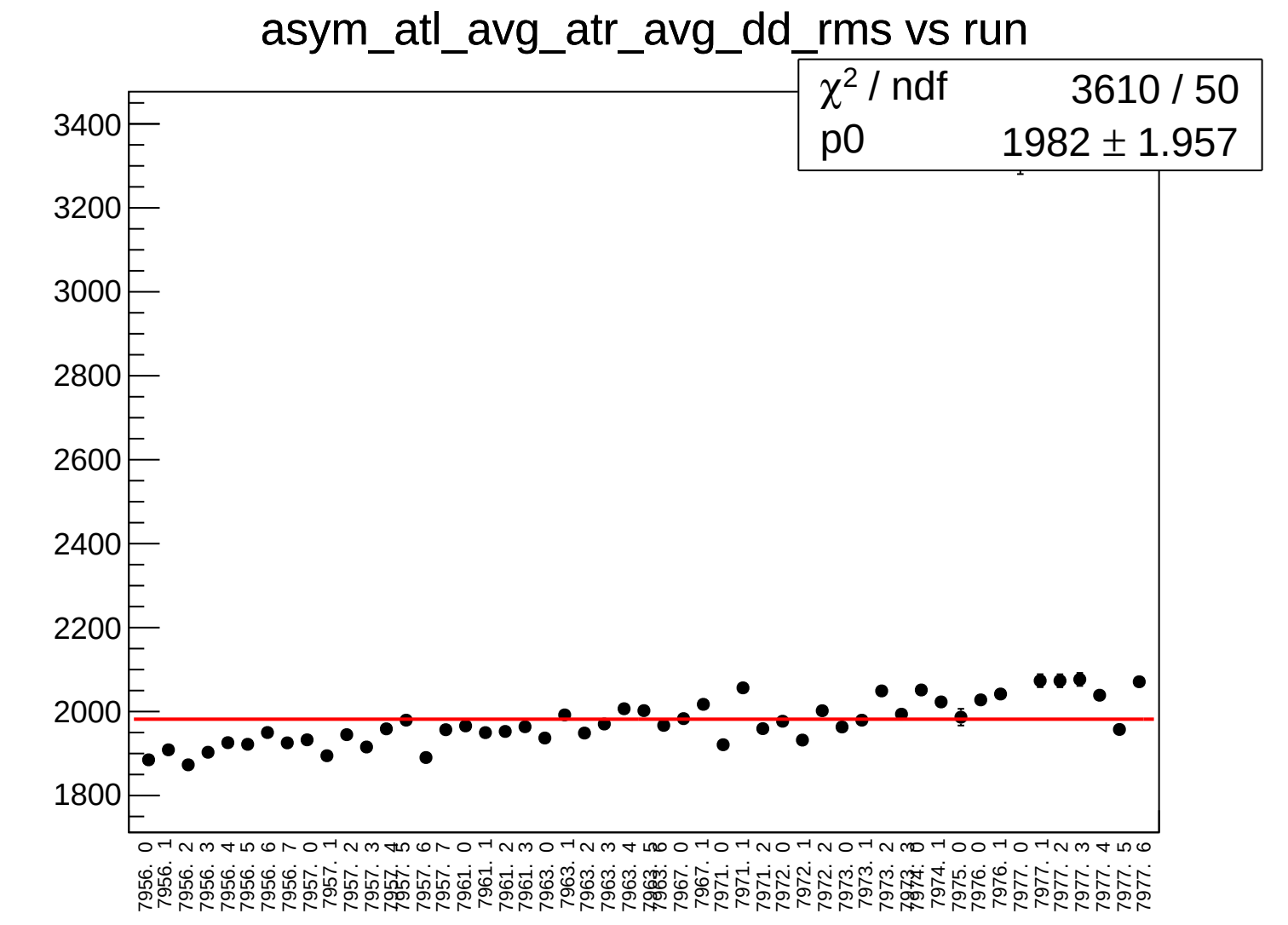
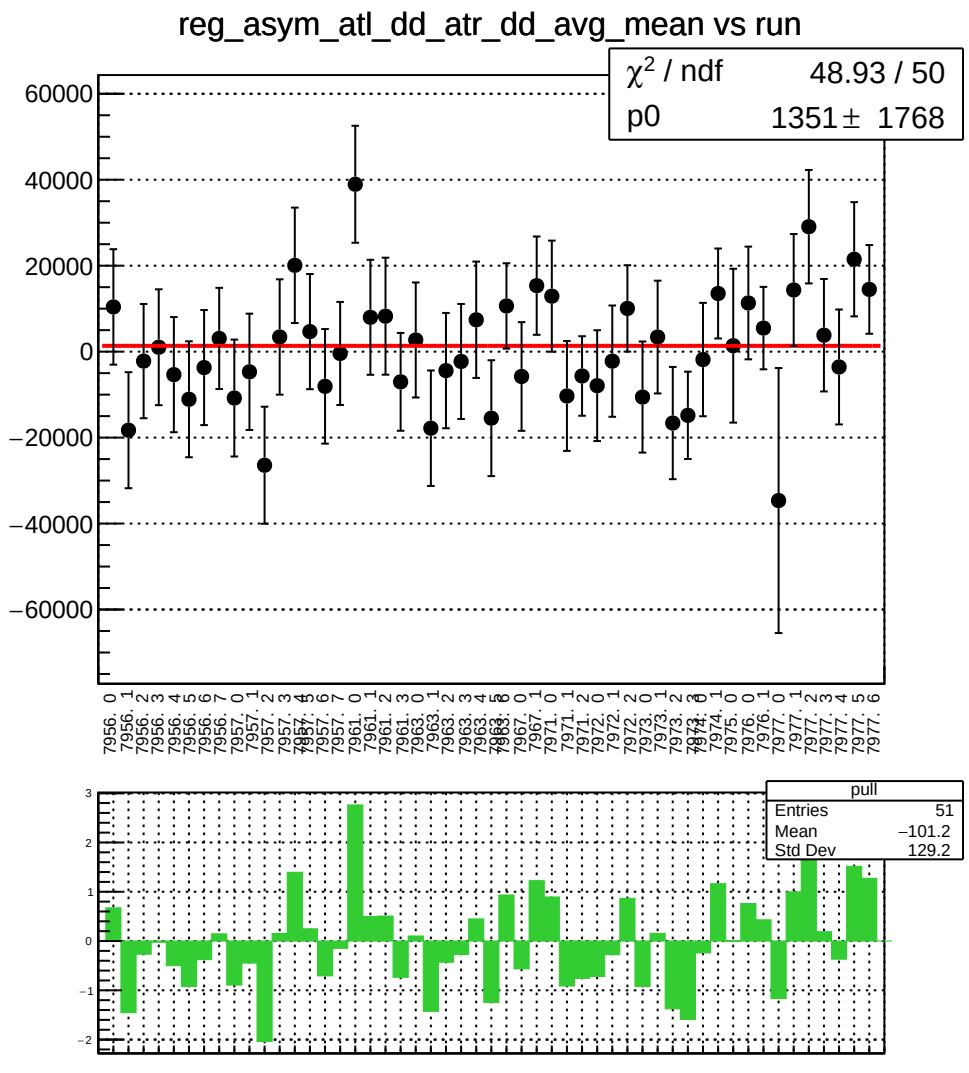
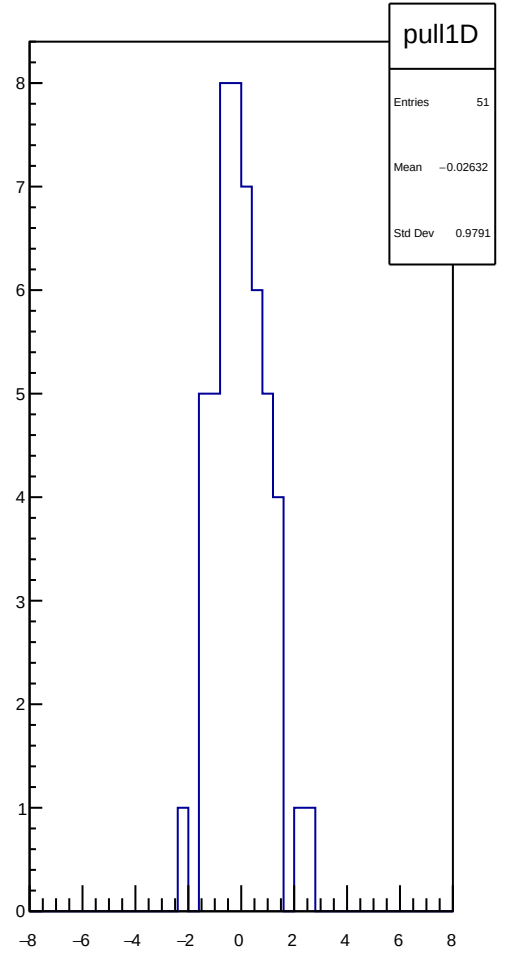
7977. 3
7977. 4
7977. 5
7977. 6

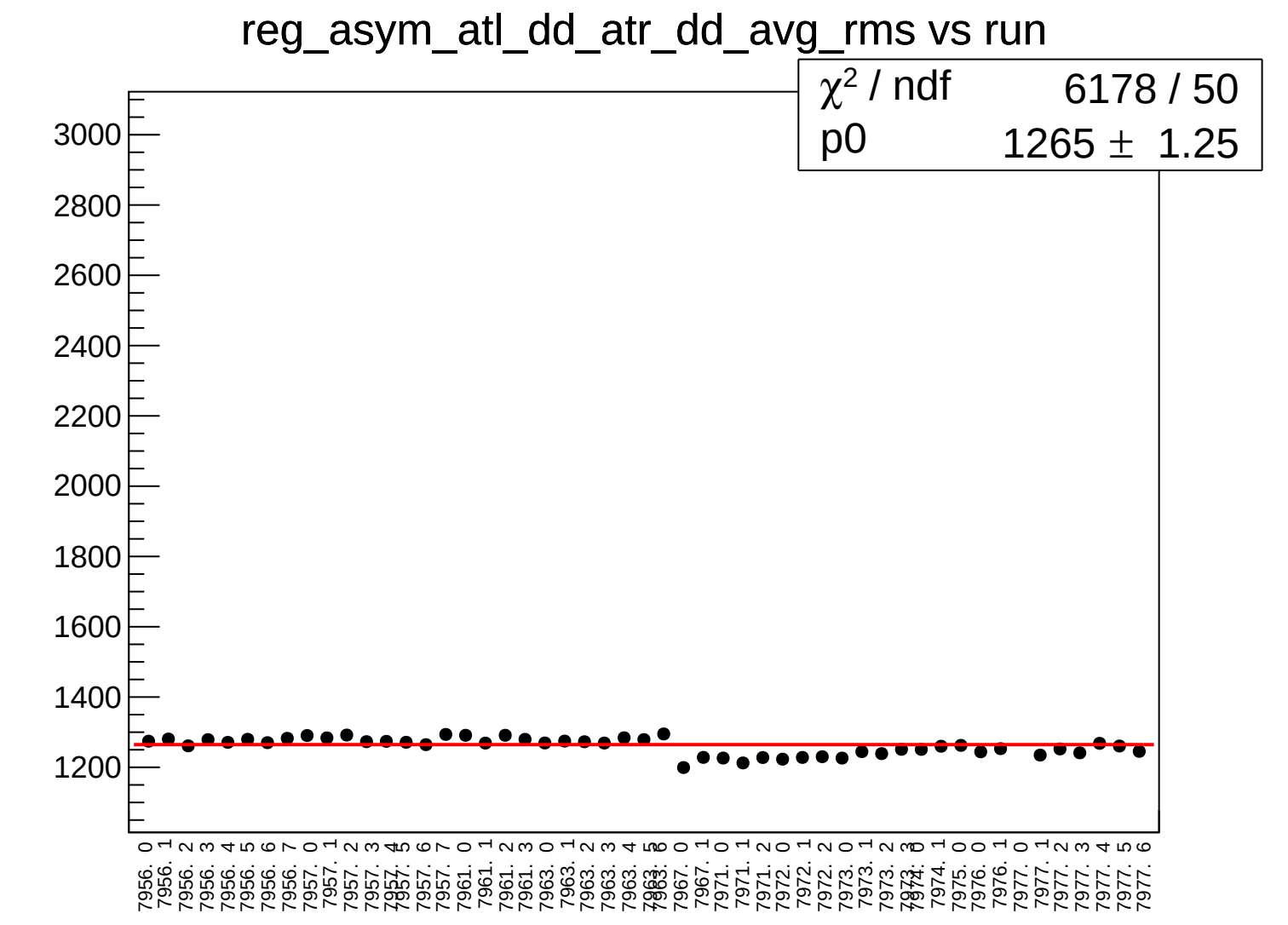

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 45.28 / 50
p0 979.4 ± 2768
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 8.157
Std Dev 39.93
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

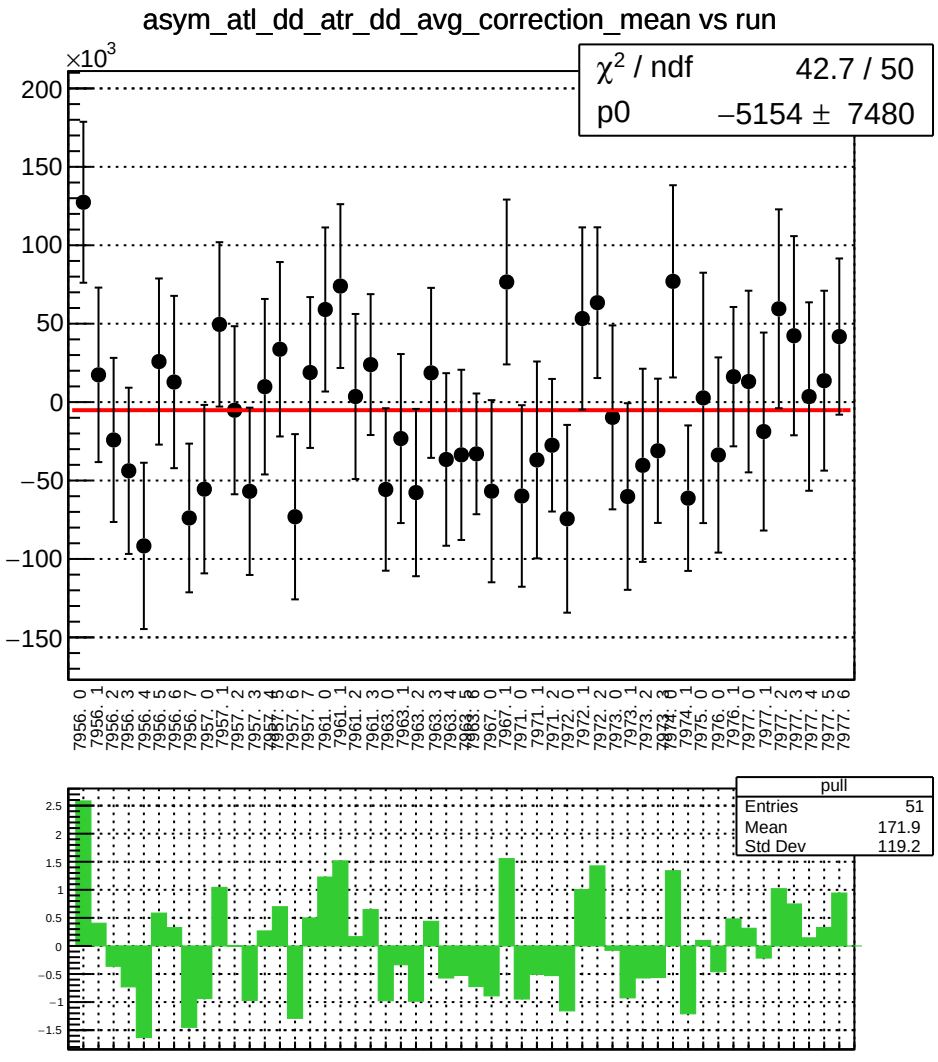

pull1D
Entries 51
Mean −0.01687
Std Dev 0.9421
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

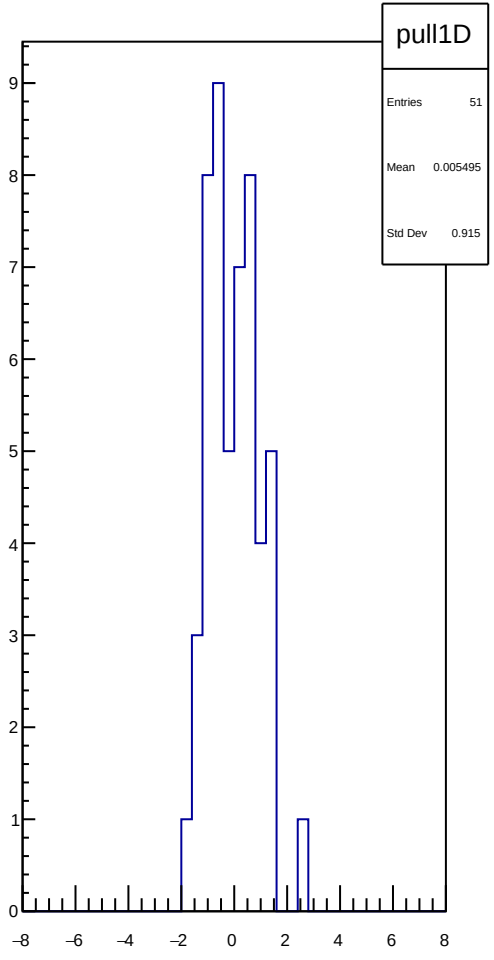

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 3610 / 50
p0 1982 ± 1.957
3400
3200
3000
2800
2600
2400
2200
2000
1800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

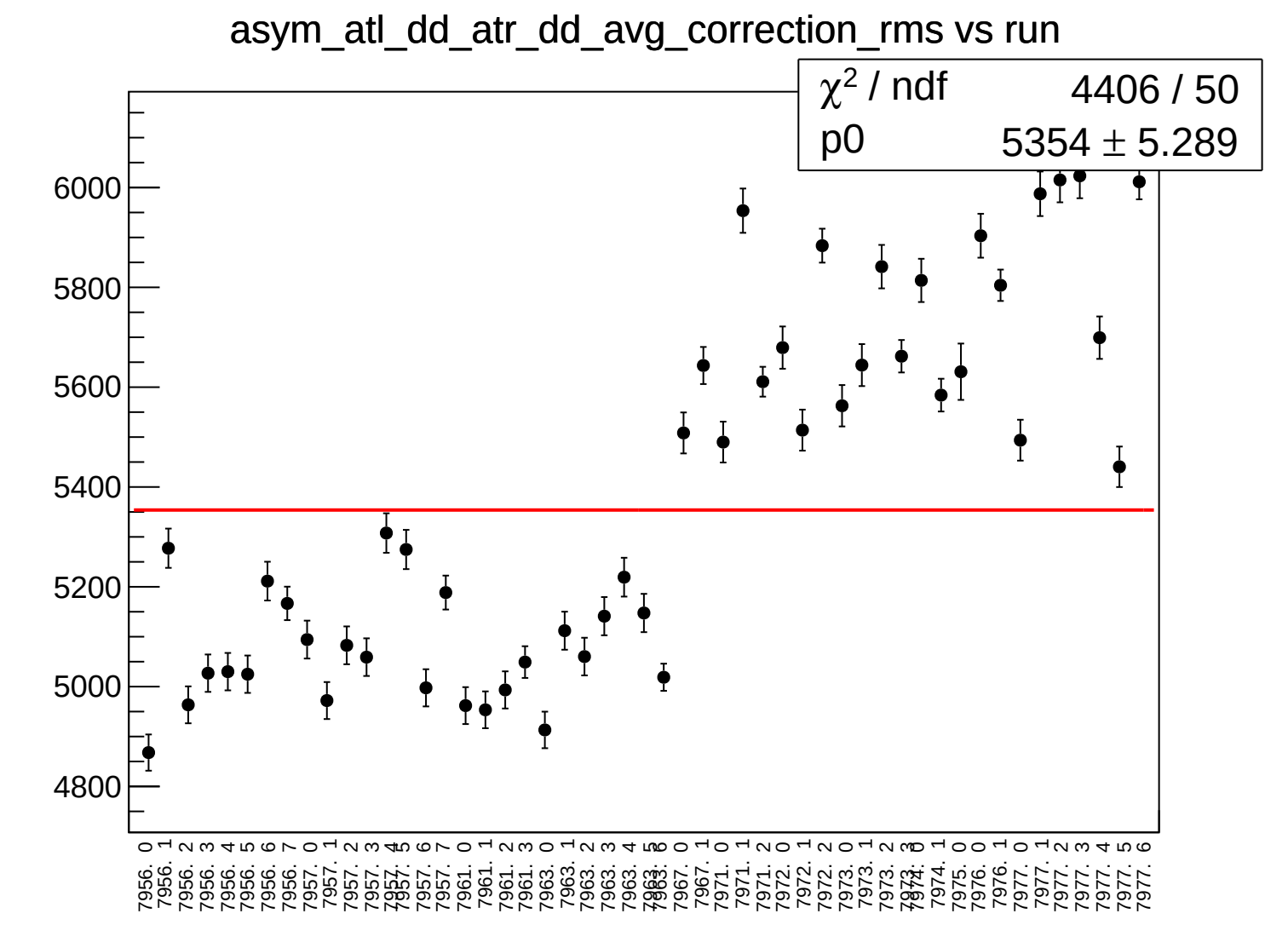

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 48.93 / 50
p0 1351 ± 1768
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −101.2
Std Dev 129.2
3
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.02632
Std Dev 0.9791
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 6178 / 50
p0 1265 ± 1.25
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ² / ndf 42.7 / 50
p0 −5154 ± 7480
200
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean 171.9
Std Dev 119.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.005495
Std Dev 0.915
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 4406 / 50
p0 5354 ± 5.289
6000
5800
5600
5400
5200
5000
4800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
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7977. 3
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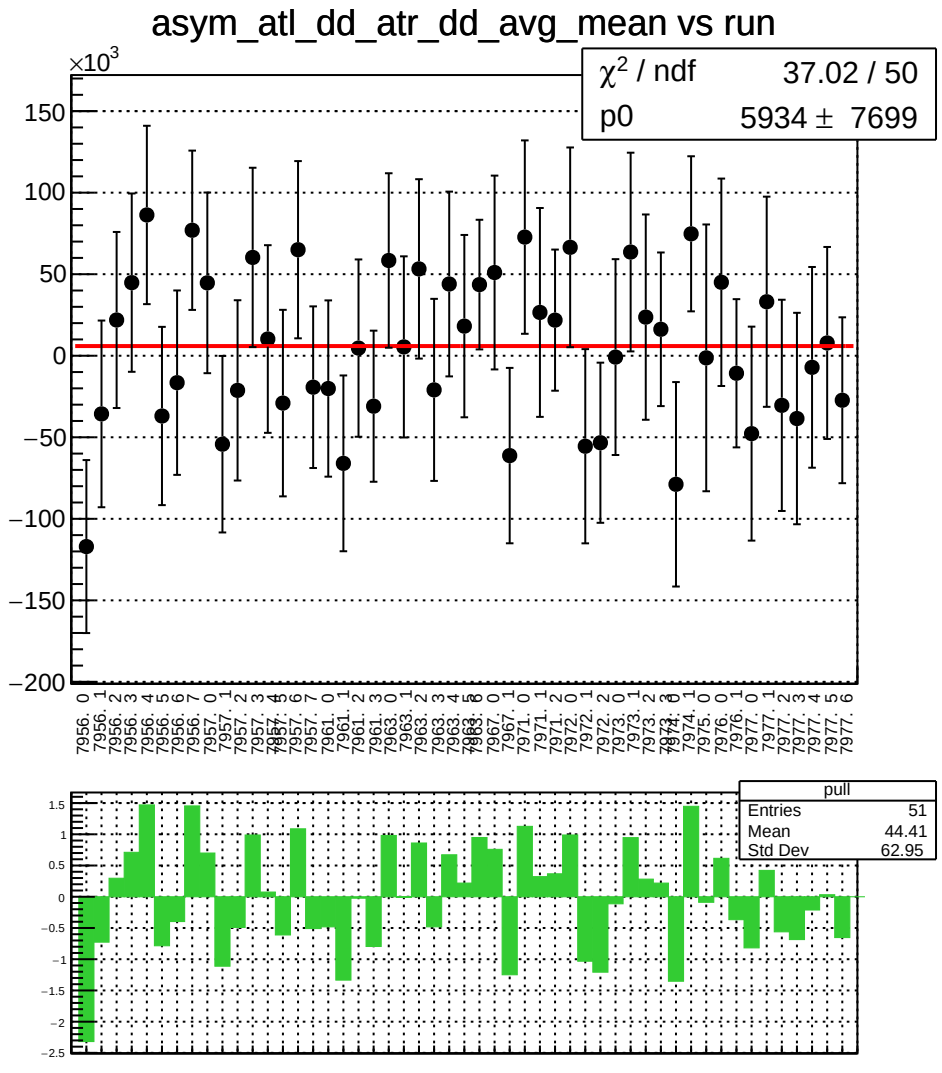
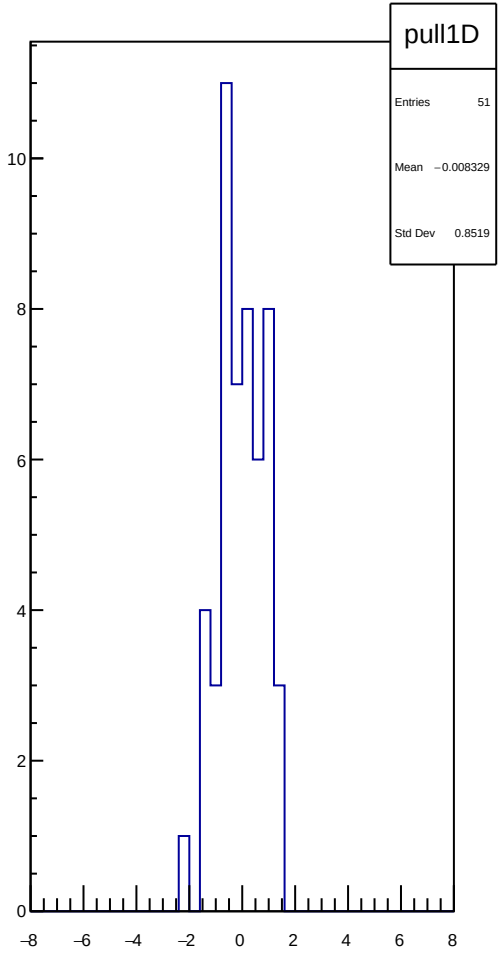
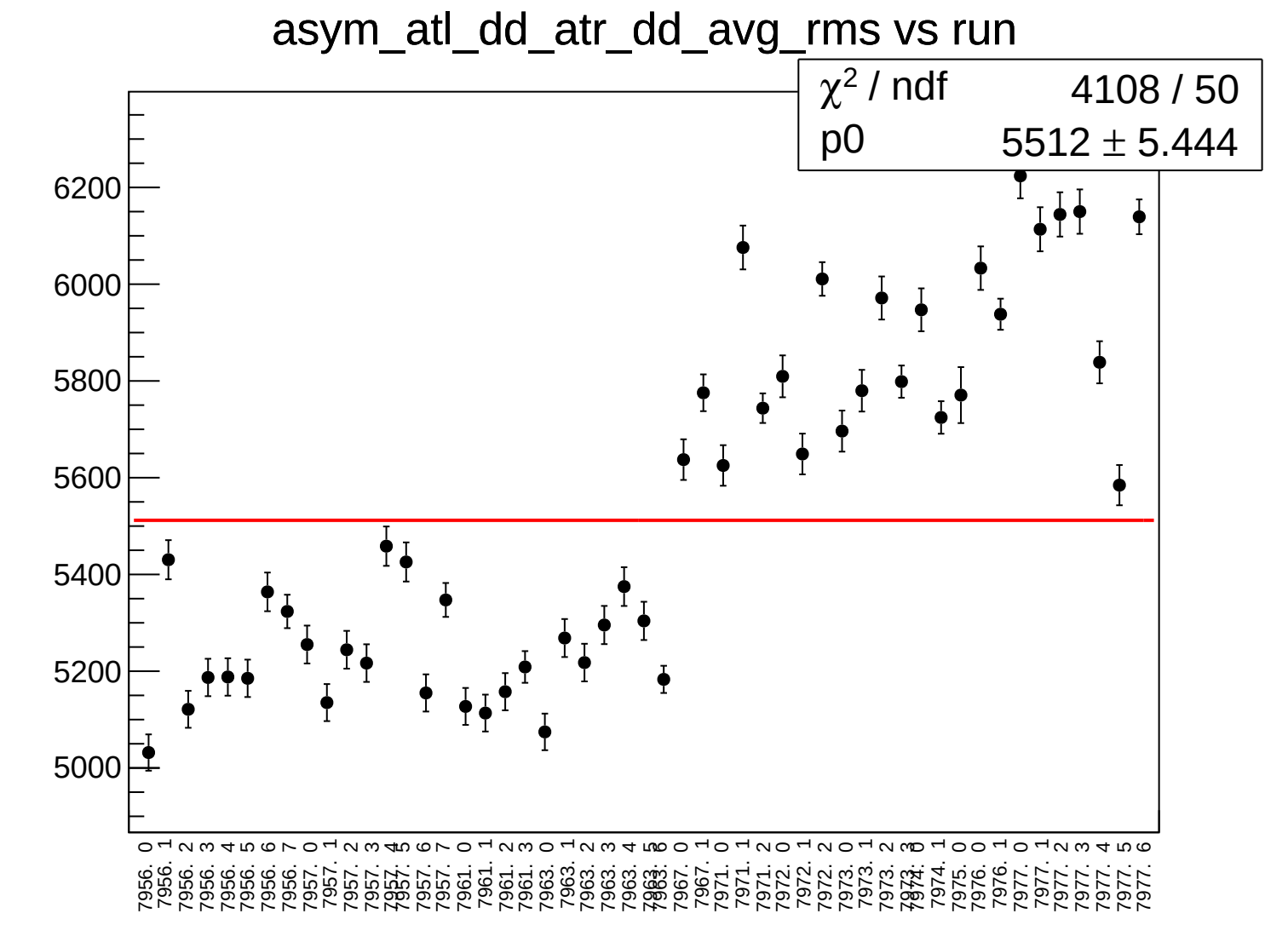
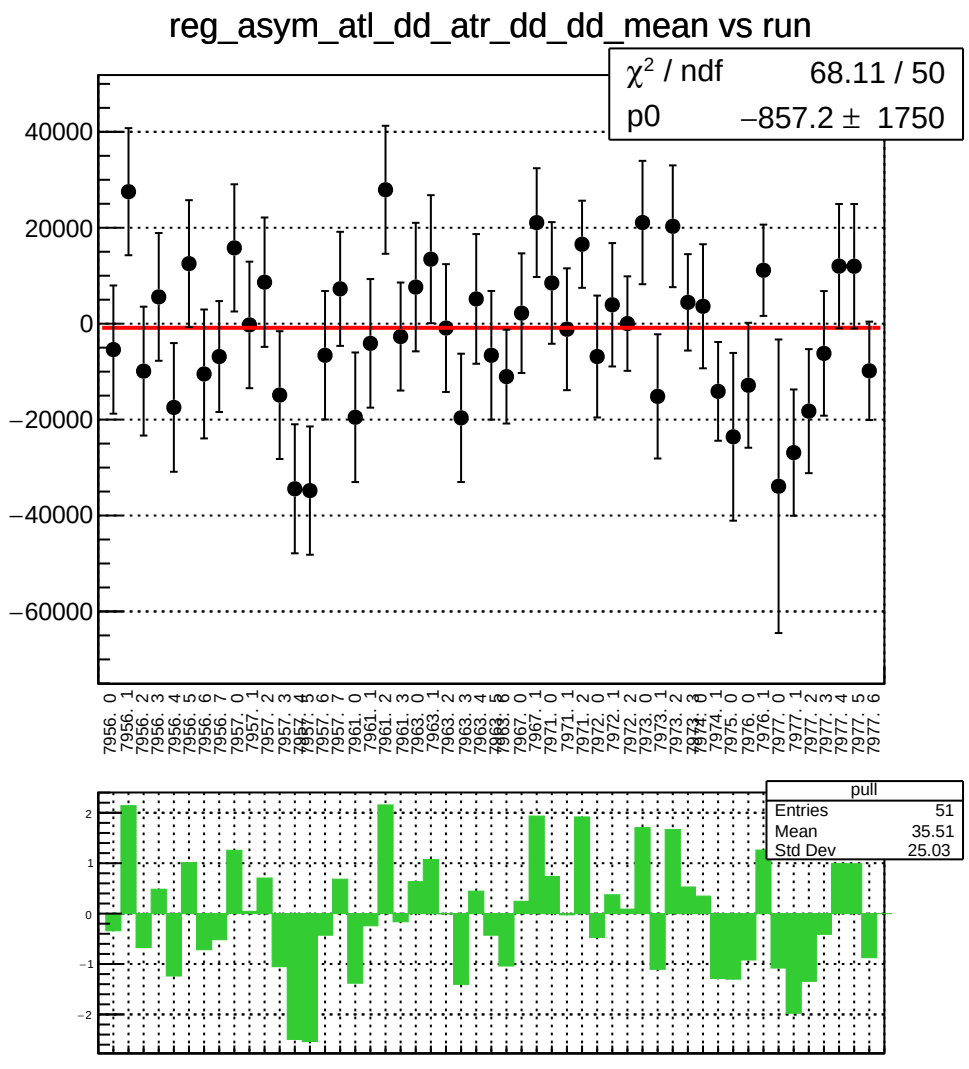
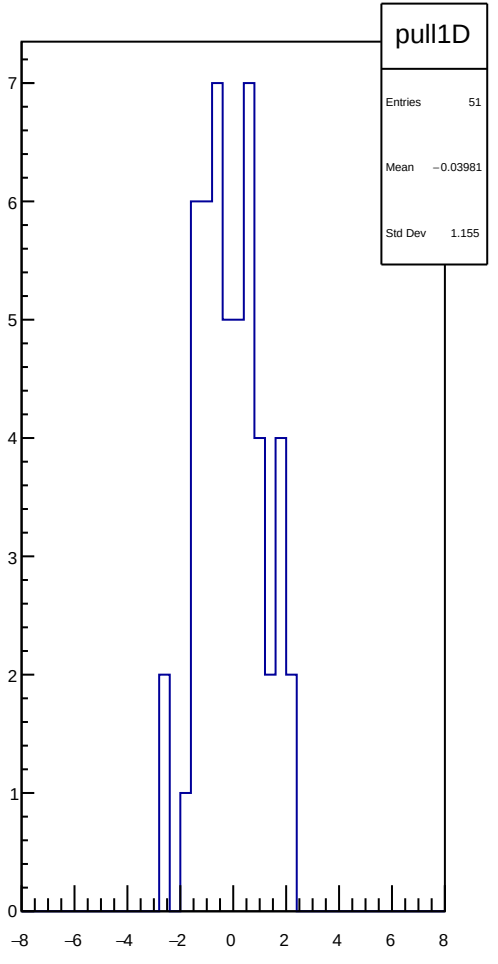
7977. 5
7977. 6

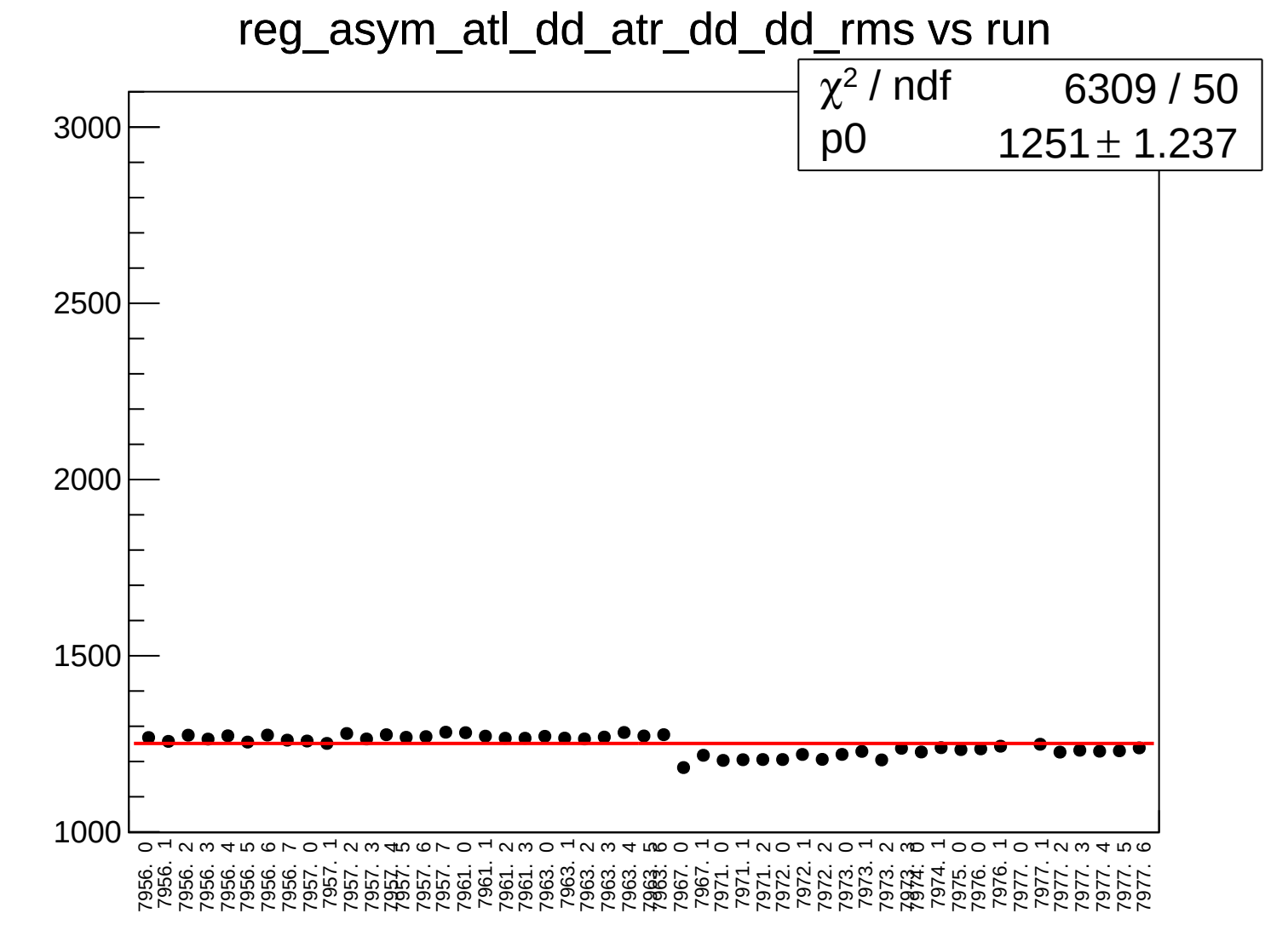

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 37.02 / 50
p0 5934 ± 7699
150
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean 44.41
Std Dev 62.95
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

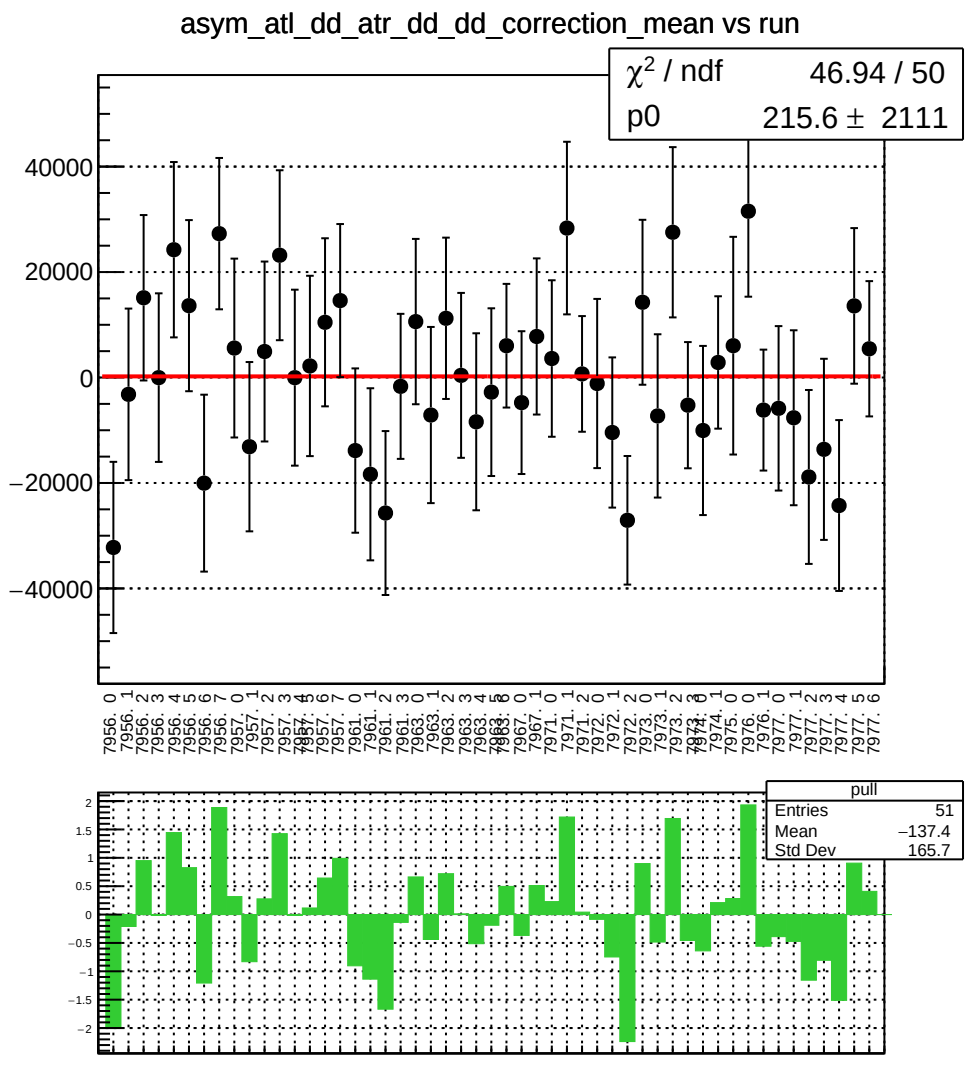

pull1D
Entries 51
Mean −0.008329
Std Dev 0.8519
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

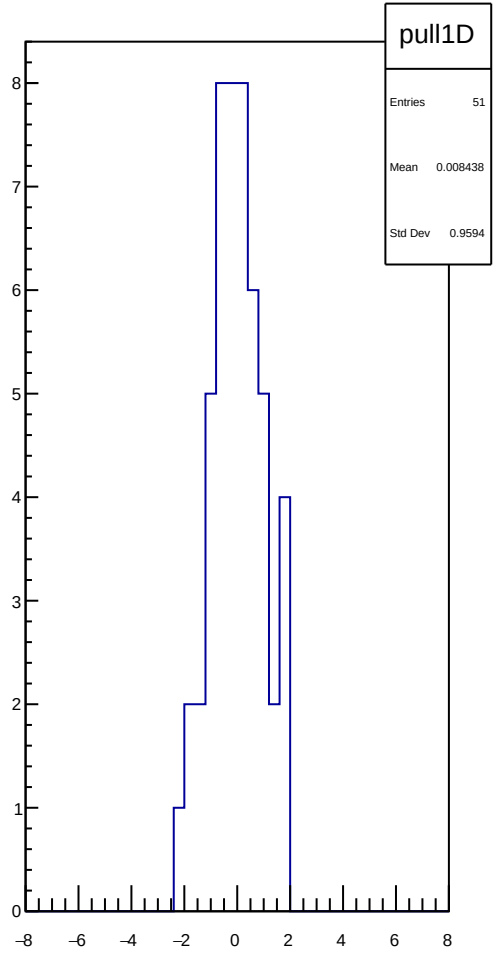

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 4108 / 50
p0 5512 ± 5.444
6200
6000
5800
5600
5400
5200
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

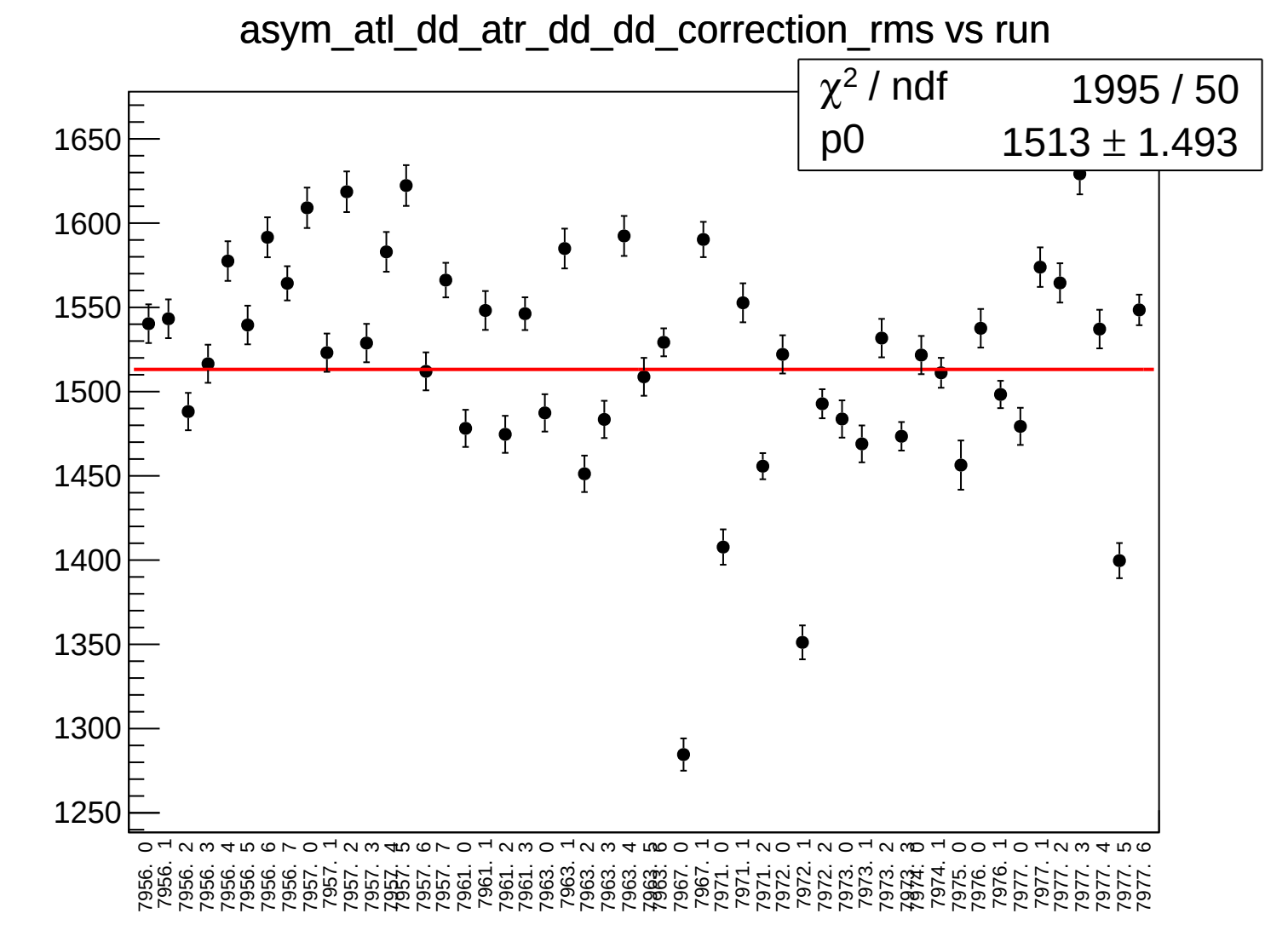

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 68.11 / 50
p0 −857.2 ± 1750
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 35.51
Std Dev 25.03
2
1
0
−1
−2

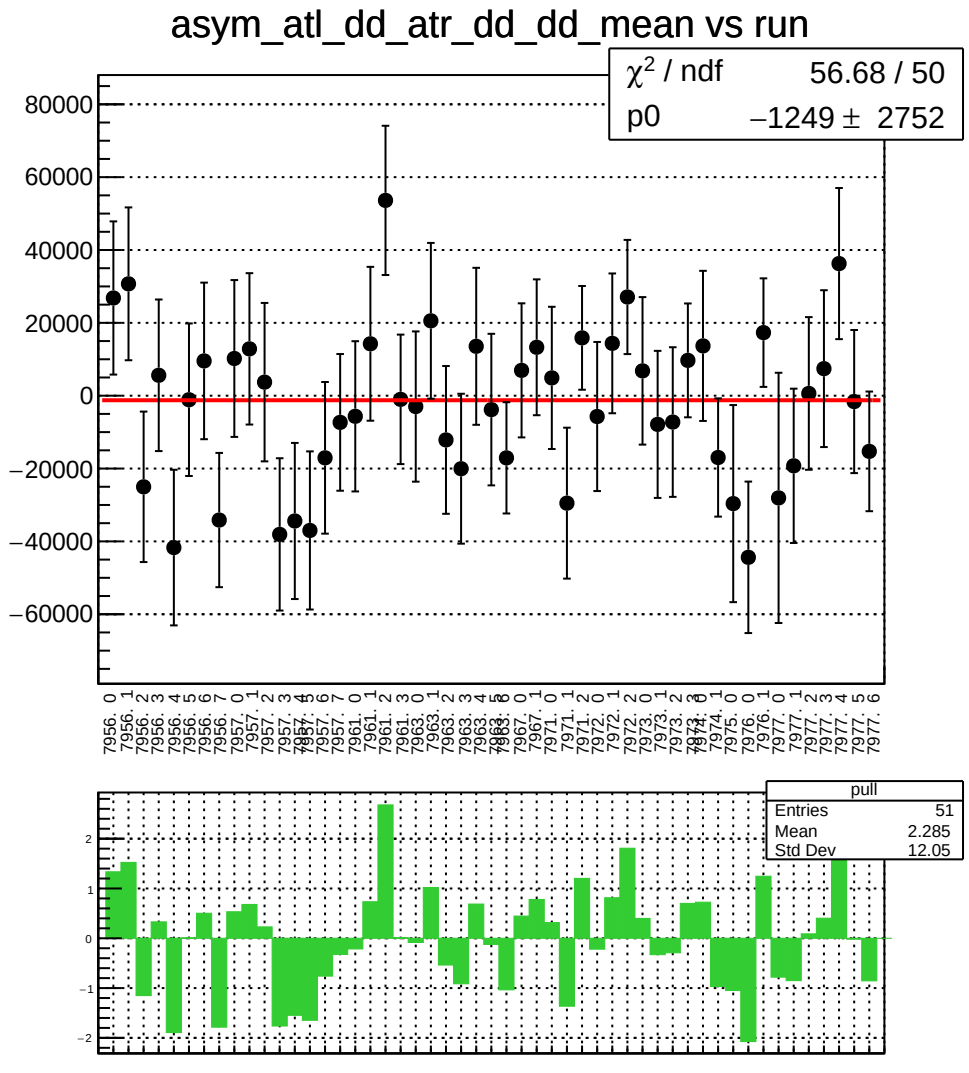

pull1D
Entries 51
Mean −0.03981
Std Dev 1.155
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

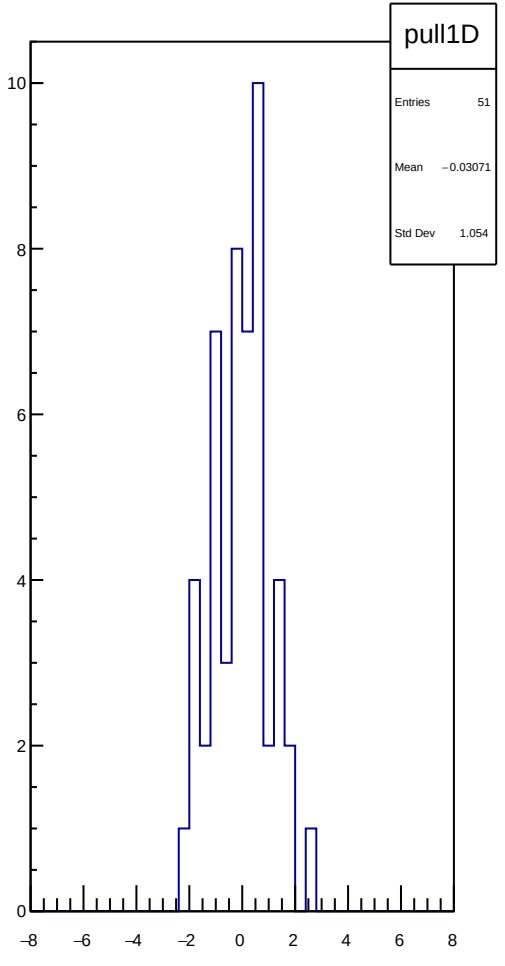

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 6309 / 50
p0 1251 ± 1.237
3000
2500
2000
1500
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

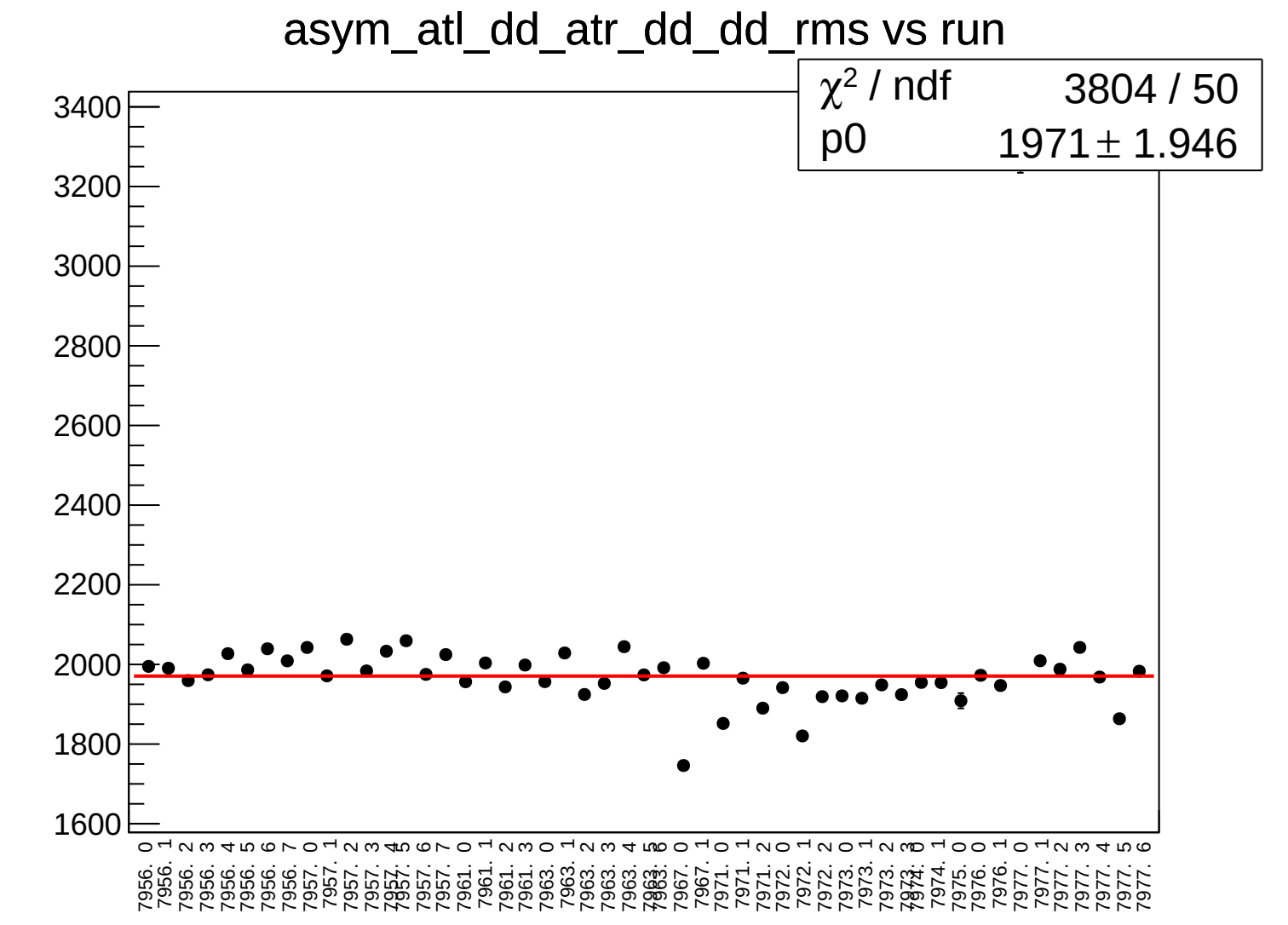

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 46.94 / 50
p0 215.6 ± 2111
40000
20000
0
−20000
−40000
pull
Entries 51
Mean −137.4
Std Dev 165.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.008438
Std Dev 0.9594
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 1995 / 50
p0 1513 ± 1.493
1650
1600
1550
1500
1450
1400
1350
1300
1250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 56.68 / 50
p0 −1249 ± 2752
pull
Entries 51
Mean 2.285
Std Dev 12.05


pull1D
Entries 51
Mean −0.03071
Std Dev 1.054


asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 3804 / 50
p0 1971 ± 1.946
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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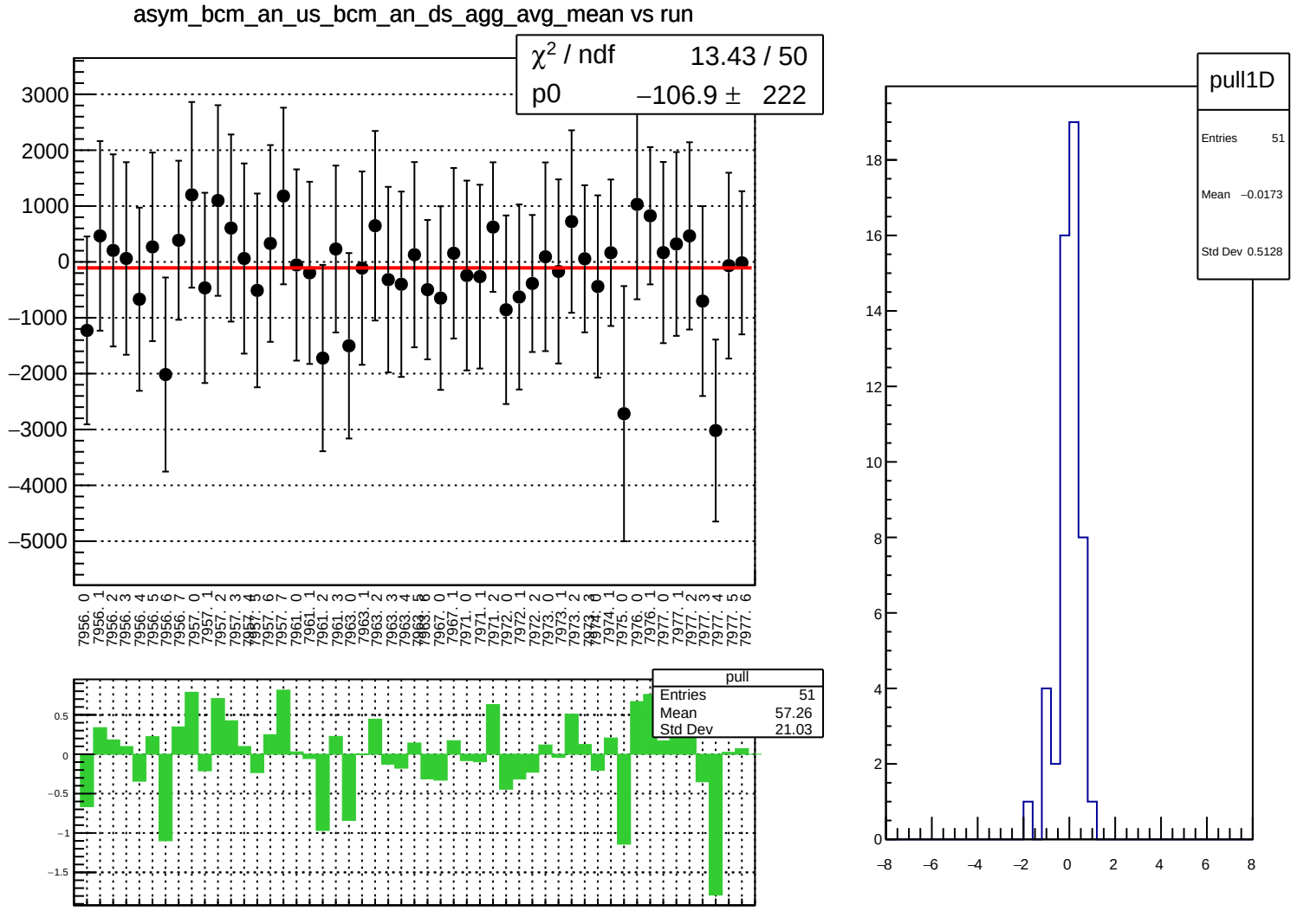
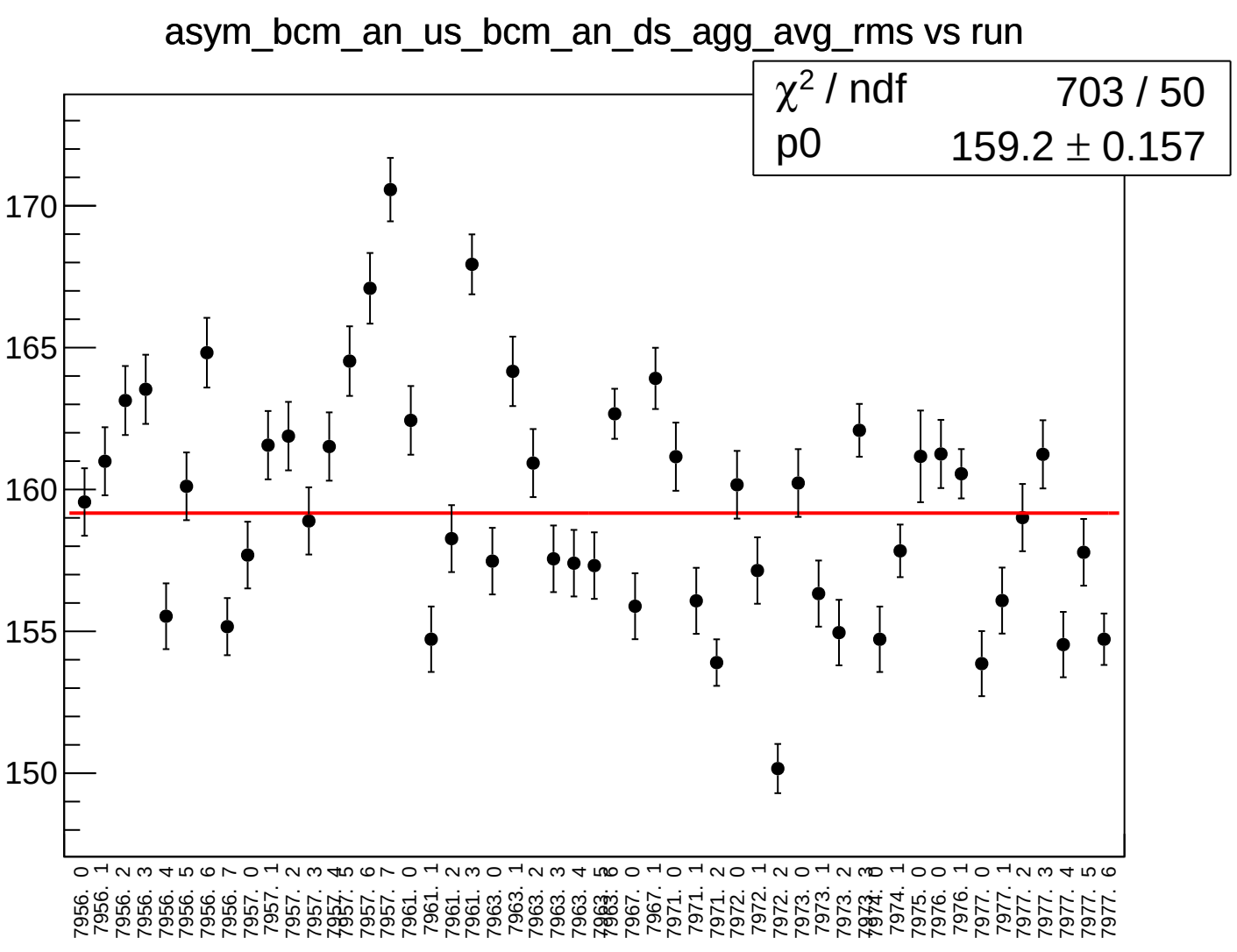
7977. 5
7977. 6


asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.43 / 50
p0 −106.9 ± 222
pull
Entries 51
Mean 57.26
Std Dev 21.03
pull1D
Entries 51
Mean −0.0173
Std Dev 0.5128


asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 703 / 50
p0 159.2 ± 0.157
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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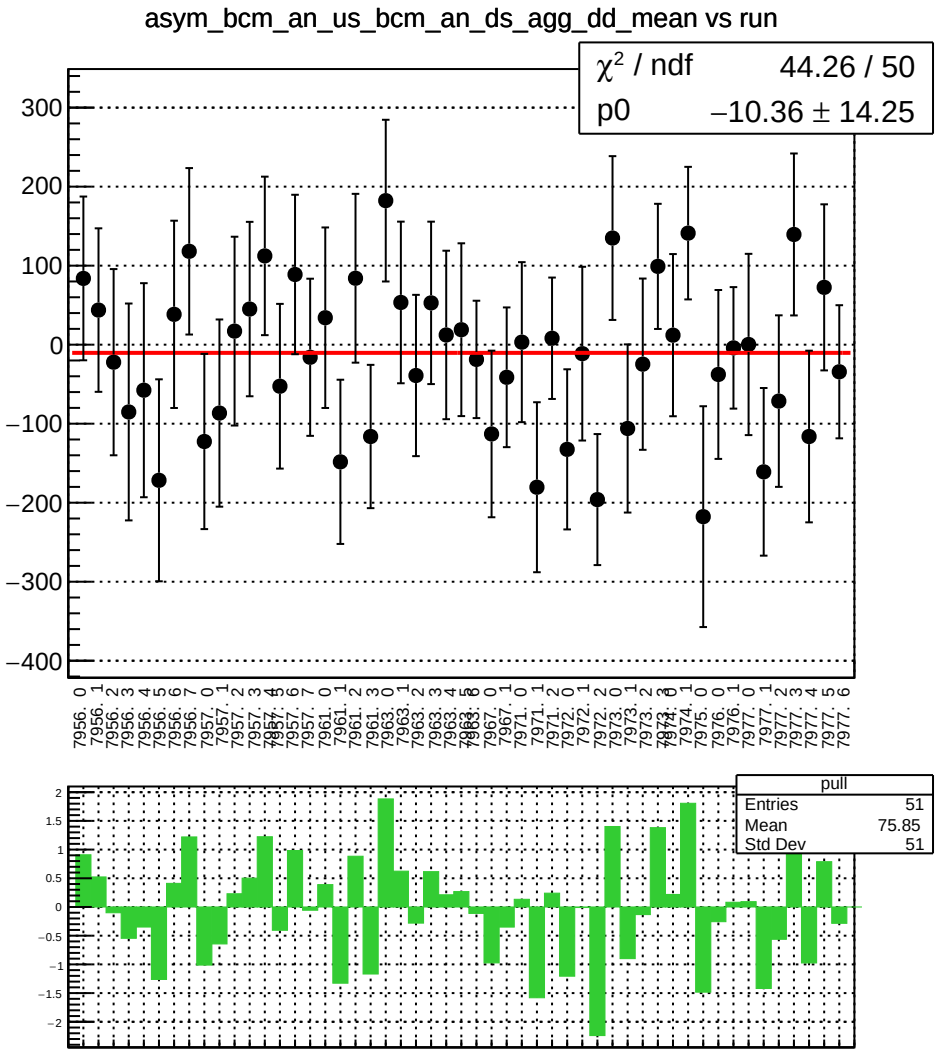
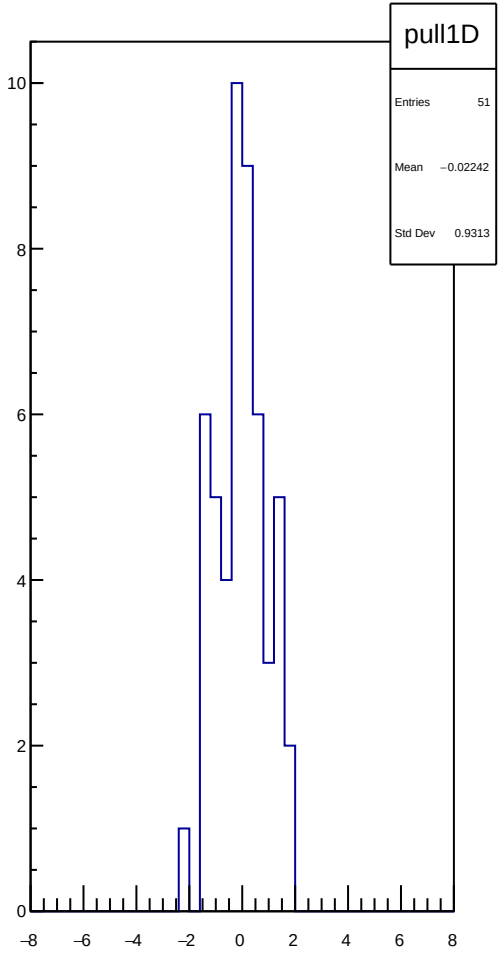
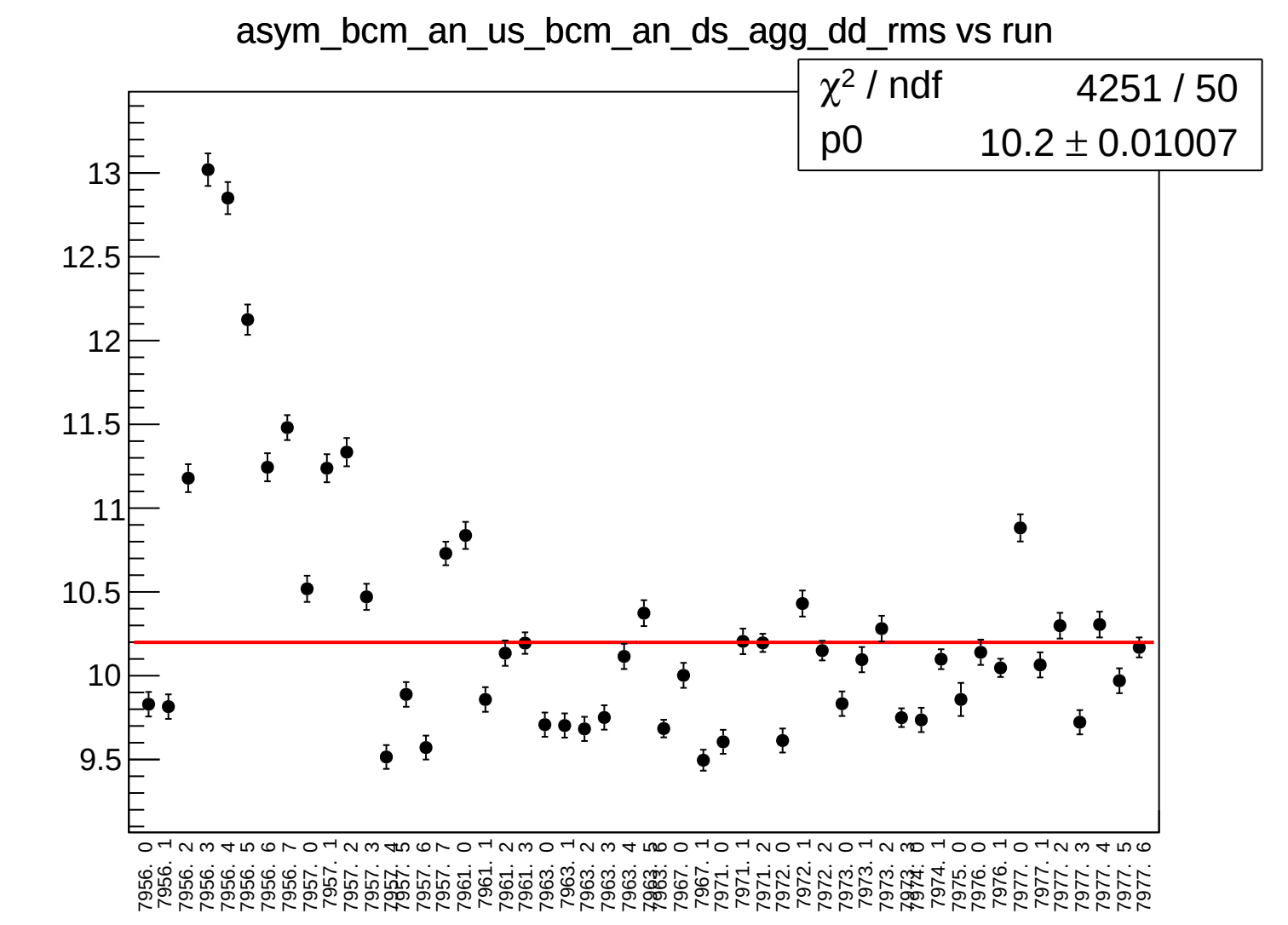
7977. 5
7977. 6


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.26 / 50
p0 −10.36 ± 14.25
pull
Entries 51
Mean 75.85
Std Dev 51


pull1D
Entries 51
Mean −0.02242
Std Dev 0.9313


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4251 / 50
p0 10.2 ± 0.01007
13
12.5
12
11.5
11
10.5
10
9.5
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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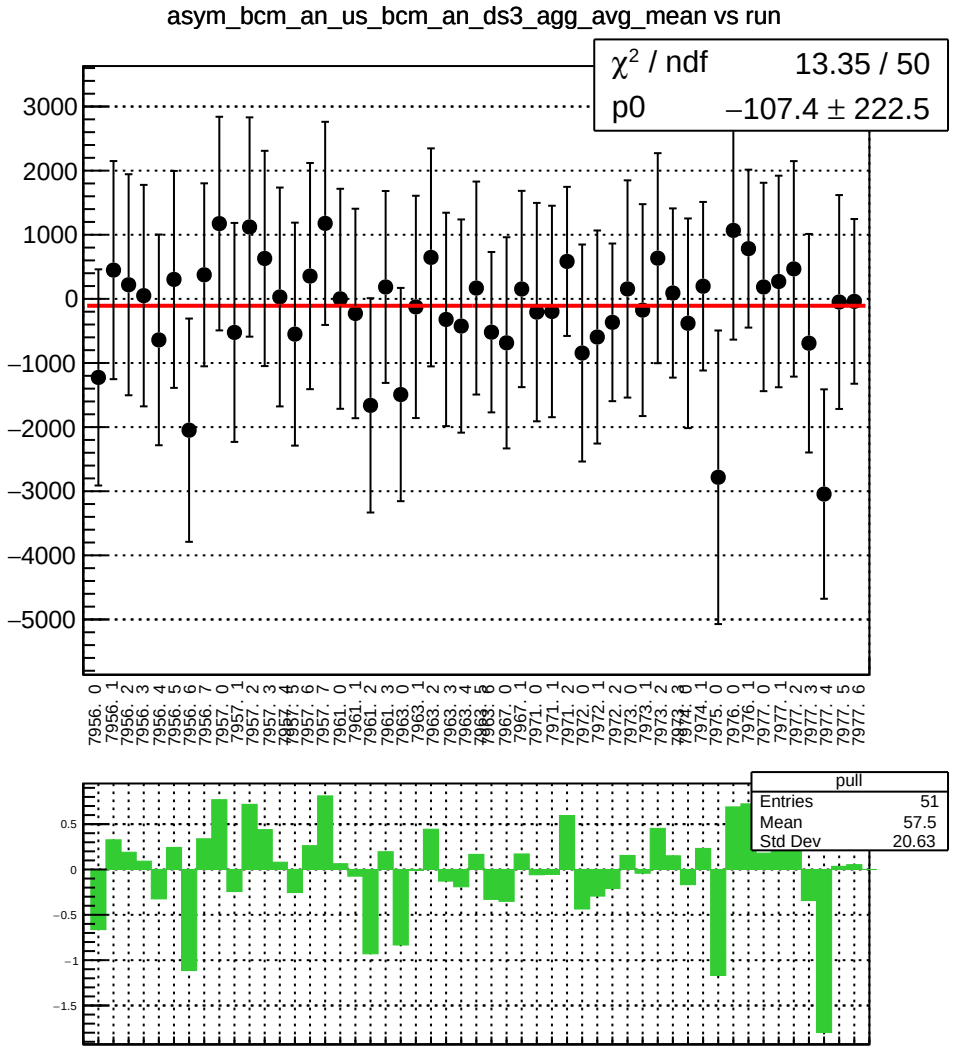
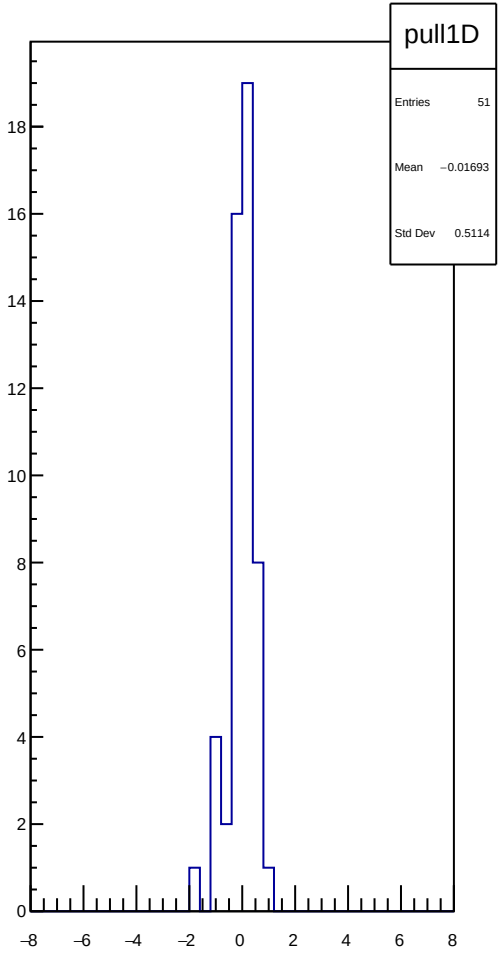
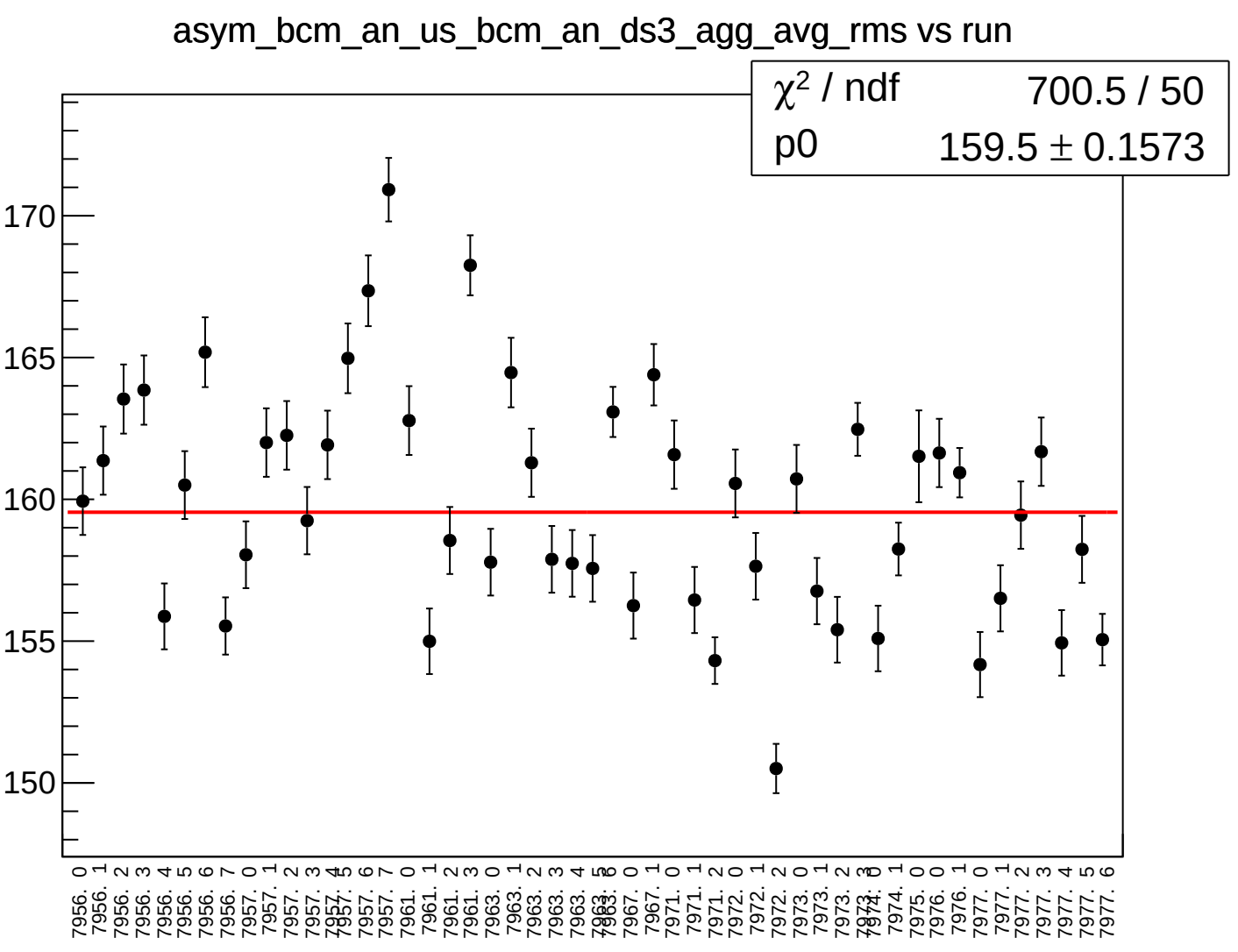
7977. 5
7977. 6


asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 13.35 / 50
p0 −107.4 ± 222.5
pull
Entries 51
Mean 57.5
Std Dev 20.63


pull1D
Entries 51
Mean −0.01693
Std Dev 0.5114


asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 700.5 / 50
p0 159.5 ± 0.1573
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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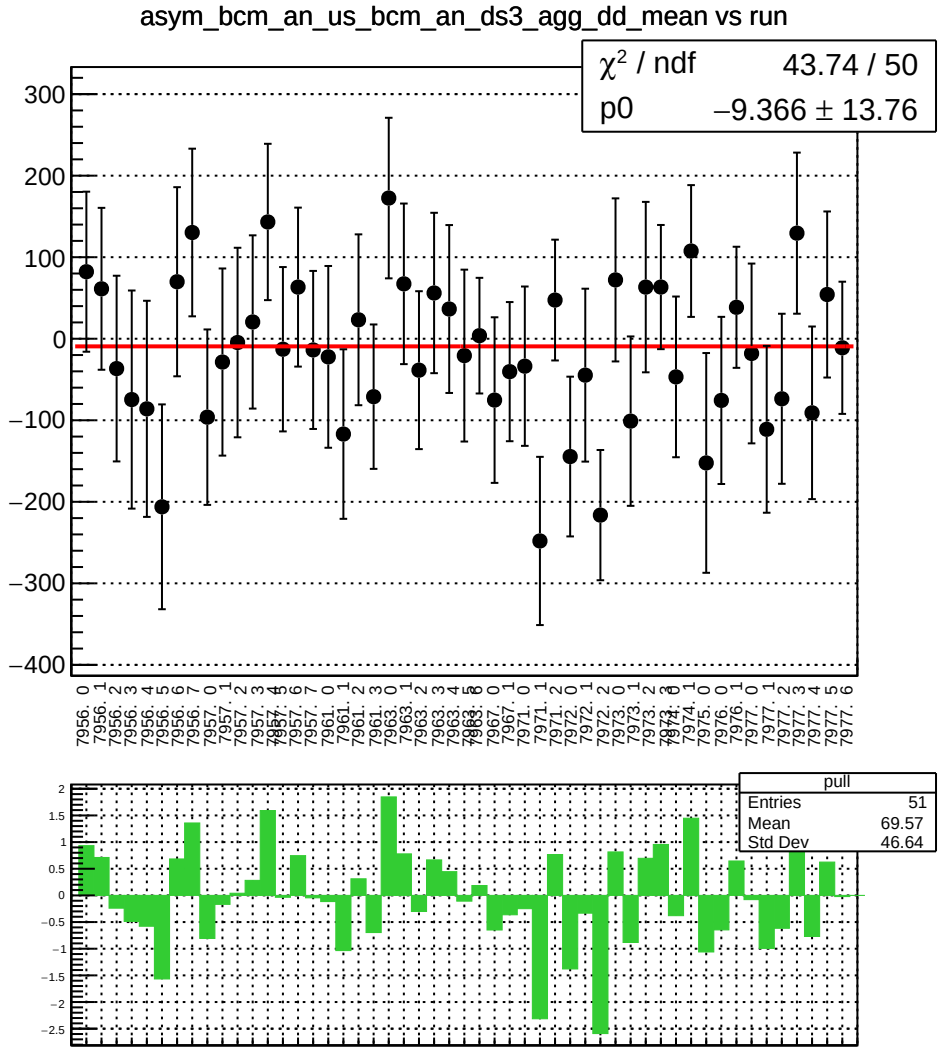
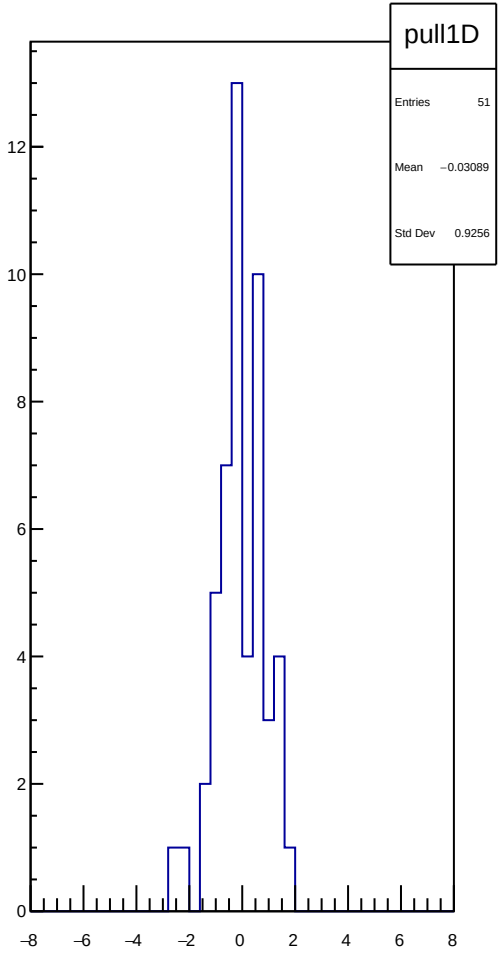
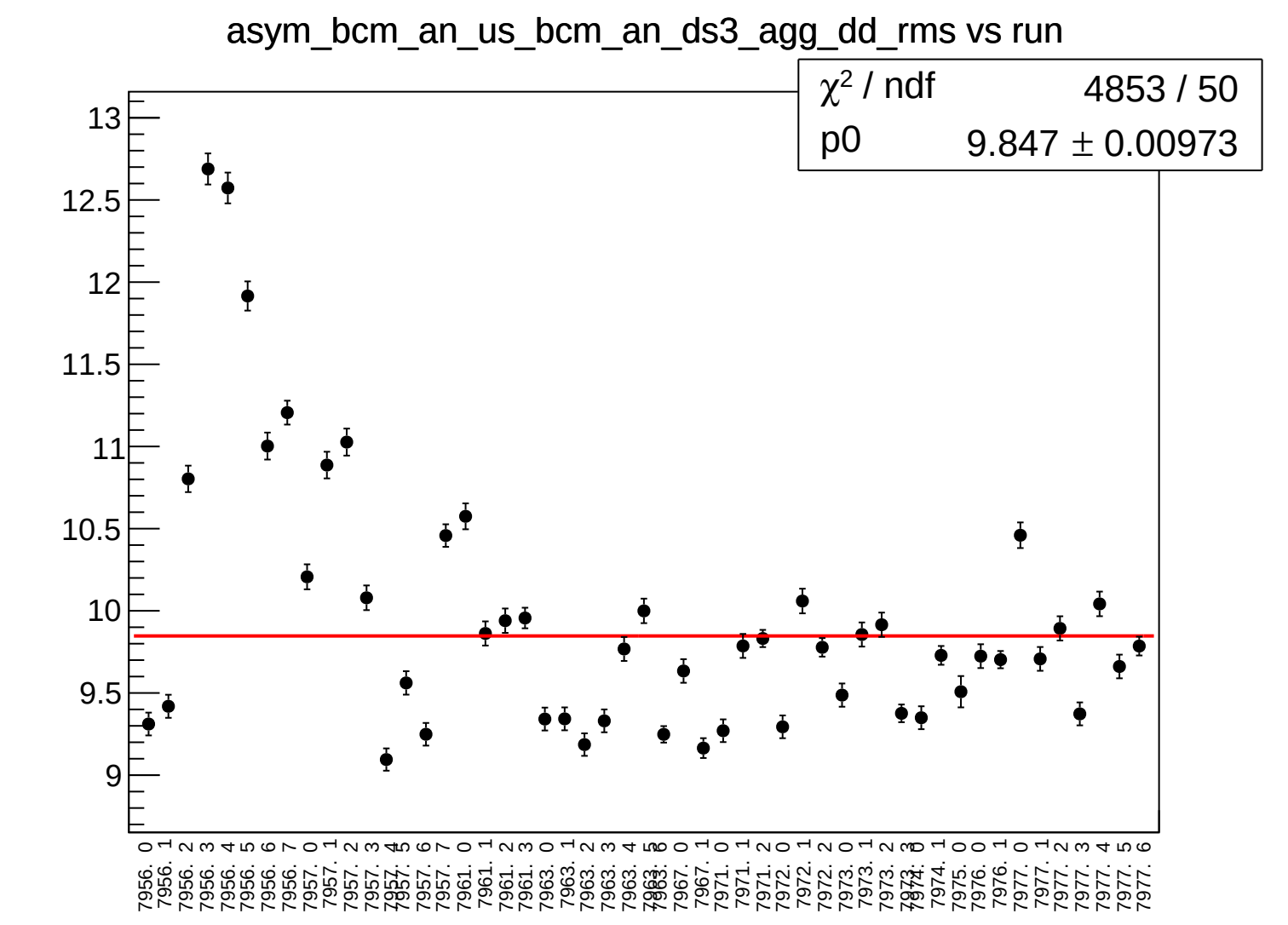
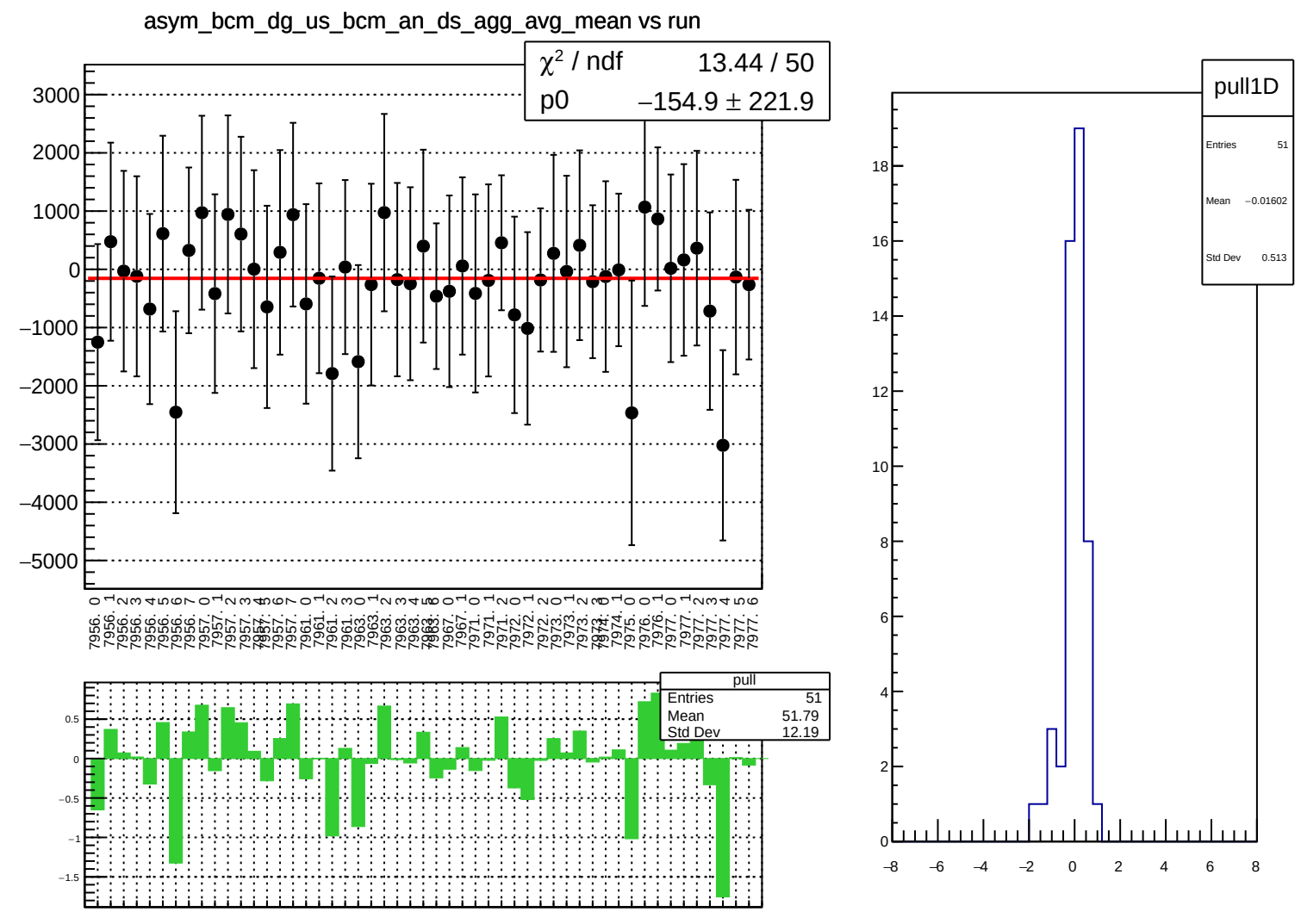
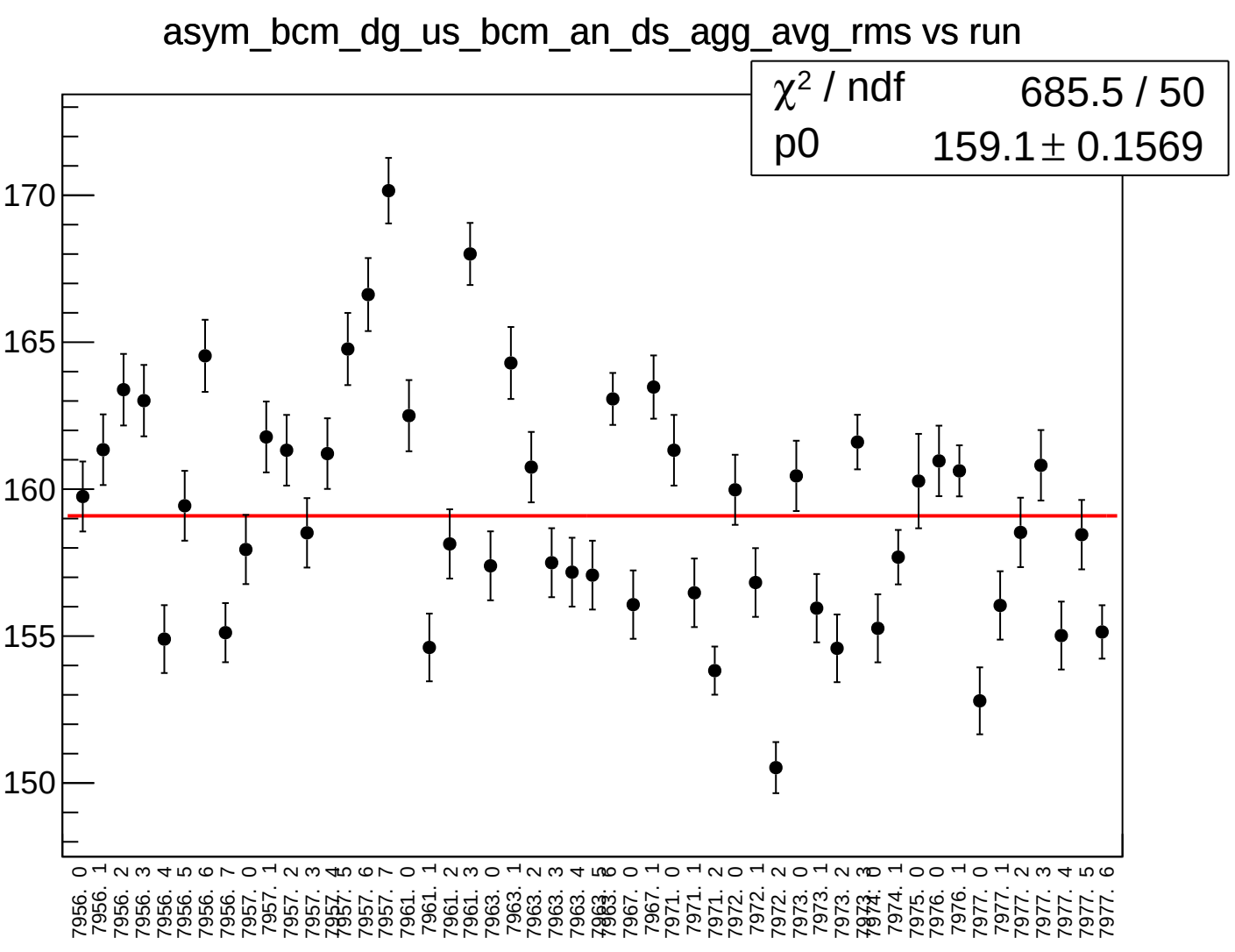
7977. 5
7977. 6


asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 43.74 / 50
p0 −9.366 ± 13.76
pull
Entries 51
Mean 69.57
Std Dev 46.64


pull1D
Entries 51
Mean −0.03089
Std Dev 0.9256


asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4853 / 50
p0 9.847 ± 0.00973
13
12.5
12
11.5
11
10.5
10
9.5
9
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.44 / 50
p0 −154.9 ± 221.9
pull
Entries 51
Mean 51.79
Std Dev 12.19
pull1D
Entries 51
Mean −0.01602
Std Dev 0.513


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 685.5 / 50
p0 159.1 ± 0.1569
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
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7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
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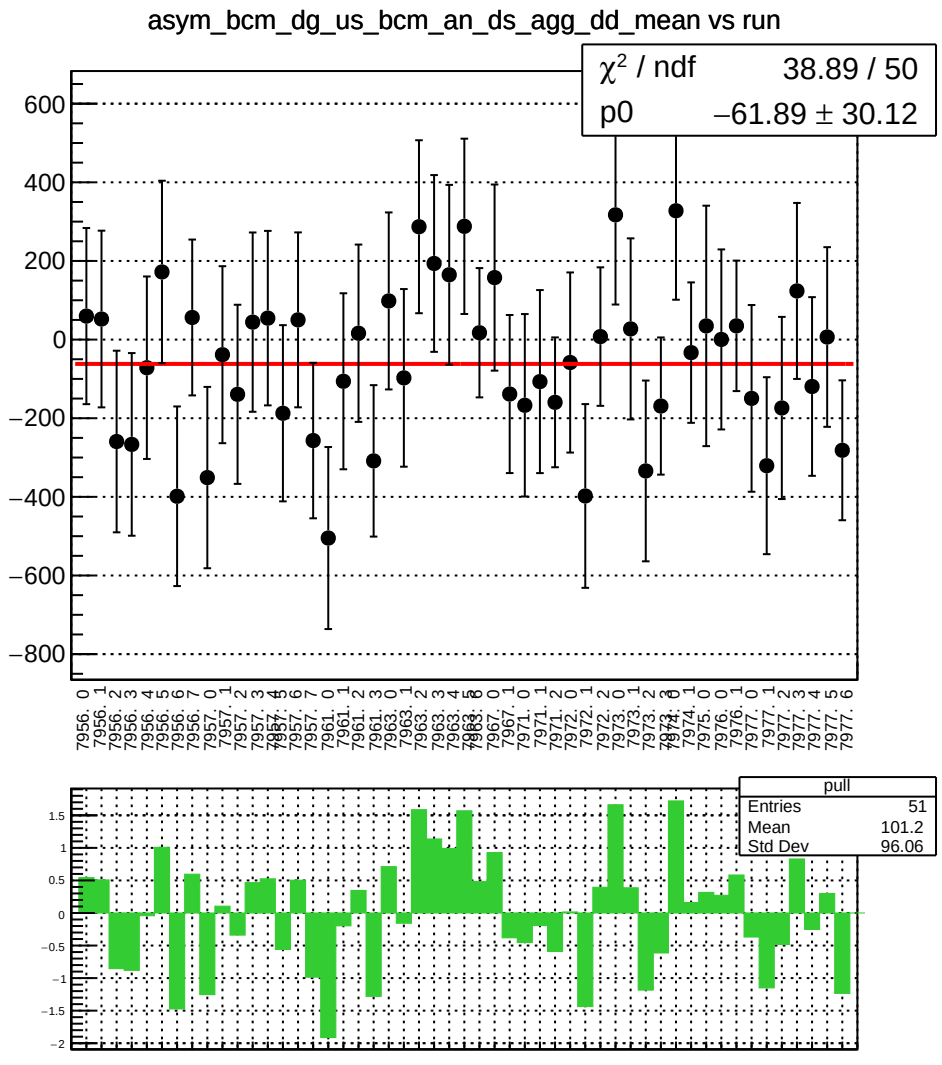
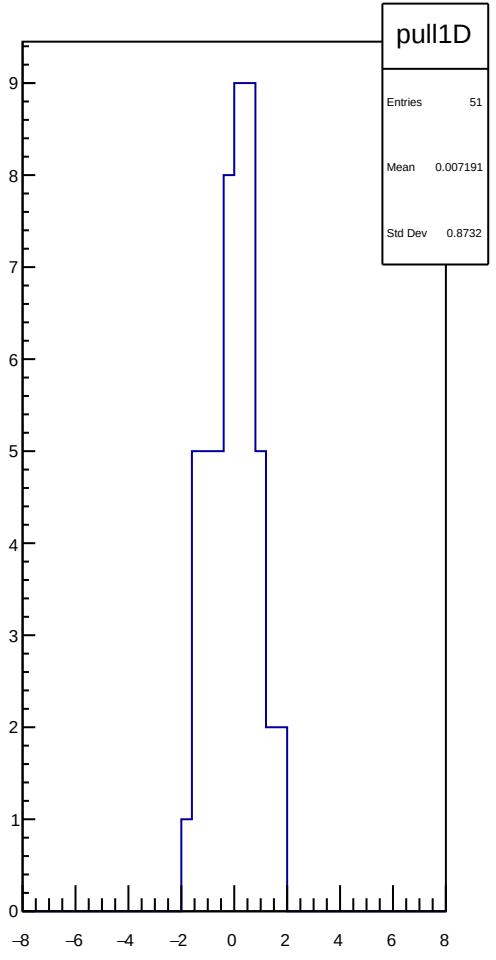
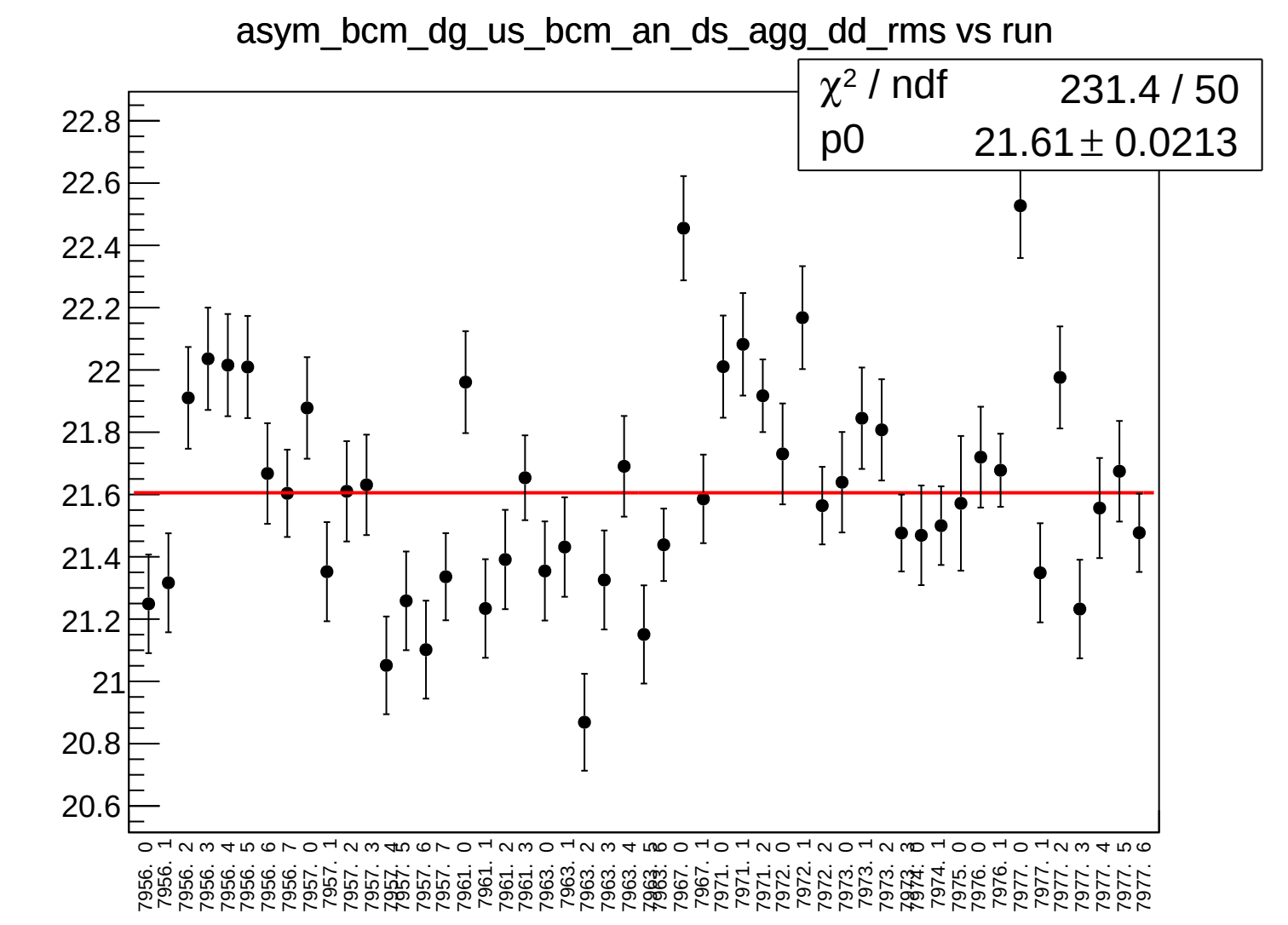
7977. 6


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 38.89 / 50
p0 −61.89 ± 30.12
pull
Entries 51
Mean 101.2
Std Dev 96.06


pull1D
Entries 51
Mean 0.007191
Std Dev 0.8732


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 231.4 / 50
p0 21.61 ± 0.0213
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
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7957. 2
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7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
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7963. 3
7963. 4
7967. 0
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7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
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7973. 1
7973. 2
7974. 0
7974. 1
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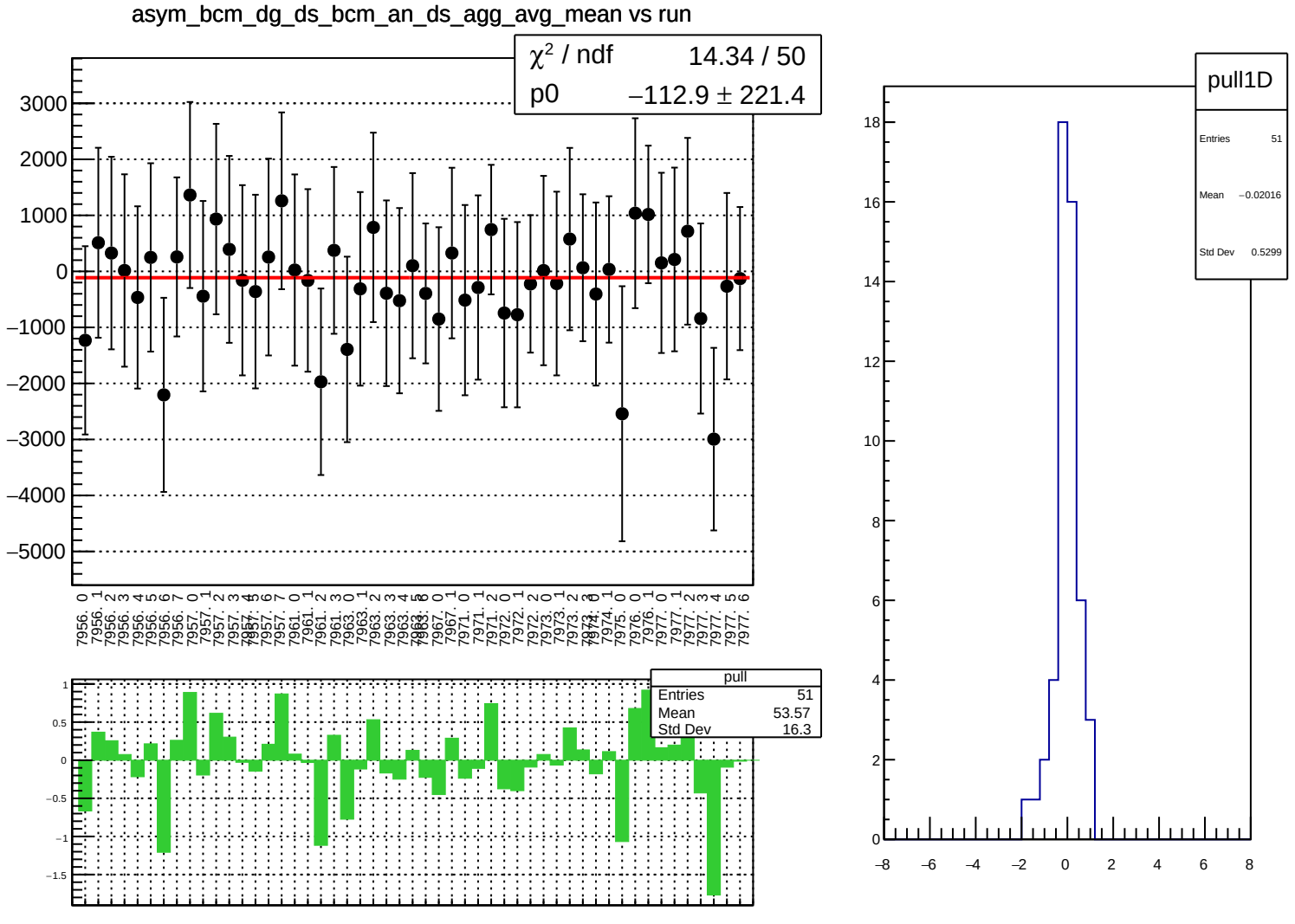
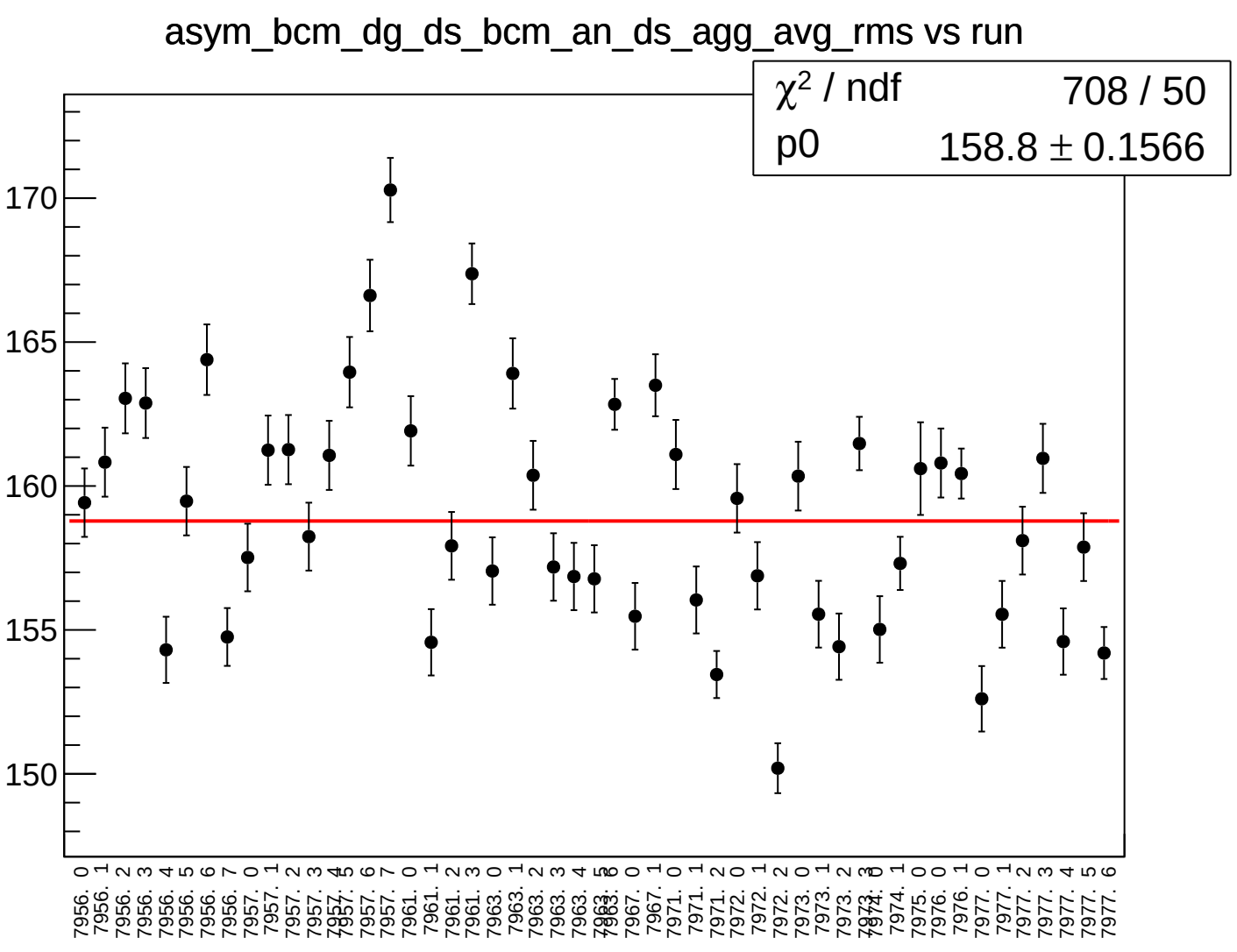
7977. 6


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.34 / 50
p0 −112.9 ± 221.4
pull
Entries 51
Mean 53.57
Std Dev 16.3
pull1D
Entries 51
Mean −0.02016
Std Dev 0.5299


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 708 / 50
p0 158.8 ± 0.1566
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
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7957. 7
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7961. 2
7961. 3
7963. 0
7963. 1
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7963. 3
7963. 4
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7973. 0
7973. 1
7973. 2
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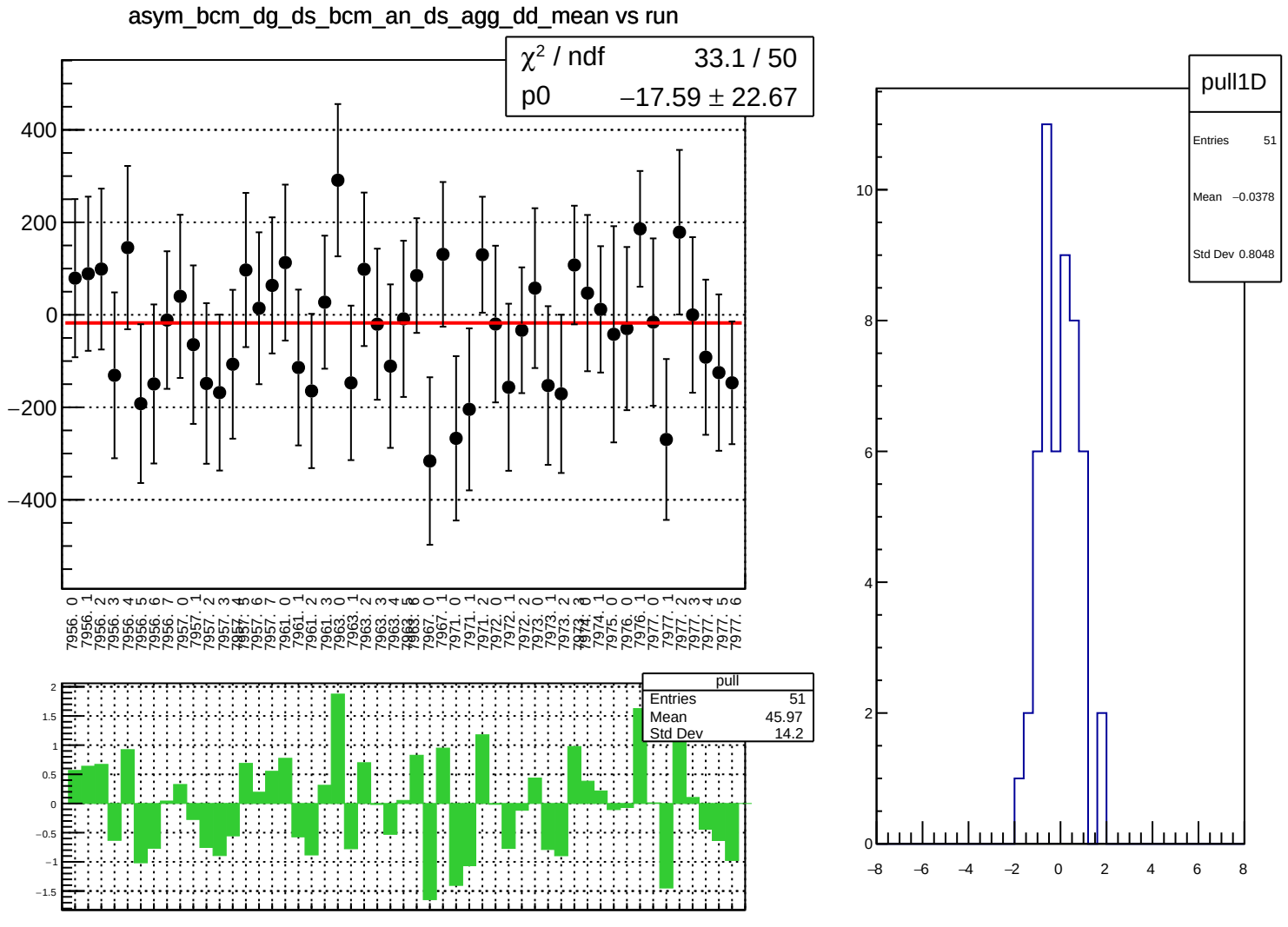
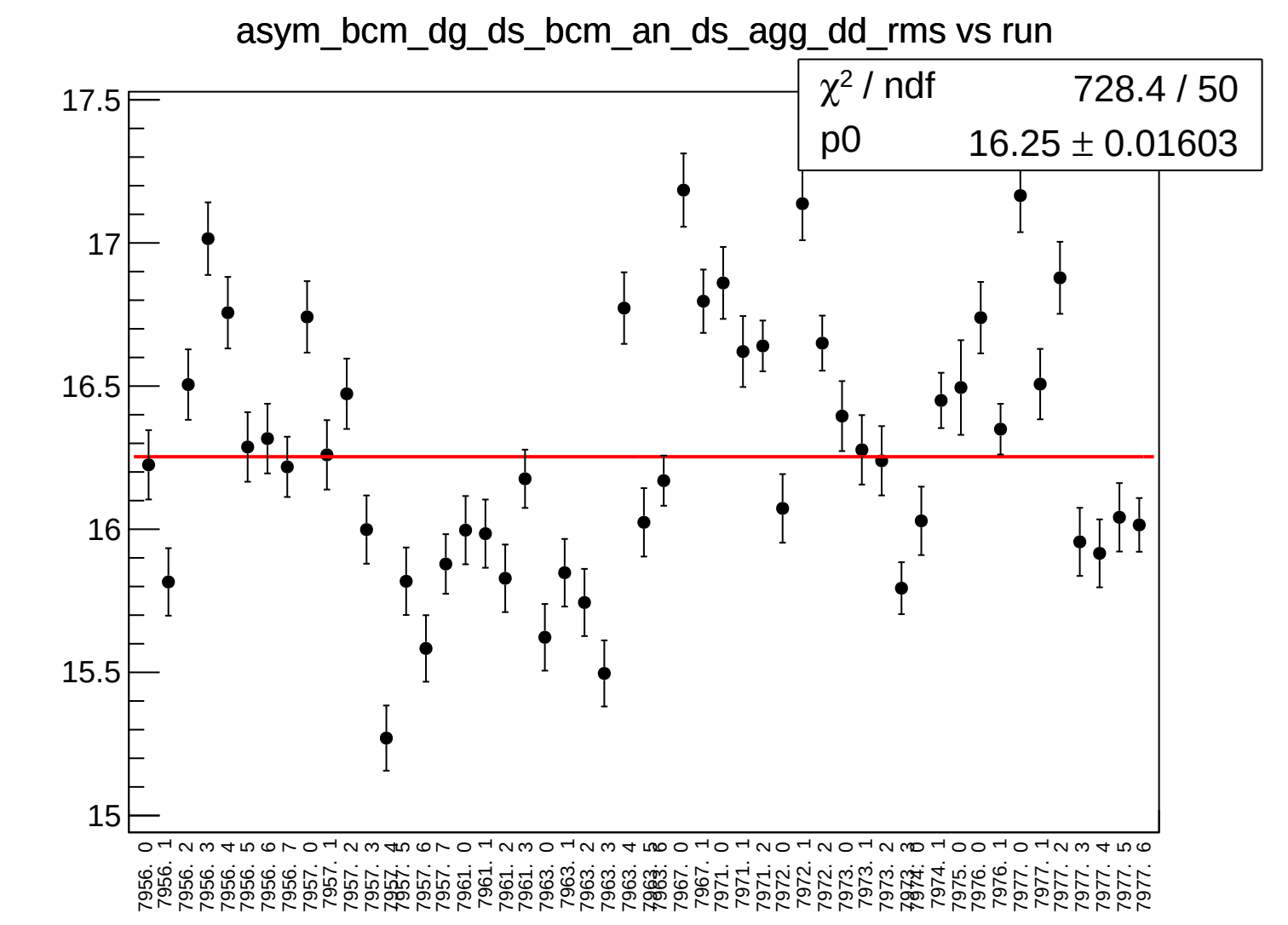
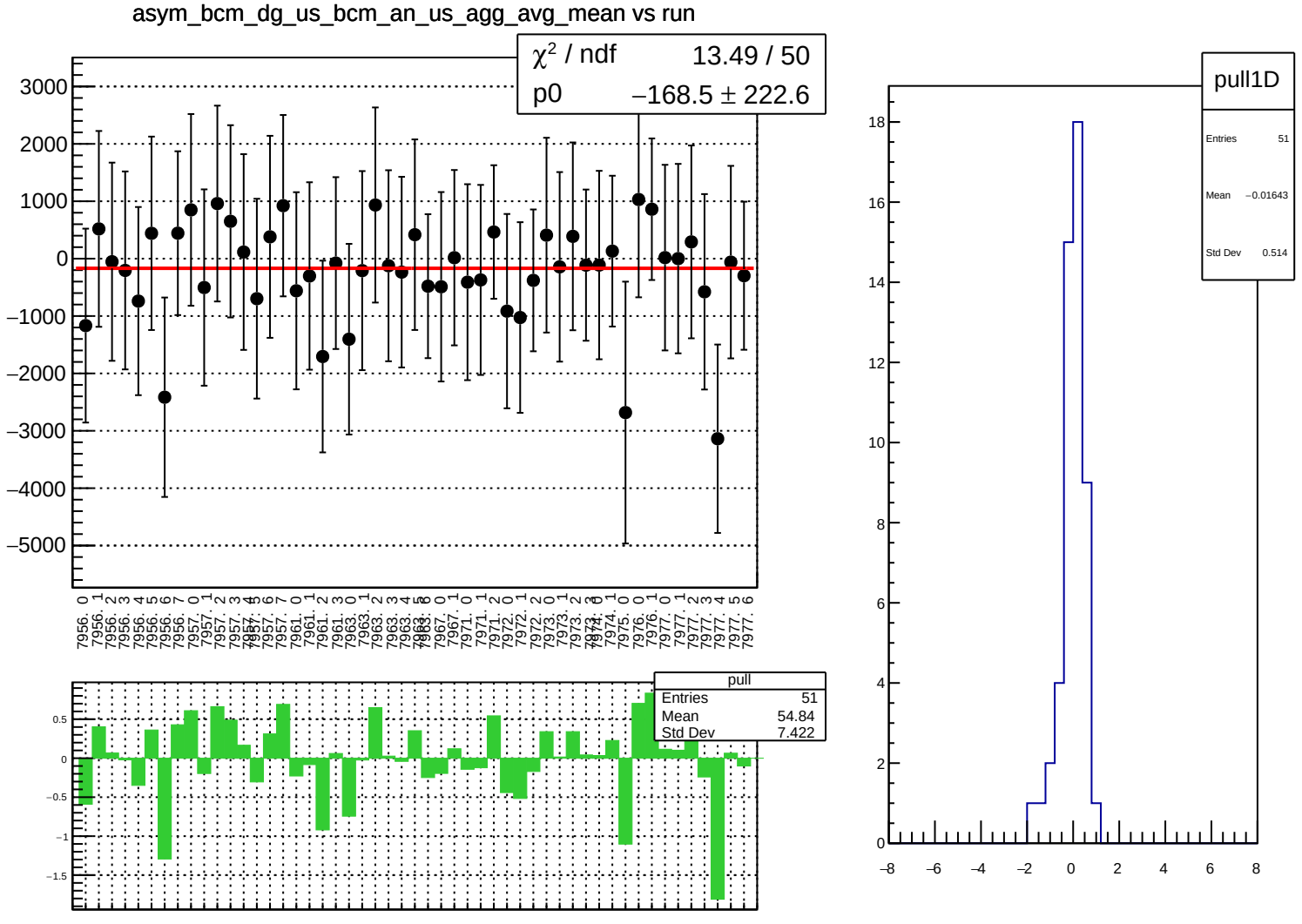
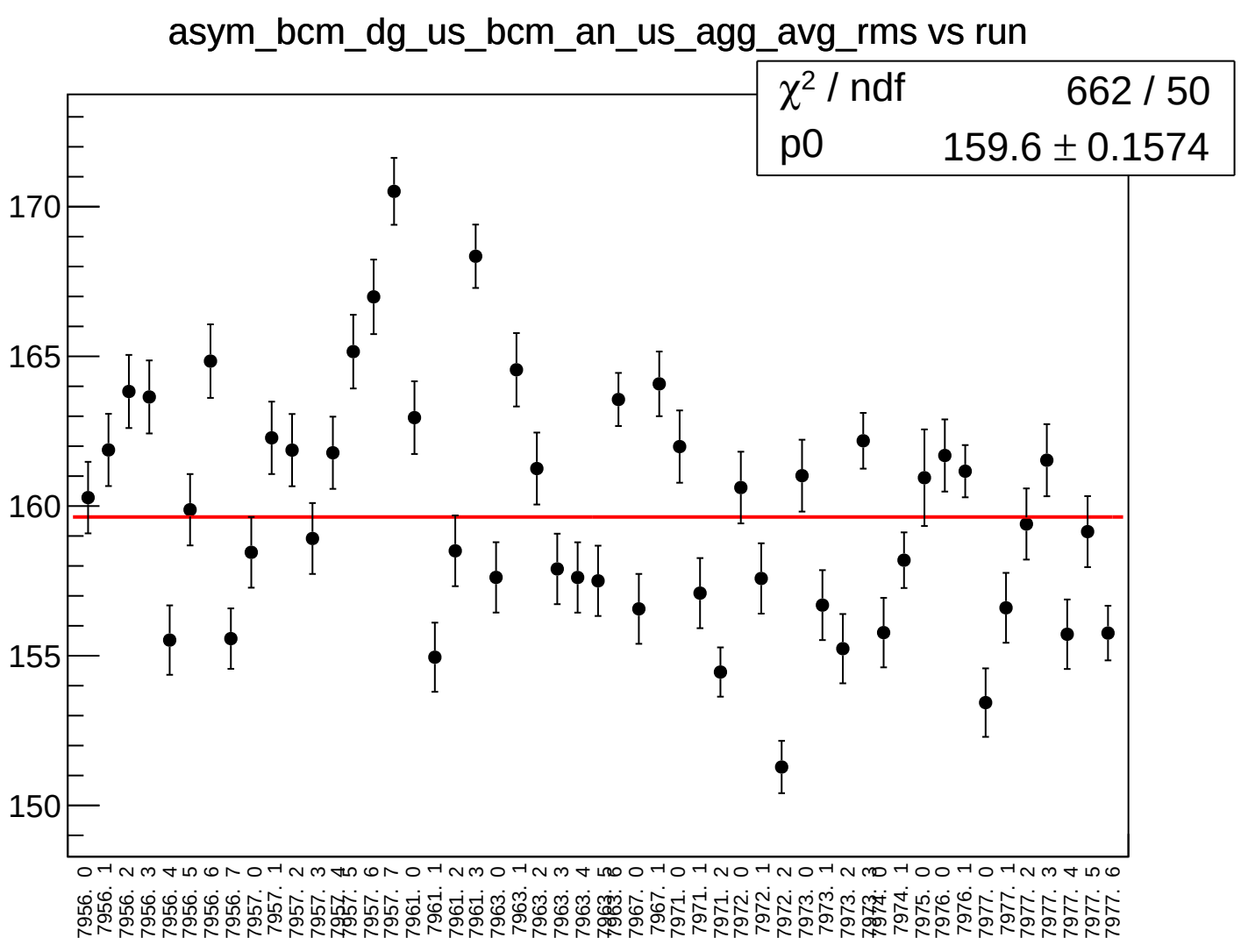
7977. 6


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 33.1 / 50
p0 −17.59 ± 22.67
400
200
0
−200
−400
pull
Entries 51
Mean 45.97
Std Dev 14.2
pull1D
Entries 51
Mean −0.0378
Std Dev 0.8048


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 728.4 / 50
p0 16.25 ± 0.01603
17.5
17
16.5
16
15.5
15


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.49 / 50
p0 −168.5 ± 222.6
pull
Entries 51
Mean 54.84
Std Dev 7.422
pull1D
Entries 51
Mean −0.01643
Std Dev 0.514


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 662 / 50
p0 159.6 ± 0.1574
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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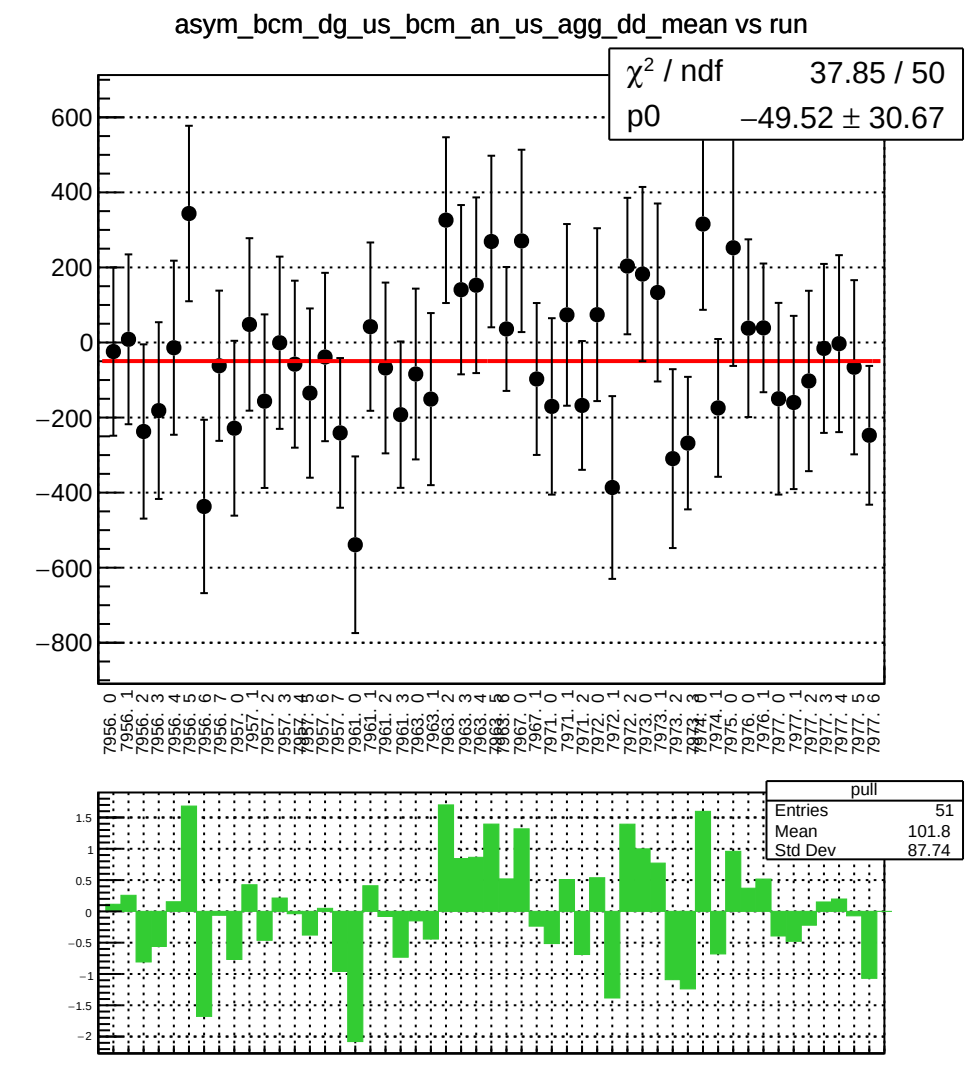
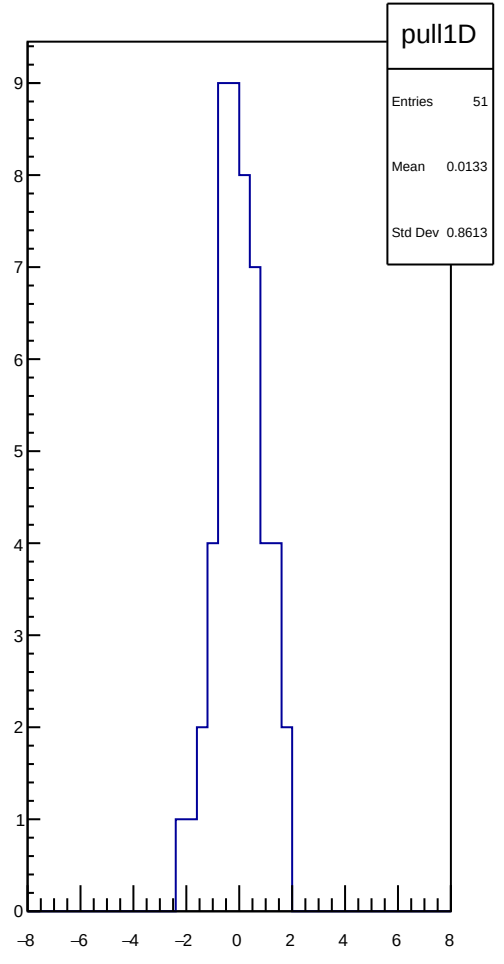
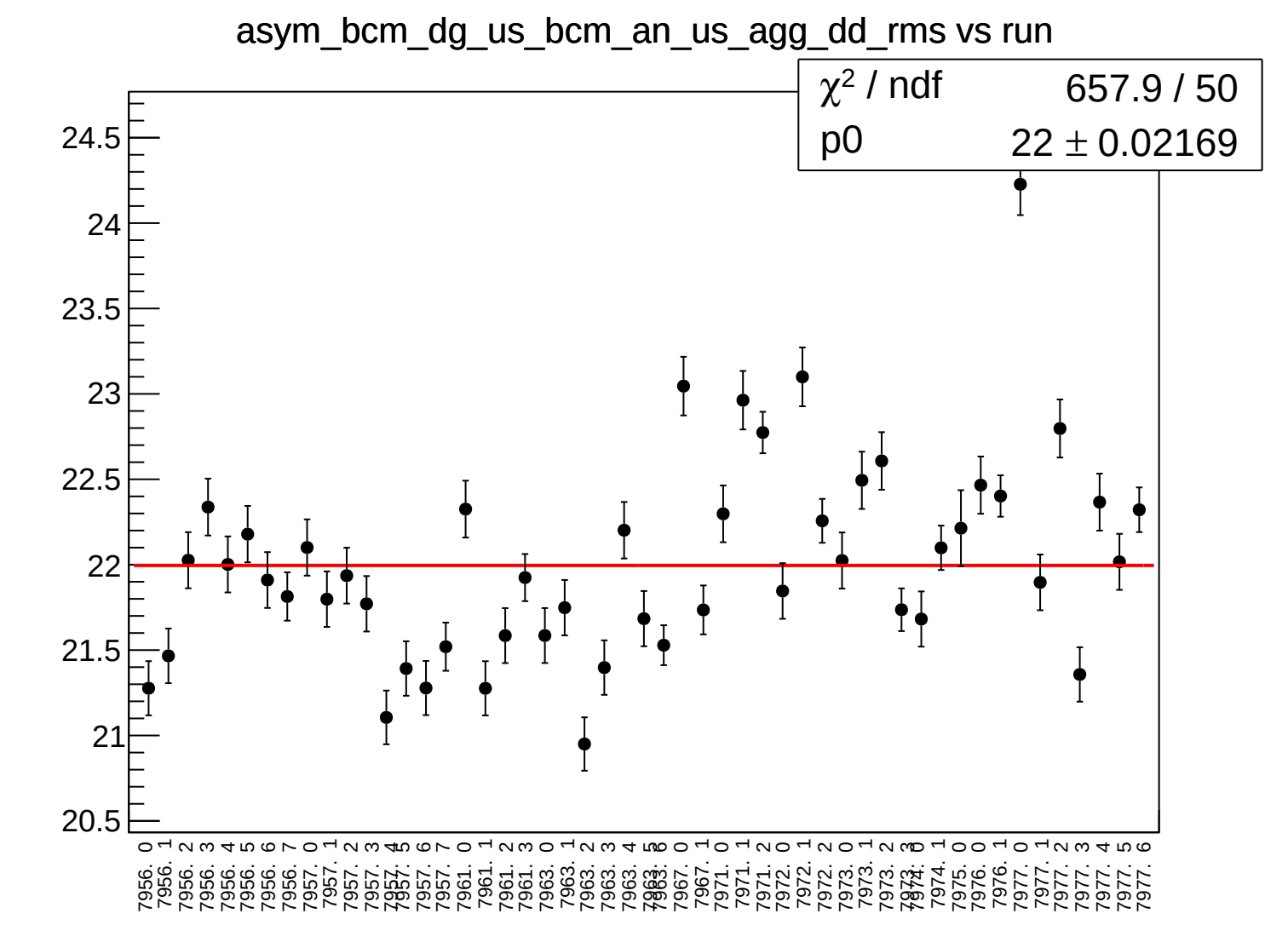
7977. 6


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 37.85 / 50
p0 −49.52 ± 30.67
pull
Entries 51
Mean 101.8
Std Dev 87.74


pull1D
Entries 51
Mean 0.0133
Std Dev 0.8613


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 657.9 / 50
p0 22 ± 0.02169
24.5
24
23.5
23
22.5
22
21.5
21
20.5
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
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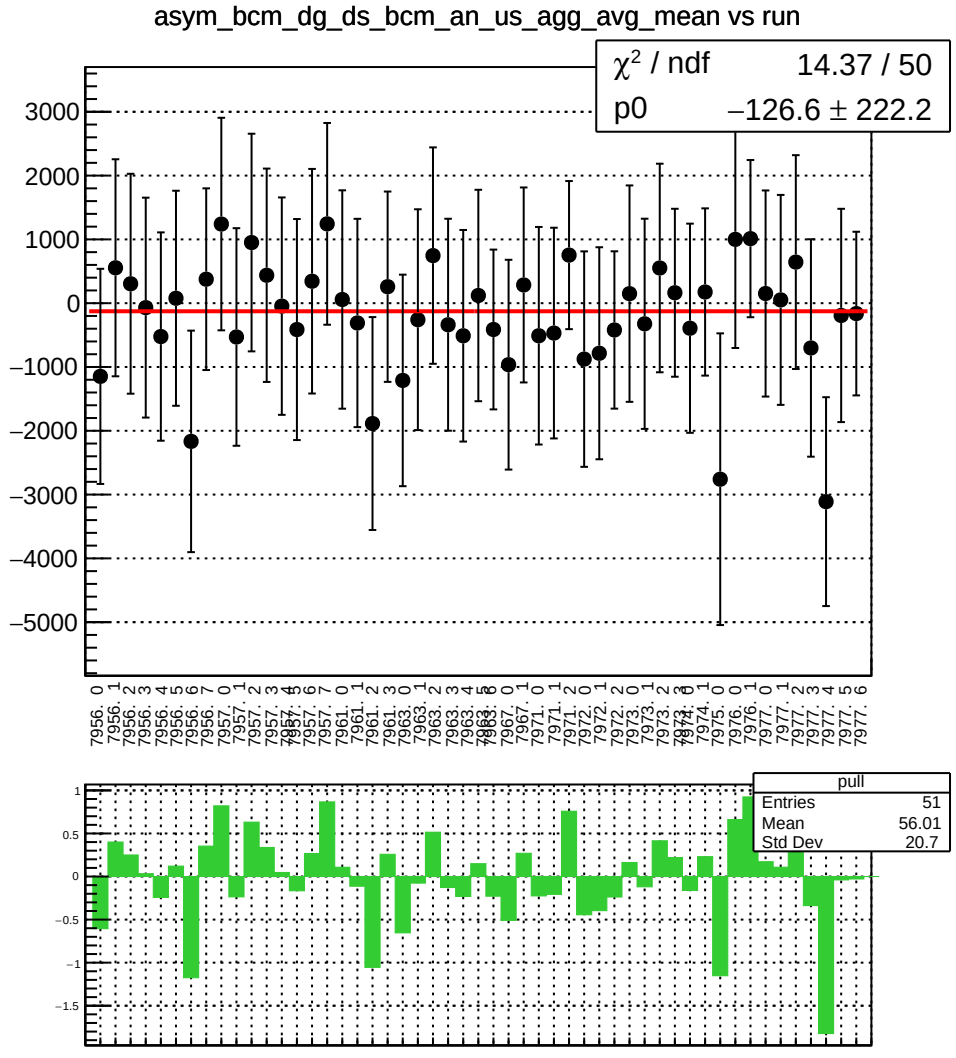
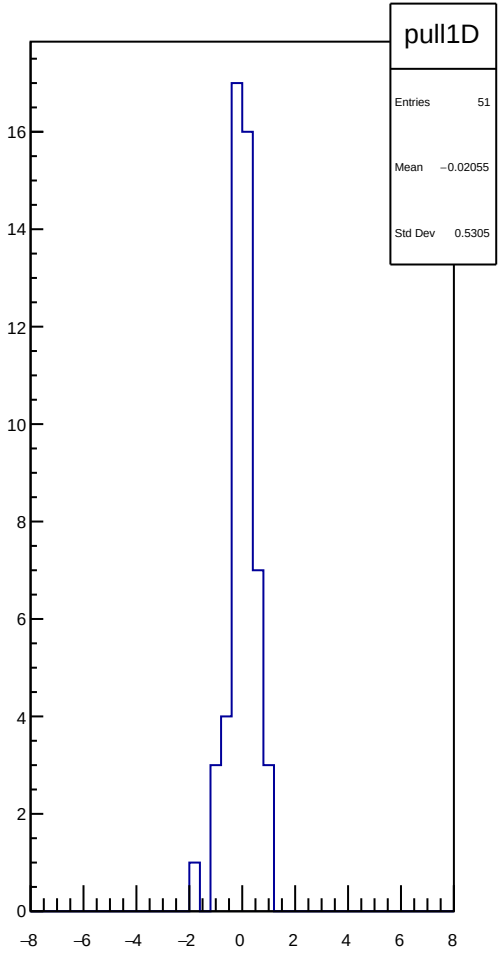
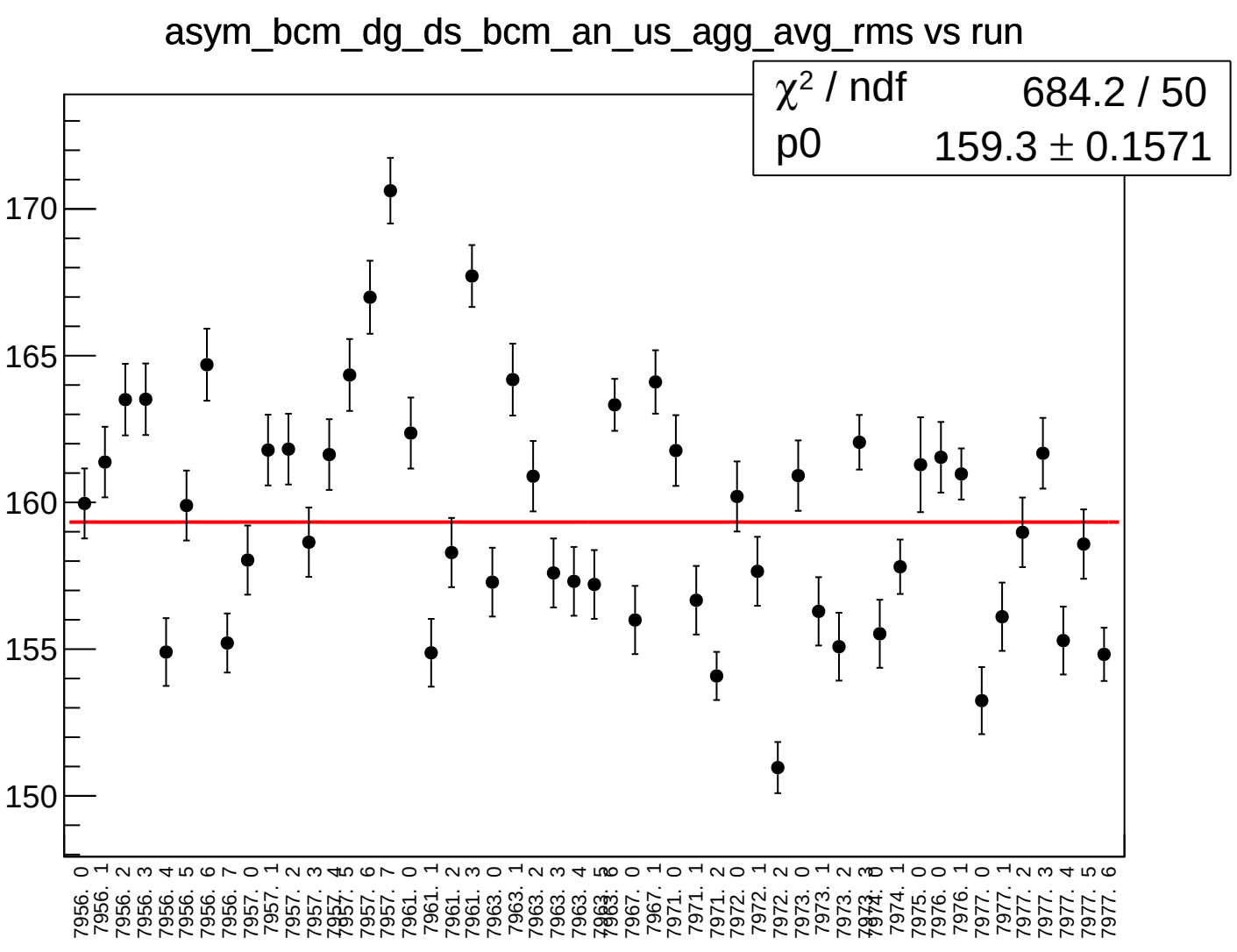
7977. 6


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.37 / 50
p0 −126.6 ± 222.2
pull
Entries 51
Mean 56.01
Std Dev 20.7


pull1D
Entries 51
Mean −0.02055
Std Dev 0.5305


asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 684.2 / 50
p0 159.3 ± 0.1571
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
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7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
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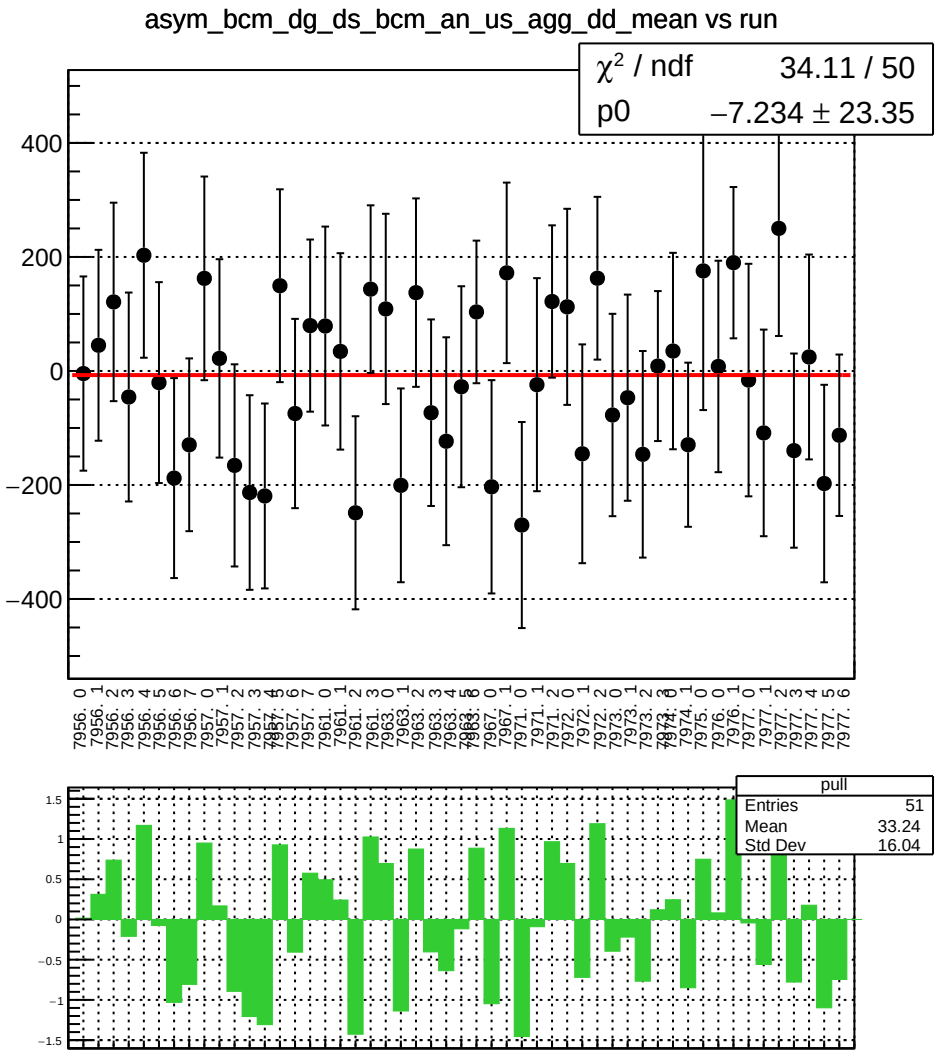
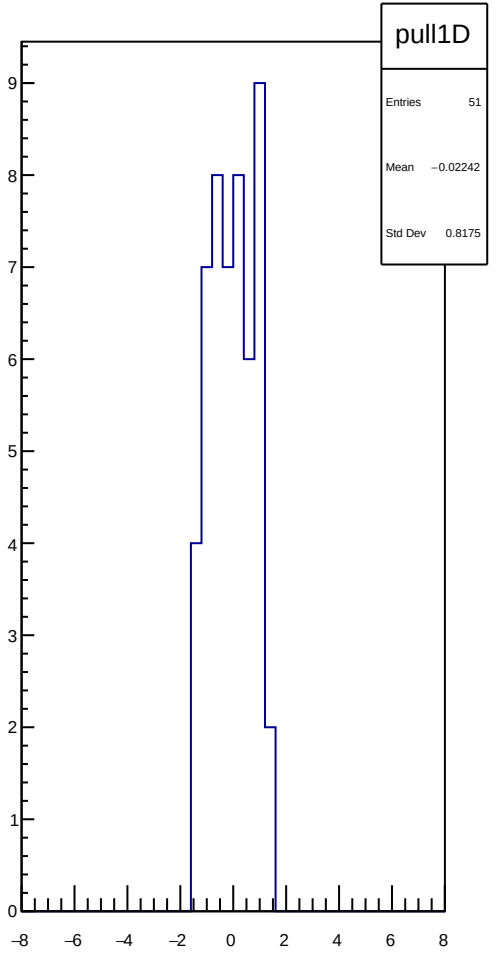
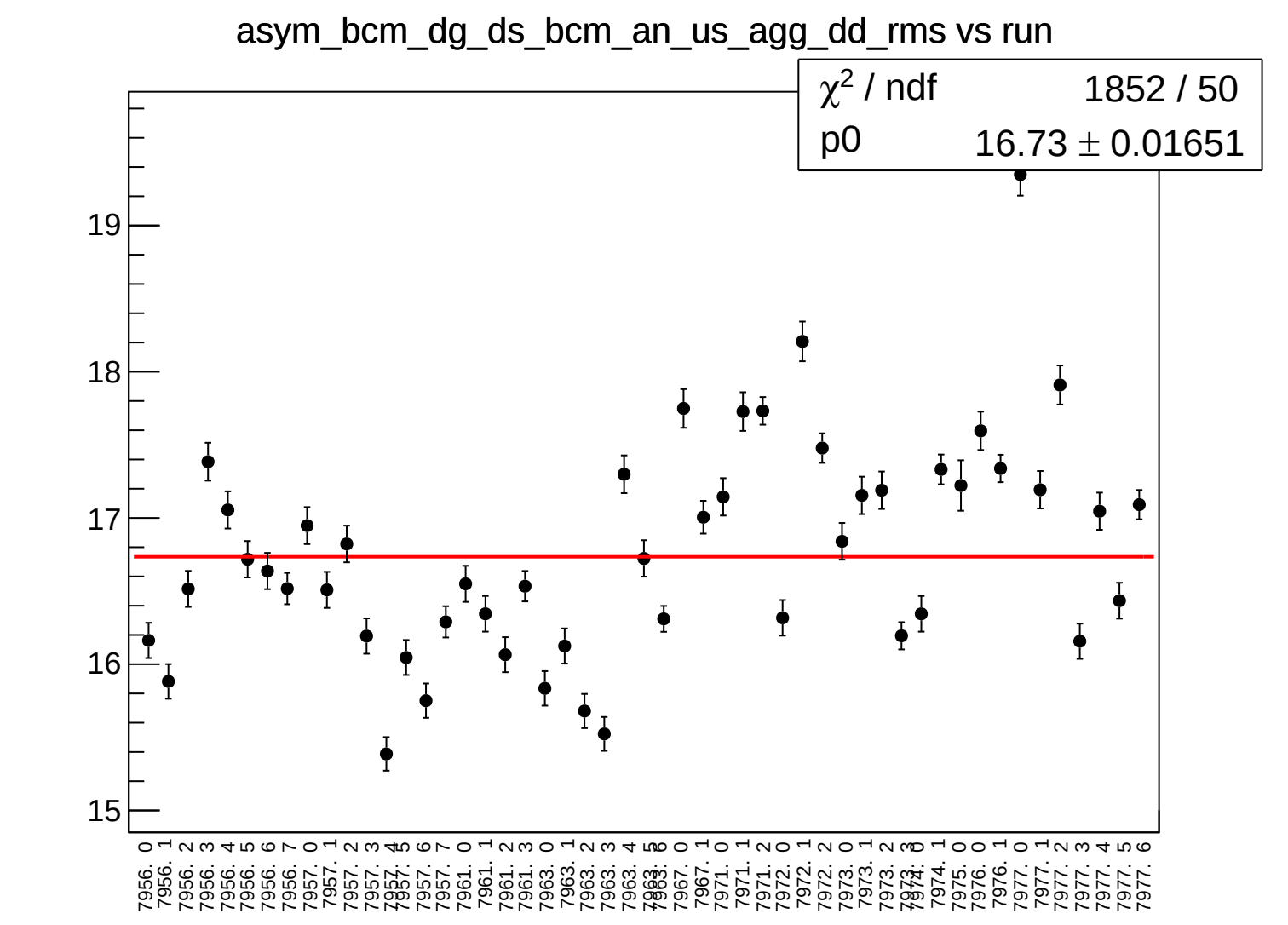
7977. 5
7977. 6


asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 34.11 / 50
p0 −7.234 ± 23.35
400
200
0
−200
−400
pull
Entries 51
Mean 33.24
Std Dev 16.04
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.02242
Std Dev 0.8175
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1852 / 50
p0 16.73 ± 0.01651
19
18
17
16
15
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
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7973. 1
7973. 2
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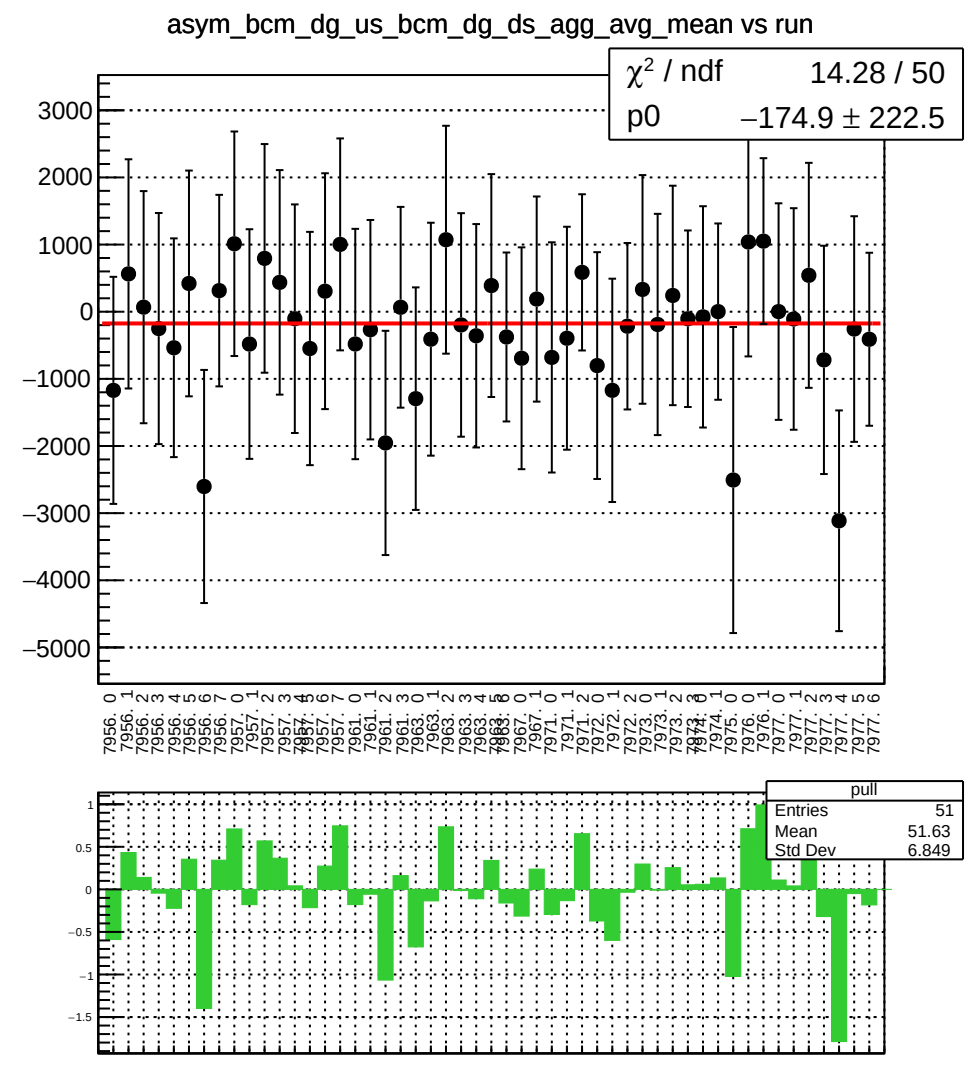
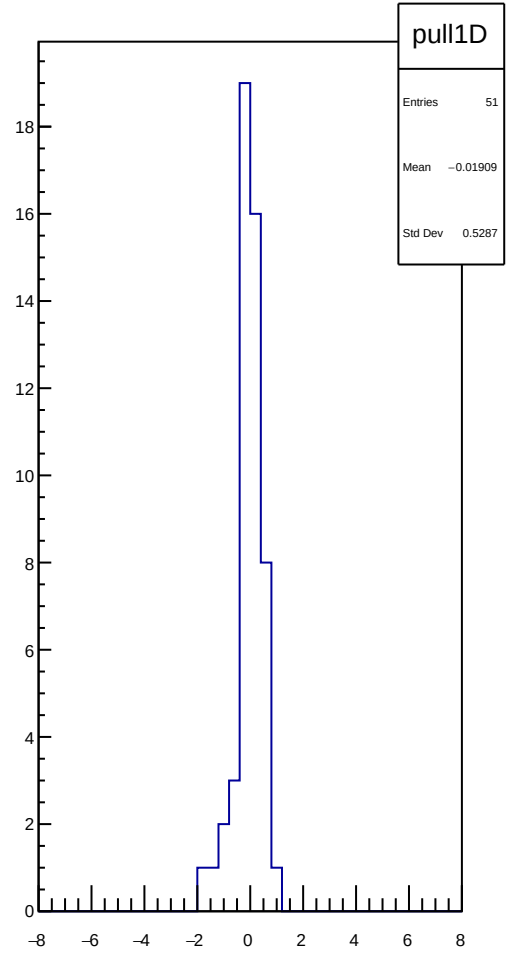
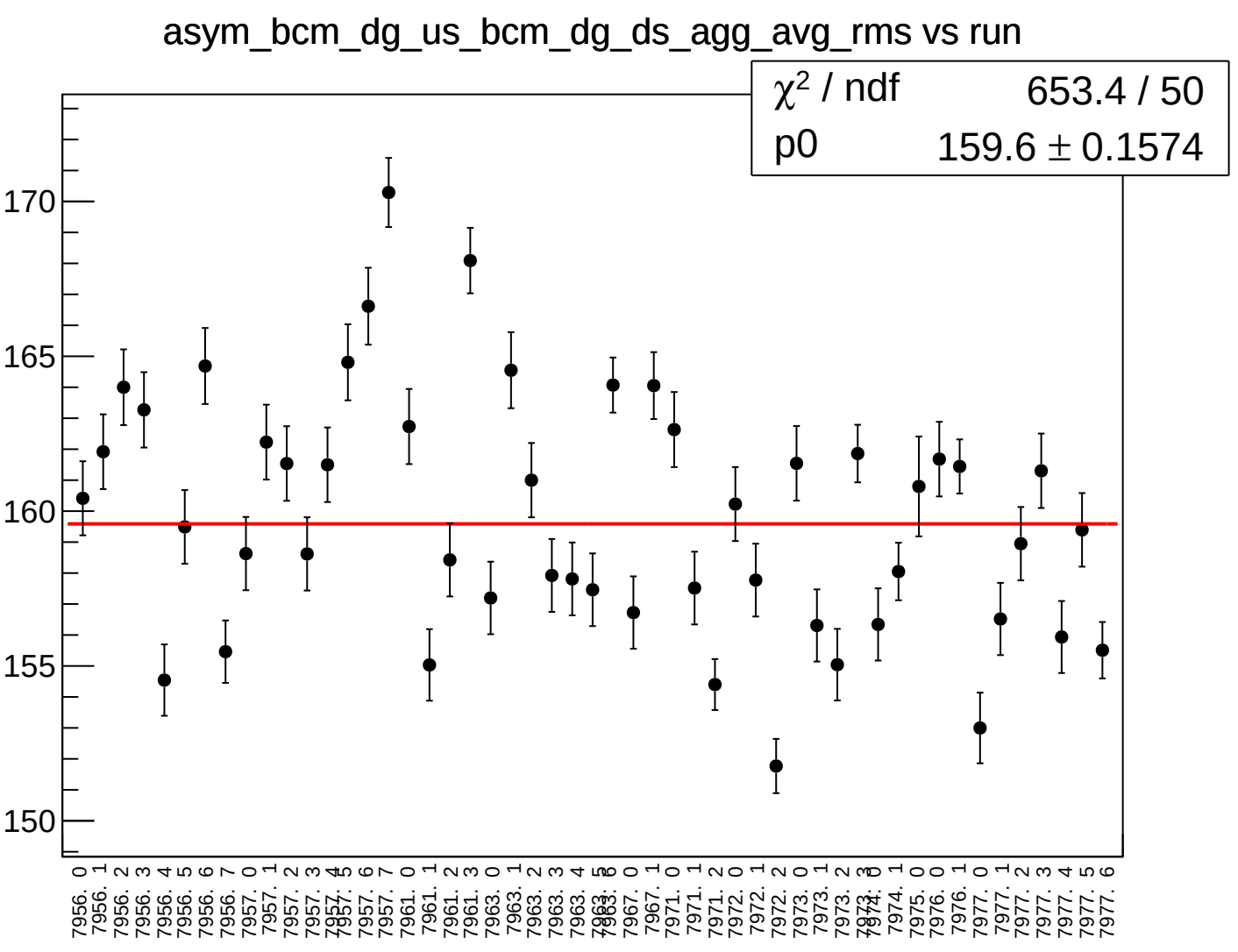
7977. 5
7977. 6


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.28 / 50
p0 −174.9 ± 222.5
pull
Entries 51
Mean 51.63
Std Dev 6.849


pull1D
Entries 51
Mean −0.01909
Std Dev 0.5287


asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 653.4 / 50
p0 159.6 ± 0.1574
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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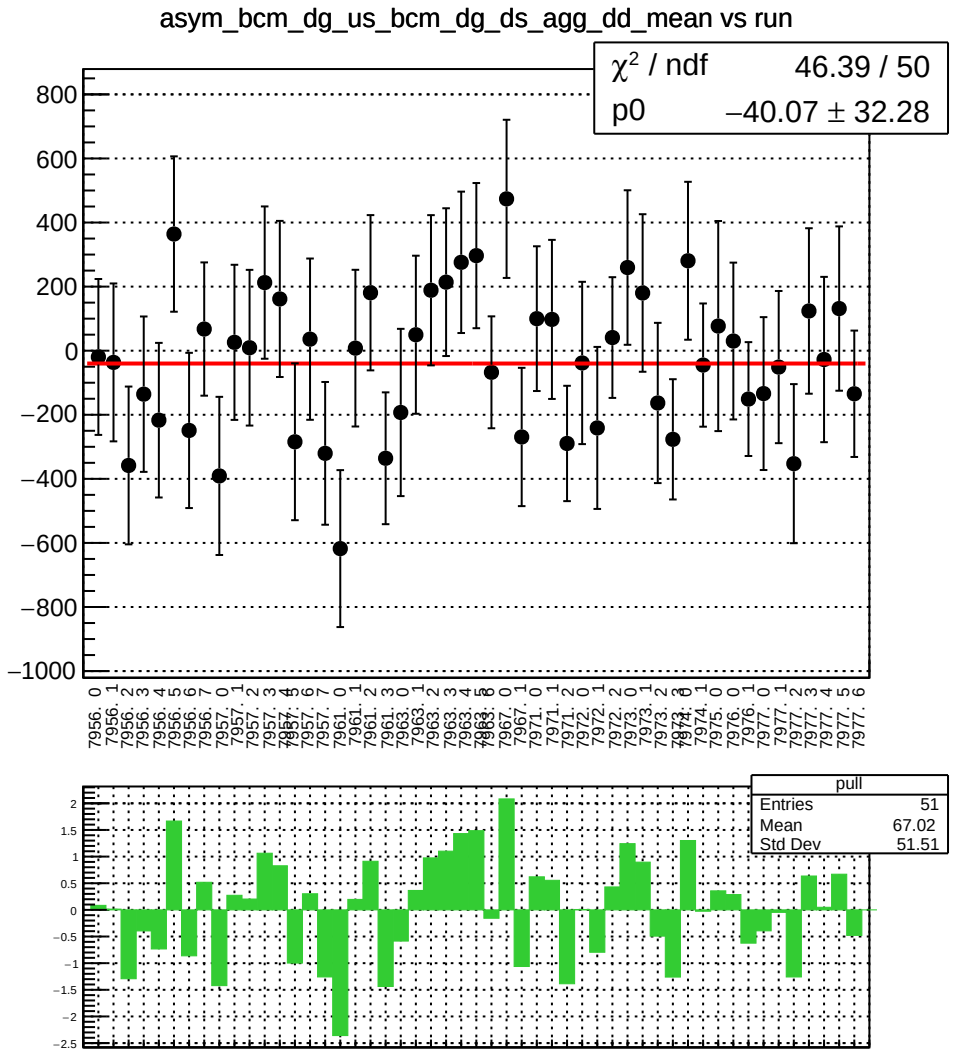
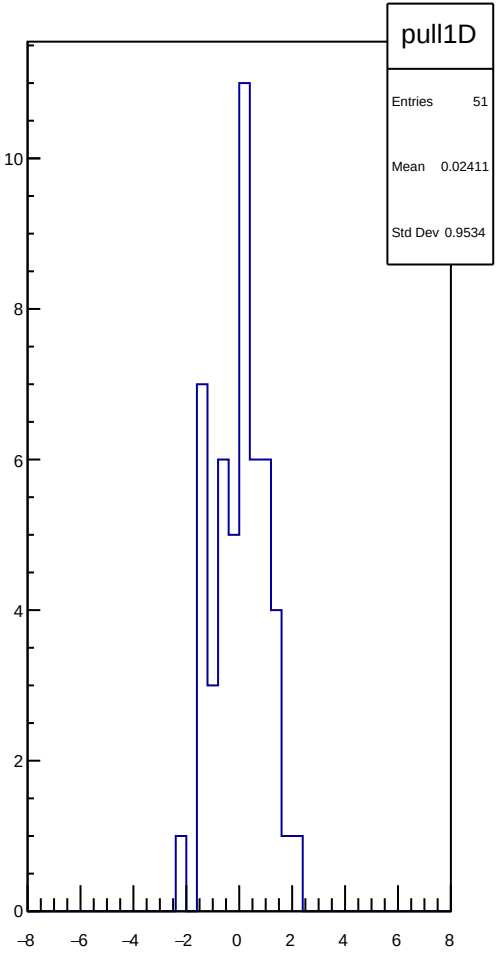
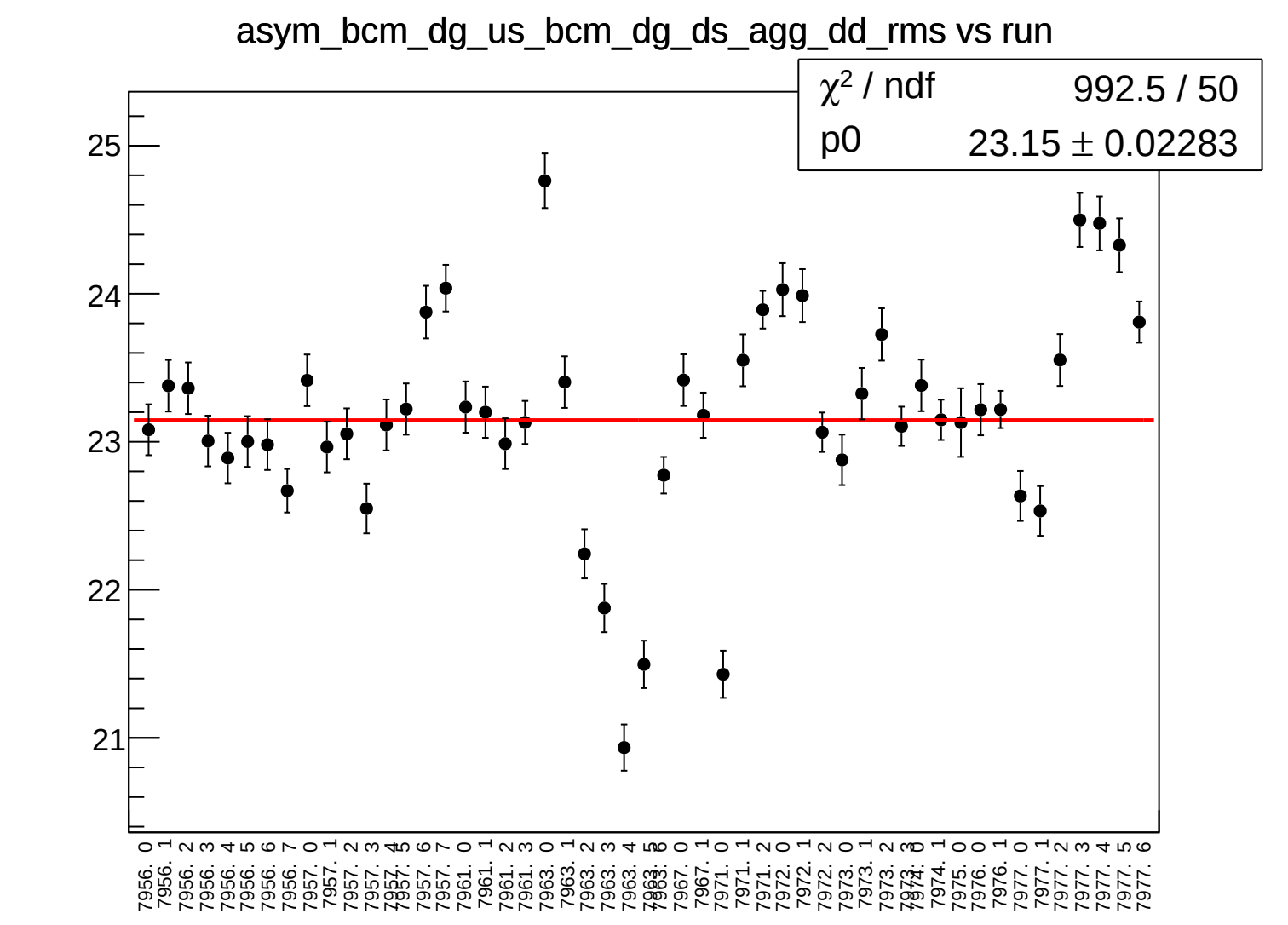
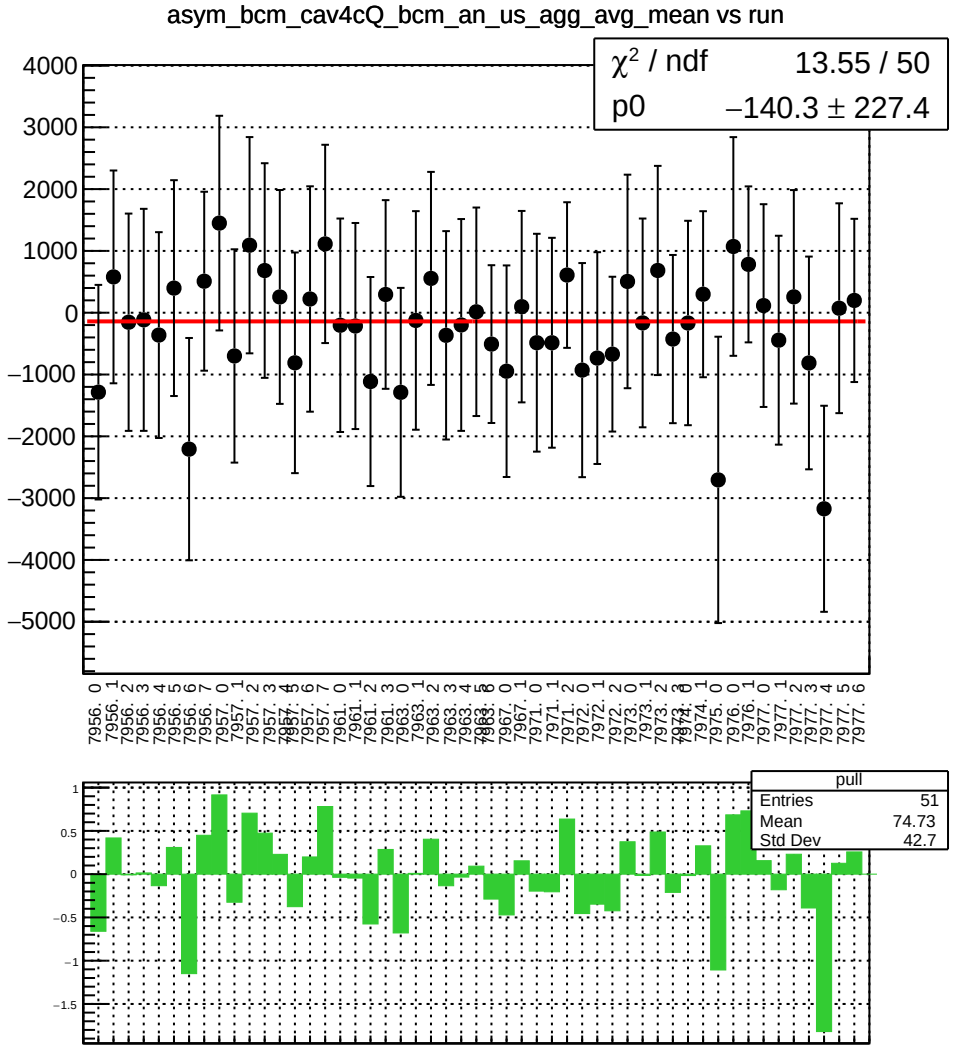
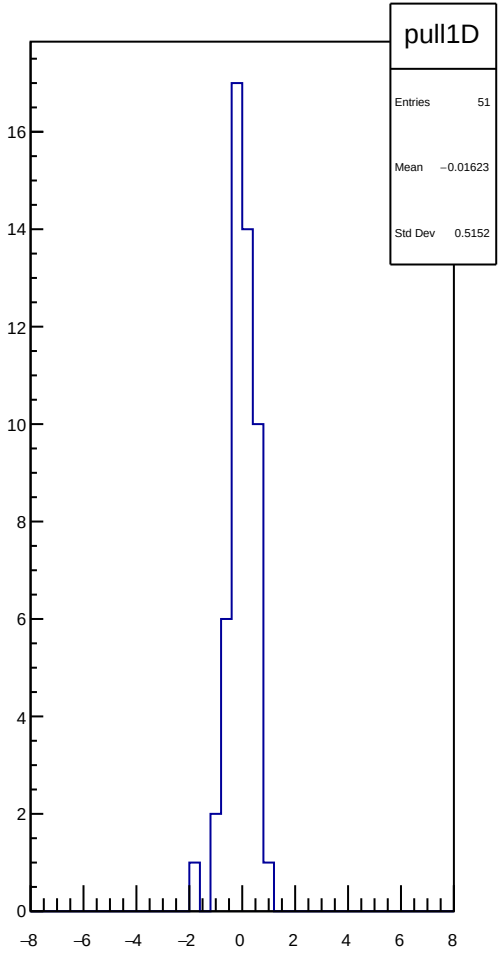
7977. 6

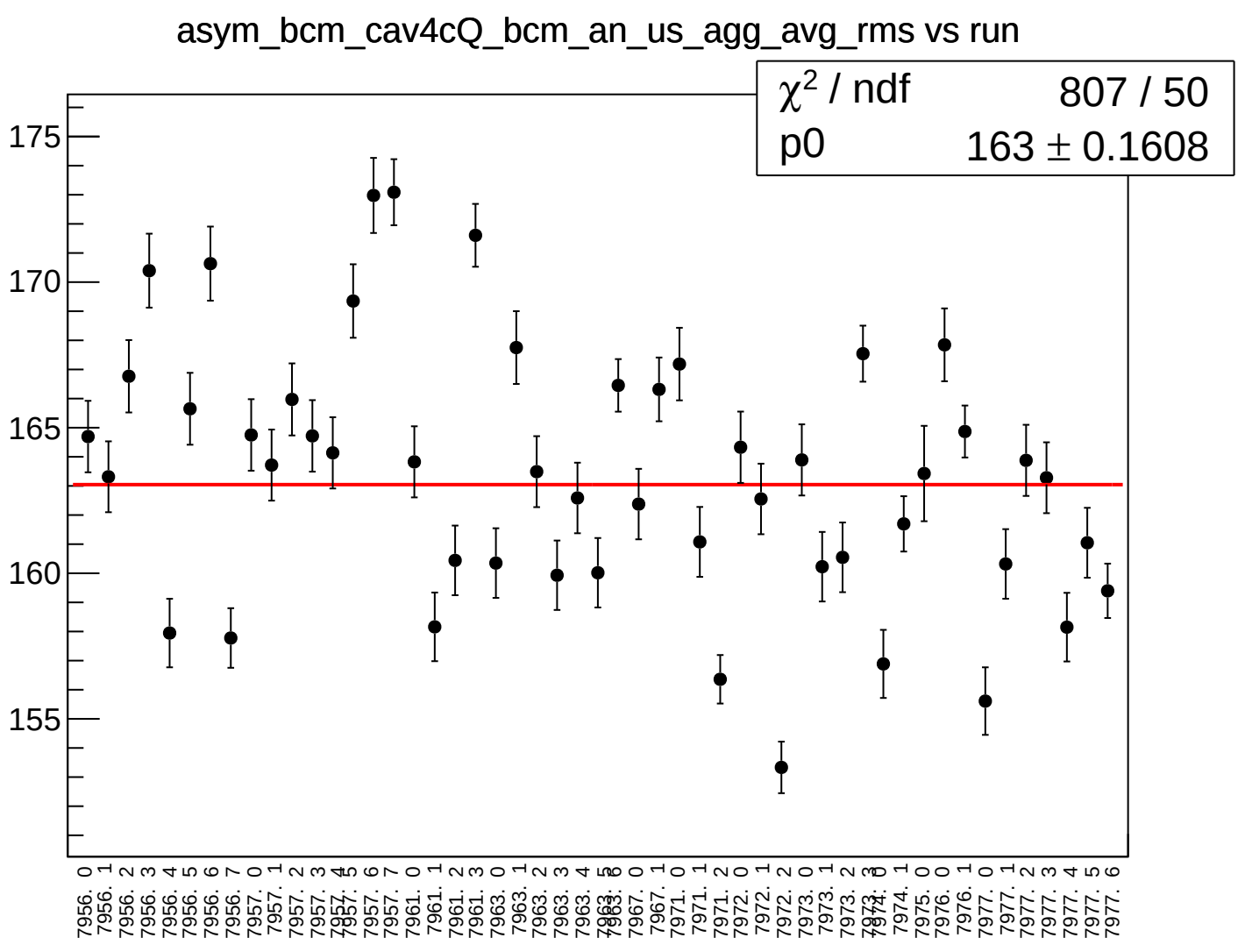

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.39 / 50
p0 −40.07 ± 32.28
pull
Entries 51
Mean 67.02
Std Dev 51.51


pull1D
Entries 51
Mean 0.02411
Std Dev 0.9534


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 992.5 / 50
p0 23.15 ± 0.02283
25
24
23
22
21
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.55 / 50
p0 −140.3 ± 227.4
pull
Entries 51
Mean 74.73
Std Dev 42.7


pull1D
Entries 51
Mean −0.01623
Std Dev 0.5152


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 807 / 50
p0 163 ± 0.1608
175
170
165
160
155
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
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7961. 2
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7963. 0
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7963. 2
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7963. 4
7967. 0
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7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
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7973. 0
7973. 1
7973. 2
7974. 1
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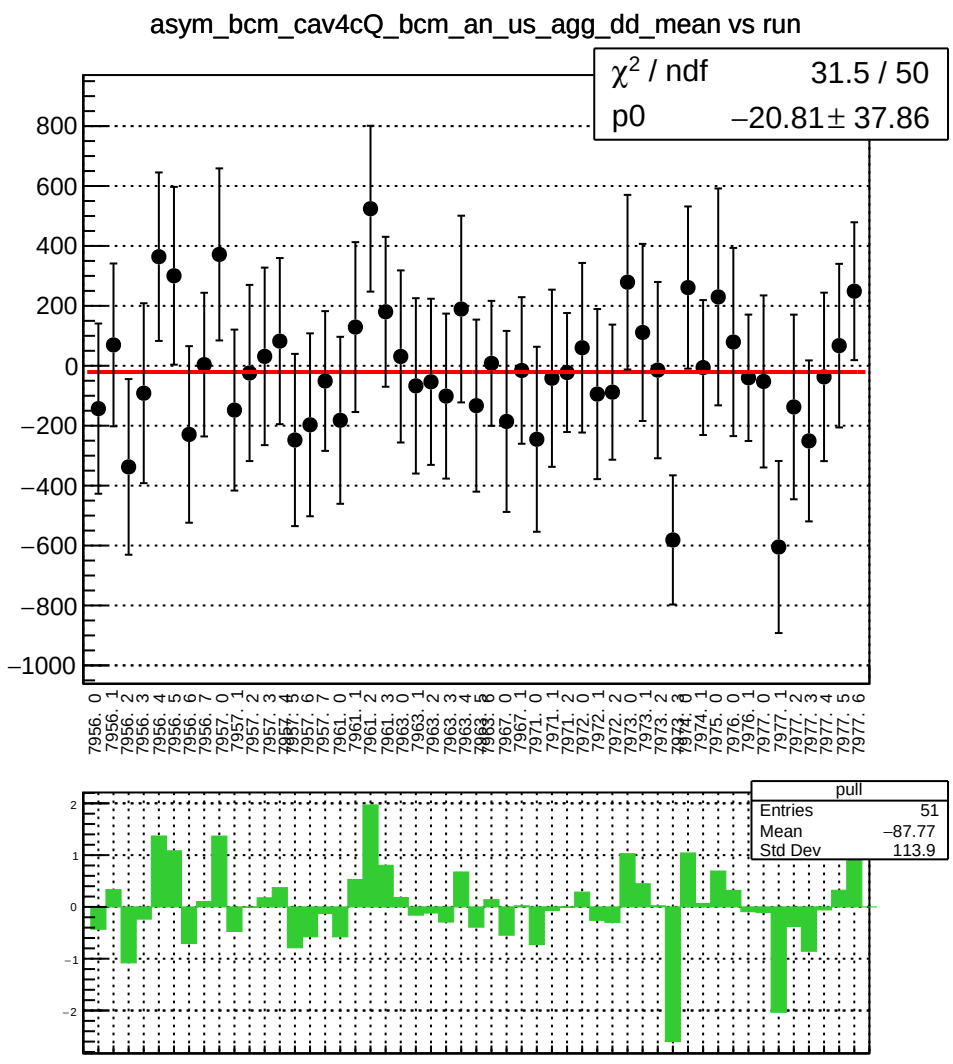
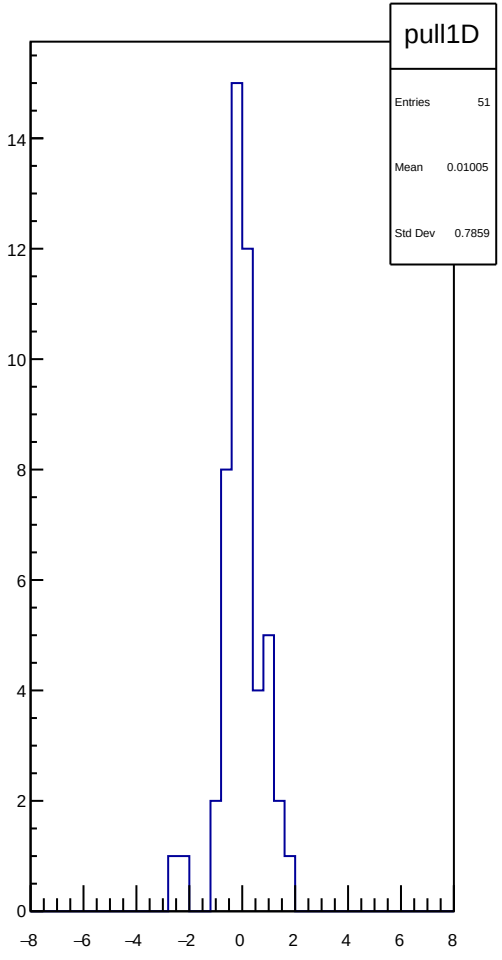
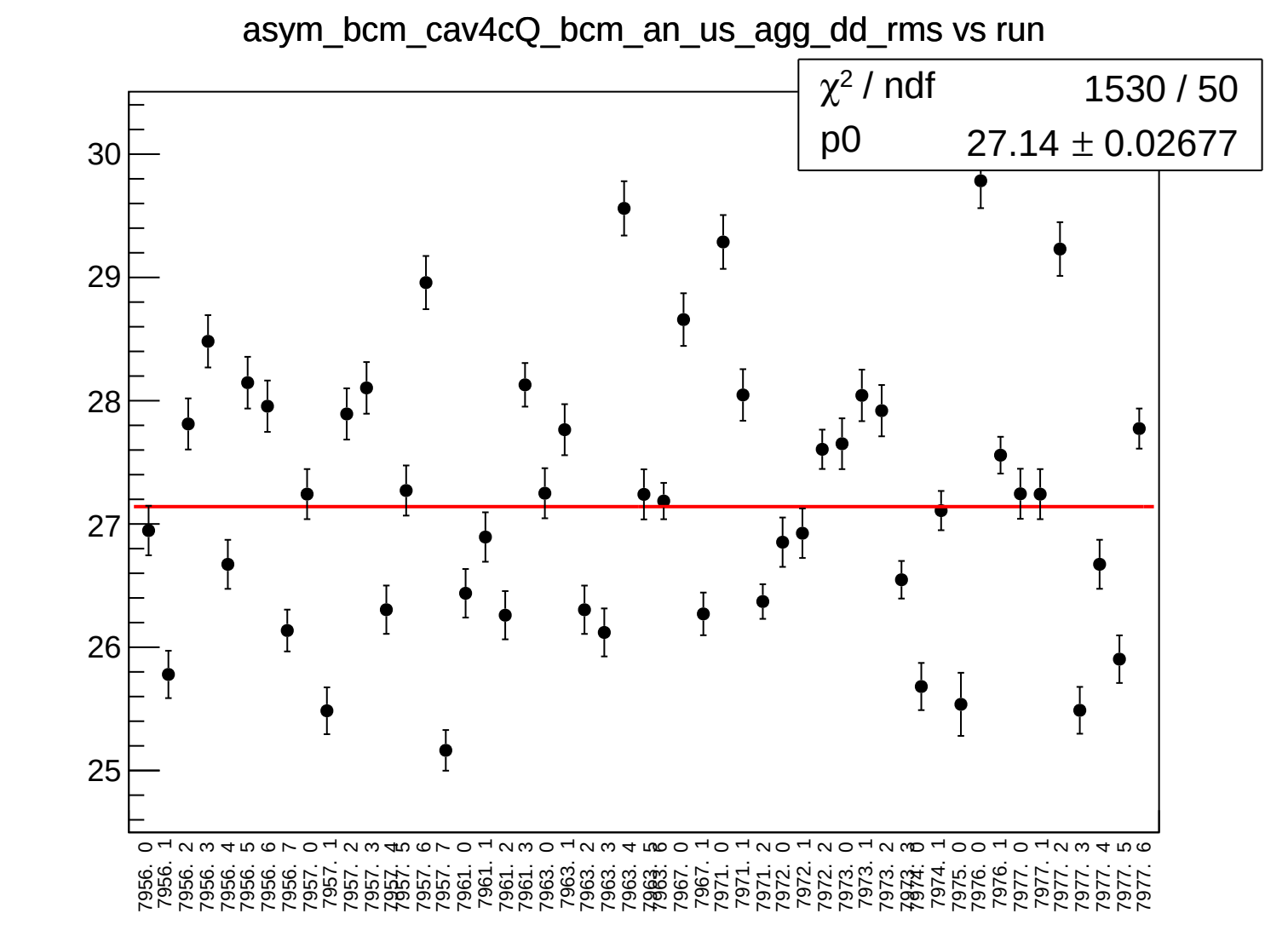
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 31.5 / 50
p0 −20.81 ± 37.86
pull
Entries 51
Mean −87.77
Std Dev 113.9


pull1D
Entries 51
Mean 0.01005
Std Dev 0.7859


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1530 / 50
p0 27.14 ± 0.02677
30
29
28
27
26
25
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
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7957. 5
7957. 6
7957. 7
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7961. 1
7961. 2
7961. 3
7963. 0
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7971. 2
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7973. 0
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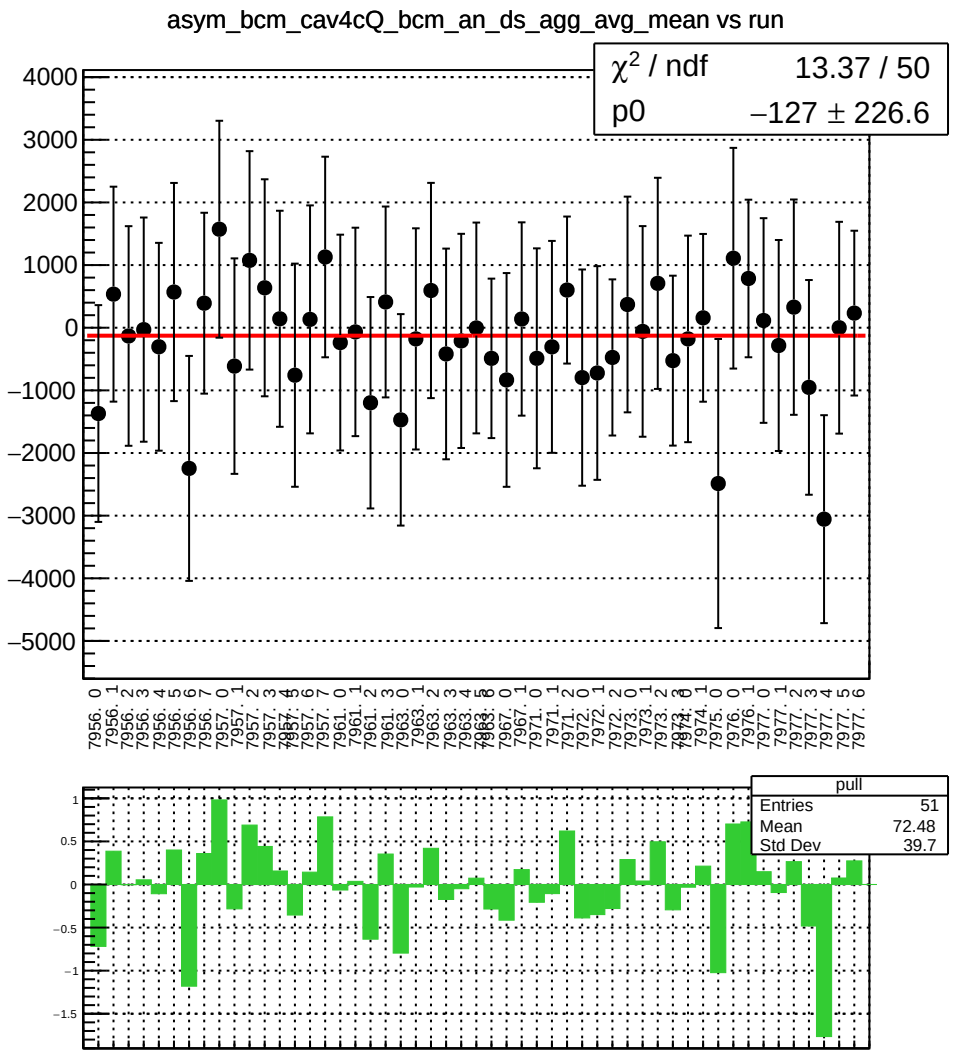
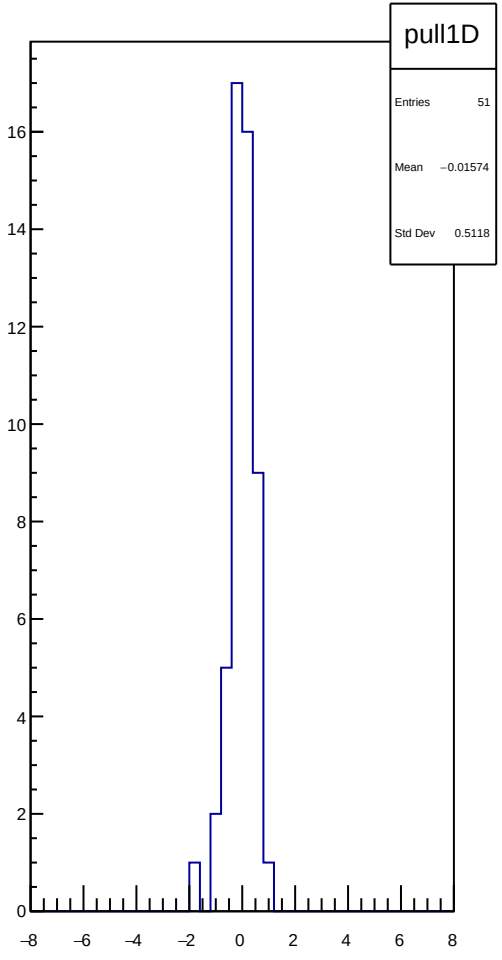
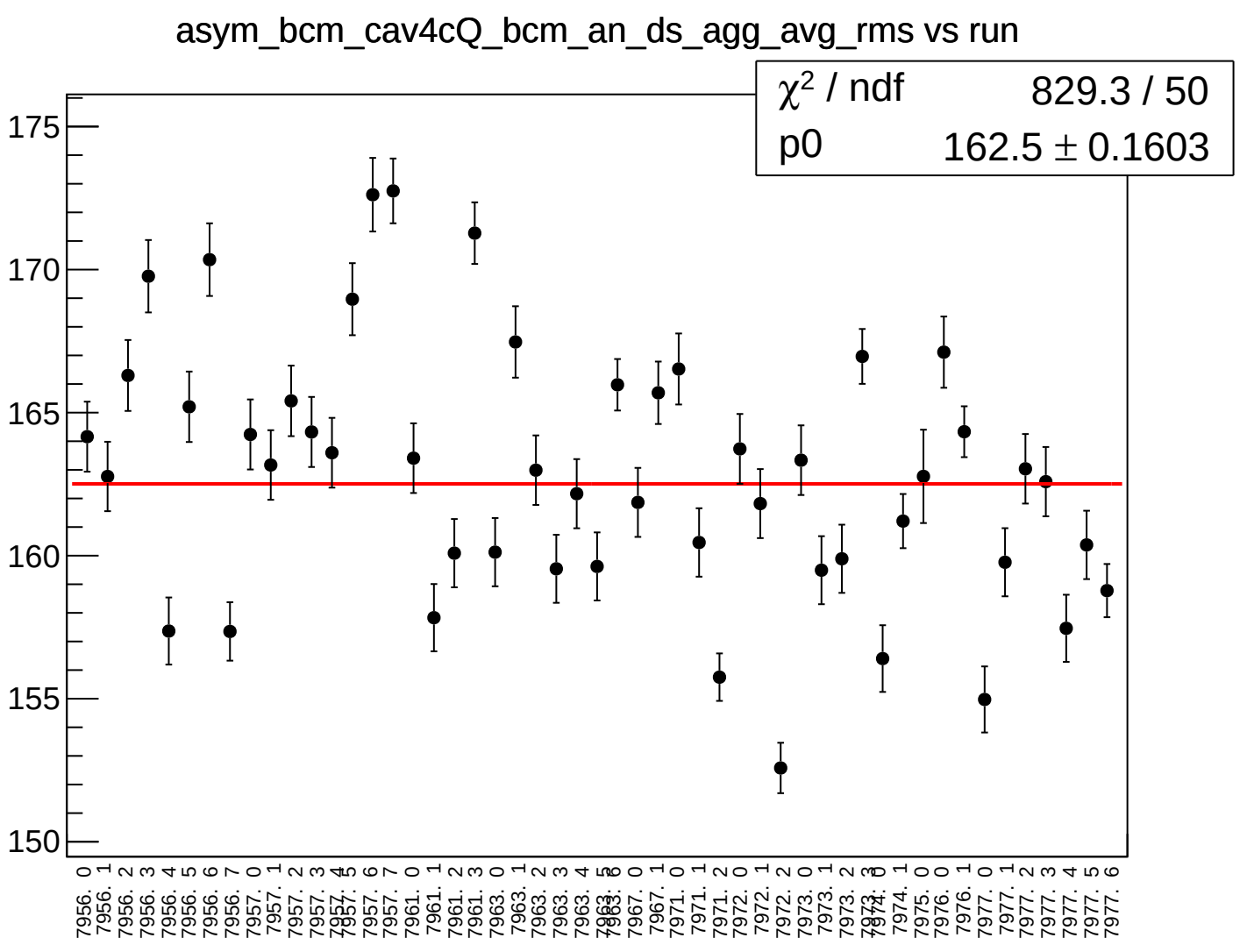
7977. 6


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.37 / 50
p0 −127 ± 226.6
pull
Entries 51
Mean 72.48
Std Dev 39.7


pull1D
Entries 51
Mean −0.01574
Std Dev 0.5118


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 829.3 / 50
p0 162.5 ± 0.1603
175
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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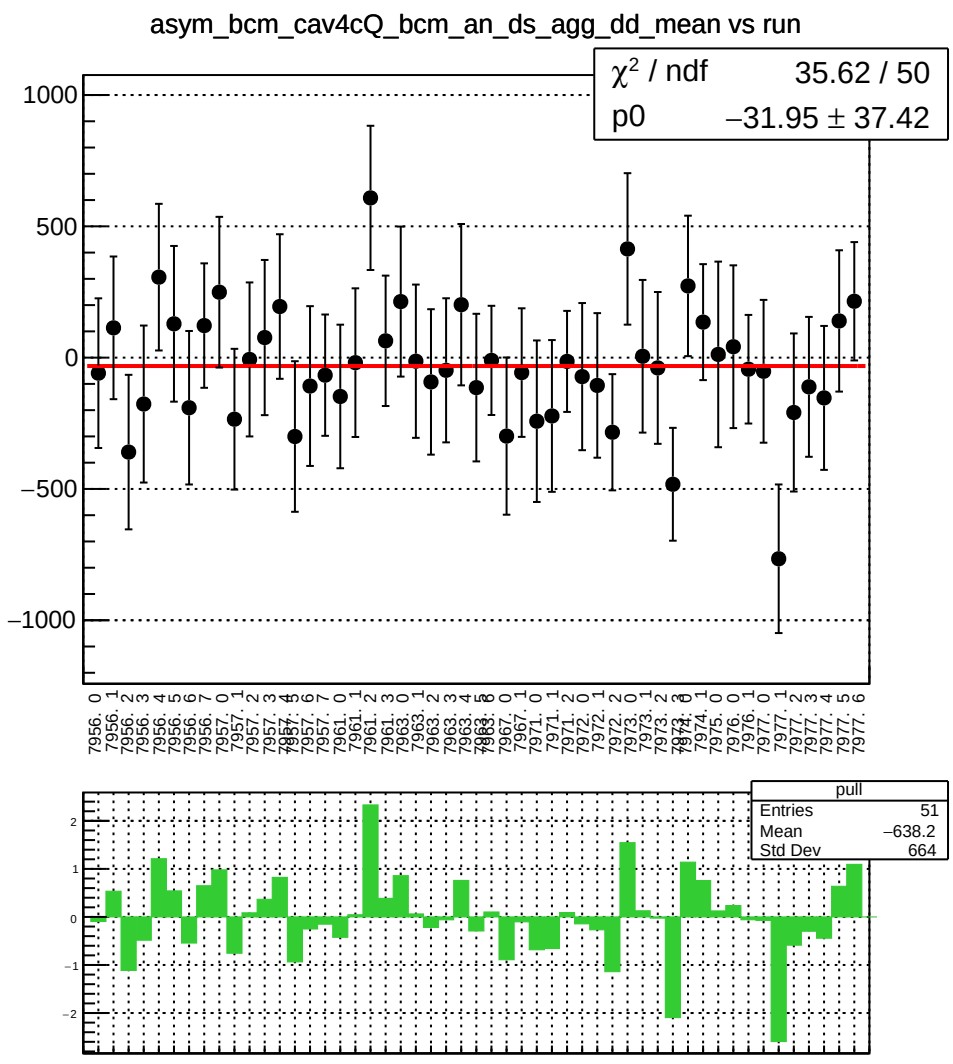
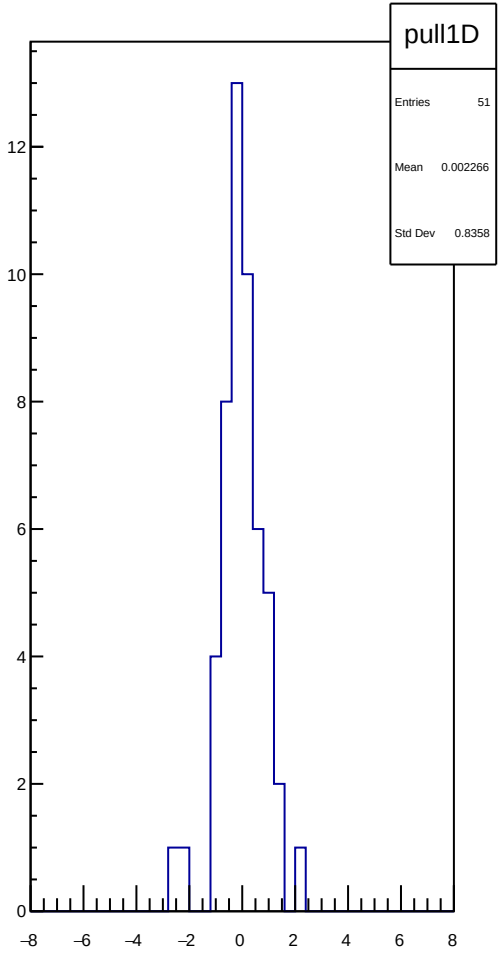
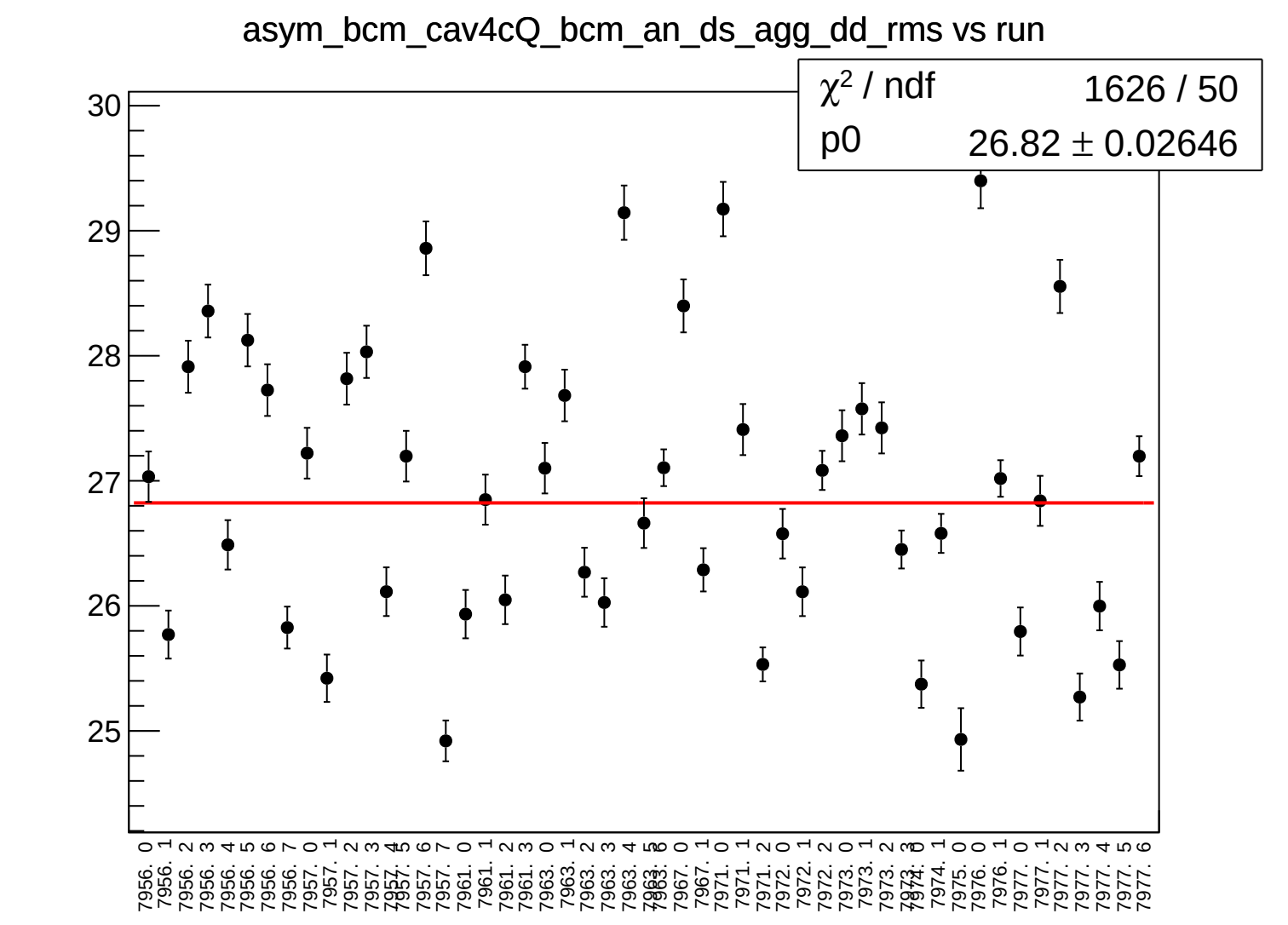
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 35.62 / 50
p0 −31.95 ± 37.42
1000
500
0
−500
−1000
pull
Entries 51
Mean −638.2
Std Dev 664
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.002266
Std Dev 0.8358
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1626 / 50
p0 26.82 ± 0.02646
30
29
28
27
26
25
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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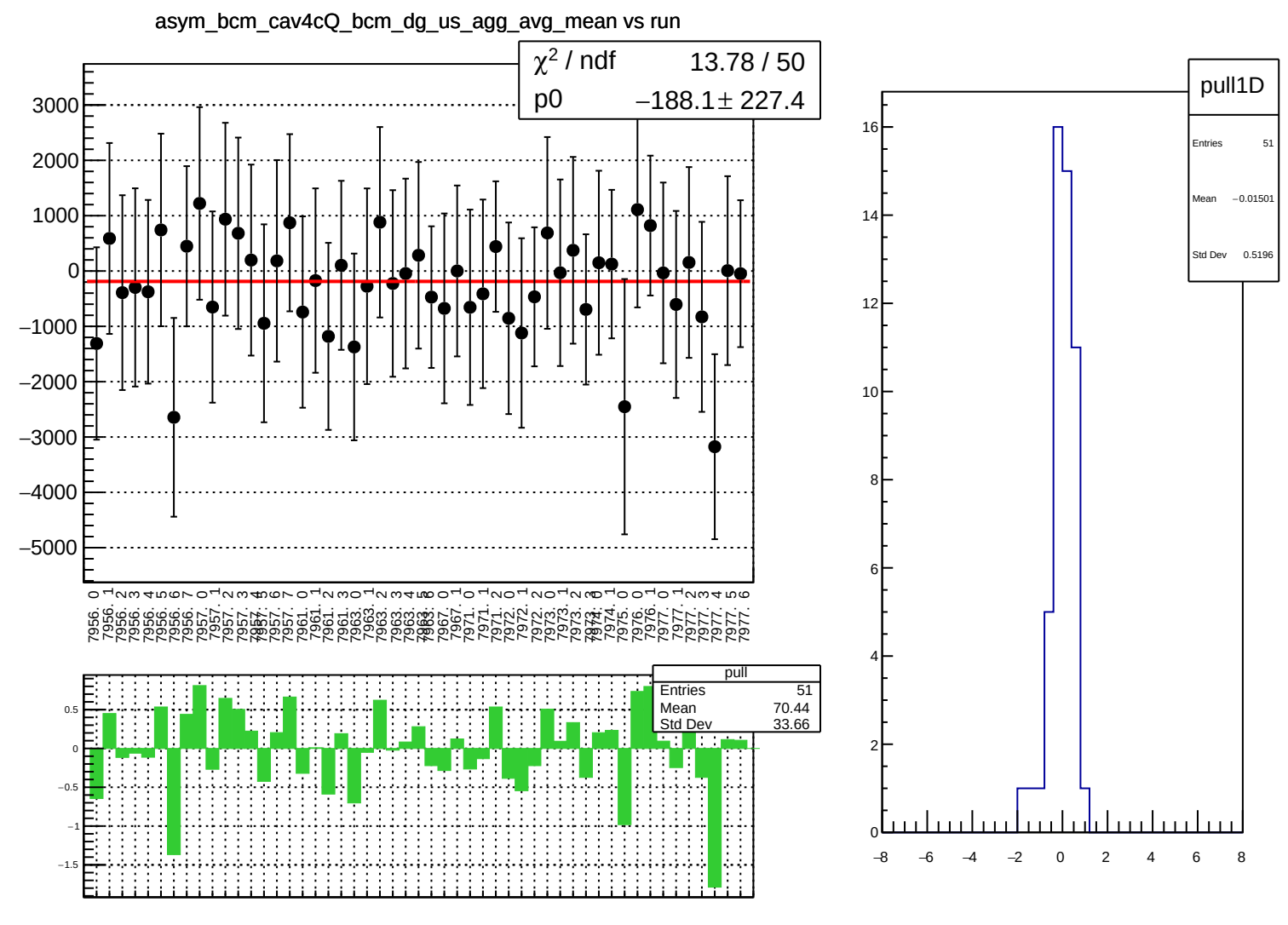
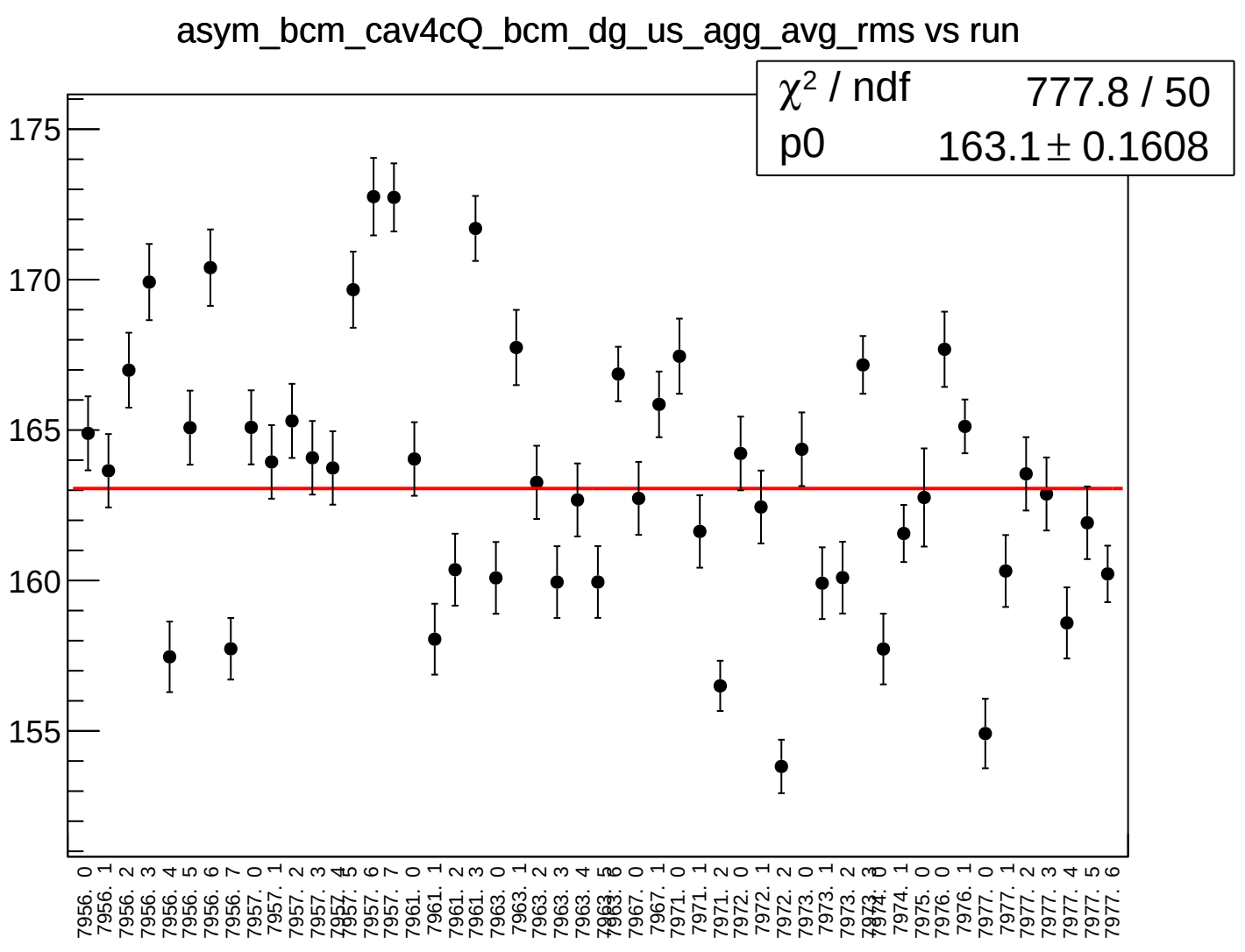
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 13.78 / 50
p0 −188.1± 227.4
pull
Entries 51
Mean 70.44
Std Dev 33.66
pull1D
Entries 51
Mean −0.01501
Std Dev 0.5196


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 777.8 / 50
p0 163.1 ± 0.1608
175
170
165
160
155
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
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7977. 2
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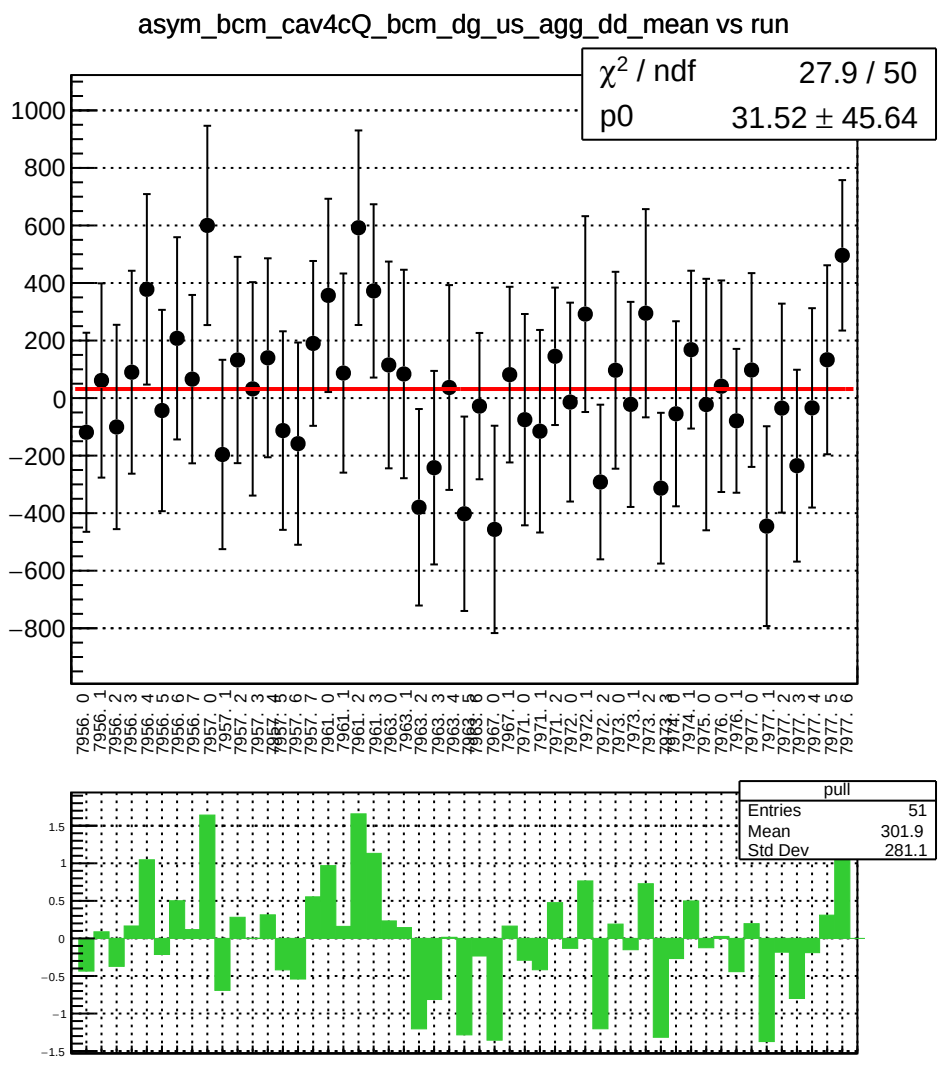
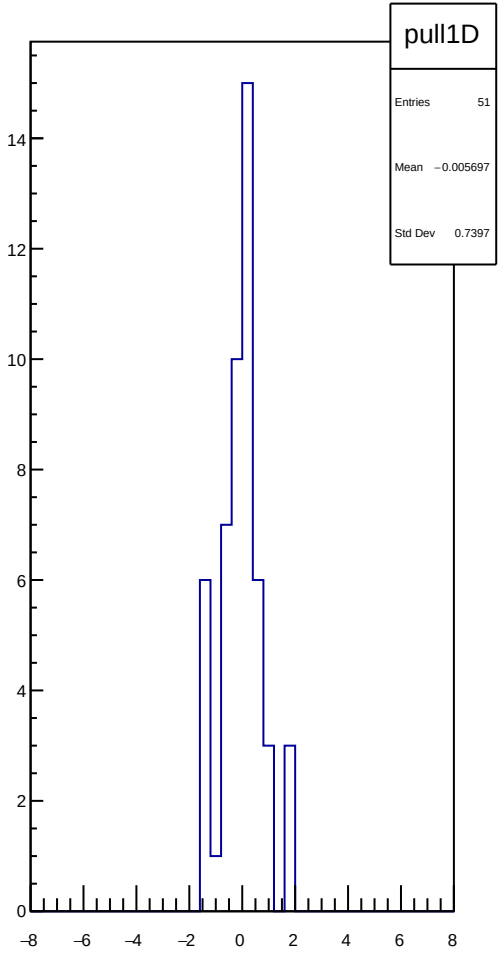
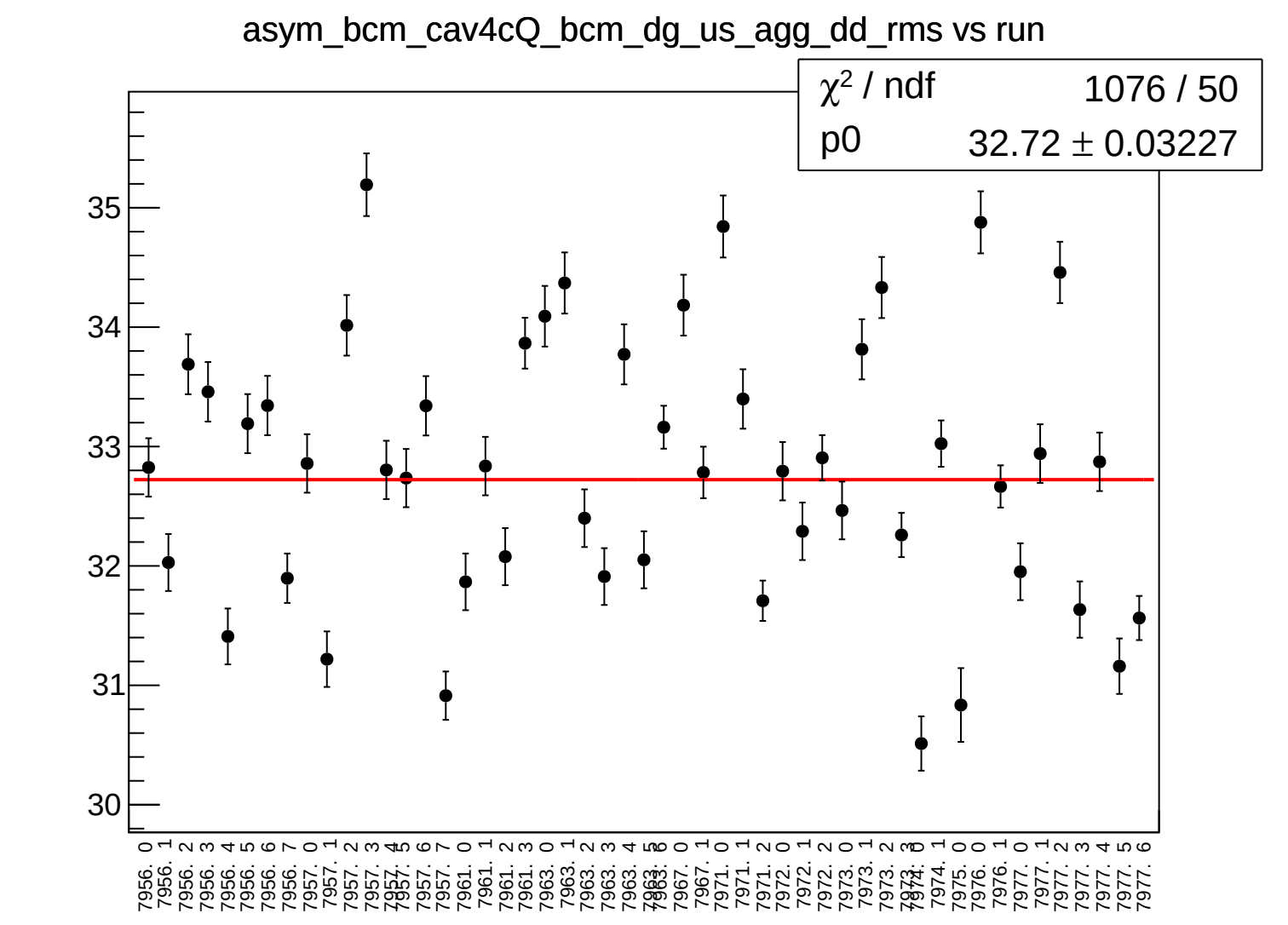
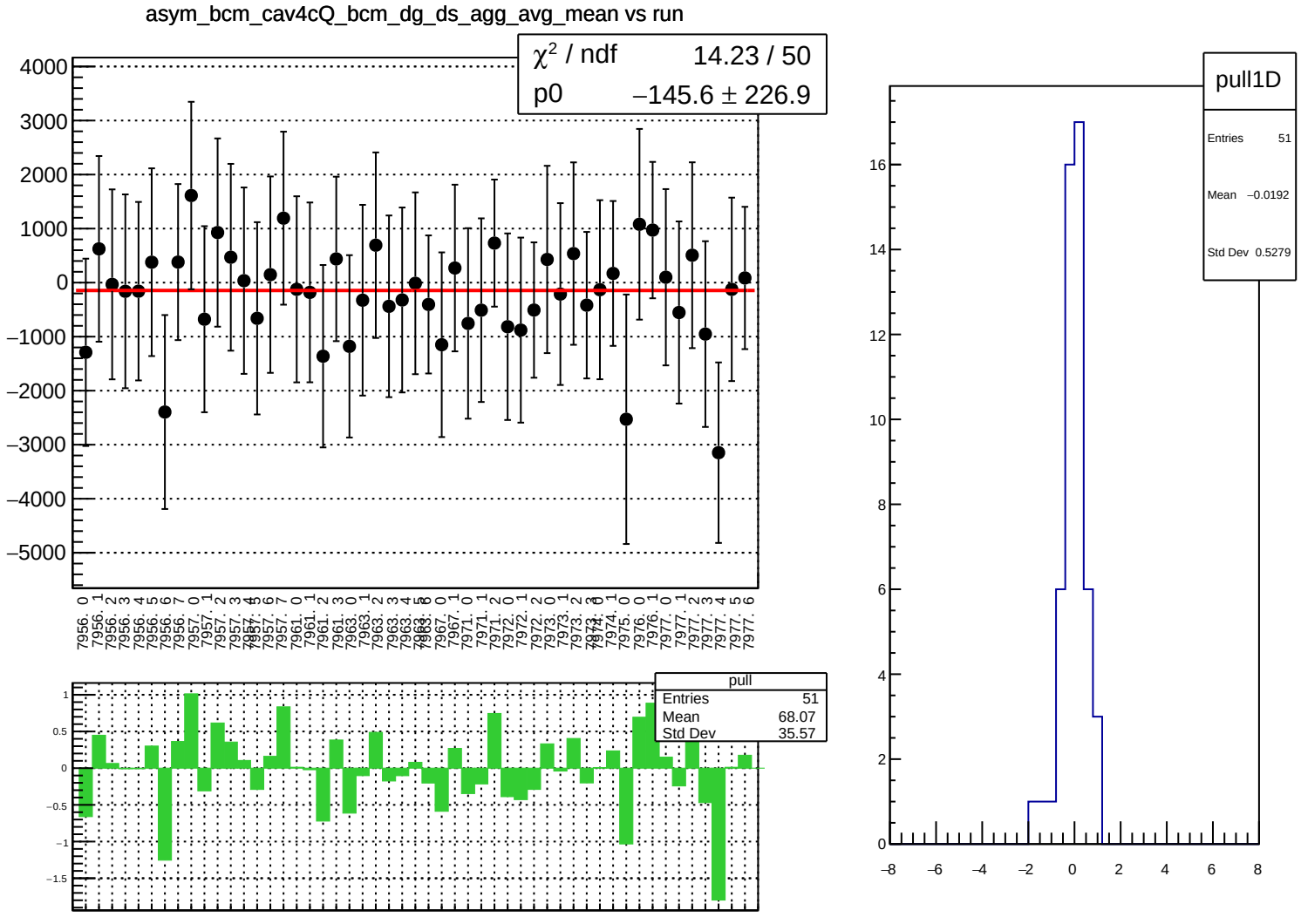
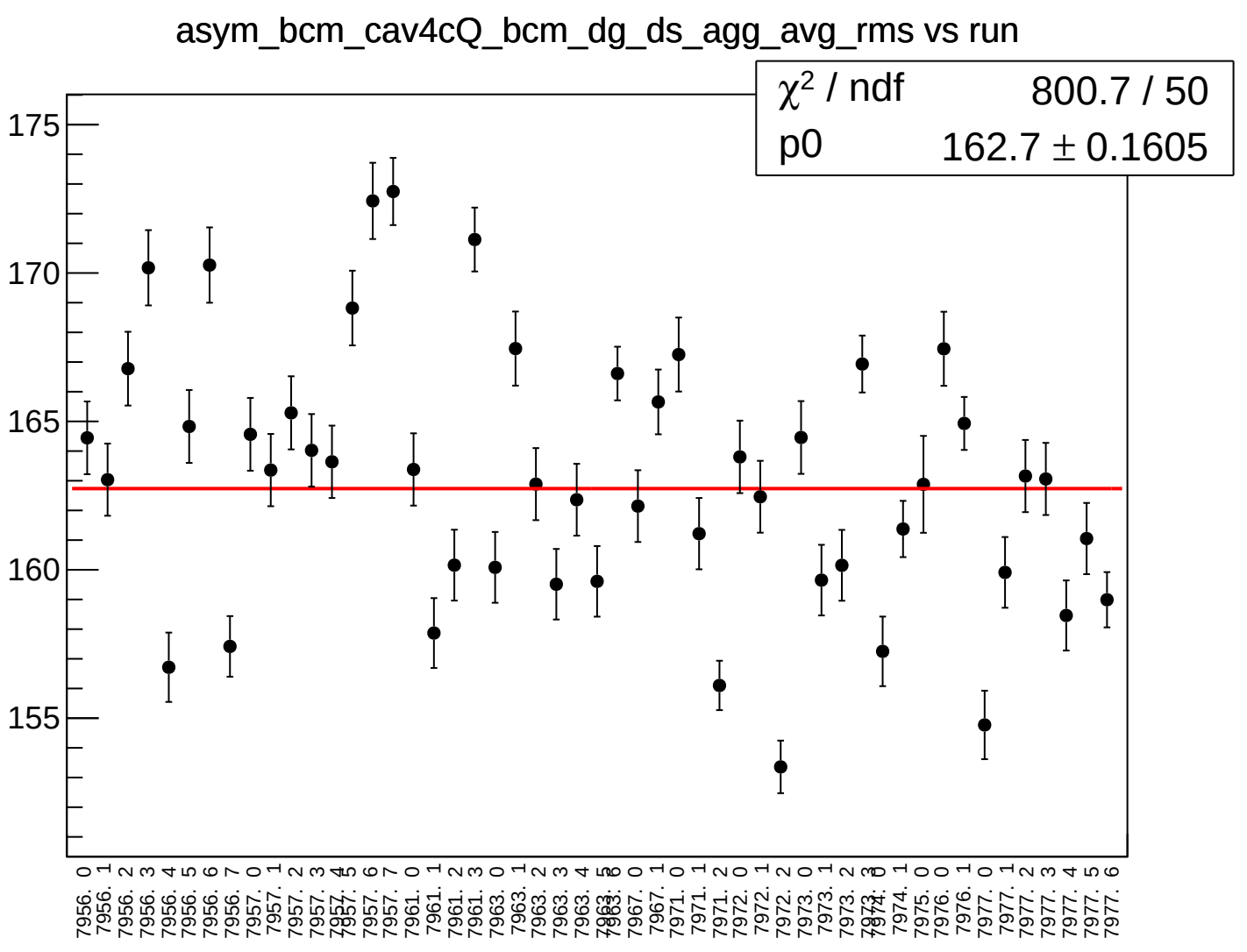
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 27.9 / 50
p0 31.52 ± 45.64
pull
Entries 51
Mean 301.9
Std Dev 281.1


pull1D
Entries 51
Mean −0.005697
Std Dev 0.7397


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1076 / 50
p0 32.72 ± 0.03227
35
34
33
32
31
30
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.23 / 50
p0 −145.6 ± 226.9
pull
Entries 51
Mean 68.07
Std Dev 35.57
pull1D
Entries 51
Mean −0.0192
Std Dev 0.5279


asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 800.7 / 50
p0 162.7 ± 0.1605
175
170
165
160
155
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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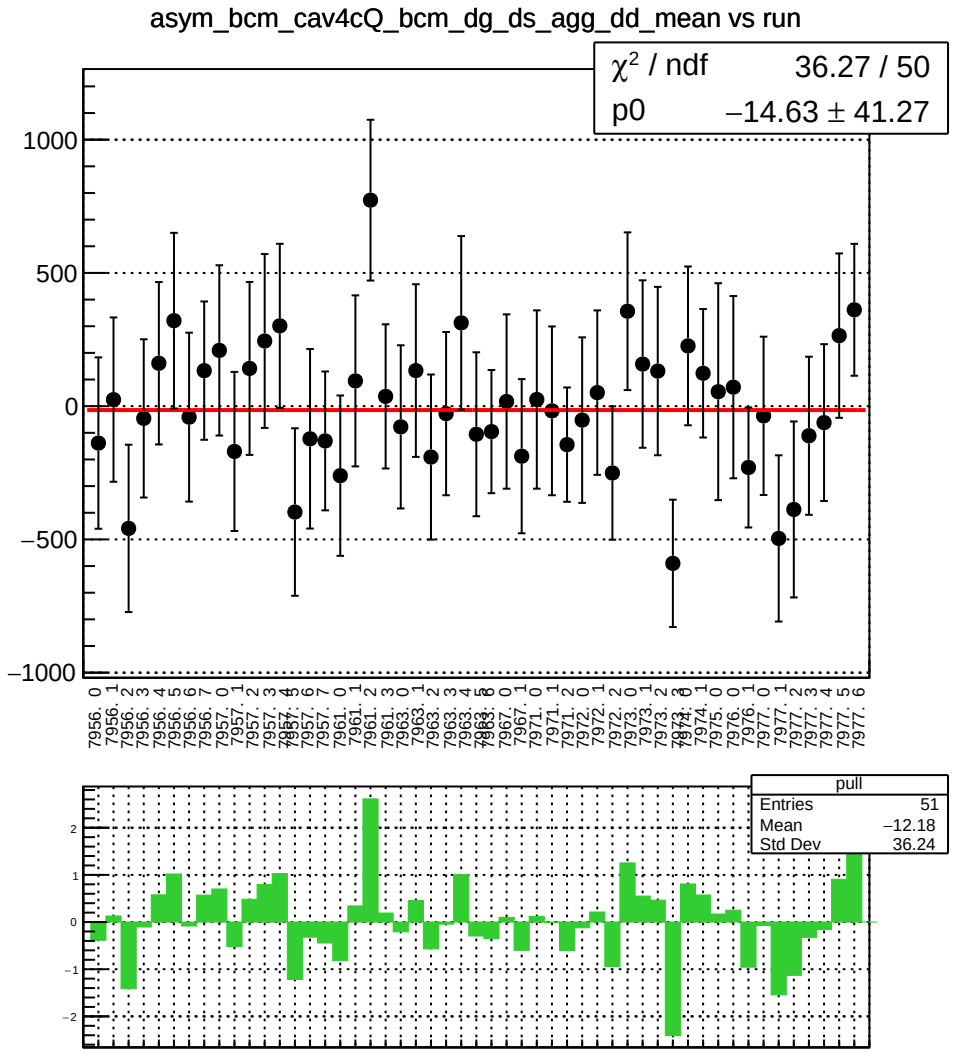
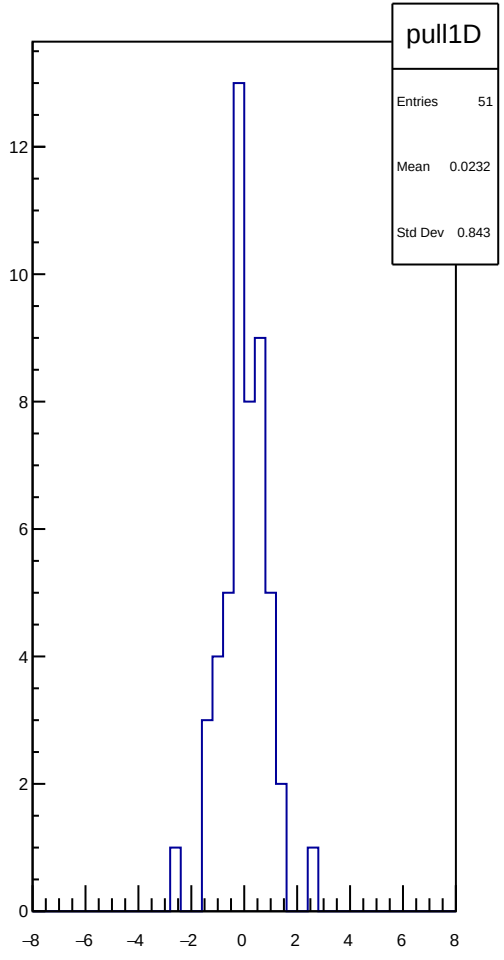
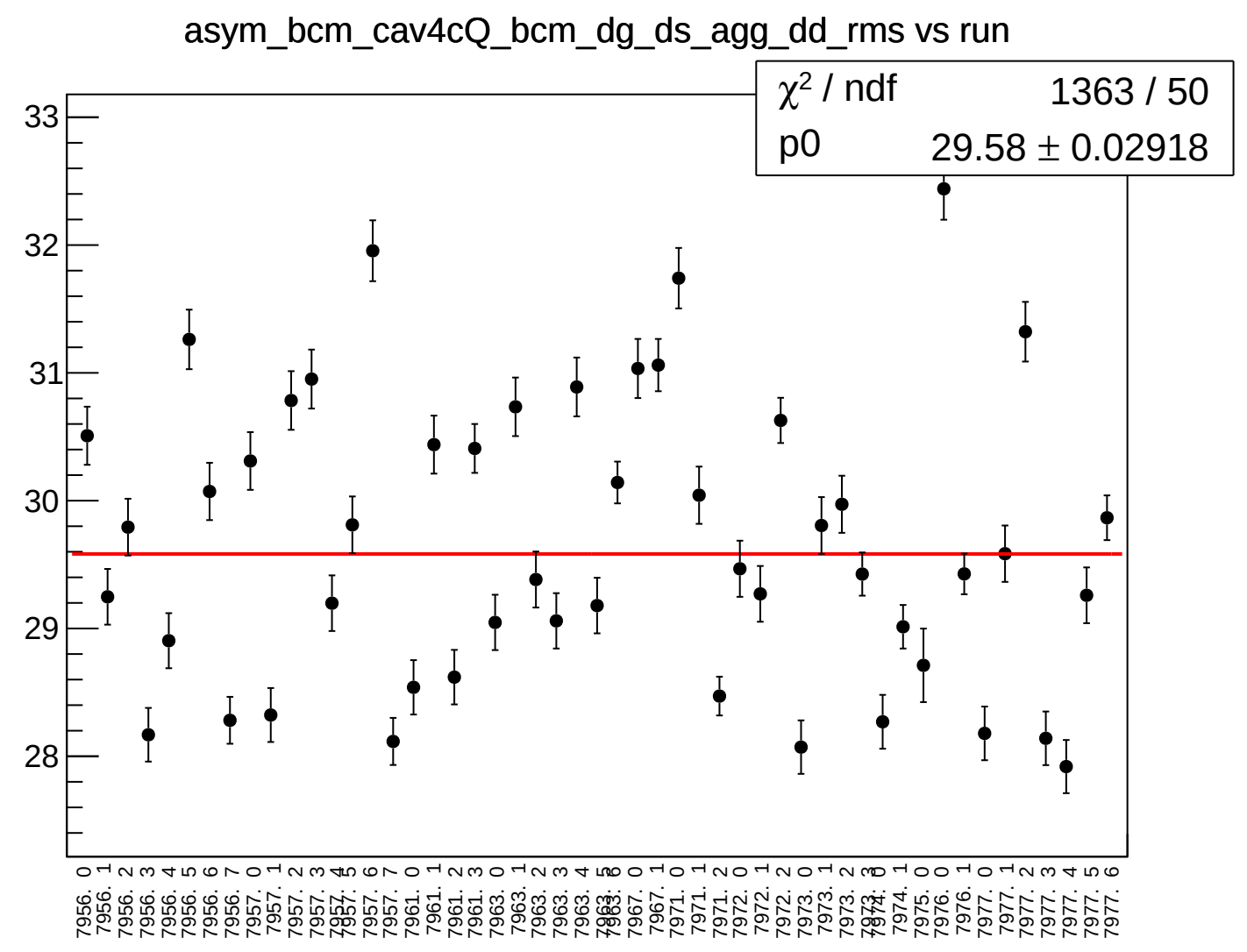
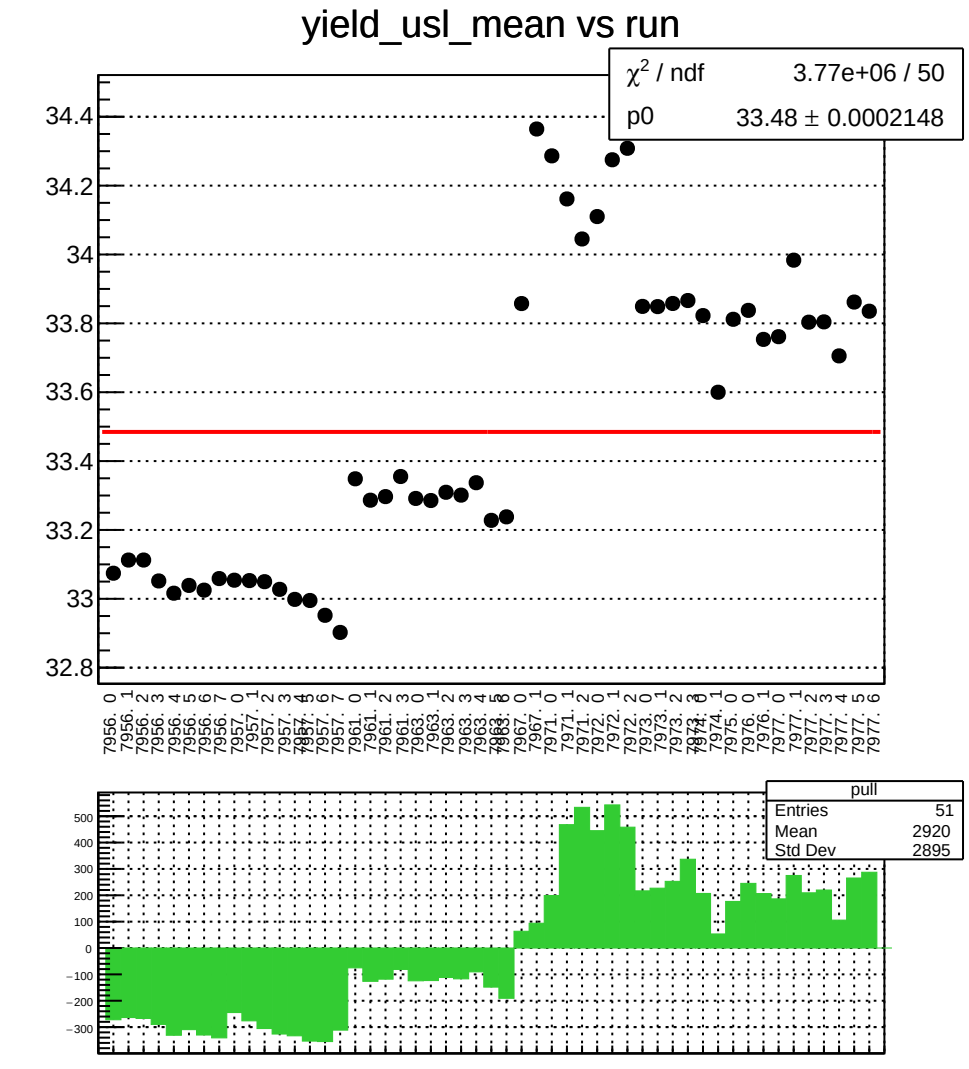
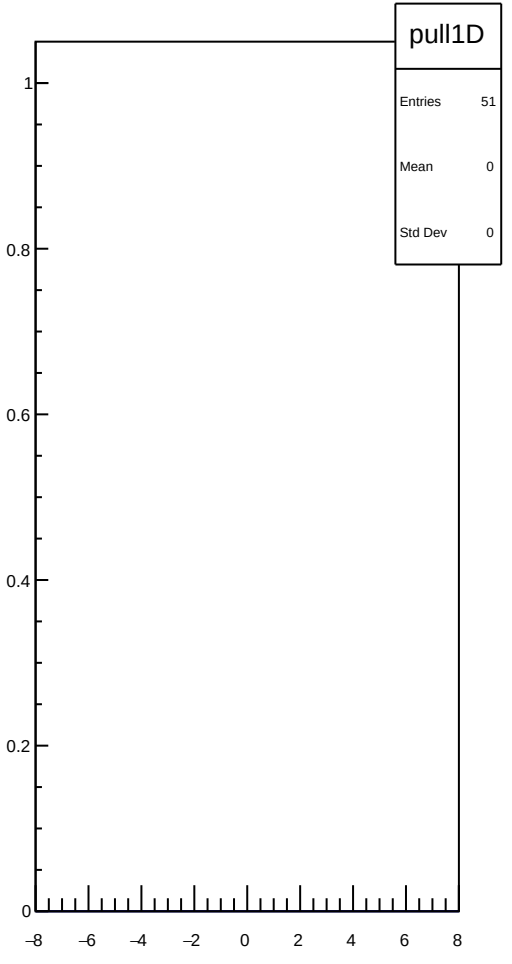
7977. 5
7977. 6

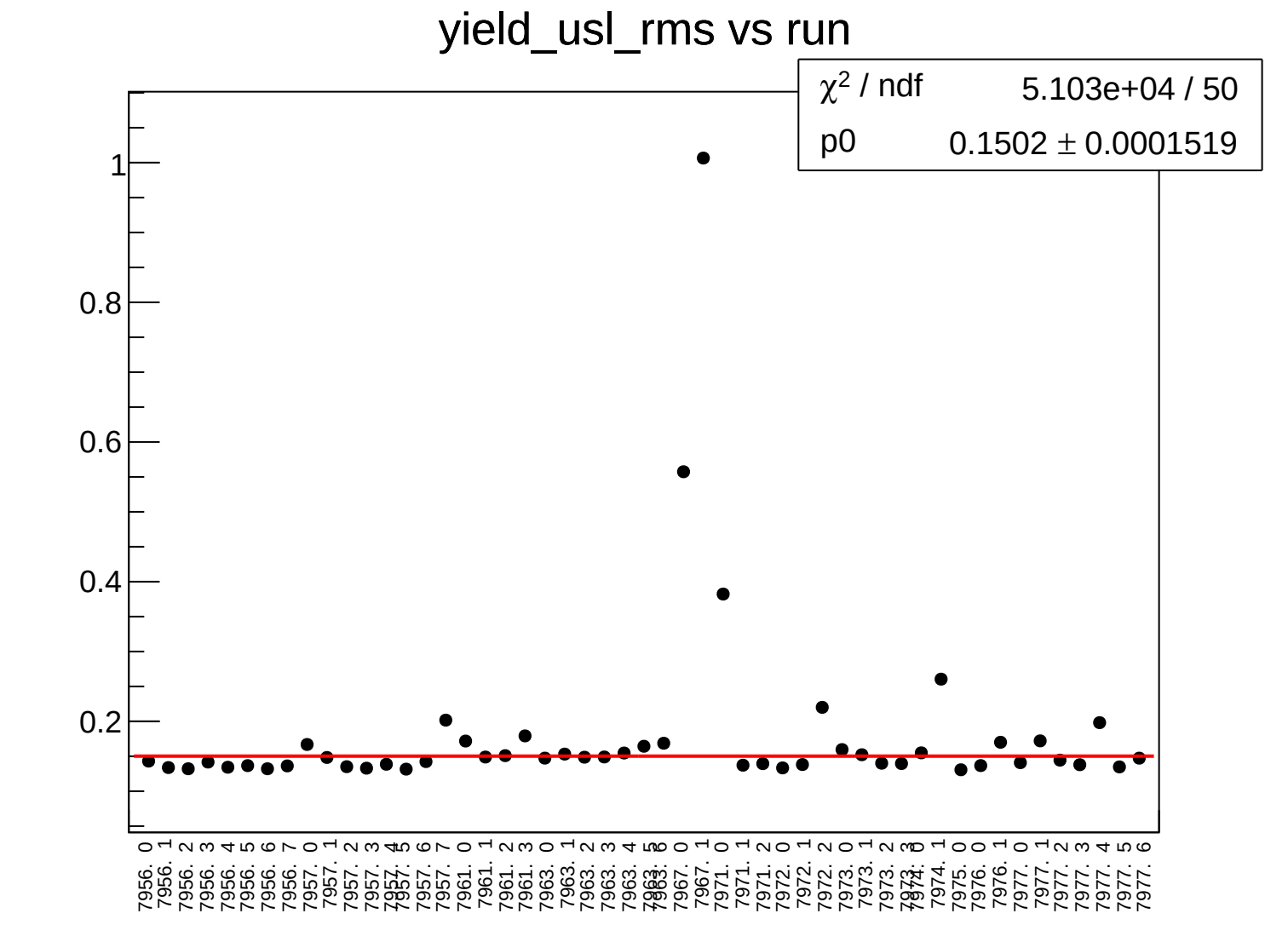

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 36.27 / 50
p0 −14.63 ± 41.27
1000
500
0
−500
−1000
pull
Entries 51
Mean −12.18
Std Dev 36.24
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.0232
Std Dev 0.843
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1363 / 50
p0 29.58 ± 0.02918
33
32
31
30
29
28
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_usl_mean vs run
χ² / ndf 3.77e+06 / 50
p0 33.48 ± 0.0002148
34.4
34.2
34
33.8
33.6
33.4
33.2
33
32.8
pull
Entries 51
Mean 2920
Std Dev 2895
500
400
300
200
100
0
−100
−200
−300


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


yield_usl_rms vs run
χ² / ndf 5.103e+04 / 50
p0 0.1502 ± 0.0001519
1
0.8
0.6
0.4
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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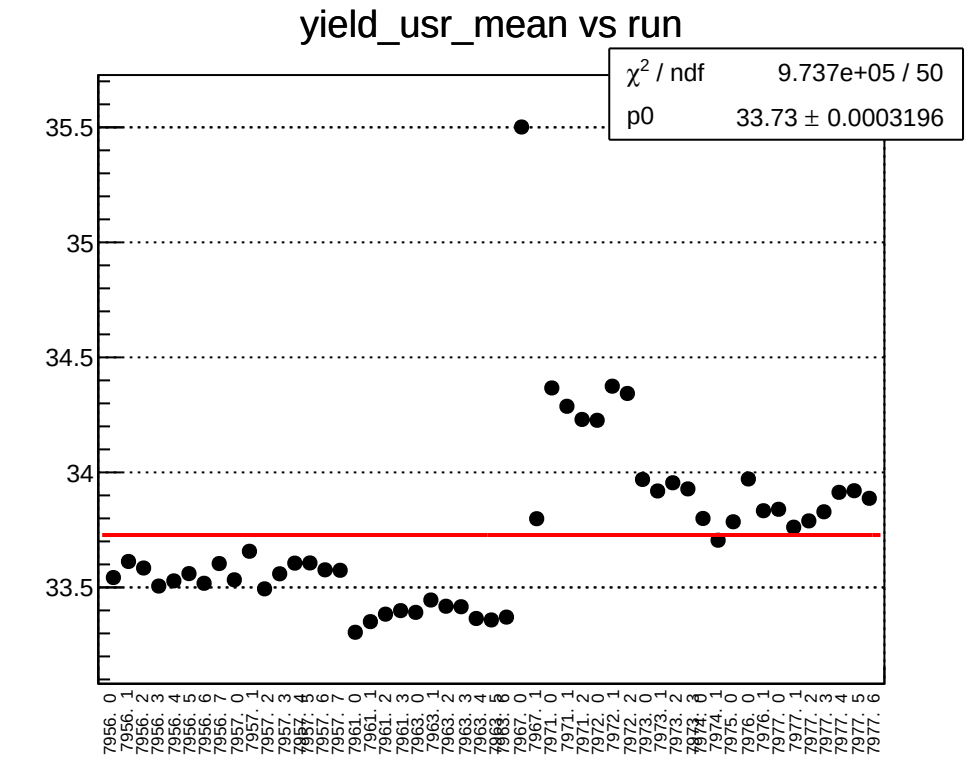
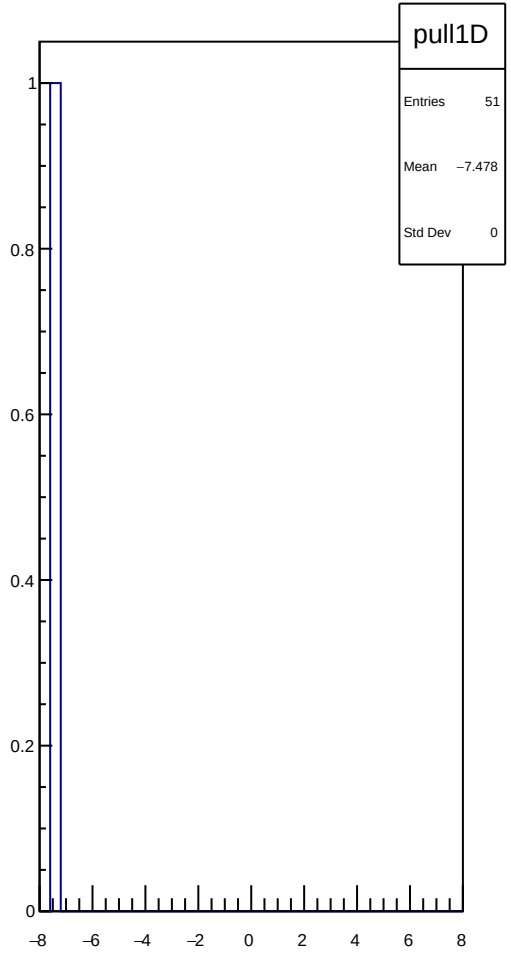
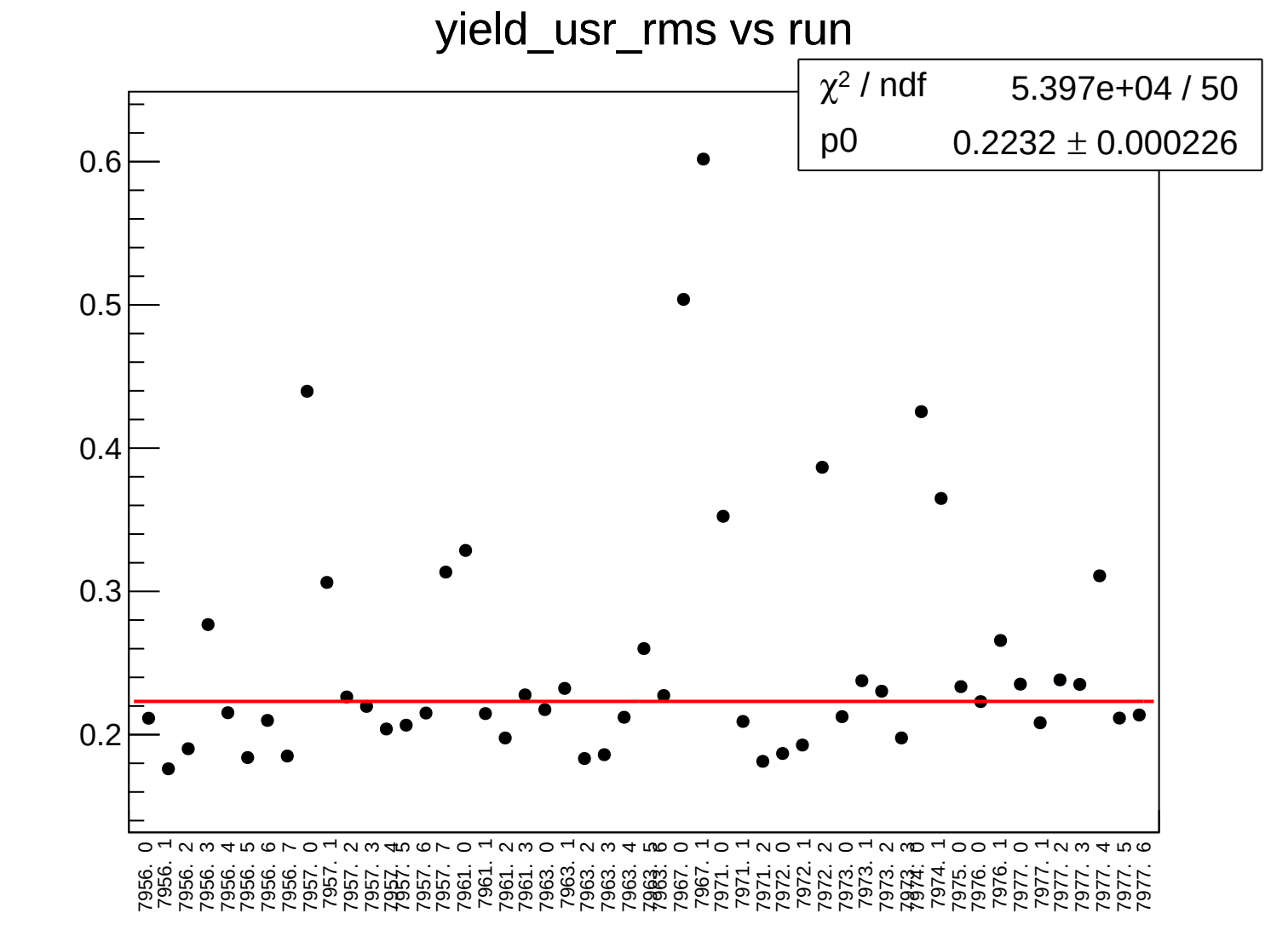
7977. 5
7977. 6


yield_usr_mean vs run
χ² / ndf 9.737e+05 / 50
p0 33.73 ± 0.0003196
35.5
35
34.5
34
33.5
pull
Entries 51
Mean 1101
Std Dev 1076
300
200
100
0
−100
−200


pull1D
Entries 51
Mean −7.478
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_usr_rms vs run
χ² / ndf 5.397e+04 / 50
p0 0.2232 ± 0.000226
0.6
0.5
0.4
0.3
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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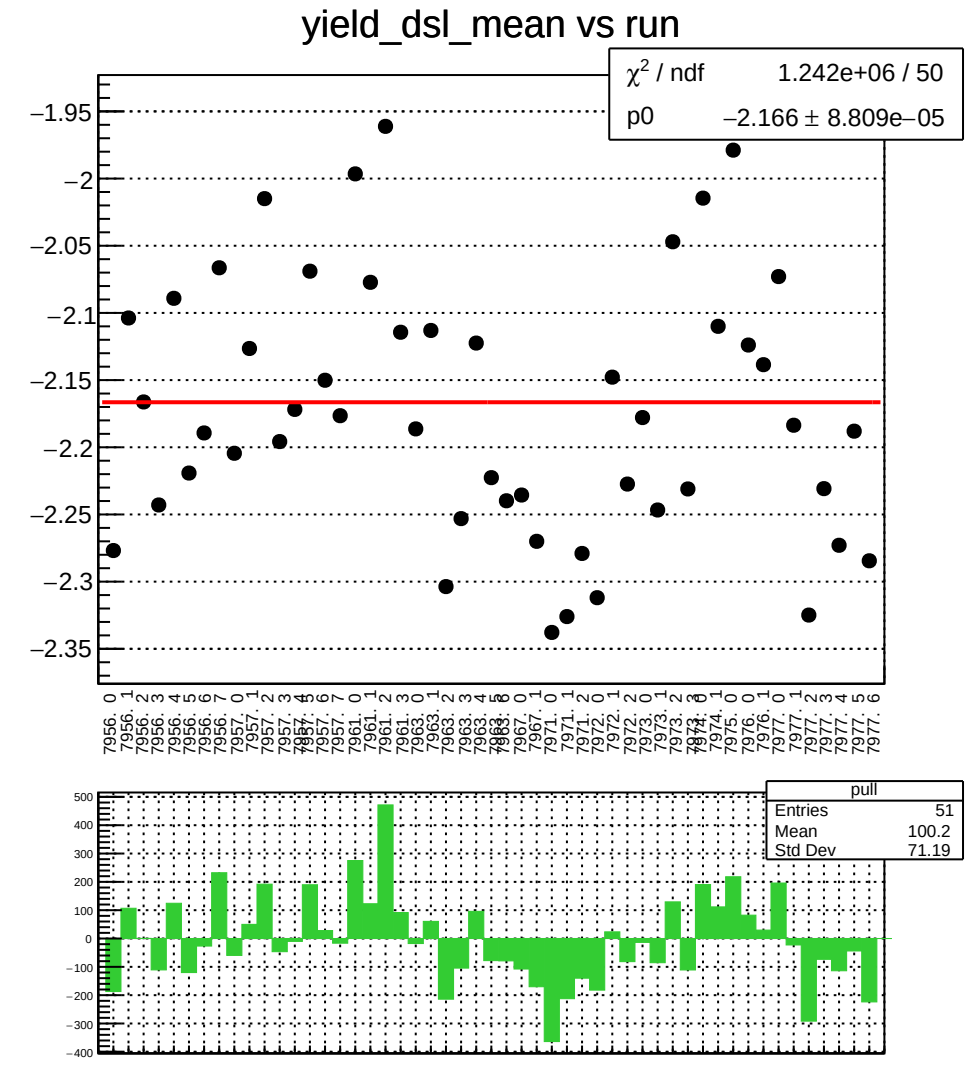
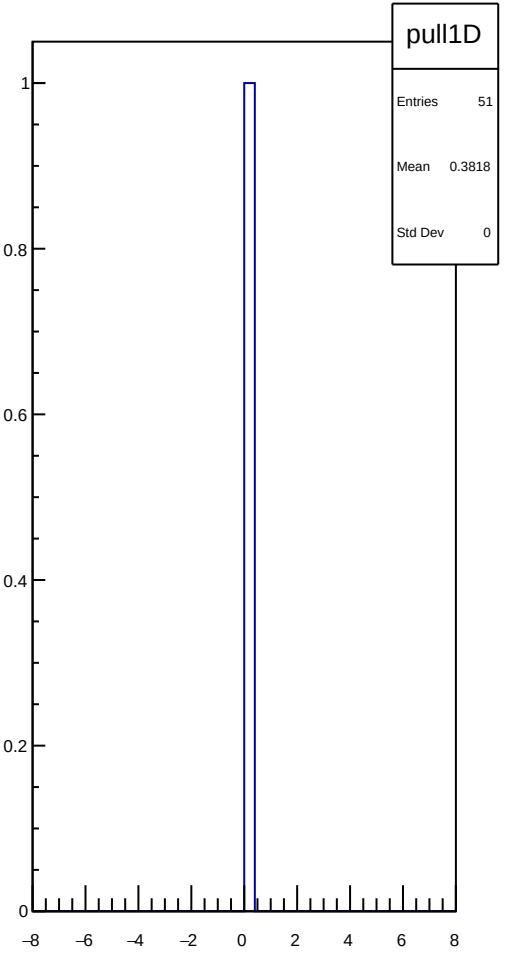
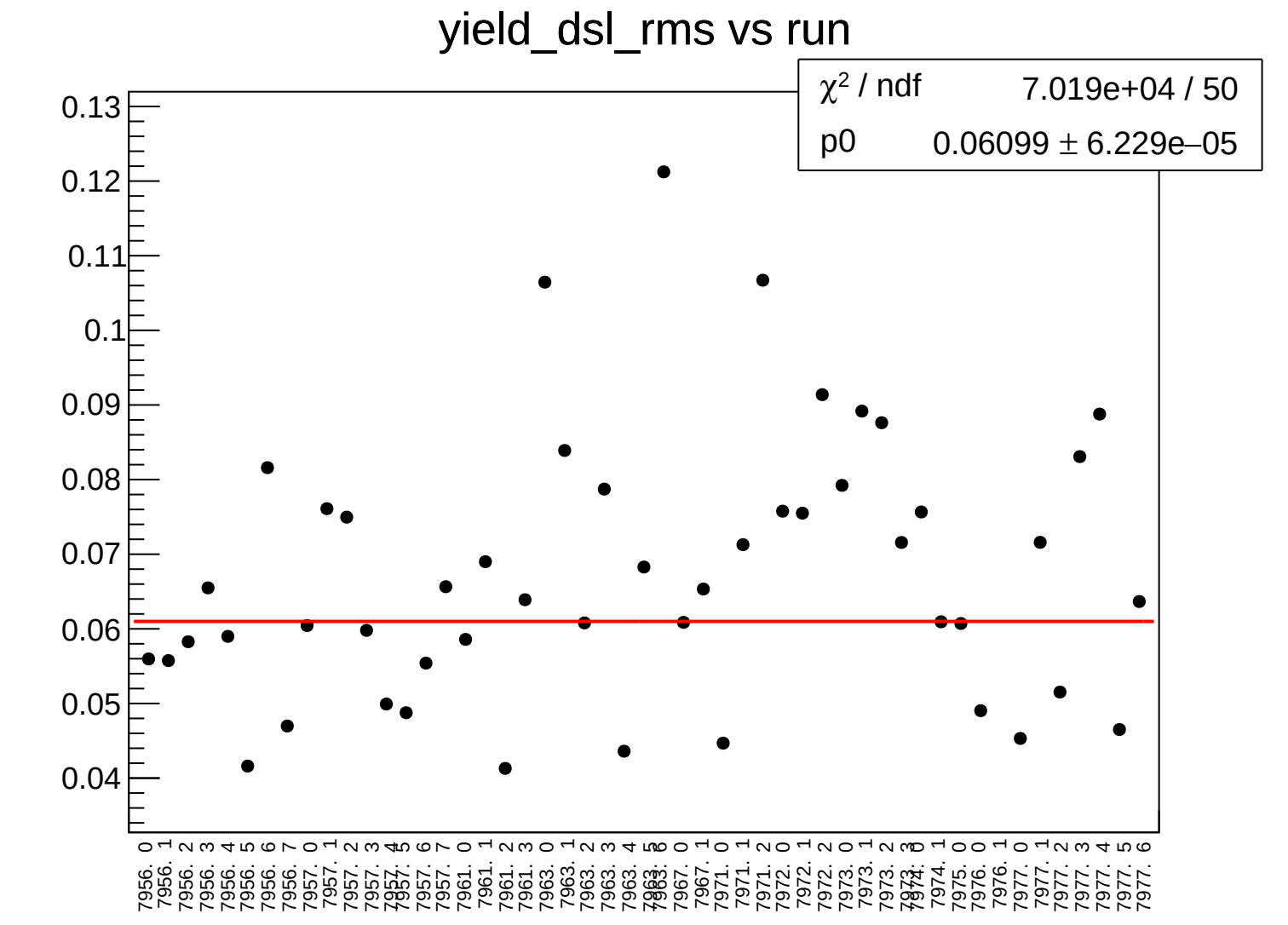
7977. 5
7977. 6


yield_dsl_mean vs run
χ² / ndf 1.242e+06 / 50
p0 −2.166 ± 8.809e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
−2.35
pull
Entries 51
Mean 100.2
Std Dev 71.19
500
400
300
200
100
0
−100
−200
−300
−400


pull1D
Entries 51
Mean 0.3818
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsl_rms vs run
χ² / ndf 7.019e+04 / 50
p0 0.06099 ± 6.229e–05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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7977. 2
7977. 3
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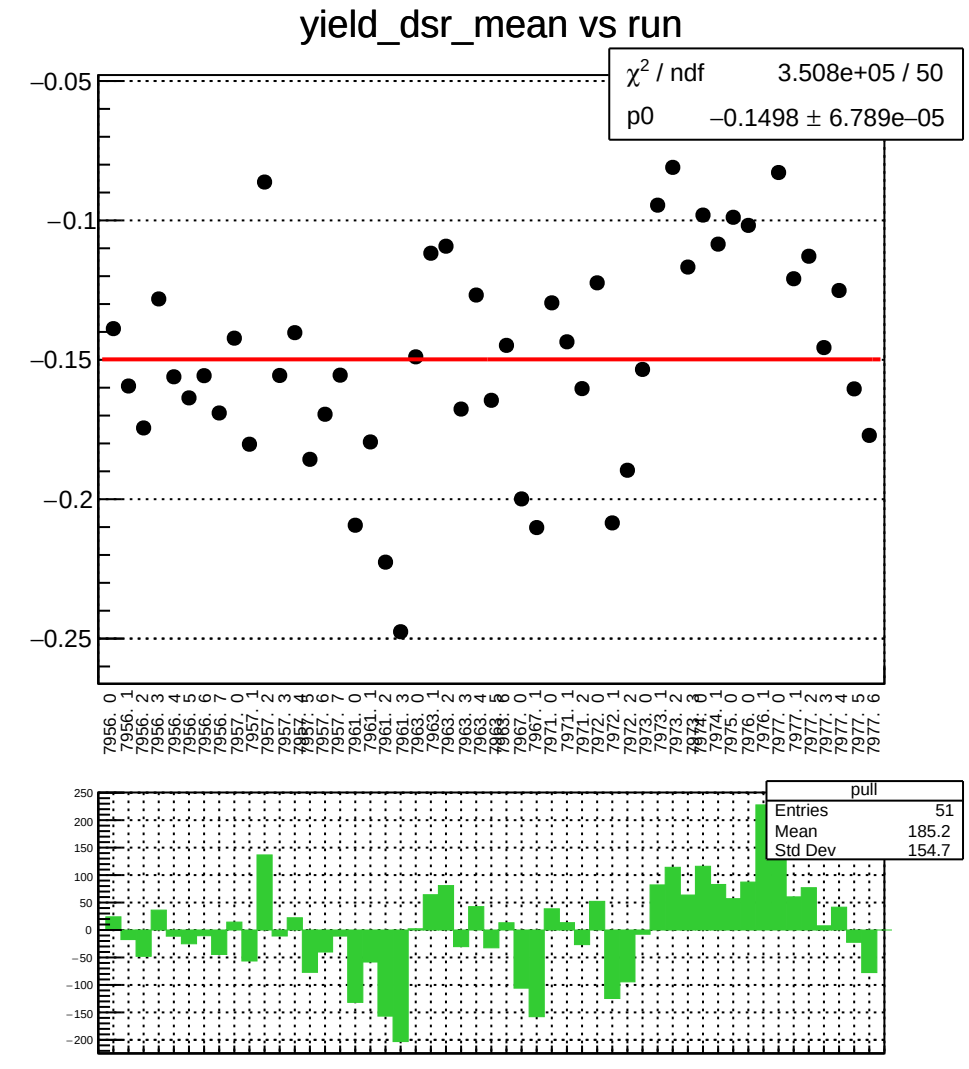
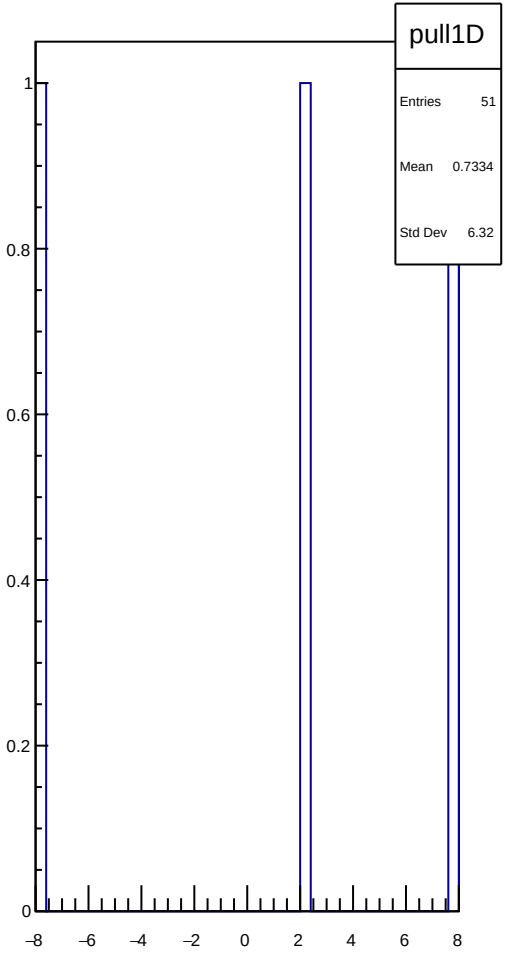
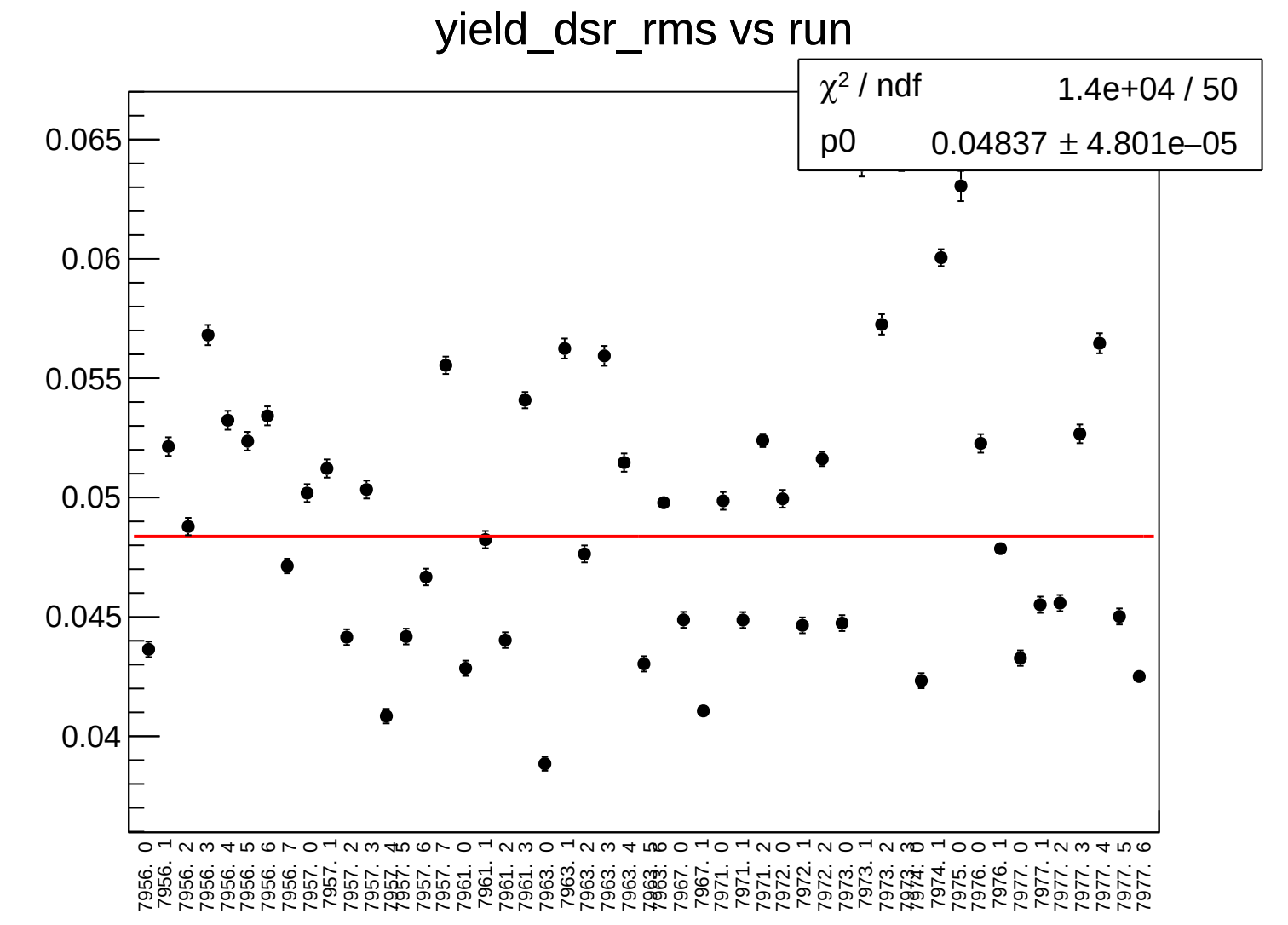
7977. 5
7977. 6


yield_dsr_mean vs run
χ² / ndf 3.508e+05 / 50
p0 −0.1498 ± 6.789e−05
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 51
Mean 185.2
Std Dev 154.7
250
200
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 51
Mean 0.7334
Std Dev 6.32
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_dsr_rms vs run
χ² / ndf 1.4e+04 / 50
p0 0.04837 ± 4.801e−05
0.065
0.06
0.055
0.05
0.045
0.04
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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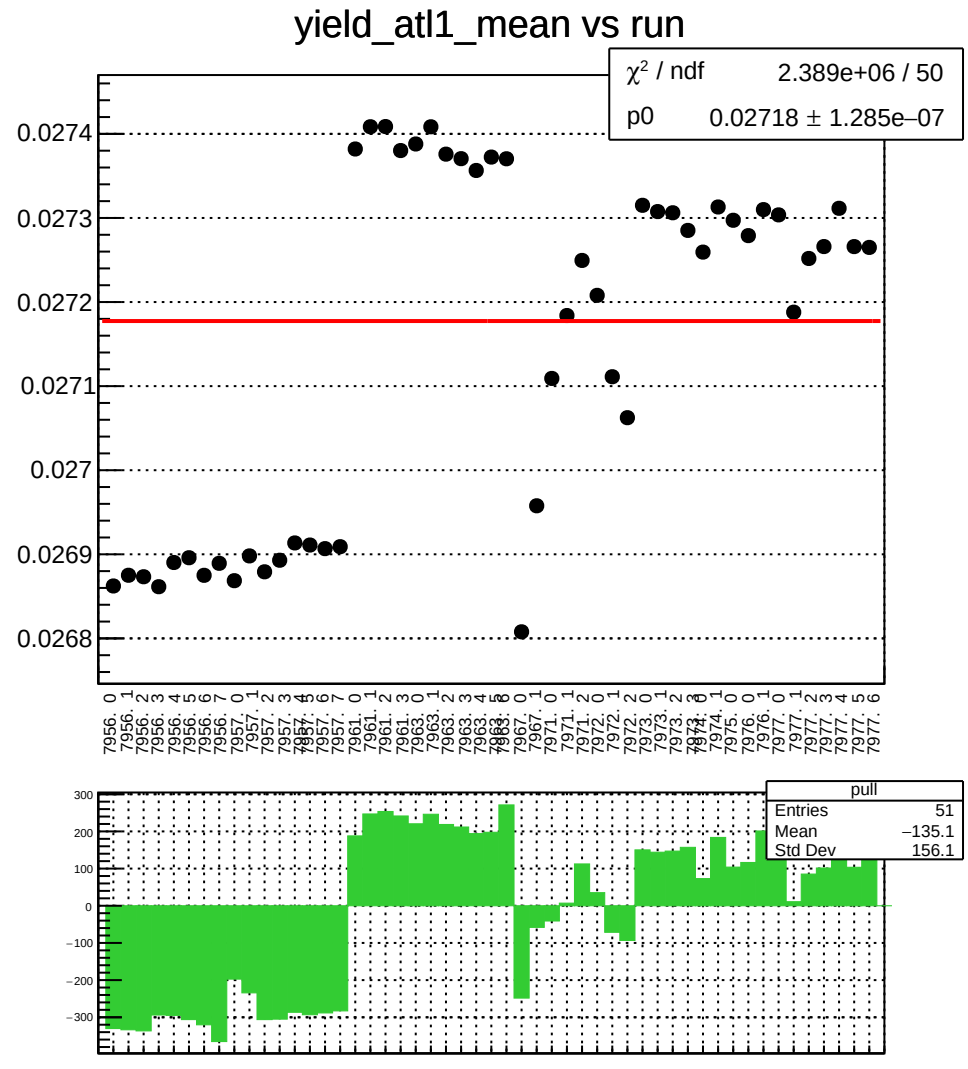
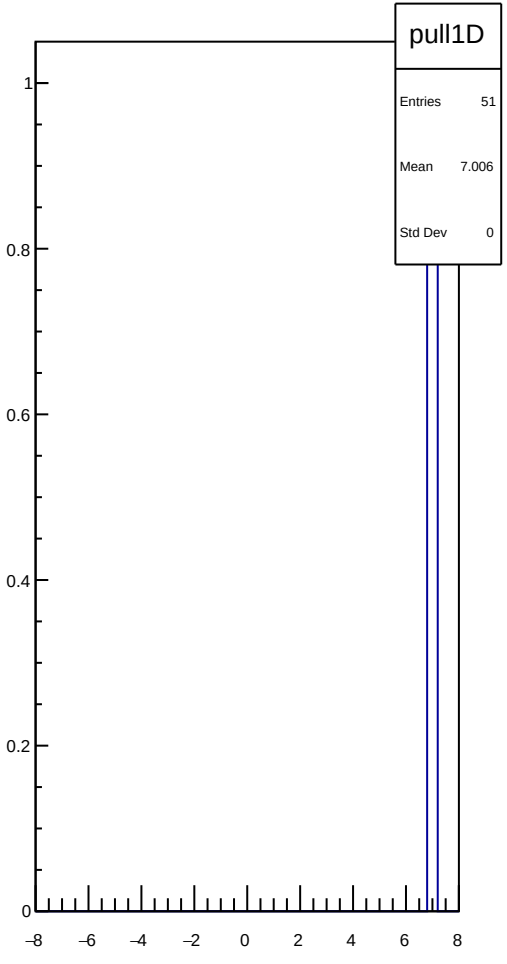
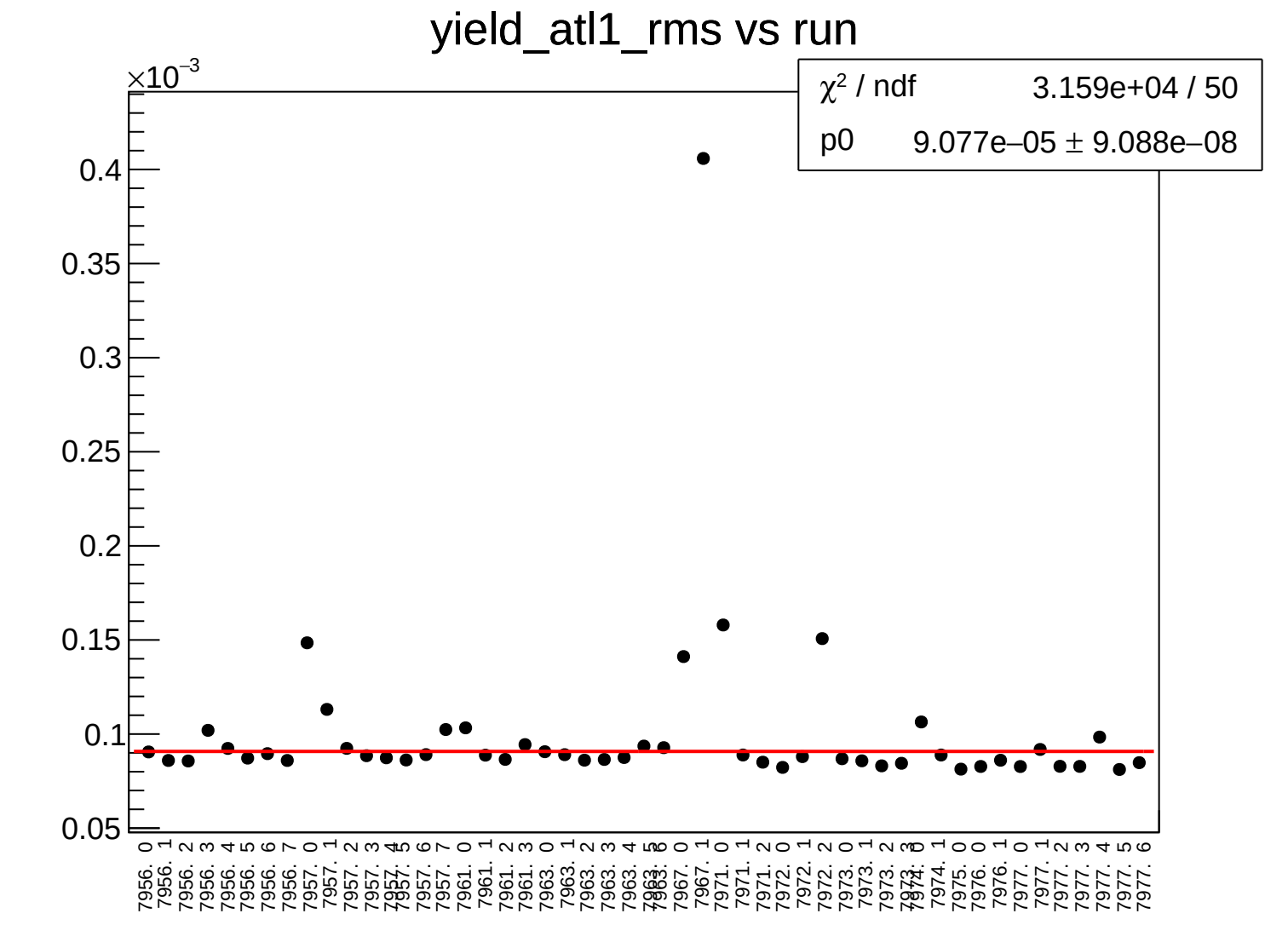
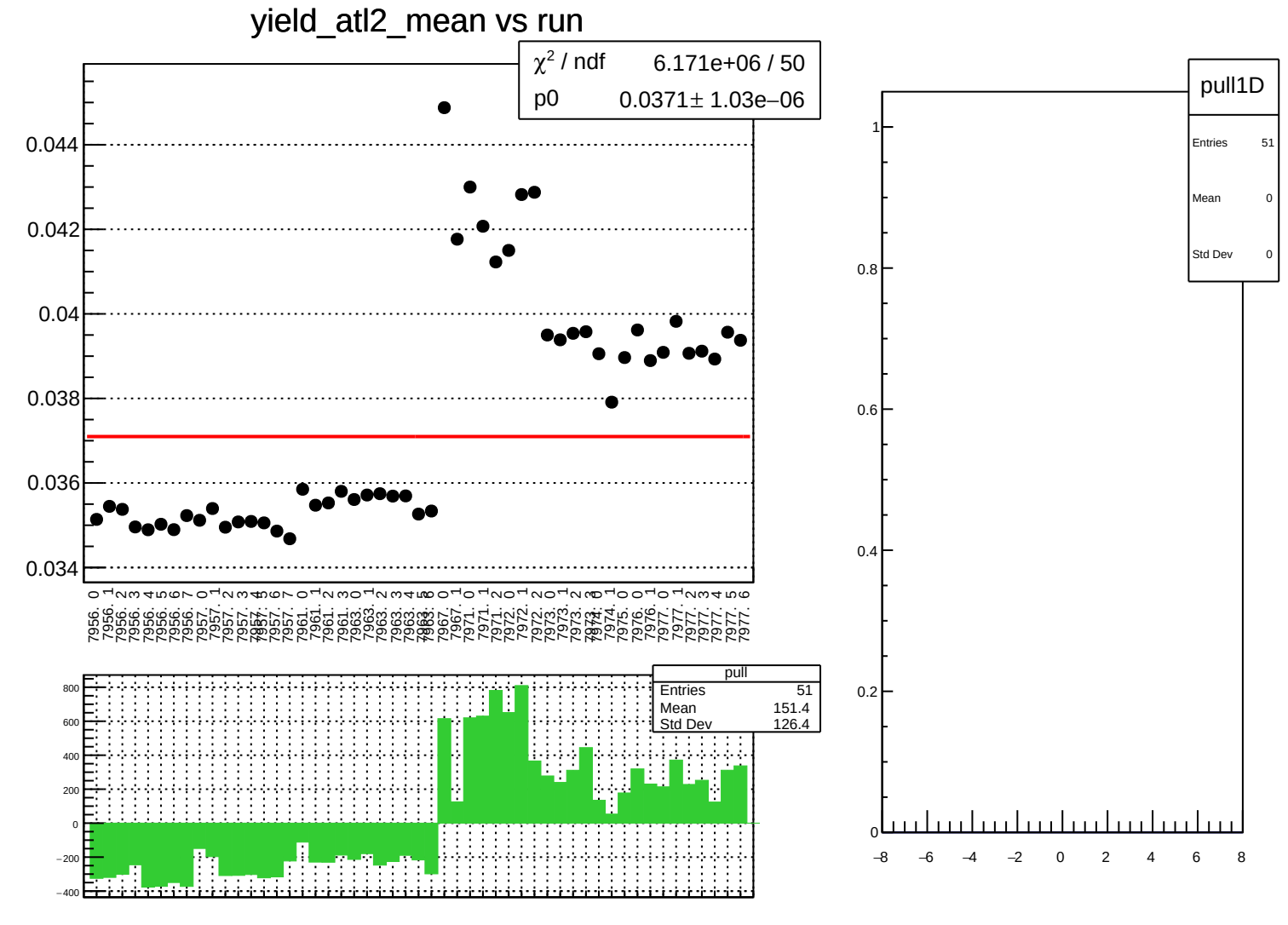
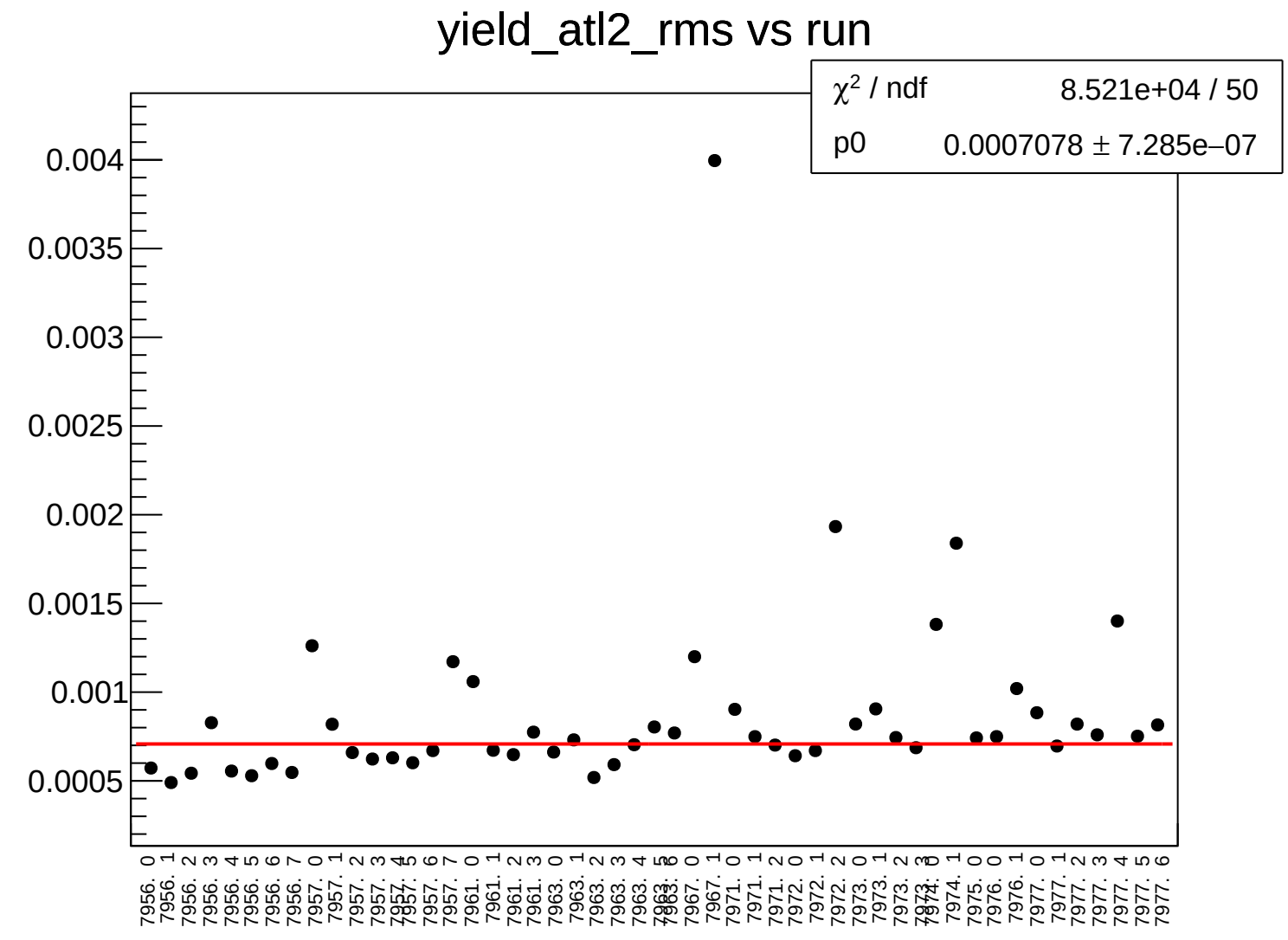
7977. 5
7977. 6


yield_atl1_mean vs run
χ² / ndf 2.389e+06 / 50
p0 0.02718 ± 1.285e−07
0.0274
0.0273
0.0272
0.0271
0.027
0.0269
0.0268
pull
Entries 51
Mean −135.1
Std Dev 156.1
300
200
100
0
−100
−200
−300


pull1D
Entries 51
Mean 7.006
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atl1_rms vs run
χ^2 / ndf 3.159e+04 / 50
p0 9.077e−05 ± 9.088e−08
$\times 10^{-3}$
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_atl2_mean vs run
χ² / ndf 6.171e+06 / 50
p0 0.0371± 1.03e−06
0.044
0.042
0.04
0.038
0.036
0.034
pull
Entries 51
Mean 151.4
Std Dev 126.4
800
600
400
200
0
−200
−400
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atl2_rms vs run
χ² / ndf 8.521e+04 / 50
p0 0.0007078 ± 7.285e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7977. 0
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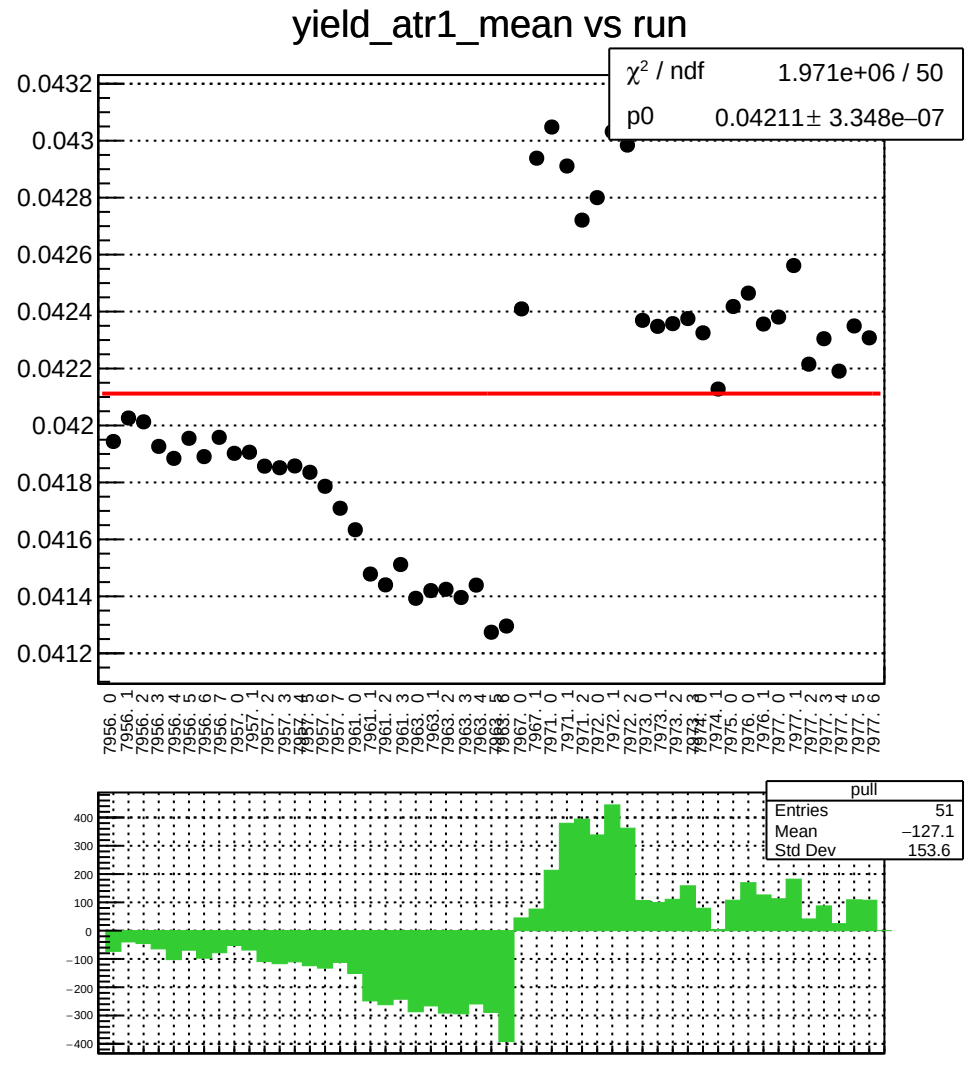
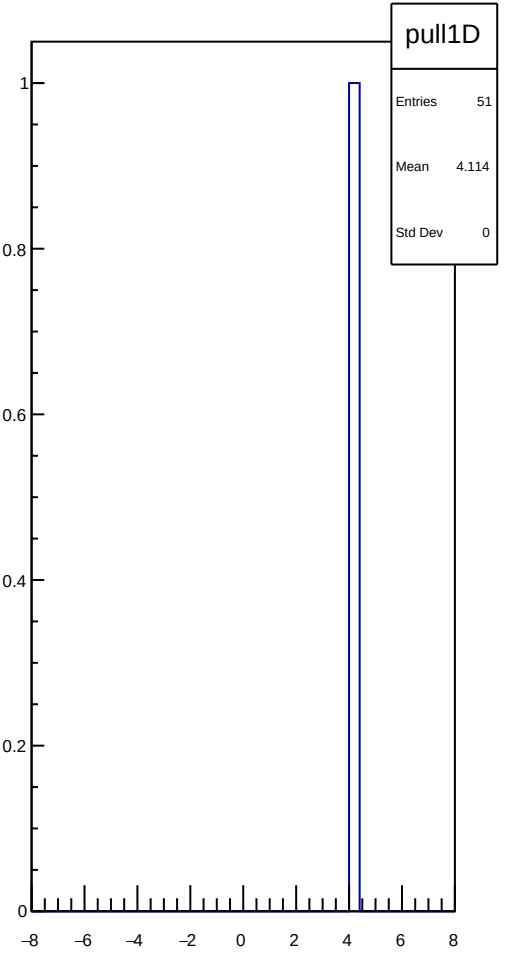
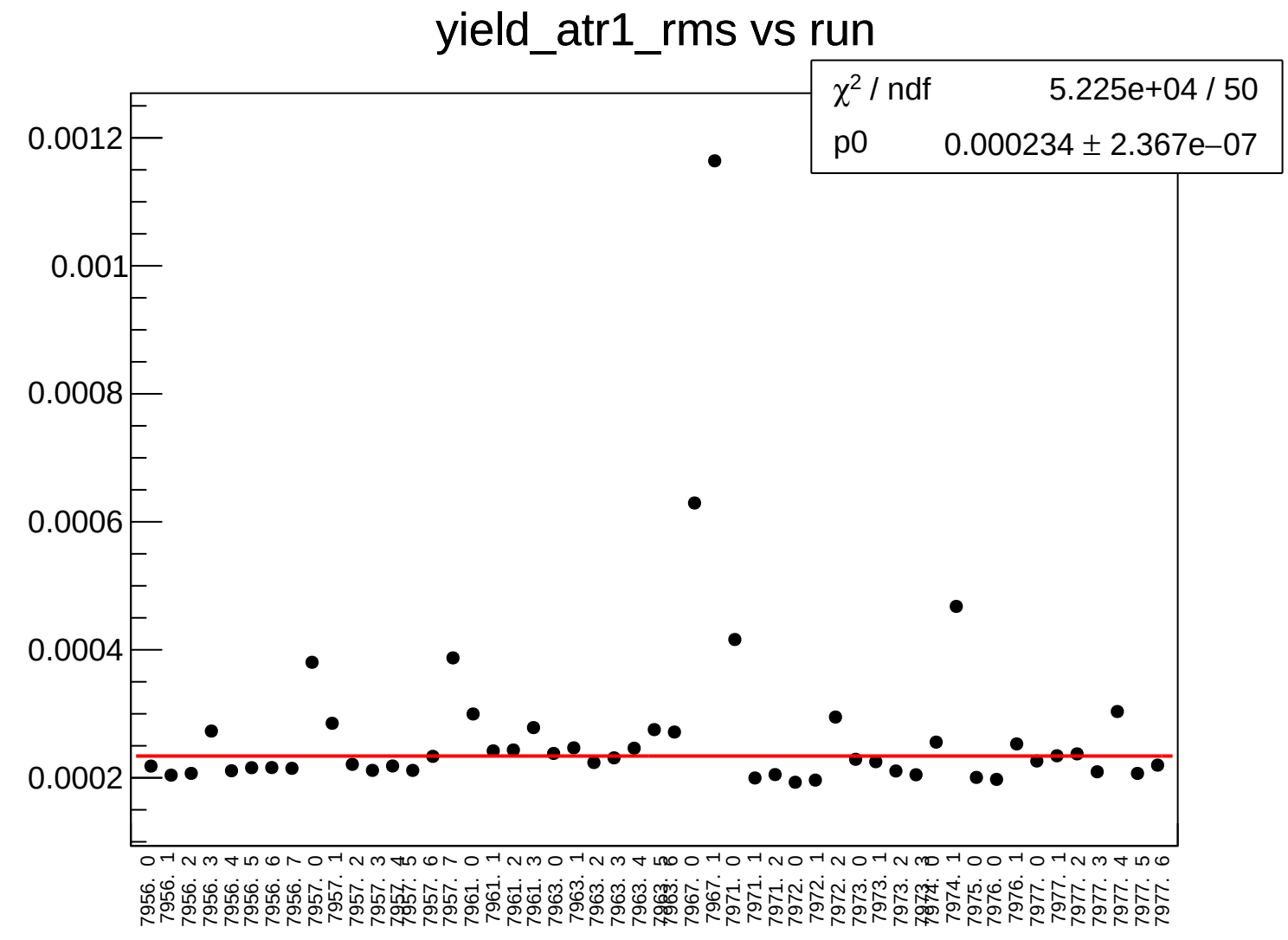
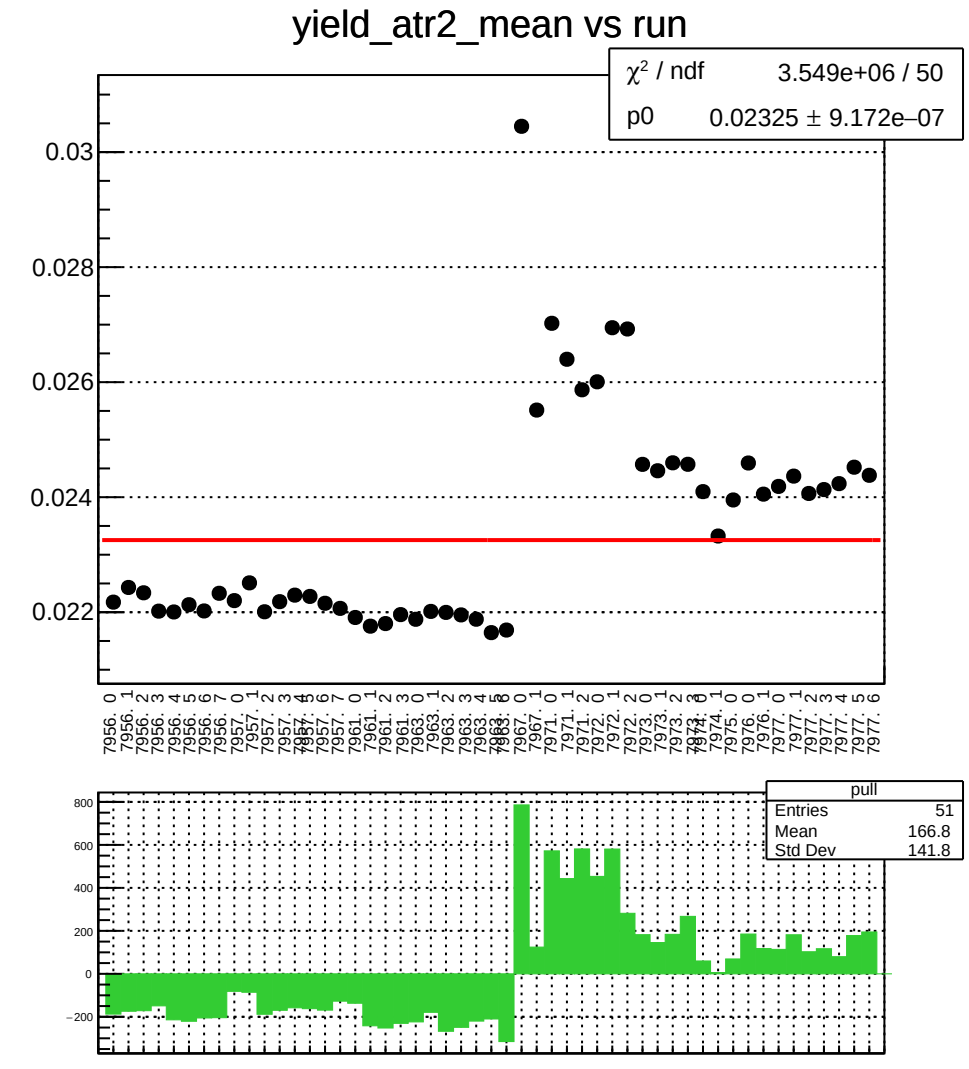
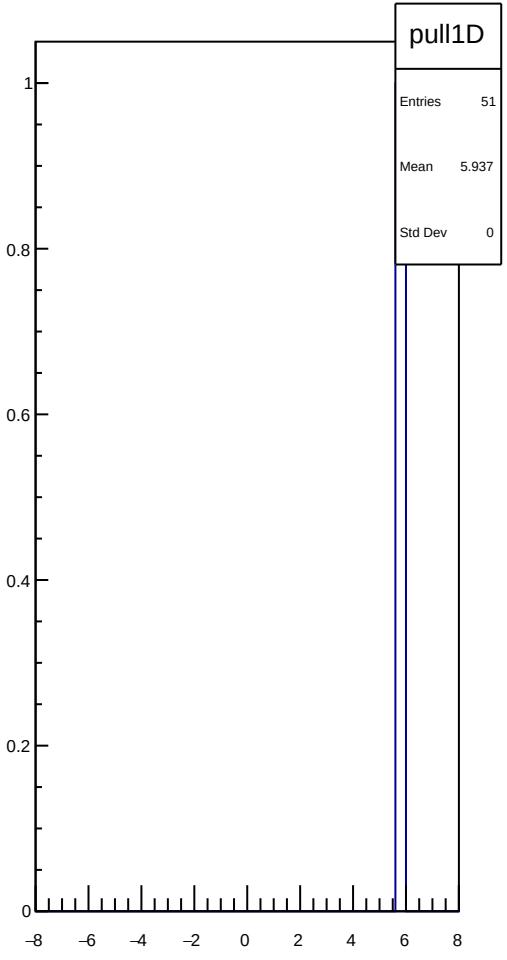
7977. 5
7977. 6

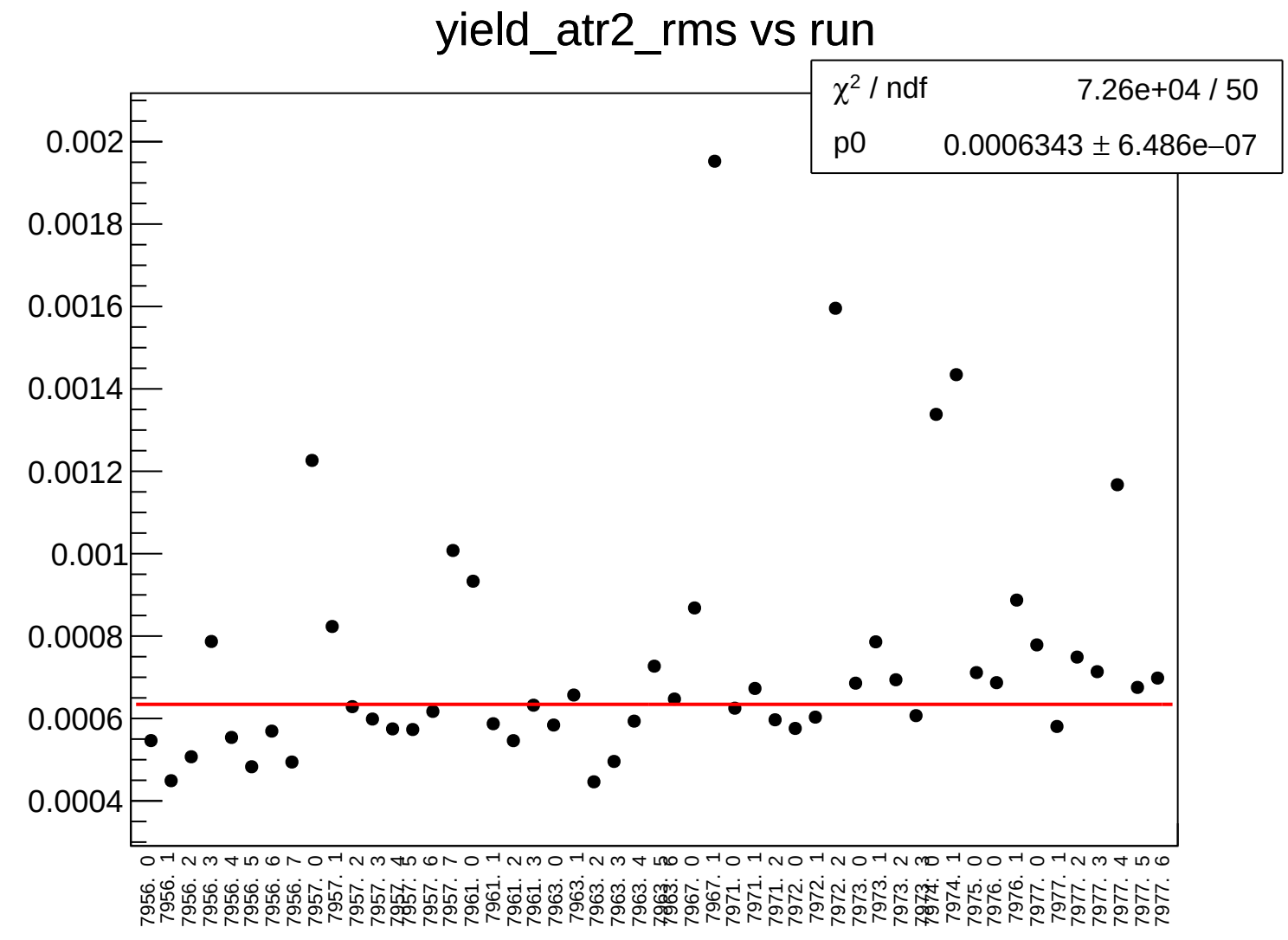

yield_atr1_mean vs run
χ² / ndf 1.971e+06 / 50
p0 0.04211± 3.348e−07
0.0432
0.043
0.0428
0.0426
0.0424
0.0422
0.042
0.0418
0.0416
0.0414
0.0412
pull
Entries 51
Mean −127.1
Std Dev 153.6
400
300
200
100
0
−100
−200
−300
−400

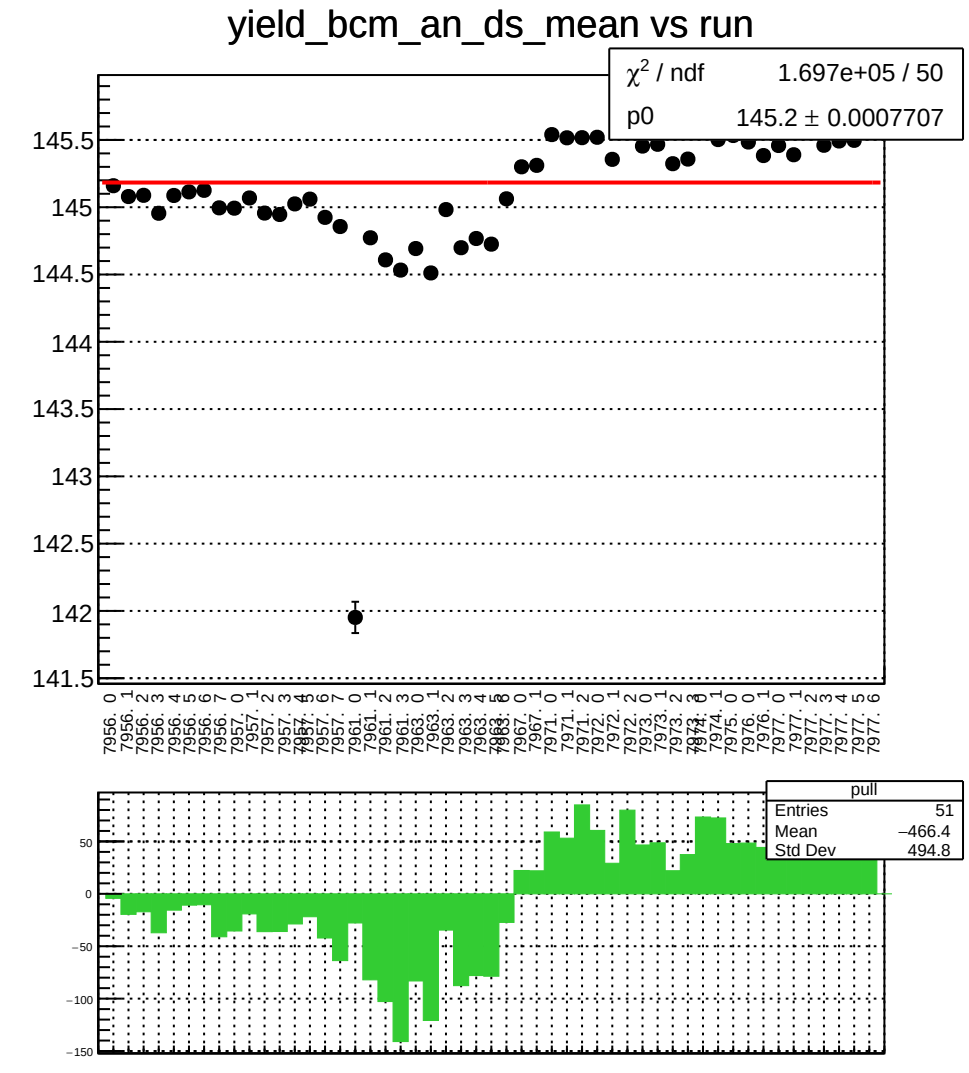

pull1D
Entries 51
Mean 4.114
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

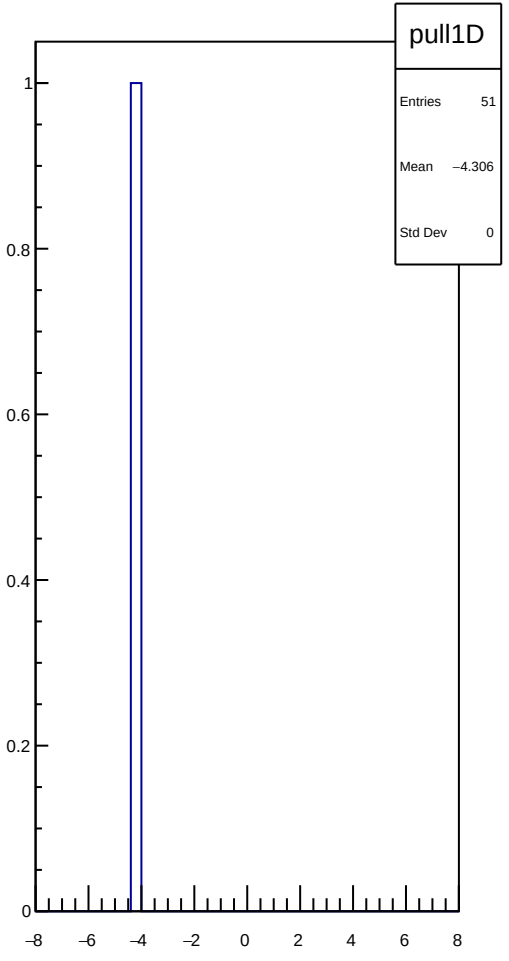

yield_atr1_rms vs run
χ² / ndf 5.225e+04 / 50
p0 0.000234 ± 2.367e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

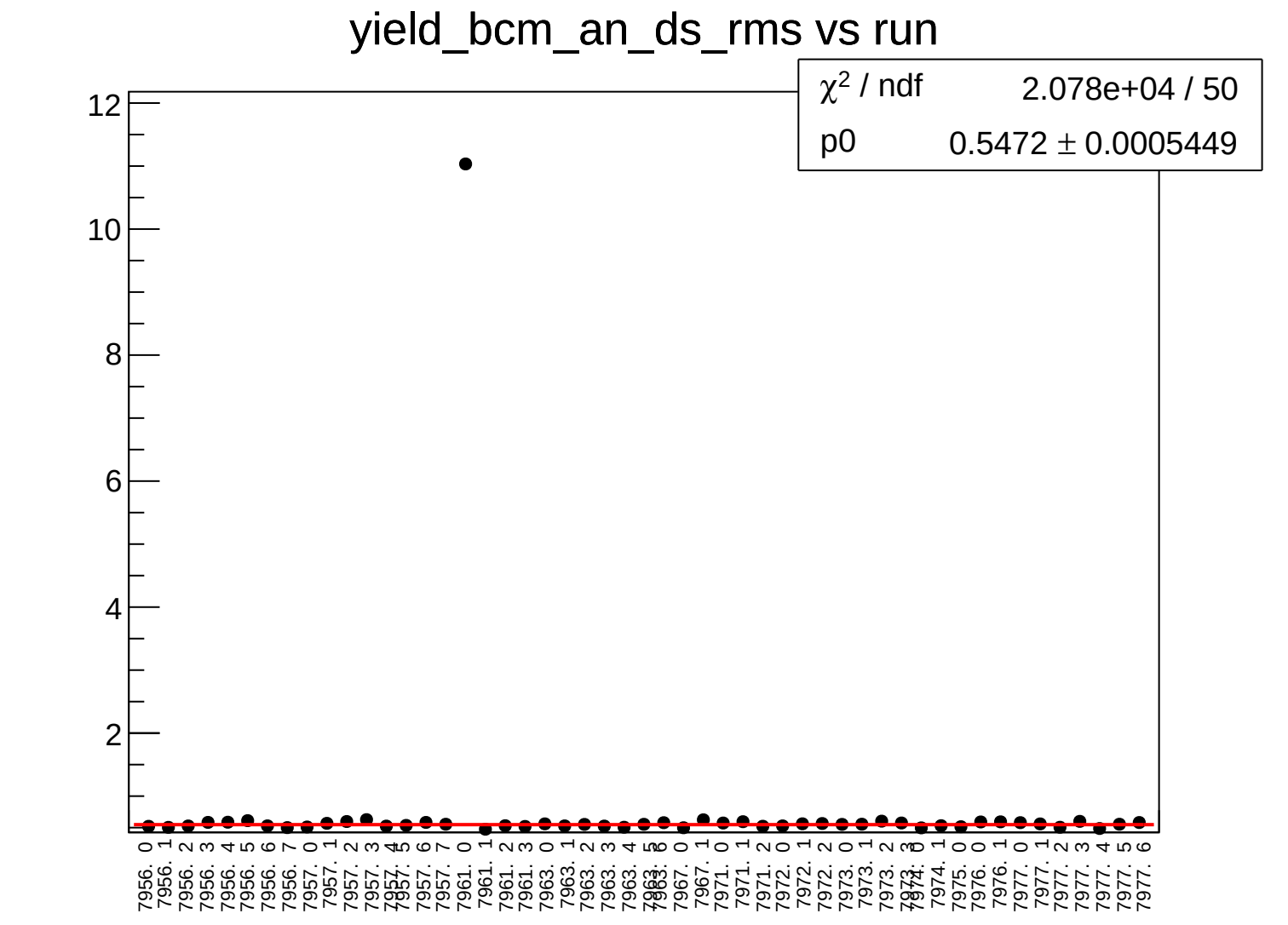

yield_atr2_mean vs run
χ² / ndf 3.549e+06 / 50
p0 0.02325 ± 9.172e−07
0.03
0.028
0.026
0.024
0.022
pull
Entries 51
Mean 166.8
Std Dev 141.8
800
600
400
200
0
−200


pull1D
Entries 51
Mean 5.937
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_atr2_rms vs run
χ² / ndf 7.26e+04 / 50
p0 0.0006343 ± 6.486e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bcm_an_ds_mean vs run
χ² / ndf 1.697e+05 / 50
p0 145.2 ± 0.0007707
145.5
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 51
Mean −466.4
Std Dev 494.8
50
0
−50
−100
−150


pull1D
Entries 51
Mean −4.306
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds_rms vs run
χ² / ndf 2.078e+04 / 50
p0 0.5472 ± 0.0005449
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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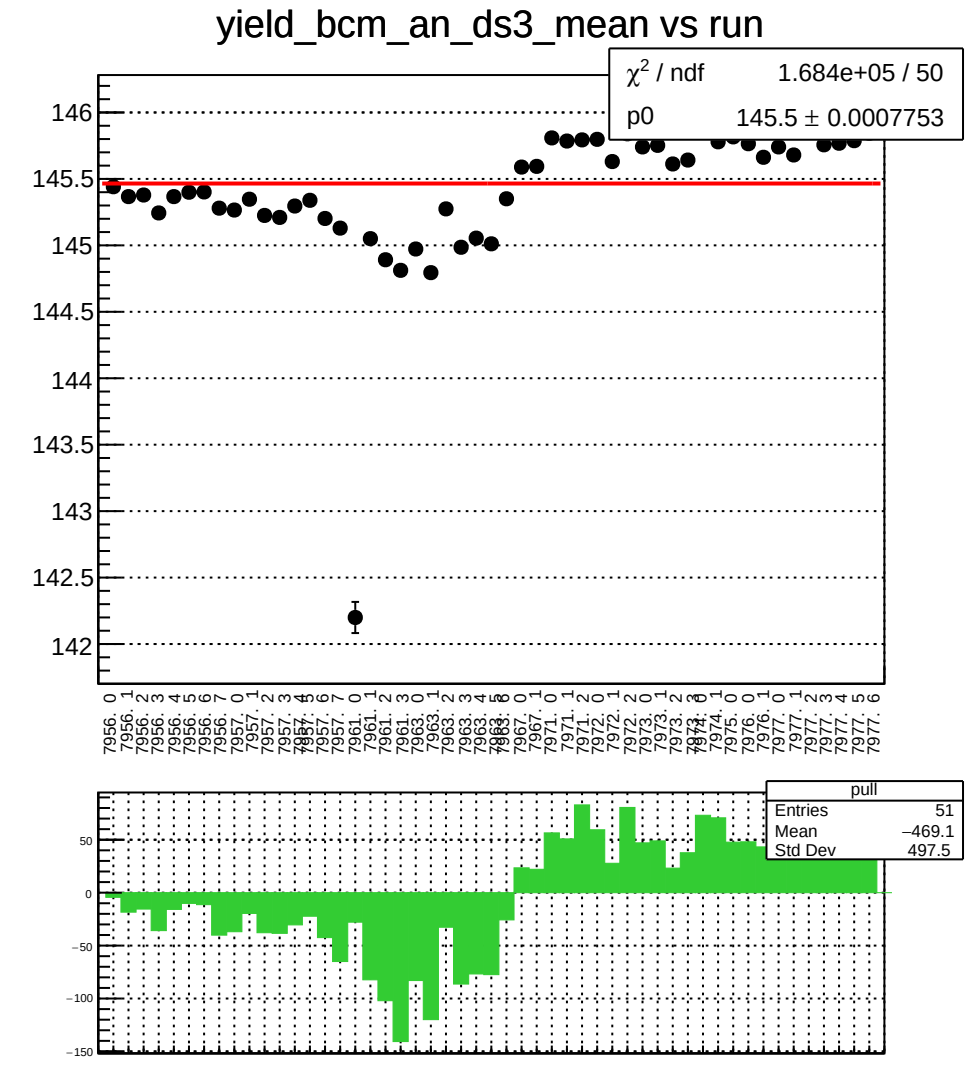
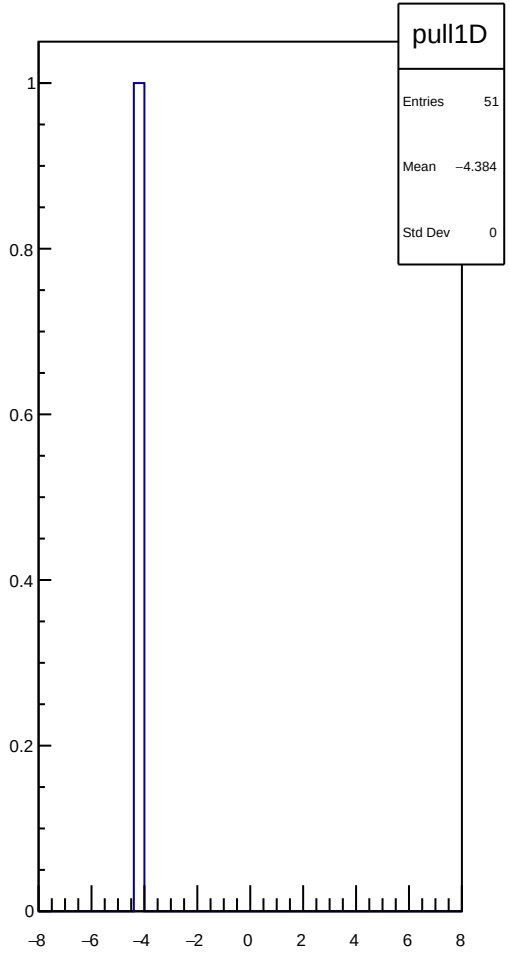
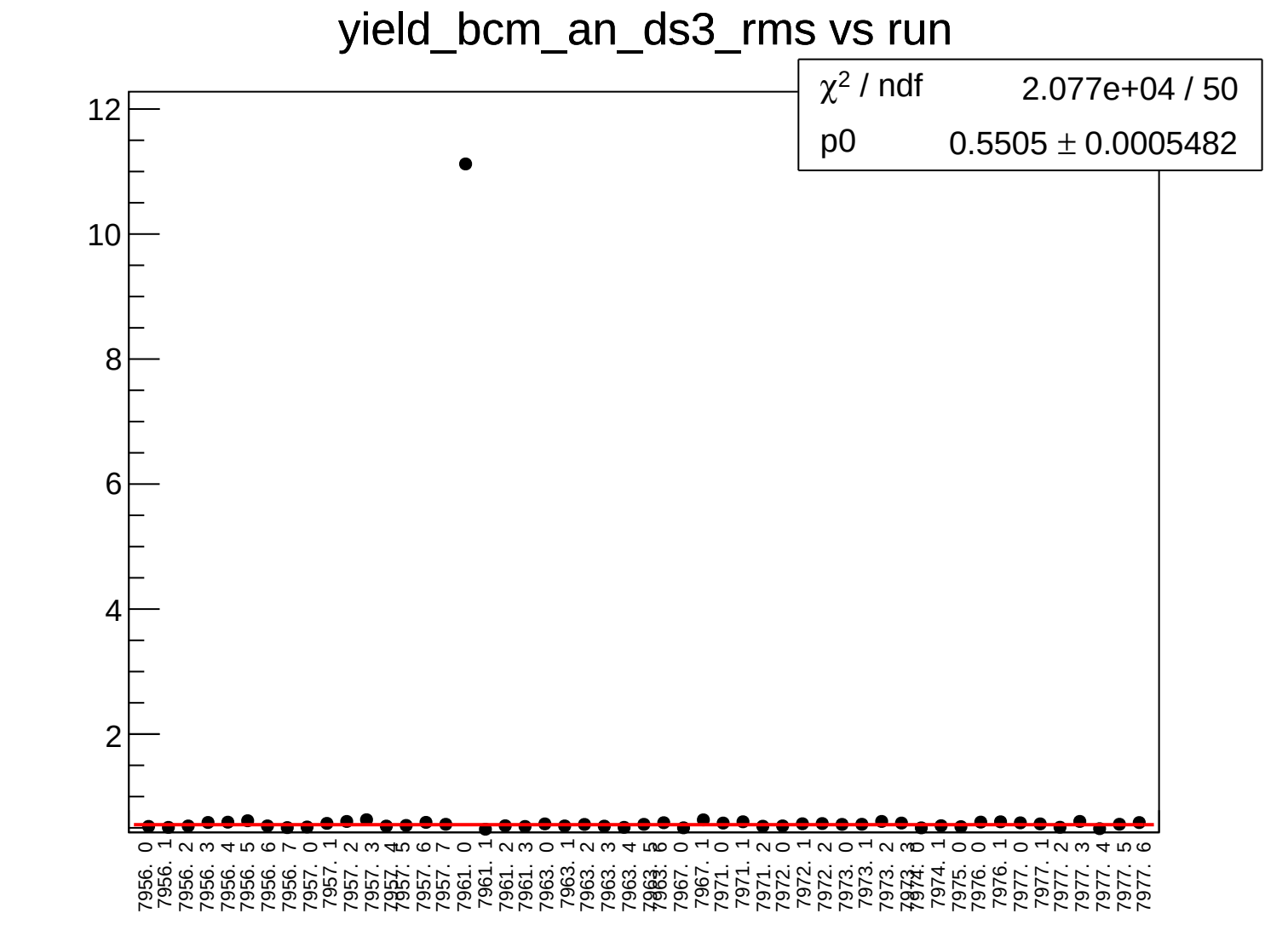
7977. 5
7977. 6


yield_bcm_an_ds3_mean vs run
χ² / ndf 1.684e+05 / 50
p0 145.5 ± 0.0007753
pull
Entries 51
Mean −469.1
Std Dev 497.5


pull1D
Entries 51
Mean −4.384
Std Dev 0


yield_bcm_an_ds3_rms vs run
χ² / ndf 2.077e+04 / 50
p0 0.5505 ± 0.0005482
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7977. 0
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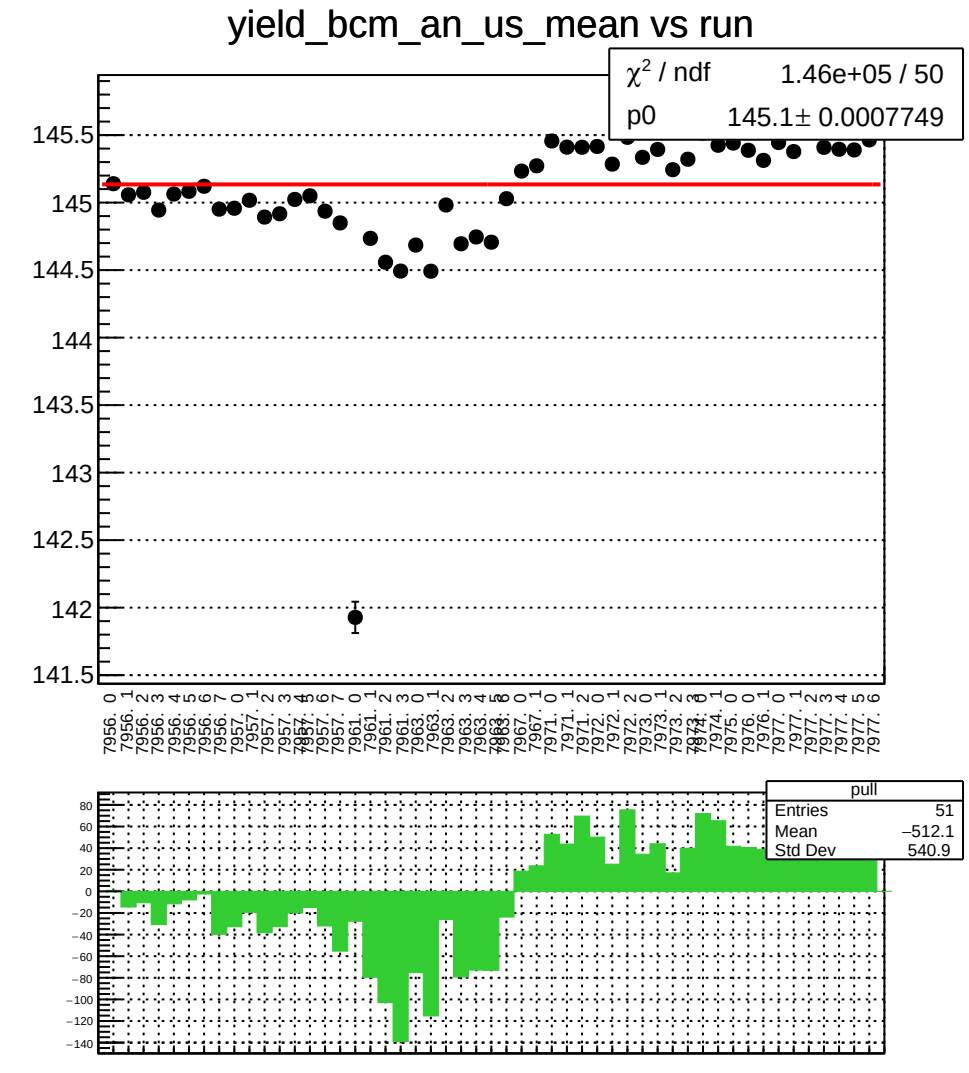
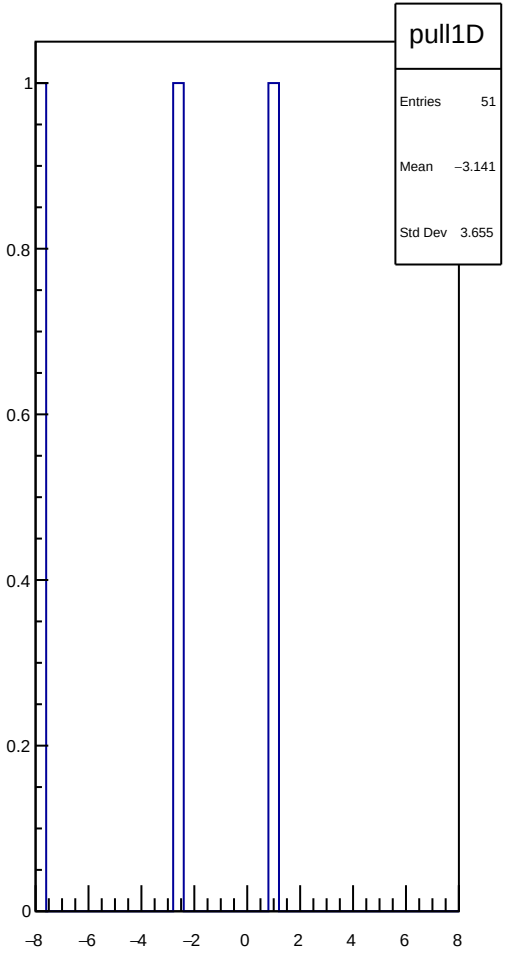
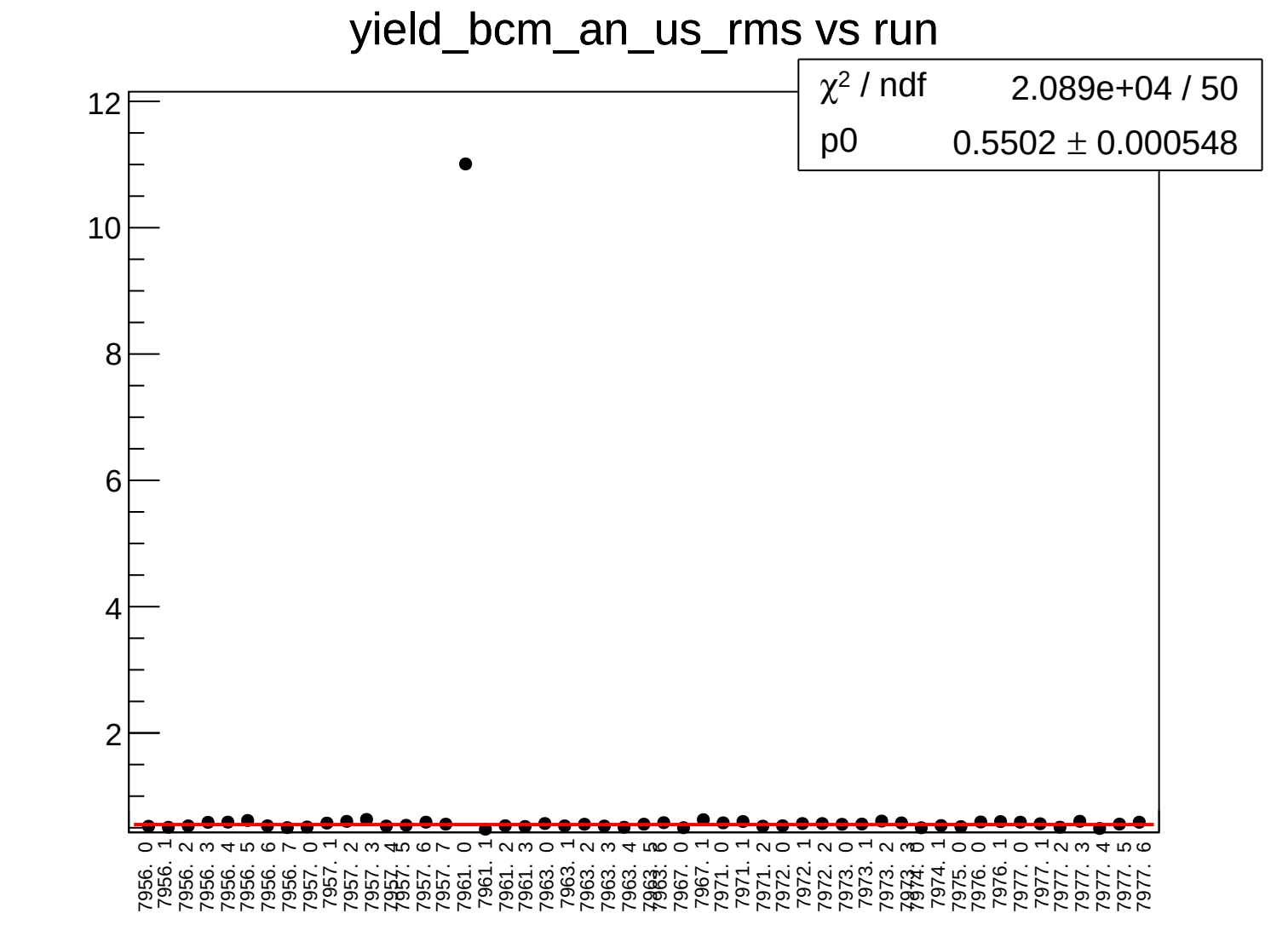
7977. 5
7977. 6


yield_bcm_an_us_mean vs run
χ² / ndf 1.46e+05 / 50
p0 145.1± 0.0007749
145.5
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 51
Mean −512.1
Std Dev 540.9
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140


pull1D
Entries 51
Mean −3.141
Std Dev 3.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ² / ndf 2.089e+04 / 50
p0 0.5502 ± 0.000548
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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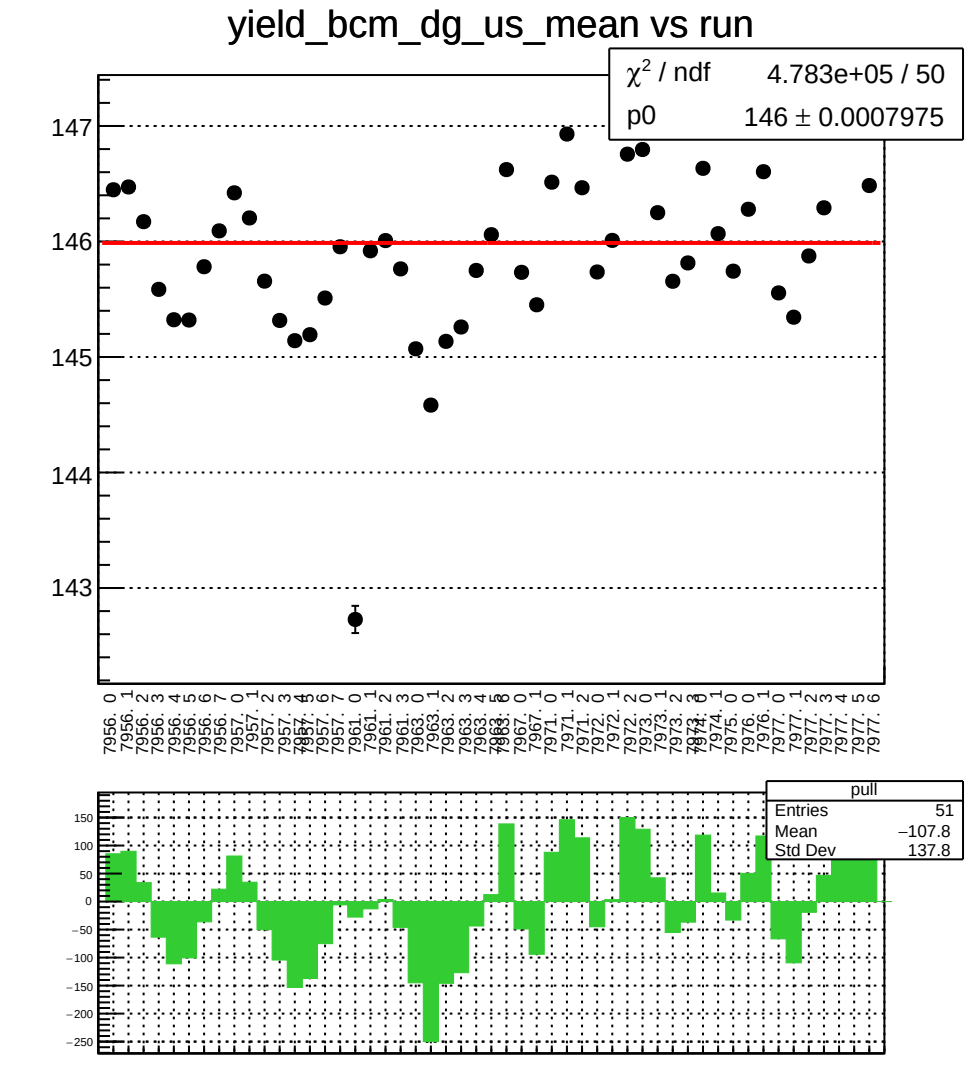
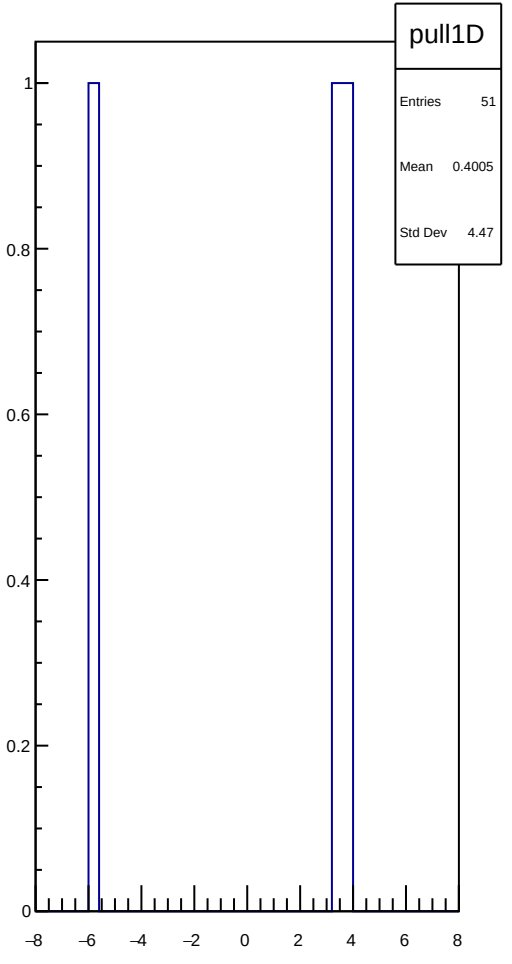
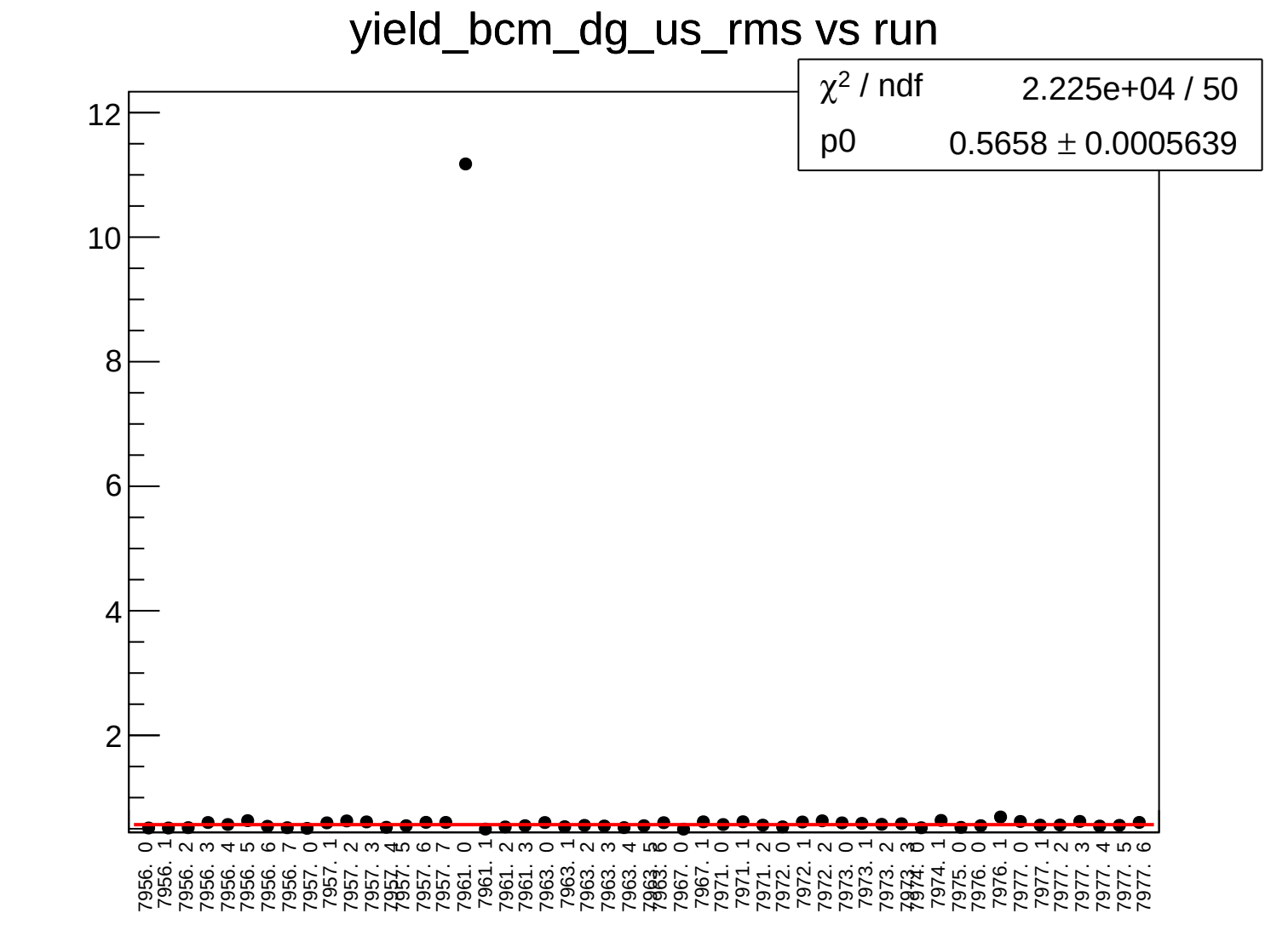
7977. 5
7977. 6


yield_bcm_dg_us_mean vs run
χ² / ndf 4.783e+05 / 50
p0 146 ± 0.0007975
147
146
145
144
143
pull
Entries 51
Mean −107.8
Std Dev 137.8
150
100
50
0
−50
−100
−150
−200
−250


pull1D
Entries 51
Mean 0.4005
Std Dev 4.47
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_us_rms vs run
χ² / ndf 2.225e+04 / 50
p0 0.5658 ± 0.0005639
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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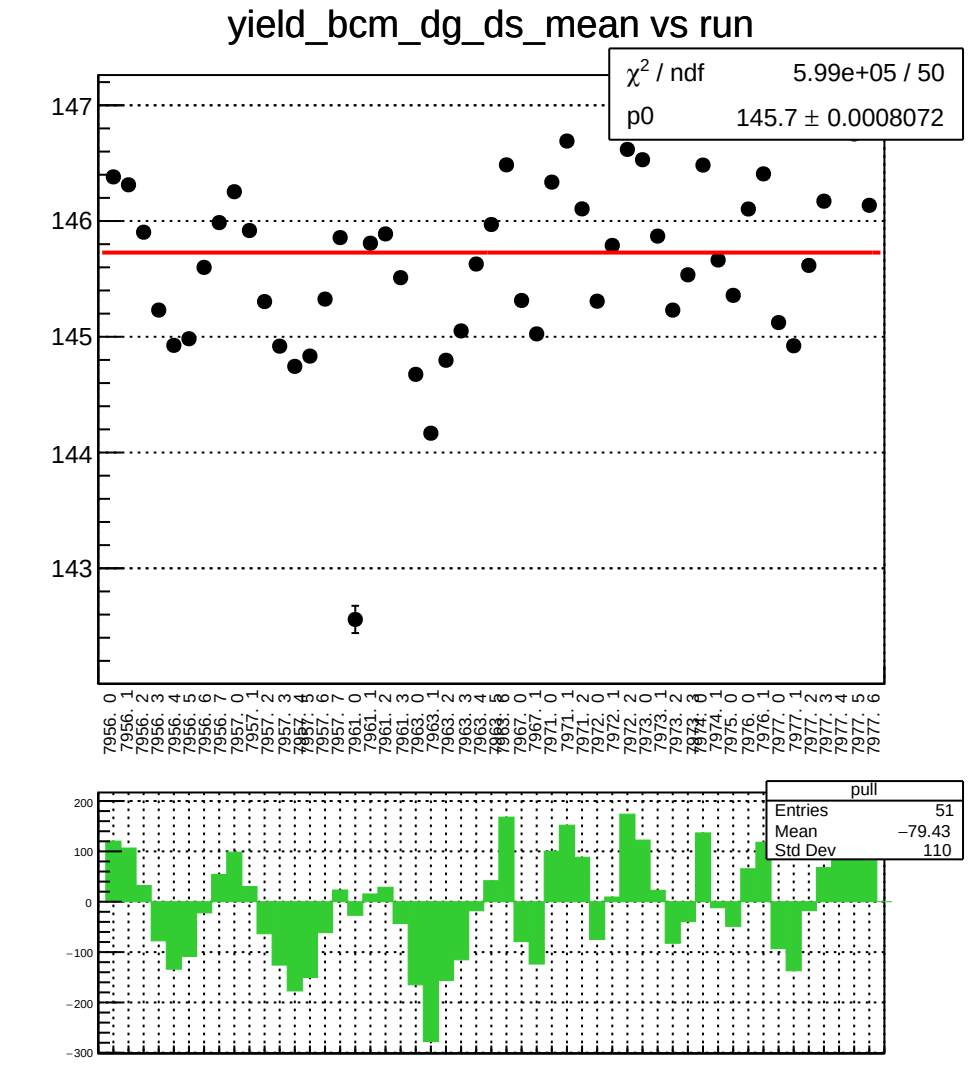
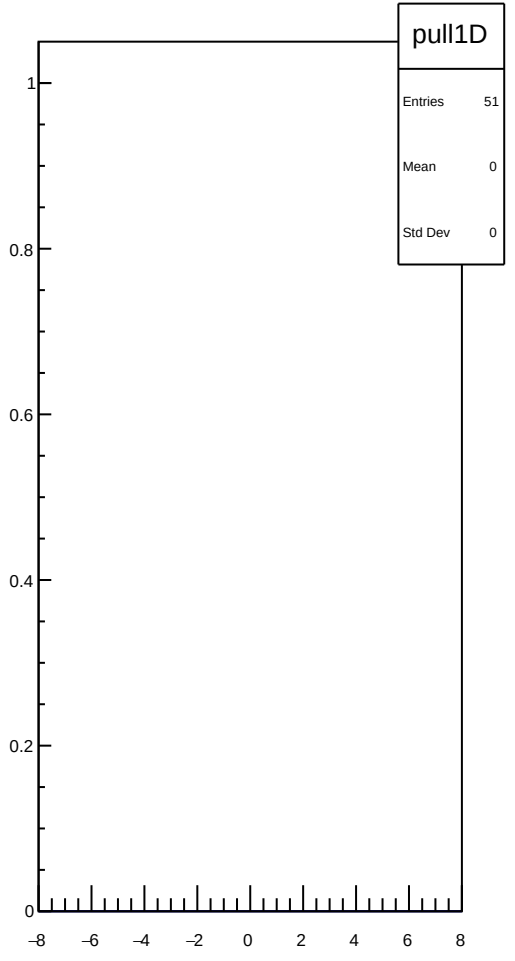
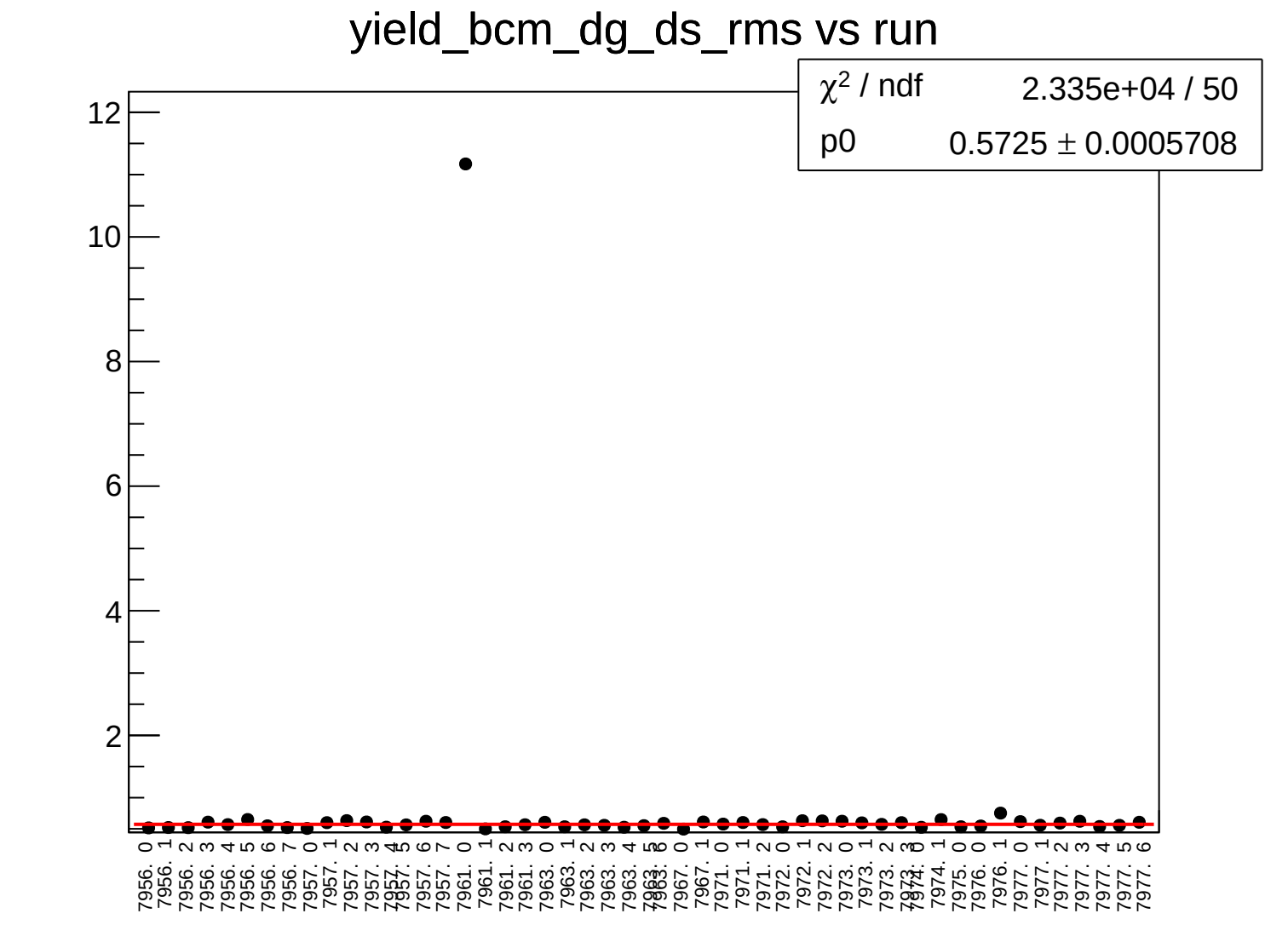
7977. 5
7977. 6


yield_bcm_dg_ds_mean vs run
χ² / ndf 5.99e+05 / 50
p0 145.7 ± 0.0008072
147
146
145
144
143
pull
Entries 51
Mean −79.43
Std Dev 110
200
100
0
−100
−200
−300


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


yield_bcm_dg_ds_rms vs run
χ² / ndf 2.335e+04 / 50
p0 0.5725 ± 0.0005708
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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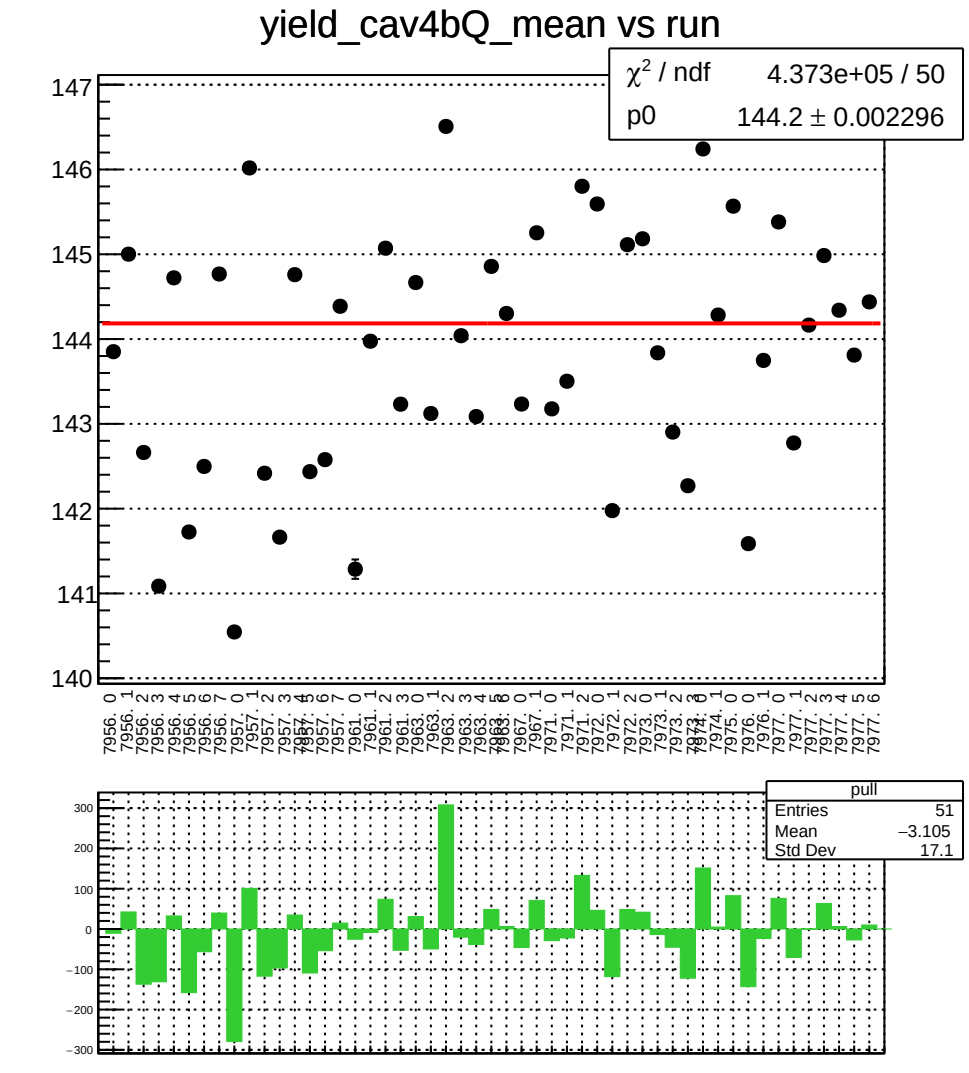
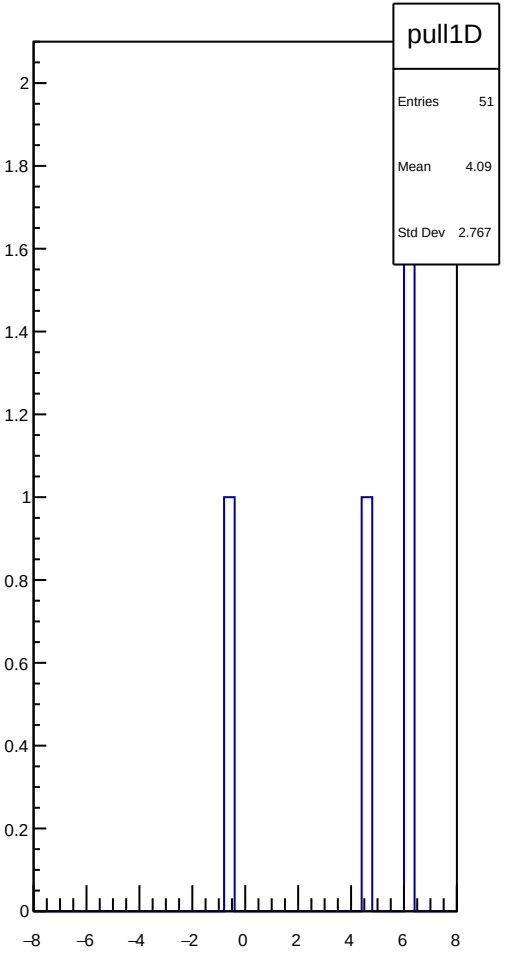
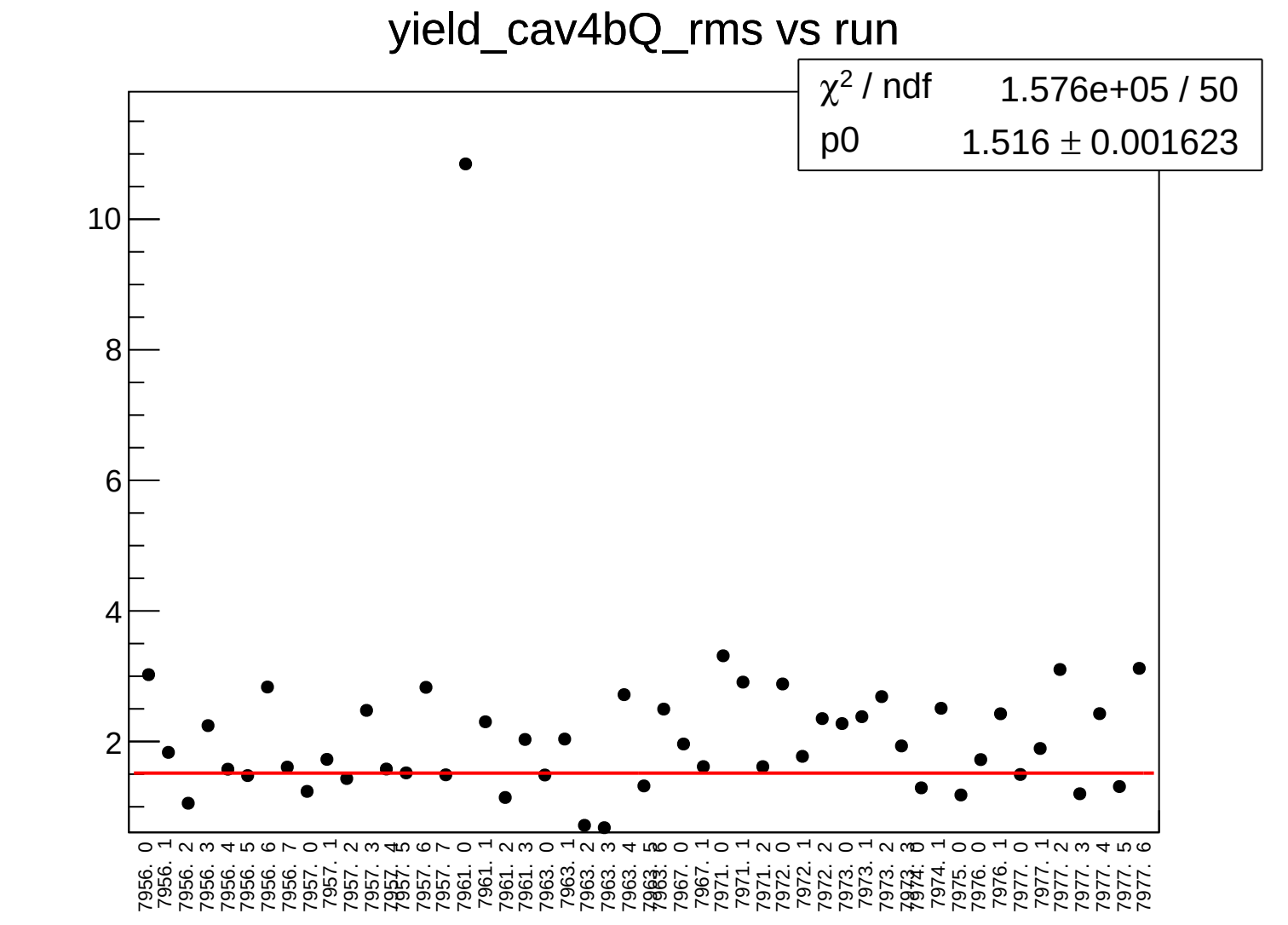
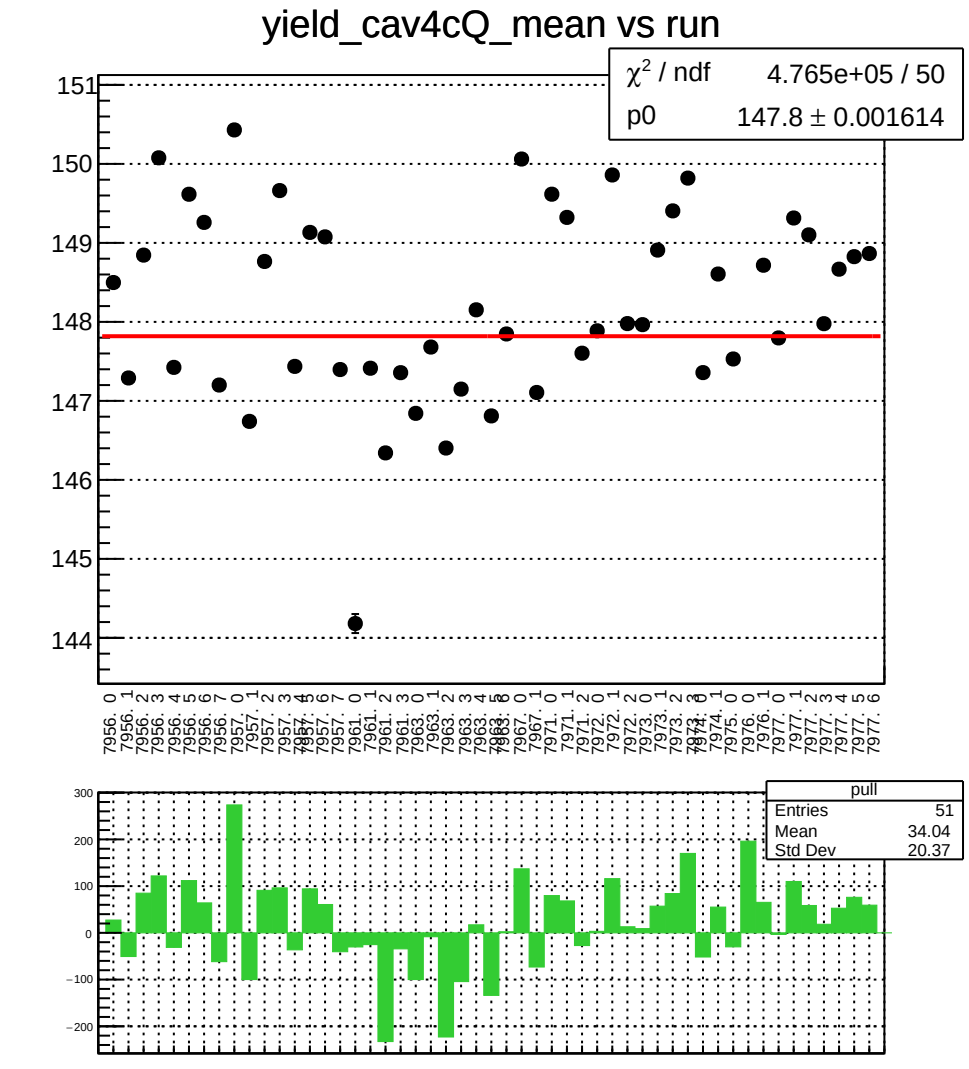
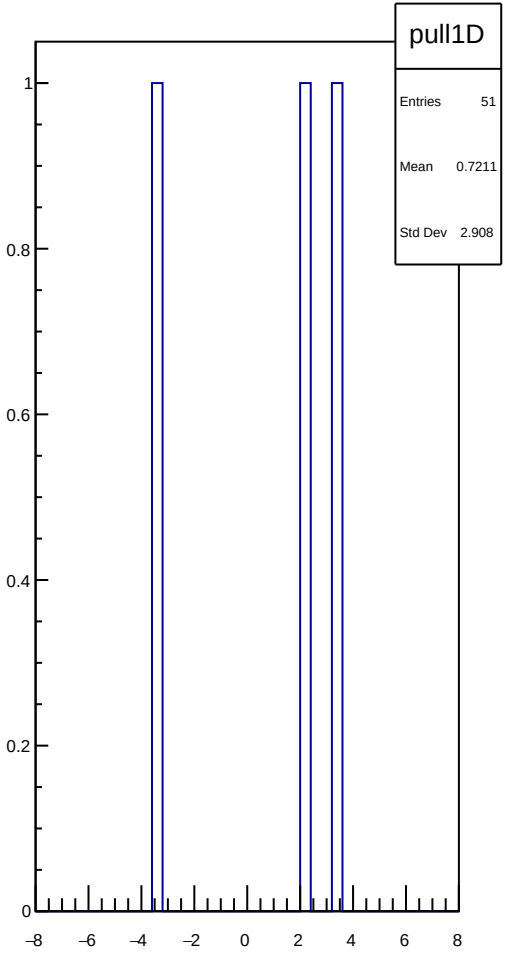
7977. 5
7977. 6

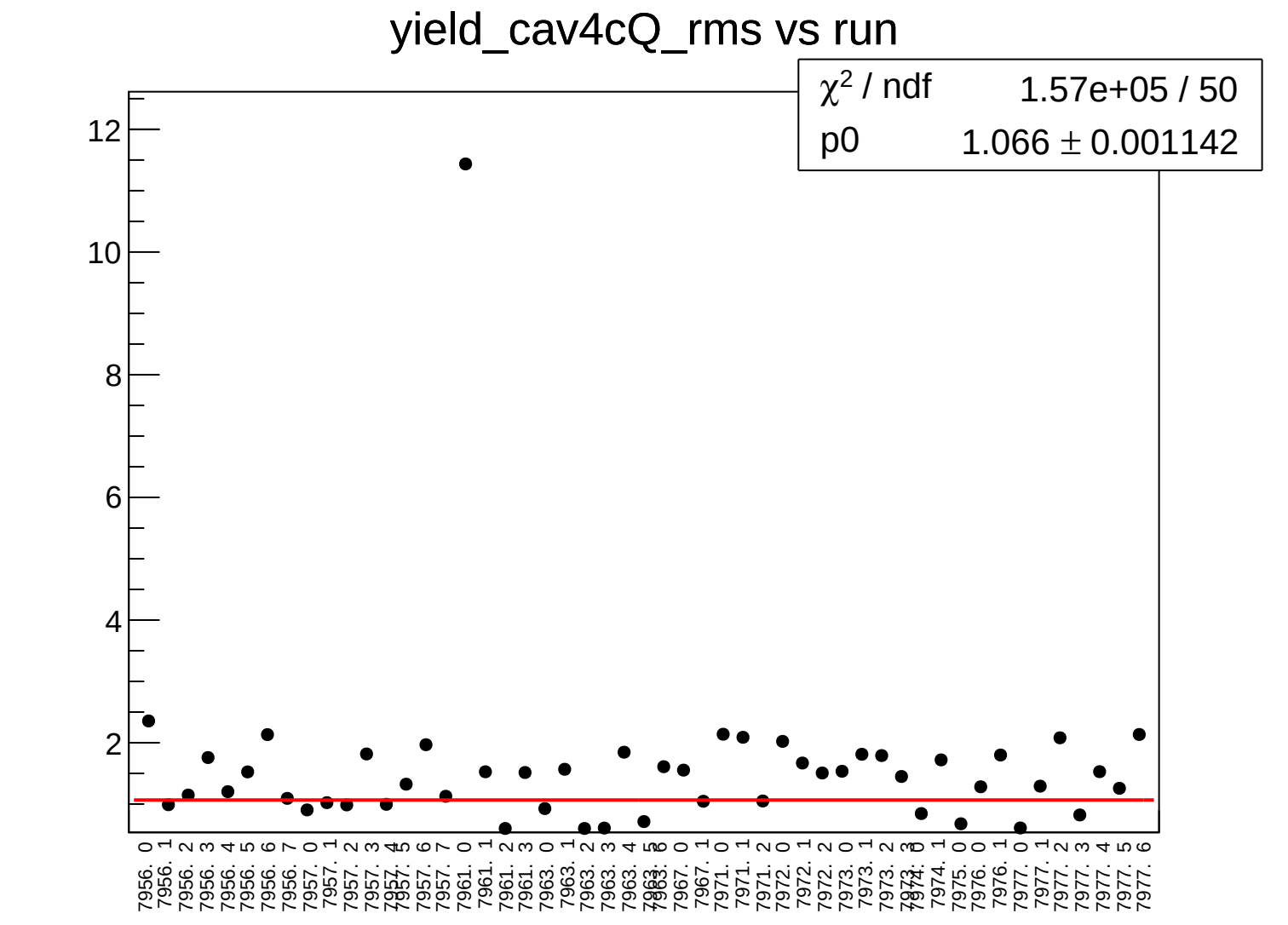

yield_cav4bQ_mean vs run
χ² / ndf 4.373e+05 / 50
p0 144.2 ± 0.002296
pull
Entries 51
Mean −3.105
Std Dev 17.1


pull1D
Entries 51
Mean 4.09
Std Dev 2.767


yield_cav4bQ_rms vs run
χ^2 / ndf 1.576e+05 / 50
p0 1.516 ± 0.001623
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_cav4cQ_mean vs run
χ² / ndf 4.765e+05 / 50
p0 147.8 ± 0.001614
151
150
149
148
147
146
145
144
pull
Entries 51
Mean 34.04
Std Dev 20.37
300
200
100
0
−100
−200


pull1D
Entries 51
Mean 0.7211
Std Dev 2.908
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cQ_rms vs run
χ² / ndf 1.57e+05 / 50
p0 1.066 ± 0.001142
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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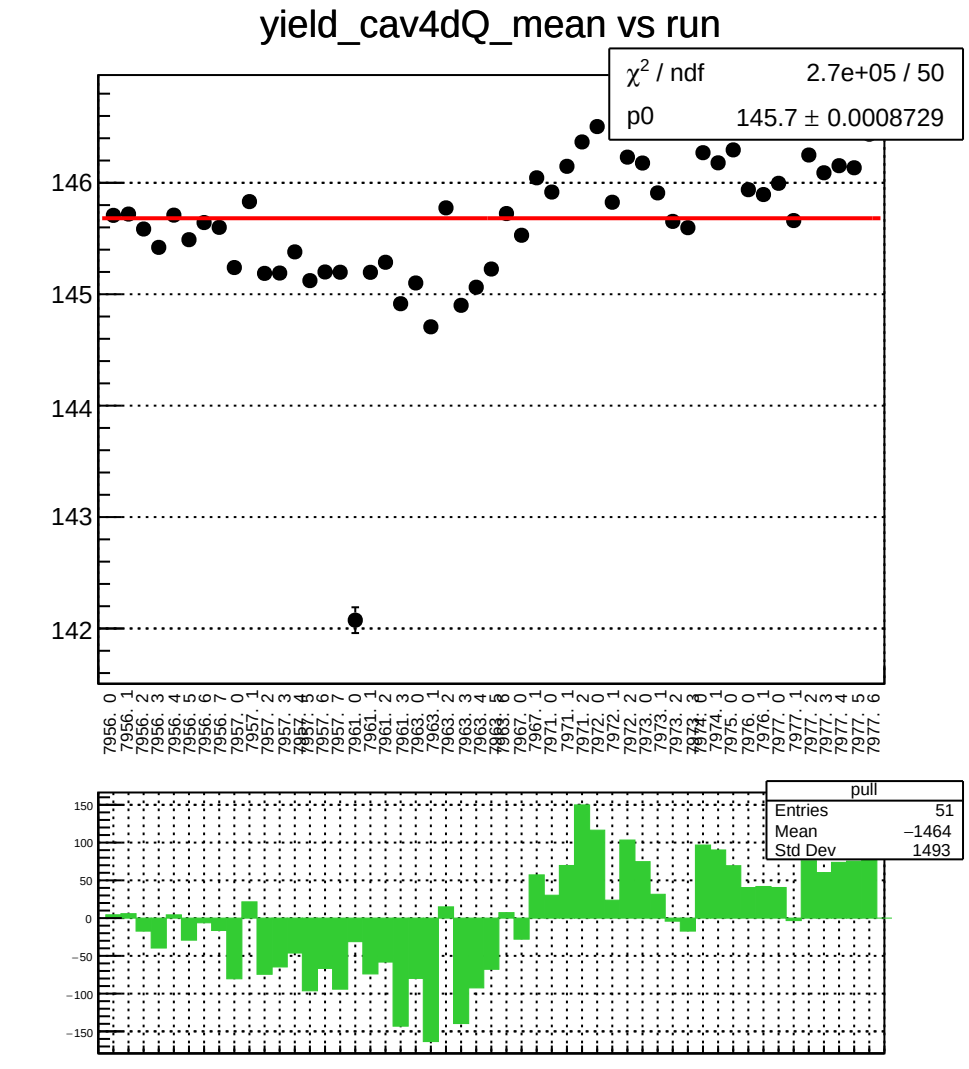
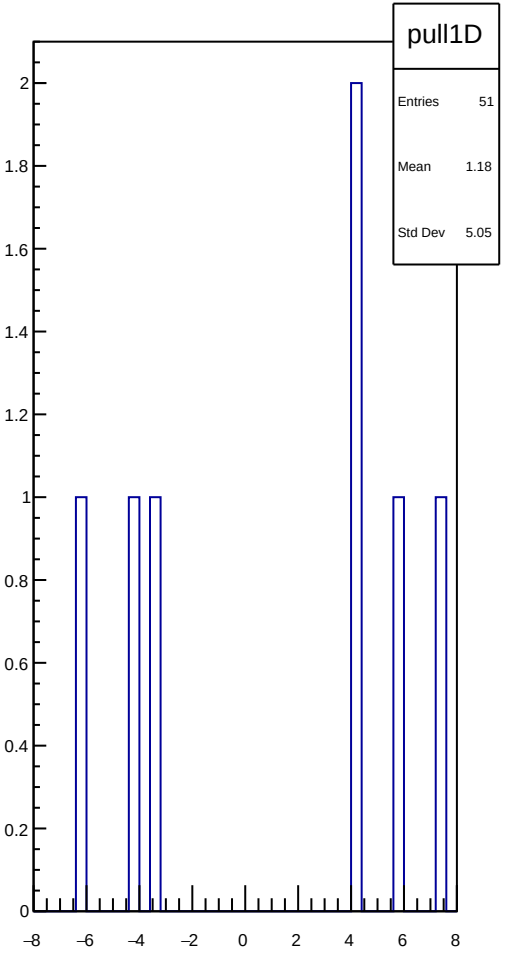
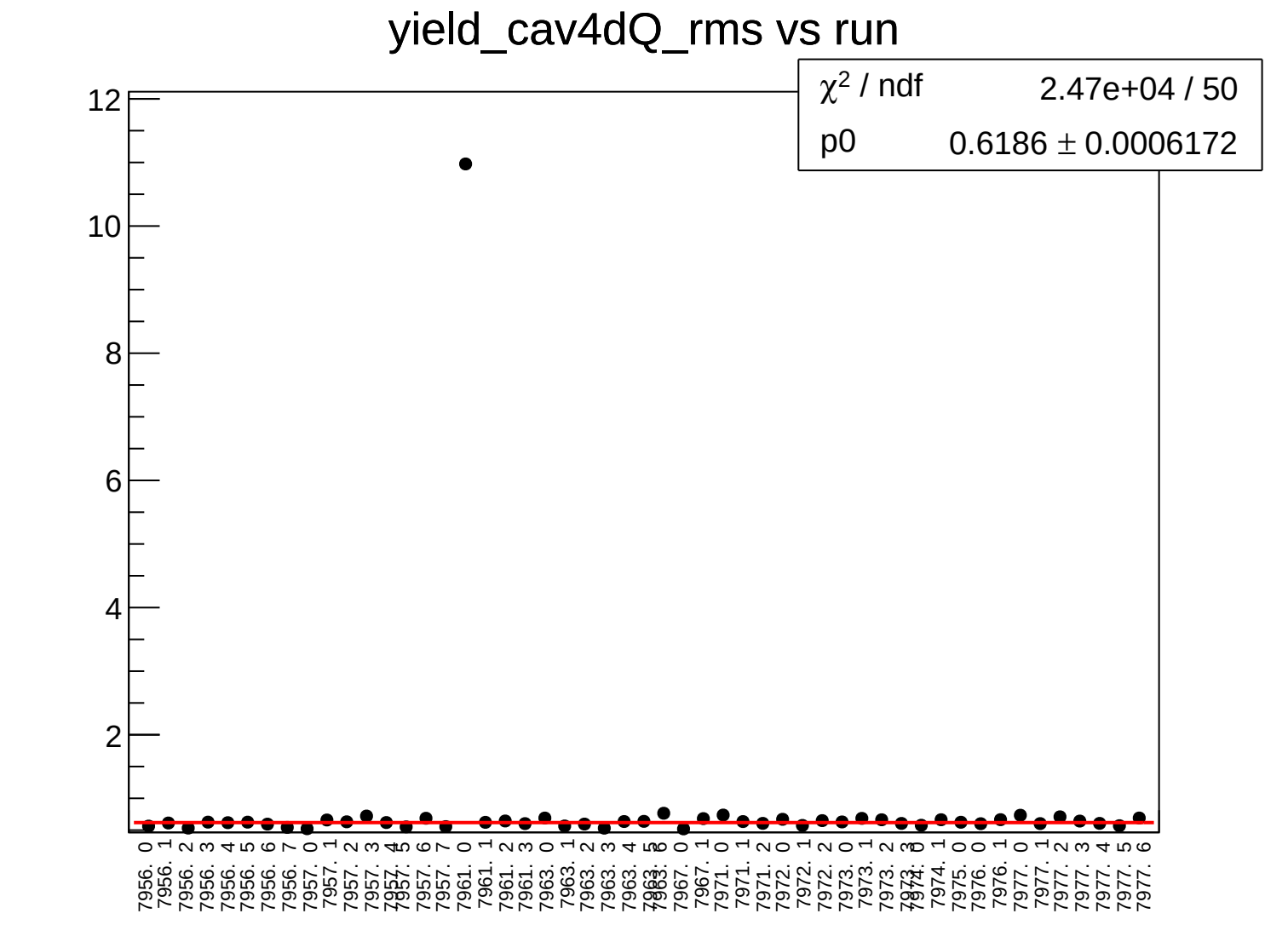
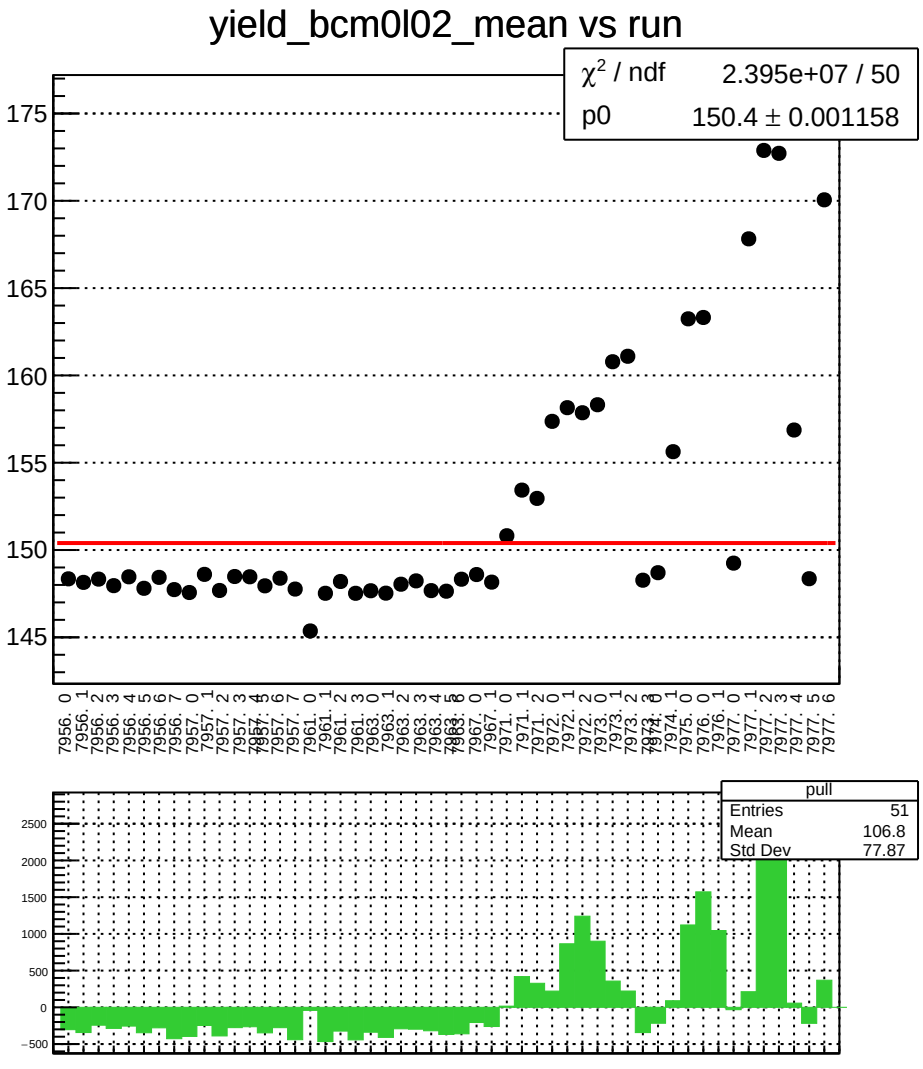
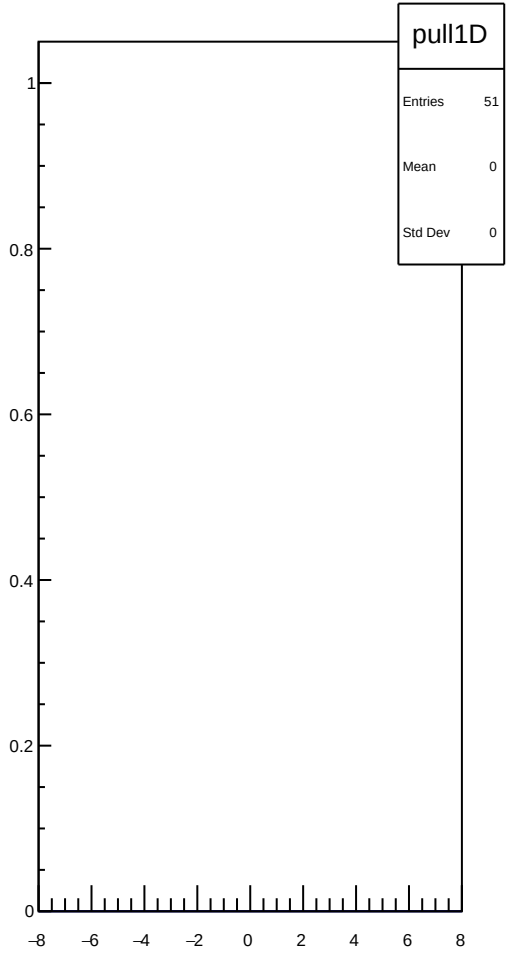
7977. 5
7977. 6

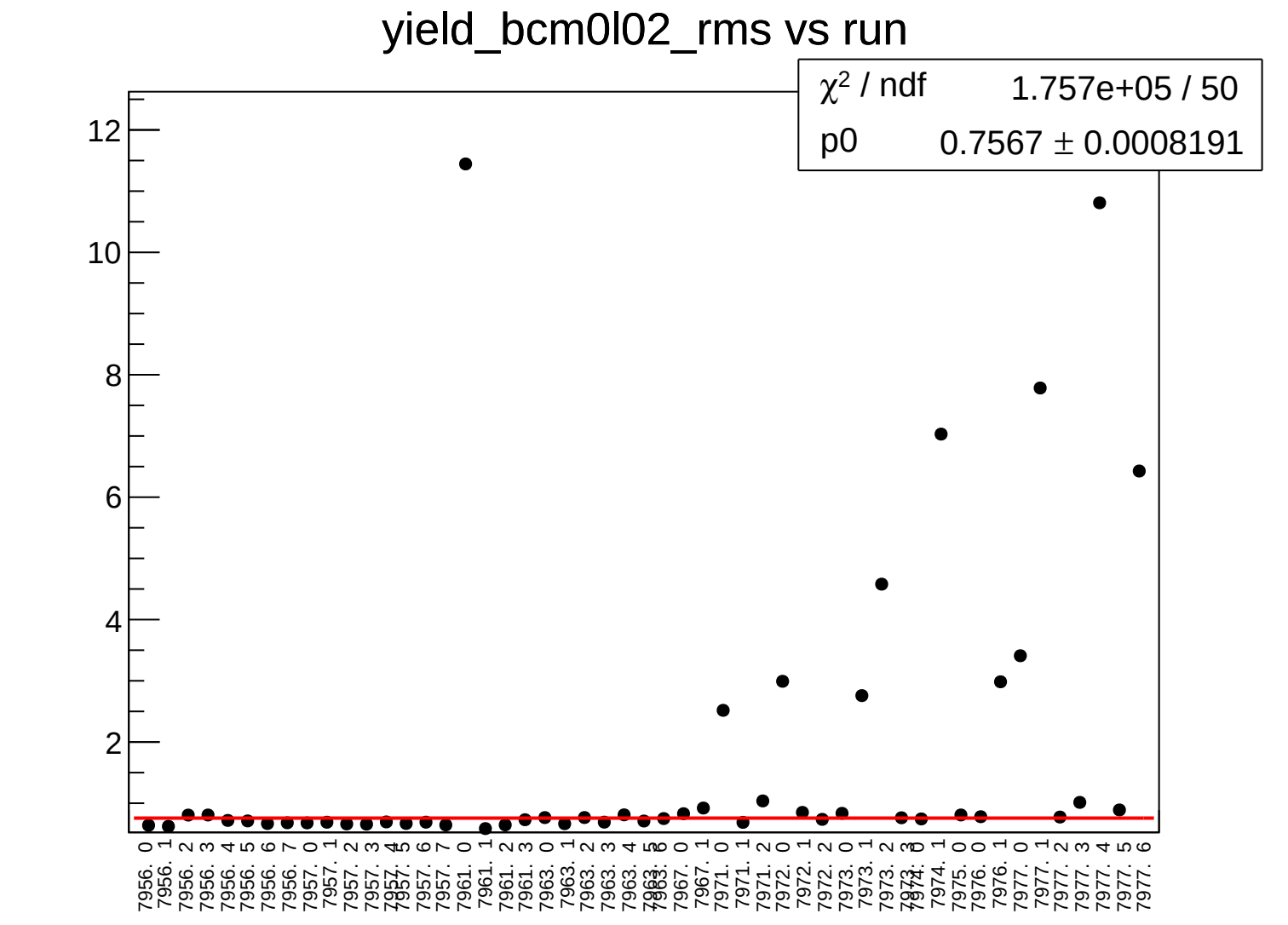

yield_cav4dQ_mean vs run
χ² / ndf 2.7e+05 / 50
p0 145.7 ± 0.0008729
146
145
144
143
142
pull
Entries 51
Mean −1464
Std Dev 1493
150
100
50
0
−50
−100
−150

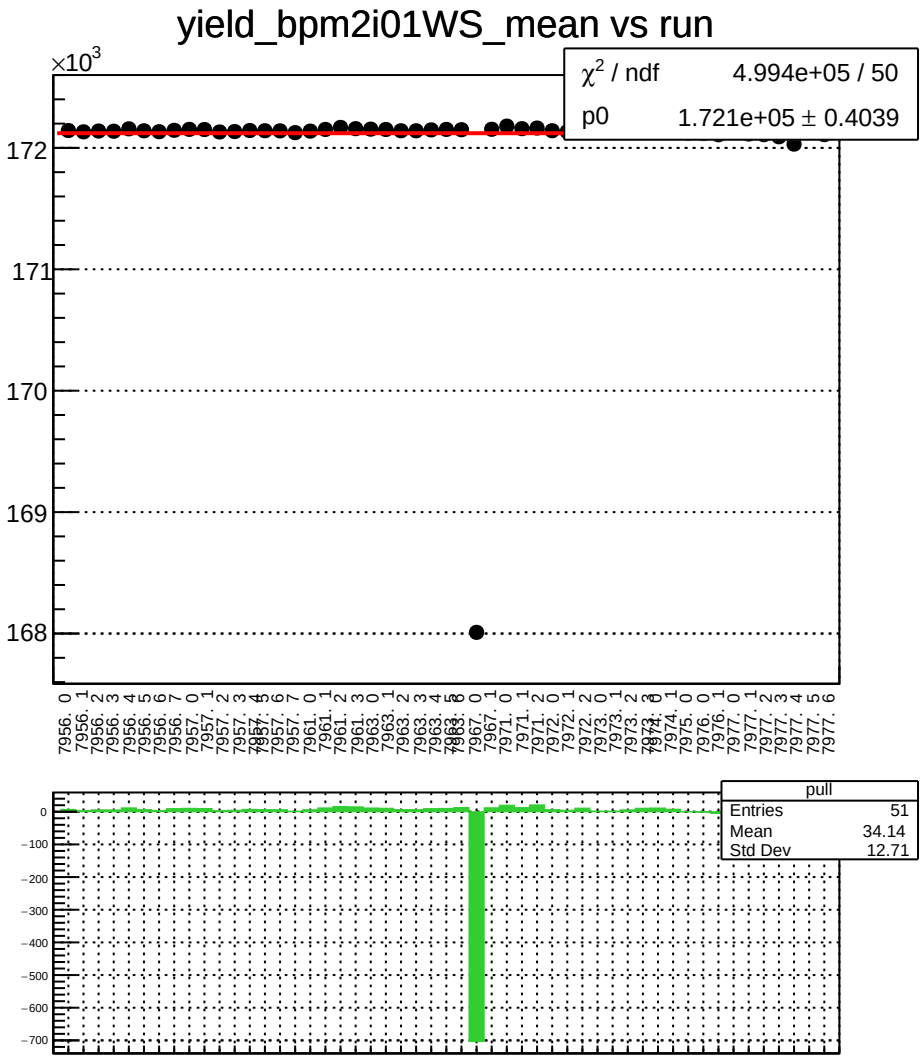

pull1D
Entries 51
Mean 1.18
Std Dev 5.05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

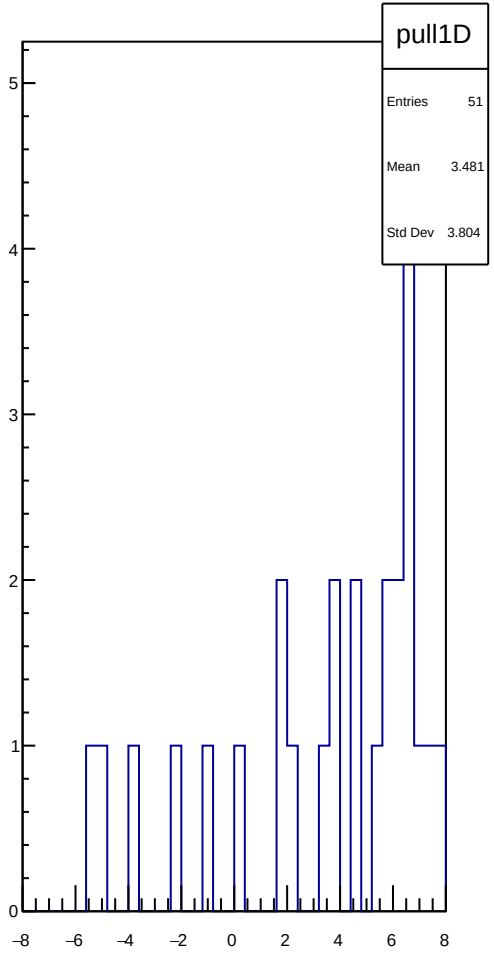

yield_cav4dQ_rms vs run
χ² / ndf 2.47e+04 / 50
p0 0.6186 ± 0.0006172
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

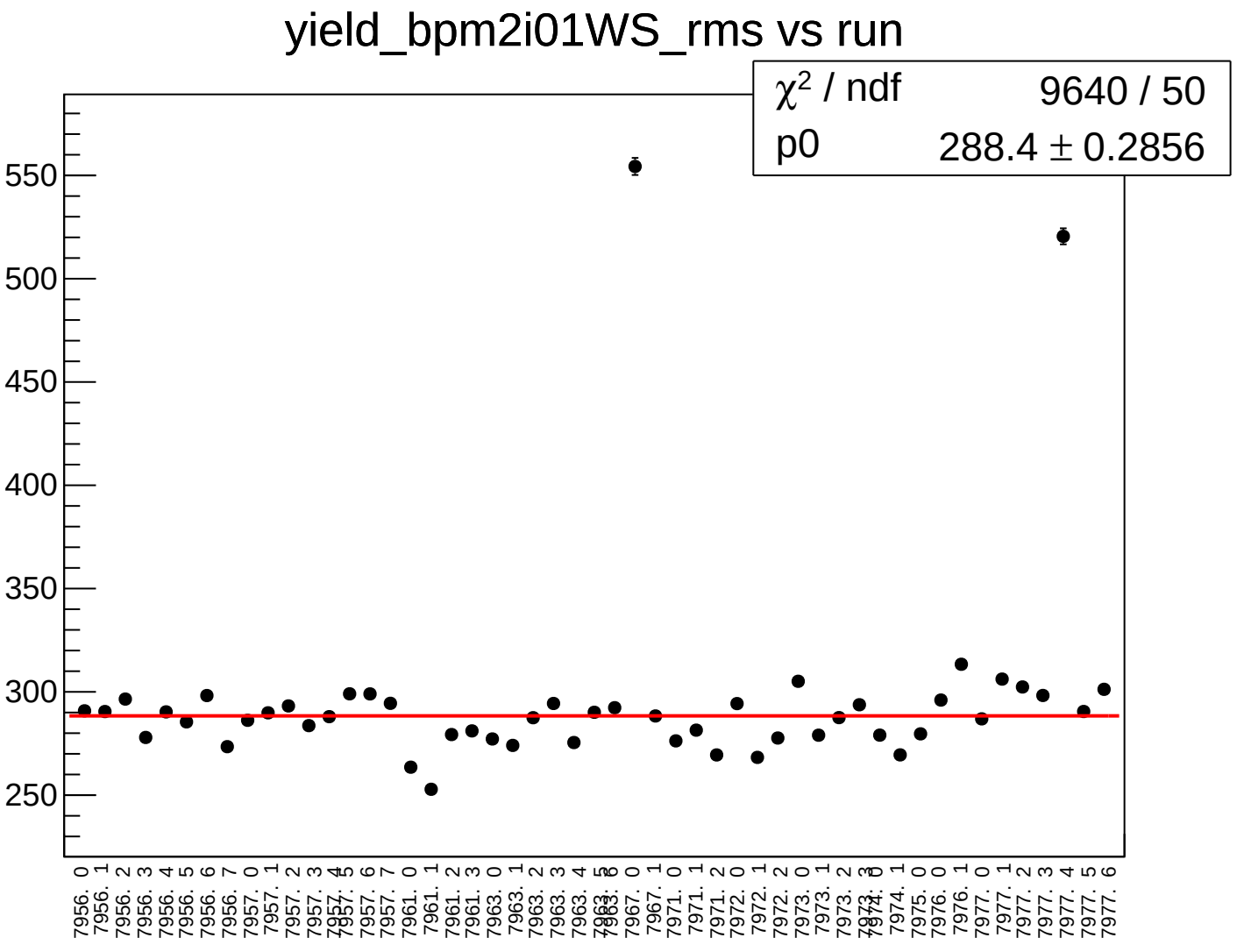

yield_bcm0l02_mean vs run
χ² / ndf 2.395e+07 / 50
p0 150.4 ± 0.001158
175
170
165
160
155
150
145
pull
Entries 51
Mean 106.8
Std Dev 77.87
2500
2000
1500
1000
500
0
−500

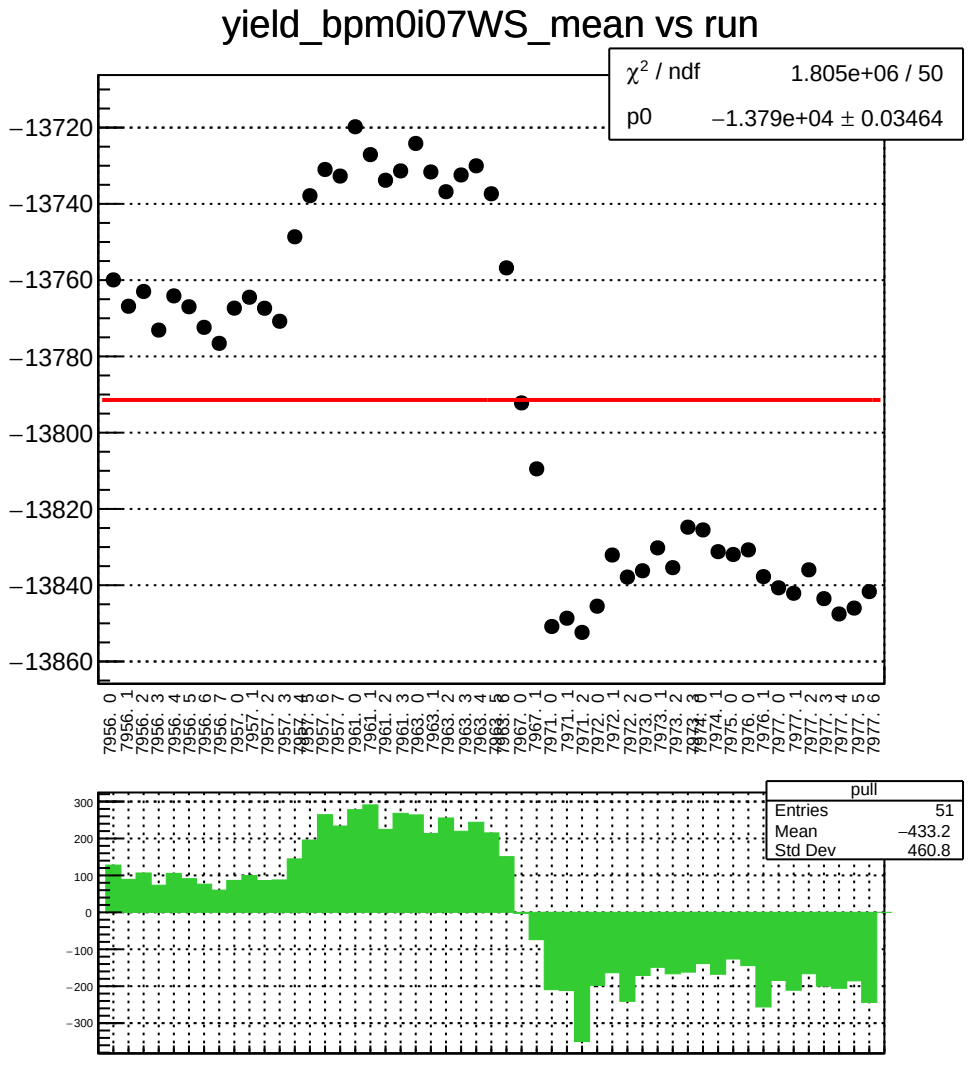

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

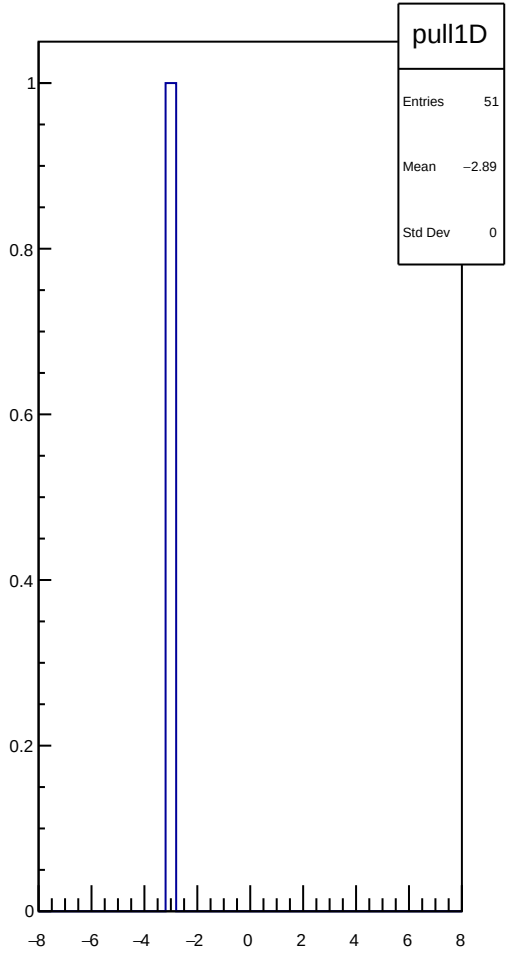

yield_bcm0l02_rms vs run
χ² / ndf 1.757e+05 / 50
p0 0.7567 ± 0.0008191
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

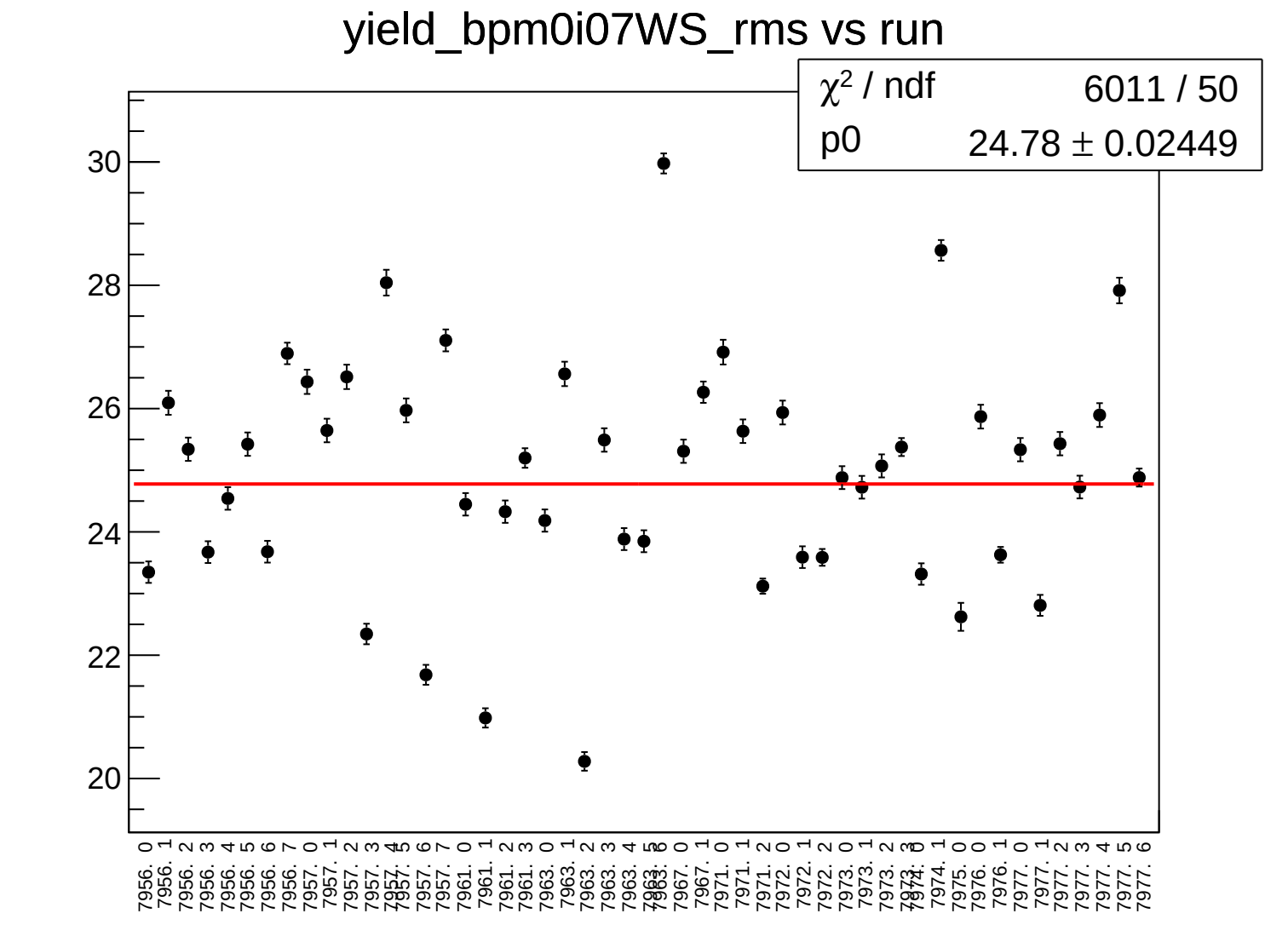

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4.994e+05 / 50
p0 1.721e+05 ± 0.4039
172
171
170
169
168
pull
Entries 51
Mean 34.14
Std Dev 12.71
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 51
Mean 3.481
Std Dev 3.804
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i01WS_rms vs run
χ² / ndf 9640 / 50
p0 288.4 ± 0.2856
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm0i07WS_mean vs run
χ² / ndf 1.805e+06 / 50
p0 −1.379e+04 ± 0.03464
−13720
−13740
−13760
−13780
−13800
−13820
−13840
−13860
pull
Entries 51
Mean −433.2
Std Dev 460.8
300
200
100
0
−100
−200
−300


pull1D
Entries 51
Mean −2.89
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07WS_rms vs run
χ² / ndf 6011 / 50
p0 24.78 ± 0.02449
30
28
26
24
22
20
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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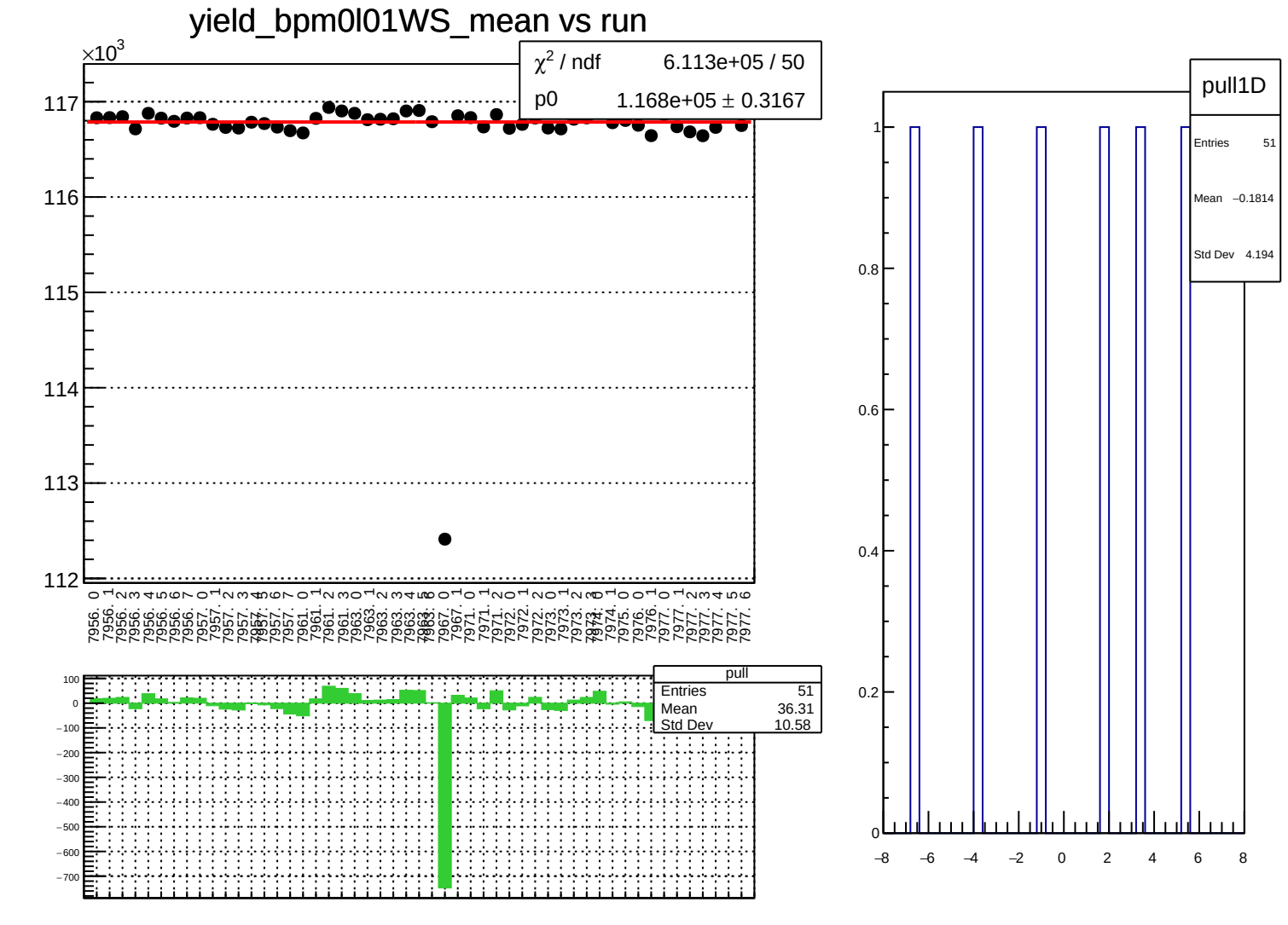
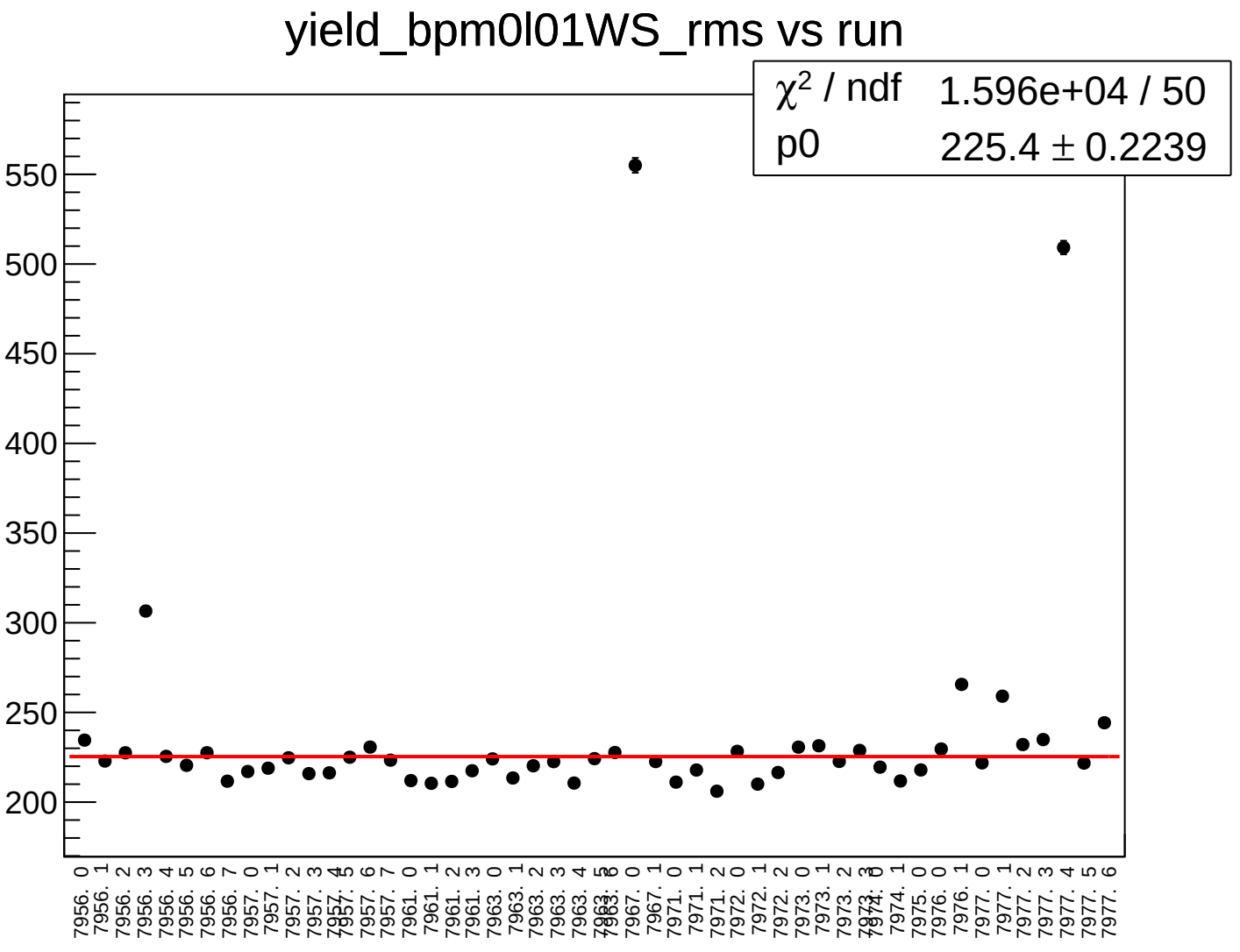
7977. 5
7977. 6


yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.113e+05 / 50
p0 1.168e+05 ± 0.3167
117
116
115
114
113
112
pull
Entries 51
Mean 36.31
Std Dev 10.58
100
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 51
Mean −0.1814
Std Dev 4.194
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l01WS_rms vs run
χ² / ndf 1.596e+04 / 50
p0 225.4 ± 0.2239
550
500
450
400
350
300
250
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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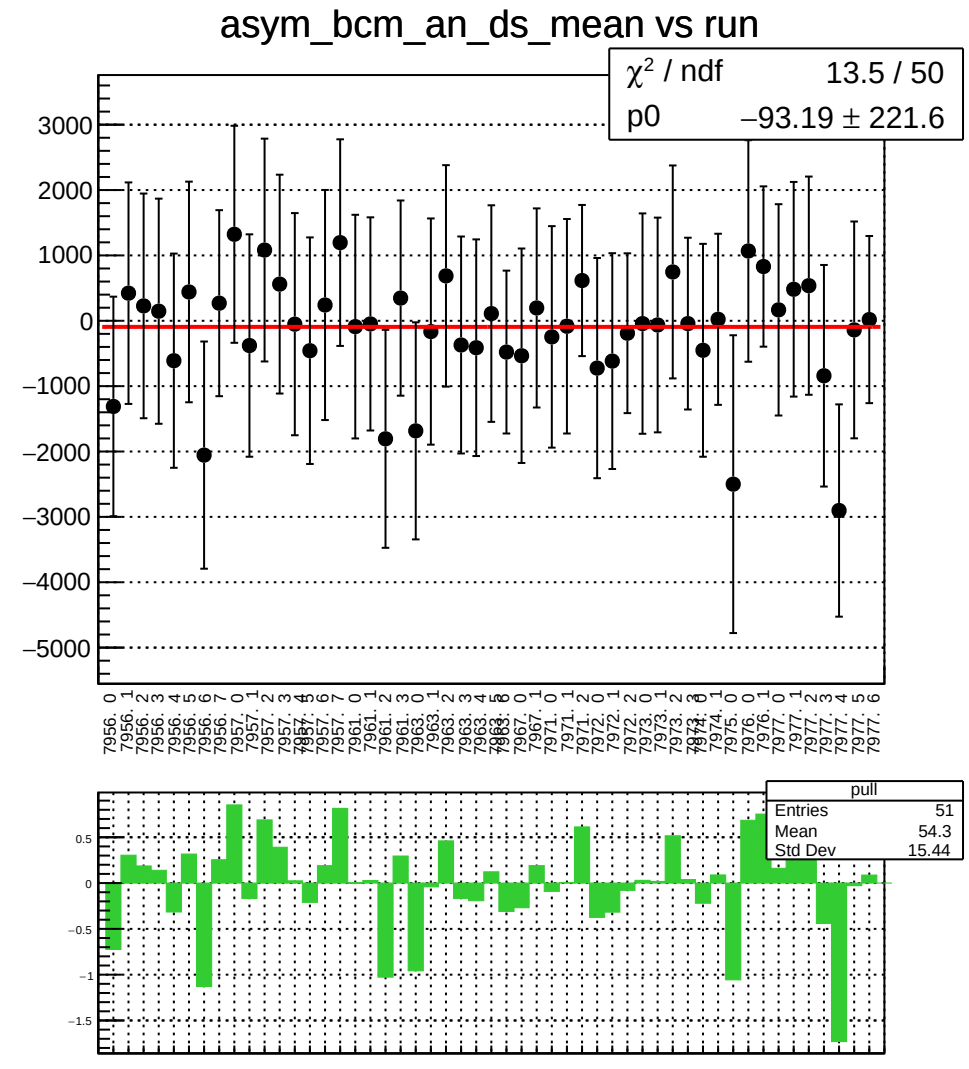
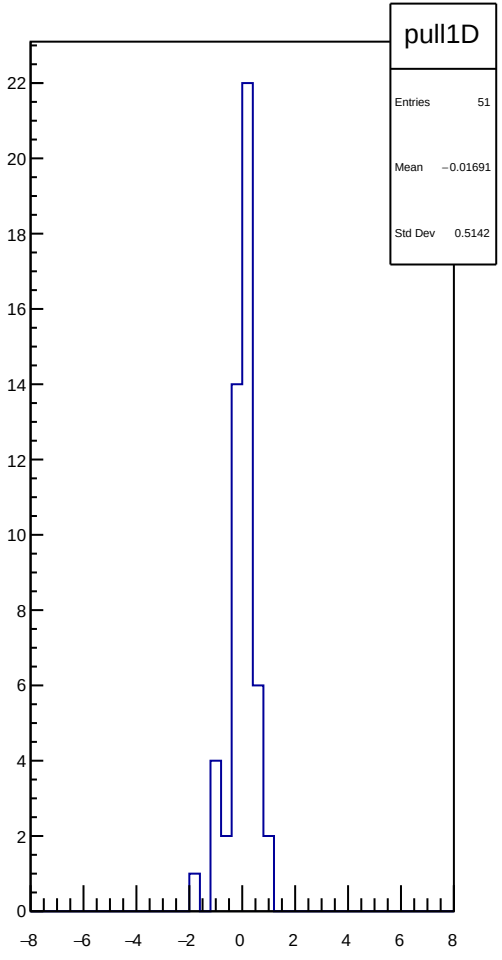
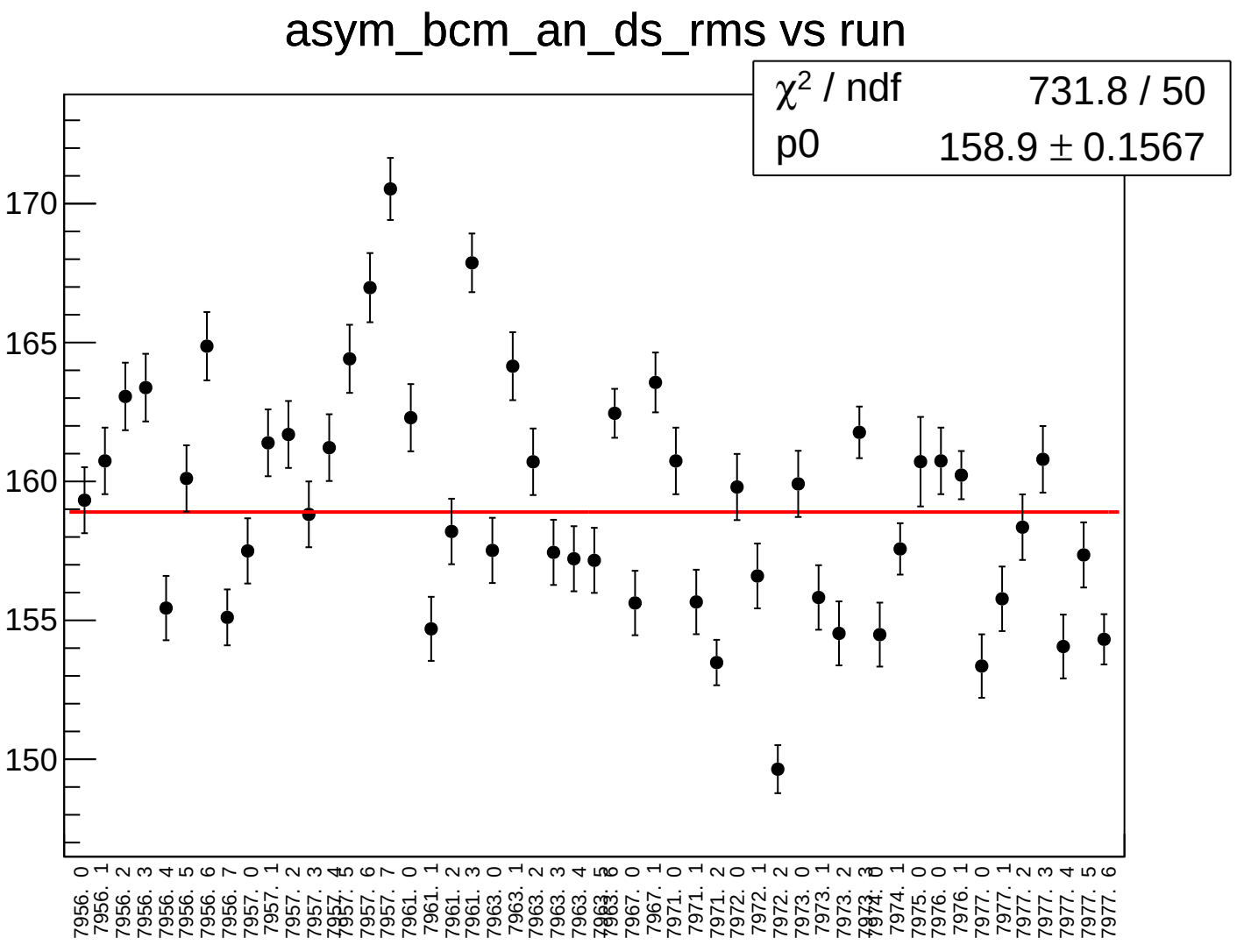
7977. 5
7977. 6


asym_bcm_an_ds_mean vs run
χ² / ndf 13.5 / 50
p0 −93.19 ± 221.6
pull
Entries 51
Mean 54.3
Std Dev 15.44


pull1D
Entries 51
Mean −0.01691
Std Dev 0.5142


asym_bcm_an_ds_rms vs run
χ² / ndf 731.8 / 50
p0 158.9 ± 0.1567
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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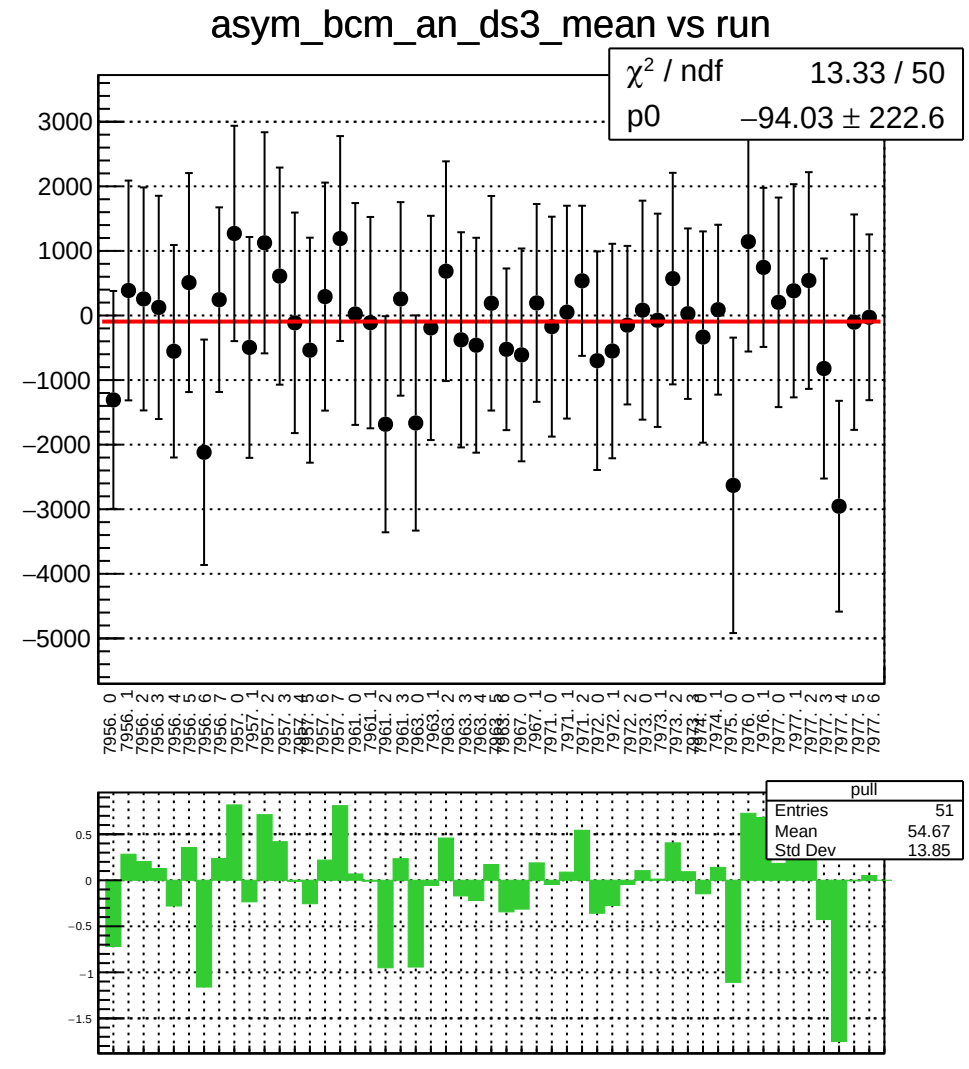
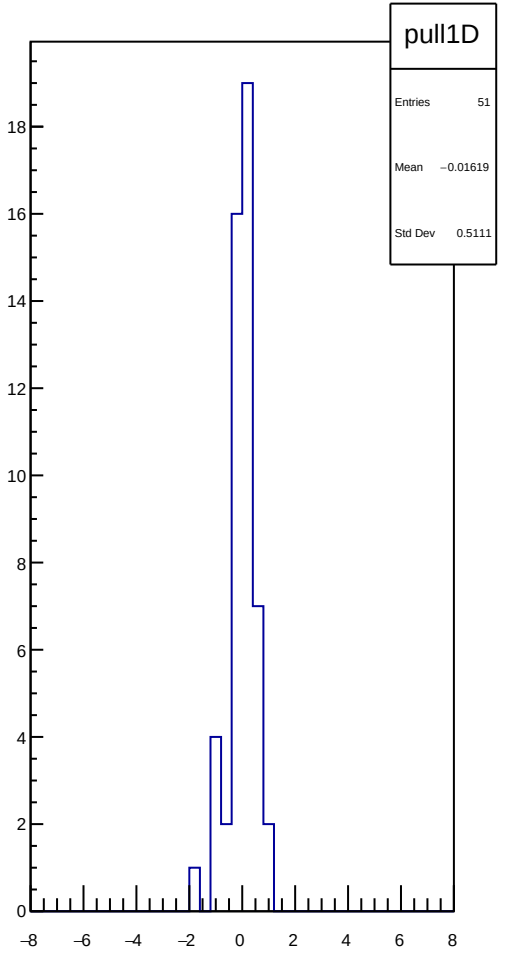
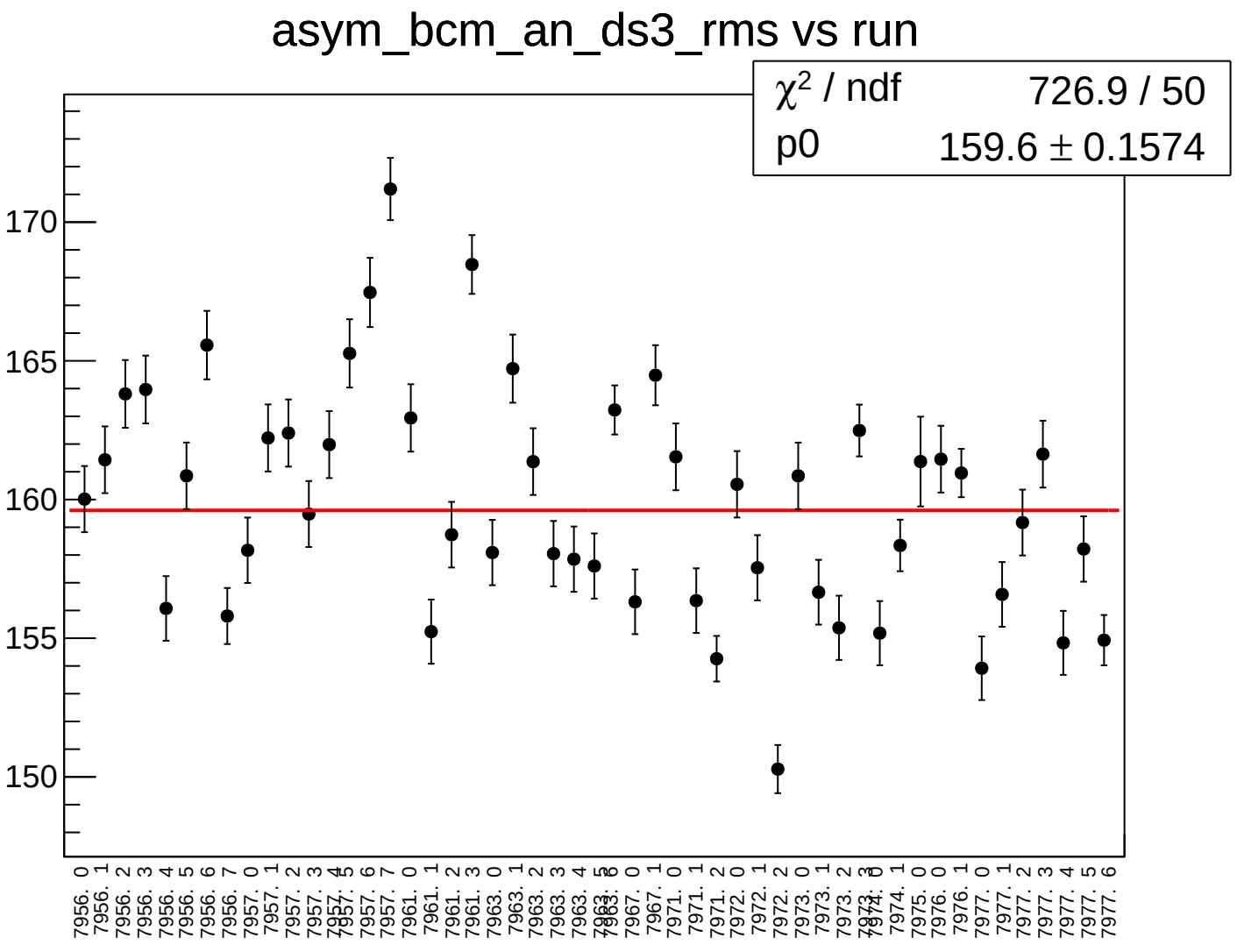
7977. 5
7977. 6


asym_bcm_an_ds3_mean vs run
χ² / ndf 13.33 / 50
p0 −94.03 ± 222.6
pull
Entries 51
Mean 54.67
Std Dev 13.85


pull1D
Entries 51
Mean −0.01619
Std Dev 0.5111


asym_bcm_an_ds3_rms vs run
χ² / ndf 726.9 / 50
p0 159.6 ± 0.1574
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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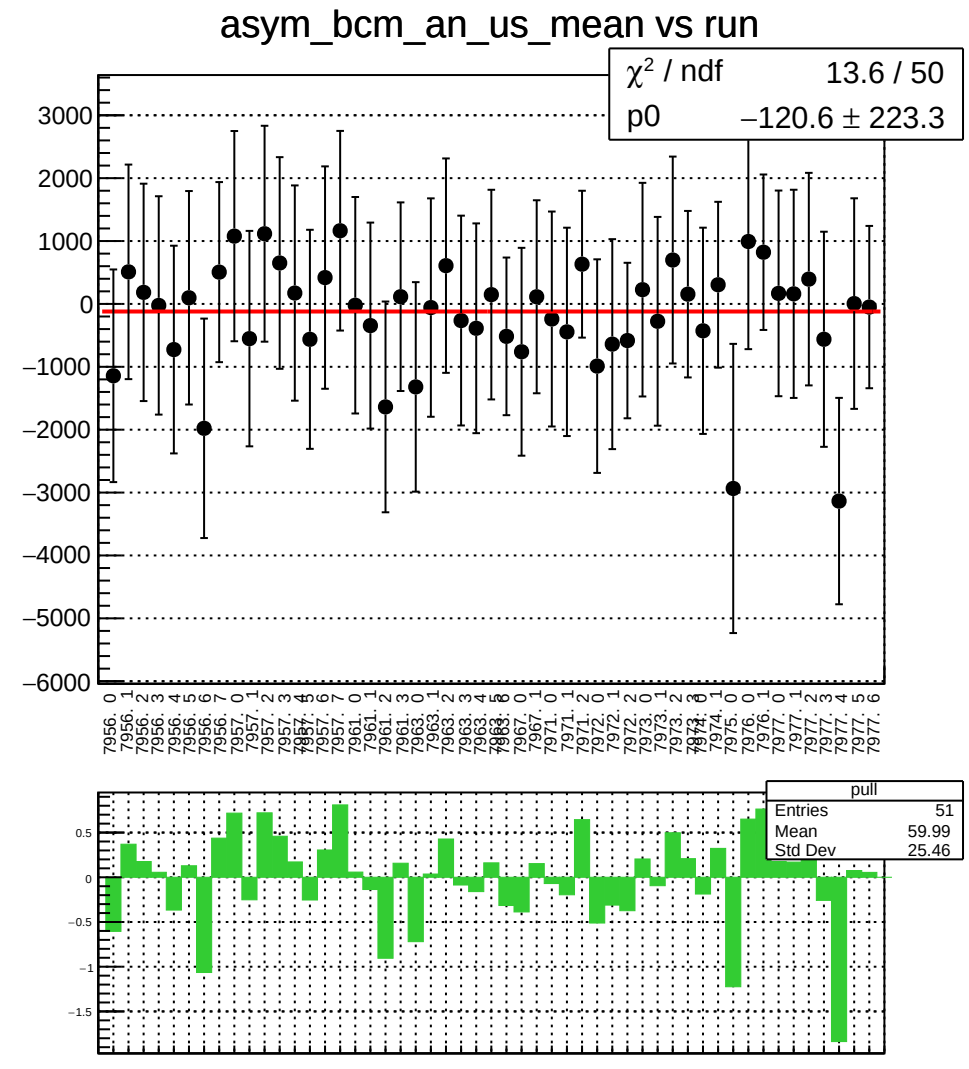
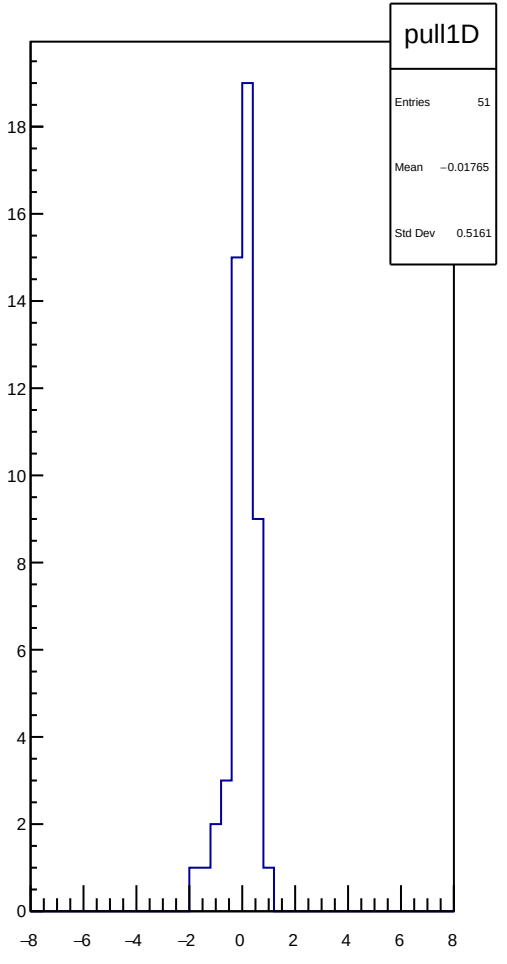
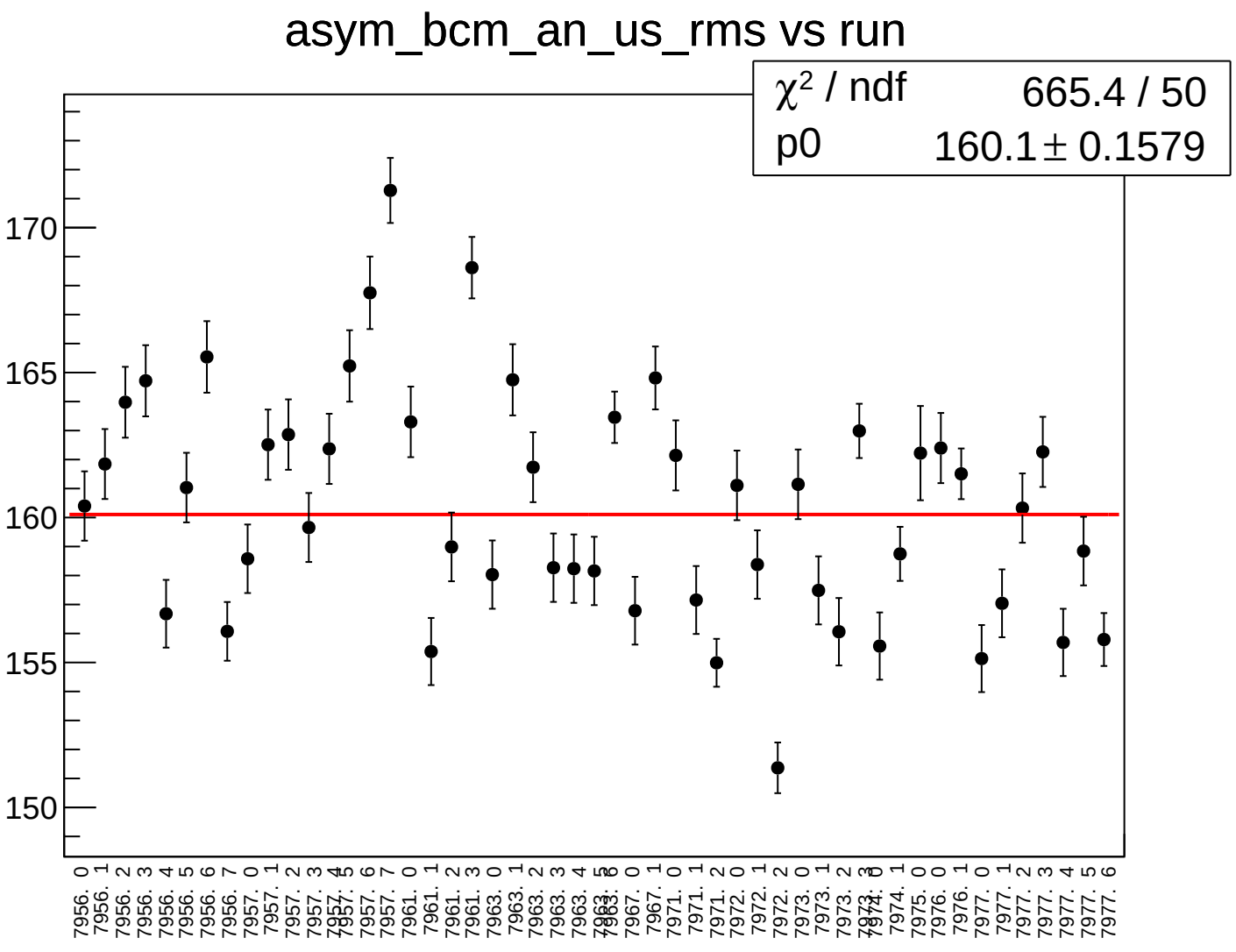
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_an_us_mean vs run
χ² / ndf 13.6 / 50
p0 −120.6 ± 223.3
pull
Entries 51
Mean 59.99
Std Dev 25.46


pull1D
Entries 51
Mean −0.01765
Std Dev 0.5161


asym_bcm_an_us_rms vs run
χ² / ndf 665.4 / 50
p0 160.1 ± 0.1579
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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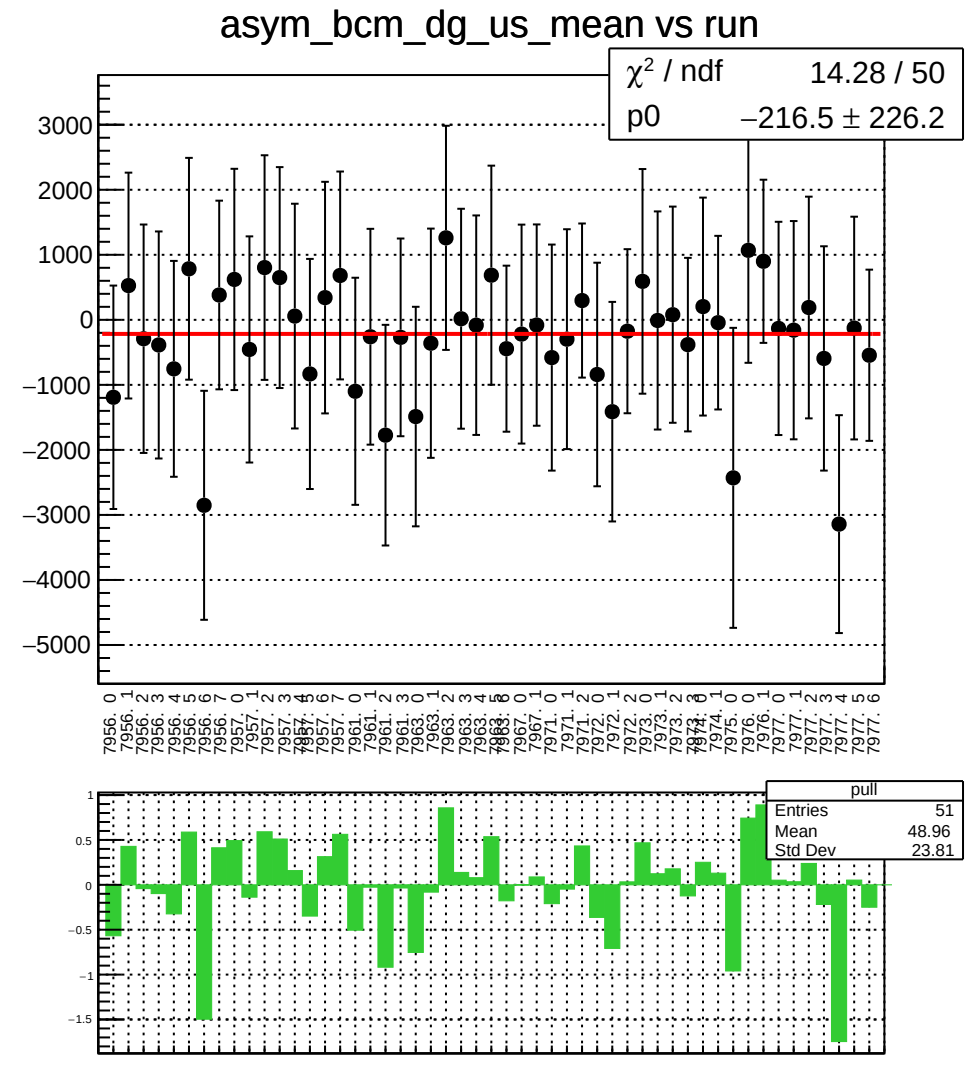
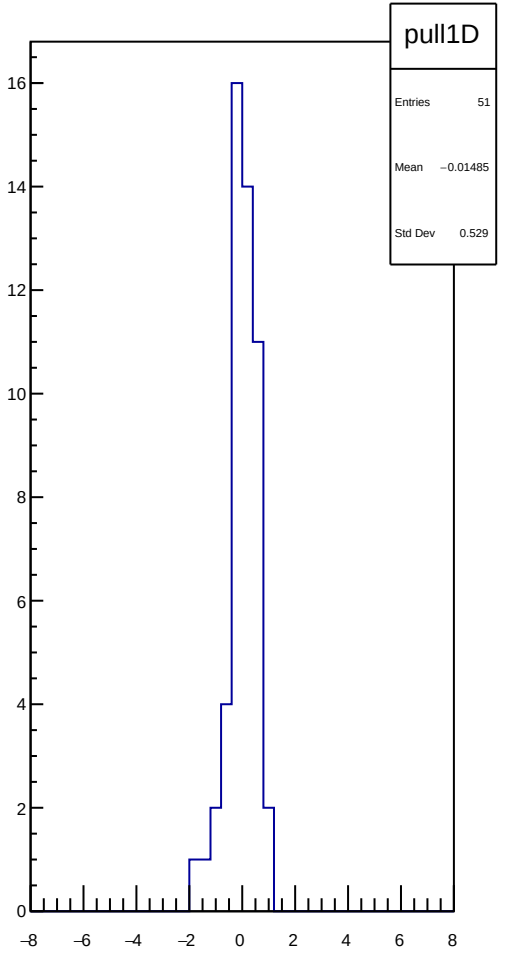
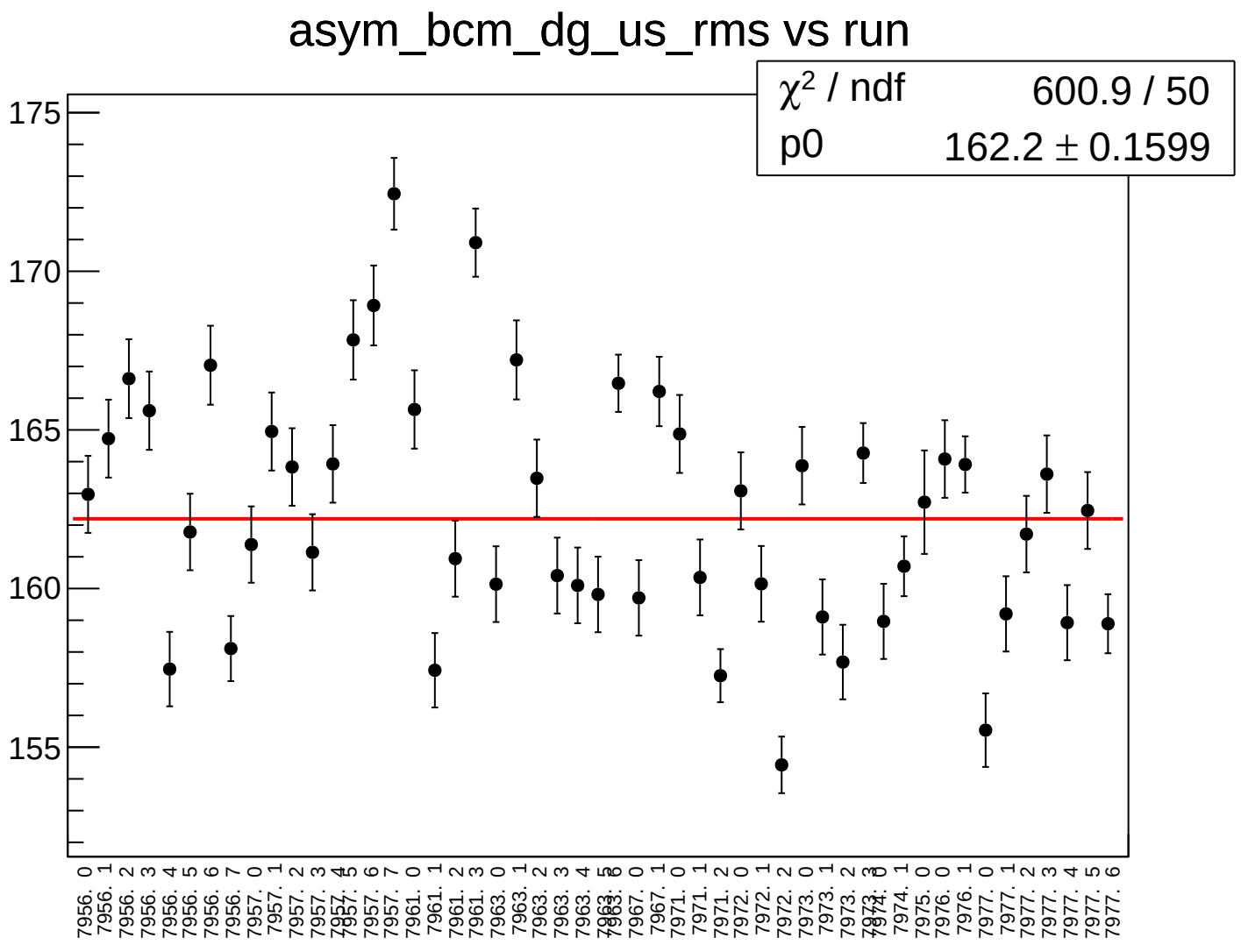
7977. 5
7977. 6


asym_bcm_dg_us_mean vs run
χ² / ndf 14.28 / 50
p0 −216.5 ± 226.2
pull
Entries 51
Mean 48.96
Std Dev 23.81


pull1D
Entries 51
Mean −0.01485
Std Dev 0.529


asym_bcm_dg_us_rms vs run
χ² / ndf 600.9 / 50
p0 162.2 ± 0.1599
175
170
165
160
155
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
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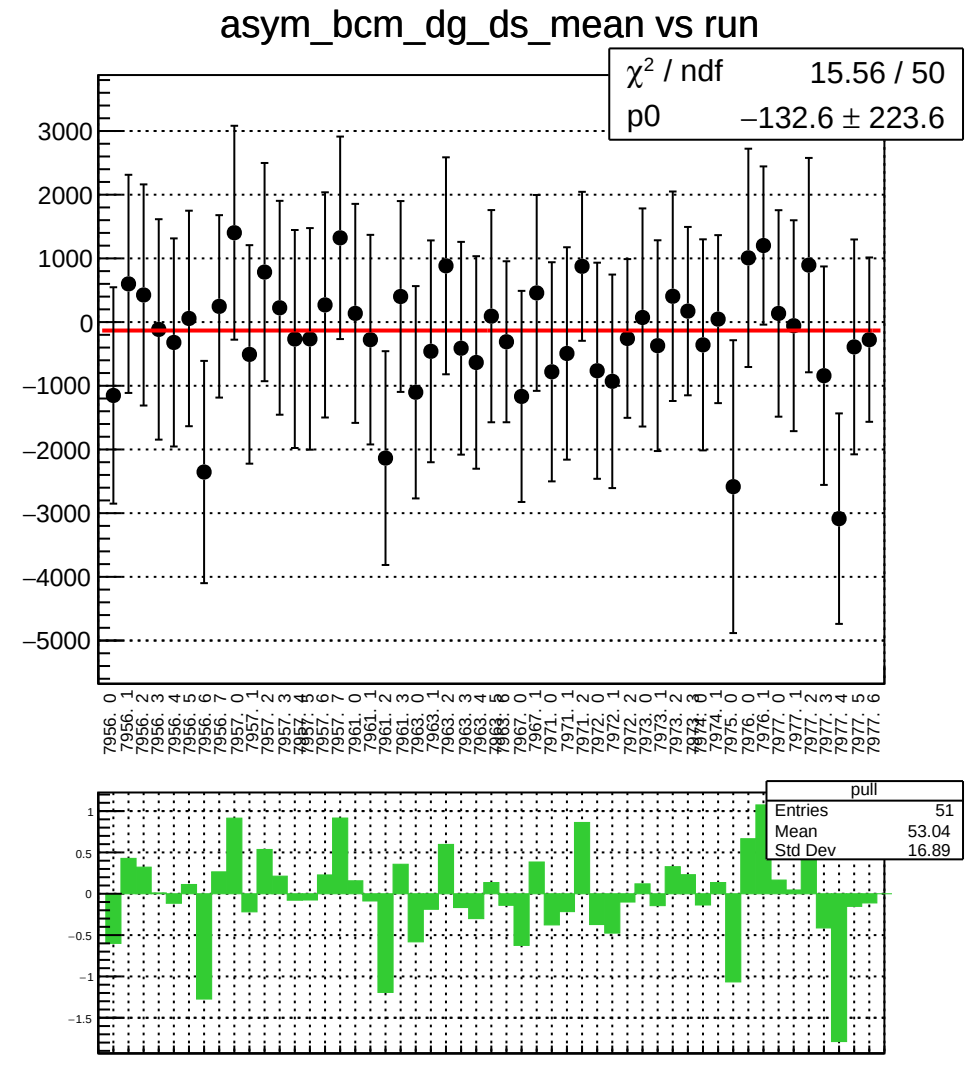
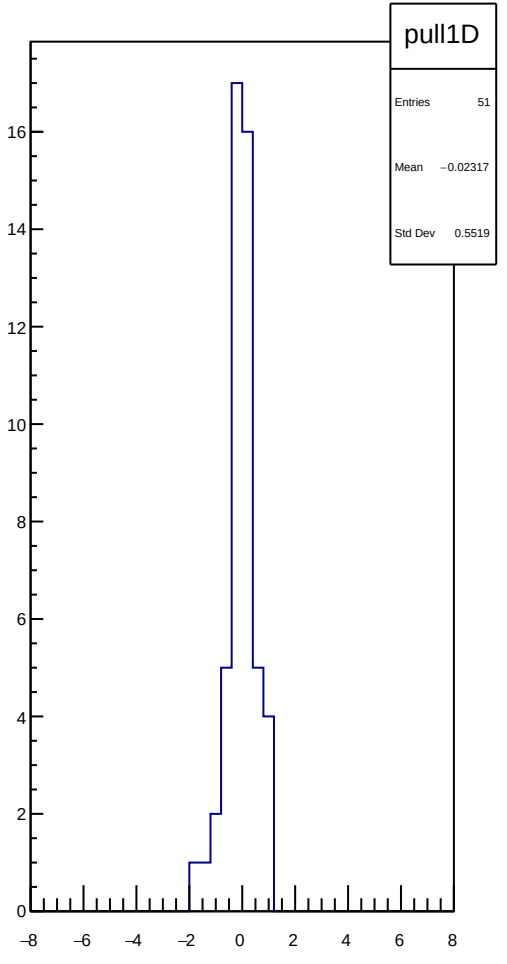
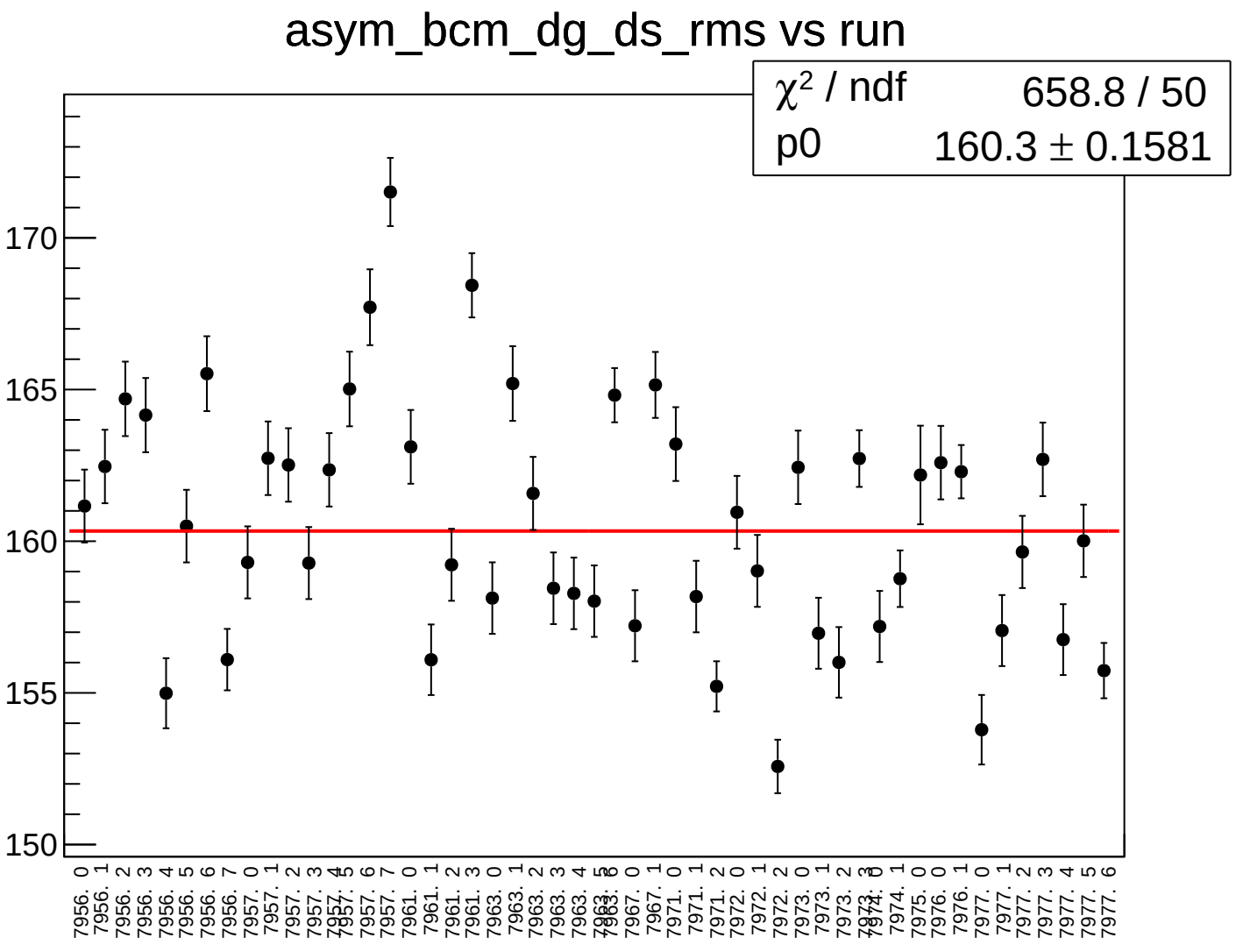
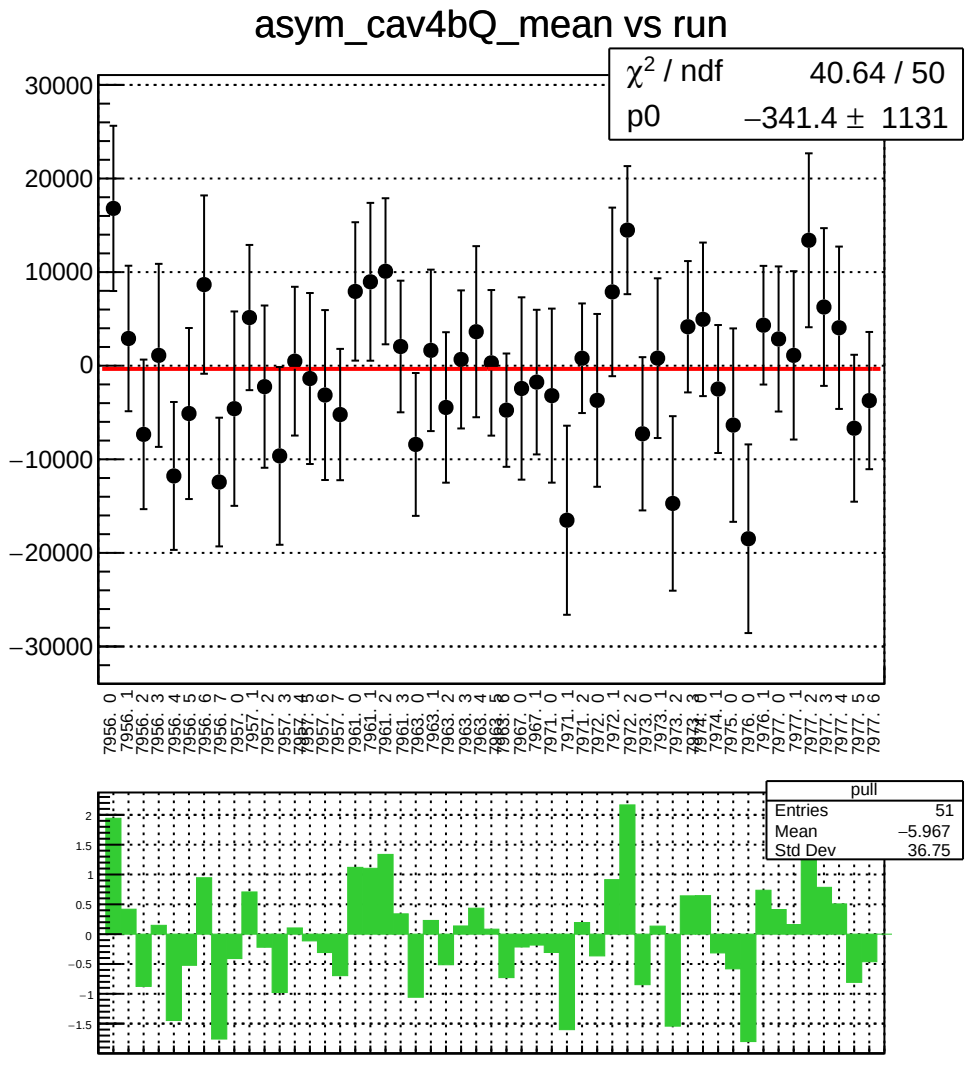
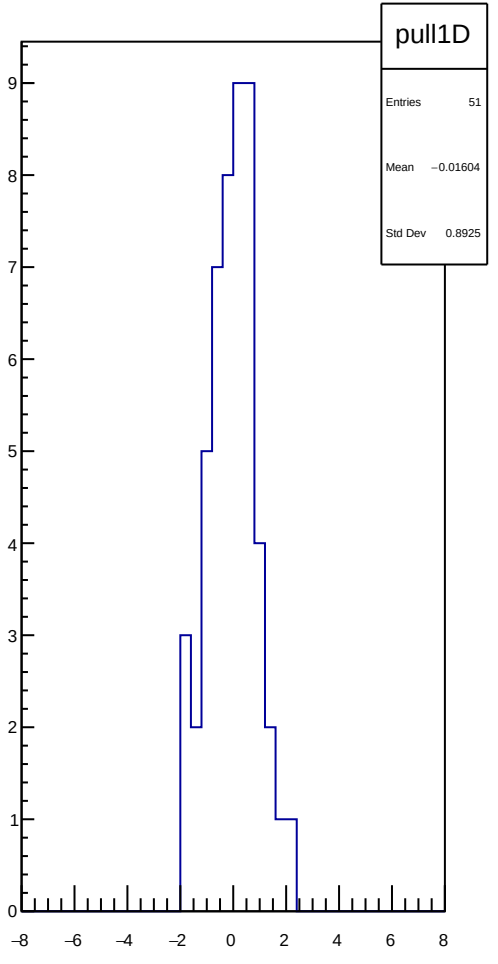
7977. 4
7977. 5
7977. 6

