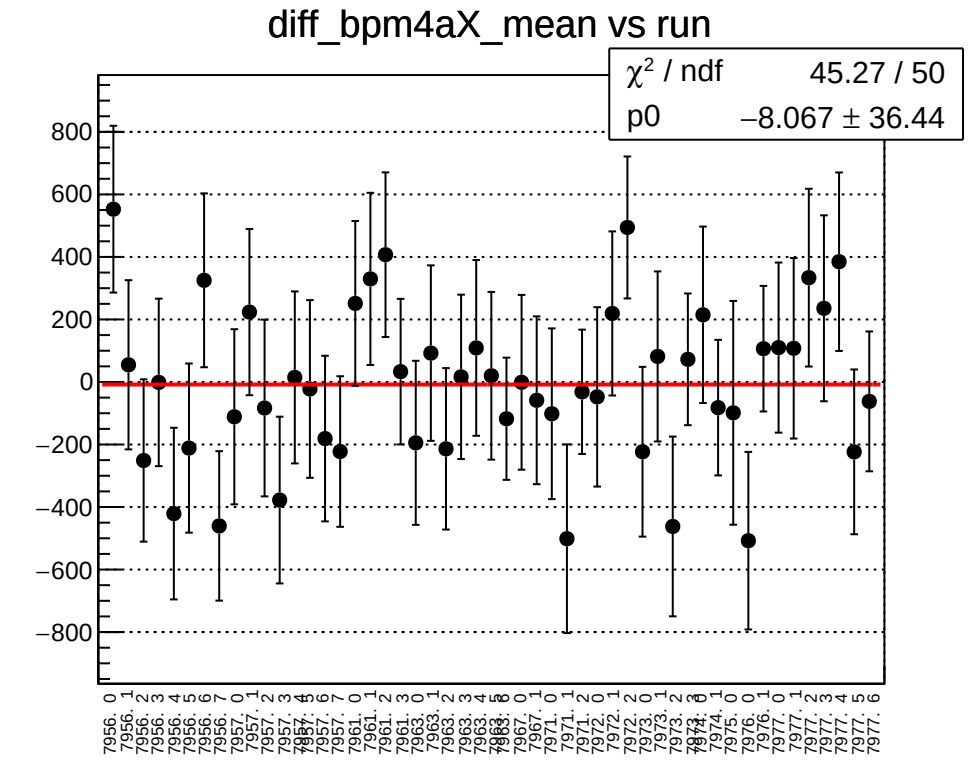
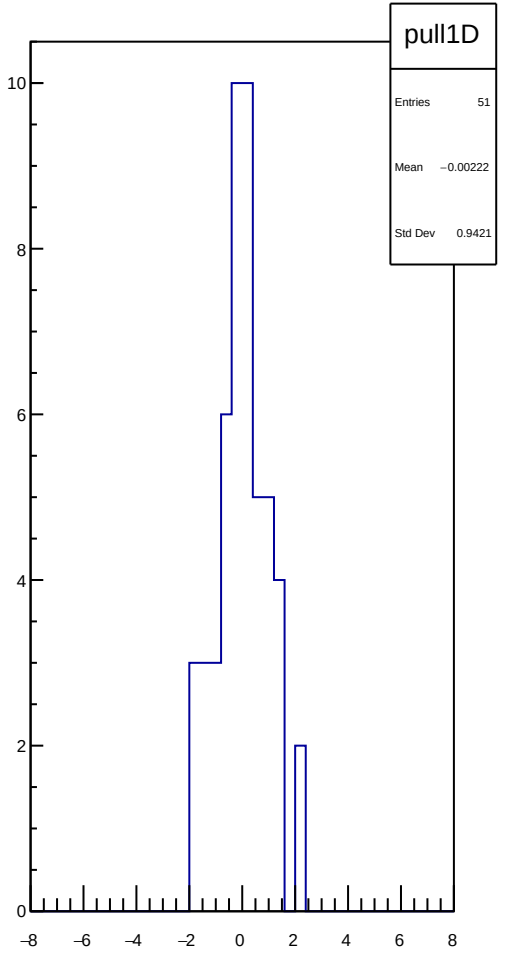
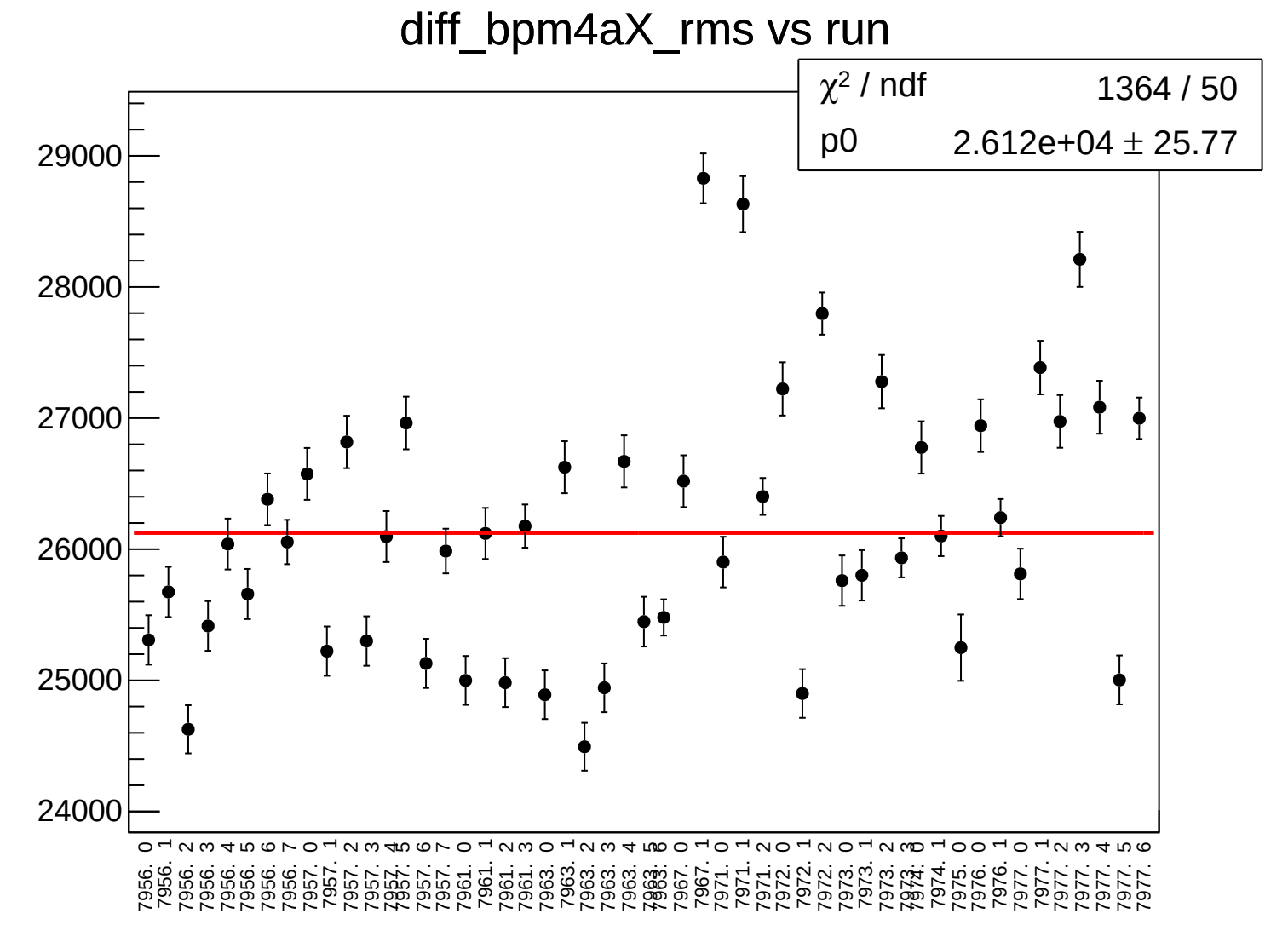

diff_bpm4aX_mean vs run
χ² / ndf 45.27 / 50
p0 −8.067 ± 36.44
pull
Entries 51
Mean −586.6
Std Dev 617


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
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7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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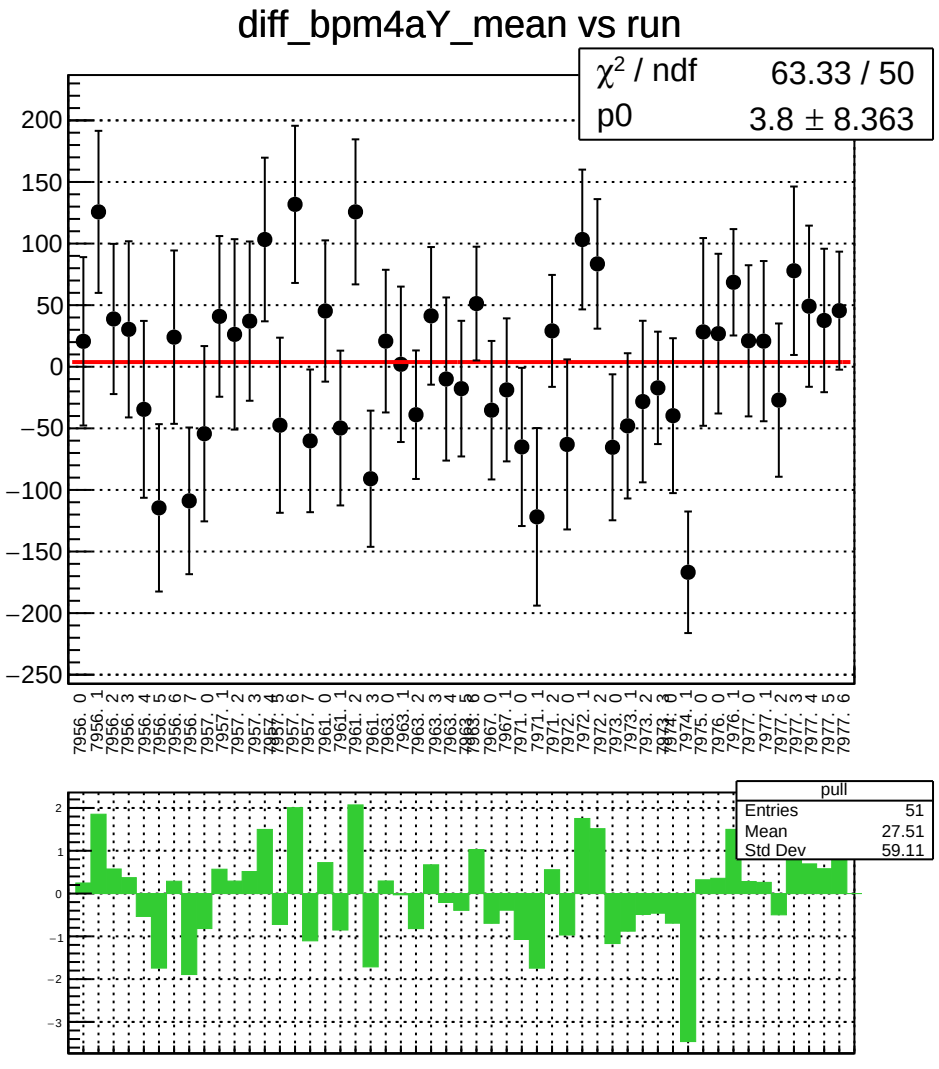
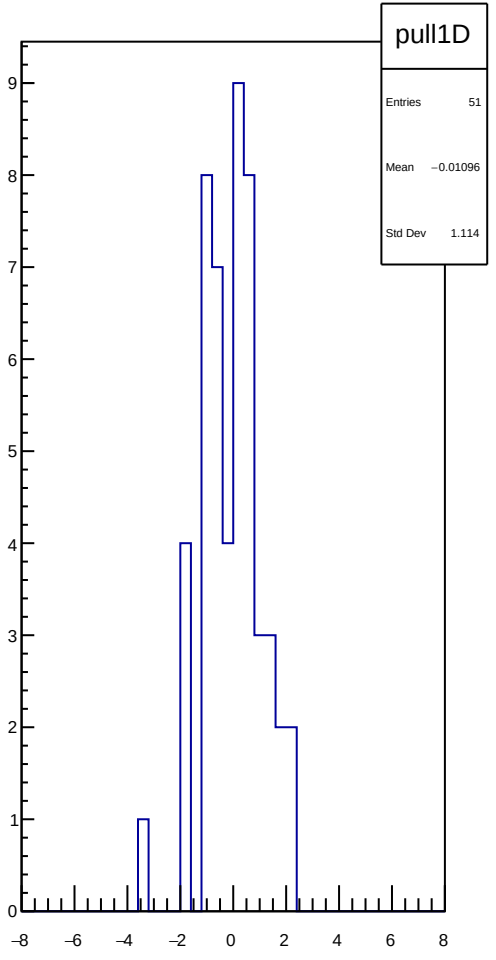
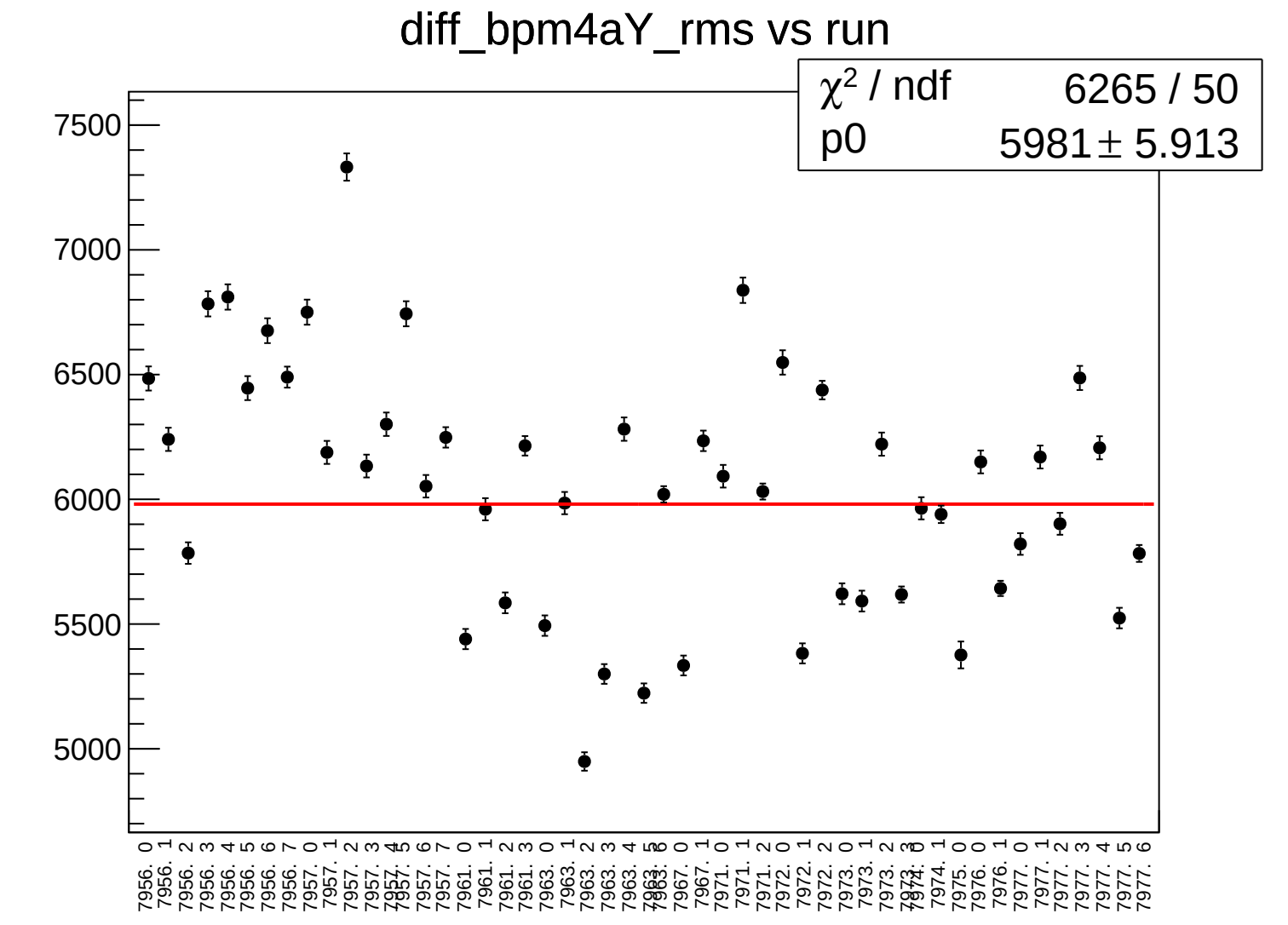
7977. 5
7977. 6


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
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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
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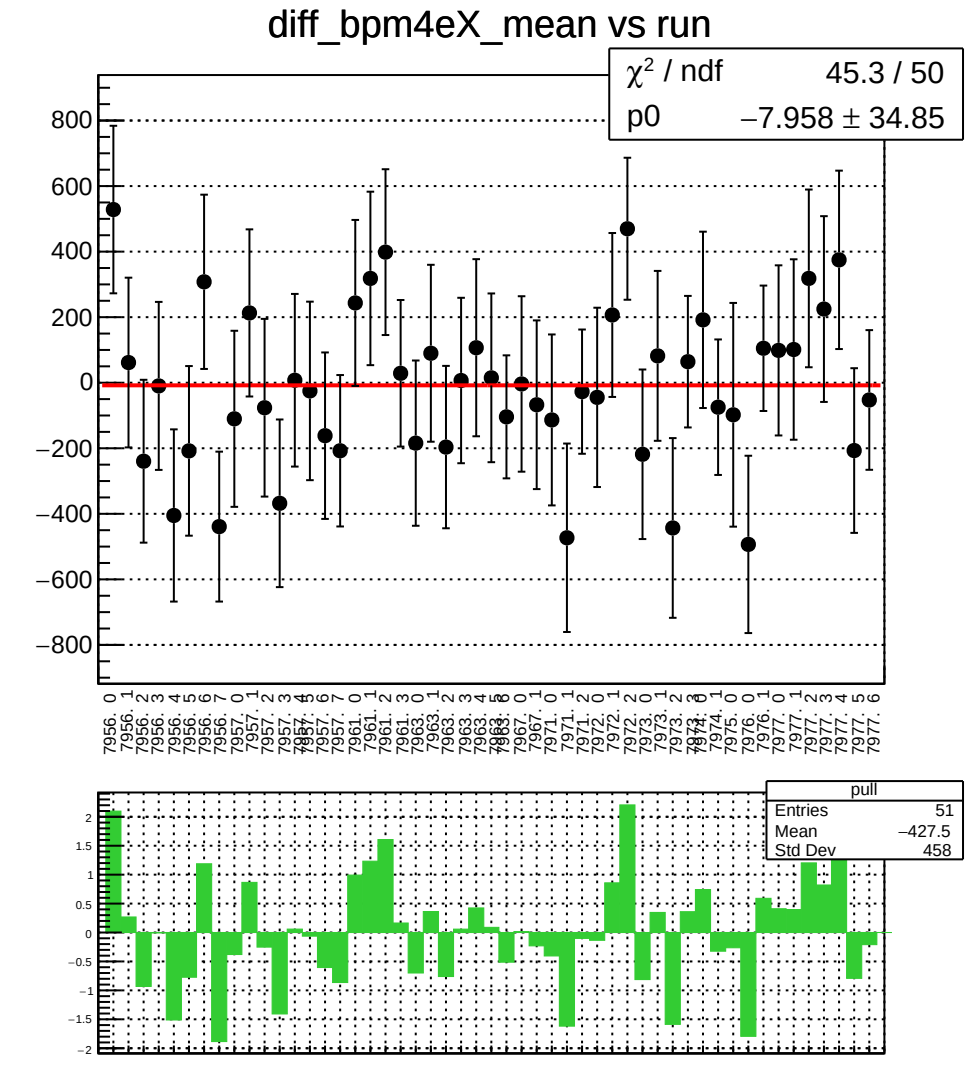