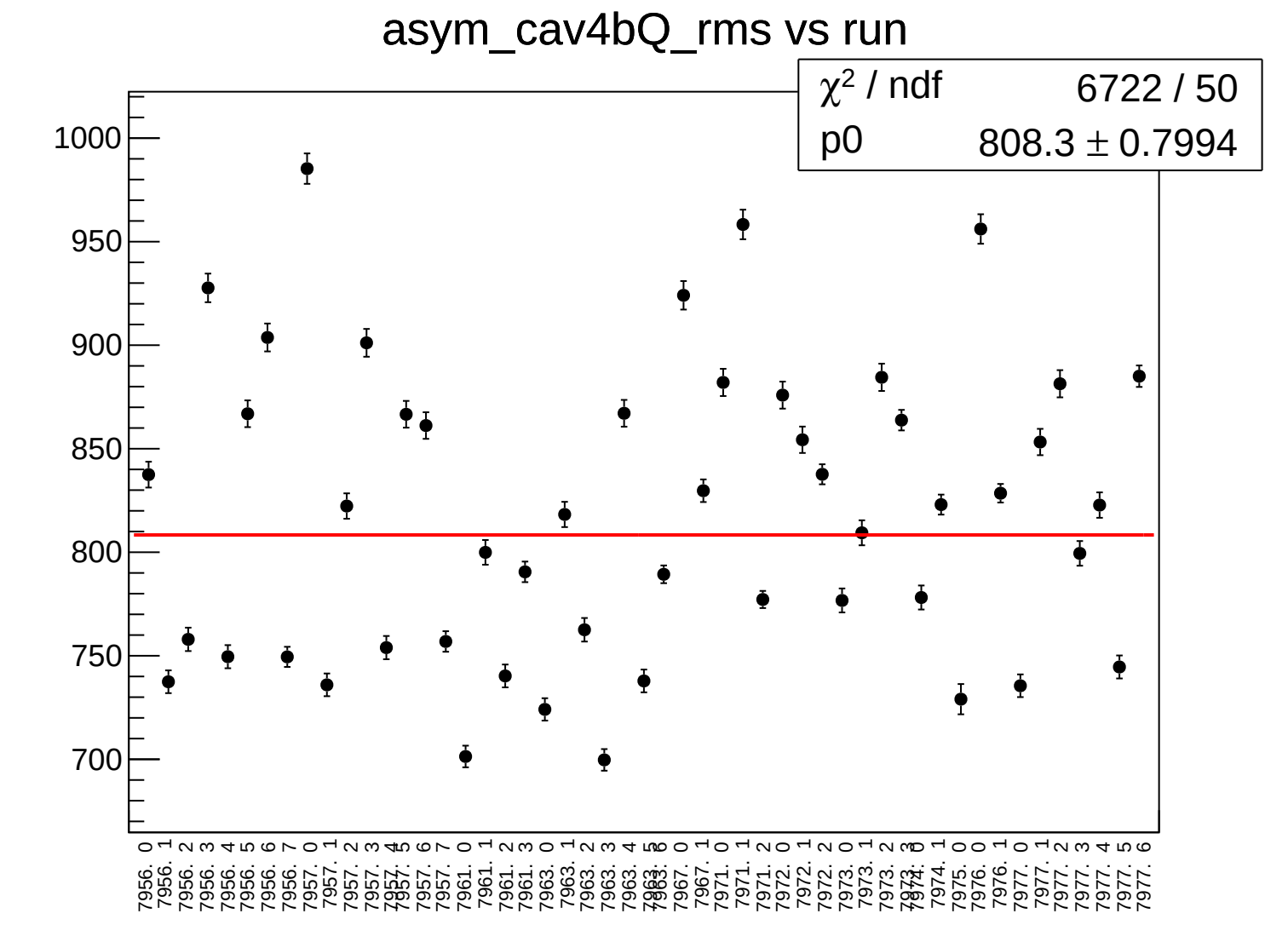

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.56 / 50
p0 −132.6 ± 223.6
pull
Entries 51
Mean 53.04
Std Dev 16.89

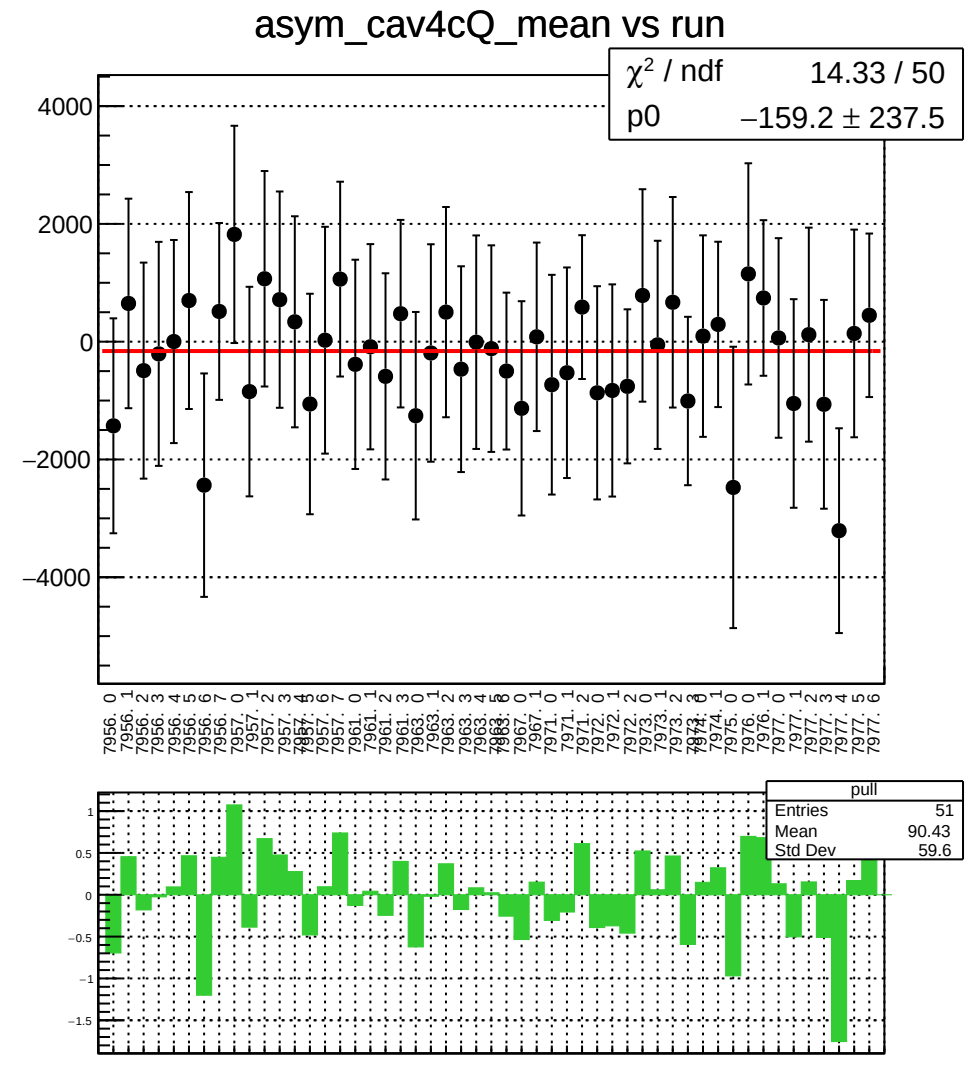

pull1D
Entries 51
Mean −0.02317
Std Dev 0.5519

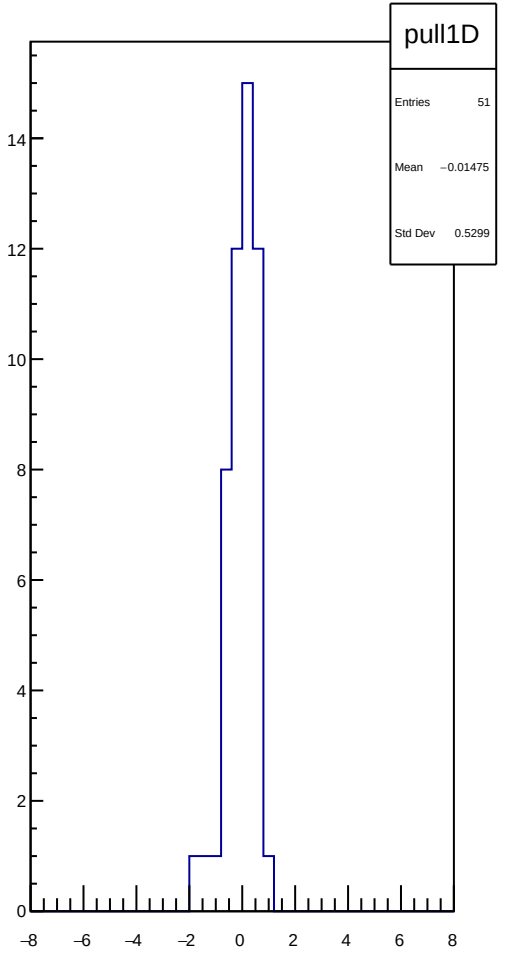

asym_bcm_dg_ds_rms vs run
χ² / ndf 658.8 / 50
p0 160.3 ± 0.1581
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

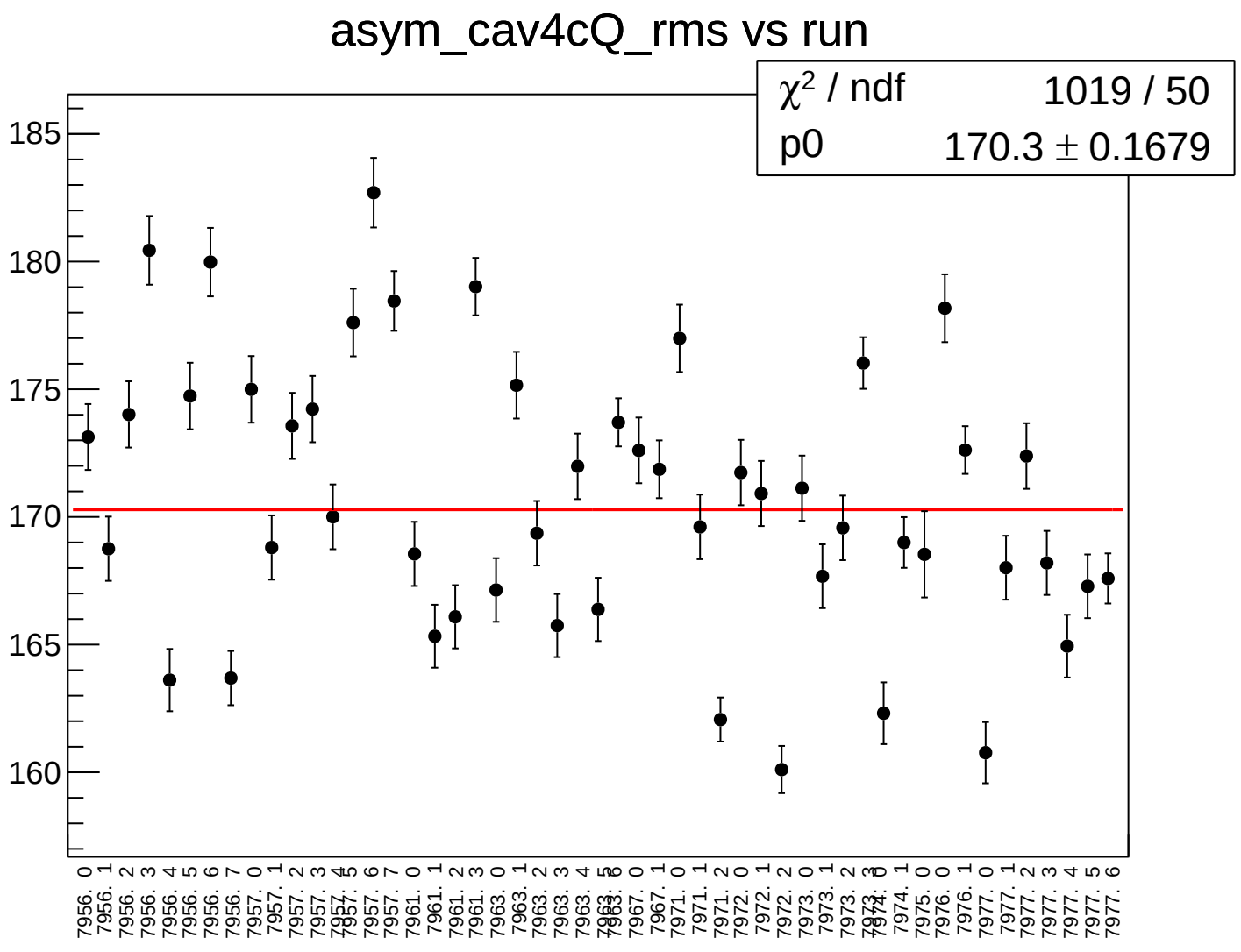

asym_cav4bQ_mean vs run
χ² / ndf 40.64 / 50
p0 −341.4 ± 1131
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −5.967
Std Dev 36.75
2
1.5
1
0.5
0
−0.5
−1
−1.5

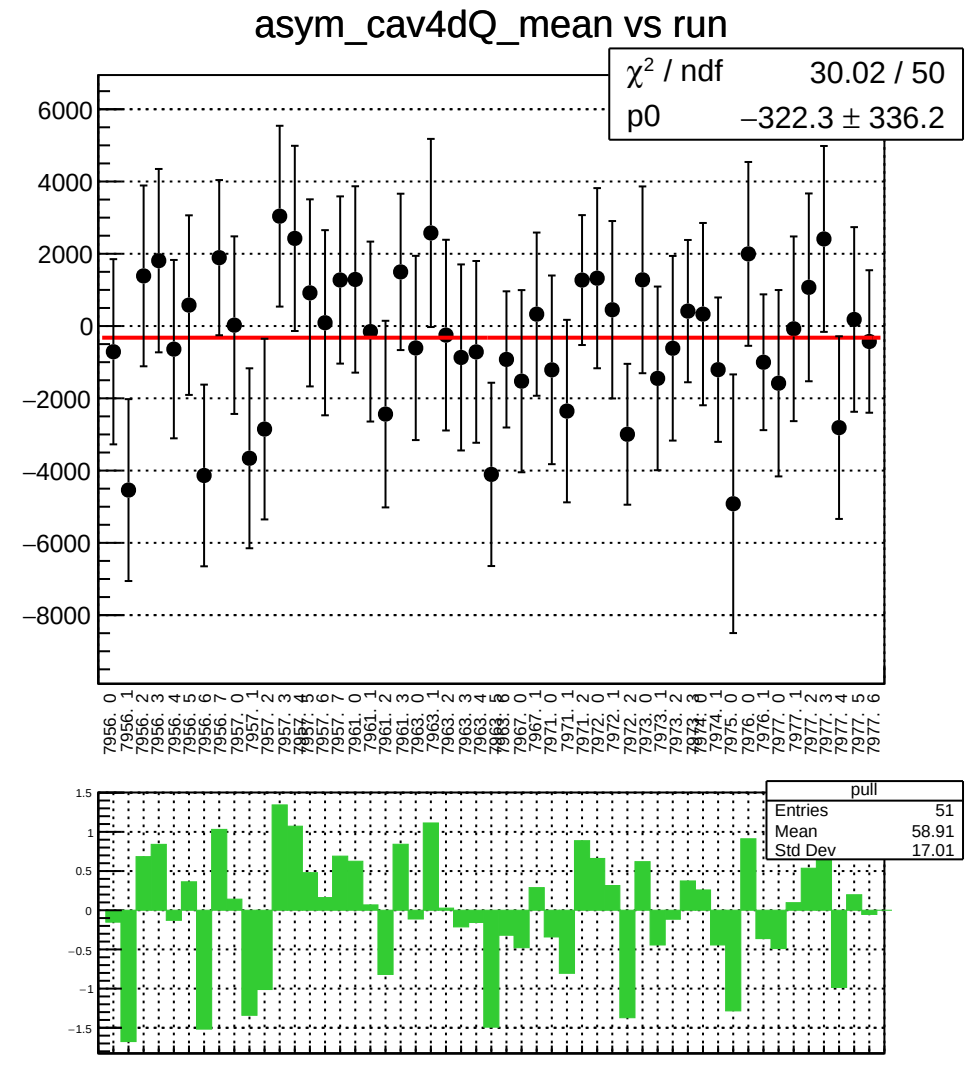

pull1D
Entries 51
Mean −0.01604
Std Dev 0.8925
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

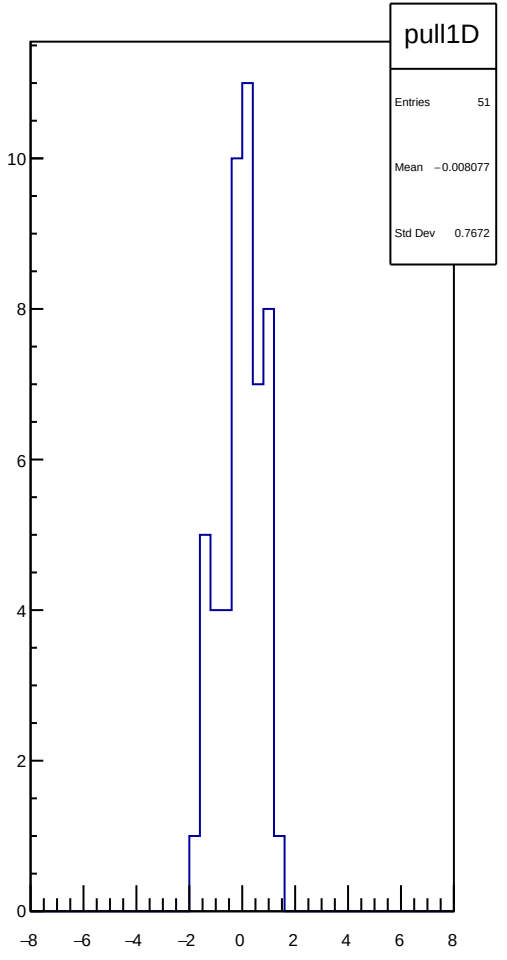

asym_cav4bQ_rms vs run
χ² / ndf 6722 / 50
p0 808.3 ± 0.7994
1000
950
900
850
800
750
700
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

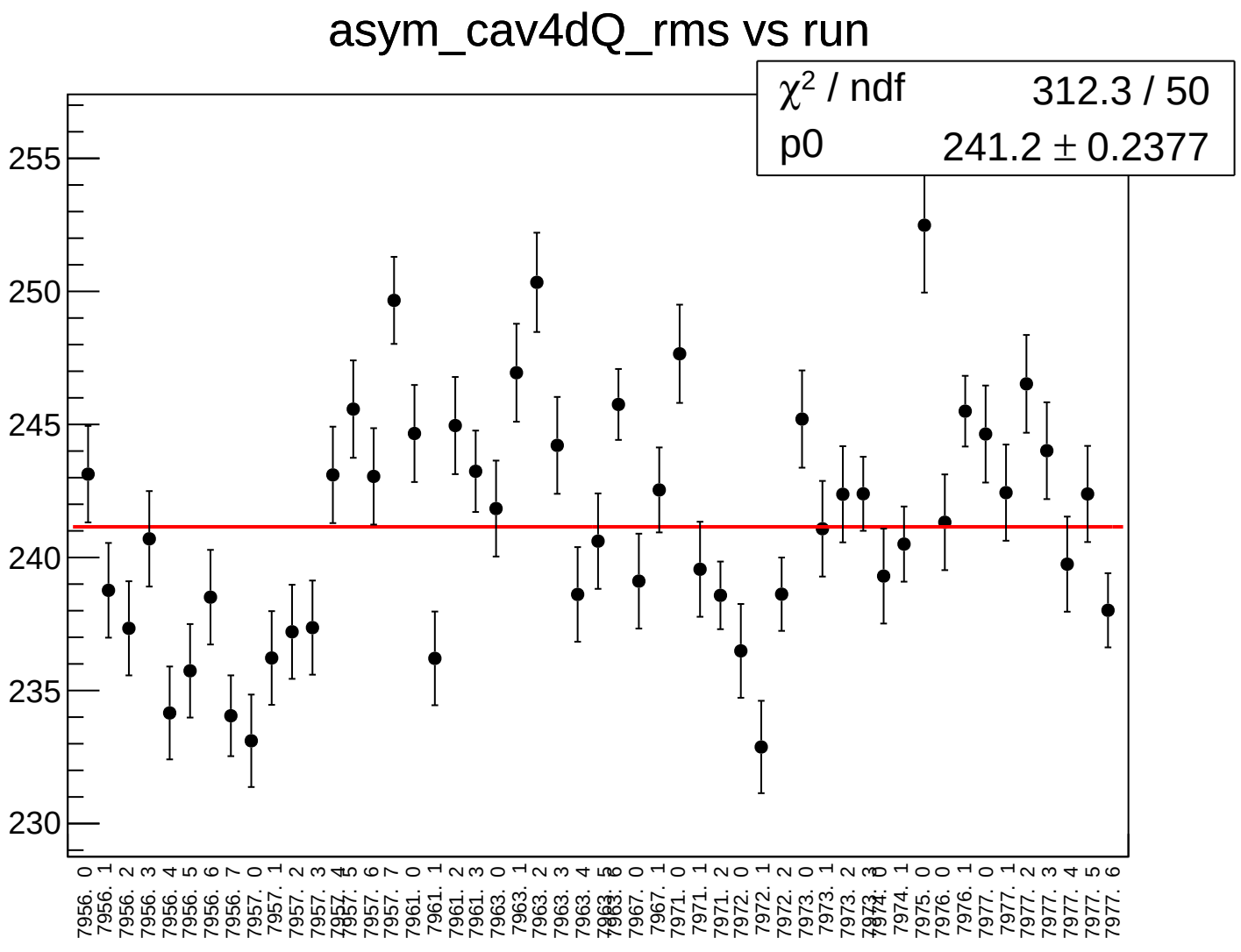

asym_cav4cQ_mean vs run
χ² / ndf 14.33 / 50
p0 −159.2 ± 237.5
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 90.43
Std Dev 59.6
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.01475
Std Dev 0.5299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4cQ_rms vs run
χ² / ndf 1019 / 50
p0 170.3 ± 0.1679
185
180
175
170
165
160
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_cav4dQ_mean vs run
χ² / ndf 30.02 / 50
p0 −322.3 ± 336.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean 58.91
Std Dev 17.01
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.008077
Std Dev 0.7672
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_cav4dQ_rms vs run
χ² / ndf 312.3 / 50
p0 241.2 ± 0.2377
255
250
245
240
235
230
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
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7977. 3
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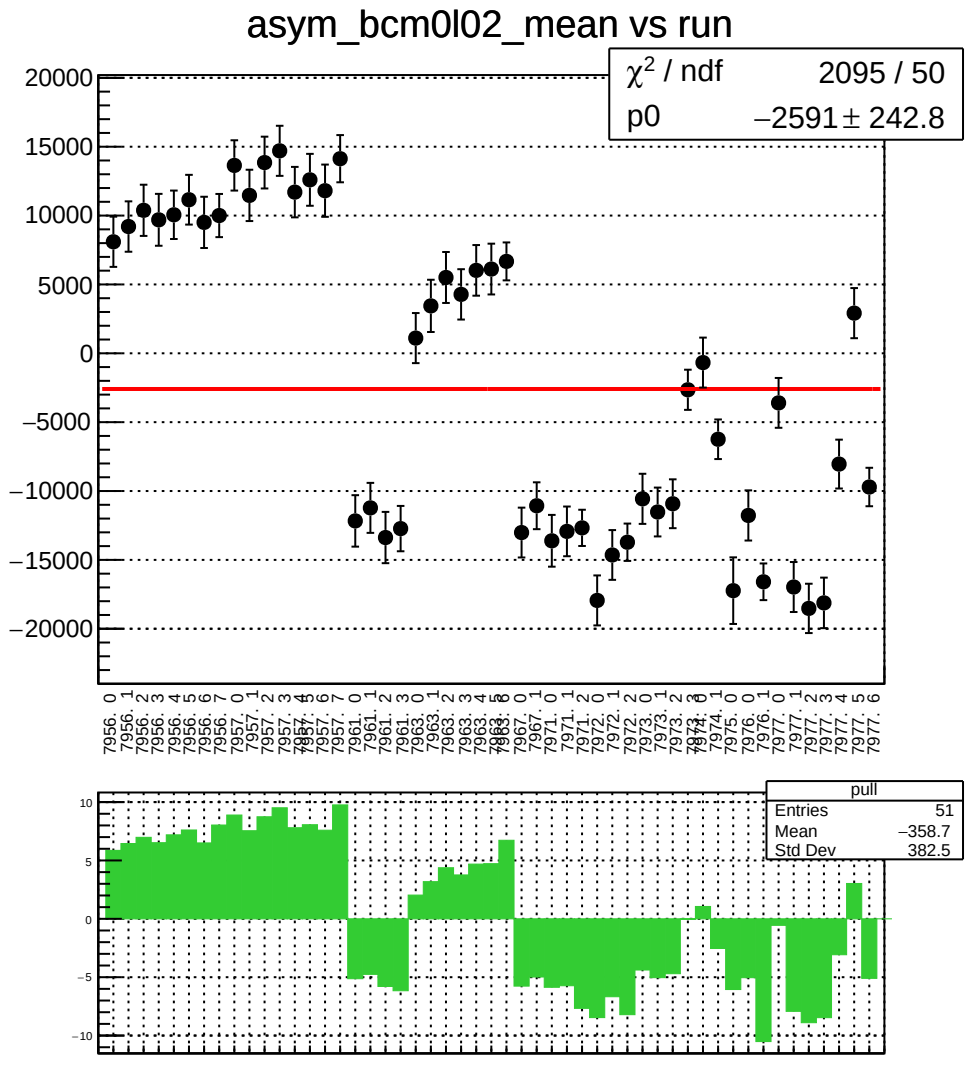
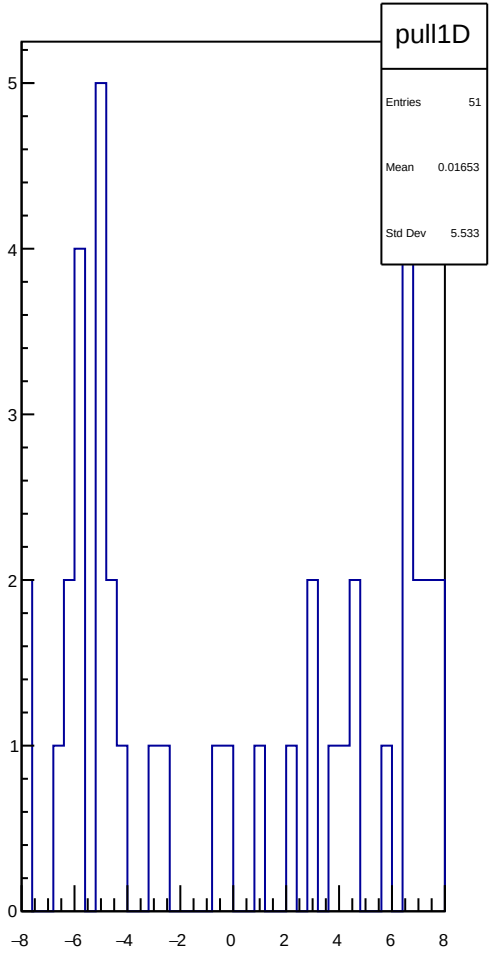
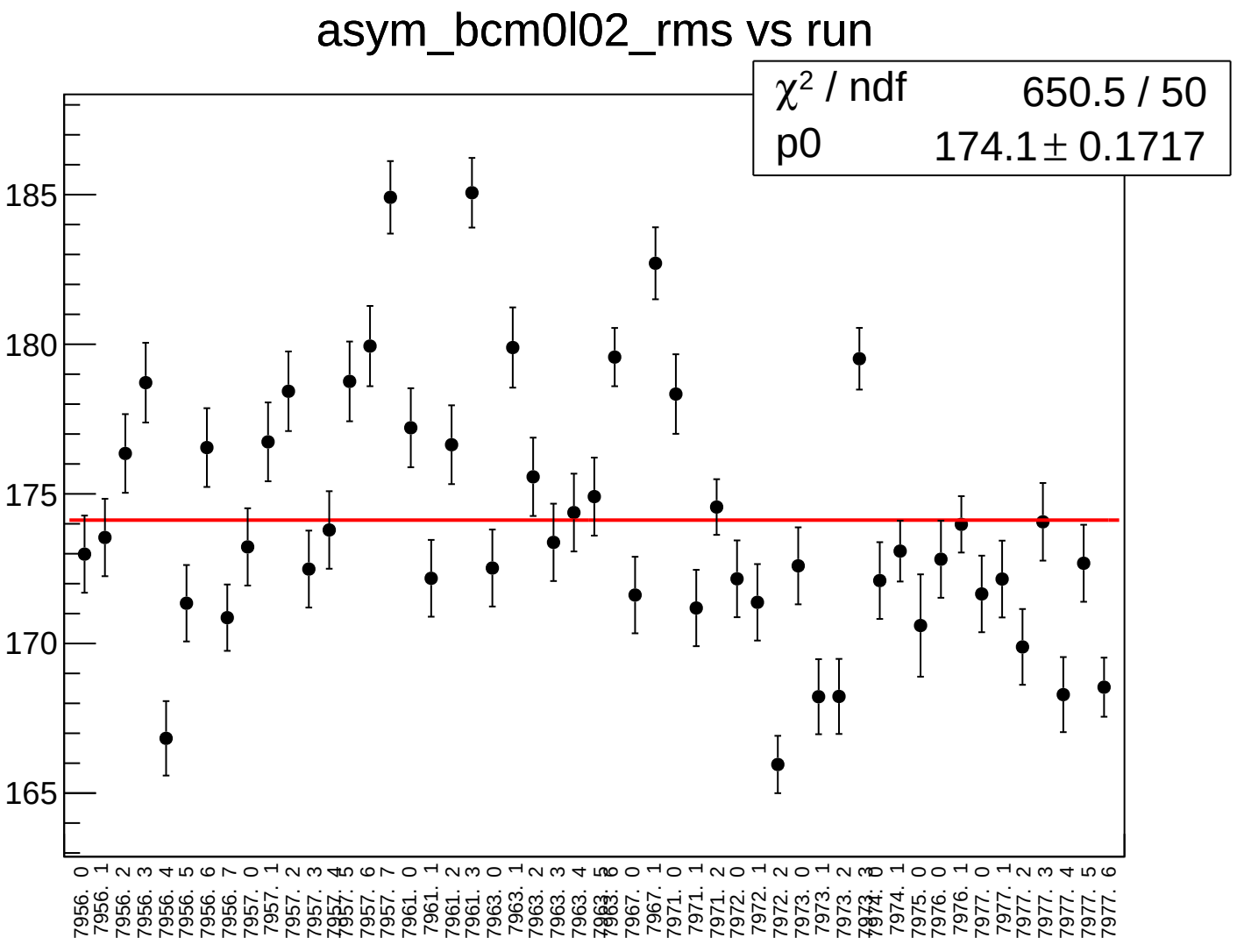
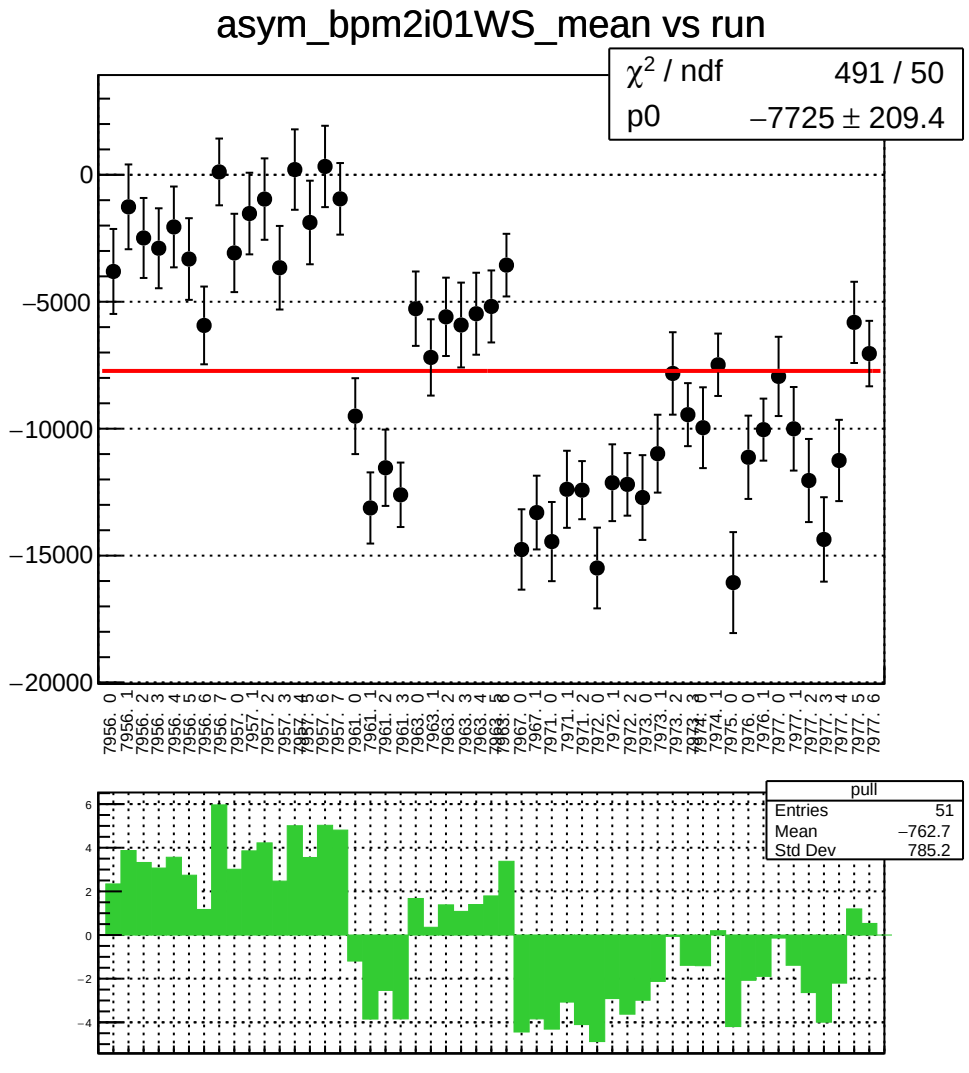
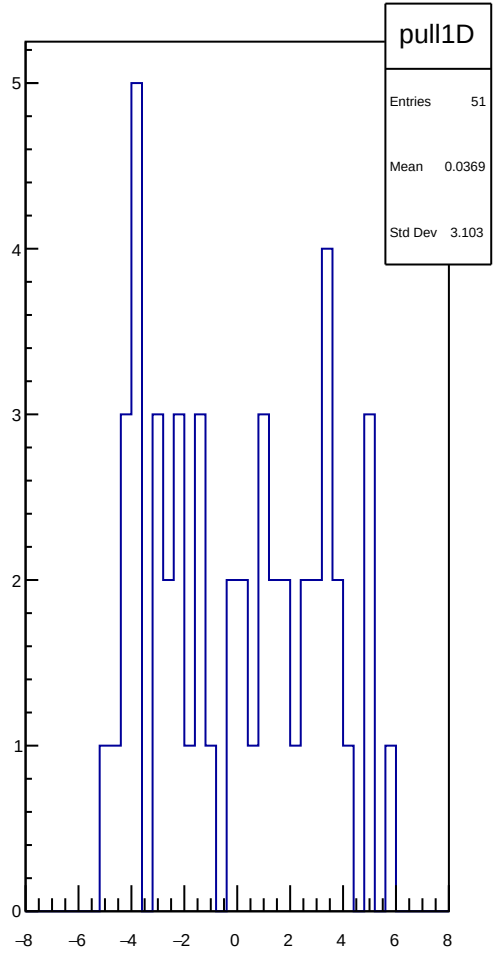
7977. 5
7977. 6

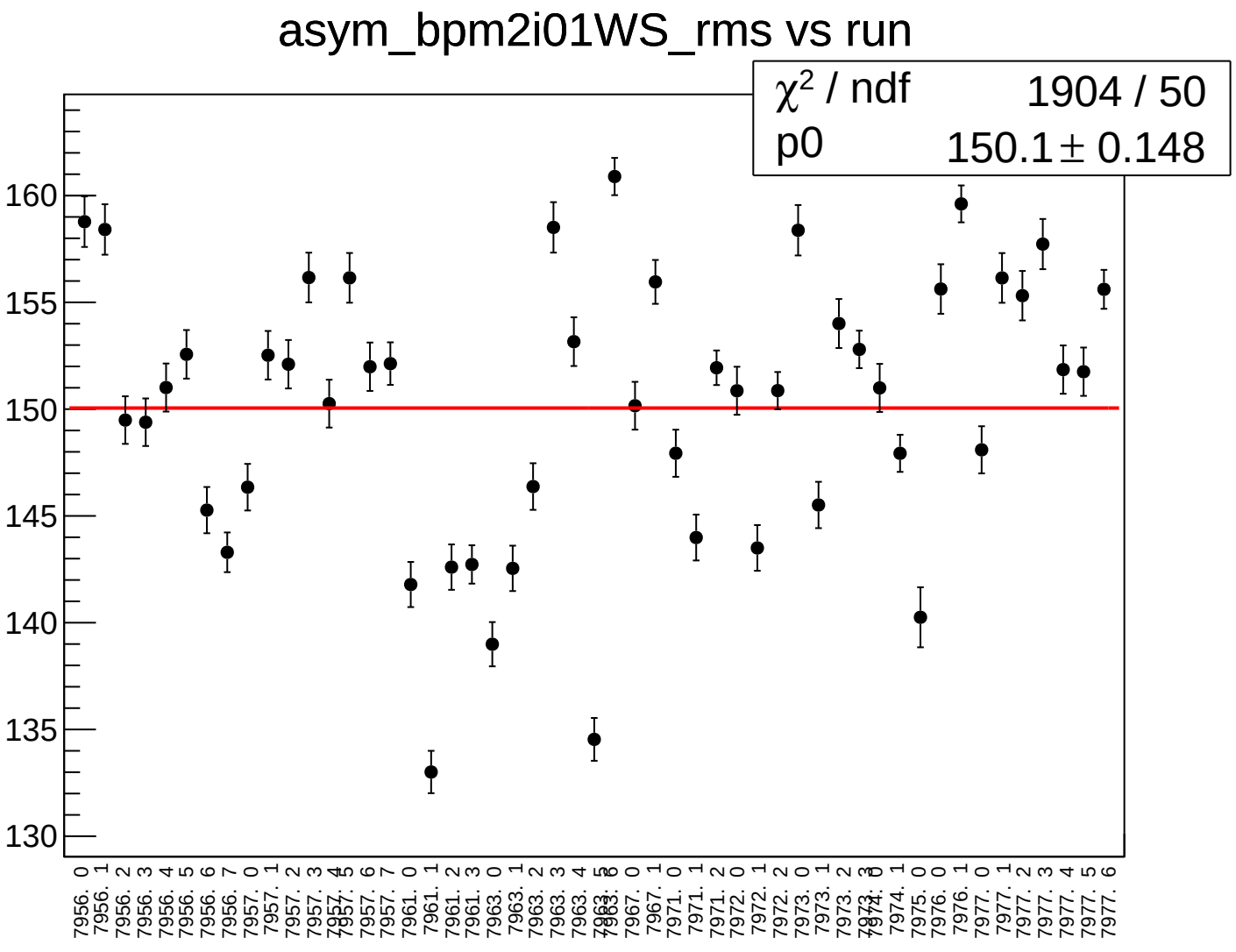

asym_bcm0l02_mean vs run
χ² / ndf 2095 / 50
p0 −2591 ± 242.8
pull
Entries 51
Mean −358.7
Std Dev 382.5

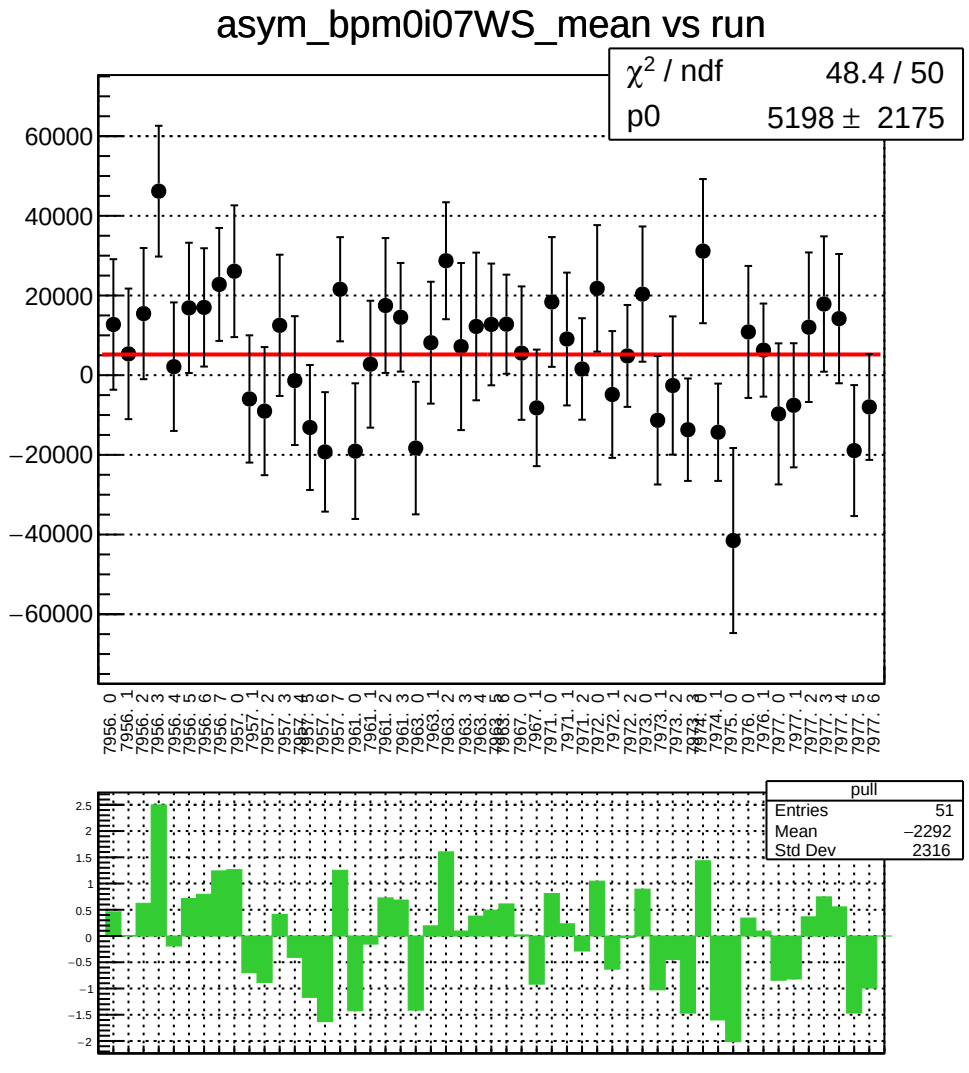

pull1D
Entries 51
Mean 0.01653
Std Dev 5.533

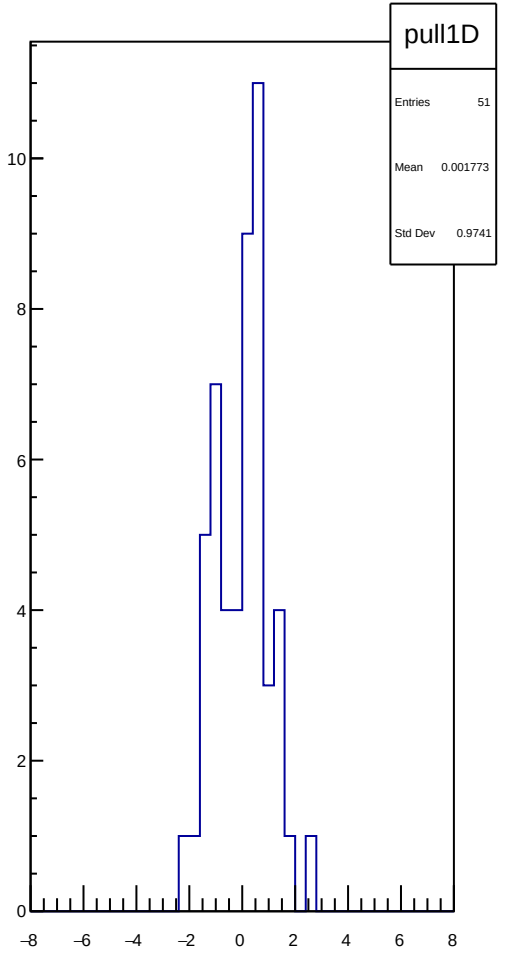

asym_bcm0l02_rms vs run
χ² / ndf 650.5 / 50
p0 174.1 ± 0.1717
185
180
175
170
165
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

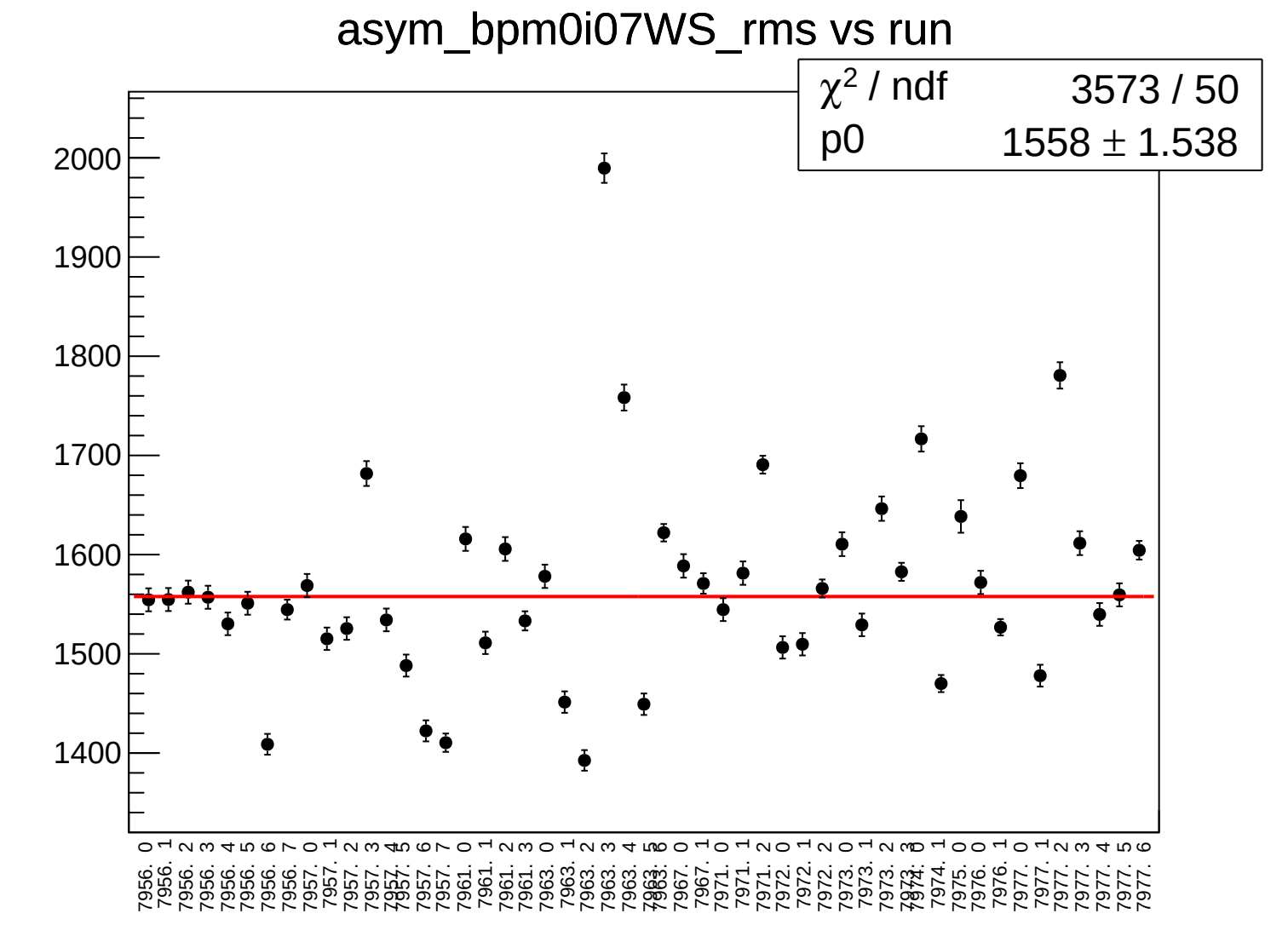

asym_bpm2i01WS_mean vs run
χ² / ndf 491 / 50
p0 −7725 ± 209.4
0
−5000
−10000
−15000
−20000
pull
Entries 51
Mean −762.7
Std Dev 785.2


pull1D
Entries 51
Mean 0.0369
Std Dev 3.103


asym_bpm2i01WS_rms vs run
χ^2 / ndf 1904 / 50
p0 150.1 ± 0.148
160
155
150
145
140
135
130
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bpm0i07WS_mean vs run
χ² / ndf 48.4 / 50
p0 5198 ± 2175
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −2292
Std Dev 2316
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.001773
Std Dev 0.9741
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i07WS_rms vs run
χ² / ndf 3573 / 50
p0 1558 ± 1.538
2000
1900
1800
1700
1600
1500
1400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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7977. 2
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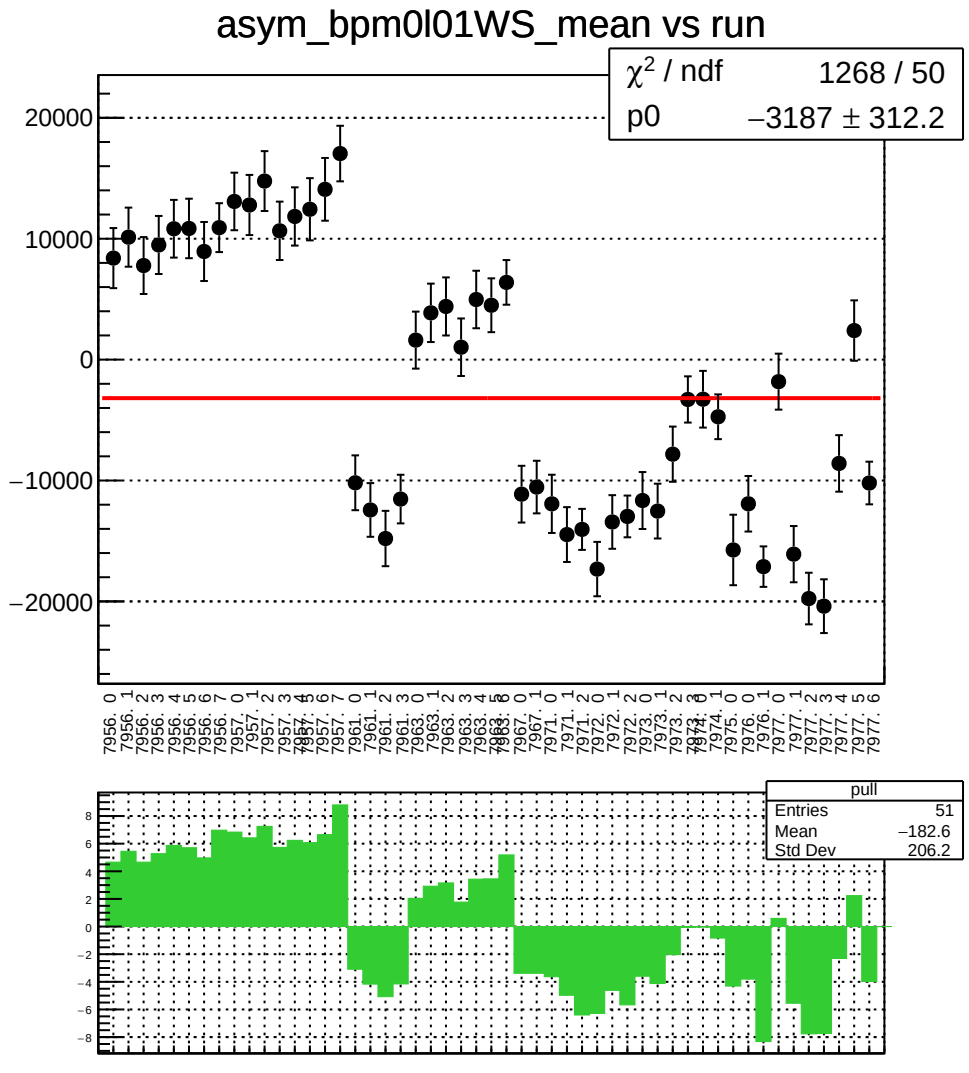
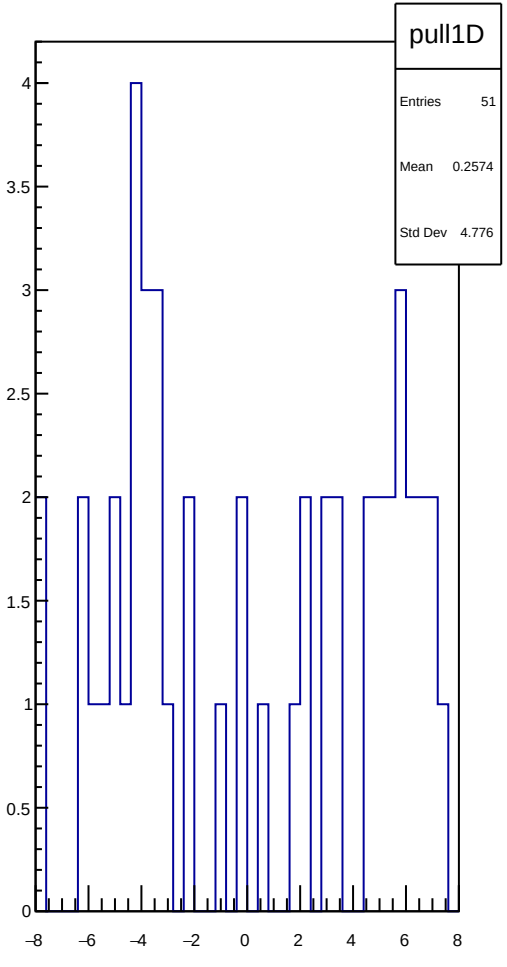
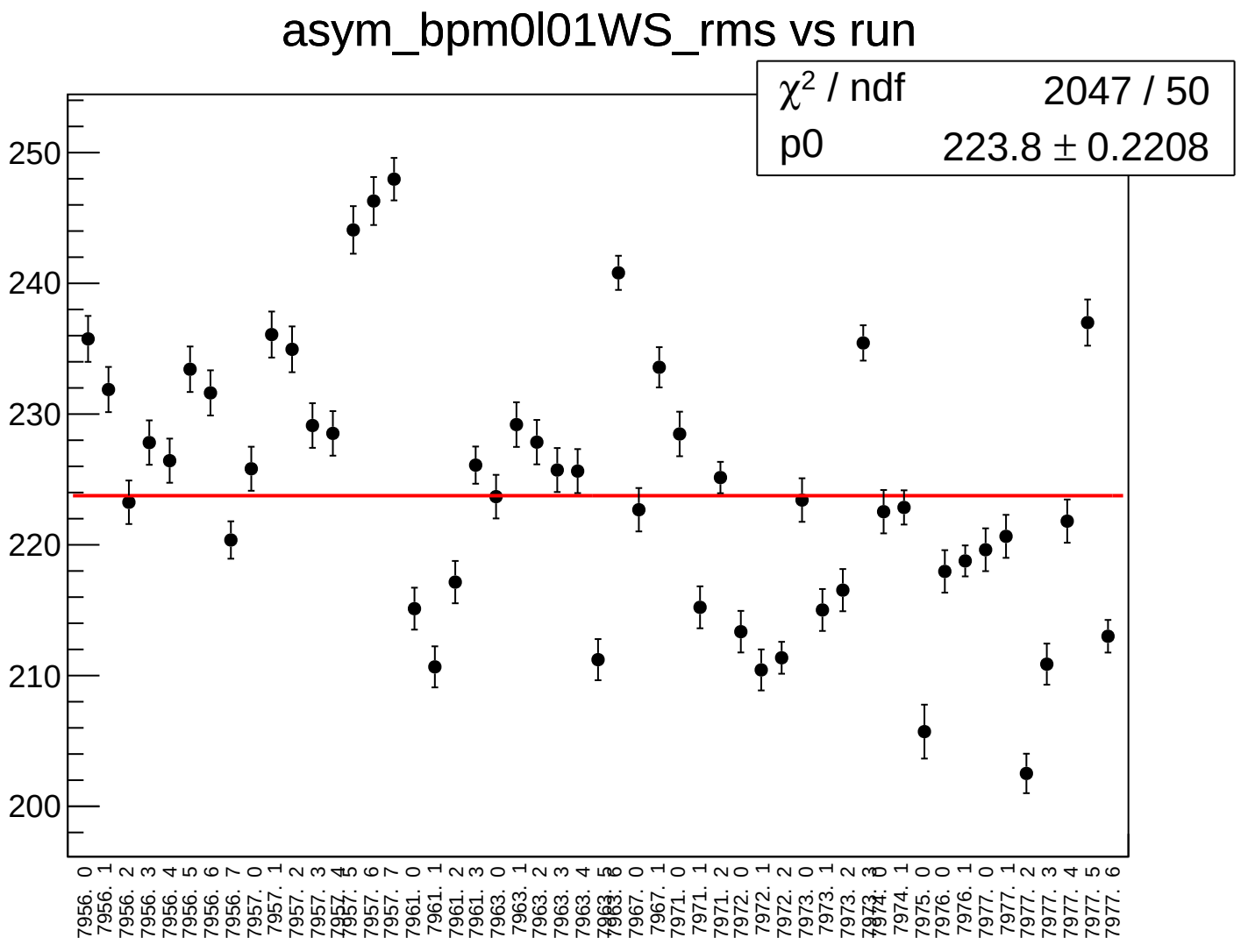
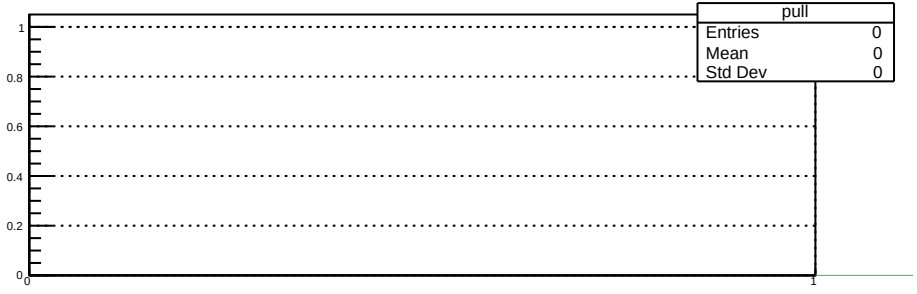
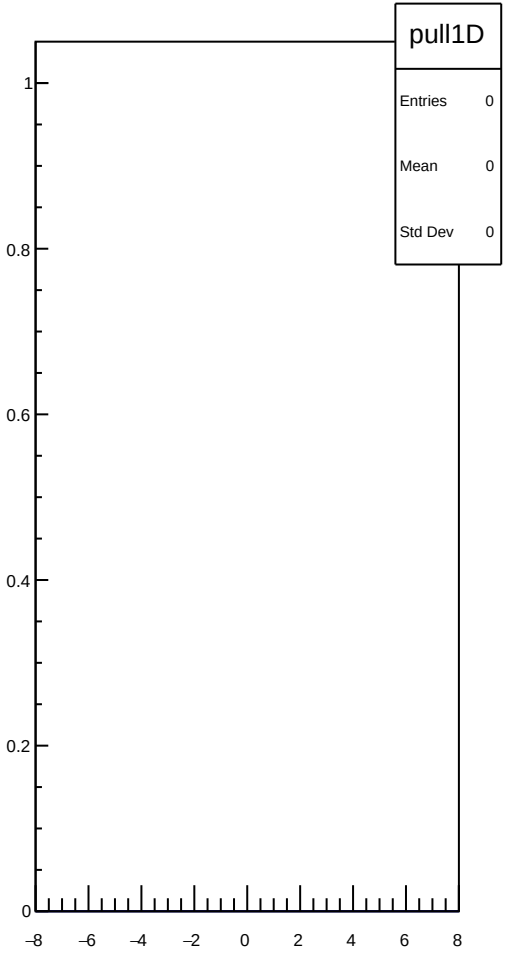
7977. 5
7977. 6

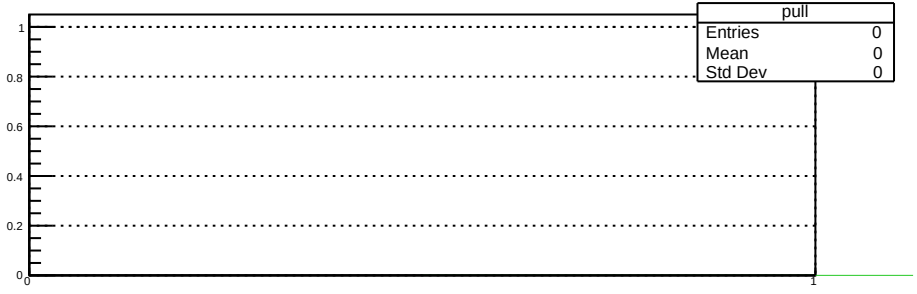

asym_bpm0l01WS_mean vs run
χ^2 / ndf 1268 / 50
p0 −3187 ± 312.2
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −182.6
Std Dev 206.2
8
6
4
2
0
−2
−4
−6
−8

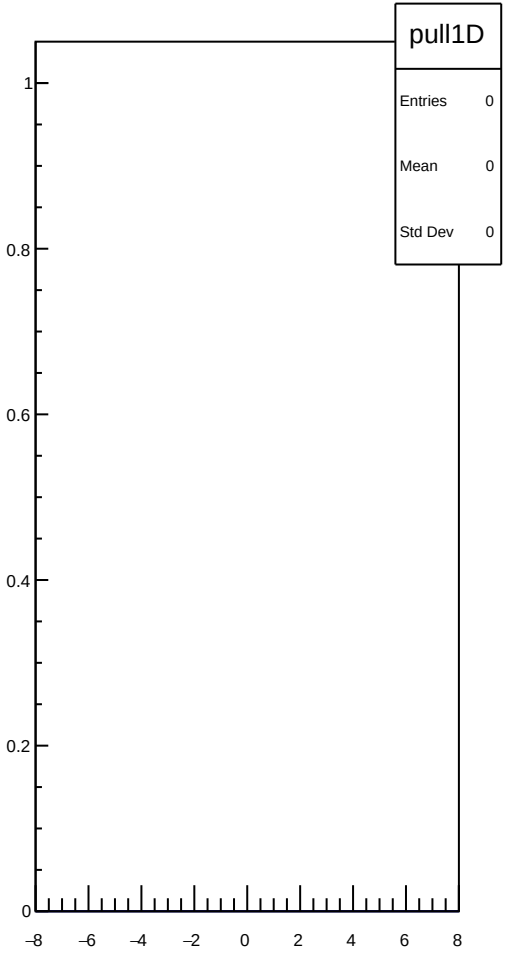

pull1D
Entries 51
Mean 0.2574
Std Dev 4.776
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

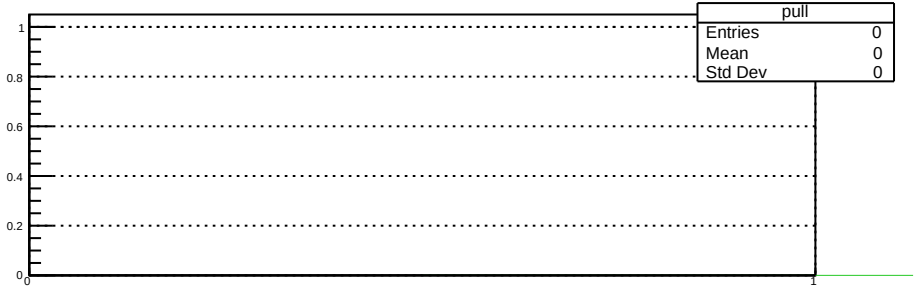

asym_bpm0l01WS_rms vs run
χ² / ndf 2047 / 50
p0 223.8 ± 0.2208
250
240
230
220
210
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

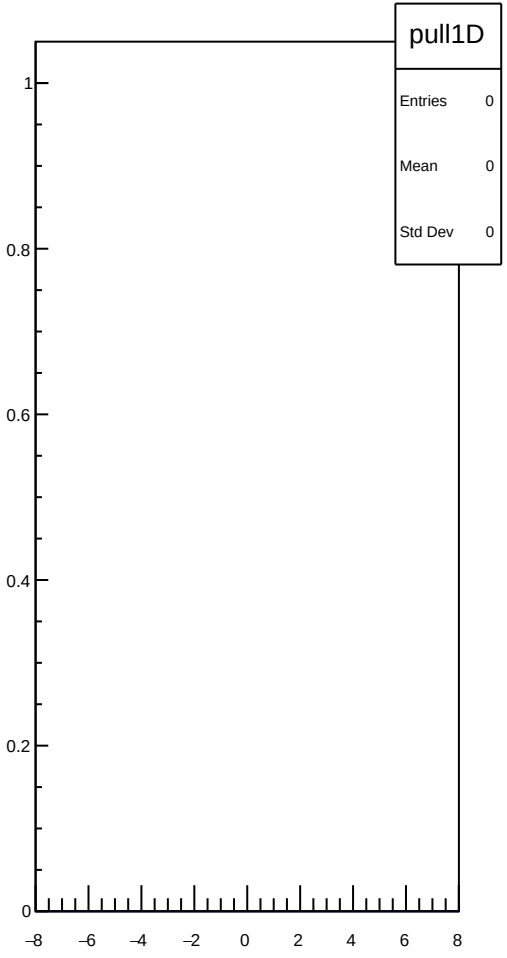

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

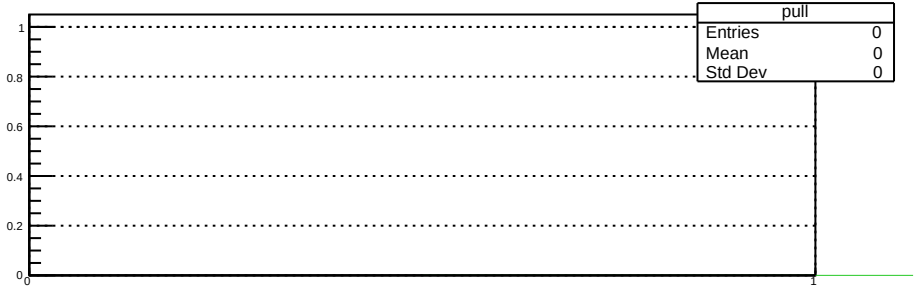

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

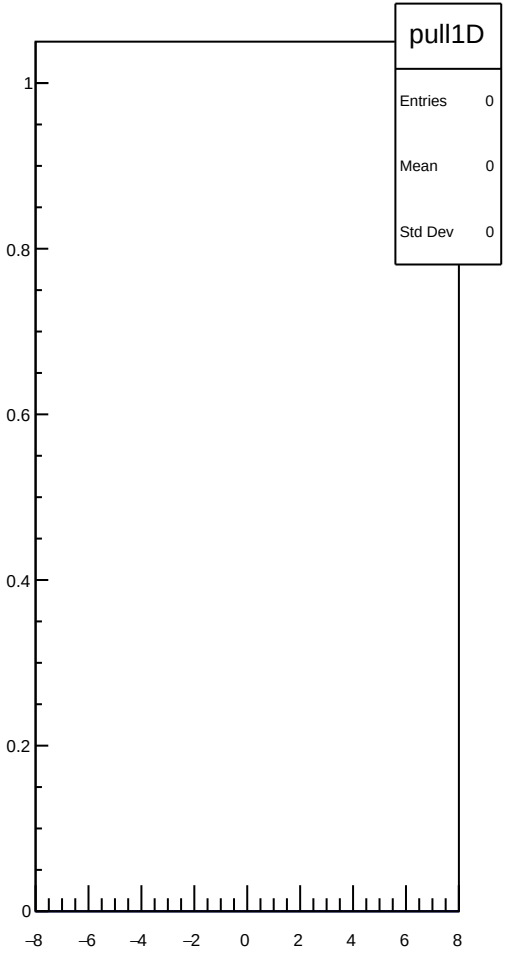

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

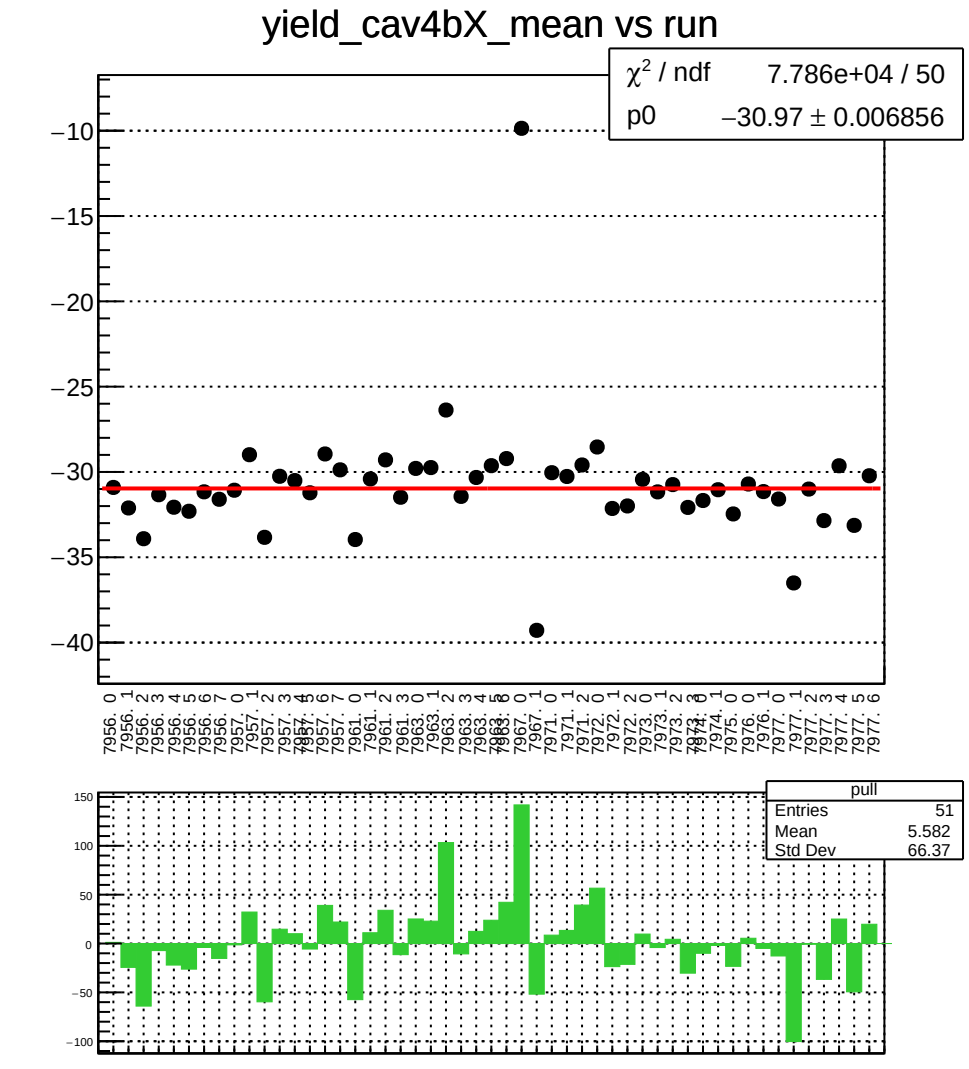

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

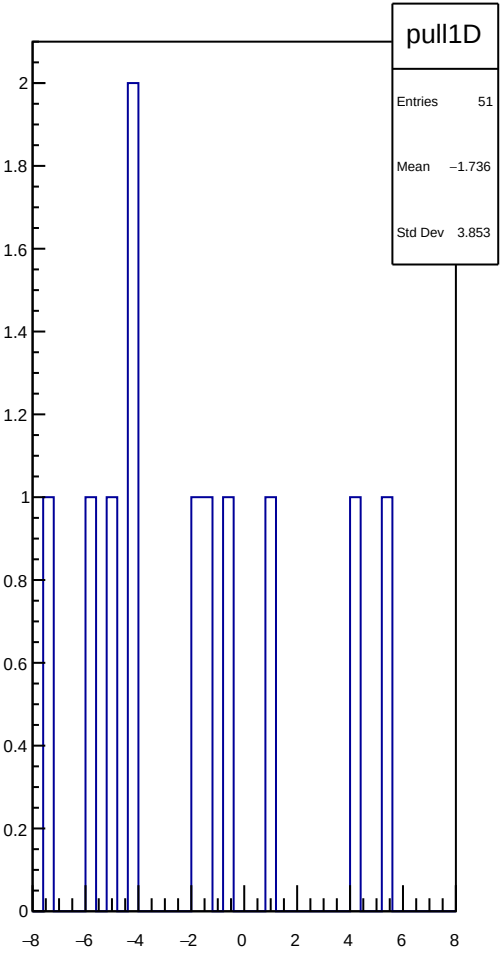

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

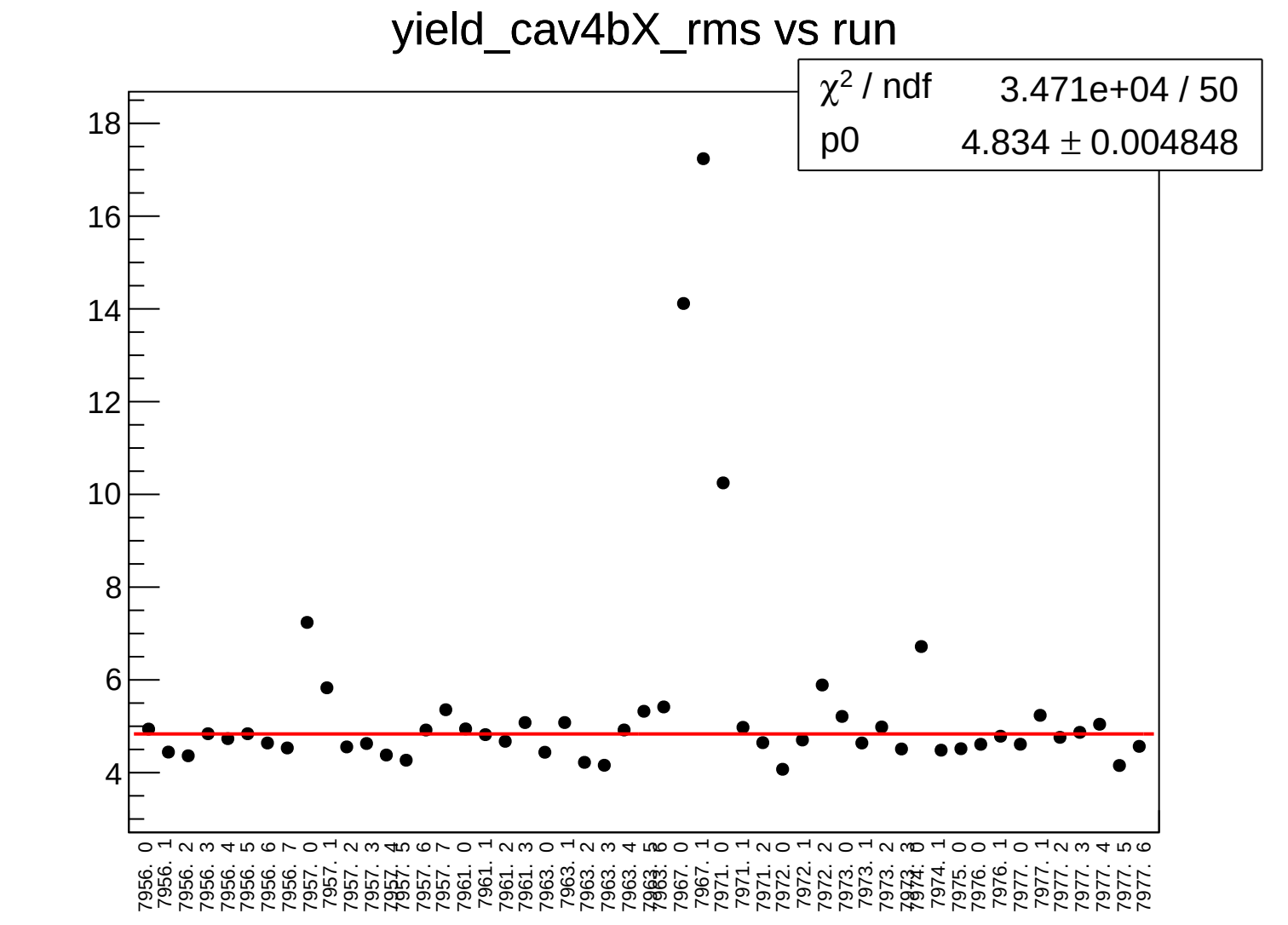

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

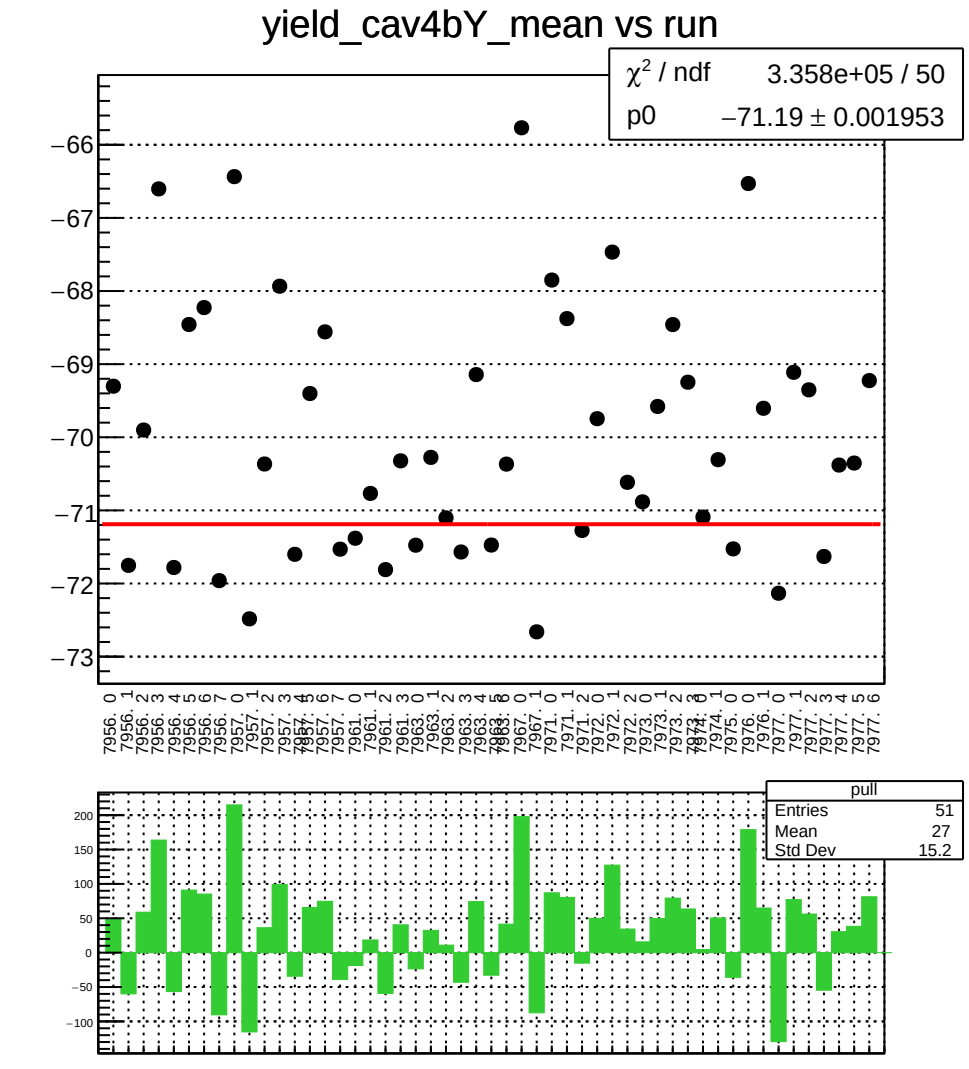

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

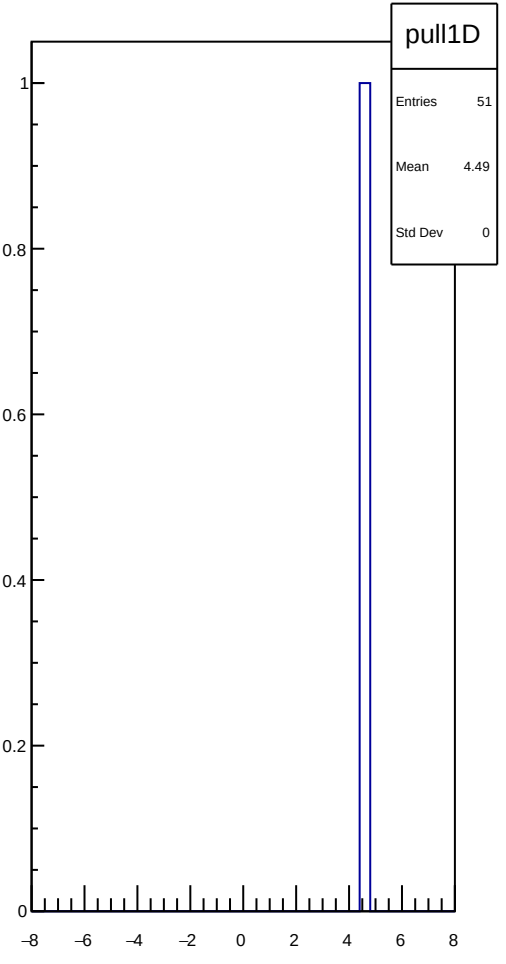

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

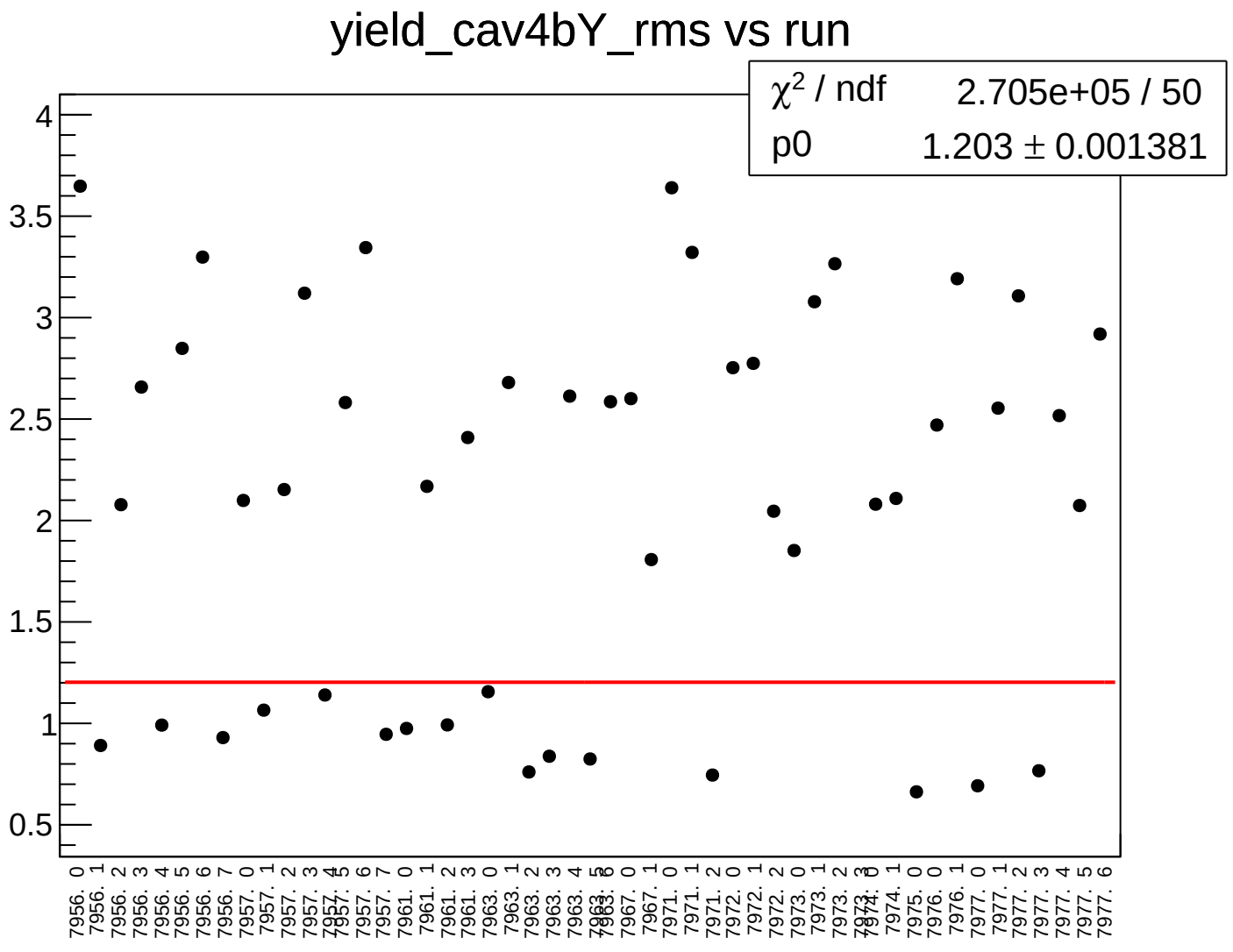

yield_cav4bX_mean vs run
χ² / ndf 7.786e+04 / 50
p0 −30.97 ± 0.006856
pull
Entries 51
Mean 5.582
Std Dev 66.37

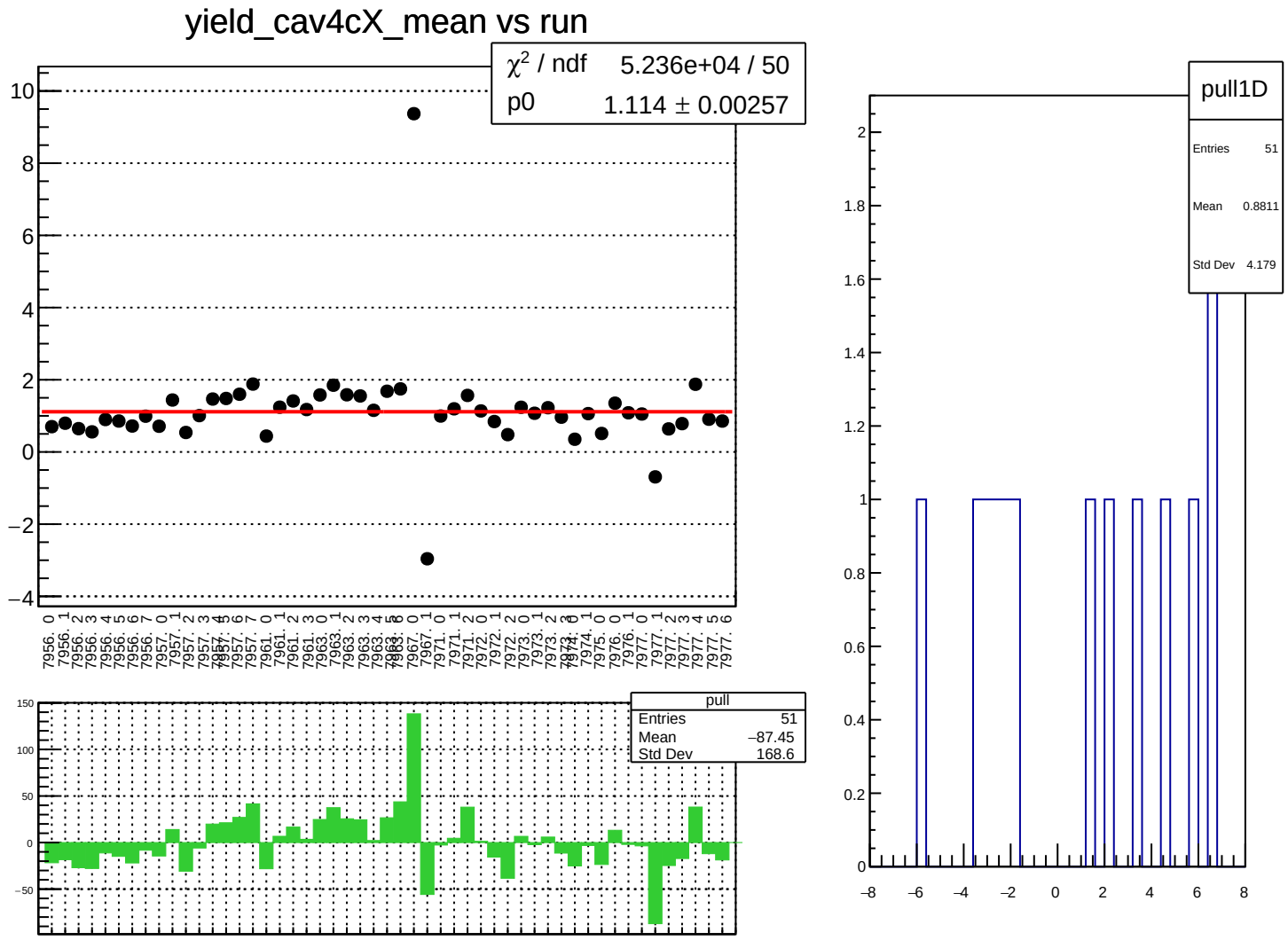

pull1D
Entries 51
Mean −1.736
Std Dev 3.853

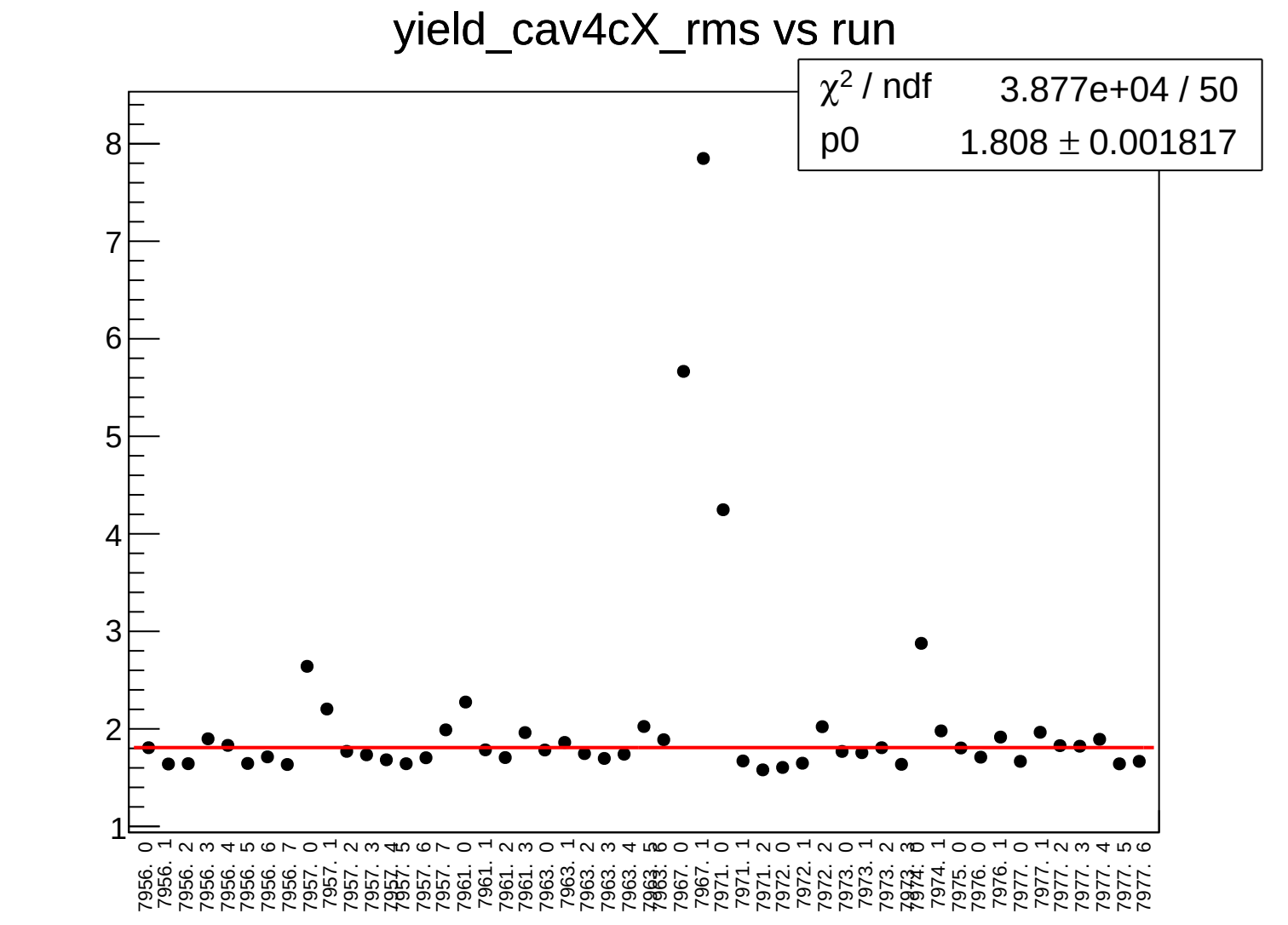

yield_cav4bX_rms vs run
χ^2 / ndf 3.471e+04 / 50
p0 4.834 ± 0.004848
18
16
14
12
10
8
6
4
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_cav4bY_mean vs run
χ² / ndf 3.358e+05 / 50
p0 −71.19 ± 0.001953
pull
Entries 51
Mean 27
Std Dev 15.2


pull1D
Entries 51
Mean 4.49
Std Dev 0


yield_cav4bY_rms vs run
χ² / ndf 2.705e+05 / 50
p0 1.203 ± 0.001381
4
3.5
3
2.5
2
1.5
1
0.5
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_cav4cX_mean vs run
χ² / ndf 5.236e+04 / 50
p0 1.114 ± 0.00257
pull
Entries 51
Mean −87.45
Std Dev 168.6
pull1D
Entries 51
Mean 0.8811
Std Dev 4.179


yield_cav4cX_rms vs run
χ^2 / ndf 3.877e+04 / 50
p0 1.808 ± 0.001817
8
7
6
5
4
3
2
1
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
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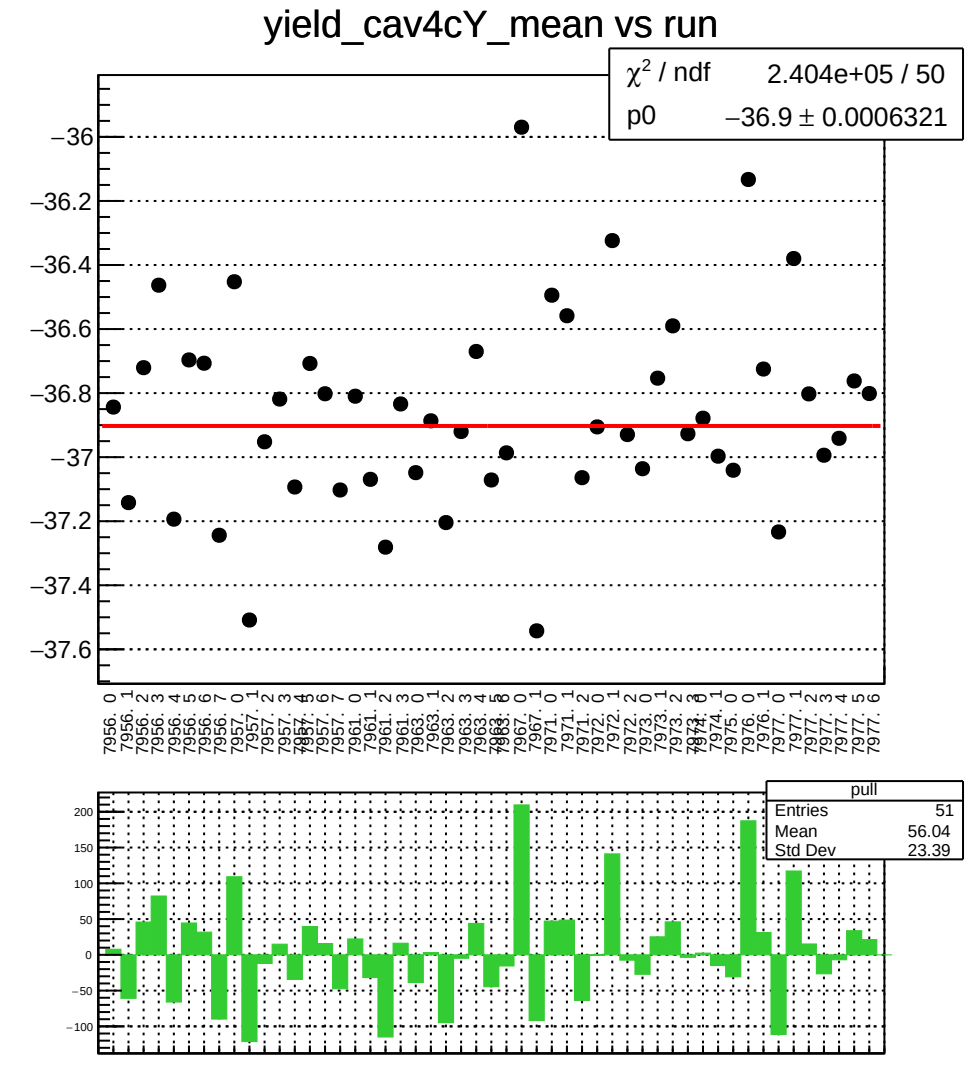
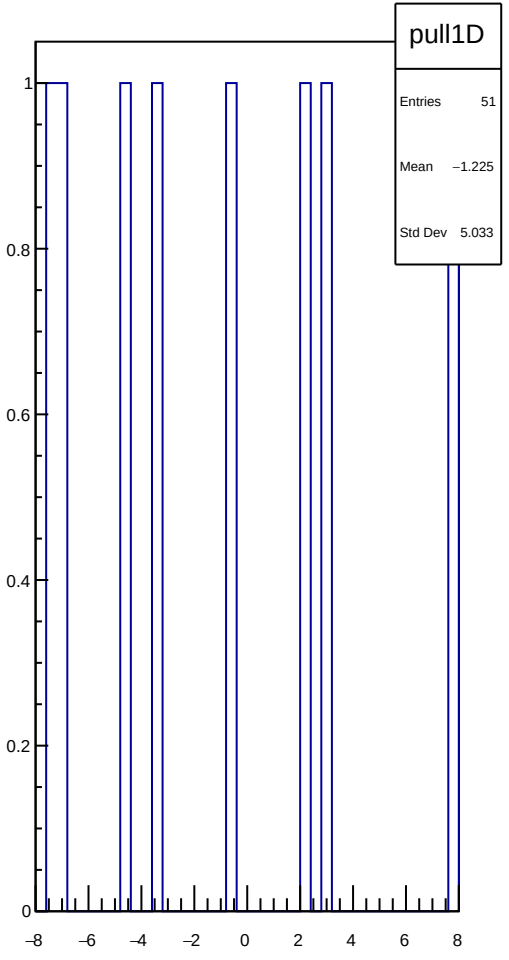
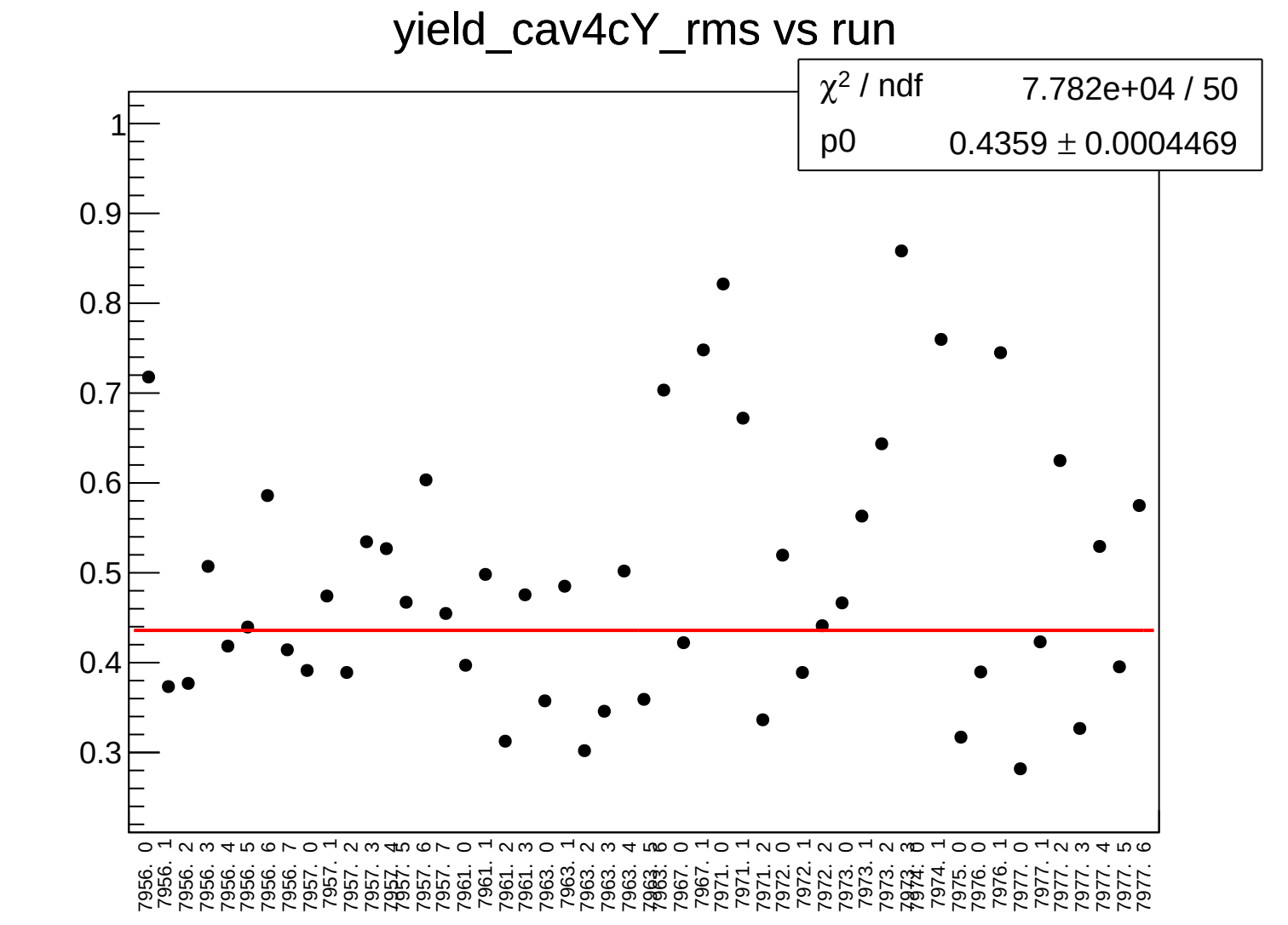
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_cav4cY_mean vs run
χ² / ndf 2.404e+05 / 50
p0 −36.9 ± 0.0006321
pull
Entries 51
Mean 56.04
Std Dev 23.39


pull1D
Entries 51
Mean −1.225
Std Dev 5.033


yield_cav4cY_rms vs run
χ² / ndf 7.782e+04 / 50
p0 0.4359 ± 0.0004469
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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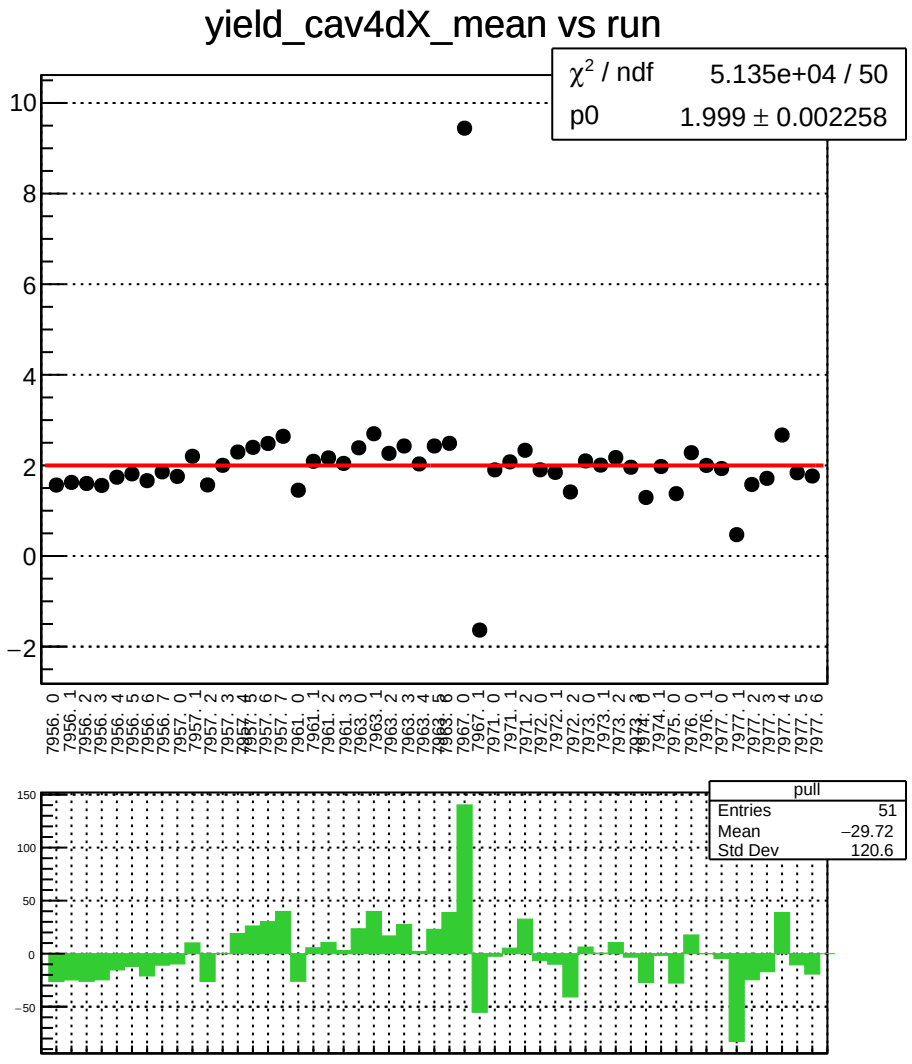
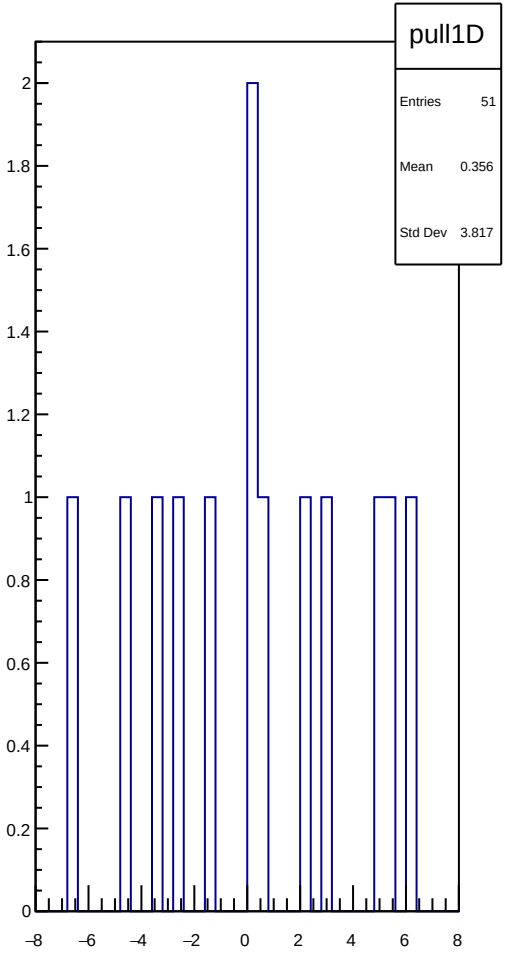
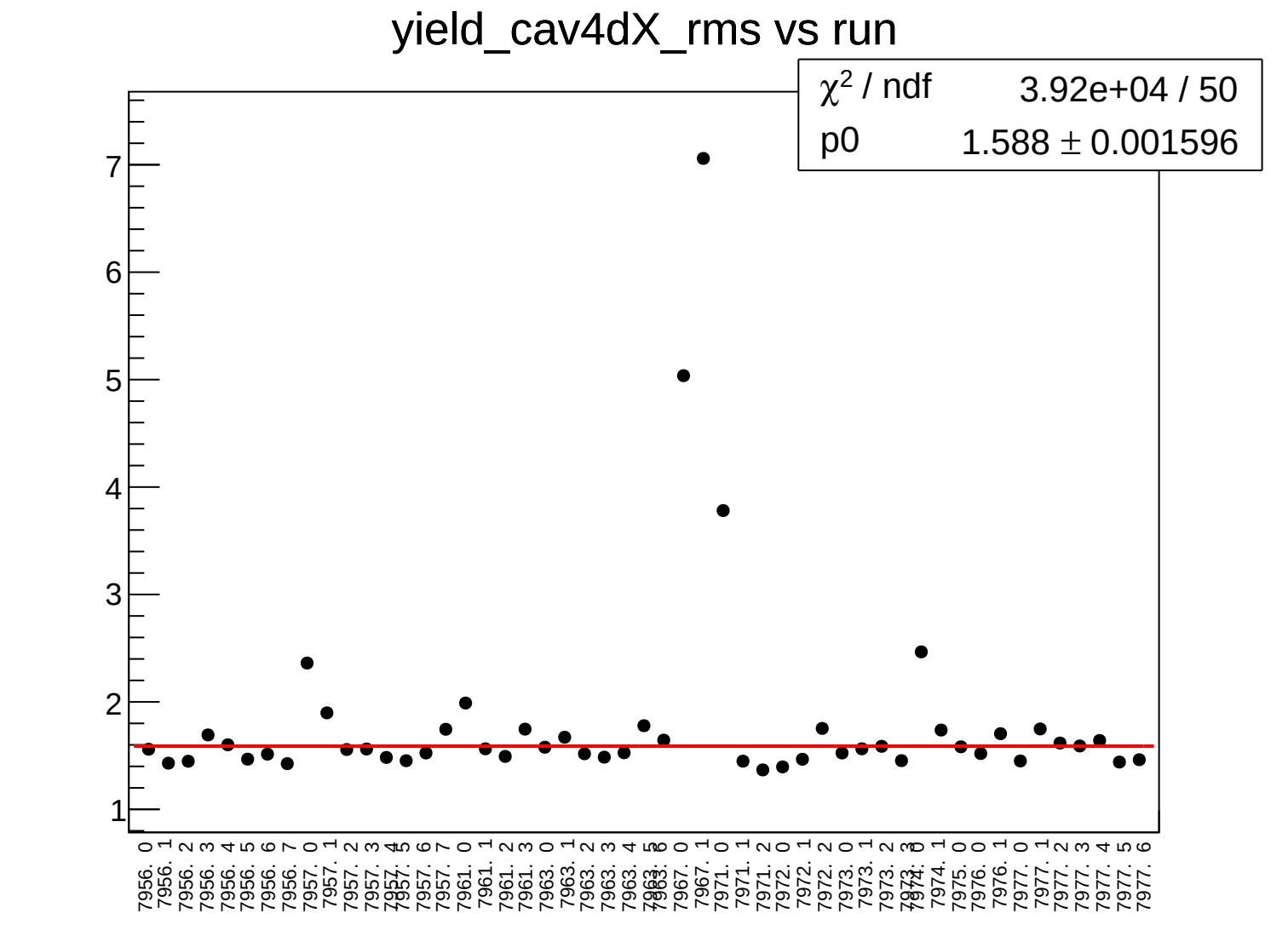
7977. 5
7977. 6


yield_cav4dX_mean vs run
χ² / ndf 5.135e+04 / 50
p0 1.999 ± 0.002258
pull
Entries 51
Mean −29.72
Std Dev 120.6


pull1D
Entries 51
Mean 0.356
Std Dev 3.817


yield_cav4dX_rms vs run
χ^2 / ndf 3.92e+04 / 50
p0 1.588 ± 0.001596
7
6
5
4
3
2
1
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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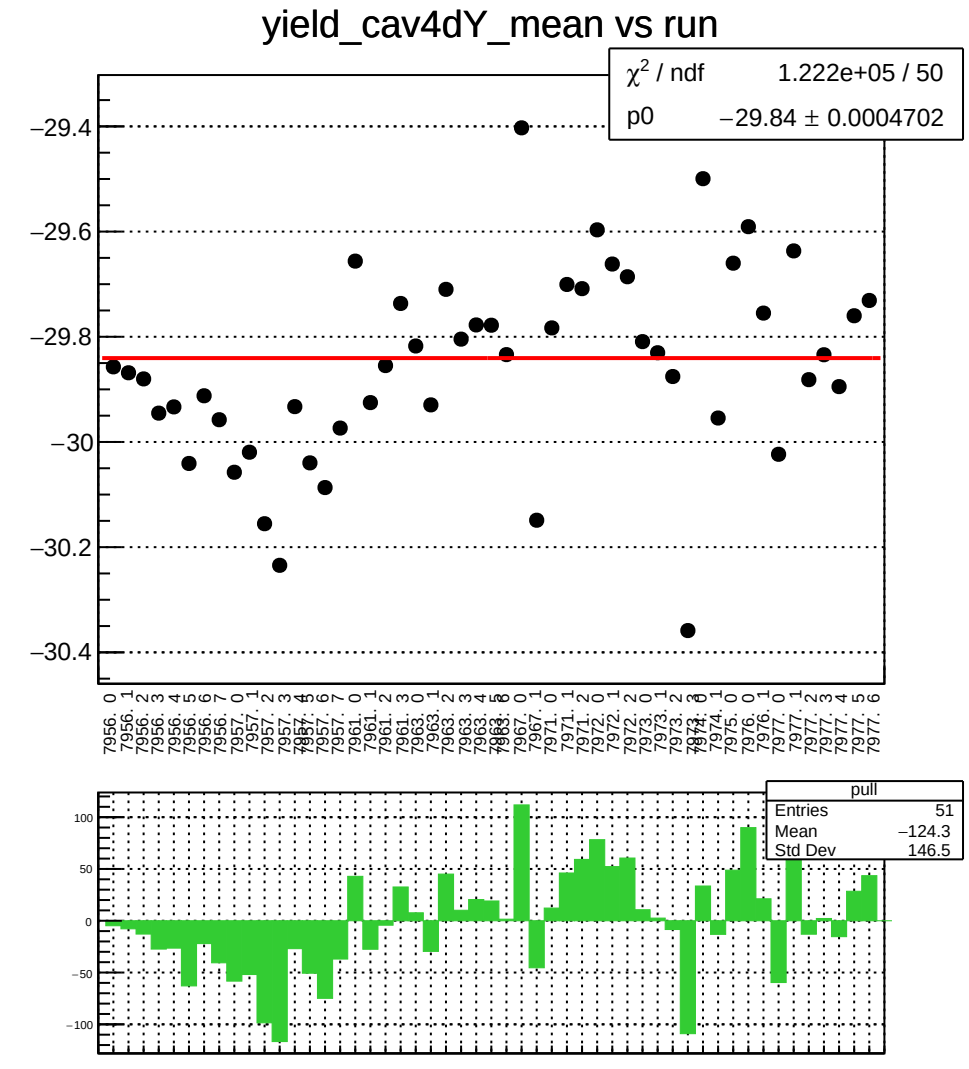
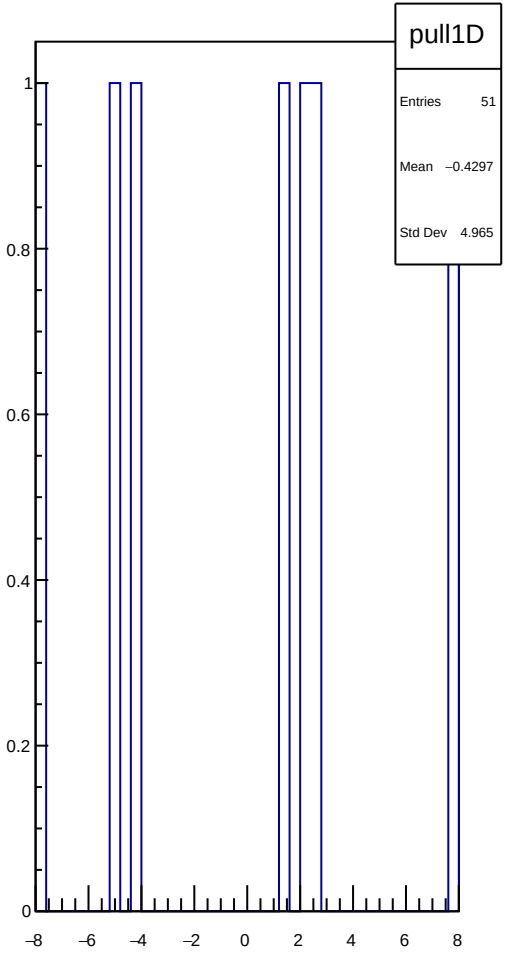
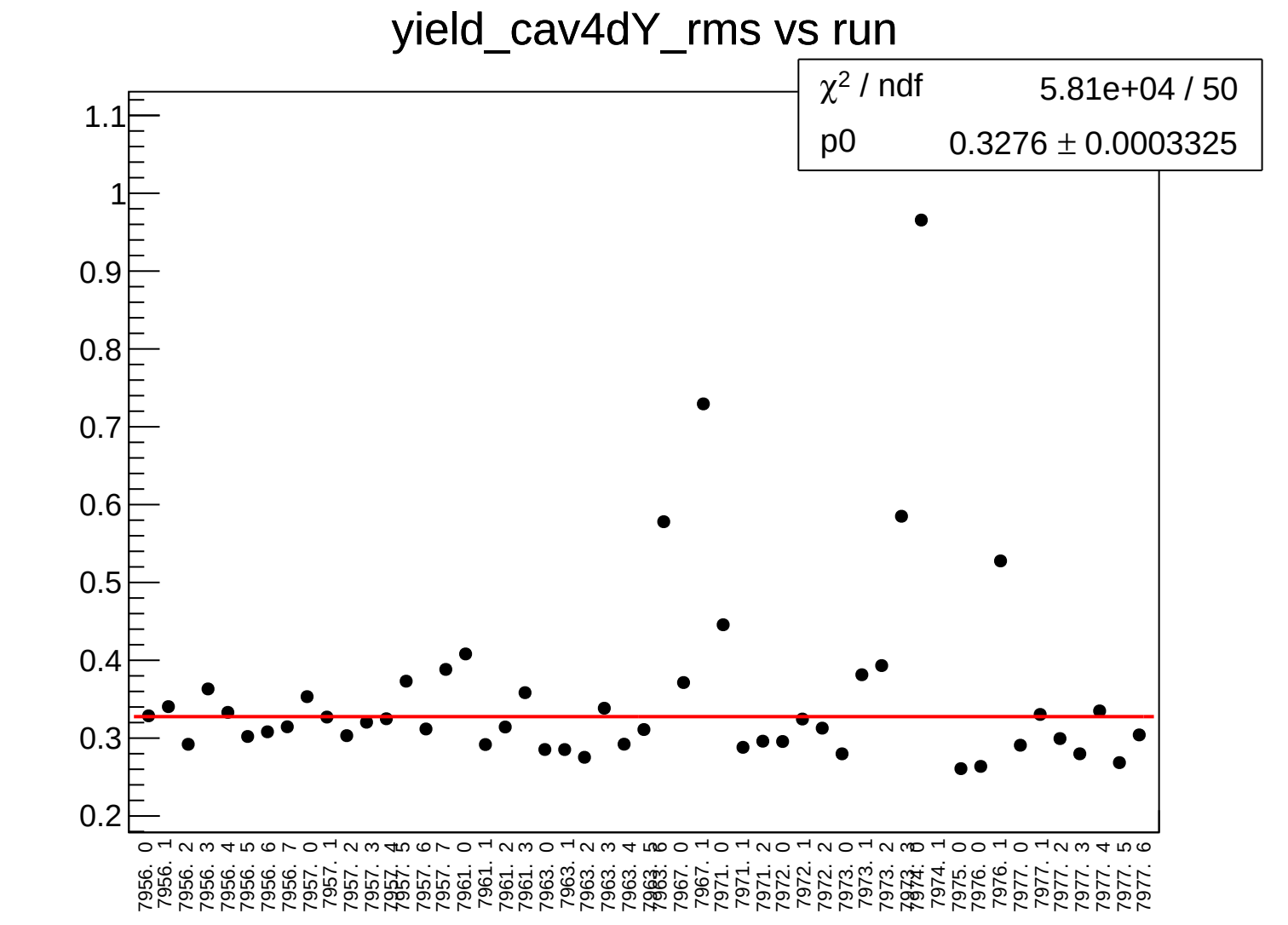
7977. 5
7977. 6


yield_cav4dY_mean vs run
χ² / ndf 1.222e+05 / 50
p0 −29.84 ± 0.0004702
−29.4
−29.6
−29.8
−30
−30.2
−30.4
pull
Entries 51
Mean −124.3
Std Dev 146.5
100
50
0
−50
−100


pull1D
Entries 51
Mean −0.4297
Std Dev 4.965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ² / ndf 5.81e+04 / 50
p0 0.3276 ± 0.0003325
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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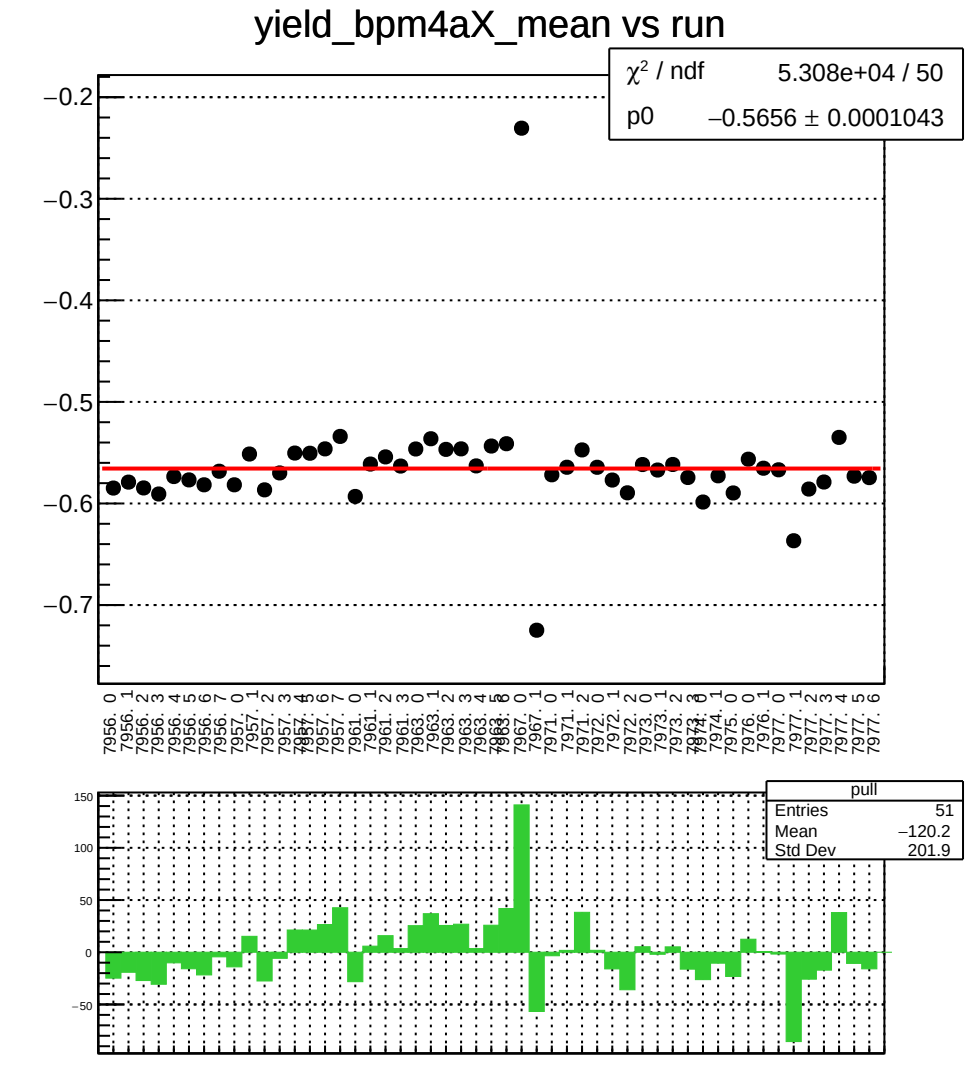
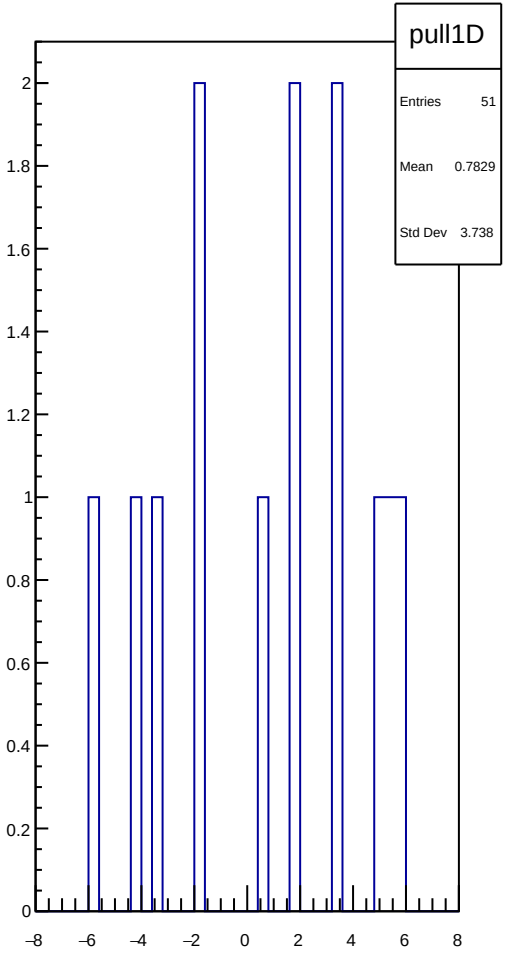
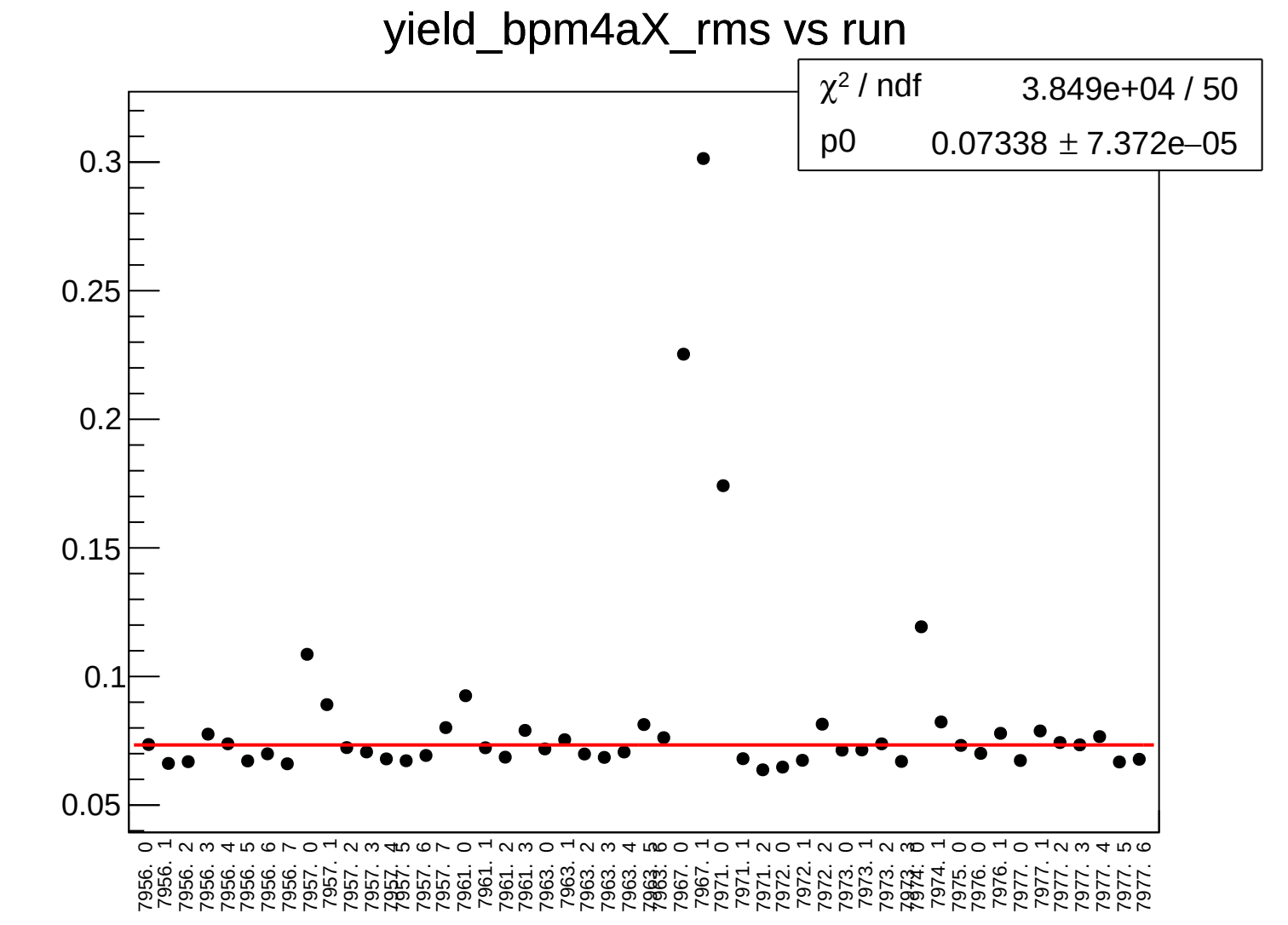
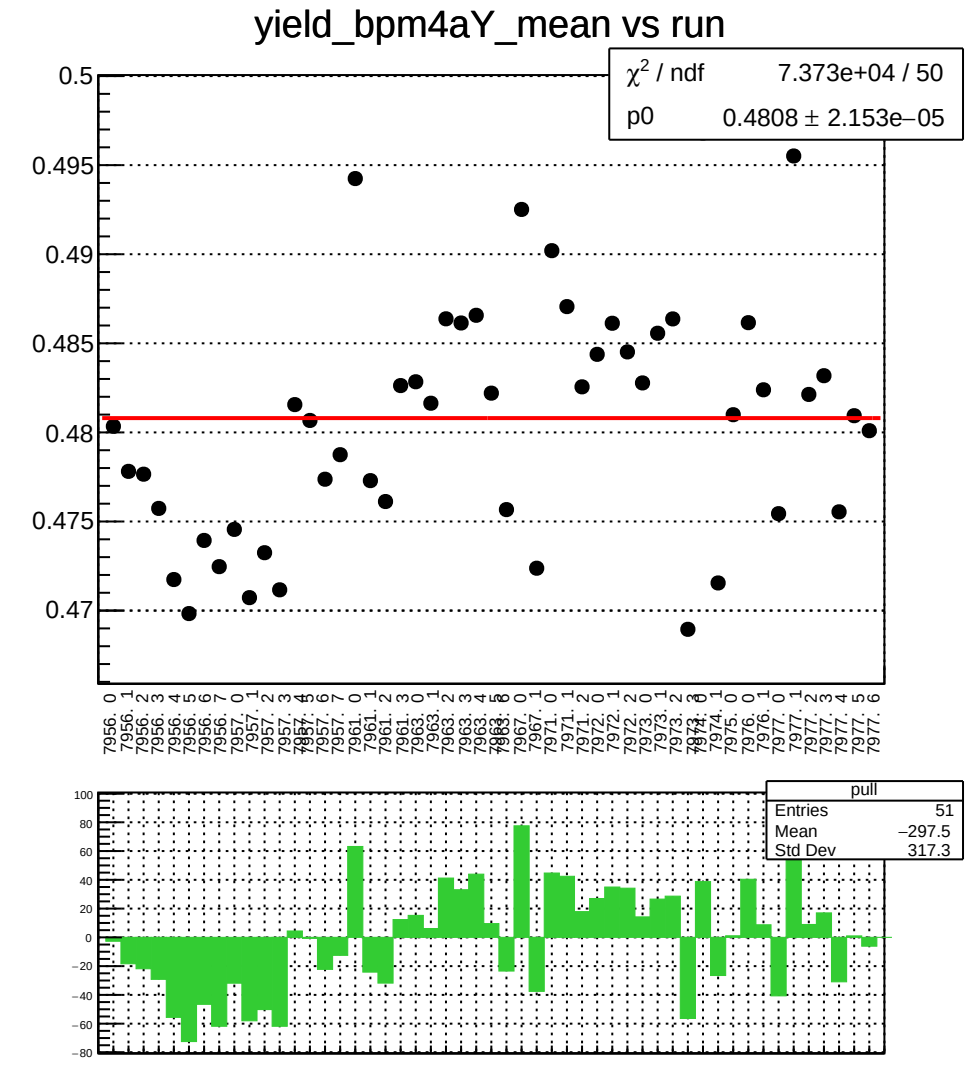
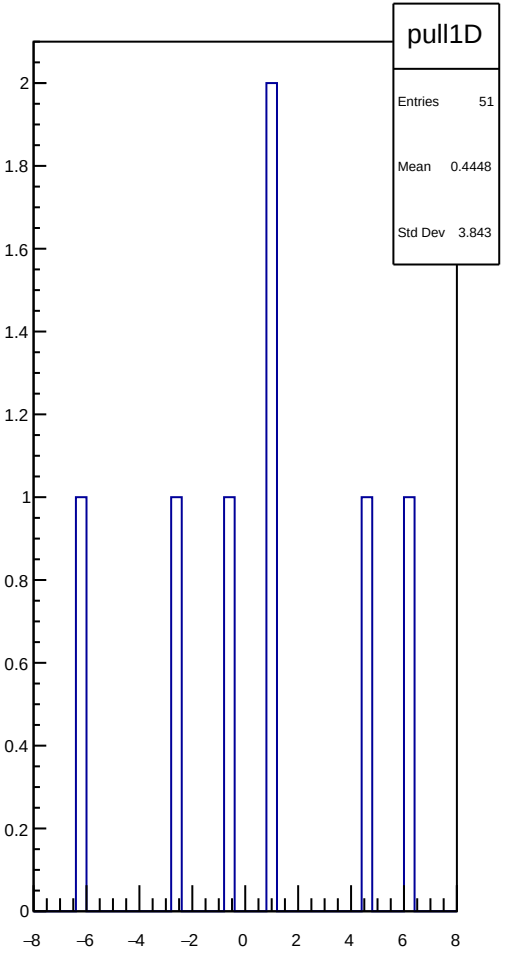
7977. 5
7977. 6

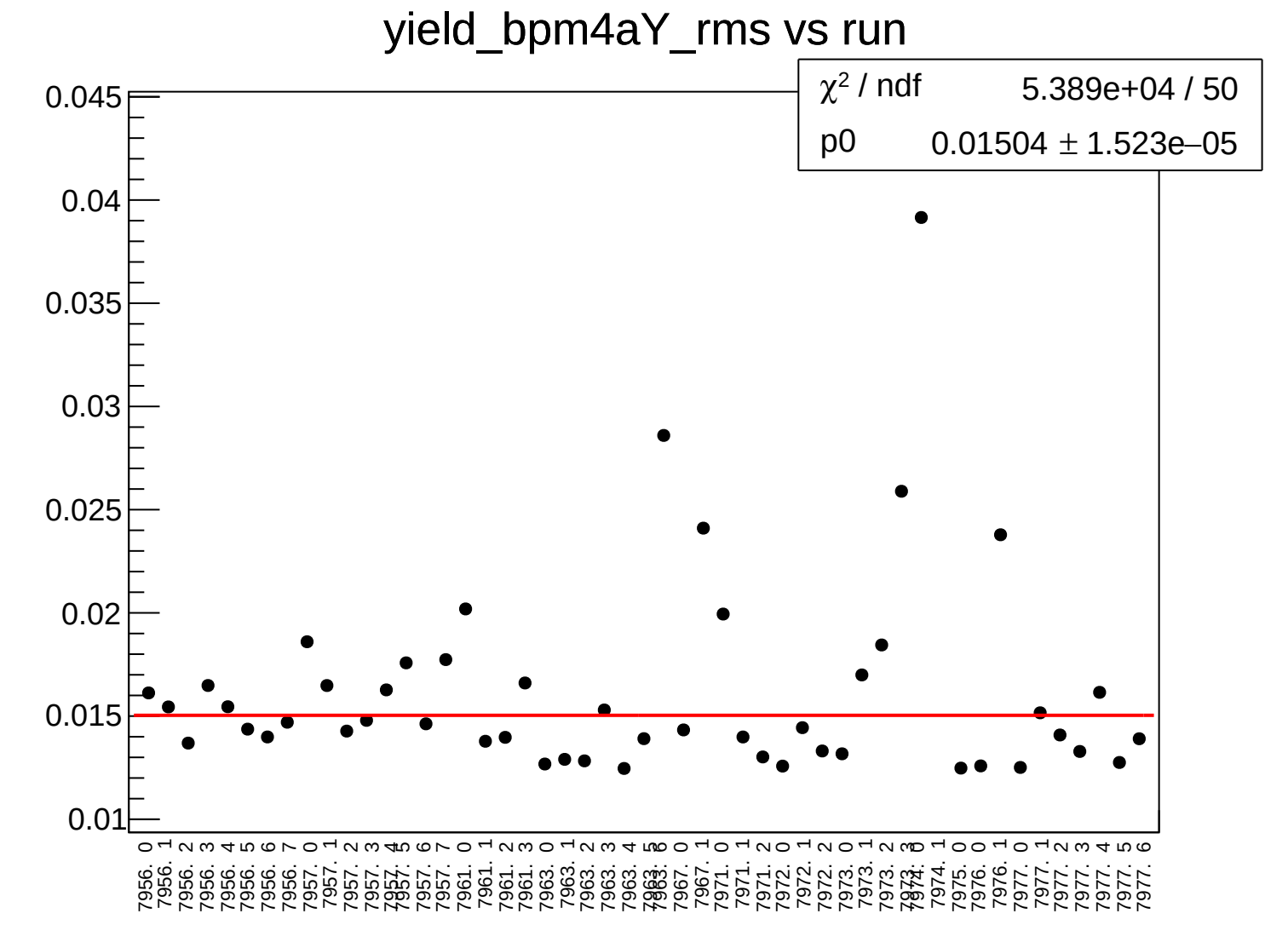

yield_bpm4aX_mean vs run
χ² / ndf 5.308e+04 / 50
p0 −0.5656 ± 0.0001043
pull
Entries 51
Mean −120.2
Std Dev 201.9


pull1D
Entries 51
Mean 0.7829
Std Dev 3.738


yield_bpm4aX_rms vs run
χ² / ndf 3.849e+04 / 50
p0 0.07338 ± 7.372e–05
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm4aY_mean vs run
χ² / ndf 7.373e+04 / 50
p0 0.4808 ± 2.153e−05
pull
Entries 51
Mean −297.5
Std Dev 317.3


pull1D
Entries 51
Mean 0.4448
Std Dev 3.843


yield_bpm4aY_rms vs run
χ² / ndf 5.389e+04 / 50
p0 0.01504 ± 1.523e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
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7973. 2
7974. 1
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7976. 0
7976. 1
7977. 0
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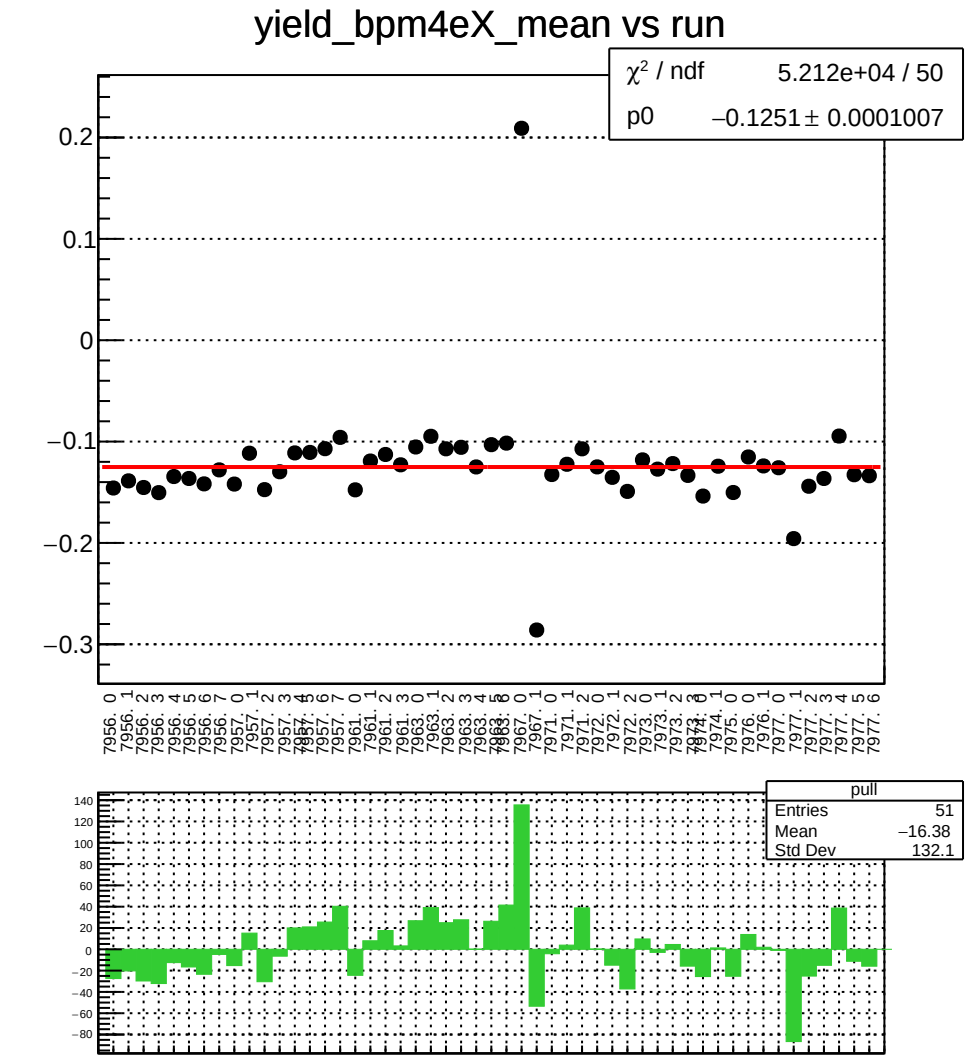
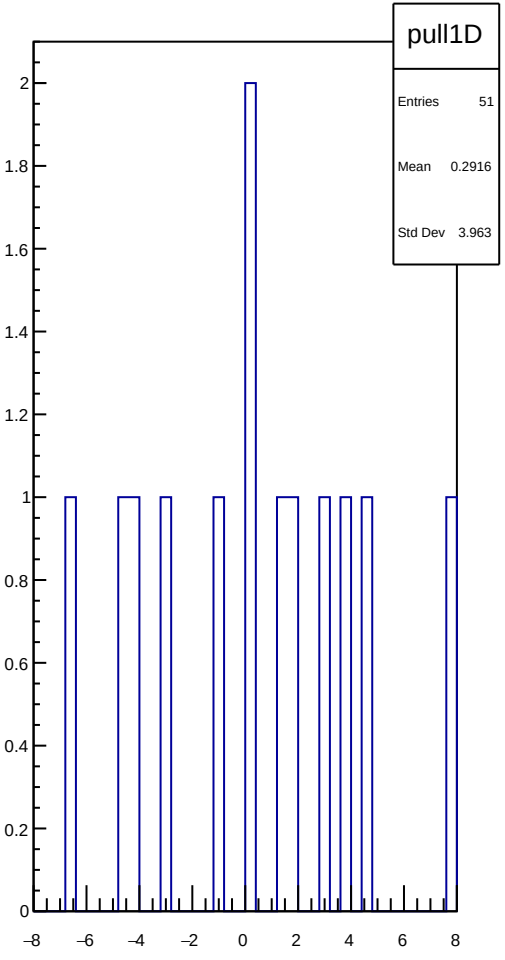
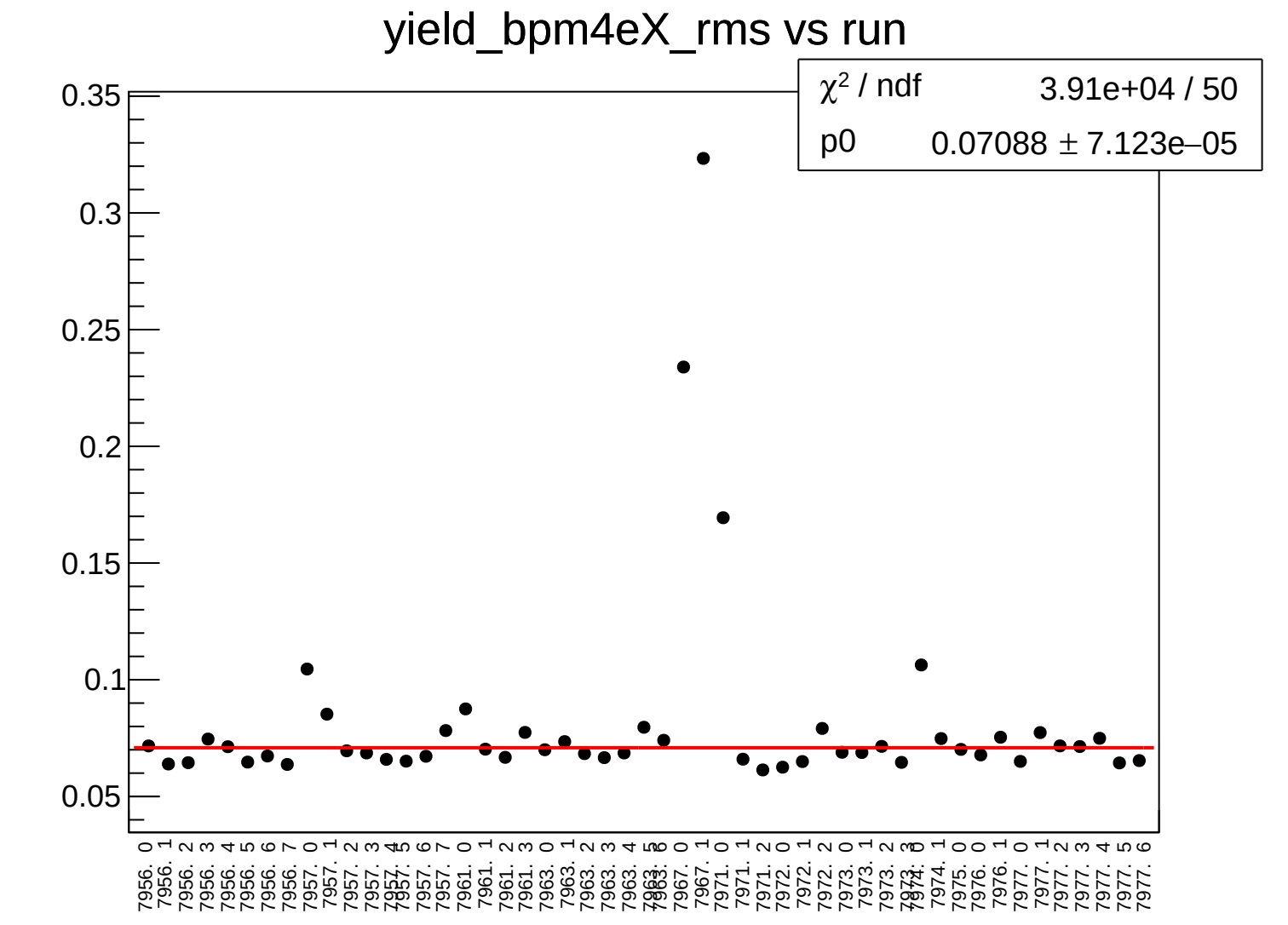
7977. 4
7977. 5
7977. 6


yield_bpm4eX_mean vs run
χ² / ndf 5.212e+04 / 50
p0 −0.1251 ± 0.0001007
pull
Entries 51
Mean −16.38
Std Dev 132.1


pull1D
Entries 51
Mean 0.2916
Std Dev 3.963


yield_bpm4eX_rms vs run
χ² / ndf 3.91e+04 / 50
p0 0.07088 ± 7.123e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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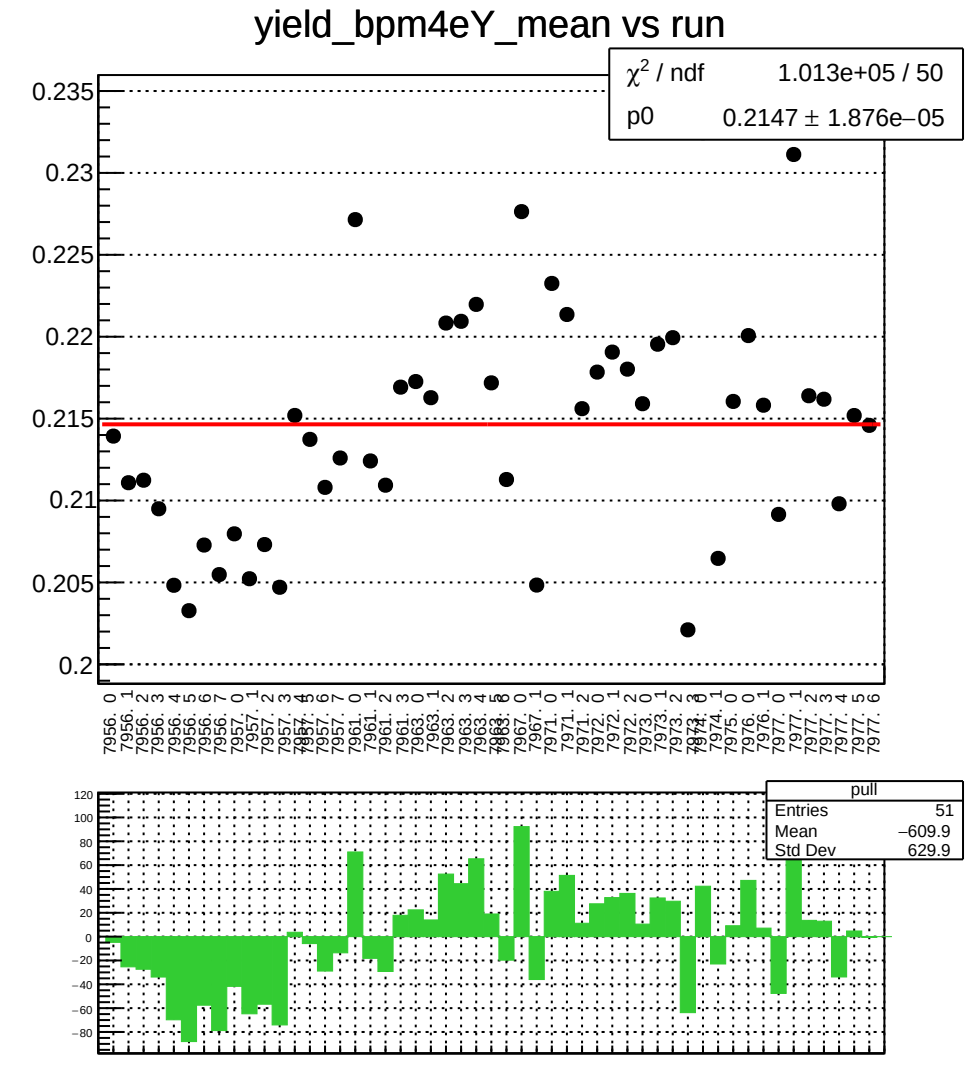
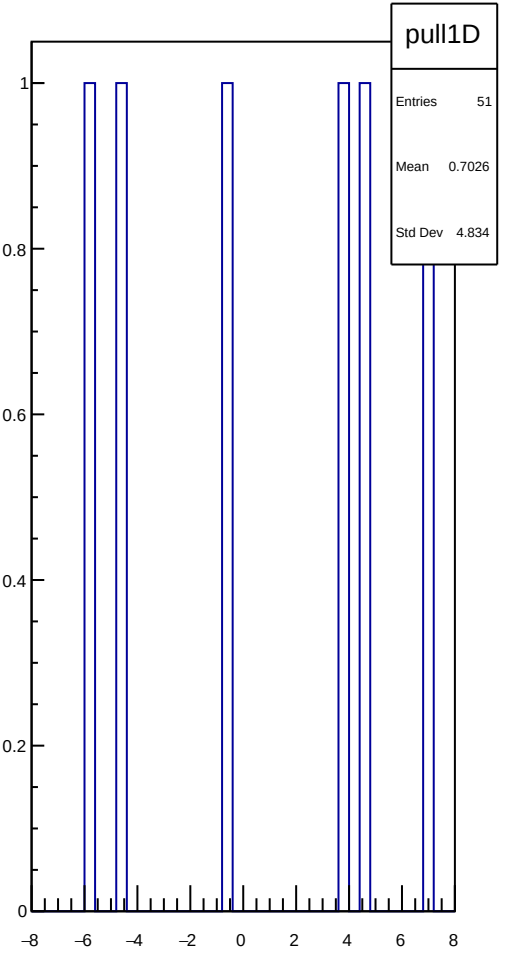
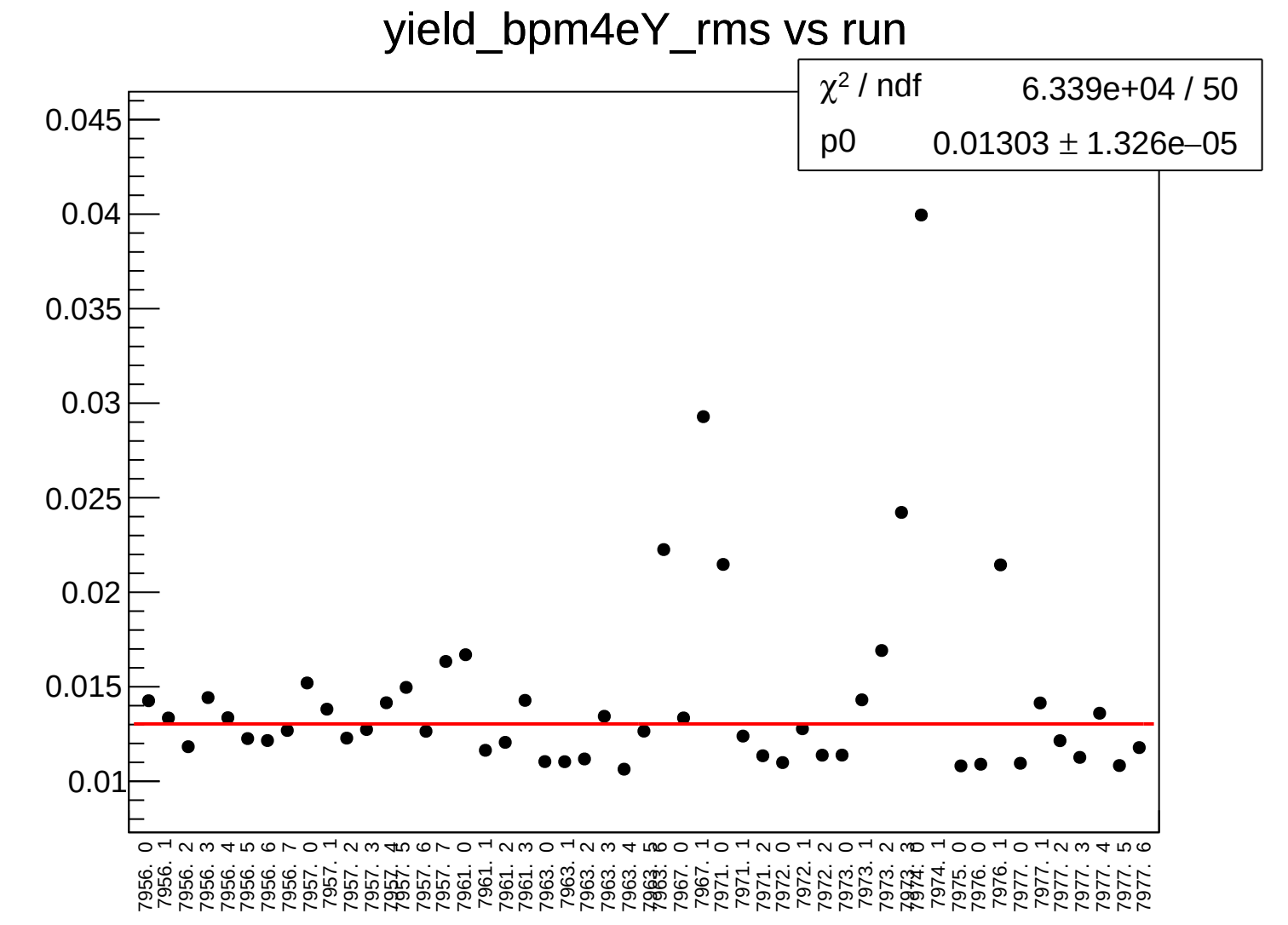
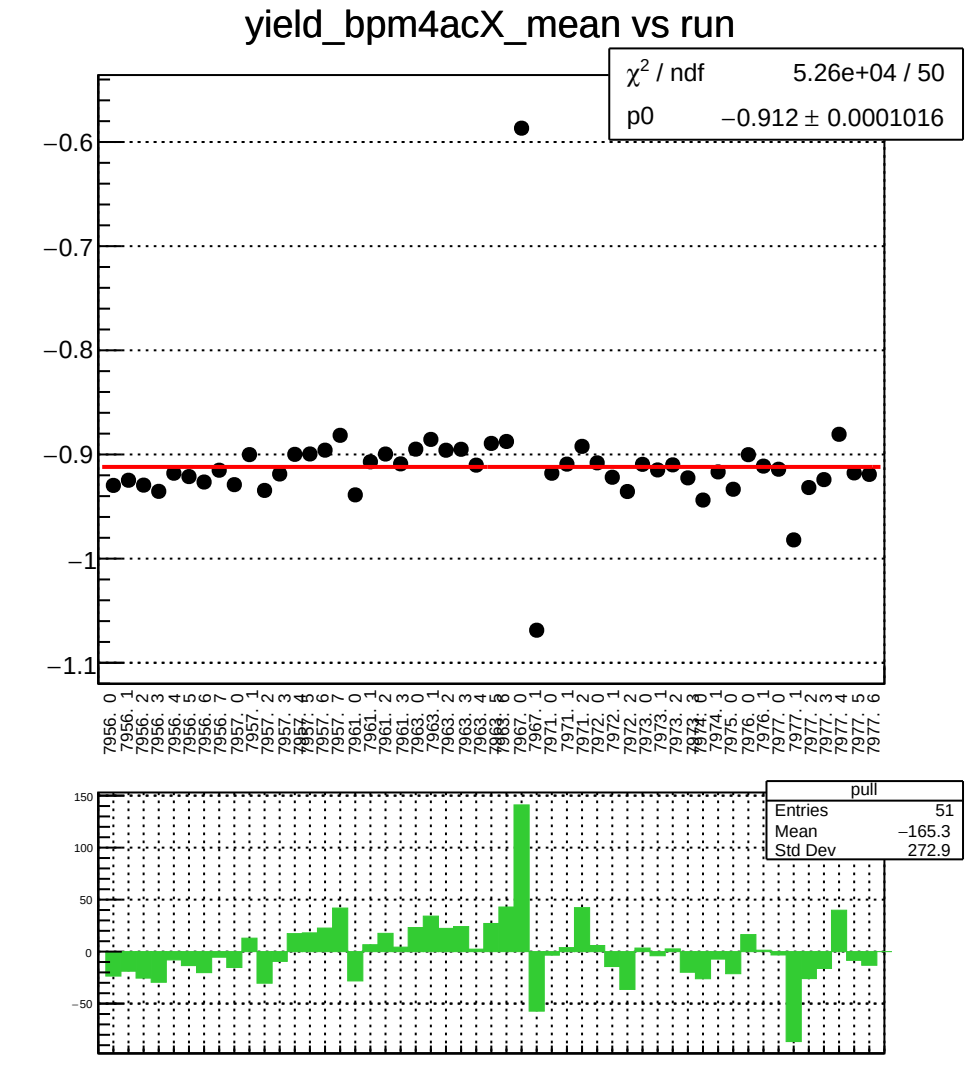
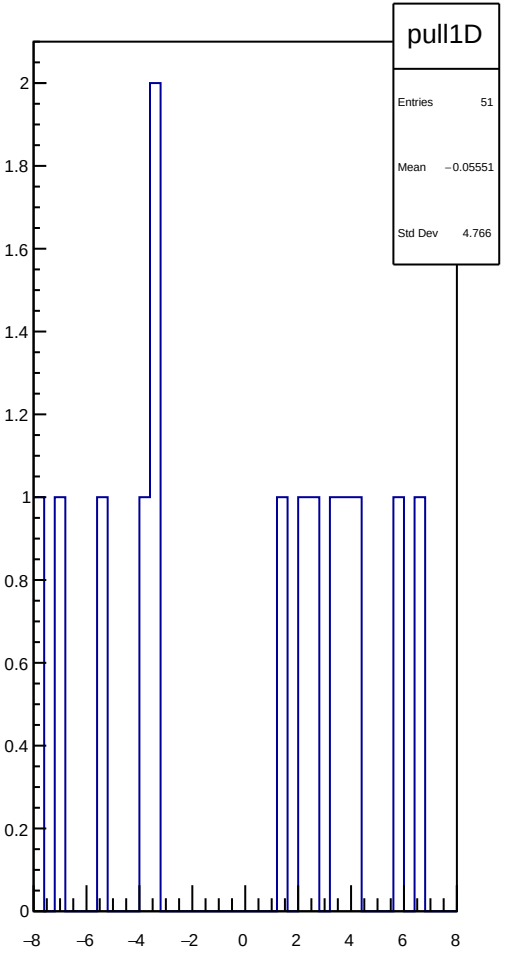
7977. 5
7977. 6

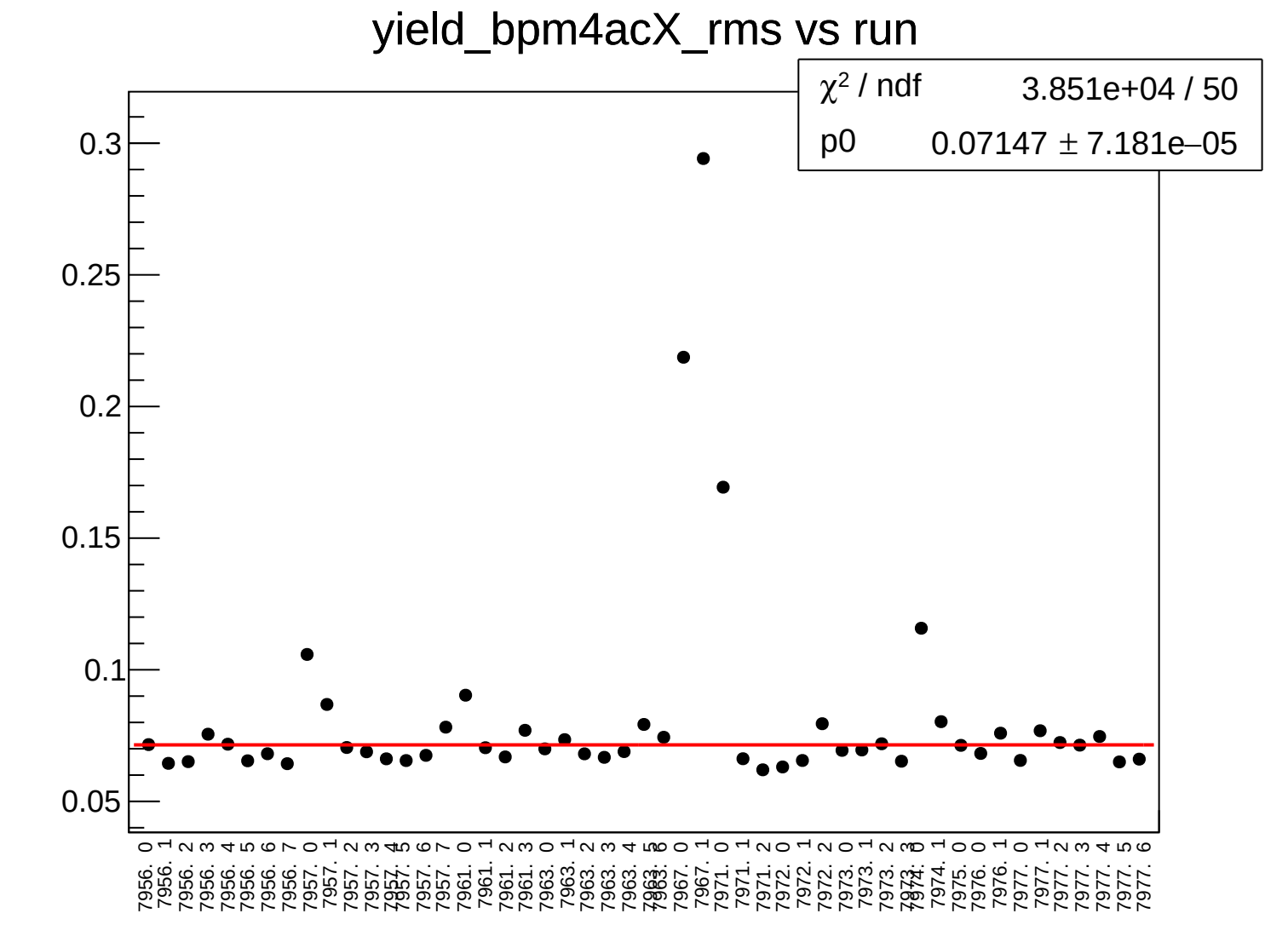

yield_bpm4eY_mean vs run
χ² / ndf 1.013e+05 / 50
p0 0.2147 ± 1.876e−05
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
pull
Entries 51
Mean −609.9
Std Dev 629.9
120
100
80
60
40
20
0
−20
−40
−60
−80


pull1D
Entries 51
Mean 0.7026
Std Dev 4.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4eY_rms vs run
χ² / ndf 6.339e+04 / 50
p0 0.01303 ± 1.326e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm4acX_mean vs run
χ² / ndf 5.26e+04 / 50
p0 −0.912 ± 0.0001016
−0.6
−0.7
−0.8
−0.9
−1
−1.1
pull
Entries 51
Mean −165.3
Std Dev 272.9
150
100
50
0
−50


pull1D
Entries 51
Mean −0.05551
Std Dev 4.766
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4acX_rms vs run
χ² / ndf 3.851e+04 / 50
p0 0.07147 ± 7.181e–05
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
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7977. 3
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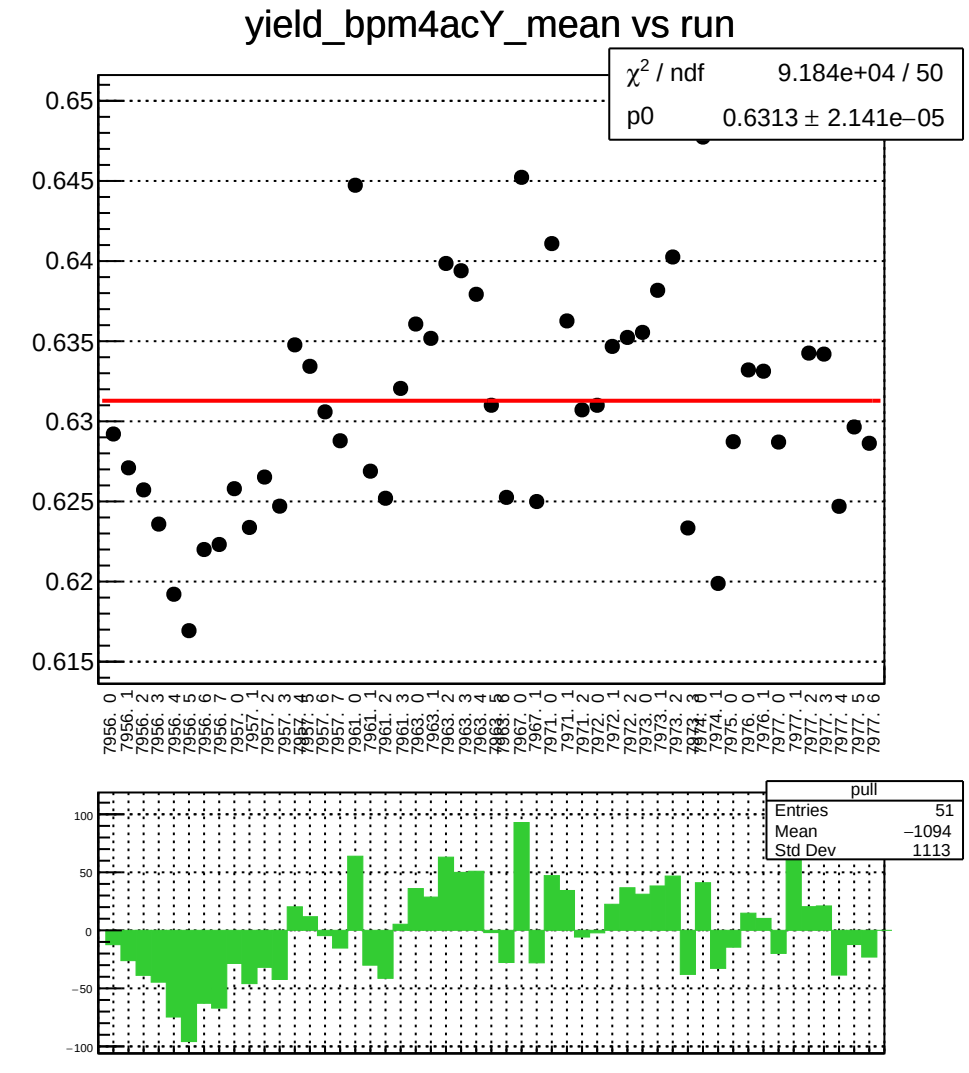
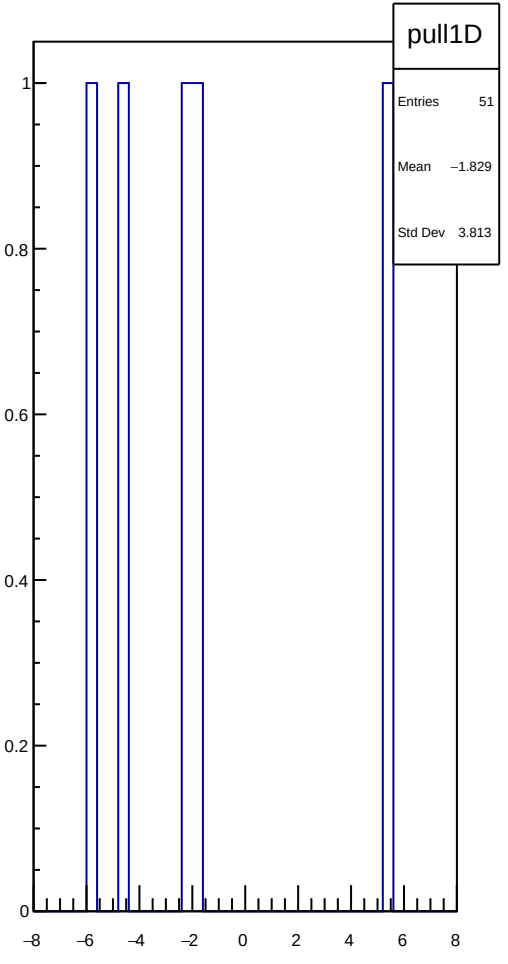
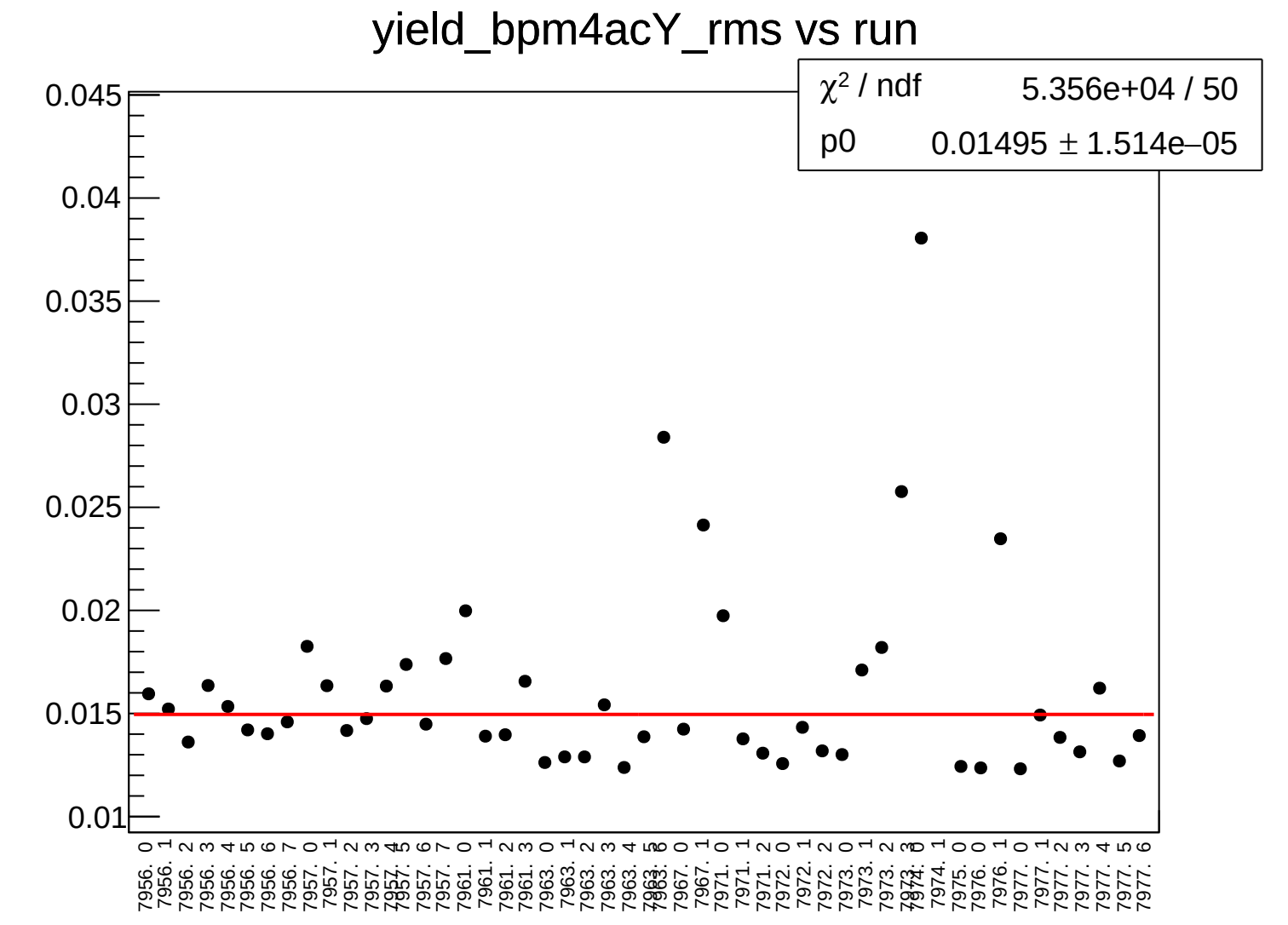
7977. 5
7977. 6


yield_bpm4acY_mean vs run
χ² / ndf 9.184e+04 / 50
p0 0.6313 ± 2.141e−05
pull
Entries 51
Mean −1094
Std Dev 1113


pull1D
Entries 51
Mean −1.829
Std Dev 3.813


yield_bpm4acY_rms vs run
χ² / ndf 5.356e+04 / 50
p0 0.01495 ± 1.514e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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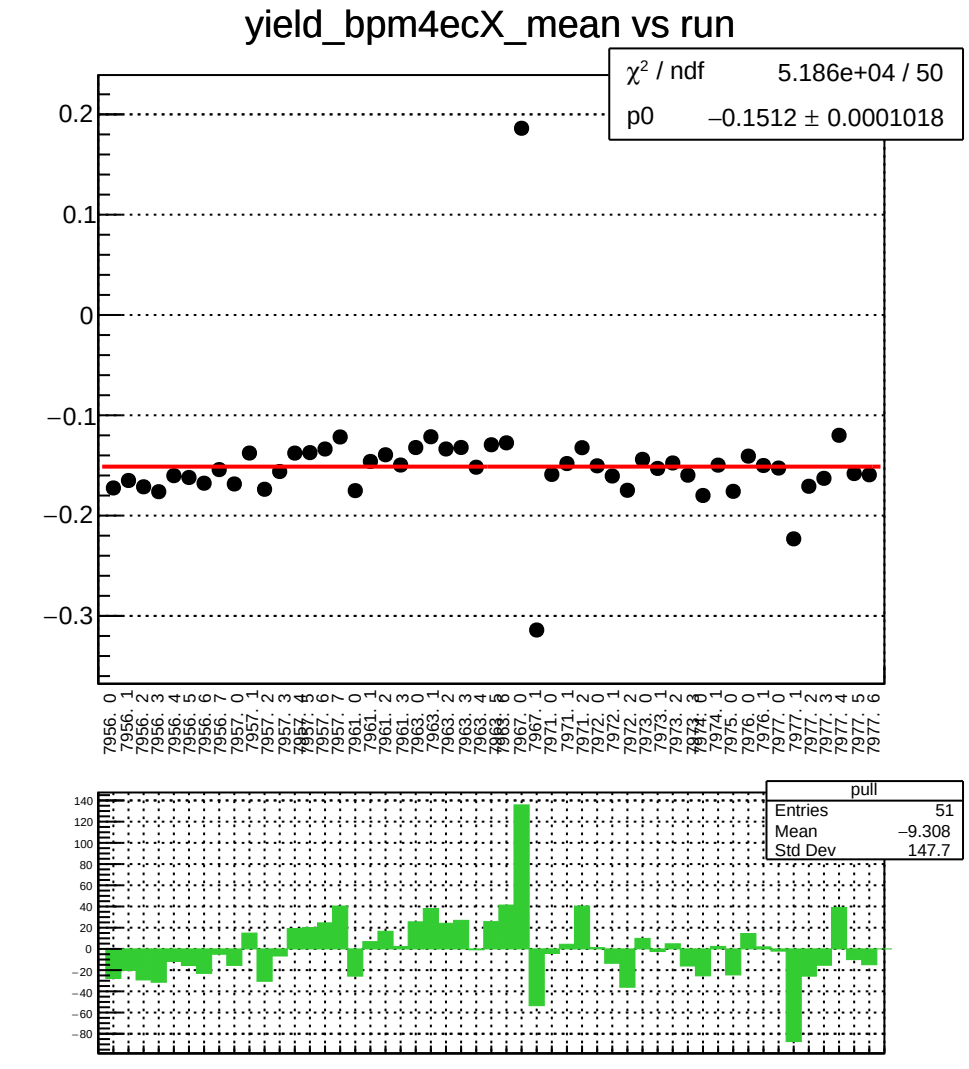
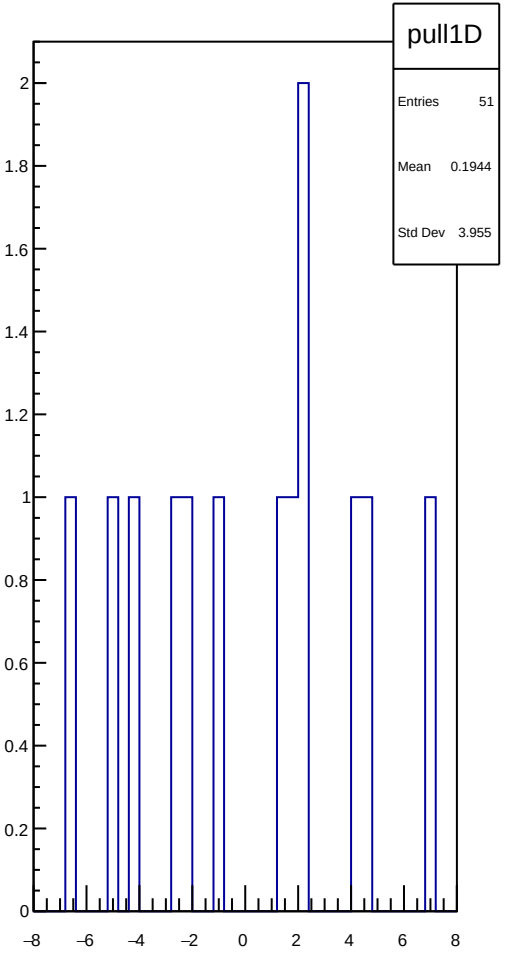
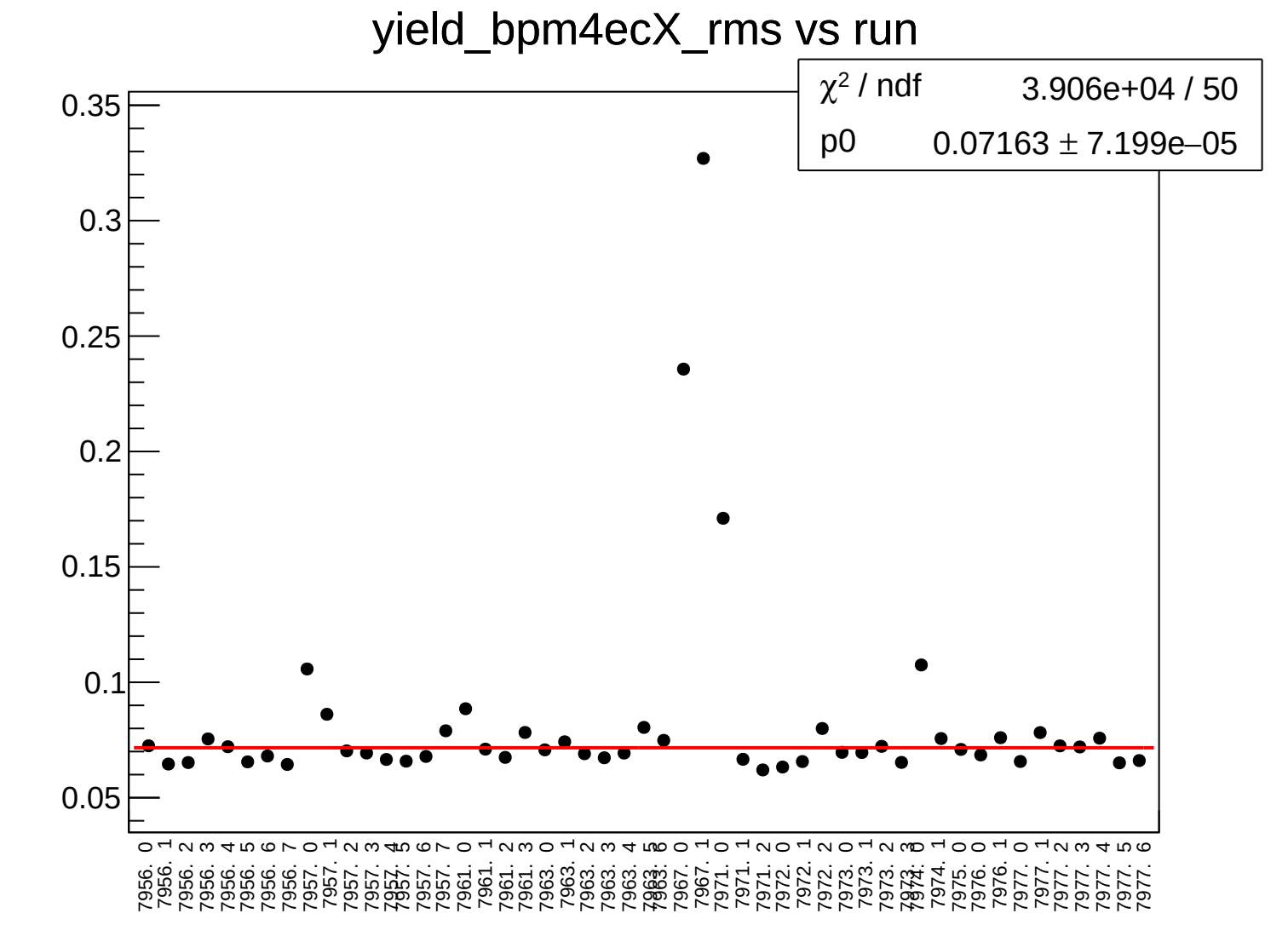
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm4ecX_mean vs run
χ² / ndf 5.186e+04 / 50
p0 −0.1512 ± 0.0001018
pull
Entries 51
Mean −9.308
Std Dev 147.7


pull1D
Entries 51
Mean 0.1944
Std Dev 3.955


yield_bpm4ecX_rms vs run
χ² / ndf 3.906e+04 / 50
p0 0.07163 ± 7.199e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7977. 0
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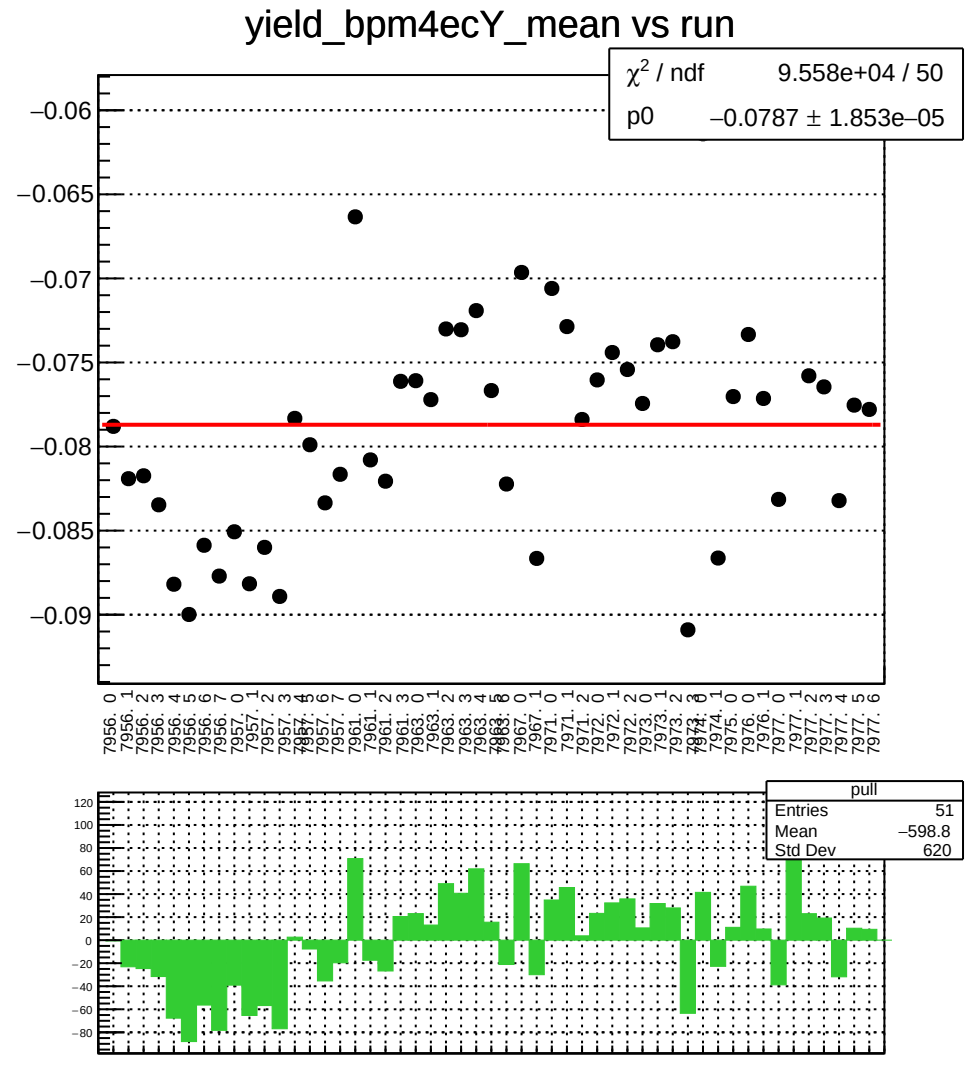
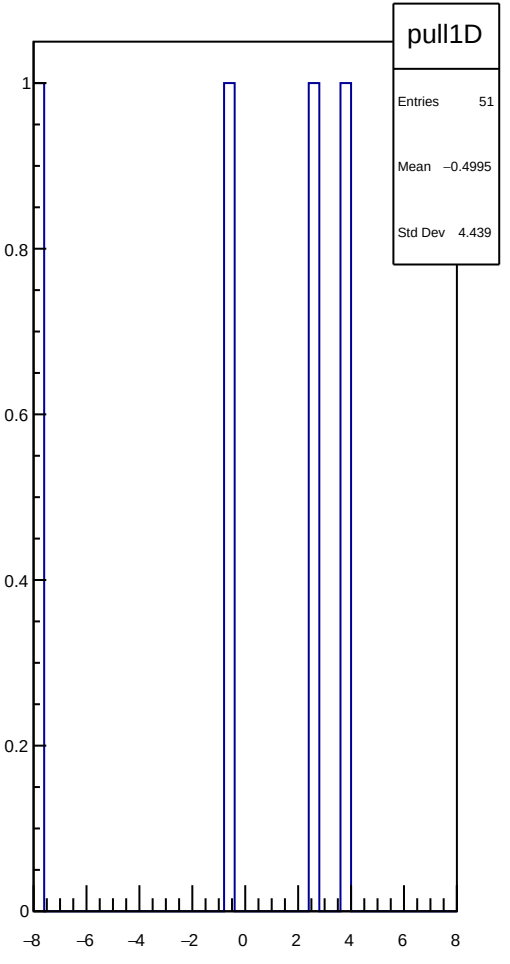
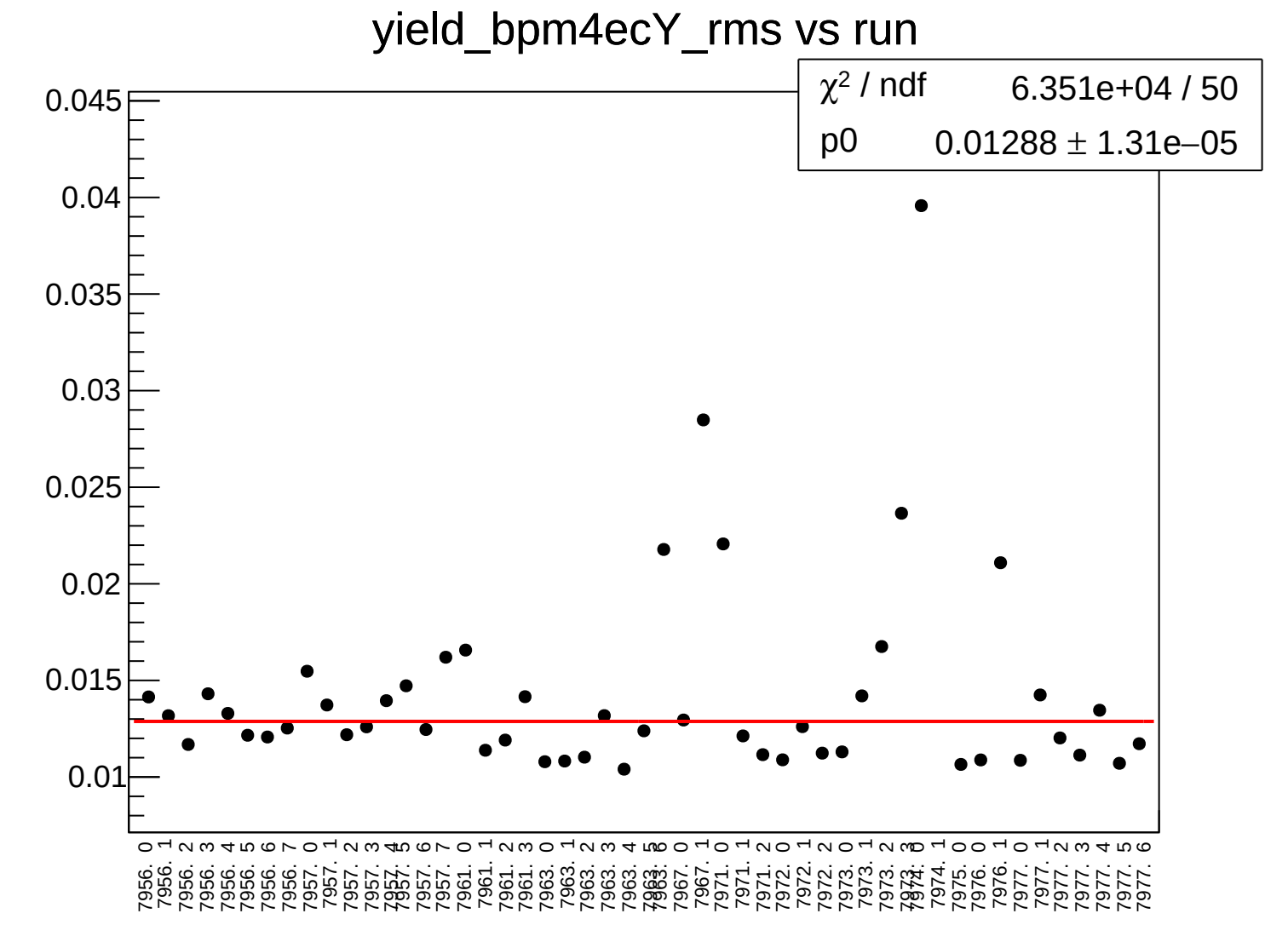
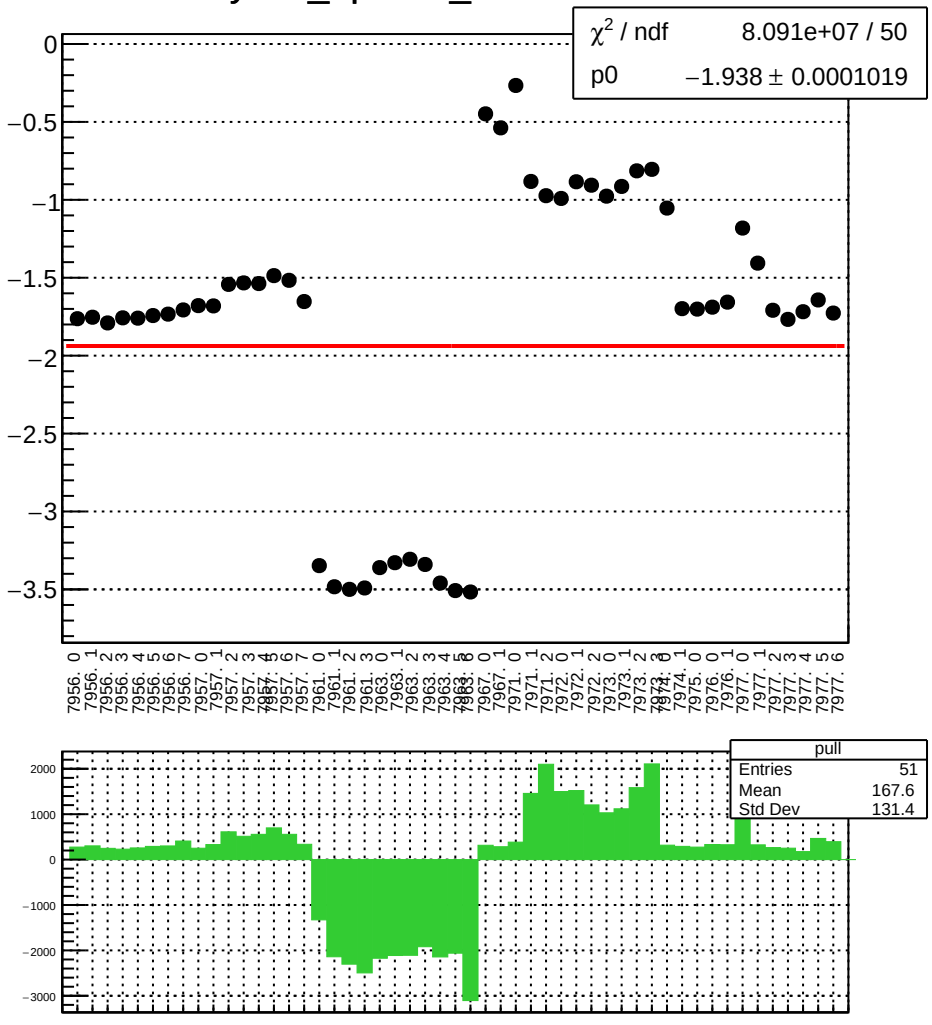
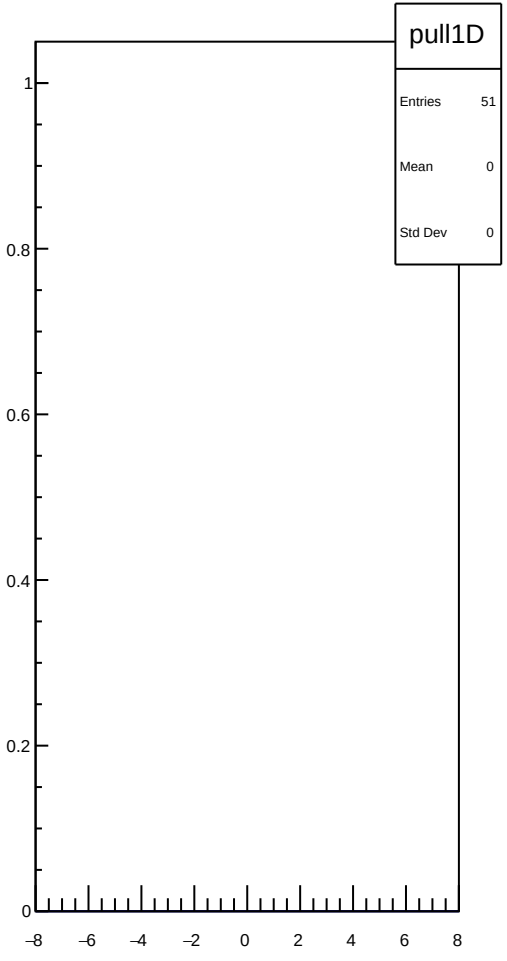
7977. 3
7977. 4
7977. 5
7977. 6

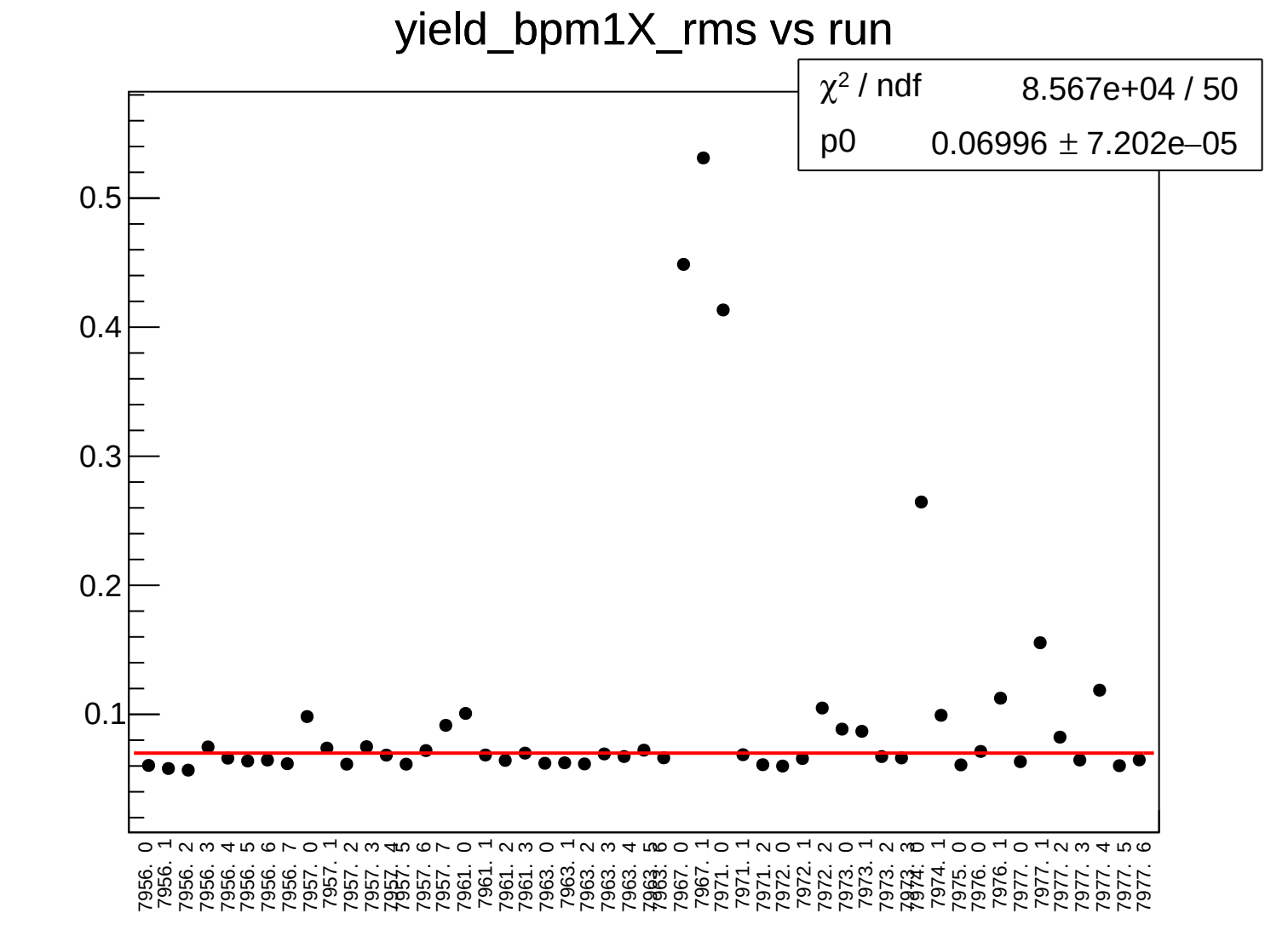

yield_bpm4ecY_mean vs run
χ² / ndf 9.558e+04 / 50
p0 −0.0787 ± 1.853e−05
−0.06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
pull
Entries 51
Mean −598.8
Std Dev 620
120
100
80
60
40
20
0
−20
−40
−60
−80


pull1D
Entries 51
Mean −0.4995
Std Dev 4.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm4ecY_rms vs run
χ² / ndf 6.351e+04 / 50
p0 0.01288 ± 1.31e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01


yield_bpm1X_mean vs run
χ² / ndf 8.091e+07 / 50
p0 −1.938 ± 0.0001019
pull
Entries 51
Mean 167.6
Std Dev 131.4


pull1D
Entries 51
Mean 0
Std Dev 0


yield_bpm1X_rms vs run
χ² / ndf 8.567e+04 / 50
p0 0.06996 ± 7.202e–05
0.5
0.4
0.3
0.2
0.1
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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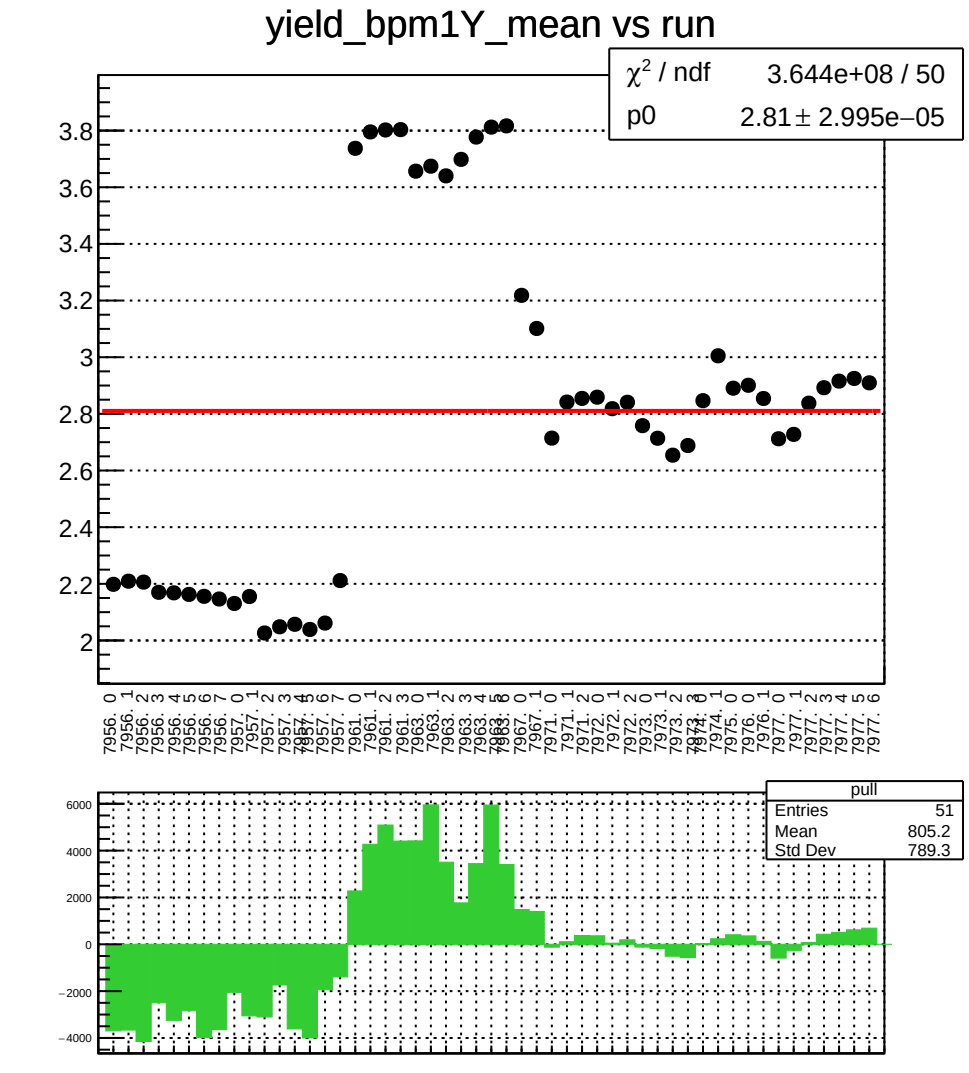
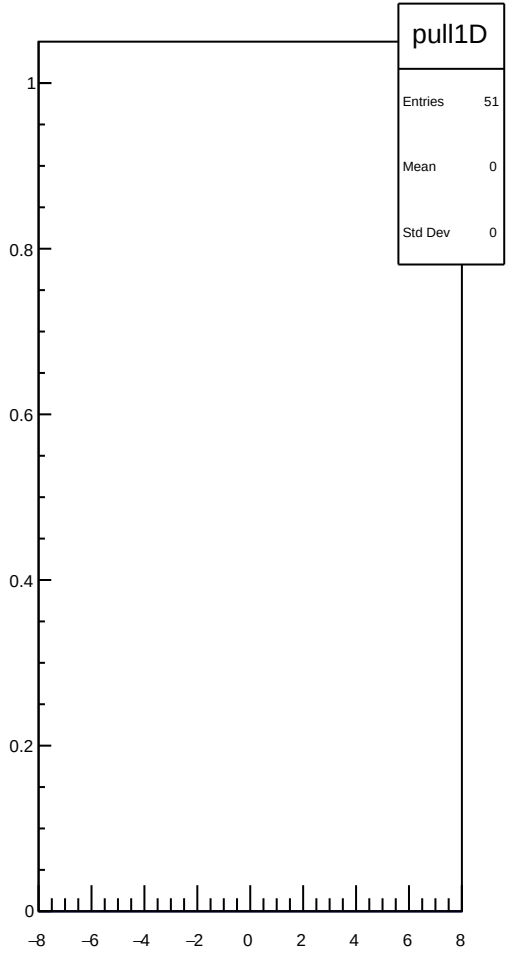
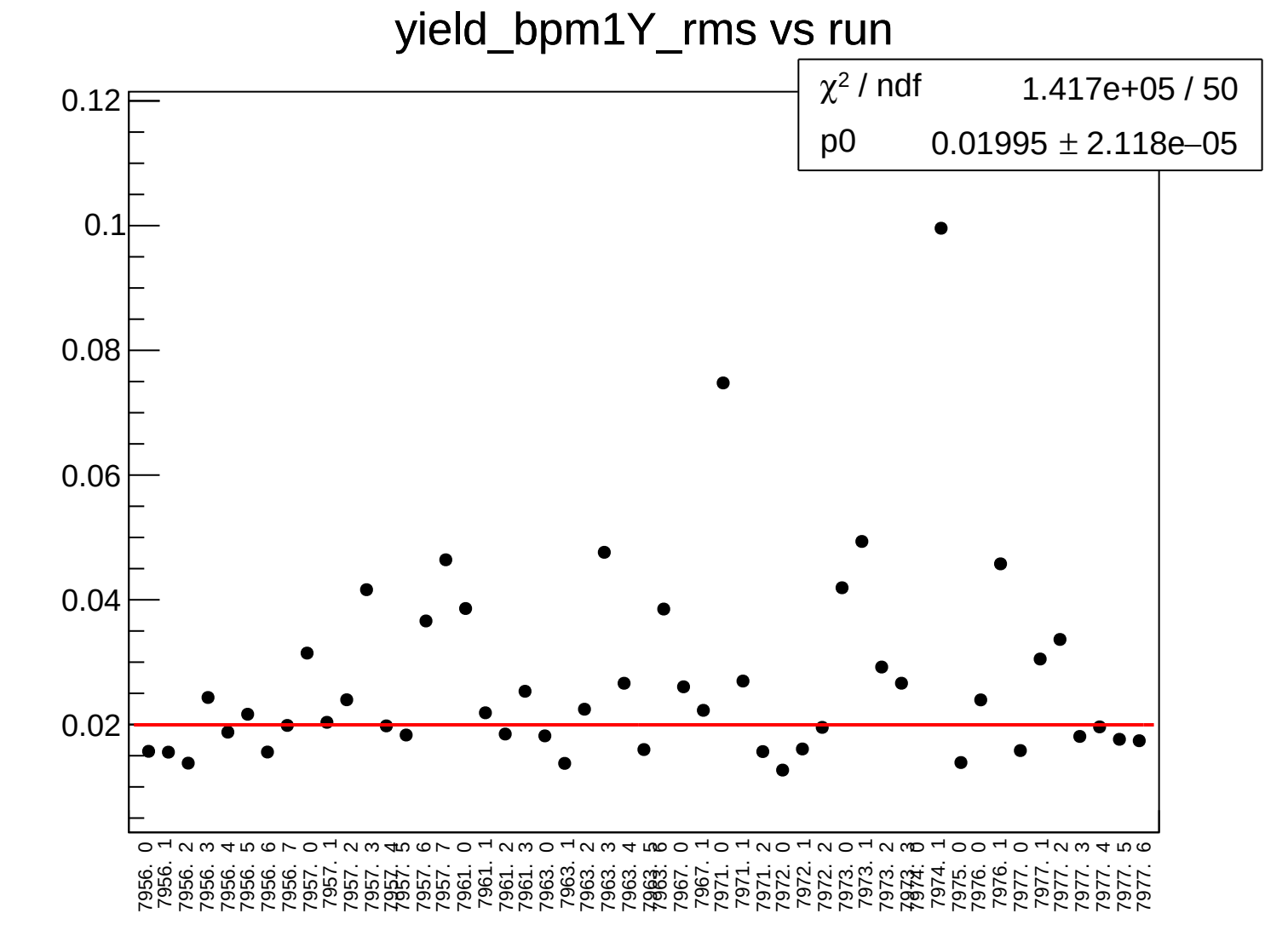
7977. 5
7977. 6


yield_bpm1Y_mean vs run
χ² / ndf 3.644e+08 / 50
p0 2.81 ± 2.995e−05
pull
Entries 51
Mean 805.2
Std Dev 789.3


pull1D
Entries 51
Mean 0
Std Dev 0


yield_bpm1Y_rms vs run
χ² / ndf 1.417e+05 / 50
p0 0.01995 ± 2.118e–05
0.12
0.1
0.08
0.06
0.04
0.02
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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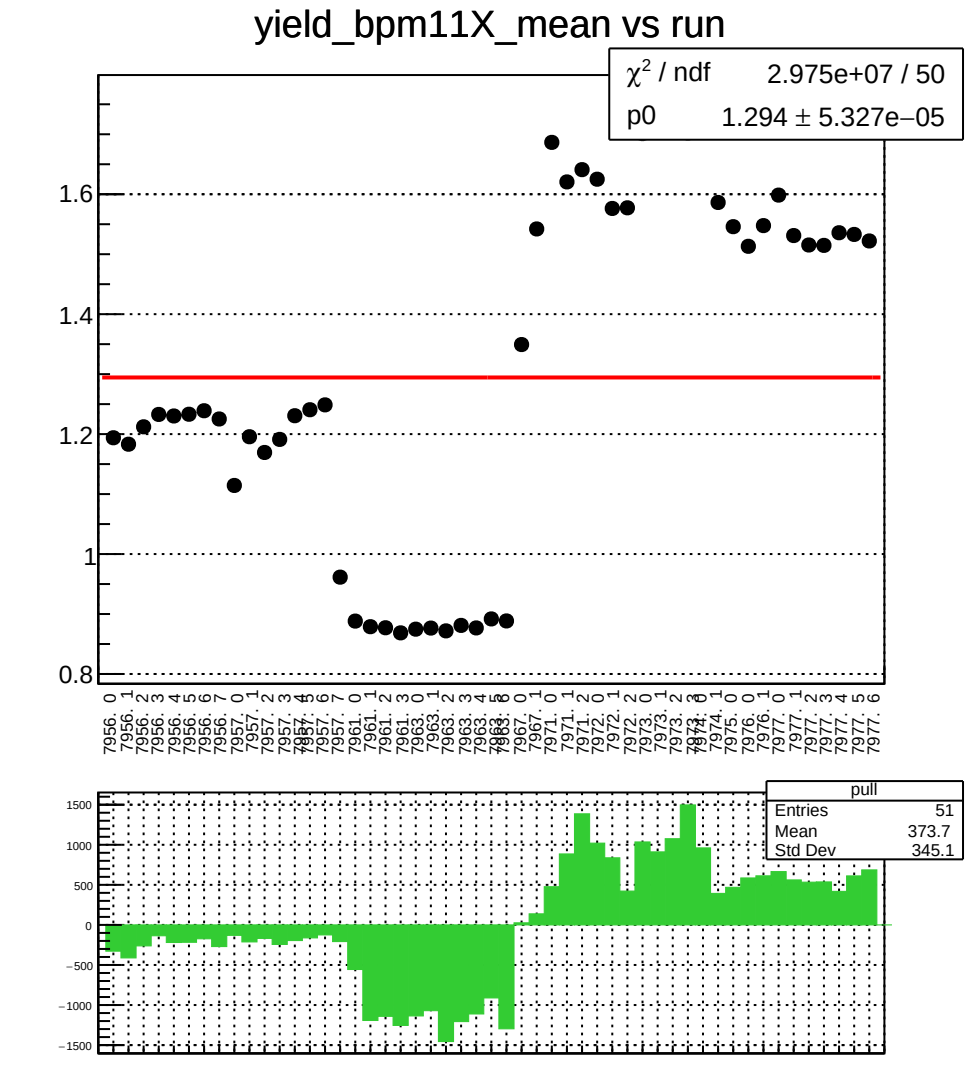
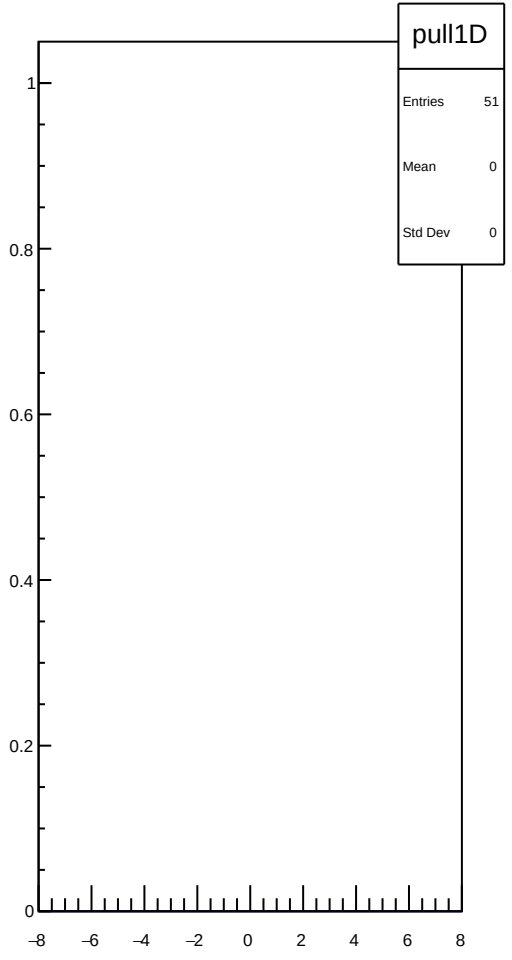
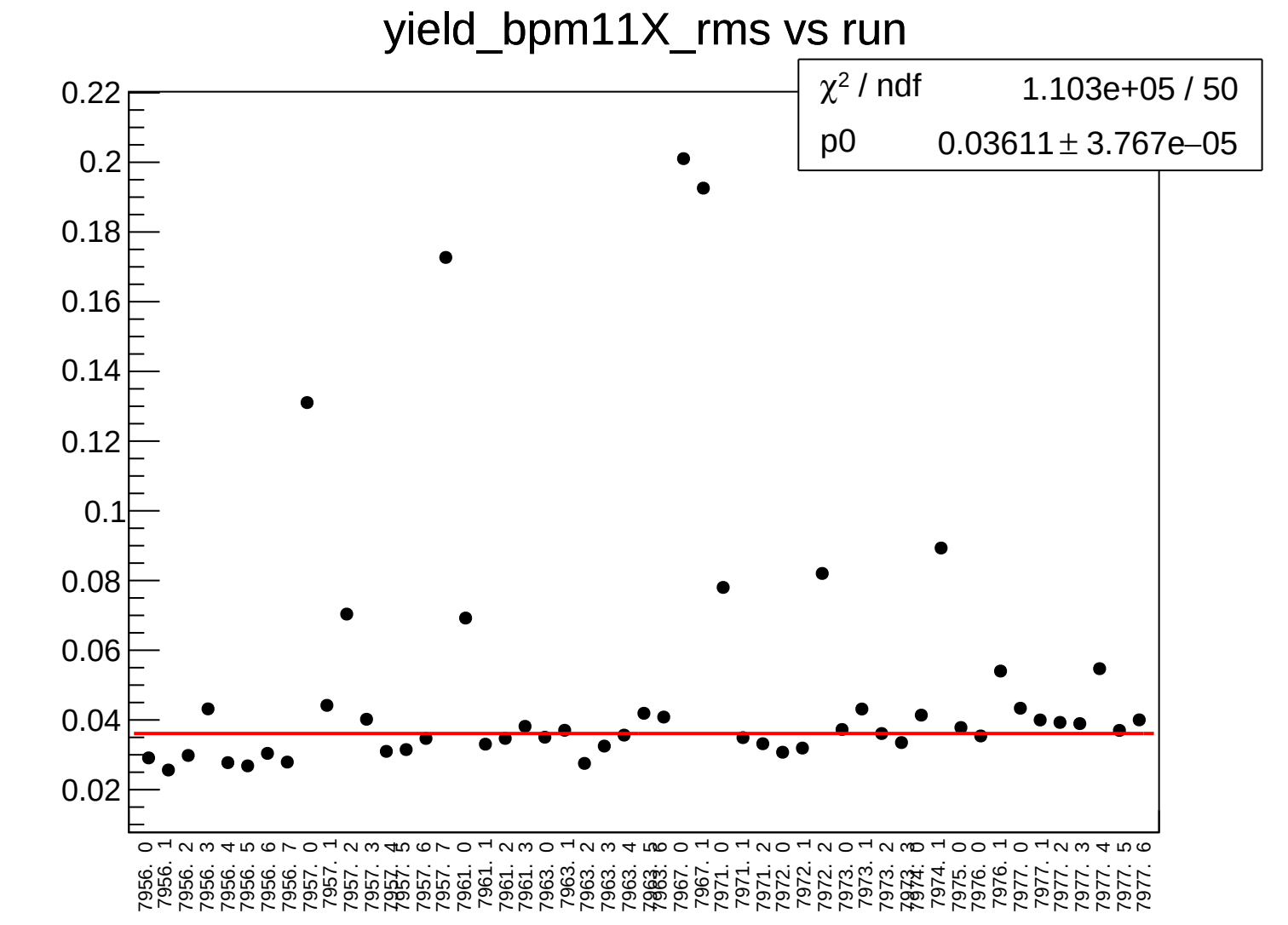
7977. 5
7977. 6


yield_bpm11X_mean vs run
χ² / ndf 2.975e+07 / 50
p0 1.294 ± 5.327e−05
pull
Entries 51
Mean 373.7
Std Dev 345.1


pull1D
Entries 51
Mean 0
Std Dev 0


yield_bpm11X_rms vs run
χ² / ndf 1.103e+05 / 50
p0 0.03611 ± 3.767e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
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7977. 1
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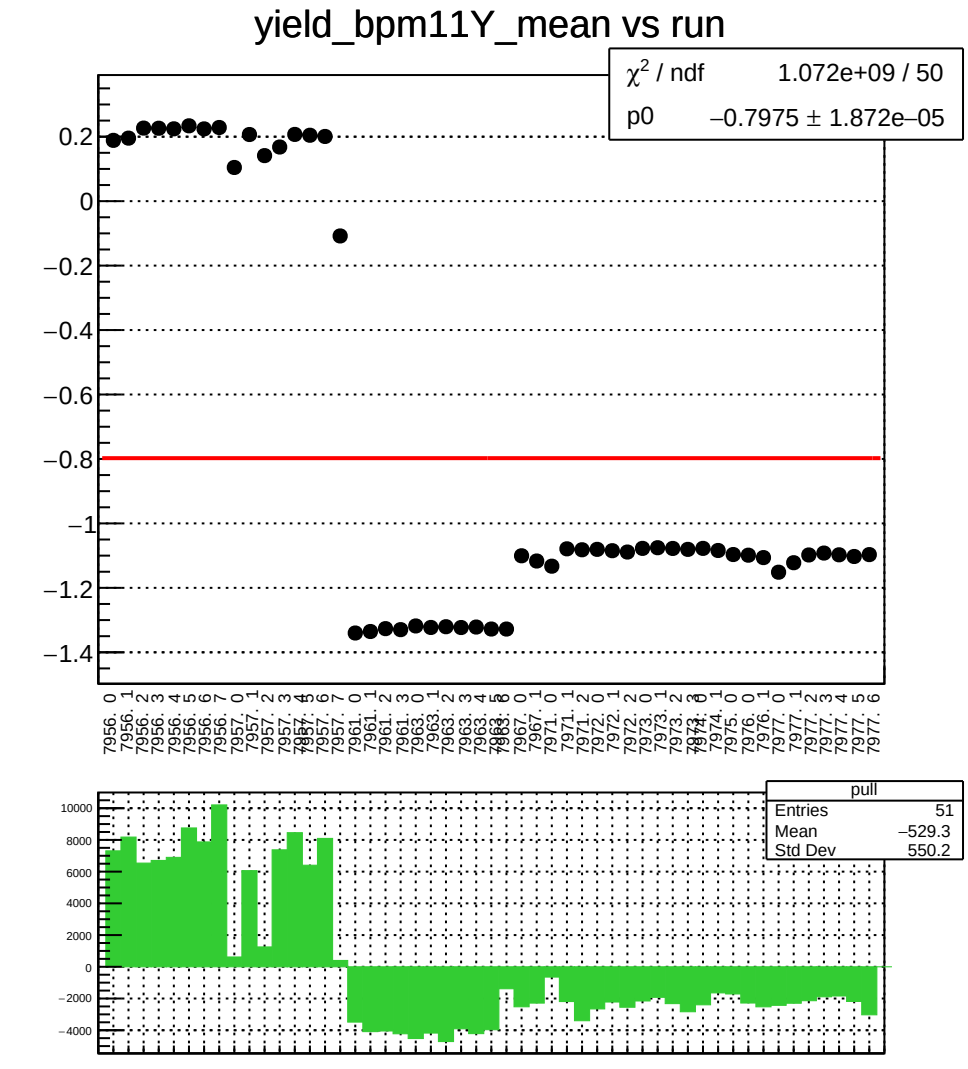
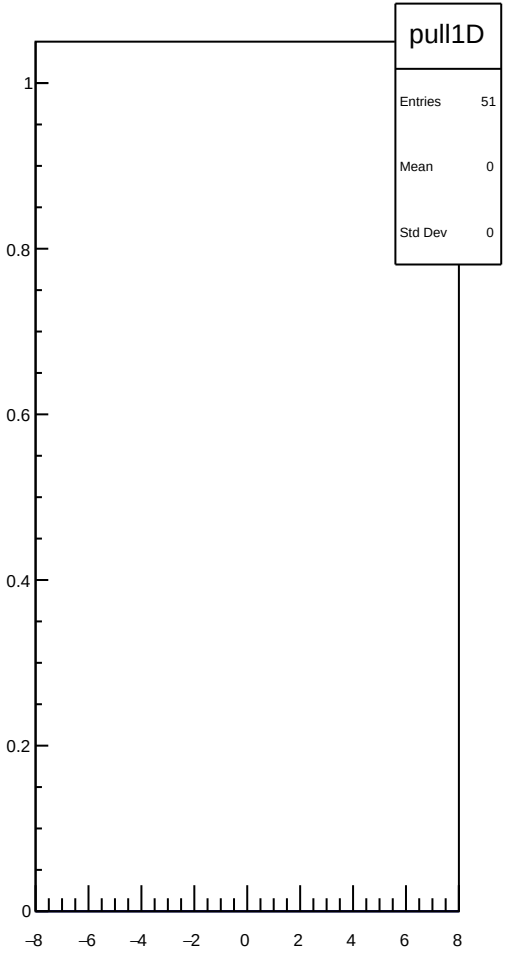
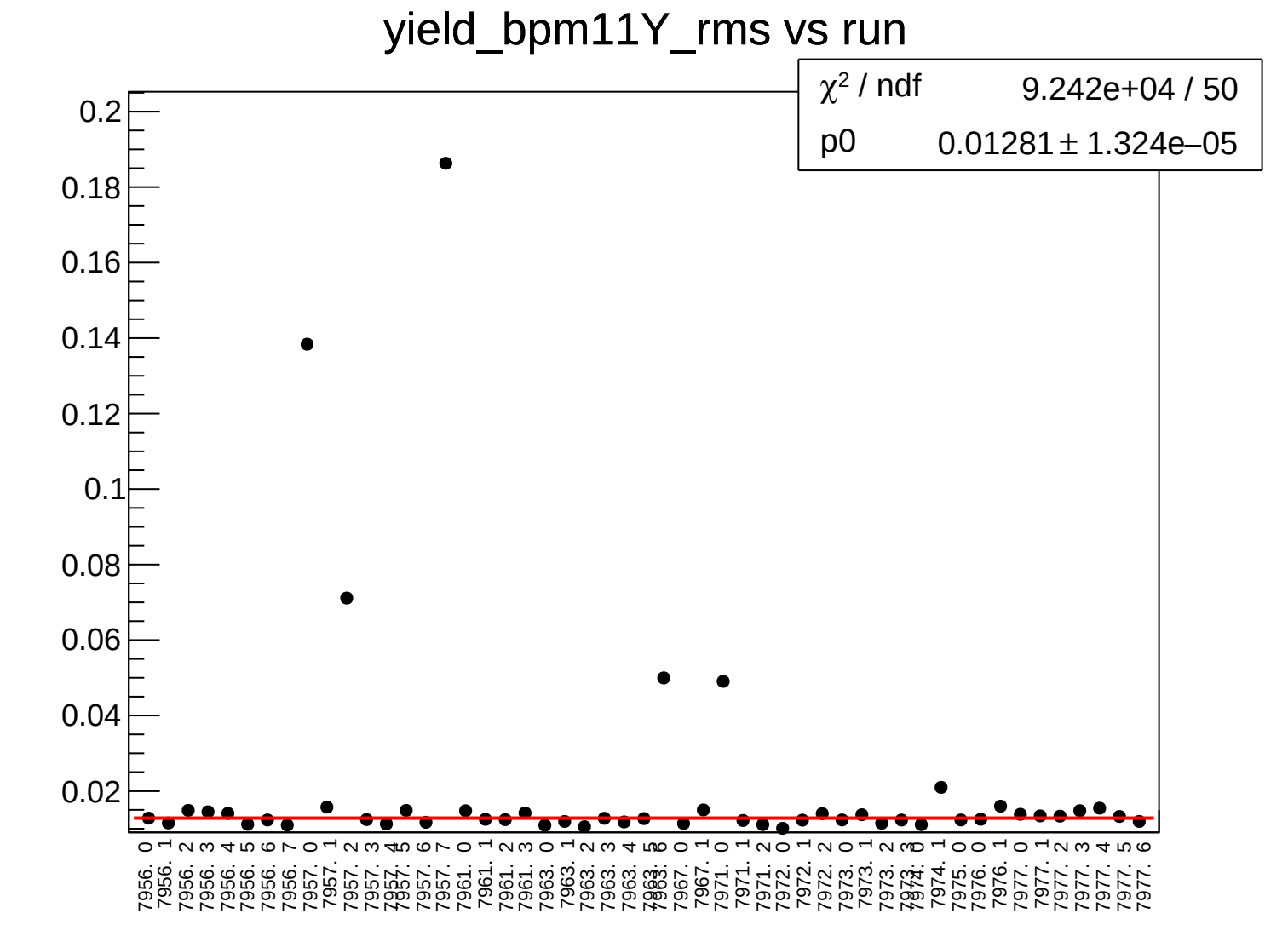
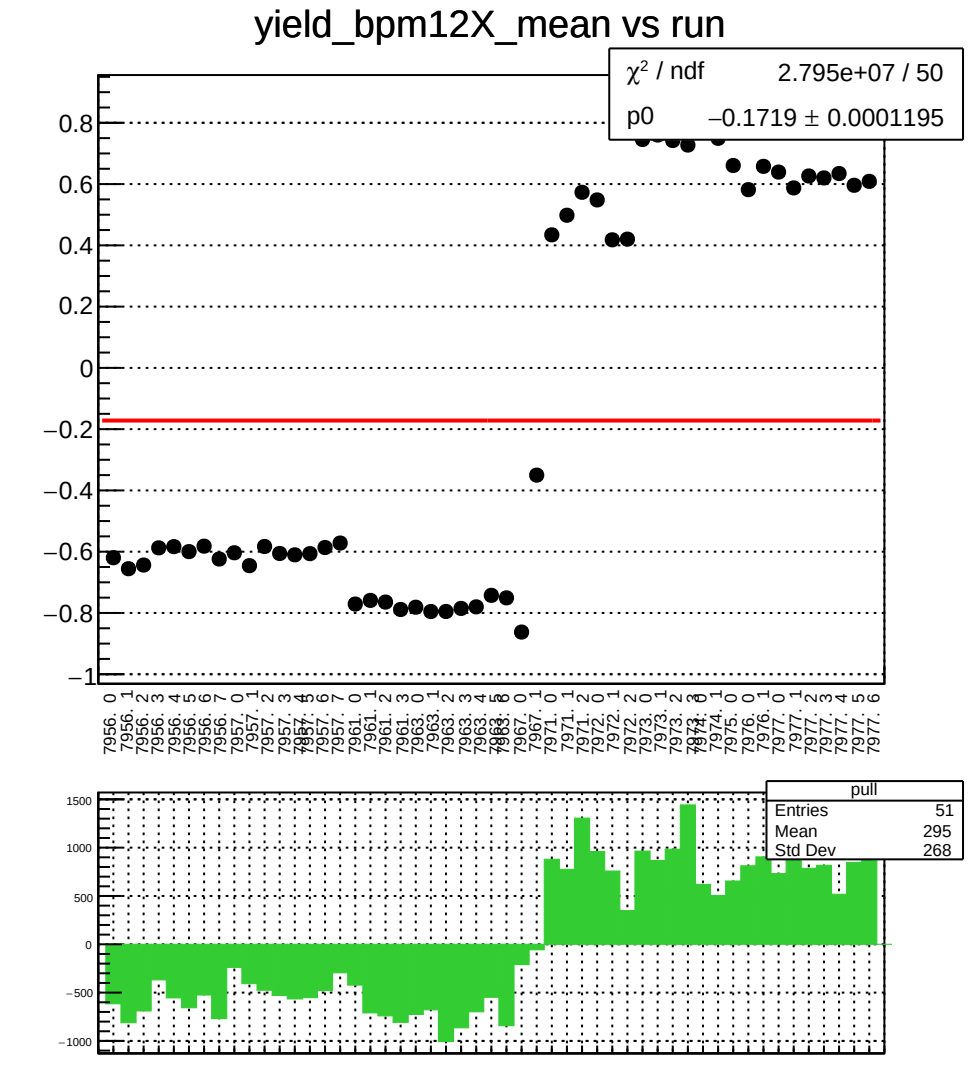
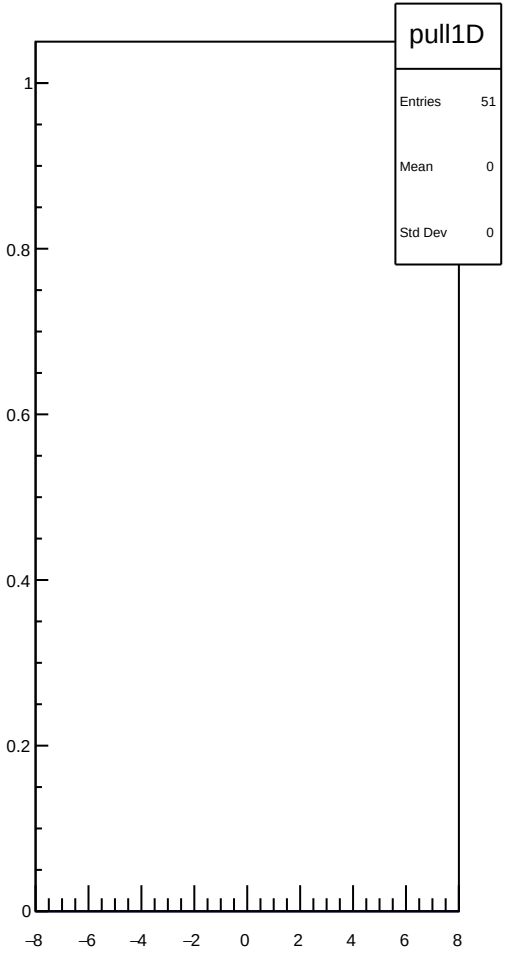
7977. 5
7977. 6

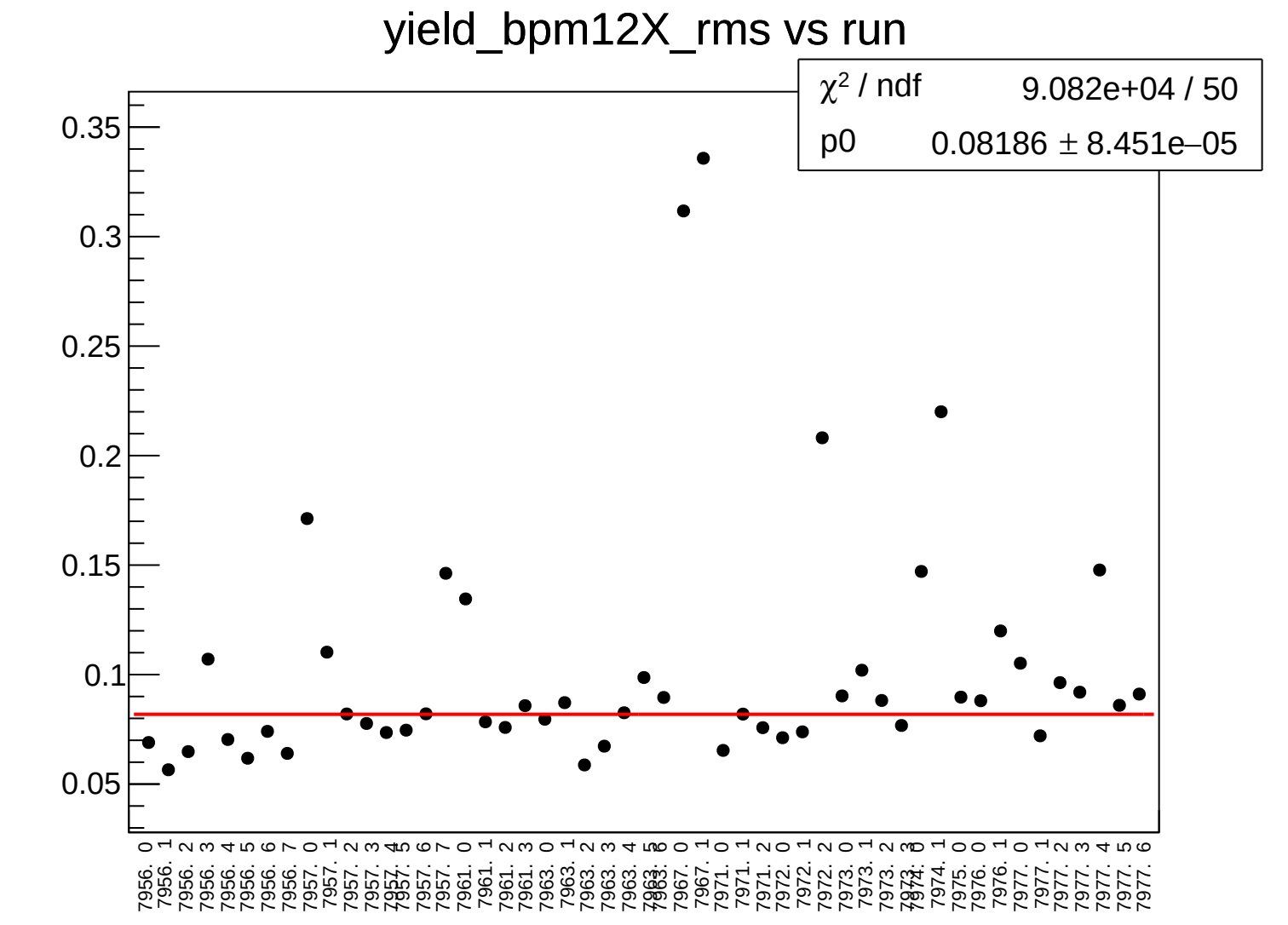

yield_bpm11Y_mean vs run
χ² / ndf 1.072e+09 / 50
p0 −0.7975 ± 1.872e−05
pull
Entries 51
Mean −529.3
Std Dev 550.2


pull1D
Entries 51
Mean 0
Std Dev 0


yield_bpm11Y_rms vs run
χ^2 / ndf 9.242e+04 / 50
p0 0.01281 ± 1.324e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm12X_mean vs run
χ² / ndf 2.795e+07 / 50
p0 −0.1719 ± 0.0001195
pull
Entries 51
Mean 295
Std Dev 268


pull1D
Entries 51
Mean 0
Std Dev 0


yield_bpm12X_rms vs run
χ² / ndf 9.082e+04 / 50
p0 0.08186 ± 8.451e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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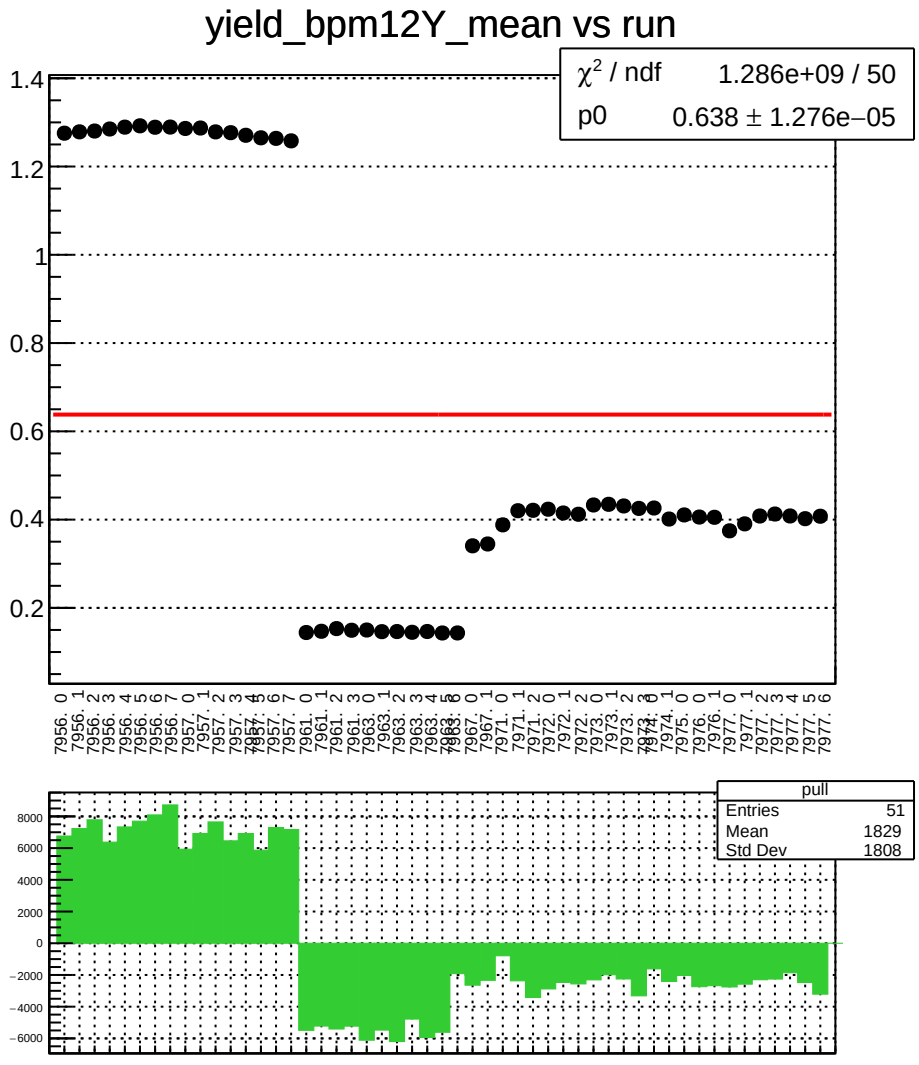
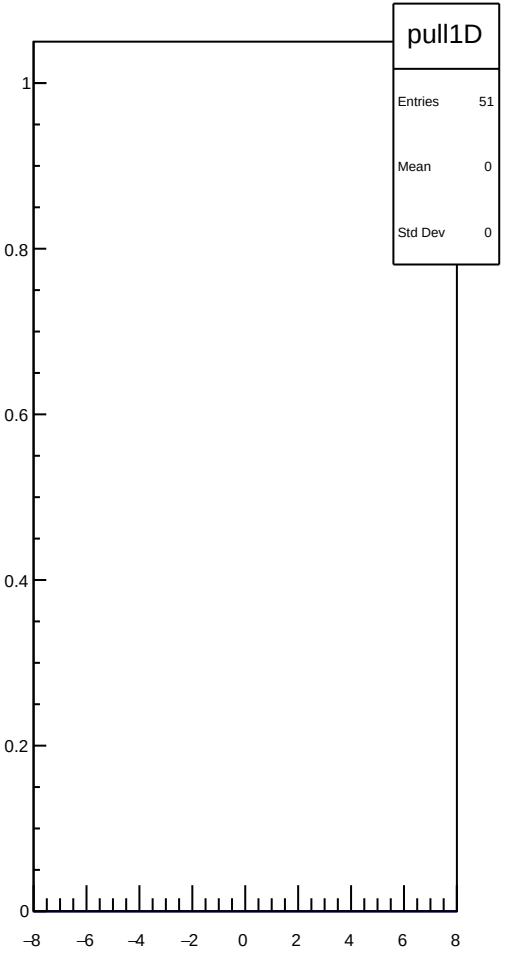
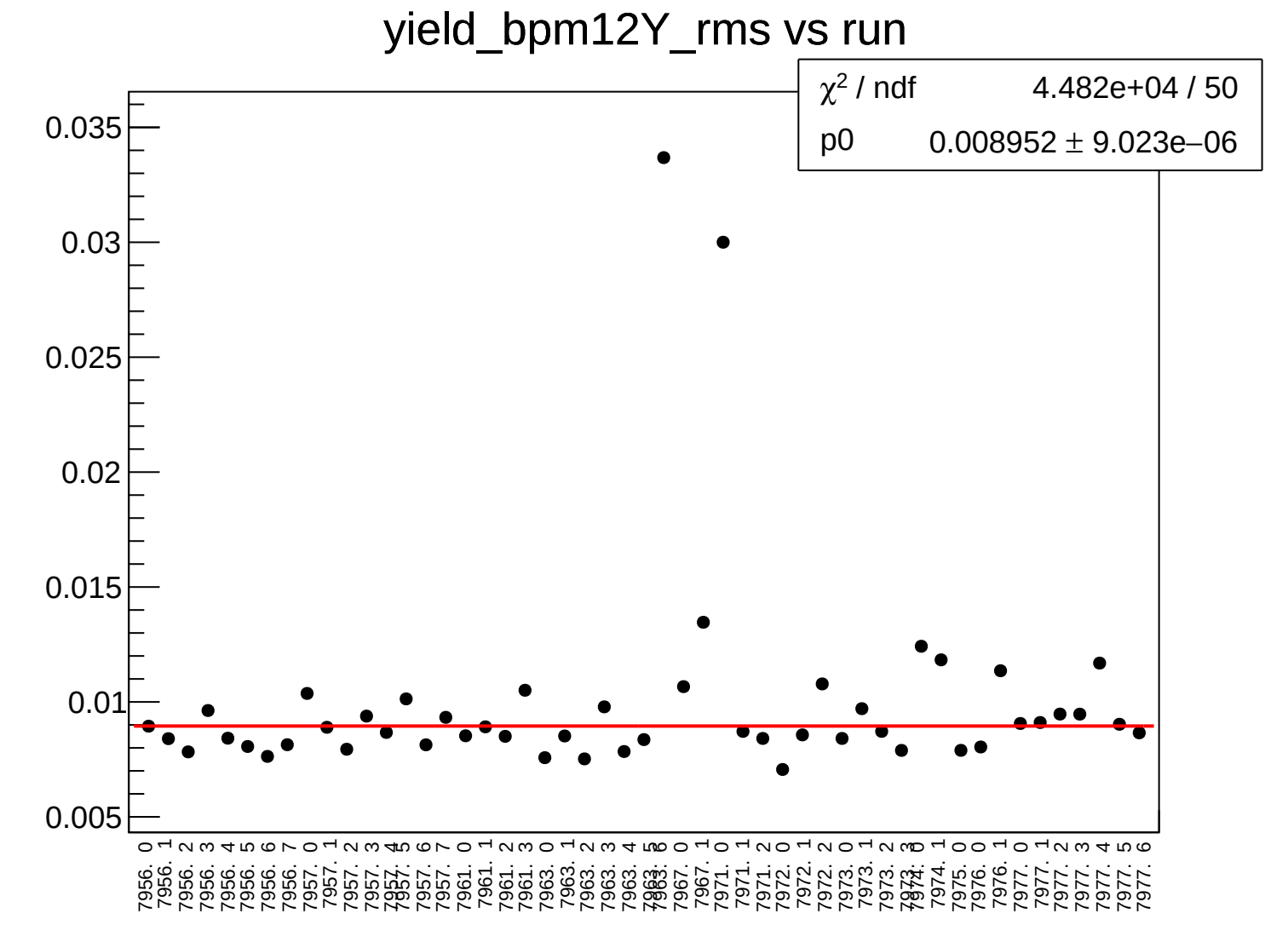
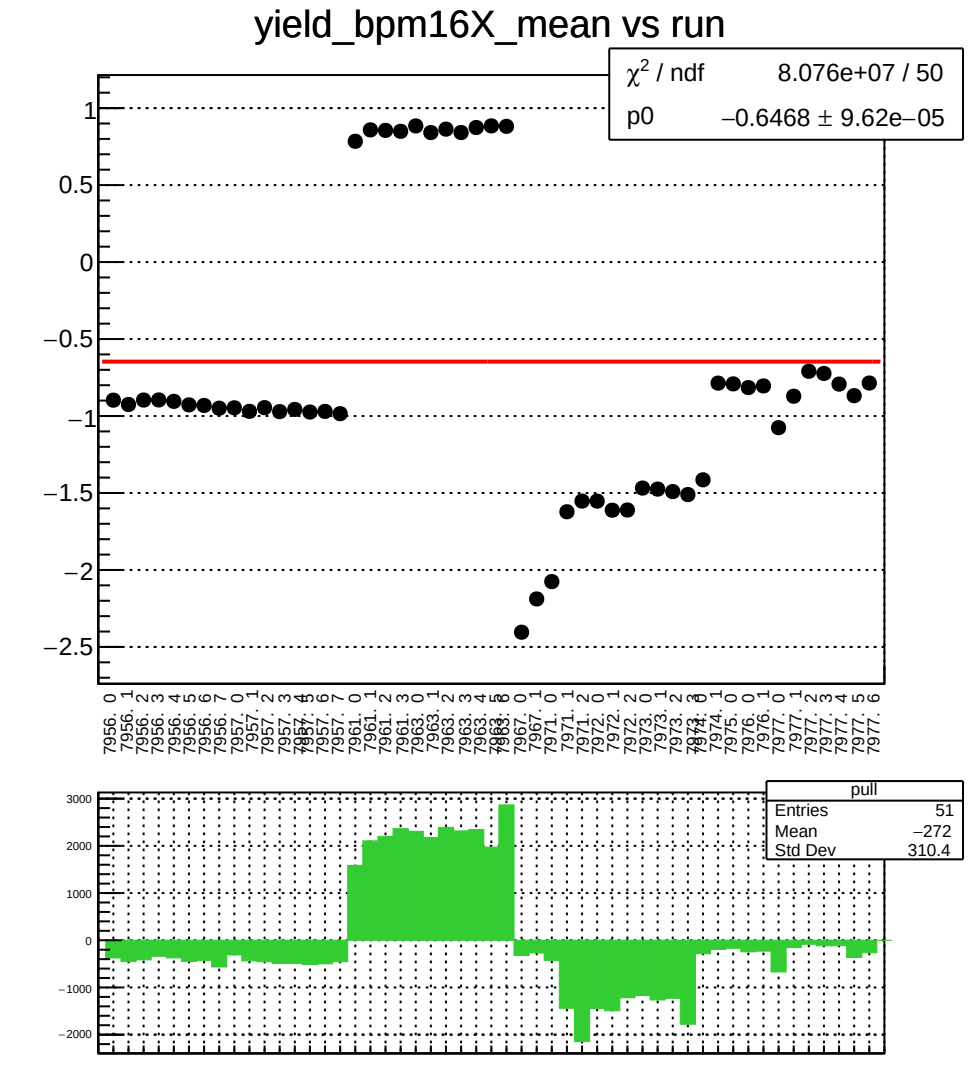
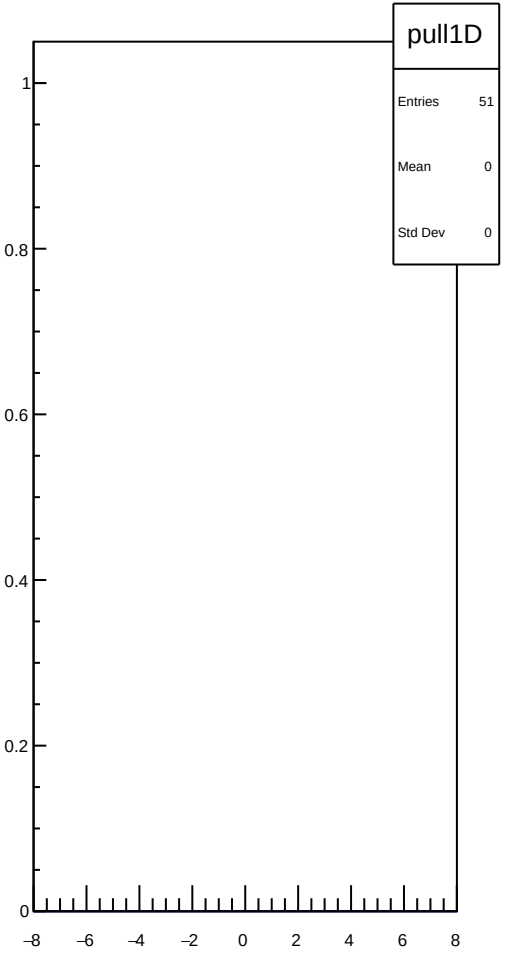
7977. 5
7977. 6

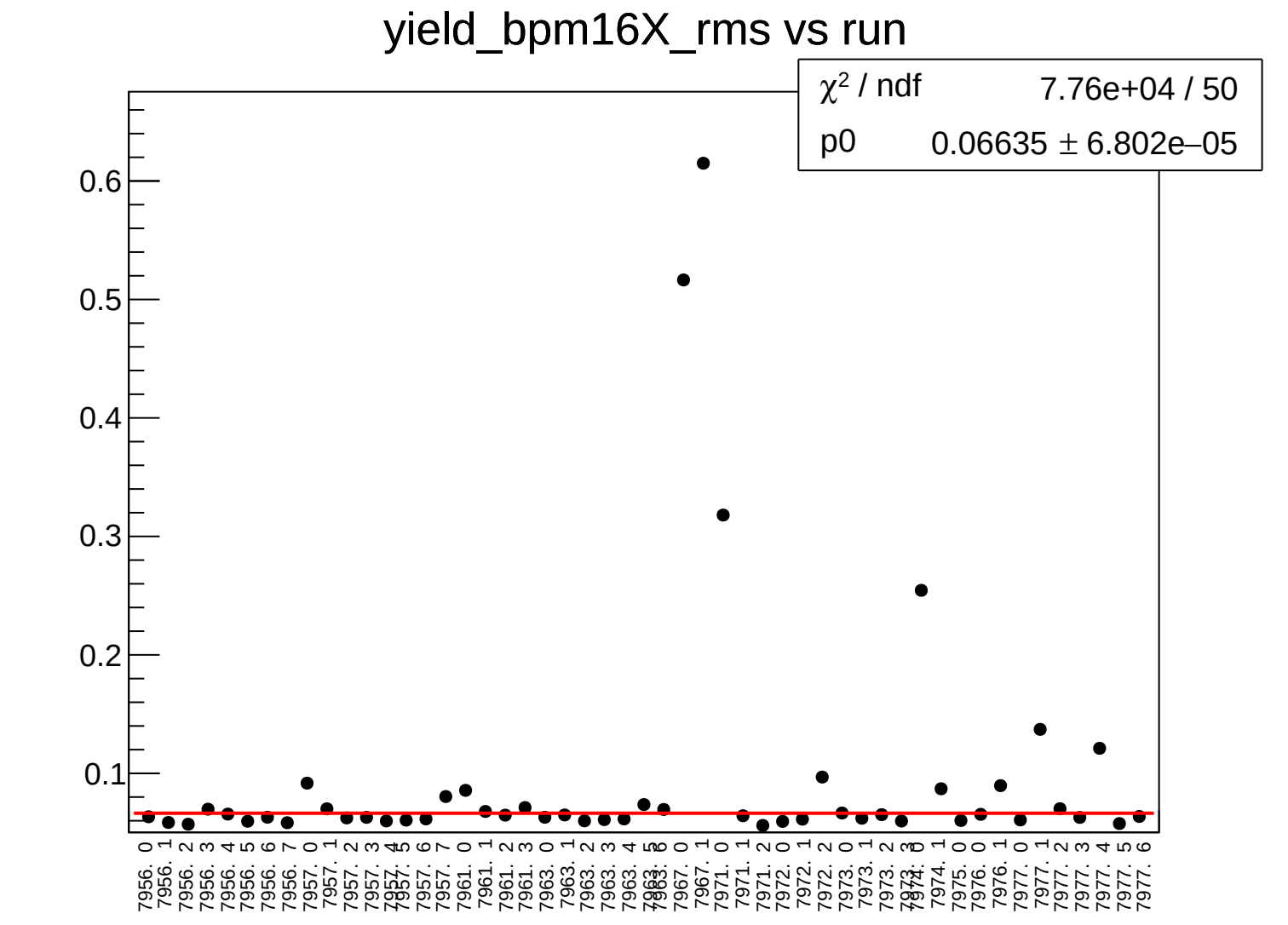

yield_bpm12Y_mean vs run
χ² / ndf 1.286e+09 / 50
p0 0.638 ± 1.276e−05
pull
Entries 51
Mean 1829
Std Dev 1808

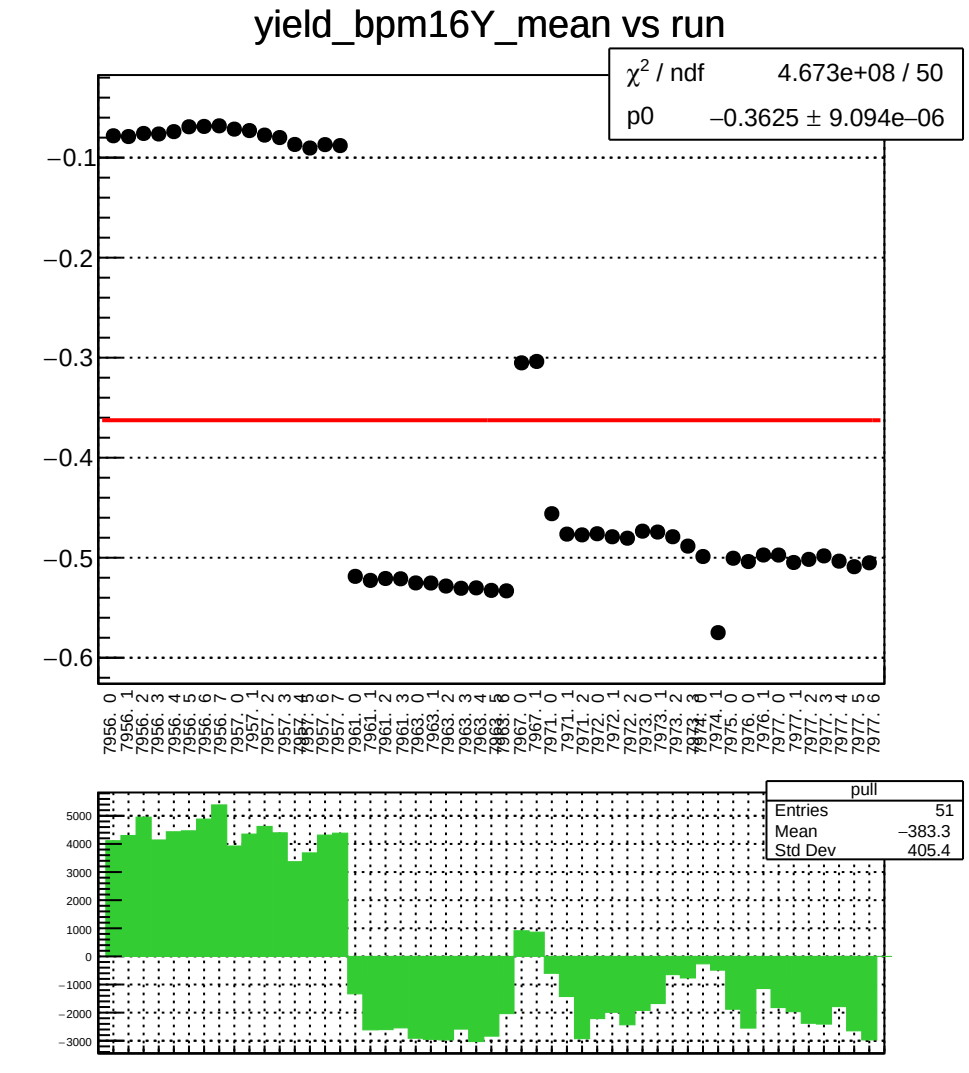

pull1D
Entries 51
Mean 0
Std Dev 0

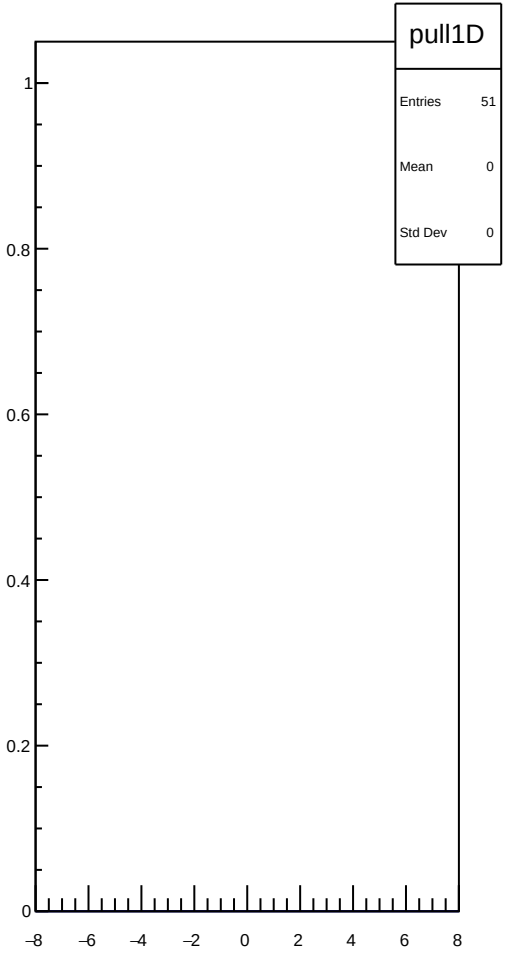

yield_bpm12Y_rms vs run
χ² / ndf 4.482e+04 / 50
p0 0.008952 ± 9.023e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

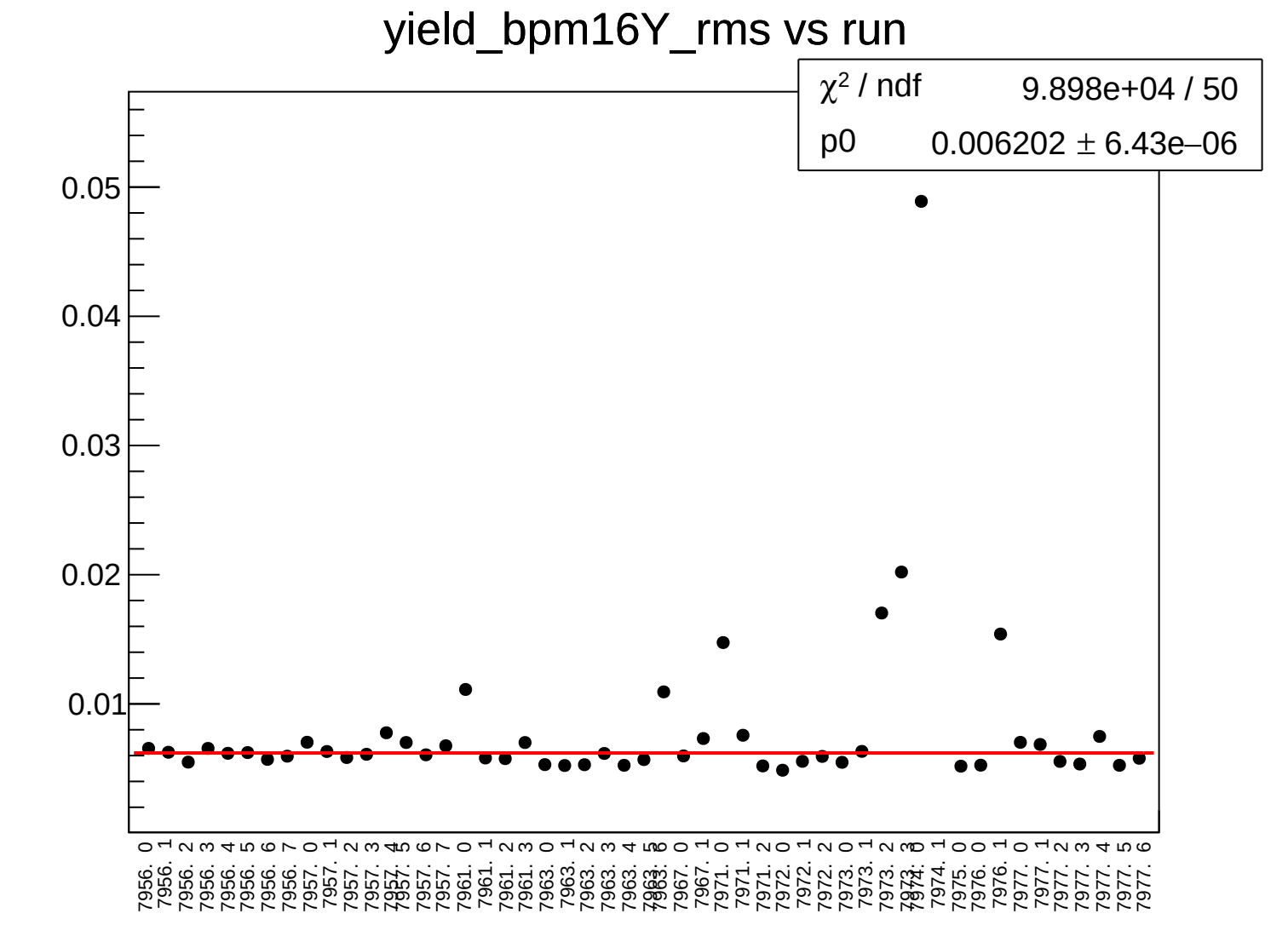

yield_bpm16X_mean vs run
χ² / ndf 8.076e+07 / 50
p0 −0.6468 ± 9.62e−05
pull
Entries 51
Mean −272
Std Dev 310.4

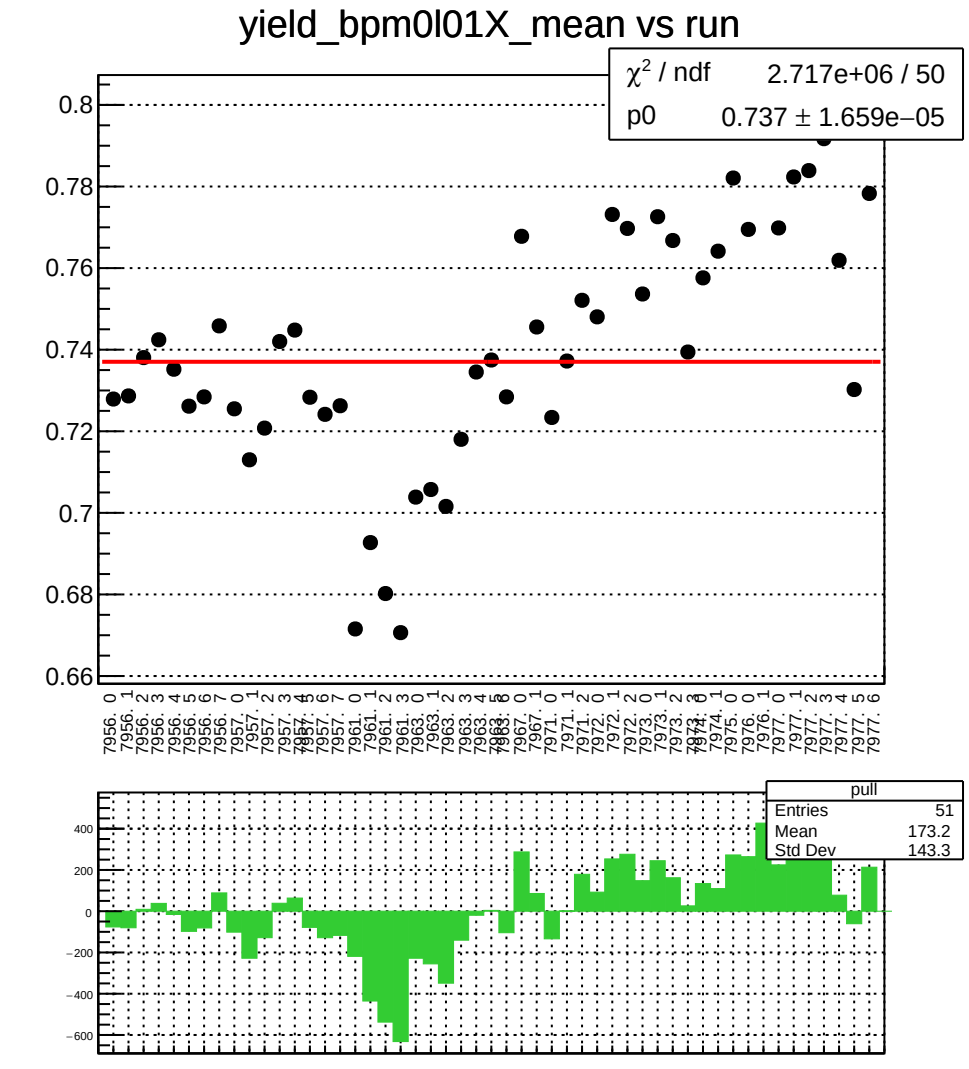

pull1D
Entries 51
Mean 0
Std Dev 0

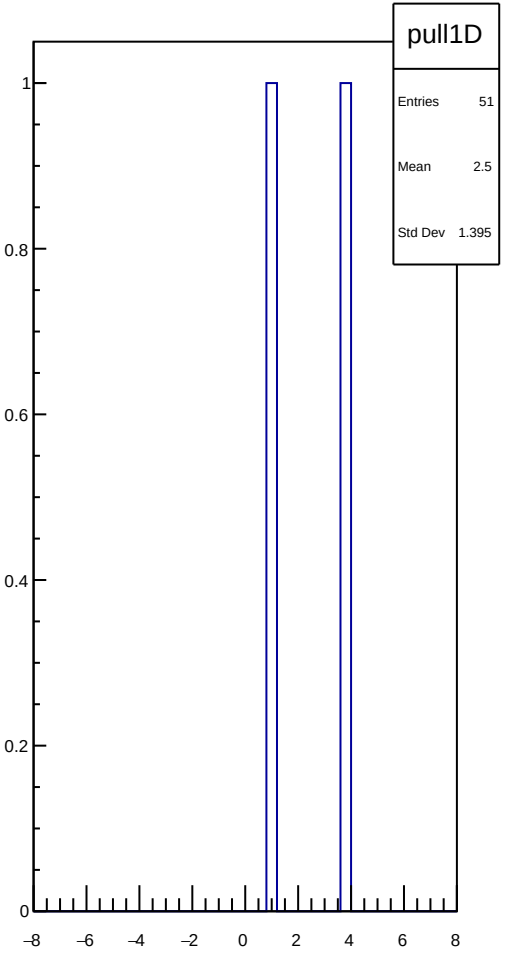

yield_bpm16X_rms vs run
χ² / ndf 7.76e+04 / 50
p0 0.06635 ± 6.802e–05
0.6
0.5
0.4
0.3
0.2
0.1

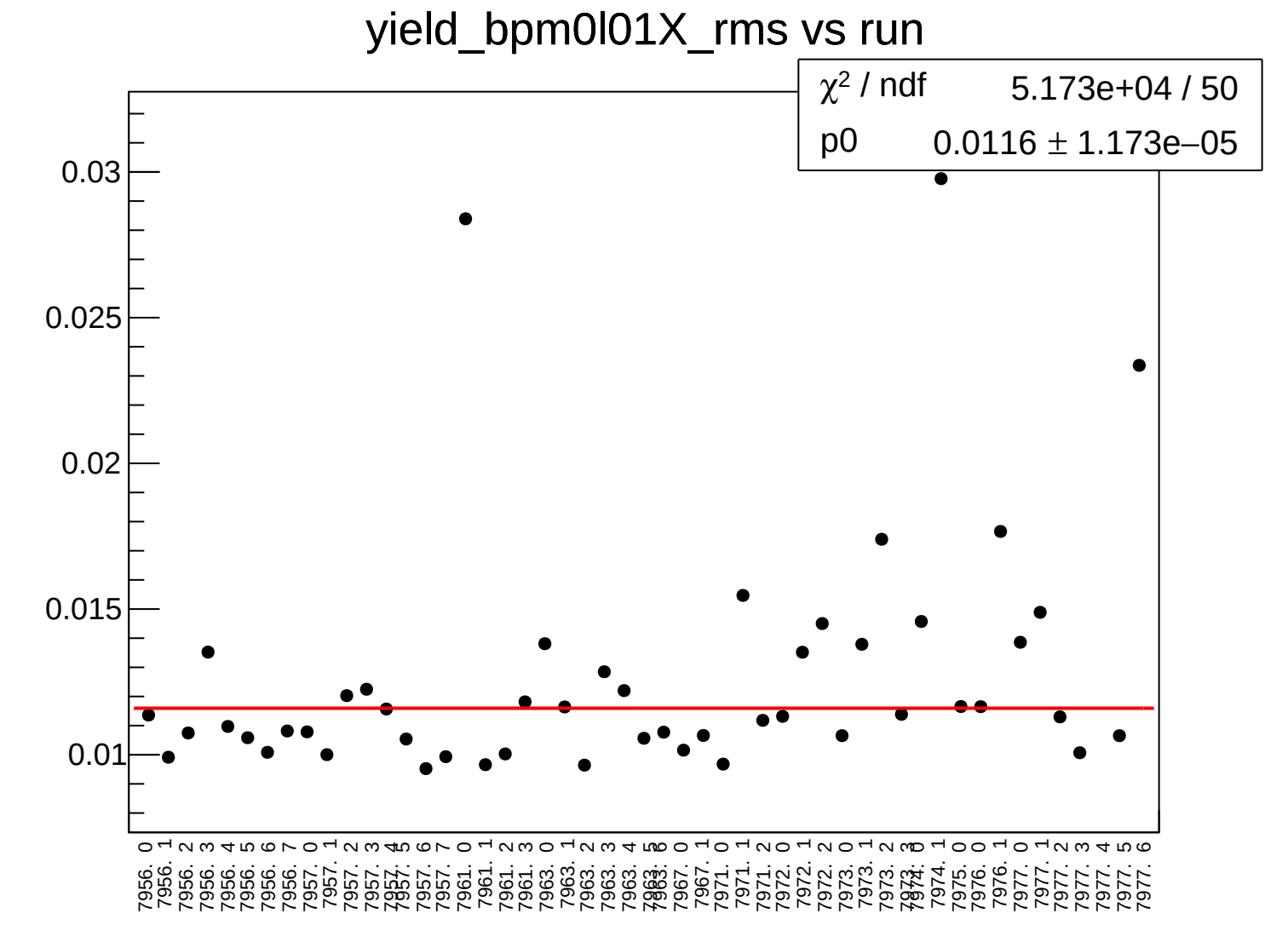

yield_bpm16Y_mean vs run
χ² / ndf 4.673e+08 / 50
p0 −0.3625 ± 9.094e−06
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 51
Mean −383.3
Std Dev 405.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

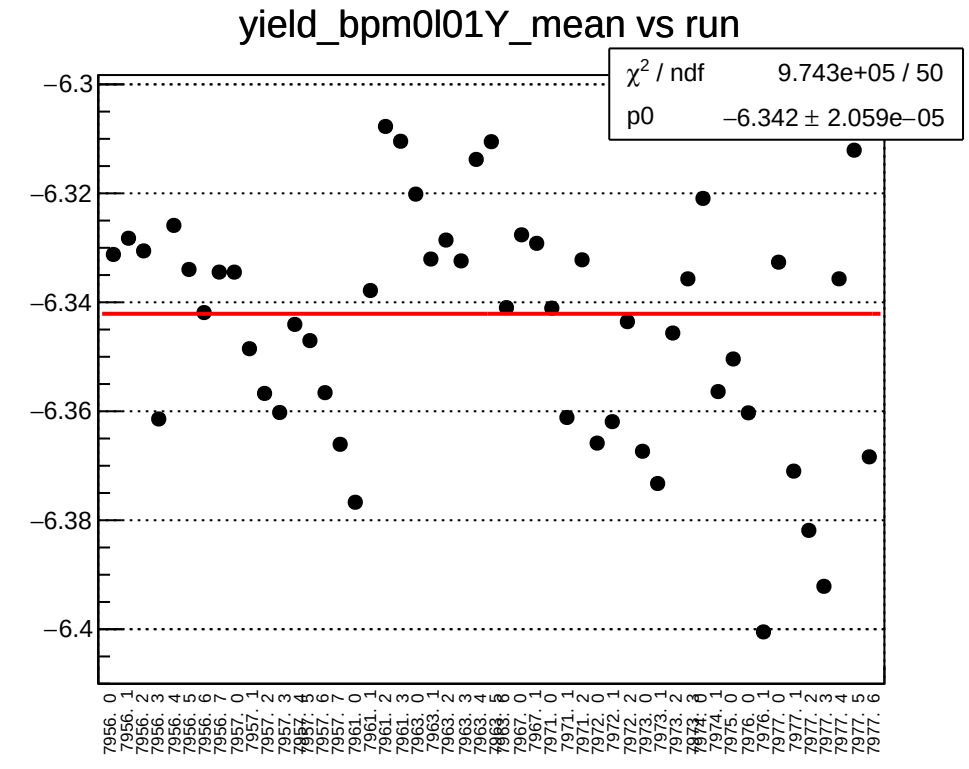

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

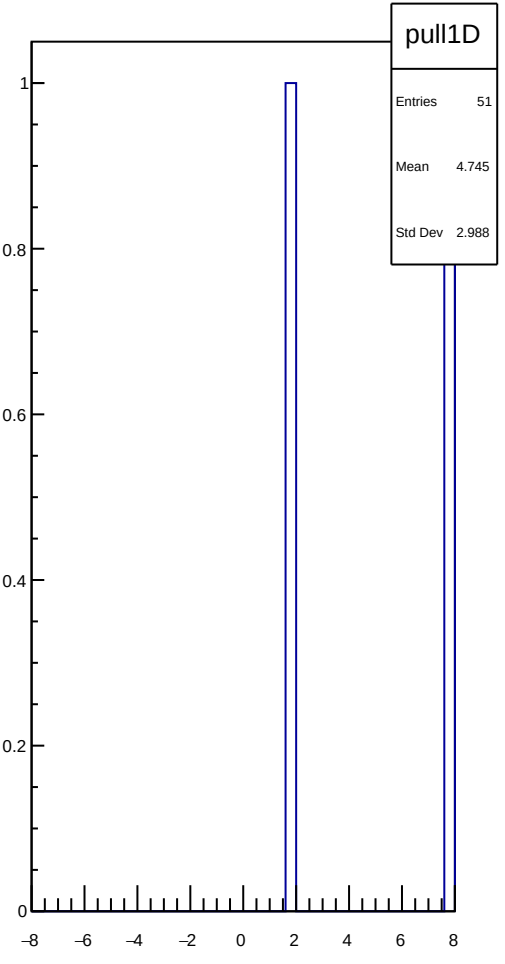

yield_bpm16Y_rms vs run
χ² / ndf 9.898e+04 / 50
p0 0.006202 ± 6.43e−06
0.05
0.04
0.03
0.02
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

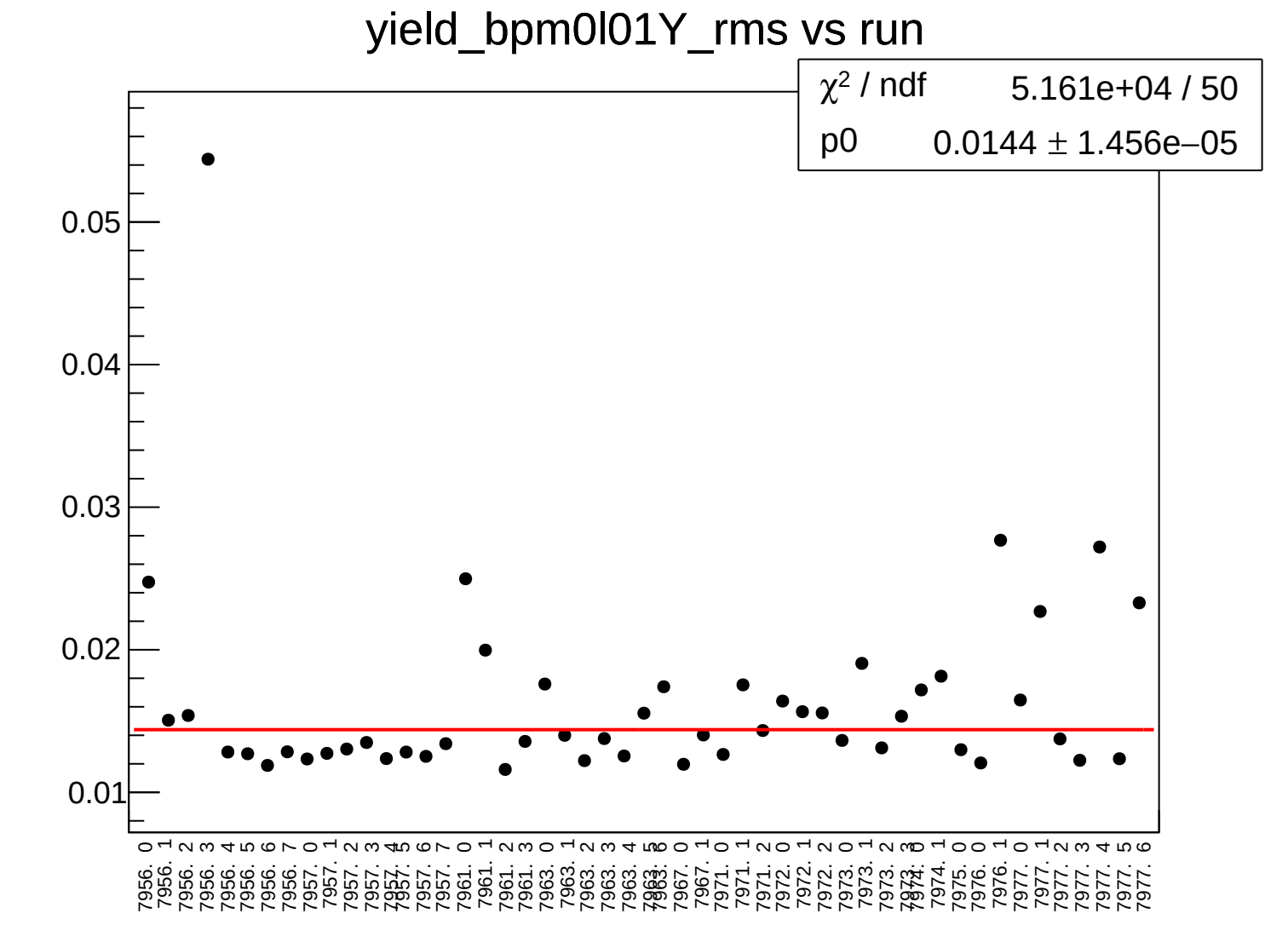

yield_bpm0l01X_mean vs run
χ² / ndf 2.717e+06 / 50
p0 0.737 ± 1.659e−05
pull
Entries 51
Mean 173.2
Std Dev 143.3

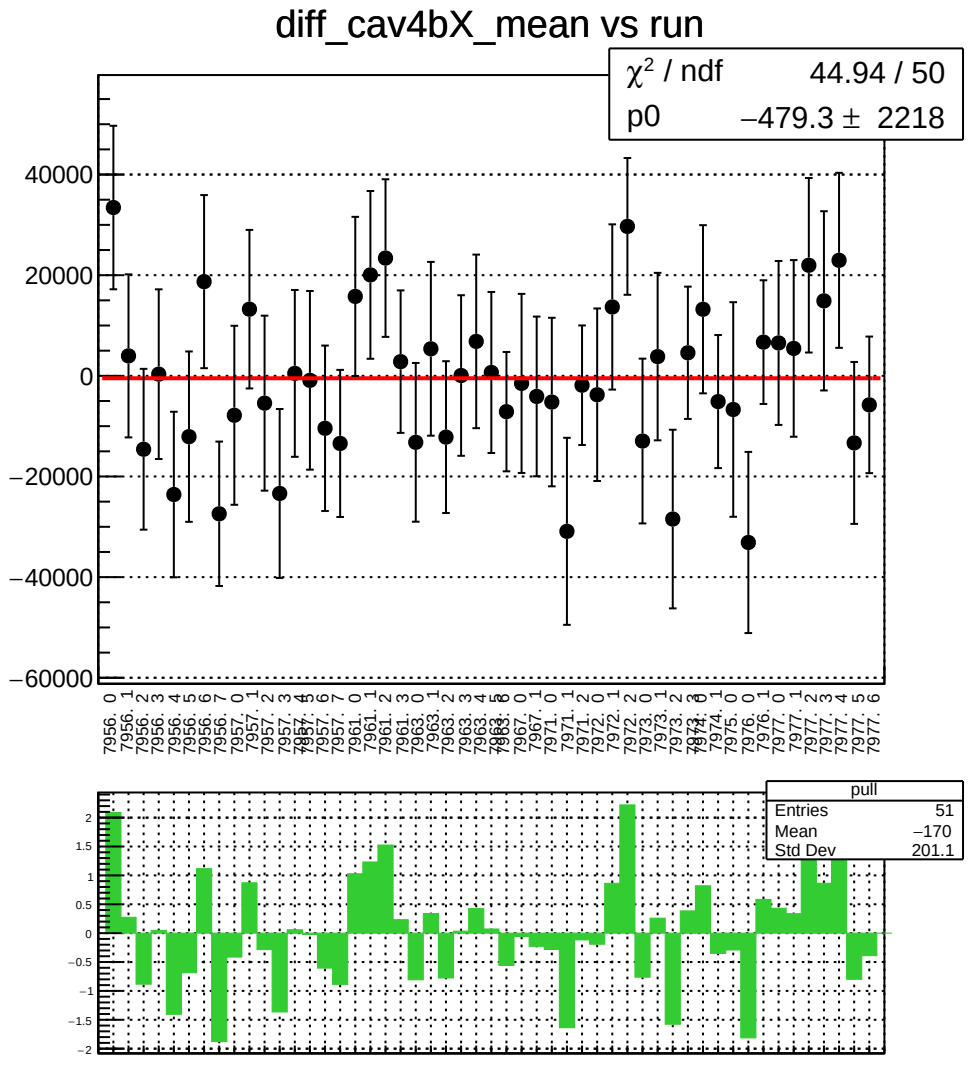

pull1D
Entries 51
Mean 2.5
Std Dev 1.395

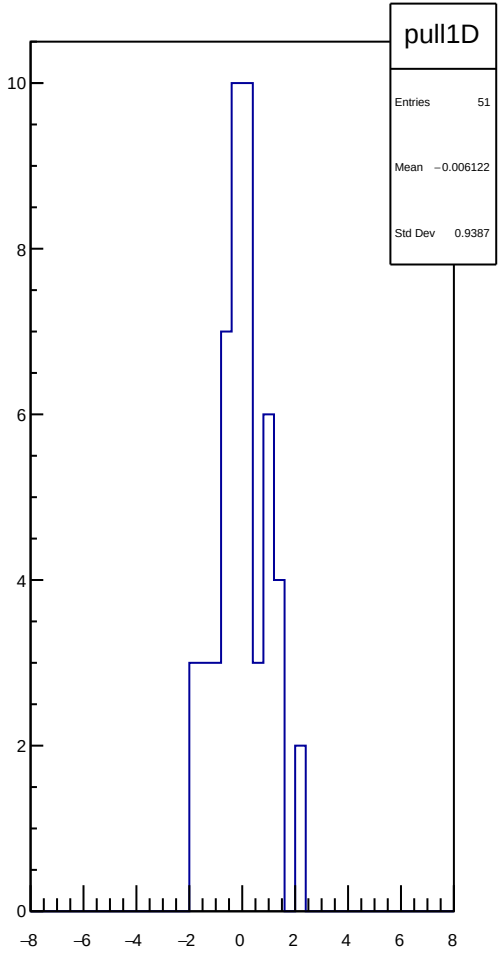

yield_bpm0l01X_rms vs run
χ² / ndf 5.173e+04 / 50
p0 0.0116 ± 1.173e−05
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

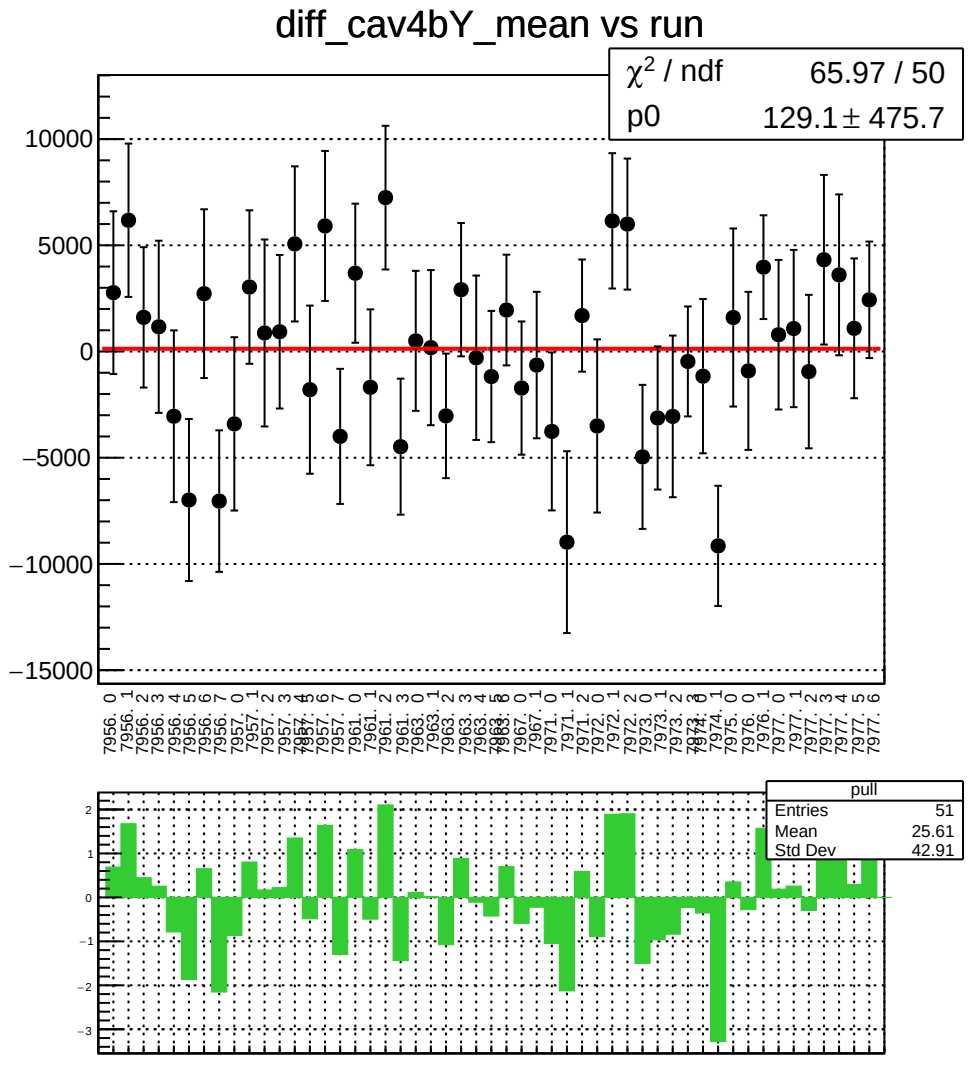

yield_bpm0l01Y_mean vs run
χ² / ndf 9.743e+05 / 50
p0 −6.342 ± 2.059e−05
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
pull
Entries 51
Mean 110.1
Std Dev 79.14
300
200
100
0
−100
−200
−300
−400

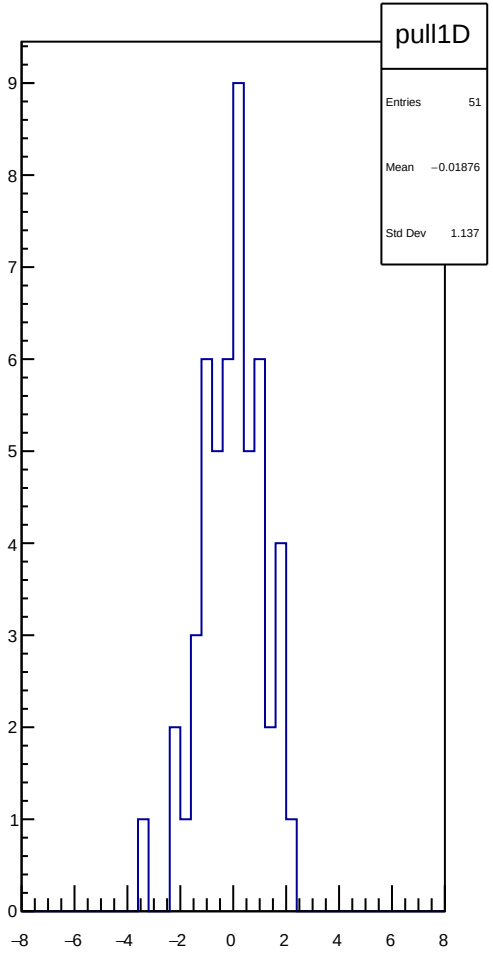

pull1D
Entries 51
Mean 4.745
Std Dev 2.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

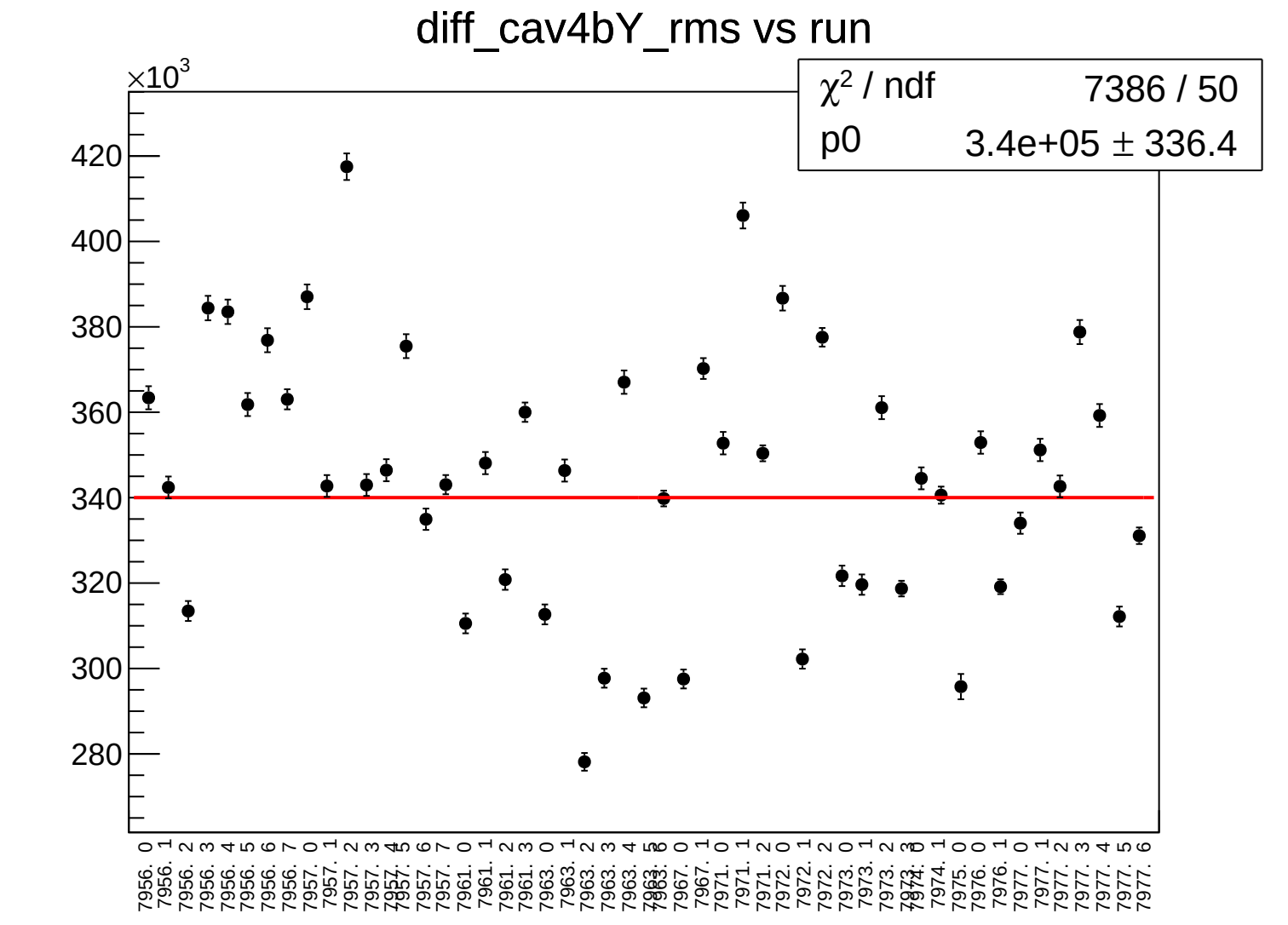

yield_bpm0l01Y_rms vs run
χ² / ndf 5.161e+04 / 50
p0 0.0144 ± 1.456e−05
0.05
0.04
0.03
0.02
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

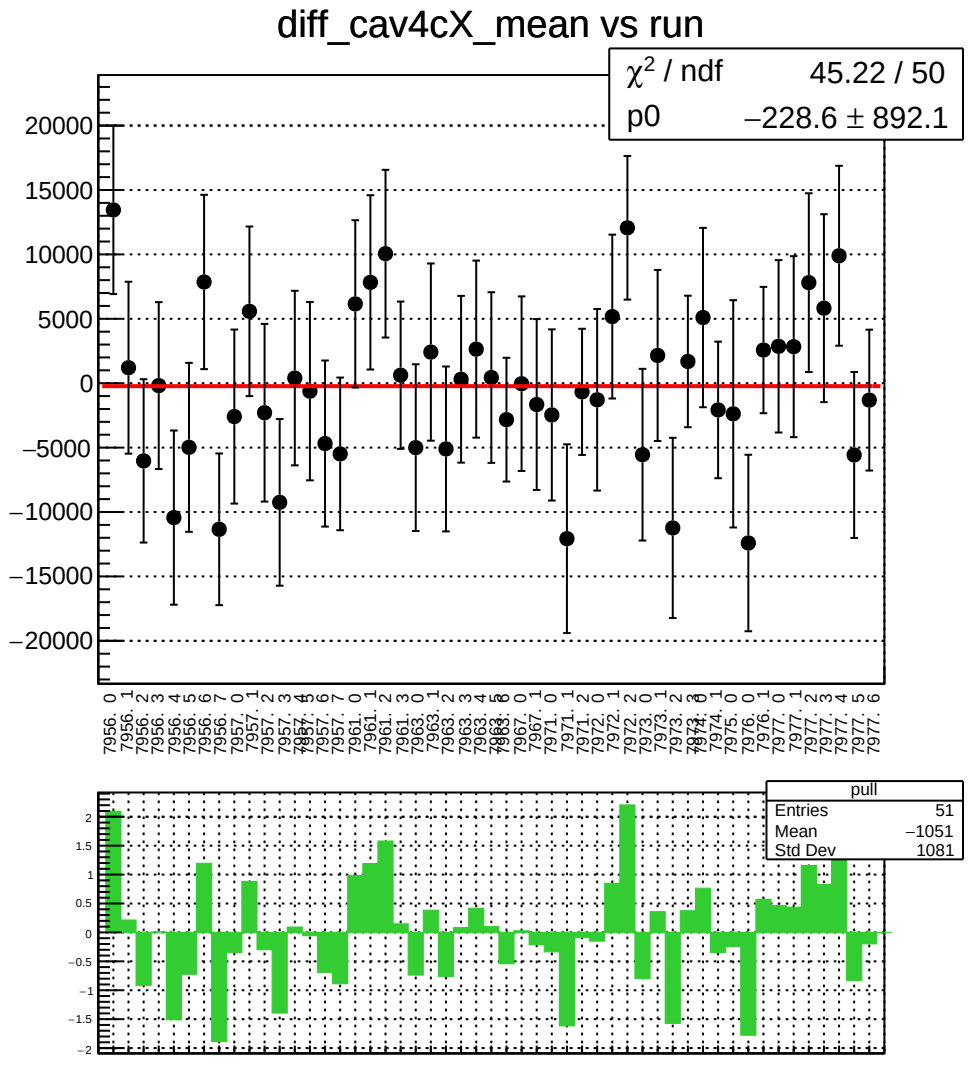

diff_cav4bX_mean vs run
χ² / ndf 44.94 / 50
p0 −479.3 ± 2218
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −170
Std Dev 201.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

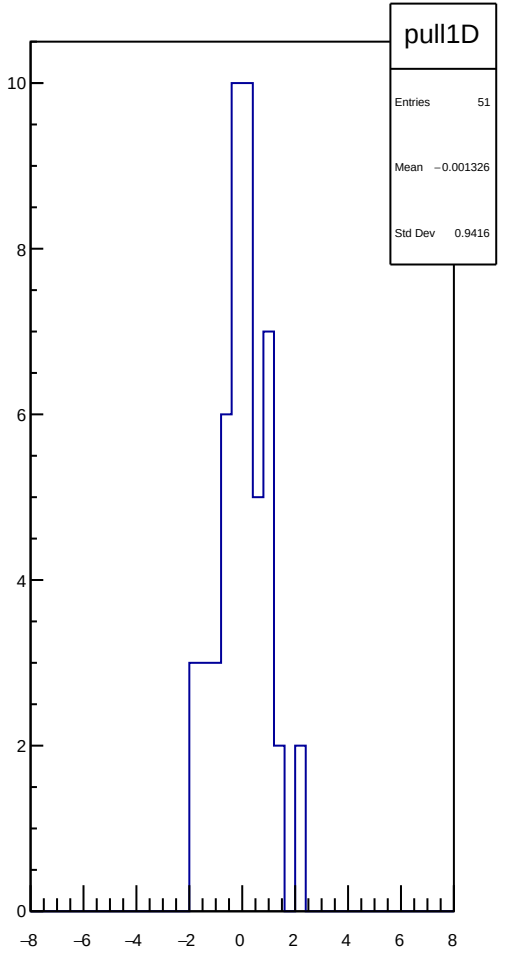

pull1D
Entries 51
Mean −0.006122
Std Dev 0.9387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

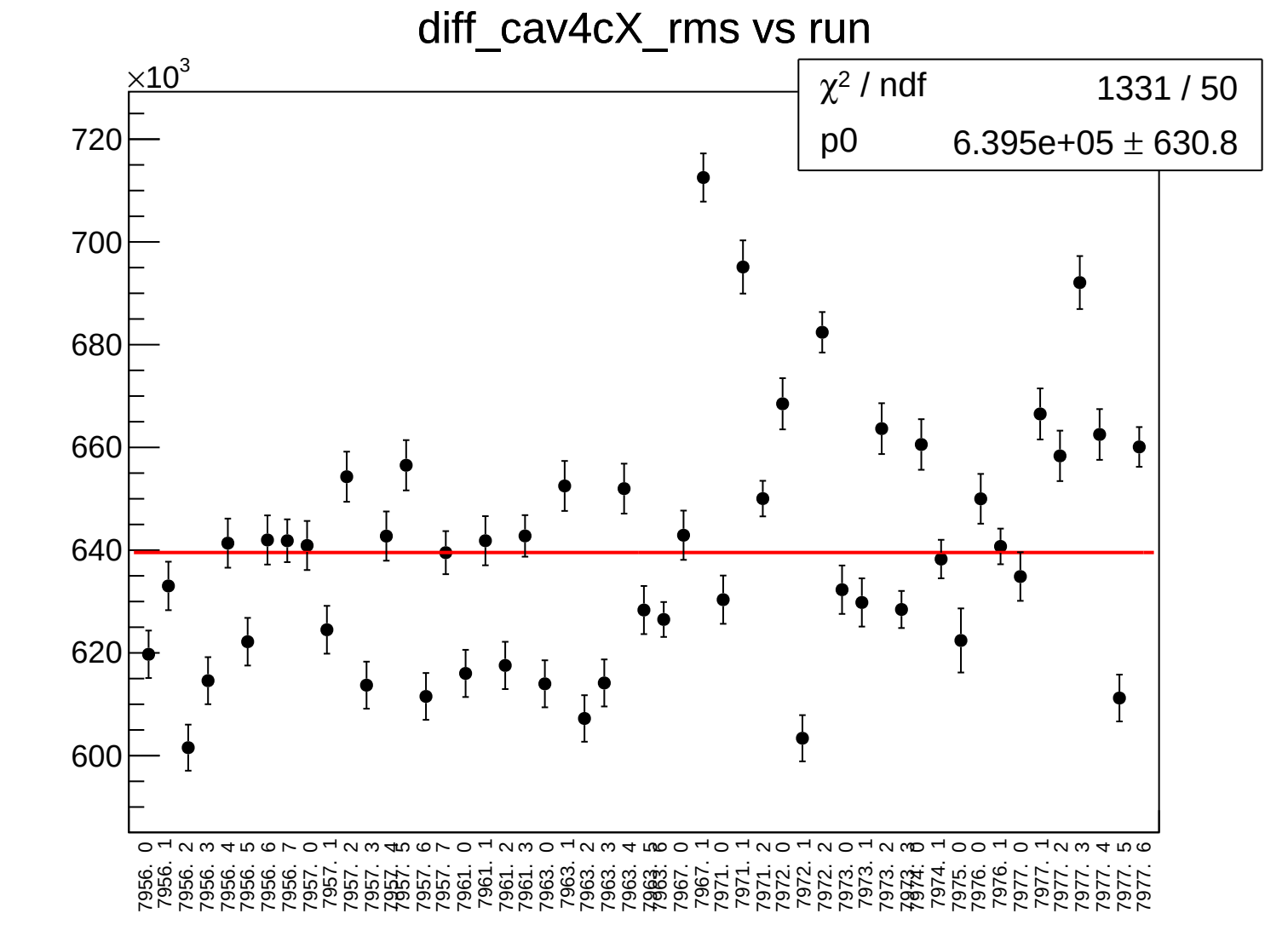

diff_cav4bY_mean vs run
χ^2 / ndf 65.97 / 50
p0 129.1 ± 475.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 25.61
Std Dev 42.91
2
1
0
−1
−2
−3

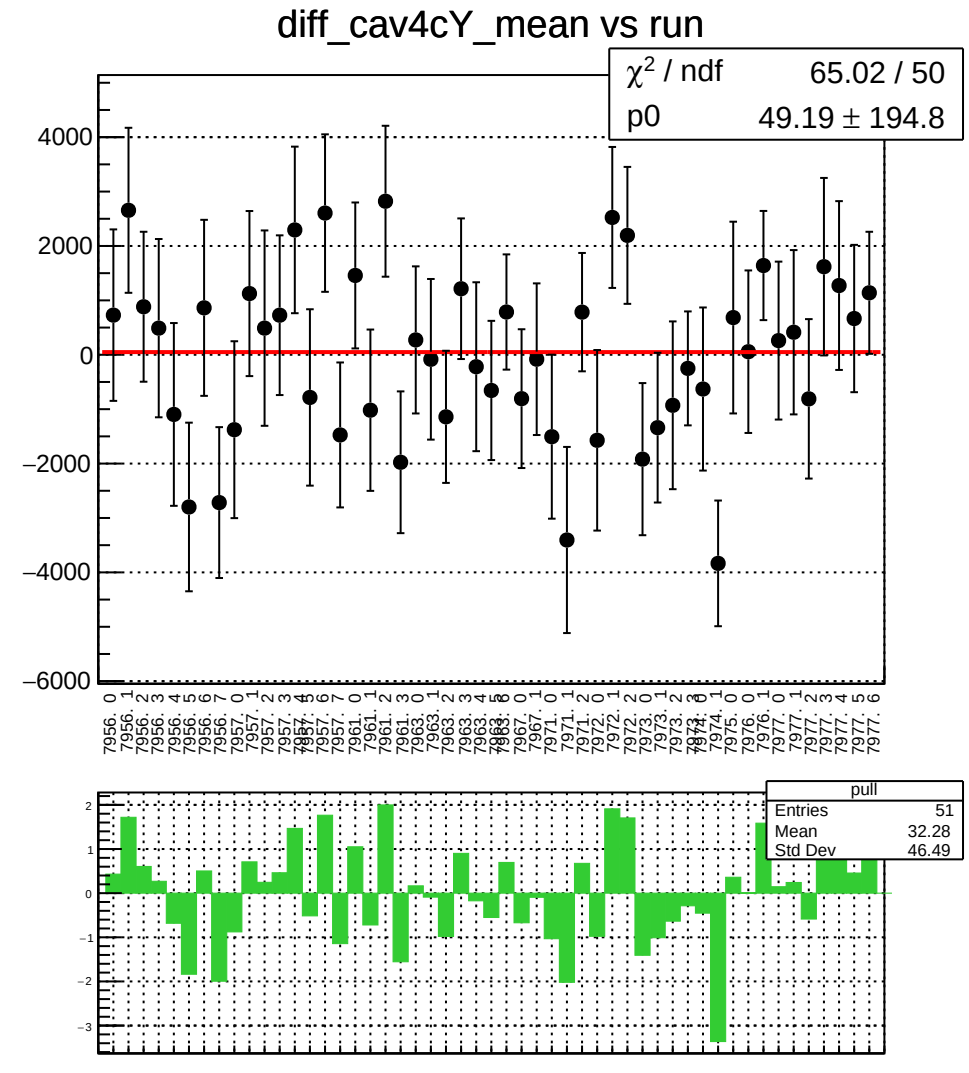

pull1D
Entries 51
Mean −0.01876
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

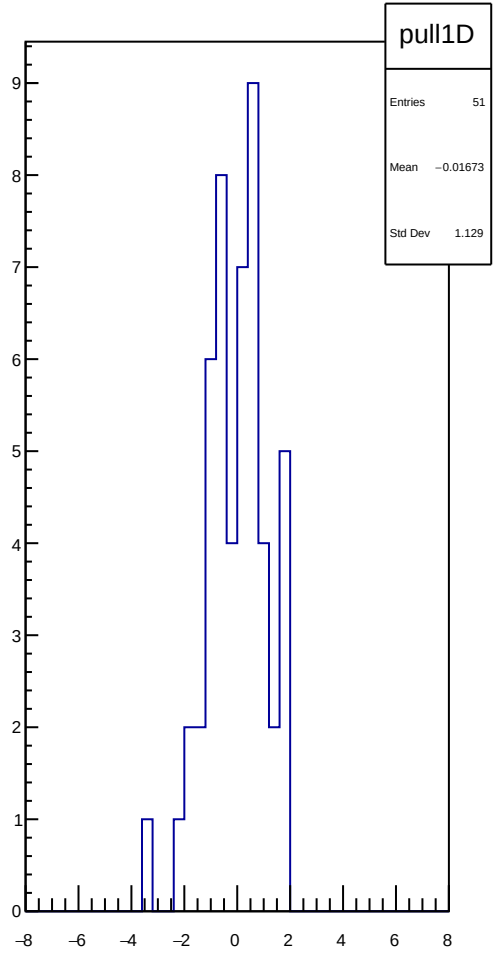

diff_cav4bY_rms vs run
×10^3
χ² / ndf 7386 / 50
p0 3.4e+05 ± 336.4
420
400
380
360
340
320
300
280
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

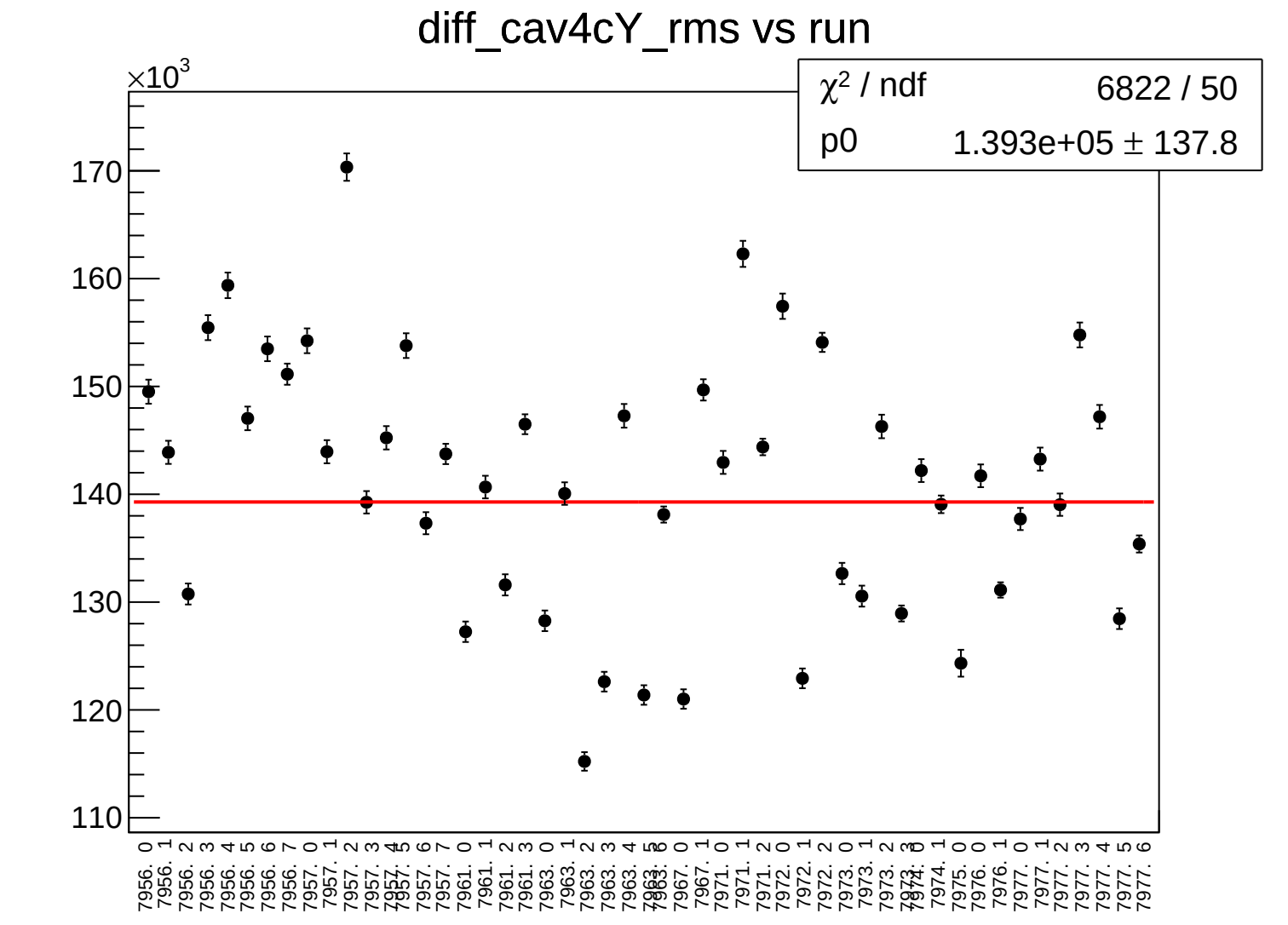

diff_cav4cX_mean vs run
χ² / ndf 45.22 / 50
p0 −228.6 ± 892.1
pull
Entries 51
Mean −1051
Std Dev 1081


pull1D
Entries 51
Mean −0.001326
Std Dev 0.9416


diff_cav4cX_rms vs run
×10^3
720
700
680
660
640
620
600
χ² / ndf 1331 / 50
p0 6.395e+05 ± 630.8
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_cav4cY_mean vs run
χ² / ndf 65.02 / 50
p0 49.19 ± 194.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 32.28
Std Dev 46.49
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.01673
Std Dev 1.129
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4cY_rms vs run
×10^3
χ² / ndf 6822 / 50
p0 1.393e+05 ± 137.8
170
160
150
140
130
120
110
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
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7977. 0
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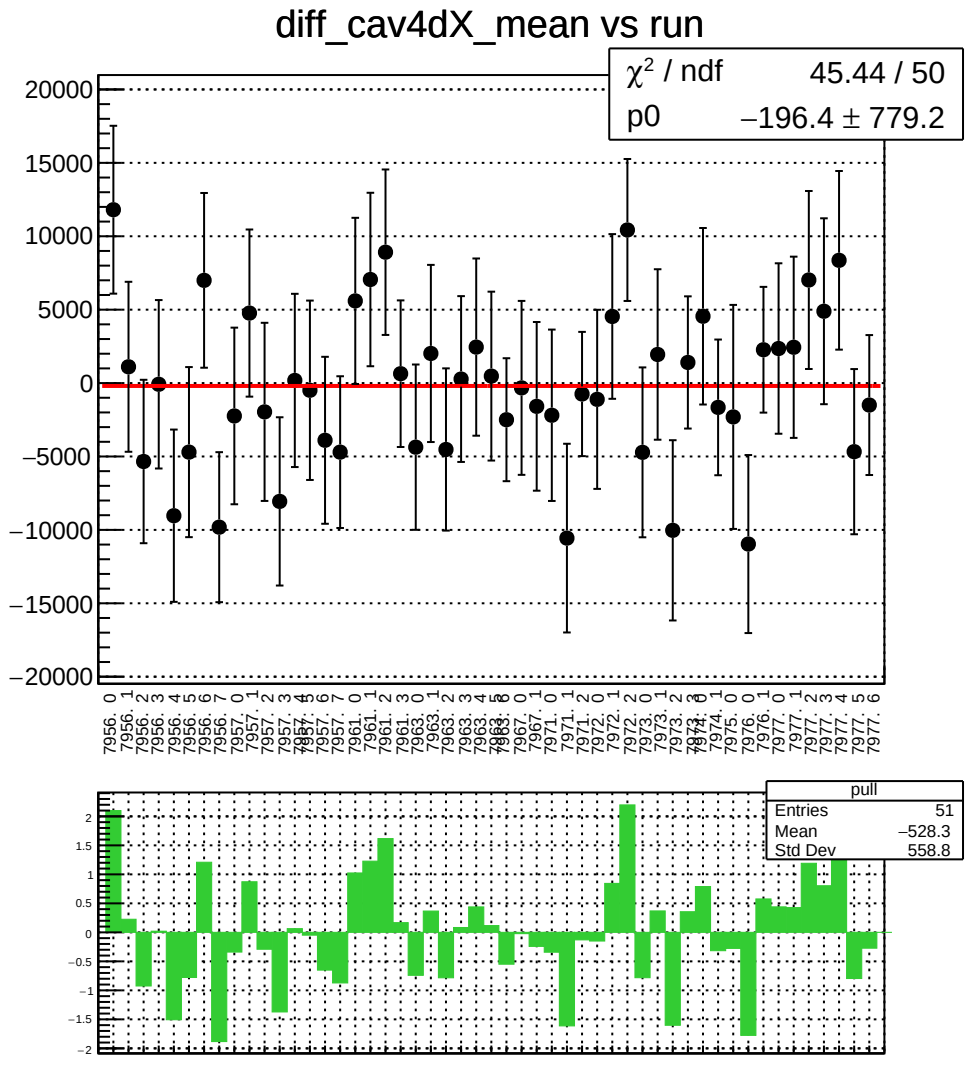
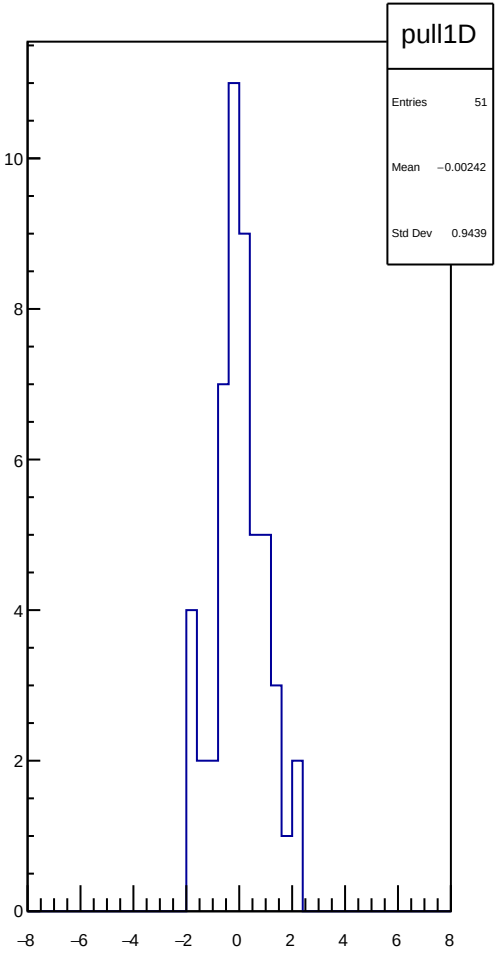
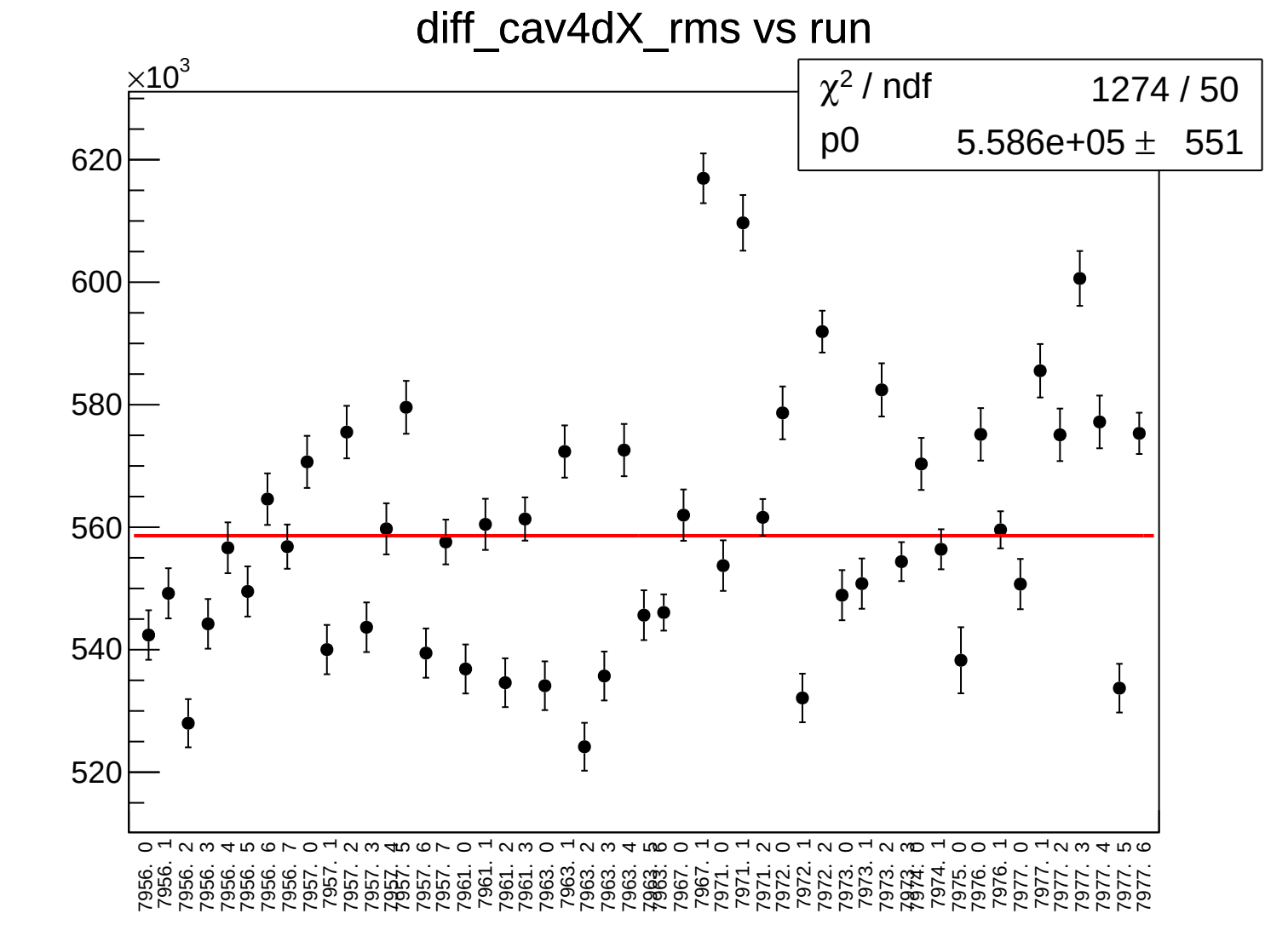
7977. 5
7977. 6


diff_cav4dX_mean vs run
χ² / ndf 45.44 / 50
p0 −196.4 ± 779.2
pull
Entries 51
Mean −528.3
Std Dev 558.8


pull1D
Entries 51
Mean −0.00242
Std Dev 0.9439


diff_cav4dX_rms vs run
×10^3
620
600
580
560
540
520
χ² / ndf 1274 / 50
p0 5.586e+05 ± 551
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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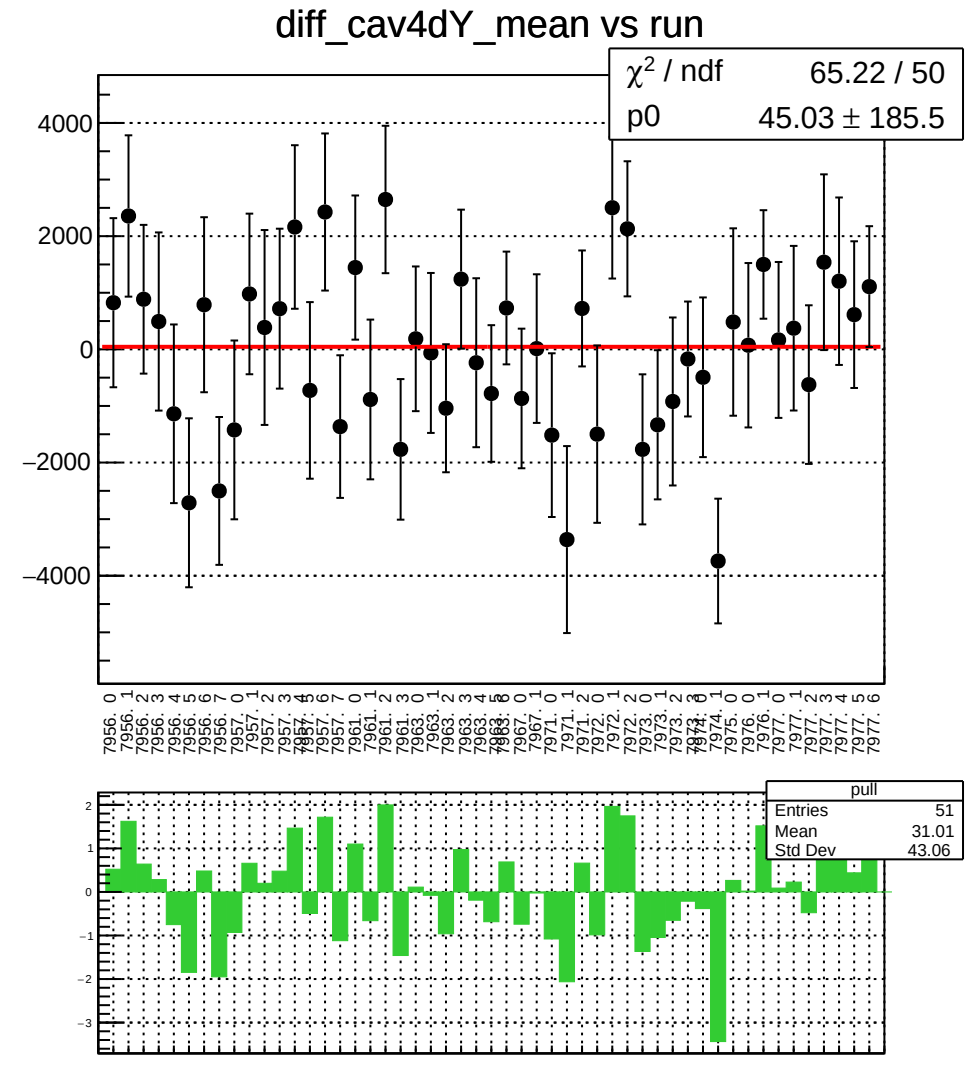
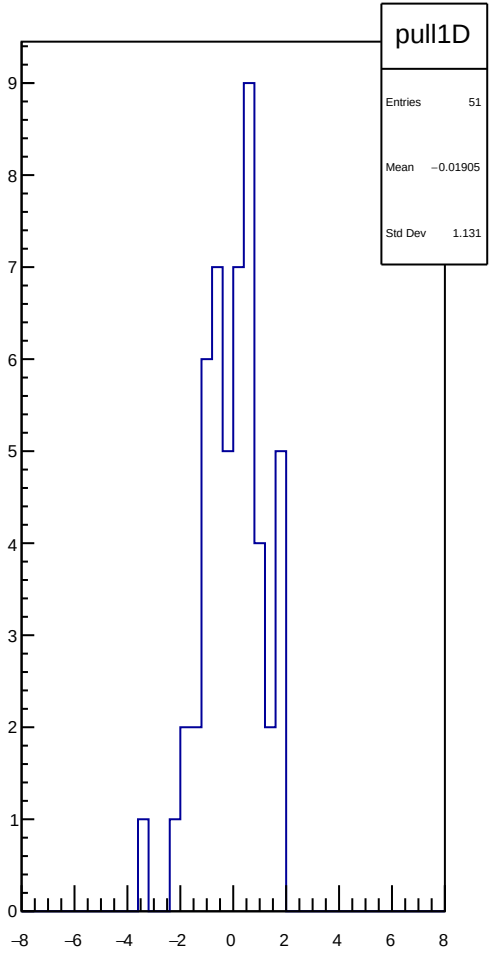
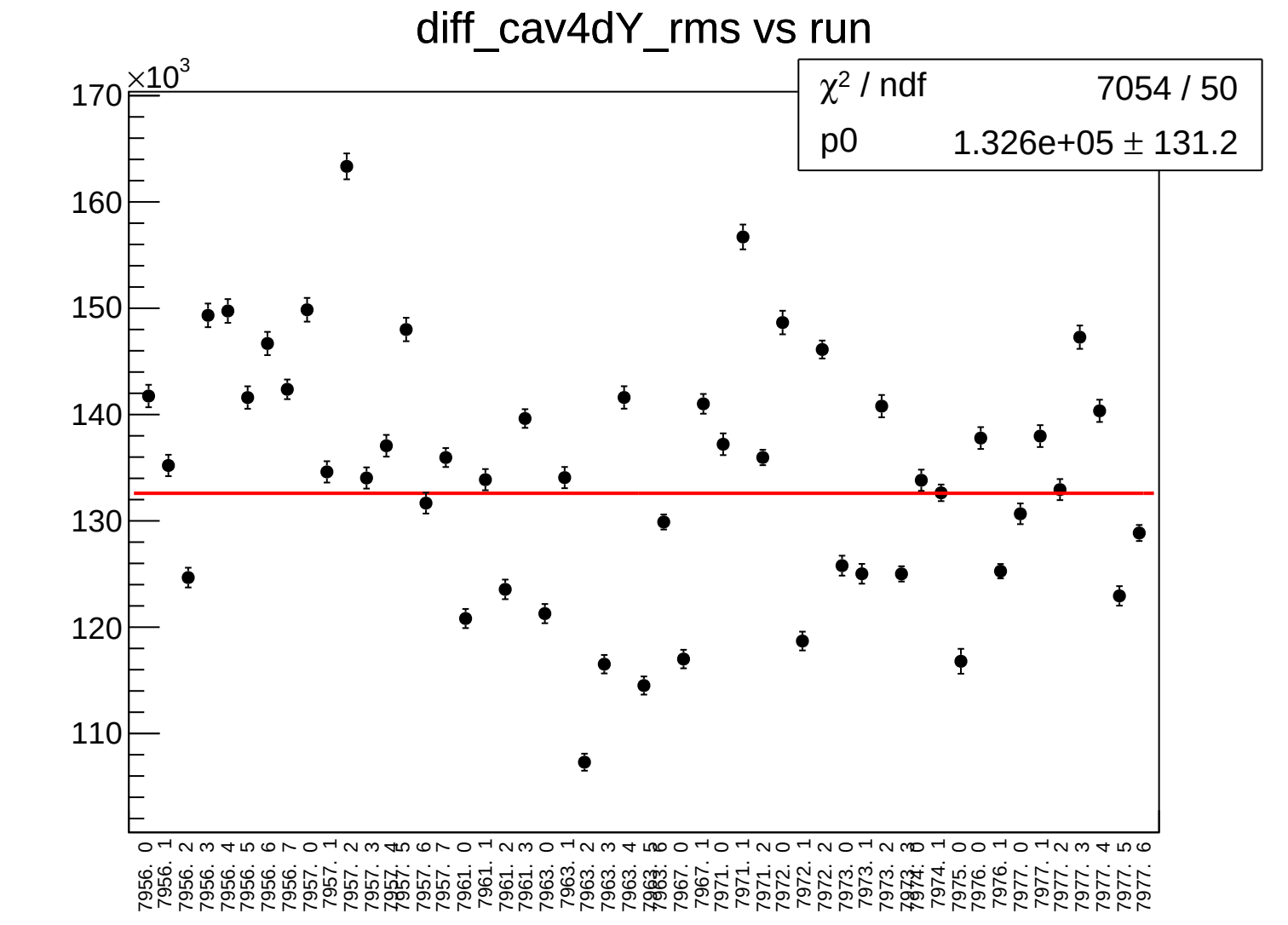
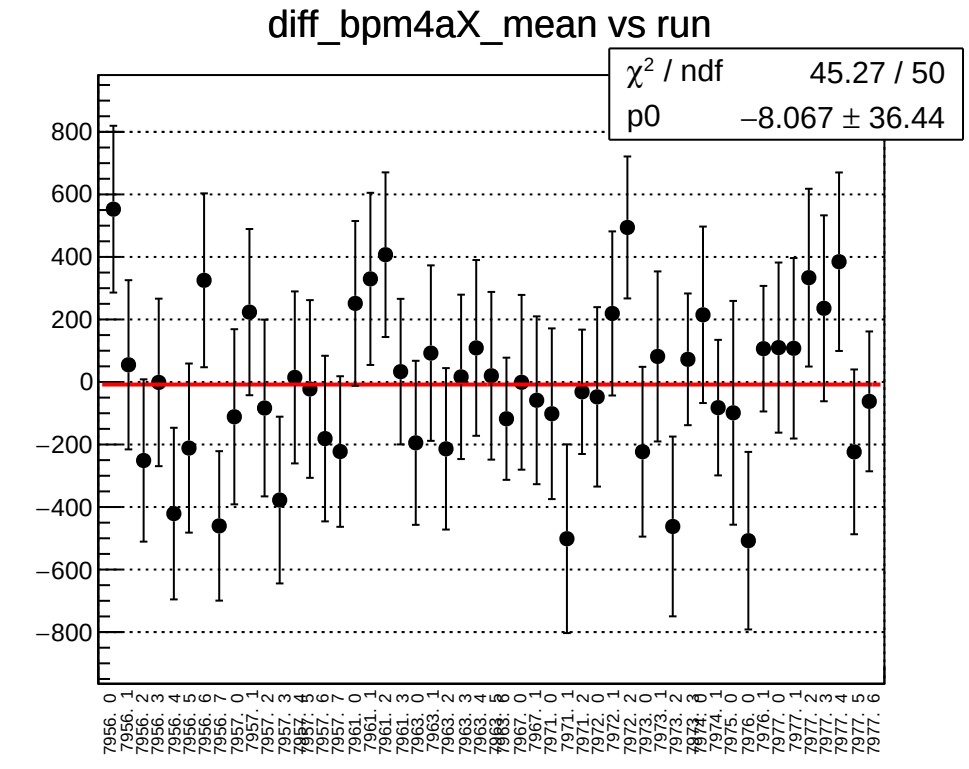
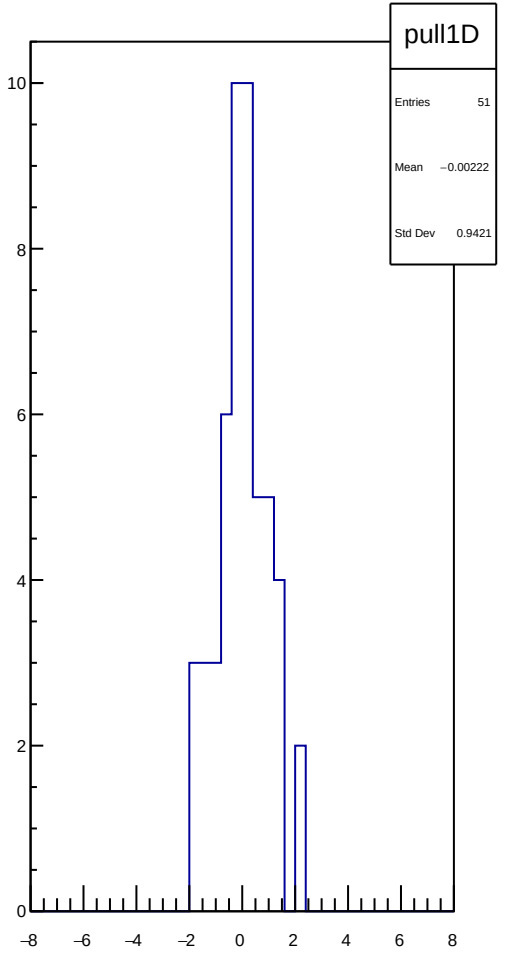
7977. 5
7977. 6

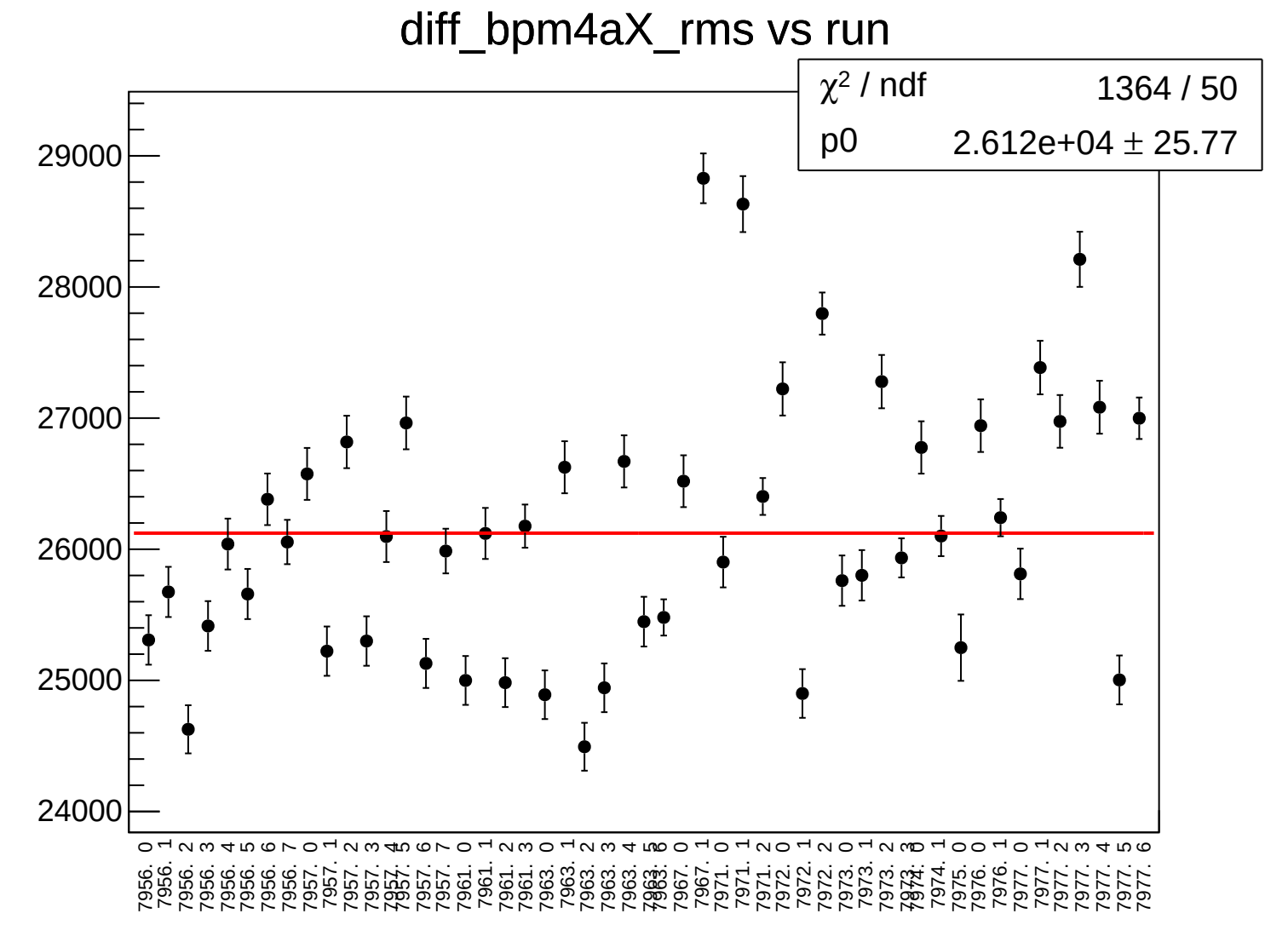

diff_cav4dY_mean vs run
χ² / ndf 65.22 / 50
p0 45.03 ± 185.5
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 31.01
Std Dev 43.06
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.01905
Std Dev 1.131
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dY_rms vs run
χ² / ndf 7054 / 50
p0 1.326e+05 ± 131.2
×10³
170
160
150
140
130
120
110
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_bpm4aX_mean vs run
χ² / ndf 45.27 / 50
p0 −8.067 ± 36.44
pull
Entries 51
Mean −586.6
Std Dev 617


pull1D
Entries 51
Mean −0.00222
Std Dev 0.9421


diff_bpm4aX_rms vs run
χ² / ndf 1364 / 50
p0 2.612e+04 ± 25.77
29000
28000
27000
26000
25000
24000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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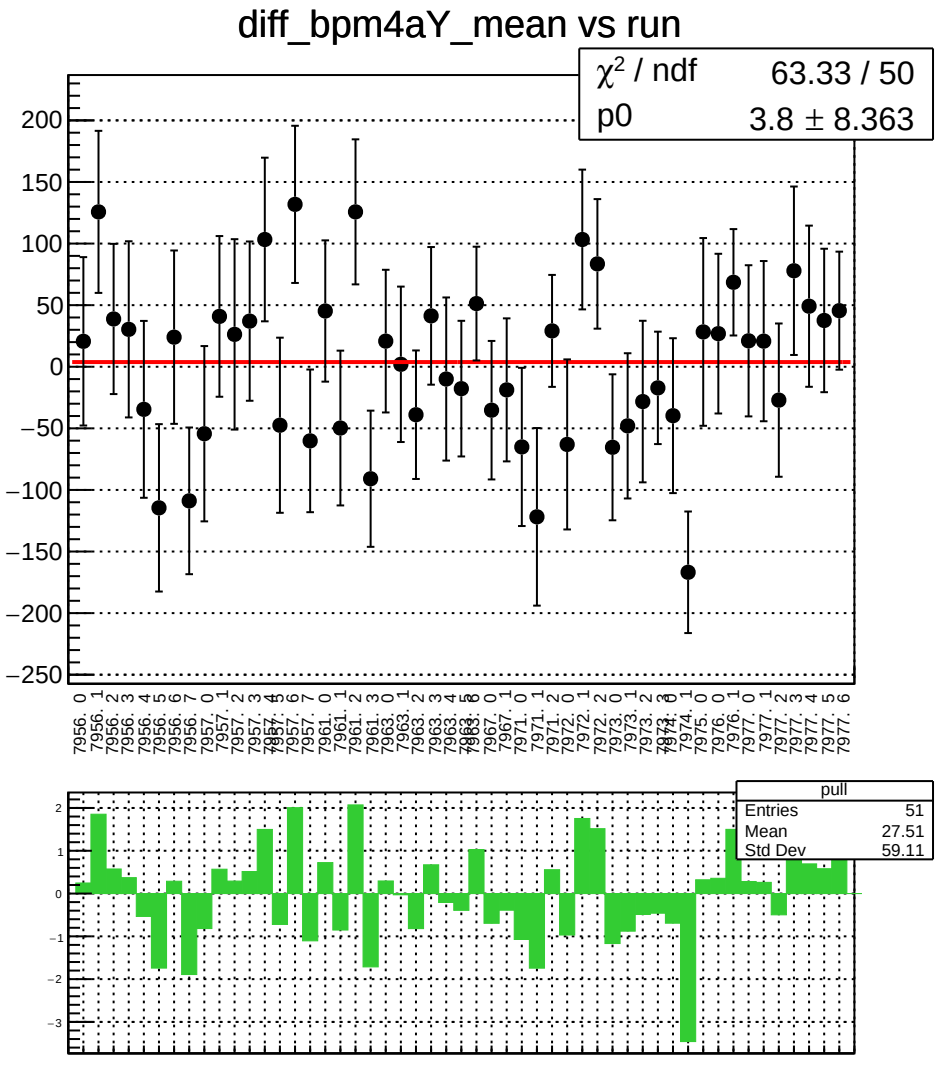
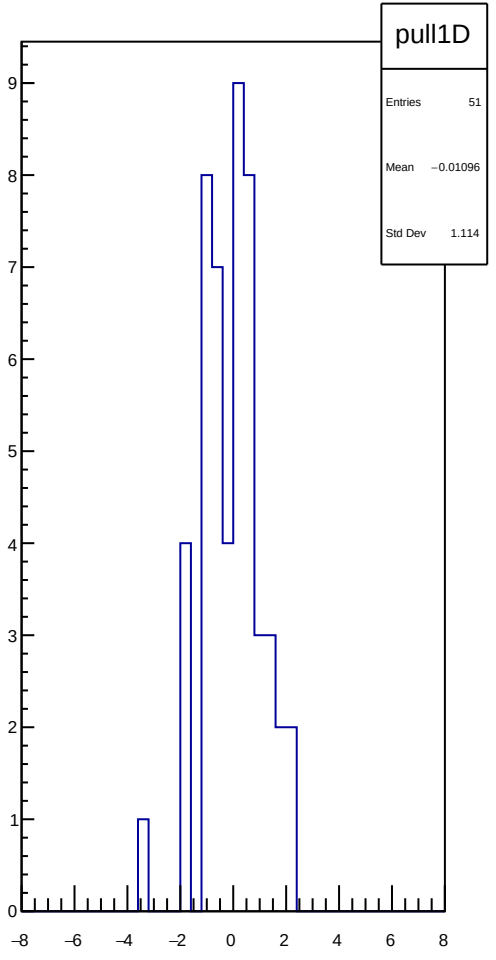
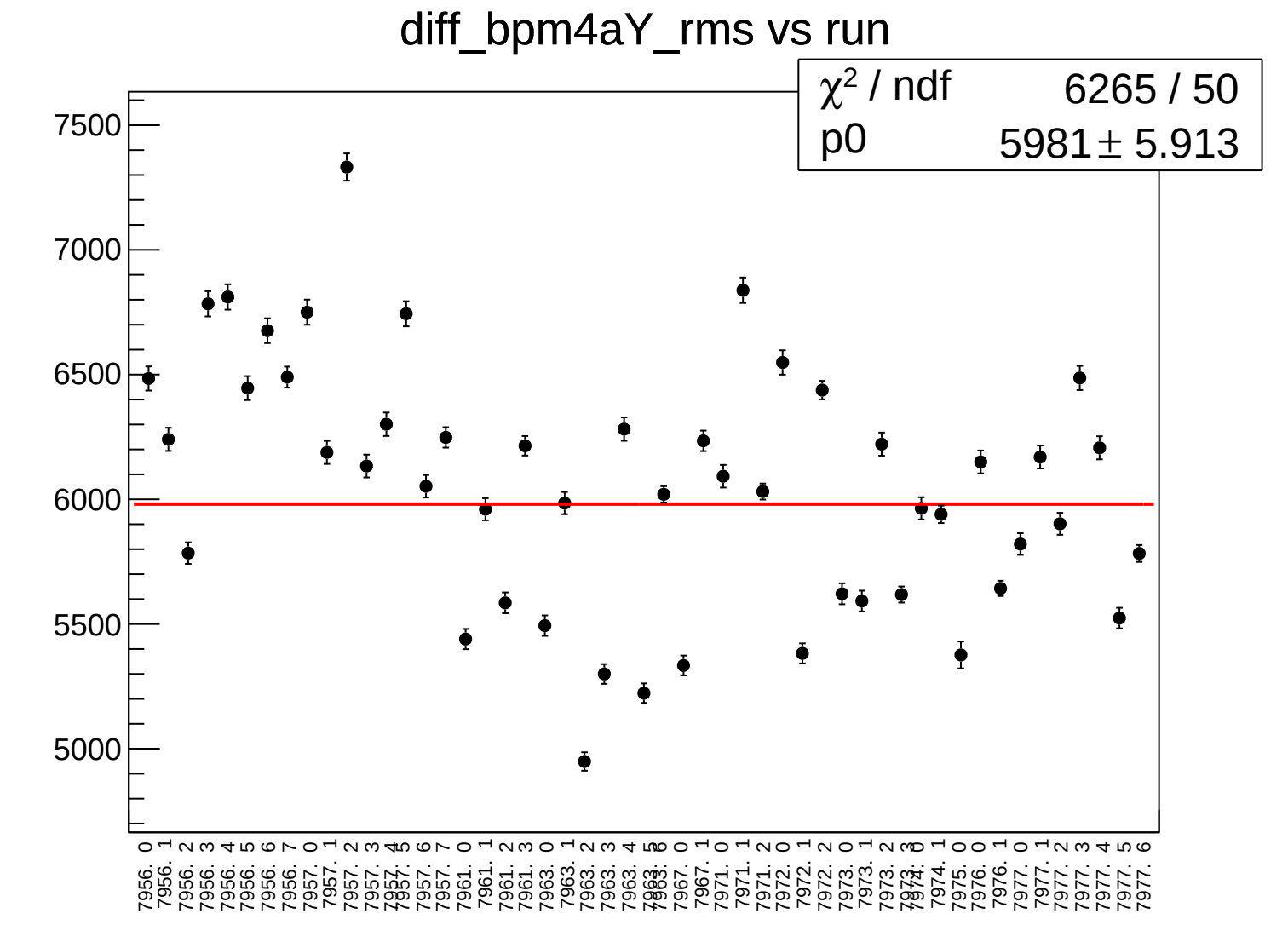
7977. 5
7977. 6


diff_bpm4aY_mean vs run
χ² / ndf 63.33 / 50
p0 3.8 ± 8.363
pull
Entries 51
Mean 27.51
Std Dev 59.11


pull1D
Entries 51
Mean −0.01096
Std Dev 1.114


diff_bpm4aY_rms vs run
χ² / ndf 6265 / 50
p0 5981 ± 5.913
7500
7000
6500
6000
5500
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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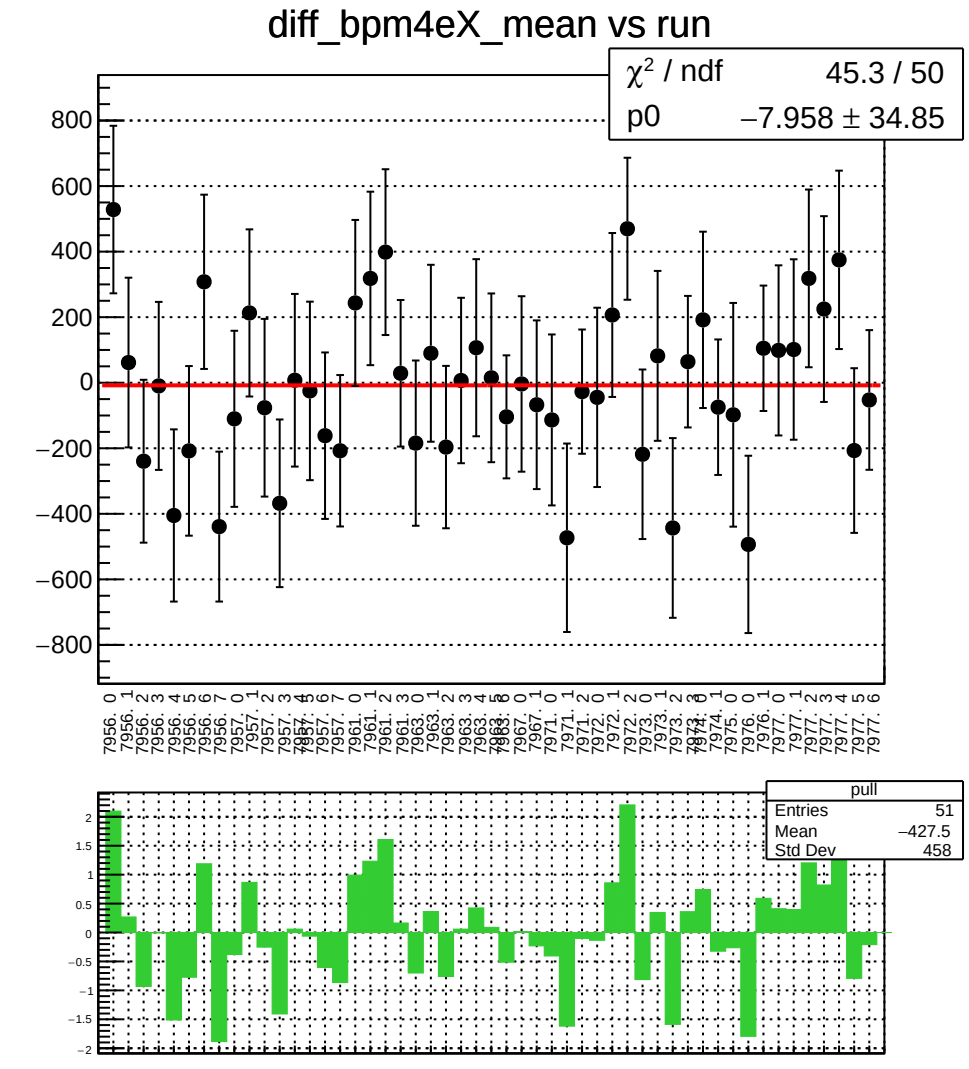
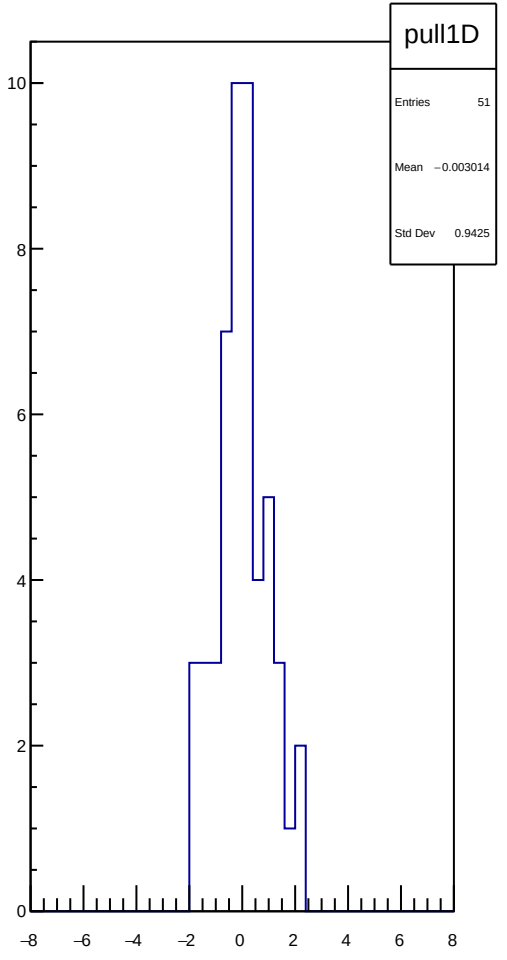
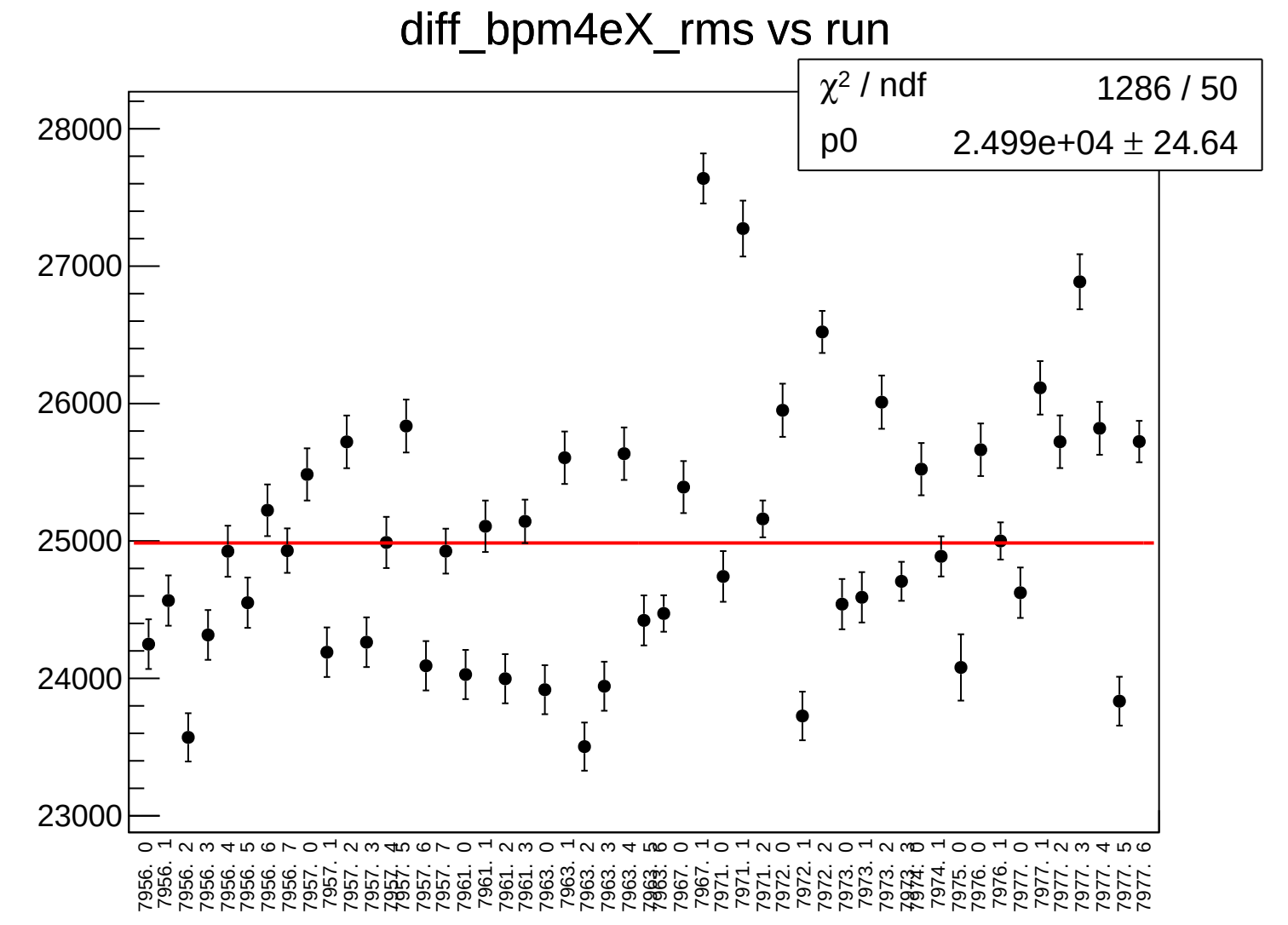
7977. 5
7977. 6


diff_bpm4eX_mean vs run
χ² / ndf 45.3 / 50
p0 −7.958 ± 34.85
pull
Entries 51
Mean −427.5
Std Dev 458


pull1D
Entries 51
Mean −0.003014
Std Dev 0.9425


diff_bpm4eX_rms vs run
χ² / ndf 1286 / 50
p0 2.499e+04 ± 24.64
28000
27000
26000
25000
24000
23000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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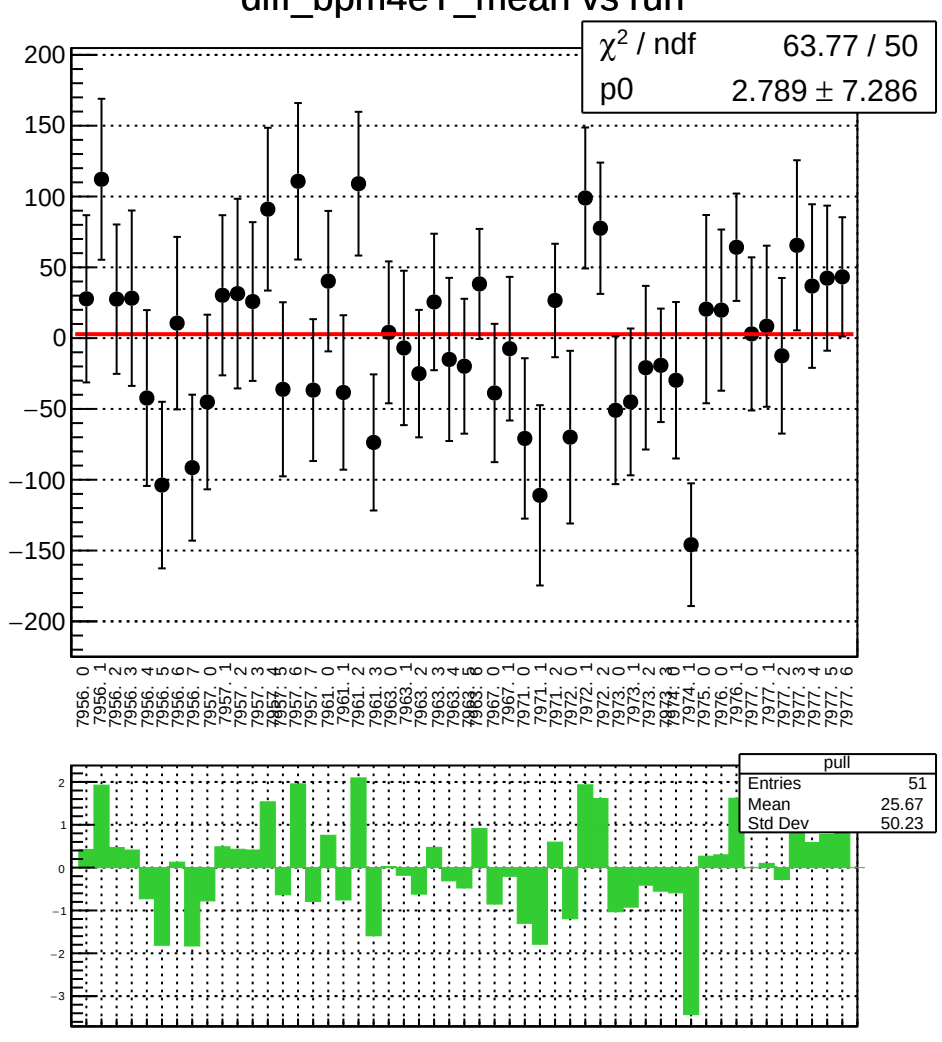
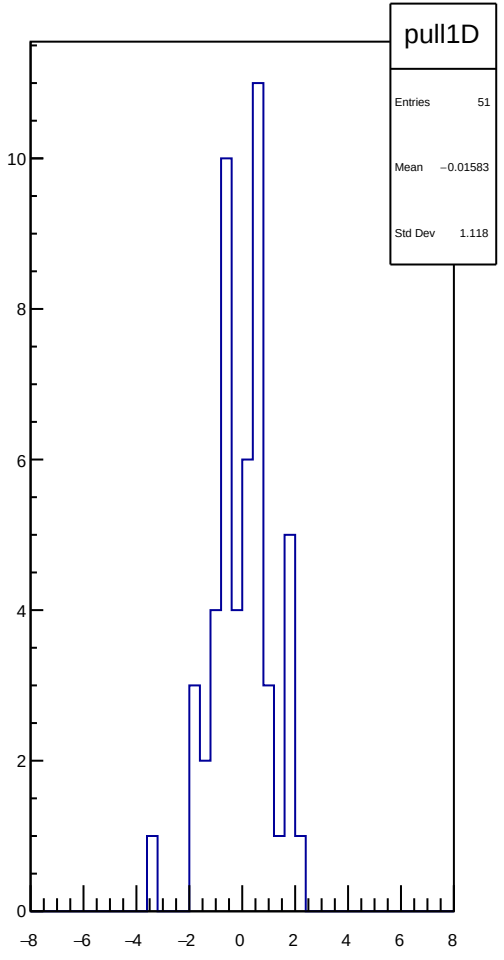
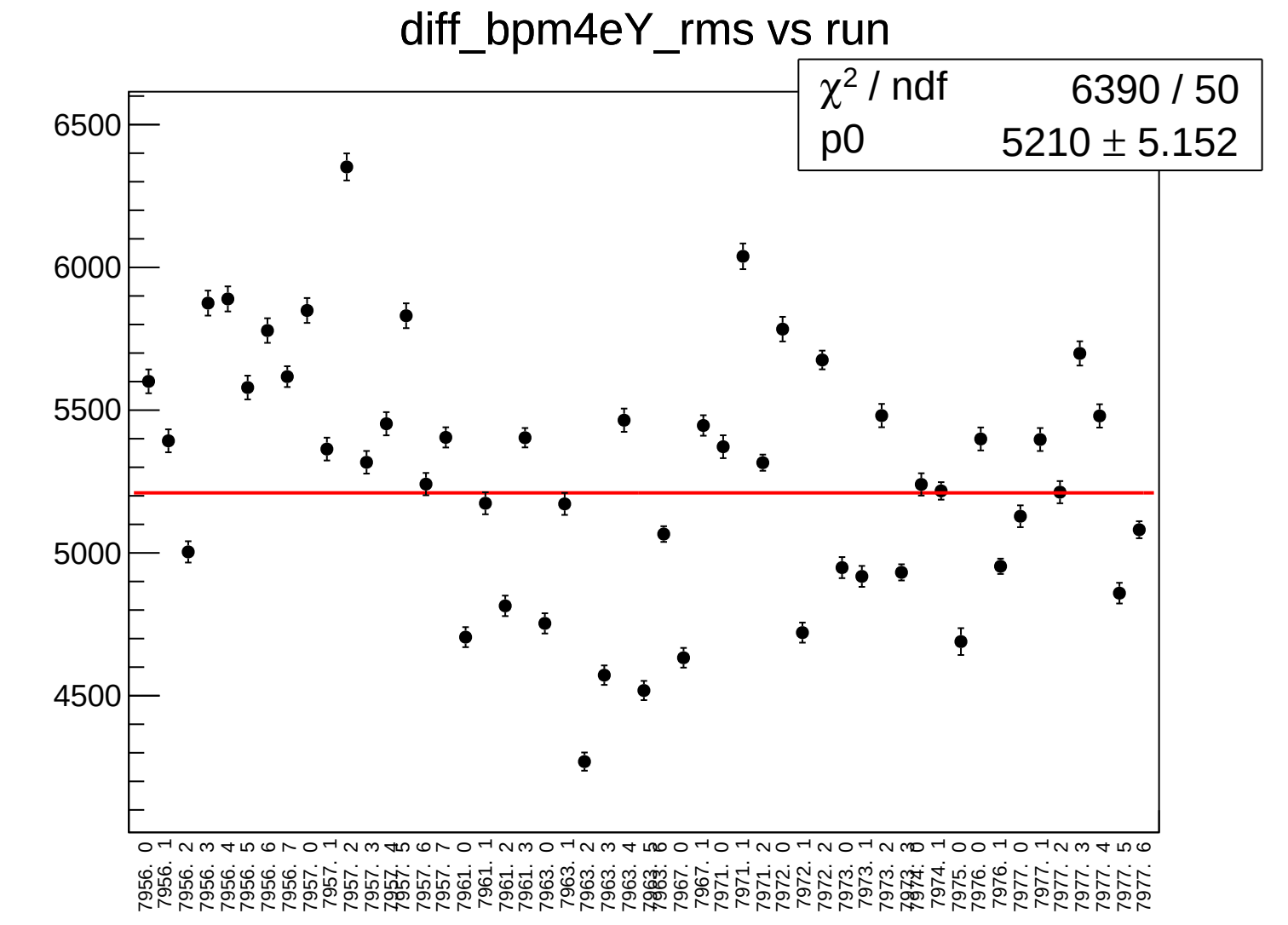
7977. 5
7977. 6


diff_bpm4eY_mean vs run
χ^2 / ndf 63.77 / 50
p0 2.789 ± 7.286
pull
Entries 51
Mean 25.67
Std Dev 50.23


pull1D
Entries 51
Mean −0.01583
Std Dev 1.118


diff_bpm4eY_rms vs run
χ² / ndf 6390 / 50
p0 5210 ± 5.152
6500
6000
5500
5000
4500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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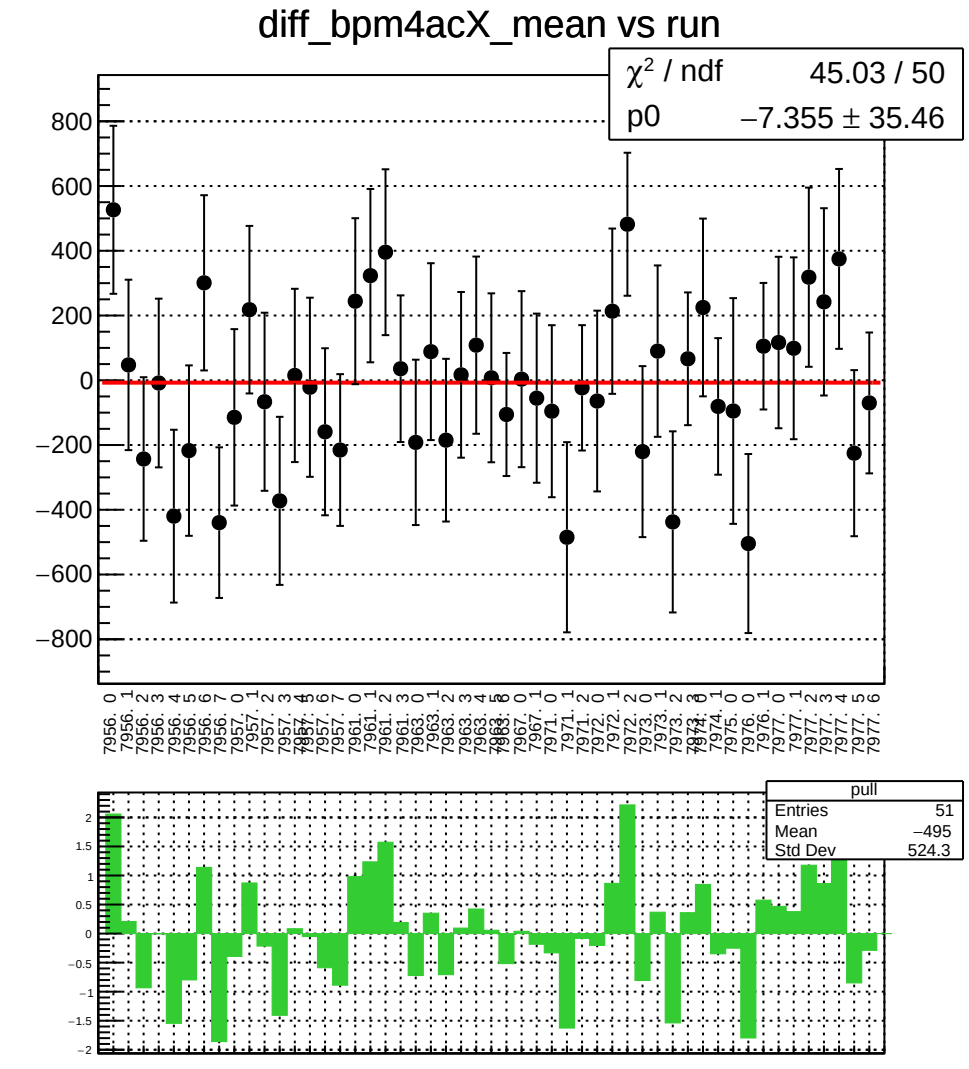
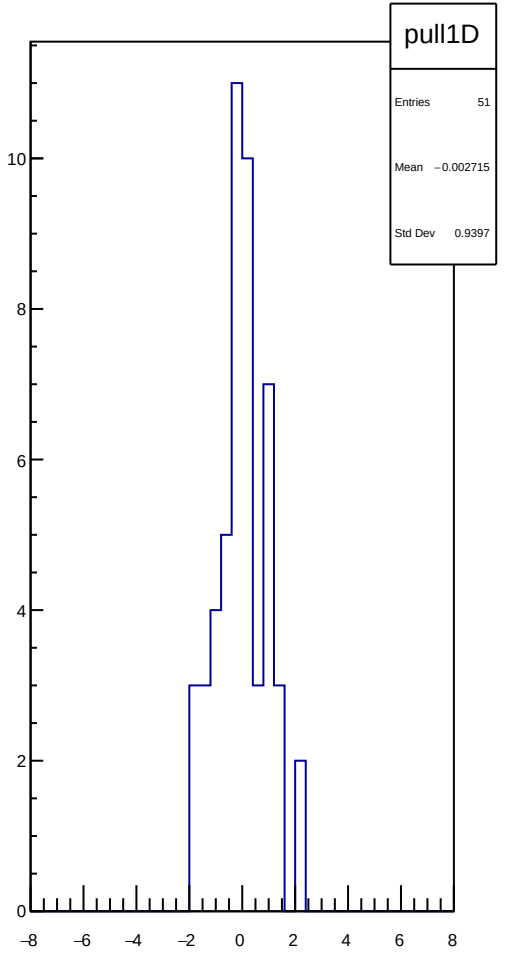
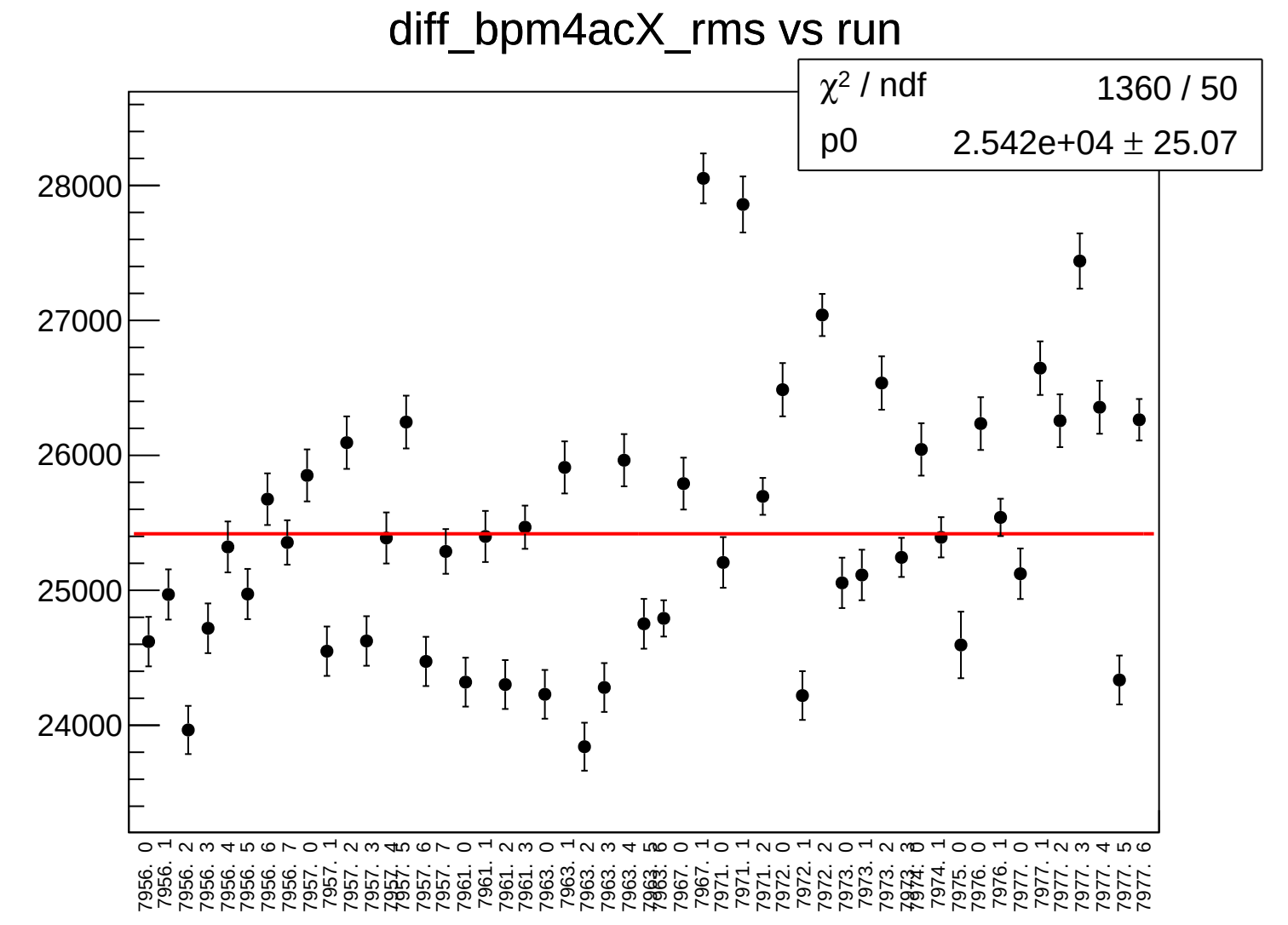
7977. 5
7977. 6


diff_bpm4acX_mean vs run
χ² / ndf 45.03 / 50
p0 −7.355 ± 35.46
pull
Entries 51
Mean −495
Std Dev 524.3


pull1D
Entries 51
Mean −0.002715
Std Dev 0.9397


diff_bpm4acX_rms vs run
χ² / ndf 1360 / 50
p0 2.542e+04 ± 25.07
28000
27000
26000
25000
24000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
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7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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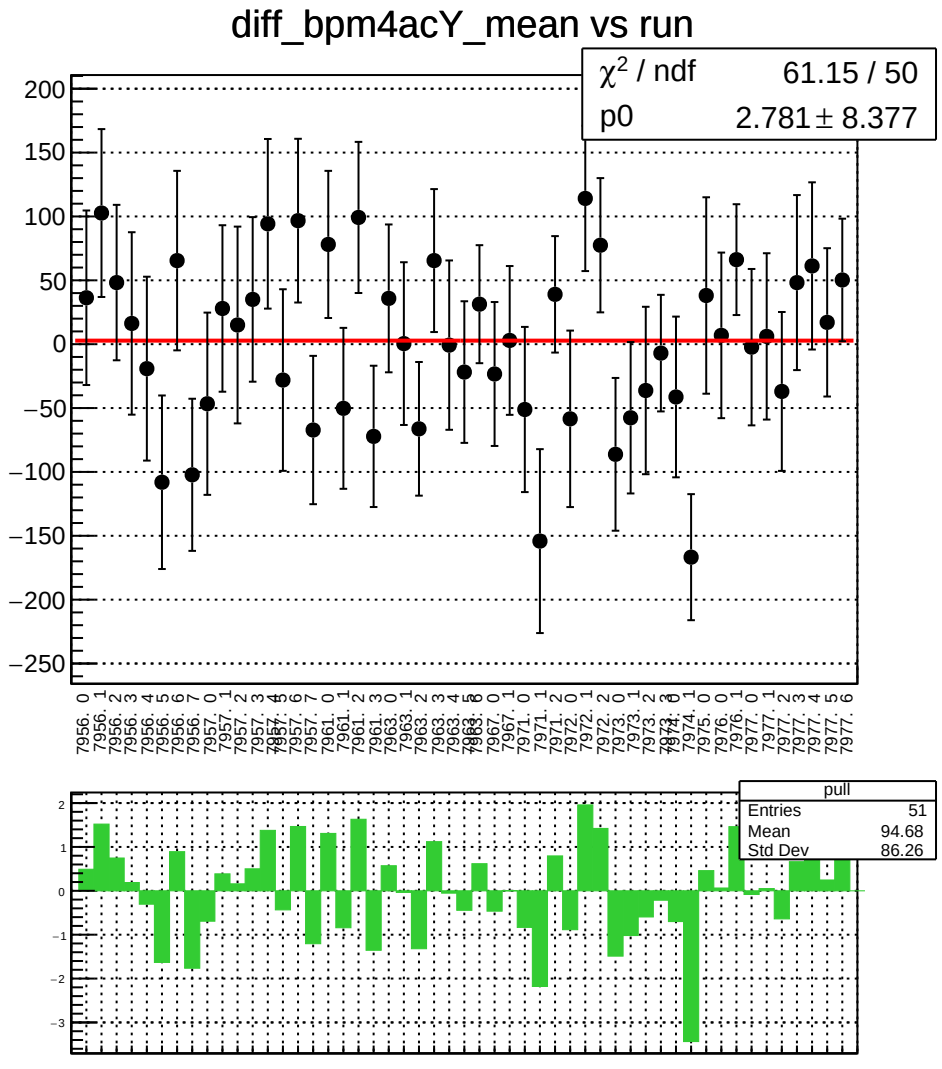
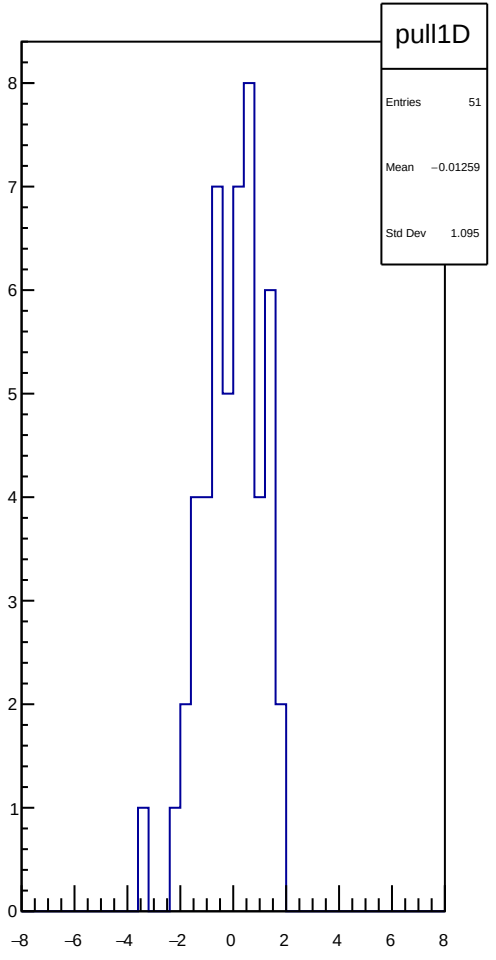
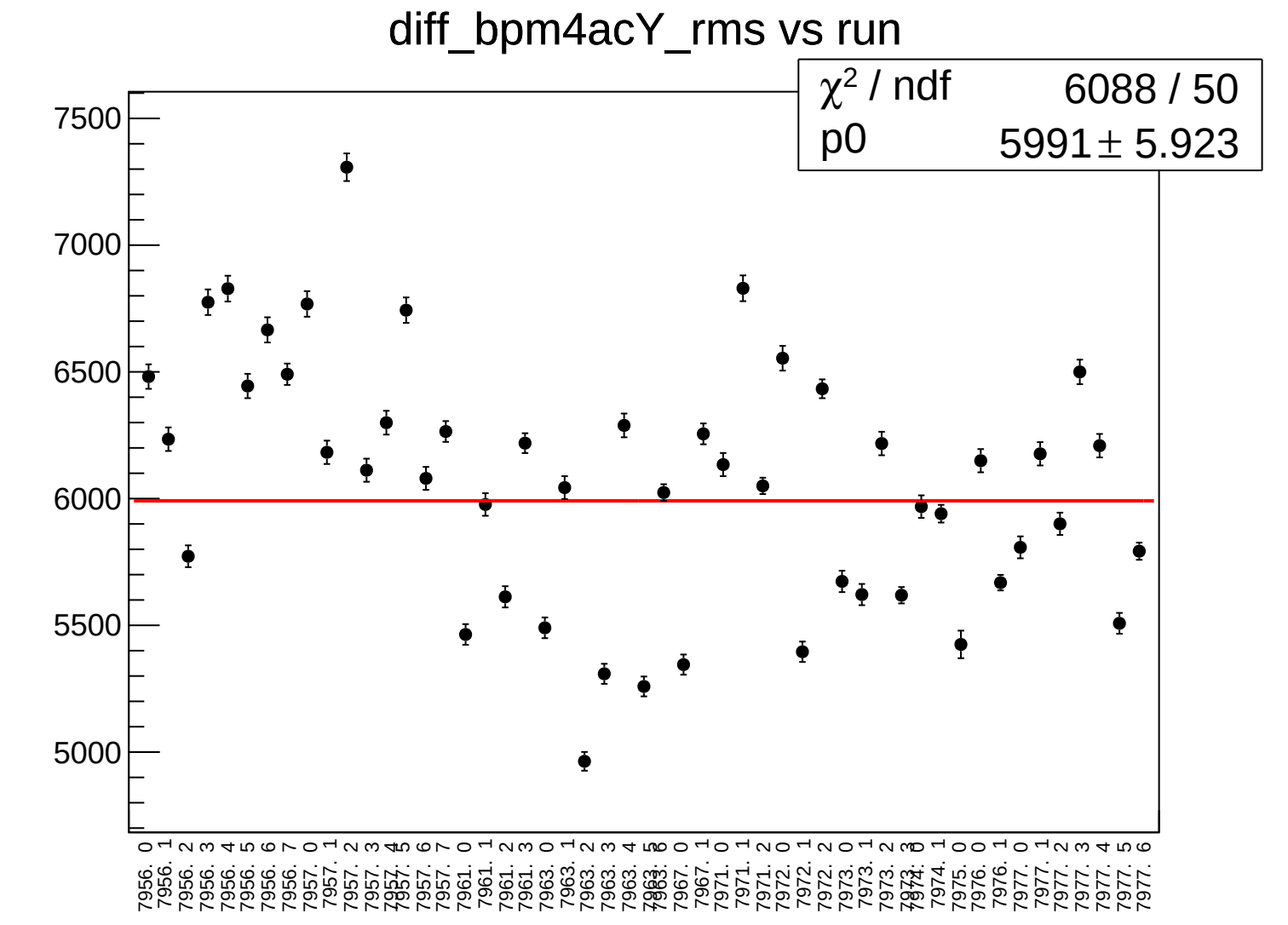
7977. 5
7977. 6


diff_bpm4acY_mean vs run
χ² / ndf 61.15 / 50
p0 2.781 ± 8.377
pull
Entries 51
Mean 94.68
Std Dev 86.26


pull1D
Entries 51
Mean −0.01259
Std Dev 1.095


diff_bpm4acY_rms vs run
χ² / ndf 6088 / 50
p0 5991 ± 5.923
7500
7000
6500
6000
5500
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
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7957. 2
7957. 3
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7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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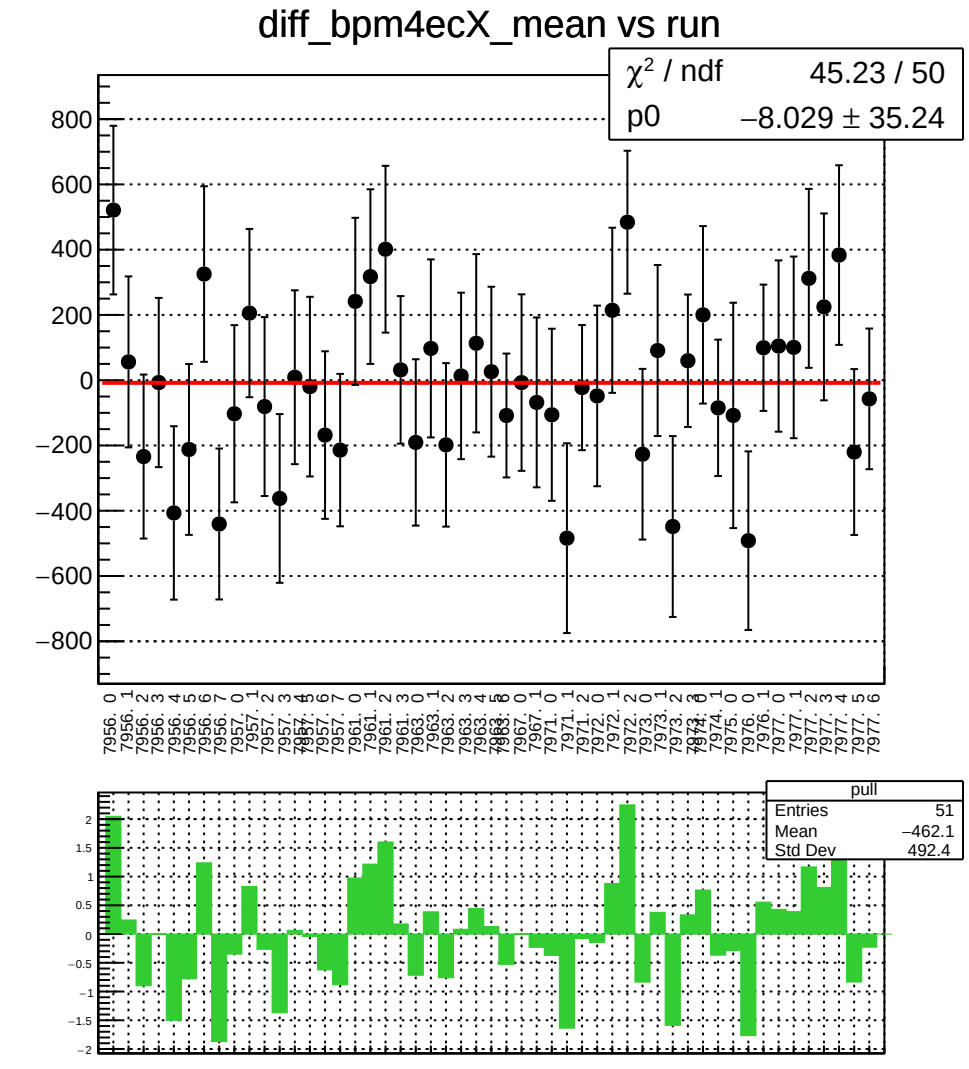
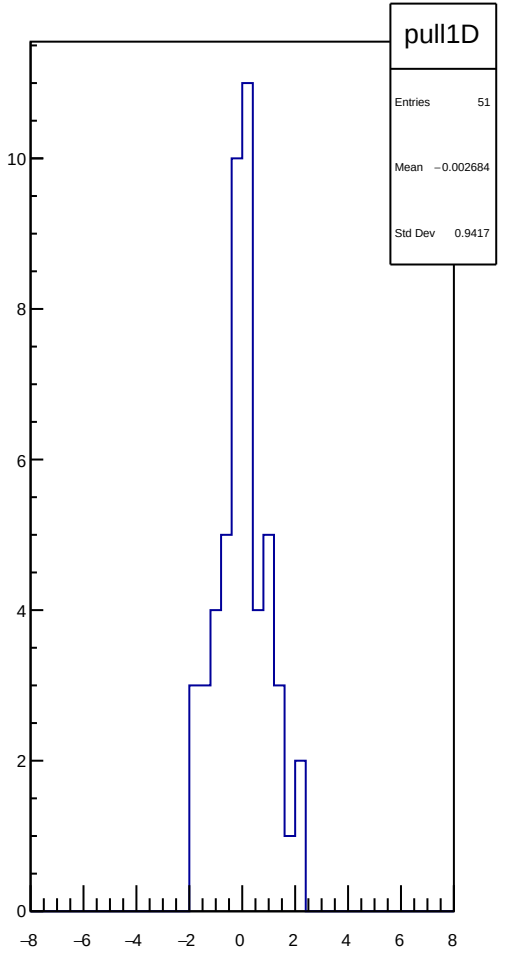
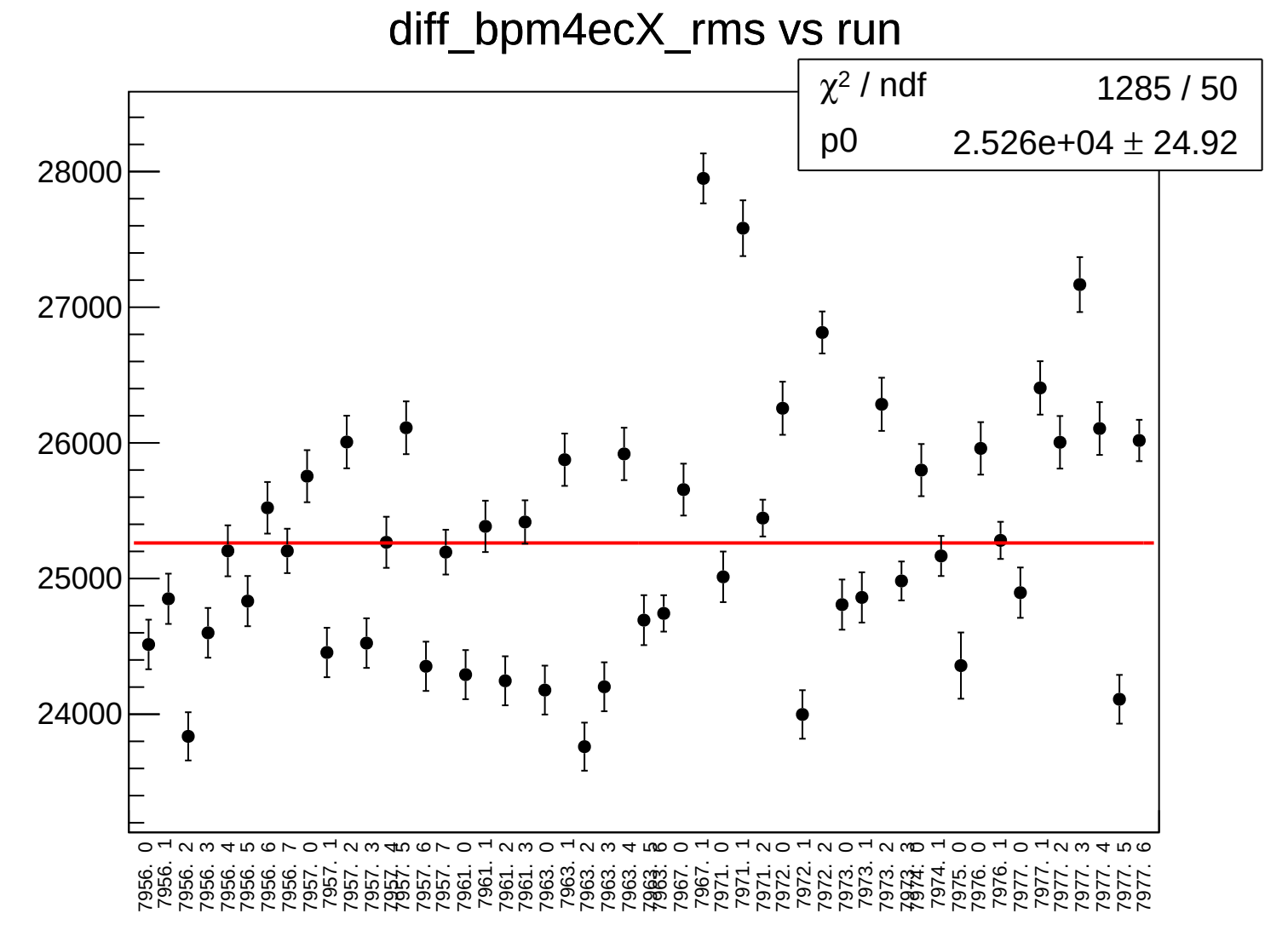
7977. 5
7977. 6


diff_bpm4ecX_mean vs run
χ² / ndf 45.23 / 50
p0 −8.029 ± 35.24
pull
Entries 51
Mean −462.1
Std Dev 492.4


pull1D
Entries 51
Mean −0.002684
Std Dev 0.9417


diff_bpm4ecX_rms vs run
χ² / ndf 1285 / 50
p0 2.526e+04 ± 24.92
28000
27000
26000
25000
24000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
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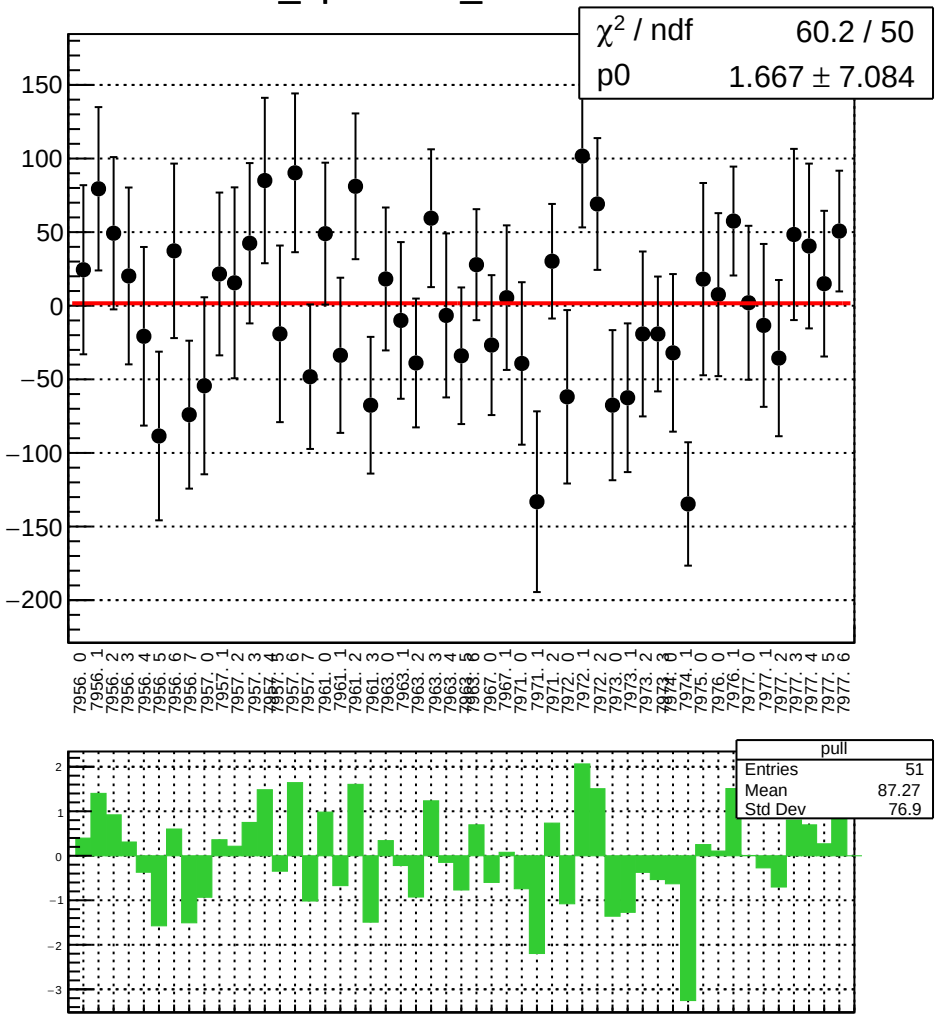
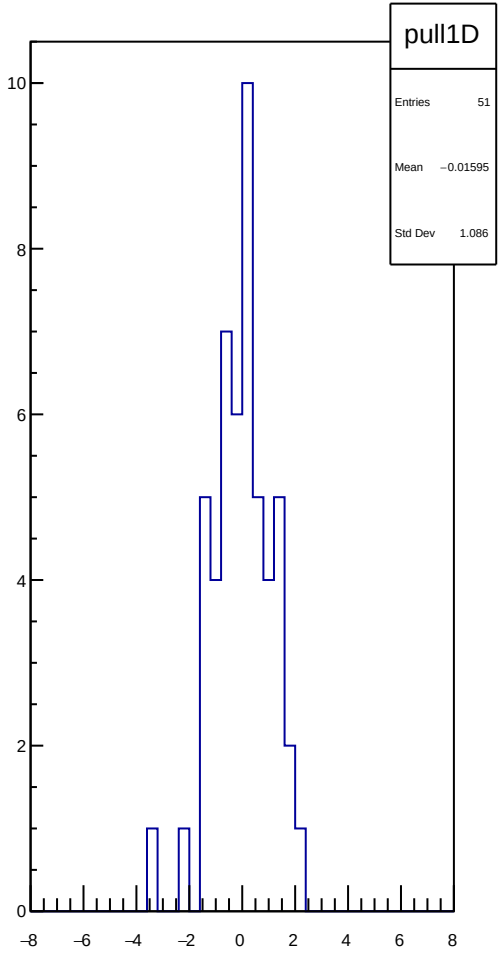
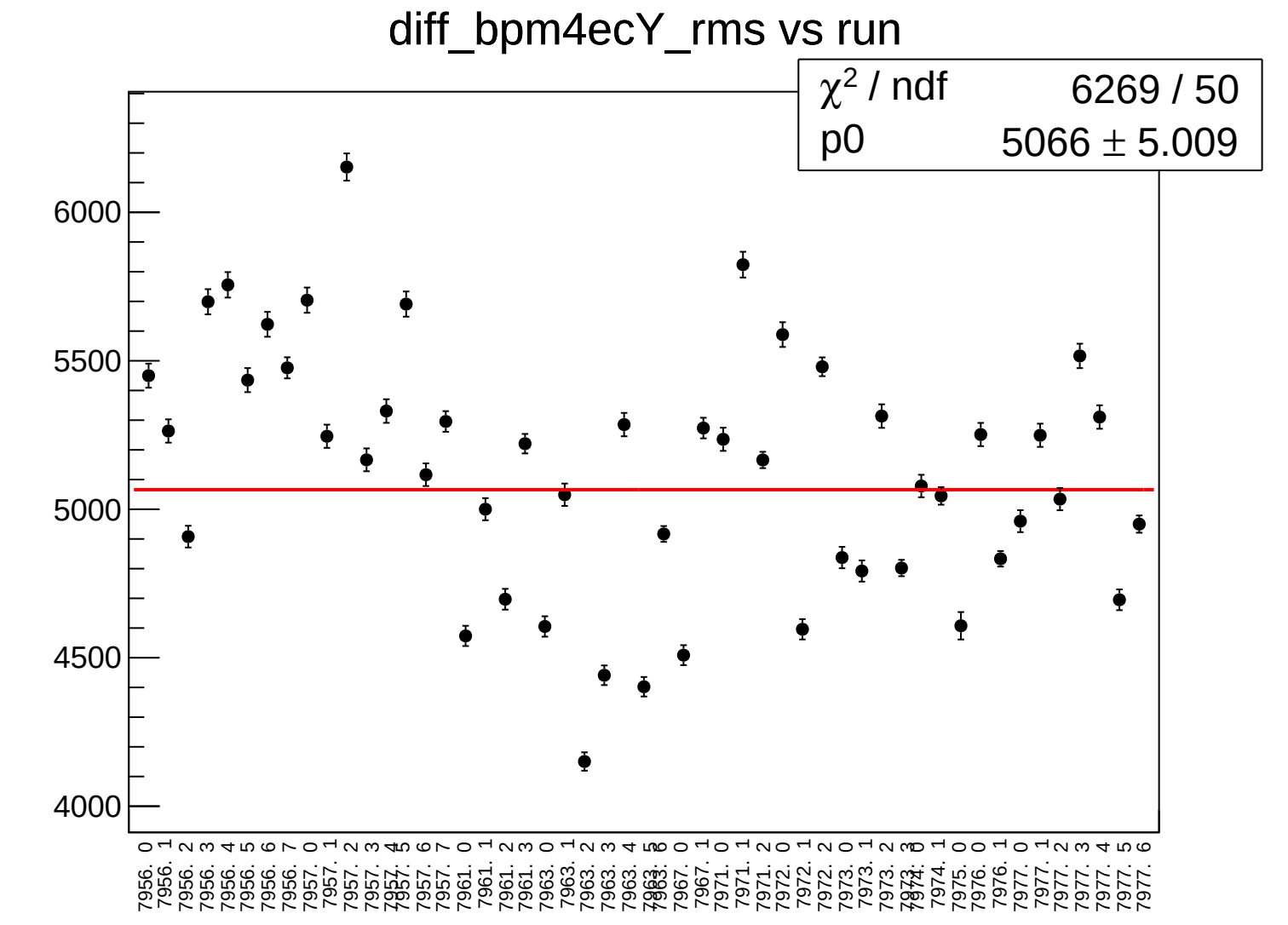
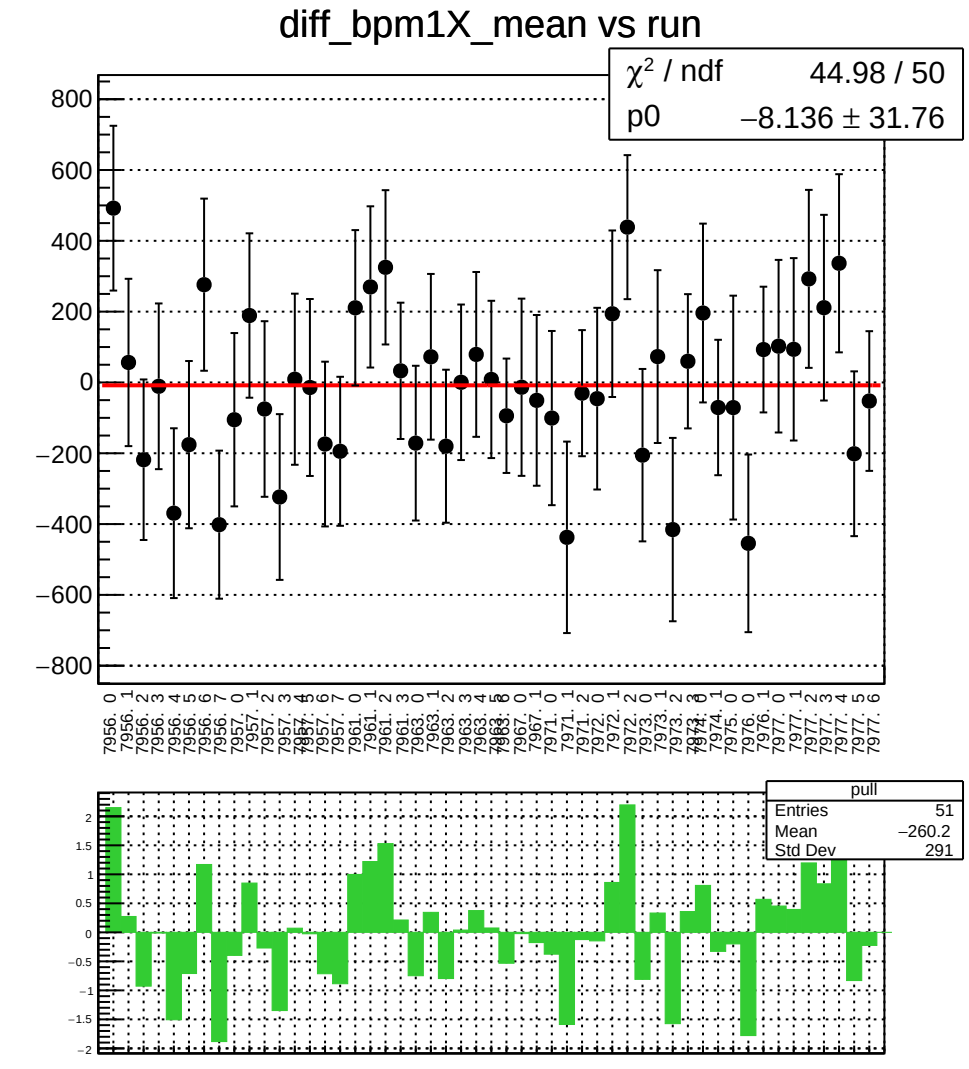
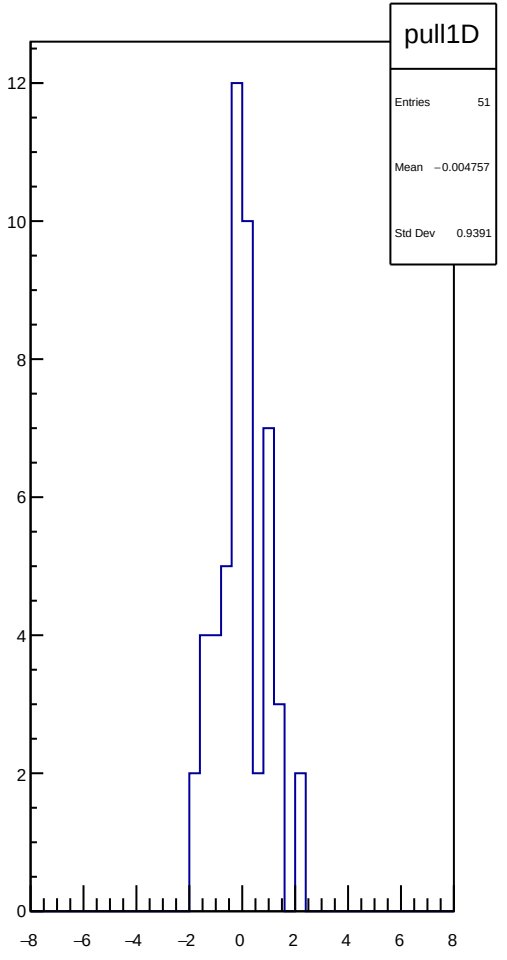
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

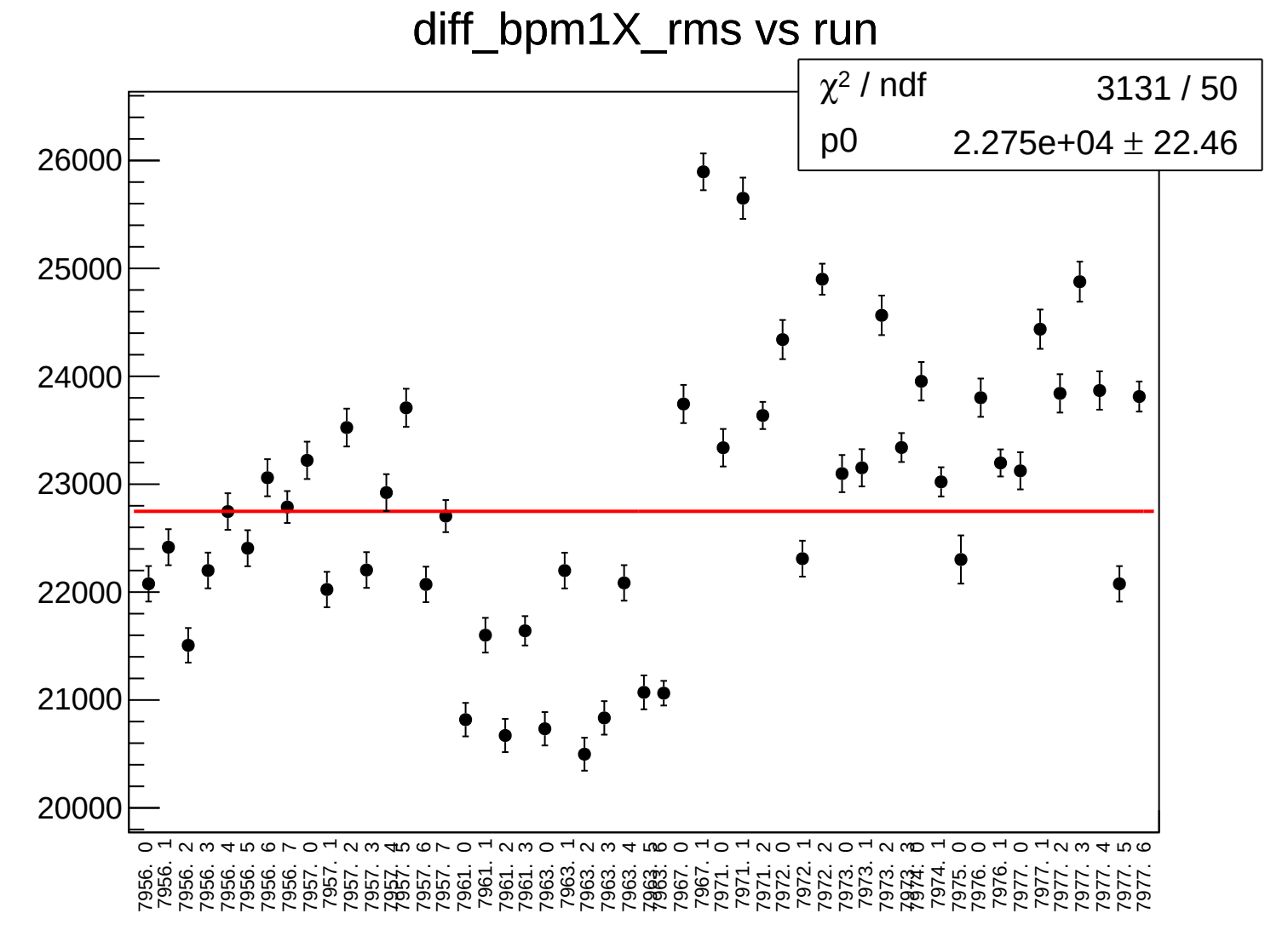

diff_bpm4ecY_mean vs run
χ^2 / ndf 60.2 / 50
p0 1.667 ± 7.084
pull
Entries 51
Mean 87.27
Std Dev 76.9


pull1D
Entries 51
Mean −0.01595
Std Dev 1.086


diff_bpm4ecY_rms vs run
χ² / ndf 6269 / 50
p0 5066 ± 5.009
6000
5500
5000
4500
4000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_bpm1X_mean vs run
χ² / ndf 44.98 / 50
p0 −8.136 ± 31.76
pull
Entries 51
Mean −260.2
Std Dev 291


pull1D
Entries 51
Mean −0.004757
Std Dev 0.9391


diff_bpm1X_rms vs run
χ² / ndf 3131 / 50
p0 2.275e+04 ± 22.46
26000
25000
24000
23000
22000
21000
20000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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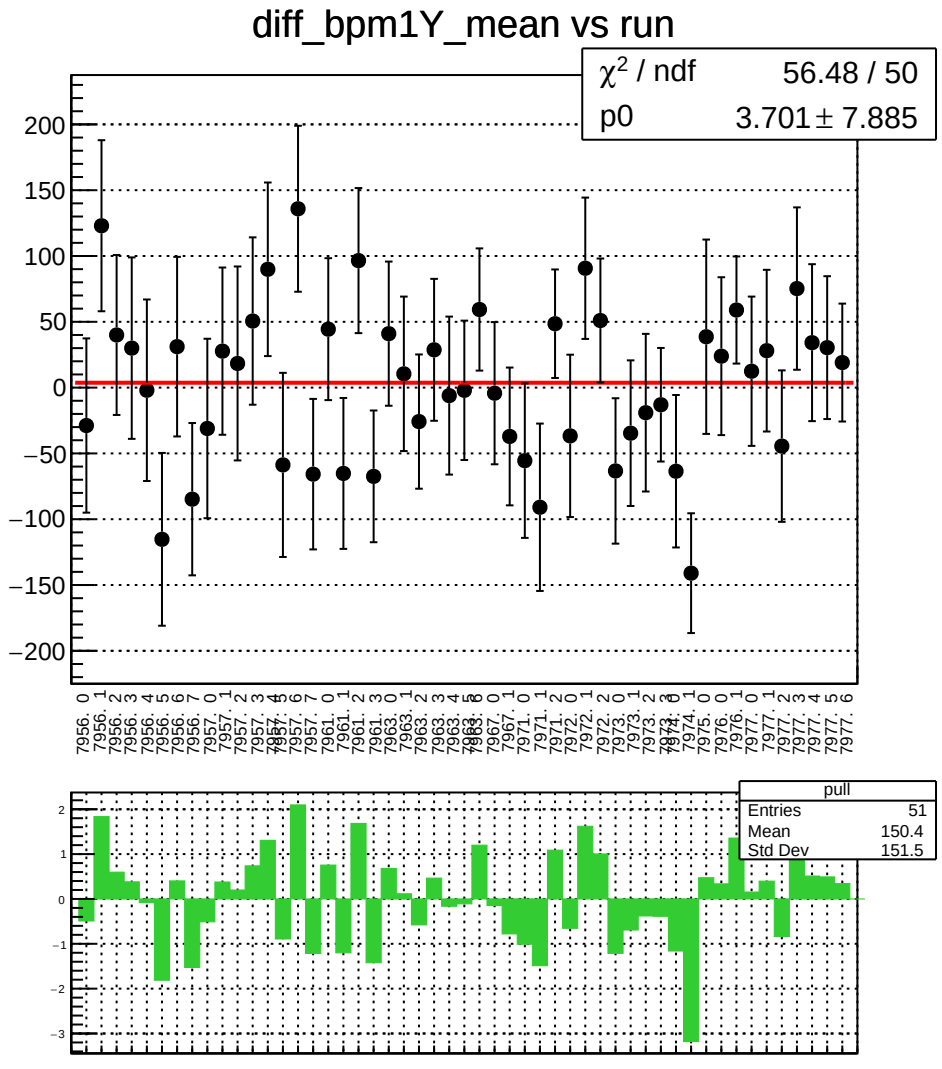
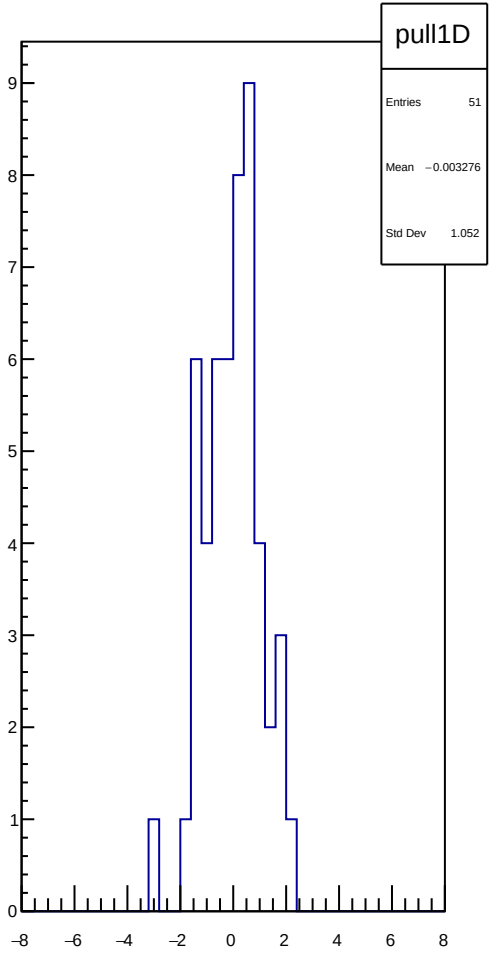
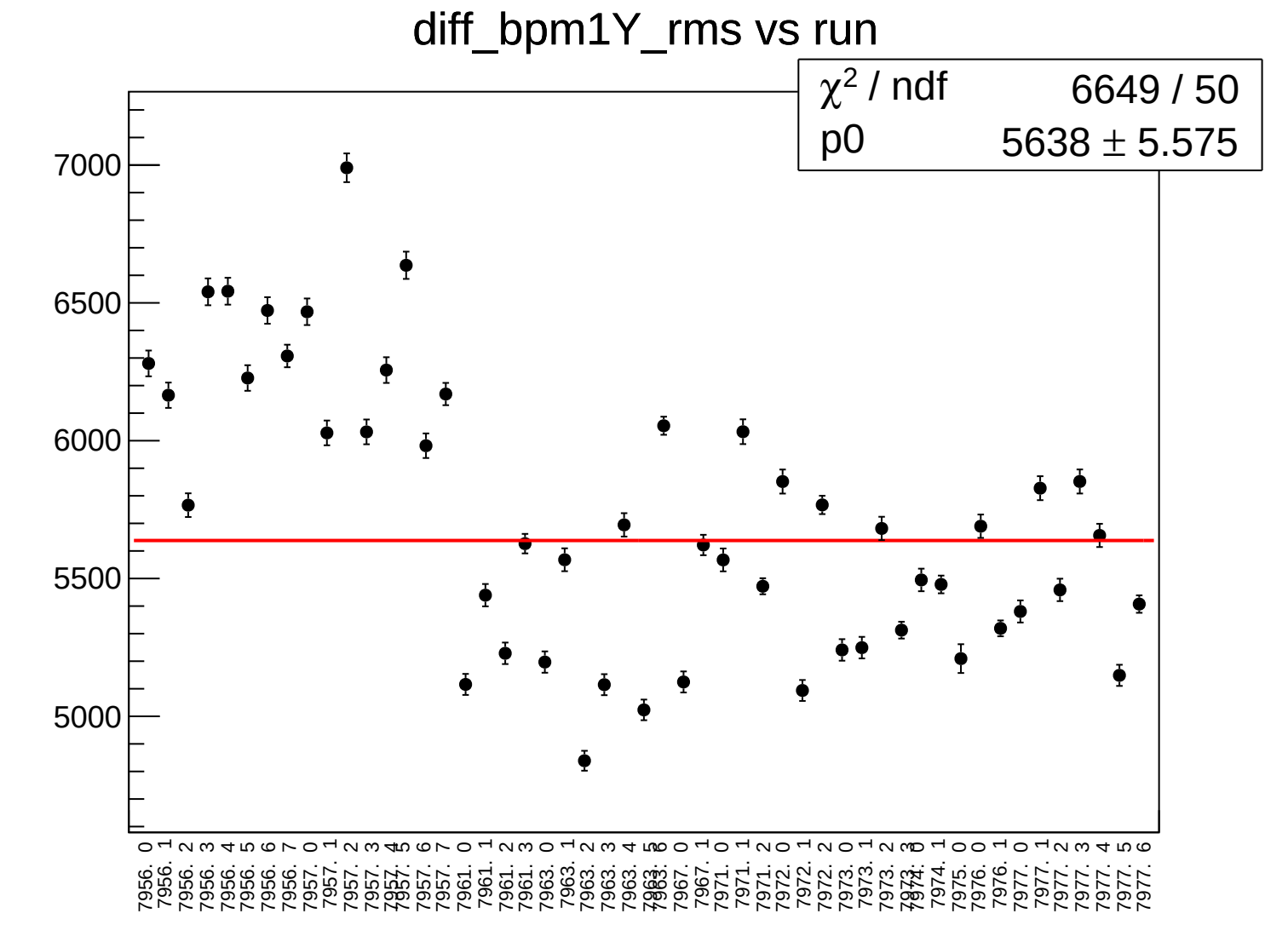
7977. 5
7977. 6


diff_bpm1Y_mean vs run
χ² / ndf 56.48 / 50
p0 3.701 ± 7.885
pull
Entries 51
Mean 150.4
Std Dev 151.5


pull1D
Entries 51
Mean −0.003276
Std Dev 1.052


diff_bpm1Y_rms vs run
χ² / ndf 6649 / 50
p0 5638 ± 5.575
7000
6500
6000
5500
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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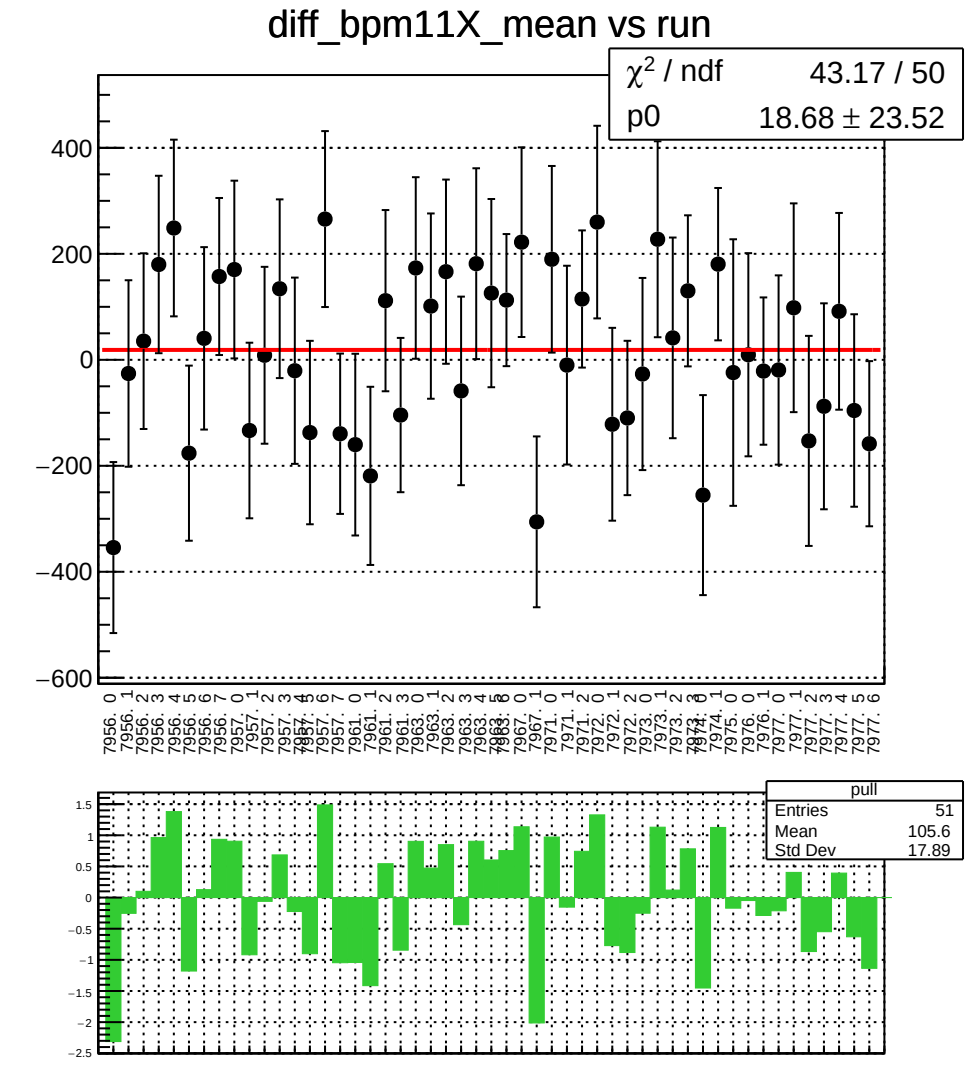
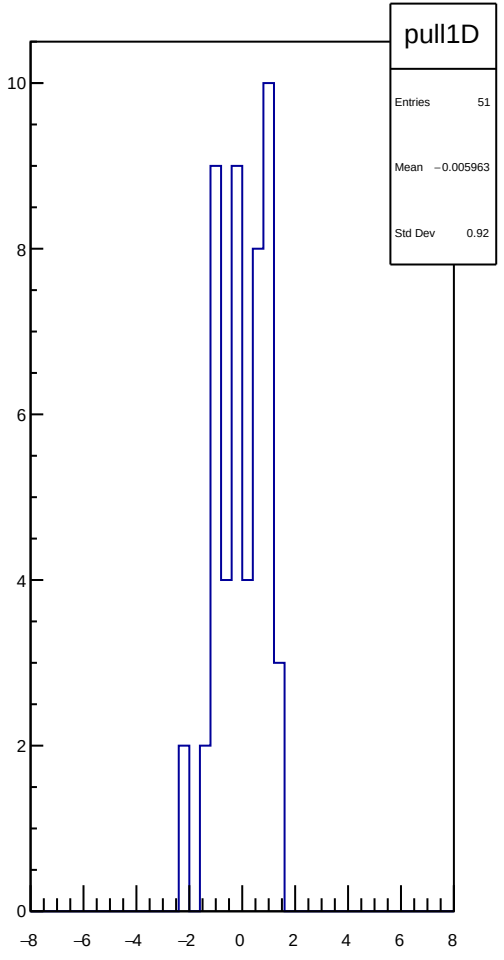
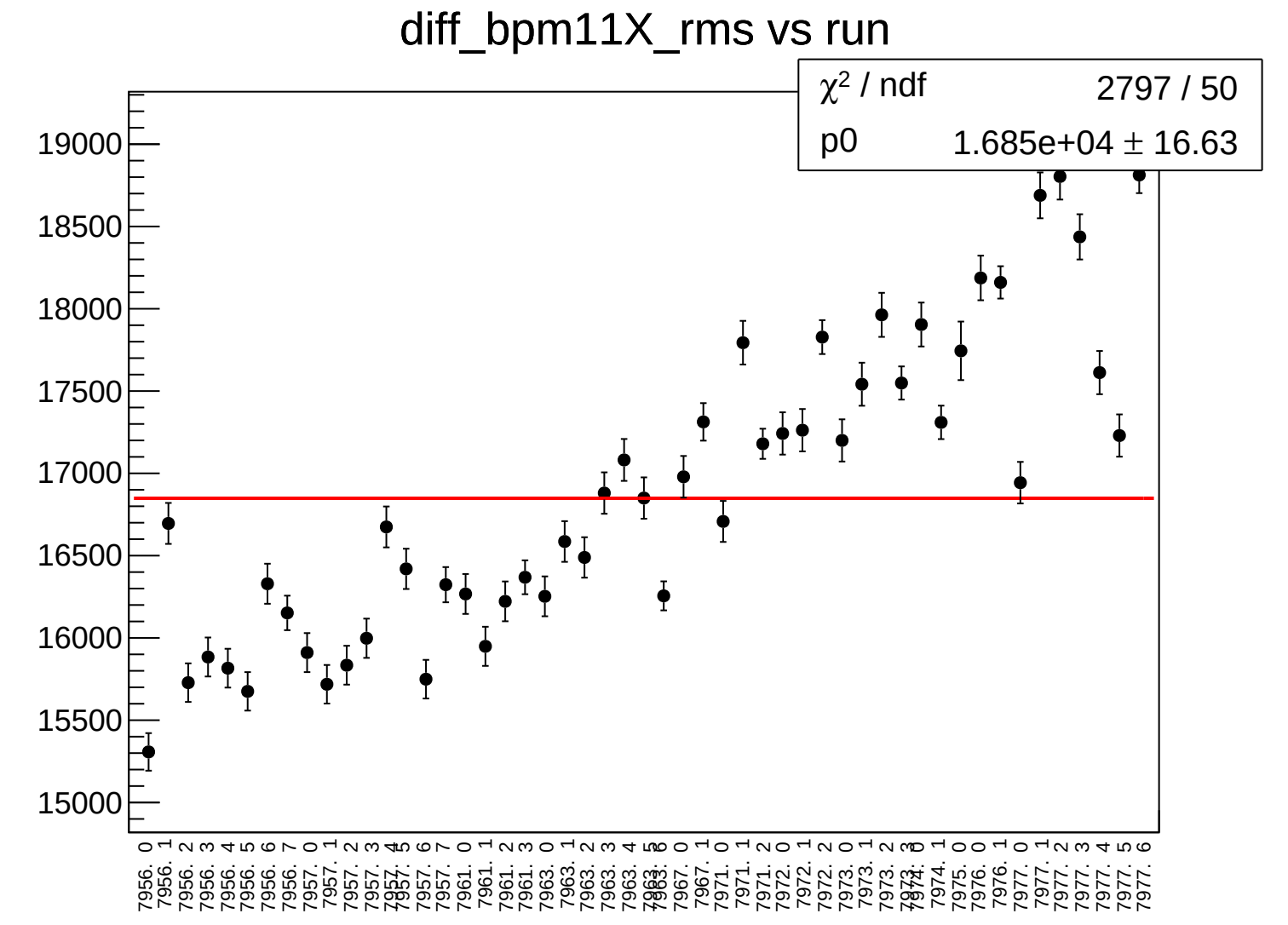
7977. 5
7977. 6


diff_bpm11X_mean vs run
χ^2 / ndf 43.17 / 50
p0 18.68 ± 23.52
pull
Entries 51
Mean 105.6
Std Dev 17.89


pull1D
Entries 51
Mean −0.005963
Std Dev 0.92


diff_bpm11X_rms vs run
χ² / ndf 2797 / 50
p0 1.685e+04 ± 16.63
19000
18500
18000
17500
17000
16500
16000
15500
15000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
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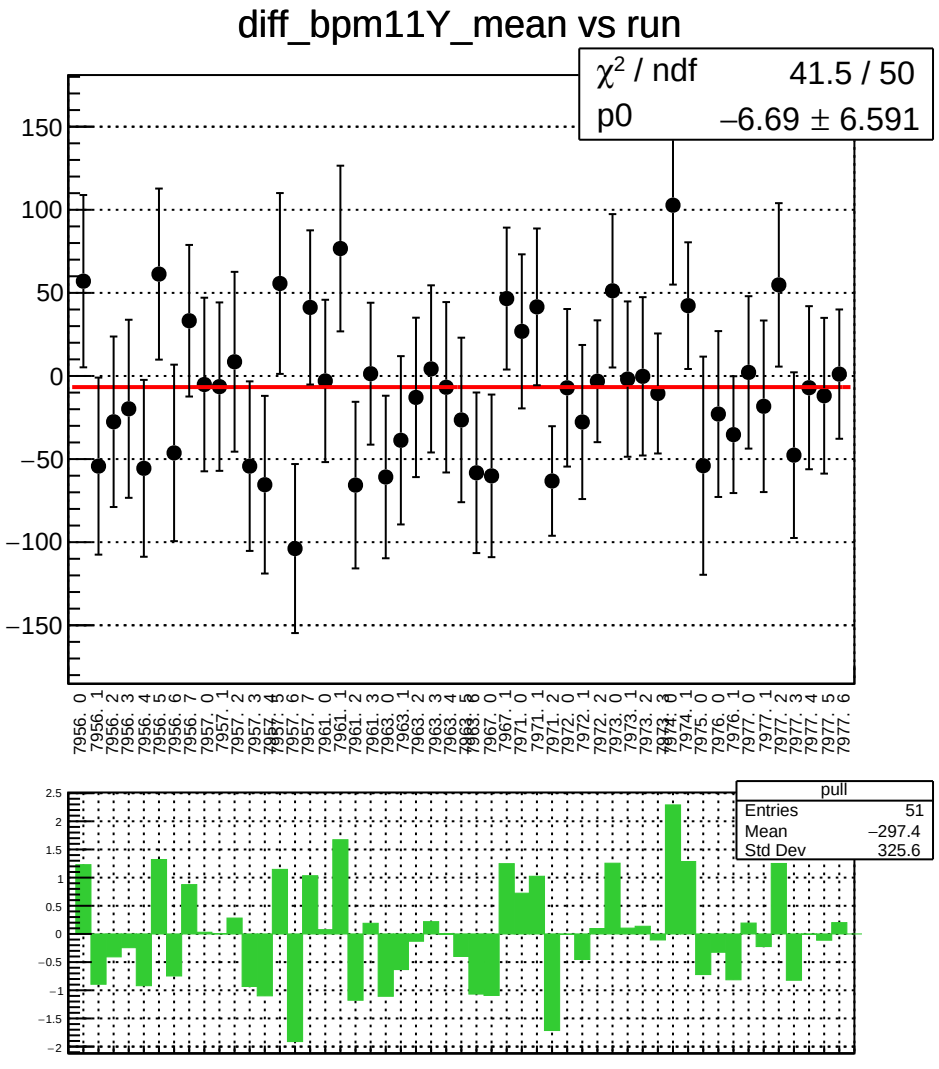
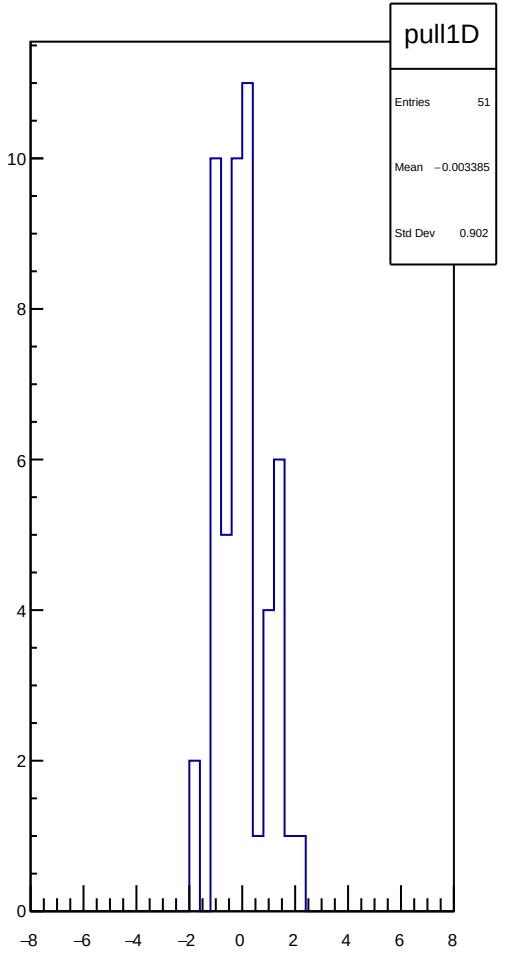
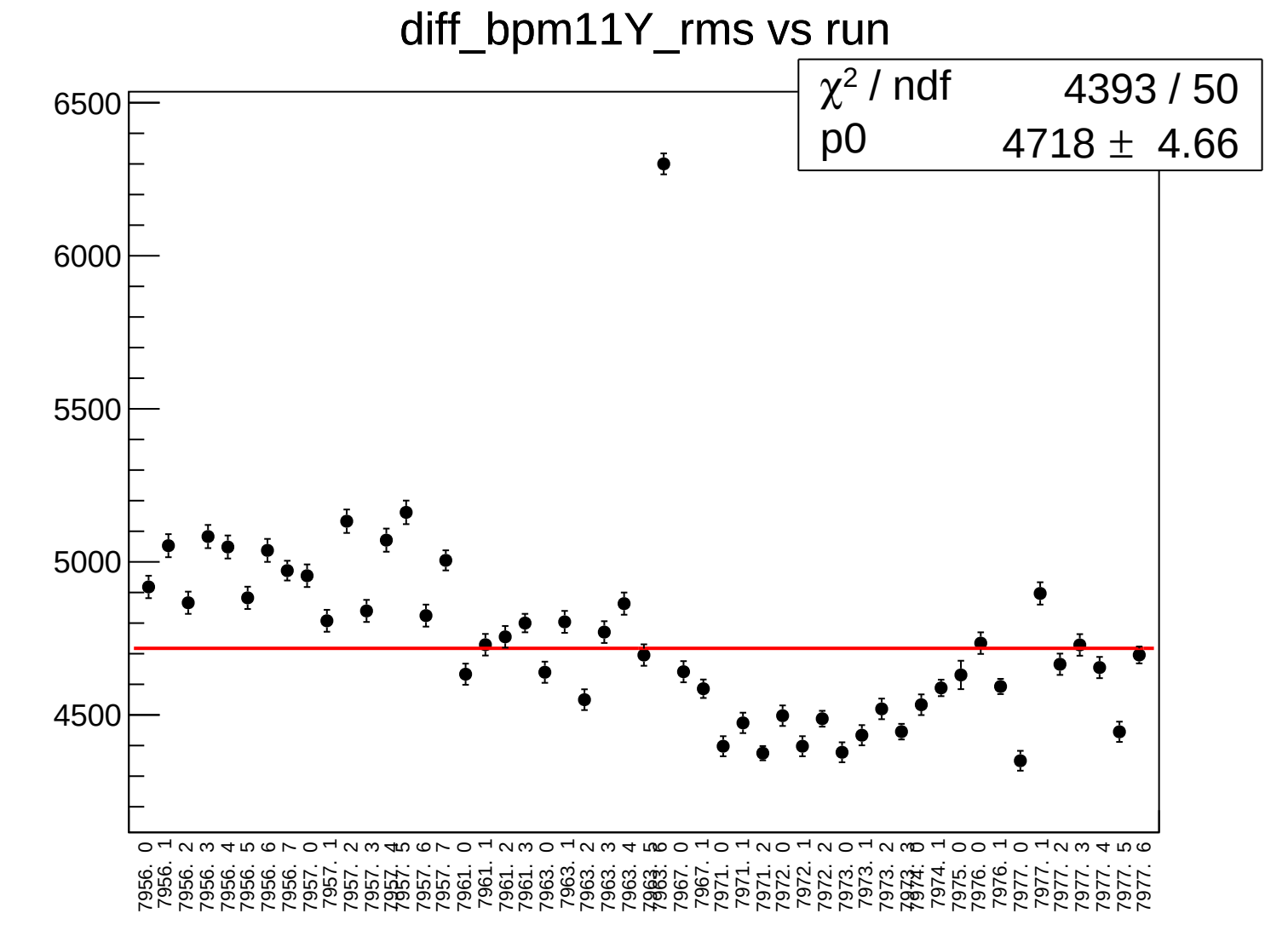
7977. 5
7977. 6


diff_bpm11Y_mean vs run
χ^2 / ndf 41.5 / 50
p0 −6.69 ± 6.591
pull
Entries 51
Mean −297.4
Std Dev 325.6


pull1D
Entries 51
Mean −0.003385
Std Dev 0.902


diff_bpm11Y_rms vs run
χ² / ndf 4393 / 50
p0 4718 ± 4.66
6500
6000
5500
5000
4500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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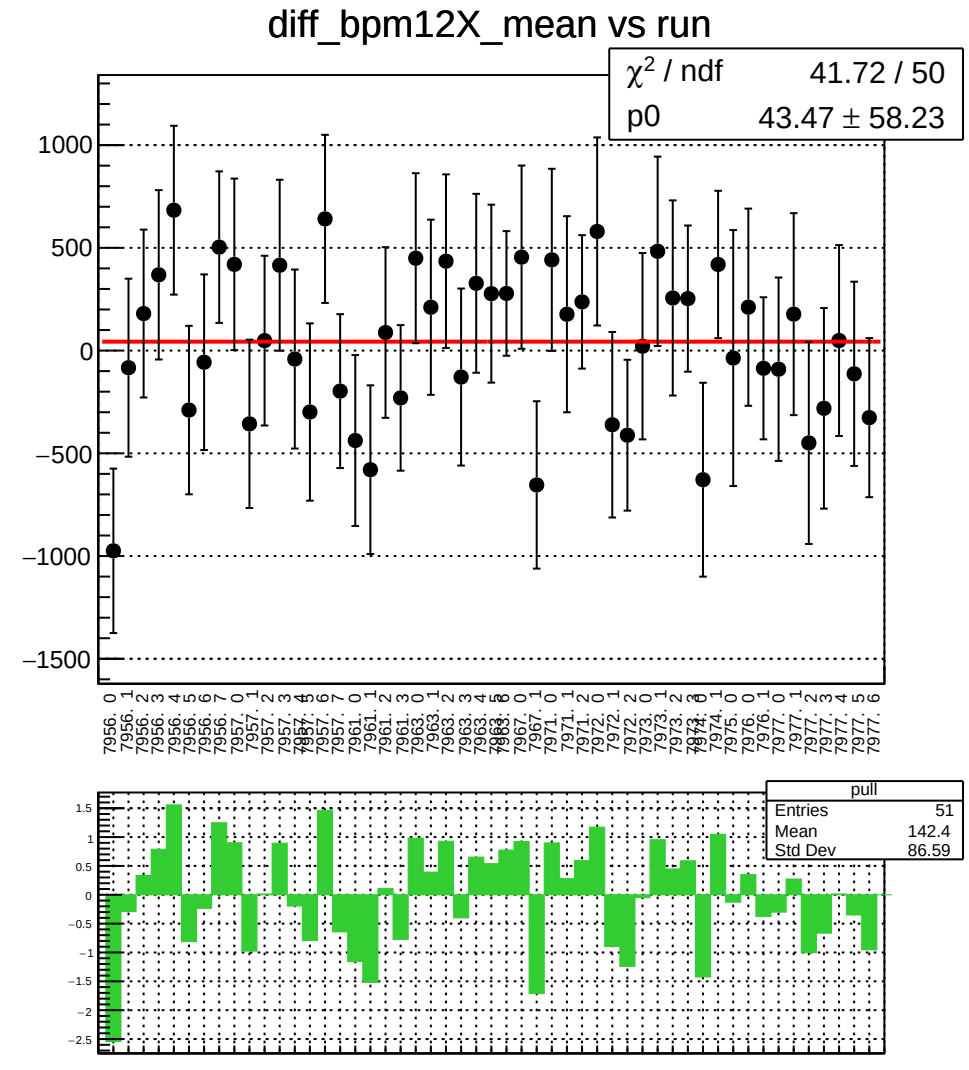
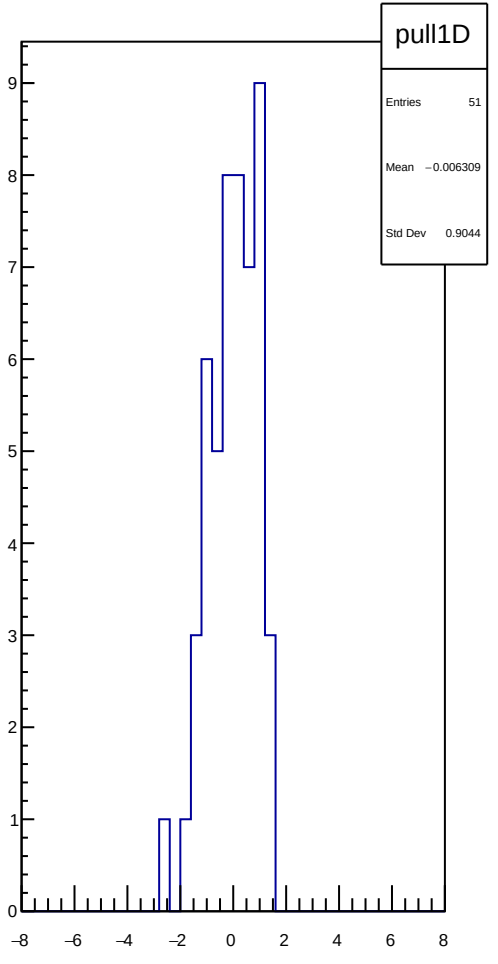
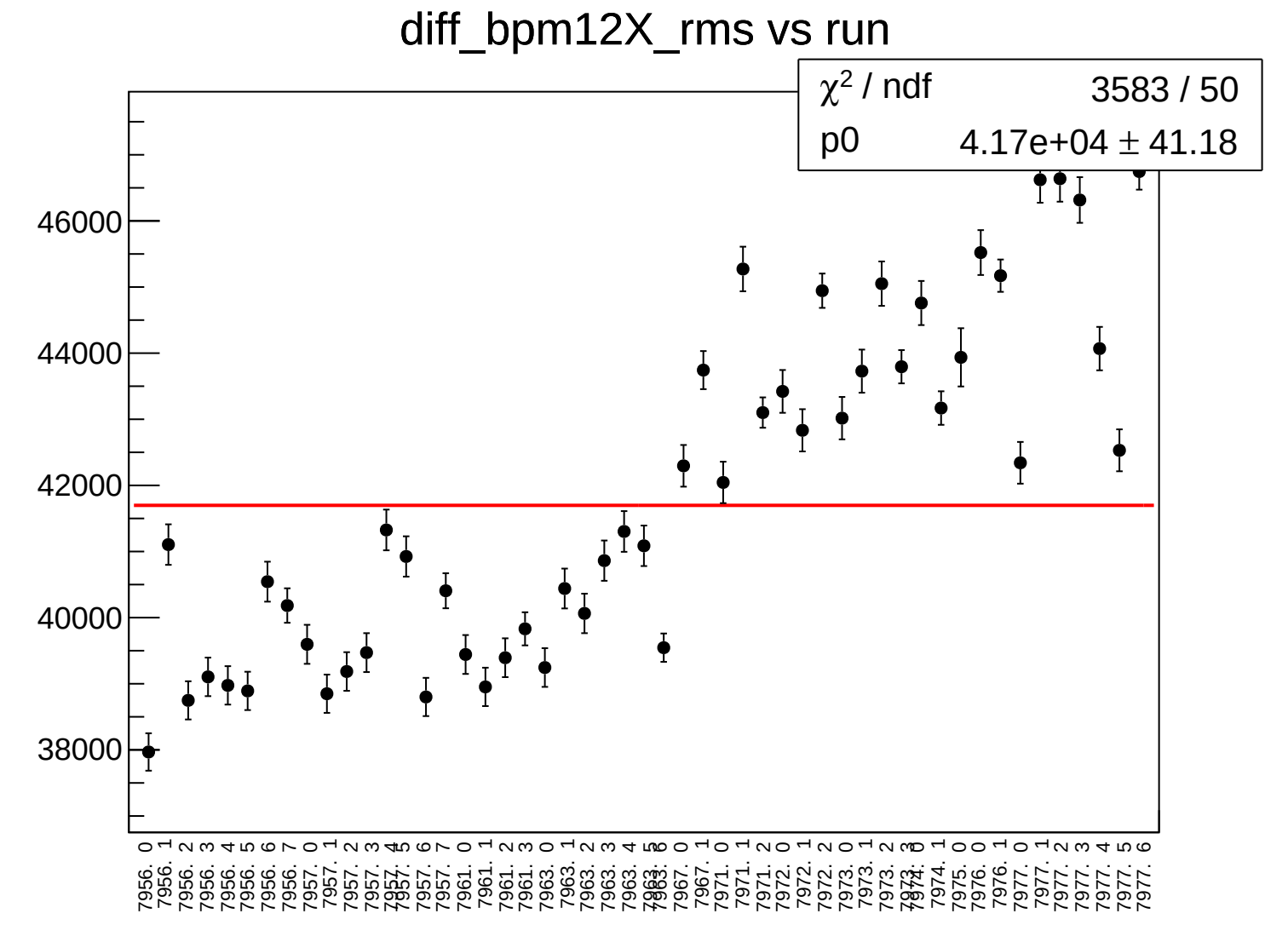
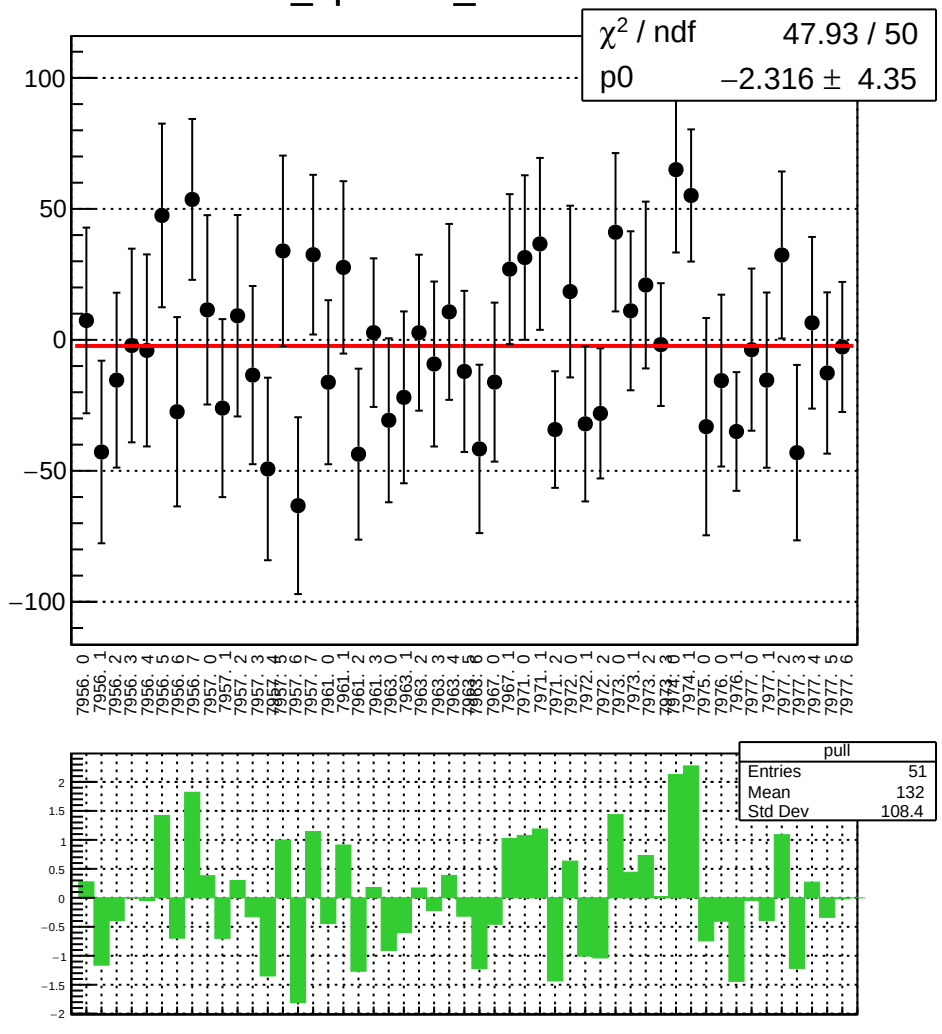
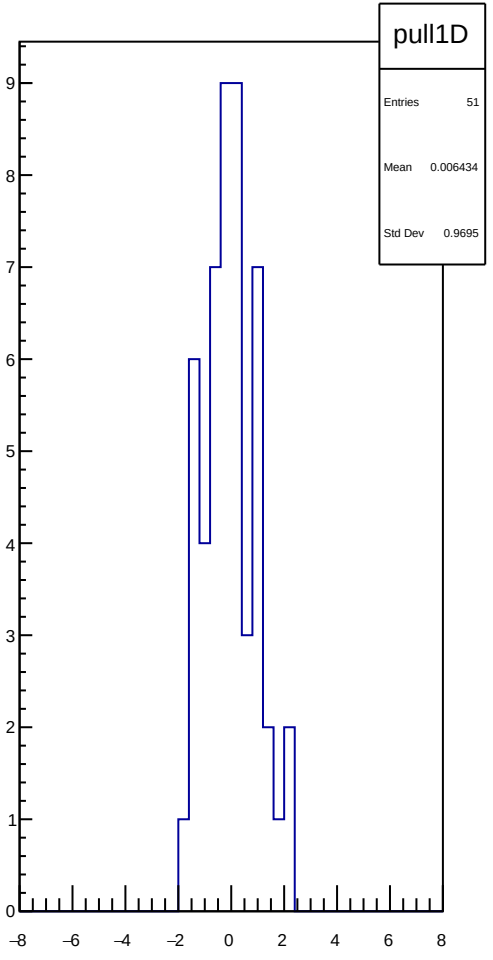
7977. 5
7977. 6

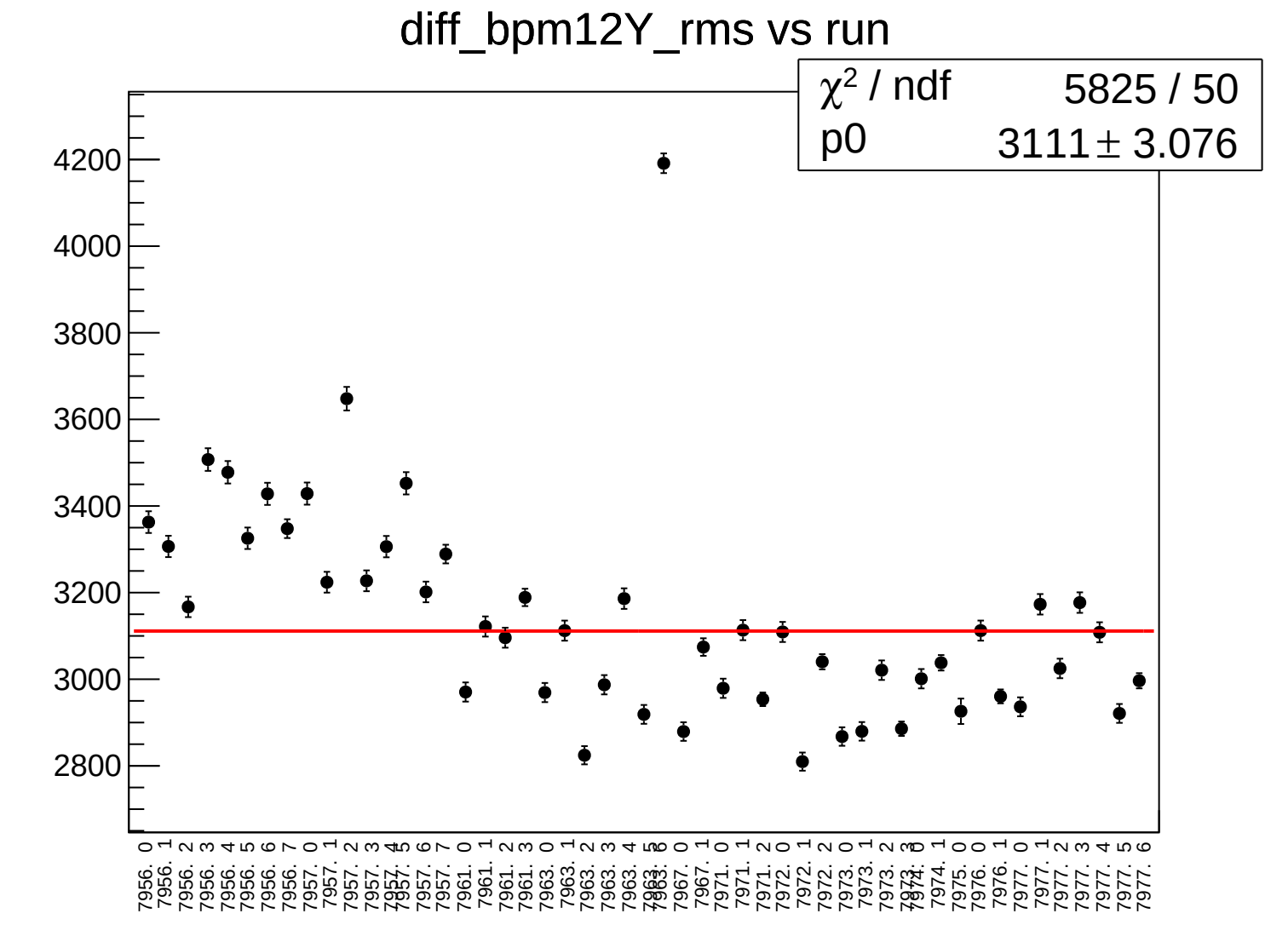

diff_bpm12X_mean vs run
χ^2 / ndf 41.72 / 50
p0 43.47 ± 58.23
1000
500
0
−500
−1000
−1500
pull
Entries 51
Mean 142.4
Std Dev 86.59
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.006309
Std Dev 0.9044
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm12X_rms vs run
χ² / ndf 3583 / 50
p0 4.17e+04 ± 41.18
46000
44000
42000
40000
38000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_bpm12Y_mean vs run
χ² / ndf 47.93 / 50
p0 −2.316 ± 4.35
pull
Entries 51
Mean 132
Std Dev 108.4


pull1D
Entries 51
Mean 0.006434
Std Dev 0.9695


diff_bpm12Y_rms vs run
χ² / ndf 5825 / 50
p0 3111 ± 3.076
4200
4000
3800
3600
3400
3200
3000
2800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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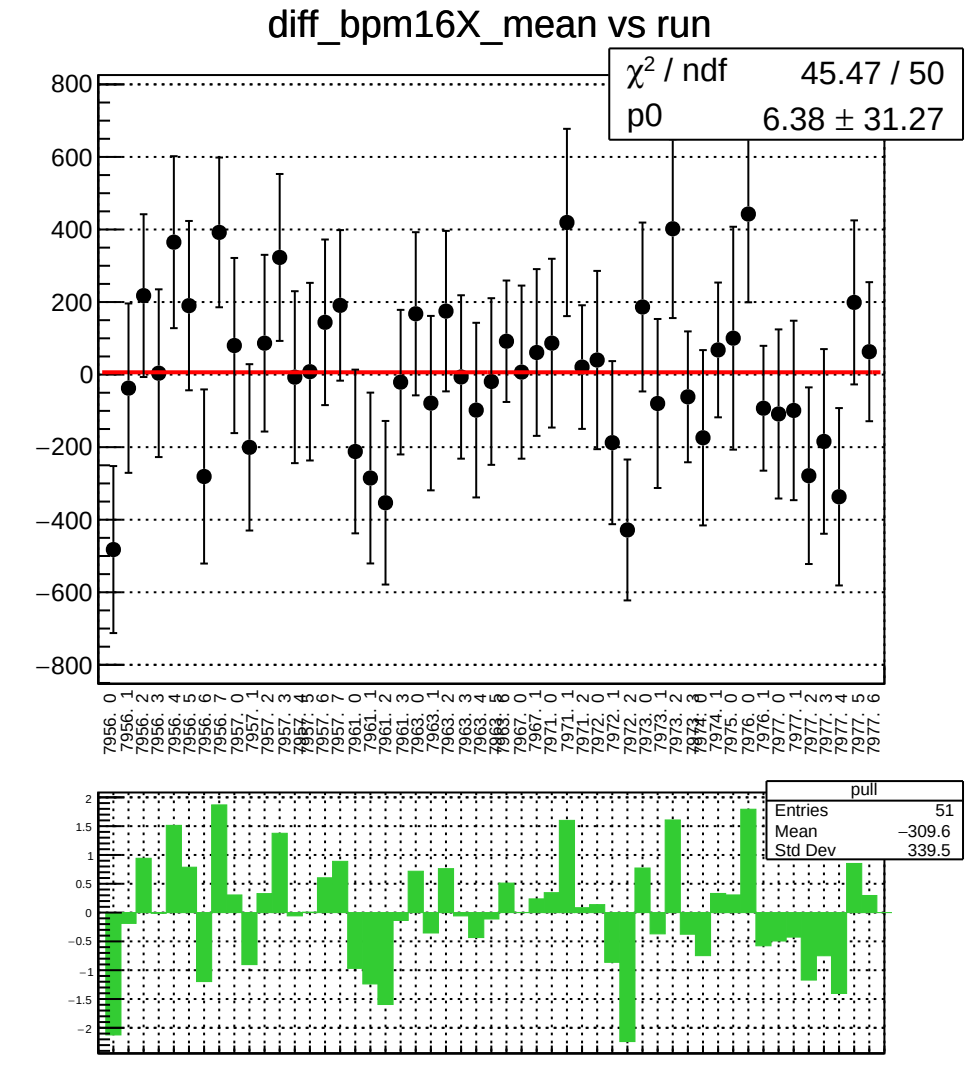
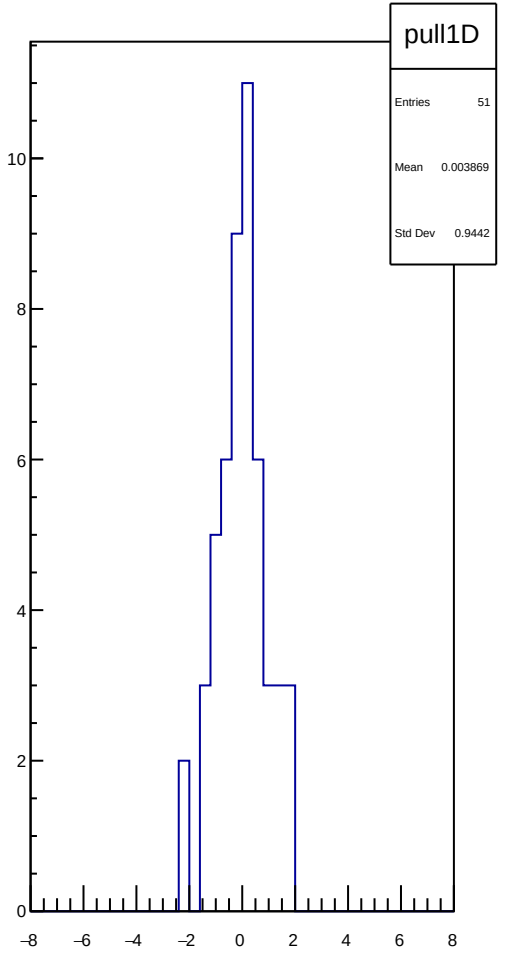
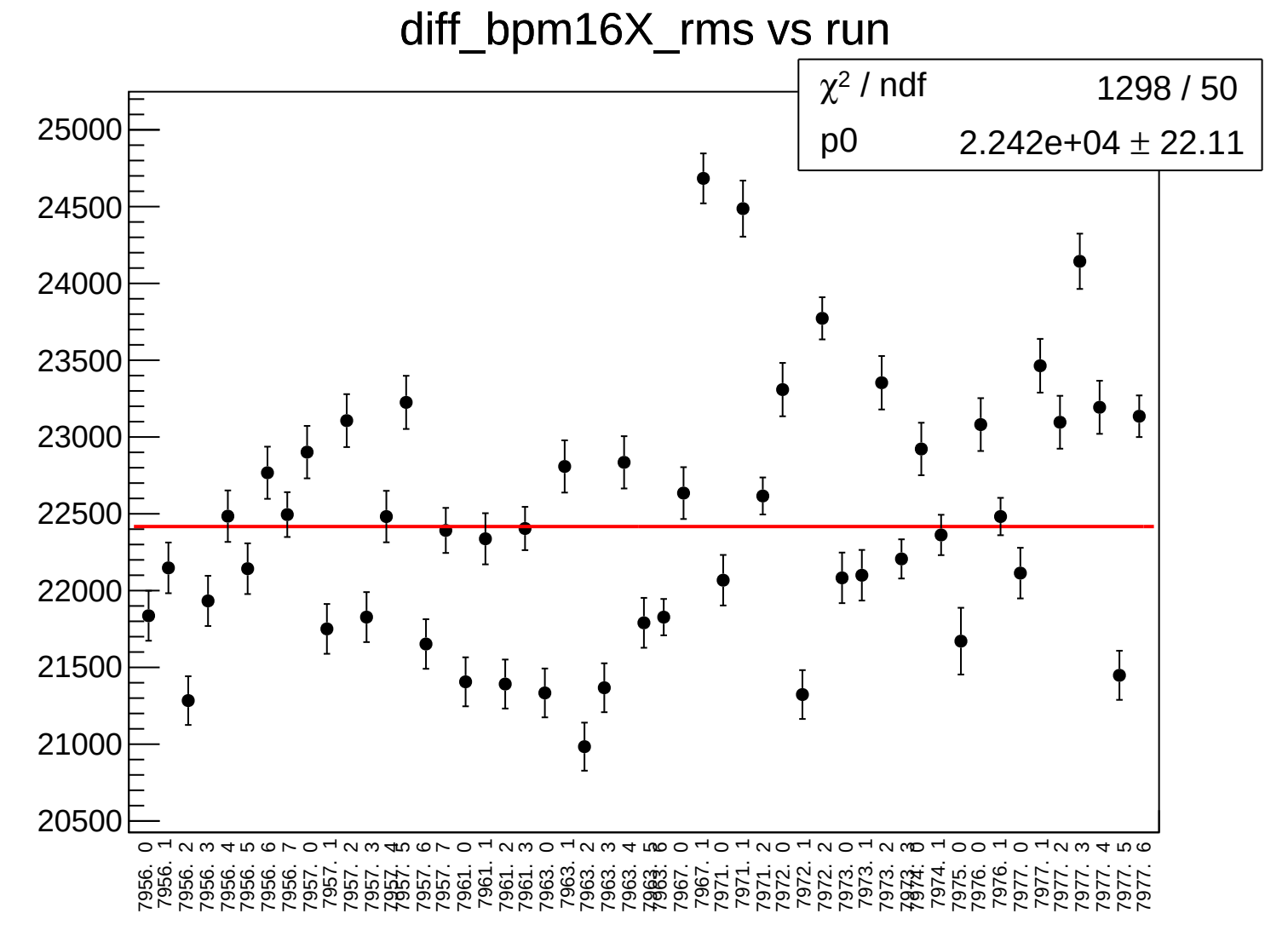
7977. 5
7977. 6


diff_bpm16X_mean vs run
χ² / ndf 45.47 / 50
p0 6.38 ± 31.27
pull
Entries 51
Mean −309.6
Std Dev 339.5


pull1D
Entries 51
Mean 0.003869
Std Dev 0.9442


diff_bpm16X_rms vs run
χ² / ndf 1298 / 50
p0 2.242e+04 ± 22.11
25000
24500
24000
23500
23000
22500
22000
21500
21000
20500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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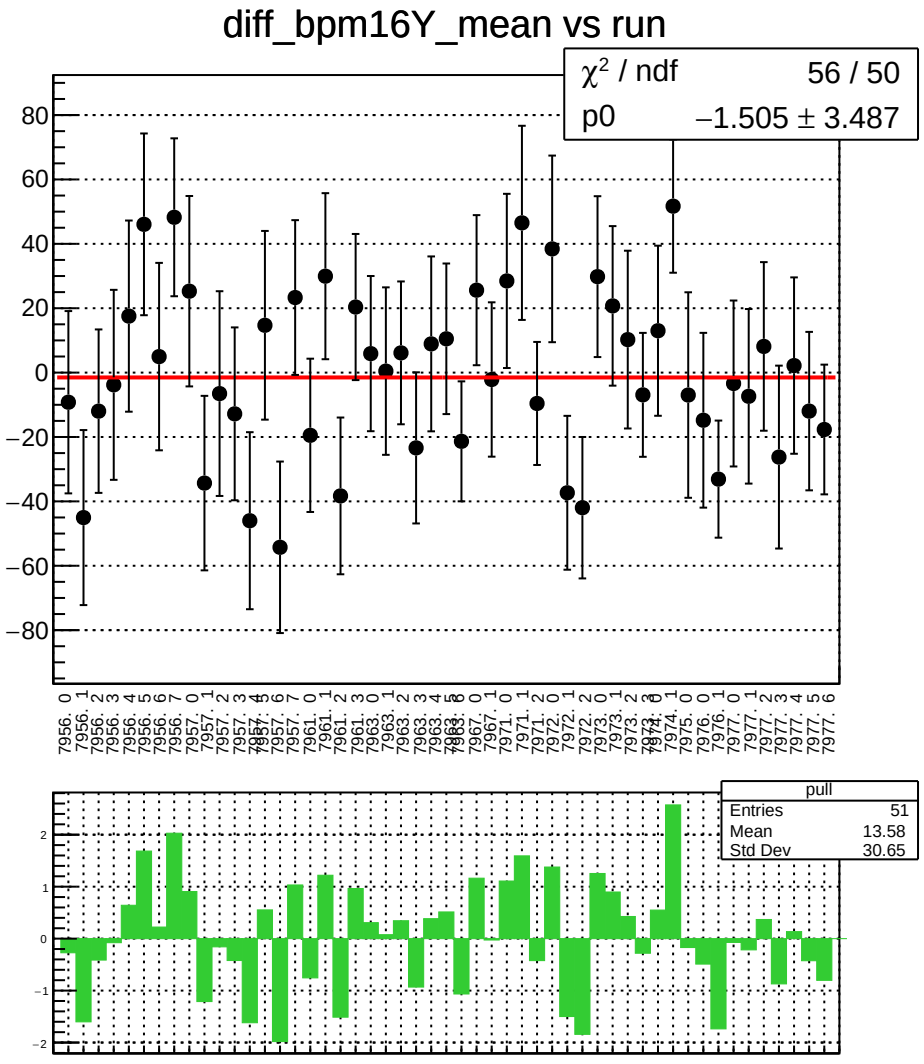
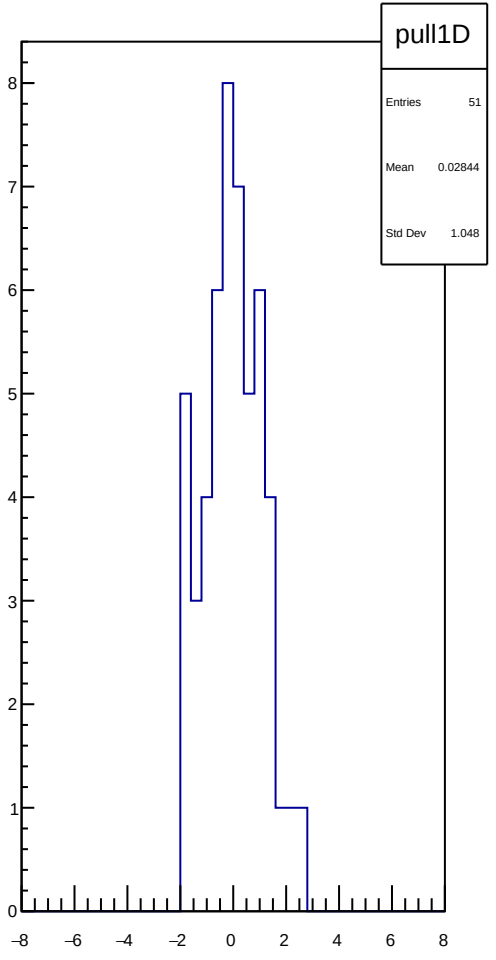
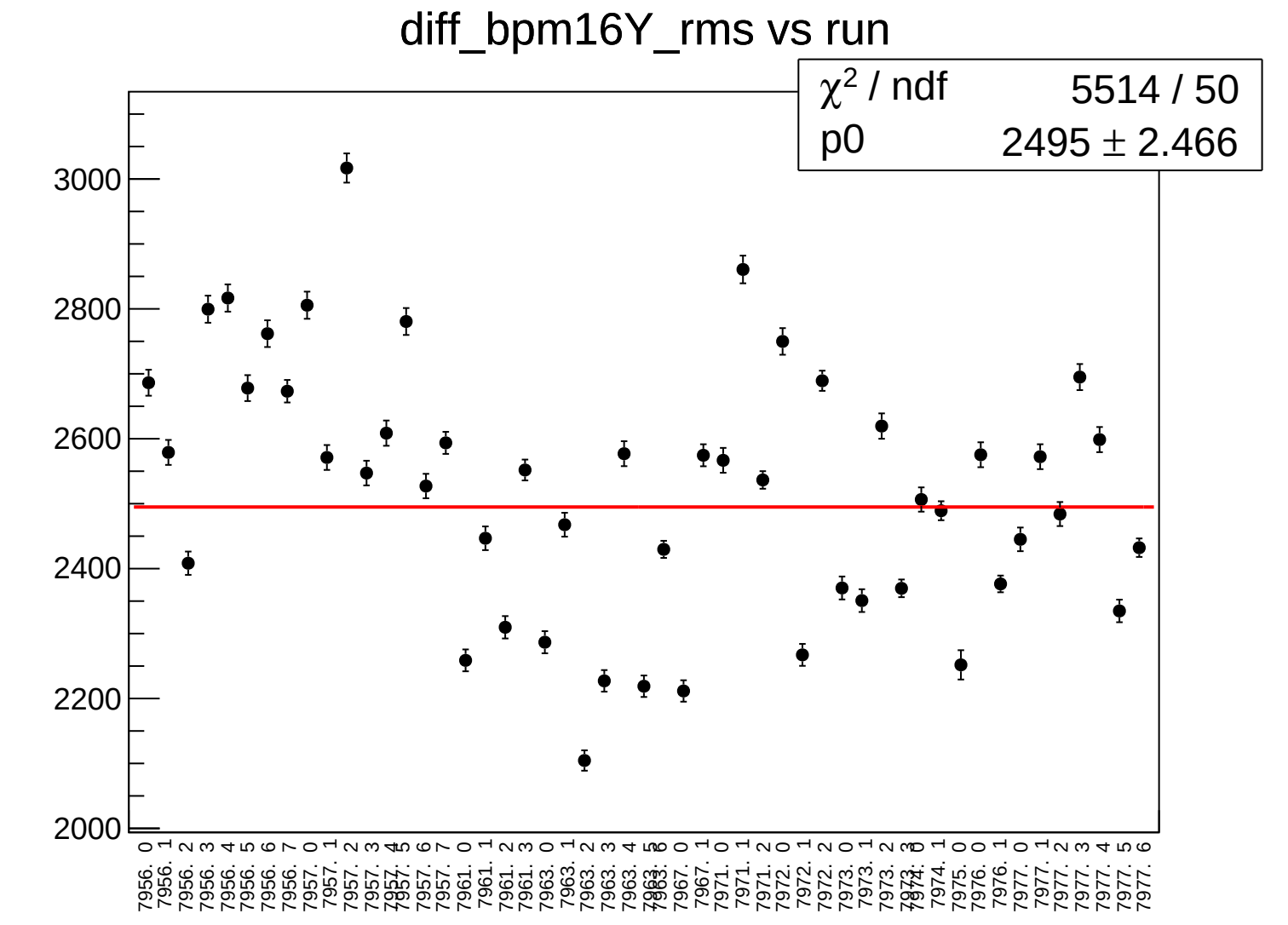
7977. 5
7977. 6


diff_bpm16Y_mean vs run
χ² / ndf 56 / 50
p0 −1.505 ± 3.487
pull
Entries 51
Mean 13.58
Std Dev 30.65


pull1D
Entries 51
Mean 0.02844
Std Dev 1.048


diff_bpm16Y_rms vs run
χ² / ndf 5514 / 50
p0 2495 ± 2.466
3000
2800
2600
2400
2200
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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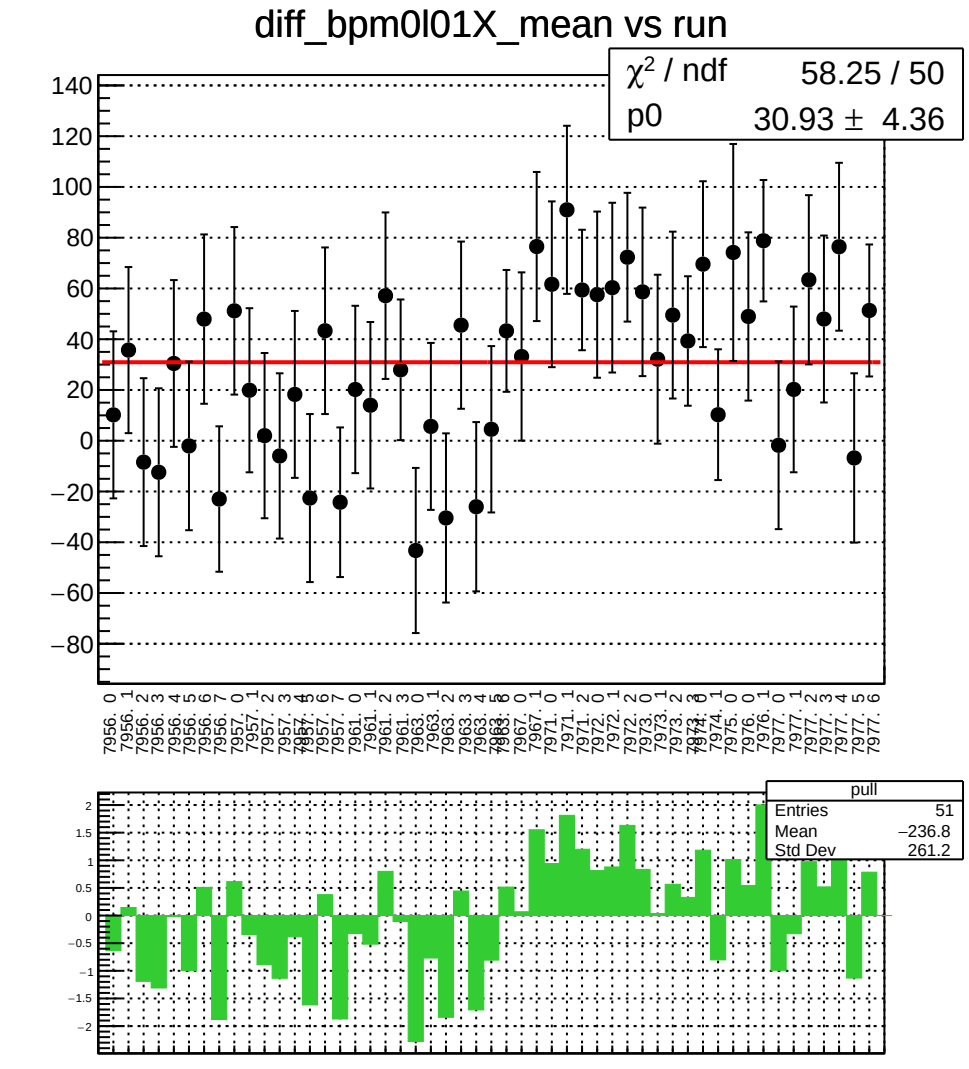
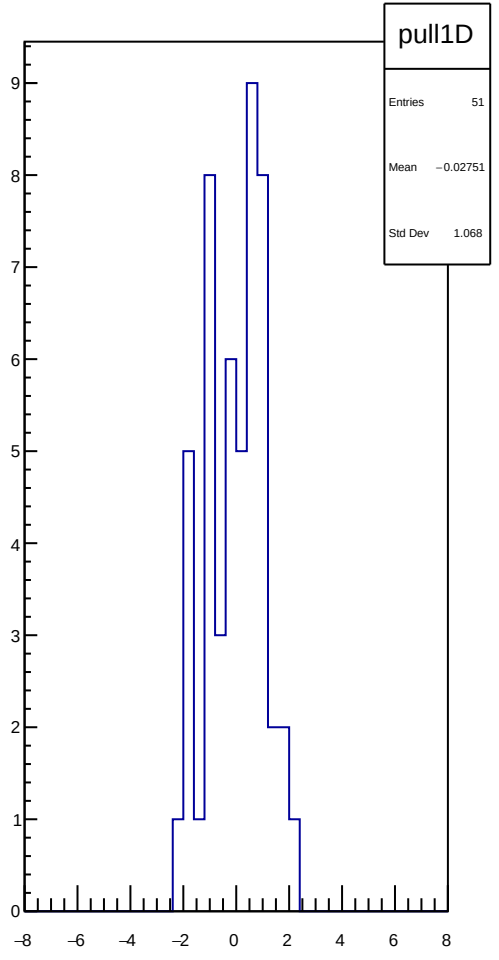
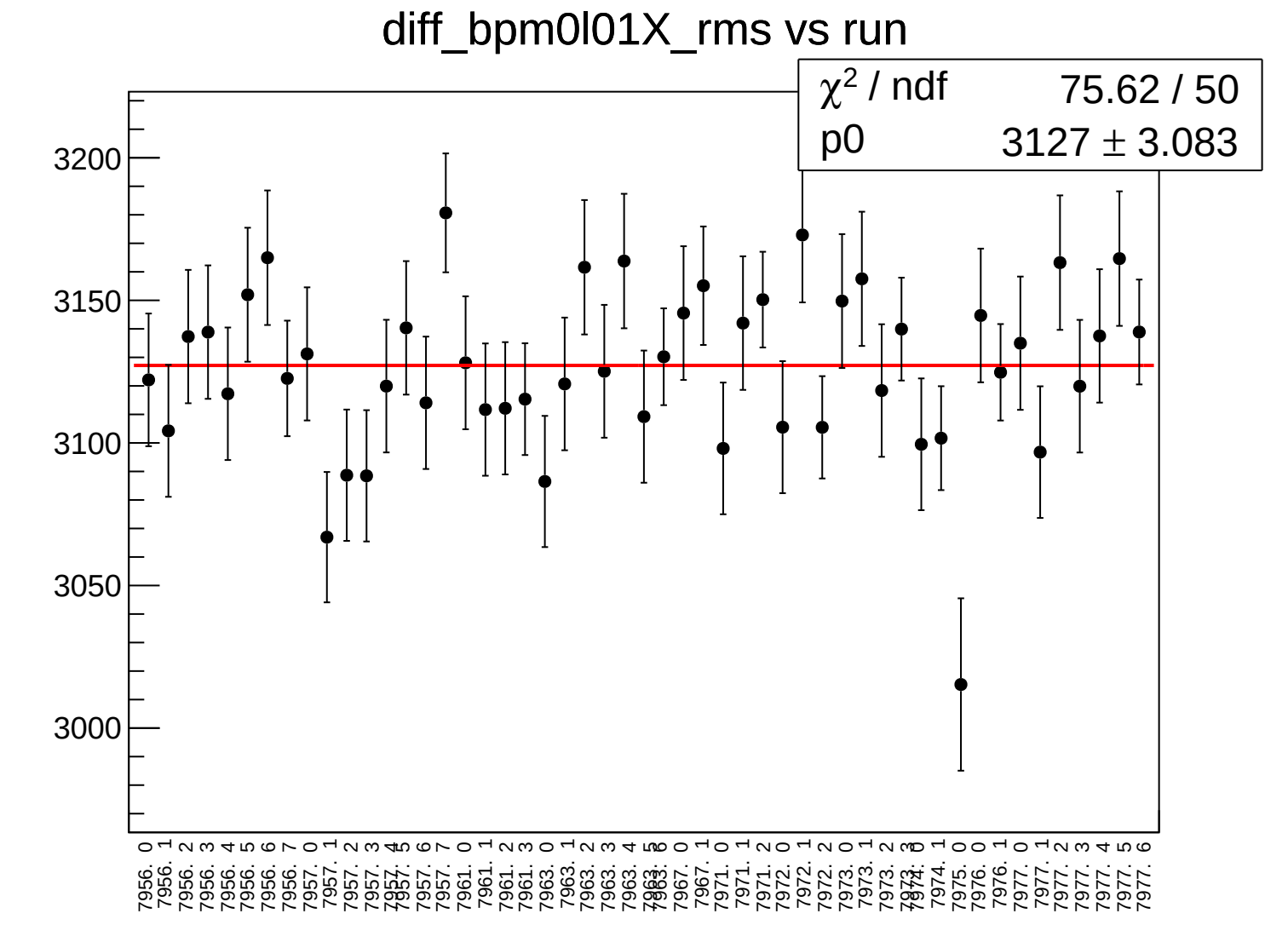
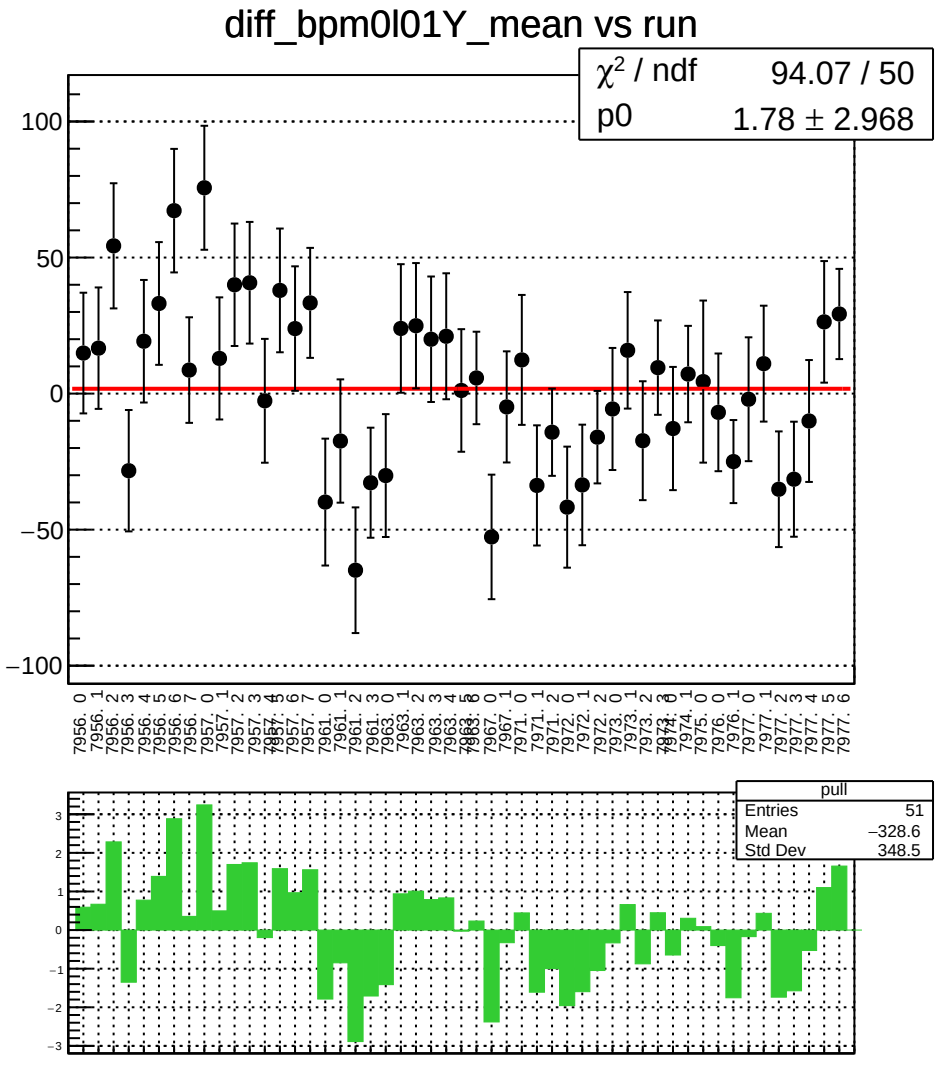
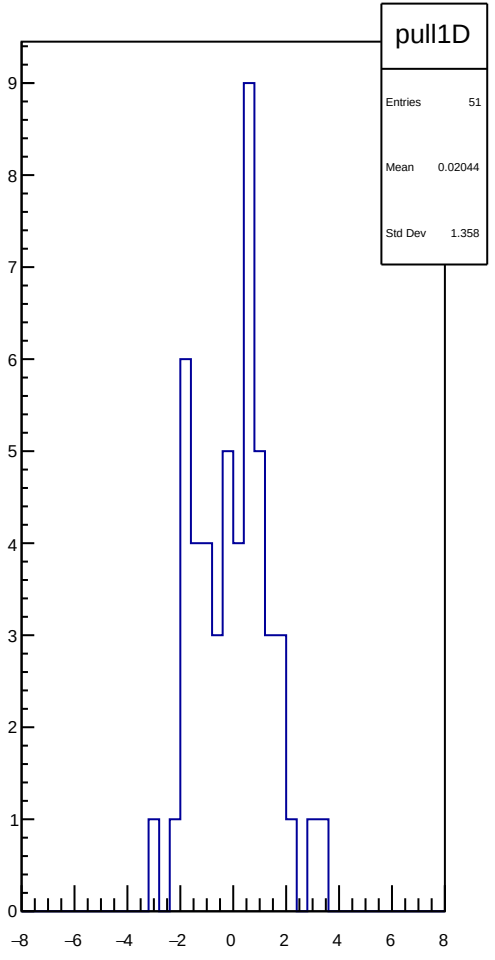
7977. 6

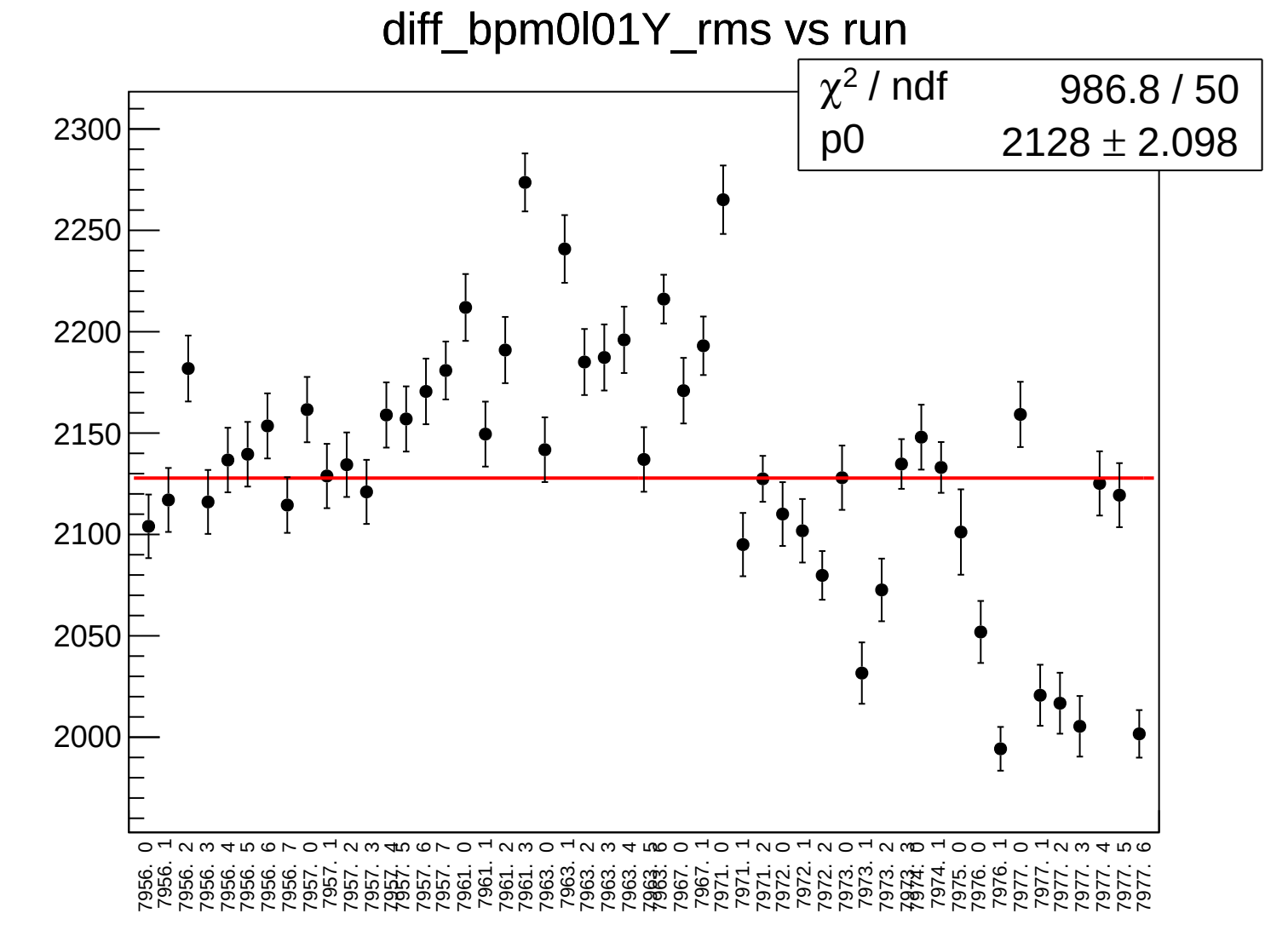

diff_bpm0l01X_mean vs run
χ² / ndf 58.25 / 50
p0 30.93 ± 4.36
pull
Entries 51
Mean −236.8
Std Dev 261.2


pull1D
Entries 51
Mean −0.02751
Std Dev 1.068


diff_bpm0l01X_rms vs run
χ² / ndf 75.62 / 50
p0 3127 ± 3.083
3200
3150
3100
3050
3000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_bpm0l01Y_mean vs run
χ² / ndf 94.07 / 50
p0 1.78 ± 2.968
pull
Entries 51
Mean −328.6
Std Dev 348.5


pull1D
Entries 51
Mean 0.02044
Std Dev 1.358


diff_bpm0l01Y_rms vs run
χ² / ndf 986.8 / 50
p0 2128 ± 2.098
2300
2250
2200
2150
2100
2050
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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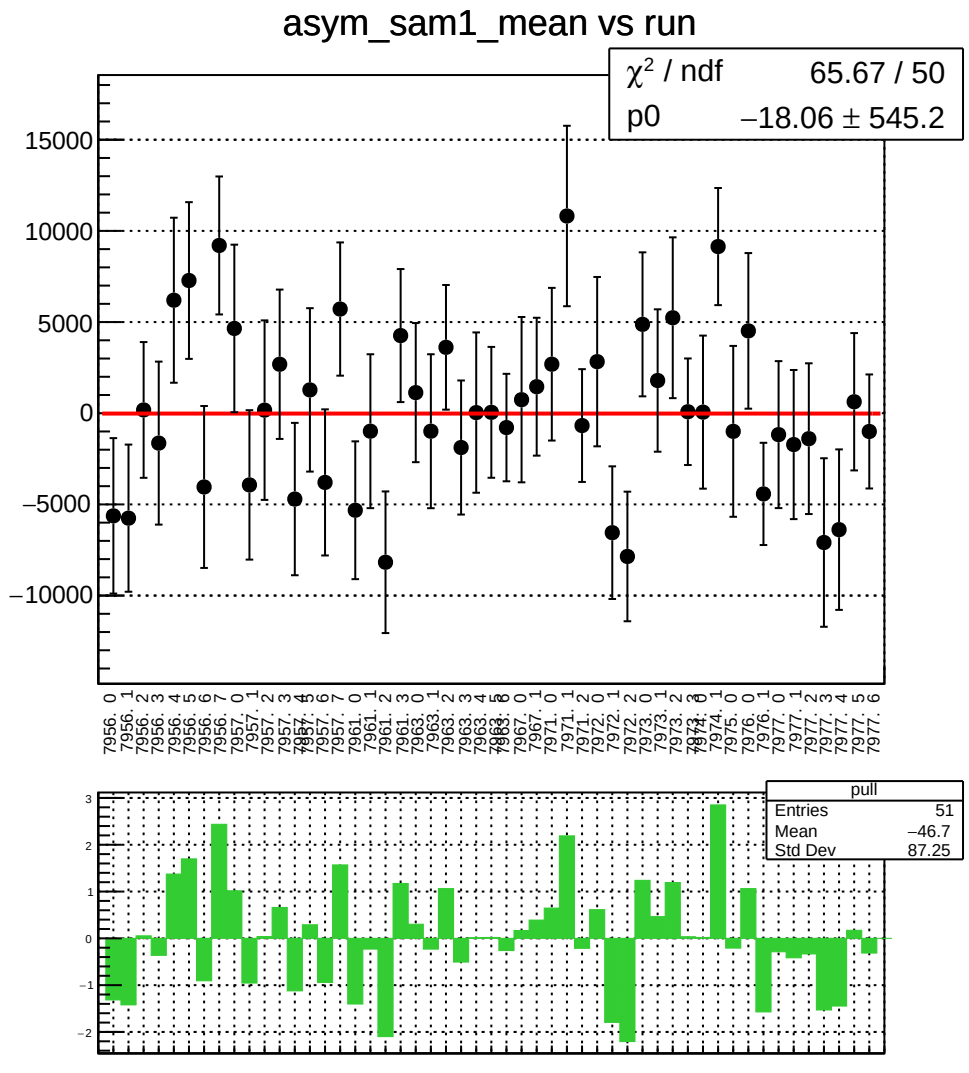
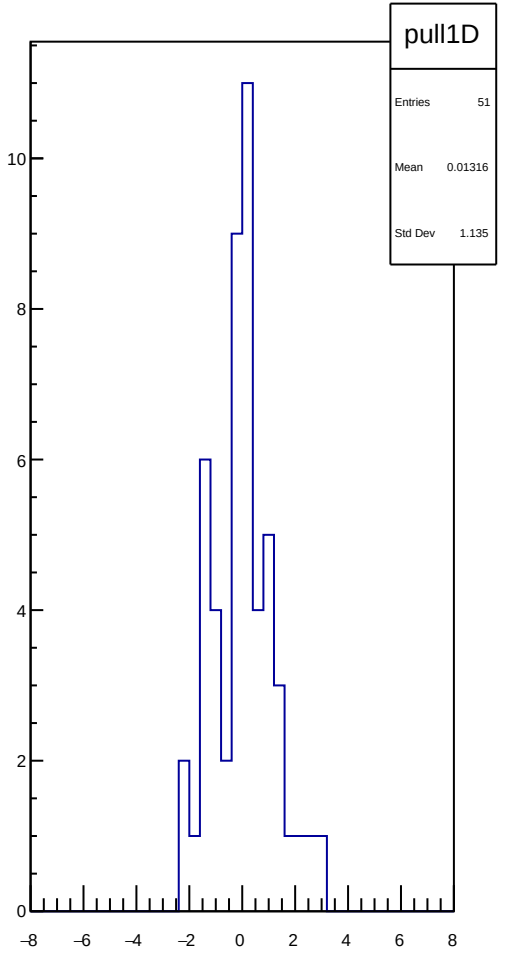
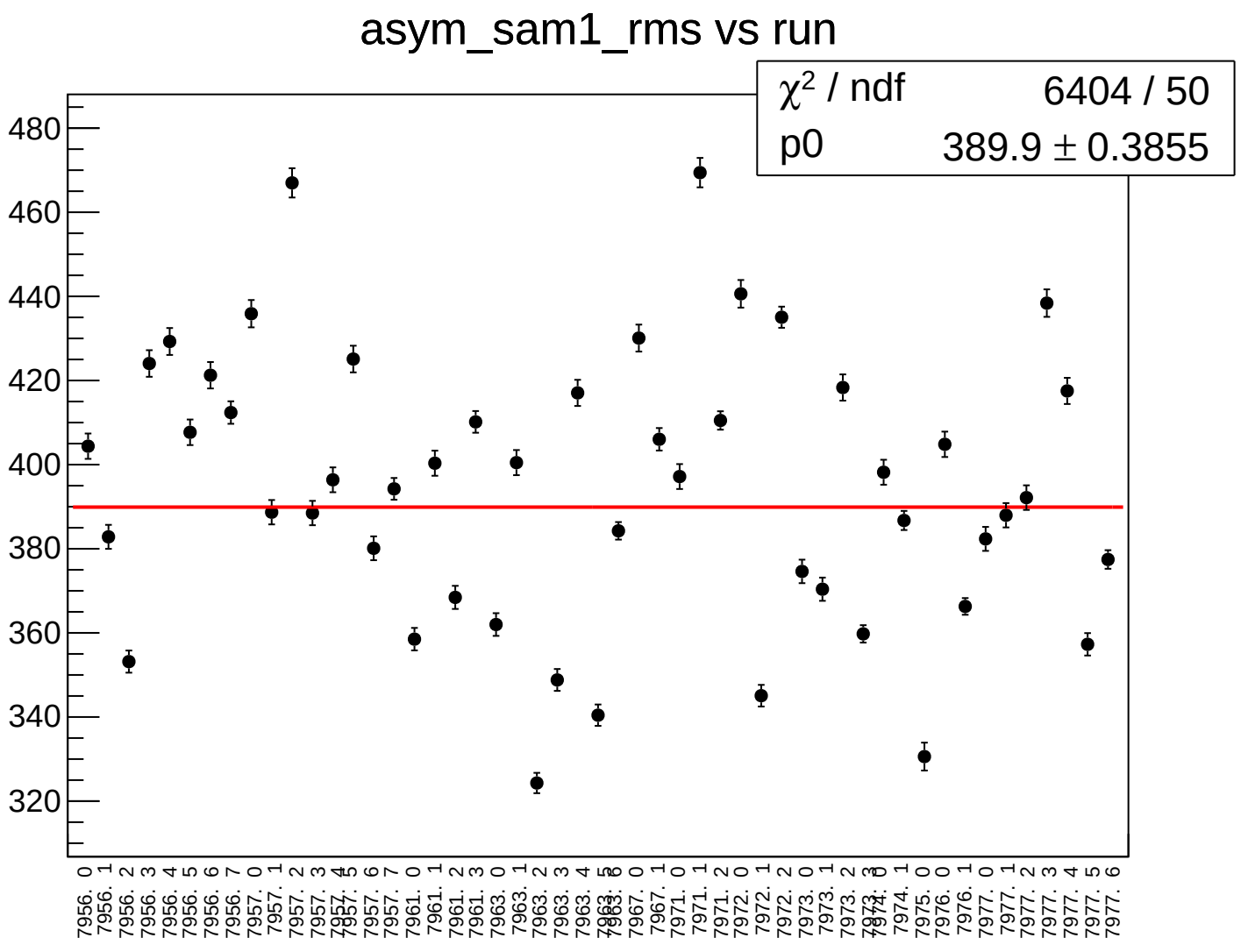
7977. 5
7977. 6


asym_sam1_mean vs run
χ² / ndf 65.67 / 50
p0 −18.06 ± 545.2
15000
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −46.7
Std Dev 87.25
3
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.01316
Std Dev 1.135
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_rms vs run
χ² / ndf 6404 / 50
p0 389.9 ± 0.3855
480
460
440
420
400
380
360
340
320
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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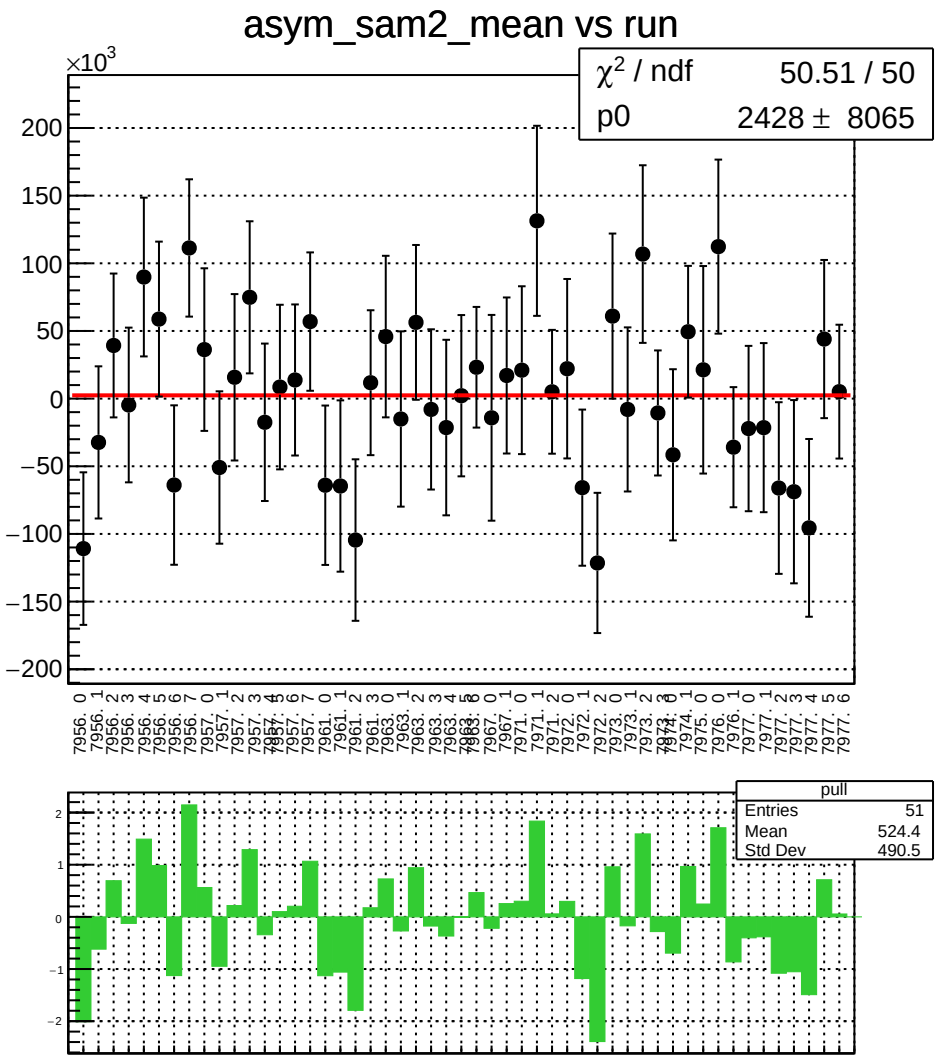
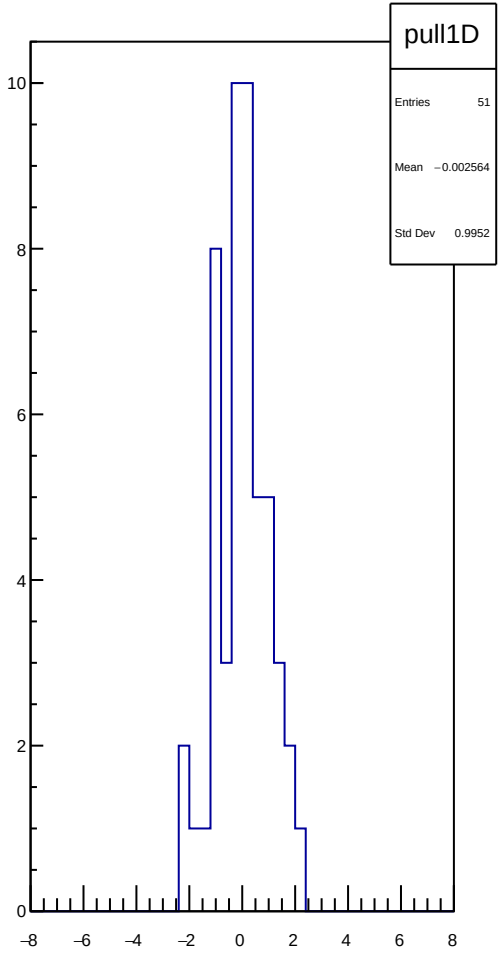
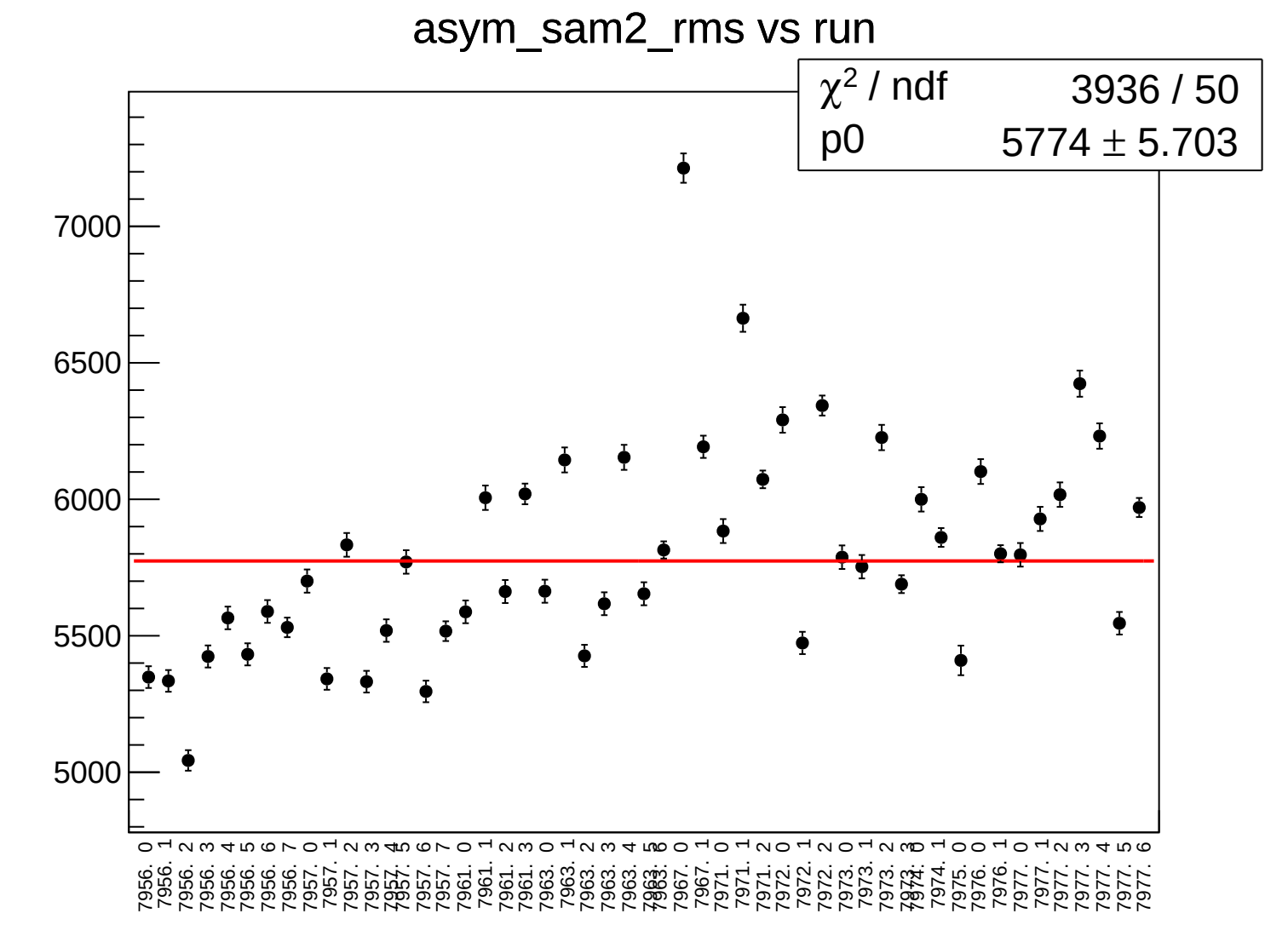
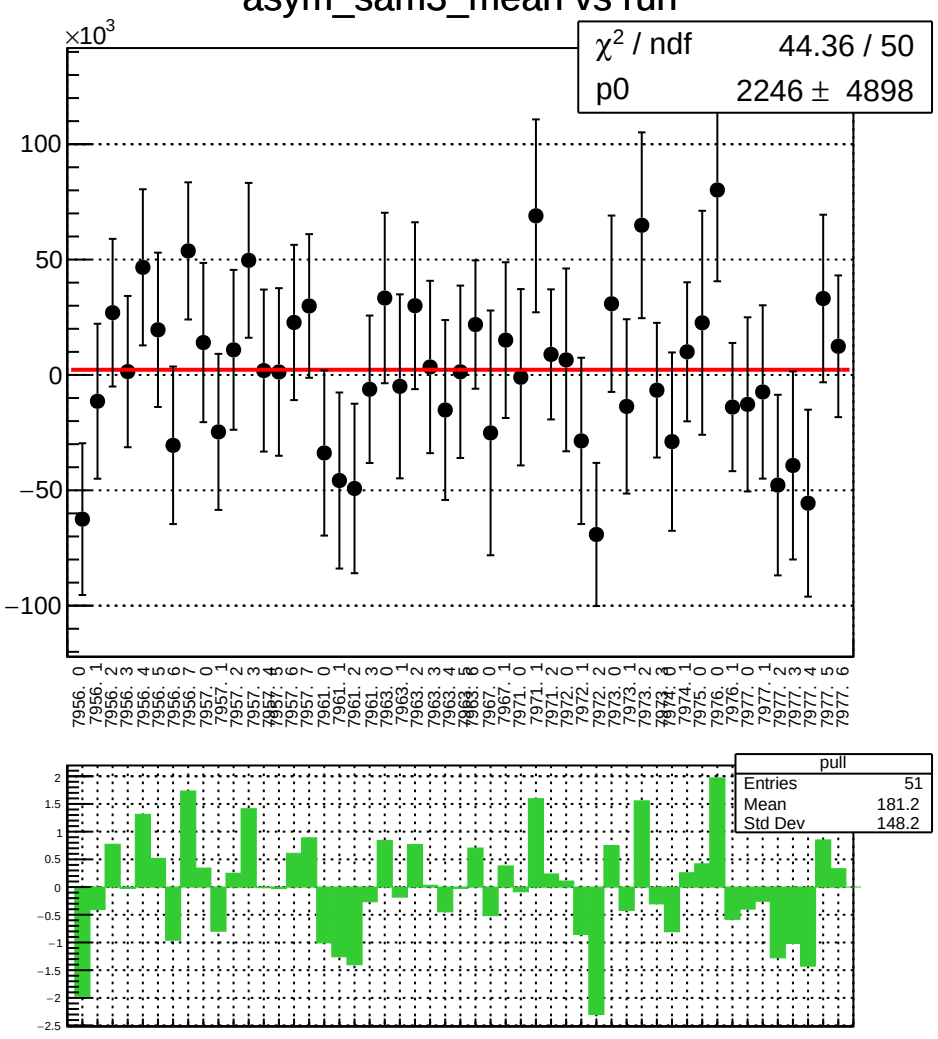
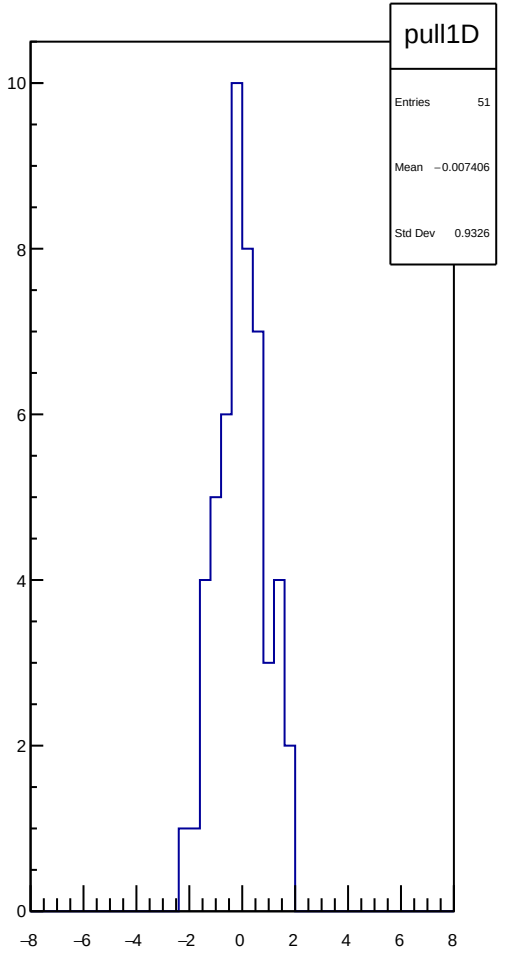
7977. 5
7977. 6

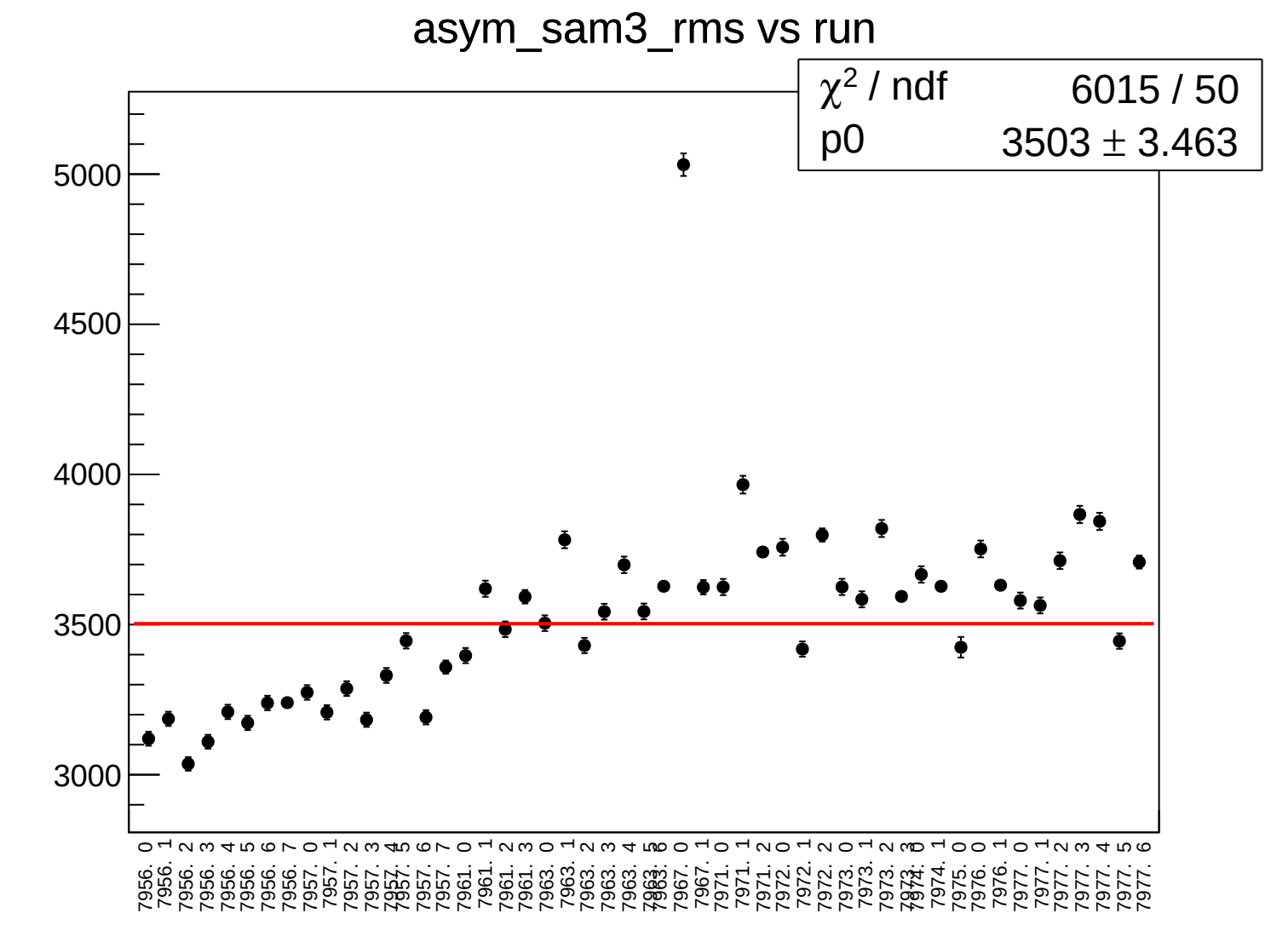

asym_sam2_mean vs run
×10^3
χ² / ndf 50.51 / 50
p0 2428 ± 8065
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean 524.4
Std Dev 490.5
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.002564
Std Dev 0.9952
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam2_rms vs run
χ^2 / ndf 3936 / 50
p0 5774 ± 5.703
7000
6500
6000
5500
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam3_mean vs run
×10^3
χ² / ndf 44.36 / 50
p0 2246 ± 4898
100
50
0
−50
−100
pull
Entries 51
Mean 181.2
Std Dev 148.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.007406
Std Dev 0.9326
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam3_rms vs run
χ^2 / ndf 6015 / 50
p0 3503 ± 3.463
5000
4500
4000
3500
3000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
7977. 0
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7977. 3
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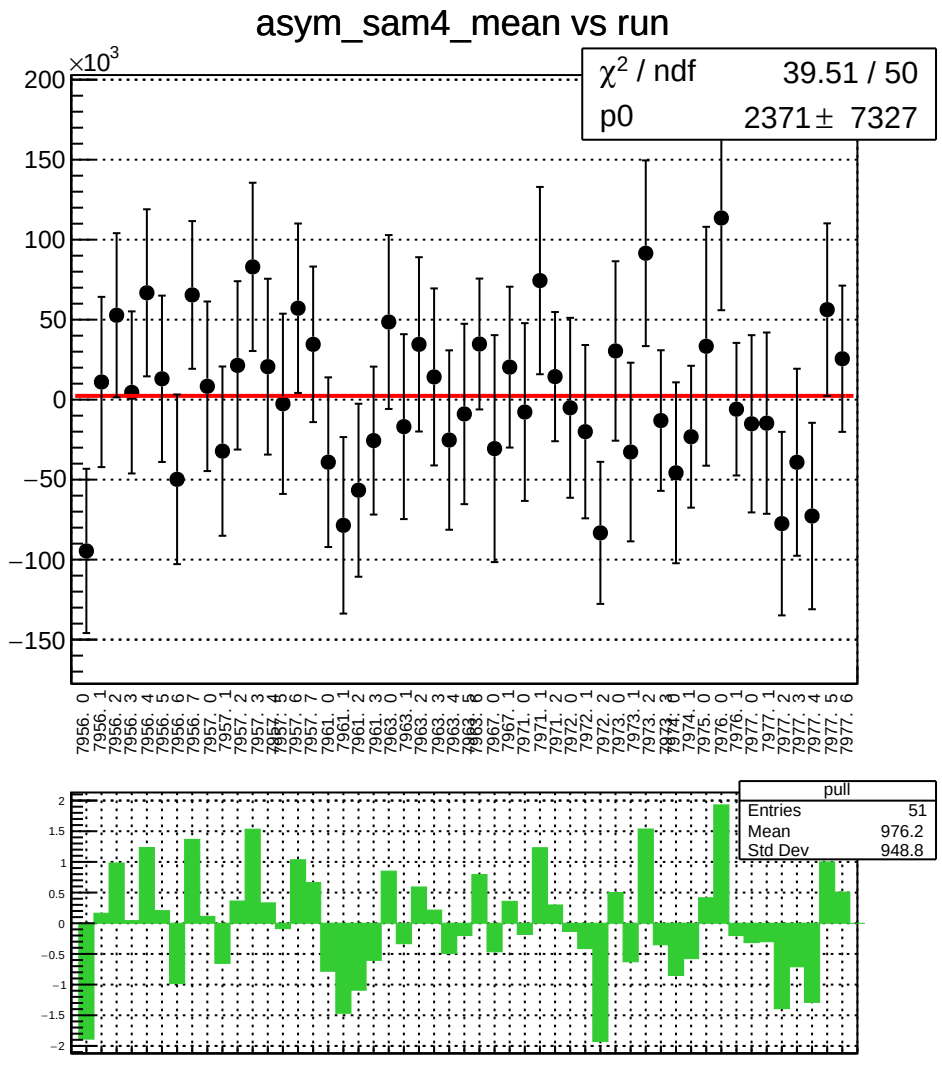
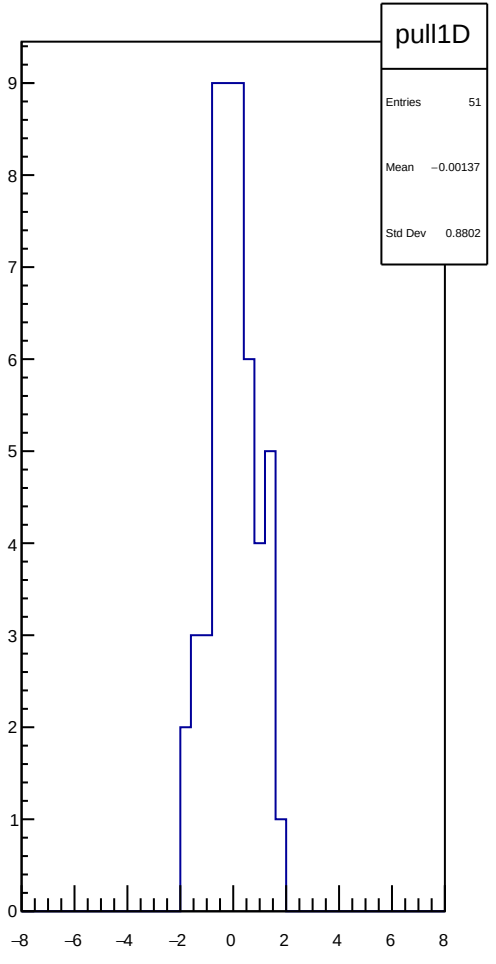
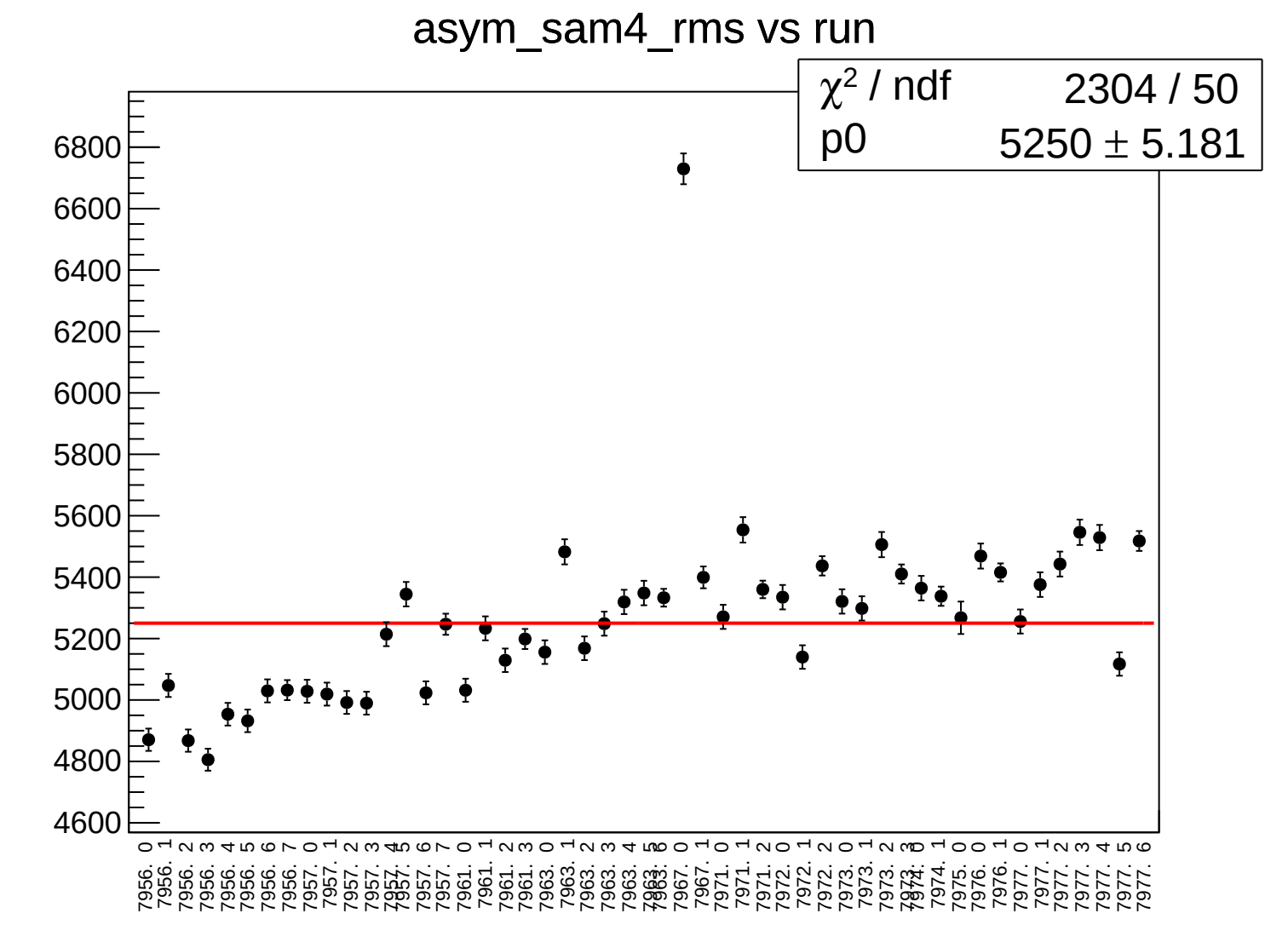
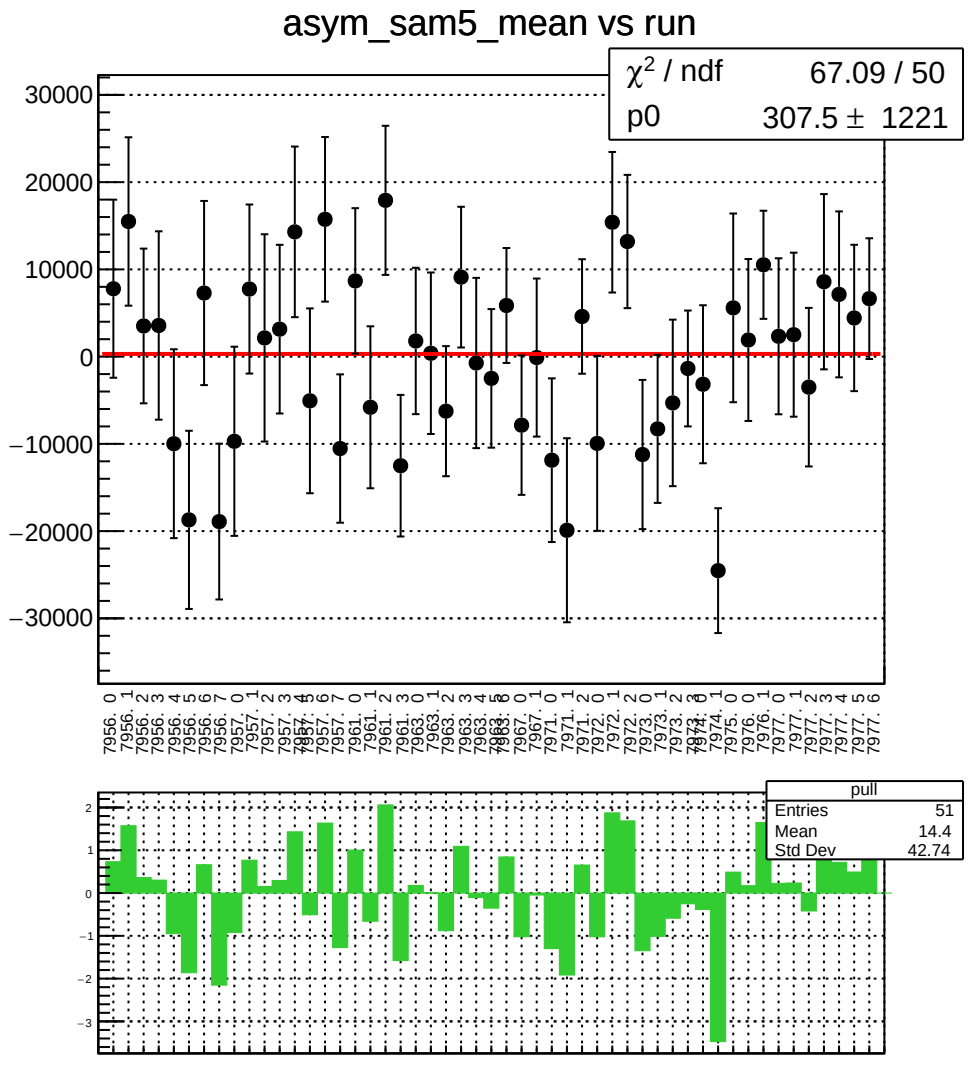
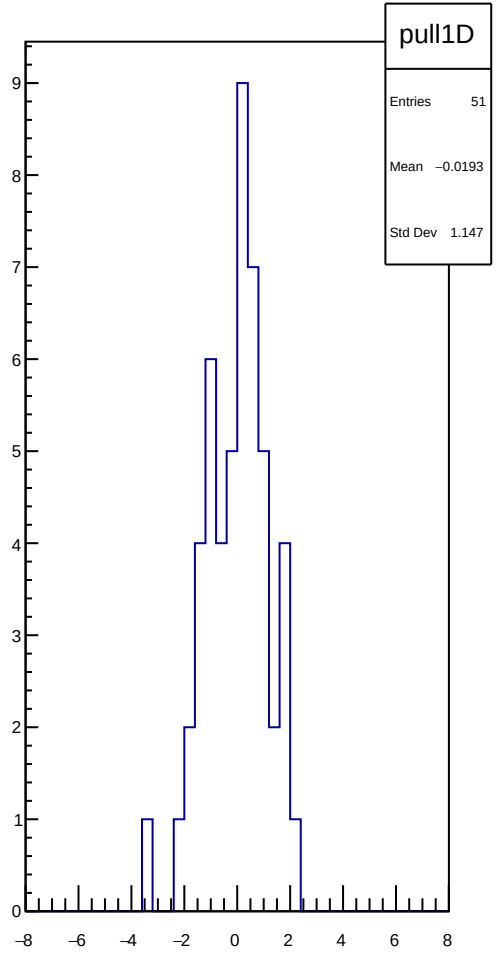
7977. 5
7977. 6

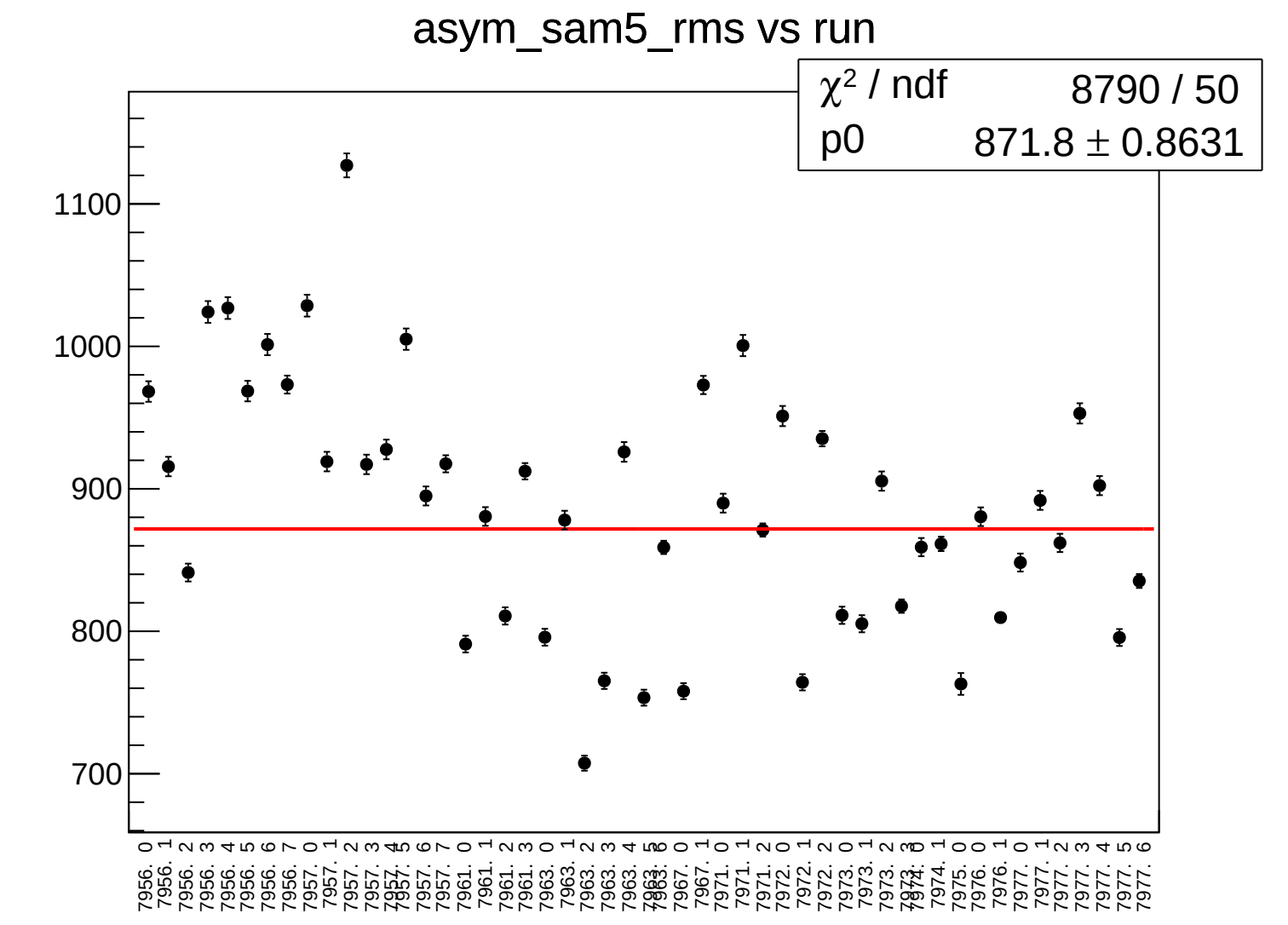

asym_sam4_mean vs run
×10^3
χ^2 / ndf 39.51 / 50
p0 2371 ± 7327
pull
Entries 51
Mean 976.2
Std Dev 948.8


pull1D
Entries 51
Mean −0.00137
Std Dev 0.8802


asym_sam4_rms vs run
χ² / ndf 2304 / 50
p0 5250 ± 5.181
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam5_mean vs run
χ² / ndf 67.09 / 50
p0 307.5 ± 1221
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 14.4
Std Dev 42.74
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.0193
Std Dev 1.147
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam5_rms vs run
χ² / ndf 8790 / 50
p0 871.8 ± 0.8631
1100
1000
900
800
700
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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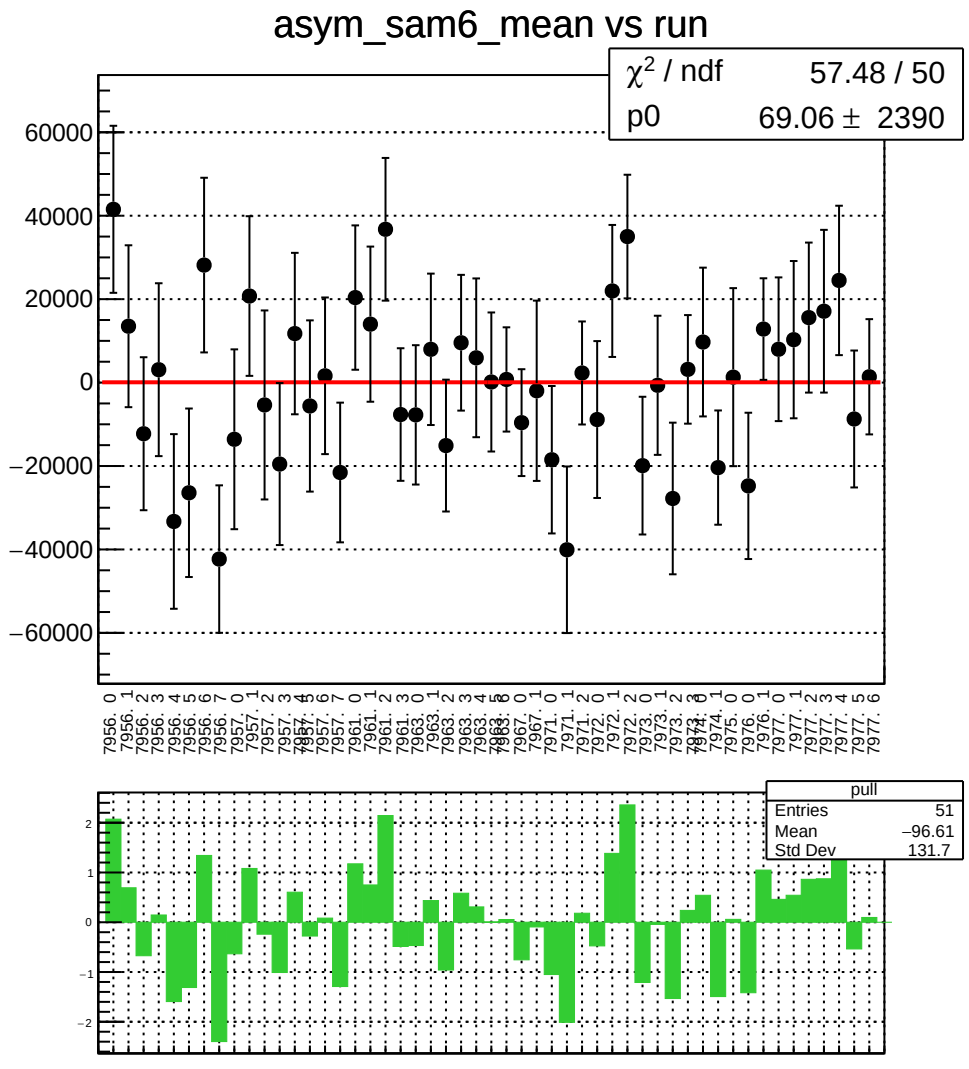
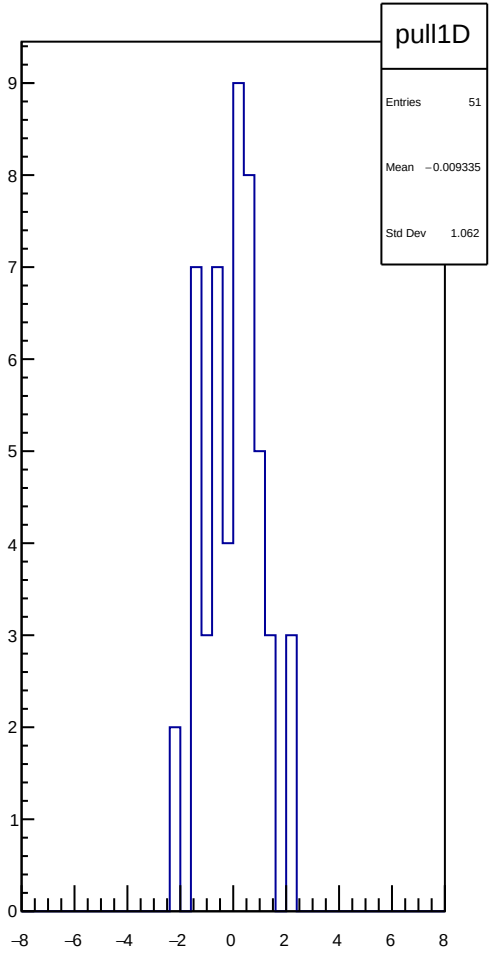
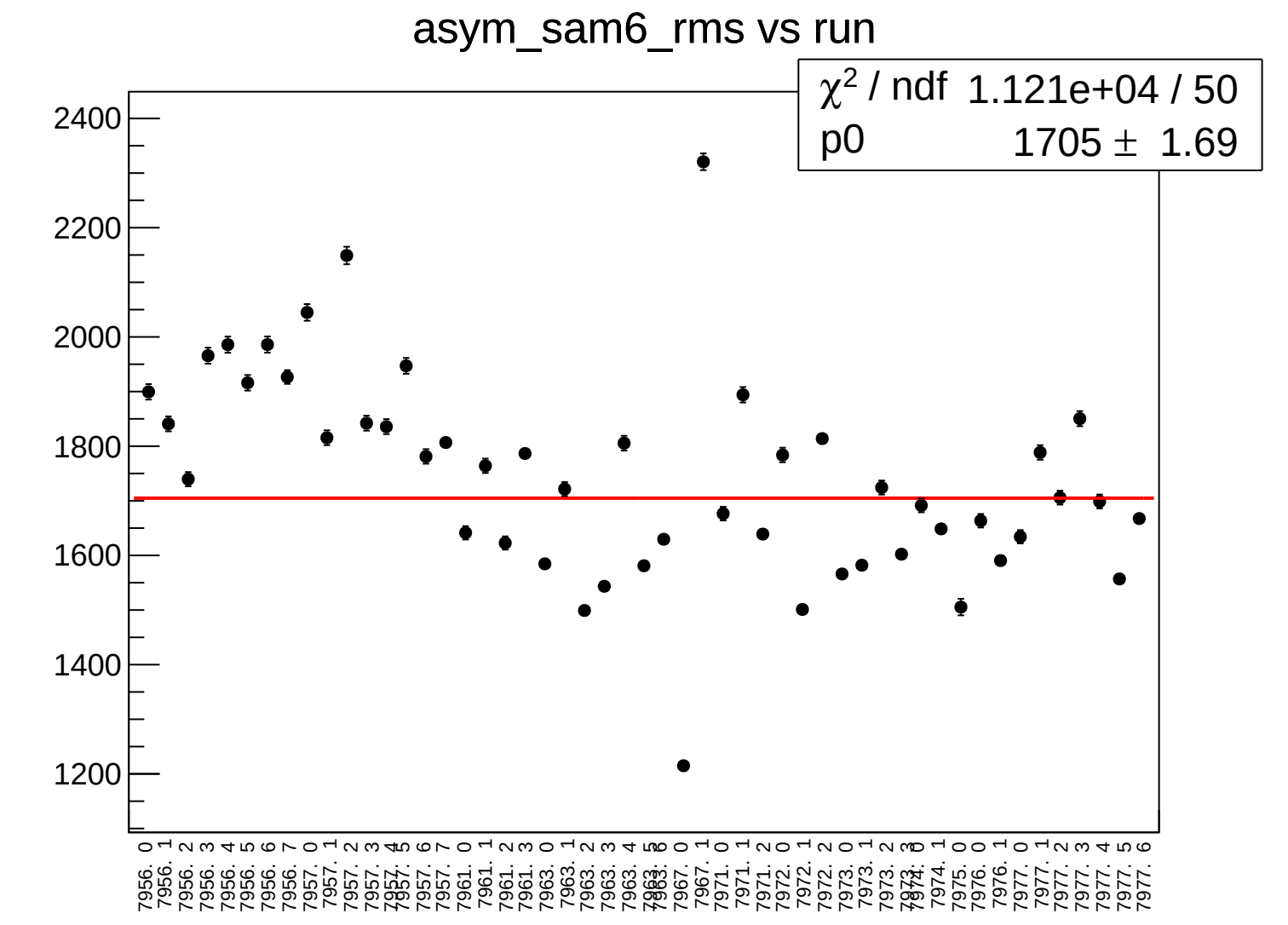
7977. 5
7977. 6


asym_sam6_mean vs run
χ² / ndf 57.48 / 50
p0 69.06 ± 2390
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −96.61
Std Dev 131.7
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.009335
Std Dev 1.062
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_rms vs run
χ² / ndf 1.121e+04 / 50
p0 1705 ± 1.69
2400
2200
2000
1800
1600
1400
1200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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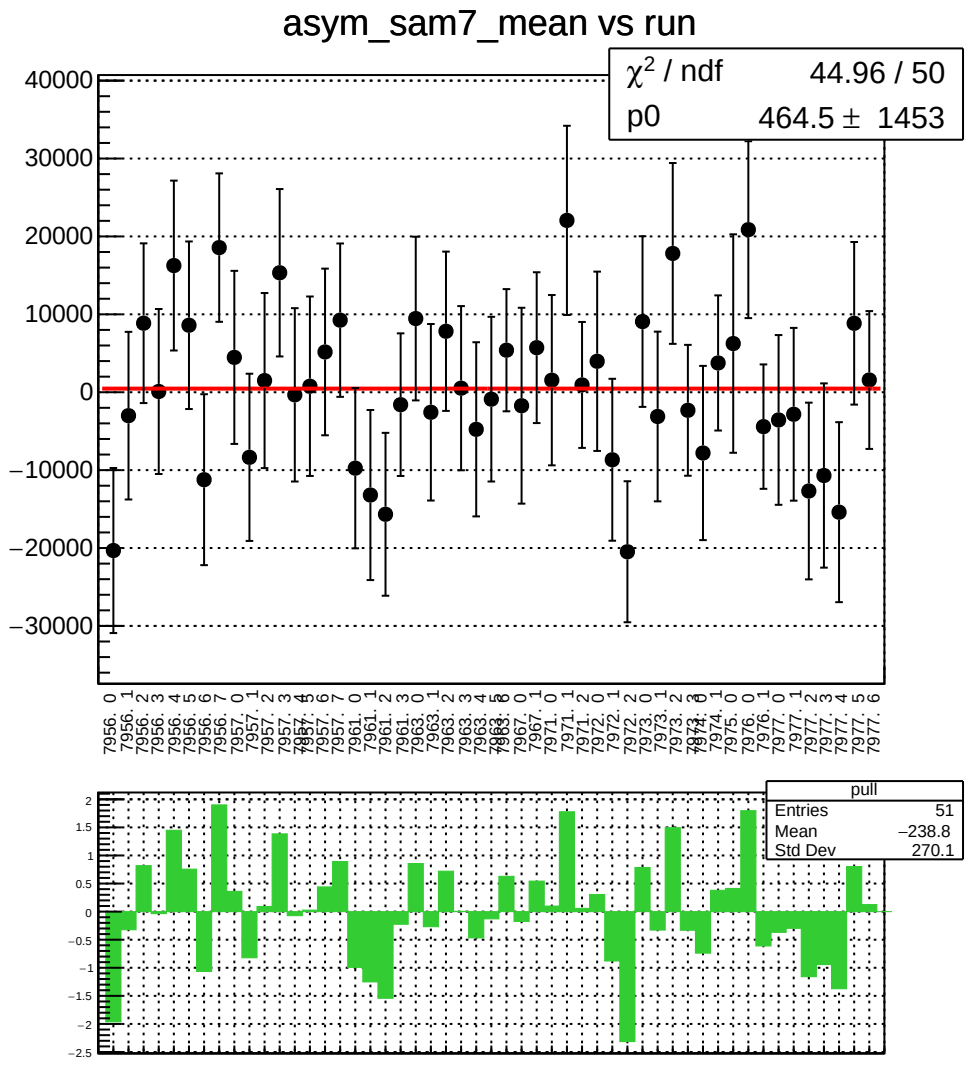
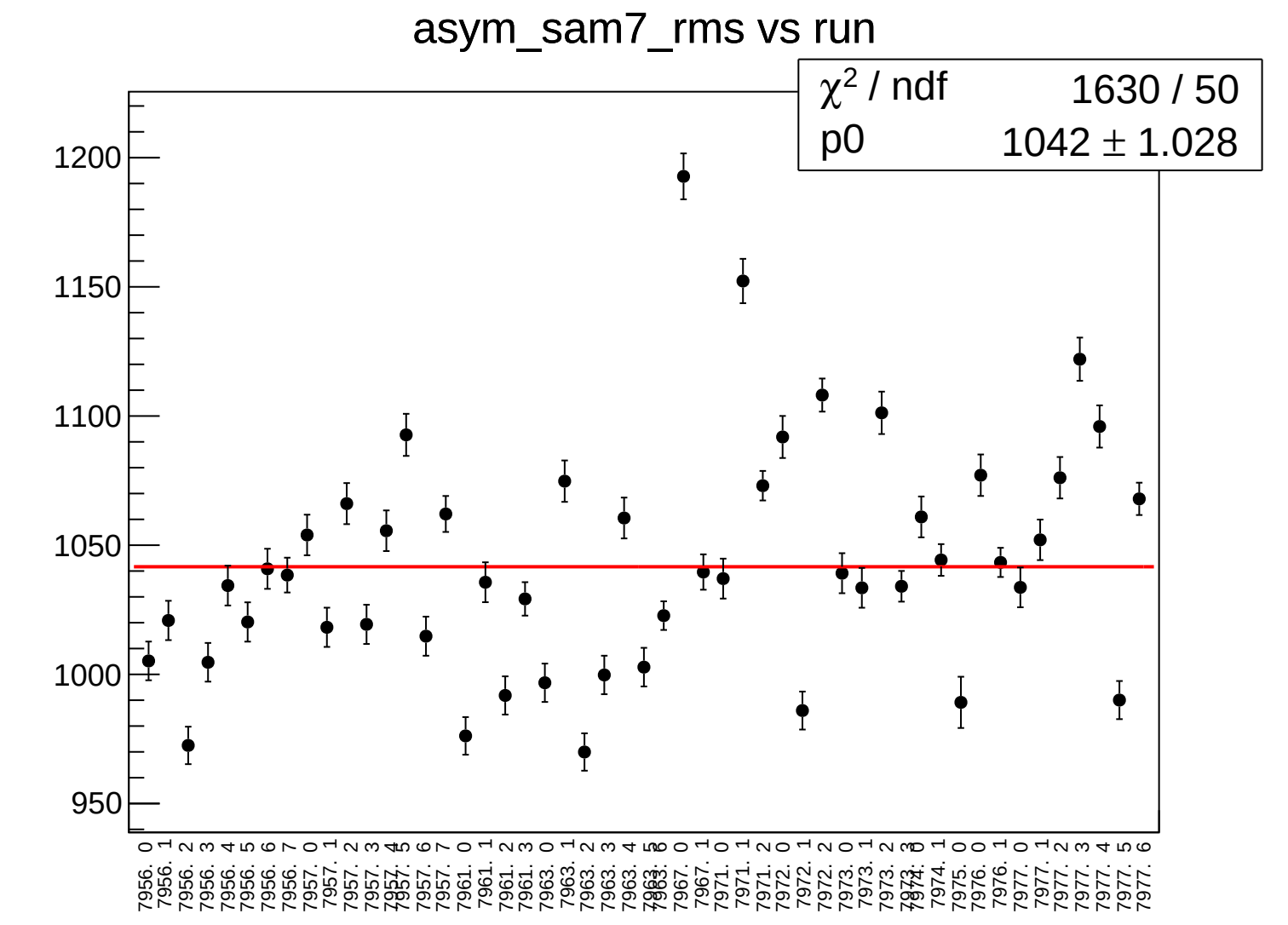
7977. 5
7977. 6


asym_sam7_mean vs run
χ^2 / ndf 44.96 / 50
p0 464.5 ± 1453
40000
30000
20000
10000
0
−10000
−20000
−30000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7973. 3
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 51
Mean −238.8
Std Dev 270.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 51
Mean 0.004711
Std Dev 0.9389
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam7_rms vs run
χ² / ndf 1630 / 50
p0 1042 ± 1.028
1200
1150
1100
1050
1000
950
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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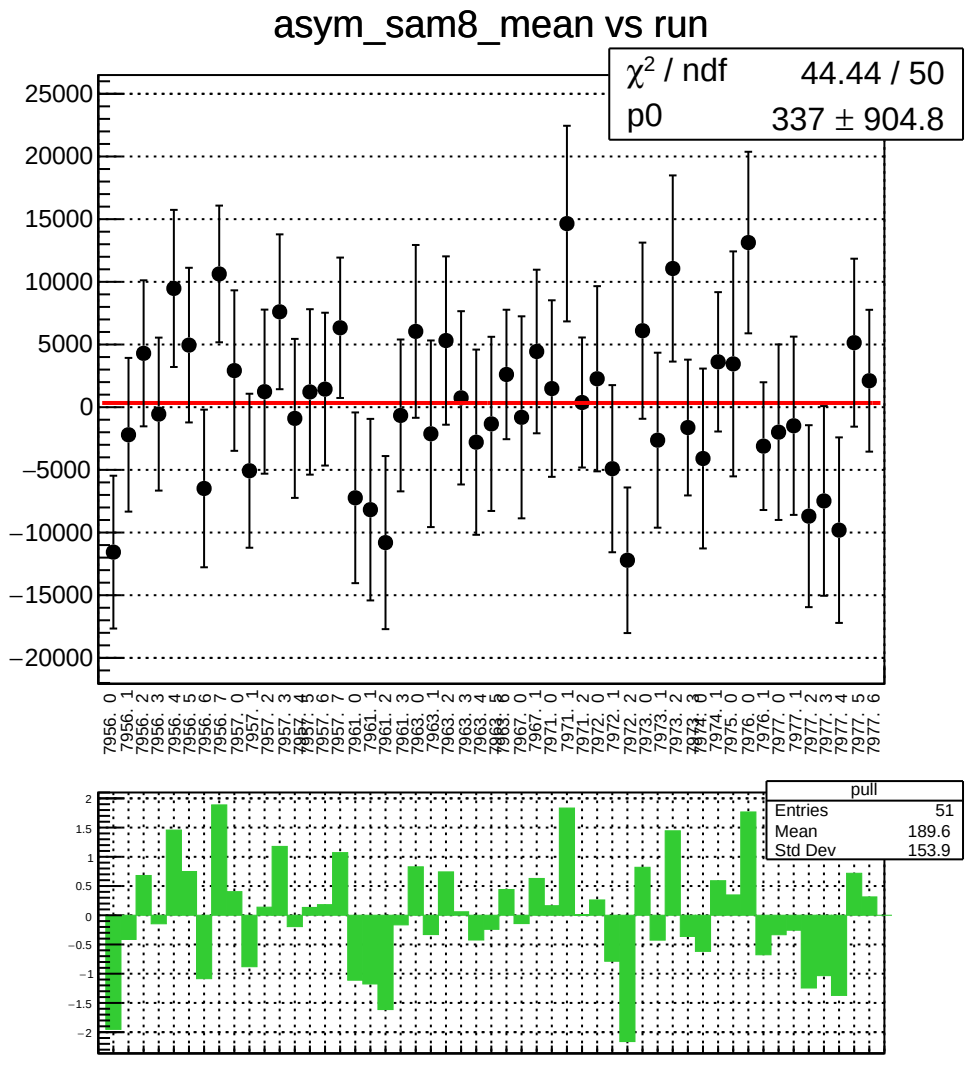
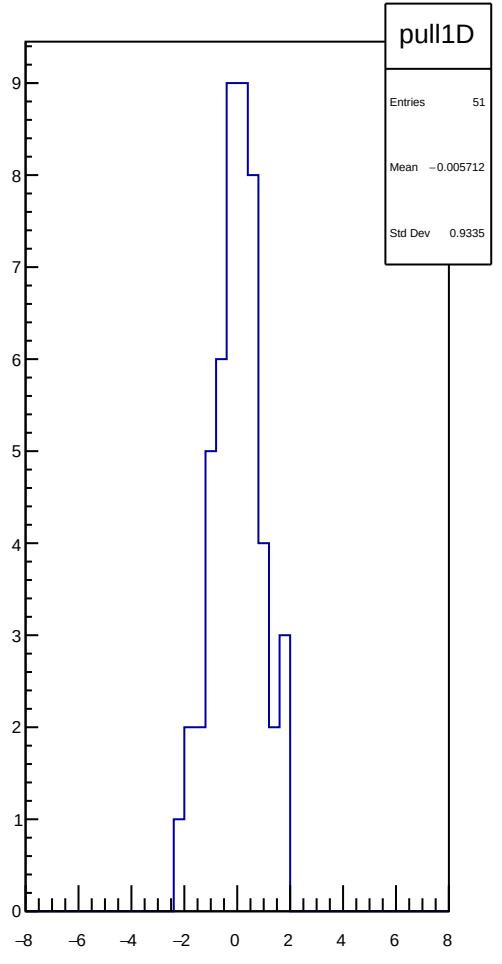
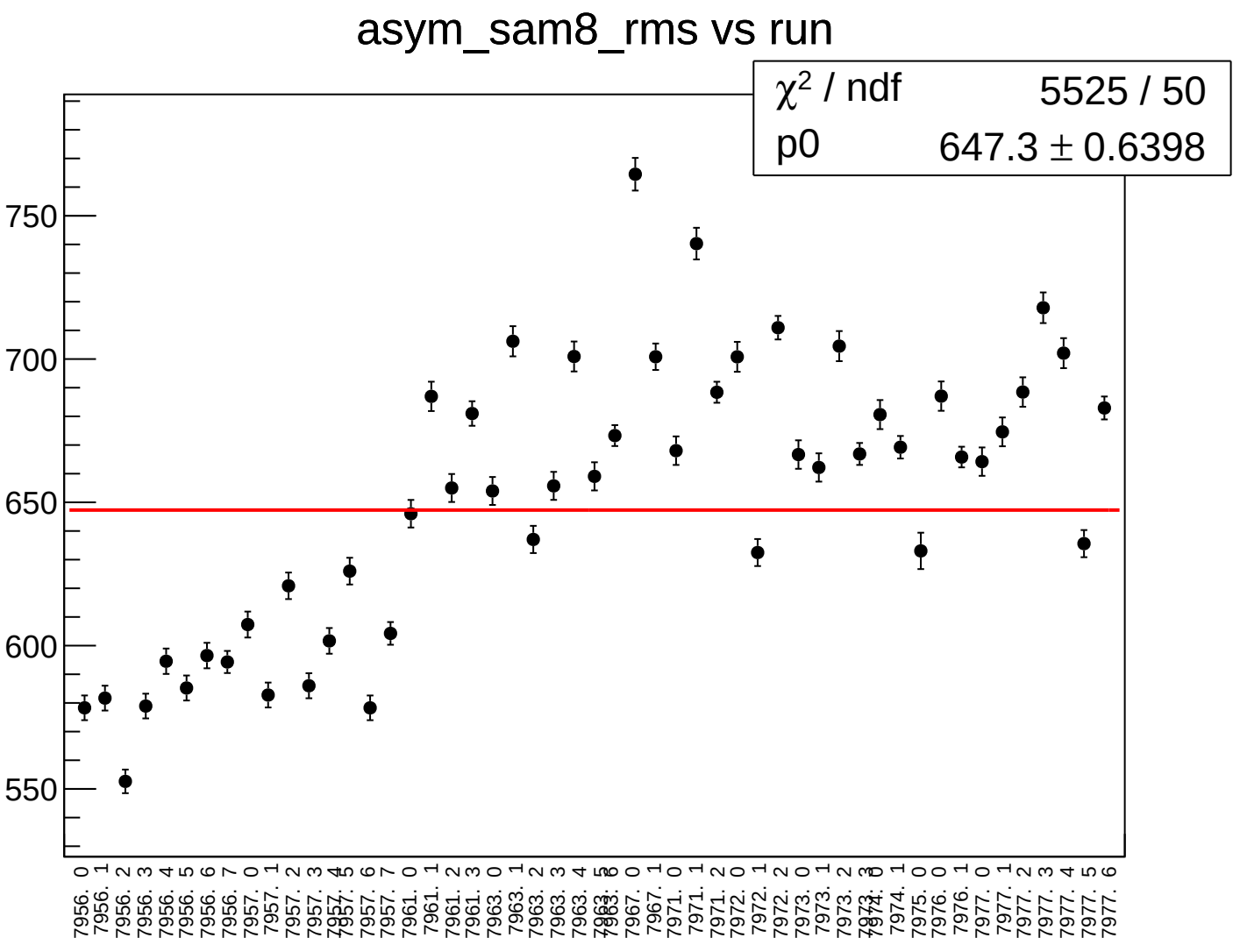
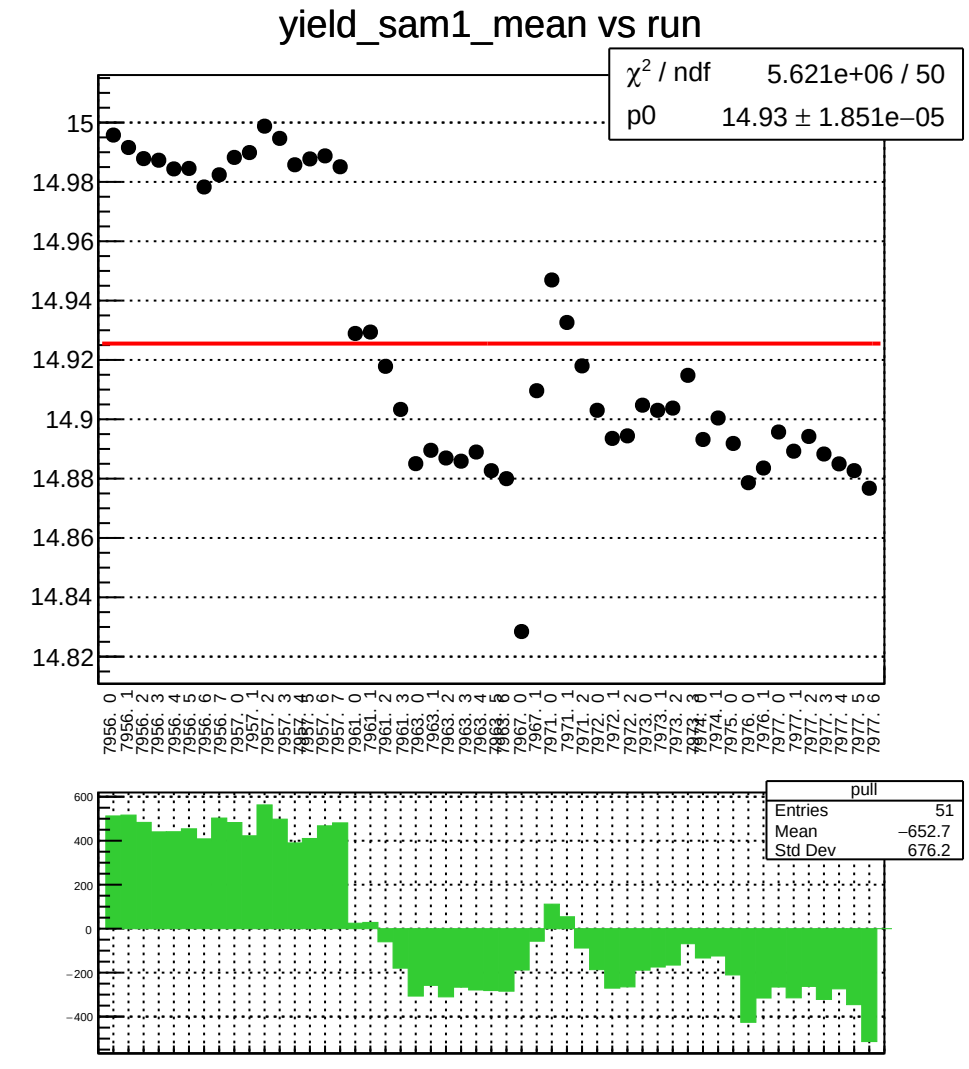
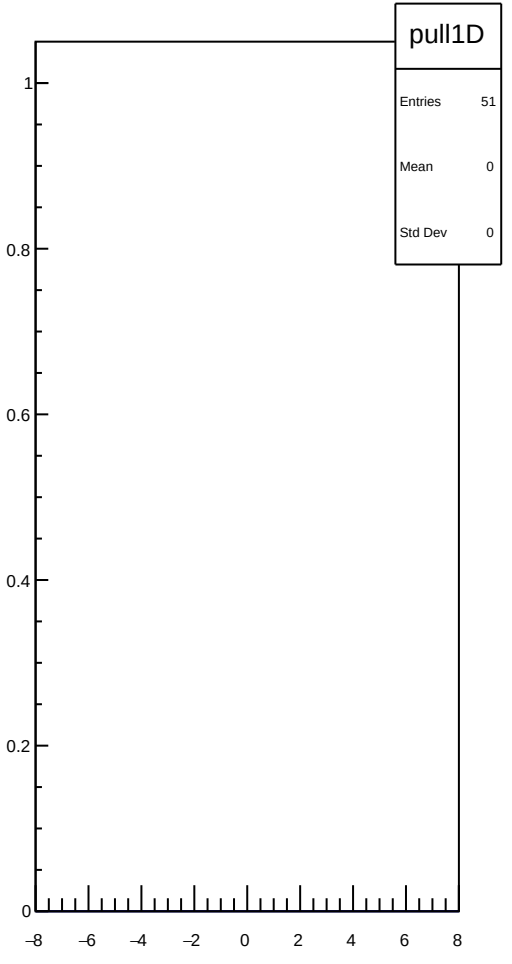
7977. 5
7977. 6

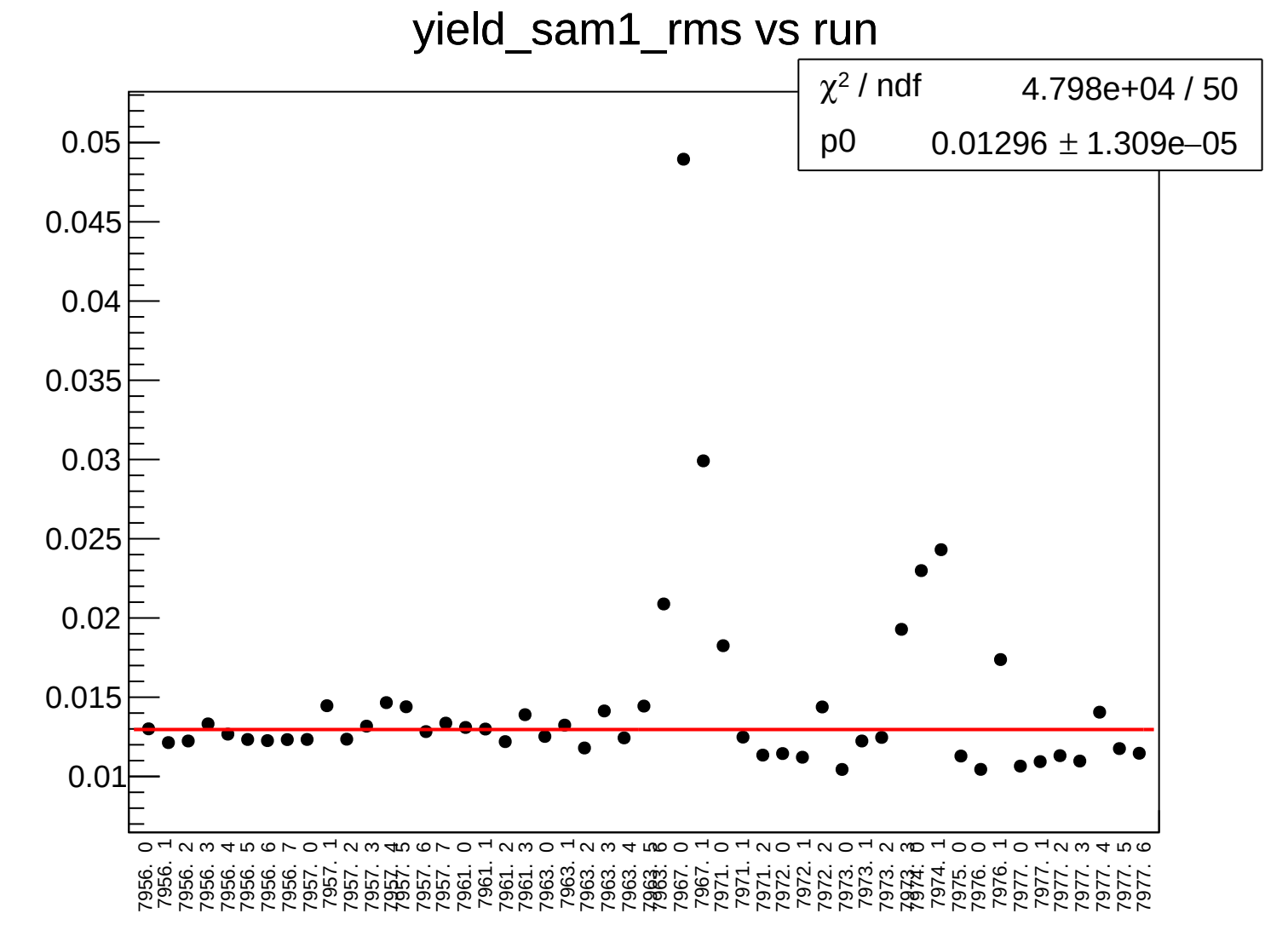

asym_sam8_mean vs run
χ² / ndf 44.44 / 50
p0 337 ± 904.8
pull
Entries 51
Mean 189.6
Std Dev 153.9

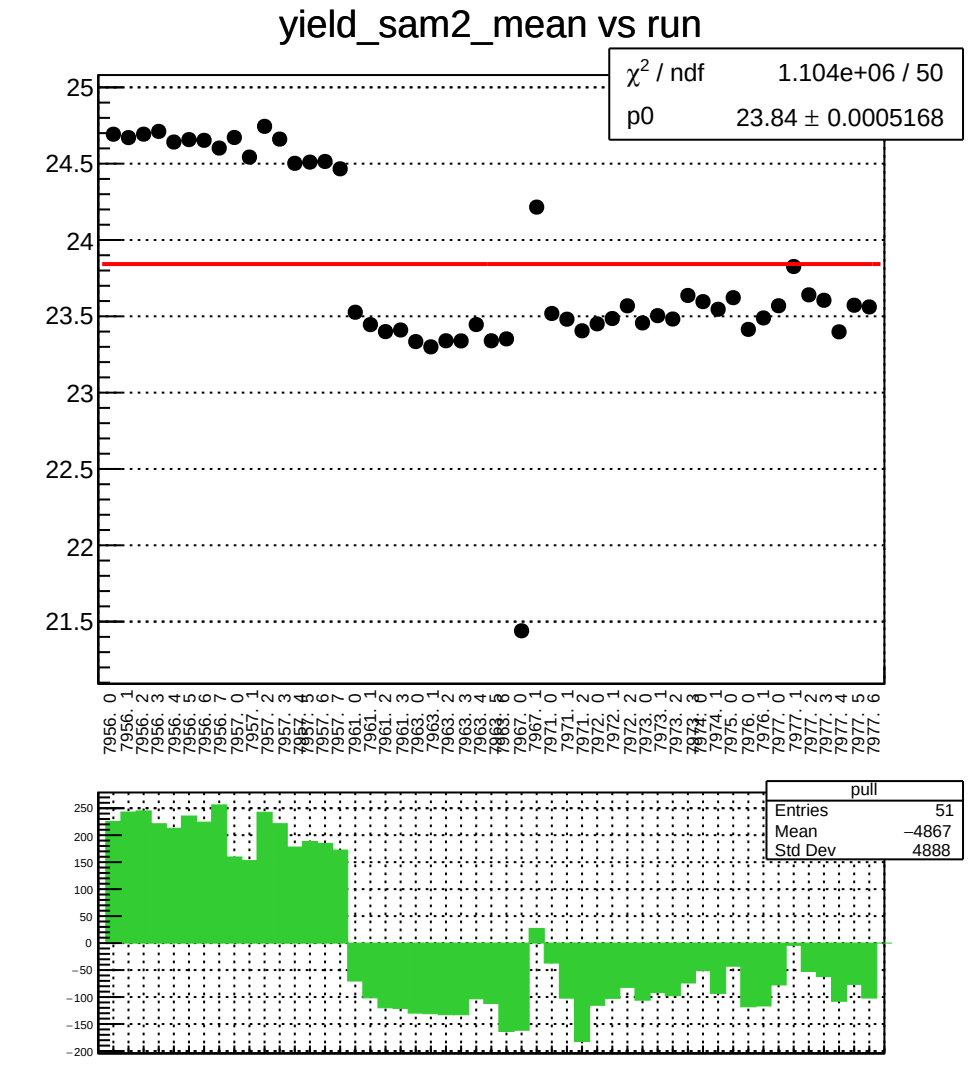

pull1D
Entries 51
Mean −0.005712
Std Dev 0.9335

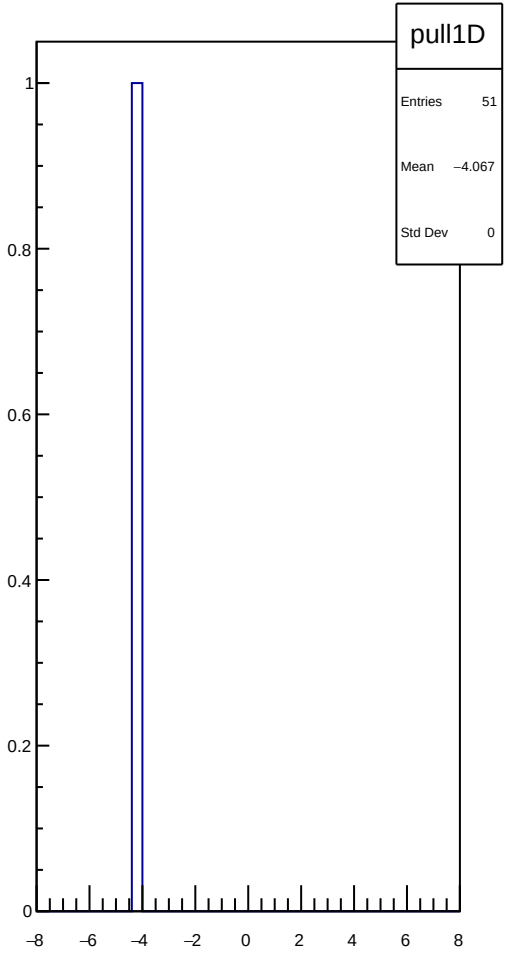

asym_sam8_rms vs run
χ² / ndf 5525 / 50
p0 647.3 ± 0.6398
750
700
650
600
550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

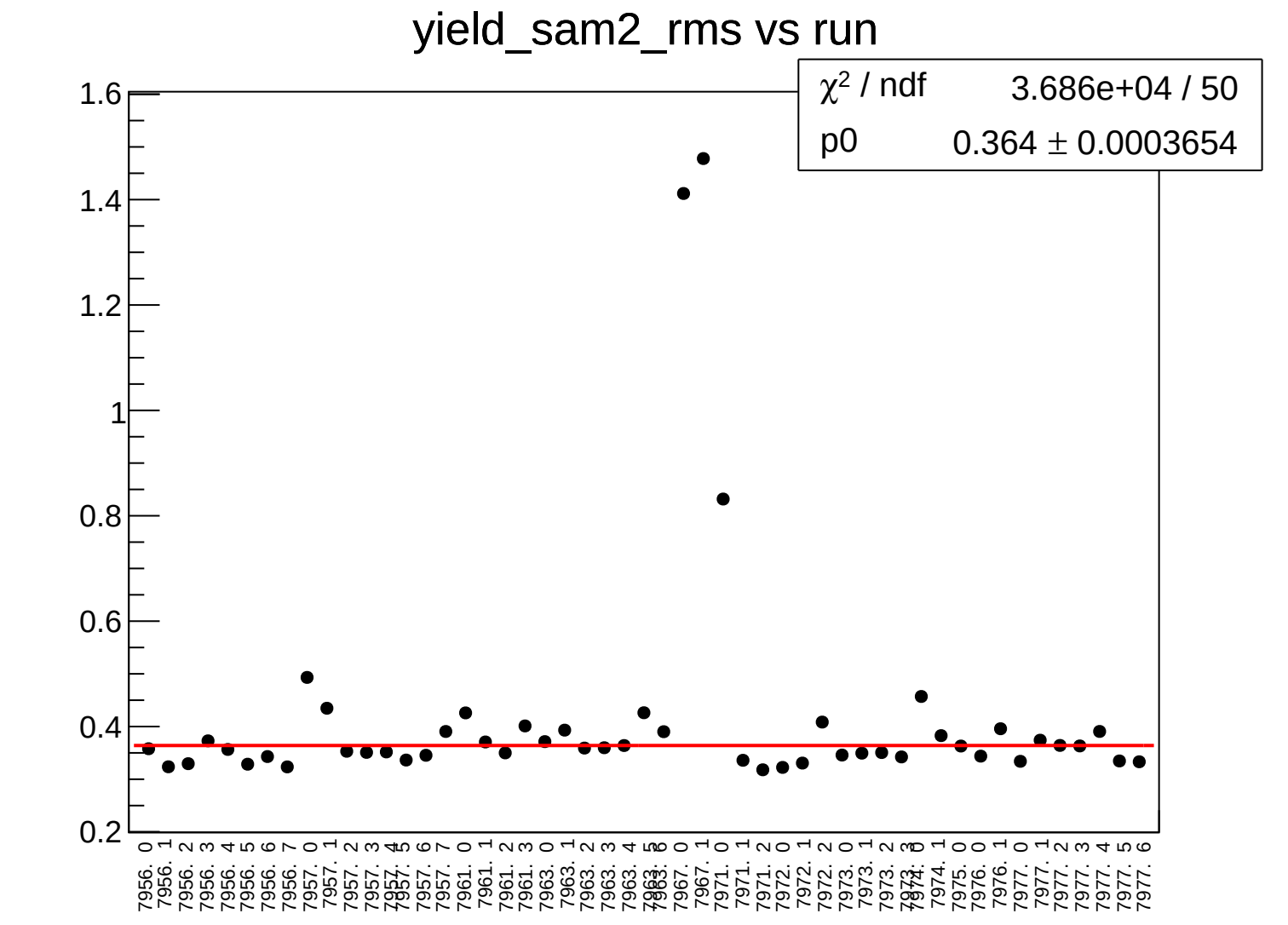

yield_sam1_mean vs run
χ² / ndf 5.621e+06 / 50
p0 14.93 ± 1.851e−05
15
14.98
14.96
14.94
14.92
14.9
14.88
14.86
14.84
14.82
pull
Entries 51
Mean −652.7
Std Dev 676.2
600
400
200
0
−200
−400

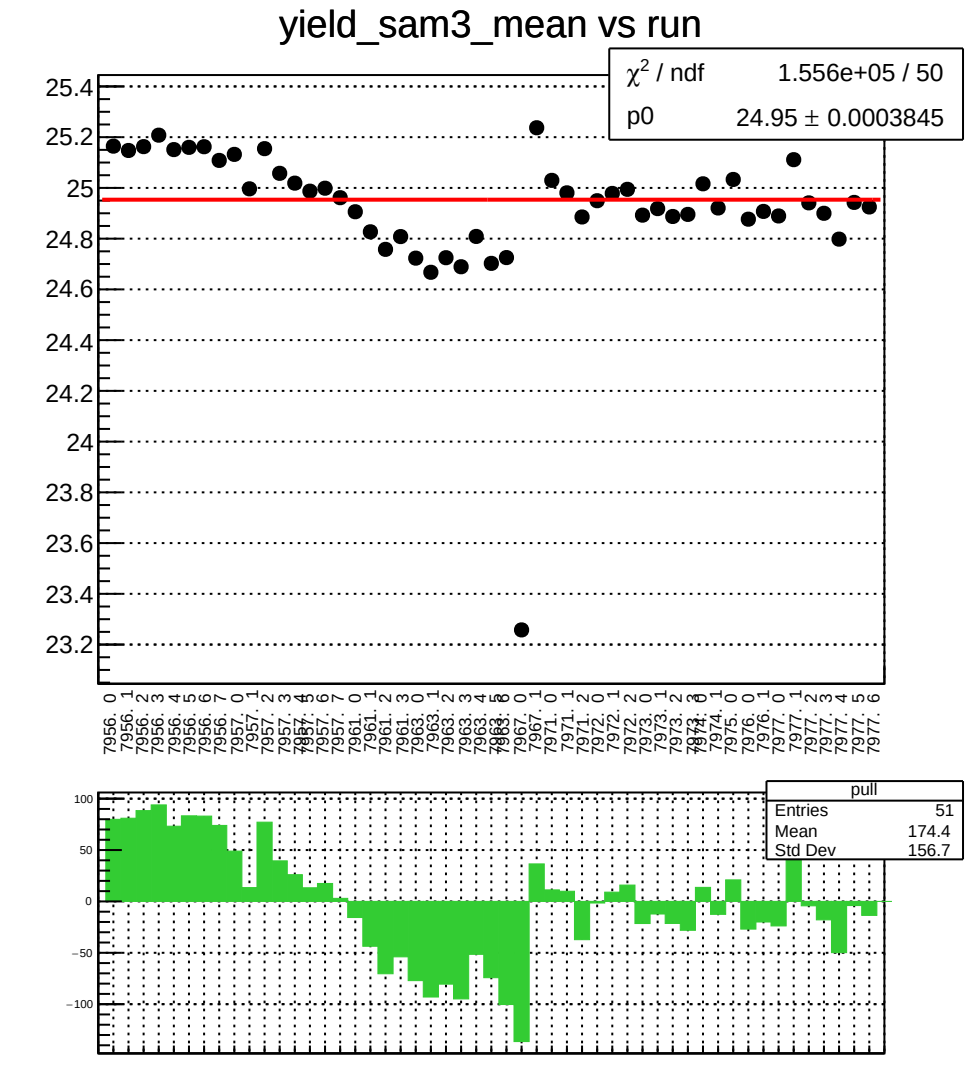

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

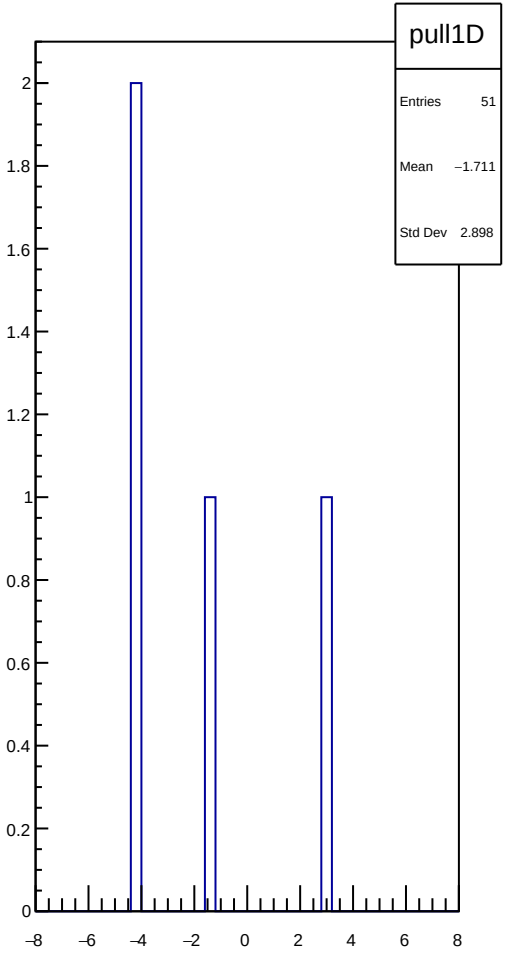

yield_sam1_rms vs run
χ² / ndf 4.798e+04 / 50
p0 0.01296 ± 1.309e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

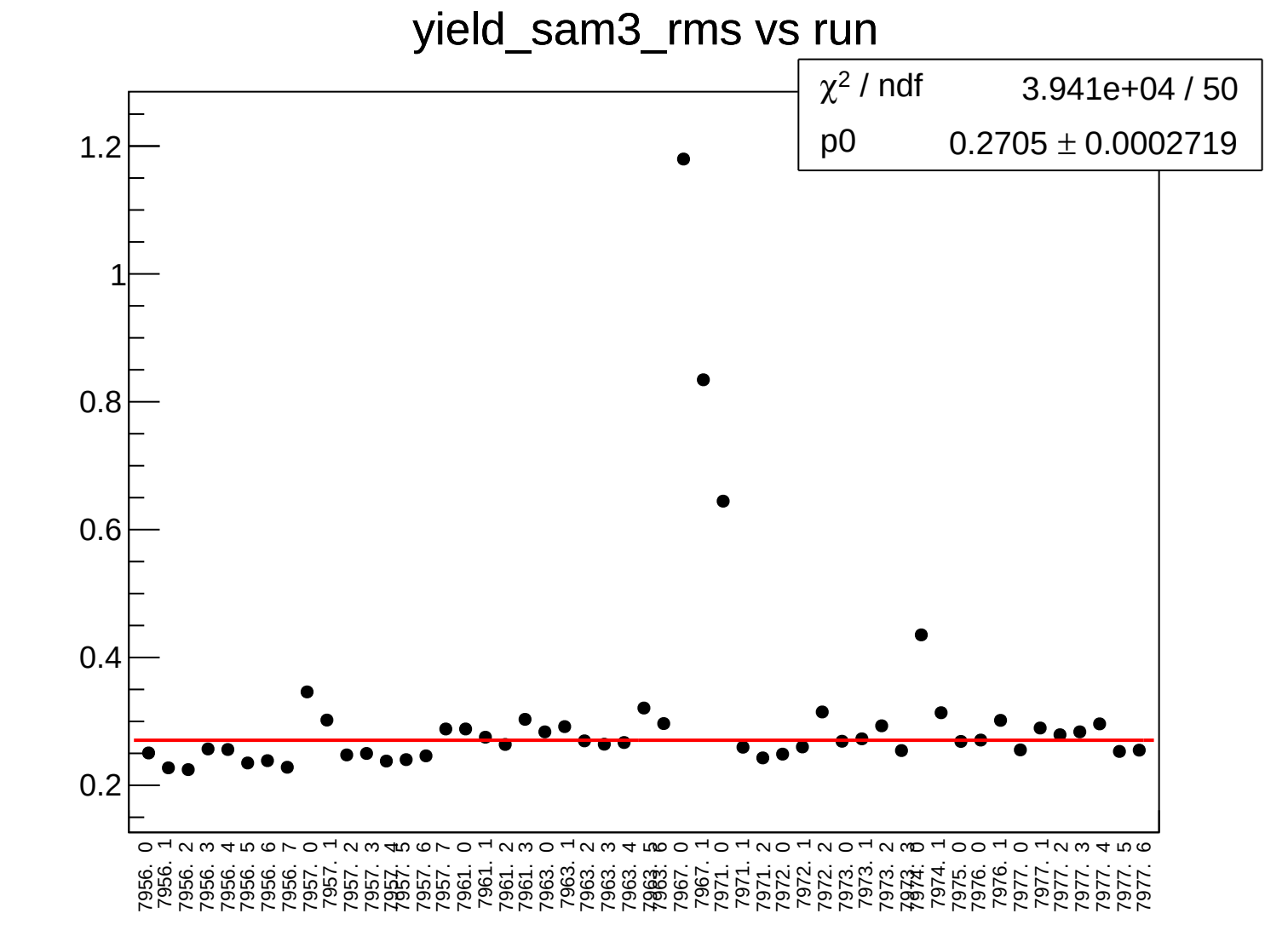

yield_sam2_mean vs run
χ² / ndf 1.104e+06 / 50
p0 23.84 ± 0.0005168
pull
Entries 51
Mean −4867
Std Dev 4888

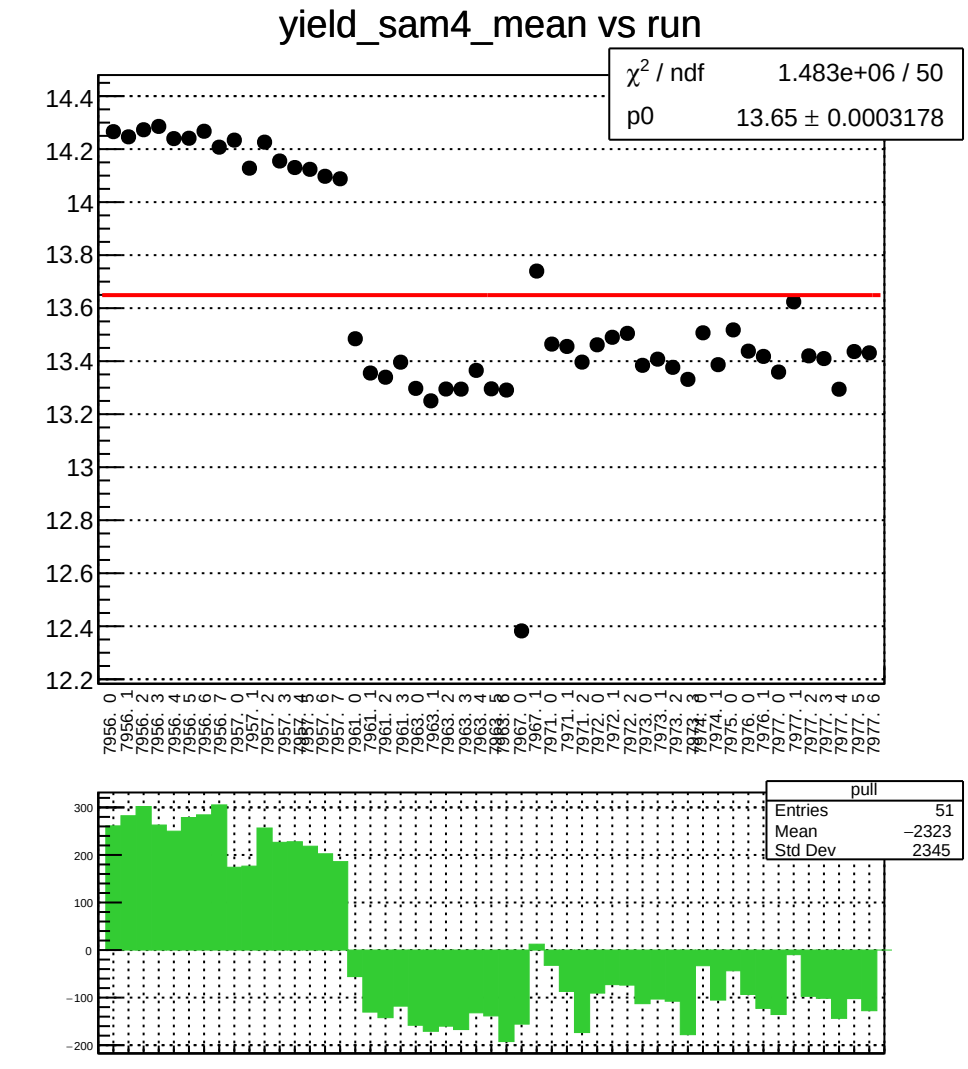

pull1D
Entries 51
Mean −4.067
Std Dev 0

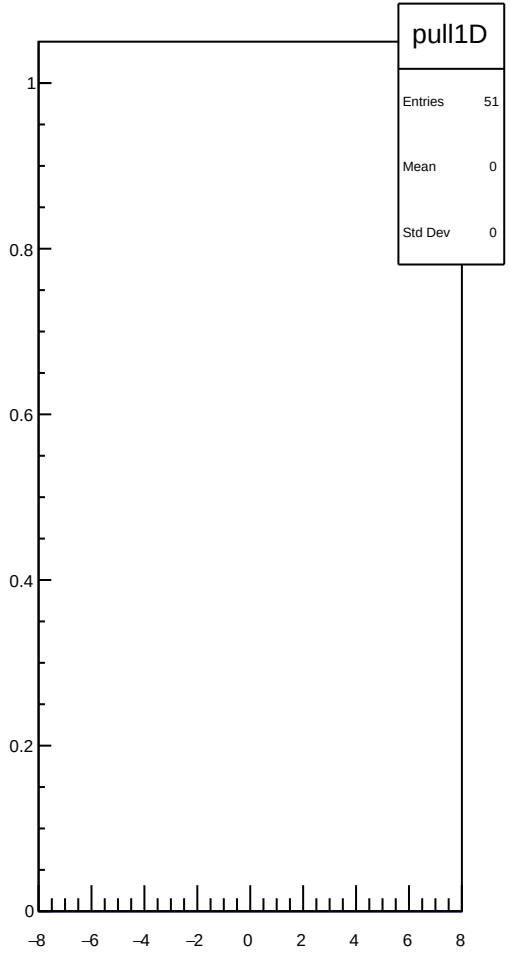

yield_sam2_rms vs run
χ² / ndf 3.686e+04 / 50
p0 0.364 ± 0.0003654
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

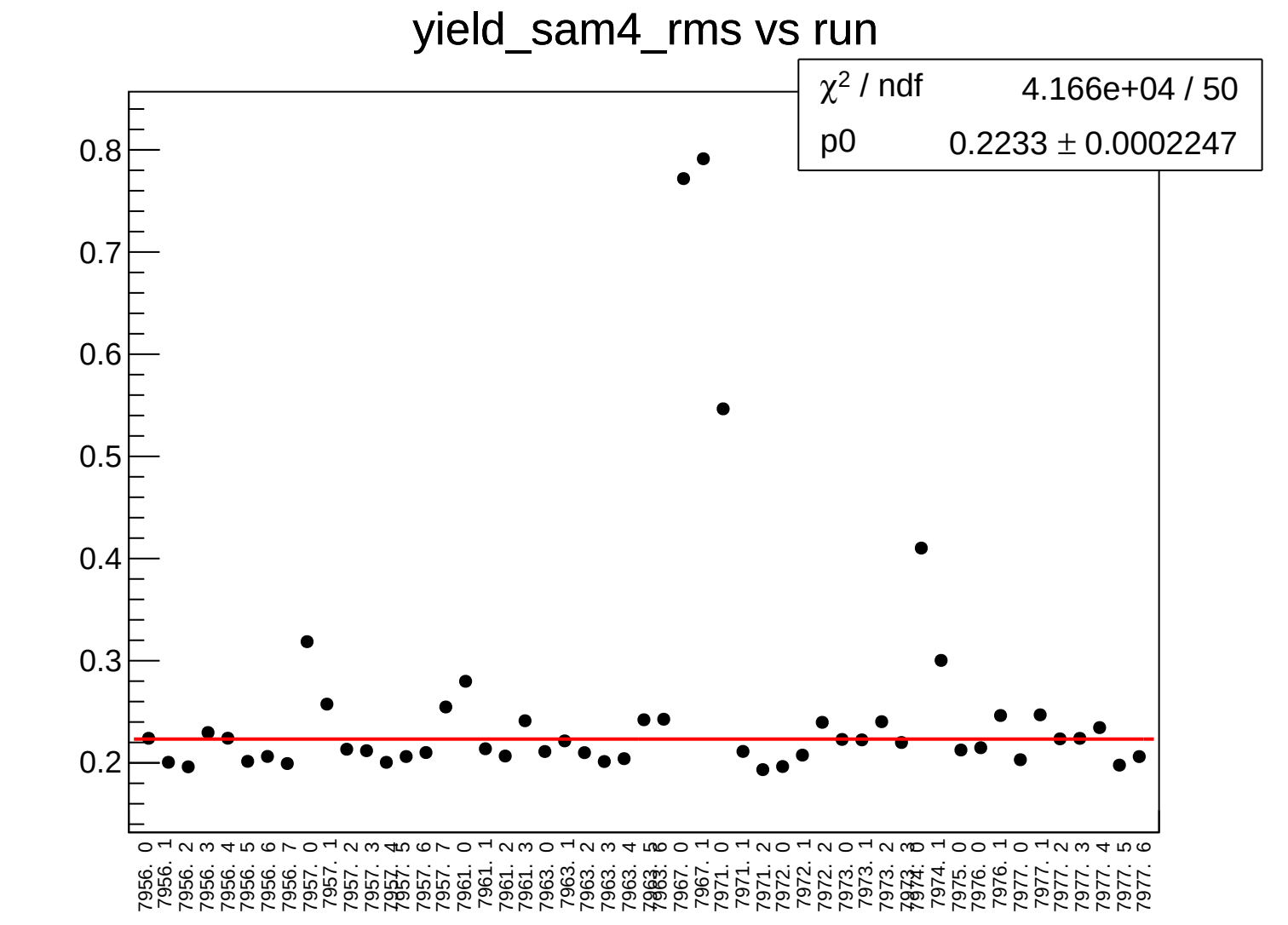

yield_sam3_mean vs run
χ² / ndf 1.556e+05 / 50
p0 24.95 ± 0.0003845
25.4
25.2
25
24.8
24.6
24.4
24.2
24
23.8
23.6
23.4
23.2
pull
Entries 51
Mean 174.4
Std Dev 156.7
100
50
0
−50
−100

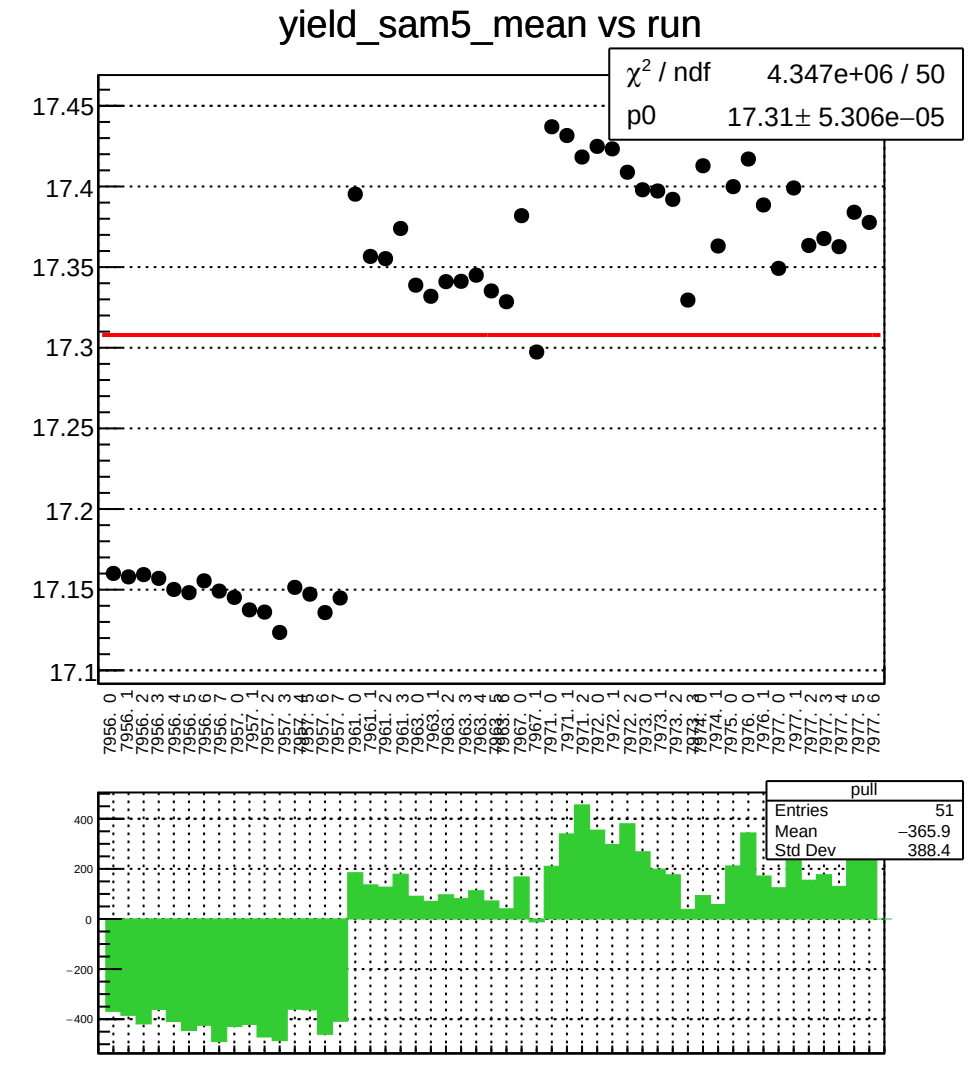

pull1D
Entries 51
Mean −1.711
Std Dev 2.898
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

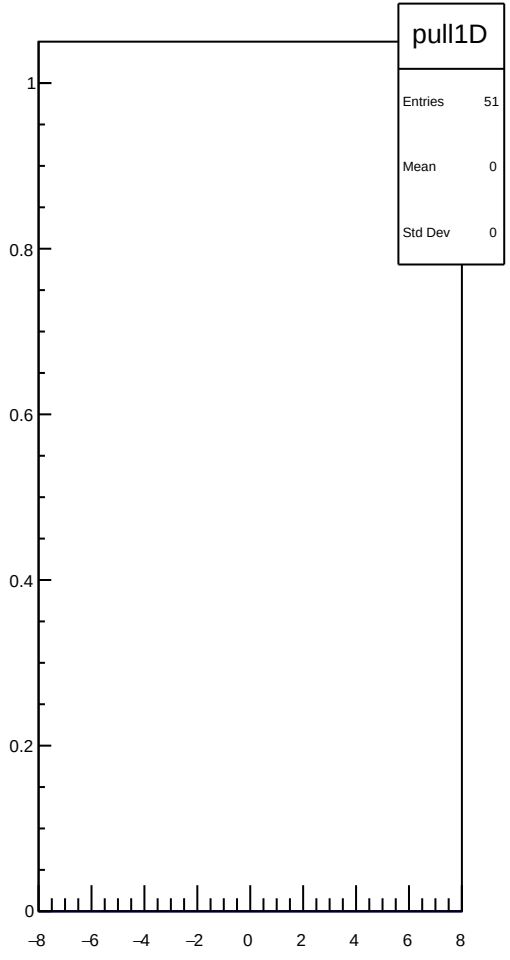

yield_sam3_rms vs run
χ² / ndf 3.941e+04 / 50
p0 0.2705 ± 0.0002719
1.2
1
0.8
0.6
0.4
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

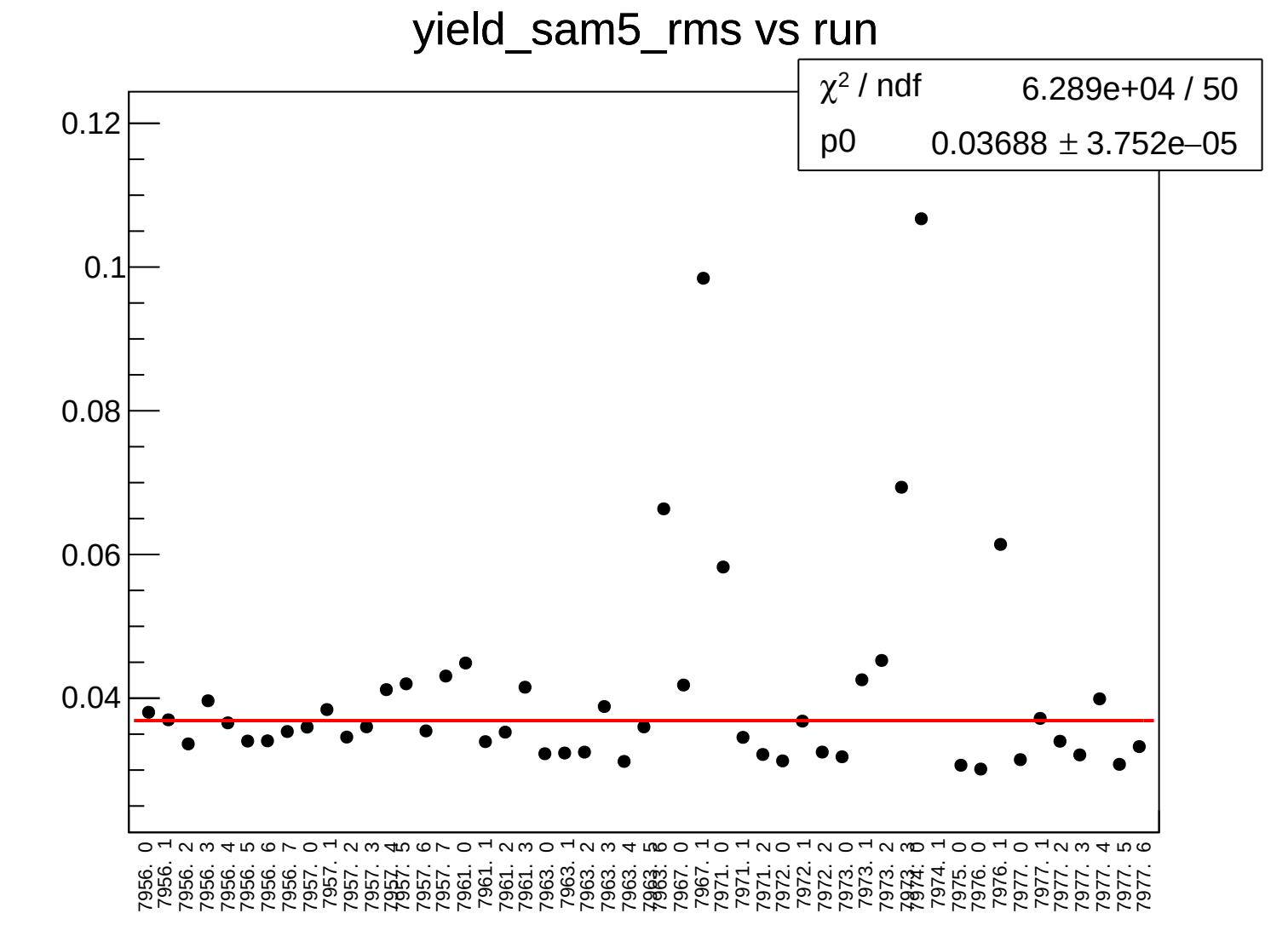

yield_sam4_mean vs run
χ² / ndf 1.483e+06 / 50
p0 13.65 ± 0.0003178
pull
Entries 51
Mean −2323
Std Dev 2345

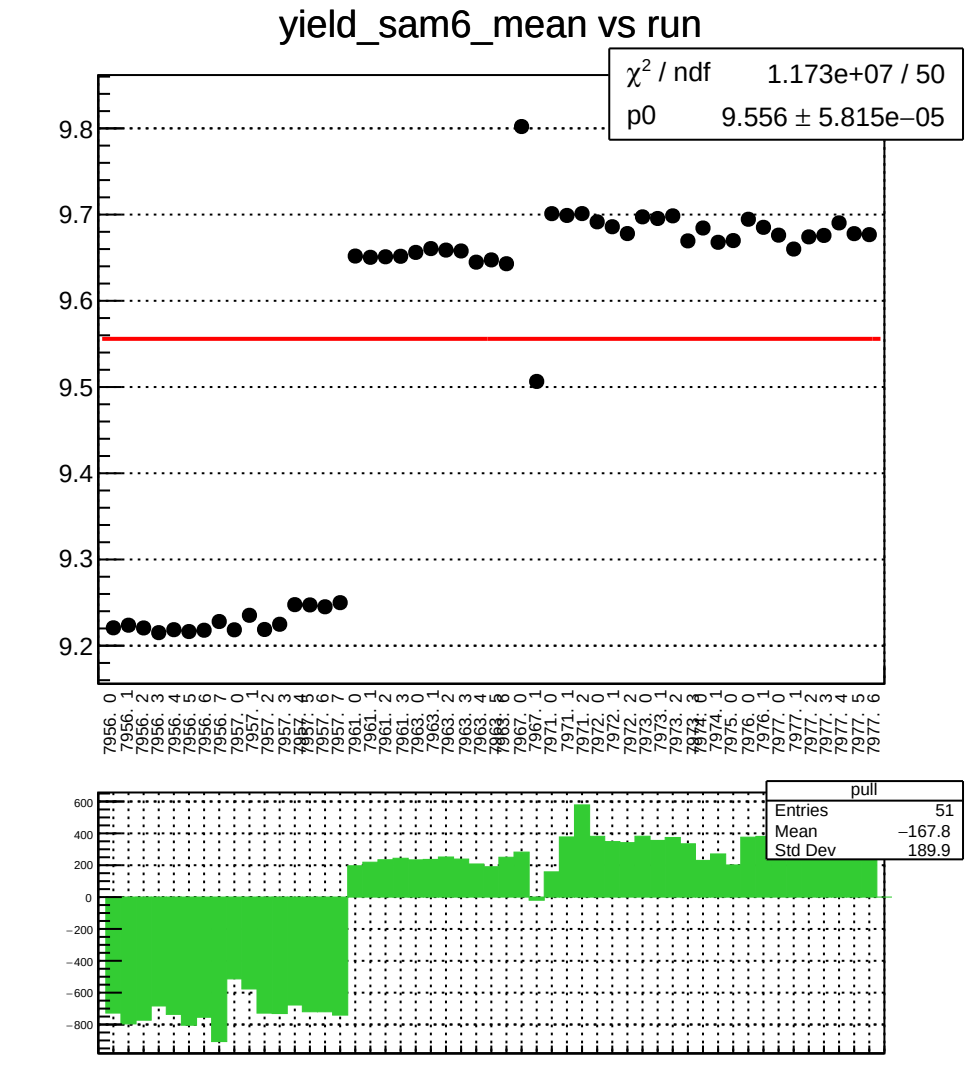

pull1D
Entries 51
Mean 0
Std Dev 0

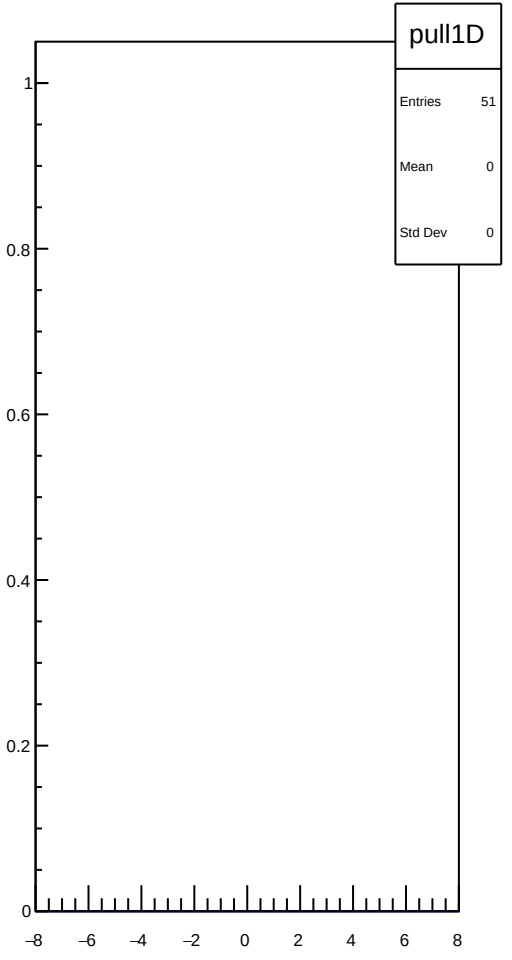

yield_sam4_rms vs run
χ² / ndf 4.166e+04 / 50
p0 0.2233 ± 0.0002247
0.8
0.7
0.6
0.5
0.4
0.3
0.2

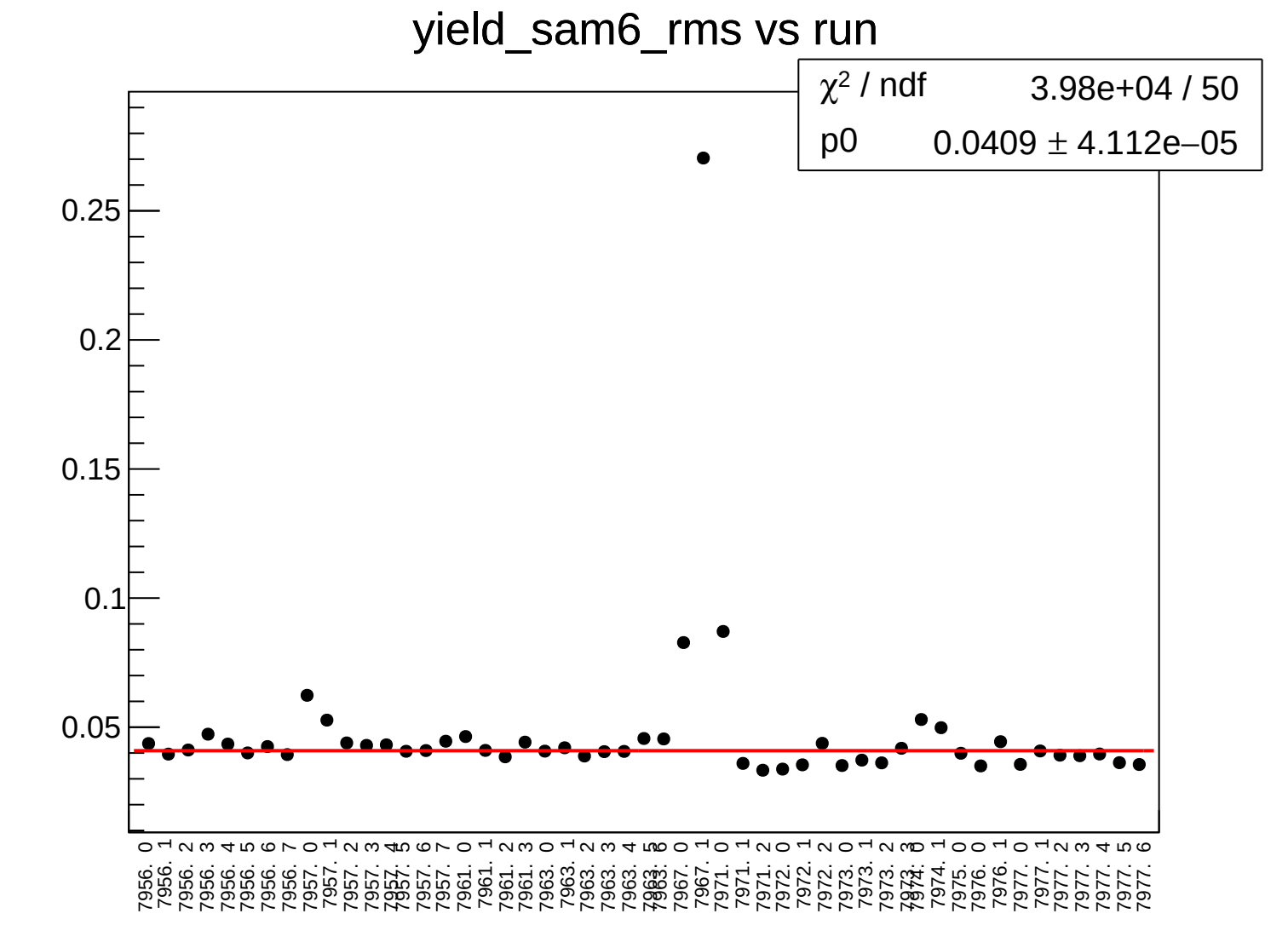

yield_sam5_mean vs run
χ² / ndf 4.347e+06 / 50
p0 17.31± 5.306e−05
17.45
17.4
17.35
17.3
17.25
17.2
17.15
17.1
pull
Entries 51
Mean −365.9
Std Dev 388.4
400
200
0
−200
−400

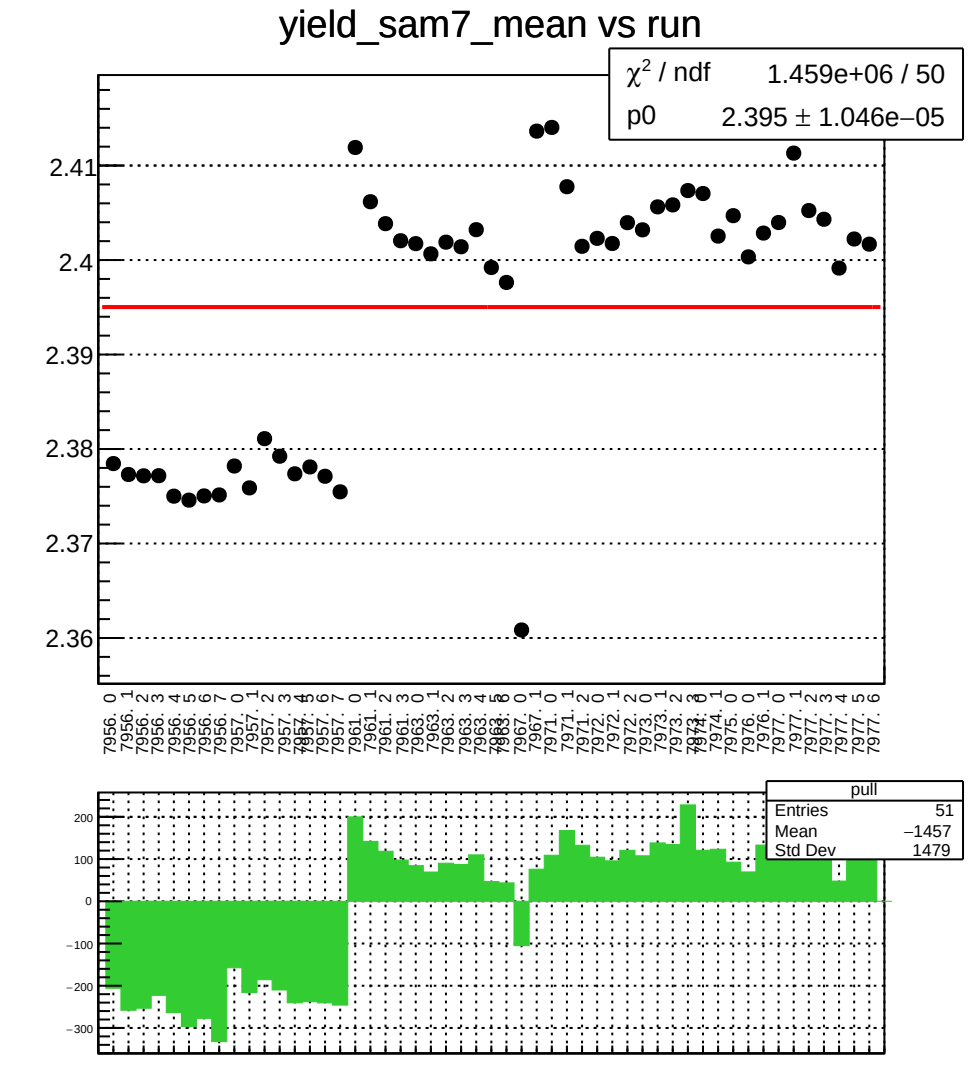

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

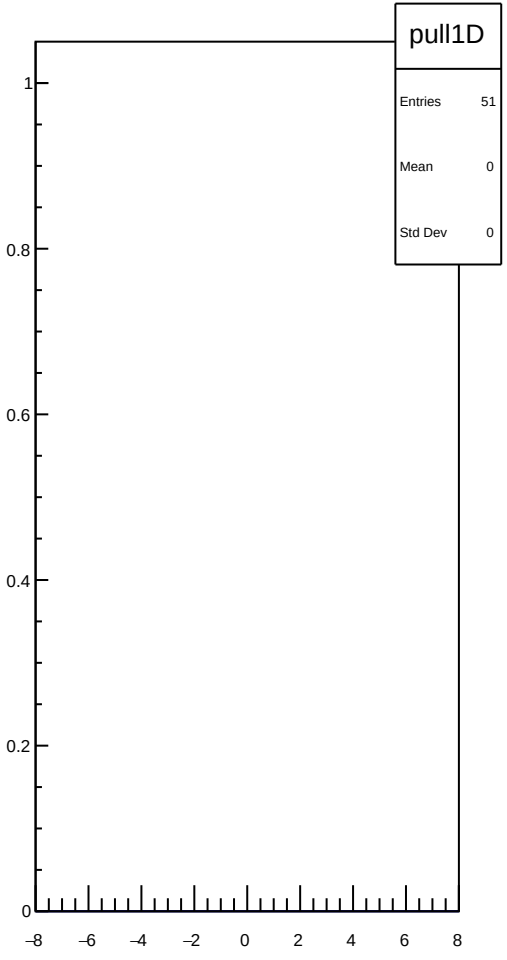

yield_sam5_rms vs run
χ² / ndf 6.289e+04 / 50
p0 0.03688 ± 3.752e–05
0.12
0.1
0.08
0.06
0.04

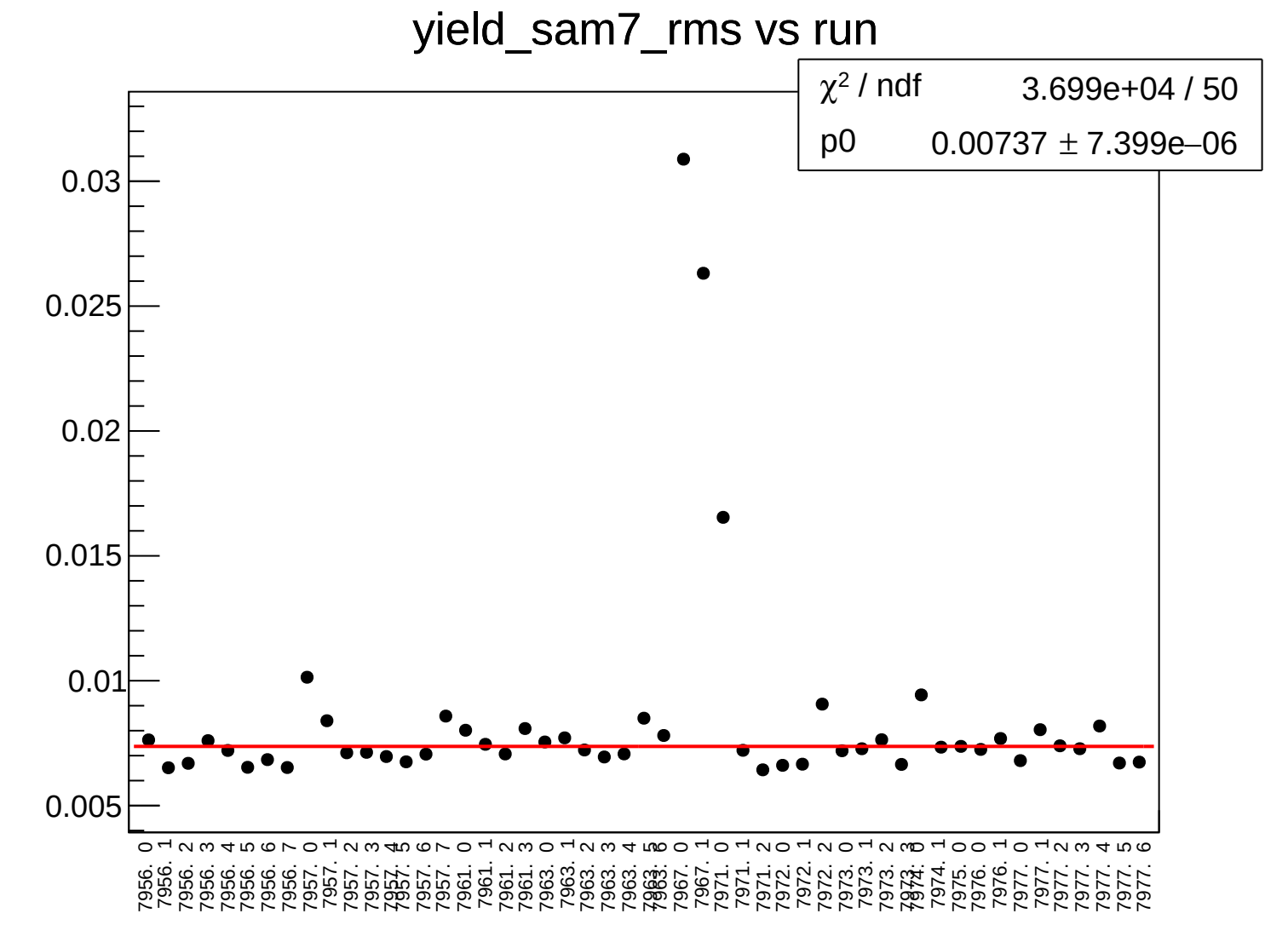

yield_sam6_mean vs run
χ² / ndf 1.173e+07 / 50
p0 9.556 ± 5.815e−05
9.8
9.7
9.6
9.5
9.4
9.3
9.2
pull
Entries 51
Mean −167.8
Std Dev 189.9
600
400
200
0
−200
−400
−600
−800


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


yield_sam6_rms vs run
χ² / ndf 3.98e+04 / 50
p0 0.0409 ± 4.112e−05
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_sam7_mean vs run
χ² / ndf 1.459e+06 / 50
p0 2.395 ± 1.046e−05
2.41
2.4
2.39
2.38
2.37
2.36
pull
Entries 51
Mean −1457
Std Dev 1479
200
100
0
−100
−200
−300


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


yield_sam7_rms vs run
χ² / ndf 3.699e+04 / 50
p0 0.00737 ± 7.399e–06
0.03
0.025
0.02
0.015
0.01
0.005
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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7977. 2
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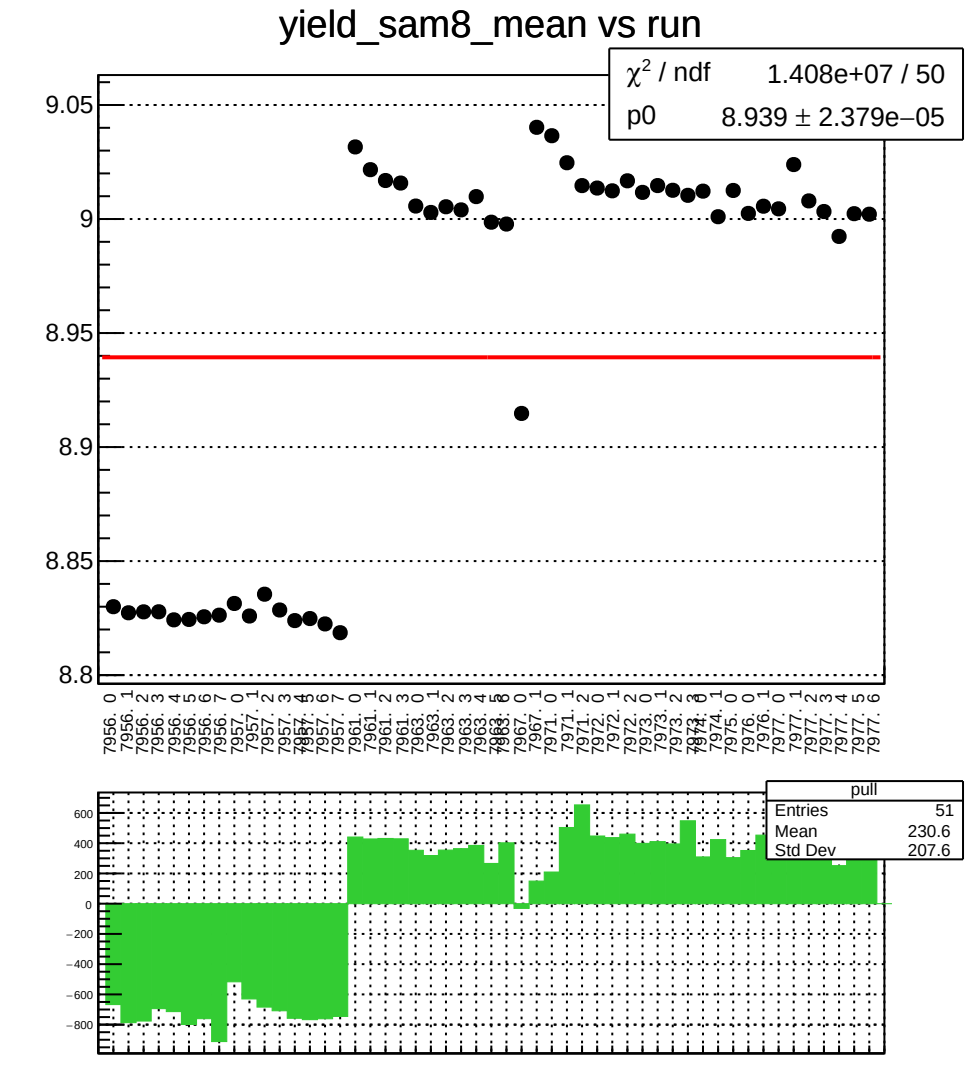
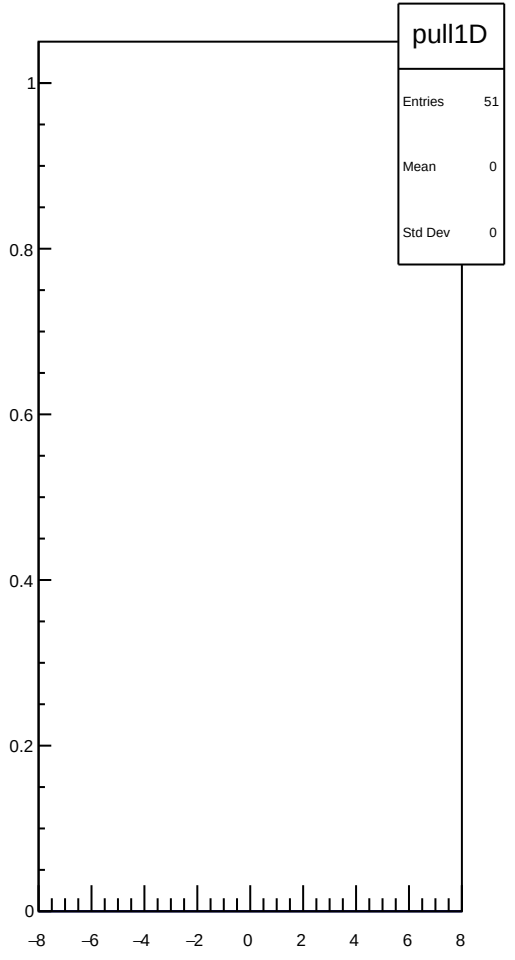
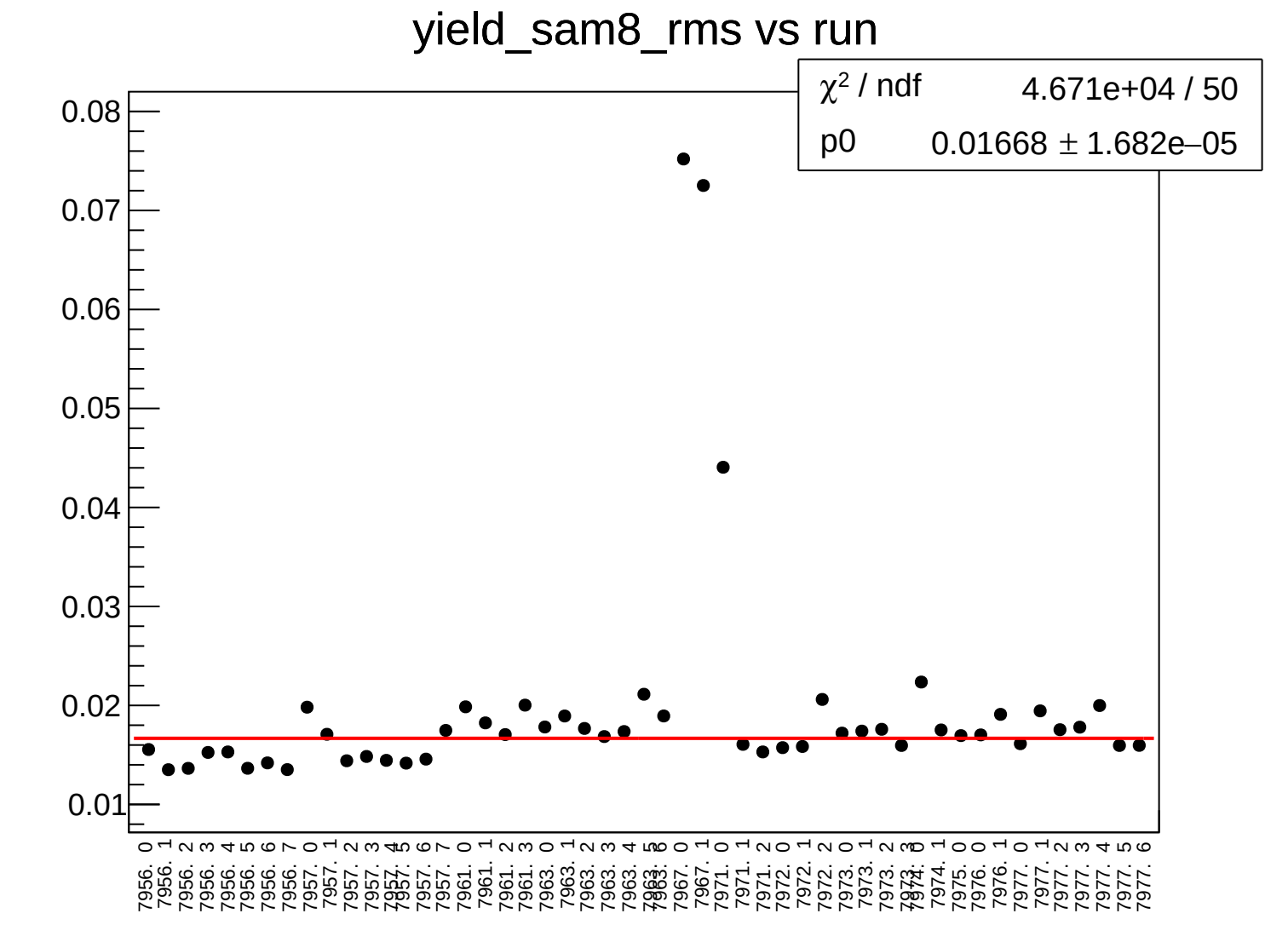
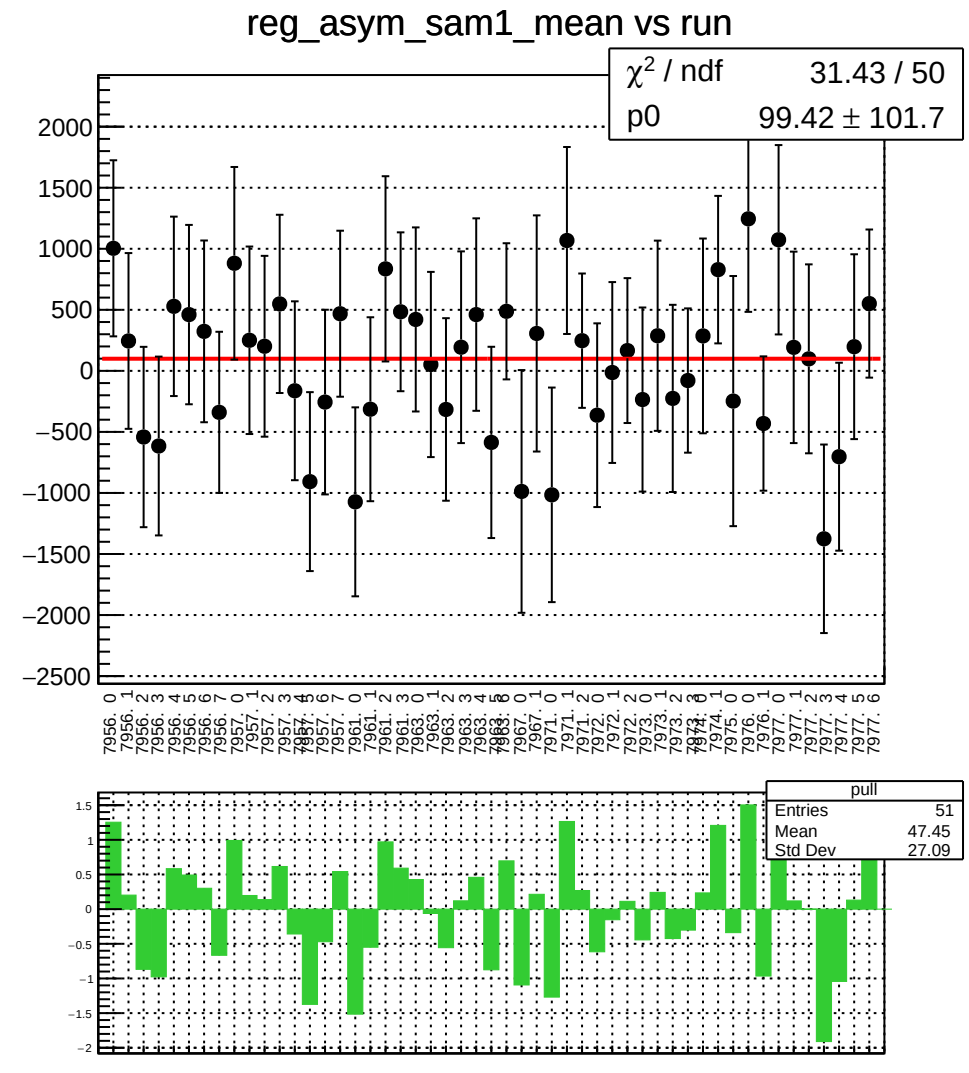
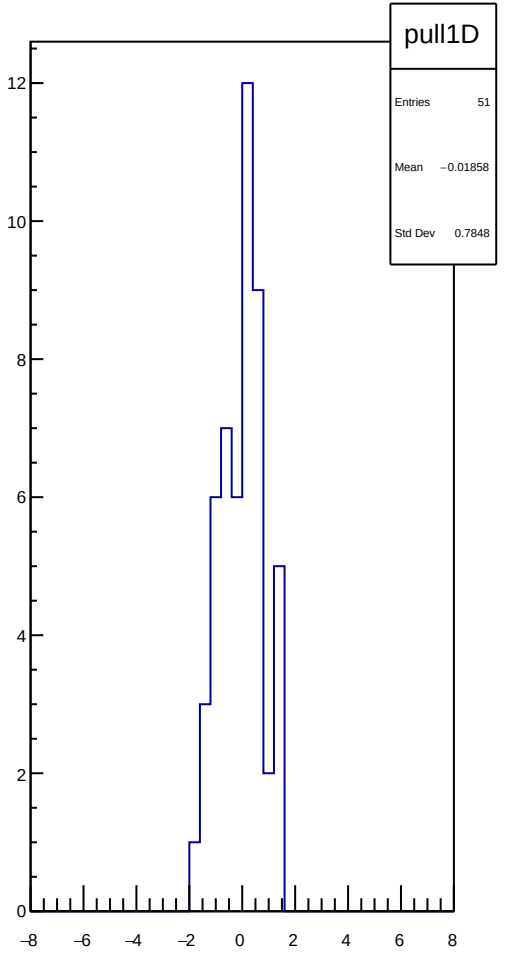
7977. 5
7977. 6

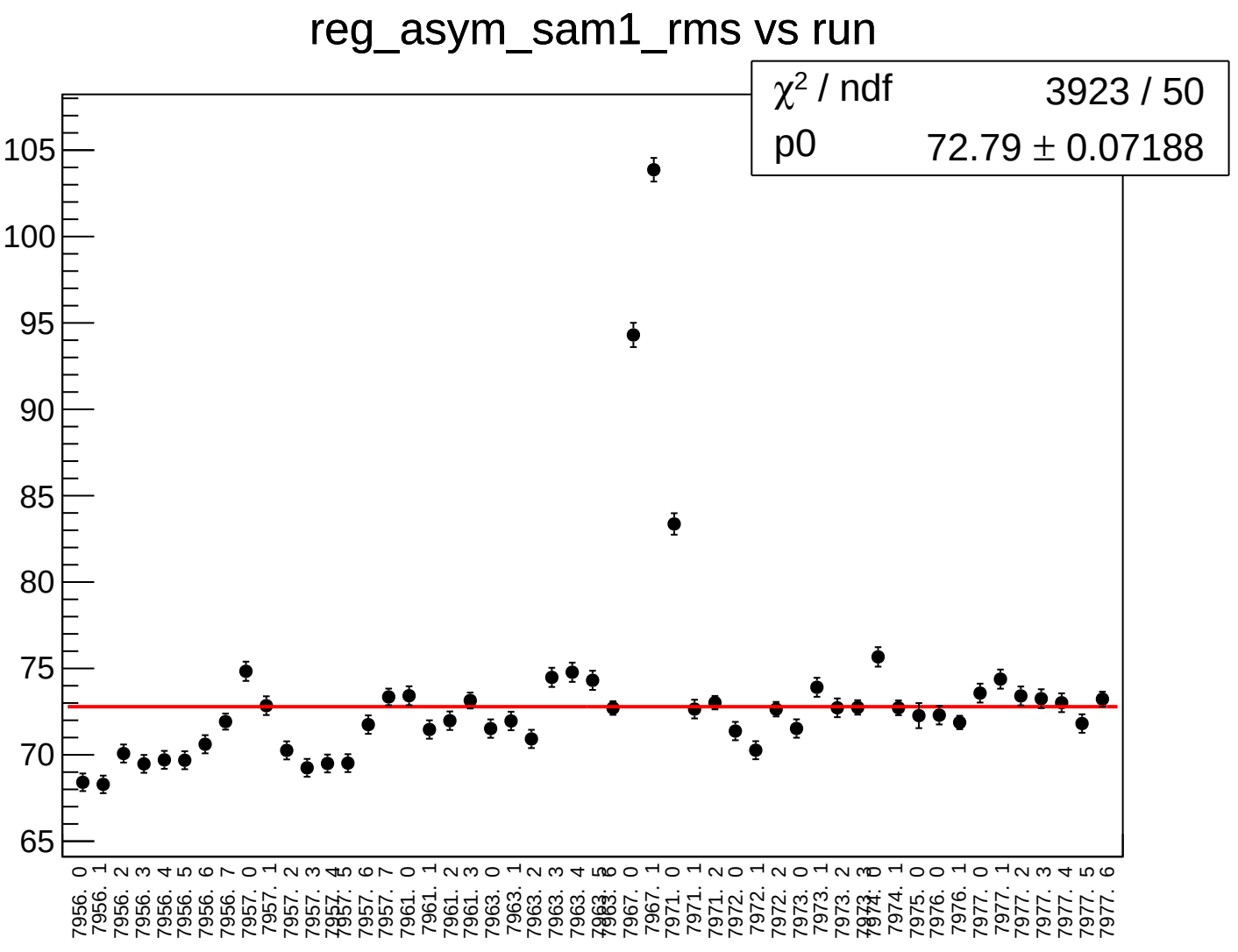

yield_sam8_mean vs run
χ² / ndf 1.408e+07 / 50
p0 8.939 ± 2.379e−05
9.05
9
8.95
8.9
8.85
8.8
pull
Entries 51
Mean 230.6
Std Dev 207.6
600
400
200
0
−200
−400
−600
−800

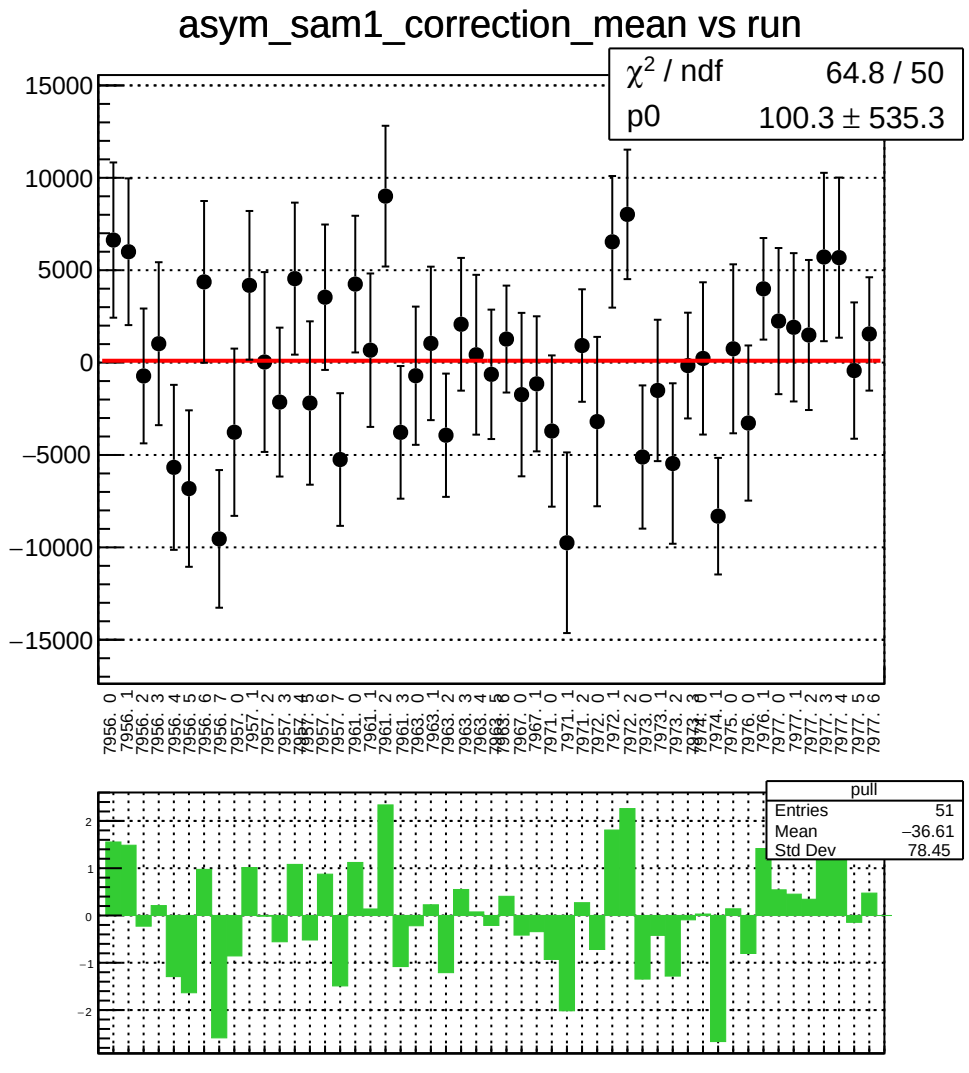

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

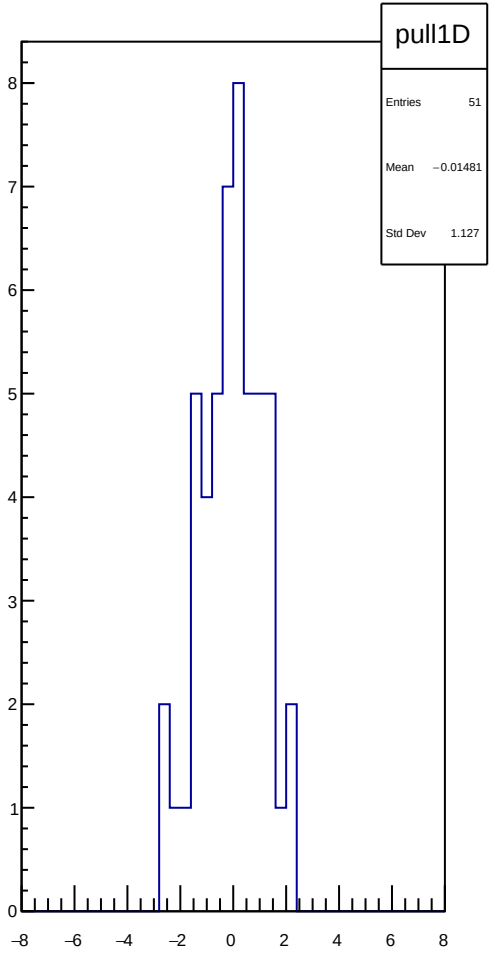

yield_sam8_rms vs run
χ² / ndf 4.671e+04 / 50
p0 0.01668 ± 1.682e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

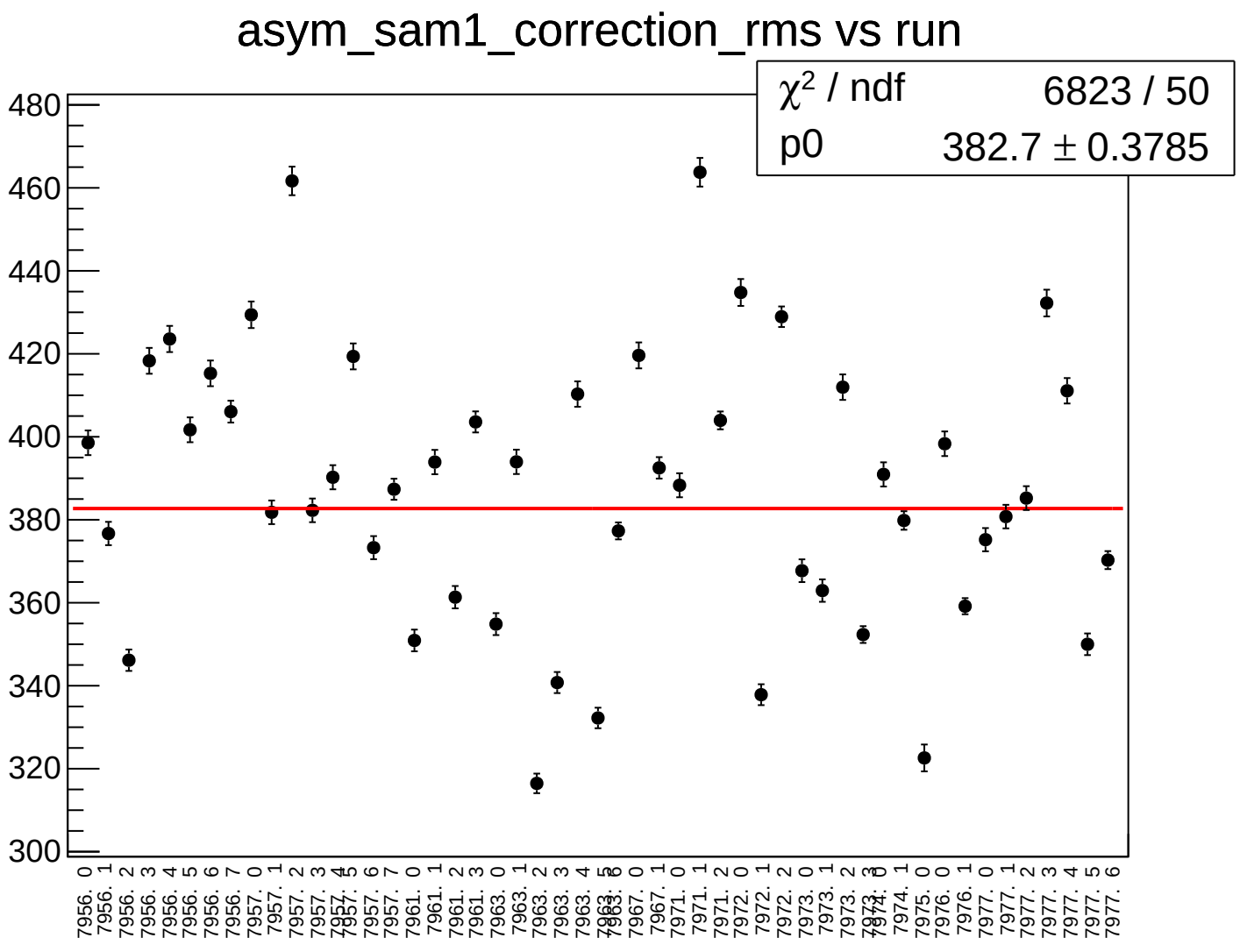

reg_asym_sam1_mean vs run
χ^2 / ndf 31.43 / 50
p0 99.42 ± 101.7
pull
Entries 51
Mean 47.45
Std Dev 27.09

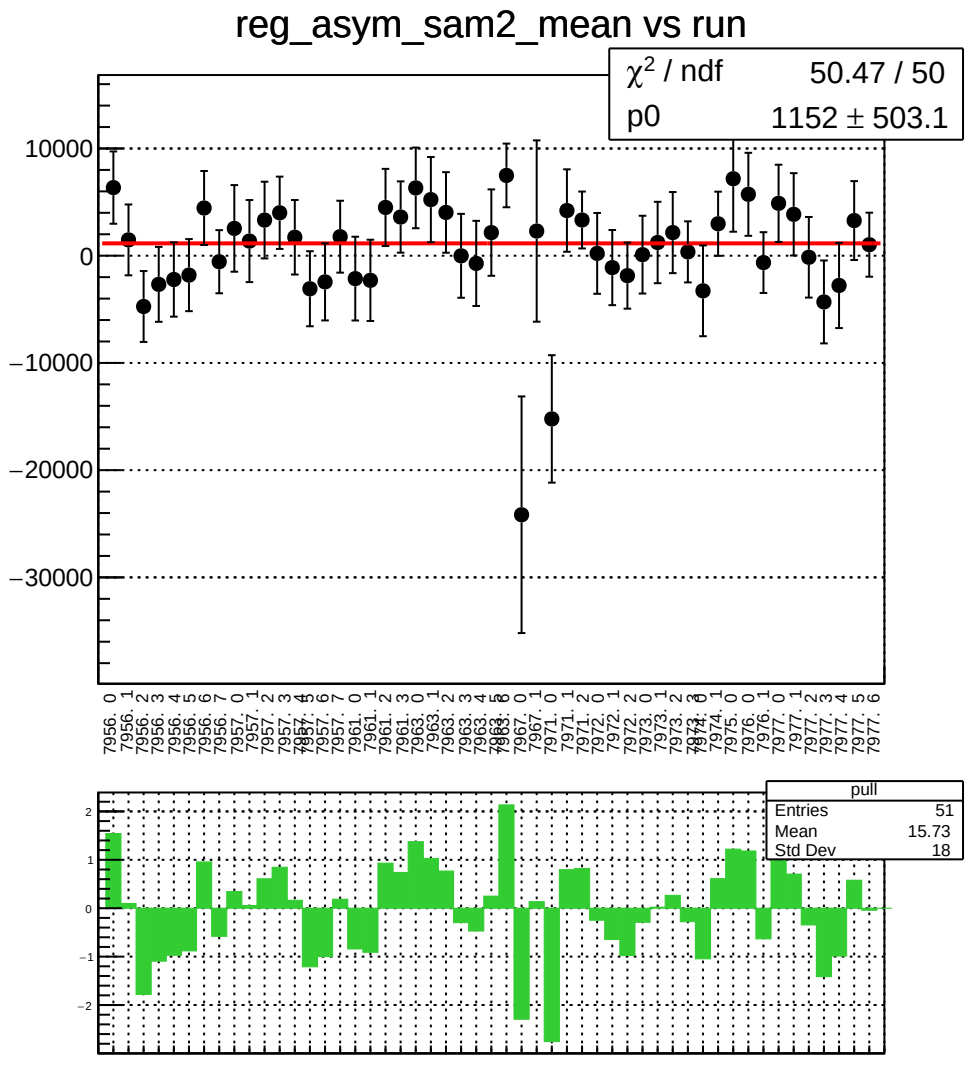

pull1D
Entries 51
Mean −0.01858
Std Dev 0.7848

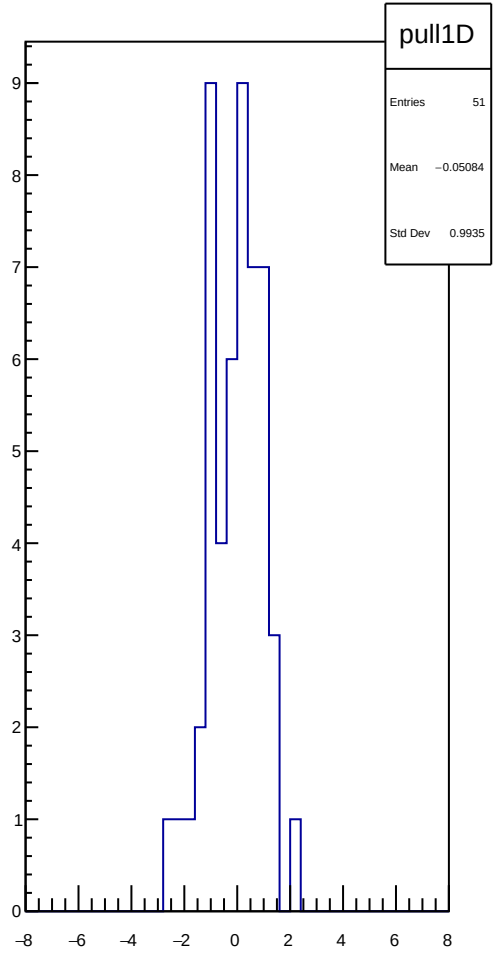

reg_asym_sam1_rms vs run
χ² / ndf 3923 / 50
p0 72.79 ± 0.07188
105
100
95
90
85
80
75
70
65
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

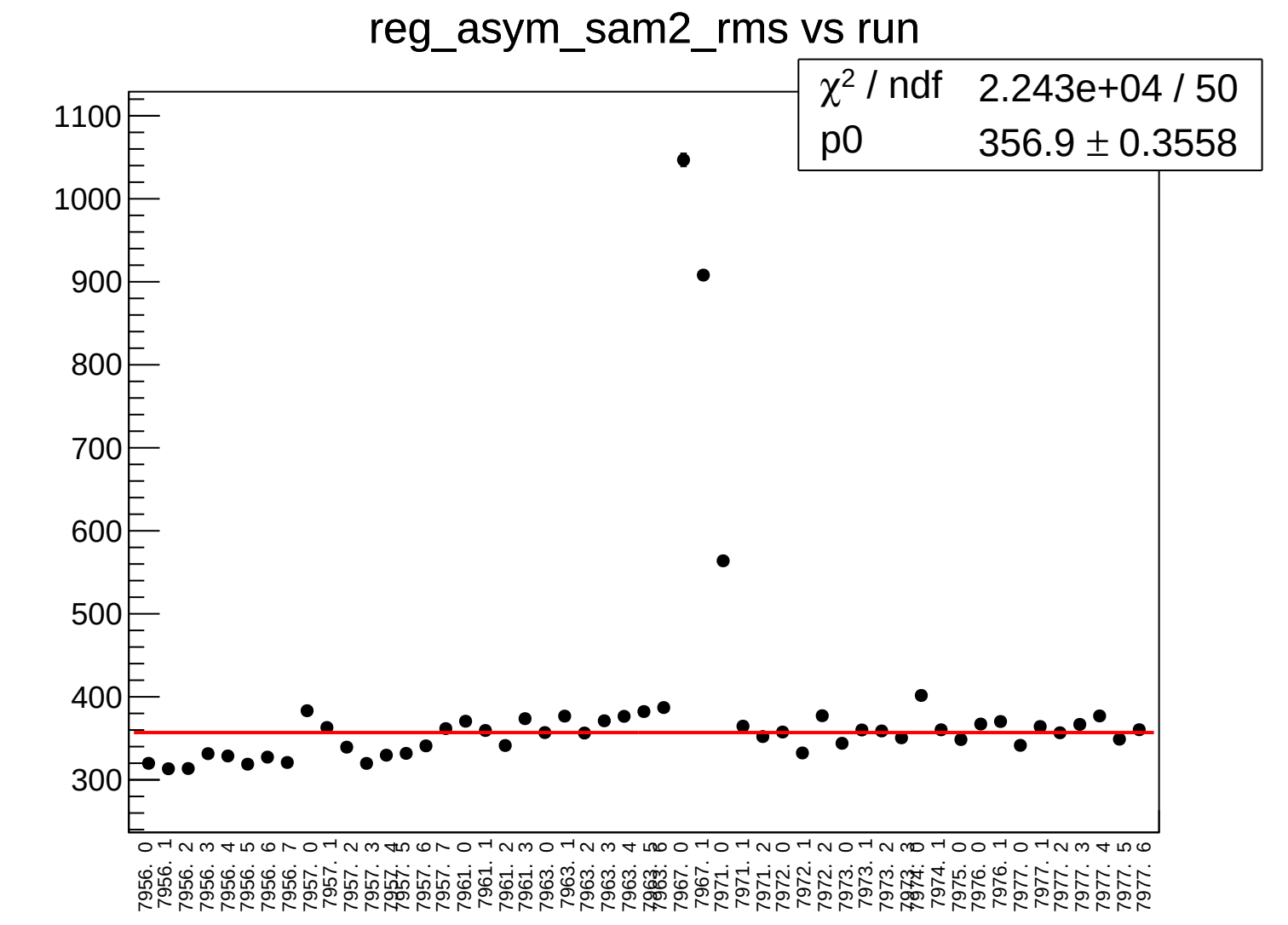

asym_sam1_correction_mean vs run
χ² / ndf 64.8 / 50
p0 100.3 ± 535.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −36.61
Std Dev 78.45
2
1
0
−1
−2

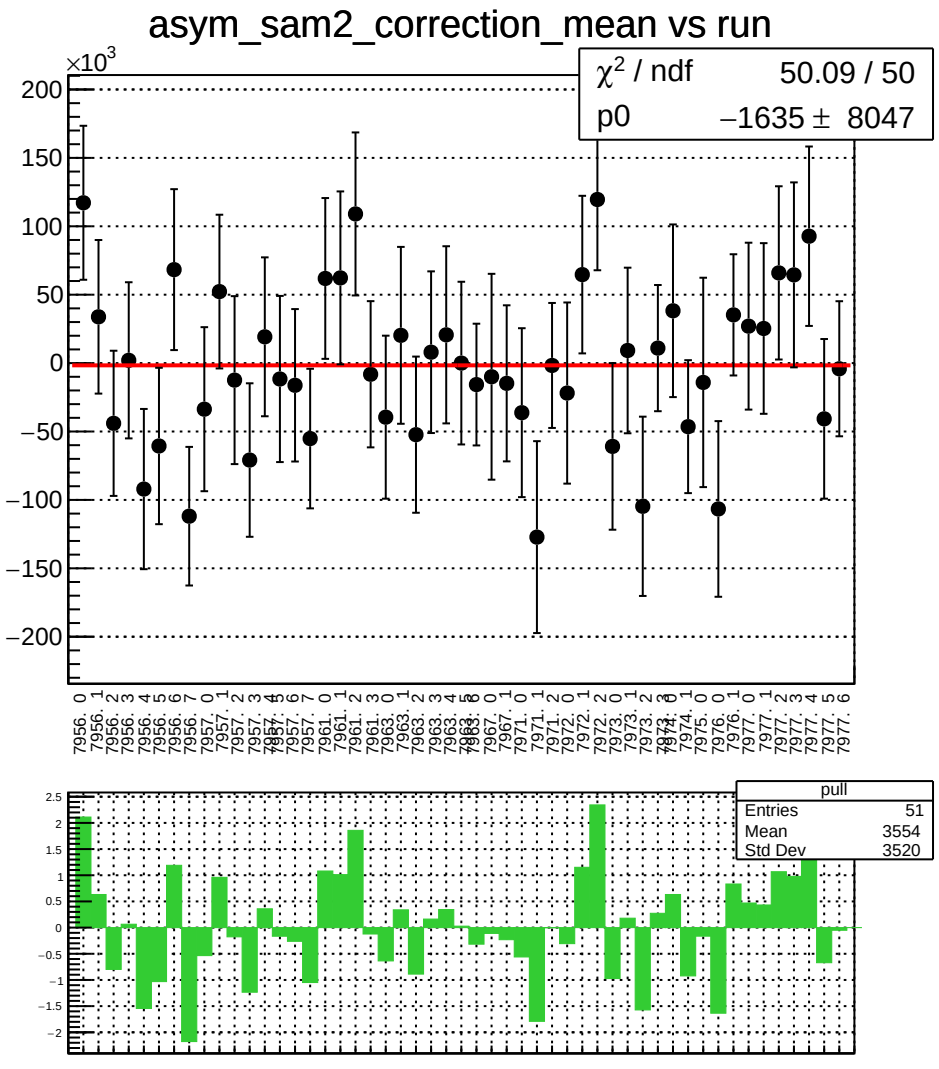

pull1D
Entries 51
Mean −0.01481
Std Dev 1.127
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

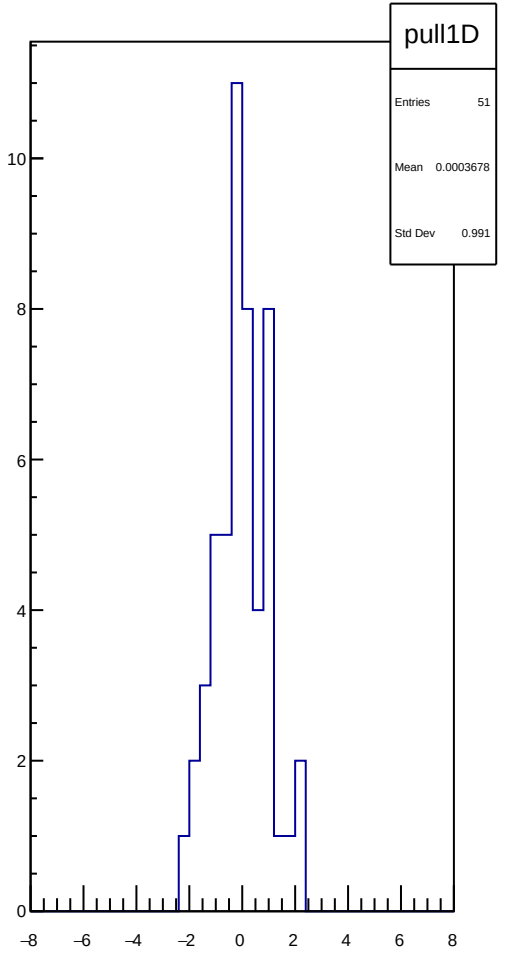

asym_sam1_correction_rms vs run
χ² / ndf 6823 / 50
p0 382.7 ± 0.3785
480
460
440
420
400
380
360
340
320
300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

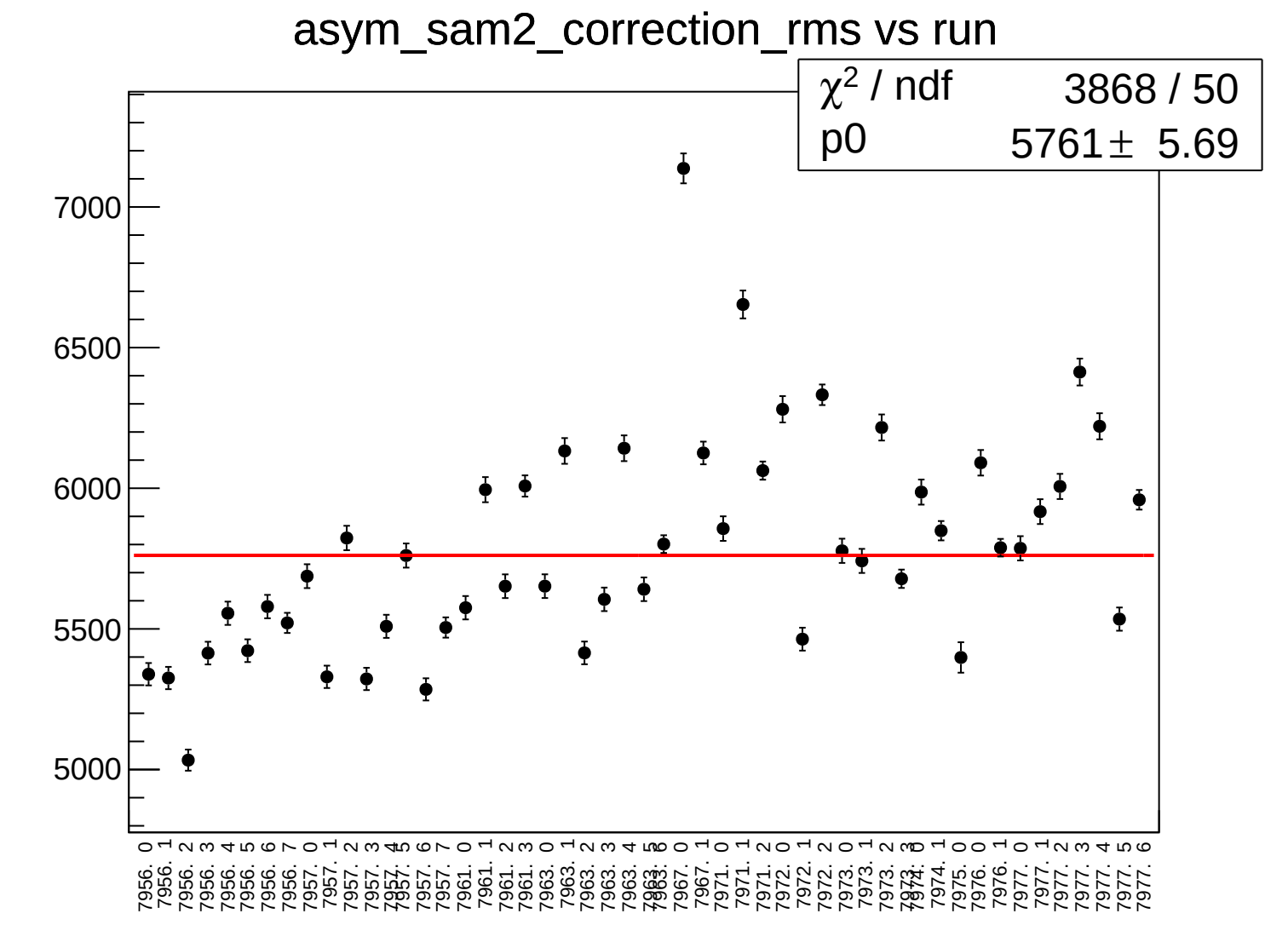

reg_asym_sam2_mean vs run
χ^2 / ndf 50.47 / 50
p0 1152 ± 503.1
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 15.73
Std Dev 18
2
1
0
−1
−2

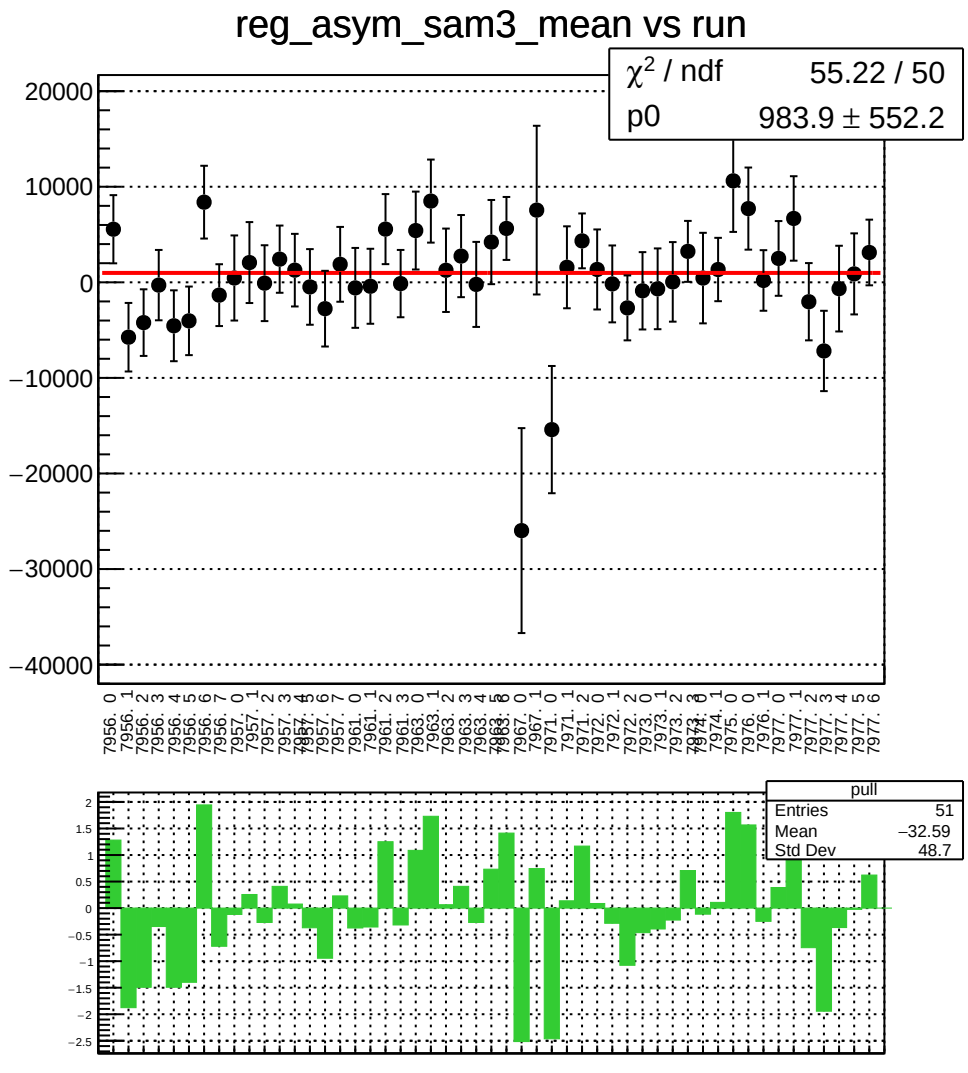

pull1D
Entries 51
Mean −0.05084
Std Dev 0.9935
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

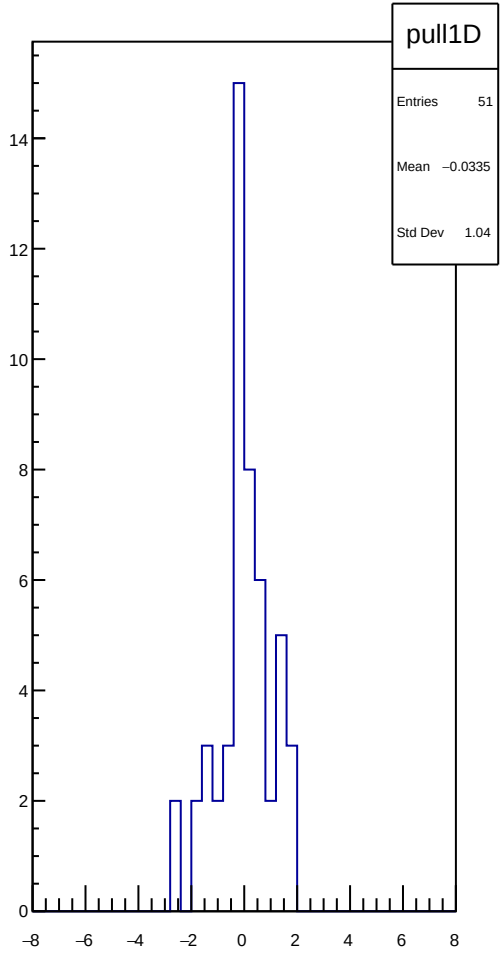

reg_asym_sam2_rms vs run
χ² / ndf 2.243e+04 / 50
p0 356.9 ± 0.3558
1100
1000
900
800
700
600
500
400
300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

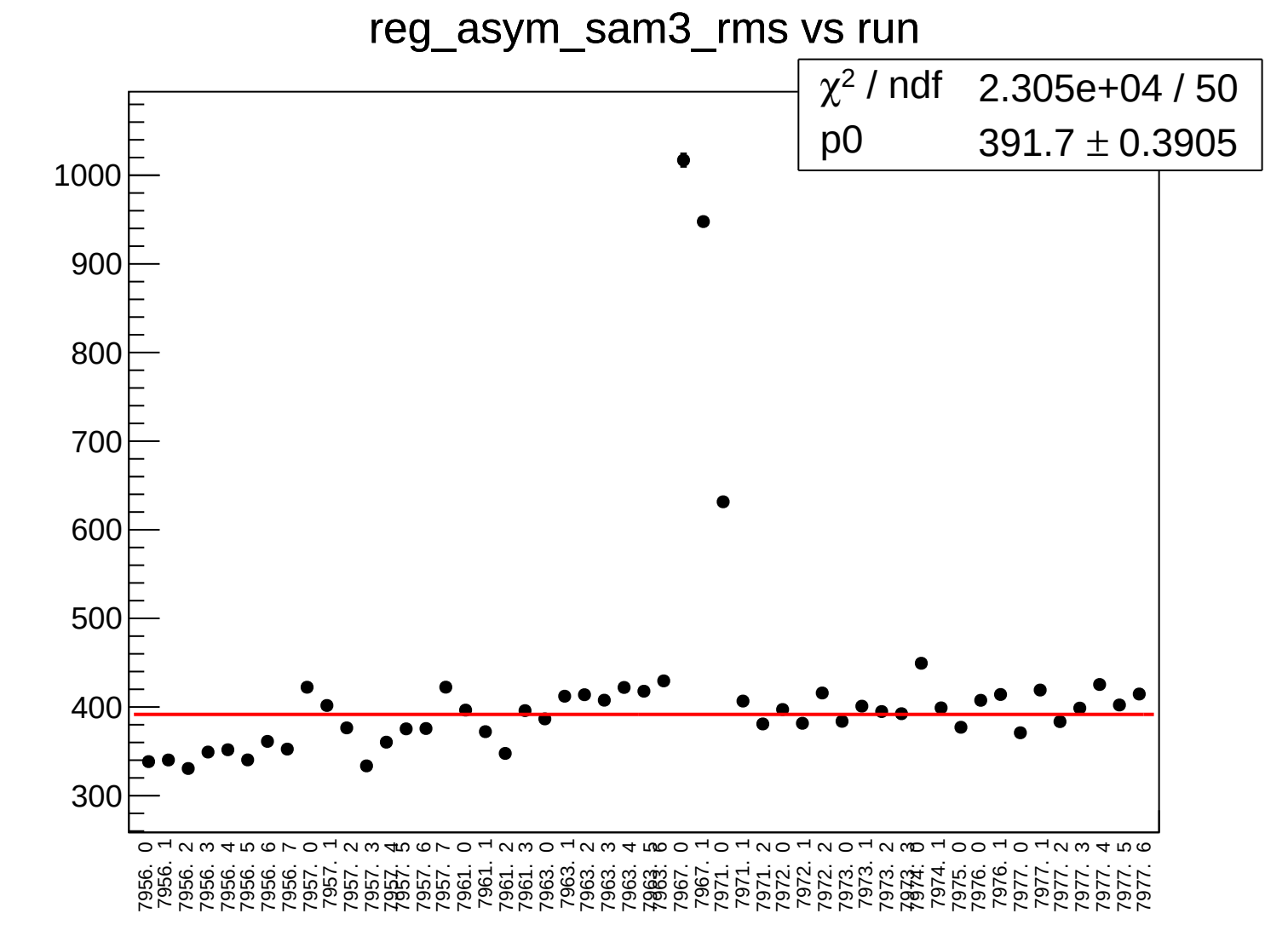

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 50.09 / 50
p0 −1635 ± 8047
pull
Entries 51
Mean 3554
Std Dev 3520


pull1D
Entries 51
Mean 0.0003678
Std Dev 0.991


asym_sam2_correction_rms vs run
χ² / ndf 3868 / 50
p0 5761 ± 5.69
7000
6500
6000
5500
5000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam3_mean vs run
χ² / ndf 55.22 / 50
p0 983.9 ± 552.2
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 51
Mean −32.59
Std Dev 48.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.0335
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam3_rms vs run
χ² / ndf 2.305e+04 / 50
p0 391.7 ± 0.3905
1000
900
800
700
600
500
400
300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
7977. 0
7977. 1
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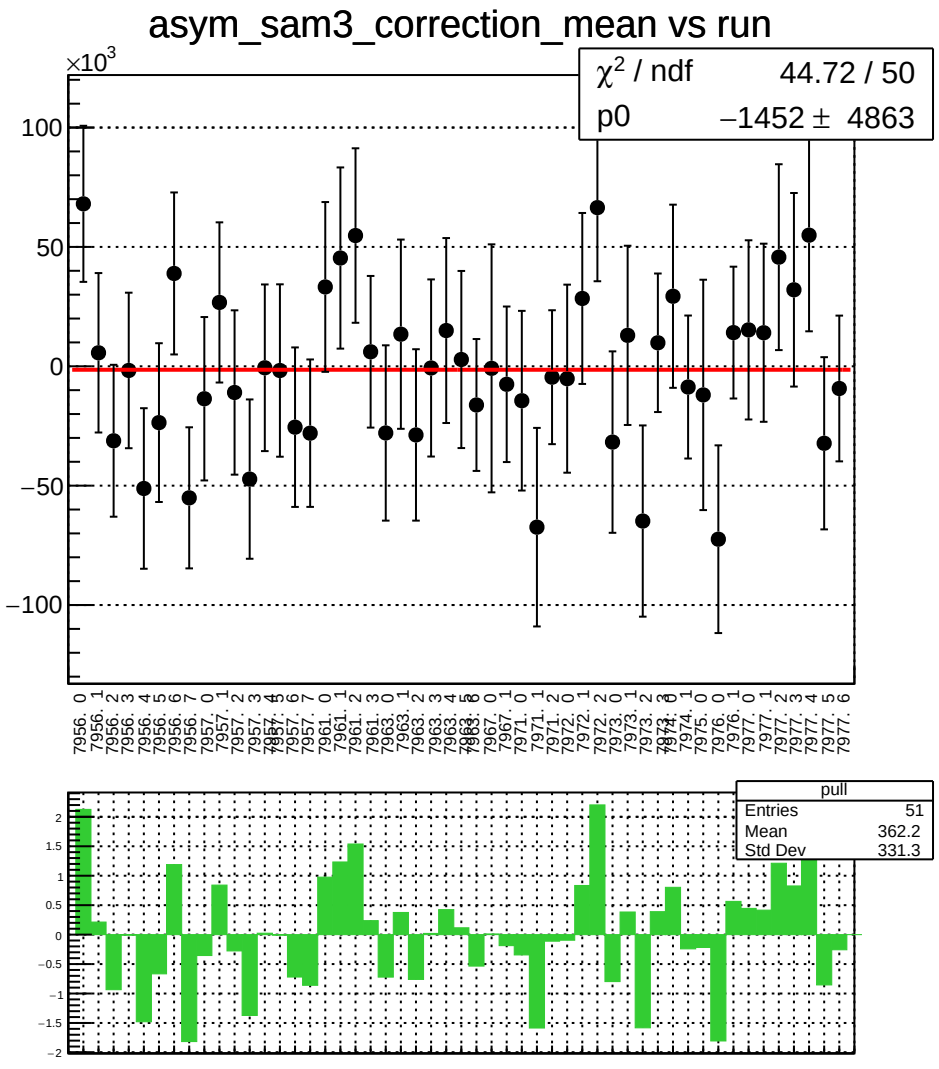
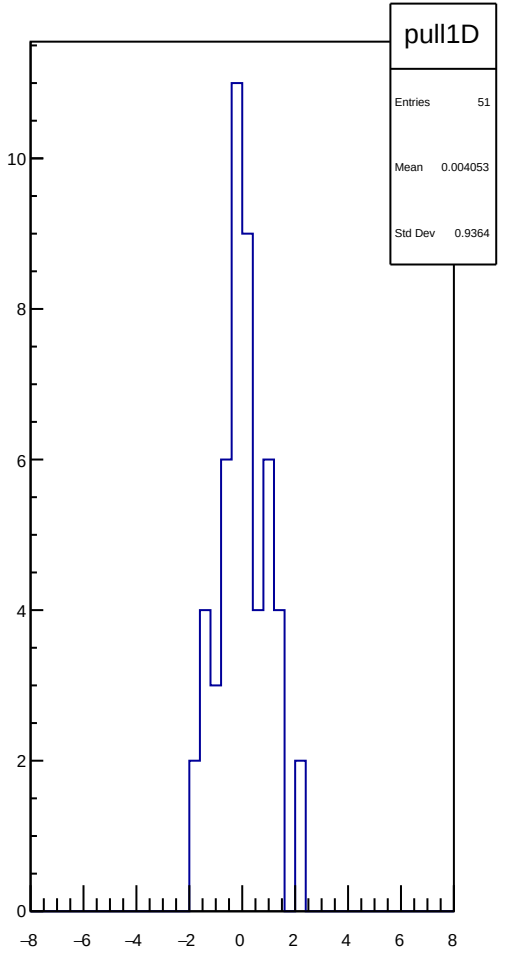
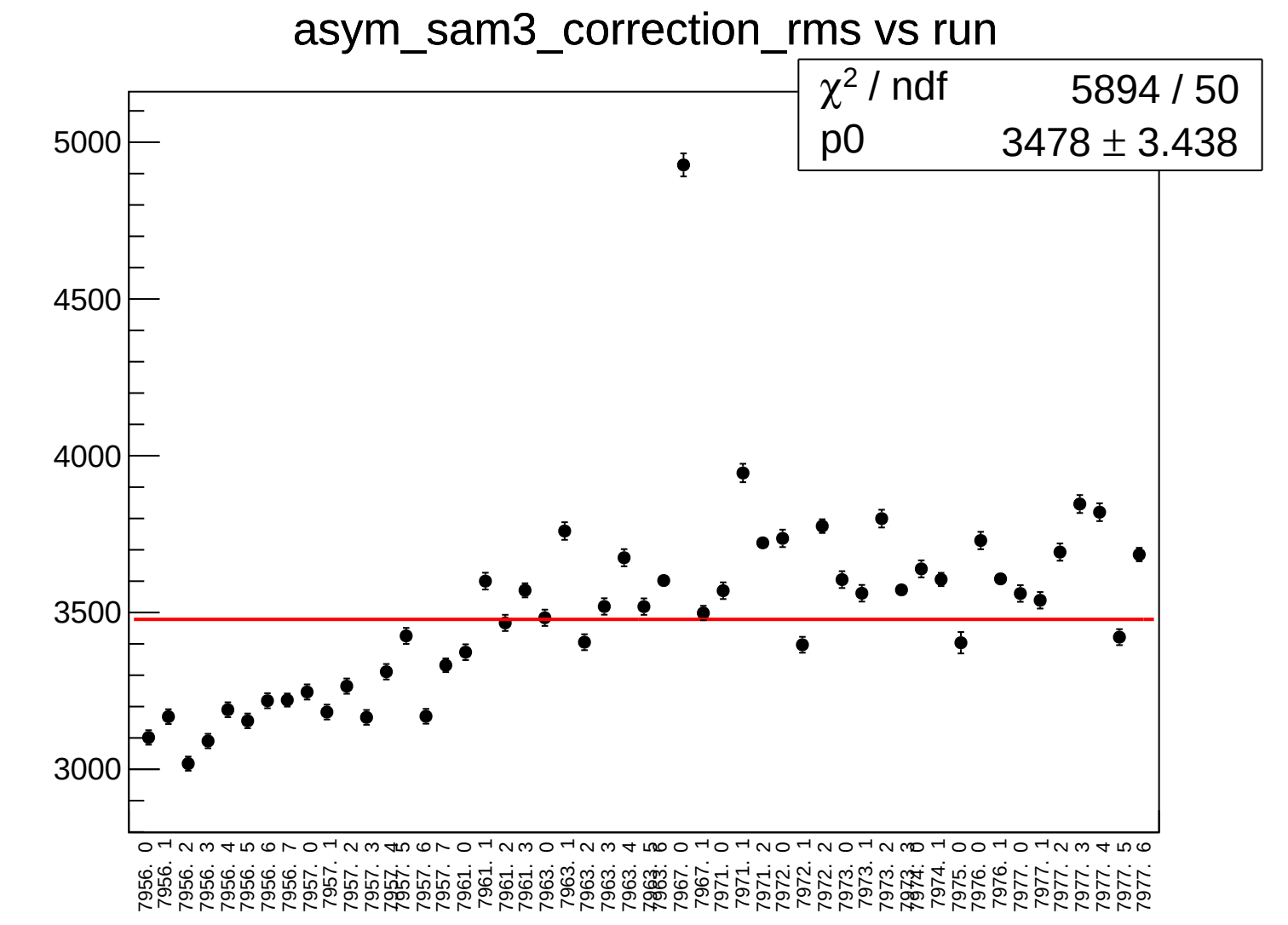
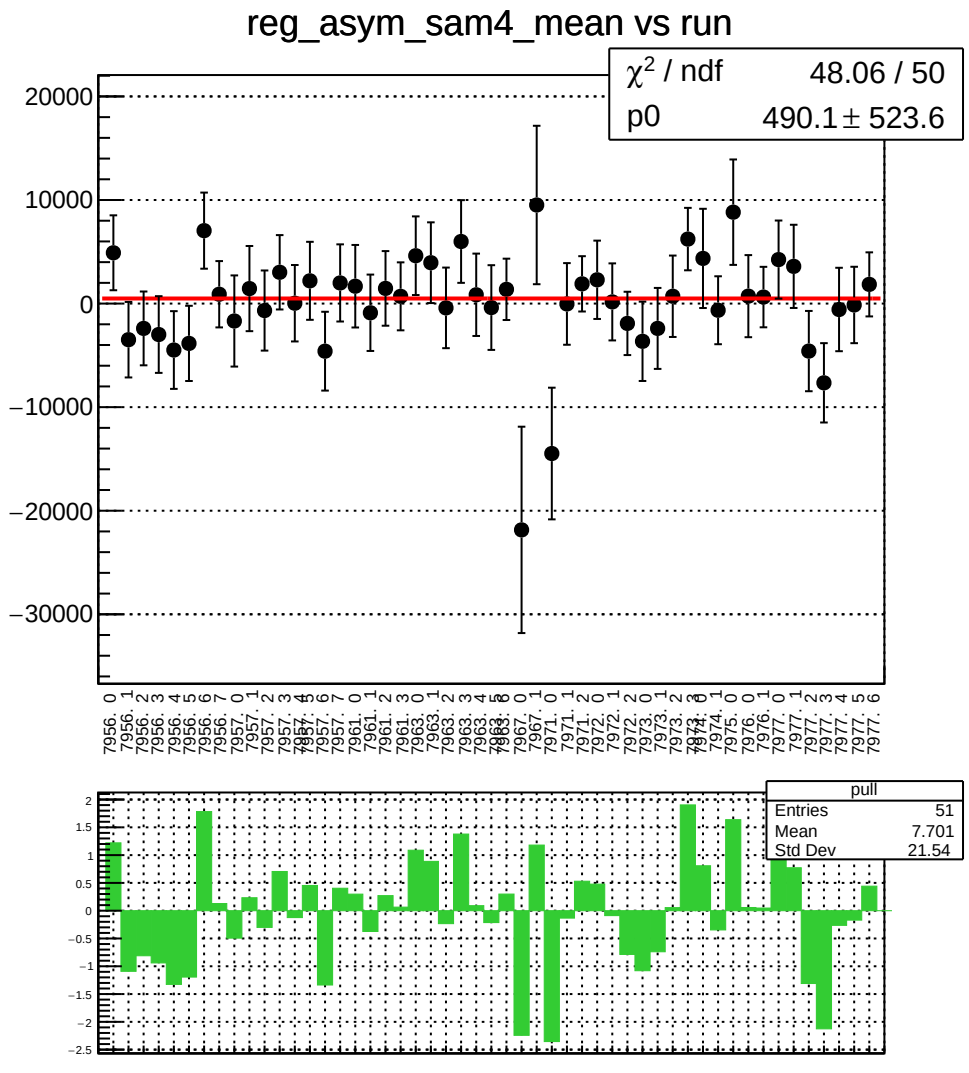
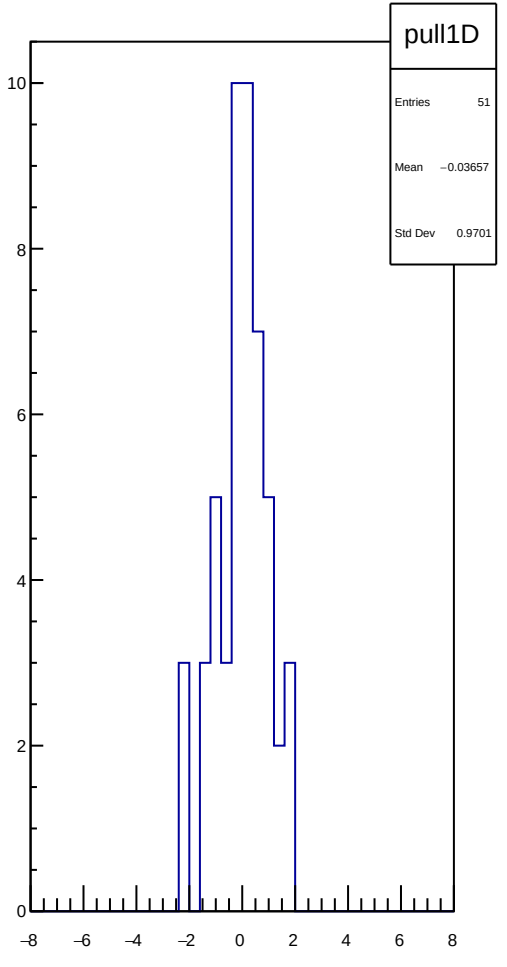
7977. 3
7977. 4
7977. 5
7977. 6

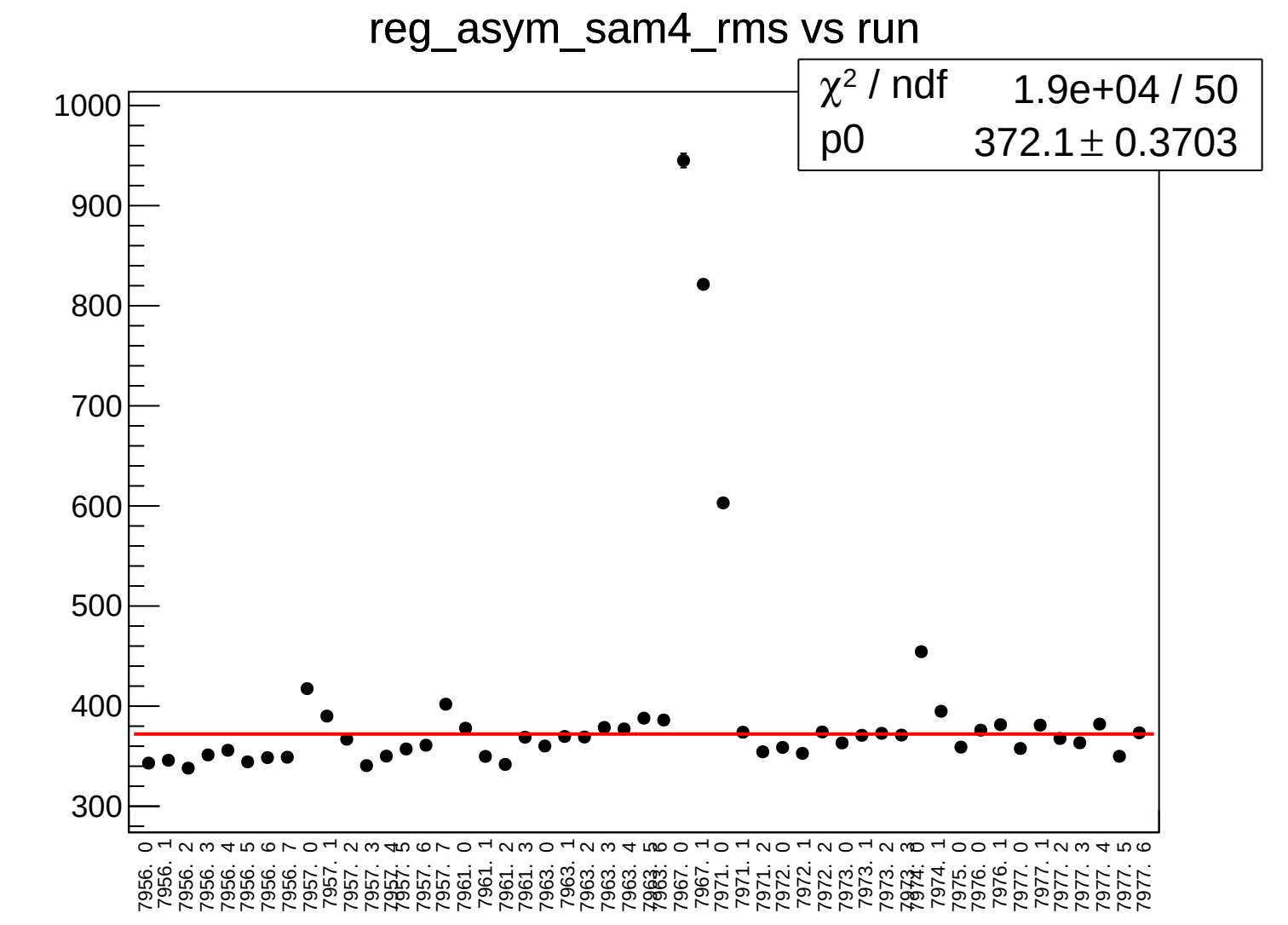

asym_sam3_correction_mean vs run
×10^3
χ² / ndf 44.72 / 50
p0 −1452 ± 4863
100
50
0
−50
−100
pull
Entries 51
Mean 362.2
Std Dev 331.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

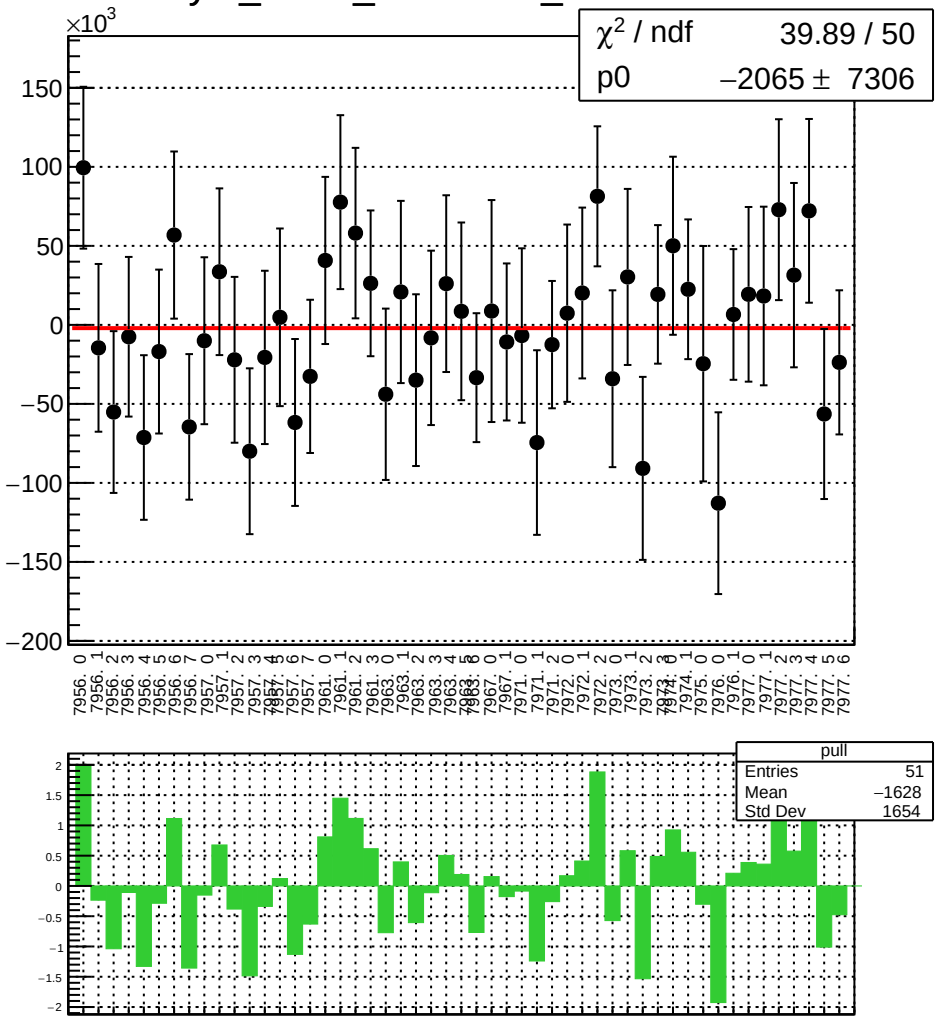

pull1D
Entries 51
Mean 0.004053
Std Dev 0.9364
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

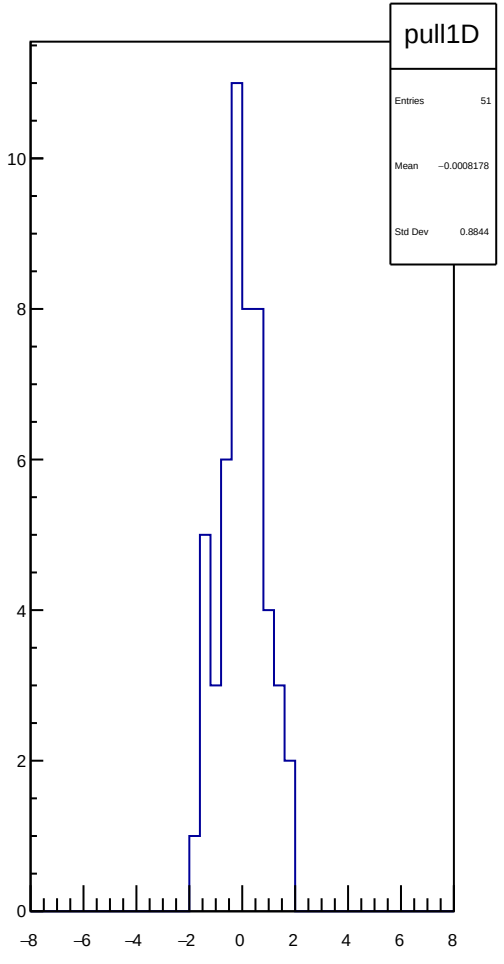

asym_sam3_correction_rms vs run
χ^2 / ndf 5894 / 50
p0 3478 ± 3.438
5000
4500
4000
3500
3000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

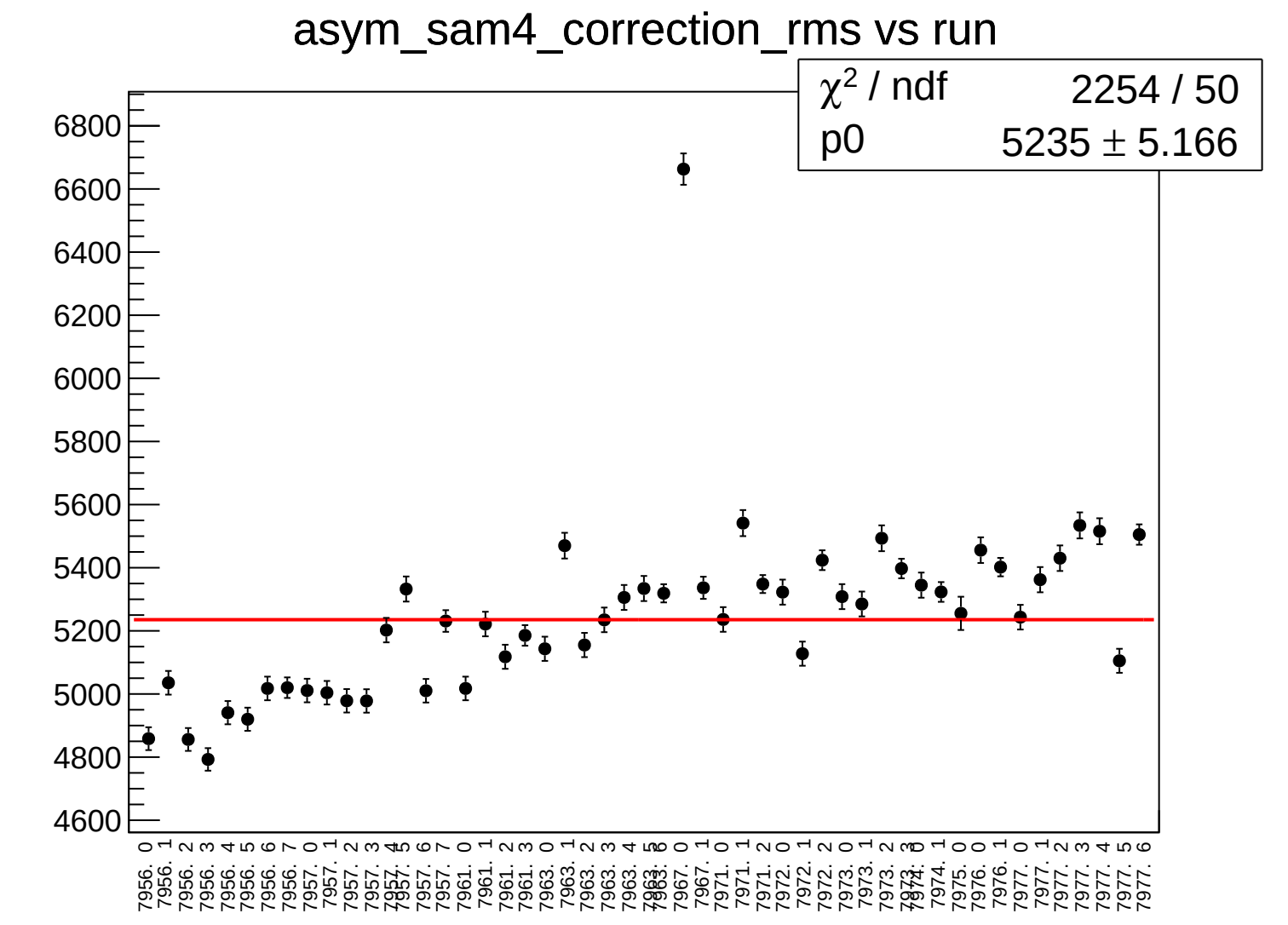

reg_asym_sam4_mean vs run
χ² / ndf 48.06 / 50
p0 490.1 ± 523.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 7.701
Std Dev 21.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

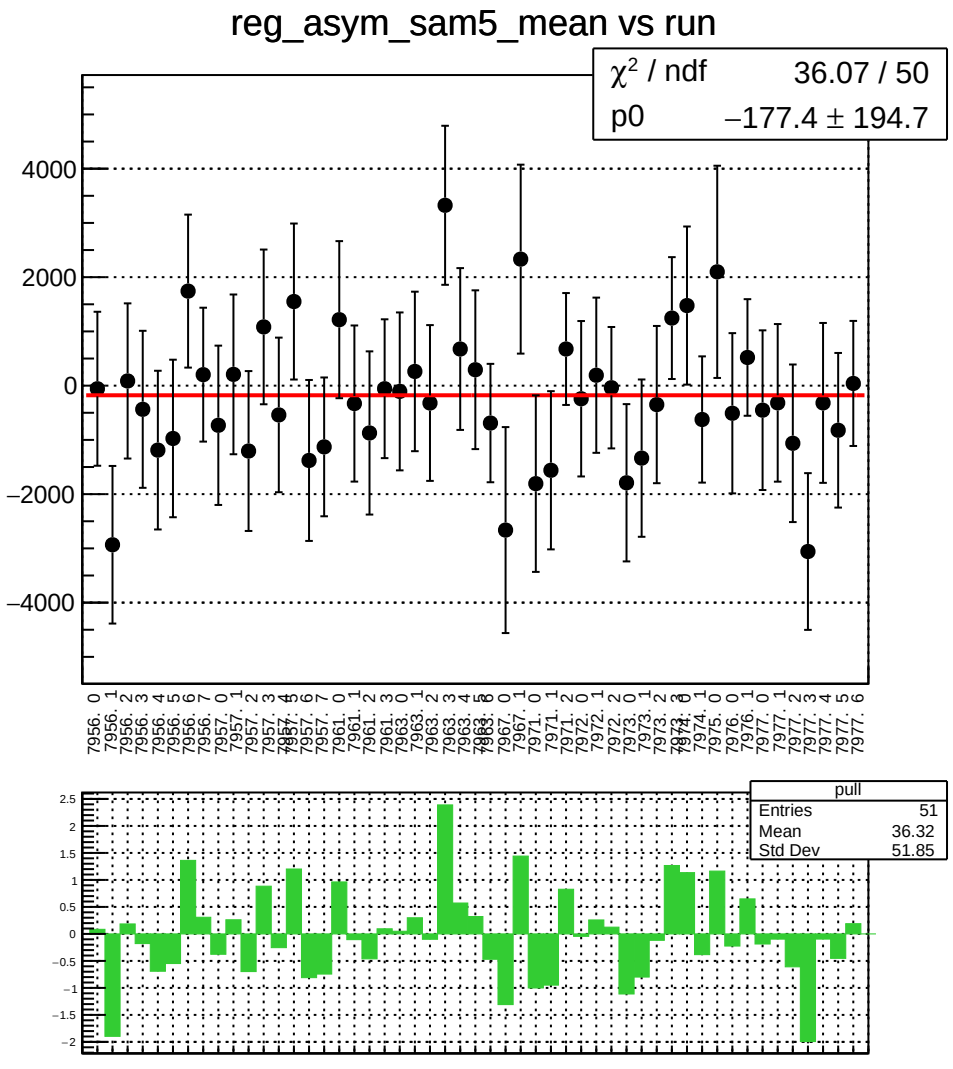

pull1D
Entries 51
Mean −0.03657
Std Dev 0.9701
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

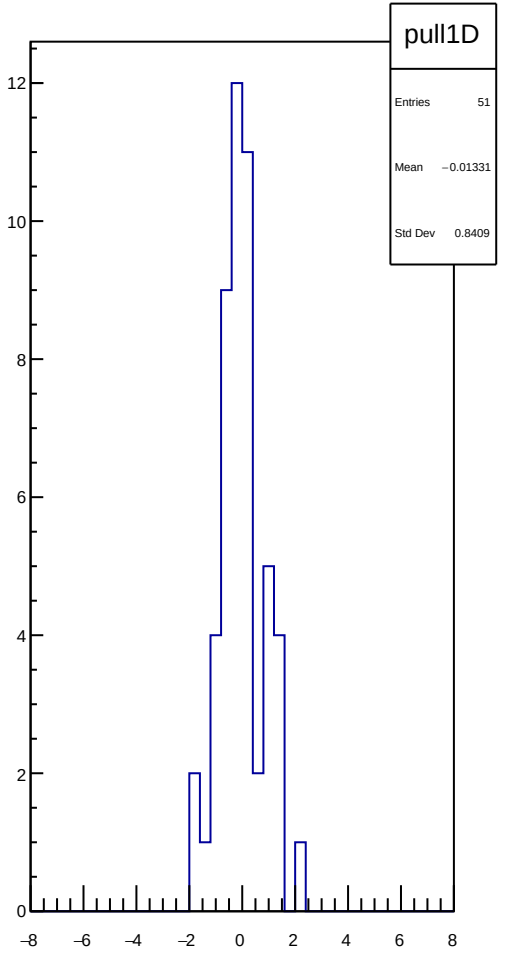

reg_asym_sam4_rms vs run
χ² / ndf 1.9e+04 / 50
p0 372.1 ± 0.3703
1000
900
800
700
600
500
400
300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

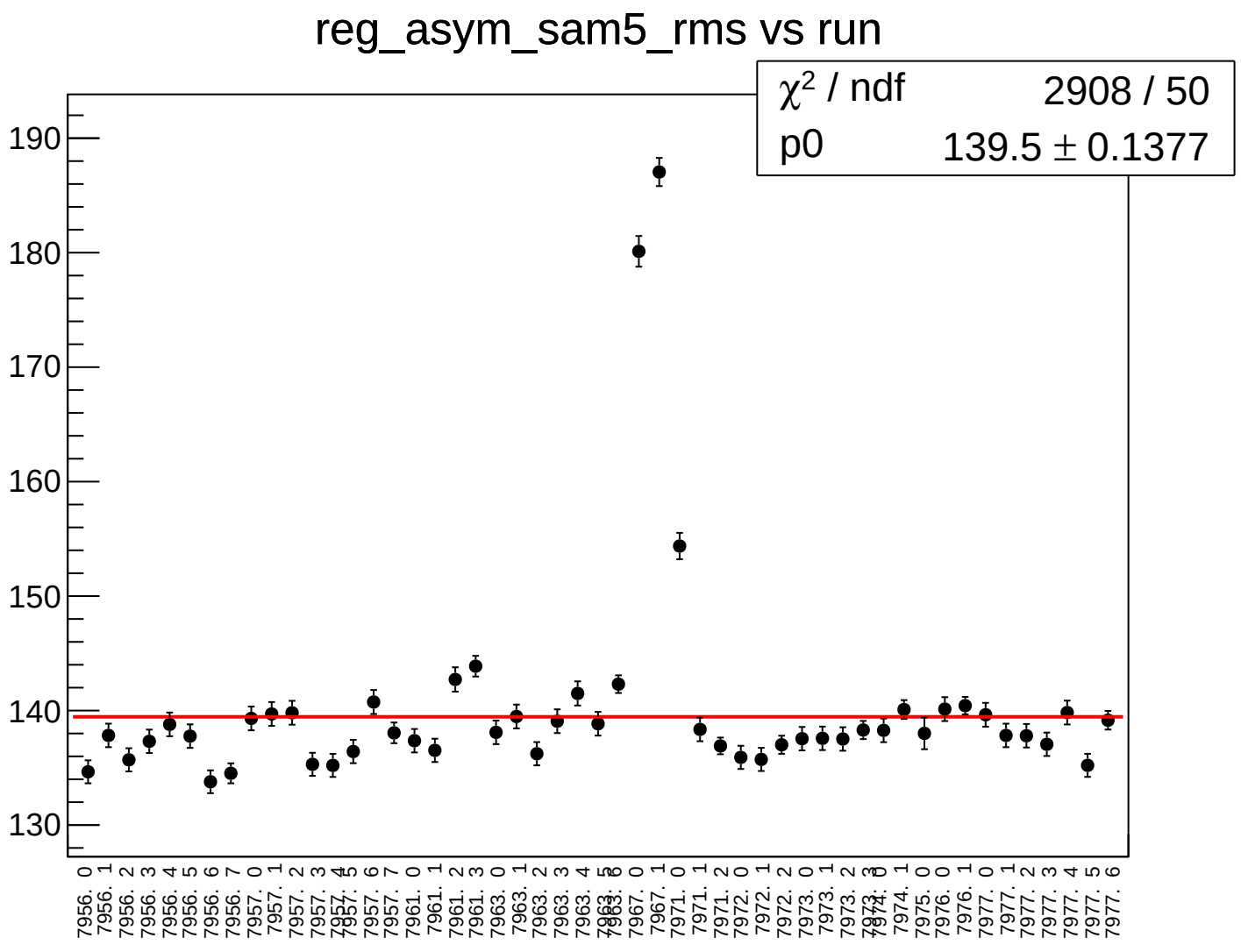

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 39.89 / 50
p0 −2065 ± 7306
150
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean −1628
Std Dev 1654
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

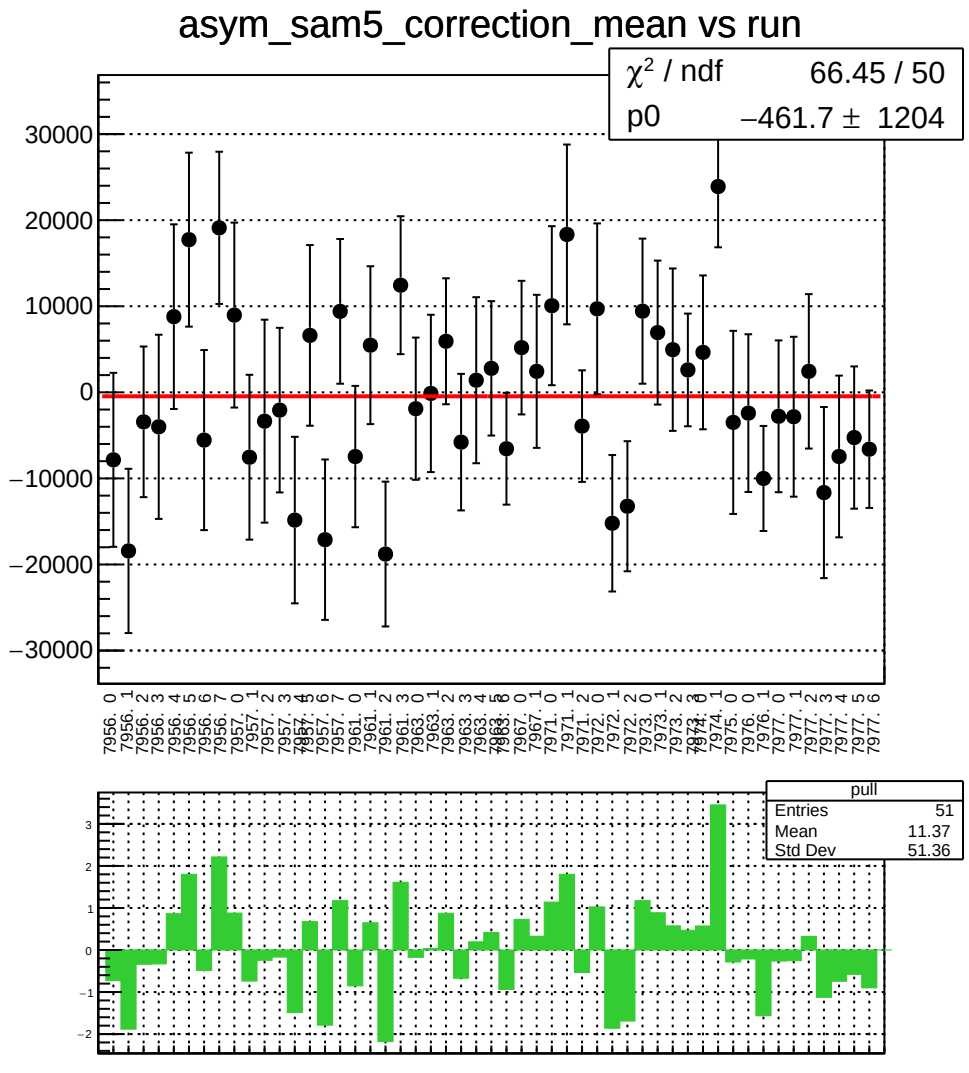

pull1D
Entries 51
Mean −0.0008178
Std Dev 0.8844
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

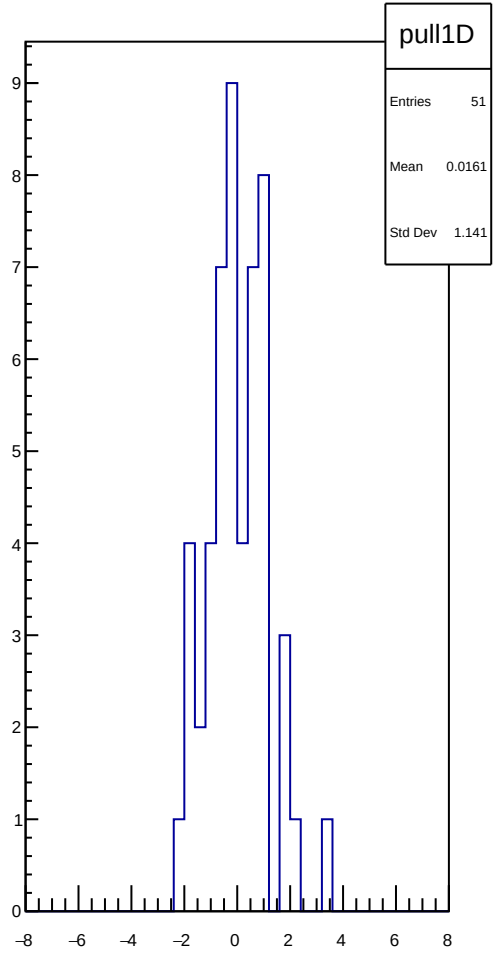

asym_sam4_correction_rms vs run
χ² / ndf 2254 / 50
p0 5235 ± 5.166
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

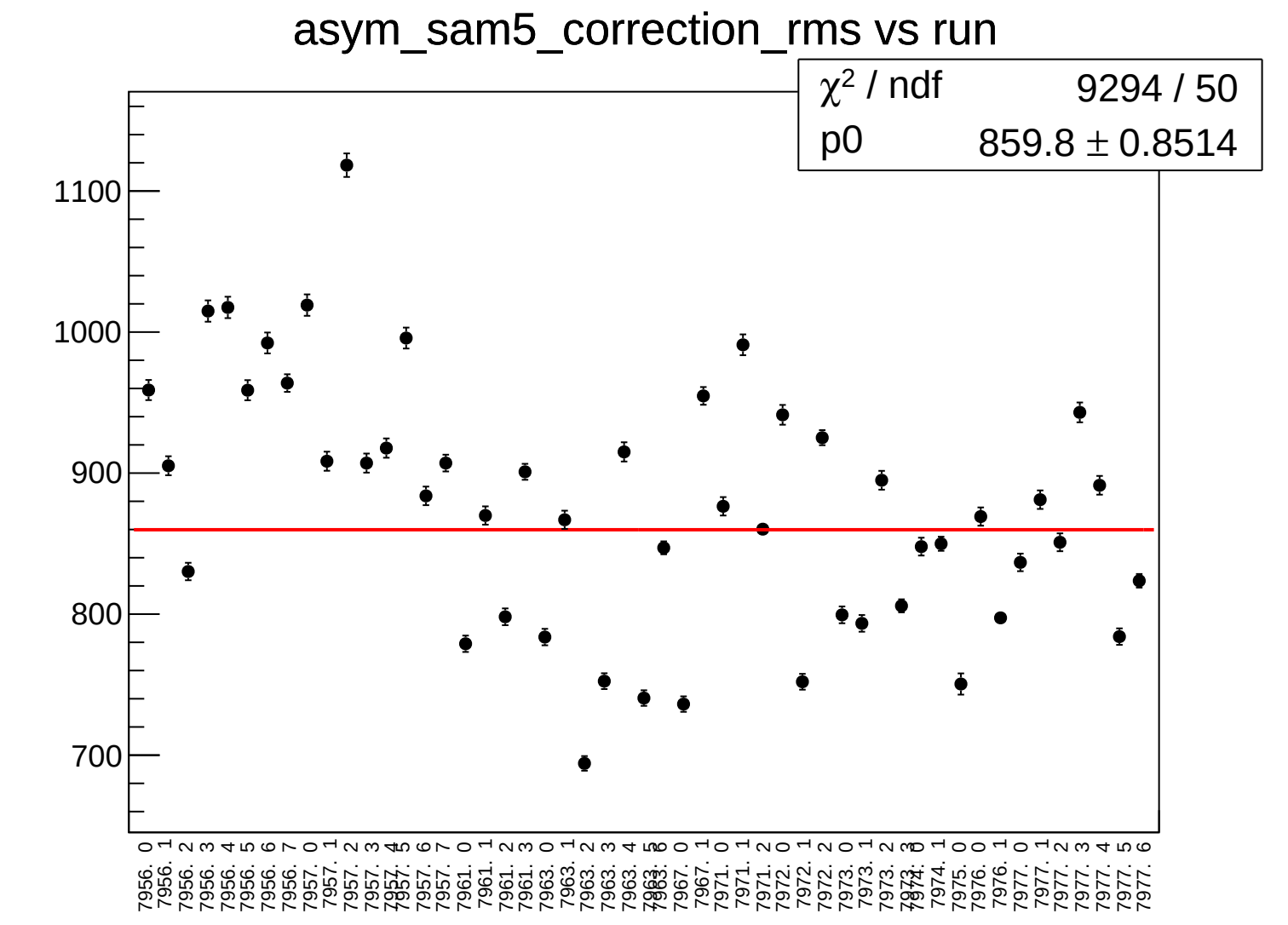

reg_asym_sam5_mean vs run
χ² / ndf 36.07 / 50
p0 −177.4 ± 194.7
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 36.32
Std Dev 51.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.01331
Std Dev 0.8409
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam5_rms vs run
χ² / ndf 2908 / 50
p0 139.5 ± 0.1377
190
180
170
160
150
140
130
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam5_correction_mean vs run
χ² / ndf 66.45 / 50
p0 −461.7 ± 1204
pull
Entries 51
Mean 11.37
Std Dev 51.36


pull1D
Entries 51
Mean 0.0161
Std Dev 1.141


asym_sam5_correction_rms vs run
χ² / ndf 9294 / 50
p0 859.8 ± 0.8514
1100
1000
900
800
700
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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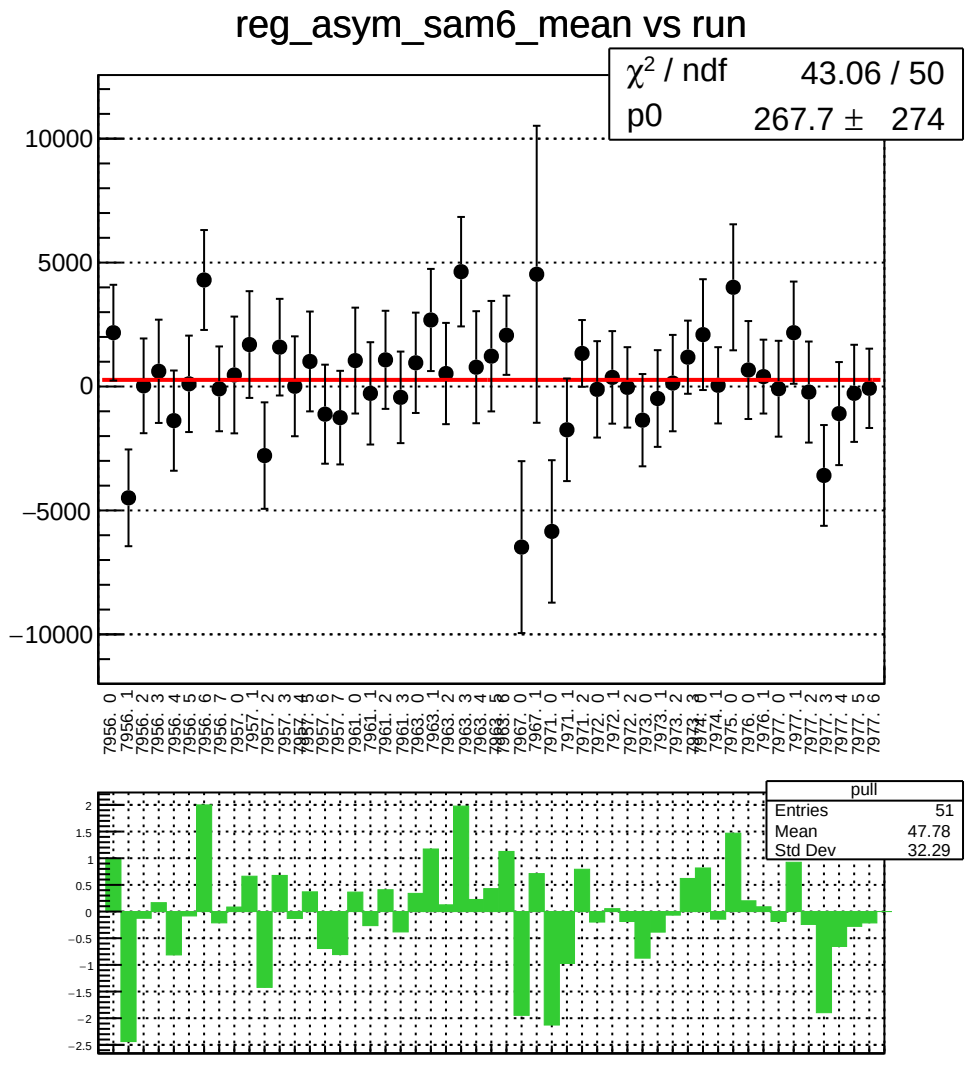
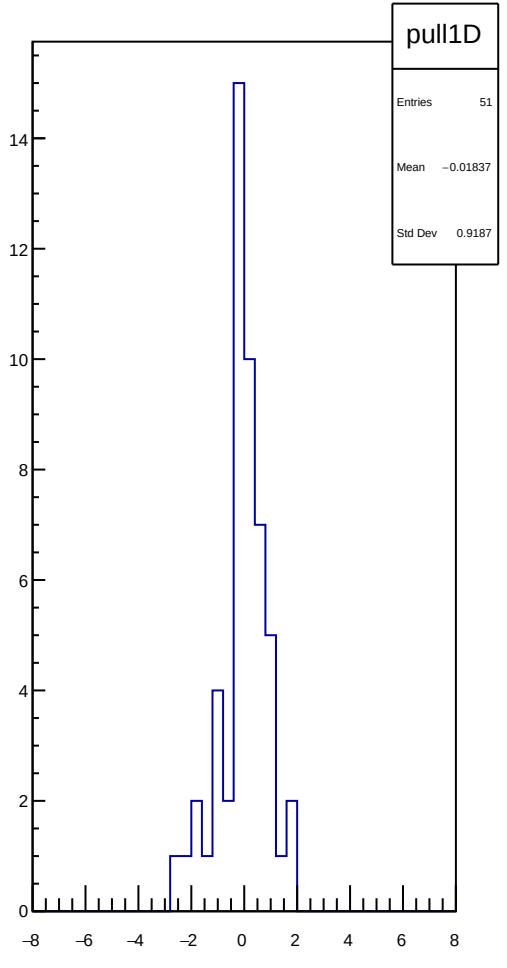
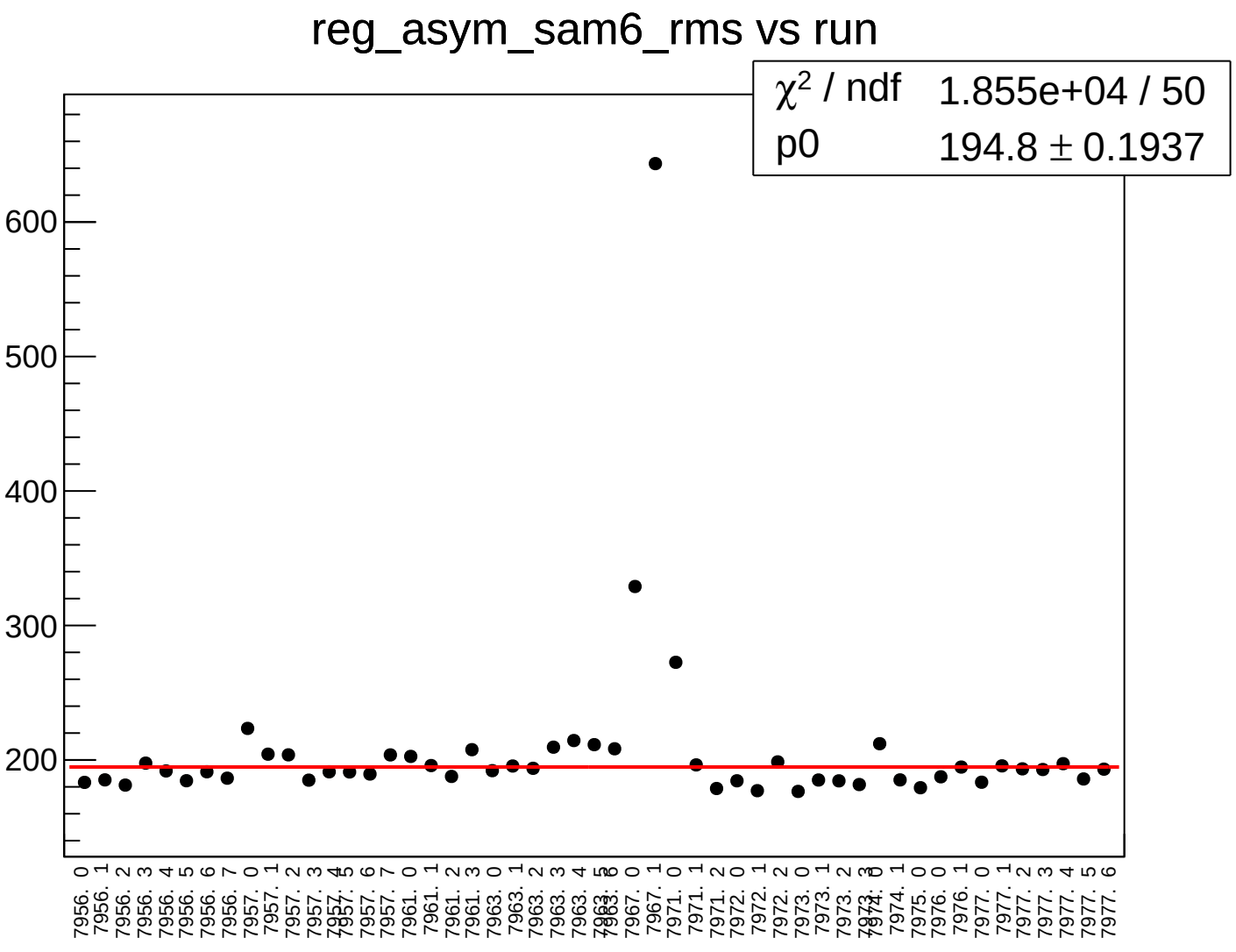
7977. 5
7977. 6


reg_asym_sam6_mean vs run
χ² / ndf 43.06 / 50
p0 267.7 ± 274
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 47.78
Std Dev 32.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.01837
Std Dev 0.9187
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam6_rms vs run
χ² / ndf 1.855e+04 / 50
p0 194.8 ± 0.1937
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7977. 0
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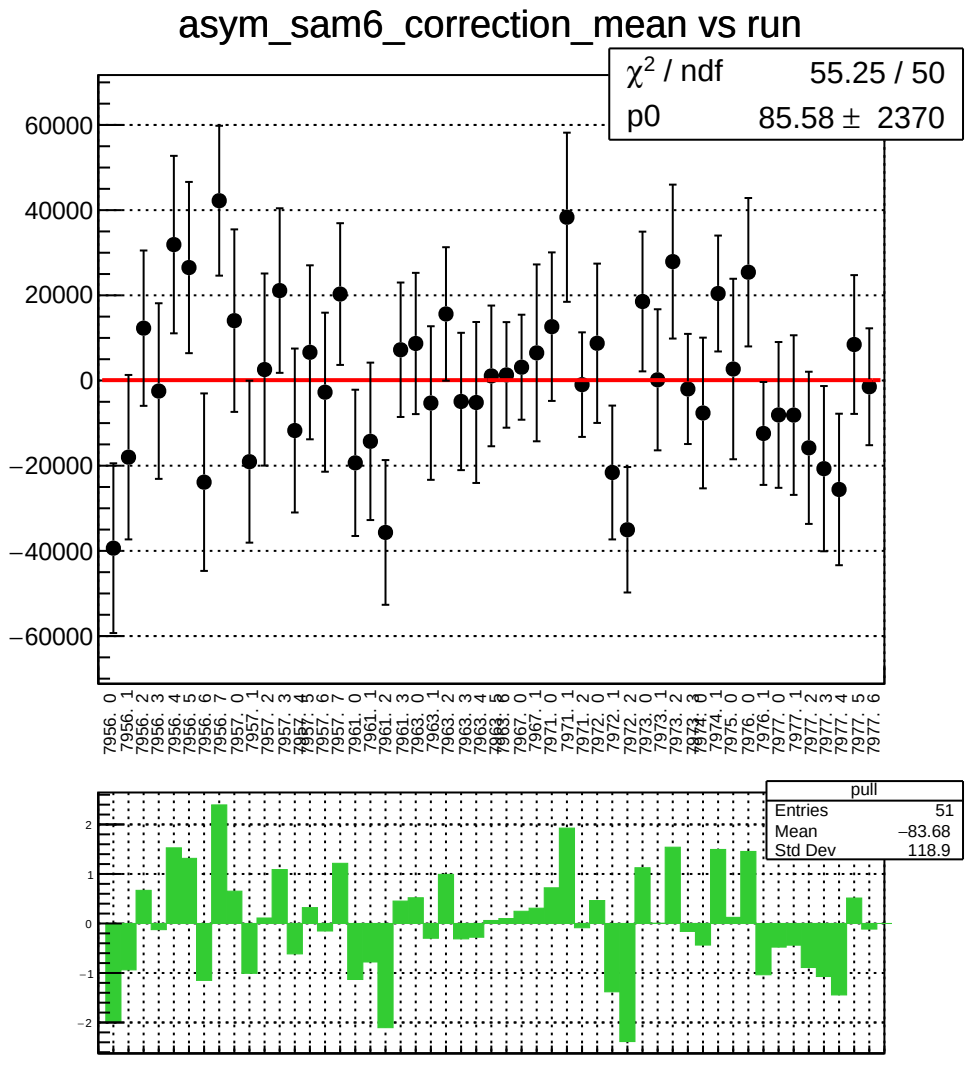
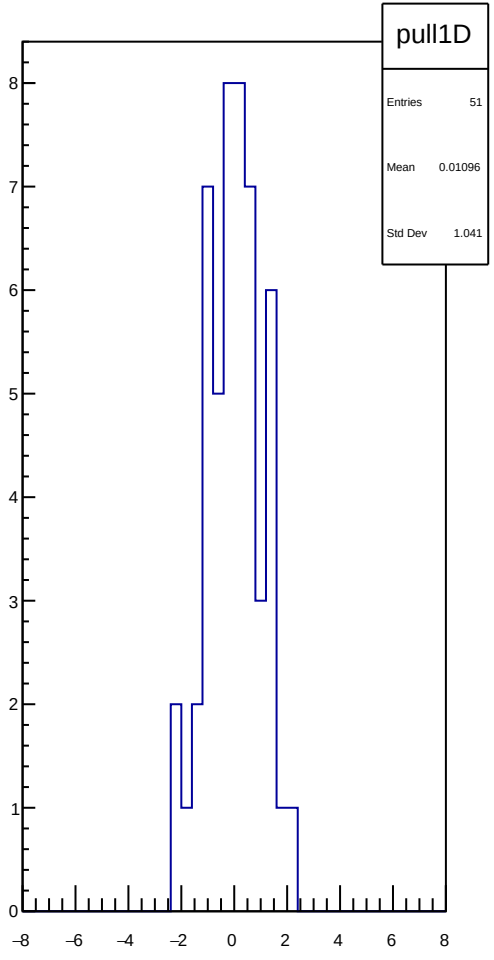
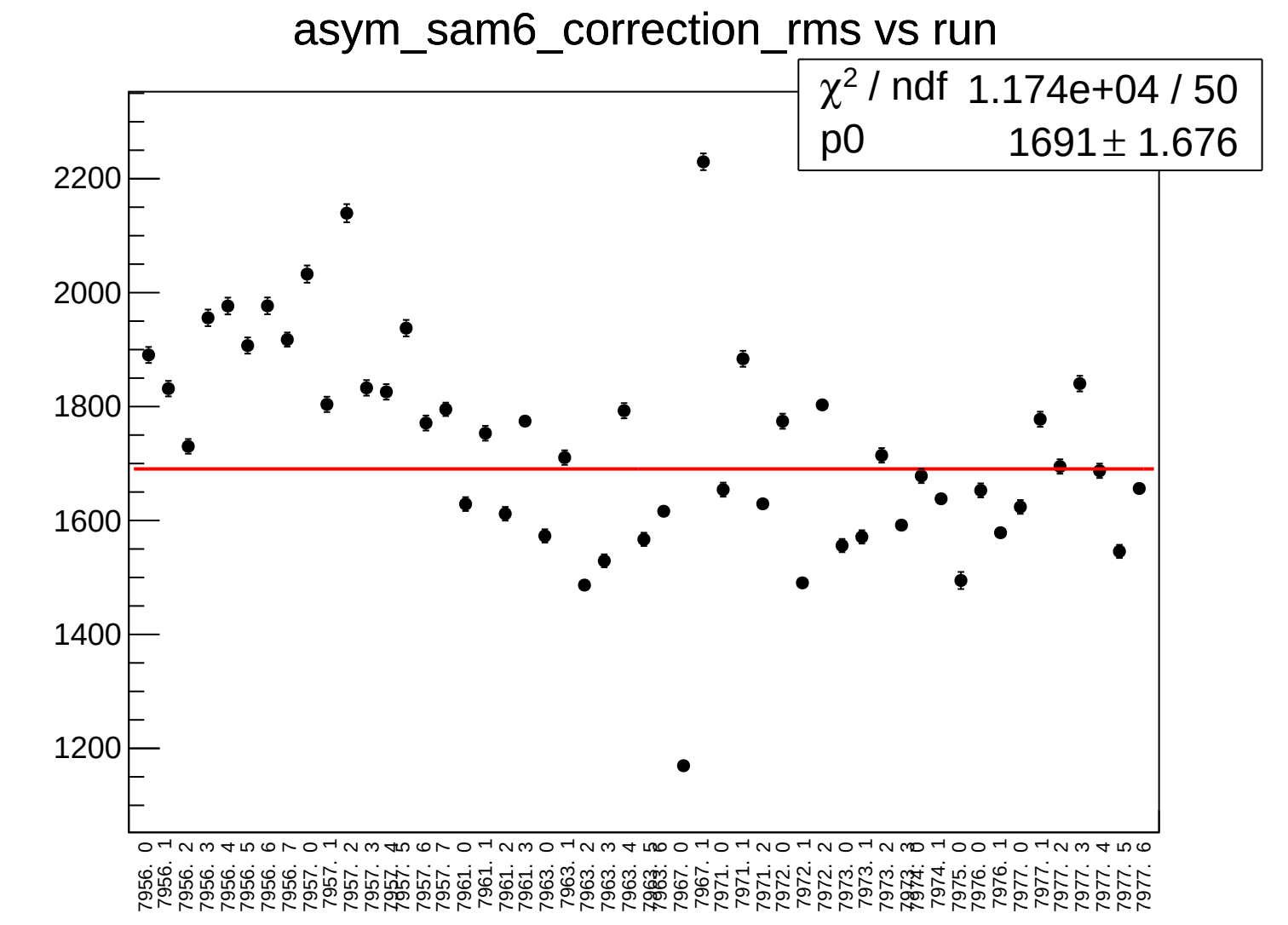
7977. 5
7977. 6


asym_sam6_correction_mean vs run
χ² / ndf 55.25 / 50
p0 85.58 ± 2370
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −83.68
Std Dev 118.9
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.01096
Std Dev 1.041
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam6_correction_rms vs run
χ² / ndf 1.174e+04 / 50
p0 1691 ± 1.676
2200
2000
1800
1600
1400
1200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7977. 0
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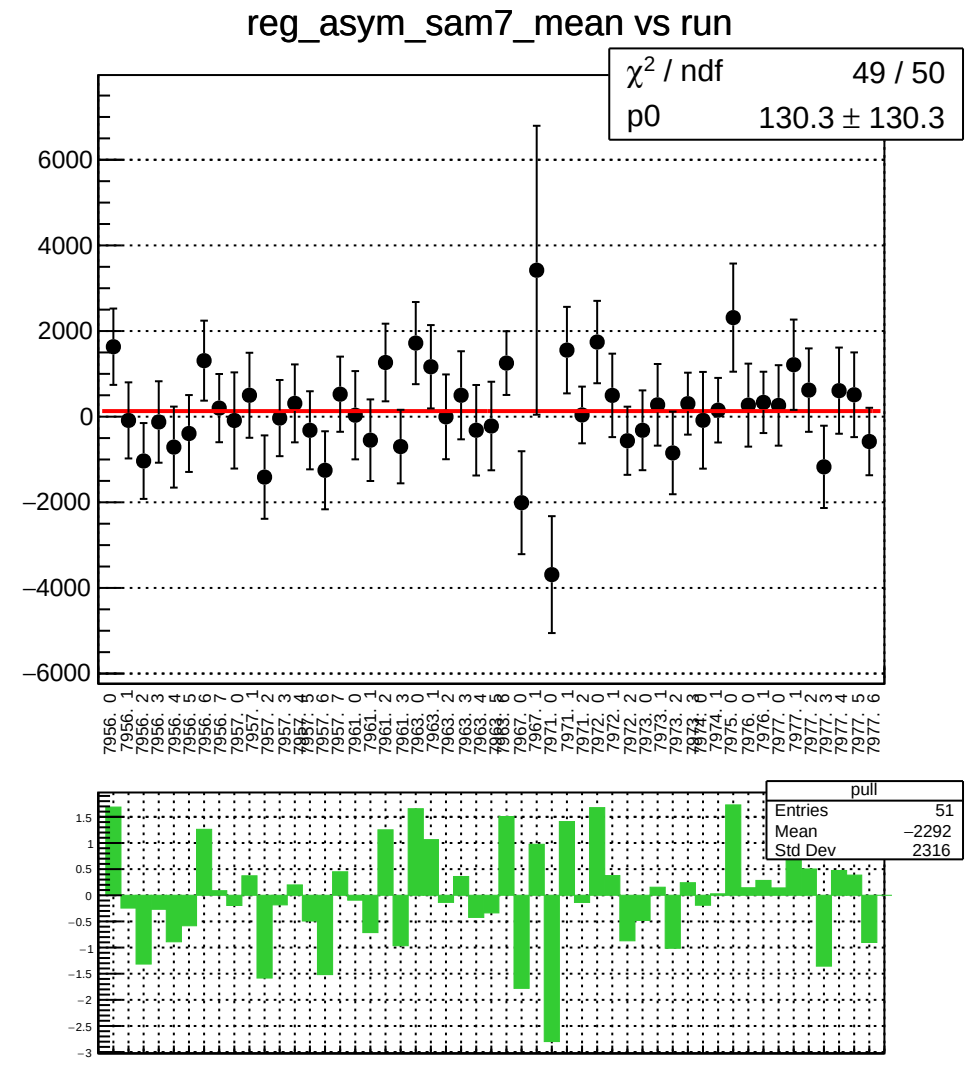
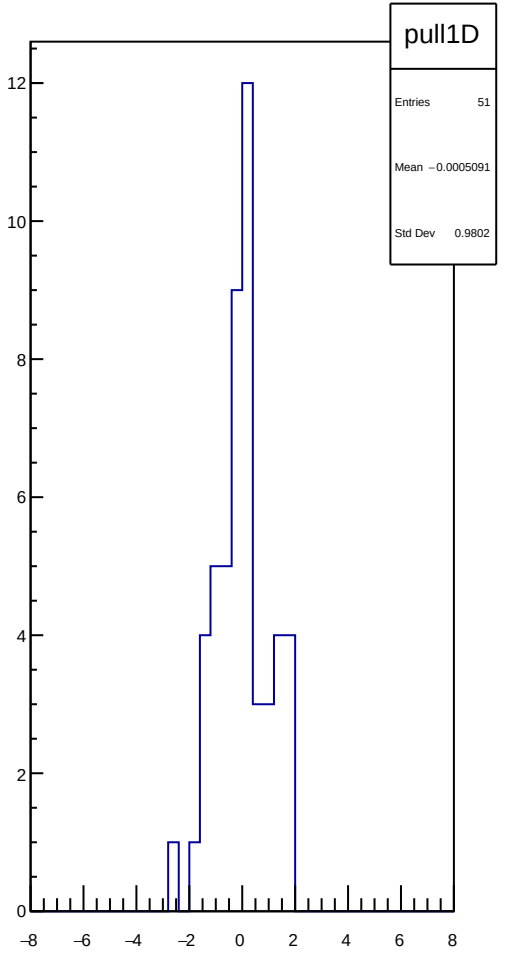
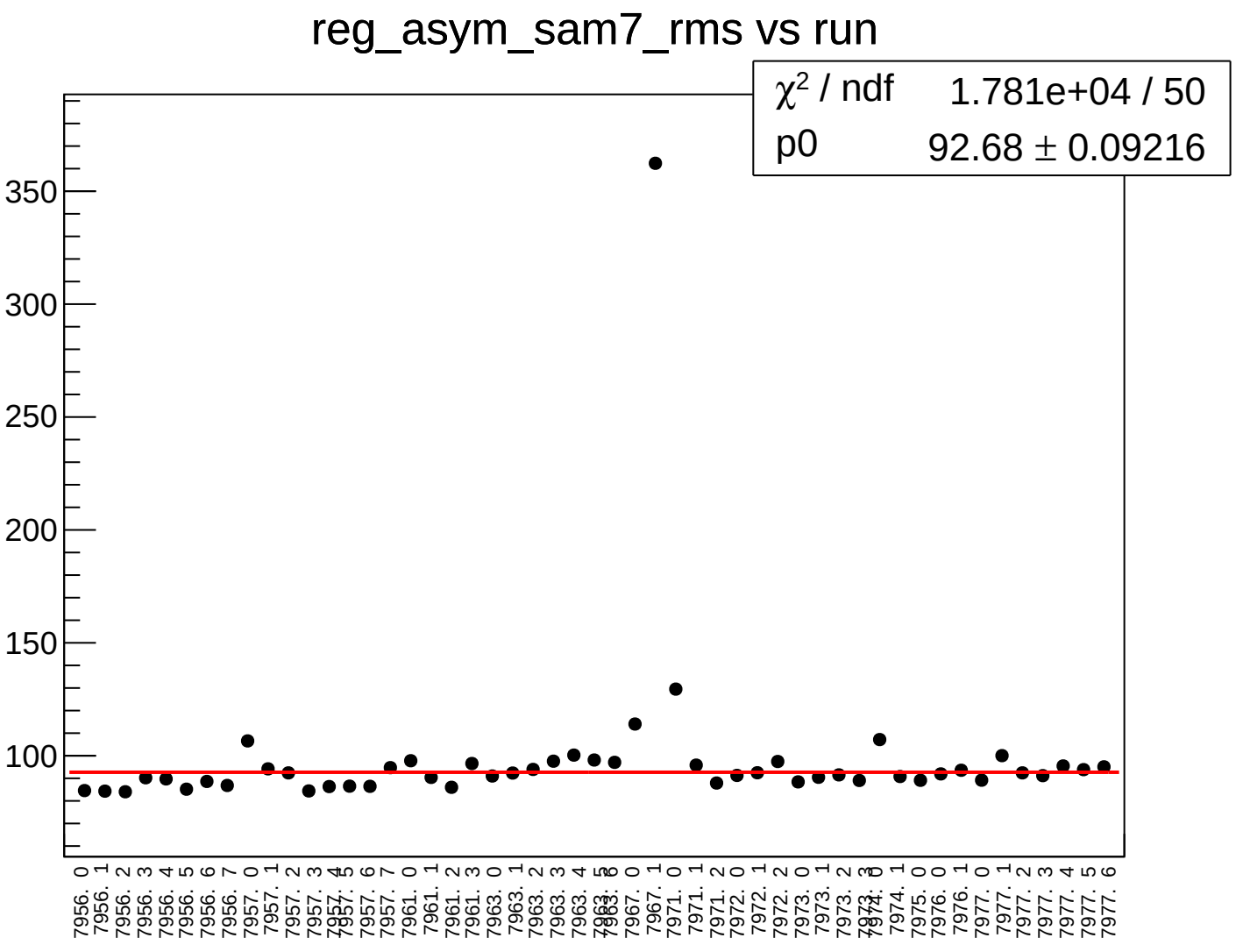
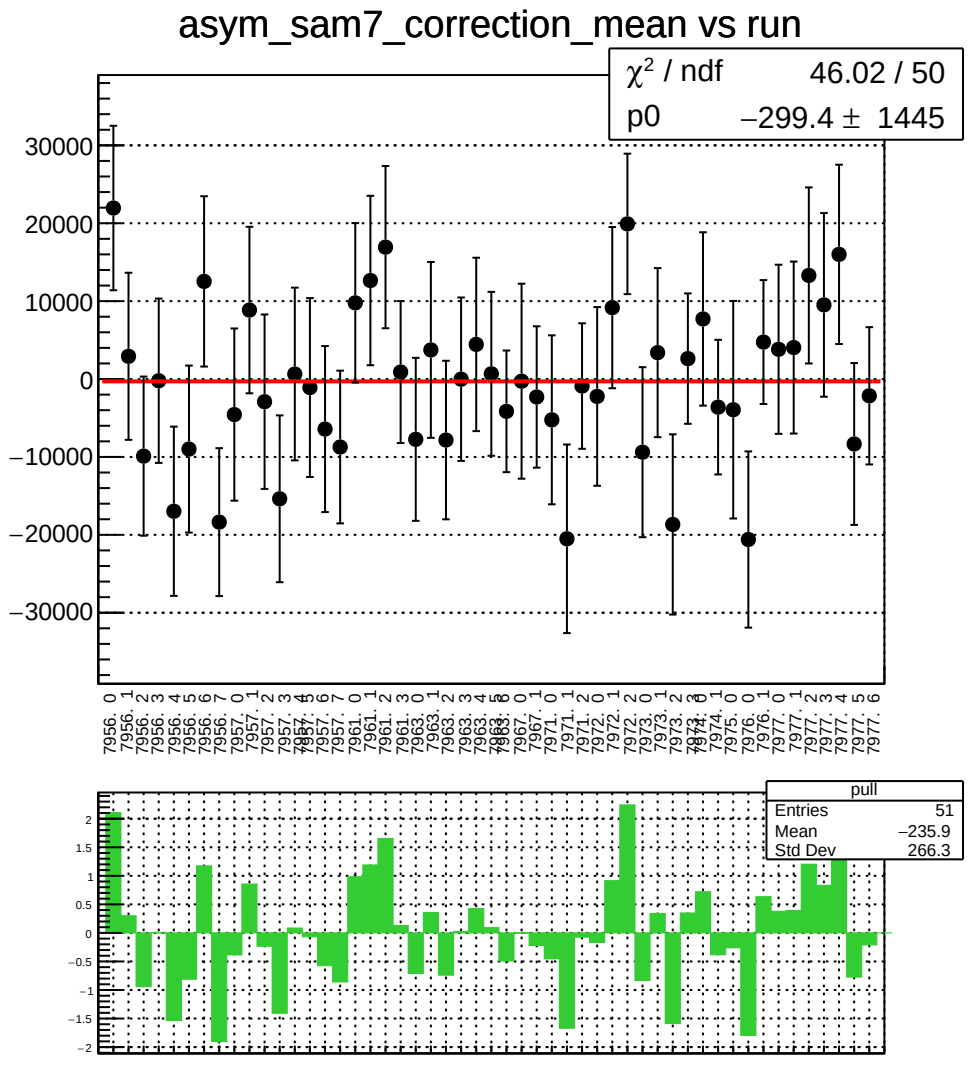
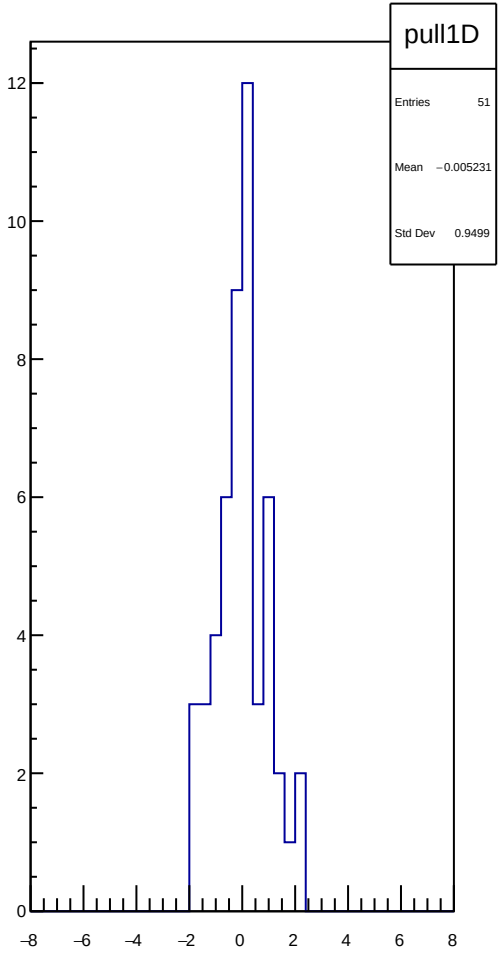
7977. 5
7977. 6

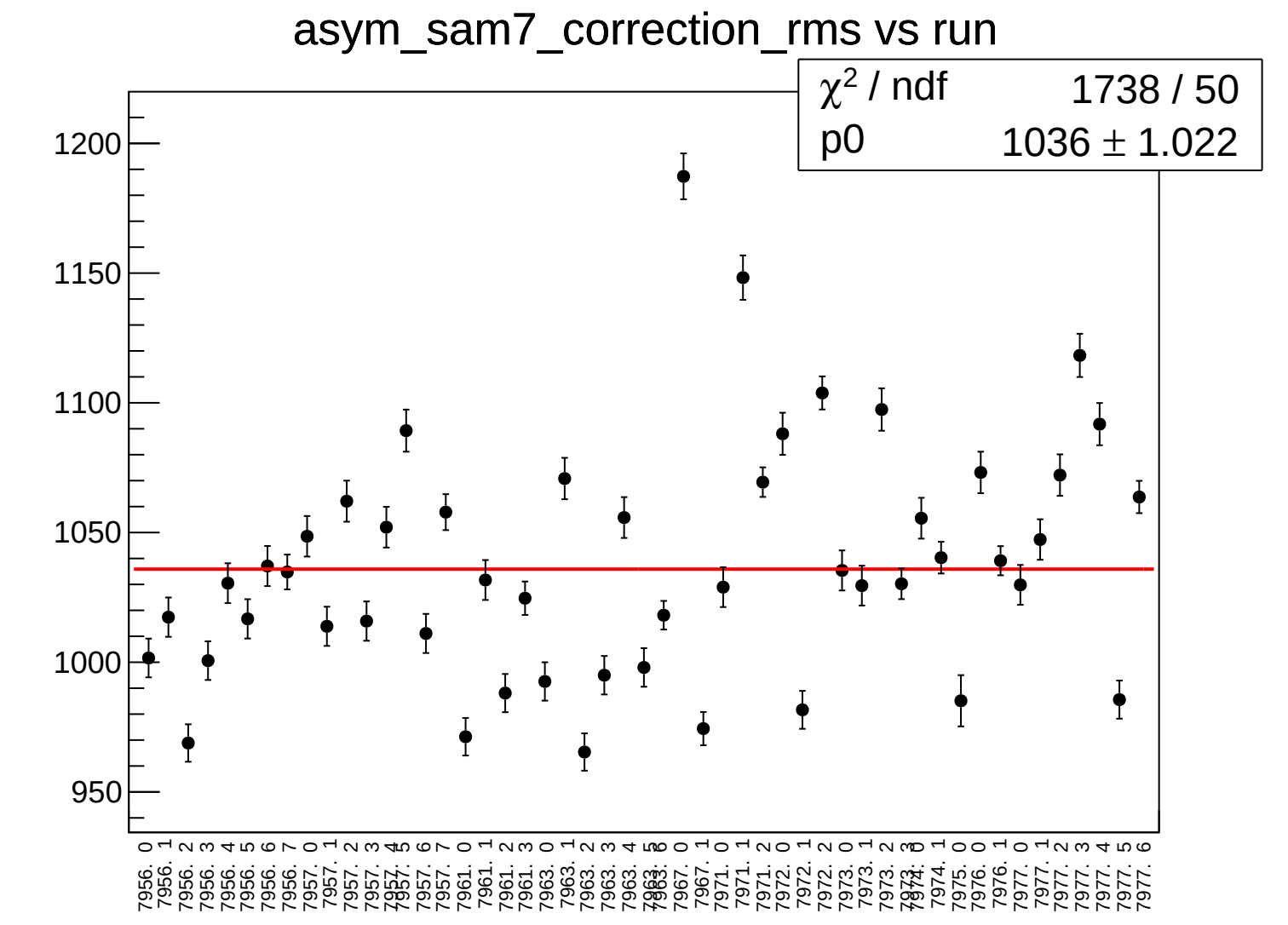

reg_asym_sam7_mean vs run
χ² / ndf 49 / 50
p0 130.3 ± 130.3
pull
Entries 51
Mean −2292
Std Dev 2316


pull1D
Entries 51
Mean −0.0005091
Std Dev 0.9802


reg_asym_sam7_rms vs run
χ² / ndf 1.781e+04 / 50
p0 92.68 ± 0.09216
350
300
250
200
150
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam7_correction_mean vs run
χ² / ndf 46.02 / 50
p0 −299.4 ± 1445
pull
Entries 51
Mean −235.9
Std Dev 266.3


pull1D
Entries 51
Mean −0.005231
Std Dev 0.9499


asym_sam7_correction_rms vs run
χ² / ndf 1738 / 50
p0 1036 ± 1.022
1200
1150
1100
1050
1000
950
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
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7977. 2
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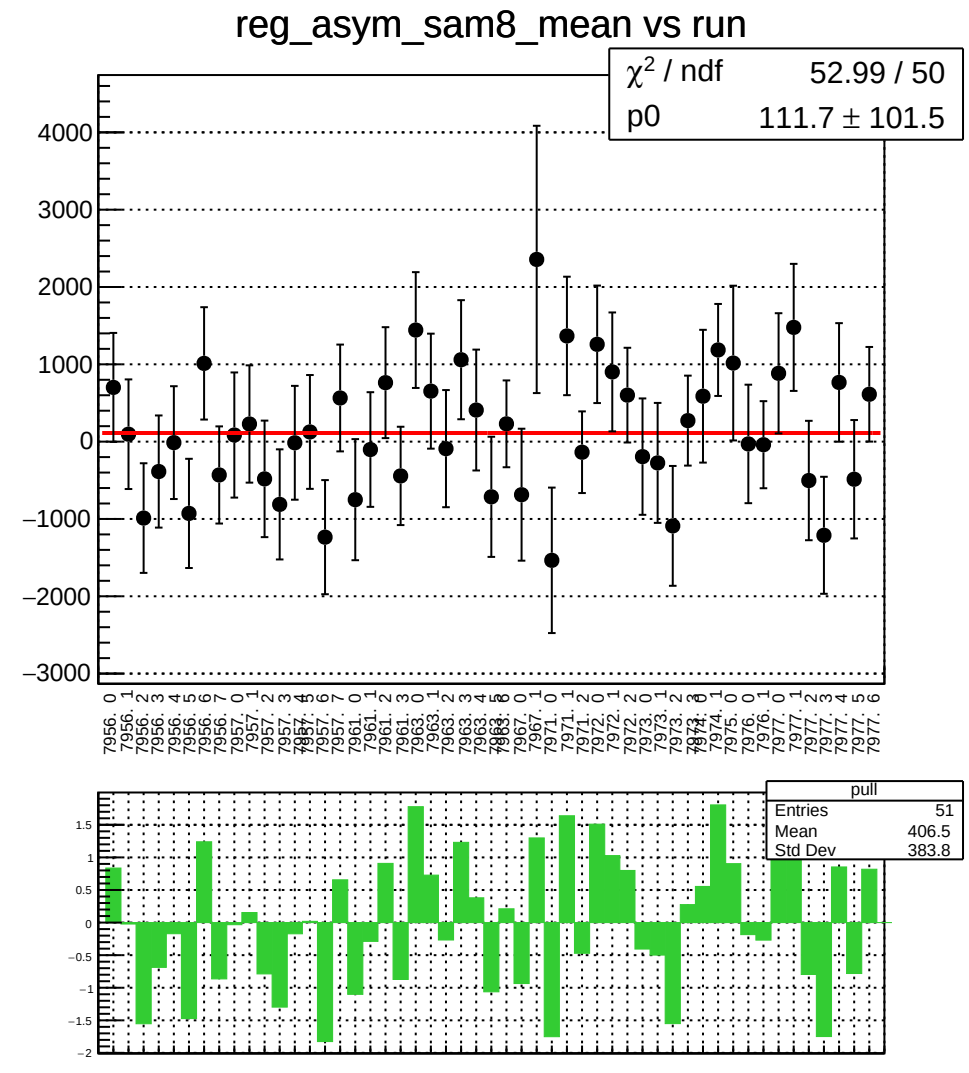
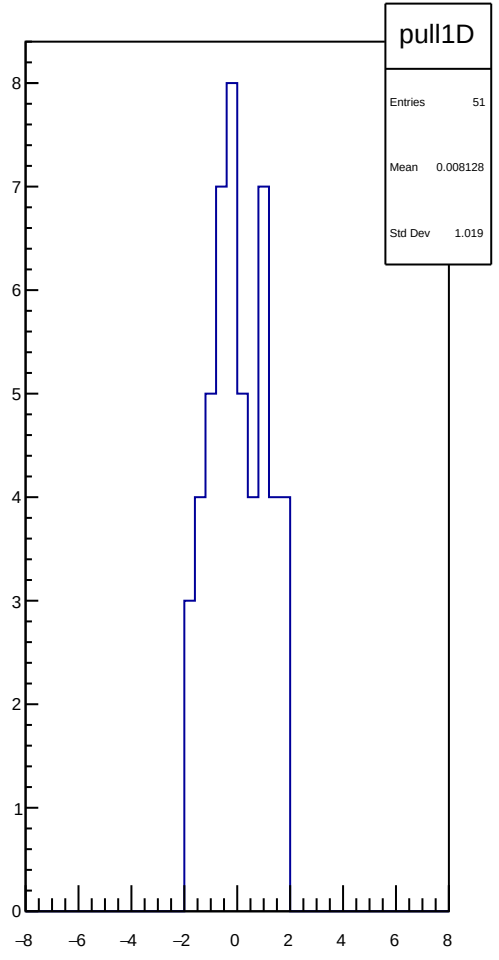
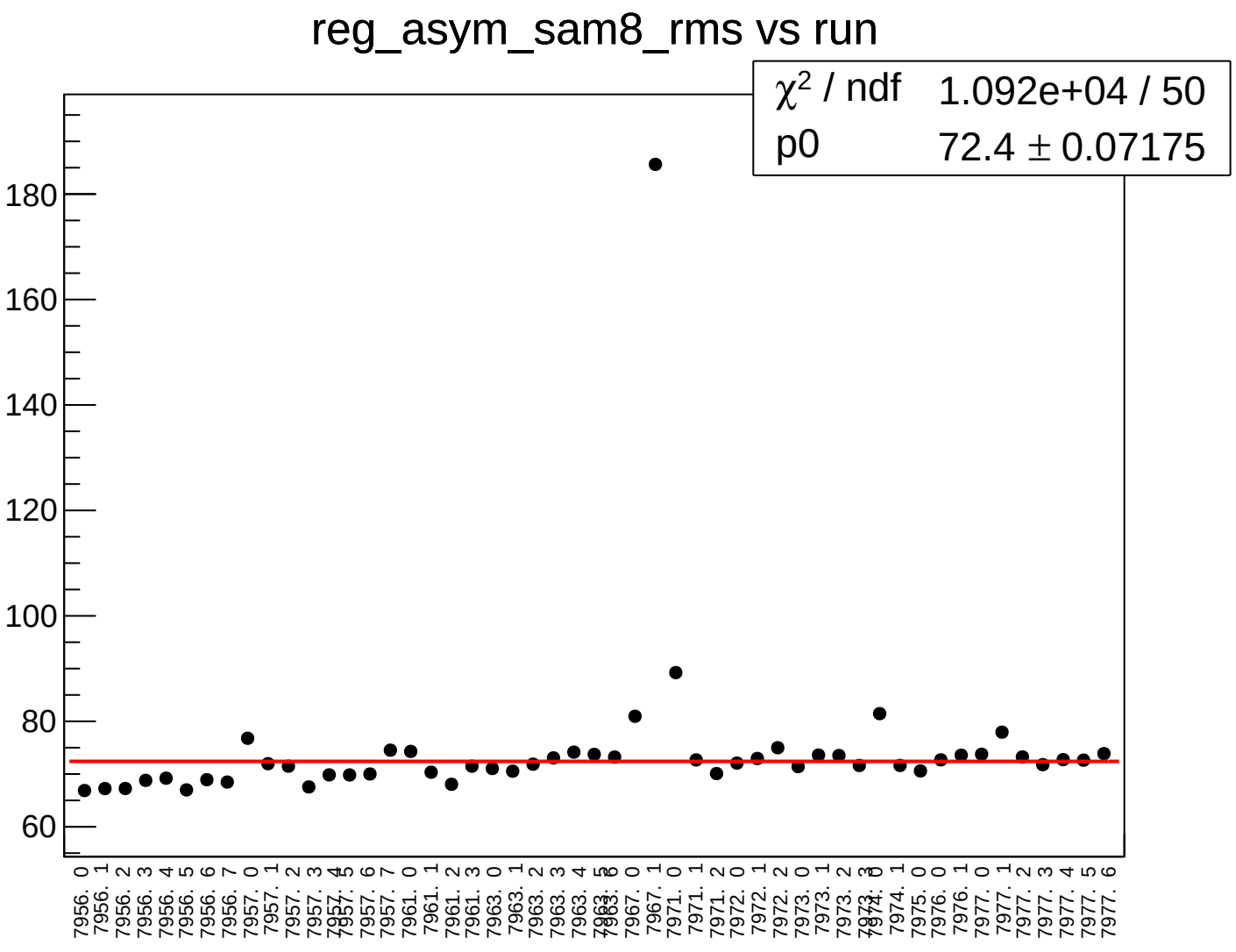
7977. 5
7977. 6


reg_asym_sam8_mean vs run
χ² / ndf 52.99 / 50
p0 111.7 ± 101.5
pull
Entries 51
Mean 406.5
Std Dev 383.8


pull1D
Entries 51
Mean 0.008128
Std Dev 1.019


reg_asym_sam8_rms vs run
χ^2 / ndf 1.092e+04 / 50
p0 72.4 ± 0.07175
180
160
140
120
100
80
60
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
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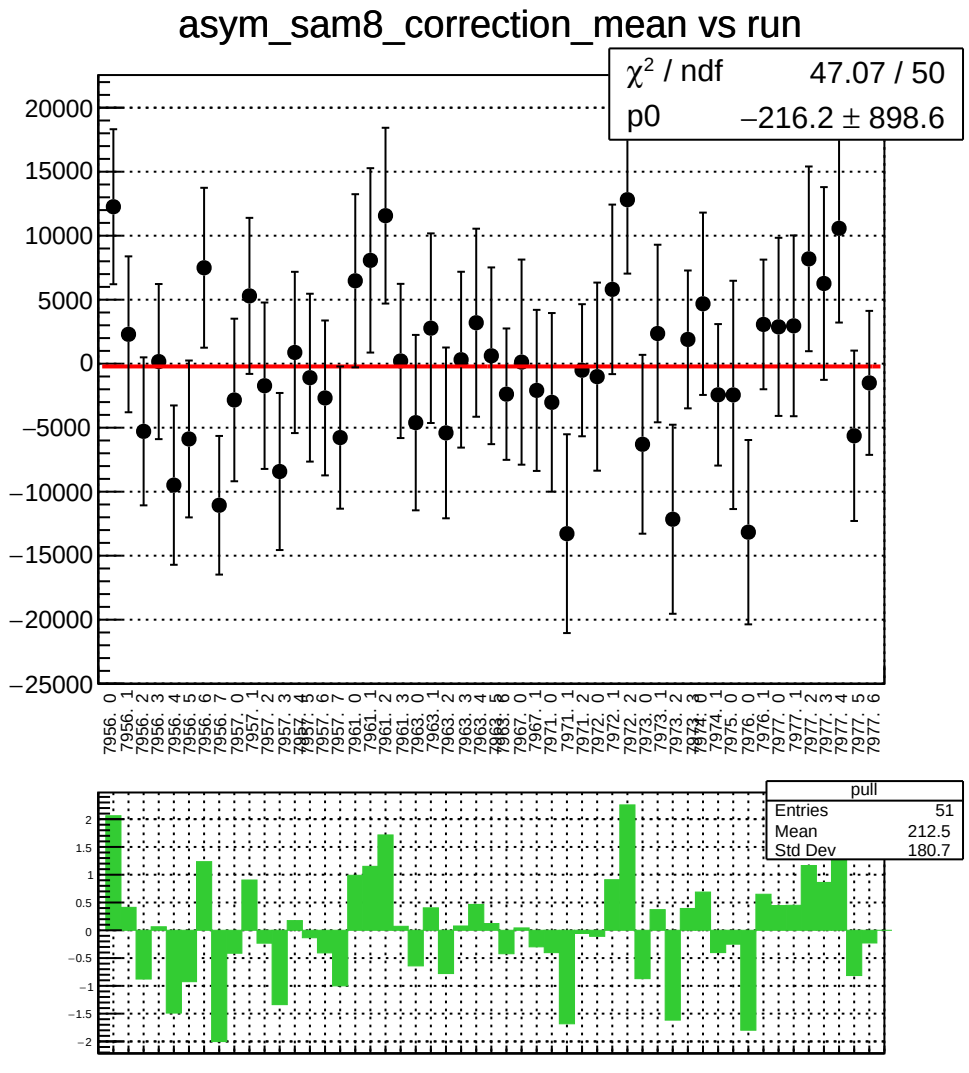
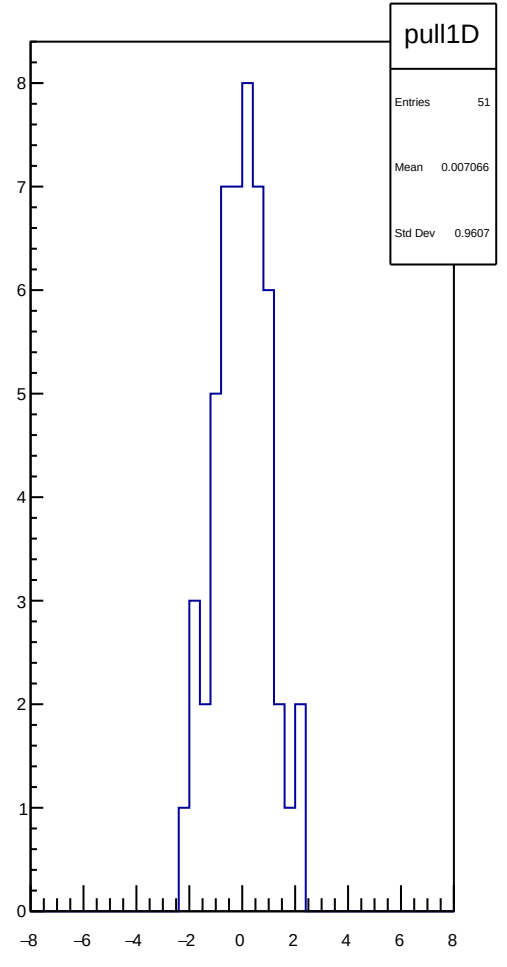
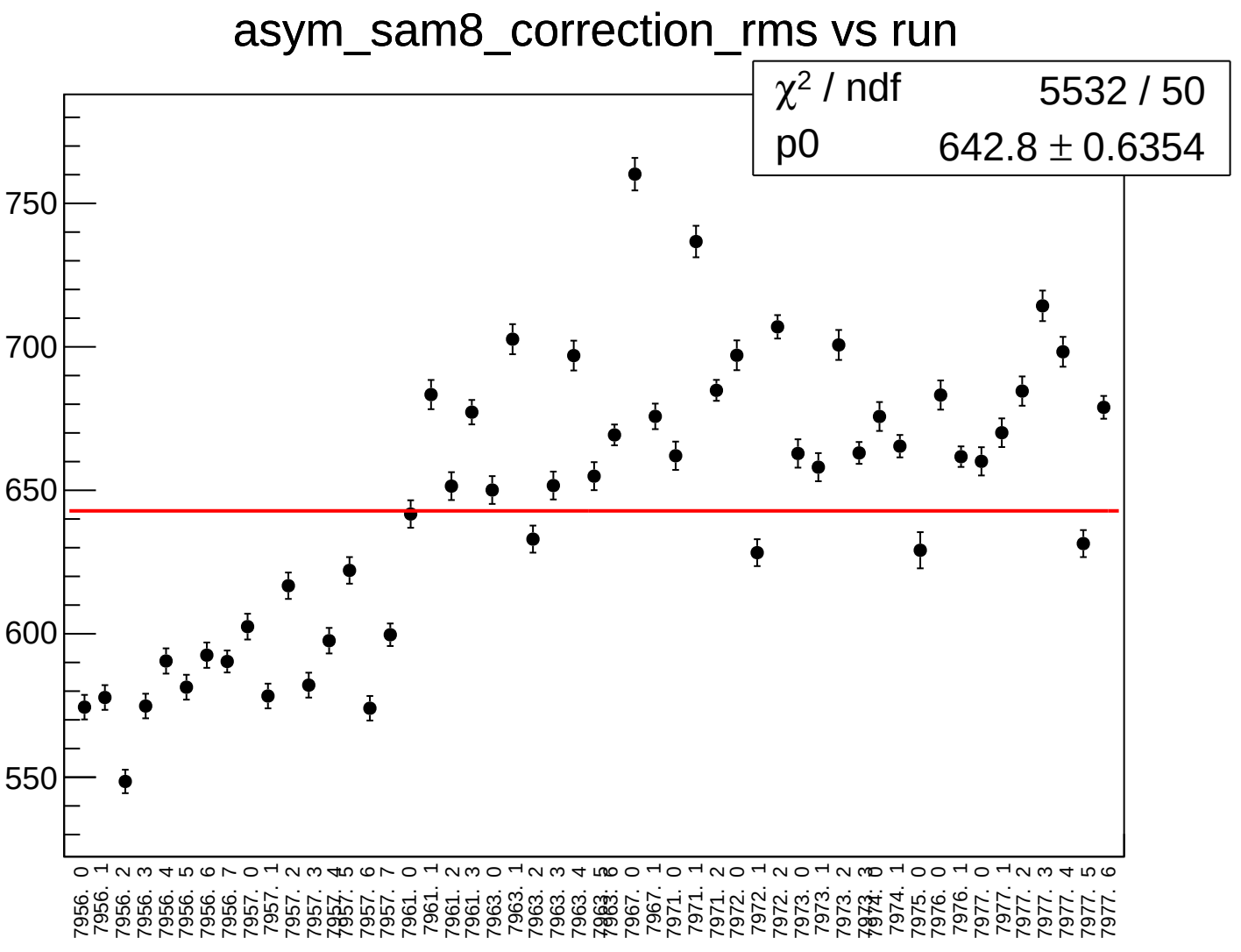
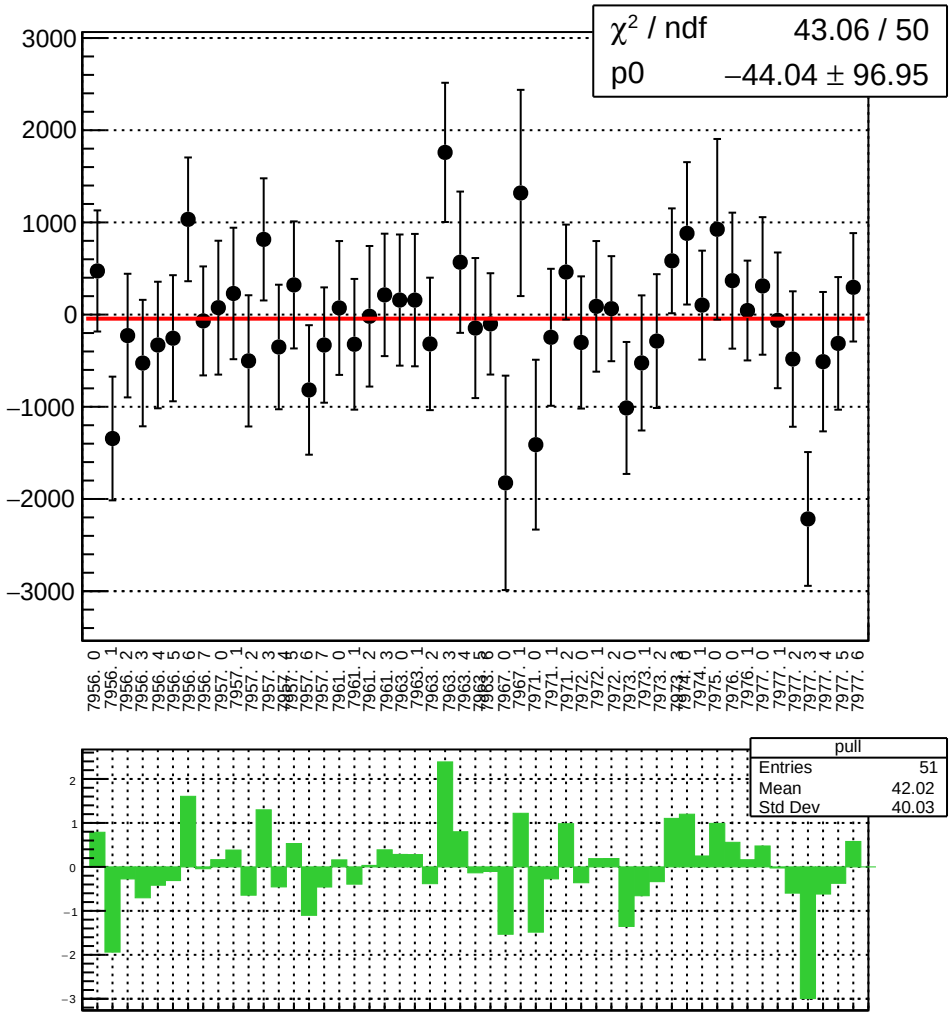
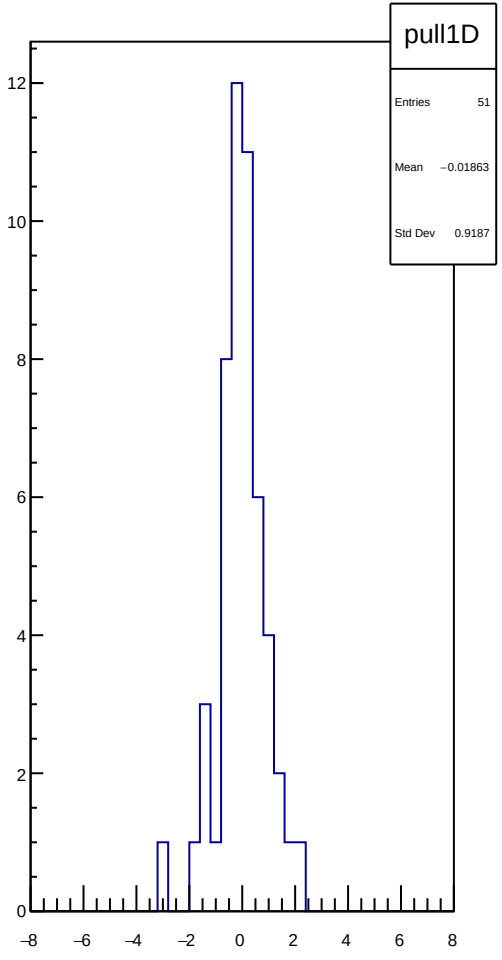
7977. 5
7977. 6

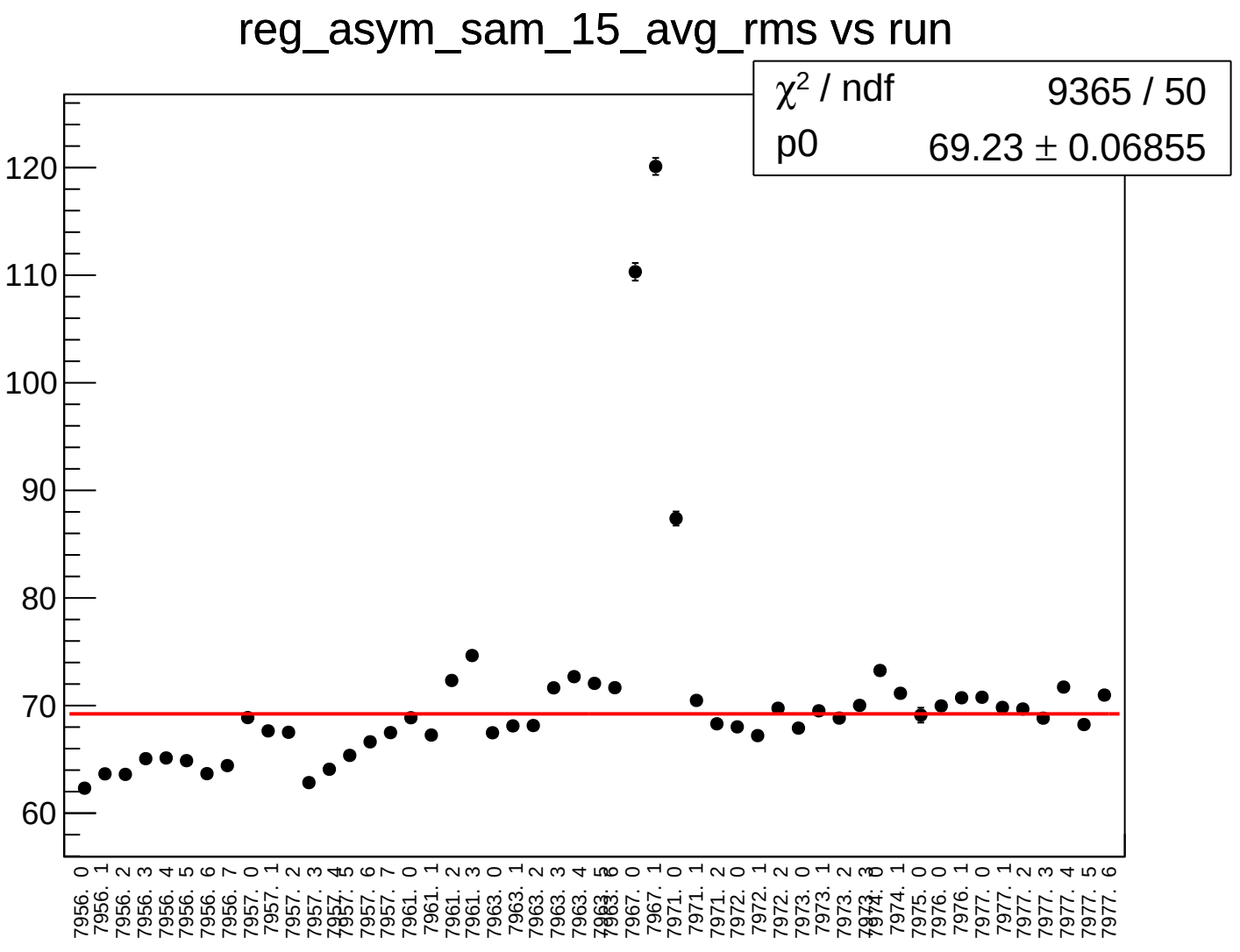

asym_sam8_correction_mean vs run
χ² / ndf 47.07 / 50
p0 −216.2 ± 898.6
pull
Entries 51
Mean 212.5
Std Dev 180.7


pull1D
Entries 51
Mean 0.007066
Std Dev 0.9607


asym_sam8_correction_rms vs run
χ² / ndf 5532 / 50
p0 642.8 ± 0.6354
750
700
650
600
550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_15_avg_mean vs run
χ² / ndf 43.06 / 50
p0 −44.04 ± 96.95
pull
Entries 51
Mean 42.02
Std Dev 40.03


pull1D
Entries 51
Mean −0.01863
Std Dev 0.9187


reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 9365 / 50
p0 69.23 ± 0.06855
120
110
100
90
80
70
60
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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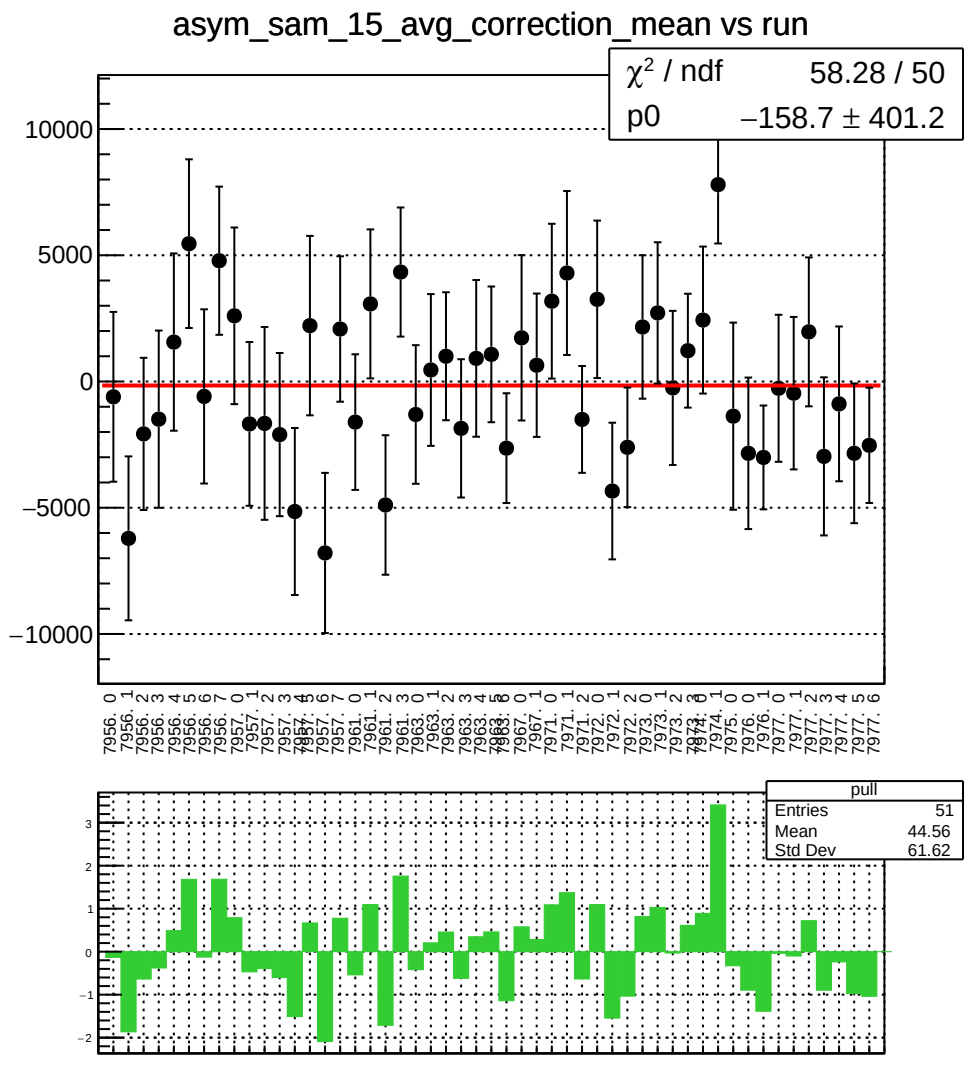
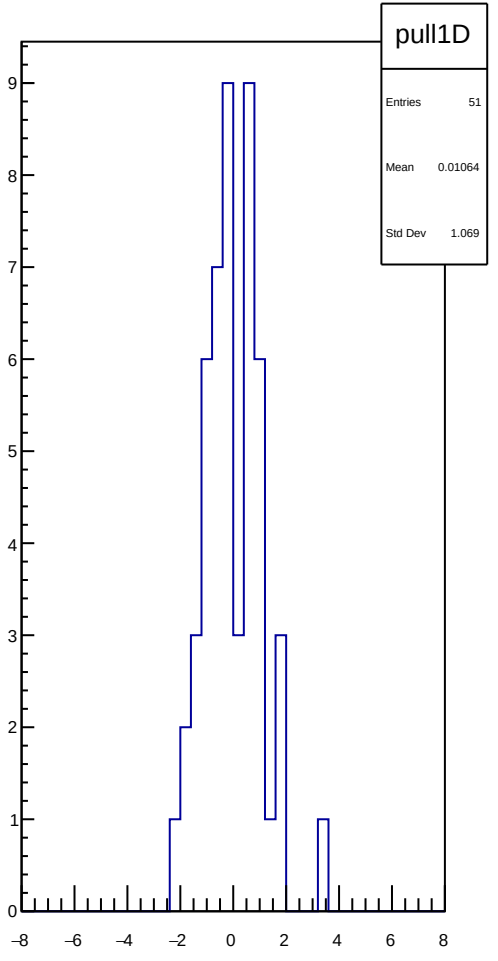
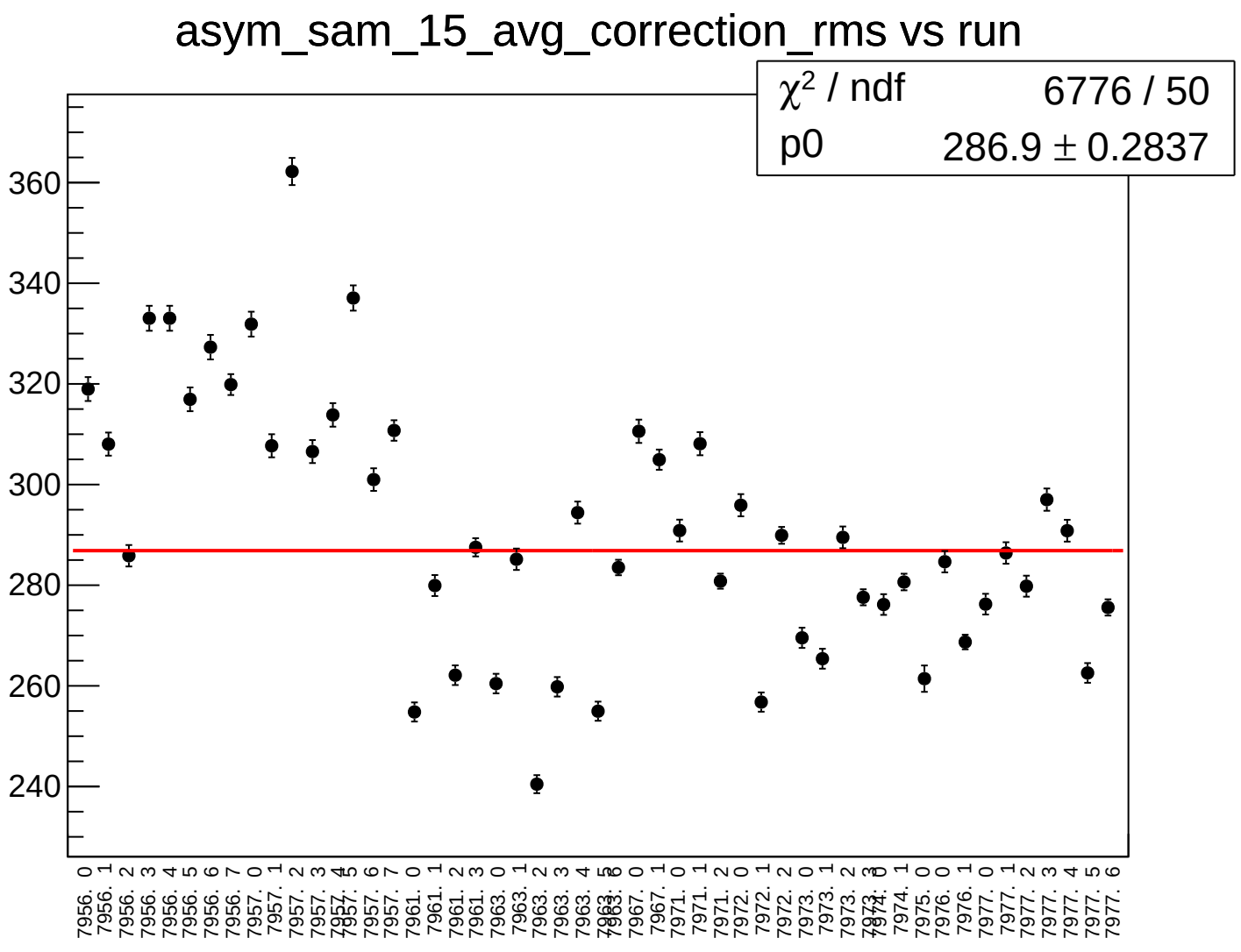
7977. 4
7977. 5
7977. 6


asym_sam_15_avg_correction_mean vs run
χ² / ndf 58.28 / 50
p0 −158.7 ± 401.2
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 44.56
Std Dev 61.62
3
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.01064
Std Dev 1.069
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_avg_correction_rms vs run
χ² / ndf 6776 / 50
p0 286.9 ± 0.2837
360
340
320
300
280
260
240
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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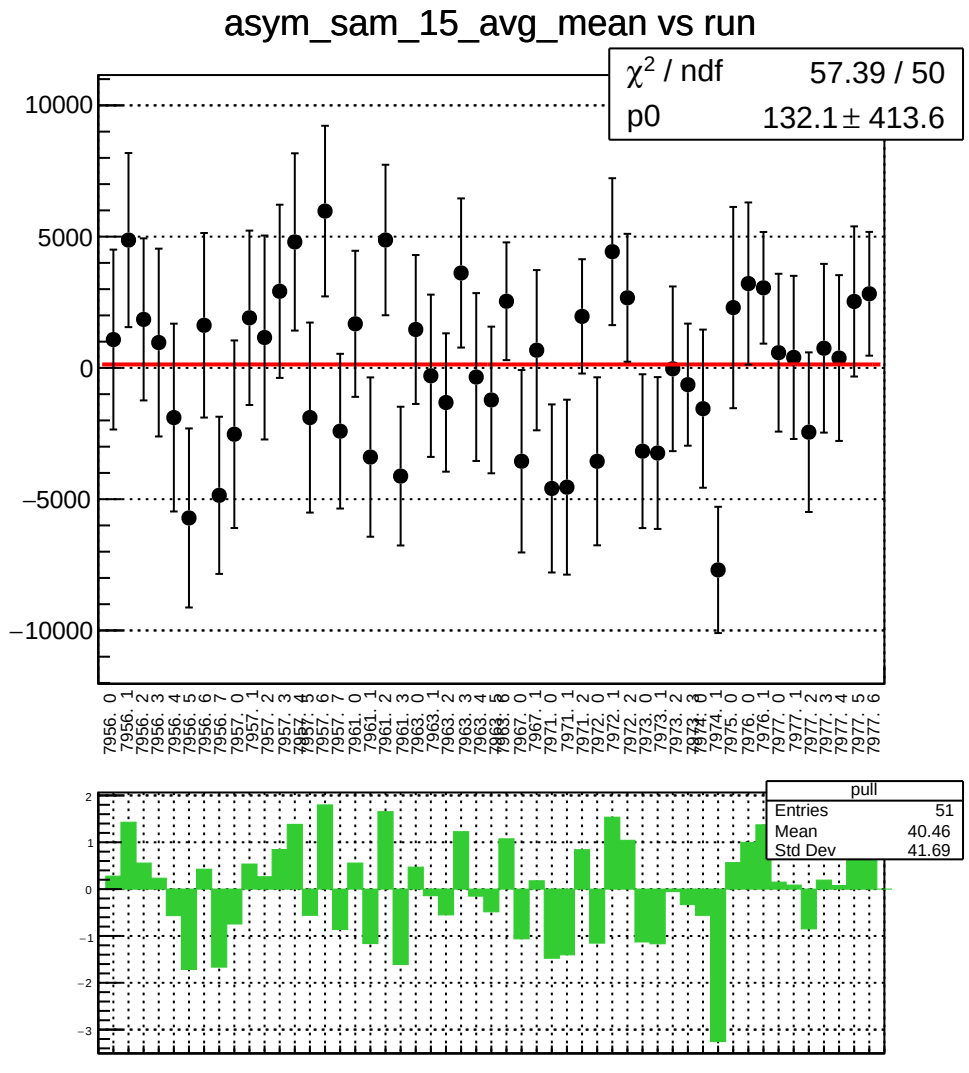
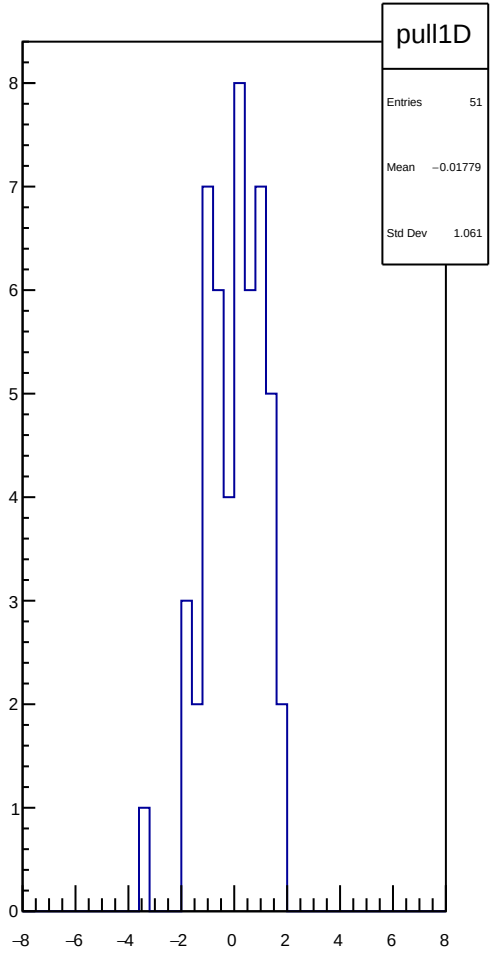
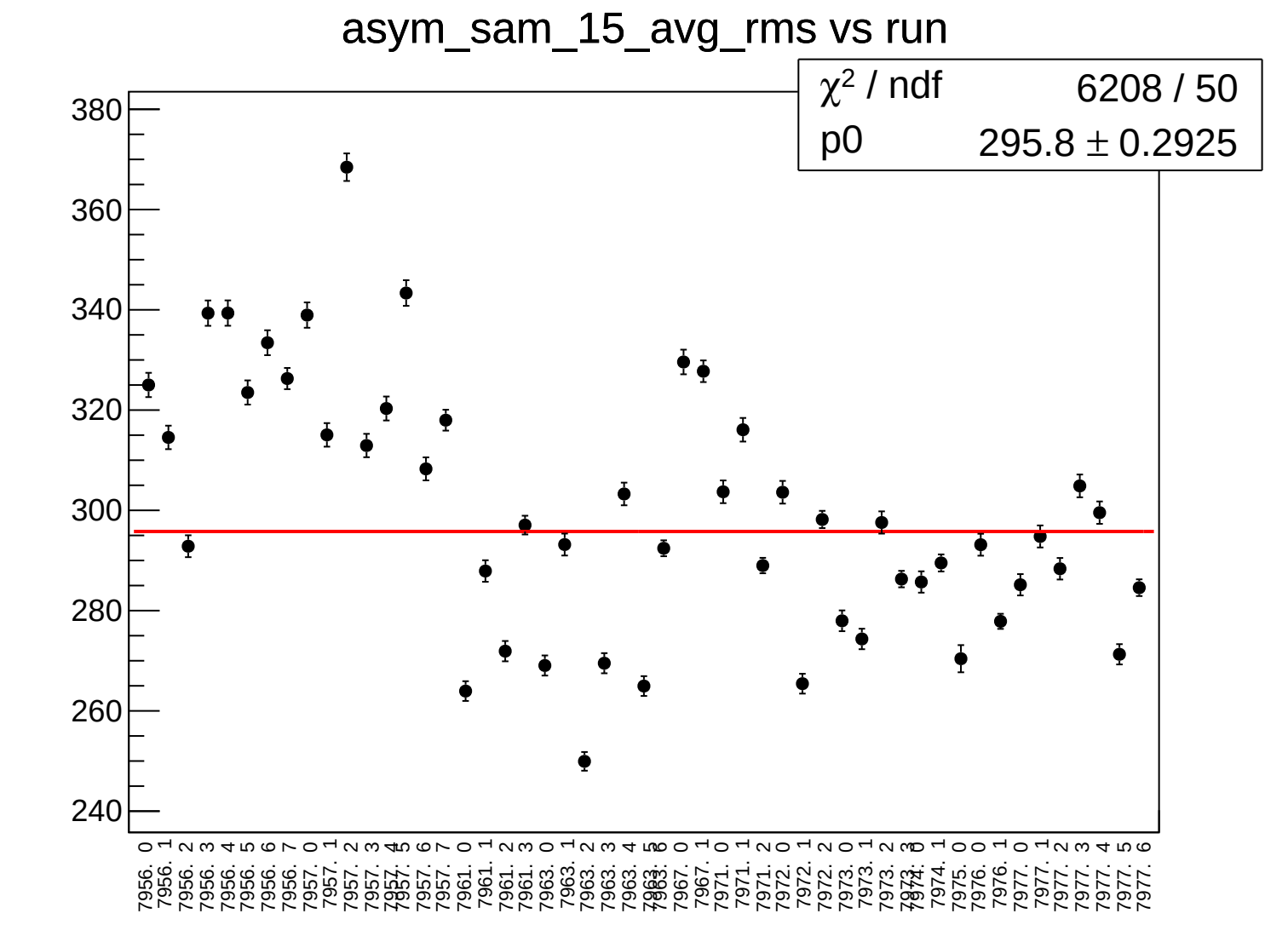
7977. 5
7977. 6


asym_sam_15_avg_mean vs run
χ² / ndf 57.39 / 50
p0 132.1 ± 413.6
10000
5000
0
−5000
−10000
pull
Entries 51
Mean 40.46
Std Dev 41.69
2
1
0
−1
−2
−3


pull1D
Entries 51
Mean −0.01779
Std Dev 1.061
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 6208 / 50
p0 295.8 ± 0.2925
380
360
340
320
300
280
260
240
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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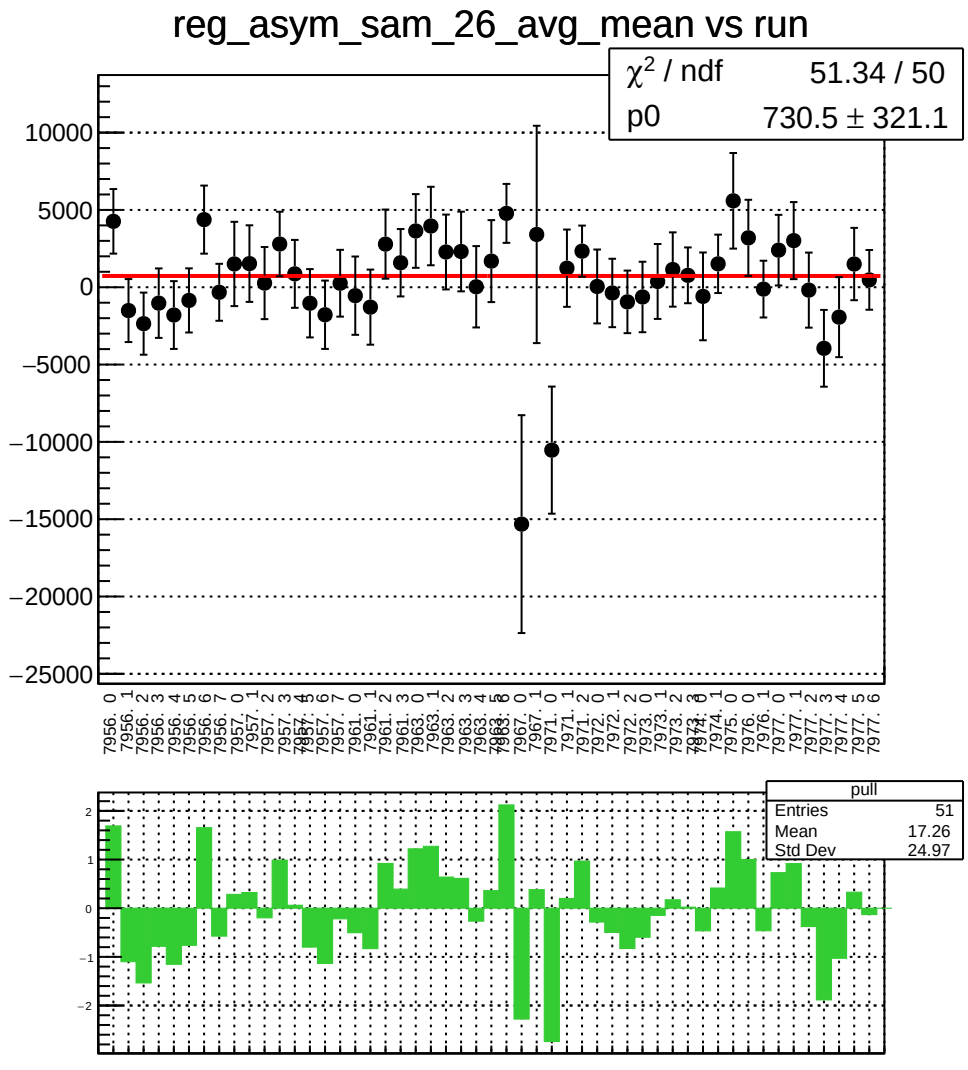
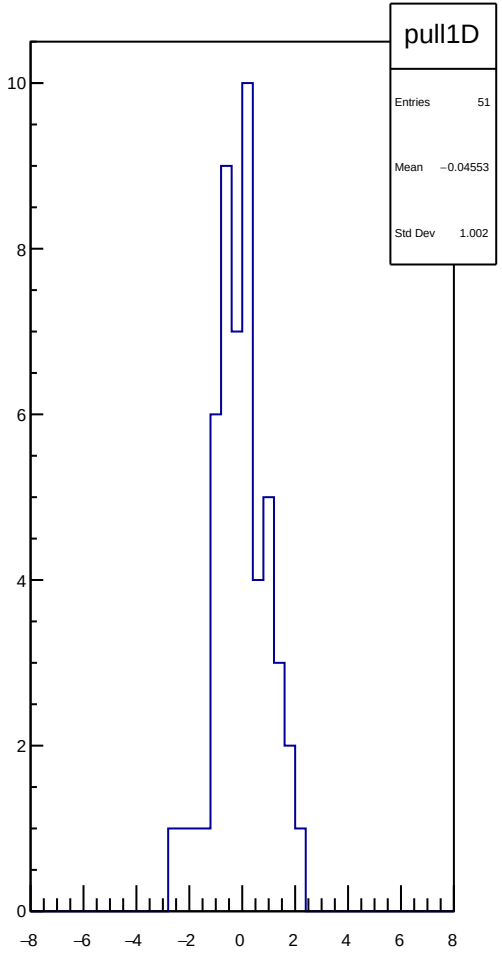
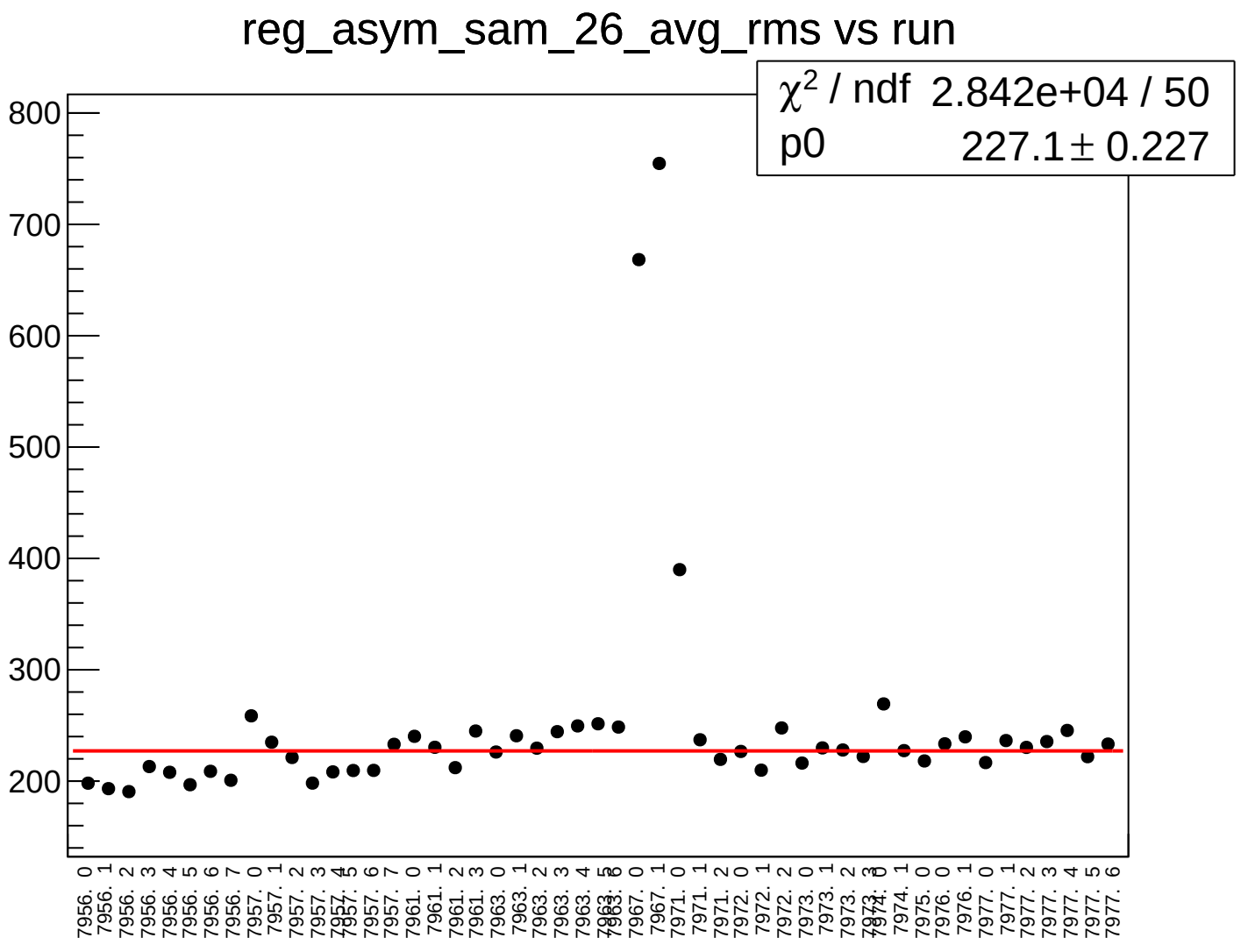
7977. 5
7977. 6


reg_asym_sam_26_avg_mean vs run
χ² / ndf 51.34 / 50
p0 730.5 ± 321.1
pull
Entries 51
Mean 17.26
Std Dev 24.97


pull1D
Entries 51
Mean −0.04553
Std Dev 1.002


reg_asym_sam_26_avg_rms vs run
χ² / ndf 2.842e+04 / 50
p0 227.1 ± 0.227
800
700
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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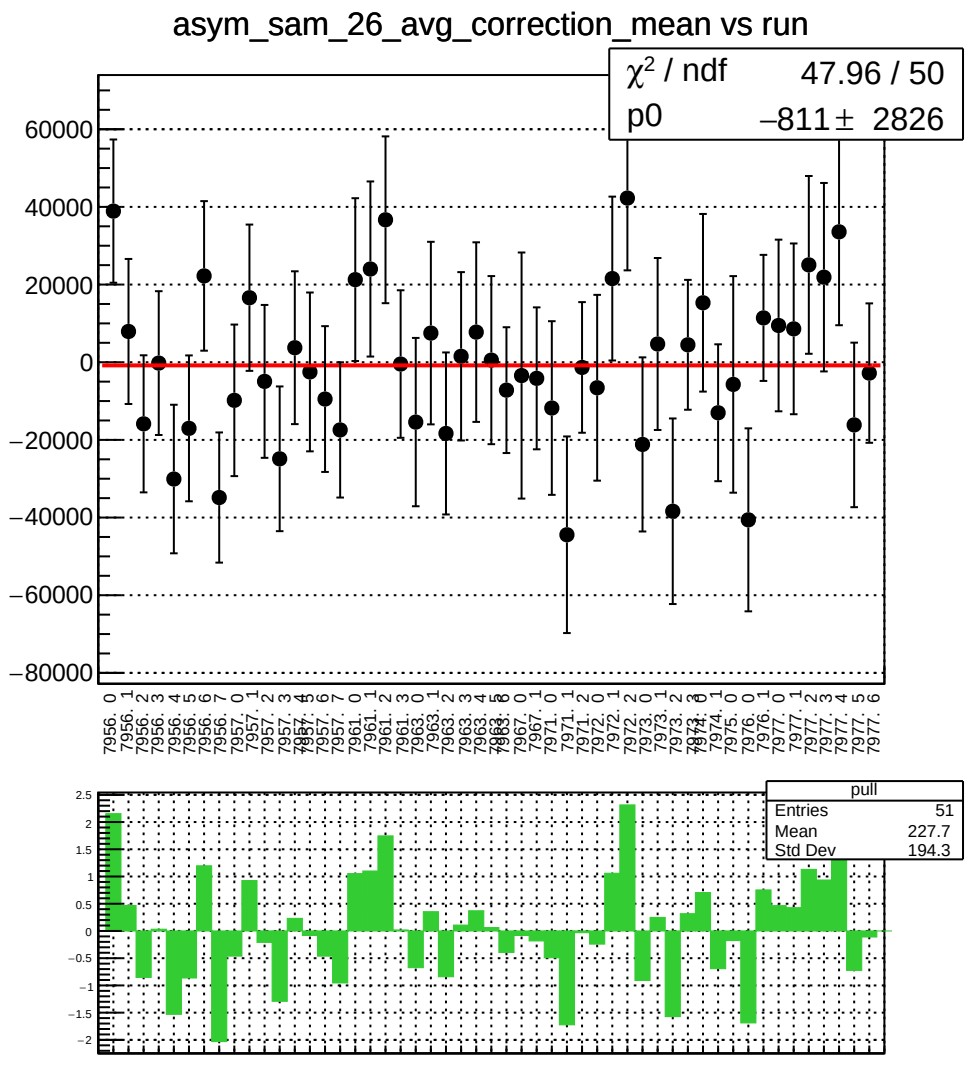
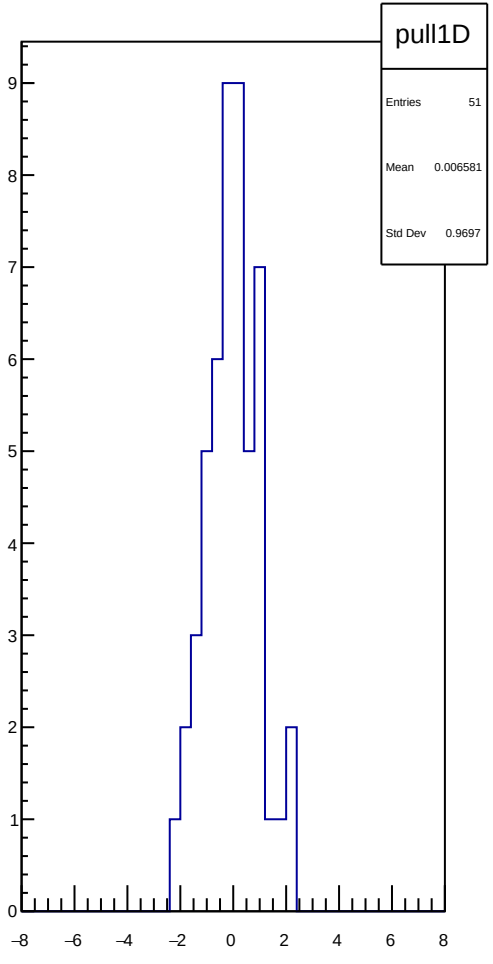
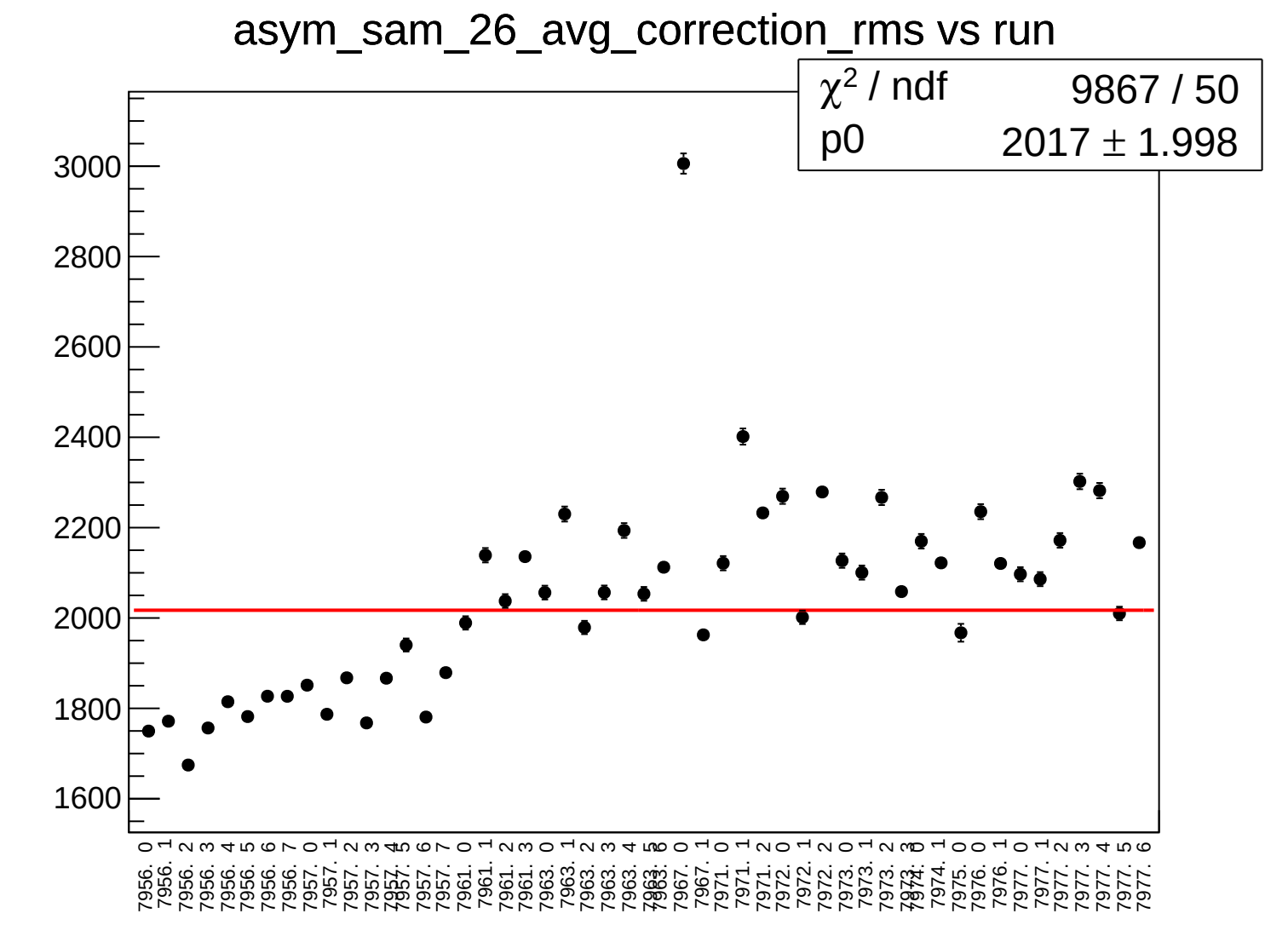
7977. 5
7977. 6


asym_sam_26_avg_correction_mean vs run
χ² / ndf 47.96 / 50
p0 −811 ± 2826
pull
Entries 51
Mean 227.7
Std Dev 194.3


pull1D
Entries 51
Mean 0.006581
Std Dev 0.9697


asym_sam_26_avg_correction_rms vs run
χ² / ndf 9867 / 50
p0 2017 ± 1.998
3000
2800
2600
2400
2200
2000
1800
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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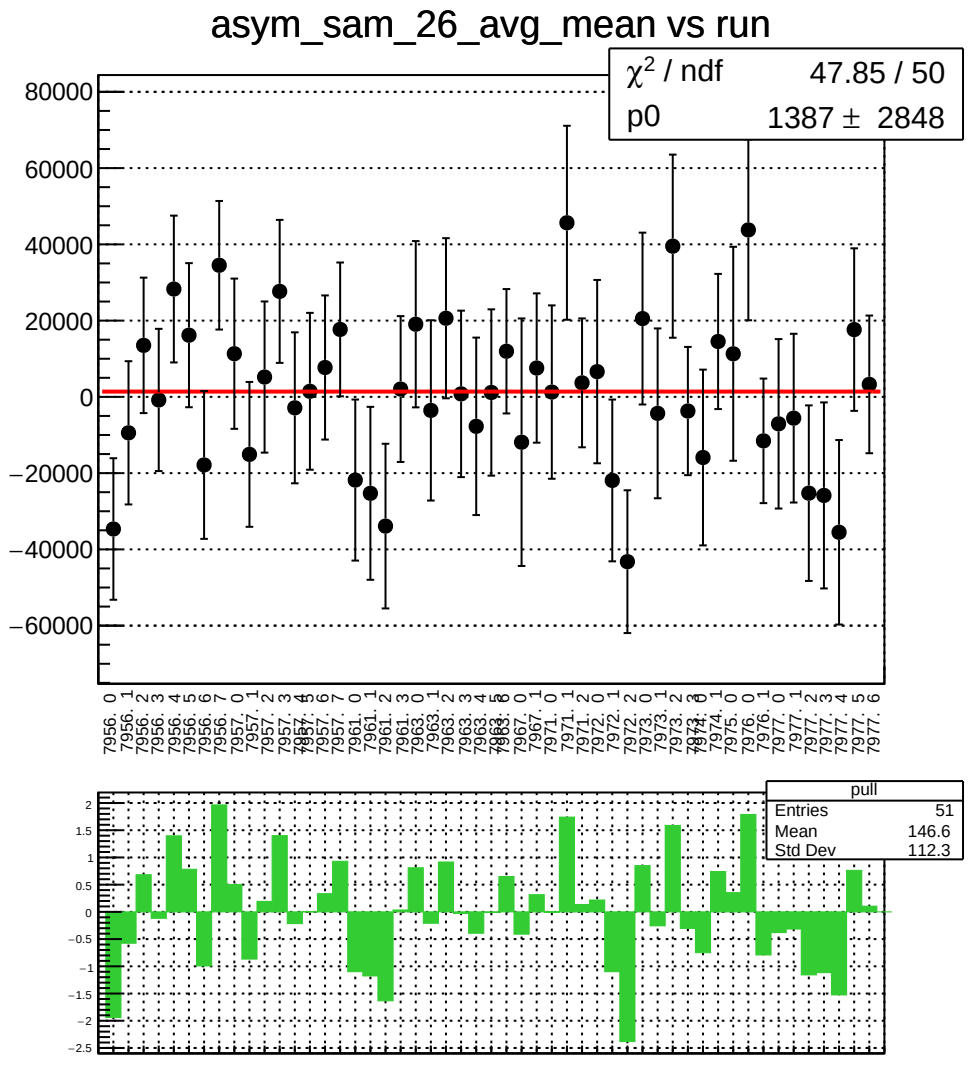
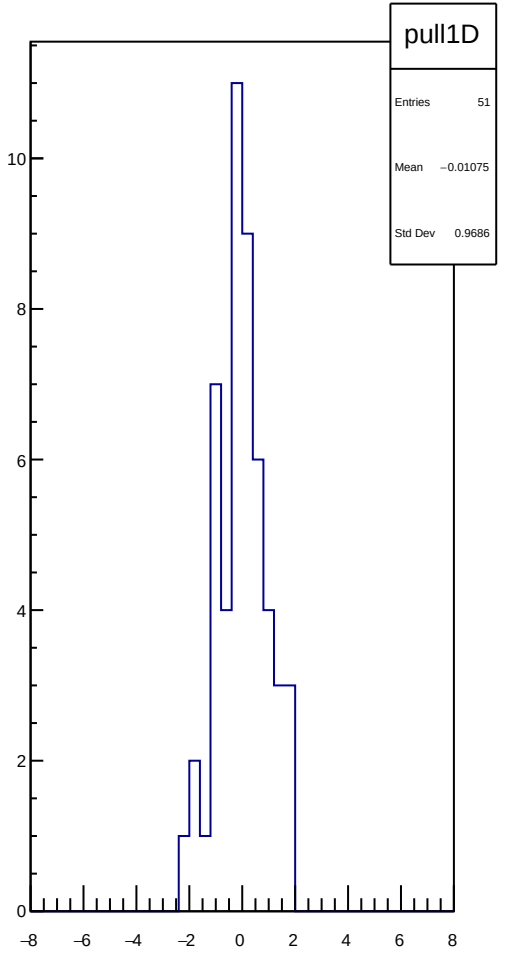
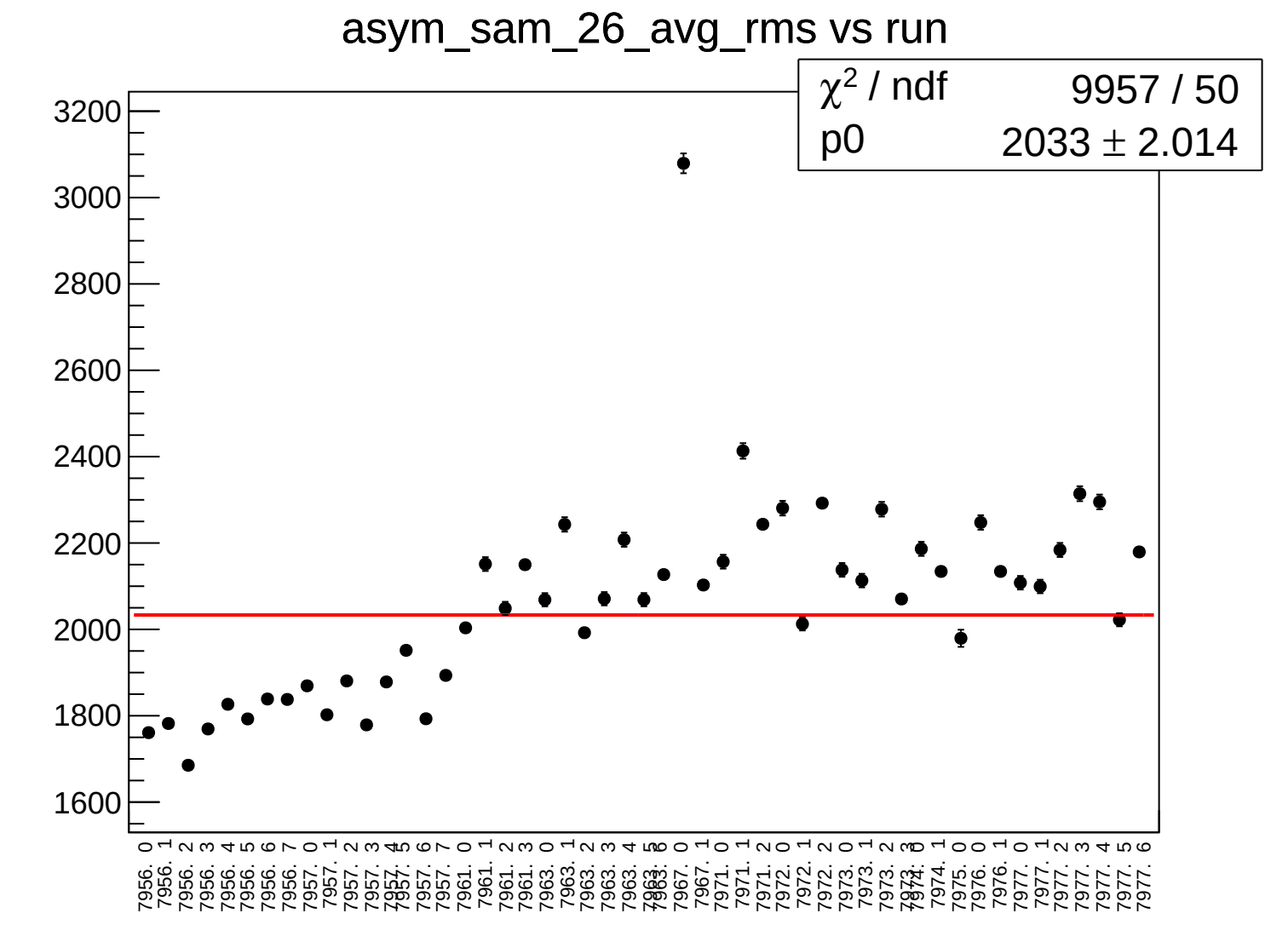
7977. 5
7977. 6


asym_sam_26_avg_mean vs run
χ² / ndf 47.85 / 50
p0 1387 ± 2848
pull
Entries 51
Mean 146.6
Std Dev 112.3


pull1D
Entries 51
Mean −0.01075
Std Dev 0.9686


asym_sam_26_avg_rms vs run
χ^2 / ndf 9957 / 50
p0 2033 ± 2.014
3200
3000
2800
2600
2400
2200
2000
1800
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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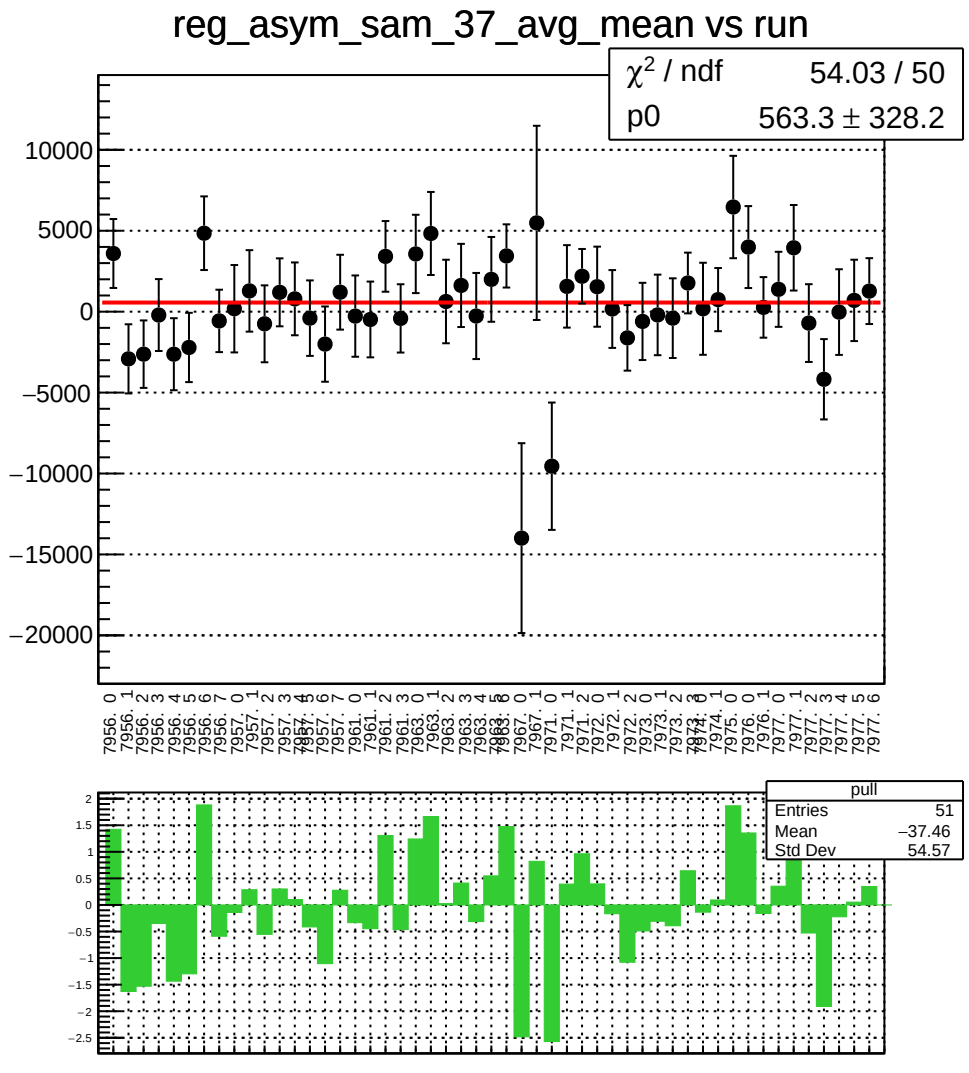
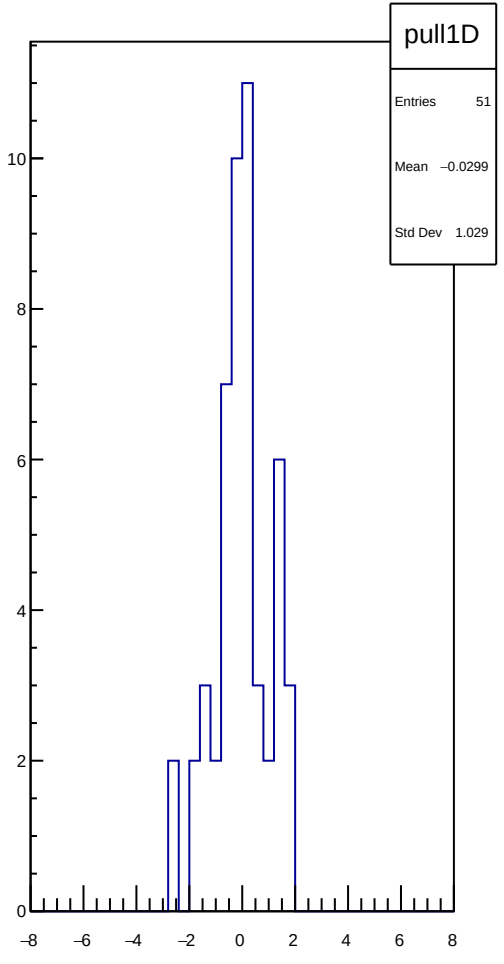
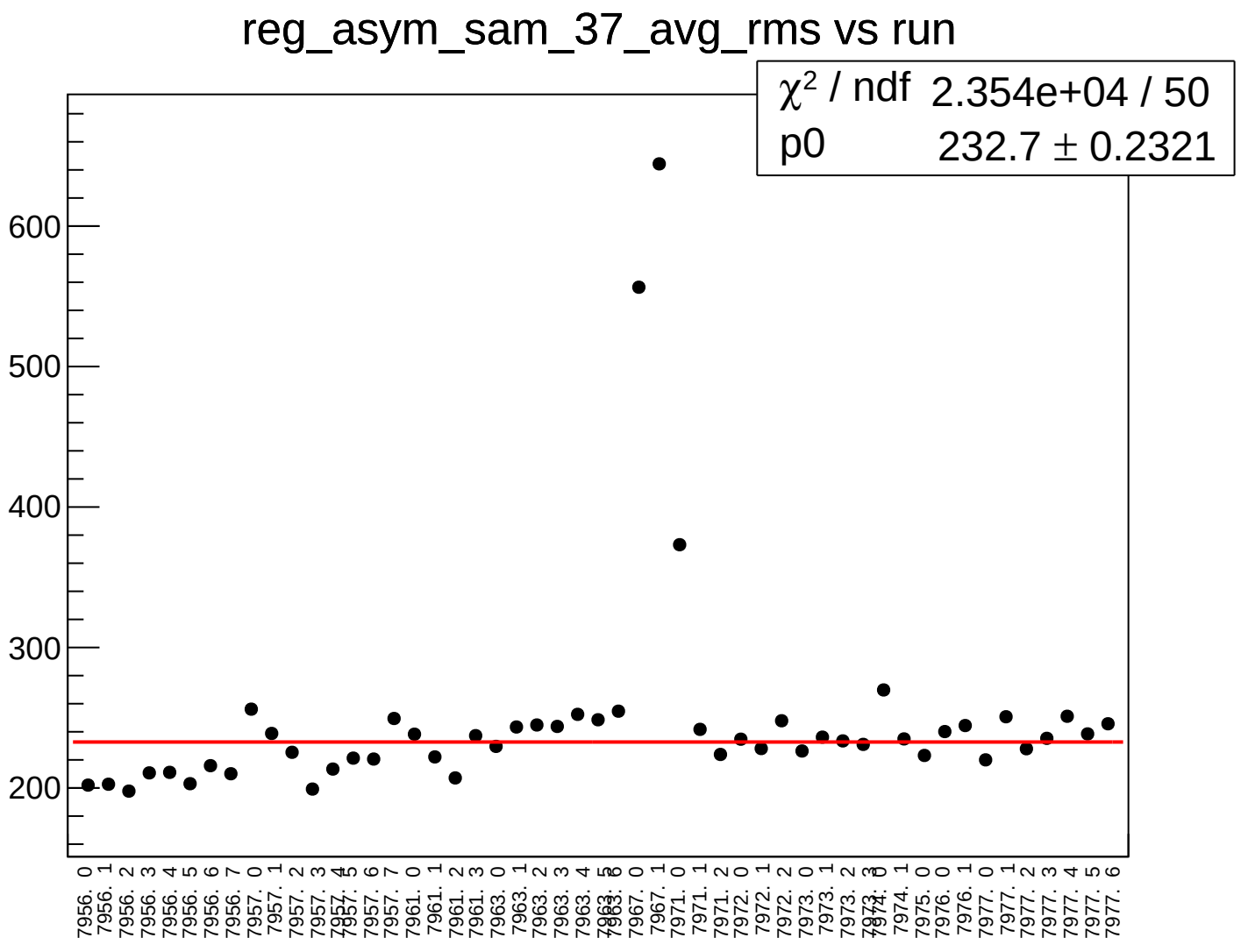
7977. 5
7977. 6


reg_asym_sam_37_avg_mean vs run
χ² / ndf 54.03 / 50
p0 563.3 ± 328.2
pull
Entries 51
Mean −37.46
Std Dev 54.57


pull1D
Entries 51
Mean −0.0299
Std Dev 1.029


reg_asym_sam_37_avg_rms vs run
χ² / ndf 2.354e+04 / 50
p0 232.7 ± 0.2321
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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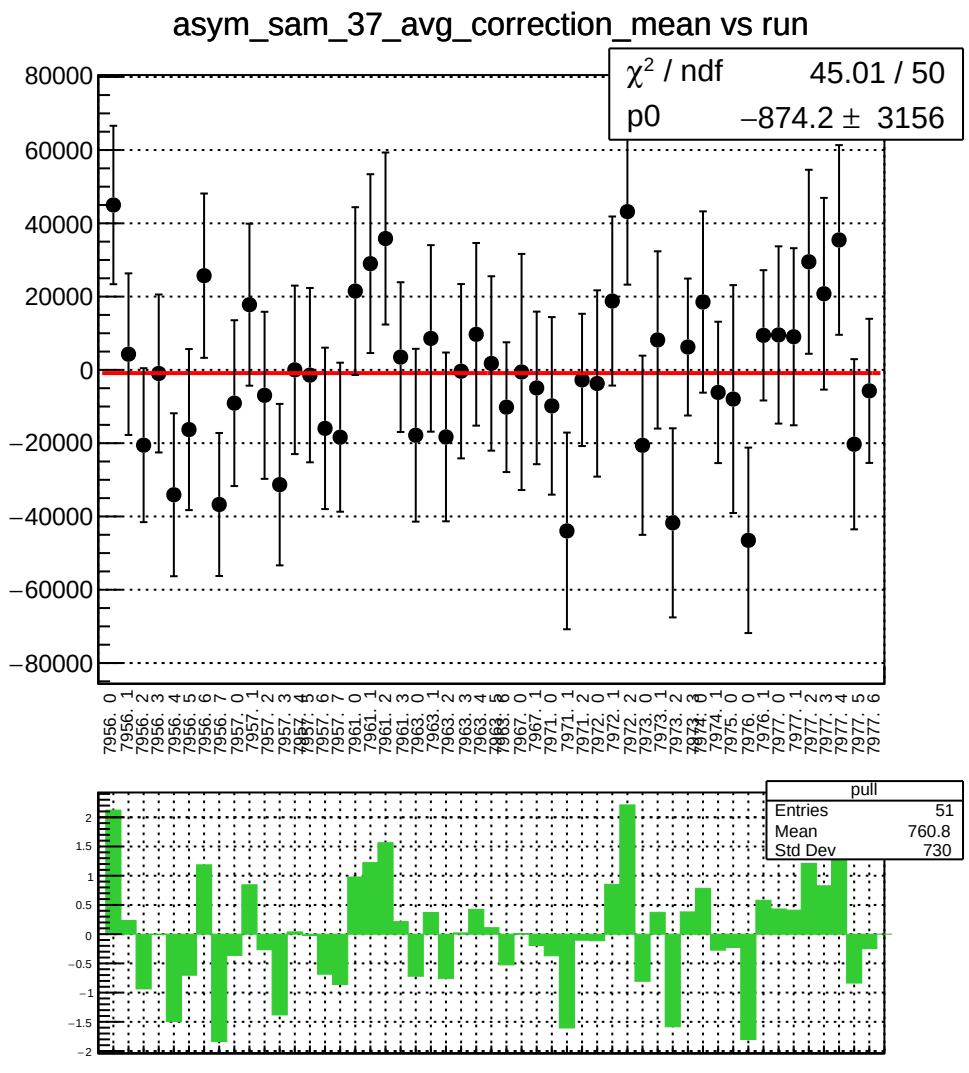
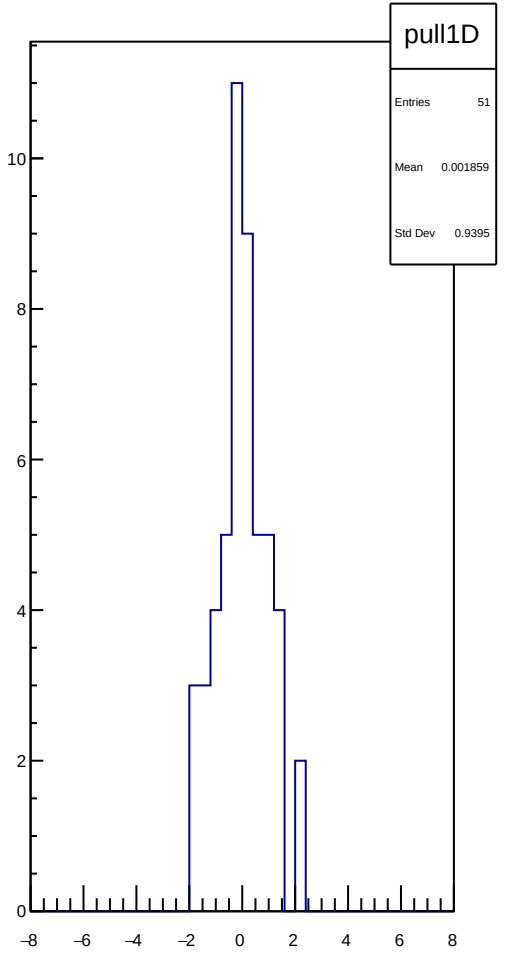
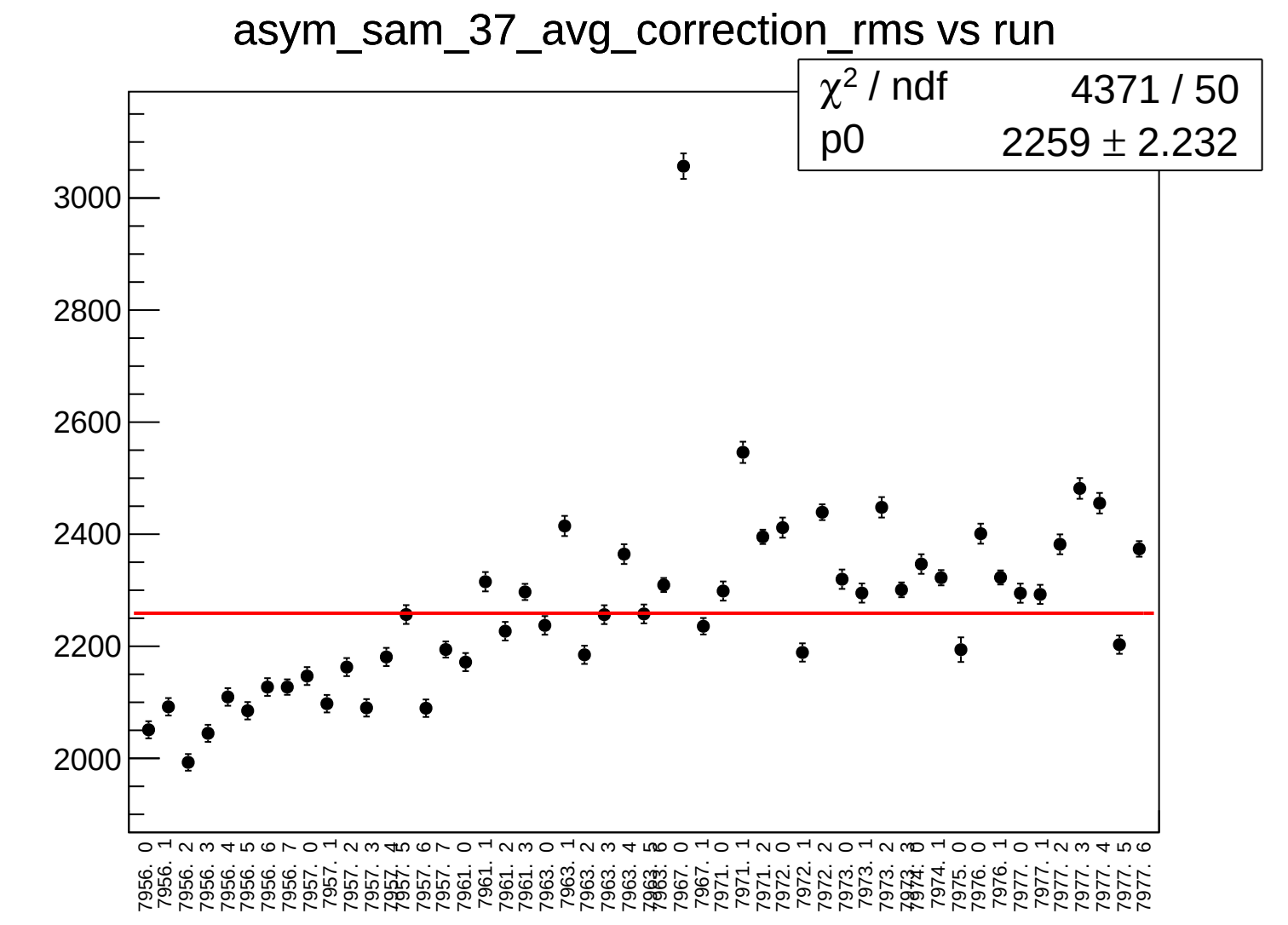
7977. 5
7977. 6


asym_sam_37_avg_correction_mean vs run
χ² / ndf 45.01 / 50
p0 −874.2 ± 3156
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 760.8
Std Dev 730
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.001859
Std Dev 0.9395
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 4371 / 50
p0 2259 ± 2.232
3000
2800
2600
2400
2200
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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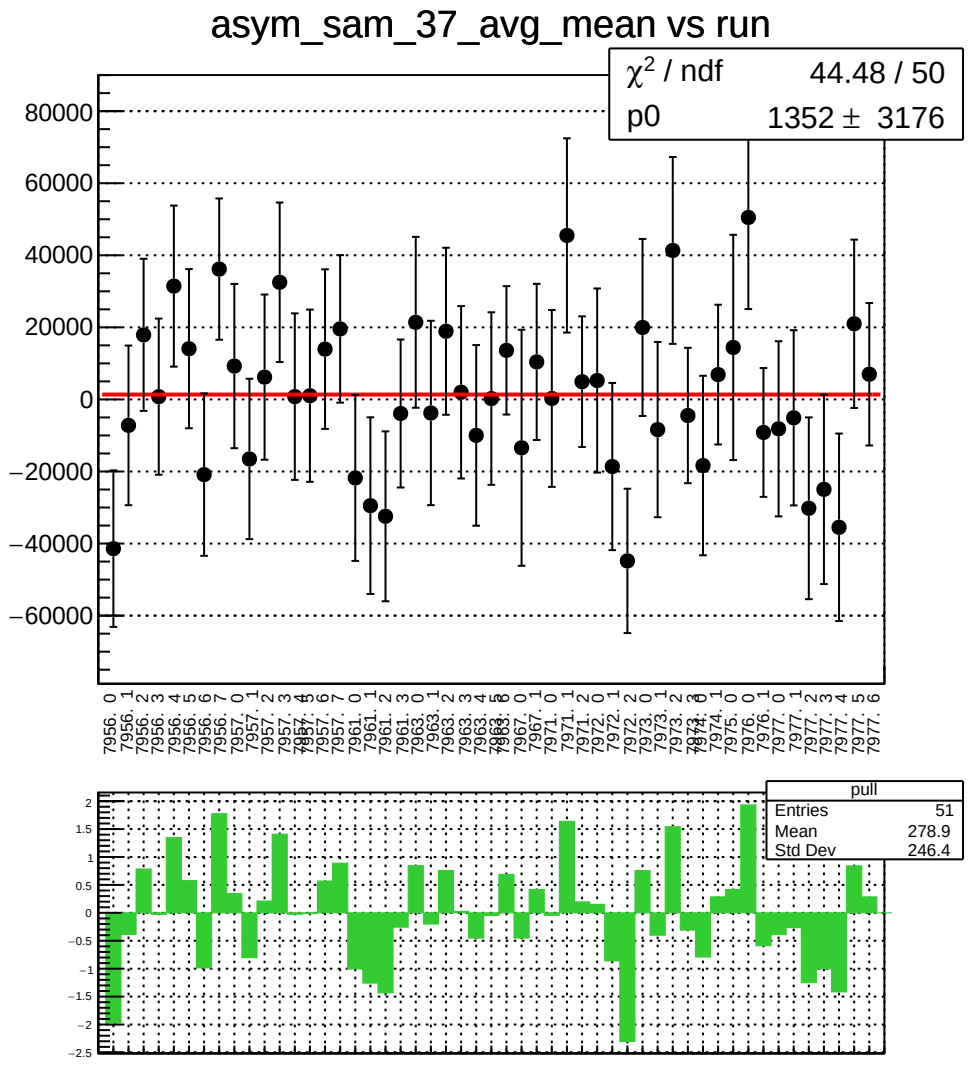
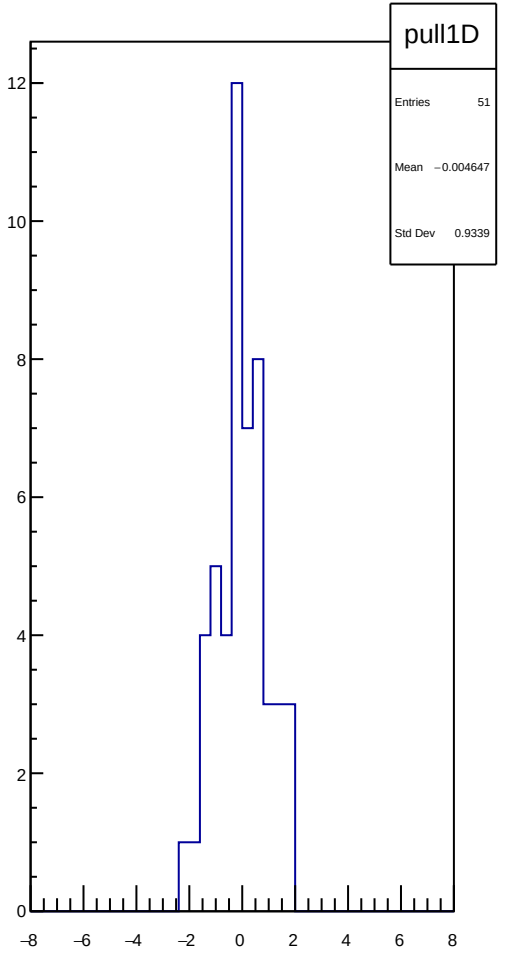
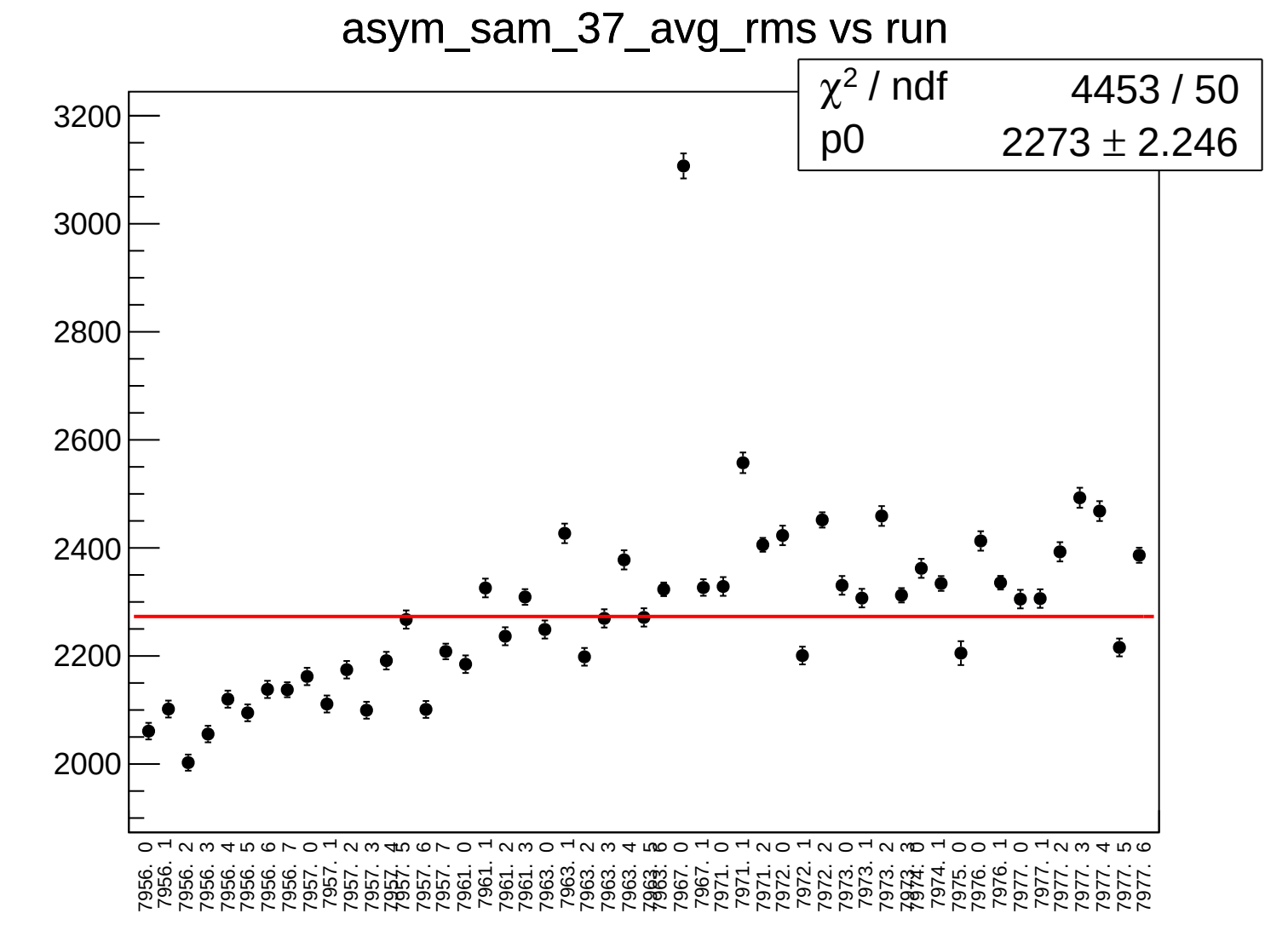
7977. 5
7977. 6


asym_sam_37_avg_mean vs run
χ² / ndf 44.48 / 50
p0 1352 ± 3176
pull
Entries 51
Mean 278.9
Std Dev 246.4


pull1D
Entries 51
Mean −0.004647
Std Dev 0.9339


asym_sam_37_avg_rms vs run
χ² / ndf 4453 / 50
p0 2273 ± 2.246
3200
3000
2800
2600
2400
2200
2000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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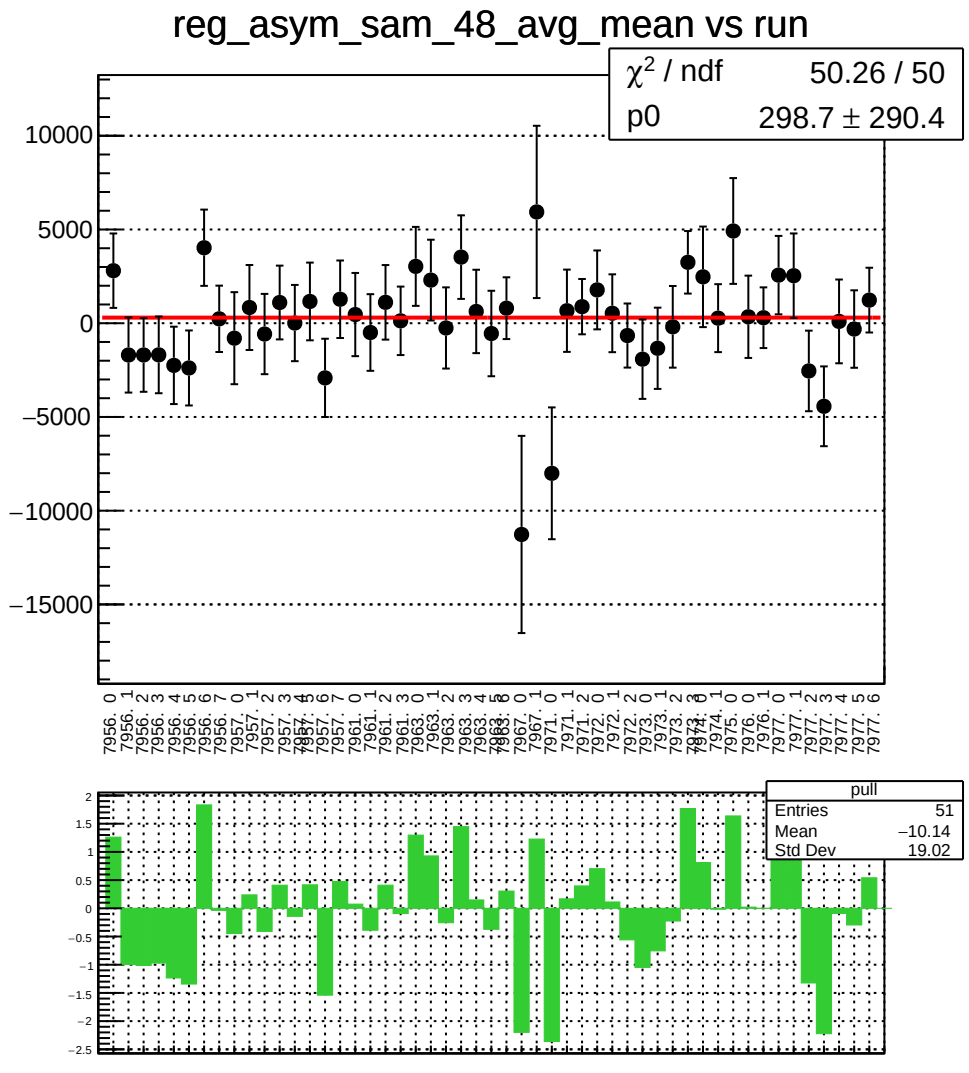
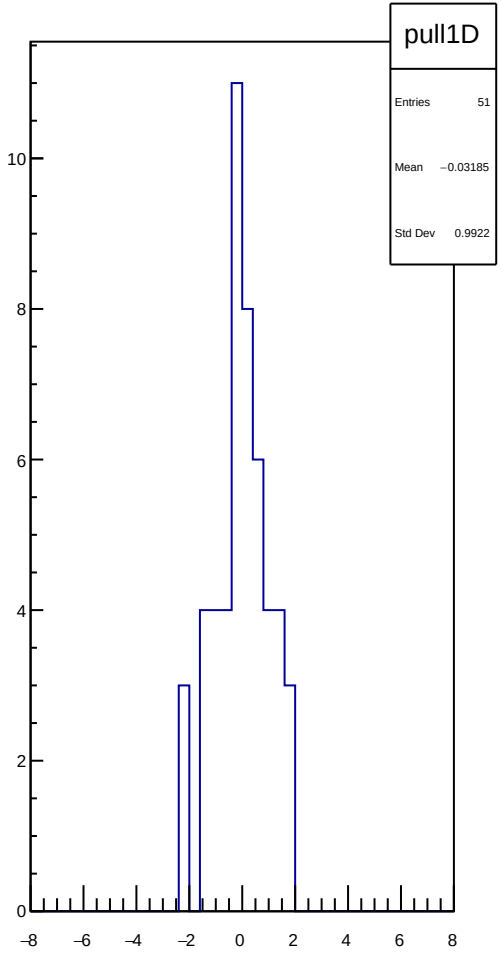
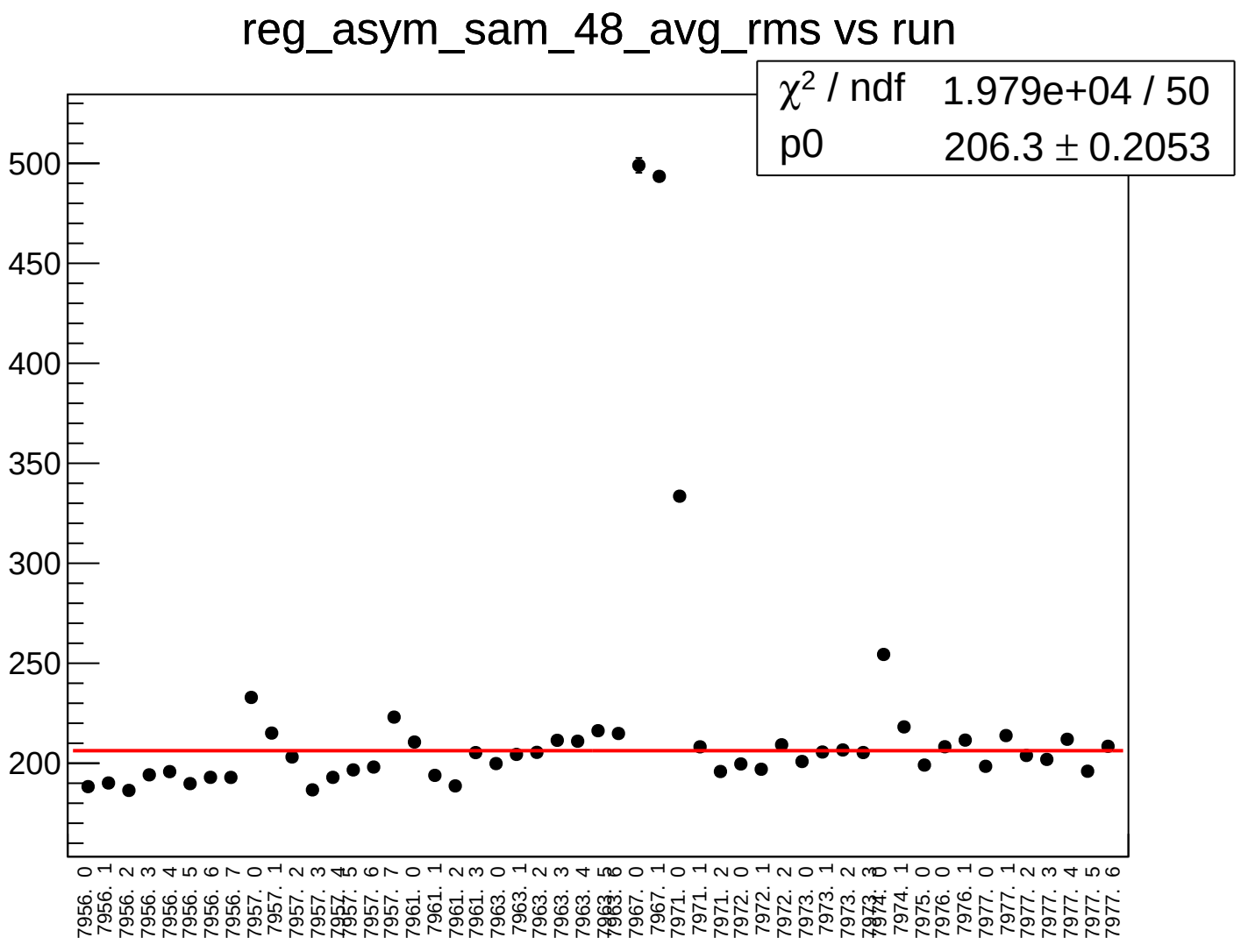
7977. 5
7977. 6


reg_asym_sam_48_avg_mean vs run
χ² / ndf 50.26 / 50
p0 298.7 ± 290.4
pull
Entries 51
Mean −10.14
Std Dev 19.02


pull1D
Entries 51
Mean −0.03185
Std Dev 0.9922


reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.979e+04 / 50
p0 206.3 ± 0.2053
500
450
400
350
300
250
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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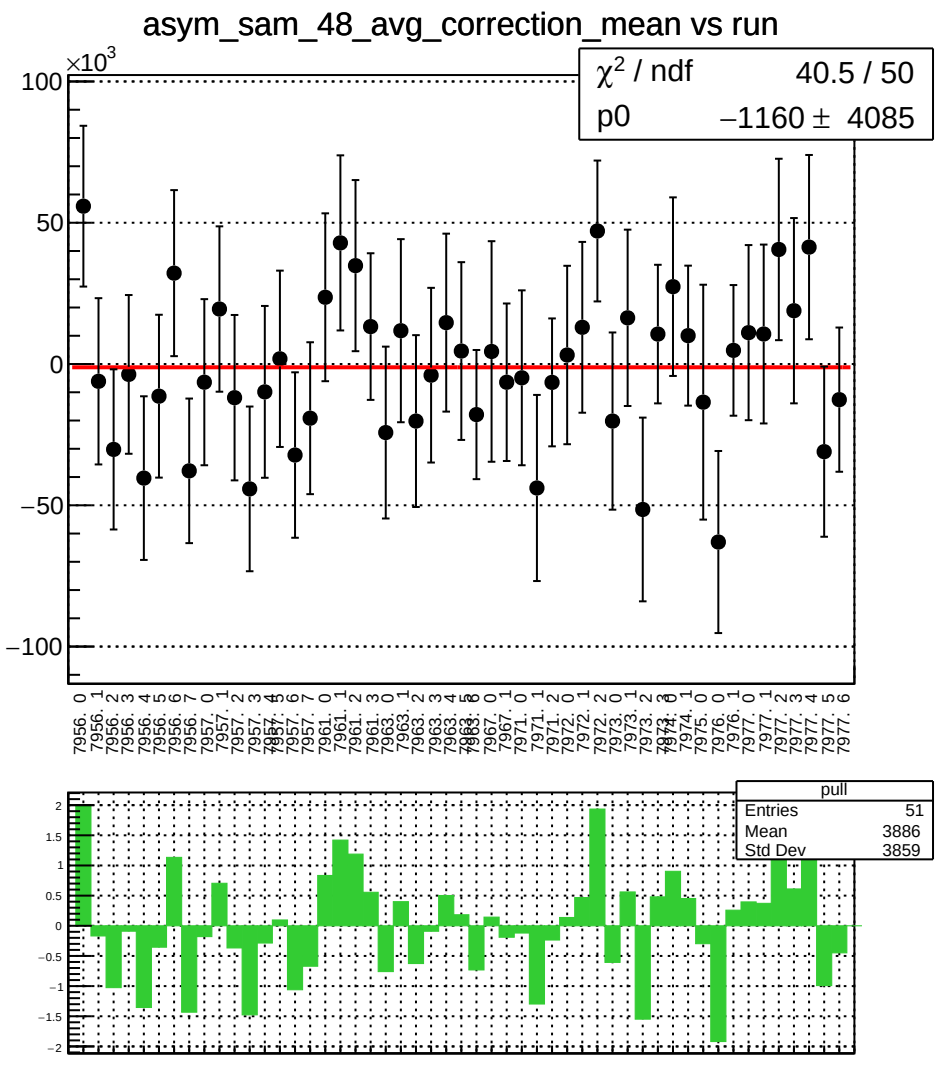
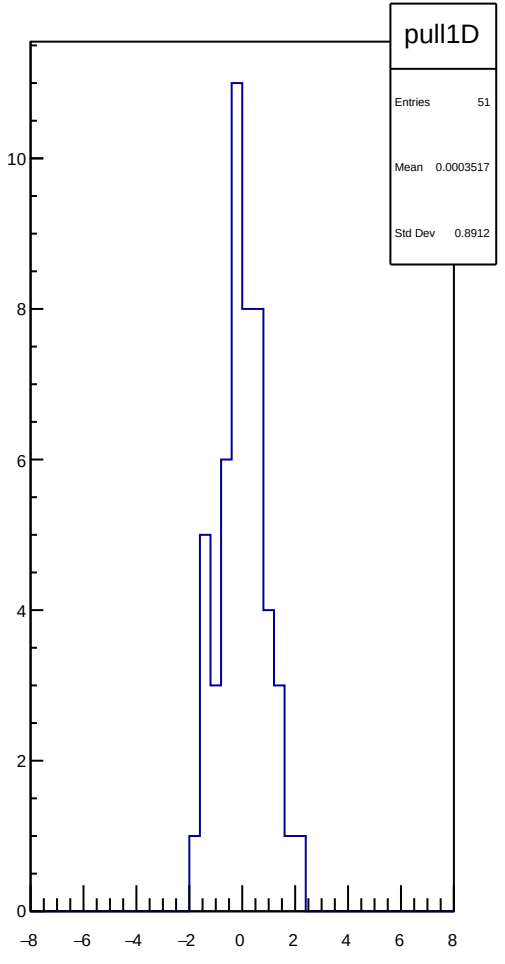
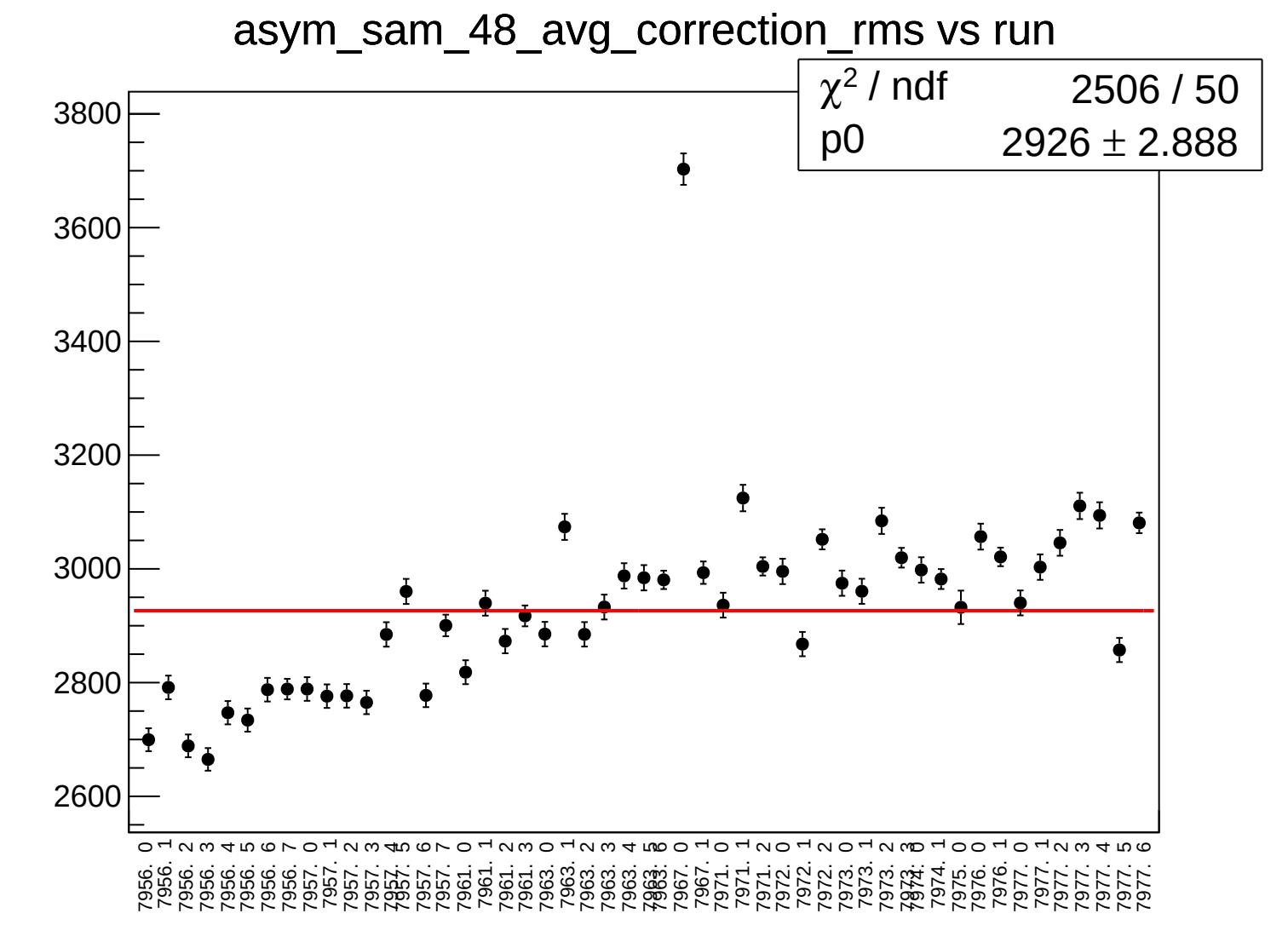
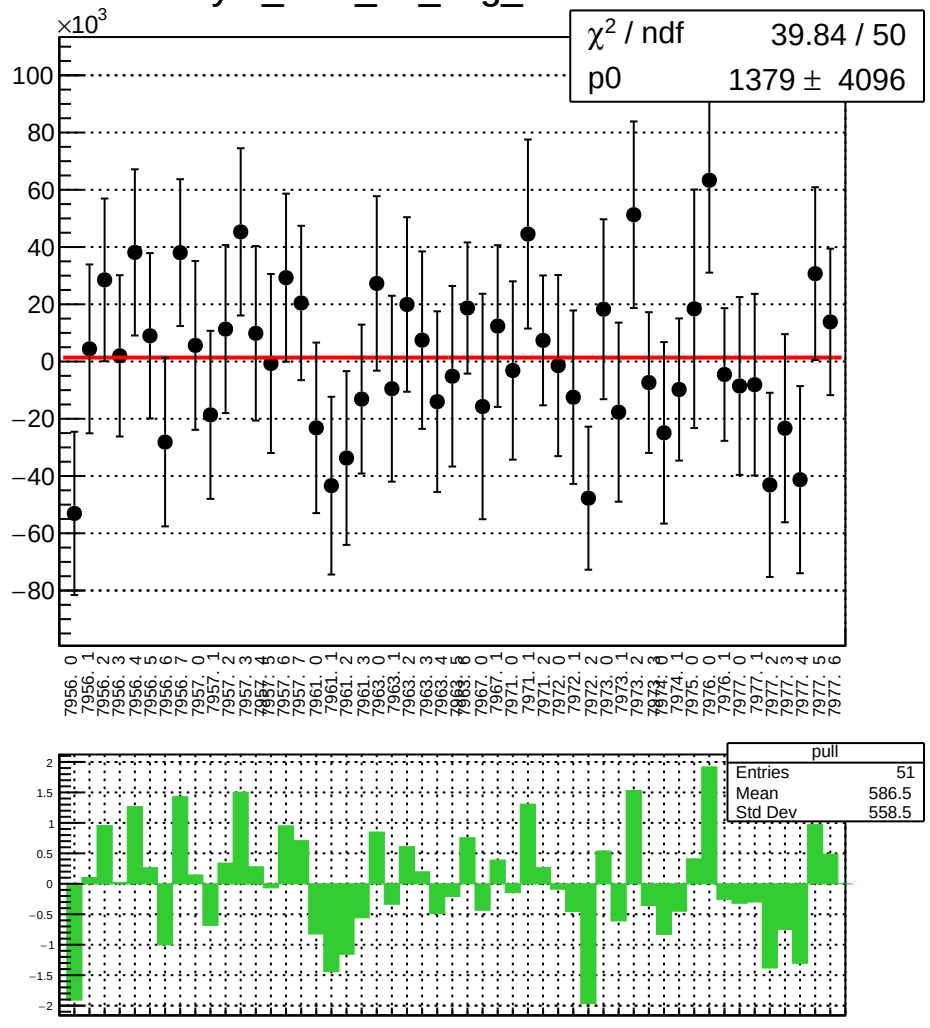
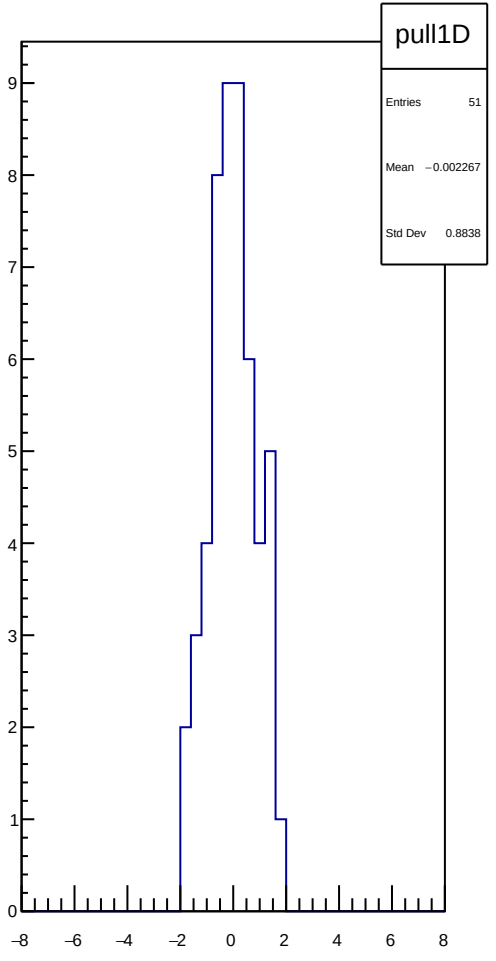
7977. 5
7977. 6