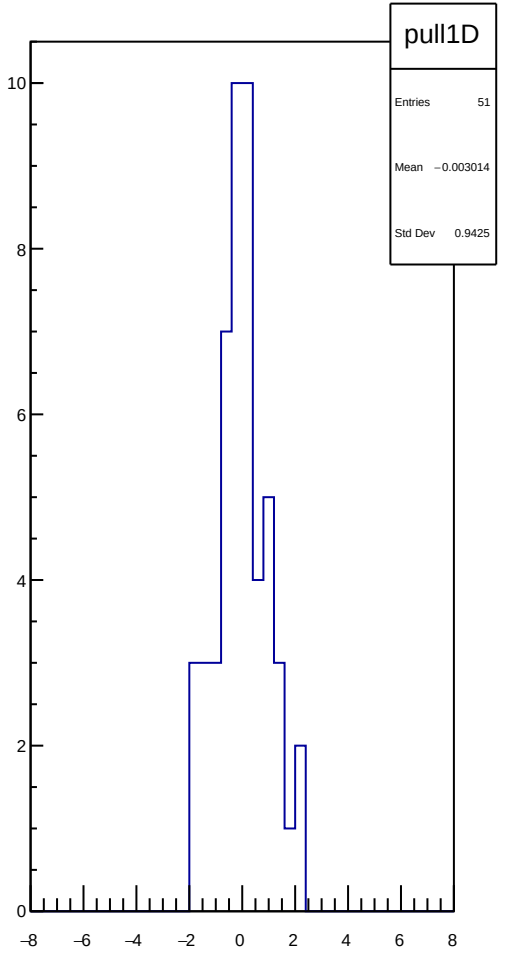
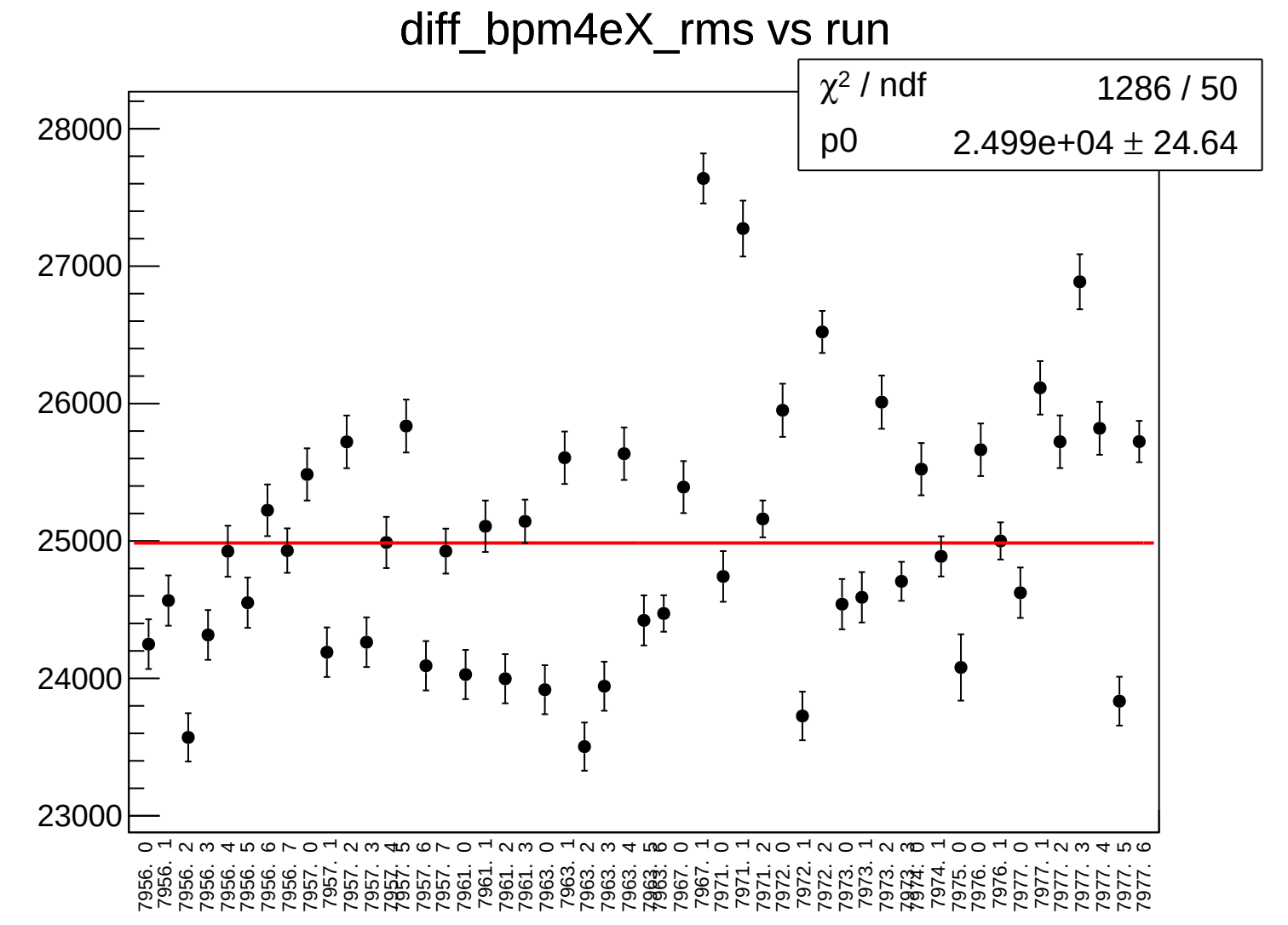
7977. 6


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
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7963. 4
7967. 0
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7971. 1
7971. 2
7972. 0
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7972. 2
7973. 0