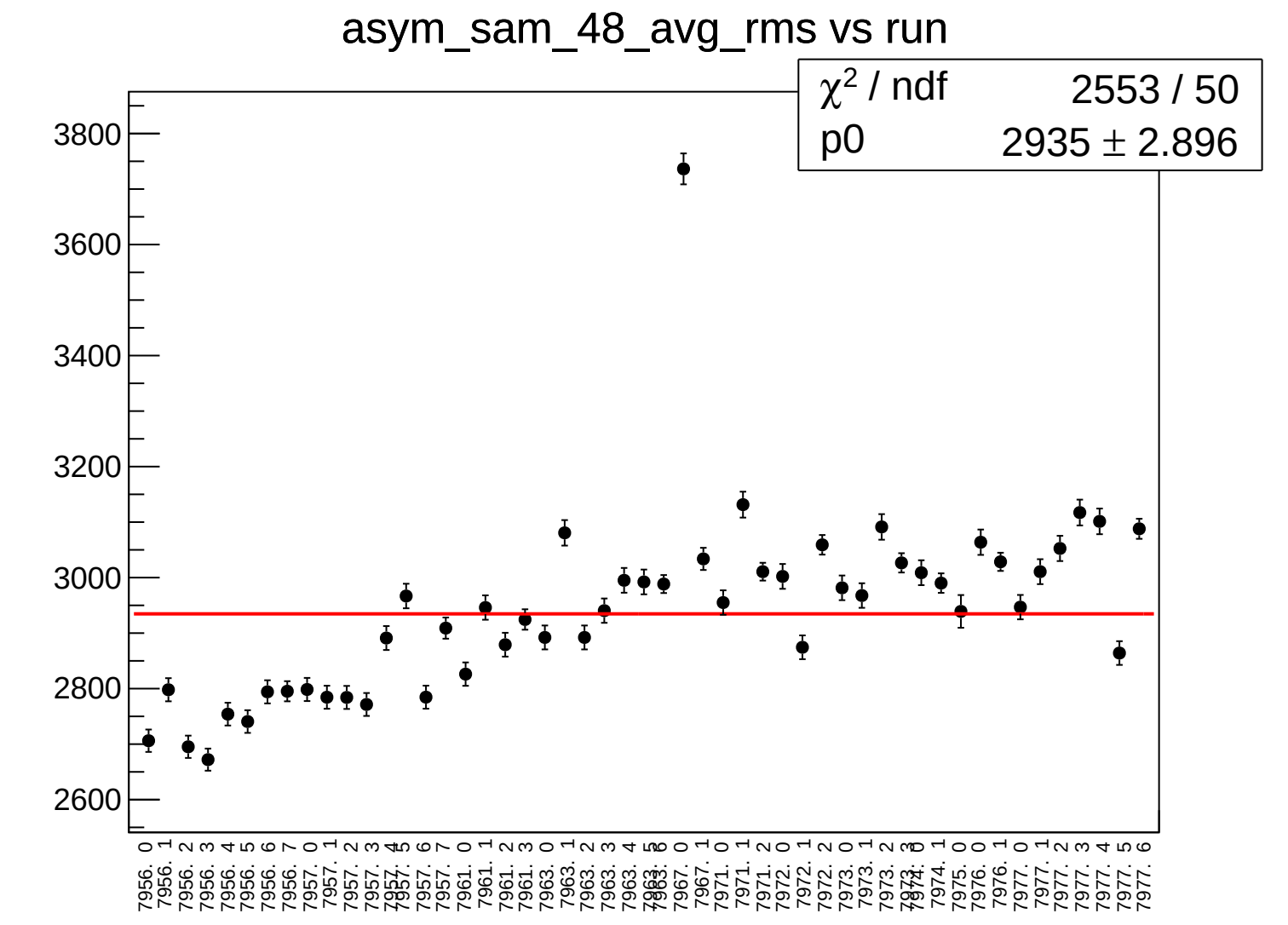

asym_sam_48_avg_correction_mean vs run
×10^3
χ² / ndf 40.5 / 50
p0 −1160 ± 4085
pull
Entries 51
Mean 3886
Std Dev 3859

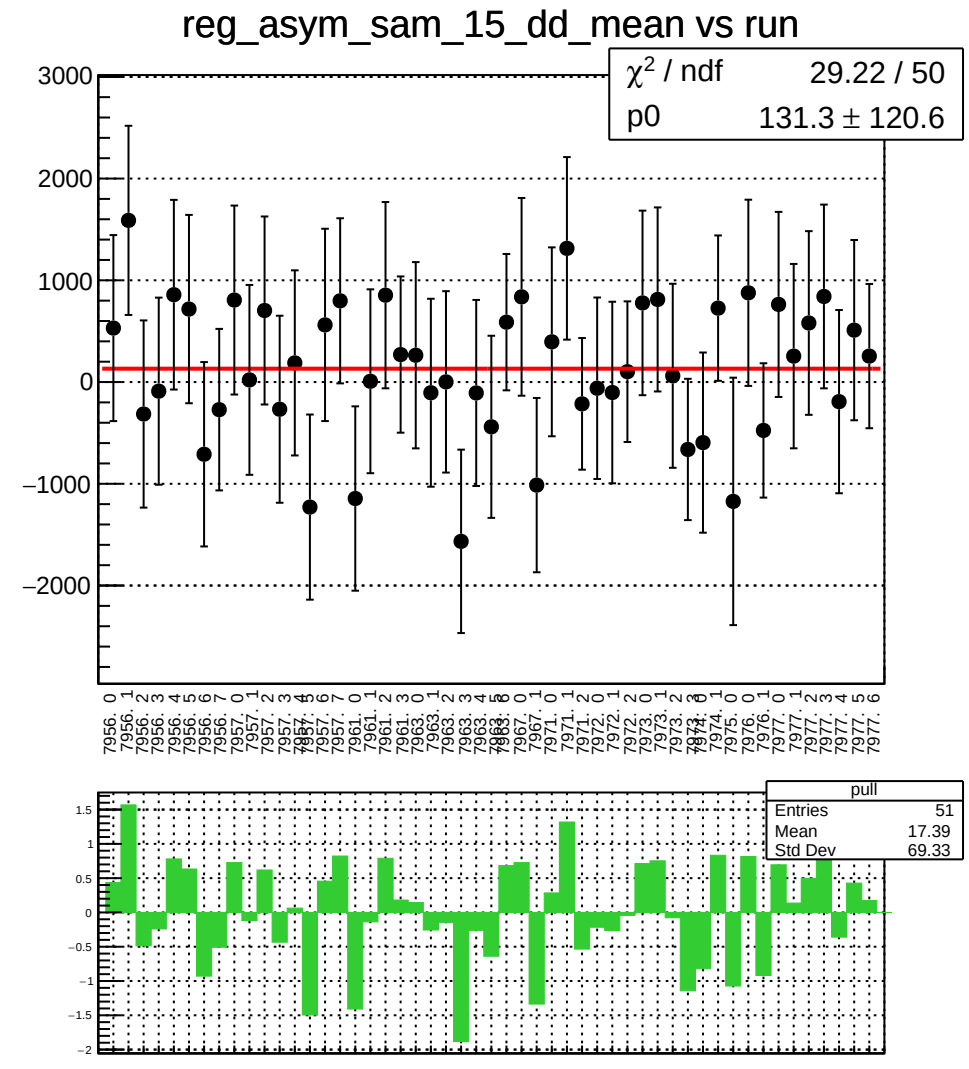

pull1D
Entries 51
Mean 0.0003517
Std Dev 0.8912

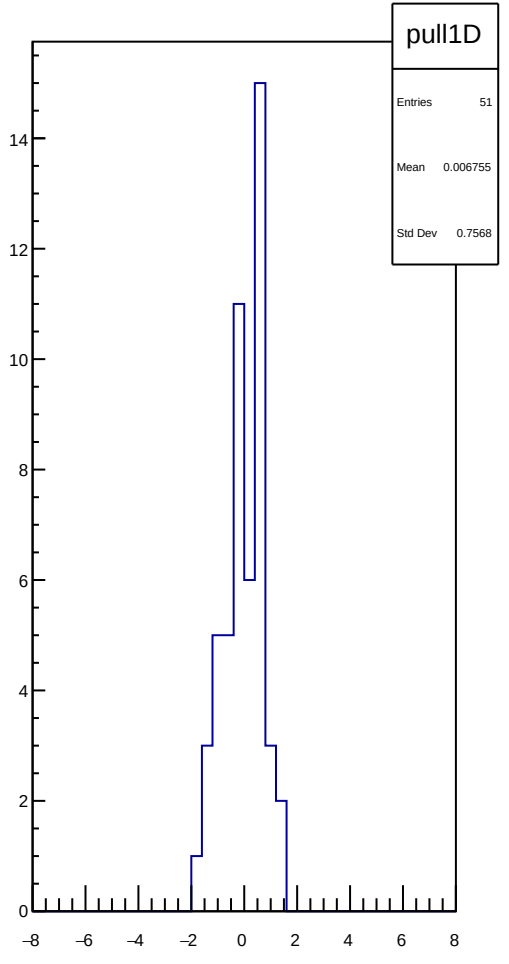

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2506 / 50
p0 2926 ± 2.888
3800
3600
3400
3200
3000
2800
2600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

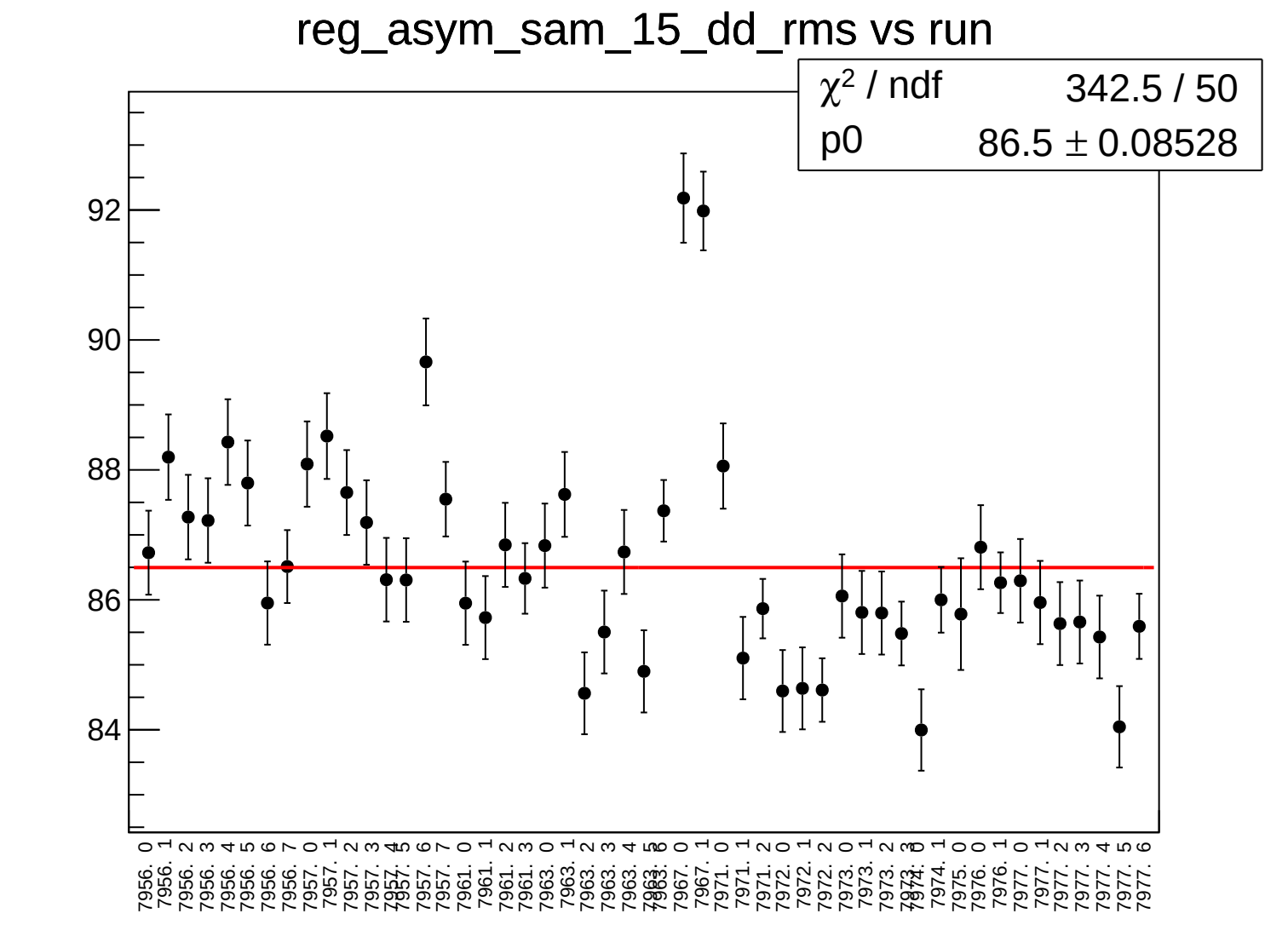

asym_sam_48_avg_mean vs run
×10^3
χ² / ndf 39.84 / 50
p0 1379 ± 4096
pull
Entries 51
Mean 586.5
Std Dev 558.5


pull1D
Entries 51
Mean −0.002267
Std Dev 0.8838


asym_sam_48_avg_rms vs run
χ² / ndf 2553 / 50
p0 2935 ± 2.896
3800
3600
3400
3200
3000
2800
2600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_15_dd_mean vs run
χ² / ndf 29.22 / 50
p0 131.3 ± 120.6
3000
2000
1000
0
−1000
−2000
pull
Entries 51
Mean 17.39
Std Dev 69.33
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.006755
Std Dev 0.7568
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_dd_rms vs run
χ² / ndf 342.5 / 50
p0 86.5 ± 0.08528
92
90
88
86
84
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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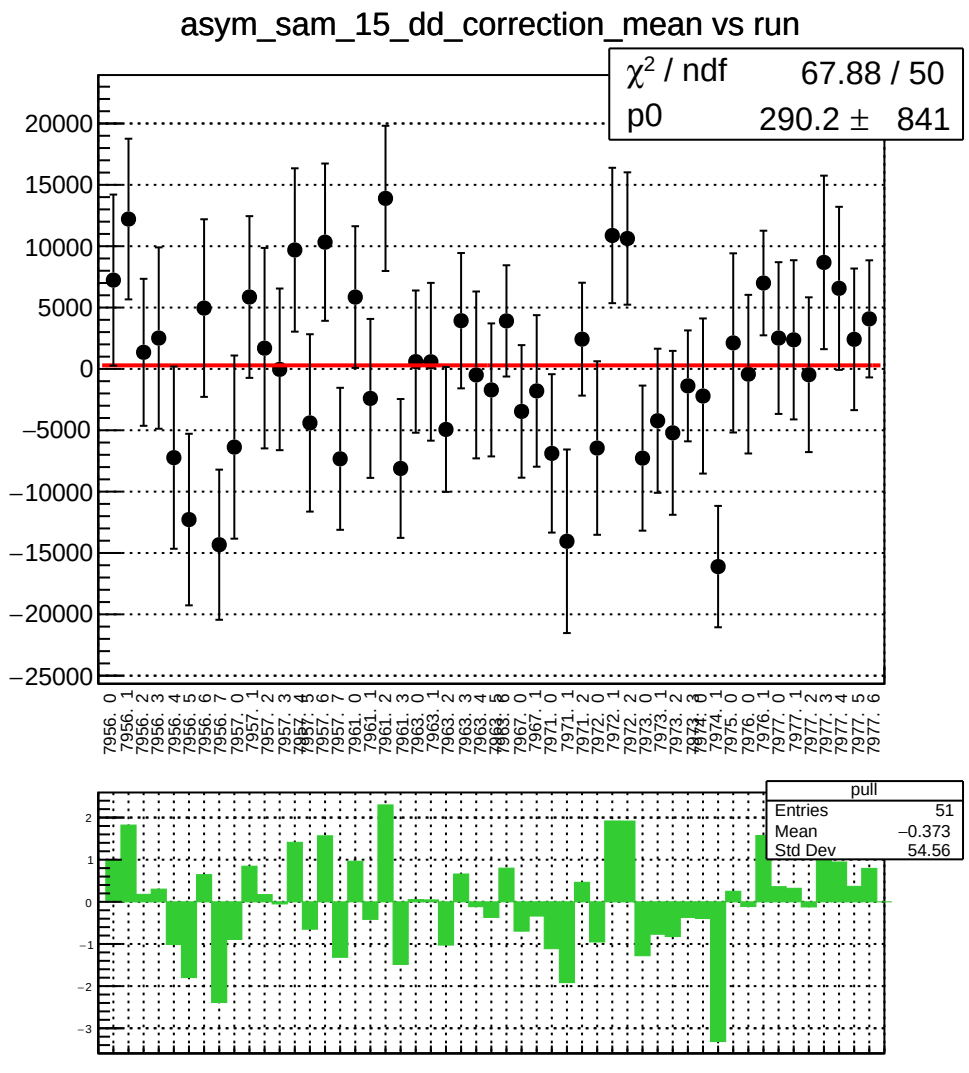
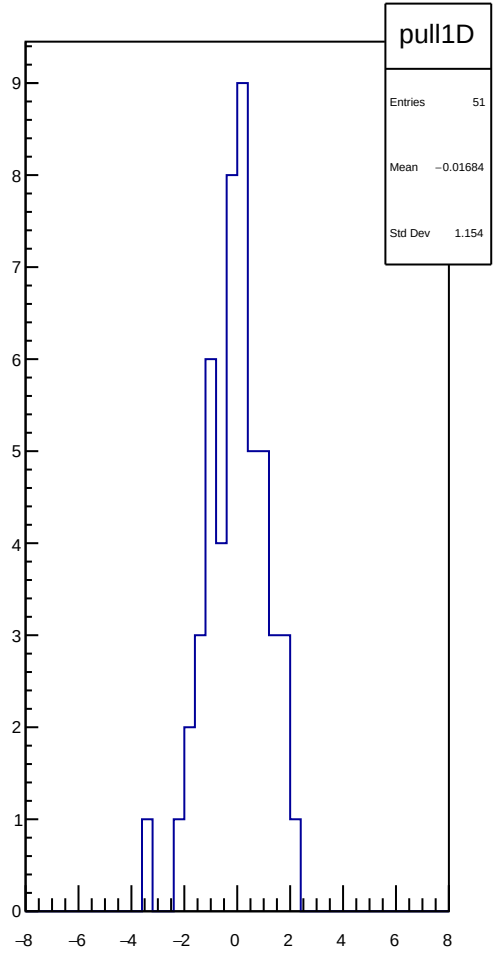
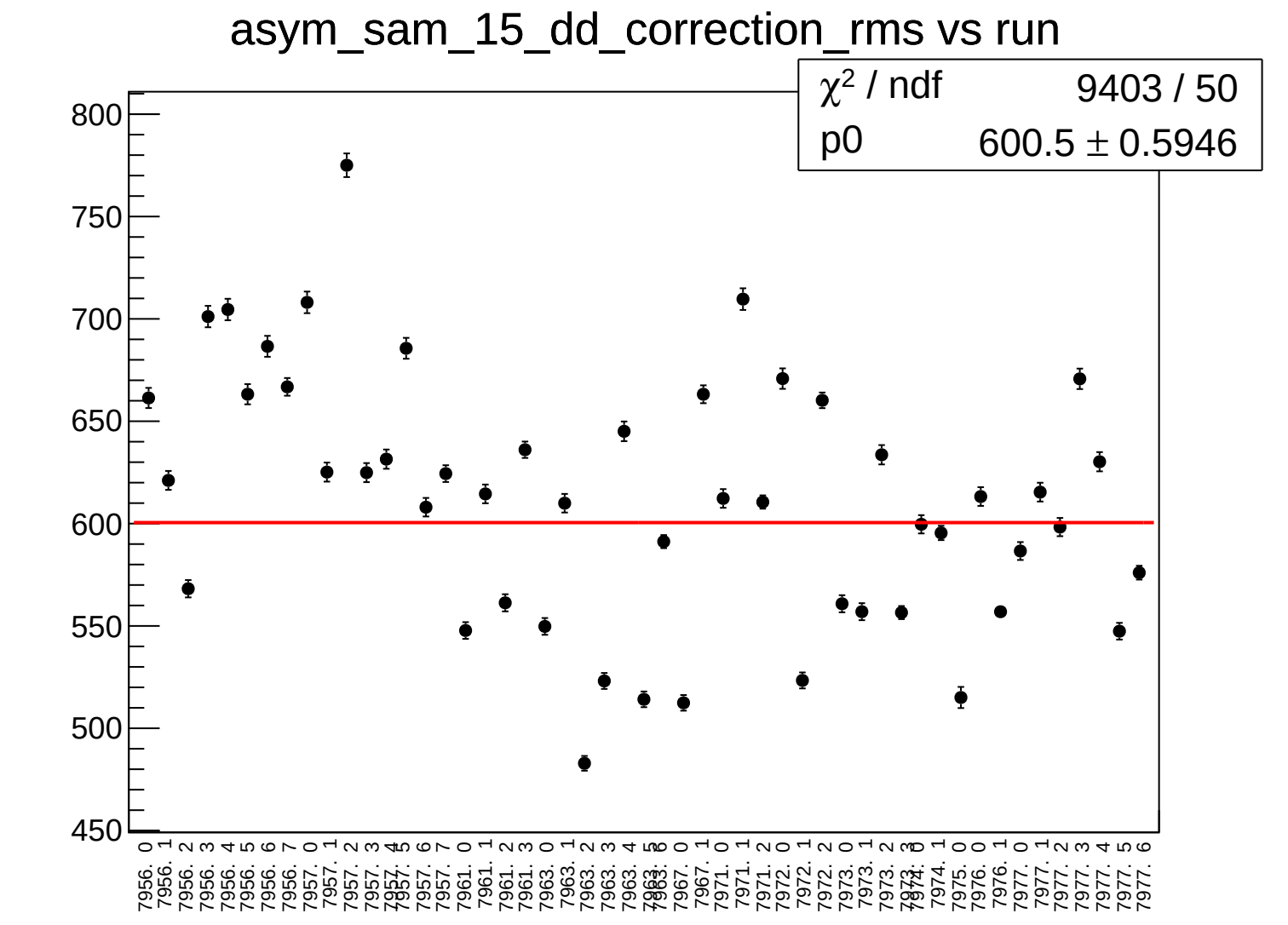
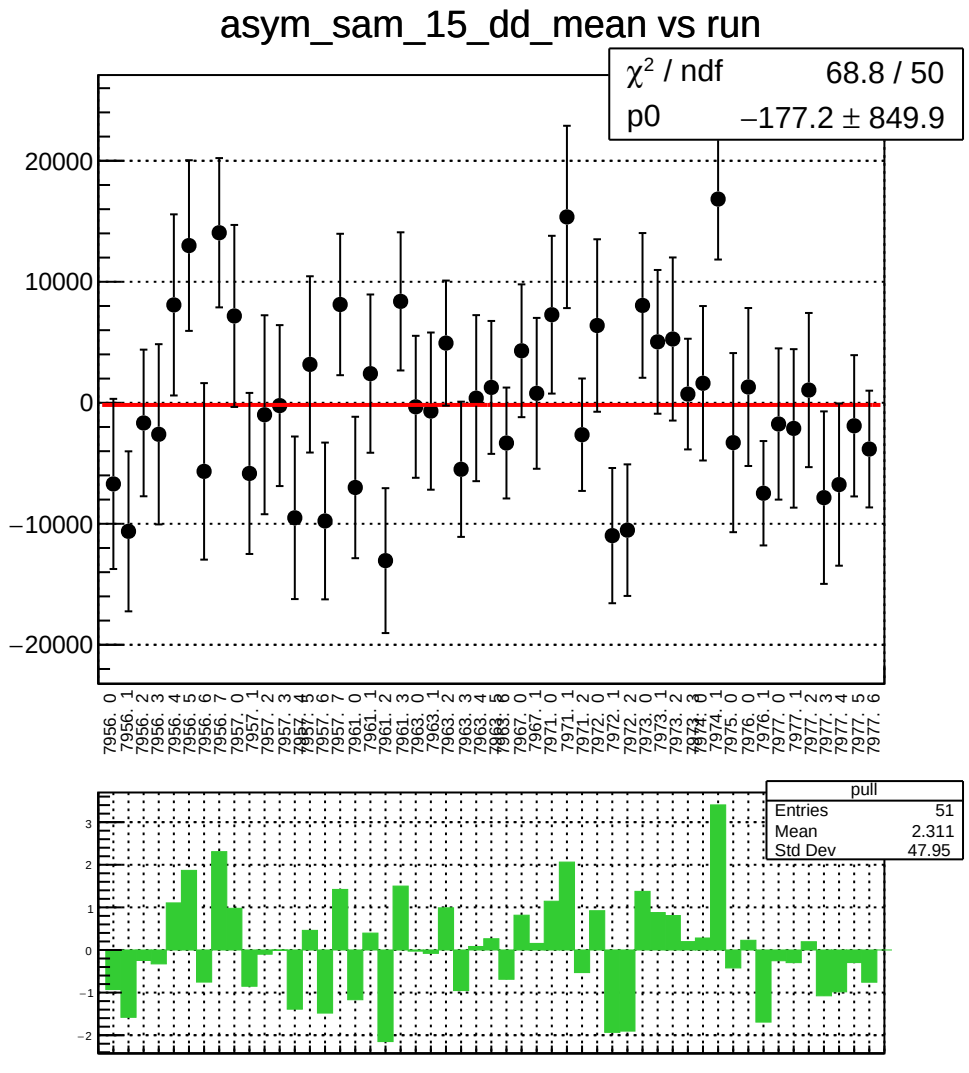
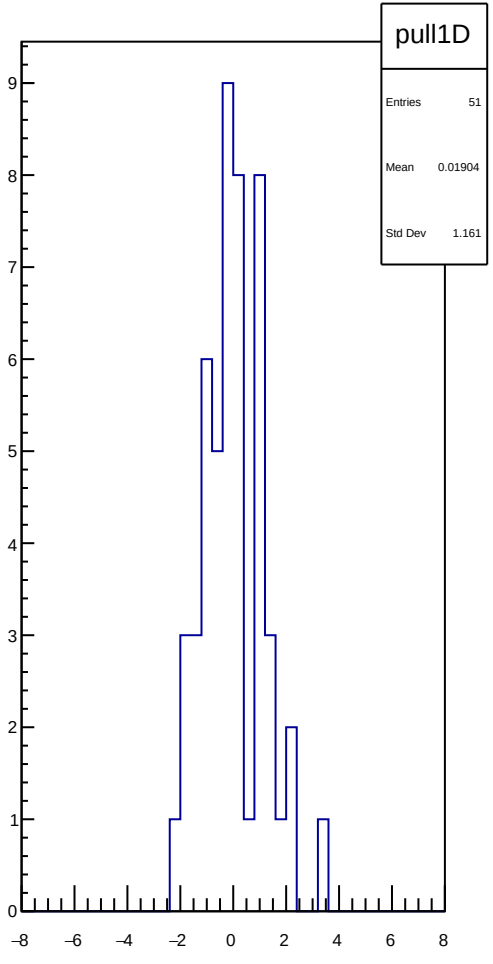
7977. 5
7977. 6

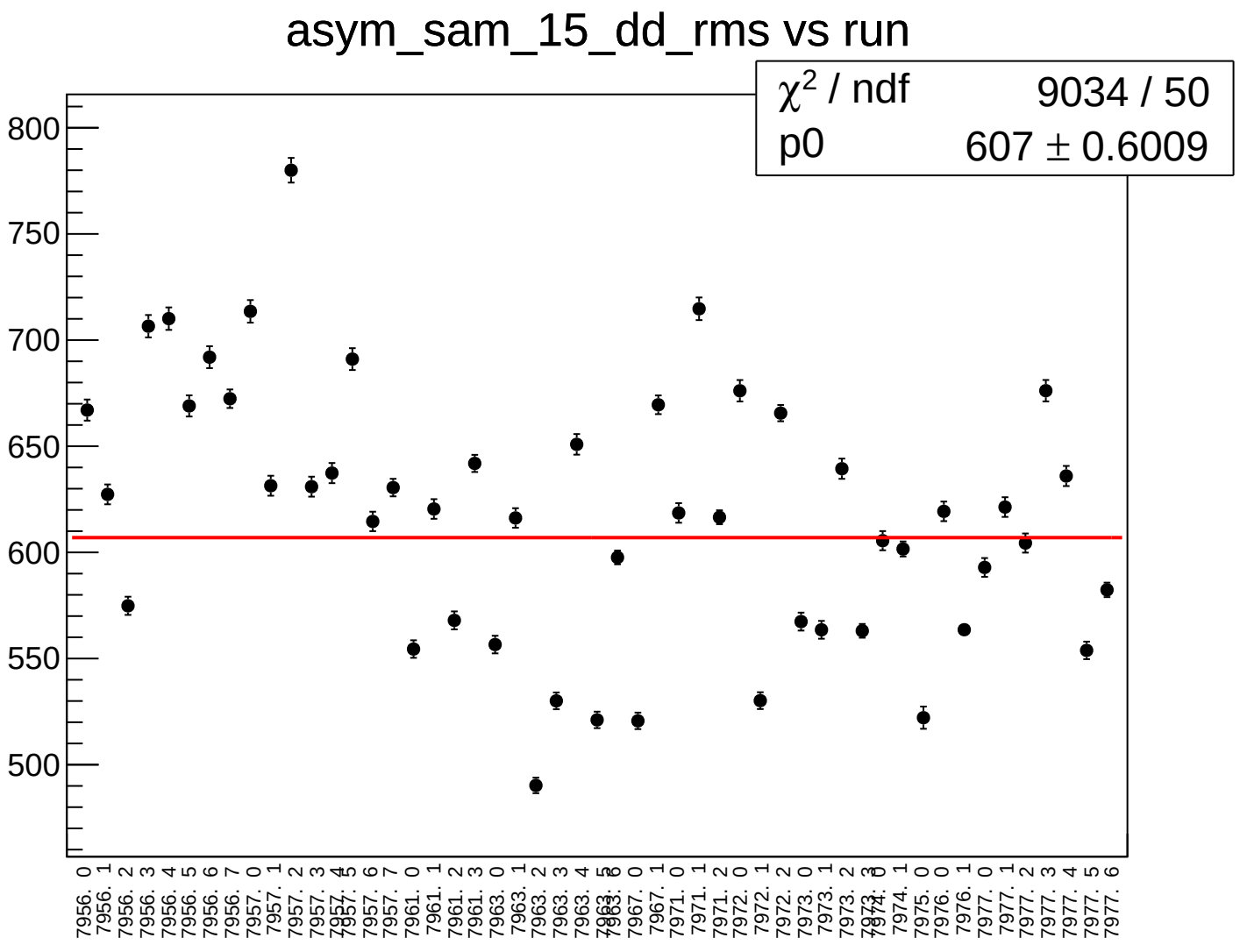

asym_sam_15_dd_correction_mean vs run
χ² / ndf 67.88 / 50
p0 290.2 ± 841
pull
Entries 51
Mean −0.373
Std Dev 54.56


pull1D
Entries 51
Mean −0.01684
Std Dev 1.154


asym_sam_15_dd_correction_rms vs run
χ² / ndf 9403 / 50
p0 600.5 ± 0.5946
800
750
700
650
600
550
500
450
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_15_dd_mean vs run
χ² / ndf 68.8 / 50
p0 −177.2 ± 849.9
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 2.311
Std Dev 47.95
3
2
1
0
−1
−2


pull1D
Entries 51
Mean 0.01904
Std Dev 1.161
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 9034 / 50
p0 607 ± 0.6009
800
750
700
650
600
550
500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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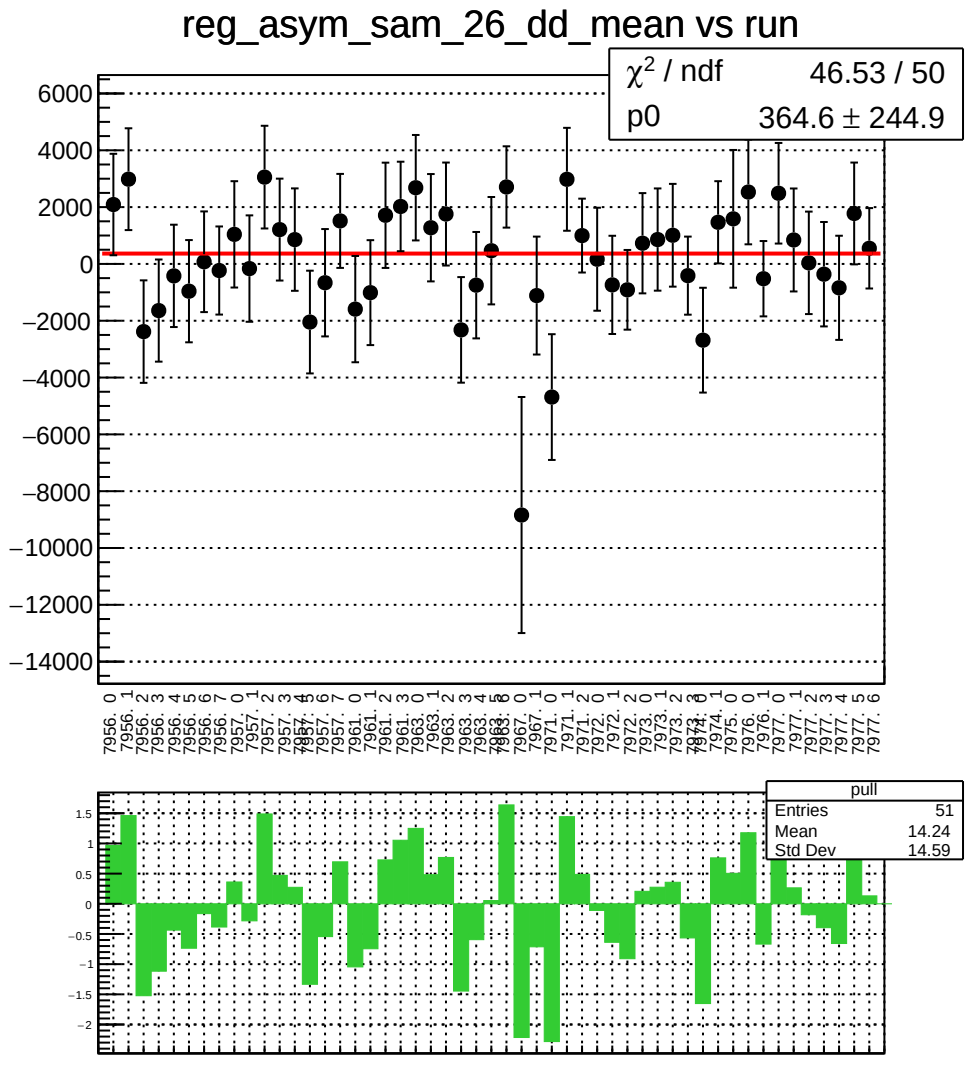
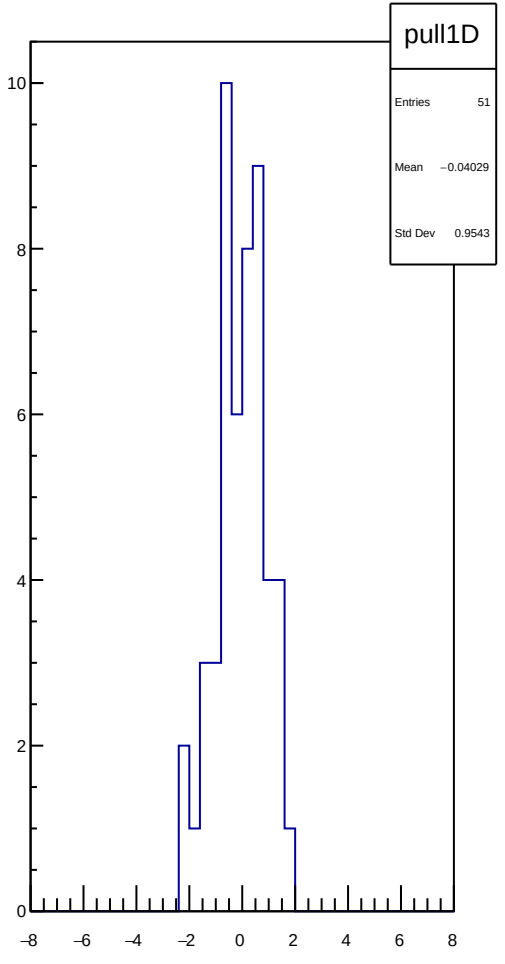
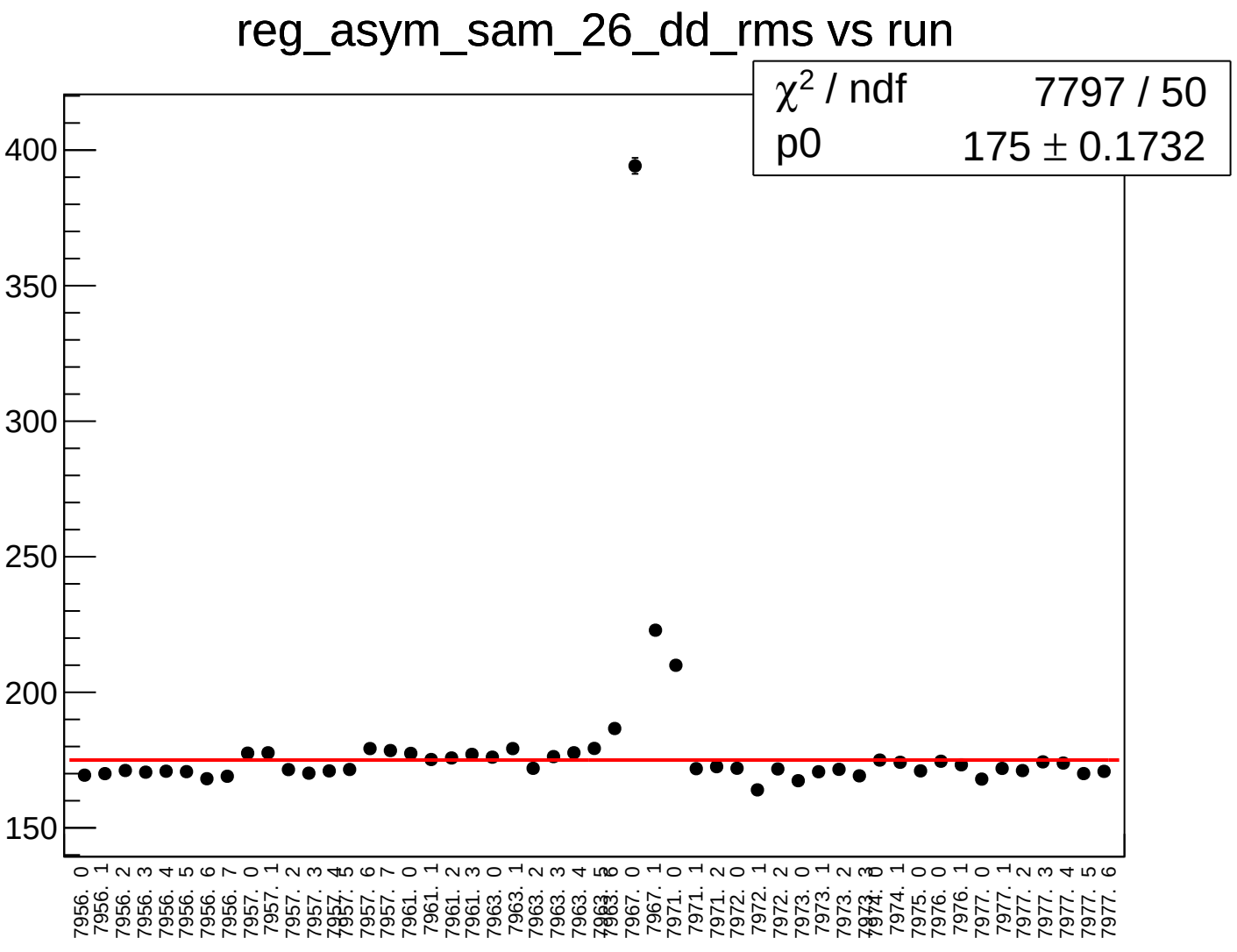
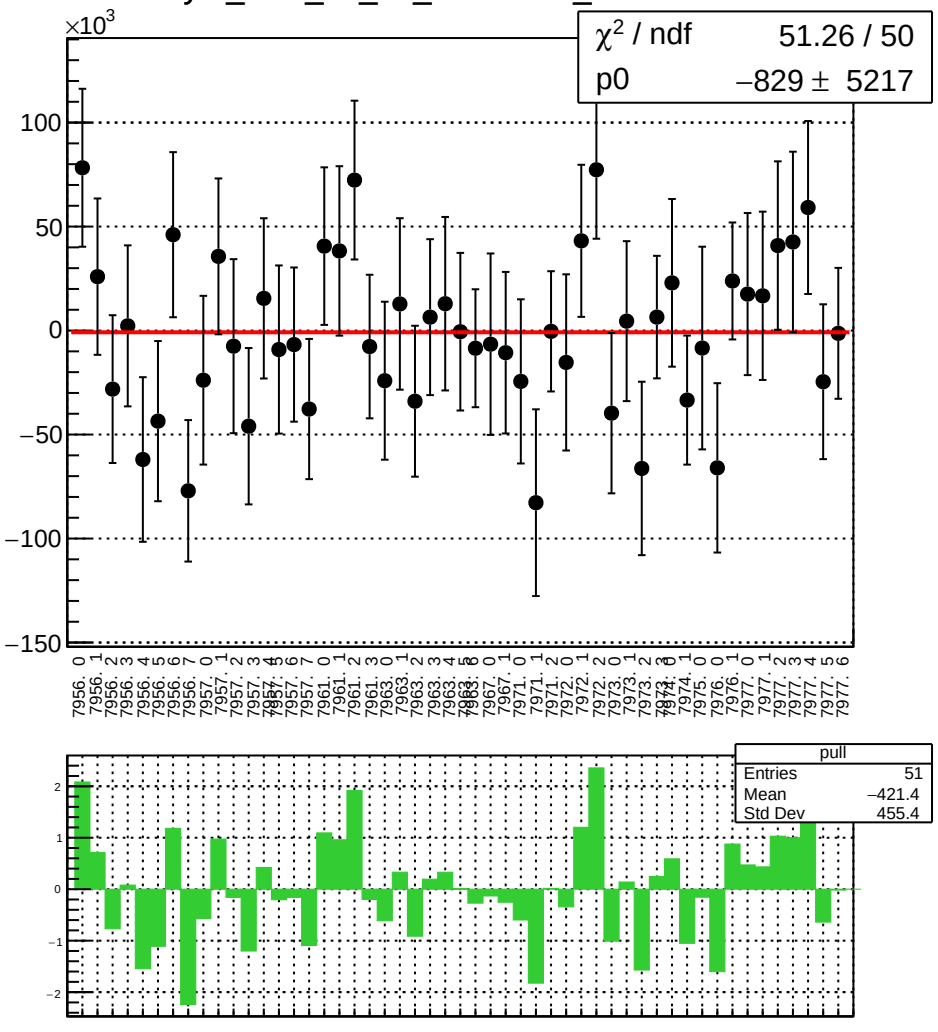
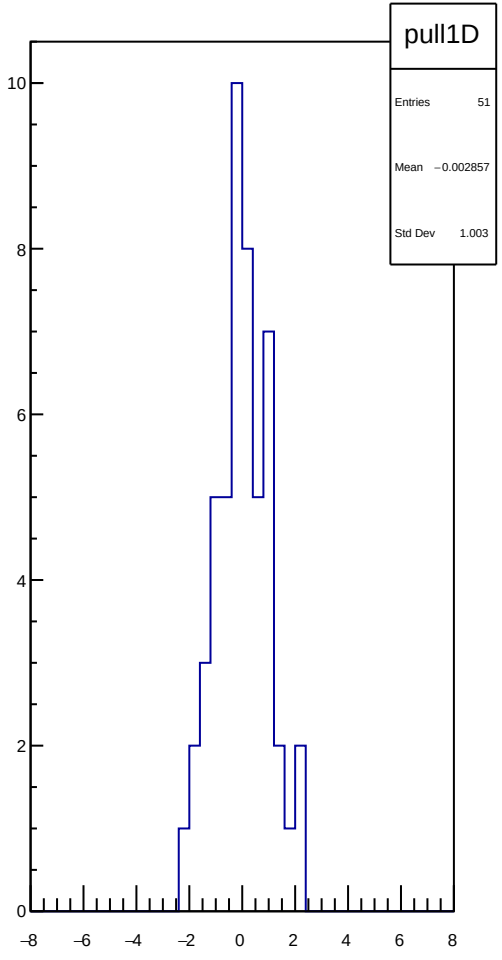
7977. 5
7977. 6

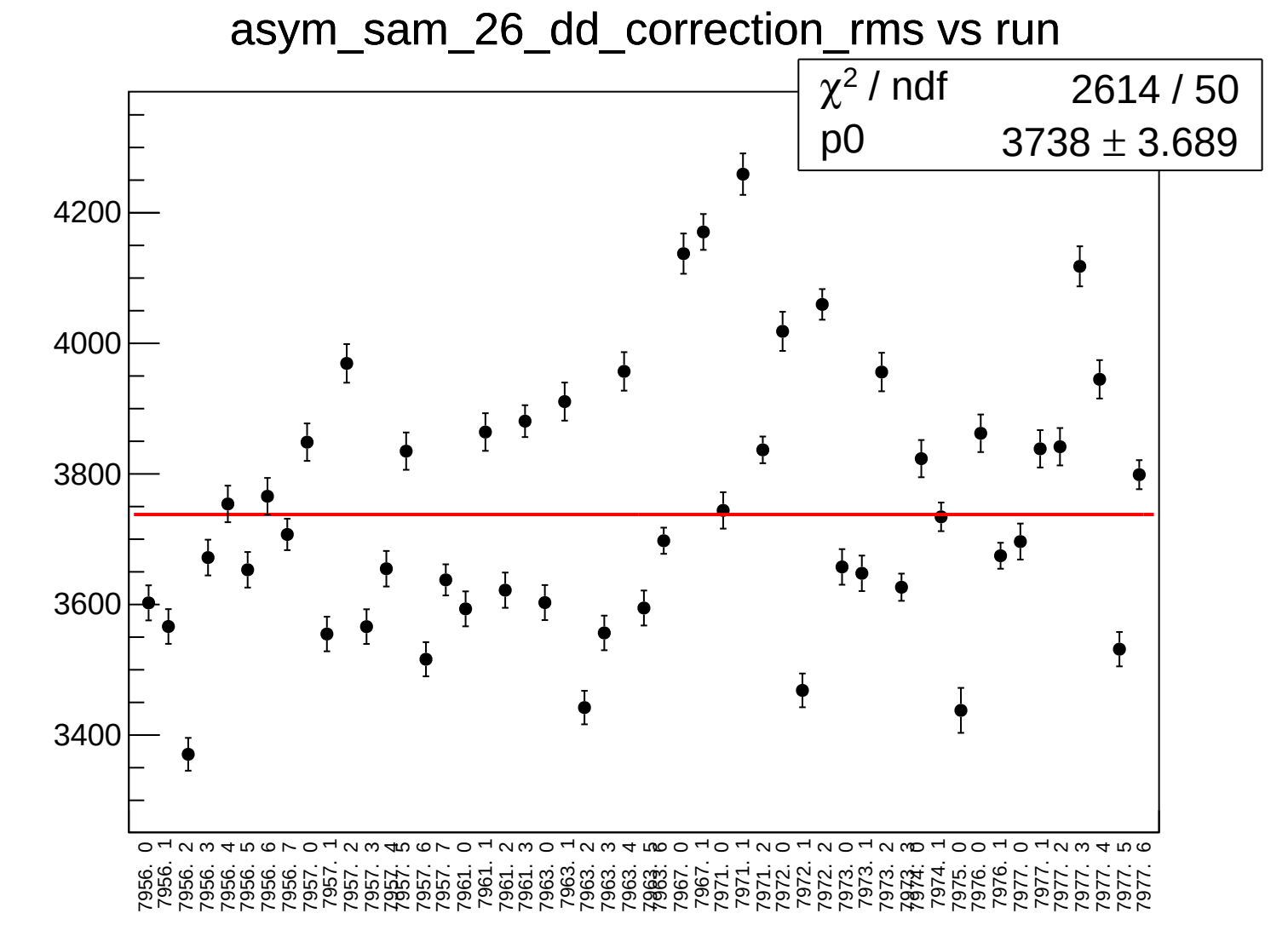

reg_asym_sam_26_dd_mean vs run
χ^2 / ndf 46.53 / 50
p0 364.6 ± 244.9
pull
Entries 51
Mean 14.24
Std Dev 14.59


pull1D
Entries 51
Mean −0.04029
Std Dev 0.9543


reg_asym_sam_26_dd_rms vs run
χ² / ndf 7797 / 50
p0 175 ± 0.1732
400
350
300
250
200
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_26_dd_correction_mean vs run
χ² / ndf 51.26 / 50
p0 −829 ± 5217
pull
Entries 51
Mean −421.4
Std Dev 455.4


pull1D
Entries 51
Mean −0.002857
Std Dev 1.003


asym_sam_26_dd_correction_rms vs run
χ² / ndf 2614 / 50
p0 3738 ± 3.689
4200
4000
3800
3600
3400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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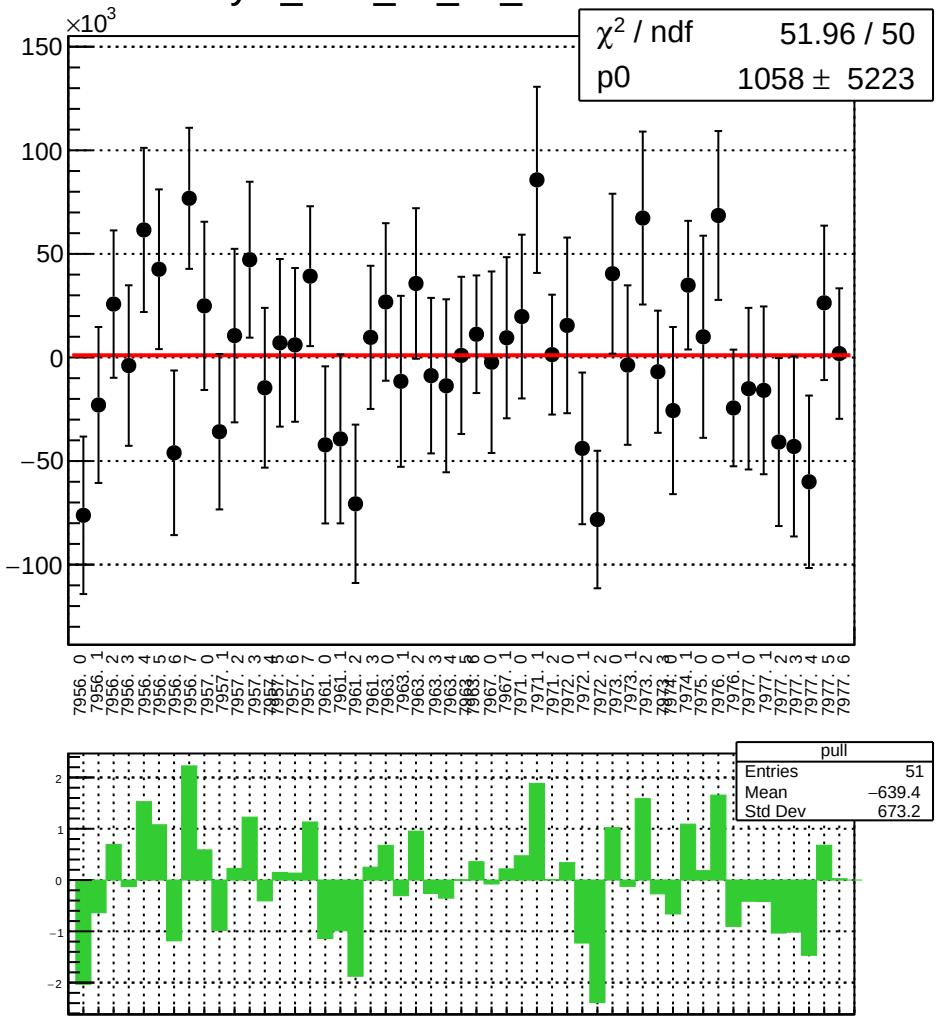
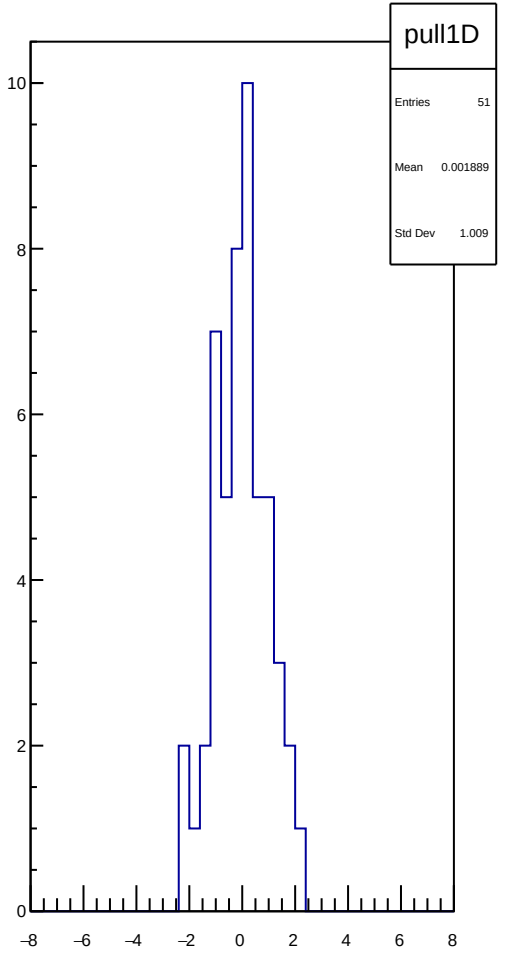
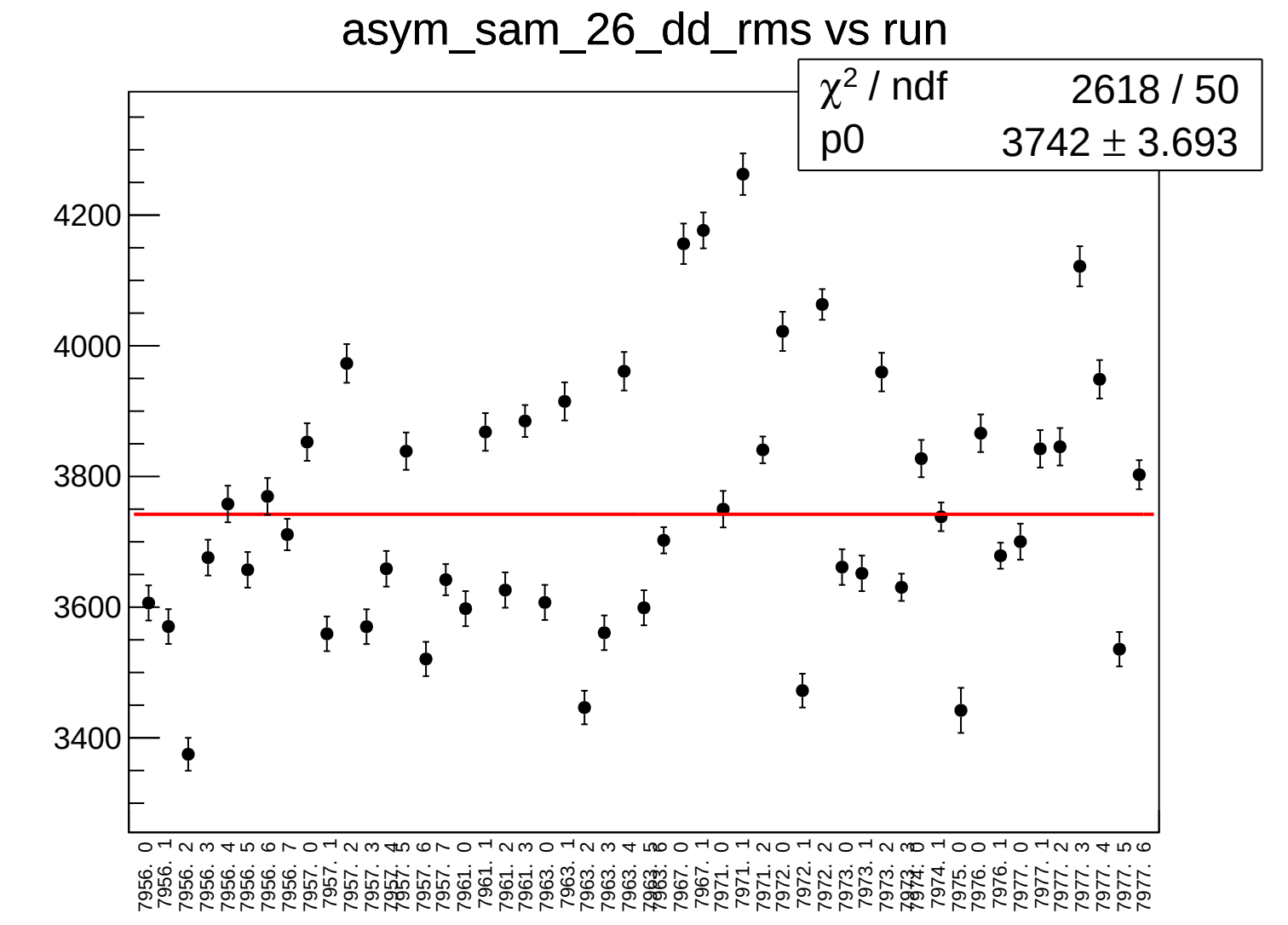
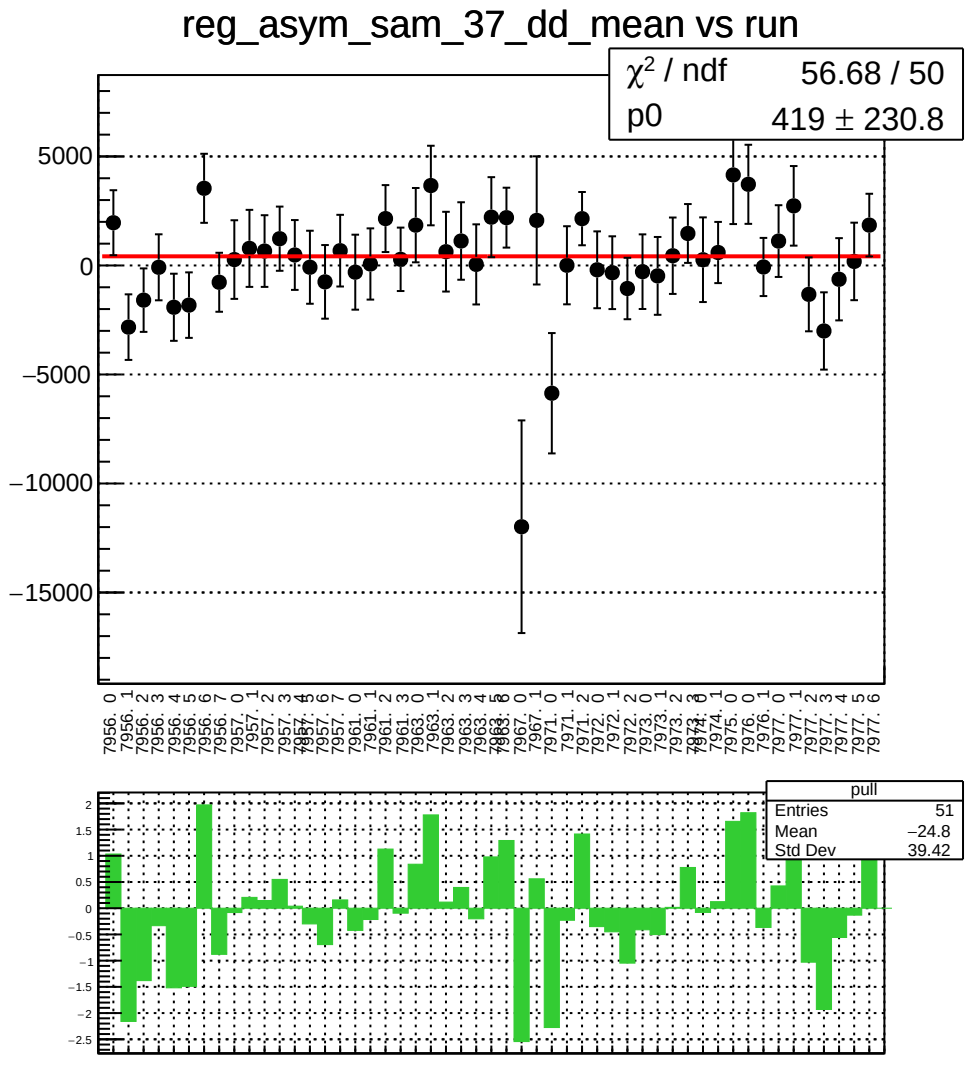
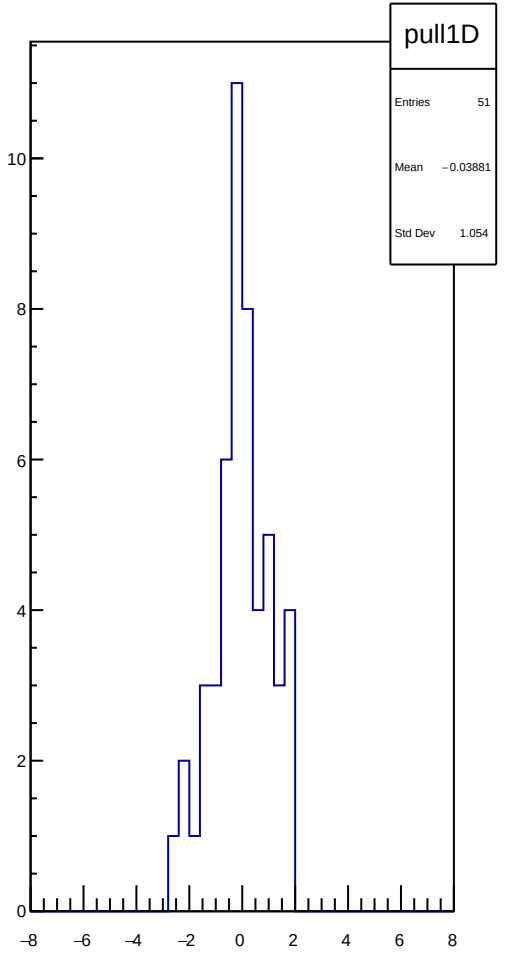
7977. 5
7977. 6

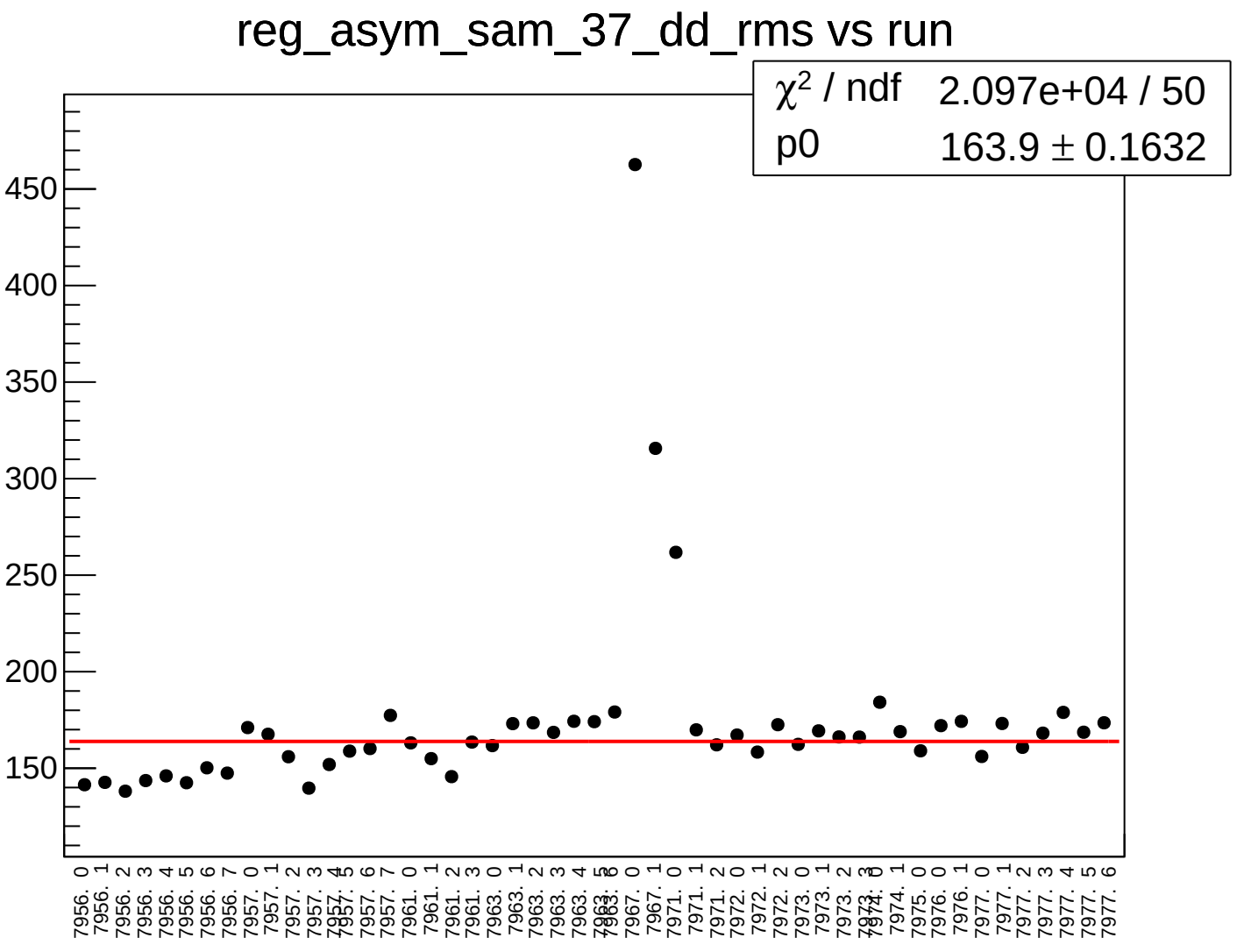

asym_sam_26_dd_mean vs run
×10^3
χ² / ndf 51.96 / 50
p0 1058 ± 5223
pull
Entries 51
Mean −639.4
Std Dev 673.2


pull1D
Entries 51
Mean 0.001889
Std Dev 1.009


asym_sam_26_dd_rms vs run
χ² / ndf 2618 / 50
p0 3742 ± 3.693
4200
4000
3800
3600
3400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_37_dd_mean vs run
χ² / ndf 56.68 / 50
p0 419 ± 230.8
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −24.8
Std Dev 39.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.03881
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.097e+04 / 50
p0 163.9 ± 0.1632
450
400
350
300
250
200
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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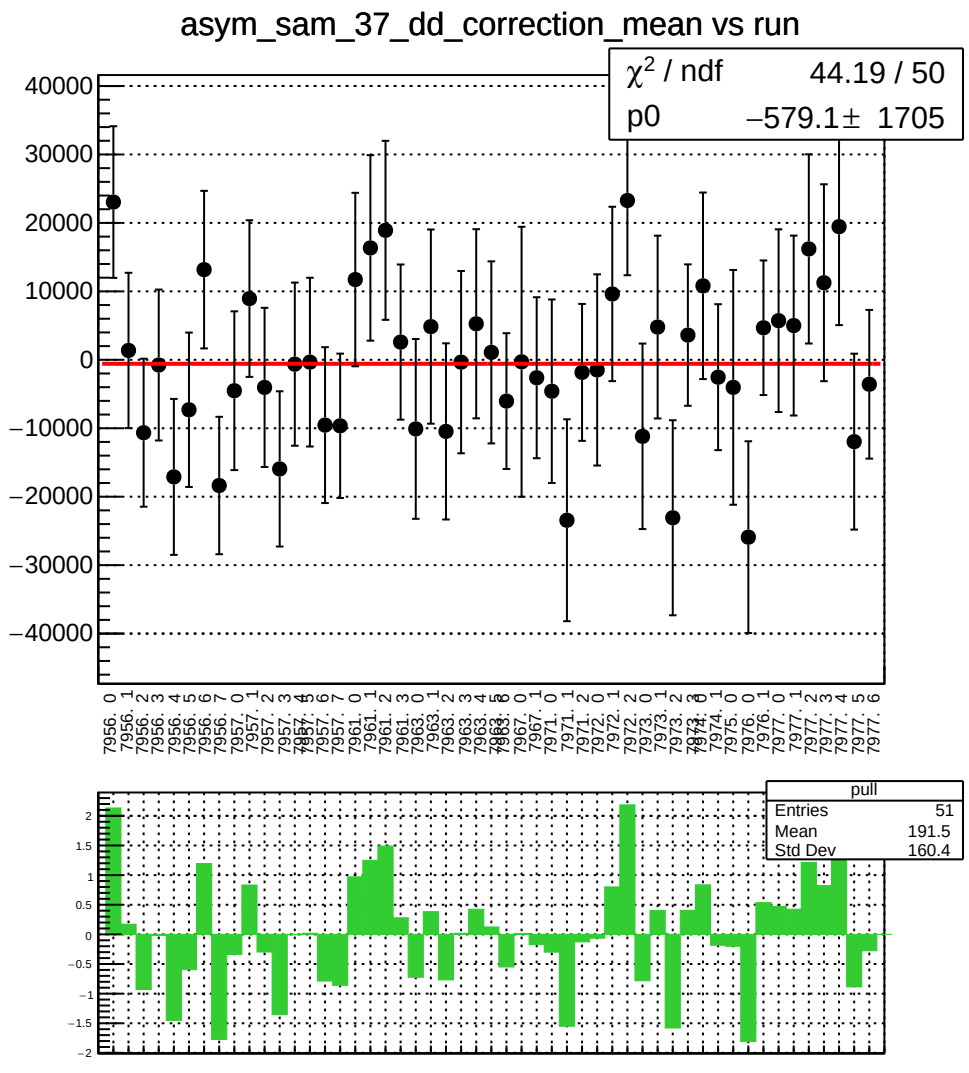
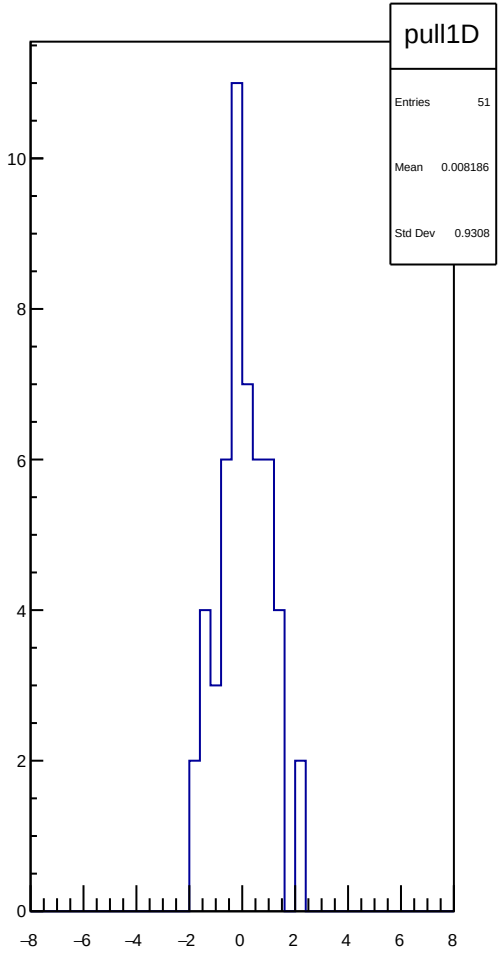
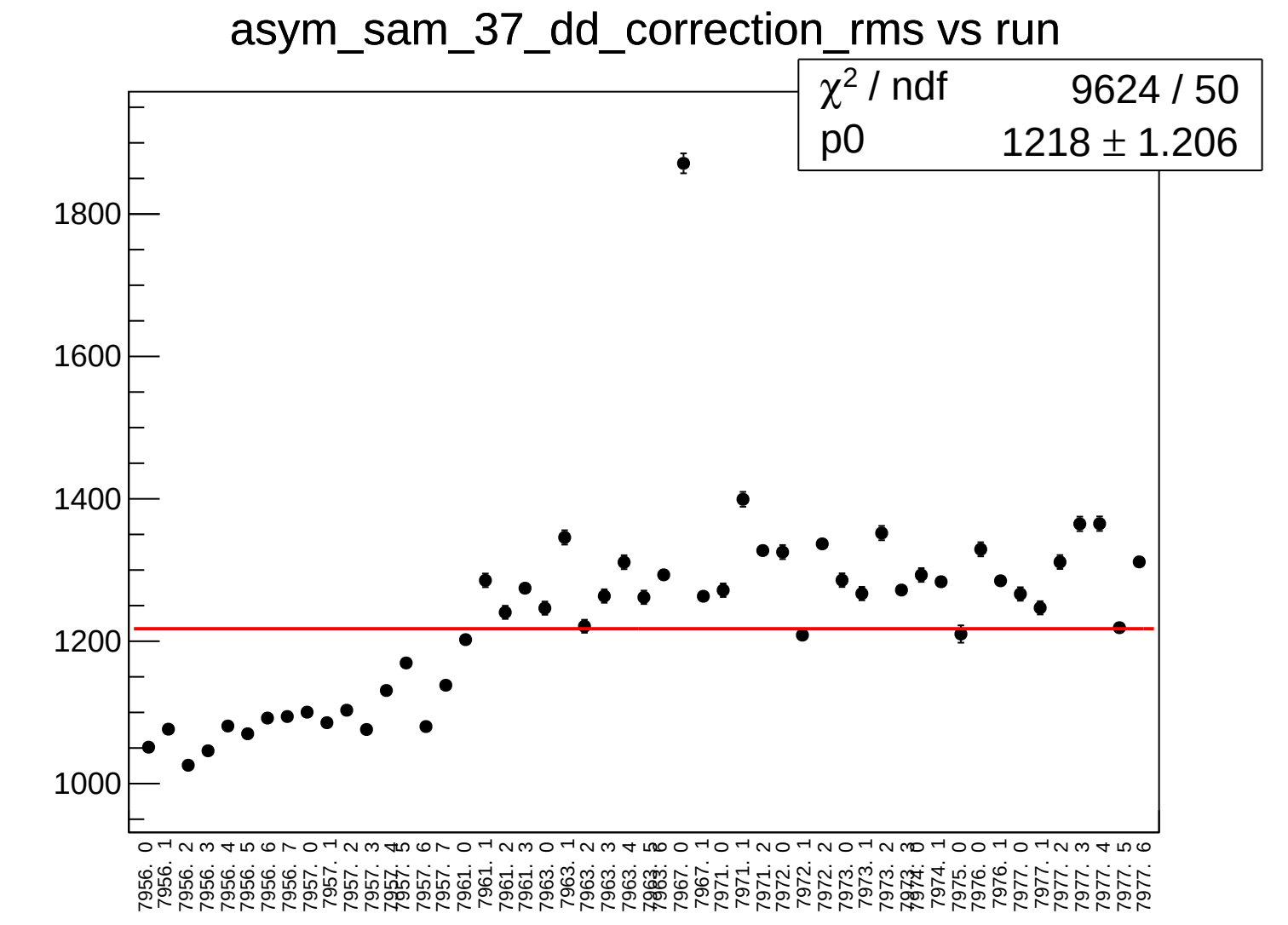
7977. 5
7977. 6


asym_sam_37_dd_correction_mean vs run
χ² / ndf 44.19 / 50
p0 −579.1± 1705
pull
Entries 51
Mean 191.5
Std Dev 160.4


pull1D
Entries 51
Mean 0.008186
Std Dev 0.9308


asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 9624 / 50
p0 1218 ± 1.206
1800
1600
1400
1200
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
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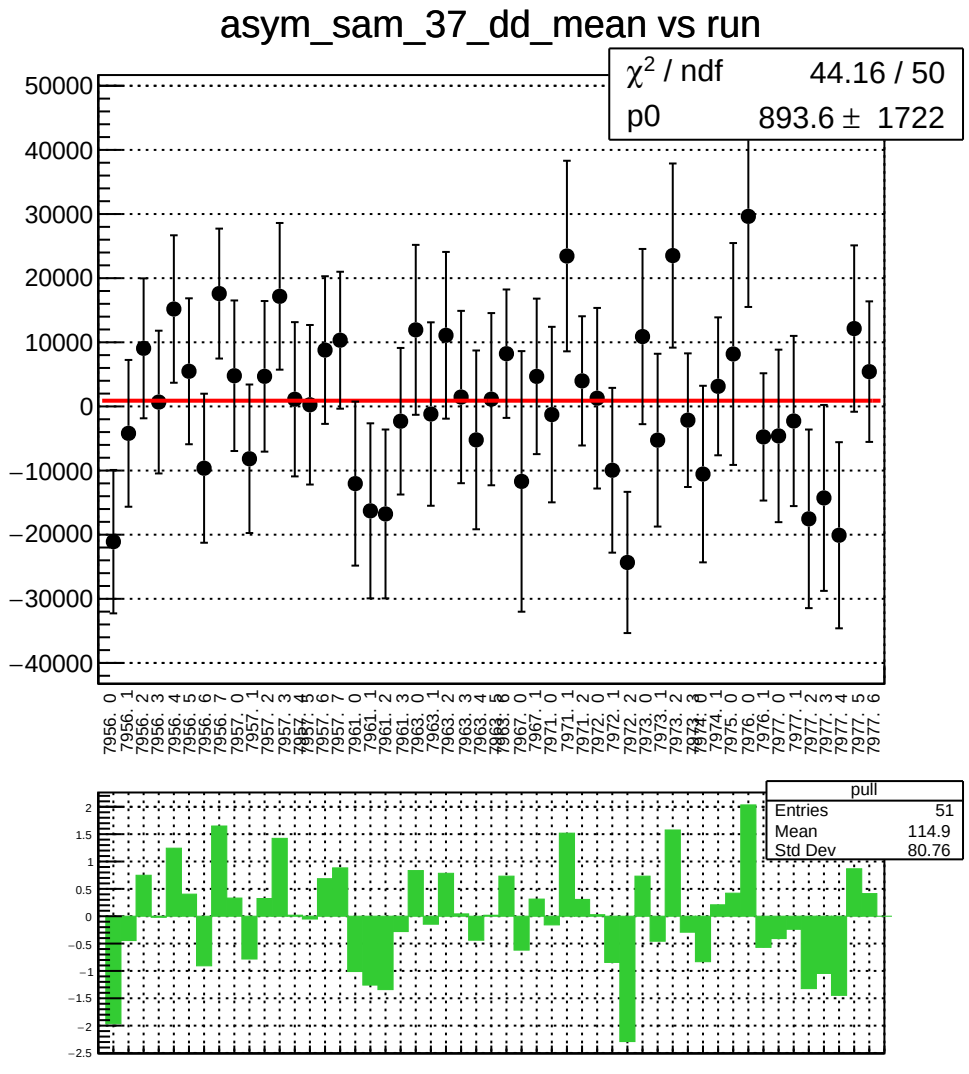
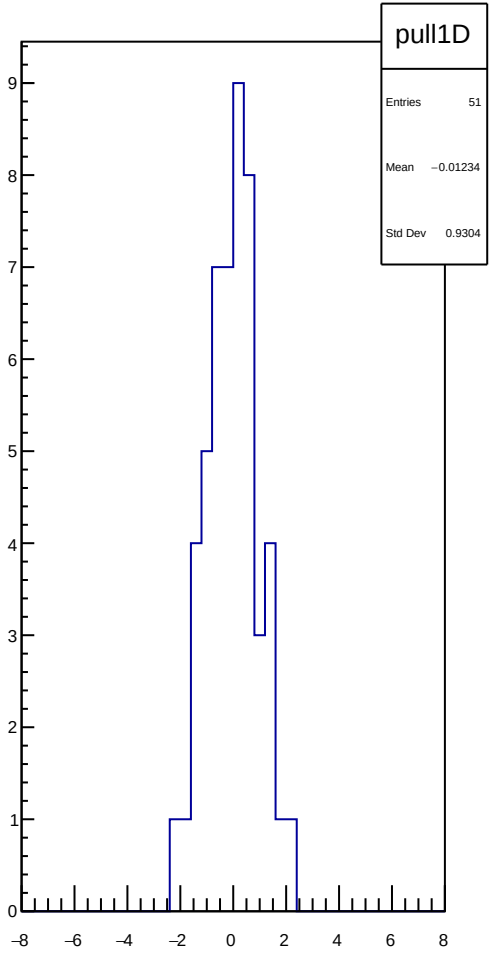
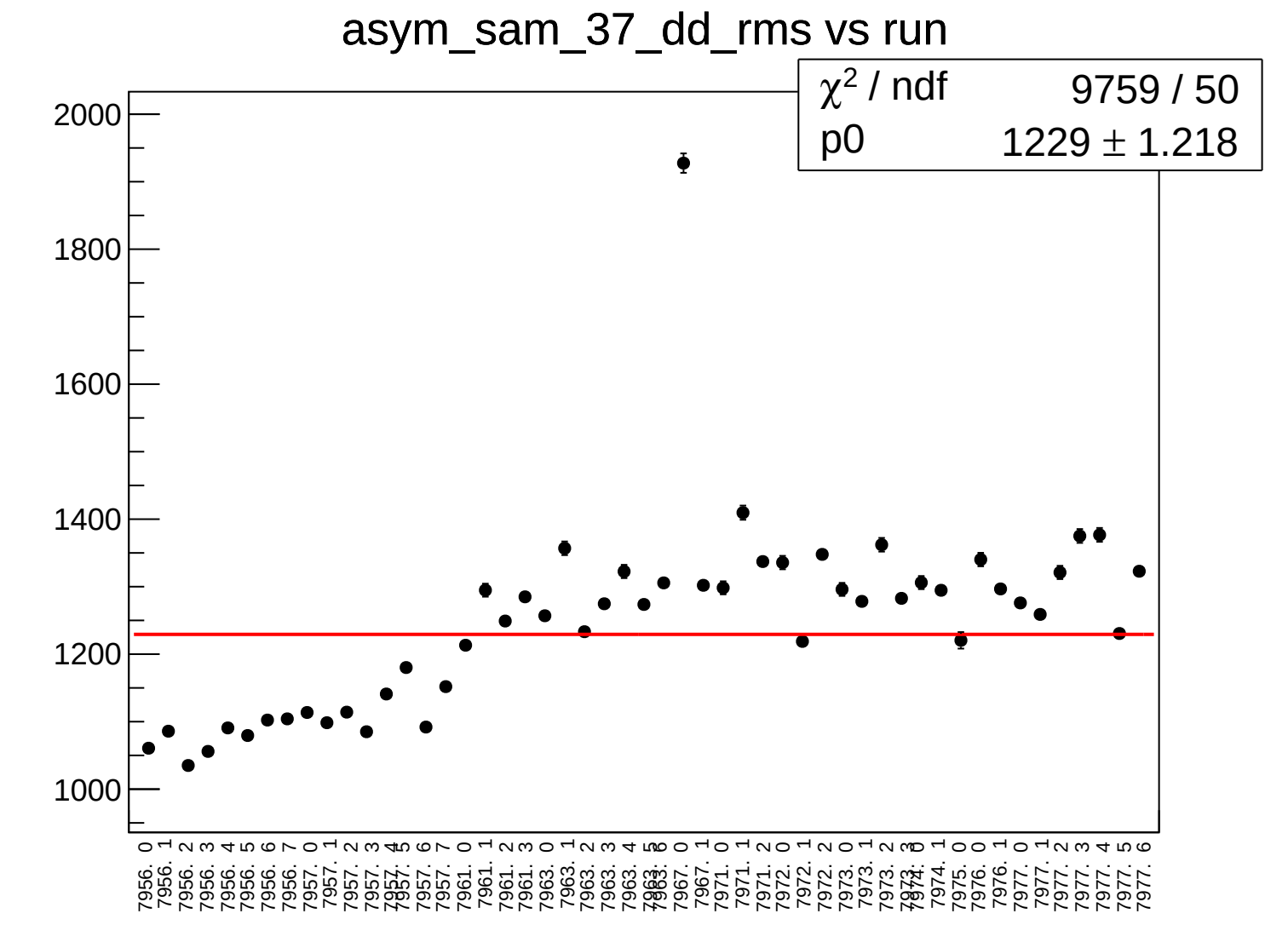
7977. 5
7977. 6


asym_sam_37_dd_mean vs run
χ² / ndf 44.16 / 50
p0 893.6 ± 1722
pull
Entries 51
Mean 114.9
Std Dev 80.76


pull1D
Entries 51
Mean −0.01234
Std Dev 0.9304


asym_sam_37_dd_rms vs run
χ² / ndf 9759 / 50
p0 1229 ± 1.218
2000
1800
1600
1400
1200
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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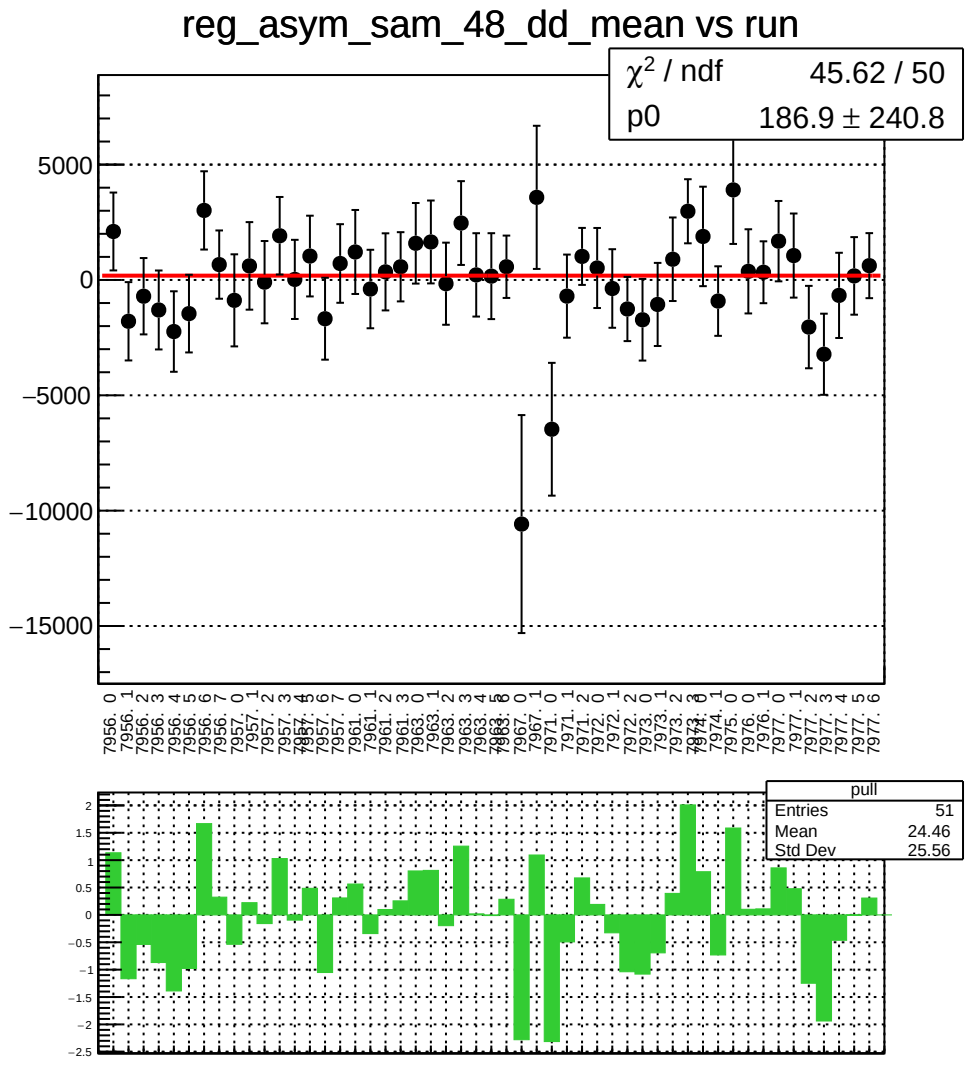
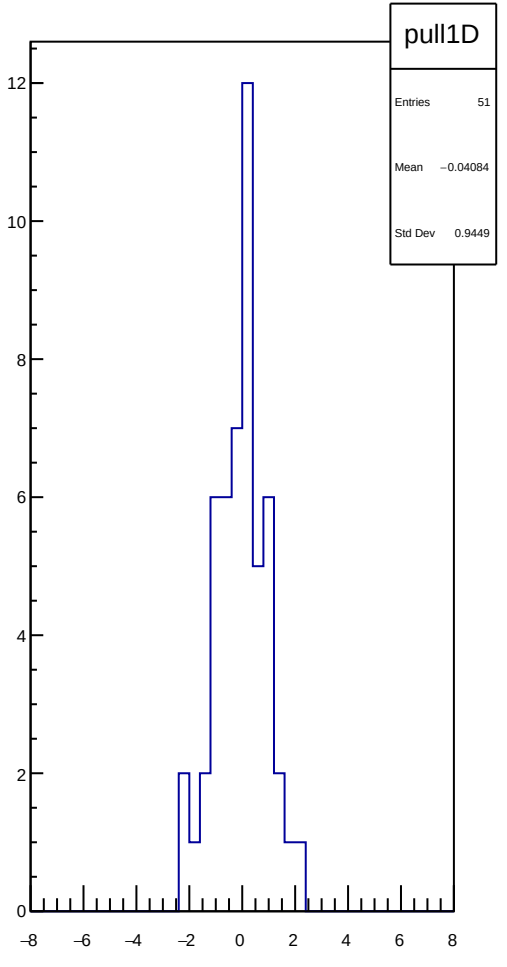
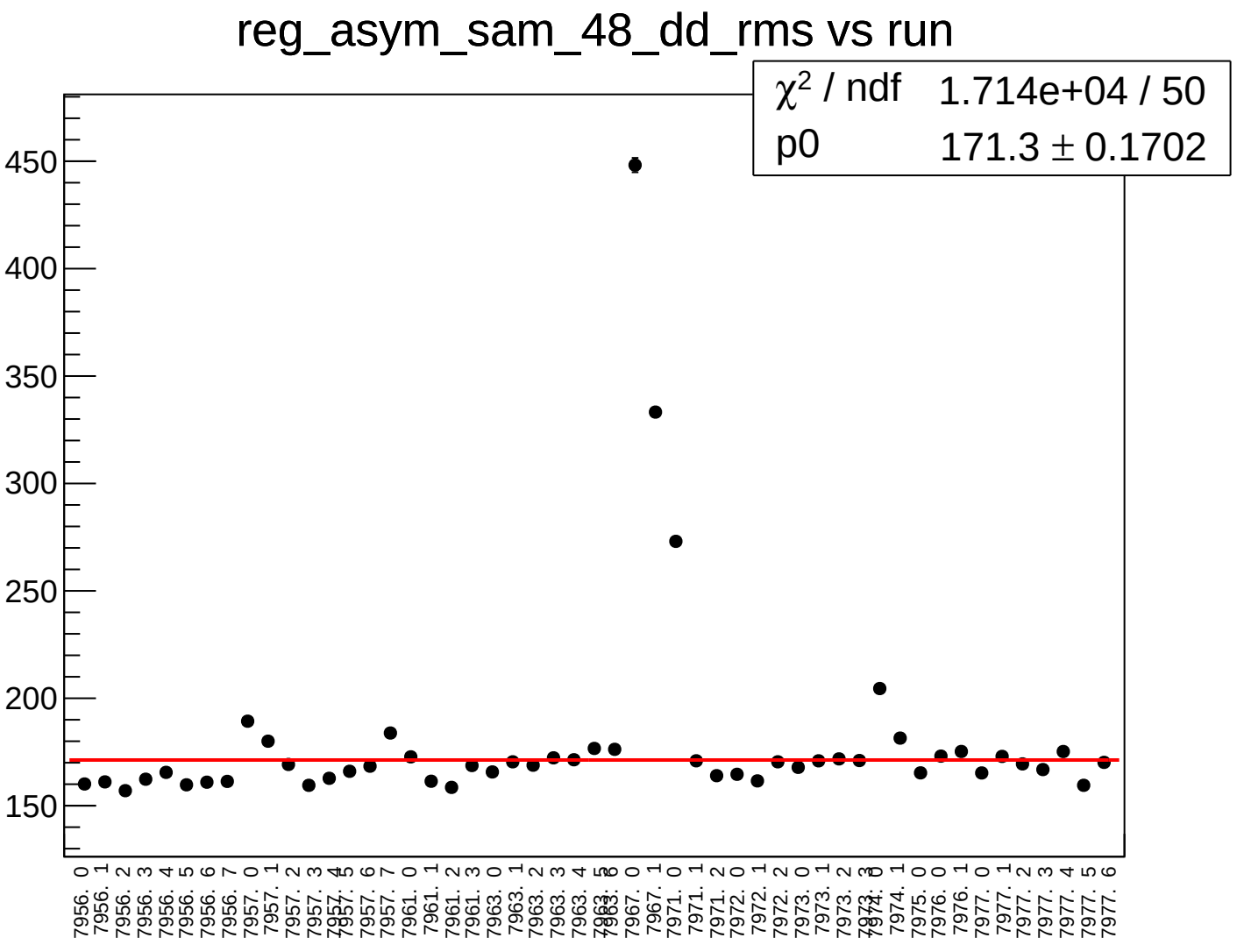
7977. 5
7977. 6


reg_asym_sam_48_dd_mean vs run
χ² / ndf 45.62 / 50
p0 186.9 ± 240.8
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 24.46
Std Dev 25.56
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.04084
Std Dev 0.9449
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.714e+04 / 50
p0 171.3 ± 0.1702
450
400
350
300
250
200
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
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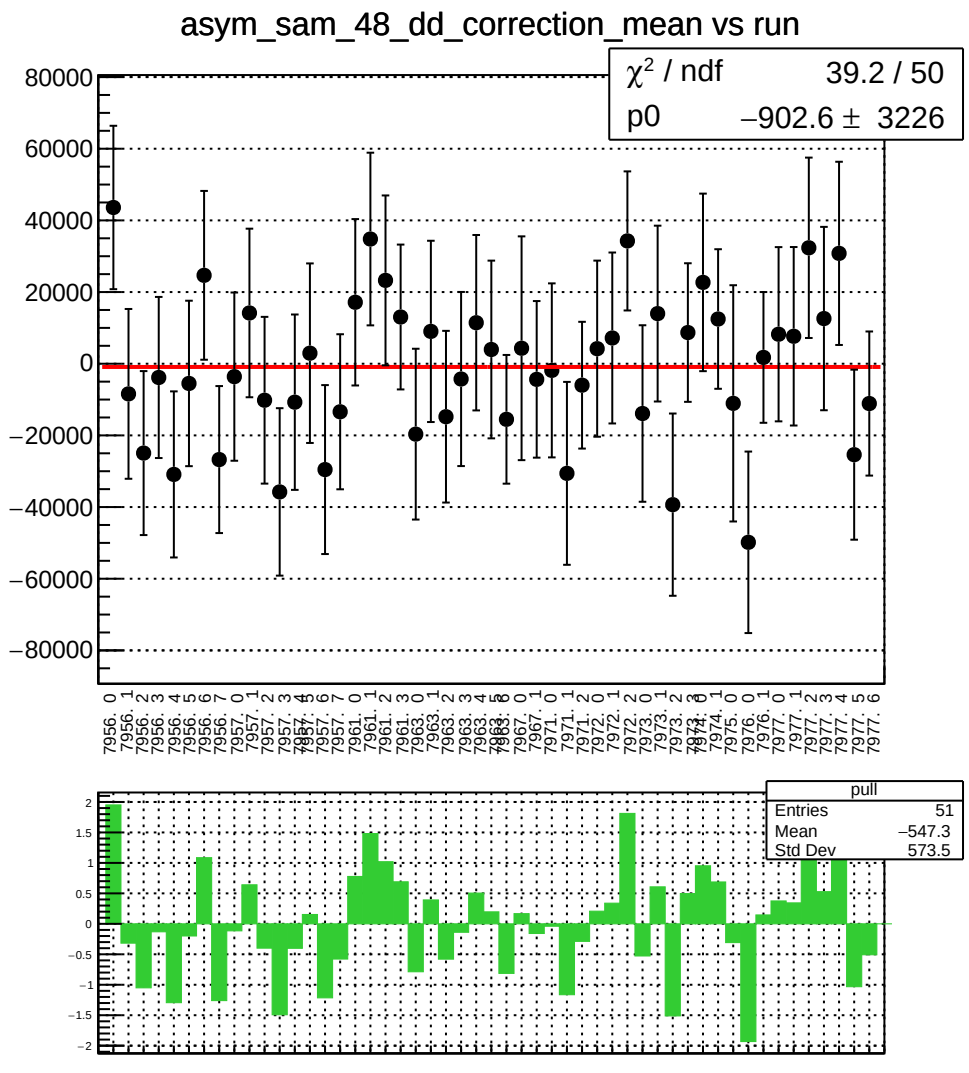
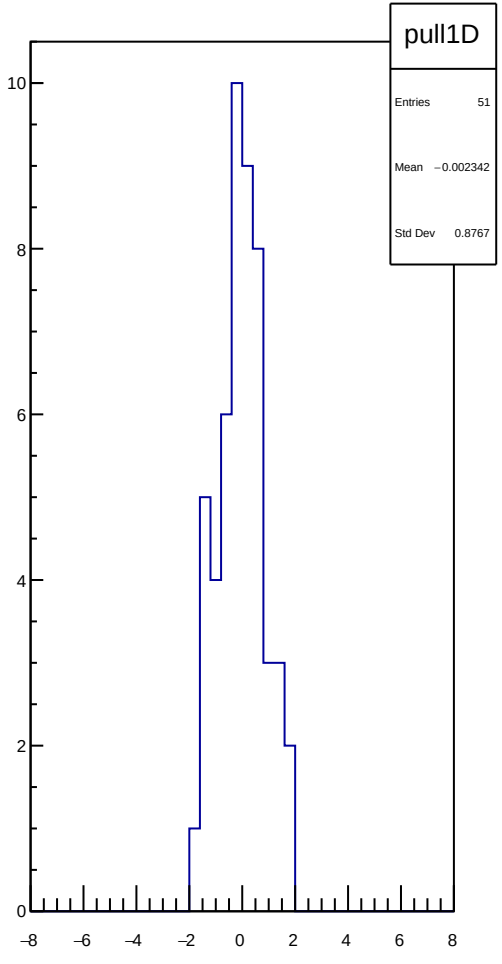
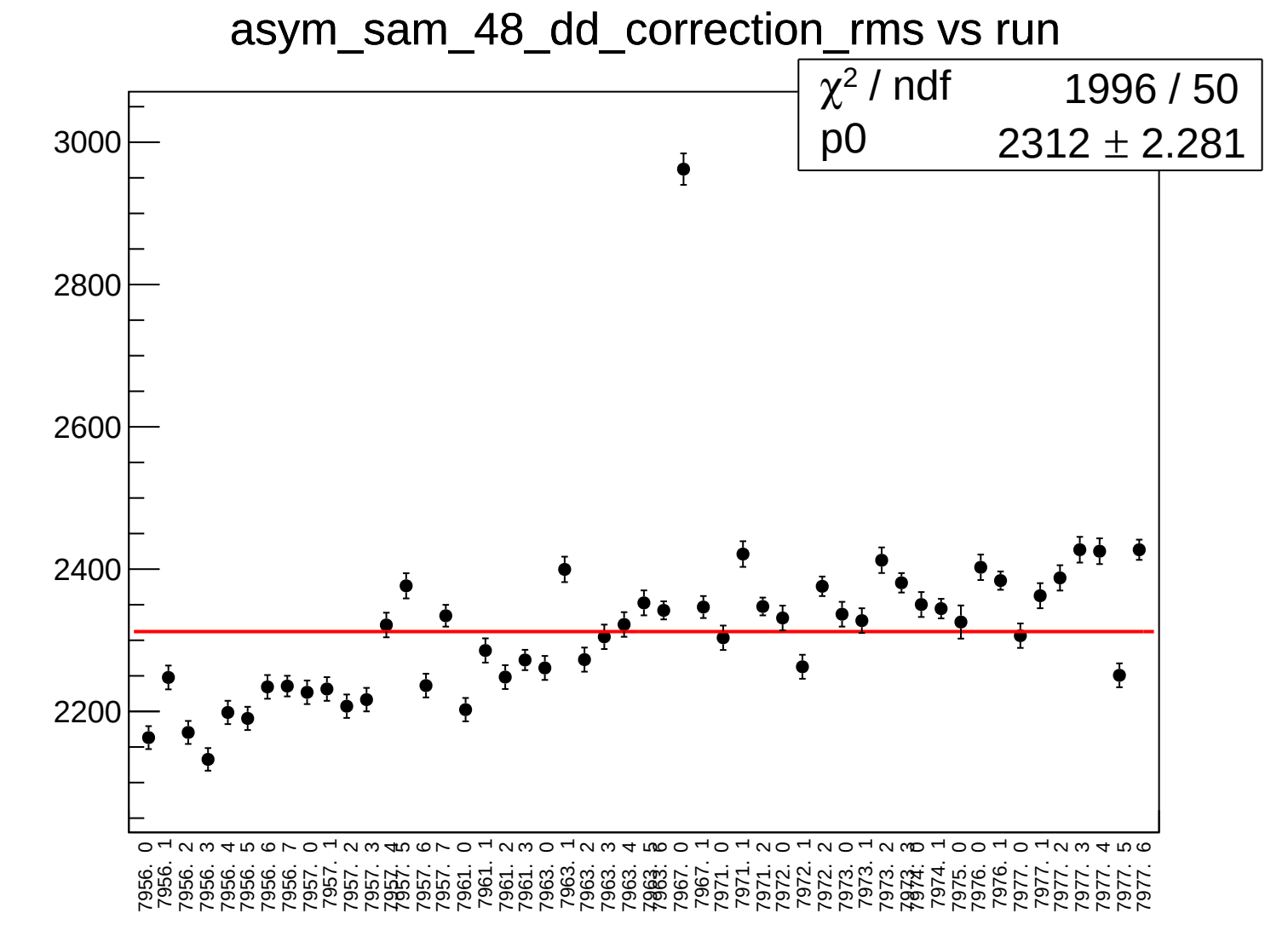
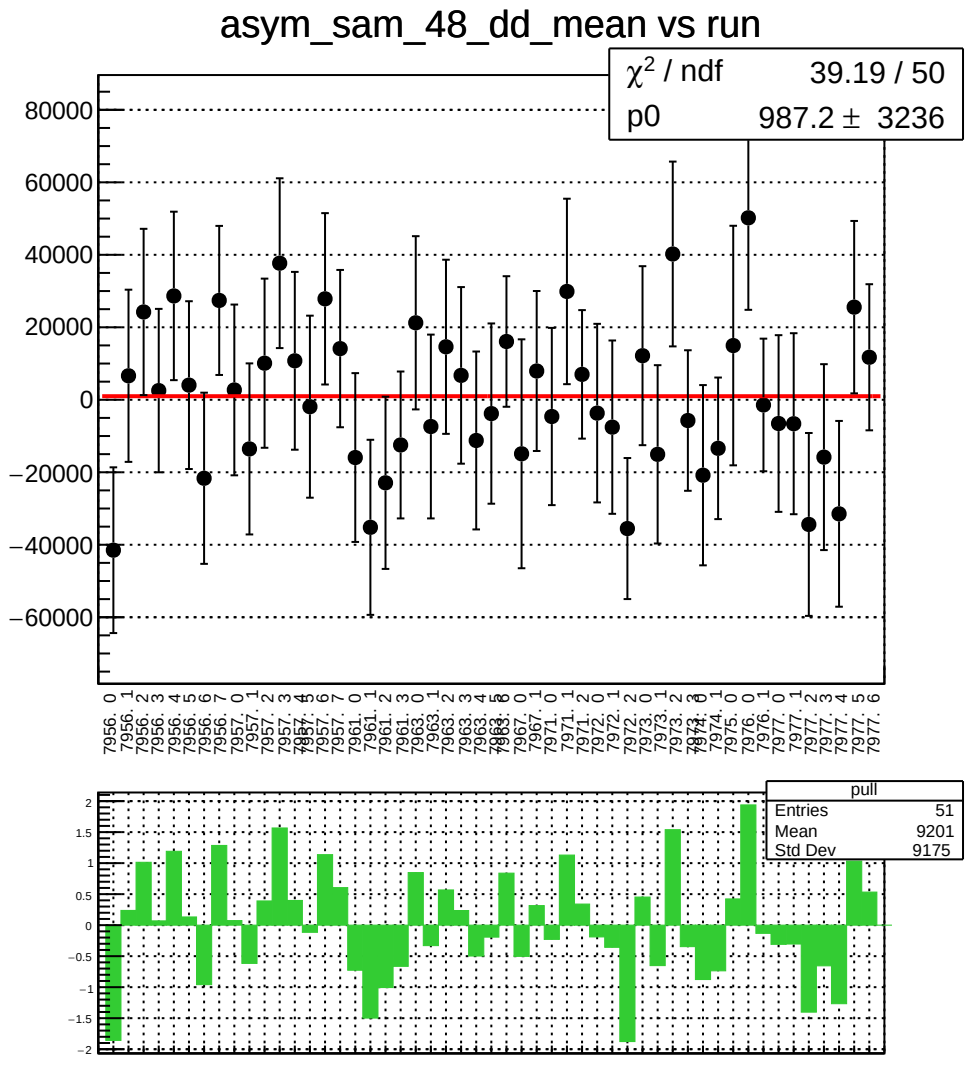
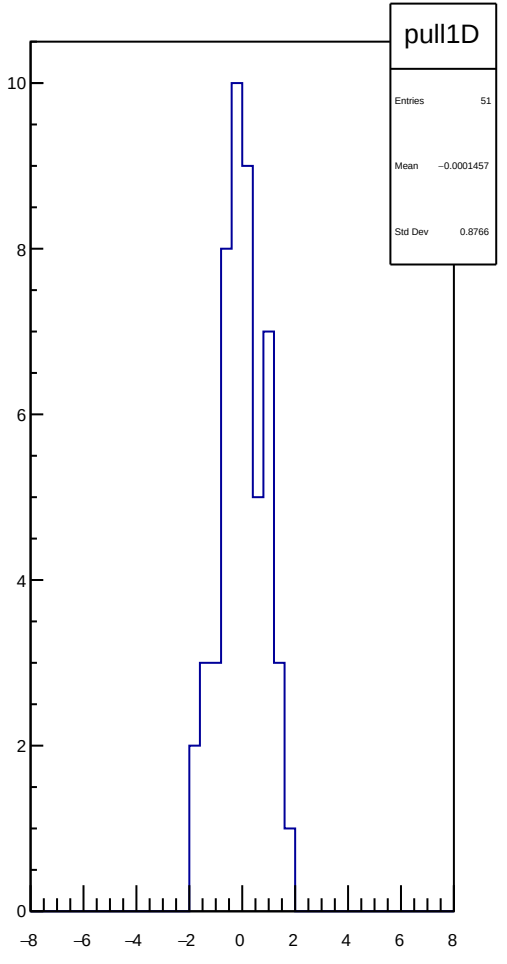
7977. 5
7977. 6

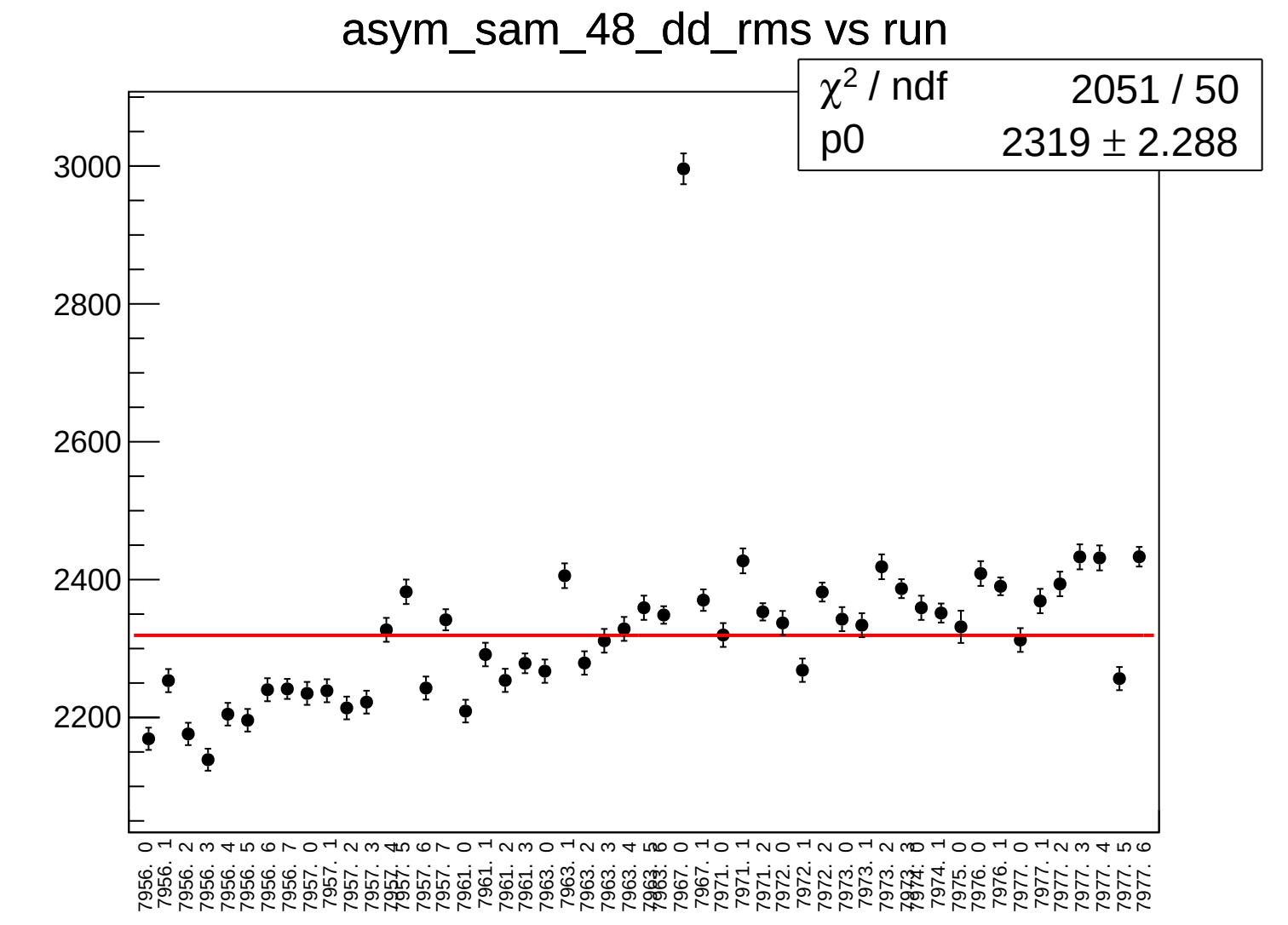

asym_sam_48_dd_correction_mean vs run
χ² / ndf 39.2 / 50
p0 −902.6 ± 3226
pull
Entries 51
Mean −547.3
Std Dev 573.5

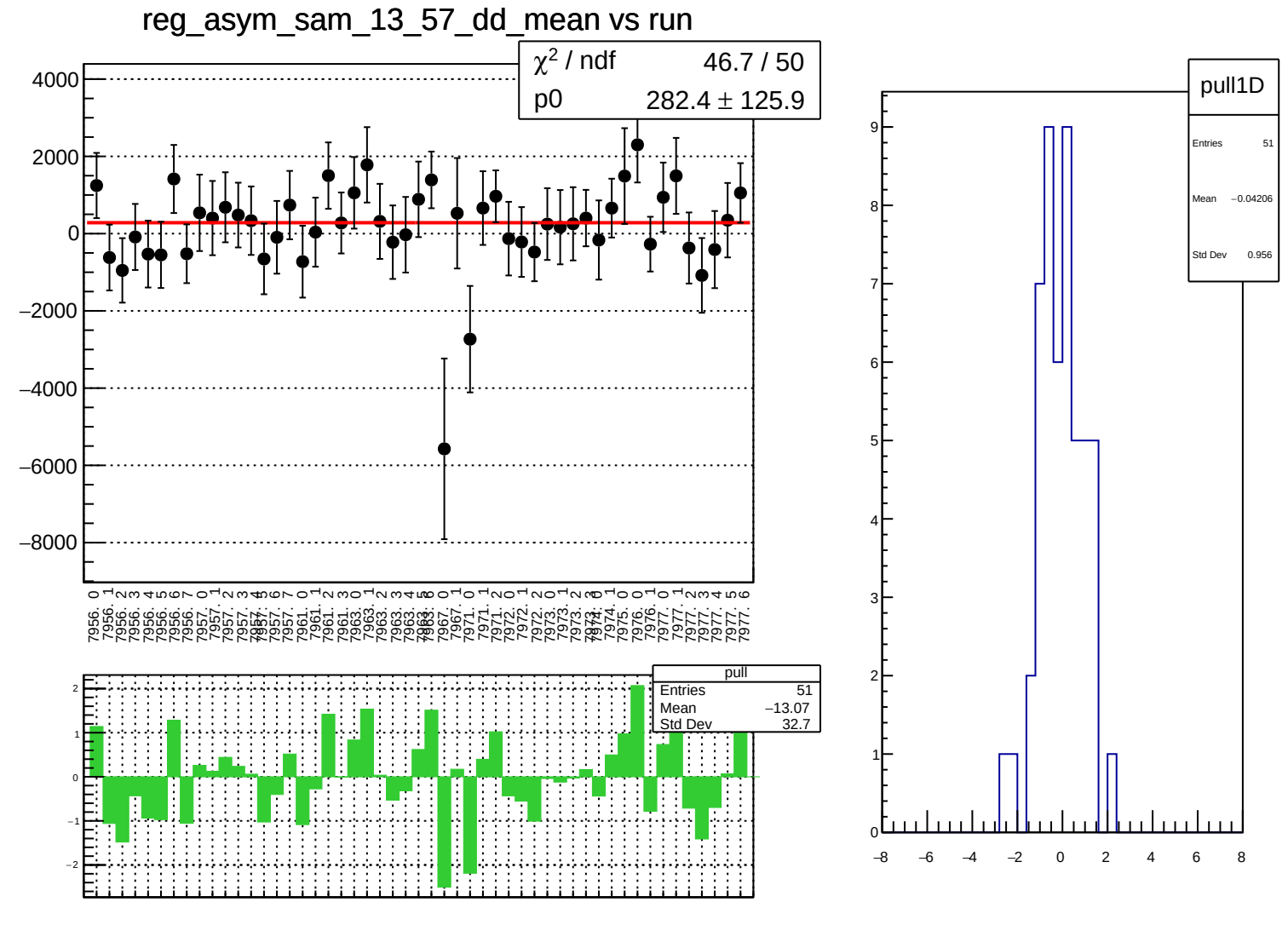

pull1D
Entries 51
Mean −0.002342
Std Dev 0.8767

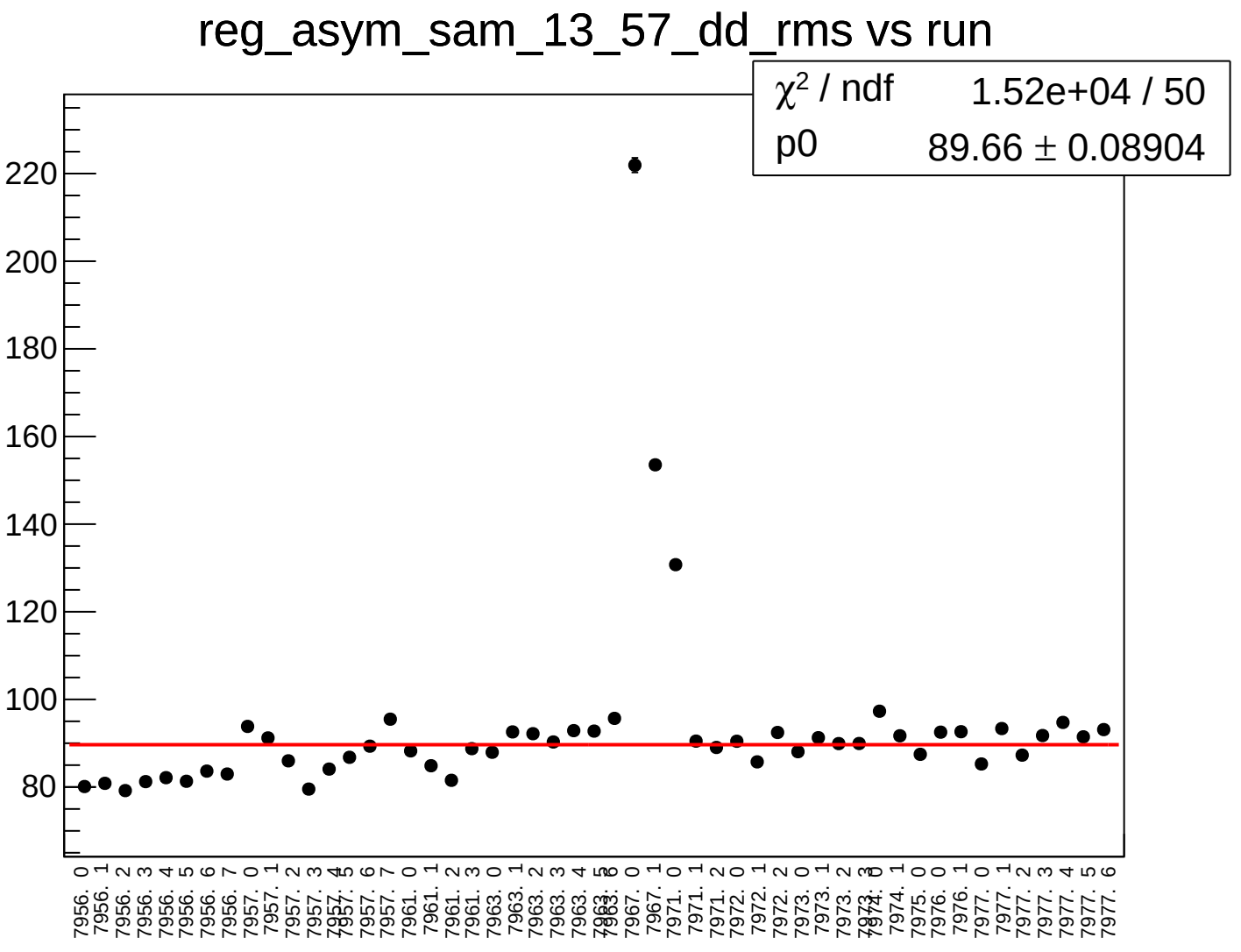

asym_sam_48_dd_correction_rms vs run
χ² / ndf 1996 / 50
p0 2312 ± 2.281
3000
2800
2600
2400
2200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

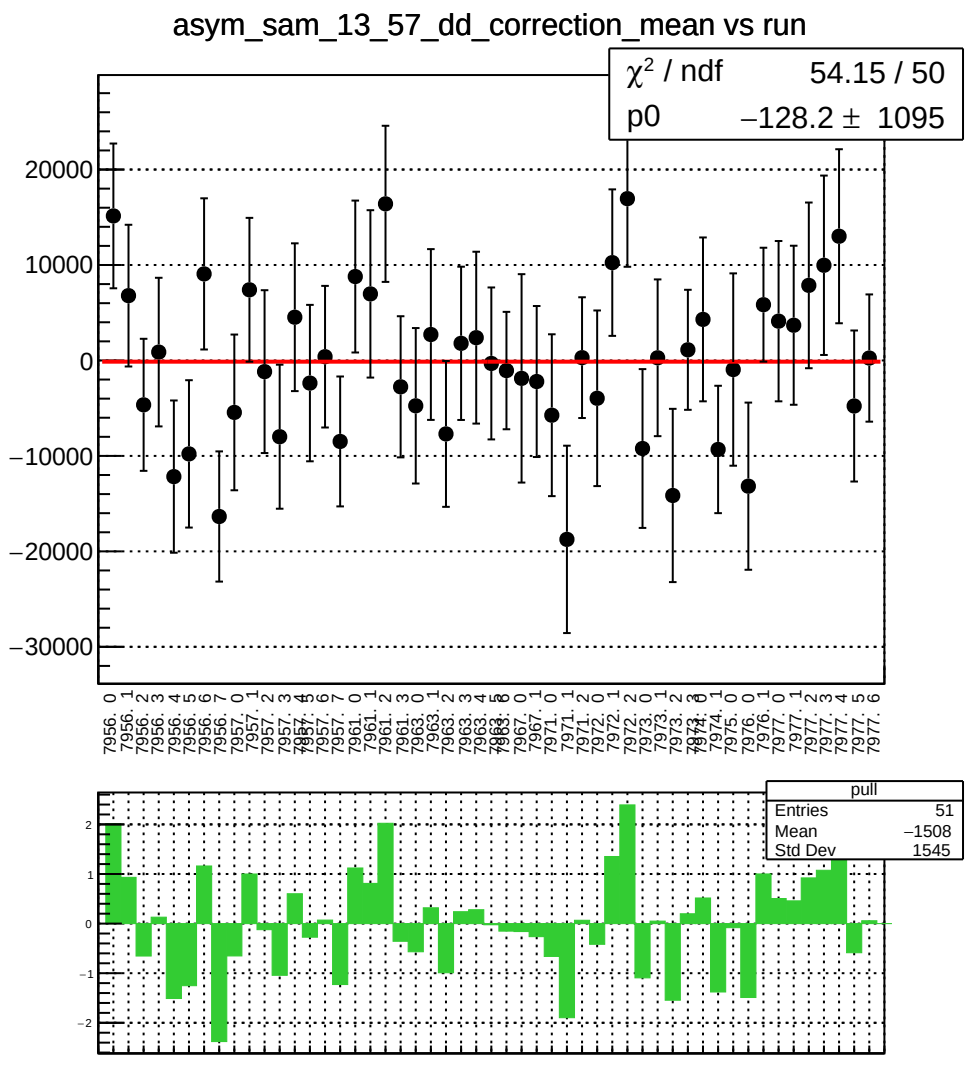

asym_sam_48_dd_mean vs run
χ² / ndf 39.19 / 50
p0 987.2 ± 3236
pull
Entries 51
Mean 9201
Std Dev 9175

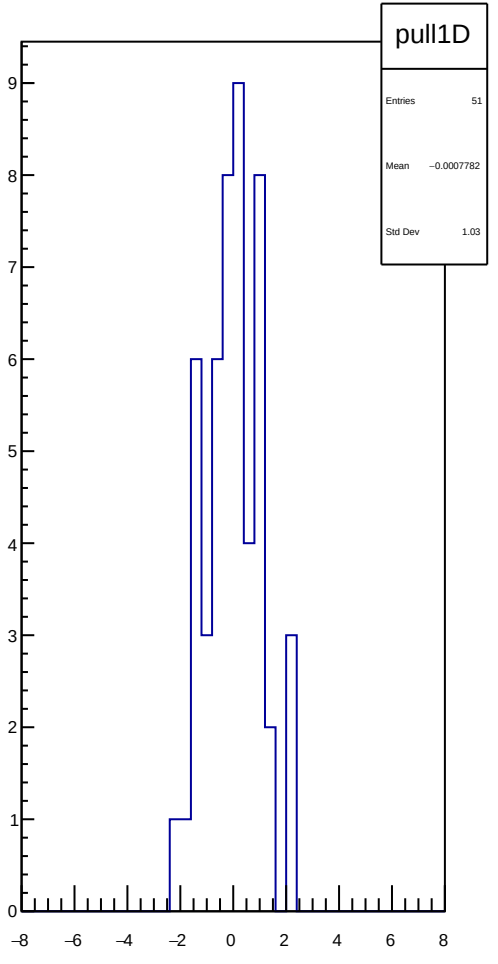

pull1D
Entries 51
Mean −0.0001457
Std Dev 0.8766

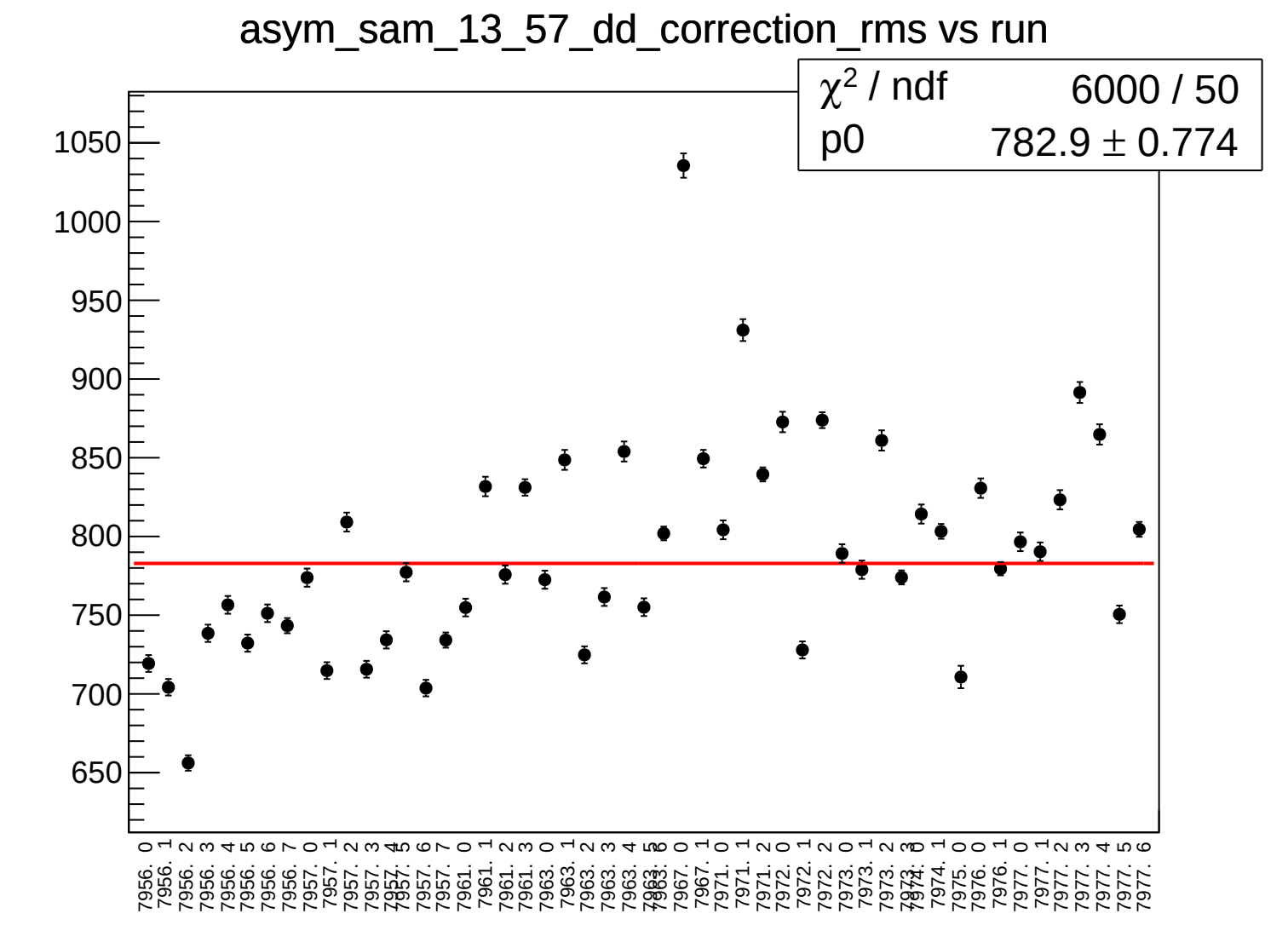

asym_sam_48_dd_rms vs run
χ² / ndf 2051 / 50
p0 2319 ± 2.288
3000
2800
2600
2400
2200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

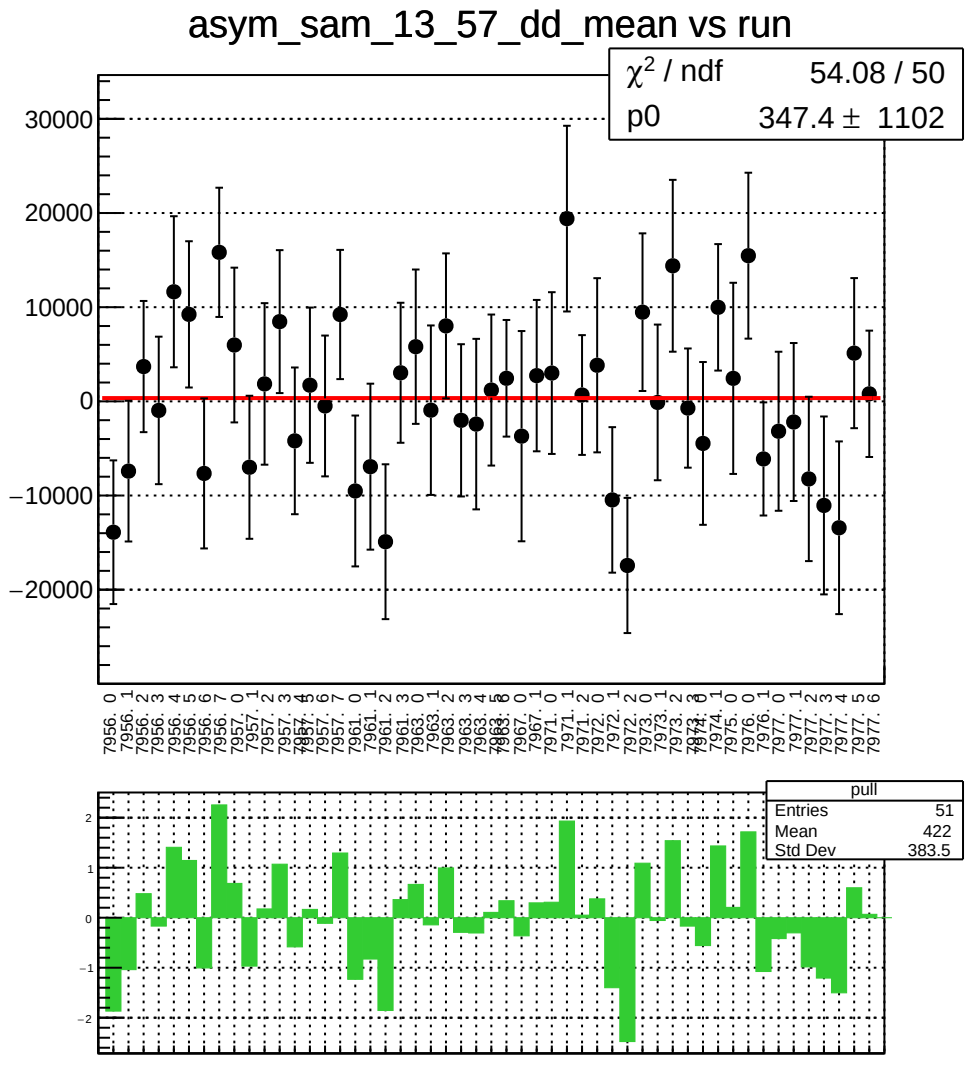

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 46.7 / 50
p0 282.4 ± 125.9
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean −13.07
Std Dev 32.7
pull1D
Entries 51
Mean −0.04206
Std Dev 0.956

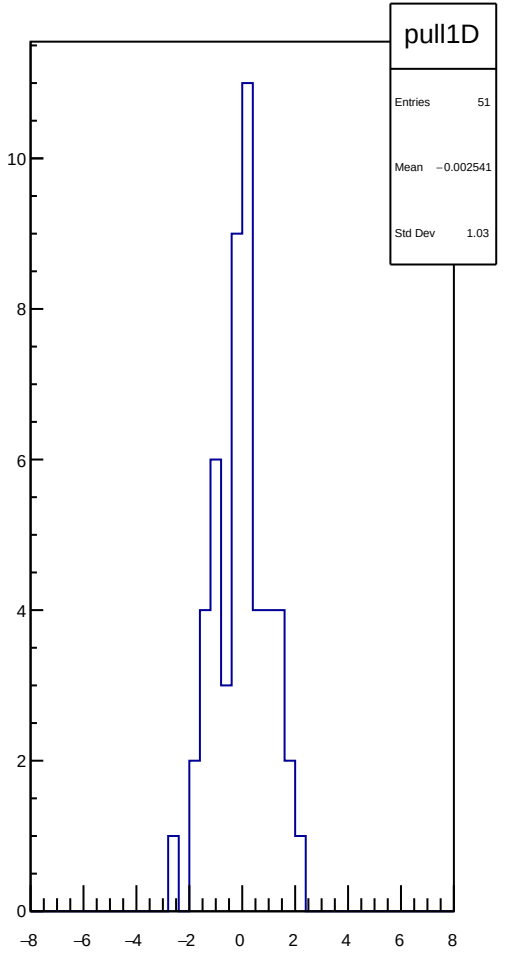

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.52e+04 / 50
p0 89.66 ± 0.08904
220
200
180
160
140
120
100
80
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

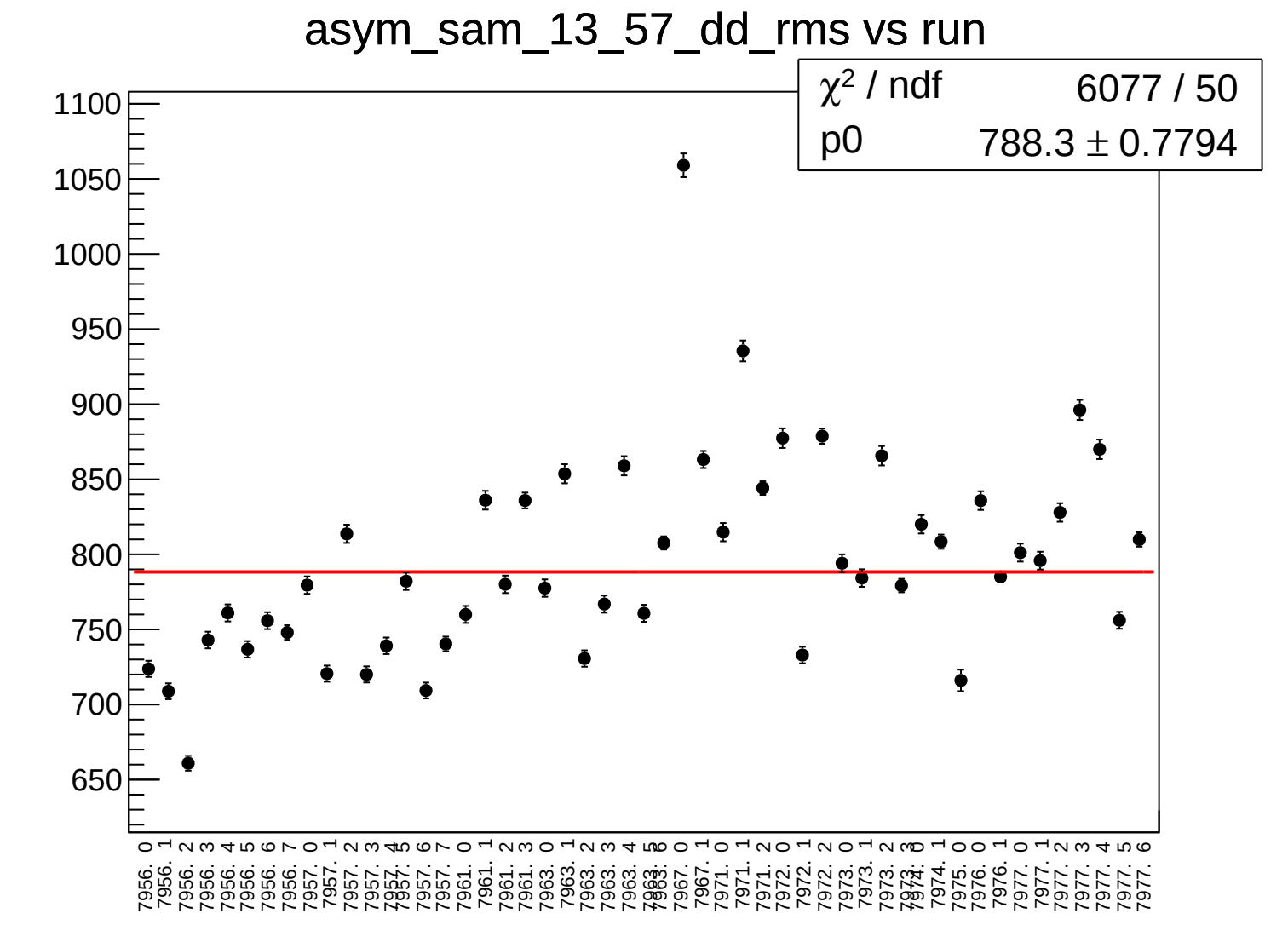

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 54.15 / 50
p0 −128.2 ± 1095
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −1508
Std Dev 1545
2
1
0
−1
−2

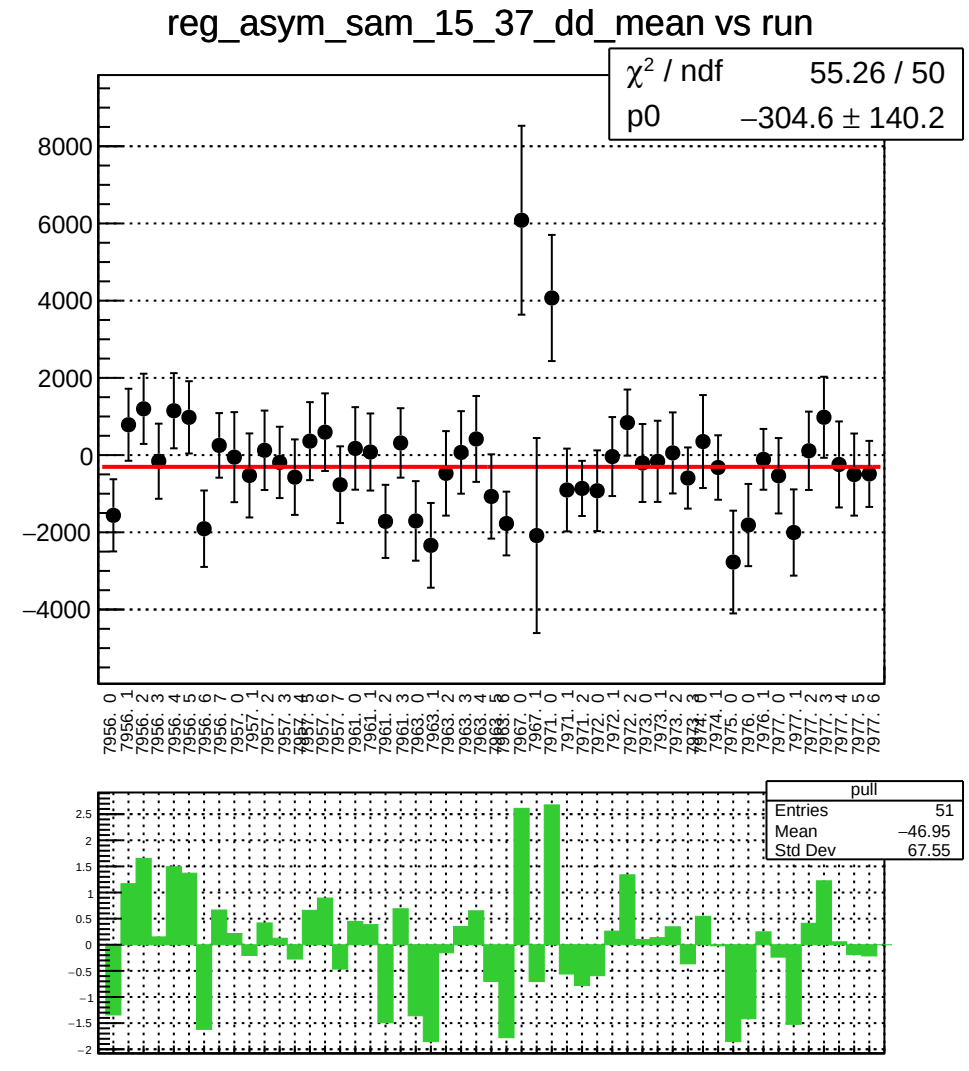

pull1D
Entries 51
Mean −0.0007782
Std Dev 1.03
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

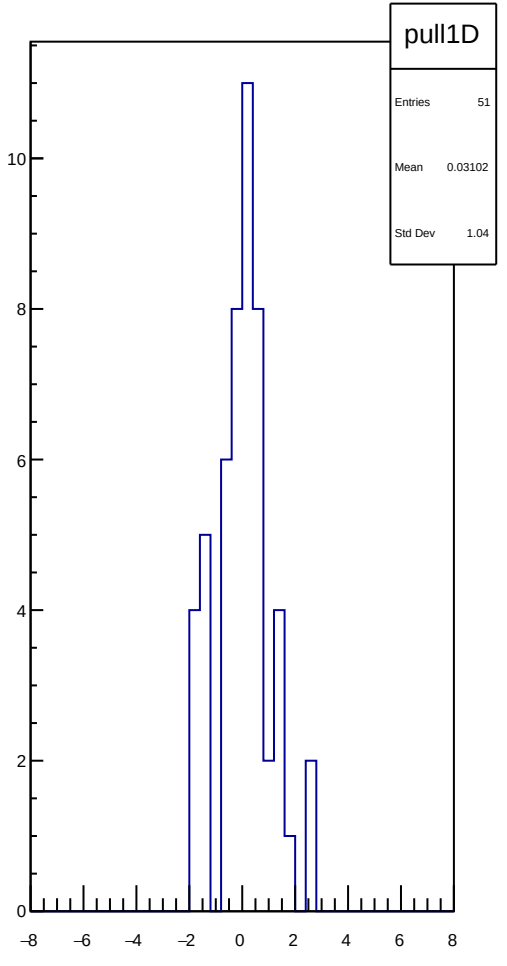

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 6000 / 50
p0 782.9 ± 0.774
1050
1000
950
900
850
800
750
700
650
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

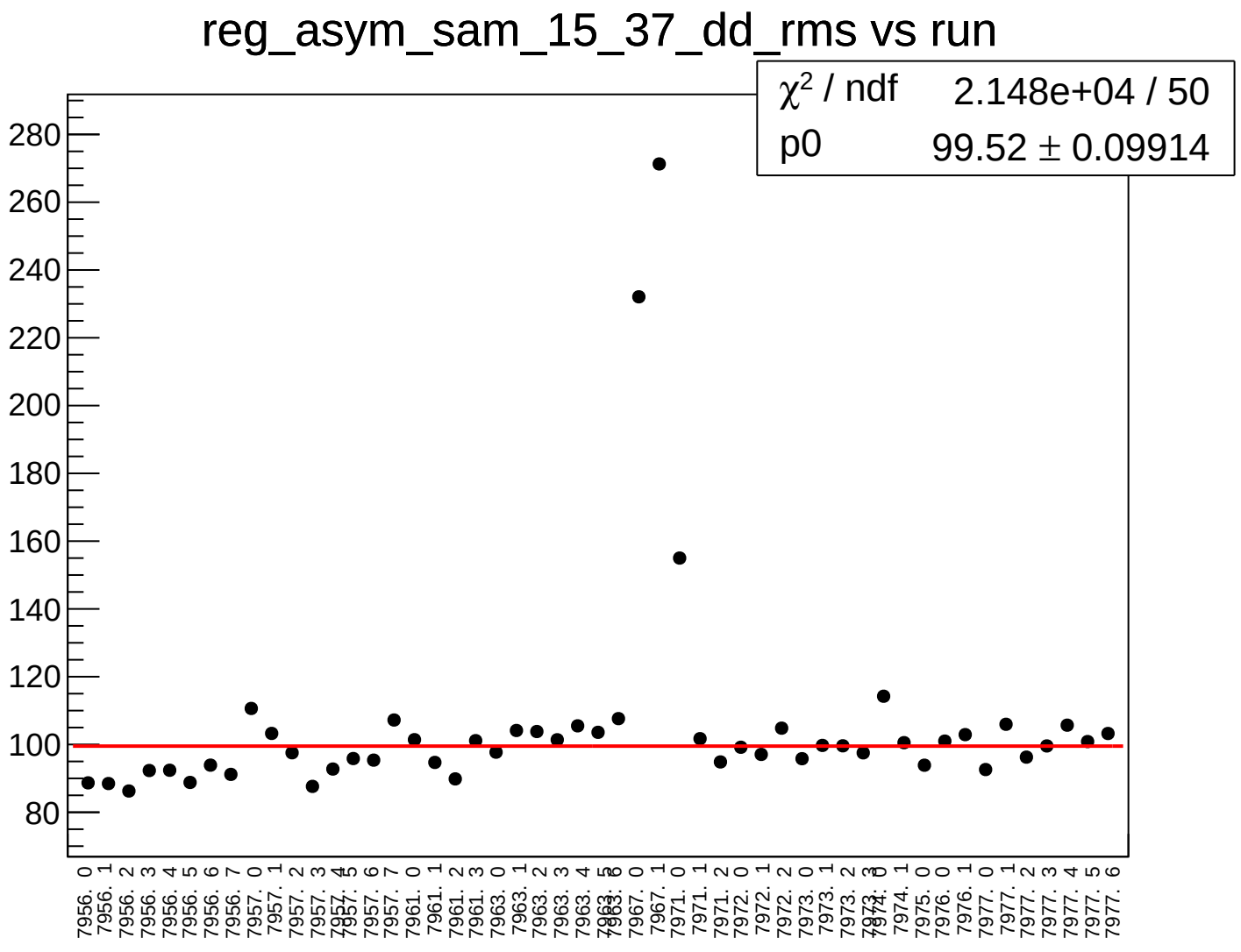

asym_sam_13_57_dd_mean vs run
χ² / ndf 54.08 / 50
p0 347.4 ± 1102
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 422
Std Dev 383.5
2
1
0
−1
−2

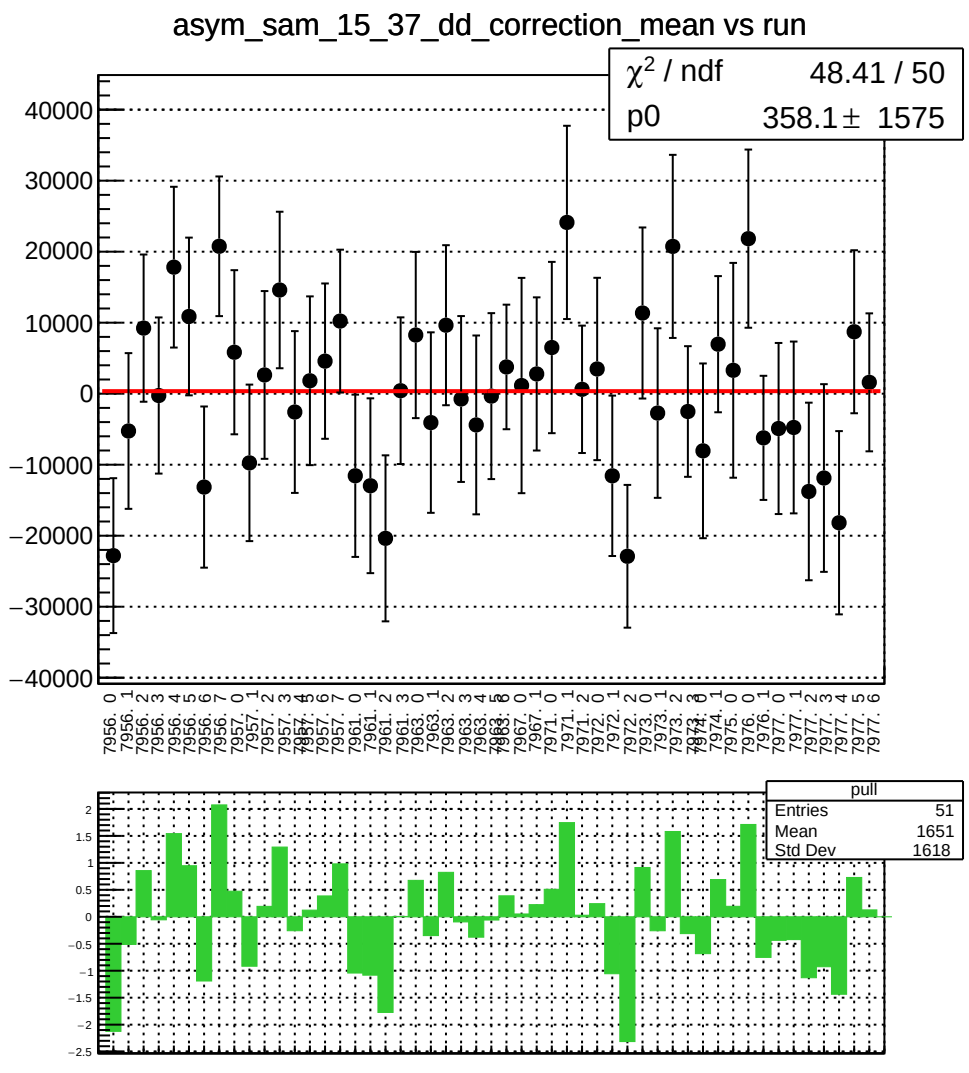

pull1D
Entries 51
Mean −0.002541
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

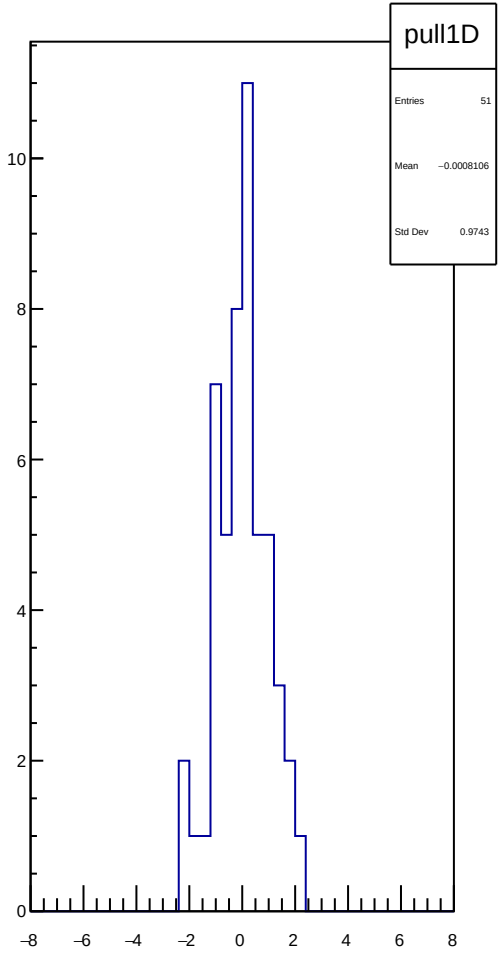

asym_sam_13_57_dd_rms vs run
χ² / ndf 6077 / 50
p0 788.3 ± 0.7794
1100
1050
1000
950
900
850
800
750
700
650
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

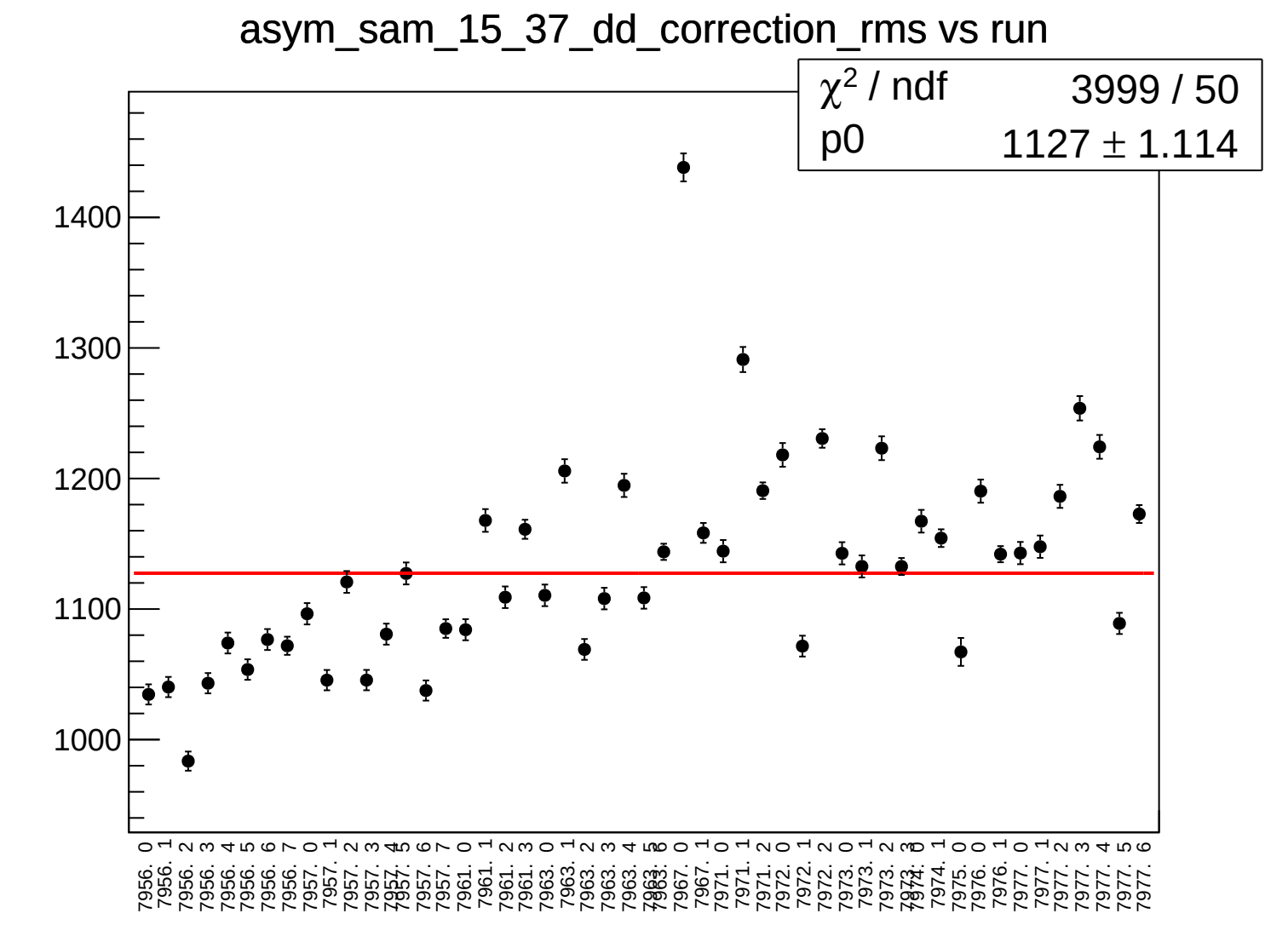

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 55.26 / 50
p0 −304.6 ± 140.2
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 51
Mean −46.95
Std Dev 67.55
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean 0.03102
Std Dev 1.04
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.148e+04 / 50
p0 99.52 ± 0.09914
280
260
240
220
200
180
160
140
120
100
80
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 48.41 / 50
p0 358.1 ± 1575
pull
Entries 51
Mean 1651
Std Dev 1618


pull1D
Entries 51
Mean −0.0008106
Std Dev 0.9743


asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3999 / 50
p0 1127 ± 1.114
1400
1300
1200
1100
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
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7972. 2
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7973. 1
7973. 2
7974. 1
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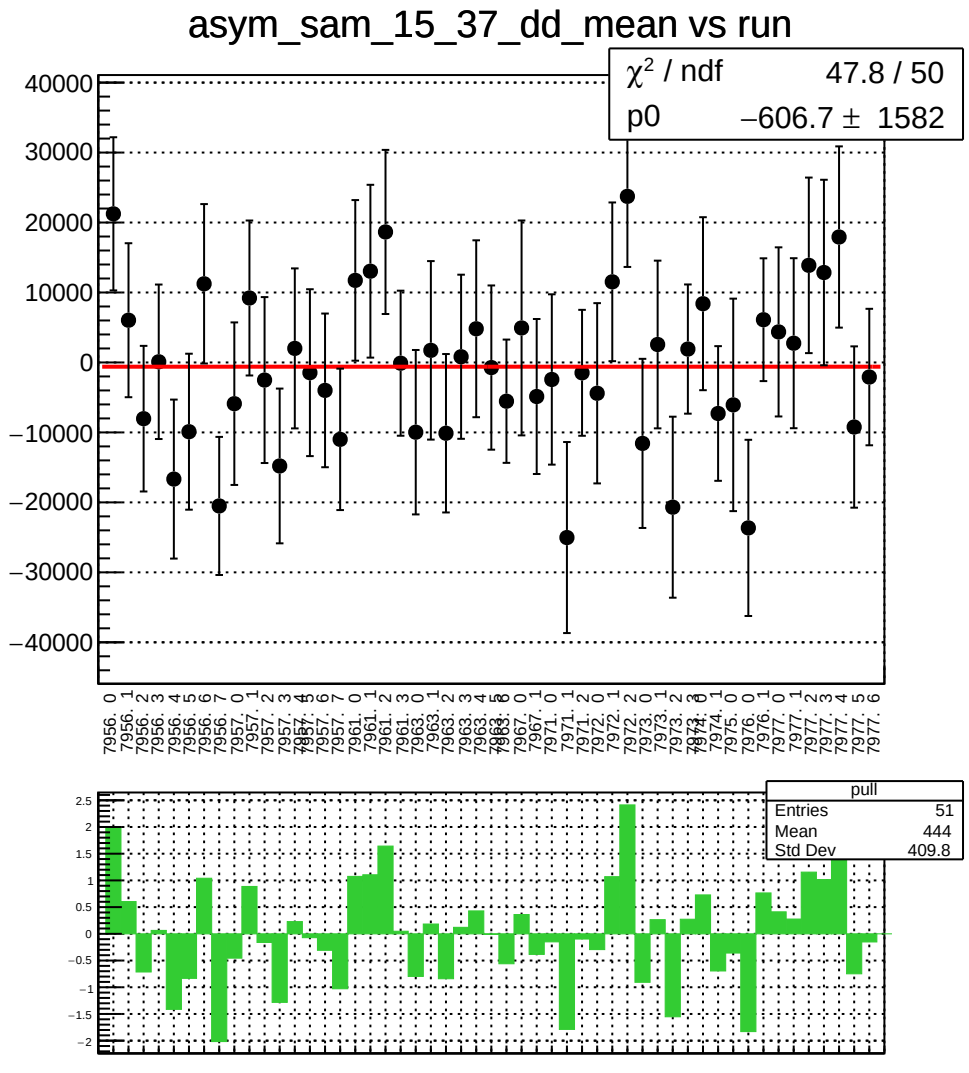
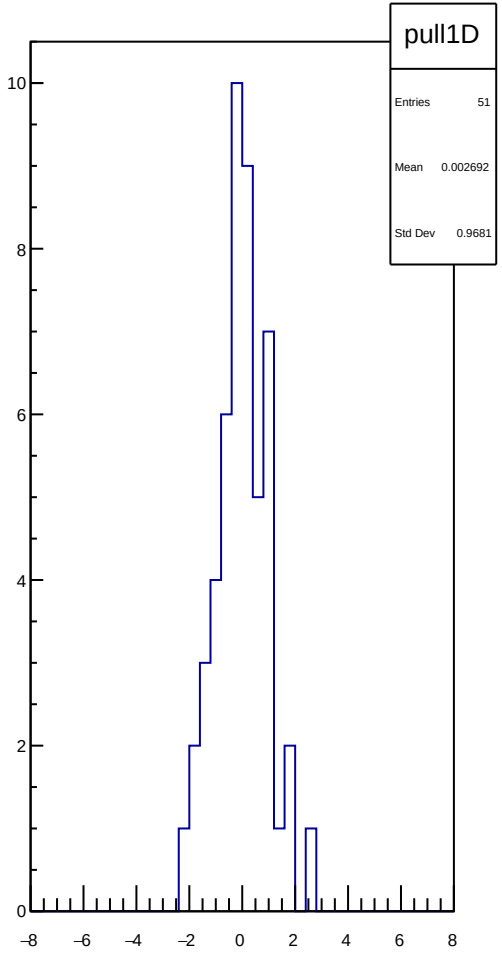
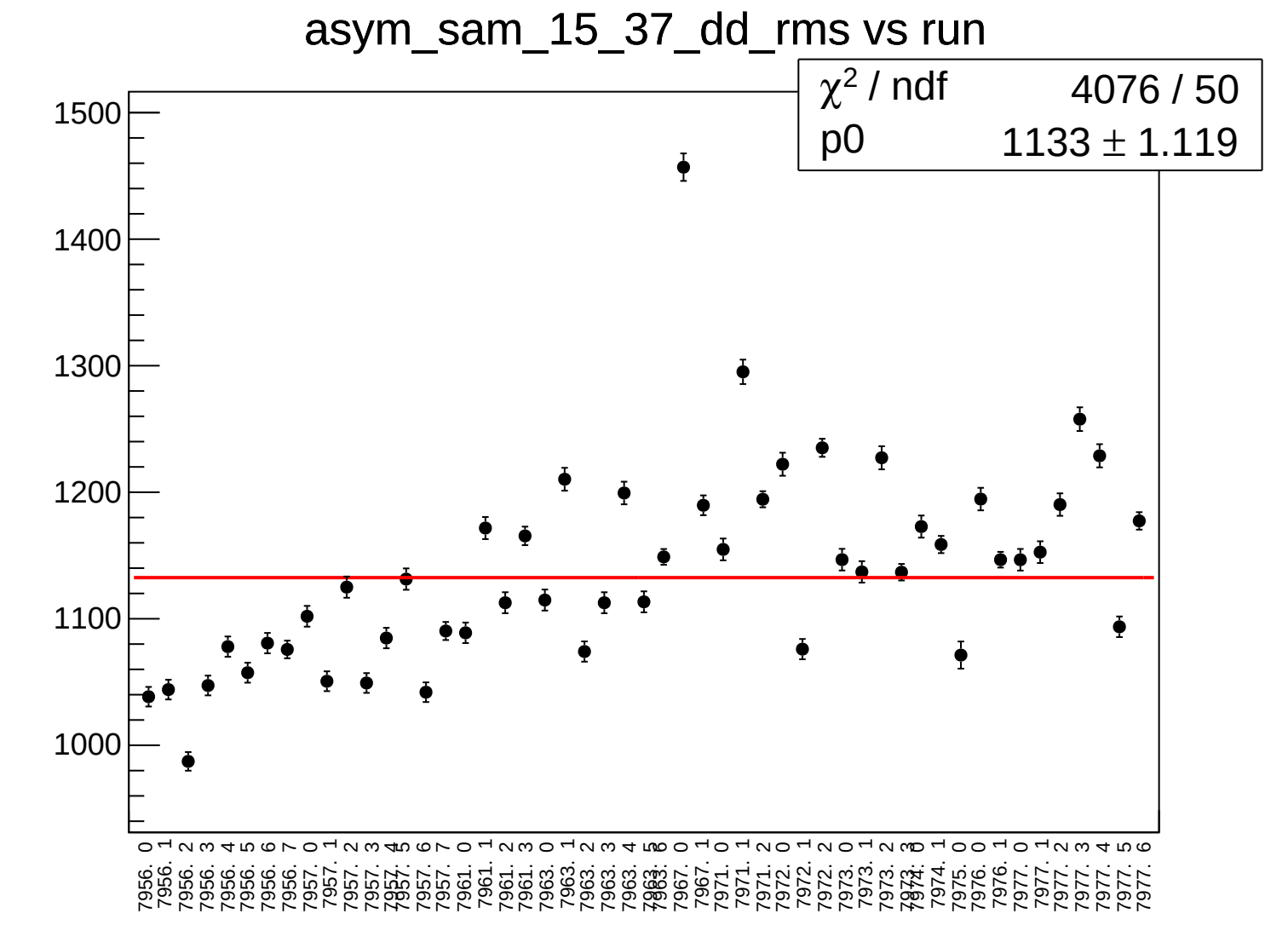
7977. 5
7977. 6


asym_sam_15_37_dd_mean vs run
χ² / ndf 47.8 / 50
p0 −606.7 ± 1582
pull
Entries 51
Mean 444
Std Dev 409.8


pull1D
Entries 51
Mean 0.002692
Std Dev 0.9681


asym_sam_15_37_dd_rms vs run
χ² / ndf 4076 / 50
p0 1133 ± 1.119
1500
1400
1300
1200
1100
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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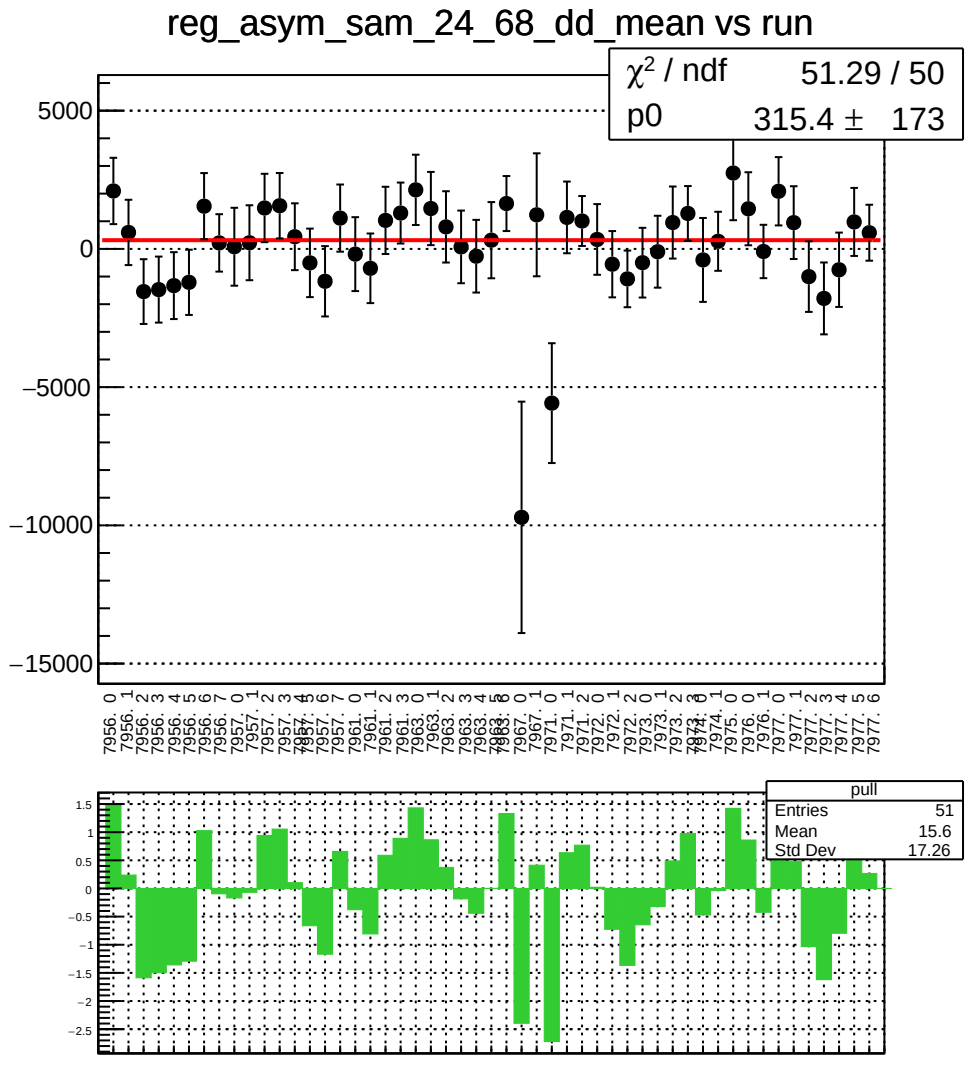
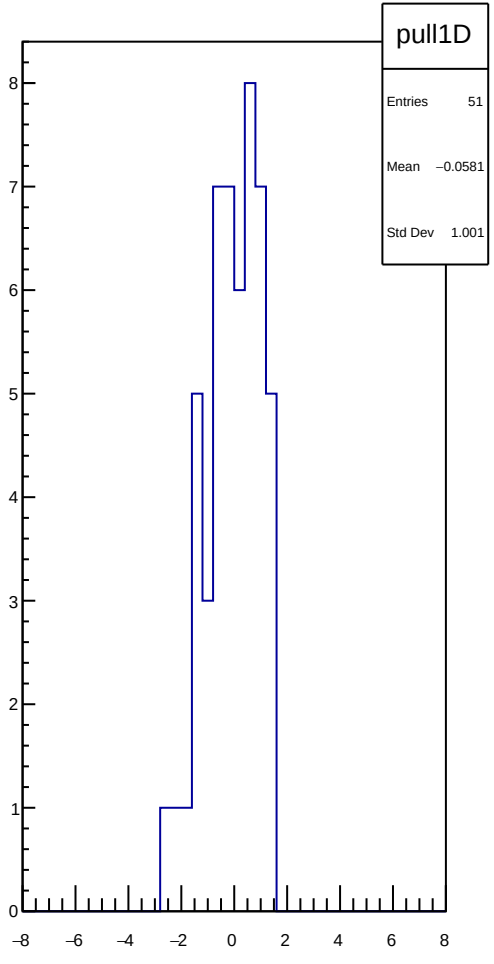
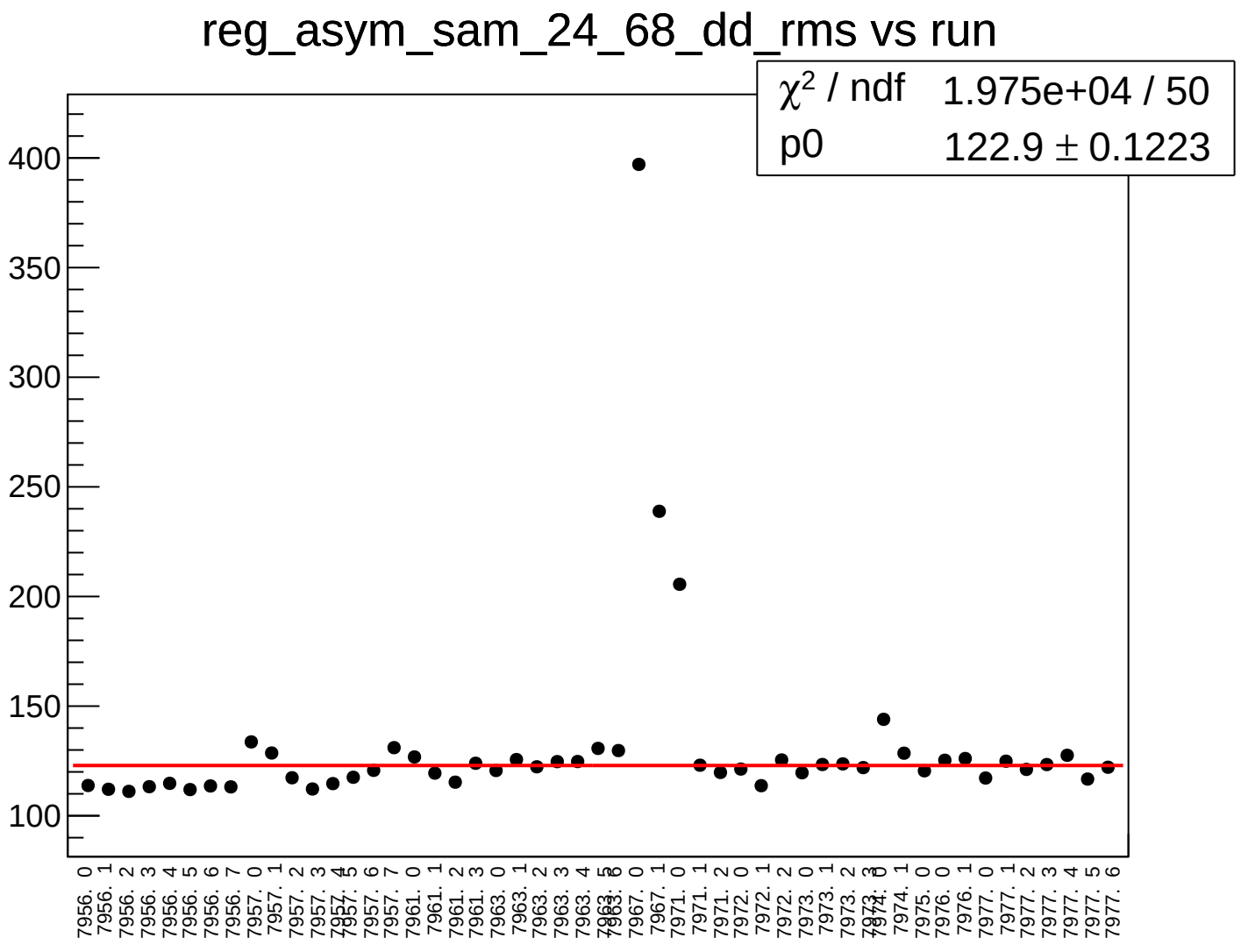
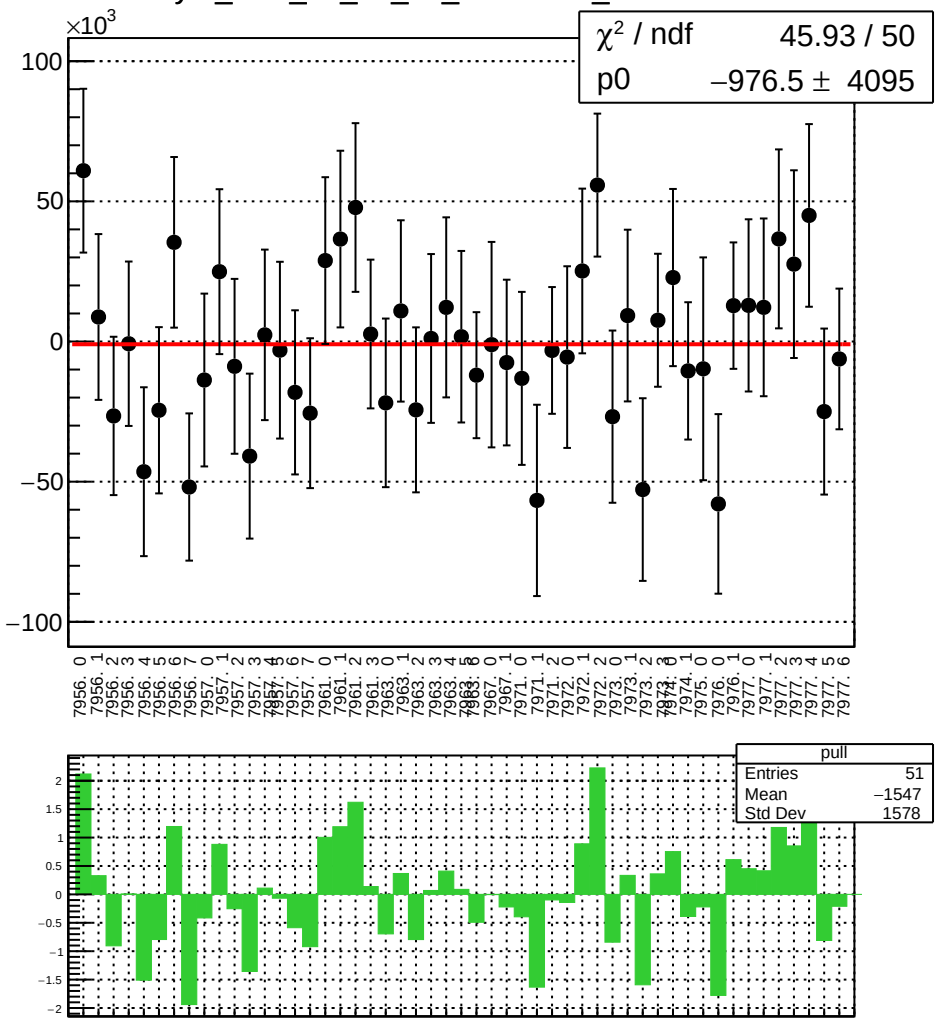
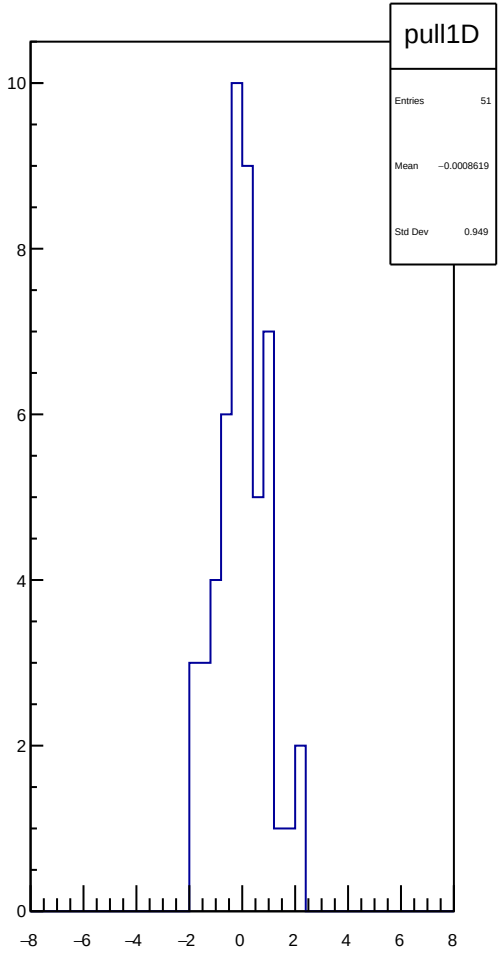
7977. 5
7977. 6

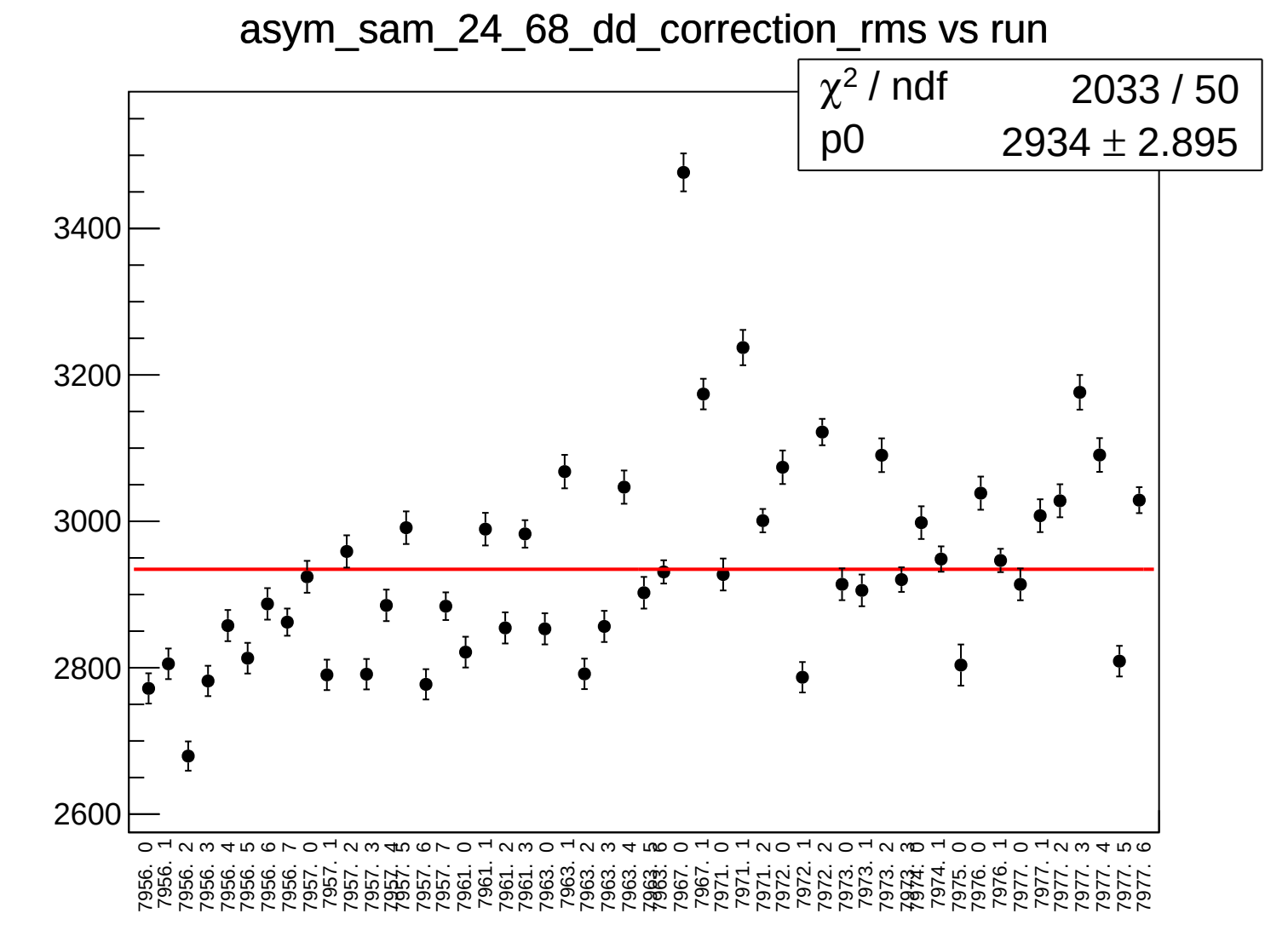

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 51.29 / 50
p0 315.4 ± 173
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 15.6
Std Dev 17.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

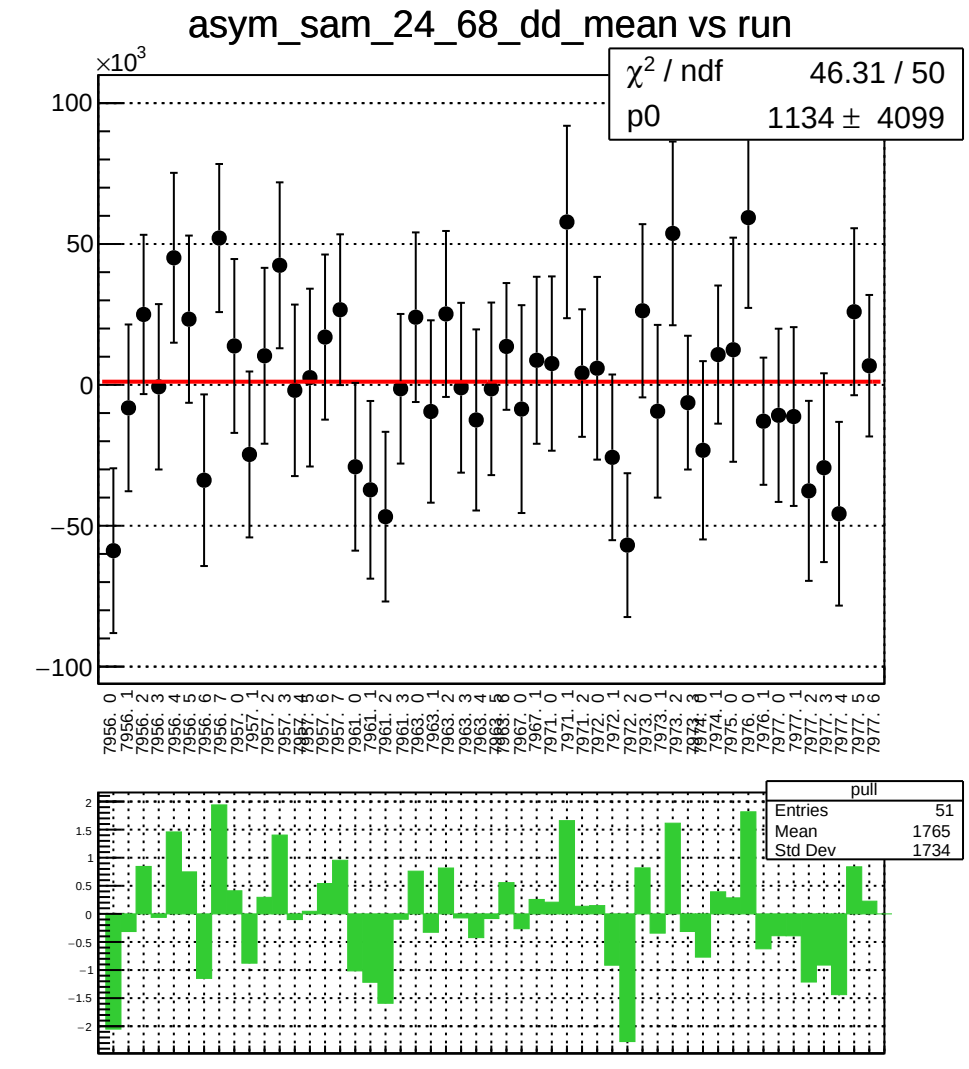

pull1D
Entries 51
Mean −0.0581
Std Dev 1.001
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

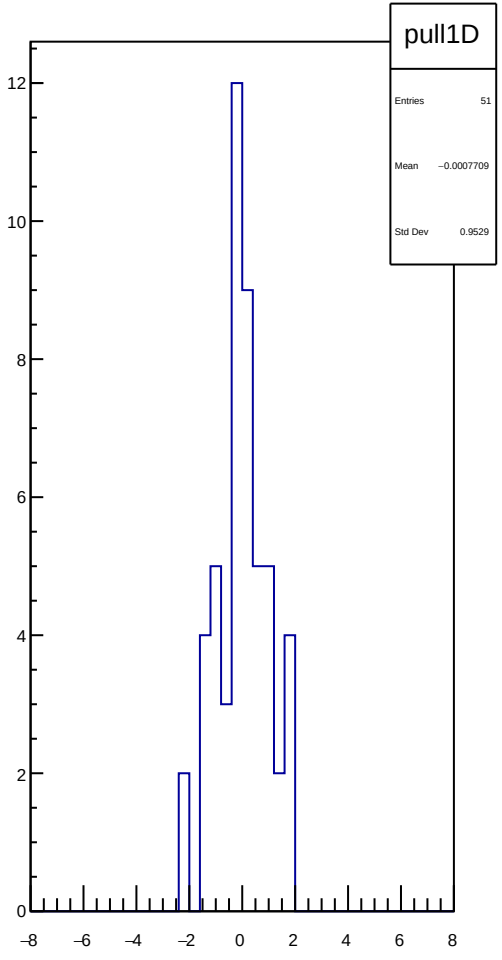

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.975e+04 / 50
p0 122.9 ± 0.1223
400
350
300
250
200
150
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

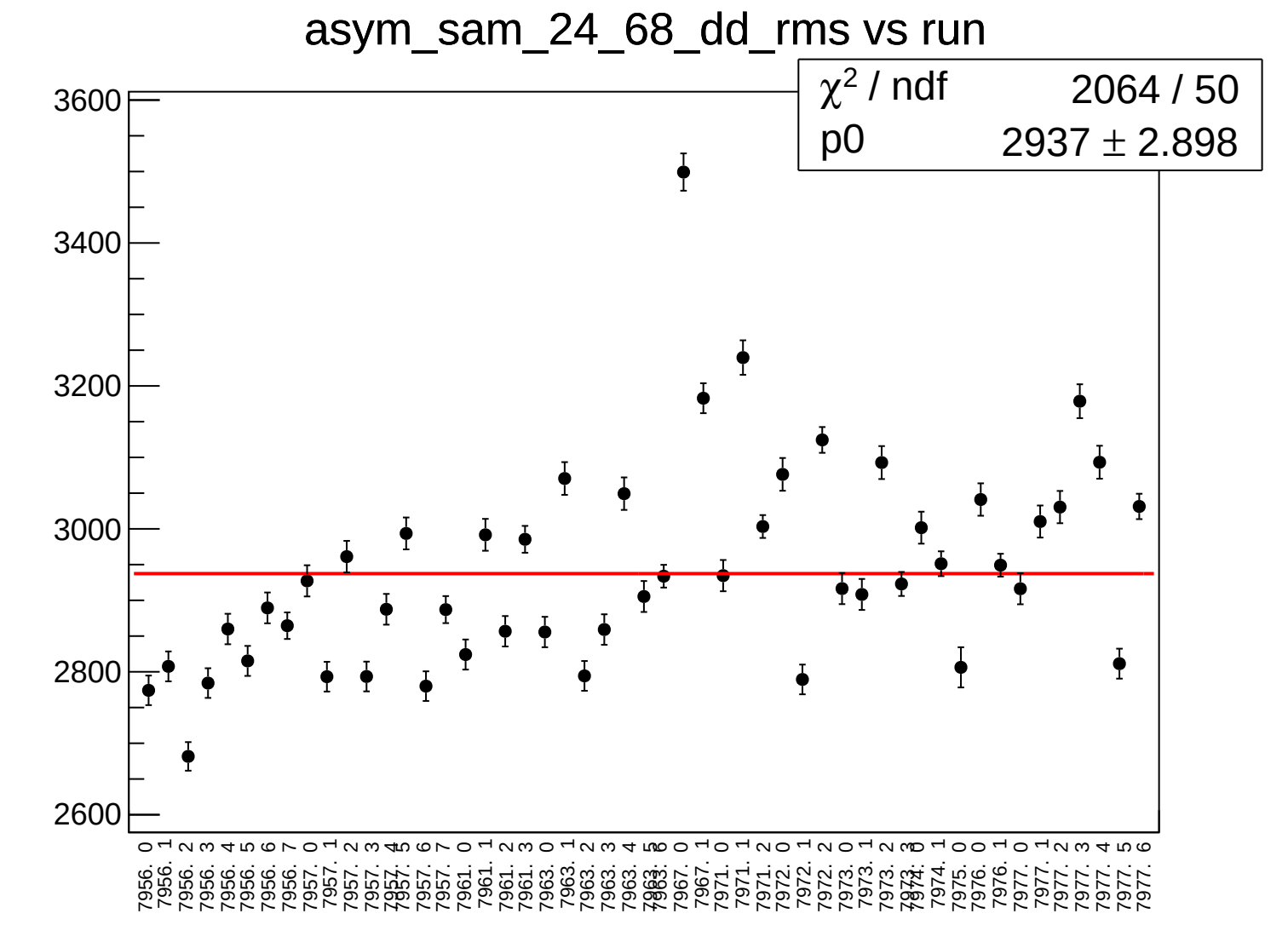

asym_sam_24_68_dd_correction_mean vs run
×10^3
χ² / ndf 45.93 / 50
p0 −976.5 ± 4095
100
50
0
−50
−100
pull
Entries 51
Mean −1547
Std Dev 1578
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.0008619
Std Dev 0.949
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 2033 / 50
p0 2934 ± 2.895
3400
3200
3000
2800
2600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 46.31 / 50
p0 1134 ± 4099
100
50
0
−50
−100
pull
Entries 51
Mean 1765
Std Dev 1734
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.0007709
Std Dev 0.9529
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_24_68_dd_rms vs run
χ² / ndf 2064 / 50
p0 2937 ± 2.898
3600
3400
3200
3000
2800
2600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
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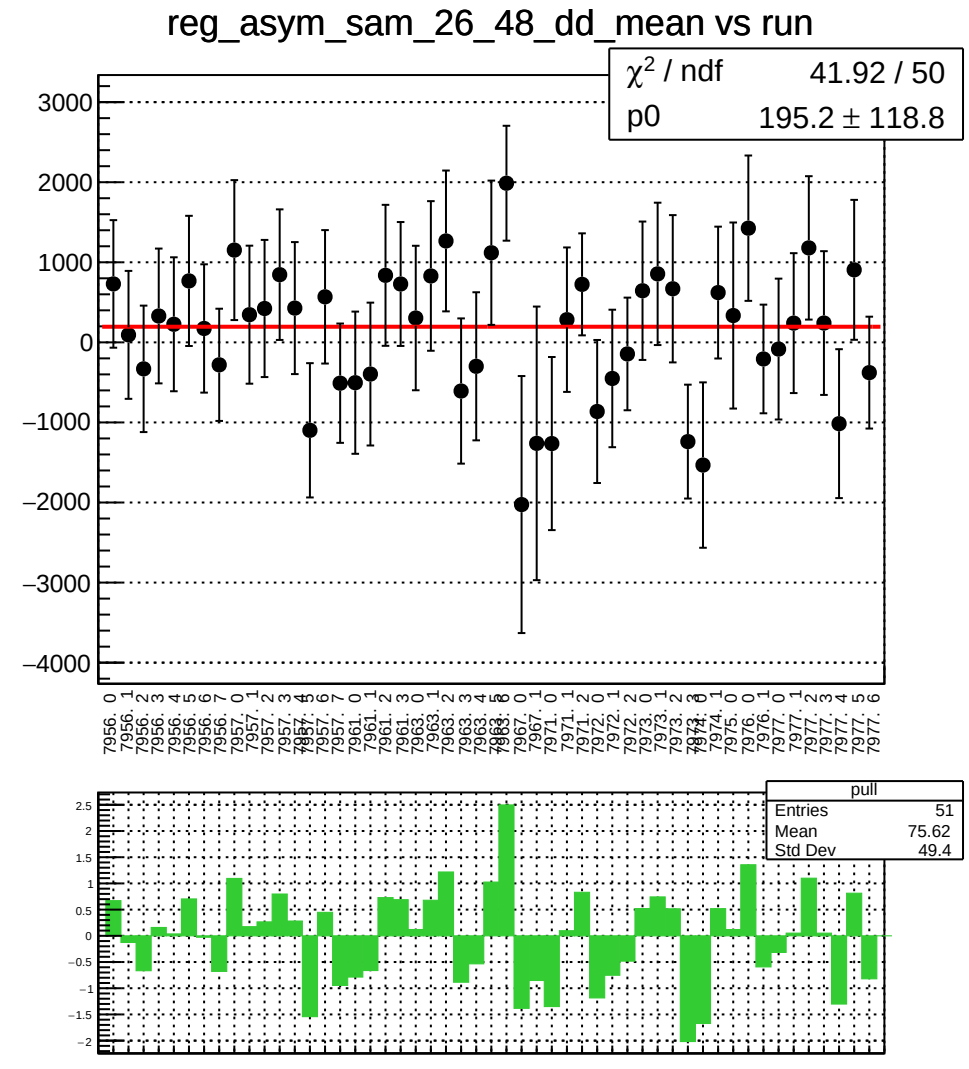
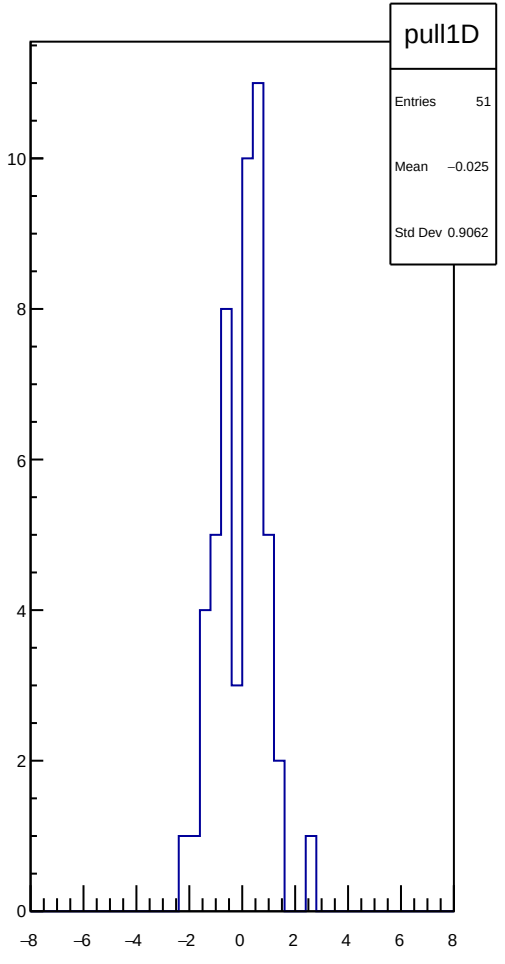
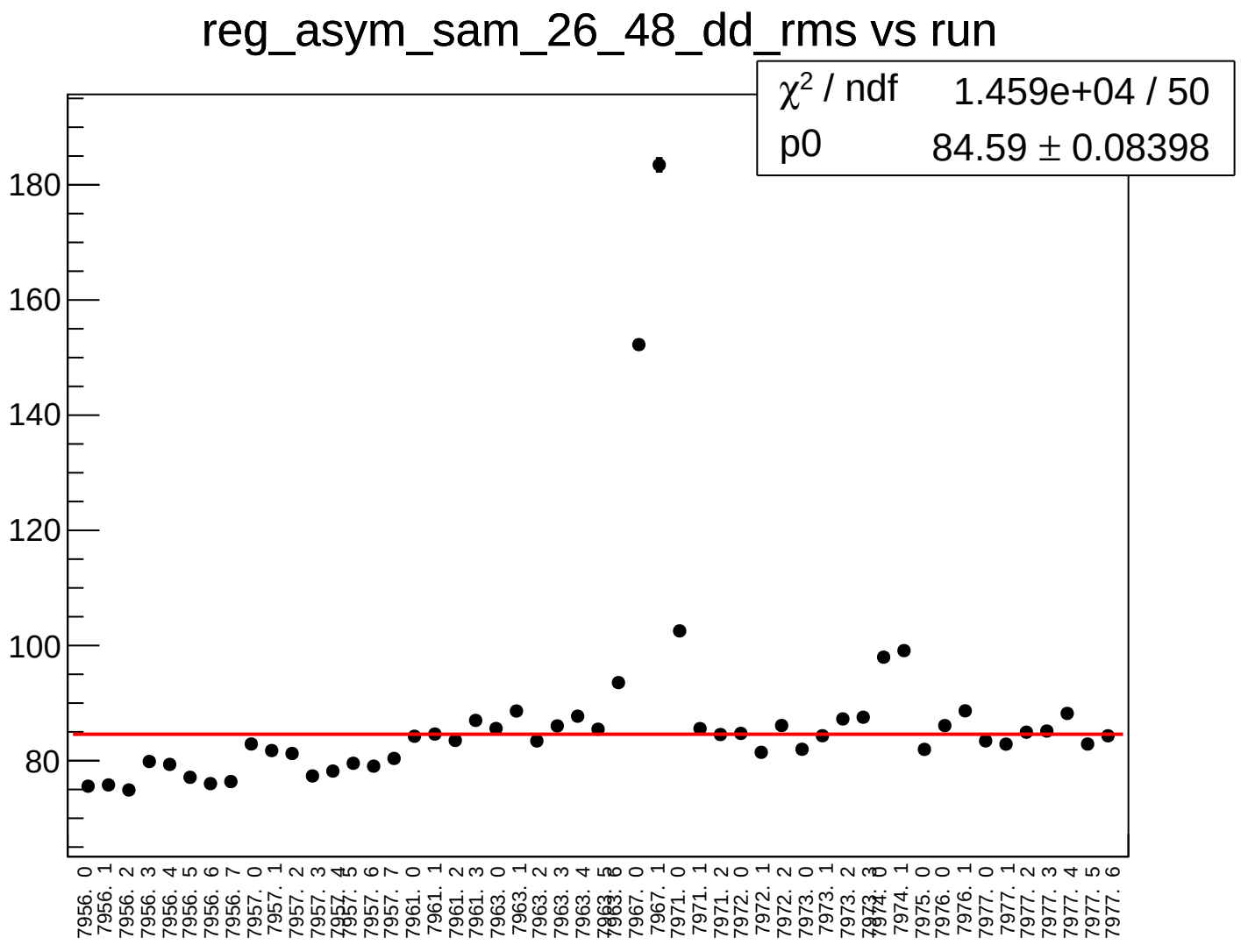
7977. 5
7977. 6


reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 41.92 / 50
p0 195.2 ± 118.8
pull
Entries 51
Mean 75.62
Std Dev 49.4


pull1D
Entries 51
Mean −0.025
Std Dev 0.9062


reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.459e+04 / 50
p0 84.59 ± 0.08398
180
160
140
120
100
80
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
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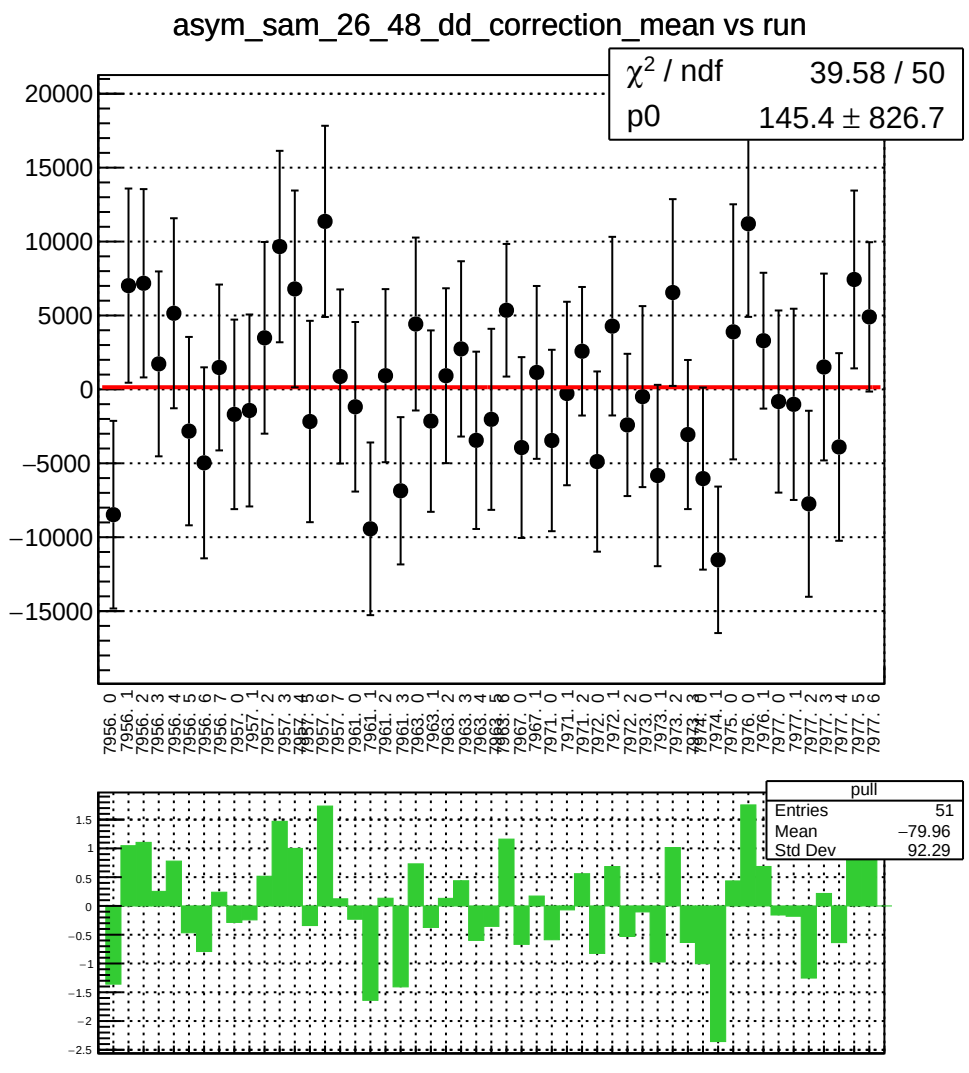
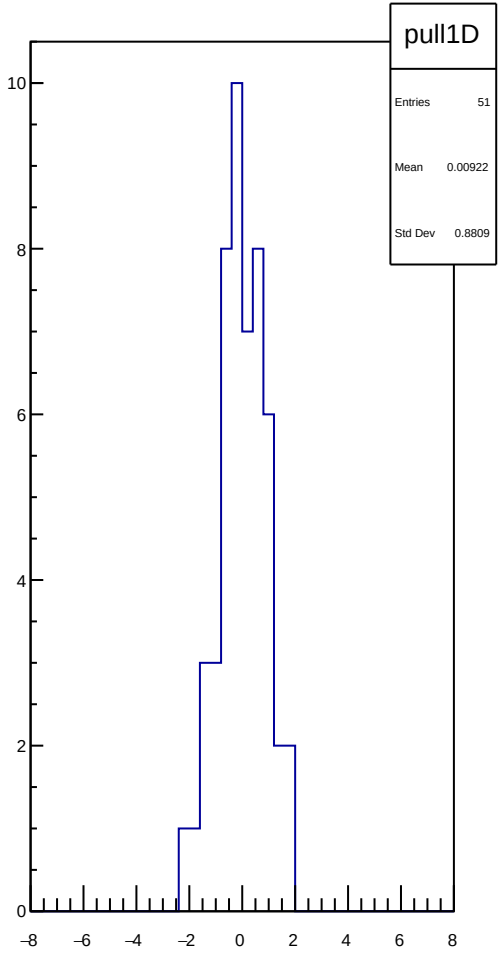
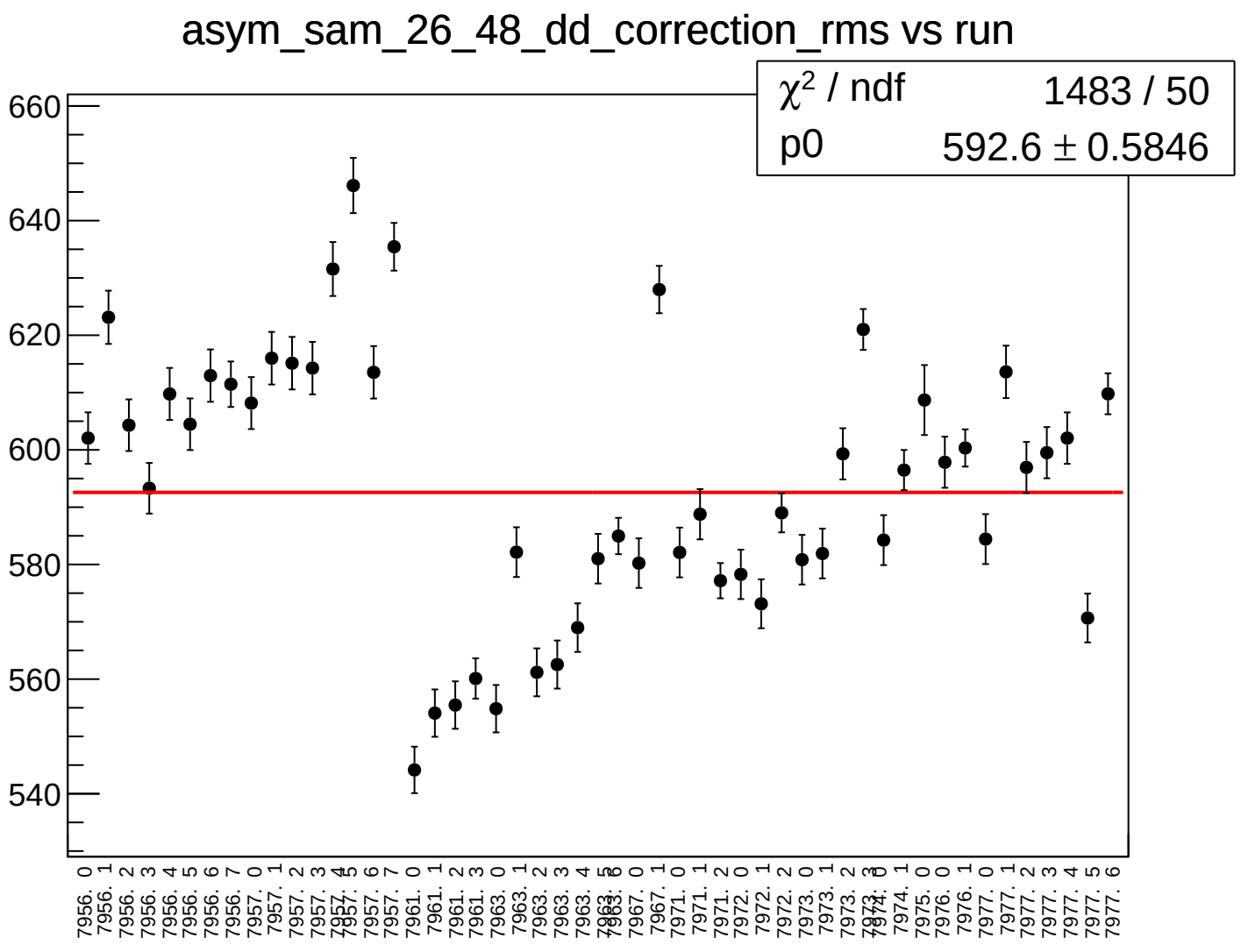
7977. 5
7977. 6


asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 39.58 / 50
p0 145.4 ± 826.7
pull
Entries 51
Mean −79.96
Std Dev 92.29


pull1D
Entries 51
Mean 0.00922
Std Dev 0.8809


asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1483 / 50
p0 592.6 ± 0.5846
660
640
620
600
580
560
540
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7973. 3
7974. 0
7974. 1
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7976. 1
7977. 0
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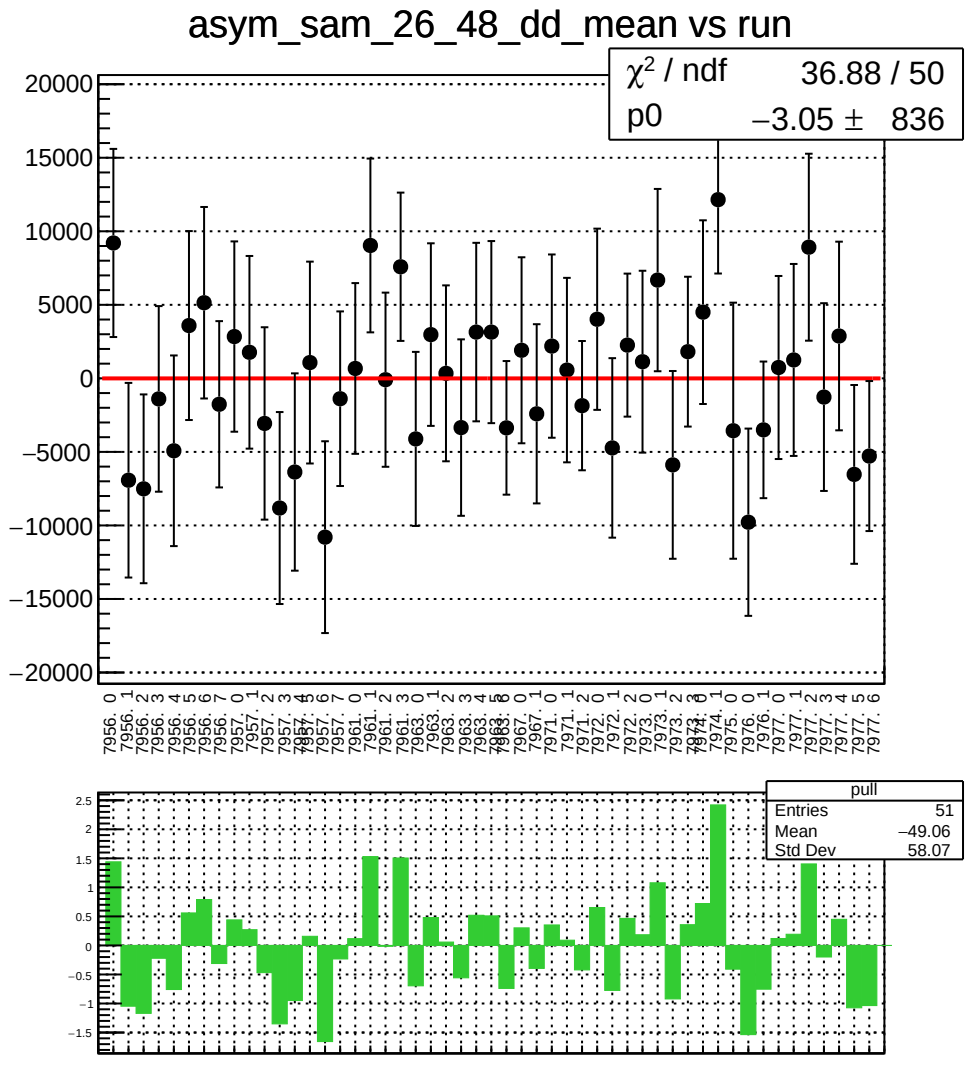
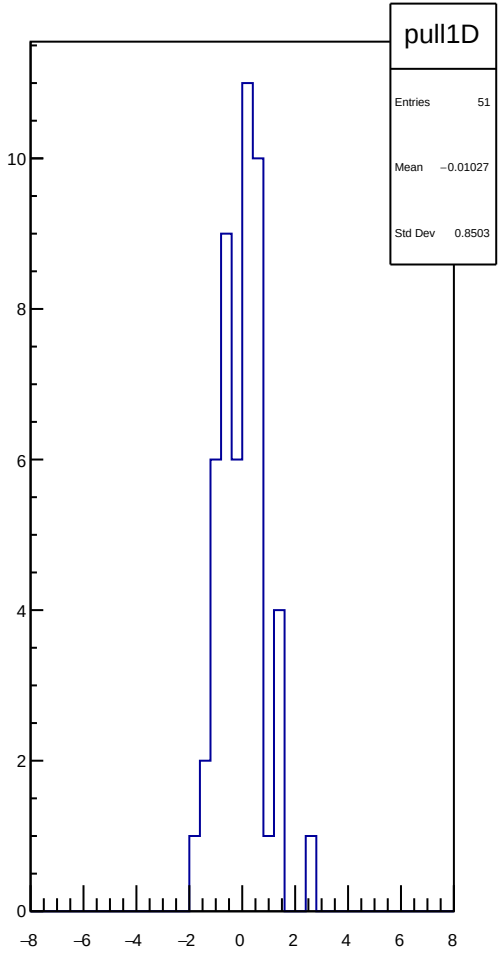
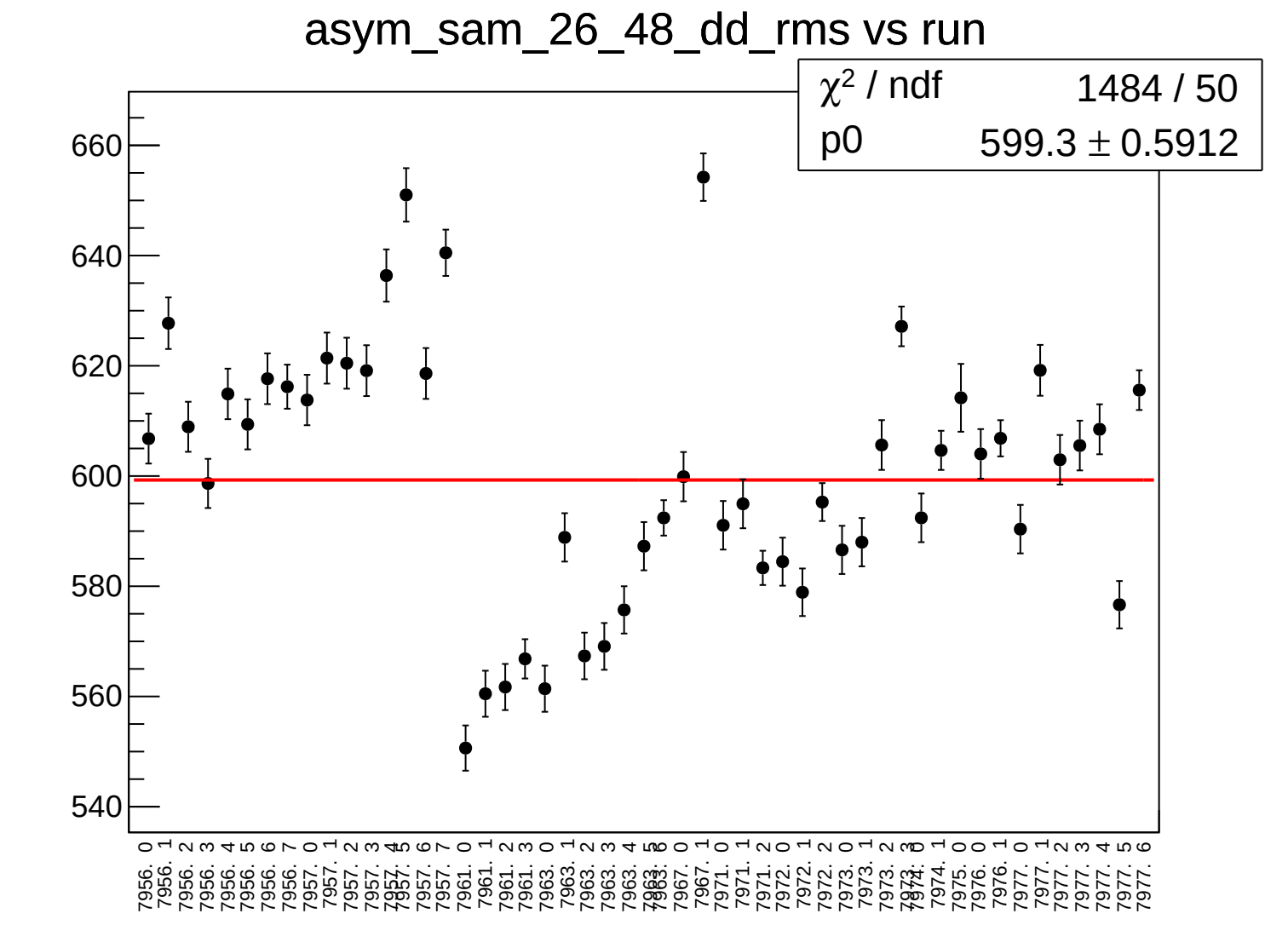
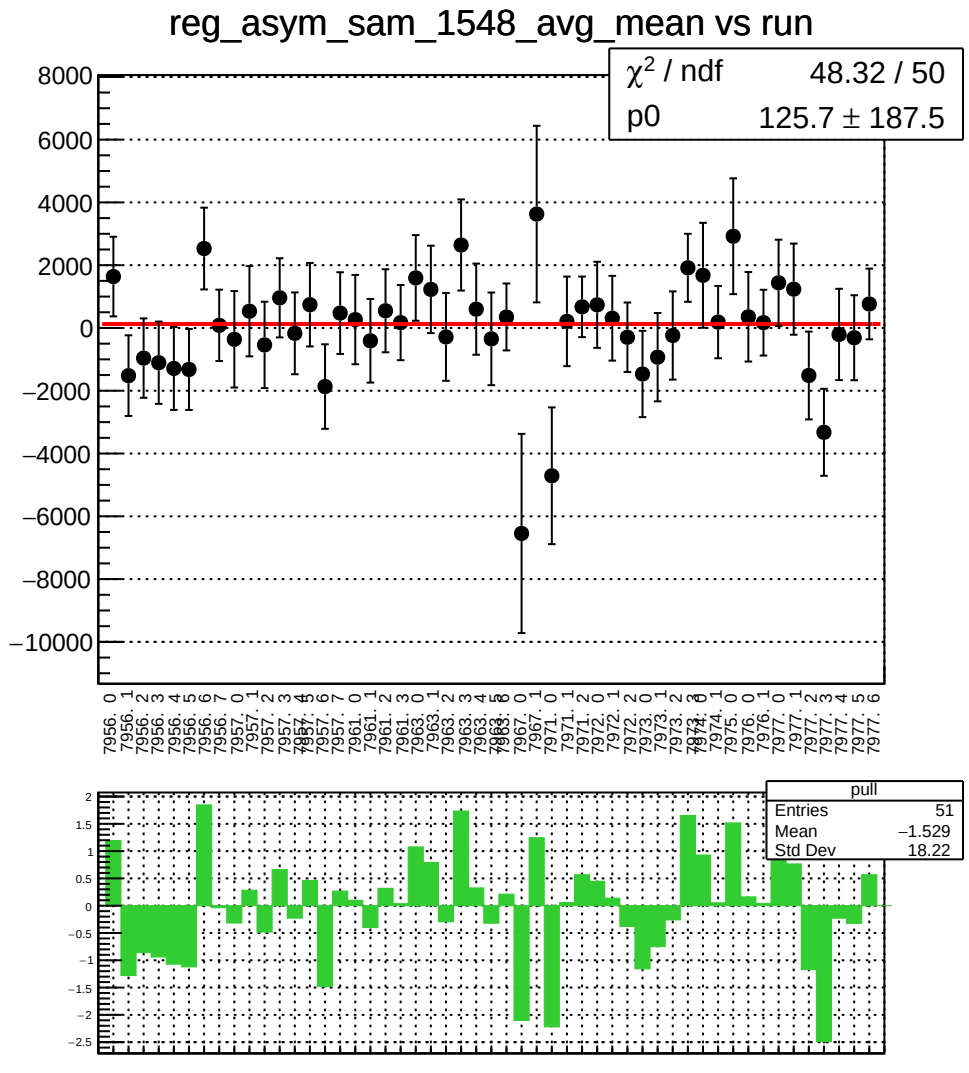
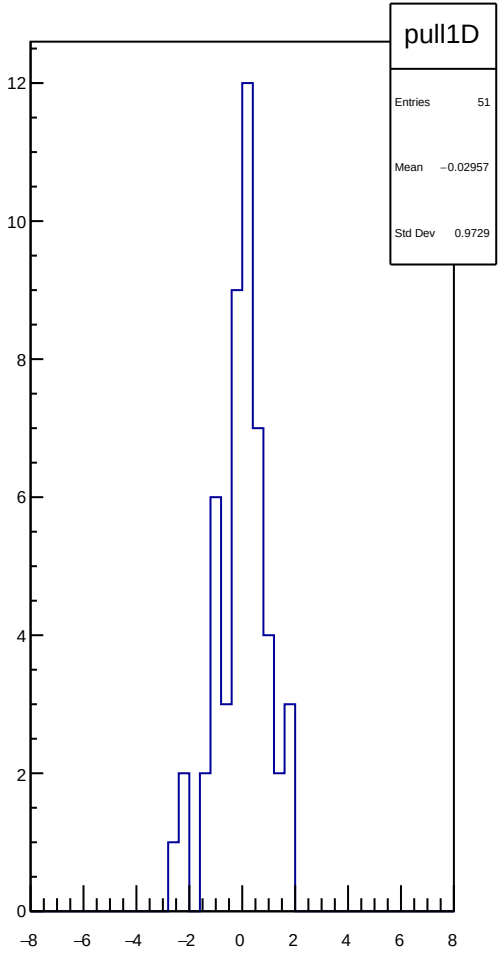
7977. 5
7977. 6

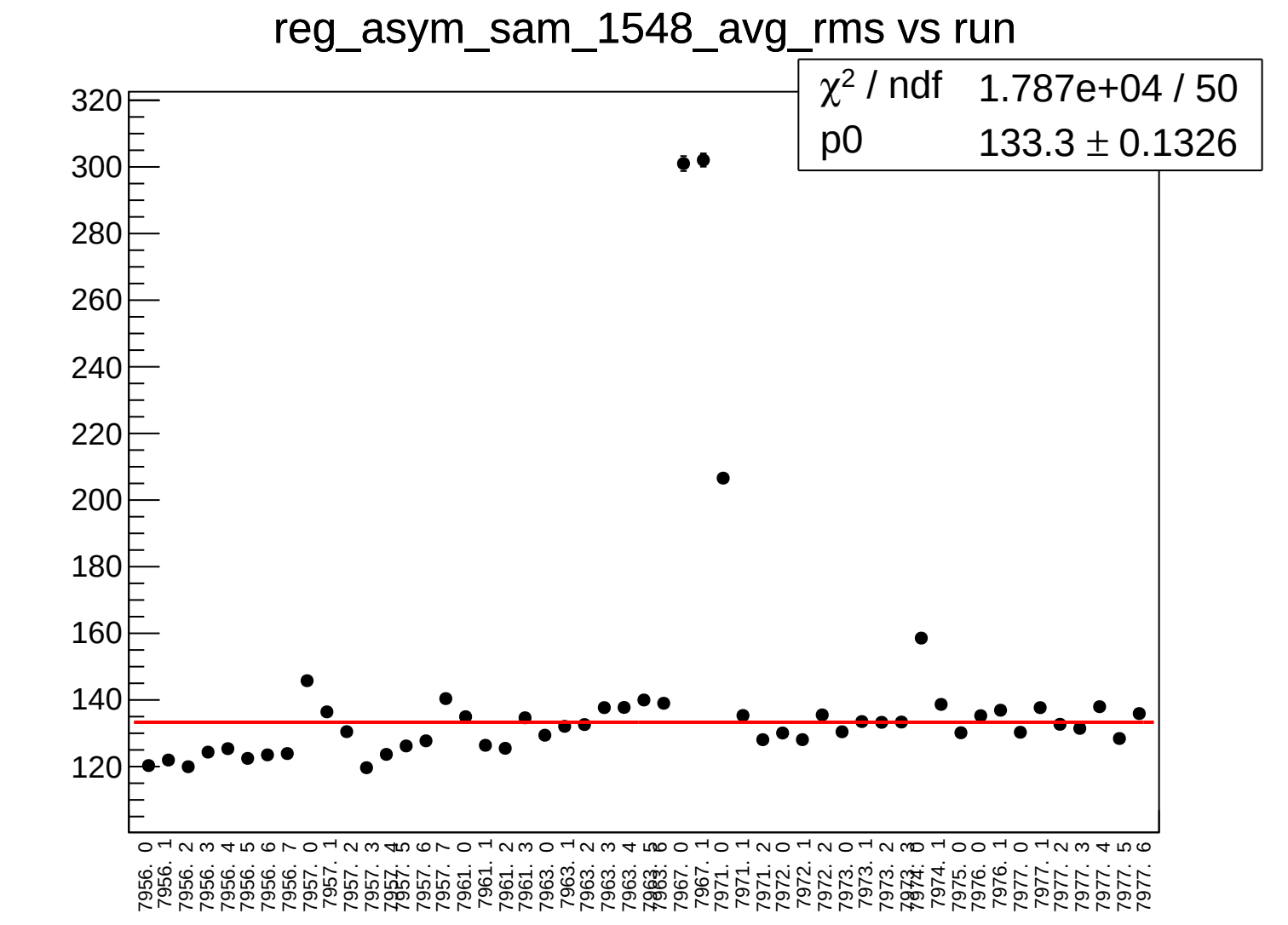

asym_sam_26_48_dd_mean vs run
χ² / ndf 36.88 / 50
p0 −3.05 ± 836
pull
Entries 51
Mean −49.06
Std Dev 58.07


pull1D
Entries 51
Mean −0.01027
Std Dev 0.8503


asym_sam_26_48_dd_rms vs run
χ² / ndf 1484 / 50
p0 599.3 ± 0.5912
660
640
620
600
580
560
540
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_1548_avg_mean vs run
χ² / ndf 48.32 / 50
p0 125.7 ± 187.5
pull
Entries 51
Mean −1.529
Std Dev 18.22


pull1D
Entries 51
Mean −0.02957
Std Dev 0.9729


reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.787e+04 / 50
p0 133.3 ± 0.1326
320
300
280
260
240
220
200
180
160
140
120
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
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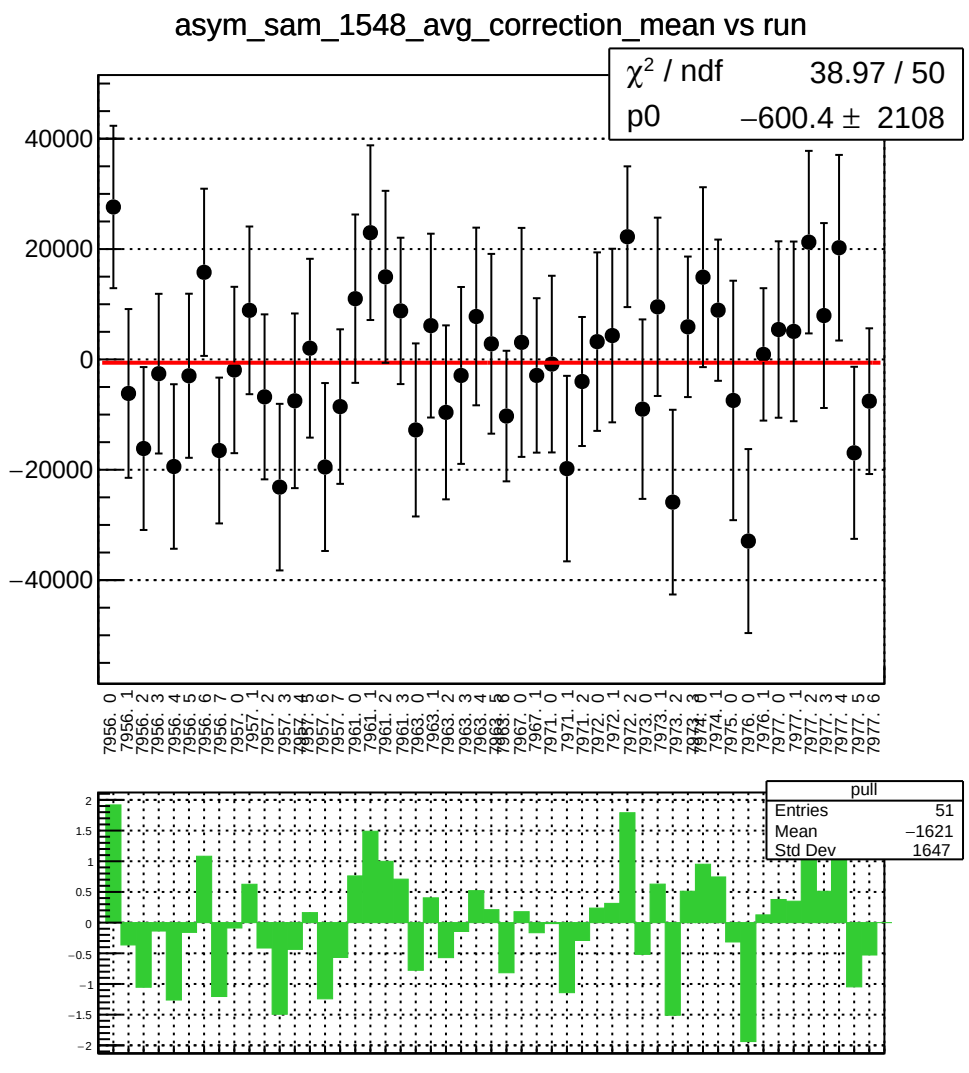
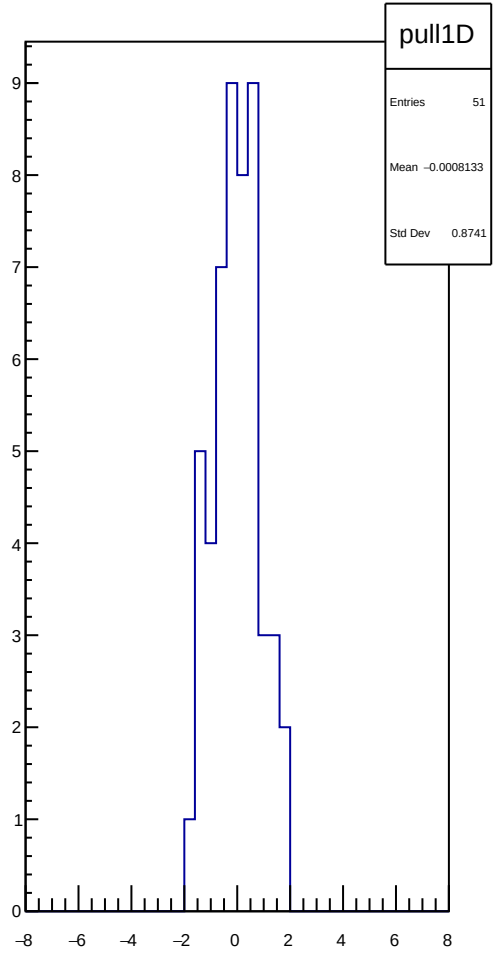
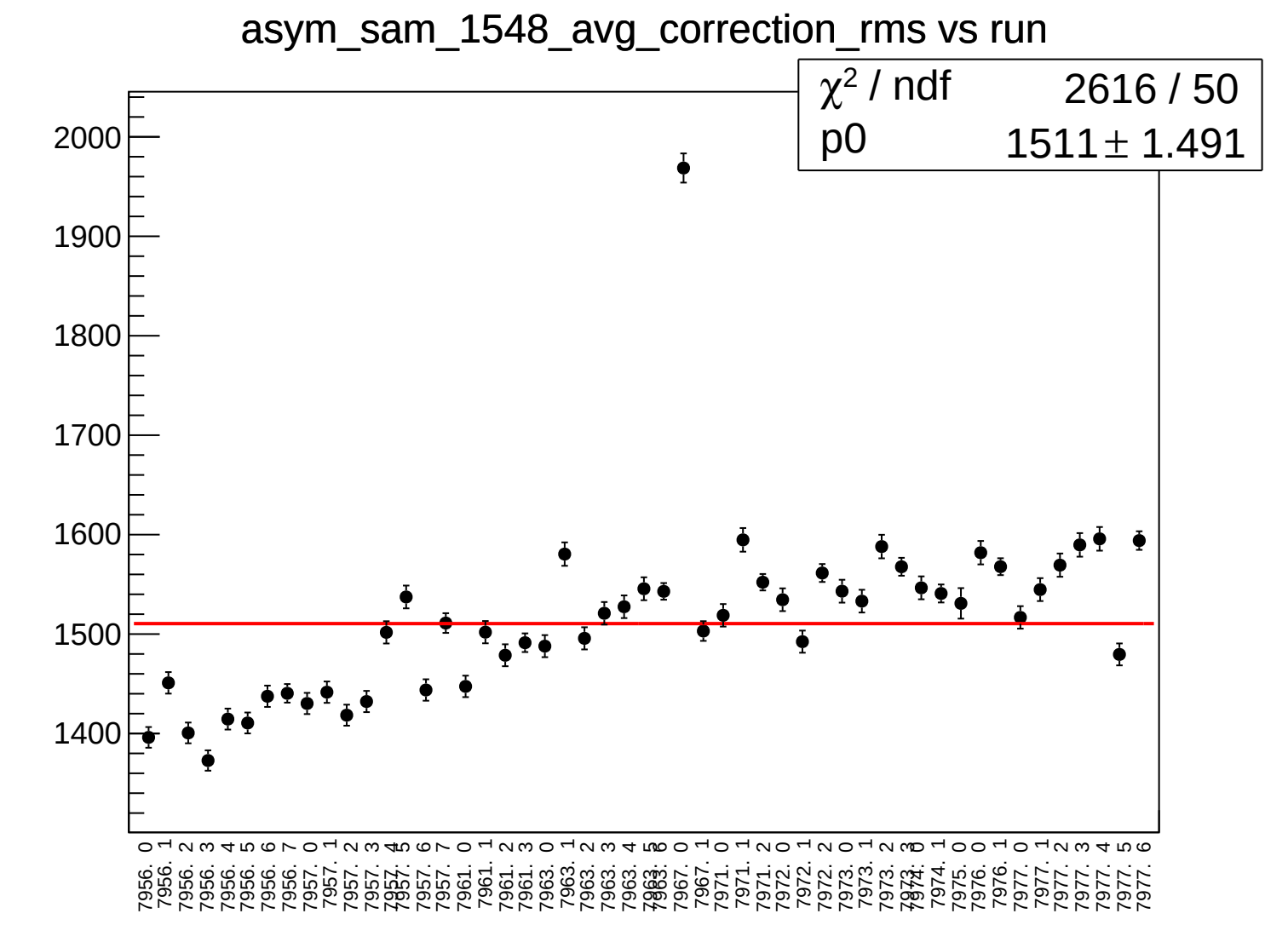
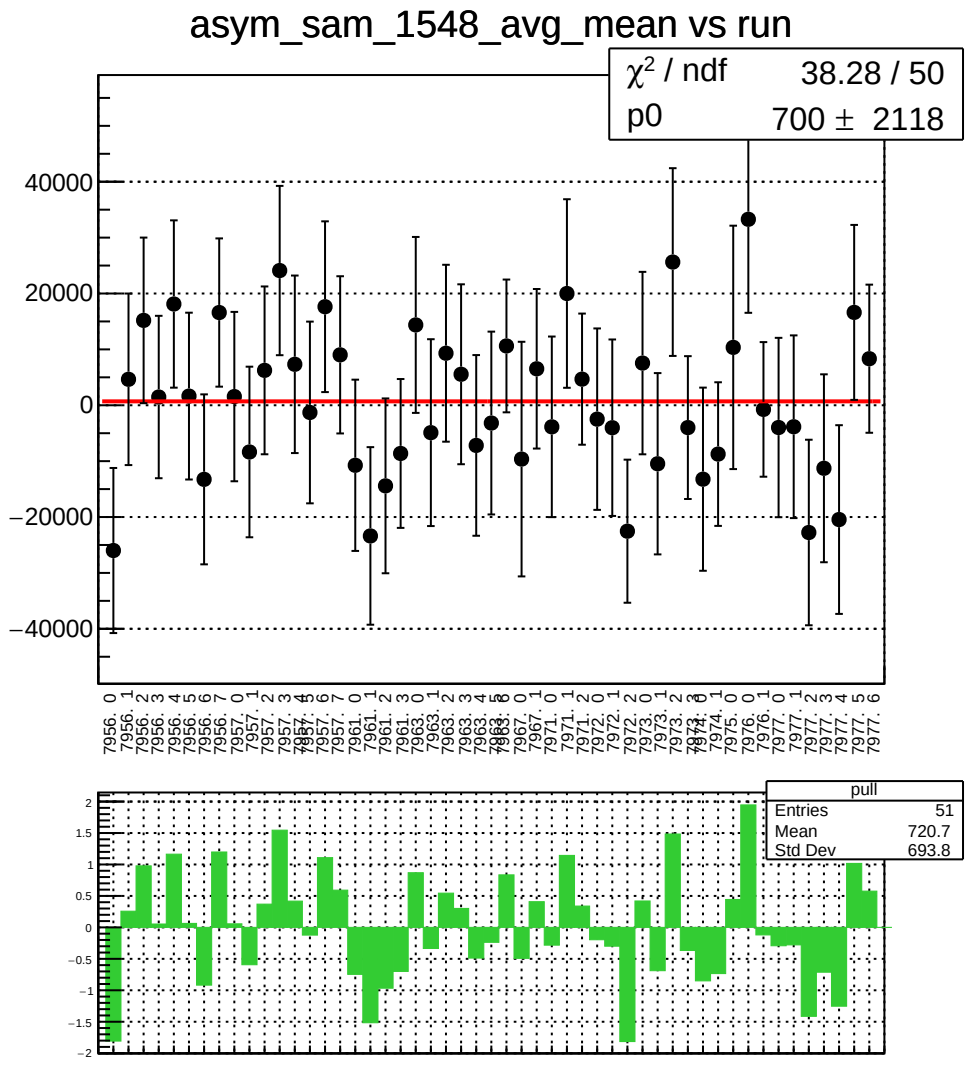
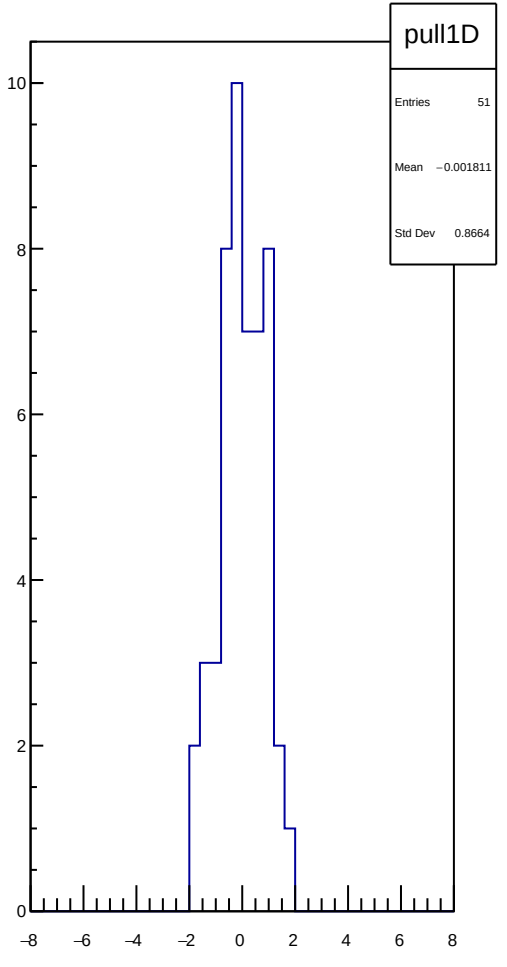
7977. 3
7977. 4
7977. 5
7977. 6

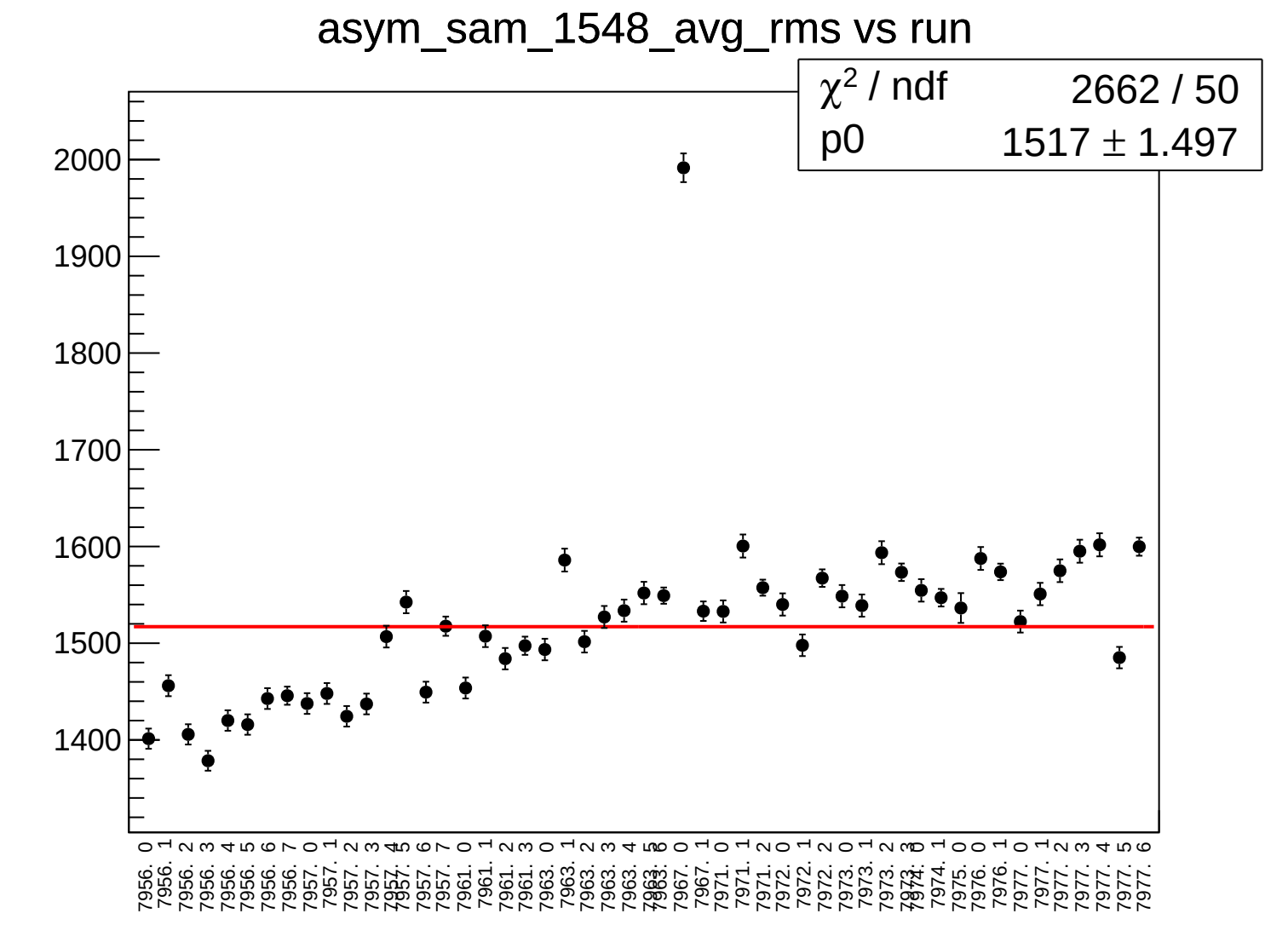

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 38.97 / 50
p0 −600.4 ± 2108
40000
20000
0
−20000
−40000
pull
Entries 51
Mean −1621
Std Dev 1647
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.0008133
Std Dev 0.8741
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_correction_rms vs run
χ² / ndf 2616 / 50
p0 1511 ± 1.491
2000
1900
1800
1700
1600
1500
1400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_1548_avg_mean vs run
χ² / ndf 38.28 / 50
p0 700 ± 2118
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 720.7
Std Dev 693.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.001811
Std Dev 0.8664
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_rms vs run
χ² / ndf 2662 / 50
p0 1517 ± 1.497
2000
1900
1800
1700
1600
1500
1400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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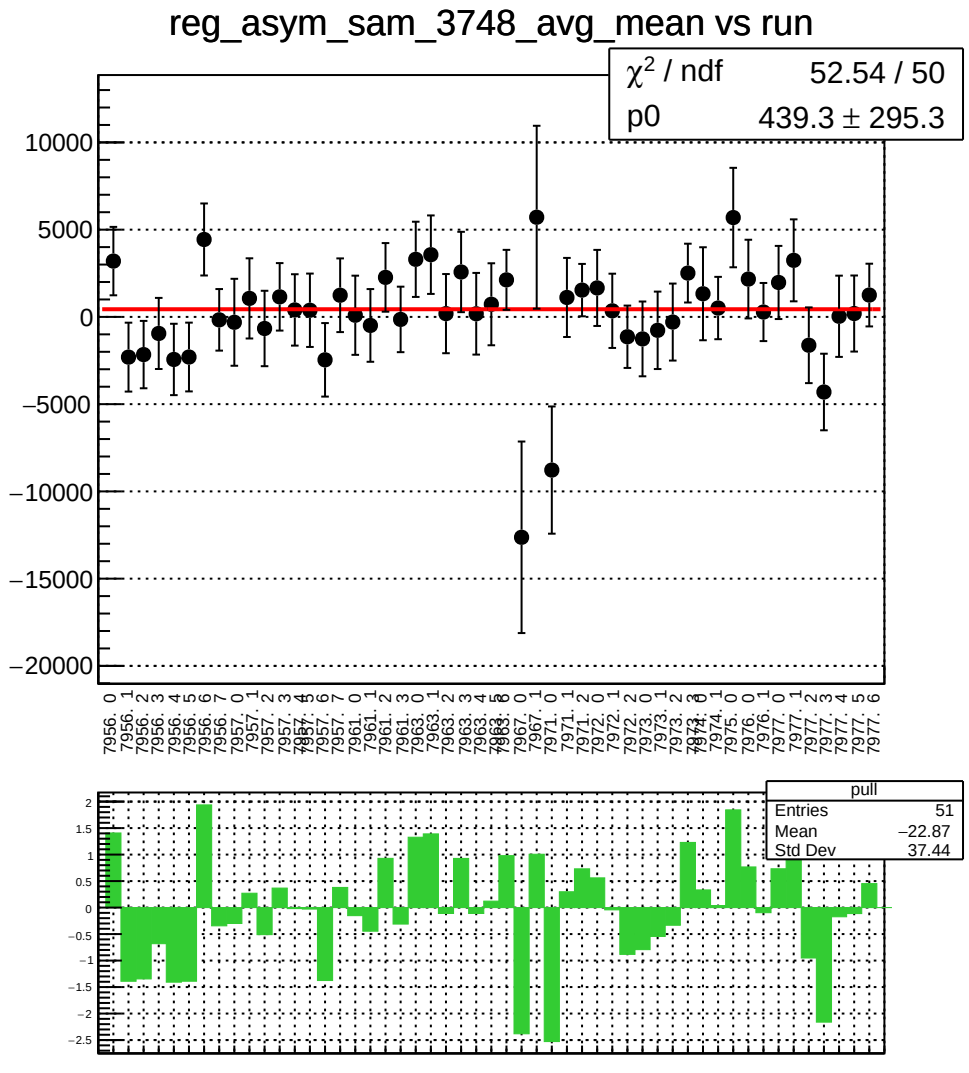
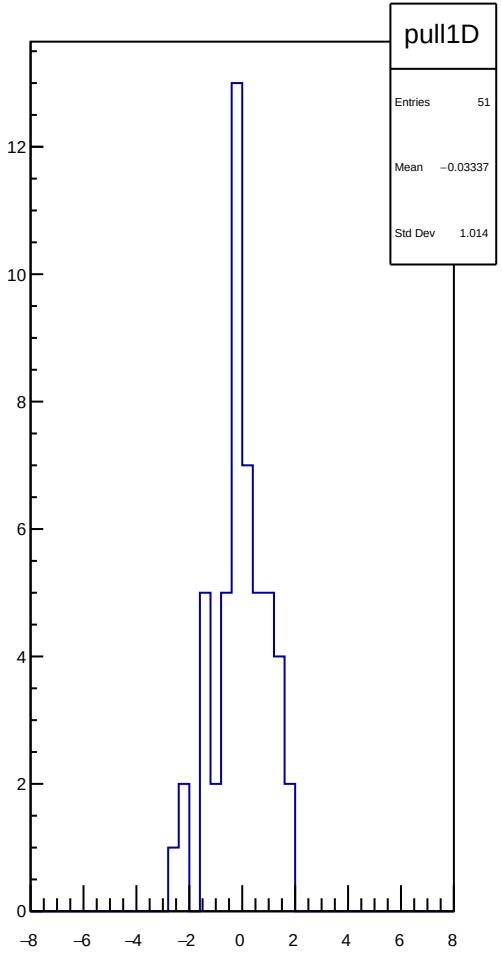
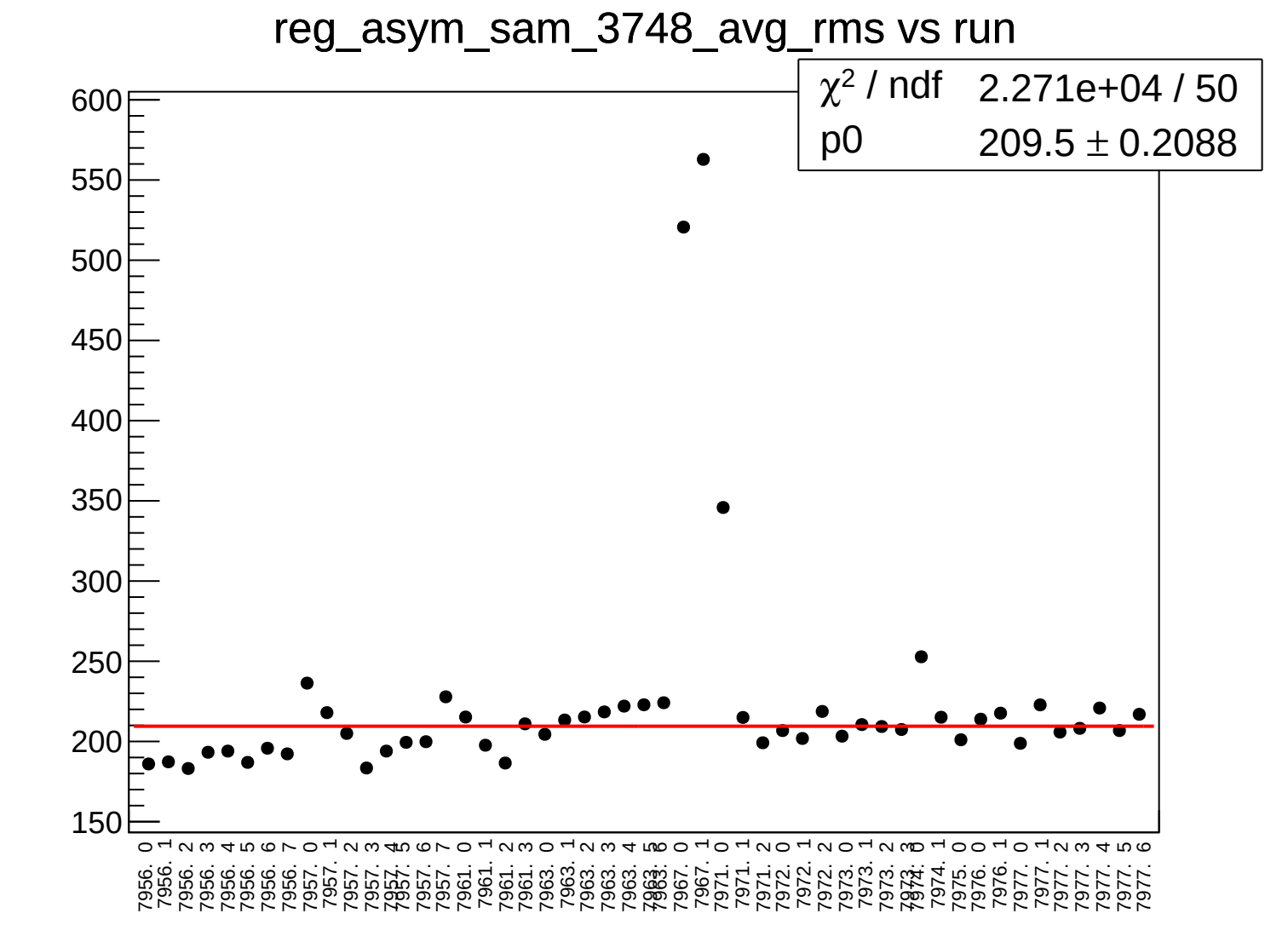
7977. 5
7977. 6


reg_asym_sam_3748_avg_mean vs run
χ² / ndf 52.54 / 50
p0 439.3 ± 295.3
pull
Entries 51
Mean −22.87
Std Dev 37.44


pull1D
Entries 51
Mean −0.03337
Std Dev 1.014


reg_asym_sam_3748_avg_rms vs run
χ² / ndf 2.271e+04 / 50
p0 209.5 ± 0.2088
600
550
500
450
400
350
300
250
200
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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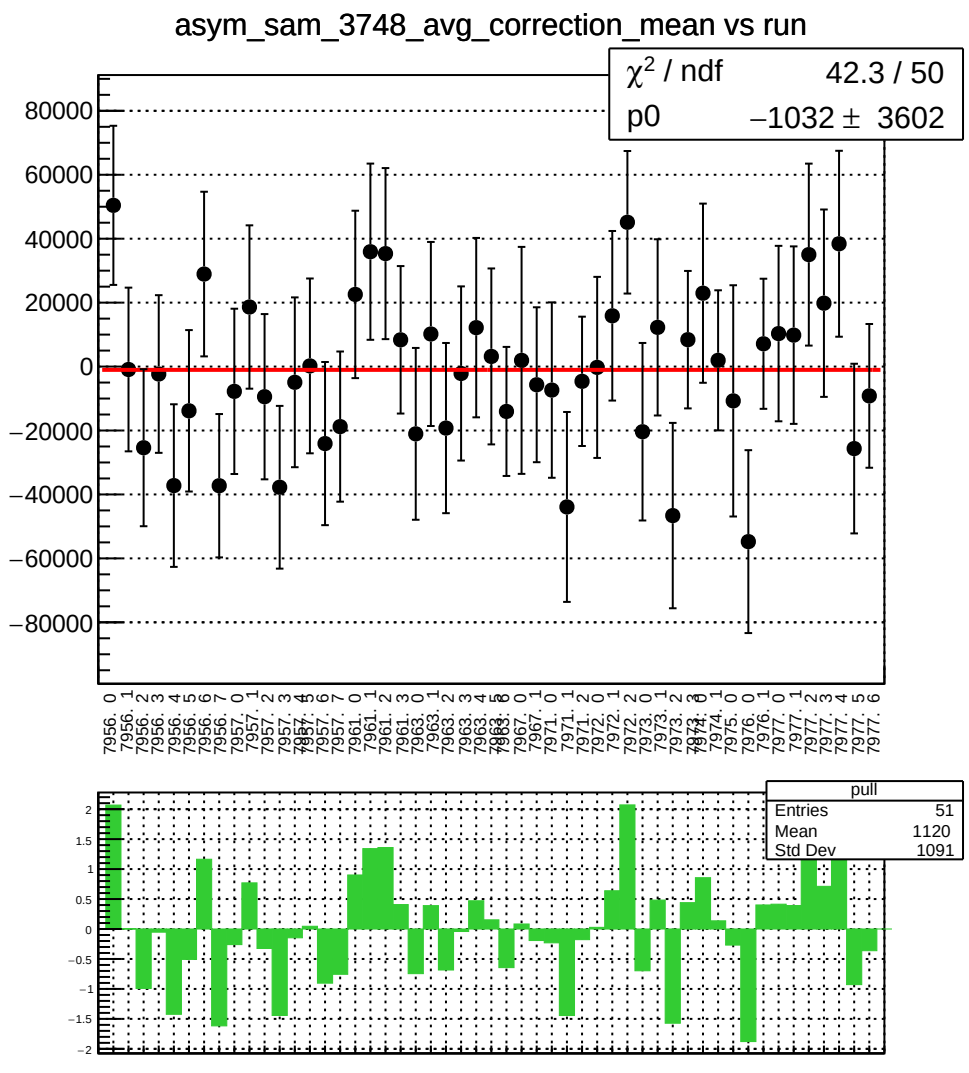
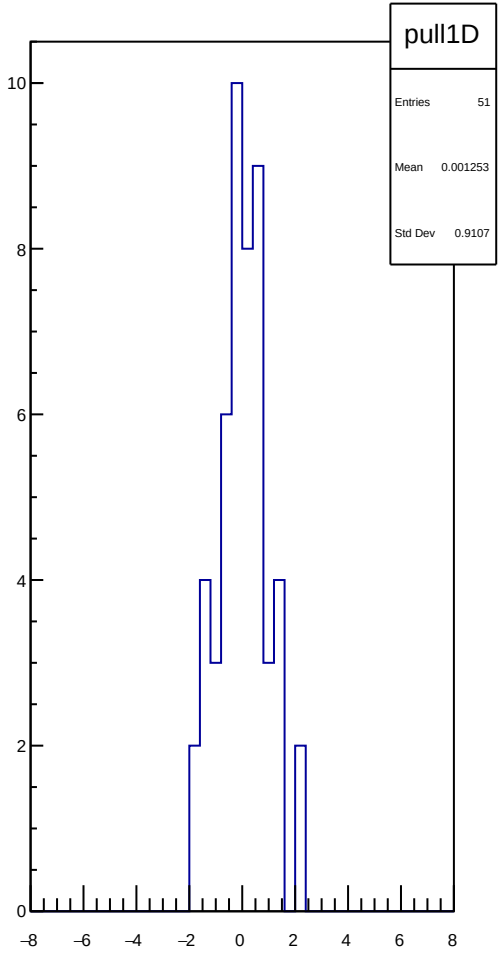
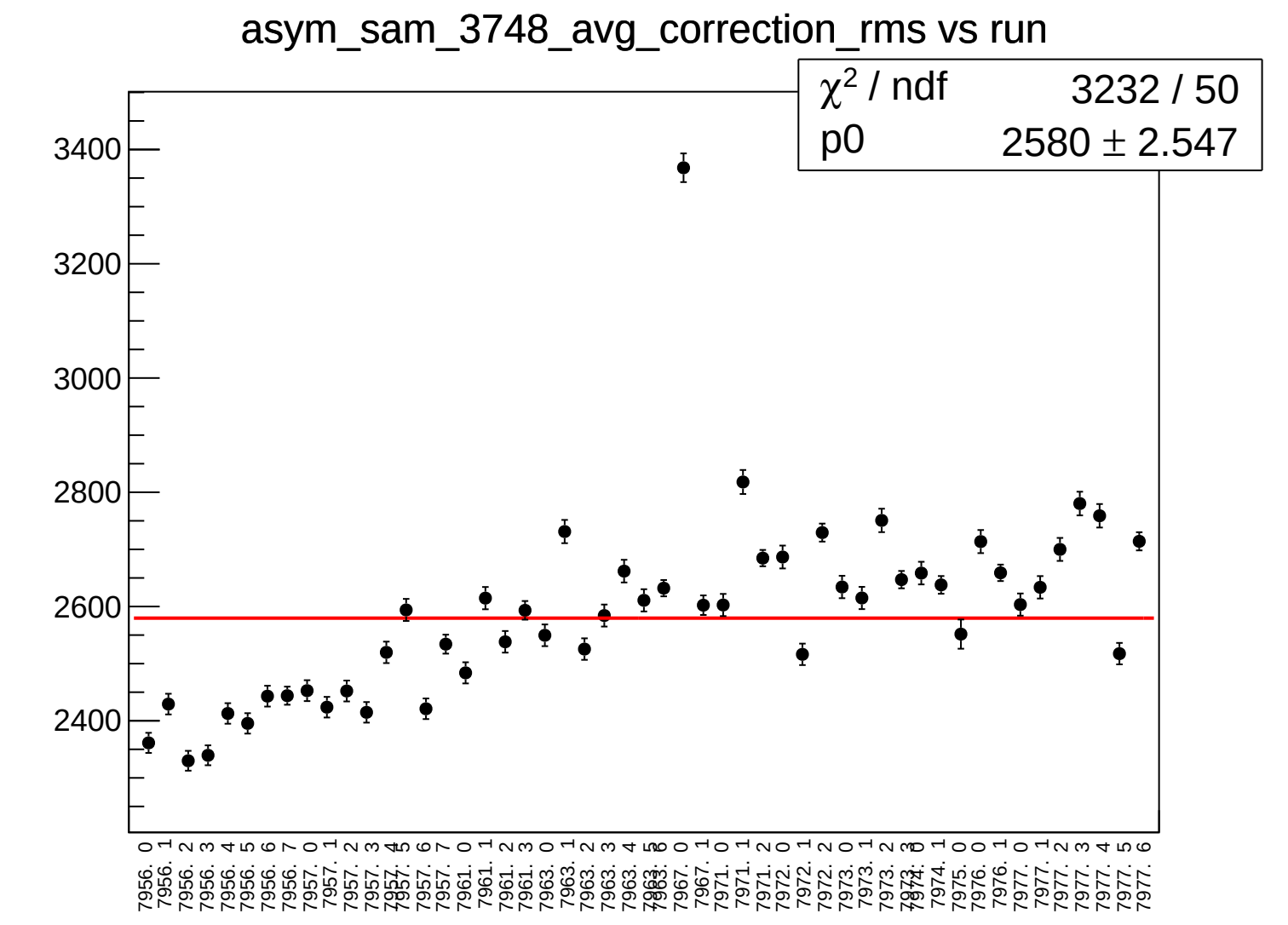
7977. 5
7977. 6


asym_sam_3748_avg_correction_mean vs run
χ² / ndf 42.3 / 50
p0 −1032 ± 3602
pull
Entries 51
Mean 1120
Std Dev 1091


pull1D
Entries 51
Mean 0.001253
Std Dev 0.9107


asym_sam_3748_avg_correction_rms vs run
χ² / ndf 3232 / 50
p0 2580 ± 2.547
3400
3200
3000
2800
2600
2400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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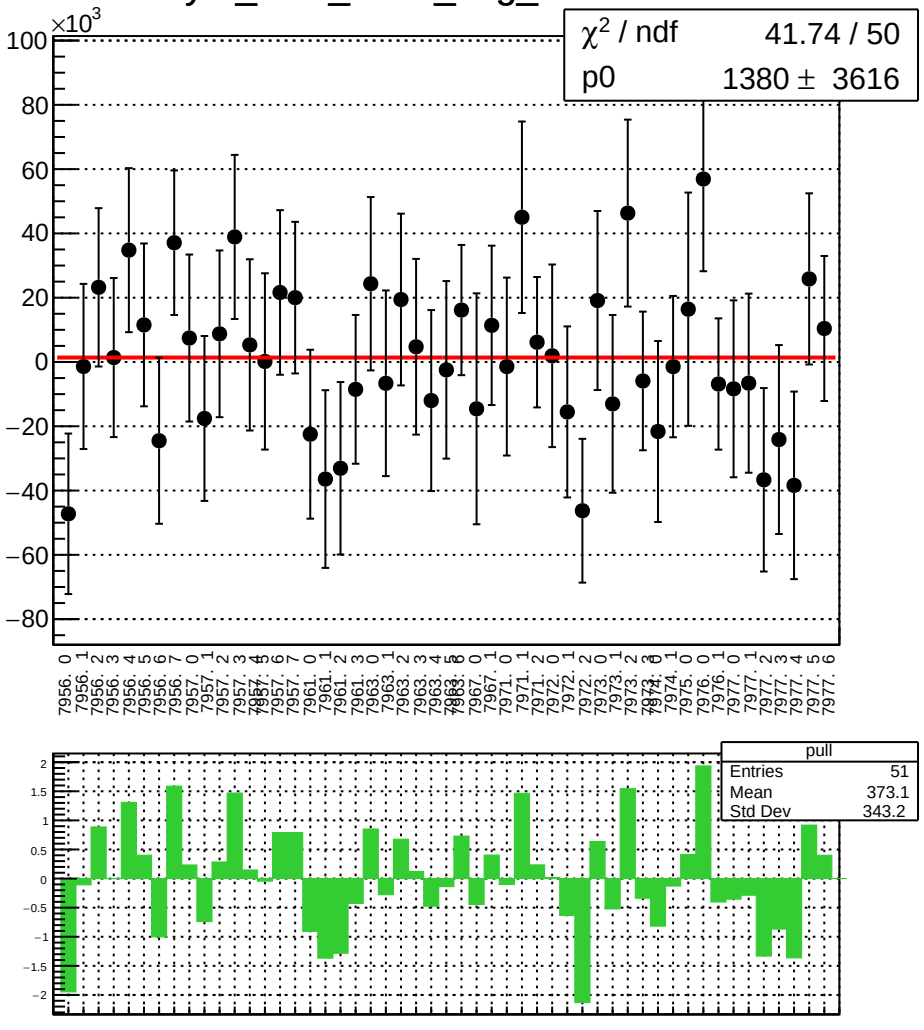
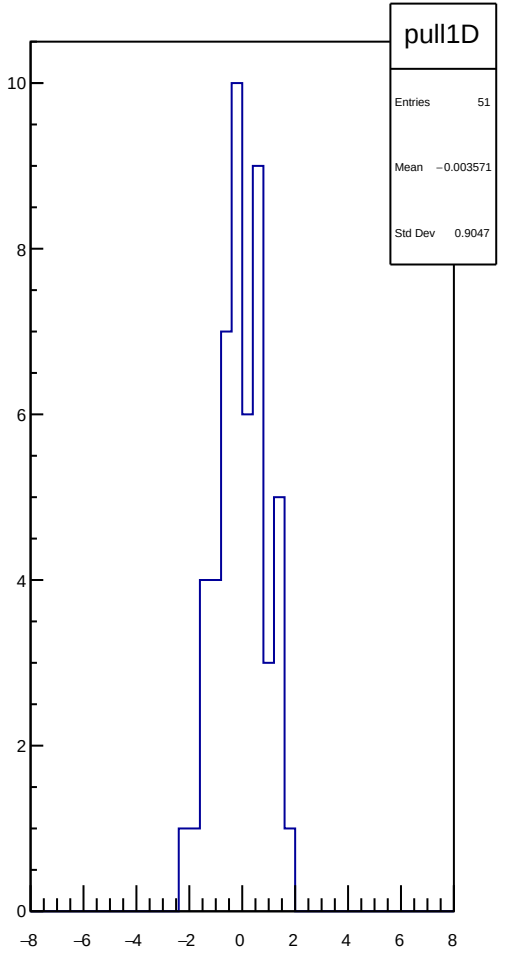
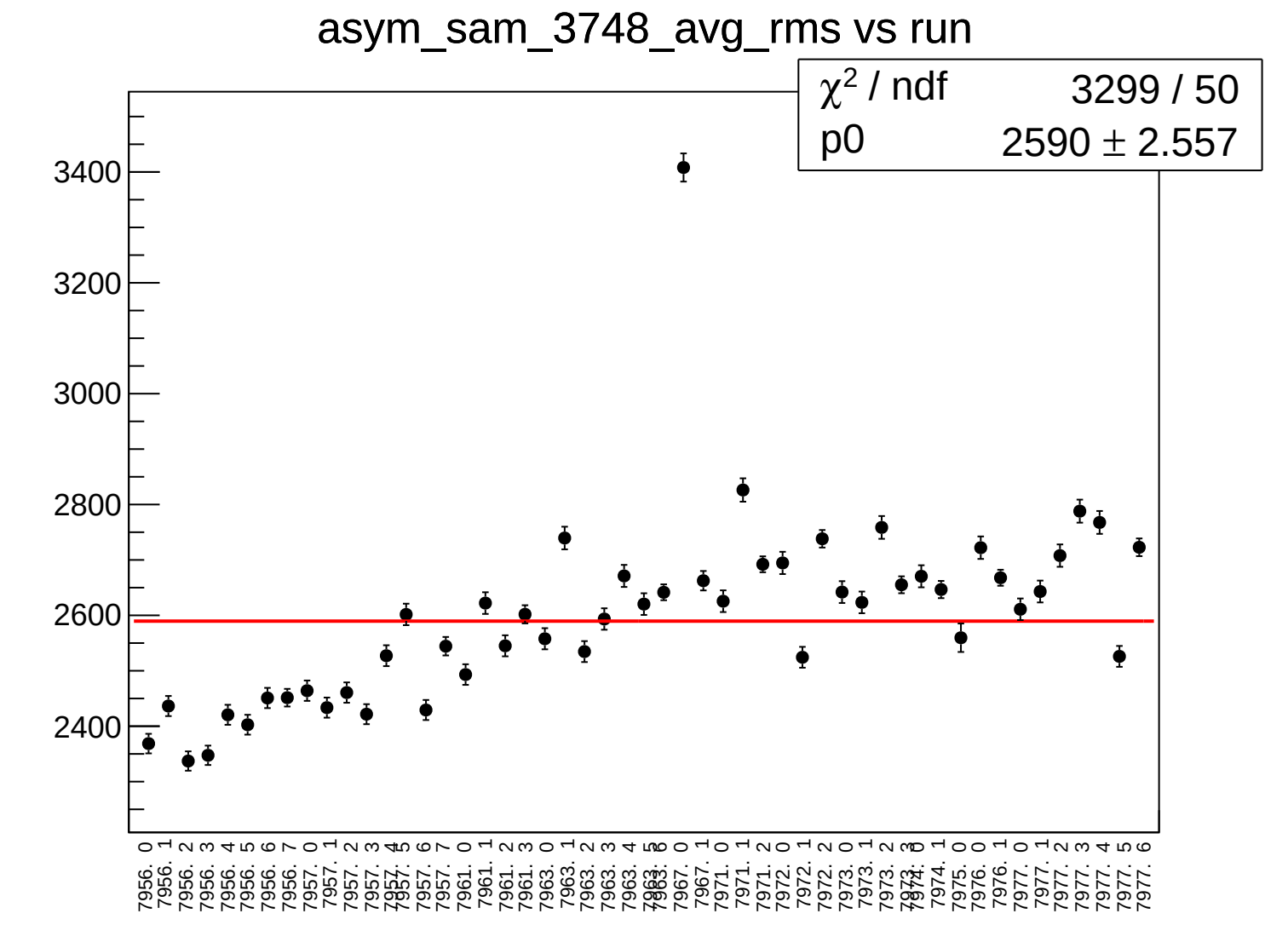
7977. 5
7977. 6


asym_sam_3748_avg_mean vs run
×10^3
χ² / ndf 41.74 / 50
p0 1380 ± 3616
pull
Entries 51
Mean 373.1
Std Dev 343.2


pull1D
Entries 51
Mean −0.003571
Std Dev 0.9047


asym_sam_3748_avg_rms vs run
χ² / ndf 3299 / 50
p0 2590 ± 2.557
3400
3200
3000
2800
2600
2400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
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7977. 0
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7977. 2
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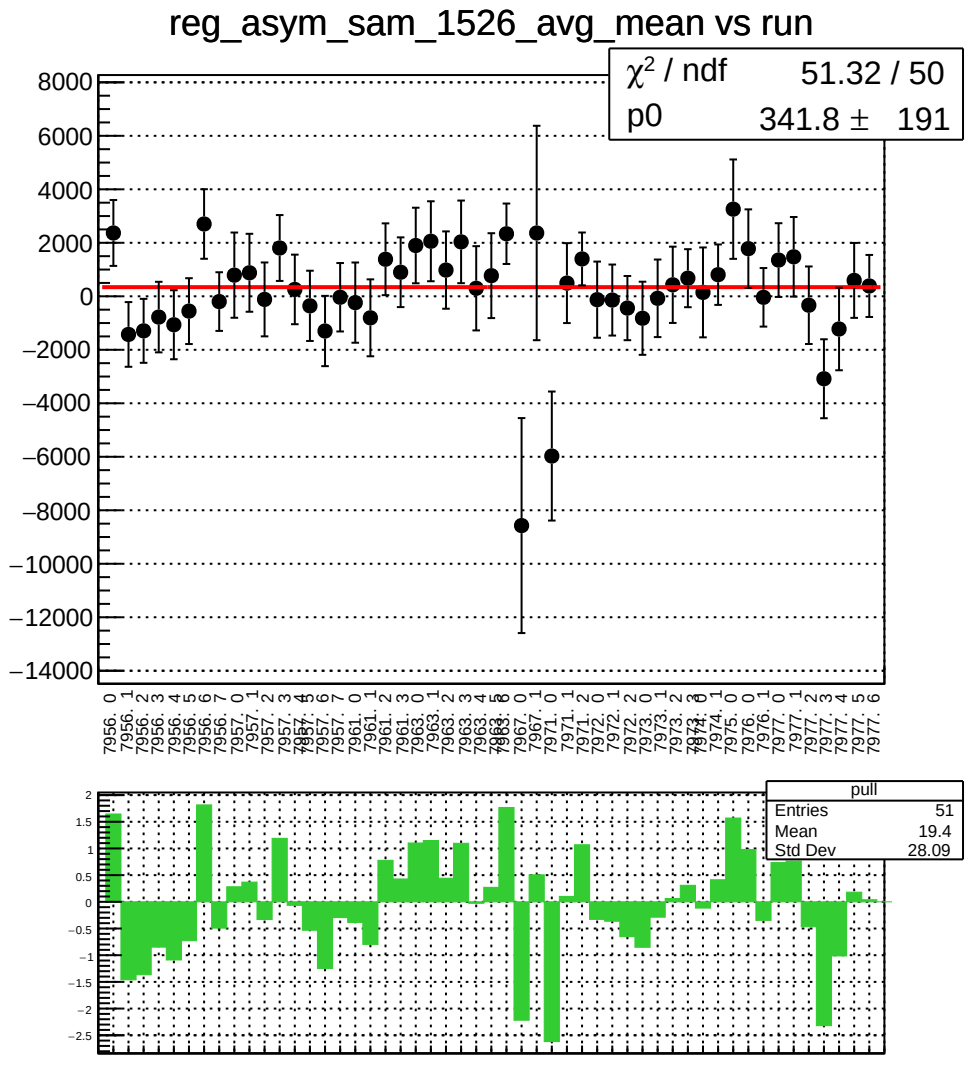
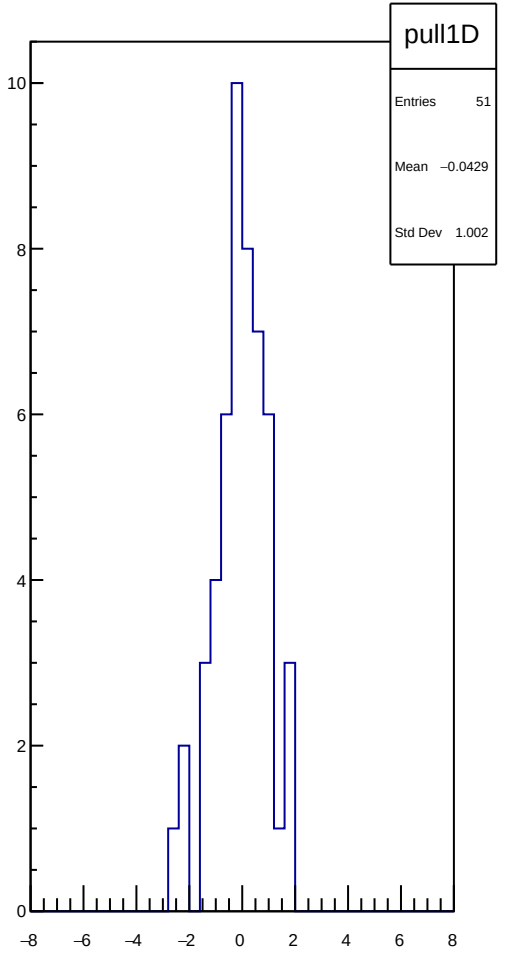
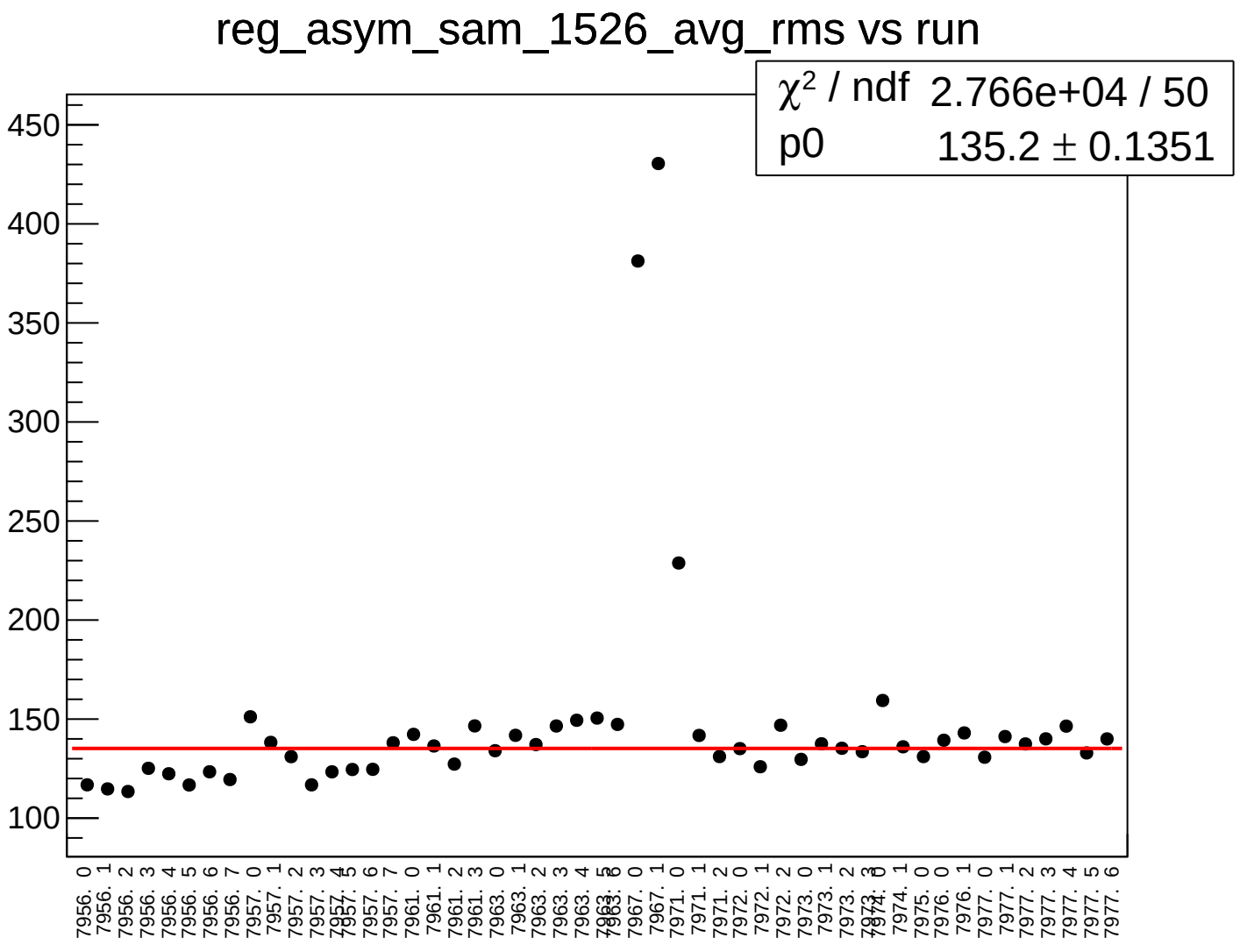
7977. 5
7977. 6


reg_asym_sam_1526_avg_mean vs run
χ² / ndf 51.32 / 50
p0 341.8 ± 191
pull
Entries 51
Mean 19.4
Std Dev 28.09


pull1D
Entries 51
Mean −0.0429
Std Dev 1.002


reg_asym_sam_1526_avg_rms vs run
χ² / ndf 2.766e+04 / 50
p0 135.2 ± 0.1351
450
400
350
300
250
200
150
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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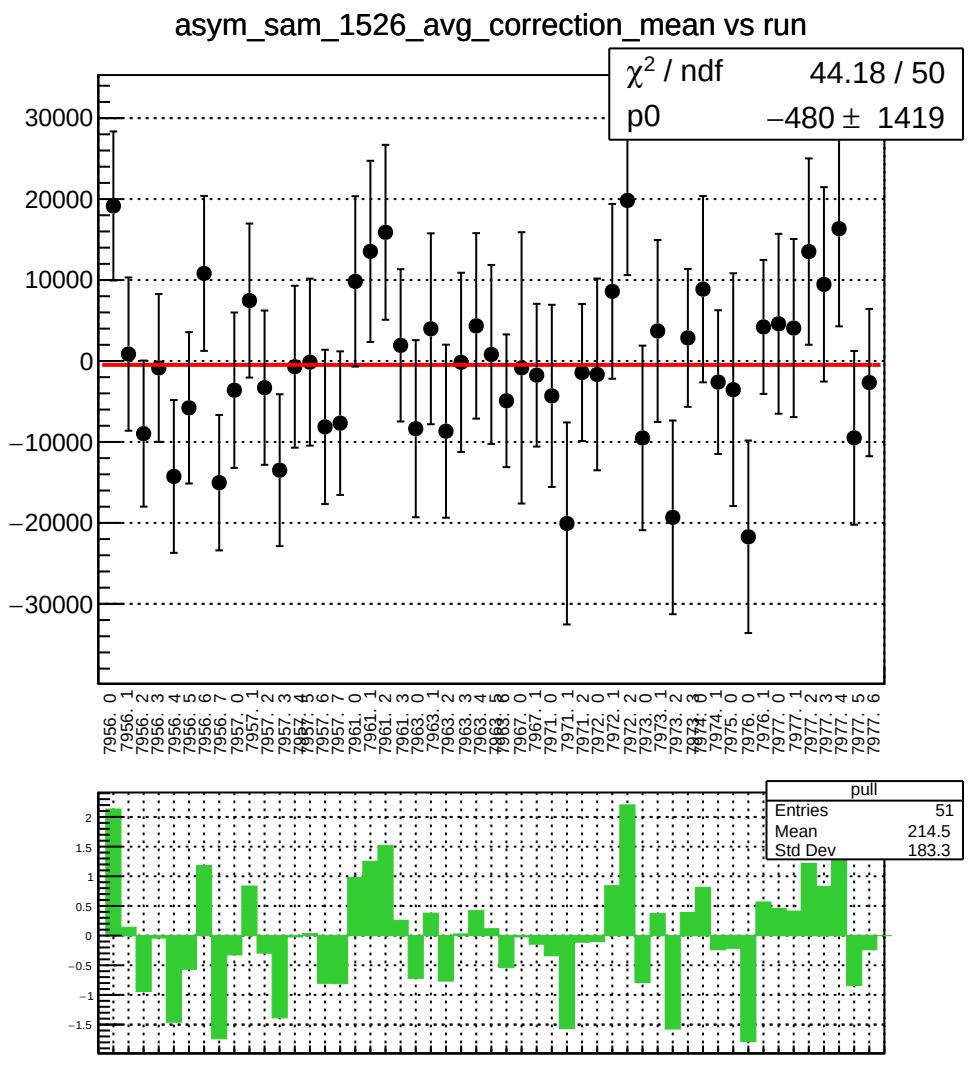
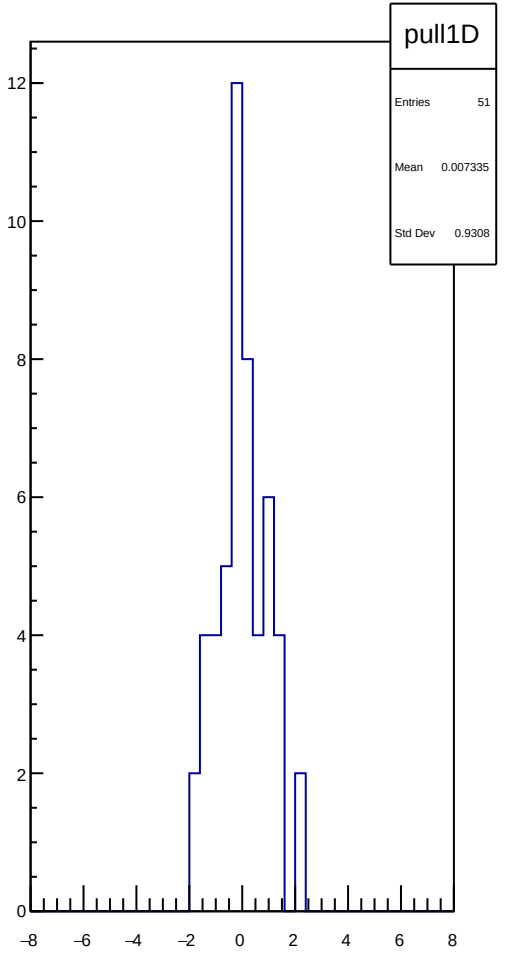
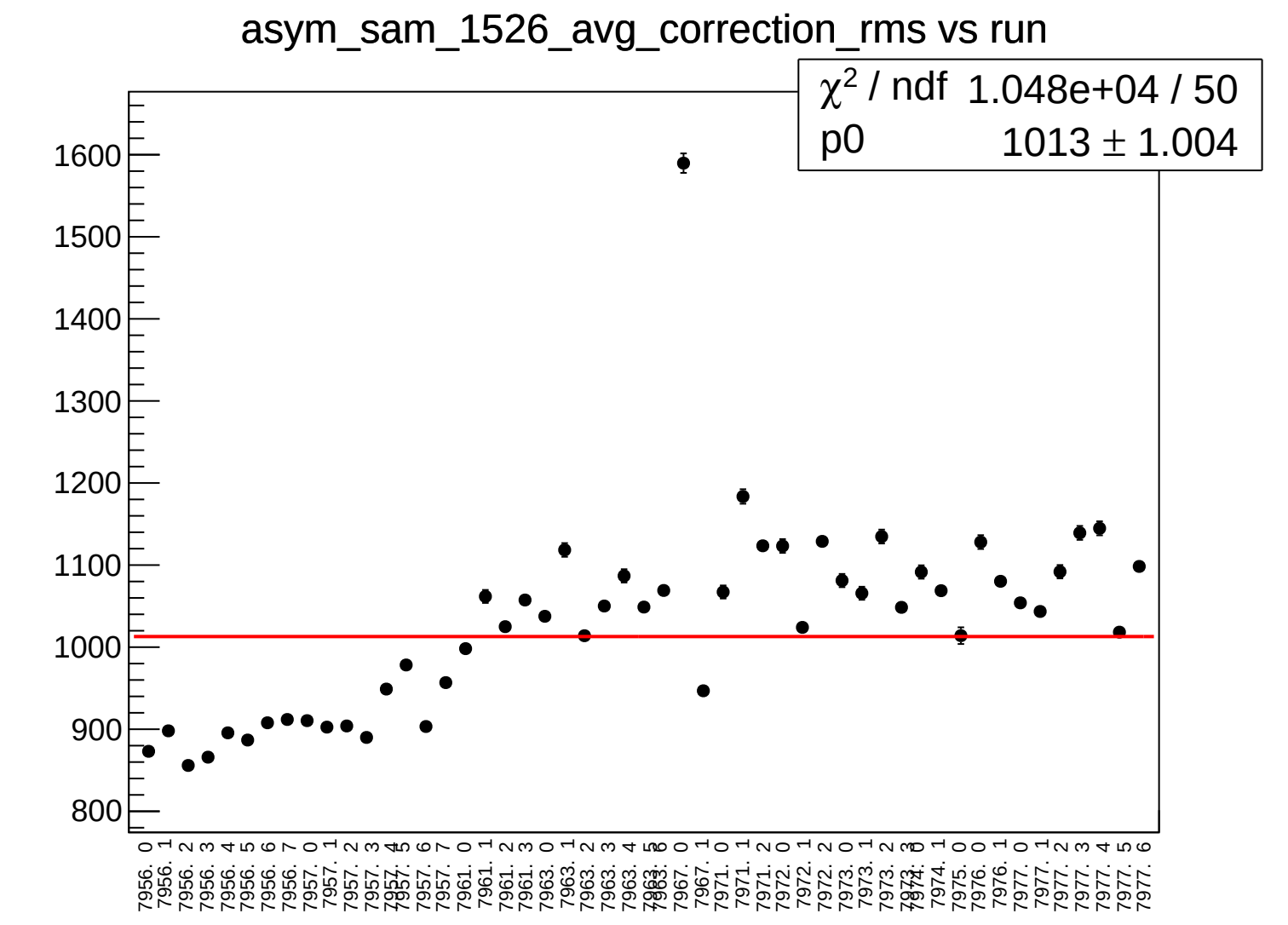
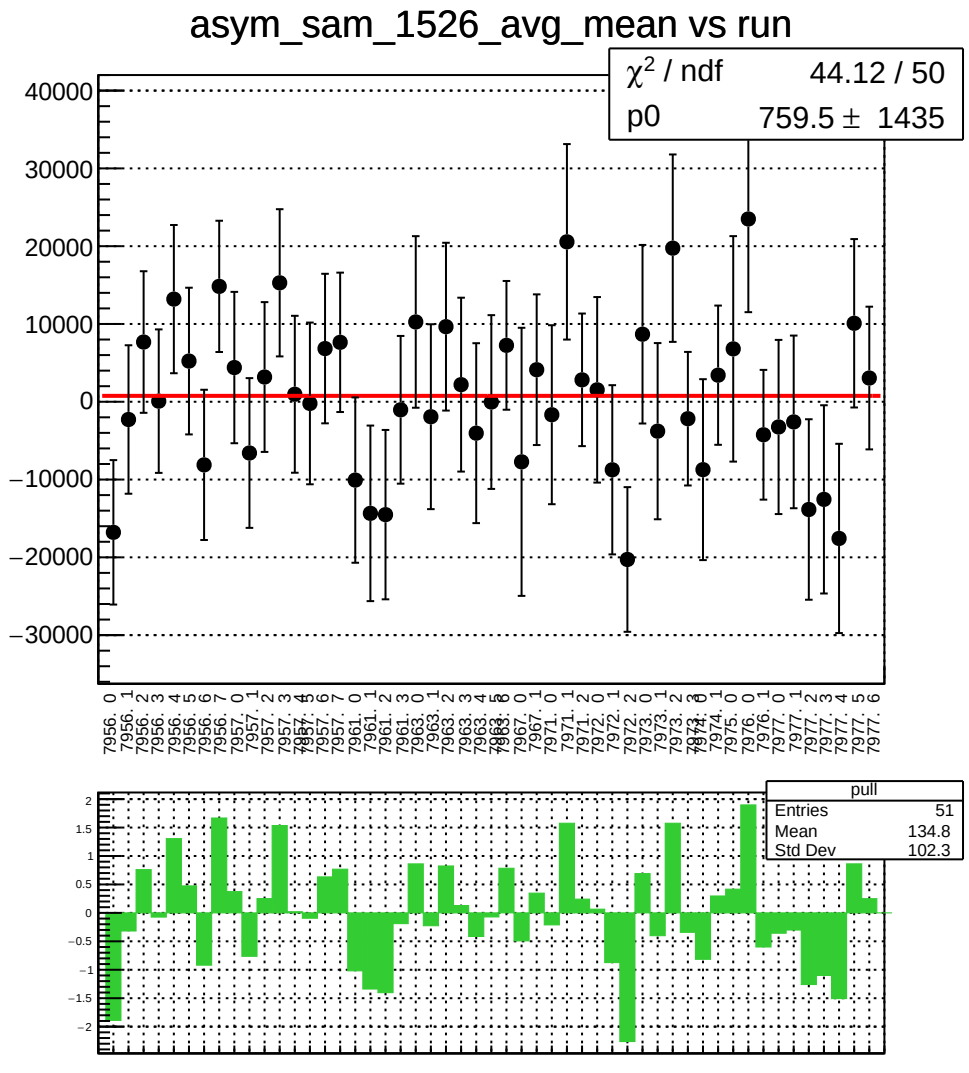
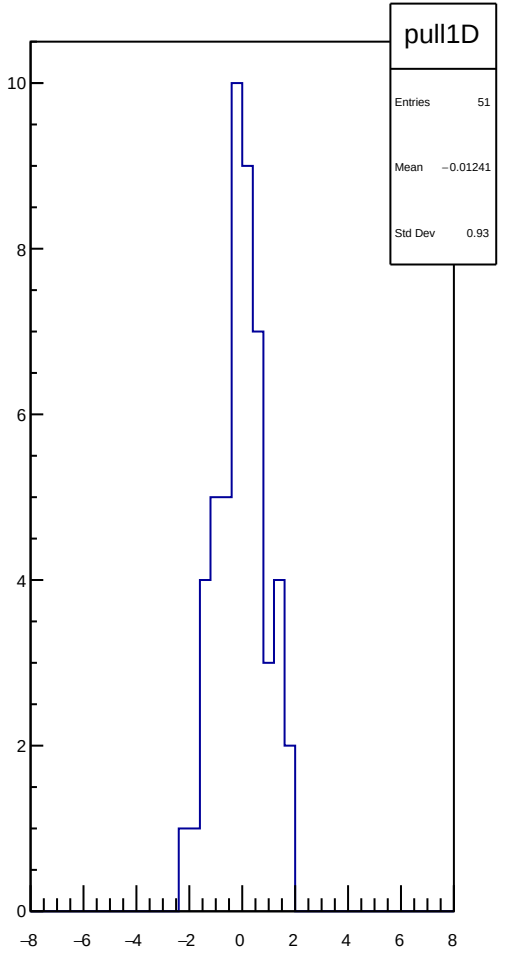
7977. 5
7977. 6

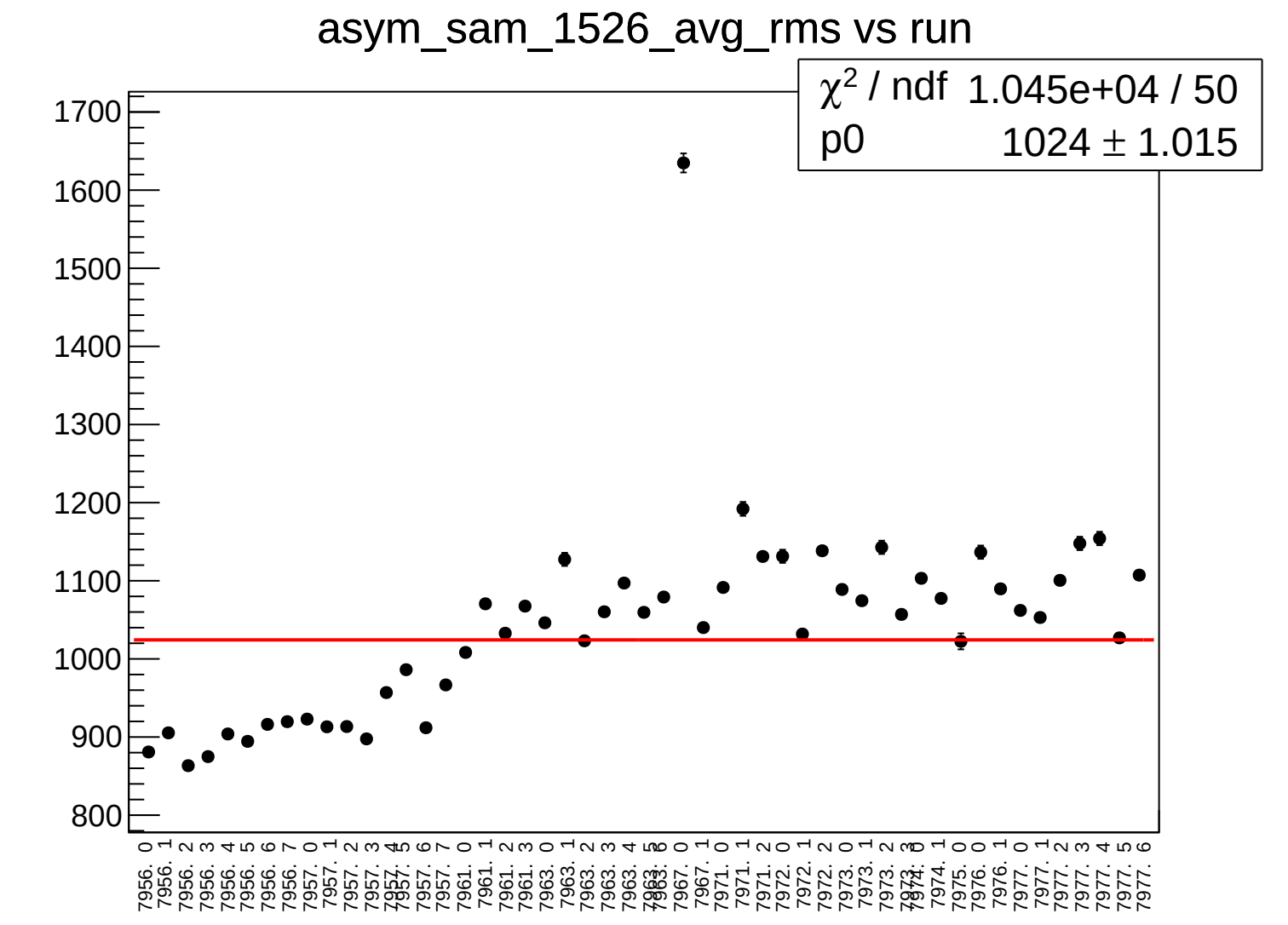

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 44.18 / 50
p0 −480 ± 1419
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 214.5
Std Dev 183.3
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean 0.007335
Std Dev 0.9308
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 1.048e+04 / 50
p0 1013 ± 1.004
1600
1500
1400
1300
1200
1100
1000
900
800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_1526_avg_mean vs run
χ^2 / ndf 44.12 / 50
p0 759.5 ± 1435
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 134.8
Std Dev 102.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.01241
Std Dev 0.93
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_rms vs run
χ² / ndf 1.045e+04 / 50
p0 1024 ± 1.015
1700
1600
1500
1400
1300
1200
1100
1000
900
800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
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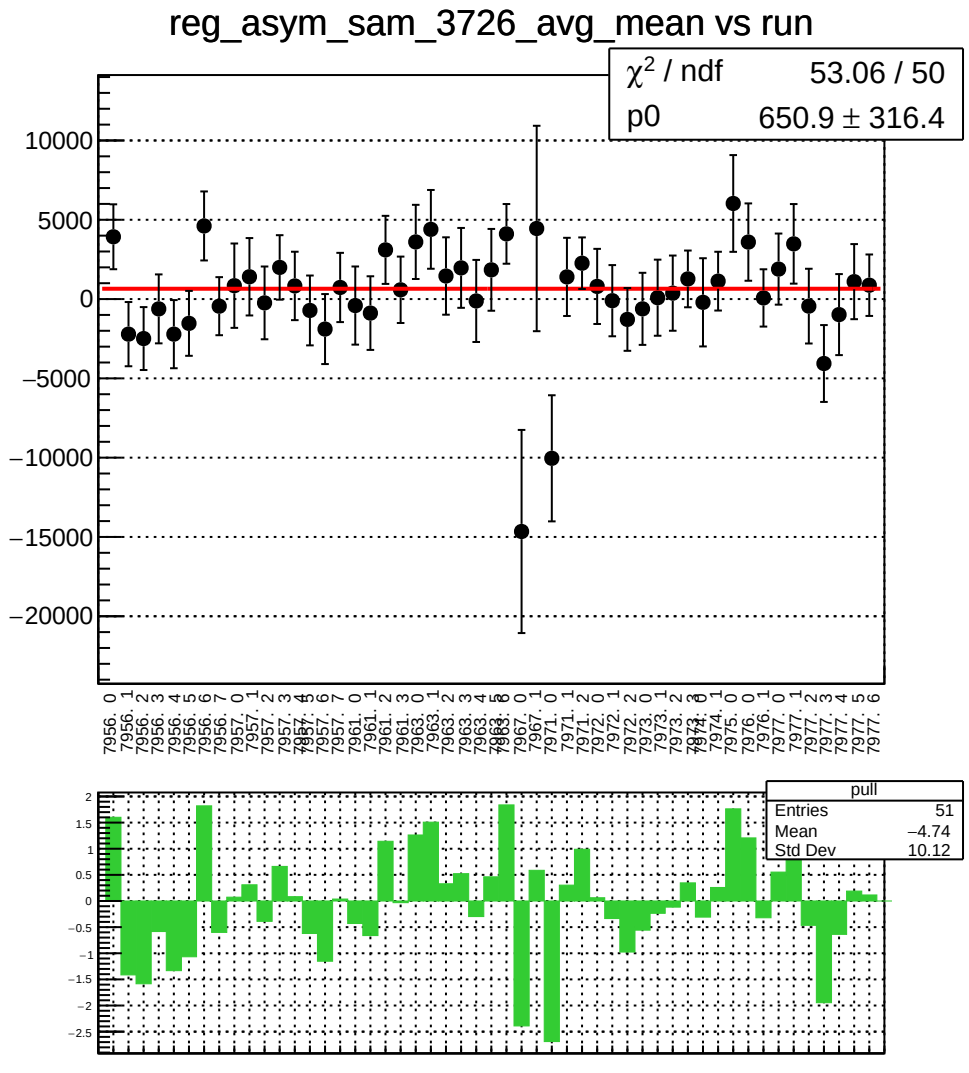
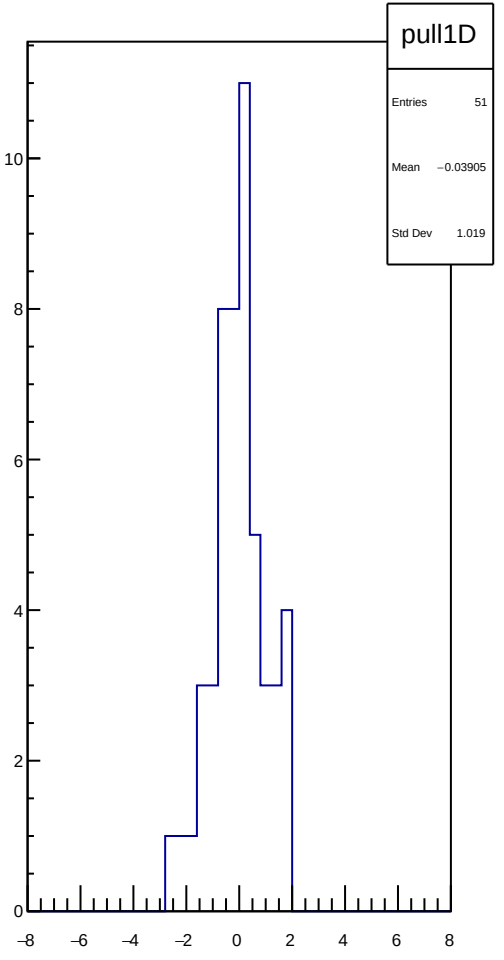
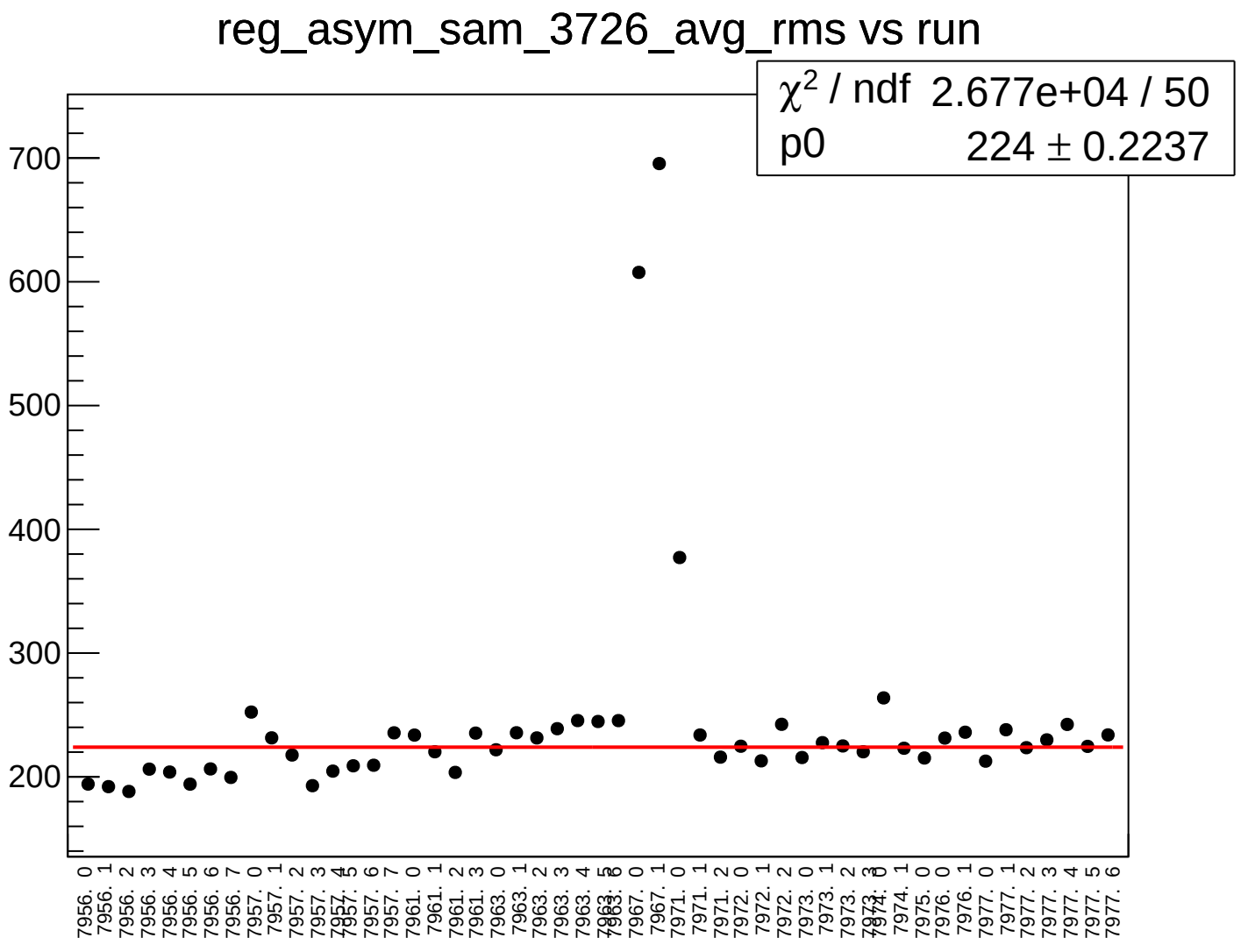
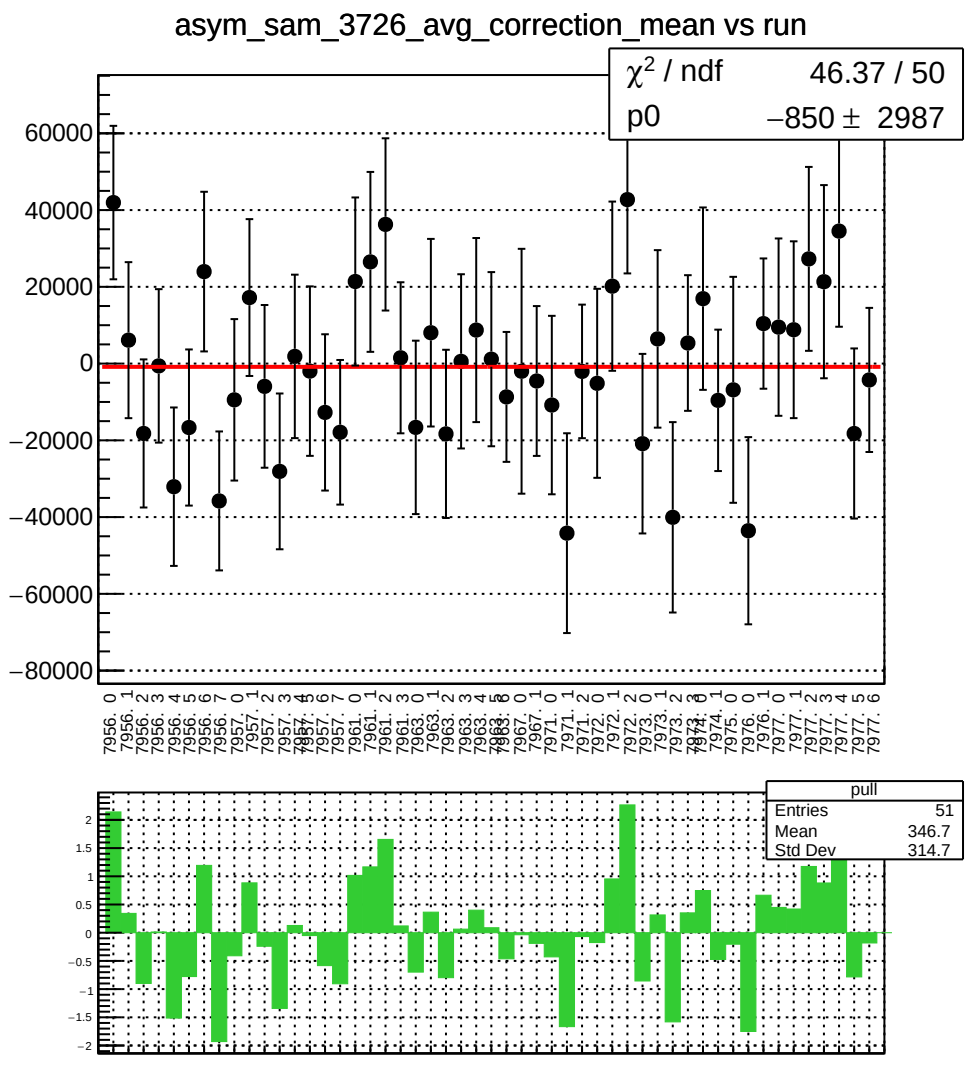
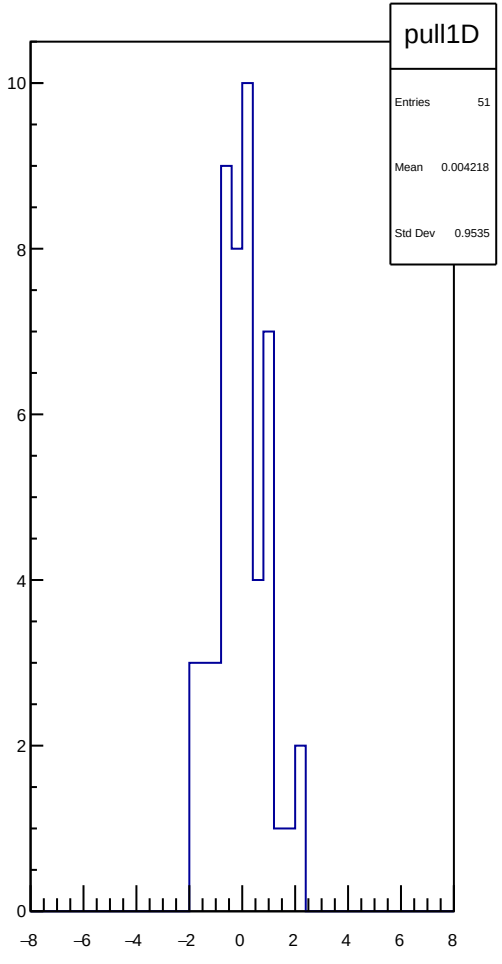
7977. 5
7977. 6

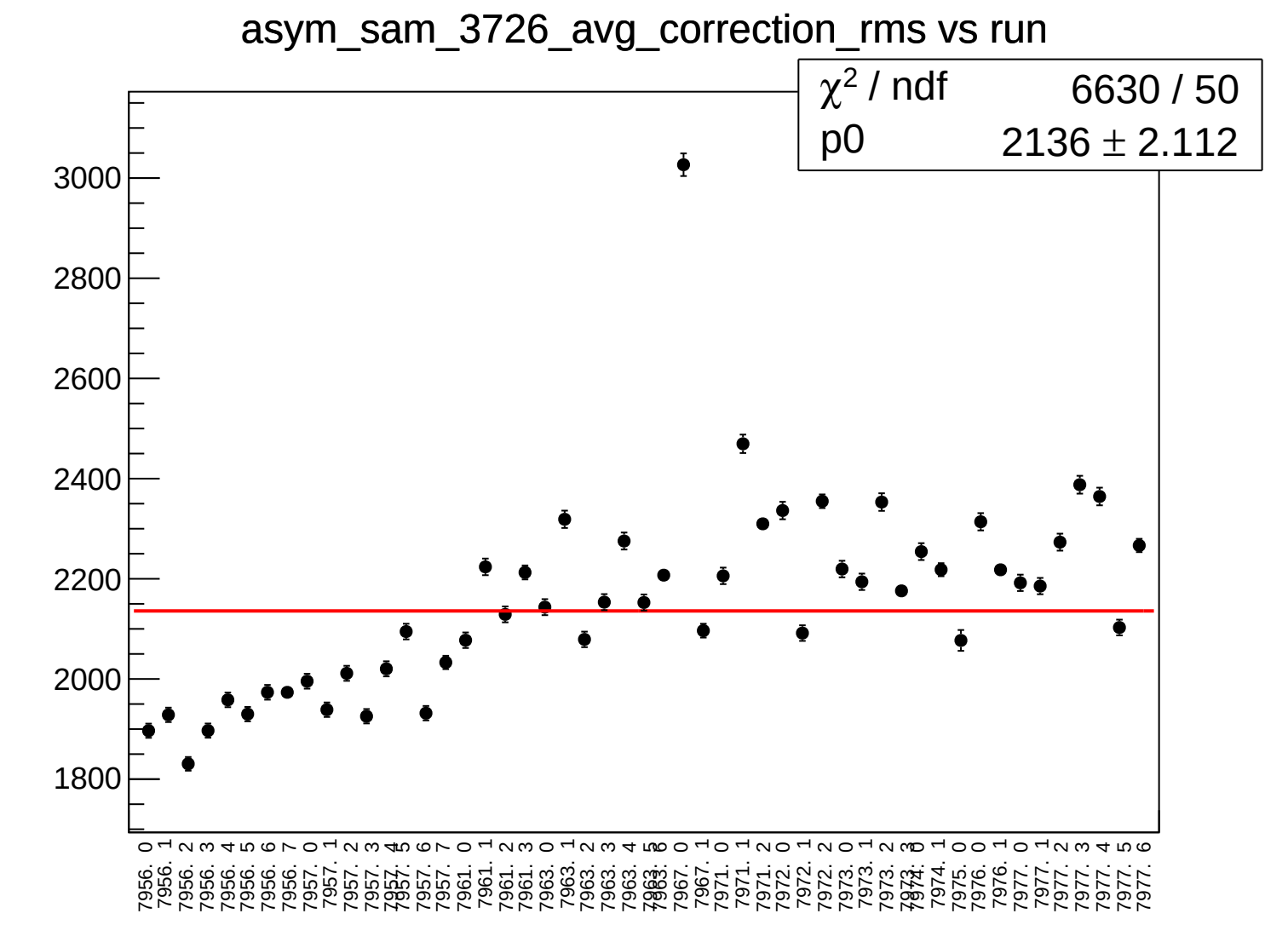

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 53.06 / 50
p0 650.9 ± 316.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 51
Mean −4.74
Std Dev 10.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.03905
Std Dev 1.019
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_3726_avg_rms vs run
χ² / ndf 2.677e+04 / 50
p0 224 ± 0.2237
700
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_3726_avg_correction_mean vs run
χ² / ndf 46.37 / 50
p0 −850 ± 2987
pull
Entries 51
Mean 346.7
Std Dev 314.7


pull1D
Entries 51
Mean 0.004218
Std Dev 0.9535


asym_sam_3726_avg_correction_rms vs run
χ² / ndf 6630 / 50
p0 2136 ± 2.112
3000
2800
2600
2400
2200
2000
1800
17956. 0
17956. 1
17956. 2
17956. 3
17956. 4
17956. 5
17956. 6
17956. 7
17957. 0
17957. 1
17957. 2
17957. 3
17957. 4
17957. 5
17957. 6
17957. 7
17961. 0
17961. 1
17961. 2
17961. 3
17963. 0
17963. 1
17963. 2
17963. 3
17963. 4
17967. 0
17967. 1
17971. 0
17971. 1
17971. 2
17972. 0
17972. 1
17972. 2
17973. 0
17973. 1
17973. 2
17974. 1
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17977. 0
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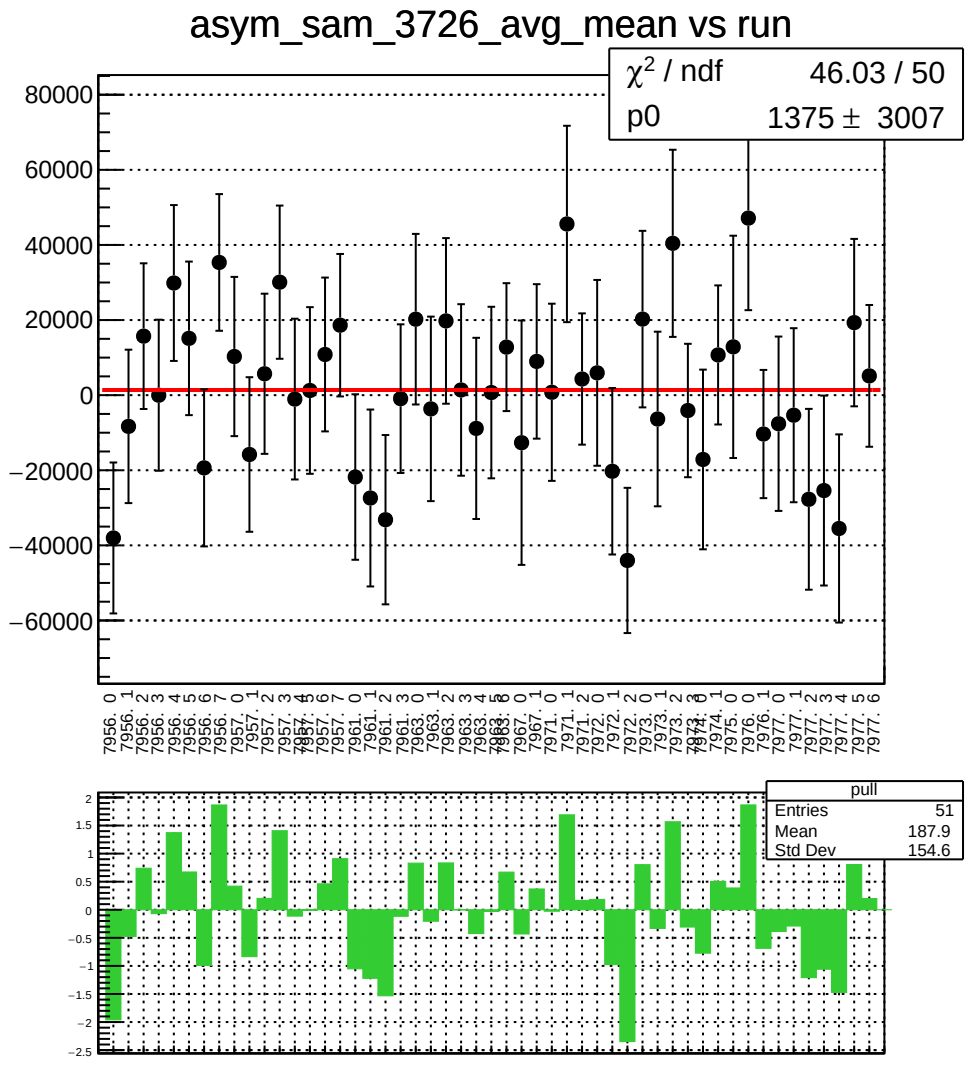
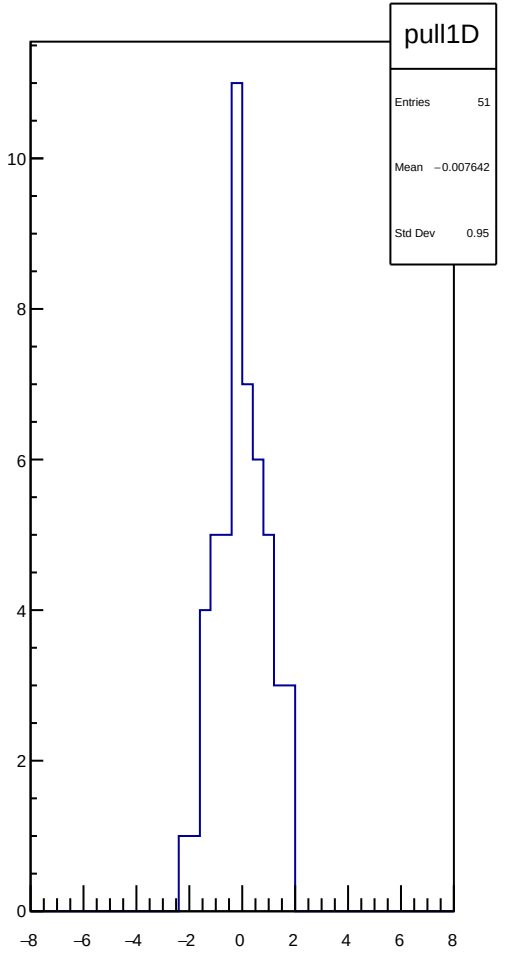
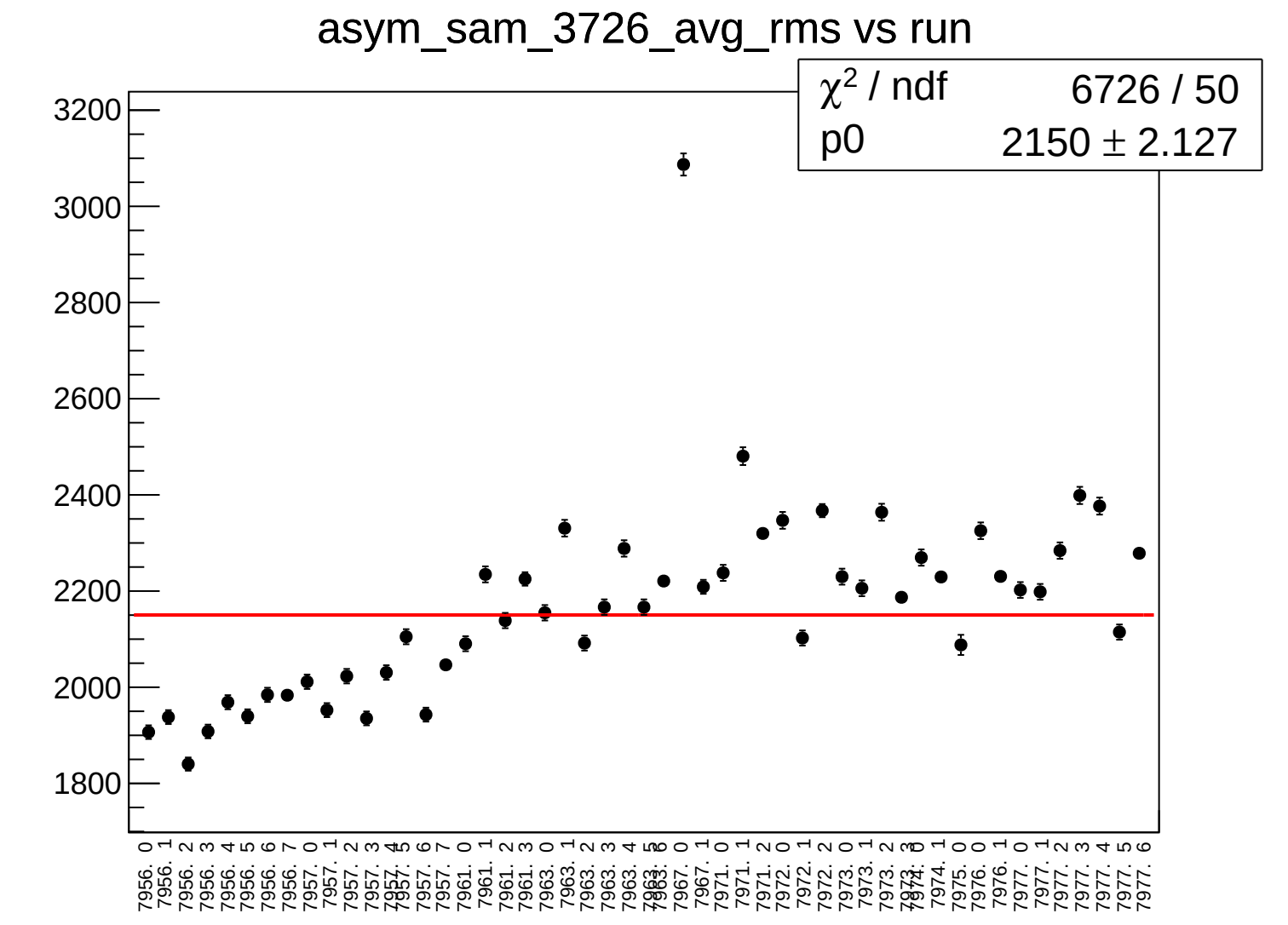
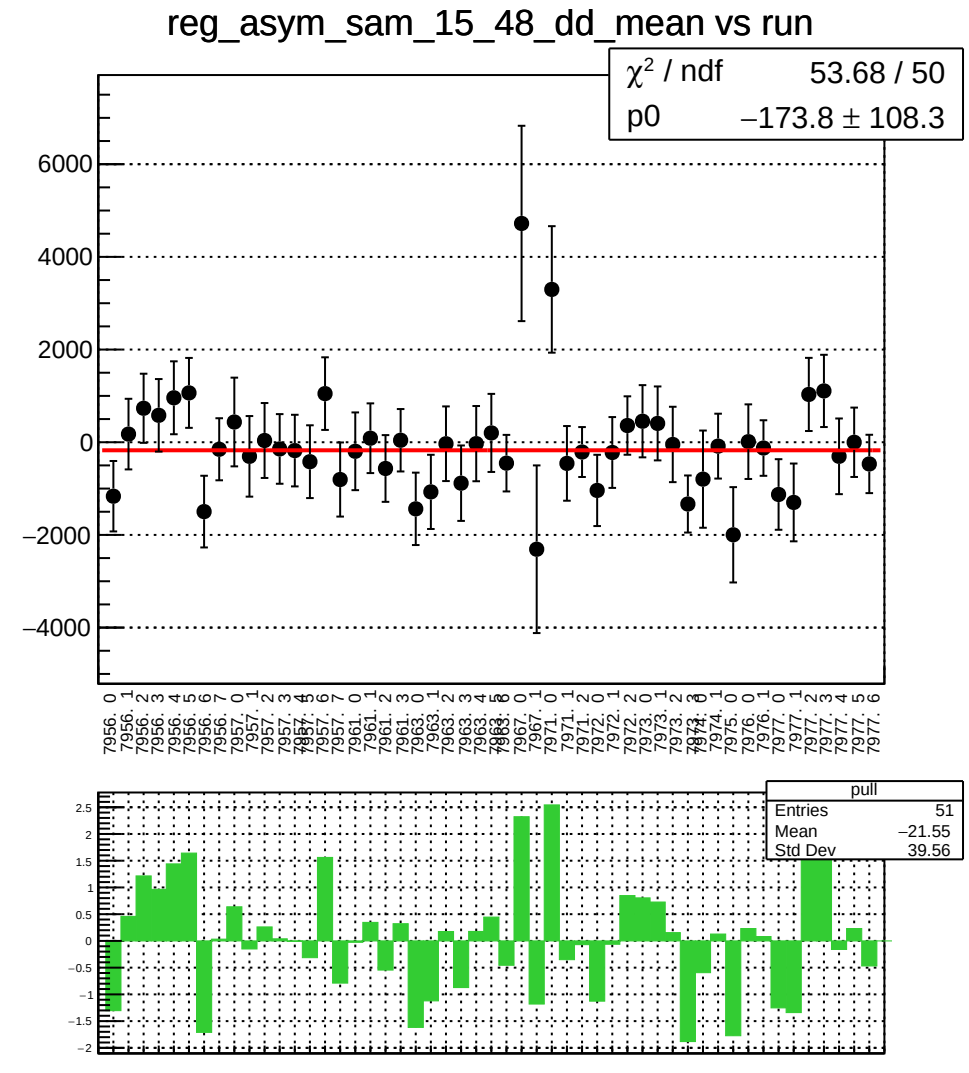
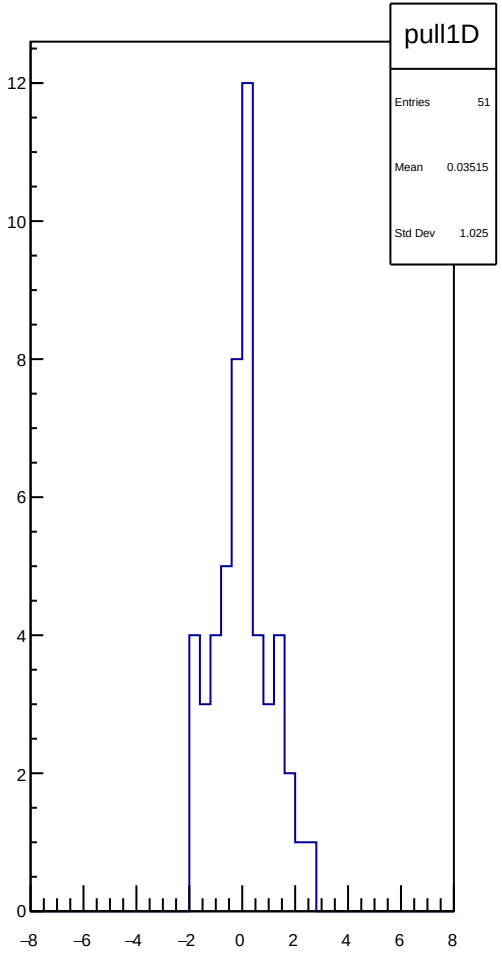
17977. 5
17977. 6

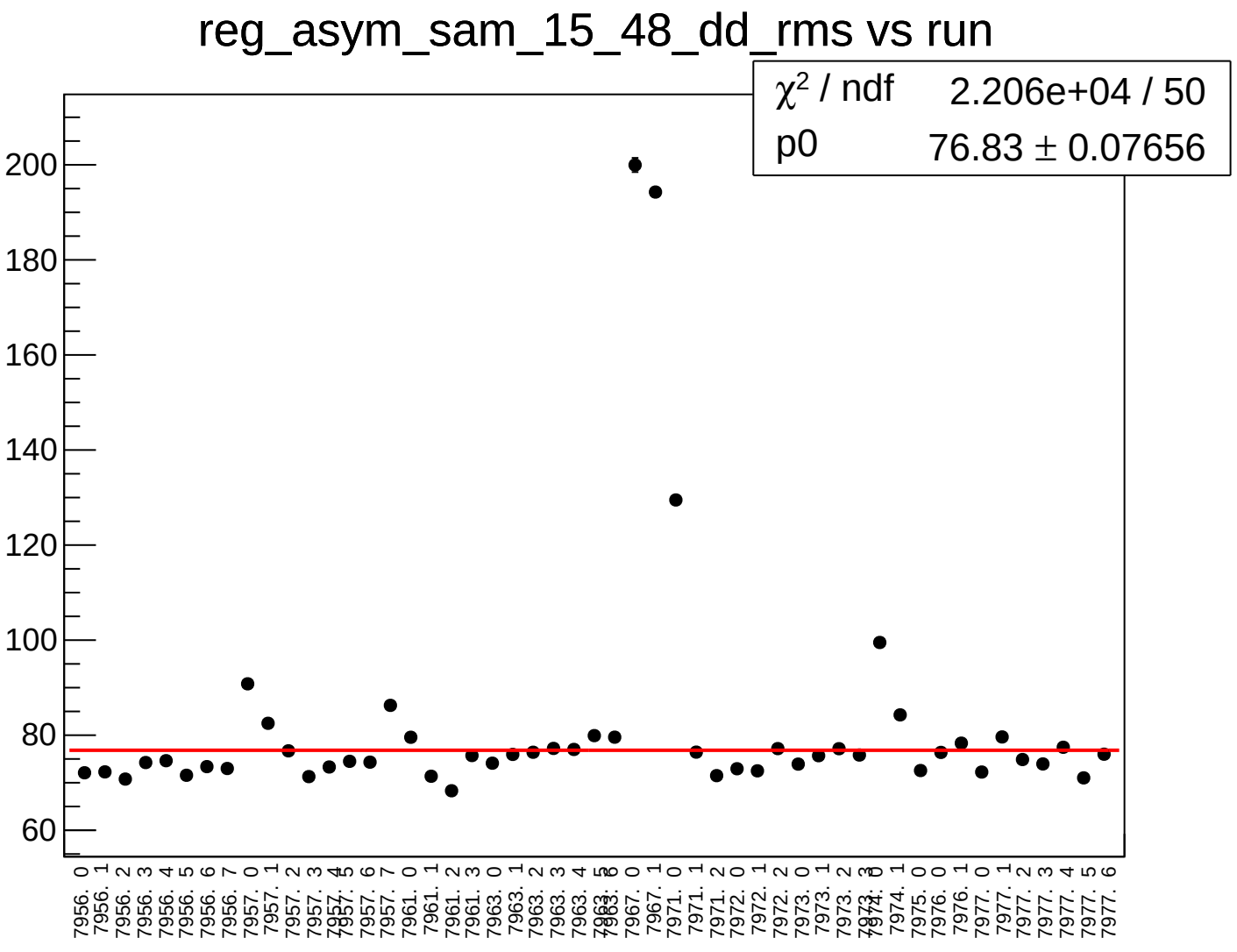

asym_sam_3726_avg_mean vs run
χ² / ndf 46.03 / 50
p0 1375 ± 3007
pull
Entries 51
Mean 187.9
Std Dev 154.6


pull1D
Entries 51
Mean −0.007642
Std Dev 0.95


asym_sam_3726_avg_rms vs run
χ² / ndf 6726 / 50
p0 2150 ± 2.127
3200
3000
2800
2600
2400
2200
2000
1800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 53.68 / 50
p0 −173.8 ± 108.3
pull
Entries 51
Mean −21.55
Std Dev 39.56


pull1D
Entries 51
Mean 0.03515
Std Dev 1.025


reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.206e+04 / 50
p0 76.83 ± 0.07656
200
180
160
140
120
100
80
60
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7977. 1
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7977. 3
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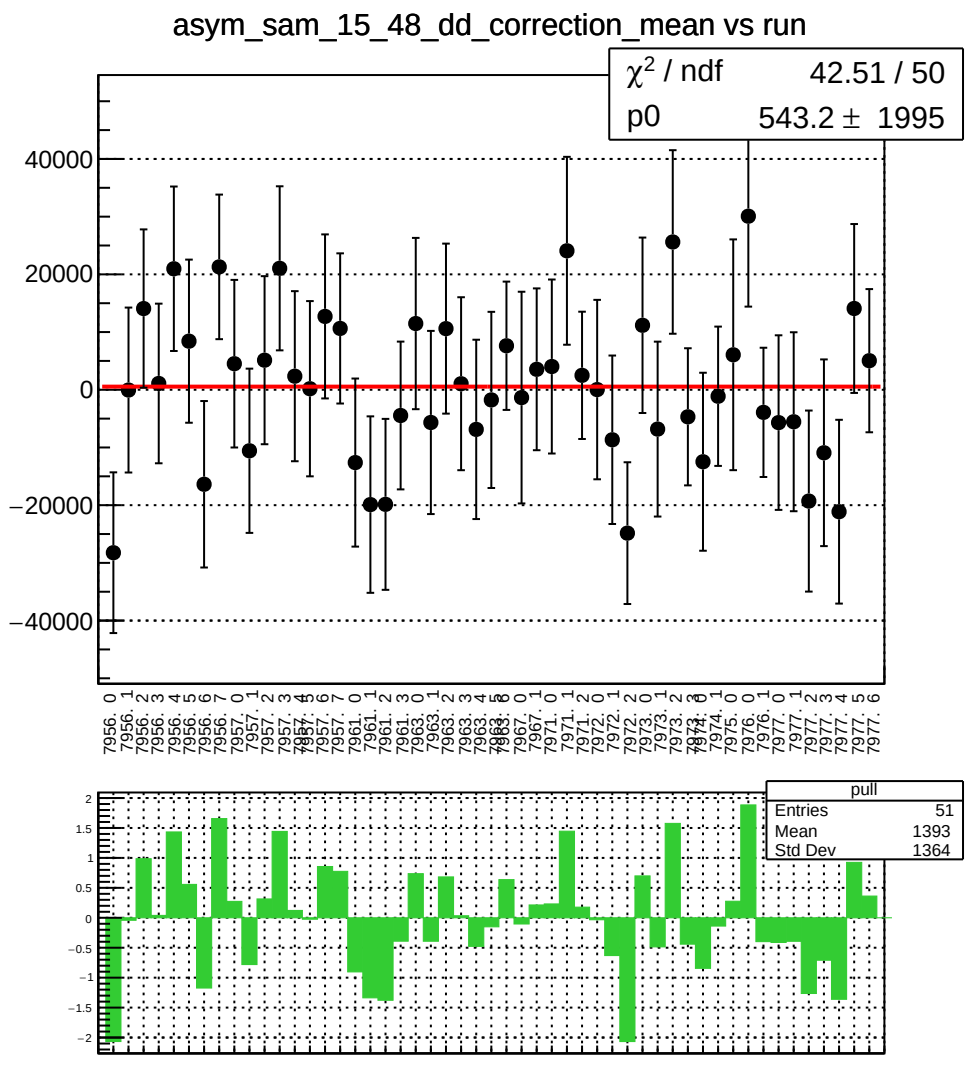
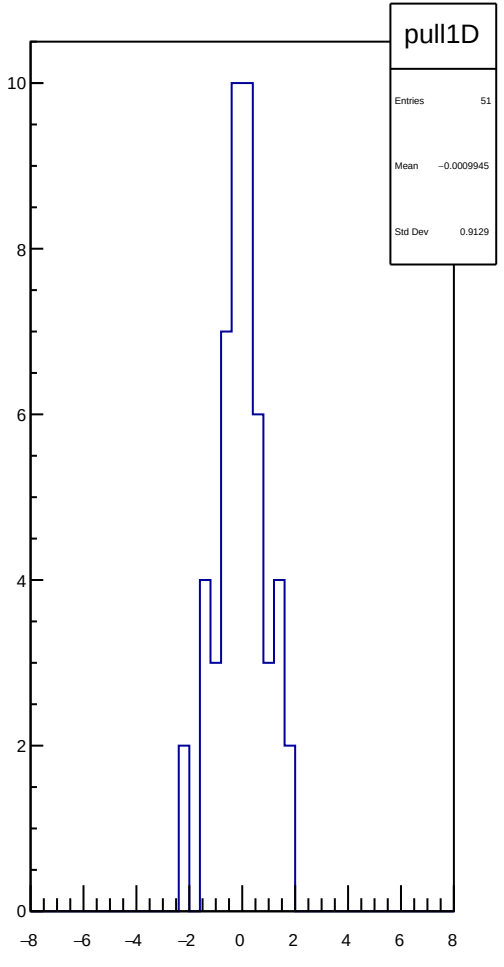
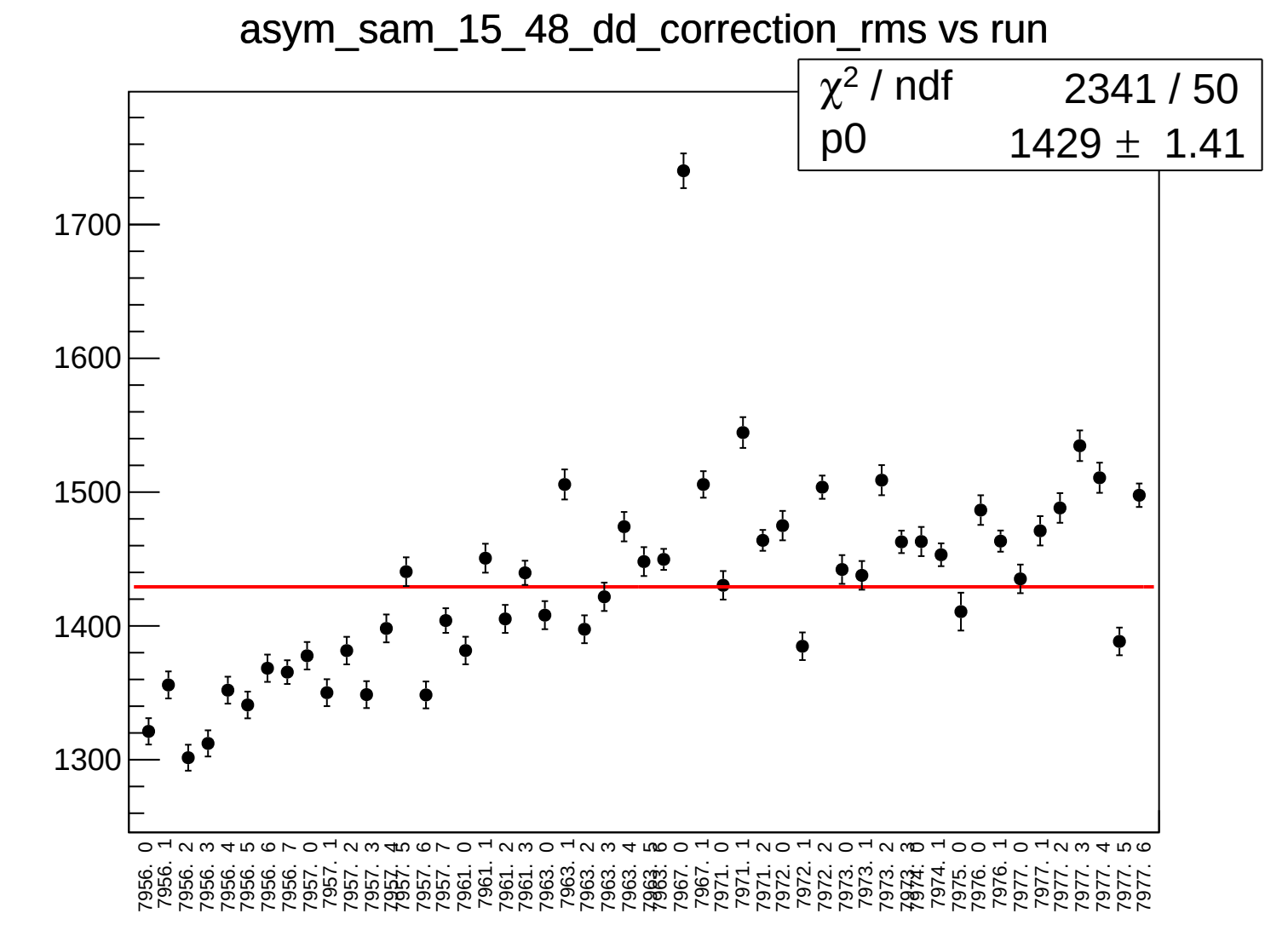
7977. 5
7977. 6


asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 42.51 / 50
p0 543.2 ± 1995
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 1393
Std Dev 1364
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.0009945
Std Dev 0.9129
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 2341 / 50
p0 1429 ± 1.41
1700
1600
1500
1400
1300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
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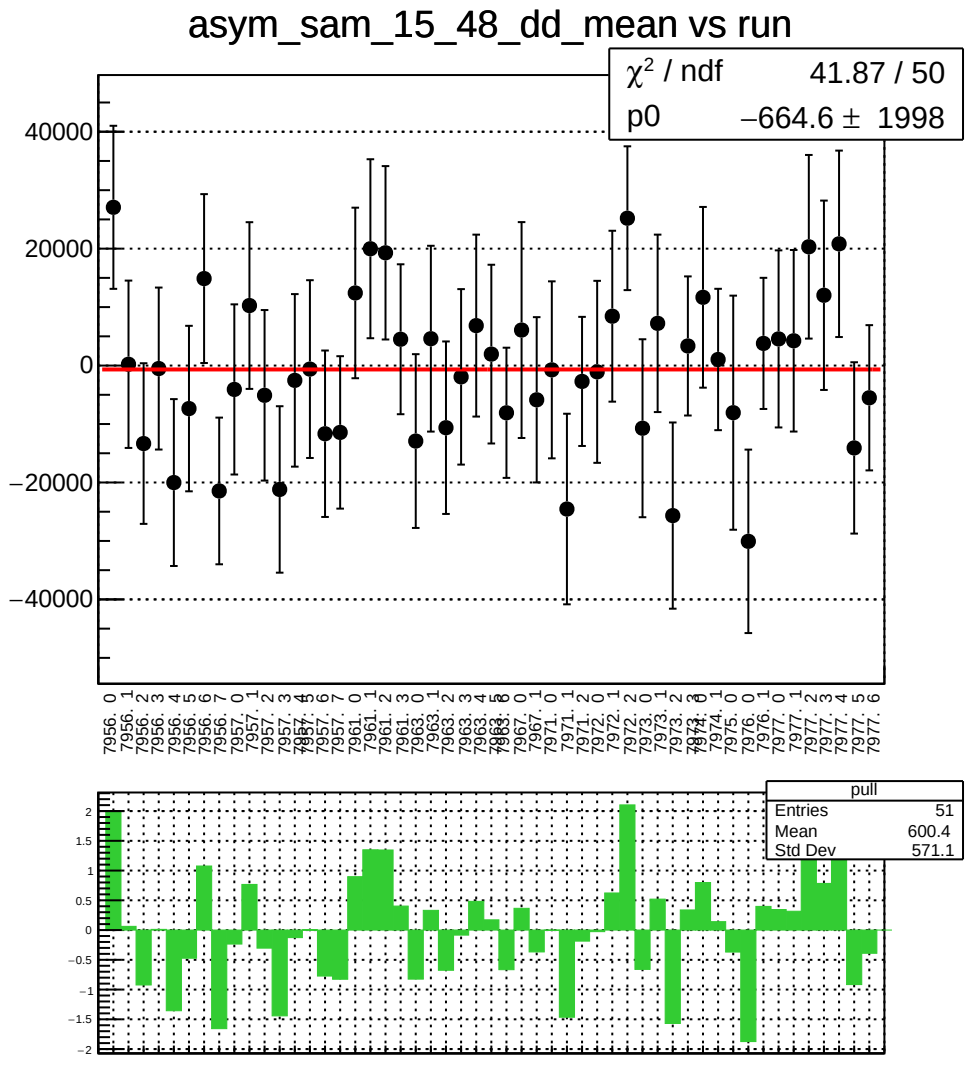
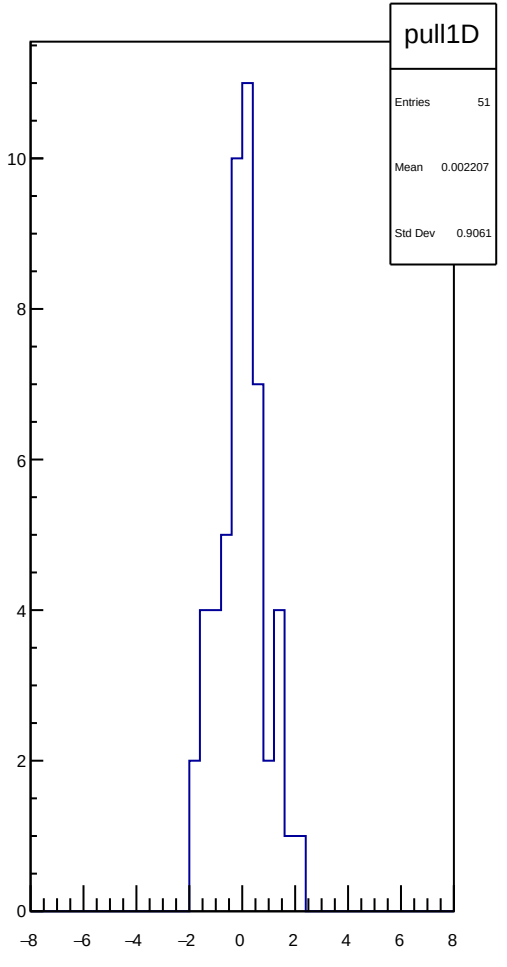
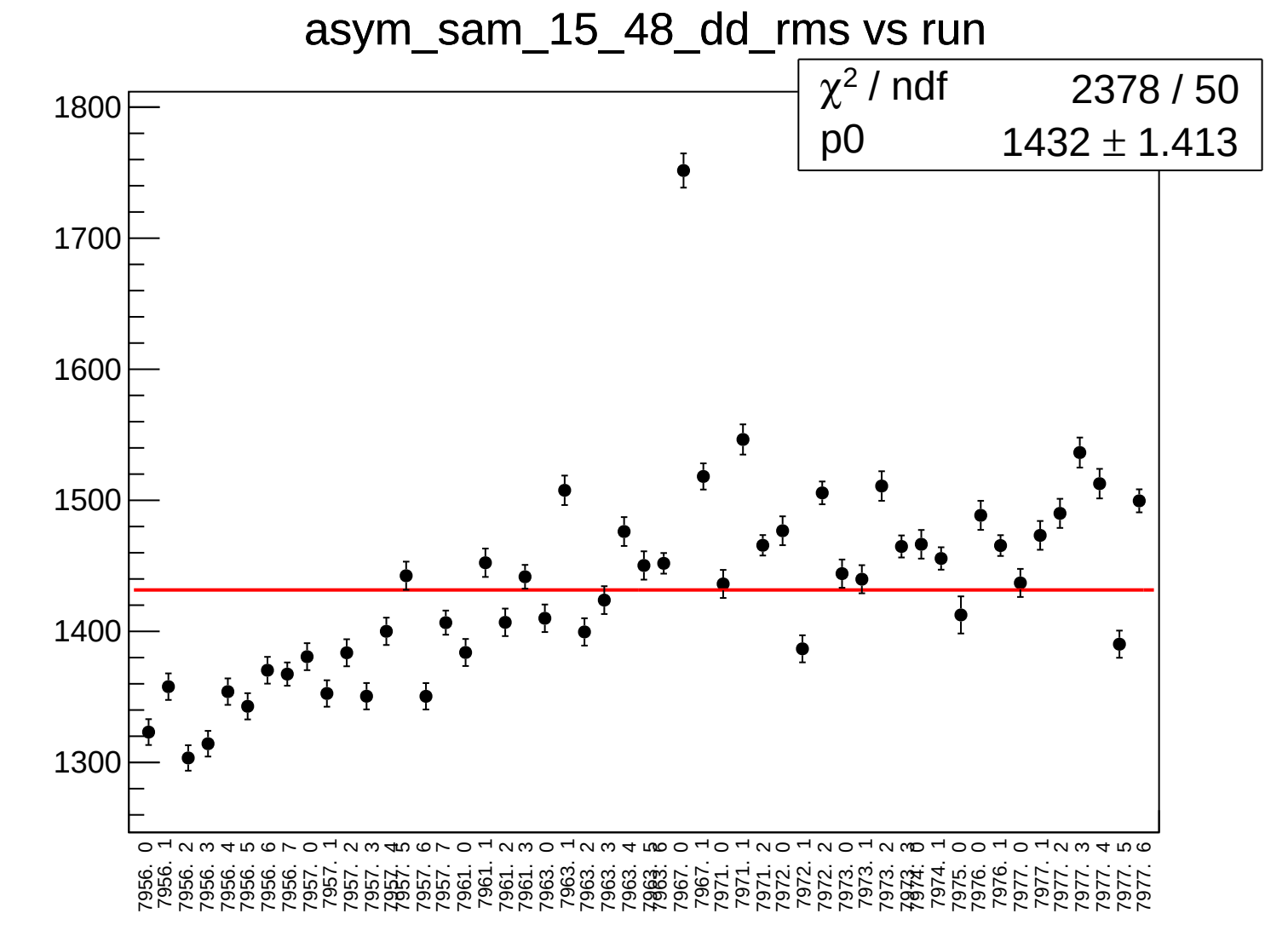
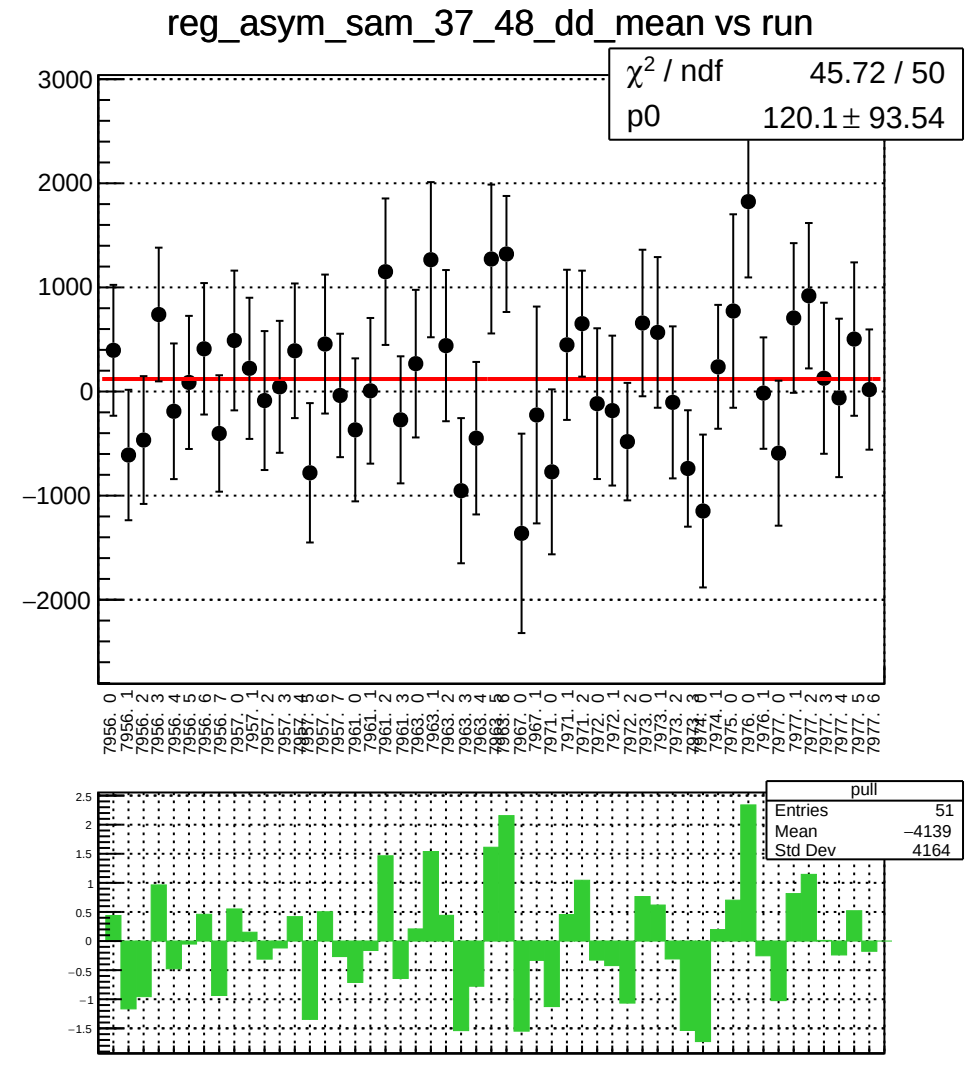
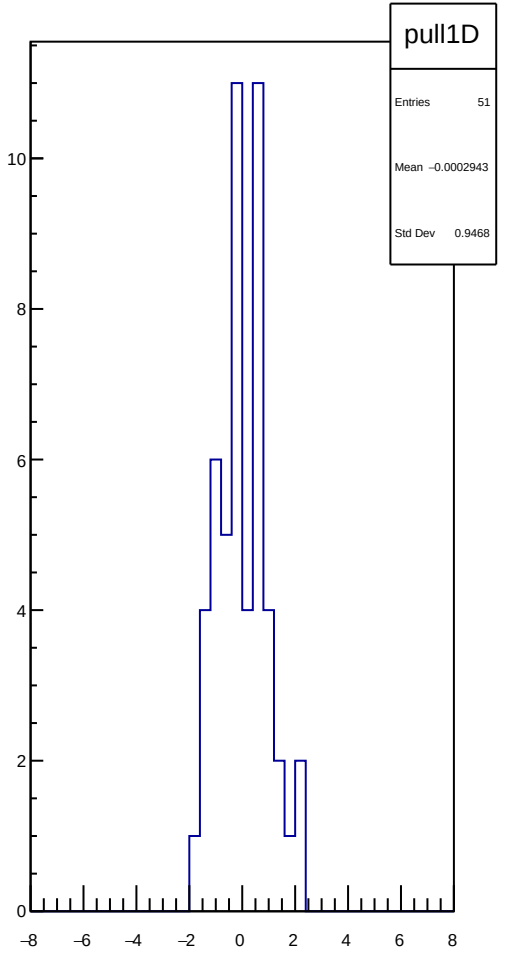
7977. 4
7977. 5
7977. 6

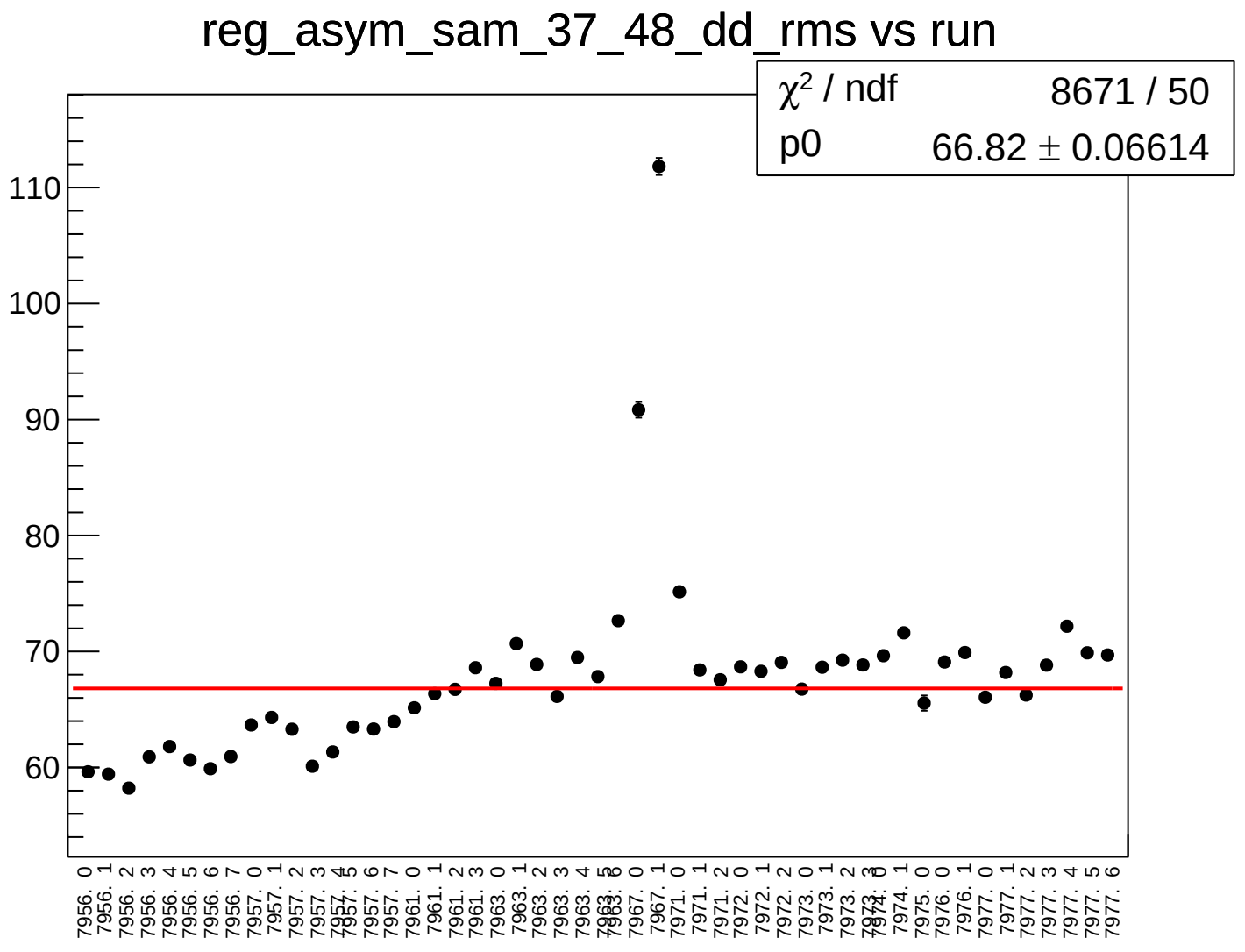

asym_sam_15_48_dd_mean vs run
χ² / ndf 41.87 / 50
p0 −664.6 ± 1998
40000
20000
0
−20000
−40000
pull
Entries 51
Mean 600.4
Std Dev 571.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

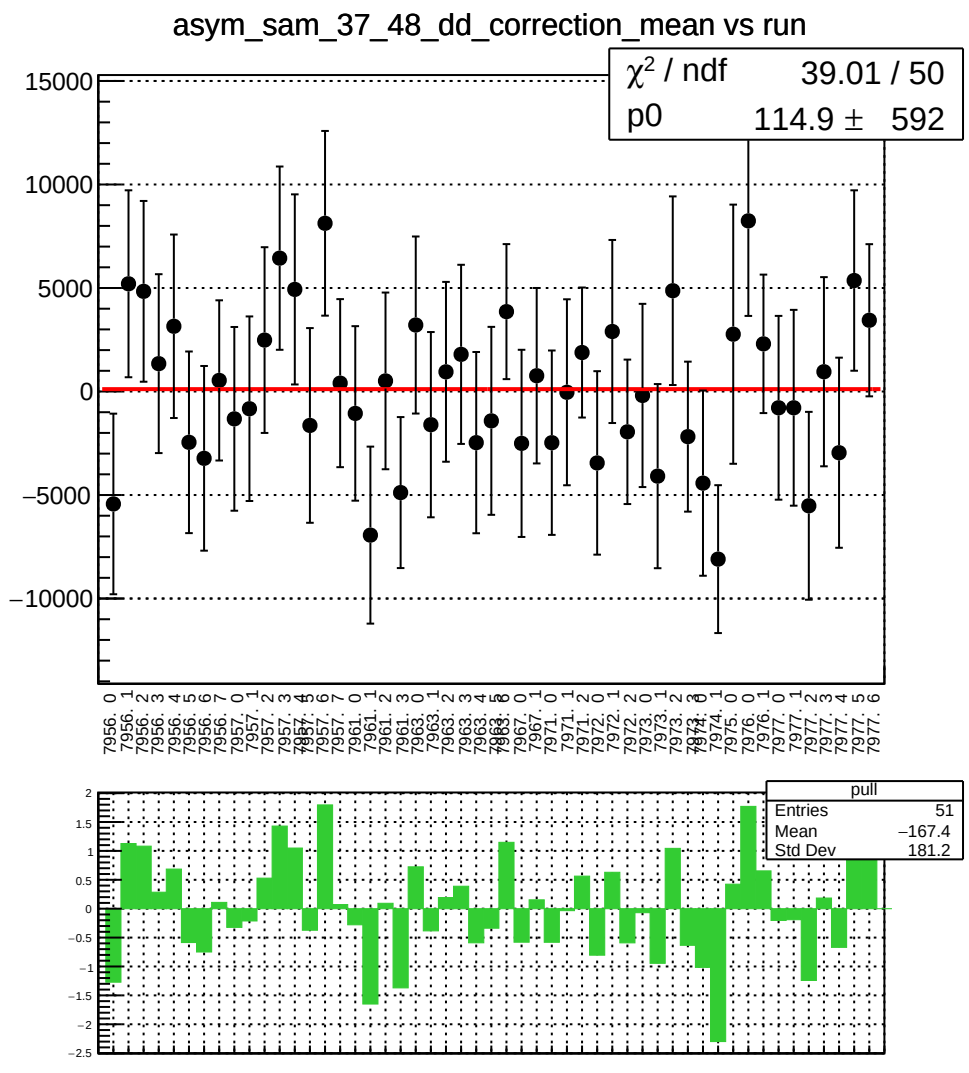

pull1D
Entries 51
Mean 0.002207
Std Dev 0.9061
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

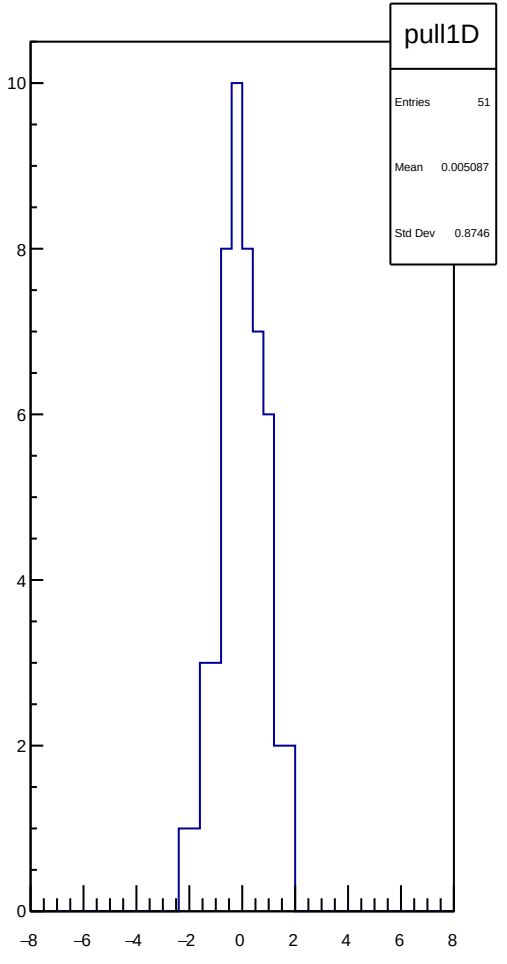

asym_sam_15_48_dd_rms vs run
χ² / ndf 2378 / 50
p0 1432 ± 1.413
1800
1700
1600
1500
1400
1300
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

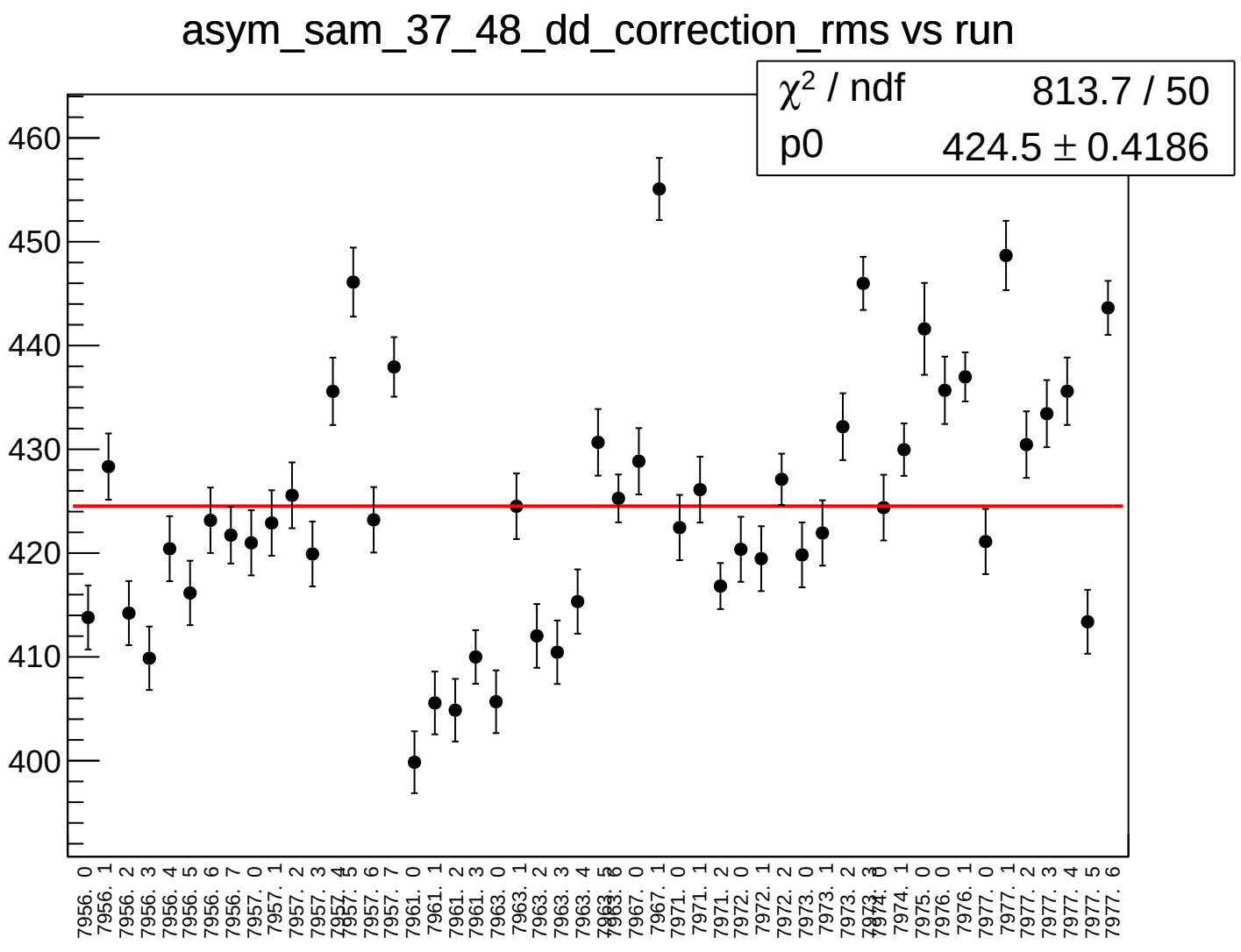

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 45.72 / 50
p0 120.1 ± 93.54
3000
2000
1000
0
−1000
−2000
pull
Entries 51
Mean −4139
Std Dev 4164
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.0002943
Std Dev 0.9468
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 8671 / 50
p0 66.82 ± 0.06614
110
100
90
80
70
60
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 39.01 / 50
p0 114.9 ± 592
15000
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −167.4
Std Dev 181.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean 0.005087
Std Dev 0.8746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 813.7 / 50
p0 424.5 ± 0.4186
460
450
440
430
420
410
400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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7976. 1
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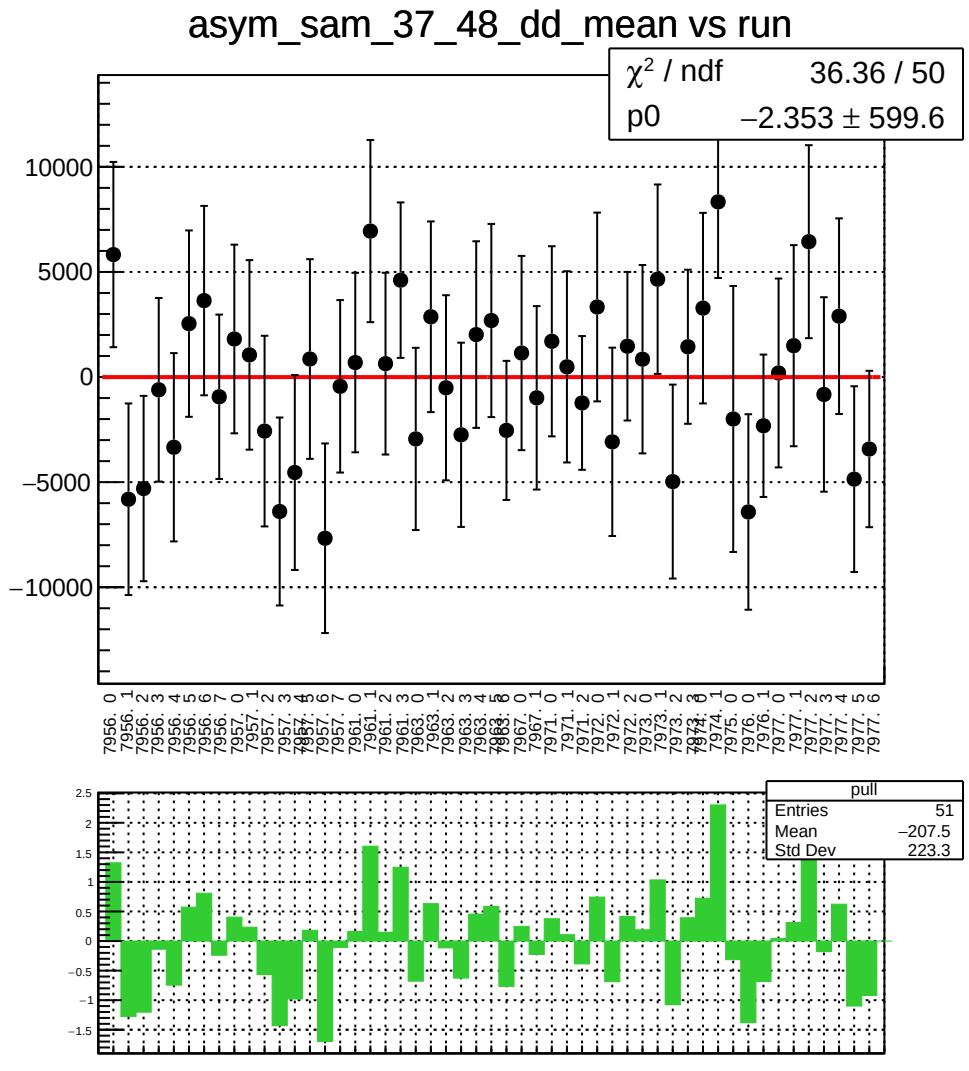
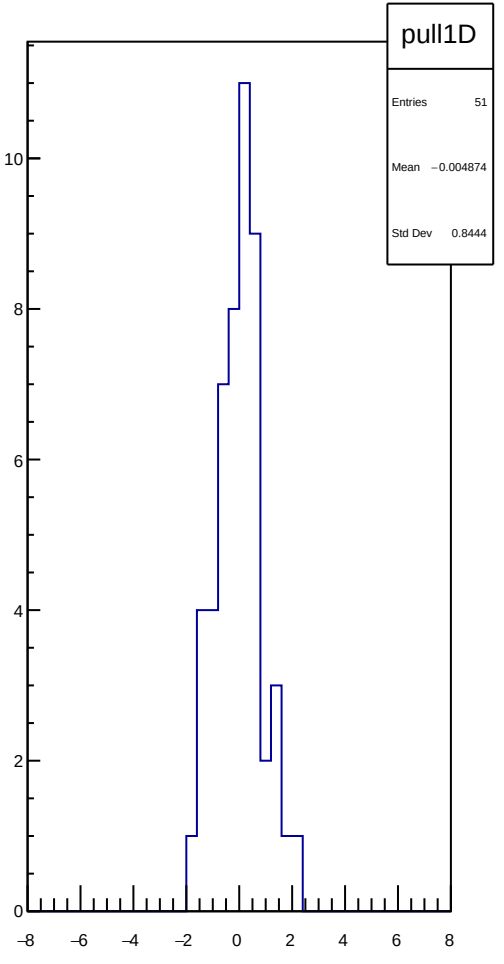
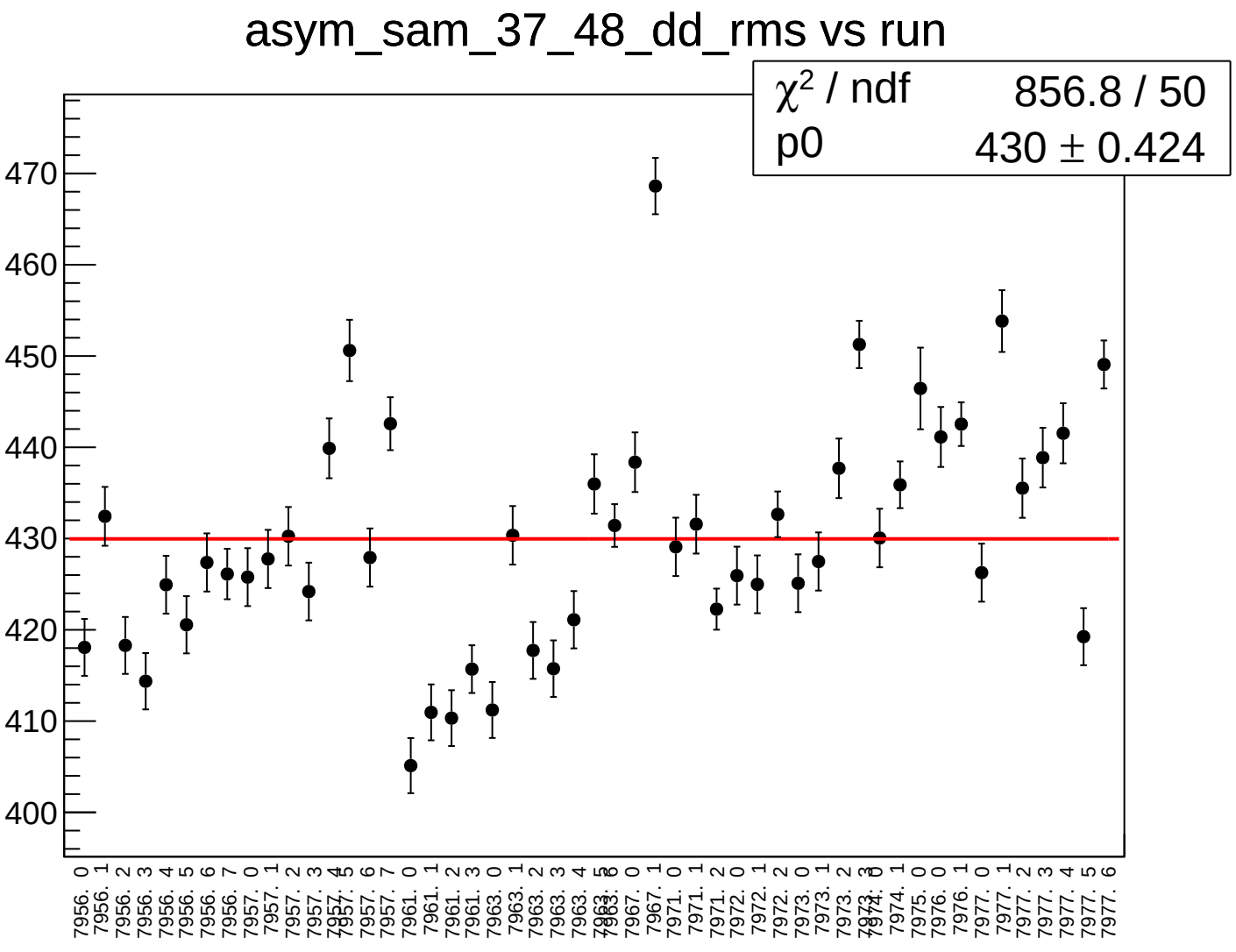
7977. 5
7977. 6


asym_sam_37_48_dd_mean vs run
χ² / ndf 36.36 / 50
p0 −2.353 ± 599.6
10000
5000
0
−5000
−10000
pull
Entries 51
Mean −207.5
Std Dev 223.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 51
Mean −0.004874
Std Dev 0.8444
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_rms vs run
χ^2 / ndf 856.8 / 50
p0 430 ± 0.424
470
460
450
440
430
420
410
400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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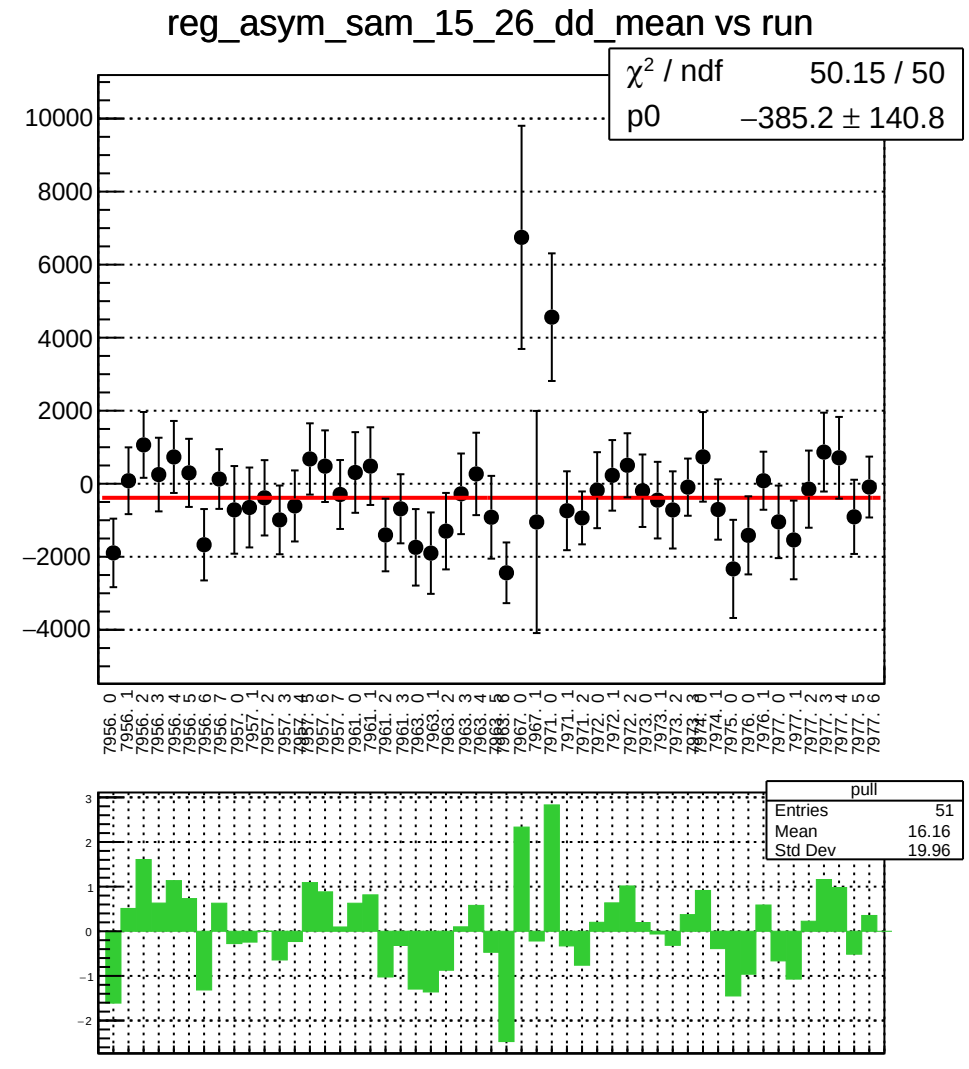
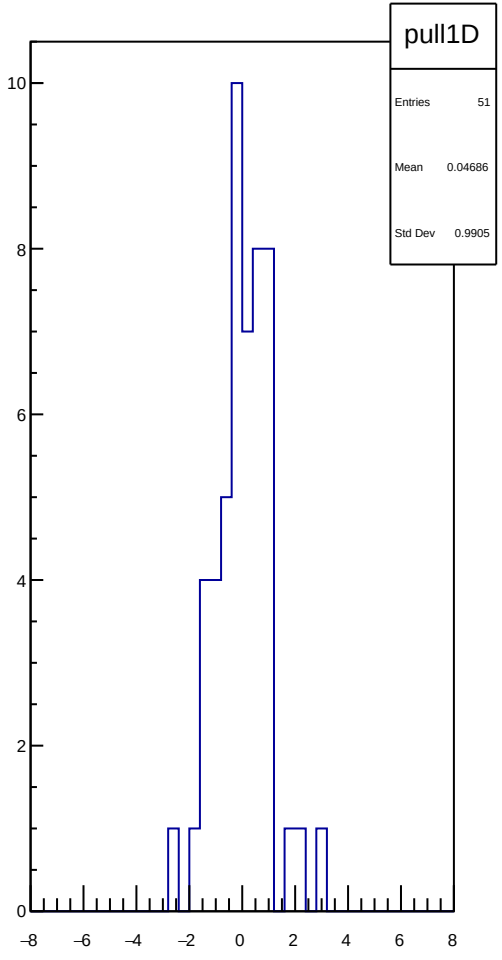
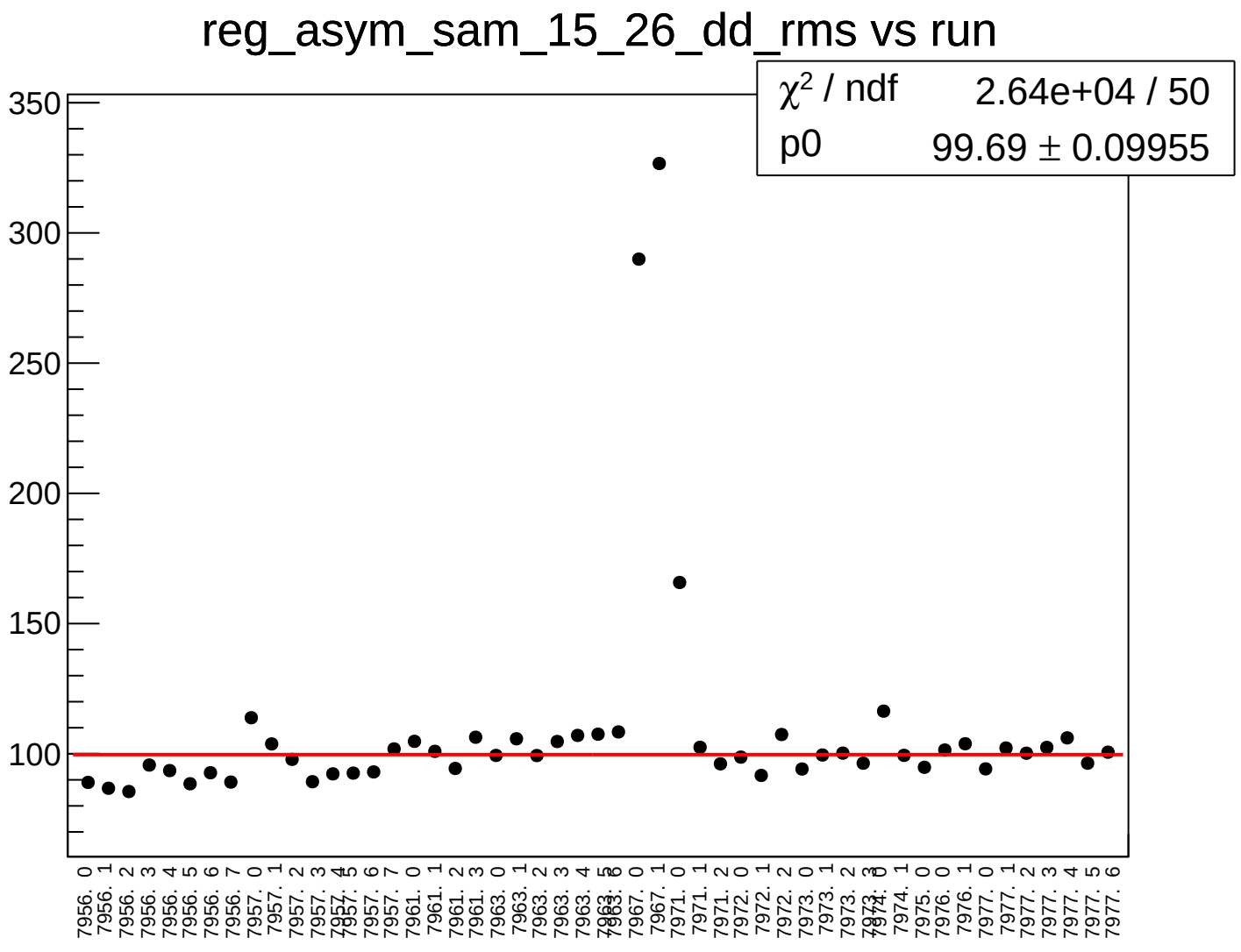
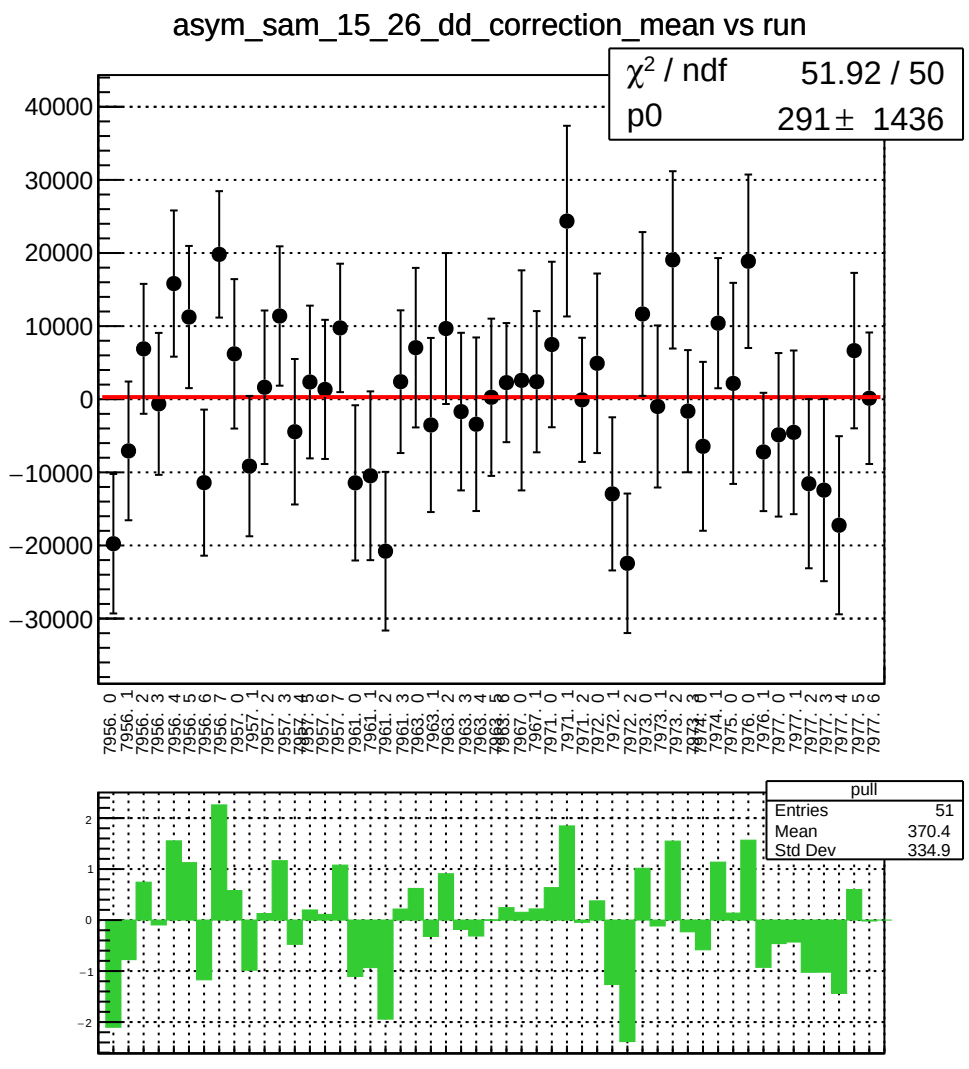
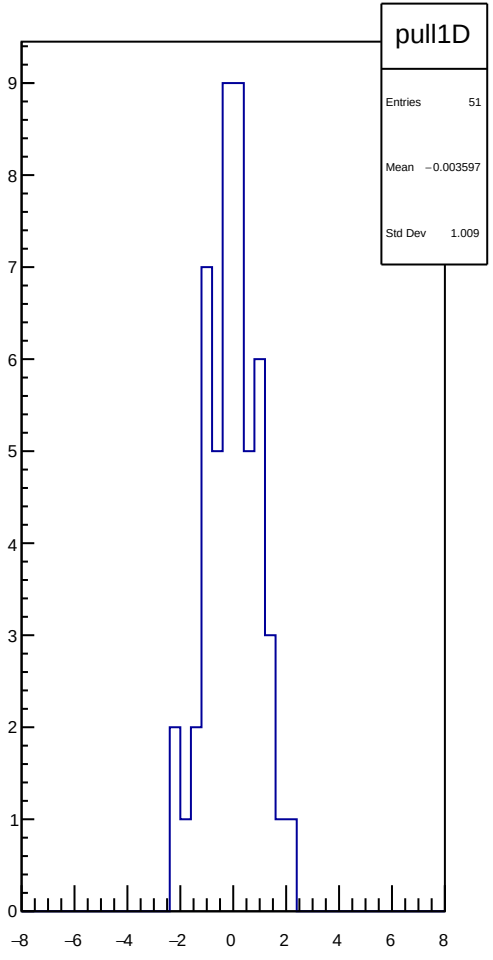
7977. 5
7977. 6

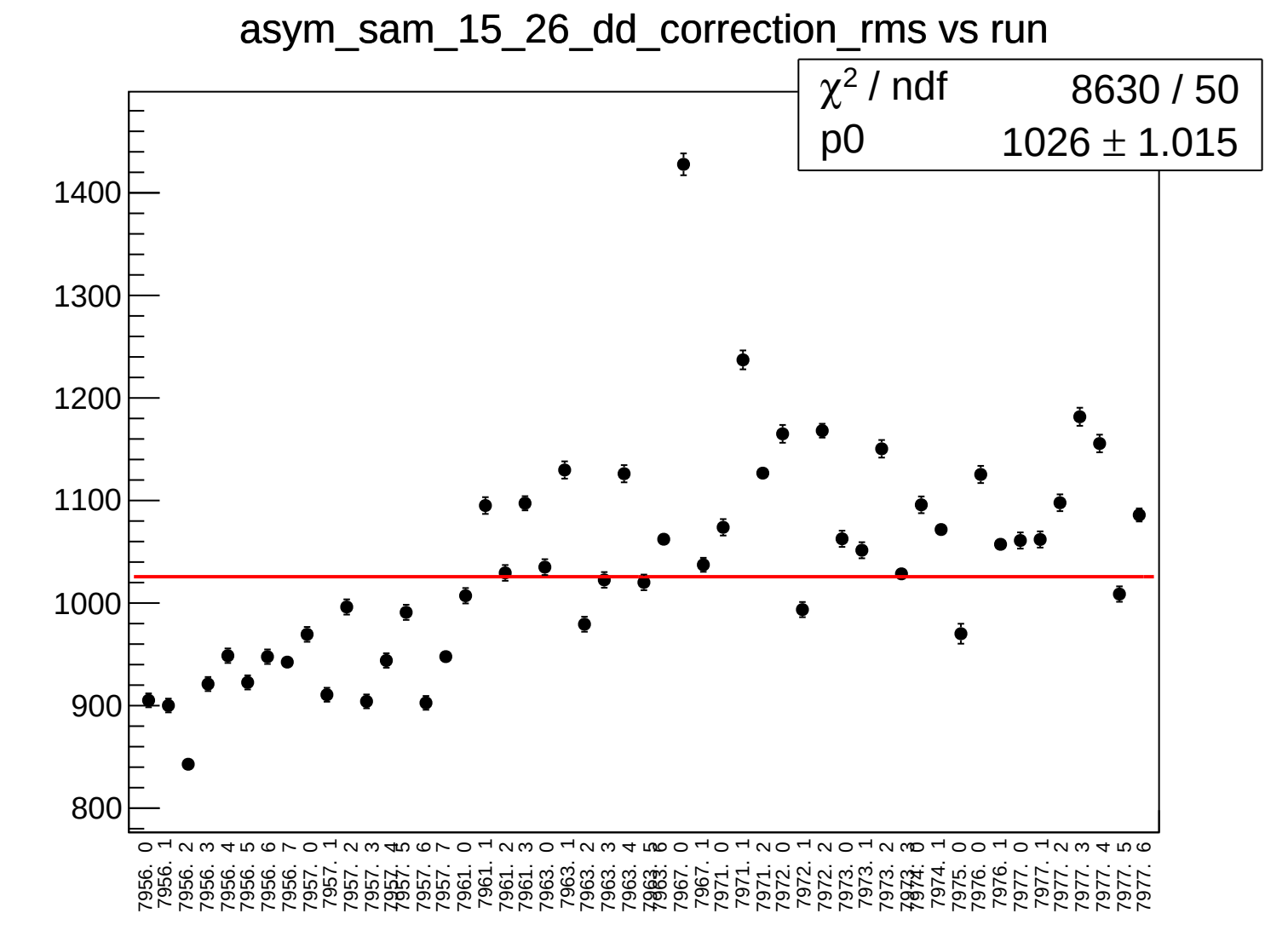

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 50.15 / 50
p0 −385.2 ± 140.8
pull
Entries 51
Mean 16.16
Std Dev 19.96


pull1D
Entries 51
Mean 0.04686
Std Dev 0.9905


reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.64e+04 / 50
p0 99.69 ± 0.09955
350
300
250
200
150
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 51.92 / 50
p0 291 ± 1436
pull
Entries 51
Mean 370.4
Std Dev 334.9


pull1D
Entries 51
Mean −0.003597
Std Dev 1.009


asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 8630 / 50
p0 1026 ± 1.015
1400
1300
1200
1100
1000
900
800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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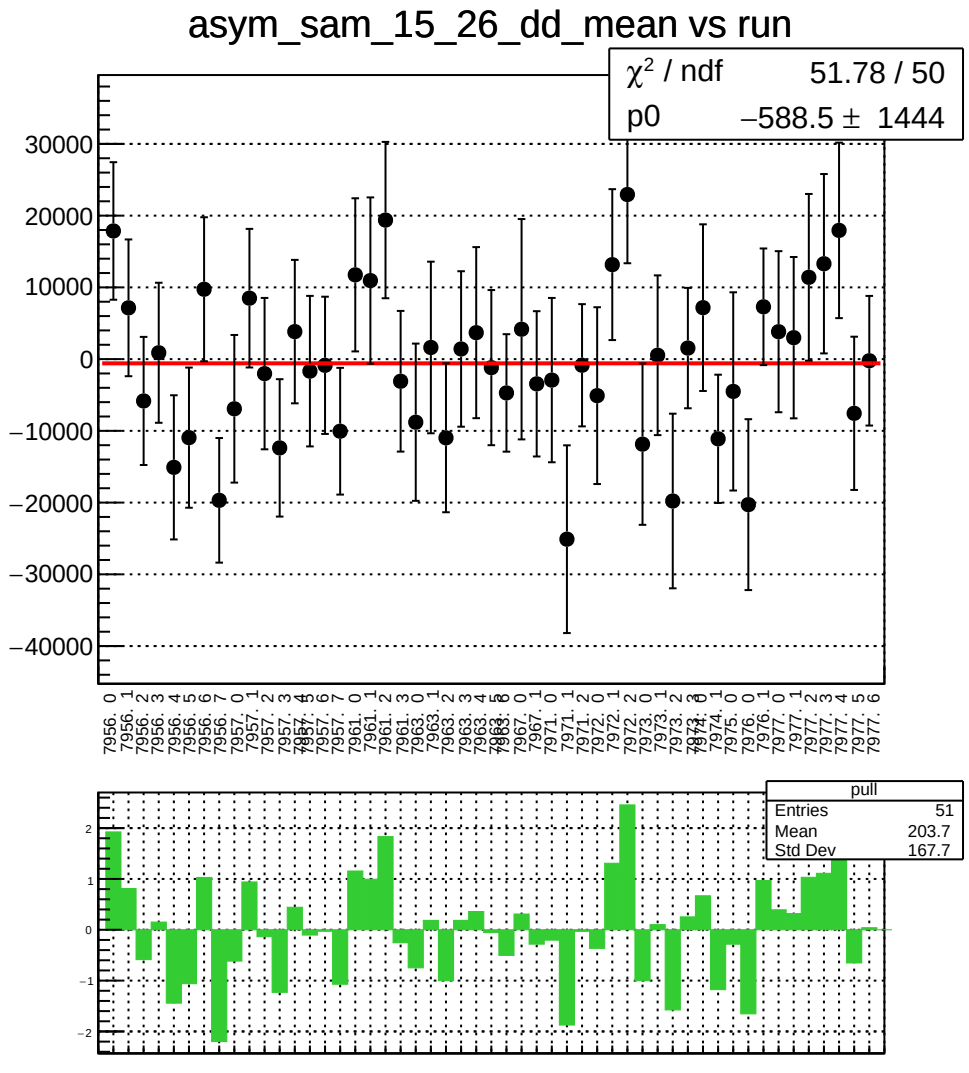
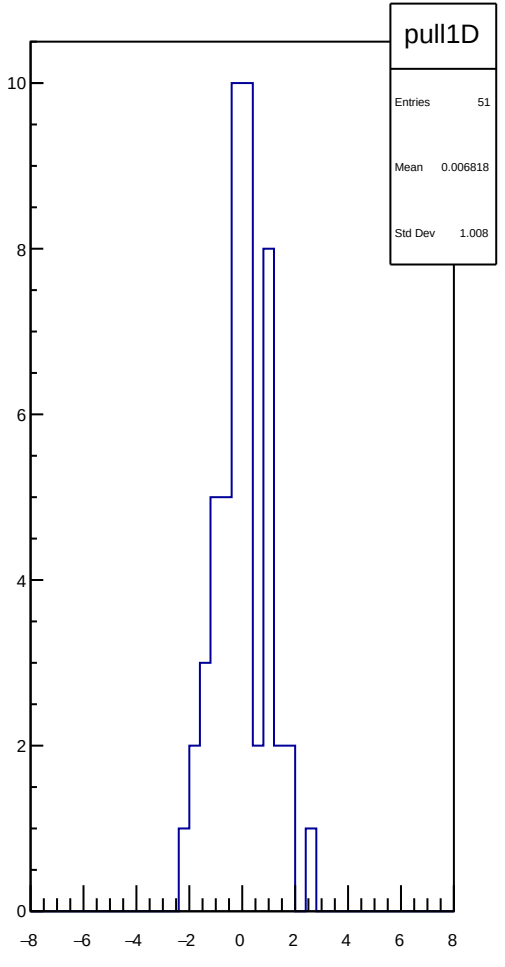
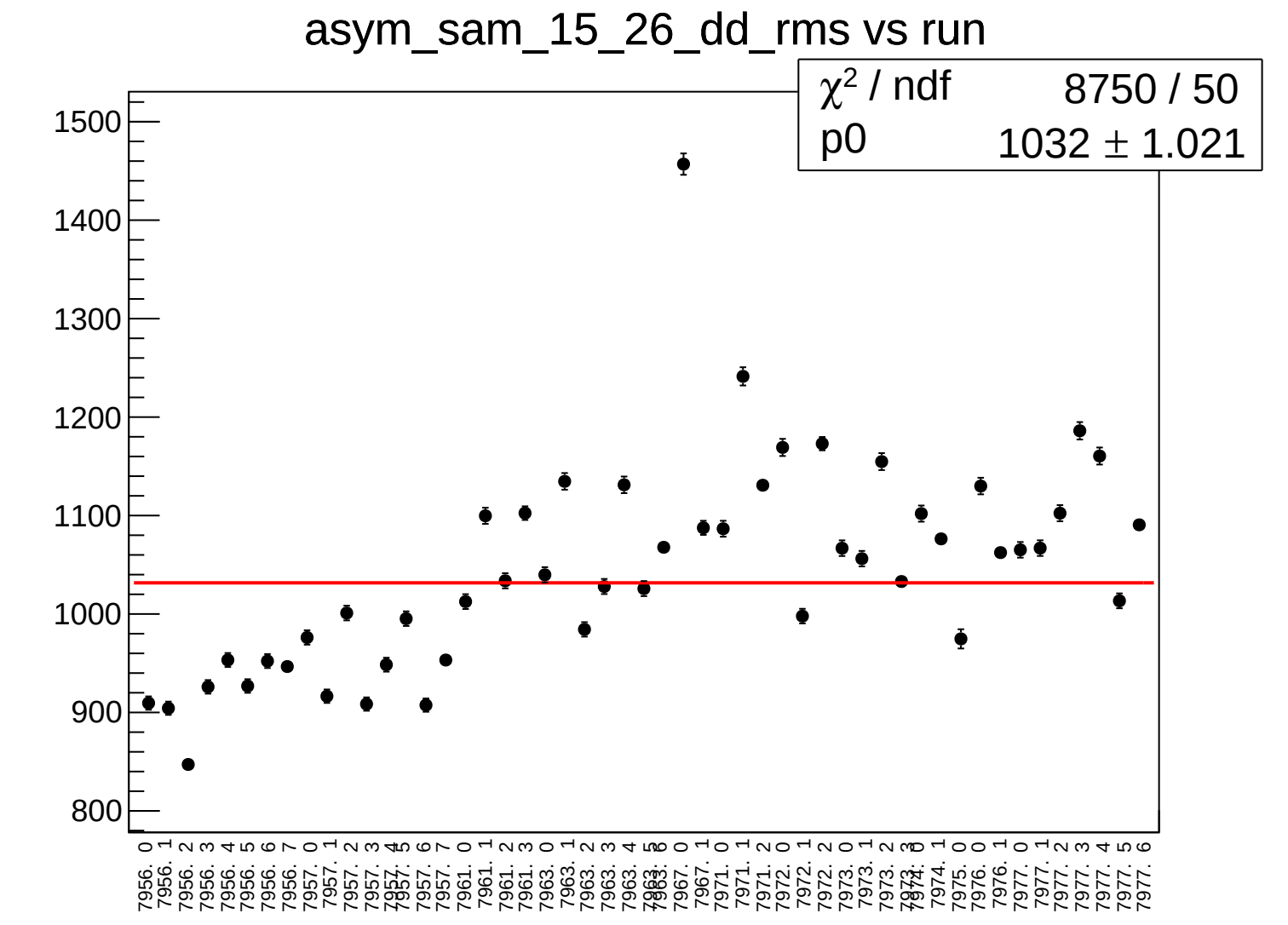
7977. 5
7977. 6


asym_sam_15_26_dd_mean vs run
χ² / ndf 51.78 / 50
p0 −588.5 ± 1444
pull
Entries 51
Mean 203.7
Std Dev 167.7


pull1D
Entries 51
Mean 0.006818
Std Dev 1.008


asym_sam_15_26_dd_rms vs run
χ² / ndf 8750 / 50
p0 1032 ± 1.021
1500
1400
1300
1200
1100
1000
900
800
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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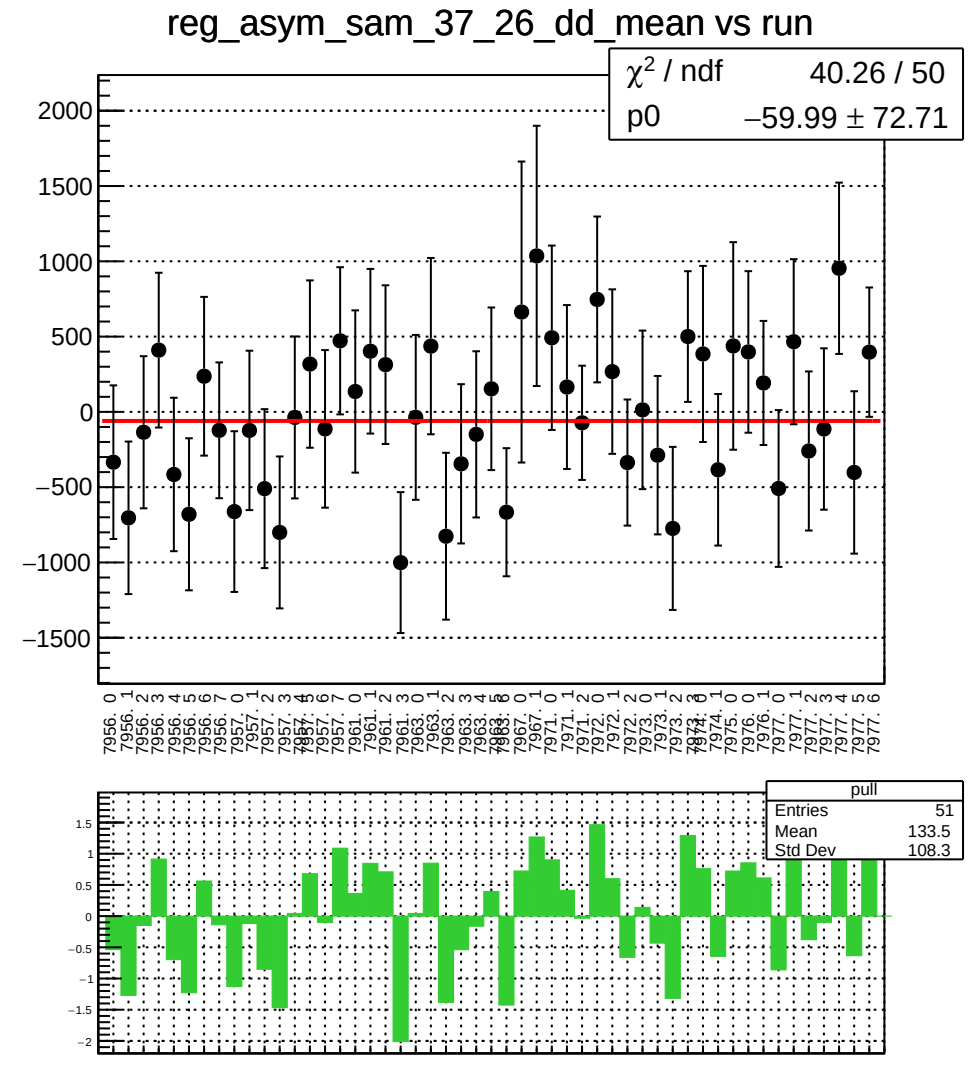
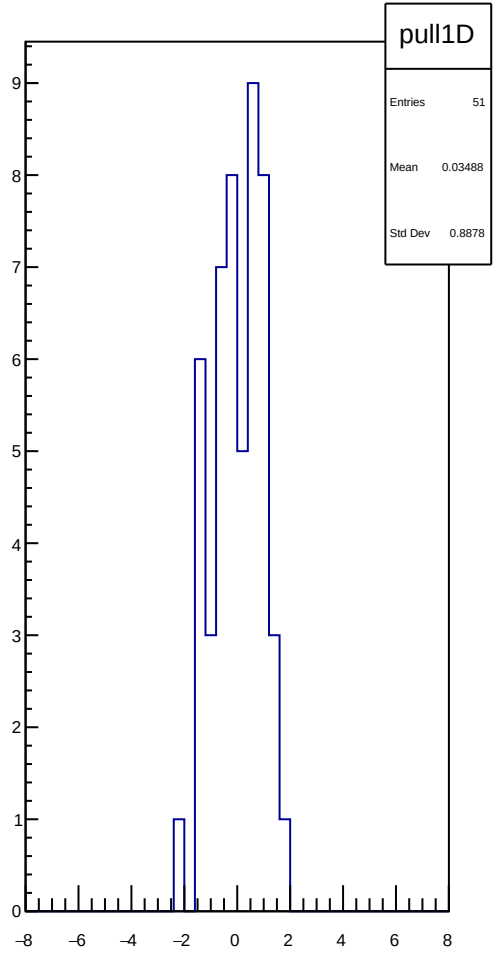
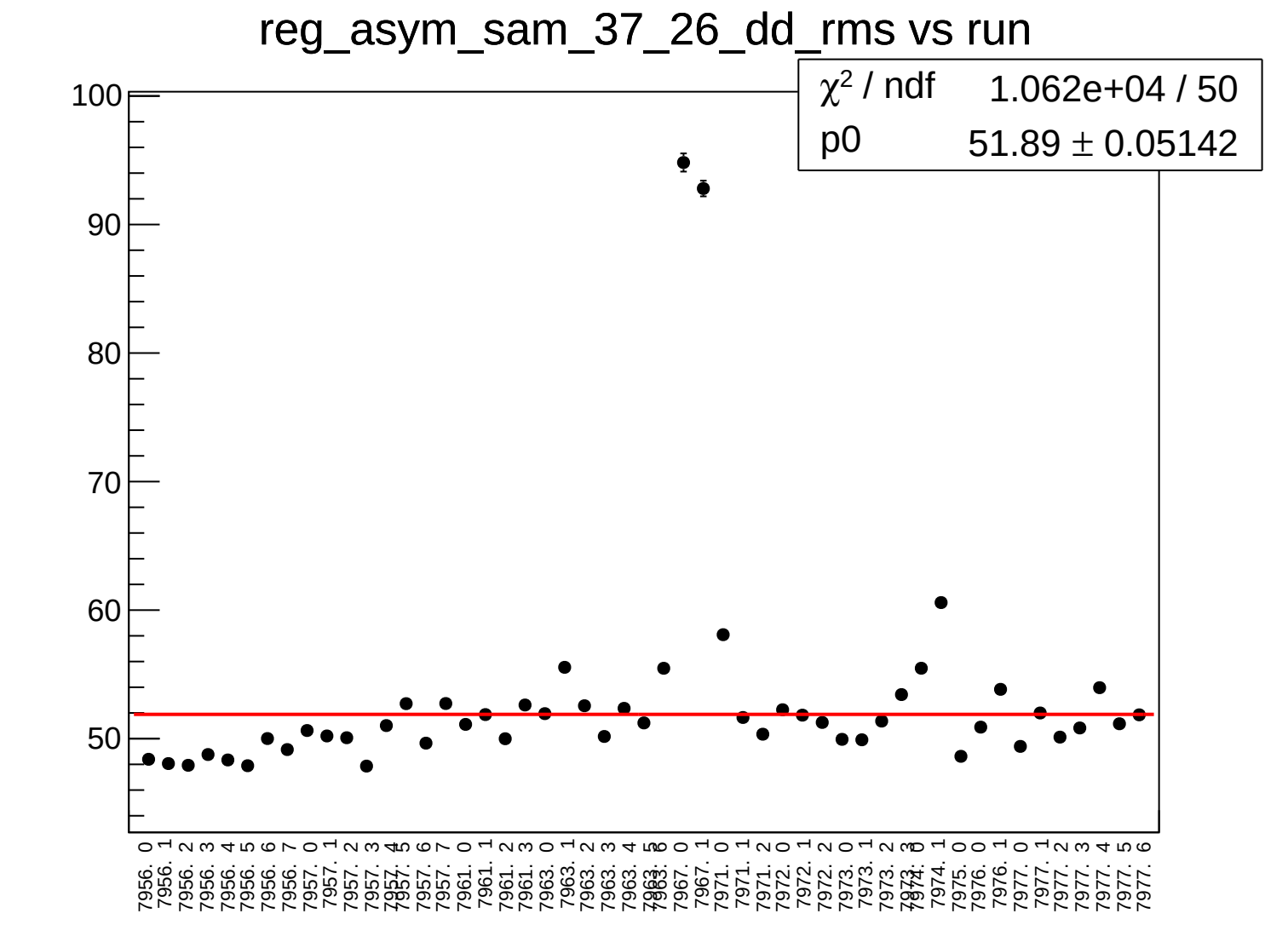
7977. 5
7977. 6


reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 40.26 / 50
p0 −59.99 ± 72.71
pull
Entries 51
Mean 133.5
Std Dev 108.3


pull1D
Entries 51
Mean 0.03488
Std Dev 0.8878


reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.062e+04 / 50
p0 51.89 ± 0.05142
100
90
80
70
60
50
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
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7973. 0
7973. 1
7973. 2
7974. 1
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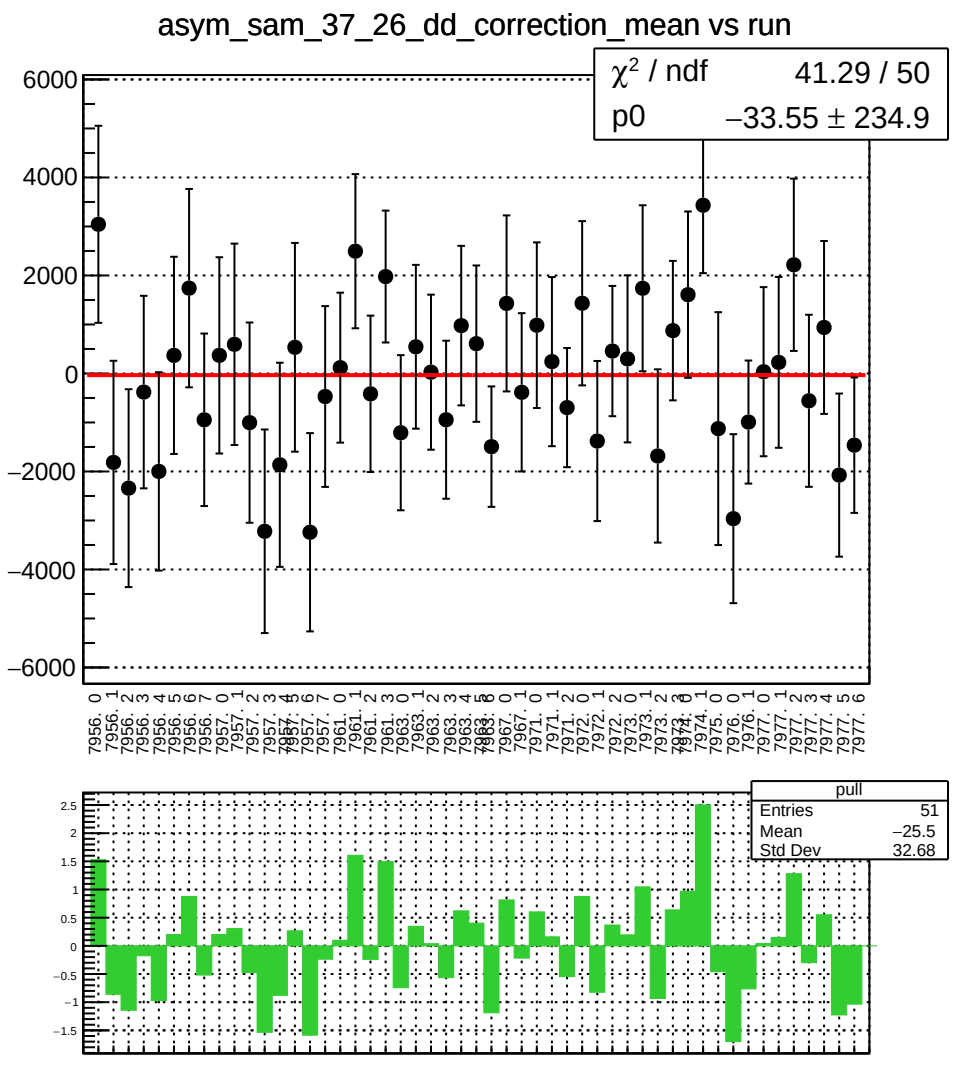
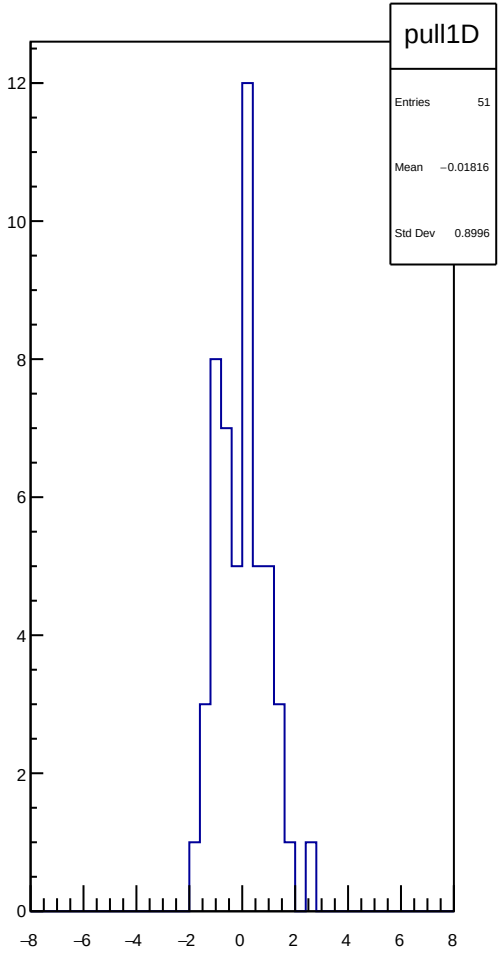
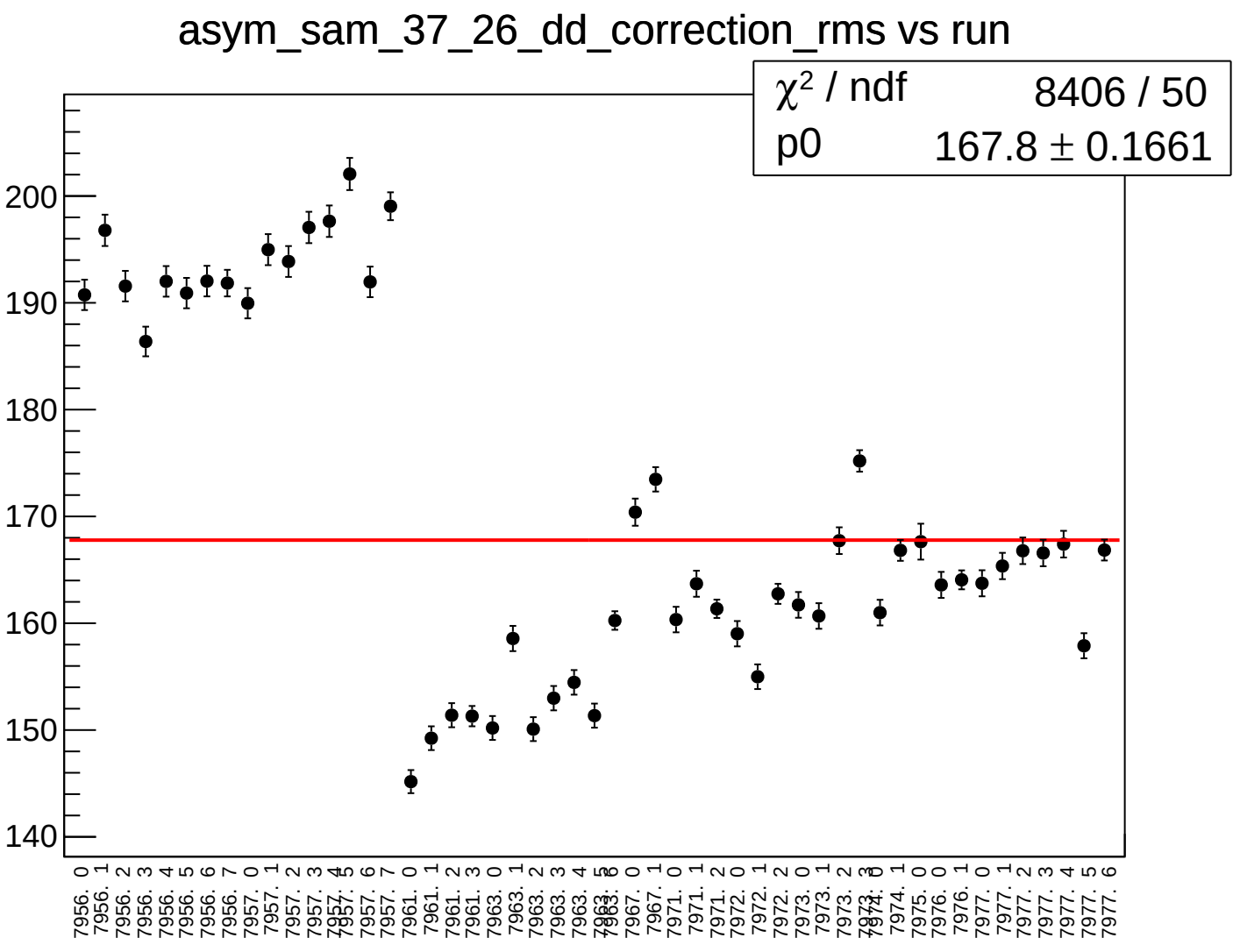
7977. 6


asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 41.29 / 50
p0 −33.55 ± 234.9
pull
Entries 51
Mean −25.5
Std Dev 32.68


pull1D
Entries 51
Mean −0.01816
Std Dev 0.8996


asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 8406 / 50
p0 167.8 ± 0.1661
200
190
180
170
160
150
140
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 0
7976. 1
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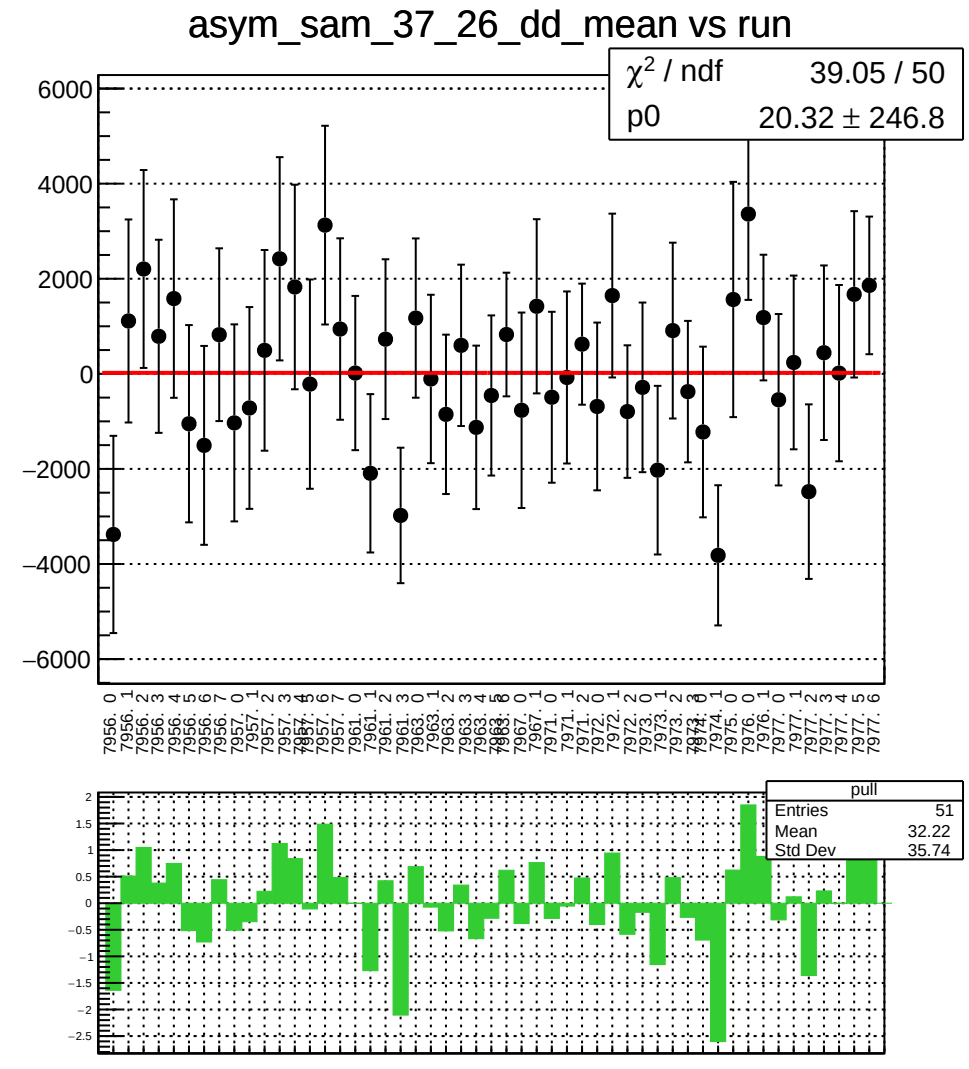
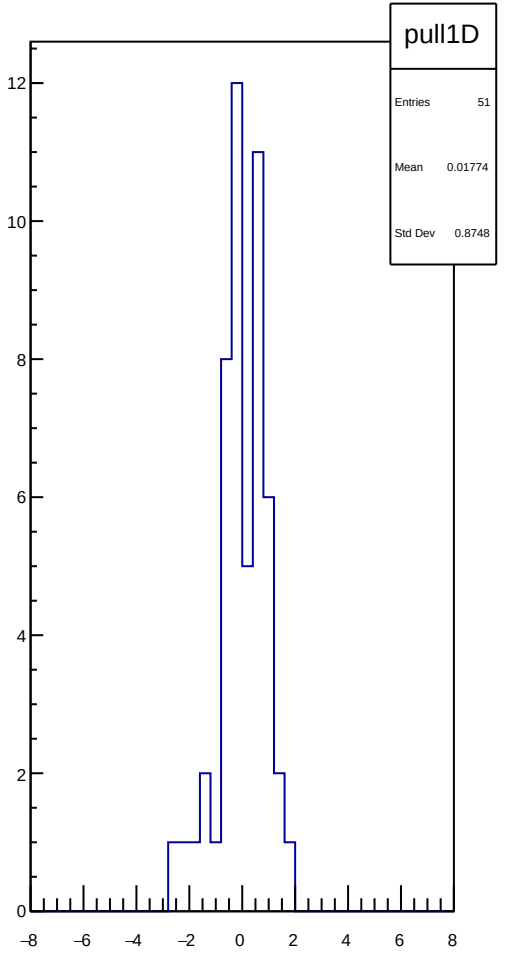
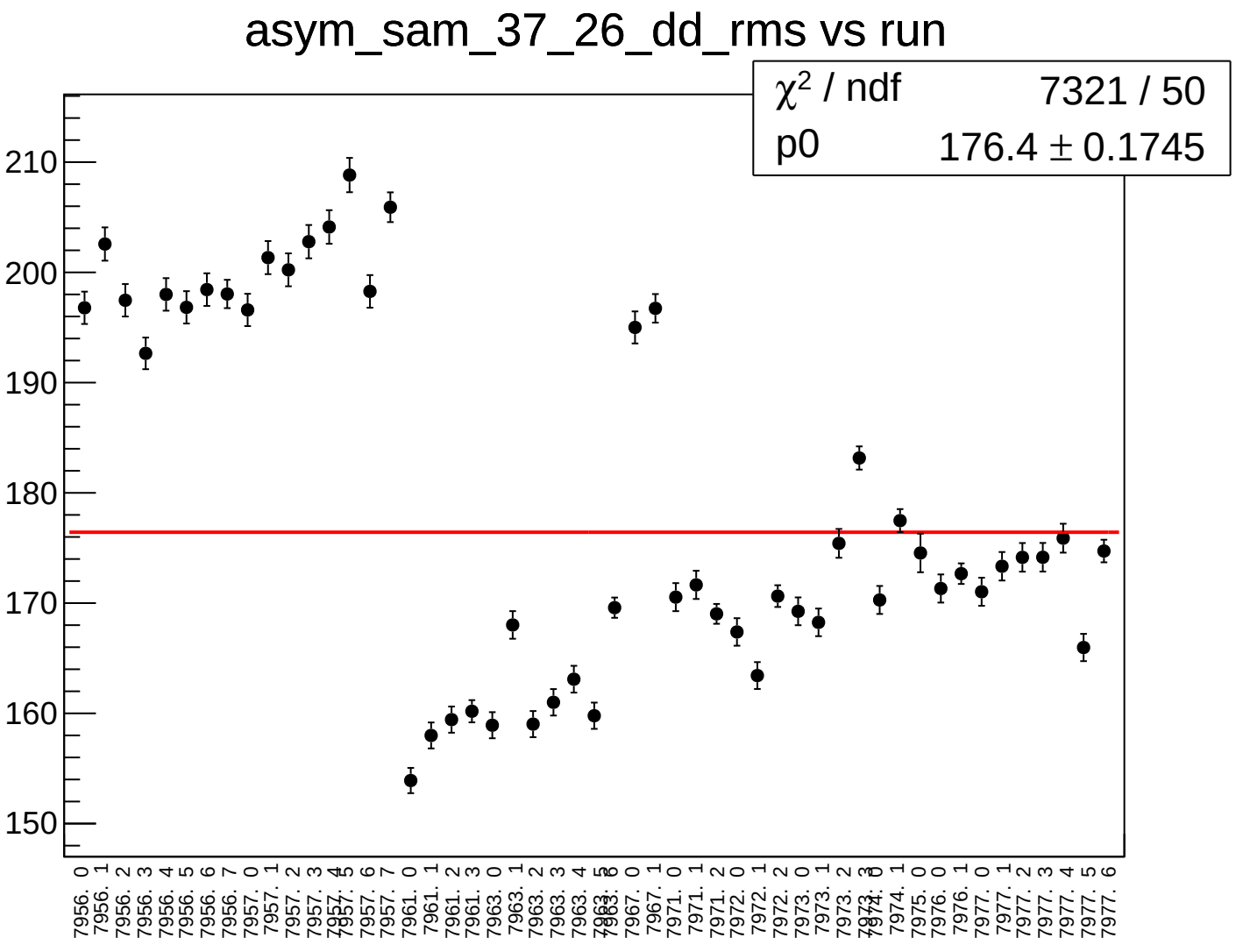
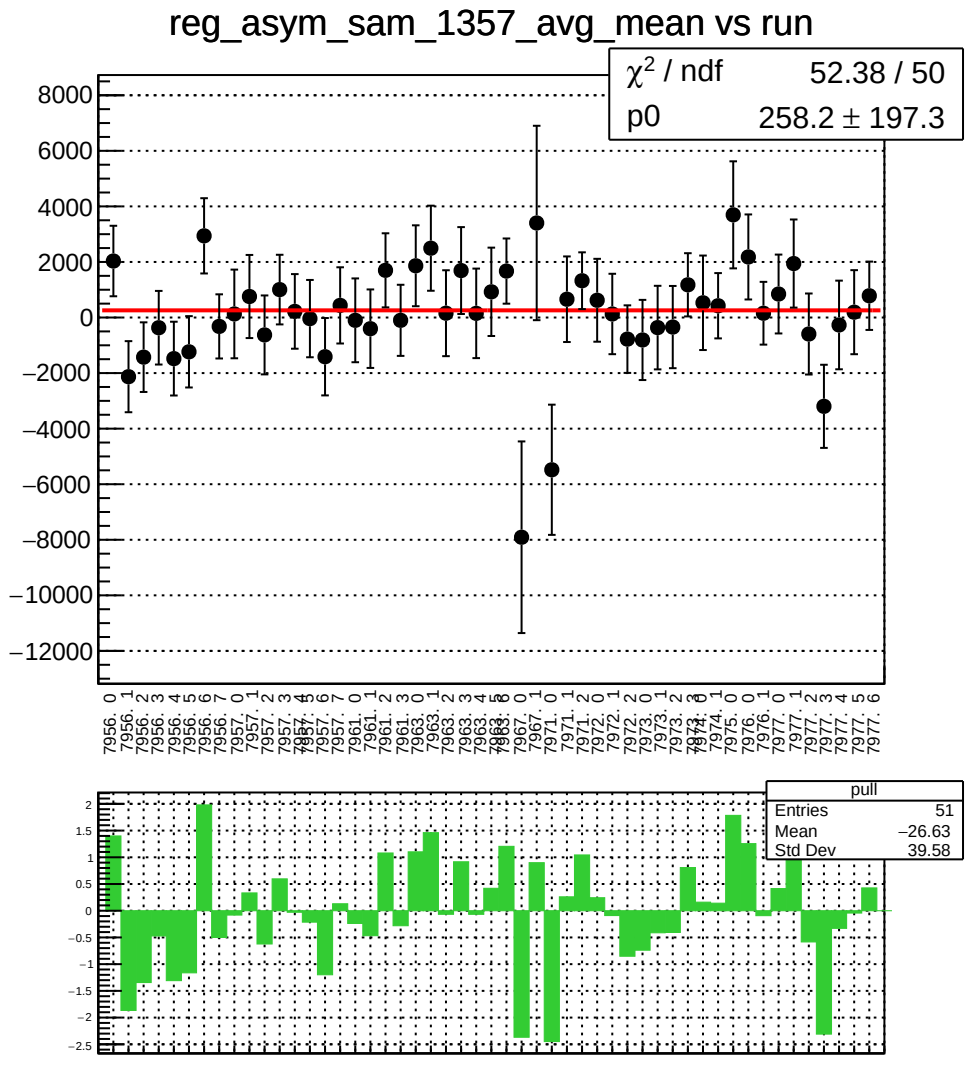
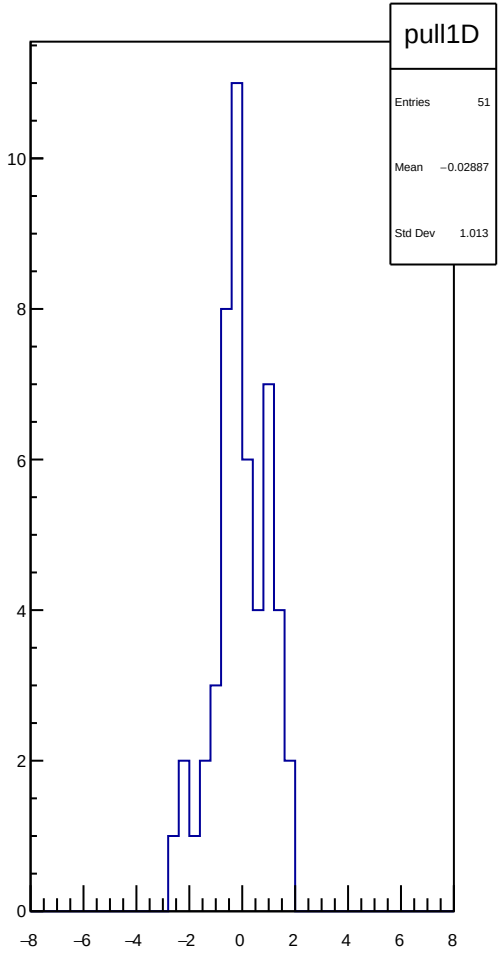
7977. 5
7977. 6