7973. 1
7973. 2
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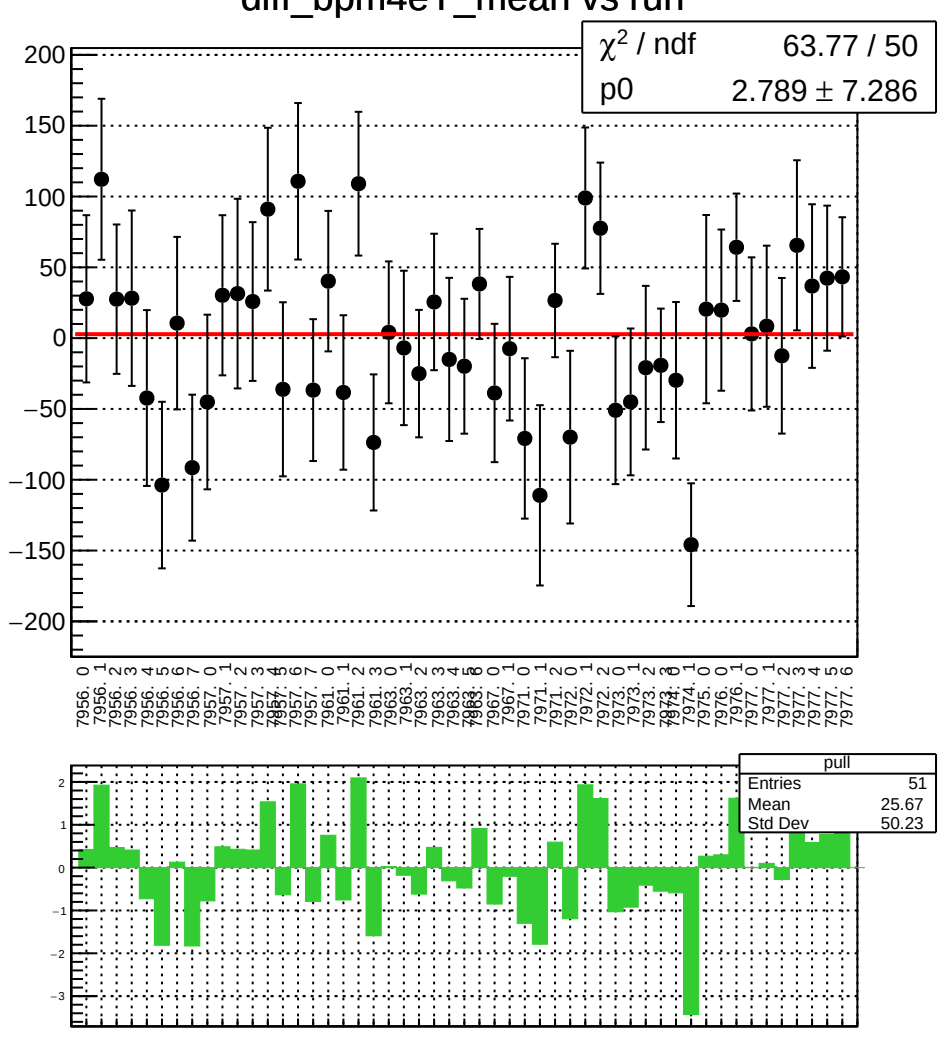
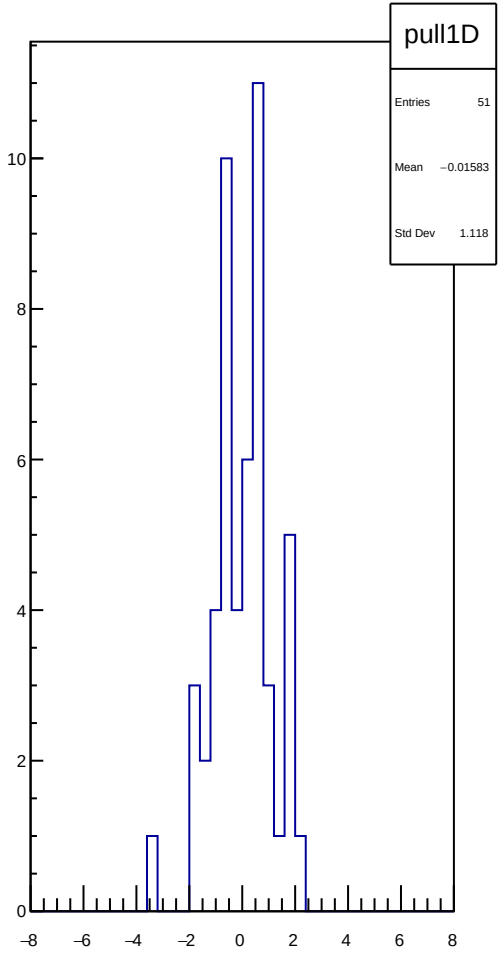
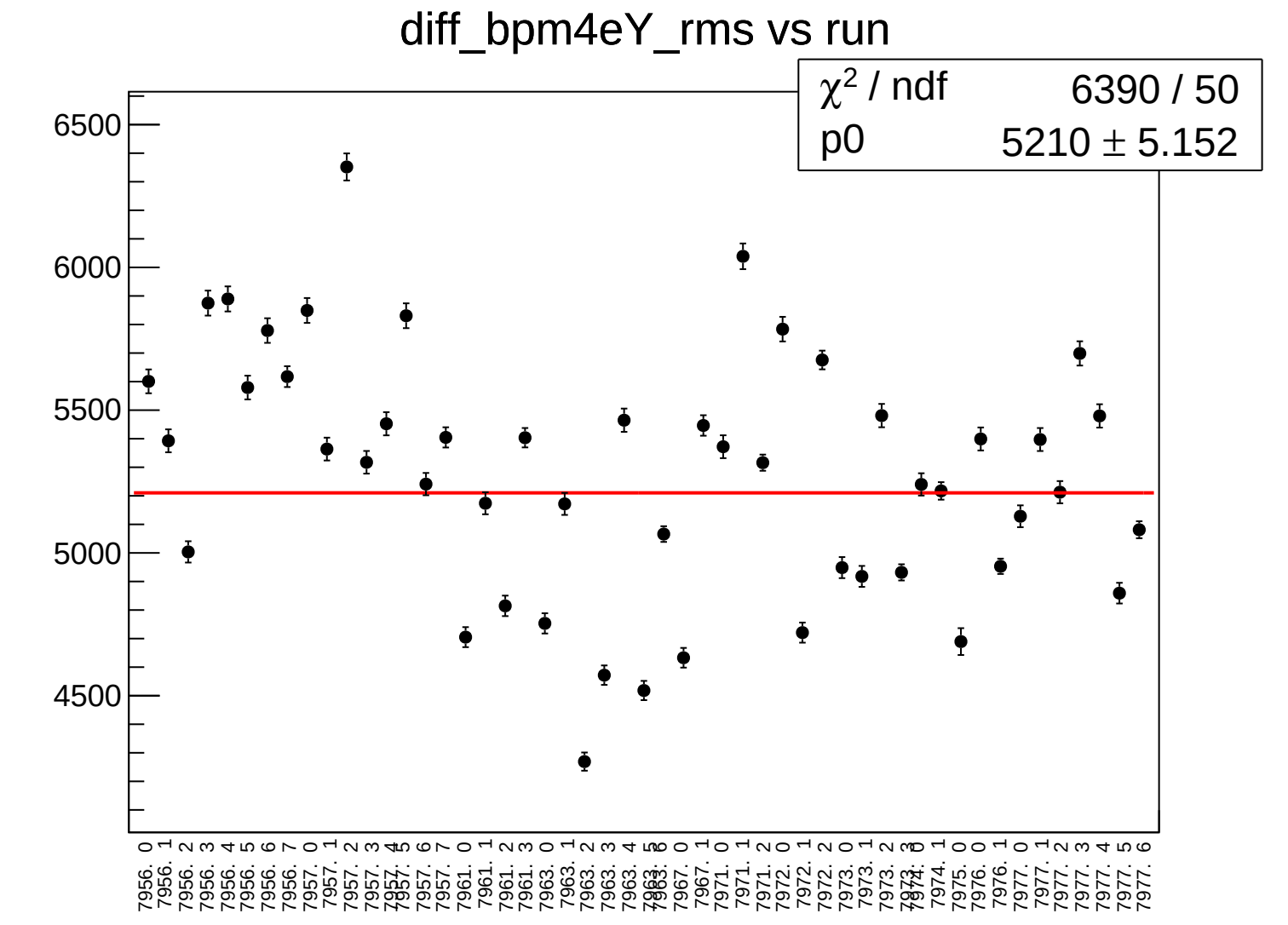
7977. 6


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
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7961. 2
7961. 3
7963. 0
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7963. 4
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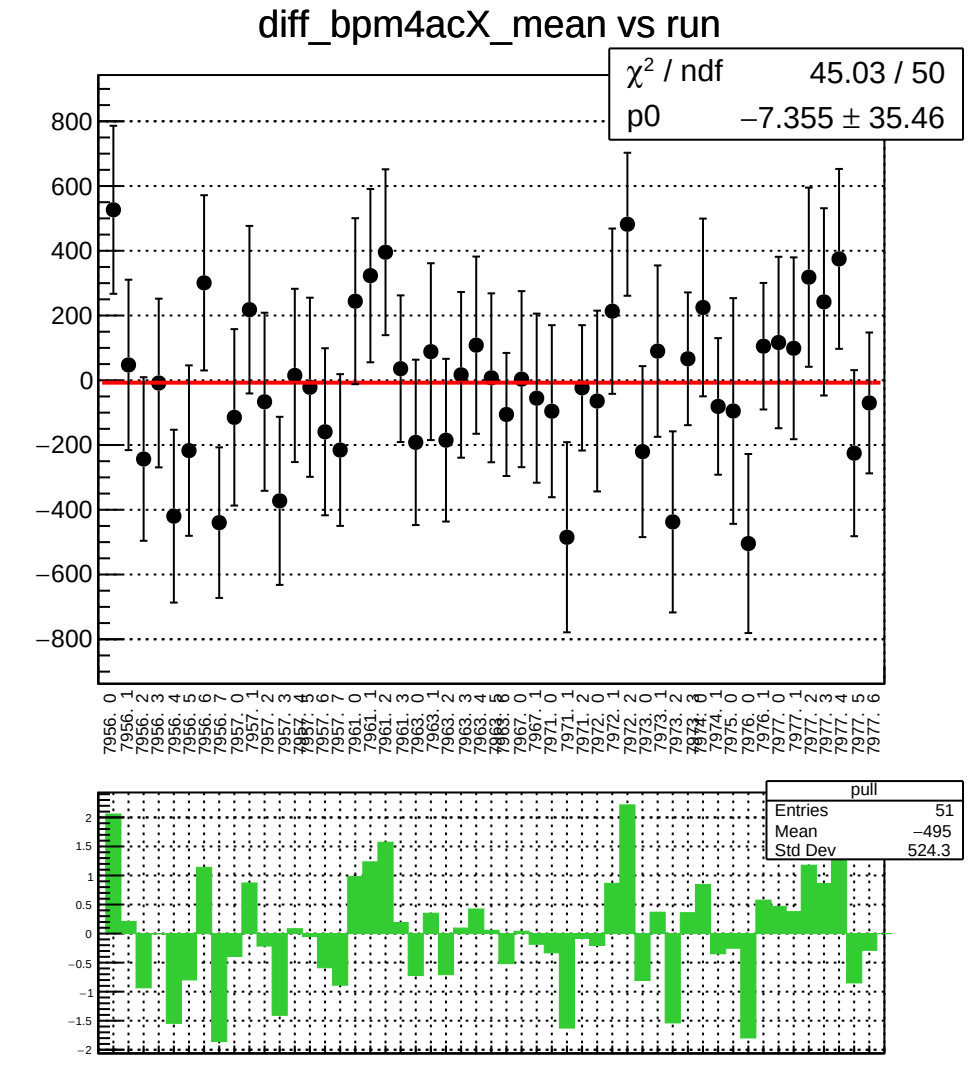
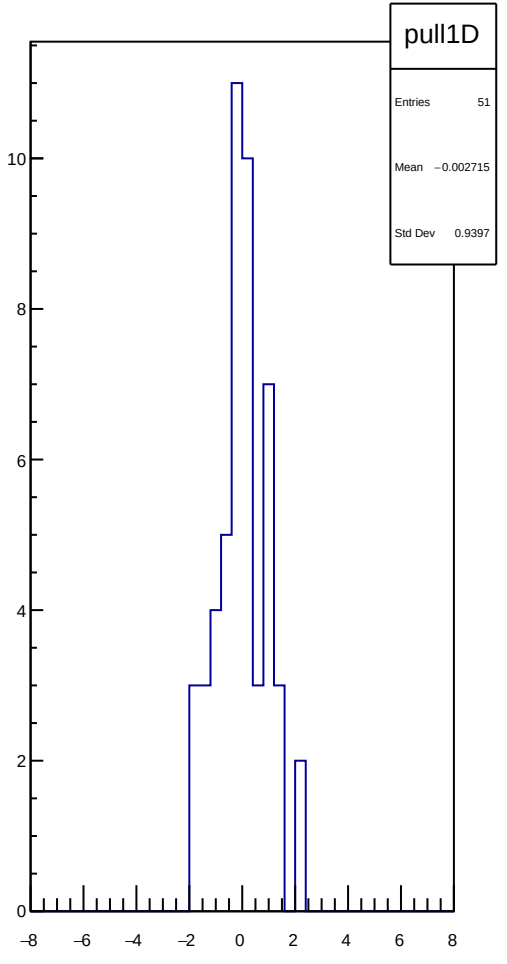
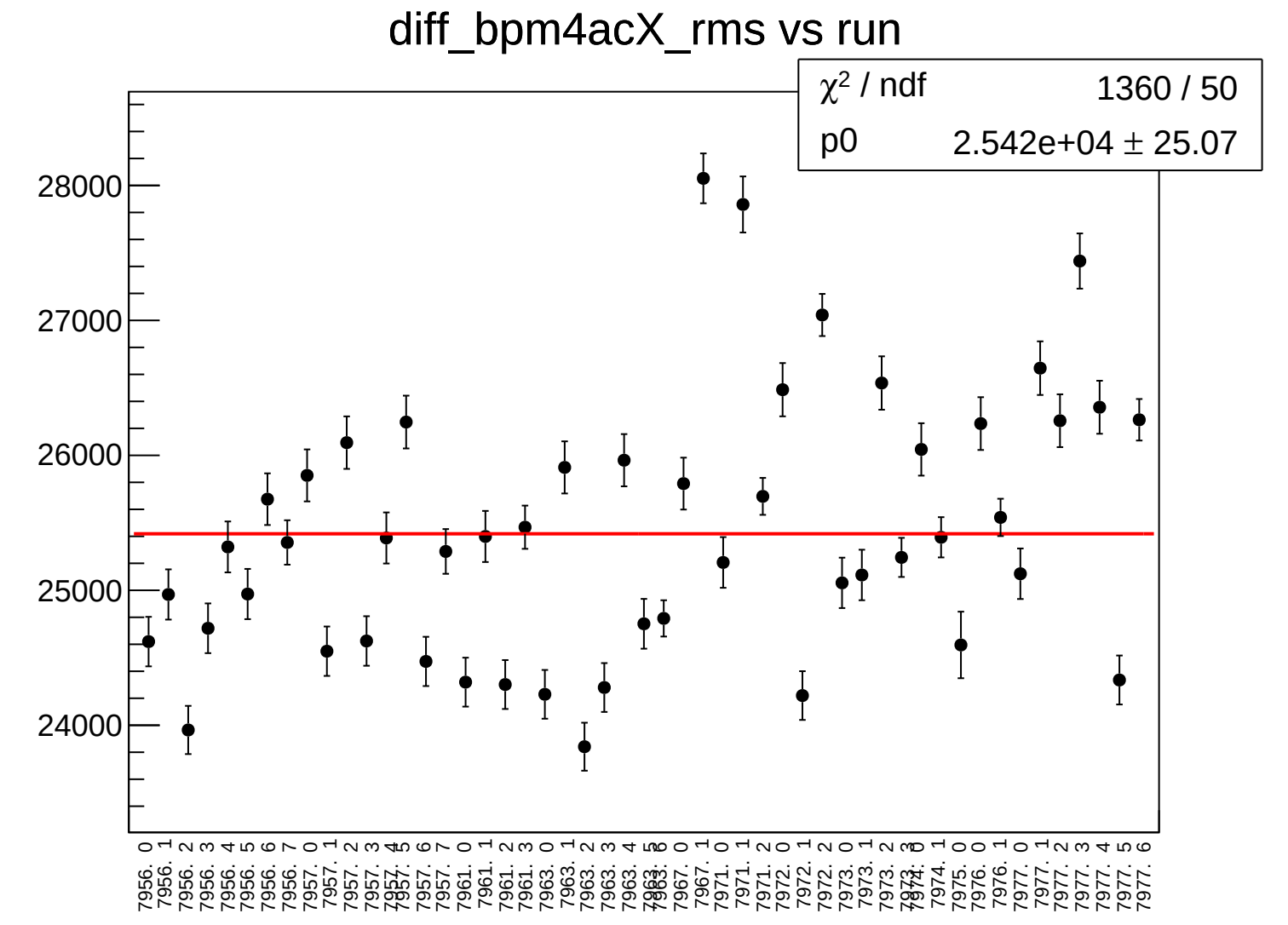
7977. 5
7977. 6


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
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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
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7961. 2