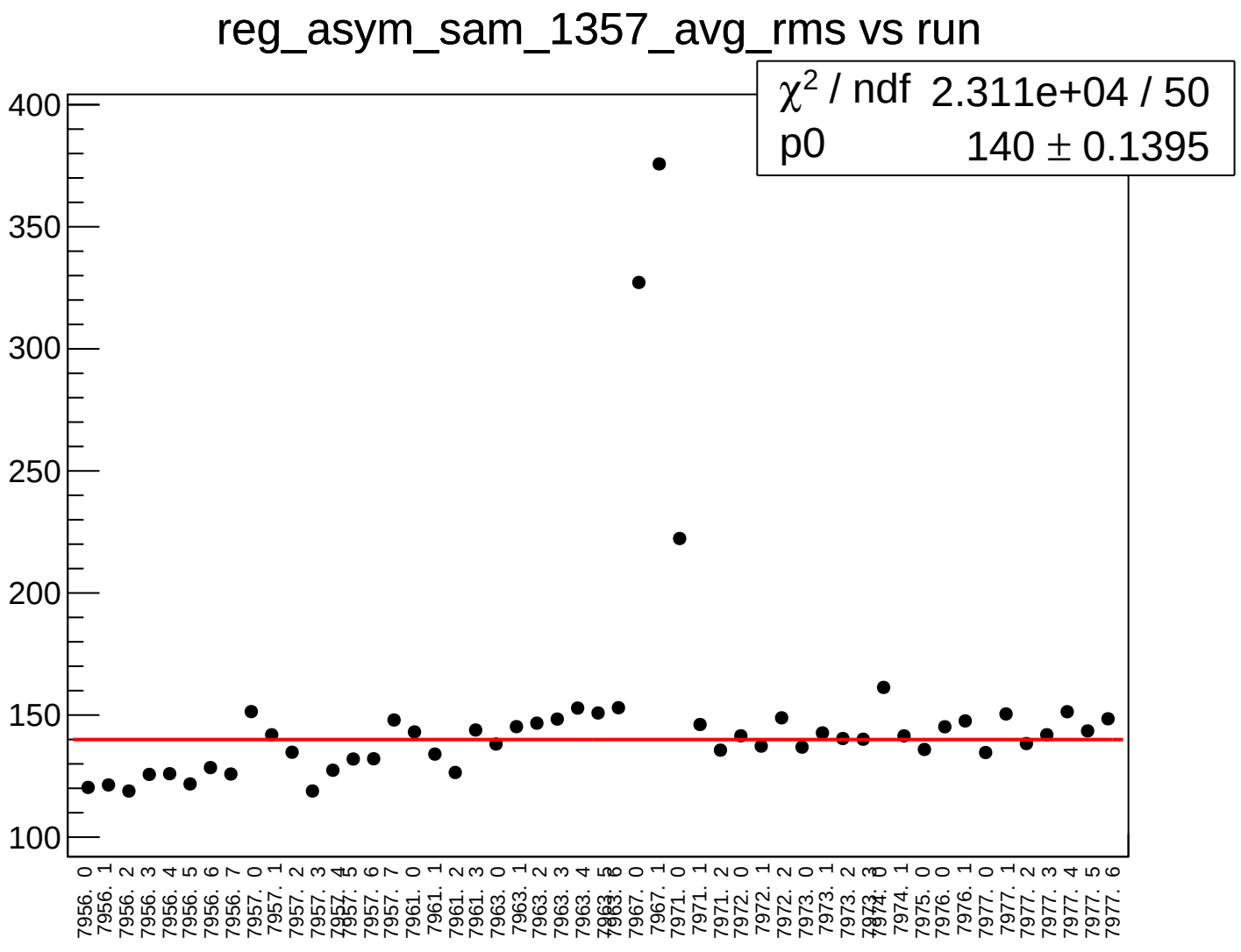

asym_sam_37_26_dd_mean vs run
χ² / ndf 39.05 / 50
p0 20.32 ± 246.8
pull
Entries 51
Mean 32.22
Std Dev 35.74


pull1D
Entries 51
Mean 0.01774
Std Dev 0.8748


asym_sam_37_26_dd_rms vs run
χ² / ndf 7321 / 50
p0 176.4 ± 0.1745
210
200
190
180
170
160
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 52.38 / 50
p0 258.2 ± 197.3
pull
Entries 51
Mean −26.63
Std Dev 39.58


pull1D
Entries 51
Mean −0.02887
Std Dev 1.013


reg_asym_sam_1357_avg_rms vs run
χ² / ndf 2.311e+04 / 50
p0 140 ± 0.1395
400
350
300
250
200
150
100
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
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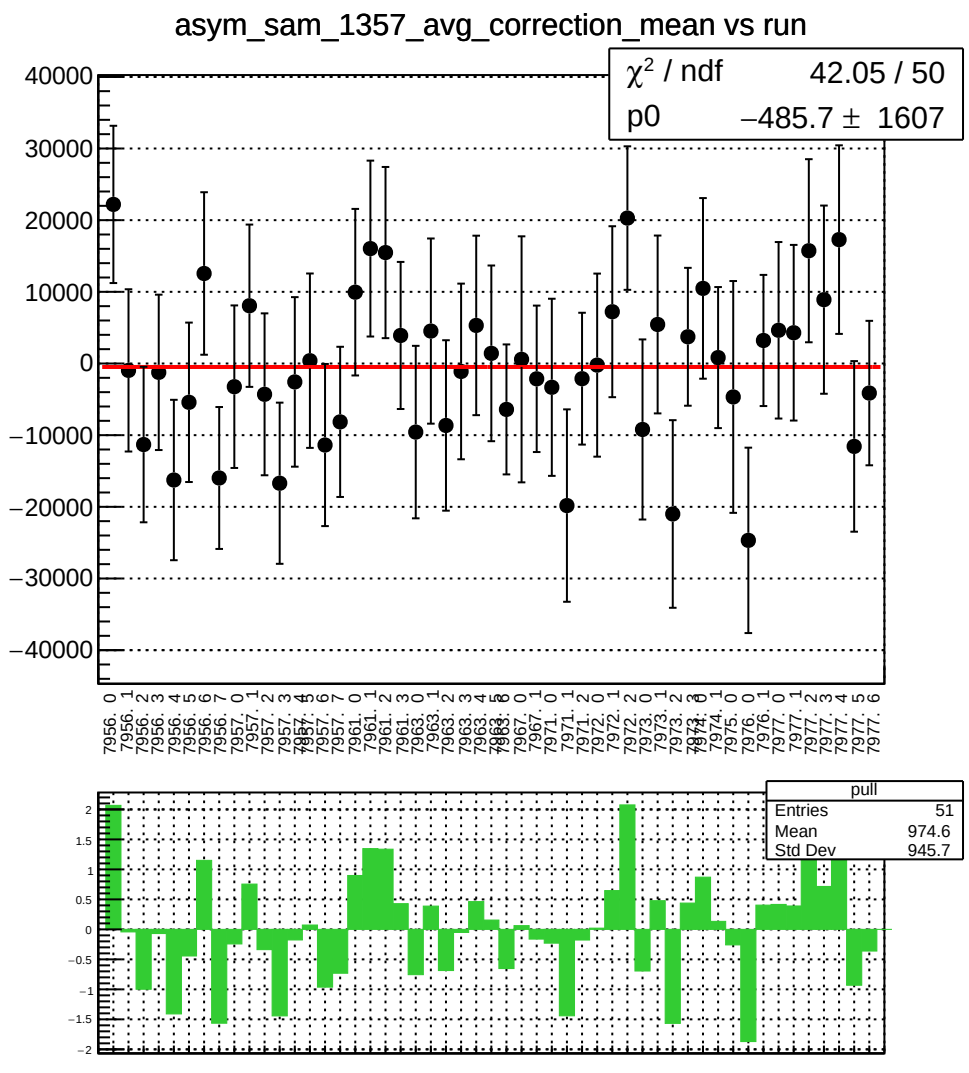
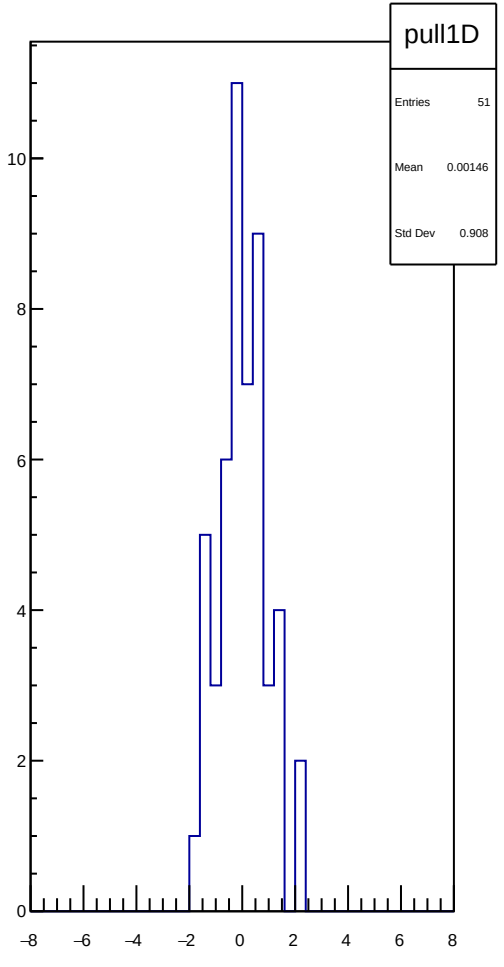
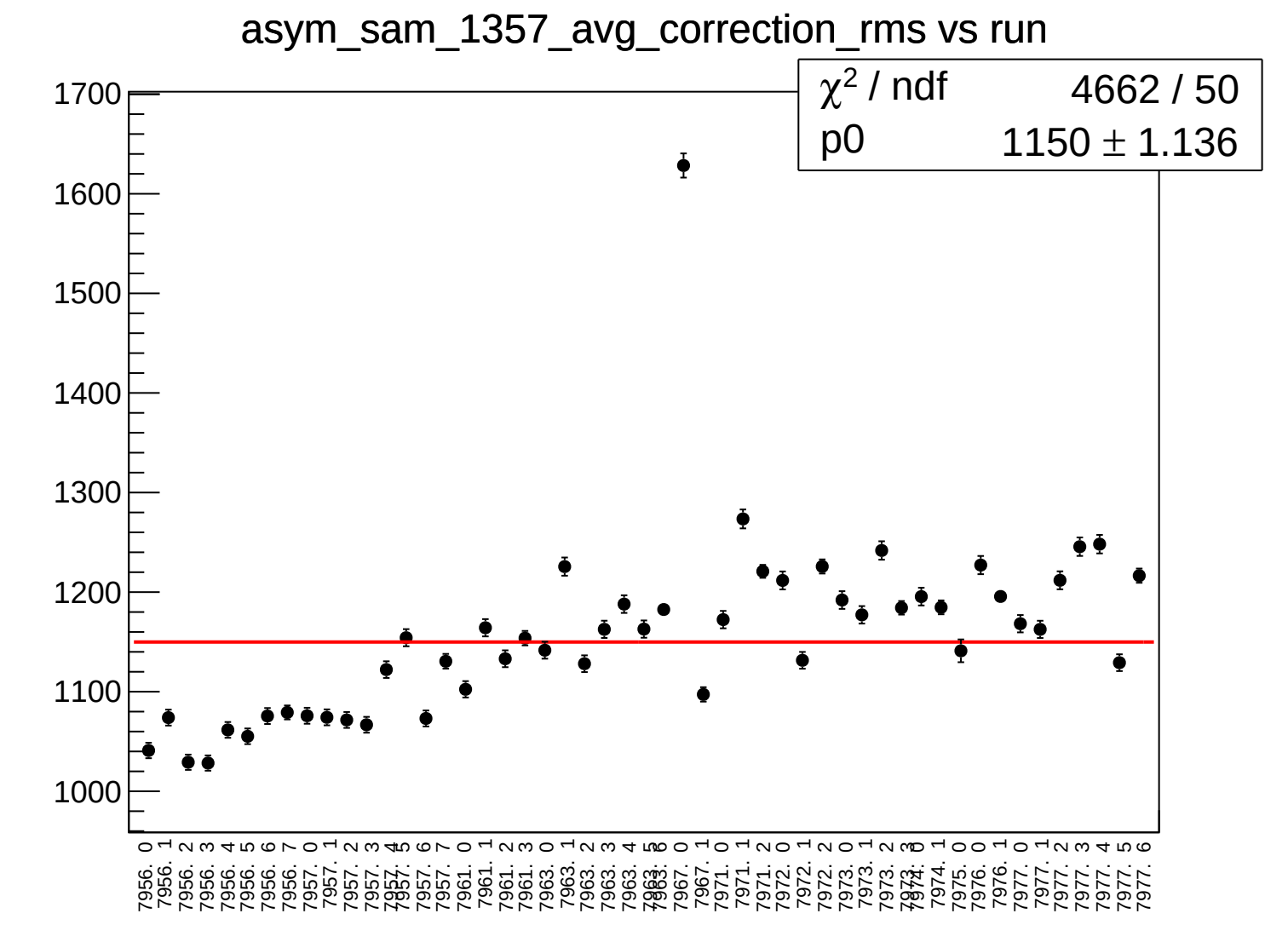
7977. 5
7977. 6


asym_sam_1357_avg_correction_mean vs run
χ² / ndf 42.05 / 50
p0 −485.7 ± 1607
pull
Entries 51
Mean 974.6
Std Dev 945.7


pull1D
Entries 51
Mean 0.00146
Std Dev 0.908


asym_sam_1357_avg_correction_rms vs run
χ² / ndf 4662 / 50
p0 1150 ± 1.136
1700
1600
1500
1400
1300
1200
1100
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
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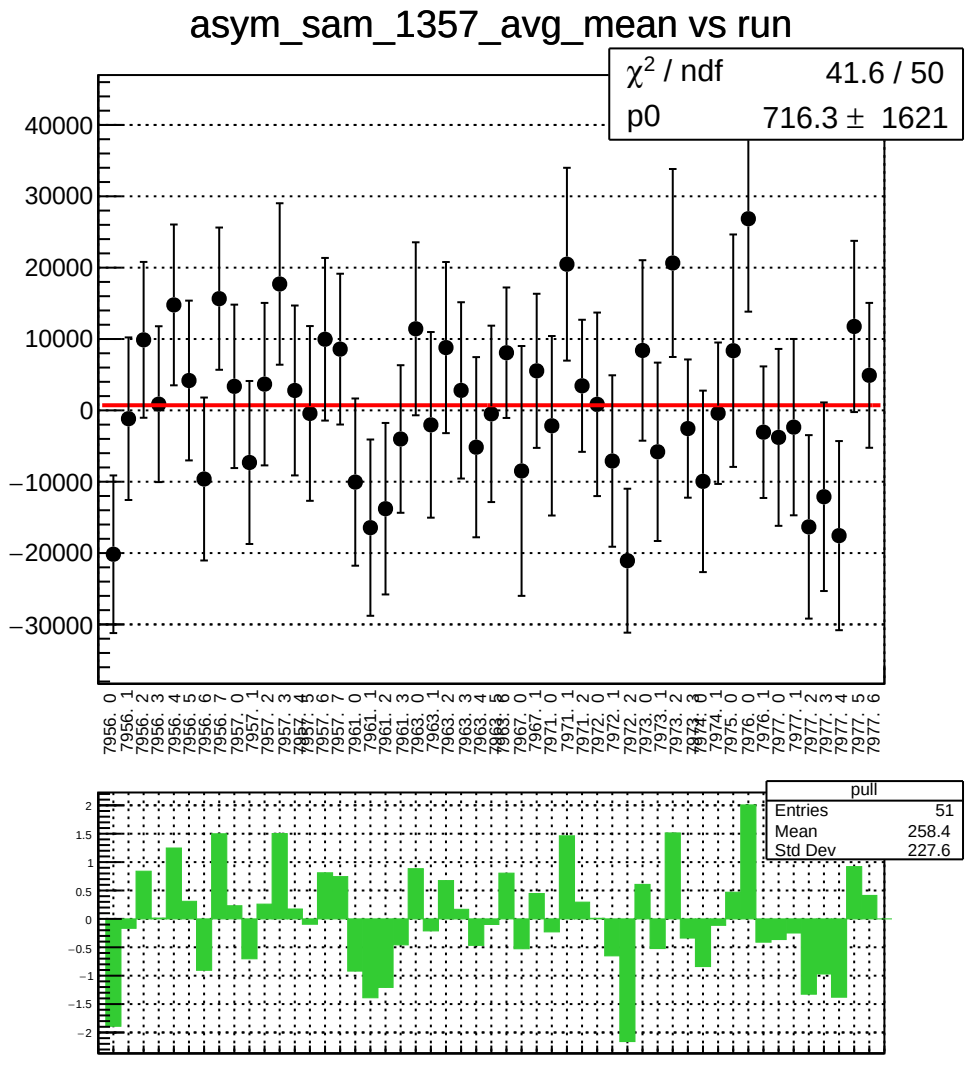
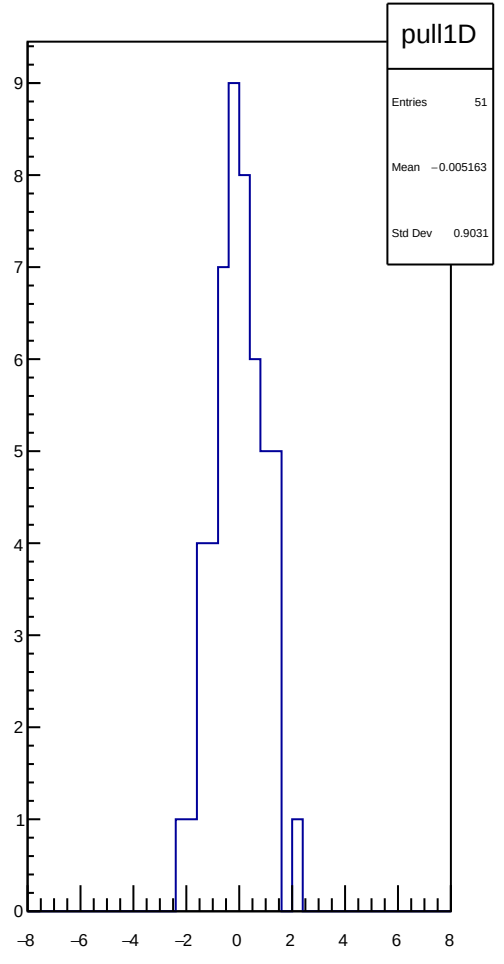
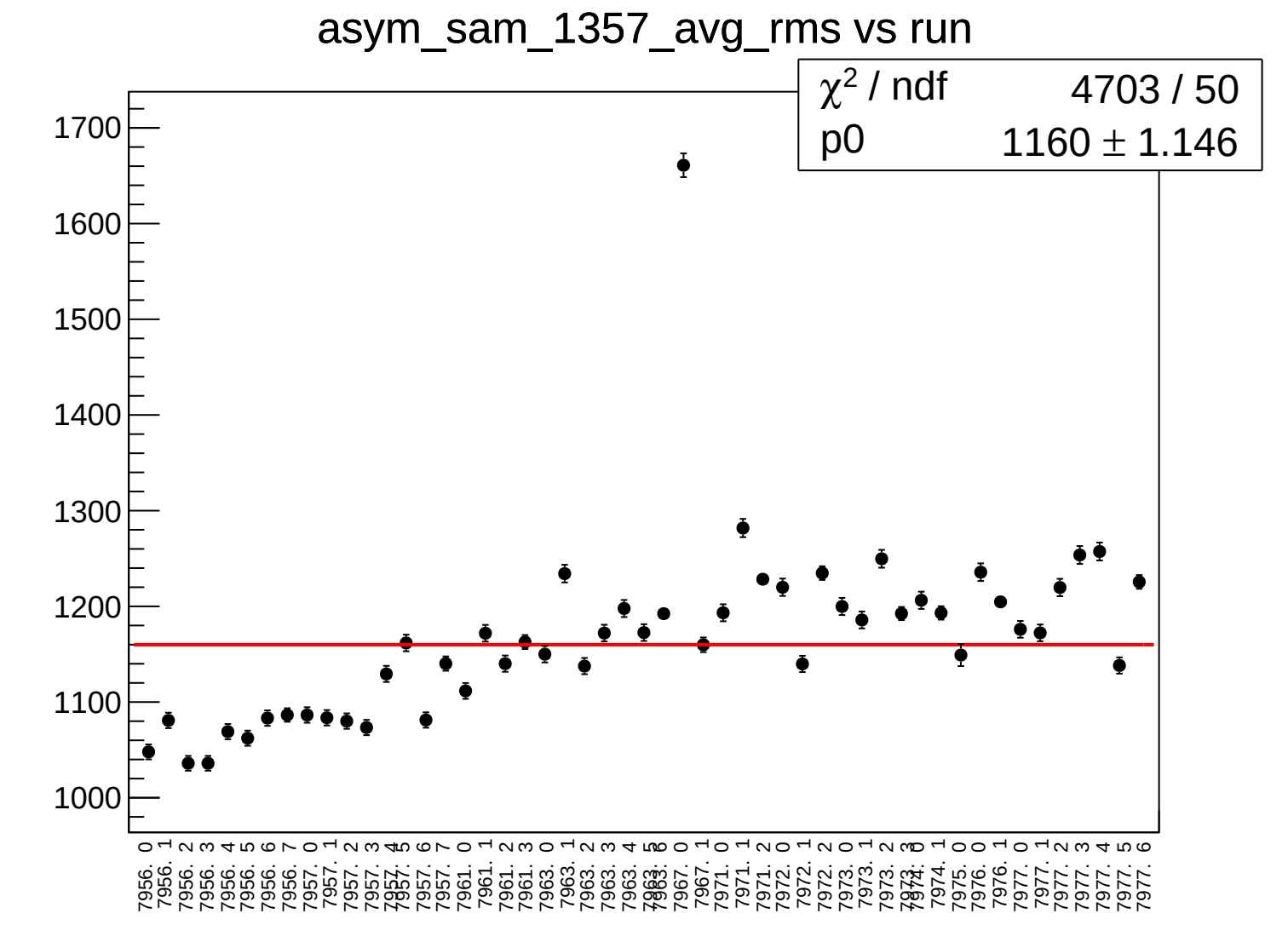
7977. 5
7977. 6


asym_sam_1357_avg_mean vs run
χ^2 / ndf 41.6 / 50
p0 716.3 ± 1621
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 258.4
Std Dev 227.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.005163
Std Dev 0.9031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_rms vs run
χ² / ndf 4703 / 50
p0 1160 ± 1.146
1700
1600
1500
1400
1300
1200
1100
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
7977. 0
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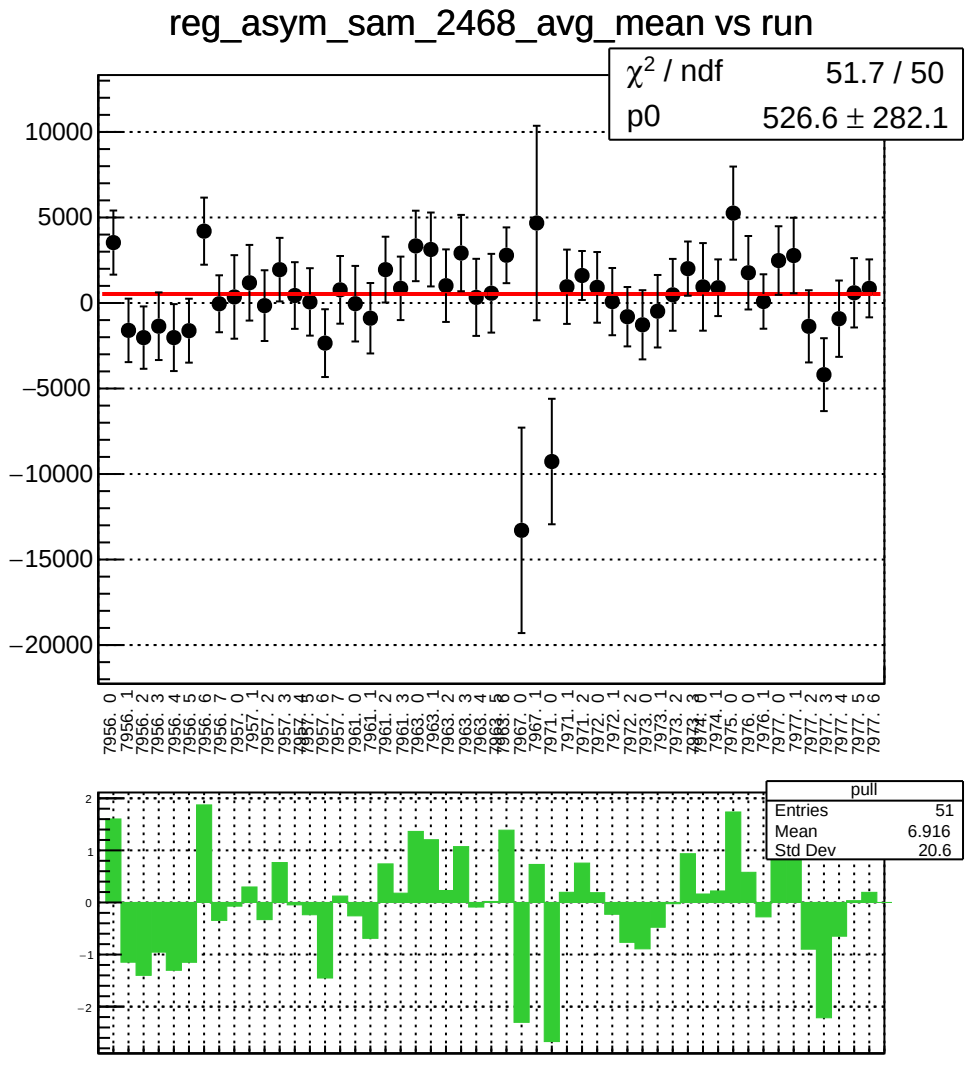
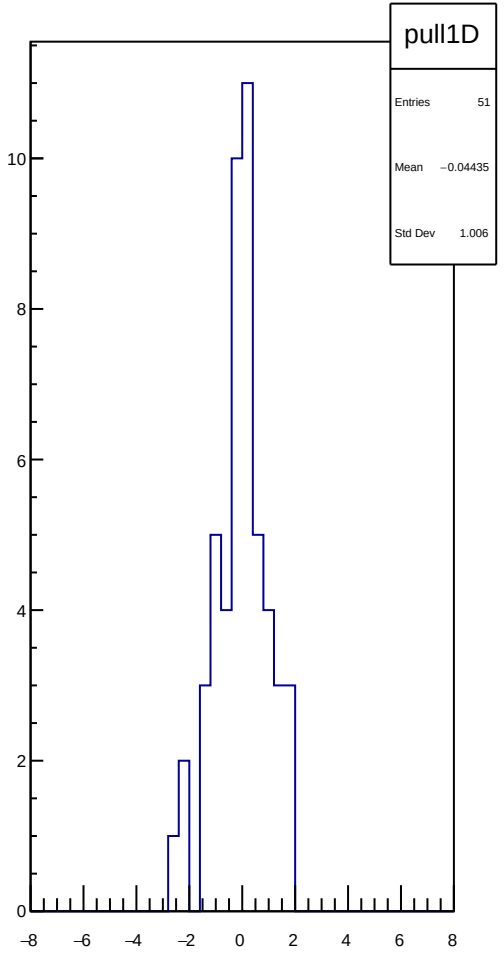
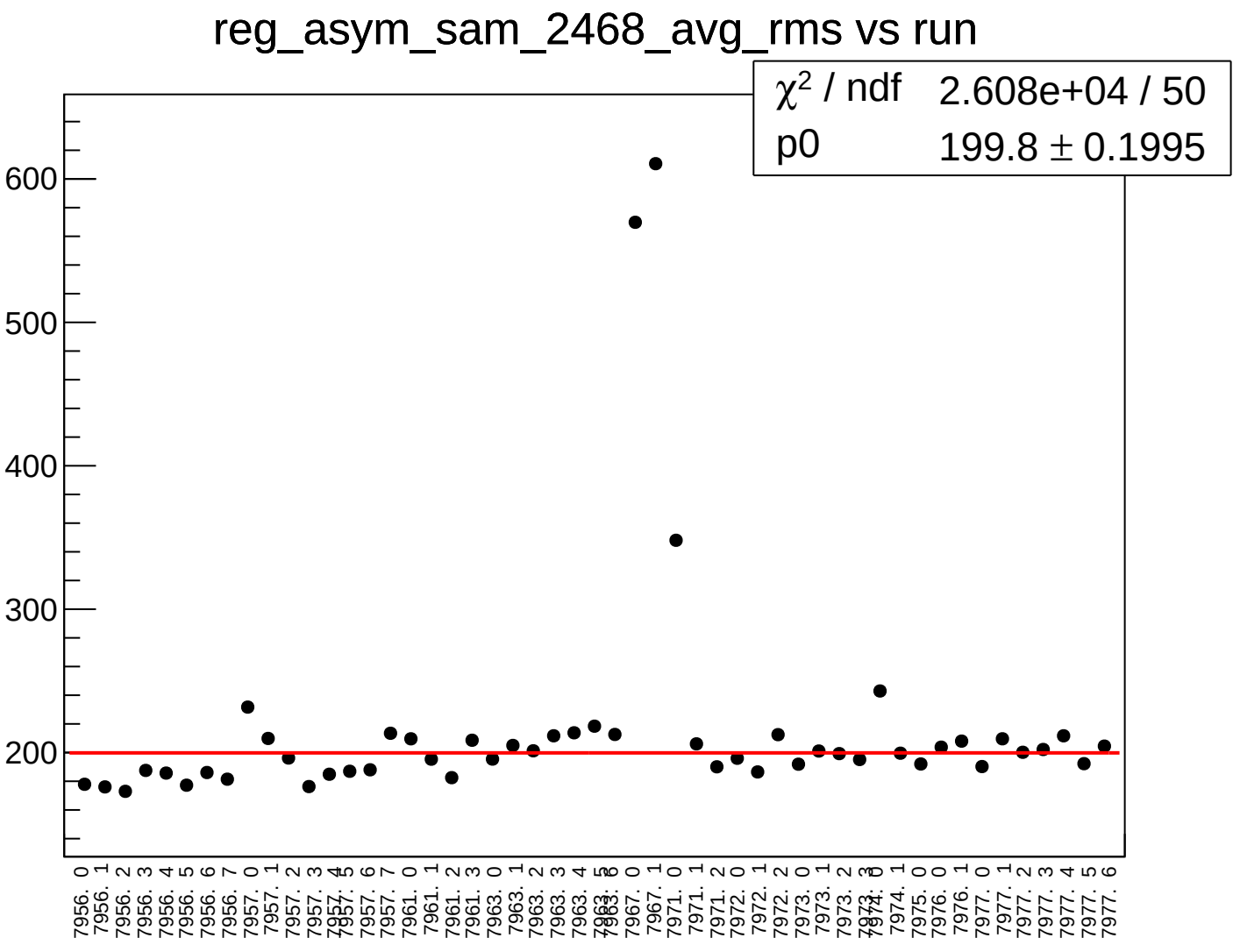
7977. 5
7977. 6


reg_asym_sam_2468_avg_mean vs run
χ² / ndf 51.7 / 50
p0 526.6 ± 282.1
pull
Entries 51
Mean 6.916
Std Dev 20.6


pull1D
Entries 51
Mean −0.04435
Std Dev 1.006


reg_asym_sam_2468_avg_rms vs run
χ² / ndf 2.608e+04 / 50
p0 199.8 ± 0.1995
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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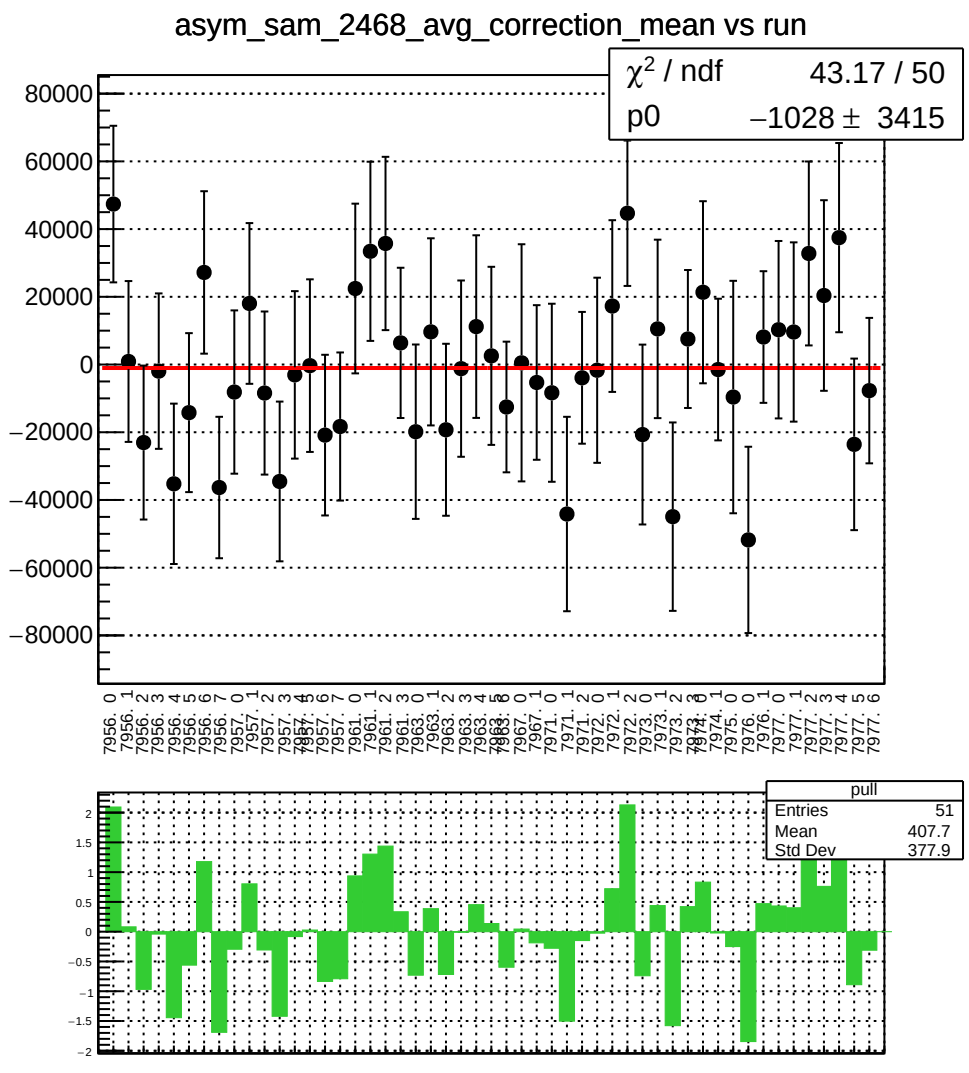
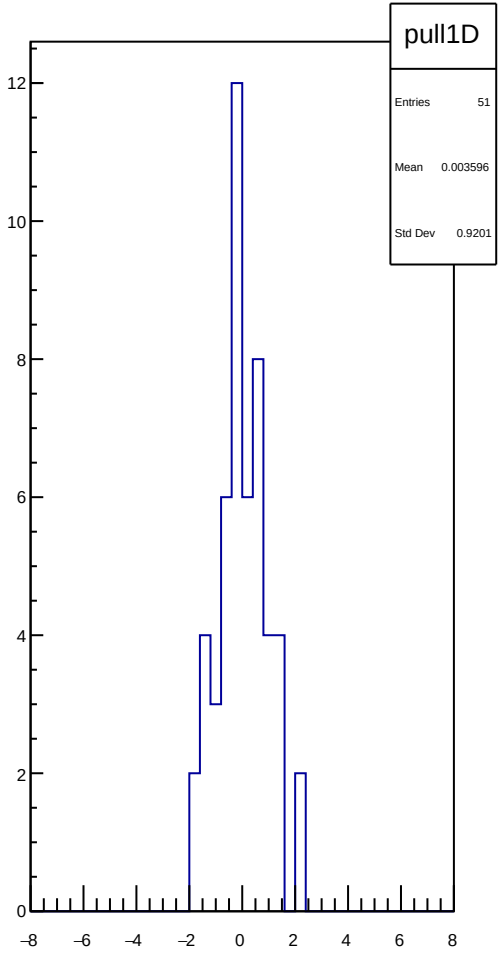
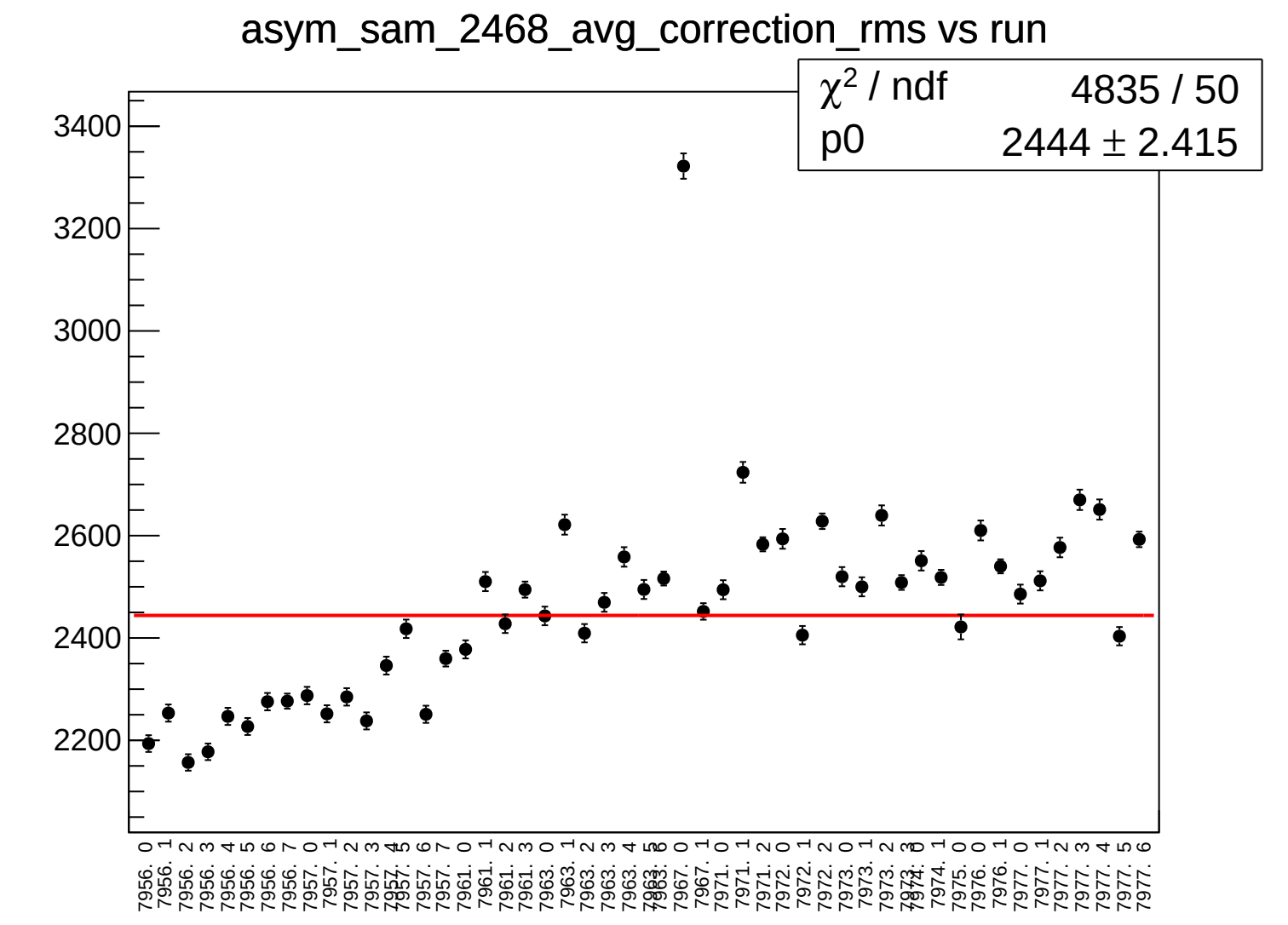
7977. 5
7977. 6


asym_sam_2468_avg_correction_mean vs run
χ² / ndf 43.17 / 50
p0 −1028 ± 3415
pull
Entries 51
Mean 407.7
Std Dev 377.9


pull1D
Entries 51
Mean 0.003596
Std Dev 0.9201


asym_sam_2468_avg_correction_rms vs run
χ² / ndf 4835 / 50
p0 2444 ± 2.415
3400
3200
3000
2800
2600
2400
2200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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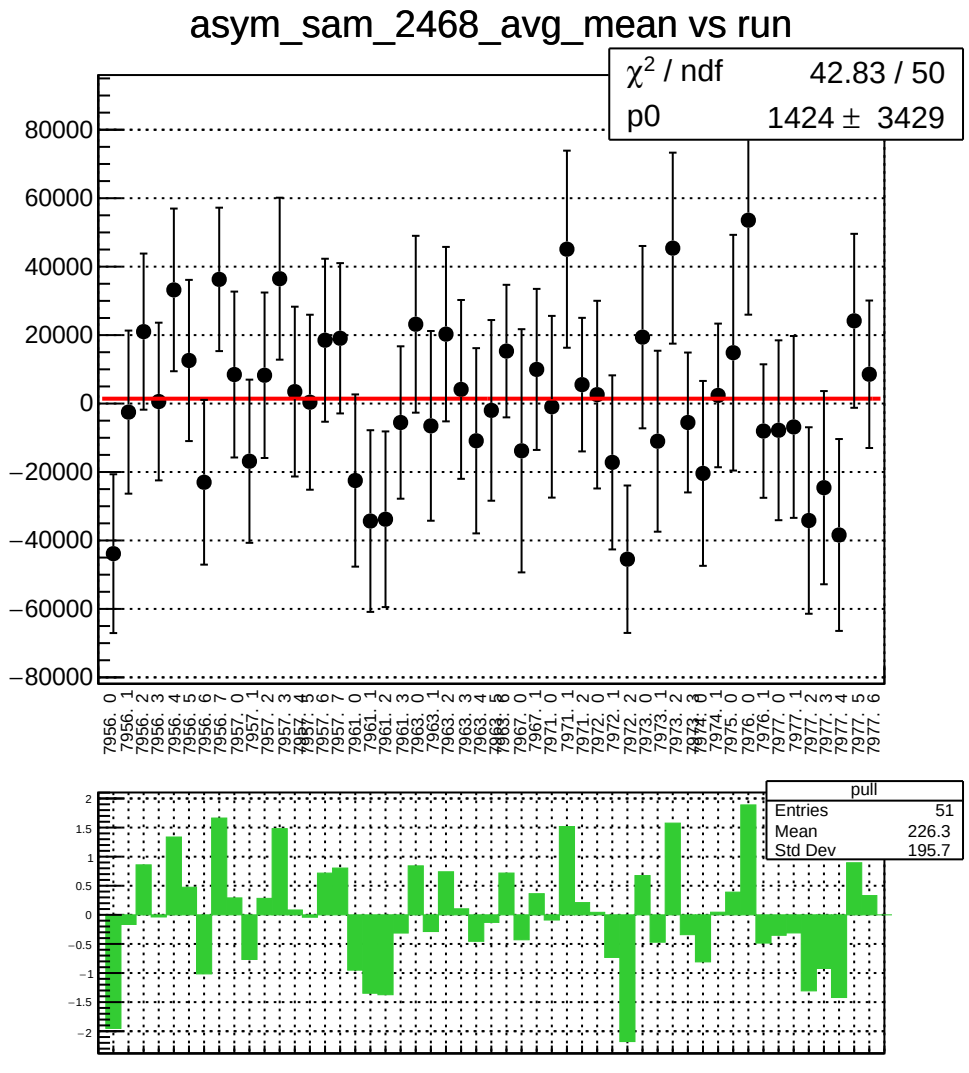
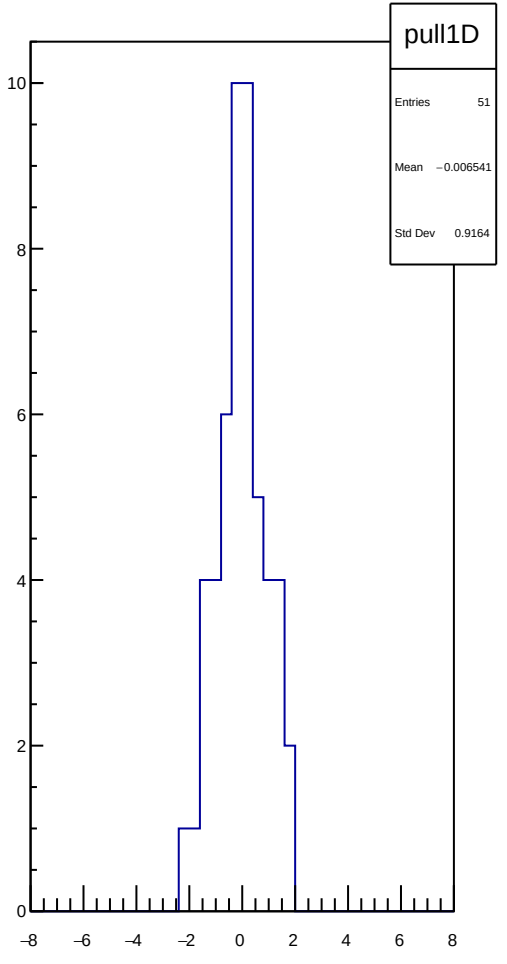
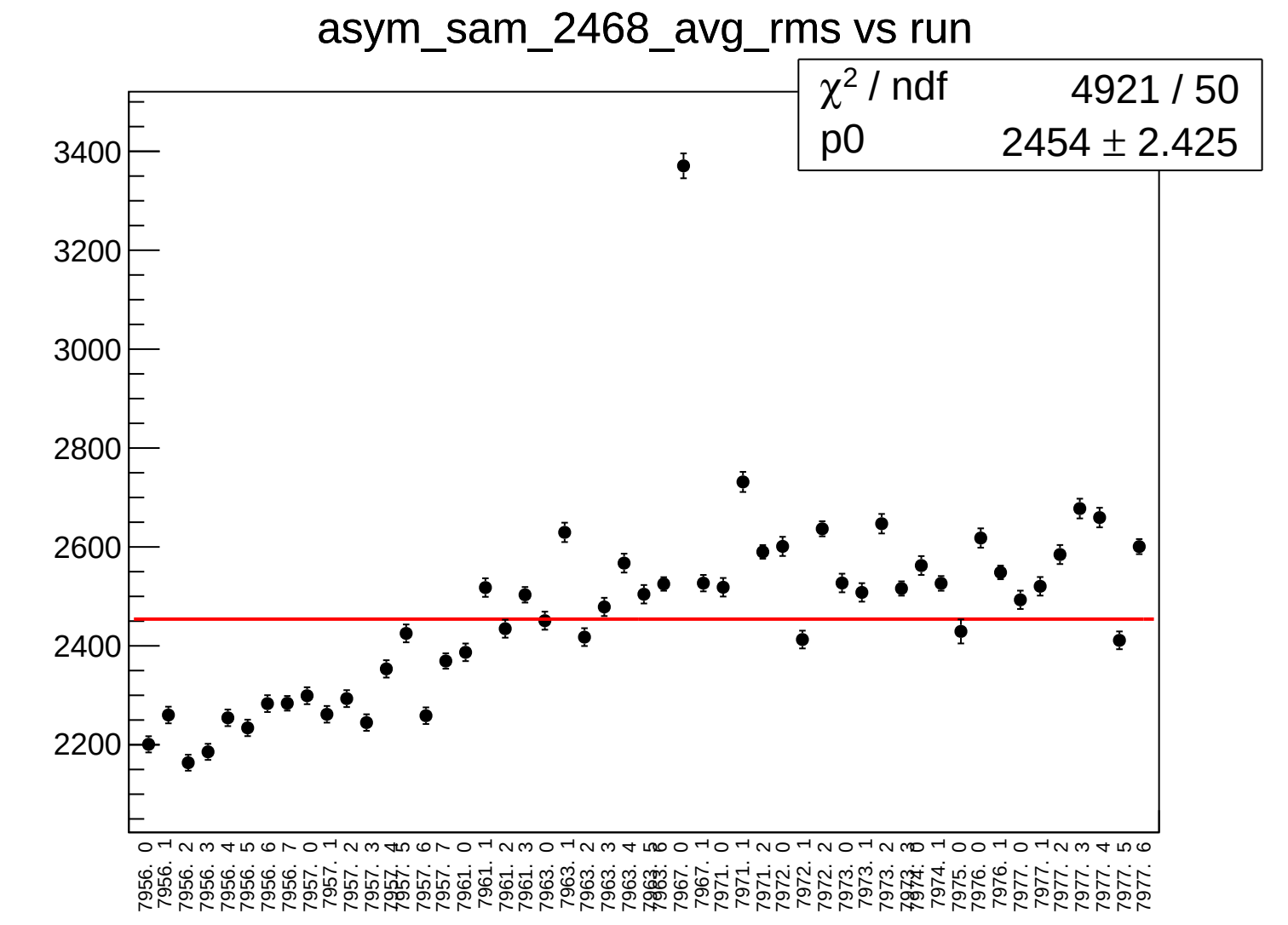
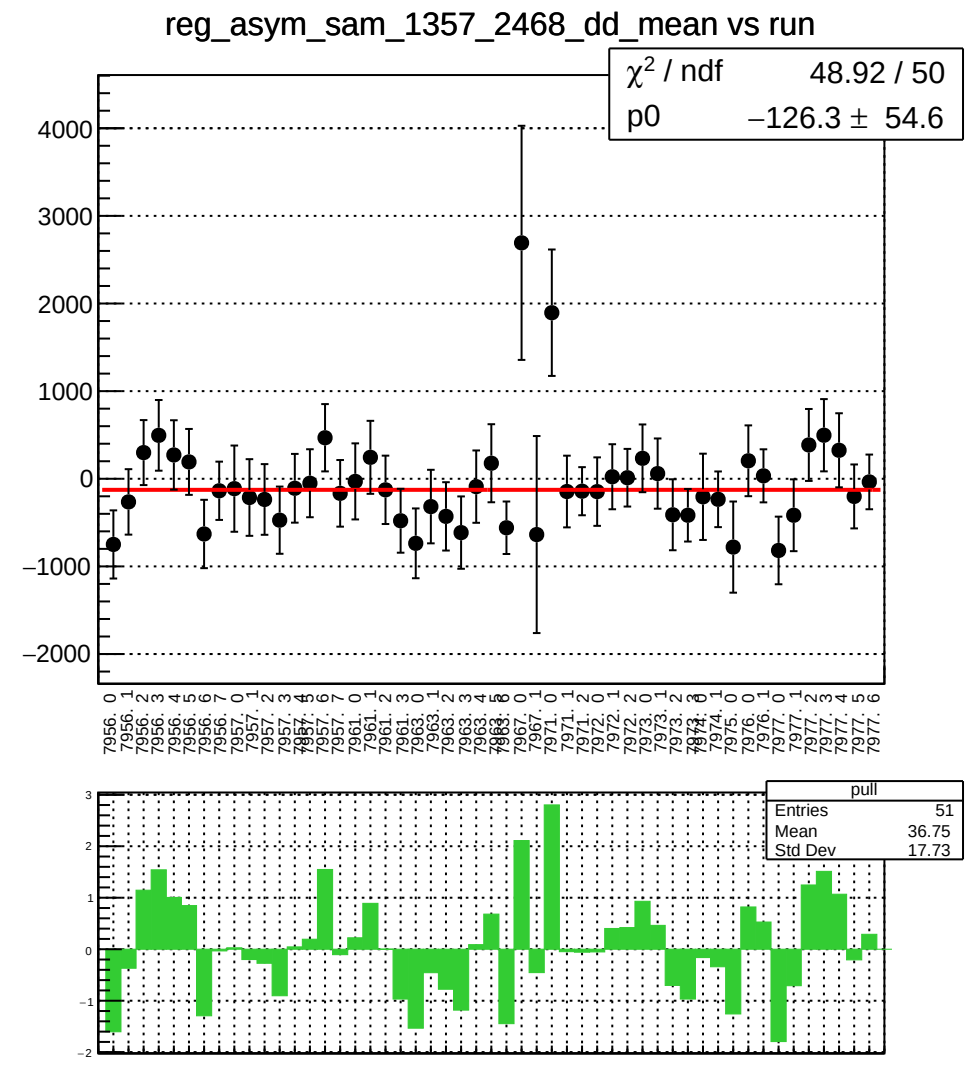
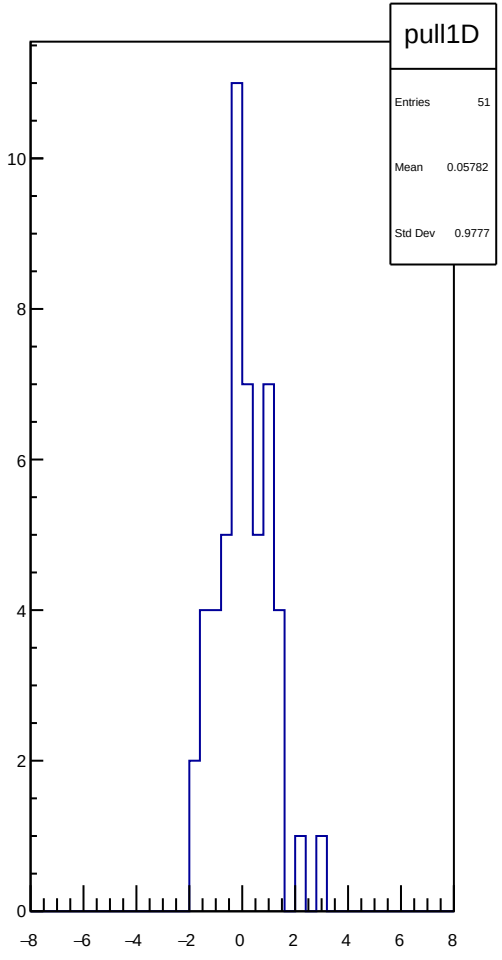
7977. 5
7977. 6

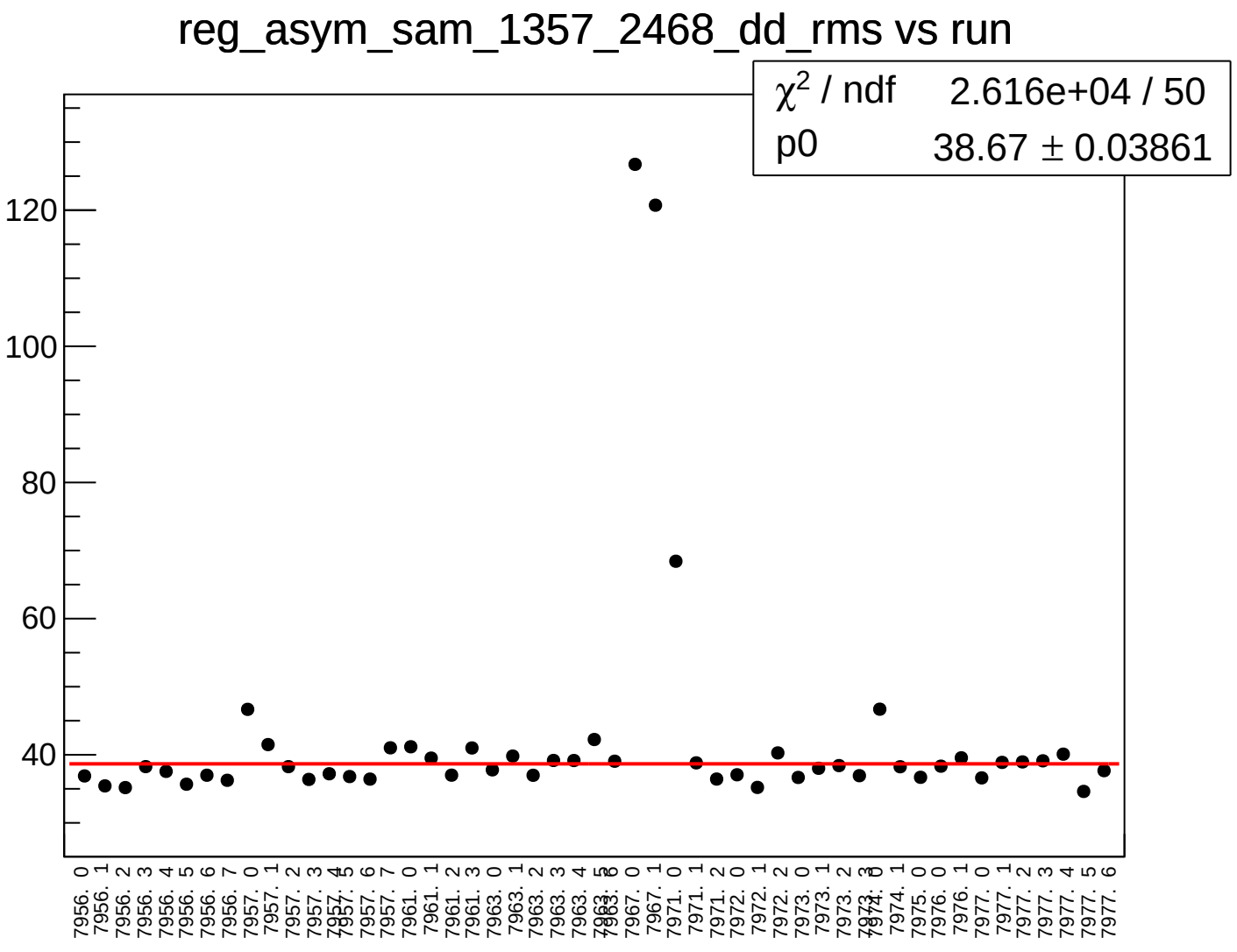

asym_sam_2468_avg_mean vs run
χ² / ndf 42.83 / 50
p0 1424 ± 3429
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 226.3
Std Dev 195.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.006541
Std Dev 0.9164
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_2468_avg_rms vs run
χ^2 / ndf 4921 / 50
p0 2454 ± 2.425
3400
3200
3000
2800
2600
2400
2200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 48.92 / 50
p0 −126.3 ± 54.6
pull
Entries 51
Mean 36.75
Std Dev 17.73


pull1D
Entries 51
Mean 0.05782
Std Dev 0.9777


reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.616e+04 / 50
p0 38.67 ± 0.03861
120
100
80
60
40
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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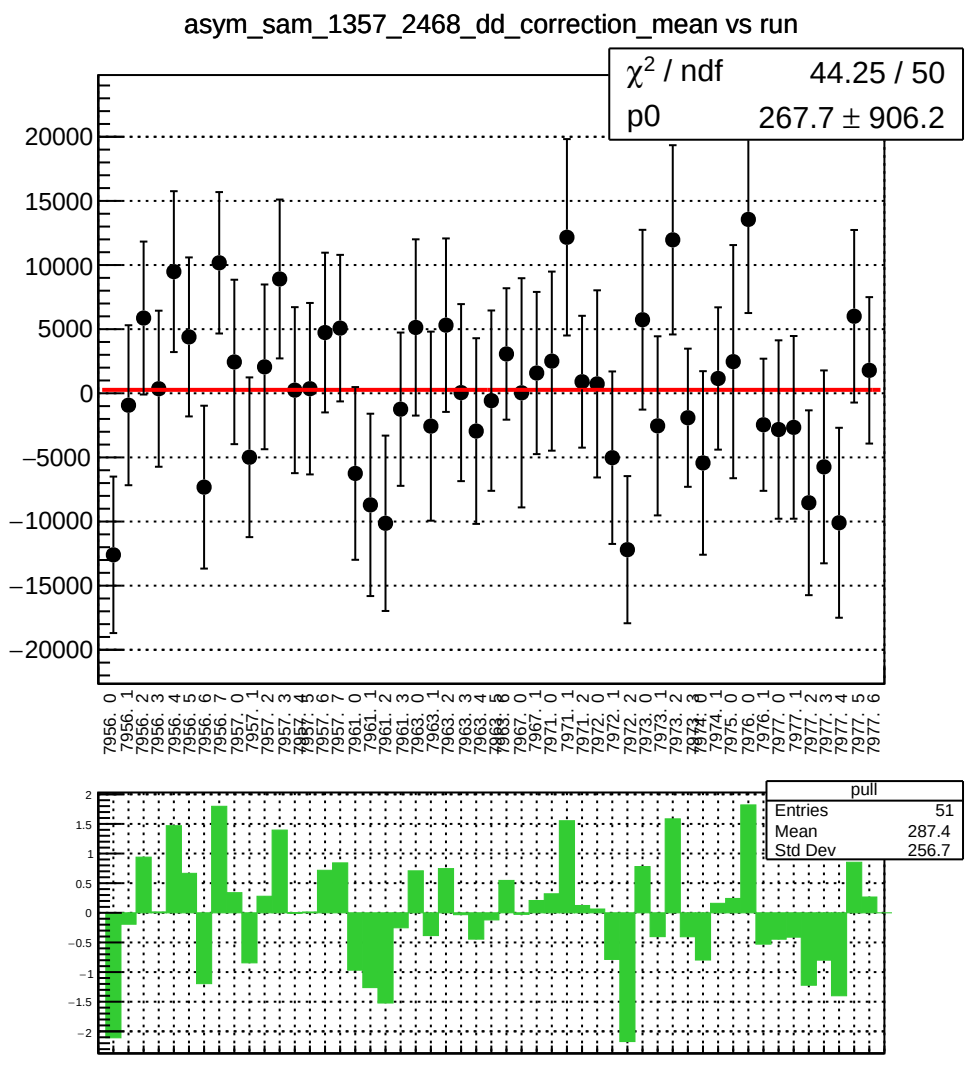
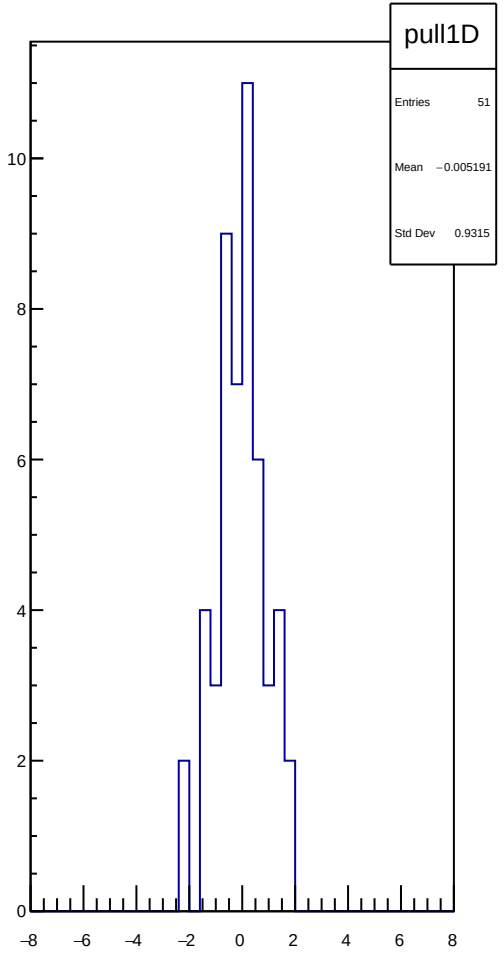
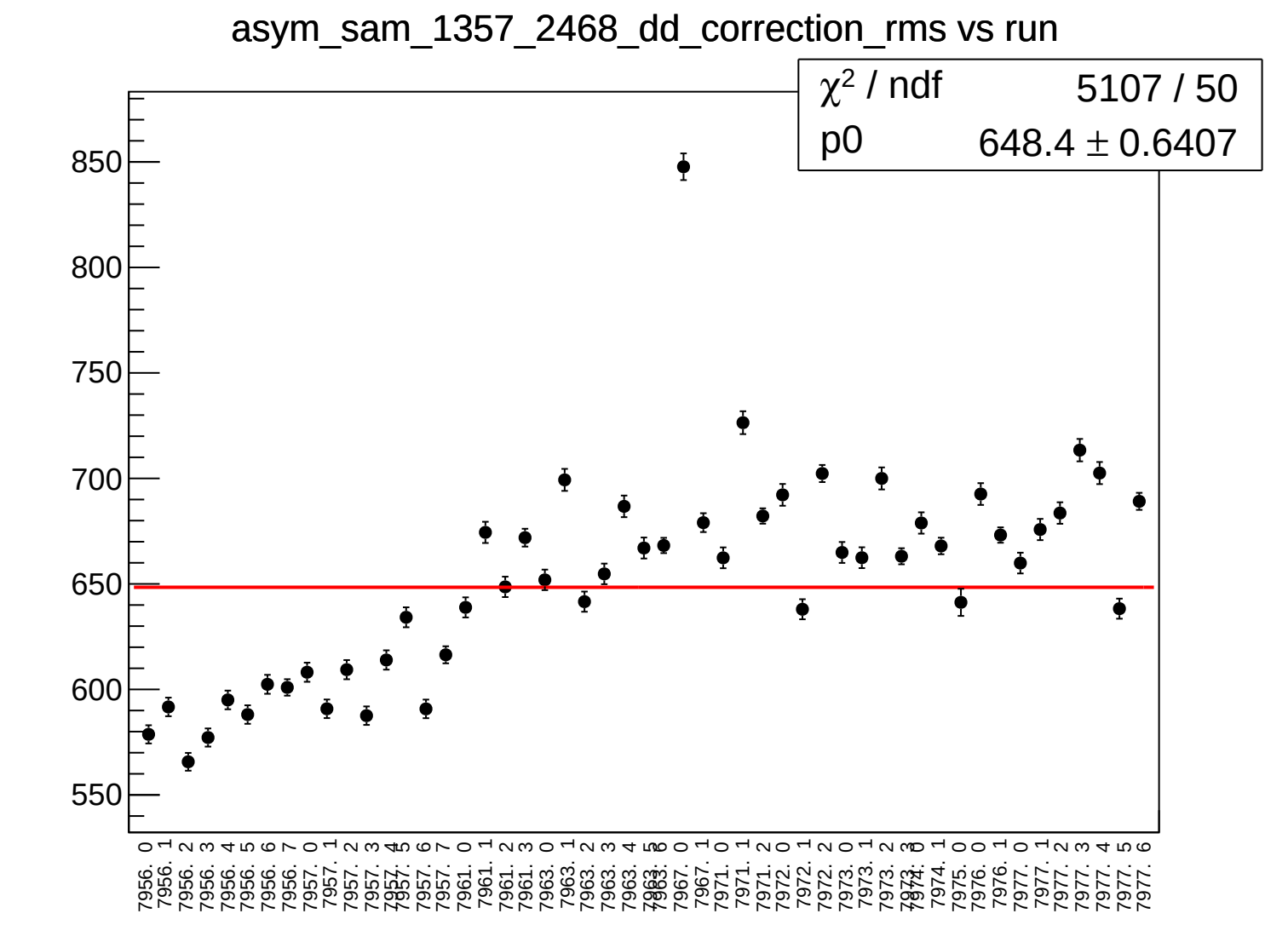
7977. 6


asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 44.25 / 50
p0 267.7 ± 906.2
pull
Entries 51
Mean 287.4
Std Dev 256.7


pull1D
Entries 51
Mean −0.005191
Std Dev 0.9315


asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 5107 / 50
p0 648.4 ± 0.6407
850
800
750
700
650
600
550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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7976. 1
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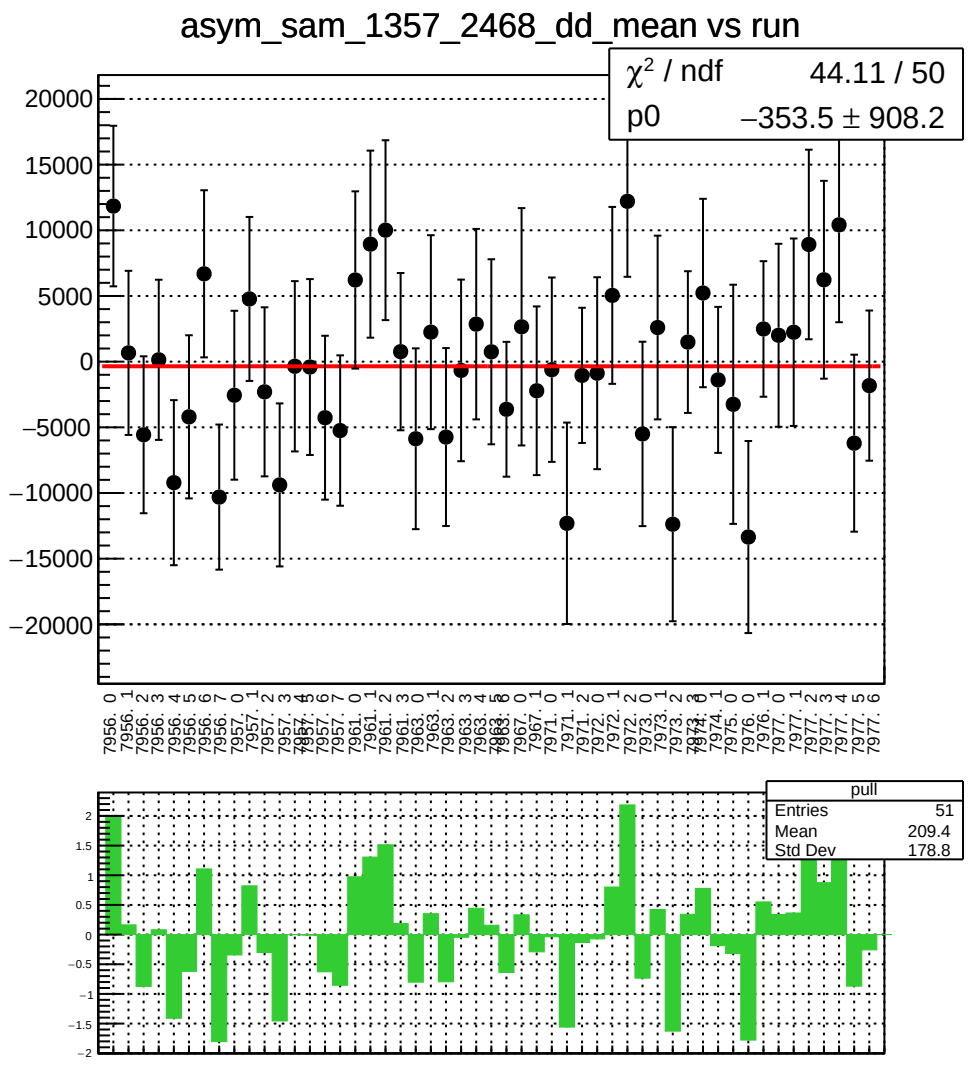
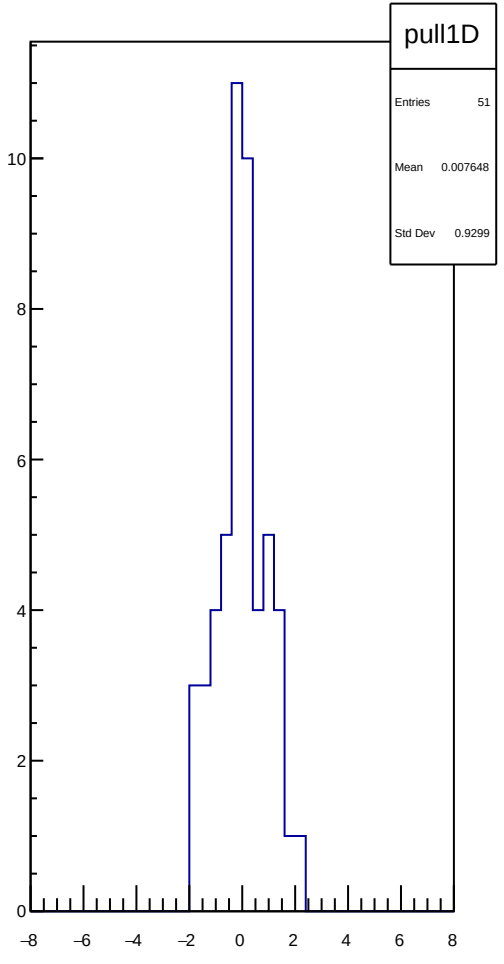
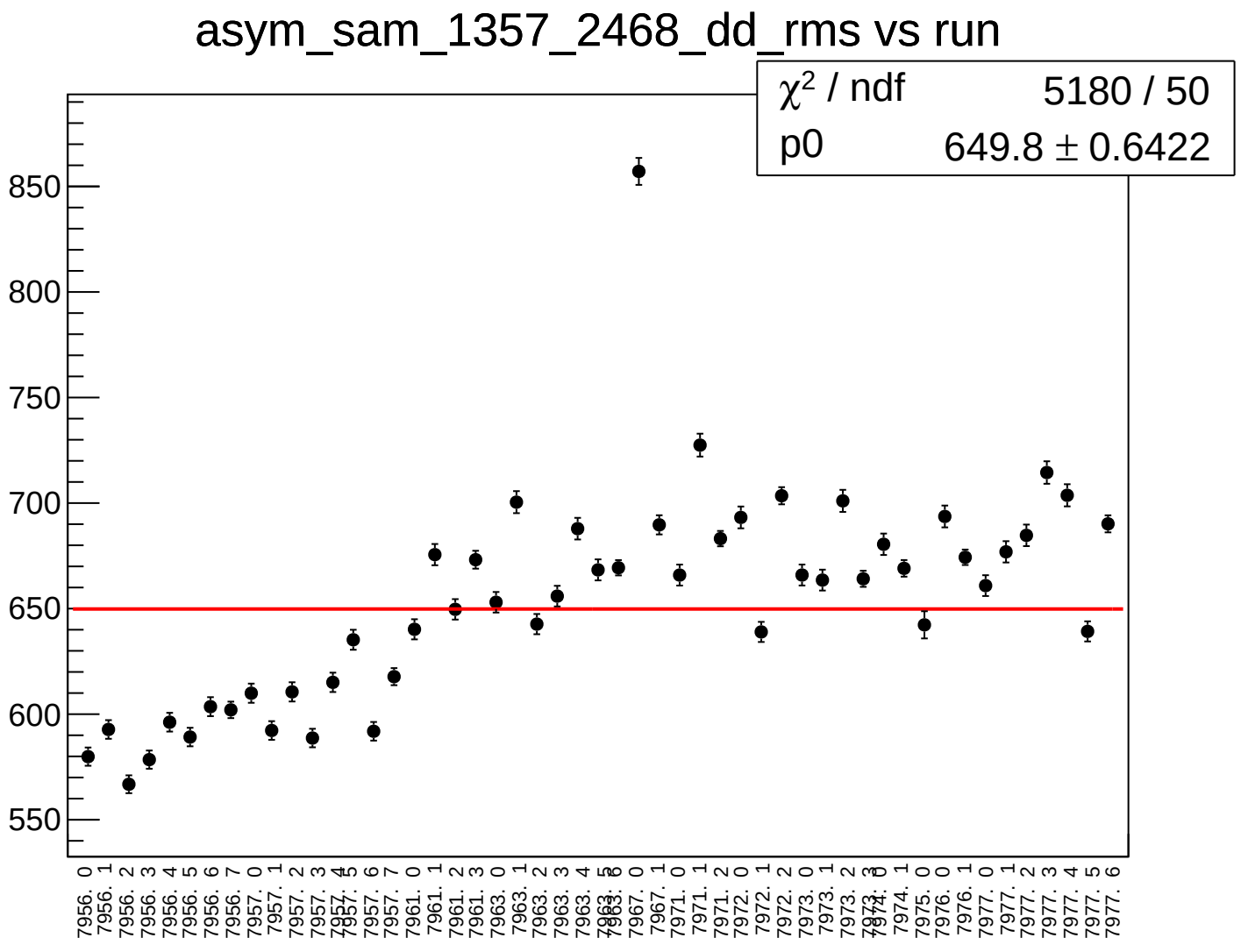
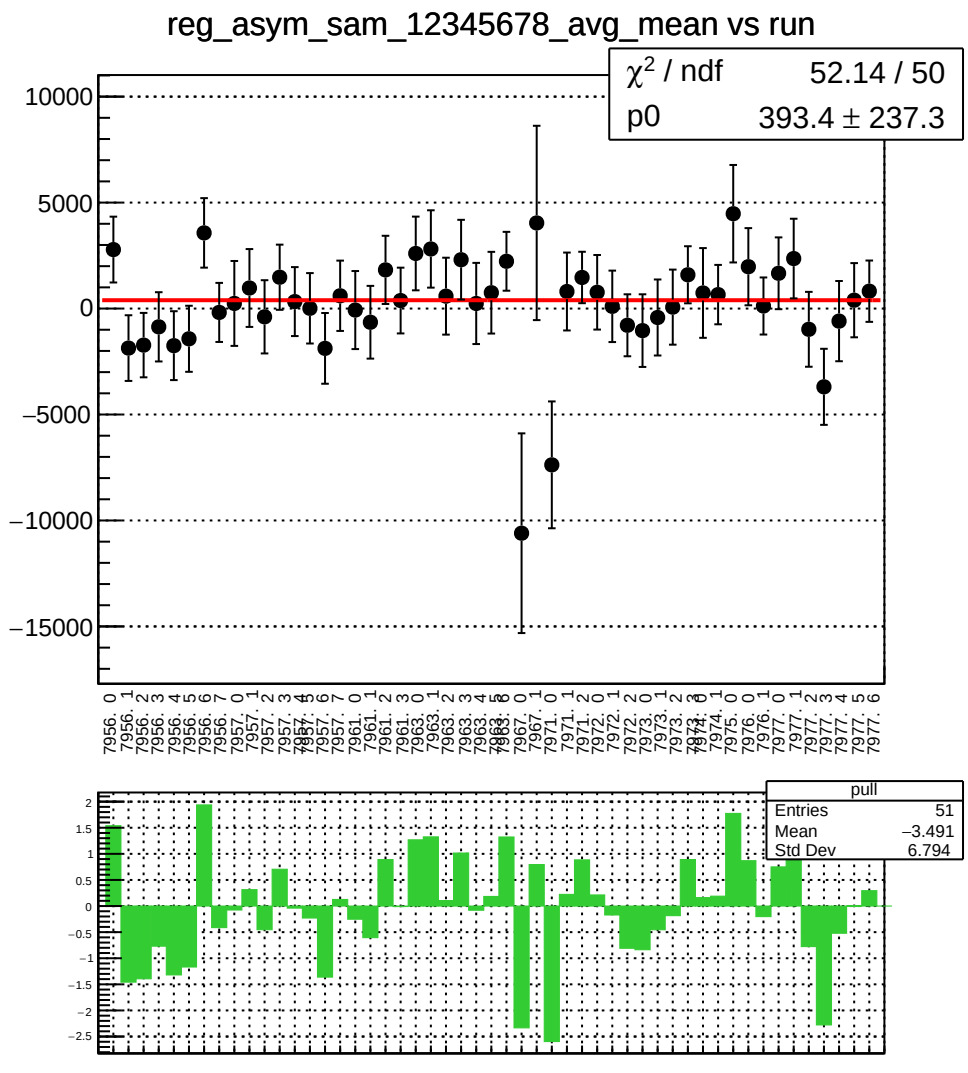
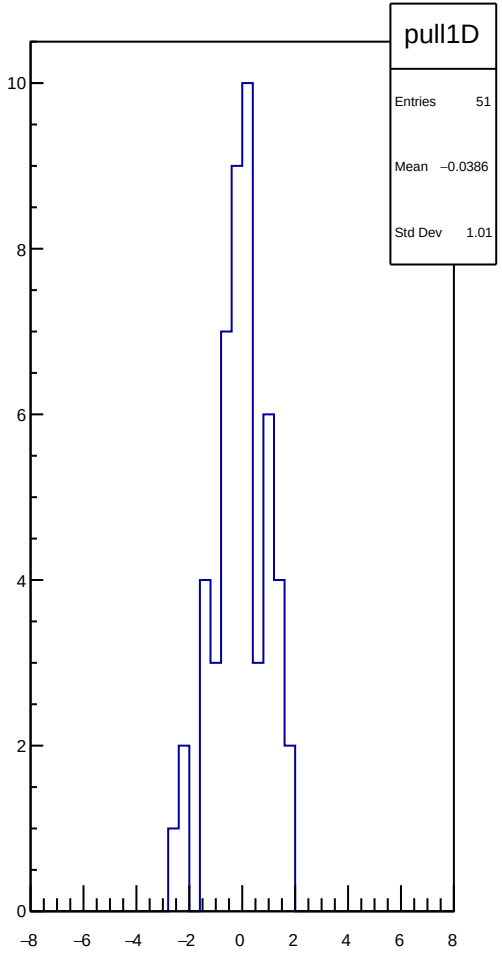
7977. 5
7977. 6

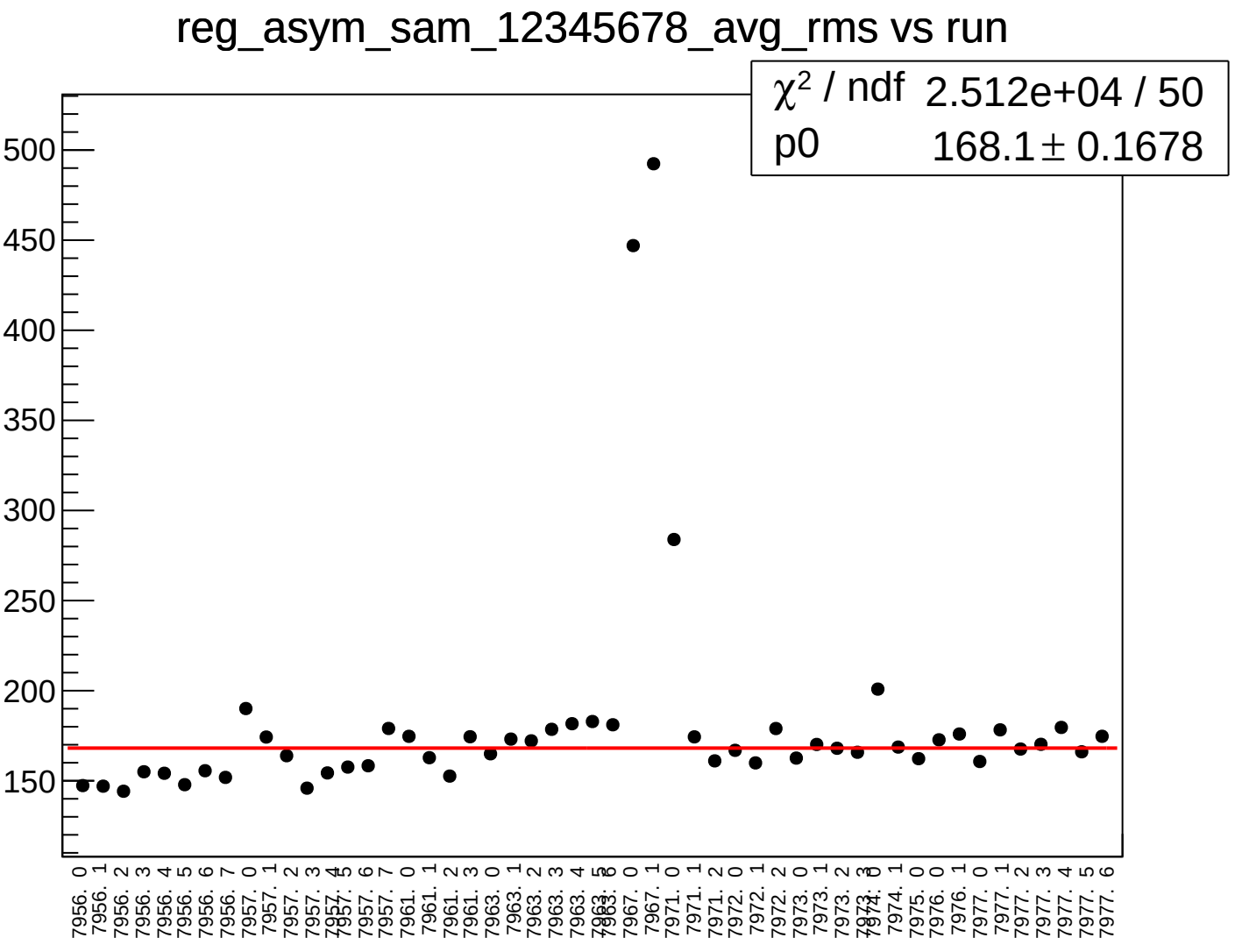

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 44.11 / 50
p0 −353.5 ± 908.2
pull
Entries 51
Mean 209.4
Std Dev 178.8

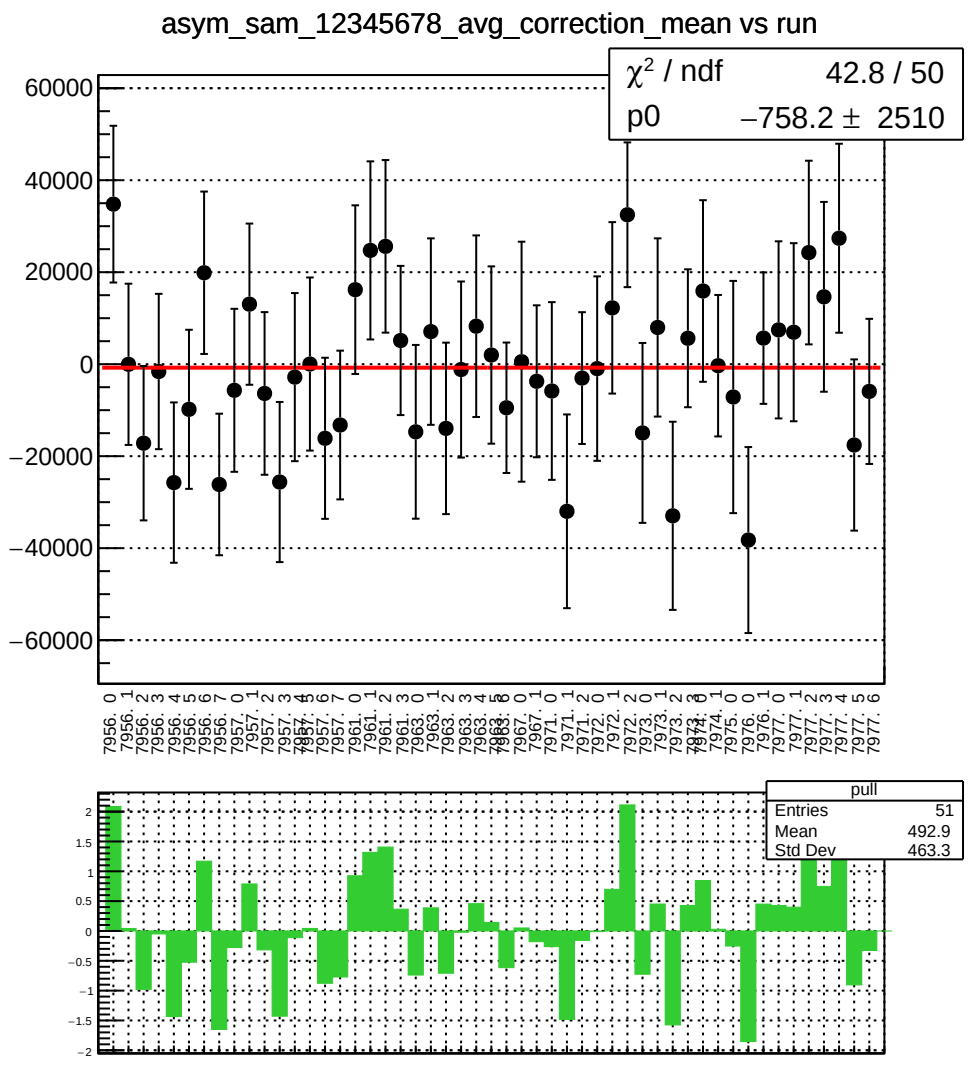

pull1D
Entries 51
Mean 0.007648
Std Dev 0.9299

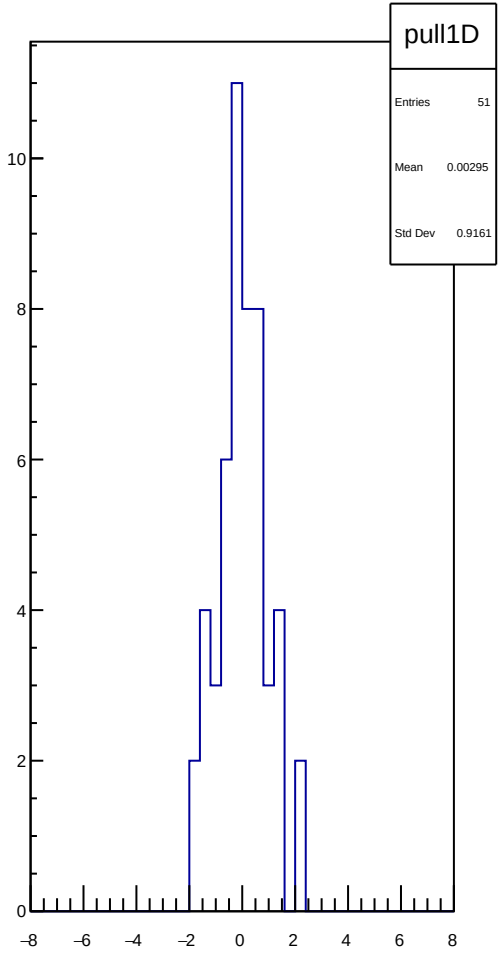

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5180 / 50
p0 649.8 ± 0.6422
850
800
750
700
650
600
550
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

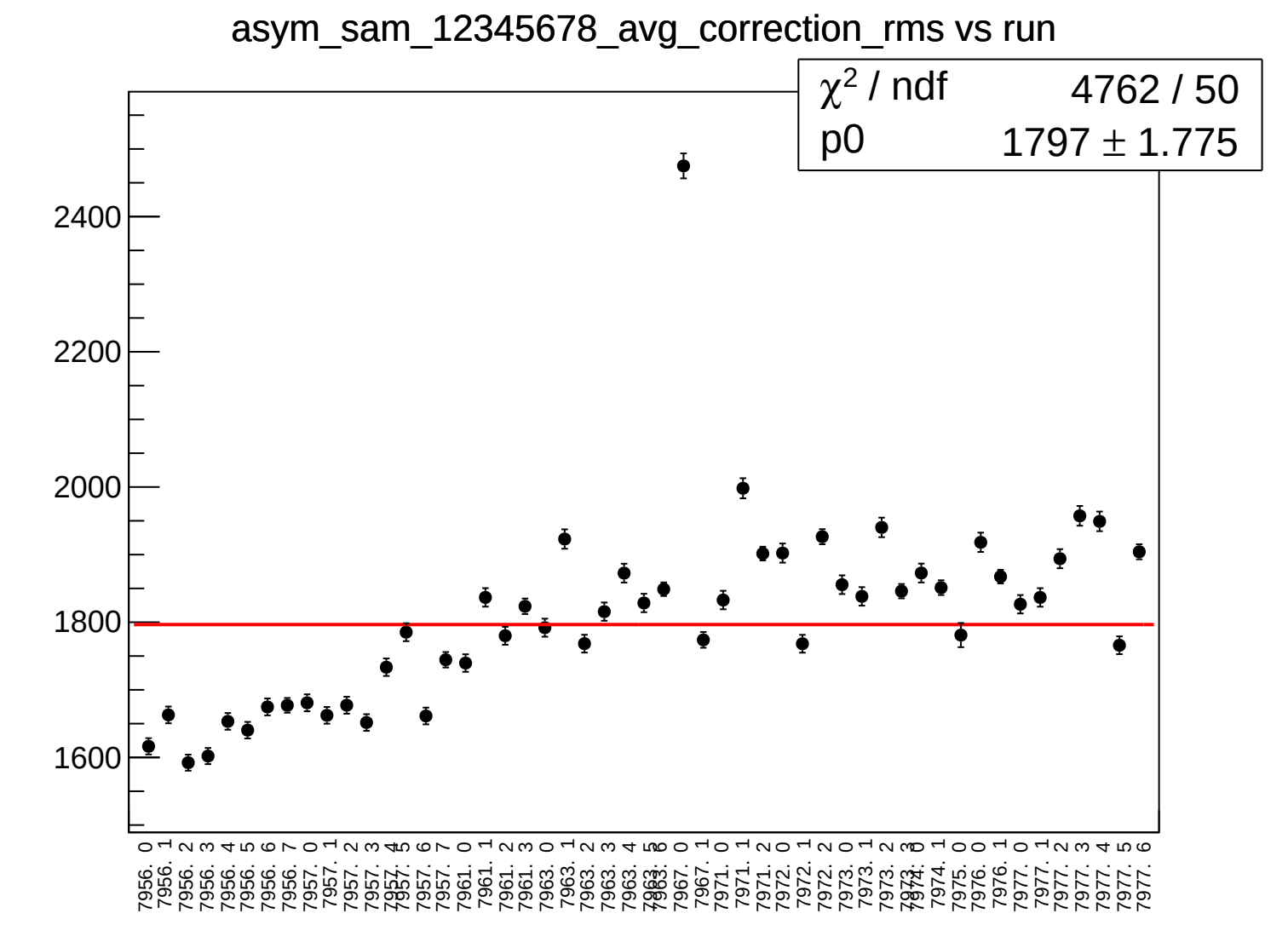

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 52.14 / 50
p0 393.4 ± 237.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean −3.491
Std Dev 6.794
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

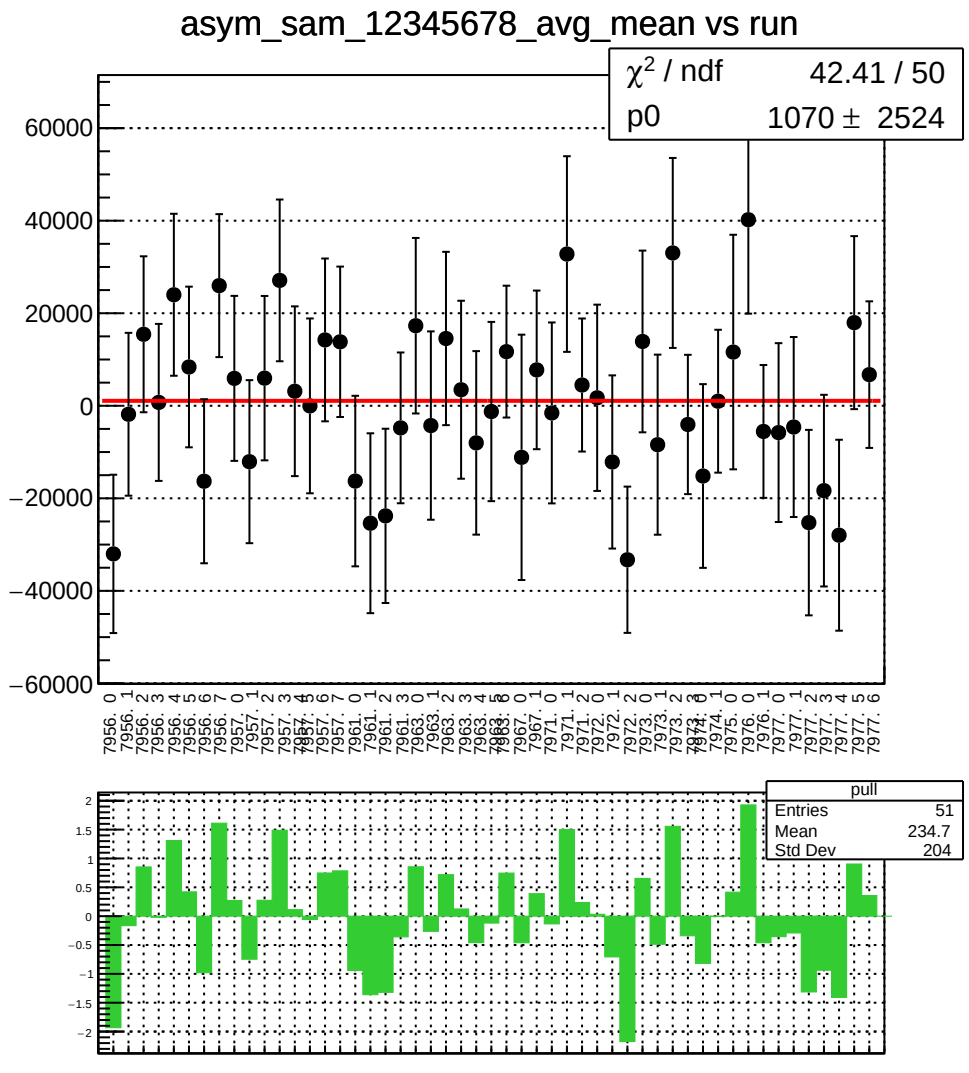

pull1D
Entries 51
Mean −0.0386
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

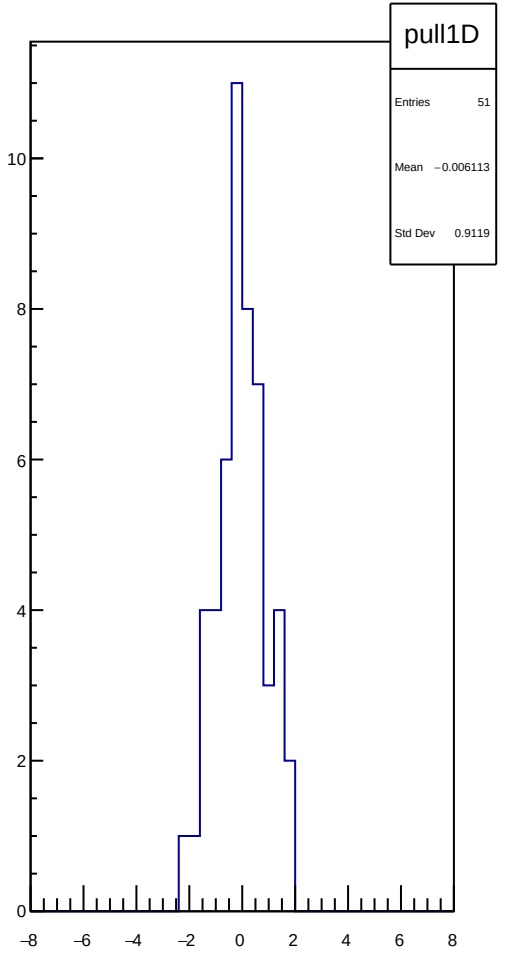

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.512e+04 / 50
p0 168.1 ± 0.1678
500
450
400
350
300
250
200
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

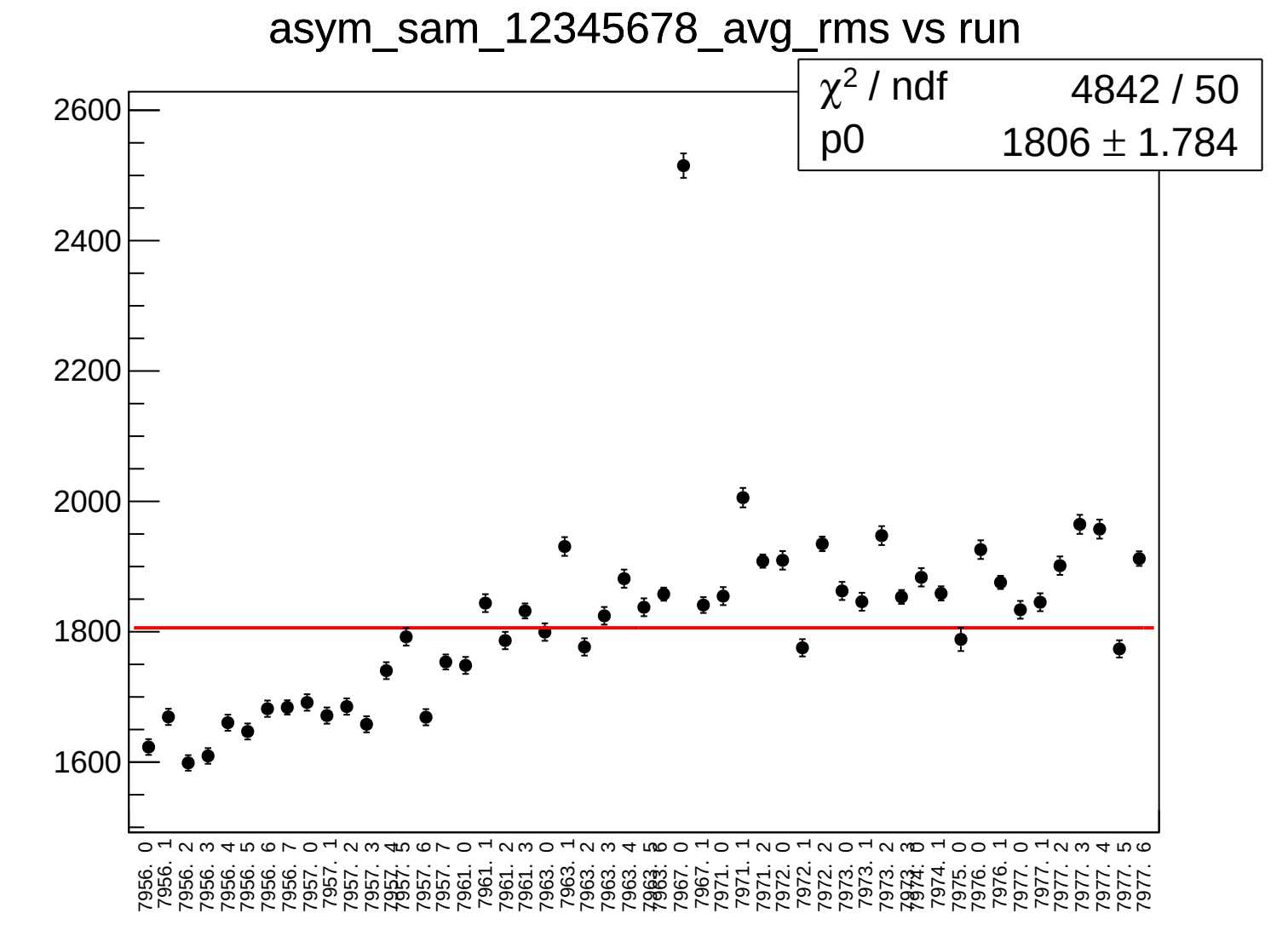

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 42.8 / 50
p0 −758.2 ± 2510
pull
Entries 51
Mean 492.9
Std Dev 463.3

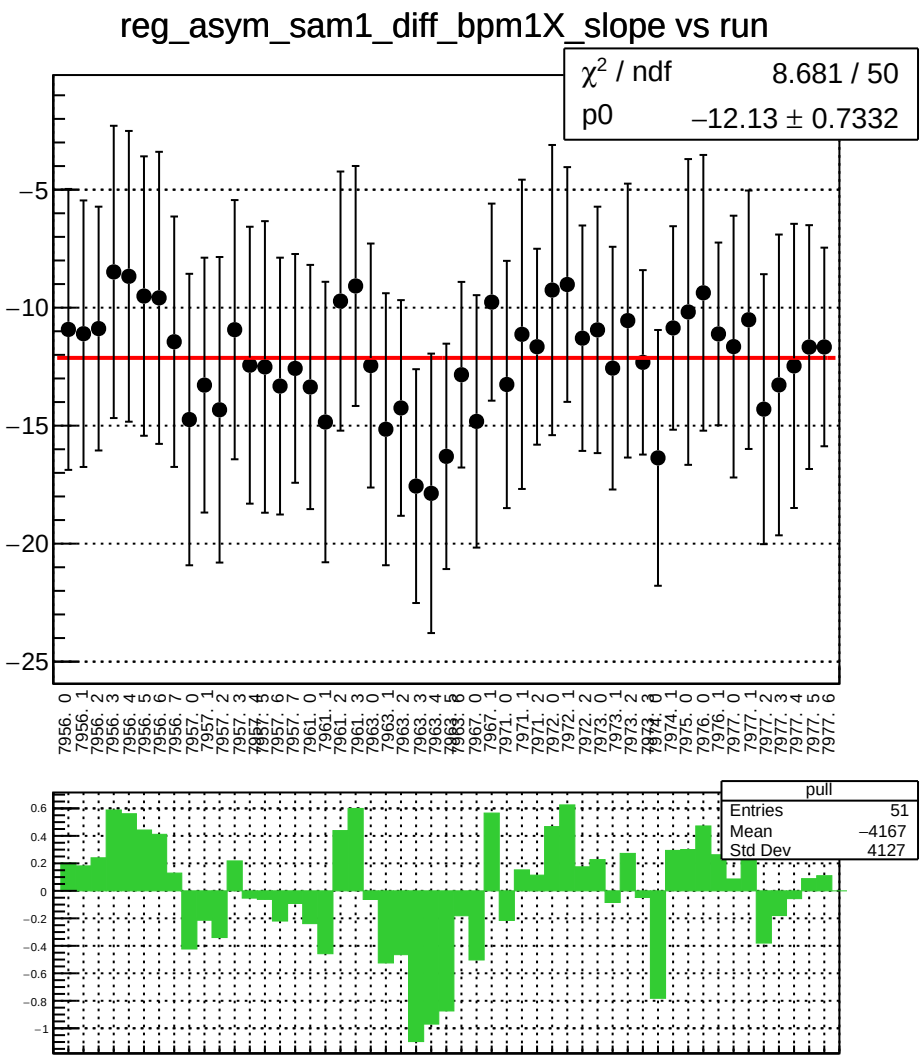

pull1D
Entries 51
Mean 0.00295
Std Dev 0.9161

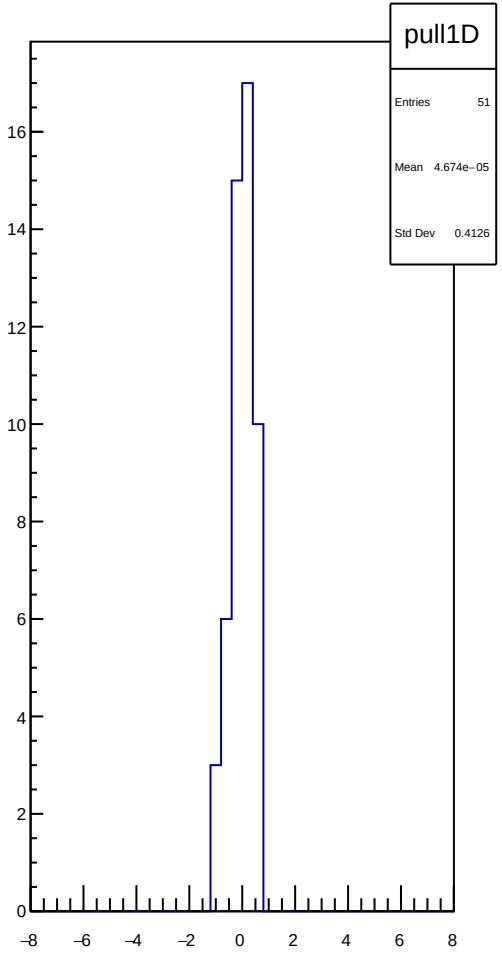

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 4762 / 50
p0 1797 ± 1.775
2400
2200
2000
1800
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

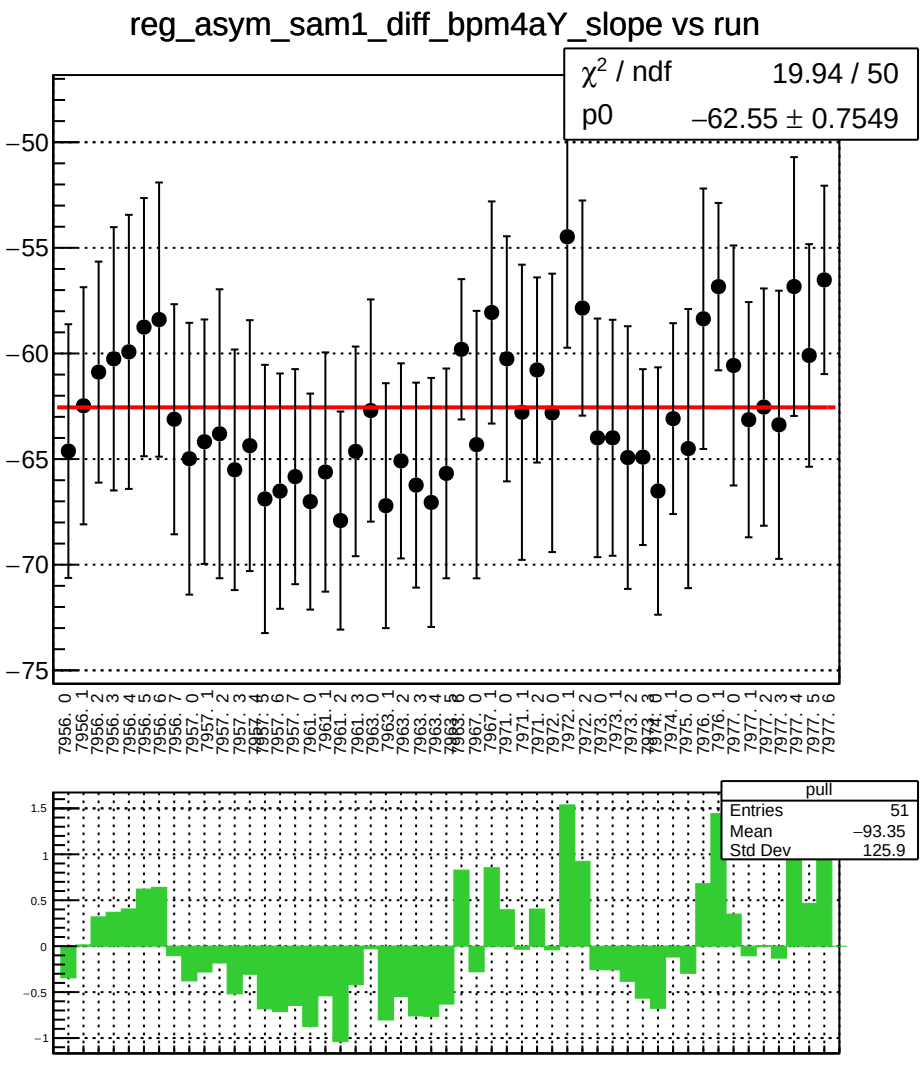

asym_sam_12345678_avg_mean vs run
χ² / ndf 42.41 / 50
p0 1070 ± 2524
pull
Entries 51
Mean 234.7
Std Dev 204

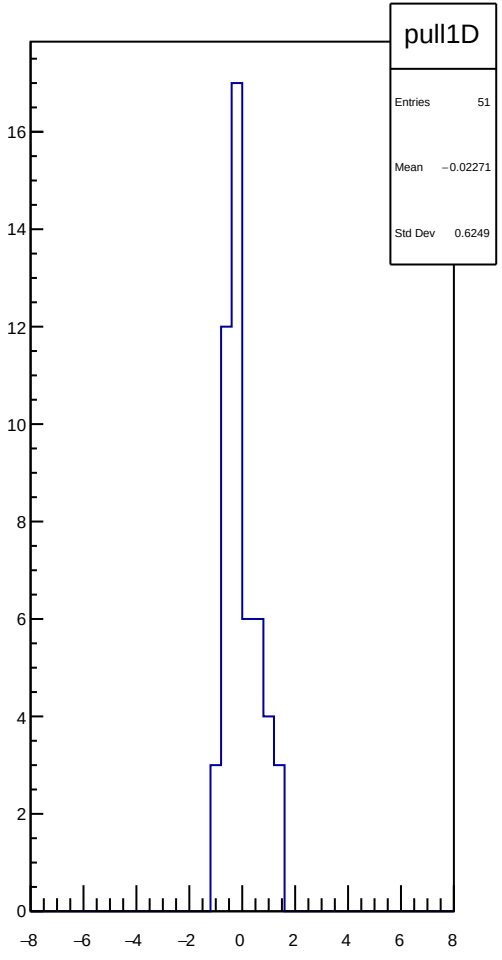

pull1D
Entries 51
Mean −0.006113
Std Dev 0.9119

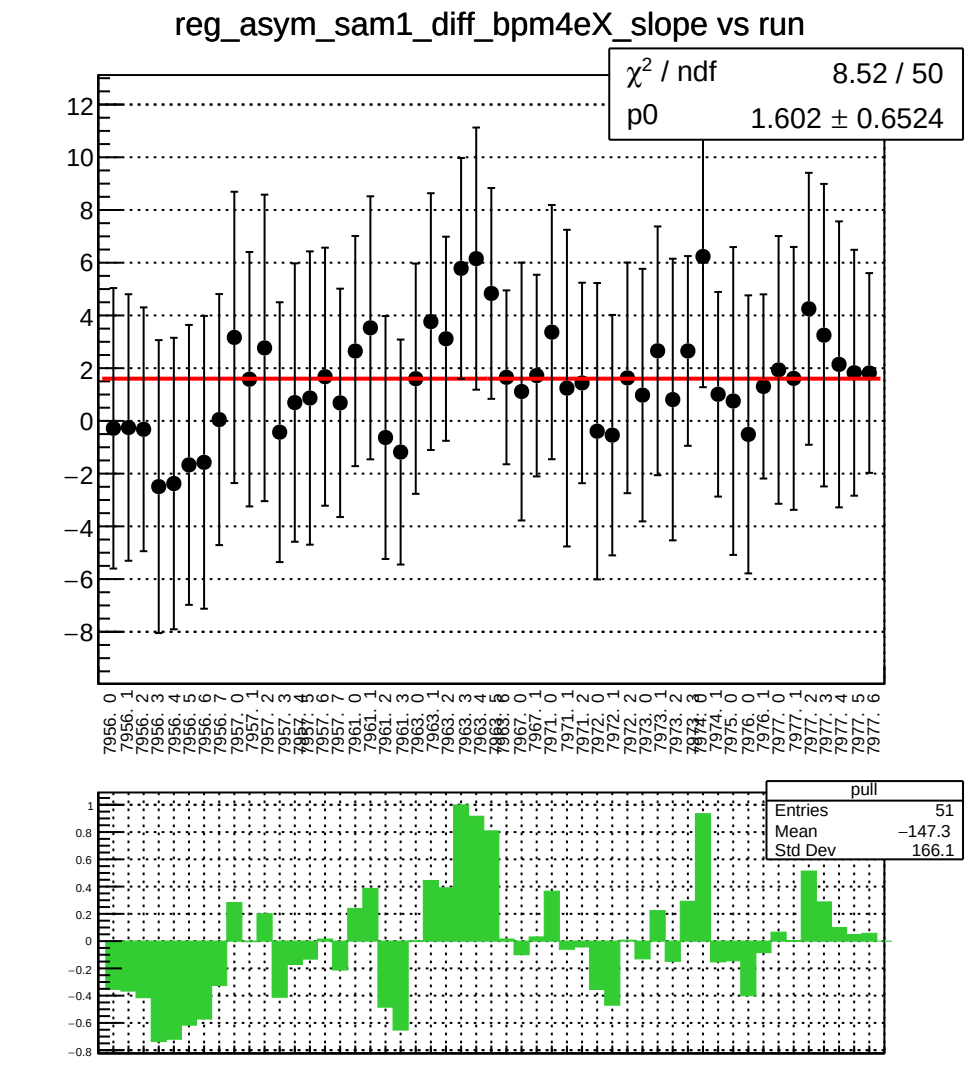

asym_sam_12345678_avg_rms vs run
χ² / ndf 4842 / 50
p0 1806 ± 1.784
2600
2400
2200
2000
1800
1600
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

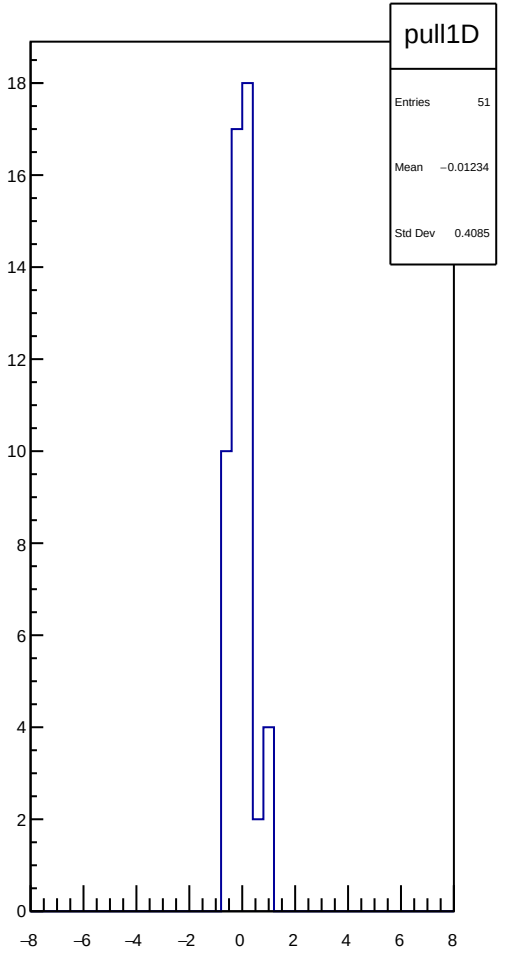

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 8.681 / 50
p0 −12.13 ± 0.7332
pull
Entries 51
Mean −4167
Std Dev 4127

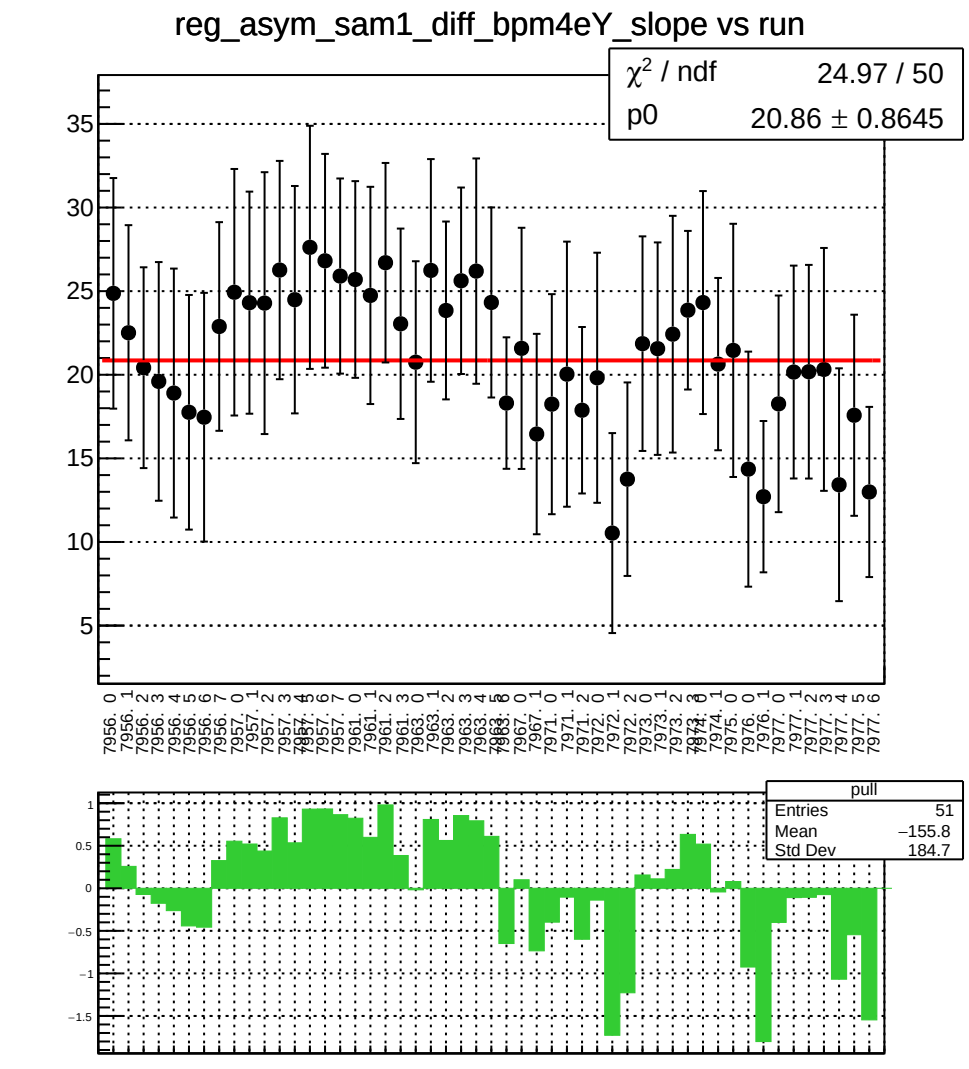

pull1D
Entries 51
Mean 4.674e−05
Std Dev 0.4126

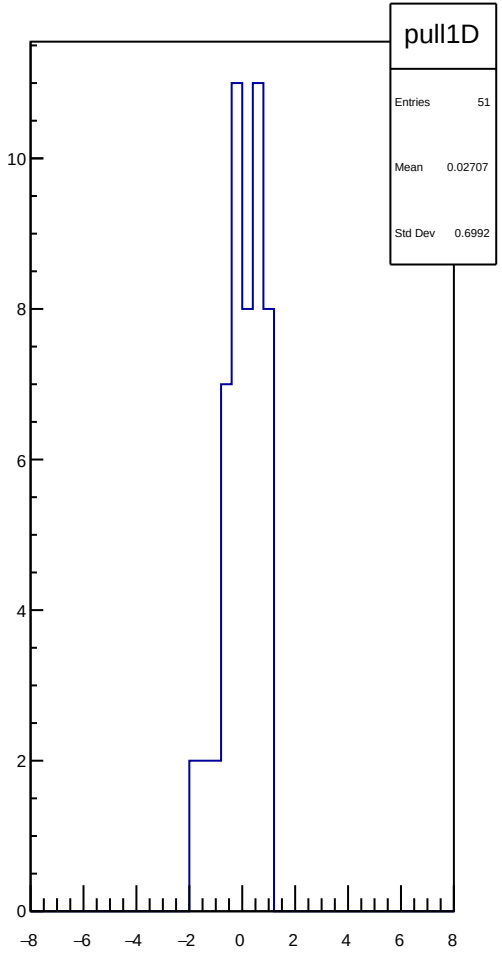

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 19.94 / 50
p0 −62.55 ± 0.7549
pull
Entries 51
Mean −93.35
Std Dev 125.9

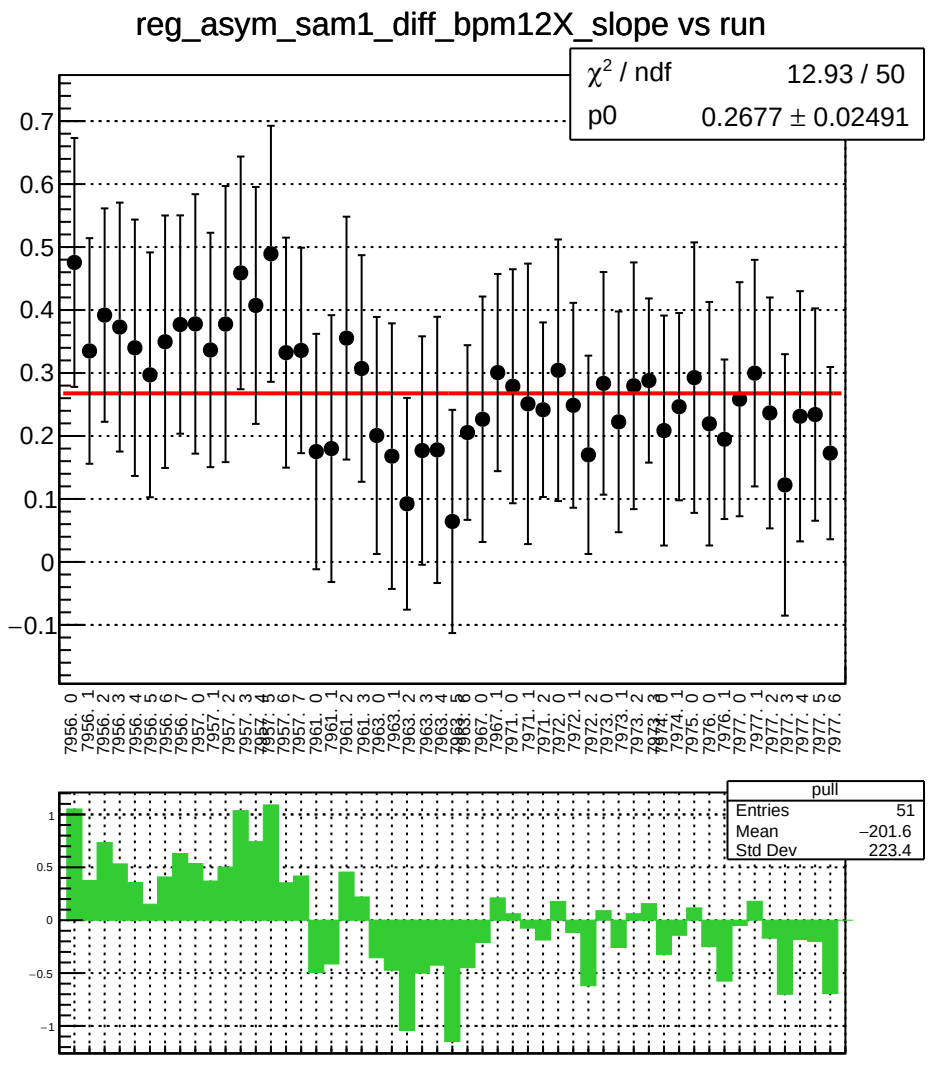

pull1D
Entries 51
Mean −0.02271
Std Dev 0.6249

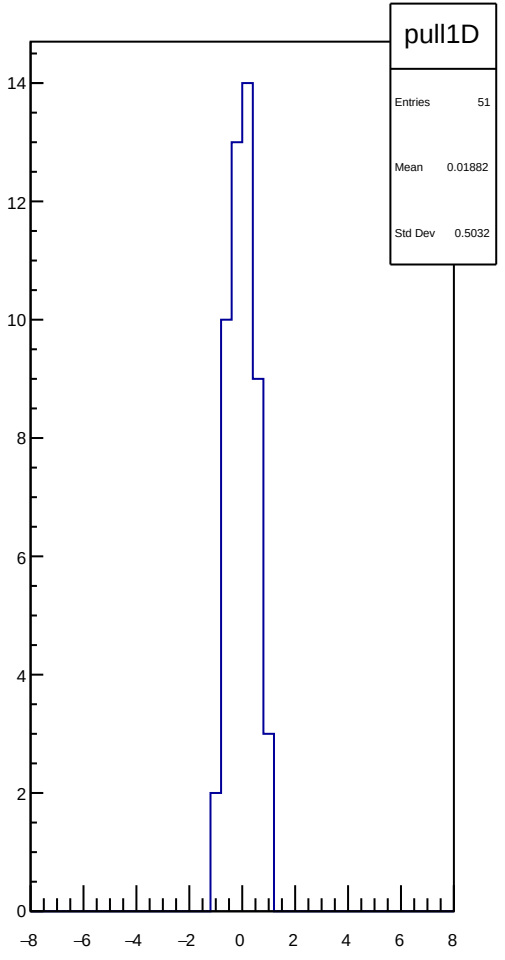

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 8.52 / 50
p0 1.602 ± 0.6524
pull
Entries 51
Mean −147.3
Std Dev 166.1

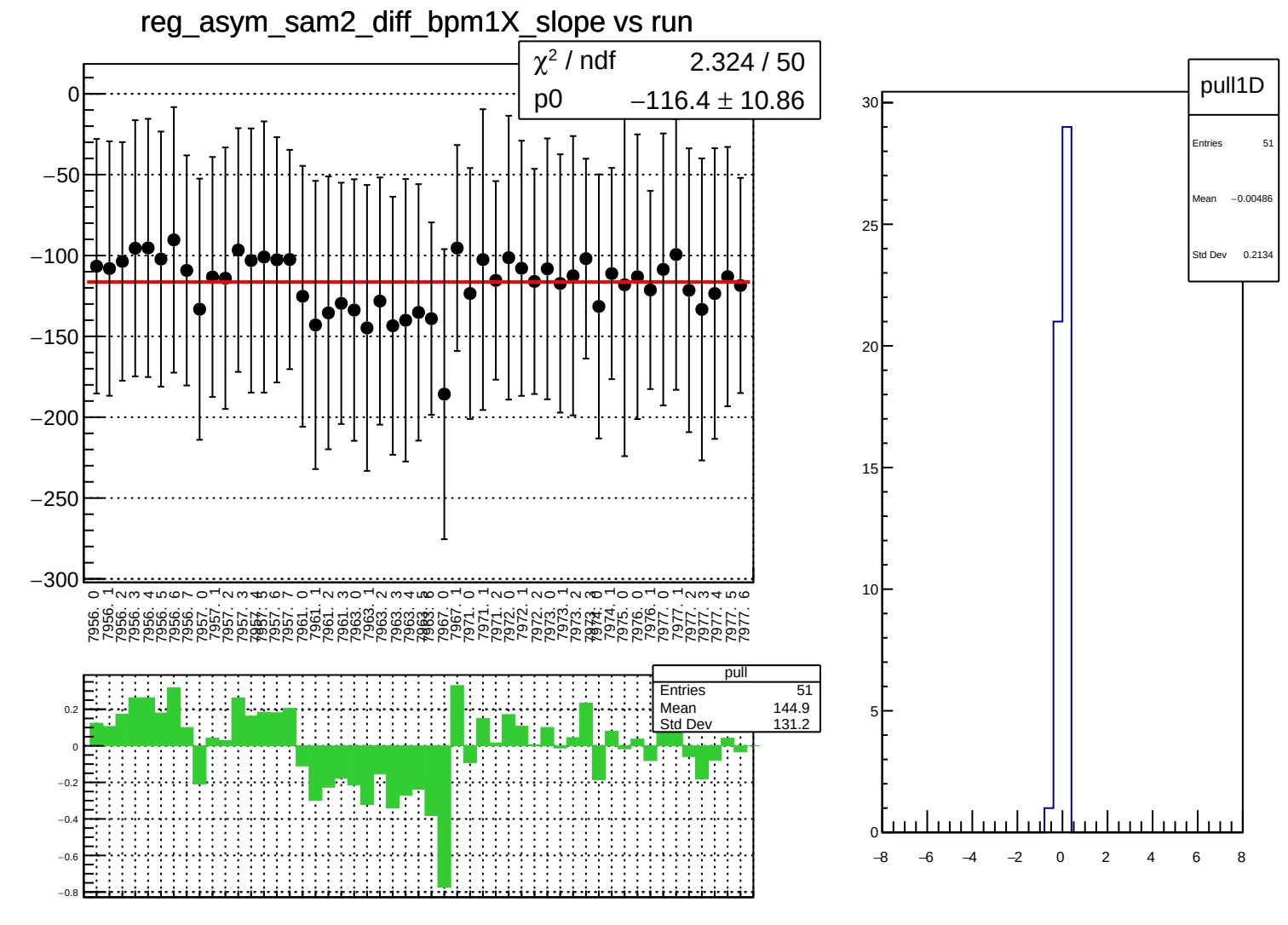

pull1D
Entries 51
Mean −0.01234
Std Dev 0.4085

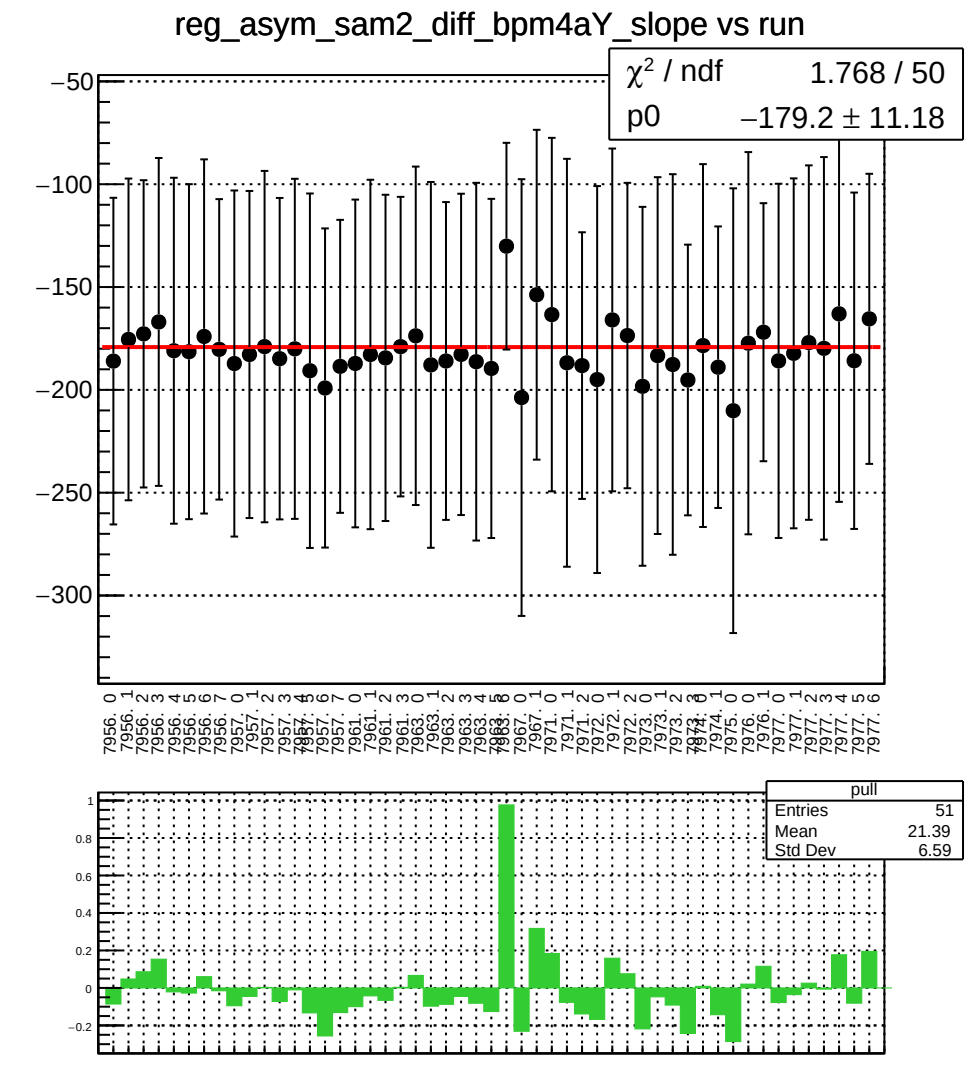

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 24.97 / 50
p0 20.86 ± 0.8645
pull
Entries 51
Mean −155.8
Std Dev 184.7

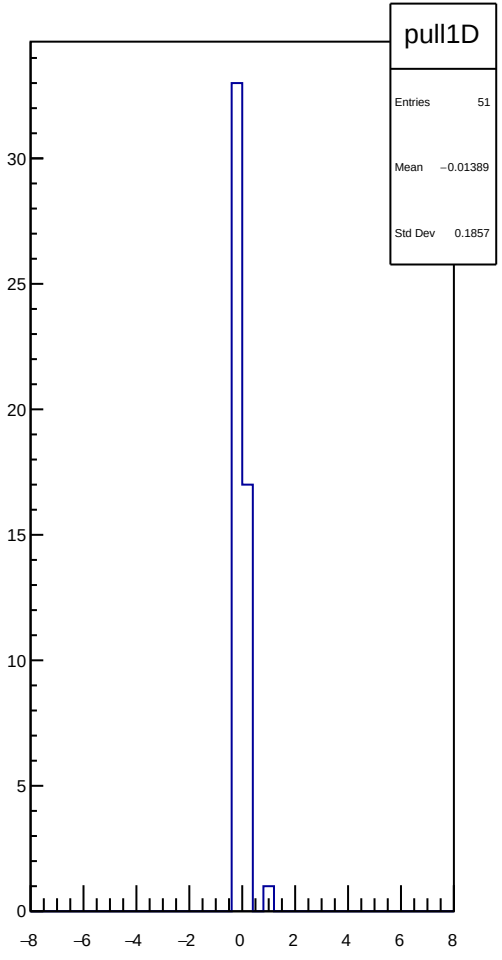

pull1D
Entries 51
Mean 0.02707
Std Dev 0.6992

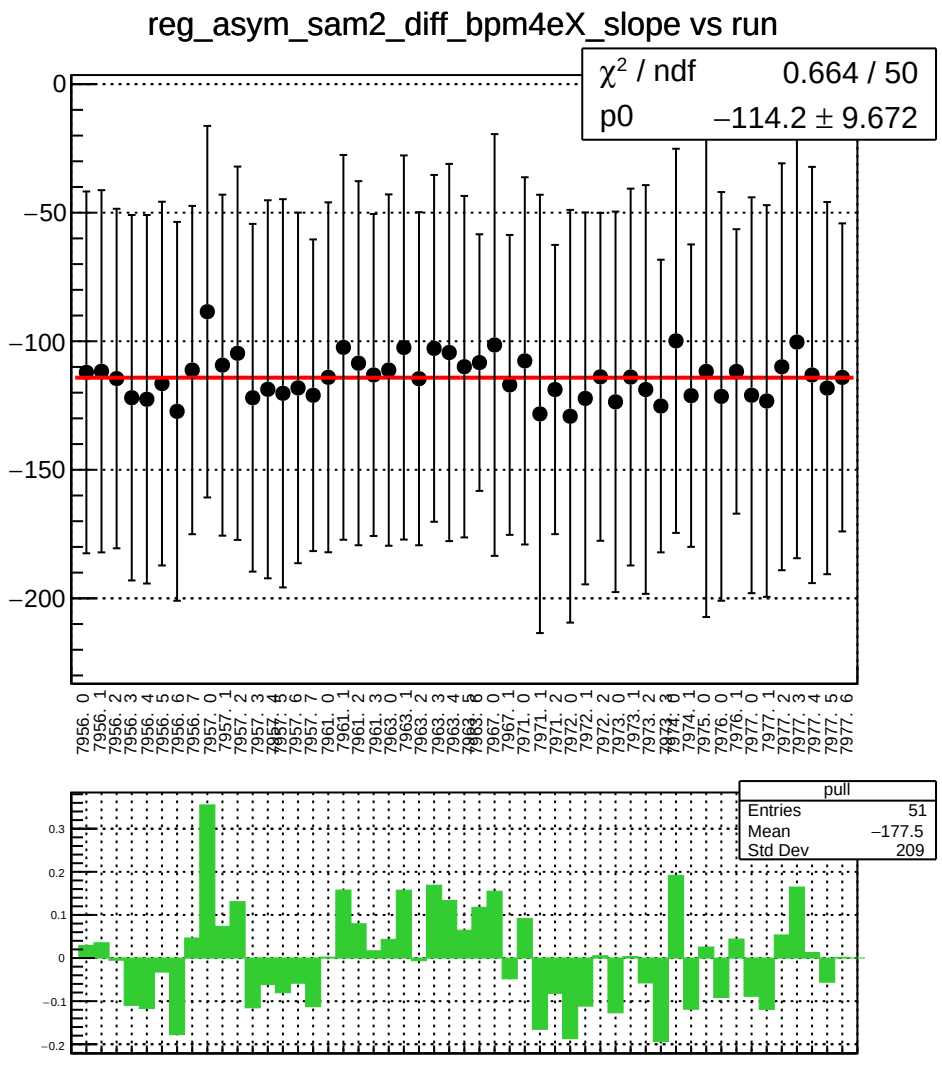

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 12.93 / 50
p0 0.2677 ± 0.02491
pull
Entries 51
Mean −201.6
Std Dev 223.4

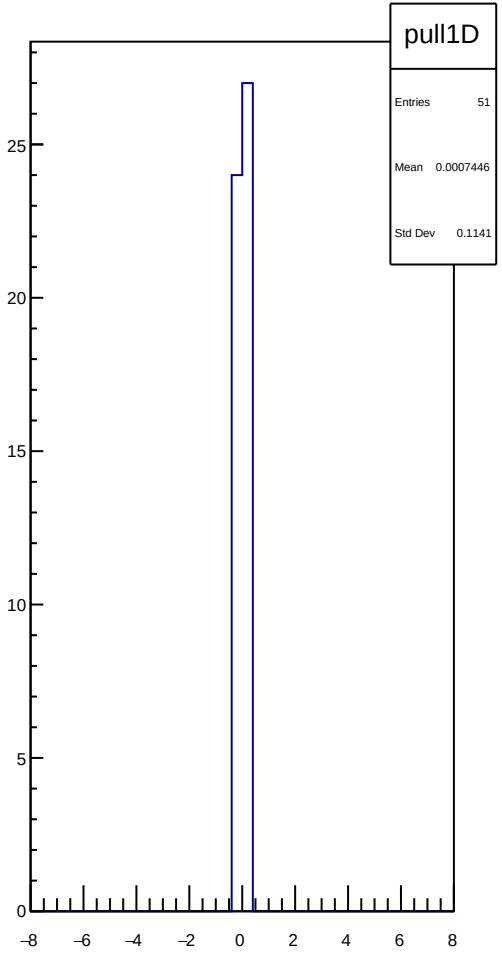

pull1D
Entries 51
Mean 0.01882
Std Dev 0.5032

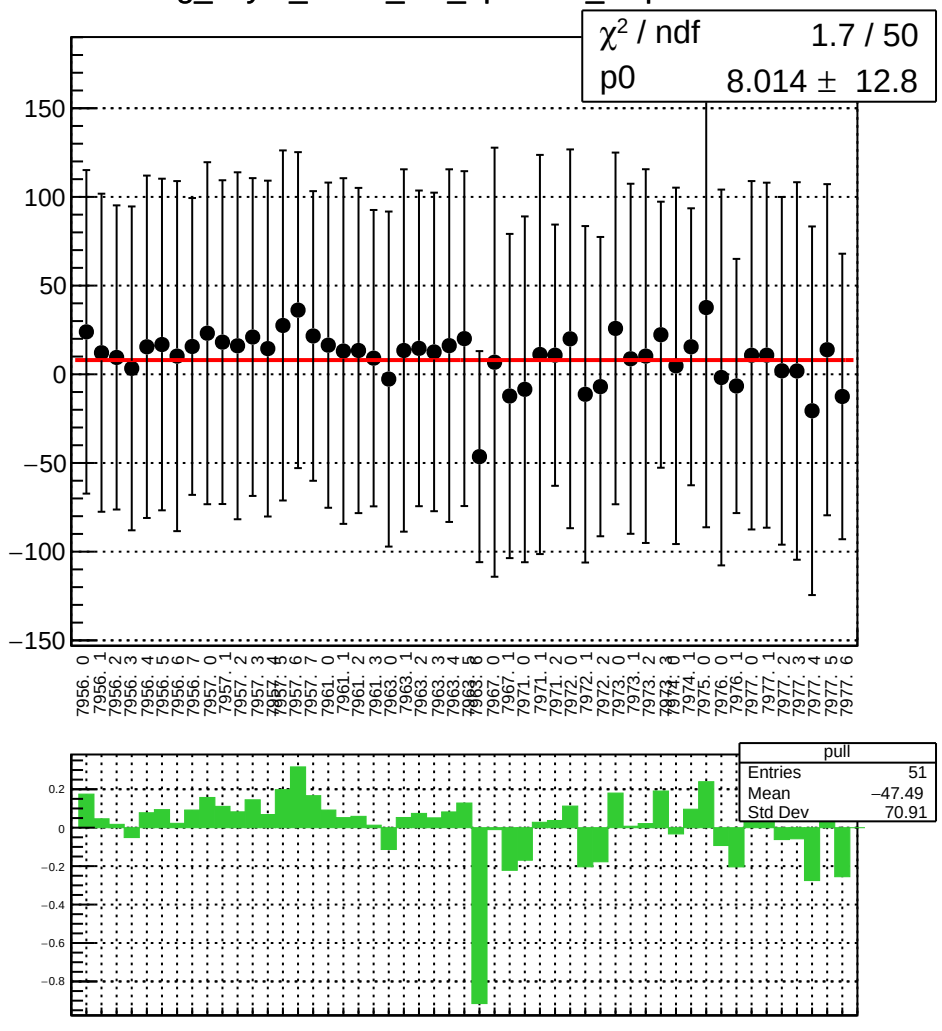

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.324 / 50
p0 −116.4 ± 10.86
pull
Entries 51
Mean 144.9
Std Dev 131.2
pull1D
Entries 51
Mean −0.00486
Std Dev 0.2134

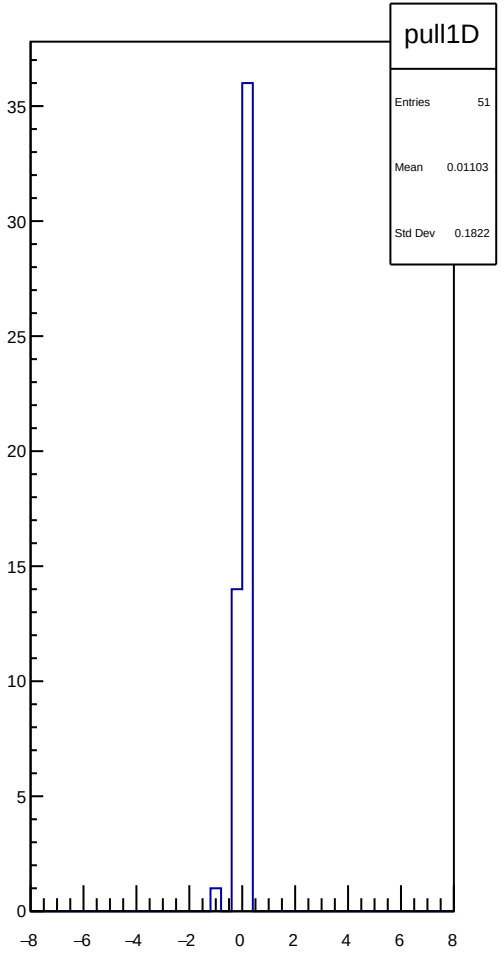

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.768 / 50
p0 −179.2 ± 11.18
pull
Entries 51
Mean 21.39
Std Dev 6.59

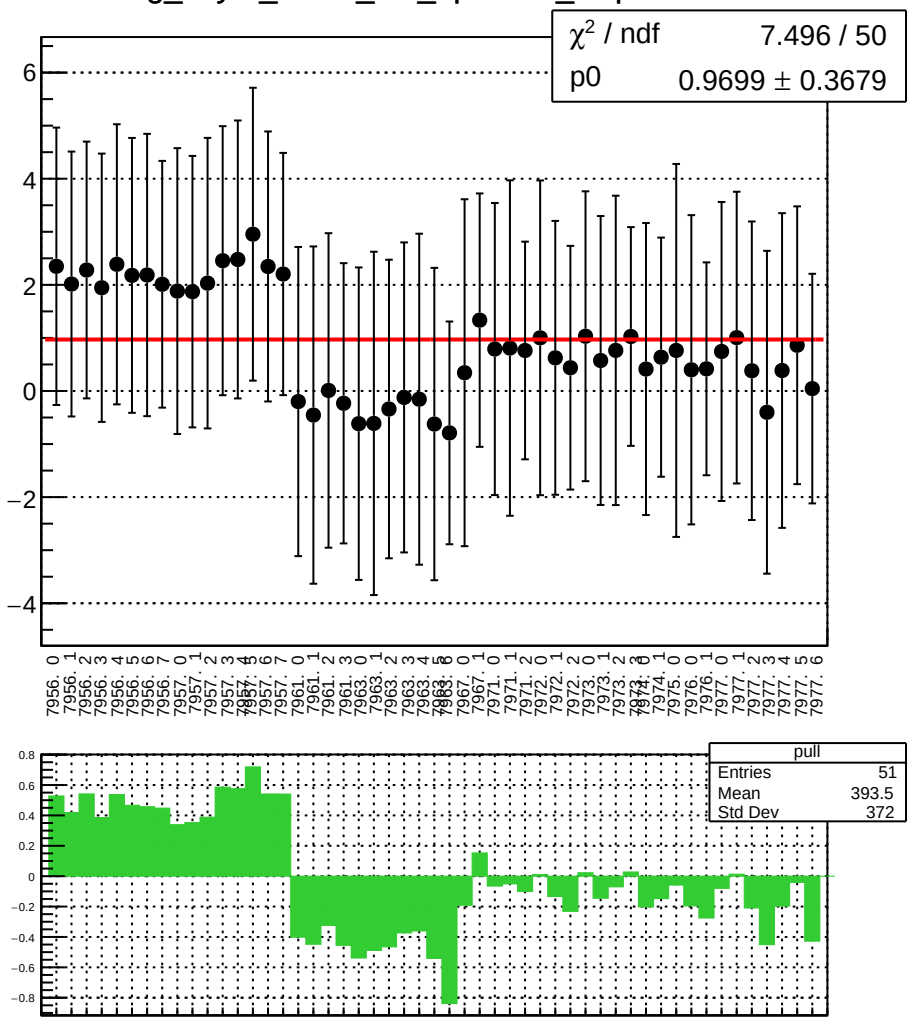

pull1D
Entries 51
Mean −0.01389
Std Dev 0.1857

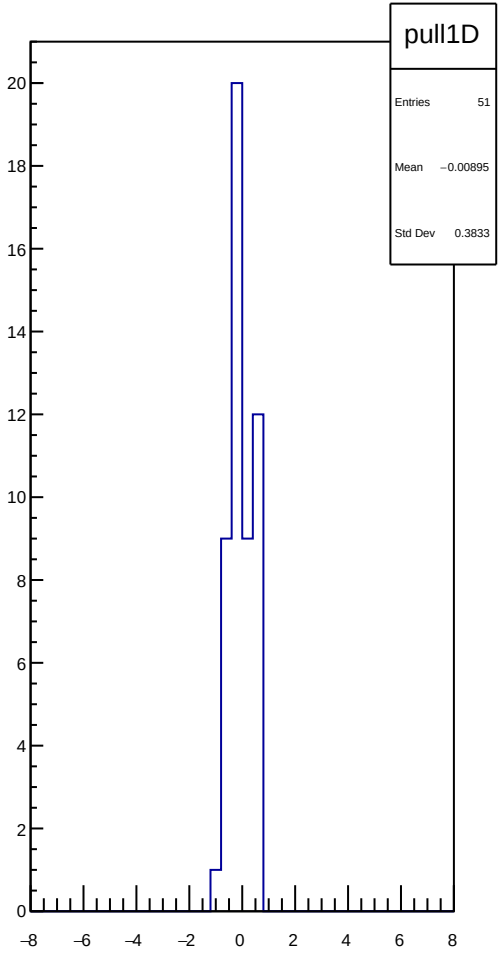

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 0.664 / 50
p0 −114.2 ± 9.672
pull
Entries 51
Mean −177.5
Std Dev 209

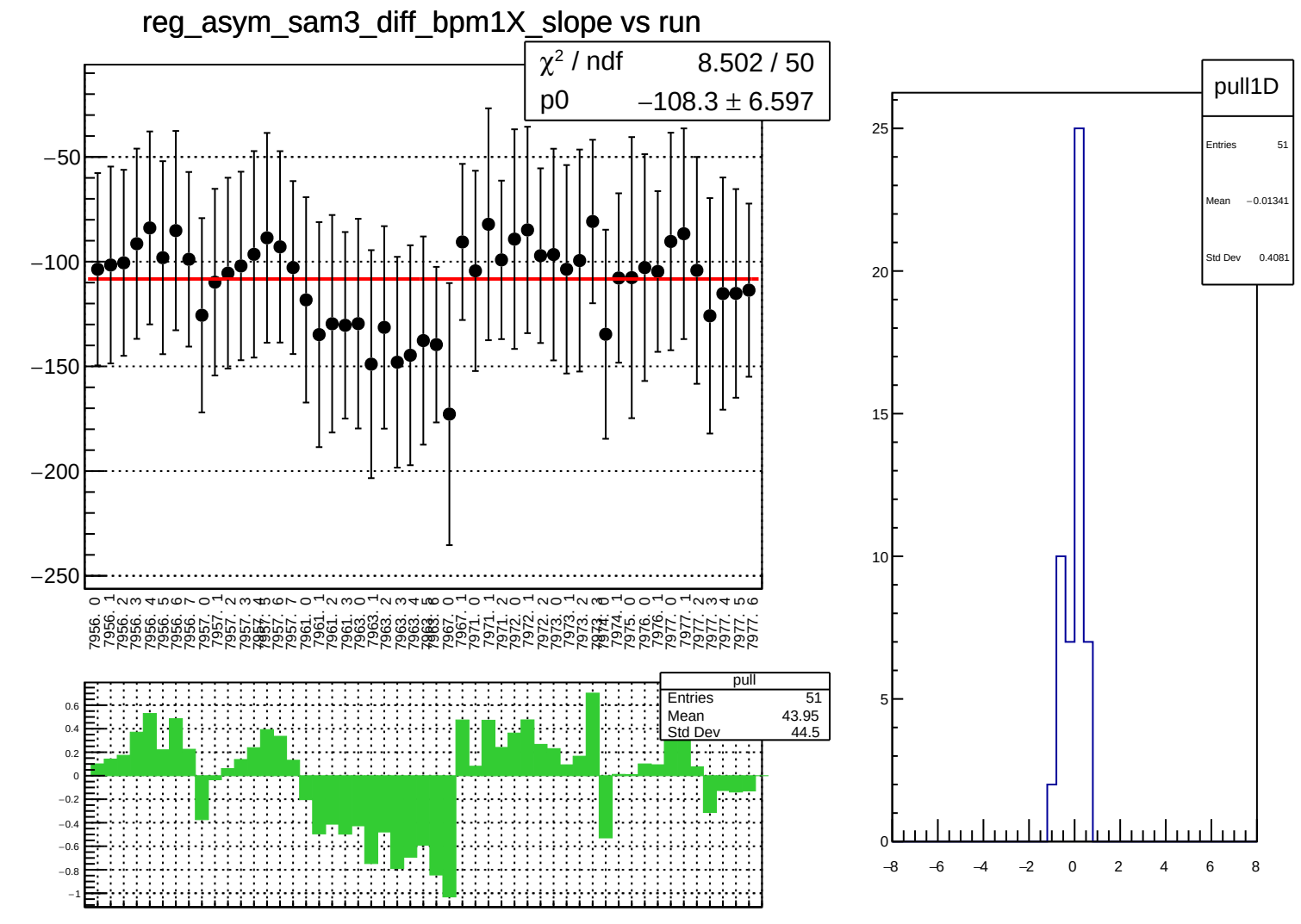

pull1D
Entries 51
Mean 0.0007446
Std Dev 0.1141

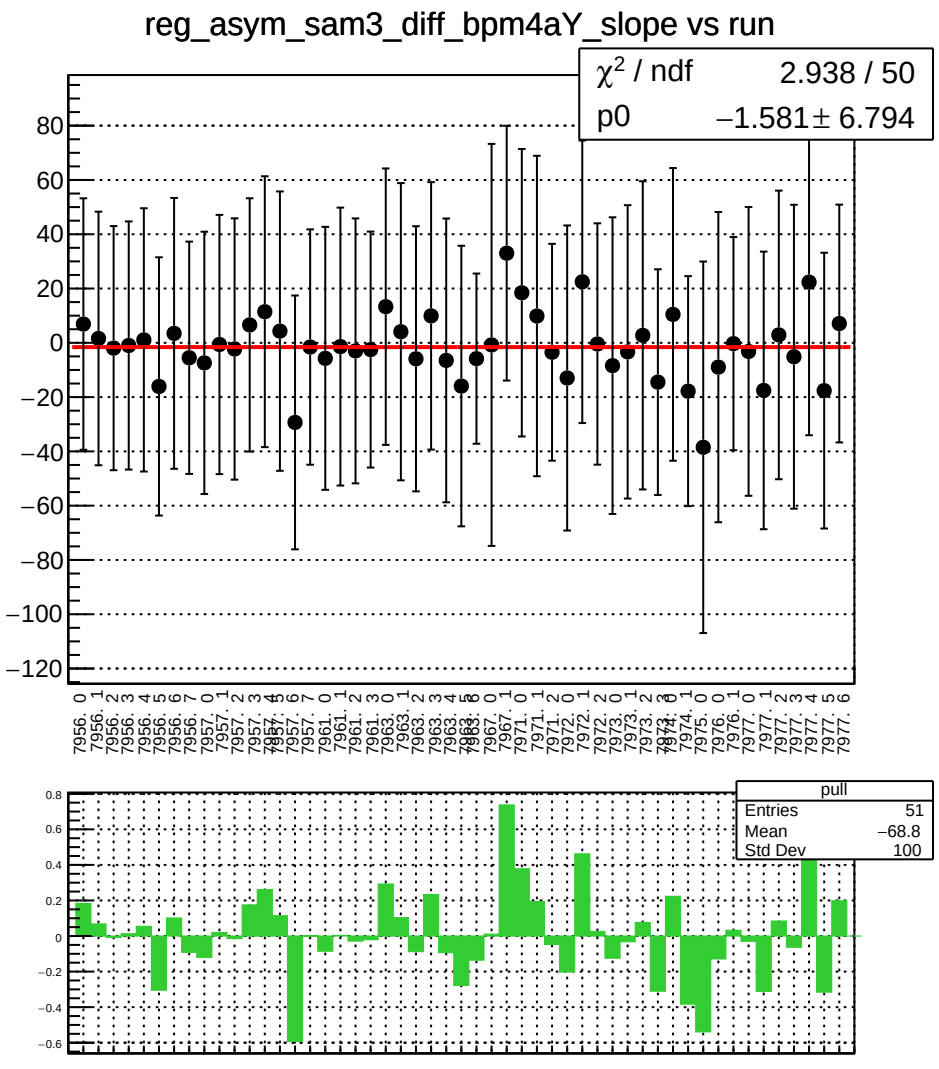

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.7 / 50
p0 8.014 ± 12.8
pull
Entries 51
Mean −47.49
Std Dev 70.91

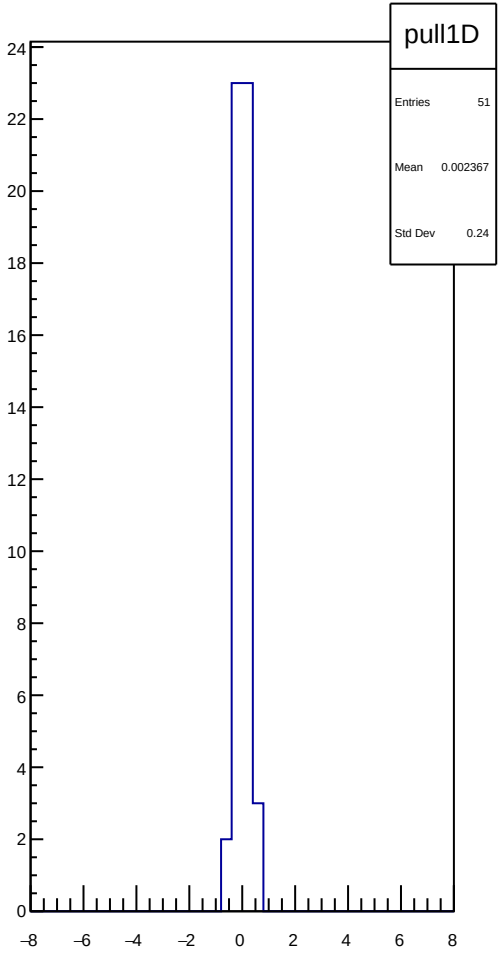

pull1D
Entries 51
Mean 0.01103
Std Dev 0.1822

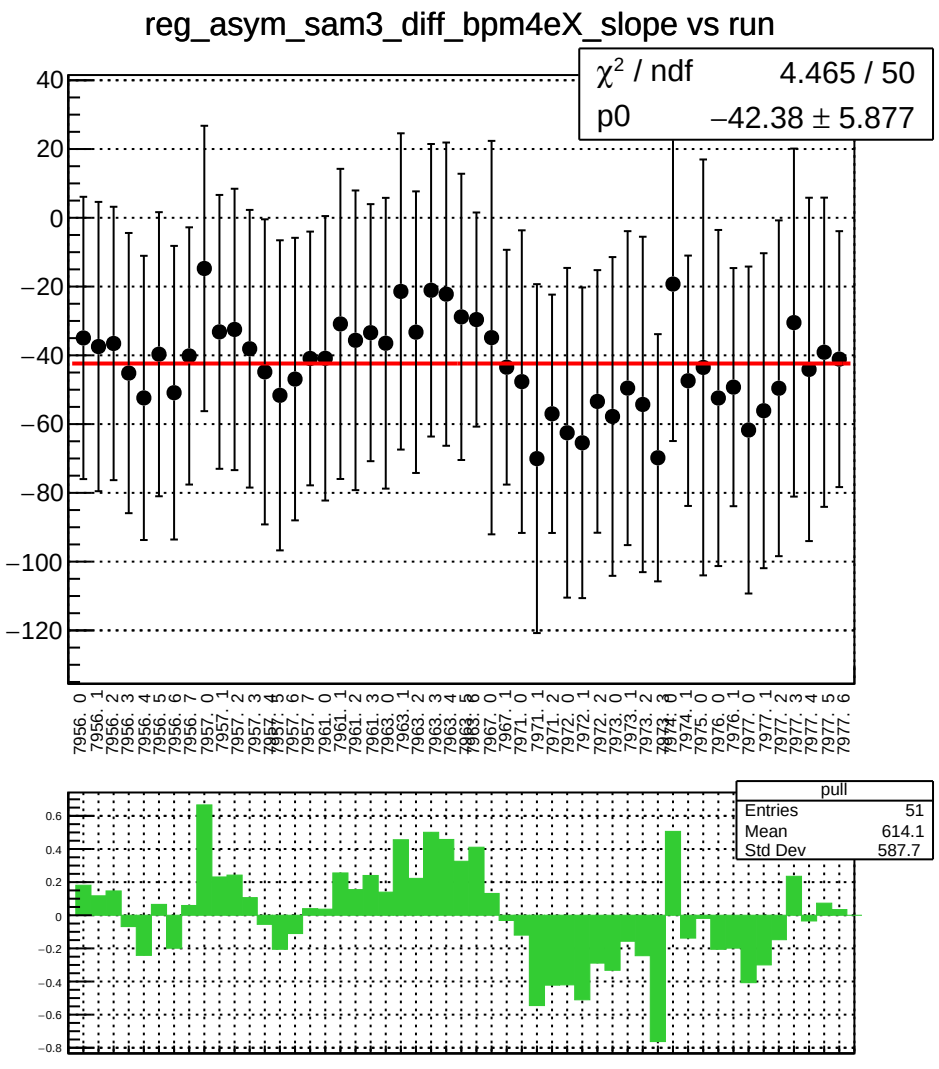

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 7.496 / 50
p0 0.9699 ± 0.3679
pull
Entries 51
Mean 393.5
Std Dev 372

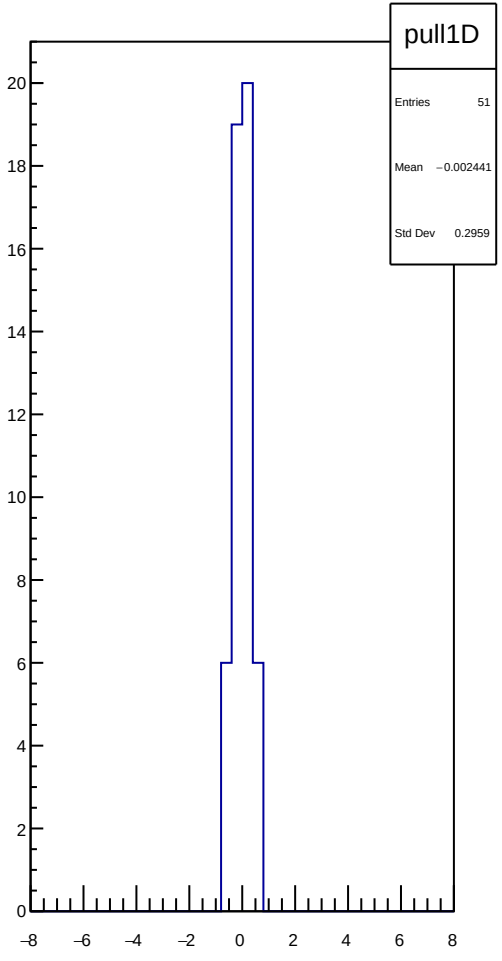

pull1D
Entries 51
Mean −0.00895
Std Dev 0.3833

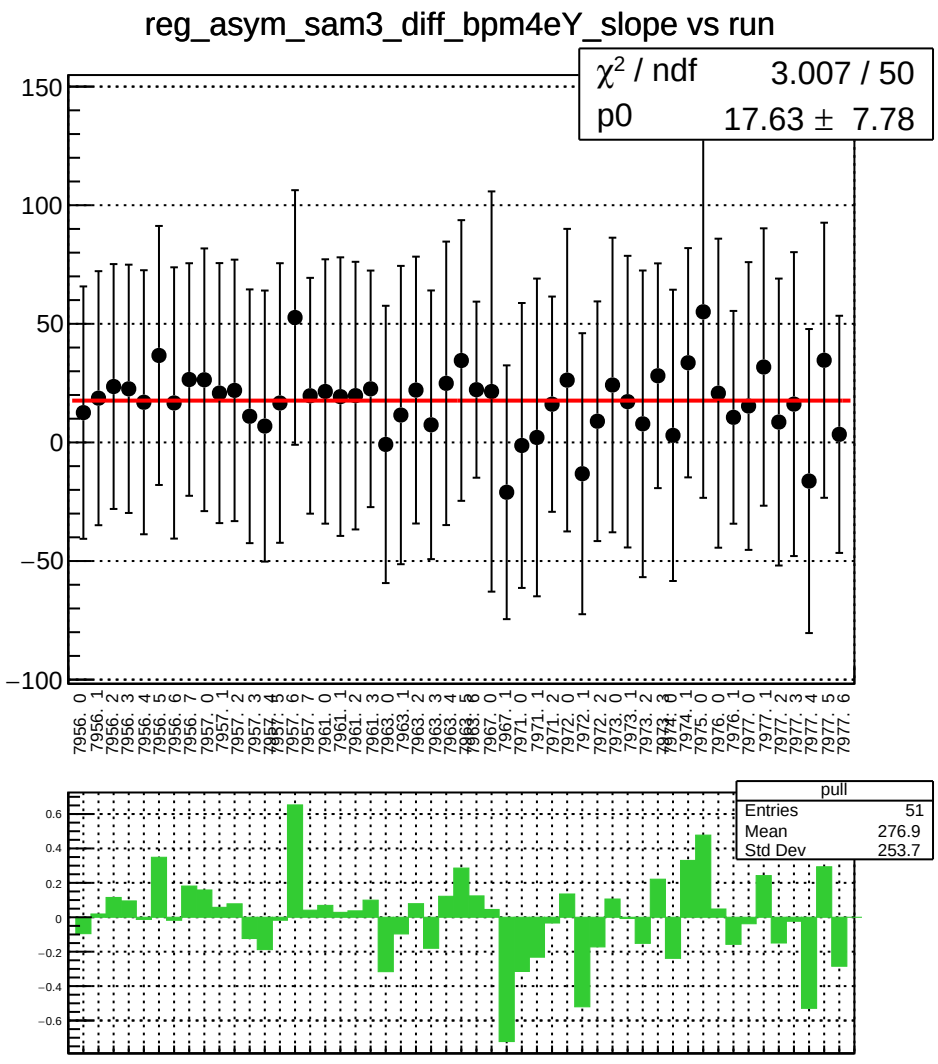

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 8.502 / 50
p0 −108.3 ± 6.597
pull
Entries 51
Mean 43.95
Std Dev 44.5
pull1D
Entries 51
Mean −0.01341
Std Dev 0.4081

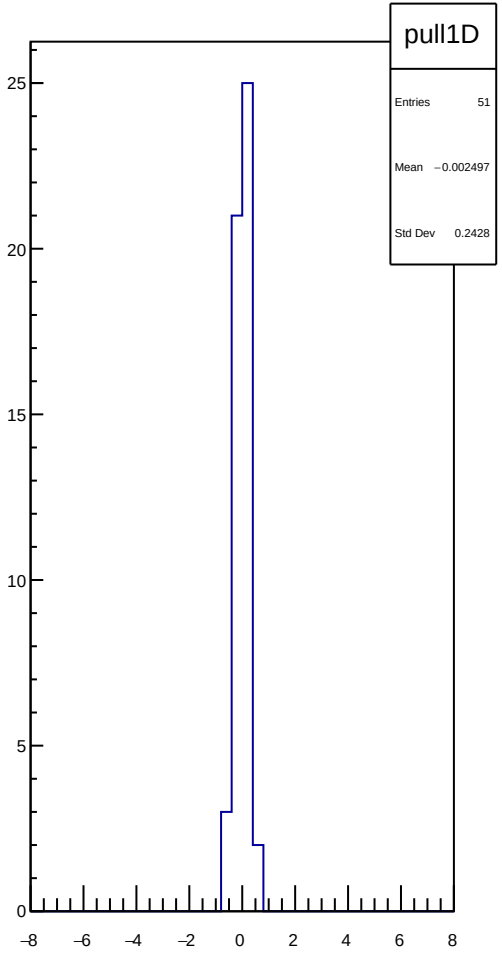

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.938 / 50
p0 −1.581 ± 6.794
pull
Entries 51
Mean −68.8
Std Dev 100

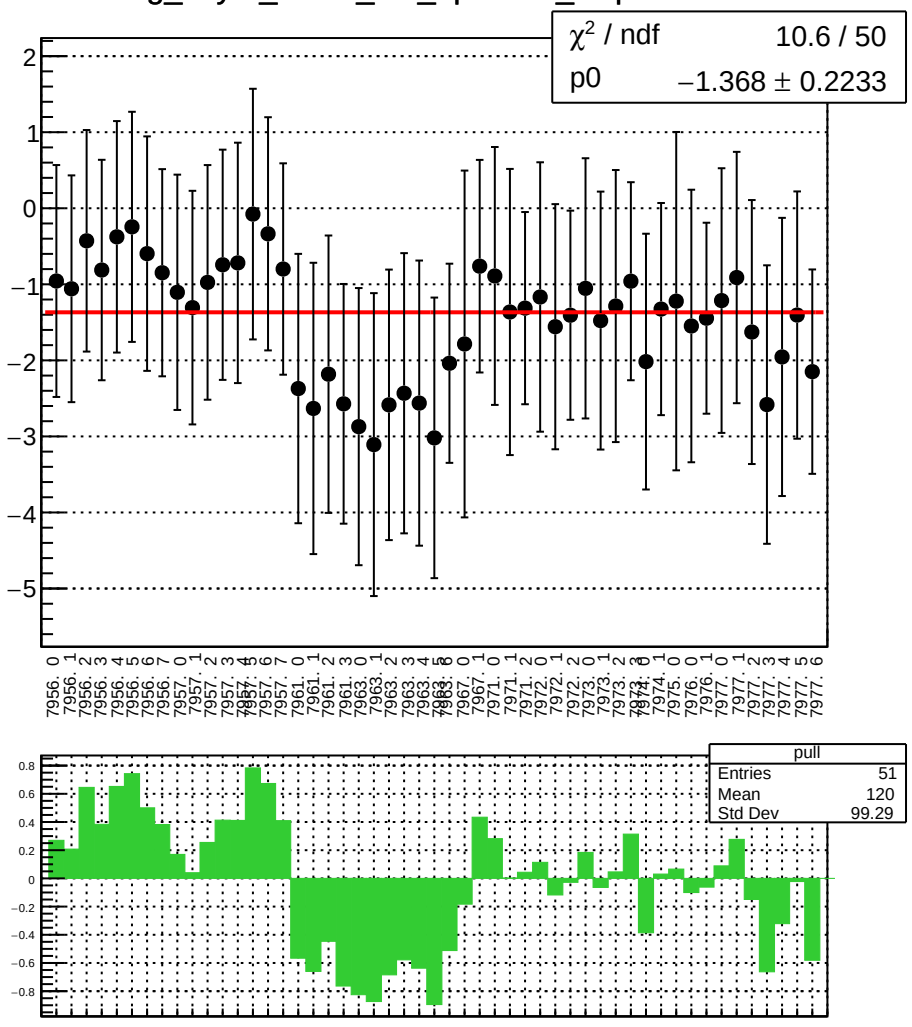

pull1D
Entries 51
Mean 0.002367
Std Dev 0.24

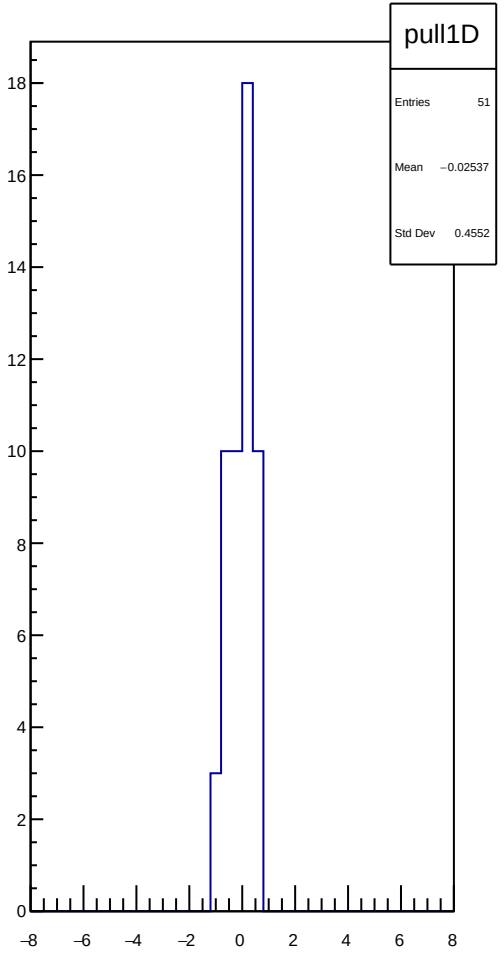

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 4.465 / 50
p0 −42.38 ± 5.877
pull
Entries 51
Mean 614.1
Std Dev 587.7

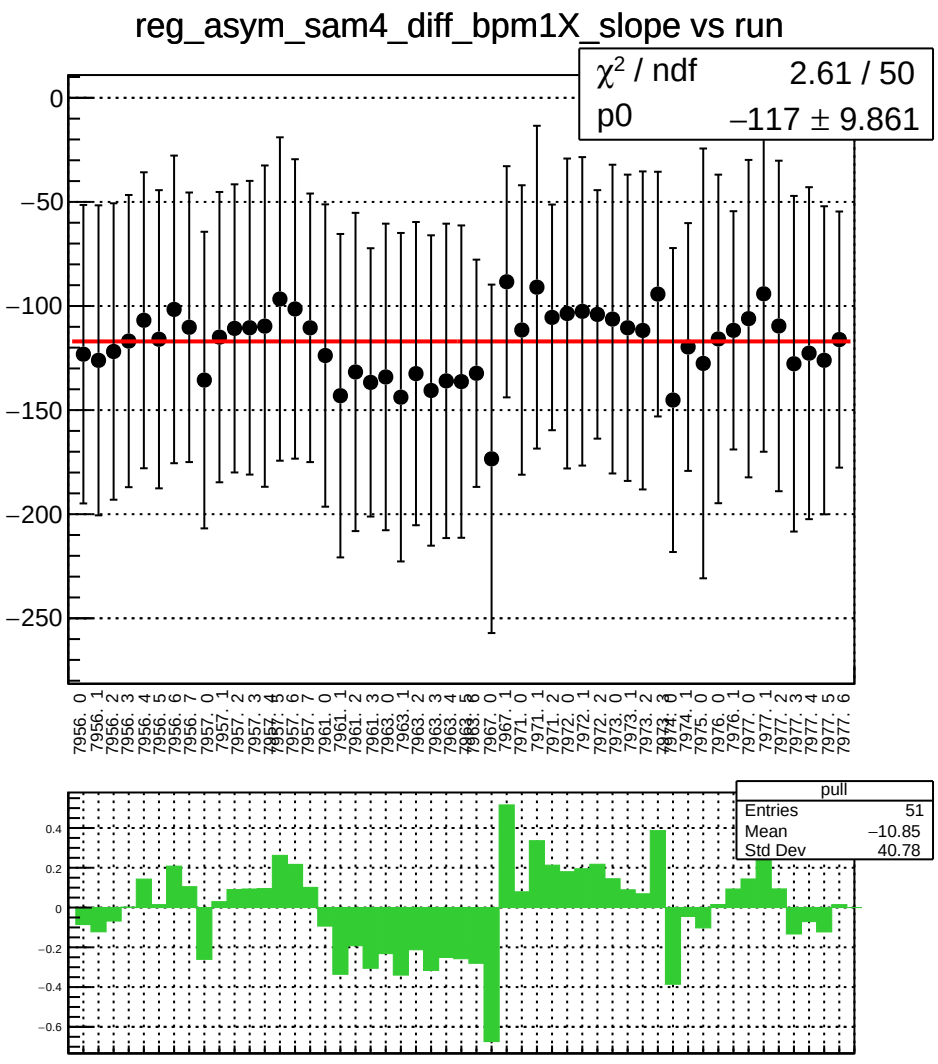

pull1D
Entries 51
Mean −0.002441
Std Dev 0.2959

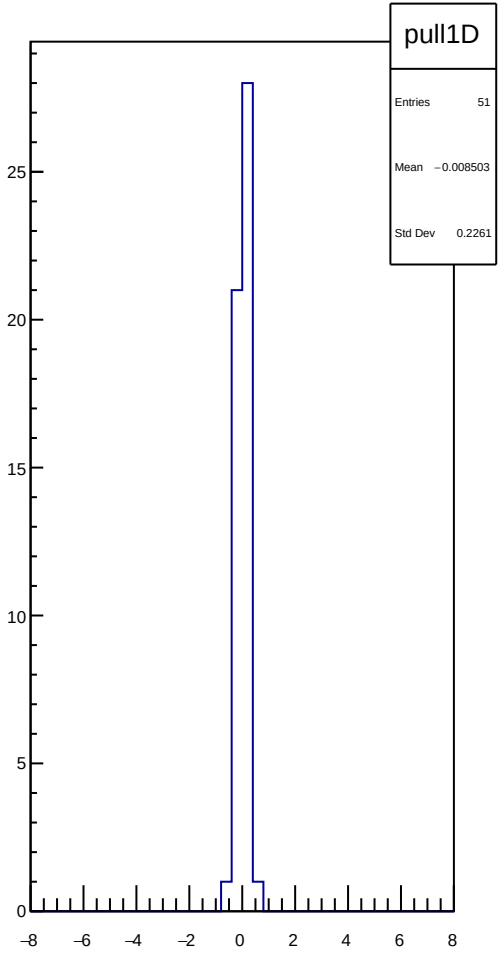

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.007 / 50
p0 17.63 ± 7.78
150
100
50
0
−50
−100
pull
Entries 51
Mean 276.9
Std Dev 253.7
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

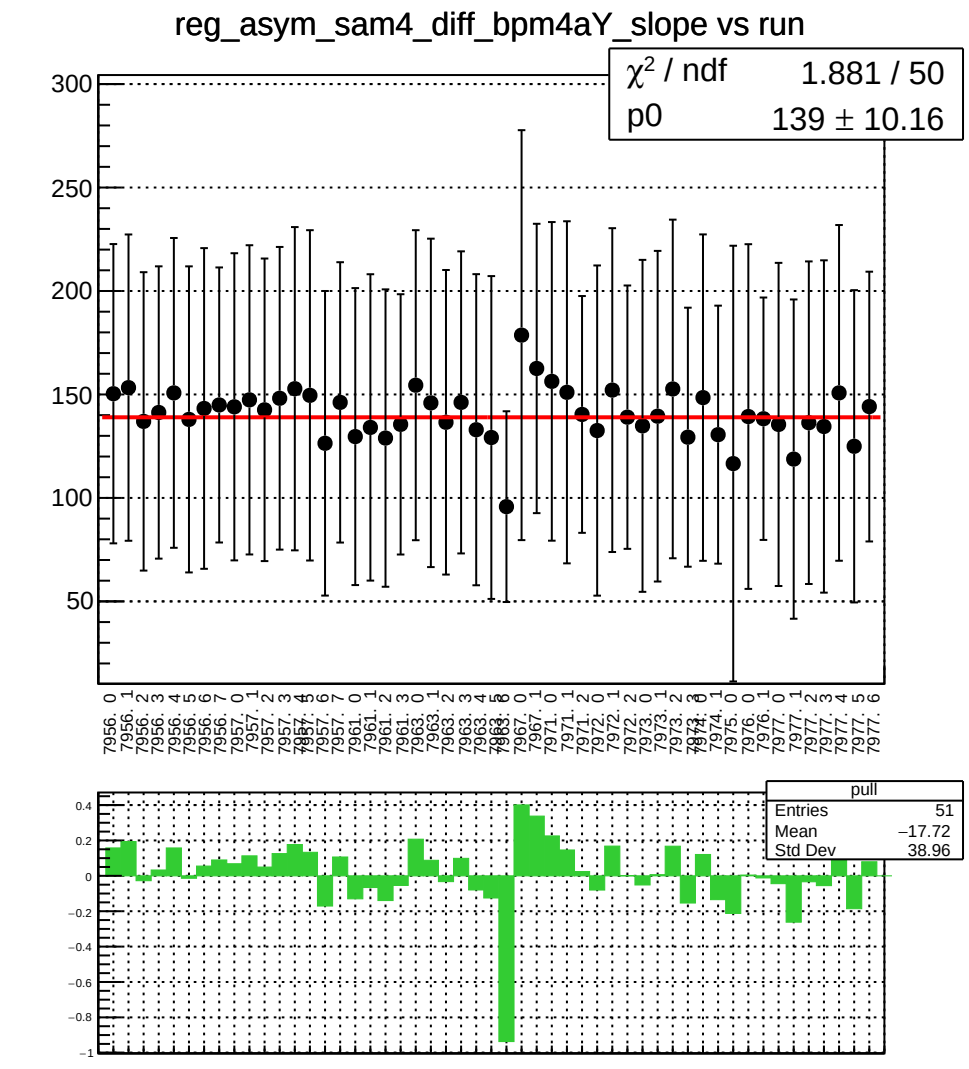

pull1D
Entries 51
Mean −0.002497
Std Dev 0.2428
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

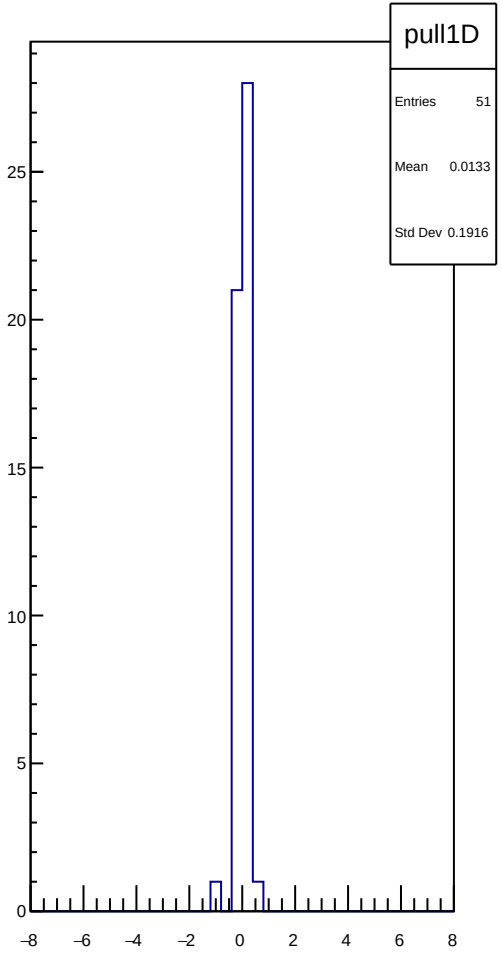

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 10.6 / 50
p0 −1.368 ± 0.2233
pull
Entries 51
Mean 120
Std Dev 99.29

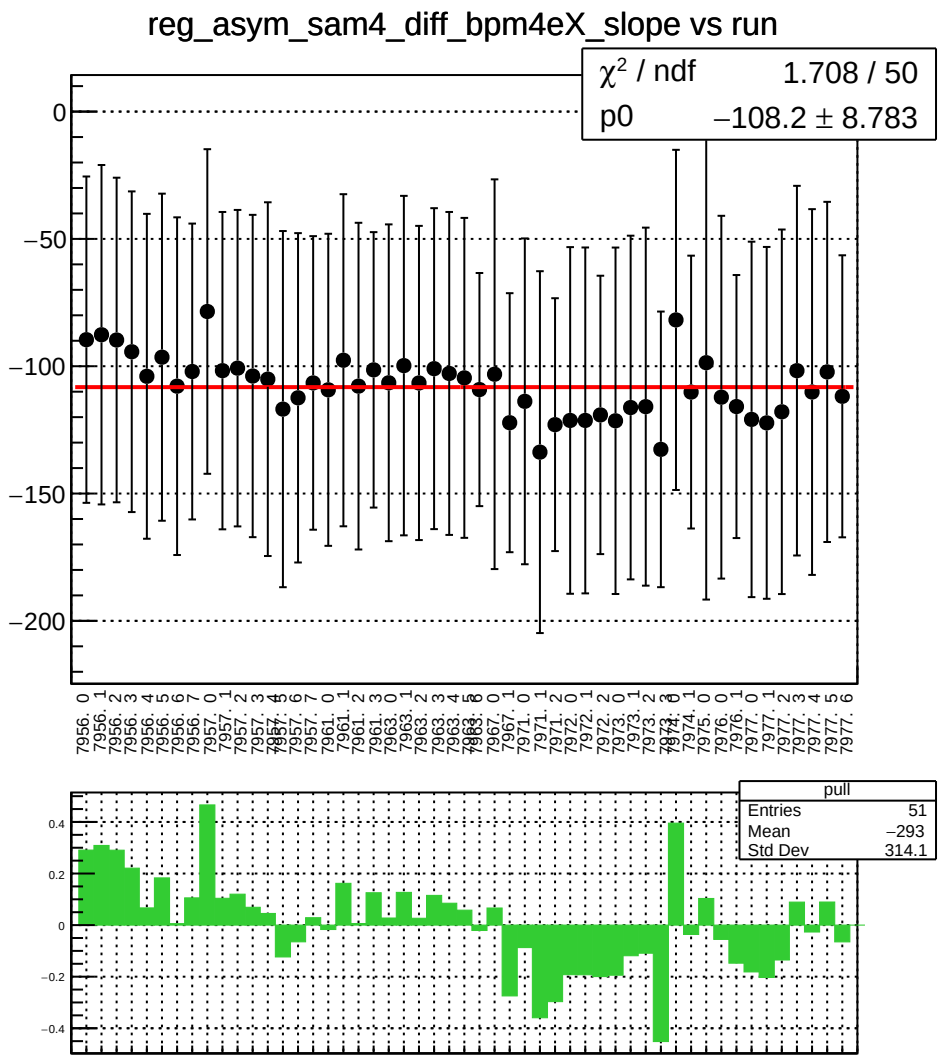

pull1D
Entries 51
Mean −0.02537
Std Dev 0.4552

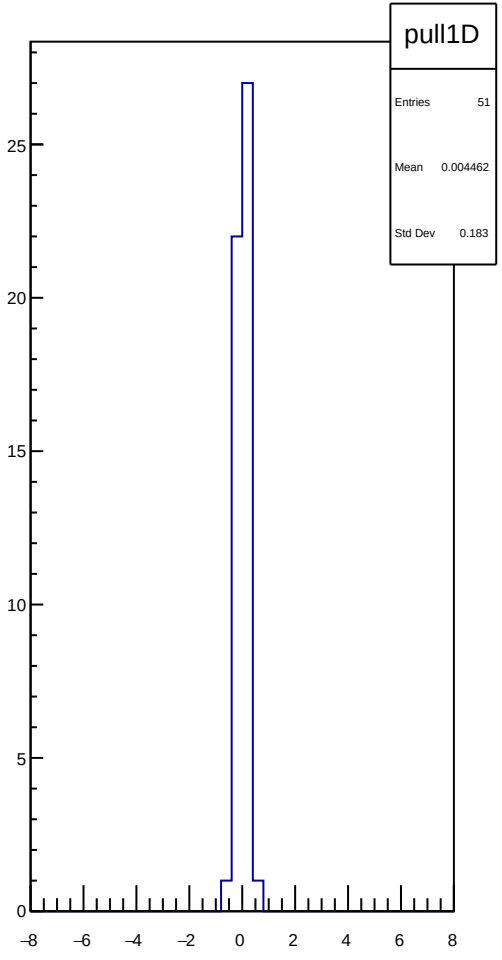

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.61 / 50
p0 −117 ± 9.861
pull
Entries 51
Mean −10.85
Std Dev 40.78

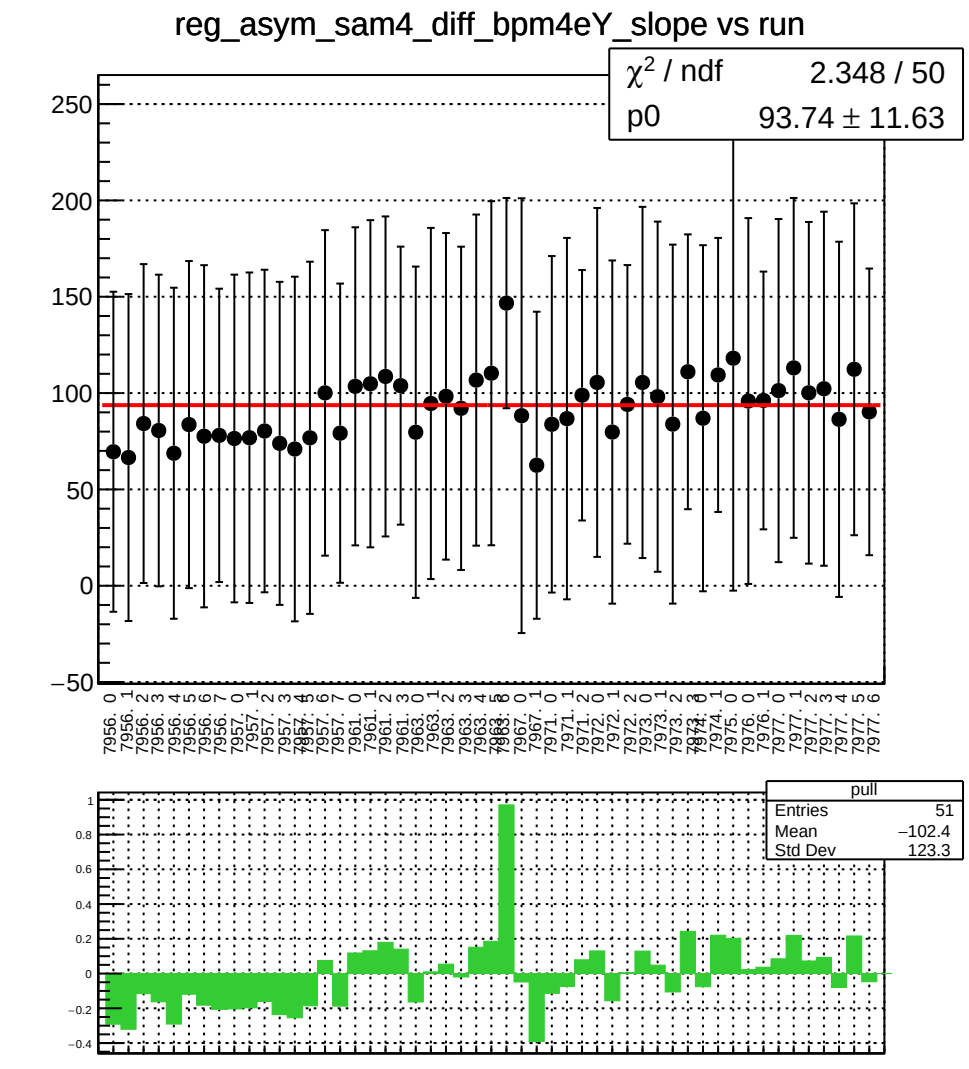

pull1D
Entries 51
Mean −0.008503
Std Dev 0.2261

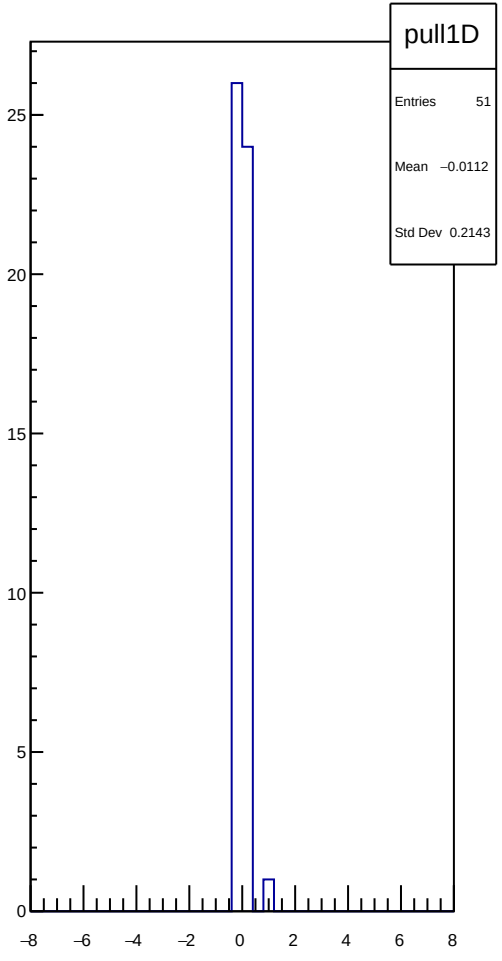

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.881 / 50
p0 139 ± 10.16
pull
Entries 51
Mean −17.72
Std Dev 38.96

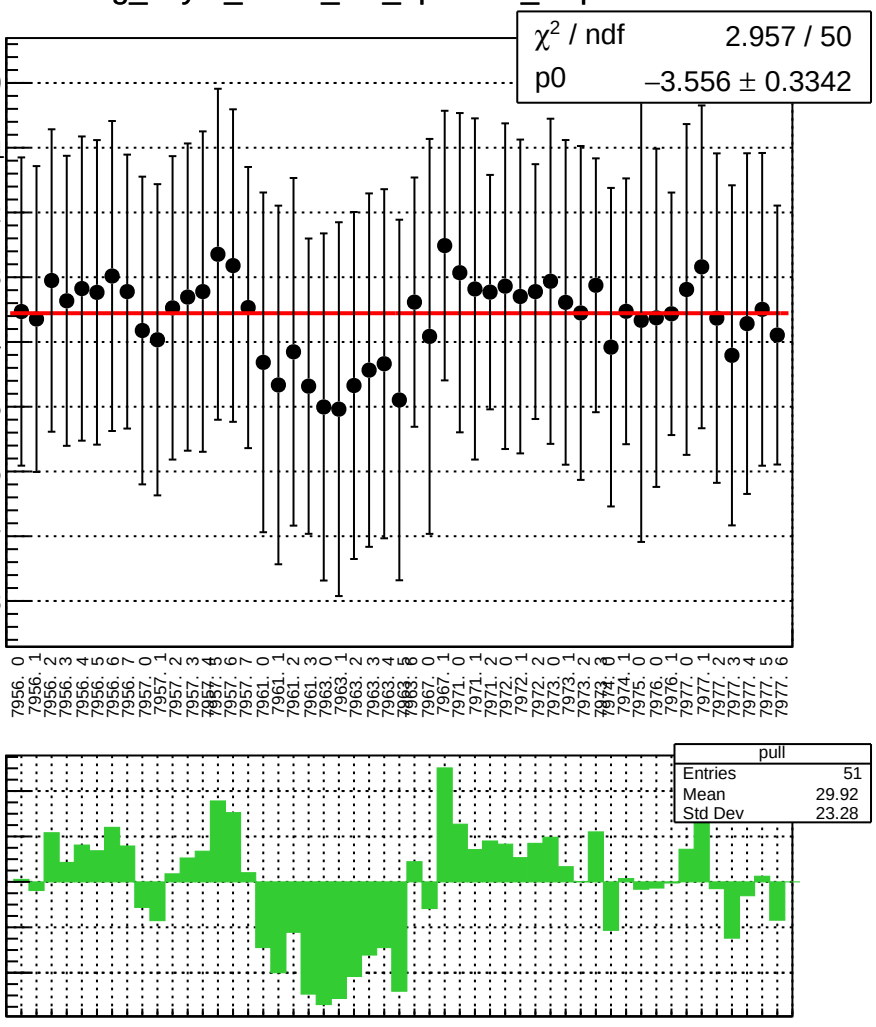

pull1D
Entries 51
Mean 0.0133
Std Dev 0.1916

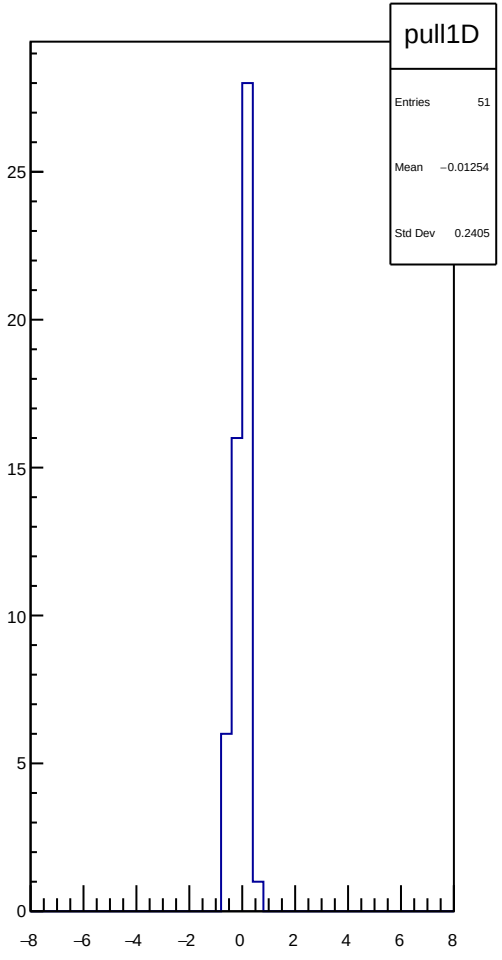

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 1.708 / 50
p0 −108.2 ± 8.783
pull
Entries 51
Mean −293
Std Dev 314.1

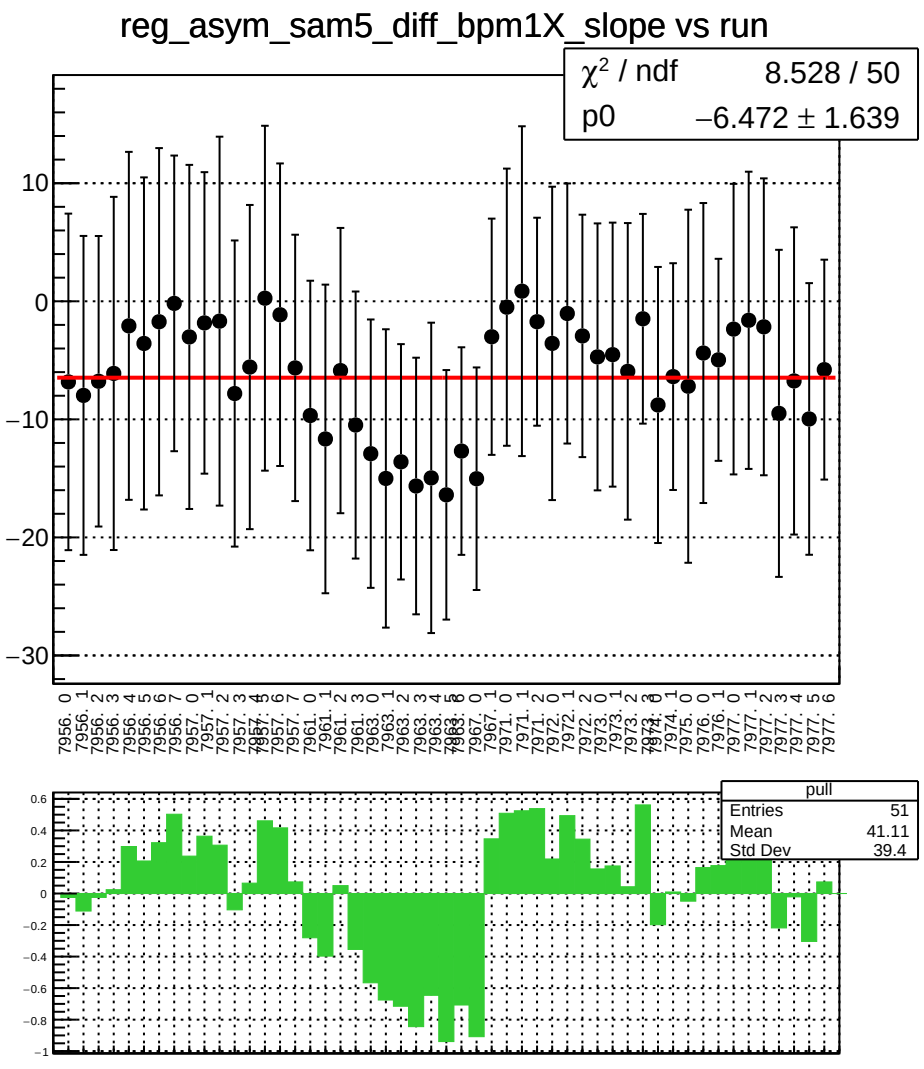

pull1D
Entries 51
Mean 0.004462
Std Dev 0.183

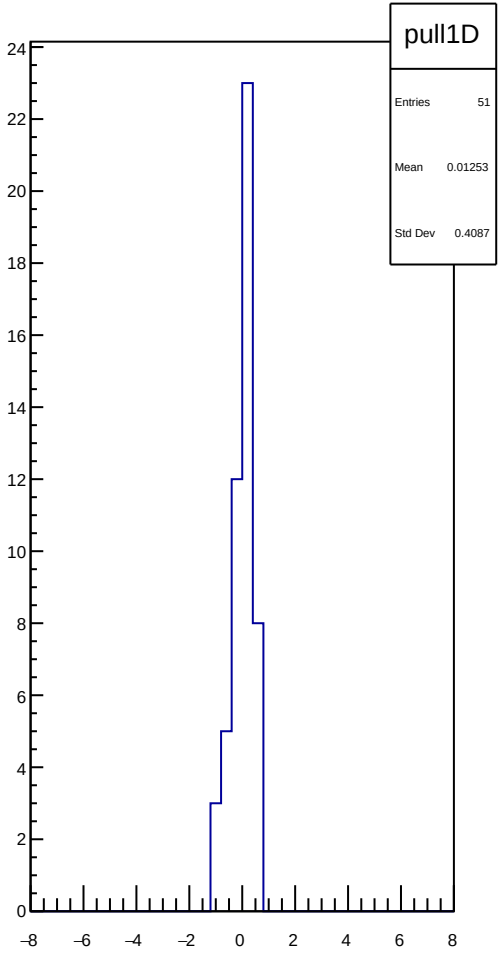

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.348 / 50
p0 93.74 ± 11.63
pull
Entries 51
Mean −102.4
Std Dev 123.3

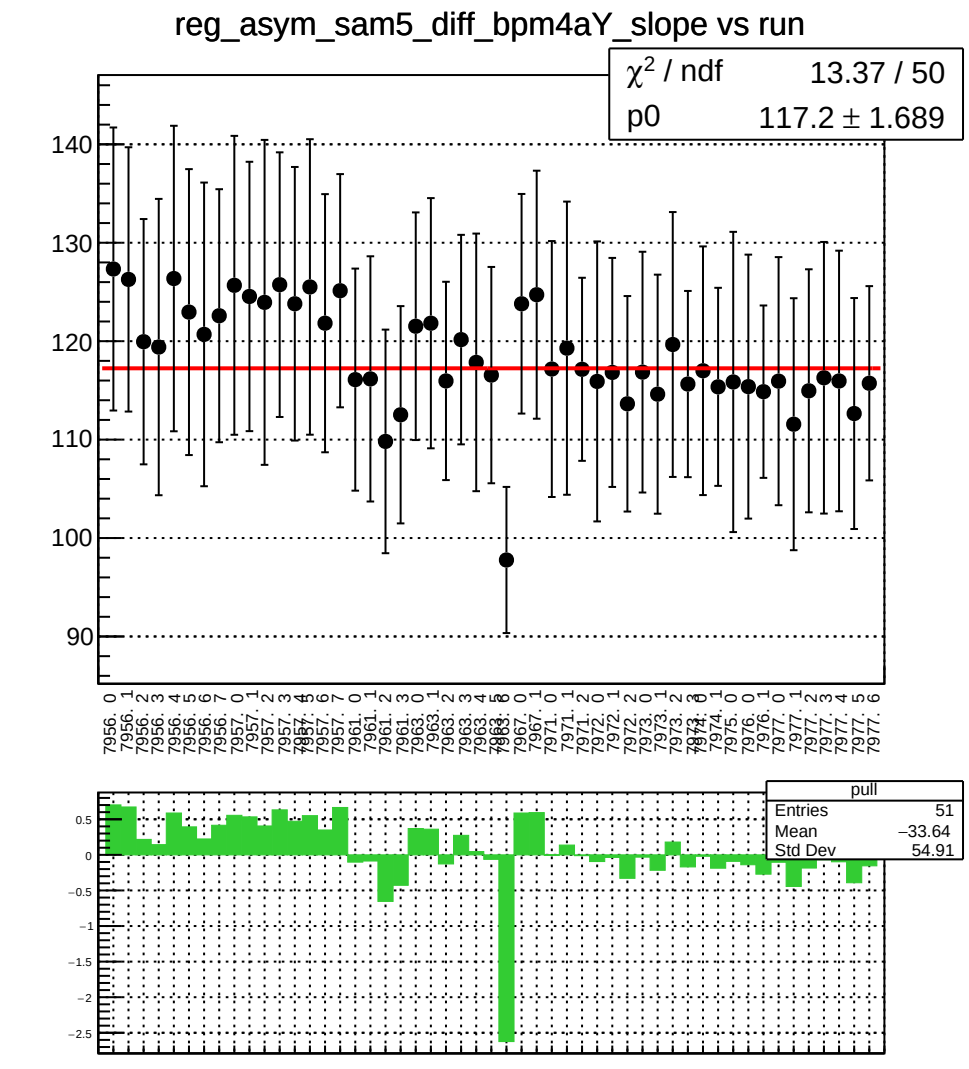

pull1D
Entries 51
Mean −0.0112
Std Dev 0.2143

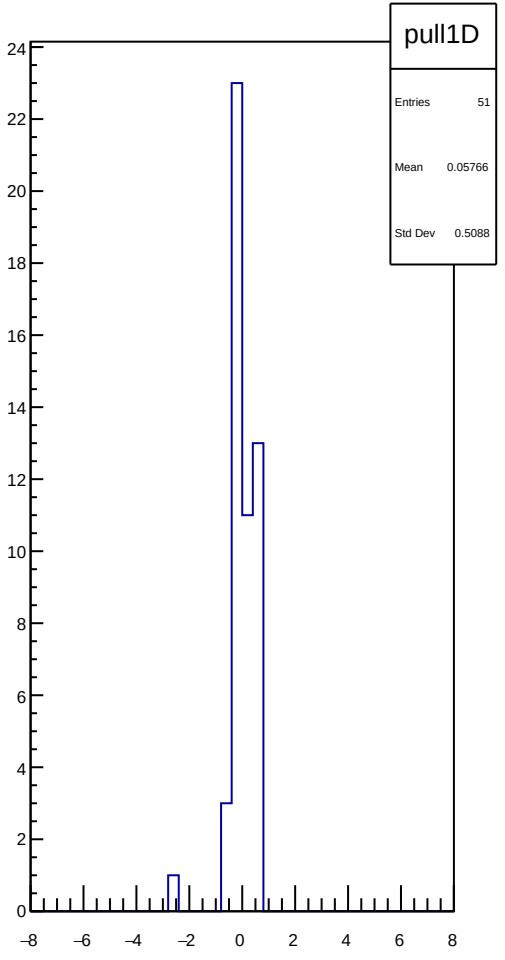

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 2.957 / 50
p0 −3.556 ± 0.3342
pull
Entries 51
Mean 29.92
Std Dev 23.28

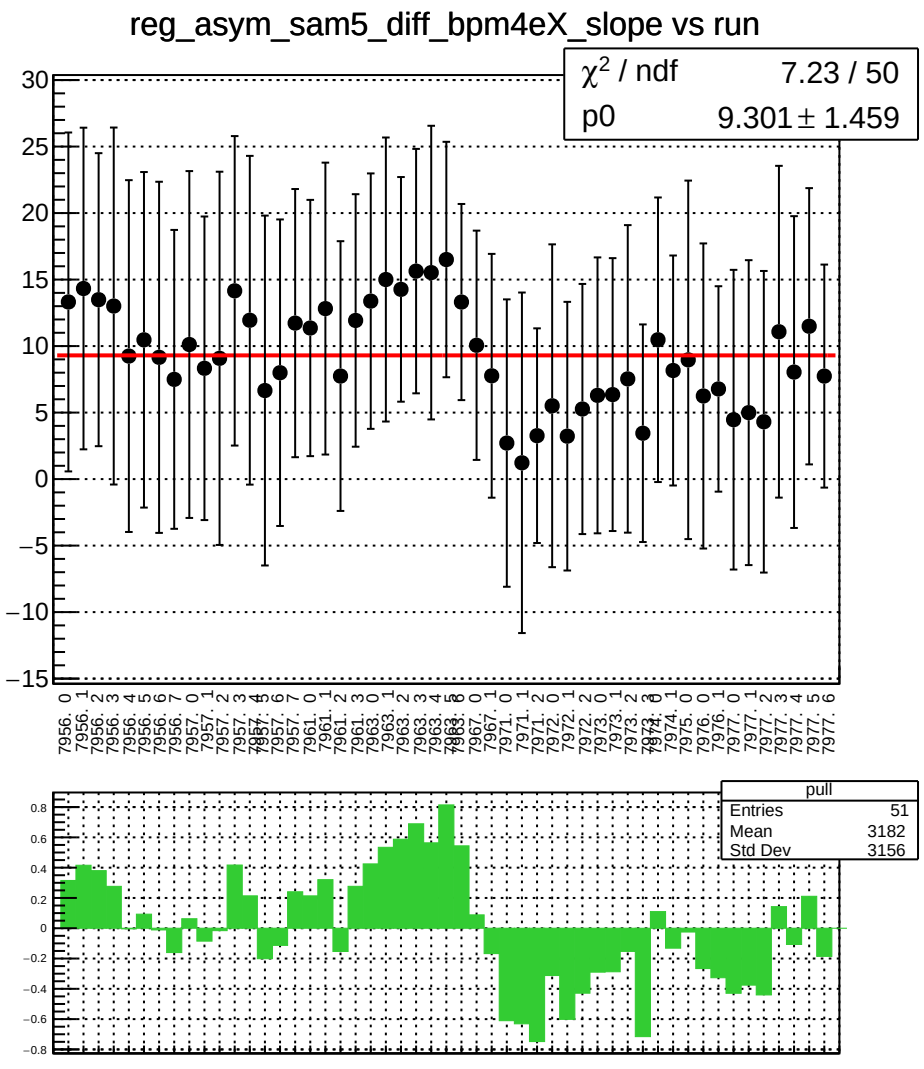

pull1D
Entries 51
Mean −0.01254
Std Dev 0.2405

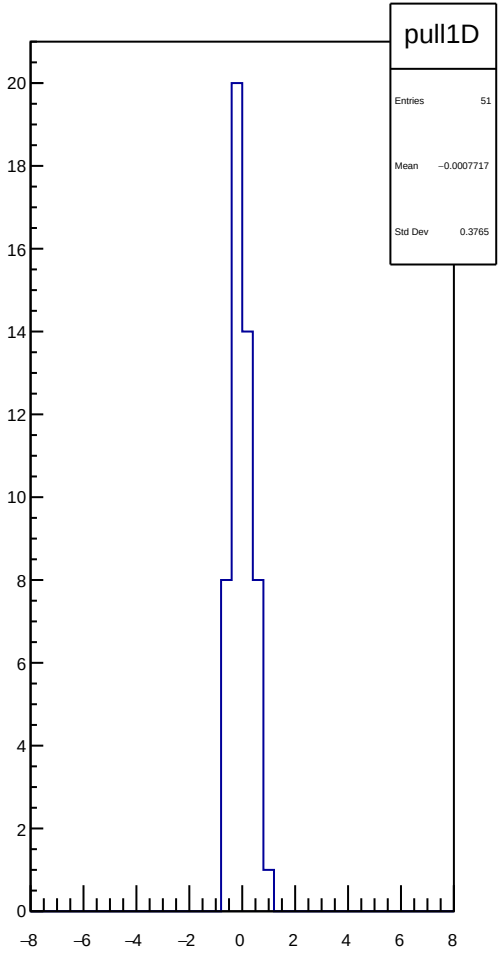

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 8.528 / 50
p0 −6.472 ± 1.639
pull
Entries 51
Mean 41.11
Std Dev 39.4

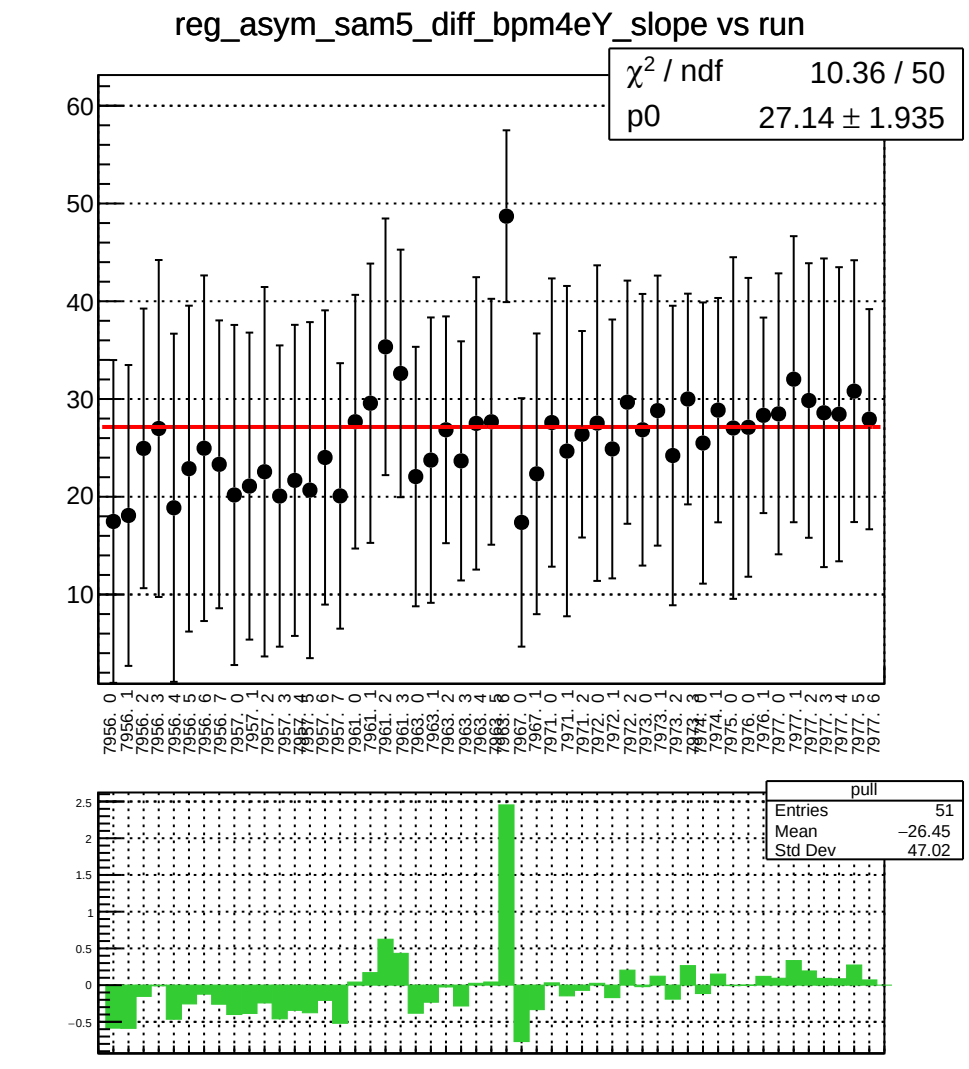

pull1D
Entries 51
Mean 0.01253
Std Dev 0.4087

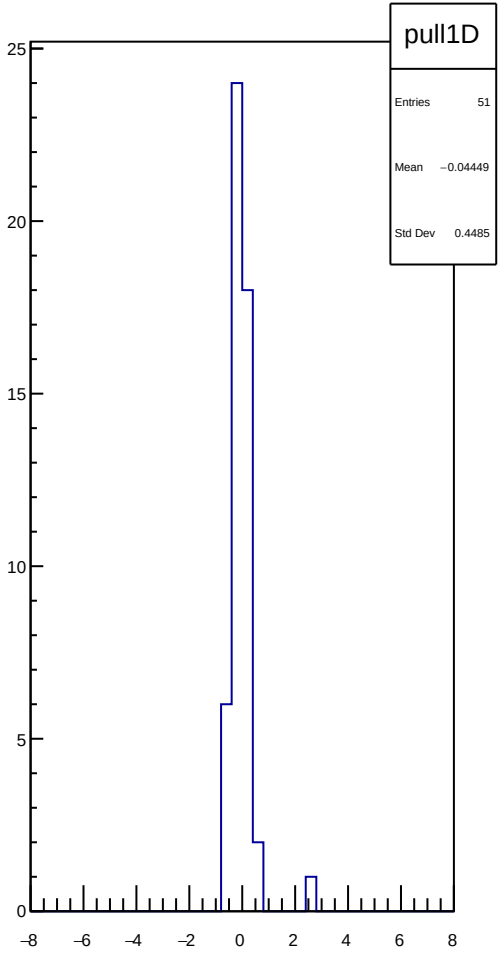

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 13.37 / 50
p0 117.2 ± 1.689
pull
Entries 51
Mean −33.64
Std Dev 54.91

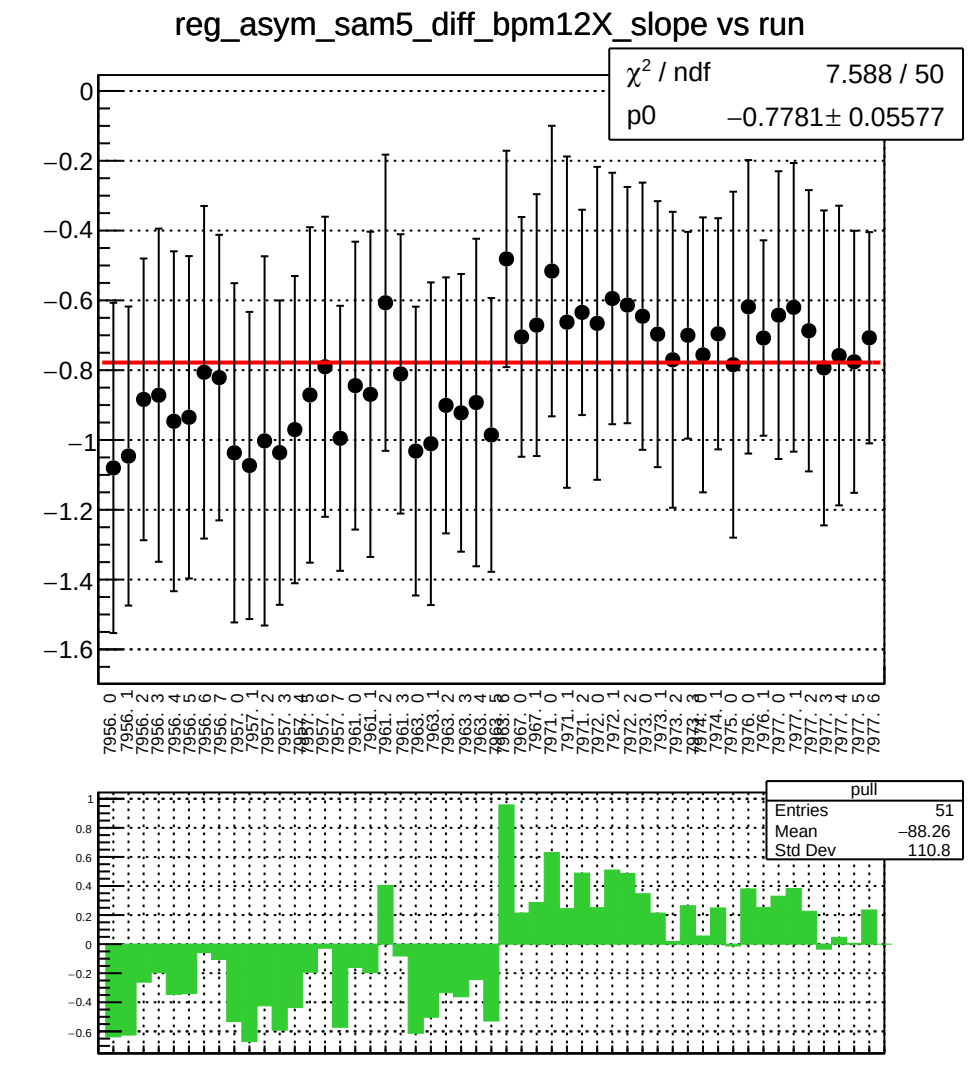

pull1D
Entries 51
Mean 0.05766
Std Dev 0.5088

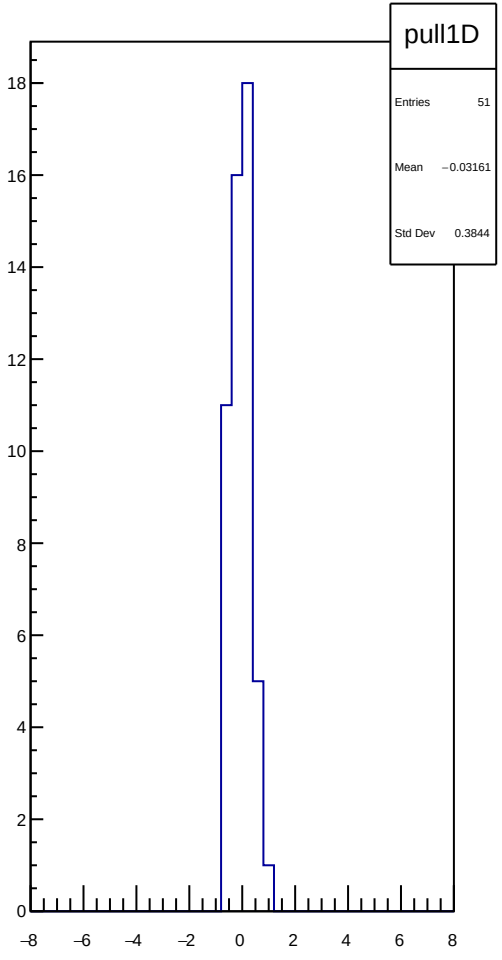

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.23 / 50
p0 9.301 ± 1.459
pull
Entries 51
Mean 3182
Std Dev 3156

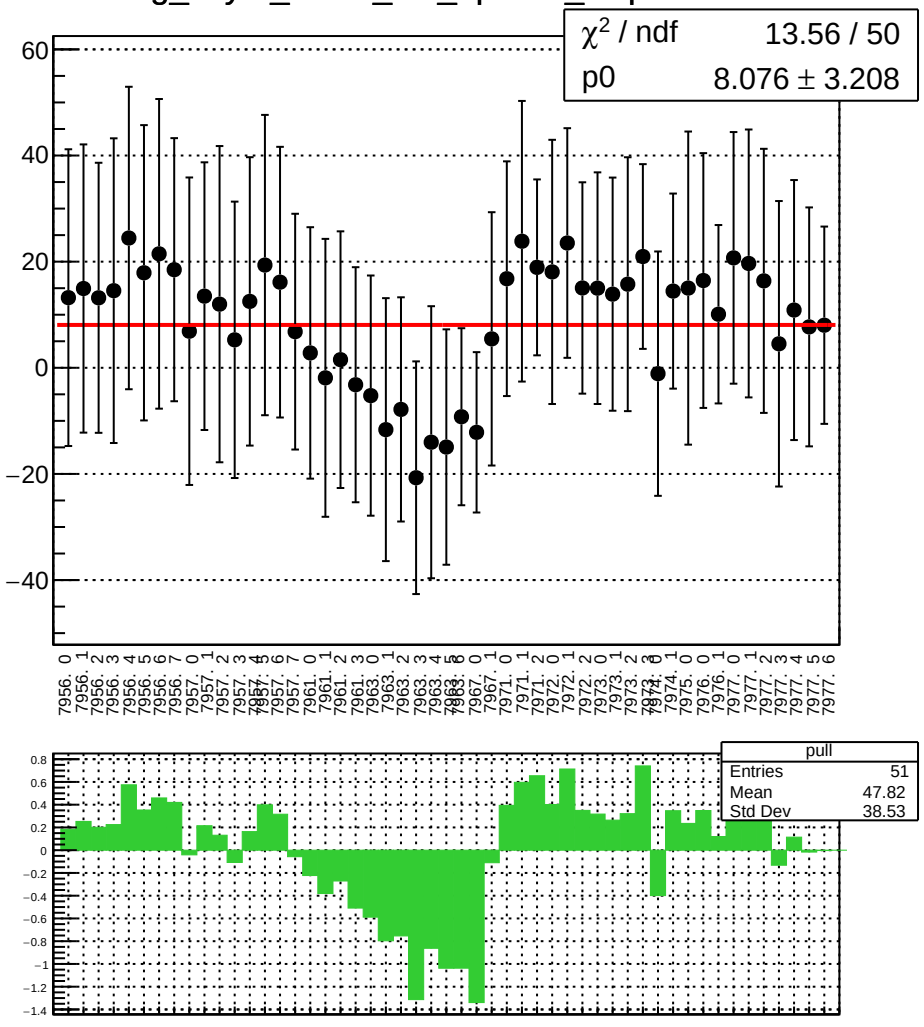

pull1D
Entries 51
Mean −0.0007717
Std Dev 0.3765

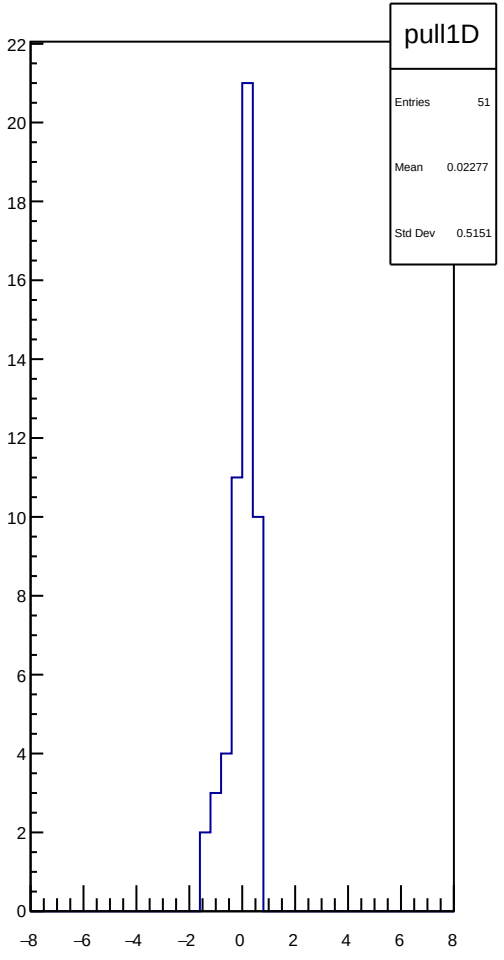

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 10.36 / 50
p0 27.14 ± 1.935
pull
Entries 51
Mean −26.45
Std Dev 47.02

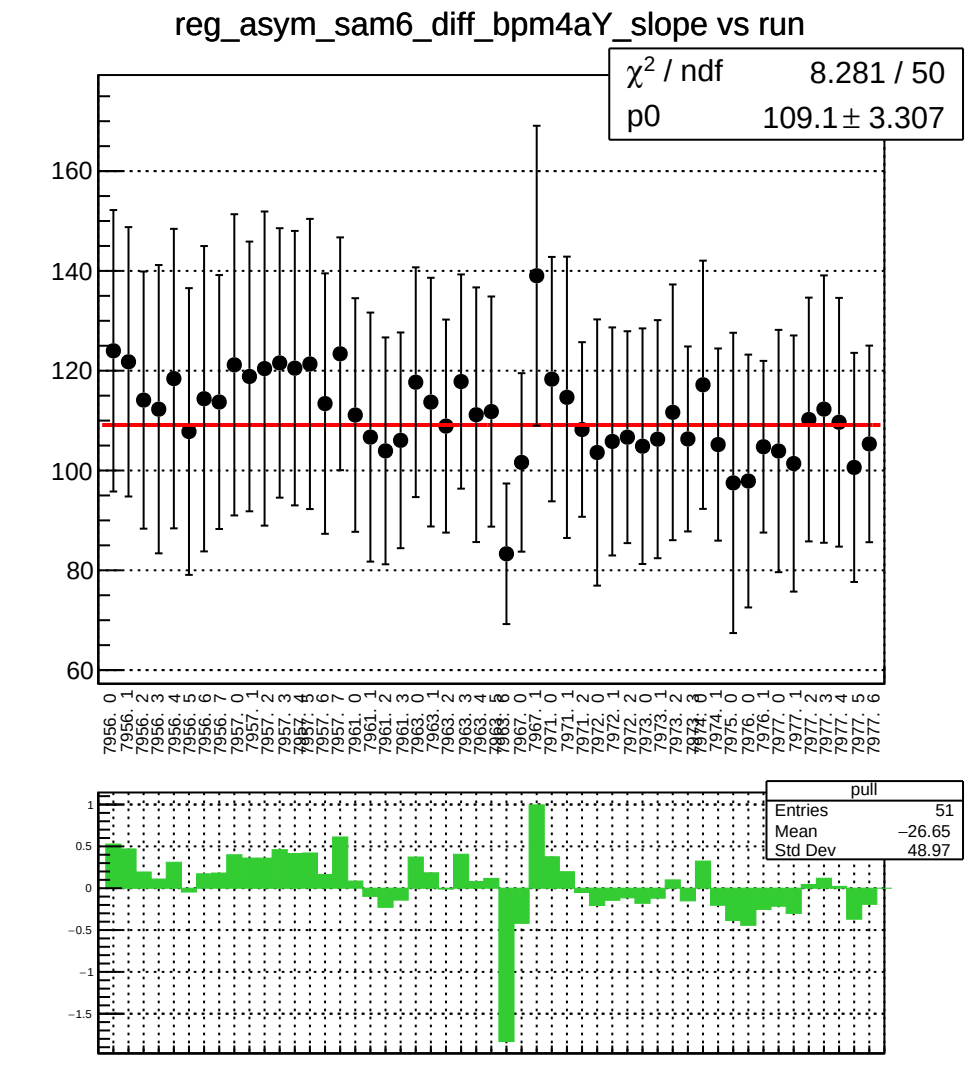

pull1D
Entries 51
Mean −0.04449
Std Dev 0.4485

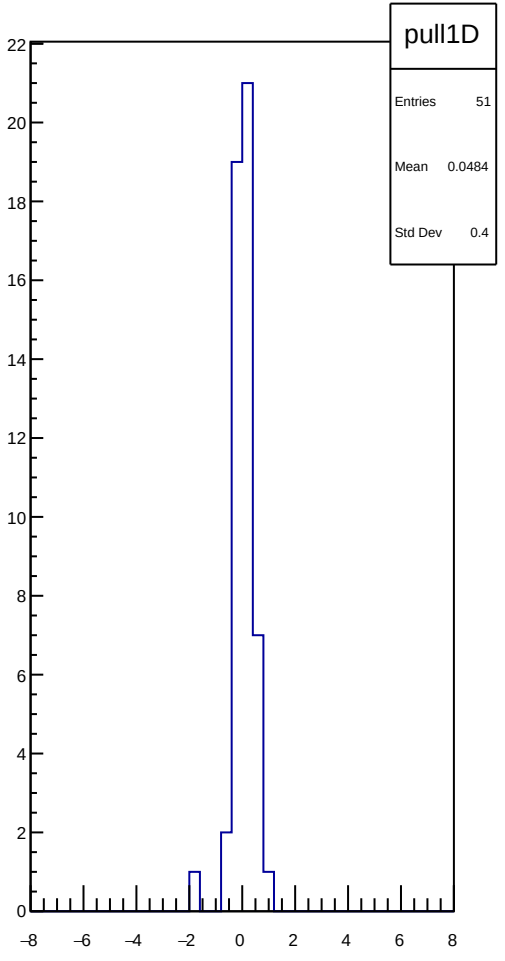

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 7.588 / 50
p0 −0.7781± 0.05577
pull
Entries 51
Mean −88.26
Std Dev 110.8

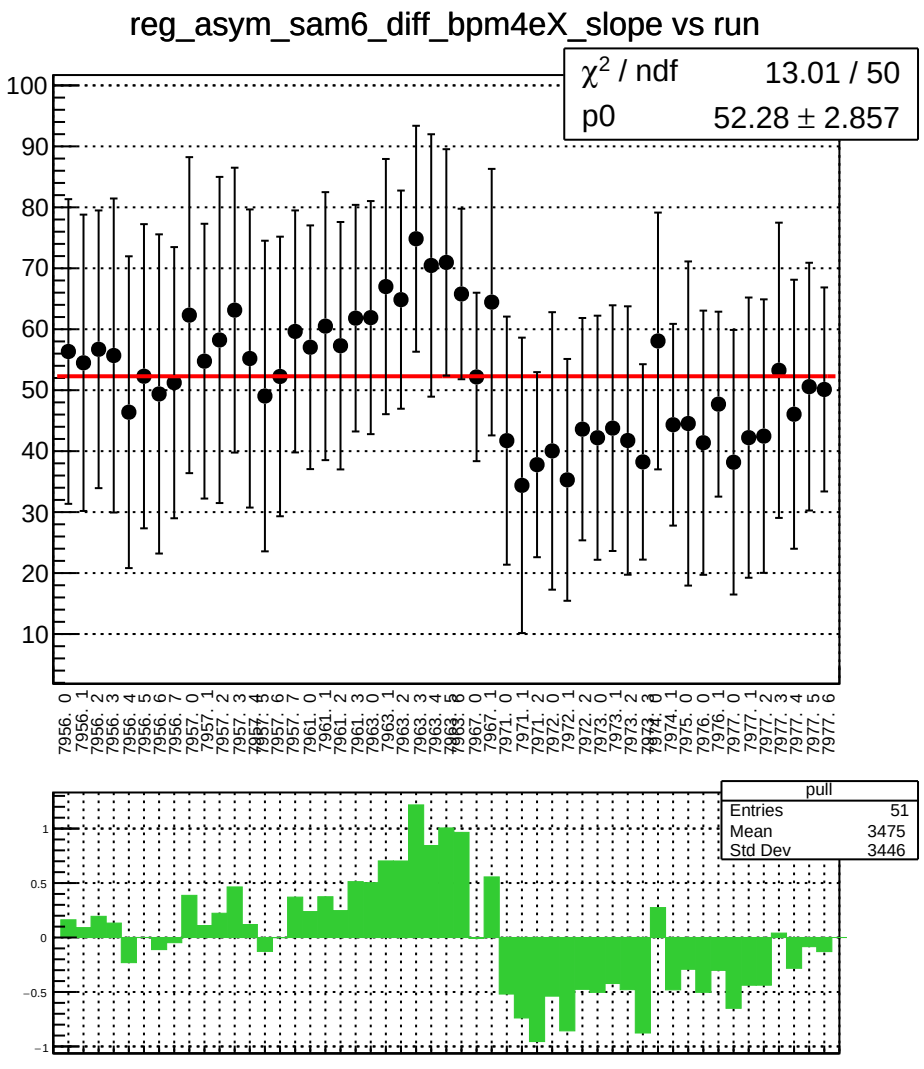

pull1D
Entries 51
Mean −0.03161
Std Dev 0.3844

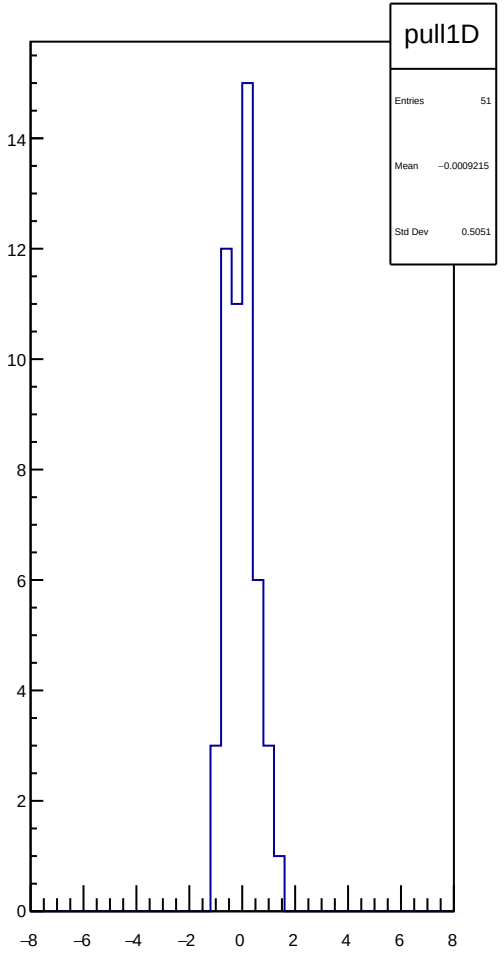

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 13.56 / 50
p0 8.076 ± 3.208
pull
Entries 51
Mean 47.82
Std Dev 38.53

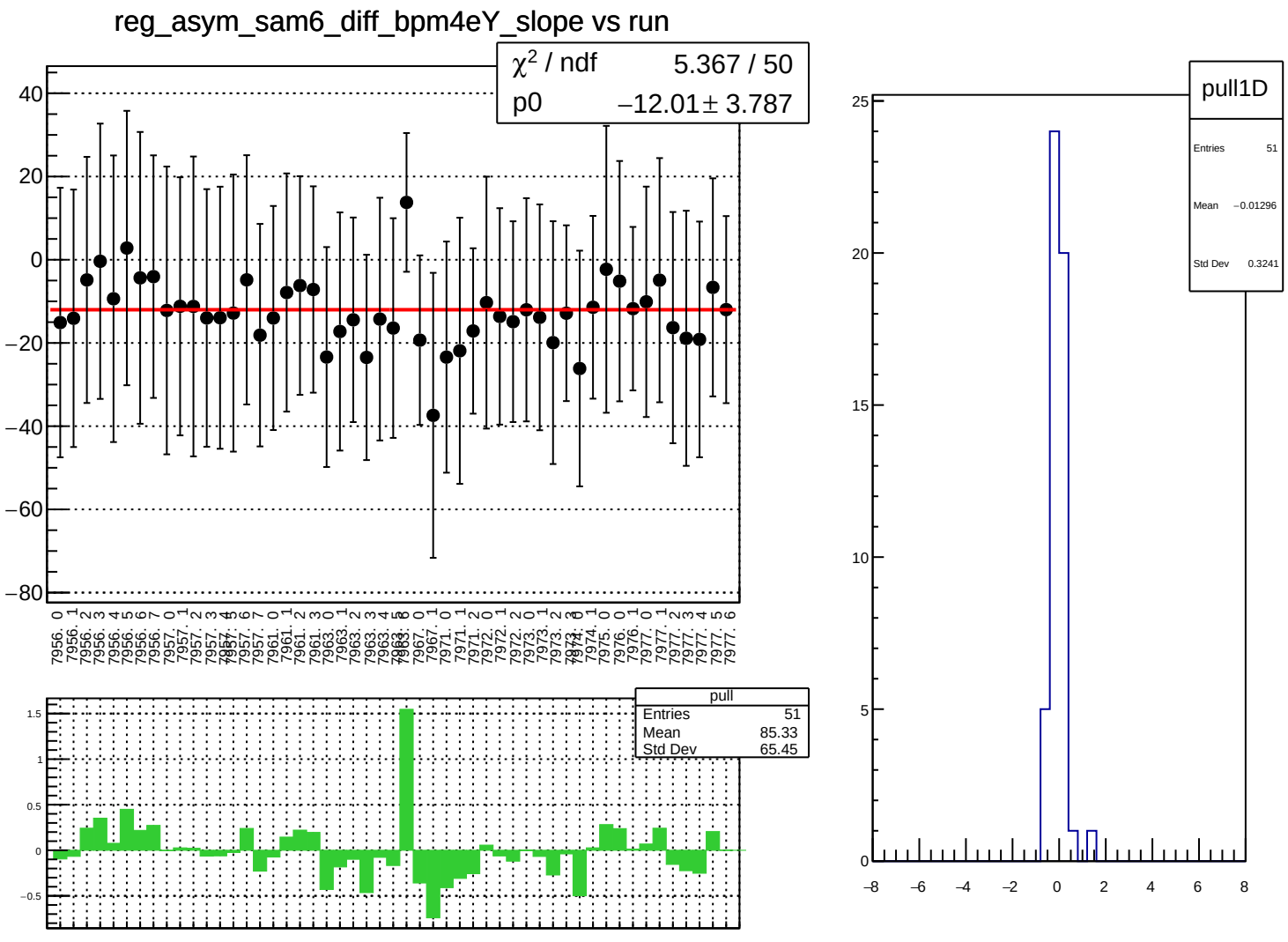

pull1D
Entries 51
Mean 0.02277
Std Dev 0.5151

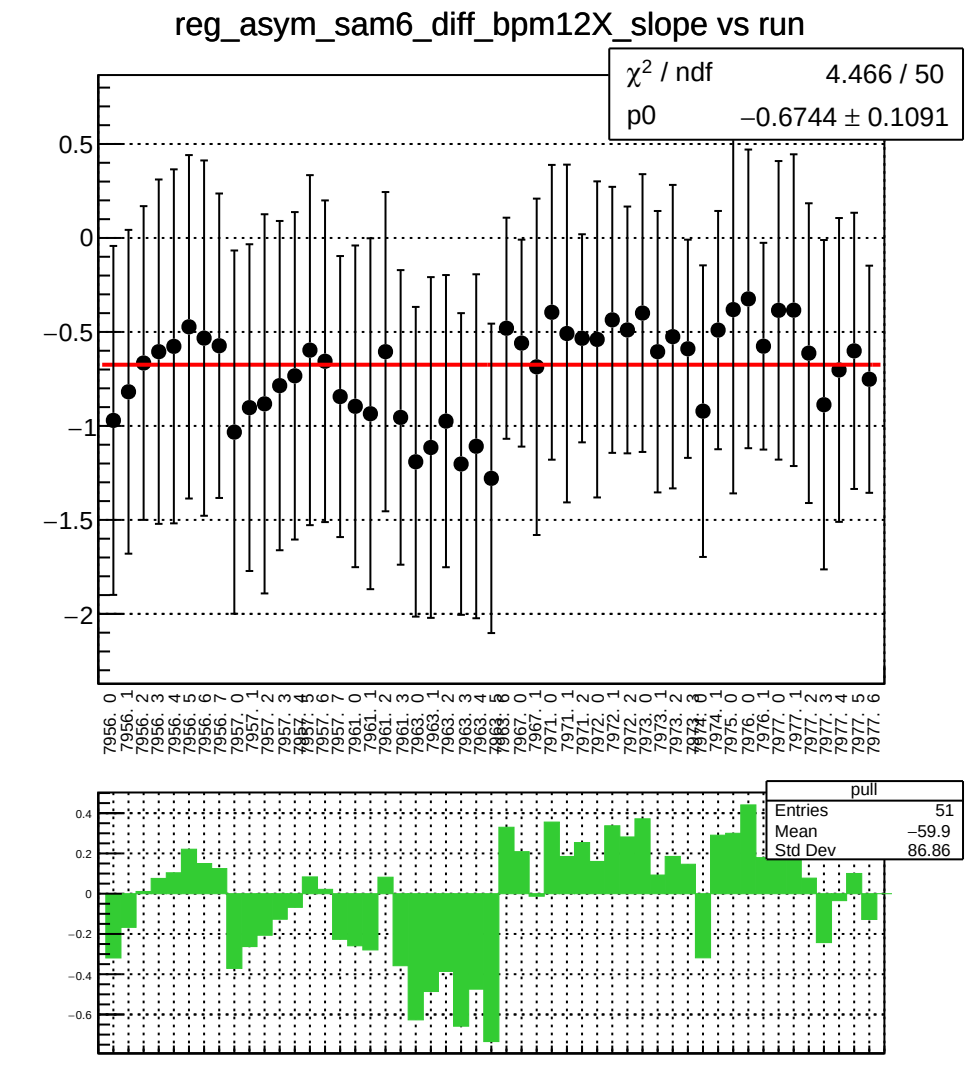

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 8.281 / 50
p0 109.1 ± 3.307
pull
Entries 51
Mean −26.65
Std Dev 48.97

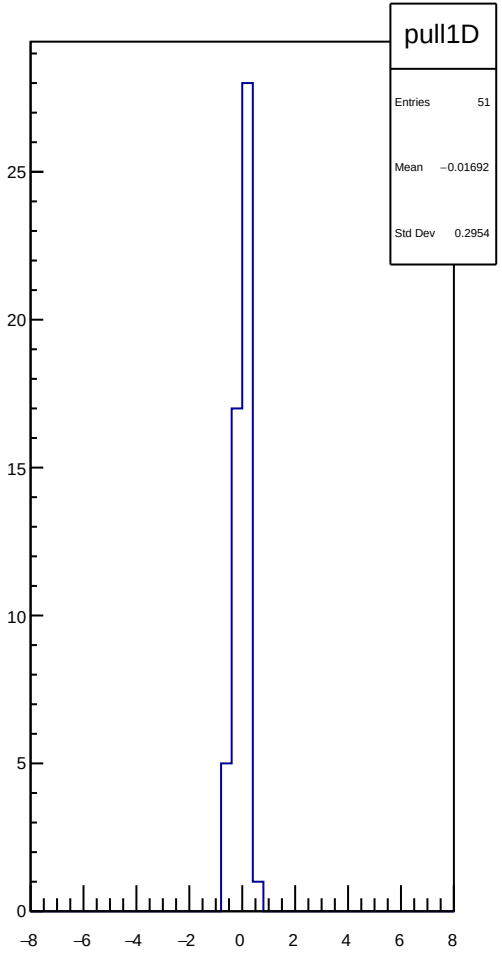

pull1D
Entries 51
Mean 0.0484
Std Dev 0.4

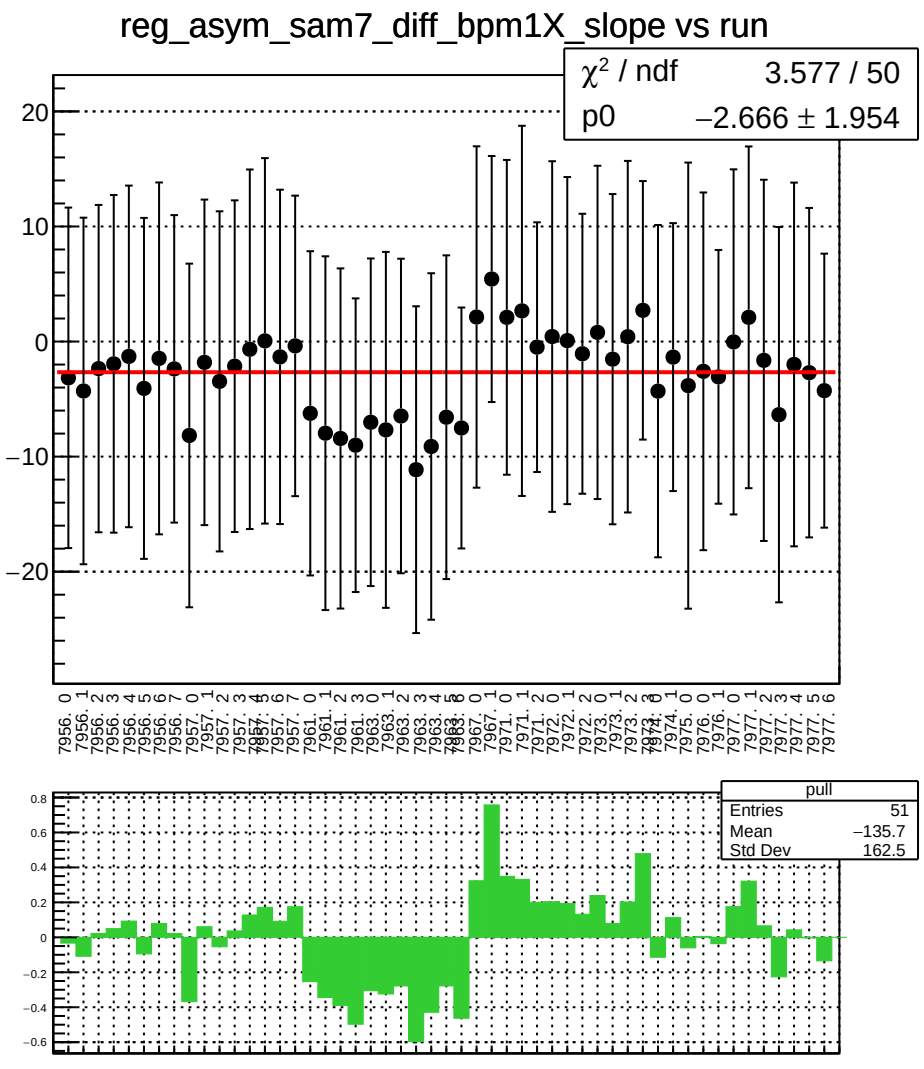

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 13.01 / 50
p0 52.28 ± 2.857
pull
Entries 51
Mean 3475
Std Dev 3446

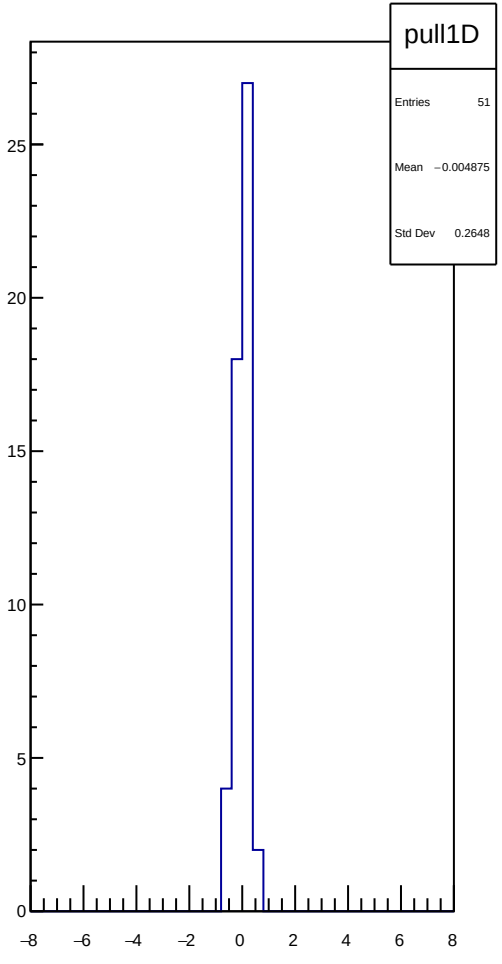

pull1D
Entries 51
Mean −0.0009215
Std Dev 0.5051

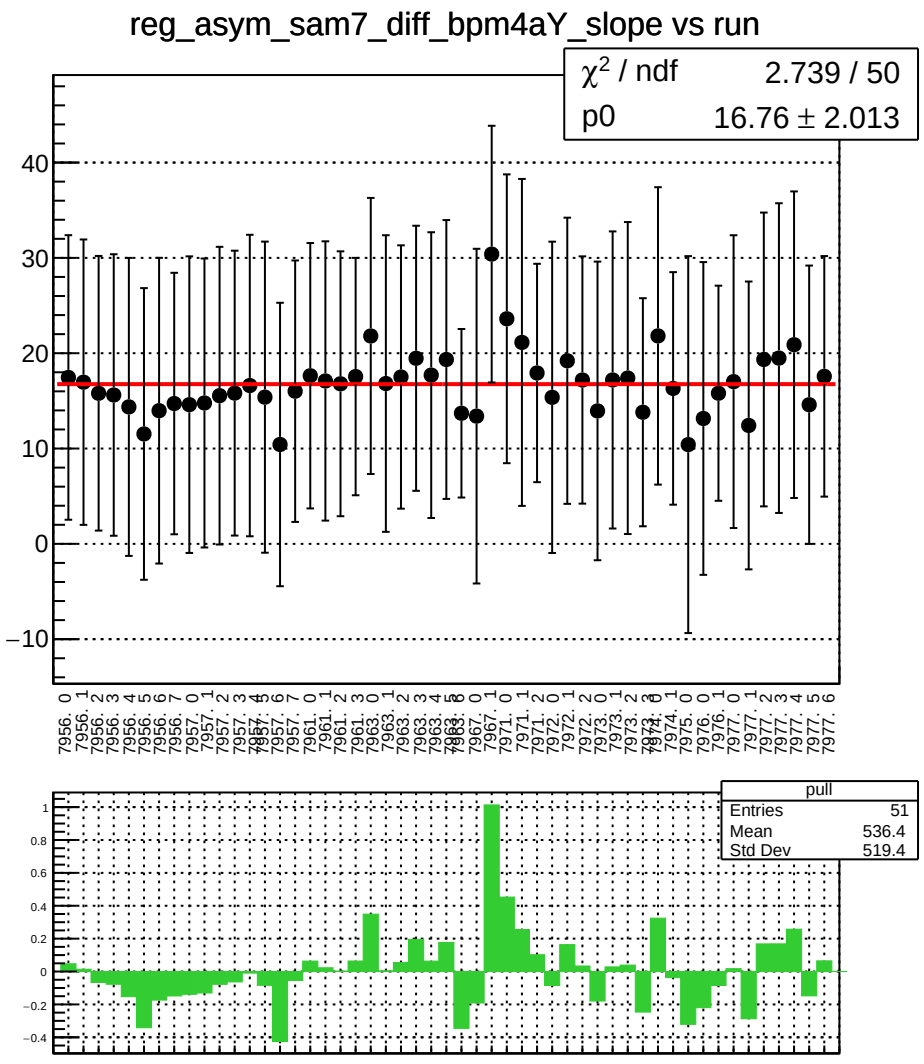

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 5.367 / 50
p0 −12.01± 3.787
pull
Entries 51
Mean 85.33
Std Dev 65.45
pull1D
Entries 51
Mean −0.01296
Std Dev 0.3241

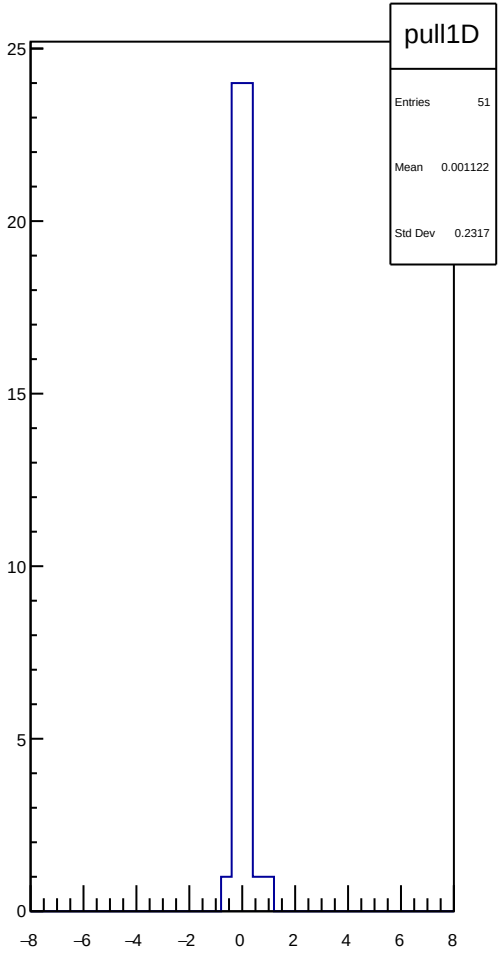

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 4.466 / 50
p0 −0.6744 ± 0.1091
pull
Entries 51
Mean −59.9
Std Dev 86.86

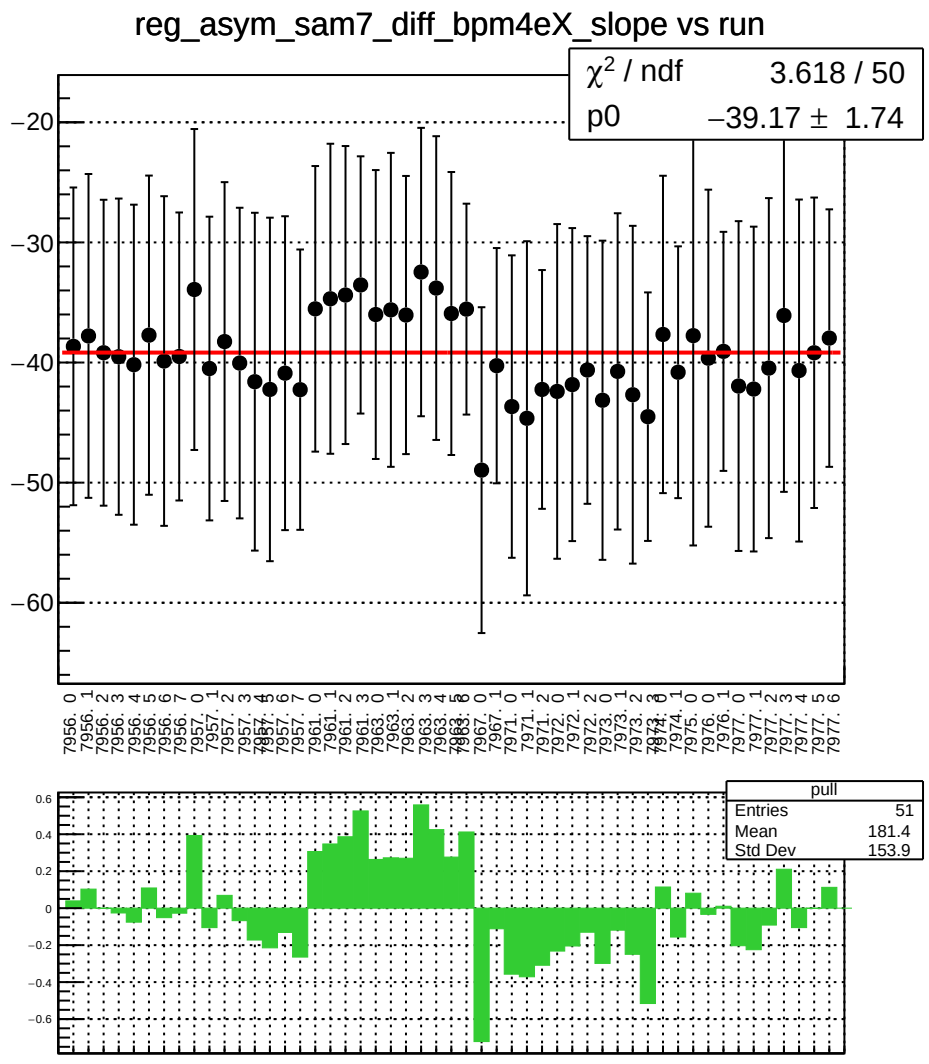

pull1D
Entries 51
Mean −0.01692
Std Dev 0.2954

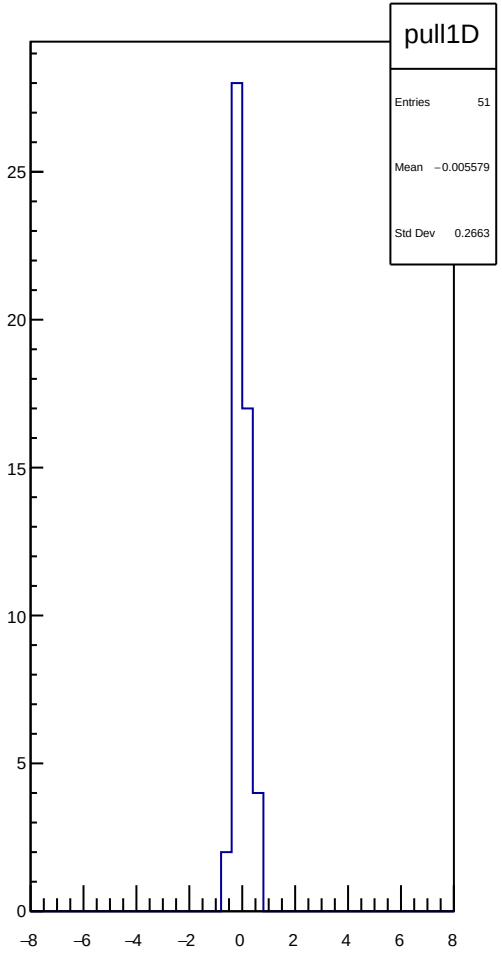

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 3.577 / 50
p0 −2.666 ± 1.954
pull
Entries 51
Mean −135.7
Std Dev 162.5

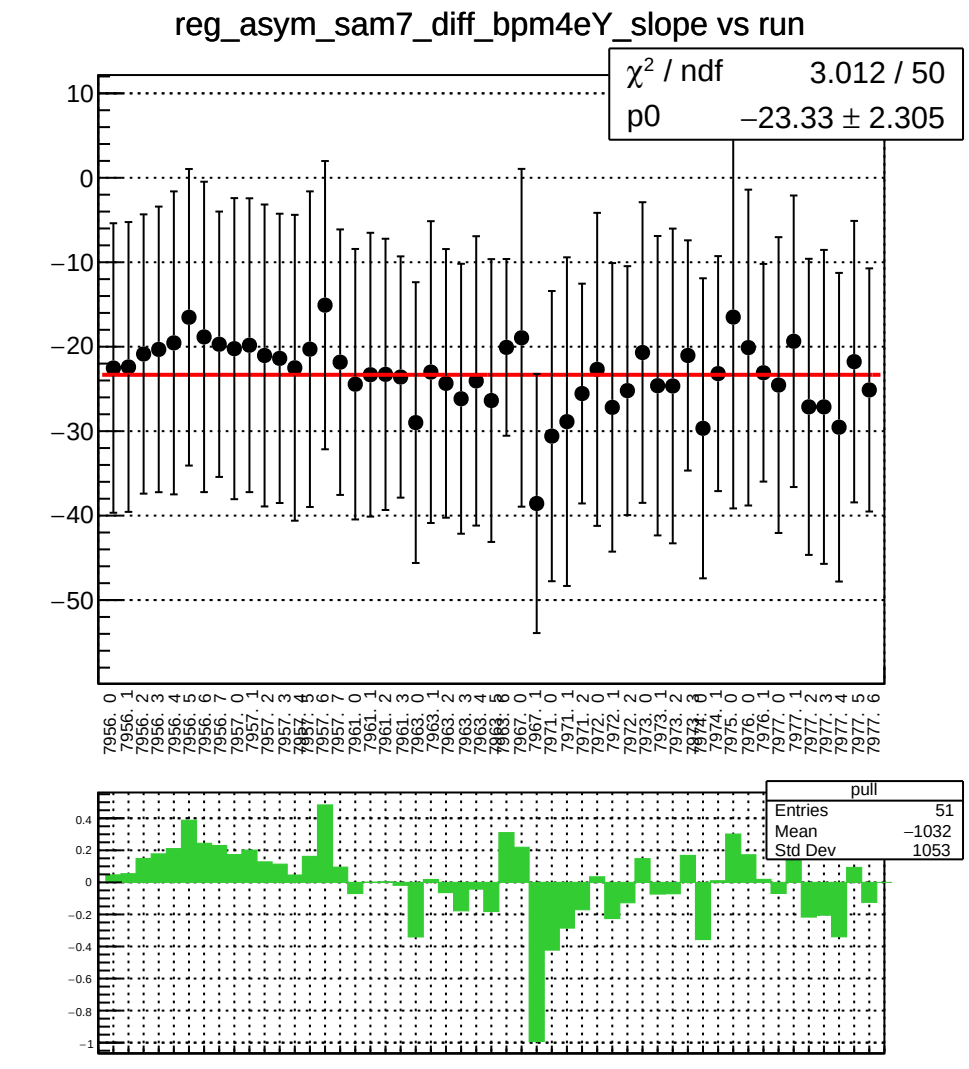

pull1D
Entries 51
Mean −0.004875
Std Dev 0.2648

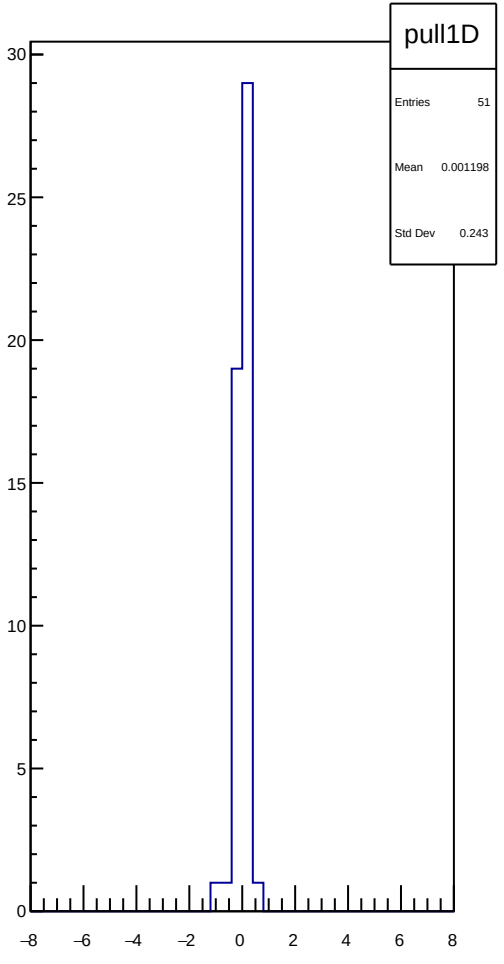

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.739 / 50
p0 16.76 ± 2.013
pull
Entries 51
Mean 536.4
Std Dev 519.4

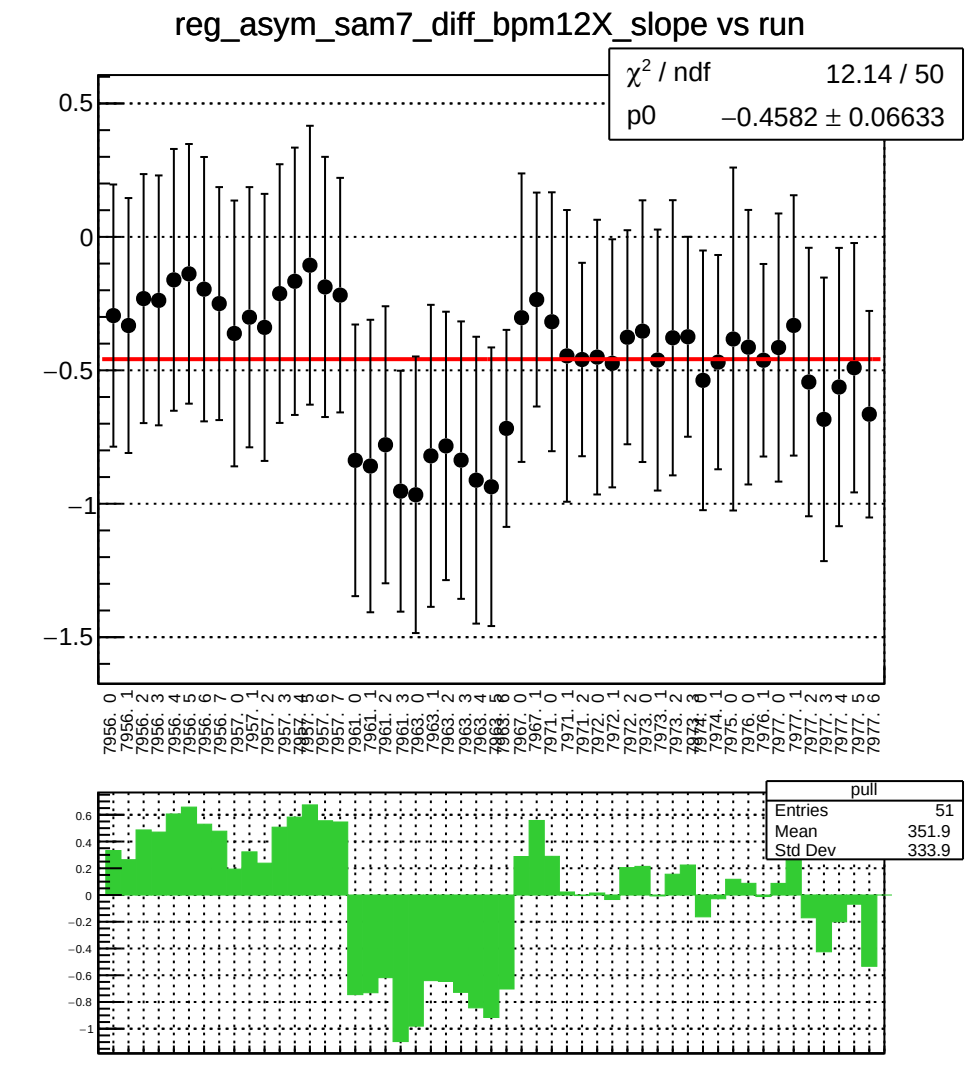

pull1D
Entries 51
Mean 0.001122
Std Dev 0.2317

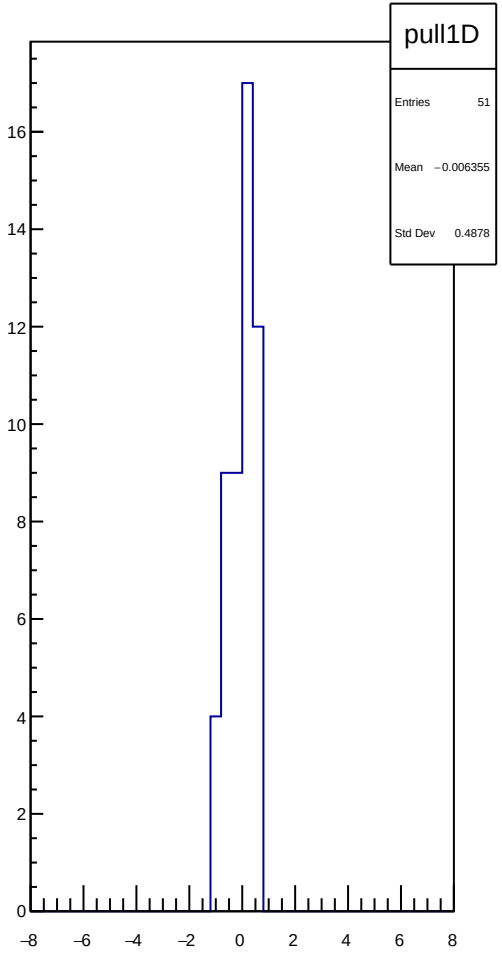

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 3.618 / 50
p0 −39.17 ± 1.74
pull
Entries 51
Mean 181.4
Std Dev 153.9

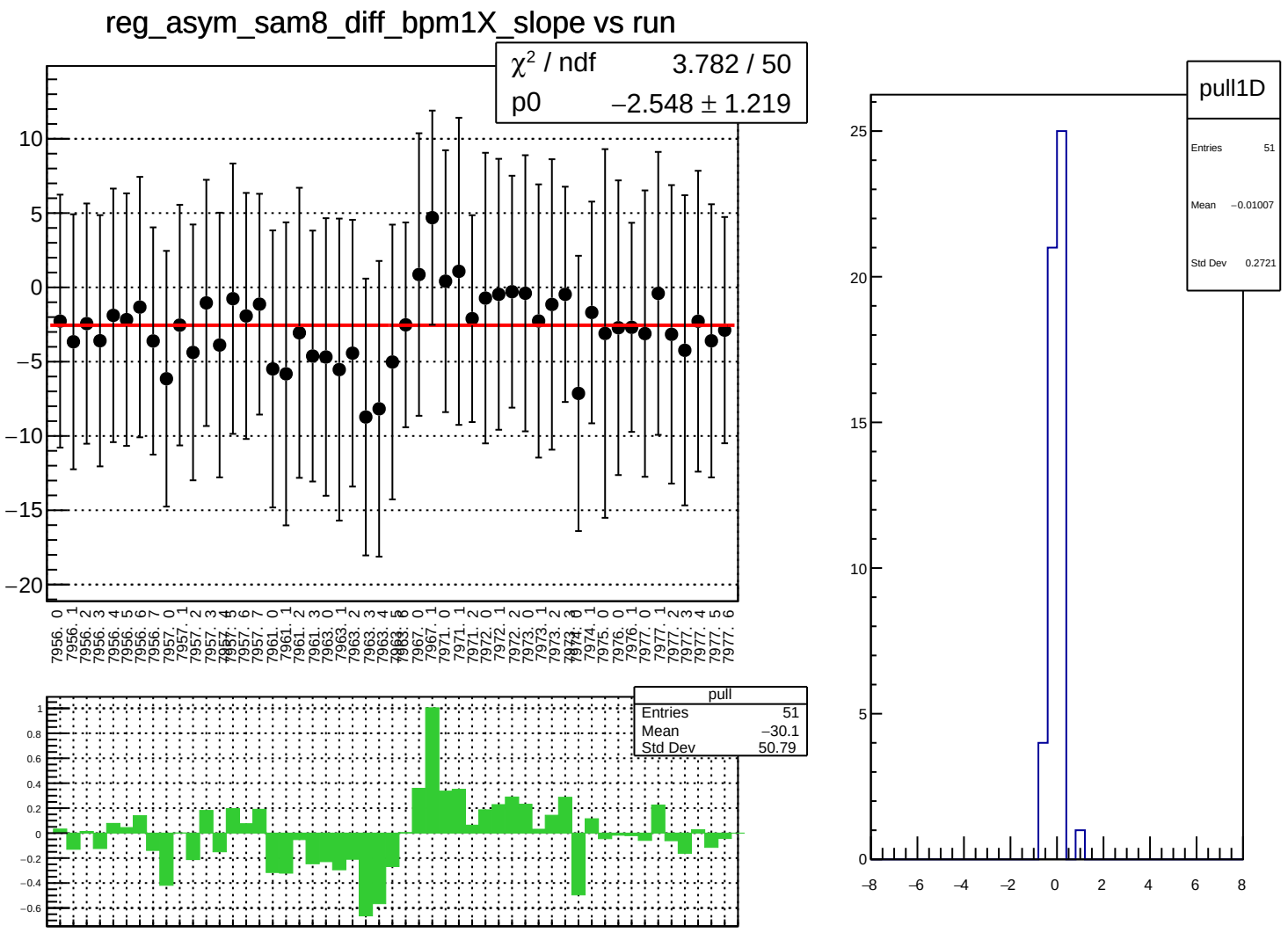

pull1D
Entries 51
Mean −0.005579
Std Dev 0.2663

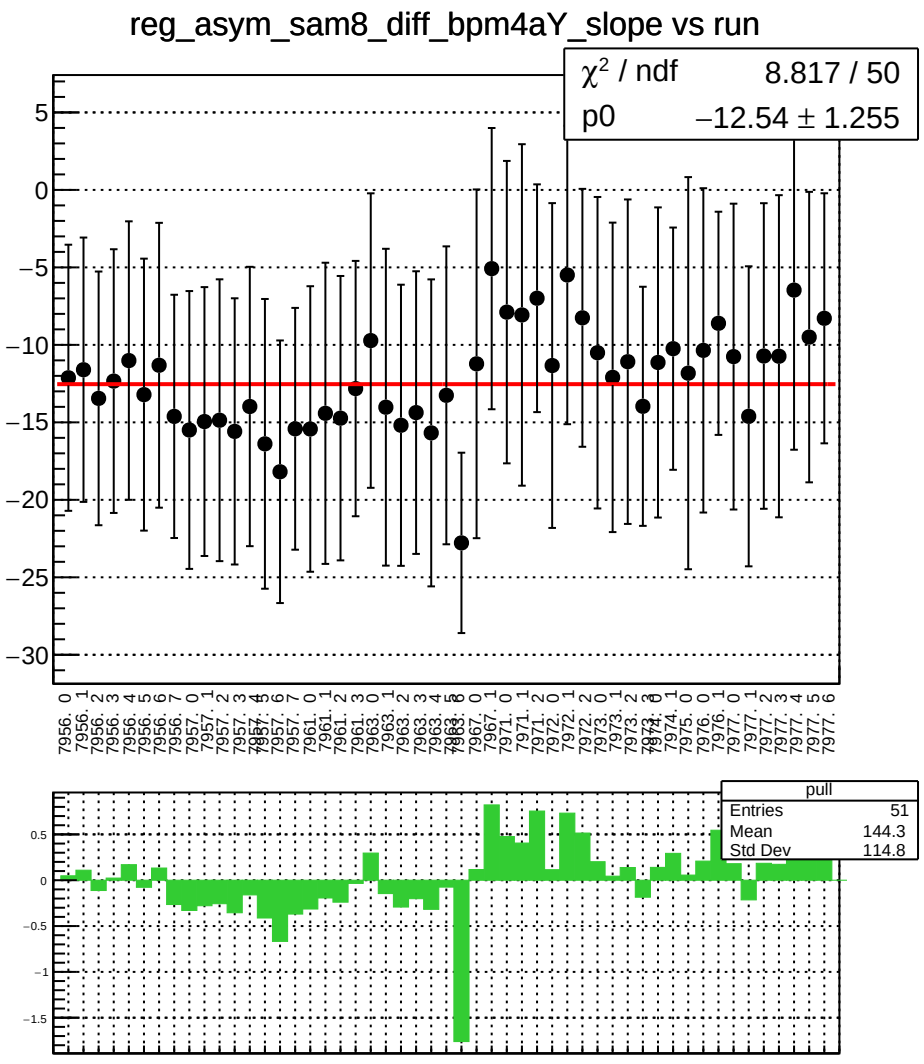

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.012 / 50
p0 −23.33 ± 2.305
pull
Entries 51
Mean −1032
Std Dev 1053

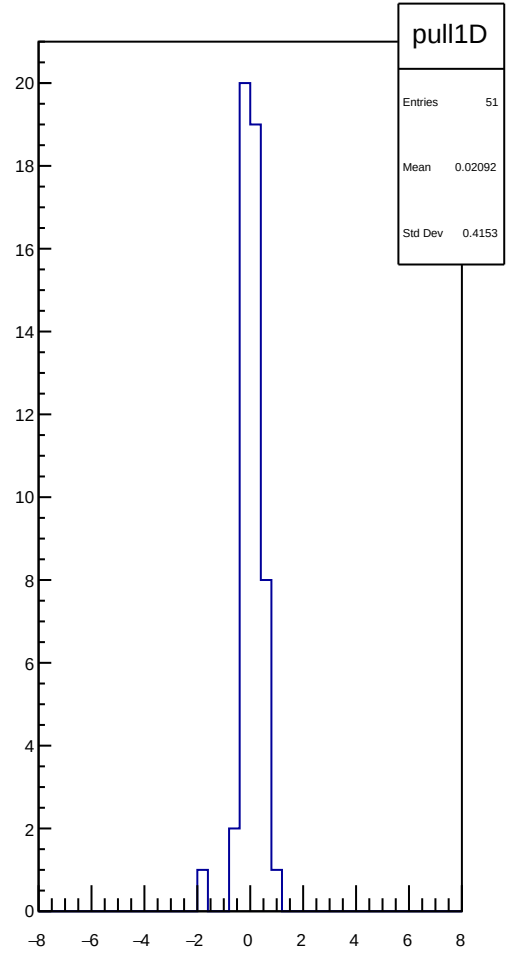

pull1D
Entries 51
Mean 0.001198
Std Dev 0.243

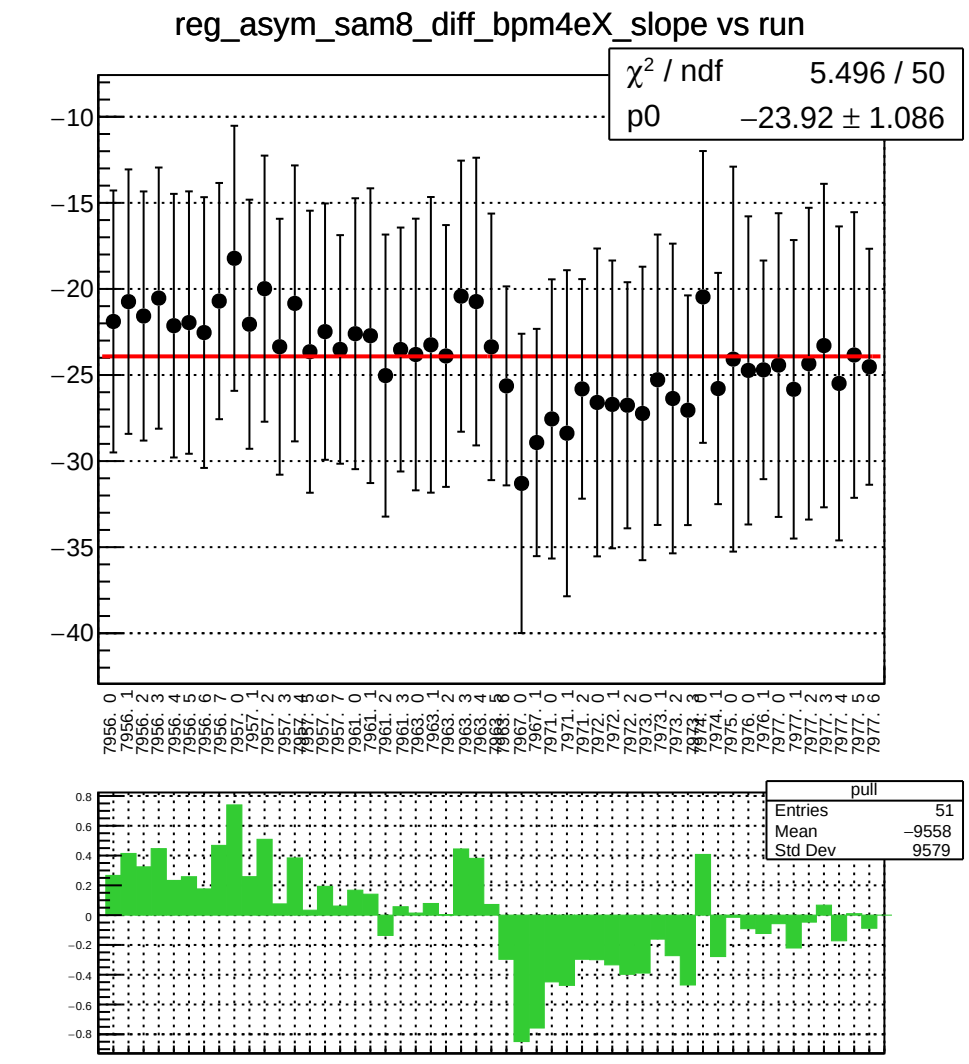

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 12.14 / 50
p0 −0.4582 ± 0.06633
pull
Entries 51
Mean 351.9
Std Dev 333.9

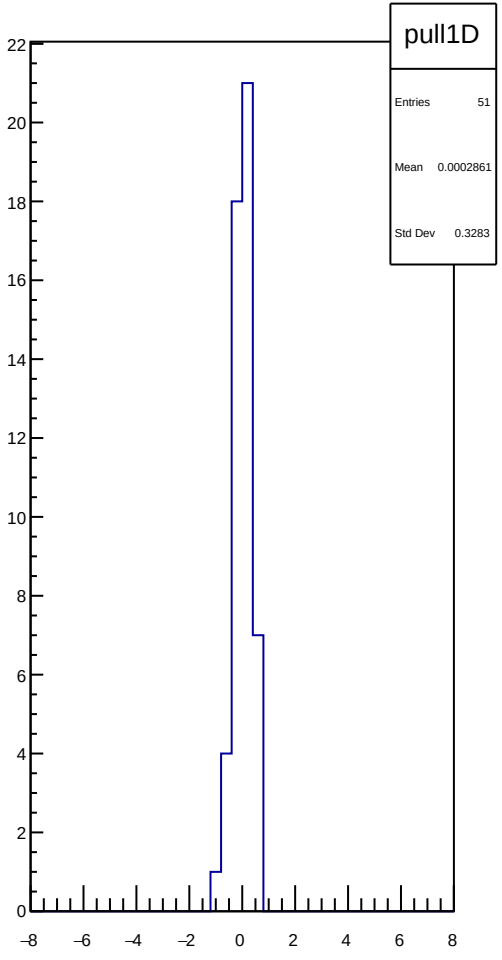

pull1D
Entries 51
Mean −0.006355
Std Dev 0.4878

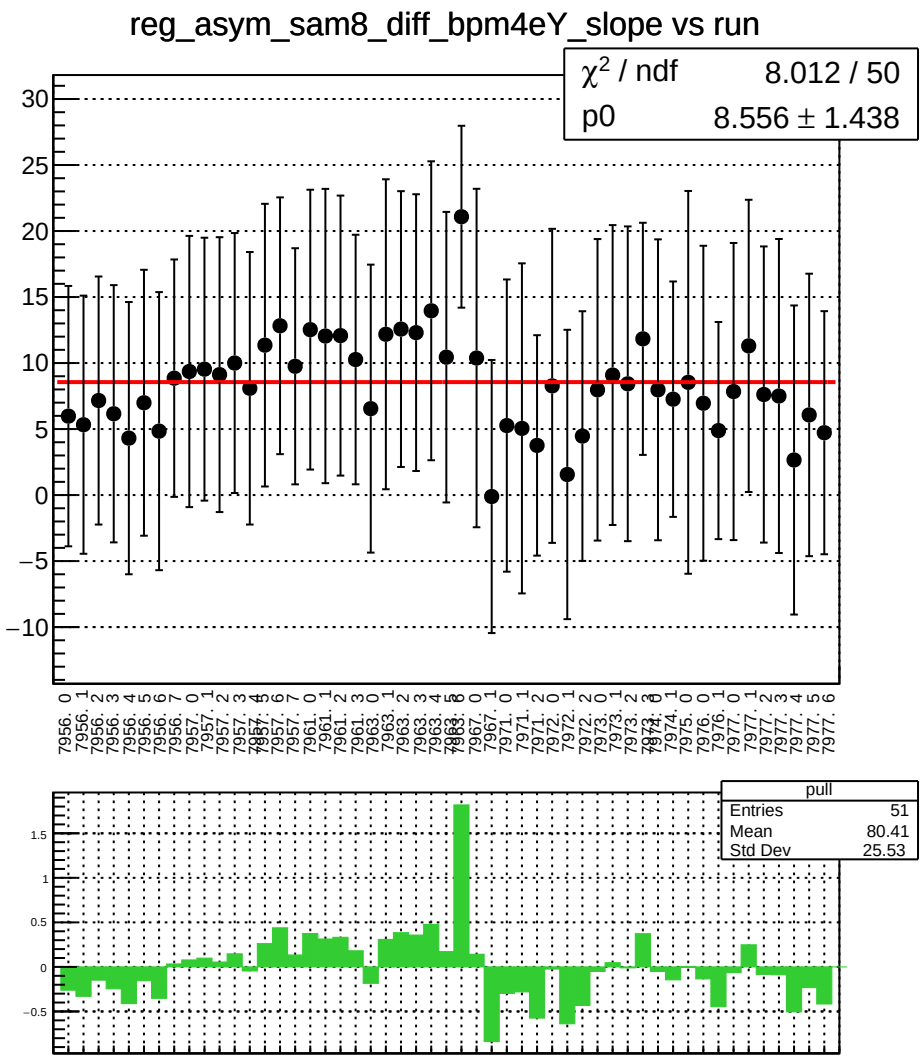

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3.782 / 50
p0 −2.548 ± 1.219
pull
Entries 51
Mean −30.1
Std Dev 50.79
pull1D
Entries 51
Mean −0.01007
Std Dev 0.2721

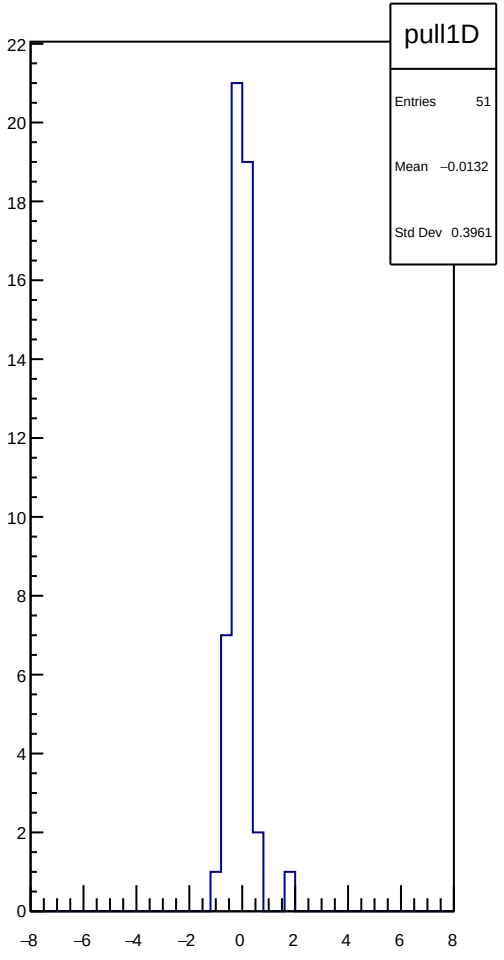

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 8.817 / 50
p0 −12.54 ± 1.255
pull
Entries 51
Mean 144.3
Std Dev 114.8

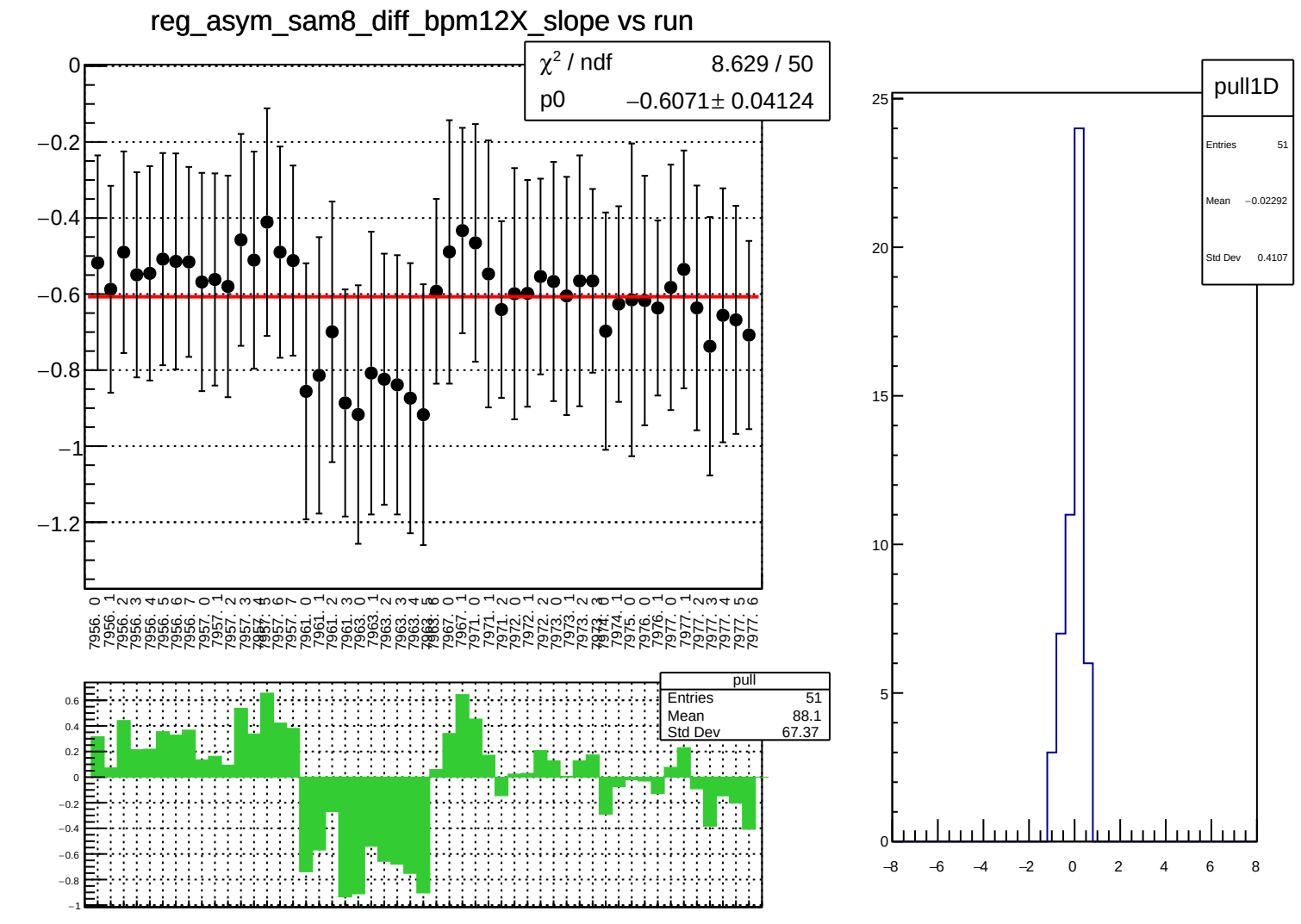

pull1D
Entries 51
Mean 0.02092
Std Dev 0.4153

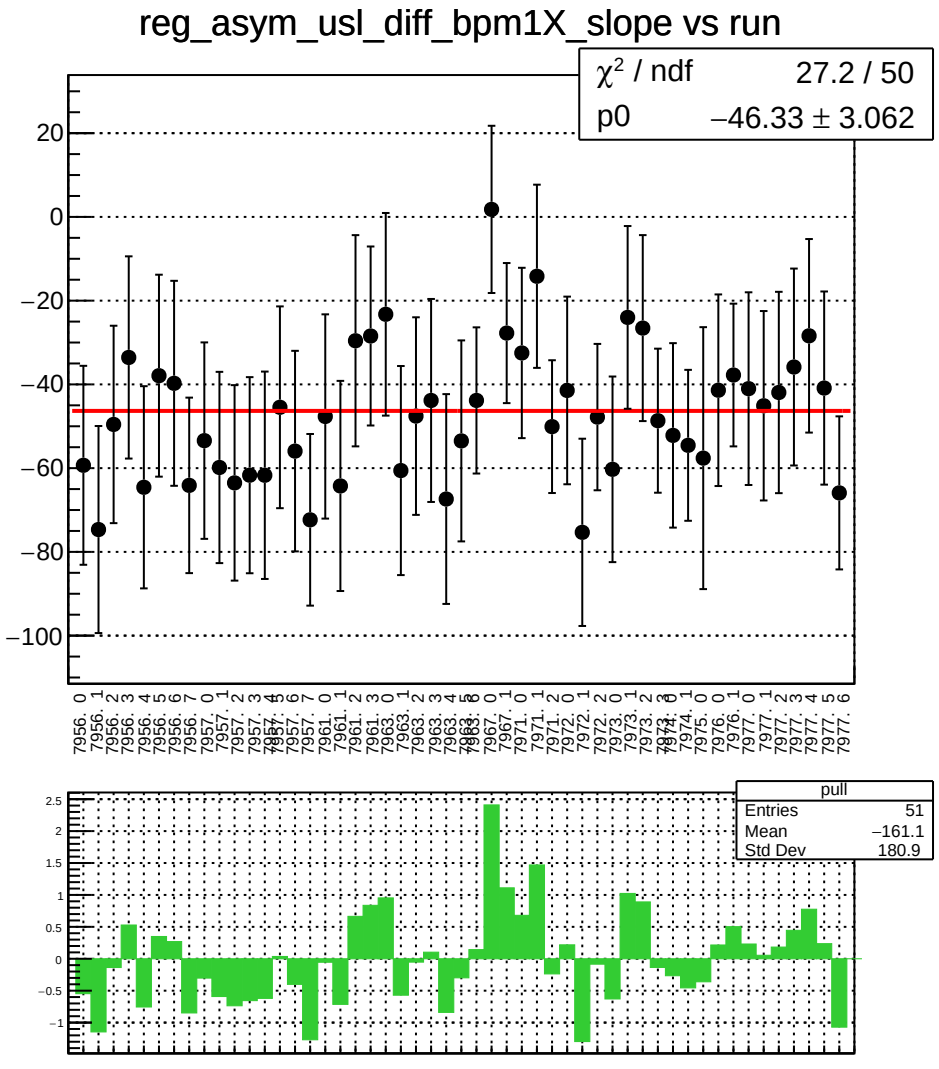

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 5.496 / 50
p0 −23.92 ± 1.086
pull
Entries 51
Mean −9558
Std Dev 9579

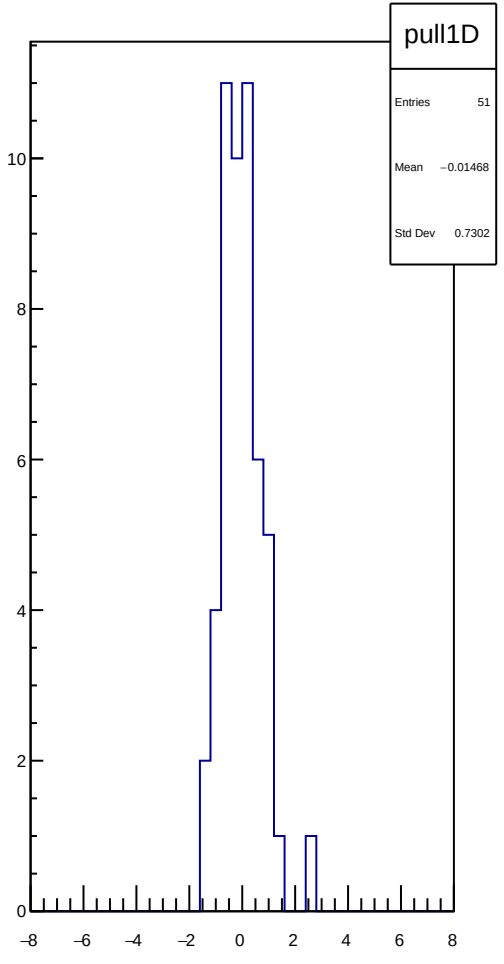

pull1D
Entries 51
Mean 0.0002861
Std Dev 0.3283

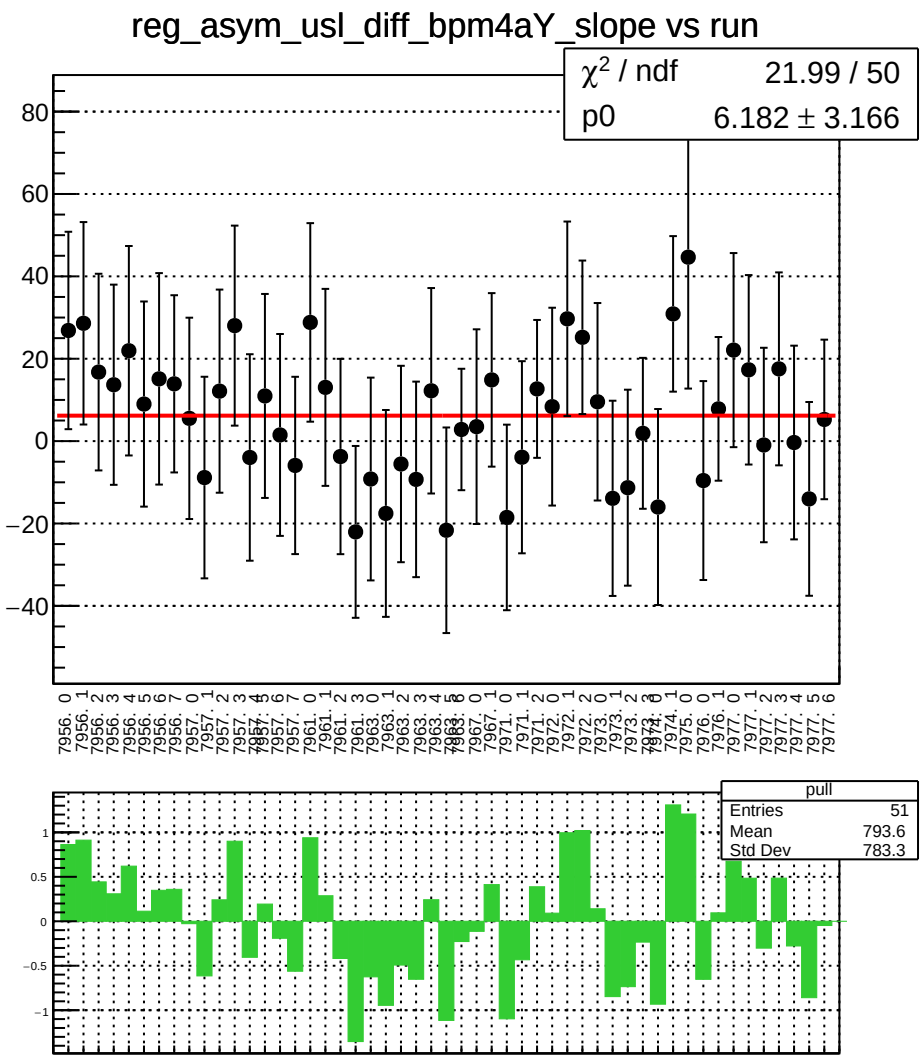

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 8.012 / 50
p0 8.556 ± 1.438
pull
Entries 51
Mean 80.41
Std Dev 25.53

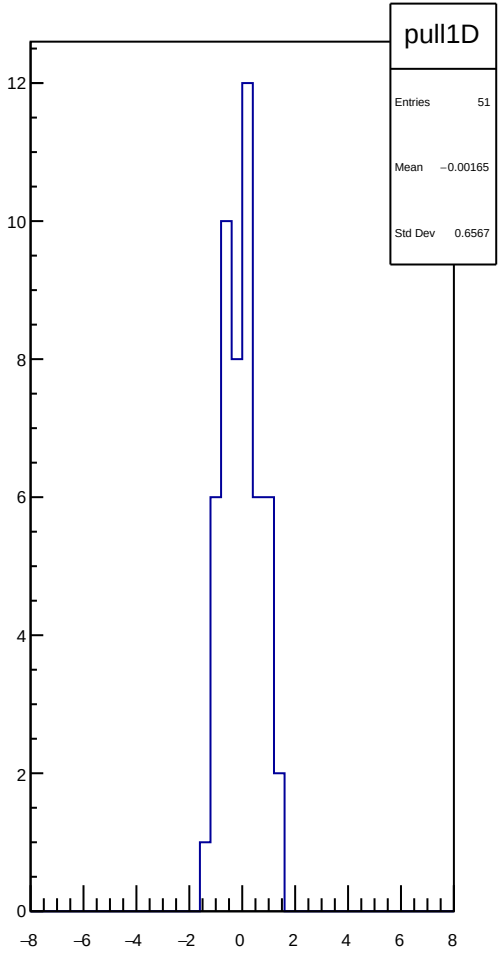

pull1D
Entries 51
Mean −0.0132
Std Dev 0.3961

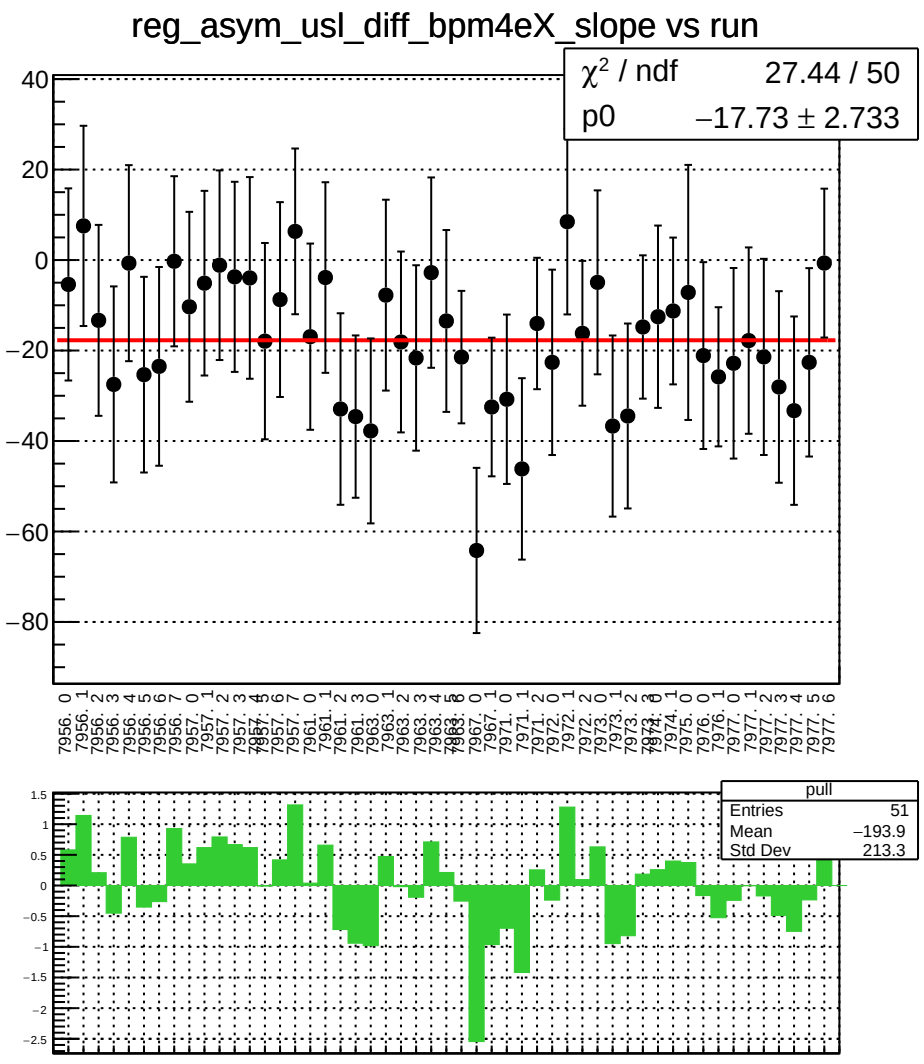

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 8.629 / 50
p0 −0.6071± 0.04124
pull
Entries 51
Mean 88.1
Std Dev 67.37
pull1D
Entries 51
Mean −0.02292
Std Dev 0.4107

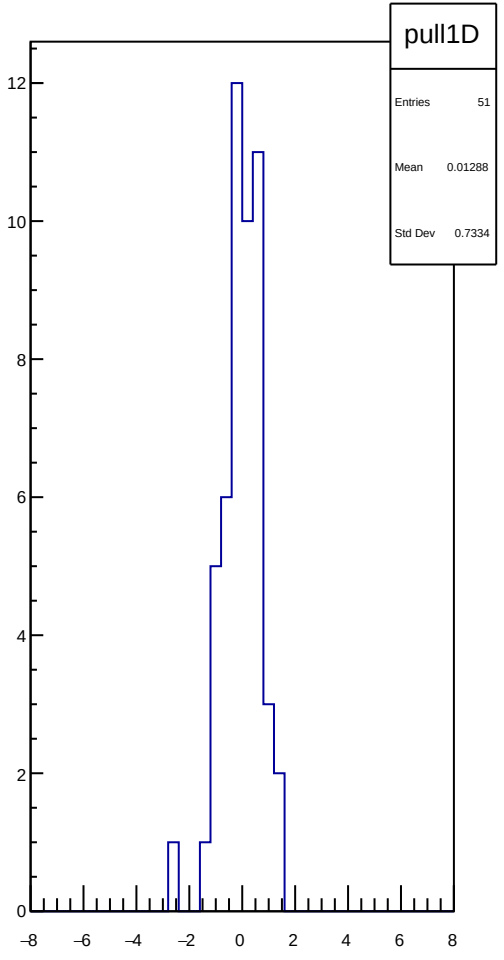

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 27.2 / 50
p0 −46.33 ± 3.062
pull
Entries 51
Mean −161.1
Std Dev 180.9

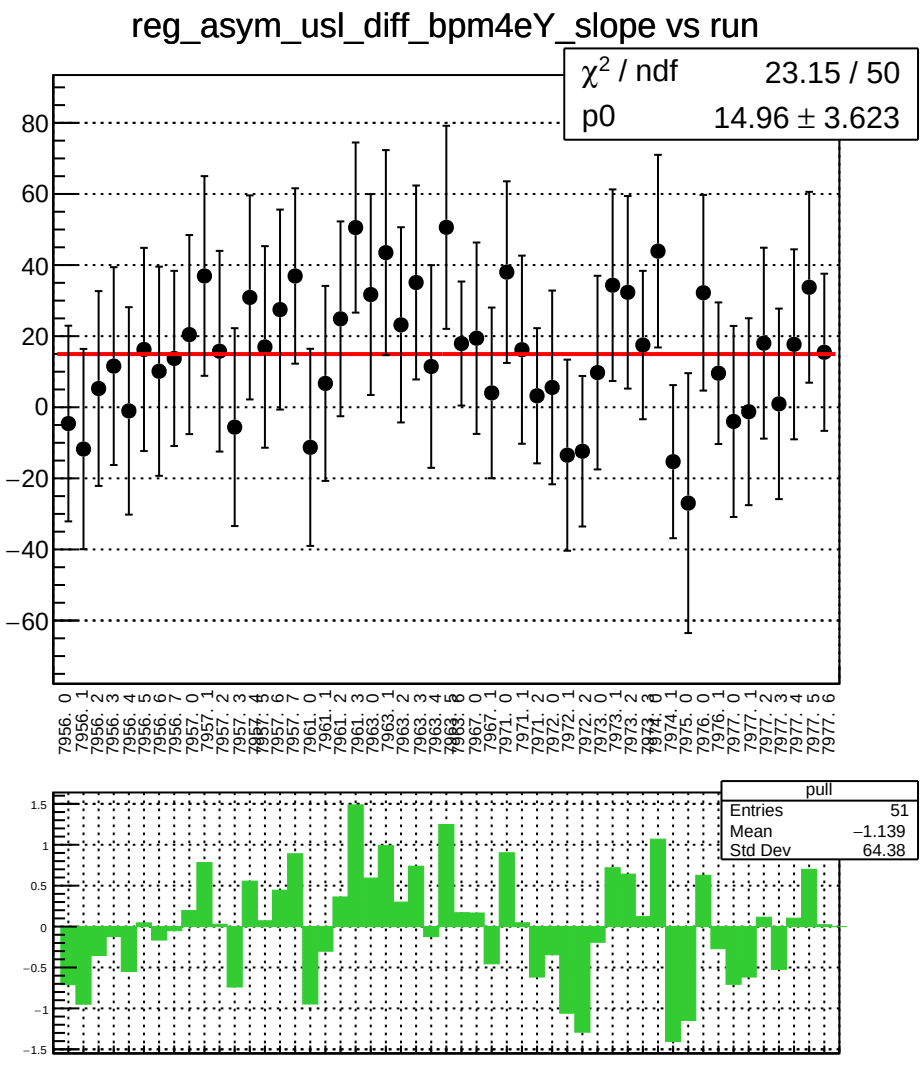

pull1D
Entries 51
Mean −0.01468
Std Dev 0.7302

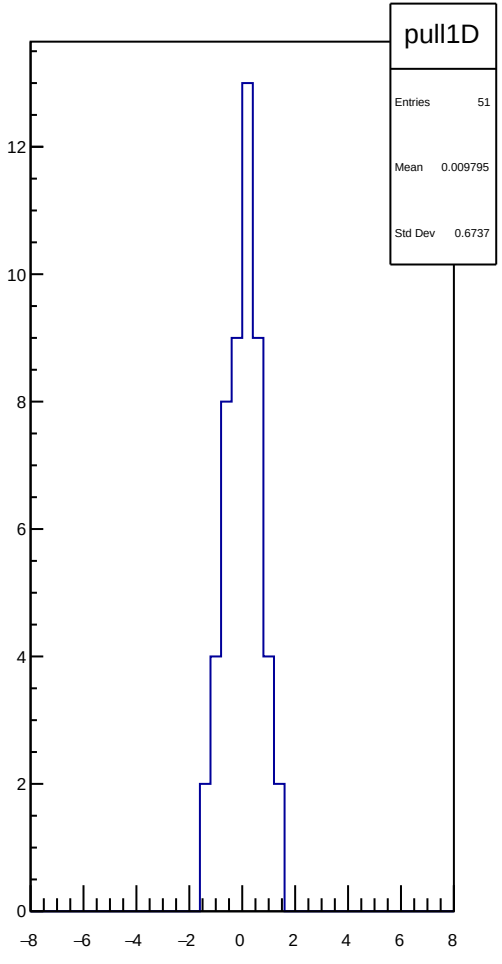

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 21.99 / 50
p0 6.182 ± 3.166
pull
Entries 51
Mean 793.6
Std Dev 783.3

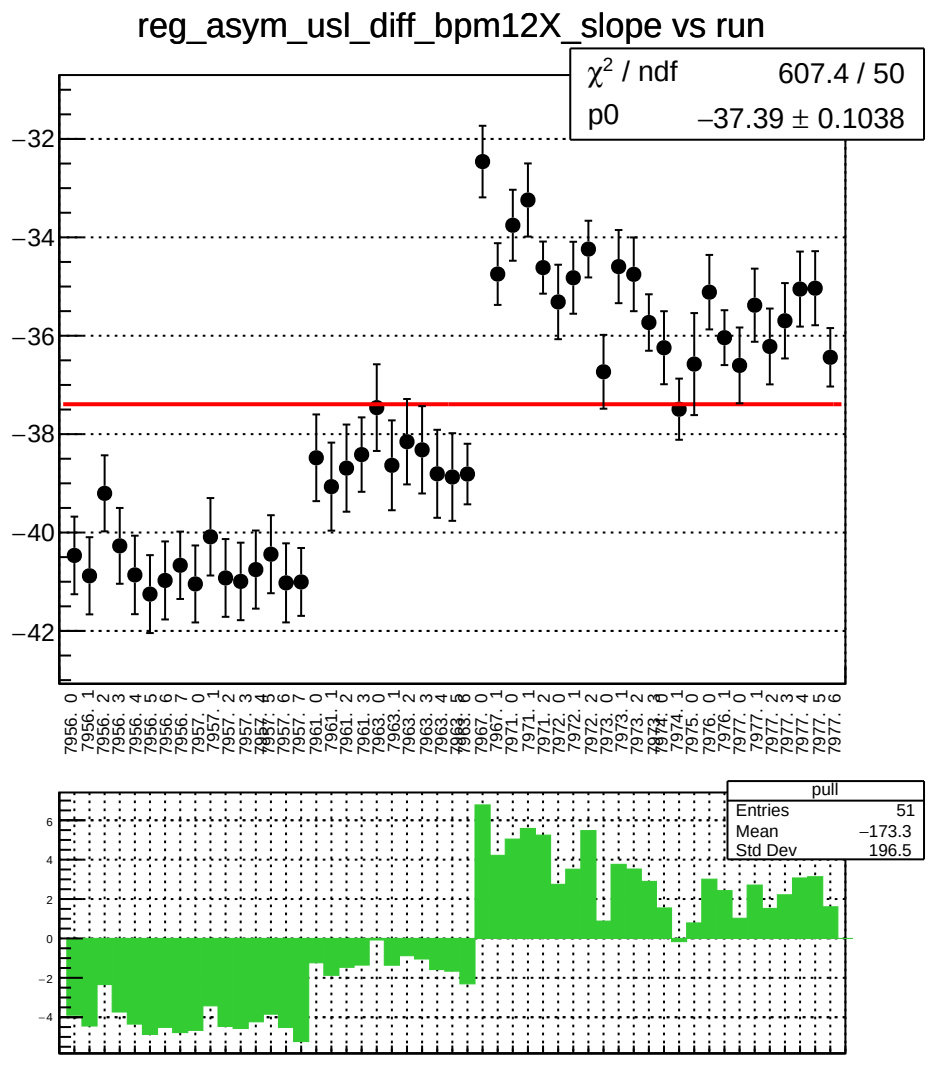

pull1D
Entries 51
Mean −0.00165
Std Dev 0.6567

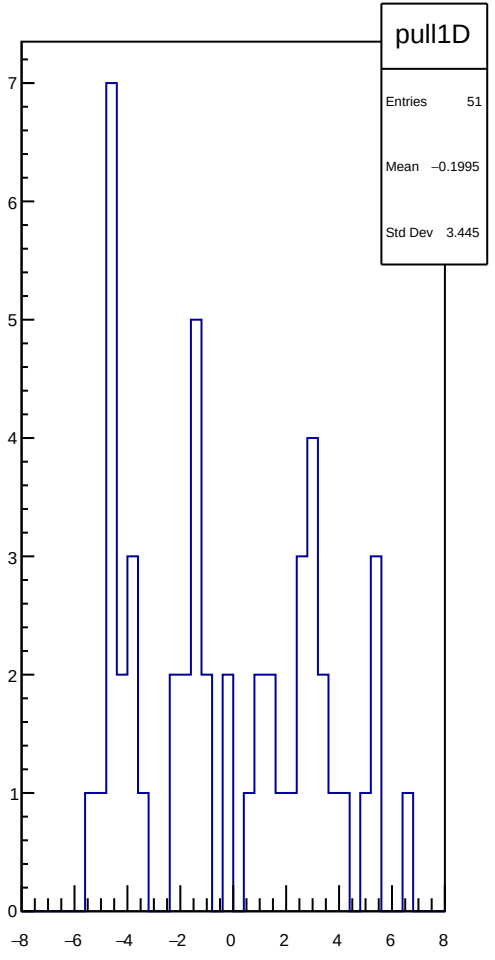

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 27.44 / 50
p0 −17.73 ± 2.733
pull
Entries 51
Mean −193.9
Std Dev 213.3

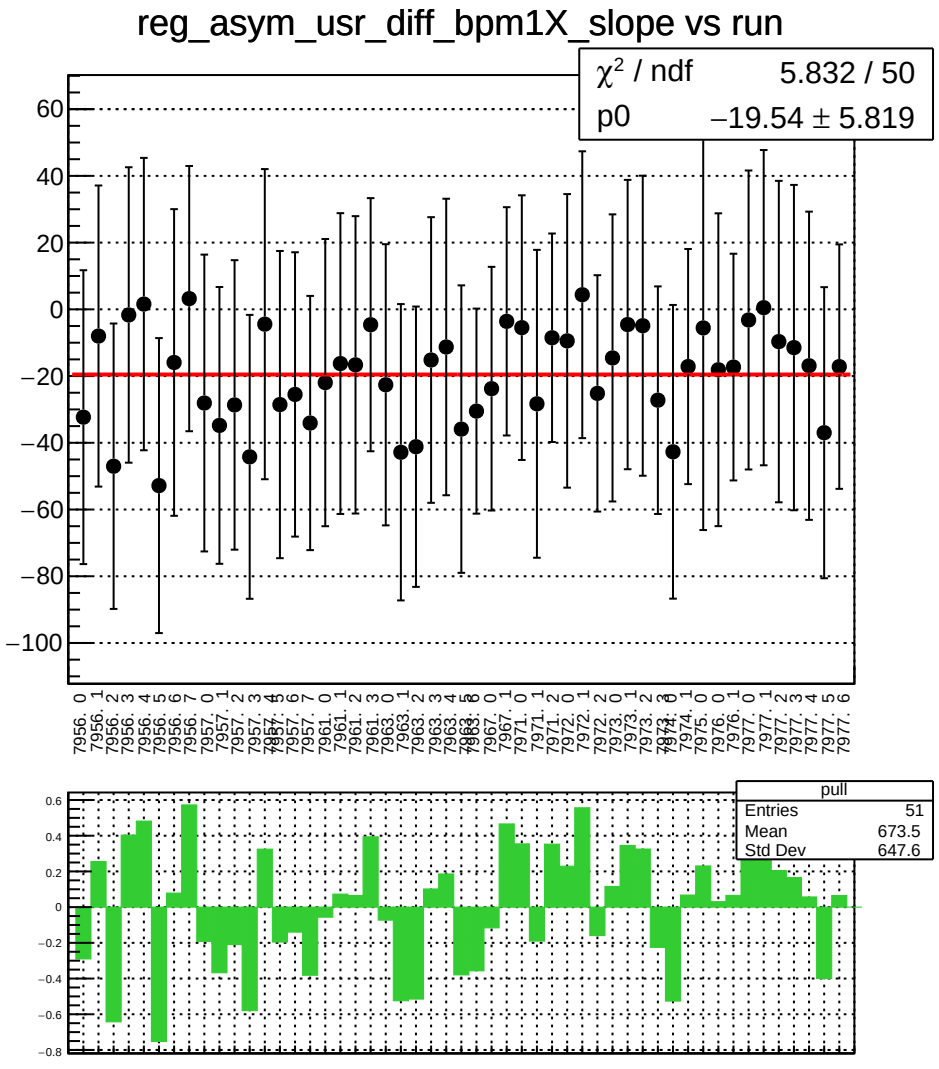

pull1D
Entries 51
Mean 0.01288
Std Dev 0.7334

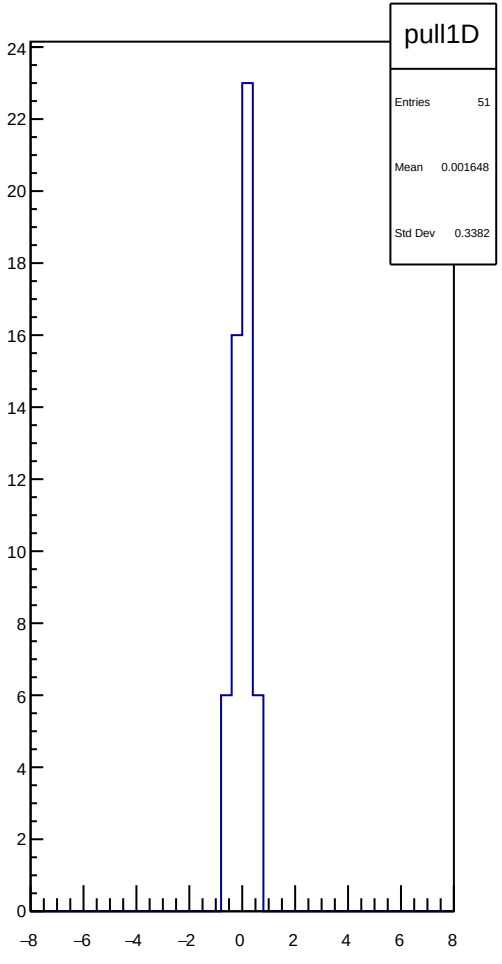

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 23.15 / 50
p0 14.96 ± 3.623
pull
Entries 51
Mean −1.139
Std Dev 64.38

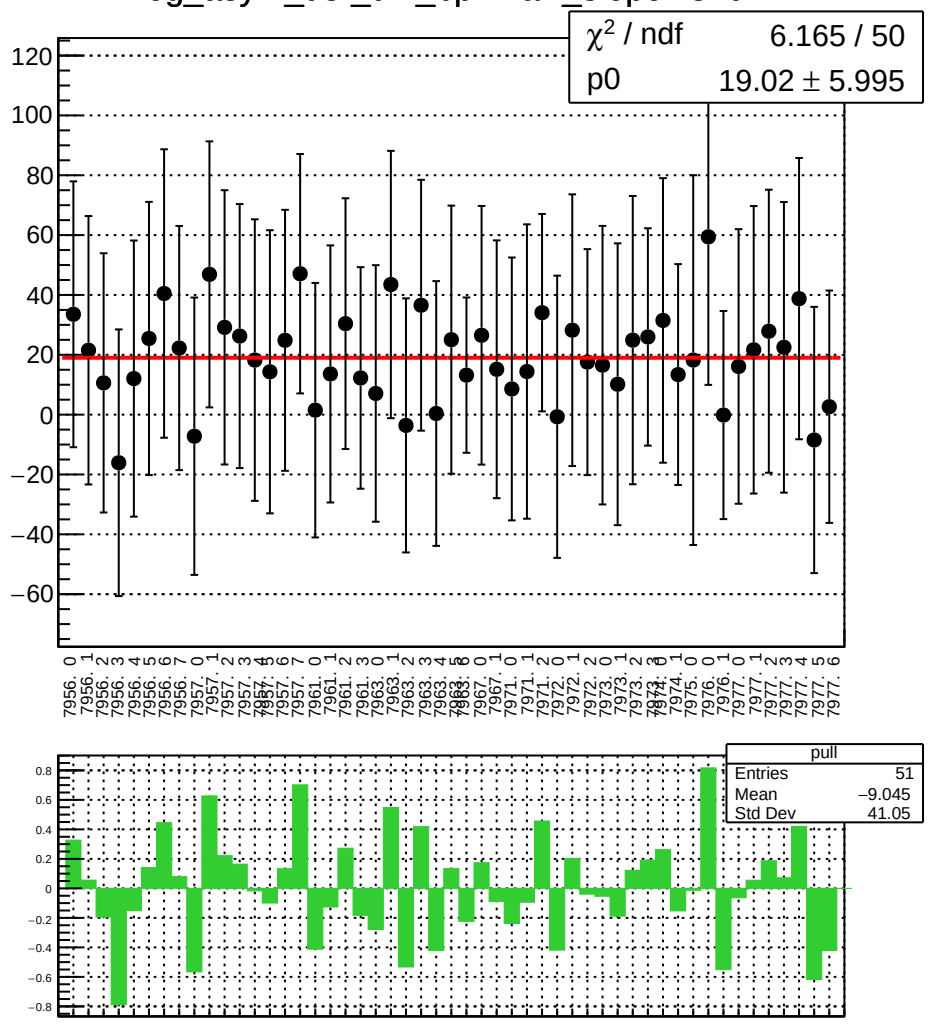

pull1D
Entries 51
Mean 0.009795
Std Dev 0.6737

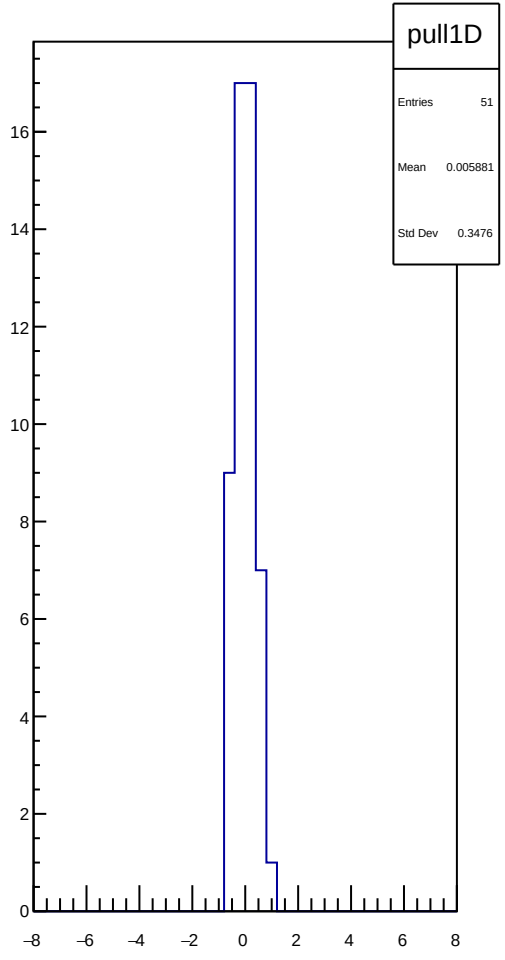

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 607.4 / 50
p0 −37.39 ± 0.1038
pull
Entries 51
Mean −173.3
Std Dev 196.5

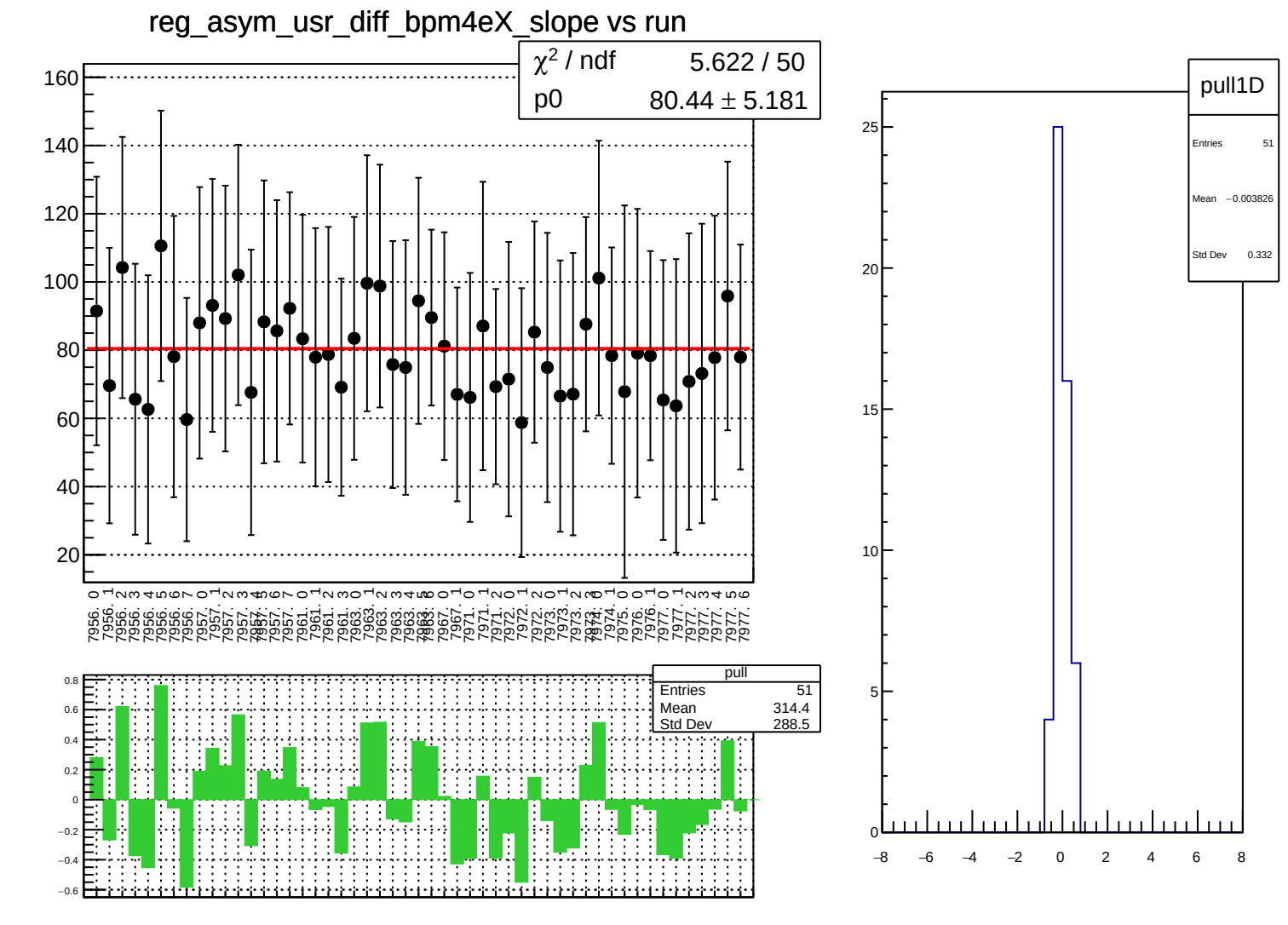

pull1D
Entries 51
Mean −0.1995
Std Dev 3.445

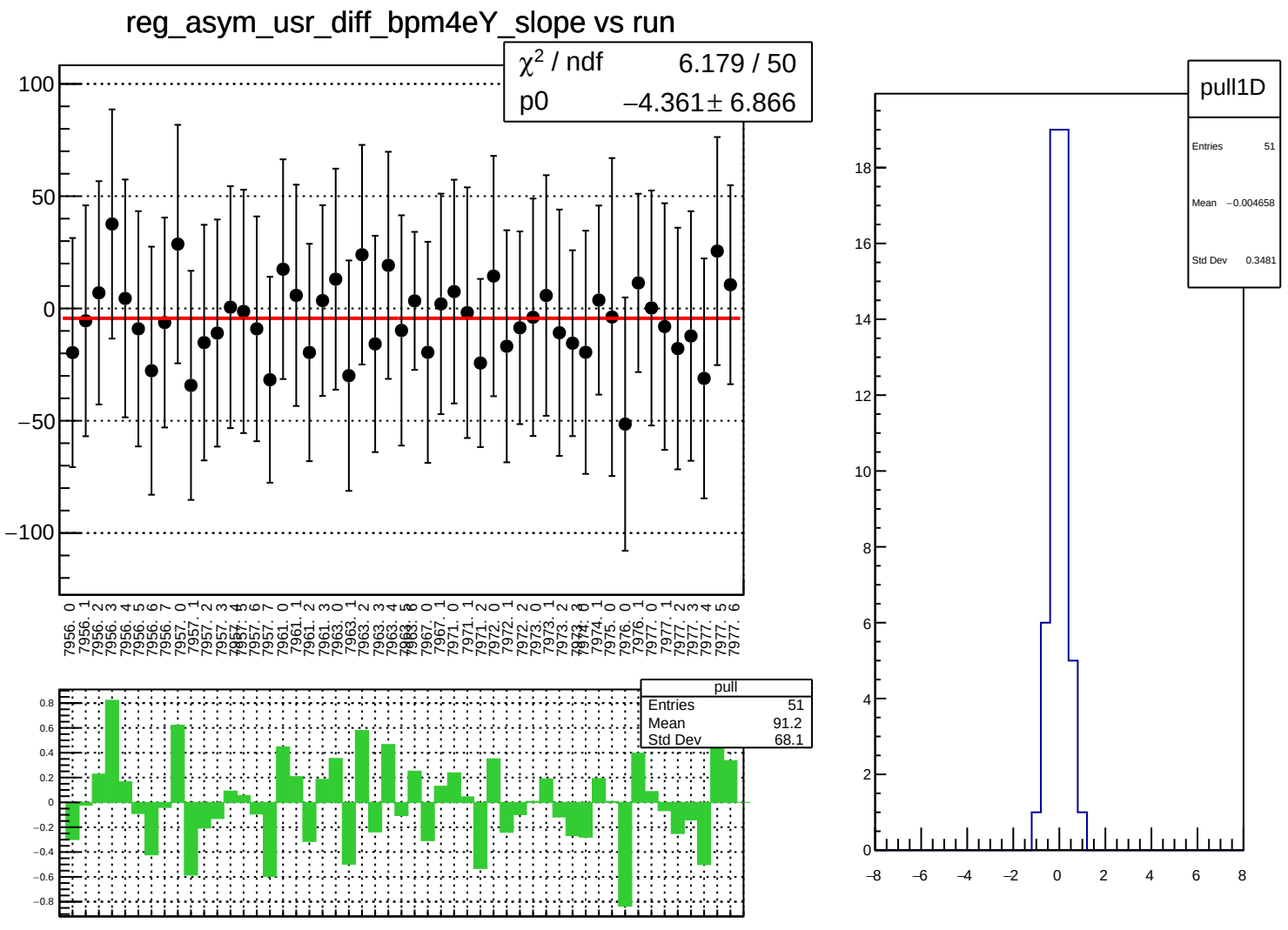

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 5.832 / 50
p0 −19.54 ± 5.819
pull
Entries 51
Mean 673.5
Std Dev 647.6

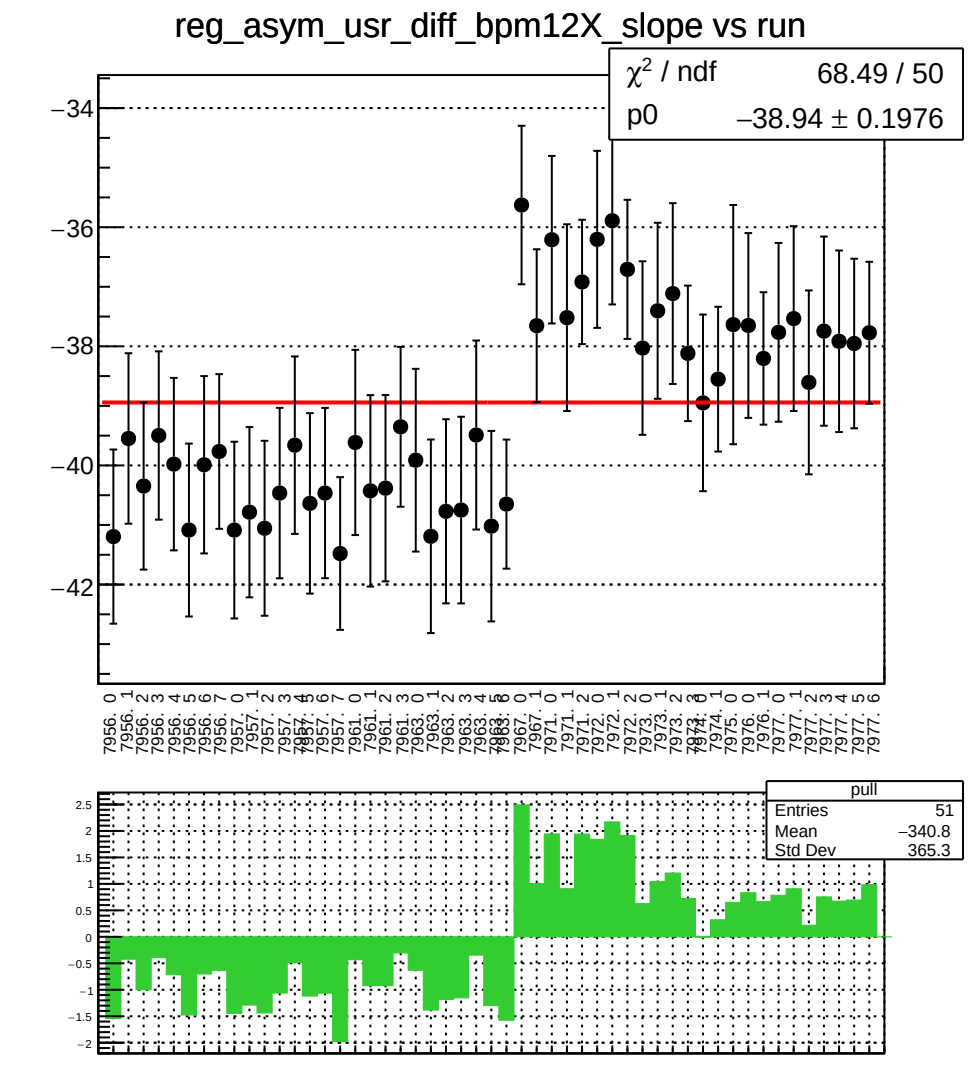

pull1D
Entries 51
Mean 0.001648
Std Dev 0.3382

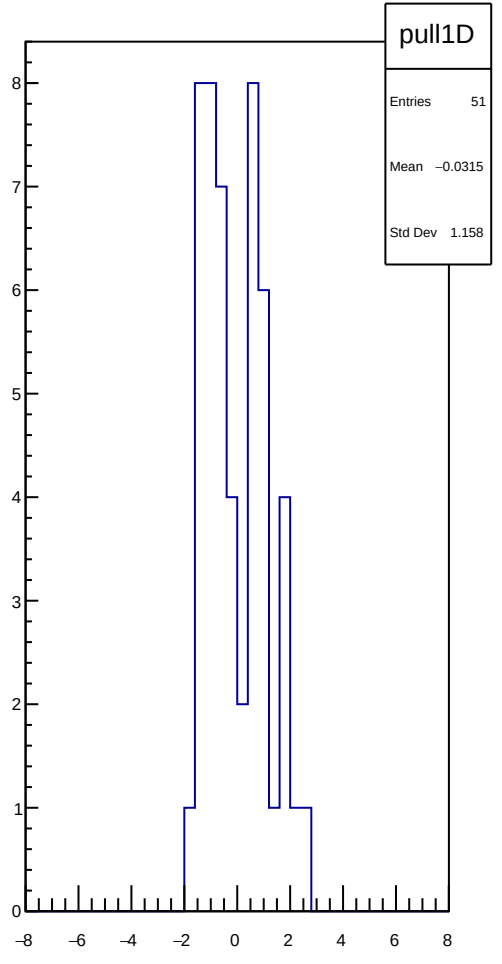

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 6.165 / 50
p0 19.02 ± 5.995
pull
Entries 51
Mean −9.045
Std Dev 41.05

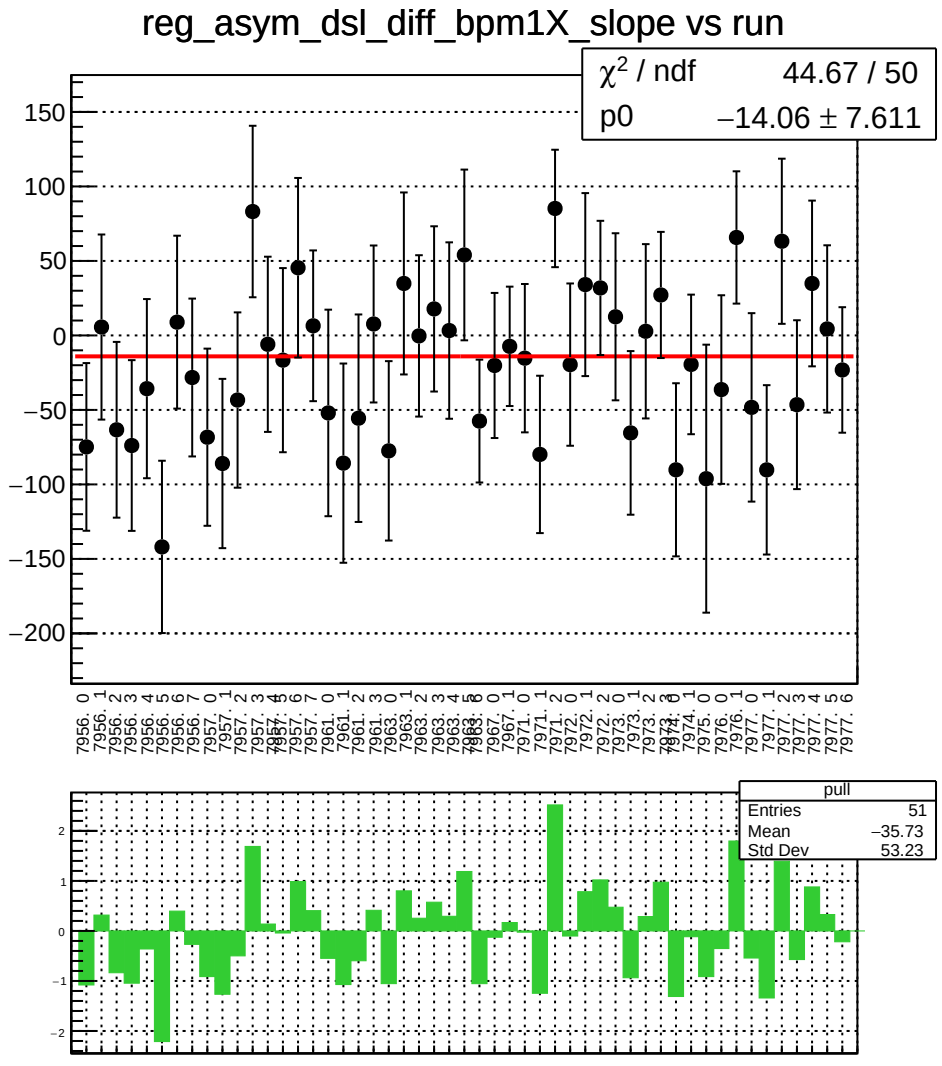

pull1D
Entries 51
Mean 0.005881
Std Dev 0.3476

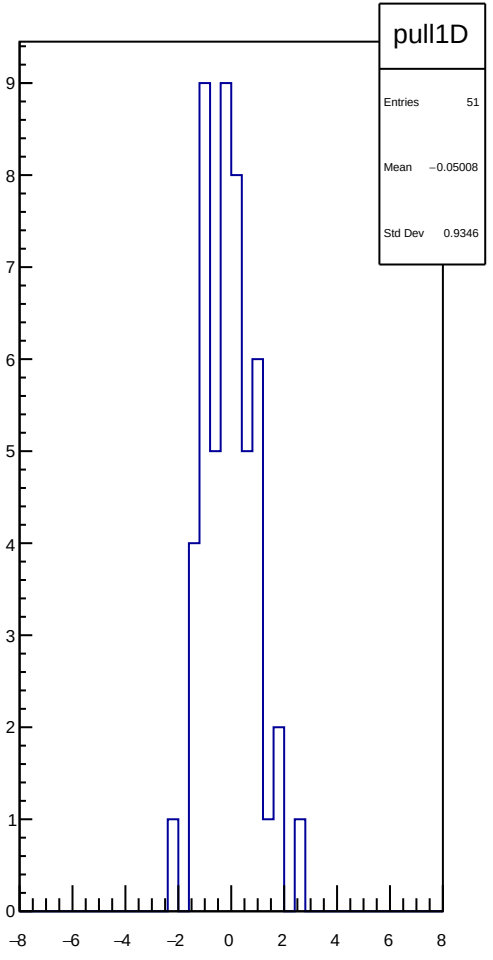

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 5.622 / 50
p0 80.44 ± 5.181
pull
Entries 51
Mean 314.4
Std Dev 288.5
pull1D
Entries 51
Mean −0.003826
Std Dev 0.332

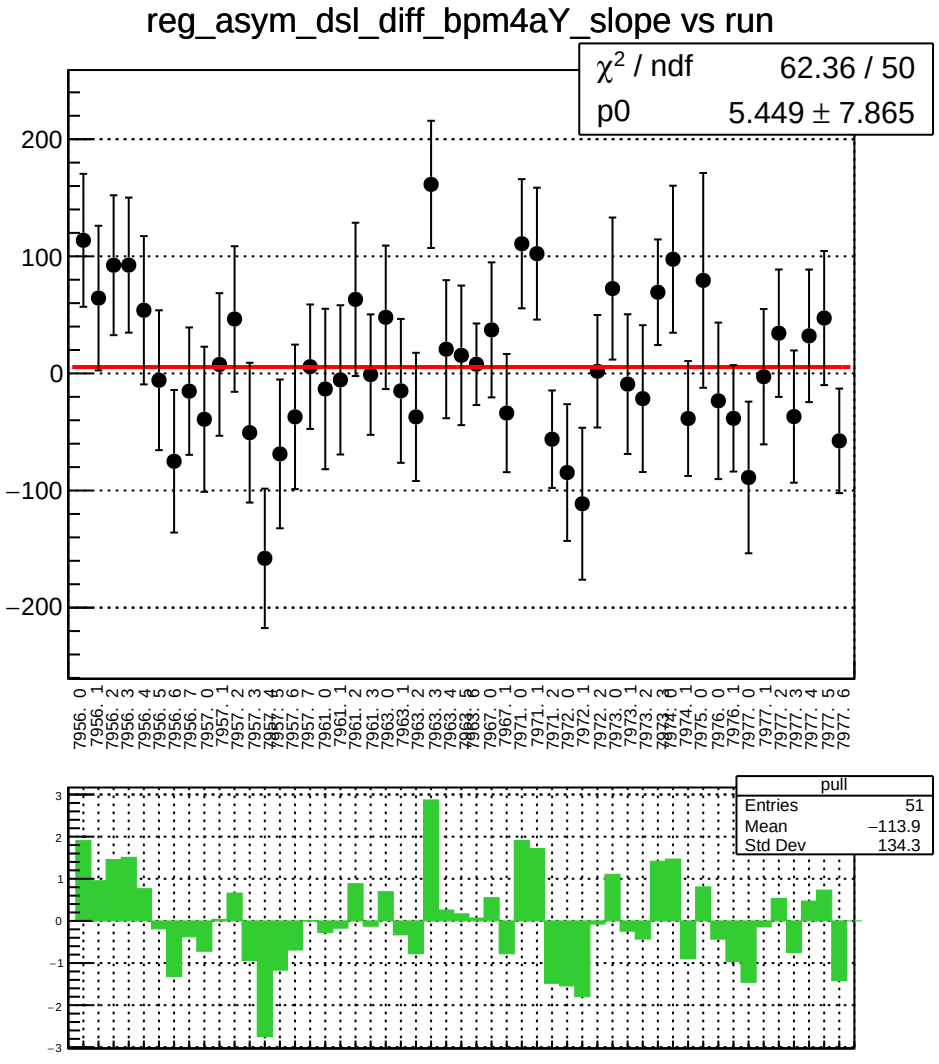

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 6.179 / 50
p0 −4.361 ± 6.866
pull
Entries 51
Mean 91.2
Std Dev 68.1
pull1D
Entries 51
Mean −0.004658
Std Dev 0.3481

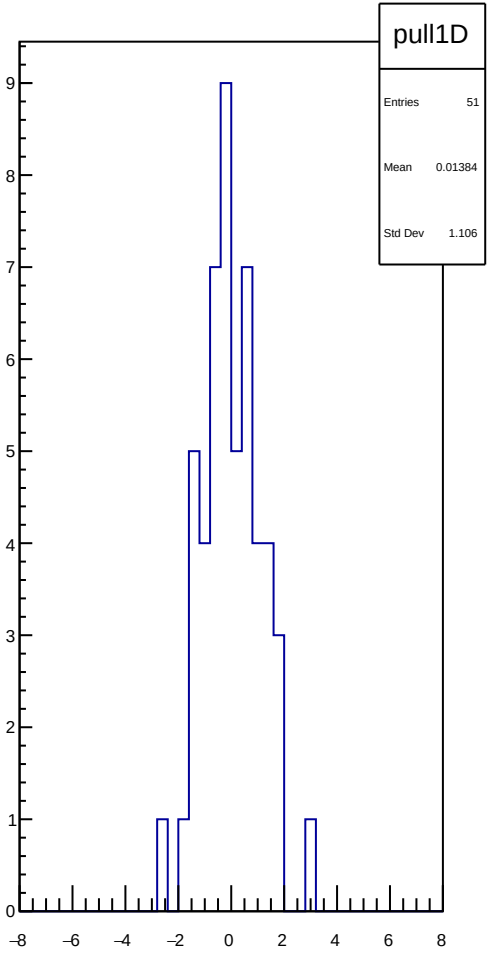

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 68.49 / 50
p0 −38.94 ± 0.1976
pull
Entries 51
Mean −340.8
Std Dev 365.3

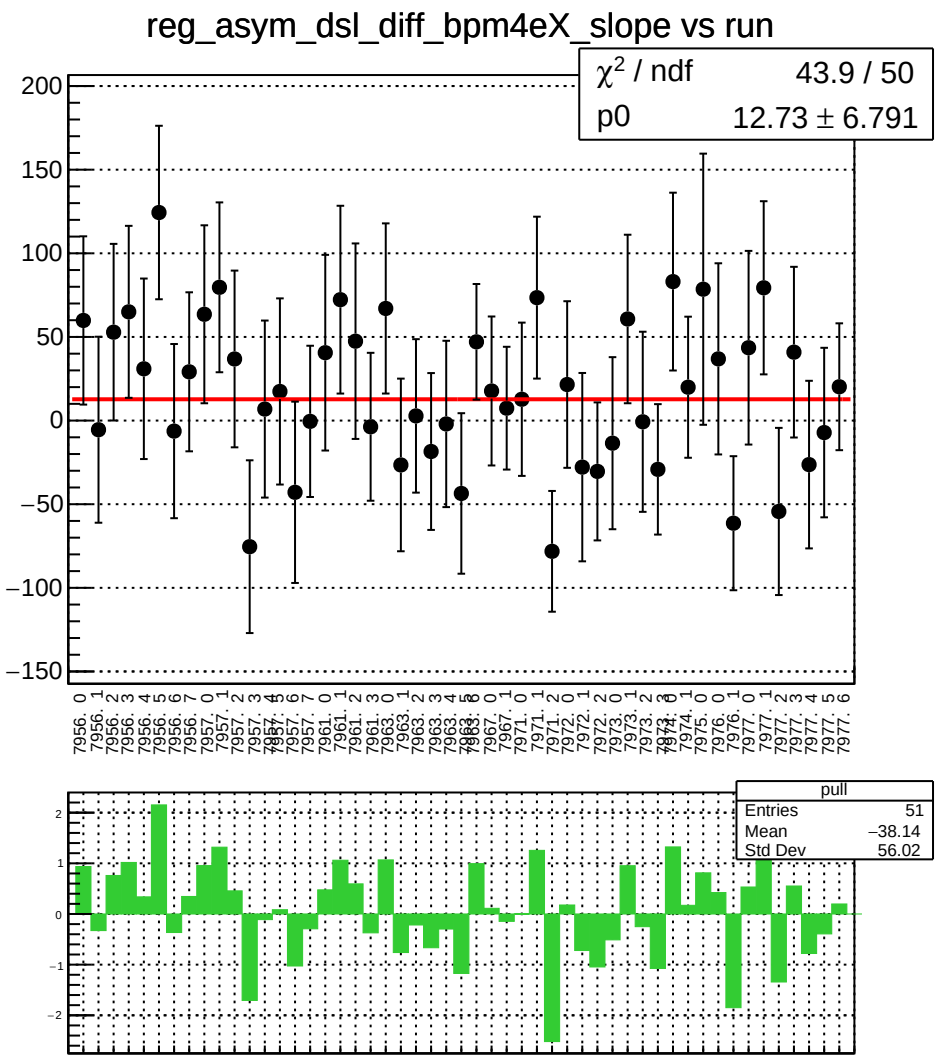

pull1D
Entries 51
Mean −0.0315
Std Dev 1.158

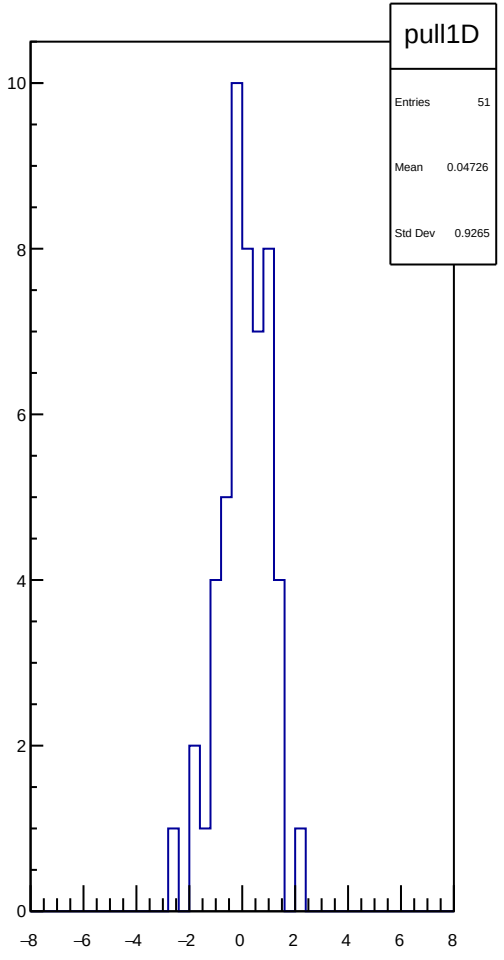

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 44.67 / 50
p0 −14.06 ± 7.611
pull
Entries 51
Mean −35.73
Std Dev 53.23

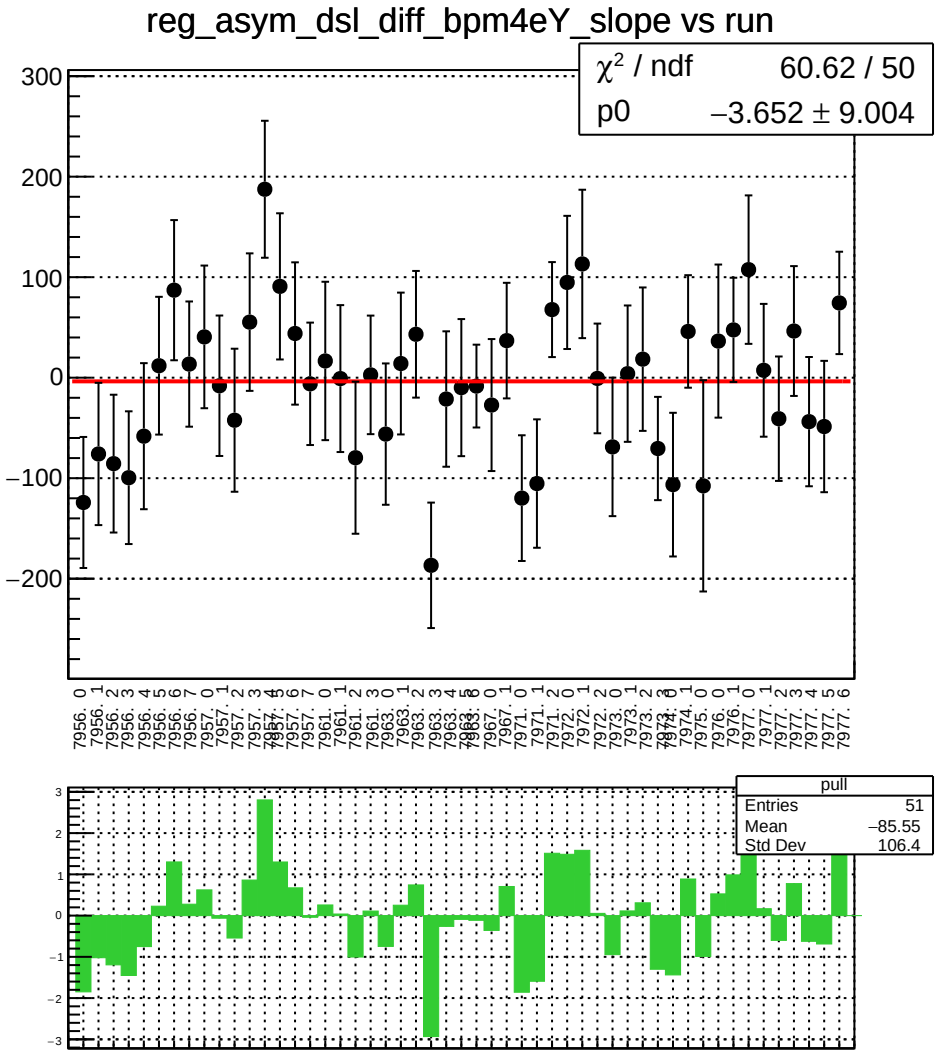

pull1D
Entries 51
Mean −0.05008
Std Dev 0.9346

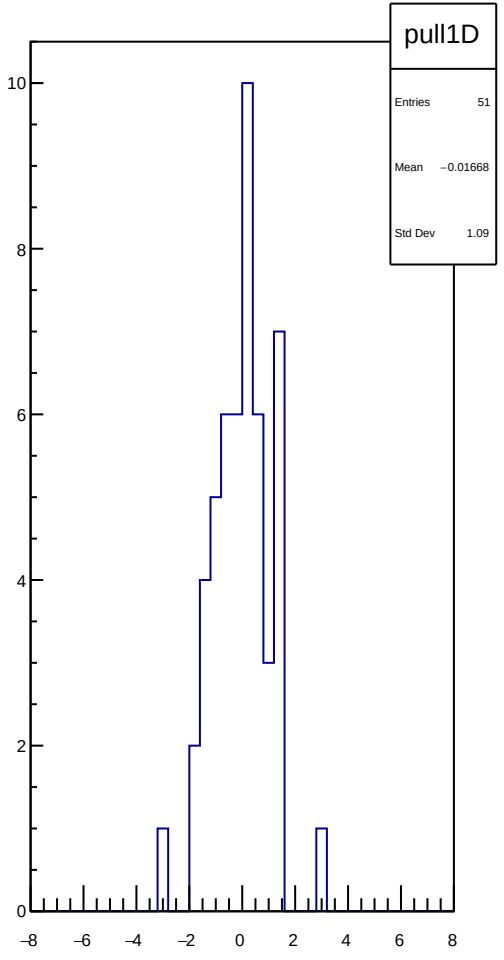

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 62.36 / 50
p0 5.449 ± 7.865
200
100
0
−100
−200
pull
Entries 51
Mean −113.9
Std Dev 134.3
3
2
1
0
−1
−2
−3

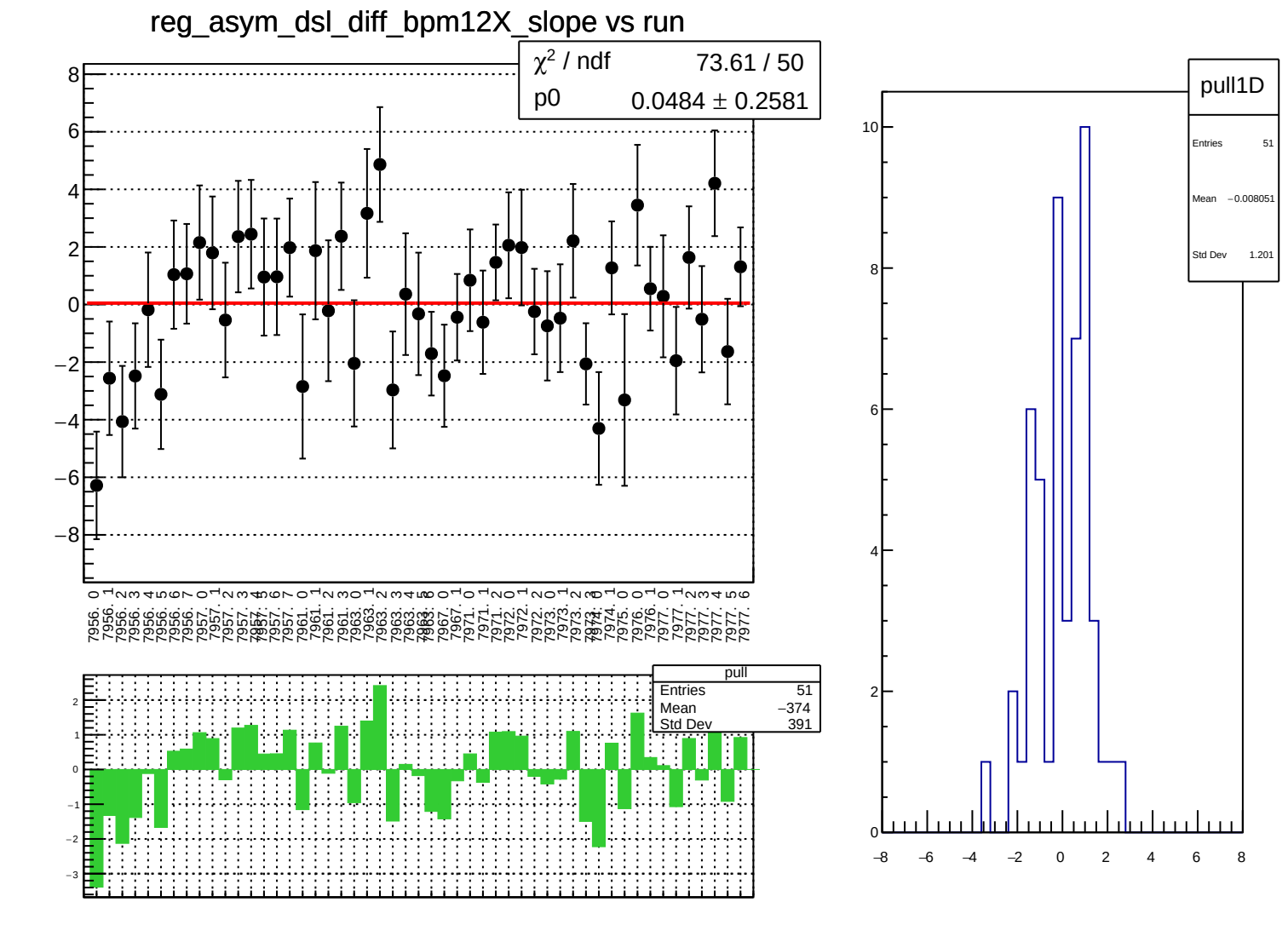

pull1D
Entries 51
Mean 0.01384
Std Dev 1.106
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

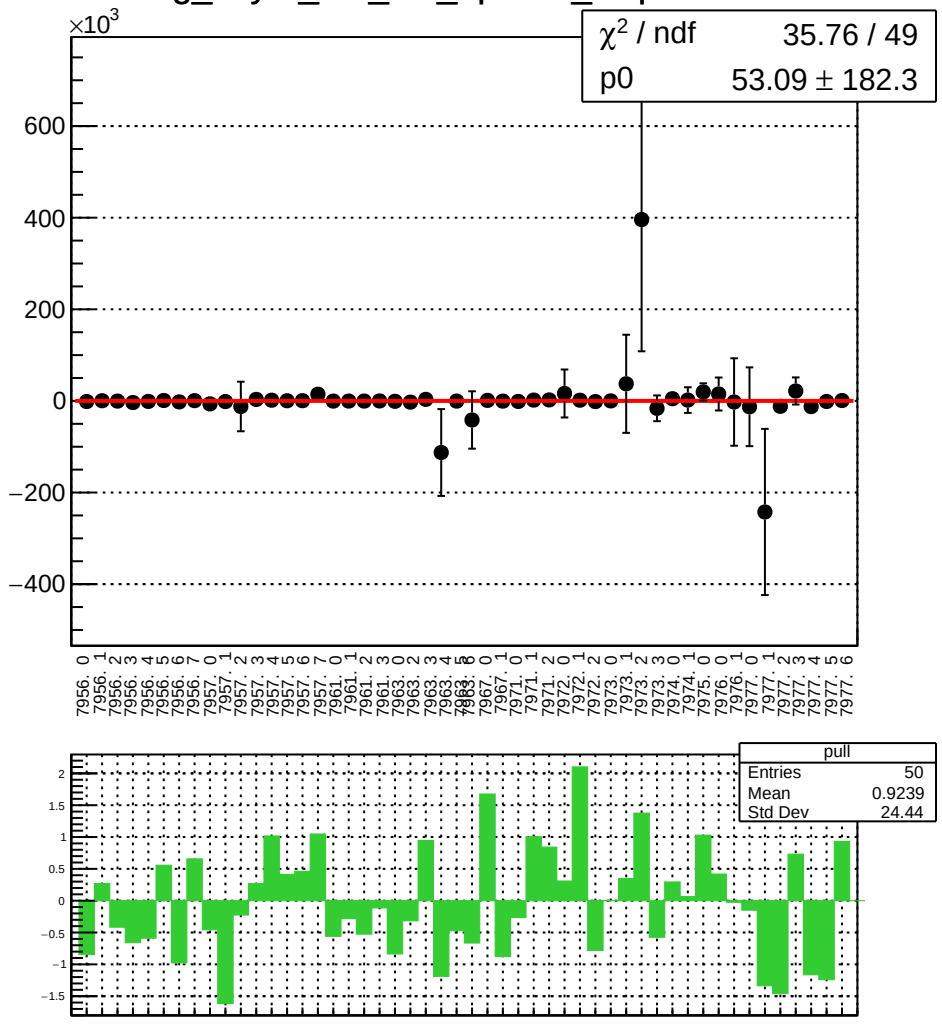

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 43.9 / 50
p0 12.73 ± 6.791
pull
Entries 51
Mean −38.14
Std Dev 56.02

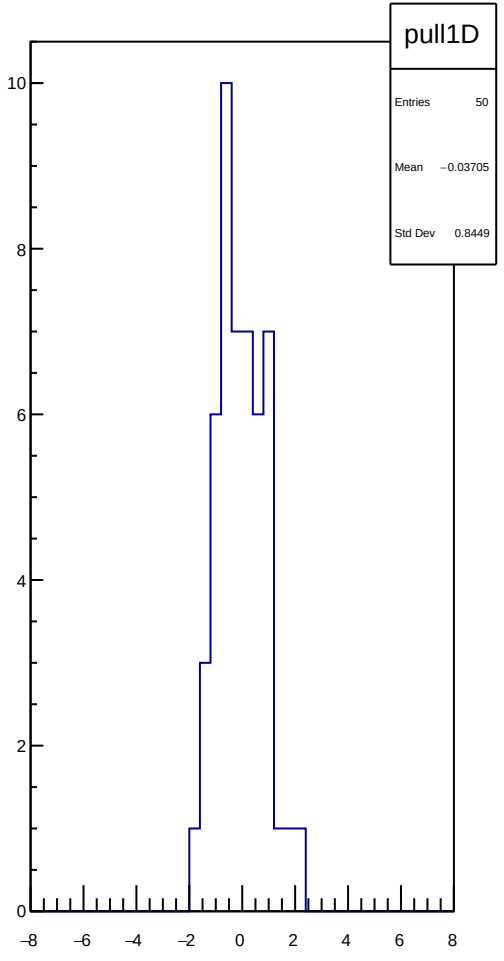

pull1D
Entries 51
Mean 0.04726
Std Dev 0.9265

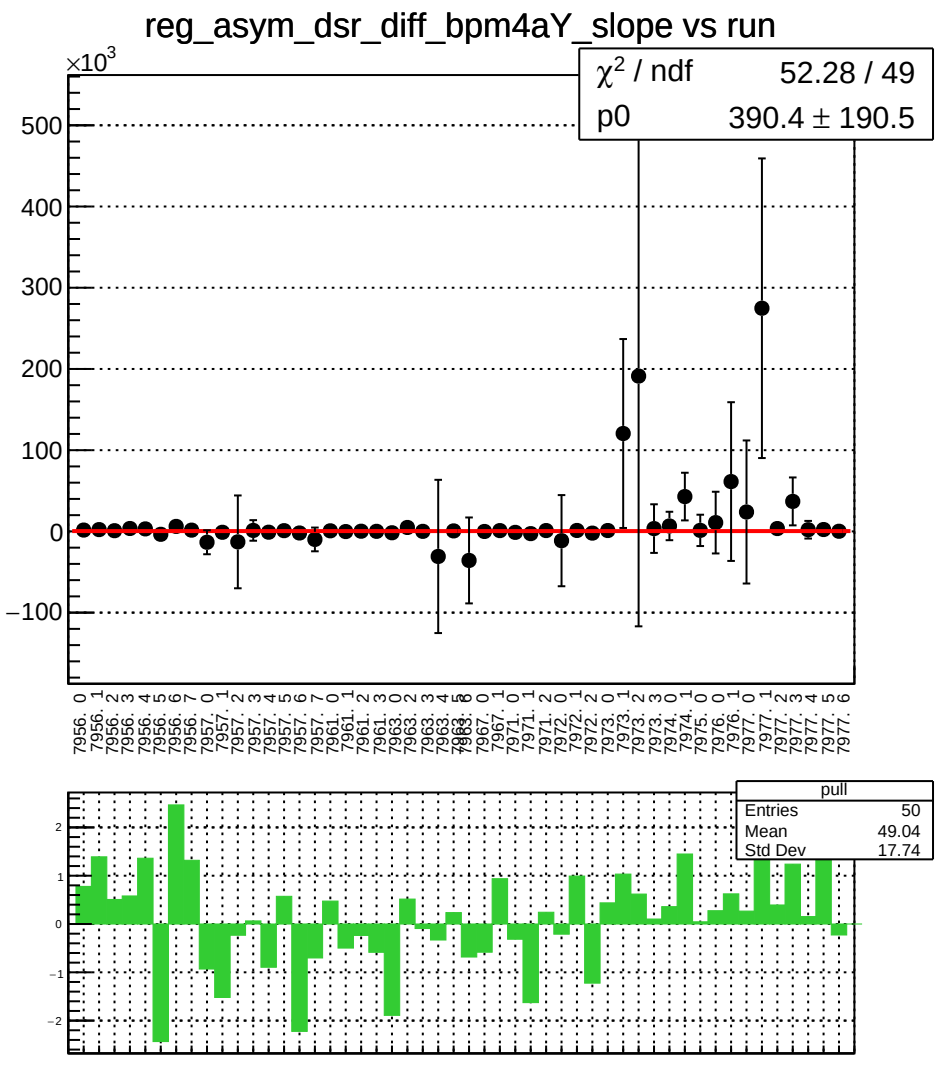

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 60.62 / 50
p0 −3.652 ± 9.004
pull
Entries 51
Mean −85.55
Std Dev 106.4

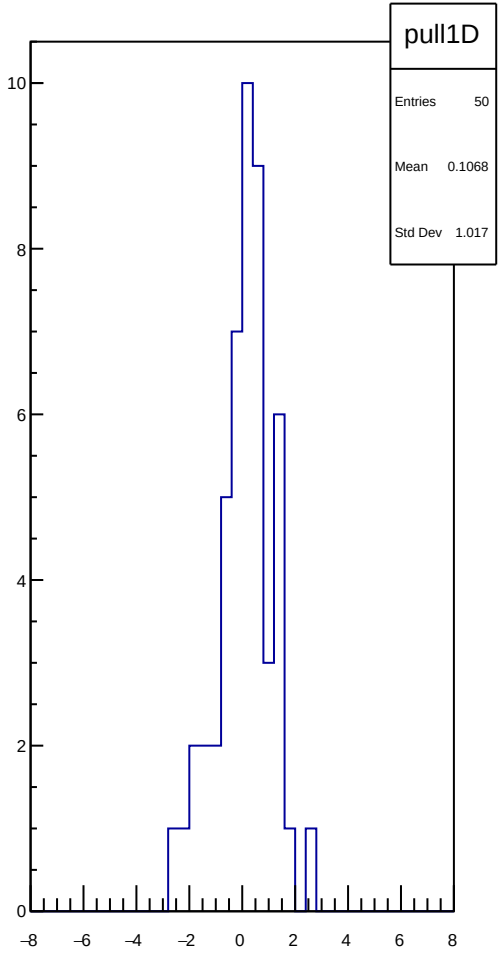

pull1D
Entries 51
Mean −0.01668
Std Dev 1.09

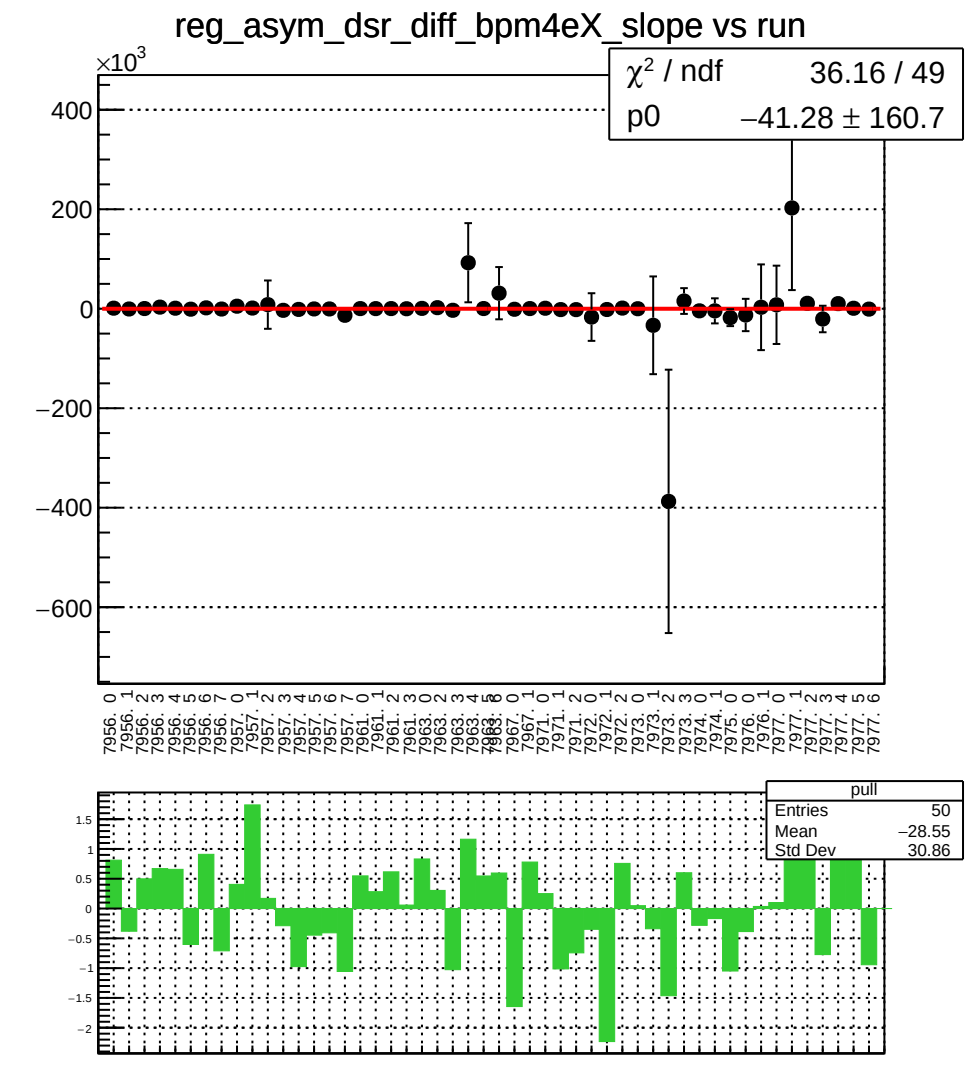

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 73.61 / 50
p0 0.0484 ± 0.2581
pull
Entries 51
Mean −374
Std Dev 391
pull1D
Entries 51
Mean −0.008051
Std Dev 1.201

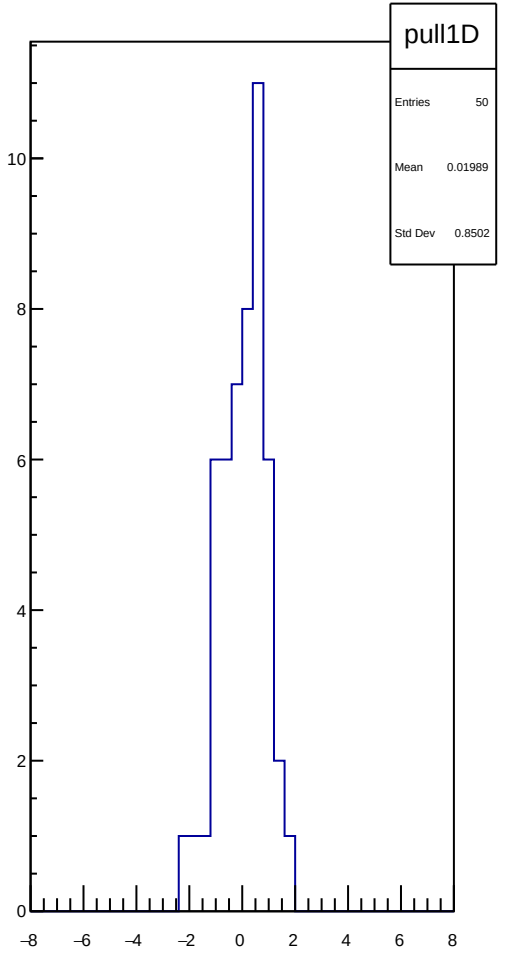

reg_asym_dsr_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.76 / 49
p0 53.09 ± 182.3
600
400
200
0
−200
−400
pull
Entries 50
Mean 0.9239
Std Dev 24.44
2
1.5
1
0.5
0
−0.5
−1
−1.5

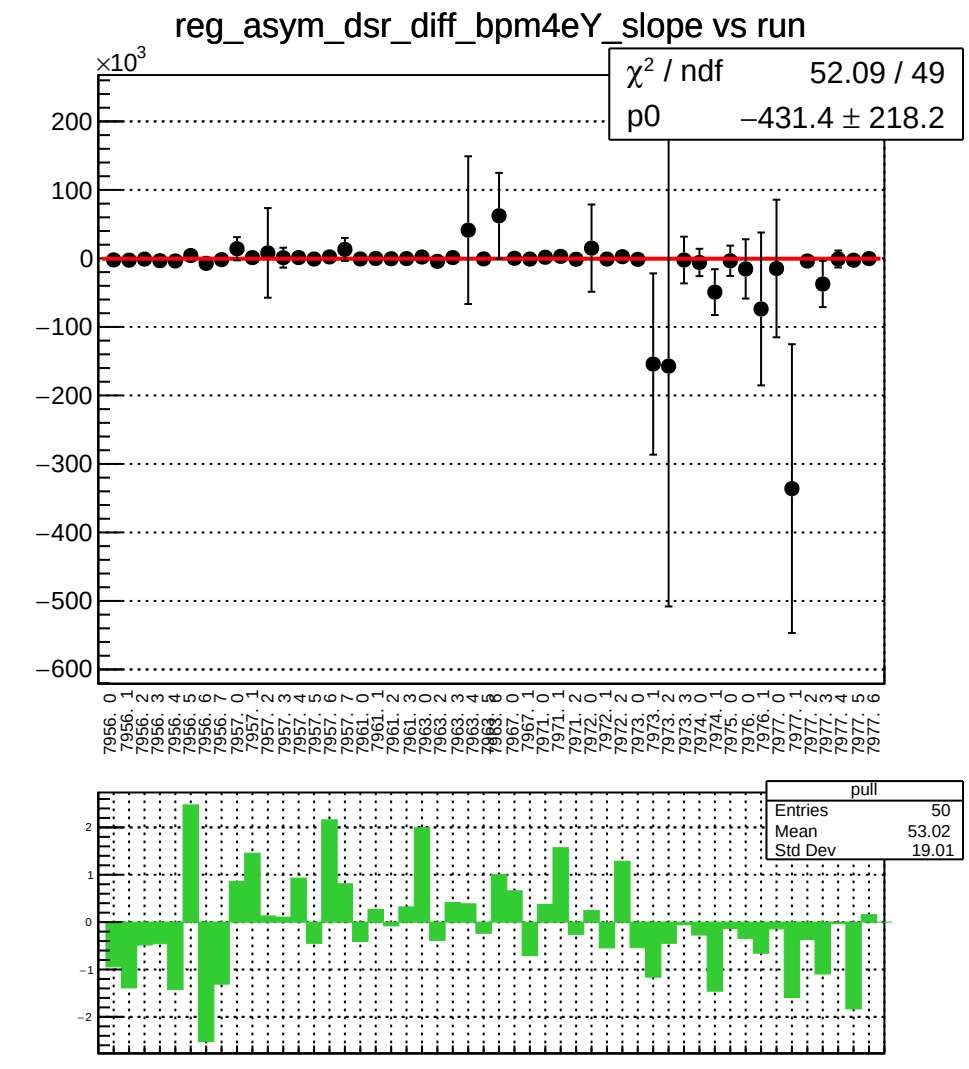

pull1D
Entries 50
Mean −0.03705
Std Dev 0.8449
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

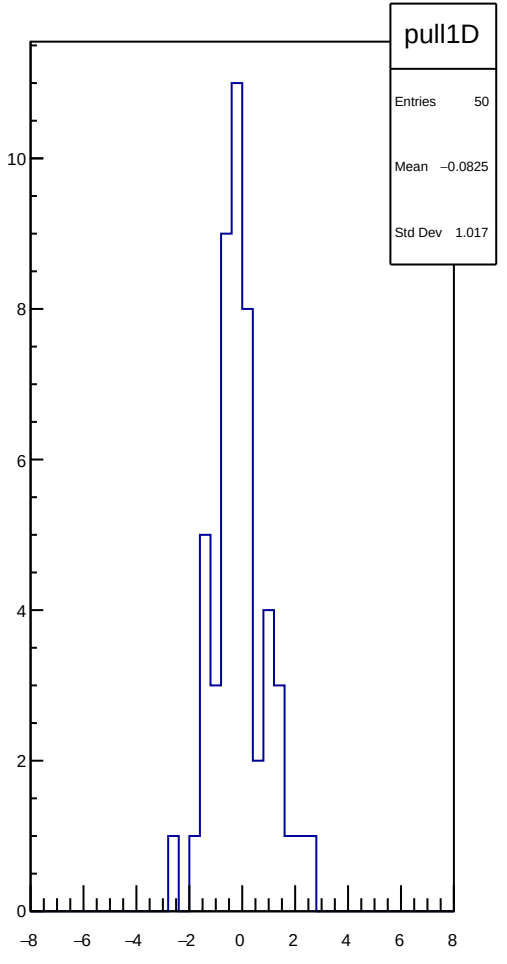

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 52.28 / 49
p0 390.4 ± 190.5
×10³
pull
Entries 50
Mean 49.04
Std Dev 17.74

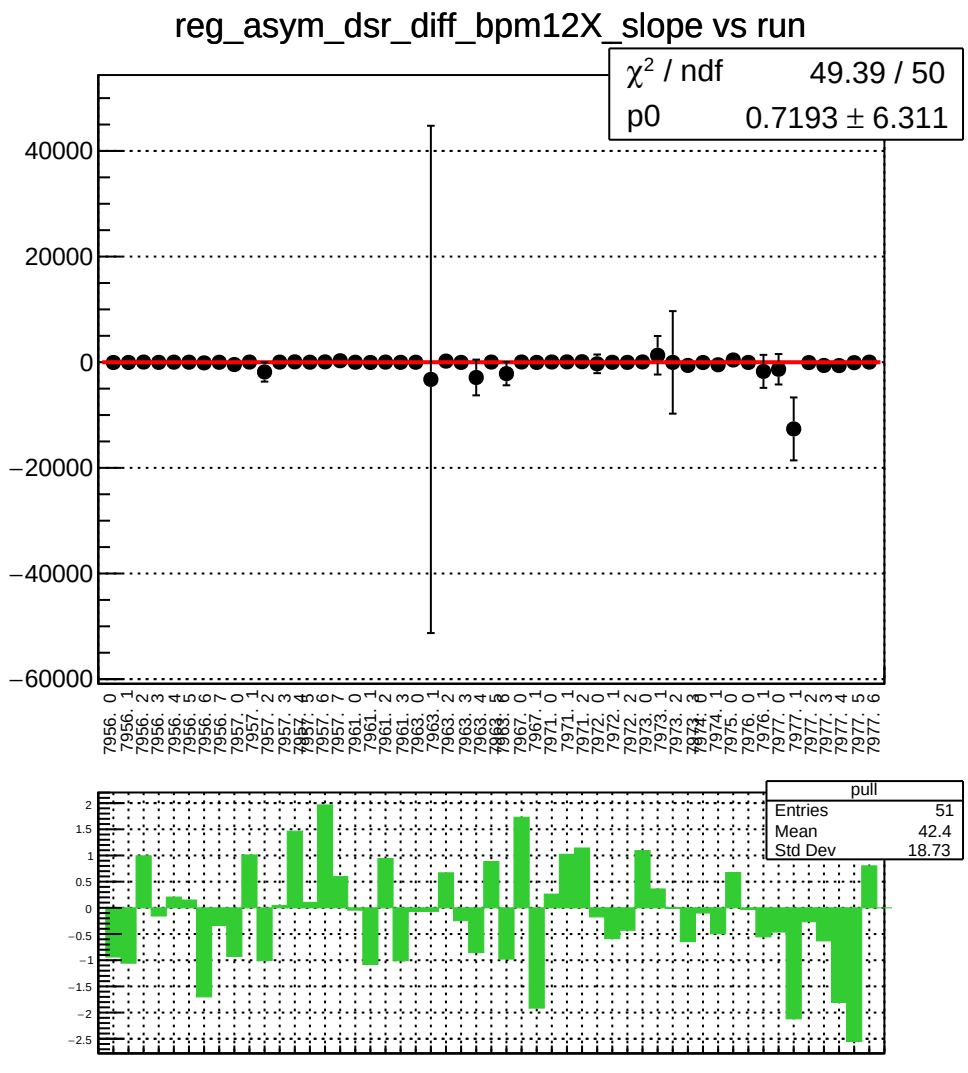

pull1D
Entries 50
Mean 0.1068
Std Dev 1.017

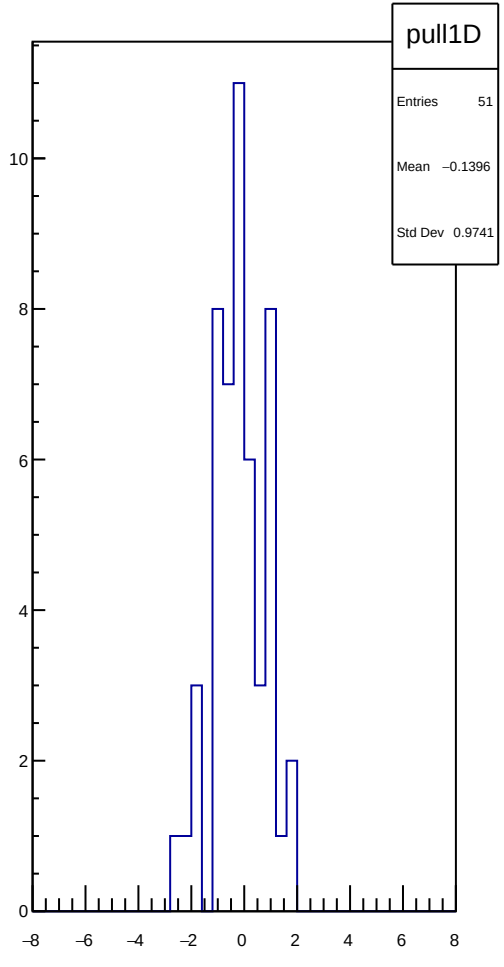

reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 36.16 / 49
p0 −41.28 ± 160.7
400
200
0
−200
−400
−600
pull
Entries 50
Mean −28.55
Std Dev 30.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

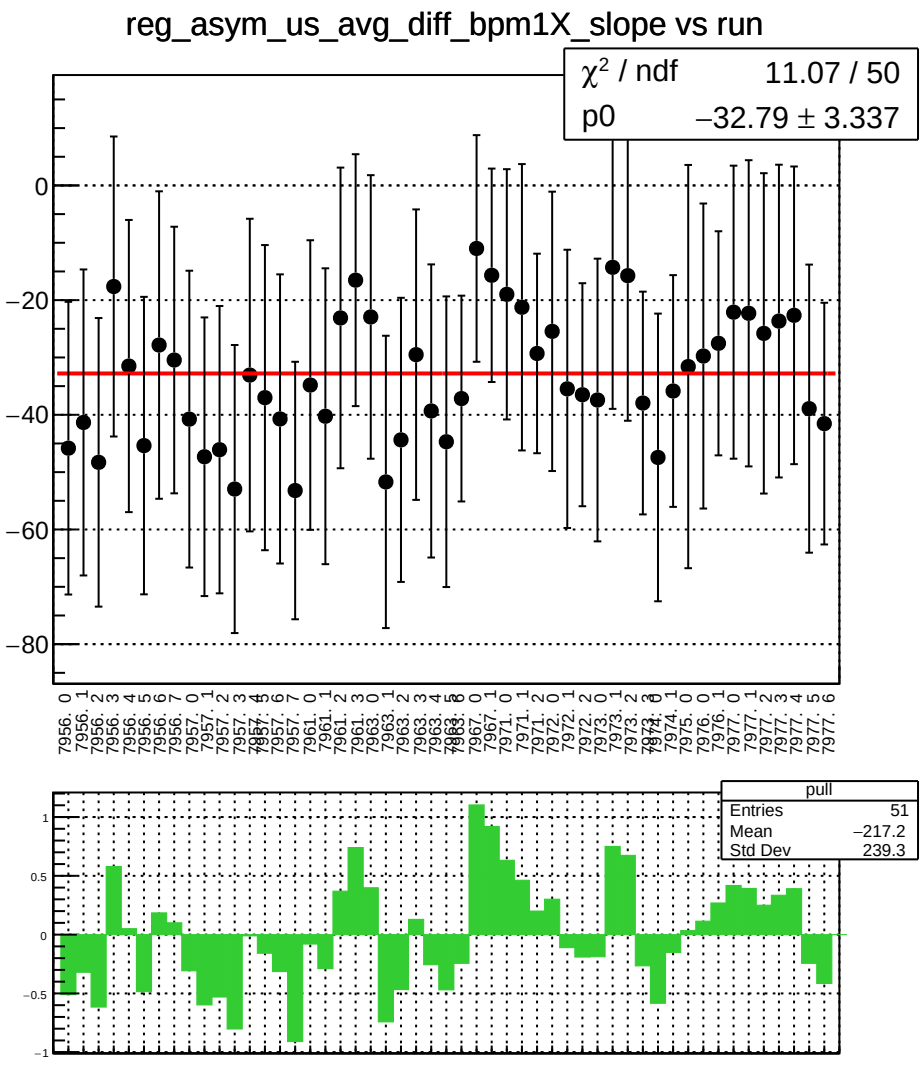

pull1D
Entries 50
Mean 0.01989
Std Dev 0.8502
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

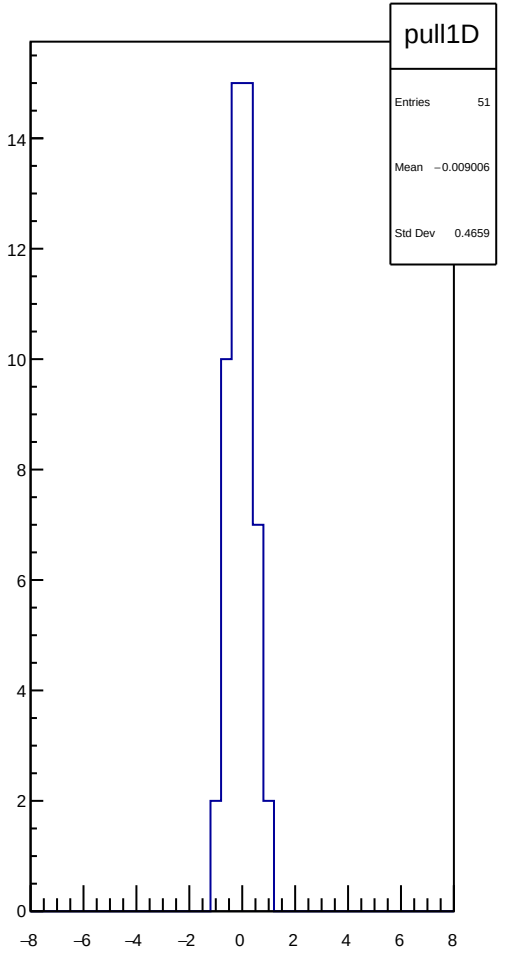

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 52.09 / 49
p0 −431.4 ± 218.2
×10³
pull
Entries 50
Mean 53.02
Std Dev 19.01

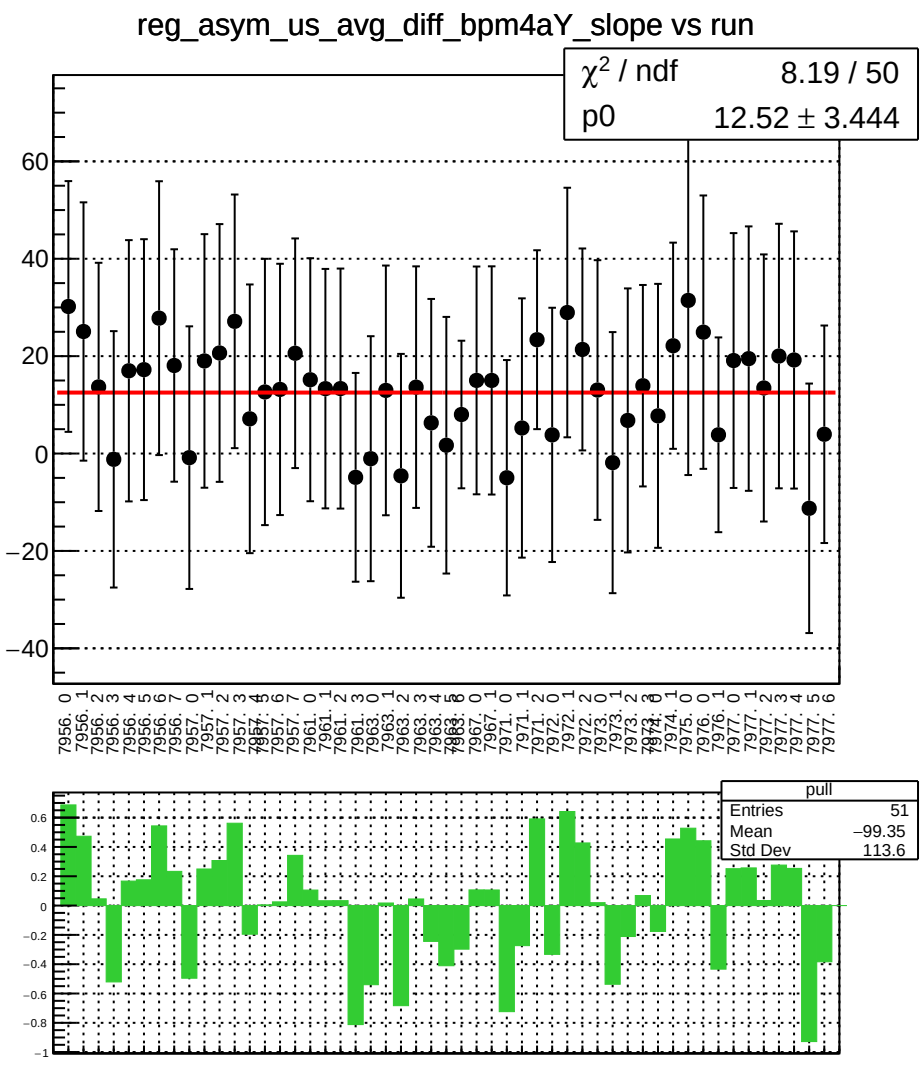

pull1D
Entries 50
Mean −0.0825
Std Dev 1.017

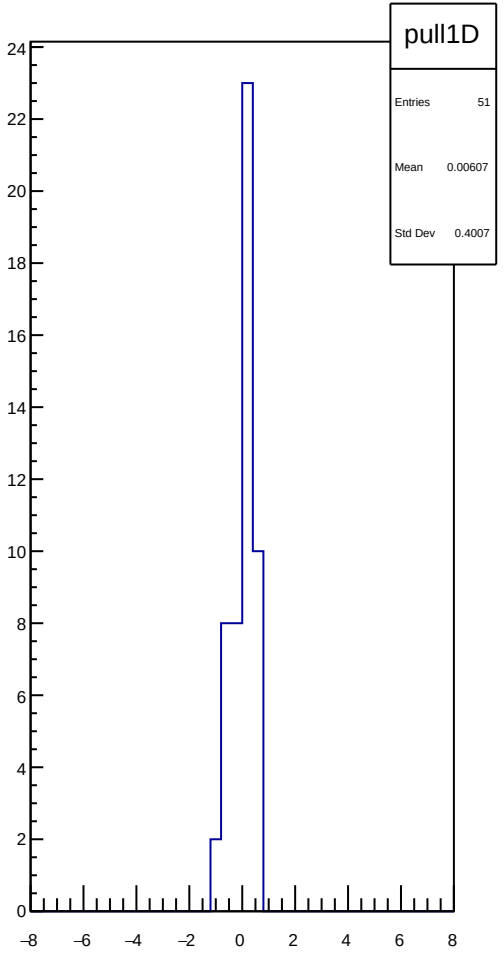

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 49.39 / 50
p0 0.7193 ± 6.311
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean 42.4
Std Dev 18.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

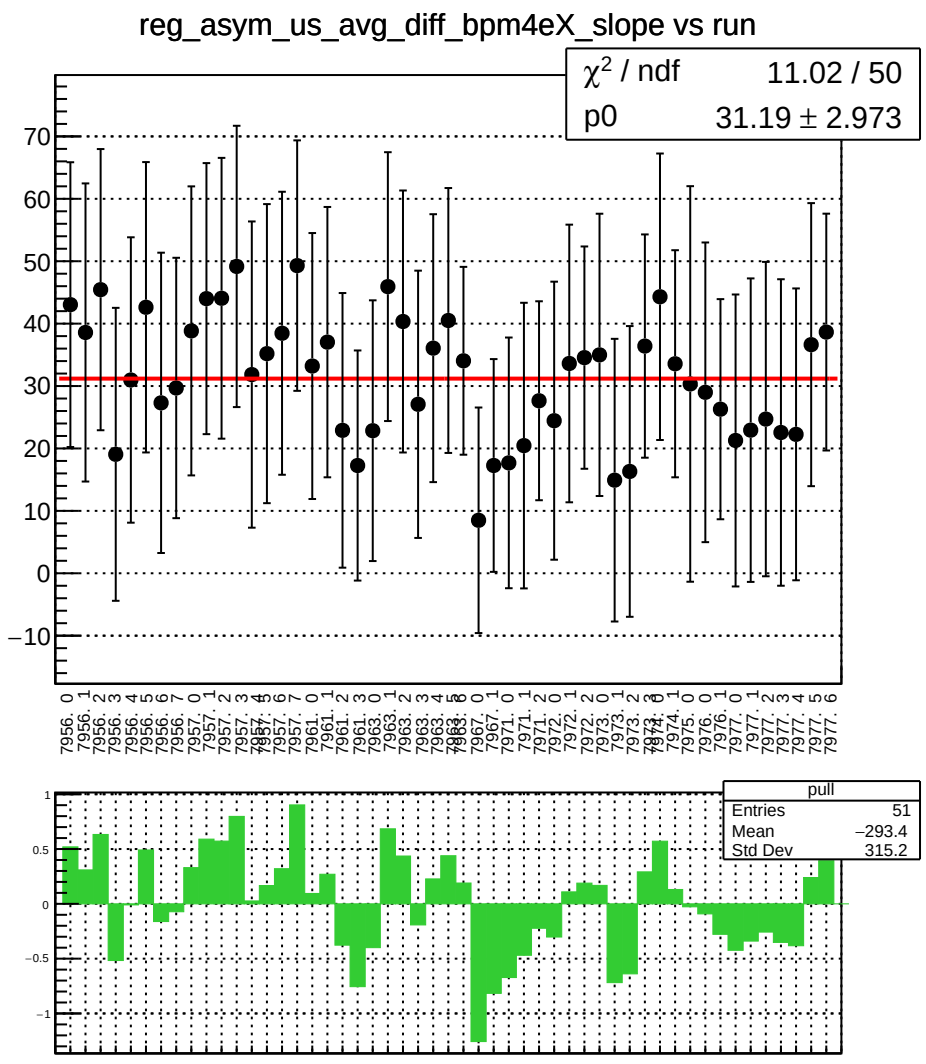

pull1D
Entries 51
Mean −0.1396
Std Dev 0.9741
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

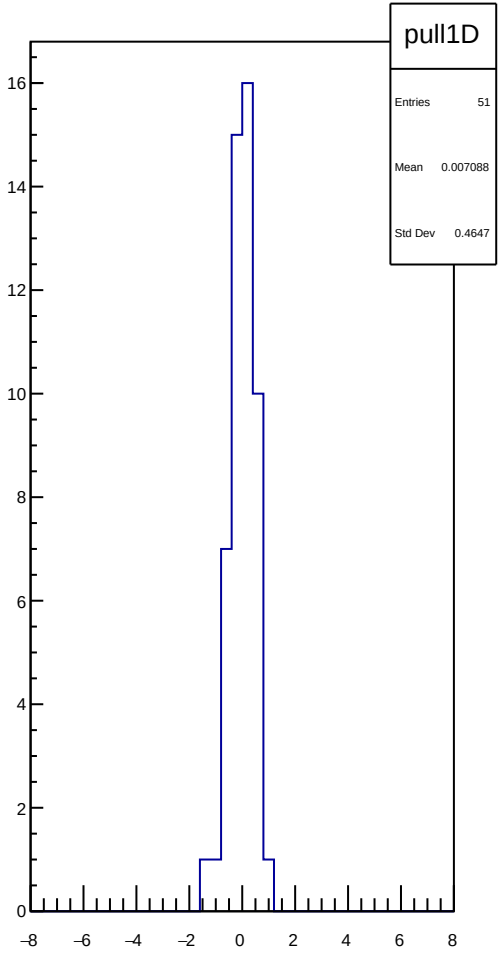

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 11.07 / 50
p0 −32.79 ± 3.337
pull
Entries 51
Mean −217.2
Std Dev 239.3

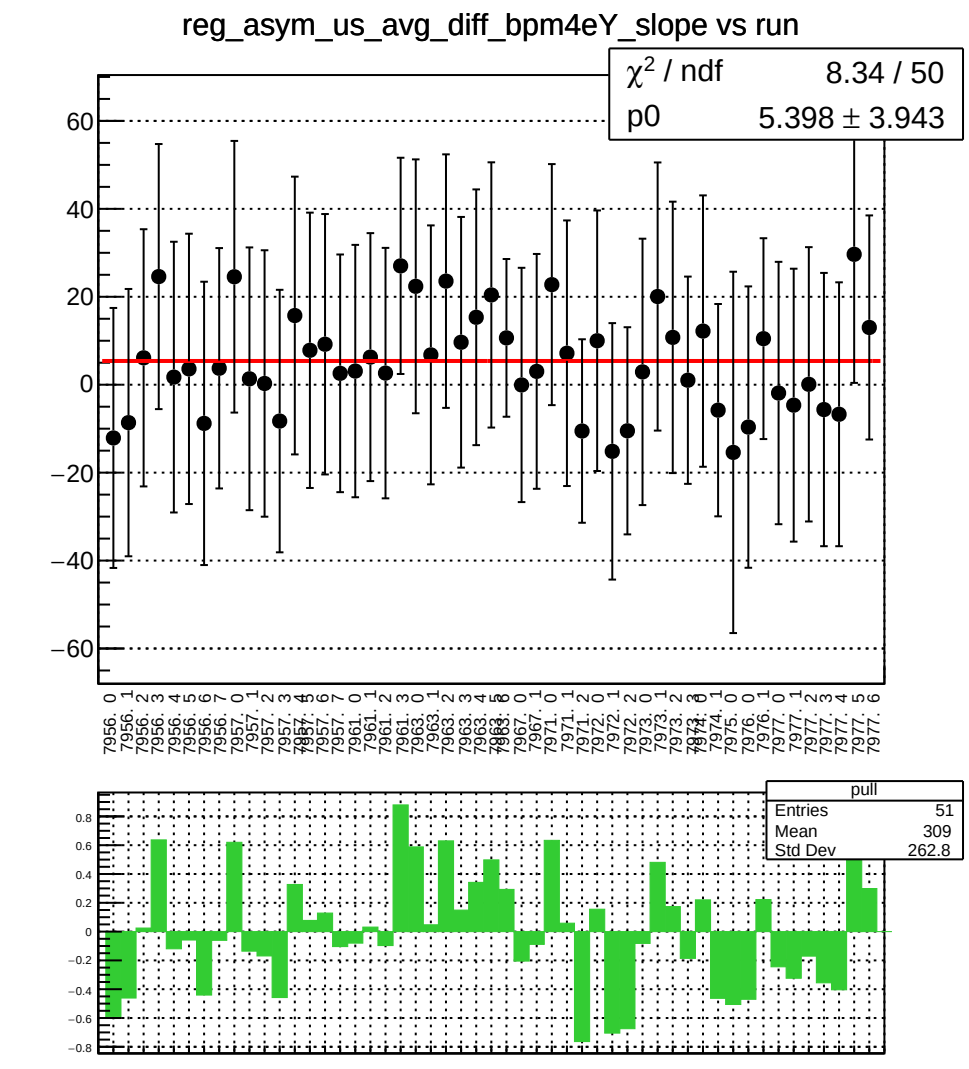

pull1D
Entries 51
Mean −0.009006
Std Dev 0.4659

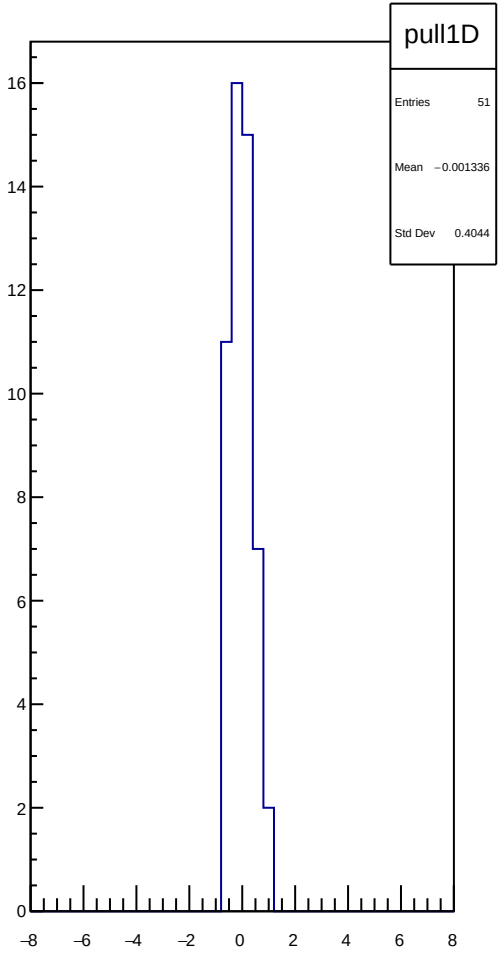

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.19 / 50
p0 12.52 ± 3.444
pull
Entries 51
Mean −99.35
Std Dev 113.6

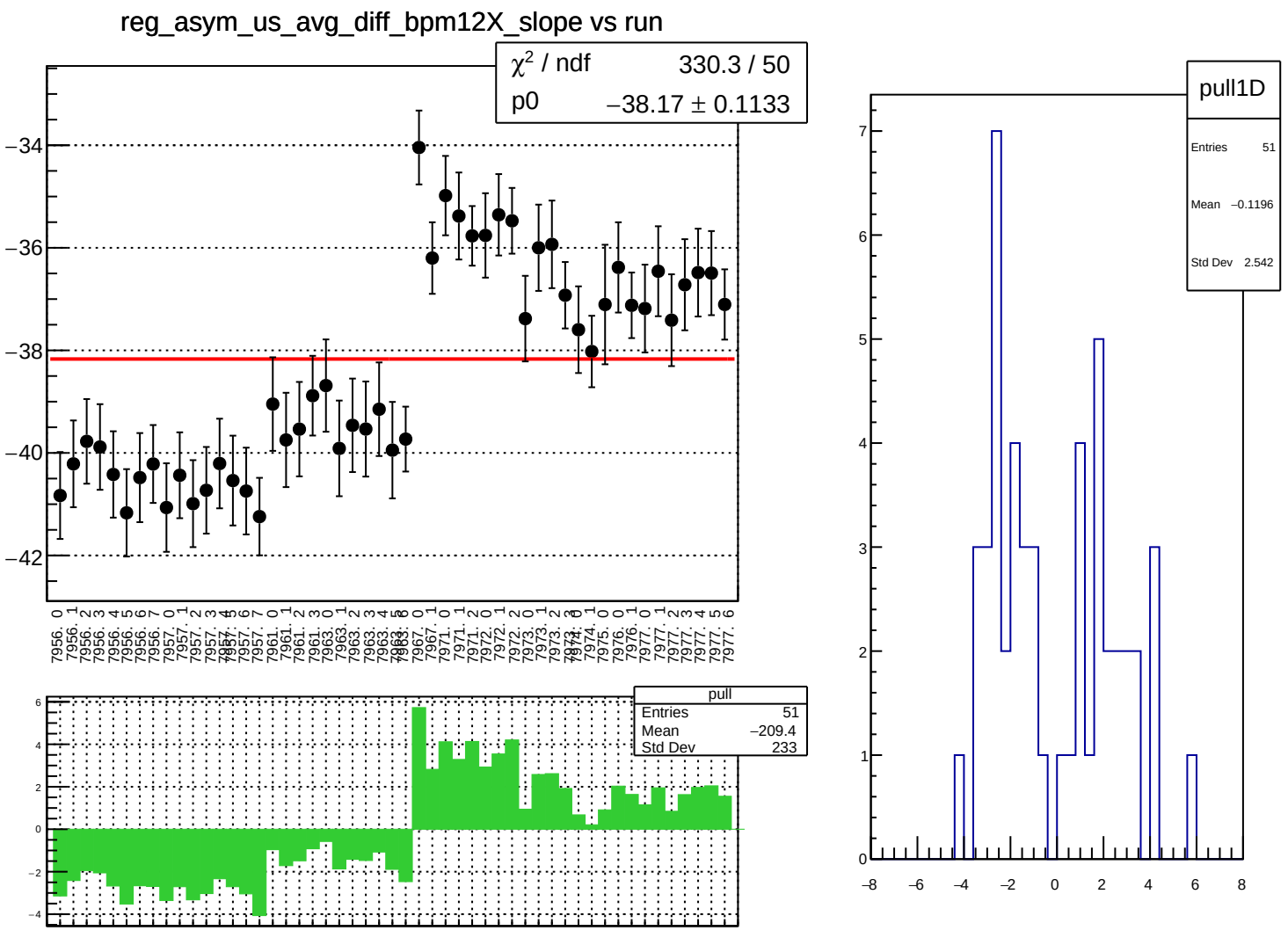

pull1D
Entries 51
Mean 0.00607
Std Dev 0.4007

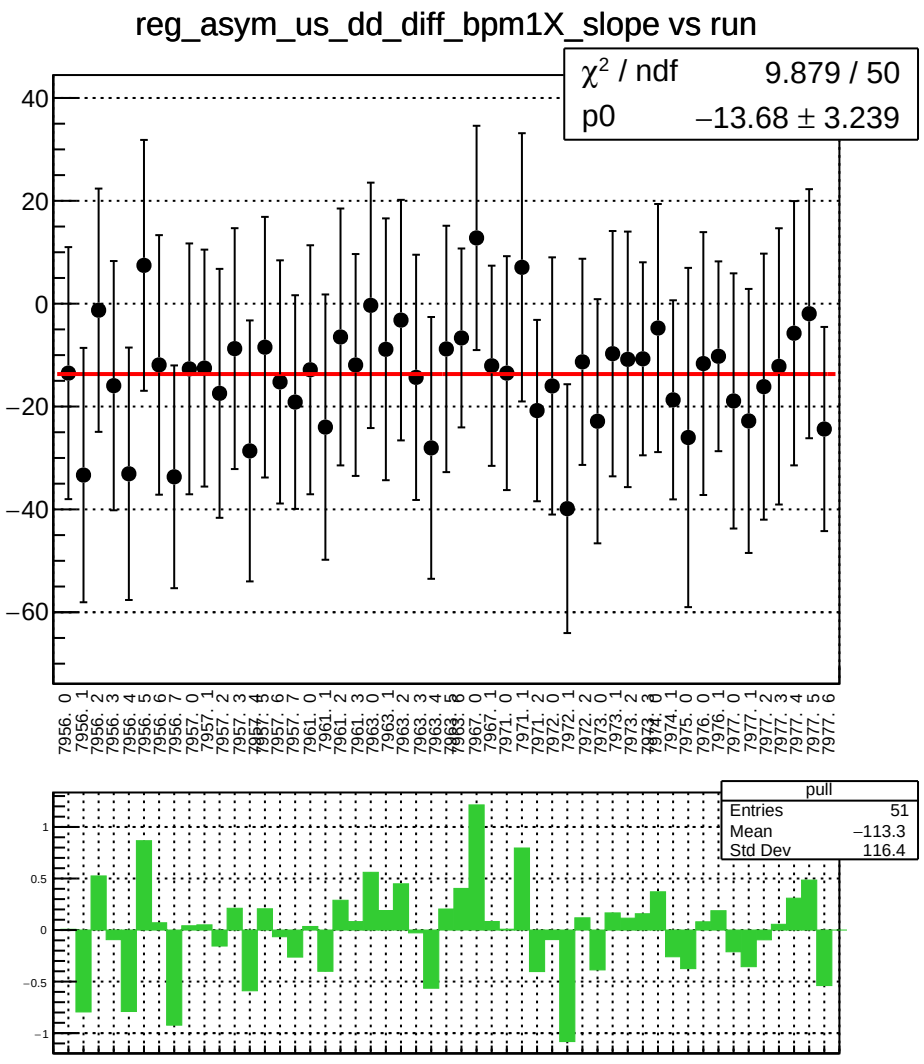

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.02 / 50
p0 31.19 ± 2.973
pull
Entries 51
Mean −293.4
Std Dev 315.2

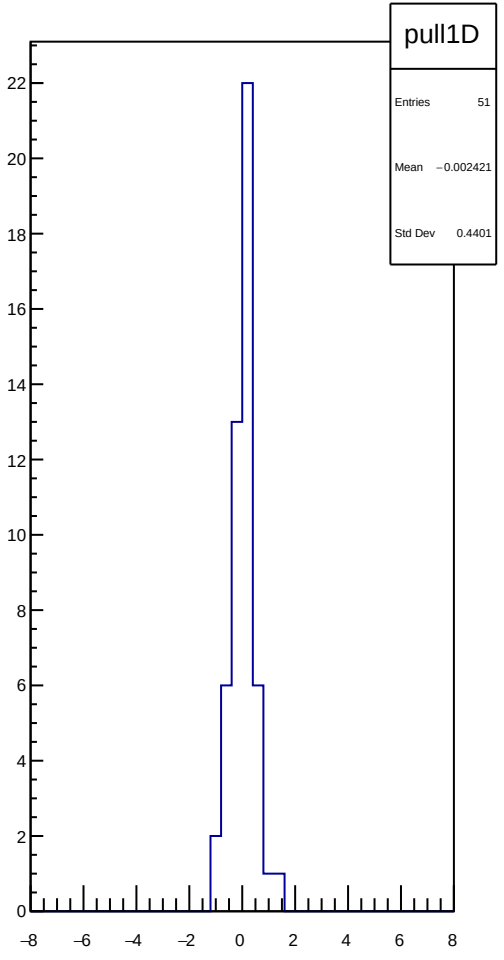

pull1D
Entries 51
Mean 0.007088
Std Dev 0.4647

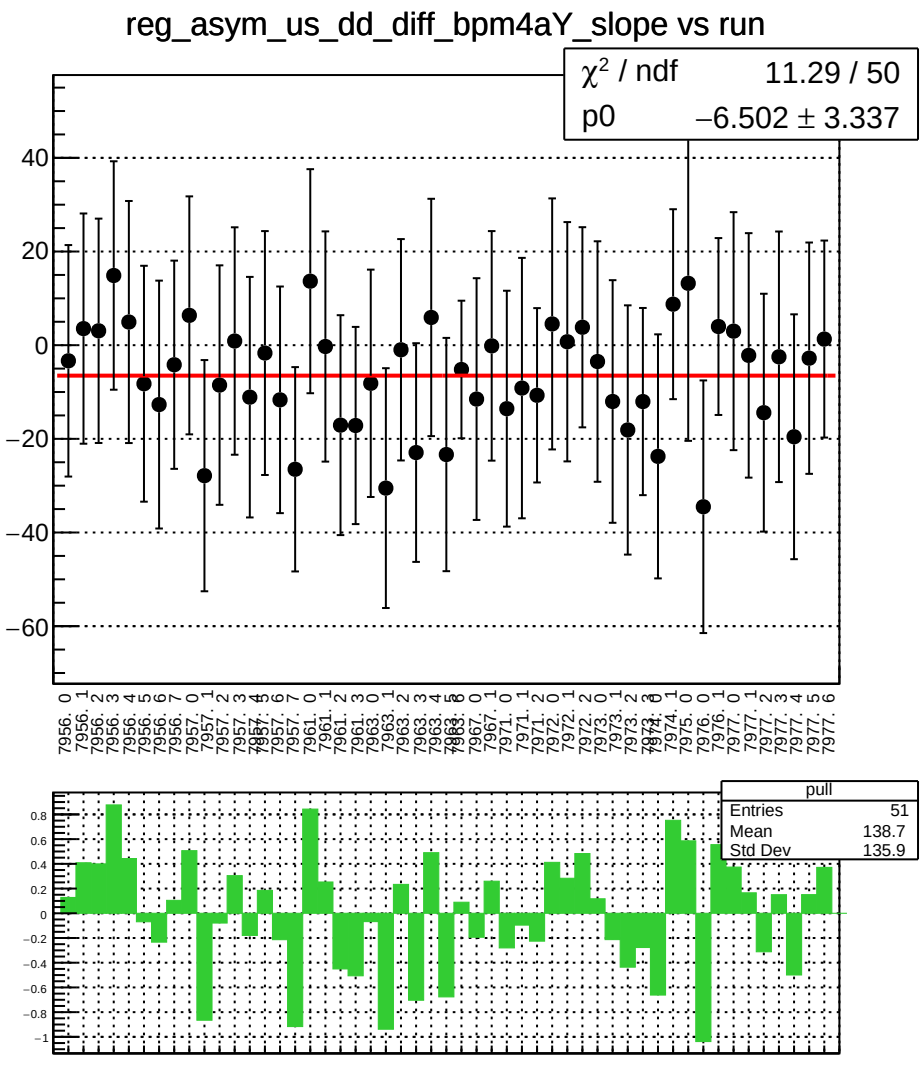

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.34 / 50
p0 5.398 ± 3.943
pull
Entries 51
Mean 309
Std Dev 262.8

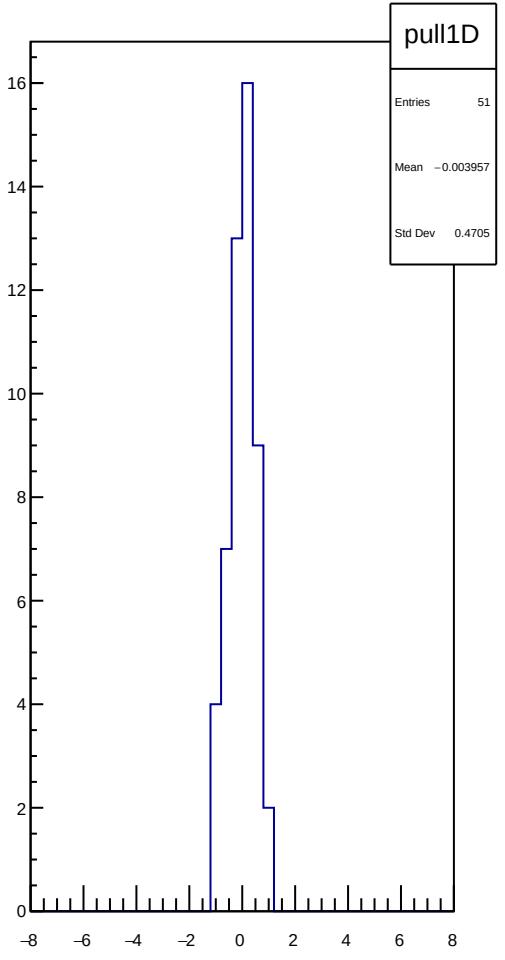

pull1D
Entries 51
Mean −0.001336
Std Dev 0.4044

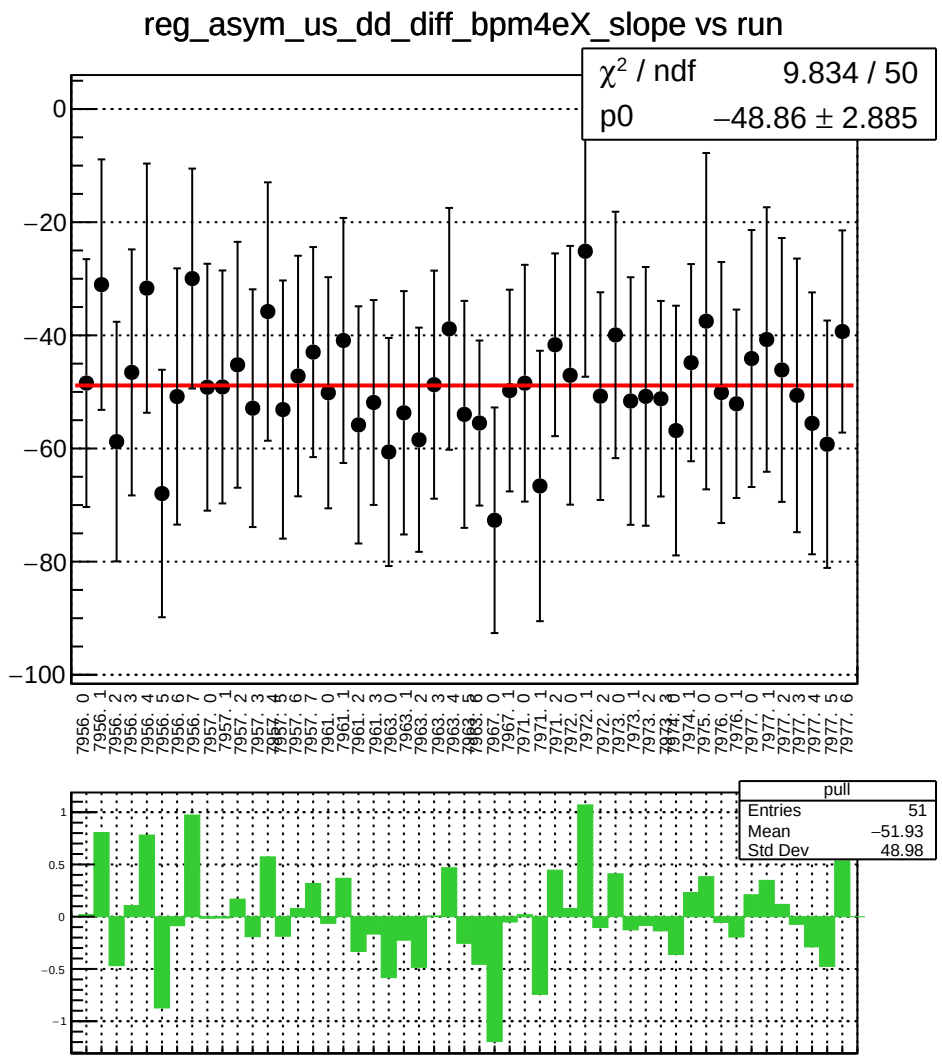

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 330.3 / 50
p0 −38.17 ± 0.1133
pull
Entries 51
Mean −209.4
Std Dev 233
pull1D
Entries 51
Mean −0.1196
Std Dev 2.542

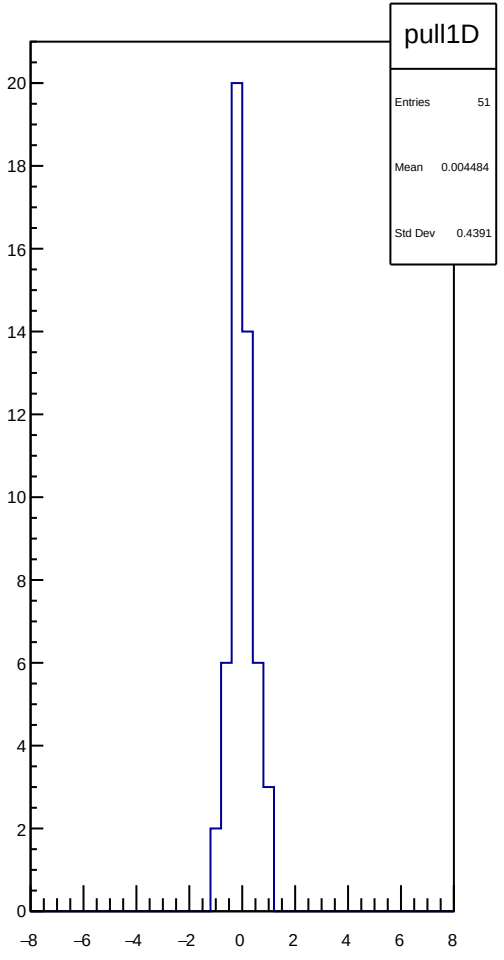

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 9.879 / 50
p0 −13.68 ± 3.239
pull
Entries 51
Mean −113.3
Std Dev 116.4

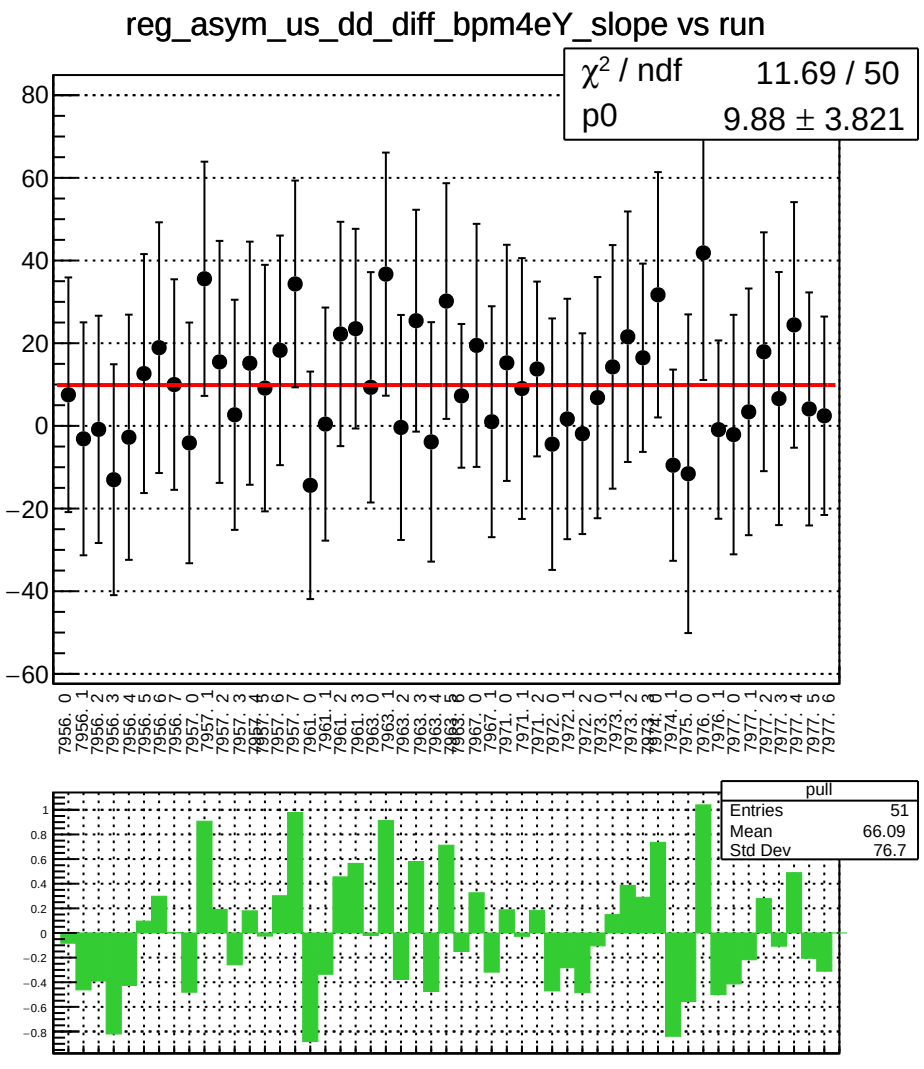

pull1D
Entries 51
Mean −0.002421
Std Dev 0.4401

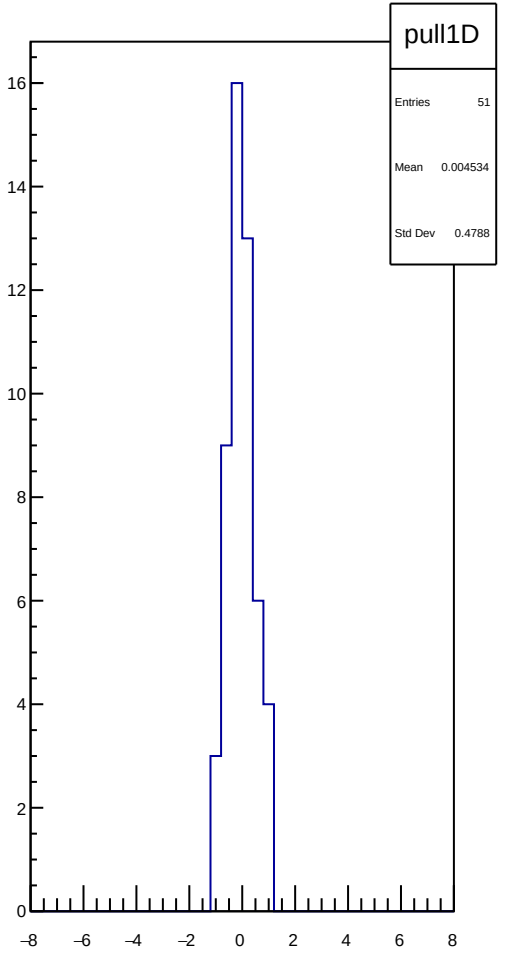

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.29 / 50
p0 −6.502 ± 3.337
pull
Entries 51
Mean 138.7
Std Dev 135.9

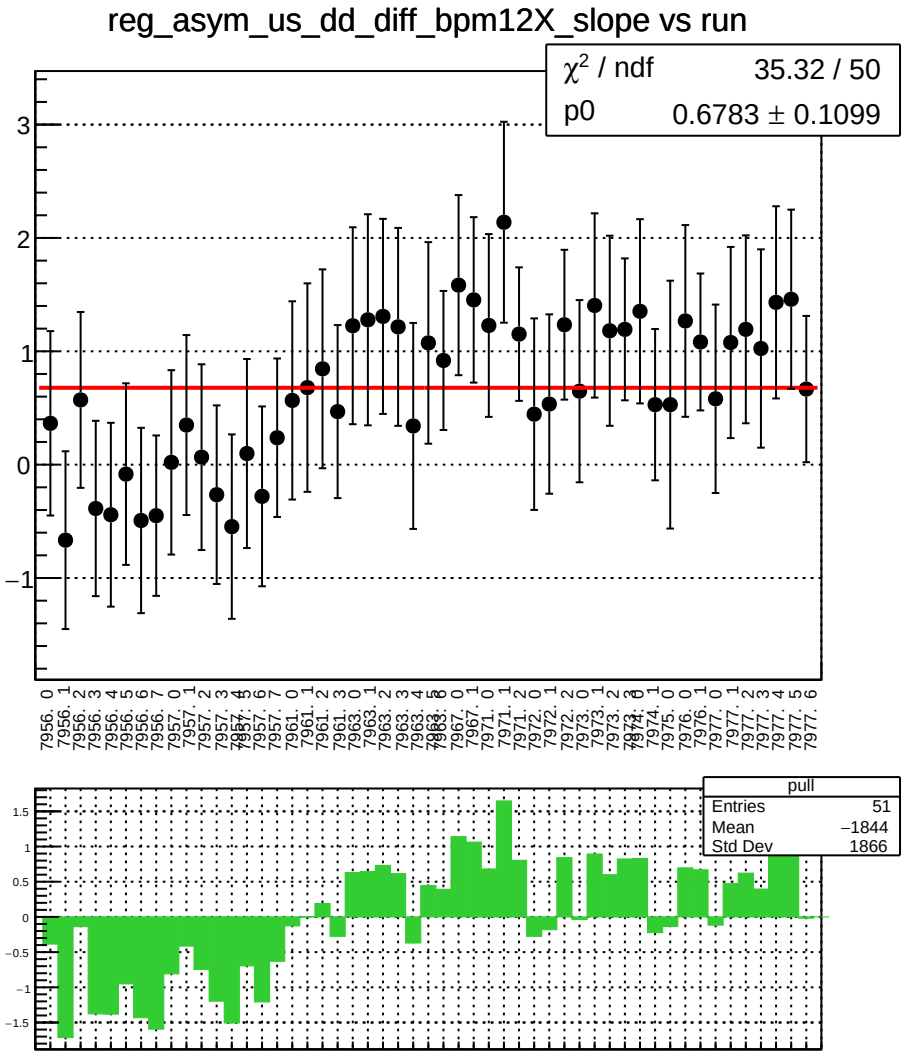

pull1D
Entries 51
Mean −0.003957
Std Dev 0.4705

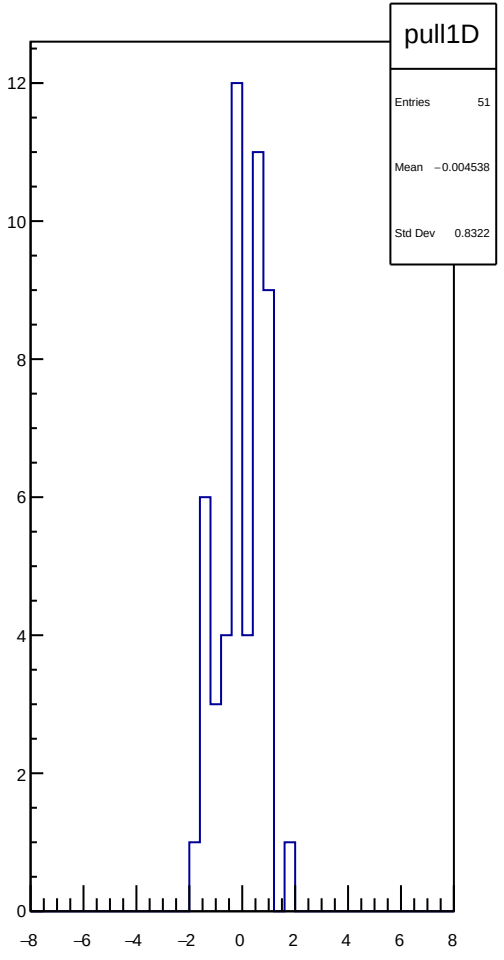

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.834 / 50
p0 −48.86 ± 2.885
pull
Entries 51
Mean −51.93
Std Dev 48.98

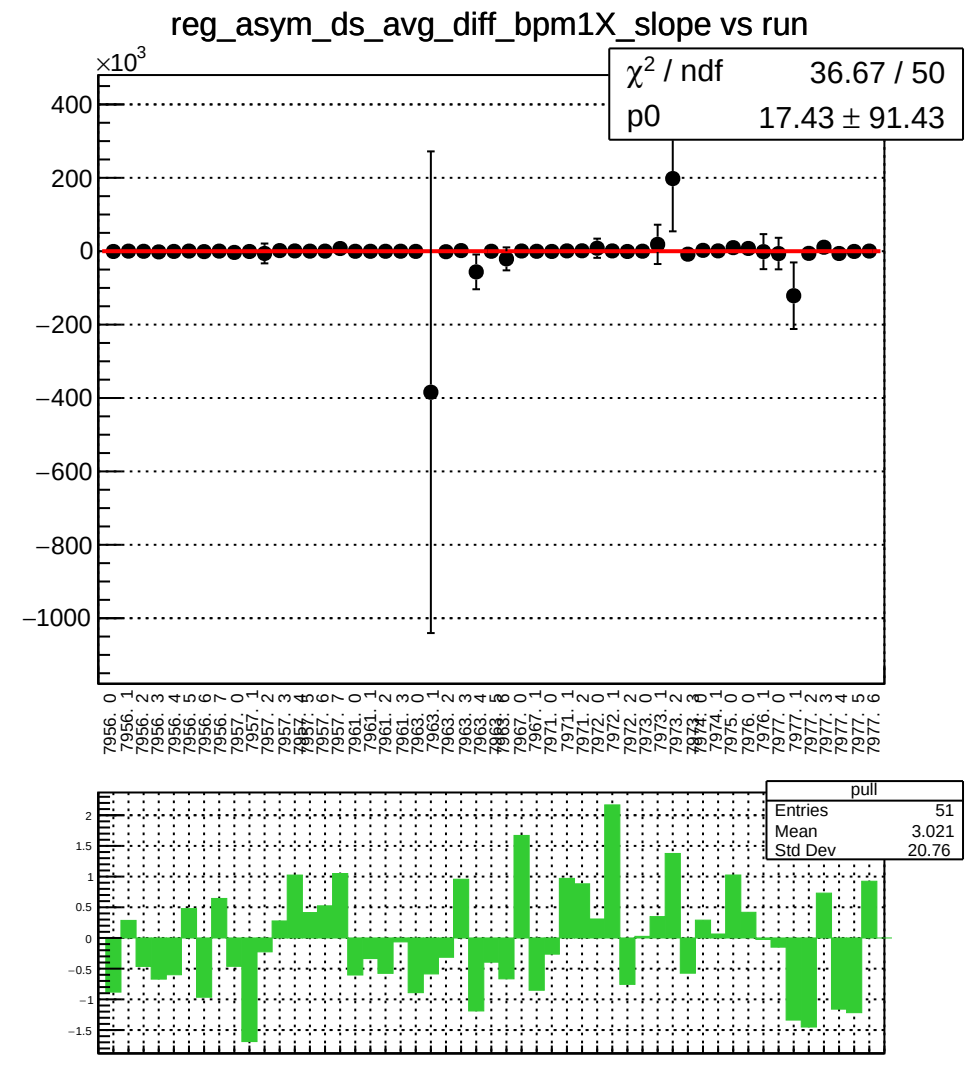

pull1D
Entries 51
Mean 0.004484
Std Dev 0.4391

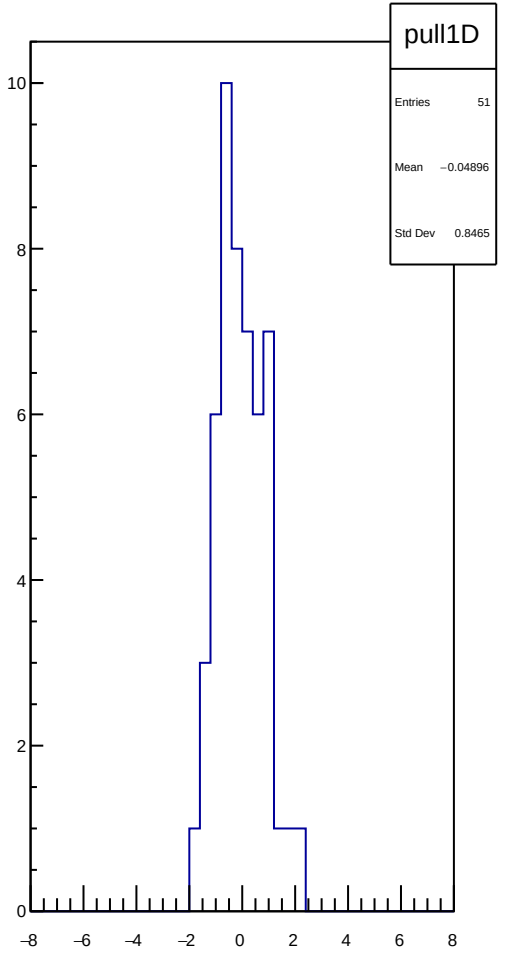

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.69 / 50
p0 9.88 ± 3.821
pull
Entries 51
Mean 66.09
Std Dev 76.7

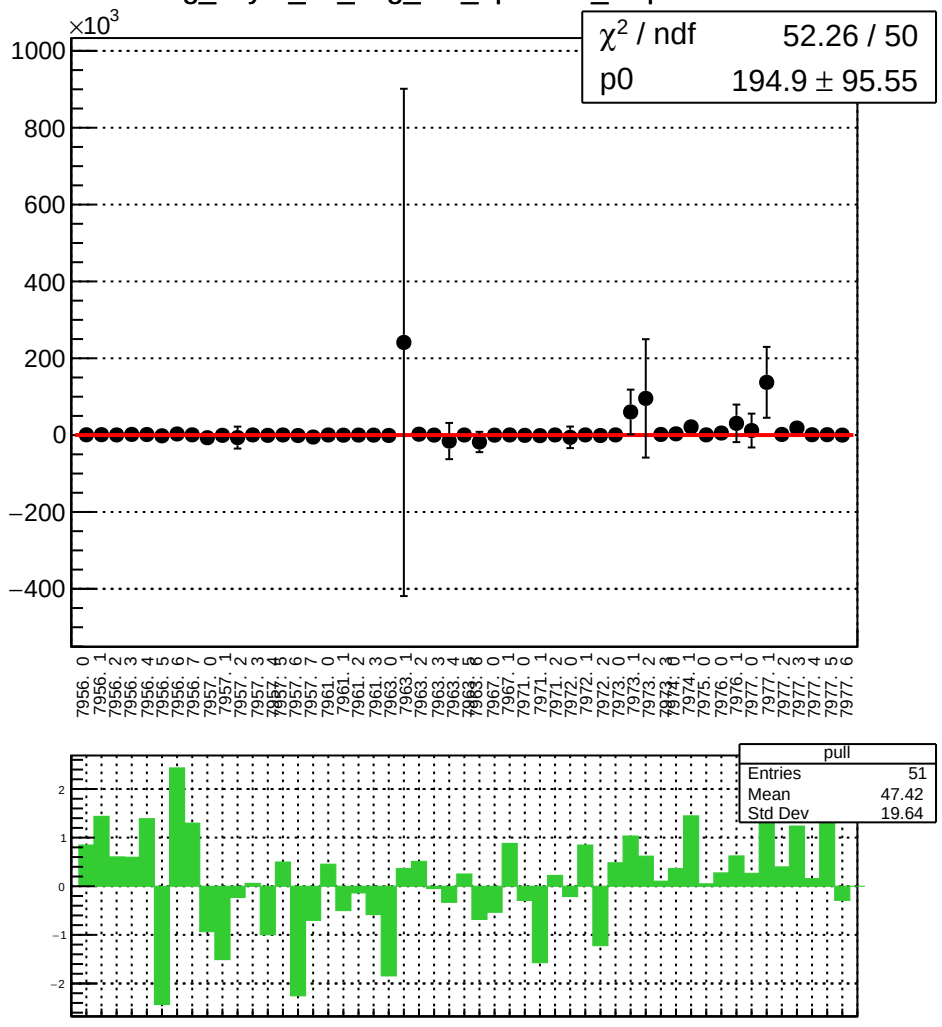

pull1D
Entries 51
Mean 0.004534
Std Dev 0.4788

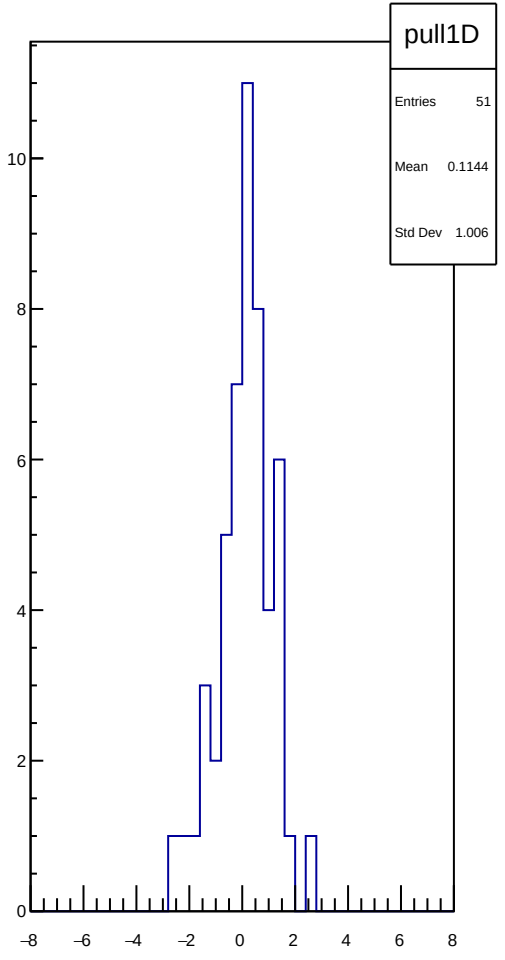

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 35.32 / 50
p0 0.6783 ± 0.1099
pull
Entries 51
Mean −1844
Std Dev 1866

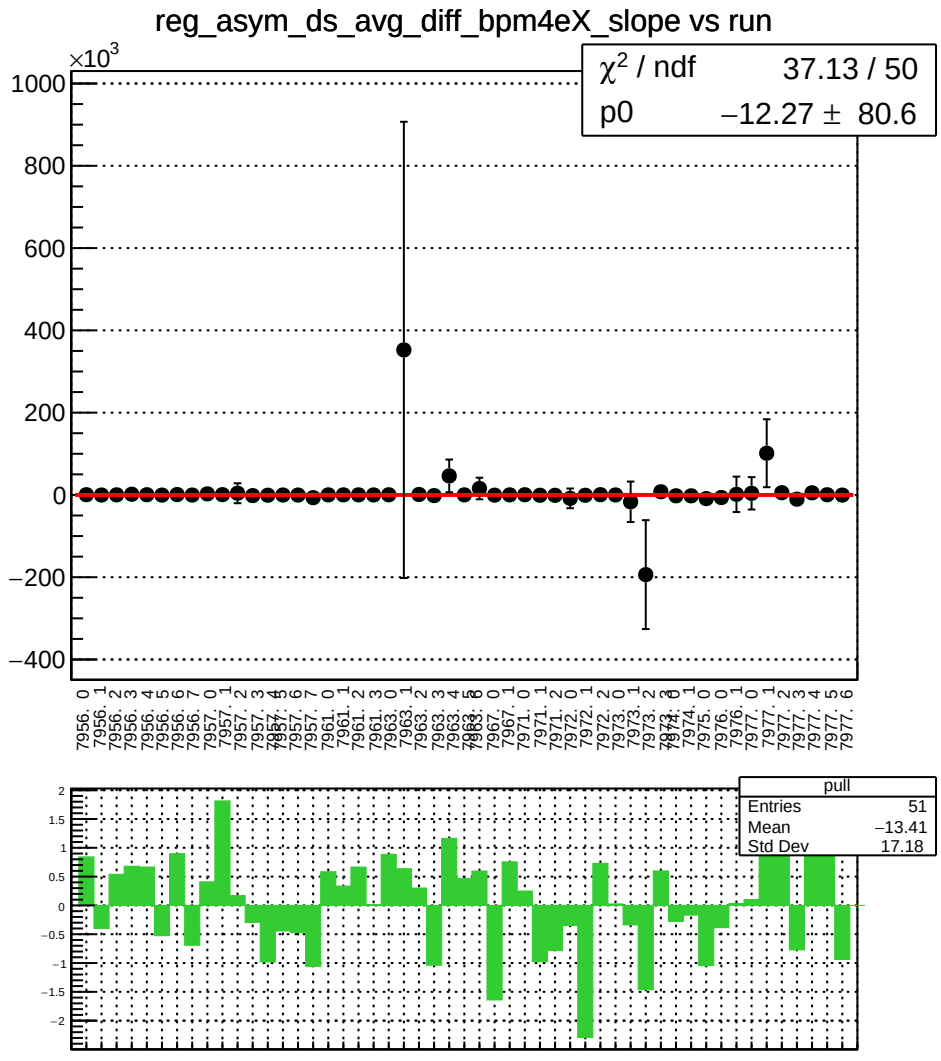

pull1D
Entries 51
Mean −0.004538
Std Dev 0.8322

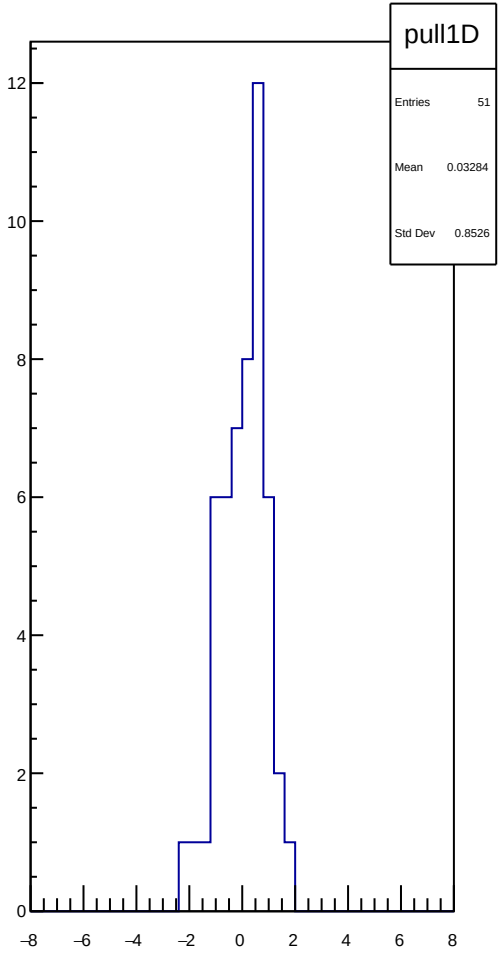

reg_asym_ds_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 36.67 / 50
p0 17.43 ± 91.43
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 51
Mean 3.021
Std Dev 20.76
2
1.5
1
0.5
0
−0.5
−1
−1.5

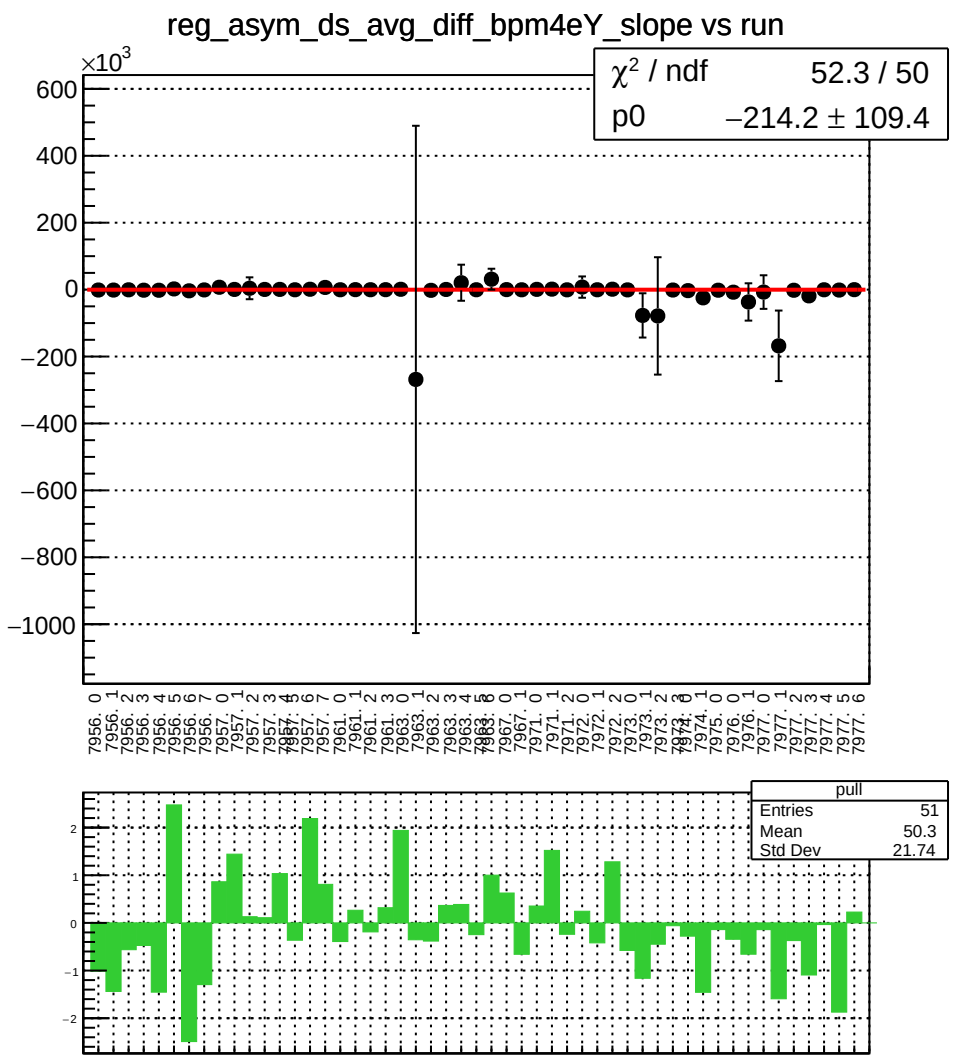

pull1D
Entries 51
Mean −0.04896
Std Dev 0.8465
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