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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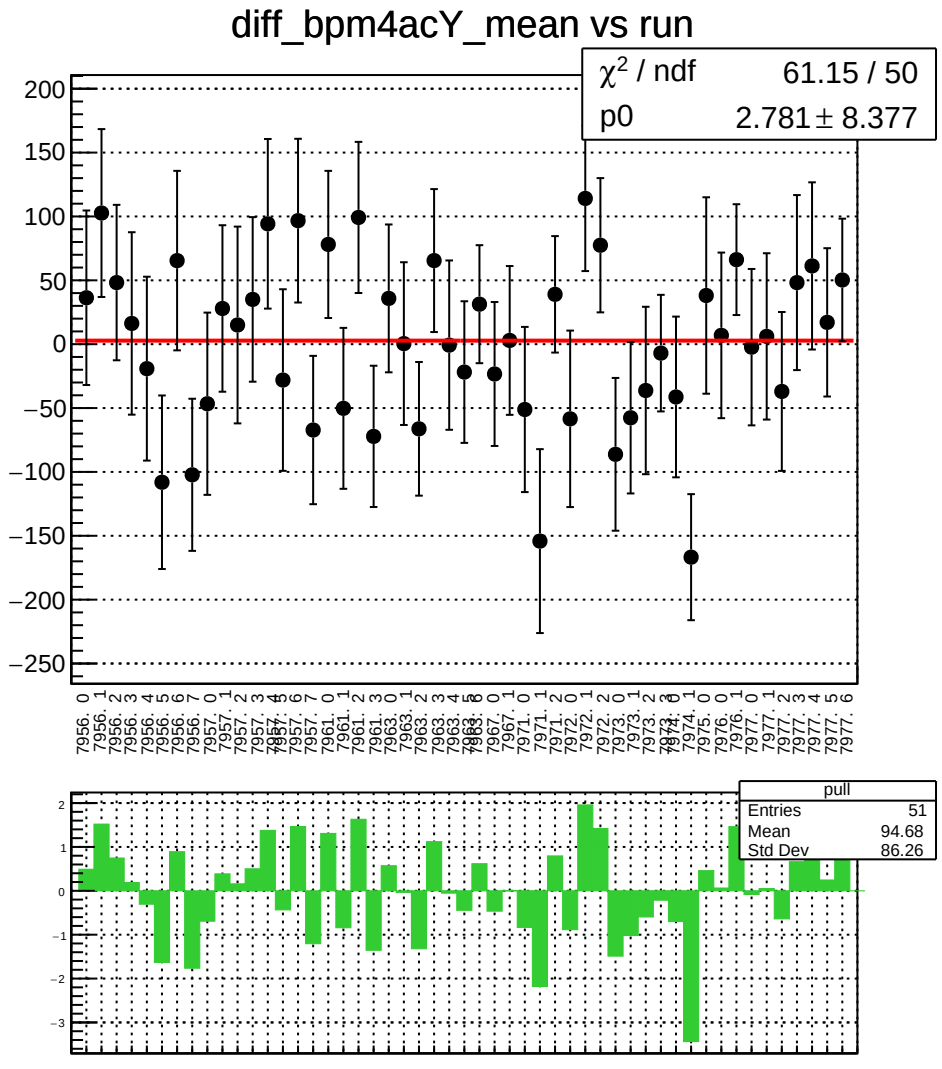
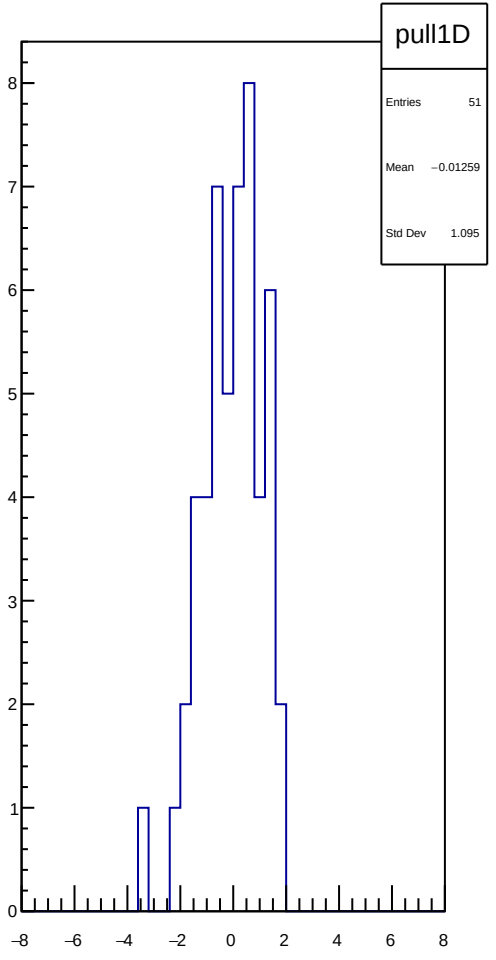
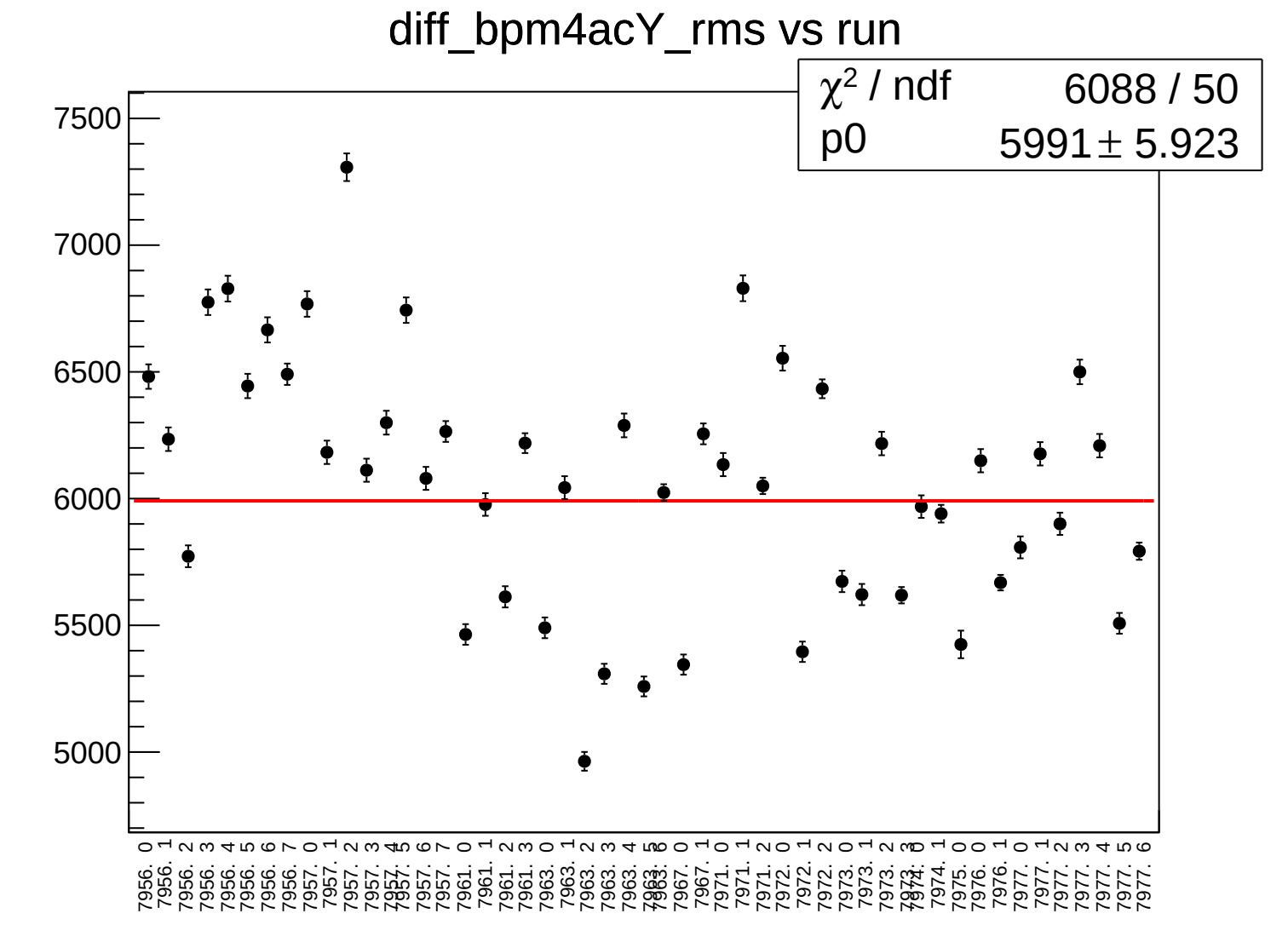
7977. 5
7977. 6


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
7957. 4
7957. 5
7957. 6
7957. 7
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7961. 2
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7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
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7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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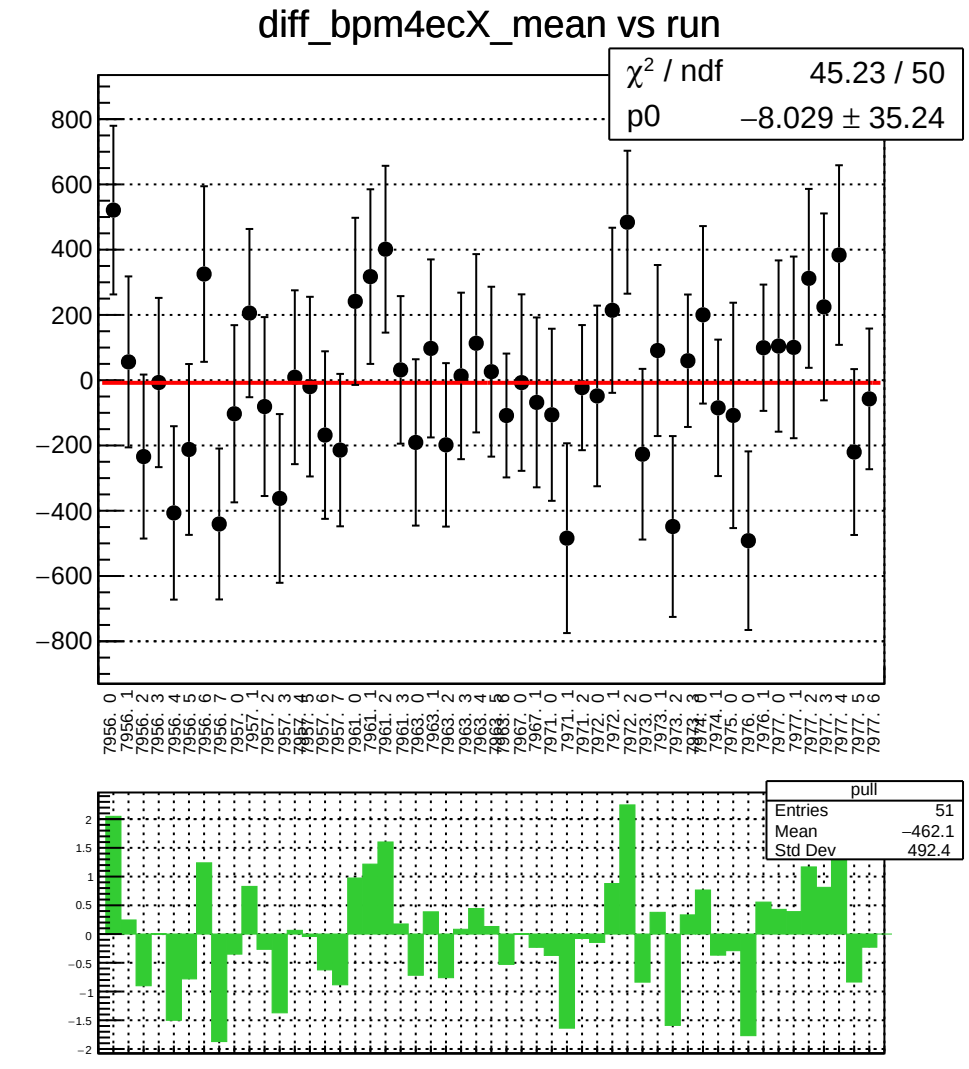
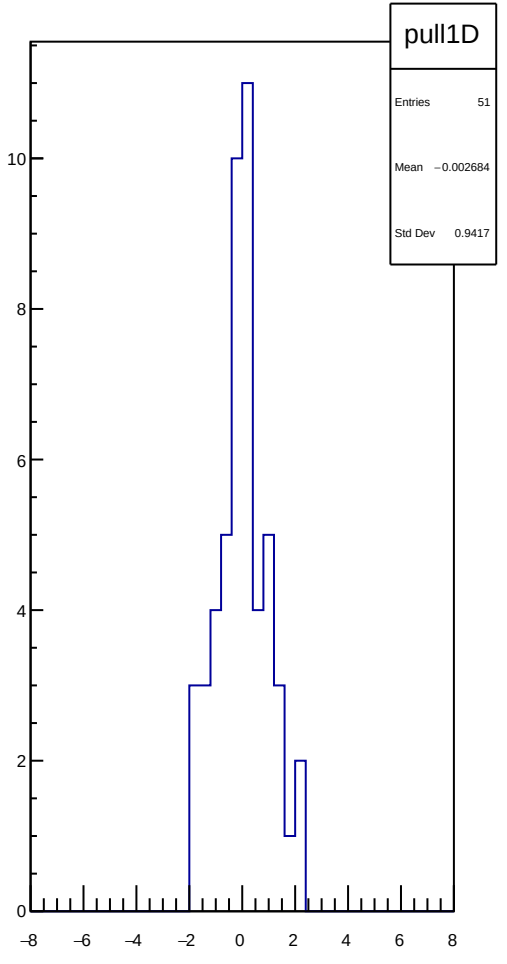
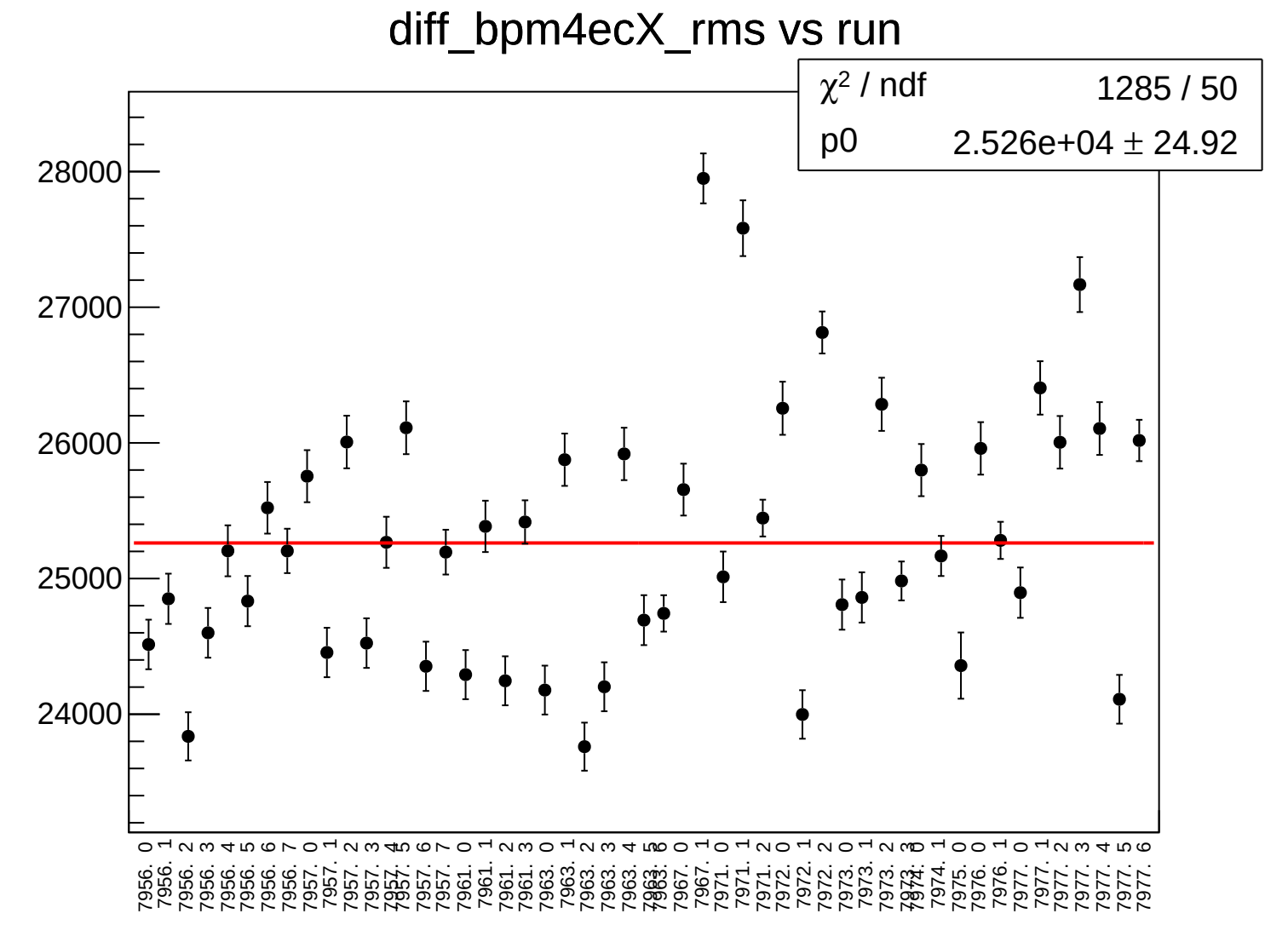
7977. 5