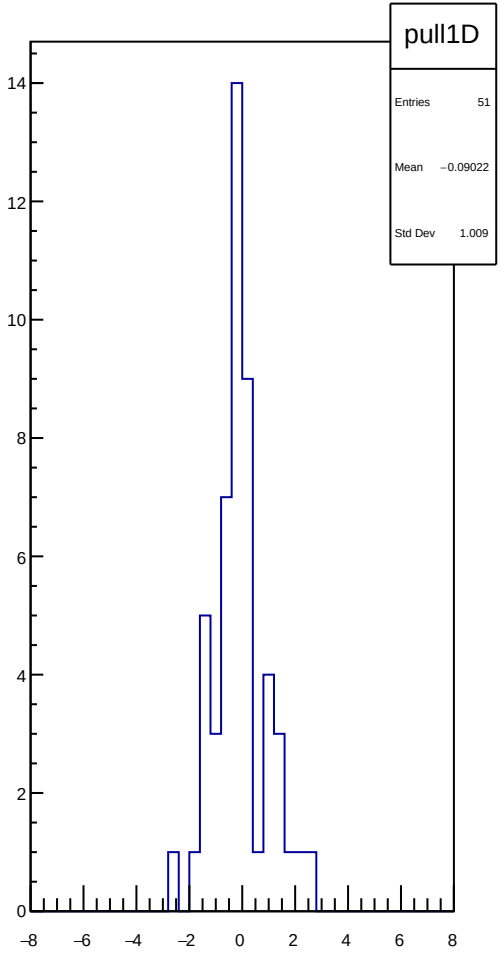

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.26 / 50
p0 194.9 ± 95.55
pull
Entries 51
Mean 47.42
Std Dev 19.64

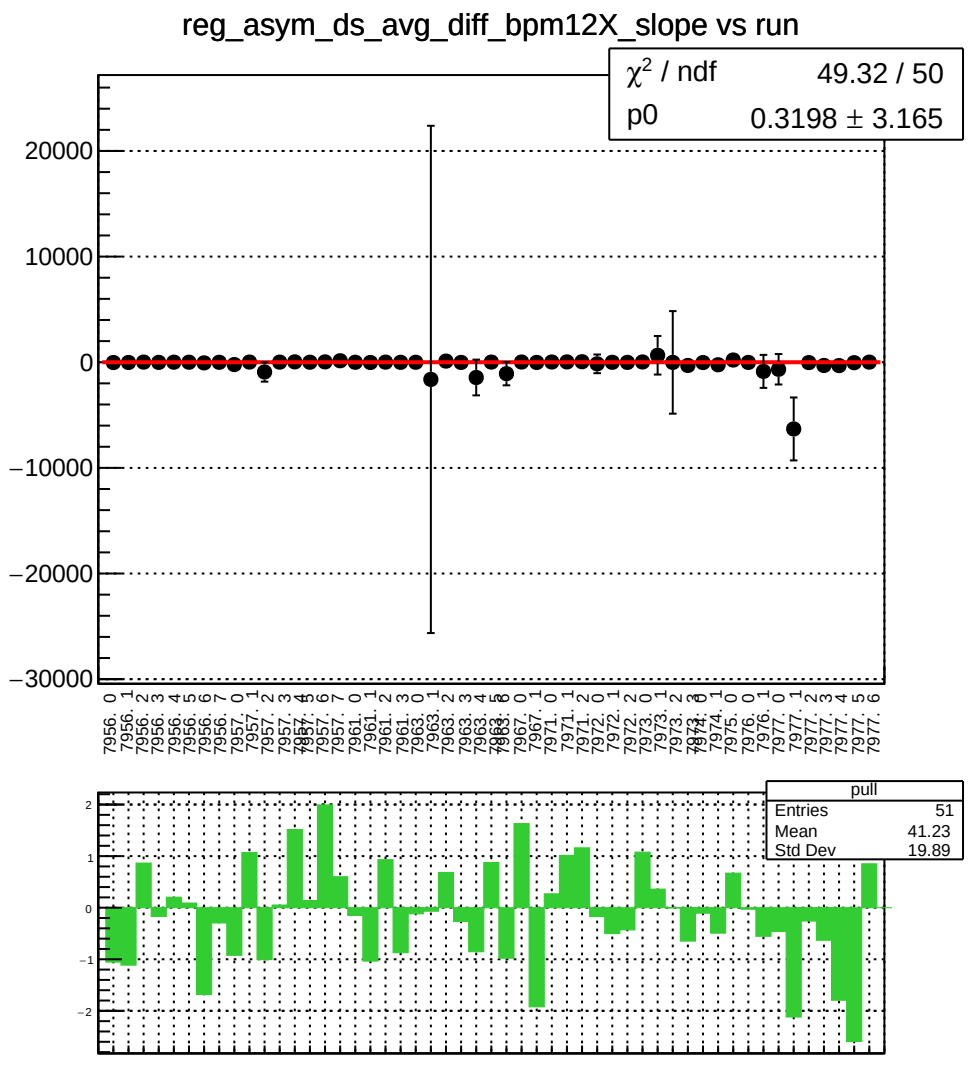

pull1D
Entries 51
Mean 0.1144
Std Dev 1.006

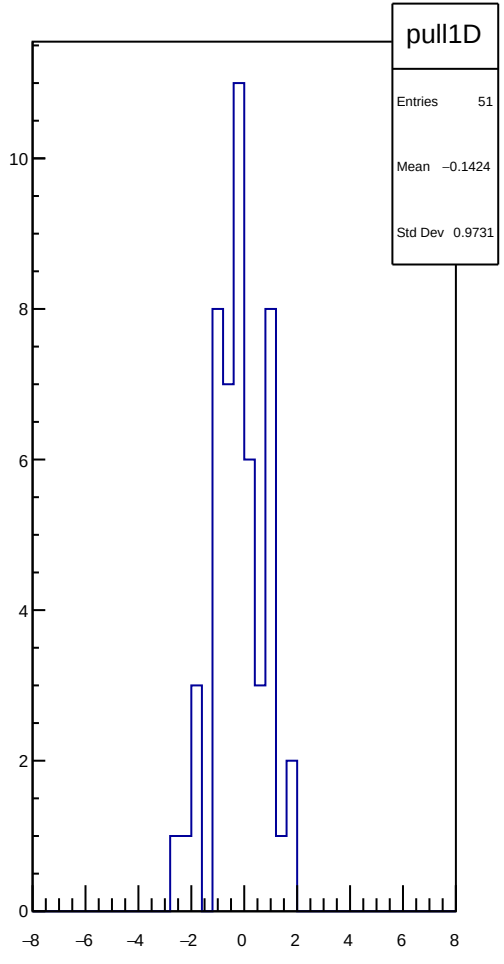

reg_asym_ds_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 37.13 / 50
p0 −12.27 ± 80.6
pull
Entries 51
Mean −13.41
Std Dev 17.18

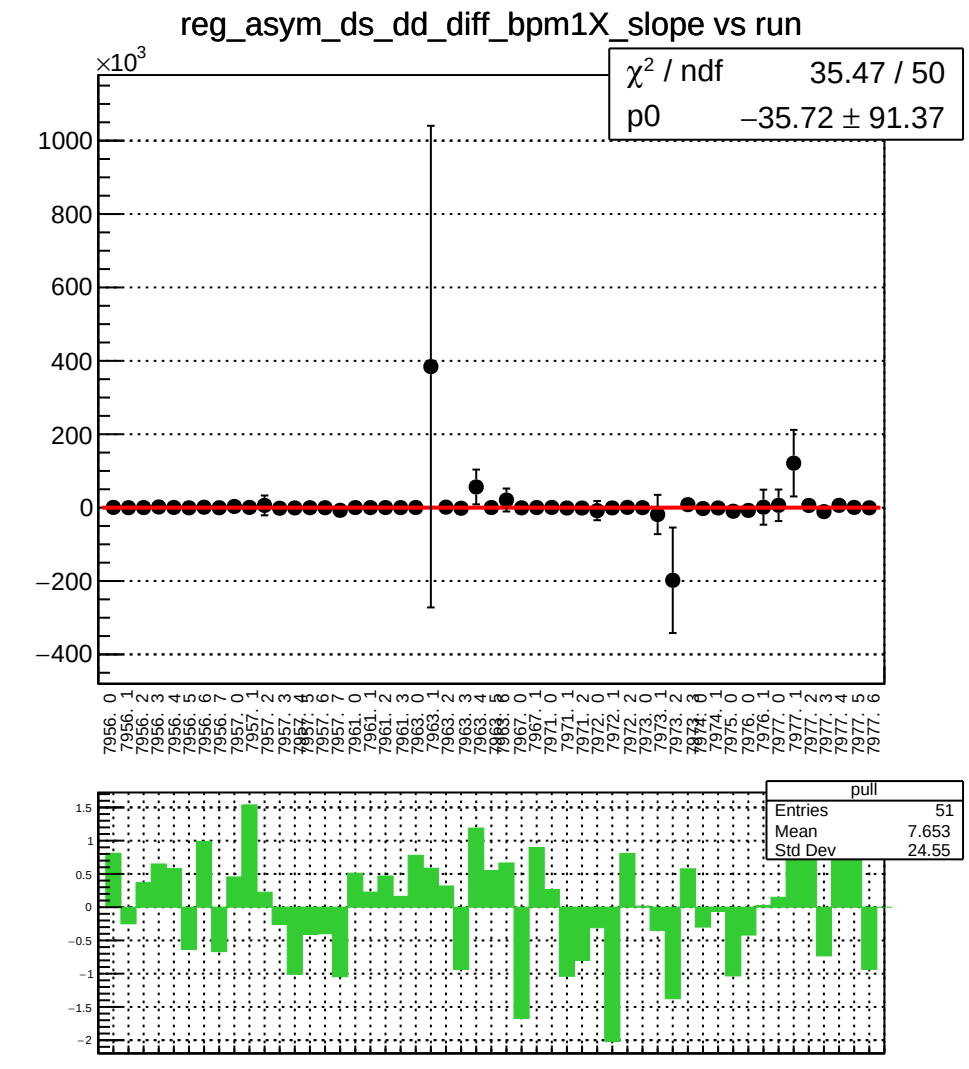

pull1D
Entries 51
Mean 0.03284
Std Dev 0.8526

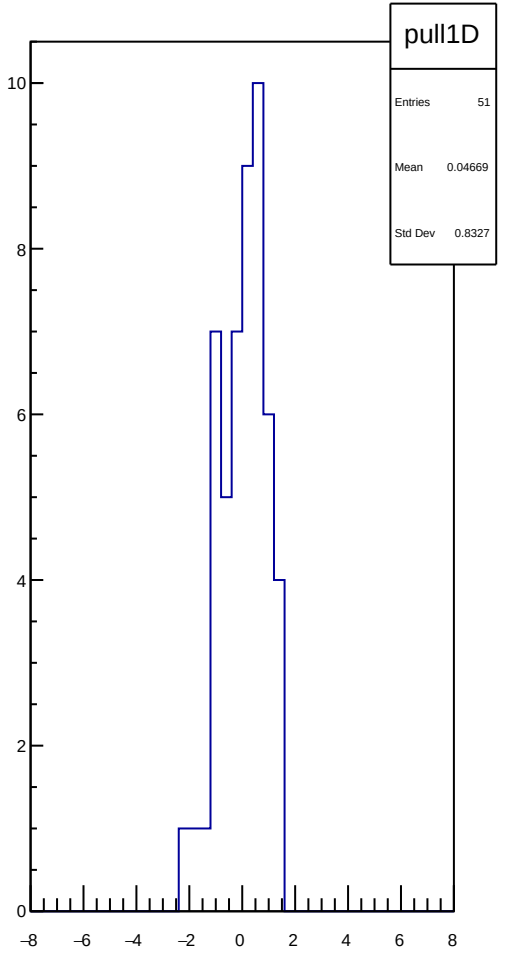

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.3 / 50
p0 −214.2 ± 109.4
×10³
pull
Entries 51
Mean 50.3
Std Dev 21.74

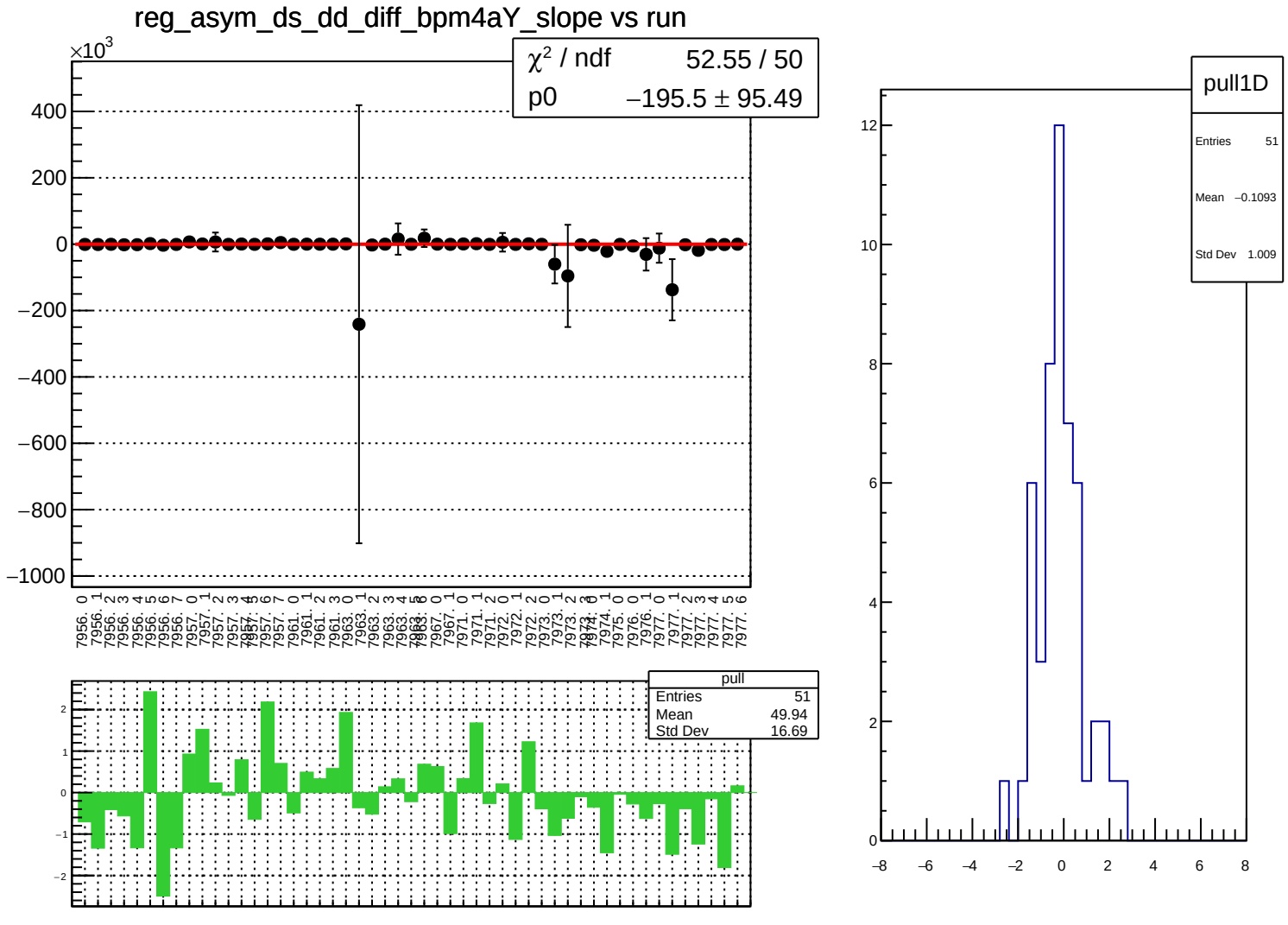

pull1D
Entries 51
Mean −0.09022
Std Dev 1.009

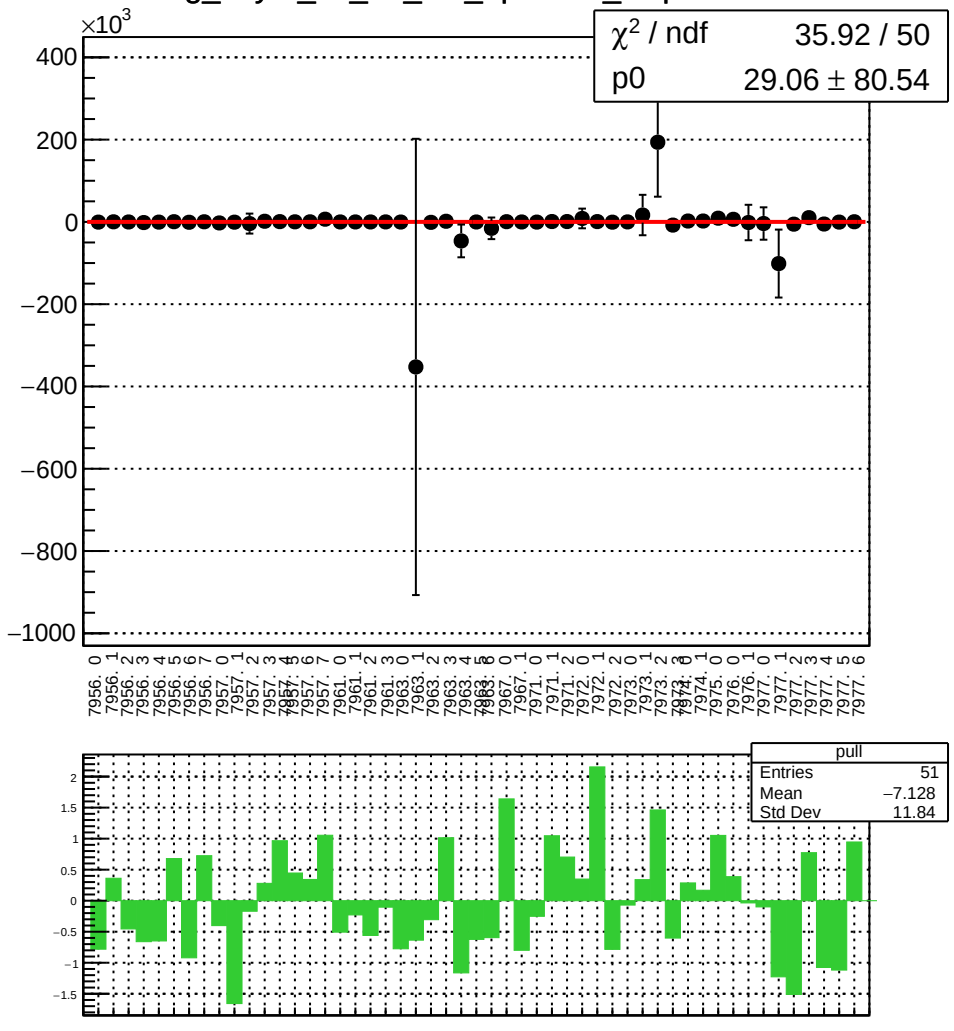

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 49.32 / 50
p0 0.3198 ± 3.165
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean 41.23
Std Dev 19.89
2
1
0
−1
−2

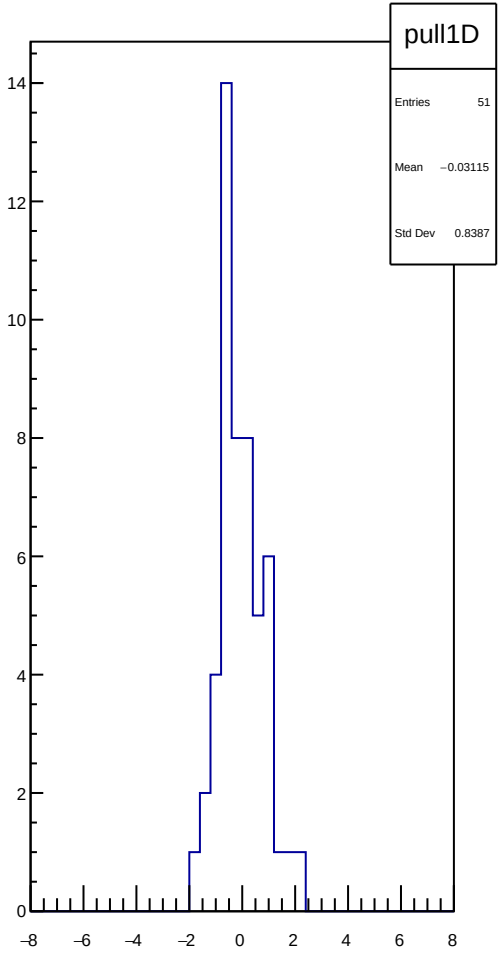

pull1D
Entries 51
Mean −0.1424
Std Dev 0.9731
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

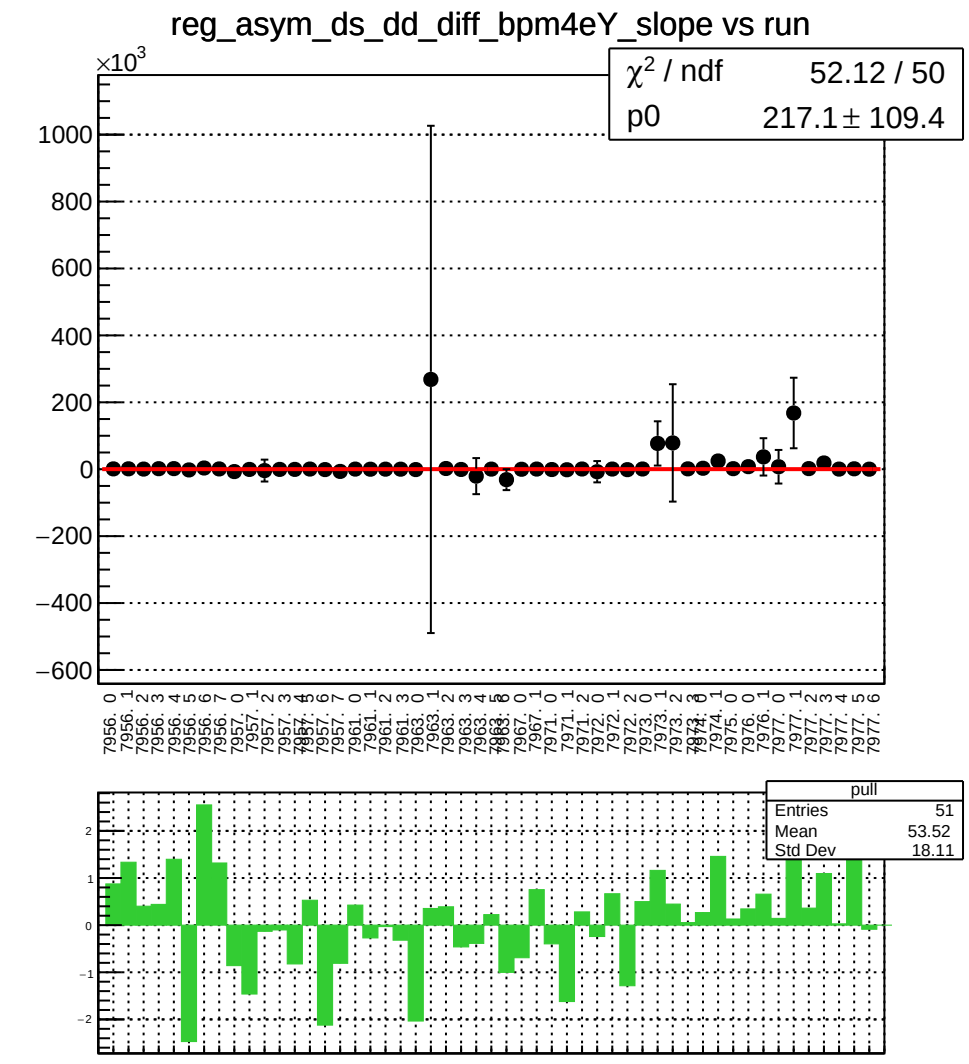

reg_asym_ds_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.47 / 50
p0 −35.72 ± 91.37
1000
800
600
400
200
0
−200
−400
pull
Entries 51
Mean 7.653
Std Dev 24.55
1.5
1
0.5
0
−0.5
−1
−1.5
−2

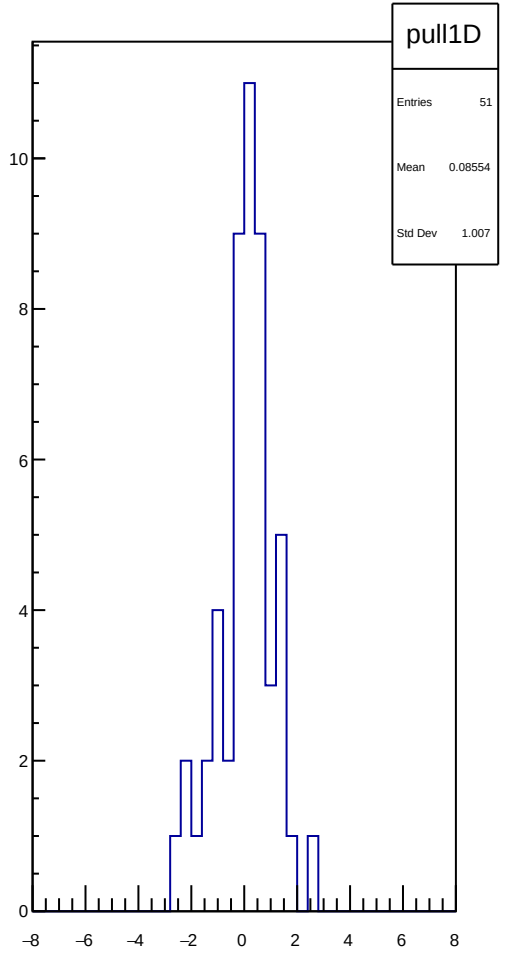

pull1D
Entries 51
Mean 0.04669
Std Dev 0.8327
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

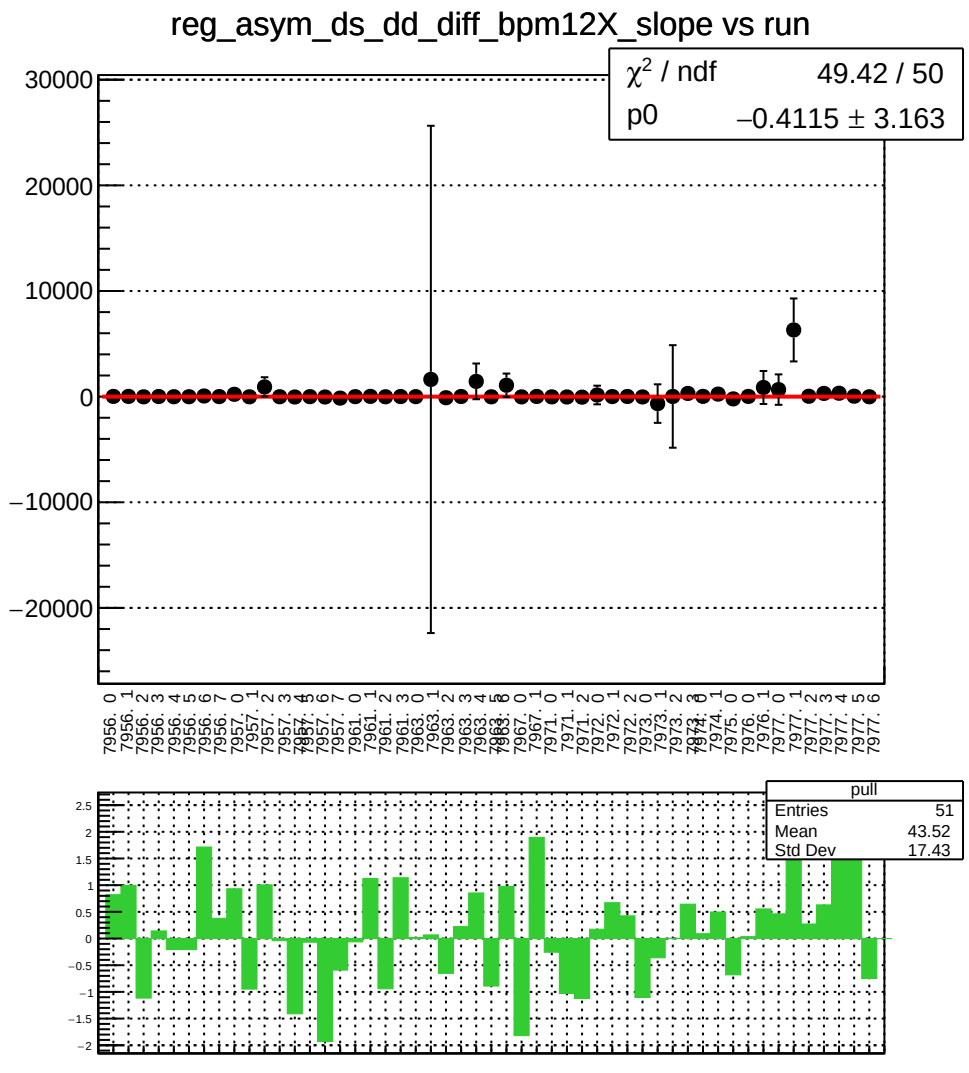

reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 52.55 / 50
p0 −195.5 ± 95.49
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 51
Mean 49.94
Std Dev 16.69
pull1D
Entries 51
Mean −0.1093
Std Dev 1.009

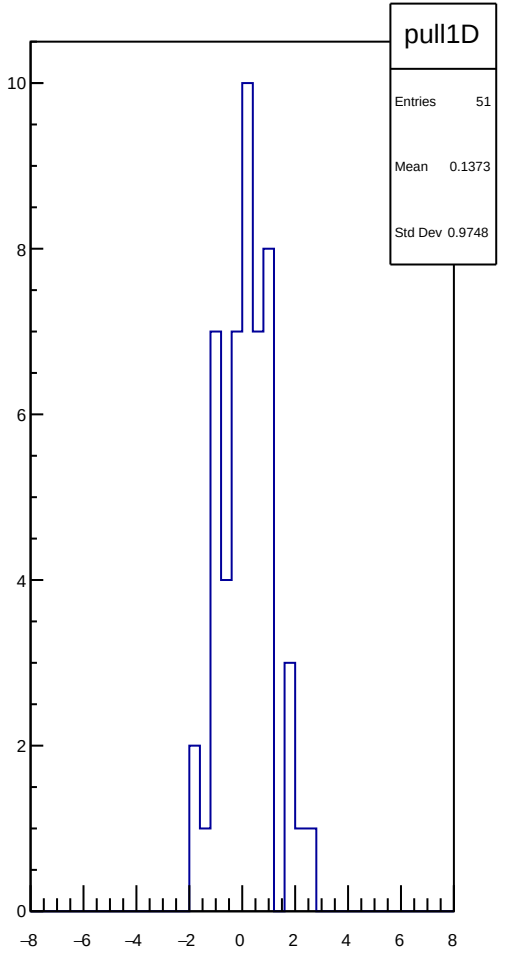

reg_asym_ds_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 35.92 / 50
p0 29.06 ± 80.54
pull
Entries 51
Mean −7.128
Std Dev 11.84

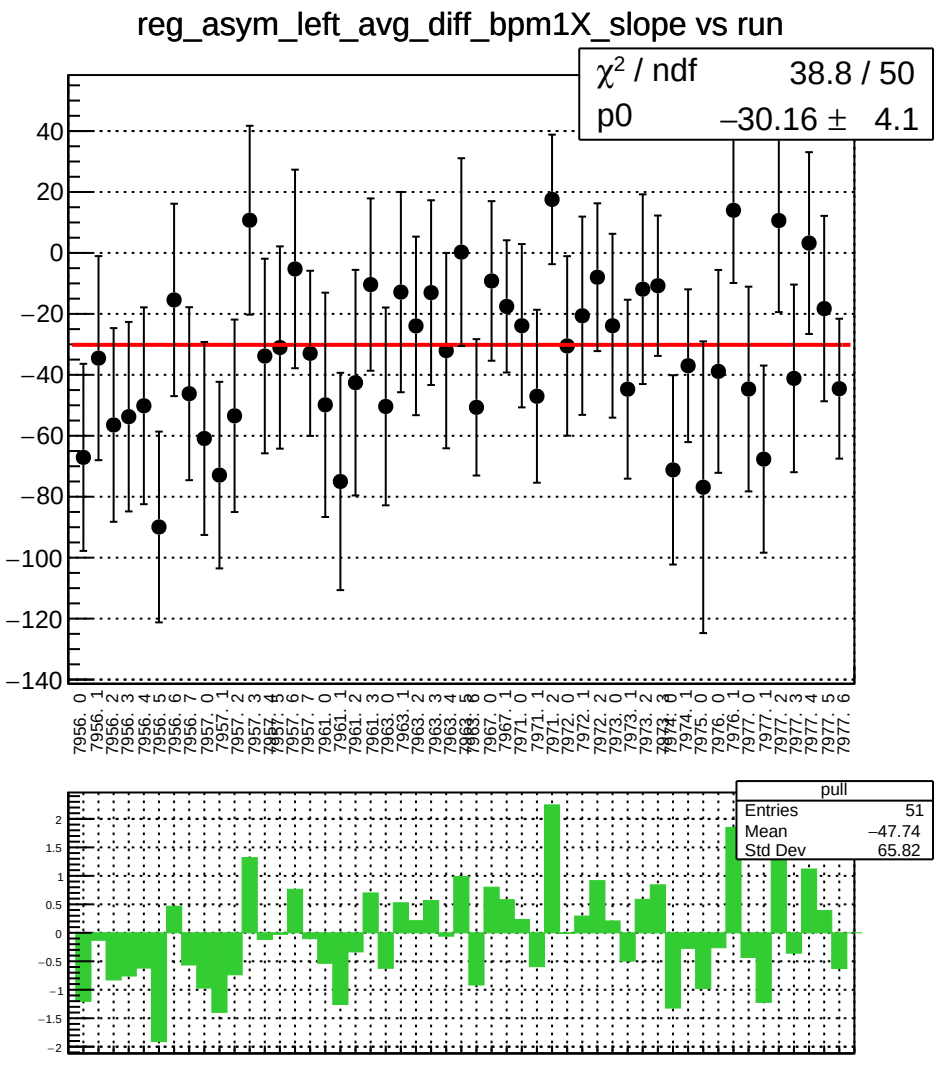

pull1D
Entries 51
Mean −0.03115
Std Dev 0.8387

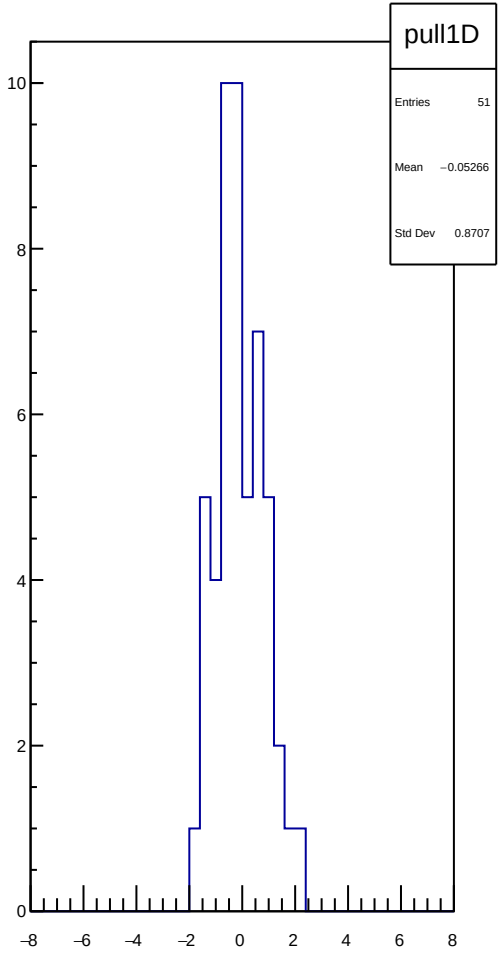

reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 52.12 / 50
p0 217.1 ± 109.4
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 51
Mean 53.52
Std Dev 18.11
2
1
0
−1
−2

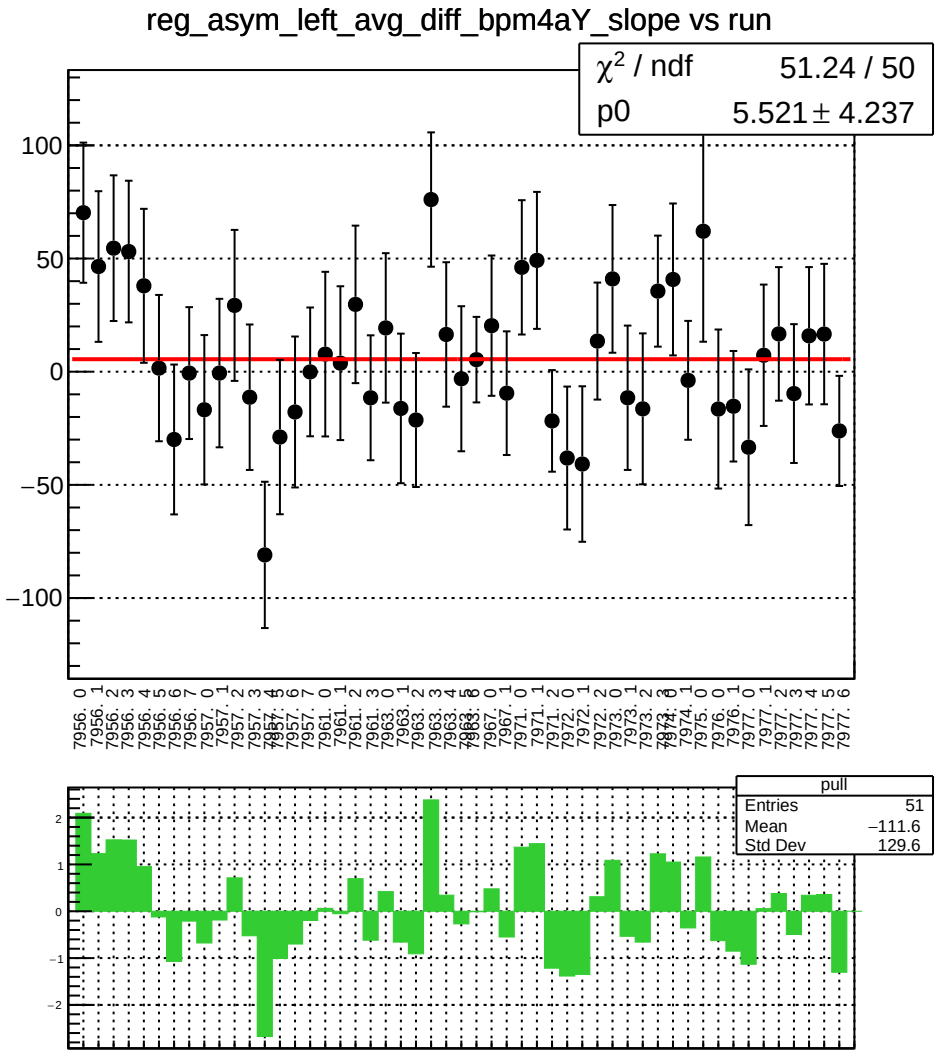

pull1D
Entries 51
Mean 0.08554
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

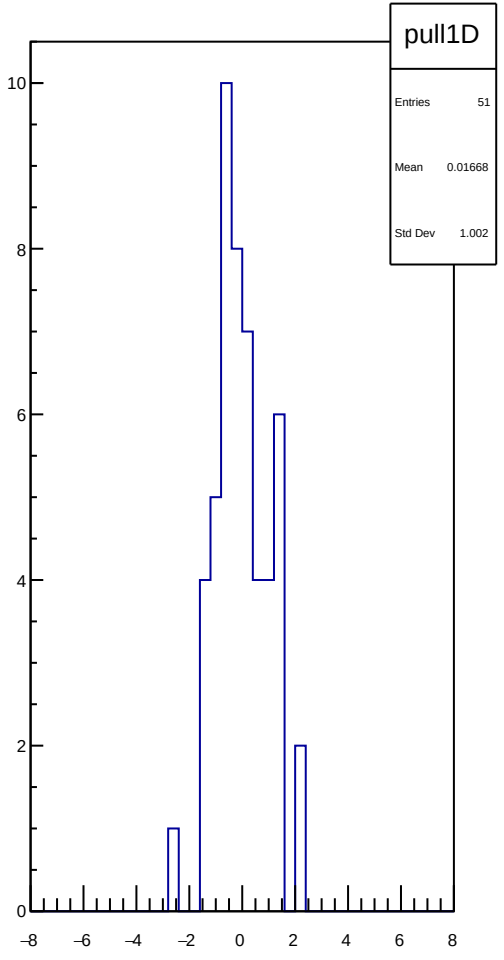

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 49.42 / 50
p0 −0.4115 ± 3.163
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 43.52
Std Dev 17.43
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

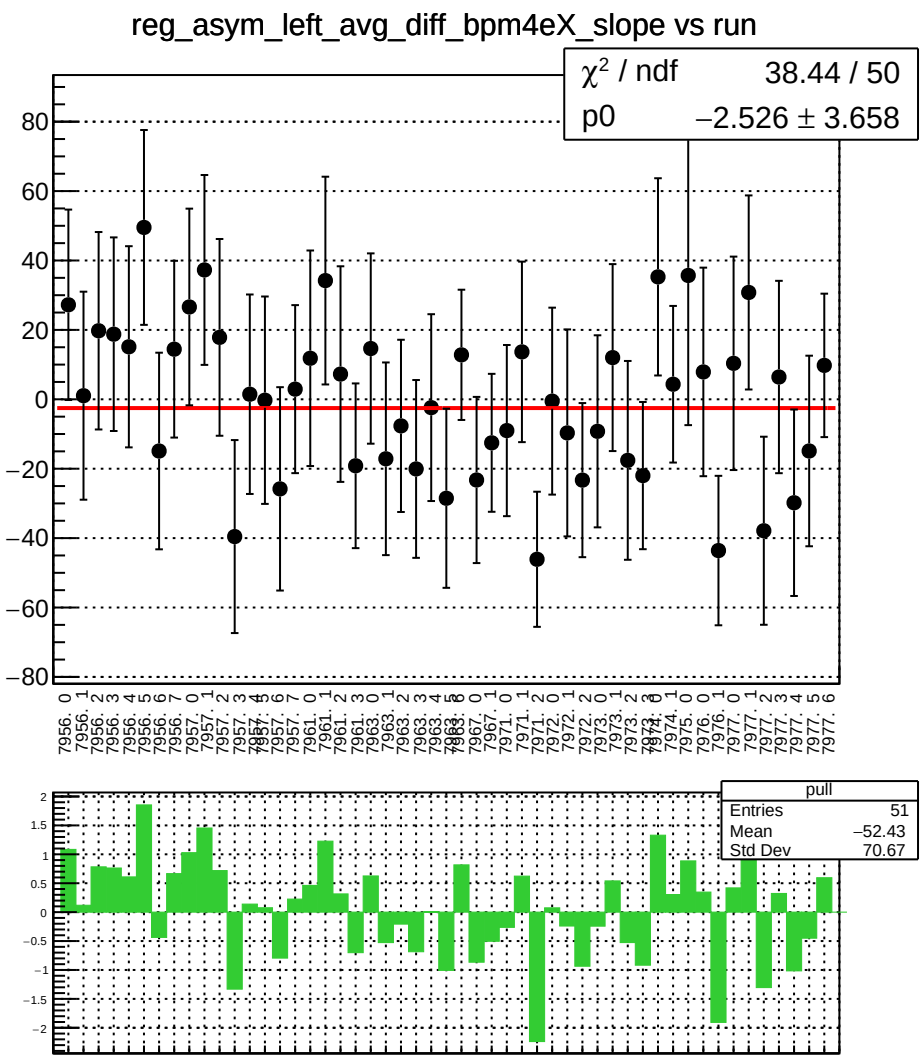

pull1D
Entries 51
Mean 0.1373
Std Dev 0.9748
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

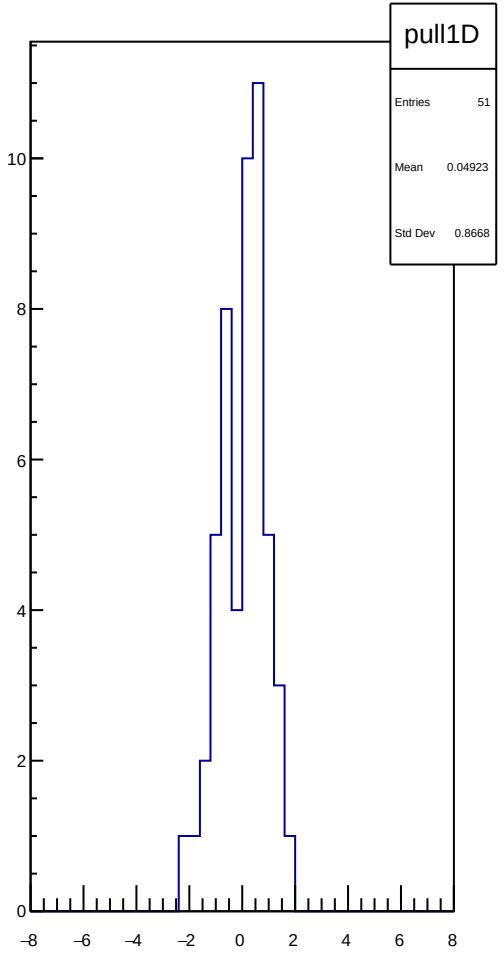

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 38.8 / 50
p0 −30.16 ± 4.1
pull
Entries 51
Mean −47.74
Std Dev 65.82

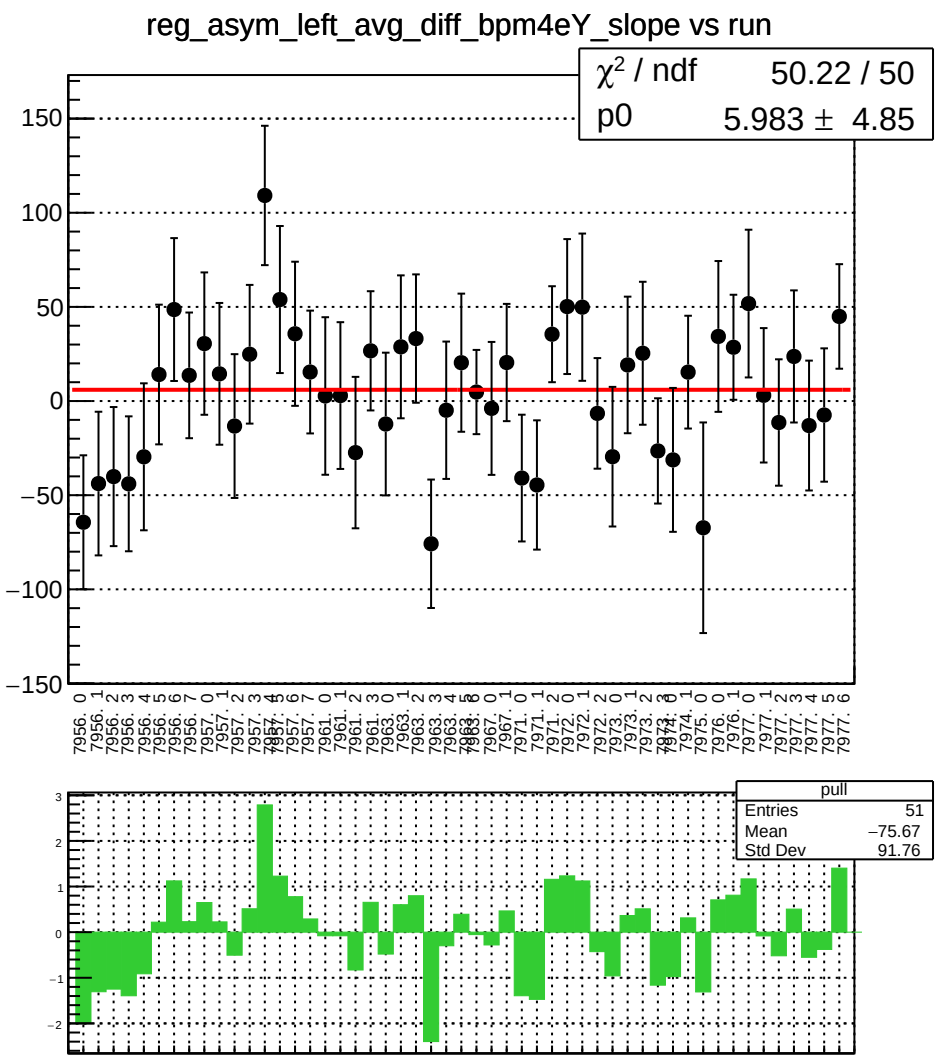

pull1D
Entries 51
Mean −0.05266
Std Dev 0.8707

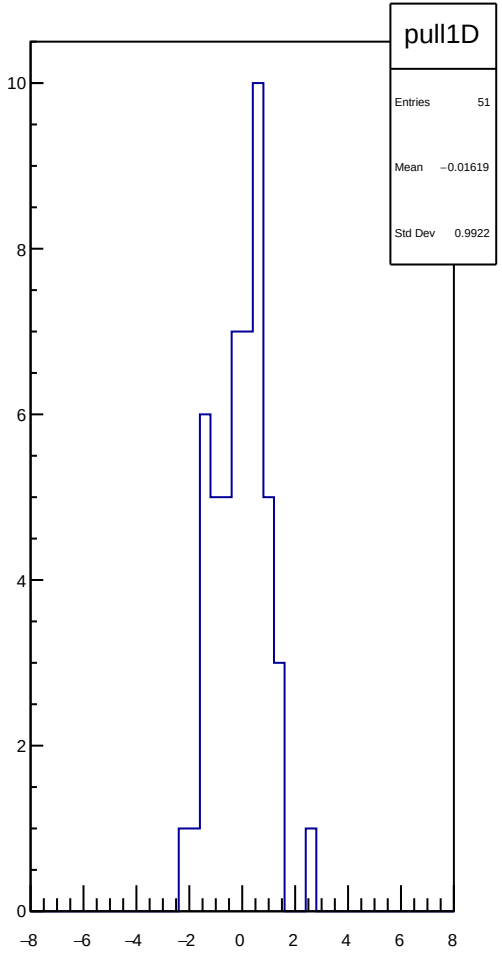

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 51.24 / 50
p0 5.521 ± 4.237
pull
Entries 51
Mean −111.6
Std Dev 129.6

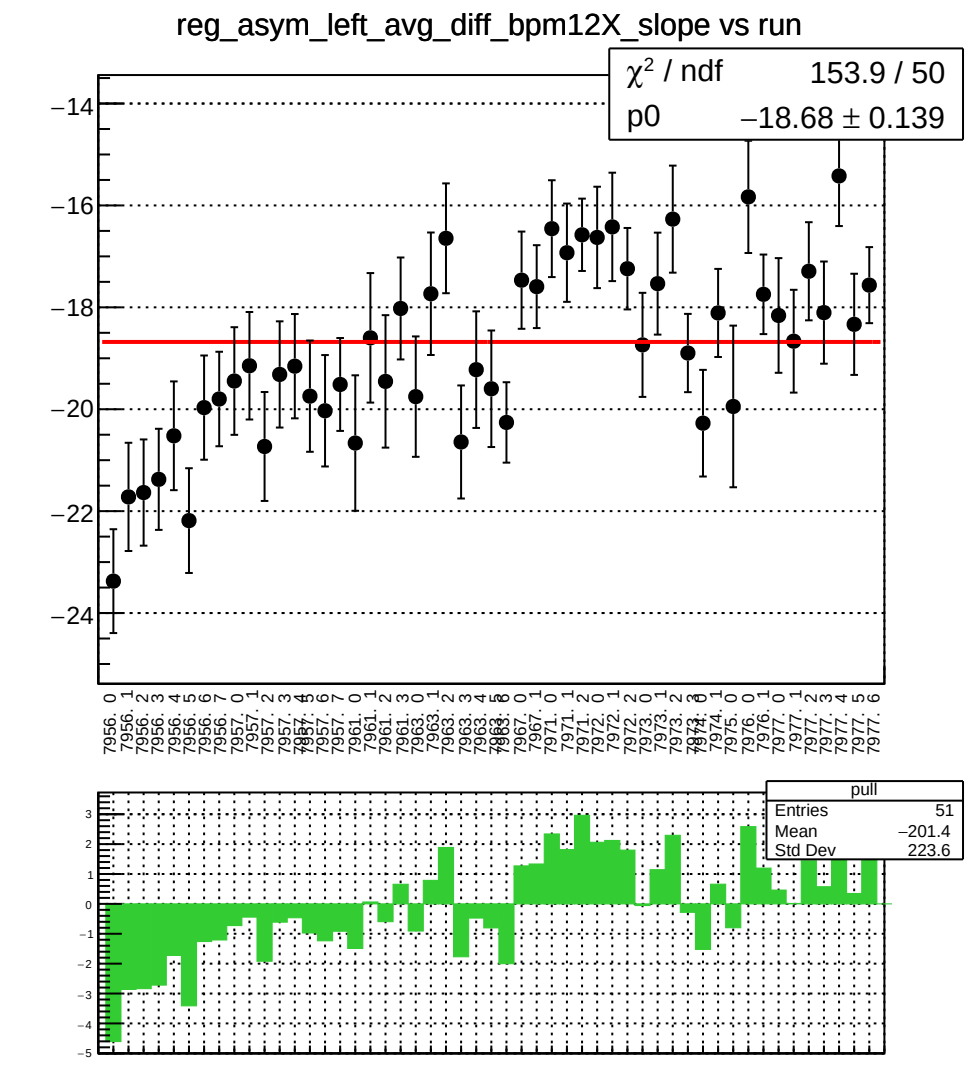

pull1D
Entries 51
Mean 0.01668
Std Dev 1.002

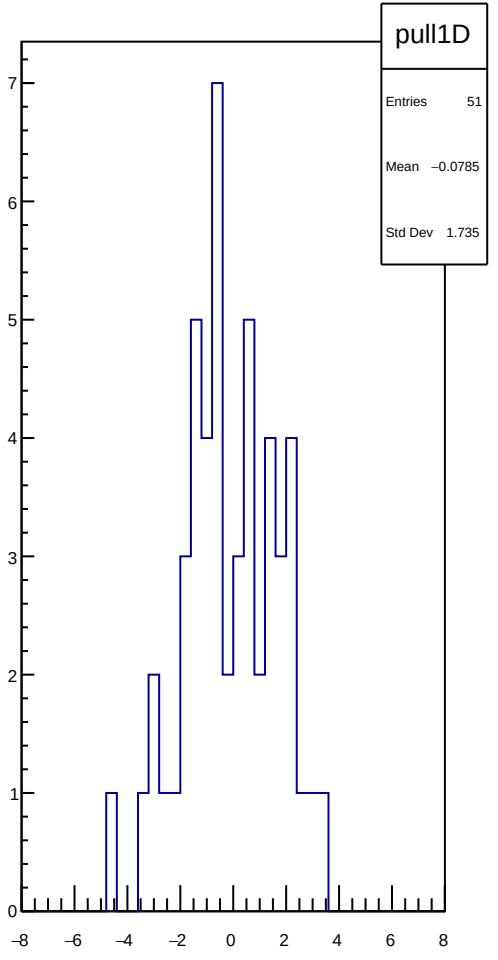

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 38.44 / 50
p0 −2.526 ± 3.658
pull
Entries 51
Mean −52.43
Std Dev 70.67

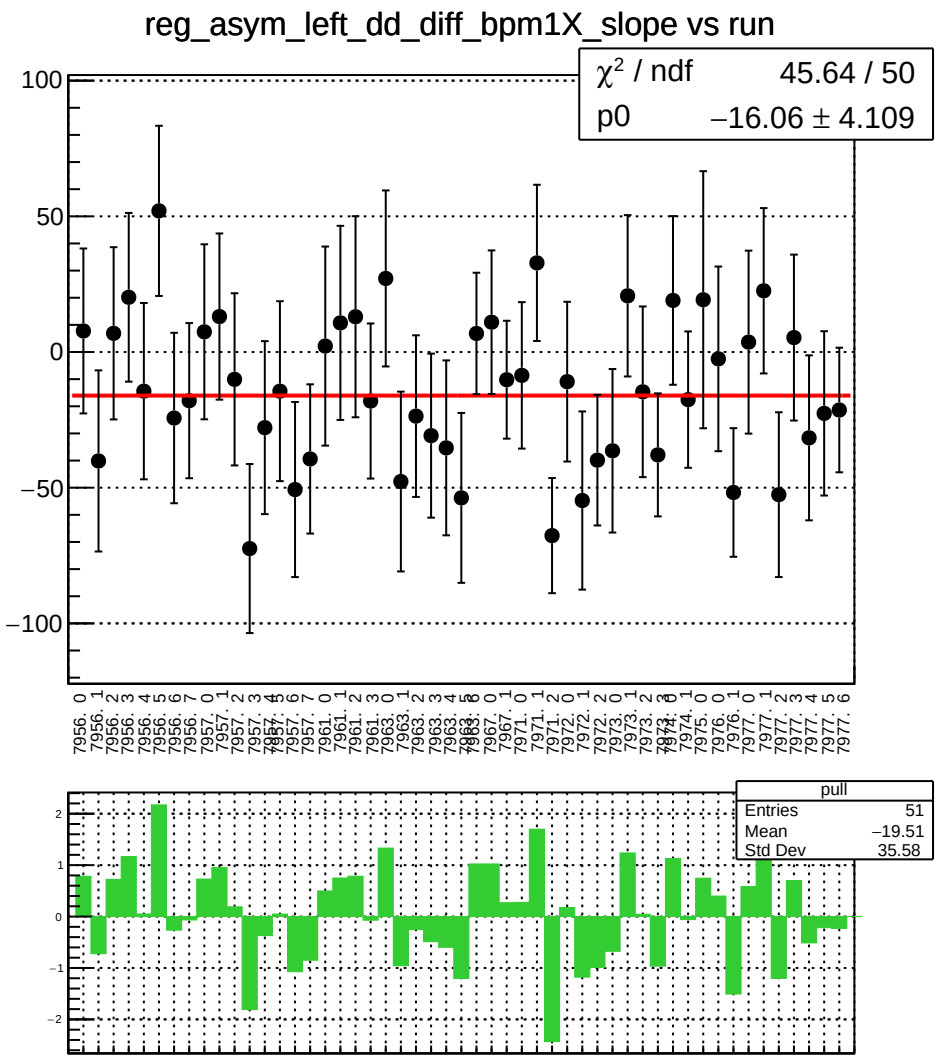

pull1D
Entries 51
Mean 0.04923
Std Dev 0.8668

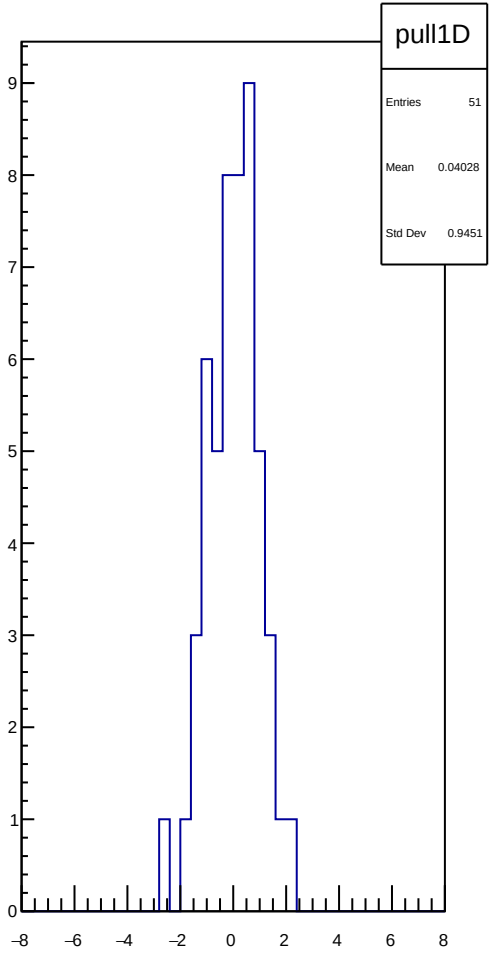

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.22 / 50
p0 5.983 ± 4.85
pull
Entries 51
Mean −75.67
Std Dev 91.76

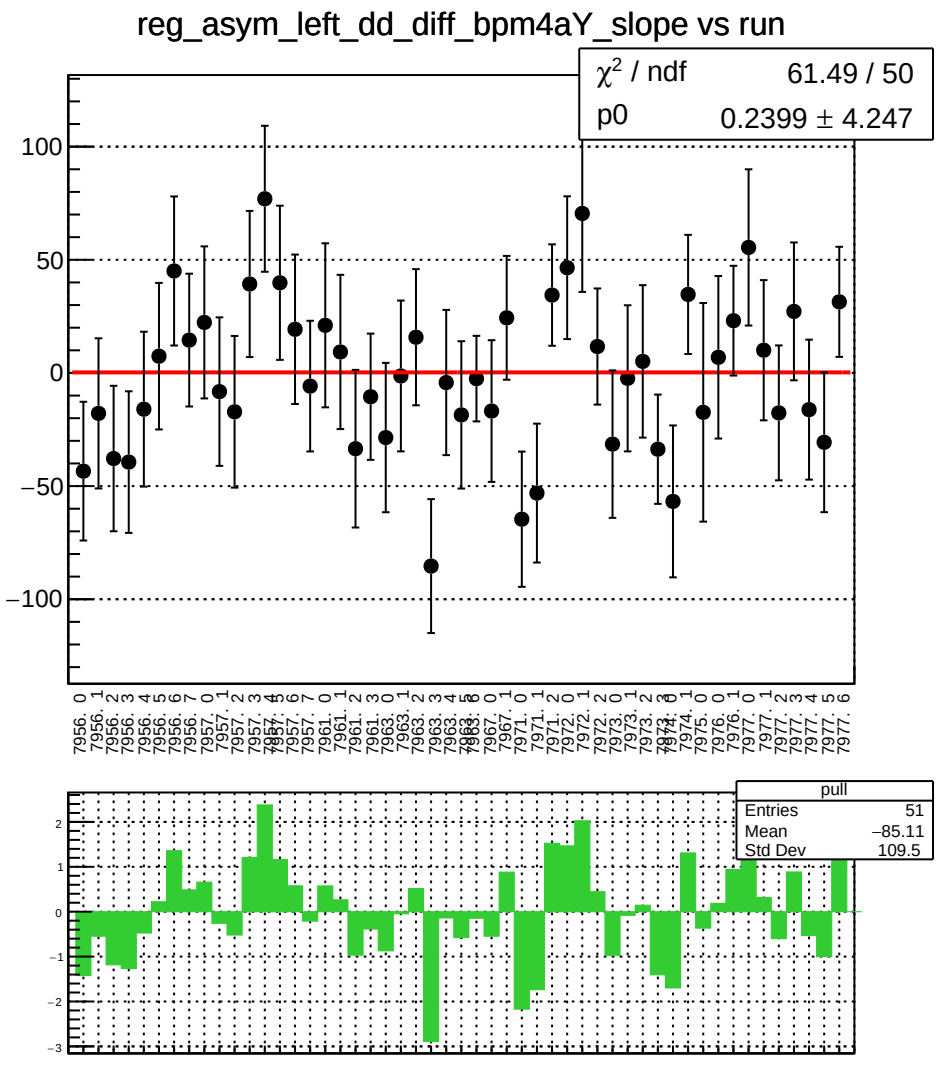

pull1D
Entries 51
Mean −0.01619
Std Dev 0.9922

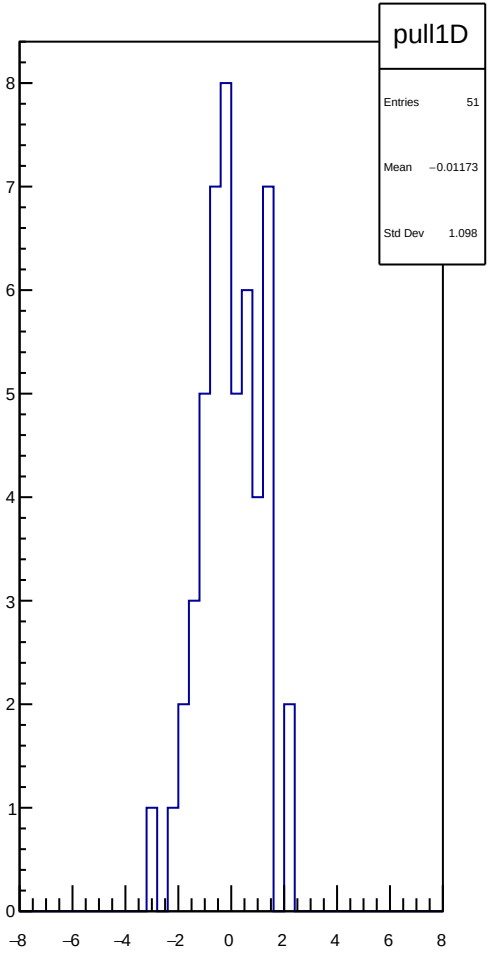

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 153.9 / 50
p0 −18.68 ± 0.139
pull
Entries 51
Mean −201.4
Std Dev 223.6

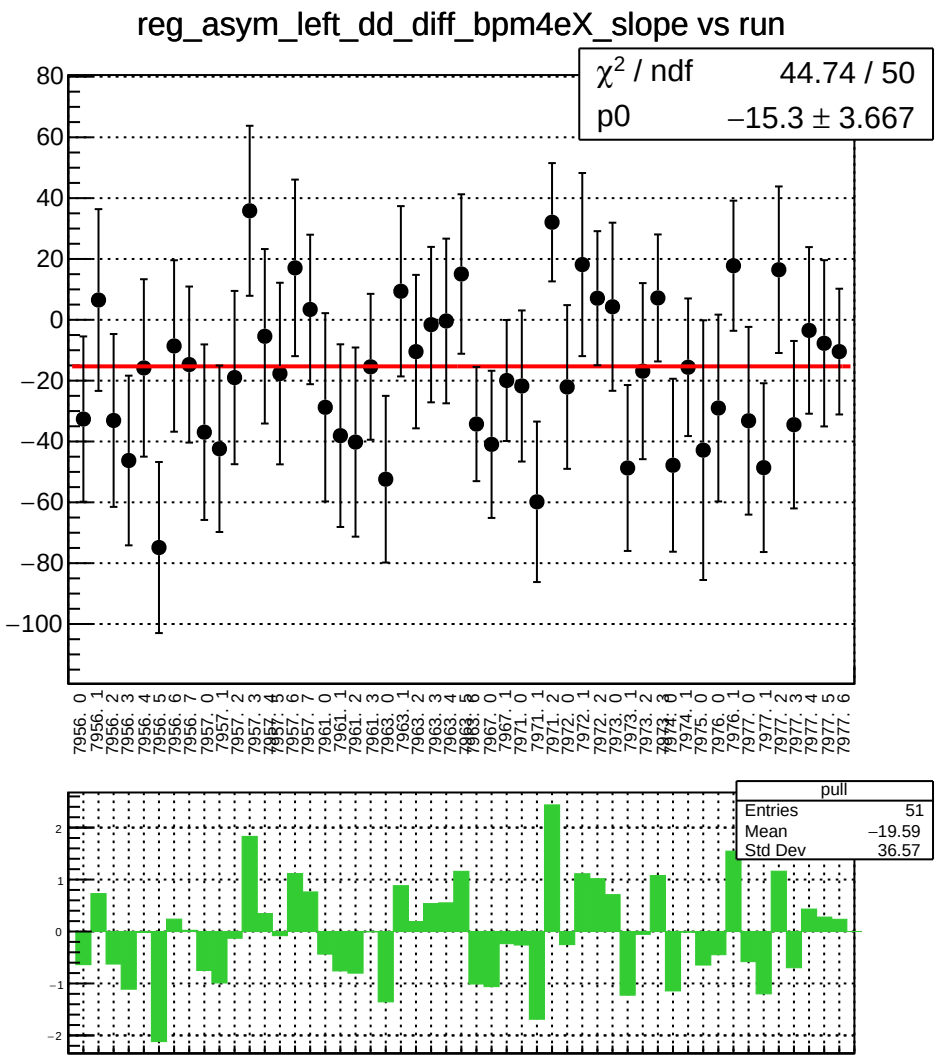

pull1D
Entries 51
Mean −0.0785
Std Dev 1.735

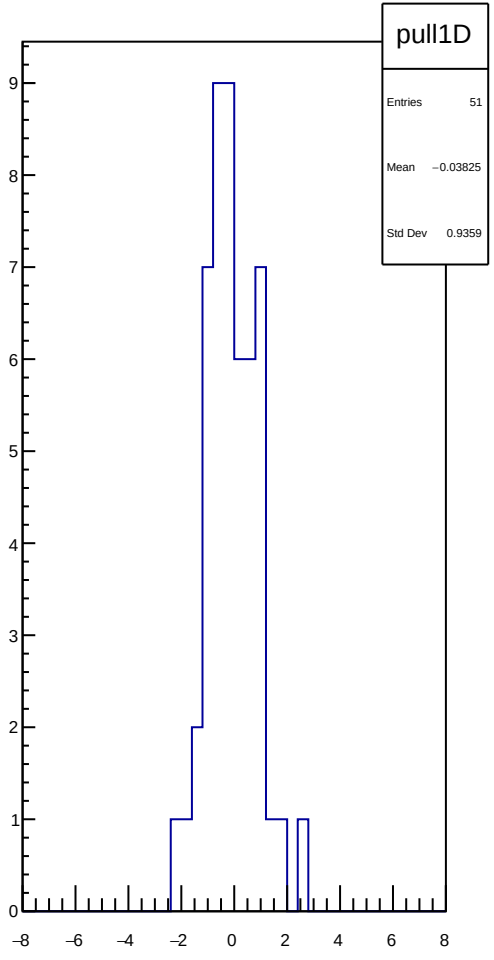

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 45.64 / 50
p0 −16.06 ± 4.109
pull
Entries 51
Mean −19.51
Std Dev 35.58

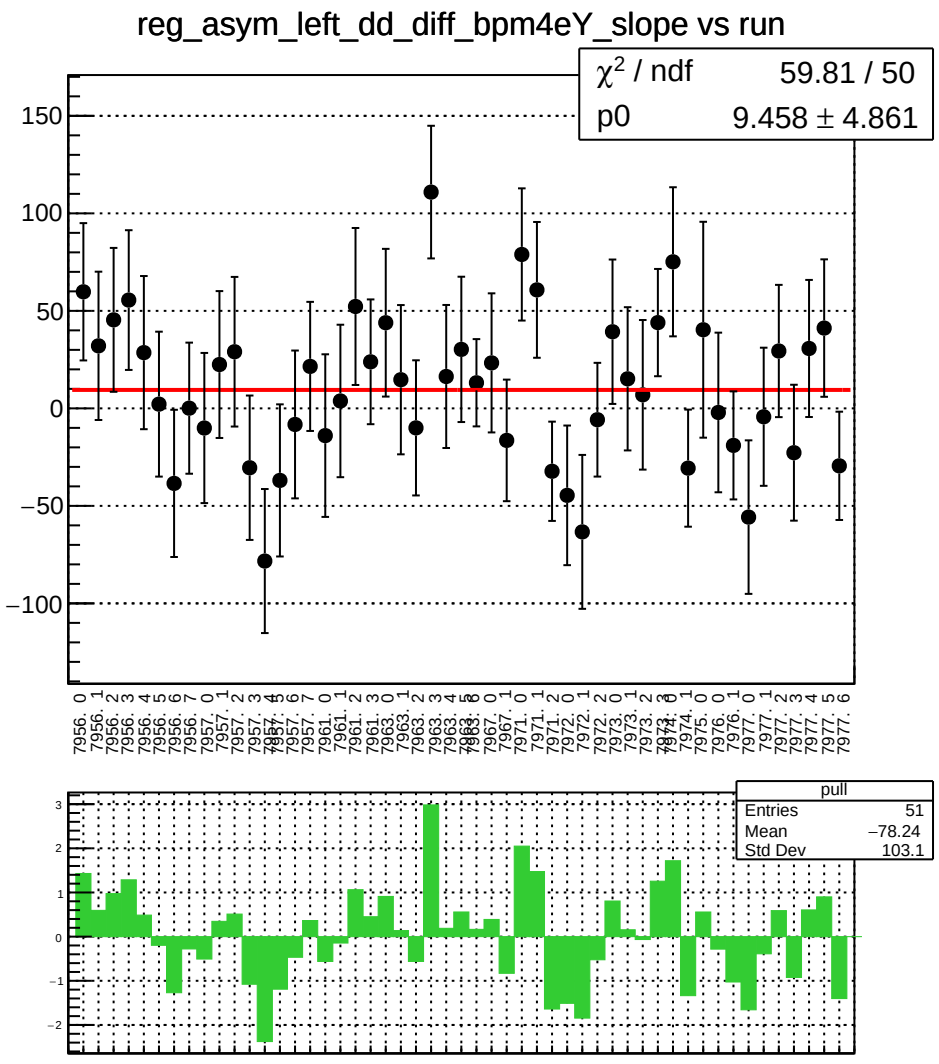

pull1D
Entries 51
Mean 0.04028
Std Dev 0.9451

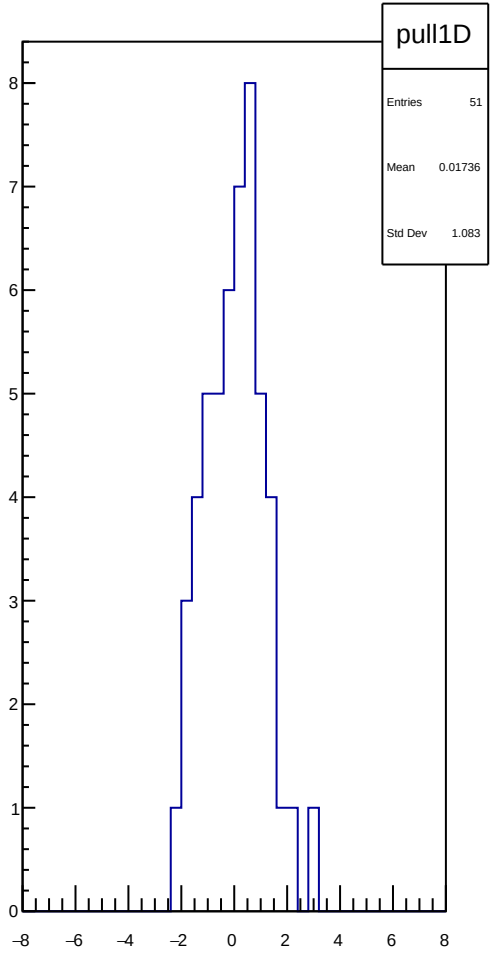

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.49 / 50
p0 0.2399 ± 4.247
pull
Entries 51
Mean −85.11
Std Dev 109.5

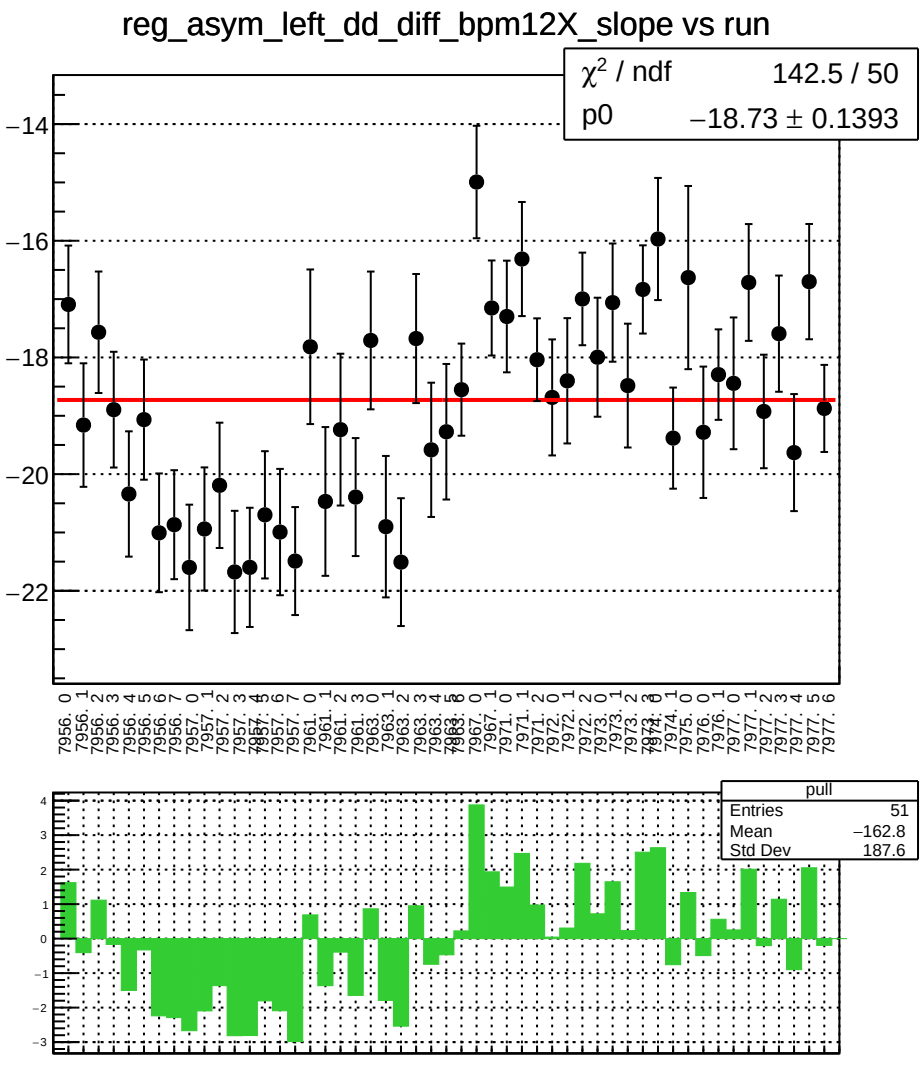

pull1D
Entries 51
Mean −0.01173
Std Dev 1.098

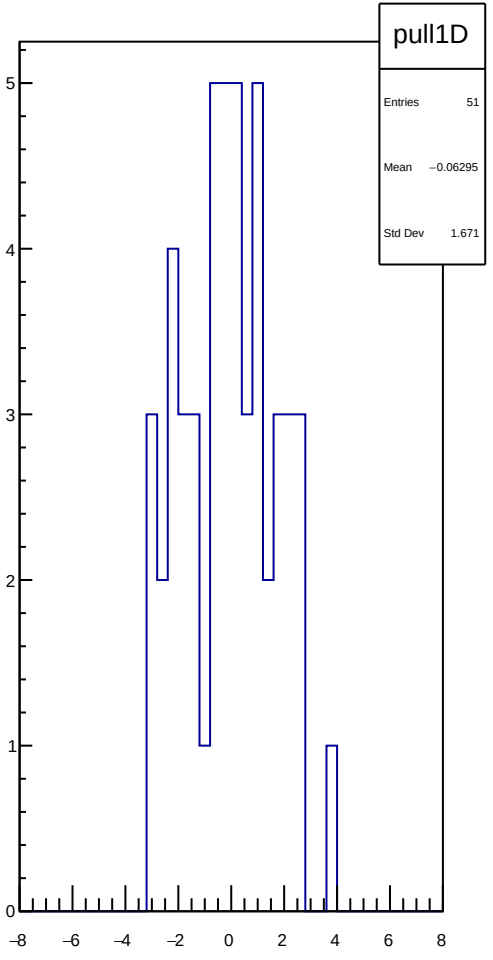

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.74 / 50
p0 −15.3 ± 3.667
pull
Entries 51
Mean −19.59
Std Dev 36.57

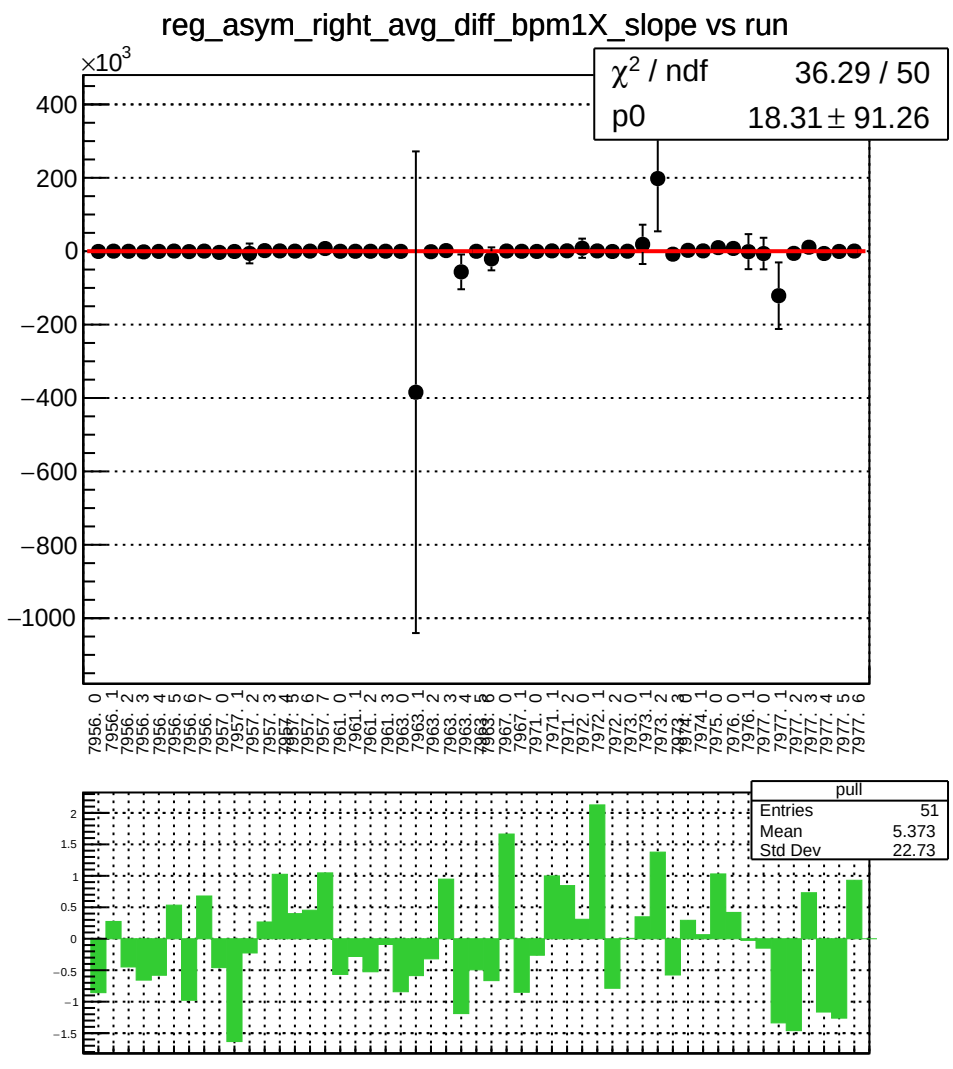

pull1D
Entries 51
Mean −0.03825
Std Dev 0.9359

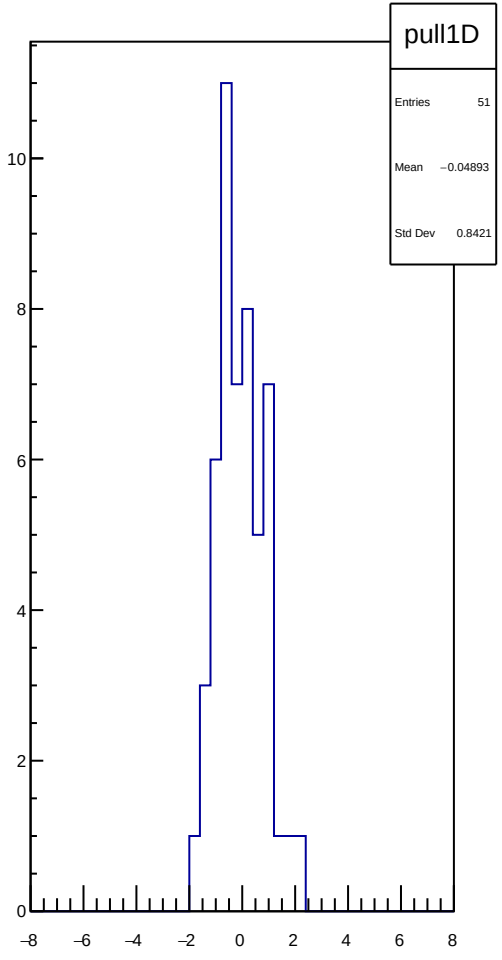

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.81 / 50
p0 9.458 ± 4.861
pull
Entries 51
Mean −78.24
Std Dev 103.1

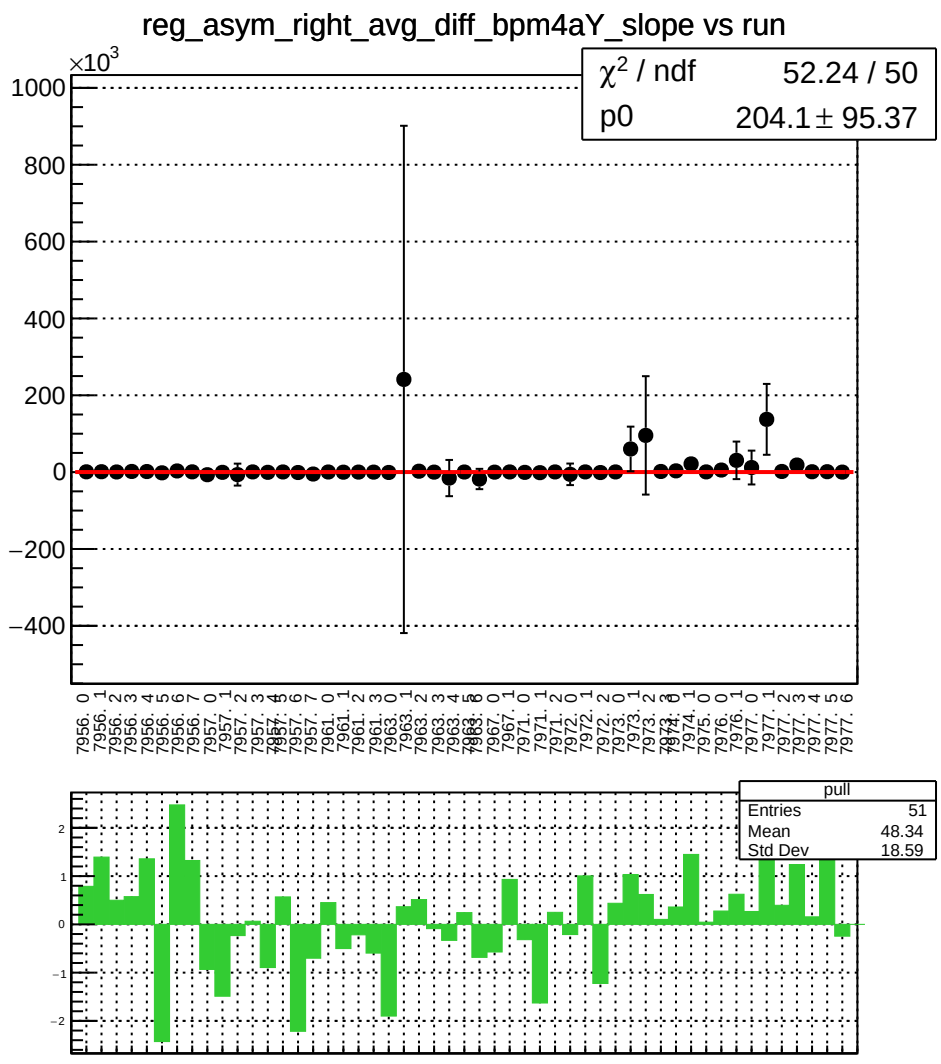

pull1D
Entries 51
Mean 0.01736
Std Dev 1.083

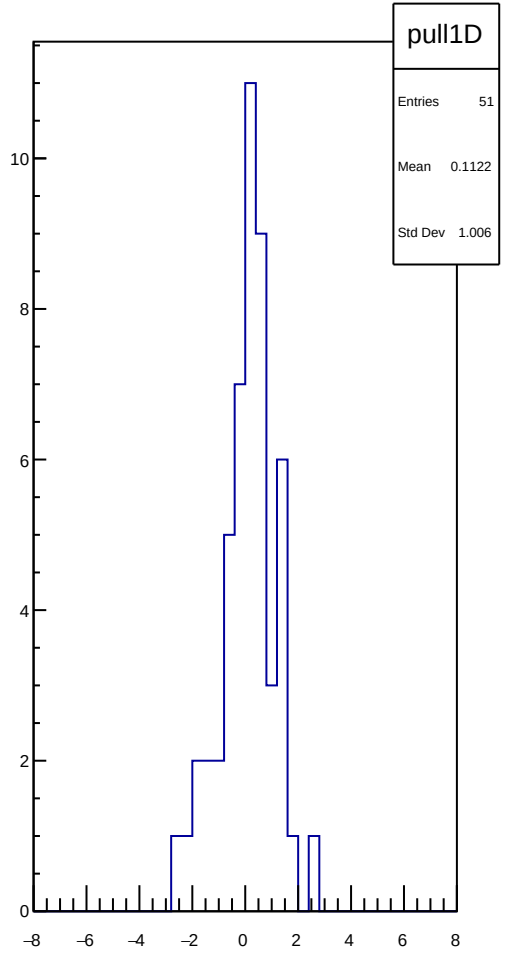

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 142.5 / 50
p0 −18.73 ± 0.1393
pull
Entries 51
Mean −162.8
Std Dev 187.6

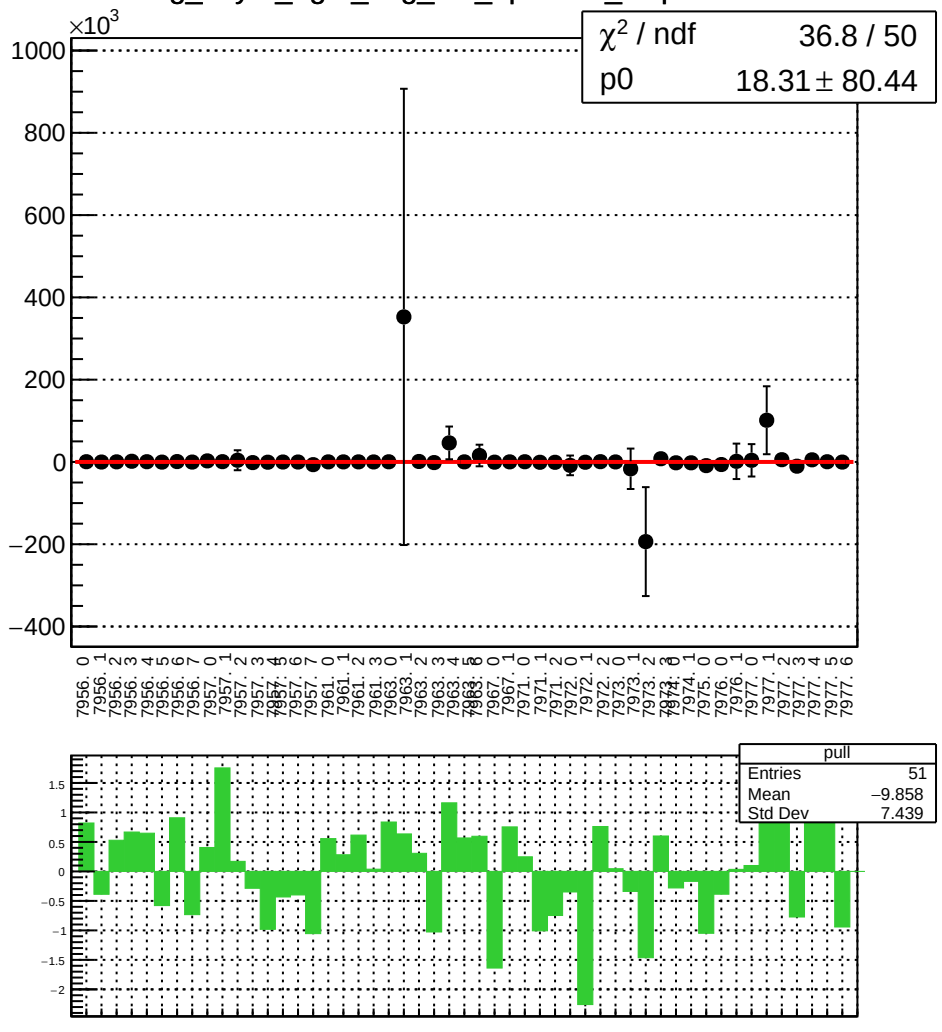

pull1D
Entries 51
Mean −0.06295
Std Dev 1.671

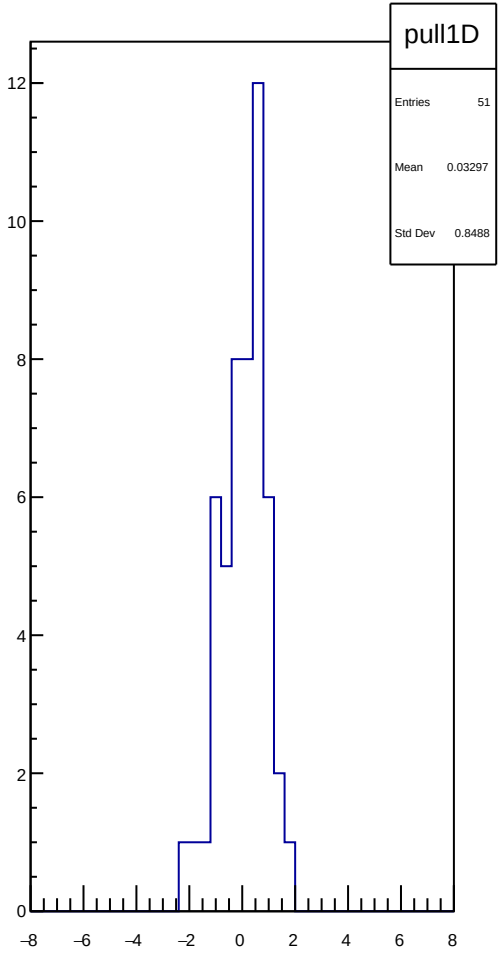

reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ² / ndf 36.29 / 50
p0 18.31 ± 91.26
pull
Entries 51
Mean 5.373
Std Dev 22.73

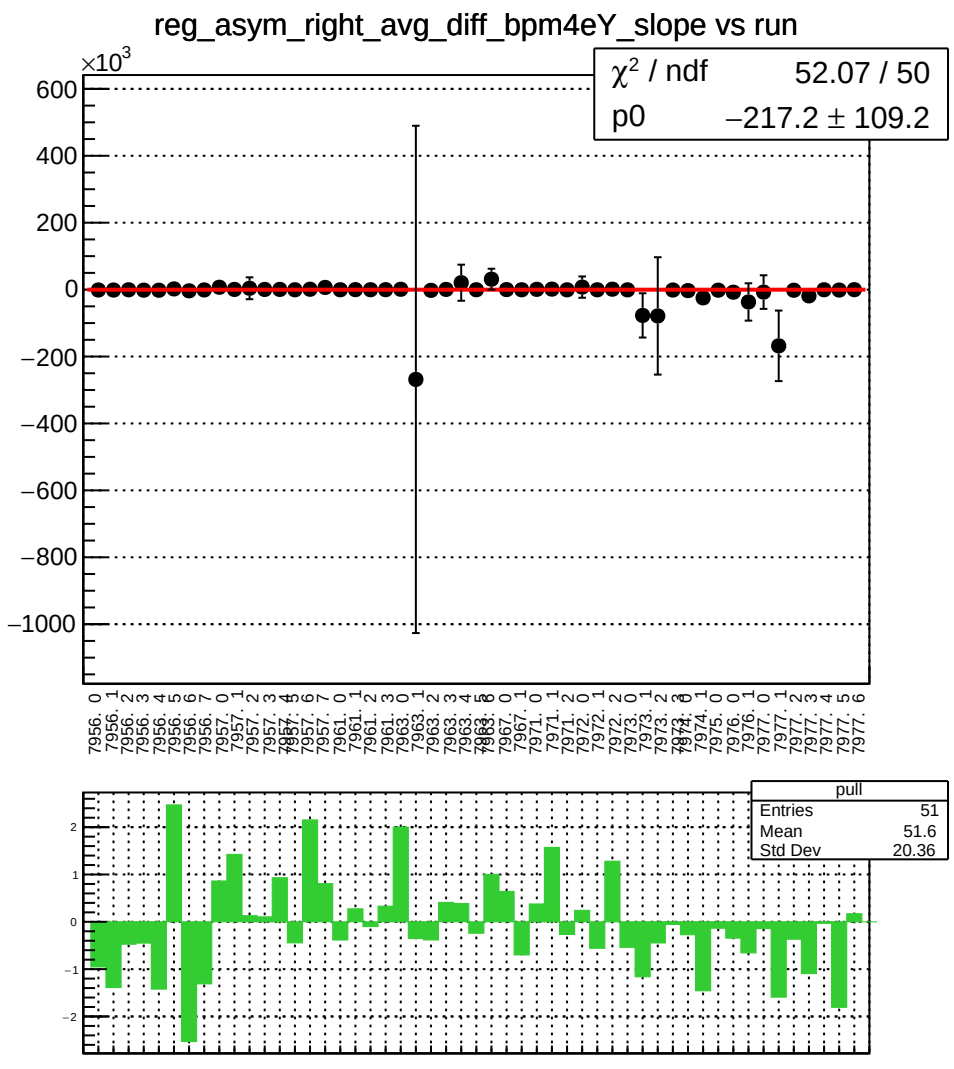

pull1D
Entries 51
Mean −0.04893
Std Dev 0.8421

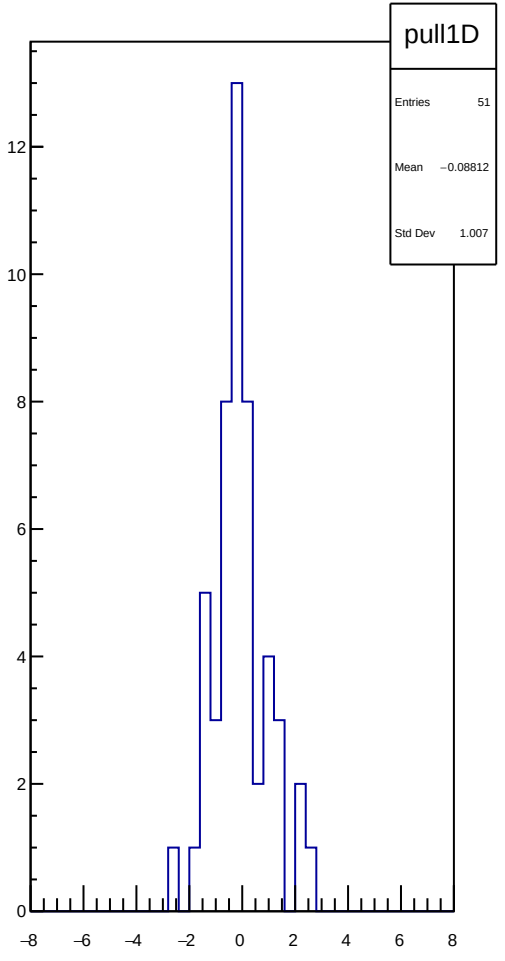

reg_asym_right_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 52.24 / 50
p0 204.1 ± 95.37
pull
Entries 51
Mean 48.34
Std Dev 18.59

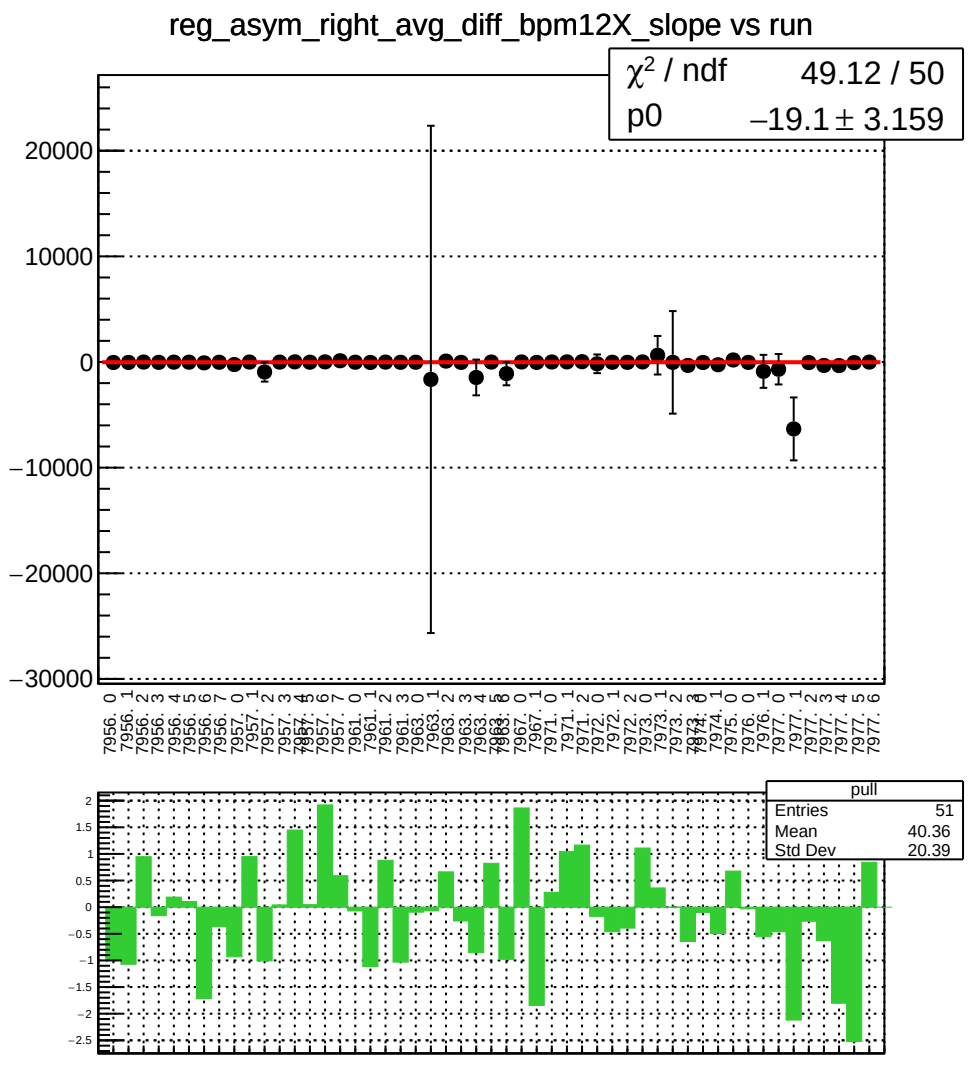

pull1D
Entries 51
Mean 0.1122
Std Dev 1.006

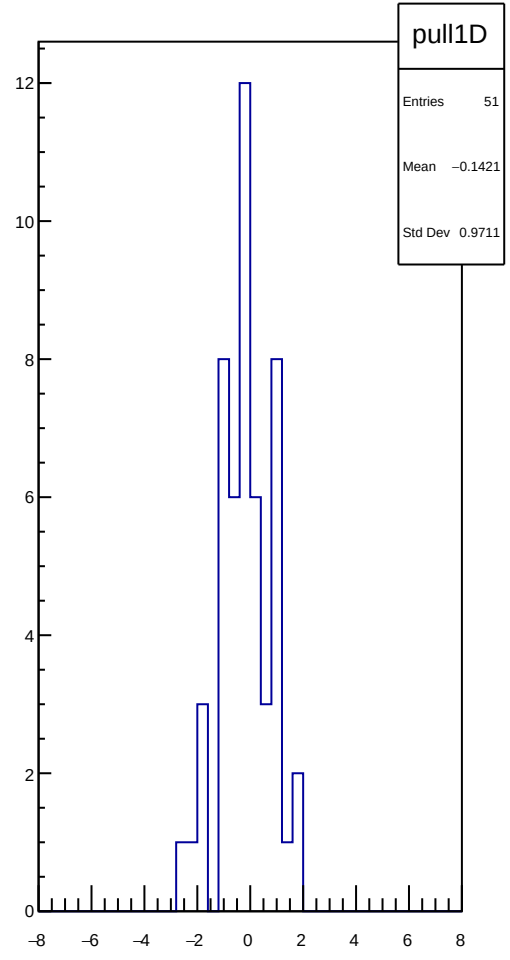

reg_asym_right_avg_diff_bpm4eX_slope vs run
×10^3
χ² / ndf 36.8 / 50
p0 18.31 ± 80.44
pull
Entries 51
Mean −9.858
Std Dev 7.439

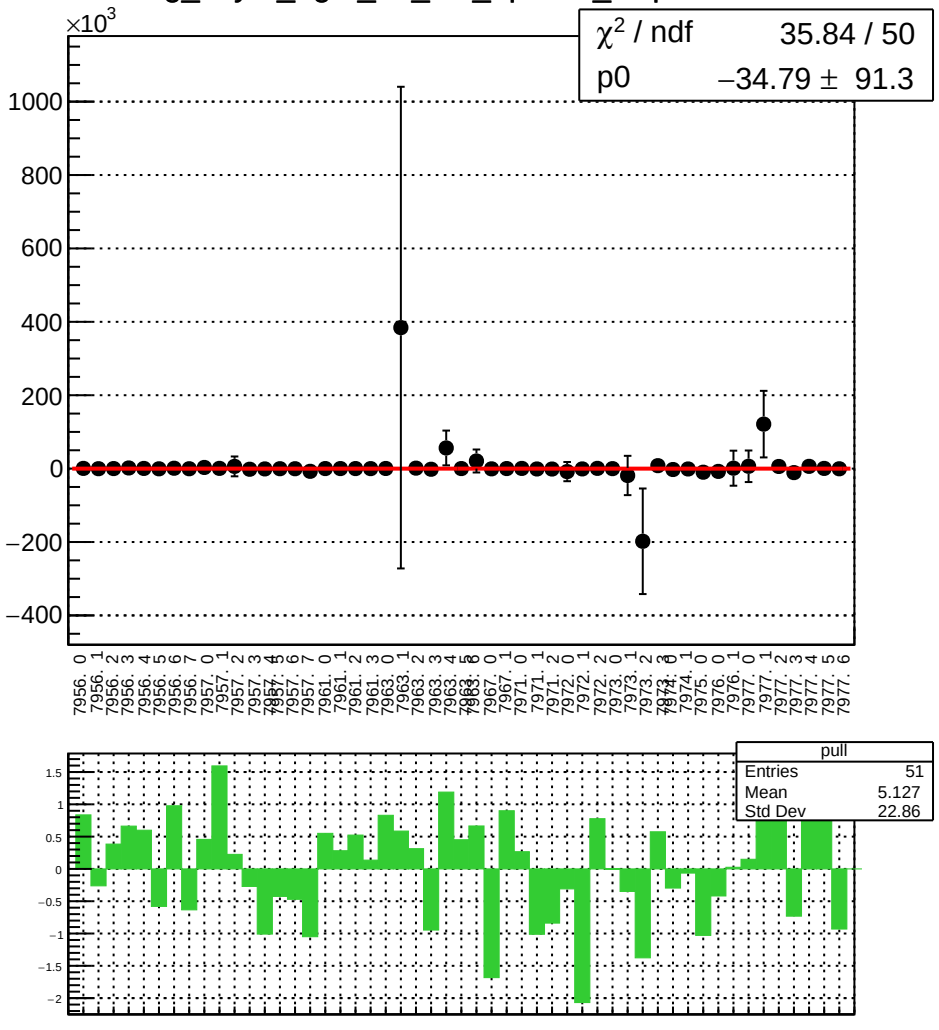

pull1D
Entries 51
Mean 0.03297
Std Dev 0.8488

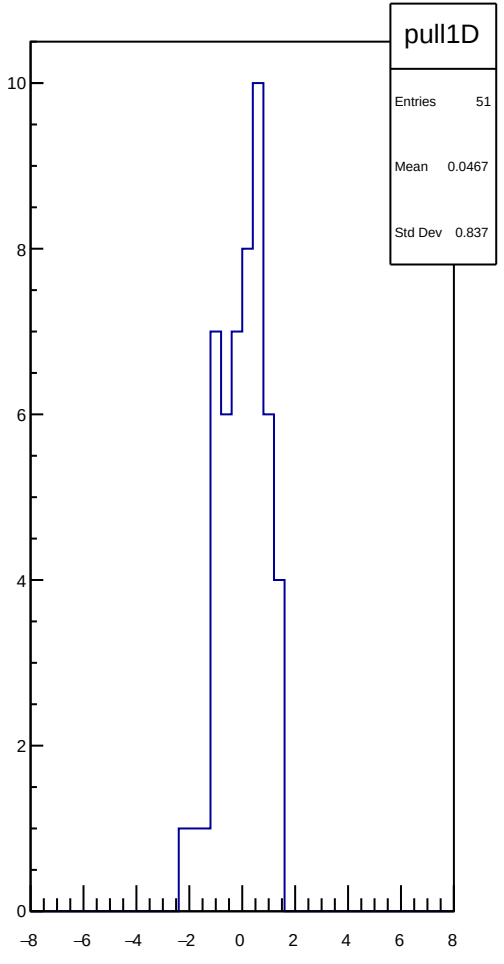

reg_asym_right_avg_diff_bpm4eY_slope vs run
×10^3
χ² / ndf 52.07 / 50
p0 −217.2 ± 109.2
pull
Entries 51
Mean 51.6
Std Dev 20.36

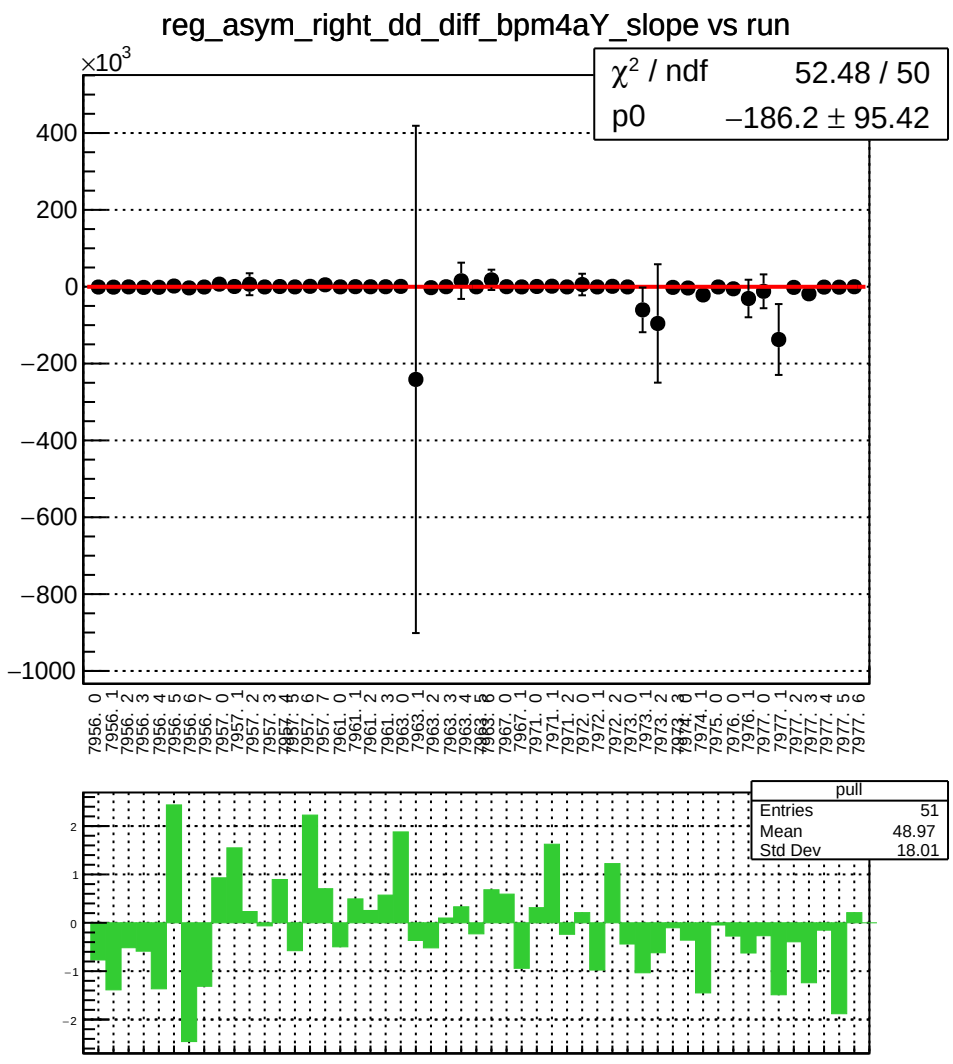

pull1D
Entries 51
Mean −0.08812
Std Dev 1.007

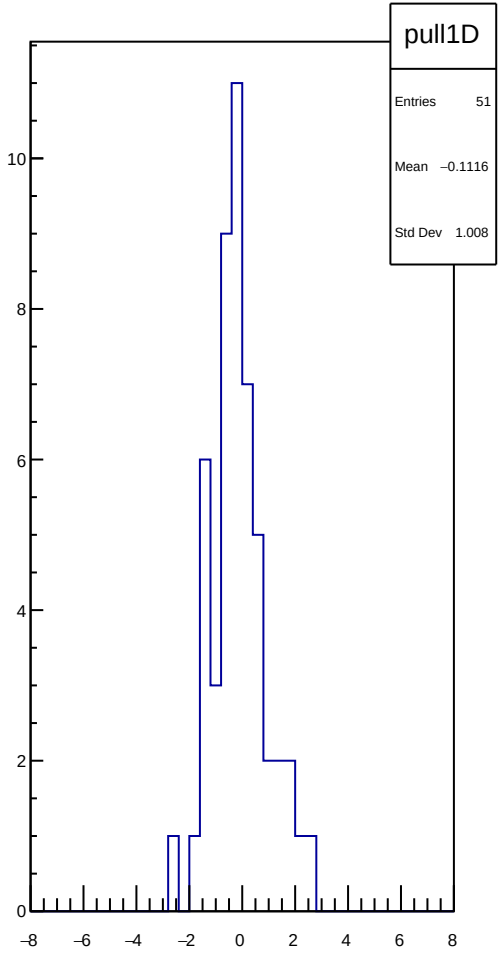

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 49.12 / 50
p0 −19.1 ± 3.159
pull
Entries 51
Mean 40.36
Std Dev 20.39

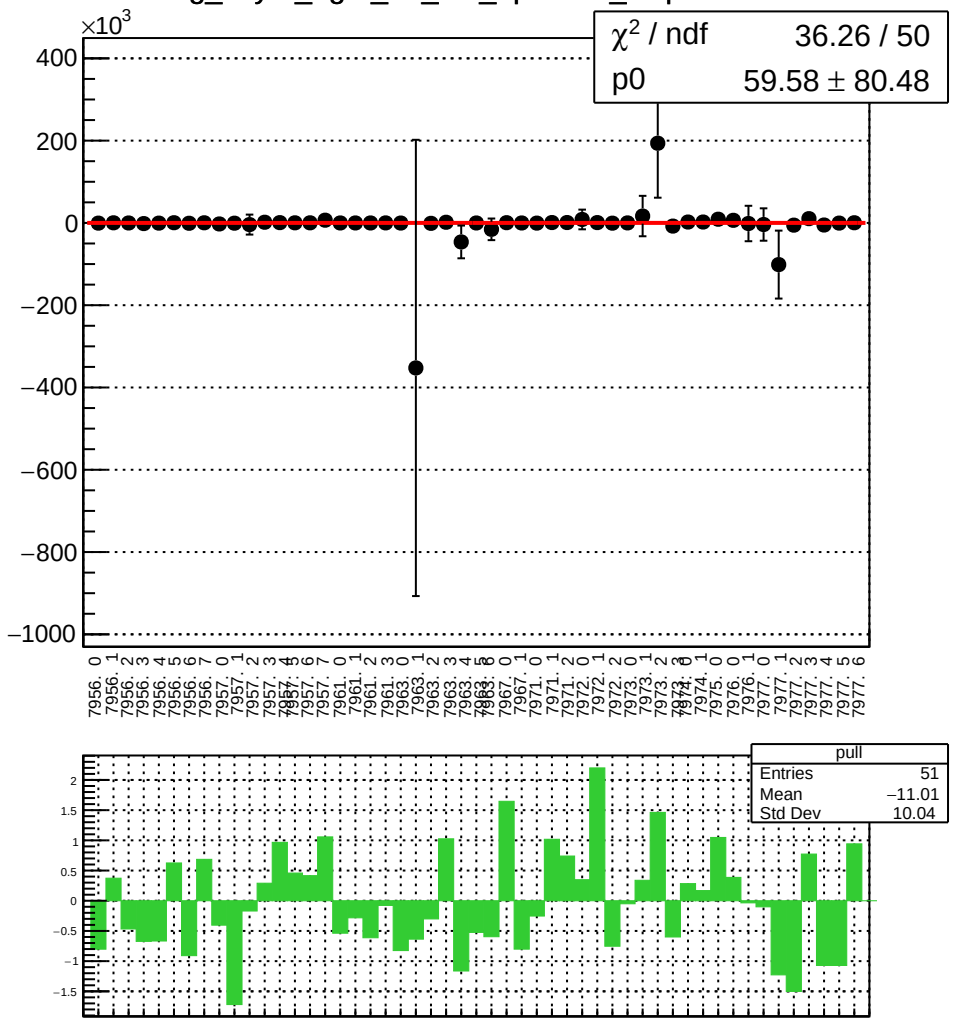

pull1D
Entries 51
Mean −0.1421
Std Dev 0.9711

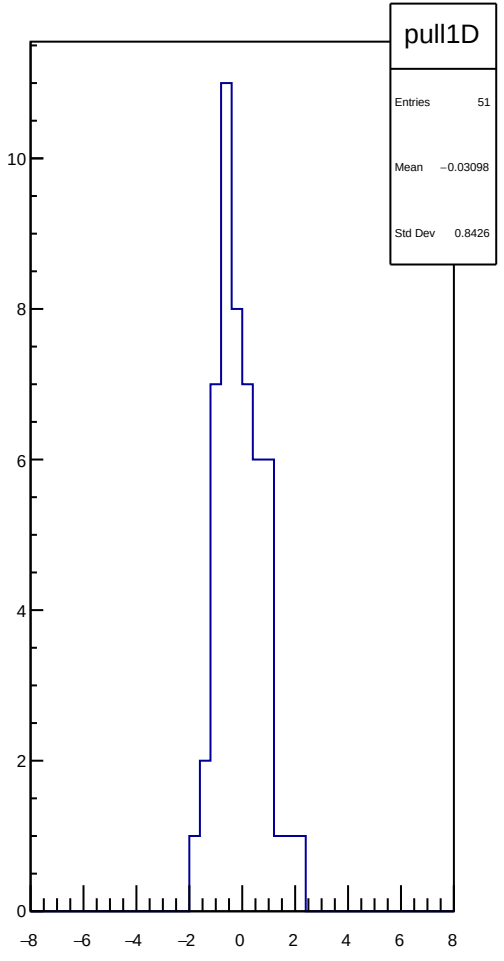

reg_asym_right_dd_diff_bpm1X_slope vs run
×10^3
χ² / ndf 35.84 / 50
p0 −34.79 ± 91.3
1000
800
600
400
200
0
−200
−400
pull
Entries 51
Mean 5.127
Std Dev 22.86
1.5
1
0.5
0
−0.5
−1
−1.5
−2

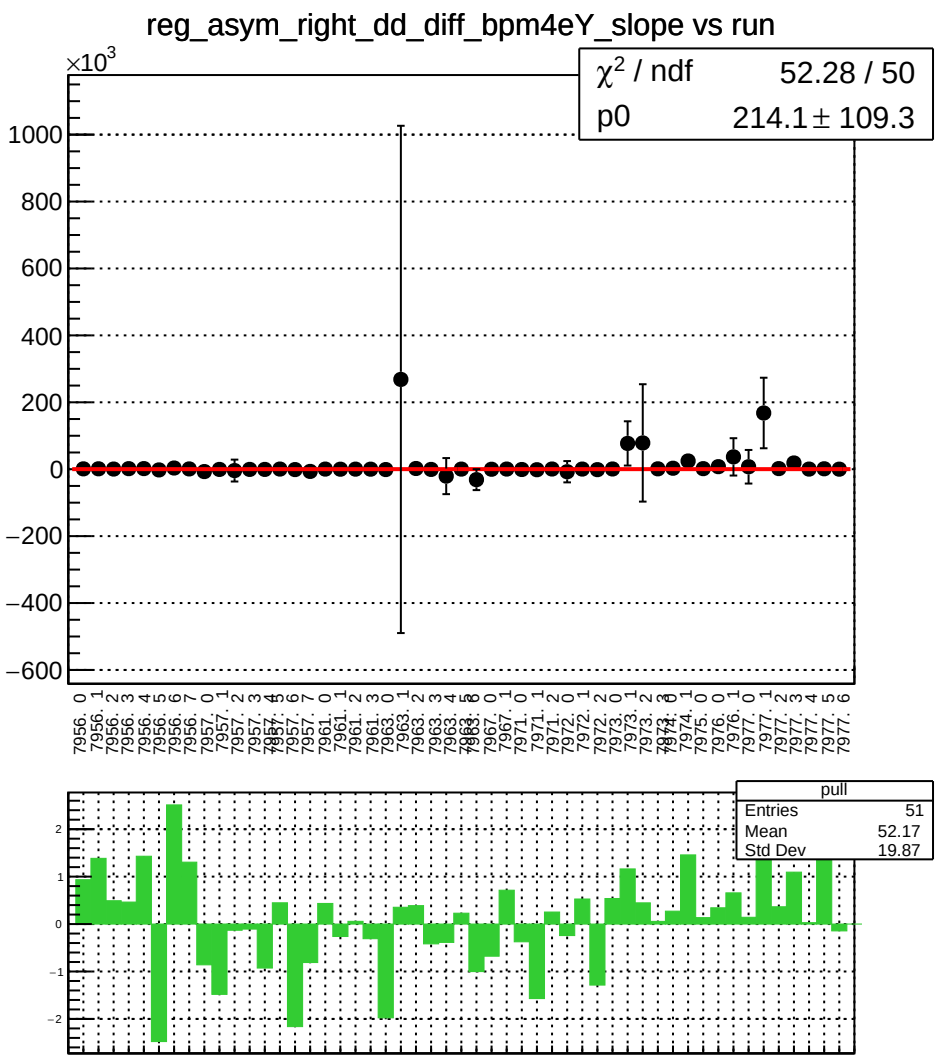

pull1D
Entries 51
Mean 0.0467
Std Dev 0.837
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

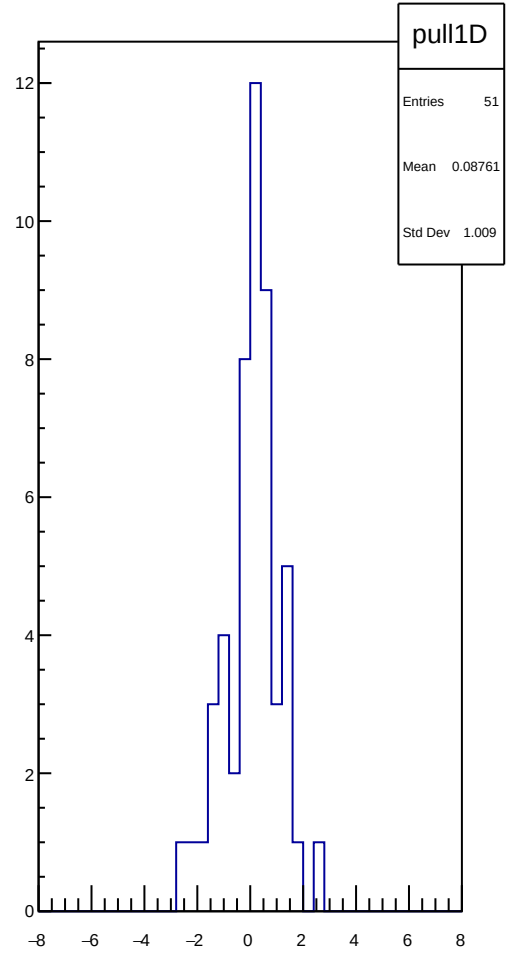

reg_asym_right_dd_diff_bpm4aY_slope vs run
×10^3
χ² / ndf 52.48 / 50
p0 −186.2 ± 95.42
pull
Entries 51
Mean 48.97
Std Dev 18.01

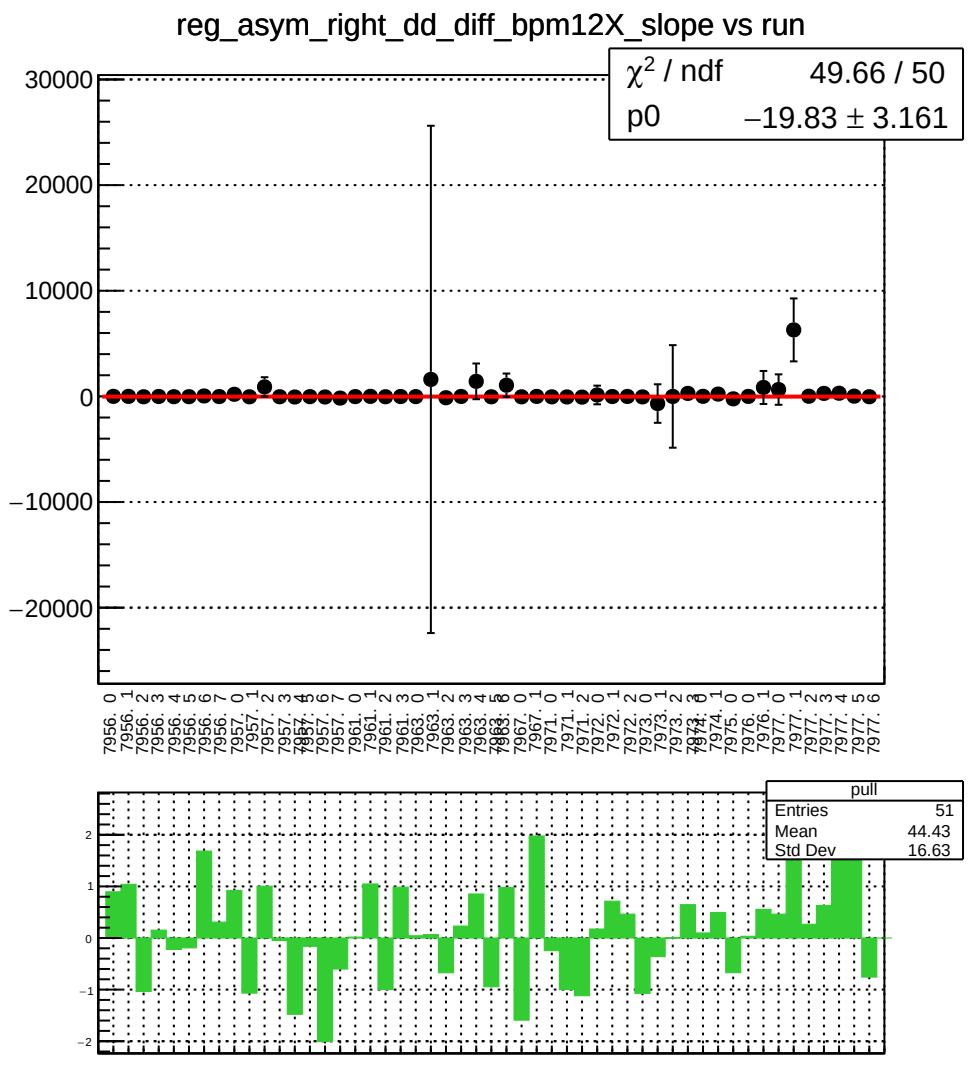

pull1D
Entries 51
Mean −0.1116
Std Dev 1.008

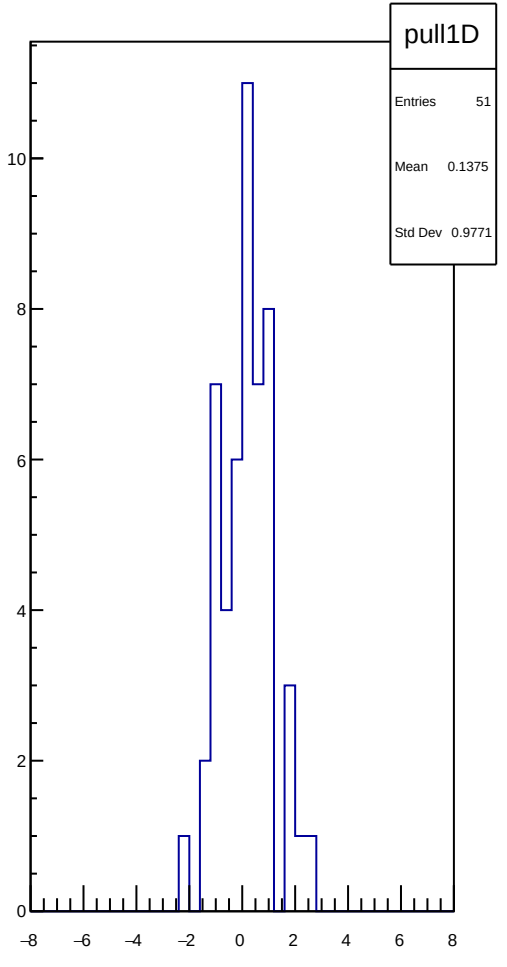

reg_asym_right_dd_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 36.26 / 50
p0 59.58 ± 80.48
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 51
Mean −11.01
Std Dev 10.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

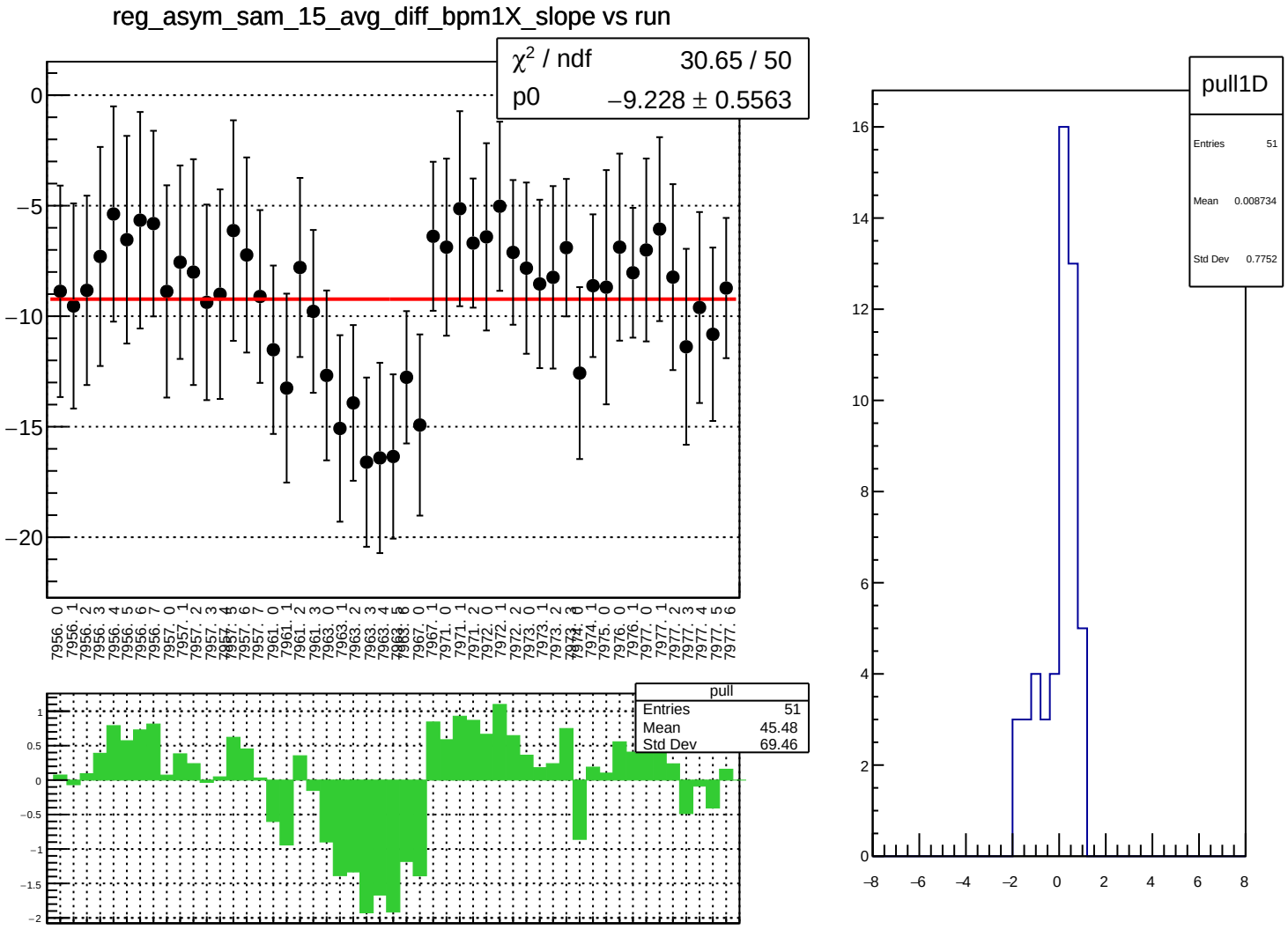

pull1D
Entries 51
Mean −0.03098
Std Dev 0.8426
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

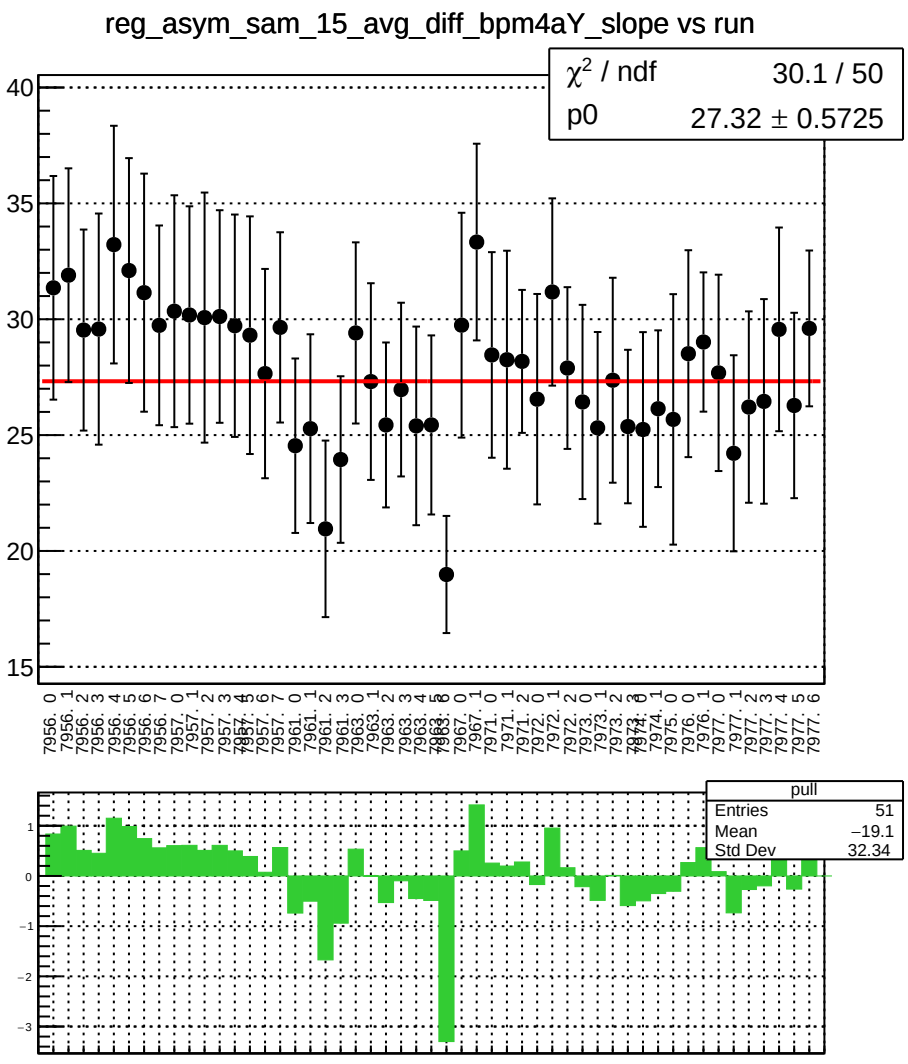

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.28 / 50
p0 214.1 ± 109.3
pull
Entries 51
Mean 52.17
Std Dev 19.87

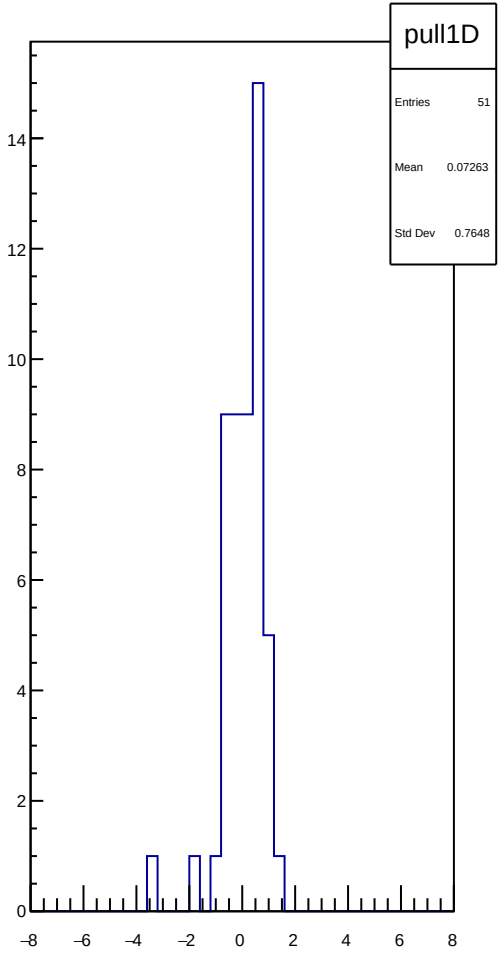

pull1D
Entries 51
Mean 0.08761
Std Dev 1.009

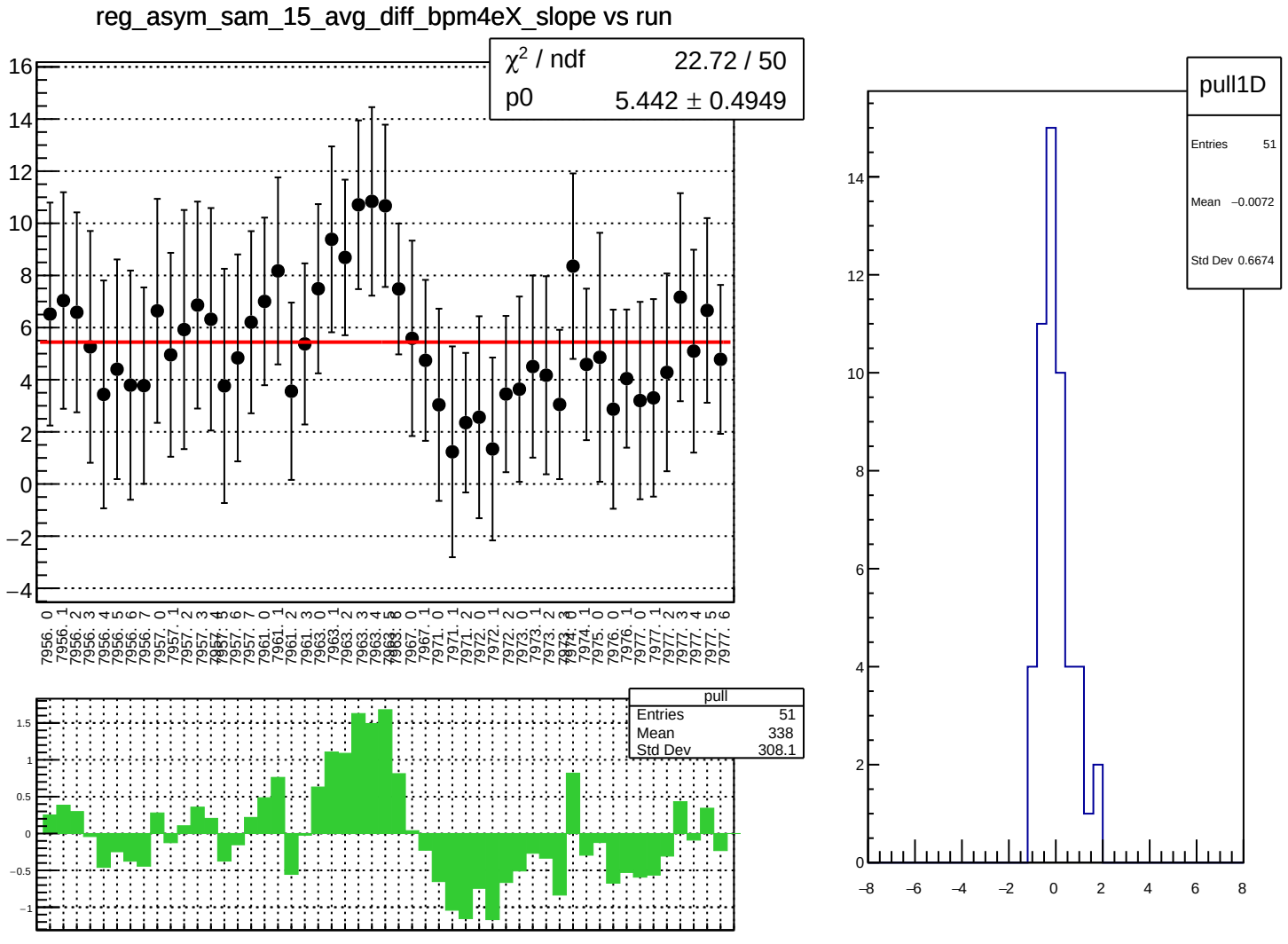

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 49.66 / 50
p0 −19.83 ± 3.161
30000
20000
10000
0
−10000
−20000
pull
Entries 51
Mean 44.43
Std Dev 16.63
2
1
0
−1
−2

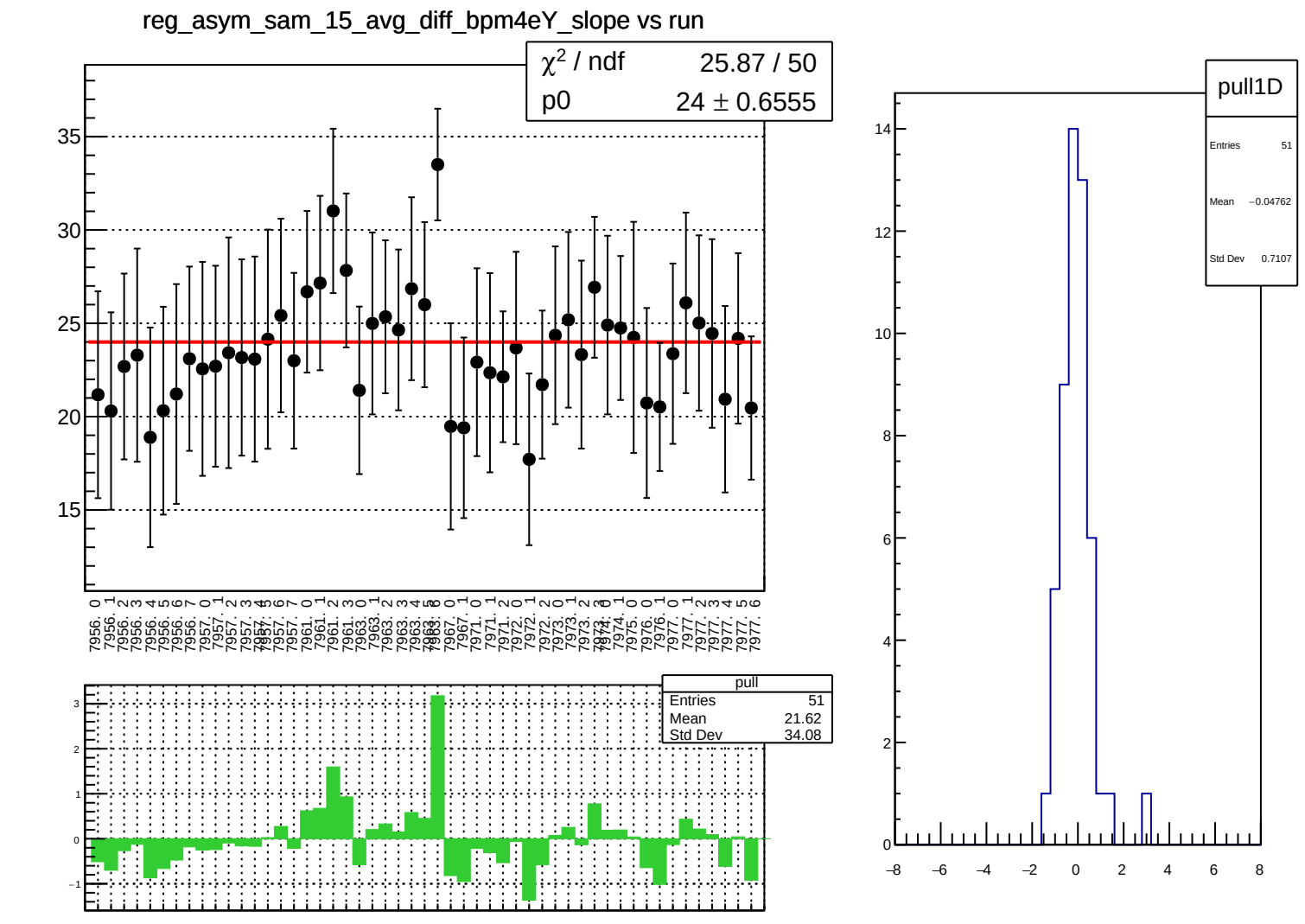

pull1D
Entries 51
Mean 0.1375
Std Dev 0.9771
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

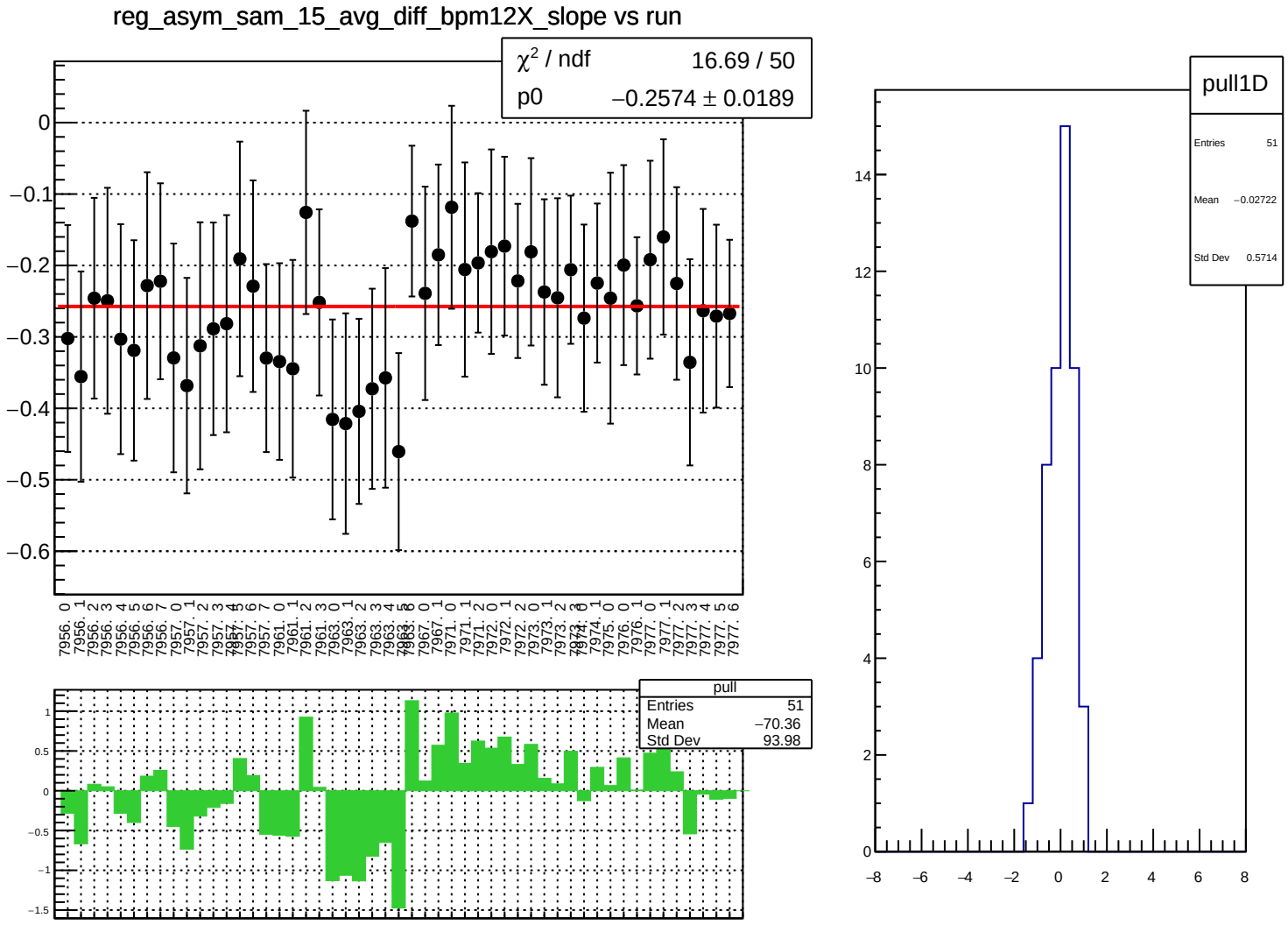

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 30.65 / 50
p0 −9.228 ± 0.5563
pull
Entries 51
Mean 45.48
Std Dev 69.46
pull1D
Entries 51
Mean 0.008734
Std Dev 0.7752

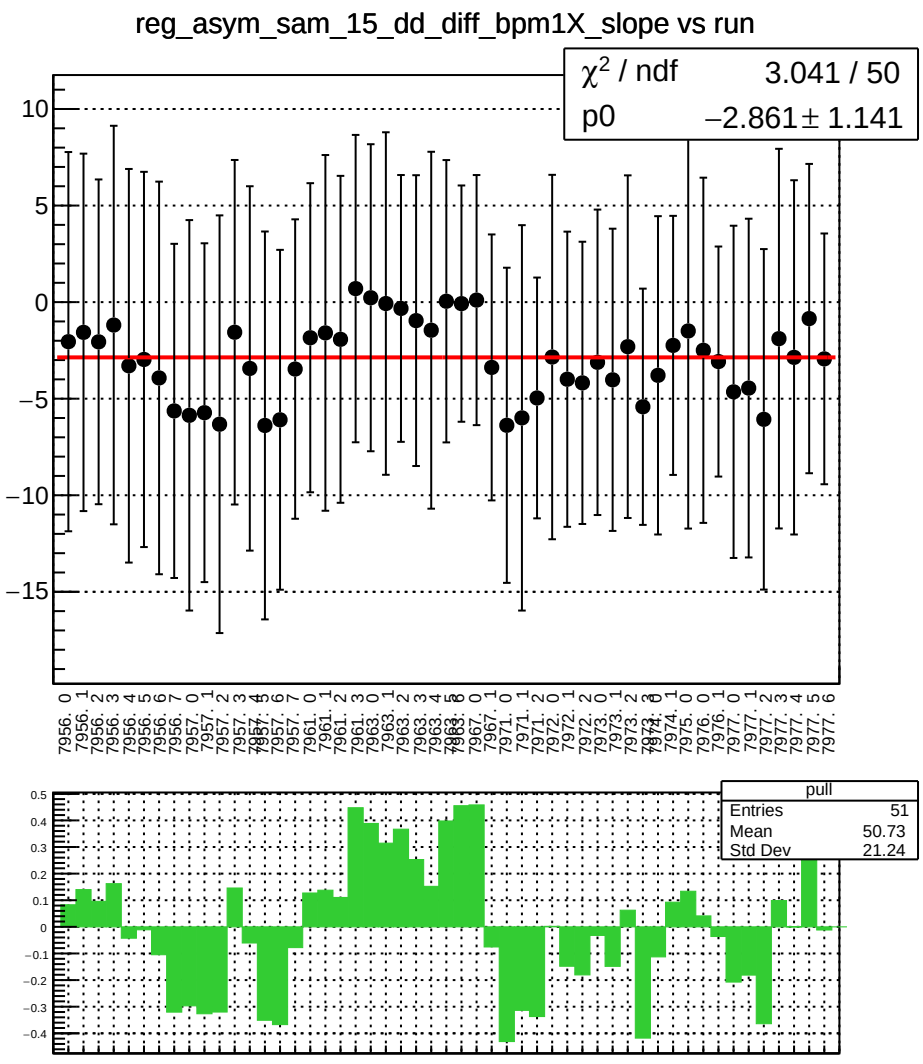

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.1 / 50
p0 27.32 ± 0.5725
pull
Entries 51
Mean −19.1
Std Dev 32.34

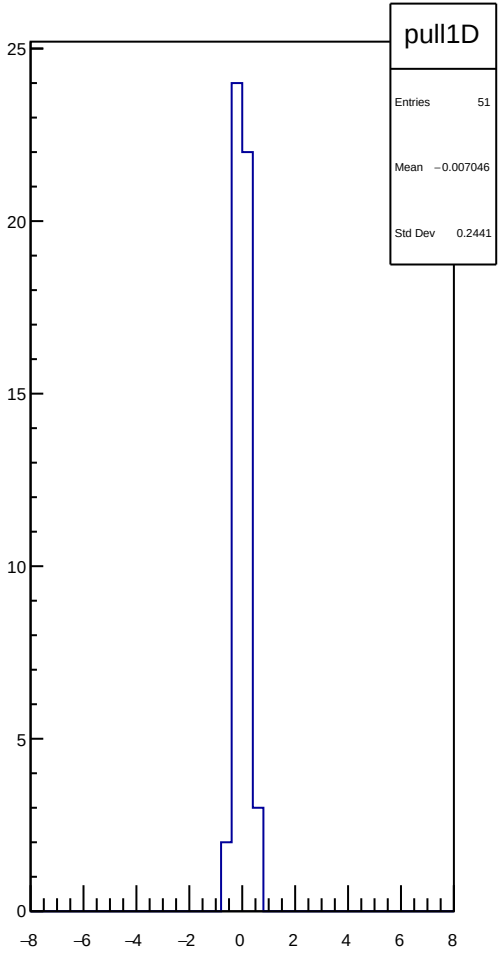

pull1D
Entries 51
Mean 0.07263
Std Dev 0.7648

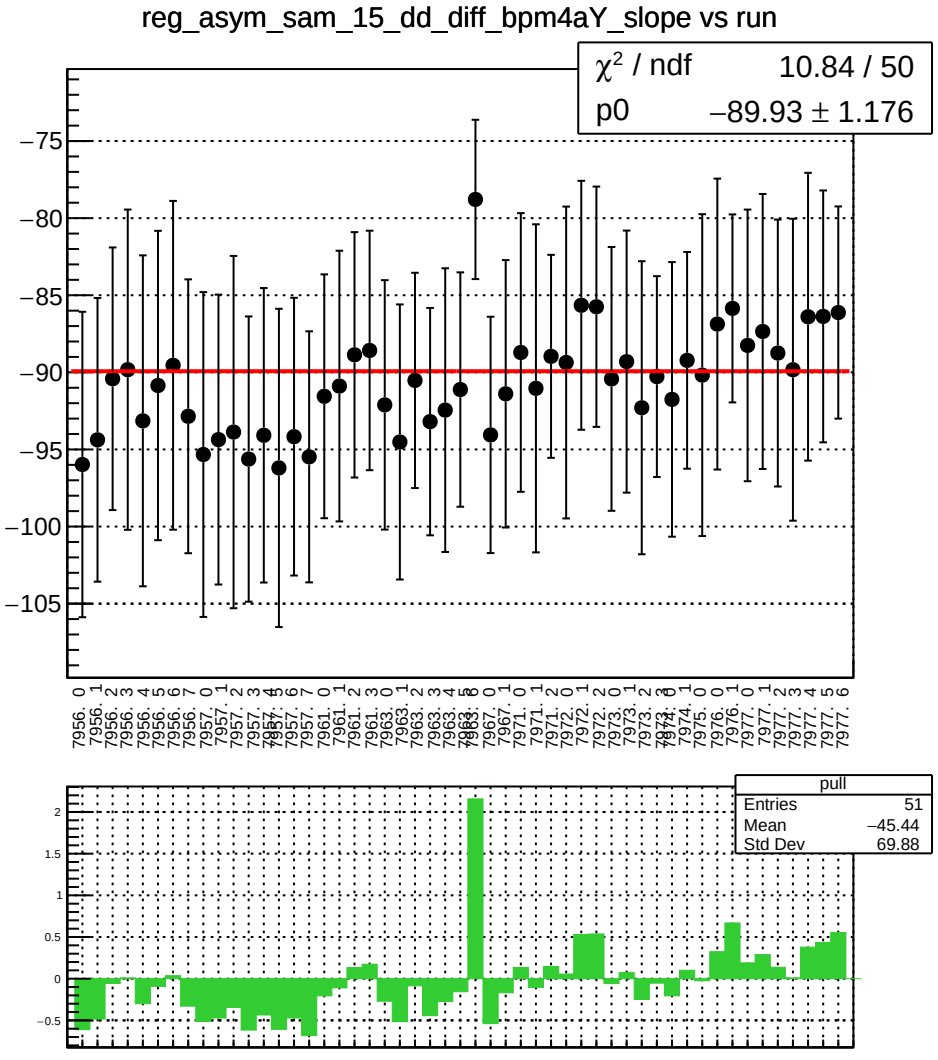

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.72 / 50
p0 5.442 ± 0.4949
pull
Entries 51
Mean 338
Std Dev 308.1
pull1D
Entries 51
Mean −0.0072
Std Dev 0.6674

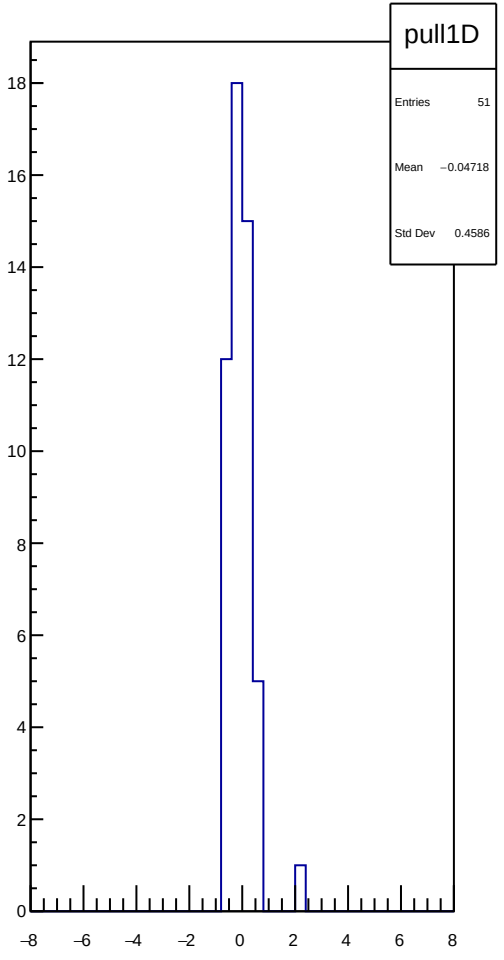

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.87 / 50
p0 24 ± 0.6555
pull
Entries 51
Mean 21.62
Std Dev 34.08
pull1D
Entries 51
Mean −0.04762
Std Dev 0.7107

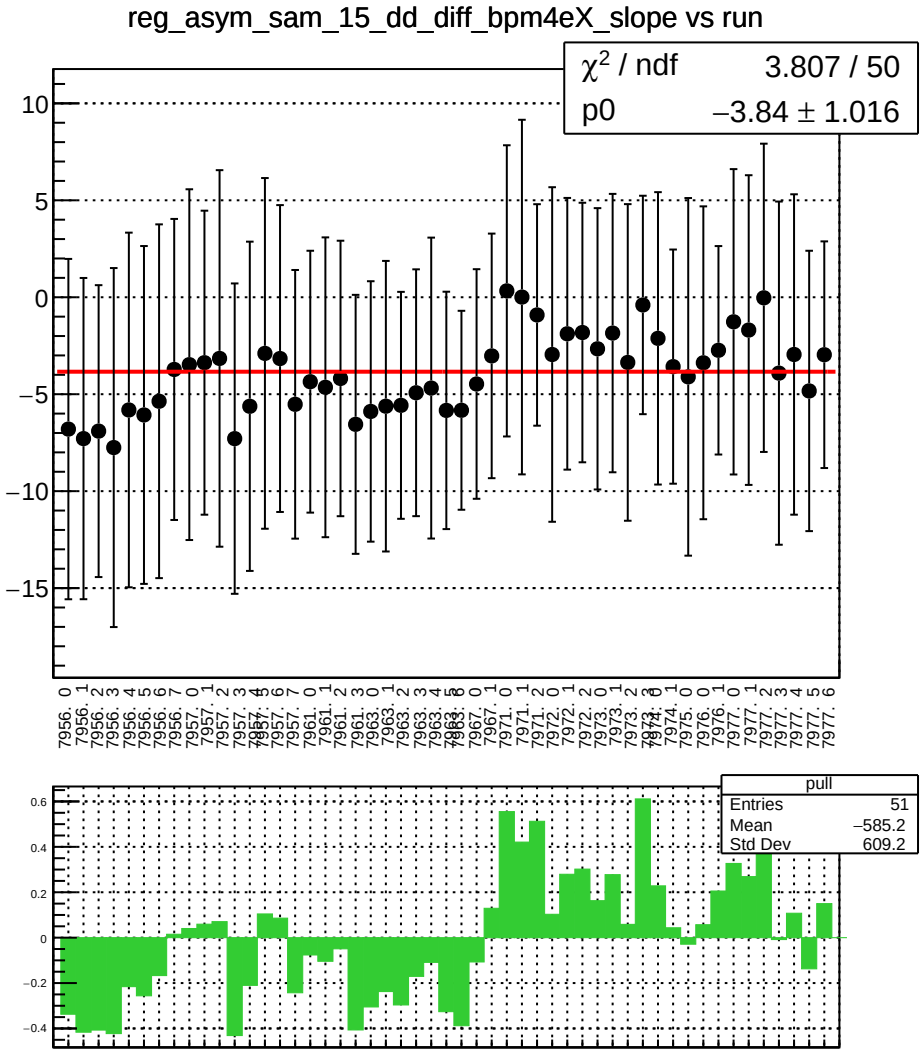

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 16.69 / 50
p0 −0.2574 ± 0.0189
pull
Entries 51
Mean −70.36
Std Dev 93.98
pull1D
Entries 51
Mean −0.02722
Std Dev 0.5714

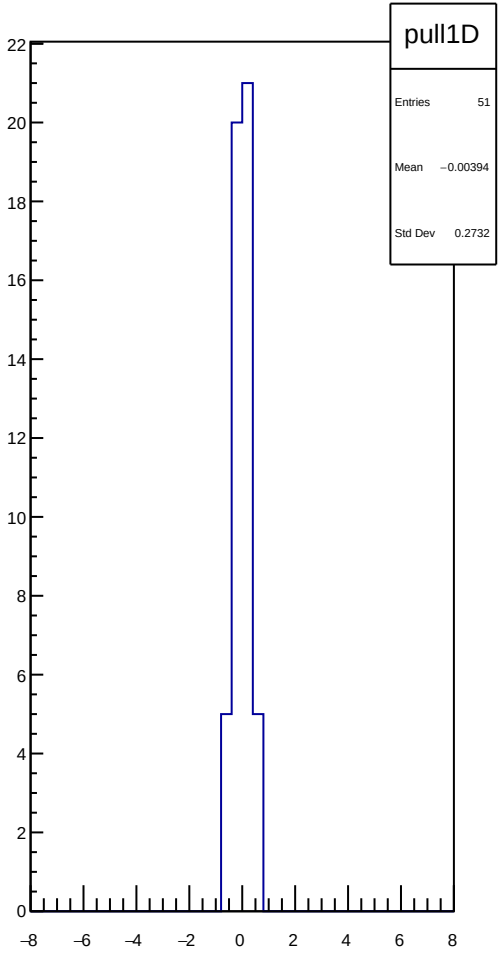

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.041 / 50
p0 −2.861 ± 1.141
pull
Entries 51
Mean 50.73
Std Dev 21.24

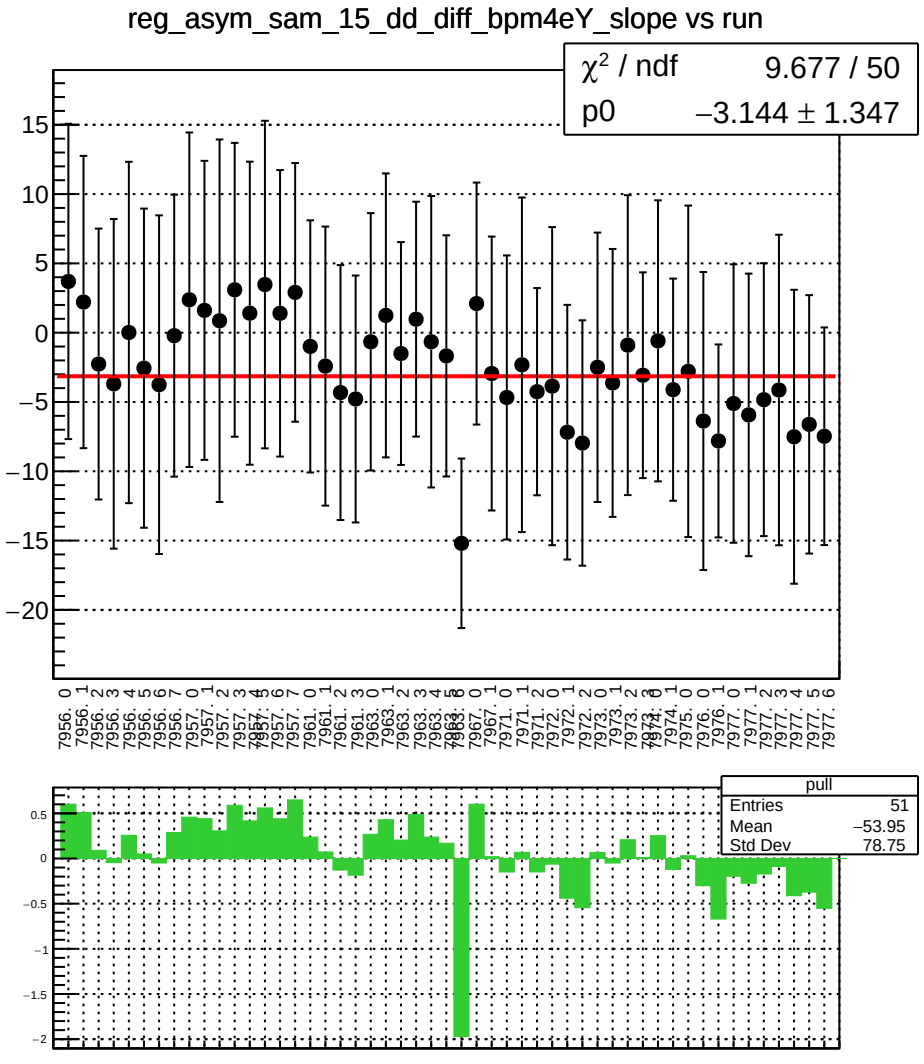

pull1D
Entries 51
Mean −0.007046
Std Dev 0.2441

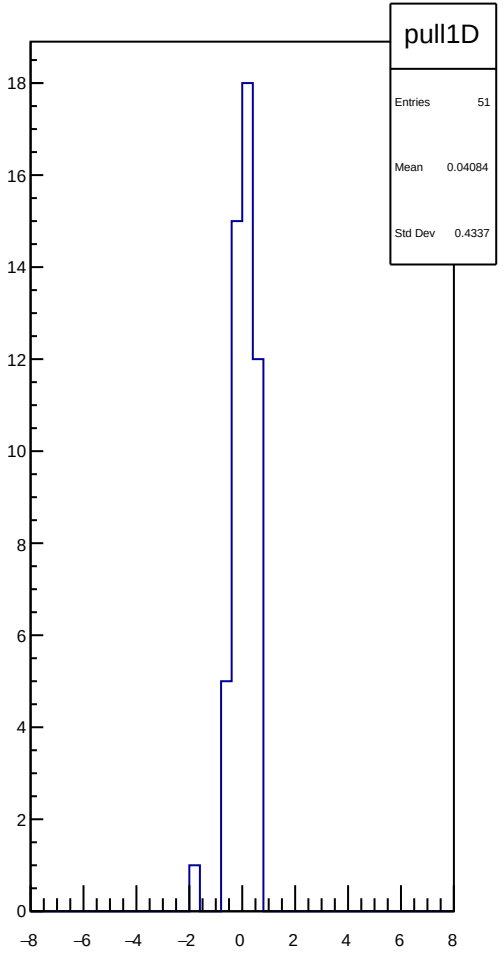

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.84 / 50
p0 −89.93 ± 1.176
pull
Entries 51
Mean −45.44
Std Dev 69.88

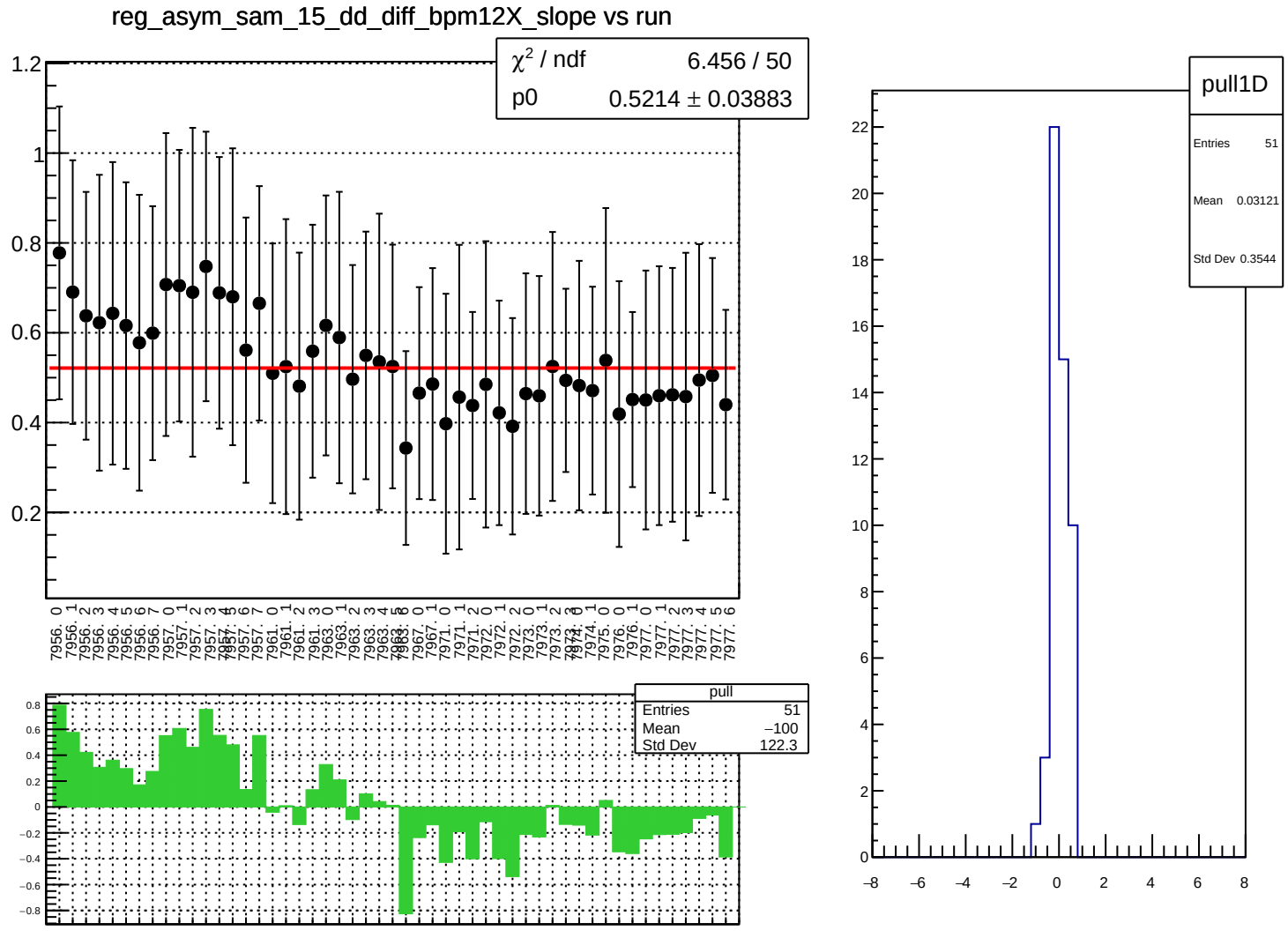

pull1D
Entries 51
Mean −0.04718
Std Dev 0.4586

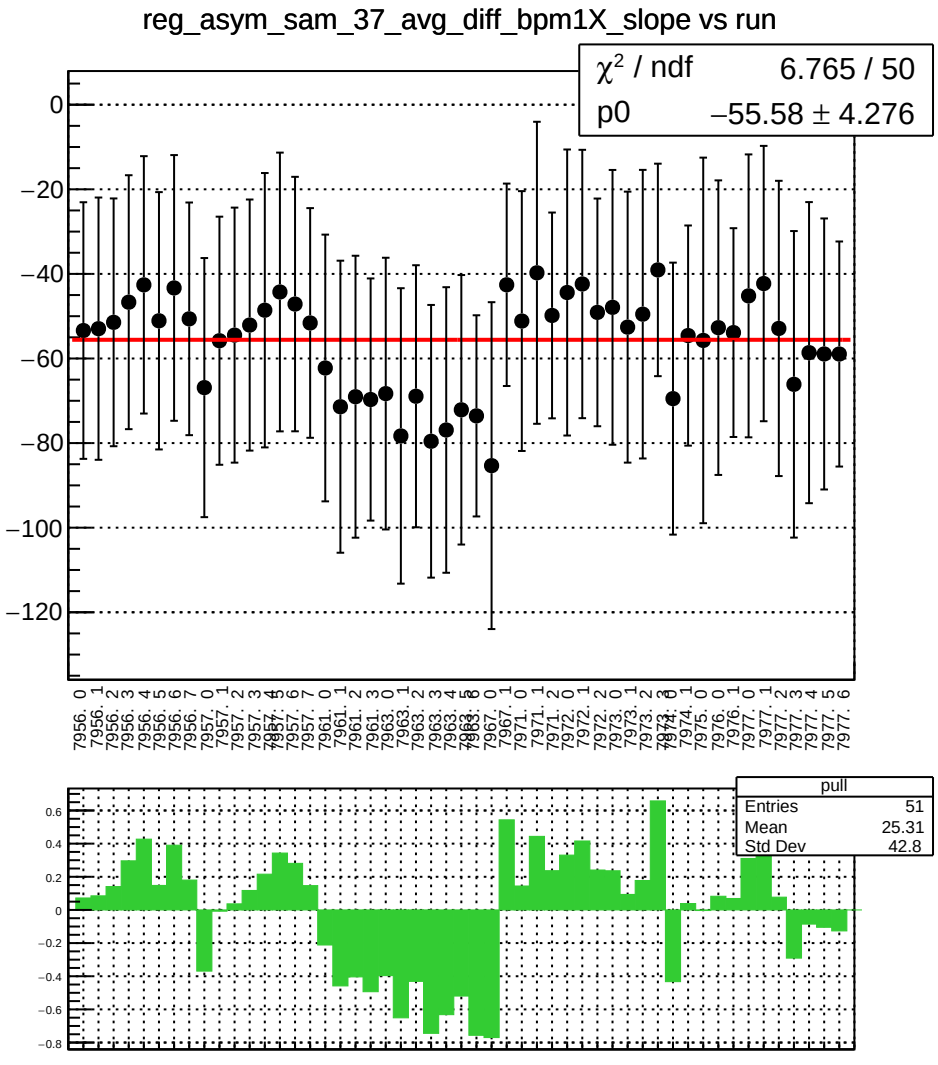

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.807 / 50
p0 −3.84 ± 1.016
pull
Entries 51
Mean −585.2
Std Dev 609.2

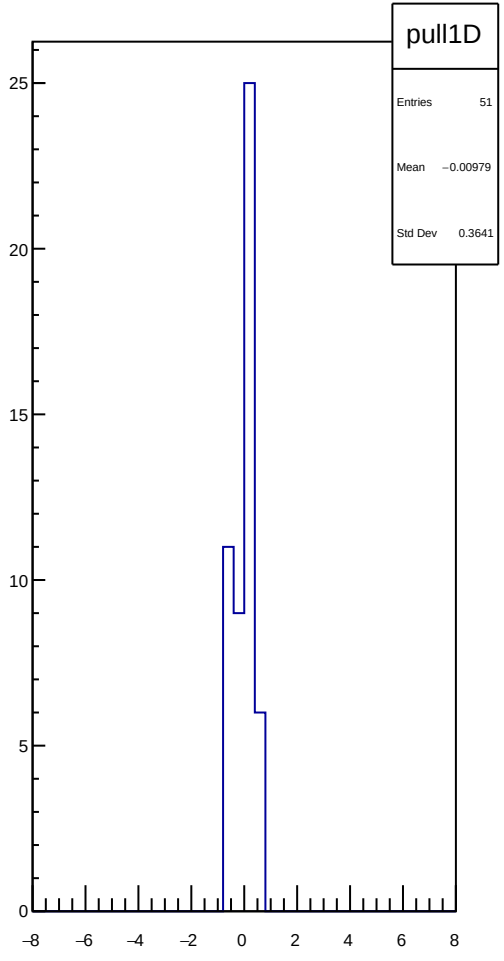

pull1D
Entries 51
Mean −0.00394
Std Dev 0.2732

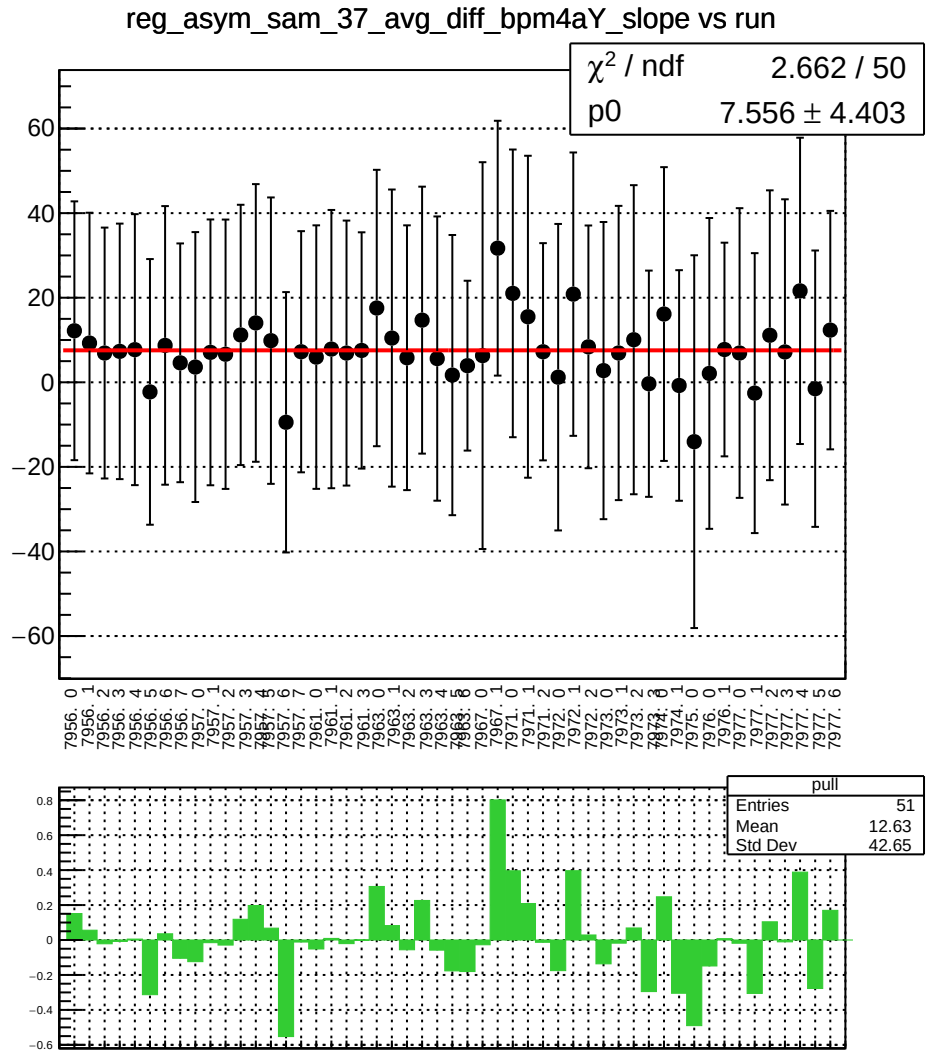

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.677 / 50
p0 −3.144 ± 1.347
pull
Entries 51
Mean −53.95
Std Dev 78.75

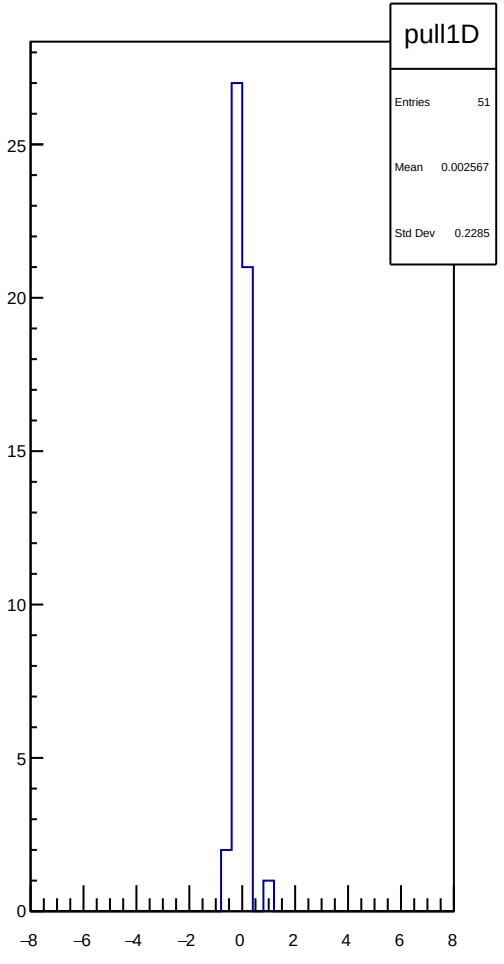

pull1D
Entries 51
Mean 0.04084
Std Dev 0.4337

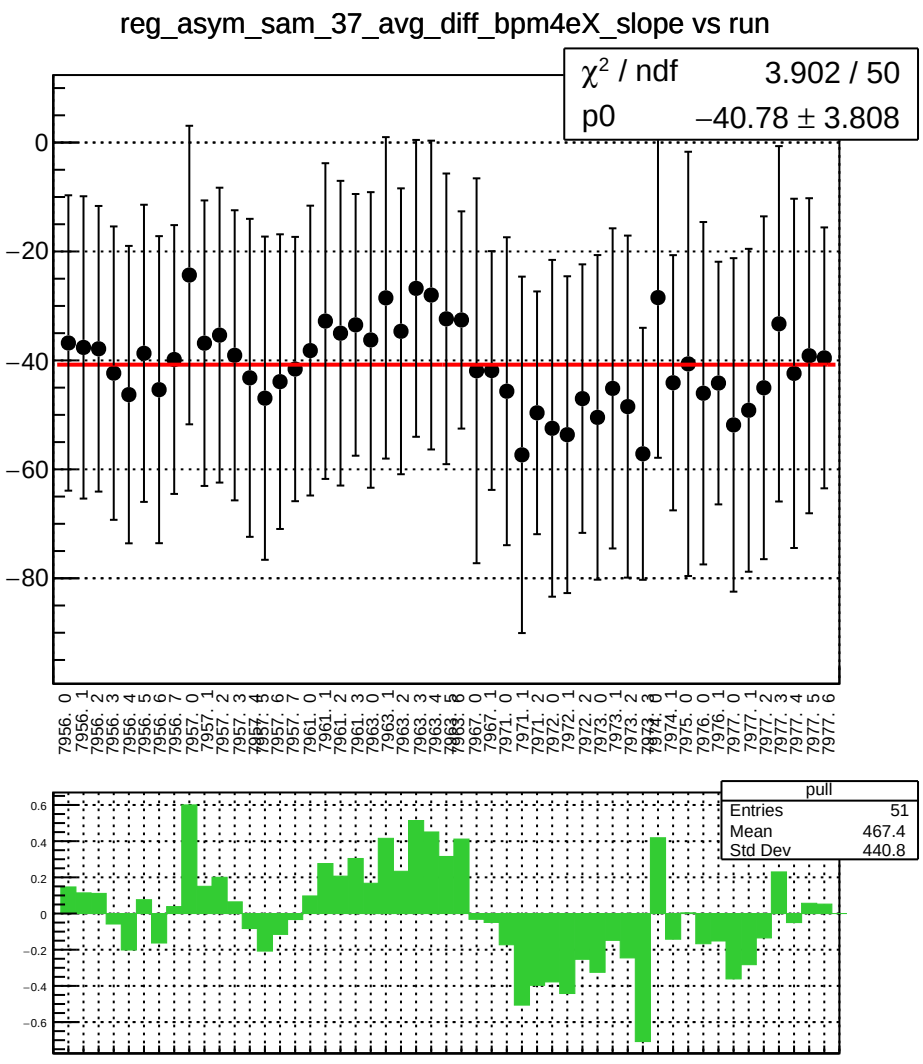

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 6.456 / 50
p0 0.5214 ± 0.03883
pull
Entries 51
Mean −100
Std Dev 122.3
pull1D
Entries 51
Mean 0.03121
Std Dev 0.3544

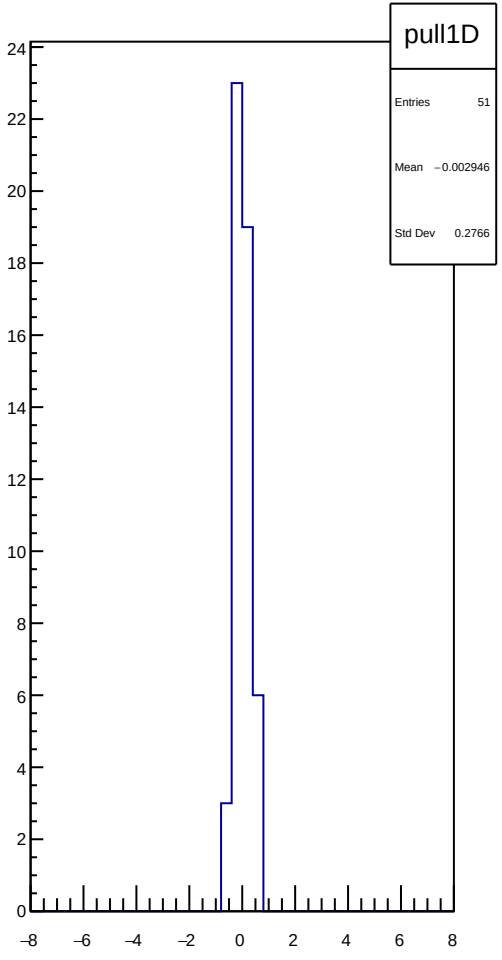

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 6.765 / 50
p0 −55.58 ± 4.276
pull
Entries 51
Mean 25.31
Std Dev 42.8

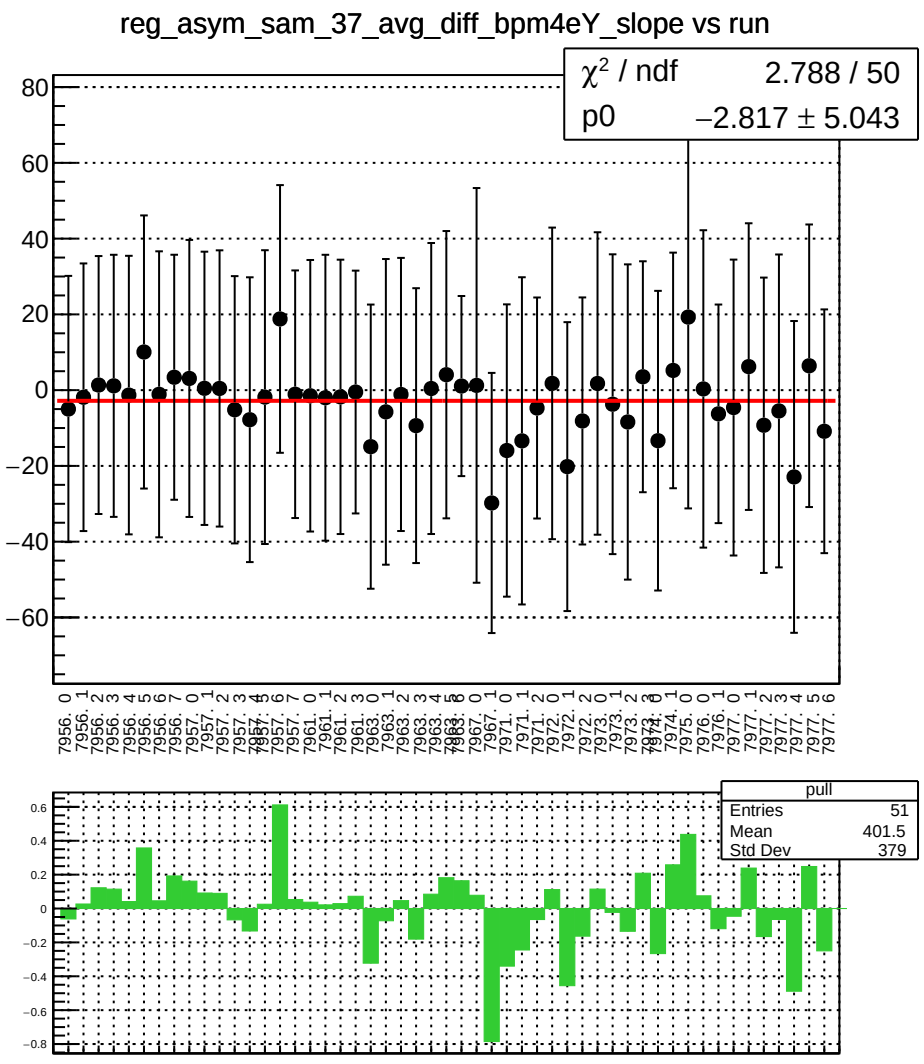

pull1D
Entries 51
Mean −0.00979
Std Dev 0.3641

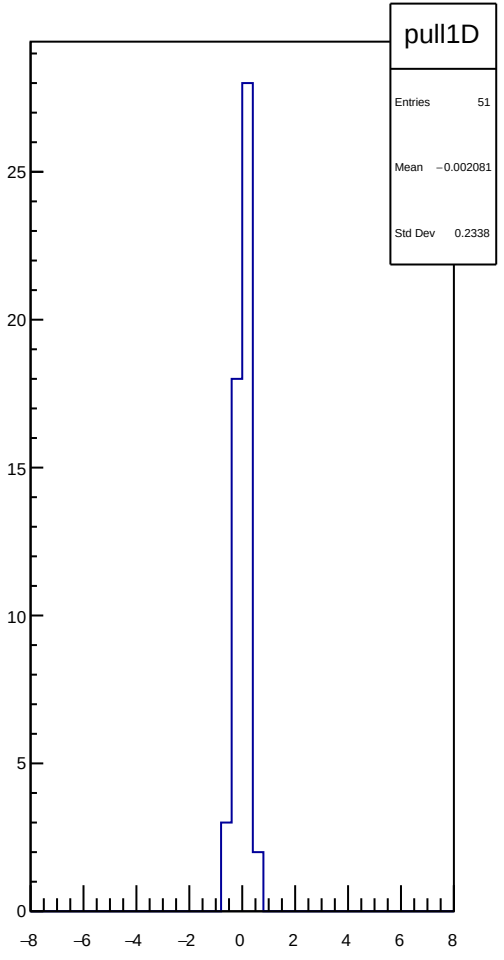

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.662 / 50
p0 7.556 ± 4.403
pull
Entries 51
Mean 12.63
Std Dev 42.65

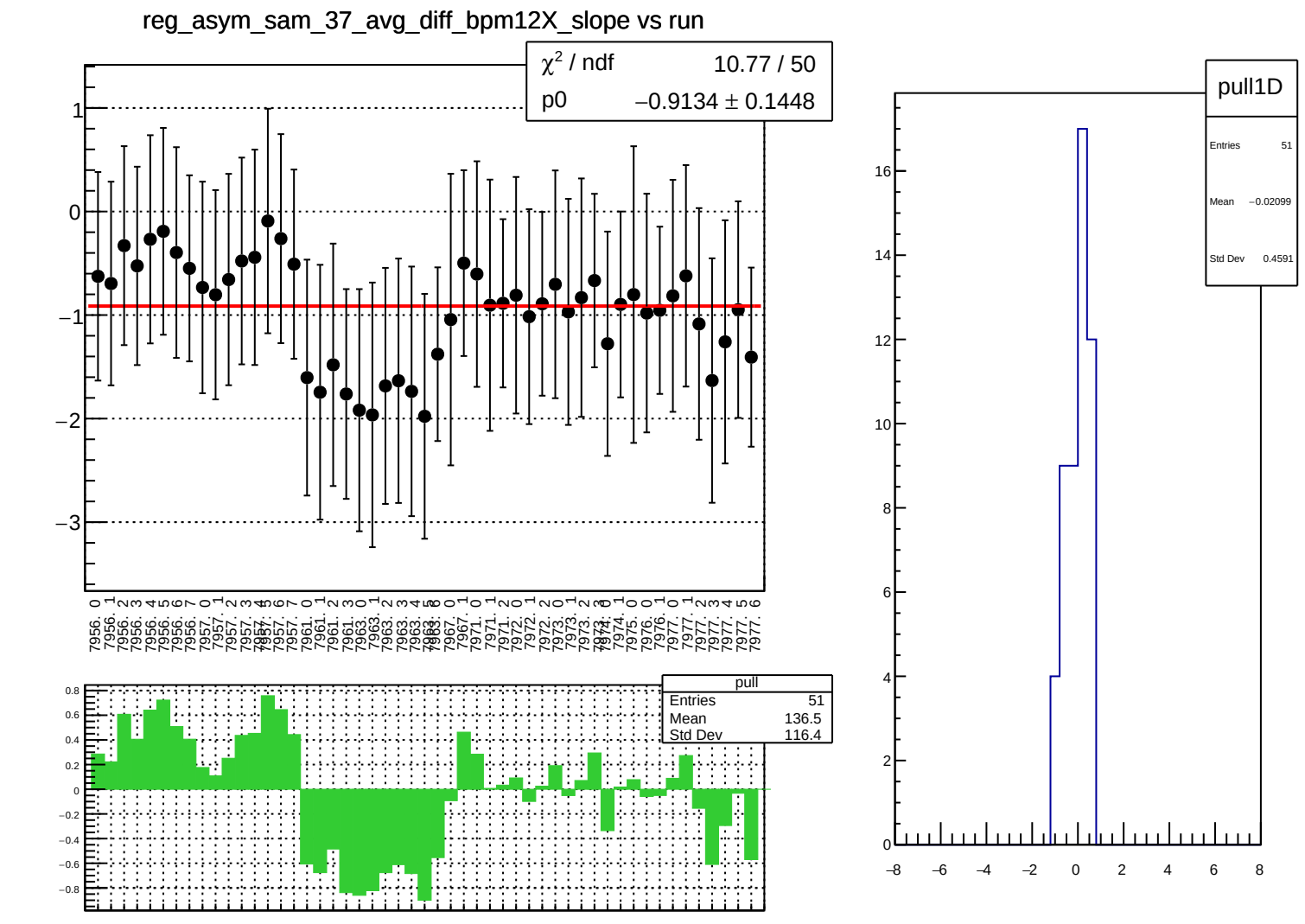

pull1D
Entries 51
Mean 0.002567
Std Dev 0.2285

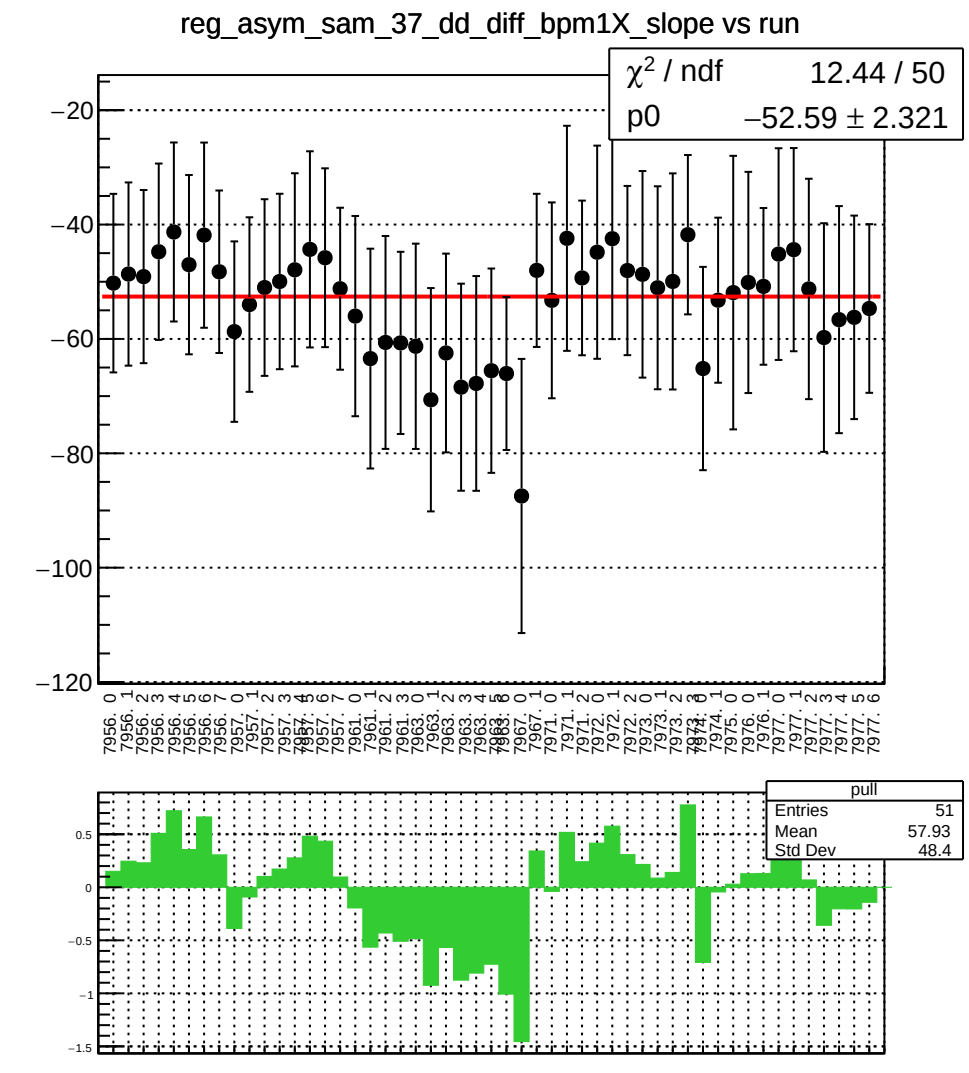

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.902 / 50
p0 −40.78 ± 3.808
pull
Entries 51
Mean 467.4
Std Dev 440.8

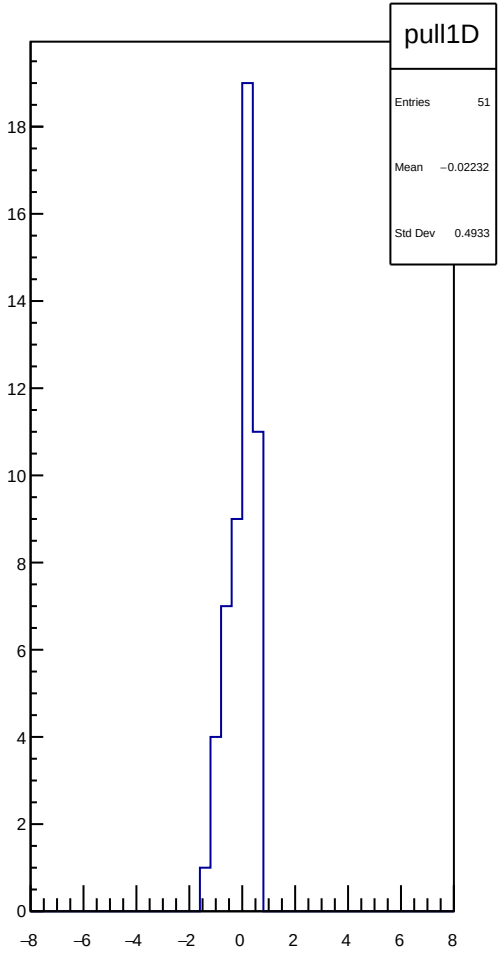

pull1D
Entries 51
Mean −0.002946
Std Dev 0.2766

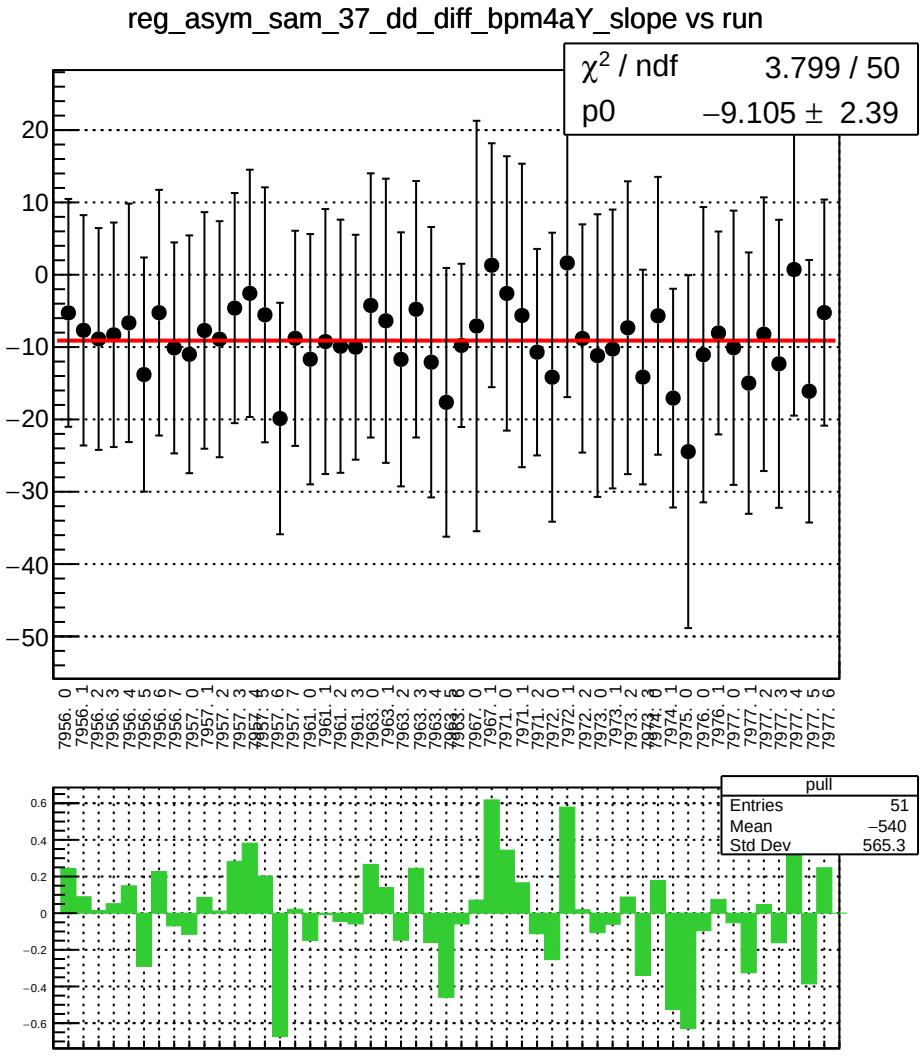

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.788 / 50
p0 −2.817 ± 5.043
pull
Entries 51
Mean 401.5
Std Dev 379

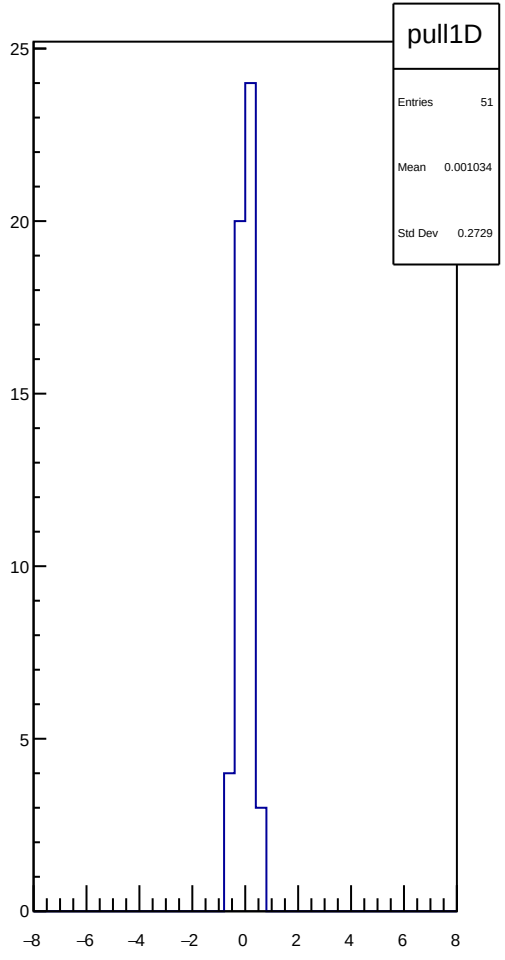

pull1D
Entries 51
Mean −0.002081
Std Dev 0.2338

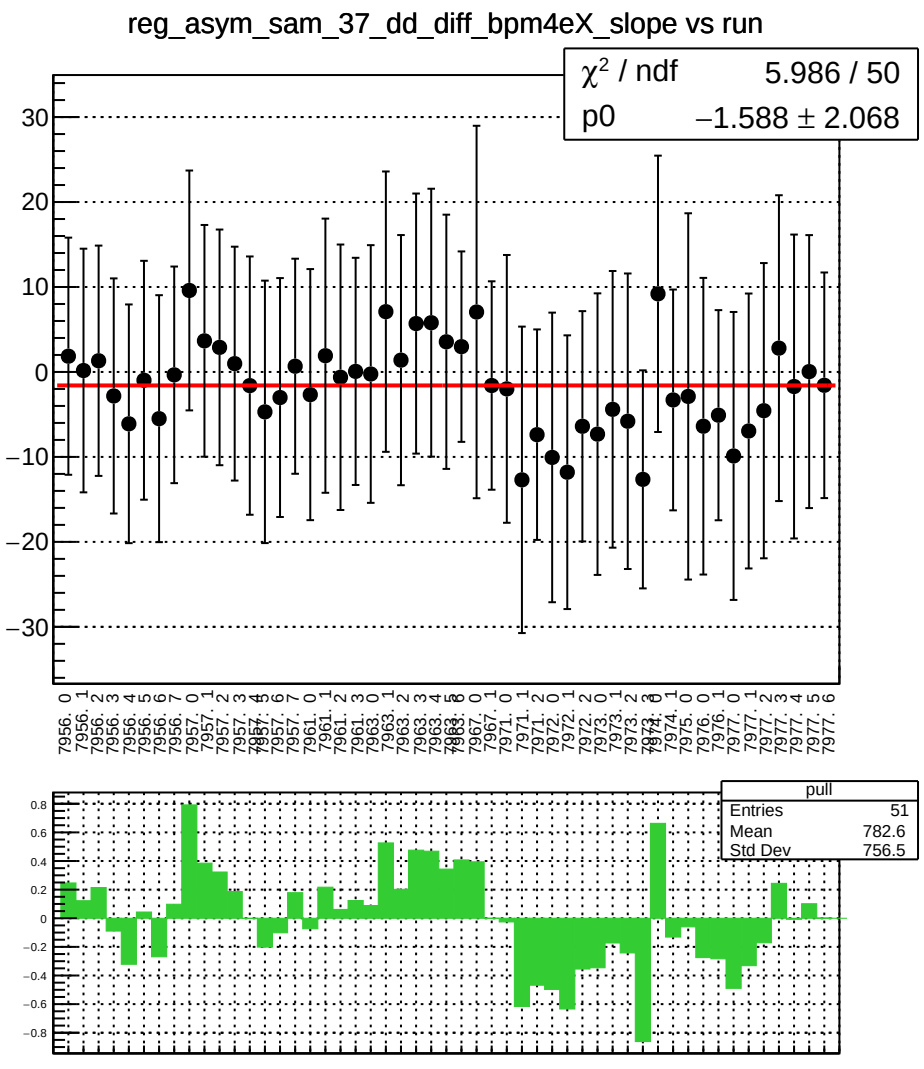

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 10.77 / 50
p0 −0.9134 ± 0.1448
pull
Entries 51
Mean 136.5
Std Dev 116.4
pull1D
Entries 51
Mean −0.02099
Std Dev 0.4591

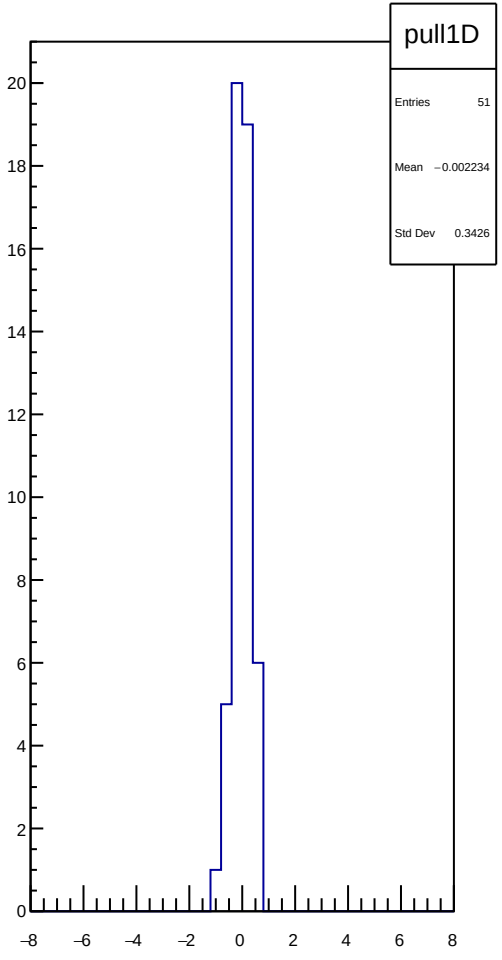

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 12.44 / 50
p0 −52.59 ± 2.321
pull
Entries 51
Mean 57.93
Std Dev 48.4

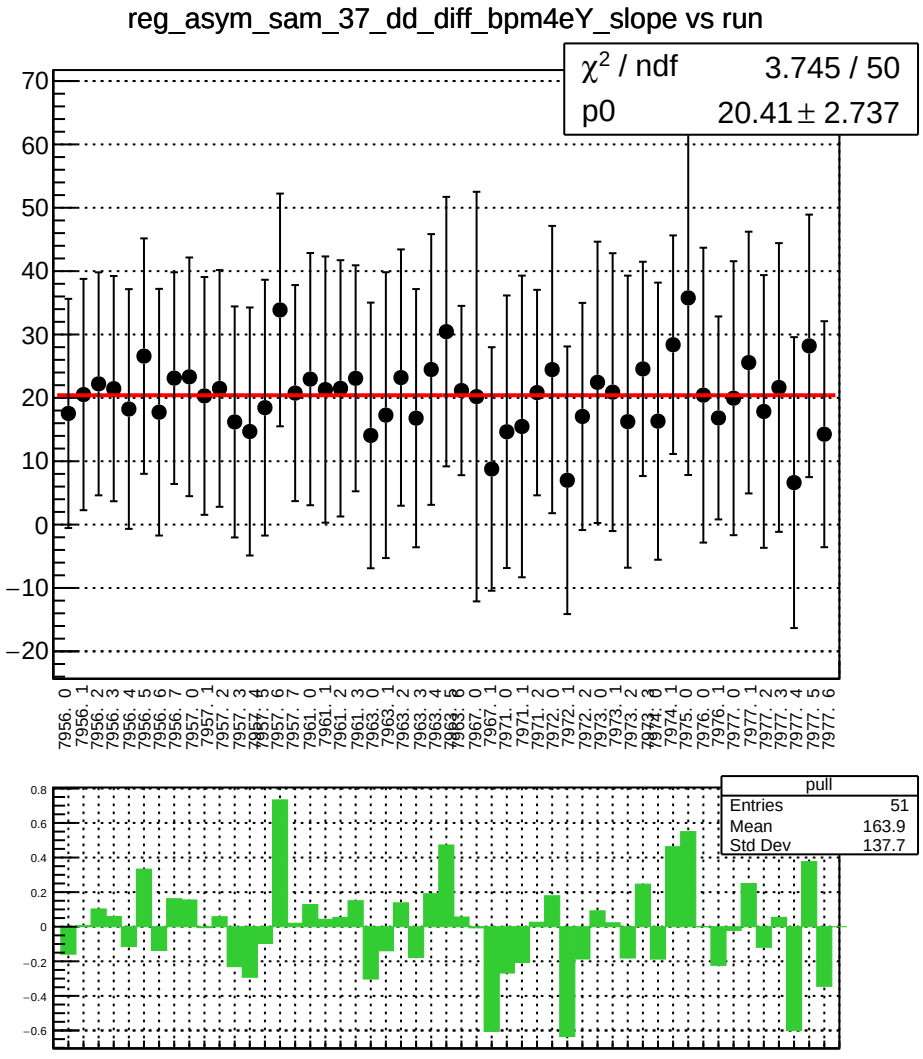

pull1D
Entries 51
Mean −0.02232
Std Dev 0.4933

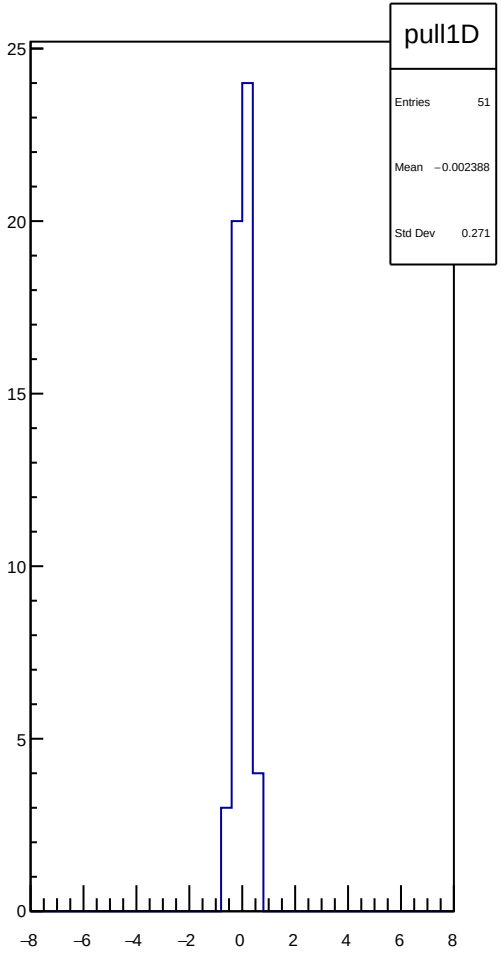

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.799 / 50
p0 −9.105 ± 2.39
pull
Entries 51
Mean −540
Std Dev 565.3

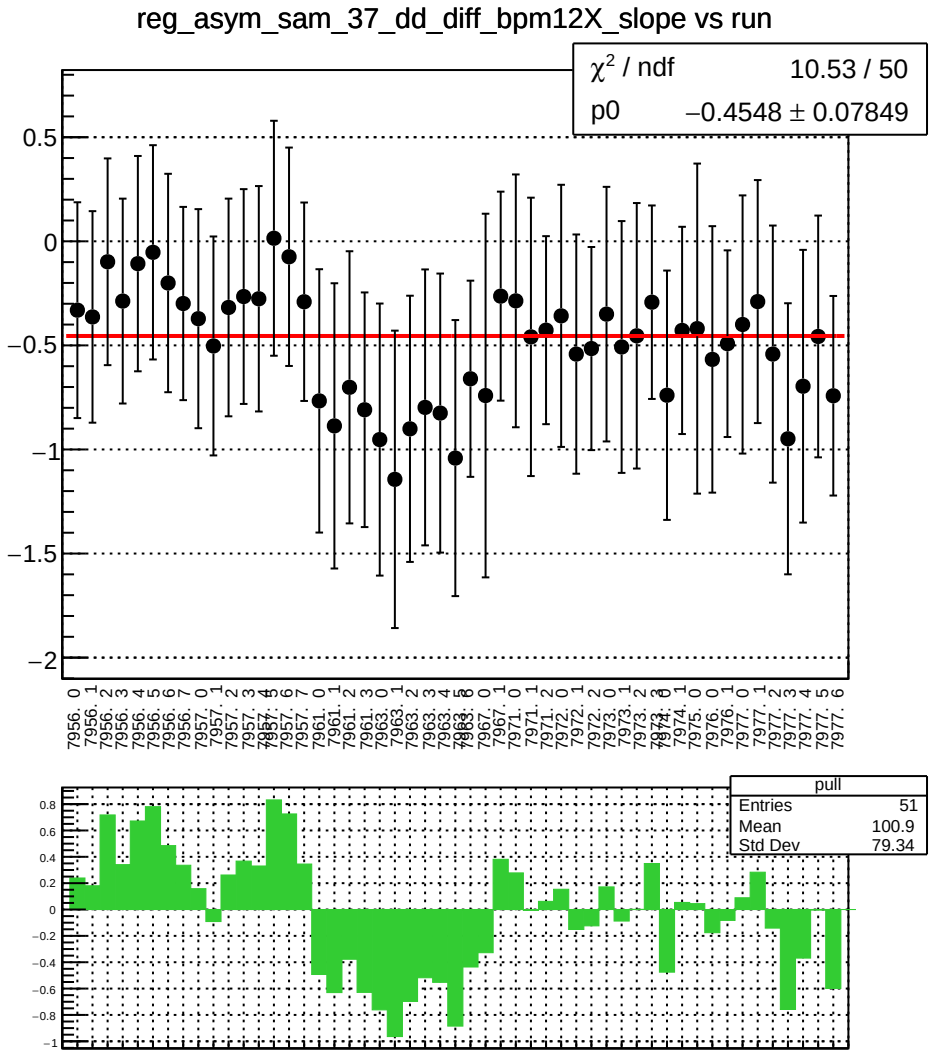

pull1D
Entries 51
Mean 0.001034
Std Dev 0.2729

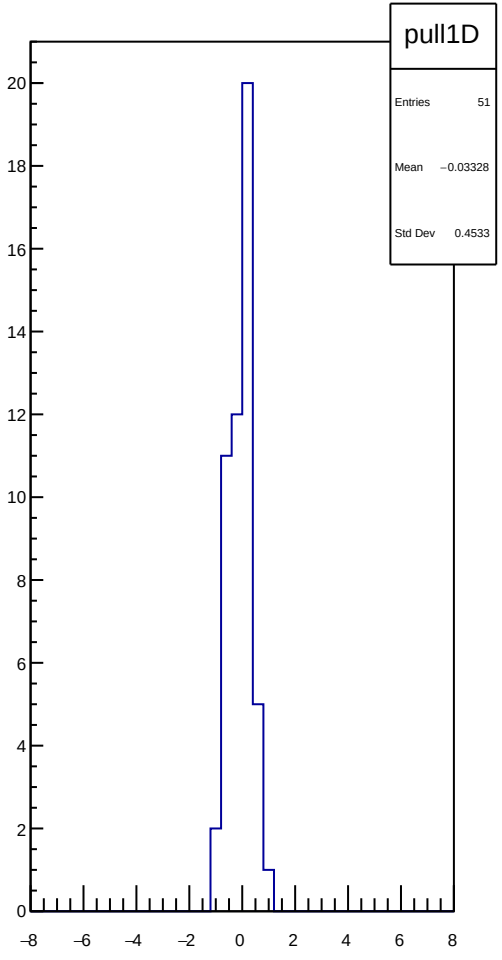

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.986 / 50
p0 −1.588 ± 2.068
pull
Entries 51
Mean 782.6
Std Dev 756.5

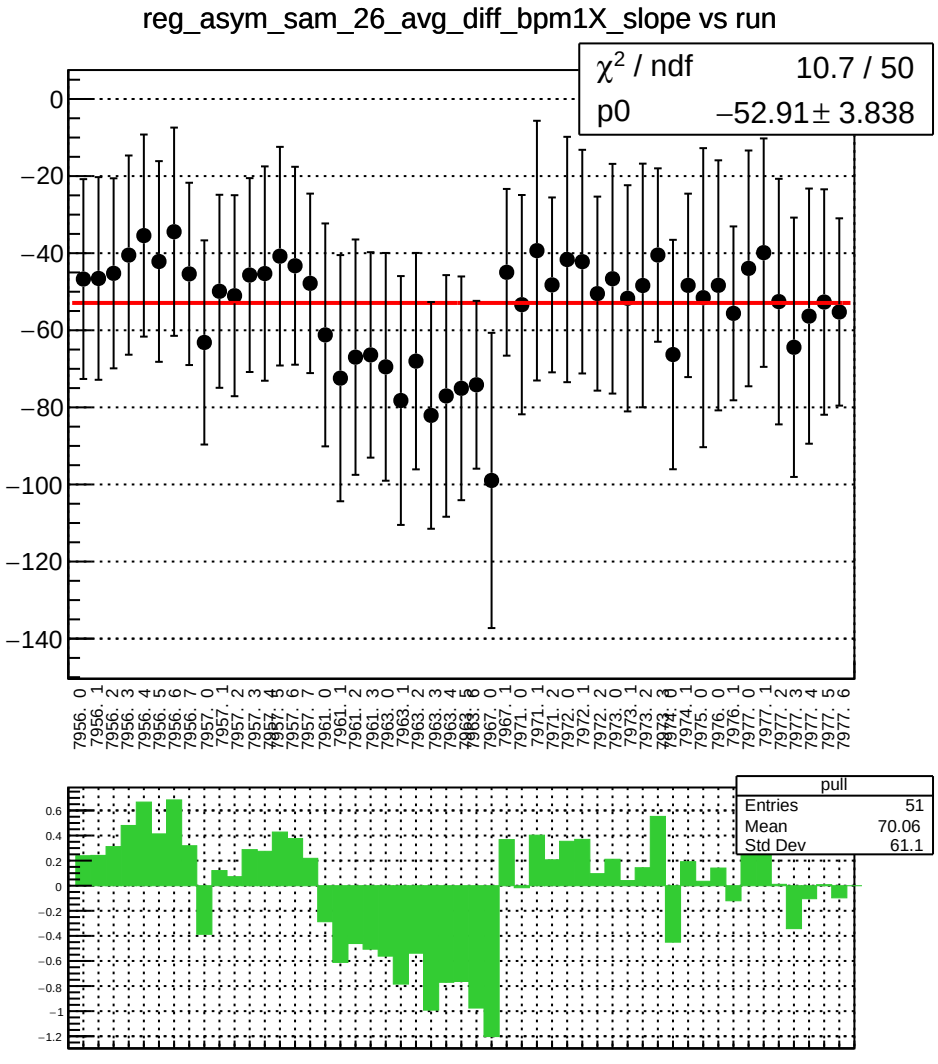

pull1D
Entries 51
Mean −0.002234
Std Dev 0.3426

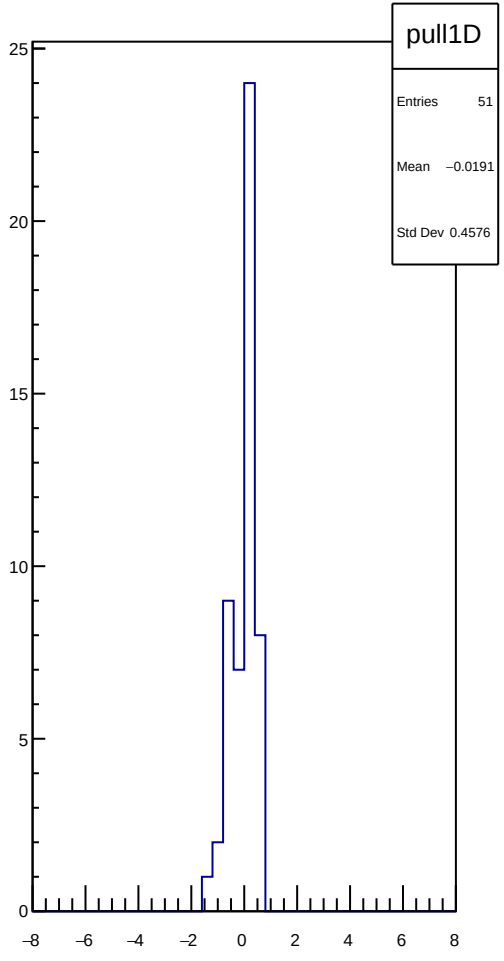

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.745 / 50
p0 20.41 ± 2.737
pull
Entries 51
Mean 163.9
Std Dev 137.7

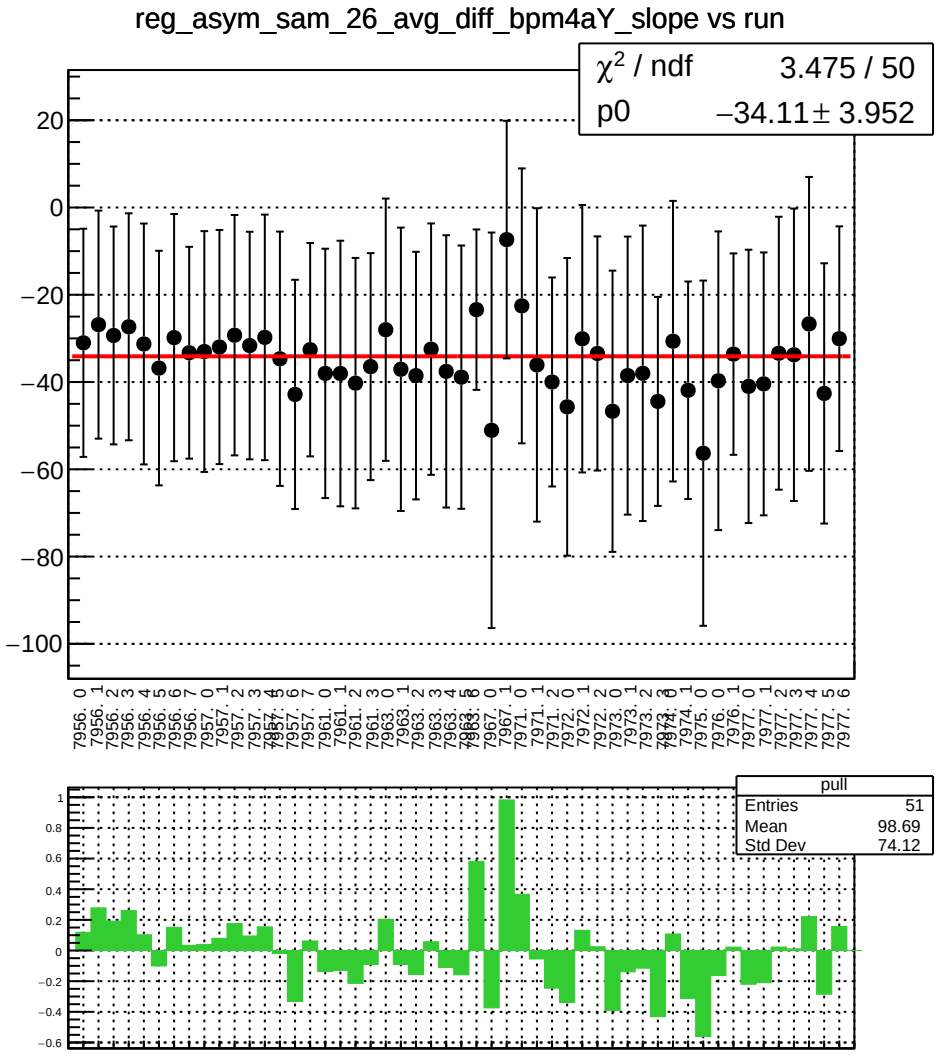

pull1D
Entries 51
Mean −0.002388
Std Dev 0.271

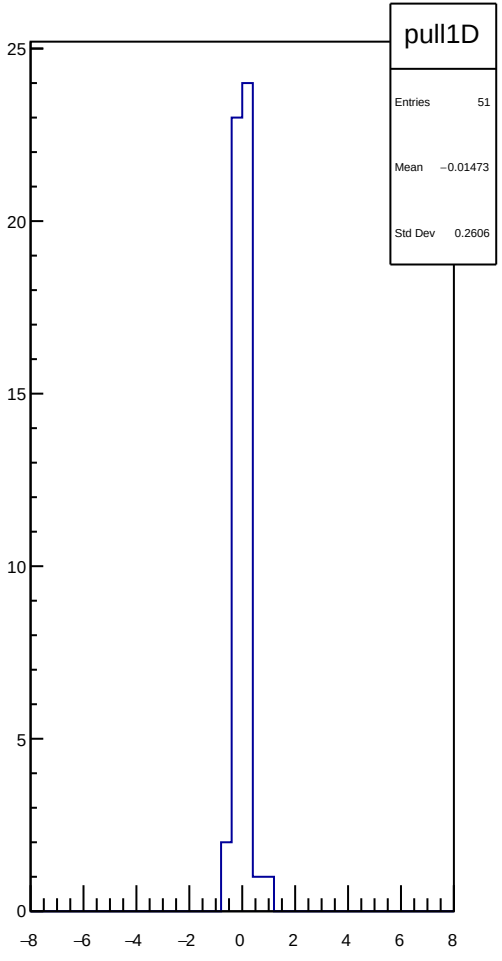

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.53 / 50
p0 −0.4548 ± 0.07849
pull
Entries 51
Mean 100.9
Std Dev 79.34

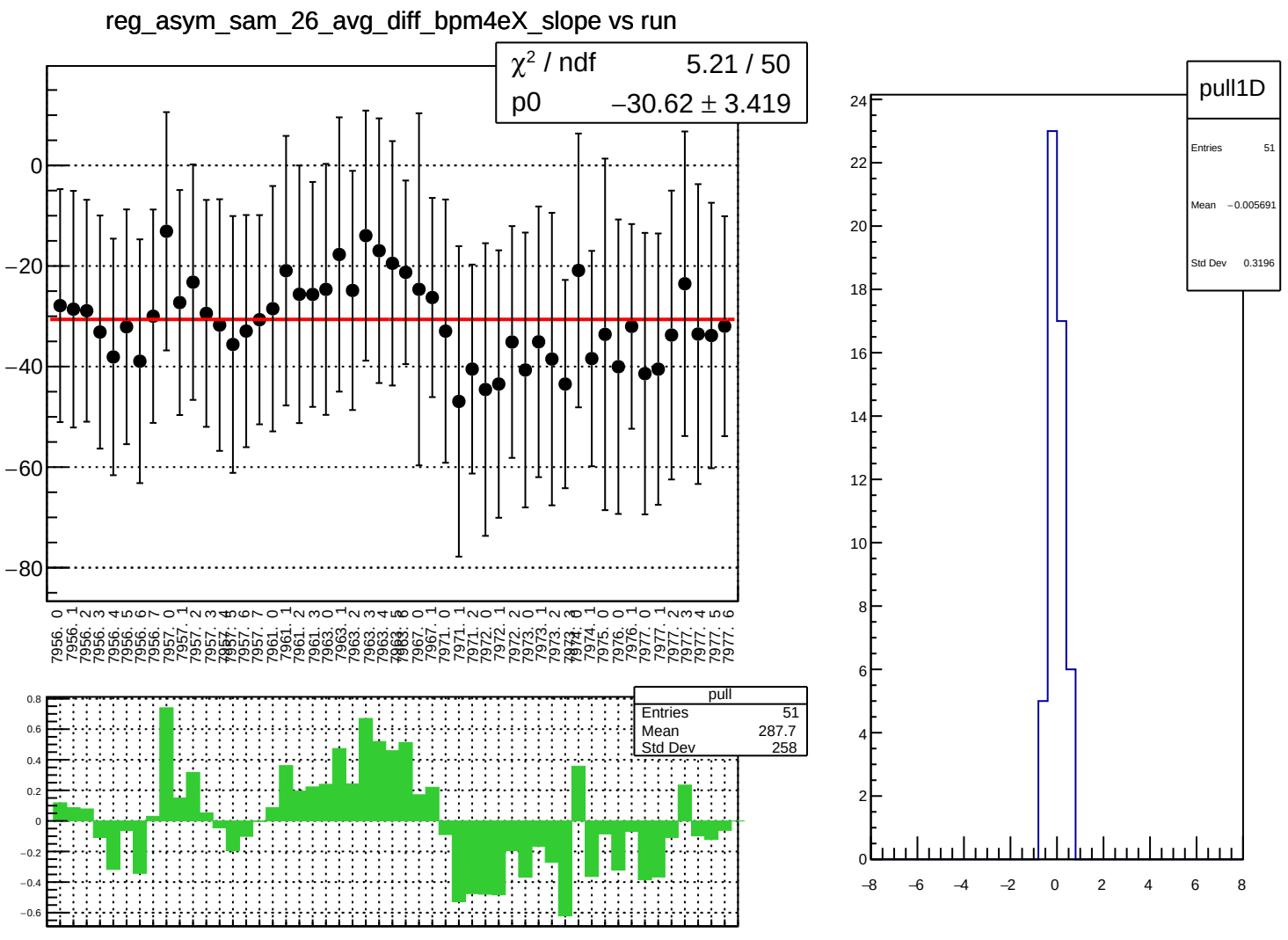

pull1D
Entries 51
Mean −0.03328
Std Dev 0.4533

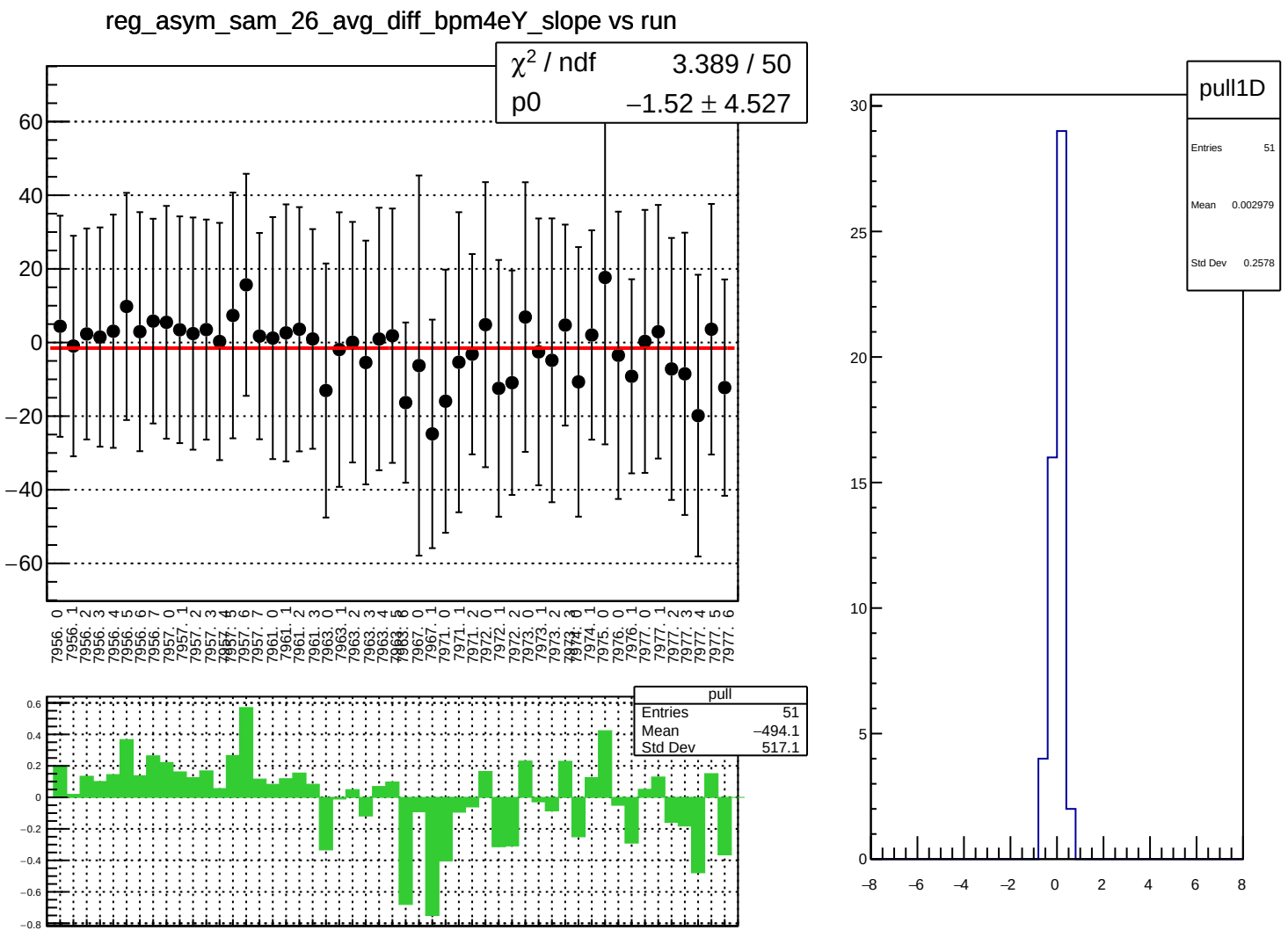

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 10.7 / 50
p0 −52.91 ± 3.838
pull
Entries 51
Mean 70.06
Std Dev 61.1

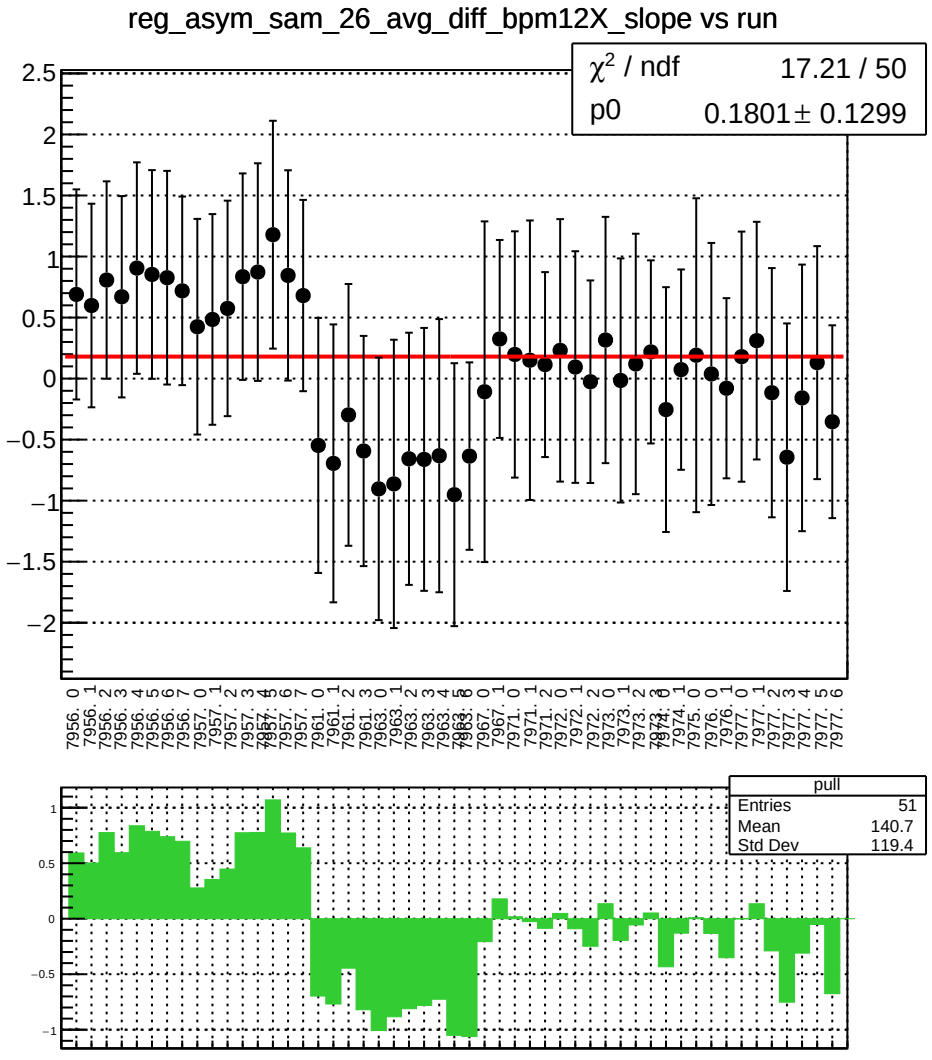

pull1D
Entries 51
Mean −0.0191
Std Dev 0.4576

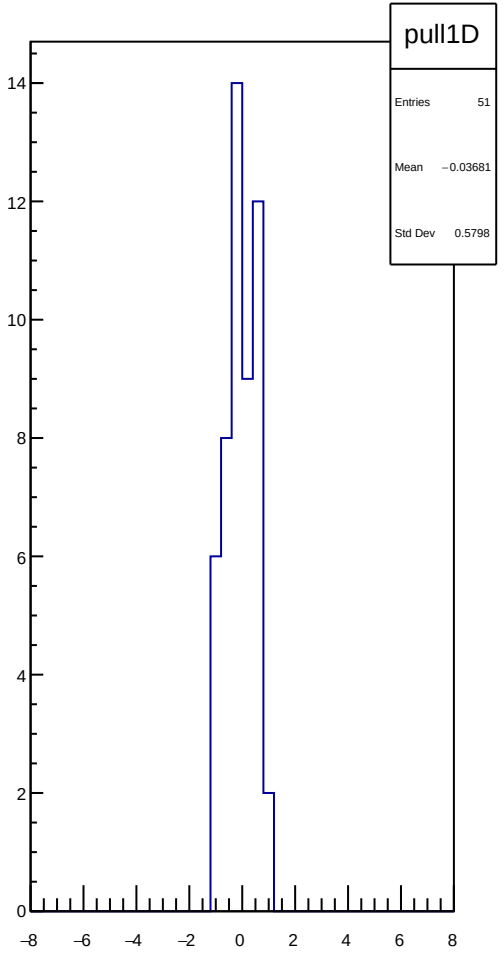

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.475 / 50
p0 −34.11 ± 3.952
pull
Entries 51
Mean 98.69
Std Dev 74.12

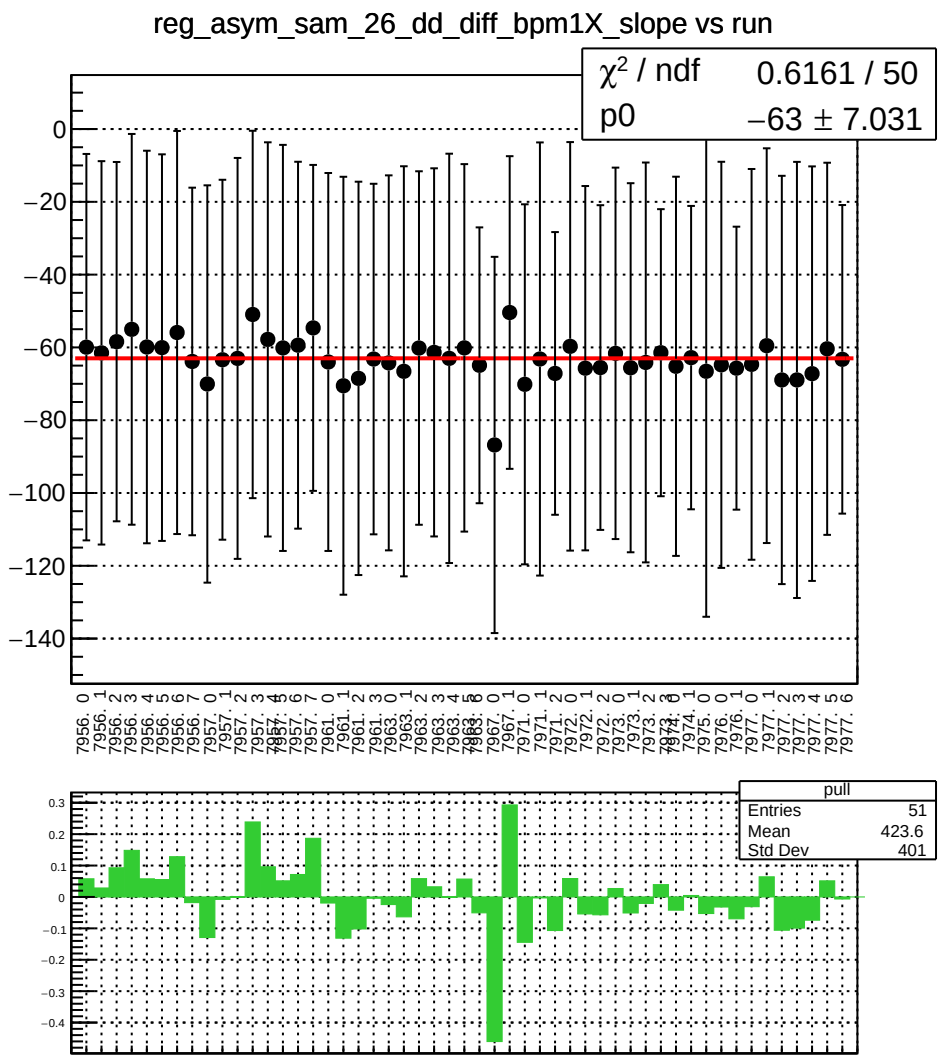

pull1D
Entries 51
Mean −0.01473
Std Dev 0.2606

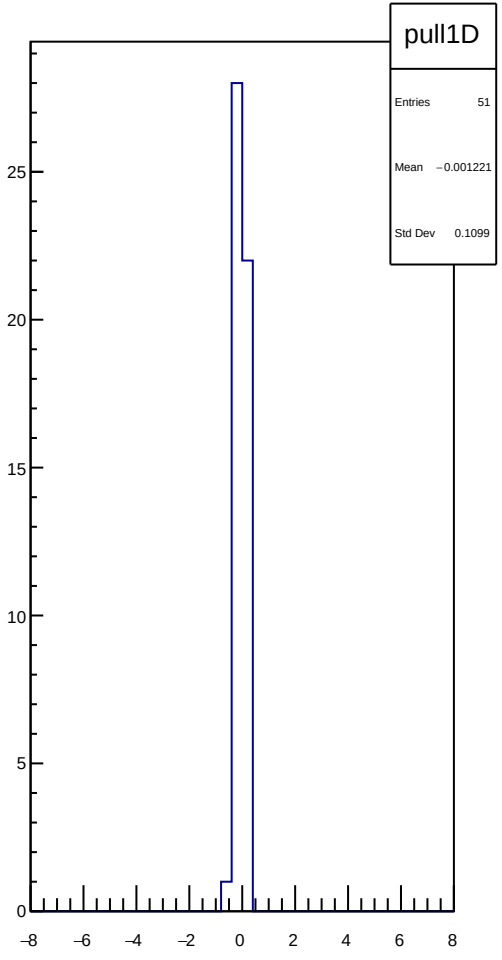

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.21 / 50
p0 −30.62 ± 3.419
pull
Entries 51
Mean 287.7
Std Dev 258
pull1D
Entries 51
Mean −0.005691
Std Dev 0.3196

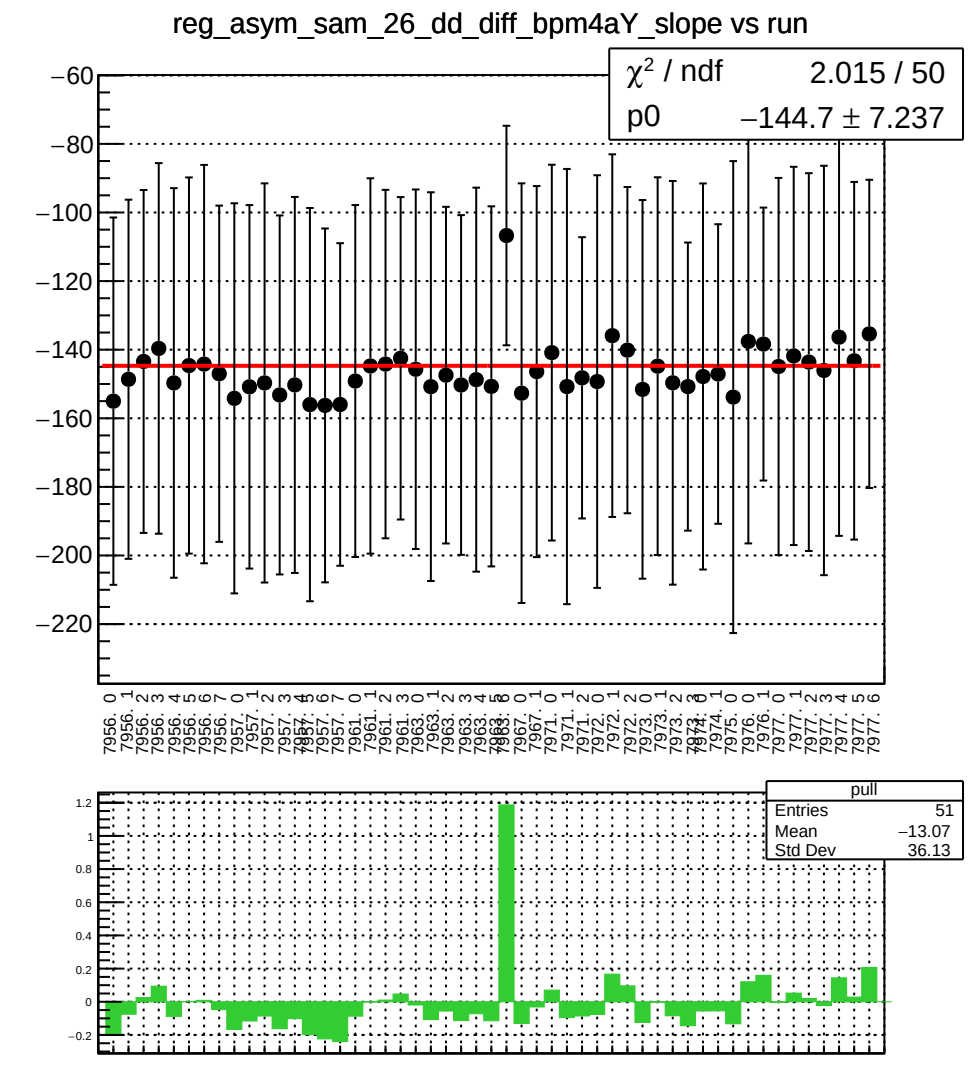

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.389 / 50
p0 −1.52 ± 4.527
pull
Entries 51
Mean −494.1
Std Dev 517.1
pull1D
Entries 51
Mean 0.002979
Std Dev 0.2578

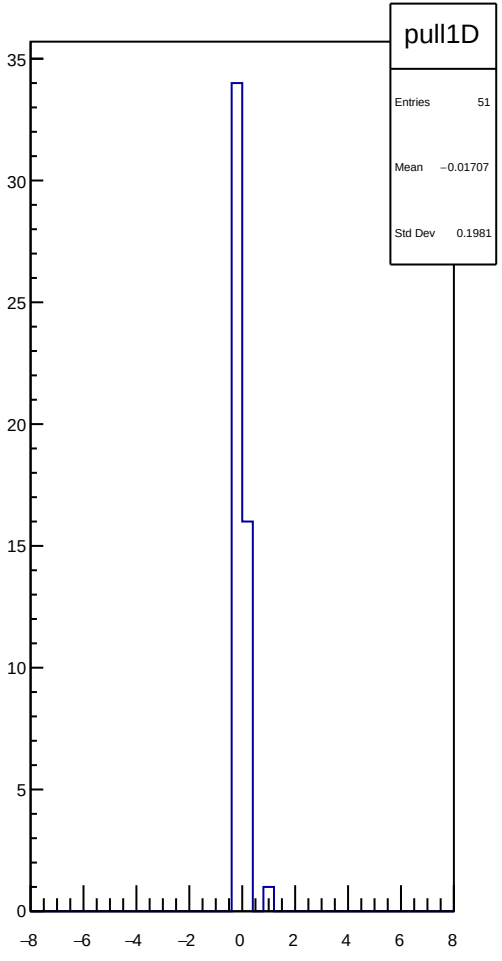

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 17.21 / 50
p0 0.1801 ± 0.1299
pull
Entries 51
Mean 140.7
Std Dev 119.4

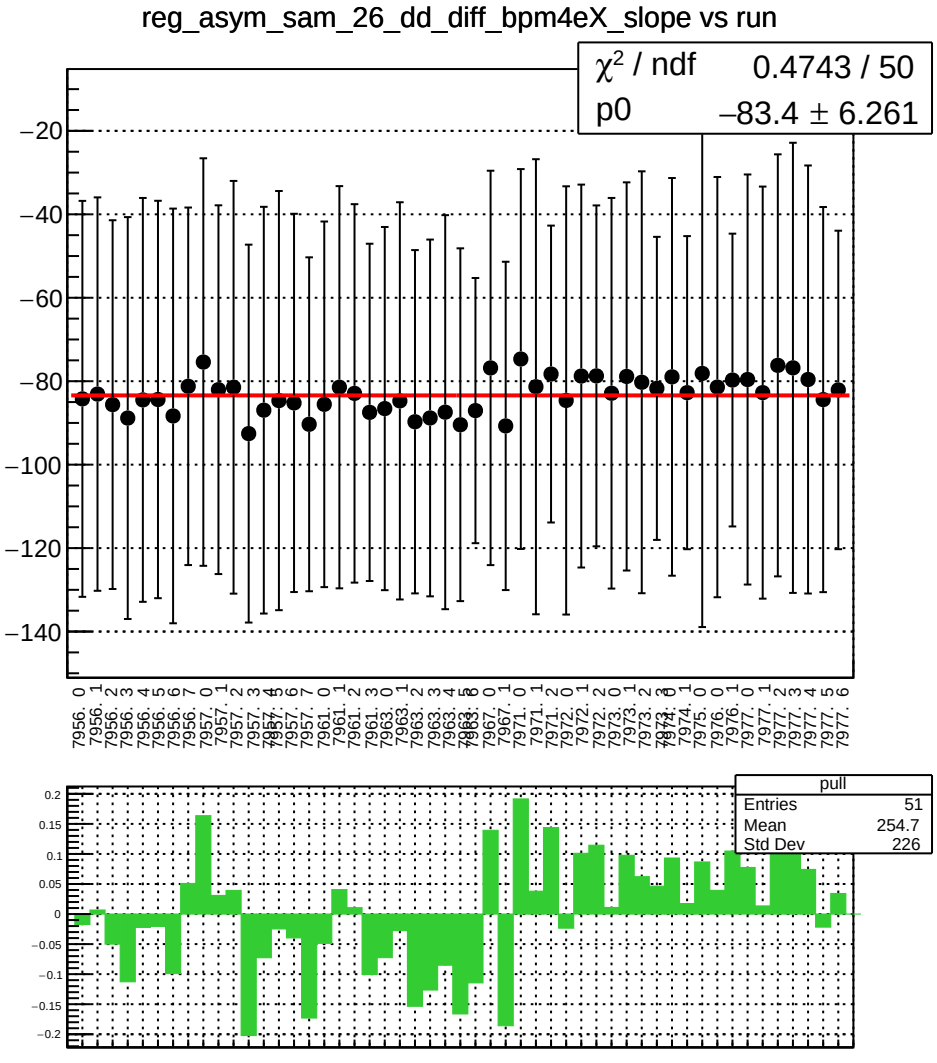

pull1D
Entries 51
Mean −0.03681
Std Dev 0.5798

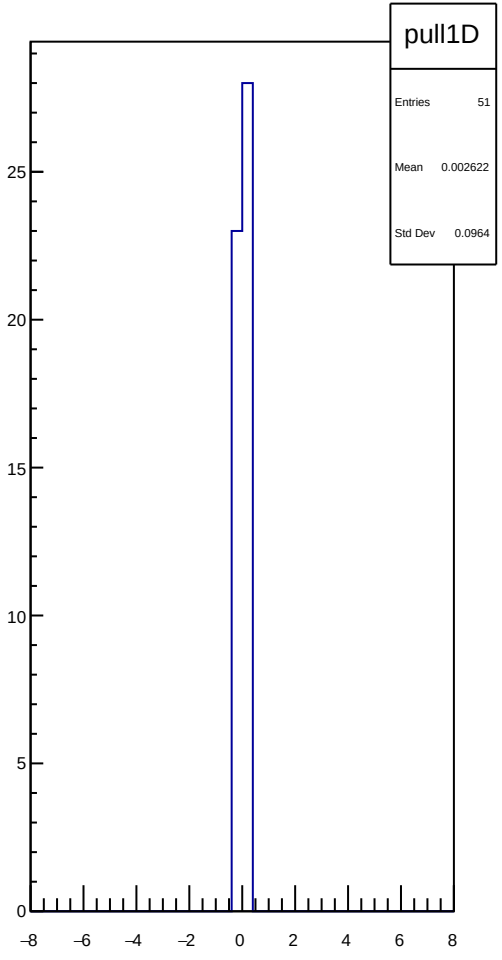

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 0.6161 / 50
p0 −63 ± 7.031
pull
Entries 51
Mean 423.6
Std Dev 401

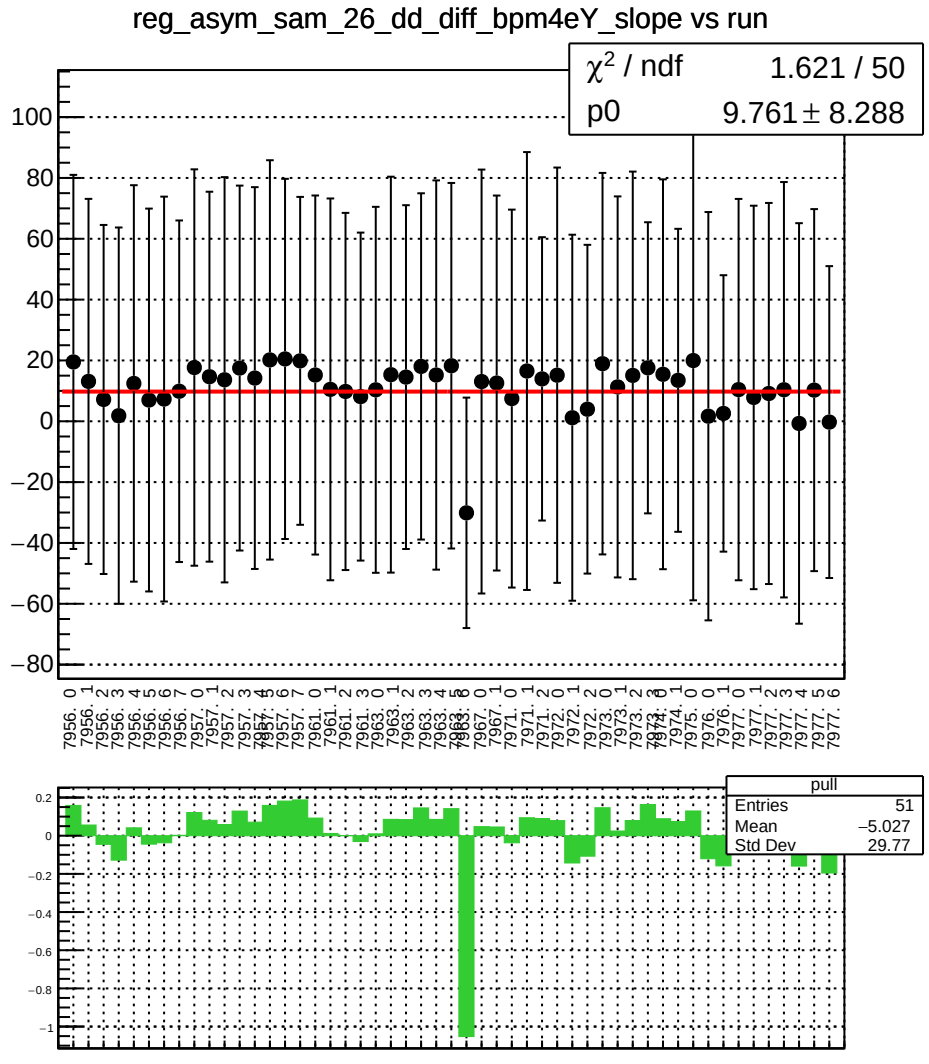

pull1D
Entries 51
Mean −0.001221
Std Dev 0.1099

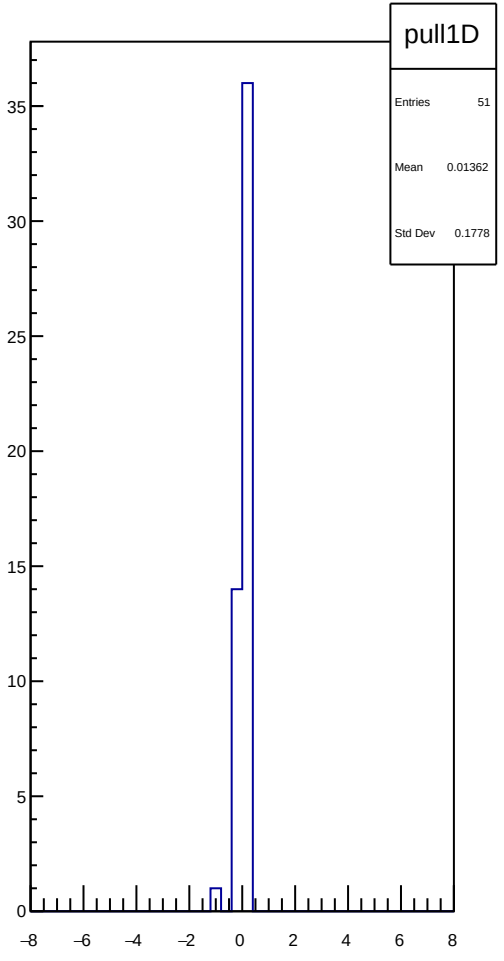

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.015 / 50
p0 −144.7 ± 7.237
pull
Entries 51
Mean −13.07
Std Dev 36.13

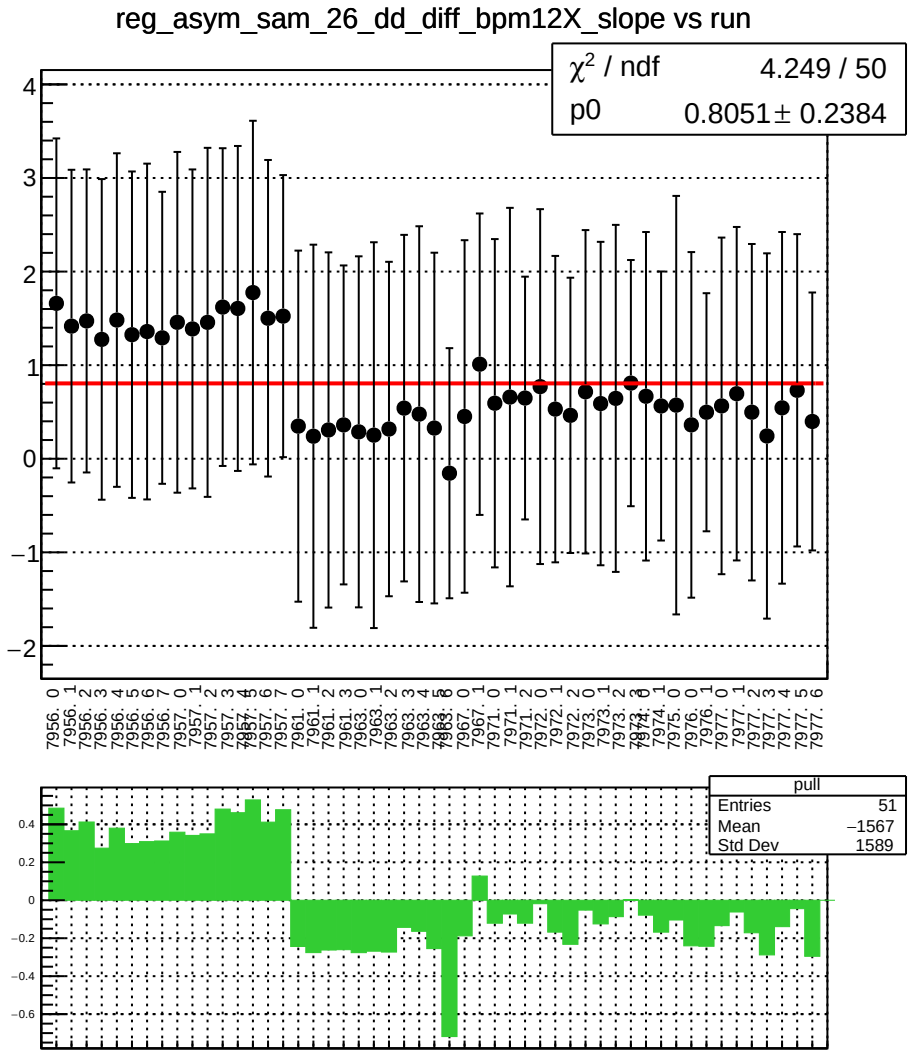

pull1D
Entries 51
Mean −0.01707
Std Dev 0.1981

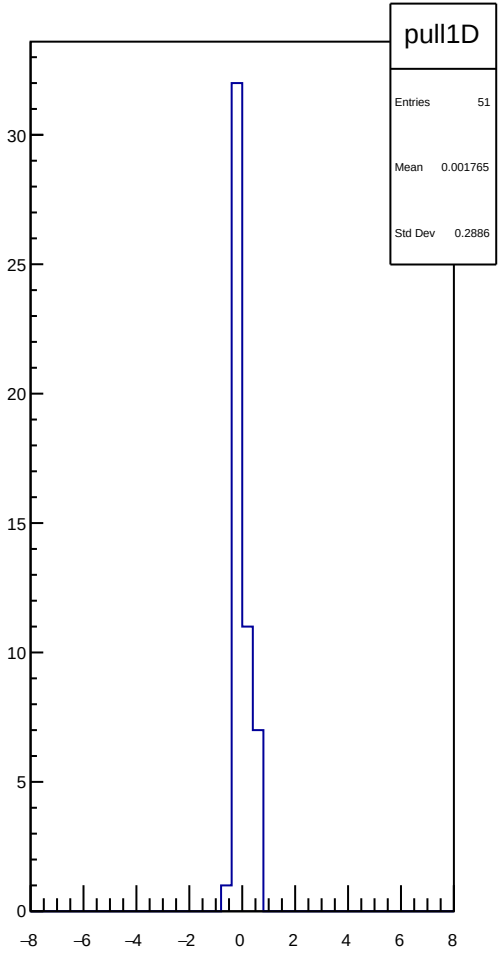

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.4743 / 50
p0 −83.4 ± 6.261
pull
Entries 51
Mean 254.7
Std Dev 226

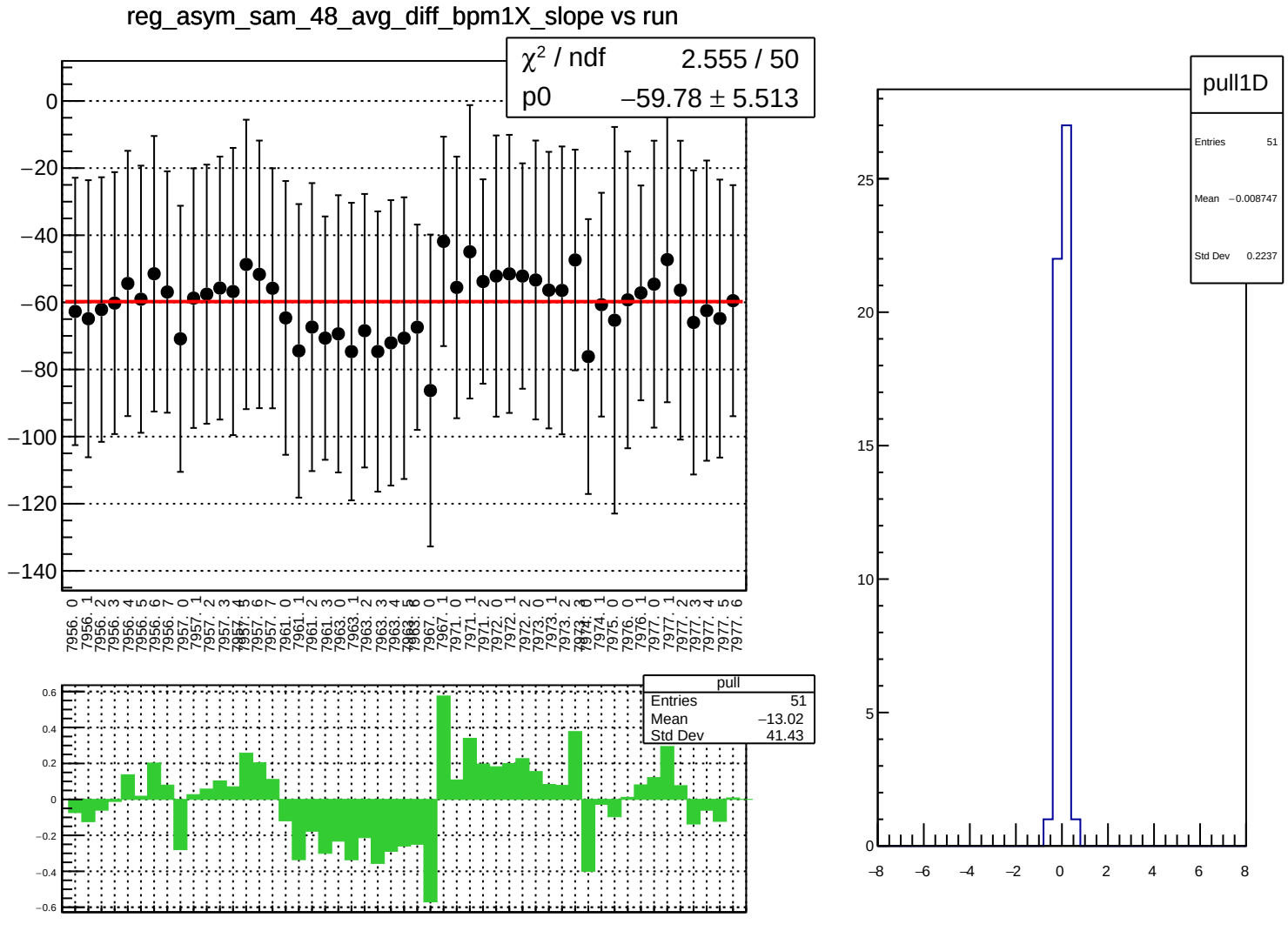

pull1D
Entries 51
Mean 0.002622
Std Dev 0.0964

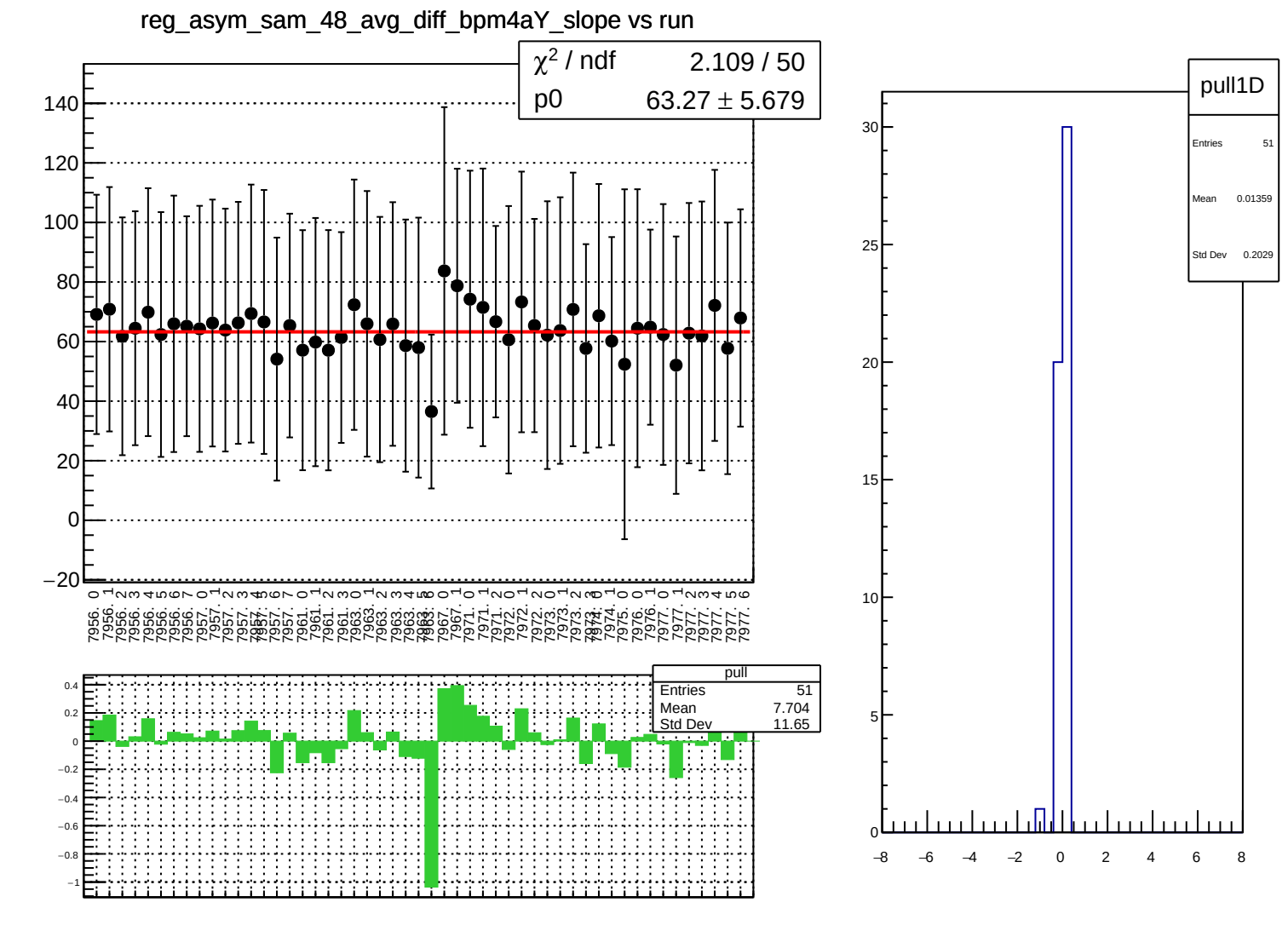

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.621 / 50
p0 9.761 ± 8.288
pull
Entries 51
Mean −5.027
Std Dev 29.77

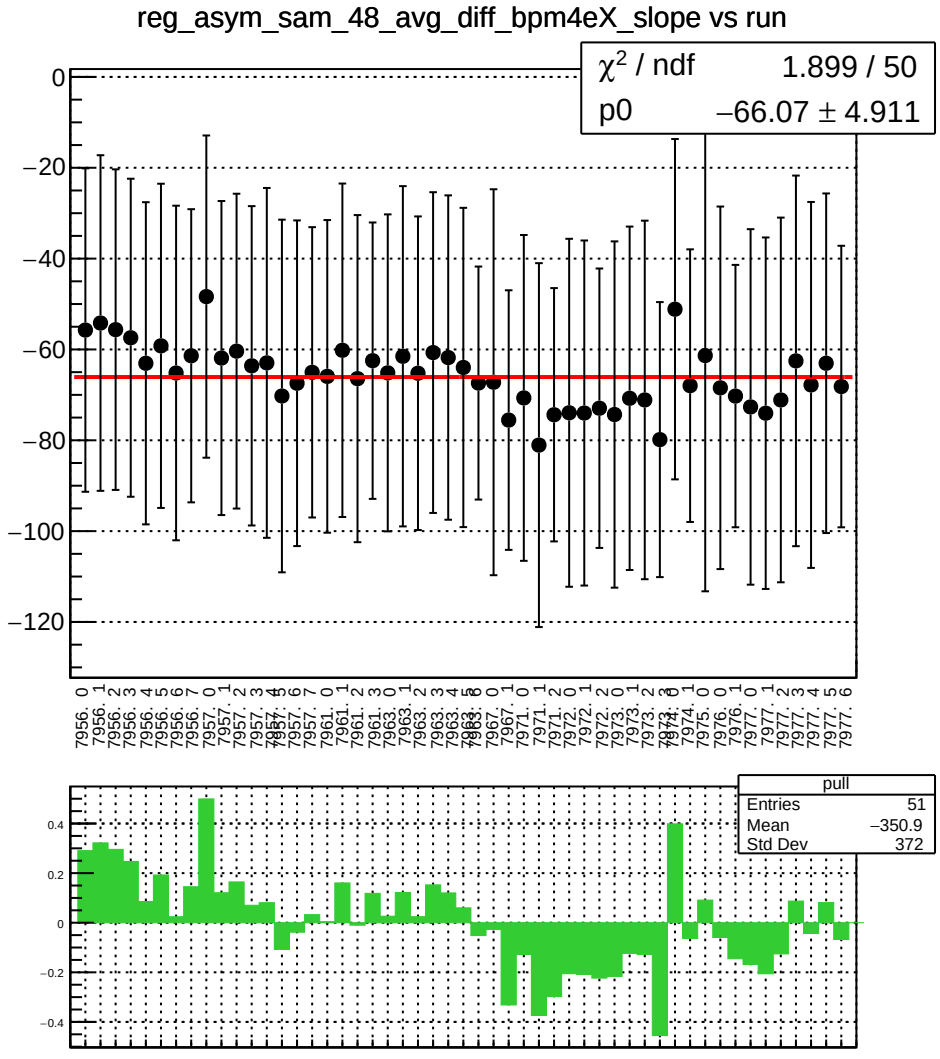

pull1D
Entries 51
Mean 0.01362
Std Dev 0.1778

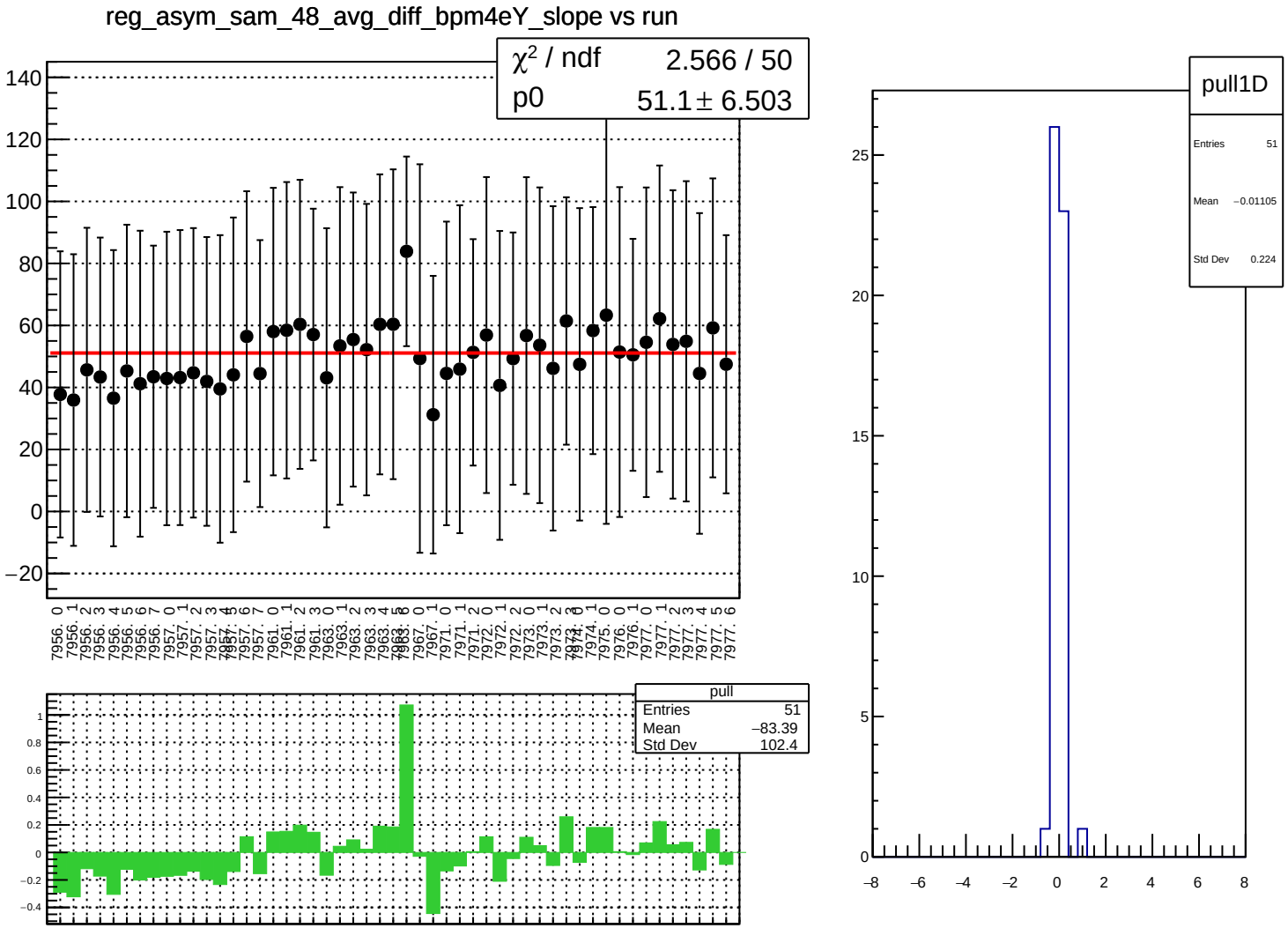

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.249 / 50
p0 0.8051 ± 0.2384
pull
Entries 51
Mean −1567
Std Dev 1589

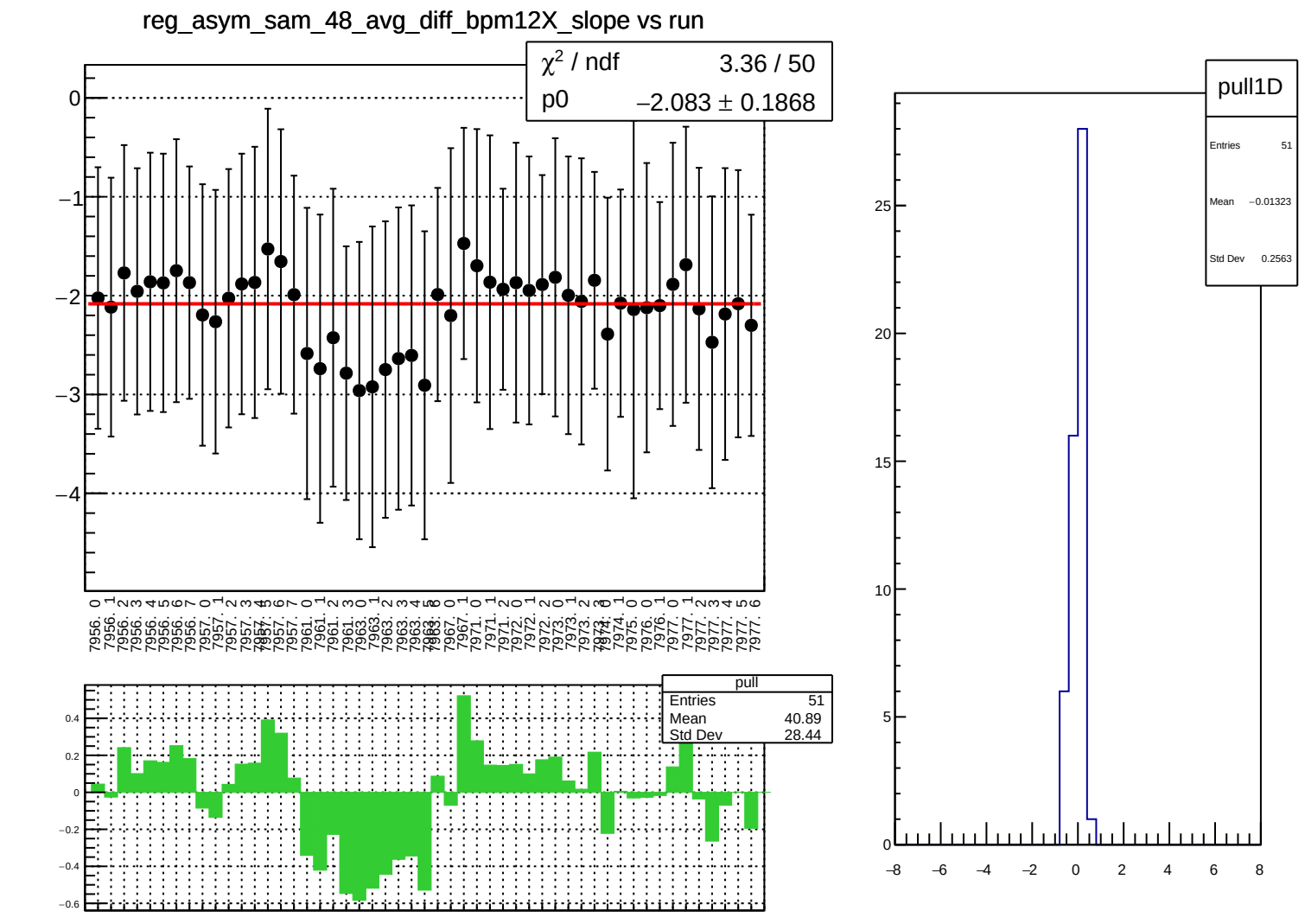

pull1D
Entries 51
Mean 0.001765
Std Dev 0.2886

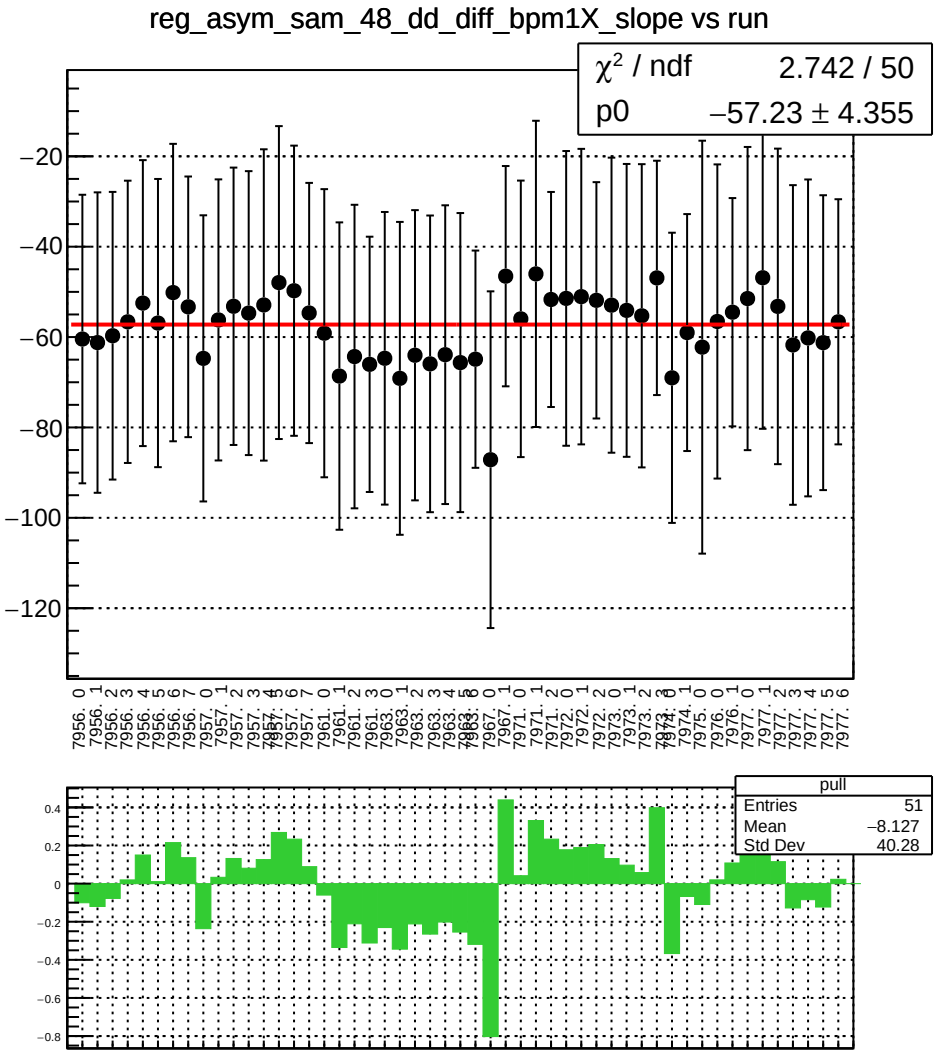

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.555 / 50
p0 −59.78 ± 5.513
pull
Entries 51
Mean −13.02
Std Dev 41.43
pull1D
Entries 51
Mean −0.008747
Std Dev 0.2237

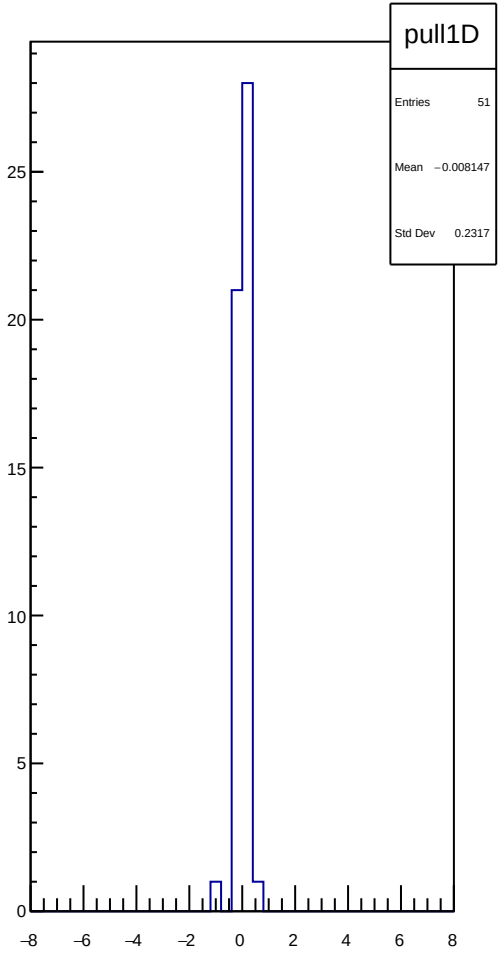

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.109 / 50
p0 63.27 ± 5.679
pull
Entries 51
Mean 7.704
Std Dev 11.65
pull1D
Entries 51
Mean 0.01359
Std Dev 0.2029

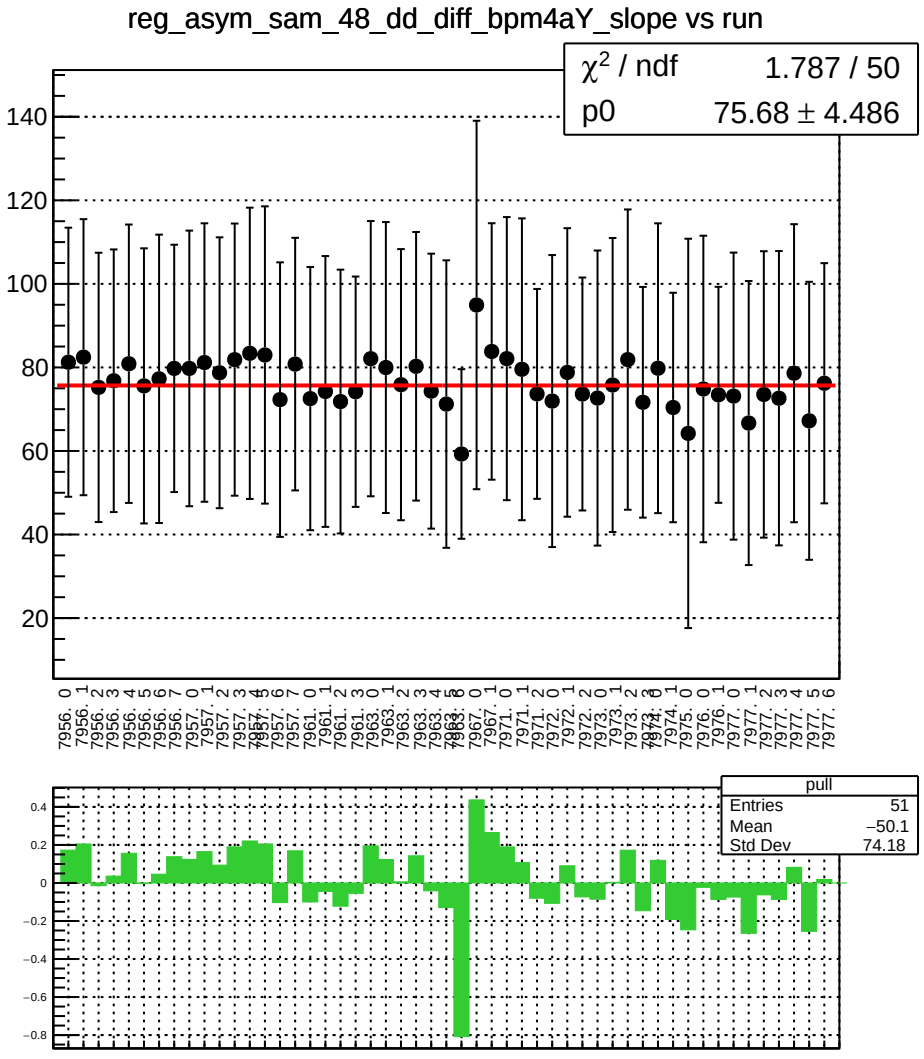

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 1.899 / 50
p0 −66.07 ± 4.911
pull
Entries 51
Mean −350.9
Std Dev 372
pull1D
Entries 51
Mean 0.004179
Std Dev 0.1929

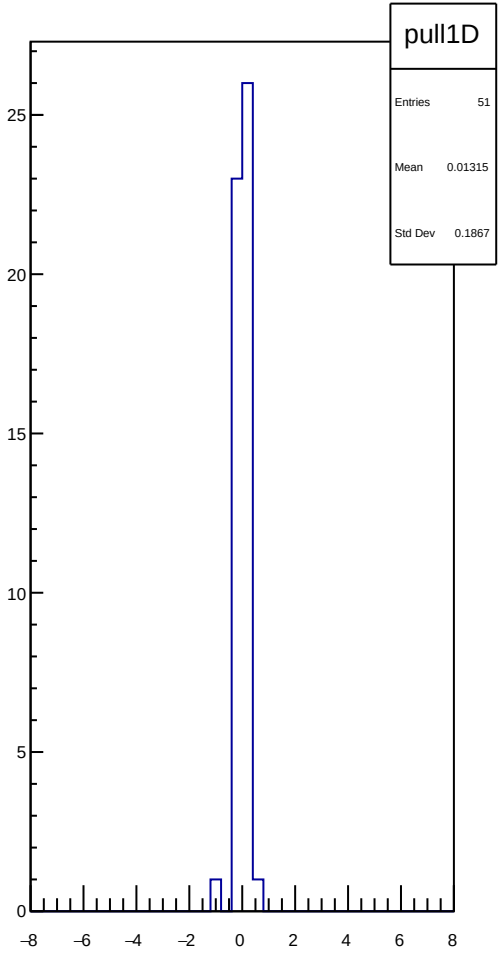

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.566 / 50
p0 51.1 ± 6.503
pull
Entries 51
Mean −83.39
Std Dev 102.4
pull1D
Entries 51
Mean −0.01105
Std Dev 0.224

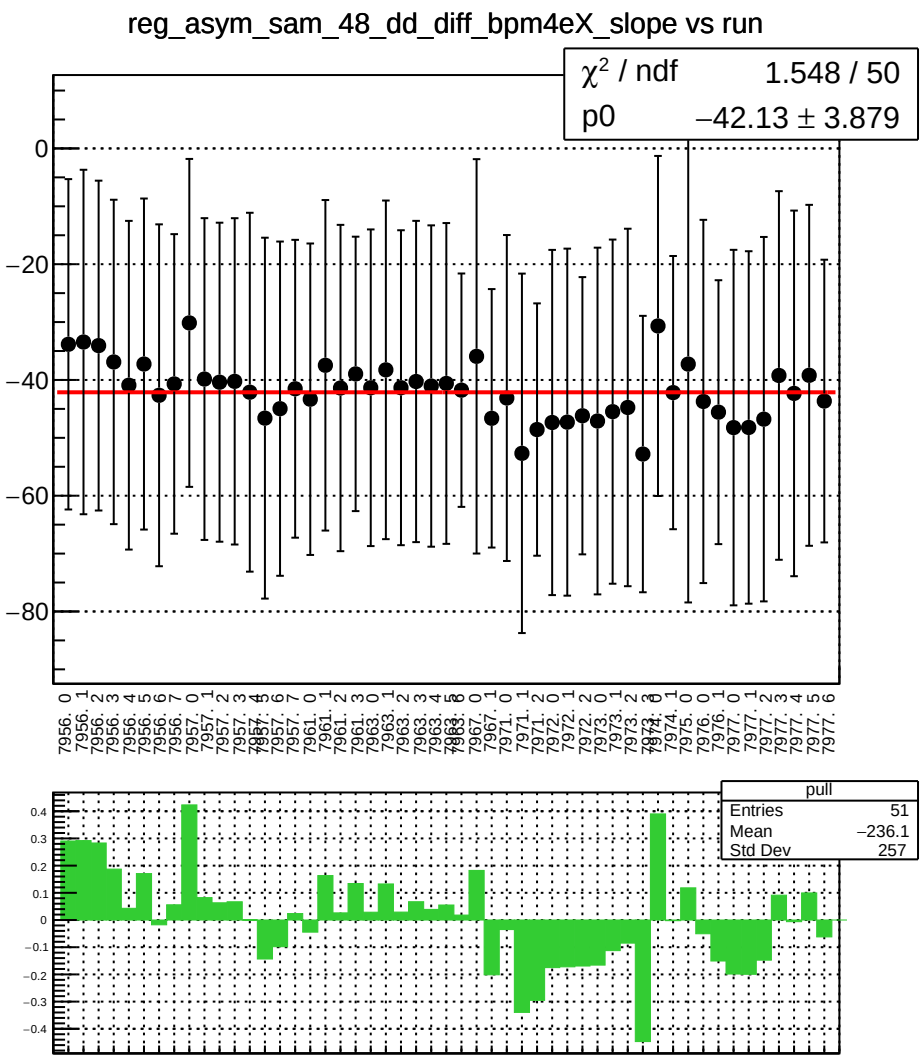

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 3.36 / 50
p0 −2.083 ± 0.1868
pull
Entries 51
Mean 40.89
Std Dev 28.44
pull1D
Entries 51
Mean −0.01323
Std Dev 0.2563

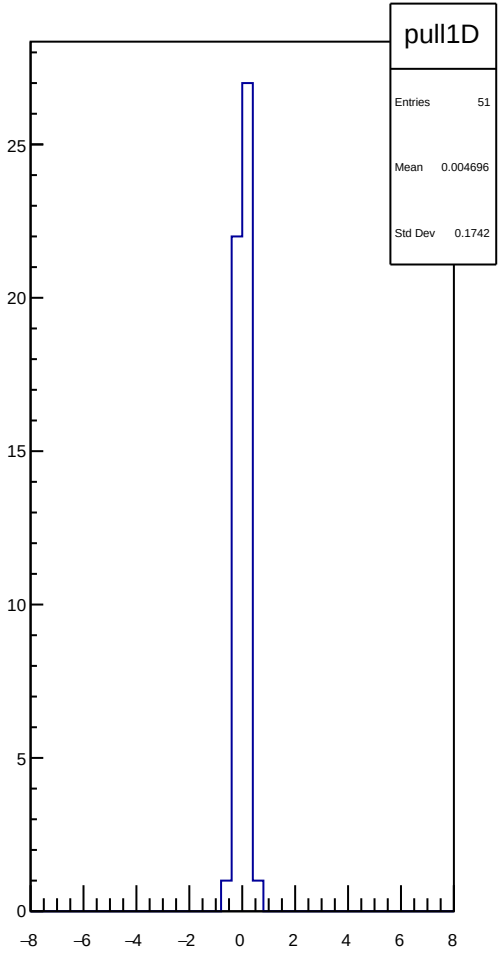

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.742 / 50
p0 −57.23 ± 4.355
pull
Entries 51
Mean −8.127
Std Dev 40.28

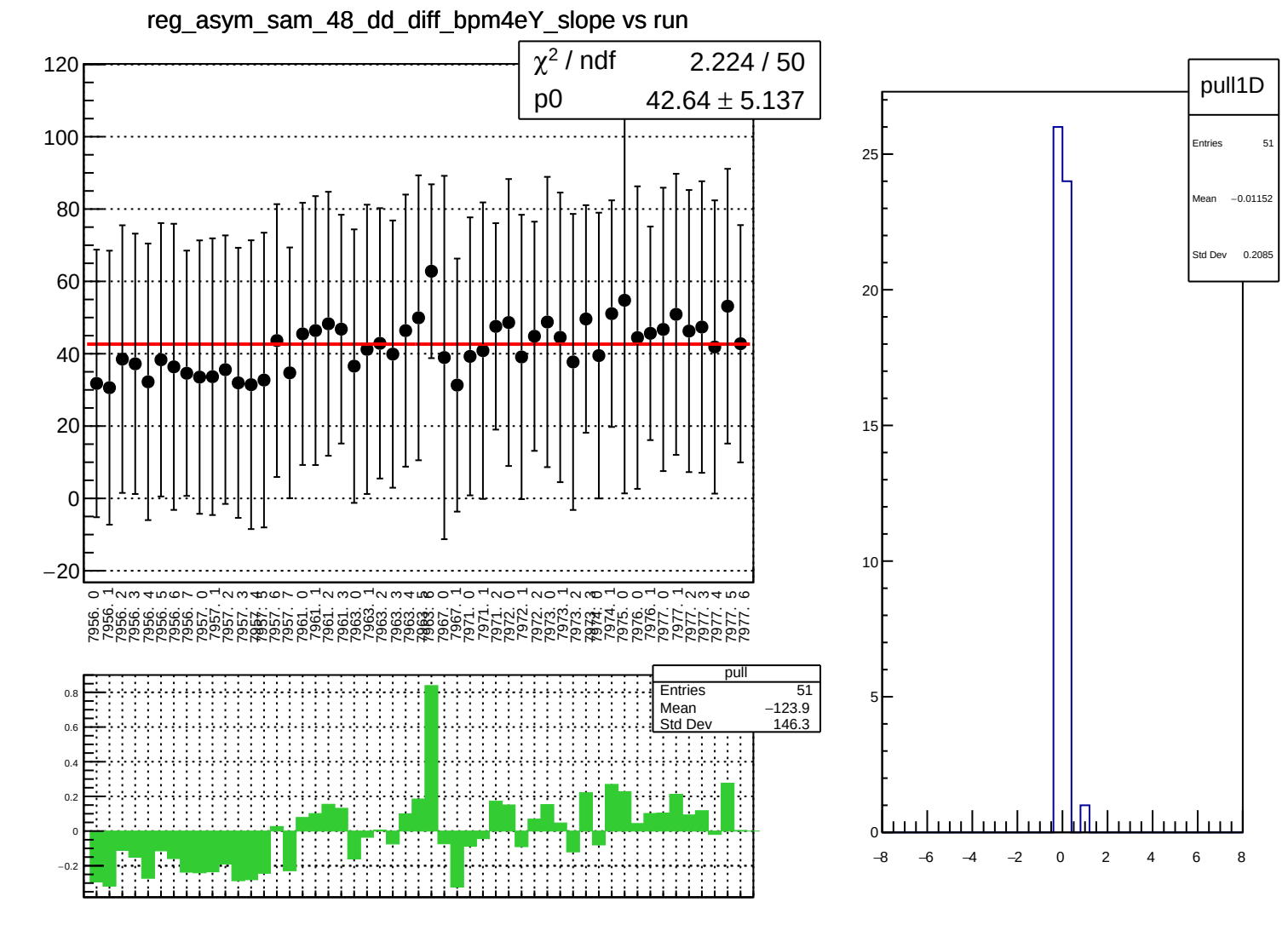

pull1D
Entries 51
Mean −0.008147
Std Dev 0.2317

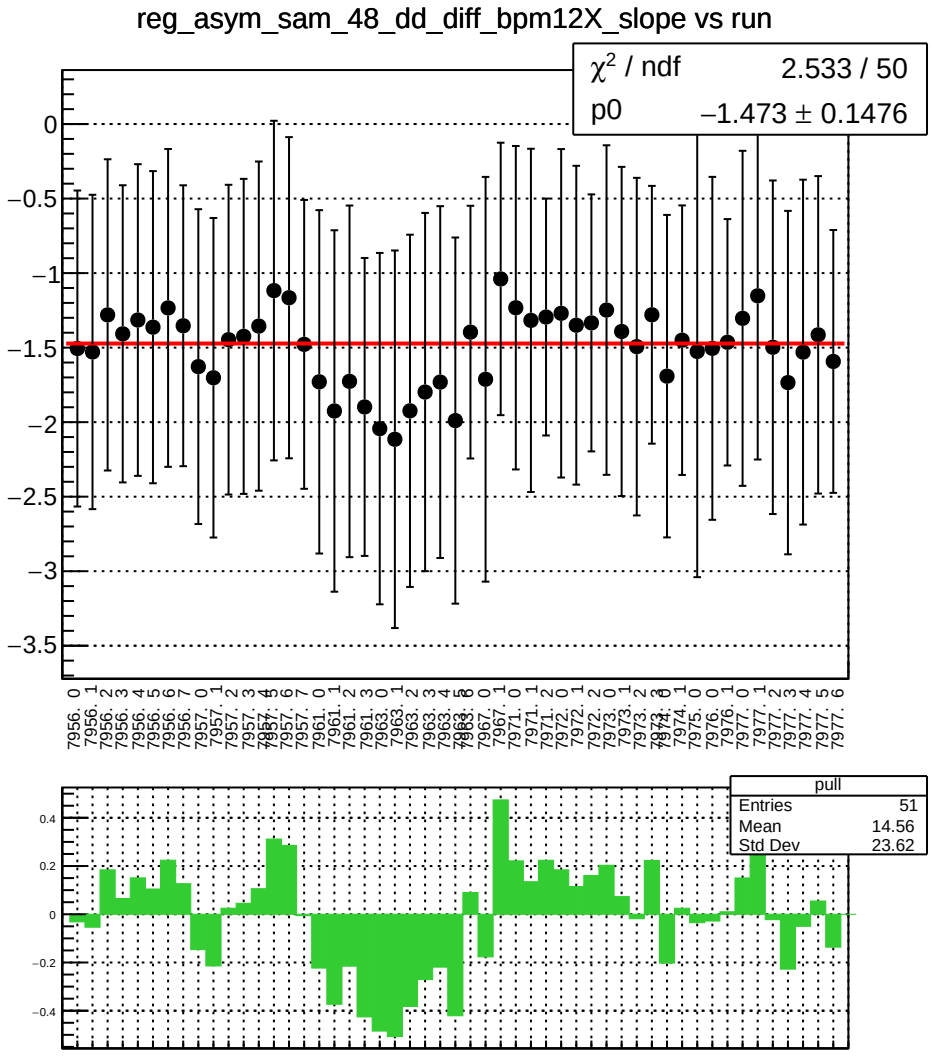

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.787 / 50
p0 75.68 ± 4.486
pull
Entries 51
Mean −50.1
Std Dev 74.18

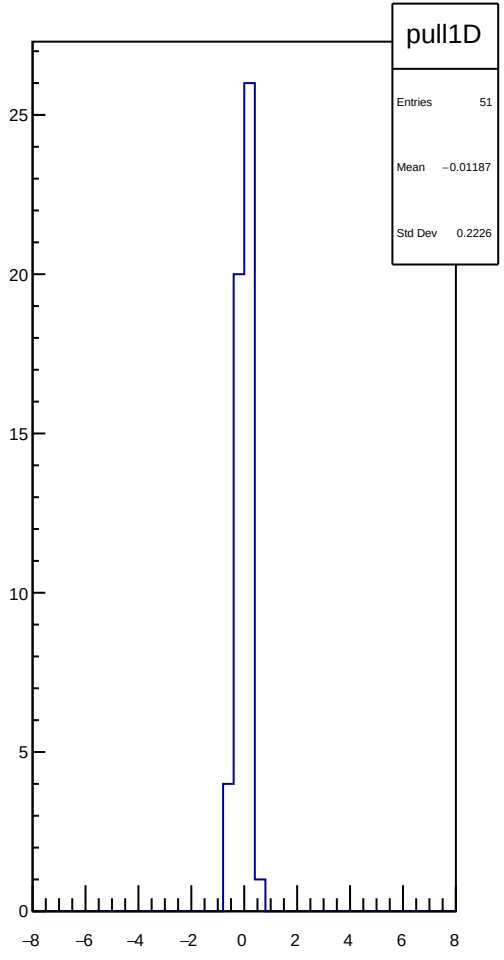

pull1D
Entries 51
Mean 0.01315
Std Dev 0.1867

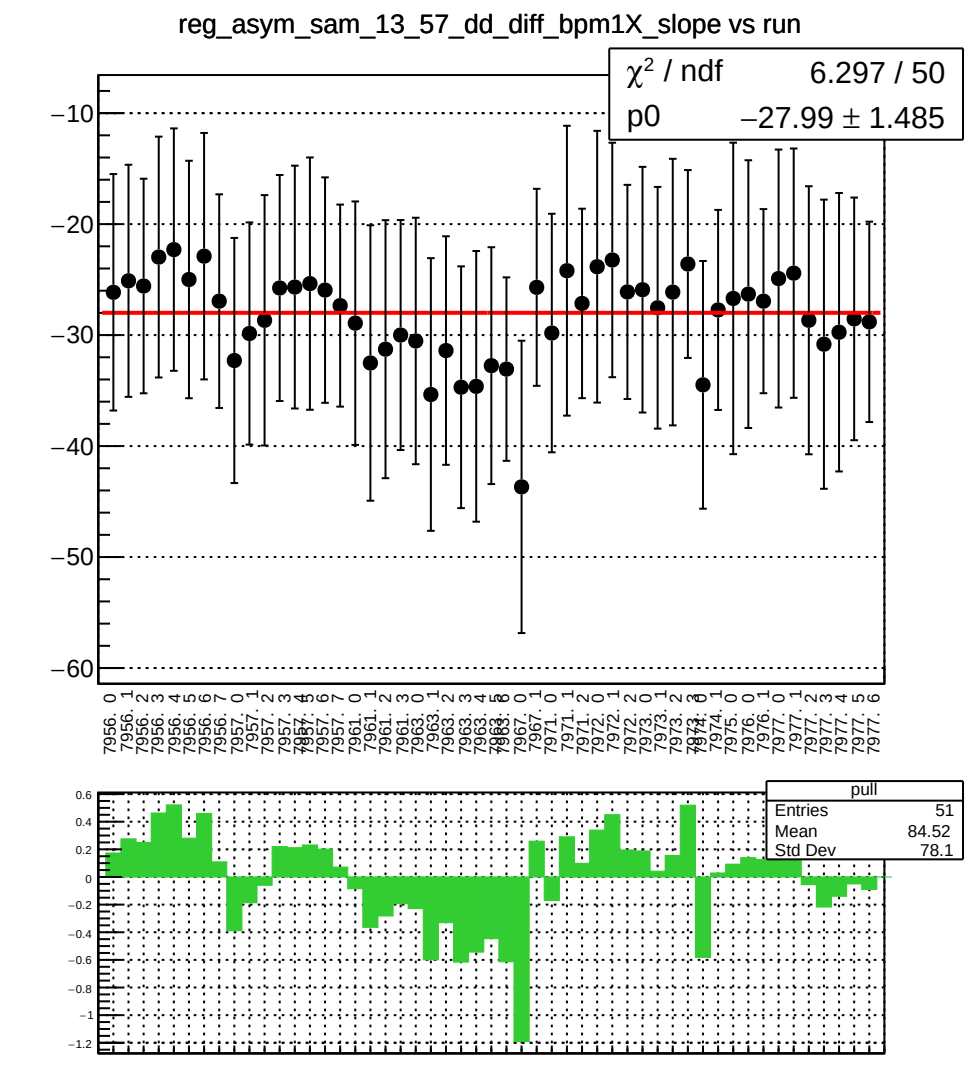

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.548 / 50
p0 −42.13 ± 3.879
pull
Entries 51
Mean −236.1
Std Dev 257

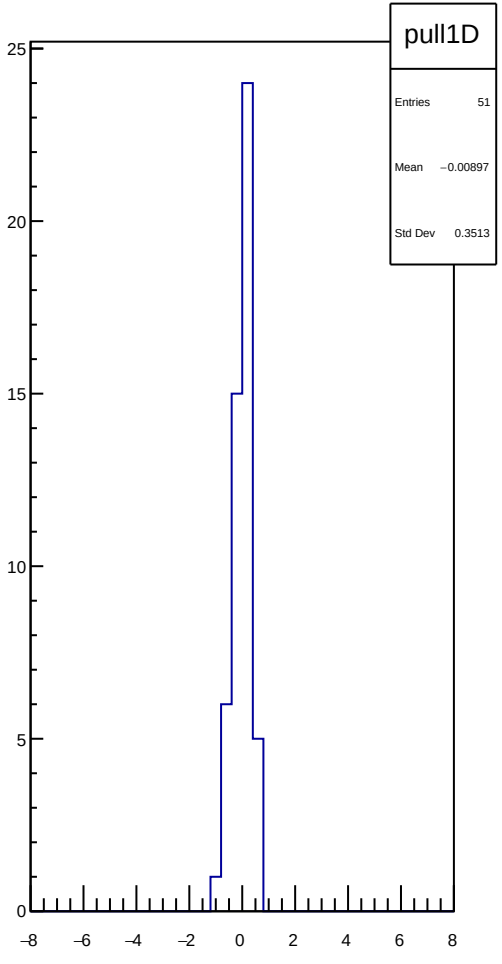

pull1D
Entries 51
Mean 0.004696
Std Dev 0.1742

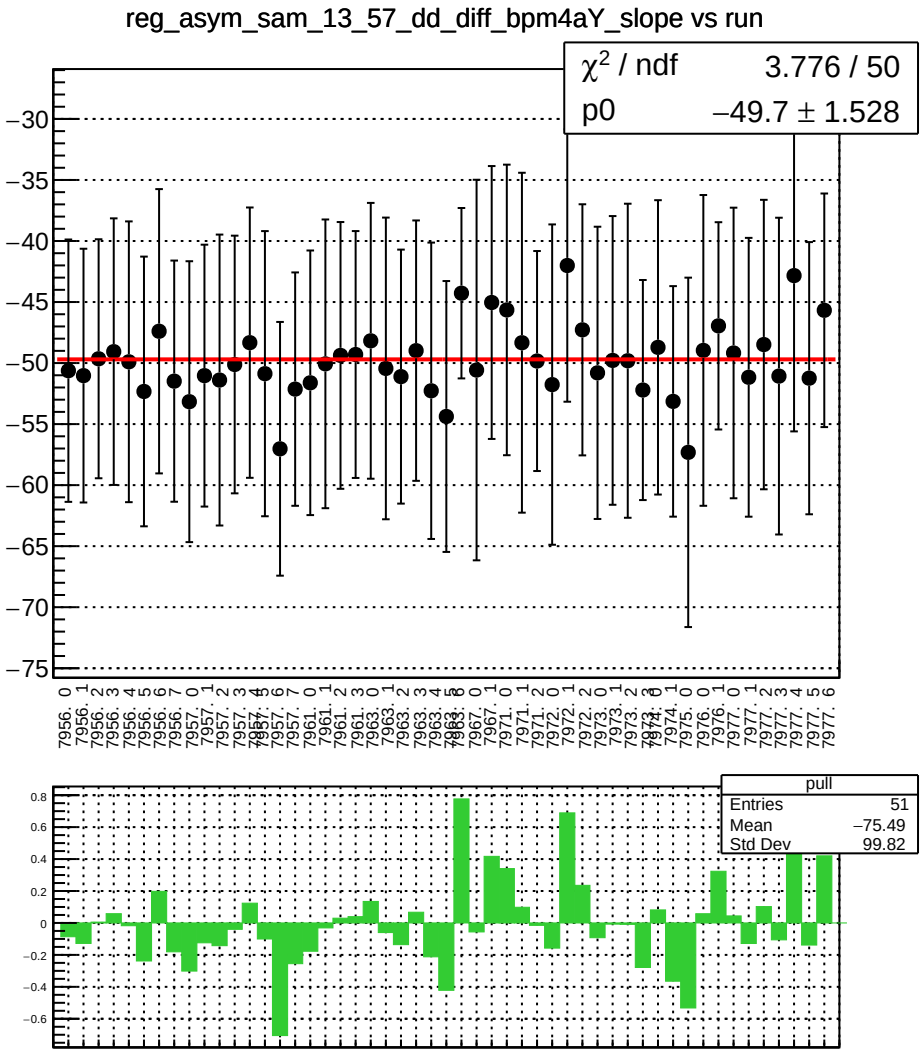

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.224 / 50
p0 42.64 ± 5.137
pull
Entries 51
Mean −123.9
Std Dev 146.3
pull1D
Entries 51
Mean −0.01152
Std Dev 0.2085

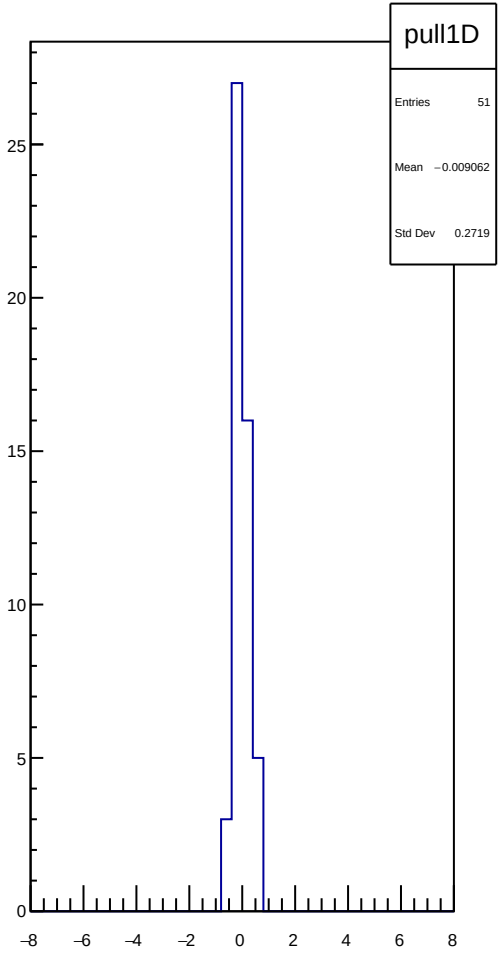

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.533 / 50
p0 −1.473 ± 0.1476
pull
Entries 51
Mean 14.56
Std Dev 23.62

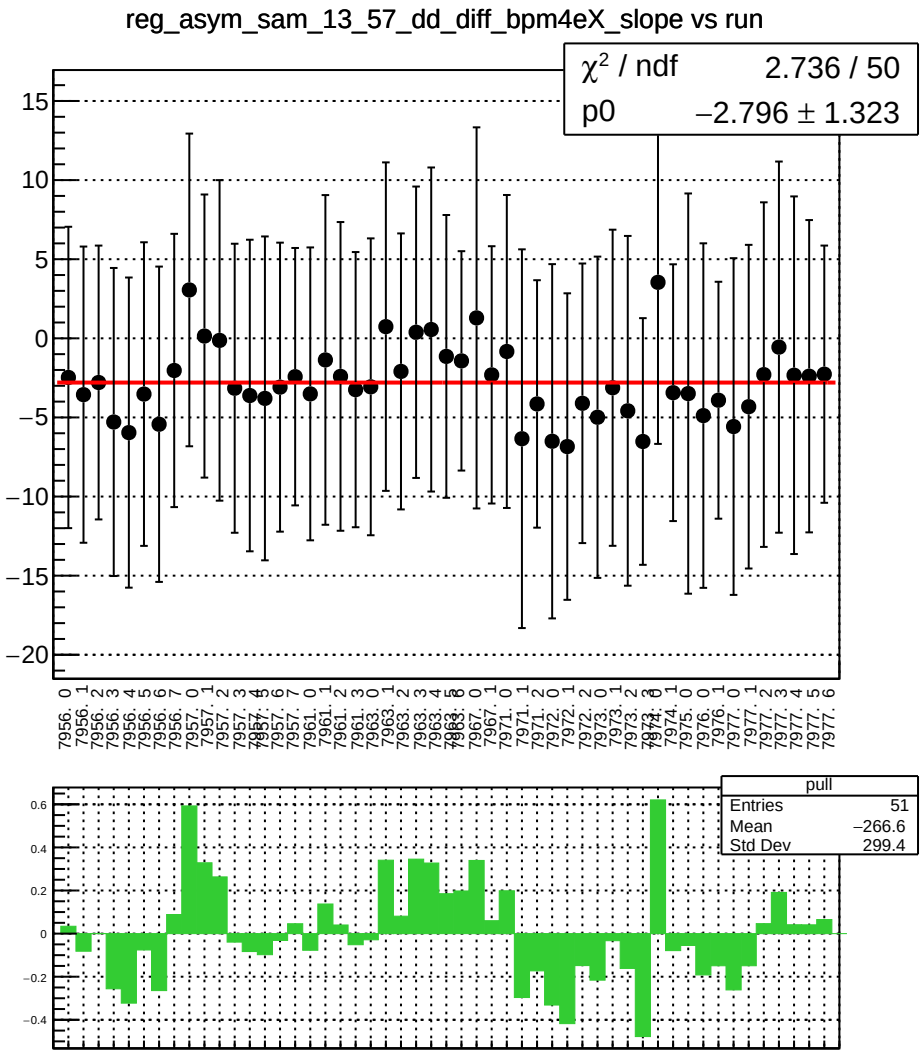

pull1D
Entries 51
Mean −0.01187
Std Dev 0.2226

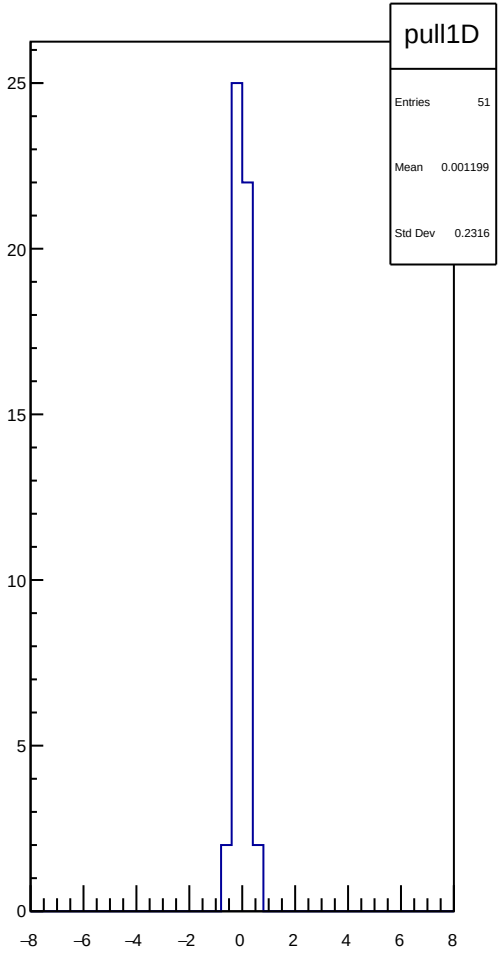

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 6.297 / 50
p0 −27.99 ± 1.485
pull
Entries 51
Mean 84.52
Std Dev 78.1

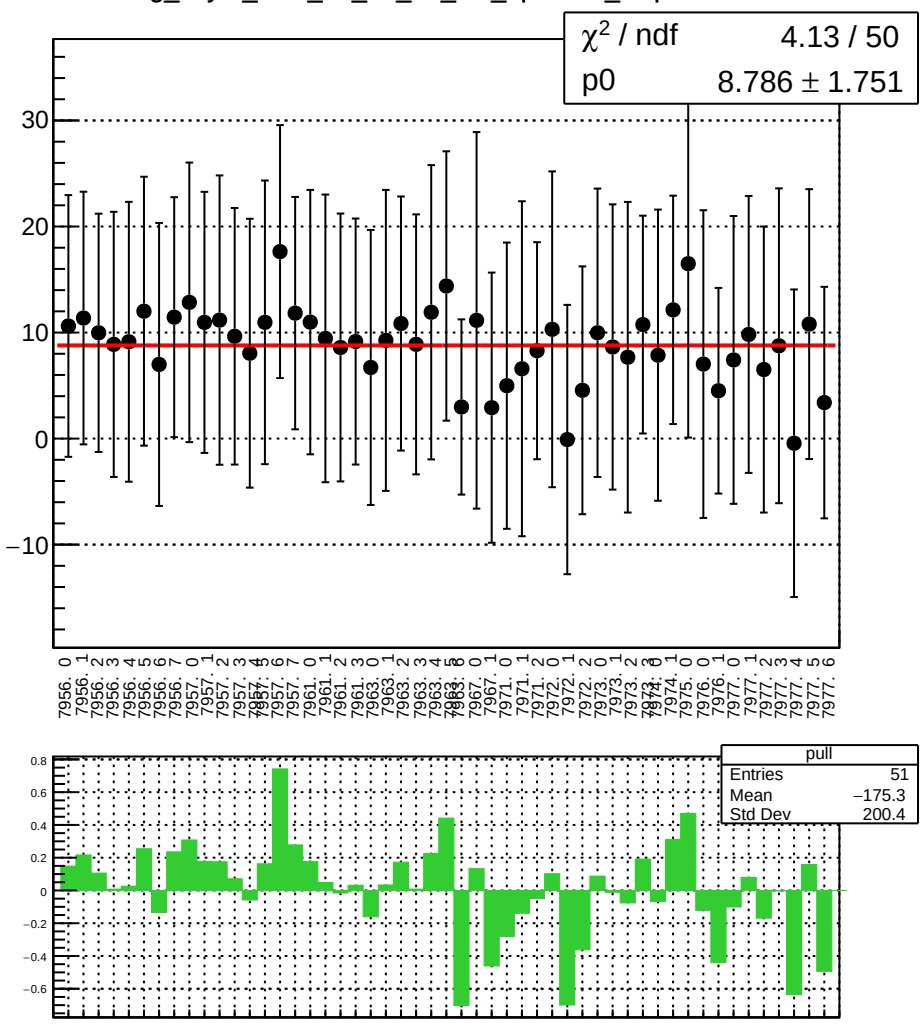

pull1D
Entries 51
Mean −0.00897
Std Dev 0.3513

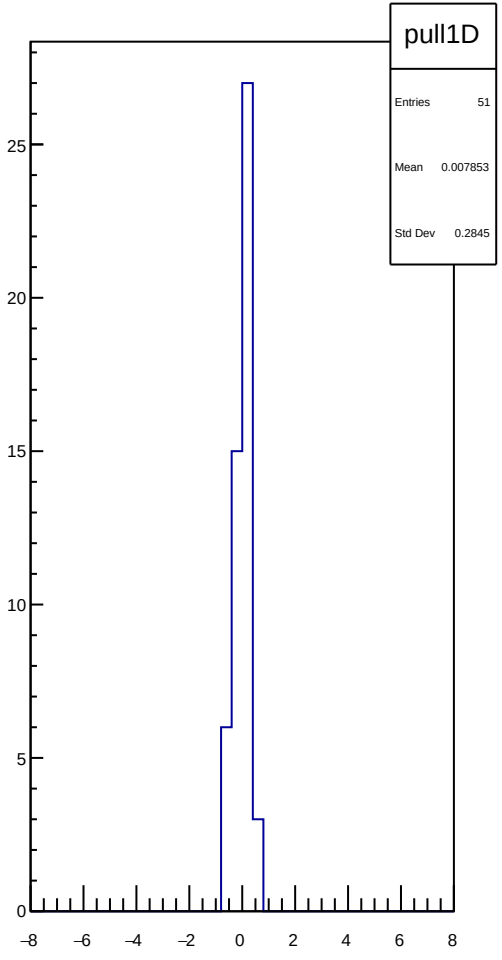

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.776 / 50
p0 −49.7 ± 1.528
pull
Entries 51
Mean −75.49
Std Dev 99.82

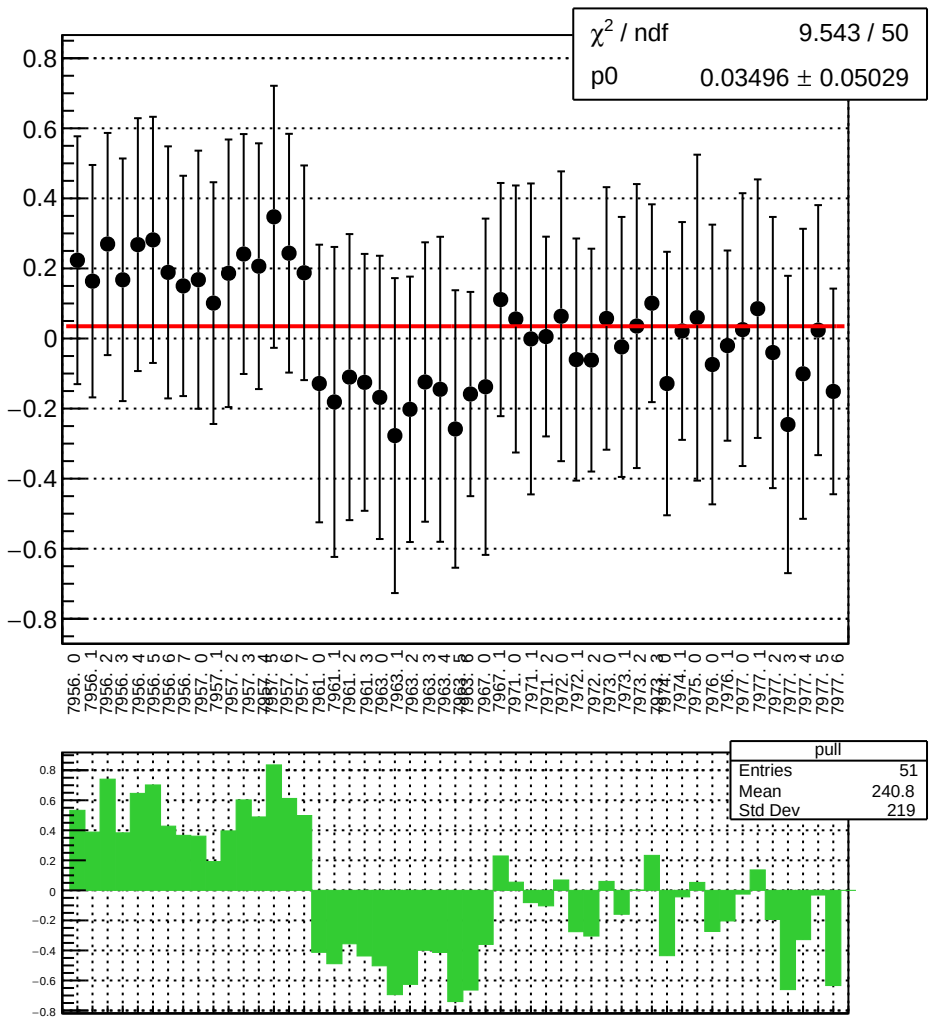

pull1D
Entries 51
Mean −0.009062
Std Dev 0.2719

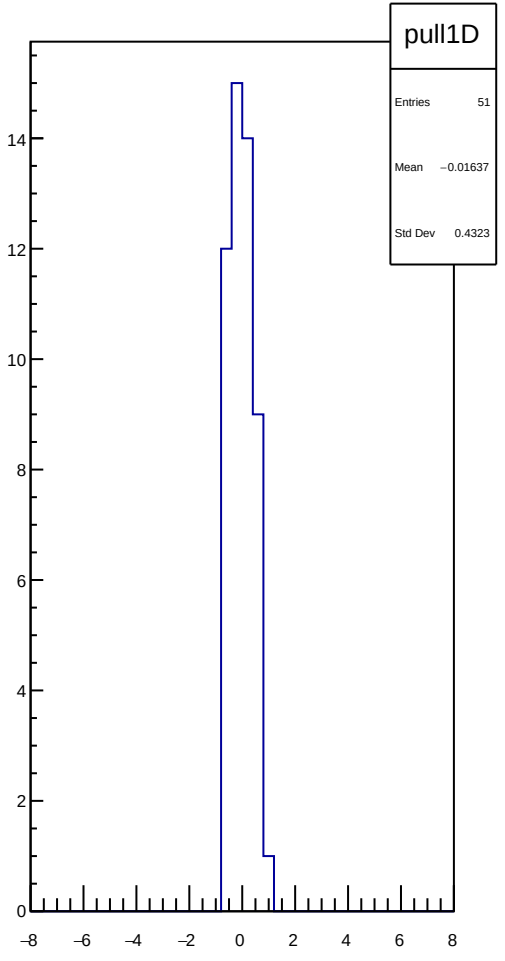

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.736 / 50
p0 −2.796 ± 1.323
pull
Entries 51
Mean −266.6
Std Dev 299.4

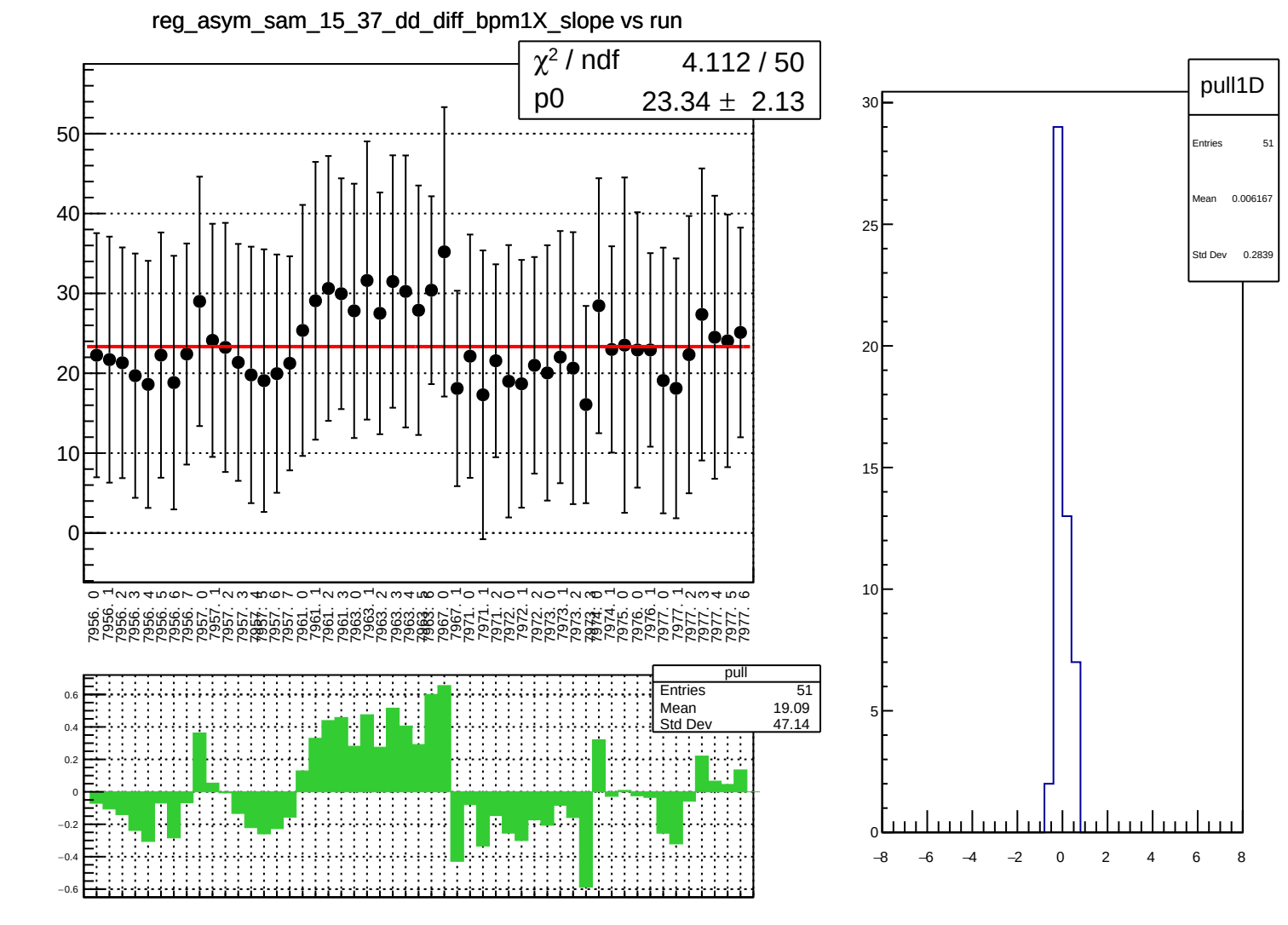

pull1D
Entries 51
Mean 0.001199
Std Dev 0.2316

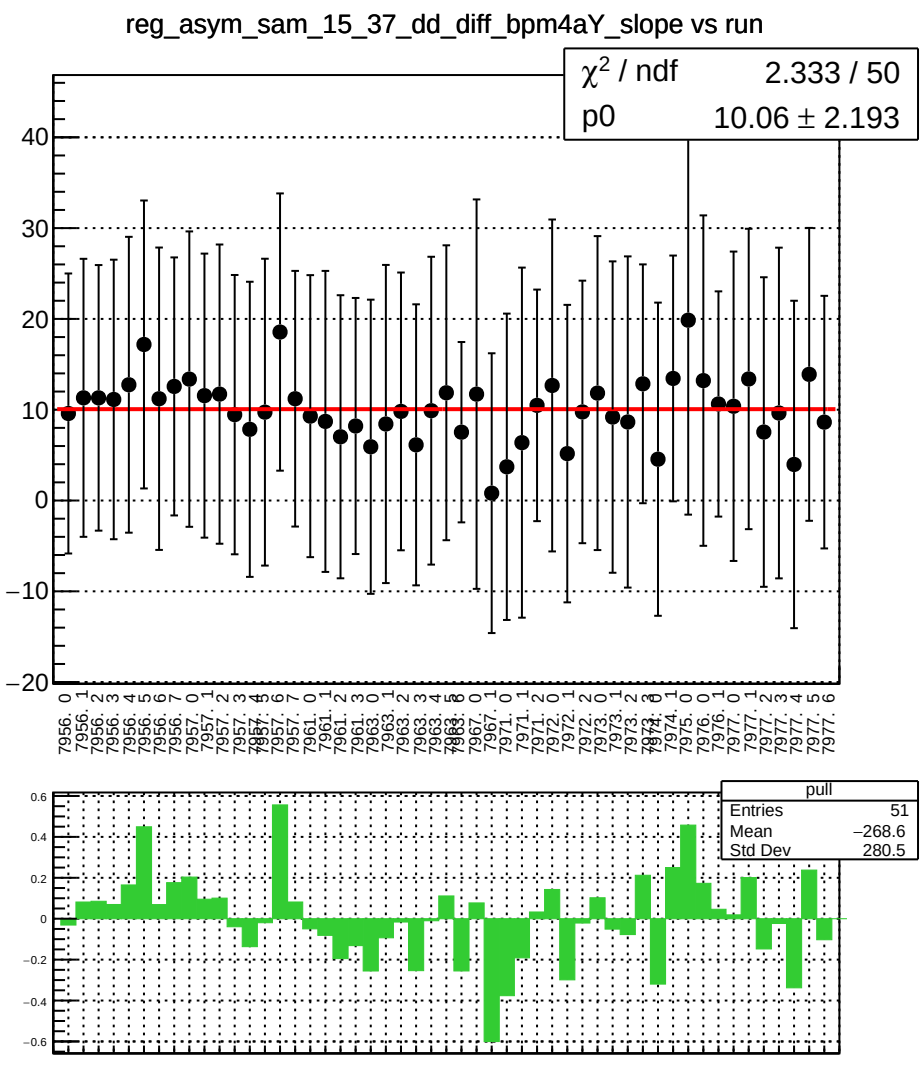

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.13 / 50
p0 8.786 ± 1.751
pull
Entries 51
Mean −175.3
Std Dev 200.4

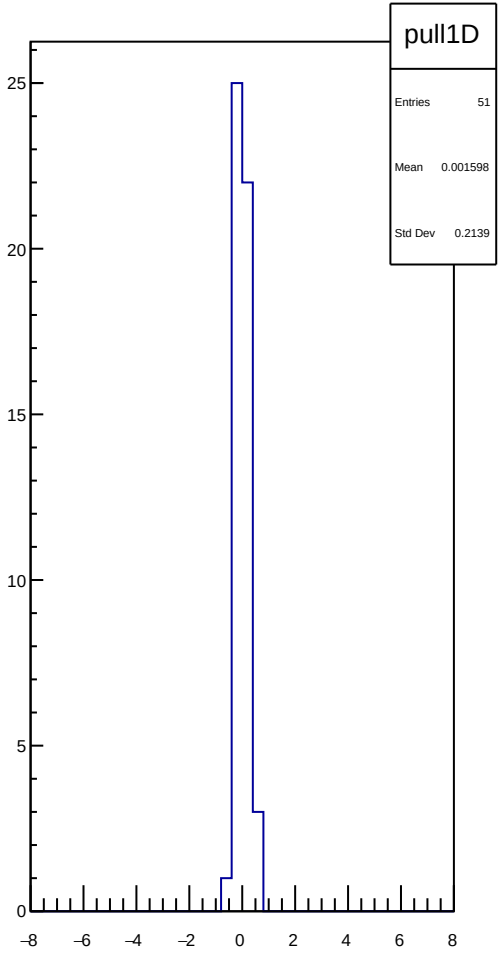

pull1D
Entries 51
Mean 0.007853
Std Dev 0.2845

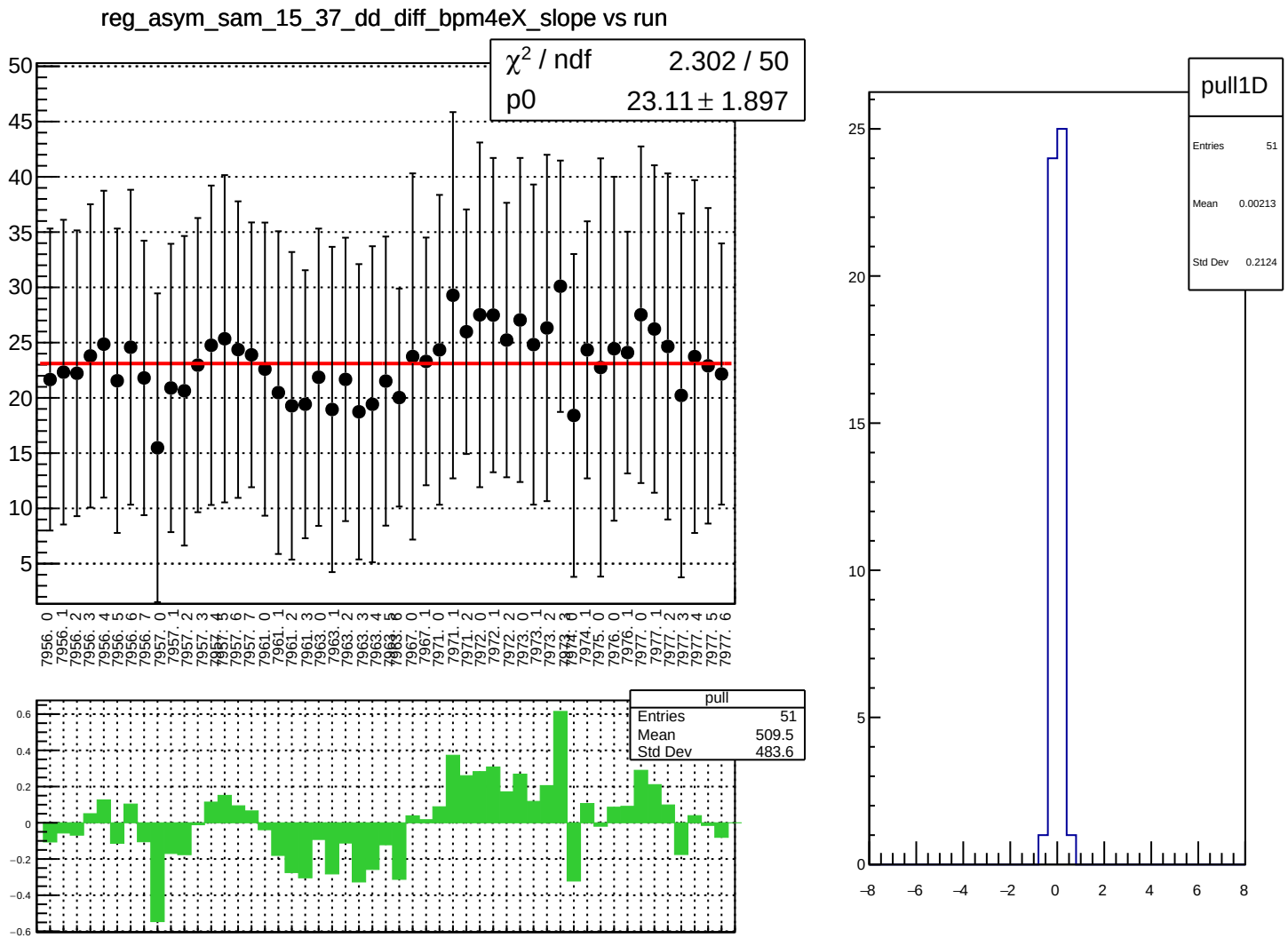

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 9.543 / 50
p0 0.03496 ± 0.05029
pull
Entries 51
Mean 240.8
Std Dev 219

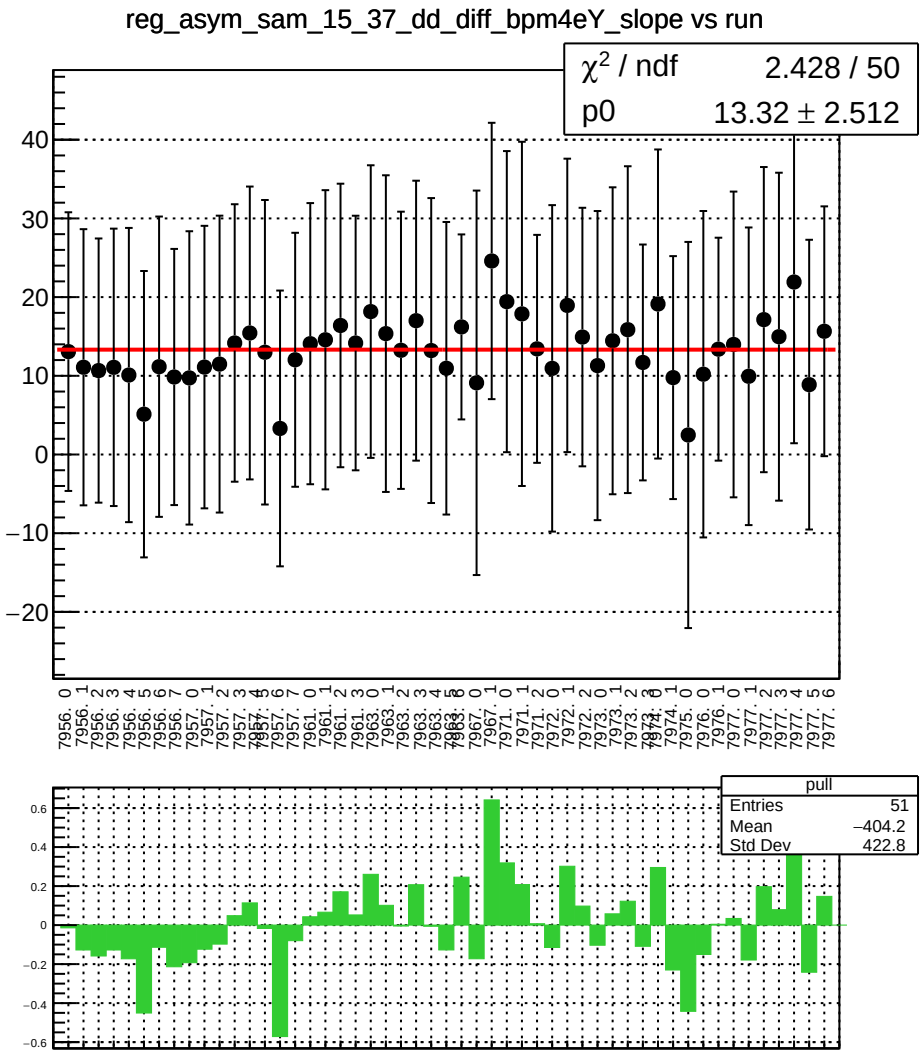

pull1D
Entries 51
Mean −0.01637
Std Dev 0.4323

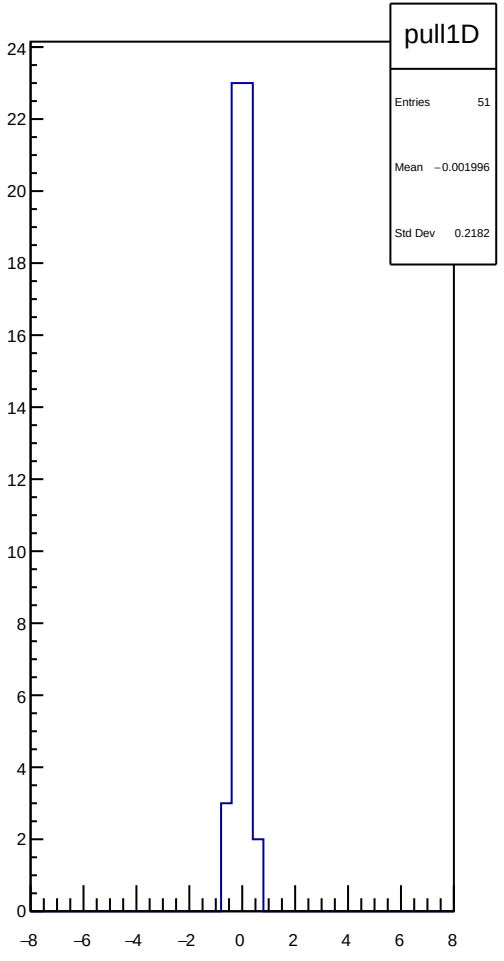

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.112 / 50
p0 23.34 ± 2.13
pull
Entries 51
Mean 19.09
Std Dev 47.14
pull1D
Entries 51
Mean 0.006167
Std Dev 0.2839

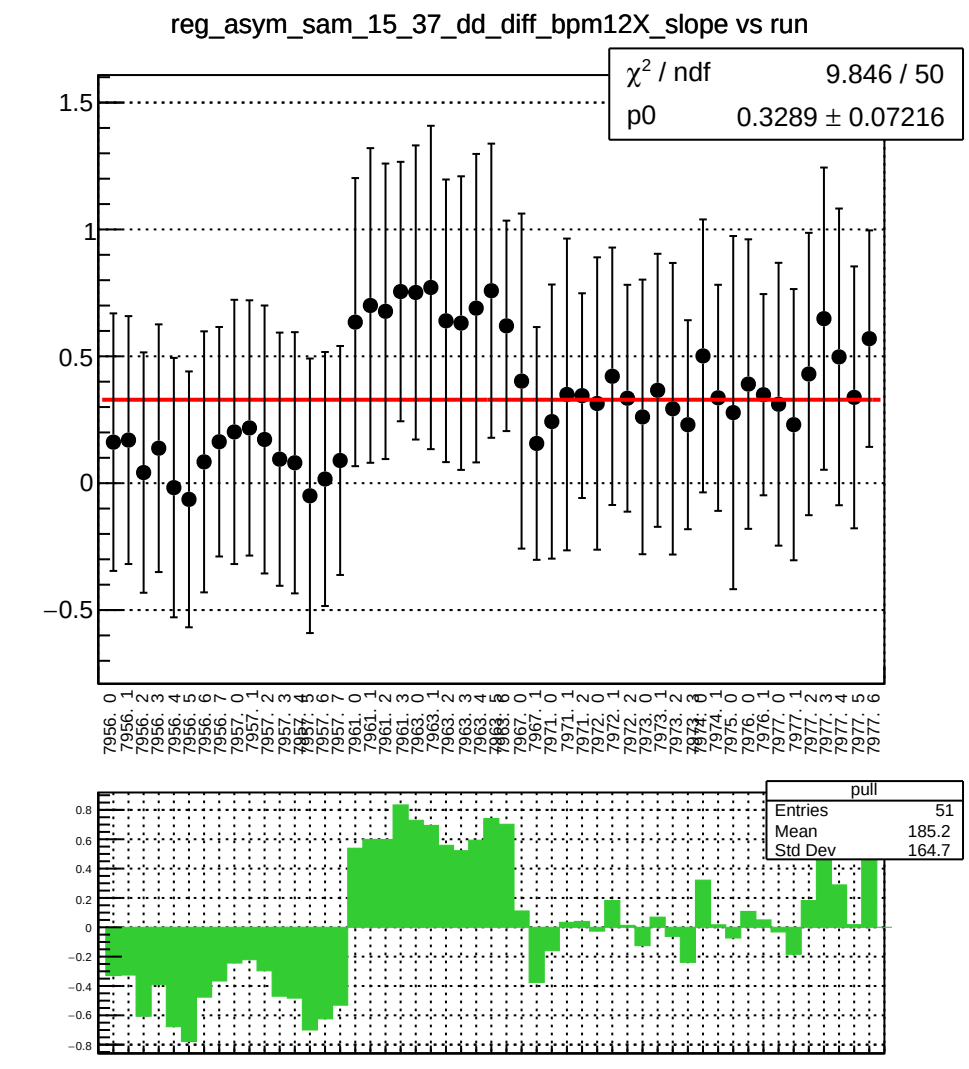

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.333 / 50
p0 10.06 ± 2.193
pull
Entries 51
Mean −268.6
Std Dev 280.5

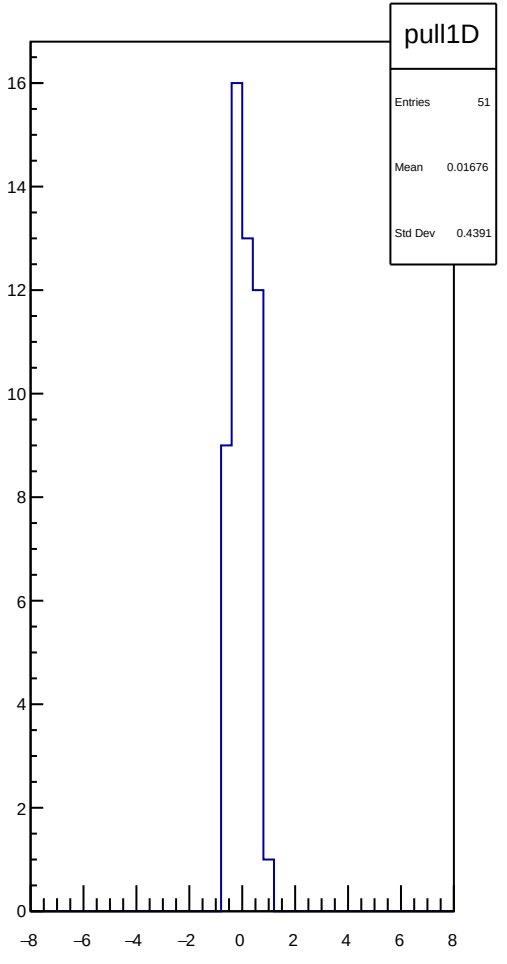

pull1D
Entries 51
Mean 0.001598
Std Dev 0.2139

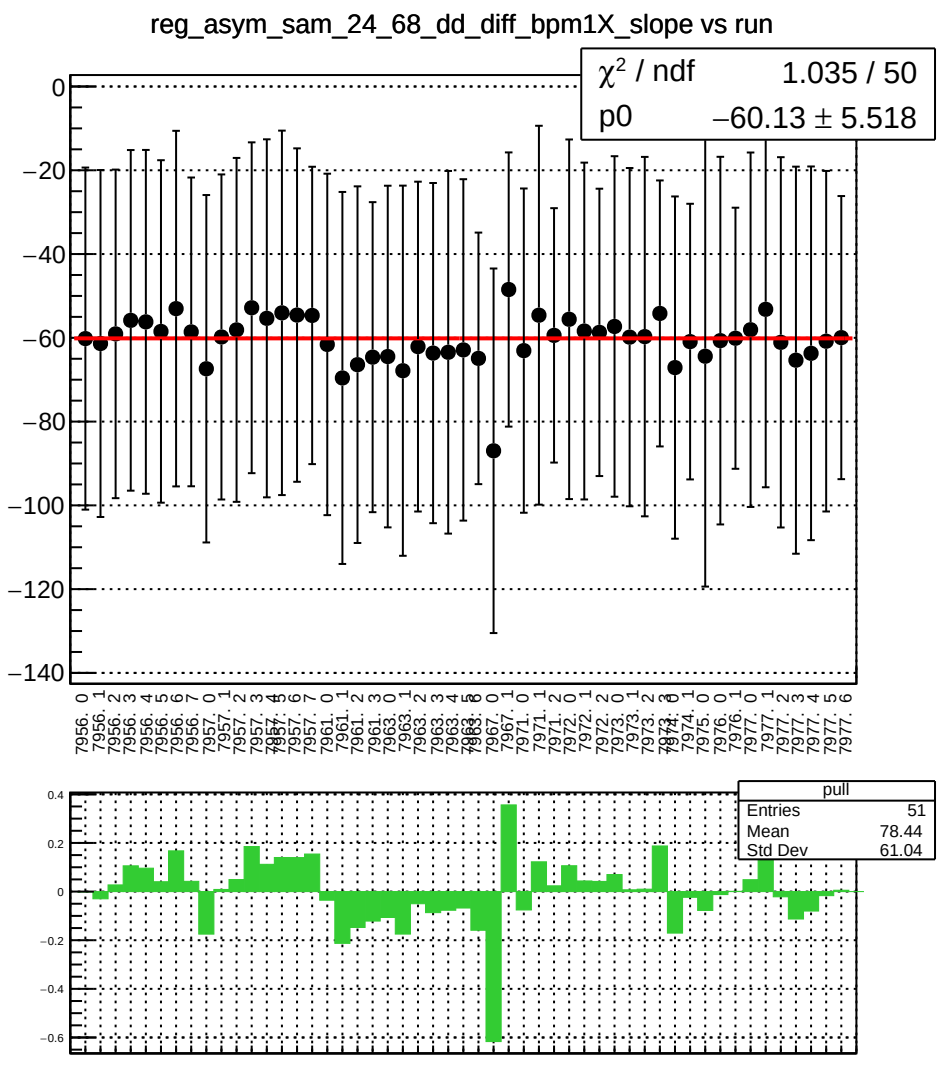

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.302 / 50
p0 23.11 ± 1.897
pull
Entries 51
Mean 509.5
Std Dev 483.6
pull1D
Entries 51
Mean 0.00213
Std Dev 0.2124

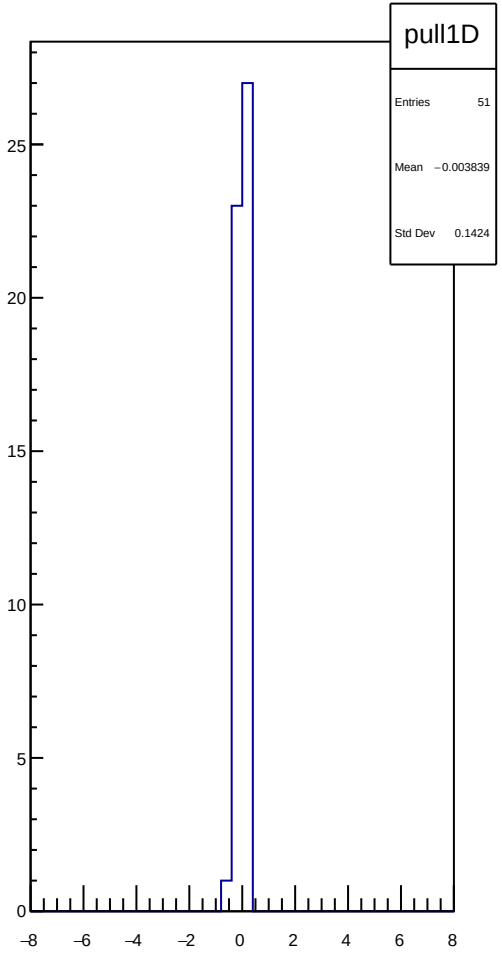

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.428 / 50
p0 13.32 ± 2.512
pull
Entries 51
Mean −404.2
Std Dev 422.8

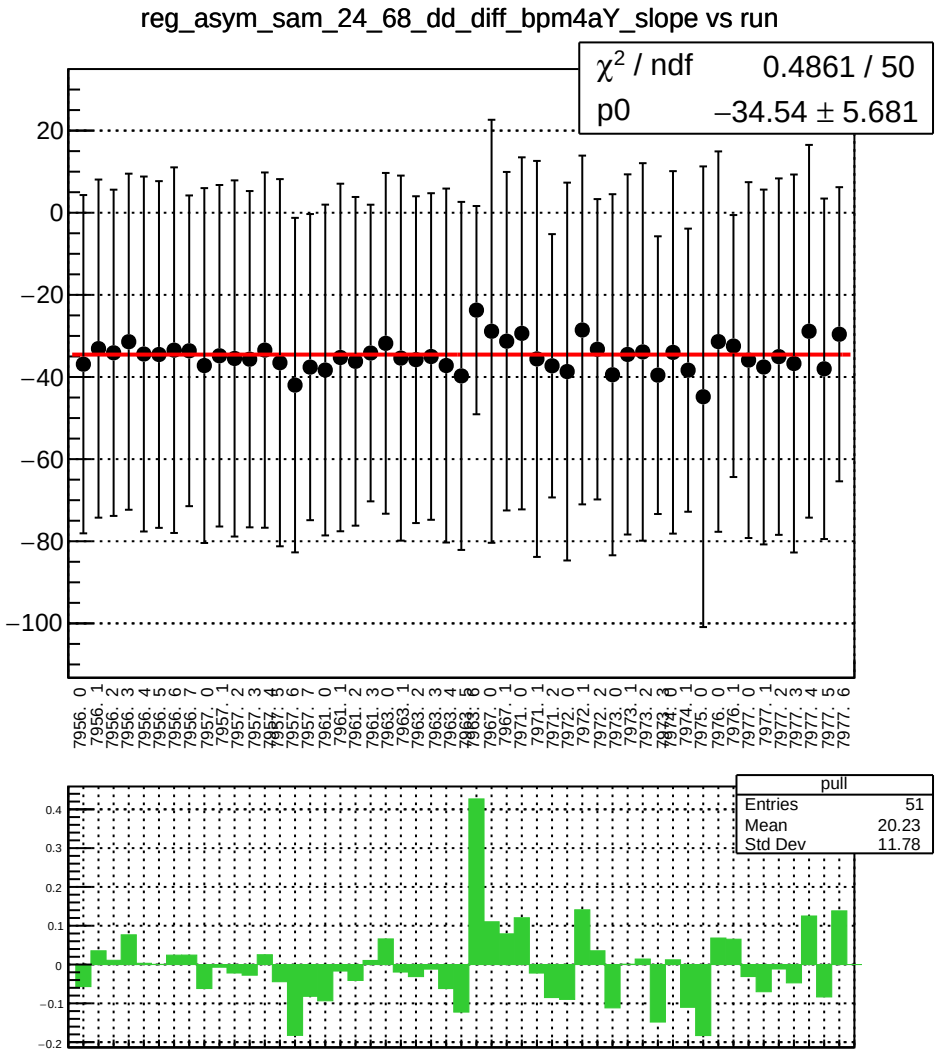

pull1D
Entries 51
Mean −0.001996
Std Dev 0.2182

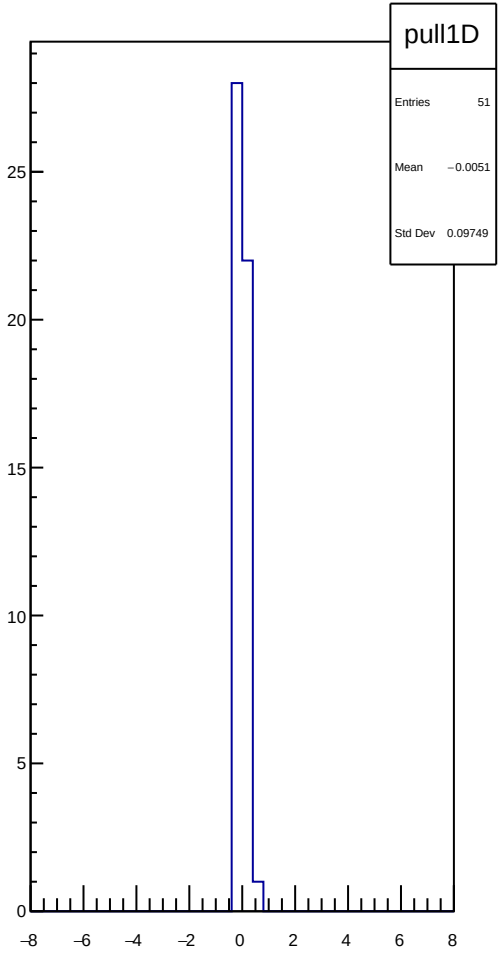

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 9.846 / 50
p0 0.3289 ± 0.07216
pull
Entries 51
Mean 185.2
Std Dev 164.7

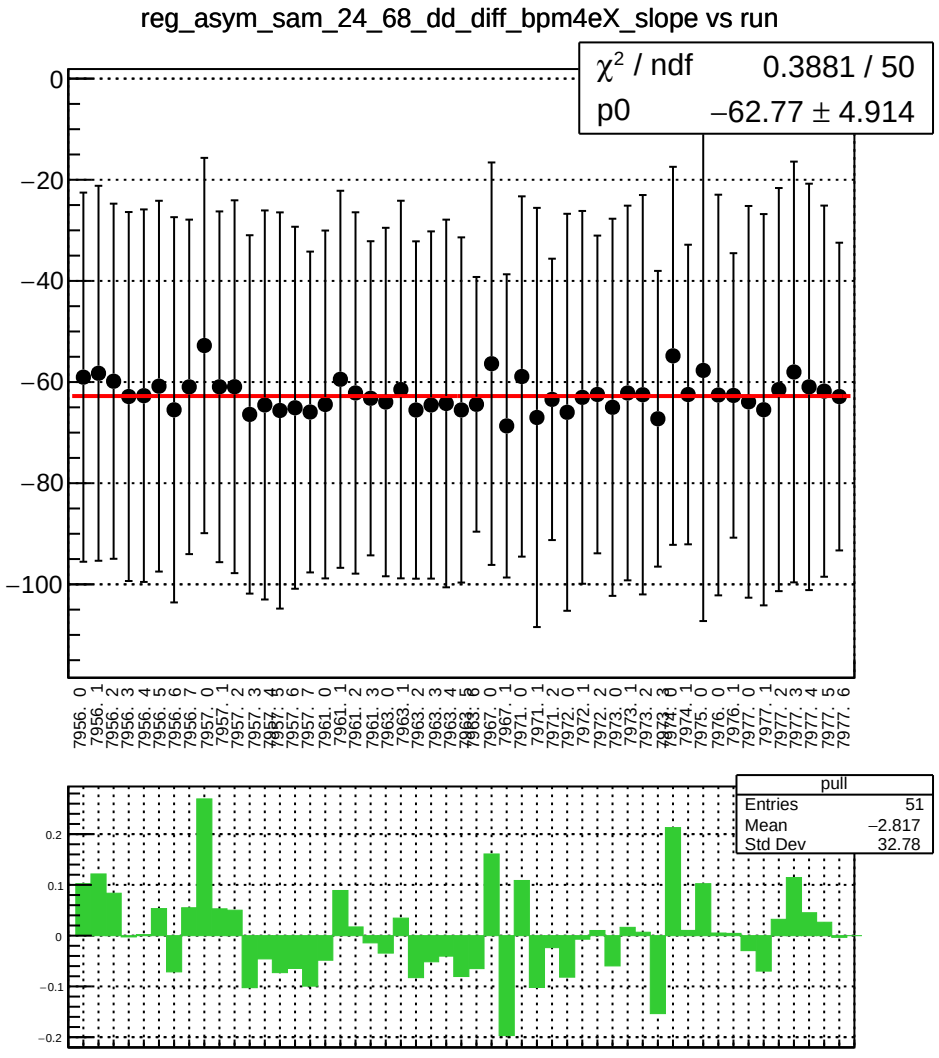

pull1D
Entries 51
Mean 0.01676
Std Dev 0.4391

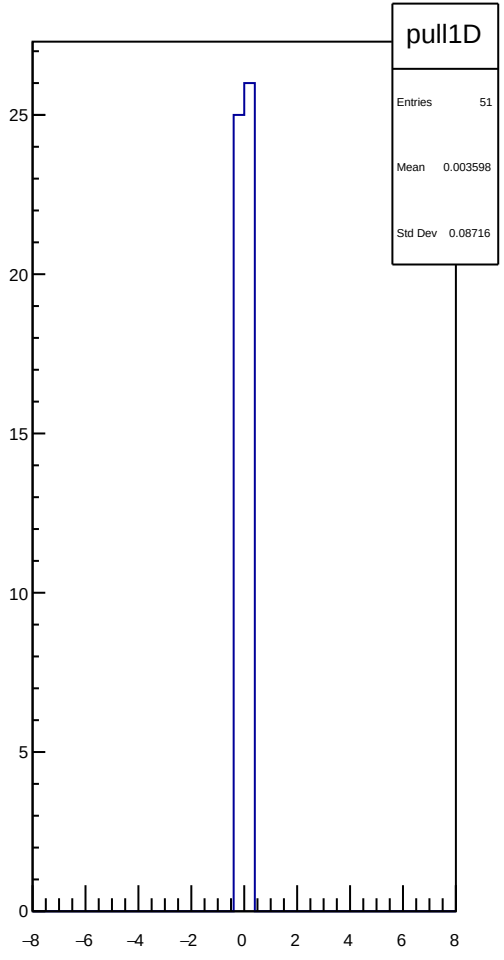

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.035 / 50
p0 −60.13 ± 5.518
pull
Entries 51
Mean 78.44
Std Dev 61.04

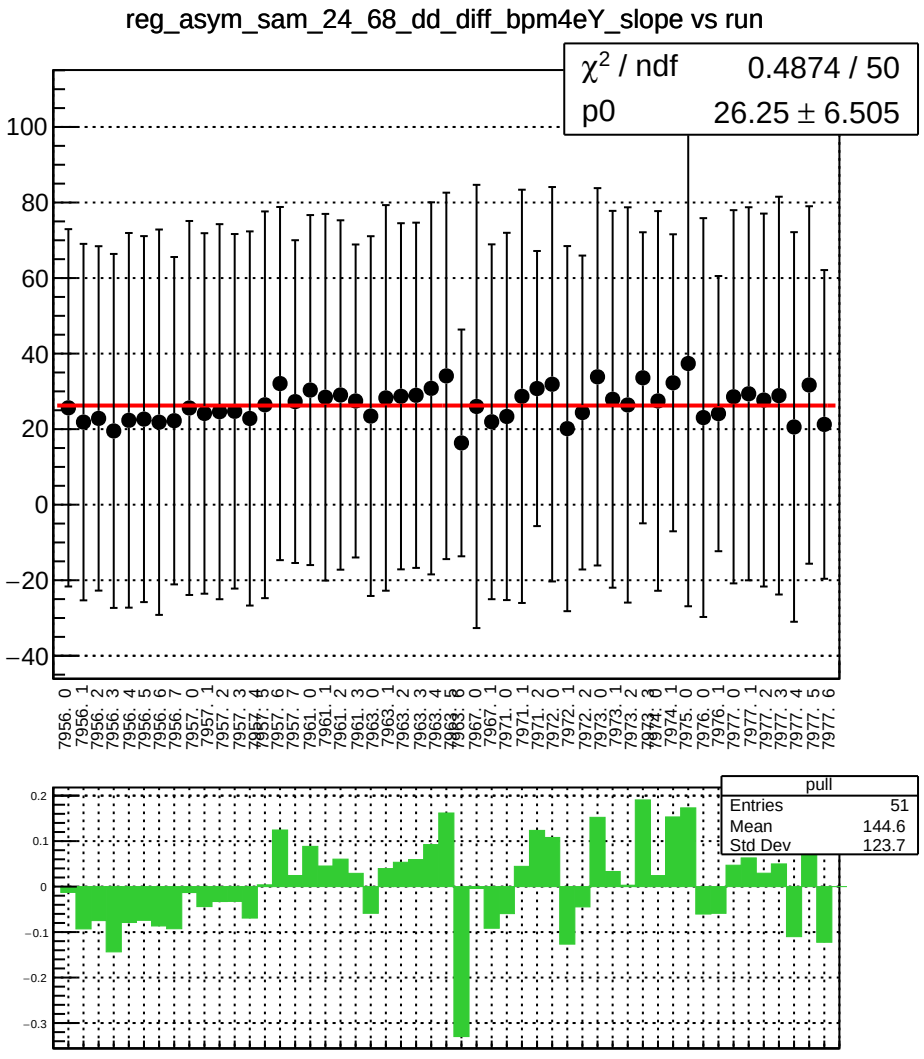

pull1D
Entries 51
Mean −0.003839
Std Dev 0.1424

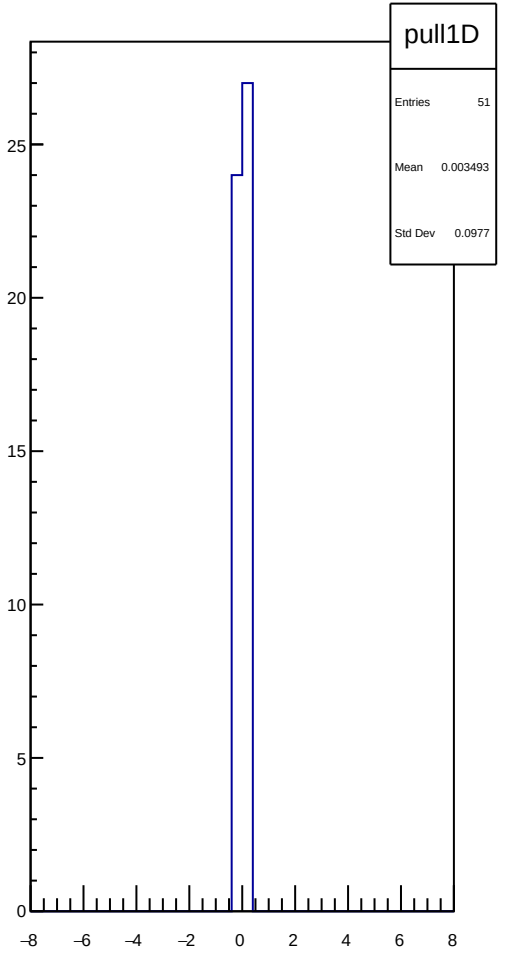

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.4861 / 50
p0 −34.54 ± 5.681
pull
Entries 51
Mean 20.23
Std Dev 11.78

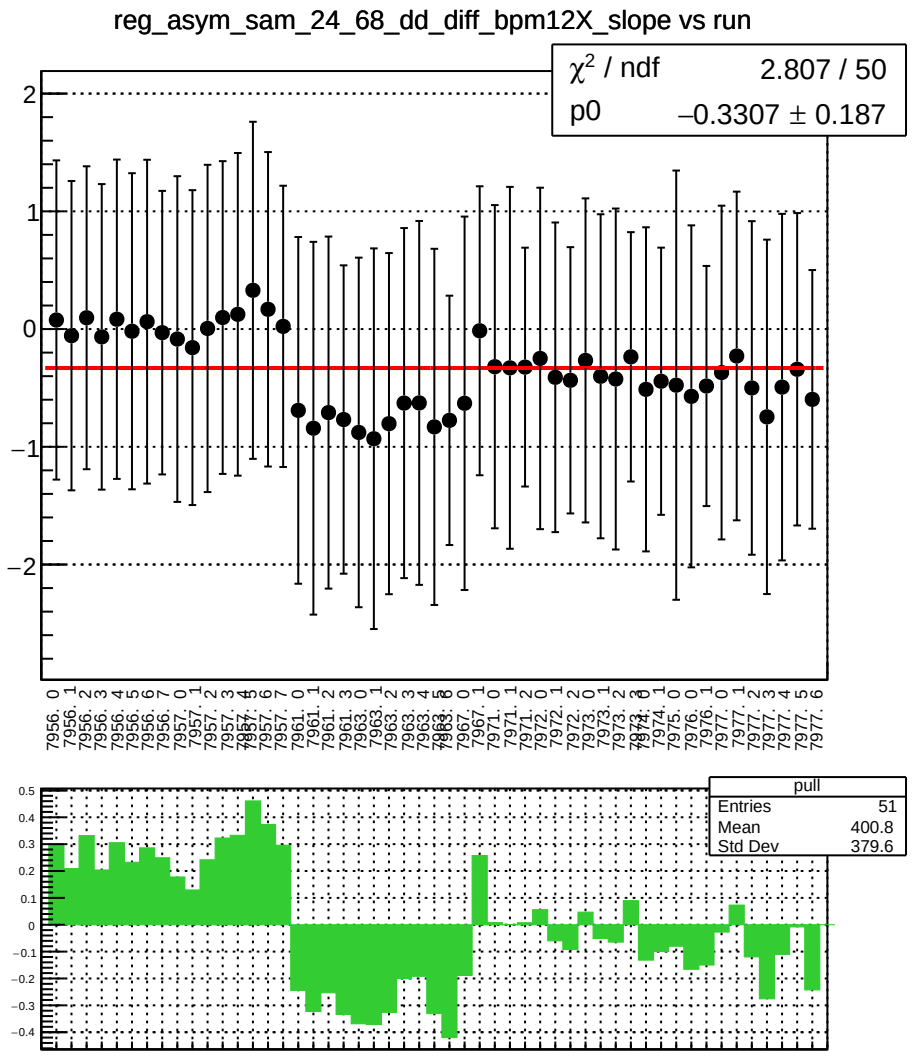

pull1D
Entries 51
Mean −0.0051
Std Dev 0.09749

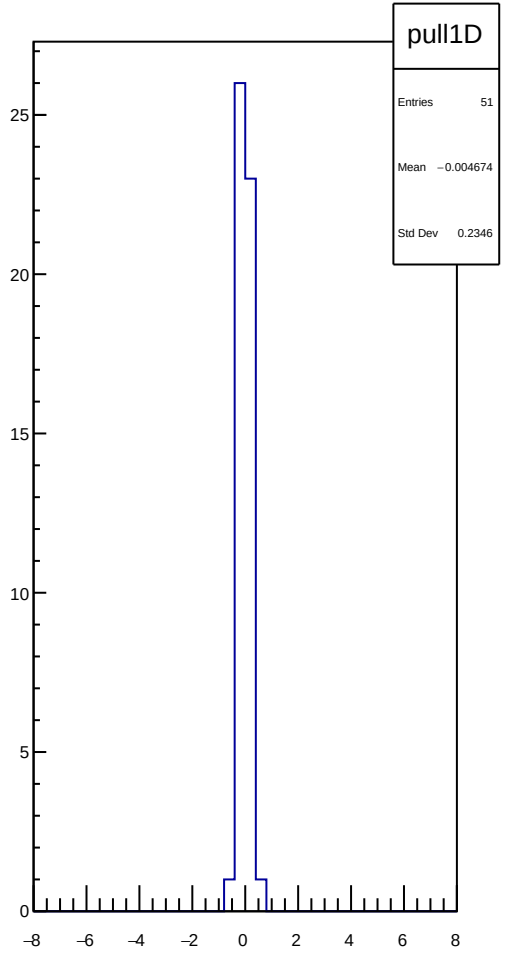

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.3881 / 50
p0 −62.77 ± 4.914
pull
Entries 51
Mean −2.817
Std Dev 32.78

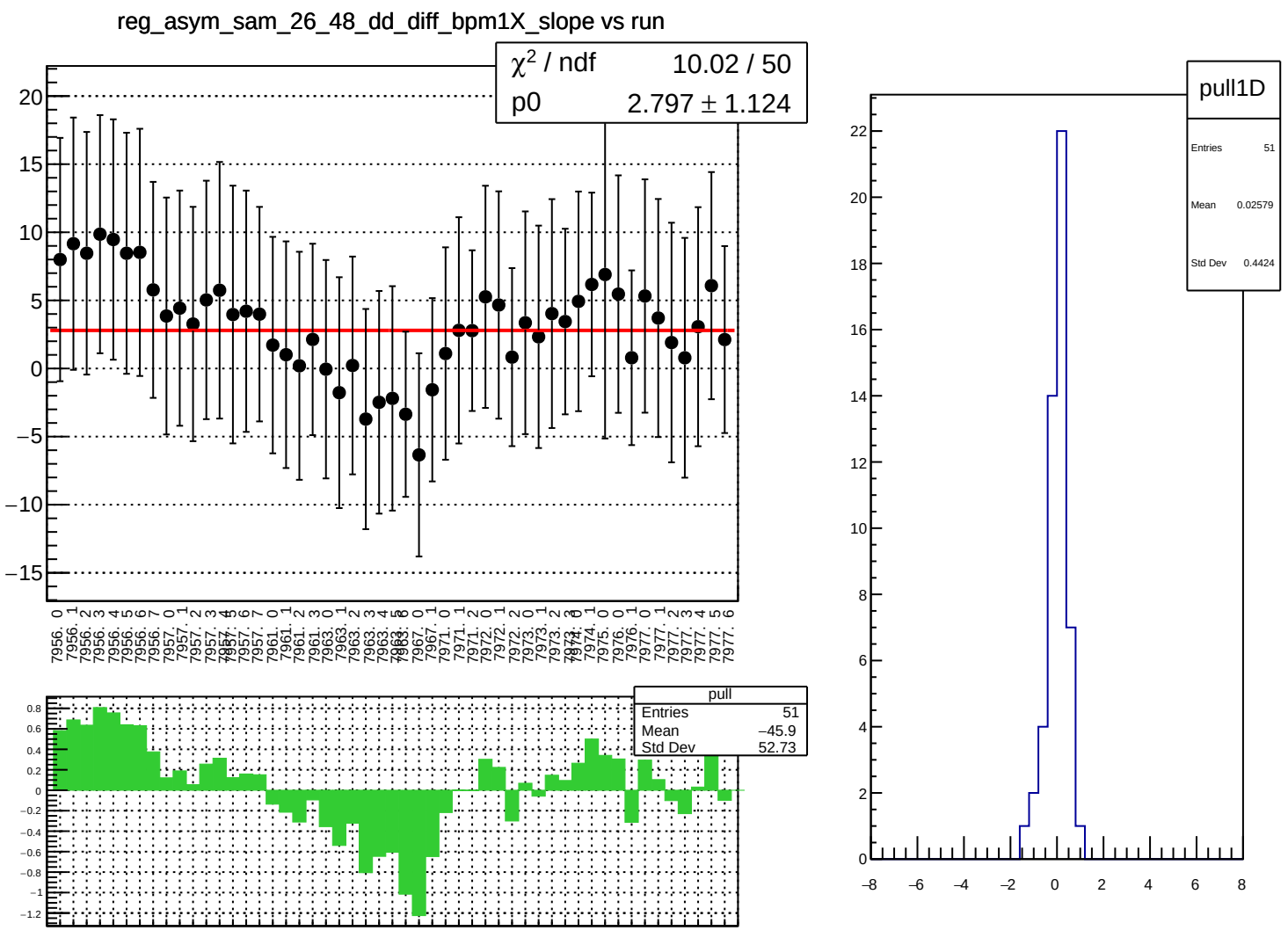

pull1D
Entries 51
Mean 0.003598
Std Dev 0.08716

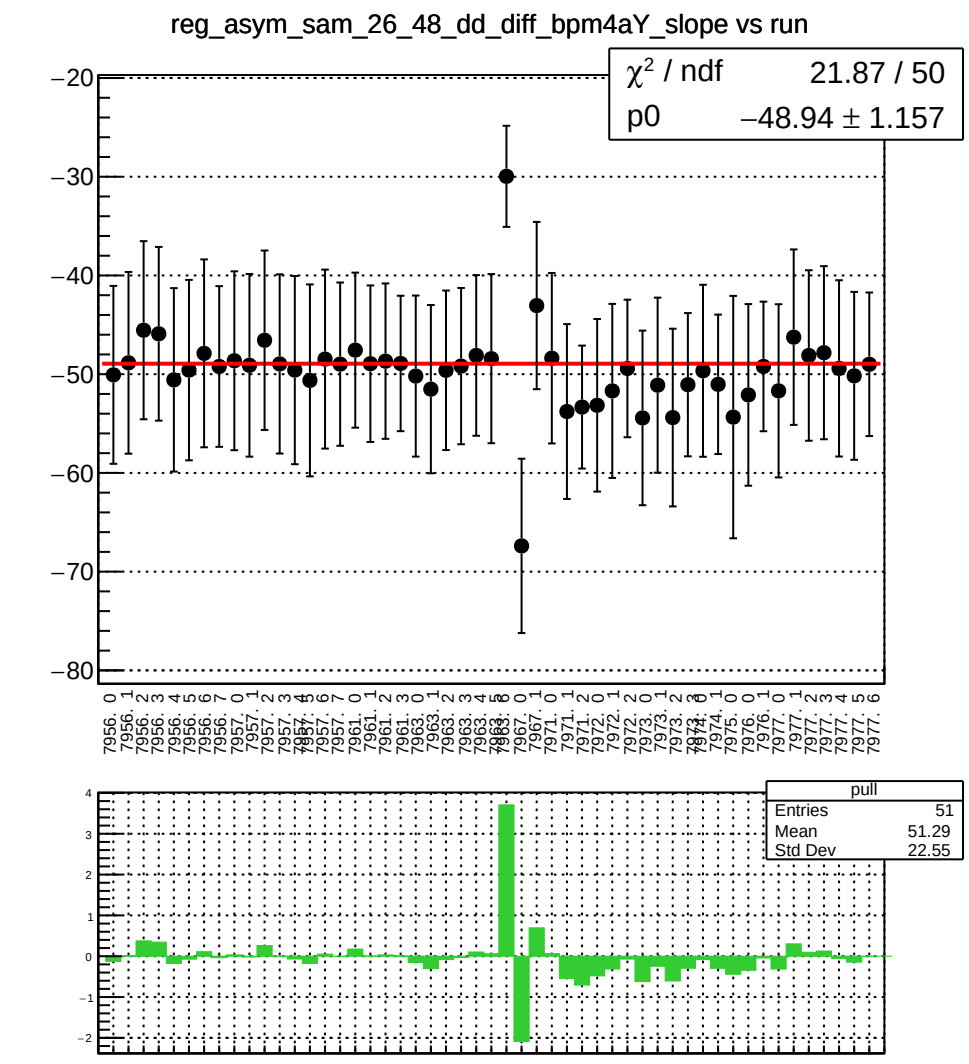

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.4874 / 50
p0 26.25 ± 6.505
pull
Entries 51
Mean 144.6
Std Dev 123.7

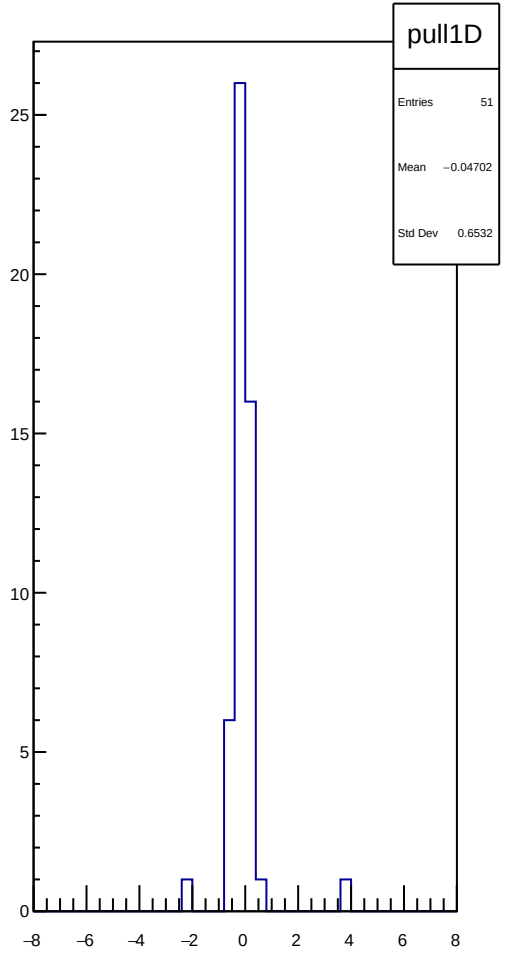

pull1D
Entries 51
Mean 0.003493
Std Dev 0.0977

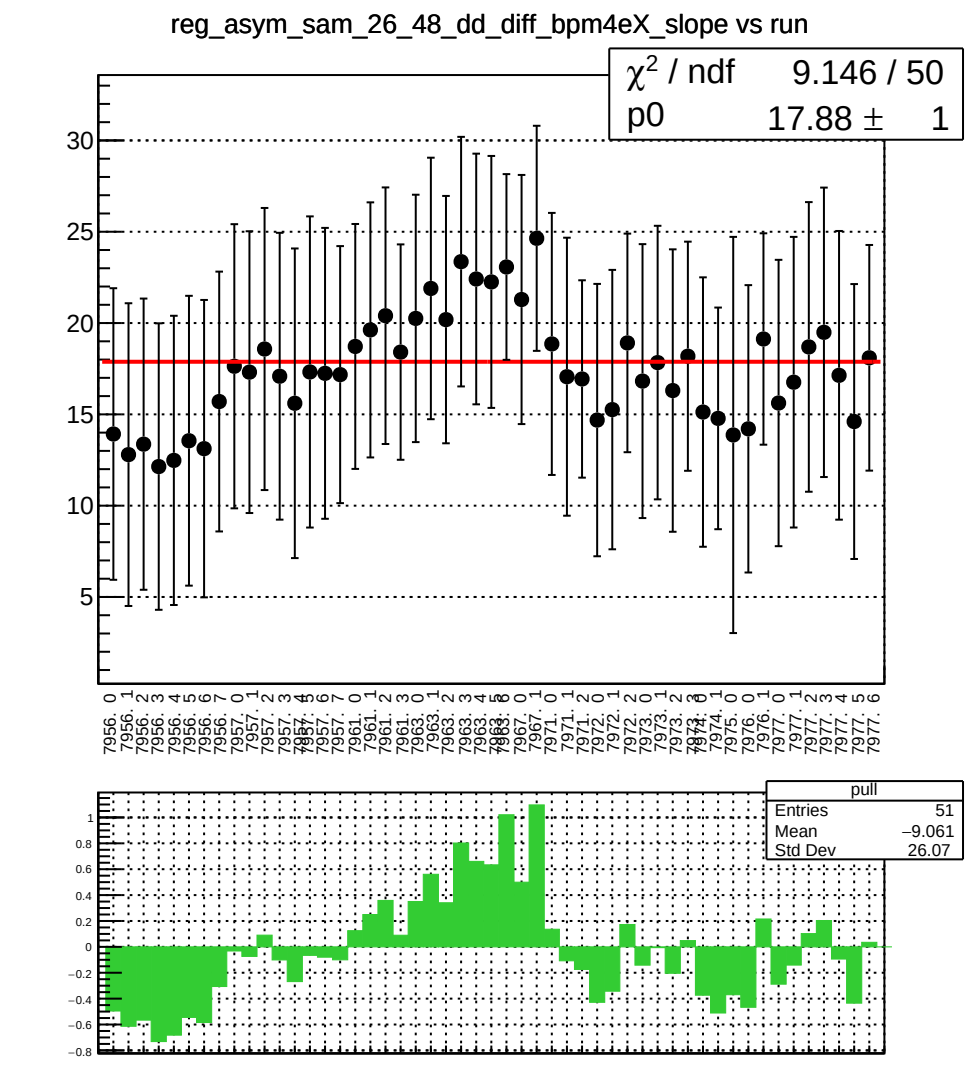

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 2.807 / 50
p0 −0.3307 ± 0.187
pull
Entries 51
Mean 400.8
Std Dev 379.6

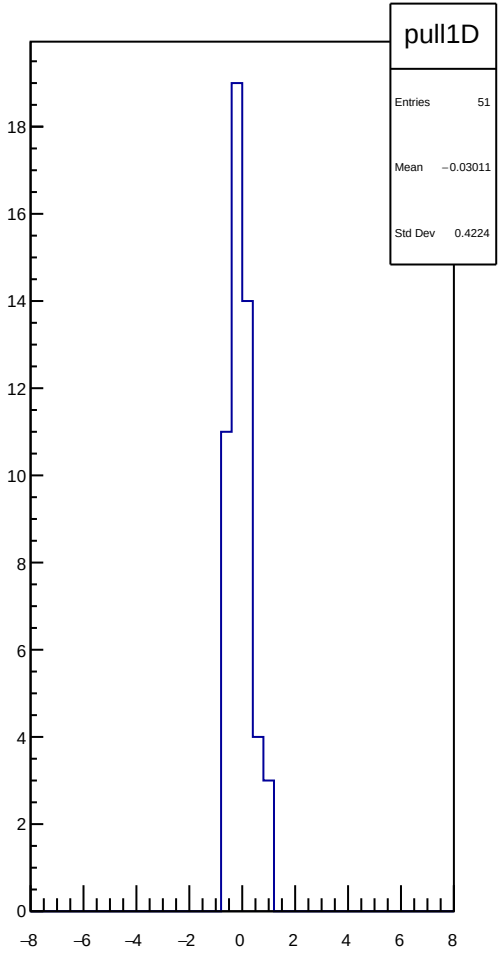

pull1D
Entries 51
Mean −0.004674
Std Dev 0.2346

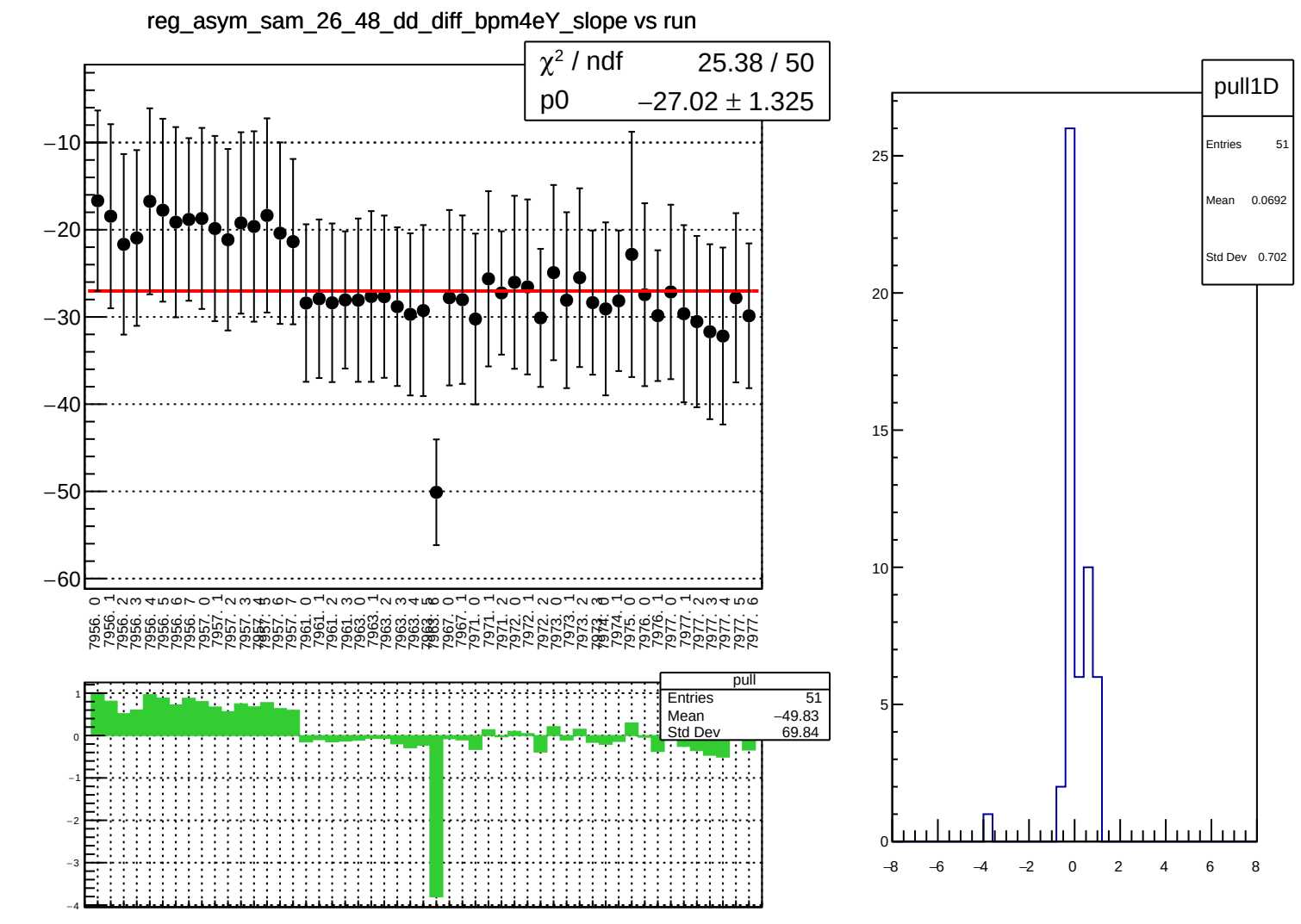

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 10.02 / 50
p0 2.797 ± 1.124
pull
Entries 51
Mean −45.9
Std Dev 52.73
pull1D
Entries 51
Mean 0.02579
Std Dev 0.4424

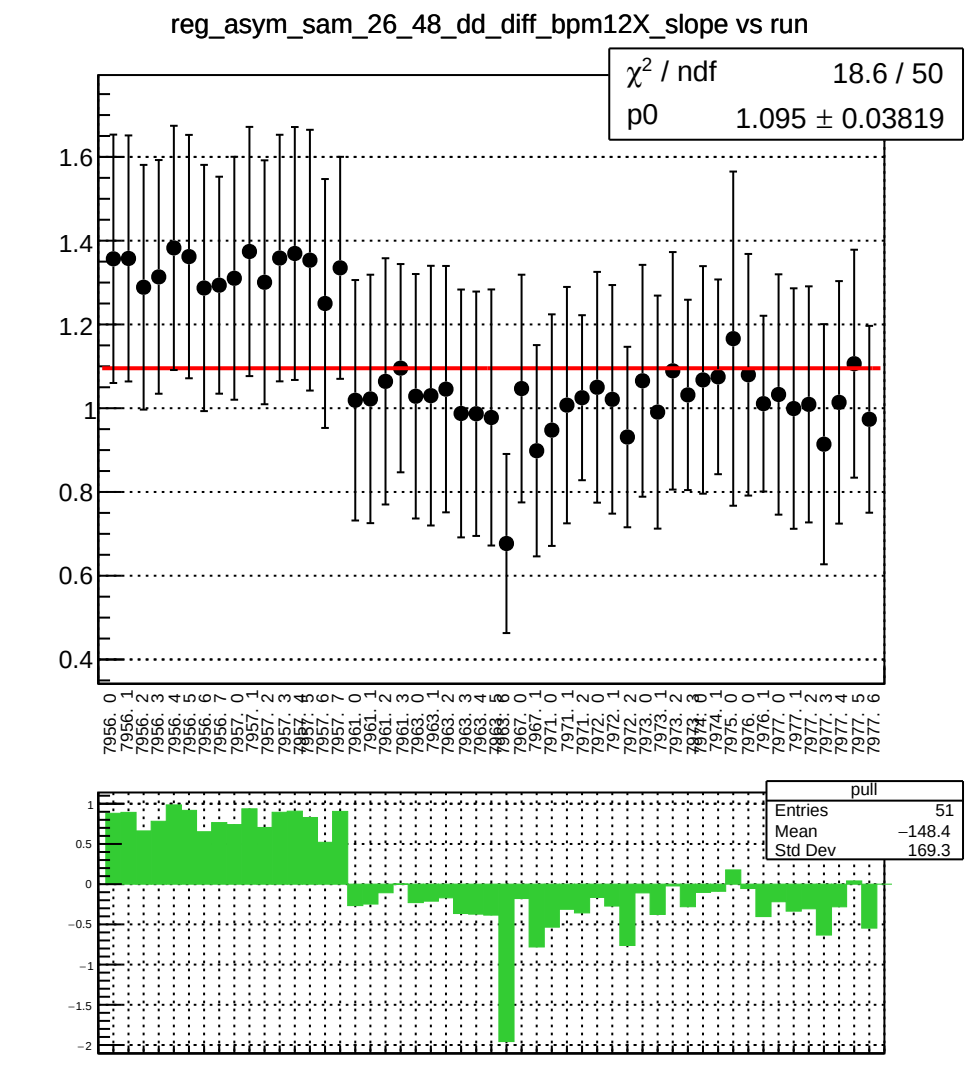

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.87 / 50
p0 −48.94 ± 1.157
pull
Entries 51
Mean 51.29
Std Dev 22.55

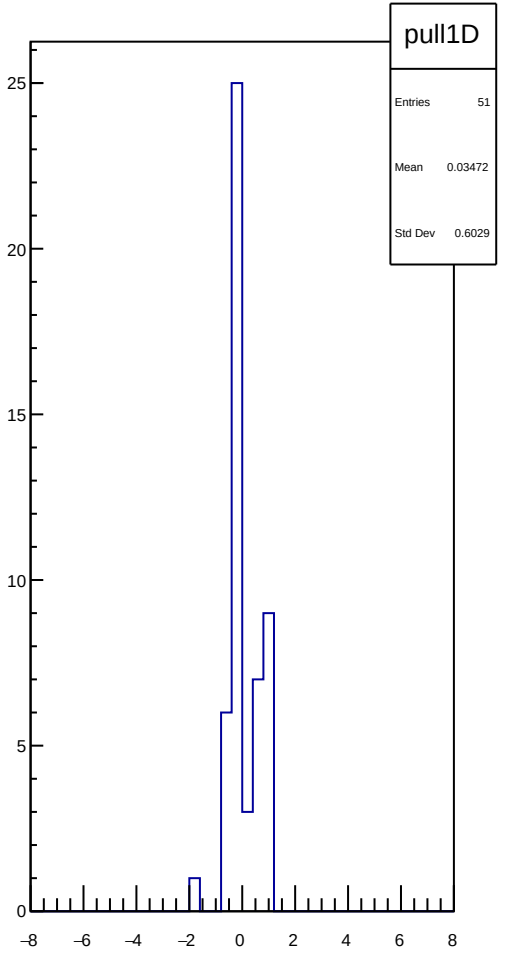

pull1D
Entries 51
Mean −0.04702
Std Dev 0.6532

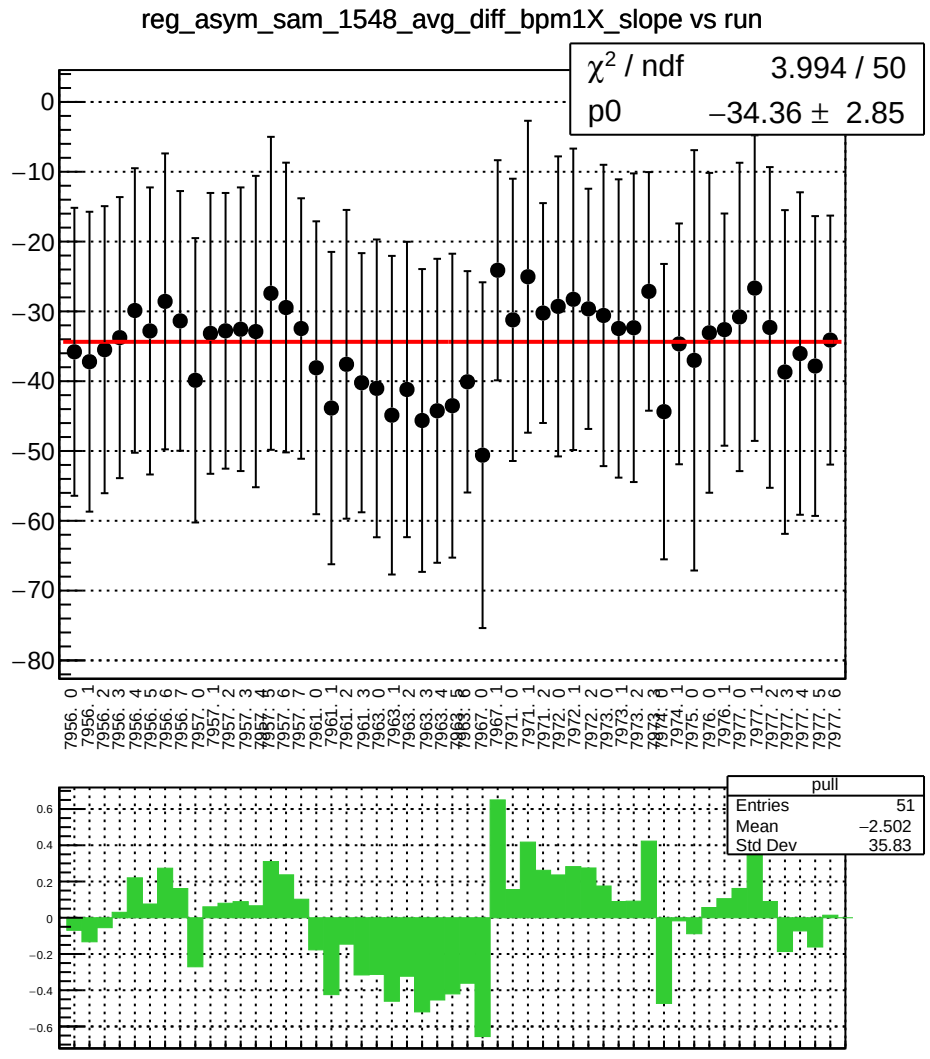

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.146 / 50
p0 17.88 ± 1
pull
Entries 51
Mean −9.061
Std Dev 26.07

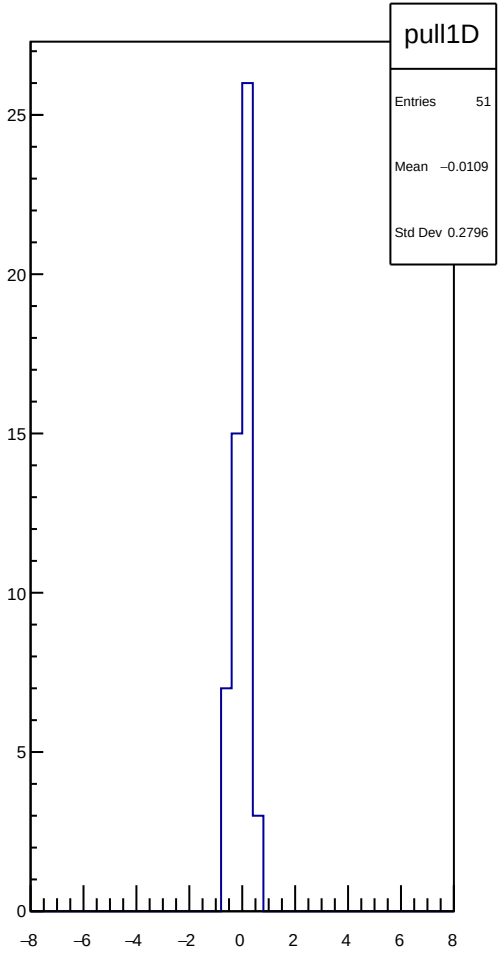

pull1D
Entries 51
Mean −0.03011
Std Dev 0.4224

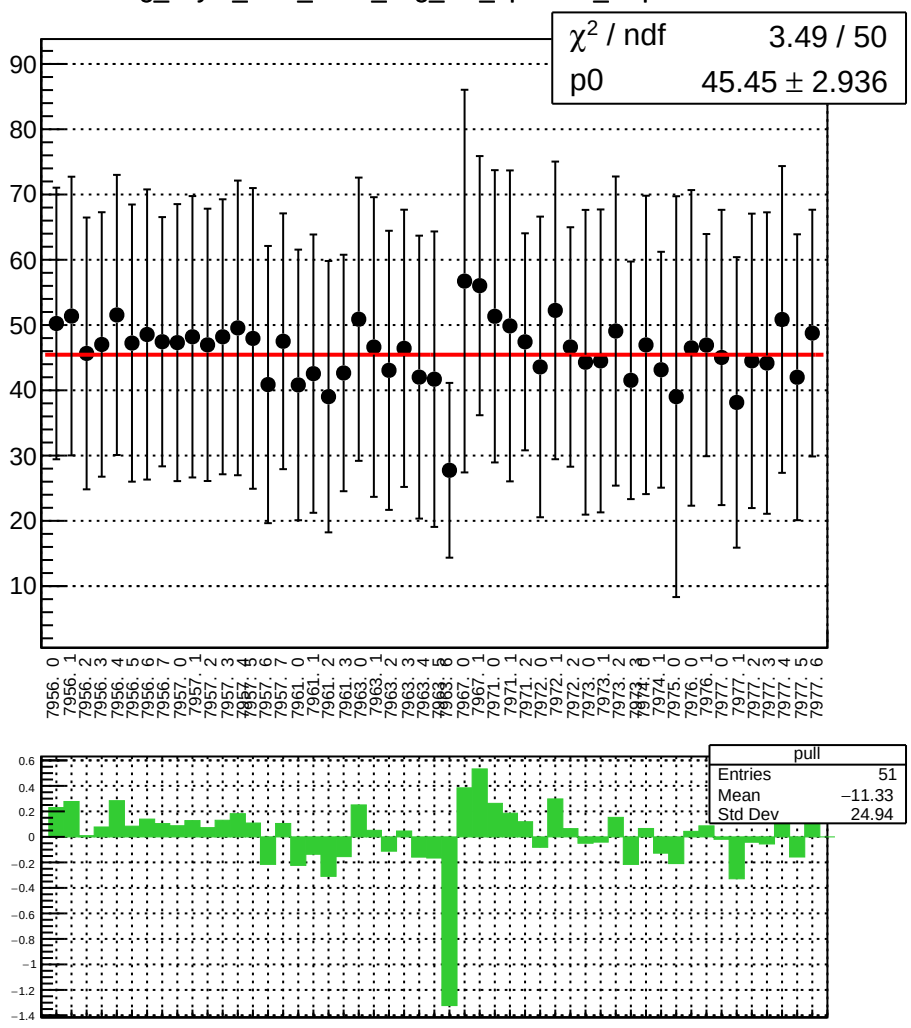

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.38 / 50
p0 −27.02 ± 1.325
pull
Entries 51
Mean −49.83
Std Dev 69.84
pull1D
Entries 51
Mean 0.0692
Std Dev 0.702

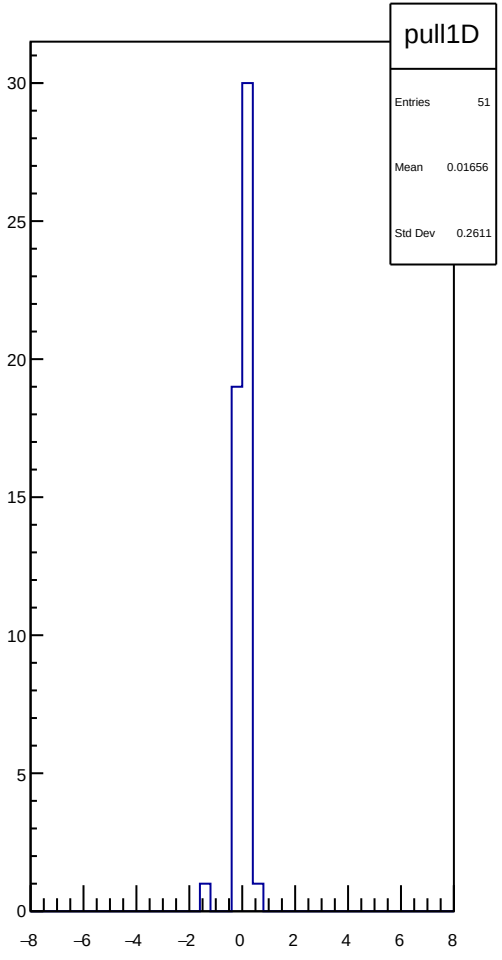

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 18.6 / 50
p0 1.095 ± 0.03819
pull
Entries 51
Mean −148.4
Std Dev 169.3

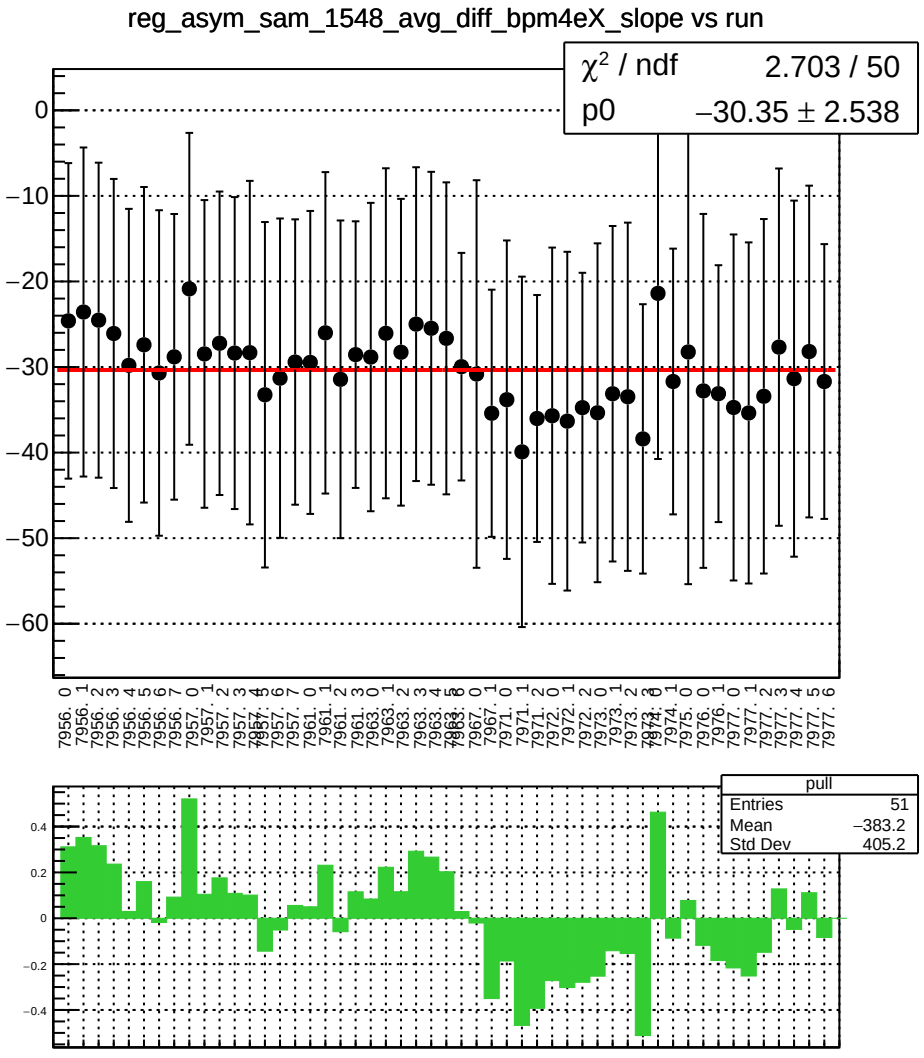

pull1D
Entries 51
Mean 0.03472
Std Dev 0.6029

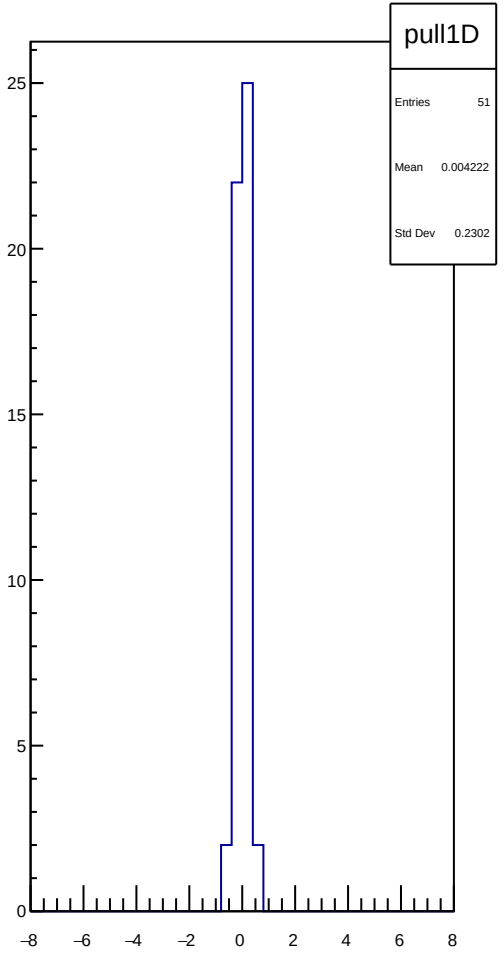

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.994 / 50
p0 −34.36 ± 2.85
pull
Entries 51
Mean −2.502
Std Dev 35.83

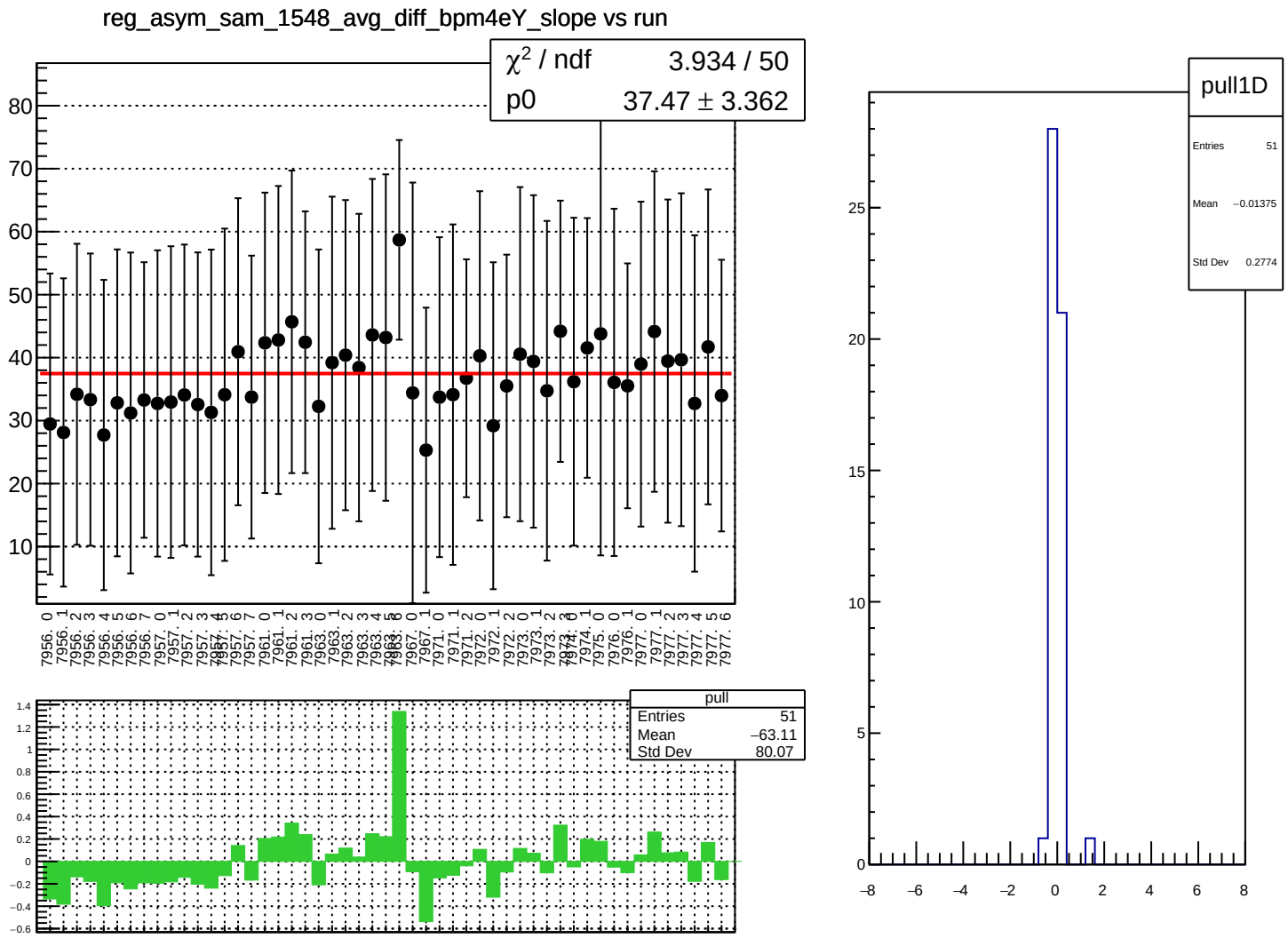

pull1D
Entries 51
Mean −0.0109
Std Dev 0.2796

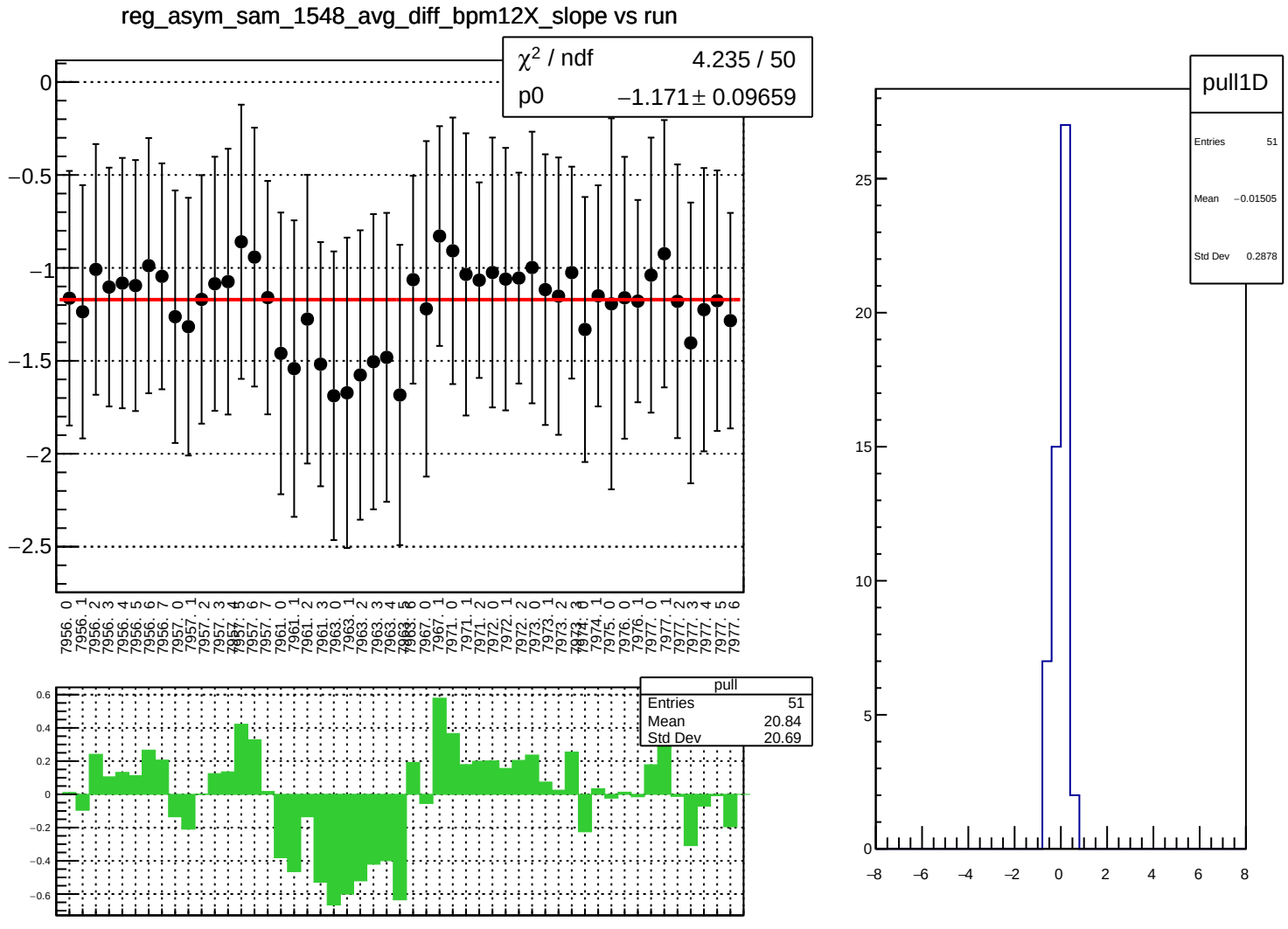

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.49 / 50
p0 45.45 ± 2.936
pull
Entries 51
Mean −11.33
Std Dev 24.94

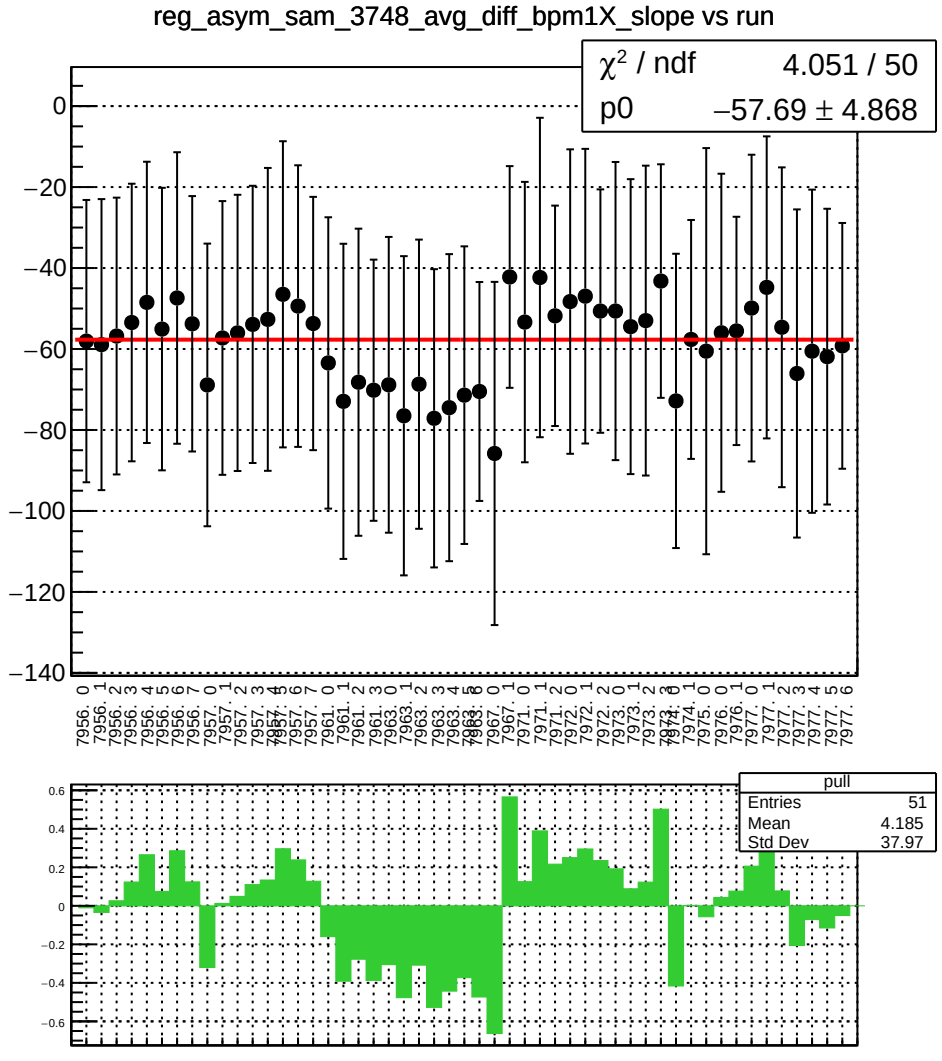

pull1D
Entries 51
Mean 0.01656
Std Dev 0.2611

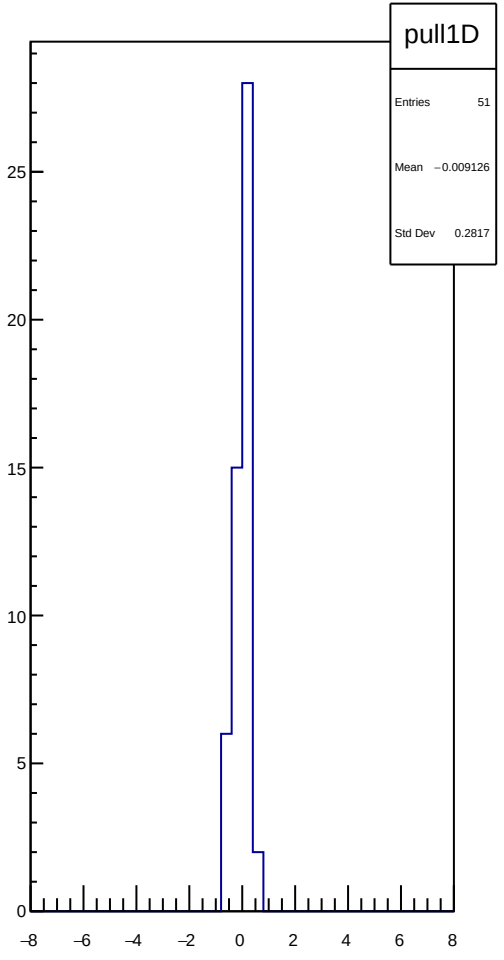

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.703 / 50
p0 −30.35 ± 2.538
pull
Entries 51
Mean −383.2
Std Dev 405.2

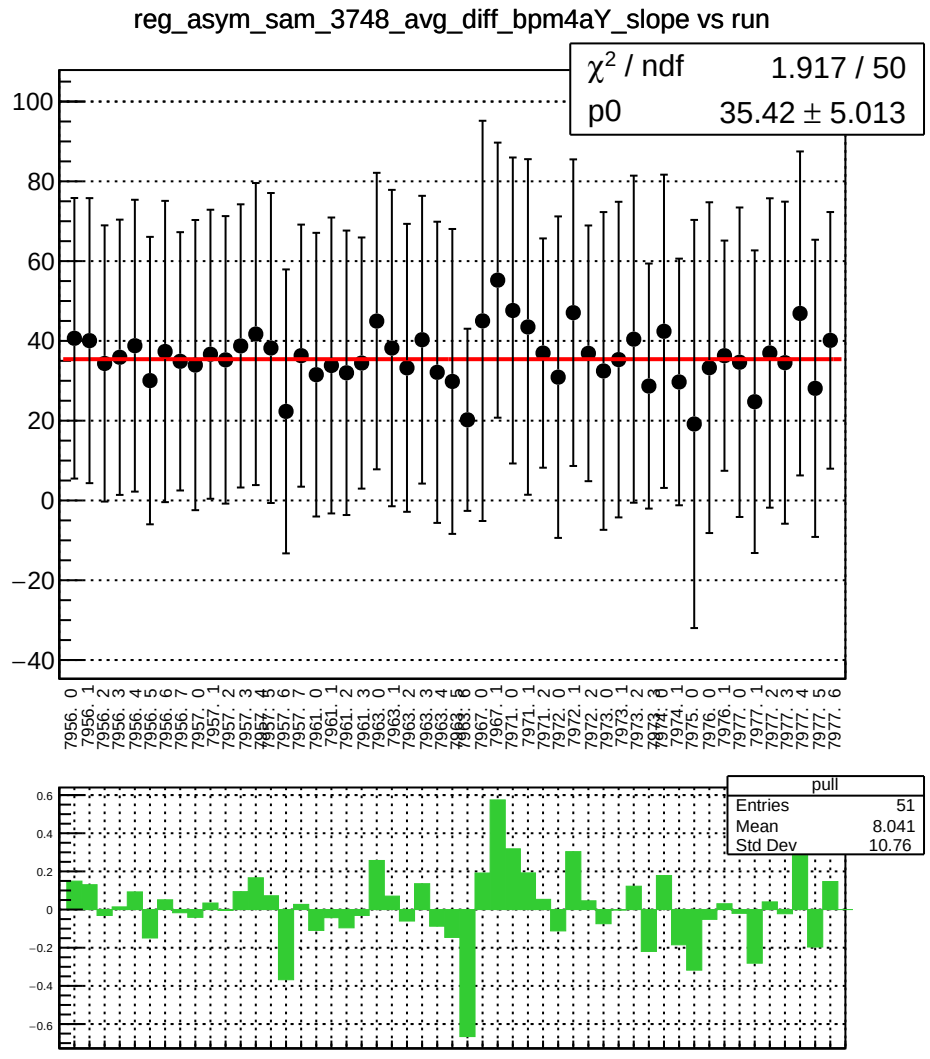

pull1D
Entries 51
Mean 0.004222
Std Dev 0.2302

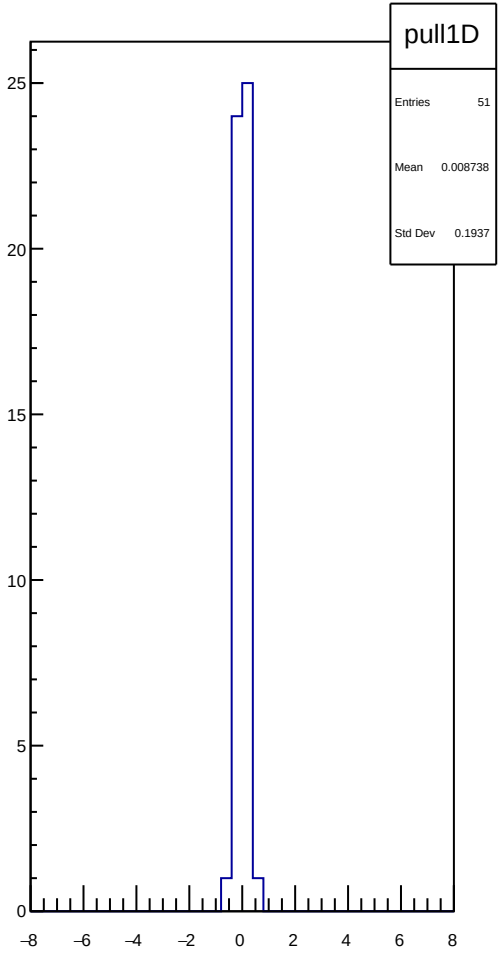

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.934 / 50
p0 37.47 ± 3.362
pull
Entries 51
Mean −63.11
Std Dev 80.07
pull1D
Entries 51
Mean −0.01375
Std Dev 0.2774

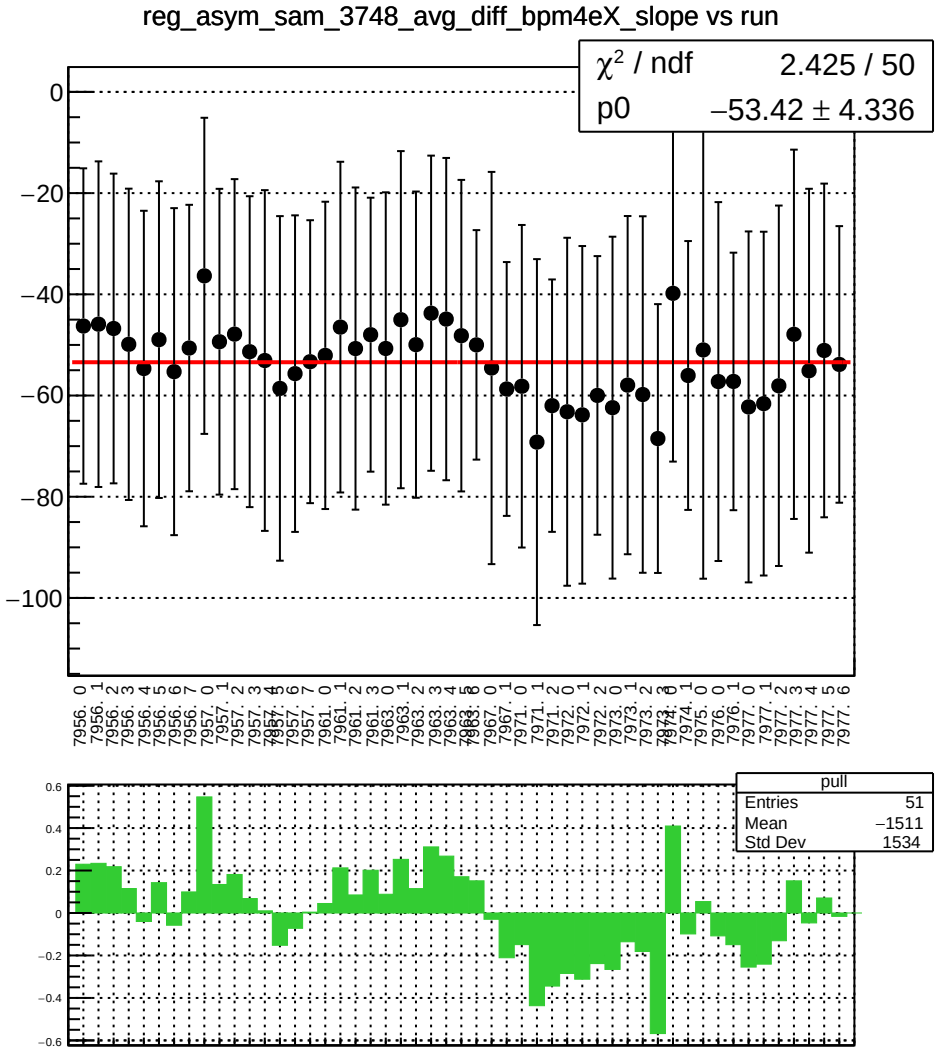

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 4.235 / 50
p0 −1.171 ± 0.09659
pull
Entries 51
Mean 20.84
Std Dev 20.69
pull1D
Entries 51
Mean −0.01505
Std Dev 0.2878

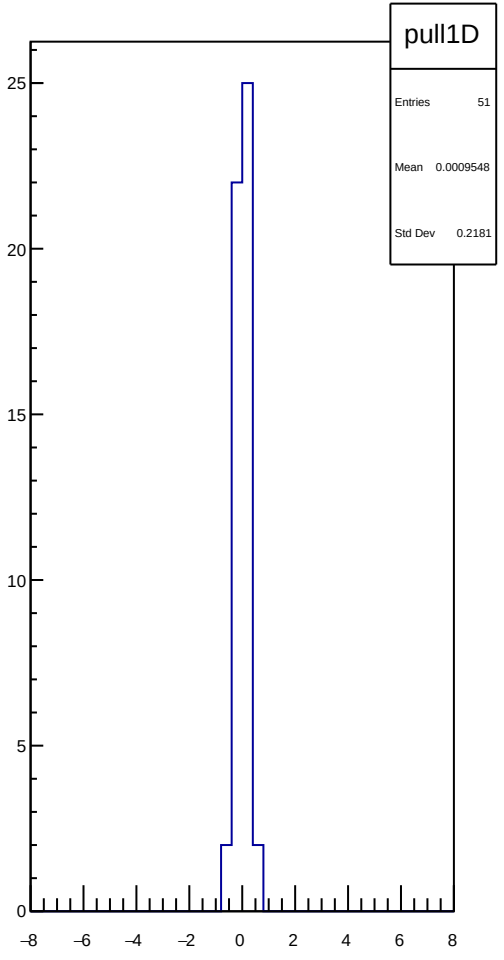

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.051 / 50
p0 −57.69 ± 4.868
pull
Entries 51
Mean 4.185
Std Dev 37.97

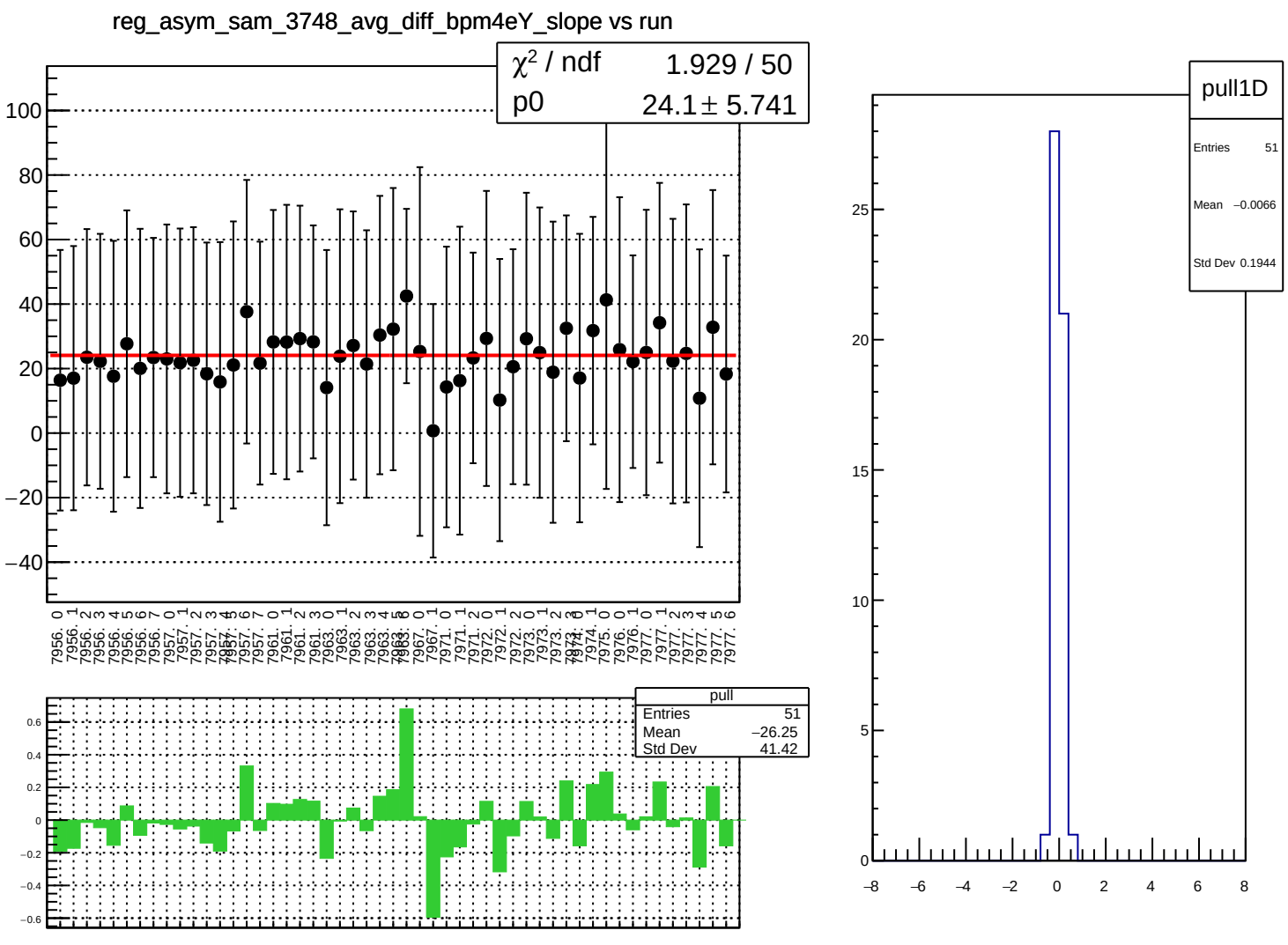

pull1D
Entries 51
Mean −0.009126
Std Dev 0.2817

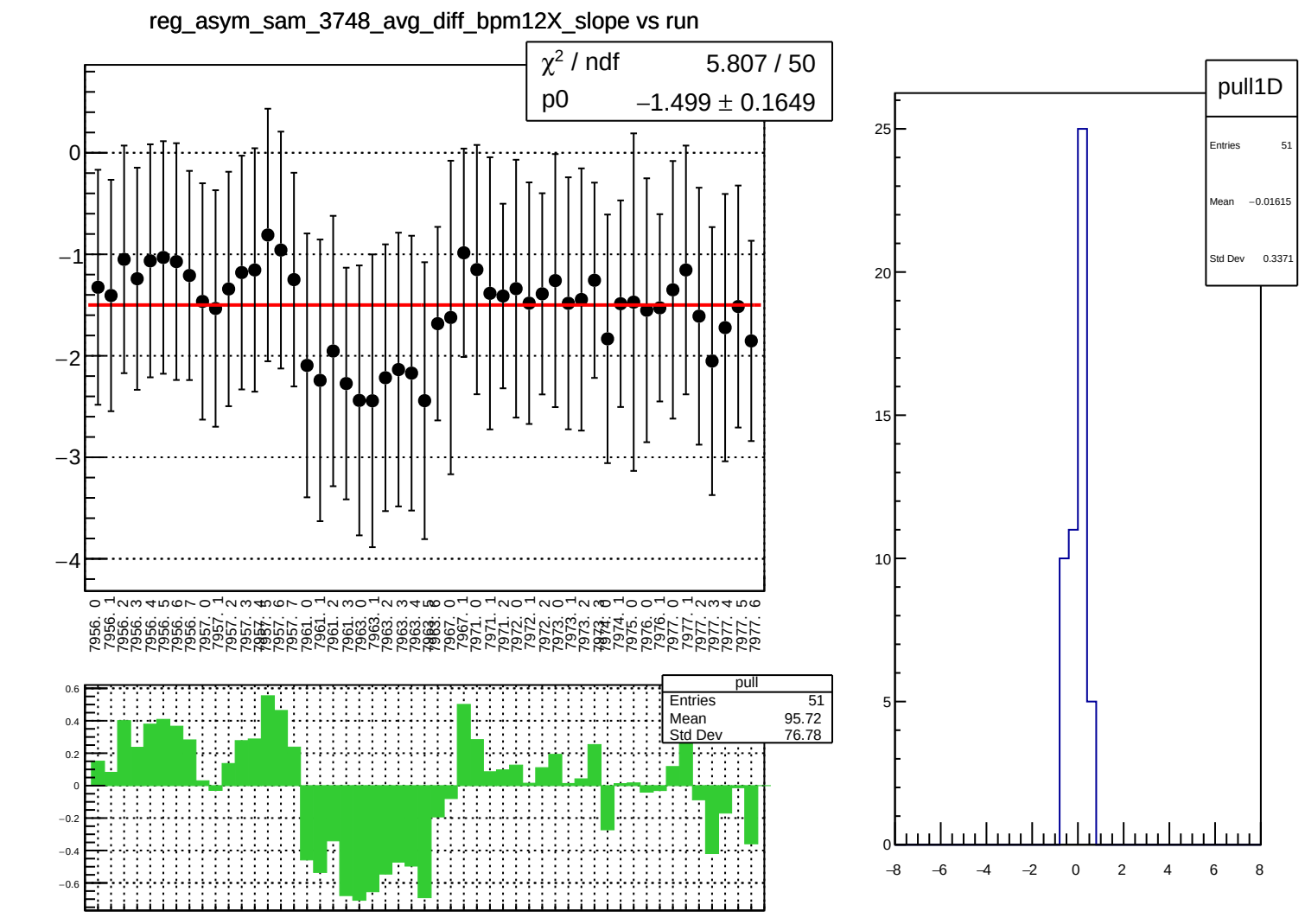

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.917 / 50
p0 35.42 ± 5.013
pull
Entries 51
Mean 8.041
Std Dev 10.76

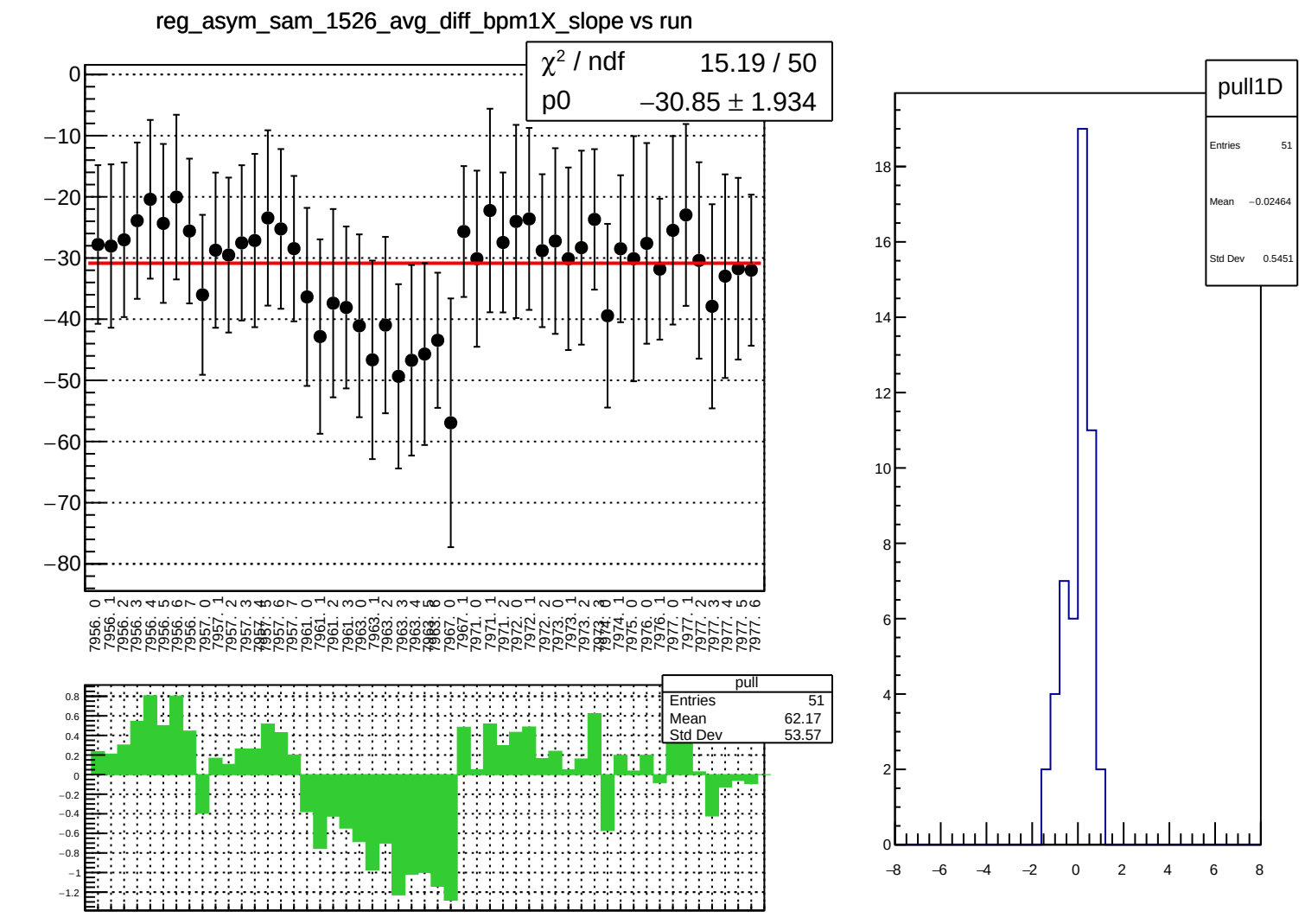

pull1D
Entries 51
Mean 0.008738
Std Dev 0.1937

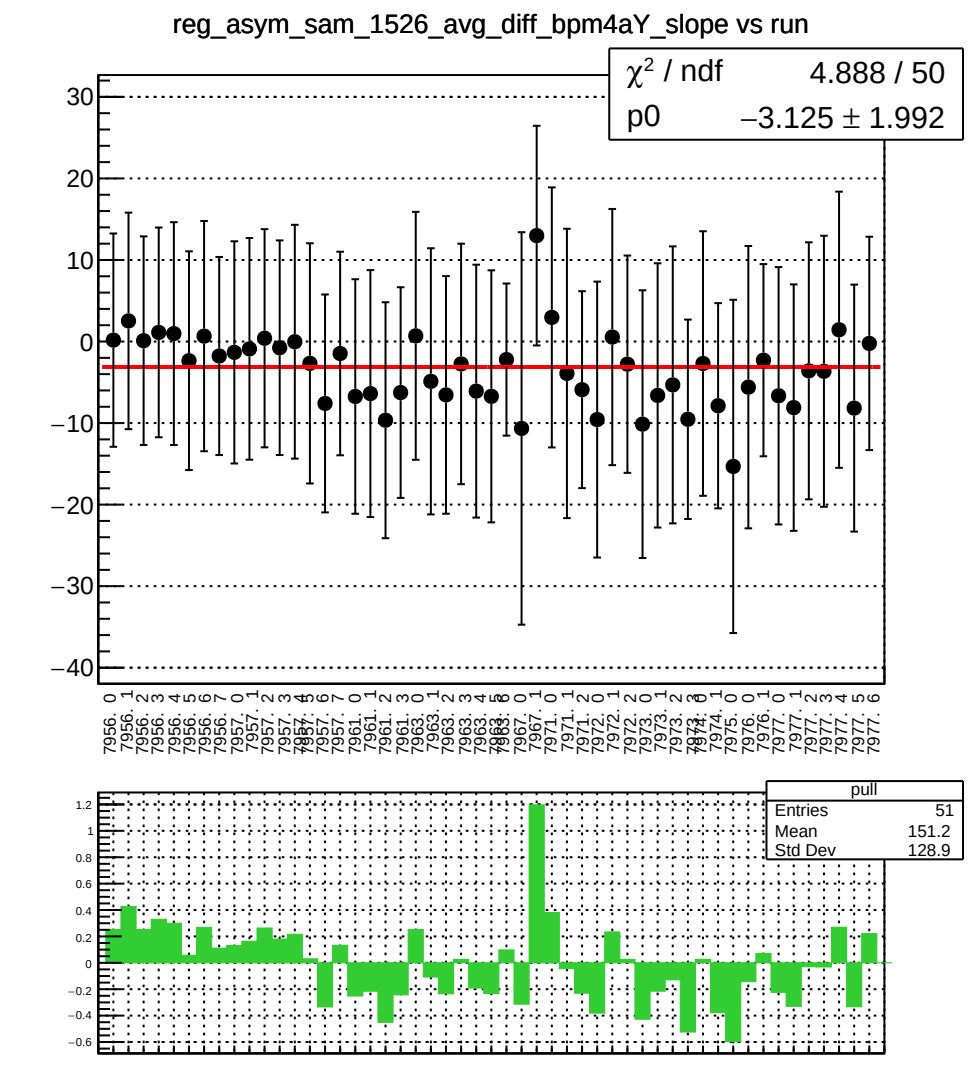

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.425 / 50
p0 −53.42 ± 4.336
pull
Entries 51
Mean −1511
Std Dev 1534

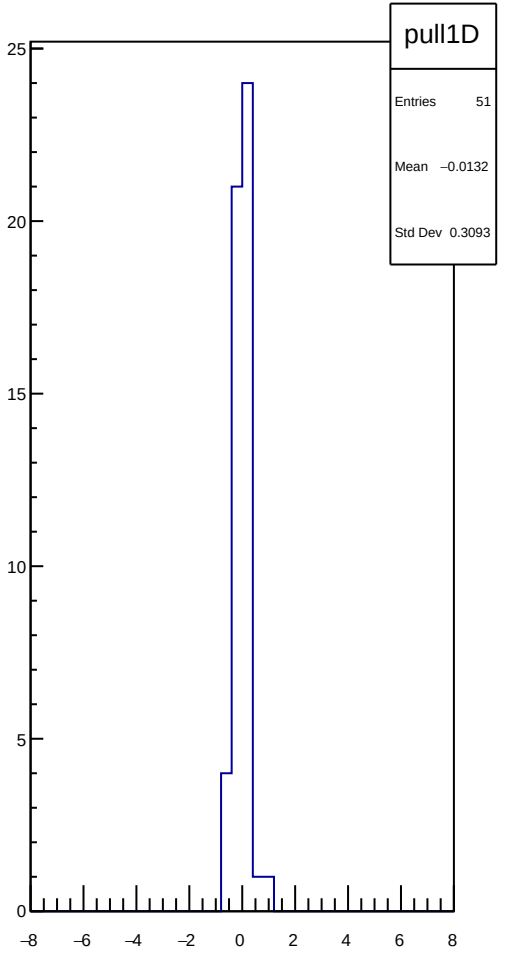

pull1D
Entries 51
Mean 0.0009548
Std Dev 0.2181

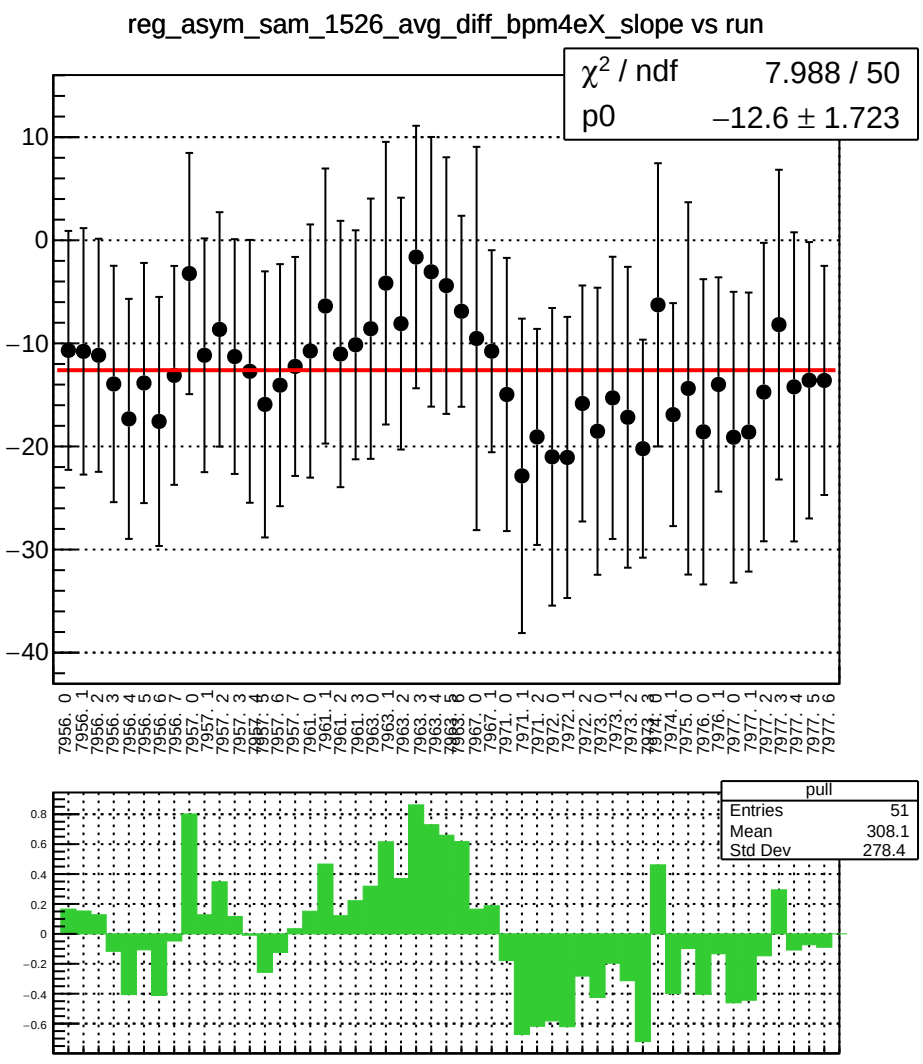

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.929 / 50
p0 24.1 ± 5.741
pull
Entries 51
Mean −26.25
Std Dev 41.42
pull1D
Entries 51
Mean −0.0066
Std Dev 0.1944

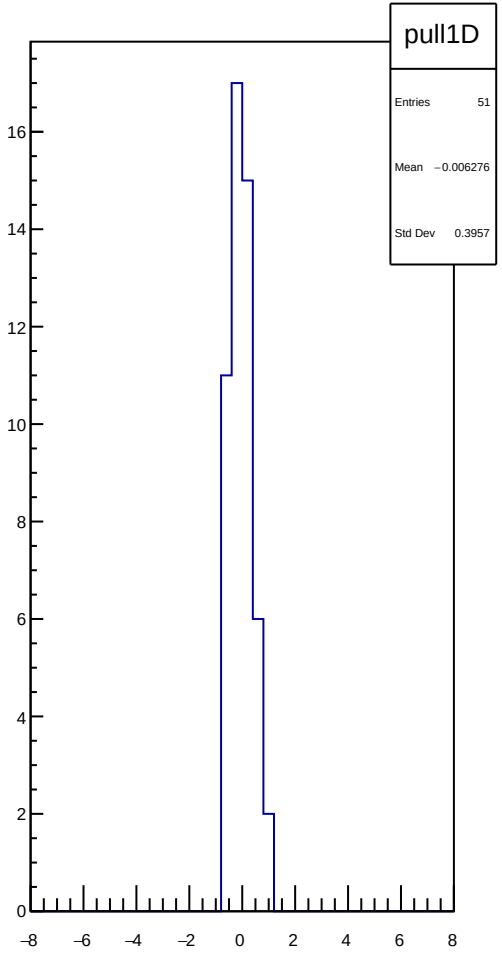

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 5.807 / 50
p0 −1.499 ± 0.1649
pull
Entries 51
Mean 95.72
Std Dev 76.78
pull1D
Entries 51
Mean −0.01615
Std Dev 0.3371

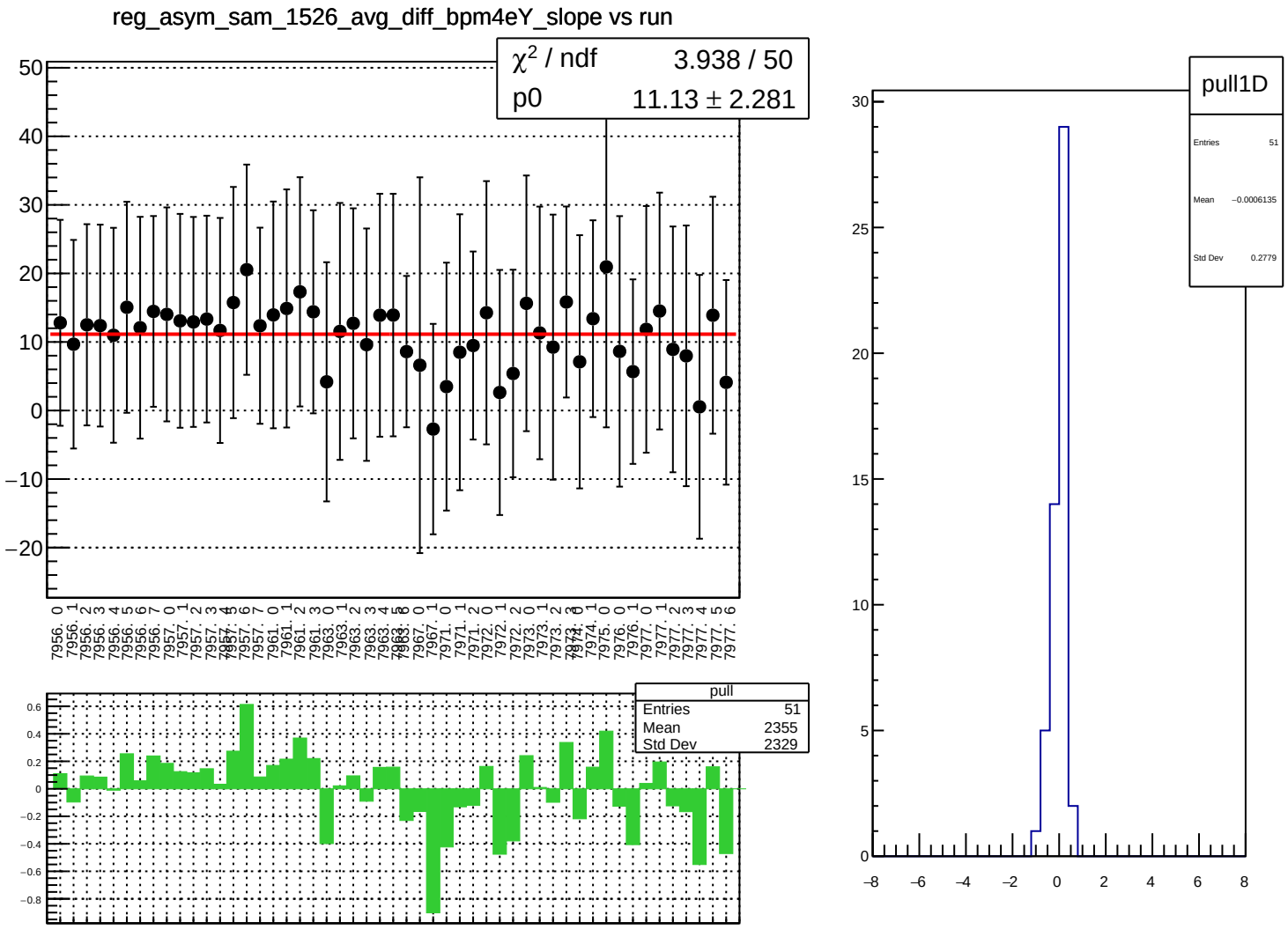

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 50
p0 −30.85 ± 1.934
pull
Entries 51
Mean 62.17
Std Dev 53.57
pull1D
Entries 51
Mean −0.02464
Std Dev 0.5451

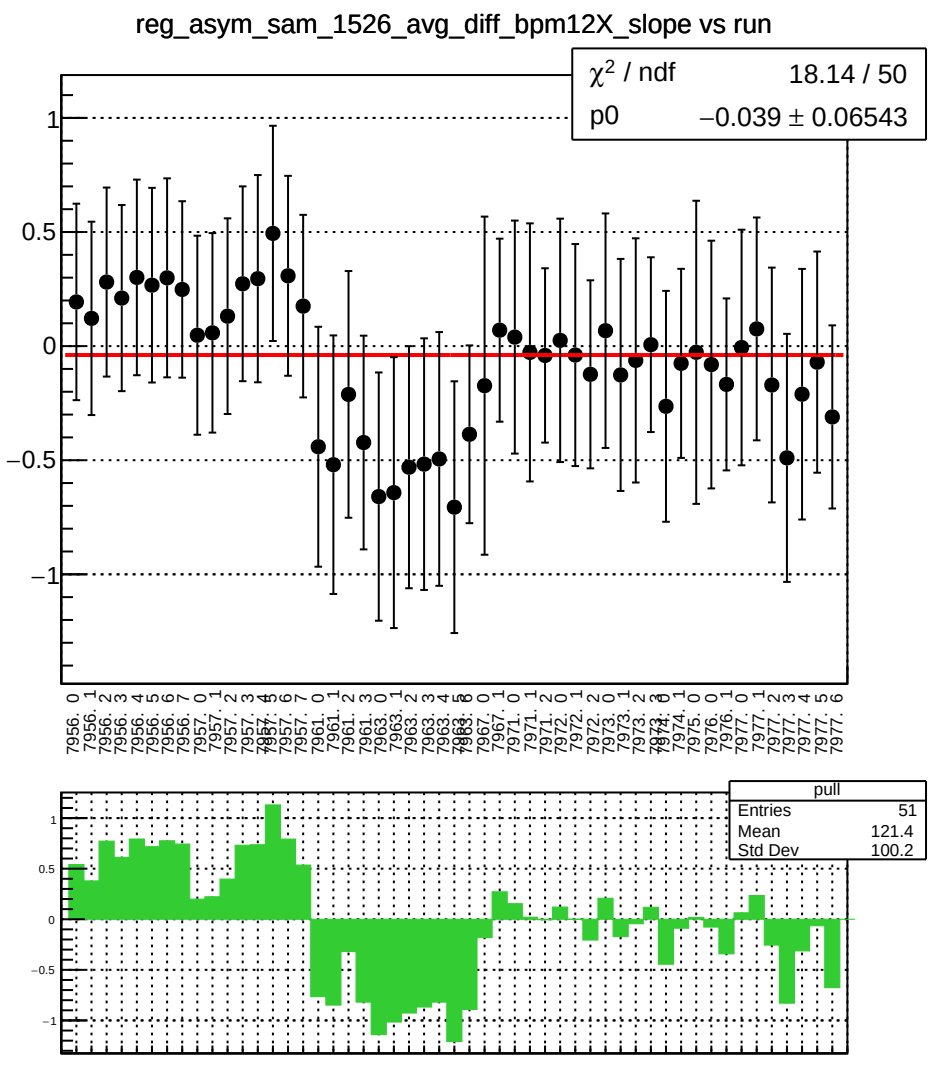

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.888 / 50
p0 −3.125 ± 1.992
pull
Entries 51
Mean 151.2
Std Dev 128.9

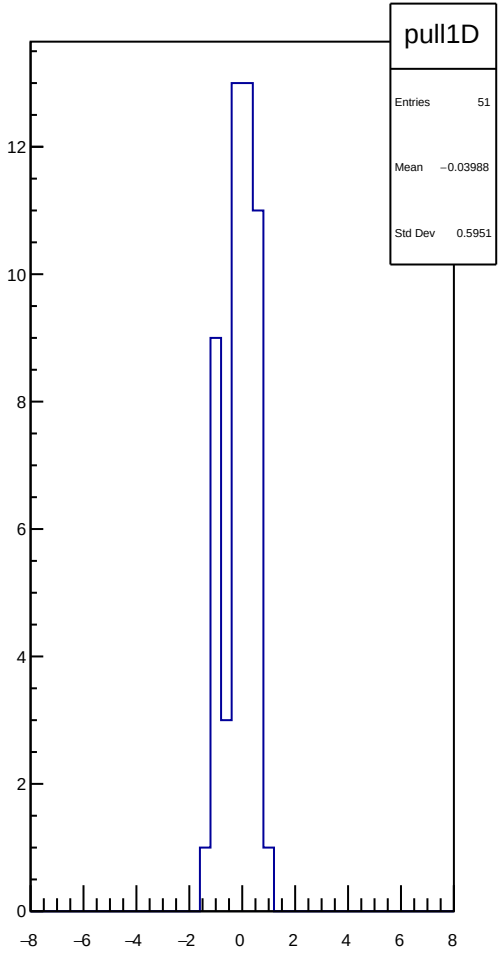

pull1D
Entries 51
Mean −0.0132
Std Dev 0.3093

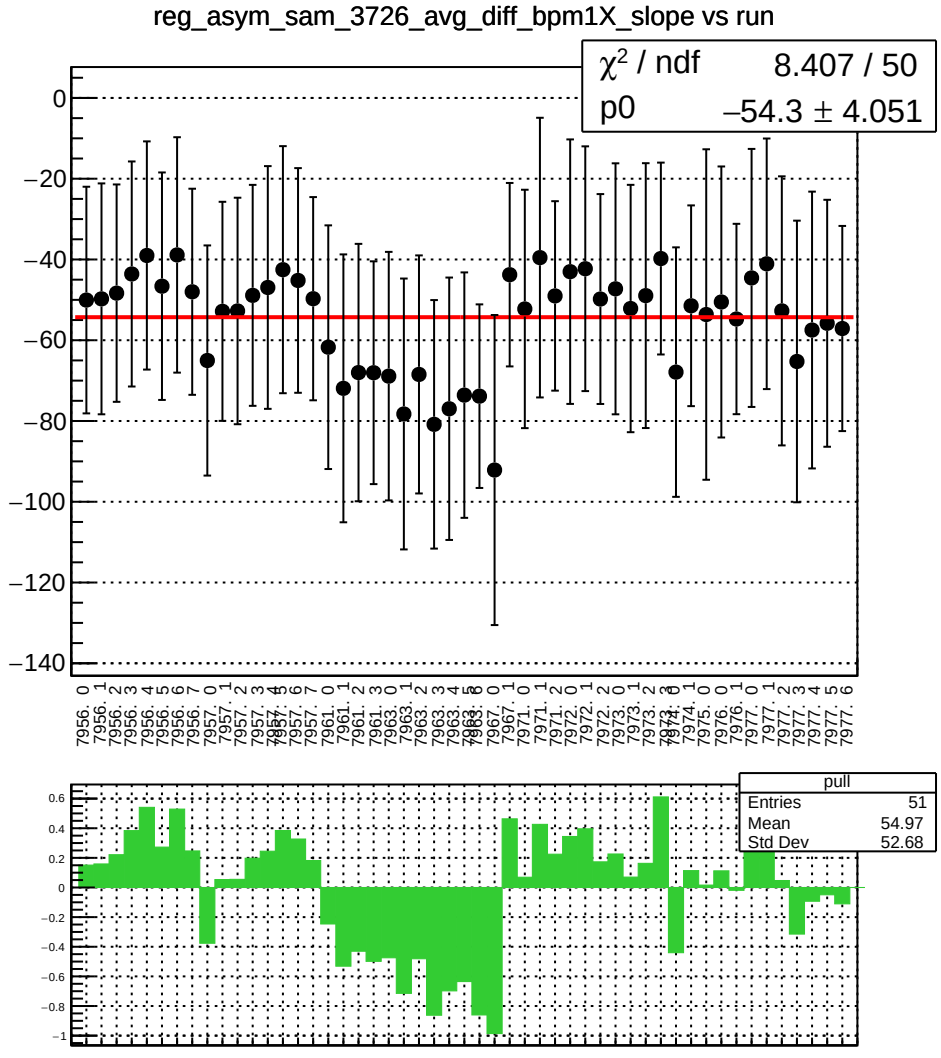

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.988 / 50
p0 −12.6 ± 1.723
pull
Entries 51
Mean 308.1
Std Dev 278.4

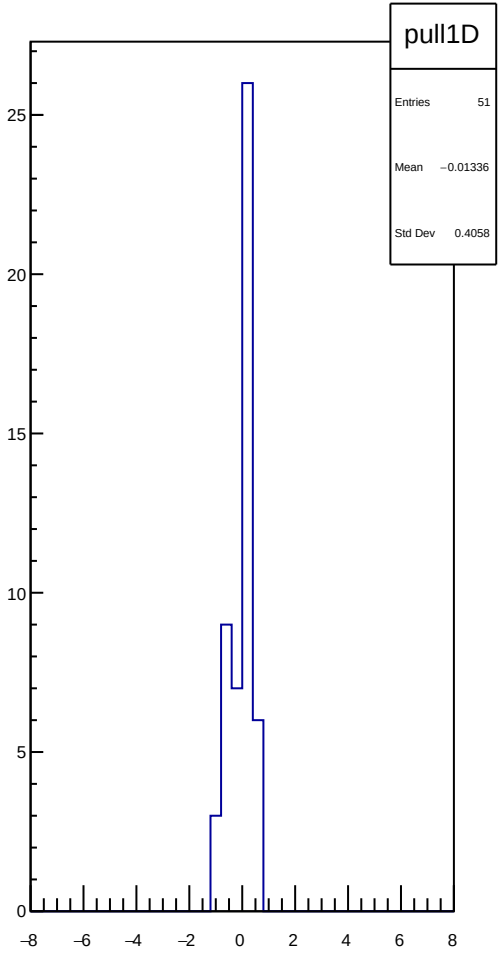

pull1D
Entries 51
Mean −0.006276
Std Dev 0.3957

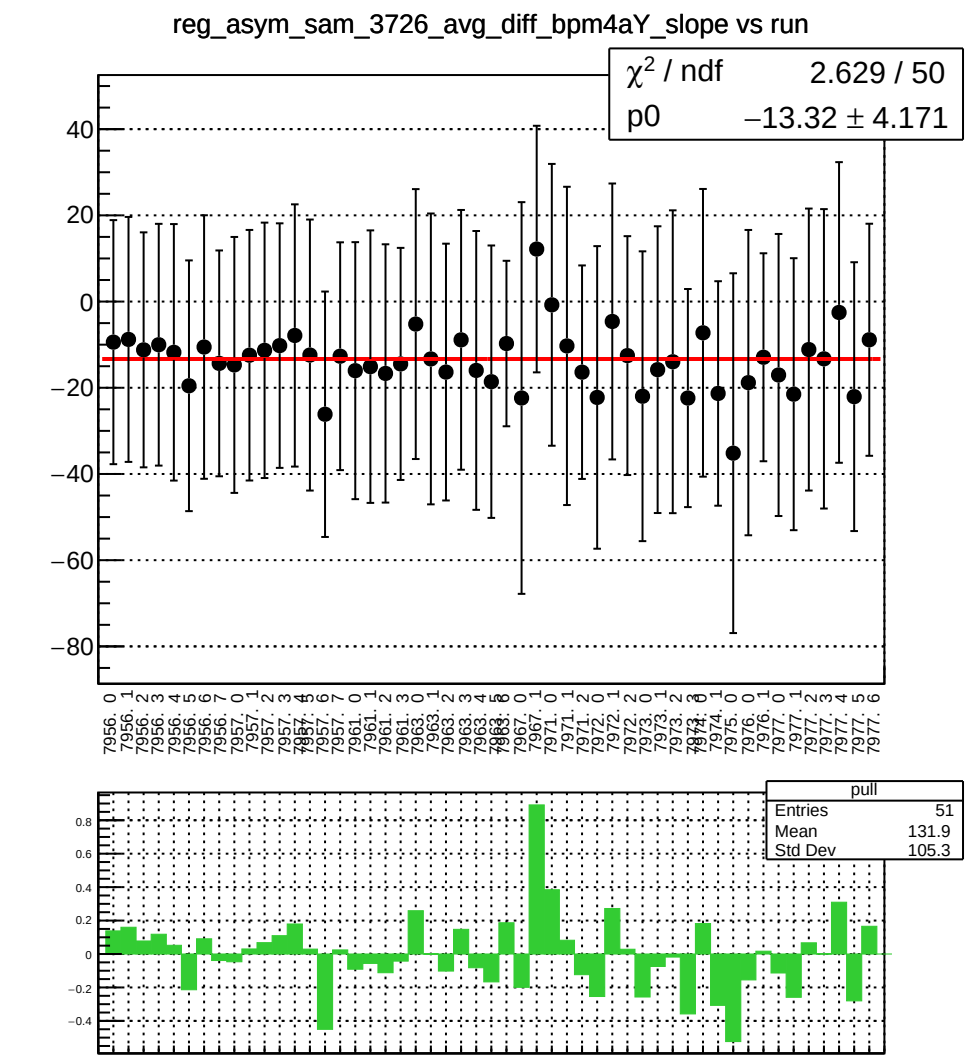

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.938 / 50
p0 11.13 ± 2.281
pull
Entries 51
Mean 2355
Std Dev 2329
pull1D
Entries 51
Mean −0.0006135
Std Dev 0.2779

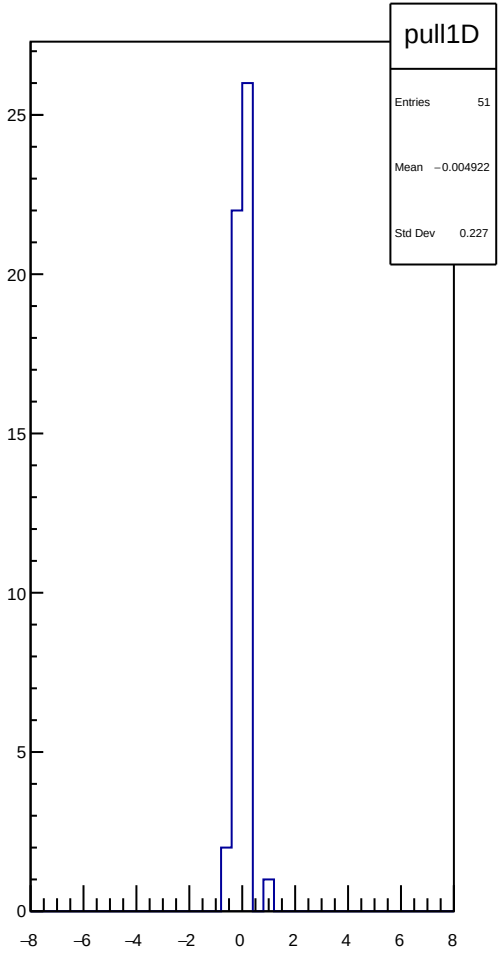

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 18.14 / 50
p0 −0.039 ± 0.06543
pull
Entries 51
Mean 121.4
Std Dev 100.2

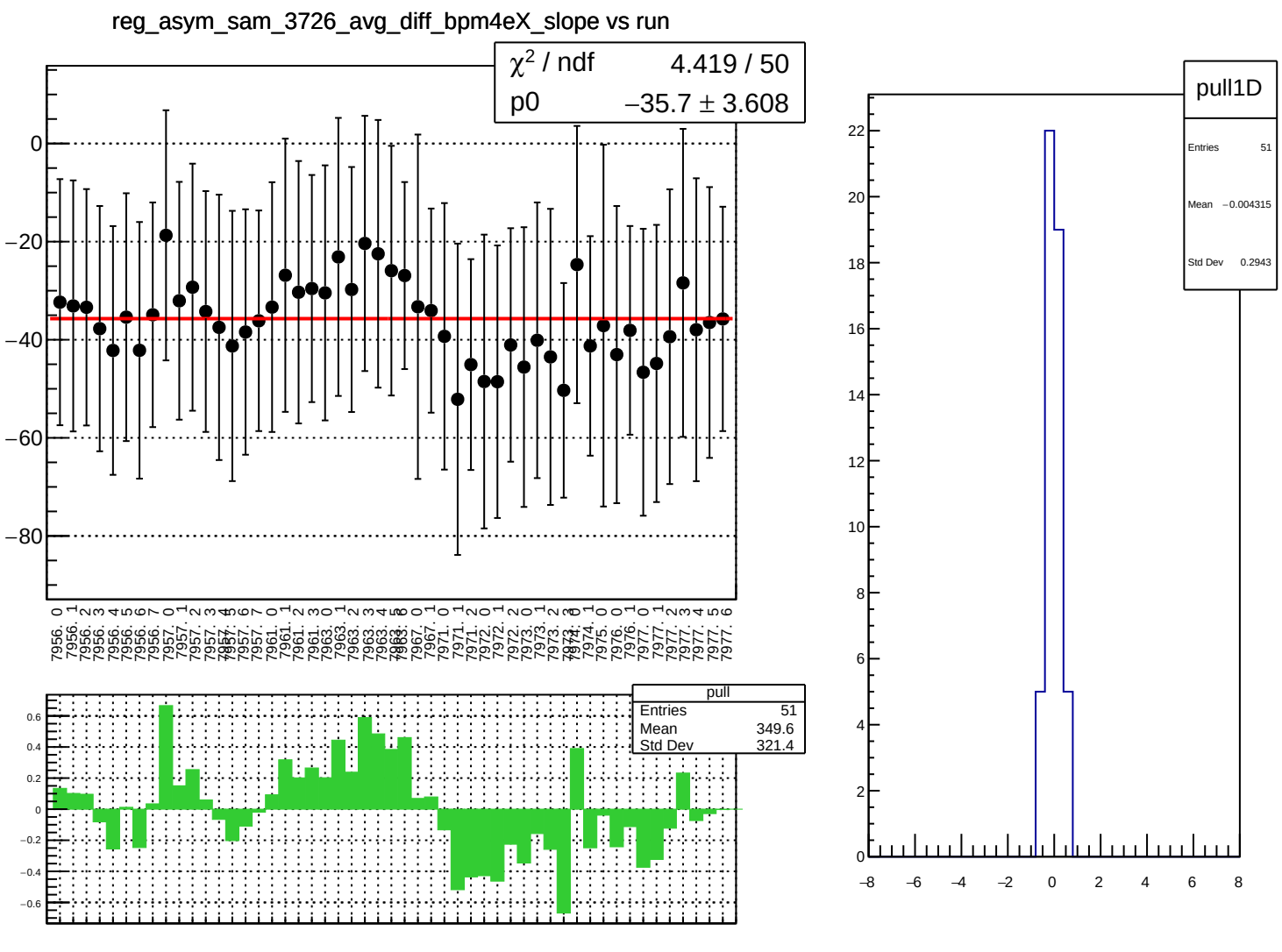

pull1D
Entries 51
Mean −0.03988
Std Dev 0.5951

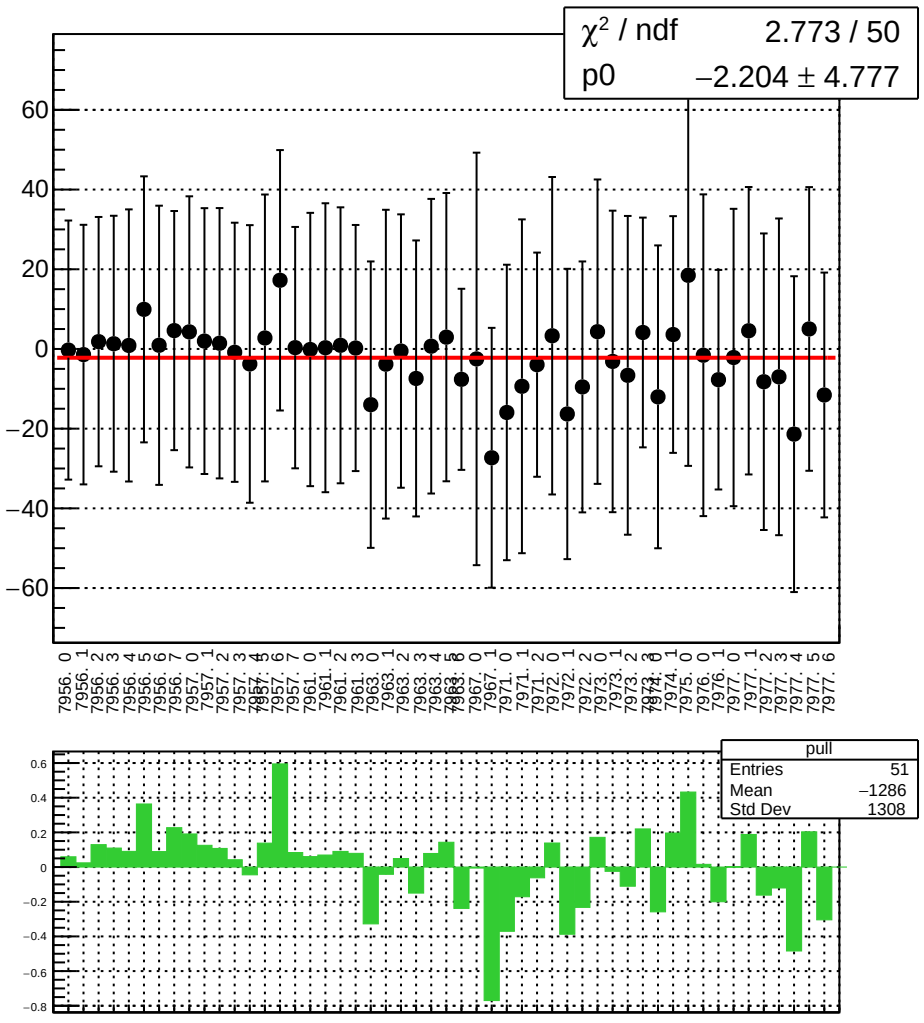

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 8.407 / 50
p0 −54.3 ± 4.051
pull
Entries 51
Mean 54.97
Std Dev 52.68

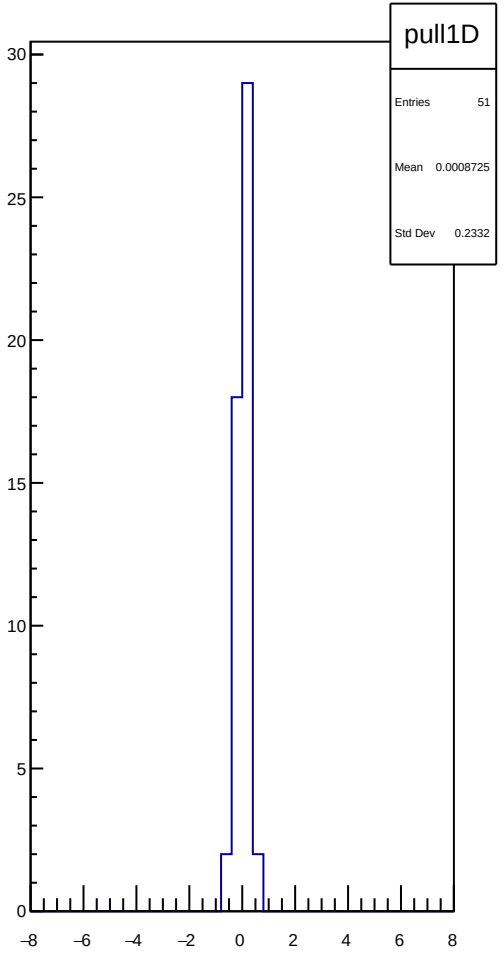

pull1D
Entries 51
Mean −0.01336
Std Dev 0.4058

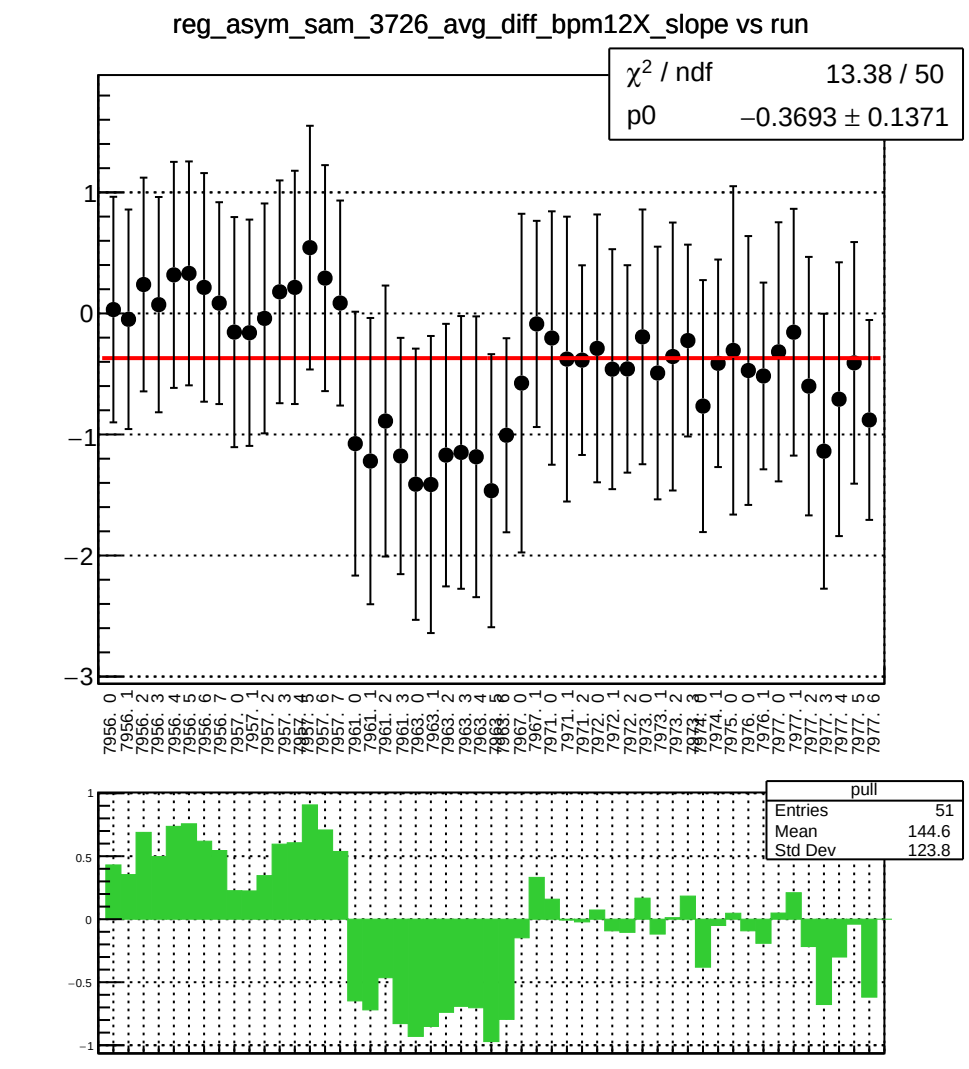

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.629 / 50
p0 −13.32 ± 4.171
pull
Entries 51
Mean 131.9
Std Dev 105.3

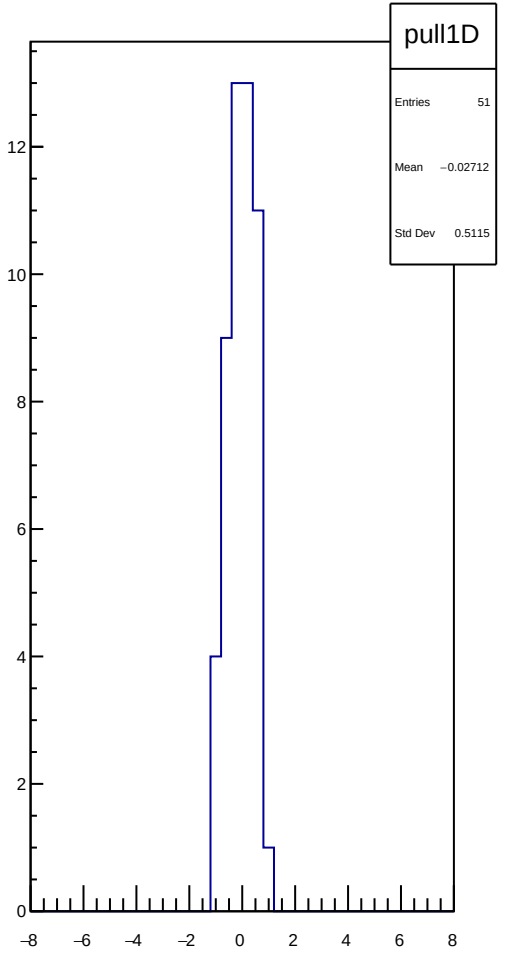

pull1D
Entries 51
Mean −0.004922
Std Dev 0.227

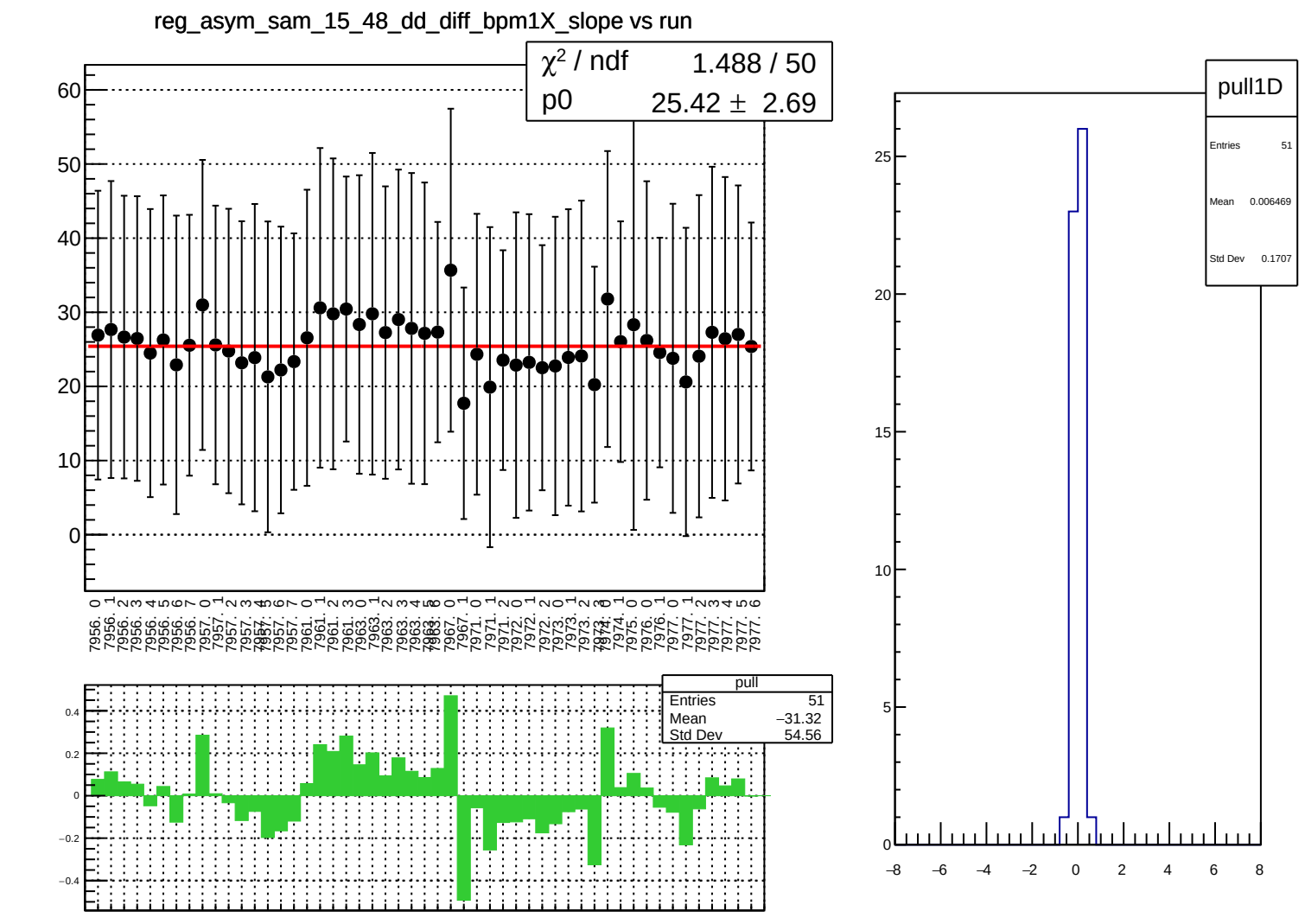

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.419 / 50
p0 −35.7 ± 3.608
pull
Entries 51
Mean 349.6
Std Dev 321.4
pull1D
Entries 51
Mean −0.004315
Std Dev 0.2943

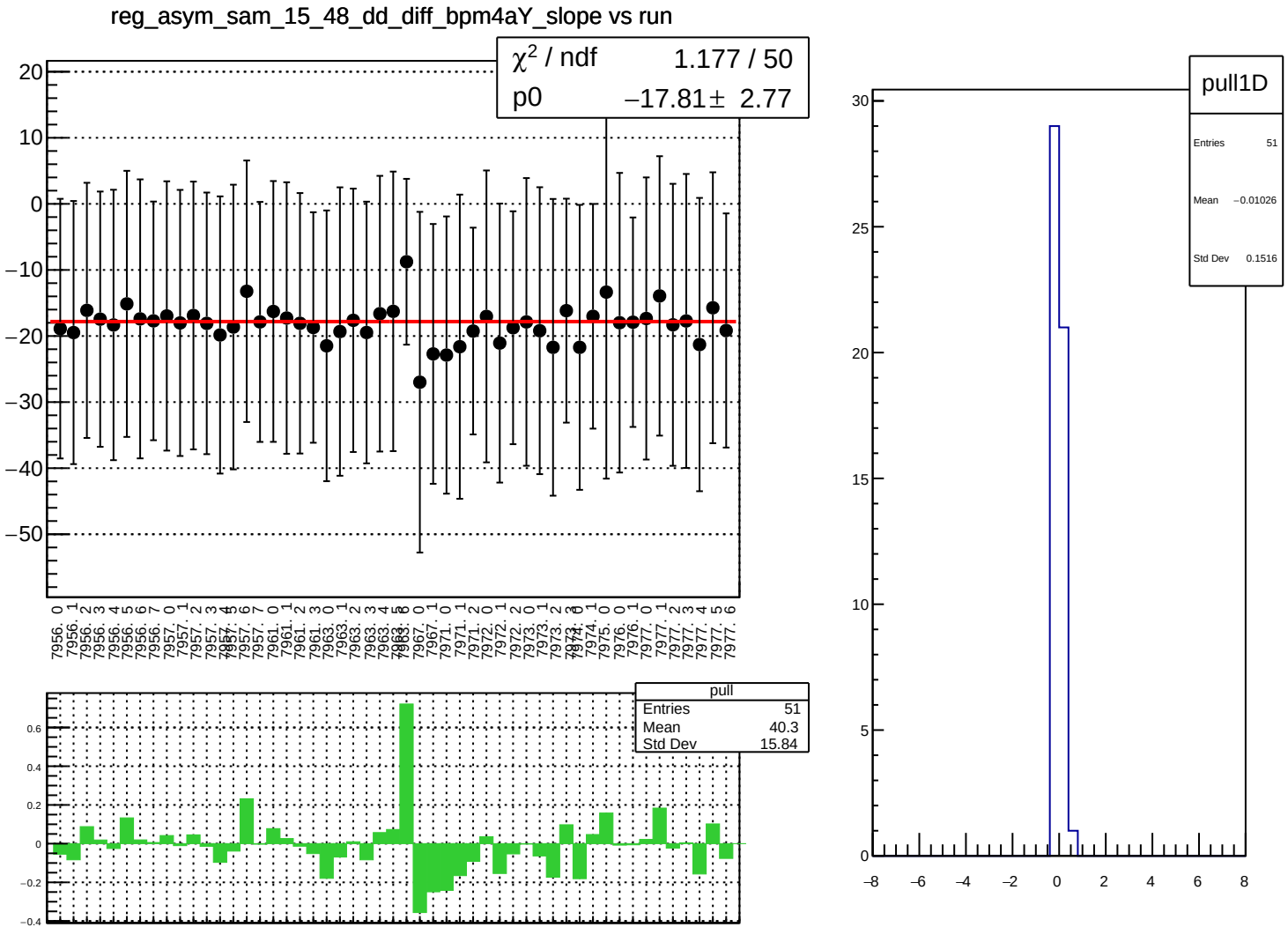

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.773 / 50
p0 −2.204 ± 4.777
pull
Entries 51
Mean −1286
Std Dev 1308

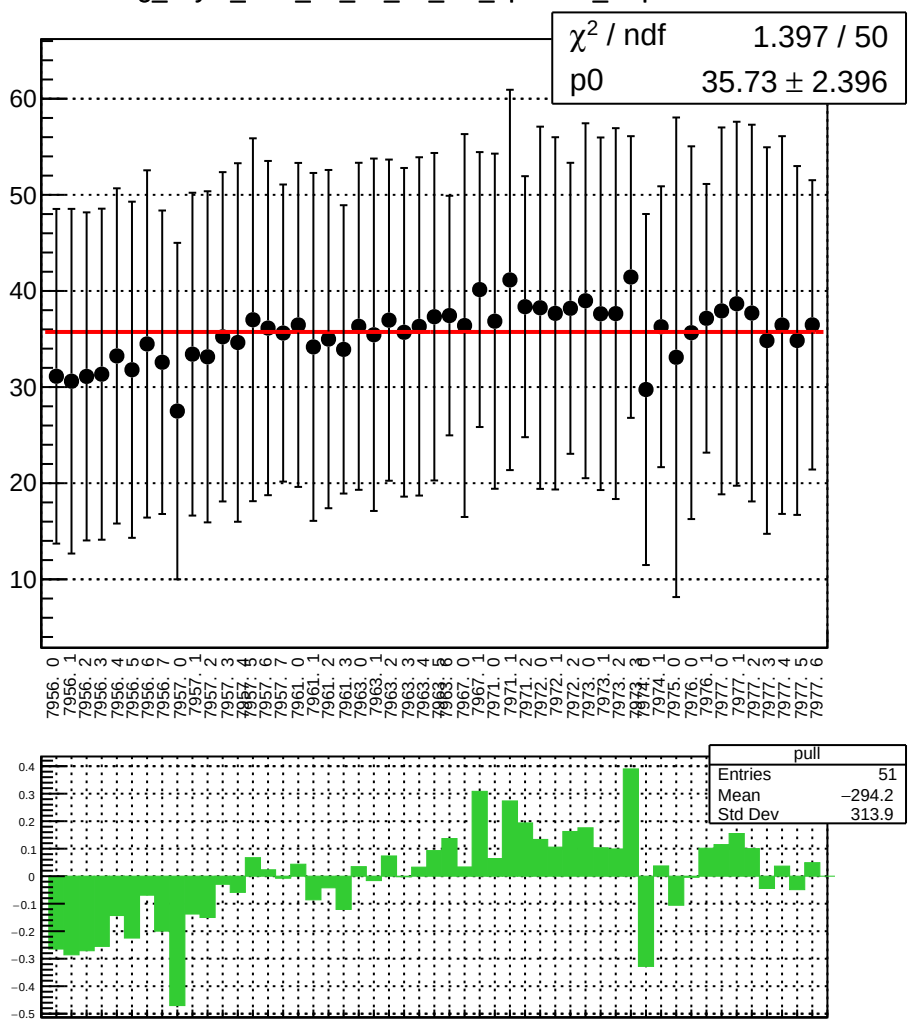

pull1D
Entries 51
Mean 0.0008725
Std Dev 0.2332

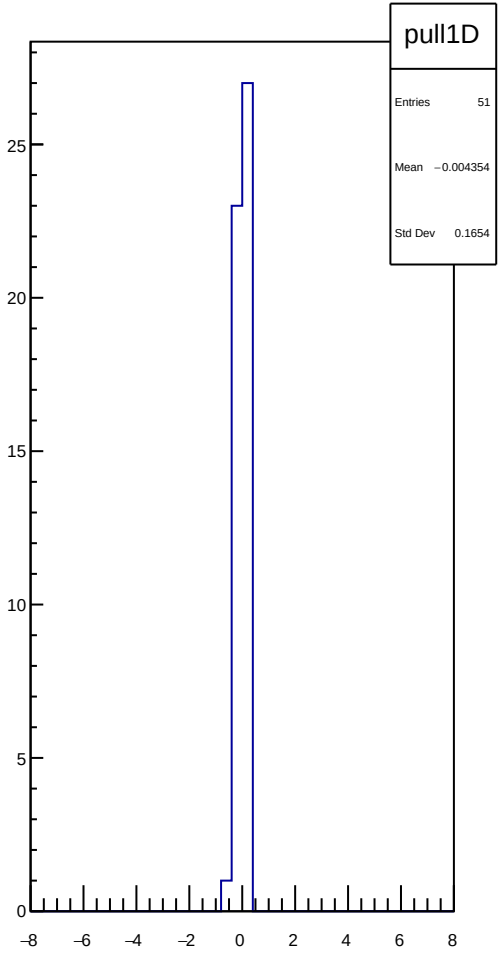

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 13.38 / 50
p0 −0.3693 ± 0.1371
pull
Entries 51
Mean 144.6
Std Dev 123.8

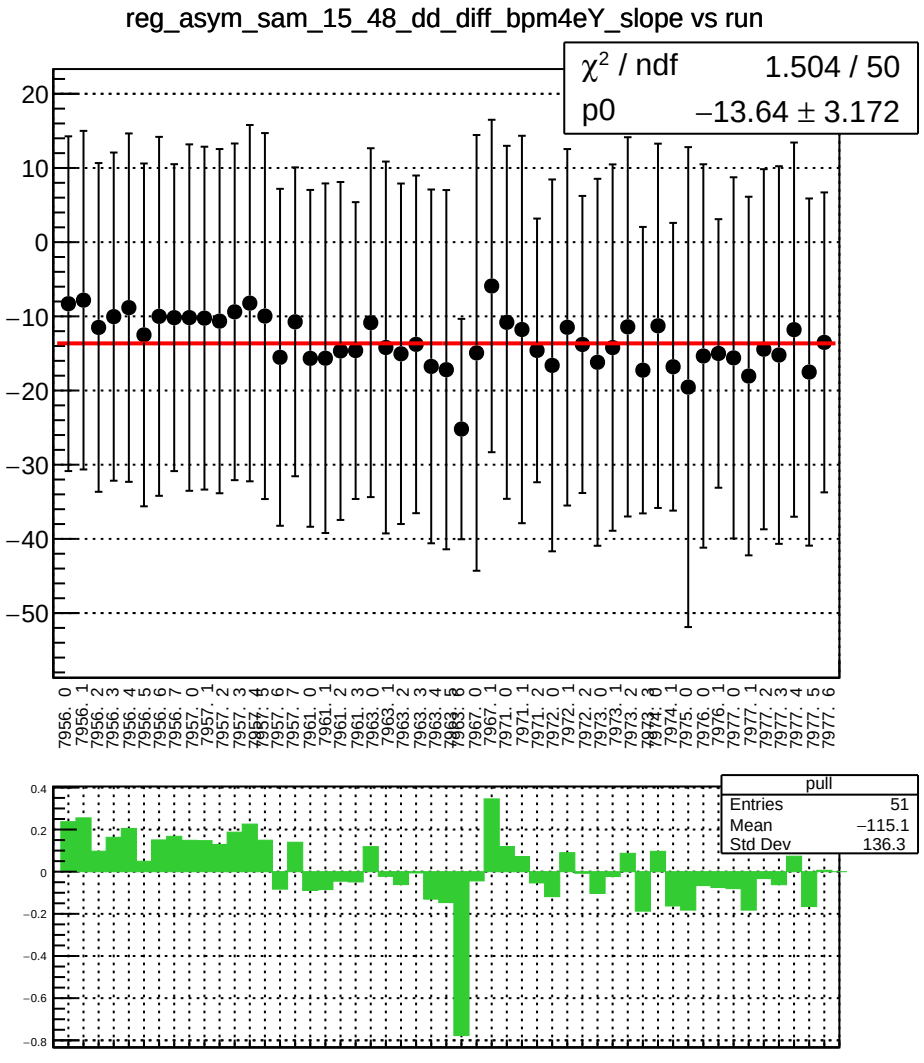

pull1D
Entries 51
Mean −0.02712
Std Dev 0.5115

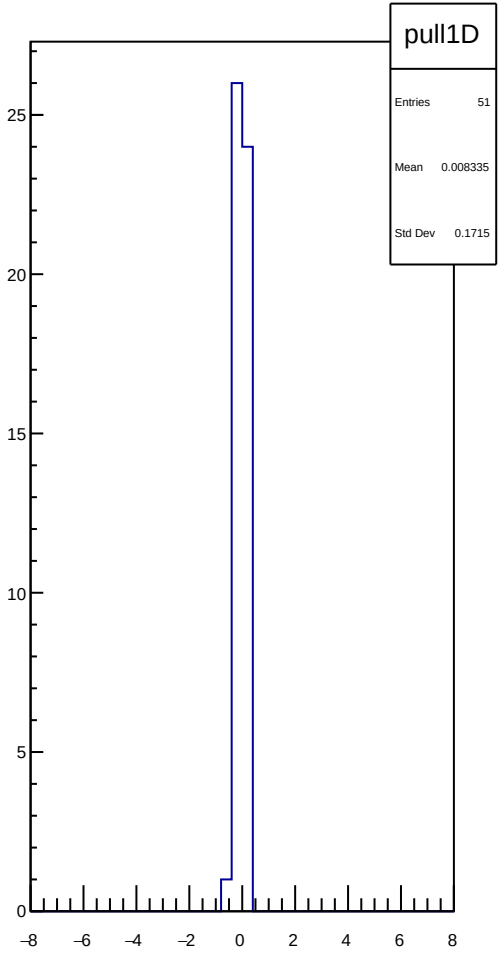

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1.488 / 50
p0 25.42 ± 2.69
pull
Entries 51
Mean −31.32
Std Dev 54.56
pull1D
Entries 51
Mean 0.006469
Std Dev 0.1707

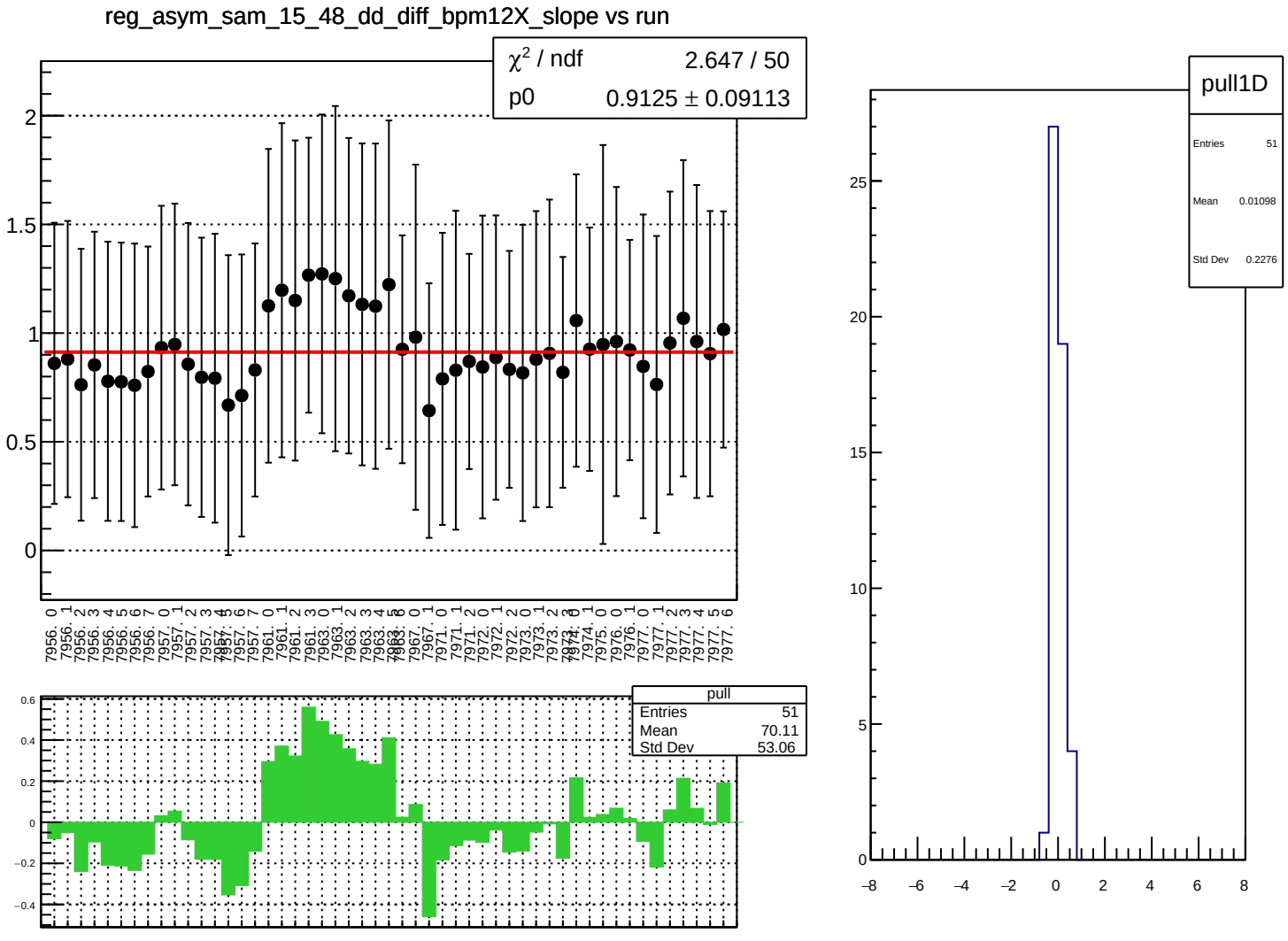

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.177 / 50
p0 −17.81± 2.77
pull
Entries 51
Mean 40.3
Std Dev 15.84
pull1D
Entries 51
Mean −0.01026
Std Dev 0.1516

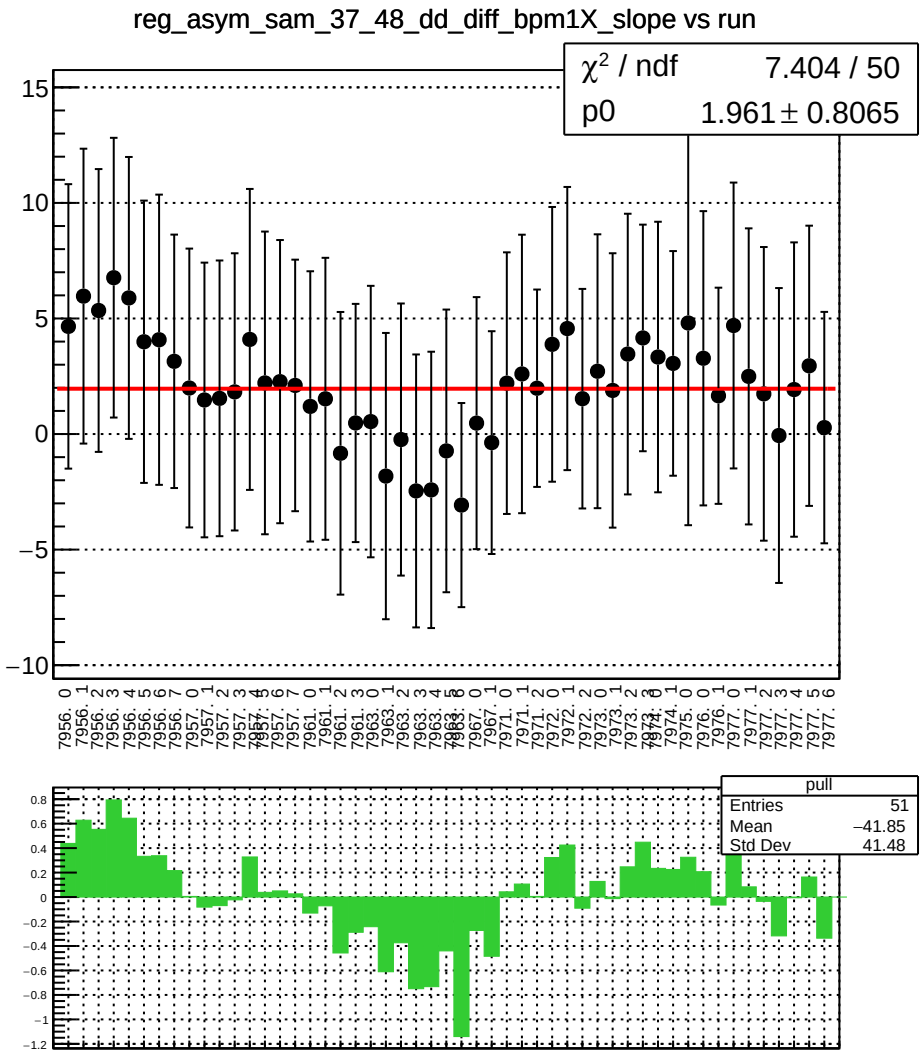

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.397 / 50
p0 35.73 ± 2.396
pull
Entries 51
Mean −294.2
Std Dev 313.9

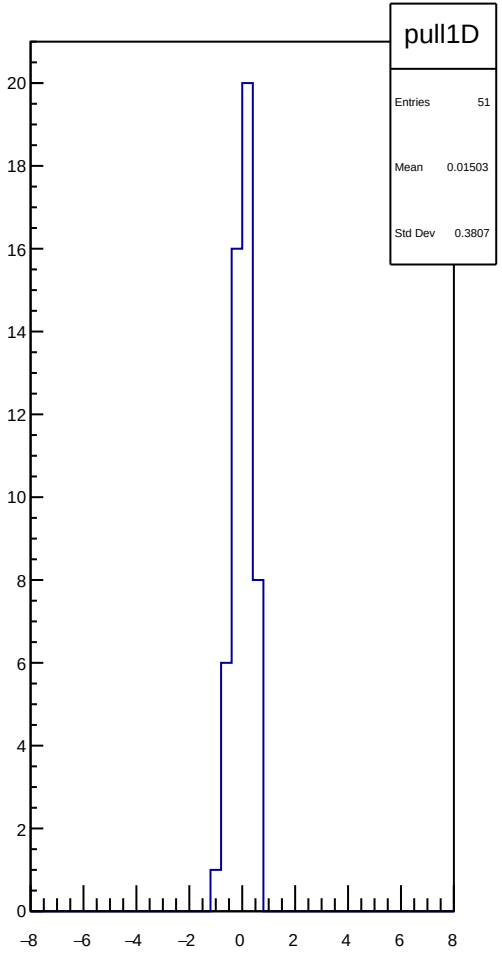

pull1D
Entries 51
Mean −0.004354
Std Dev 0.1654

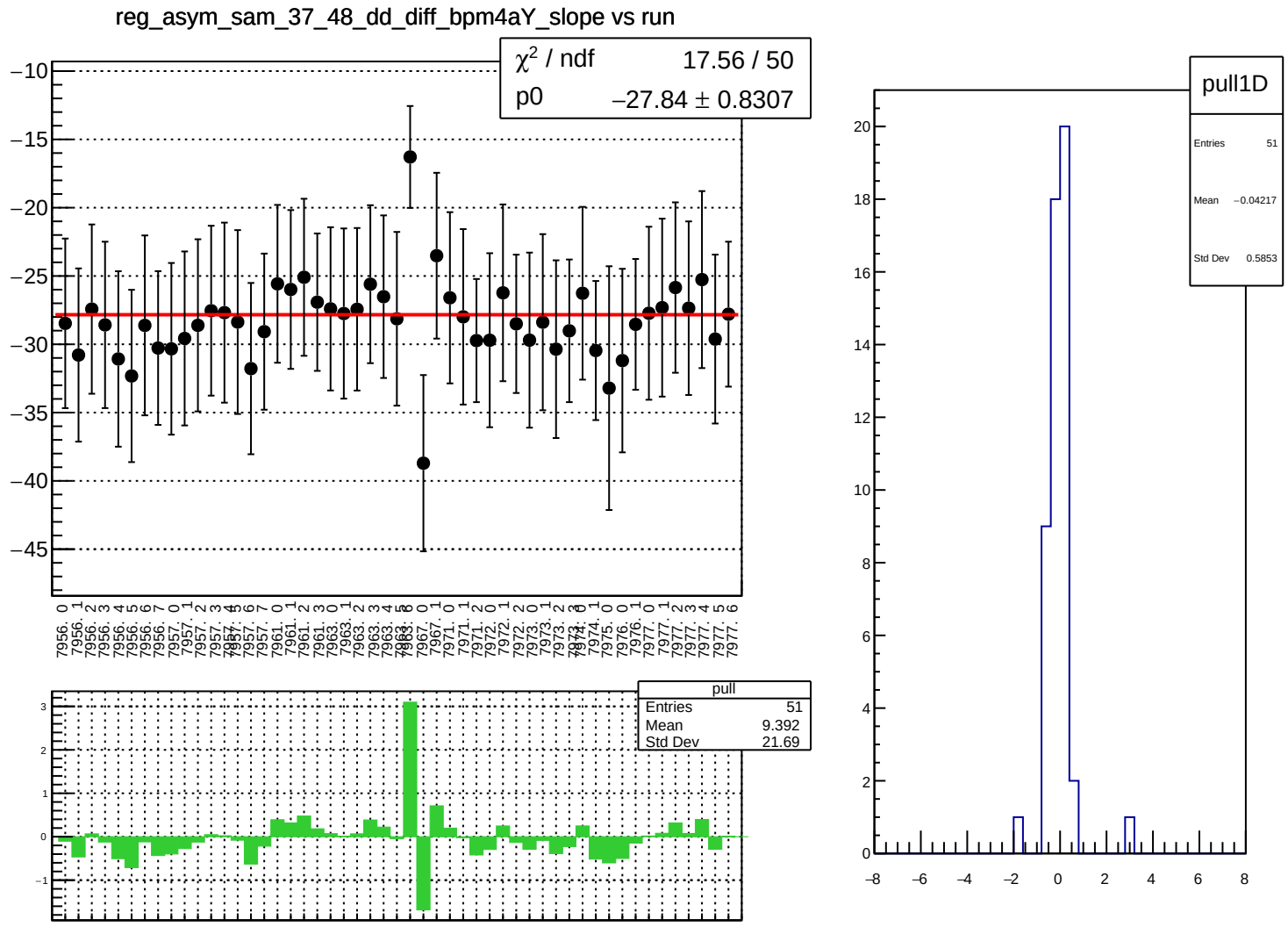

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.504 / 50
p0 −13.64 ± 3.172
pull
Entries 51
Mean −115.1
Std Dev 136.3


pull1D
Entries 51
Mean 0.008335
Std Dev 0.1715

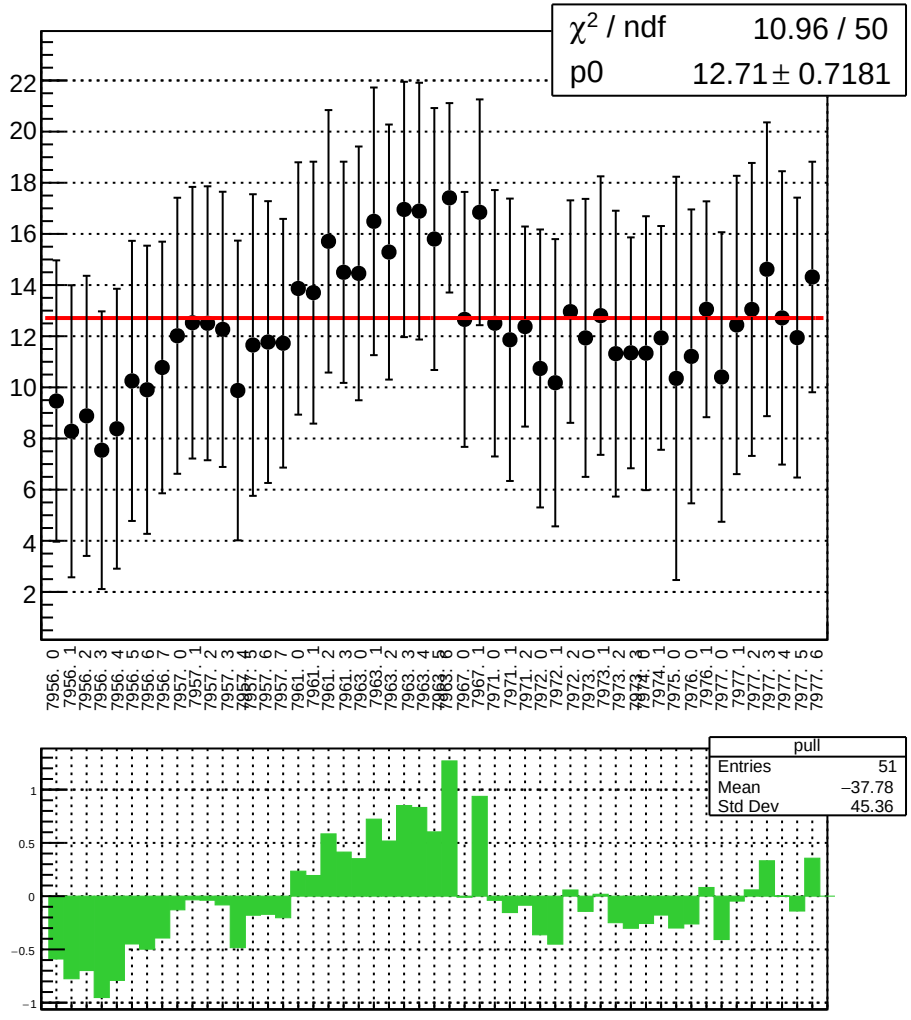

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.647 / 50
p0 0.9125 ± 0.09113
pull
Entries 51
Mean 70.11
Std Dev 53.06
pull1D
Entries 51
Mean 0.01098
Std Dev 0.2276

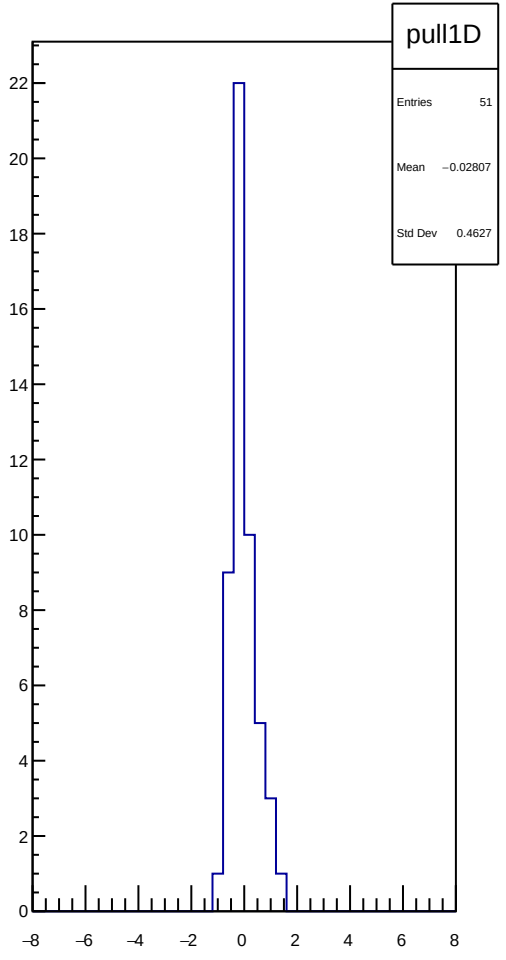

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.404 / 50
p0 1.961 ± 0.8065
pull
Entries 51
Mean −41.85
Std Dev 41.48

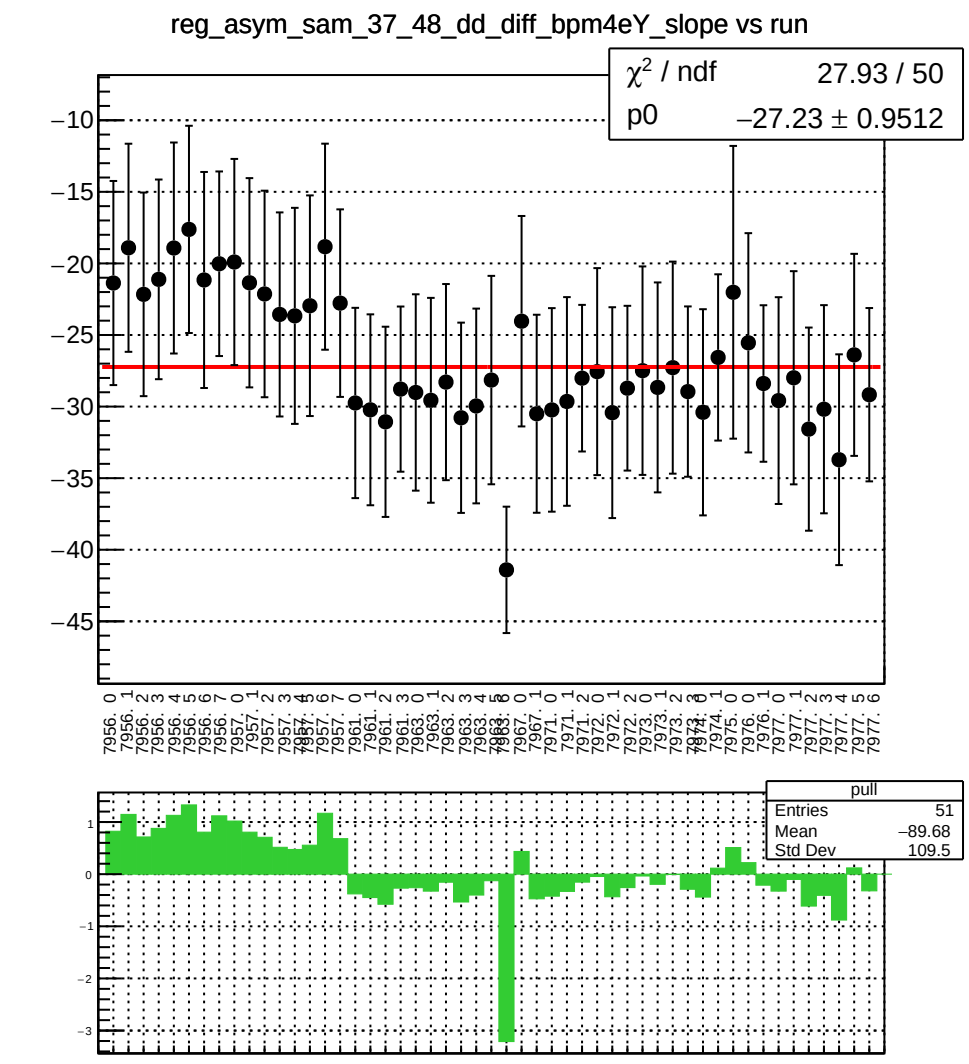

pull1D
Entries 51
Mean 0.01503
Std Dev 0.3807

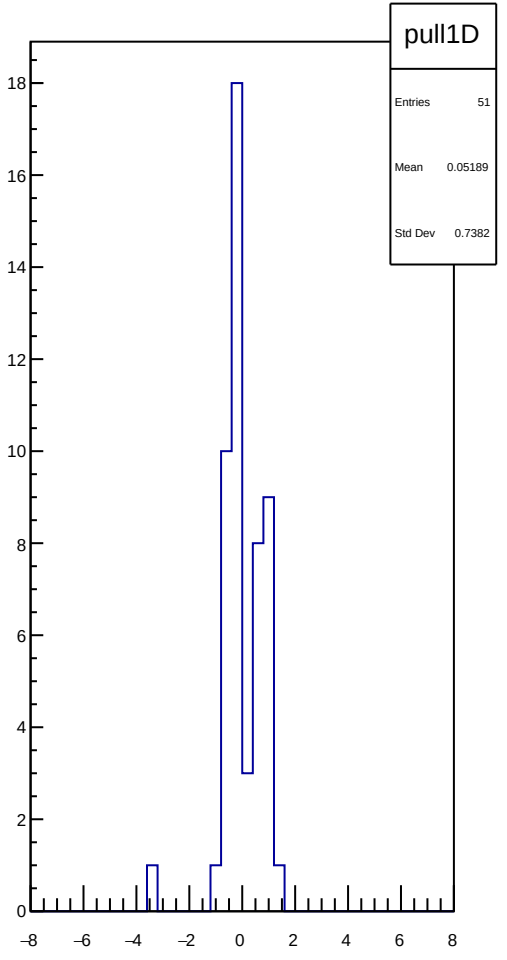

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.56 / 50
p0 −27.84 ± 0.8307
pull
Entries 51
Mean 9.392
Std Dev 21.69
pull1D
Entries 51
Mean −0.04217
Std Dev 0.5853

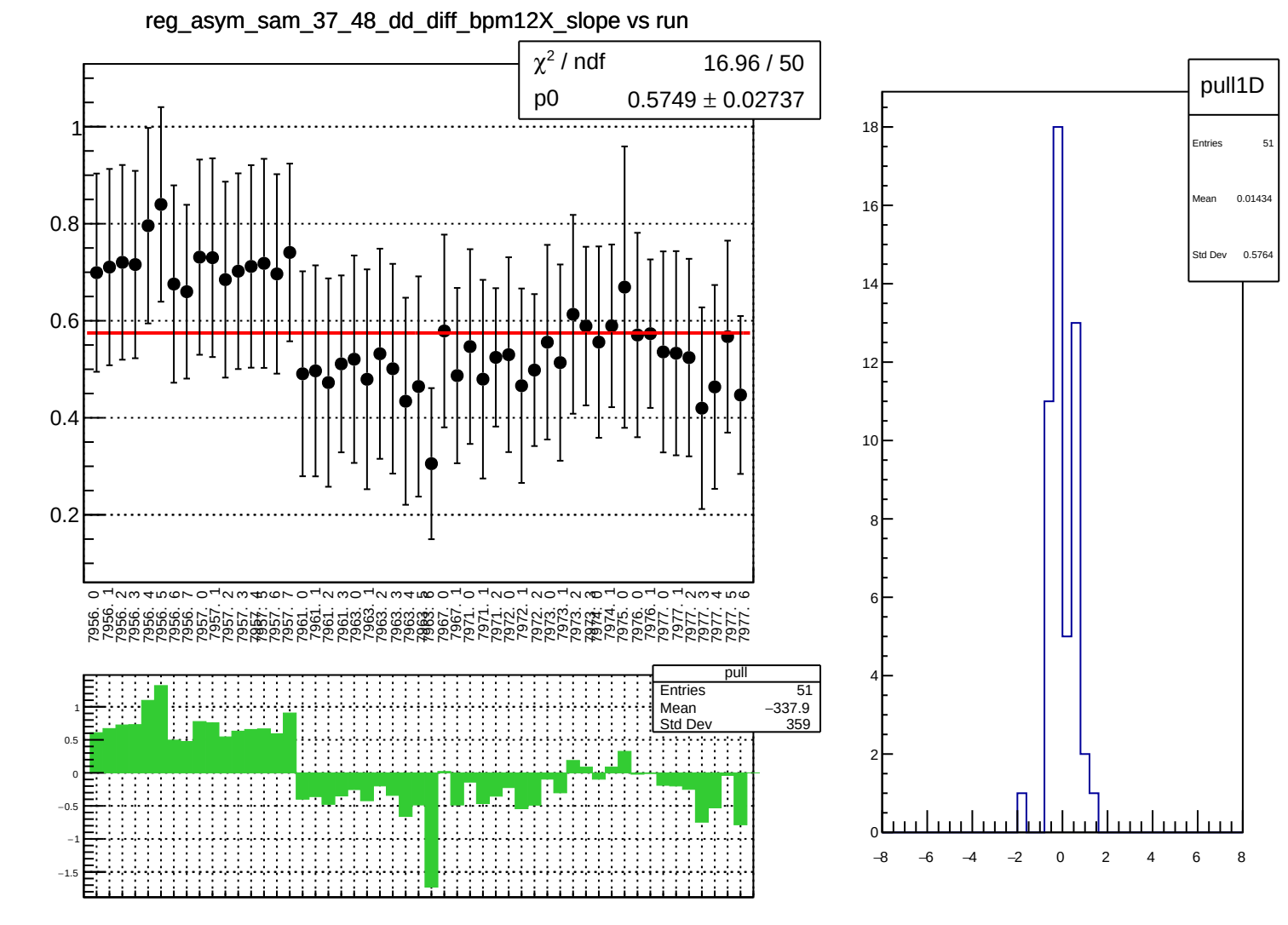
reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run

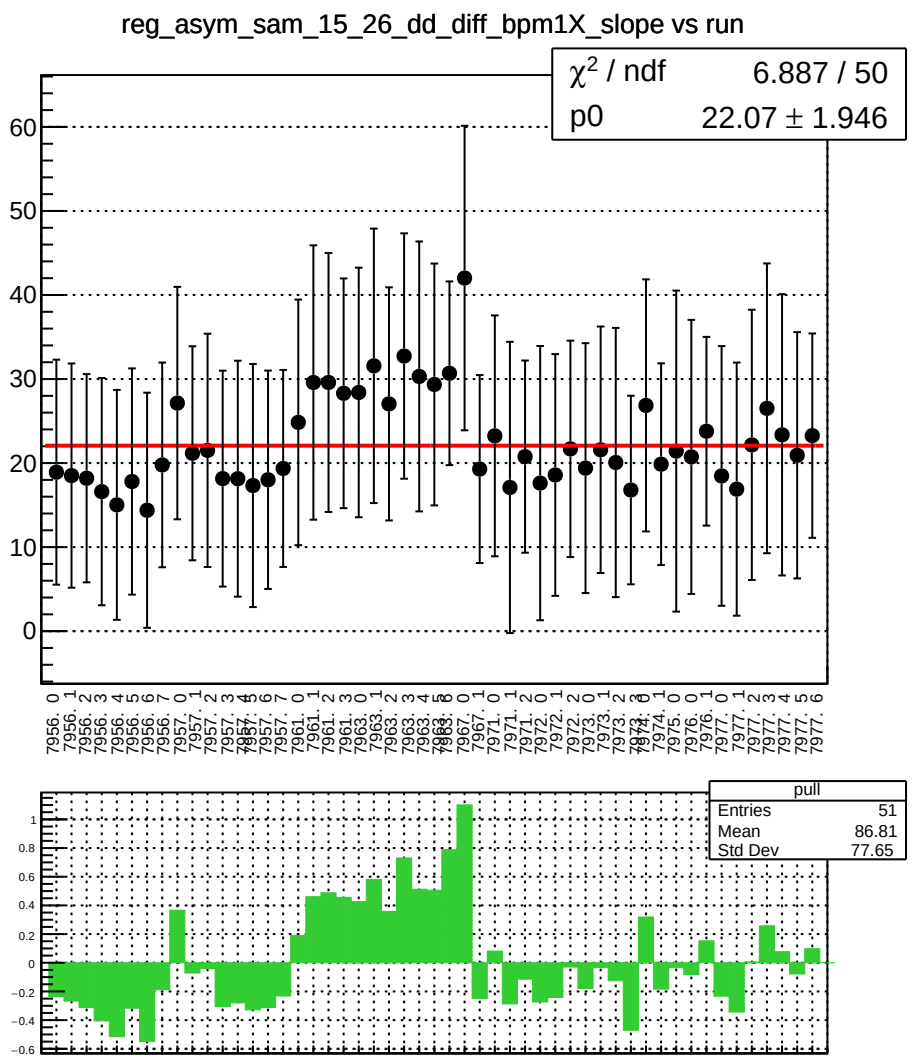


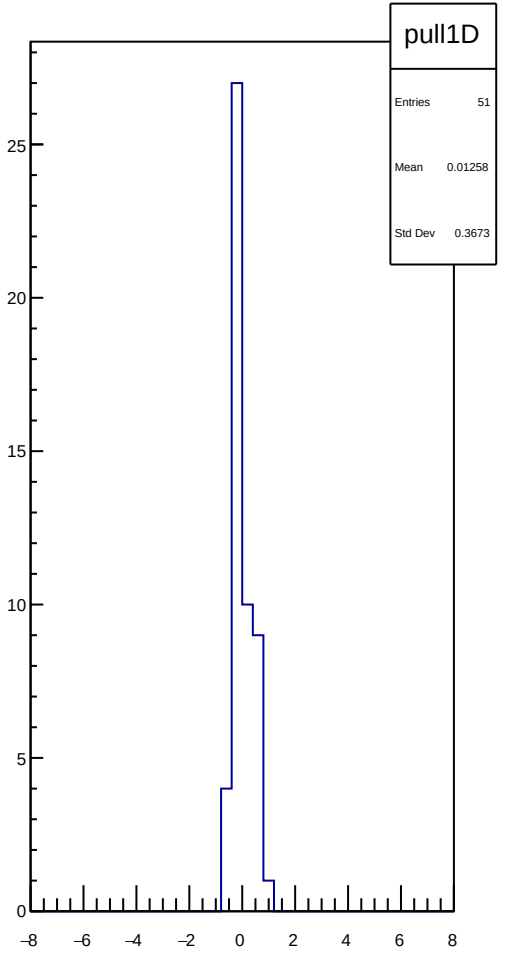


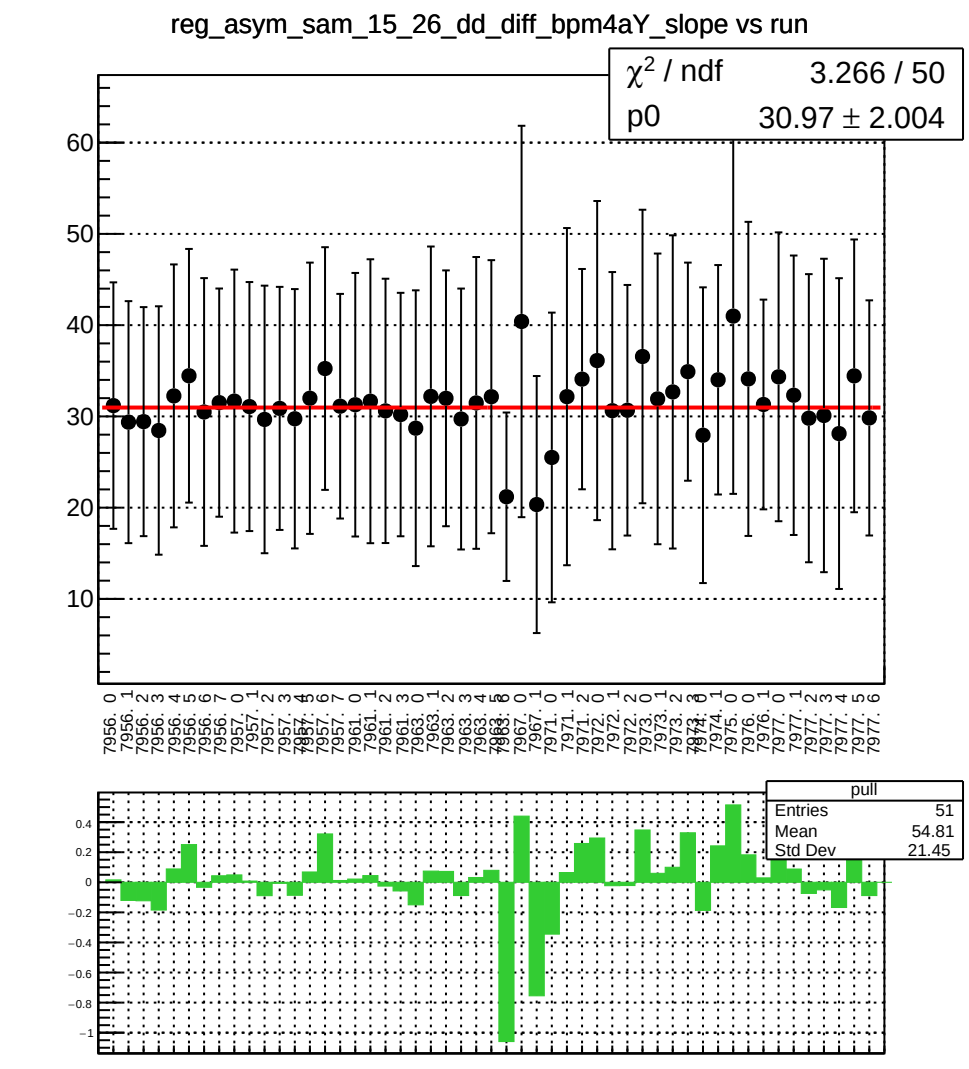

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.93 / 50
p0 −27.23 ± 0.9512
pull
Entries 51
Mean −89.68
Std Dev 109.5

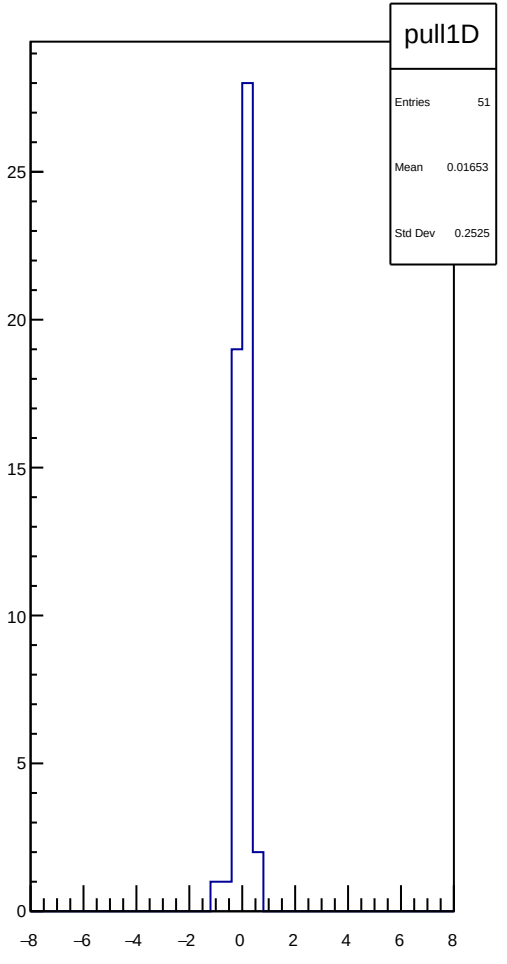

pull1D
Entries 51
Mean 0.05189
Std Dev 0.7382

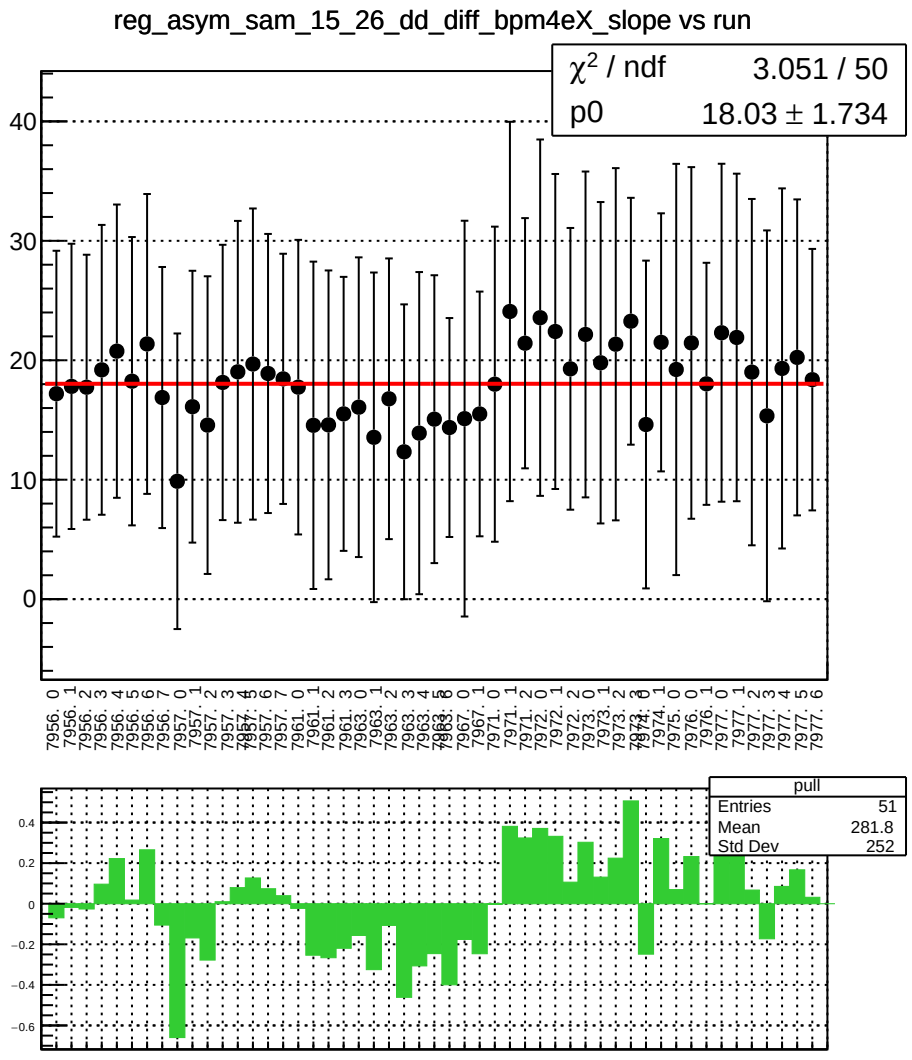

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.96 / 50
p0 0.5749 ± 0.02737
pull
Entries 51
Mean −337.9
Std Dev 359
pull1D
Entries 51
Mean 0.01434
Std Dev 0.5764

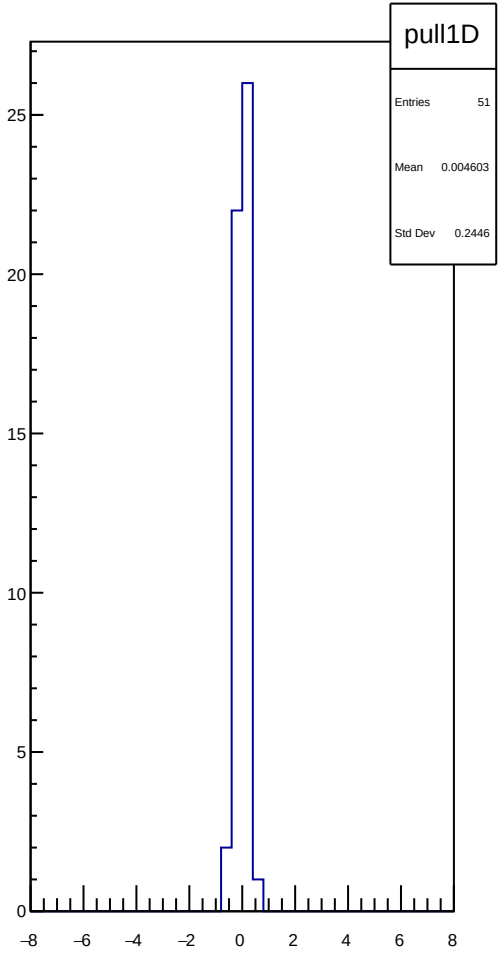

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.887 / 50
p0 22.07 ± 1.946
pull
Entries 51
Mean 86.81
Std Dev 77.65

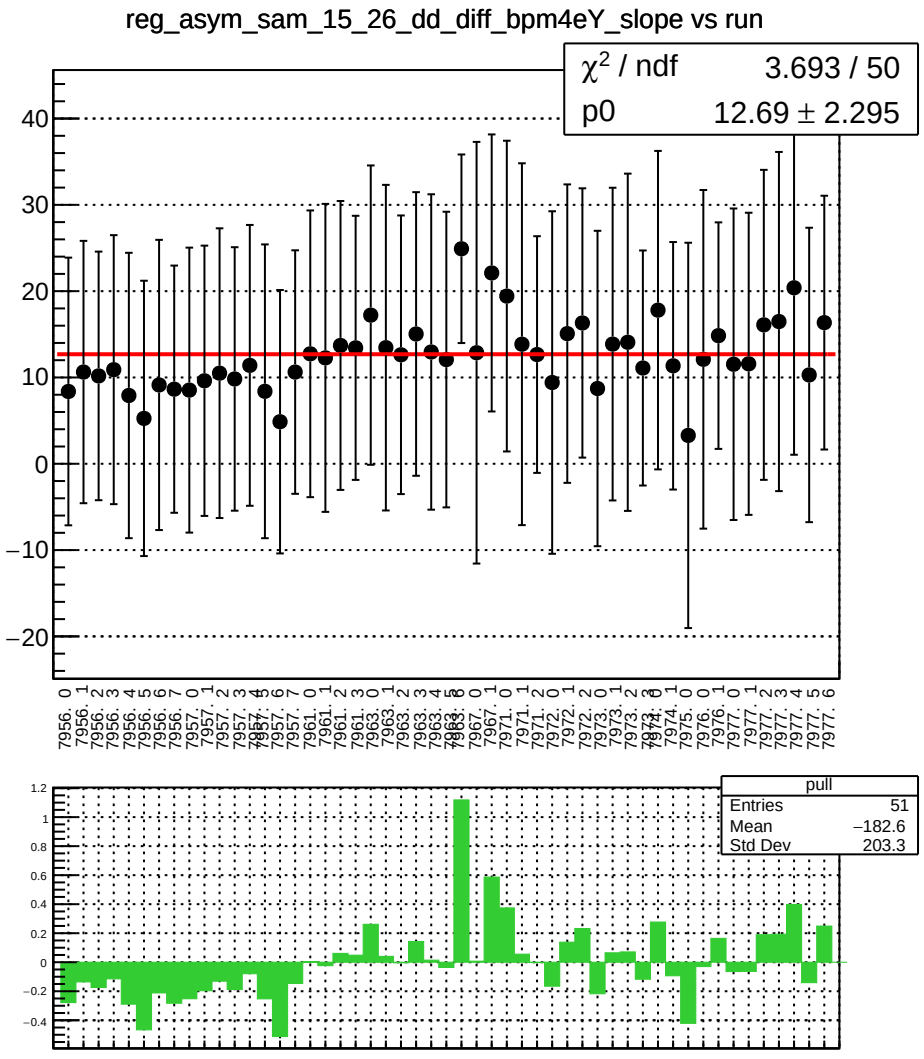

pull1D
Entries 51
Mean 0.01258
Std Dev 0.3673

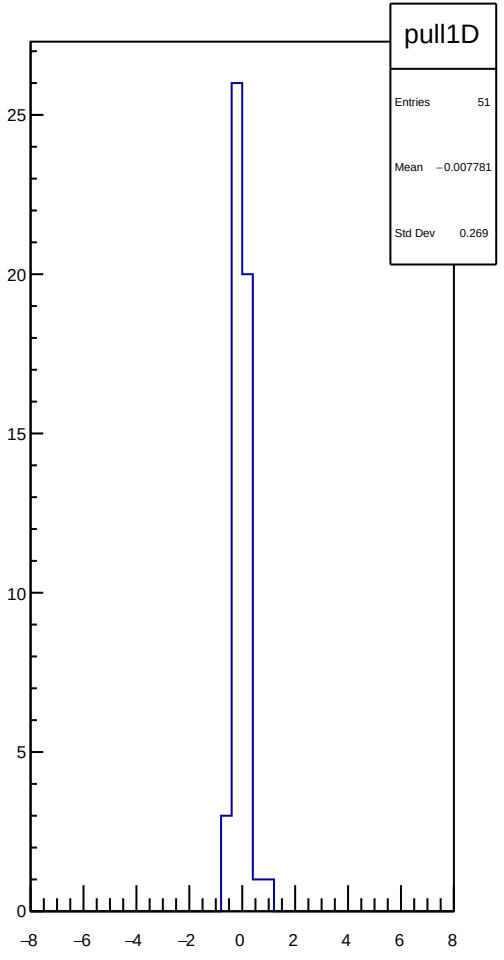

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.266 / 50
p0 30.97 ± 2.004
pull
Entries 51
Mean 54.81
Std Dev 21.45

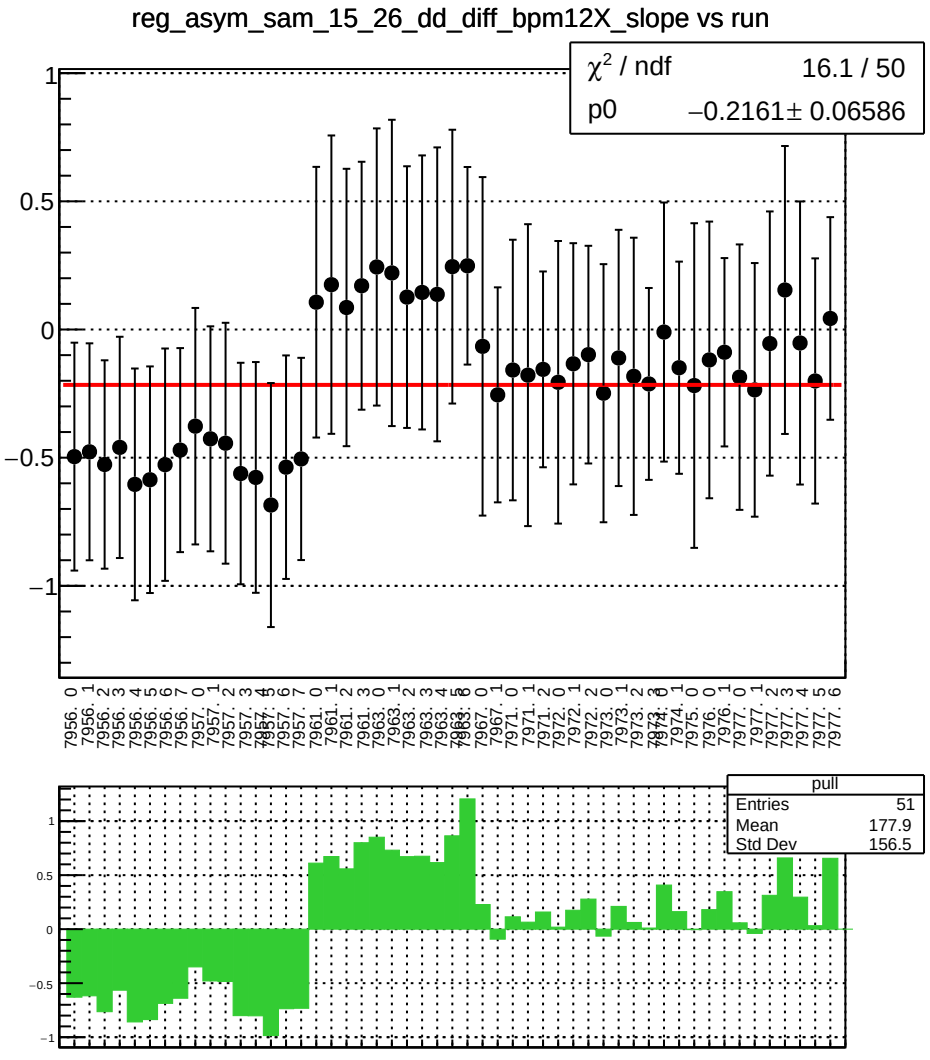

pull1D
Entries 51
Mean 0.01653
Std Dev 0.2525

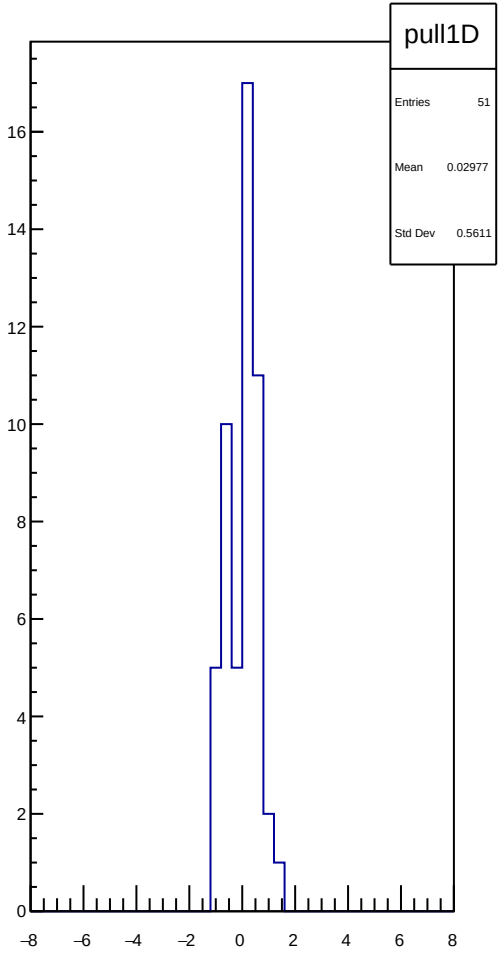

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.051 / 50
p0 18.03 ± 1.734
pull
Entries 51
Mean 281.8
Std Dev 252

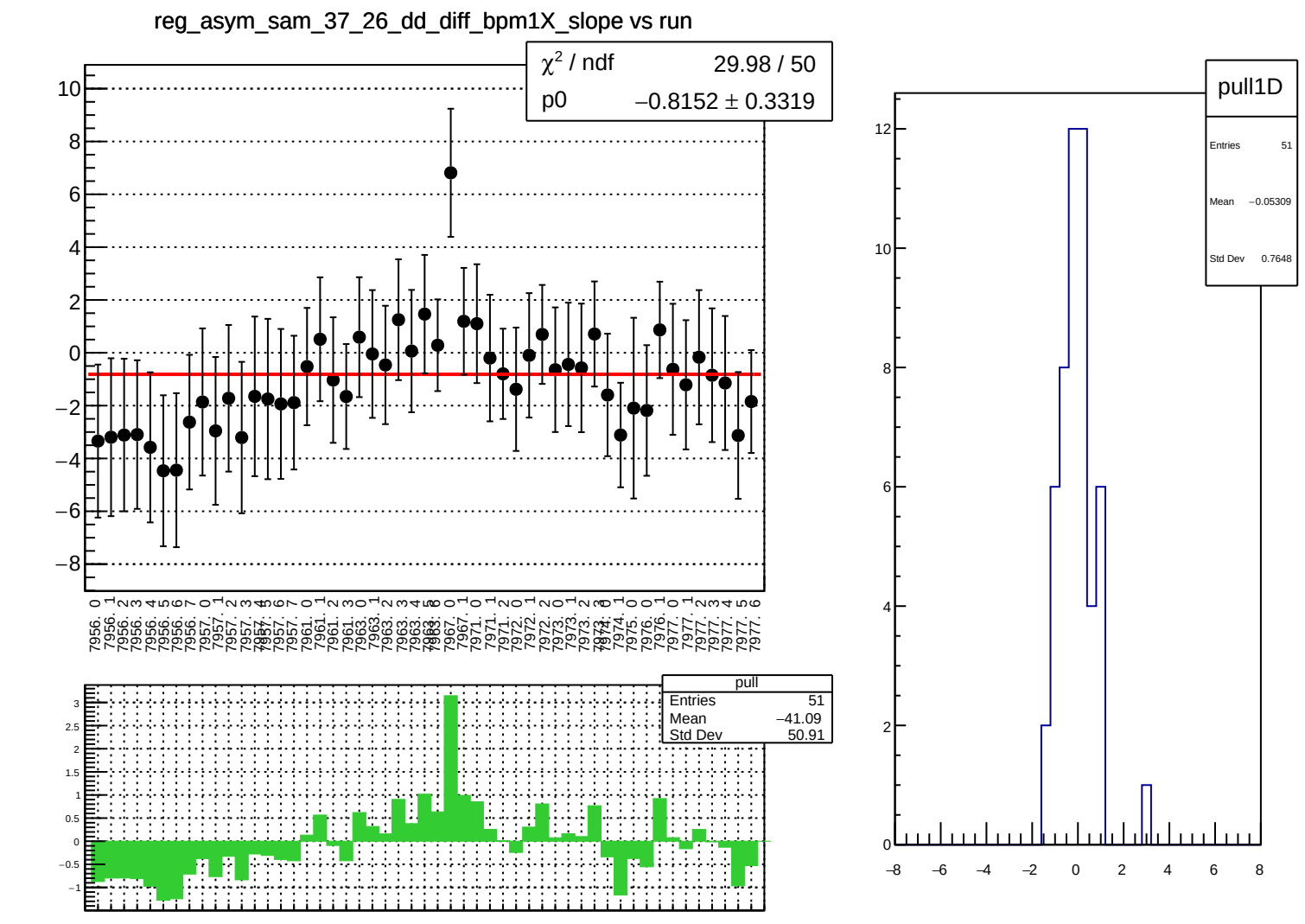

pull1D
Entries 51
Mean 0.004603
Std Dev 0.2446

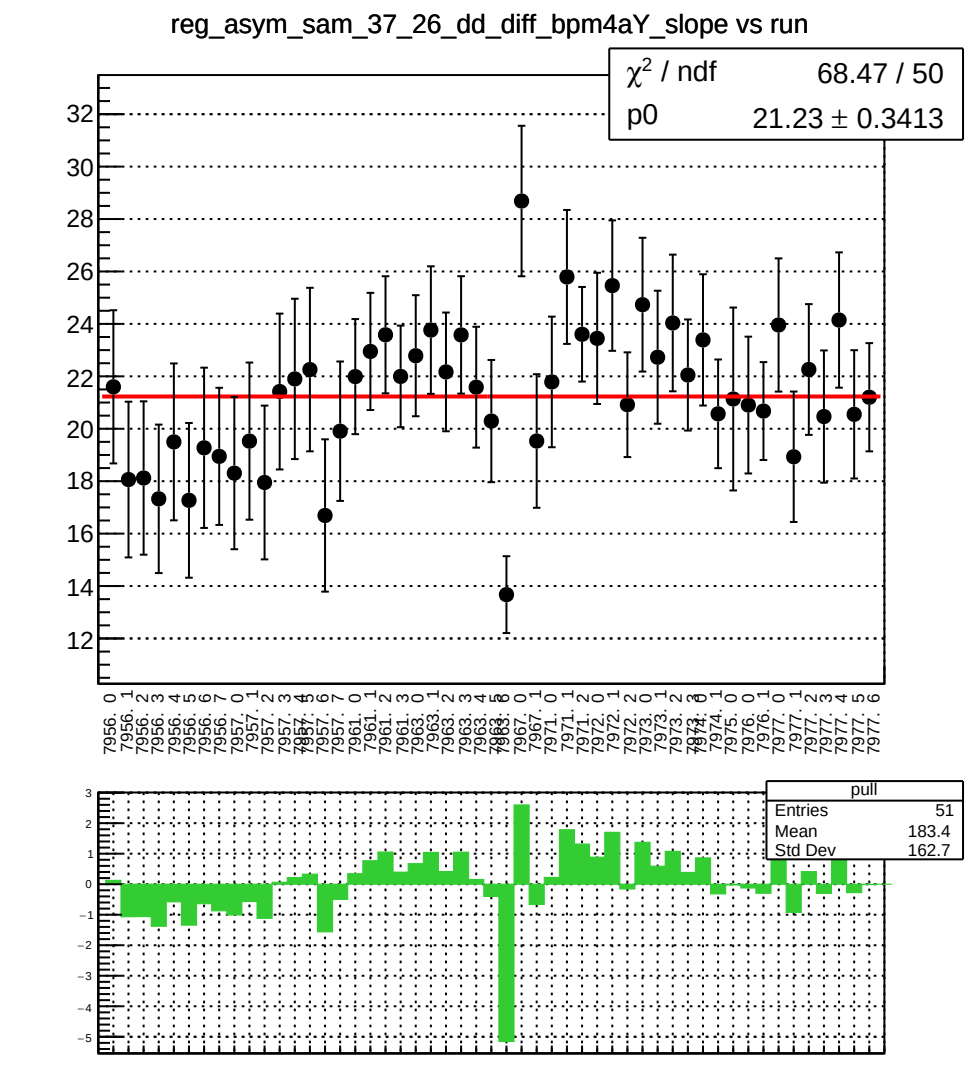

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.693 / 50
p0 12.69 ± 2.295
pull
Entries 51
Mean −182.6
Std Dev 203.3

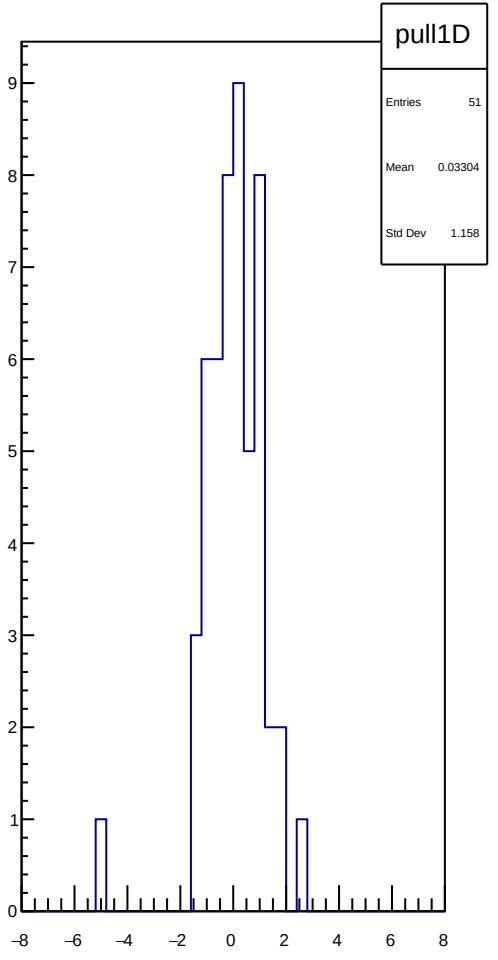

pull1D
Entries 51
Mean −0.007781
Std Dev 0.269

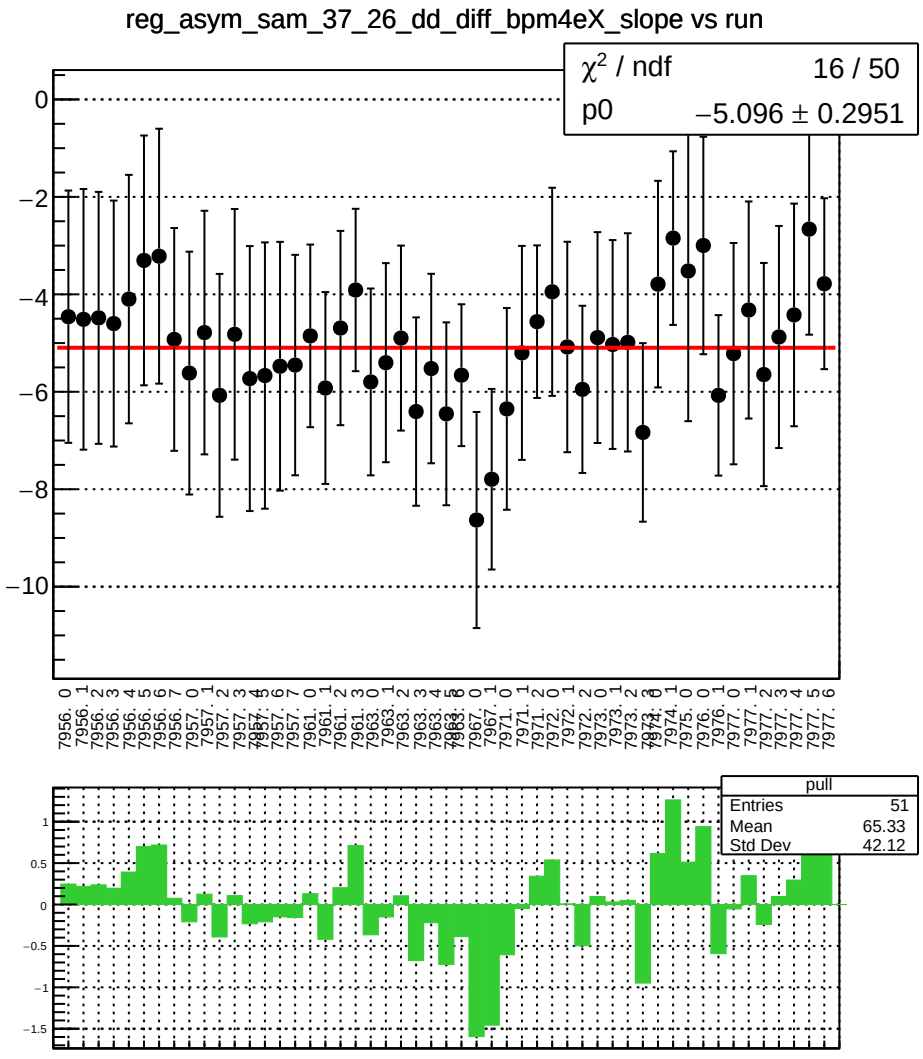

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16.1 / 50
p0 −0.2161± 0.06586
pull
Entries 51
Mean 177.9
Std Dev 156.5

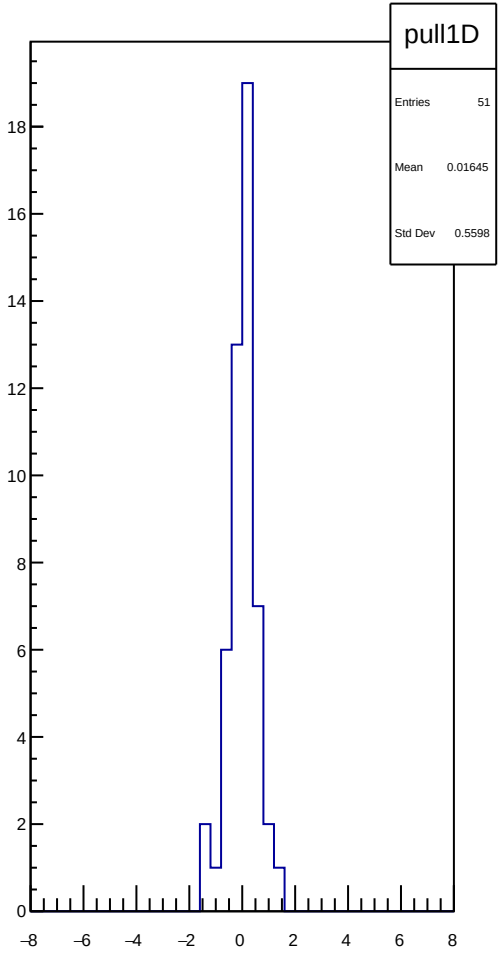

pull1D
Entries 51
Mean 0.02977
Std Dev 0.5611

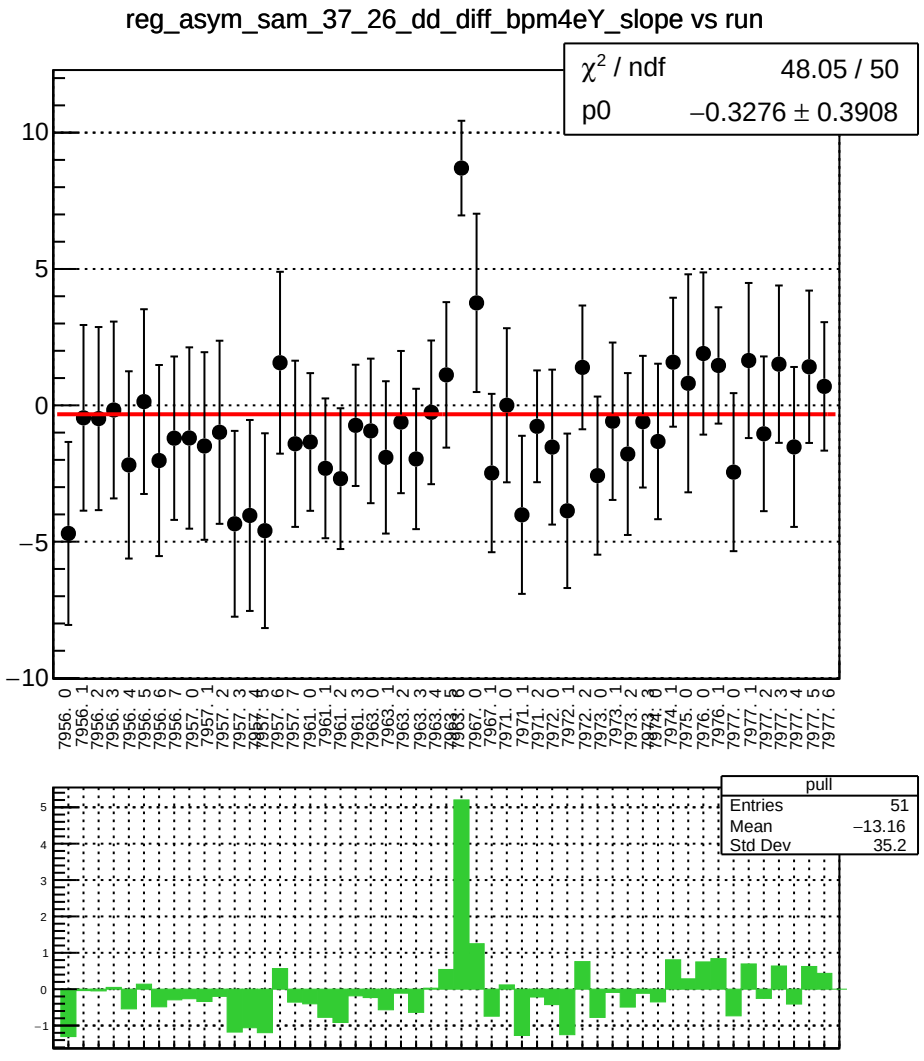

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 29.98 / 50
p0 −0.8152 ± 0.3319
pull
Entries 51
Mean −41.09
Std Dev 50.91
pull1D
Entries 51
Mean −0.05309
Std Dev 0.7648

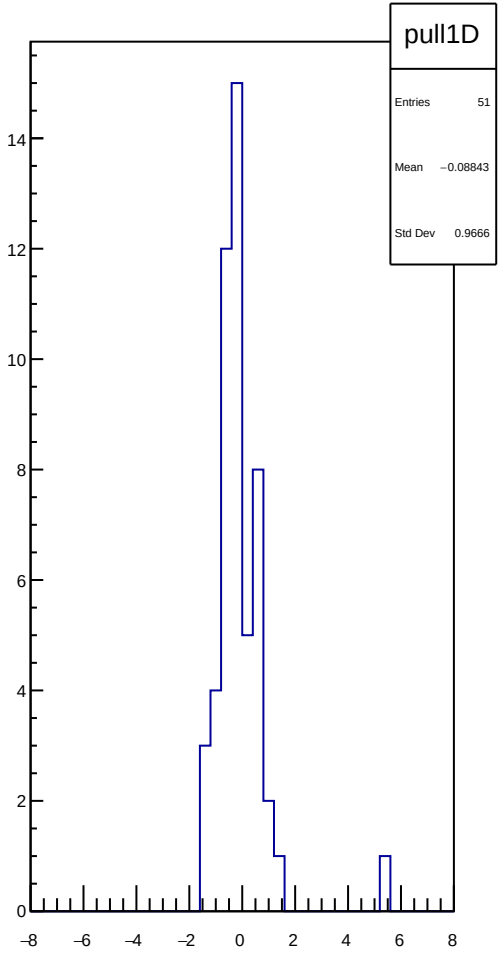

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.47 / 50
p0 21.23 ± 0.3413
pull
Entries 51
Mean 183.4
Std Dev 162.7

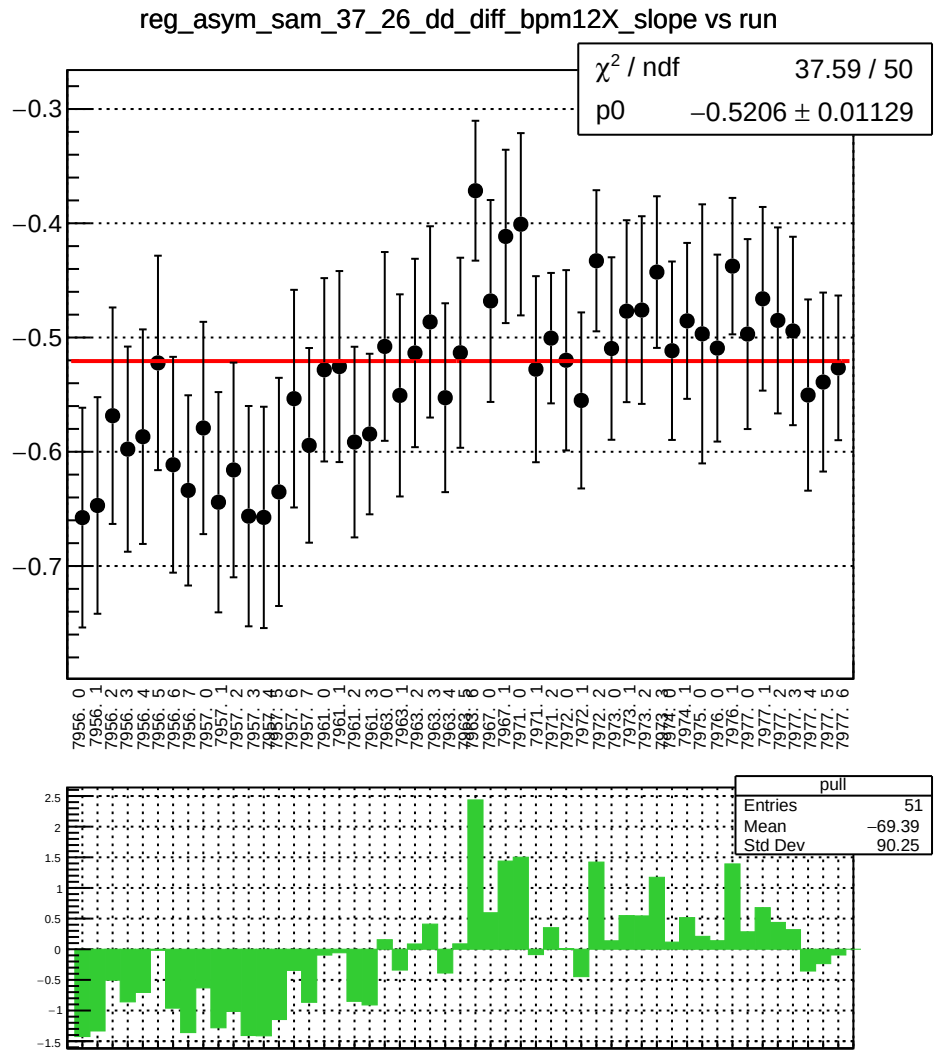

pull1D
Entries 51
Mean 0.03304
Std Dev 1.158

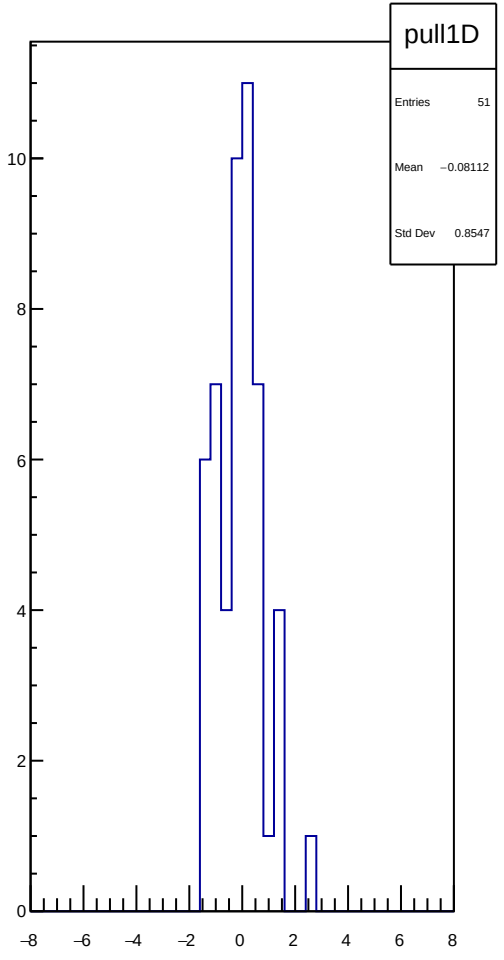

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 16 / 50
p0 −5.096 ± 0.2951
pull
Entries 51
Mean 65.33
Std Dev 42.12

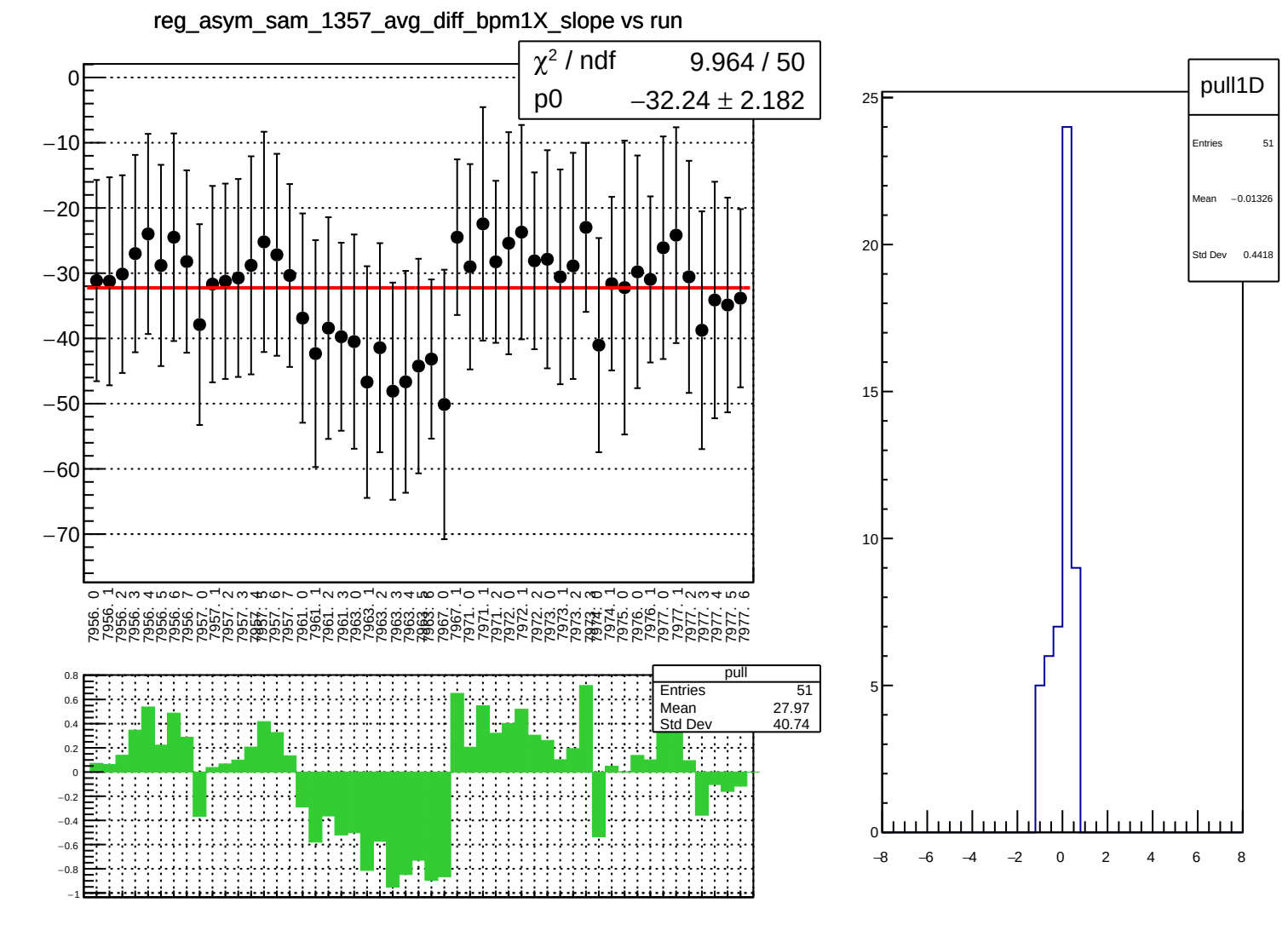

pull1D
Entries 51
Mean 0.01645
Std Dev 0.5598

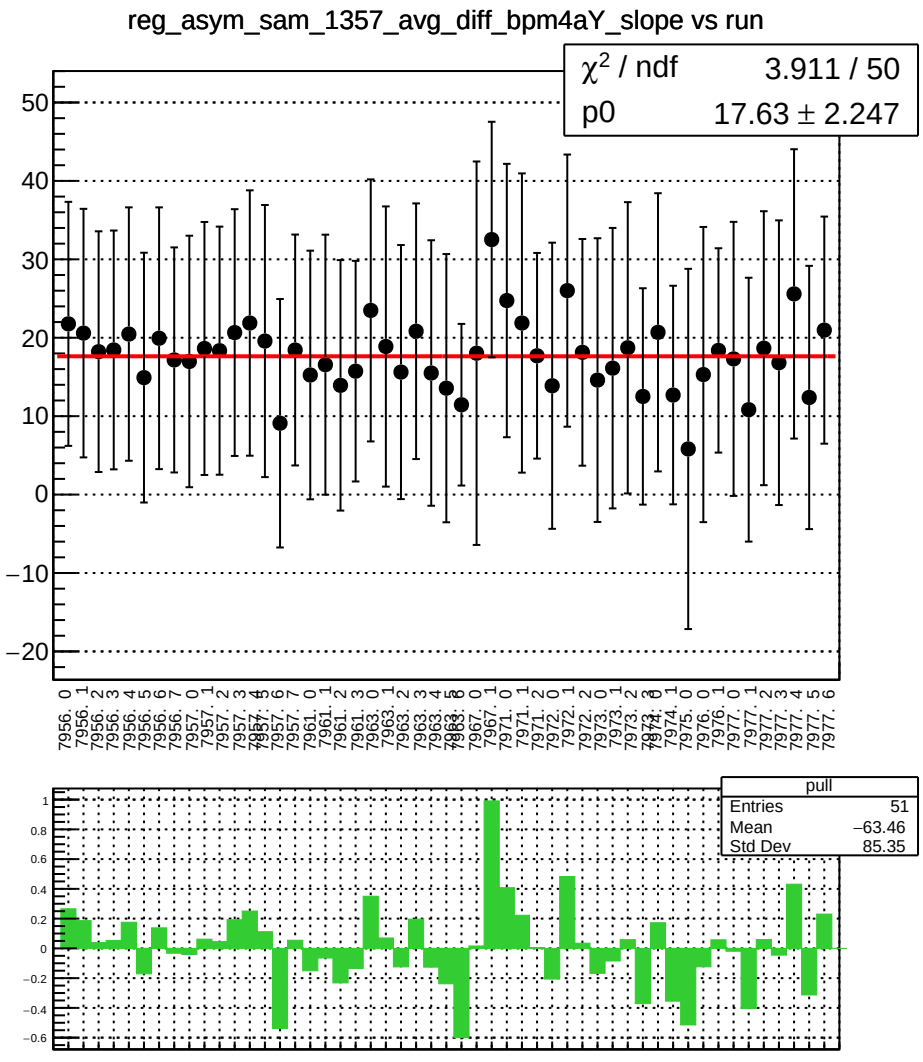

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.05 / 50
p0 −0.3276 ± 0.3908
pull
Entries 51
Mean −13.16
Std Dev 35.2

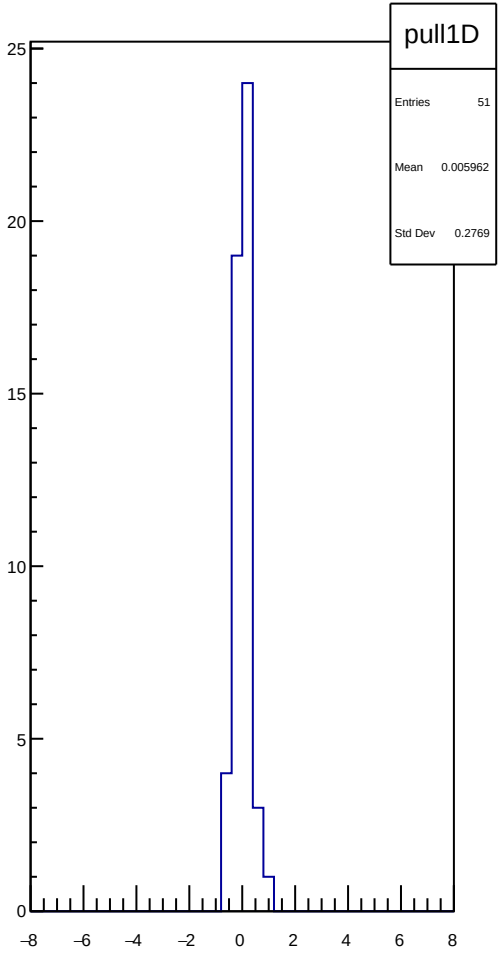

pull1D
Entries 51
Mean −0.08843
Std Dev 0.9666

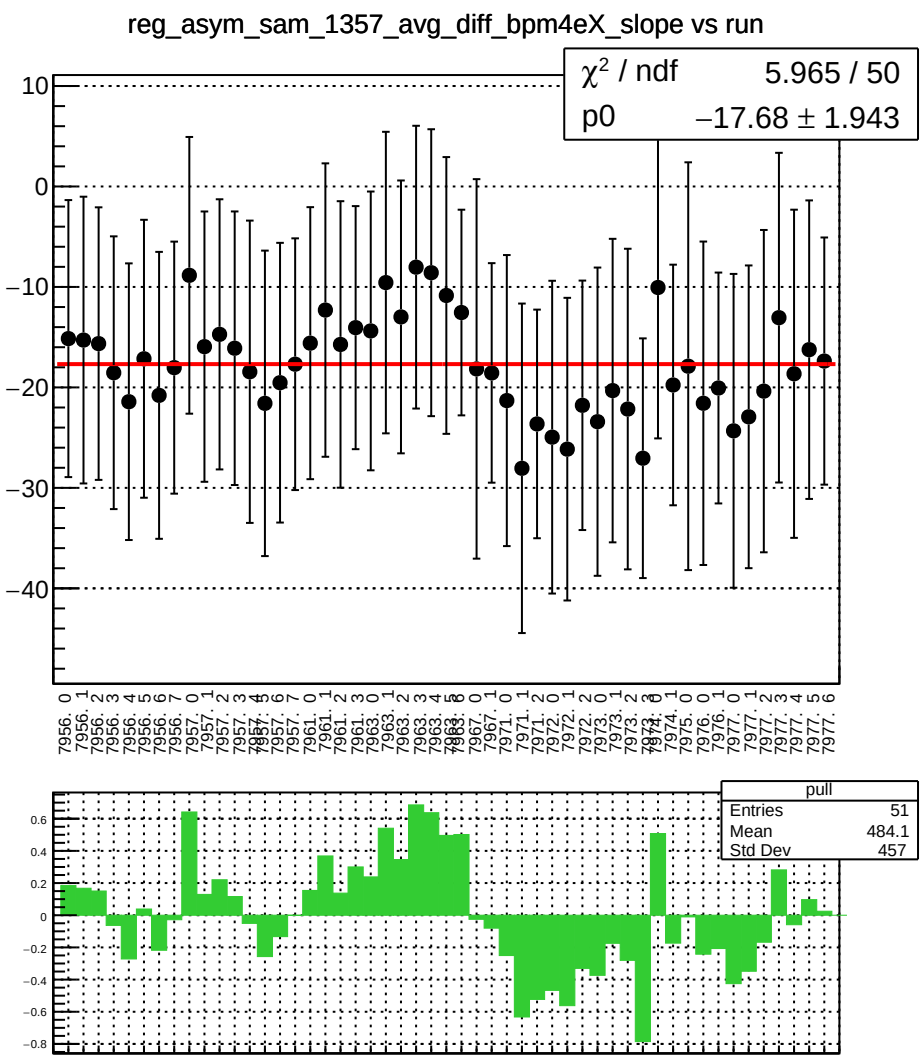

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 37.59 / 50
p0 −0.5206 ± 0.01129
pull
Entries 51
Mean −69.39
Std Dev 90.25

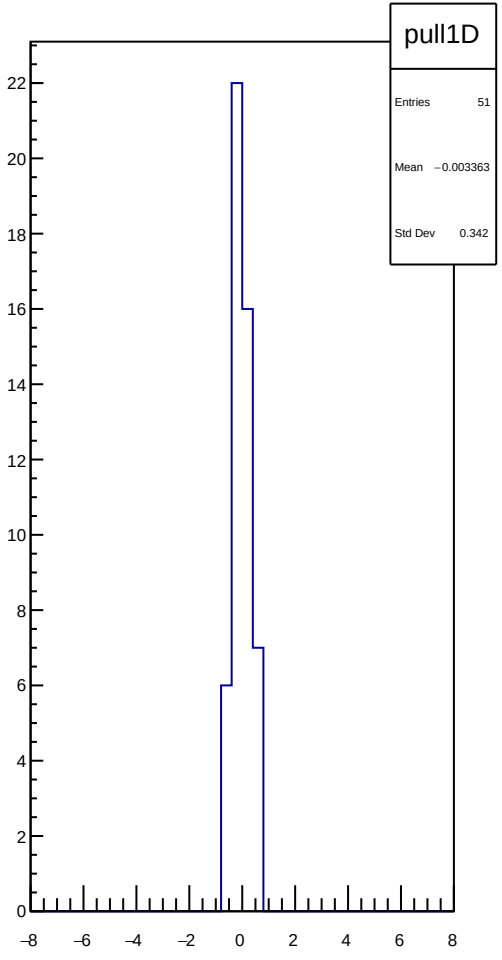

pull1D
Entries 51
Mean −0.08112
Std Dev 0.8547

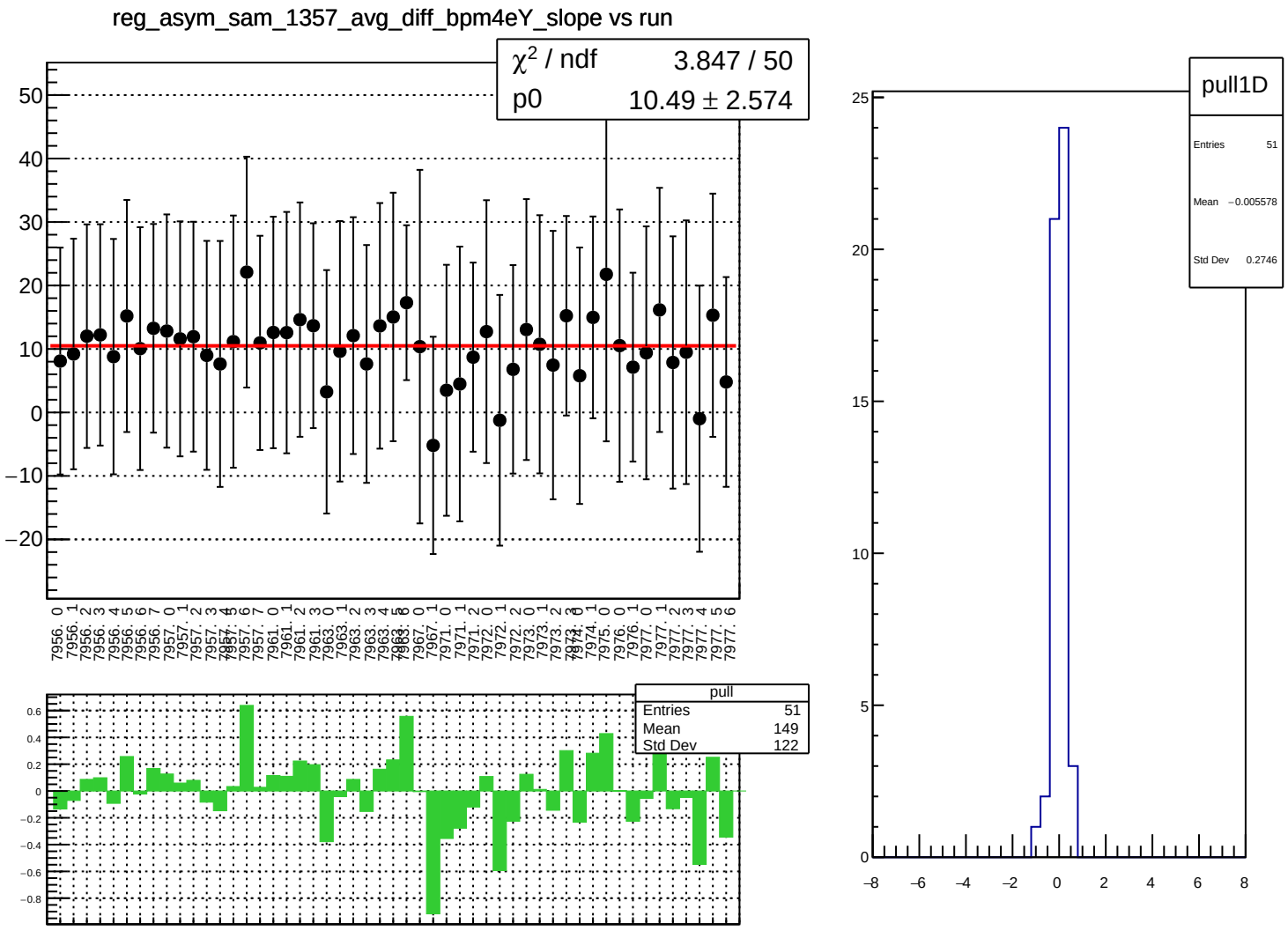

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 9.964 / 50
p0 −32.24 ± 2.182
pull
Entries 51
Mean 27.97
Std Dev 40.74
pull1D
Entries 51
Mean −0.01326
Std Dev 0.4418

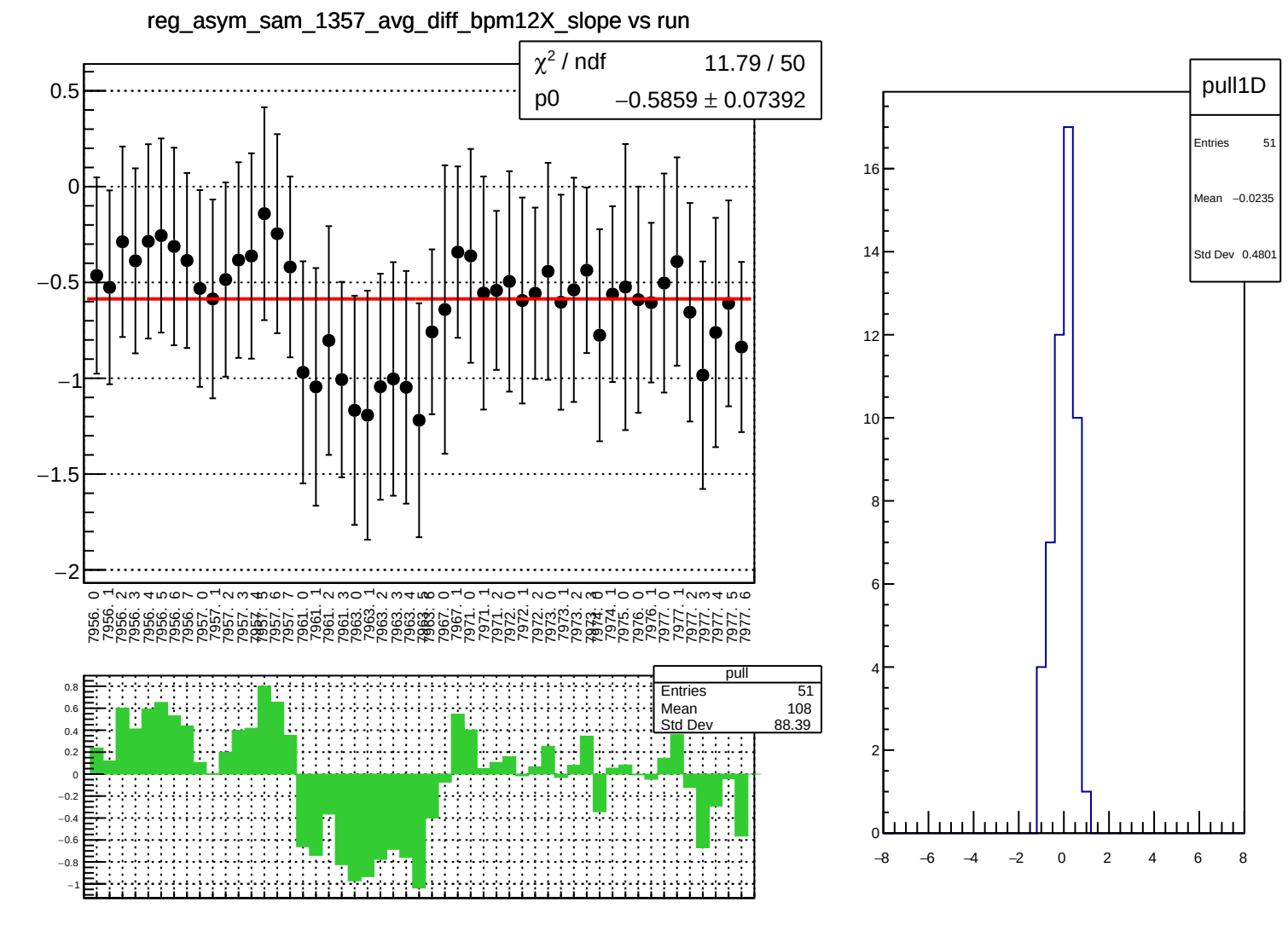

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.911 / 50
p0 17.63 ± 2.247
pull
Entries 51
Mean −63.46
Std Dev 85.35

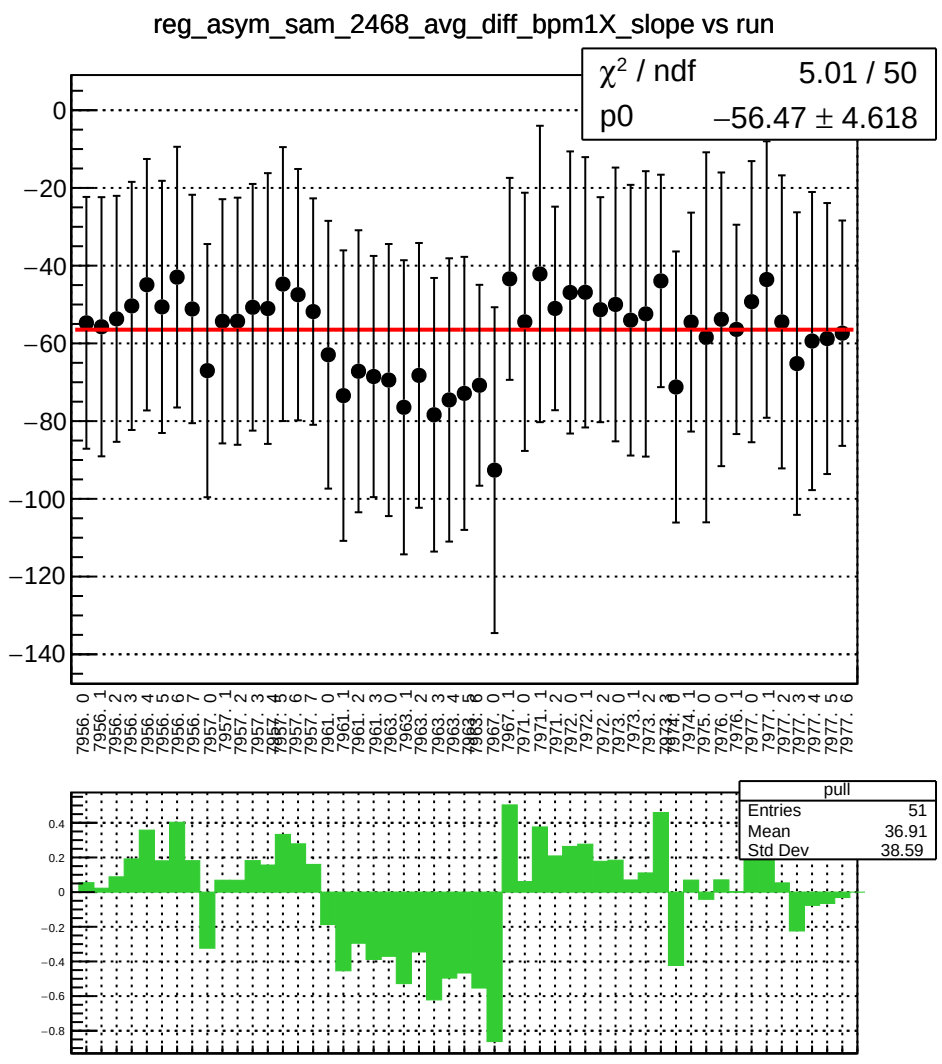

pull1D
Entries 51
Mean 0.005962
Std Dev 0.2769

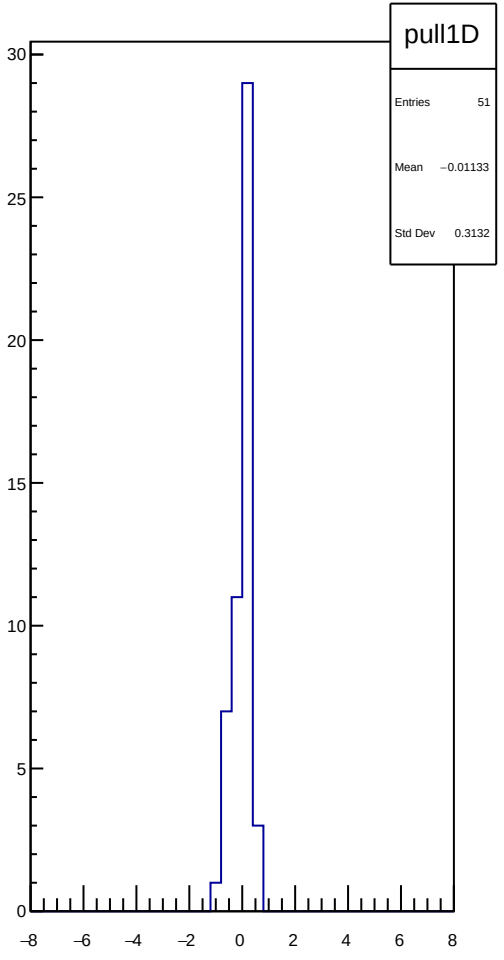

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.965 / 50
p0 −17.68 ± 1.943
pull
Entries 51
Mean 484.1
Std Dev 457

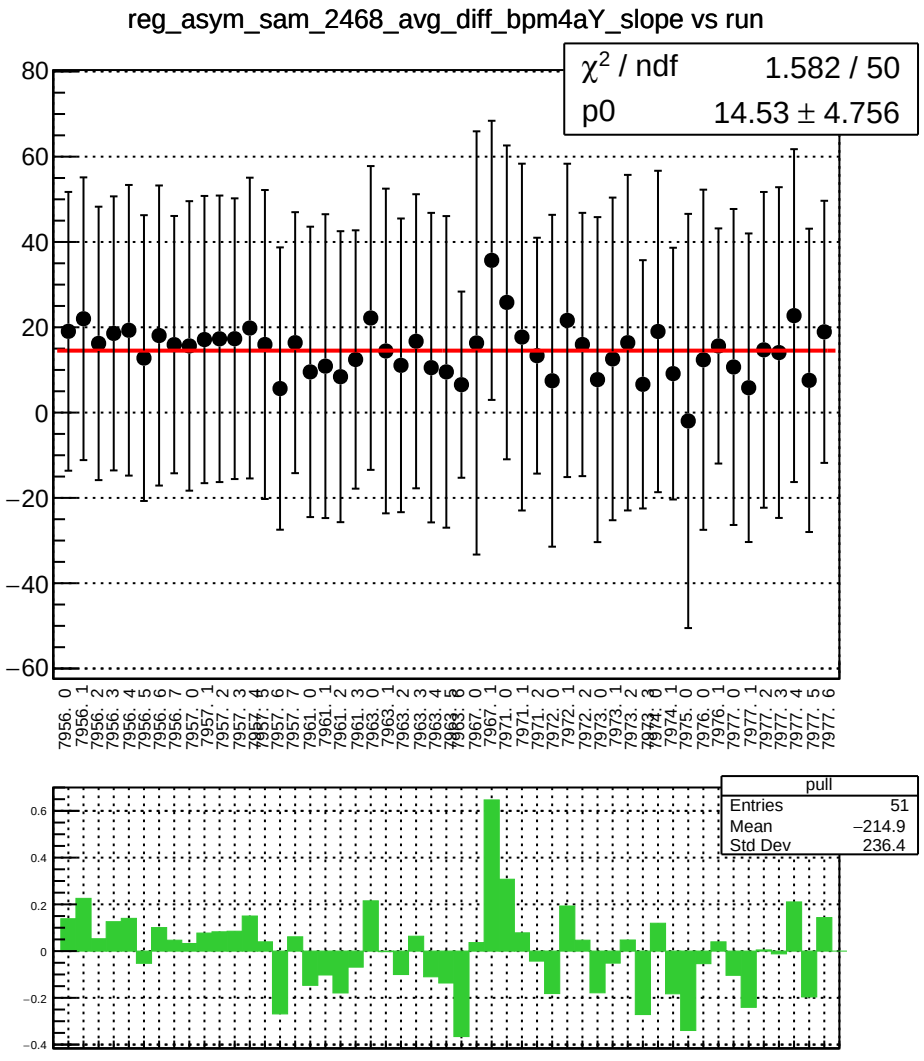

pull1D
Entries 51
Mean −0.003363
Std Dev 0.342

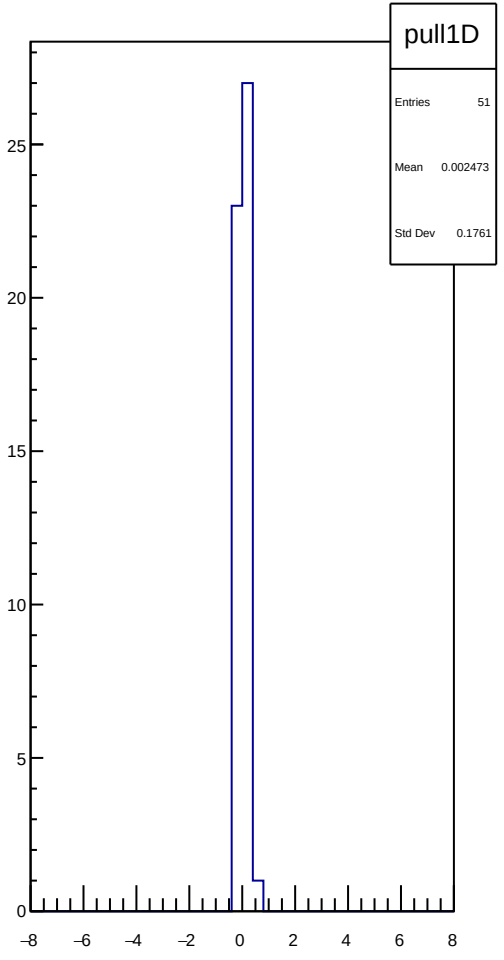

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.847 / 50
p0 10.49 ± 2.574
pull
Entries 51
Mean 149
Std Dev 122
pull1D
Entries 51
Mean −0.005578
Std Dev 0.2746

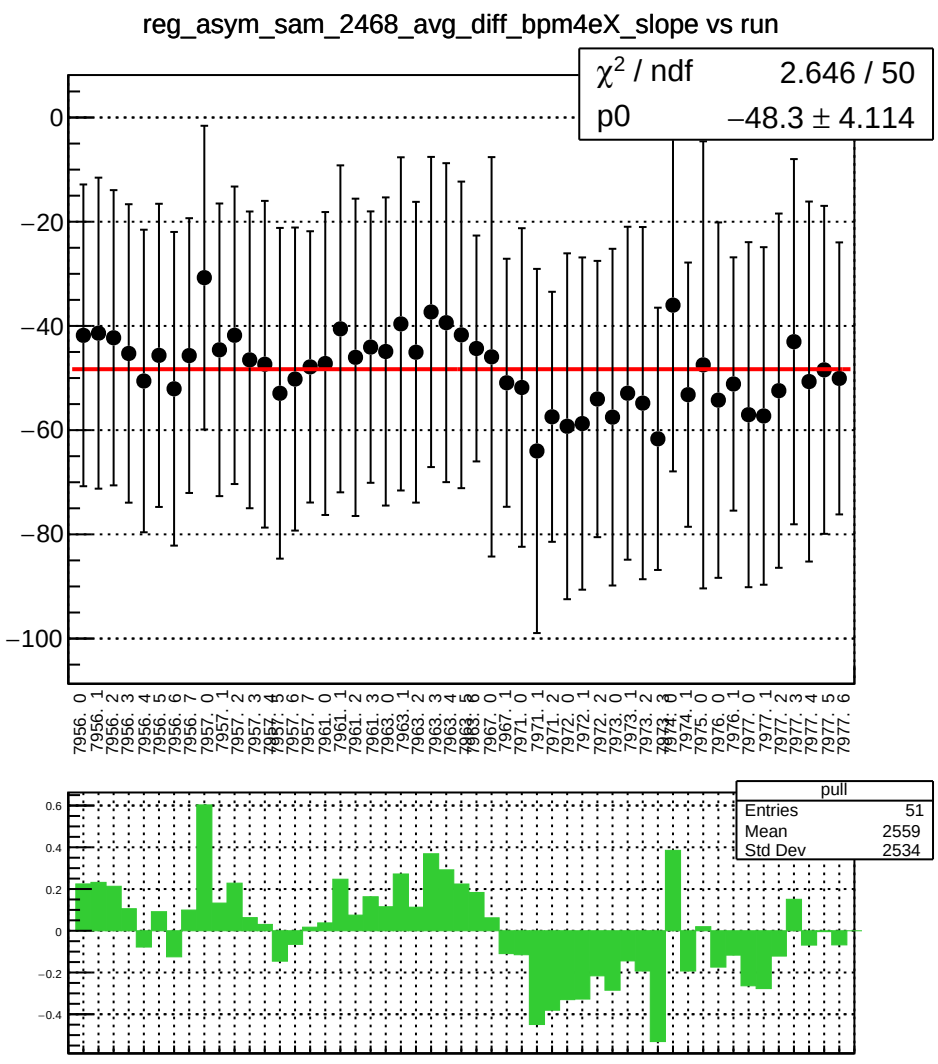

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 11.79 / 50
p0 −0.5859 ± 0.07392
pull
Entries 51
Mean 108
Std Dev 88.39
pull1D
Entries 51
Mean −0.0235
Std Dev 0.4801

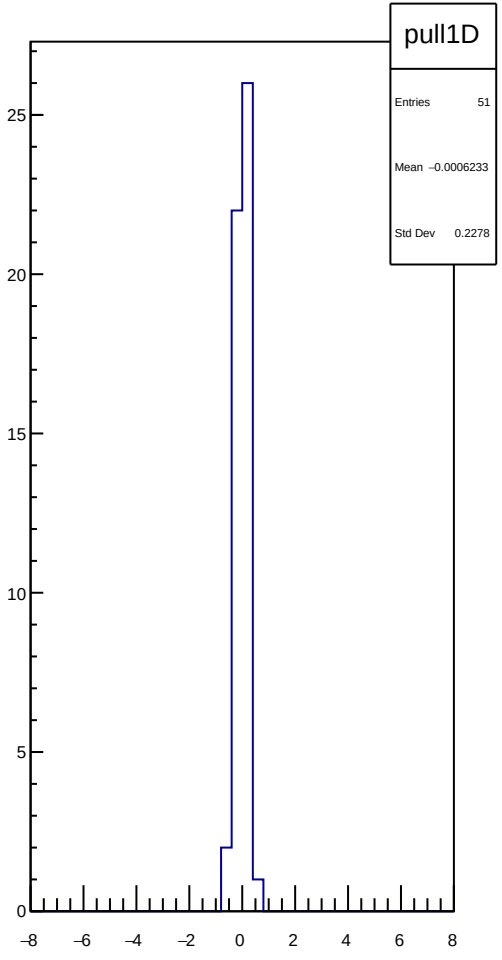

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.01 / 50
p0 −56.47 ± 4.618
pull
Entries 51
Mean 36.91
Std Dev 38.59

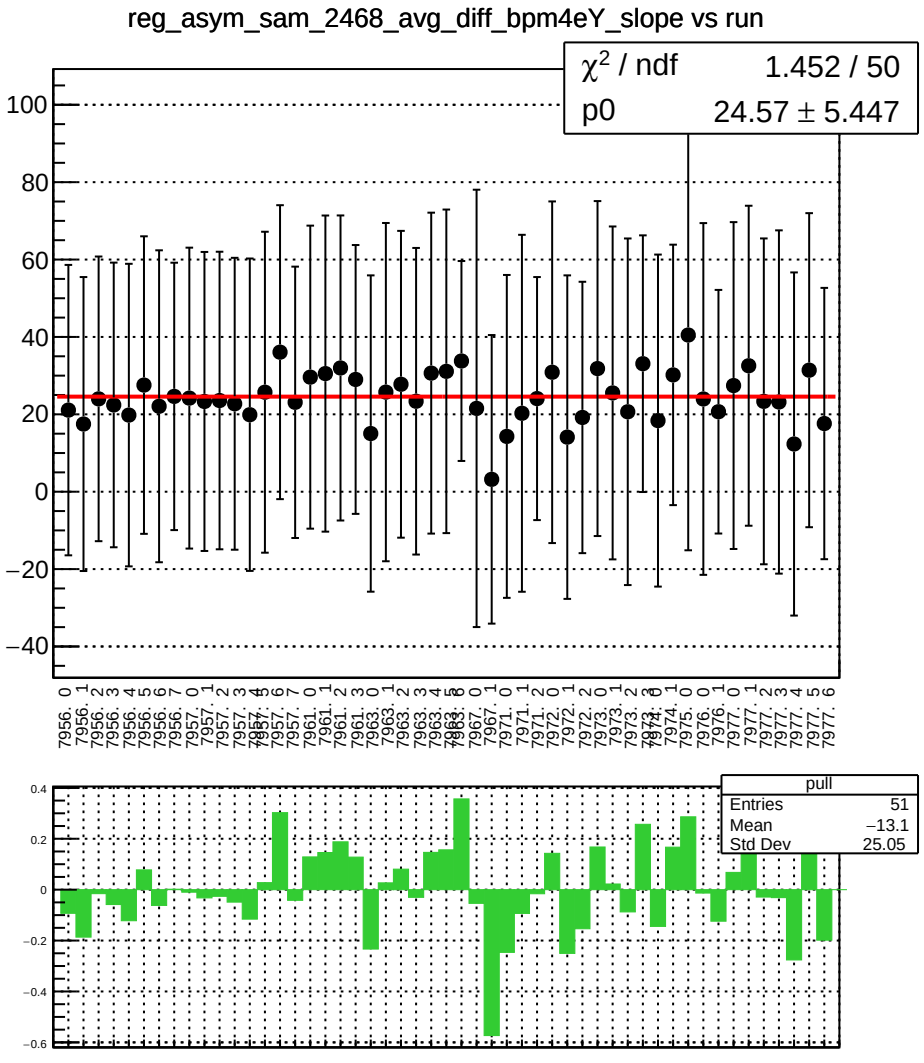

pull1D
Entries 51
Mean −0.01133
Std Dev 0.3132

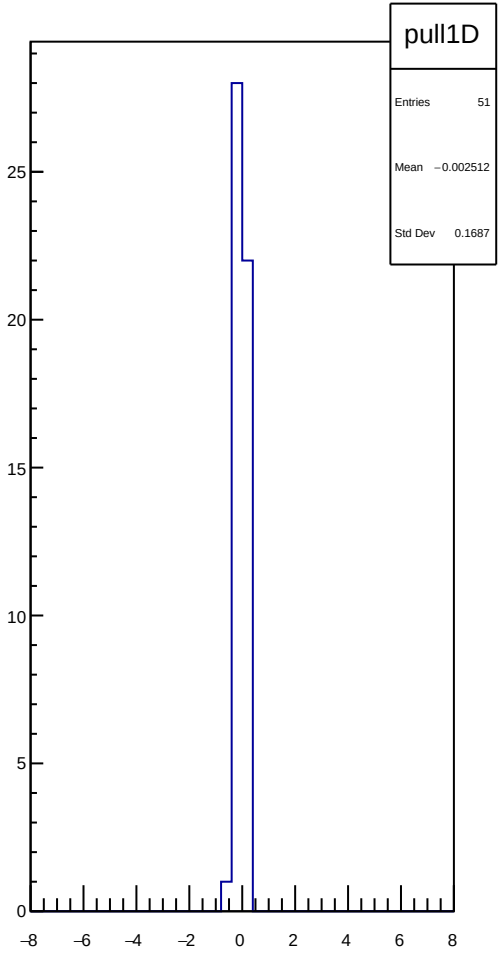

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.582 / 50
p0 14.53 ± 4.756
pull
Entries 51
Mean −214.9
Std Dev 236.4

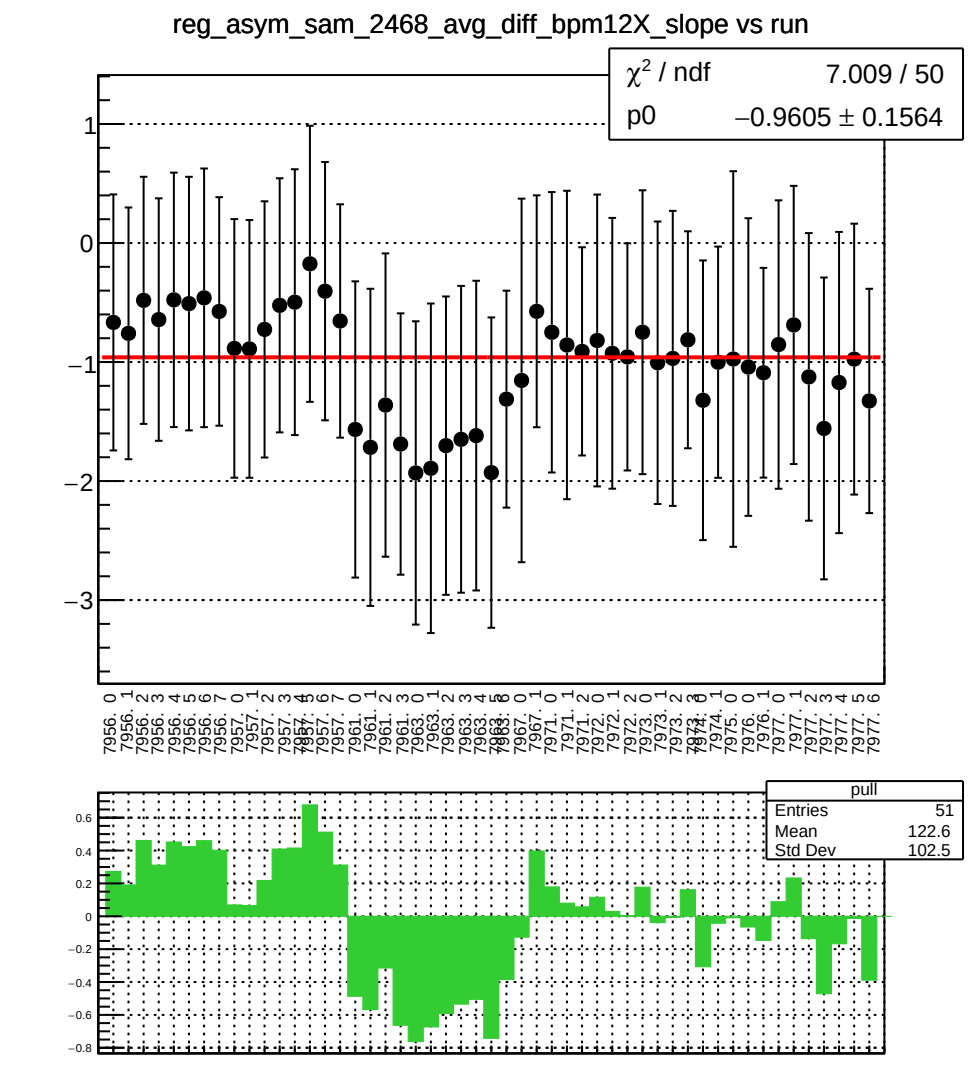

pull1D
Entries 51
Mean 0.002473
Std Dev 0.1761

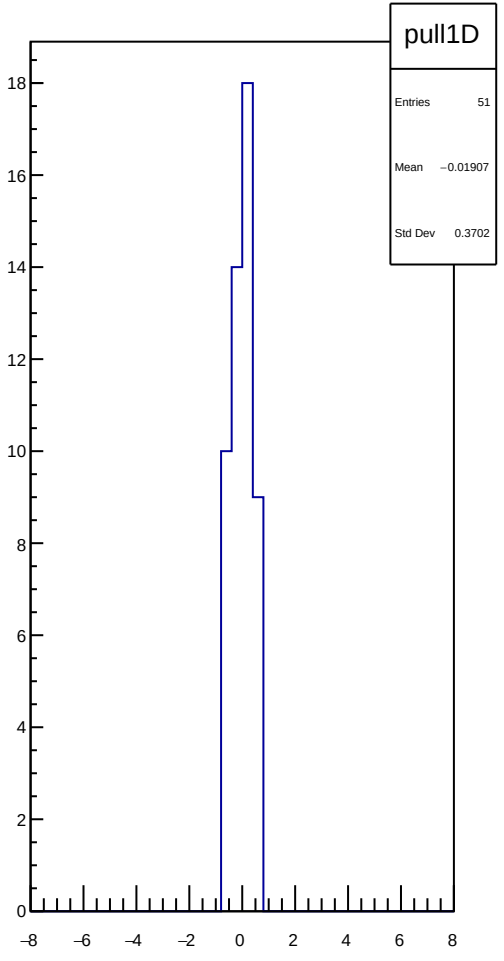

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.646 / 50
p0 −48.3 ± 4.114
pull
Entries 51
Mean 2559
Std Dev 2534

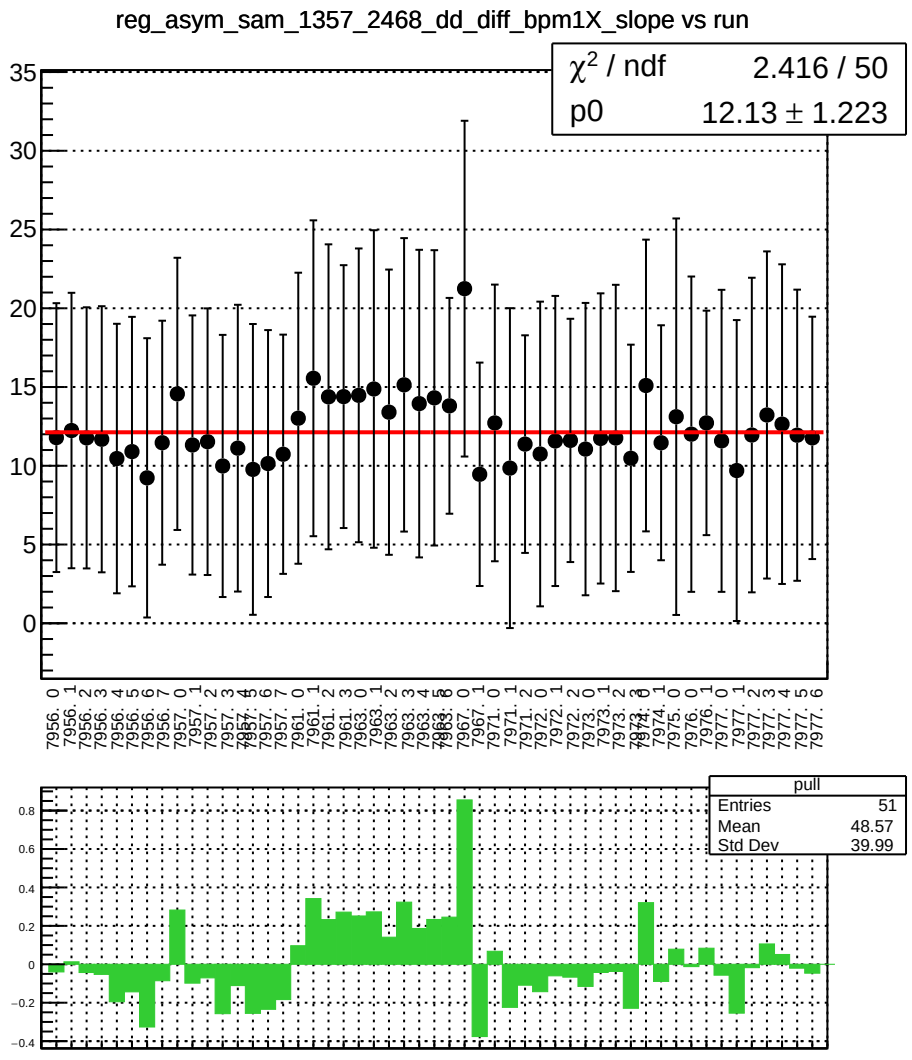

pull1D
Entries 51
Mean −0.0006233
Std Dev 0.2278

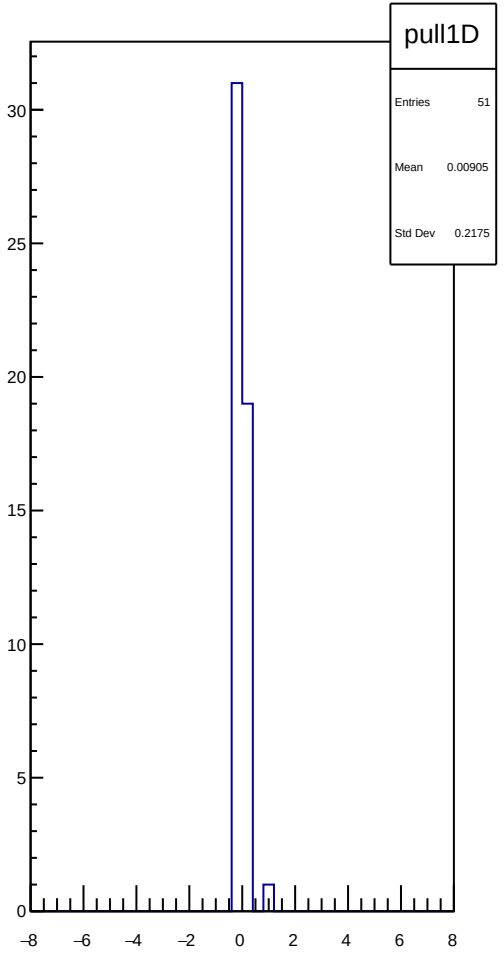

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.452 / 50
p0 24.57 ± 5.447
pull
Entries 51
Mean −13.1
Std Dev 25.05

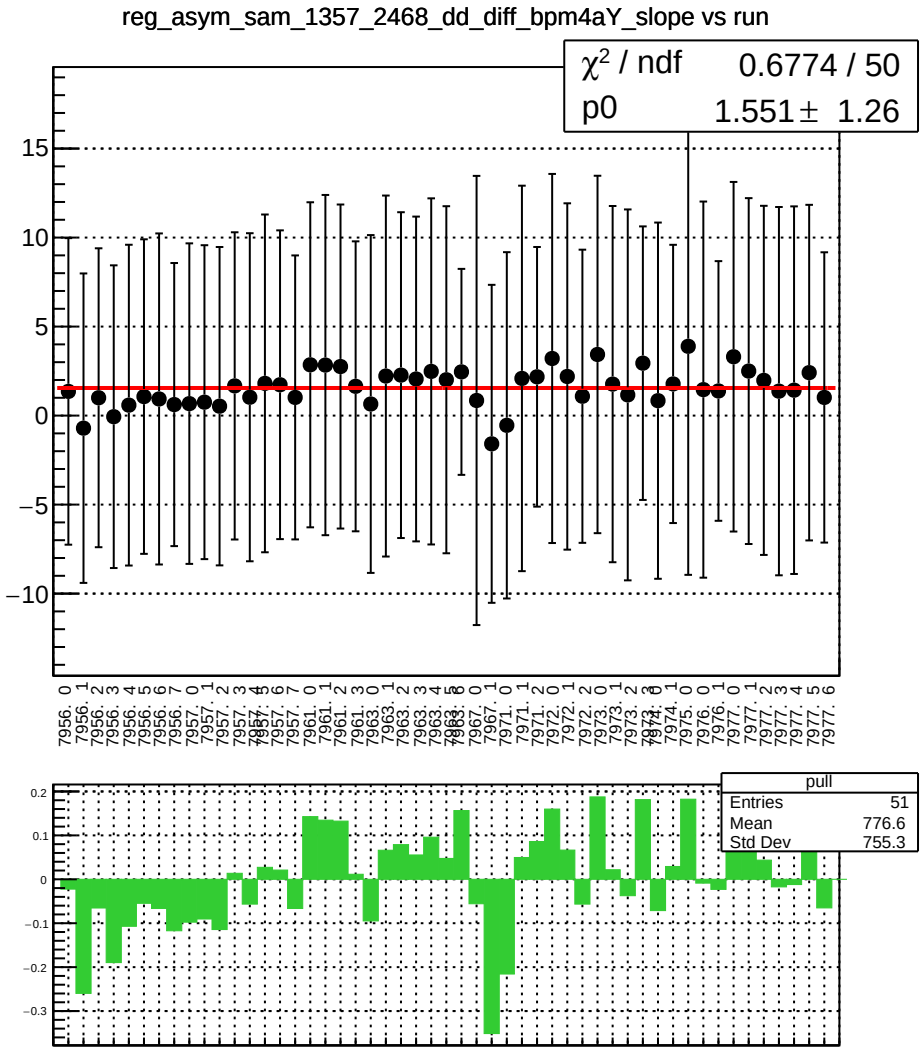

pull1D
Entries 51
Mean −0.002512
Std Dev 0.1687

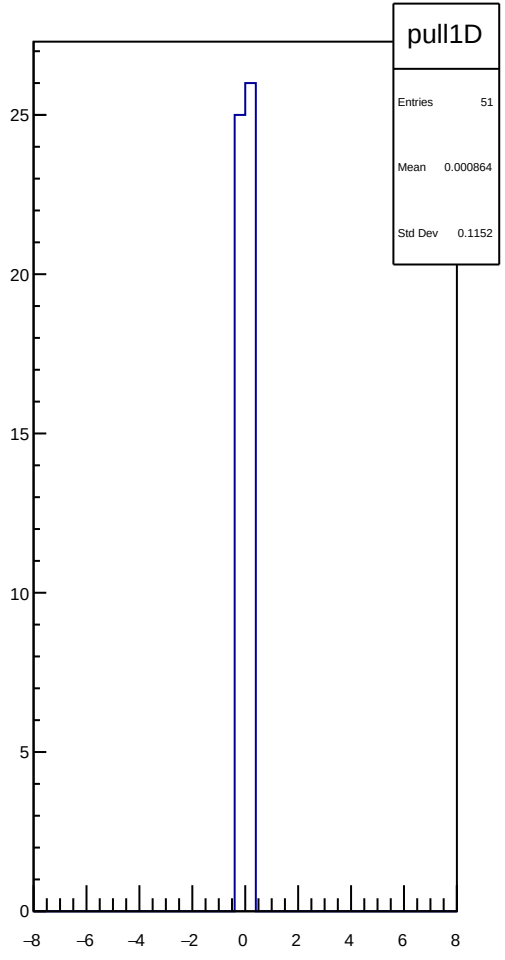

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 7.009 / 50
p0 −0.9605 ± 0.1564
pull
Entries 51
Mean 122.6
Std Dev 102.5

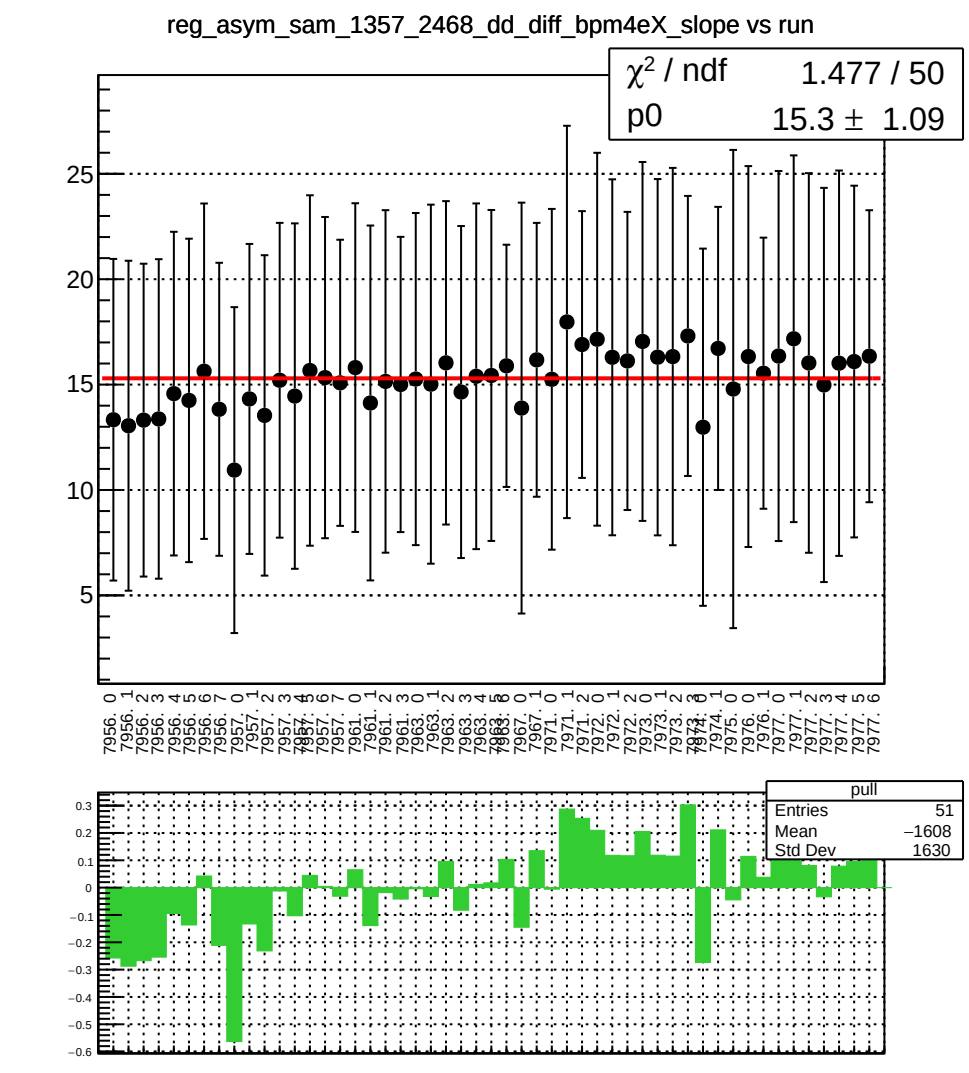

pull1D
Entries 51
Mean −0.01907
Std Dev 0.3702

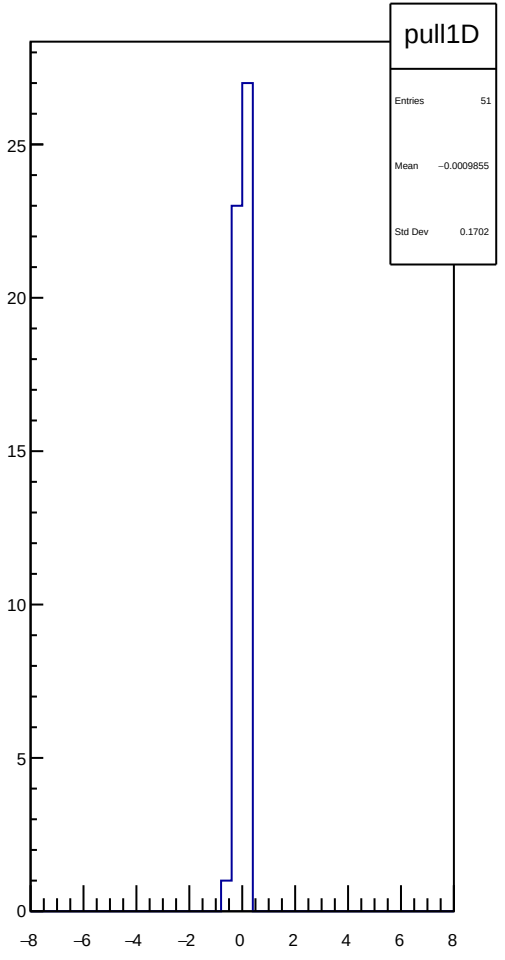

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 2.416 / 50
p0 12.13 ± 1.223
pull
Entries 51
Mean 48.57
Std Dev 39.99

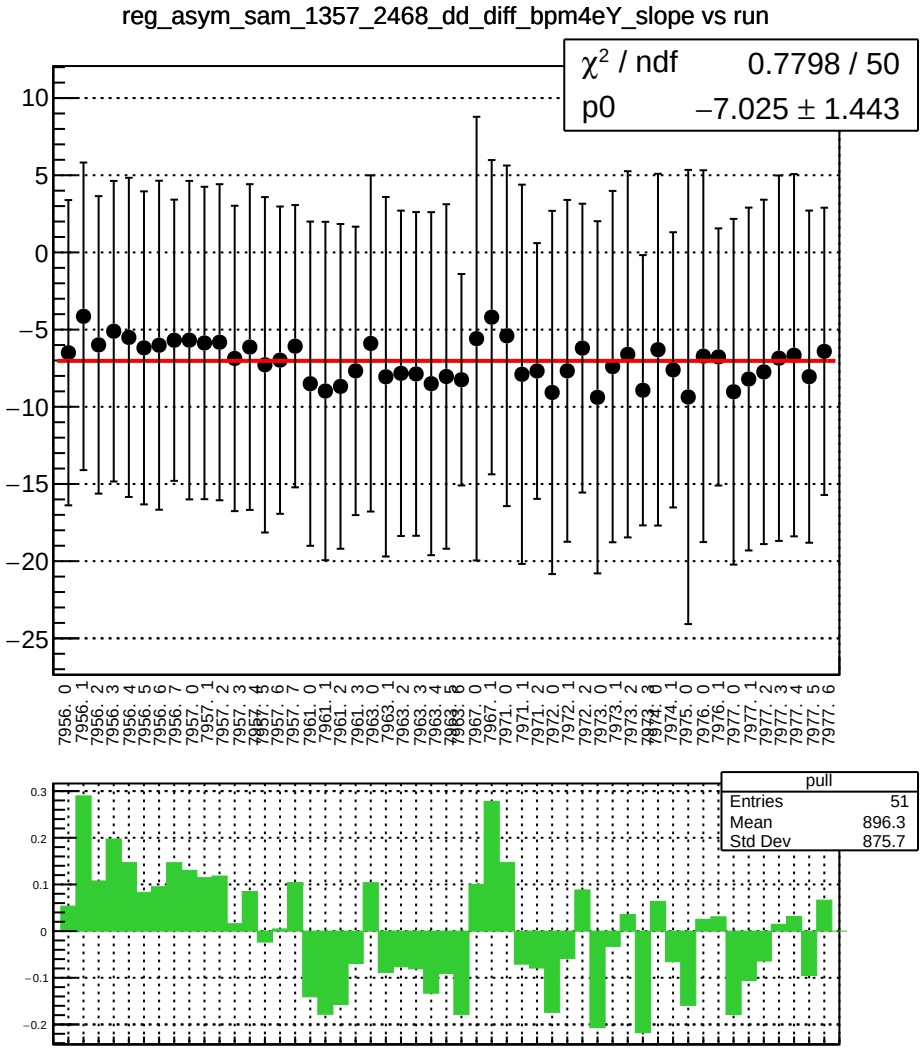

pull1D
Entries 51
Mean 0.00905
Std Dev 0.2175

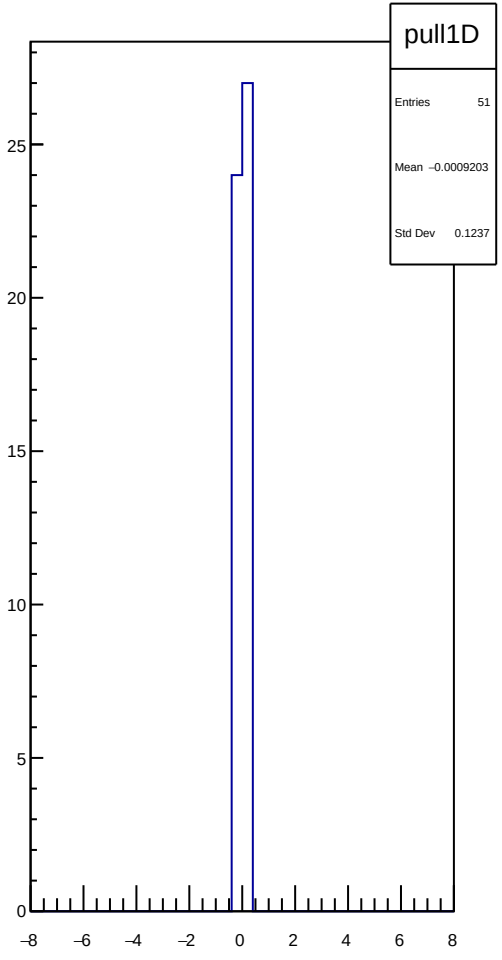

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6774 / 50
p0 1.551 ± 1.26
pull
Entries 51
Mean 776.6
Std Dev 755.3

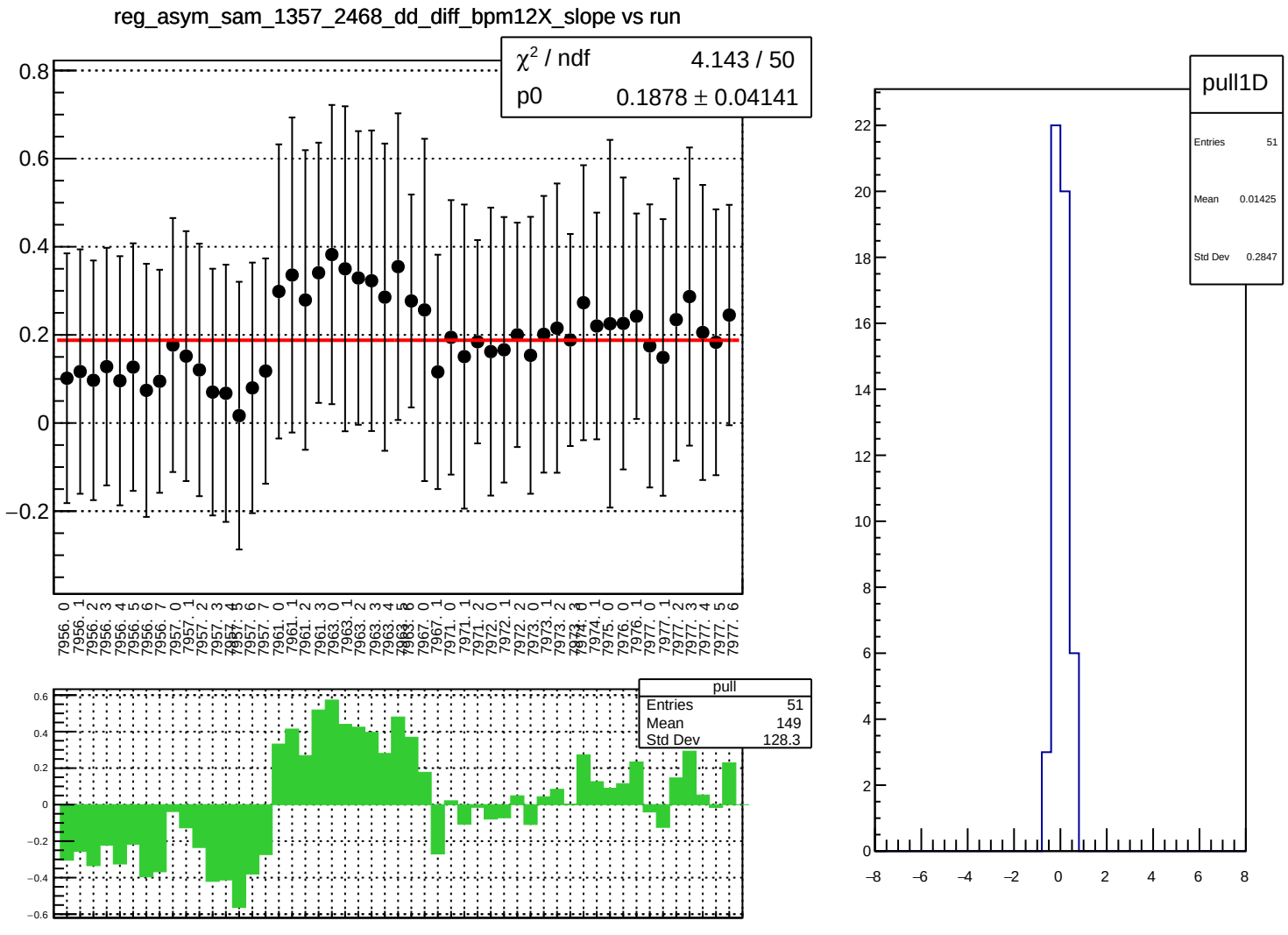

pull1D
Entries 51
Mean 0.000864
Std Dev 0.1152

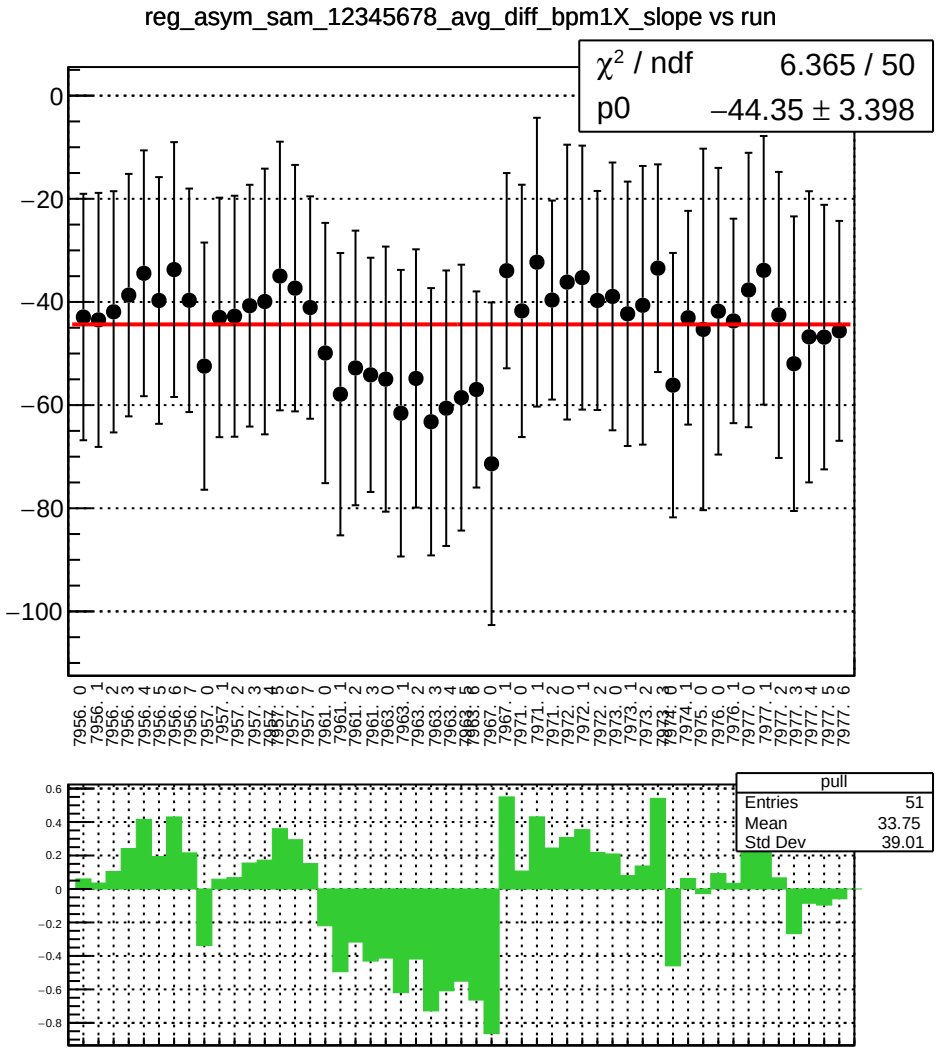

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.477 / 50
p0 15.3 ± 1.09
pull
Entries 51
Mean −1608
Std Dev 1630

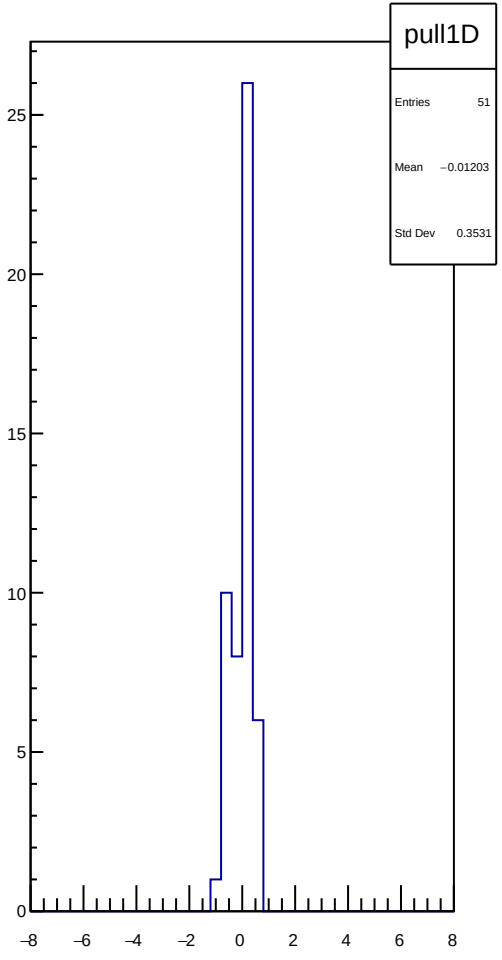

pull1D
Entries 51
Mean −0.0009855
Std Dev 0.1702

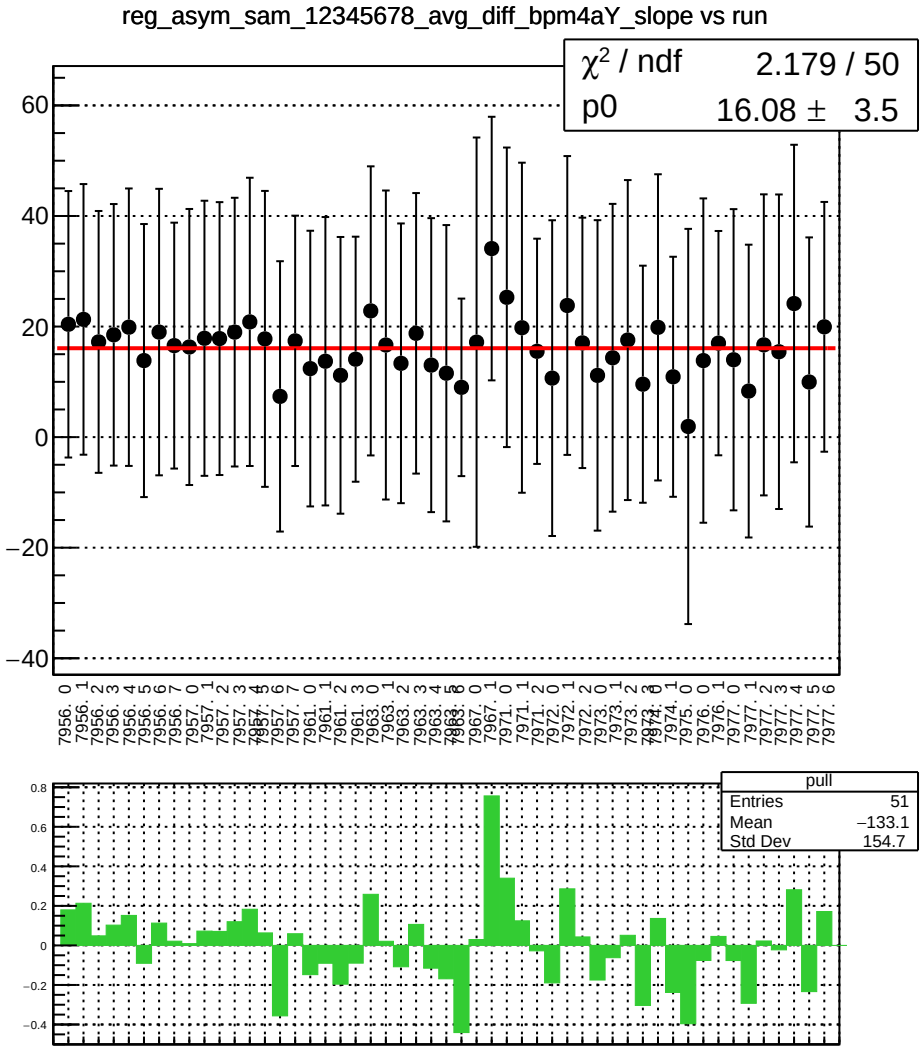

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7798 / 50
p0 −7.025 ± 1.443
pull
Entries 51
Mean 896.3
Std Dev 875.7

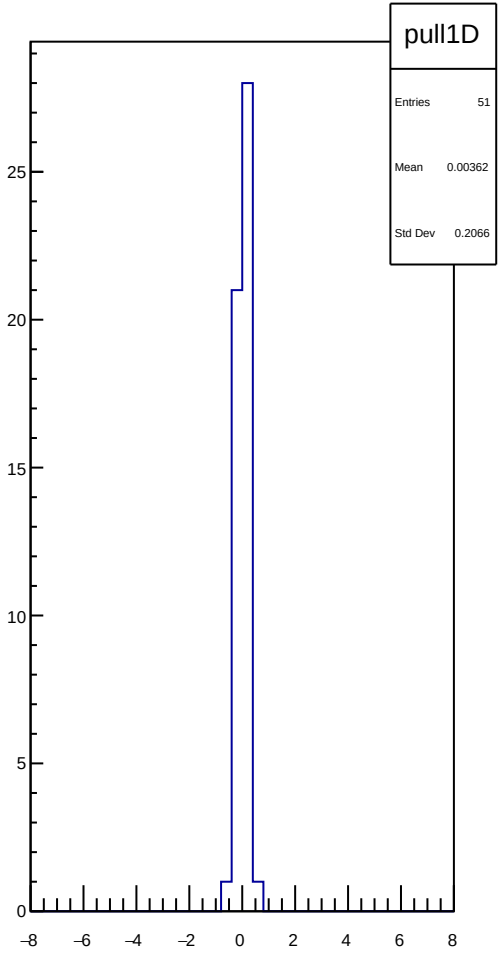

pull1D
Entries 51
Mean −0.0009203
Std Dev 0.1237

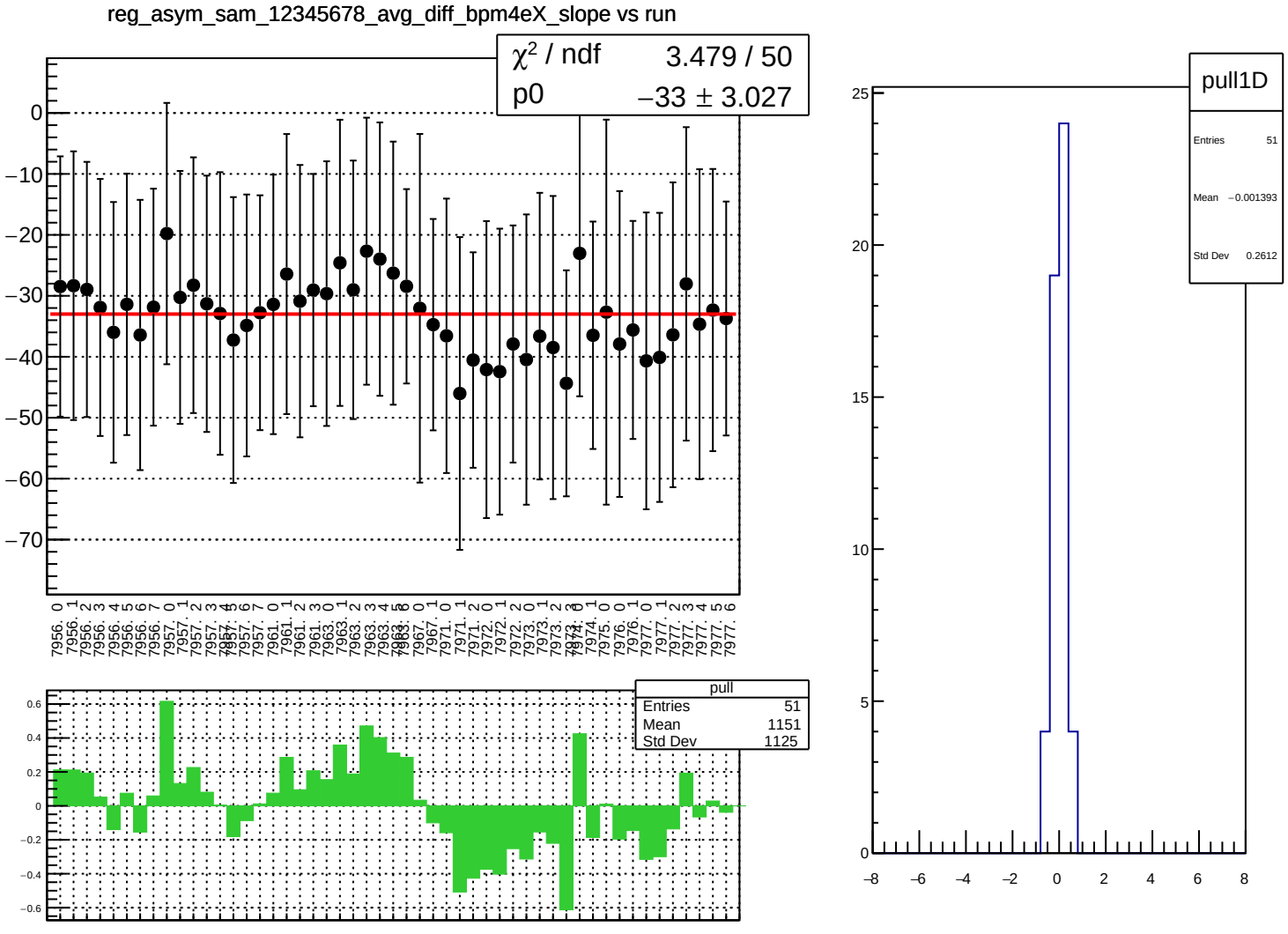

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.143 / 50
p0 0.1878 ± 0.04141
pull
Entries 51
Mean 149
Std Dev 128.3
pull1D
Entries 51
Mean 0.01425
Std Dev 0.2847

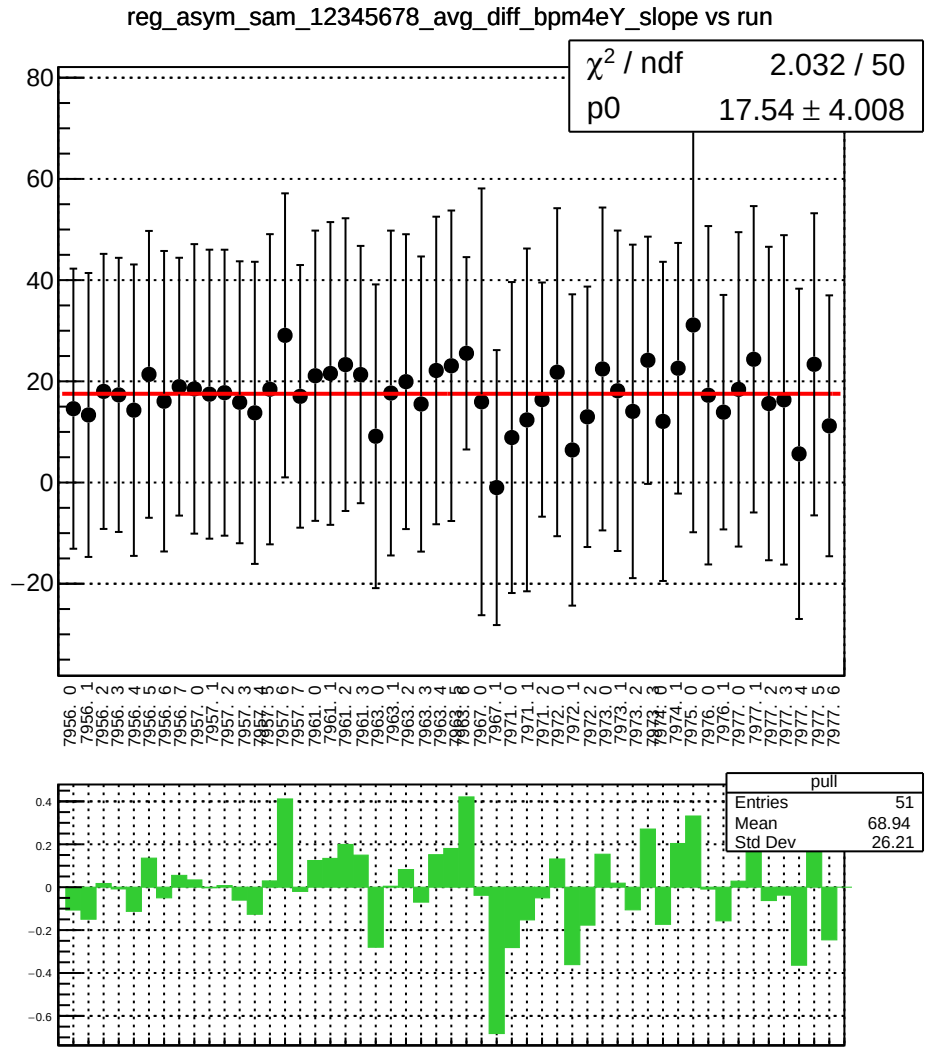

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 6.365 / 50
p0 −44.35 ± 3.398
pull
Entries 51
Mean 33.75
Std Dev 39.01

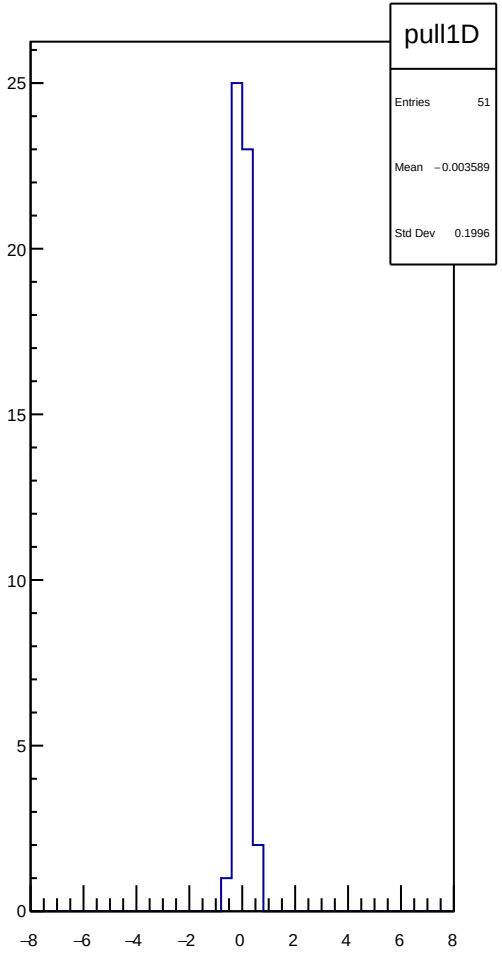

pull1D
Entries 51
Mean −0.01203
Std Dev 0.3531

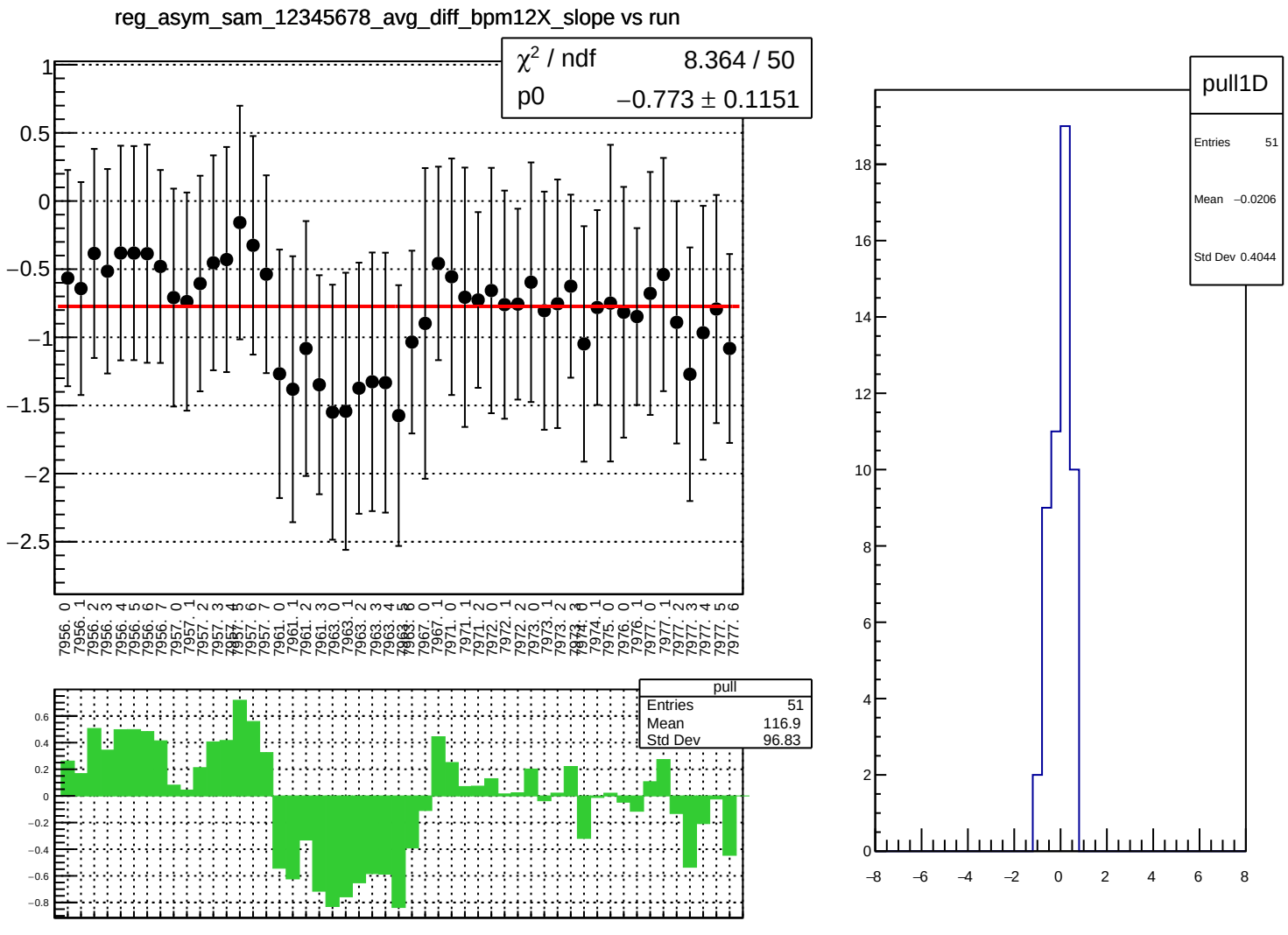

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.179 / 50
p0 16.08 ± 3.5
pull
Entries 51
Mean −133.1
Std Dev 154.7

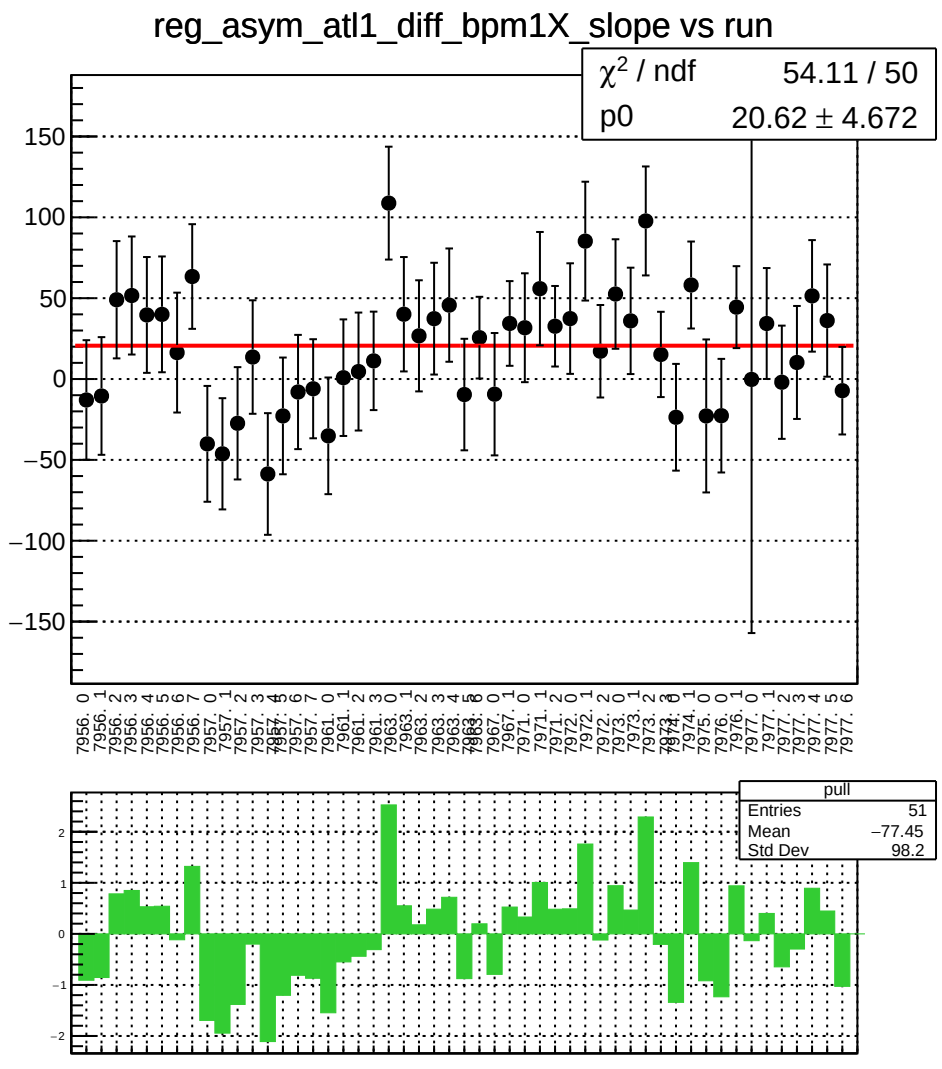

pull1D
Entries 51
Mean 0.00362
Std Dev 0.2066

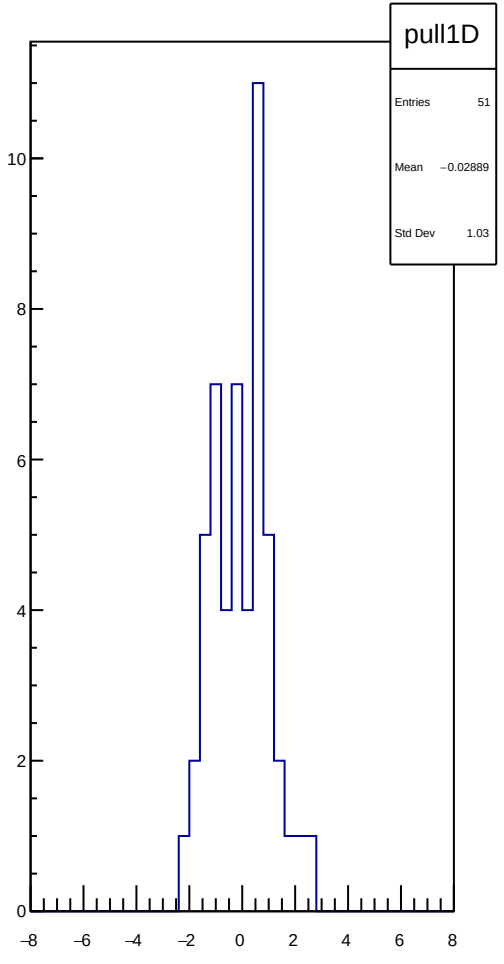

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.479 / 50
p0 −33 ± 3.027
pull
Entries 51
Mean 1151
Std Dev 1125
pull1D
Entries 51
Mean −0.001393
Std Dev 0.2612

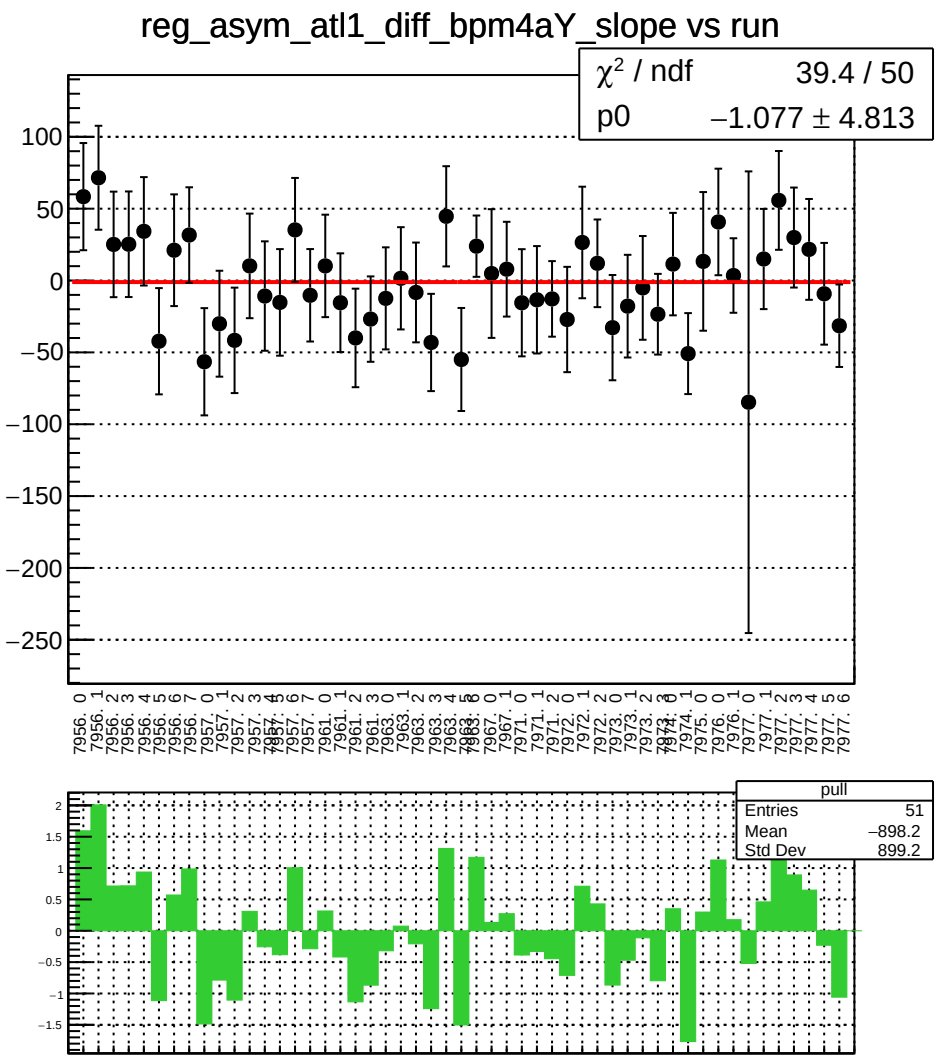

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.032 / 50
p0 17.54 ± 4.008
pull
Entries 51
Mean 68.94
Std Dev 26.21

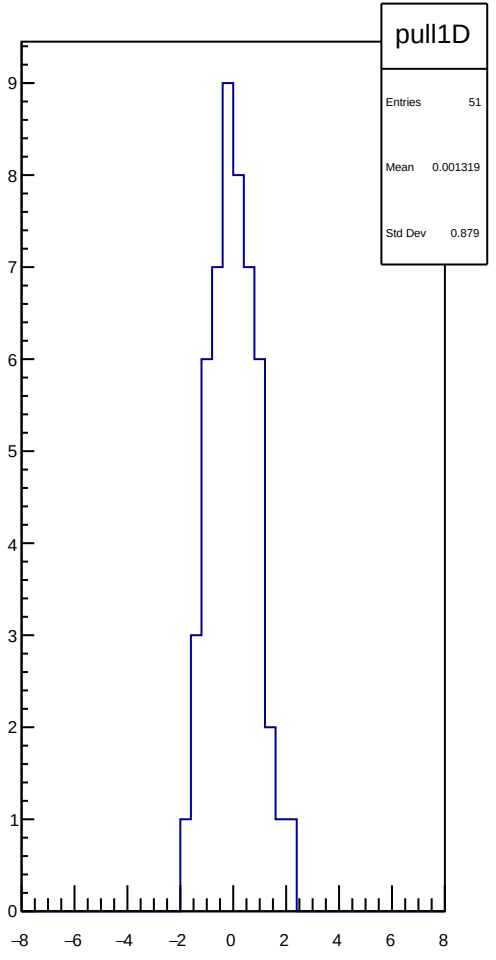

pull1D
Entries 51
Mean −0.003589
Std Dev 0.1996

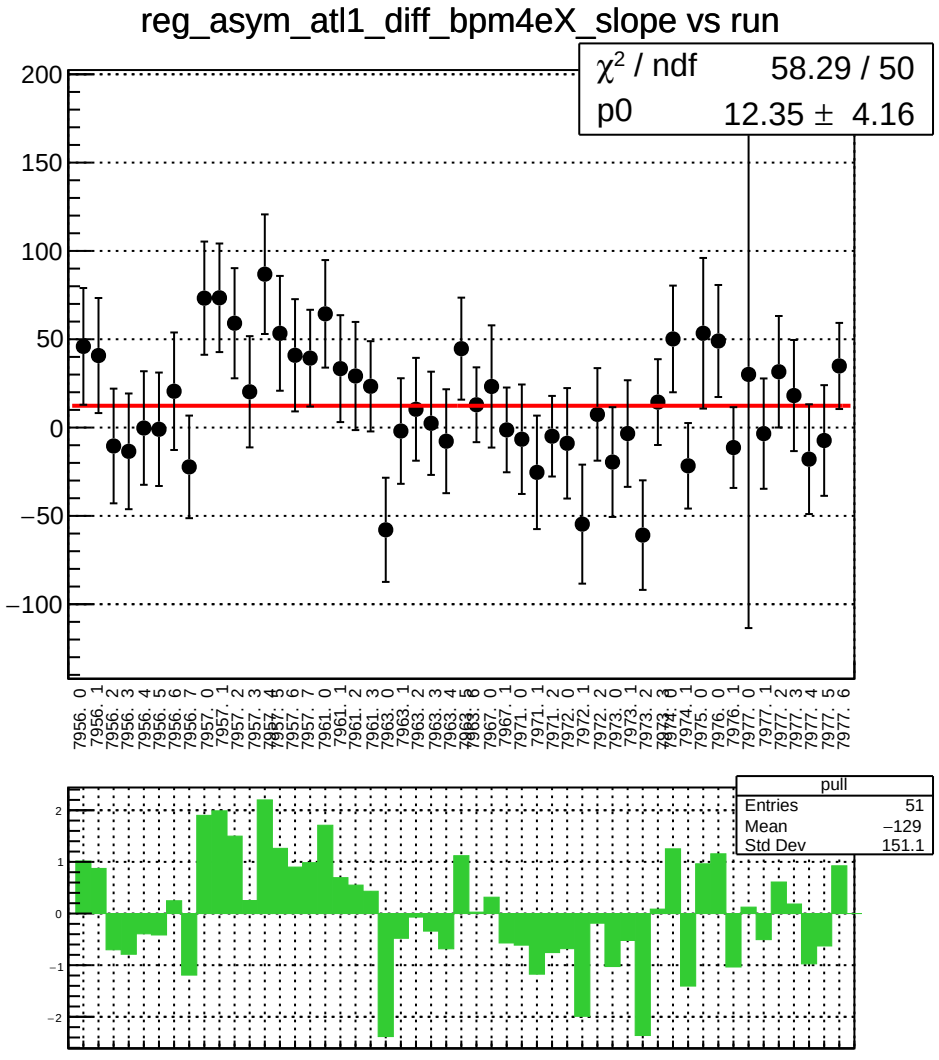

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 8.364 / 50
p0 −0.773 ± 0.1151
pull
Entries 51
Mean 116.9
Std Dev 96.83
pull1D
Entries 51
Mean −0.0206
Std Dev 0.4044

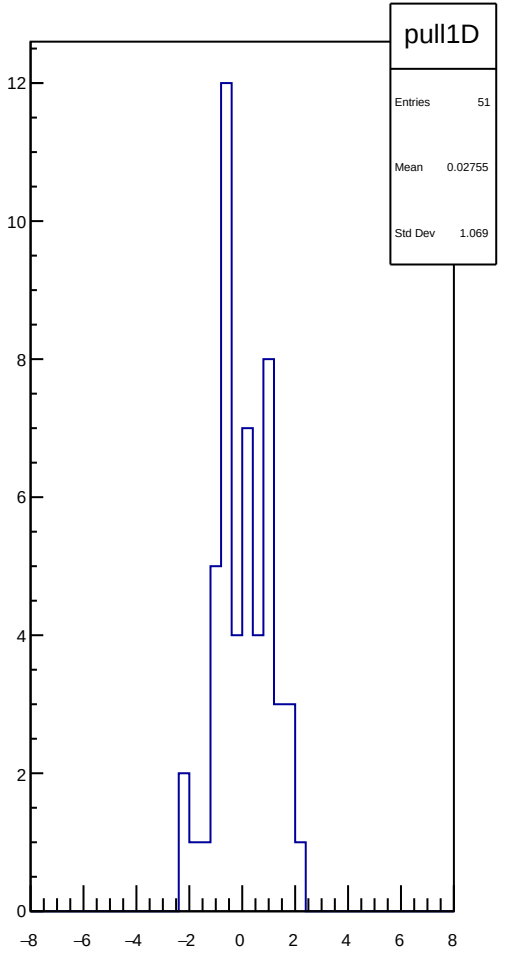

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 54.11 / 50
p0 20.62 ± 4.672
150
100
50
0
−50
−100
−150
pull
Entries 51
Mean −77.45
Std Dev 98.2
2
1
0
−1
−2

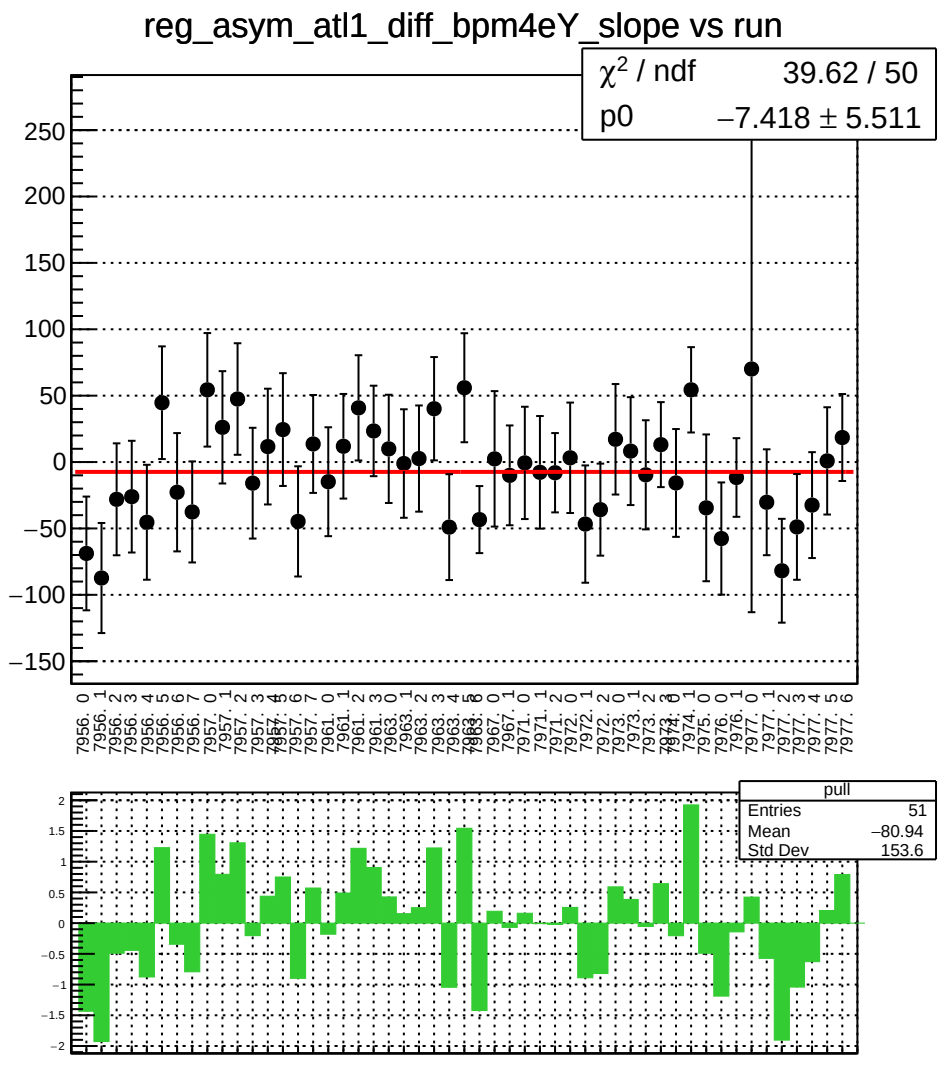

pull1D
Entries 51
Mean −0.02889
Std Dev 1.03
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

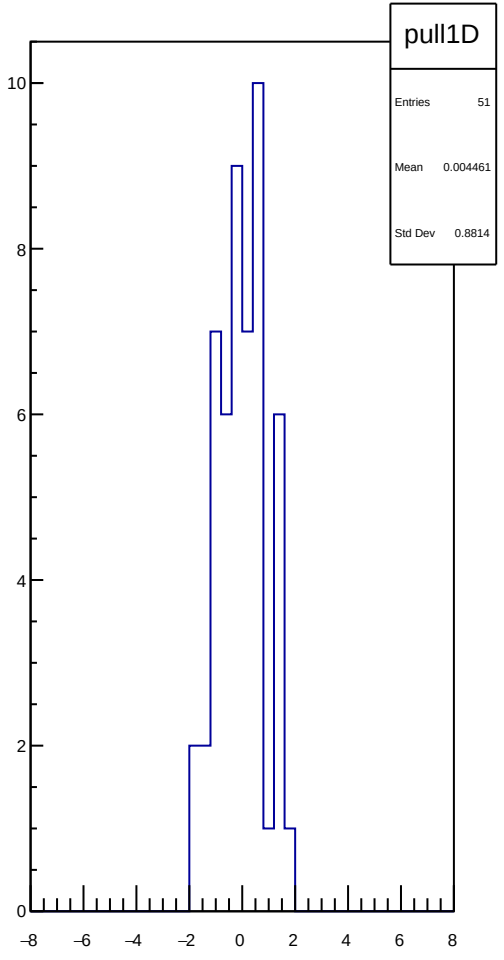

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 39.4 / 50
p0 −1.077 ± 4.813
pull
Entries 51
Mean −898.2
Std Dev 899.2

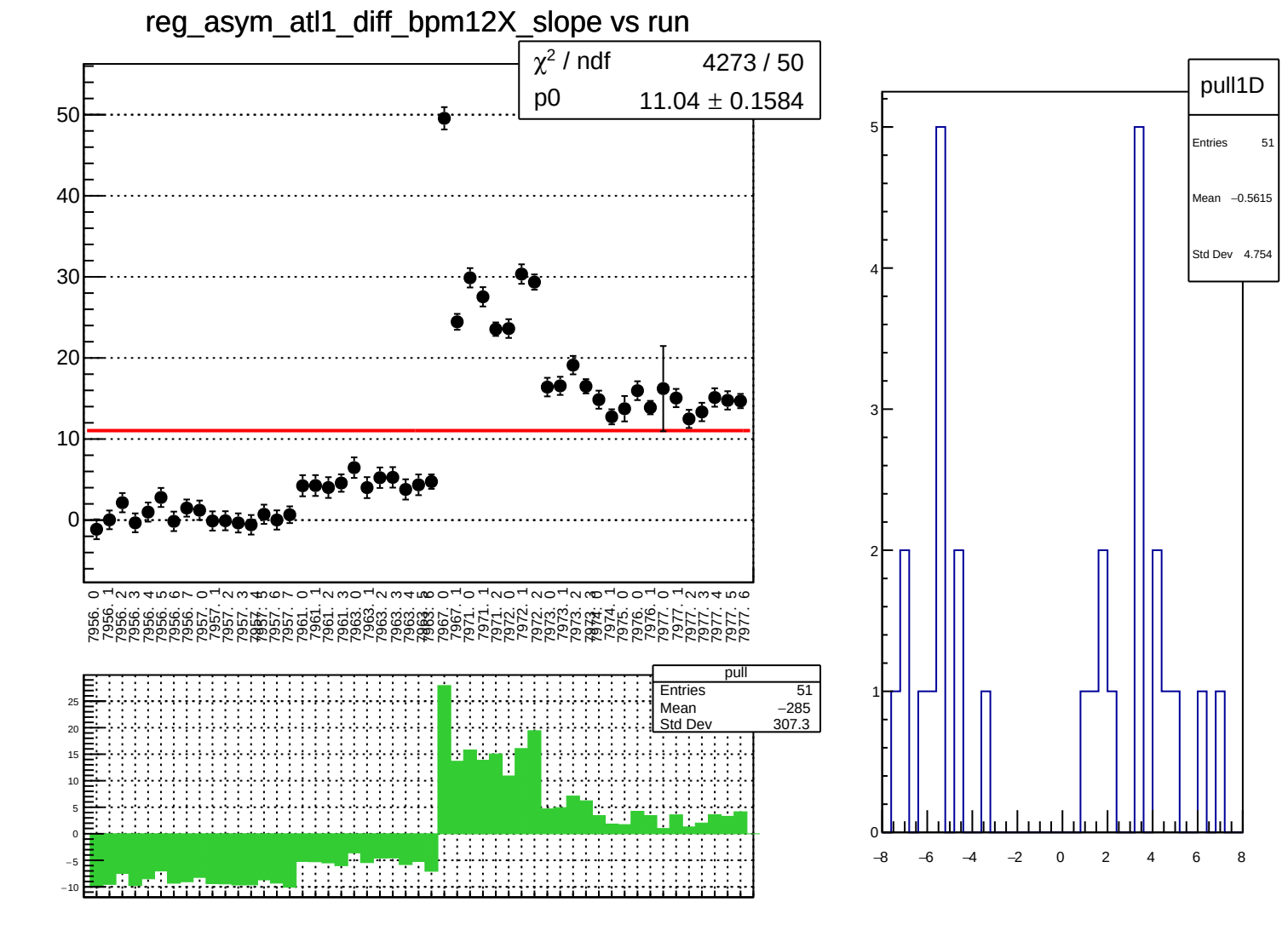

pull1D
Entries 51
Mean 0.001319
Std Dev 0.879

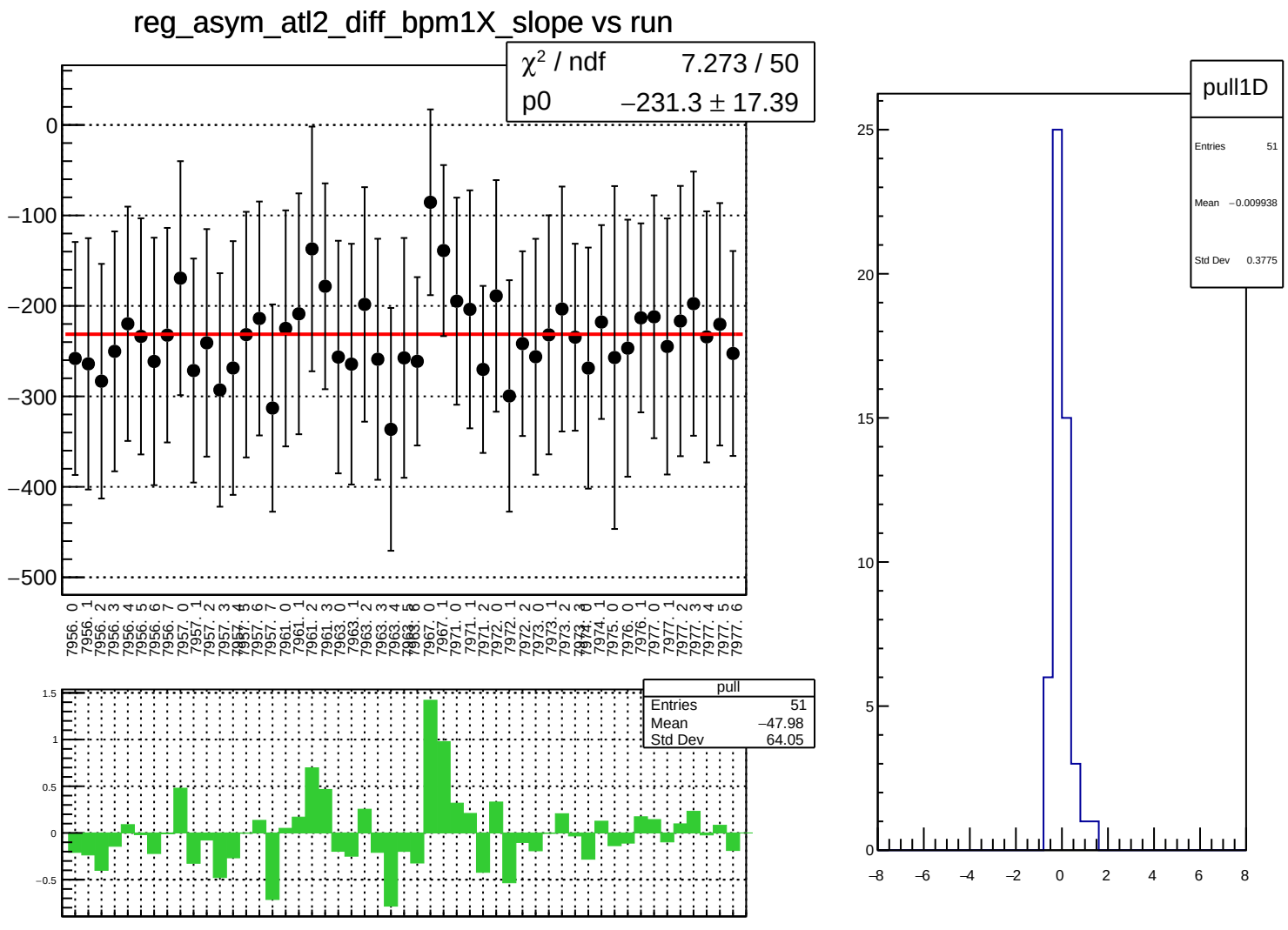

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 58.29 / 50
p0 12.35 ± 4.16
pull
Entries 51
Mean −129
Std Dev 151.1

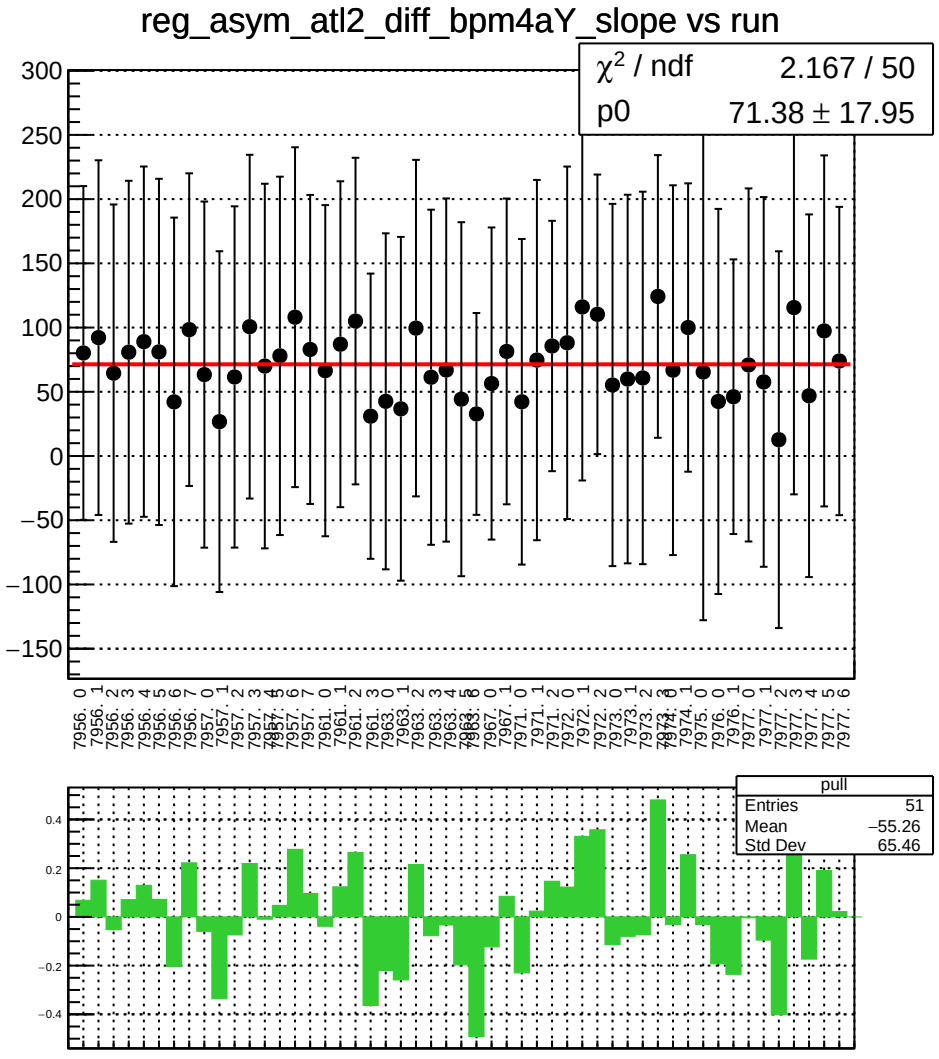

pull1D
Entries 51
Mean 0.02755
Std Dev 1.069

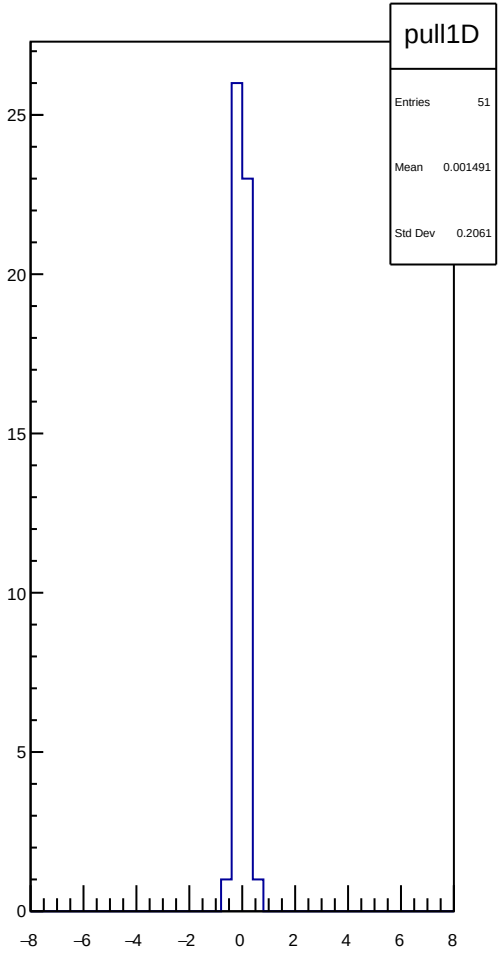

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 39.62 / 50
p0 −7.418 ± 5.511
pull
Entries 51
Mean −80.94
Std Dev 153.6

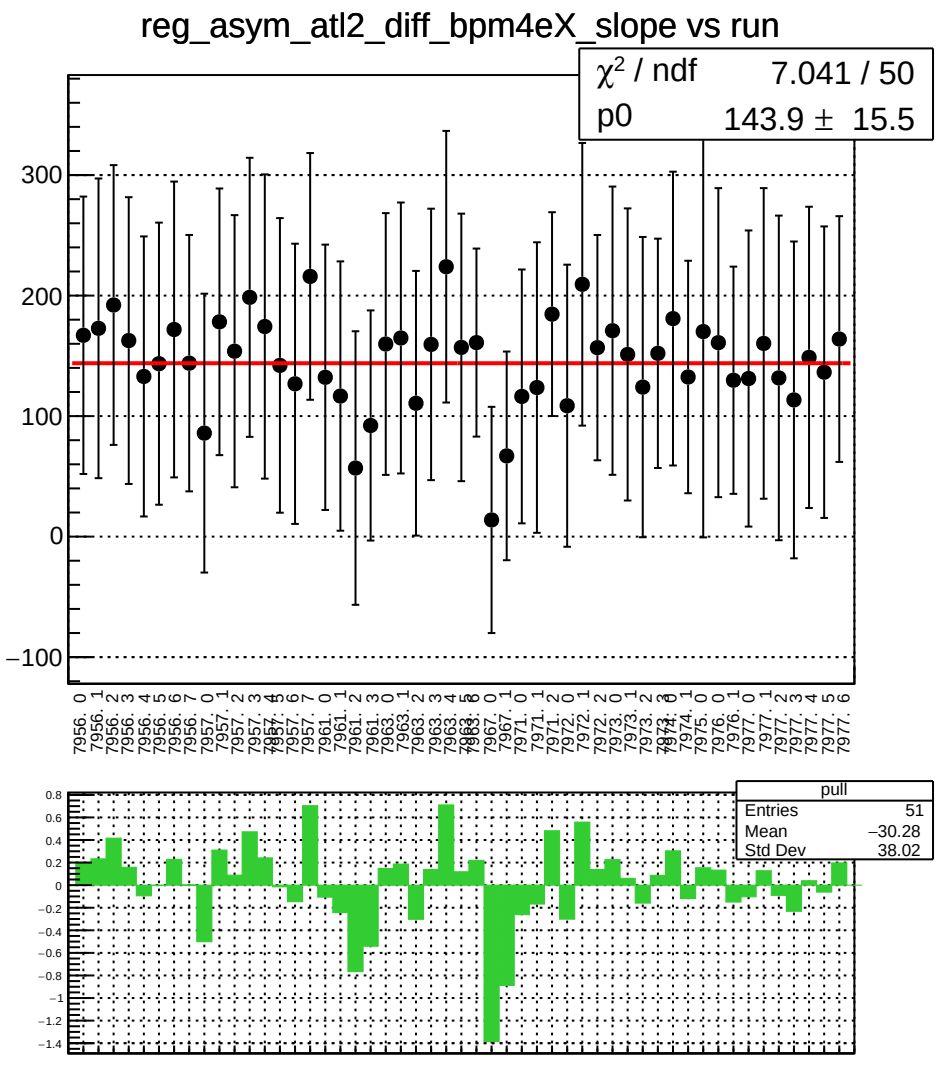

pull1D
Entries 51
Mean 0.004461
Std Dev 0.8814

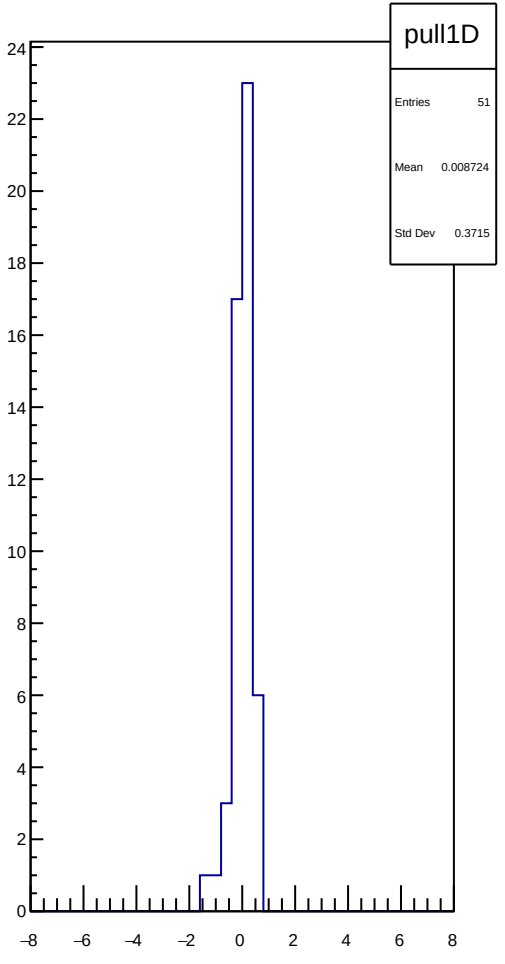

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 4273 / 50
p0 11.04 ± 0.1584
pull
Entries 51
Mean −285
Std Dev 307.3
pull1D
Entries 51
Mean −0.5615
Std Dev 4.754

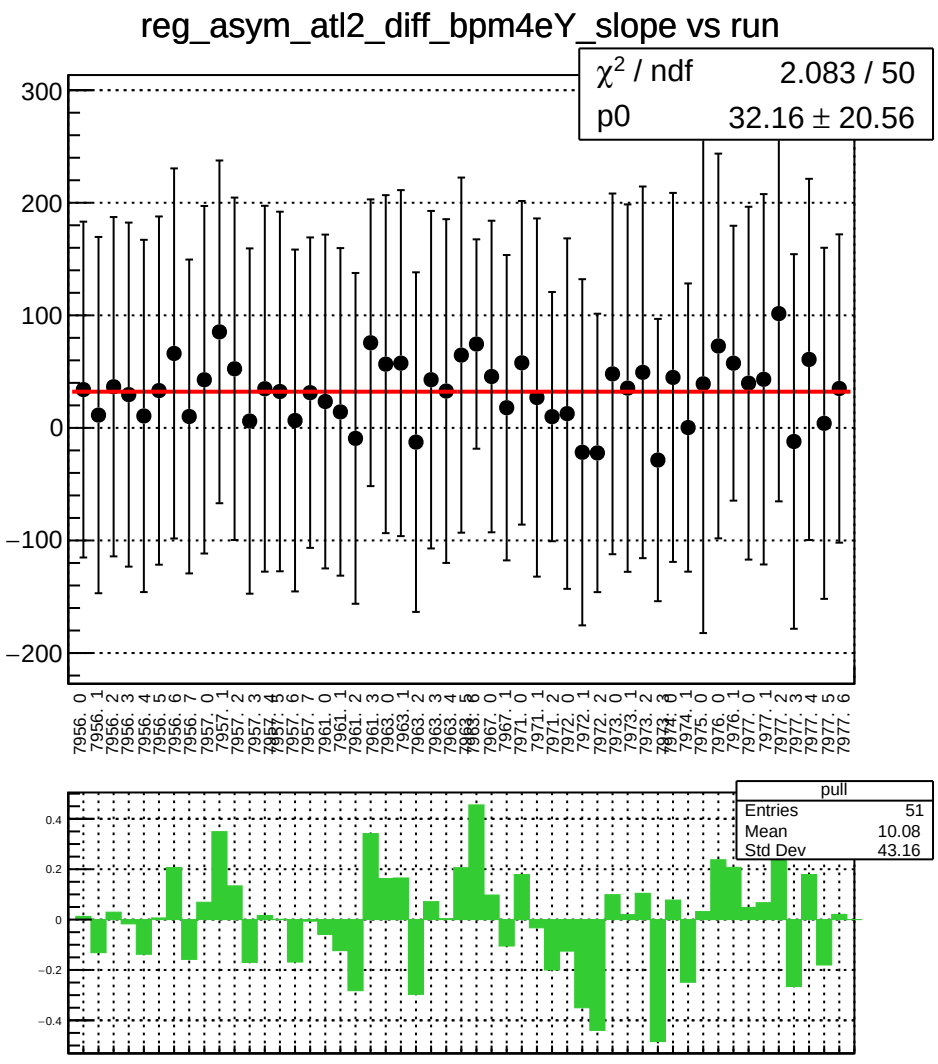

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 7.273 / 50
p0 −231.3 ± 17.39
pull
Entries 51
Mean −47.98
Std Dev 64.05
pull1D
Entries 51
Mean −0.009938
Std Dev 0.3775

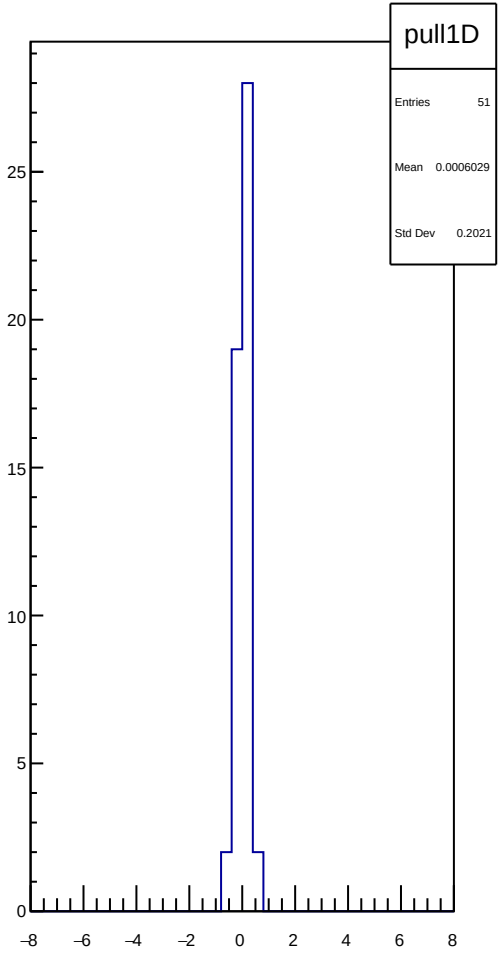

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 2.167 / 50
p0 71.38 ± 17.95
pull
Entries 51
Mean −55.26
Std Dev 65.46

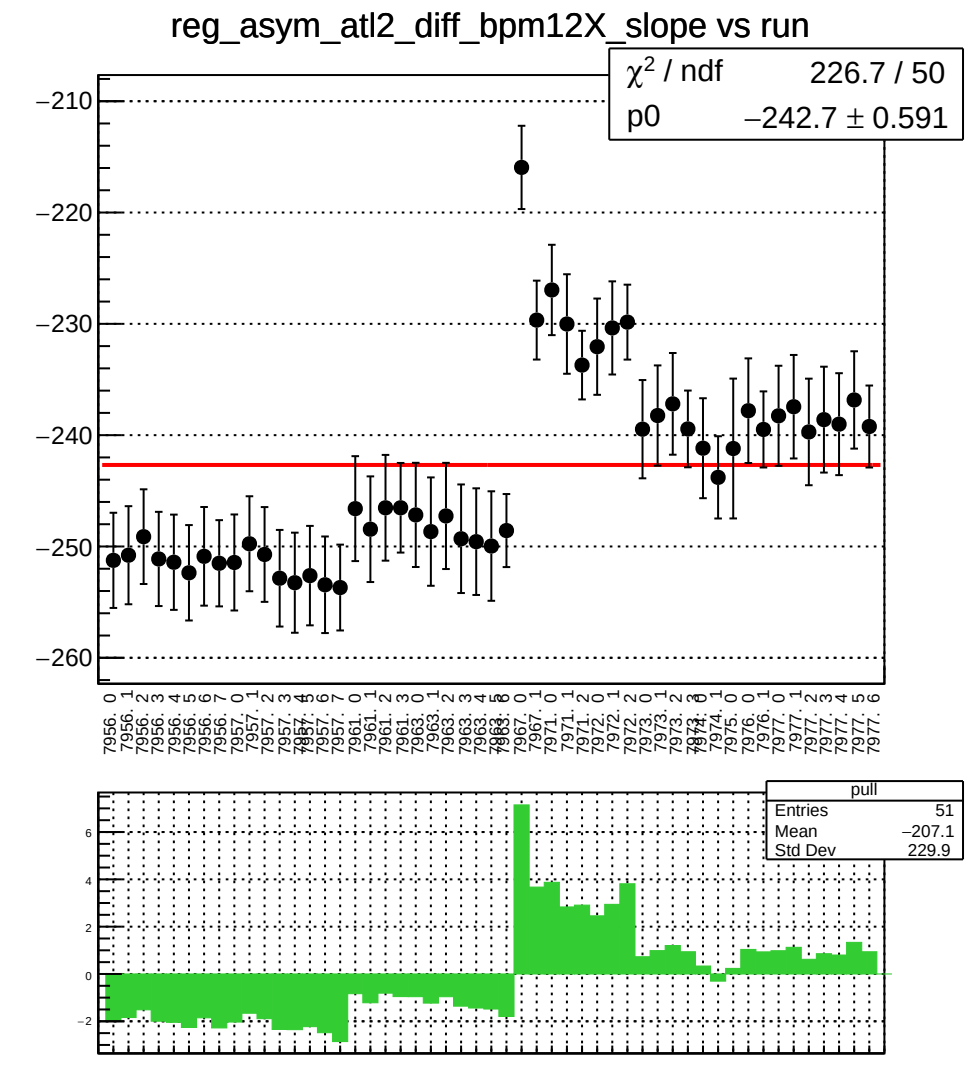

pull1D
Entries 51
Mean 0.001491
Std Dev 0.2061

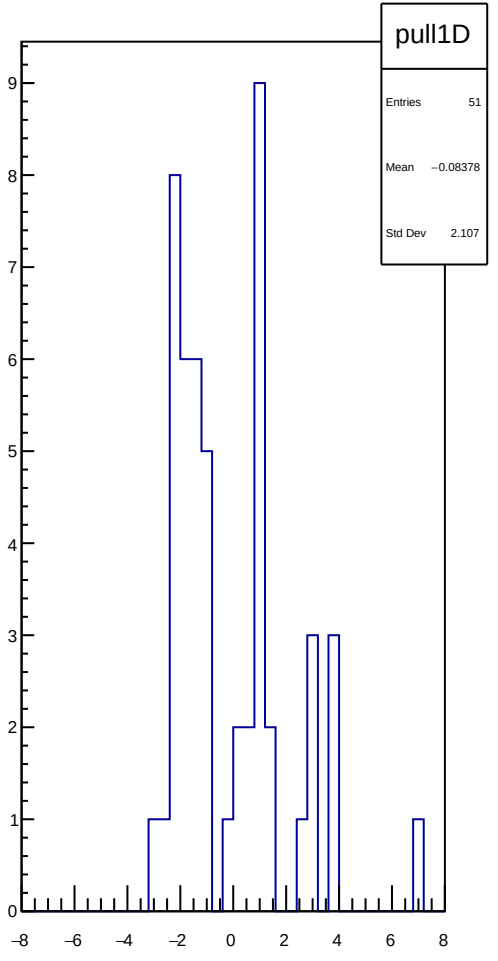

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 7.041 / 50
p0 143.9 ± 15.5
300
200
100
0
−100
pull
Entries 51
Mean −30.28
Std Dev 38.02
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

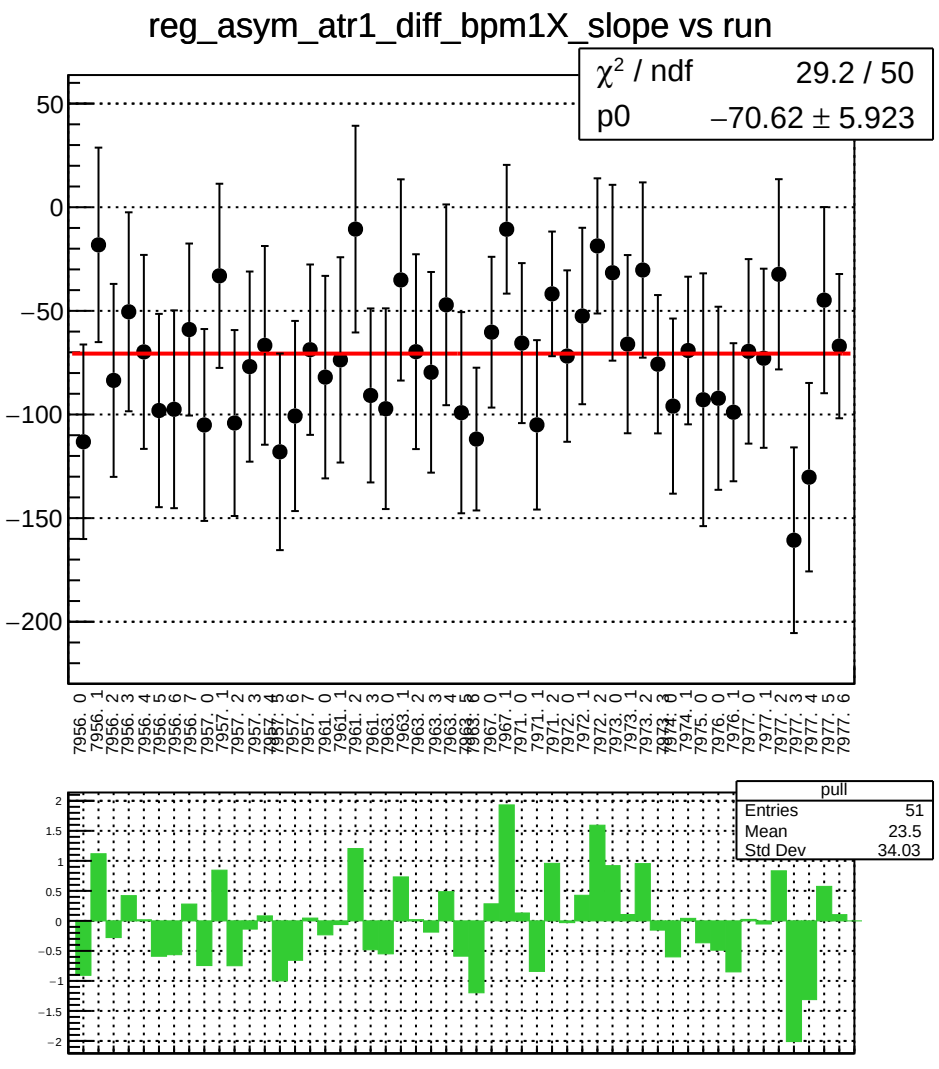

pull1D
Entries 51
Mean 0.008724
Std Dev 0.3715
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

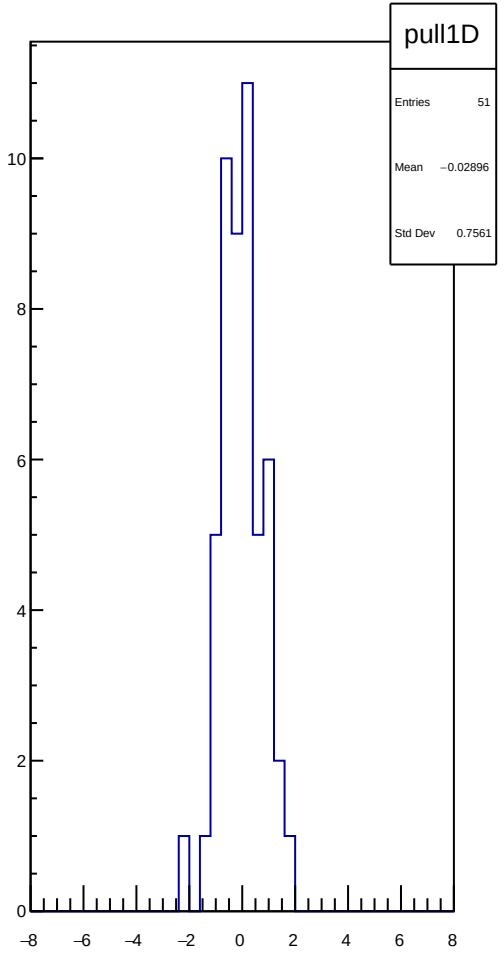

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 2.083 / 50
p0 32.16 ± 20.56
pull
Entries 51
Mean 10.08
Std Dev 43.16

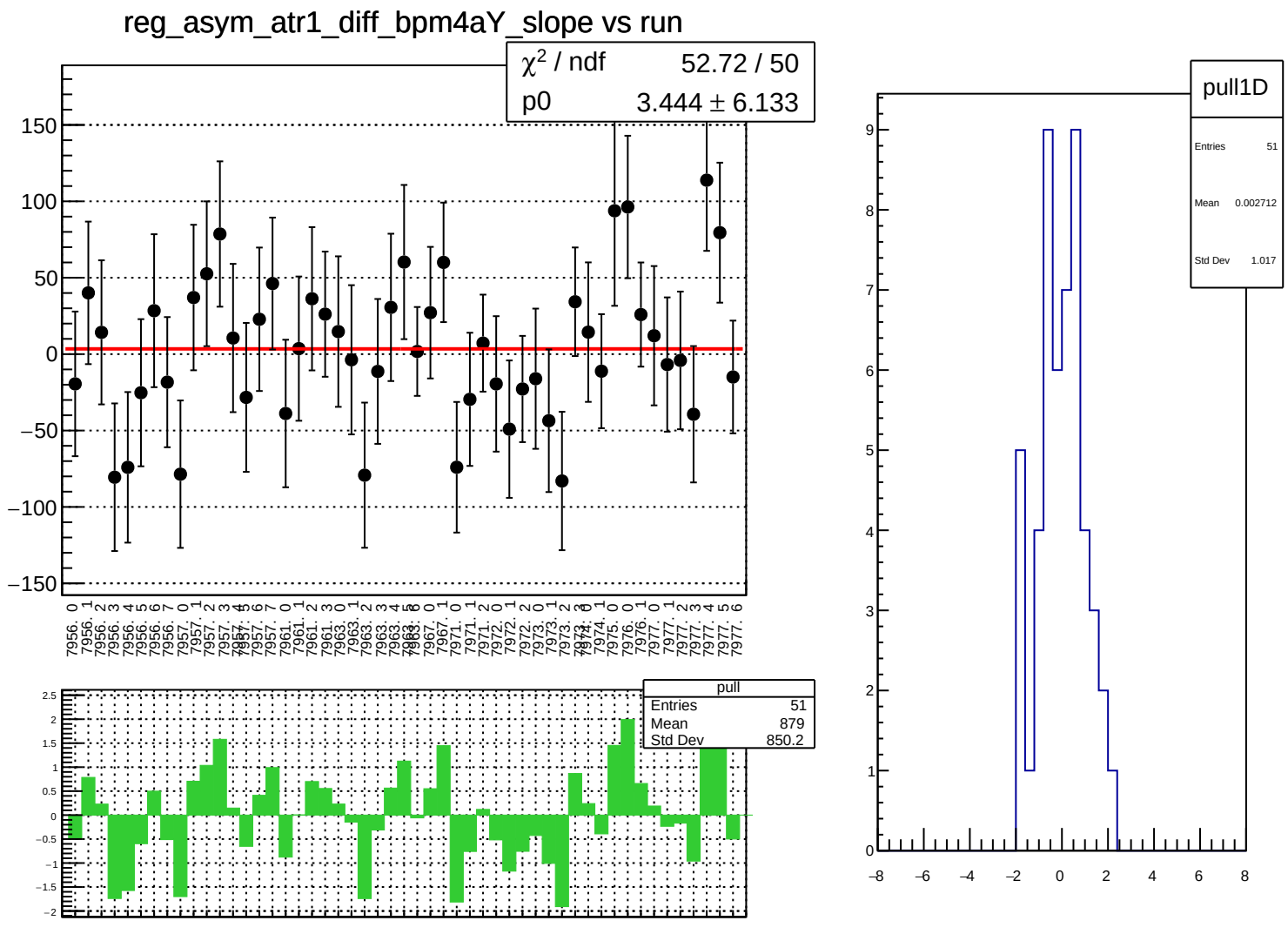

pull1D
Entries 51
Mean 0.0006029
Std Dev 0.2021

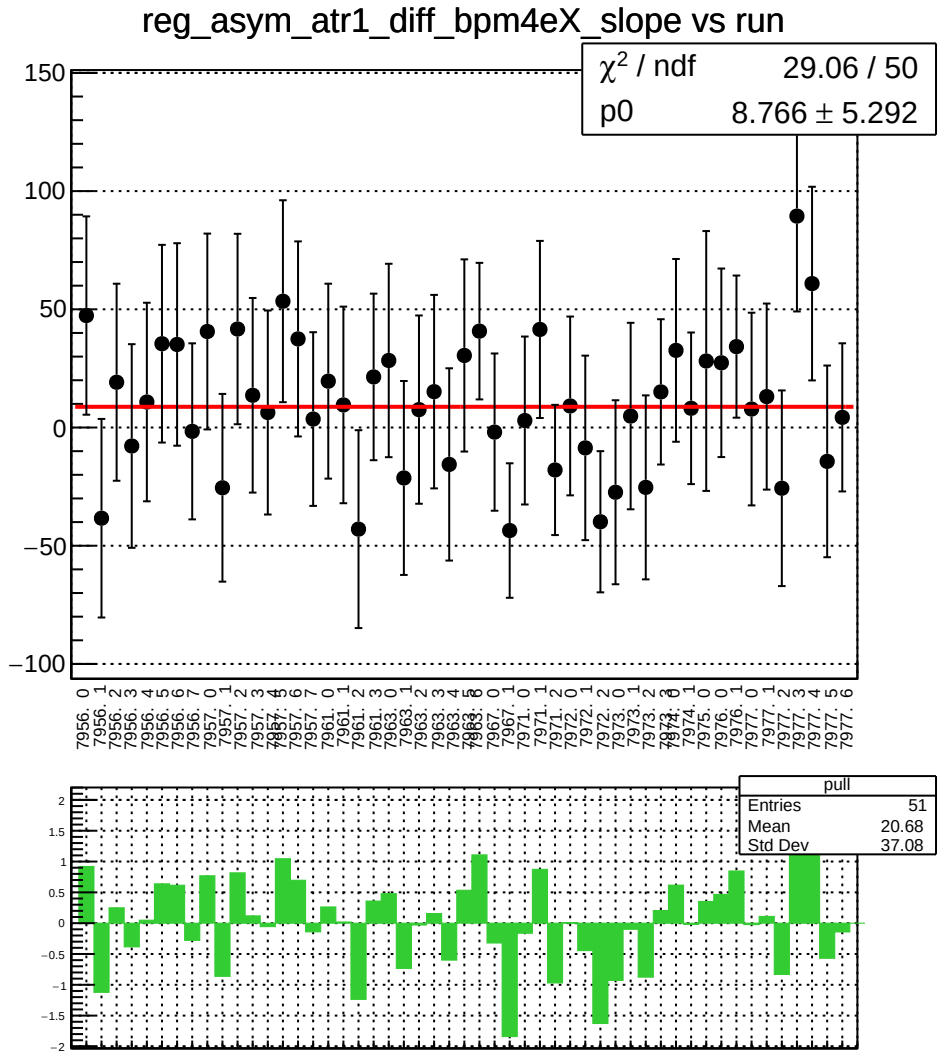

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 226.7 / 50
p0 −242.7 ± 0.591
−210
−220
−230
−240
−250
−260
pull
Entries 51
Mean −207.1
Std Dev 229.9
6
4
2
0
−2

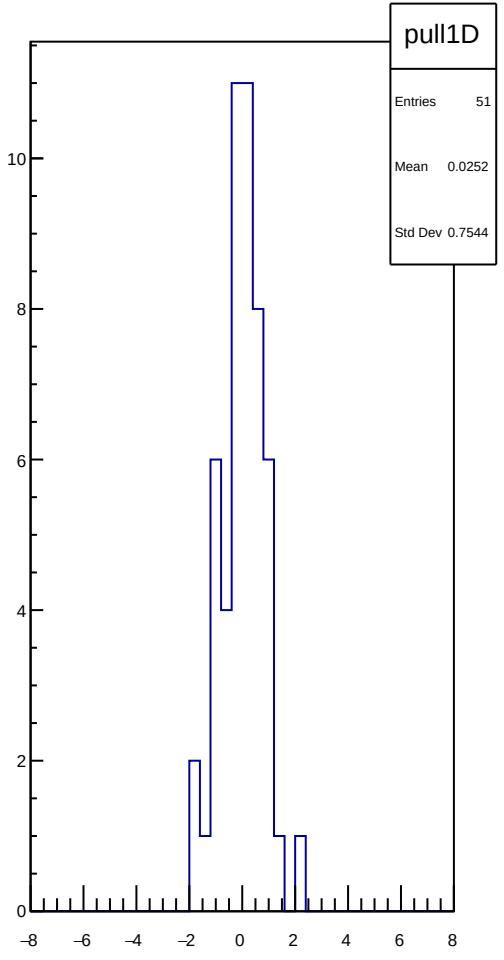

pull1D
Entries 51
Mean −0.08378
Std Dev 2.107
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

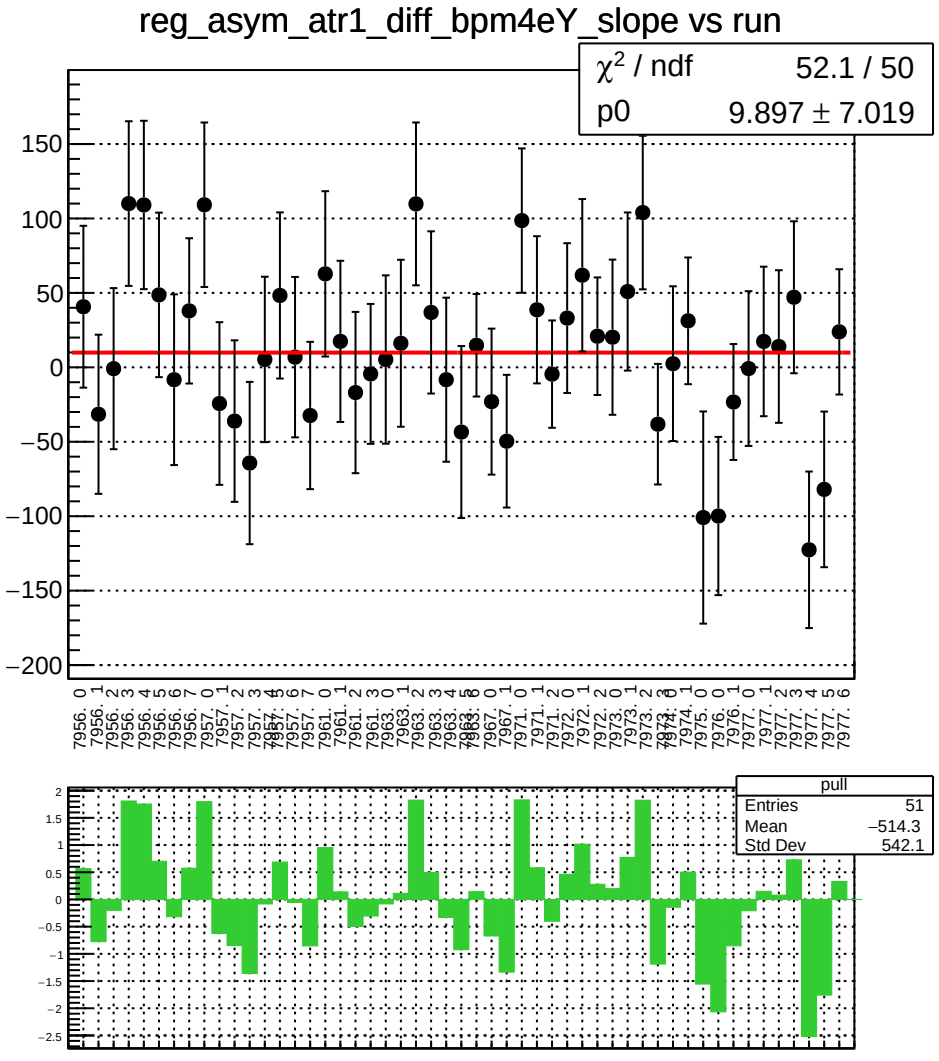

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 29.2 / 50
p0 −70.62 ± 5.923
pull
Entries 51
Mean 23.5
Std Dev 34.03

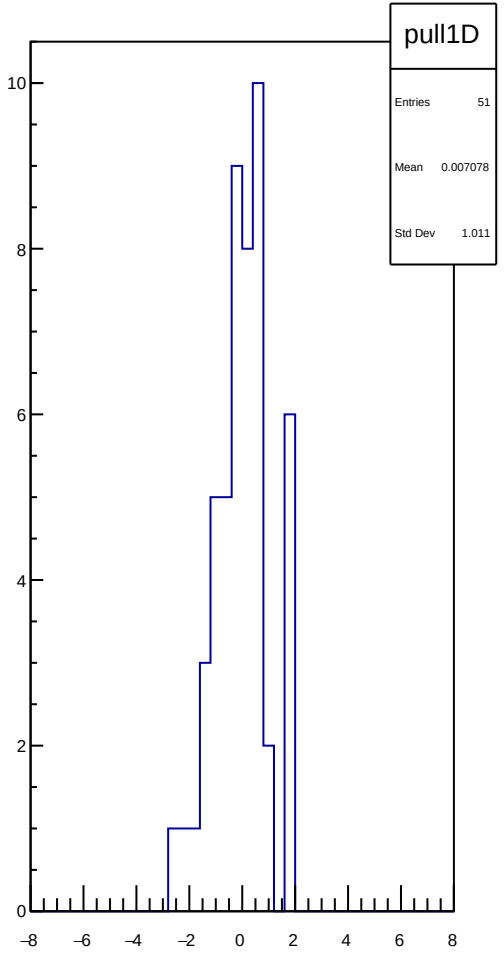

pull1D
Entries 51
Mean −0.02896
Std Dev 0.7561

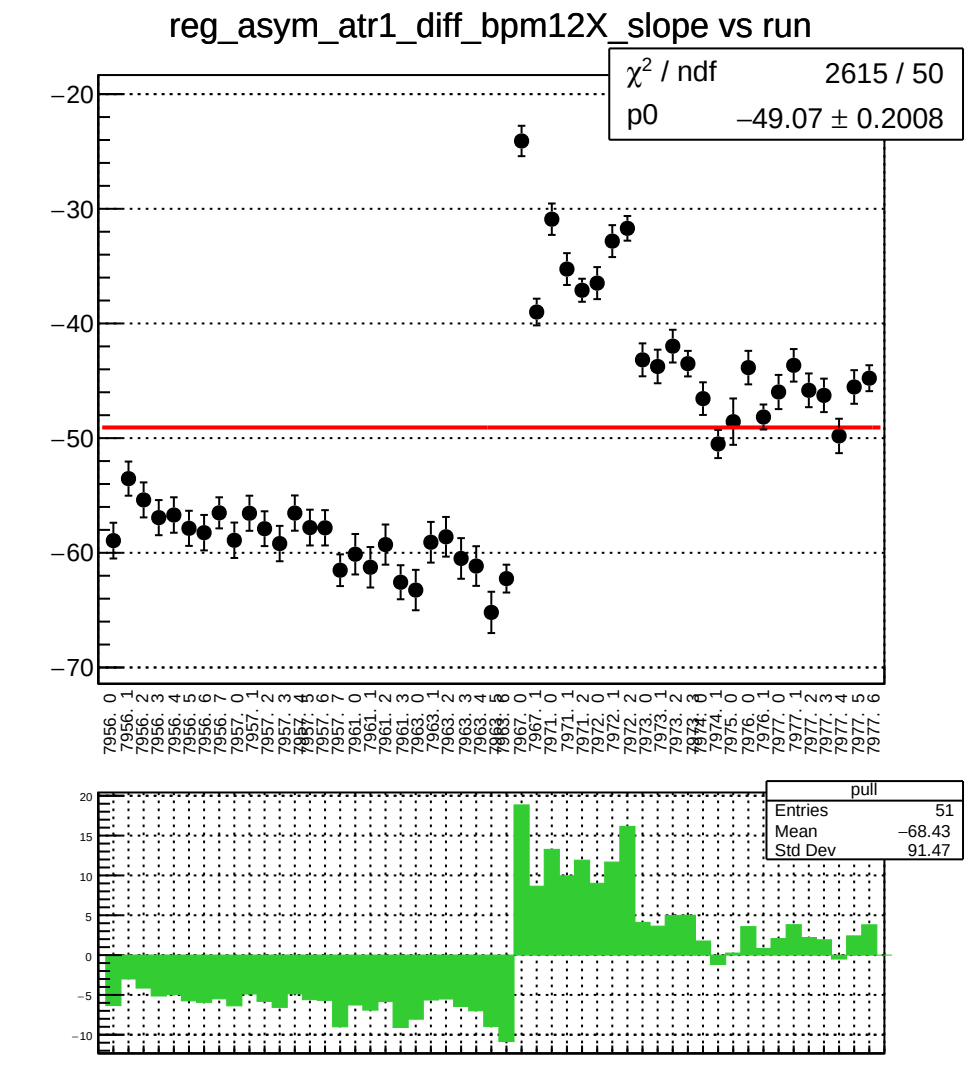

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 52.72 / 50
p0 3.444 ± 6.133
pull
Entries 51
Mean 879
Std Dev 850.2
pull1D
Entries 51
Mean 0.002712
Std Dev 1.017

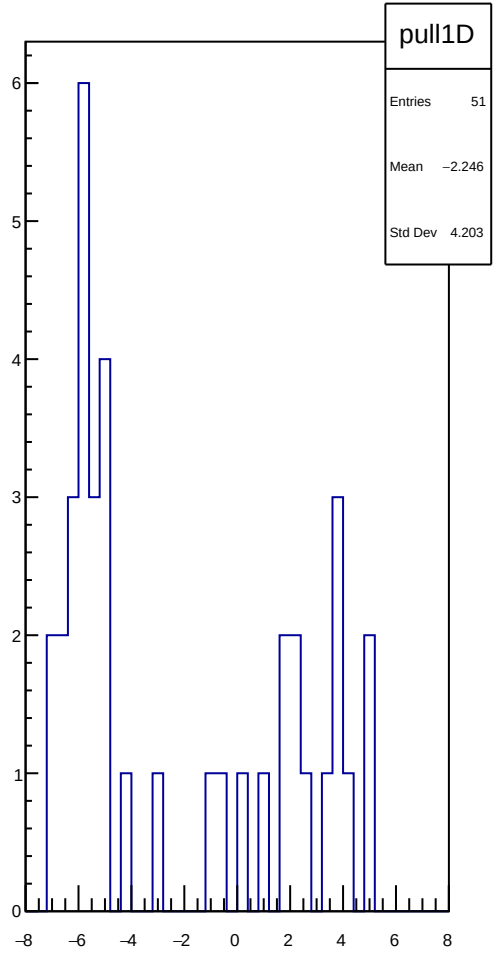

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 29.06 / 50
p0 8.766 ± 5.292
pull
Entries 51
Mean 20.68
Std Dev 37.08

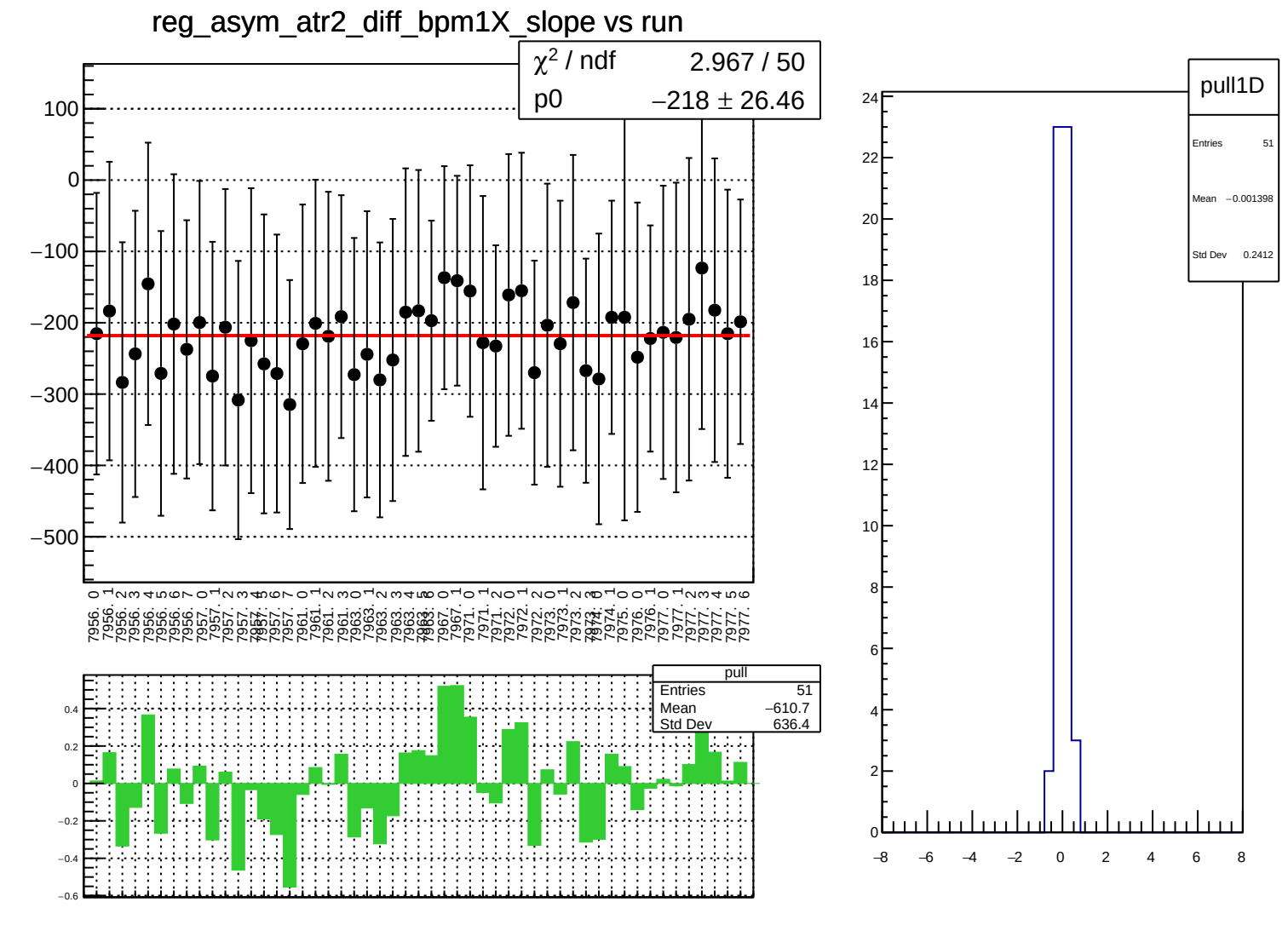

pull1D
Entries 51
Mean 0.0252
Std Dev 0.7544

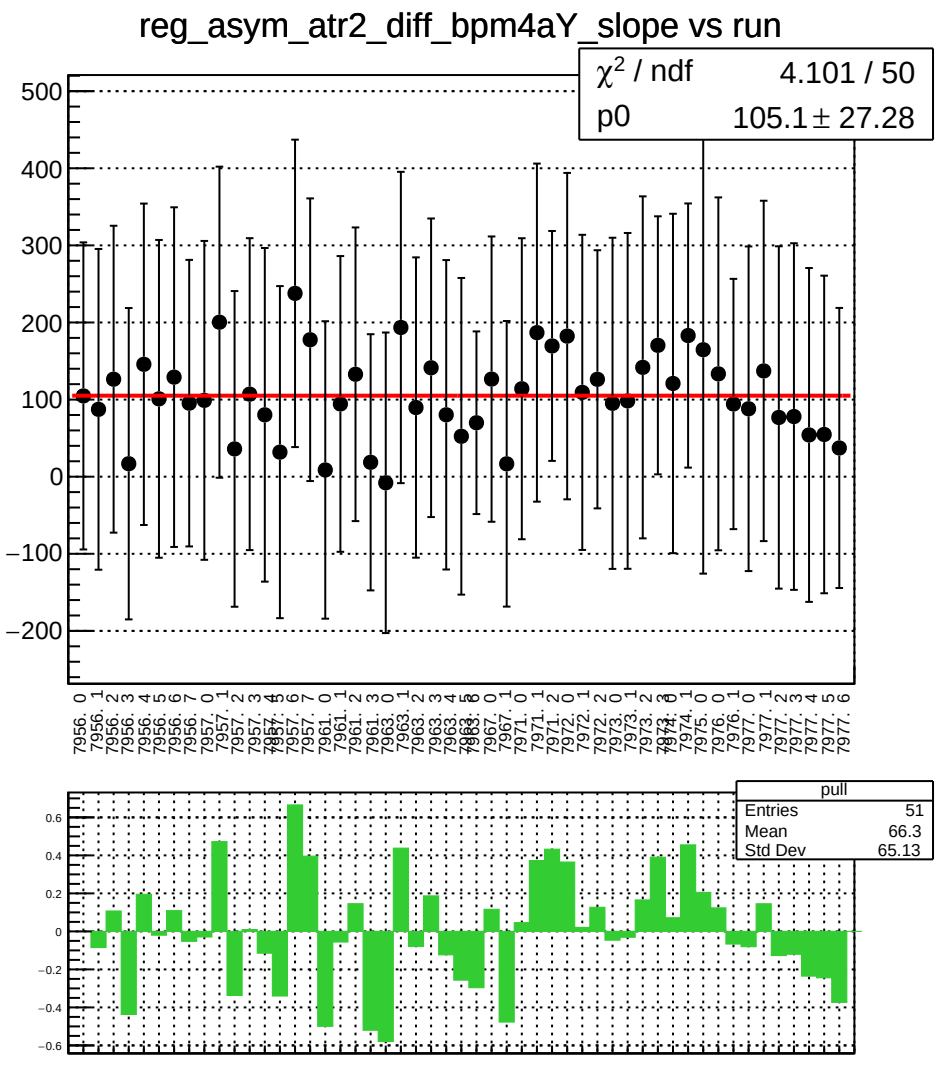

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 52.1 / 50
p0 9.897 ± 7.019
pull
Entries 51
Mean −514.3
Std Dev 542.1

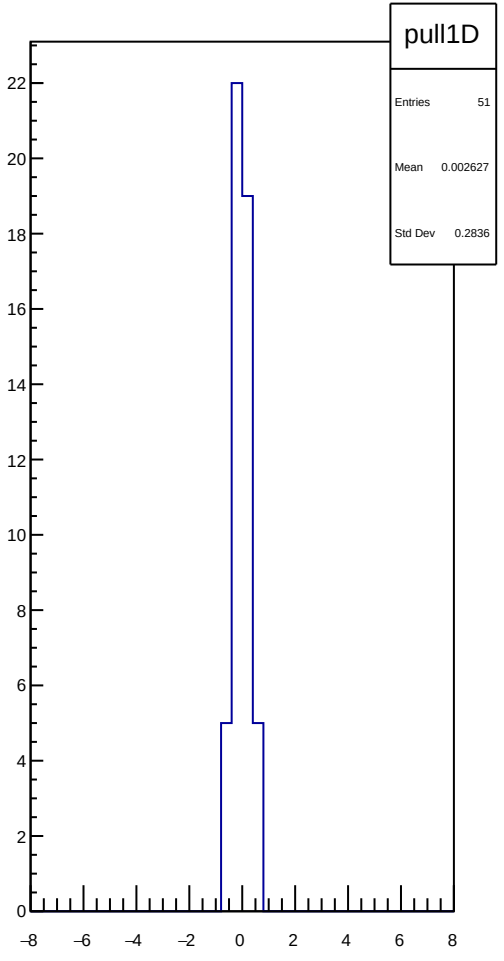

pull1D
Entries 51
Mean 0.007078
Std Dev 1.011

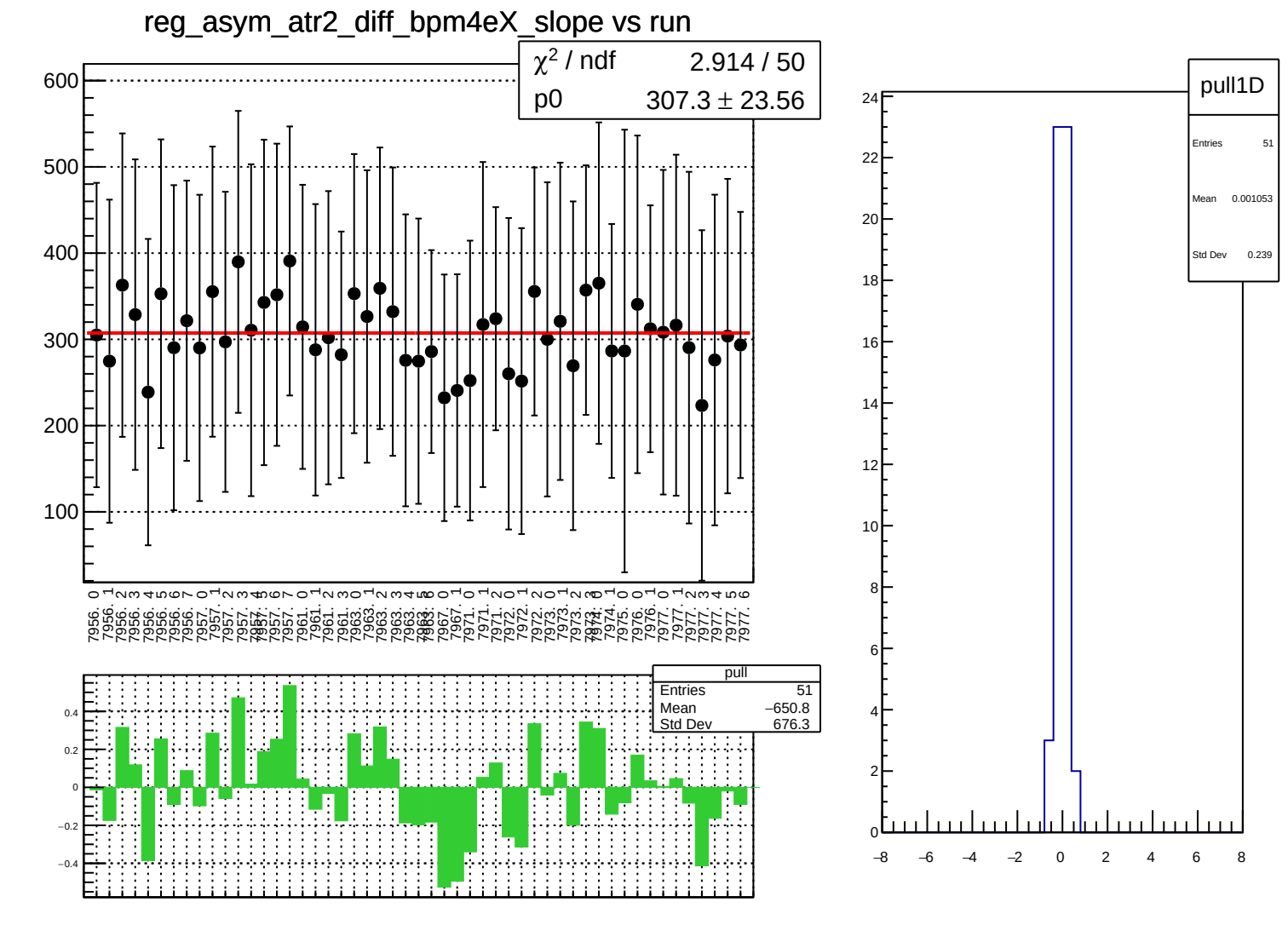

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 2615 / 50
p0 −49.07 ± 0.2008
pull
Entries 51
Mean −68.43
Std Dev 91.47

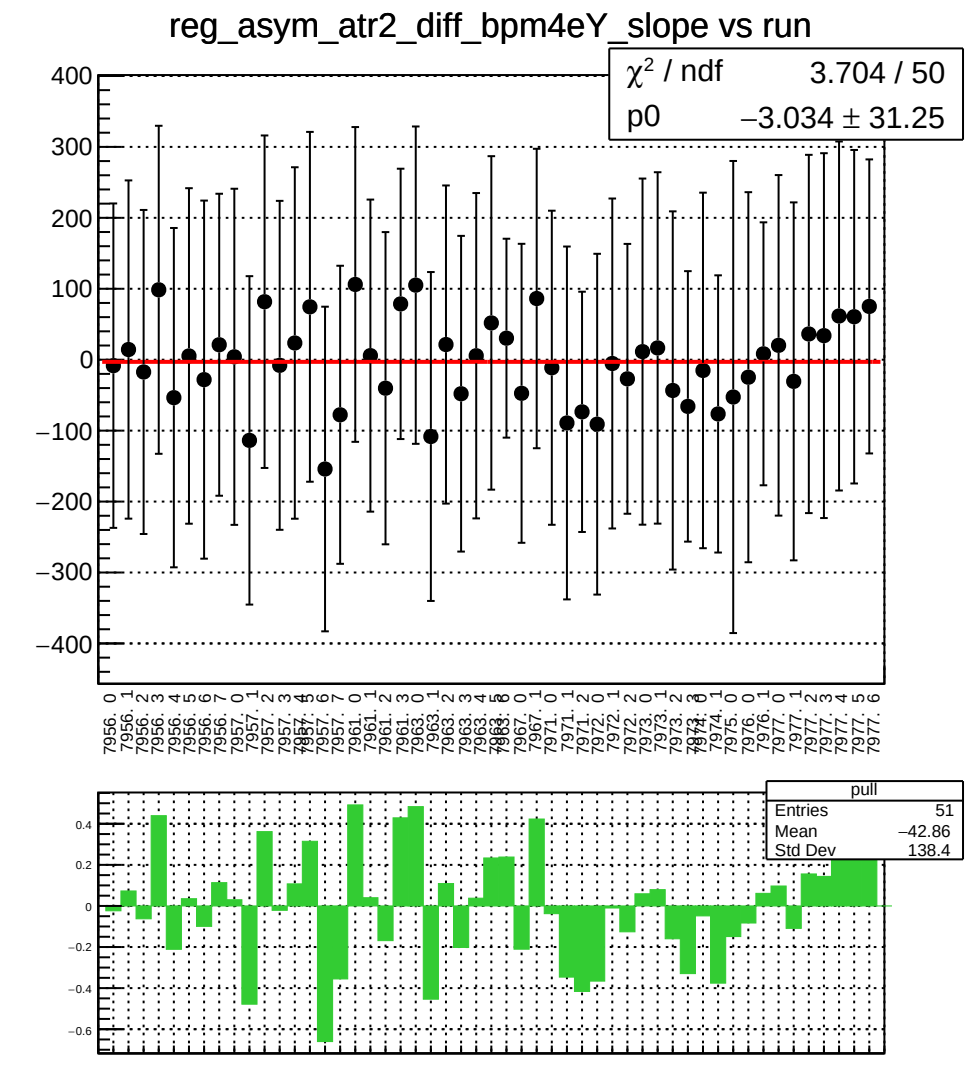

pull1D
Entries 51
Mean −2.246
Std Dev 4.203

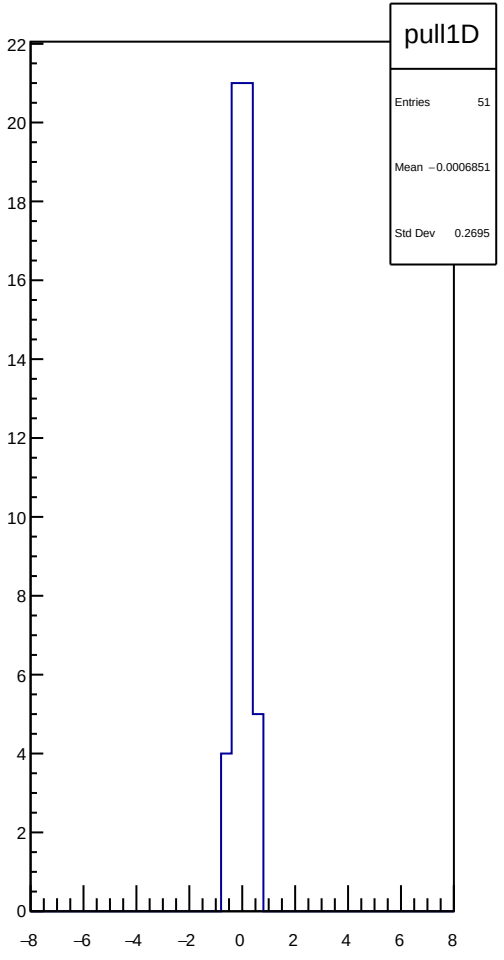

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 2.967 / 50
p0 −218 ± 26.46
pull
Entries 51
Mean −610.7
Std Dev 636.4
pull1D
Entries 51
Mean −0.001398
Std Dev 0.2412

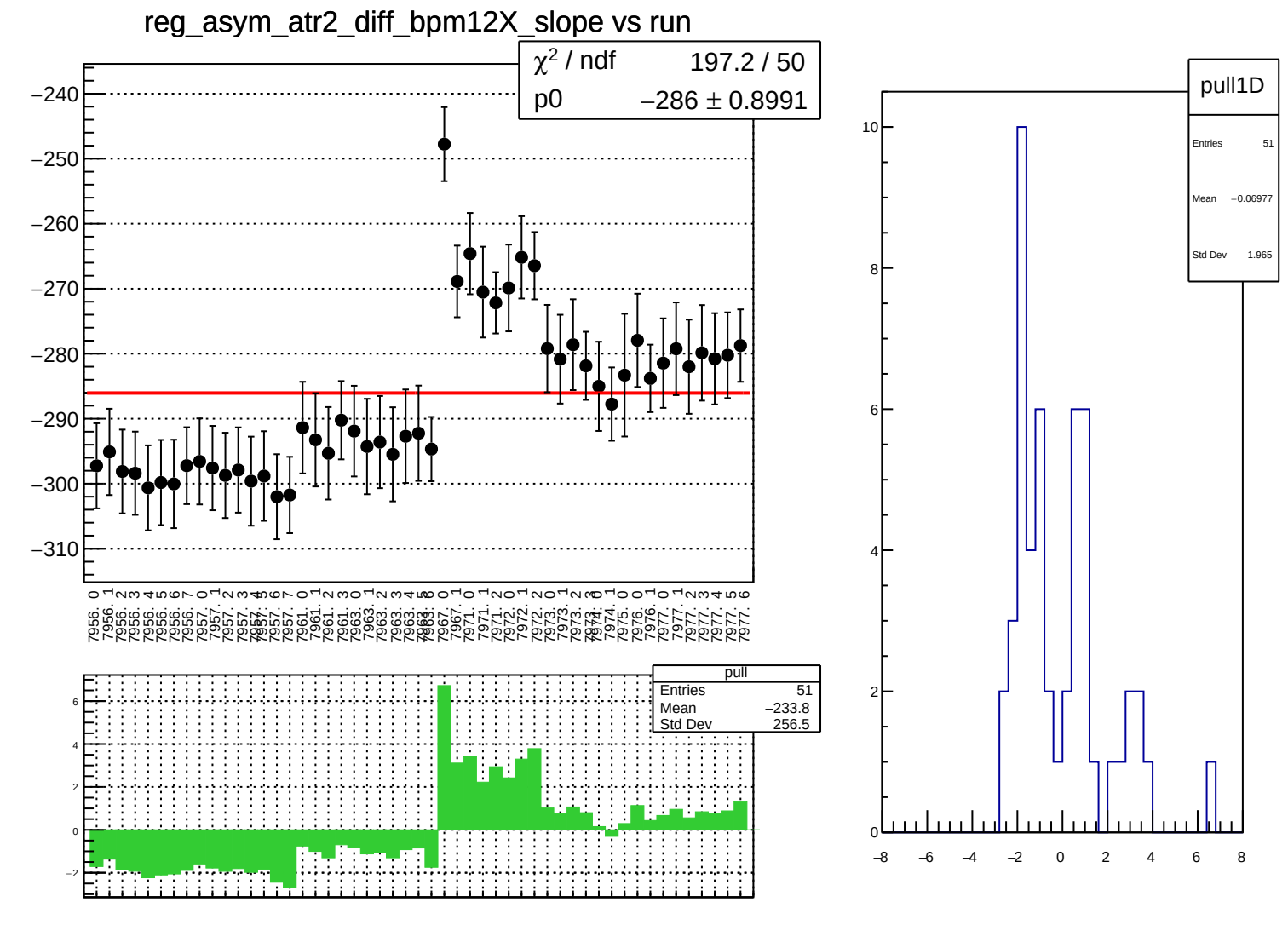

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.101 / 50
p0 105.1 ± 27.28
pull
Entries 51
Mean 66.3
Std Dev 65.13

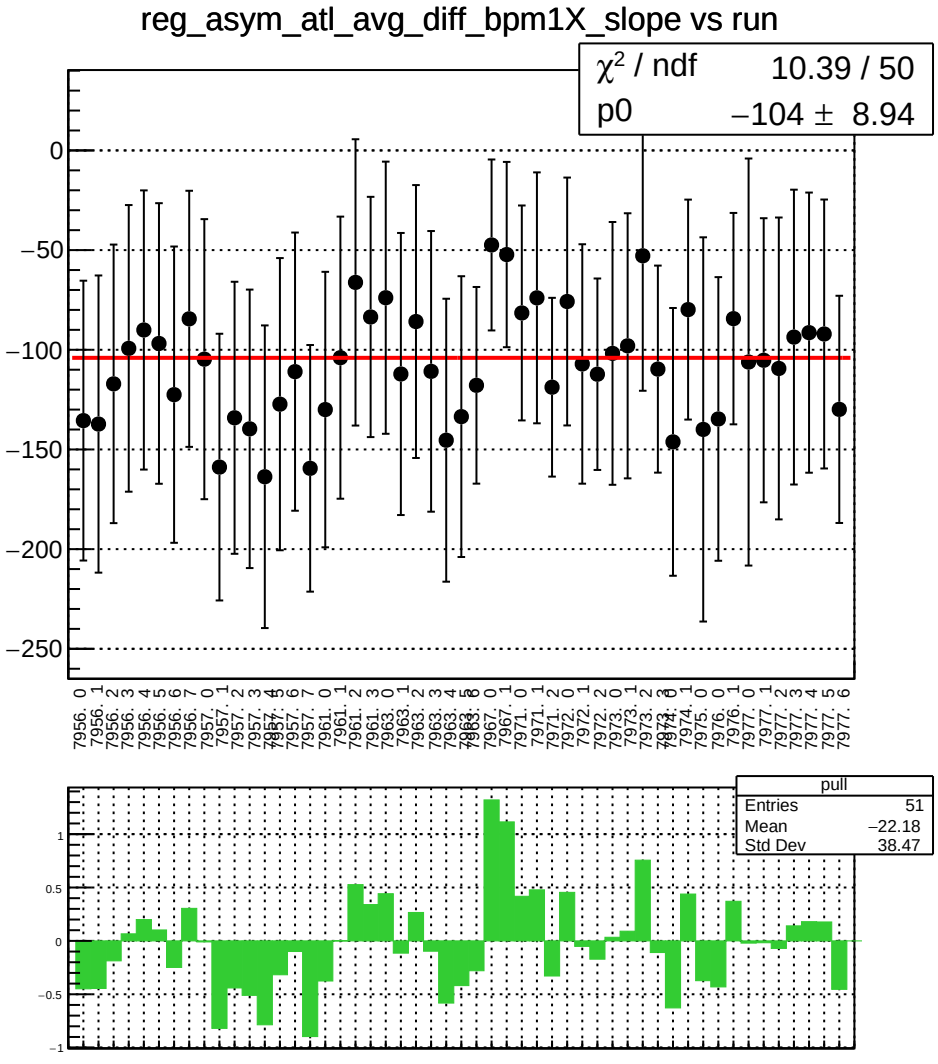

pull1D
Entries 51
Mean 0.002627
Std Dev 0.2836

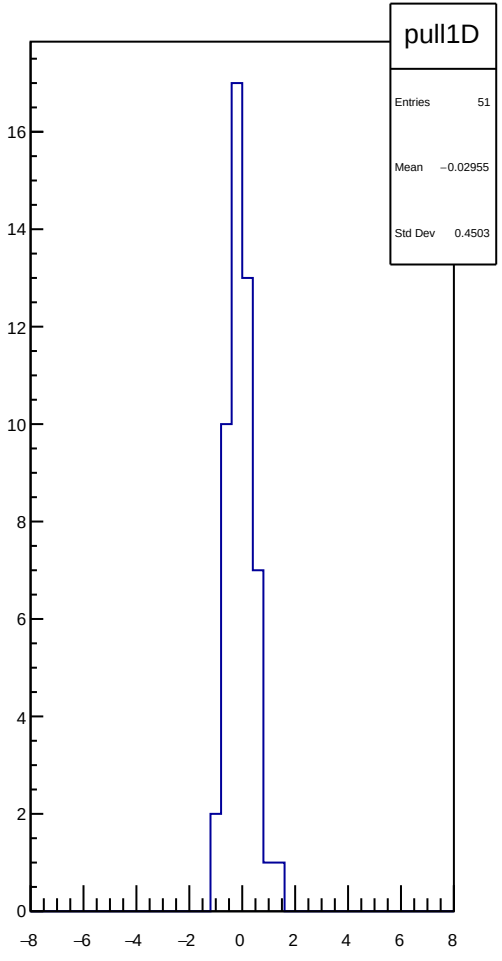

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 2.914 / 50
p0 307.3 ± 23.56
pull
Entries 51
Mean −650.8
Std Dev 676.3
pull1D
Entries 51
Mean 0.001053
Std Dev 0.239

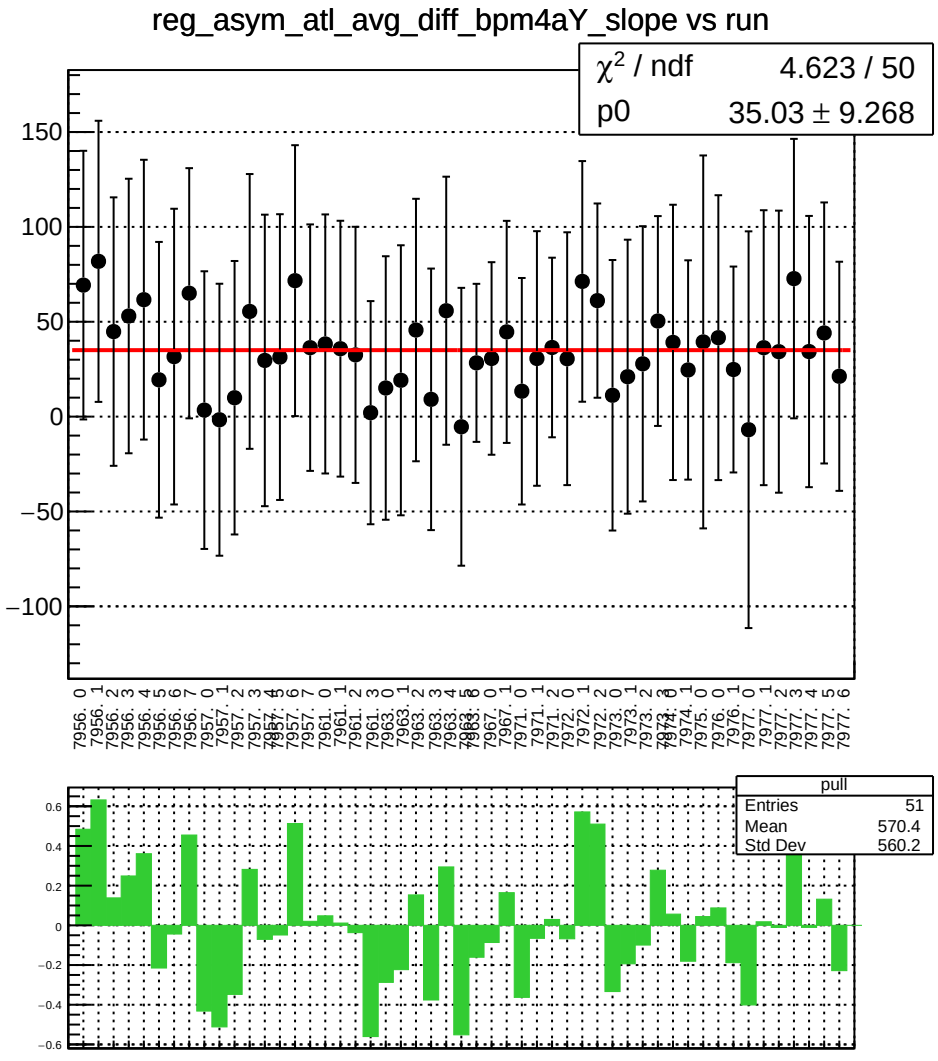

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 3.704 / 50
p0 −3.034 ± 31.25
pull
Entries 51
Mean −42.86
Std Dev 138.4

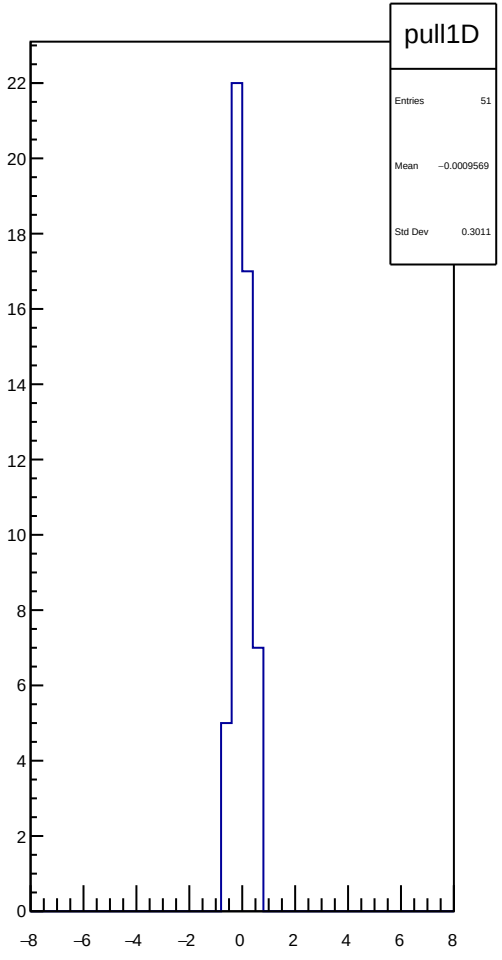

pull1D
Entries 51
Mean −0.0006851
Std Dev 0.2695

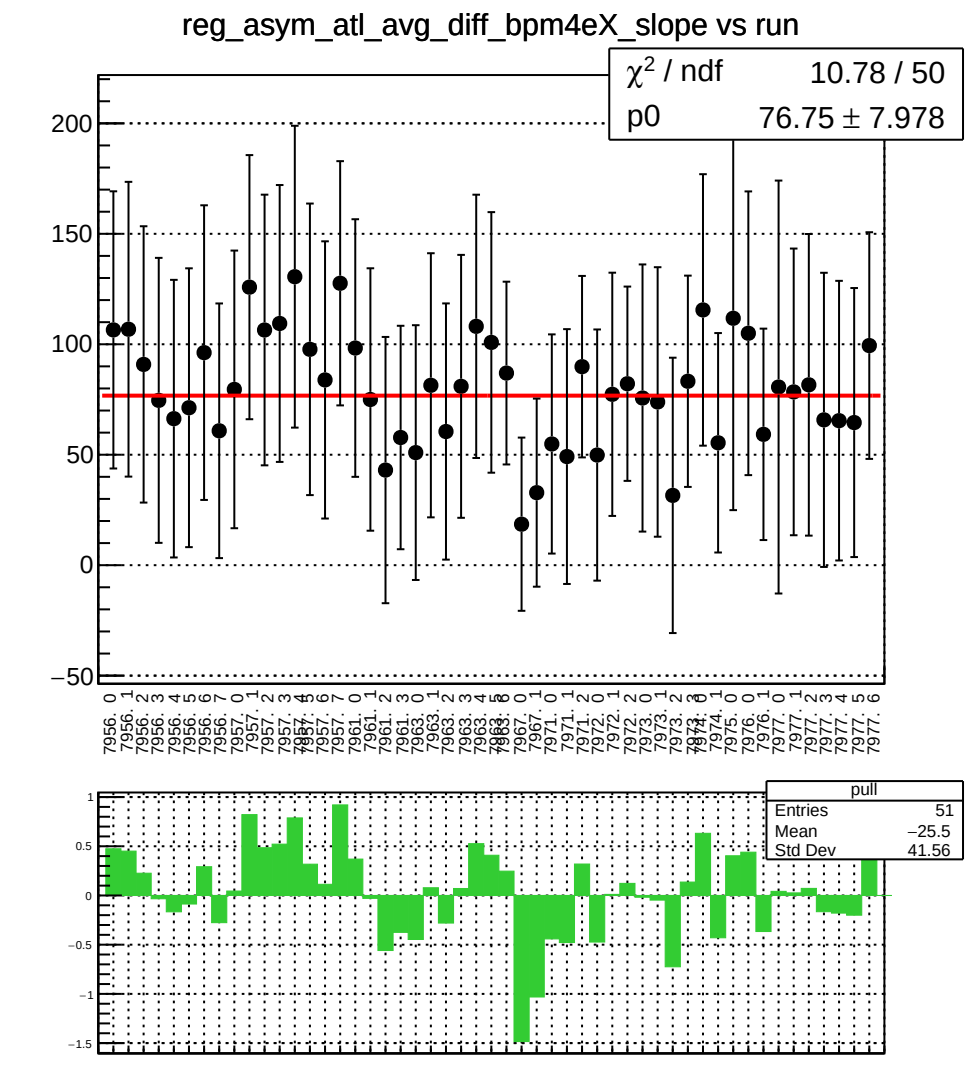

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 197.2 / 50
p0 −286 ± 0.8991
pull
Entries 51
Mean −233.8
Std Dev 256.5
pull1D
Entries 51
Mean −0.06977
Std Dev 1.965

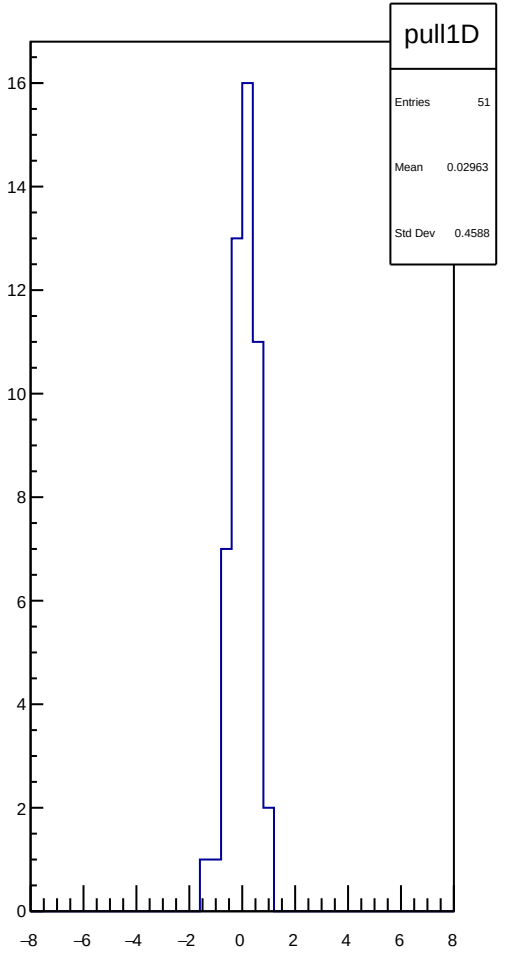

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 10.39 / 50
p0 −104 ± 8.94
pull
Entries 51
Mean −22.18
Std Dev 38.47

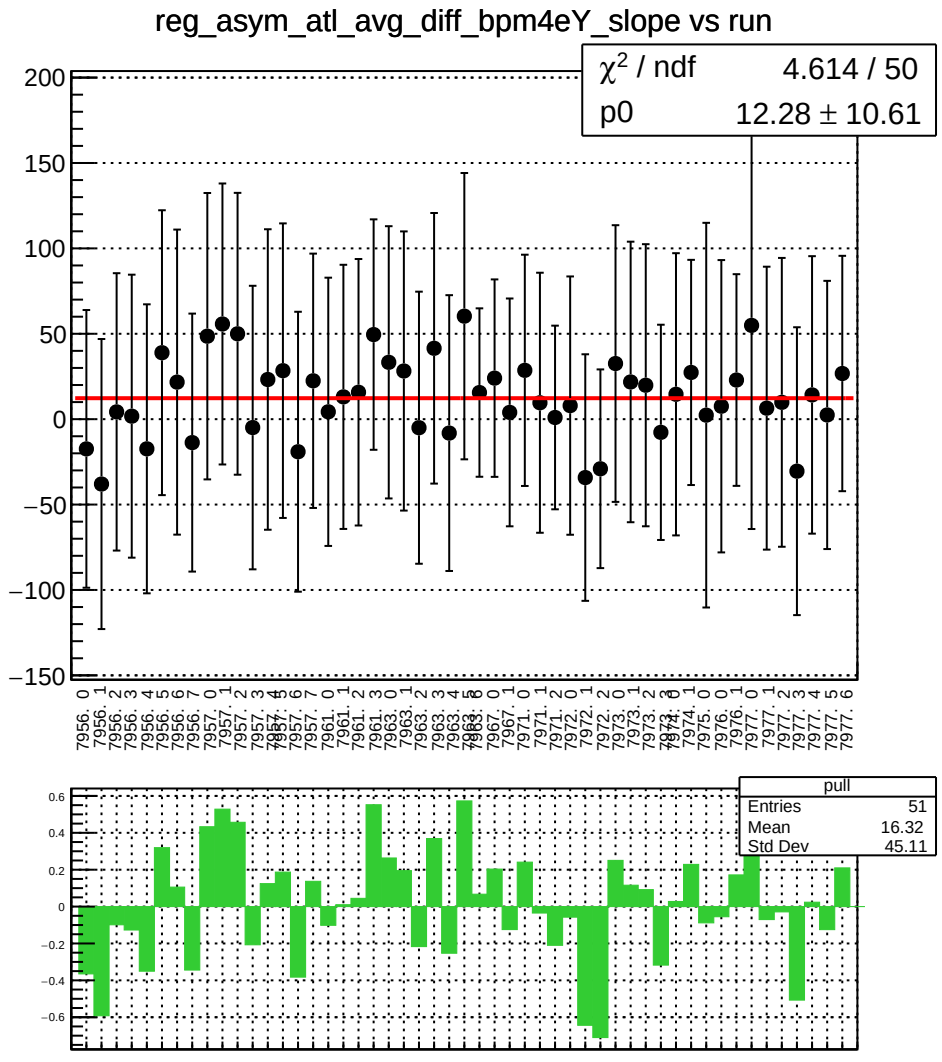

pull1D
Entries 51
Mean −0.02955
Std Dev 0.4503

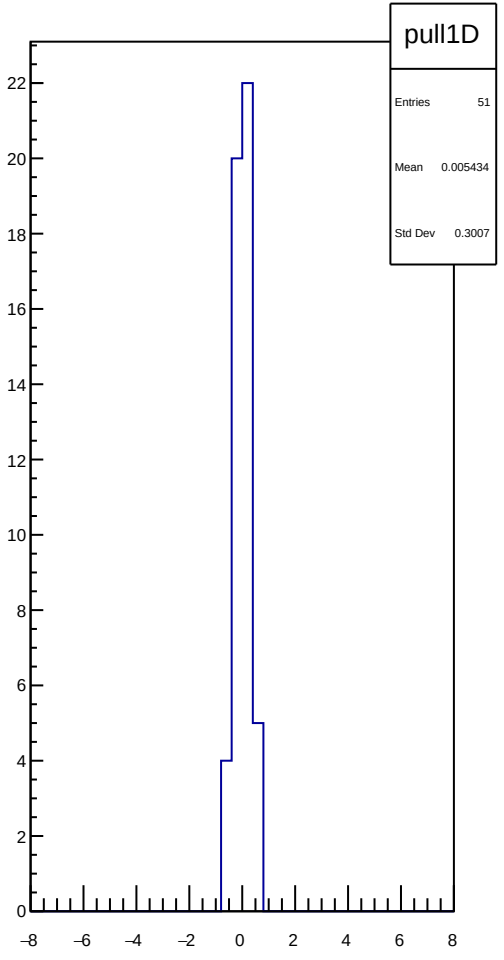

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.623 / 50
p0 35.03 ± 9.268
pull
Entries 51
Mean 570.4
Std Dev 560.2

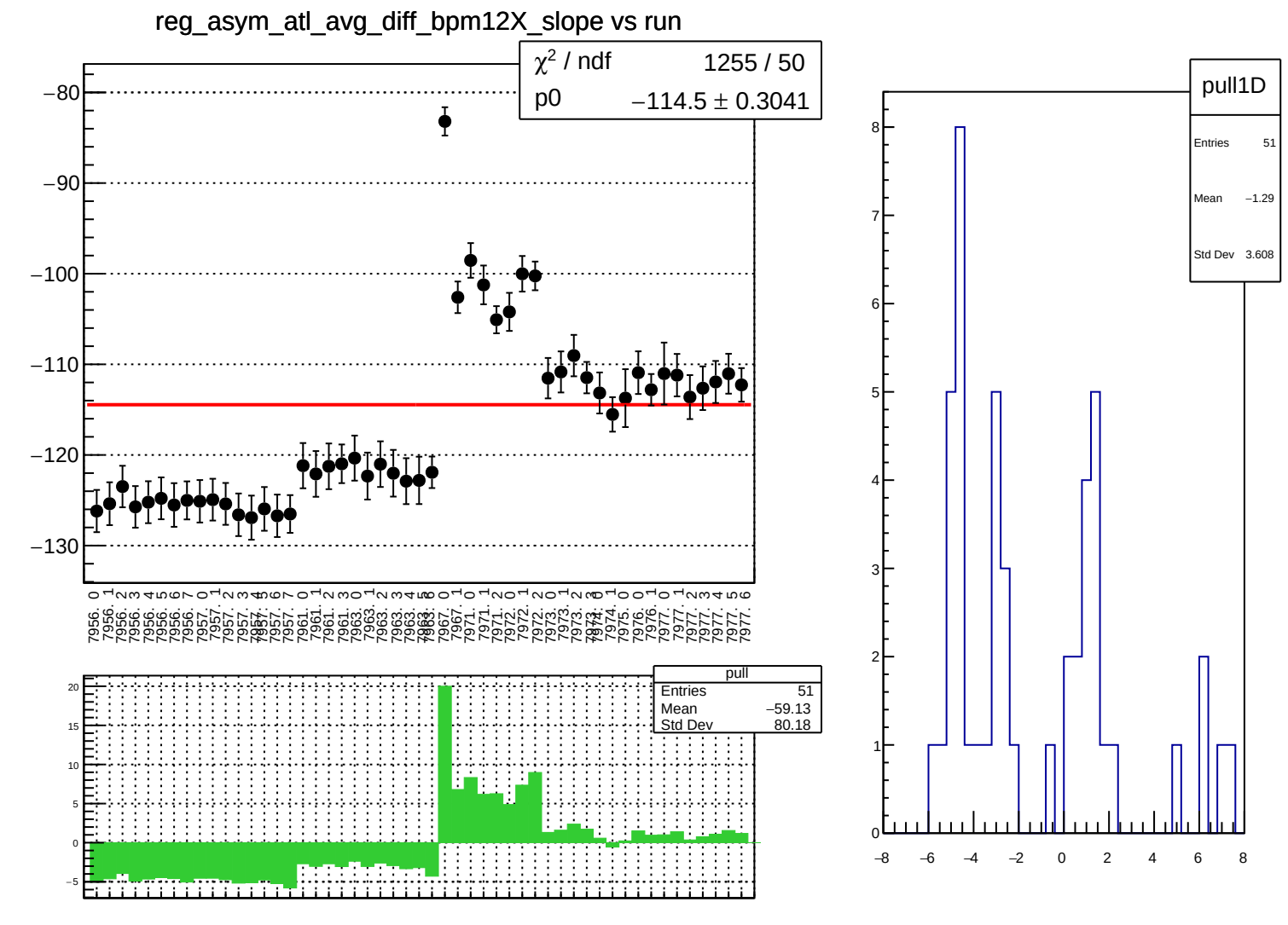

pull1D
Entries 51
Mean −0.0009569
Std Dev 0.3011

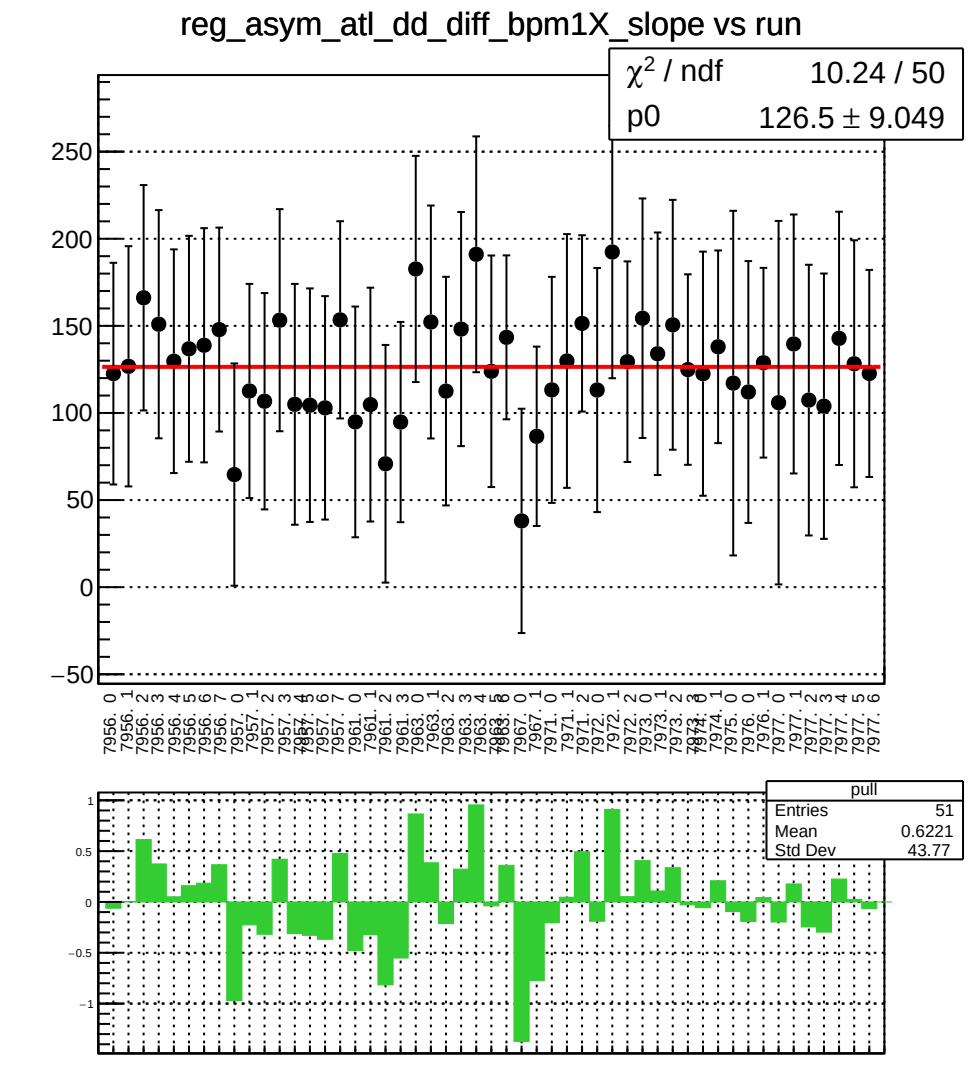

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.78 / 50
p0 76.75 ± 7.978
pull
Entries 51
Mean −25.5
Std Dev 41.56

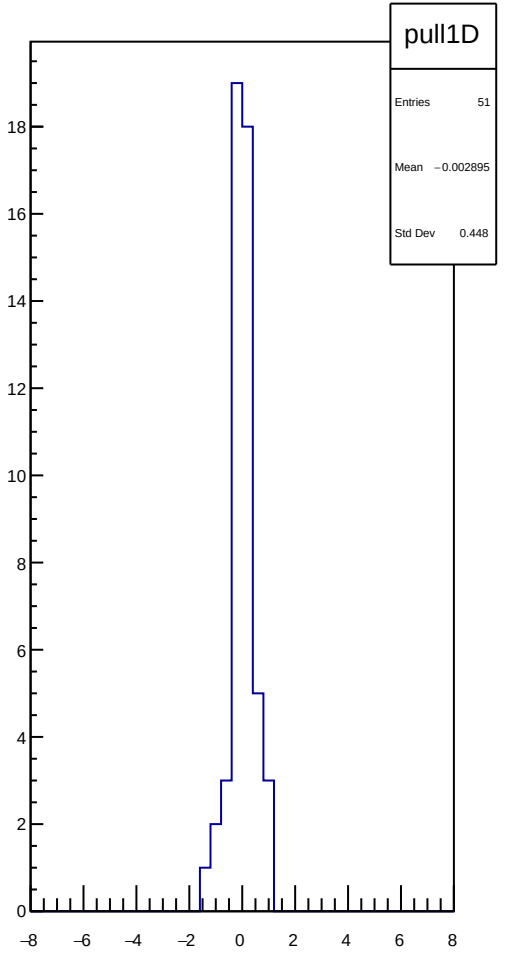

pull1D
Entries 51
Mean 0.02963
Std Dev 0.4588

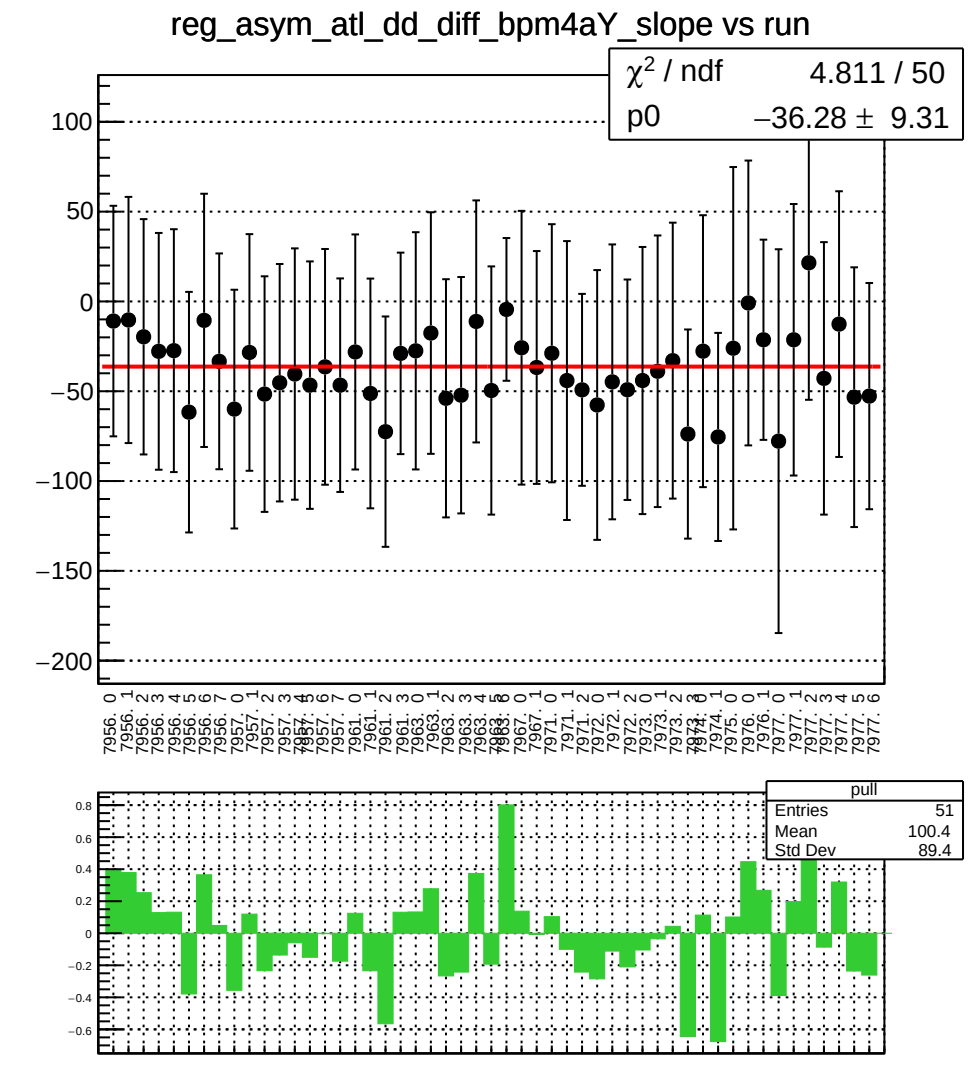

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.614 / 50
p0 12.28 ± 10.61
pull
Entries 51
Mean 16.32
Std Dev 45.11

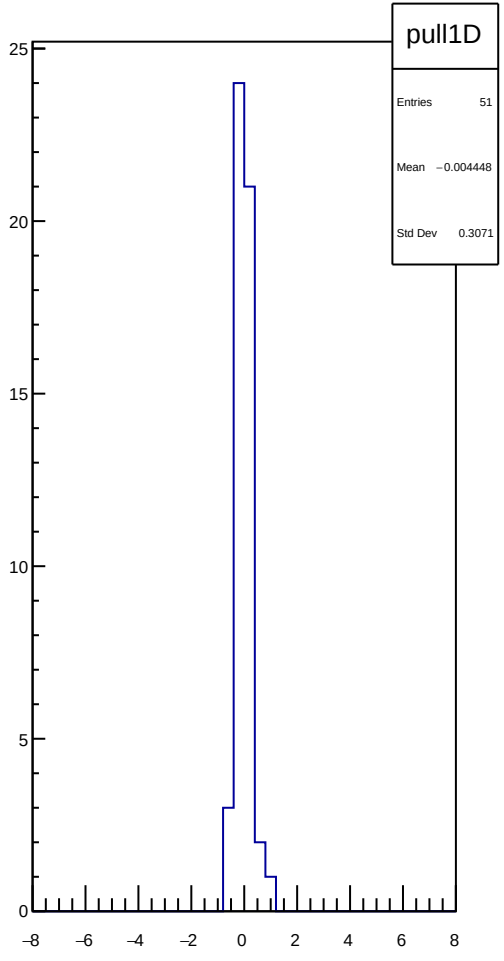

pull1D
Entries 51
Mean 0.005434
Std Dev 0.3007

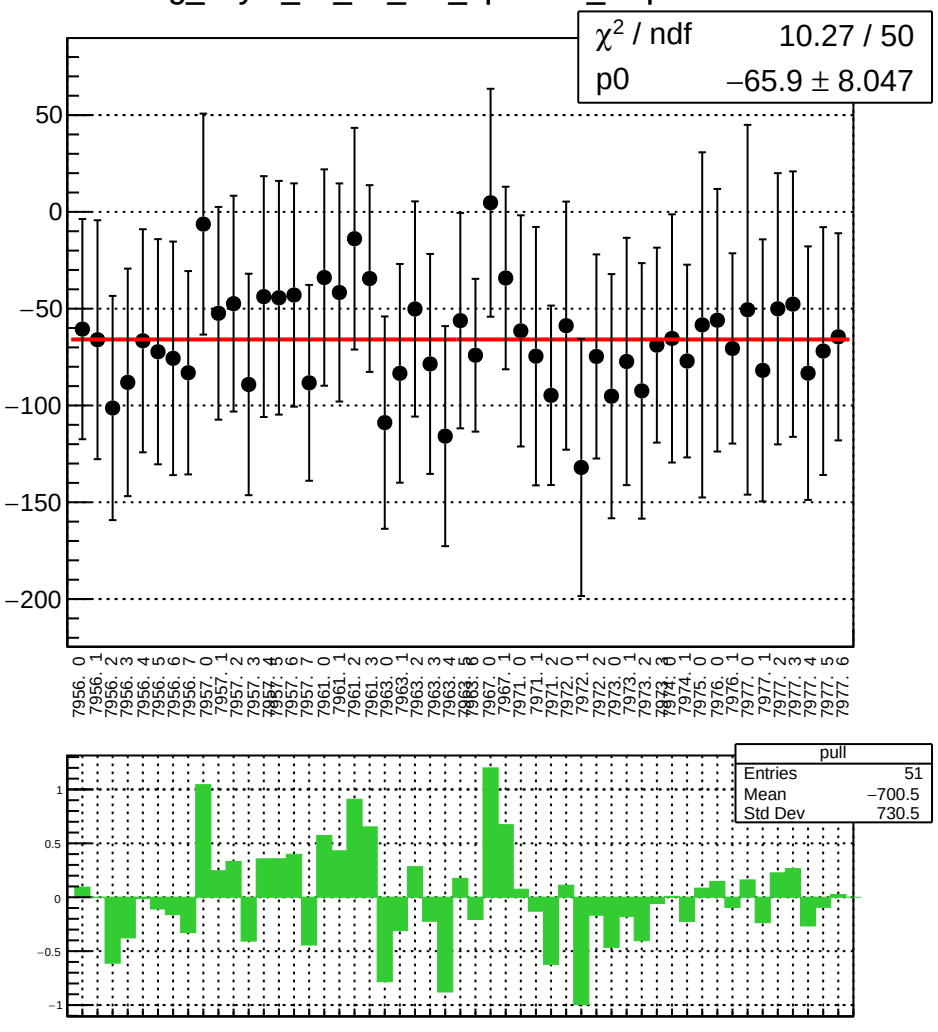

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1255 / 50
p0 −114.5 ± 0.3041
pull
Entries 51
Mean −59.13
Std Dev 80.18
pull1D
Entries 51
Mean −1.29
Std Dev 3.608

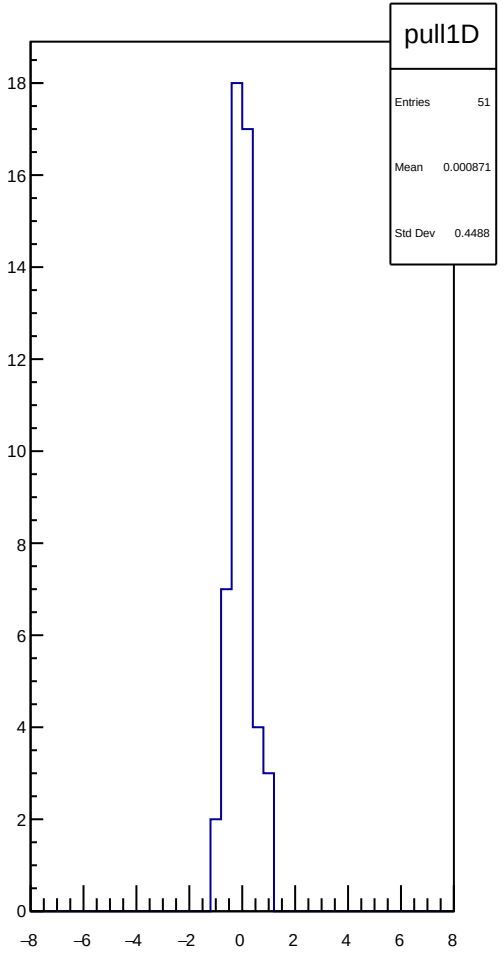

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 10.24 / 50
p0 126.5 ± 9.049
pull
Entries 51
Mean 0.6221
Std Dev 43.77

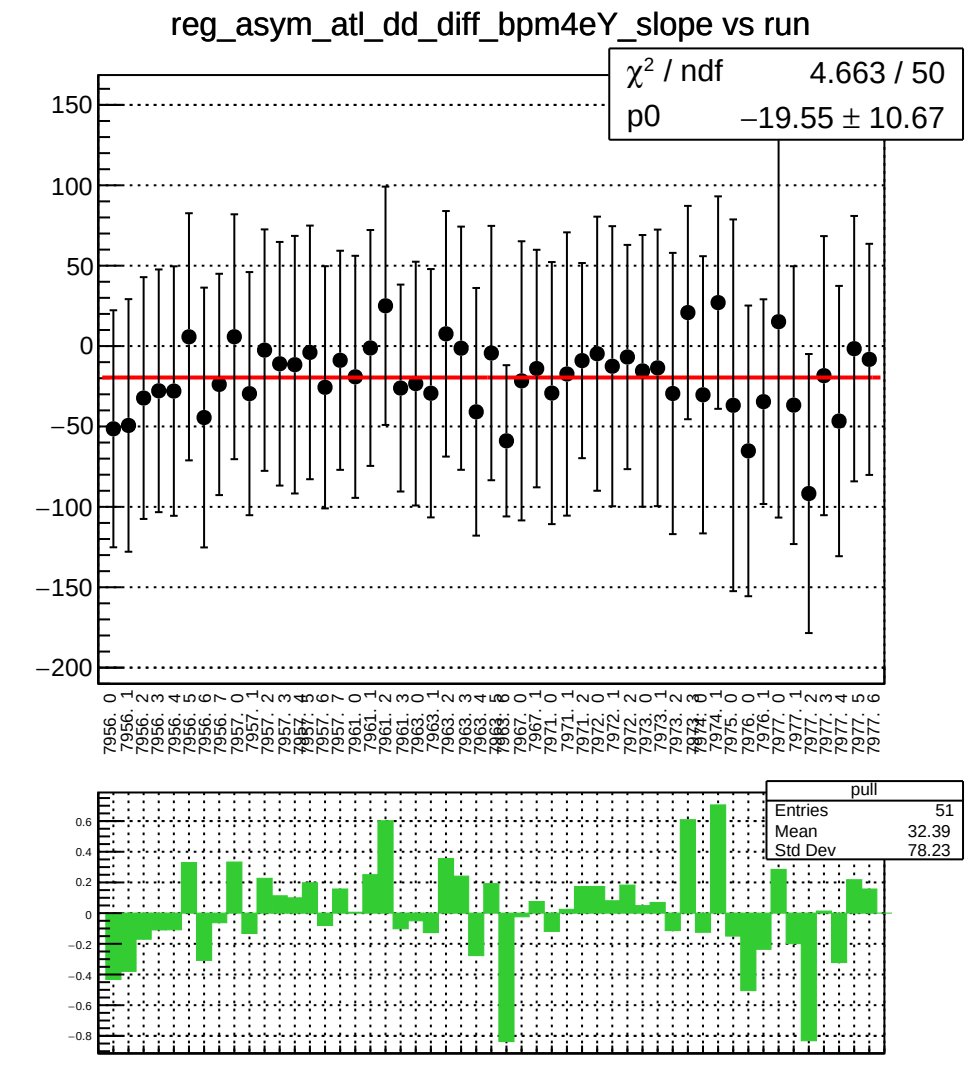

pull1D
Entries 51
Mean −0.002895
Std Dev 0.448

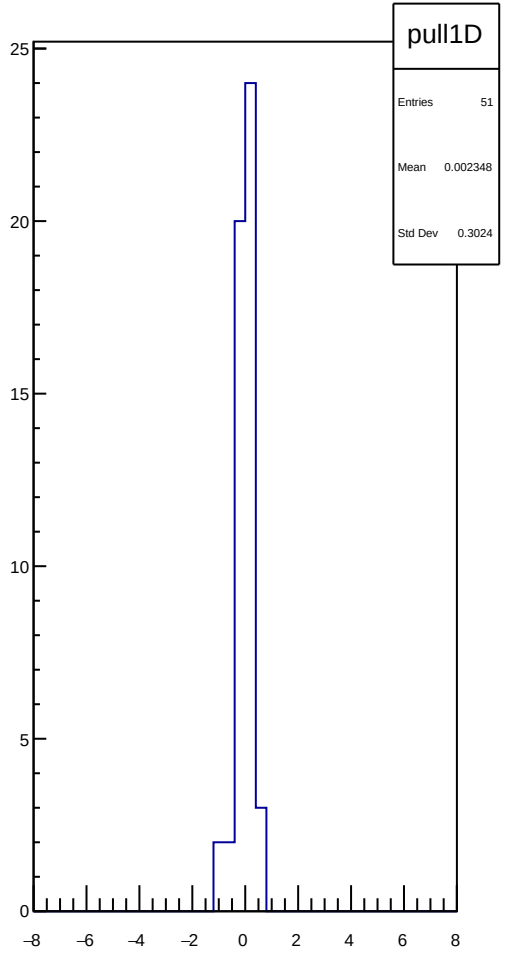

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.811 / 50
p0 −36.28 ± 9.31
pull
Entries 51
Mean 100.4
Std Dev 89.4

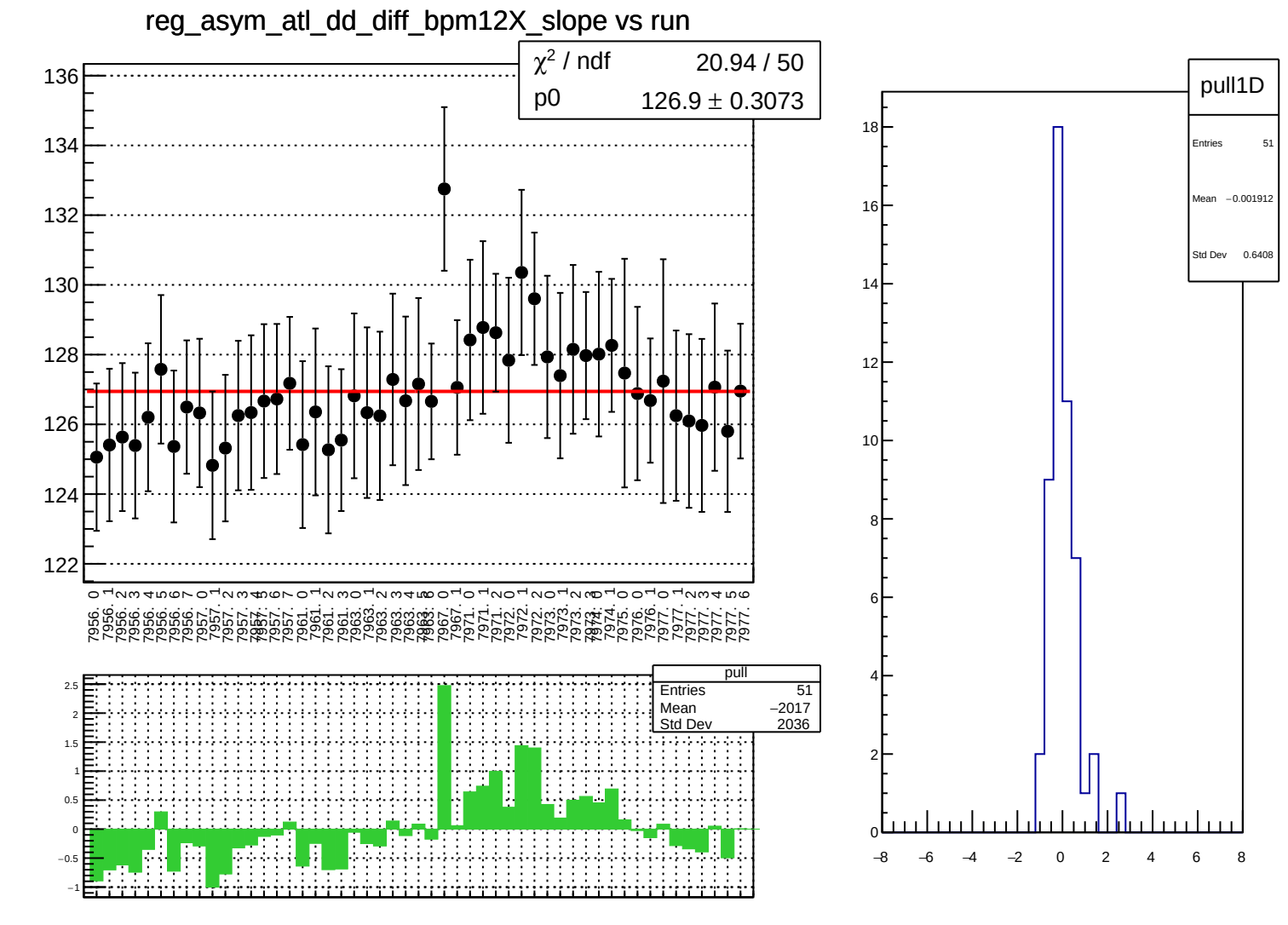

pull1D
Entries 51
Mean −0.004448
Std Dev 0.3071

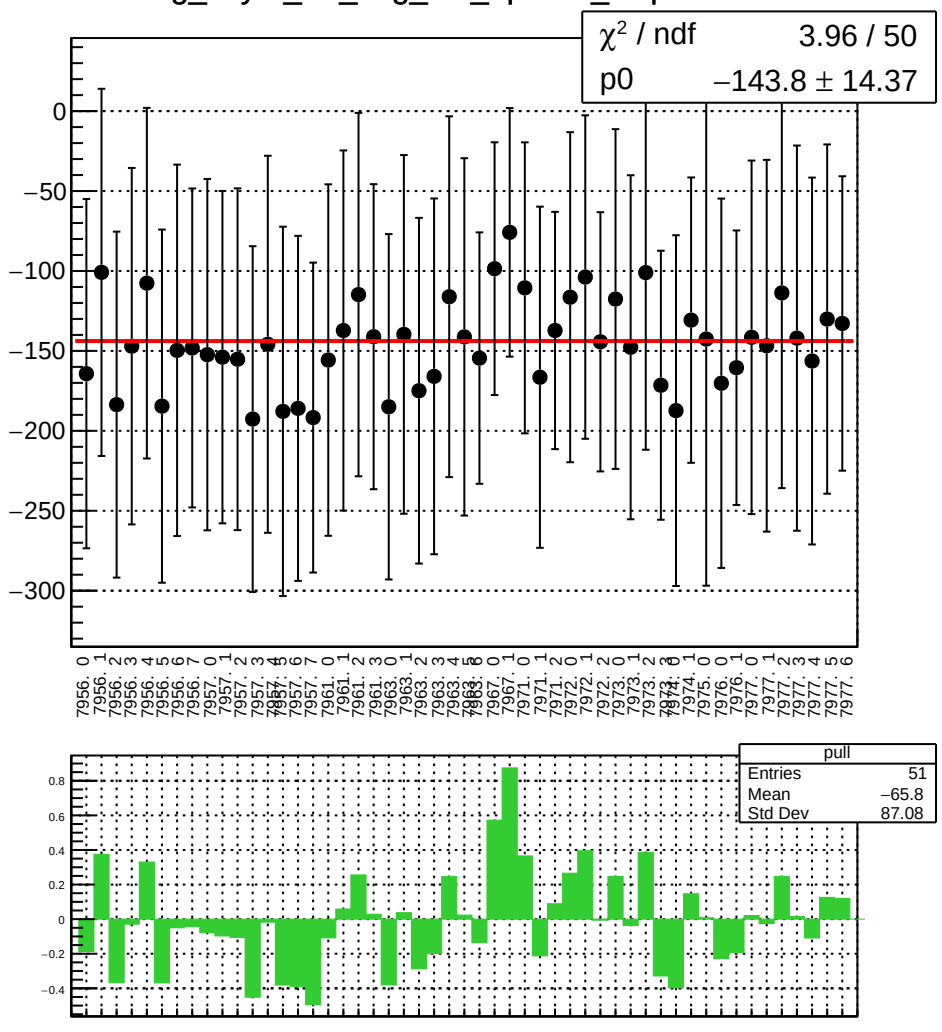

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.27 / 50
p0 −65.9 ± 8.047
pull
Entries 51
Mean −700.5
Std Dev 730.5

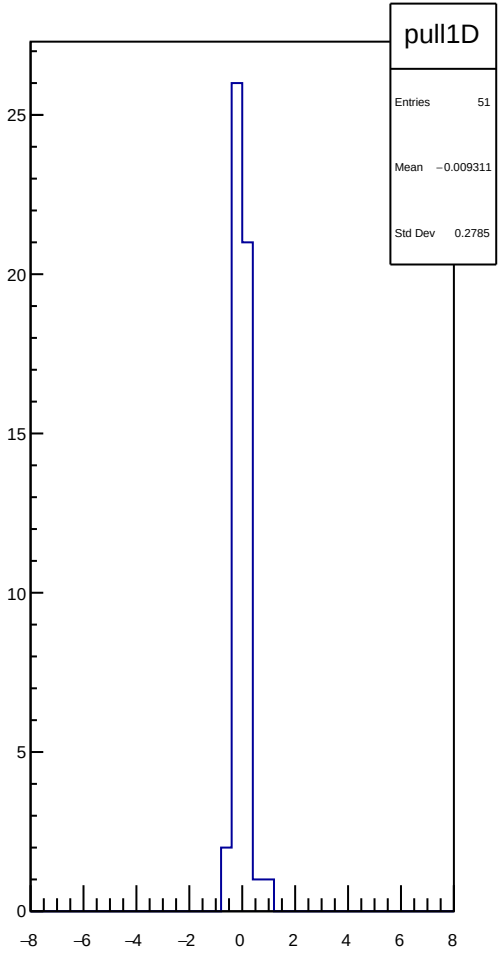

pull1D
Entries 51
Mean 0.000871
Std Dev 0.4488

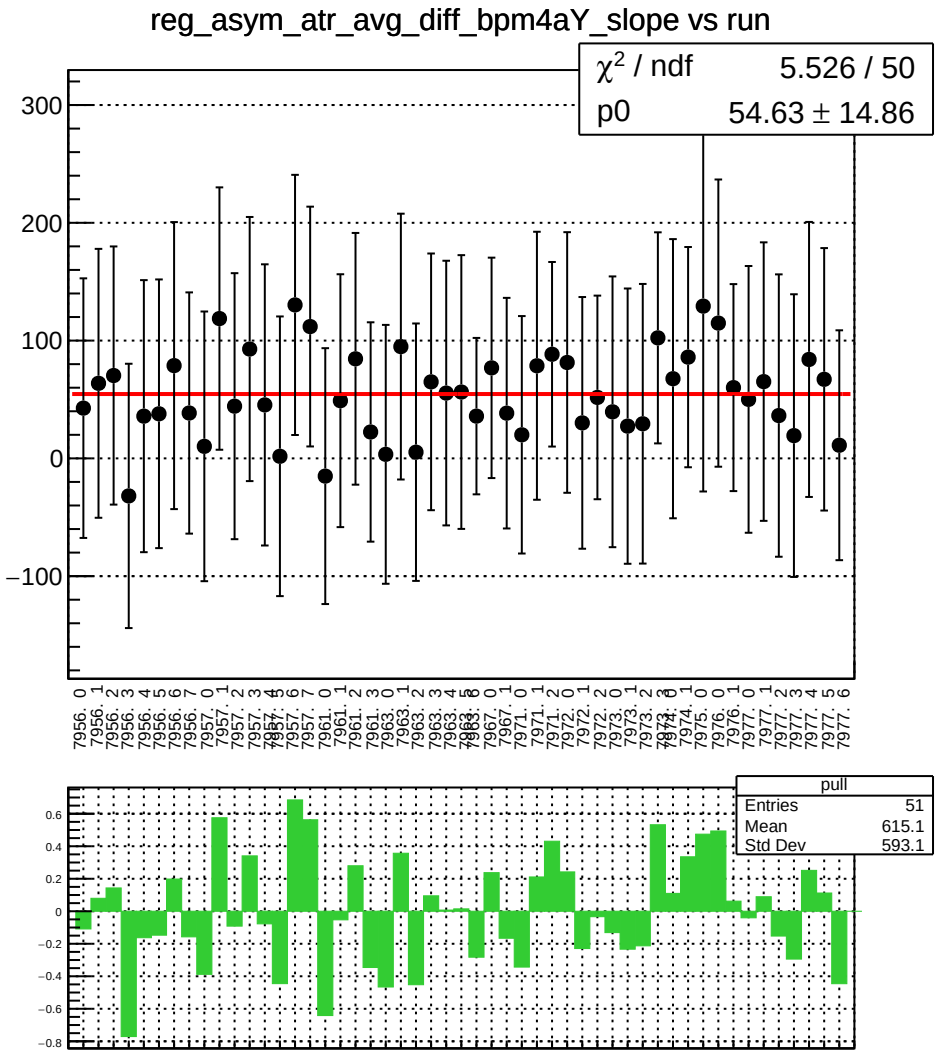

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.663 / 50
p0 −19.55 ± 10.67
pull
Entries 51
Mean 32.39
Std Dev 78.23

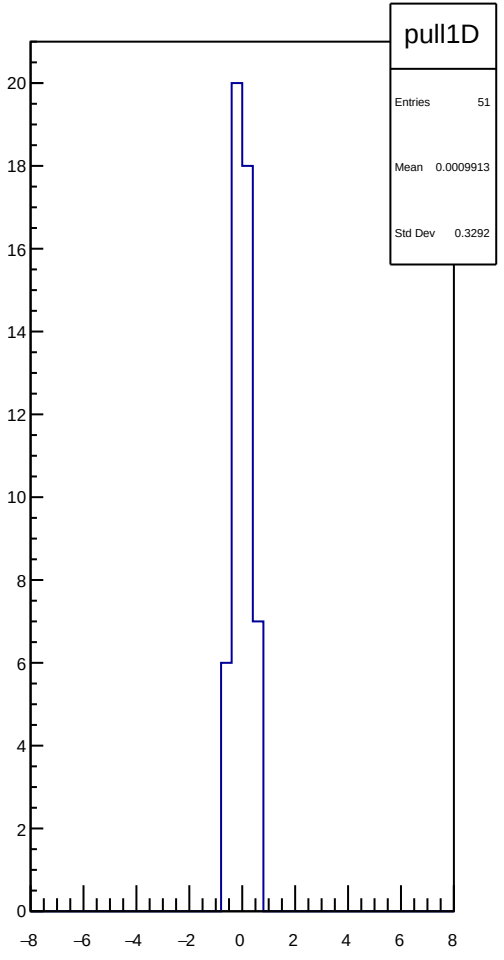

pull1D
Entries 51
Mean 0.002348
Std Dev 0.3024

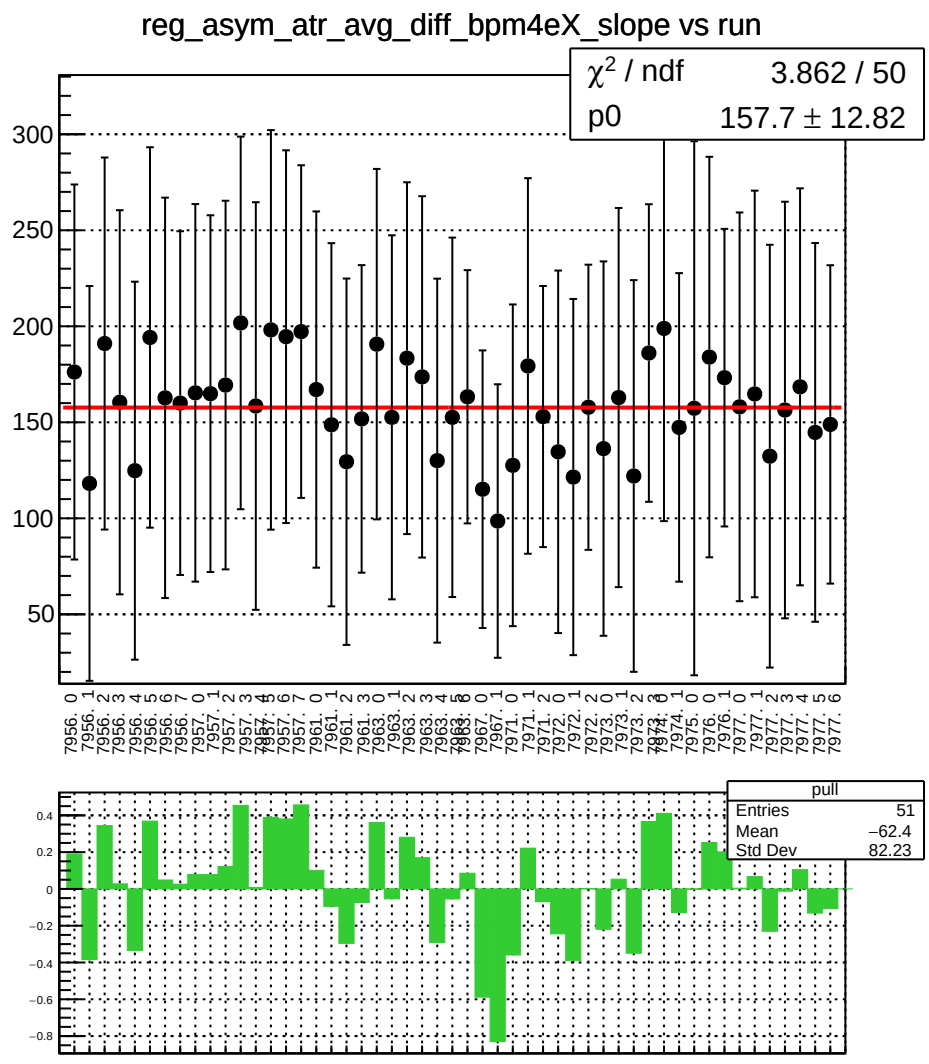

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 20.94 / 50
p0 126.9 ± 0.3073
pull
Entries 51
Mean −2017
Std Dev 2036
pull1D
Entries 51
Mean −0.001912
Std Dev 0.6408

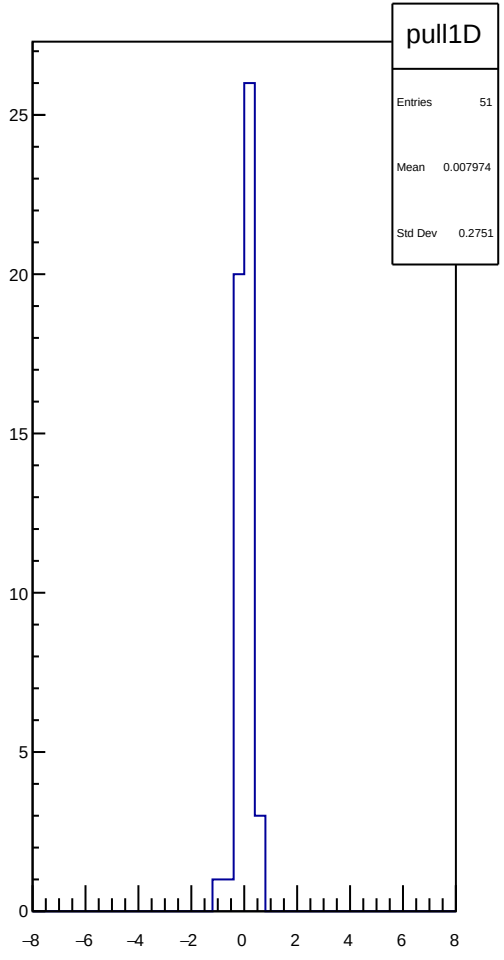

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 3.96 / 50
p0 −143.8 ± 14.37
pull
Entries 51
Mean −65.8
Std Dev 87.08

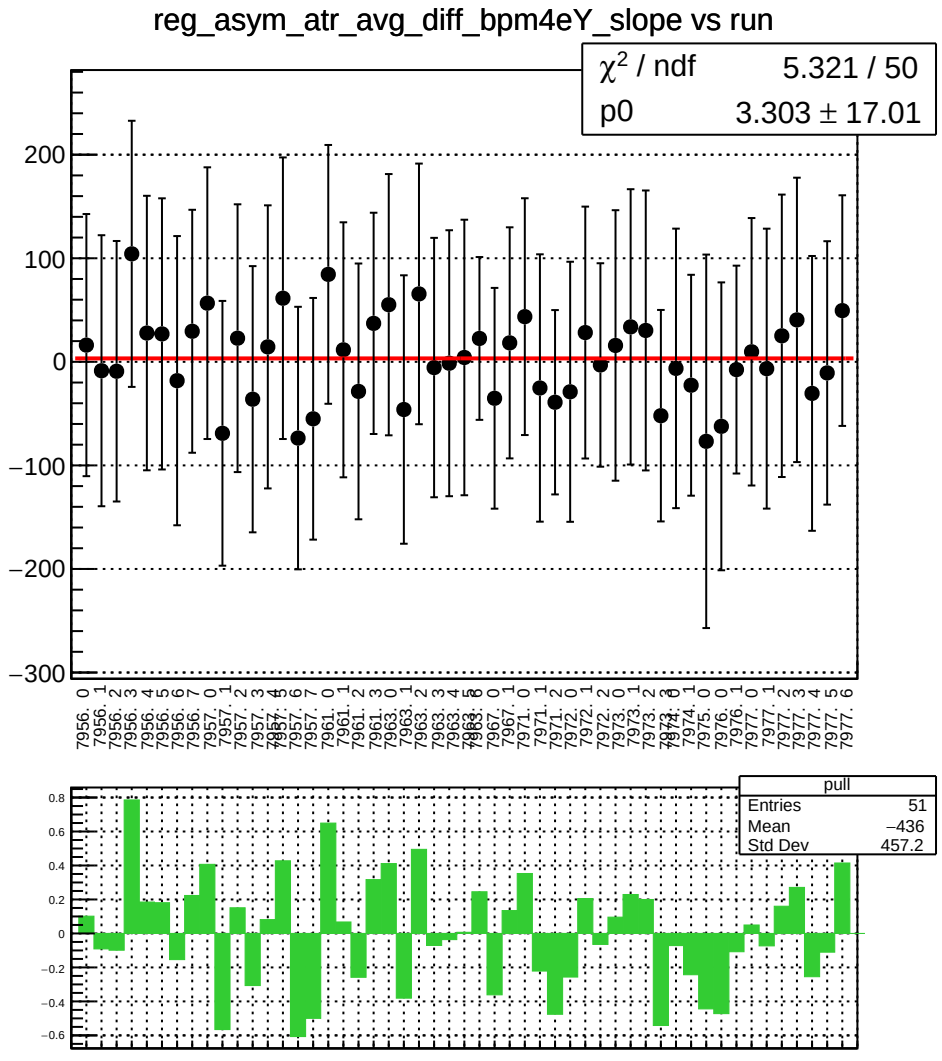

pull1D
Entries 51
Mean −0.009311
Std Dev 0.2785

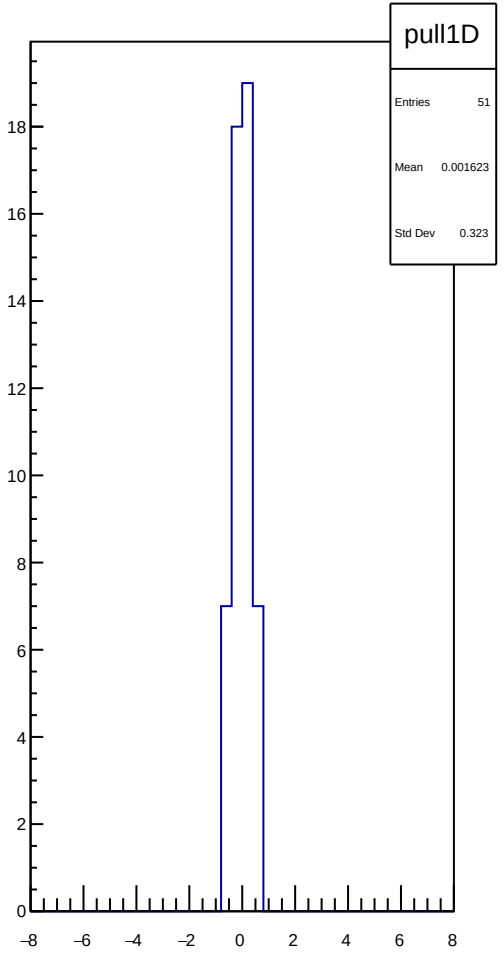

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.526 / 50
p0 54.63 ± 14.86
pull
Entries 51
Mean 615.1
Std Dev 593.1

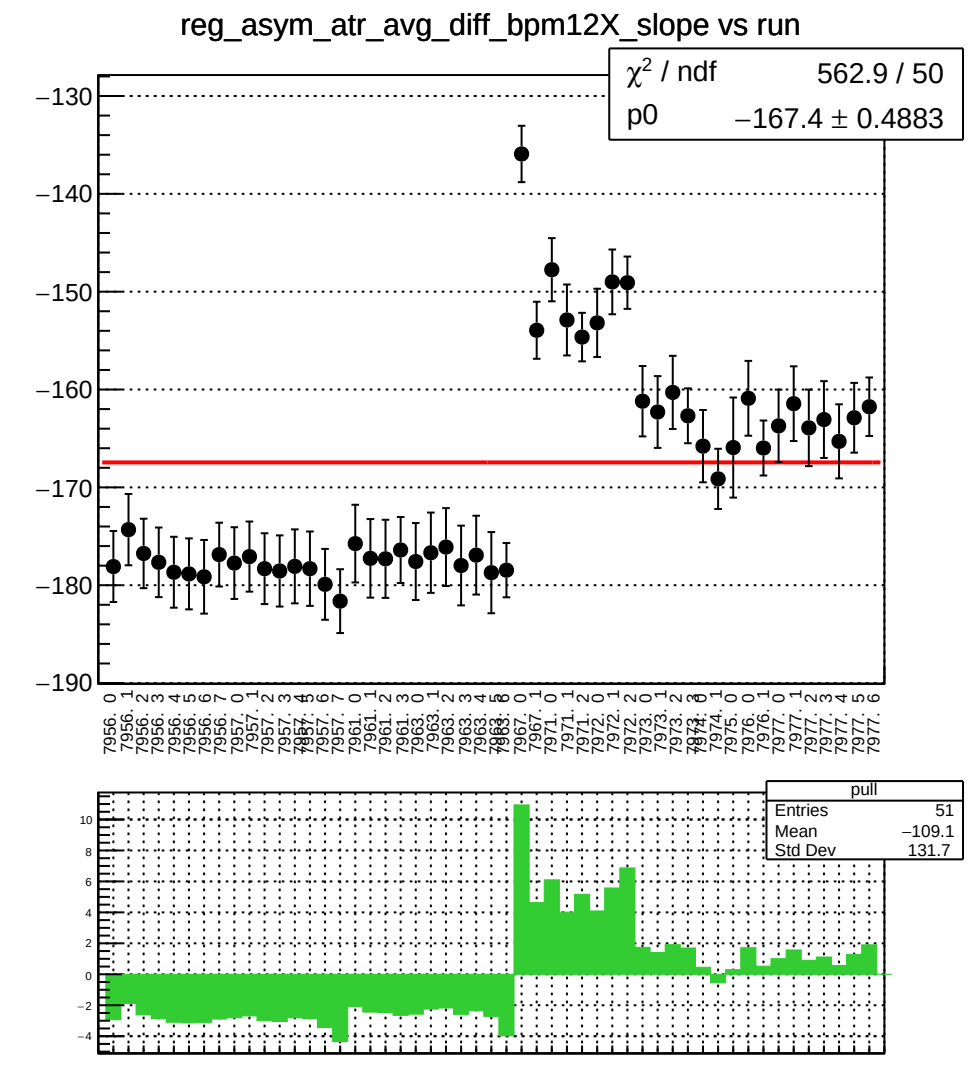

pull1D
Entries 51
Mean 0.0009913
Std Dev 0.3292

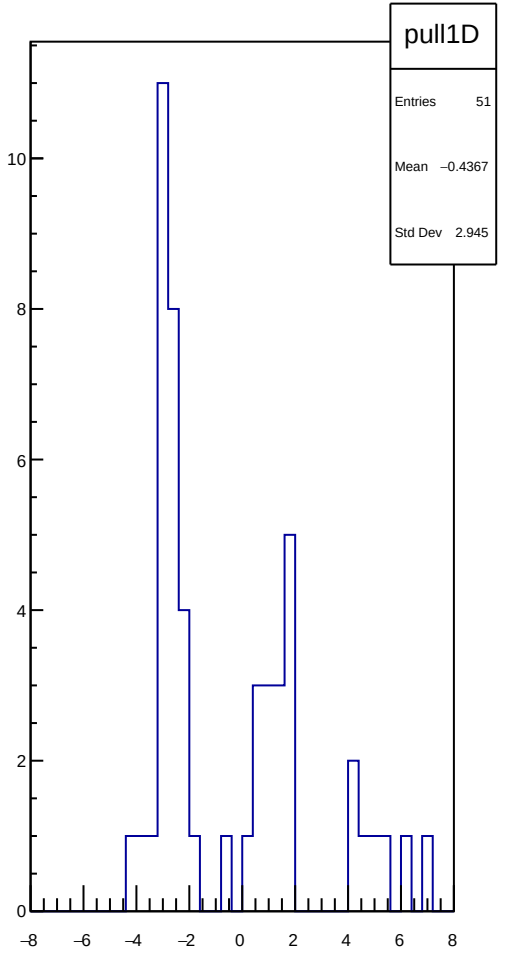

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.862 / 50
p0 157.7 ± 12.82
pull
Entries 51
Mean −62.4
Std Dev 82.23

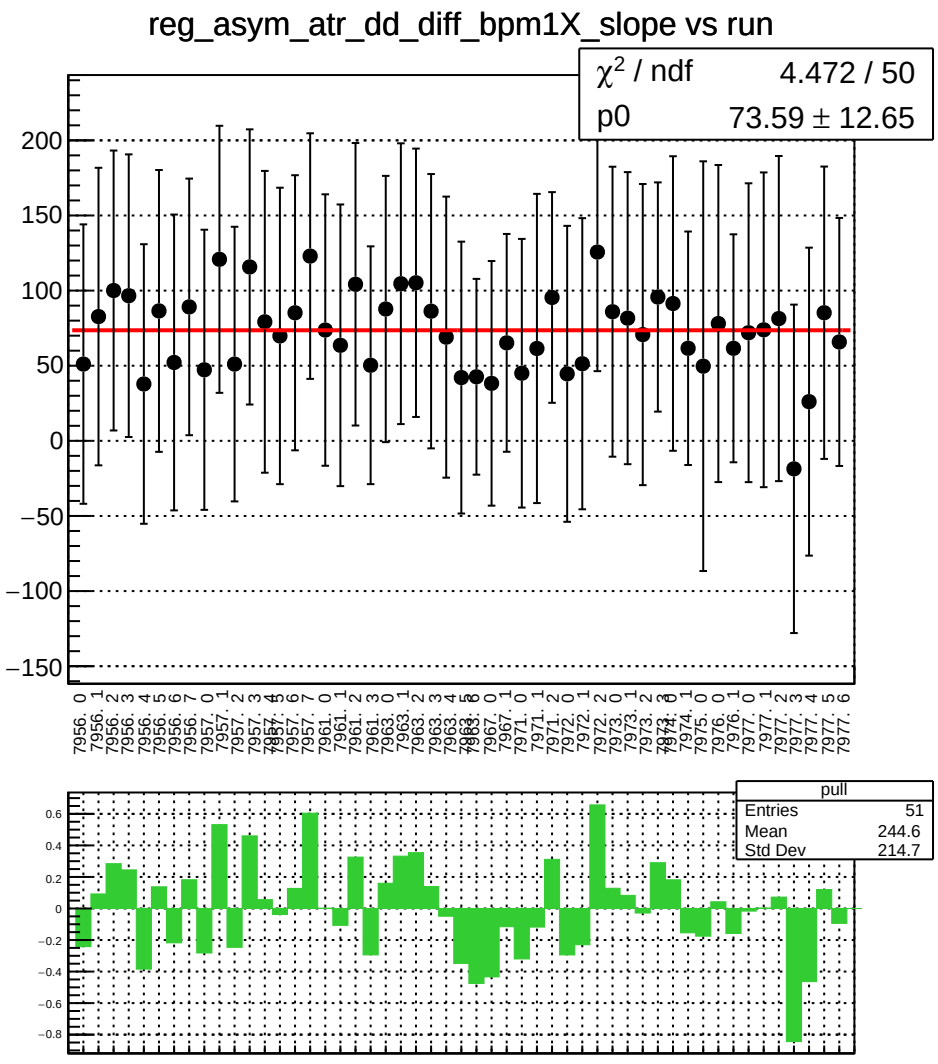

pull1D
Entries 51
Mean 0.007974
Std Dev 0.2751

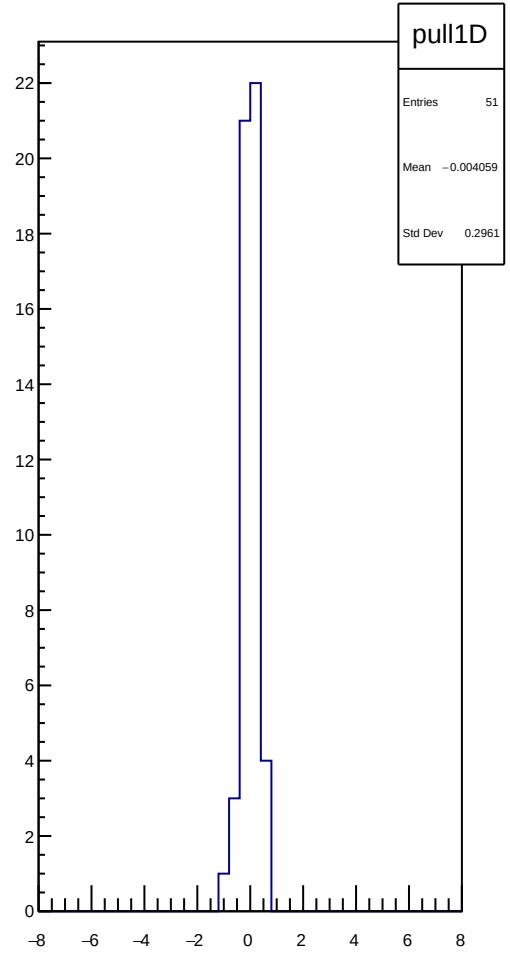

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.321 / 50
p0 3.303 ± 17.01
pull
Entries 51
Mean −436
Std Dev 457.2

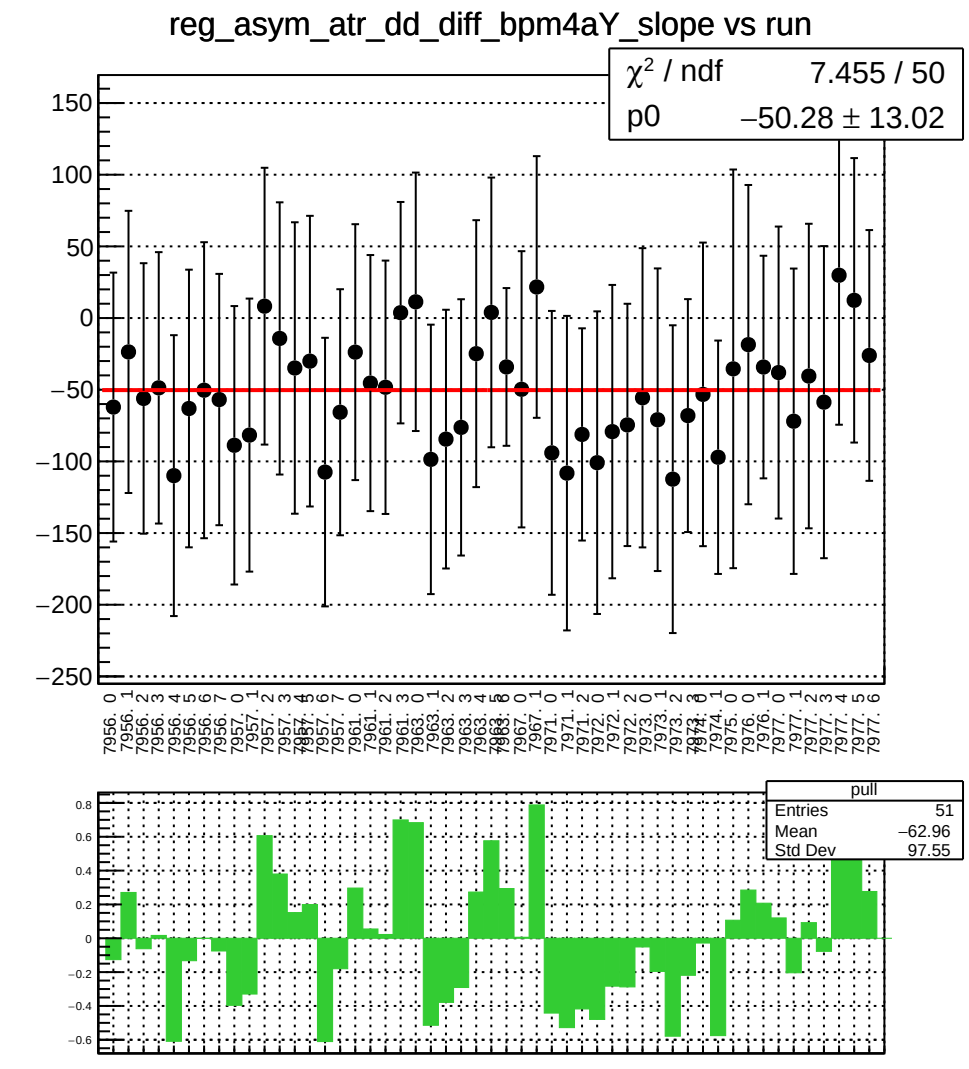

pull1D
Entries 51
Mean 0.001623
Std Dev 0.323

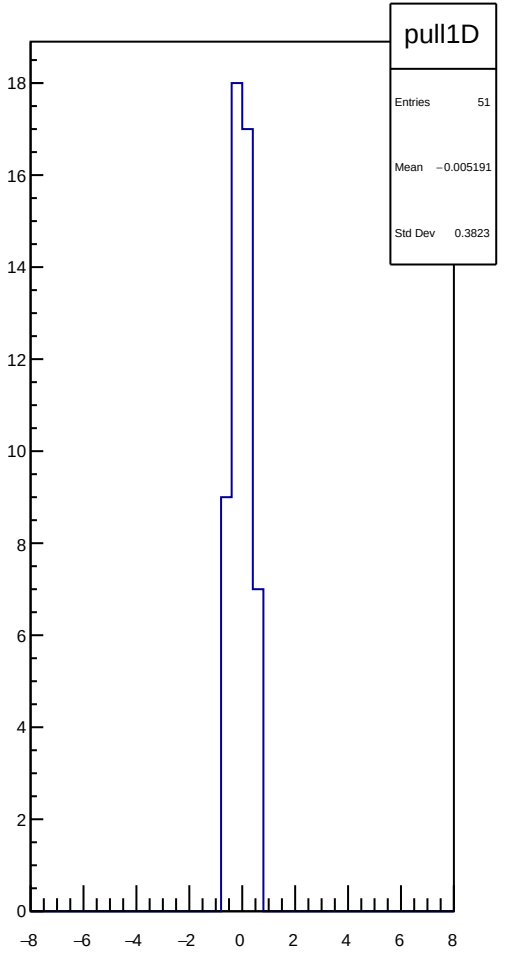

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 562.9 / 50
p0 −167.4 ± 0.4883
pull
Entries 51
Mean −109.1
Std Dev 131.7

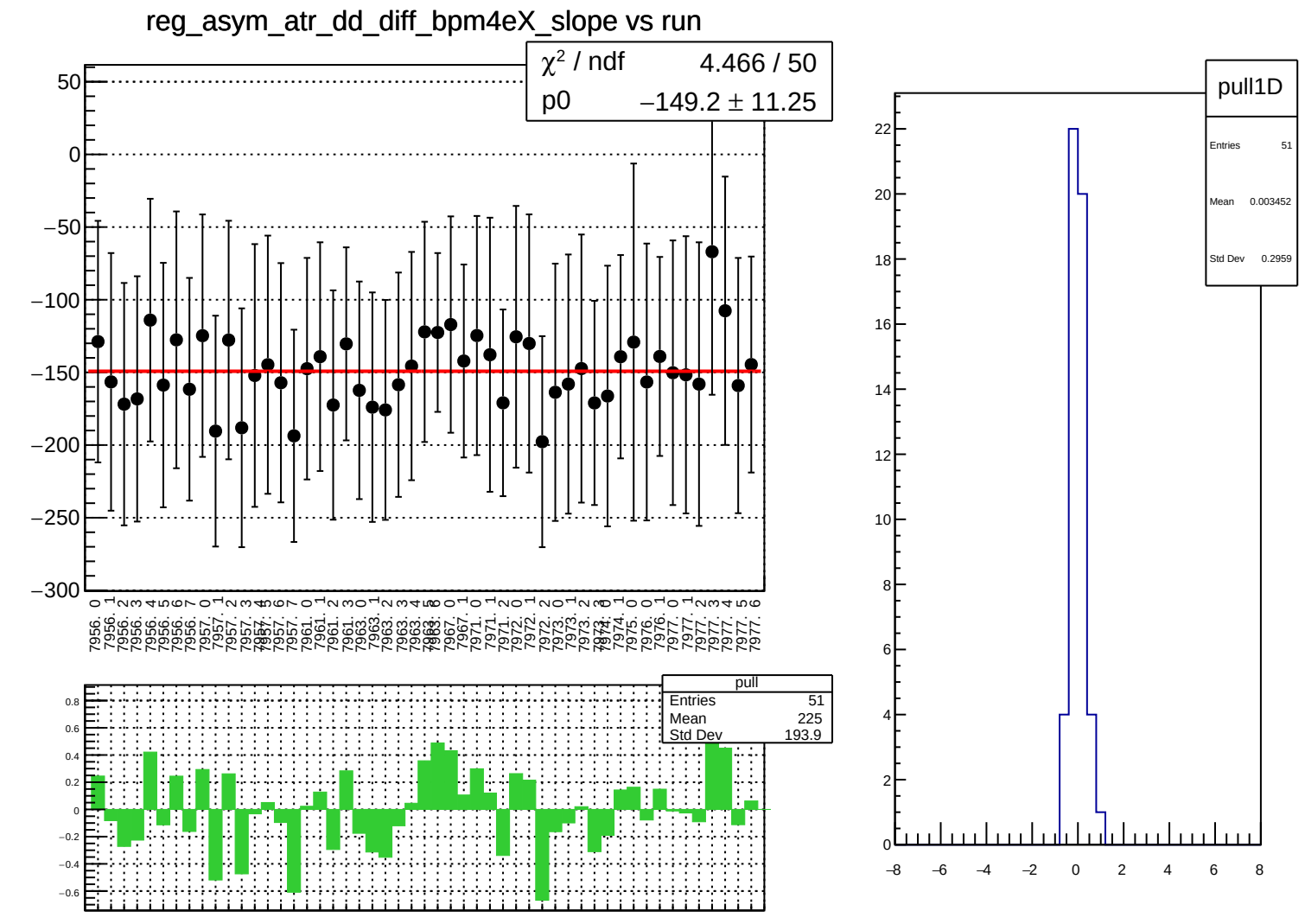

pull1D
Entries 51
Mean −0.4367
Std Dev 2.945

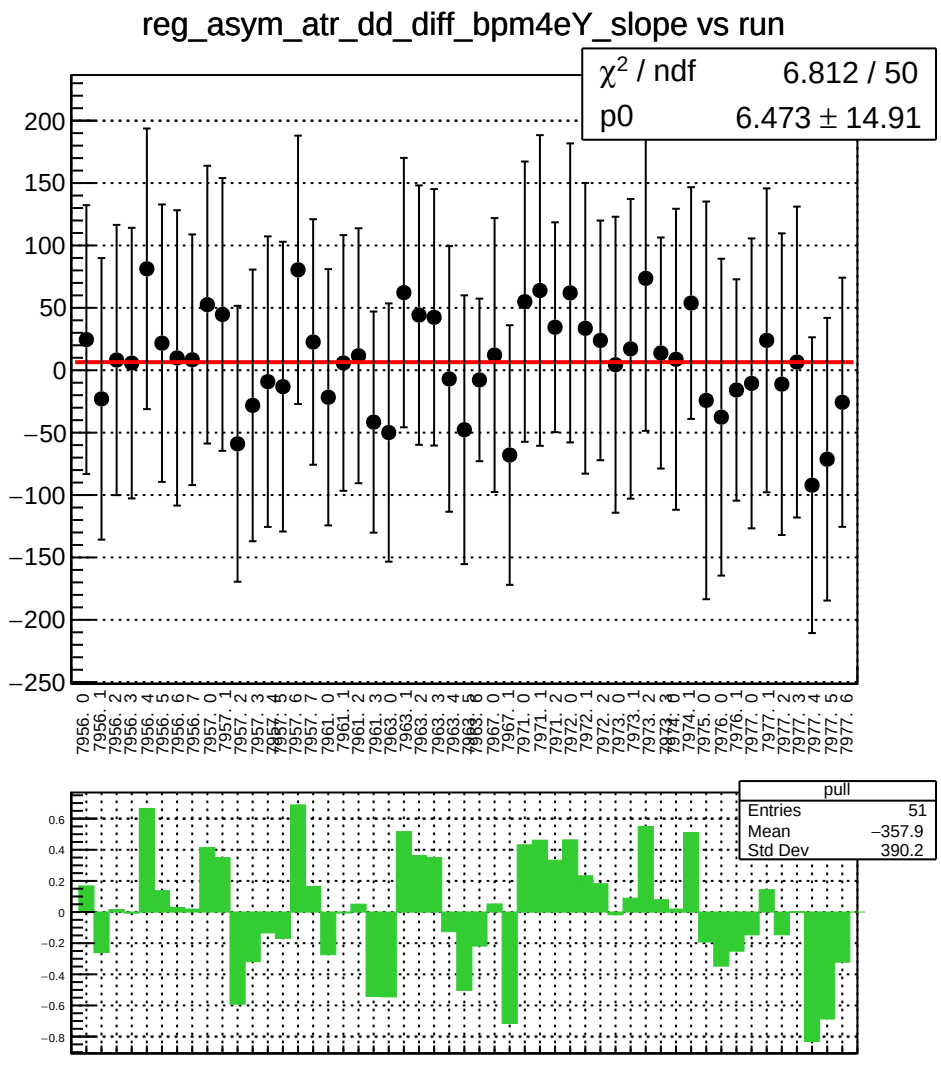

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 4.472 / 50
p0 73.59 ± 12.65
pull
Entries 51
Mean 244.6
Std Dev 214.7

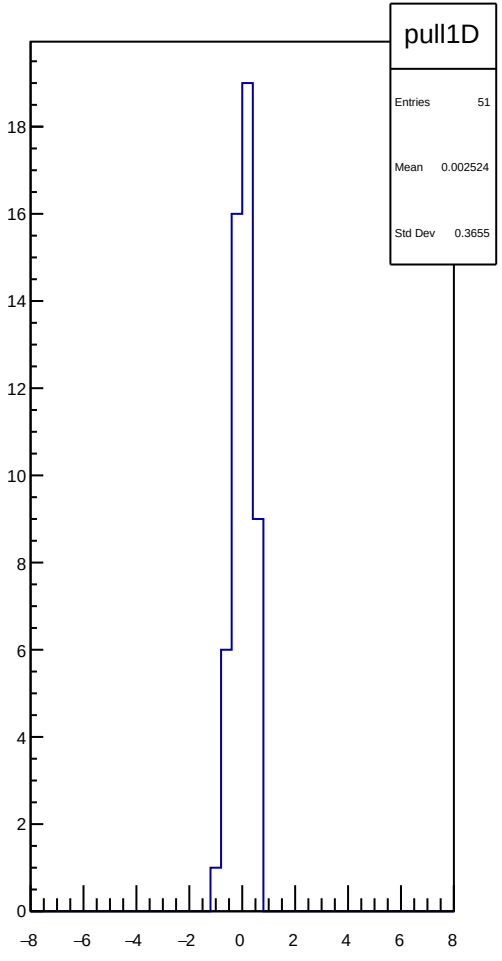

pull1D
Entries 51
Mean −0.004059
Std Dev 0.2961

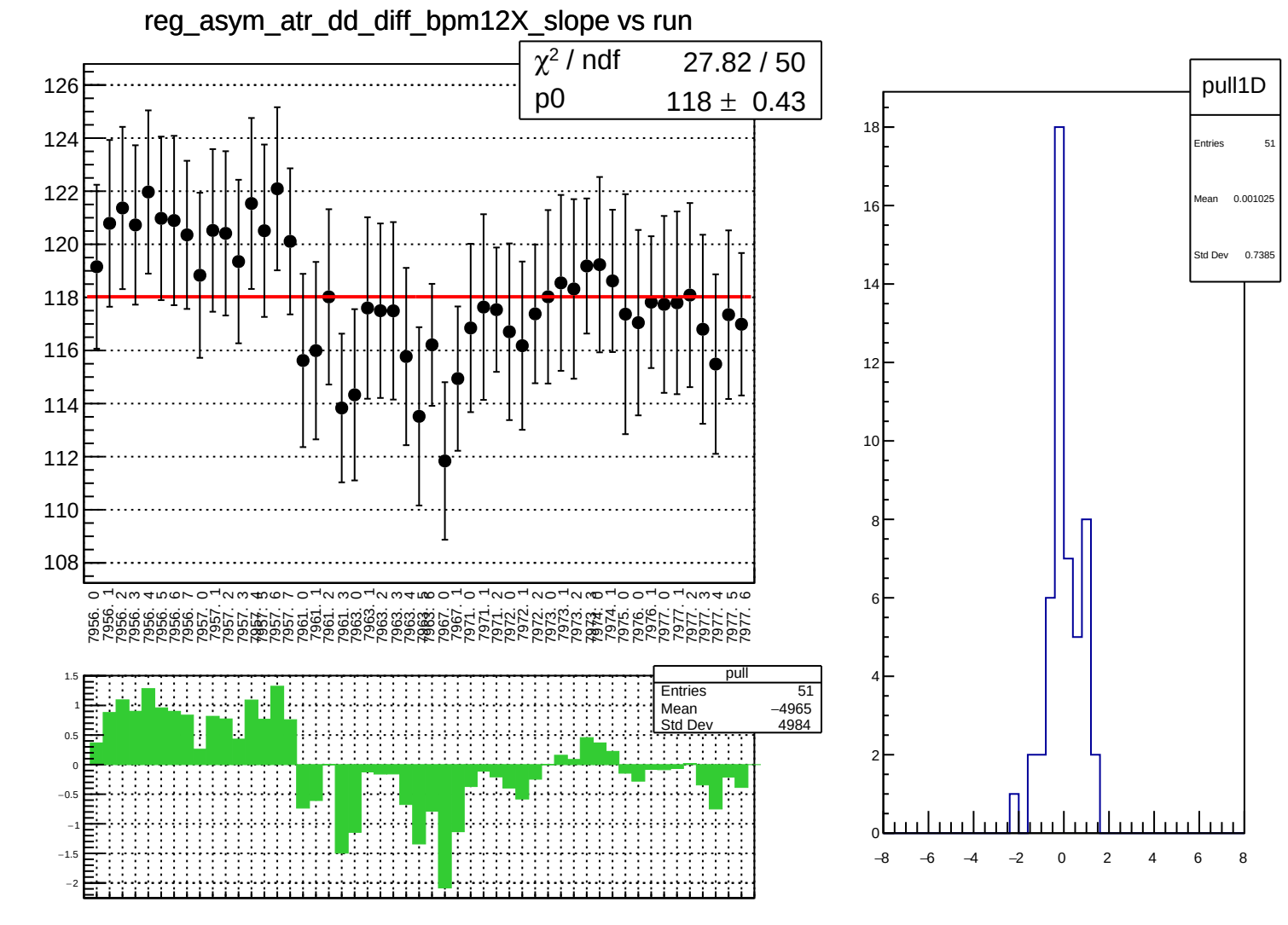

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.455 / 50
p0 −50.28 ± 13.02
pull
Entries 51
Mean −62.96
Std Dev 97.55

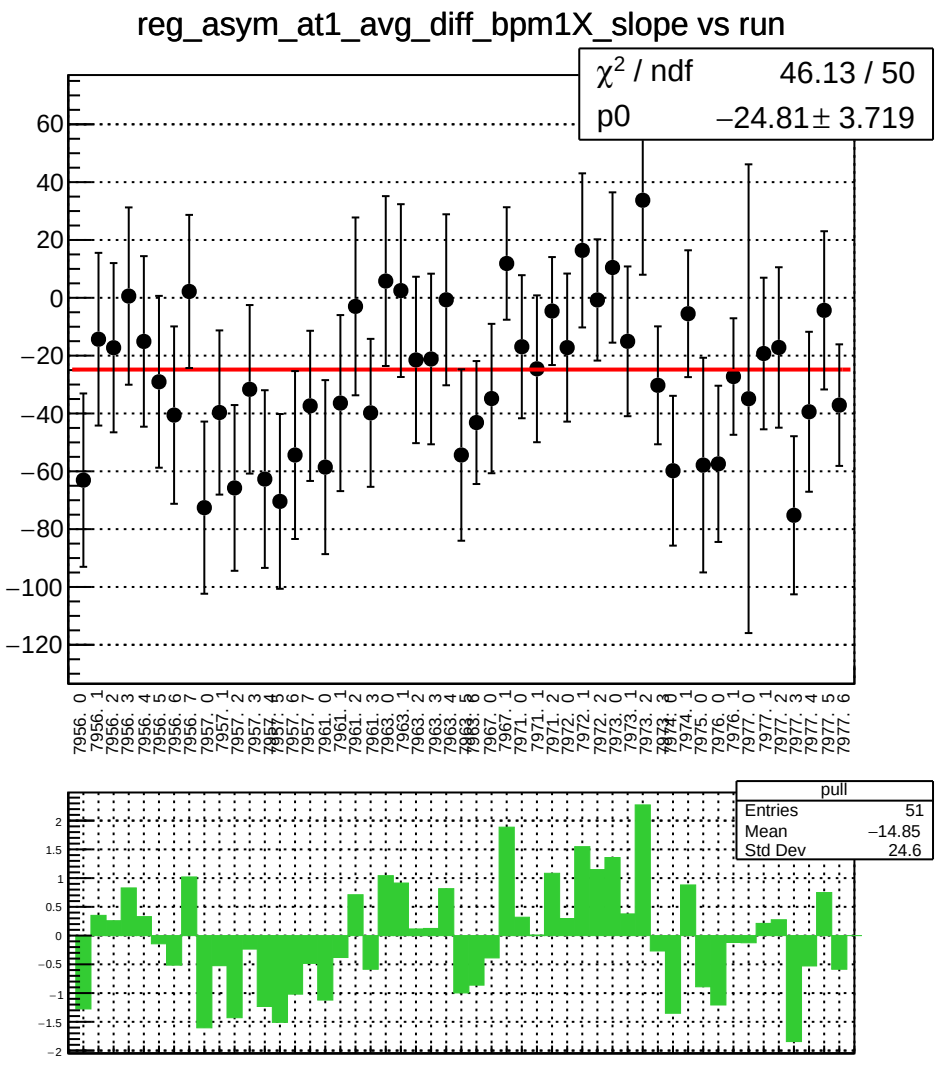

pull1D
Entries 51
Mean −0.005191
Std Dev 0.3823

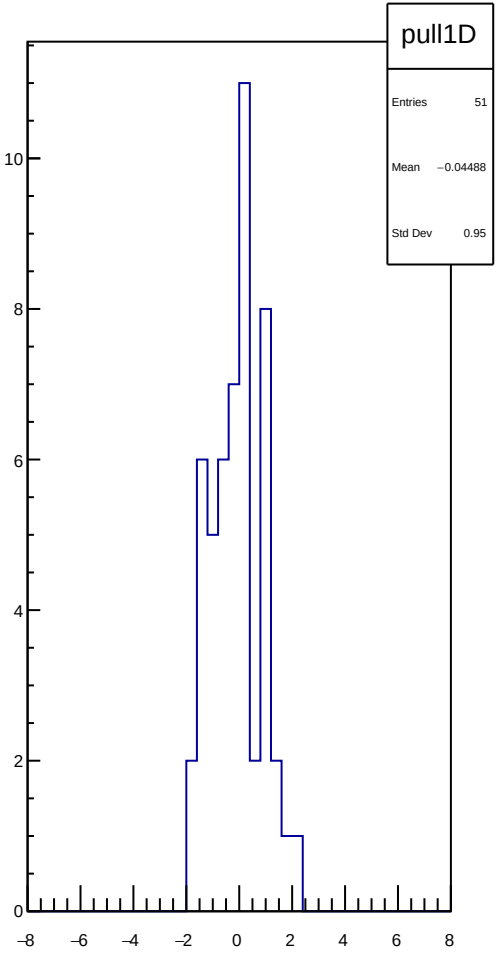

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.466 / 50
p0 −149.2 ± 11.25
pull
Entries 51
Mean 225
Std Dev 193.9
pull1D
Entries 51
Mean 0.003452
Std Dev 0.2959

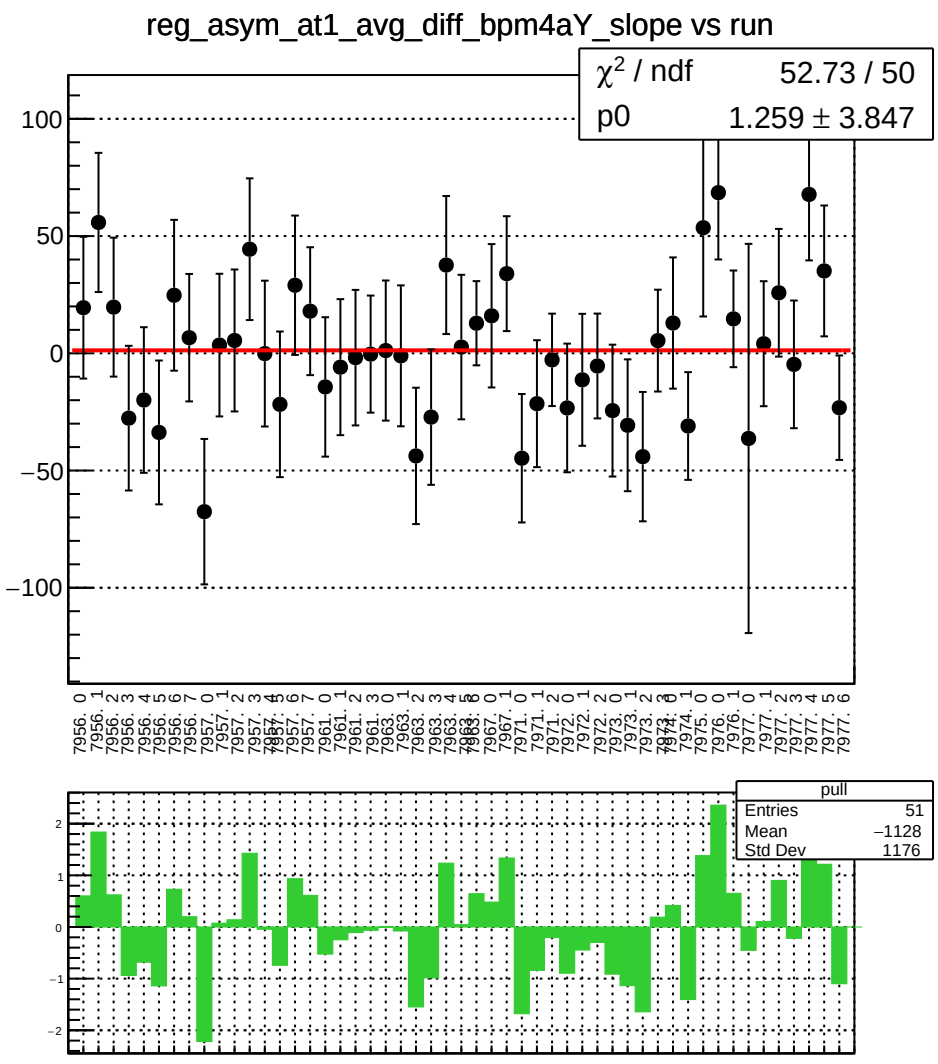

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.812 / 50
p0 6.473 ± 14.91
pull
Entries 51
Mean −357.9
Std Dev 390.2

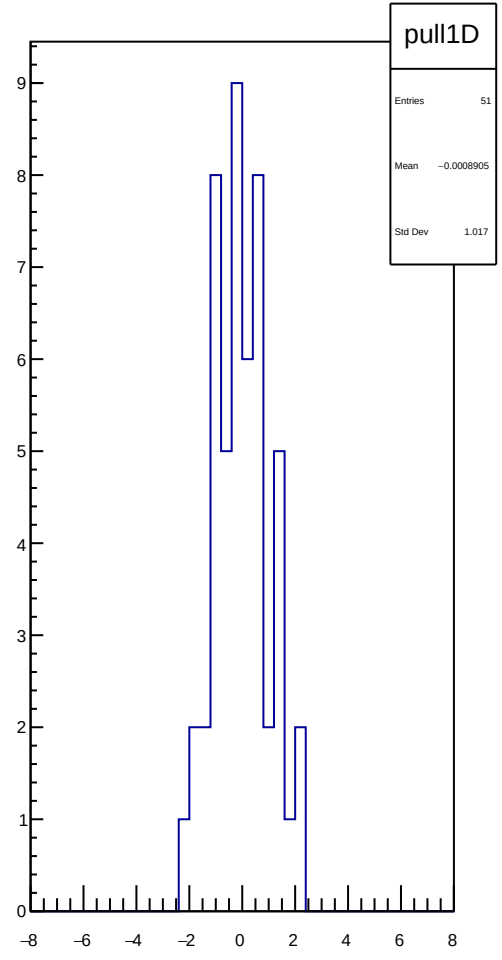

pull1D
Entries 51
Mean 0.002524
Std Dev 0.3655

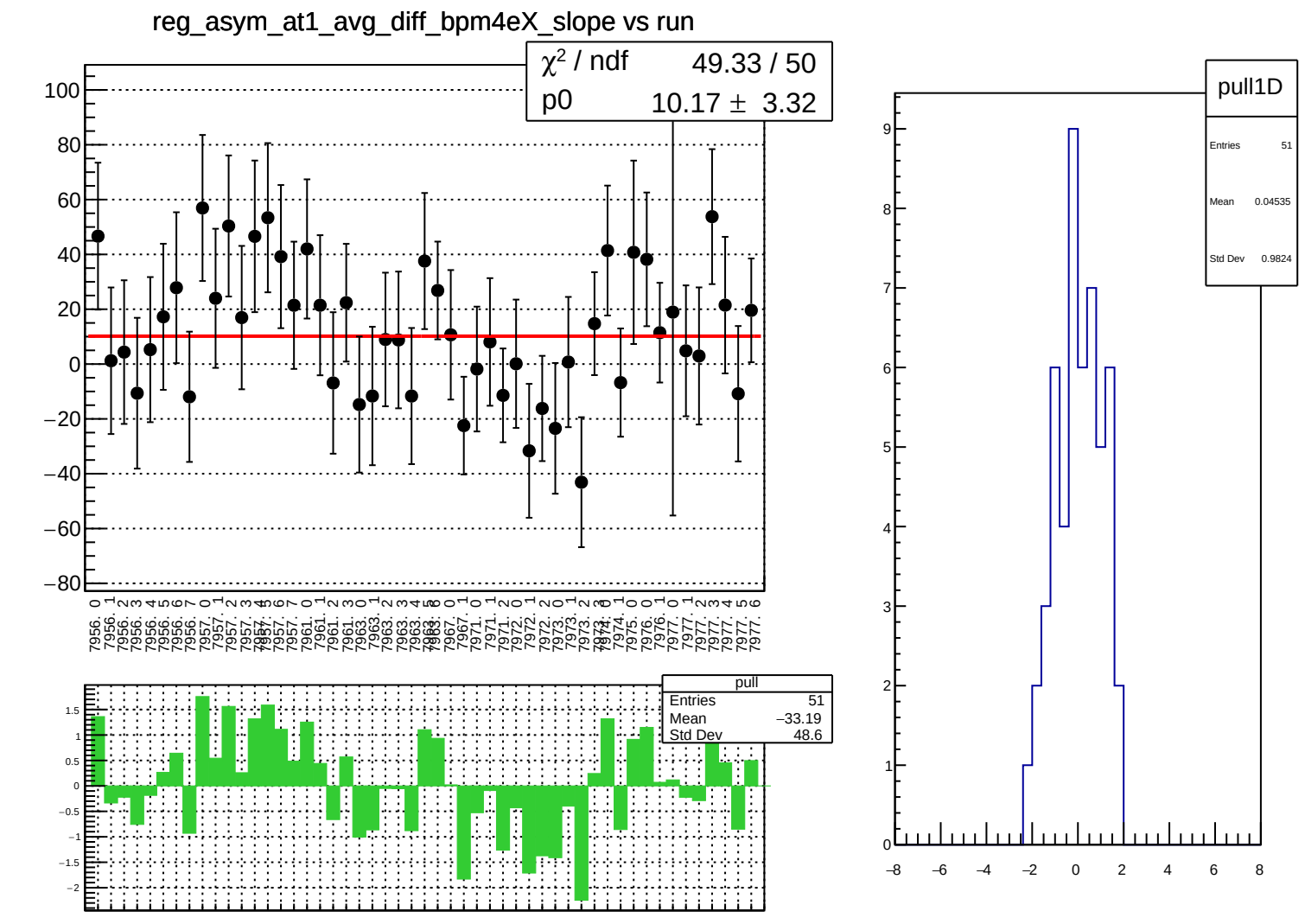

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 27.82 / 50
p0 118 ± 0.43
pull
Entries 51
Mean −4965
Std Dev 4984
pull1D
Entries 51
Mean 0.001025
Std Dev 0.7385

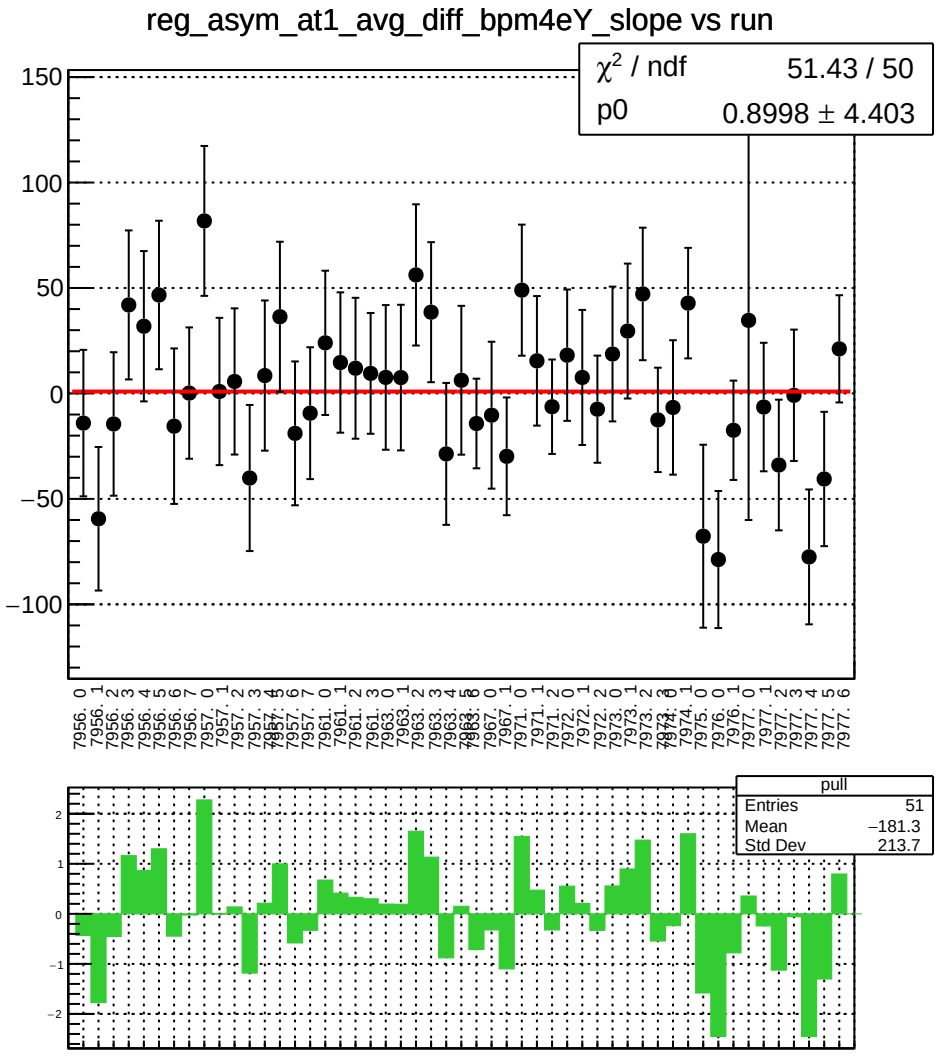

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 46.13 / 50
p0 −24.81 ± 3.719
pull
Entries 51
Mean −14.85
Std Dev 24.6

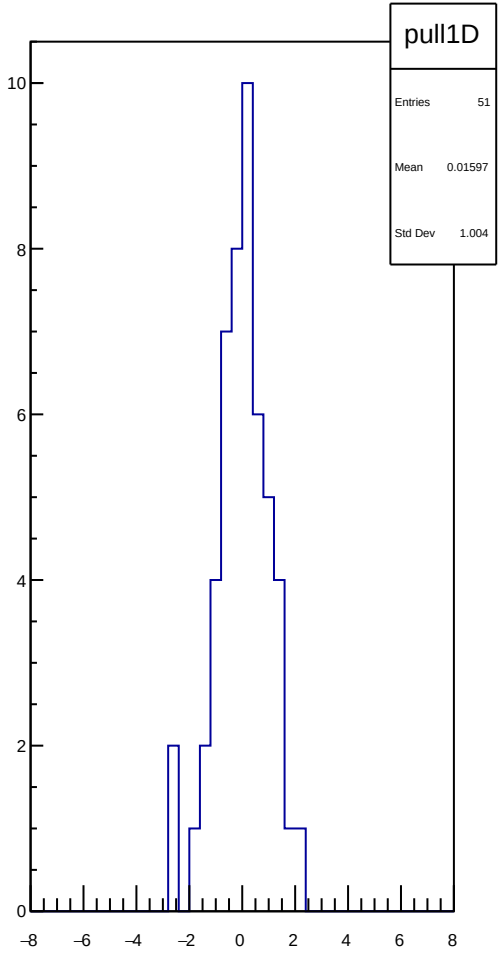

pull1D
Entries 51
Mean −0.04488
Std Dev 0.95

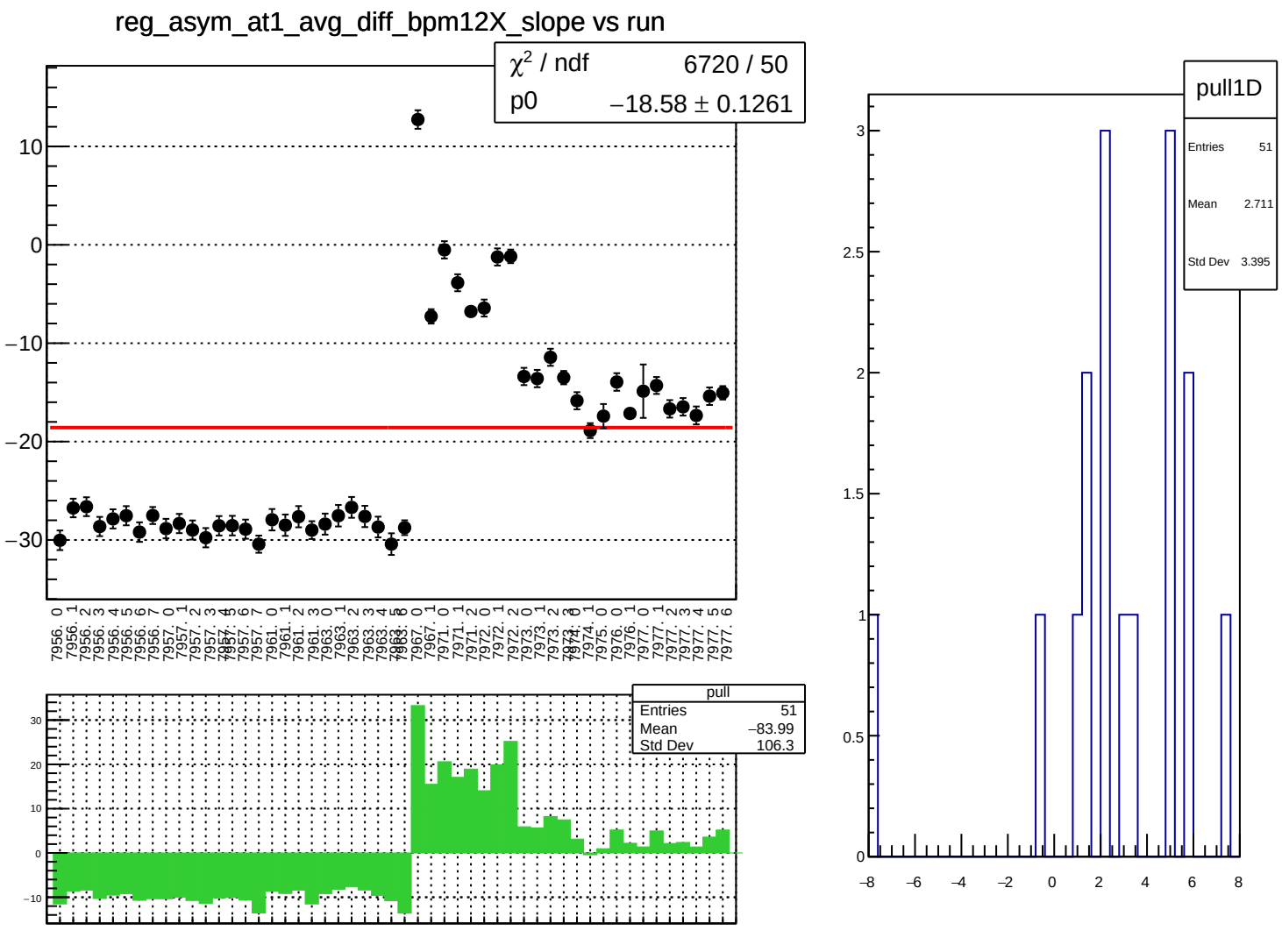

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.73 / 50
p0 1.259 ± 3.847
100
50
0
−50
−100
pull
Entries 51
Mean −1128
Std Dev 1176
2
1
0
−1
−2

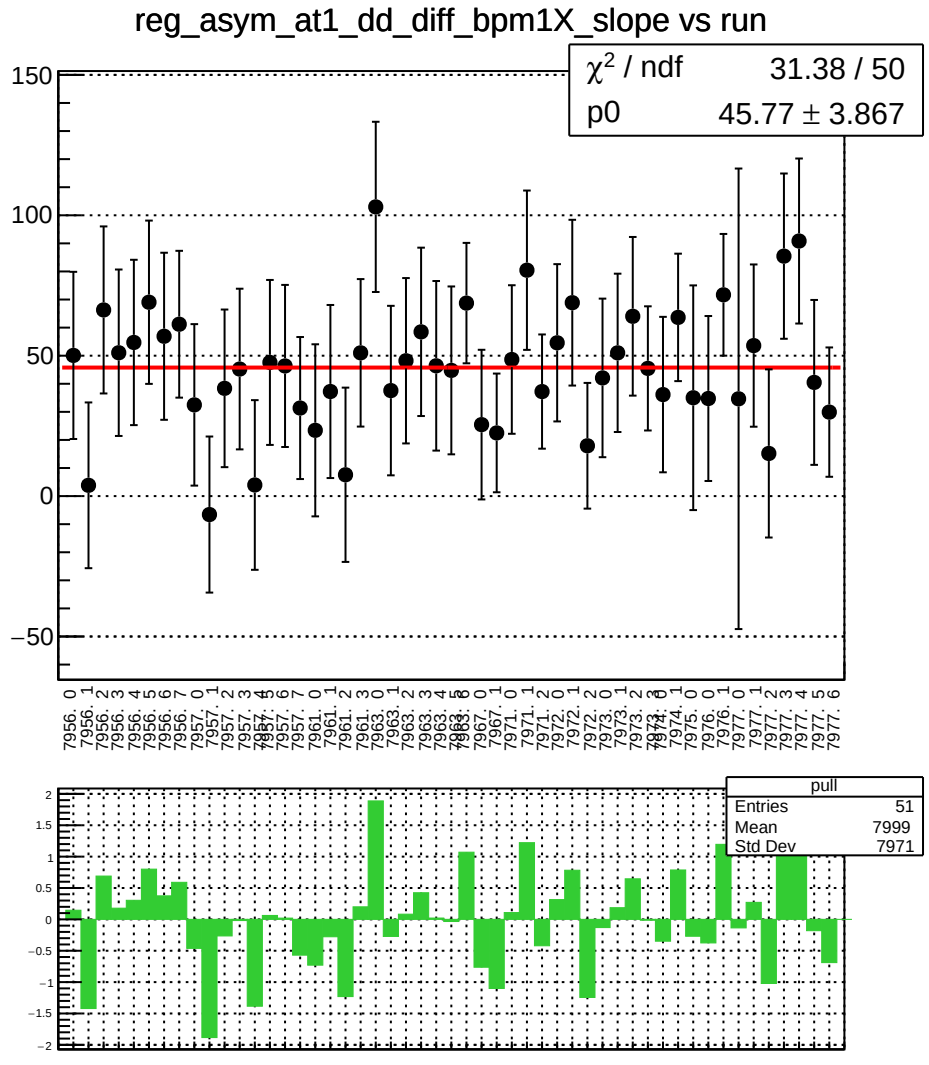

pull1D
Entries 51
Mean −0.0008905
Std Dev 1.017
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

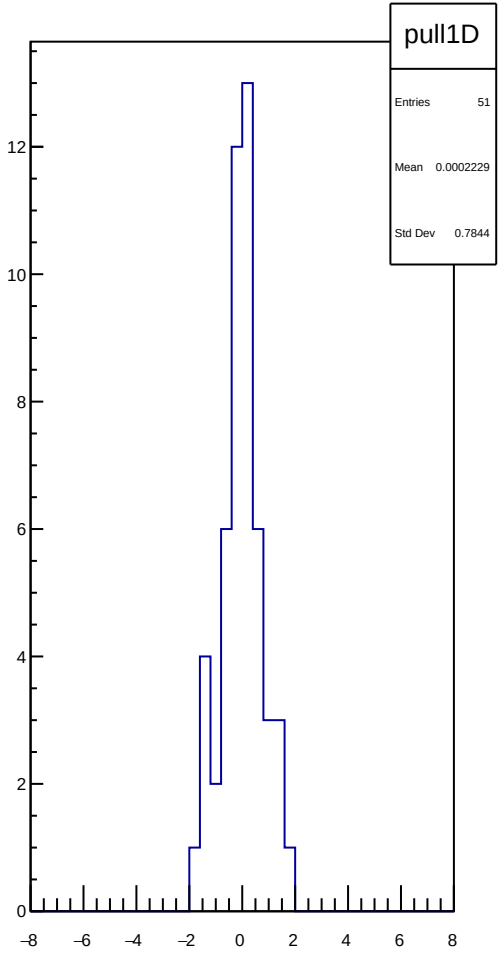

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.33 / 50
p0 10.17 ± 3.32
pull
Entries 51
Mean −33.19
Std Dev 48.6
pull1D
Entries 51
Mean 0.04535
Std Dev 0.9824

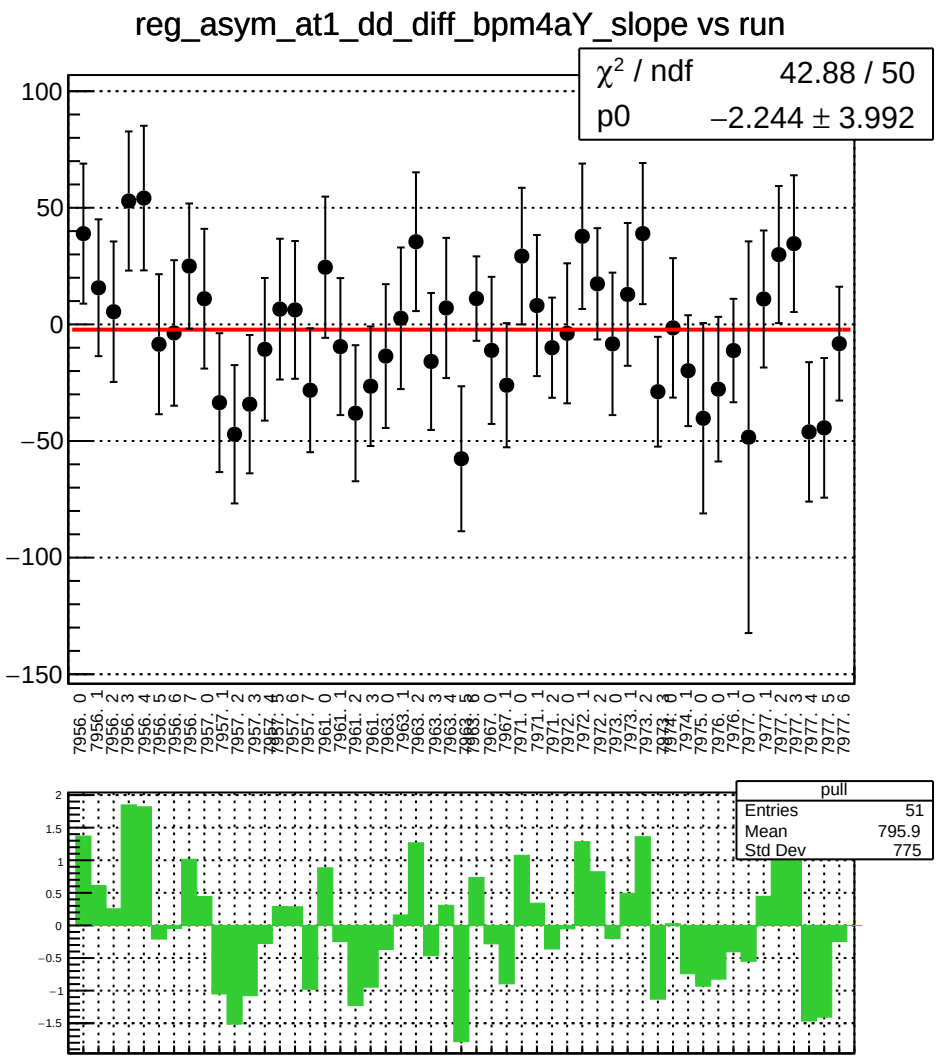

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 51.43 / 50
p0 0.8998 ± 4.403
150
100
50
0
−50
−100
pull
Entries 51
Mean −181.3
Std Dev 213.7
2
1
0
−1
−2

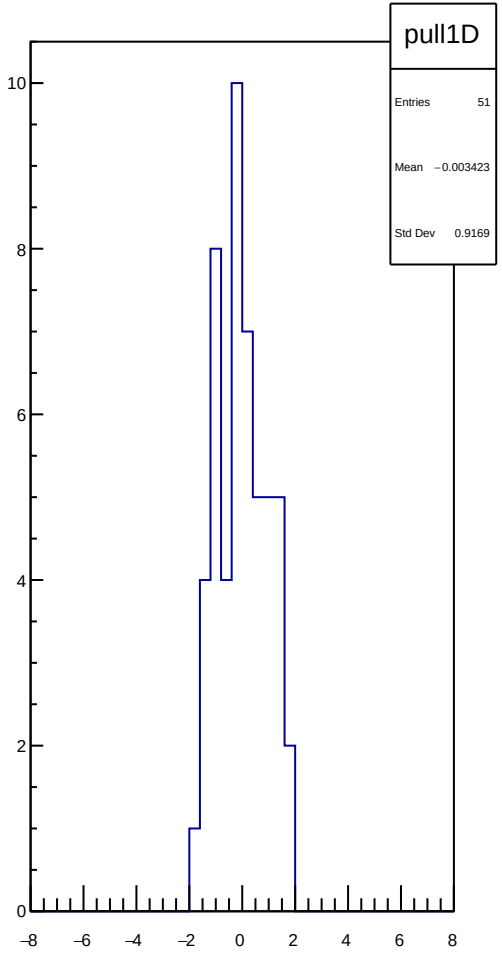

pull1D
Entries 51
Mean 0.01597
Std Dev 1.004
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

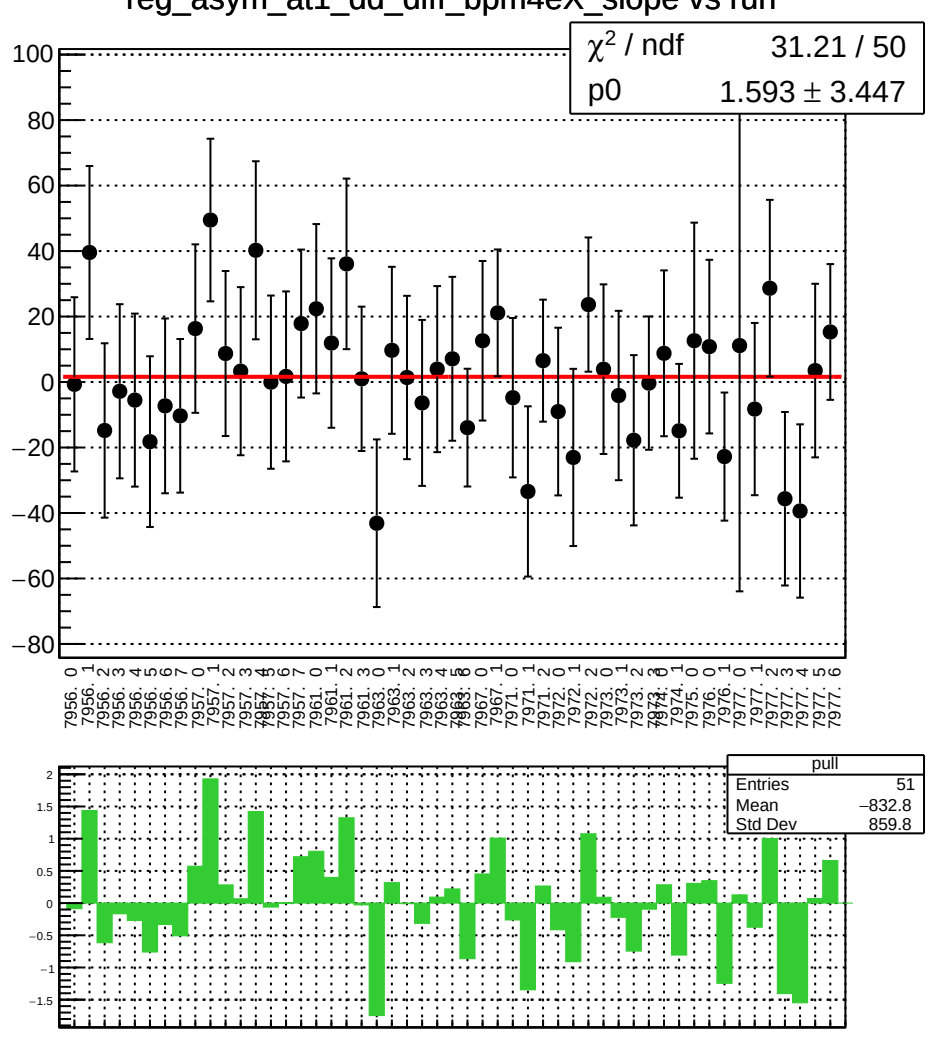

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 6720 / 50
p0 −18.58 ± 0.1261
pull
Entries 51
Mean −83.99
Std Dev 106.3
pull1D
Entries 51
Mean 2.711
Std Dev 3.395

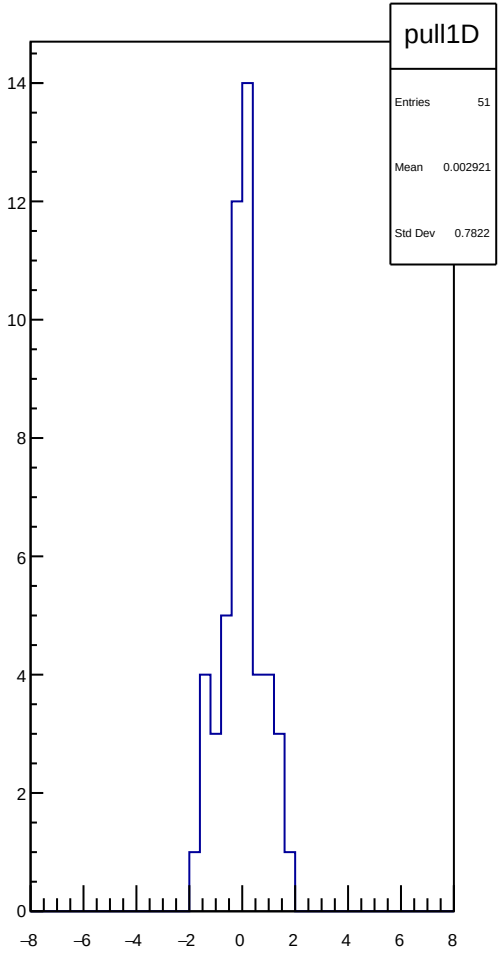

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ^2 / ndf 31.38 / 50
p0 45.77 ± 3.867
150
100
50
0
−50
pull
Entries 51
Mean 7999
Std Dev 7971
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

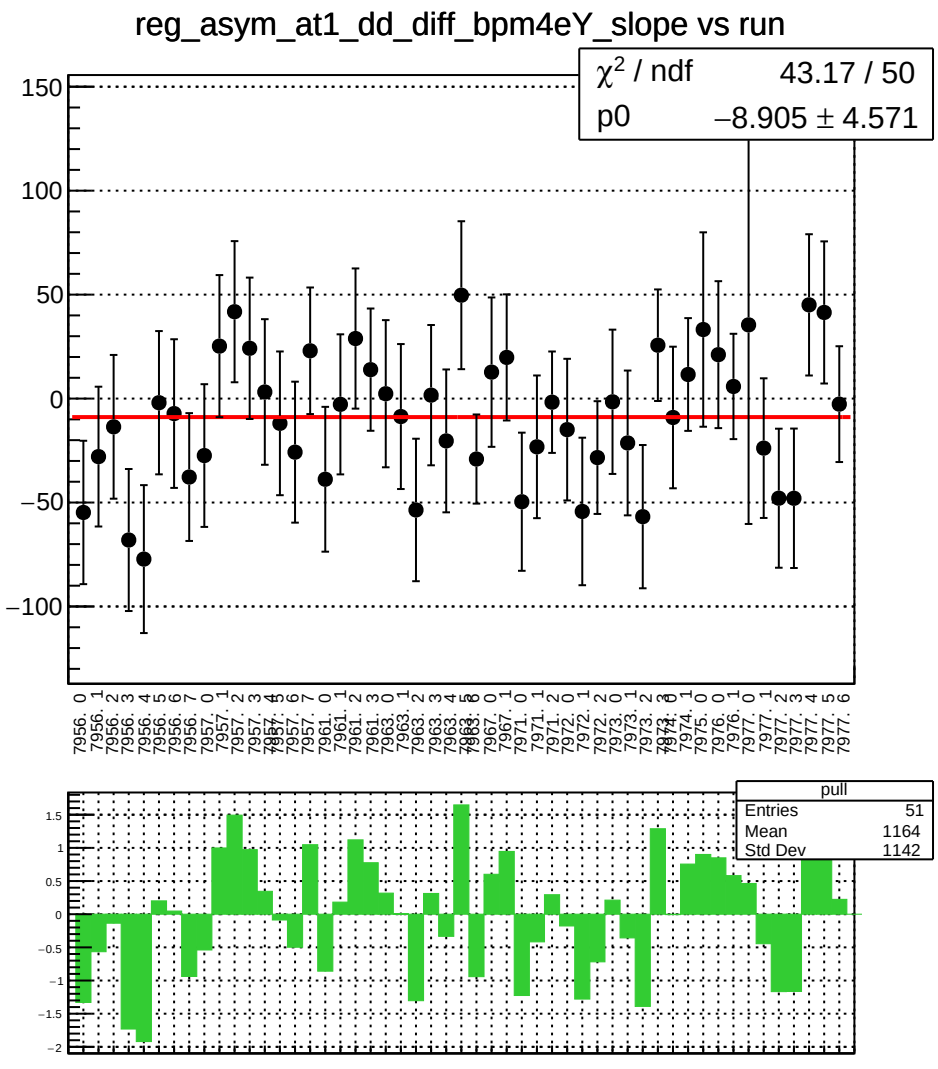

pull1D
Entries 51
Mean 0.0002229
Std Dev 0.7844
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

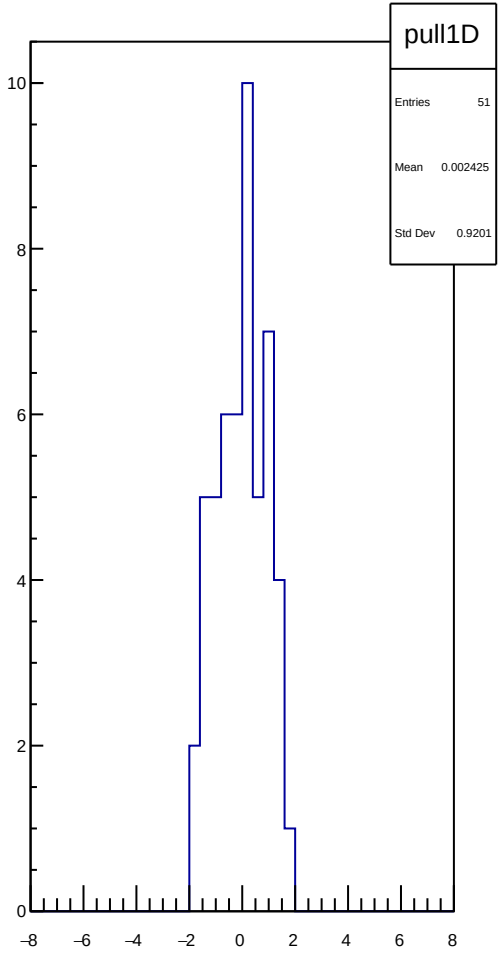

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 42.88 / 50
p0 −2.244 ± 3.992
pull
Entries 51
Mean 795.9
Std Dev 775

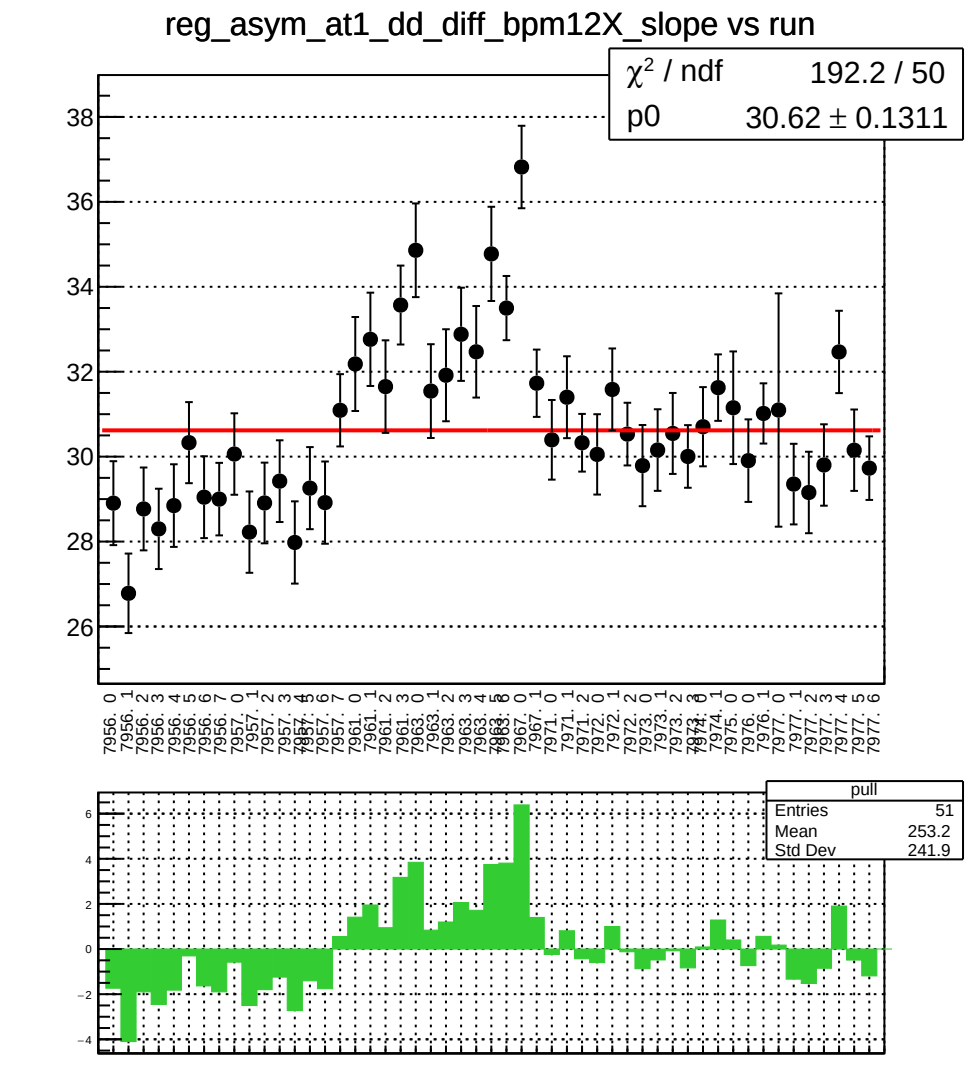

pull1D
Entries 51
Mean −0.003423
Std Dev 0.9169

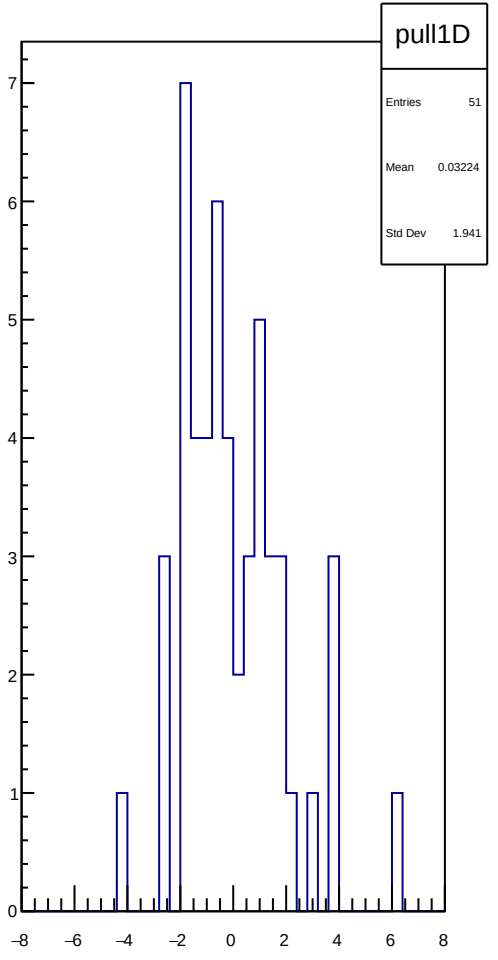

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.21 / 50
p0 1.593 ± 3.447
pull
Entries 51
Mean −832.8
Std Dev 859.8

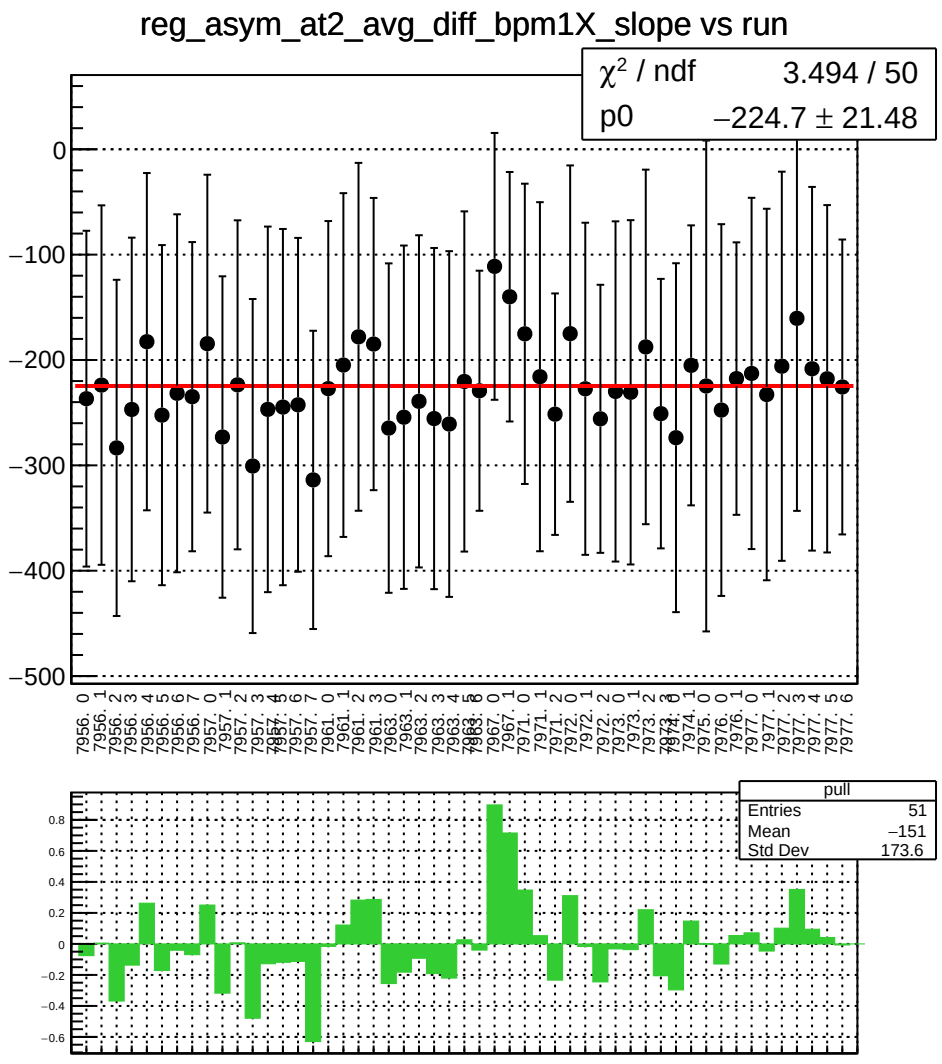

pull1D
Entries 51
Mean 0.002921
Std Dev 0.7822

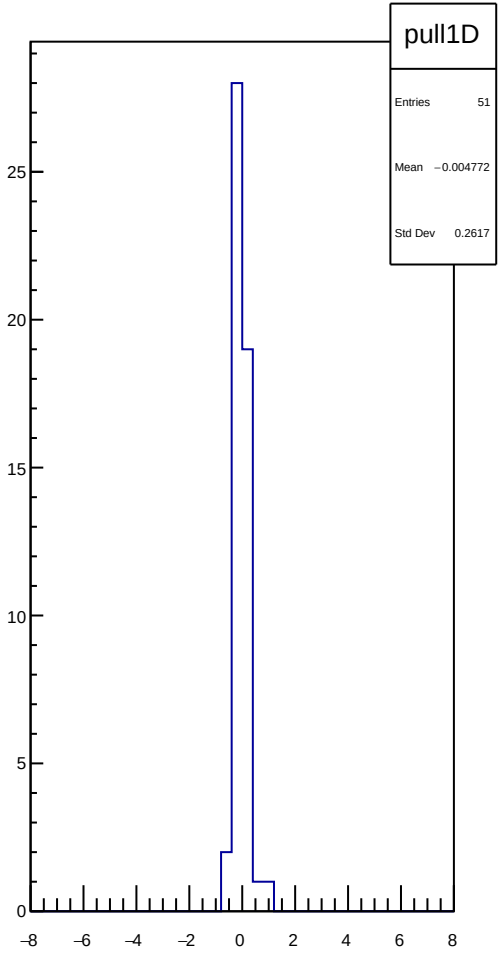

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.17 / 50
p0 −8.905 ± 4.571
pull
Entries 51
Mean 1164
Std Dev 1142

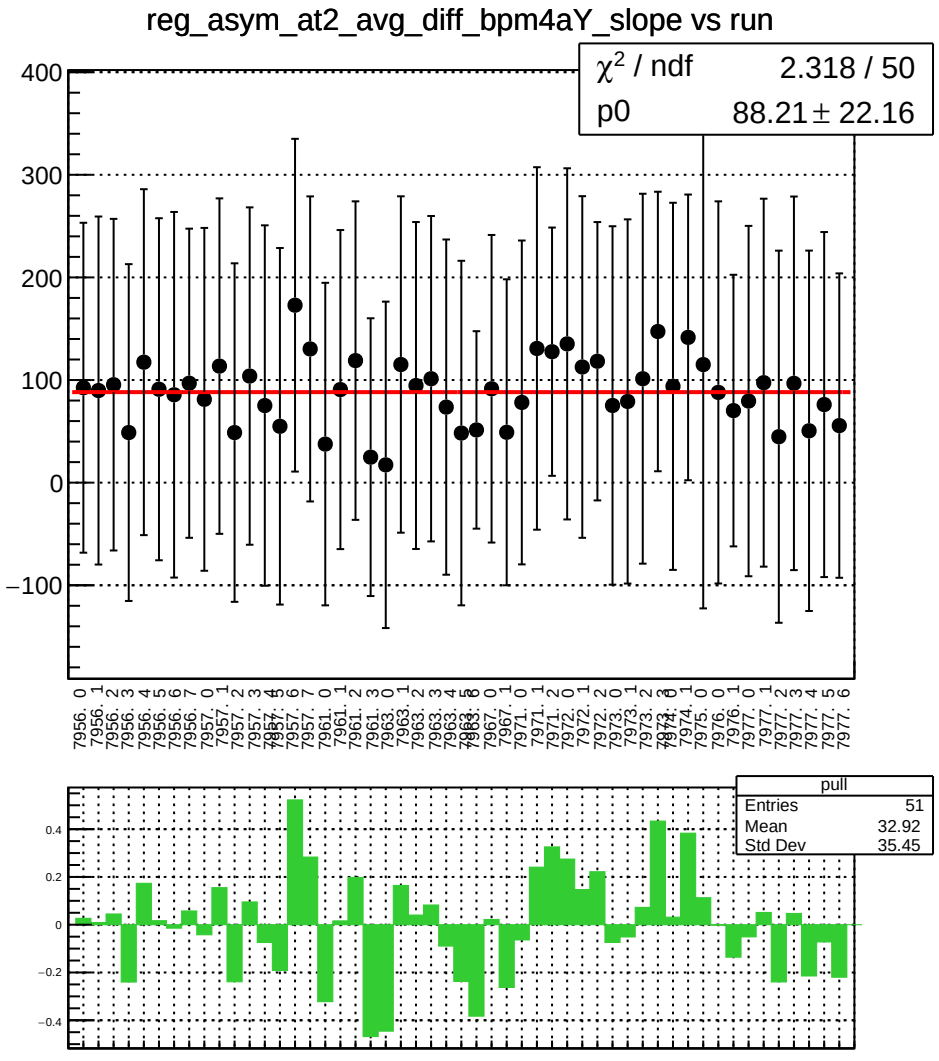

pull1D
Entries 51
Mean 0.002425
Std Dev 0.9201

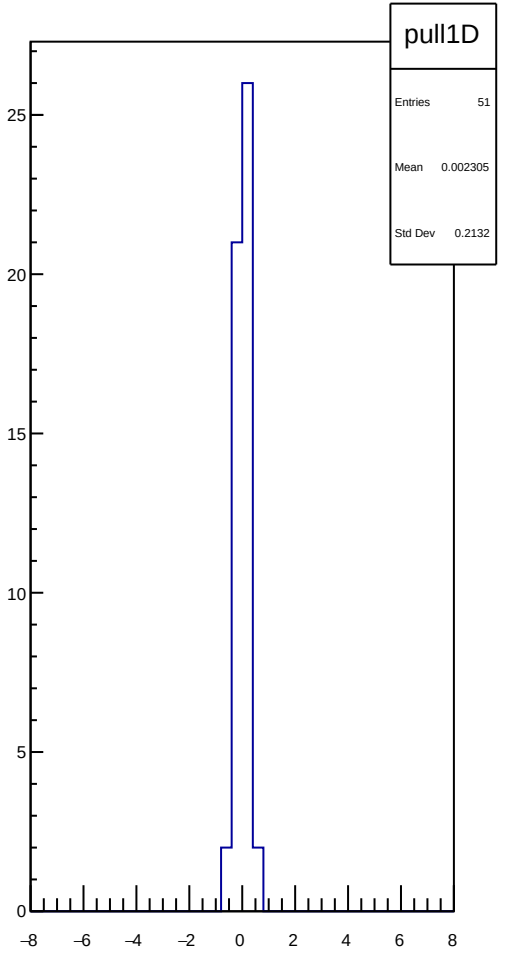

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 192.2 / 50
p0 30.62 ± 0.1311
pull
Entries 51
Mean 253.2
Std Dev 241.9

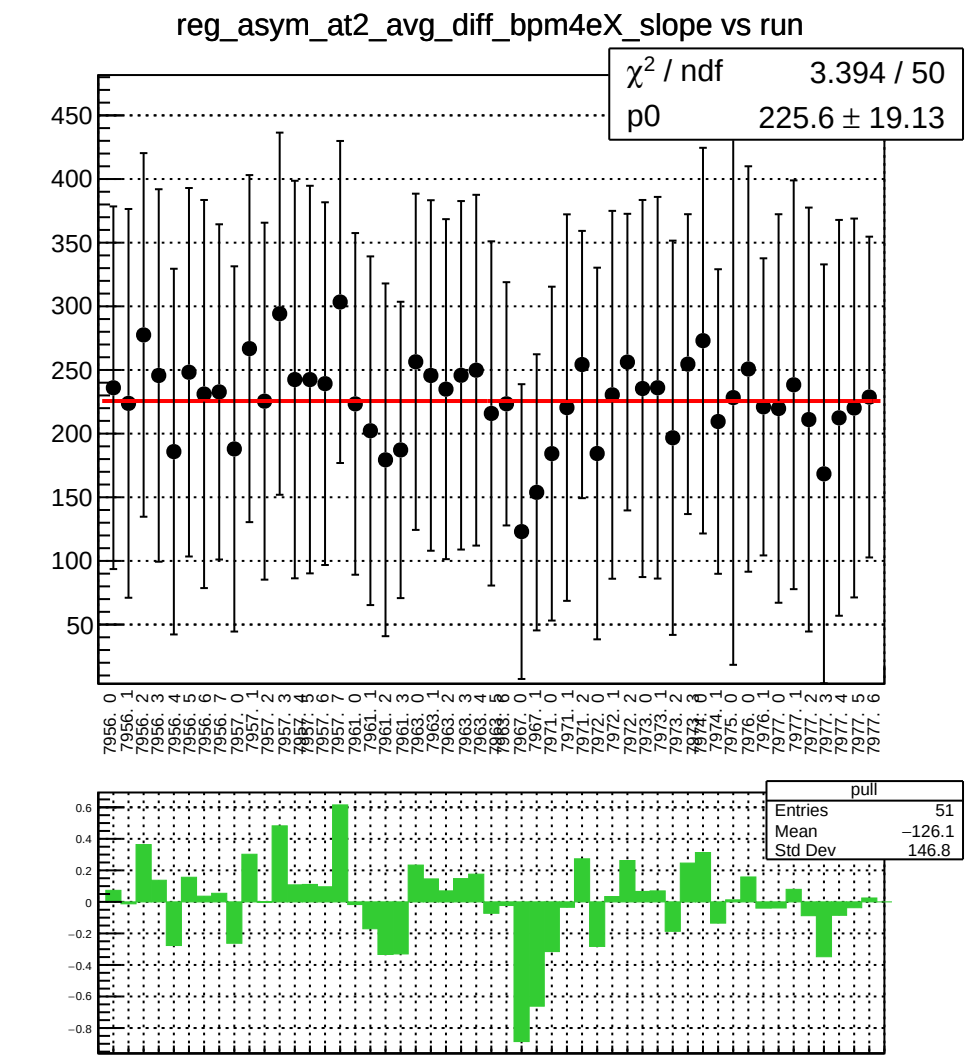

pull1D
Entries 51
Mean 0.03224
Std Dev 1.941

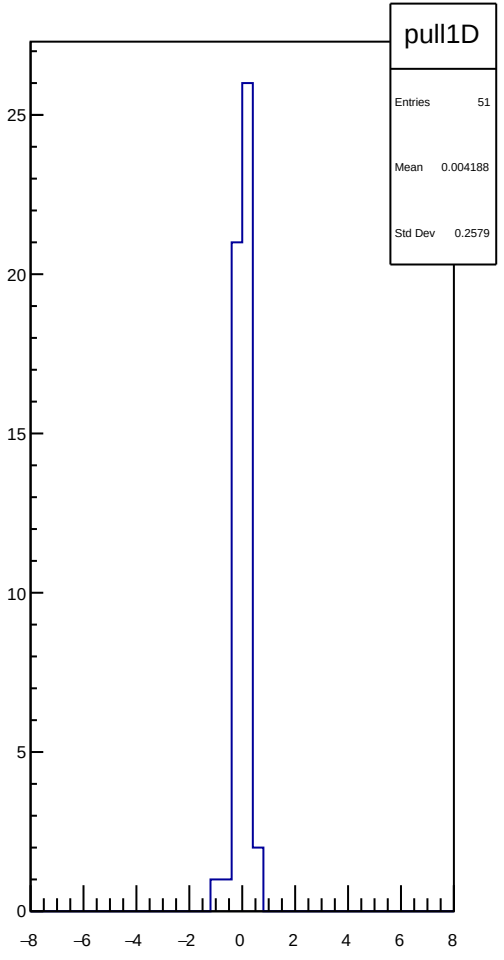

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 3.494 / 50
p0 −224.7 ± 21.48
pull
Entries 51
Mean −151
Std Dev 173.6

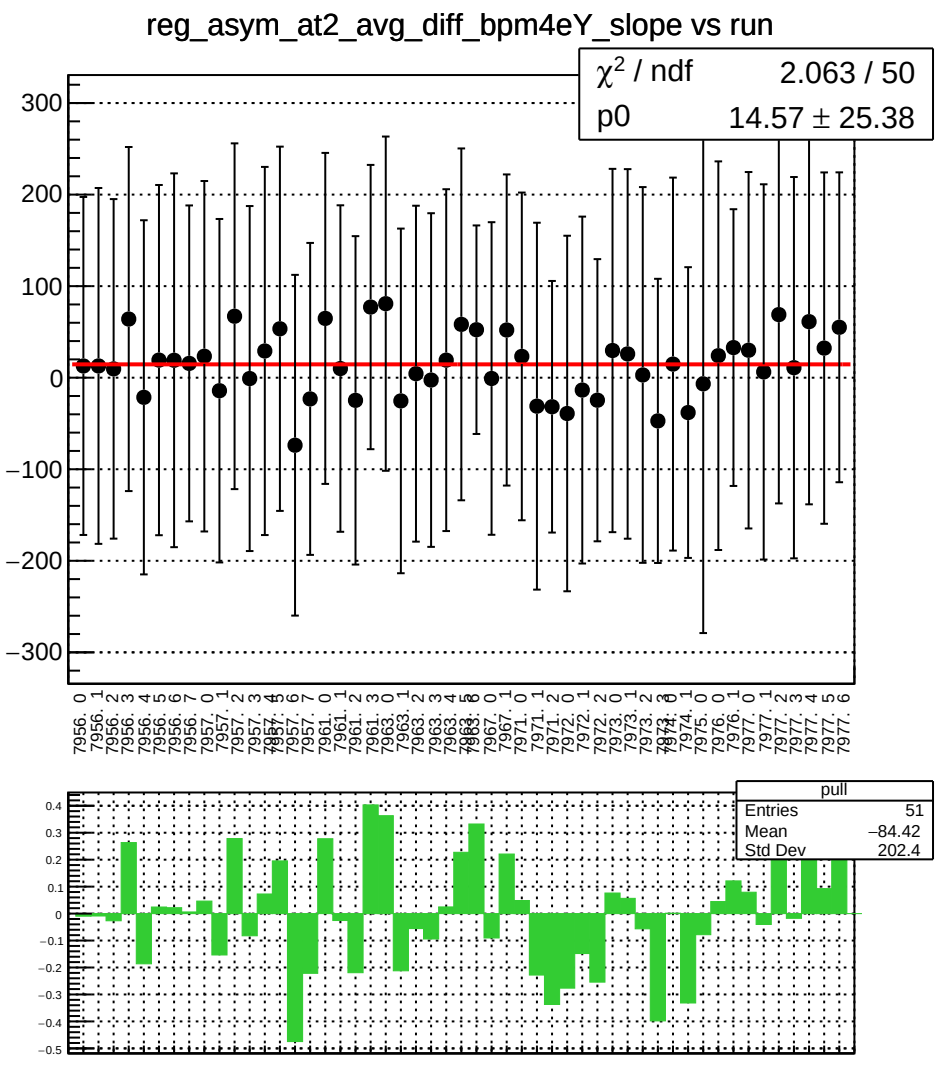

pull1D
Entries 51
Mean −0.004772
Std Dev 0.2617

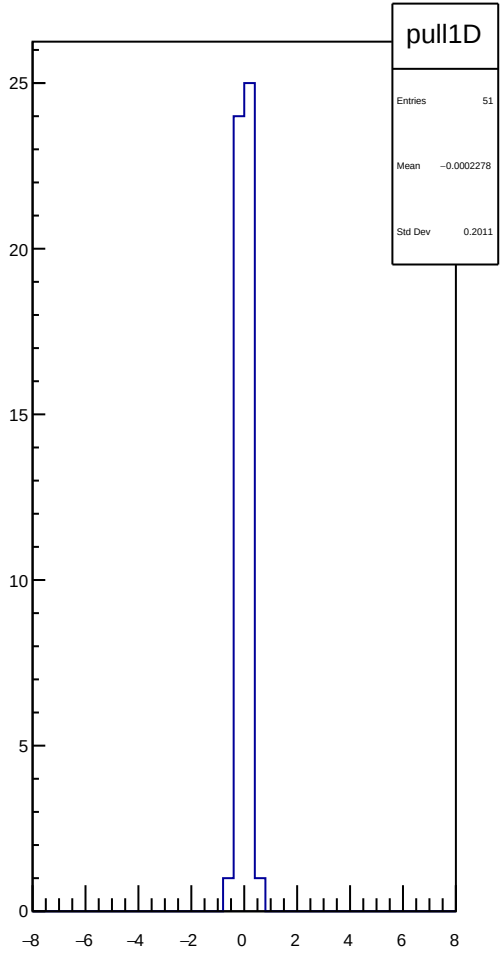

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.318 / 50
p0 88.21 ± 22.16
pull
Entries 51
Mean 32.92
Std Dev 35.45

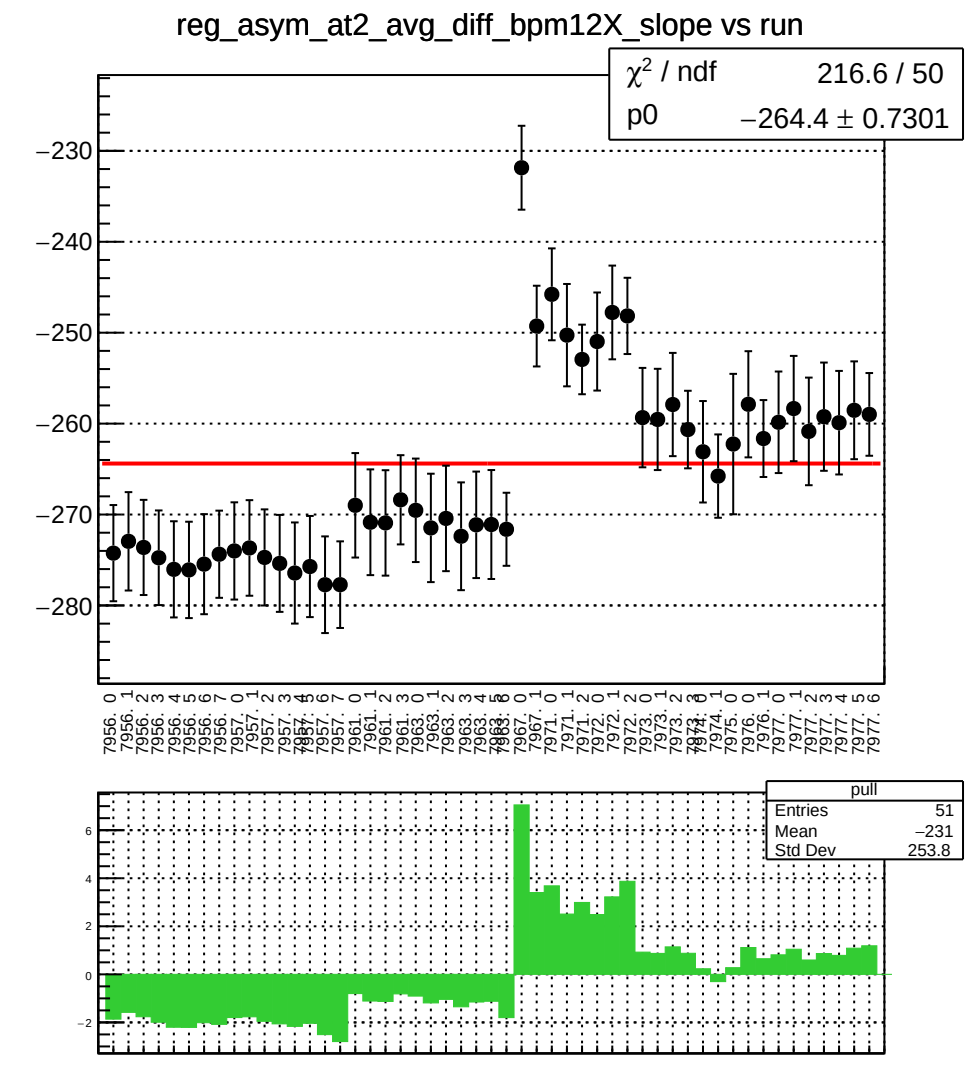

pull1D
Entries 51
Mean 0.002305
Std Dev 0.2132

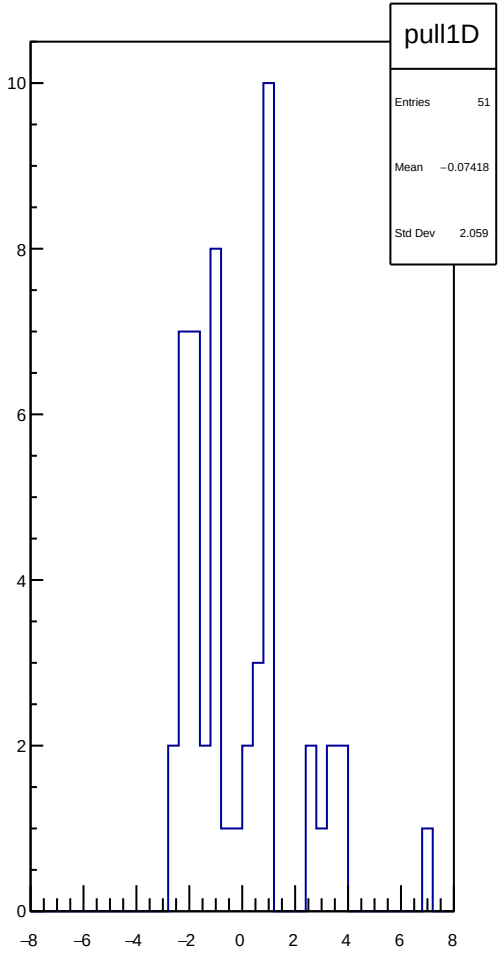

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.394 / 50
p0 225.6 ± 19.13
pull
Entries 51
Mean −126.1
Std Dev 146.8

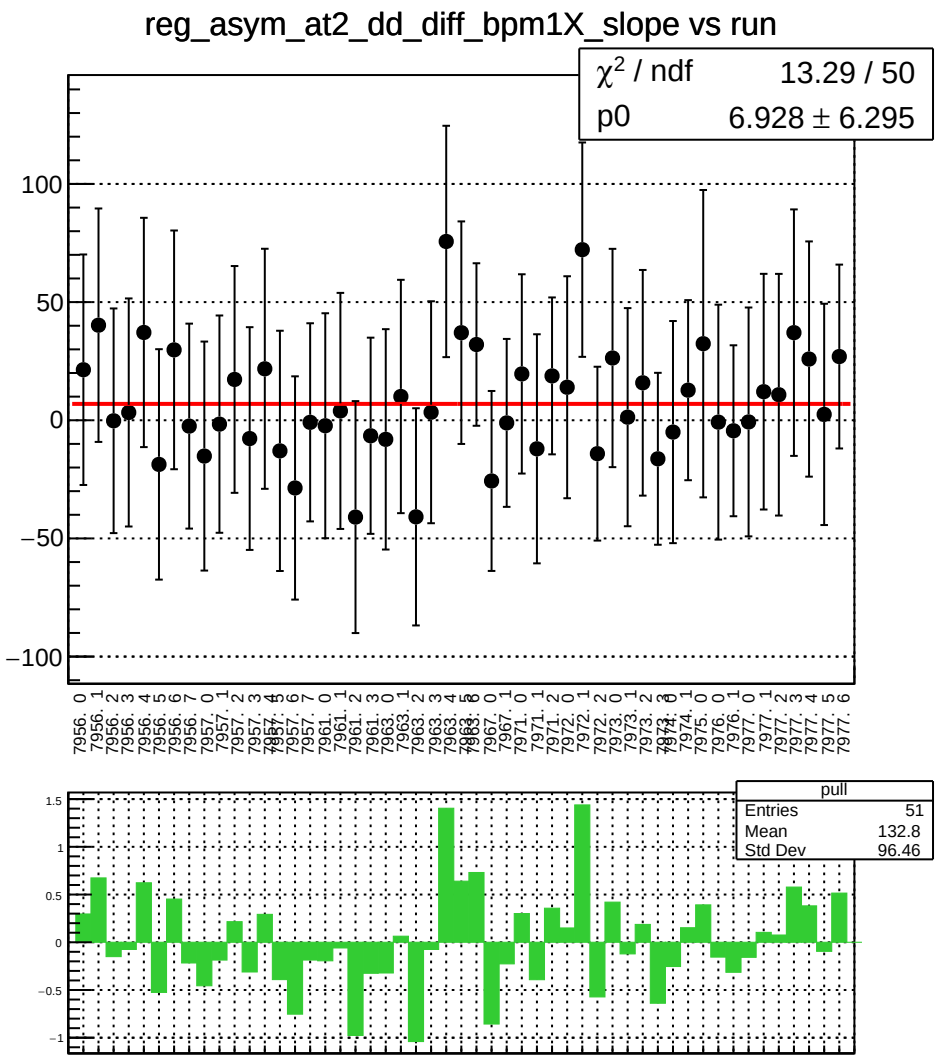

pull1D
Entries 51
Mean 0.004188
Std Dev 0.2579

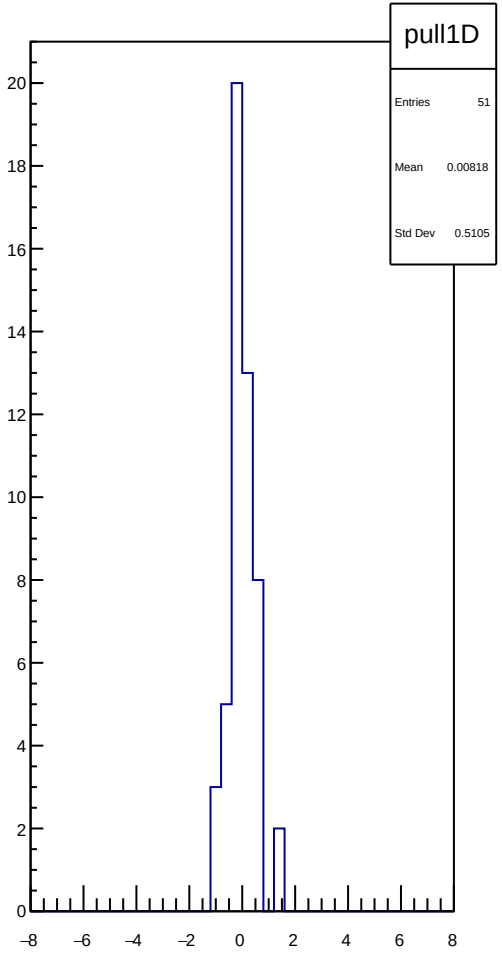

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.063 / 50
p0 14.57 ± 25.38
pull
Entries 51
Mean −84.42
Std Dev 202.4

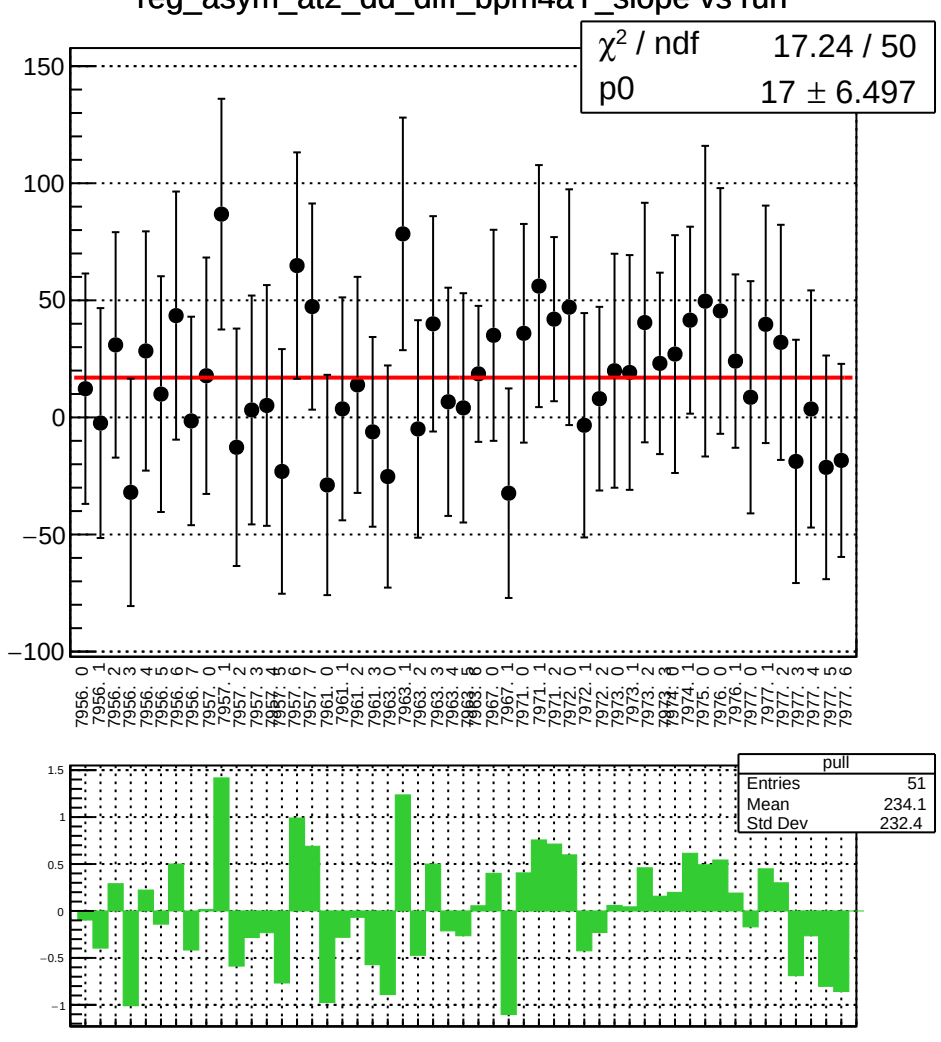

pull1D
Entries 51
Mean −0.0002278
Std Dev 0.2011

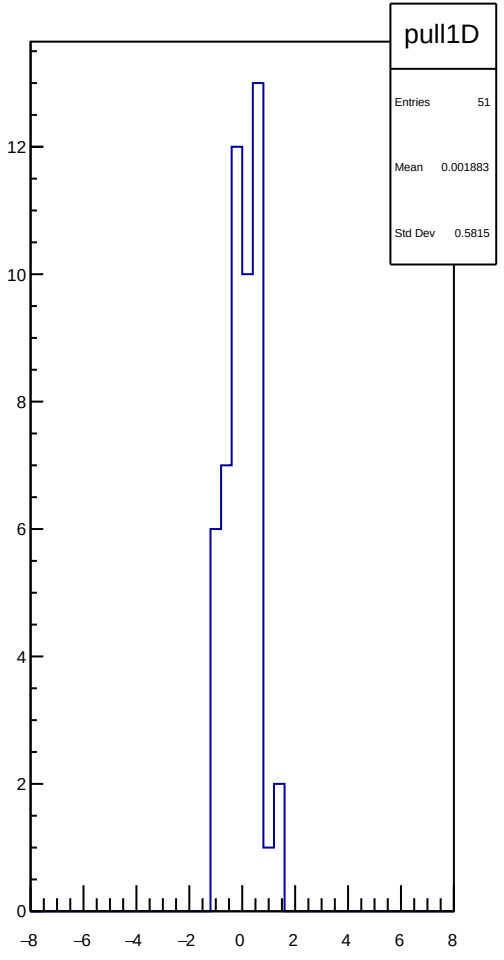

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 216.6 / 50
p0 −264.4 ± 0.7301
pull
Entries 51
Mean −231
Std Dev 253.8

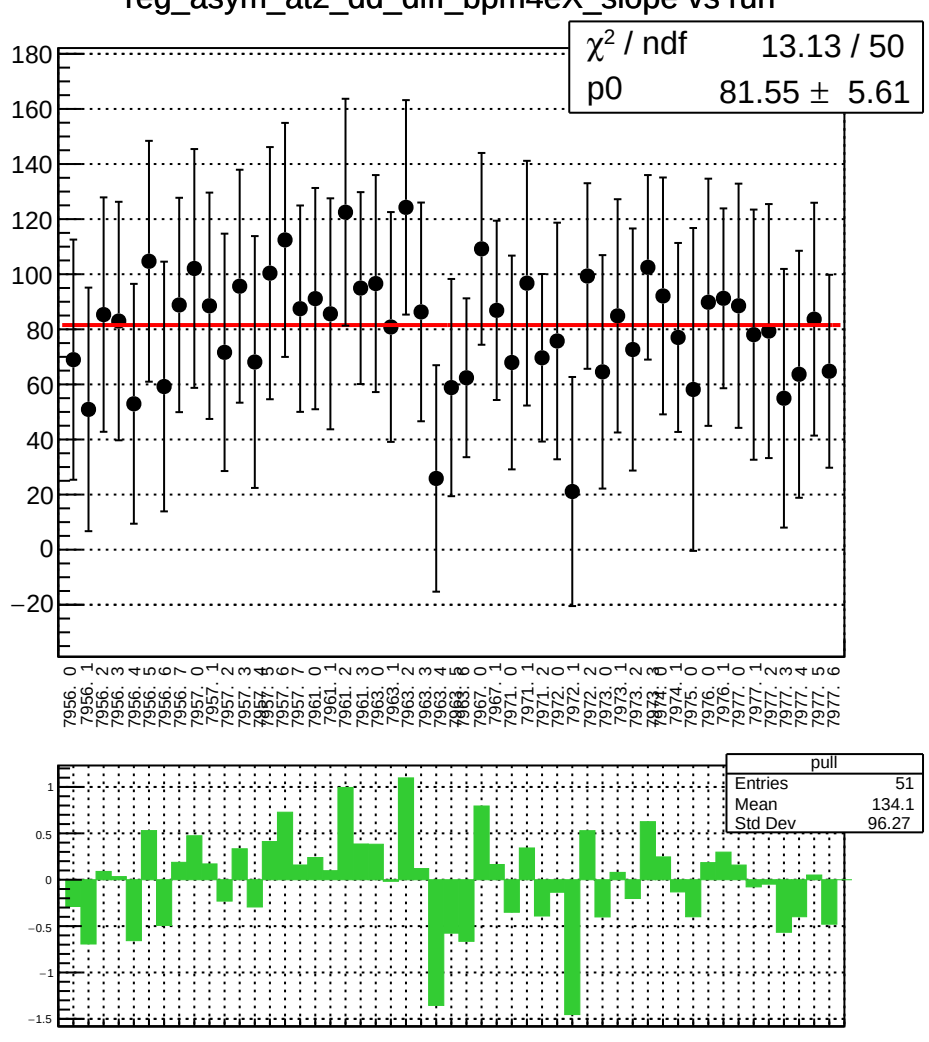

pull1D
Entries 51
Mean −0.07418
Std Dev 2.059

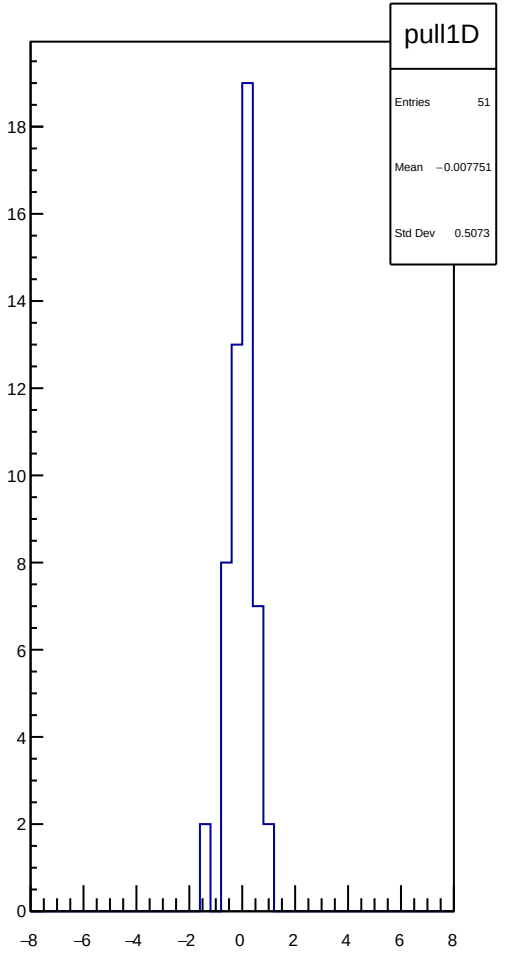

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 13.29 / 50
p0 6.928 ± 6.295
pull
Entries 51
Mean 132.8
Std Dev 96.46

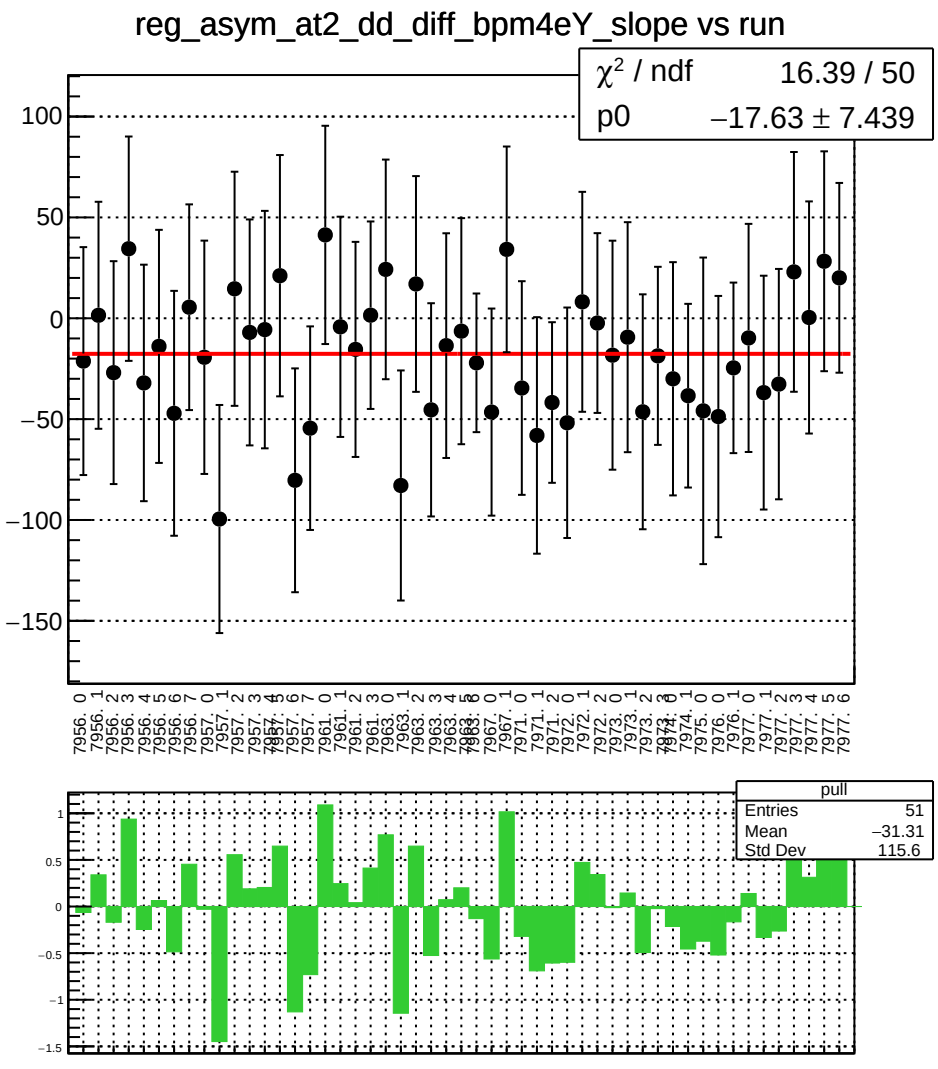

pull1D
Entries 51
Mean 0.00818
Std Dev 0.5105

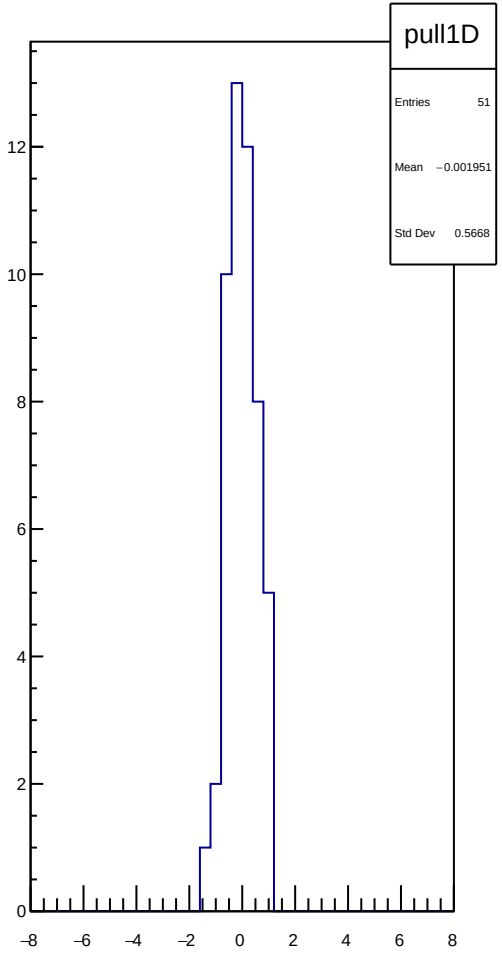

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.24 / 50
p0 17 ± 6.497
pull
Entries 51
Mean 234.1
Std Dev 232.4

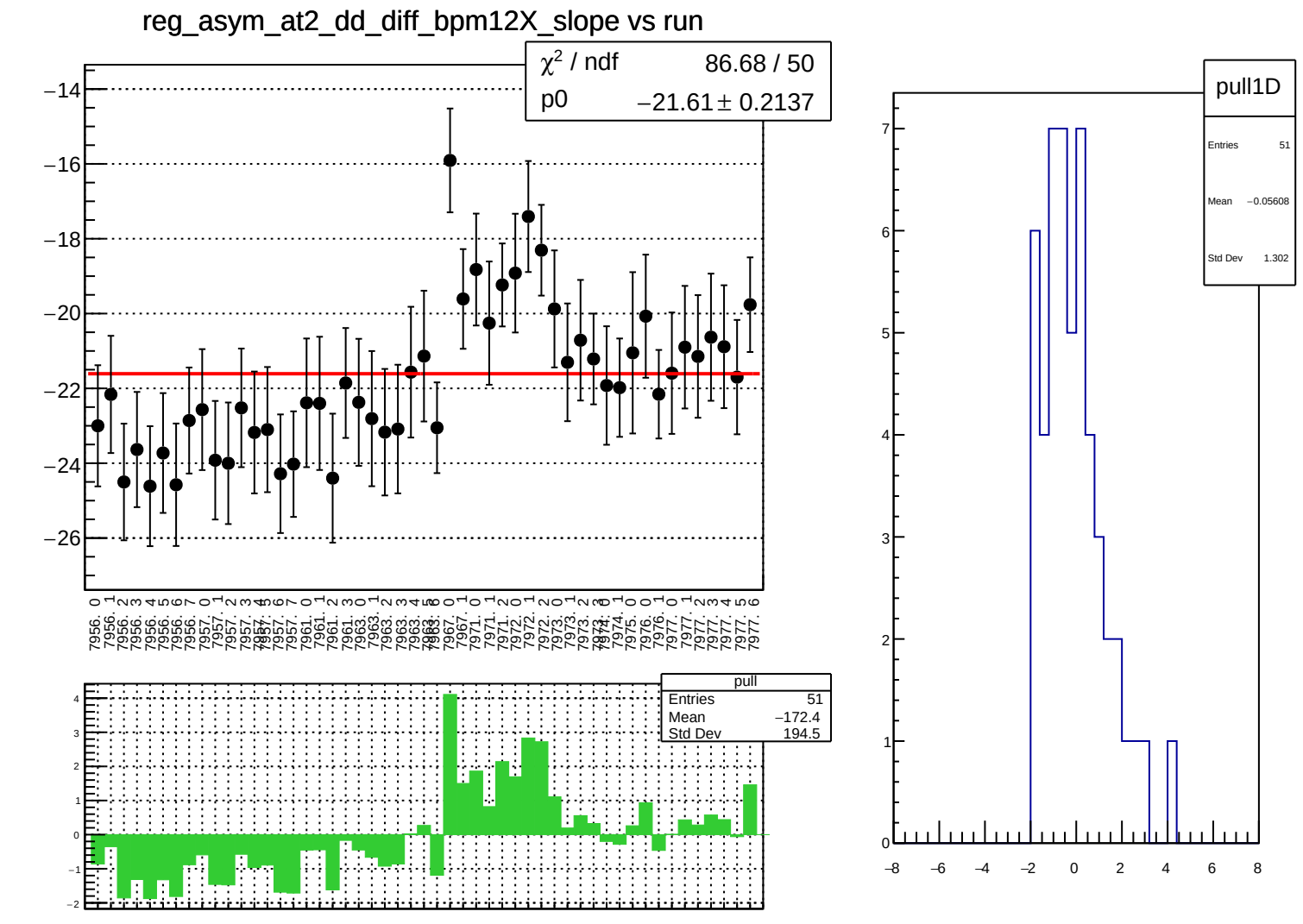

pull1D
Entries 51
Mean 0.001883
Std Dev 0.5815

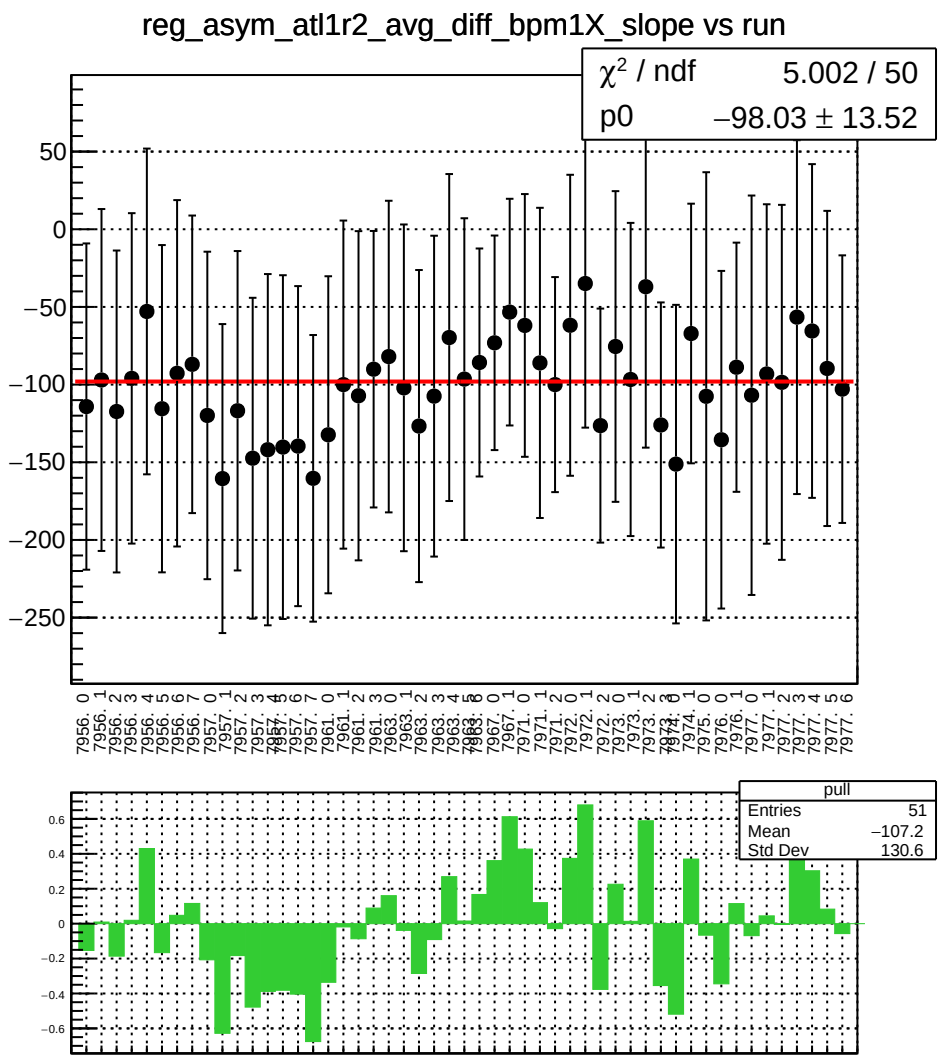

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.13 / 50
p0 81.55 ± 5.61
pull
Entries 51
Mean 134.1
Std Dev 96.27

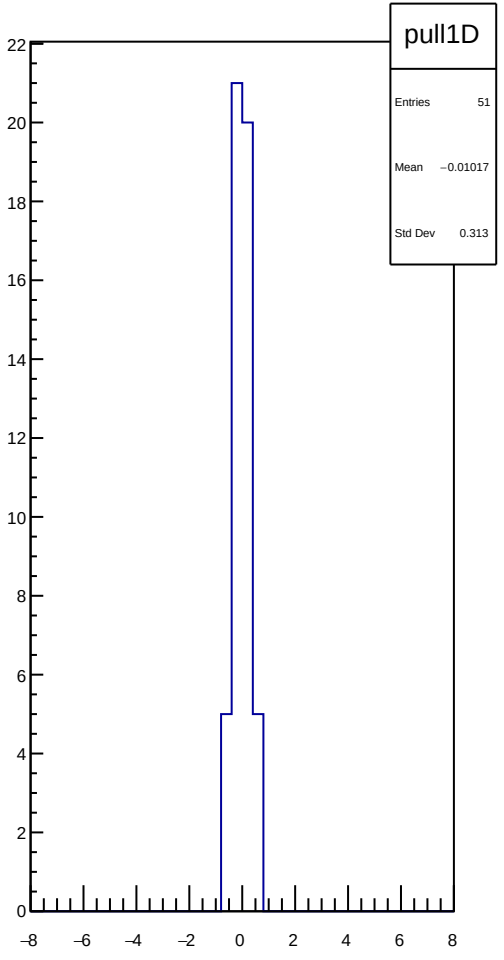

pull1D
Entries 51
Mean −0.007751
Std Dev 0.5073

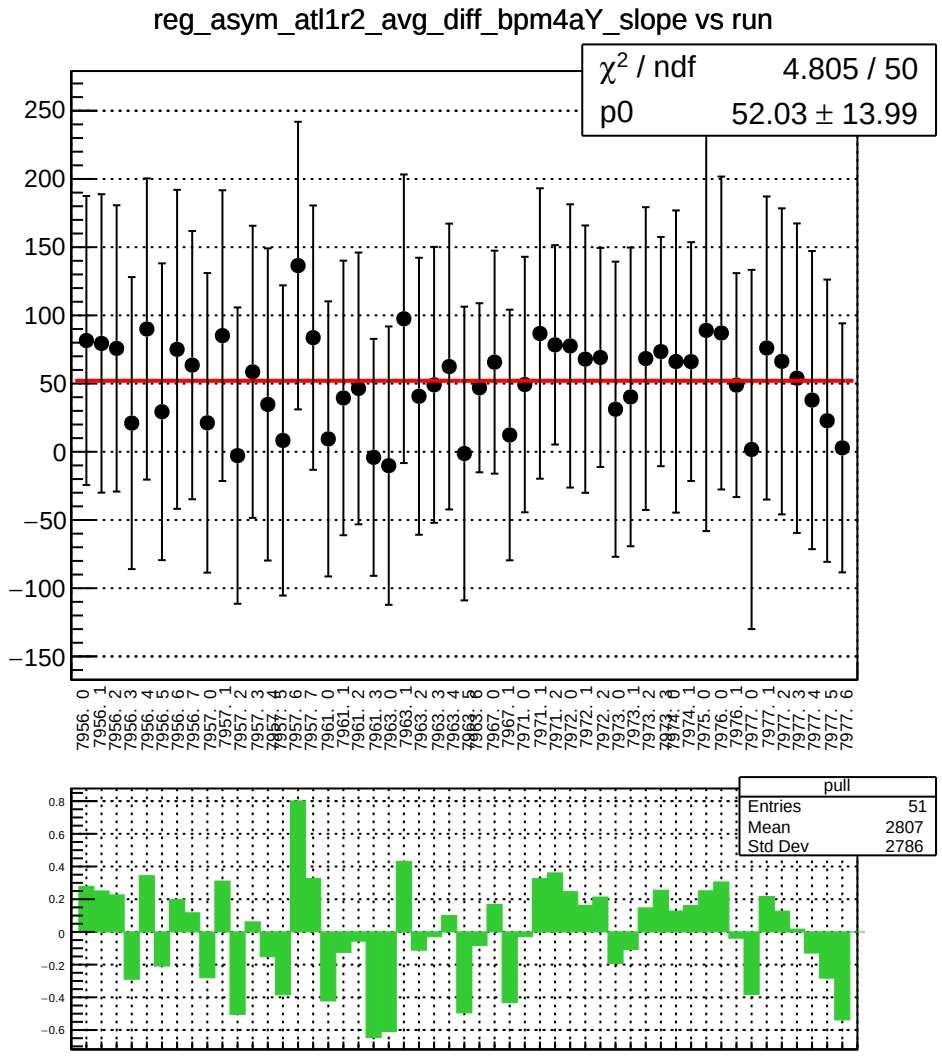

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.39 / 50
p0 −17.63 ± 7.439
pull
Entries 51
Mean −31.31
Std Dev 115.6

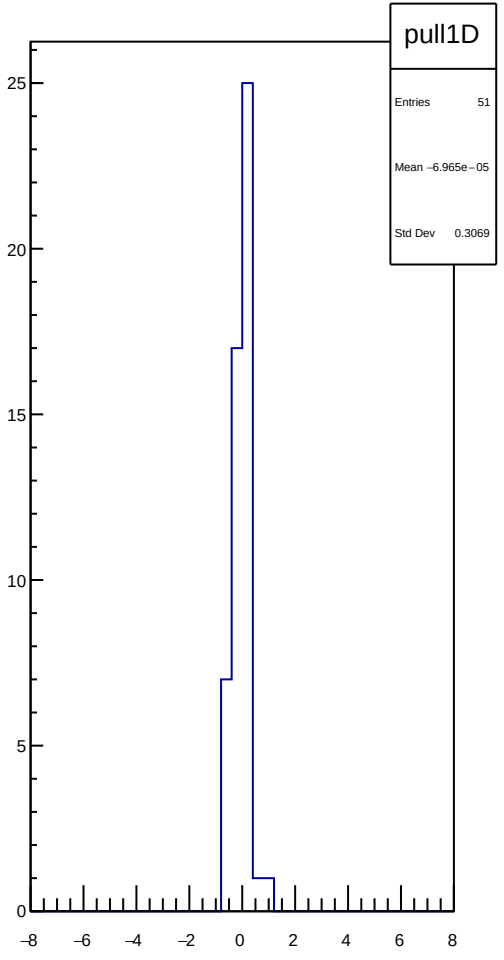

pull1D
Entries 51
Mean −0.001951
Std Dev 0.5668

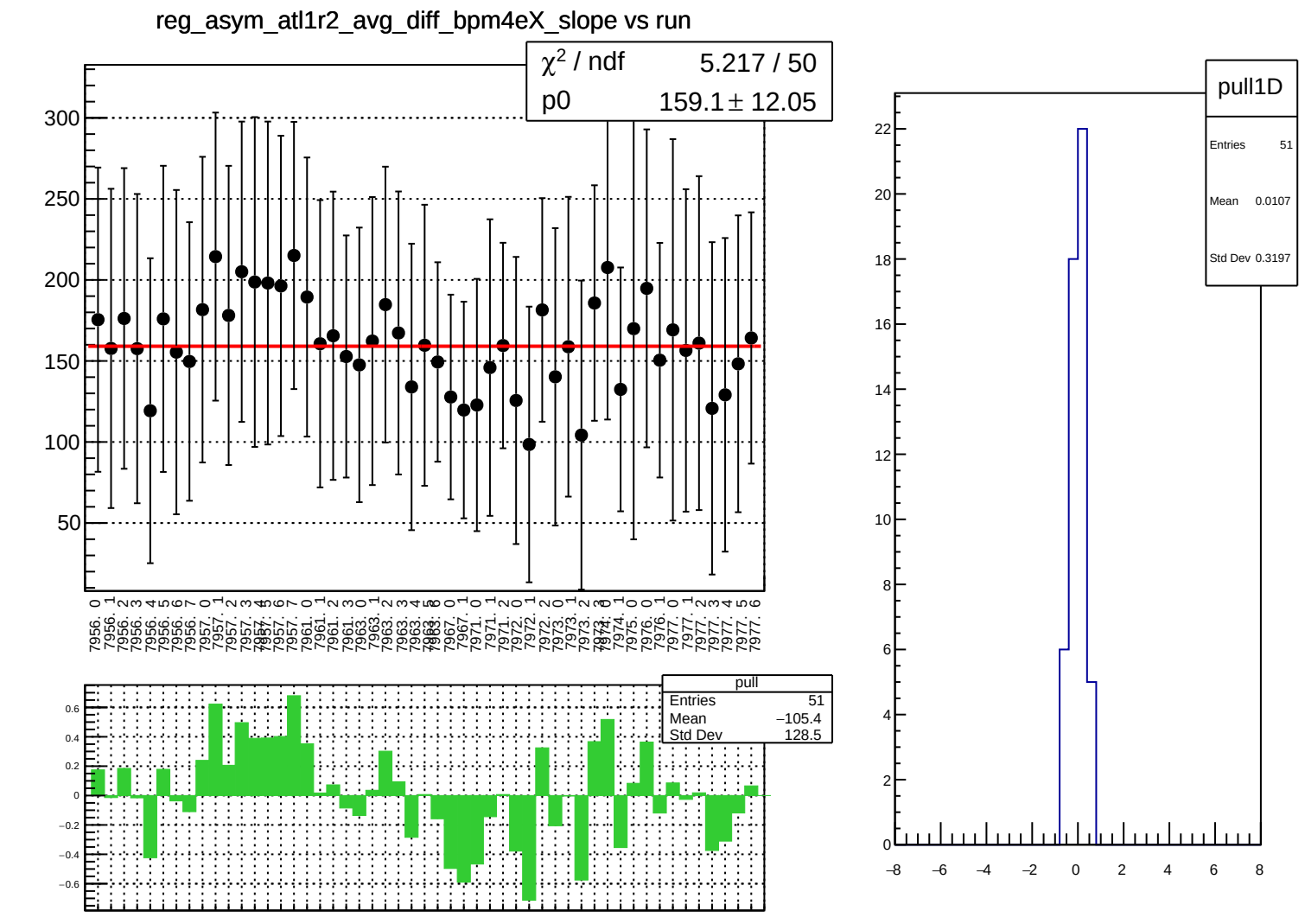

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 86.68 / 50
p0 −21.61 ± 0.2137
pull
Entries 51
Mean −172.4
Std Dev 194.5
pull1D
Entries 51
Mean −0.05608
Std Dev 1.302

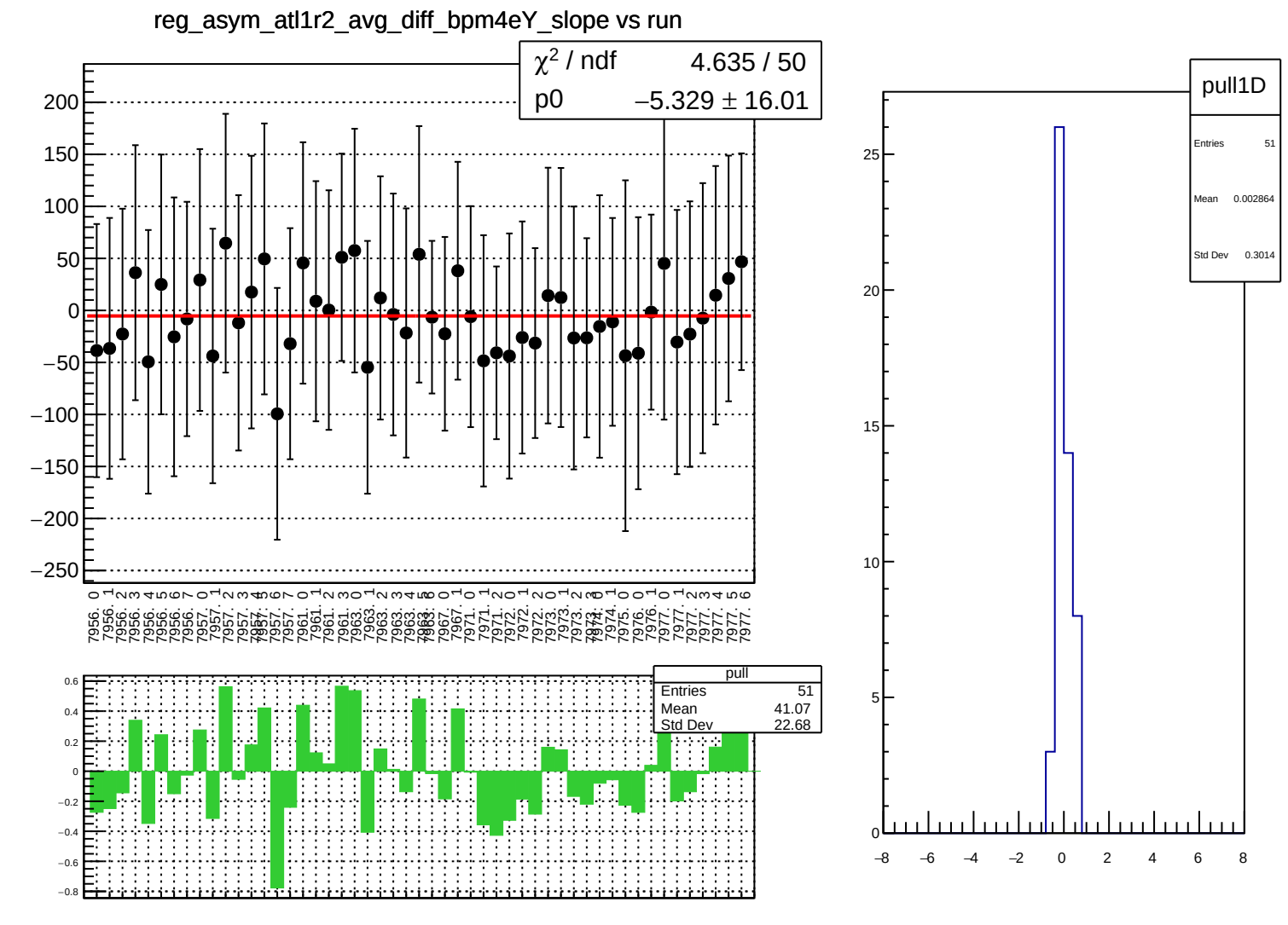

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 5.002 / 50
p0 −98.03 ± 13.52
pull
Entries 51
Mean −107.2
Std Dev 130.6

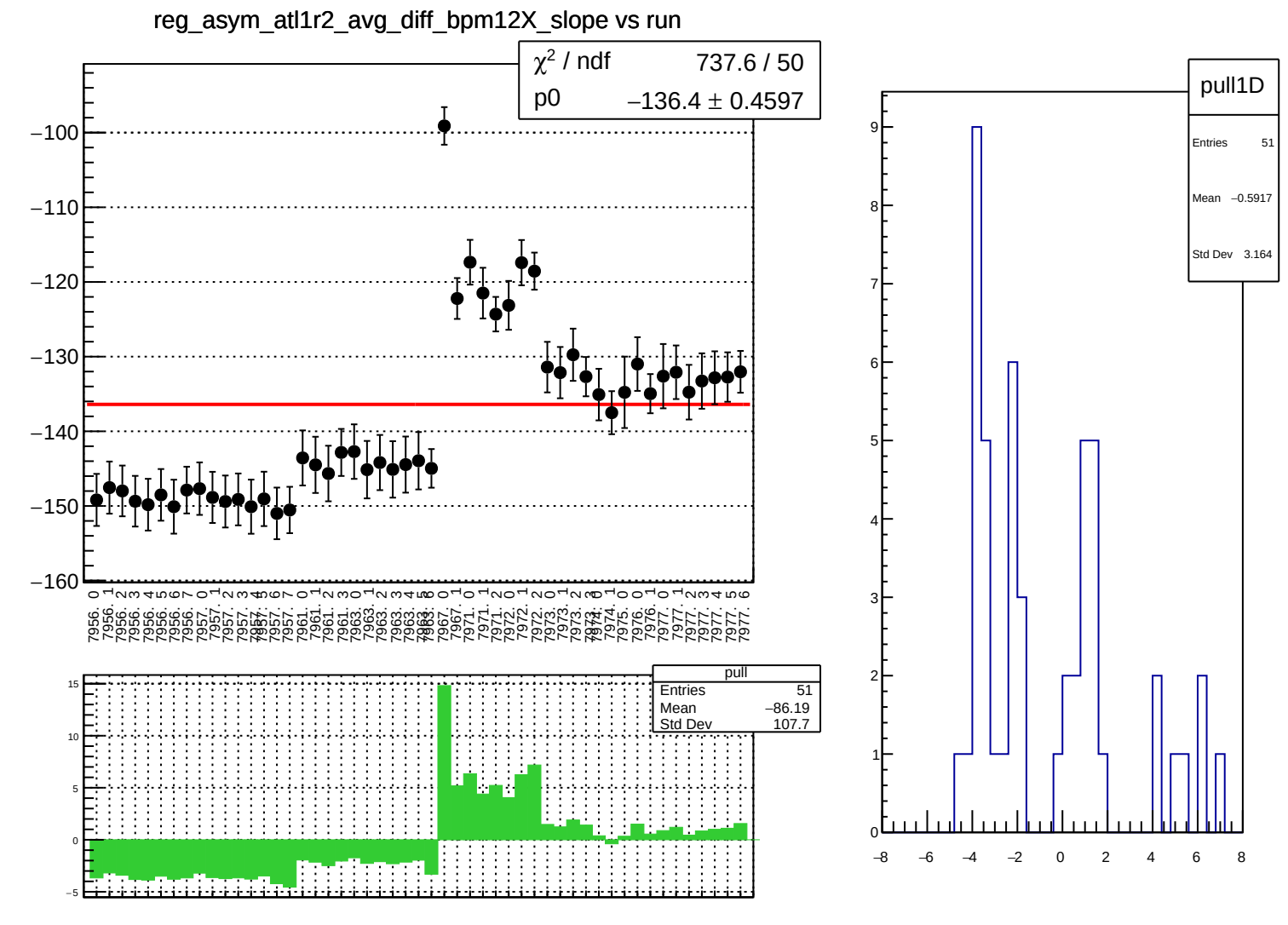

pull1D
Entries 51
Mean −0.01017
Std Dev 0.313

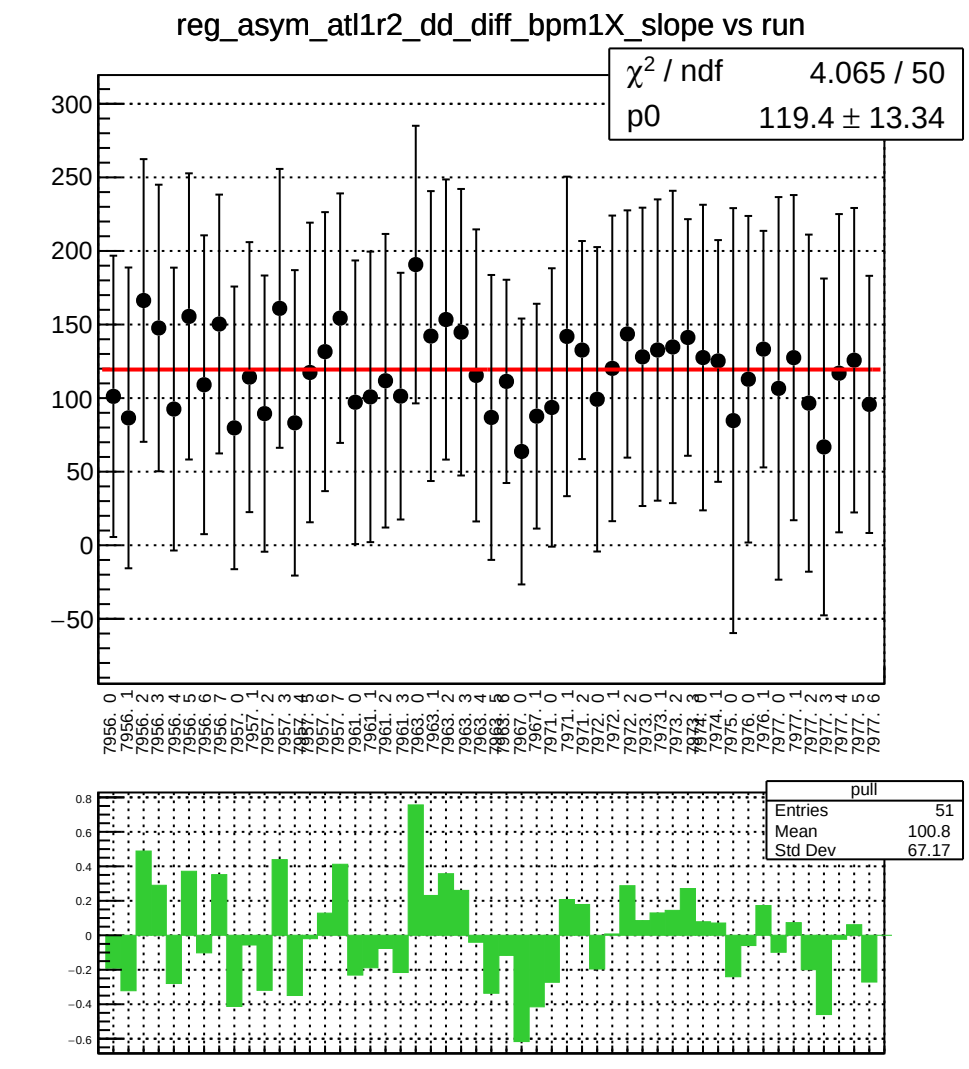

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.805 / 50
p0 52.03 ± 13.99
pull
Entries 51
Mean 2807
Std Dev 2786

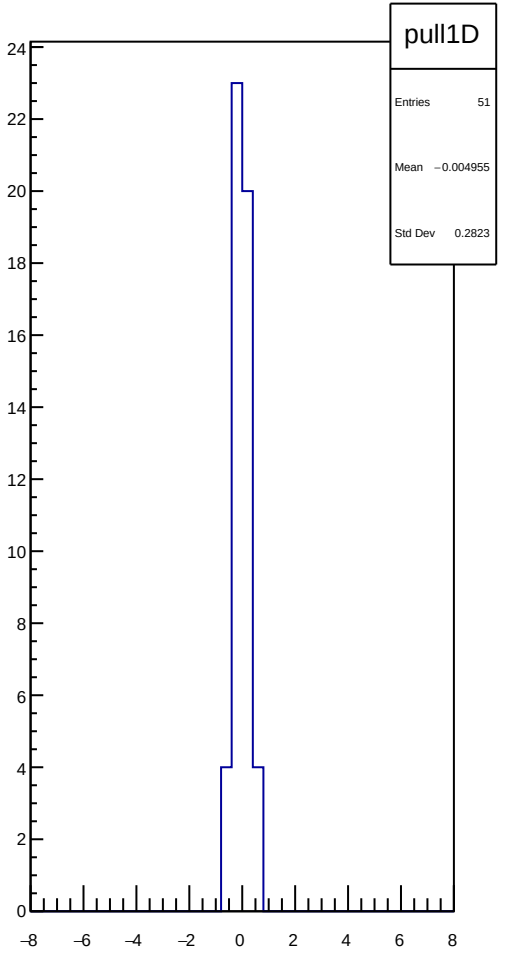

pull1D
Entries 51
Mean −6.965e−05
Std Dev 0.3069

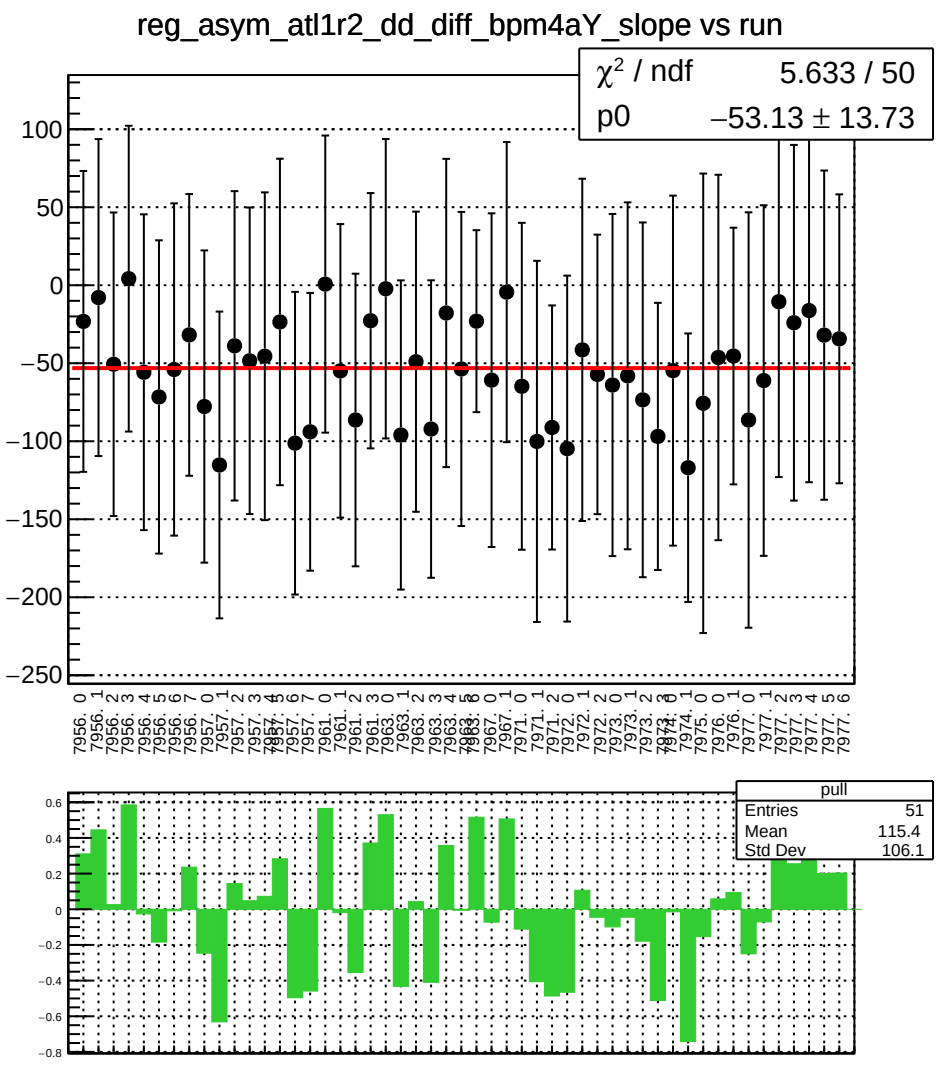

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.217 / 50
p0 159.1 ± 12.05
300
250
200
150
100
50
pull
Entries 51
Mean −105.4
Std Dev 128.5
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 51
Mean 0.0107
Std Dev 0.3197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

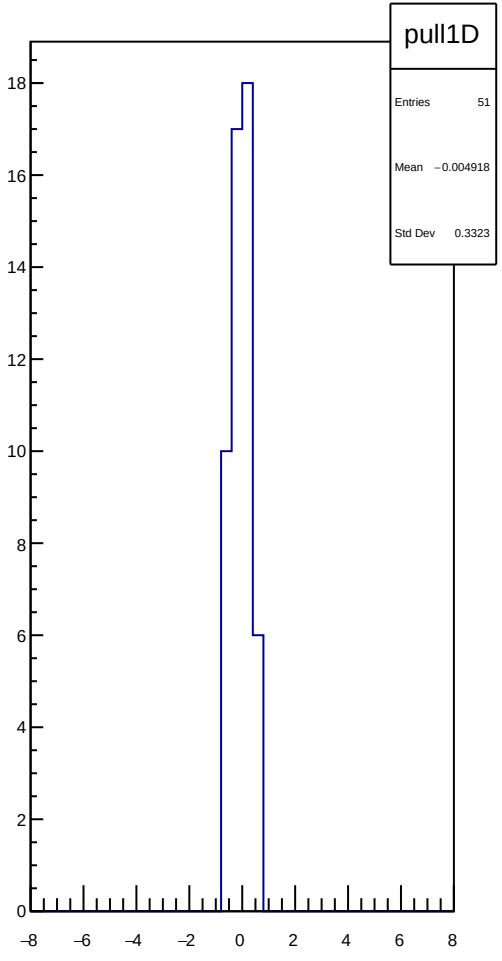

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.635 / 50
p0 −5.329 ± 16.01
pull
Entries 51
Mean 41.07
Std Dev 22.68
pull1D
Entries 51
Mean 0.002864
Std Dev 0.3014

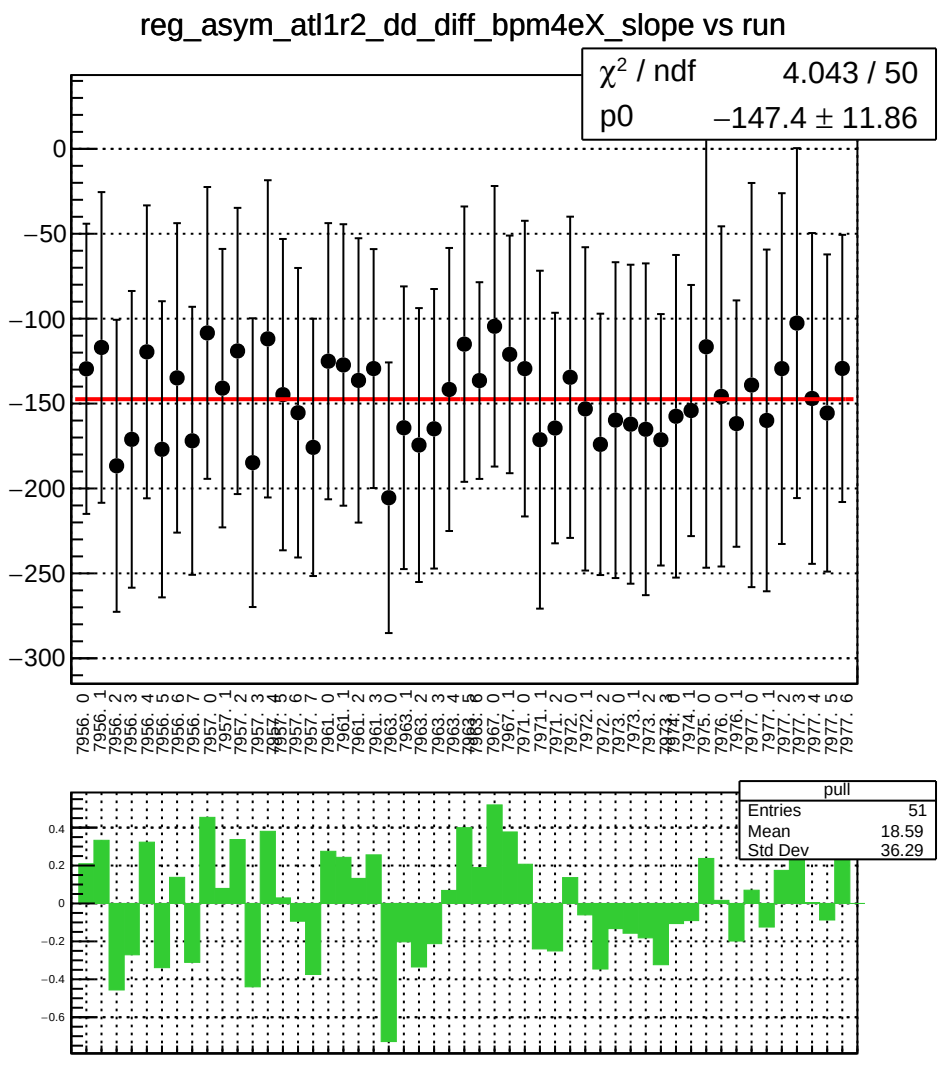

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 737.6 / 50
p0 −136.4 ± 0.4597
pull
Entries 51
Mean −86.19
Std Dev 107.7
pull1D
Entries 51
Mean −0.5917
Std Dev 3.164

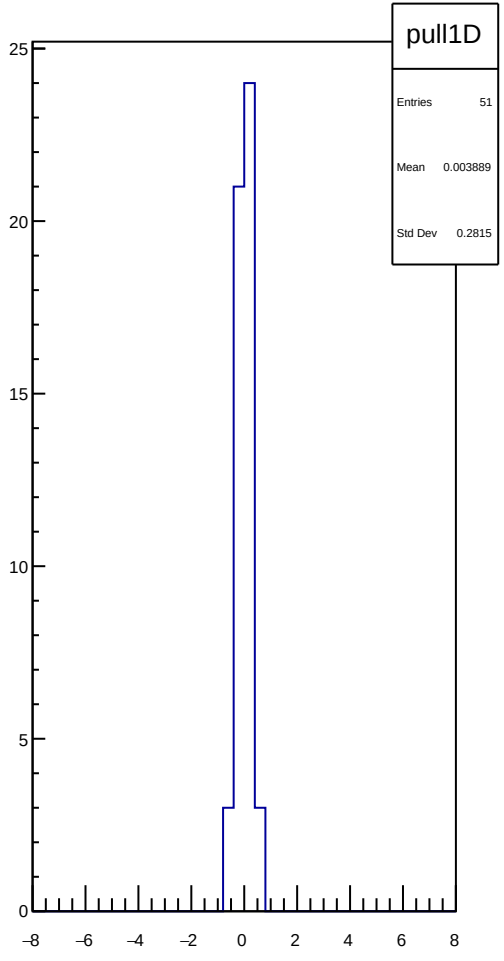

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 4.065 / 50
p0 119.4 ± 13.34
pull
Entries 51
Mean 100.8
Std Dev 67.17

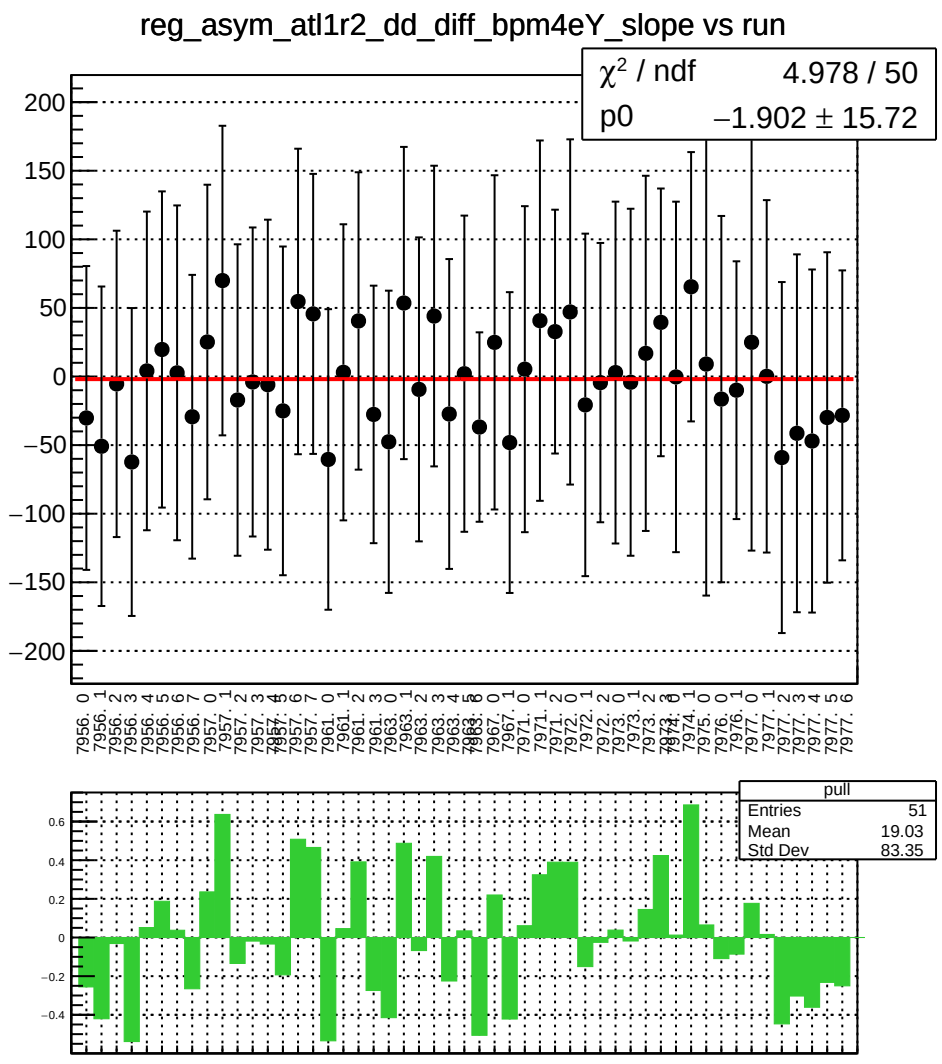

pull1D
Entries 51
Mean −0.004955
Std Dev 0.2823

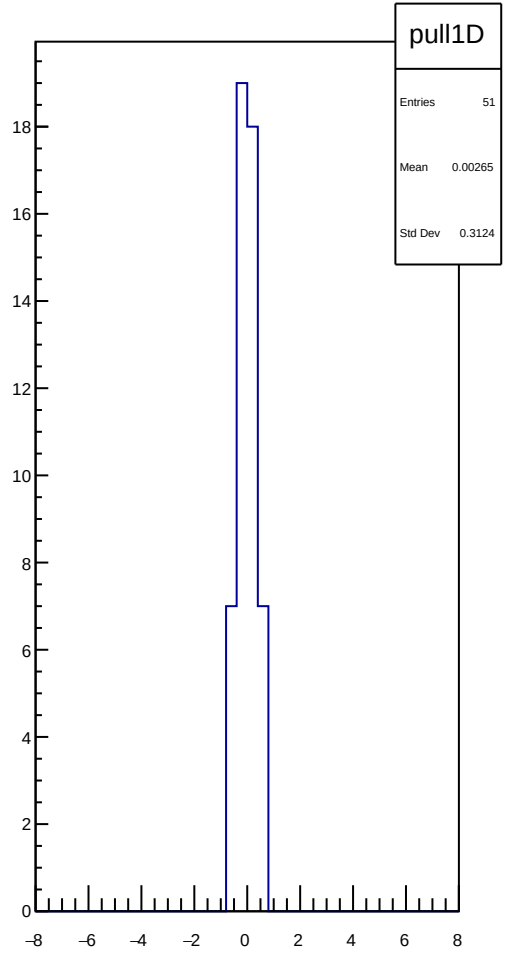

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.633 / 50
p0 −53.13 ± 13.73
pull
Entries 51
Mean 115.4
Std Dev 106.1

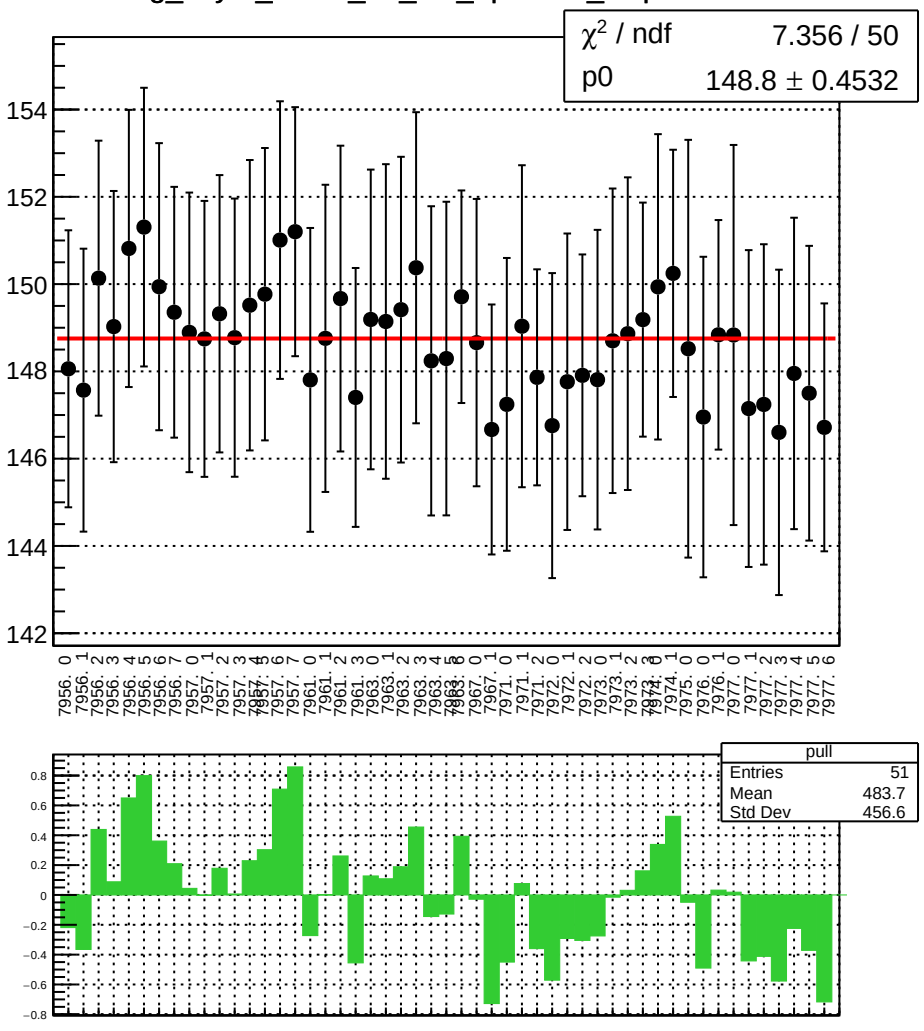

pull1D
Entries 51
Mean −0.004918
Std Dev 0.3323

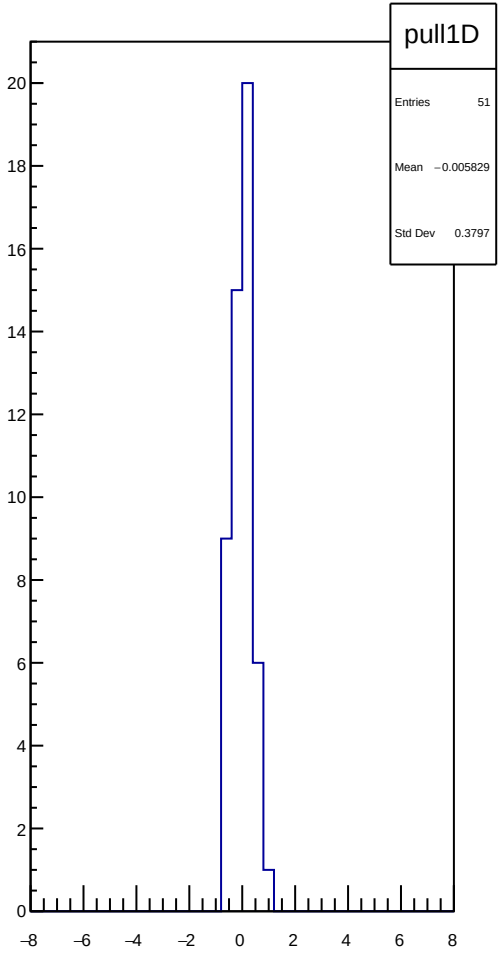

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.043 / 50
p0 −147.4 ± 11.86
pull
Entries 51
Mean 18.59
Std Dev 36.29

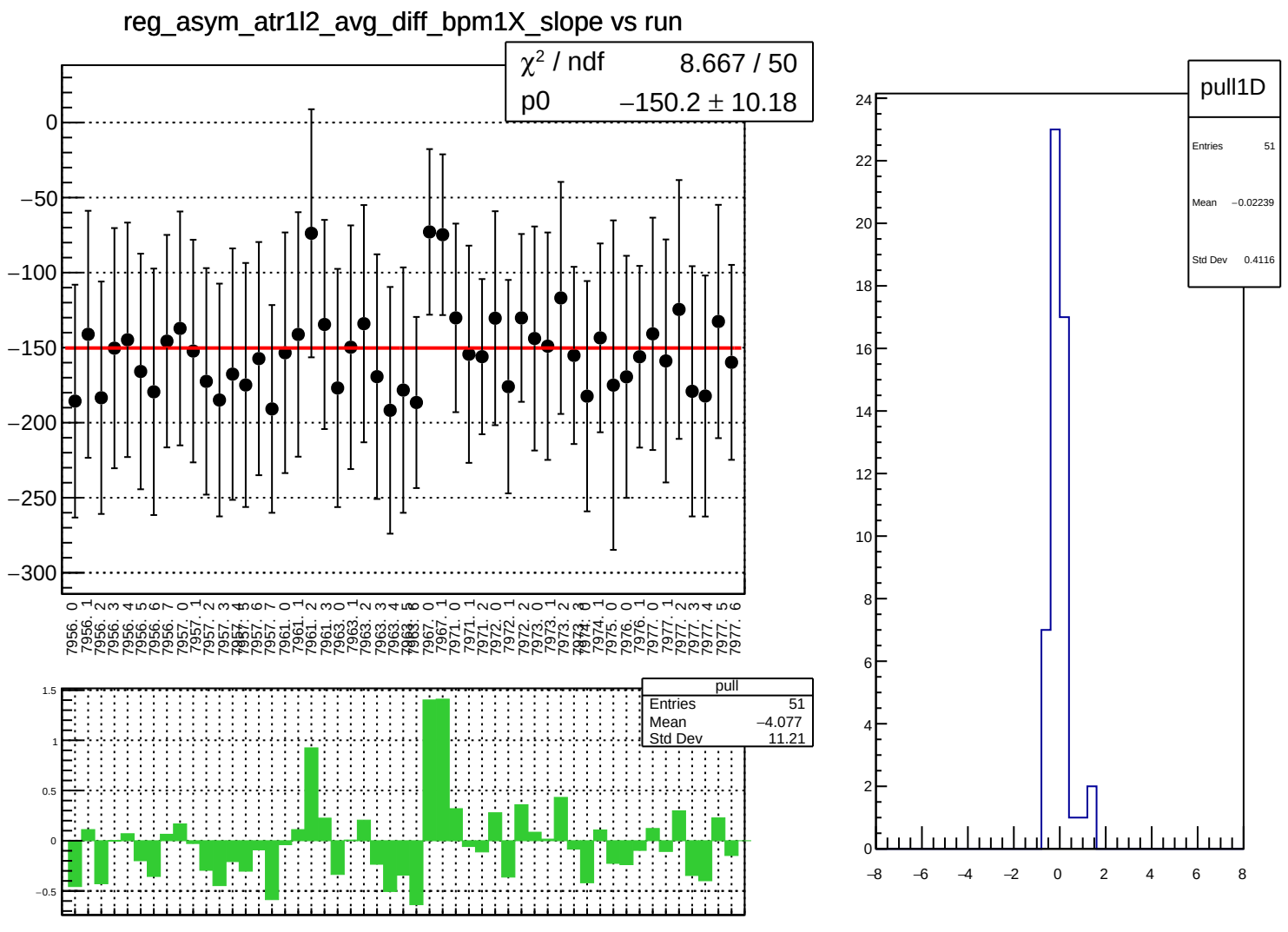

pull1D
Entries 51
Mean 0.003889
Std Dev 0.2815

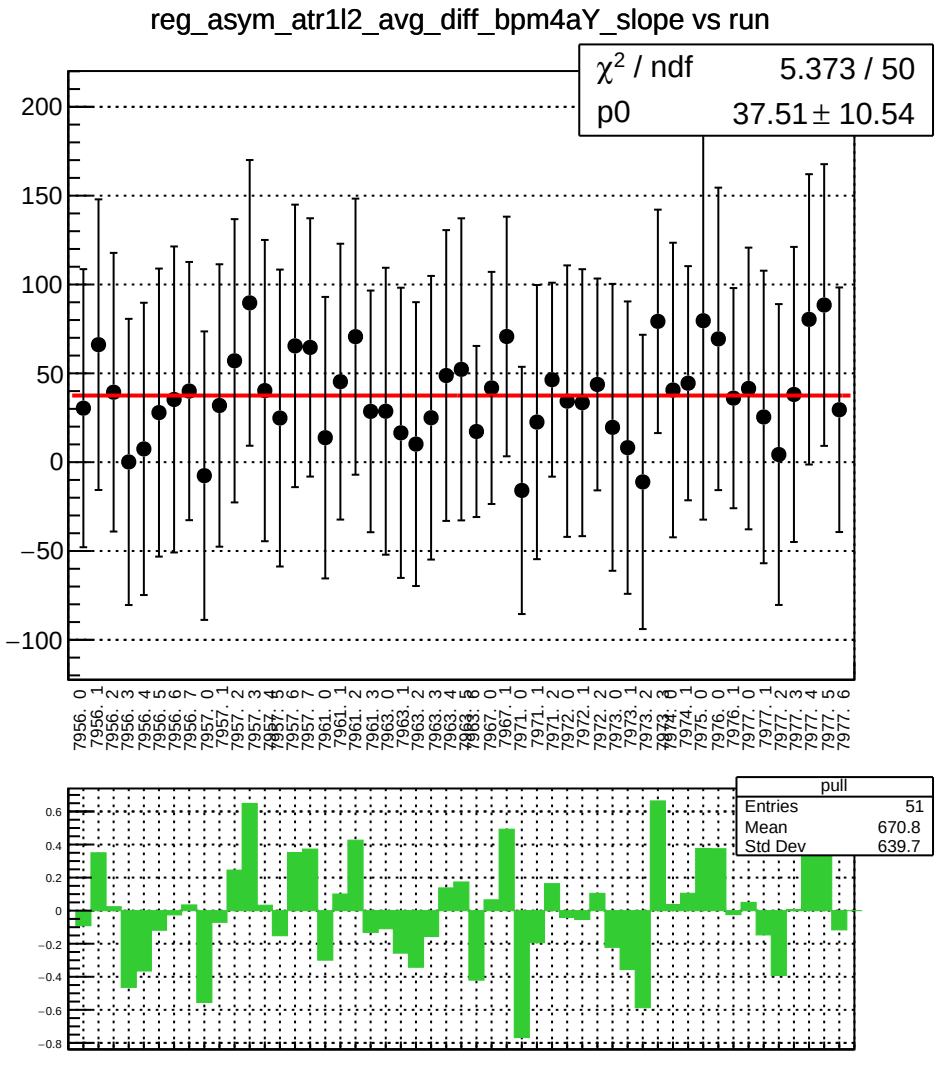

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.978 / 50
p0 −1.902 ± 15.72
pull
Entries 51
Mean 19.03
Std Dev 83.35

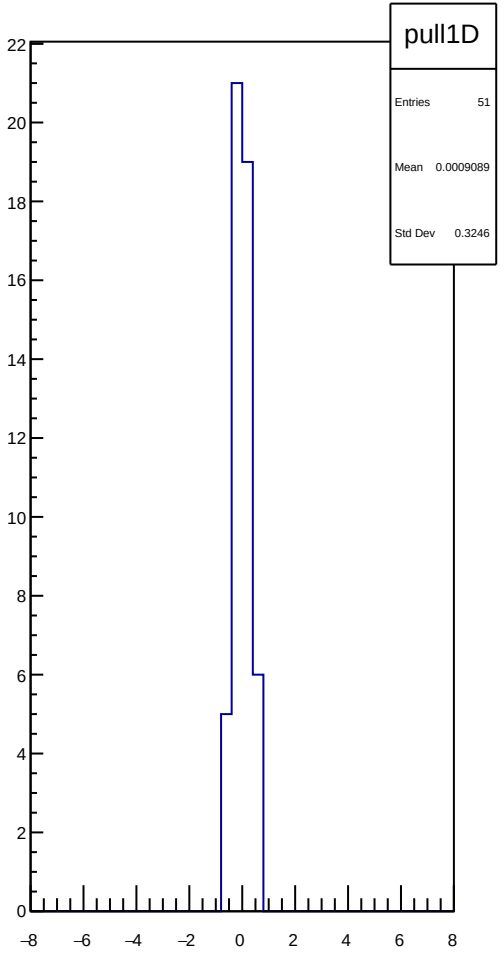

pull1D
Entries 51
Mean 0.00265
Std Dev 0.3124

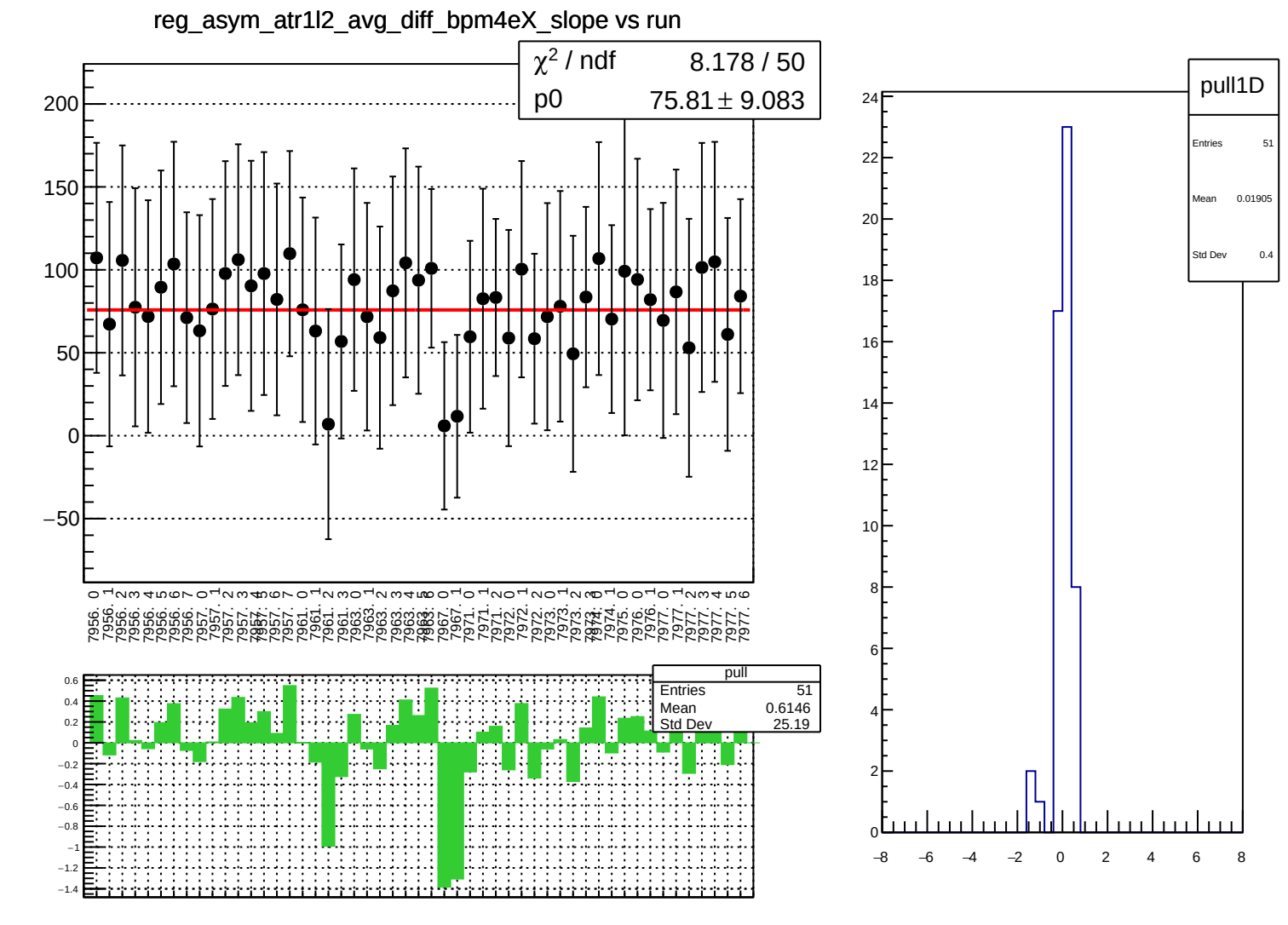

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.356 / 50
p0 148.8 ± 0.4532
pull
Entries 51
Mean 483.7
Std Dev 456.6

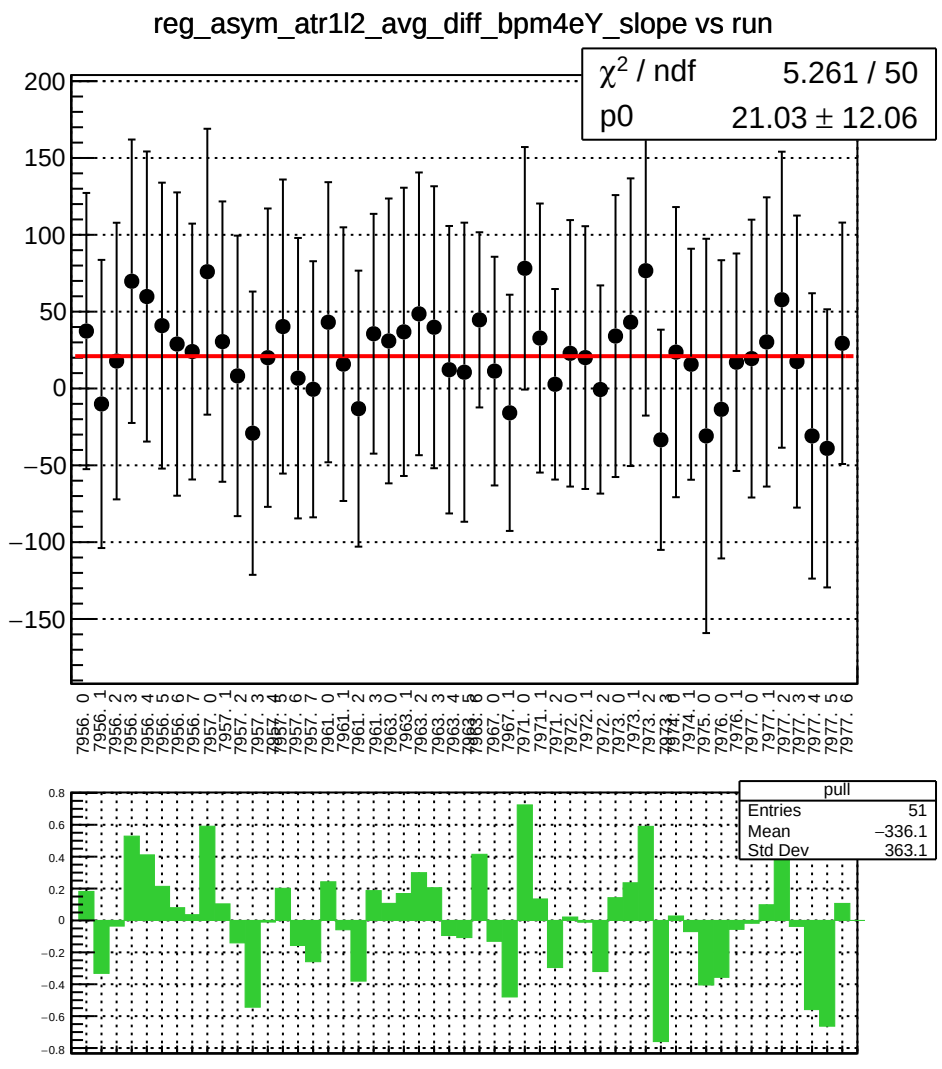

pull1D
Entries 51
Mean −0.005829
Std Dev 0.3797

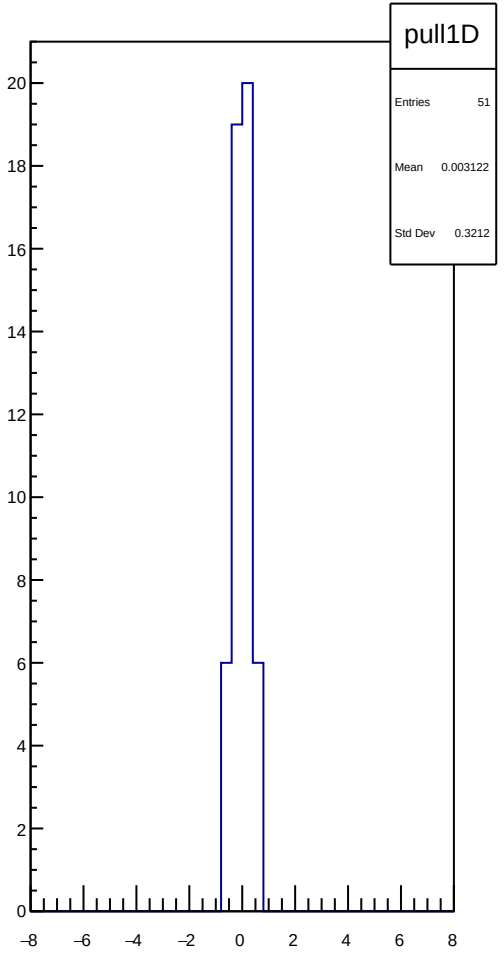

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.667 / 50
p0 −150.2 ± 10.18
pull
Entries 51
Mean −4.077
Std Dev 11.21
pull1D
Entries 51
Mean −0.02239
Std Dev 0.4116

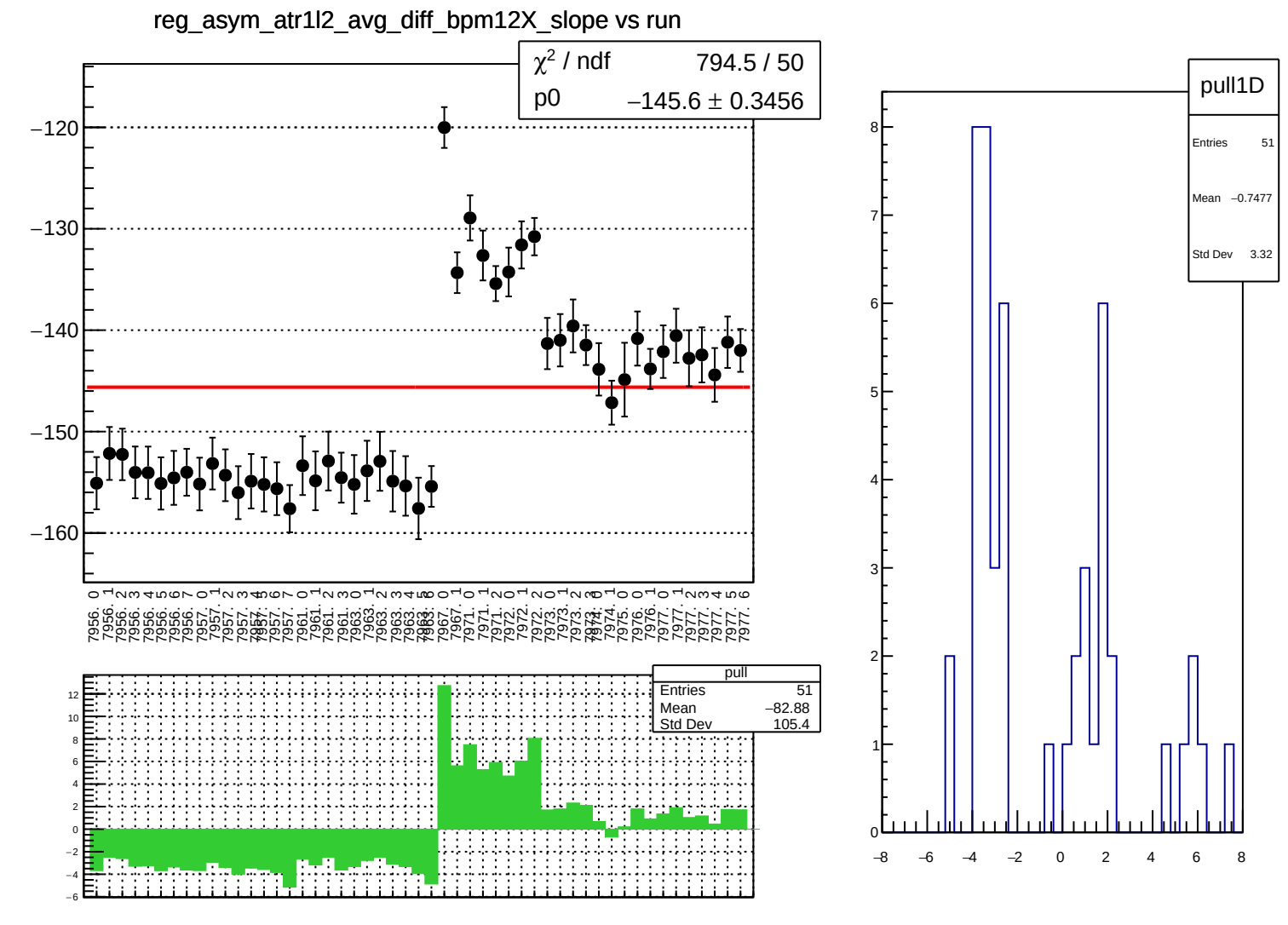

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.373 / 50
p0 37.51 ± 10.54
pull
Entries 51
Mean 670.8
Std Dev 639.7

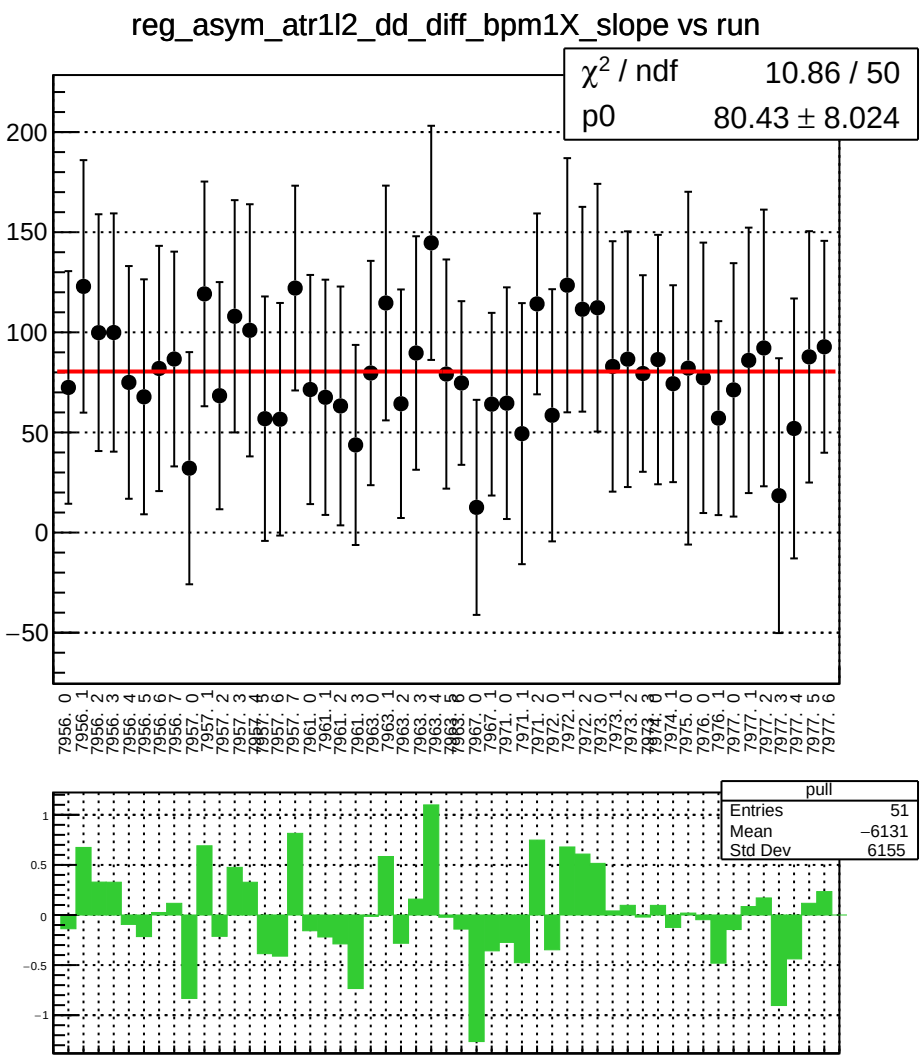

pull1D
Entries 51
Mean 0.0009089
Std Dev 0.3246

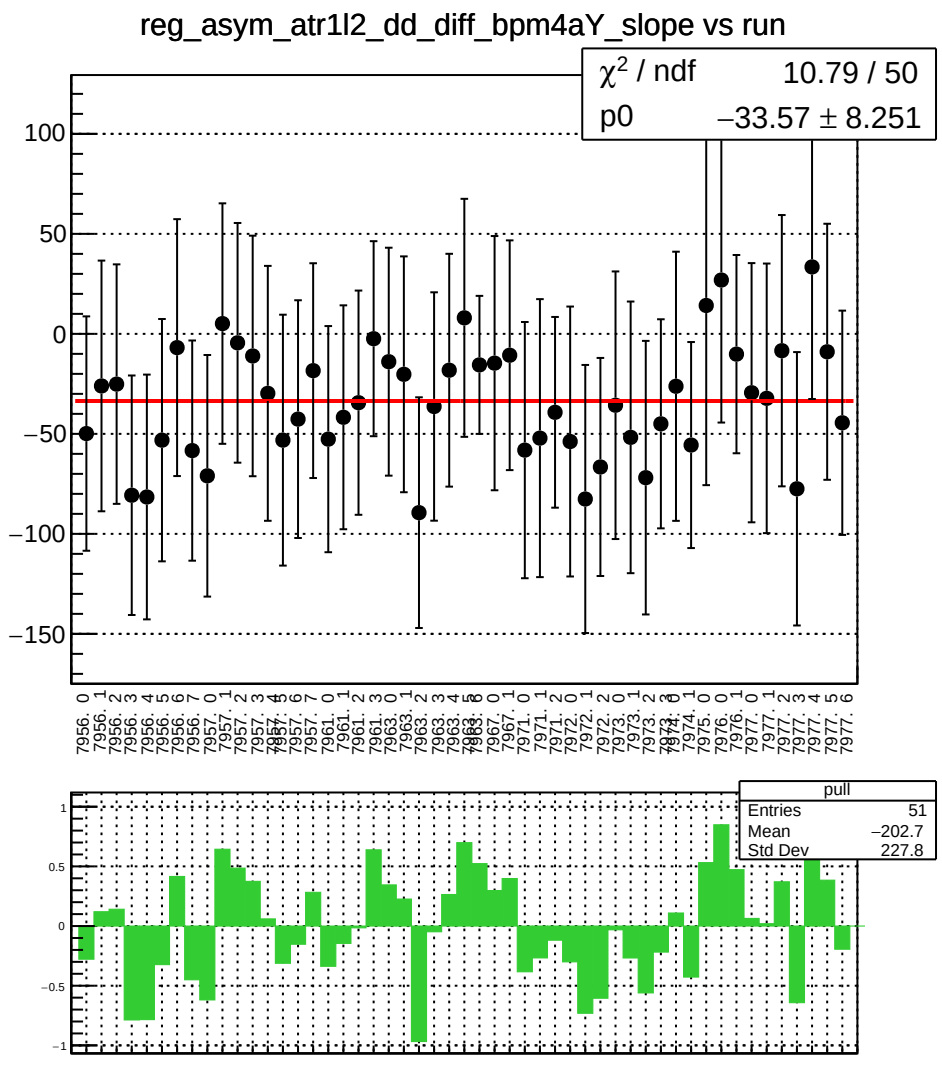

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 8.178 / 50
p0 75.81 ± 9.083
pull
Entries 51
Mean 0.6146
Std Dev 25.19
pull1D
Entries 51
Mean 0.01905
Std Dev 0.4

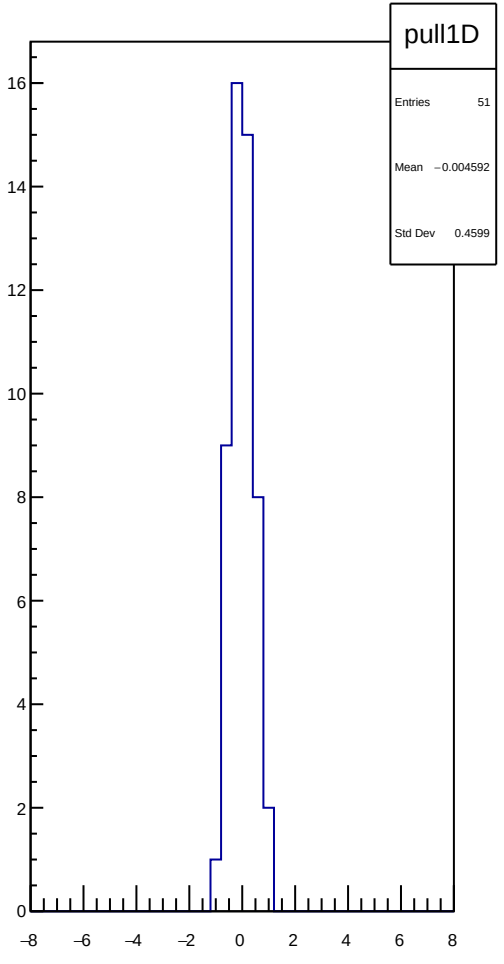

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.261 / 50
p0 21.03 ± 12.06
pull
Entries 51
Mean −336.1
Std Dev 363.1

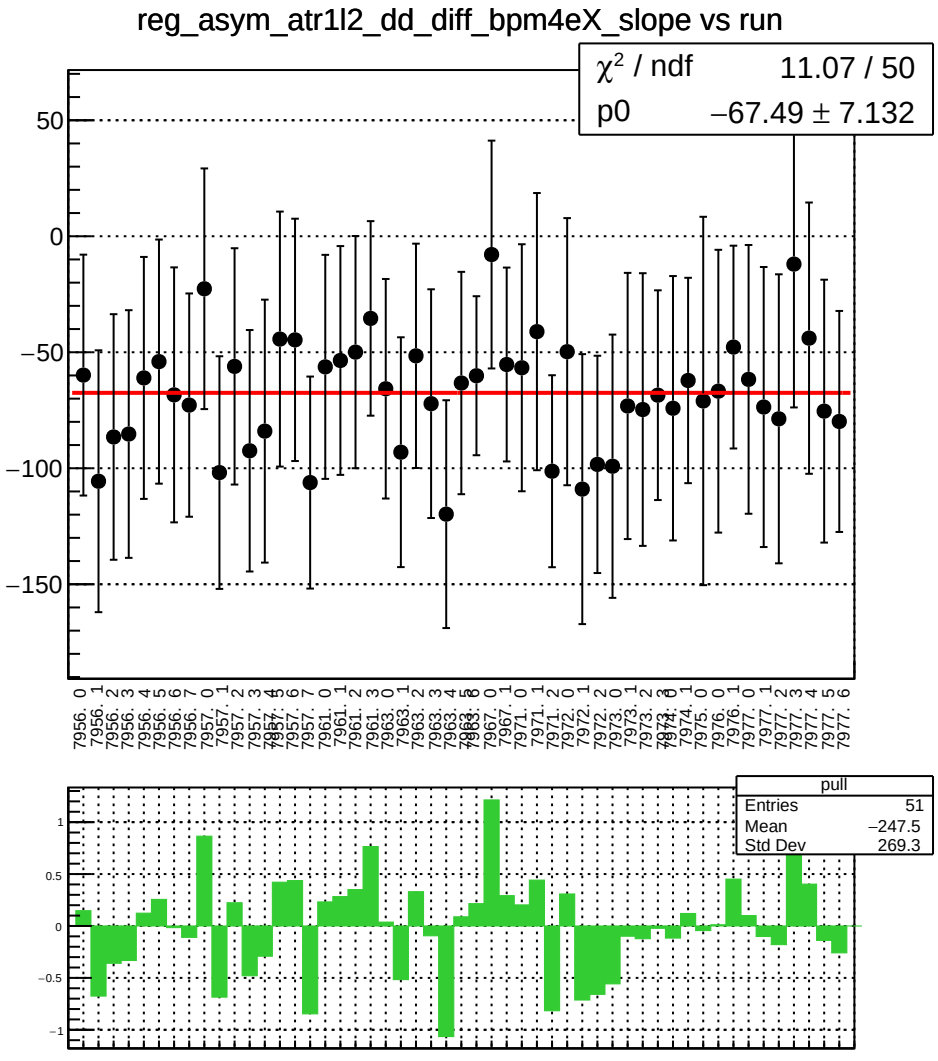

pull1D
Entries 51
Mean 0.003122
Std Dev 0.3212

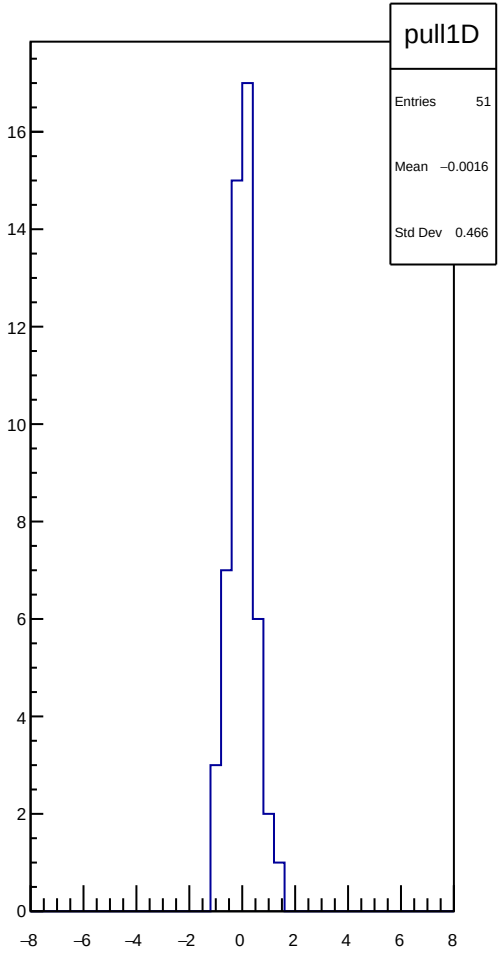

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 794.5 / 50
p0 −145.6 ± 0.3456
pull
Entries 51
Mean −82.88
Std Dev 105.4
pull1D
Entries 51
Mean −0.7477
Std Dev 3.32

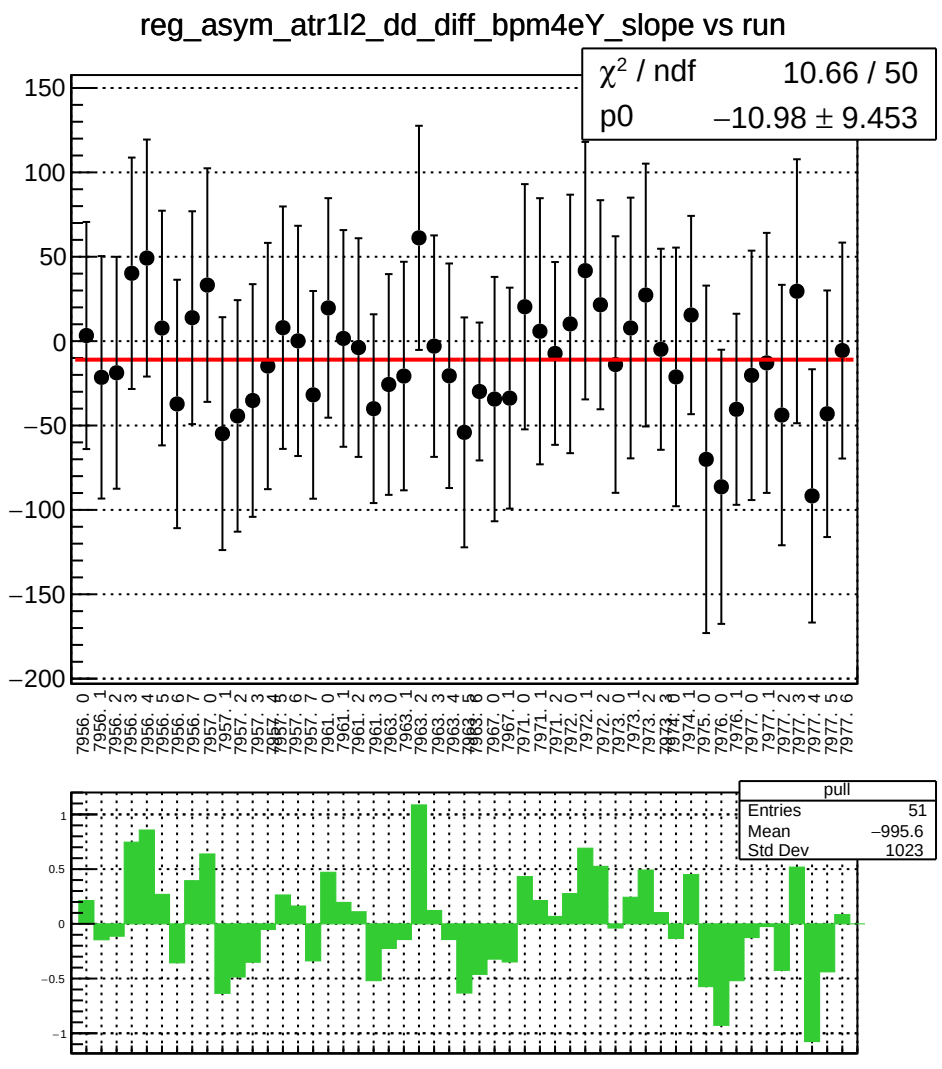

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.86 / 50
p0 80.43 ± 8.024
200
150
100
50
0
−50
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7963. 5
7963. 6
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 0
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6
pull
Entries 51
Mean −6131
Std Dev 6155
1
0.5
0
−0.5
−1
pull1D
Entries 51
Mean 0.0001175
Std Dev 0.4615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

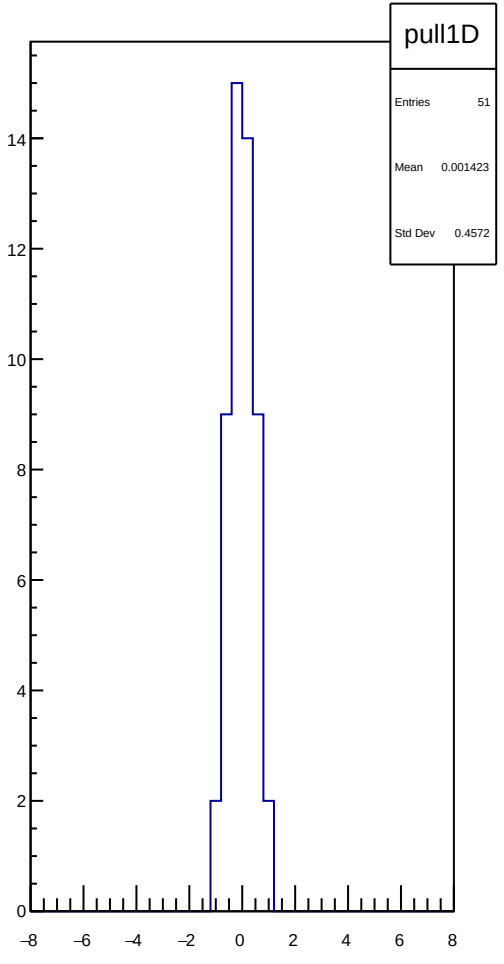

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.79 / 50
p0 −33.57 ± 8.251
pull
Entries 51
Mean −202.7
Std Dev 227.8

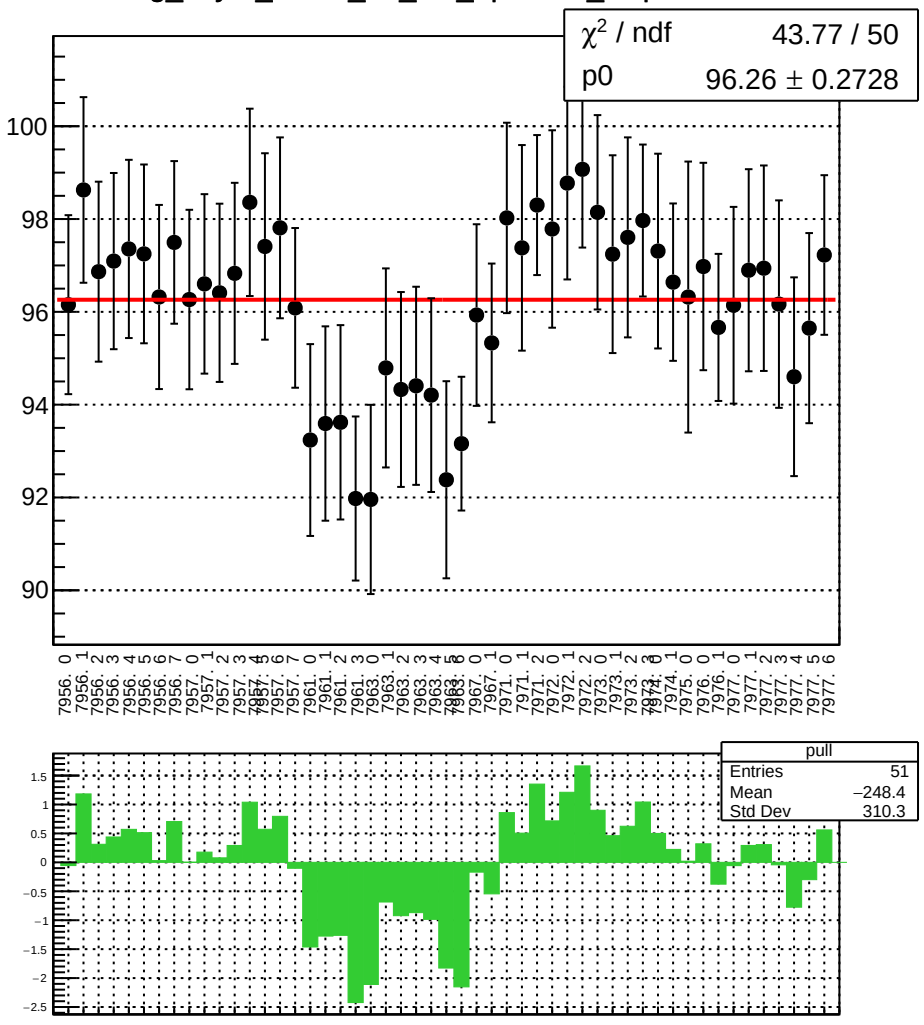

pull1D
Entries 51
Mean −0.004592
Std Dev 0.4599

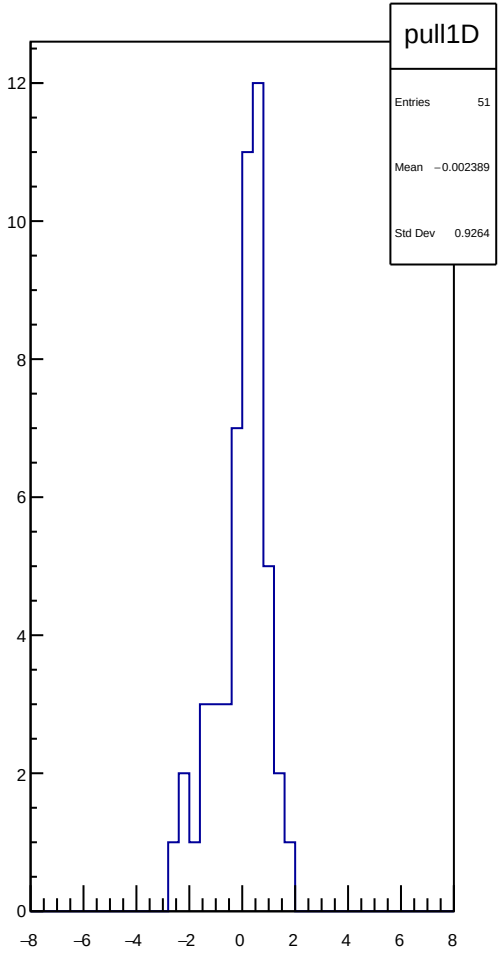

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.07 / 50
p0 −67.49 ± 7.132
pull
Entries 51
Mean −247.5
Std Dev 269.3

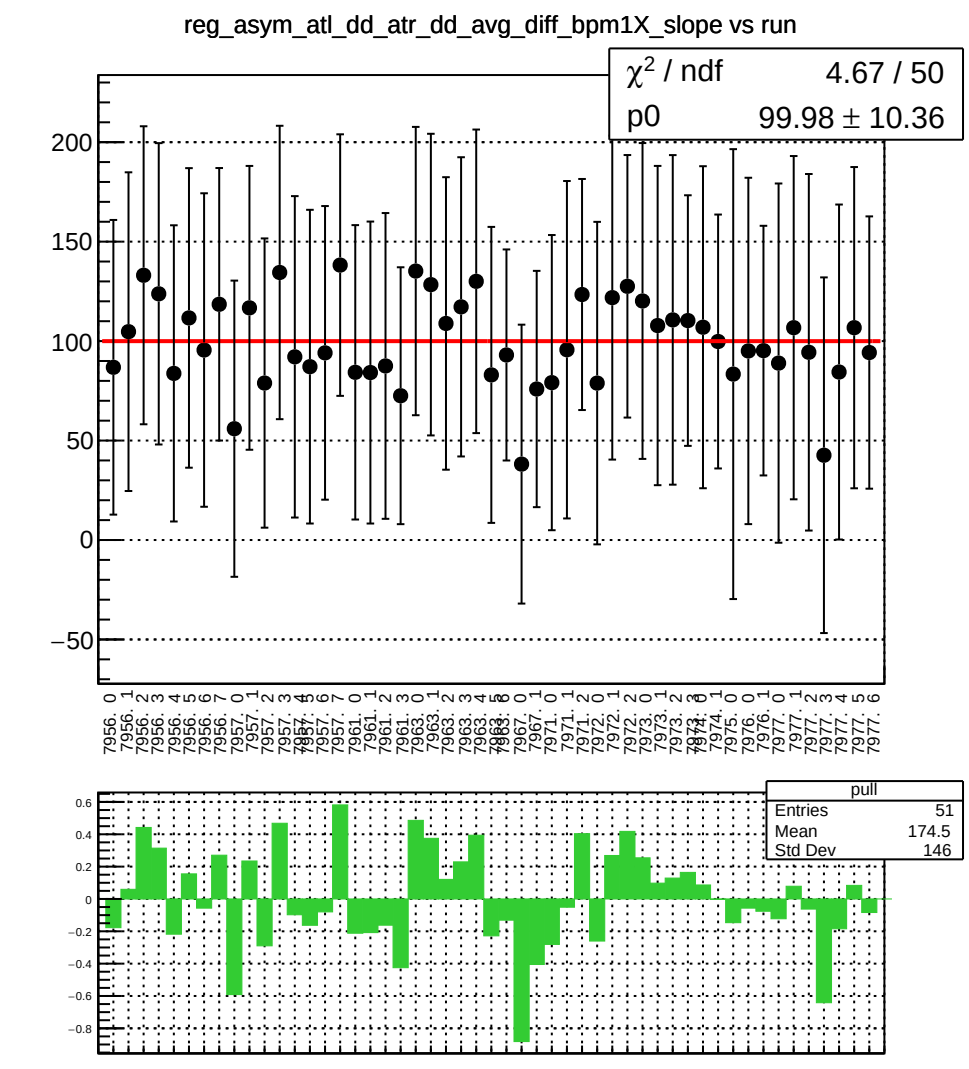

pull1D
Entries 51
Mean −0.0016
Std Dev 0.466

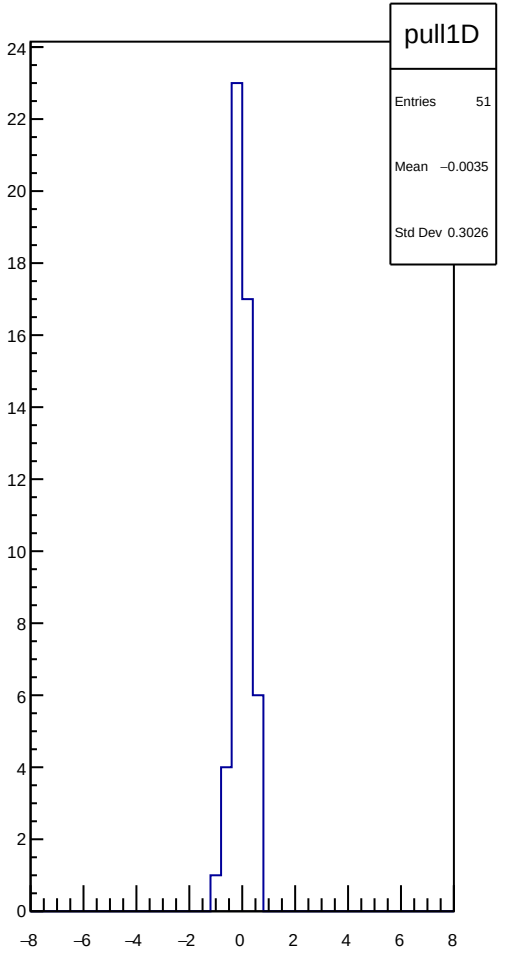

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.66 / 50
p0 −10.98 ± 9.453
pull
Entries 51
Mean −995.6
Std Dev 1023

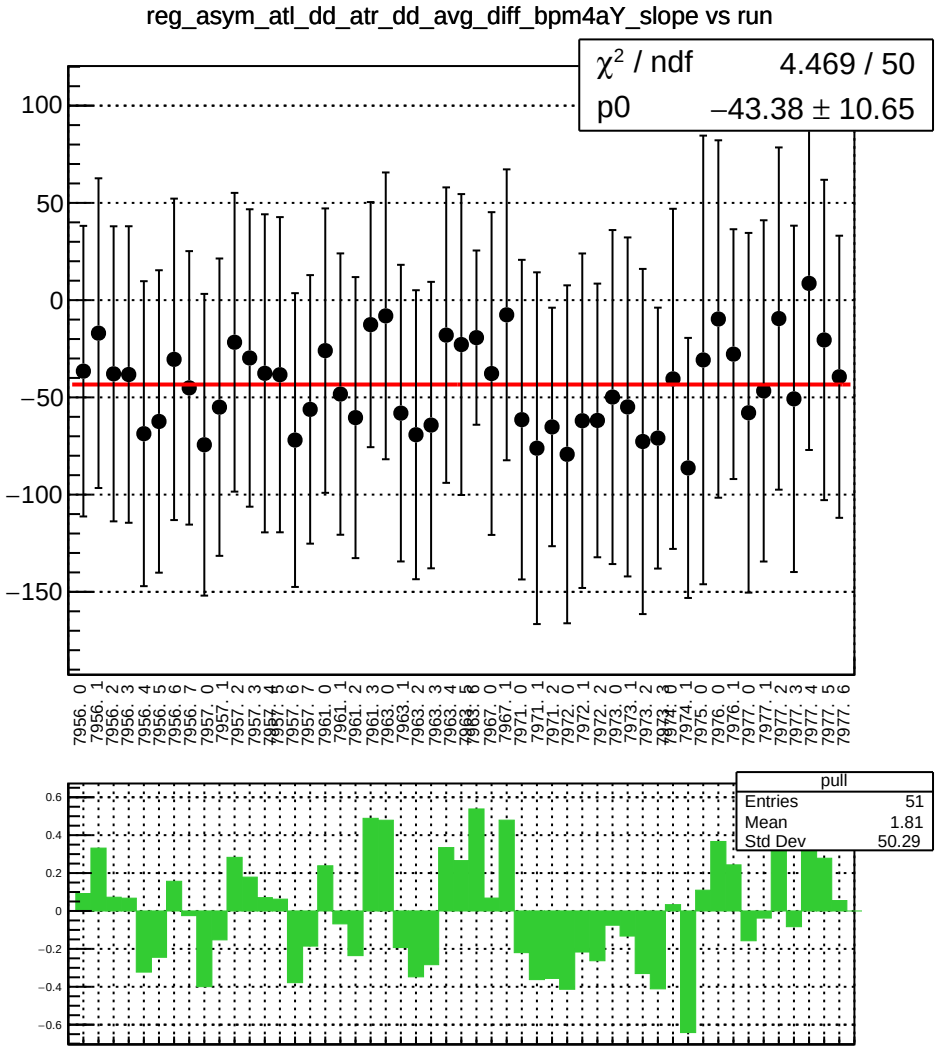

pull1D
Entries 51
Mean 0.001423
Std Dev 0.4572

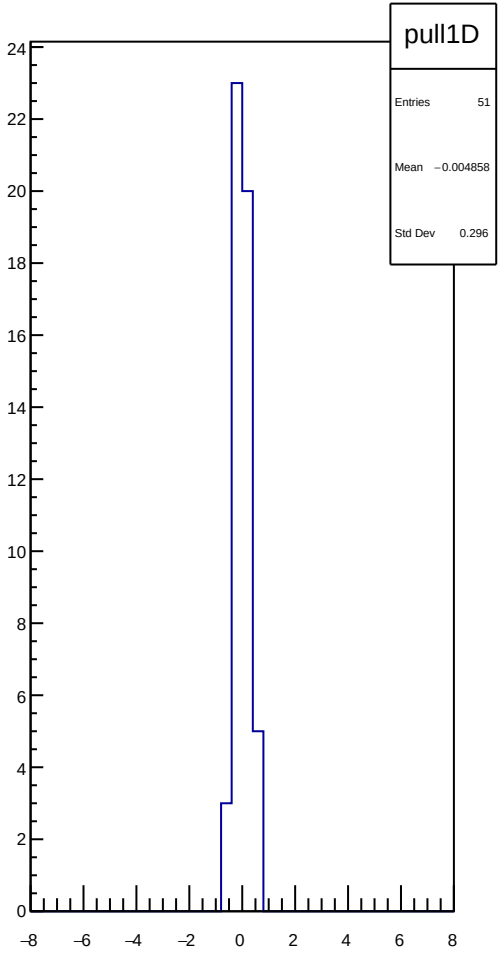

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.77 / 50
p0 96.26 ± 0.2728
pull
Entries 51
Mean −248.4
Std Dev 310.3

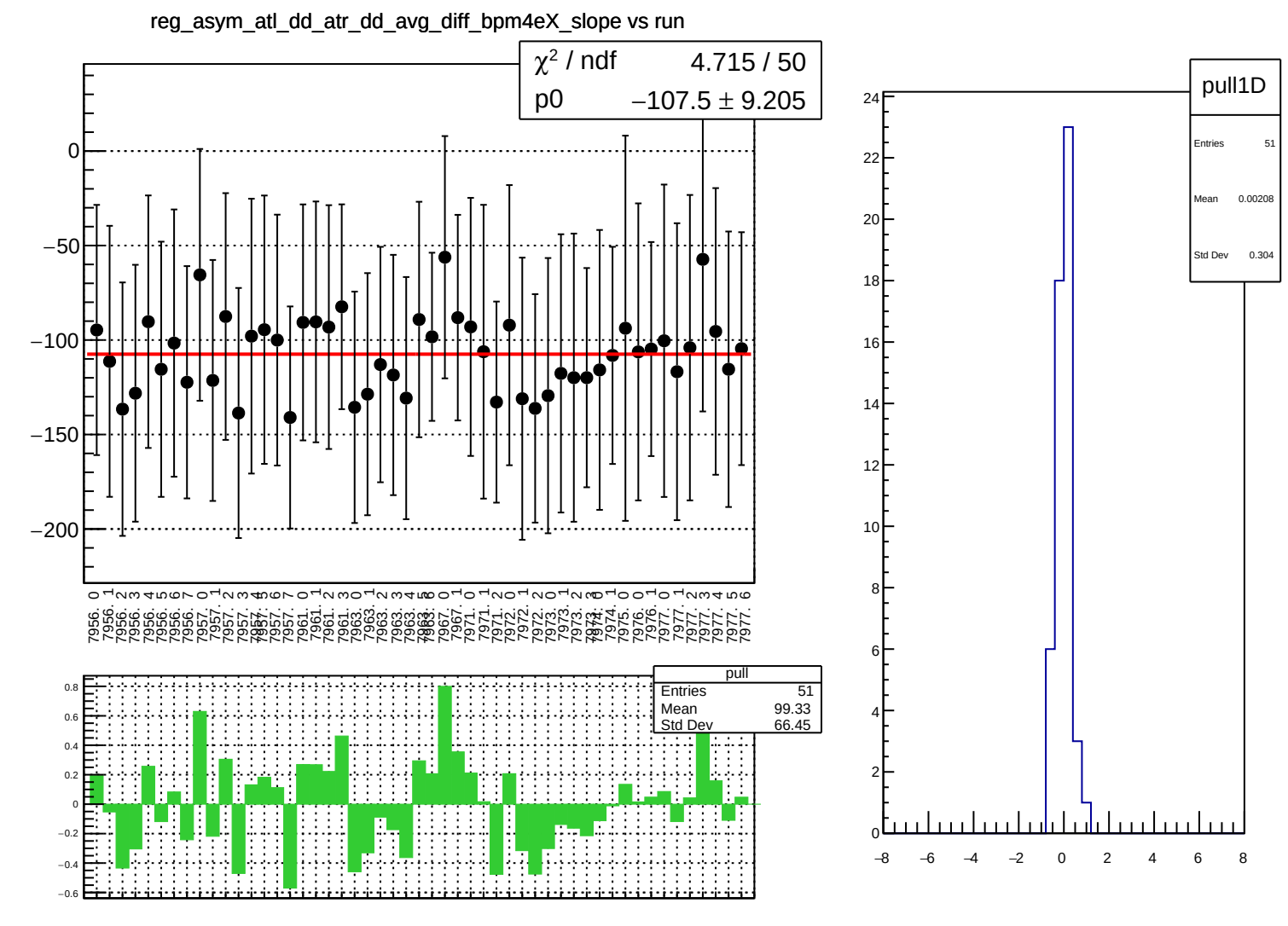

pull1D
Entries 51
Mean −0.002389
Std Dev 0.9264

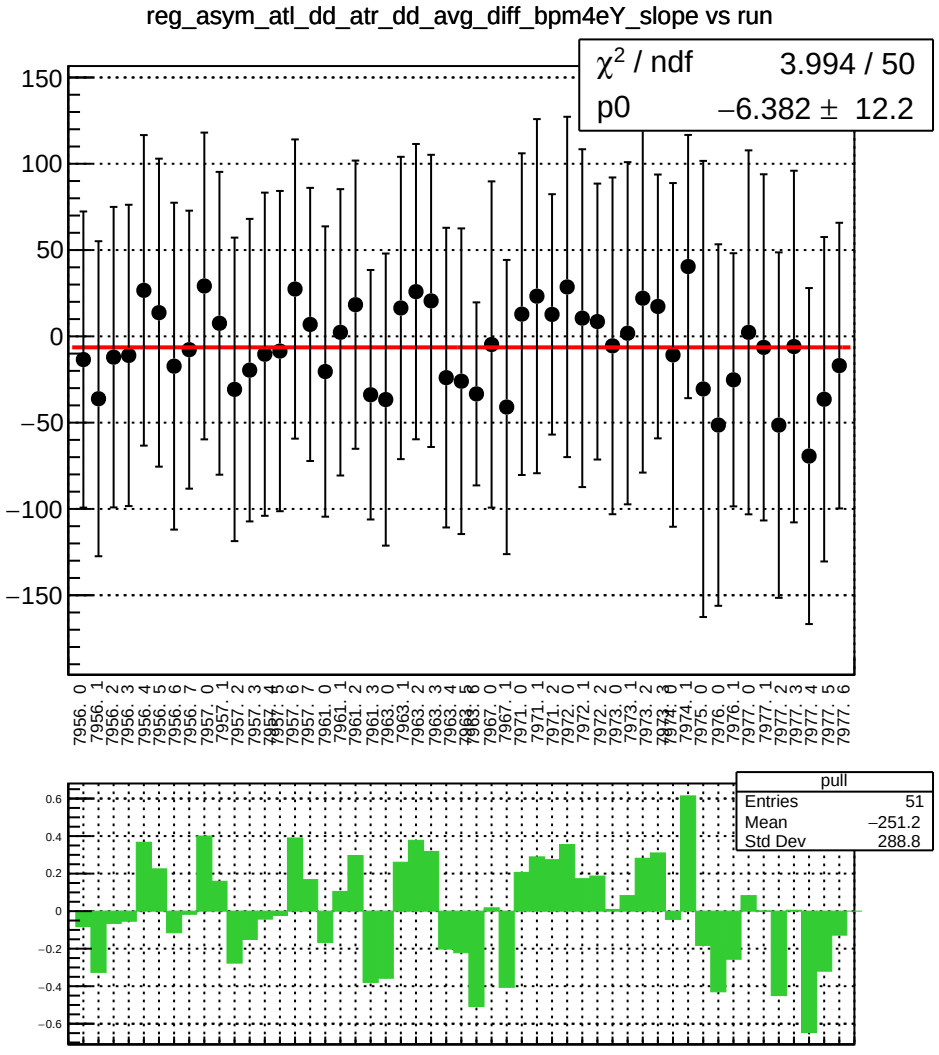

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 4.67 / 50
p0 99.98 ± 10.36
pull
Entries 51
Mean 174.5
Std Dev 146

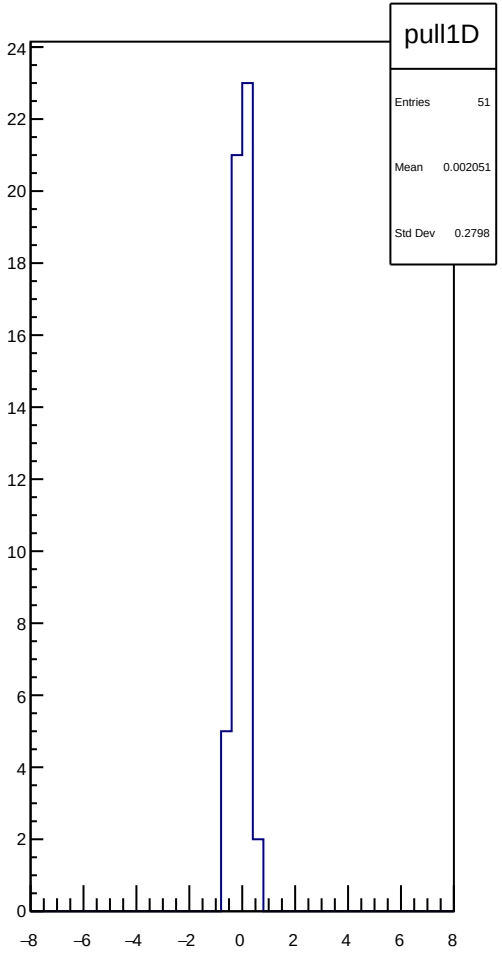

pull1D
Entries 51
Mean −0.0035
Std Dev 0.3026

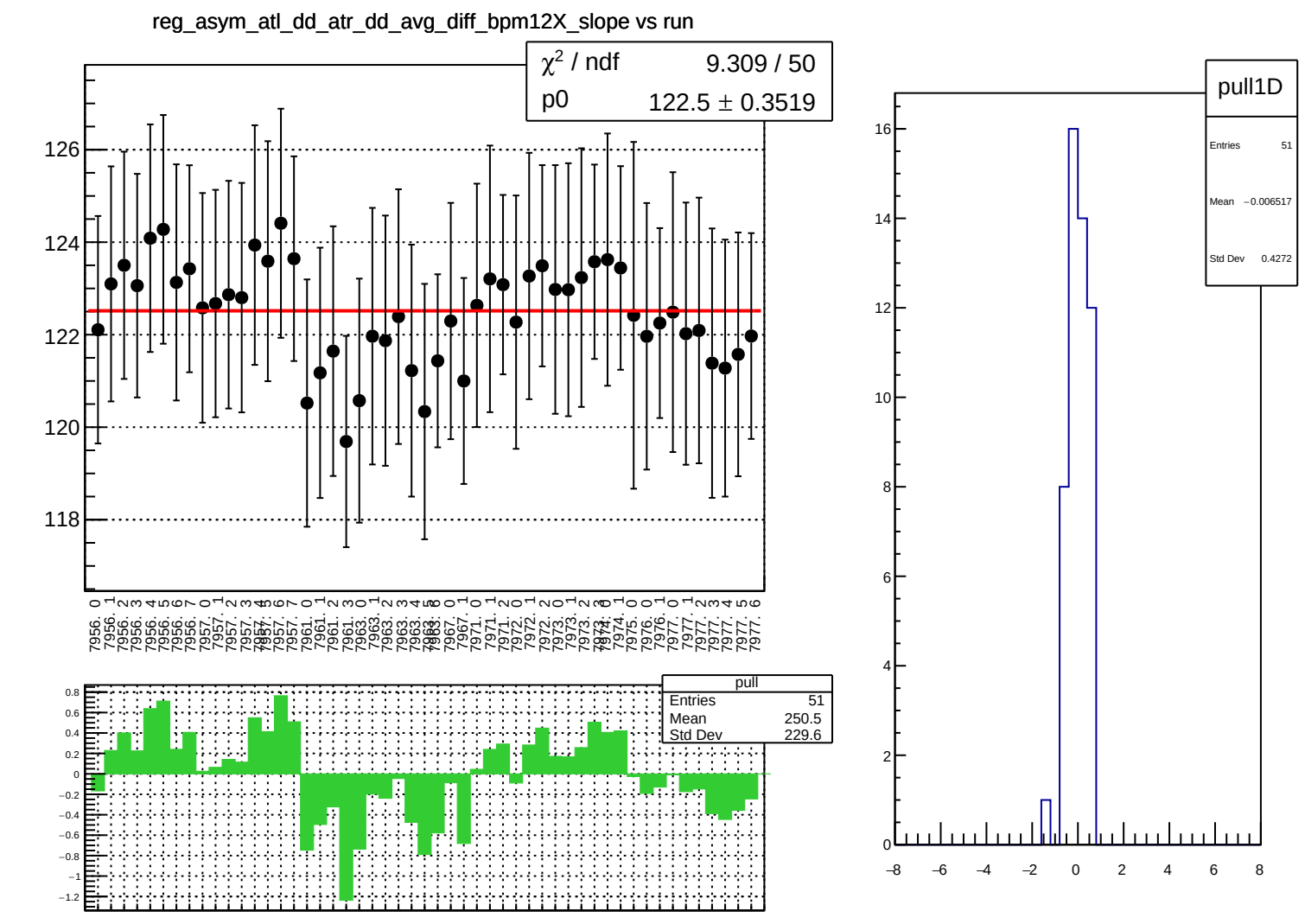

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.469 / 50
p0 −43.38 ± 10.65
pull
Entries 51
Mean 1.81
Std Dev 50.29

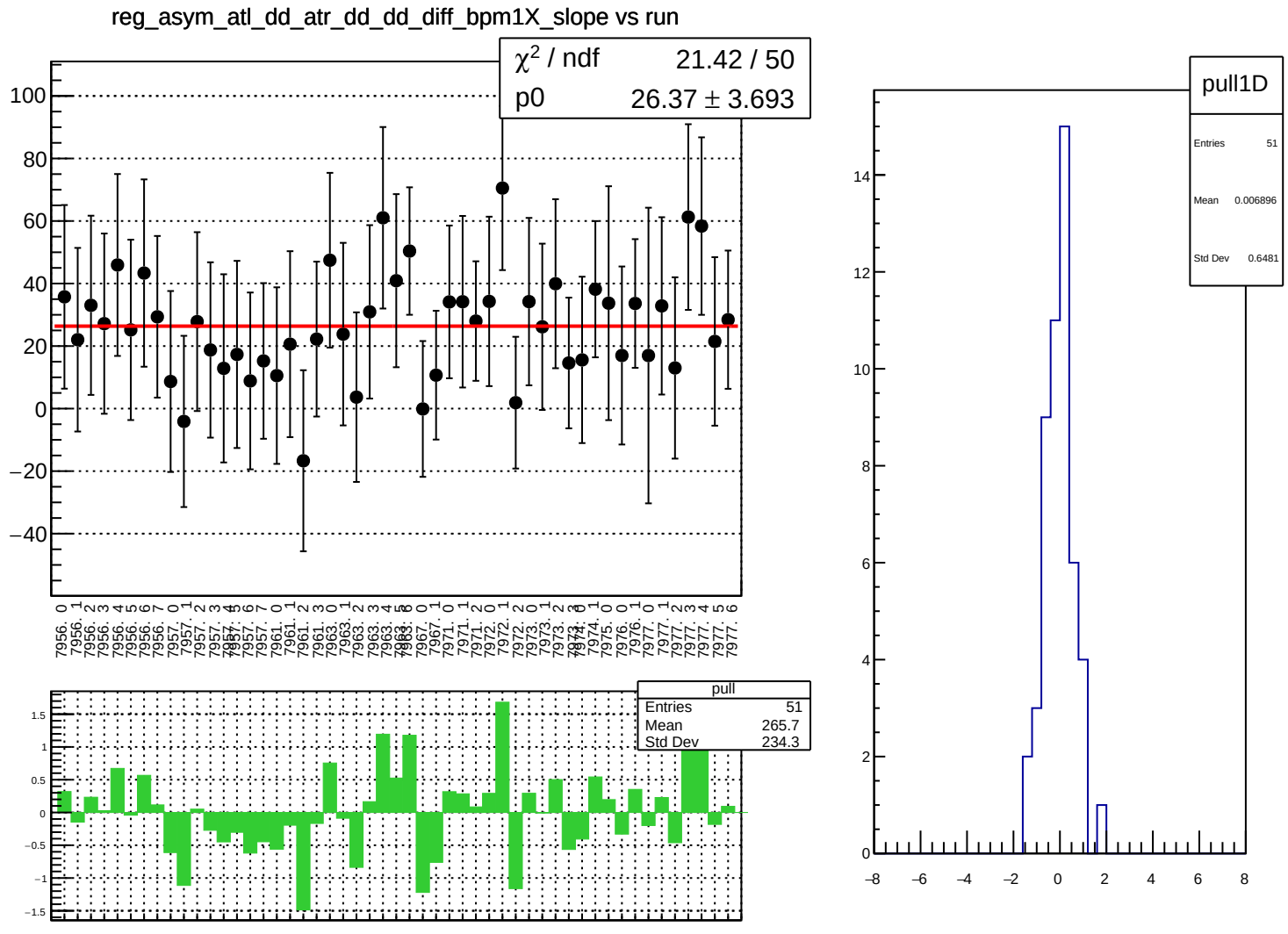

pull1D
Entries 51
Mean −0.004858
Std Dev 0.296

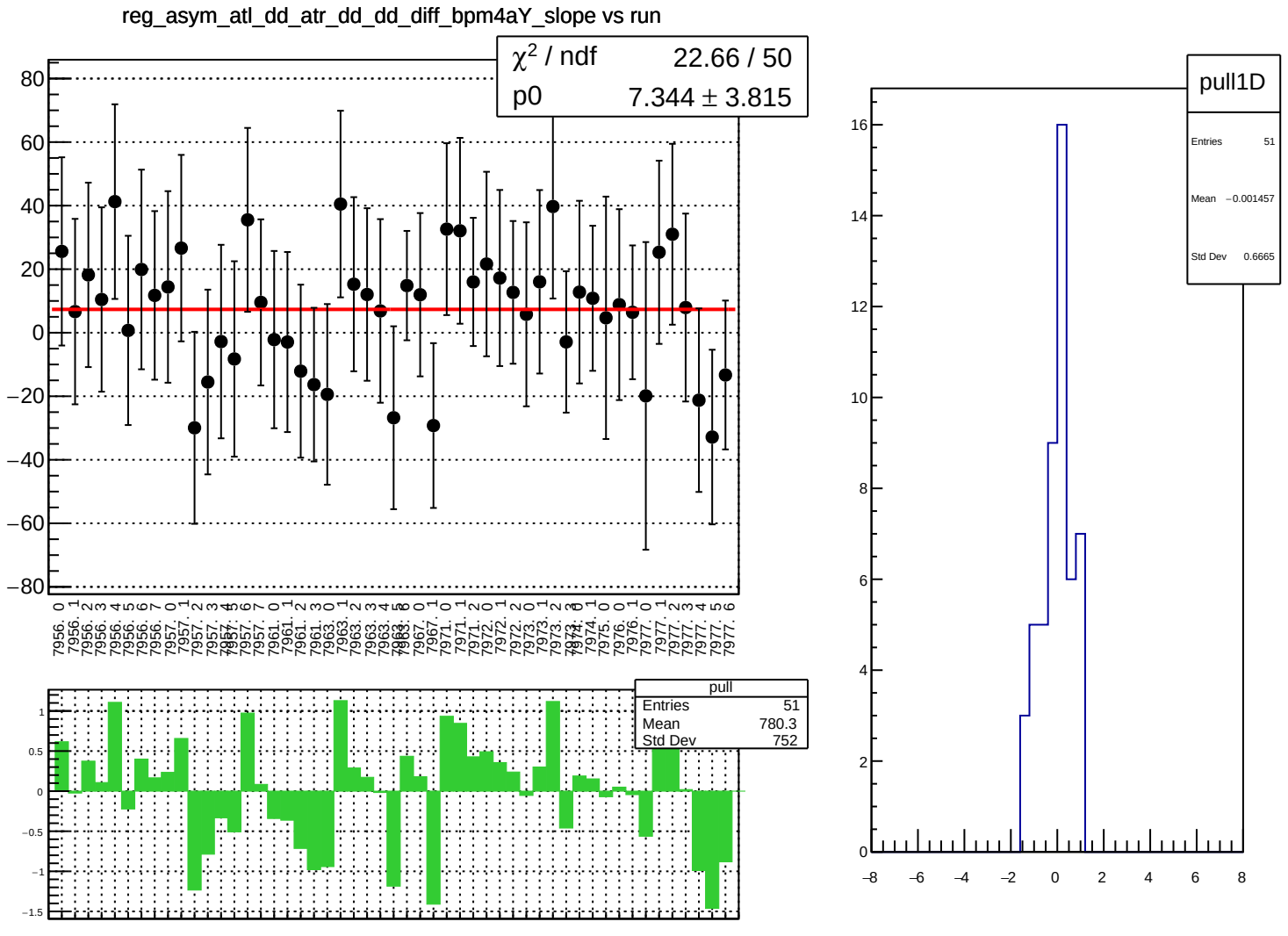

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.715 / 50
p0 −107.5 ± 9.205
pull
Entries 51
Mean 99.33
Std Dev 66.45
pull1D
Entries 51
Mean 0.00208
Std Dev 0.304

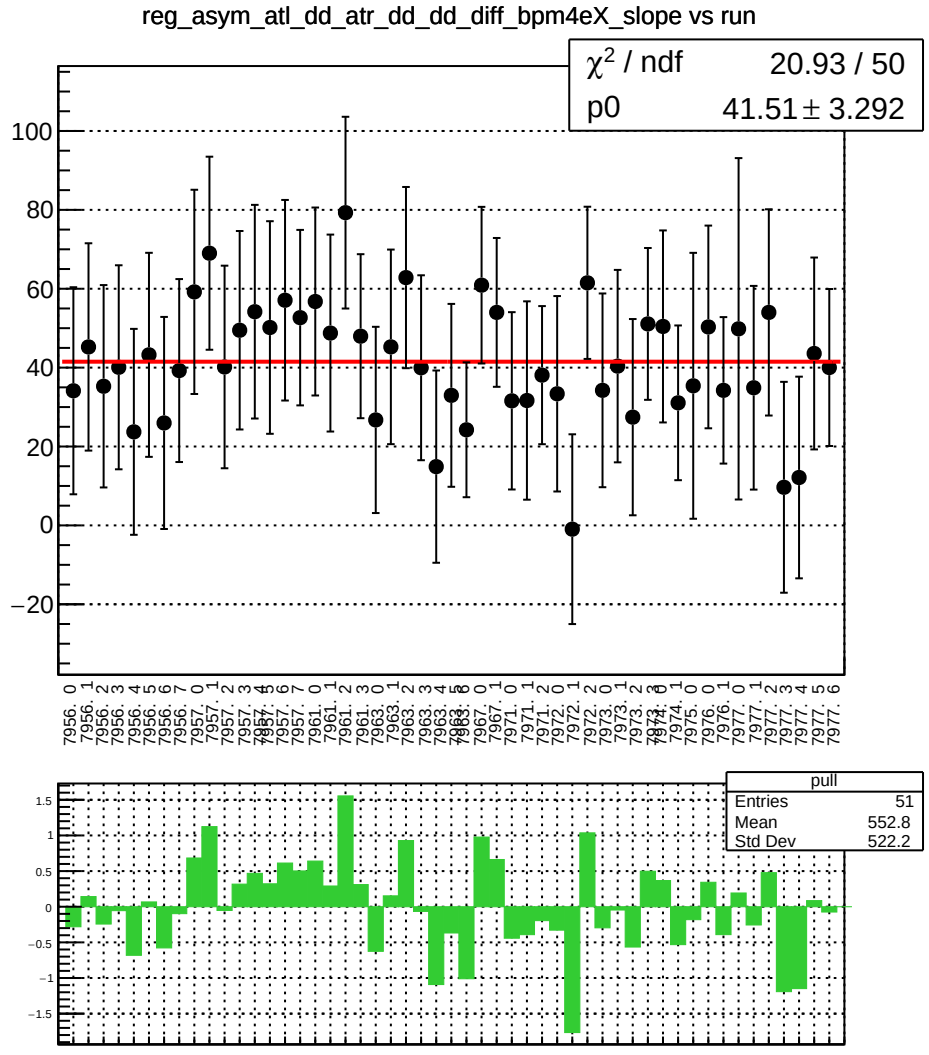

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.994 / 50
p0 −6.382 ± 12.2
pull
Entries 51
Mean −251.2
Std Dev 288.8

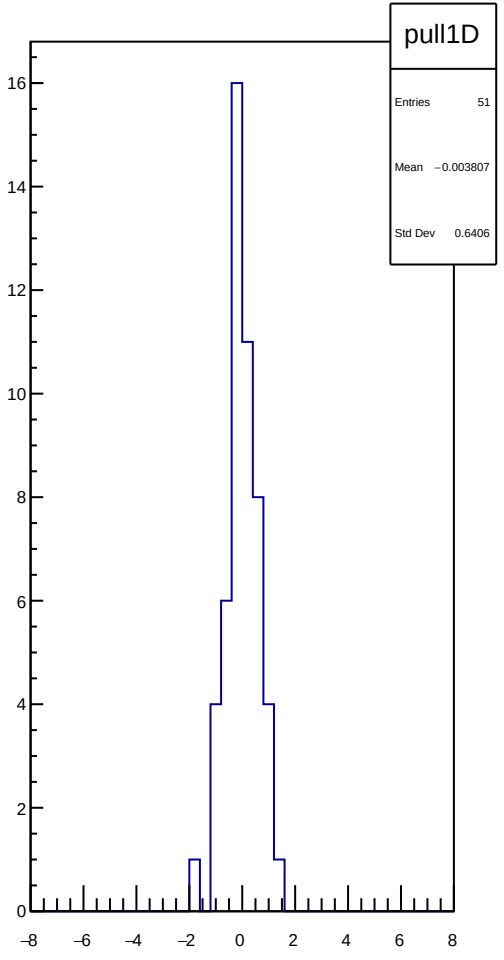

pull1D
Entries 51
Mean 0.002051
Std Dev 0.2798

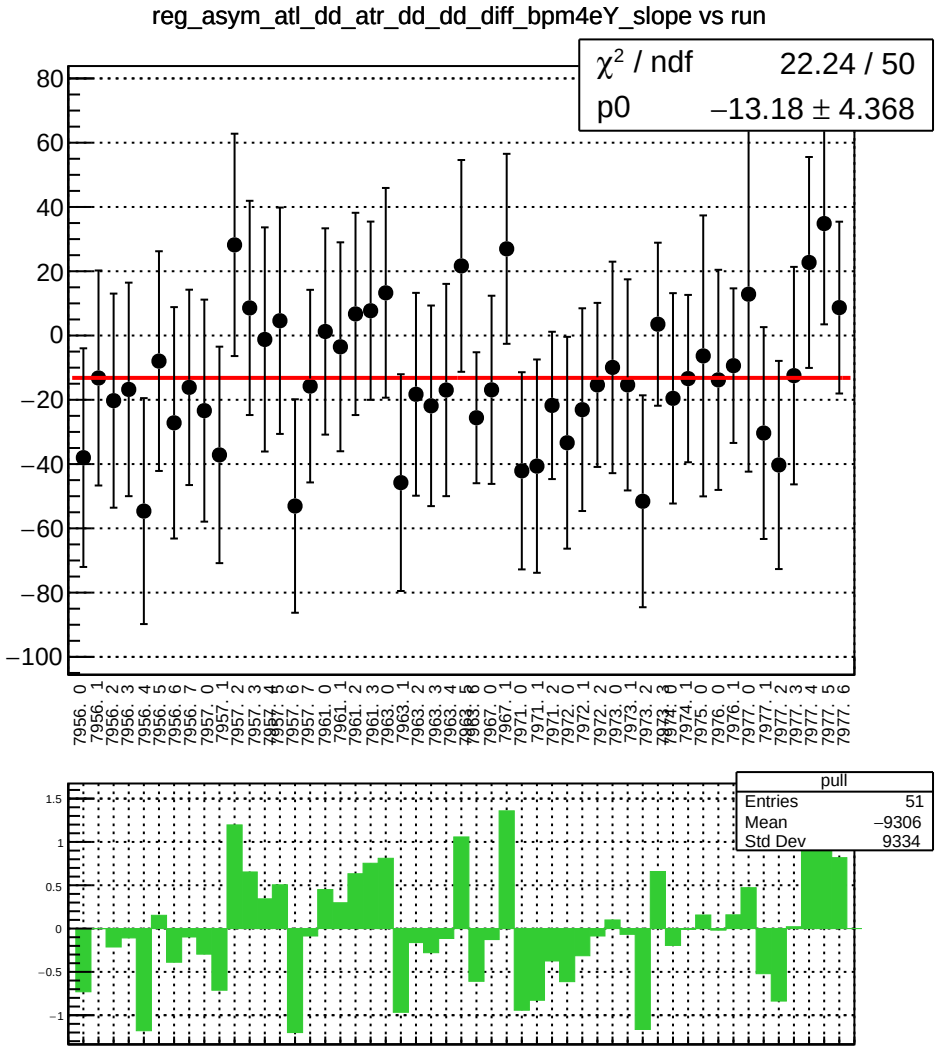

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 9.309 / 50
p0 122.5 ± 0.3519
pull
Entries 51
Mean 250.5
Std Dev 229.6
pull1D
Entries 51
Mean −0.006517
Std Dev 0.4272

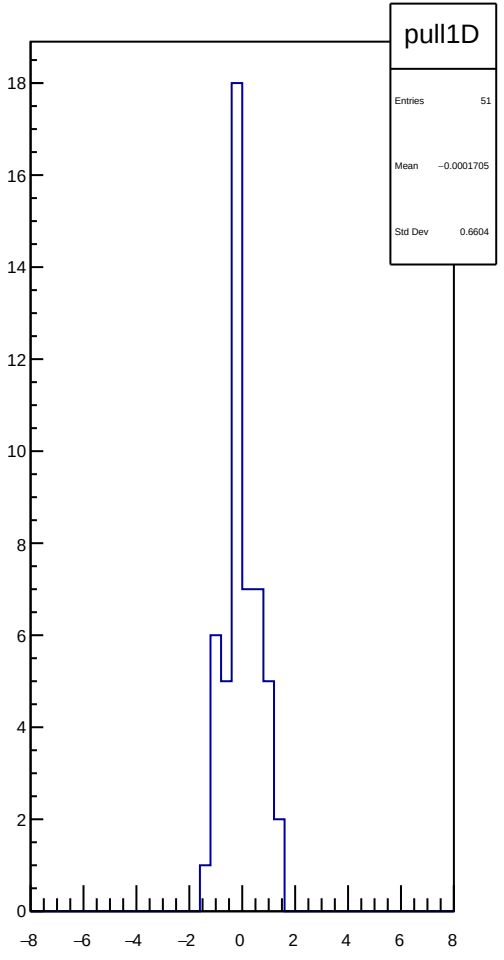

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 21.42 / 50
p0 26.37 ± 3.693
pull
Entries 51
Mean 265.7
Std Dev 234.3
pull1D
Entries 51
Mean 0.006896
Std Dev 0.6481

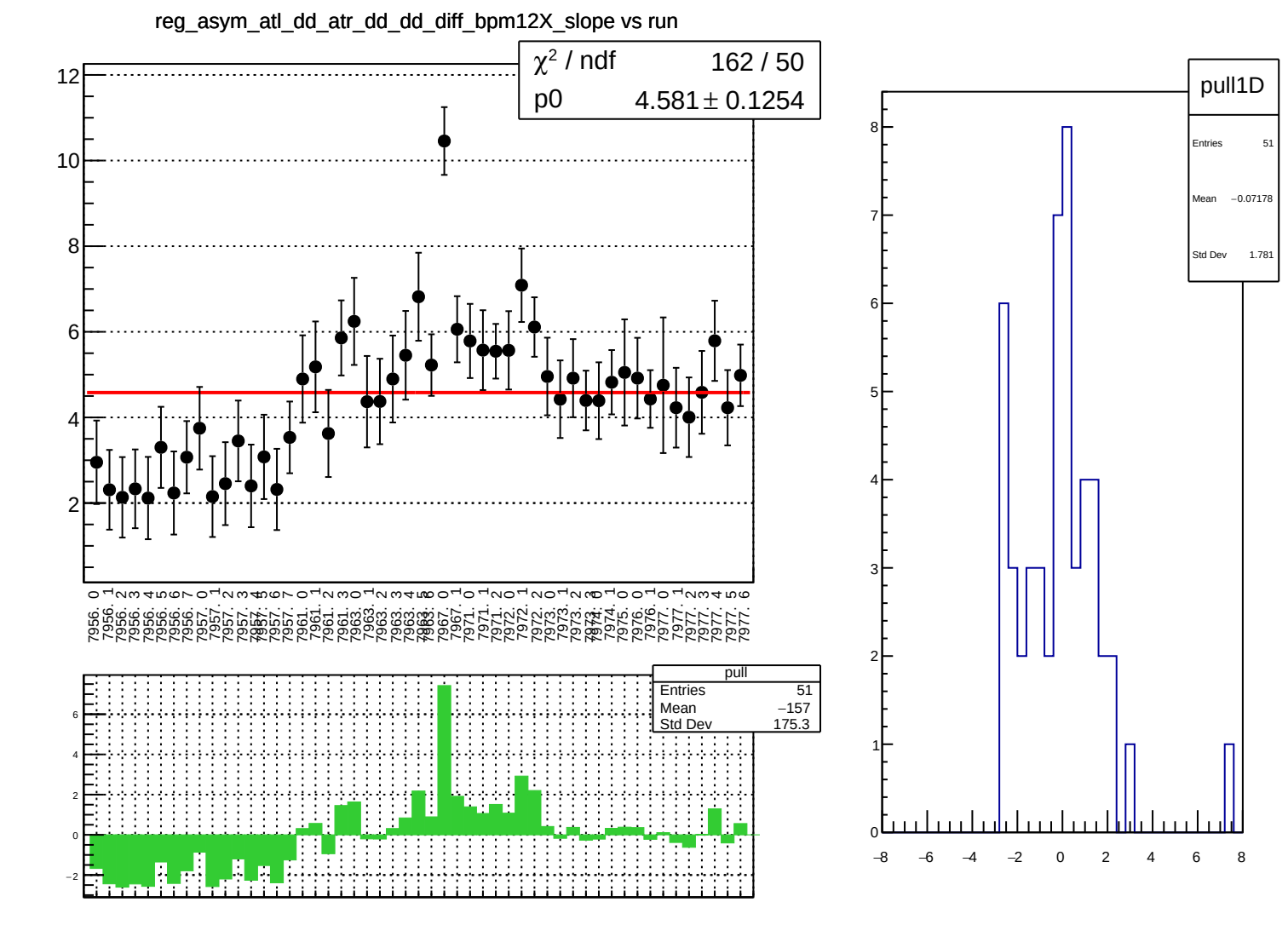

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.66 / 50
p0 7.344 ± 3.815
pull
Entries 51
Mean 780.3
Std Dev 752
pull1D
Entries 51
Mean −0.001457
Std Dev 0.6665

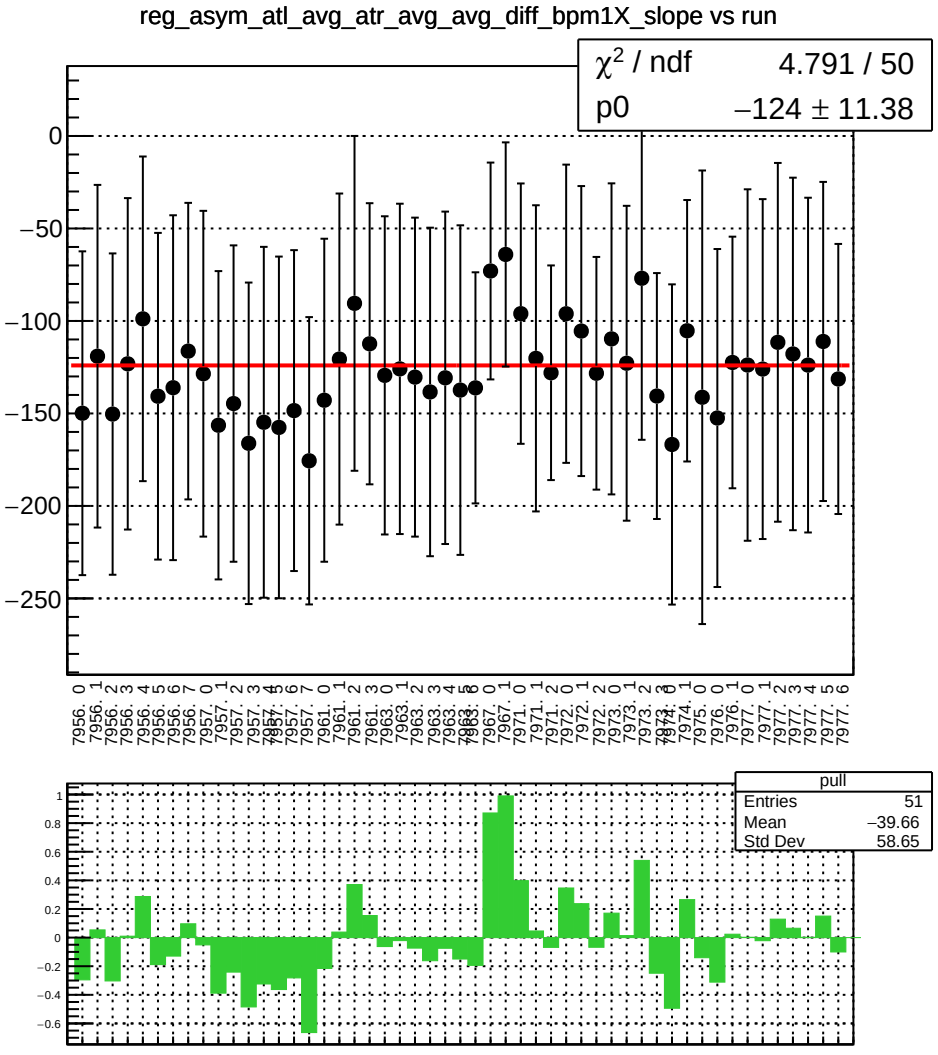

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.93 / 50
p0 41.51 ± 3.292
pull
Entries 51
Mean 552.8
Std Dev 522.2

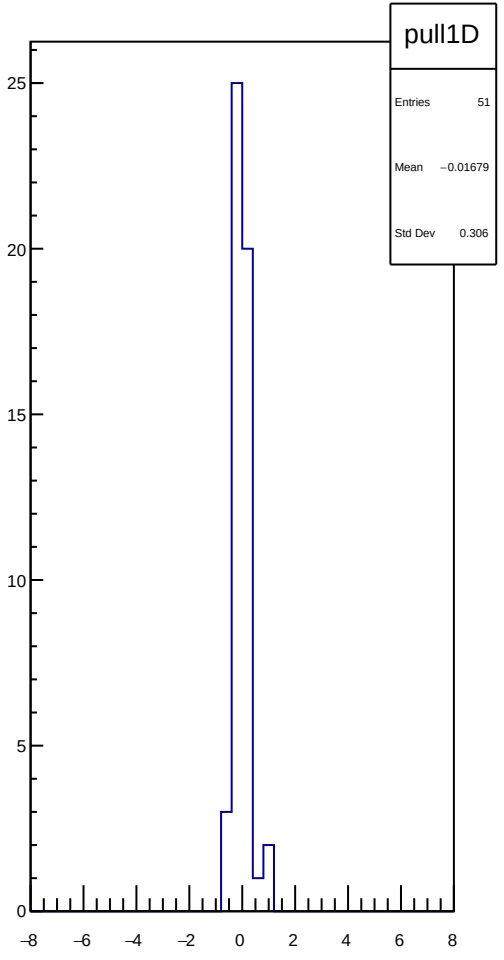

pull1D
Entries 51
Mean −0.003807
Std Dev 0.6406

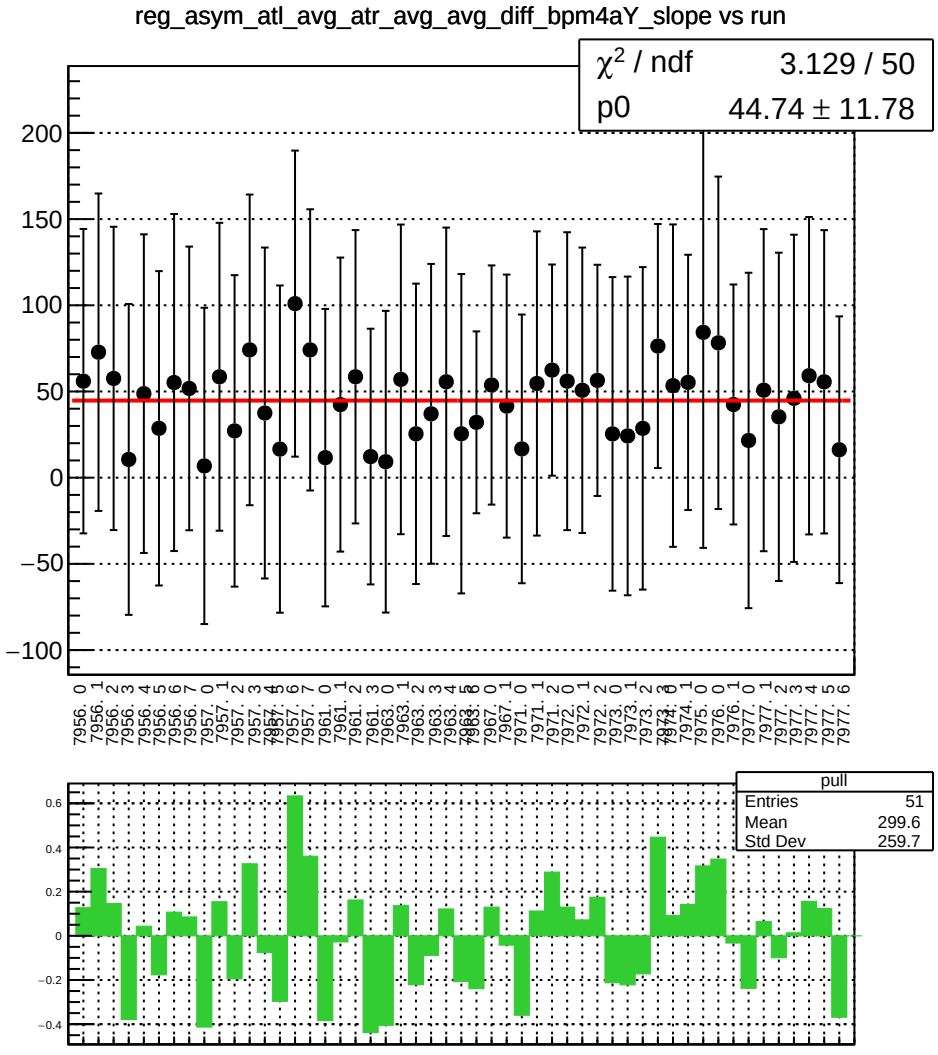

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.24 / 50
p0 −13.18 ± 4.368
pull
Entries 51
Mean −9306
Std Dev 9334

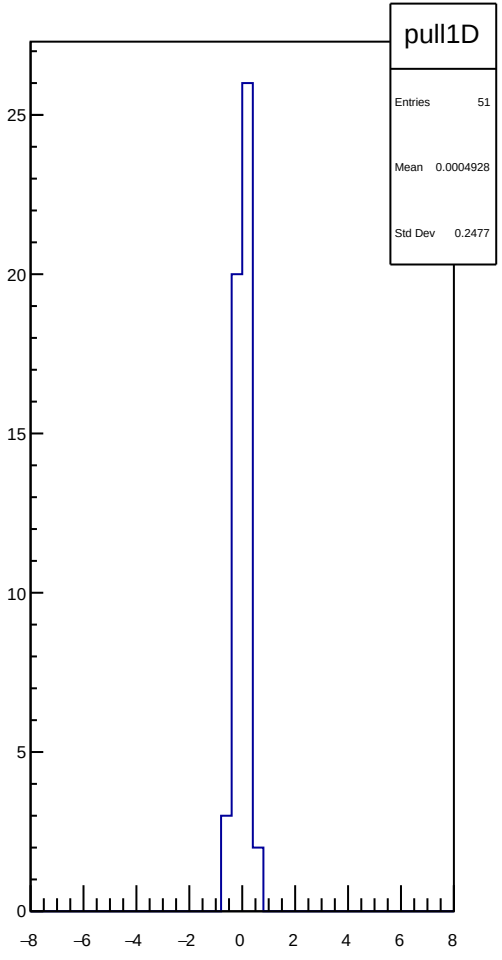

pull1D
Entries 51
Mean −0.0001705
Std Dev 0.6604

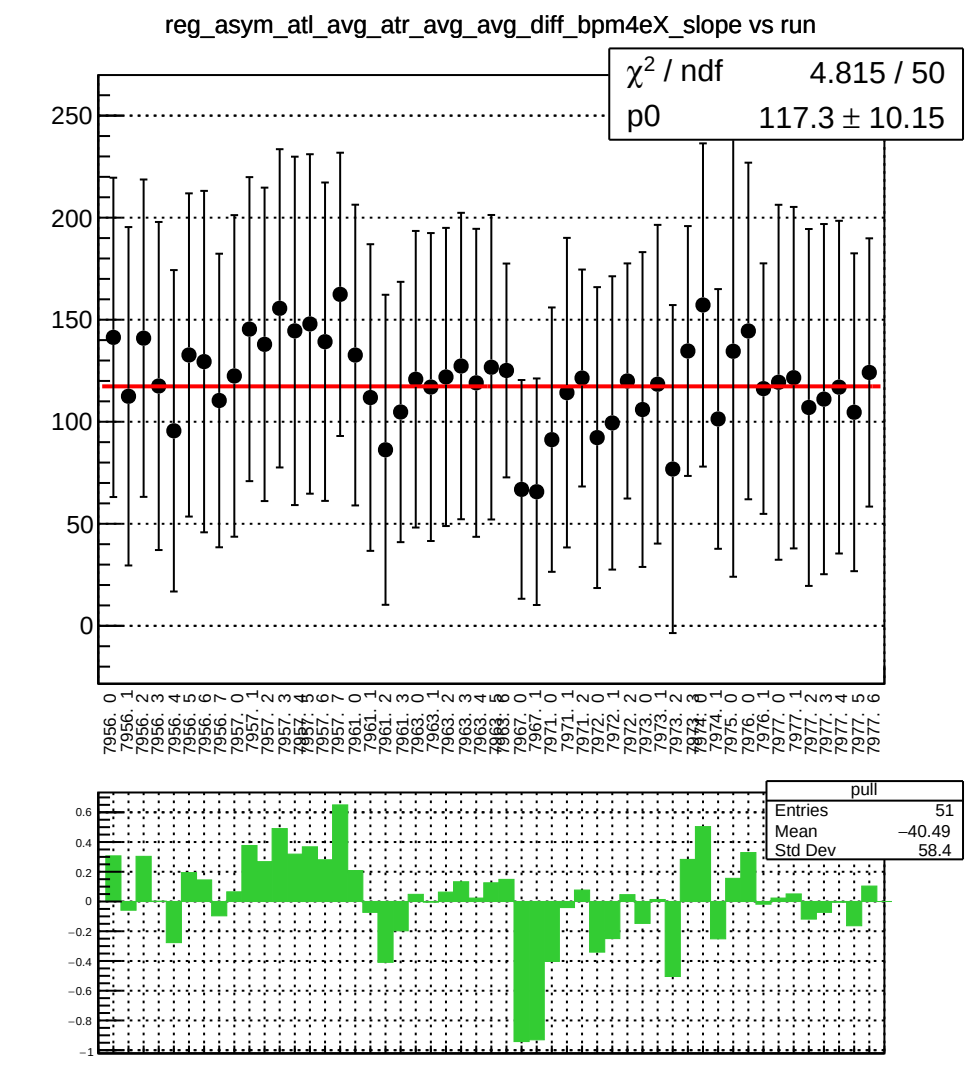

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 162 / 50
p0 4.581 ± 0.1254
pull
Entries 51
Mean −157
Std Dev 175.3
pull1D
Entries 51
Mean −0.07178
Std Dev 1.781

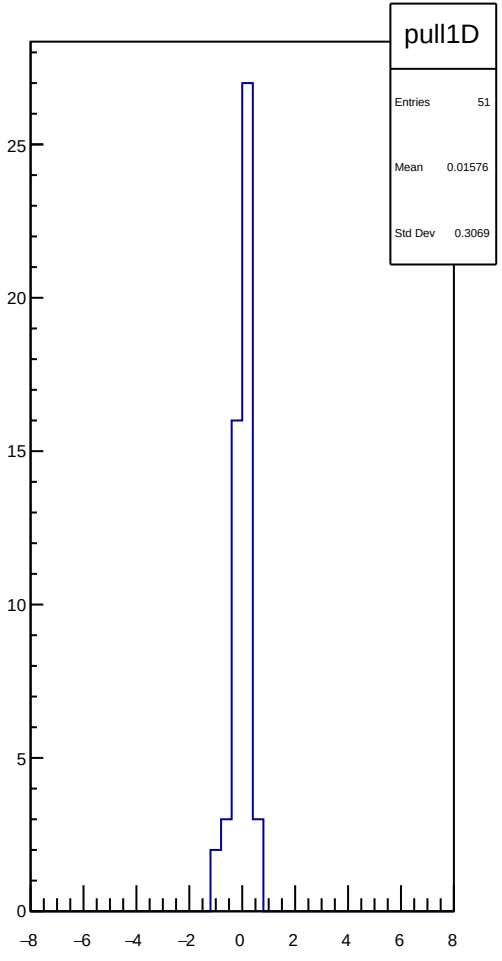

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 4.791 / 50
p0 −124 ± 11.38
pull
Entries 51
Mean −39.66
Std Dev 58.65

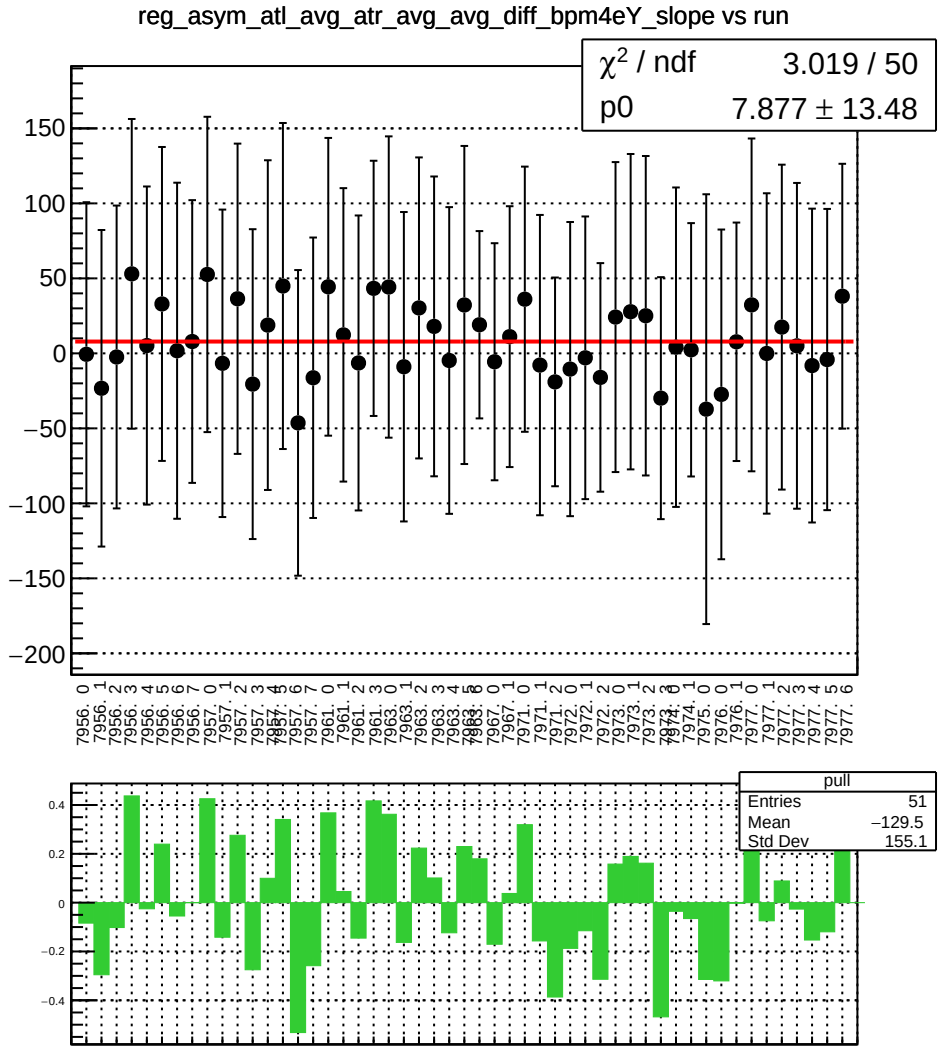

pull1D
Entries 51
Mean −0.01679
Std Dev 0.306

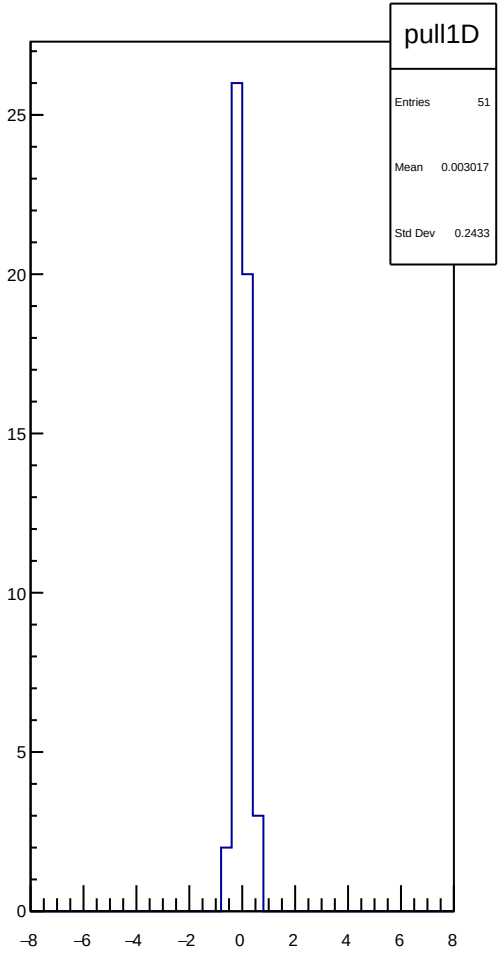

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.129 / 50
p0 44.74 ± 11.78
200
150
100
50
0
−50
−100
pull
Entries 51
Mean 299.6
Std Dev 259.7
0.6
0.4
0.2
0
−0.2
−0.4

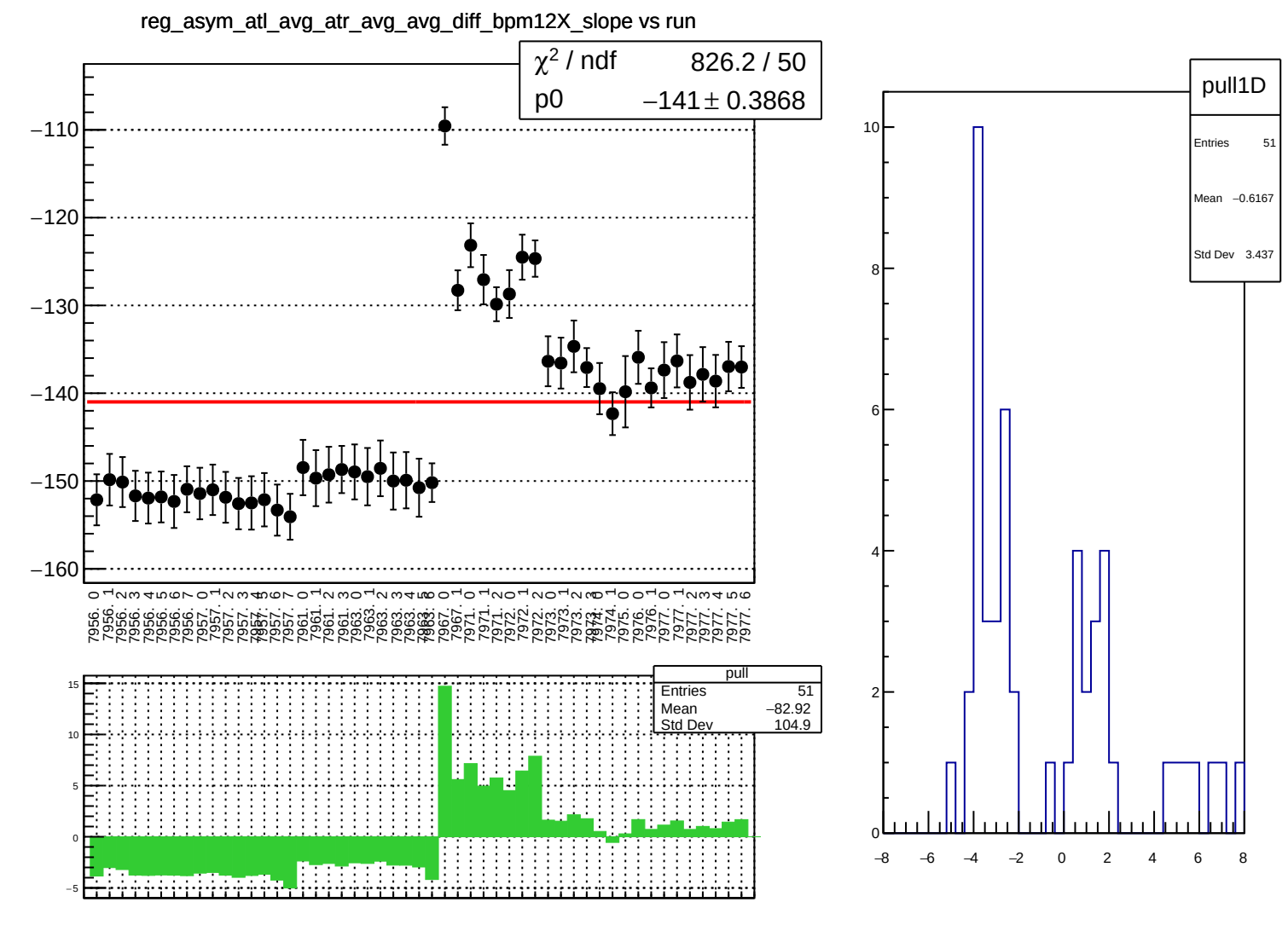

pull1D
Entries 51
Mean 0.0004928
Std Dev 0.2477
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

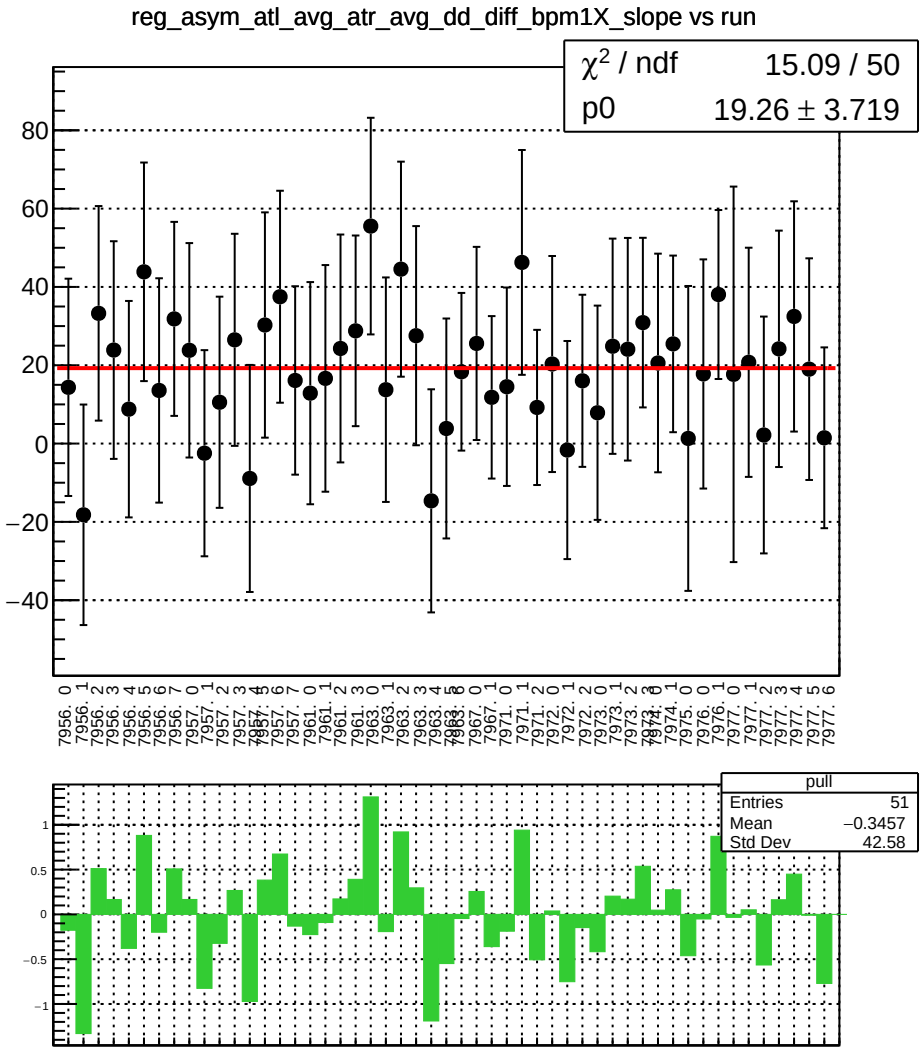

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.815 / 50
p0 117.3 ± 10.15
pull
Entries 51
Mean −40.49
Std Dev 58.4

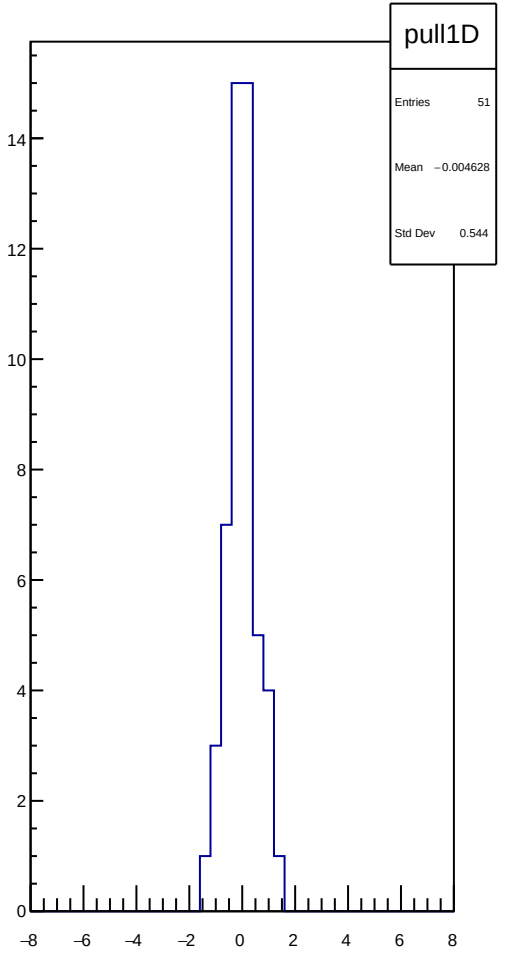

pull1D
Entries 51
Mean 0.01576
Std Dev 0.3069

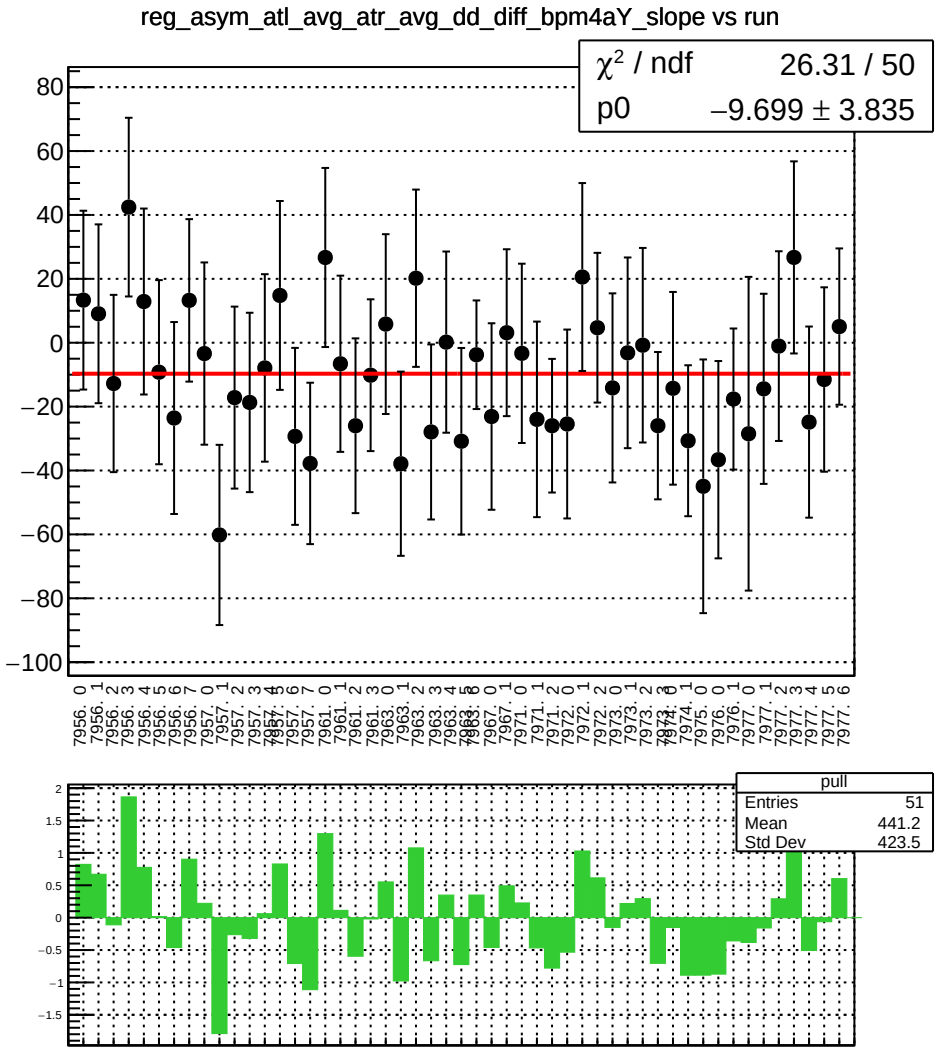

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.019 / 50
p0 7.877 ± 13.48
pull
Entries 51
Mean −129.5
Std Dev 155.1

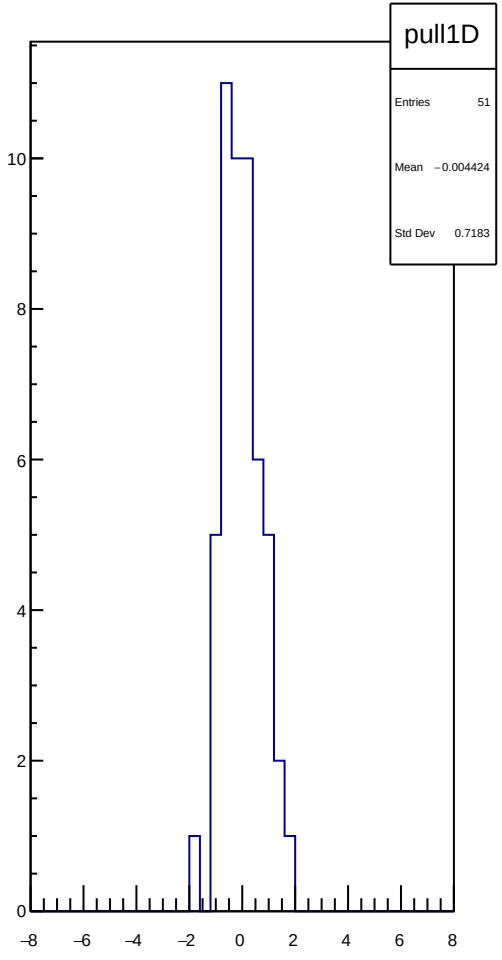

pull1D
Entries 51
Mean 0.003017
Std Dev 0.2433

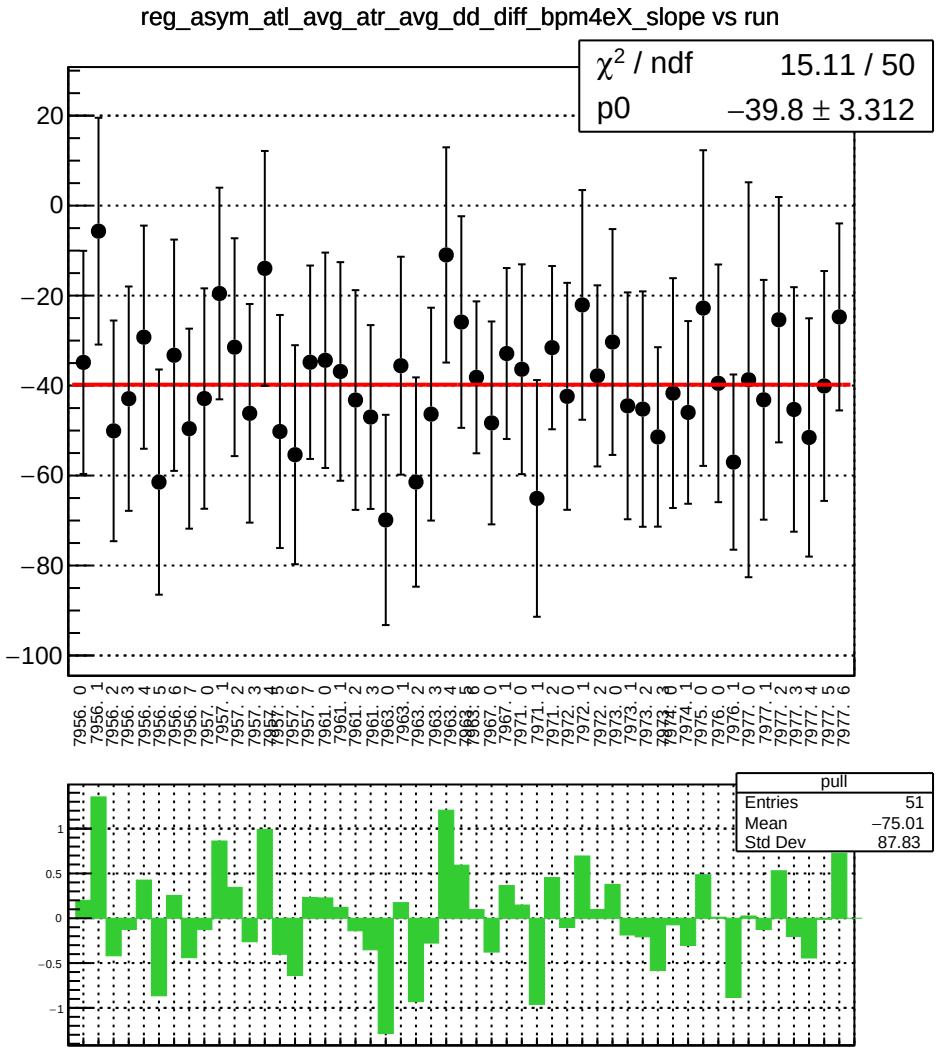

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 826.2 / 50
p0 −141 ± 0.3868
pull
Entries 51
Mean −82.92
Std Dev 104.9
pull1D
Entries 51
Mean −0.6167
Std Dev 3.437

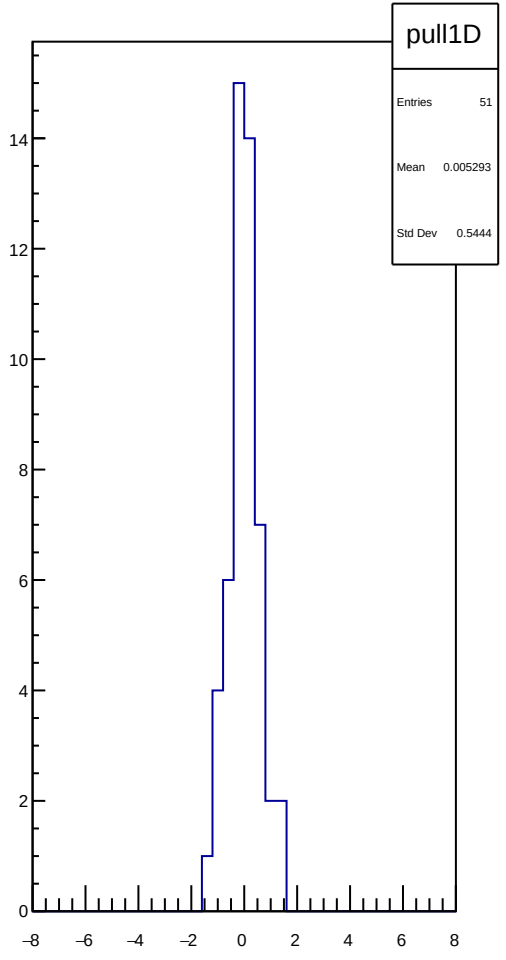

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 15.09 / 50
p0 19.26 ± 3.719
pull
Entries 51
Mean −0.3457
Std Dev 42.58

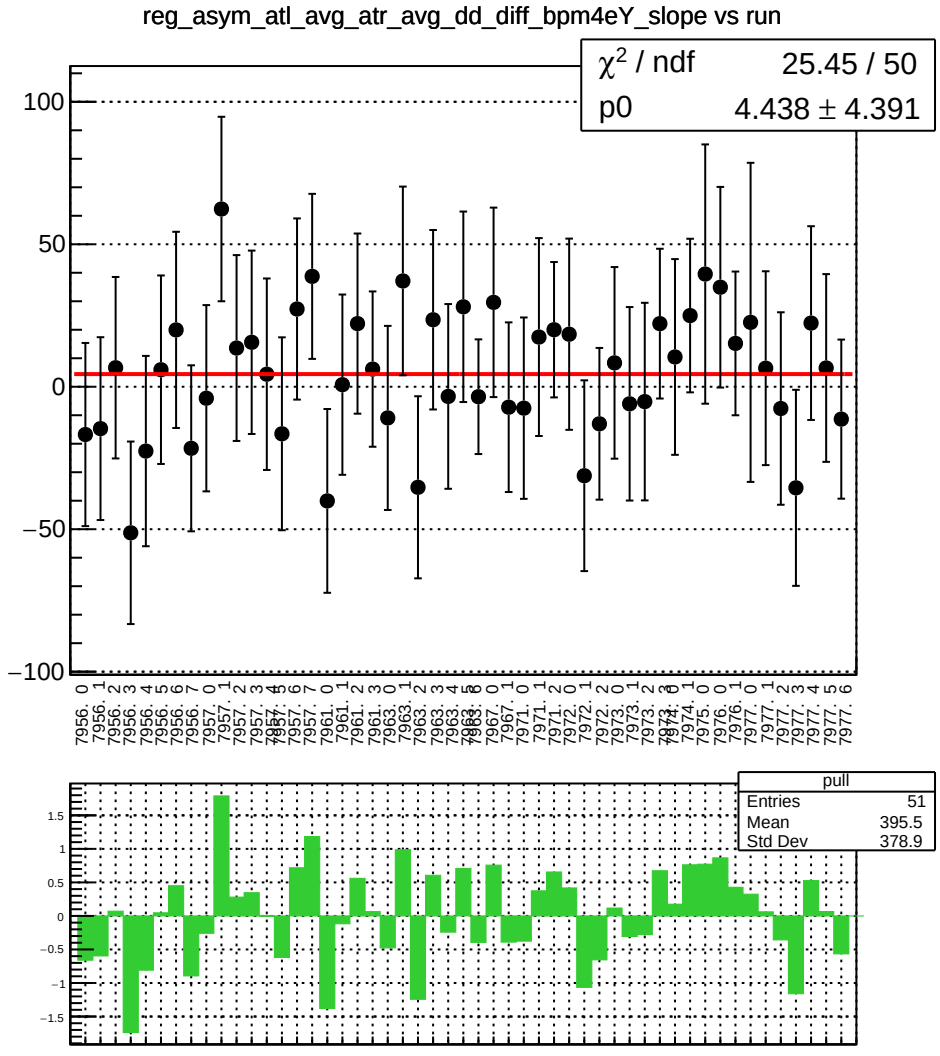

pull1D
Entries 51
Mean −0.004628
Std Dev 0.544

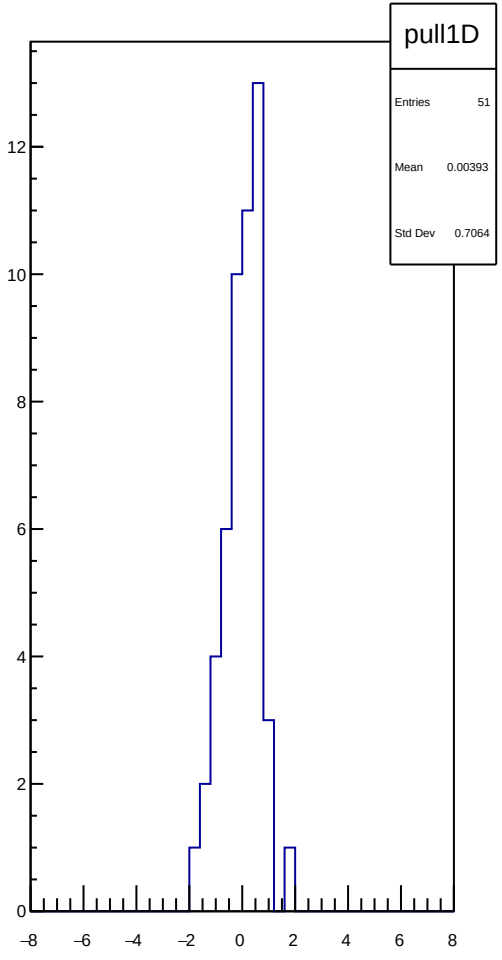

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.31 / 50
p0 −9.699 ± 3.835
pull
Entries 51
Mean 441.2
Std Dev 423.5

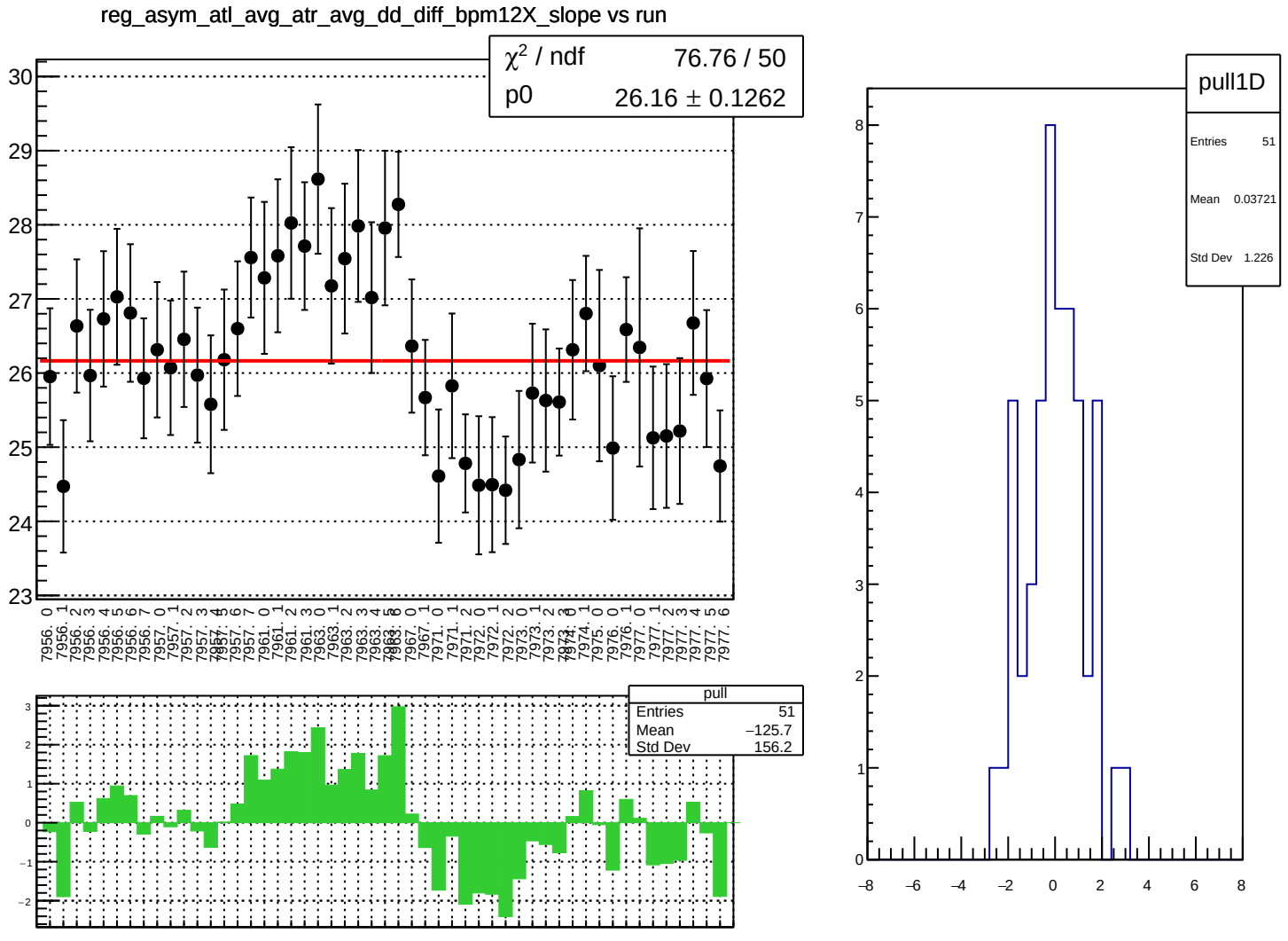

pull1D
Entries 51
Mean −0.004424
Std Dev 0.7183

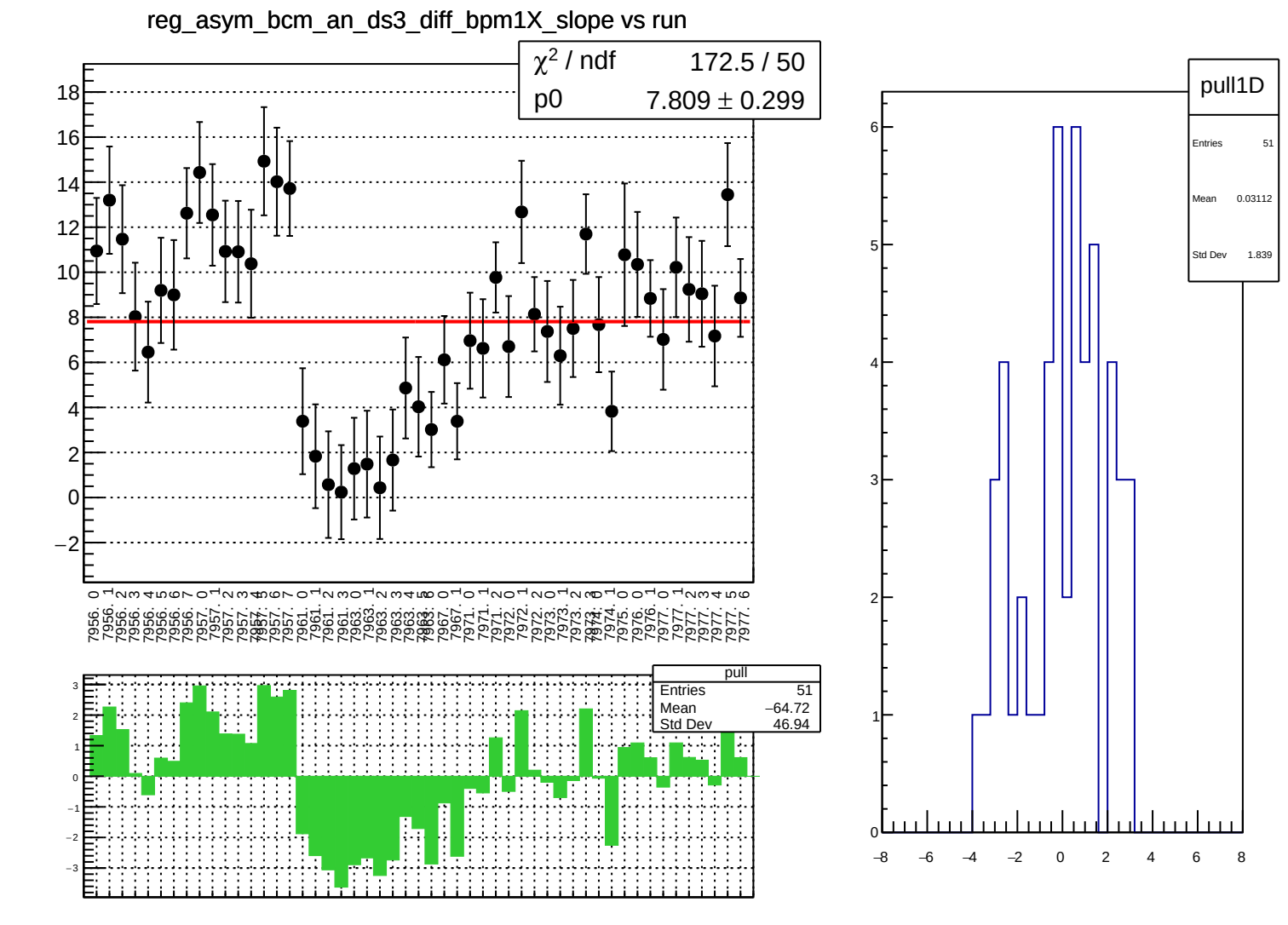

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.11 / 50
p0 −39.8 ± 3.312
pull
Entries 51
Mean −75.01
Std Dev 87.83

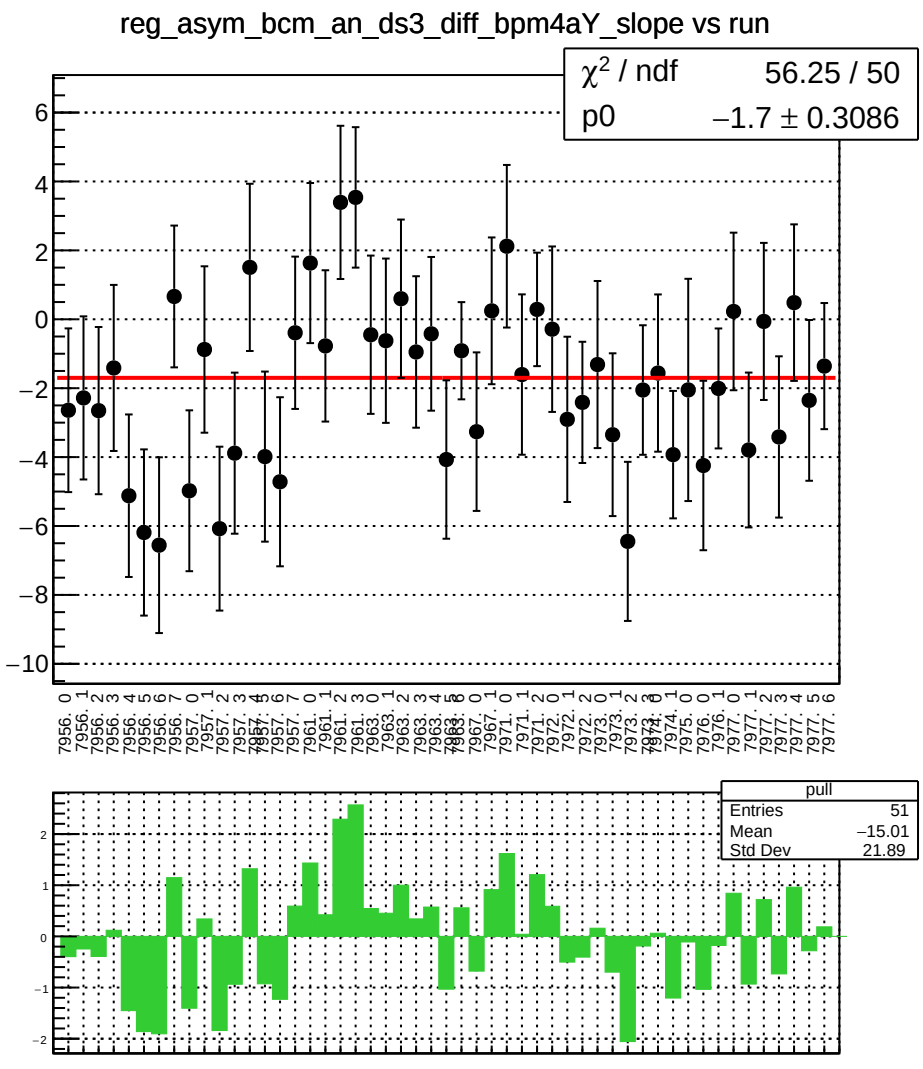

pull1D
Entries 51
Mean 0.005293
Std Dev 0.5444

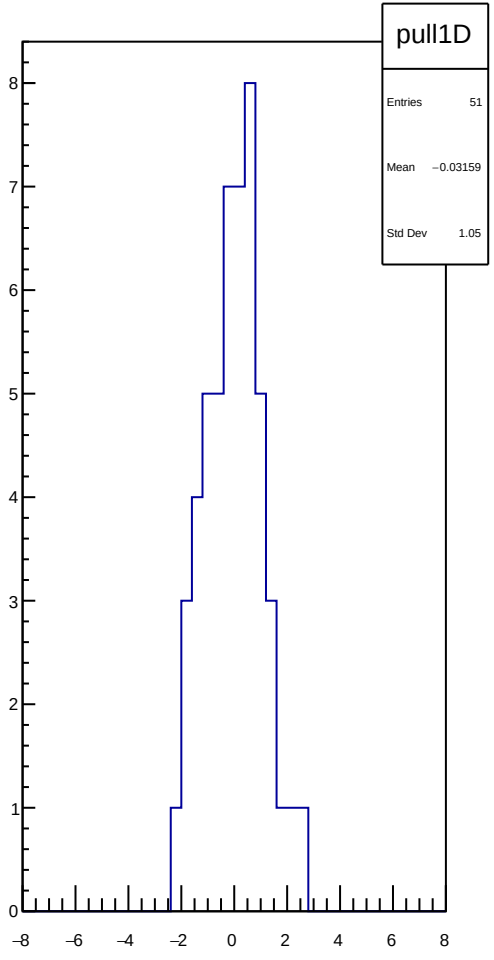

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.45 / 50
p0 4.438 ± 4.391
pull
Entries 51
Mean 395.5
Std Dev 378.9

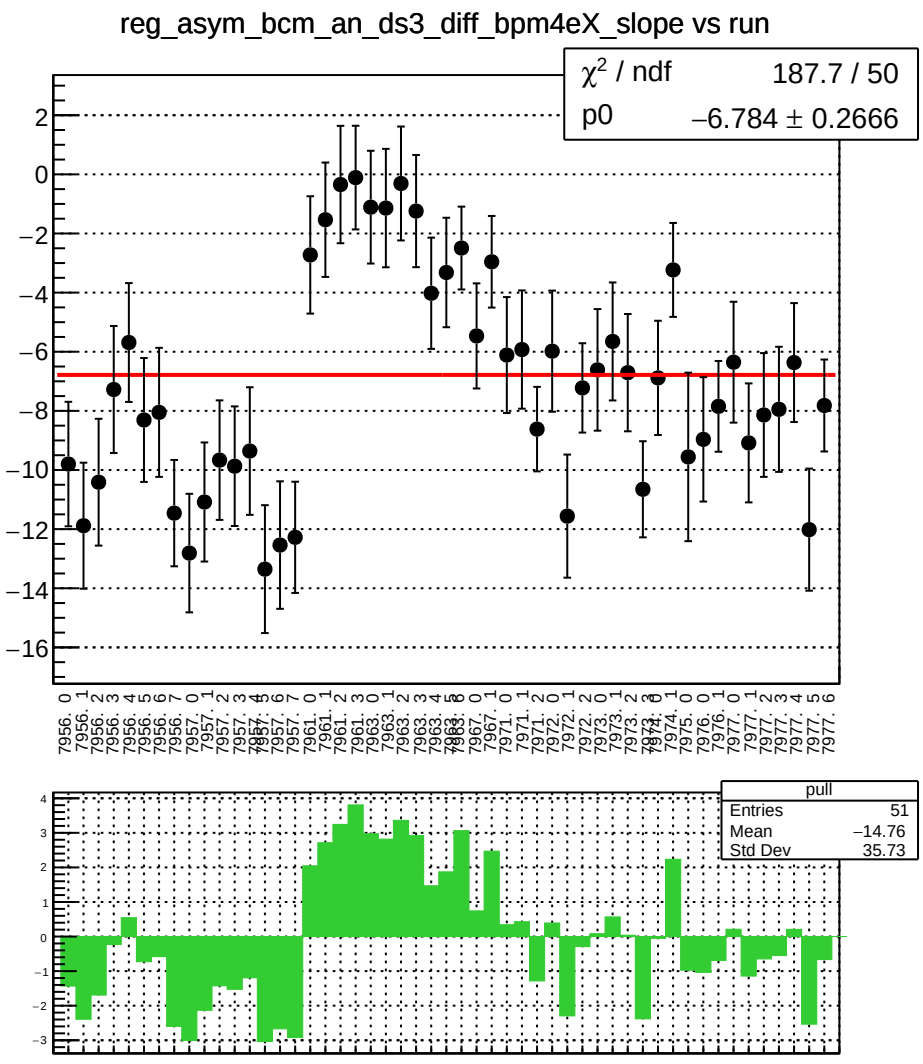

pull1D
Entries 51
Mean 0.00393
Std Dev 0.7064

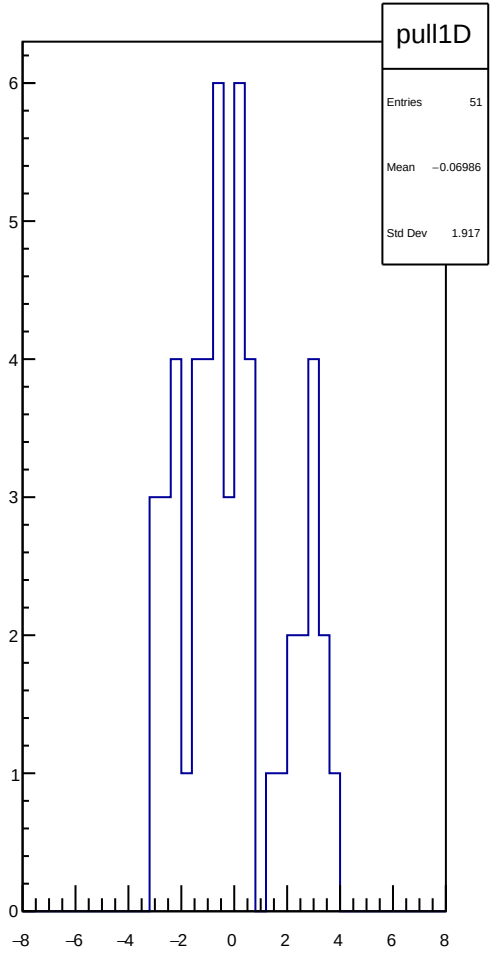

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 76.76 / 50
p0 26.16 ± 0.1262
pull
Entries 51
Mean −125.7
Std Dev 156.2
pull1D
Entries 51
Mean 0.03721
Std Dev 1.226

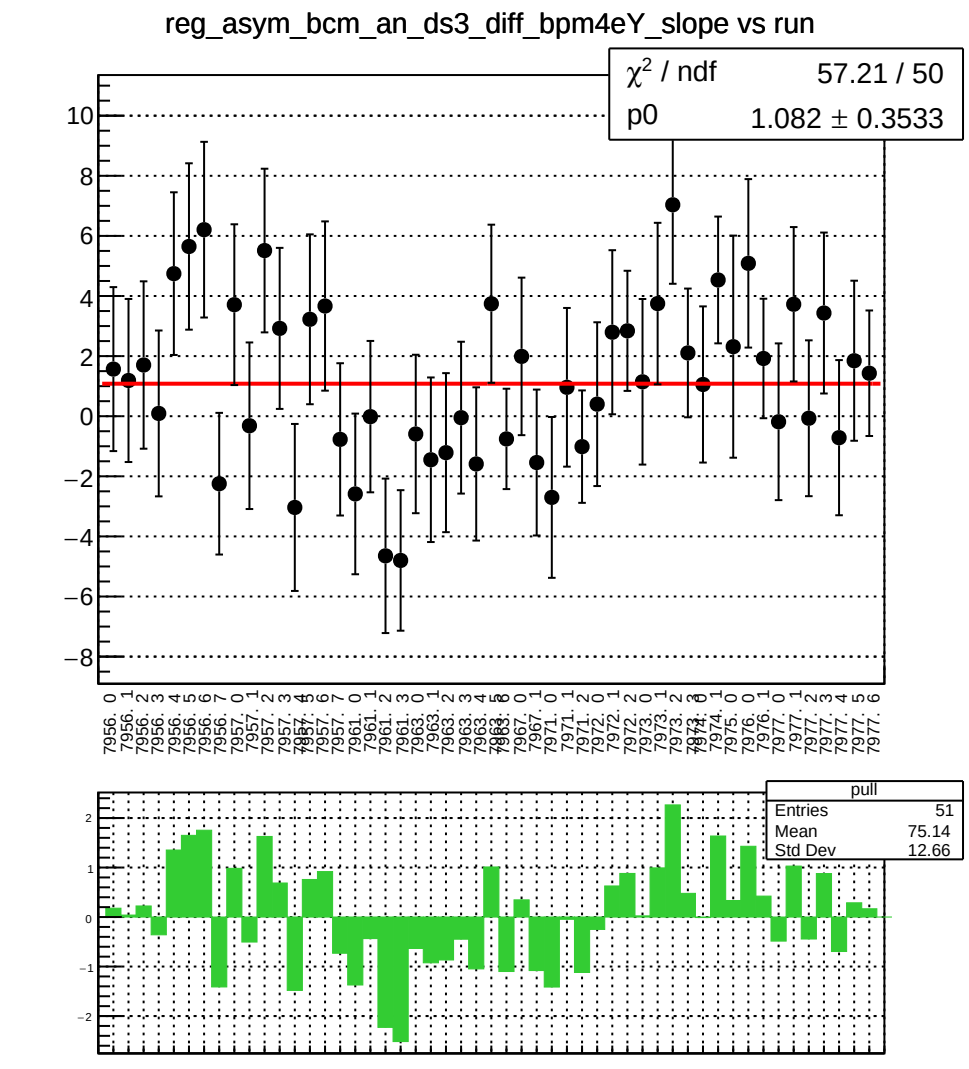

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 172.5 / 50
p0 7.809 ± 0.299
pull
Entries 51
Mean −64.72
Std Dev 46.94
pull1D
Entries 51
Mean 0.03112
Std Dev 1.839

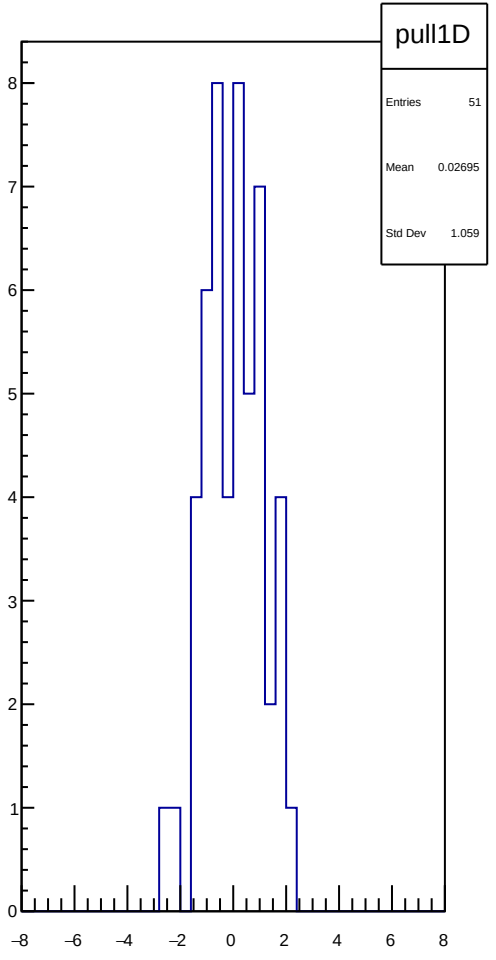

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 56.25 / 50
p0 −1.7 ± 0.3086
pull
Entries 51
Mean −15.01
Std Dev 21.89

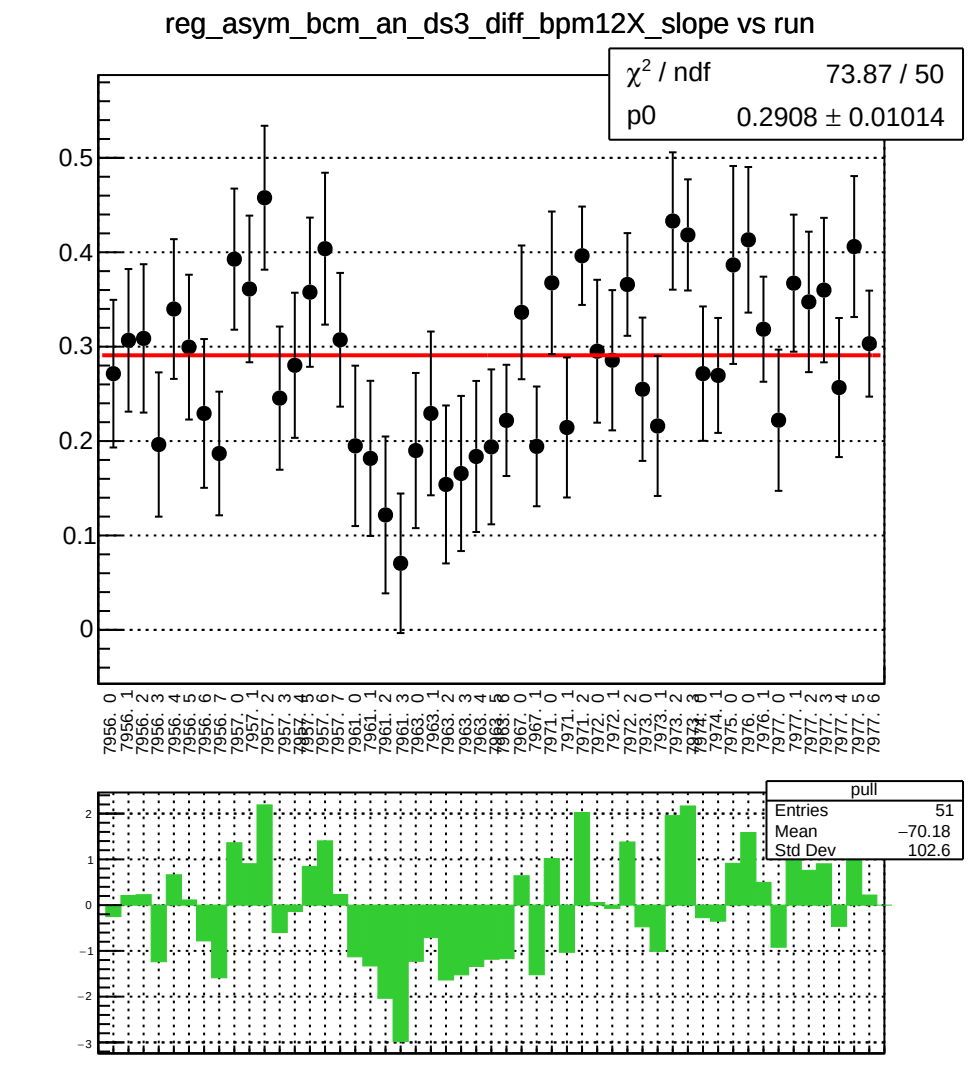

pull1D
Entries 51
Mean −0.03159
Std Dev 1.05

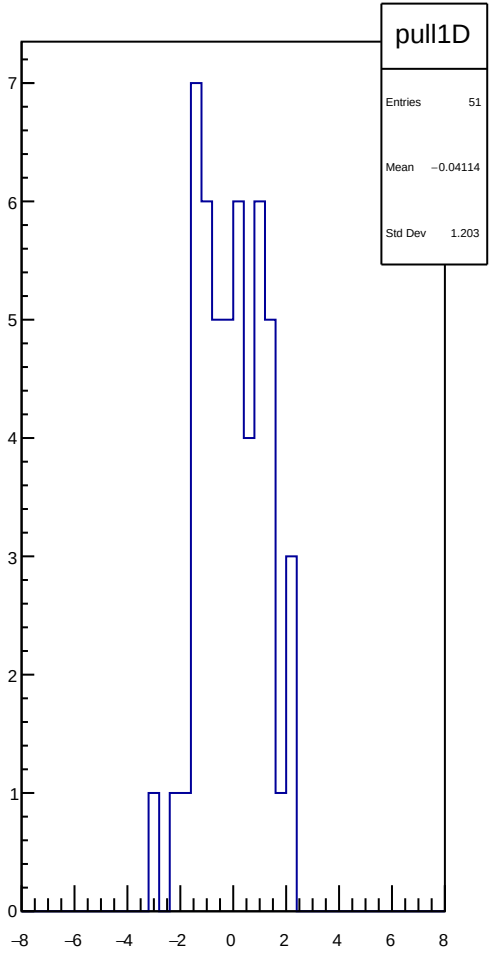

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 187.7 / 50
p0 −6.784 ± 0.2666
pull
Entries 51
Mean −14.76
Std Dev 35.73

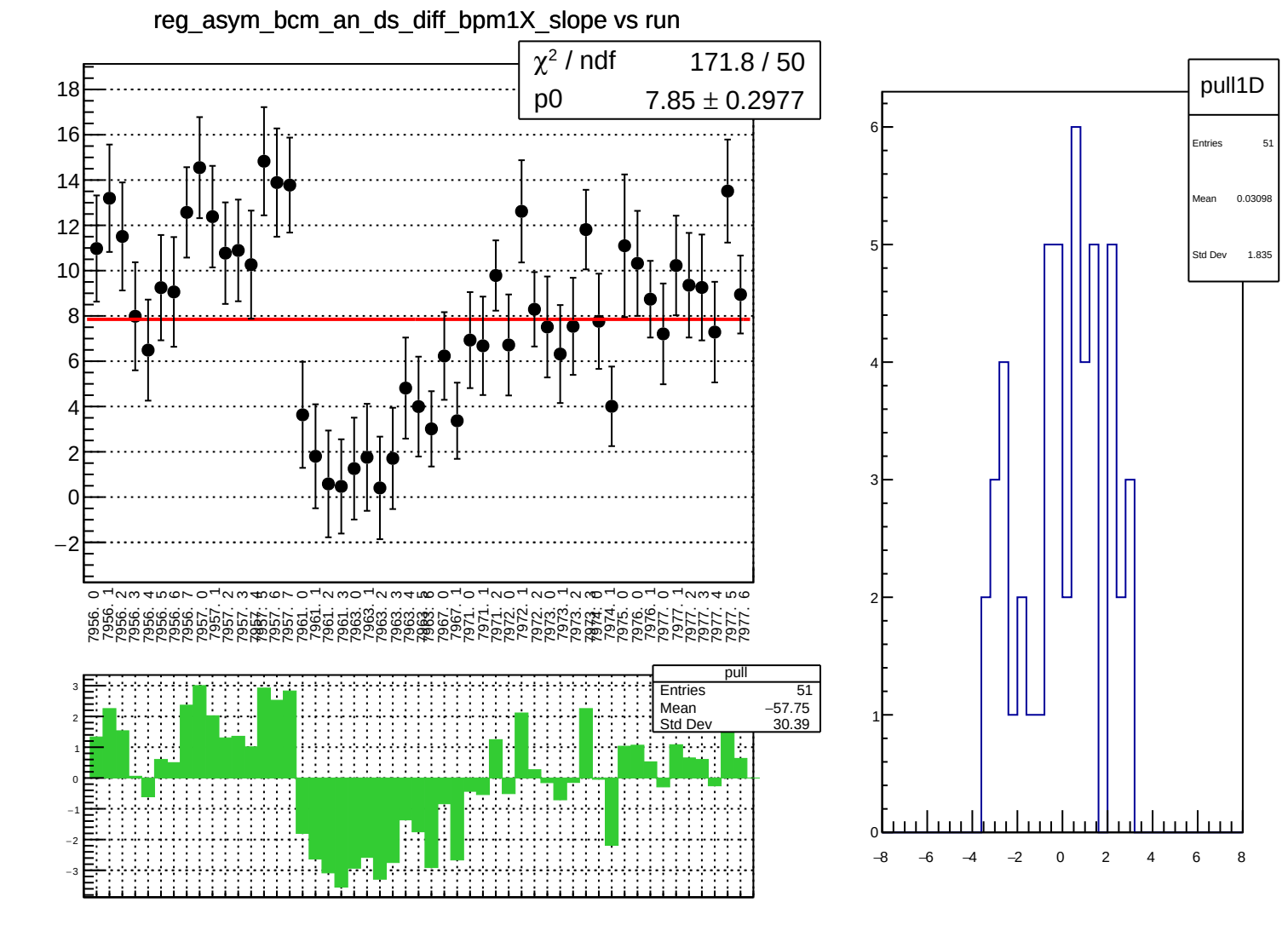

pull1D
Entries 51
Mean −0.06986
Std Dev 1.917

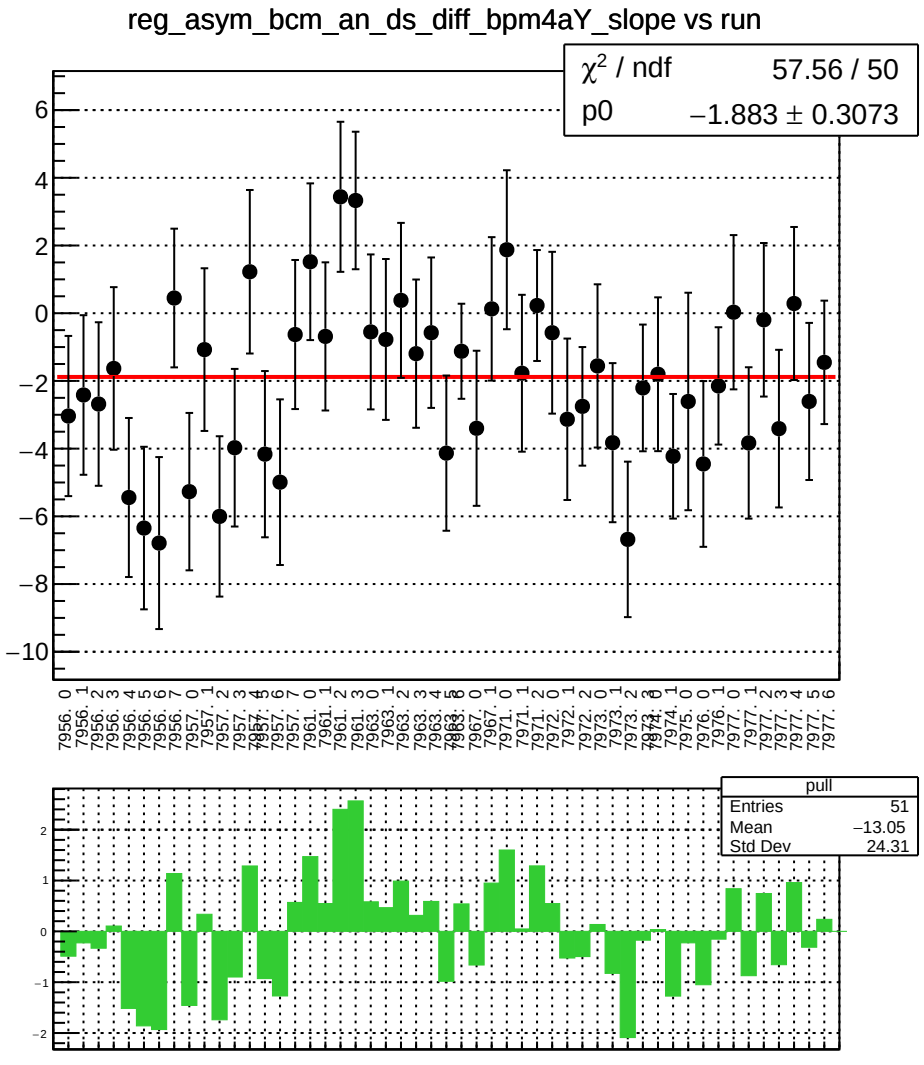

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 57.21 / 50
p0 1.082 ± 0.3533
pull
Entries 51
Mean 75.14
Std Dev 12.66

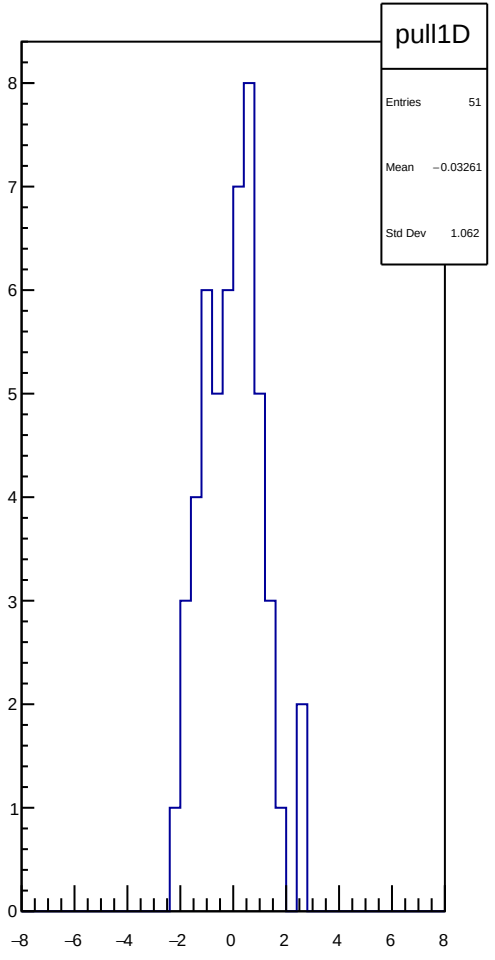

pull1D
Entries 51
Mean 0.02695
Std Dev 1.059

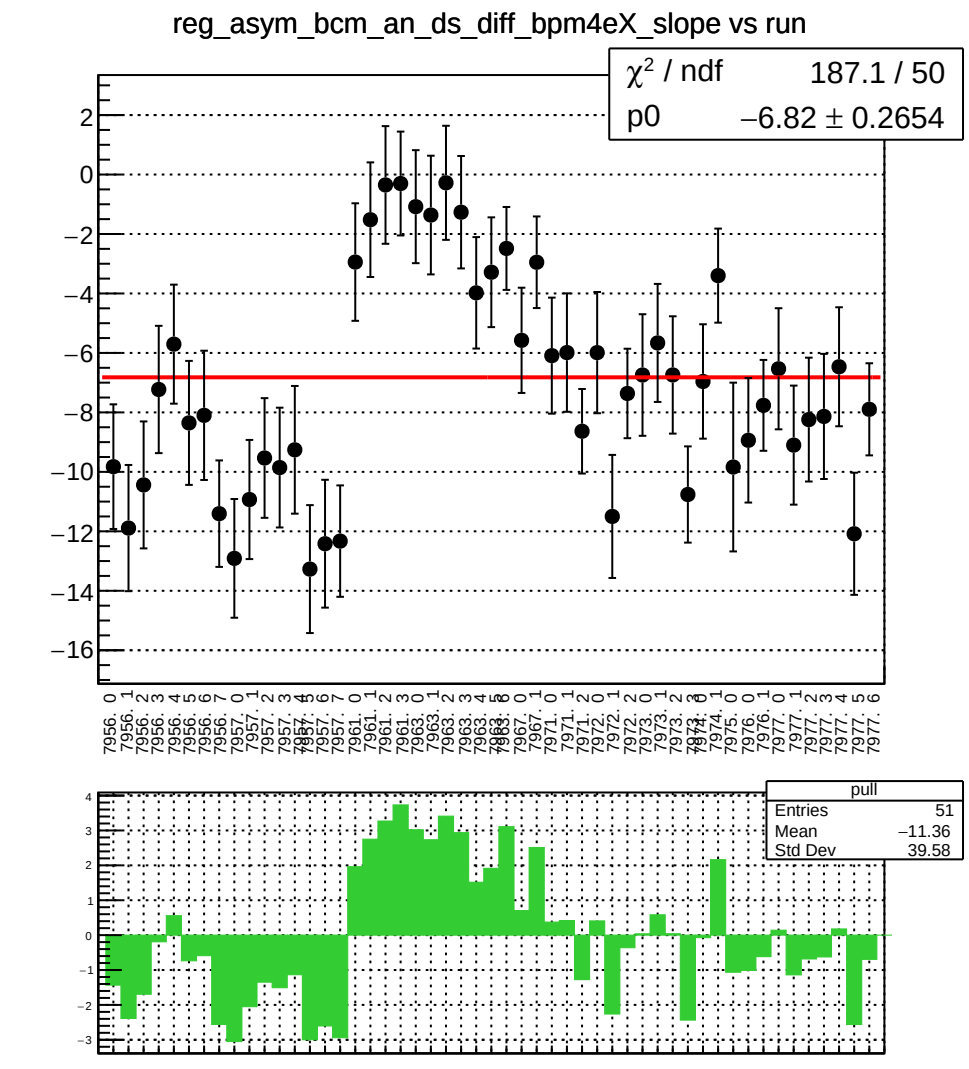

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 73.87 / 50
p0 0.2908 ± 0.01014
pull
Entries 51
Mean −70.18
Std Dev 102.6

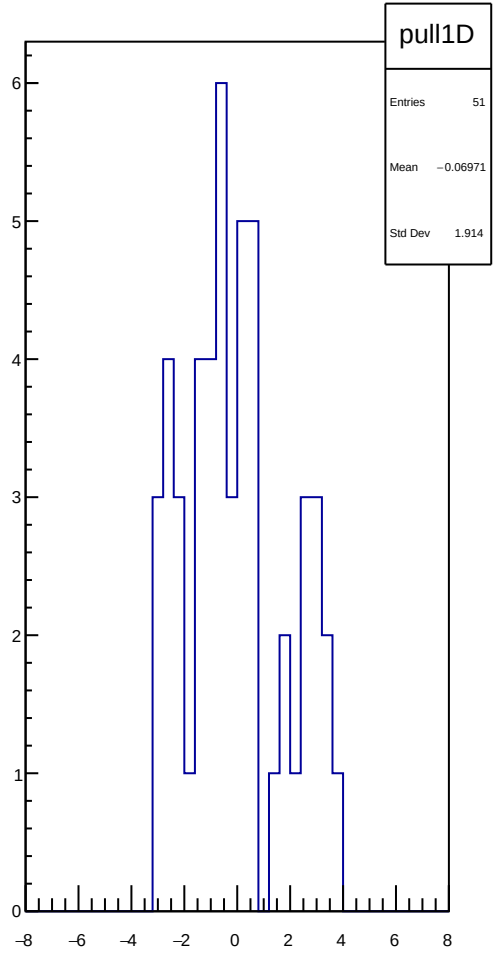

pull1D
Entries 51
Mean −0.04114
Std Dev 1.203

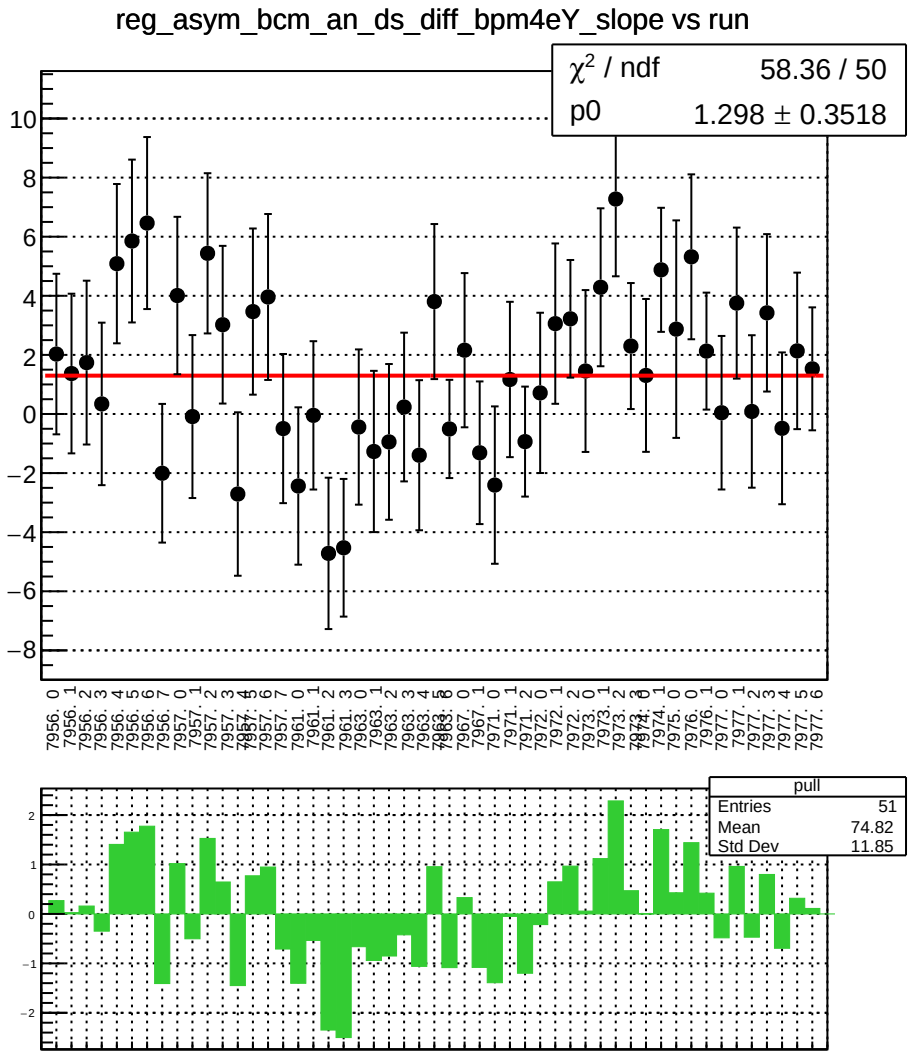

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 171.8 / 50
p0 7.85 ± 0.2977
pull
Entries 51
Mean −57.75
Std Dev 30.39
pull1D
Entries 51
Mean 0.03098
Std Dev 1.835

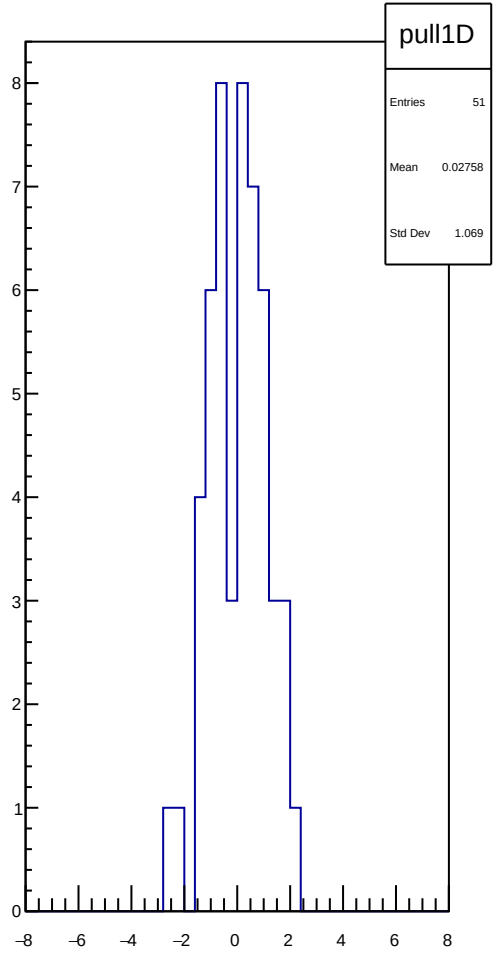

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 57.56 / 50
p0 −1.883 ± 0.3073
pull
Entries 51
Mean −13.05
Std Dev 24.31

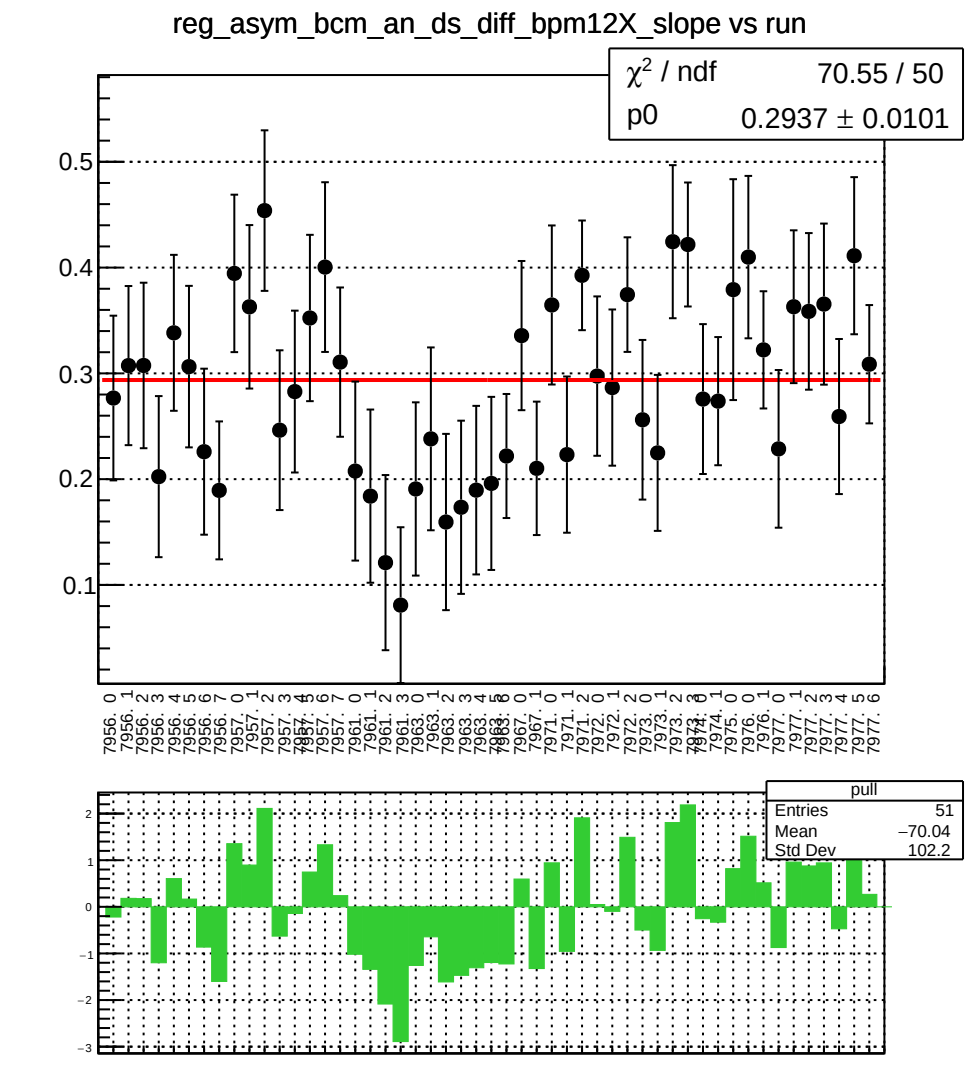

pull1D
Entries 51
Mean −0.03261
Std Dev 1.062

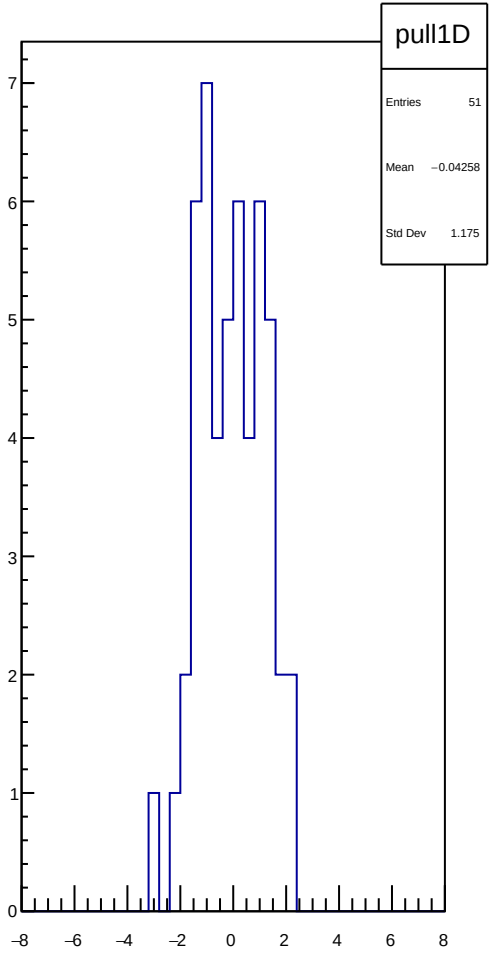

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 187.1 / 50
p0 −6.82 ± 0.2654
pull
Entries 51
Mean −11.36
Std Dev 39.58

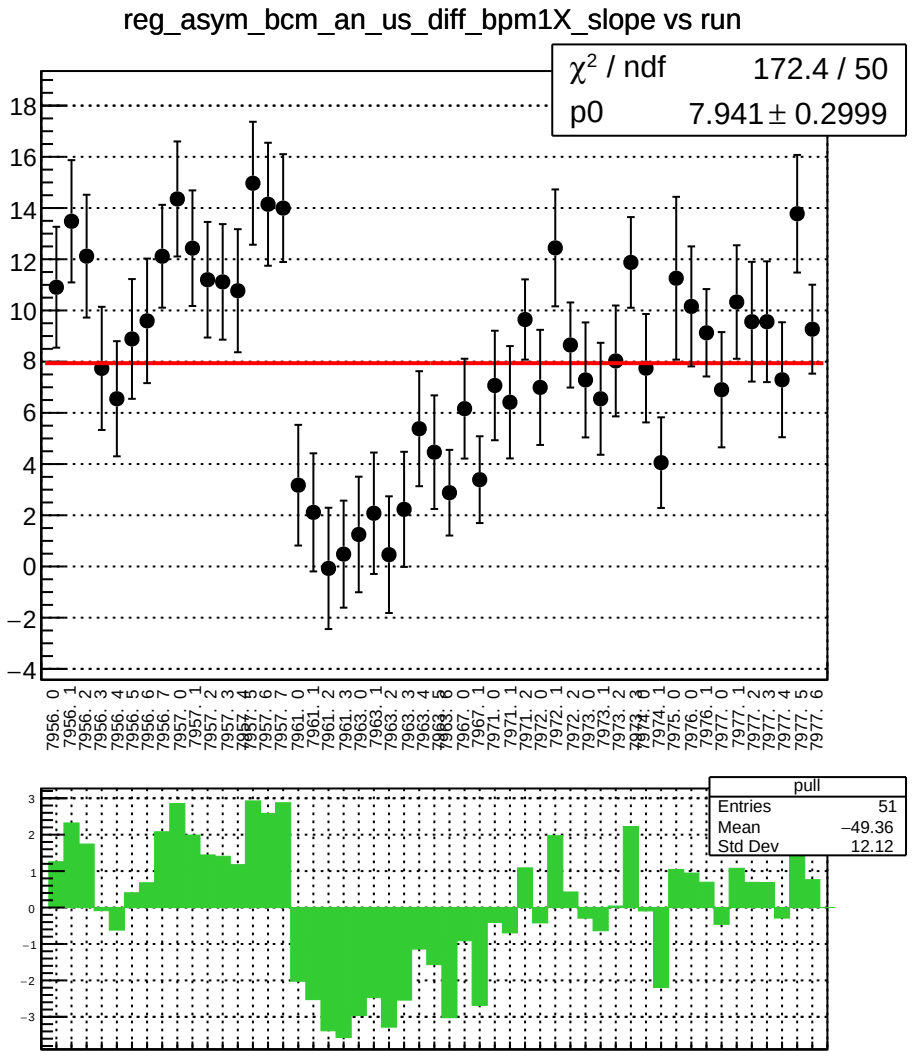

pull1D
Entries 51
Mean −0.06971
Std Dev 1.914

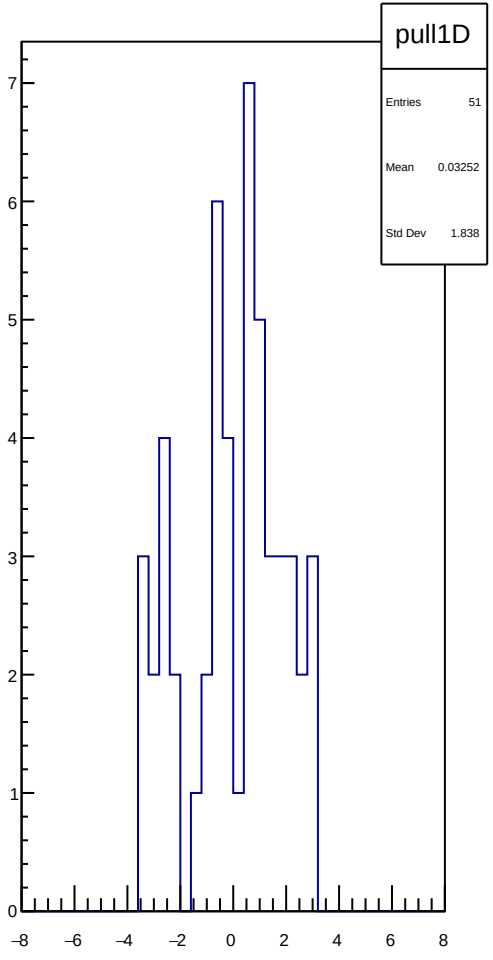

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 58.36 / 50
p0 1.298 ± 0.3518
pull
Entries 51
Mean 74.82
Std Dev 11.85

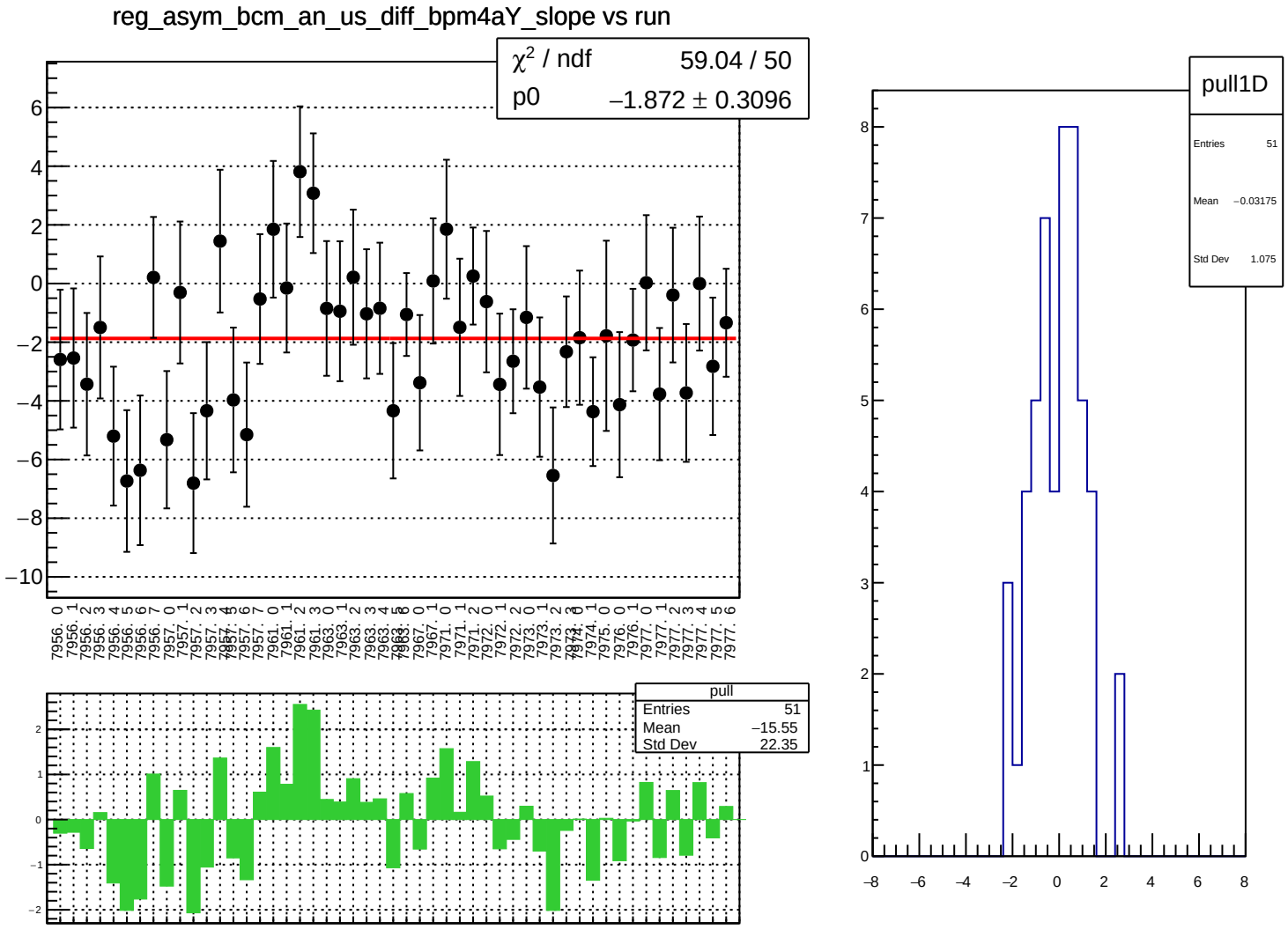

pull1D
Entries 51
Mean 0.02758
Std Dev 1.069

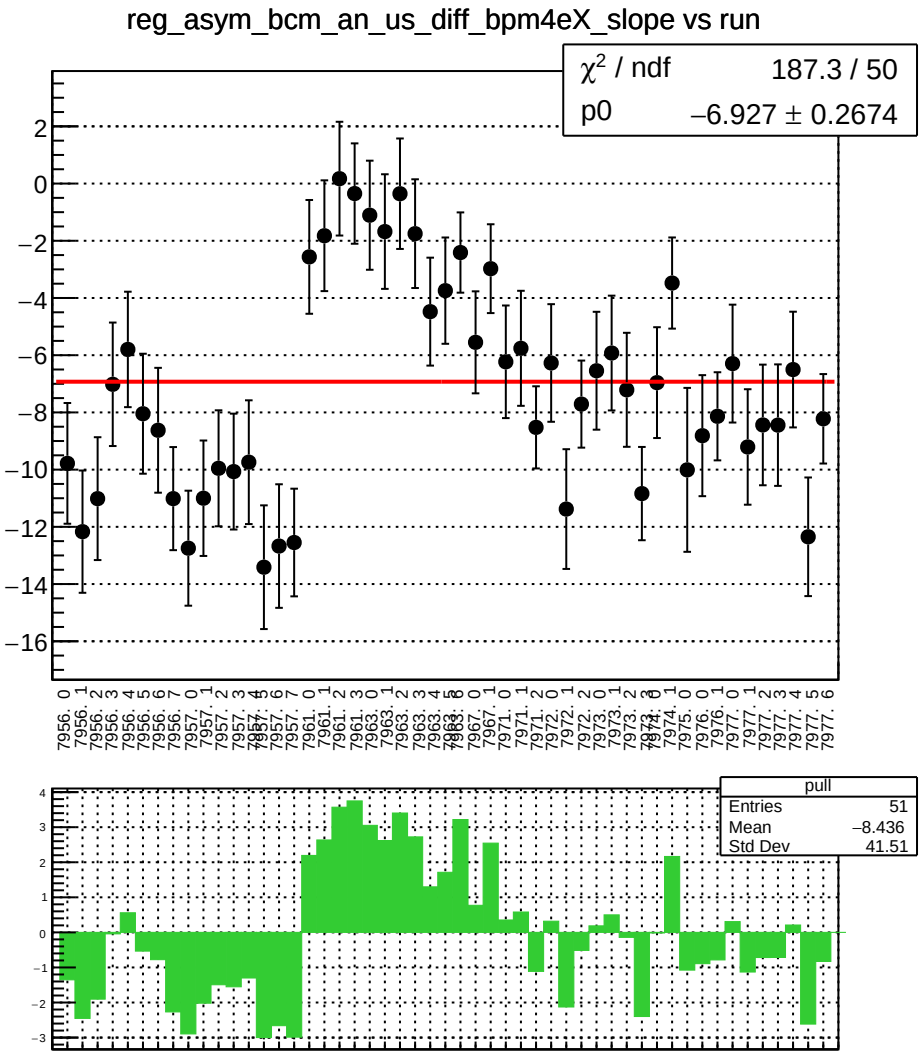

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 70.55 / 50
p0 0.2937 ± 0.0101
pull
Entries 51
Mean −70.04
Std Dev 102.2

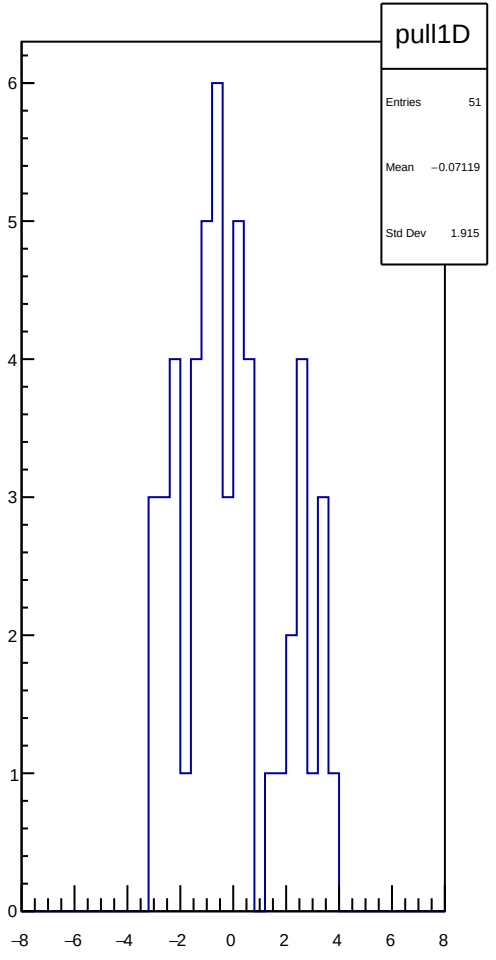

pull1D
Entries 51
Mean −0.04258
Std Dev 1.175

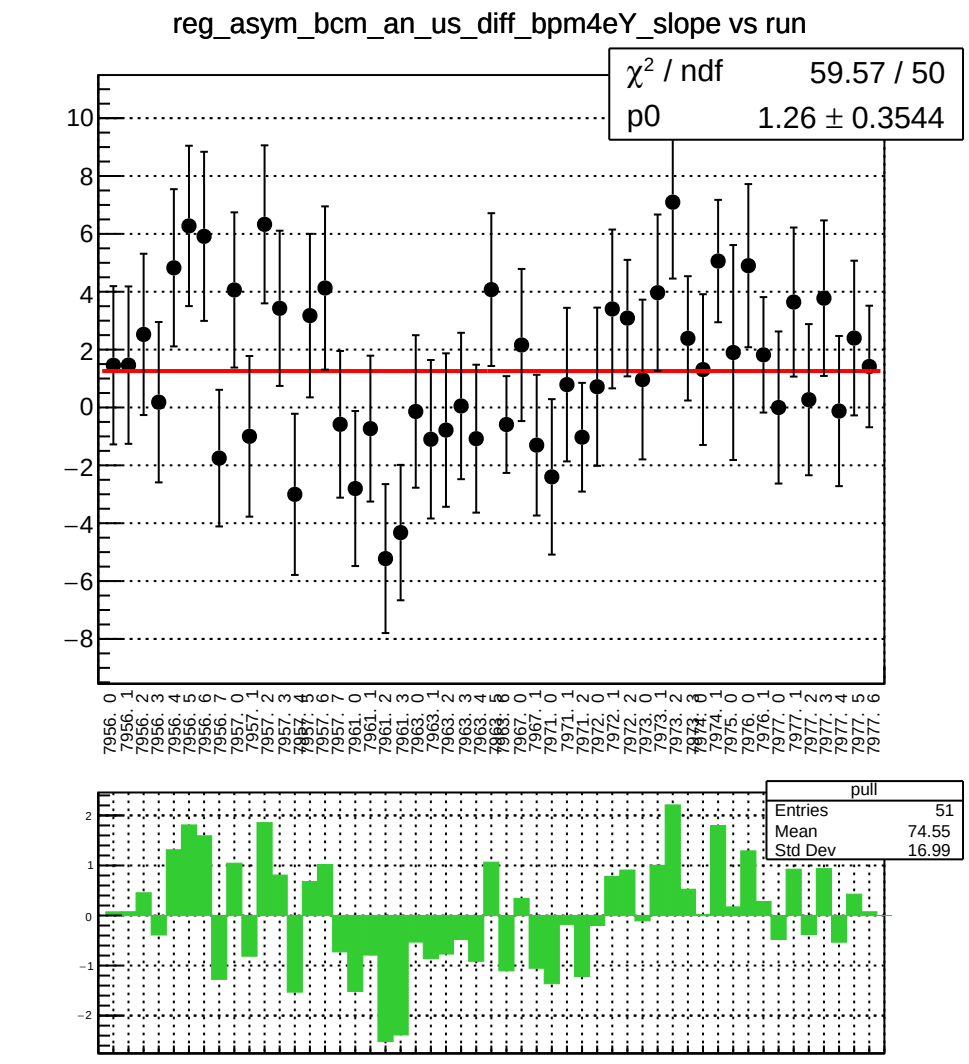

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 172.4 / 50
p0 7.941 ± 0.2999
pull
Entries 51
Mean −49.36
Std Dev 12.12

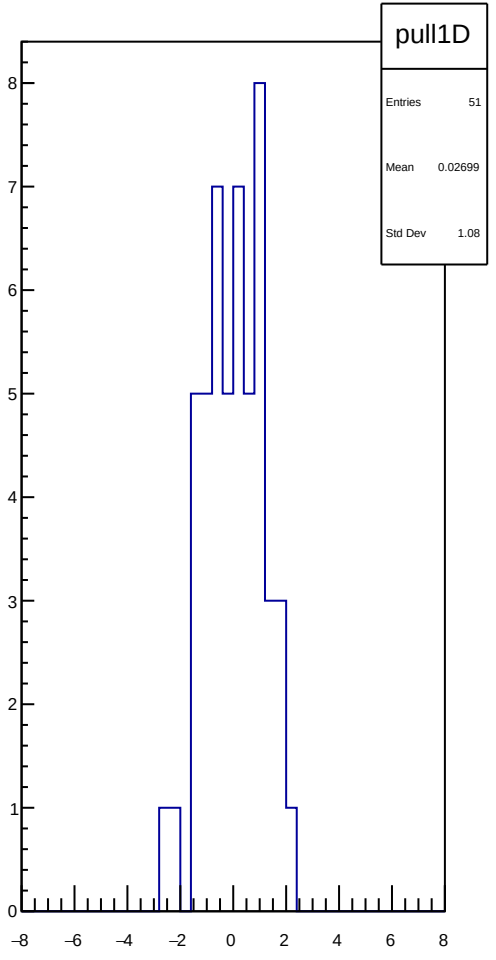

pull1D
Entries 51
Mean 0.03252
Std Dev 1.838

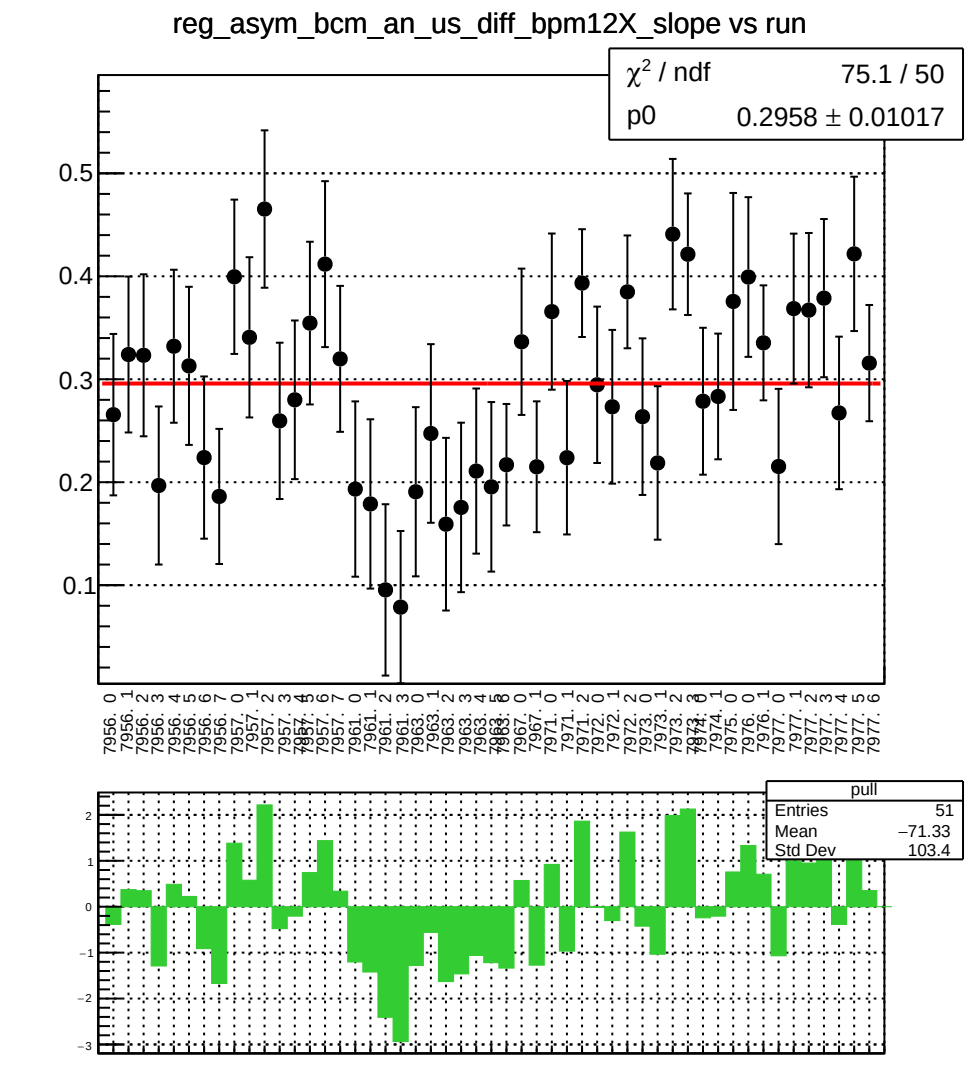

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 59.04 / 50
p0 −1.872 ± 0.3096
pull
Entries 51
Mean −15.55
Std Dev 22.35
pull1D
Entries 51
Mean −0.03175
Std Dev 1.075

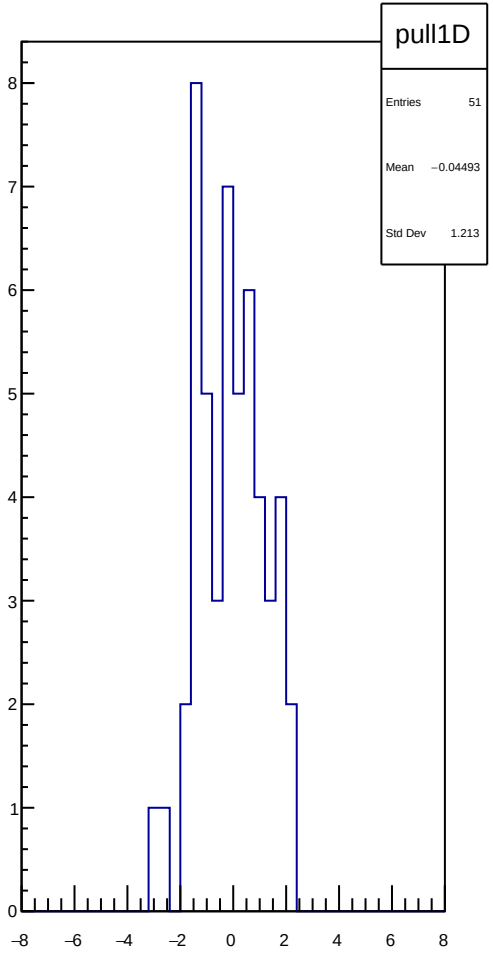

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 187.3 / 50
p0 −6.927 ± 0.2674
pull
Entries 51
Mean −8.436
Std Dev 41.51

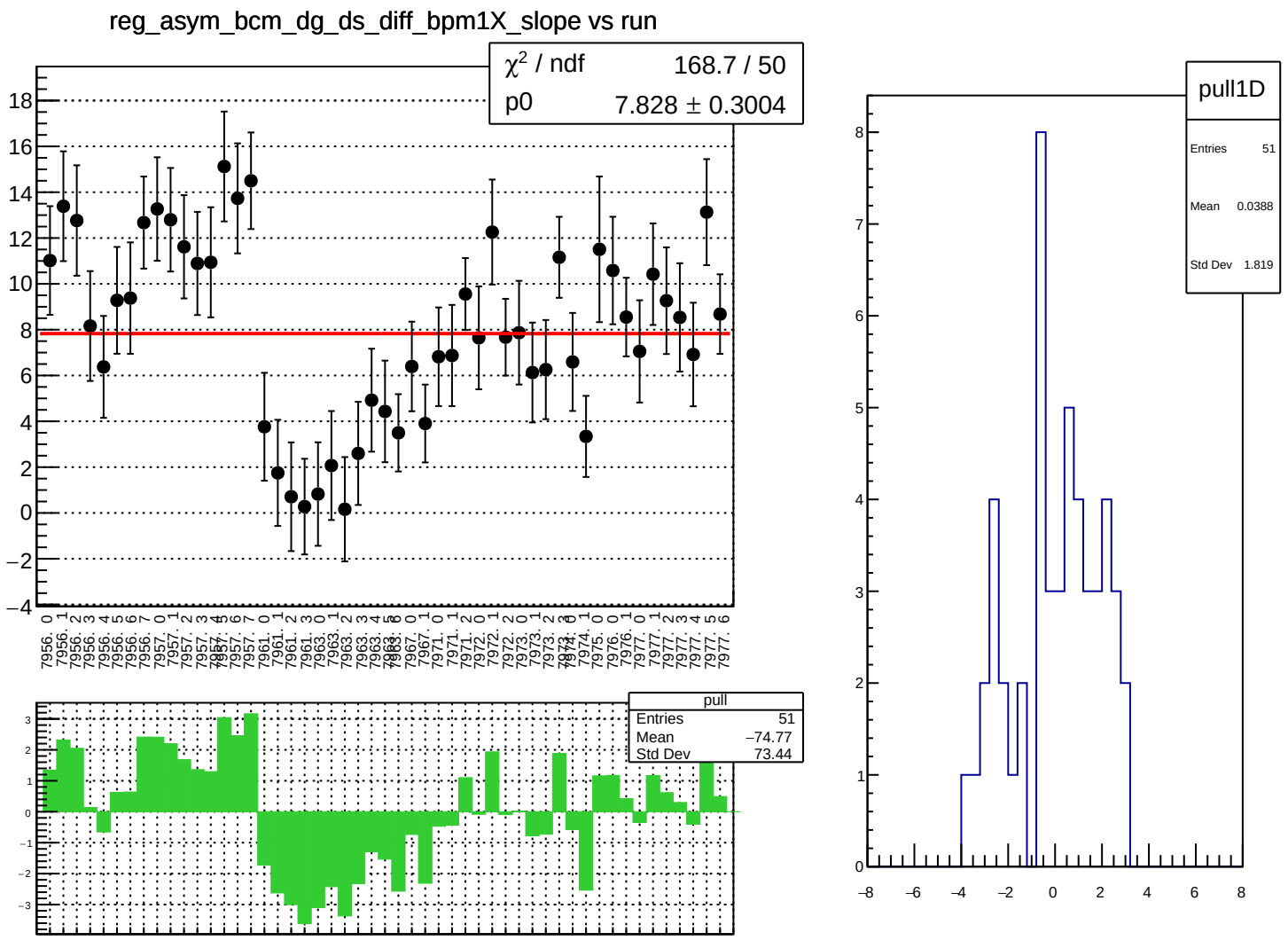

pull1D
Entries 51
Mean −0.07119
Std Dev 1.915

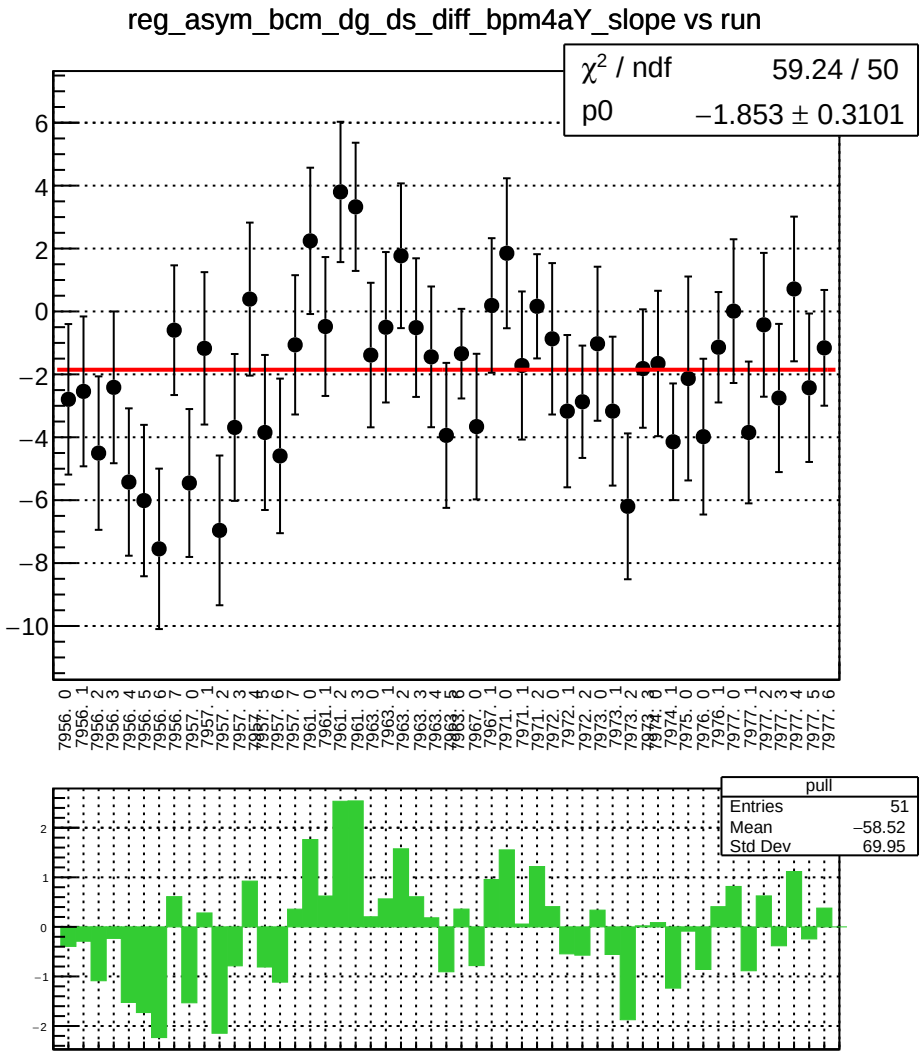

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 59.57 / 50
p0 1.26 ± 0.3544
pull
Entries 51
Mean 74.55
Std Dev 16.99

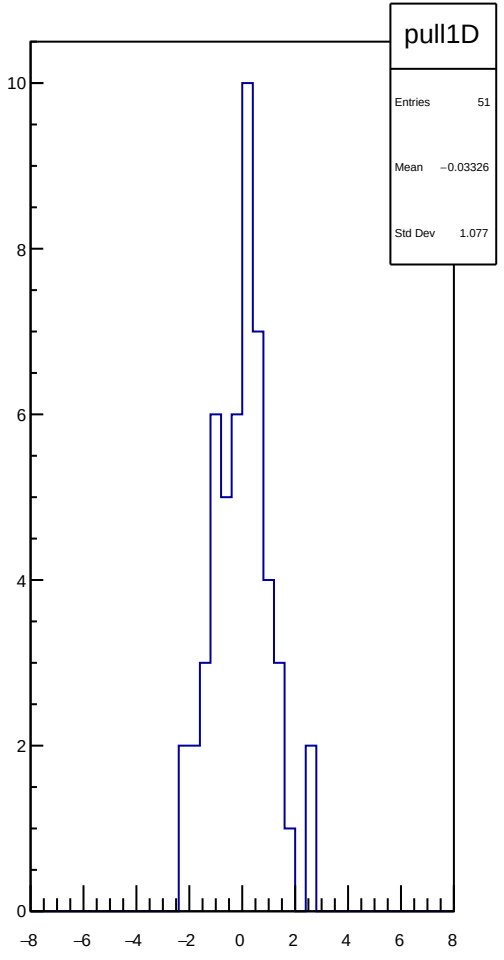

pull1D
Entries 51
Mean 0.02699
Std Dev 1.08

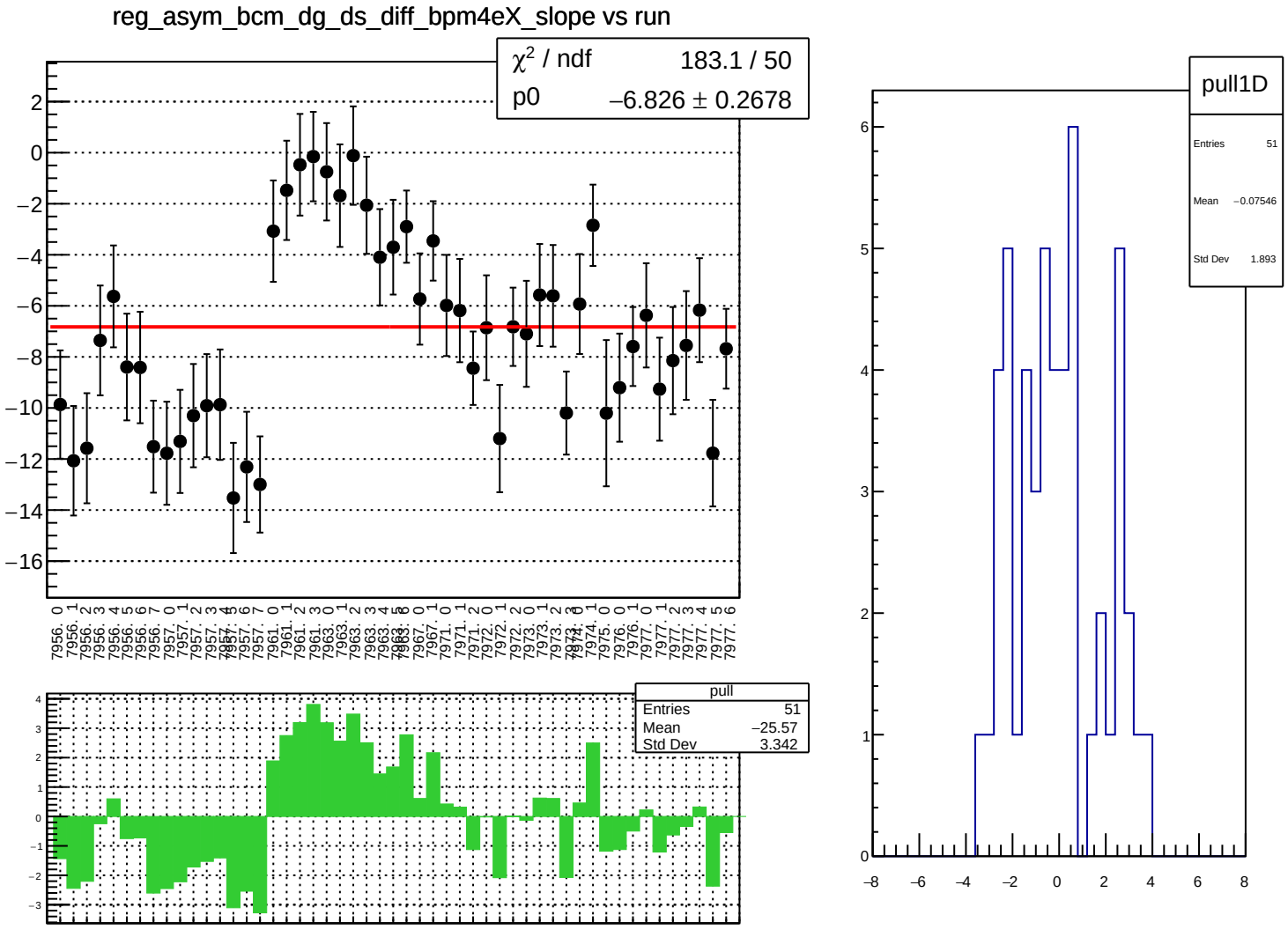

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 75.1 / 50
p0 0.2958 ± 0.01017
pull
Entries 51
Mean −71.33
Std Dev 103.4

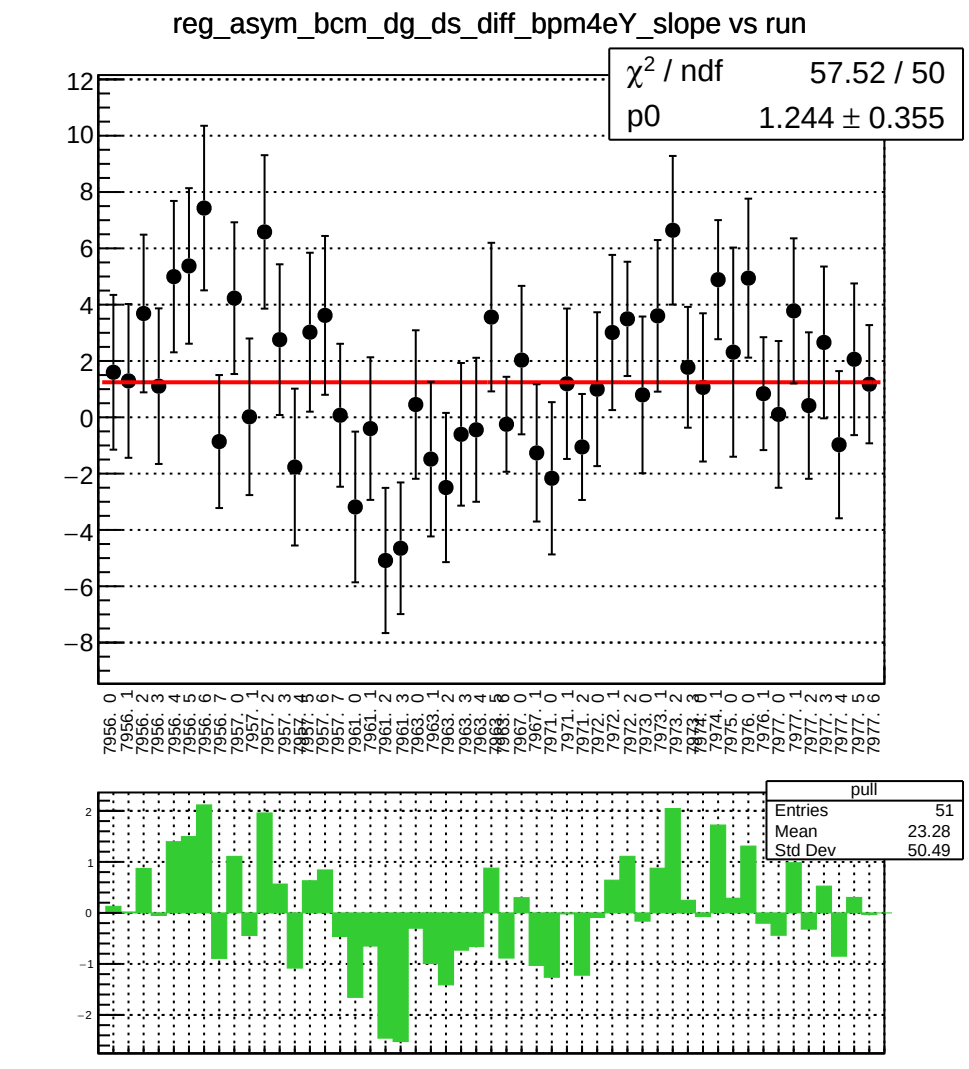

pull1D
Entries 51
Mean −0.04493
Std Dev 1.213

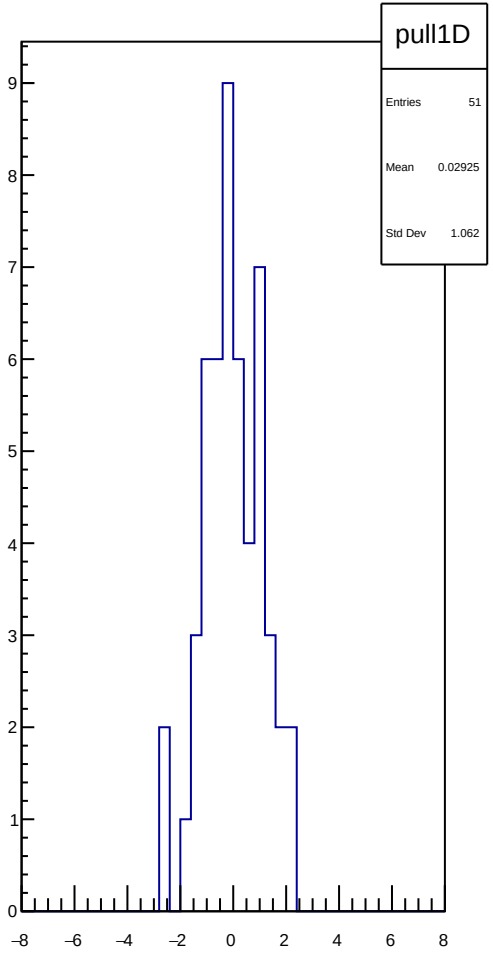

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 168.7 / 50
p0 7.828 ± 0.3004
pull
Entries 51
Mean −74.77
Std Dev 73.44
pull1D
Entries 51
Mean 0.0388
Std Dev 1.819

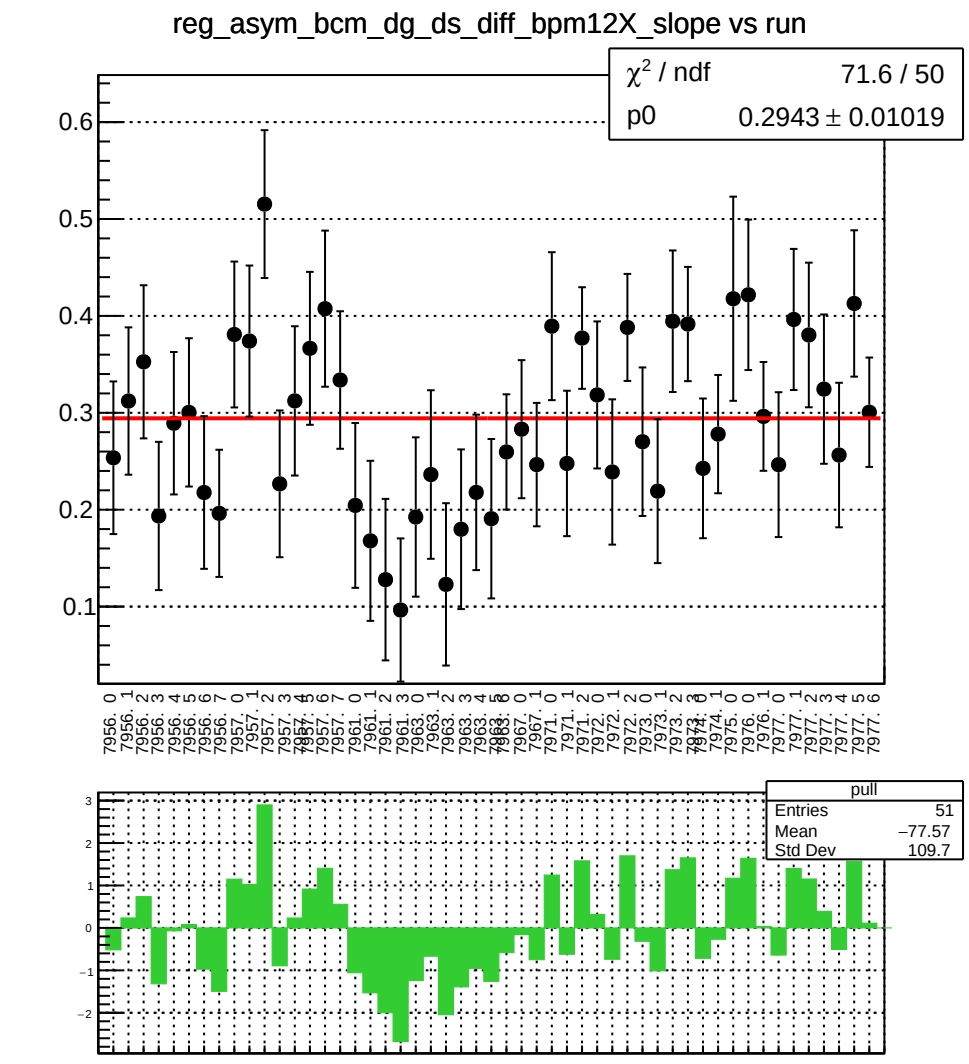

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 59.24 / 50
p0 −1.853 ± 0.3101
pull
Entries 51
Mean −58.52
Std Dev 69.95

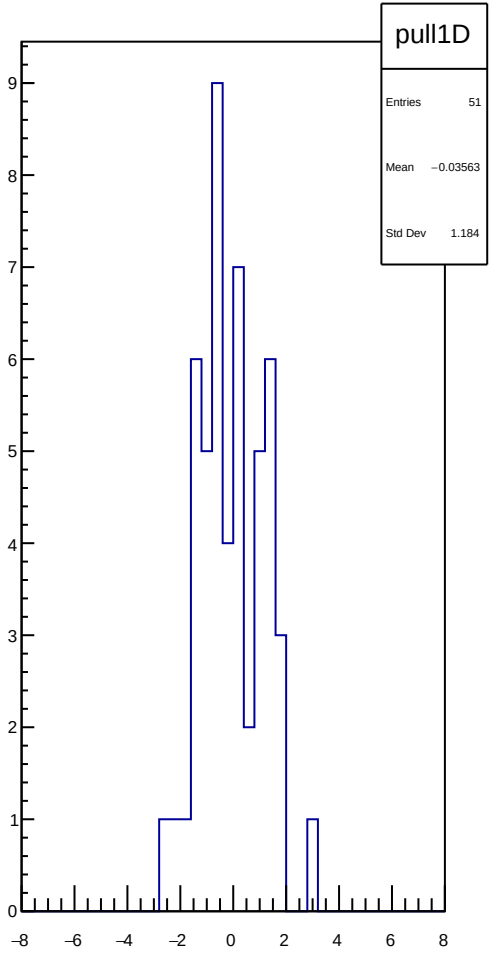

pull1D
Entries 51
Mean −0.03326
Std Dev 1.077

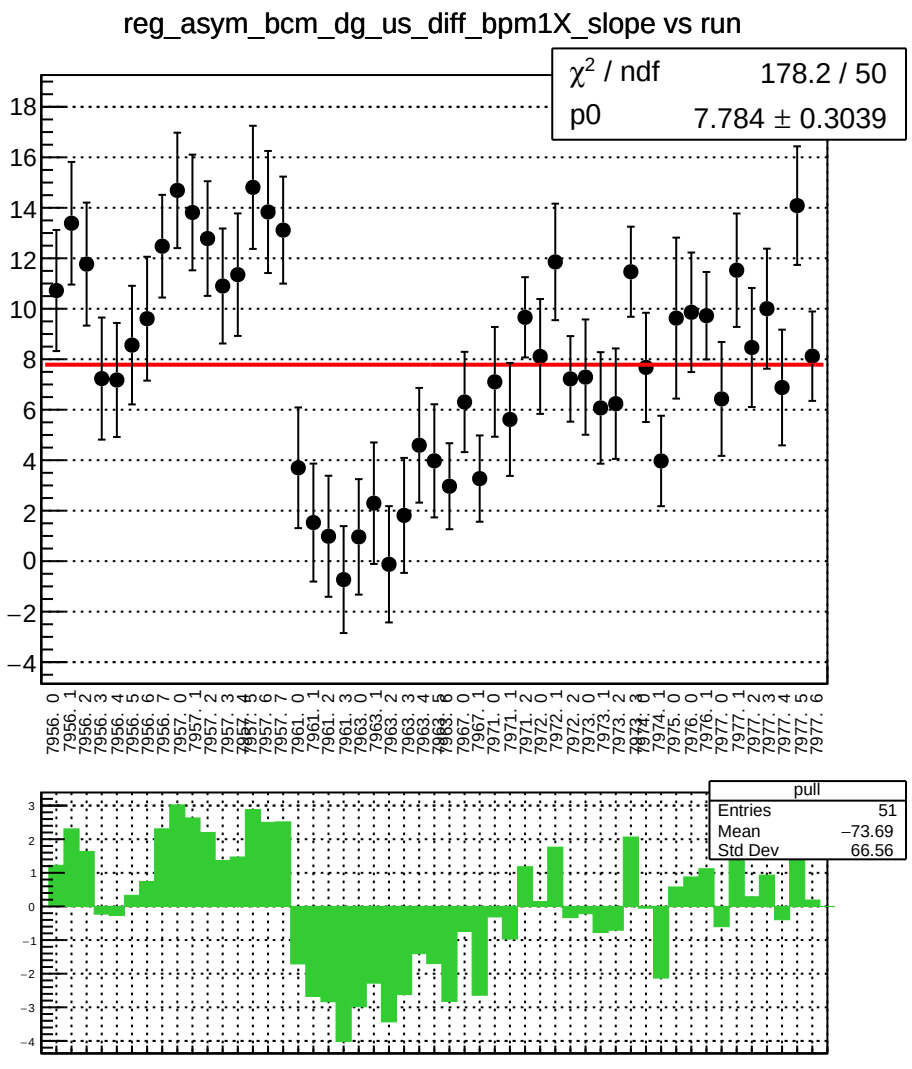

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 183.1 / 50
p0 −6.826 ± 0.2678
pull
Entries 51
Mean −25.57
Std Dev 3.342
pull1D
Entries 51
Mean −0.07546
Std Dev 1.893

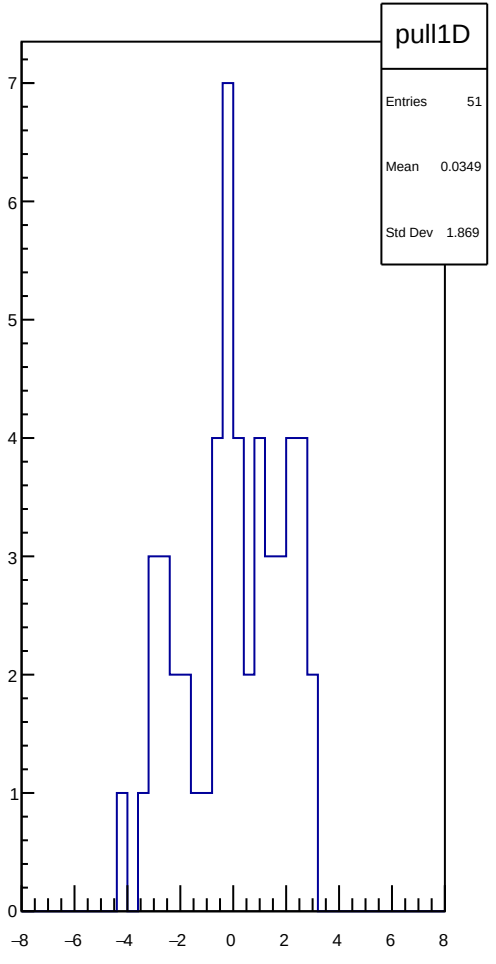

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 57.52 / 50
p0 1.244 ± 0.355
pull
Entries 51
Mean 23.28
Std Dev 50.49

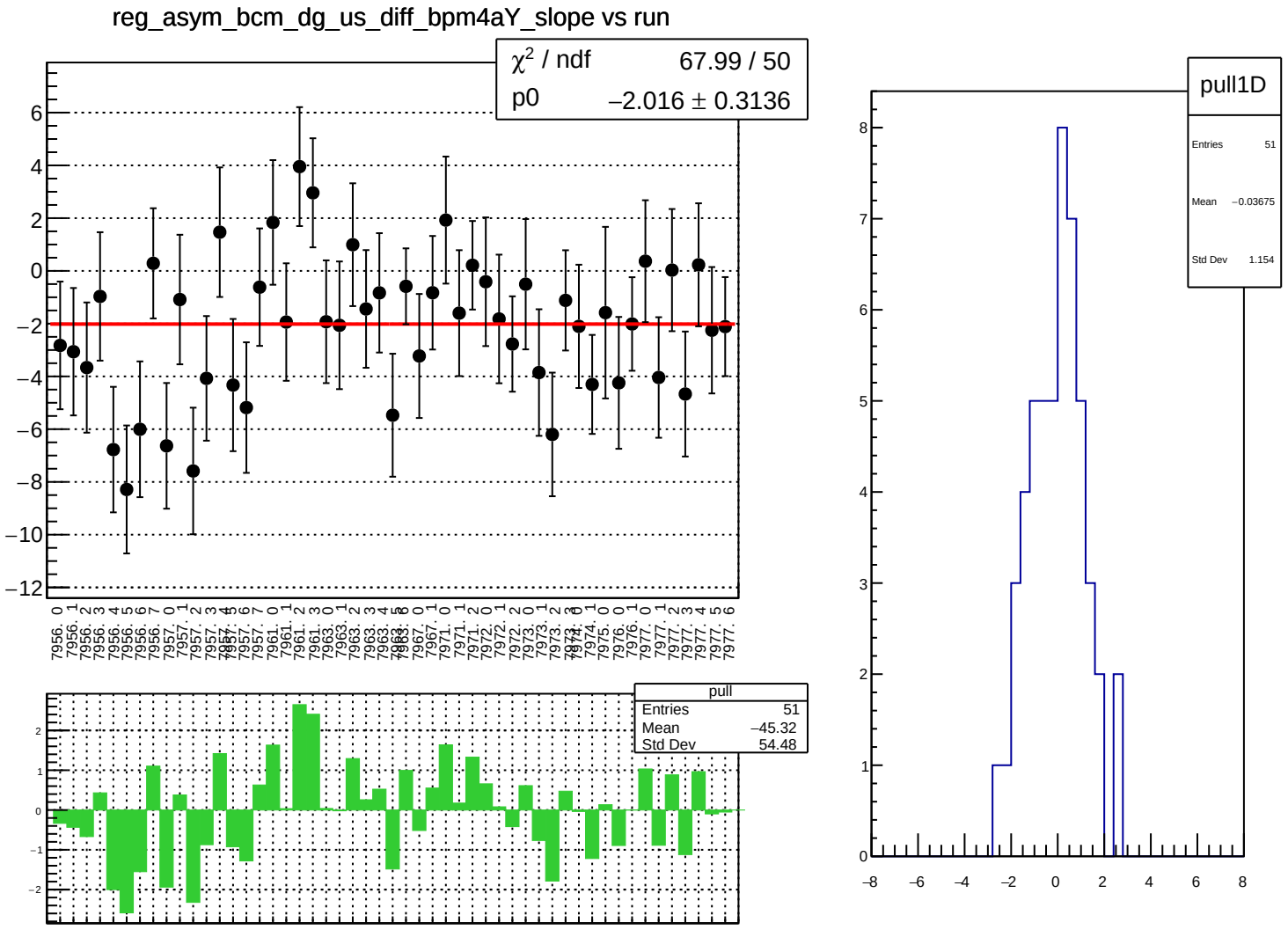

pull1D
Entries 51
Mean 0.02925
Std Dev 1.062

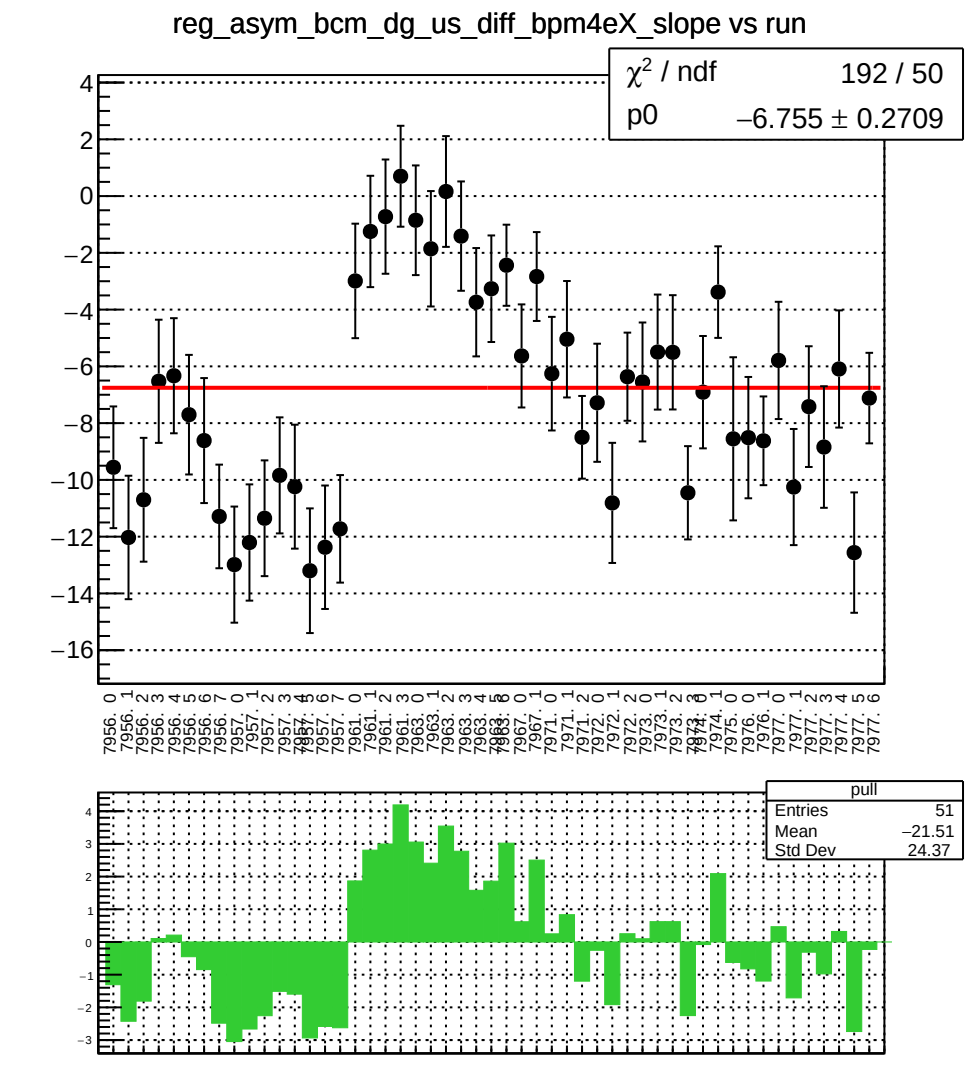

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 71.6 / 50
p0 0.2943 ± 0.01019
pull
Entries 51
Mean −77.57
Std Dev 109.7

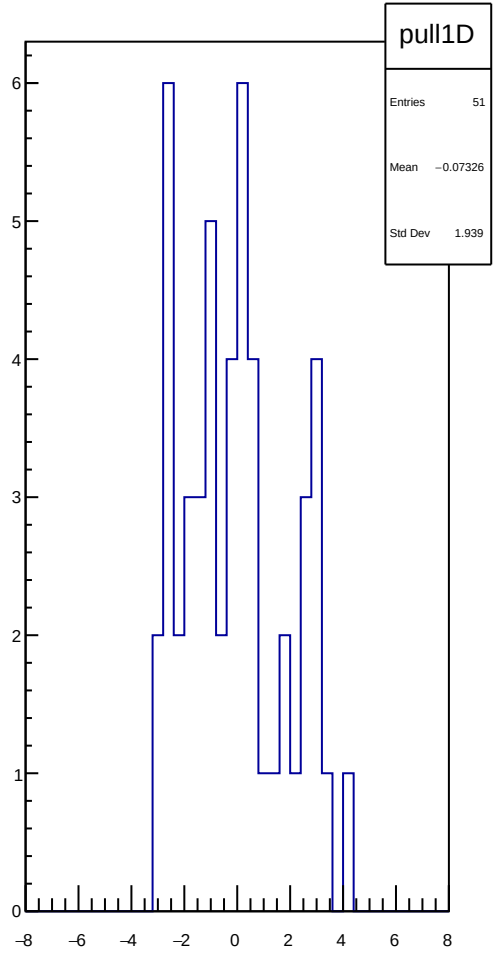

pull1D
Entries 51
Mean −0.03563
Std Dev 1.184


reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 178.2 / 50
p0 7.784 ± 0.3039
pull
Entries 51
Mean −73.69
Std Dev 66.56

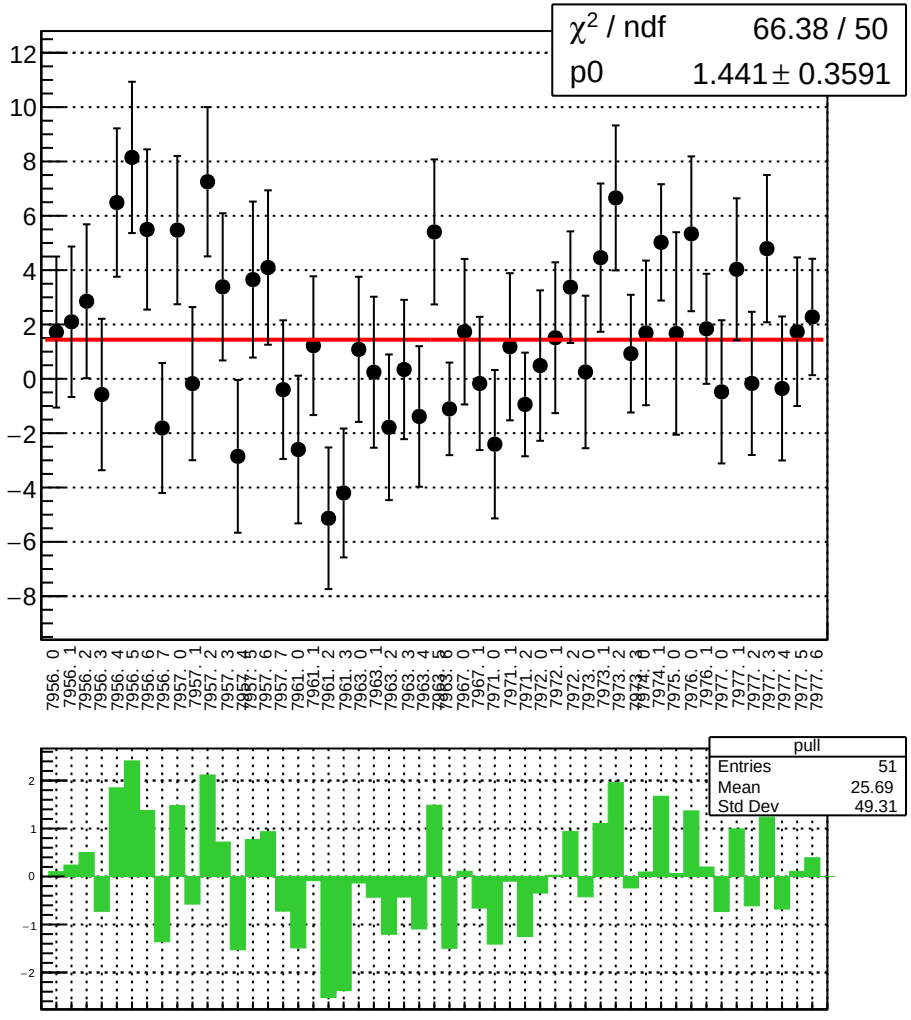

pull1D
Entries 51
Mean 0.0349
Std Dev 1.869

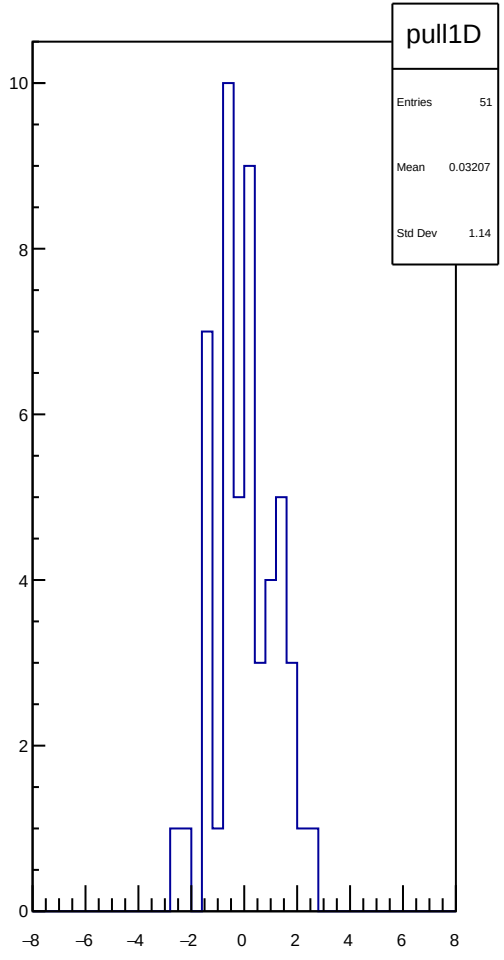

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 67.99 / 50
p0 −2.016 ± 0.3136
pull
Entries 51
Mean −45.32
Std Dev 54.48
pull1D
Entries 51
Mean −0.03675
Std Dev 1.154

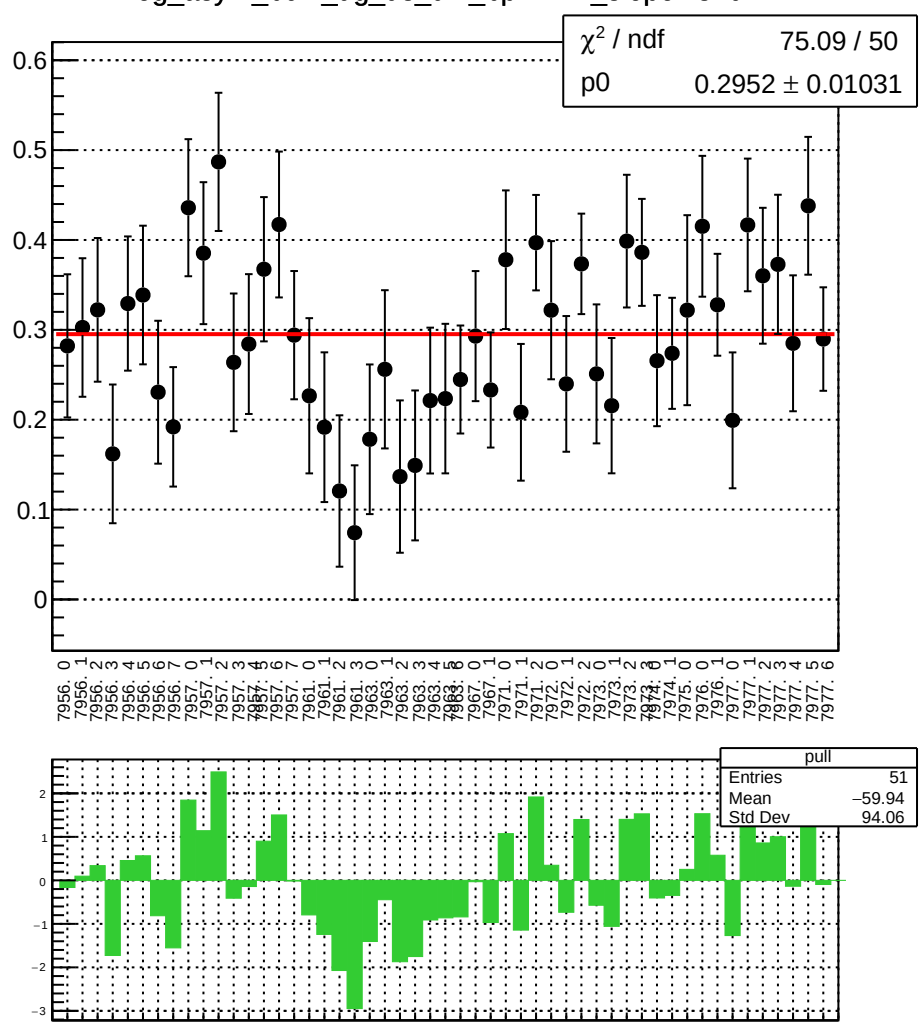

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 192 / 50
p0 −6.755 ± 0.2709
pull
Entries 51
Mean −21.51
Std Dev 24.37

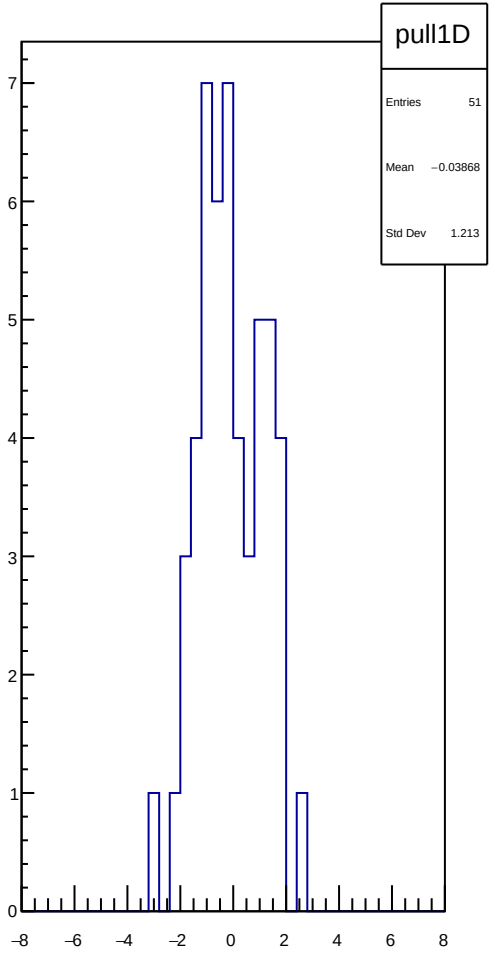

pull1D
Entries 51
Mean −0.07326
Std Dev 1.939

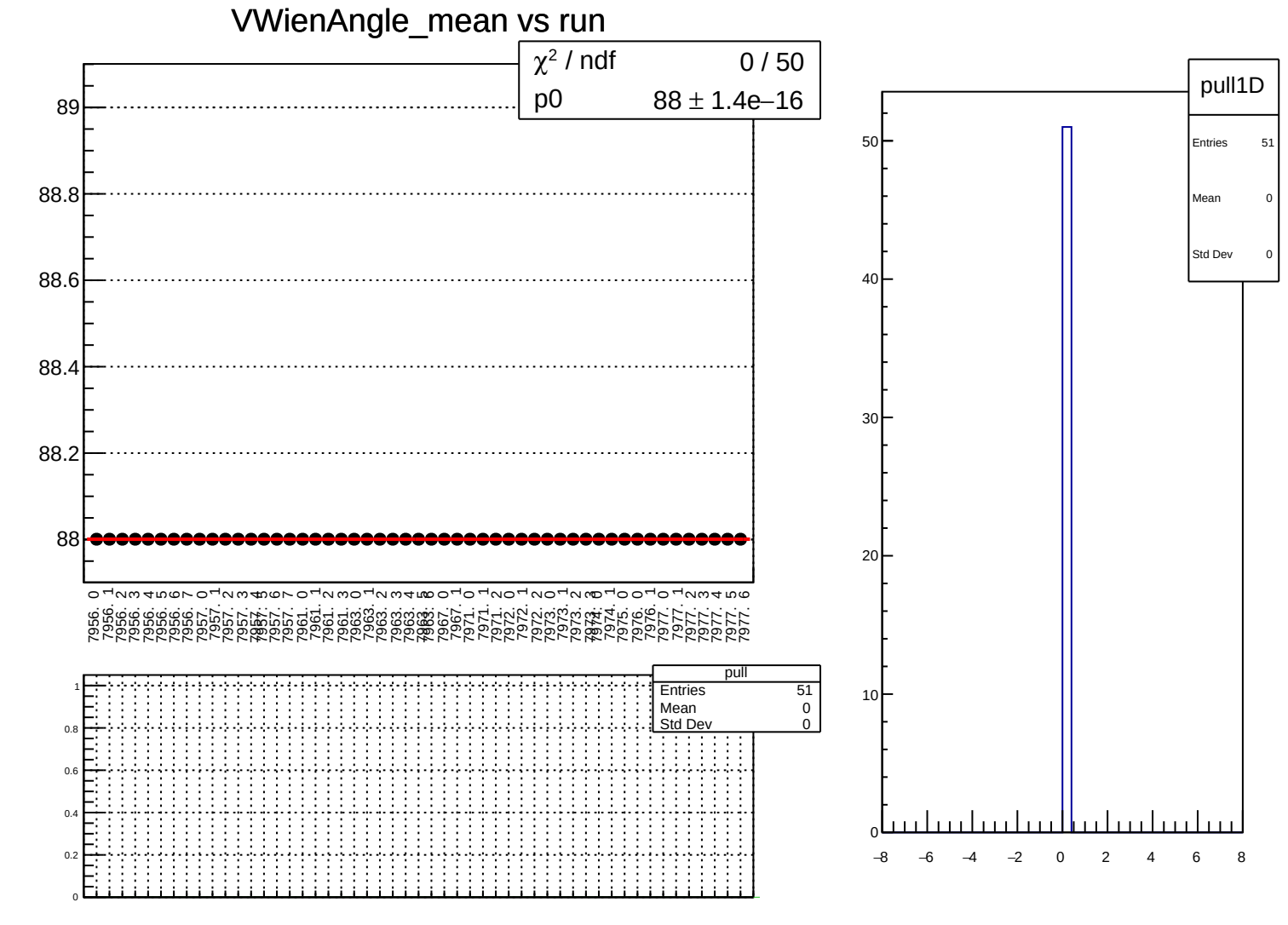
reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run

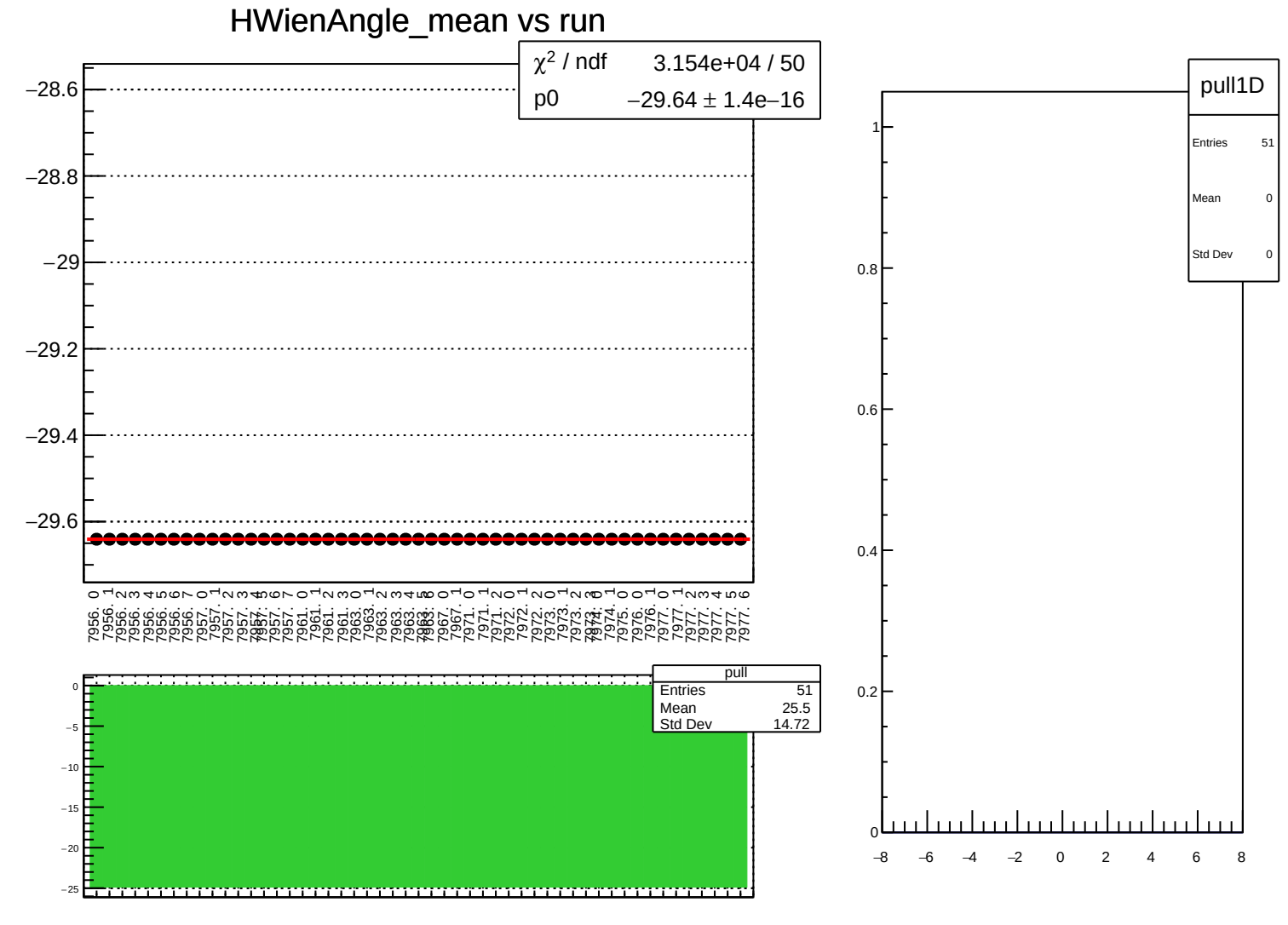


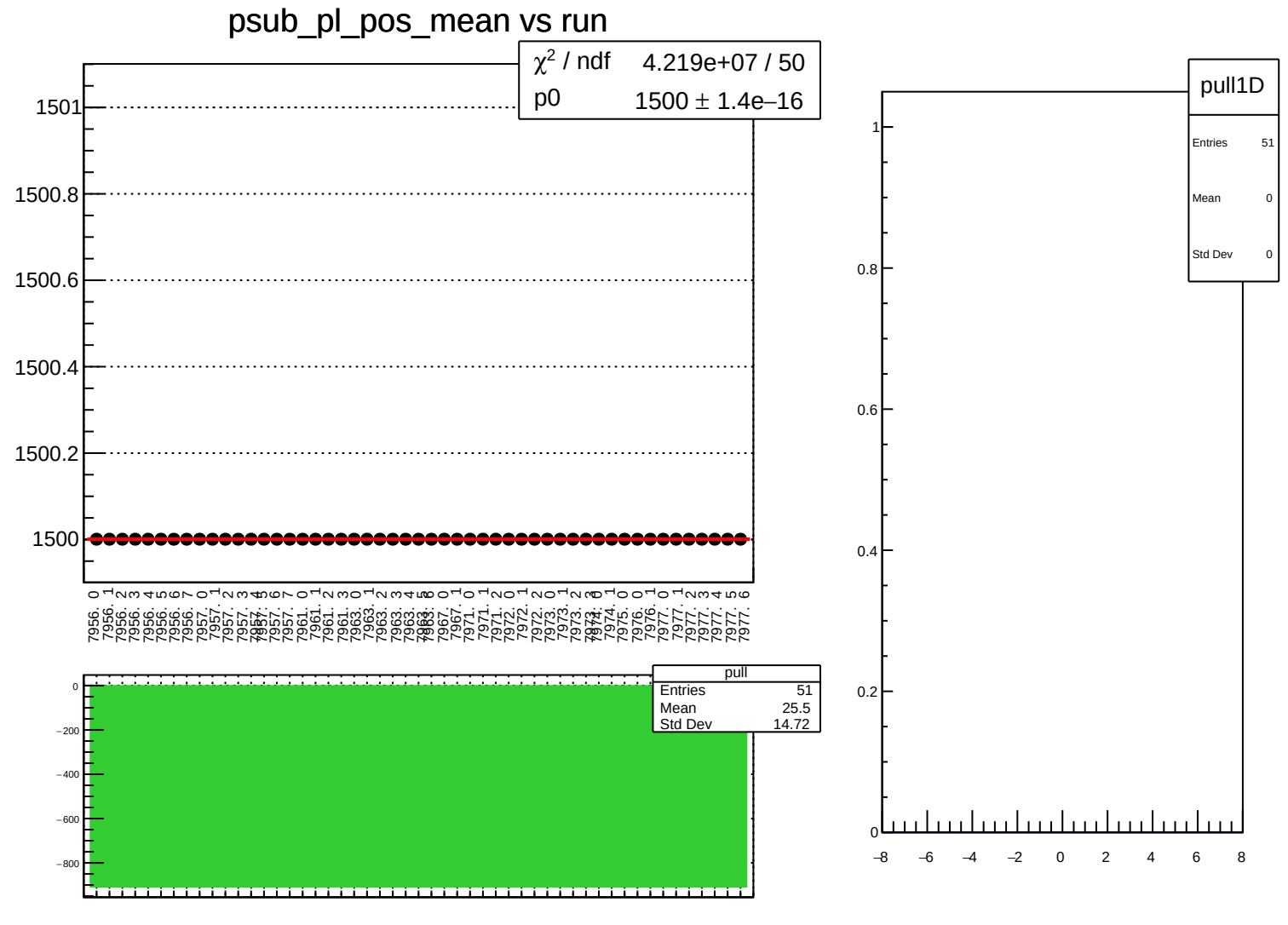


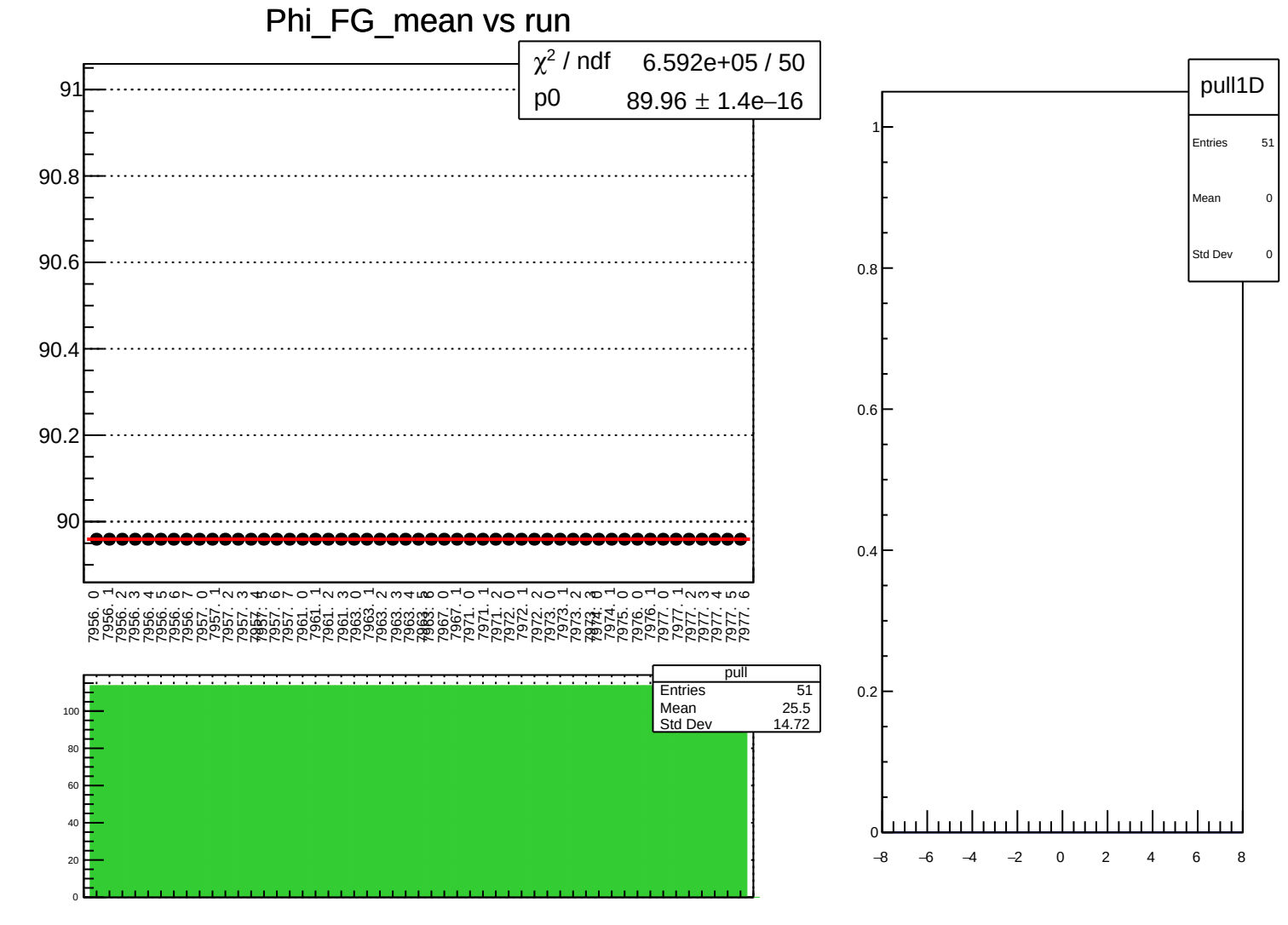

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 75.09 / 50
p0 0.2952 ± 0.01031
pull
Entries 51
Mean −59.94
Std Dev 94.06

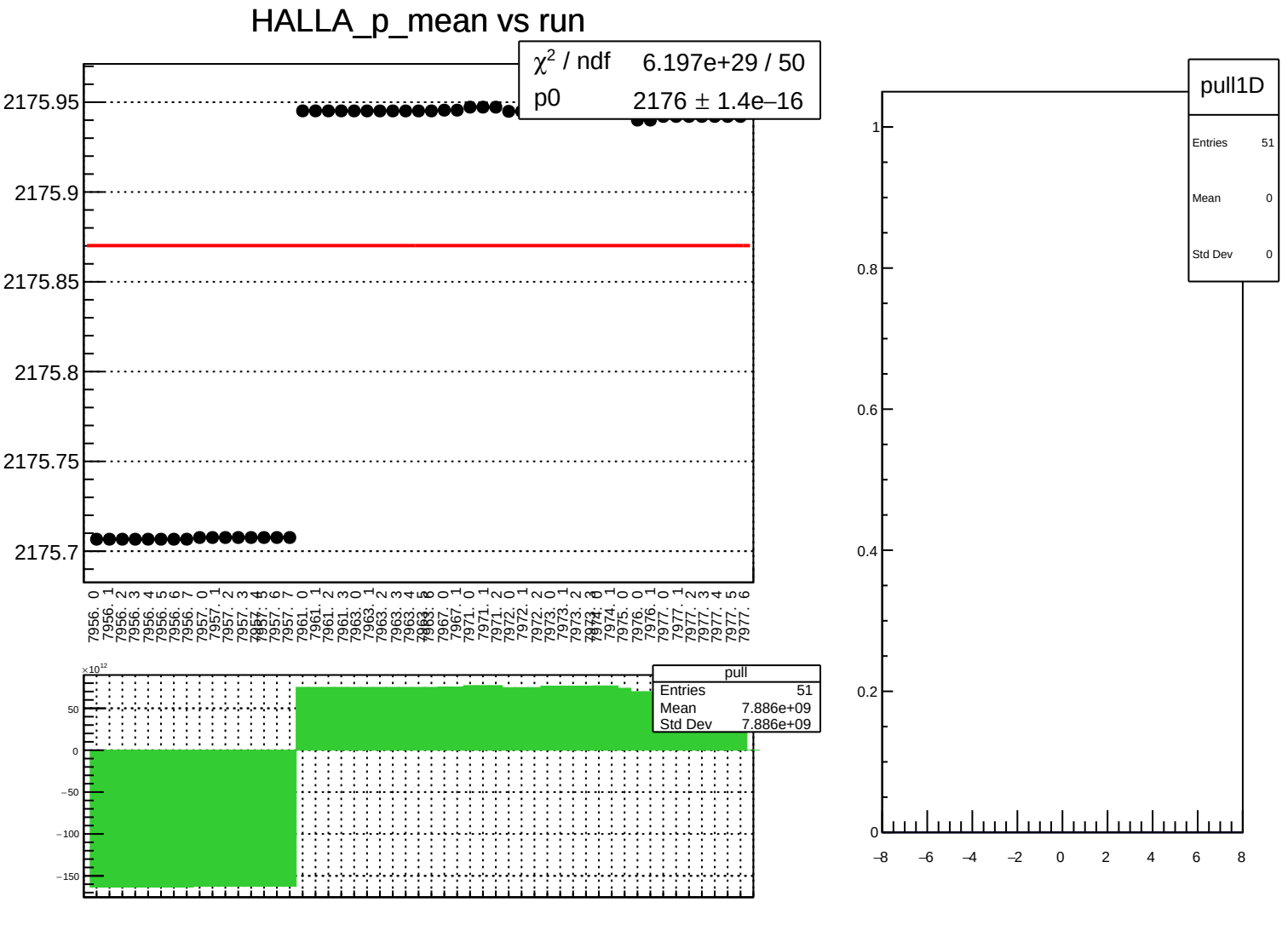

pull1D
Entries 51
Mean −0.03868
Std Dev 1.213

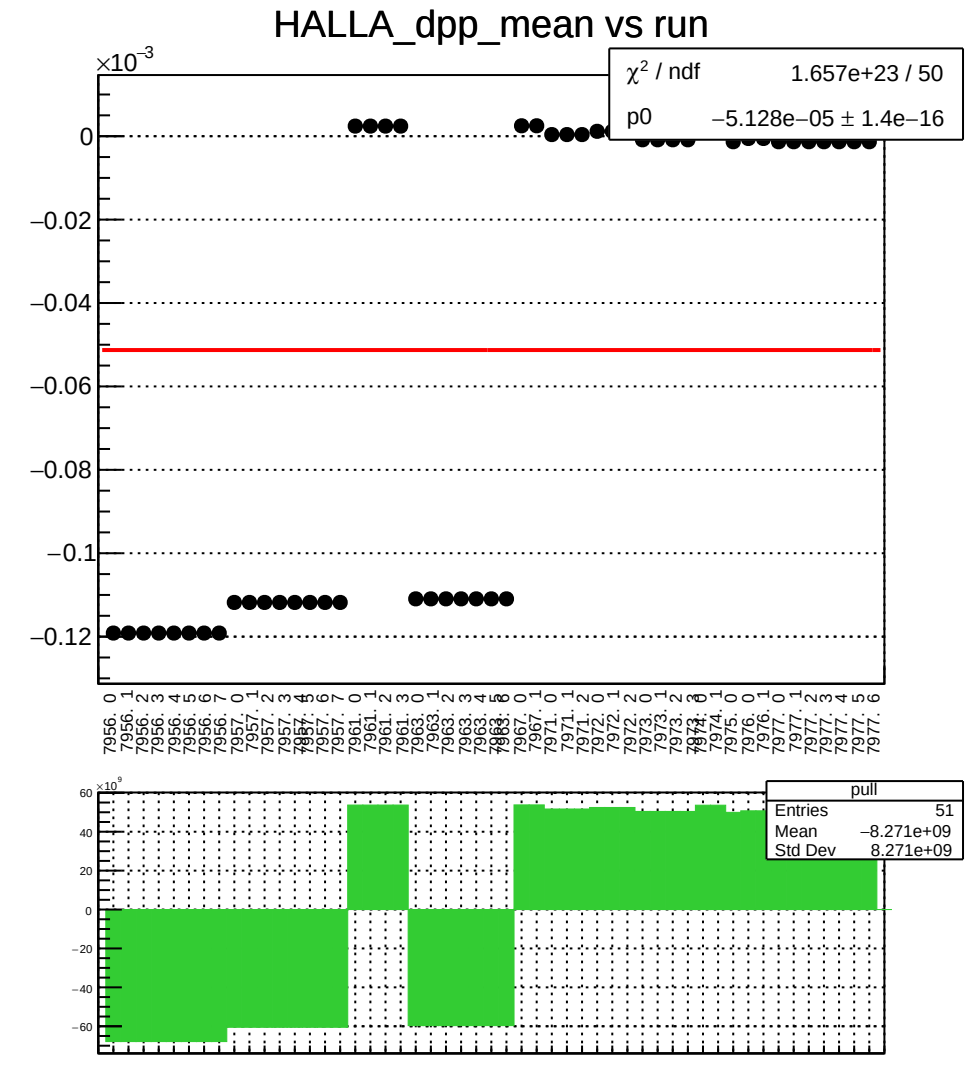

VWienAngle_mean vs run
χ² / ndf 0 / 50
p0 88 ± 1.4e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 51
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

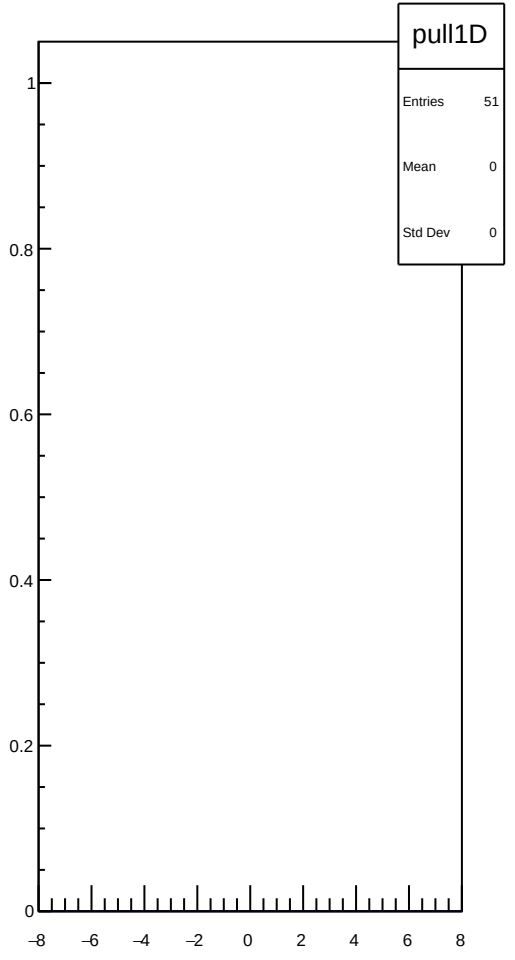

HWienAngle_mean vs run
χ² / ndf 3.154e+04 / 50
p0 −29.64 ± 1.4e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean 0
Std Dev 0

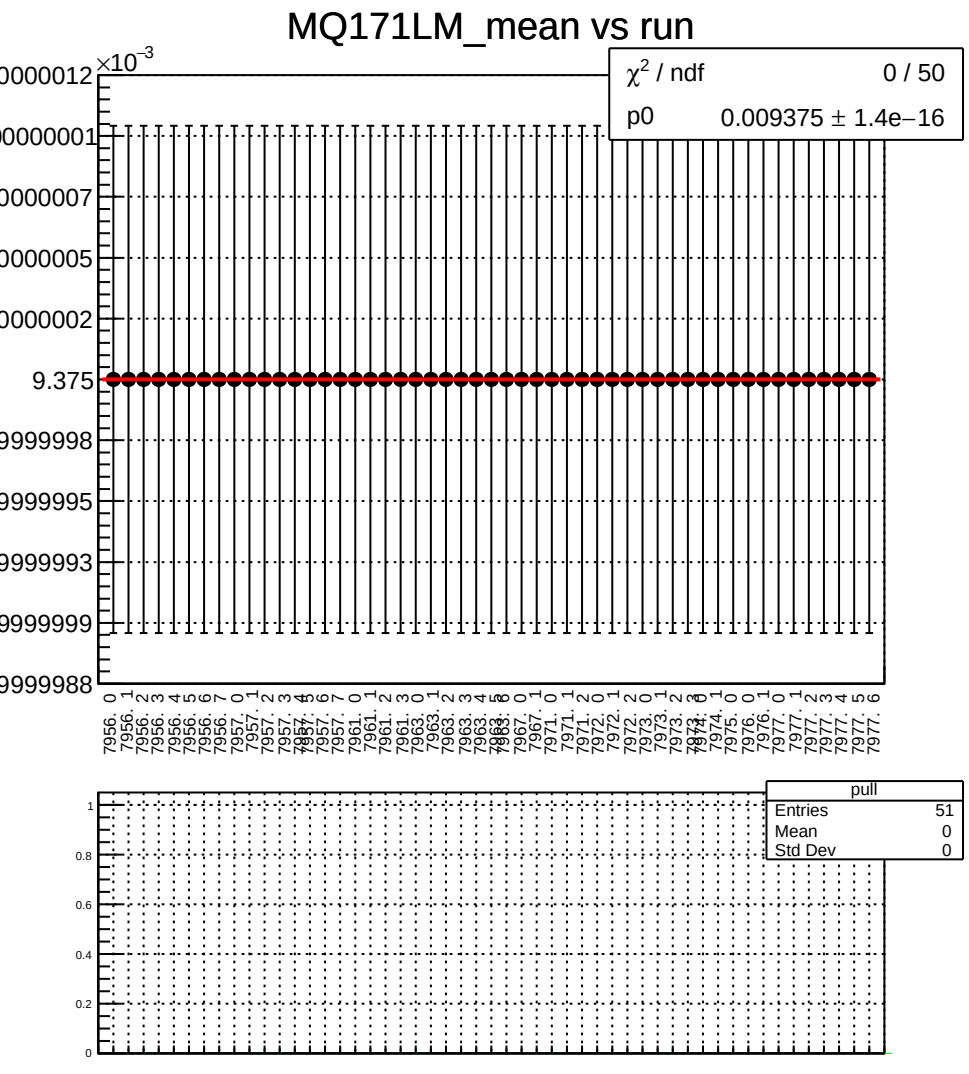

psub_pl_pos_mean vs run
χ² / ndf 4.219e+07 / 50
p0 1500 ± 1.4e–16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 51
Mean 25.5
Std Dev 14.72
0
–200
–400
–600
–800
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

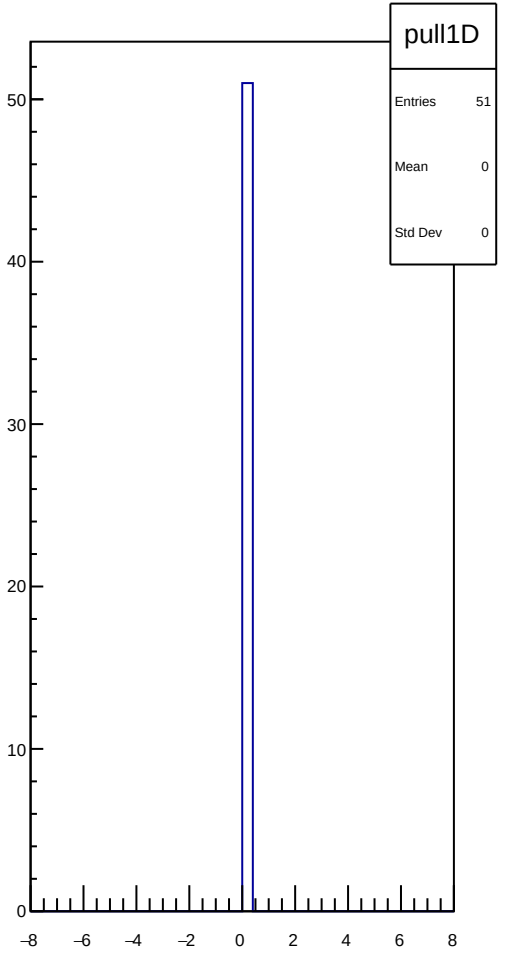

Phi_FG_mean vs run
χ² / ndf 6.592e+05 / 50
p0 89.96 ± 1.4e–16
91
90.8
90.6
90.4
90.2
90
pull
Entries 51
Mean 25.5
Std Dev 14.72
100
80
60
40
20
0
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

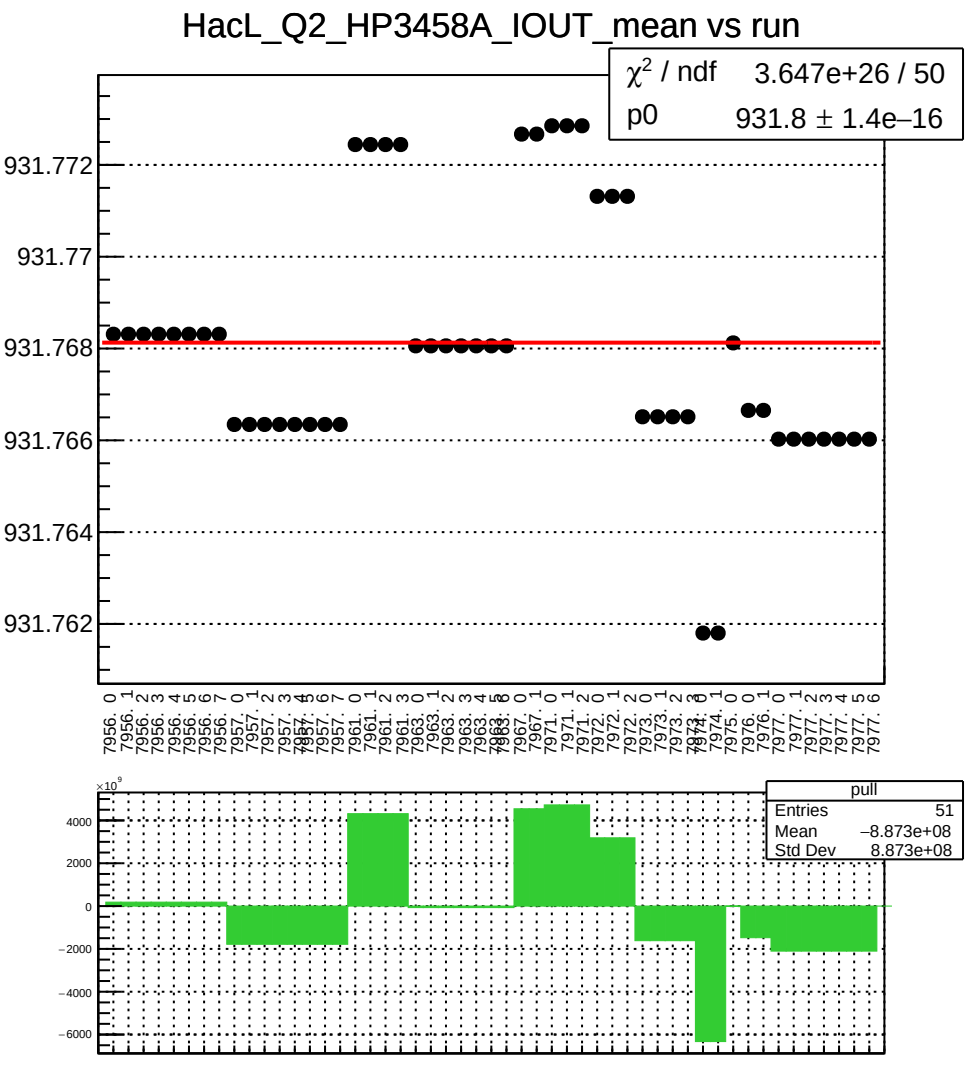

HALLA_p_mean vs run
χ² / ndf 6.197e+29 / 50
p0 2176 ± 1.4e–16
2175.95
2175.9
2175.85
2175.8
2175.75
2175.7
pull
Entries 51
Mean 7.886e+09
Std Dev 7.886e+09
pull1D
Entries 51
Mean 0
Std Dev 0

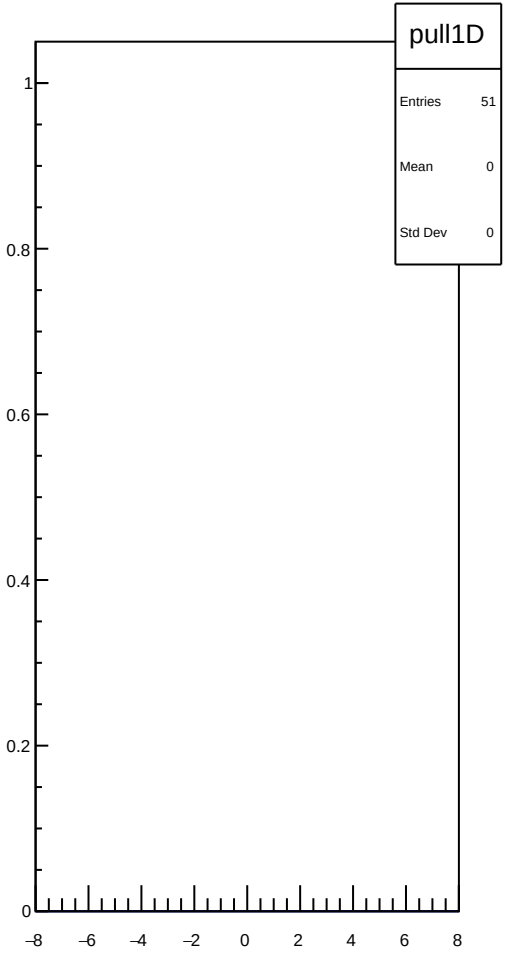

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.657e+23 / 50
p0 −5.128e−05 ± 1.4e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 51
Mean −8.271e+09
Std Dev 8.271e+09
×10⁹
60
40
20
0
−20
−40
−60

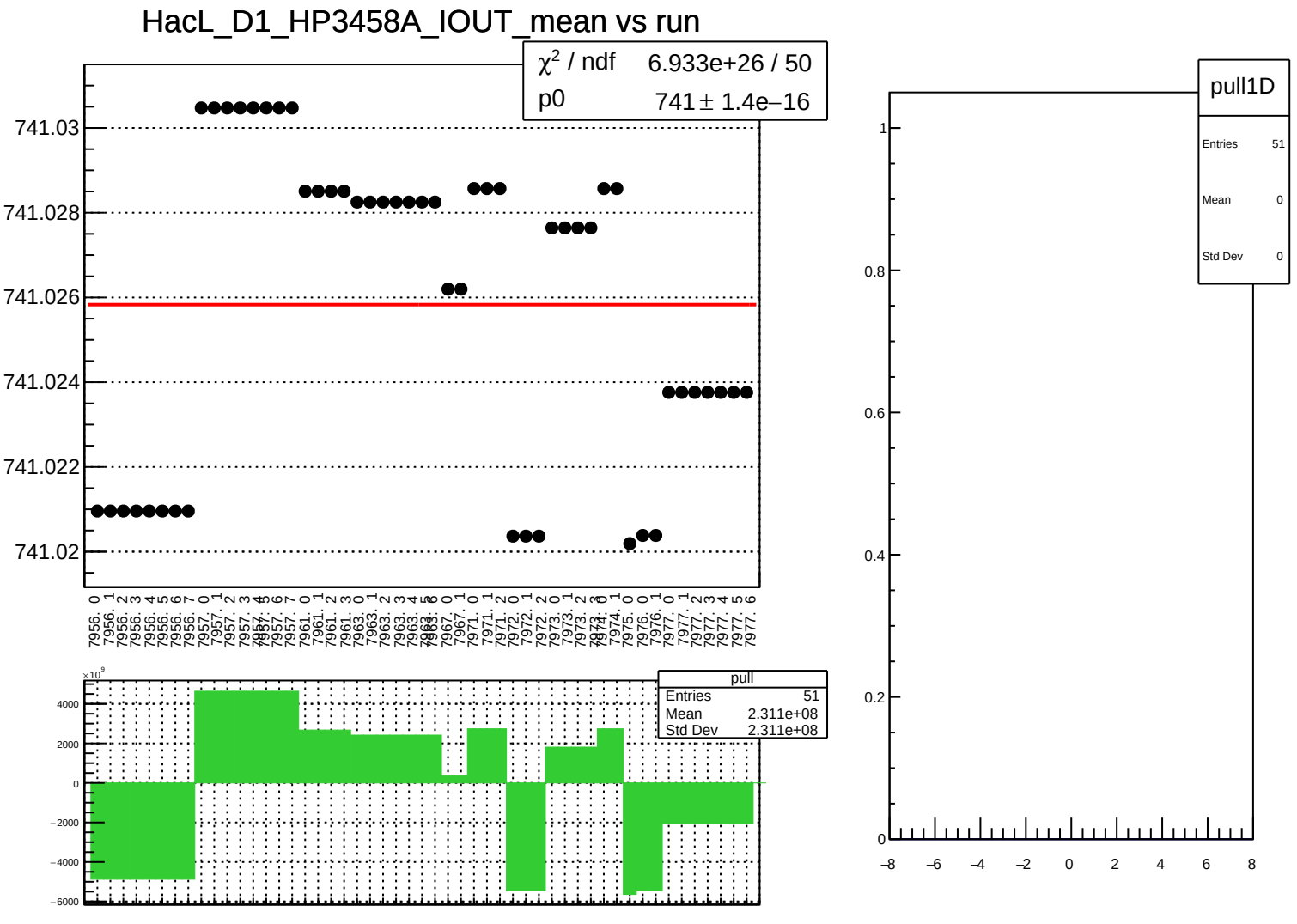

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

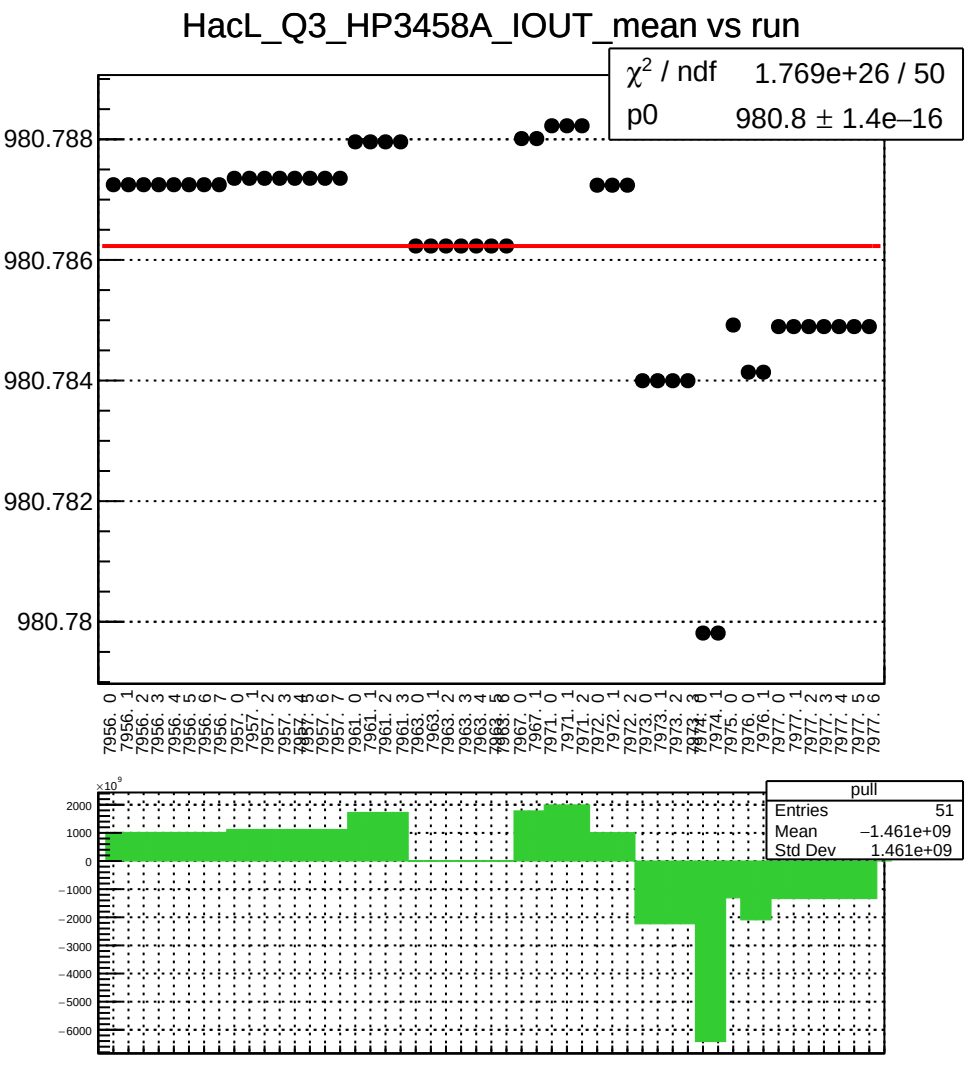

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0 / 50
p0 0.009375 ± 1.4e−16
pull
Entries 51
Mean 0
Std Dev 0

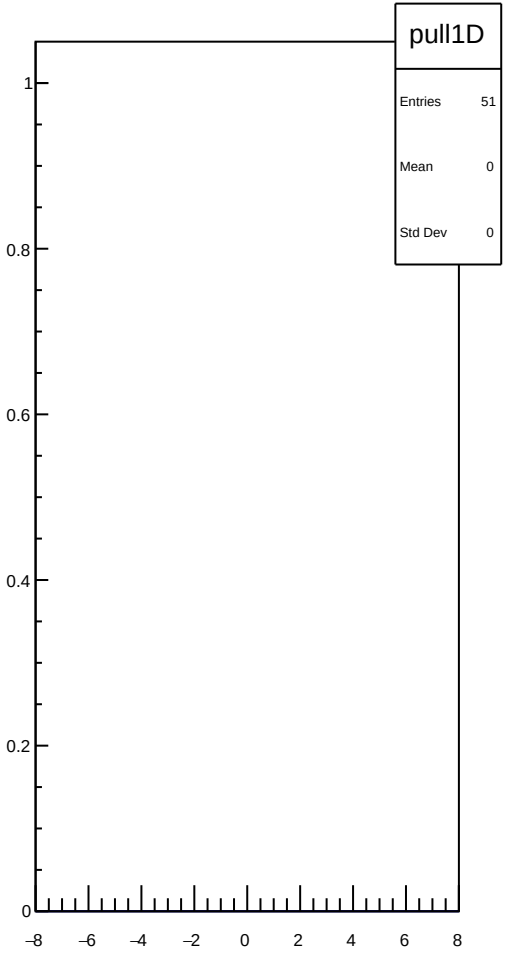

pull1D
Entries 51
Mean 0
Std Dev 0

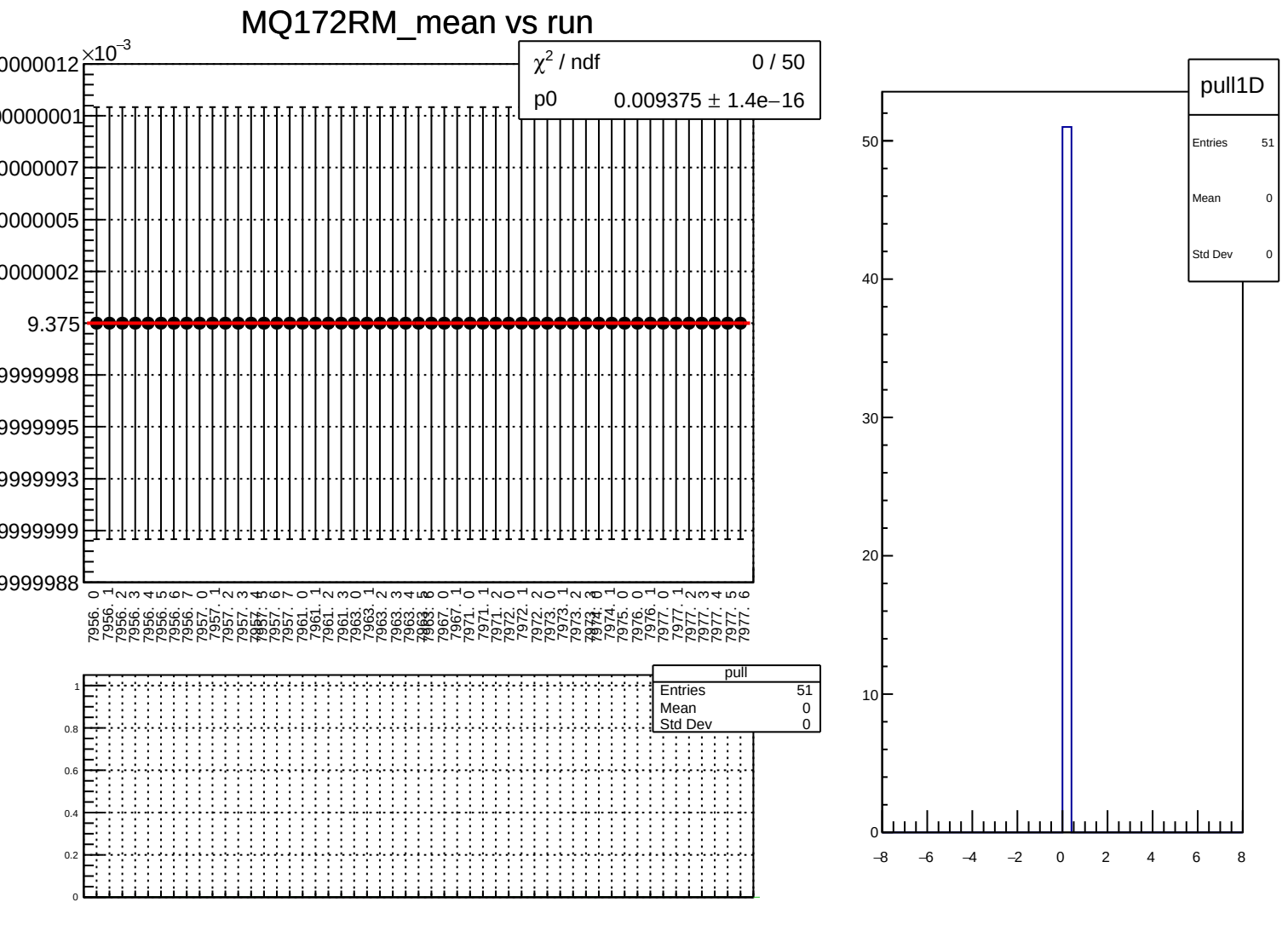

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.647e+26 / 50
p0 931.8 ± 1.4e–16
931.772
931.77
931.768
931.766
931.764
931.762
pull
Entries 51
Mean –8.873e+08
Std Dev 8.873e+08
×10⁹
4000
2000
0
−2000
−4000
−6000

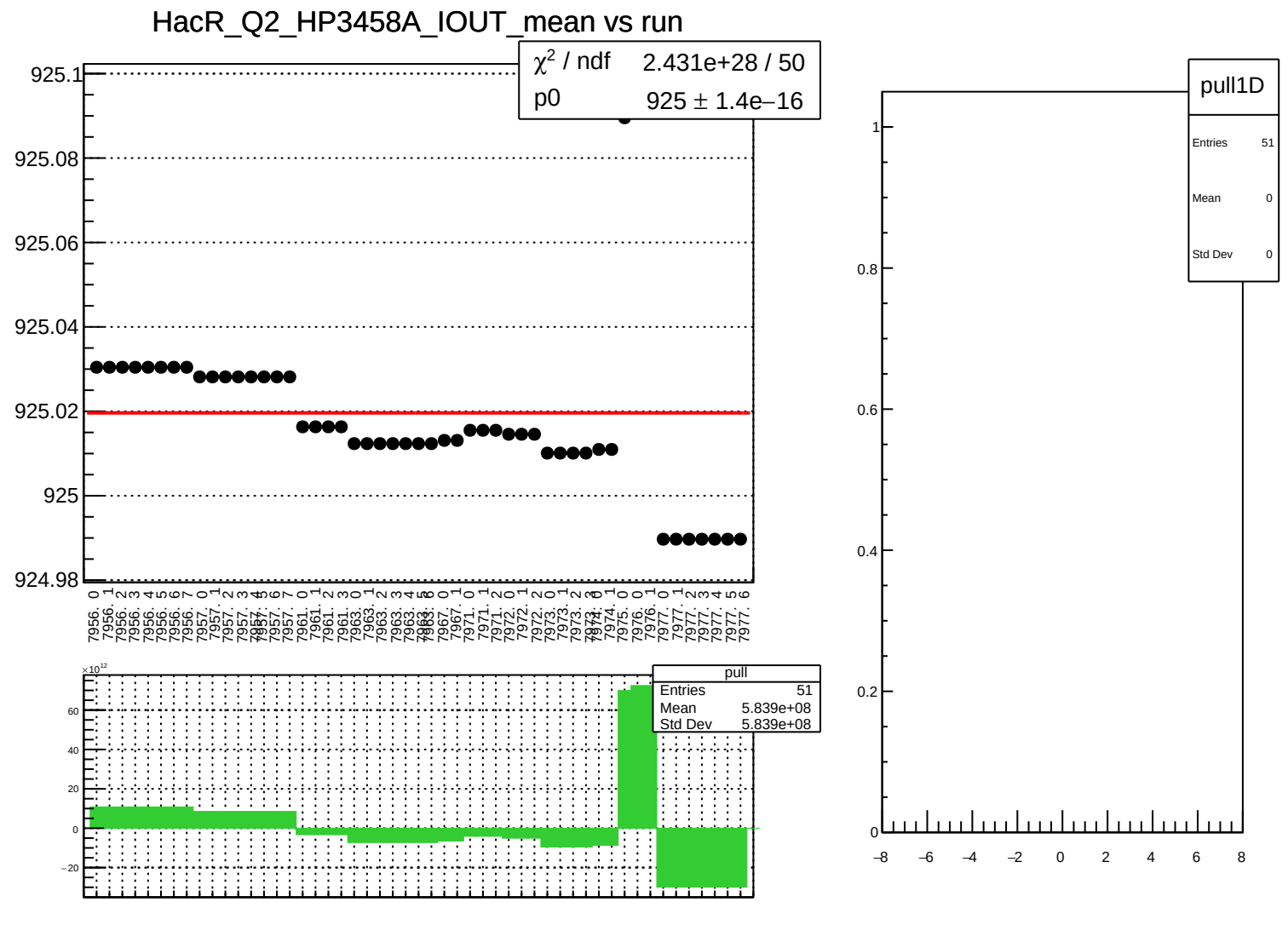

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

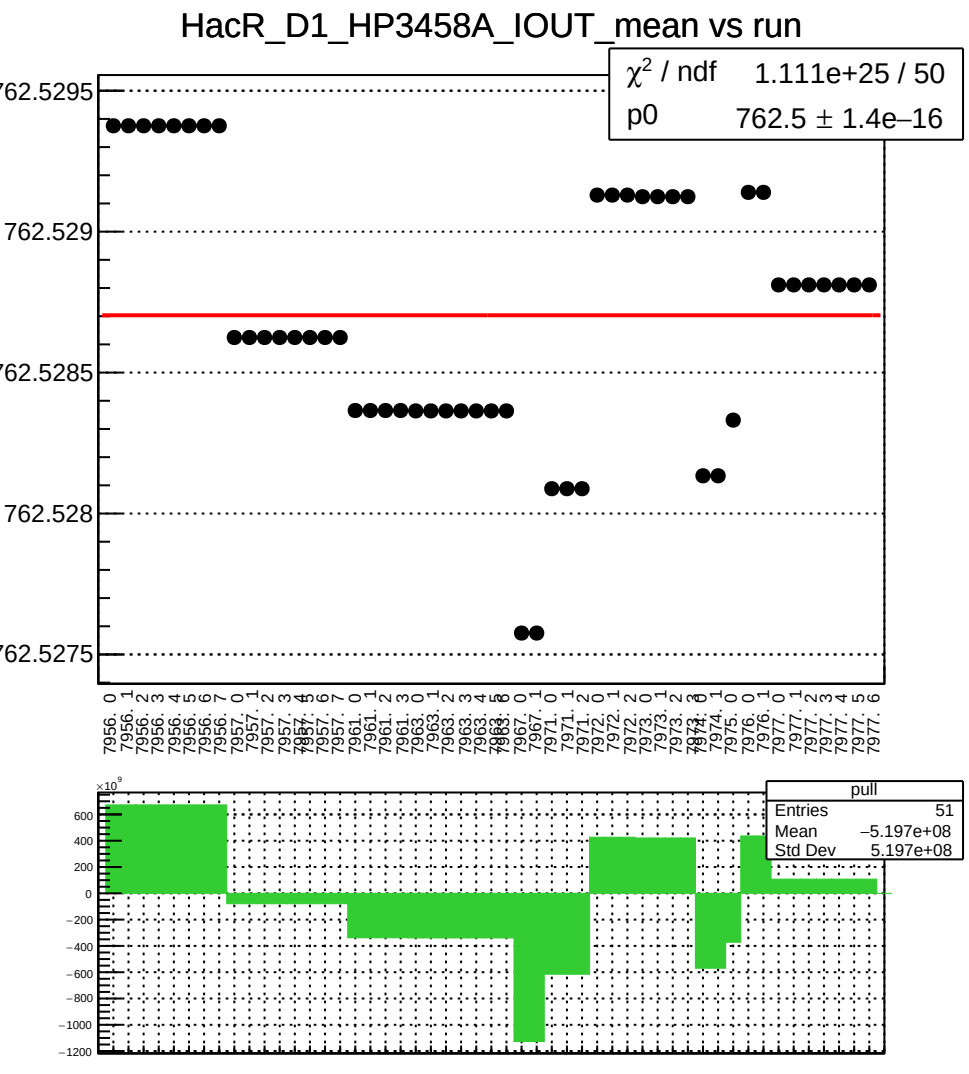

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 6.933e+26 / 50
p0 741 ± 1.4e–16
741.03
741.028
741.026
741.024
741.022
741.02
pull
Entries 51
Mean 2.311e+08
Std Dev 2.311e+08
×10⁹
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

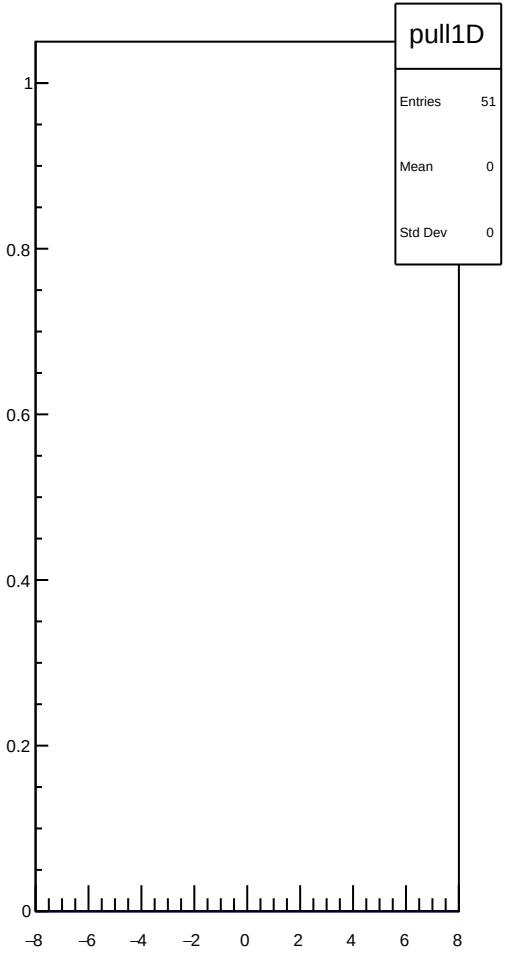

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.769e+26 / 50
p0 980.8 ± 1.4e–16
980.788
980.786
980.784
980.782
980.78
pull
Entries 51
Mean –1.461e+09
Std Dev 1.461e+09
×10⁹
2000
1000
0
–1000
–2000
–3000
–4000
–5000
–6000

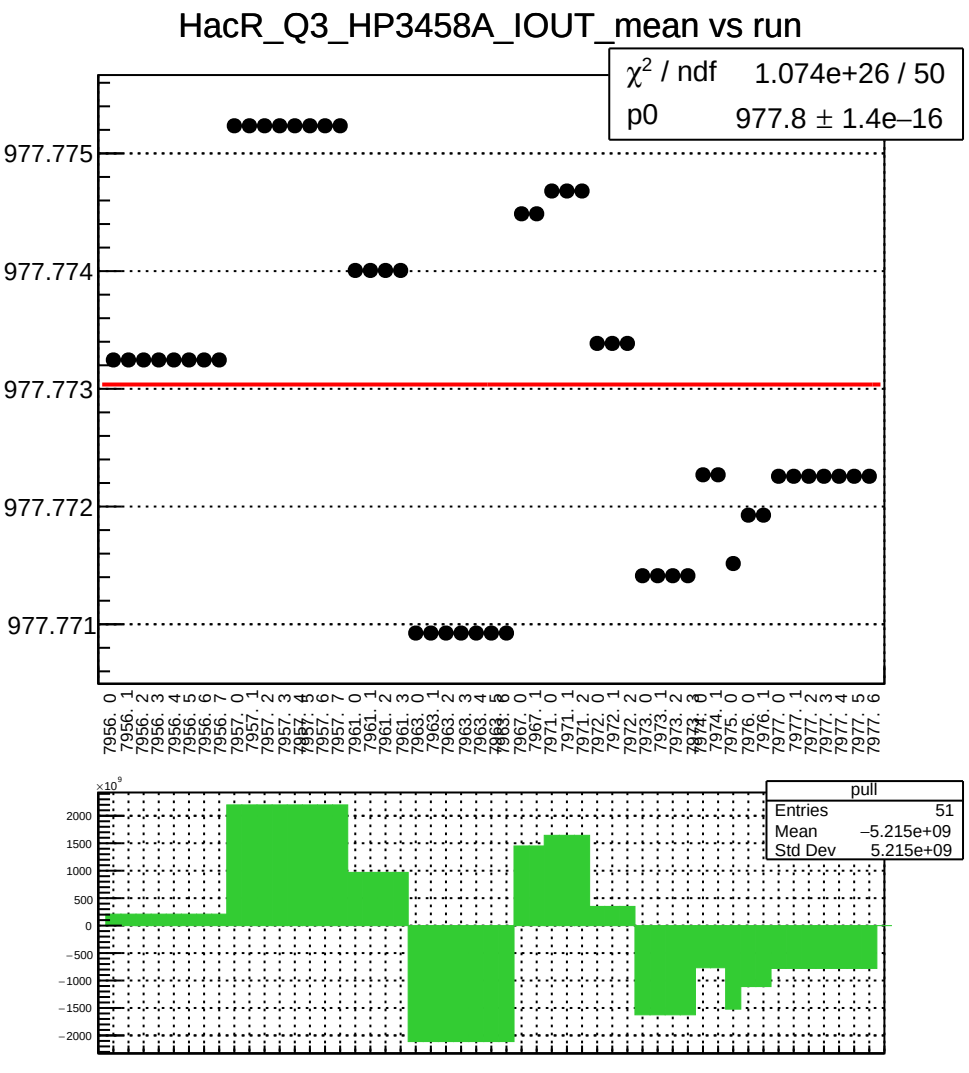

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

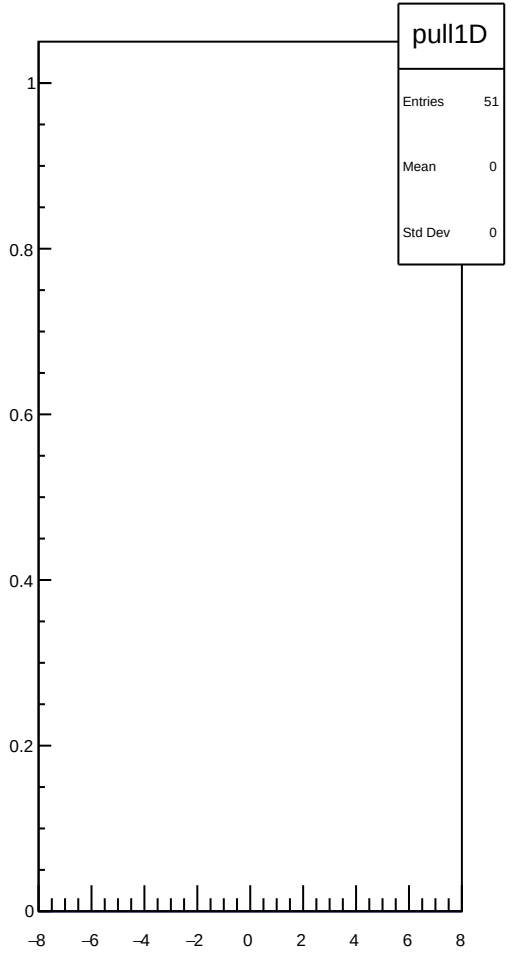

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0 / 50
p0 0.009375 ± 1.4e−16
pull
Entries 51
Mean 0
Std Dev 0
pull1D
Entries 51
Mean 0
Std Dev 0

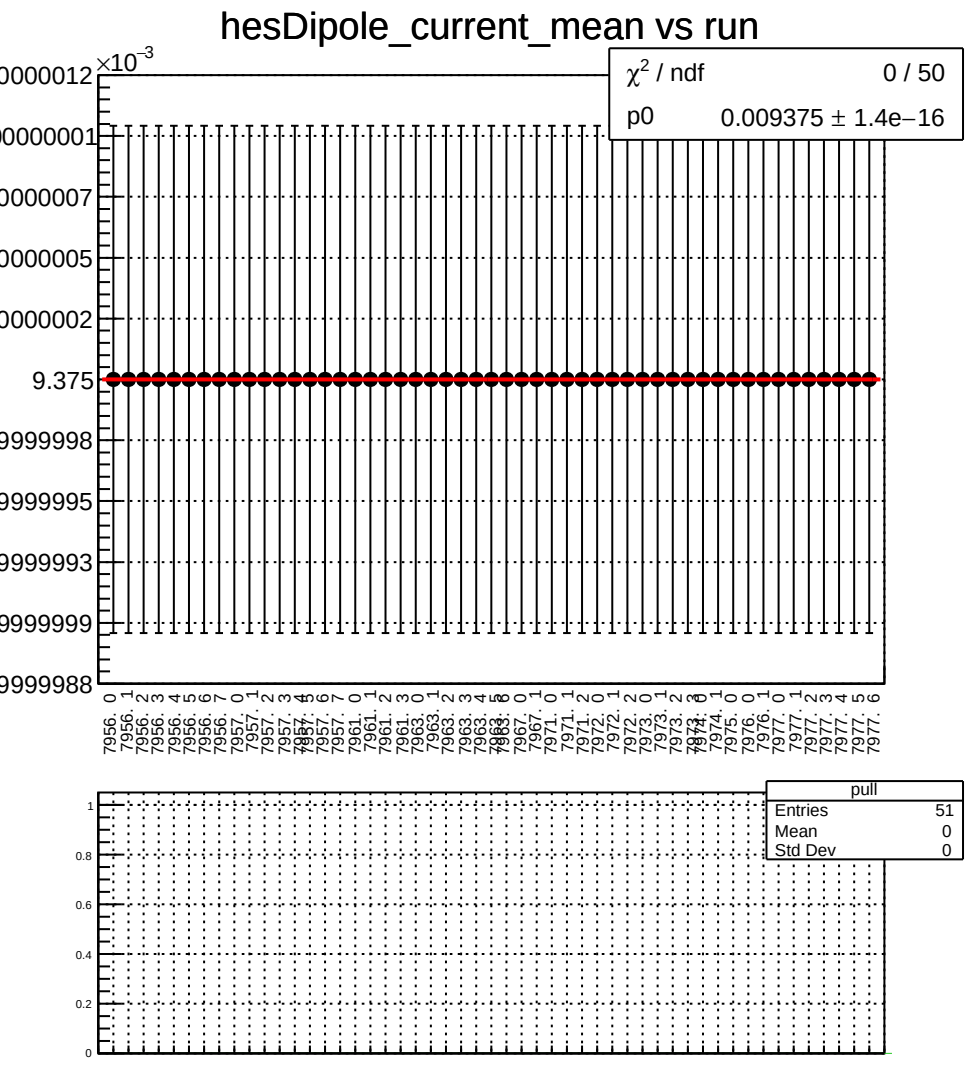

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.431e+28 / 50
p0 925 ± 1.4e−16
925.1
925.08
925.06
925.04
925.02
925
924.98
pull
Entries 51
Mean 5.839e+08
Std Dev 5.839e+08
×10¹²
60
40
20
0
−20
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

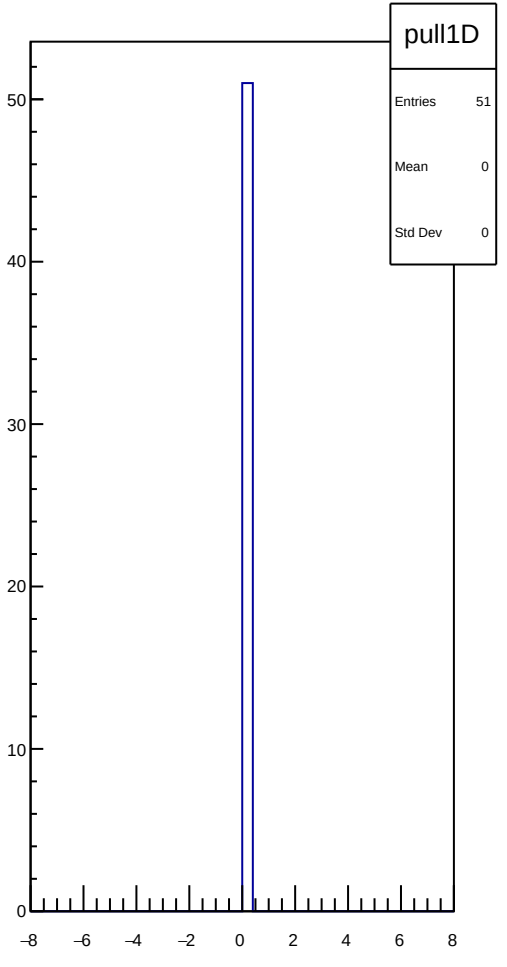

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.111e+25 / 50
p0 762.5 ± 1.4e–16
762.5295
762.529
762.5285
762.528
762.5275
pull
Entries 51
Mean –5.197e+08
Std Dev 5.197e+08
×10⁹
600
400
200
0
–200
–400
–600
–800
–1000
–1200

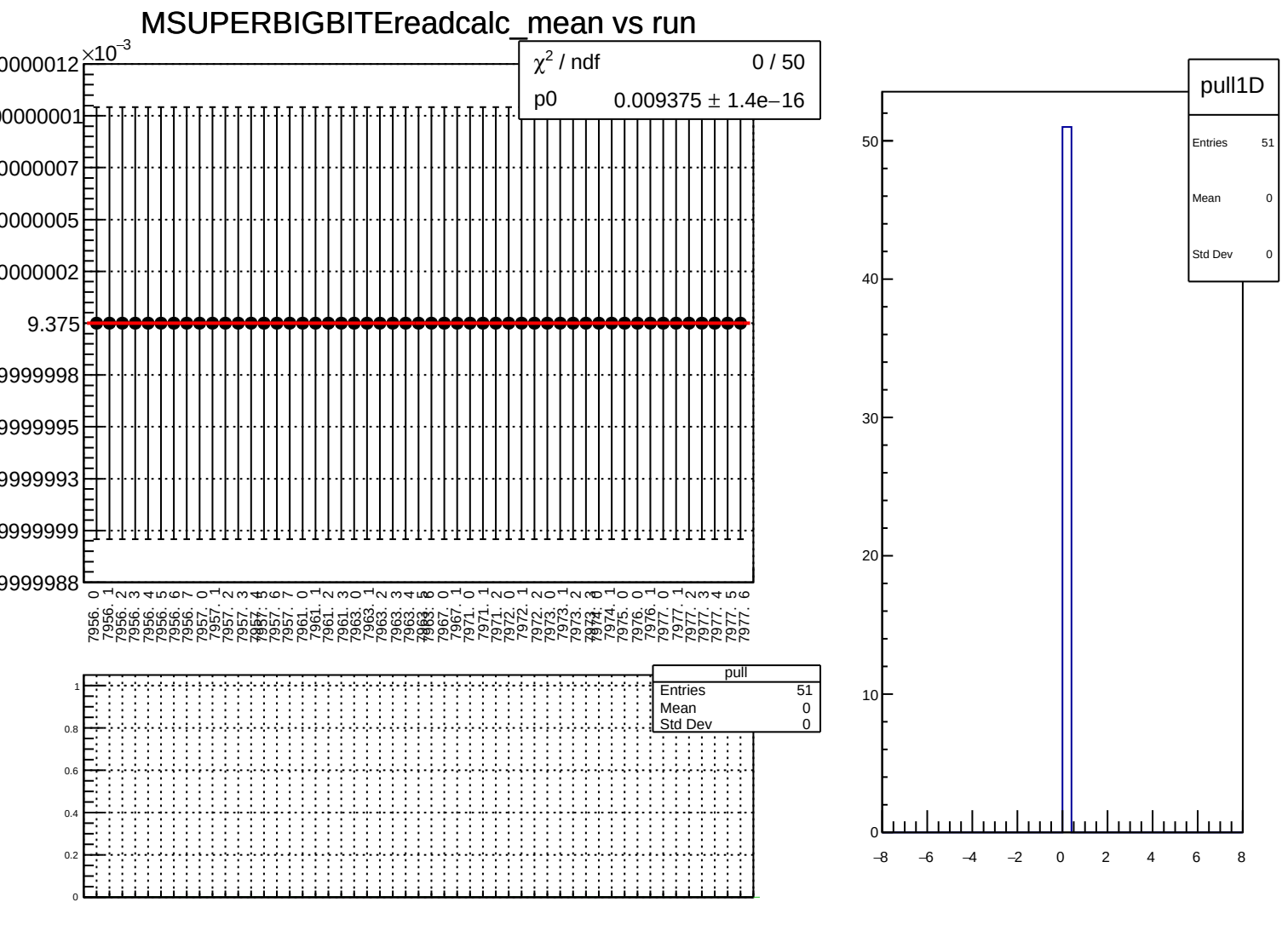

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

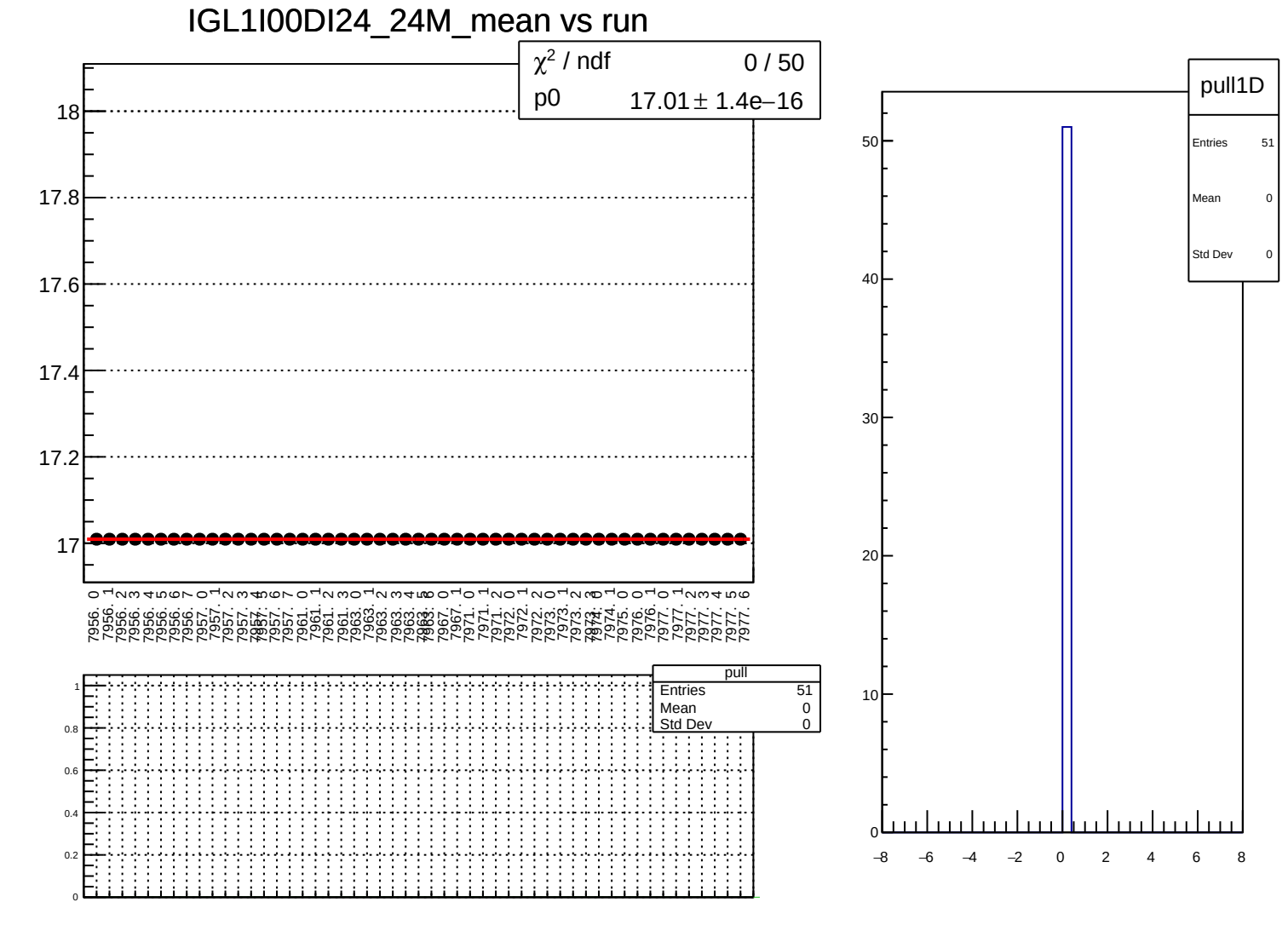

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.074e+26 / 50
p0 977.8 ± 1.4e–16
977.775
977.774
977.773
977.772
977.771
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 51
Mean −5.215e+09
Std Dev 5.215e+09

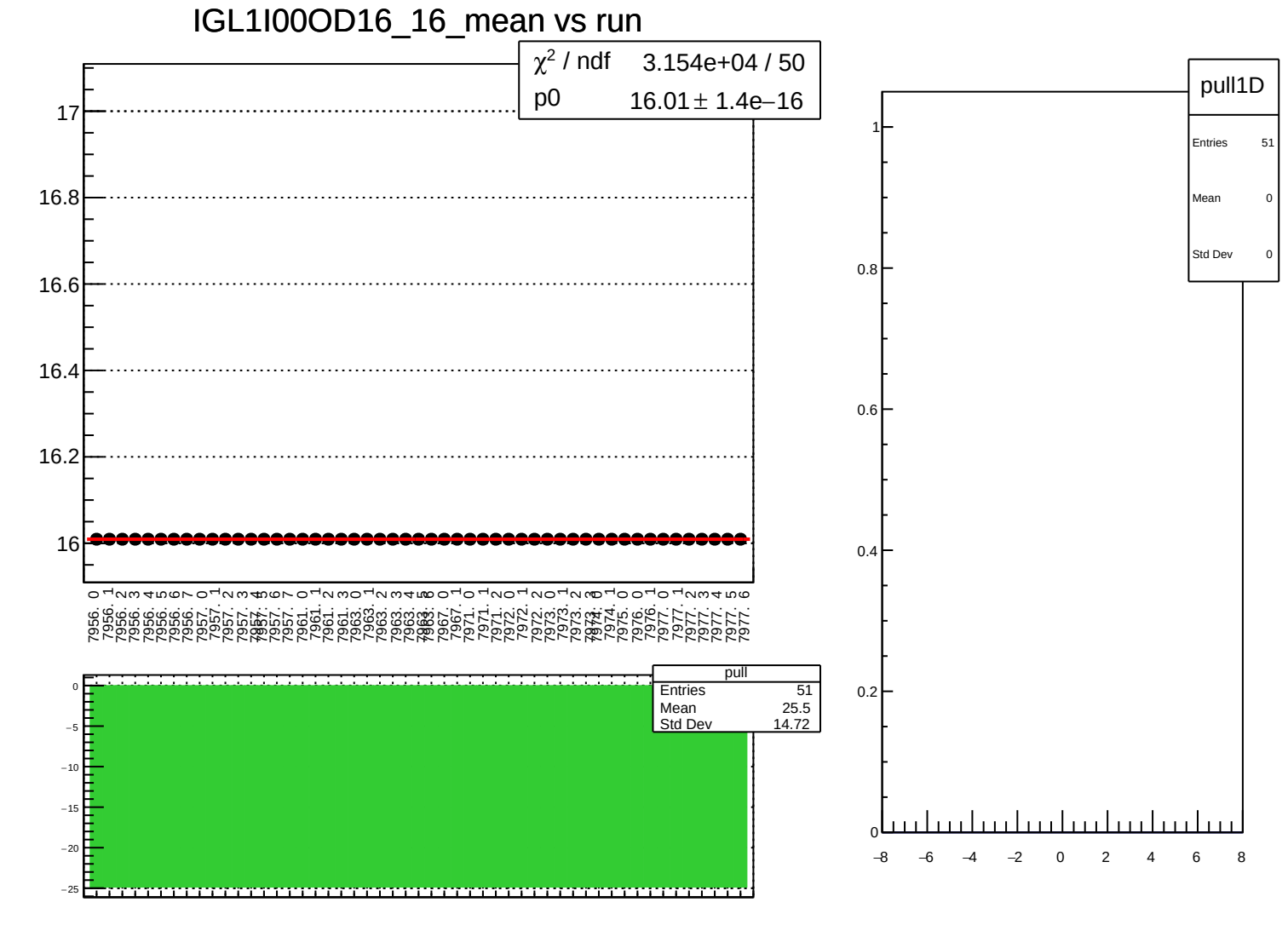

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

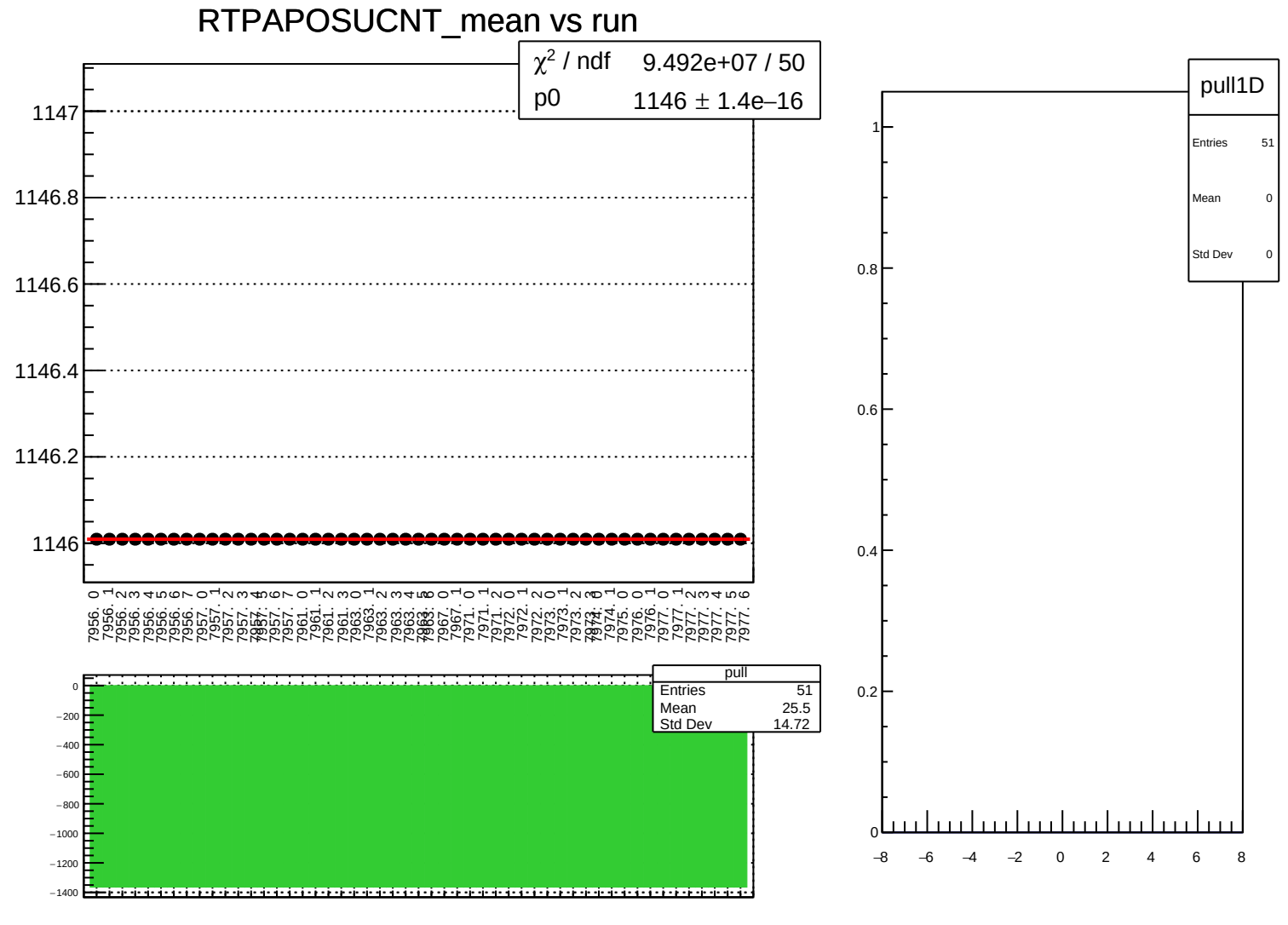

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0 / 50
p0 0.009375 ± 1.4e−16
pull
Entries 51
Mean 0
Std Dev 0

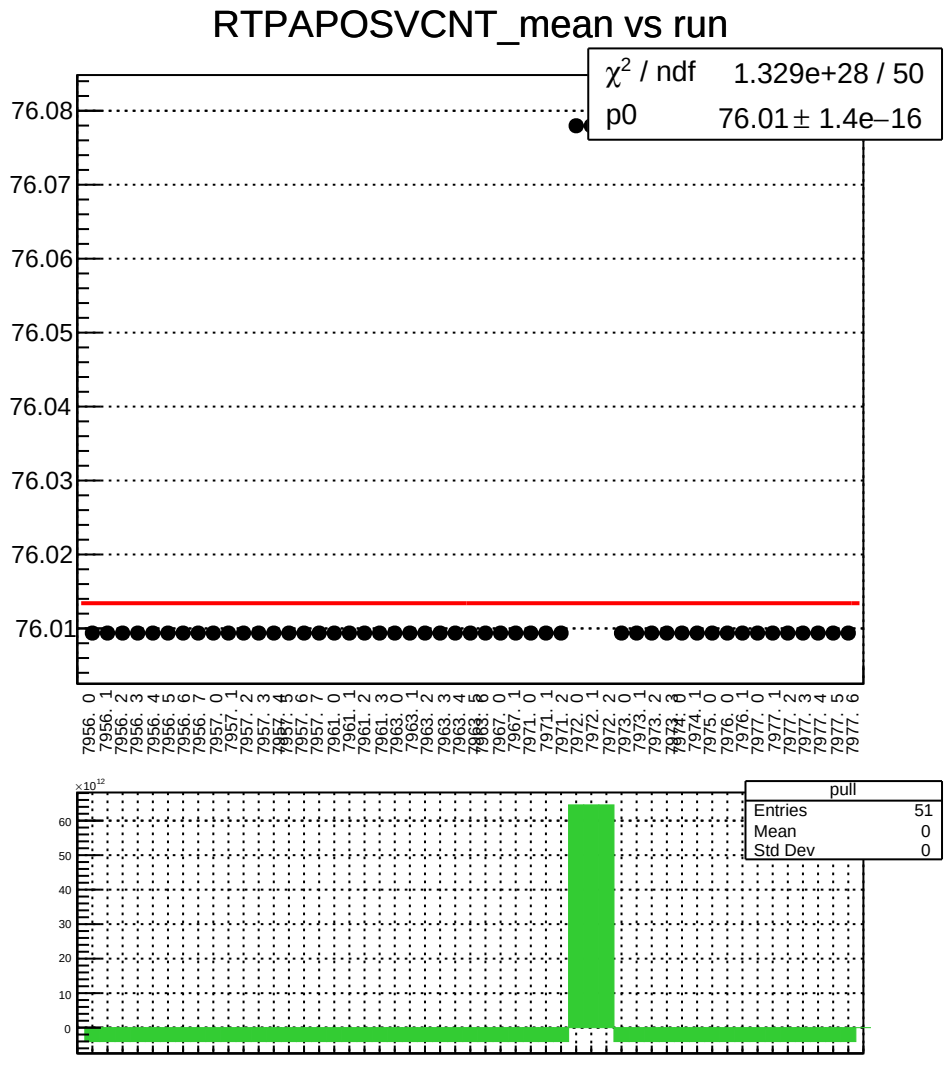

pull1D
Entries 51
Mean 0
Std Dev 0

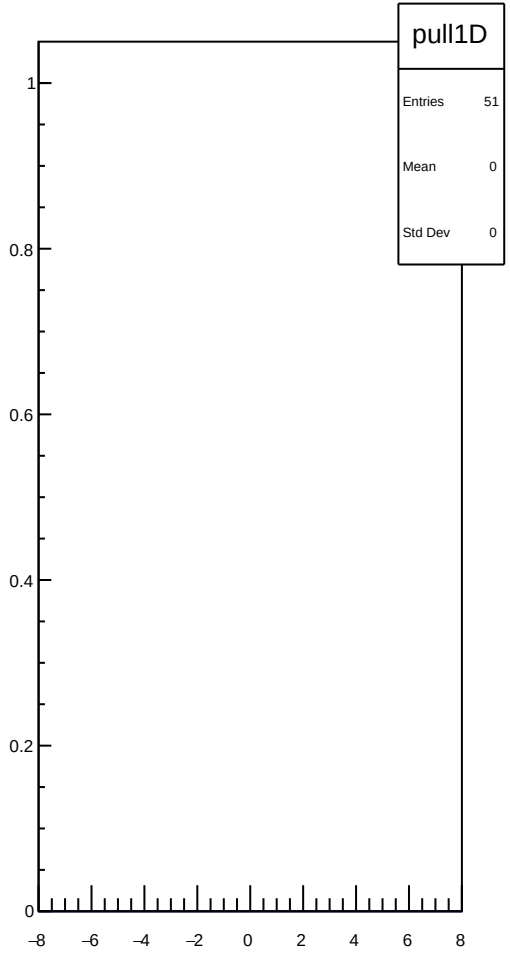

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0 / 50
p0 0.009375 ± 1.4e−16
×10⁻³
9.375
pull
Entries 51
Mean 0
Std Dev 0
pull1D
Entries 51
Mean 0
Std Dev 0


IGL1I00DI24_24M_mean vs run
χ² / ndf 0 / 50
p0 17.01 ± 1.4e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 51
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.154e+04 / 50
p0 16.01 ± 1.4e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 51
Mean 25.5
Std Dev 14.72
0
−5
−10
−15
−20
−25
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 9.492e+07 / 50
p0 1146 ± 1.4e–16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 51
Mean 25.5
Std Dev 14.72
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.329e+28 / 50
p0 76.01 ± 1.4e–16
76.08
76.07
76.06
76.05
76.04
76.03
76.02
76.01
pull
Entries 51
Mean 0
Std Dev 0
×10¹²
60
50
40
30
20
10
0


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