7977. 6


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
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7963. 4
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7967. 1
7971. 0
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7971. 2
7972. 0
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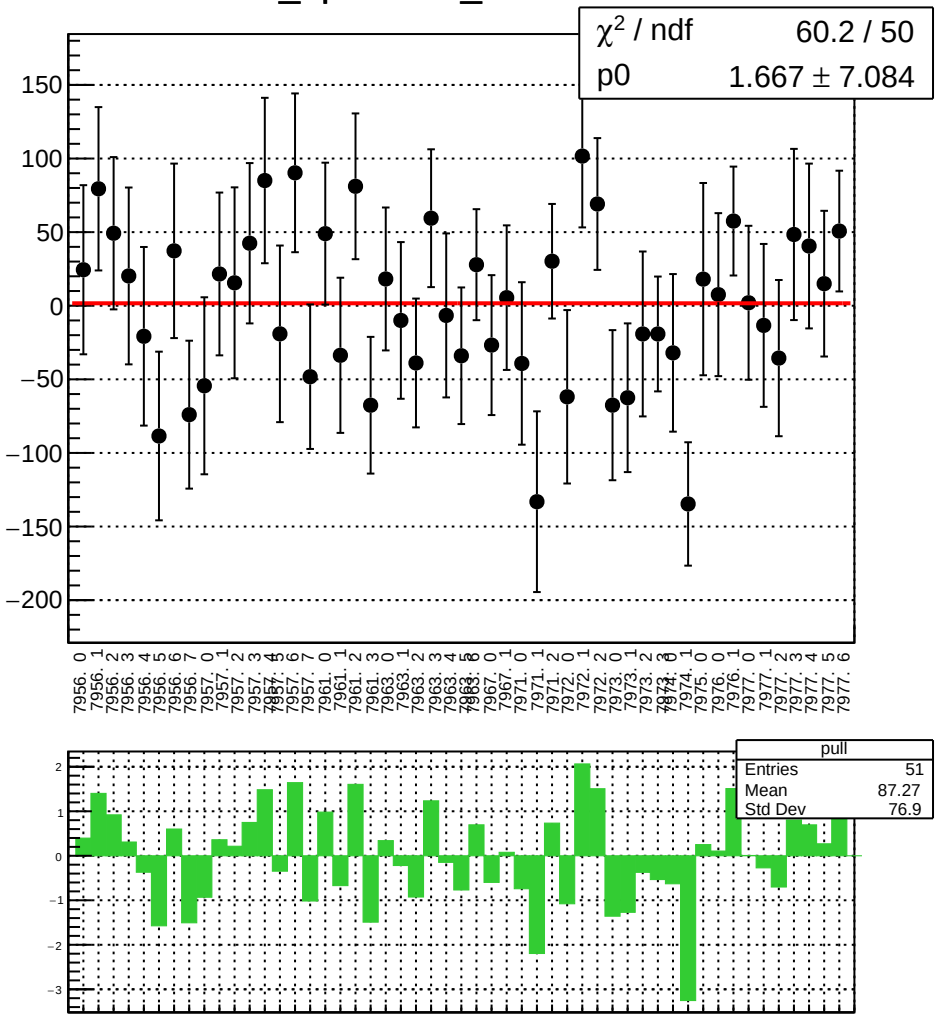
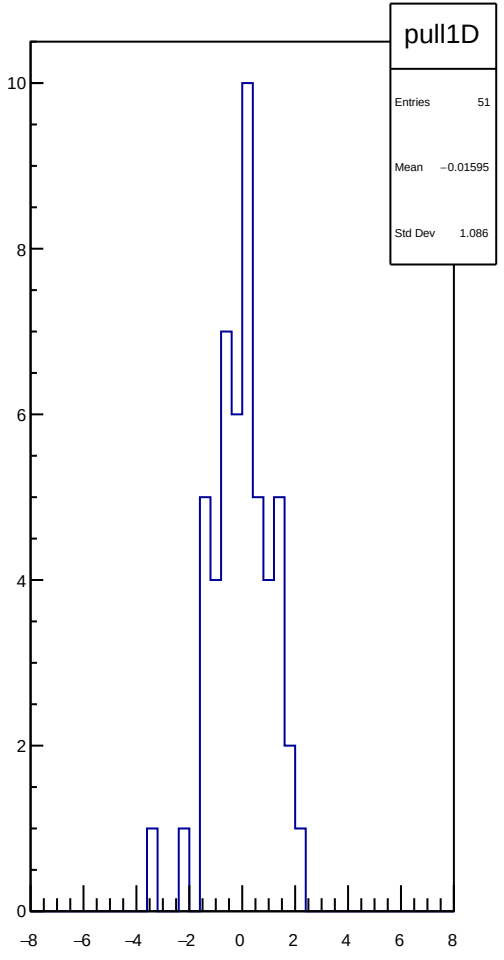
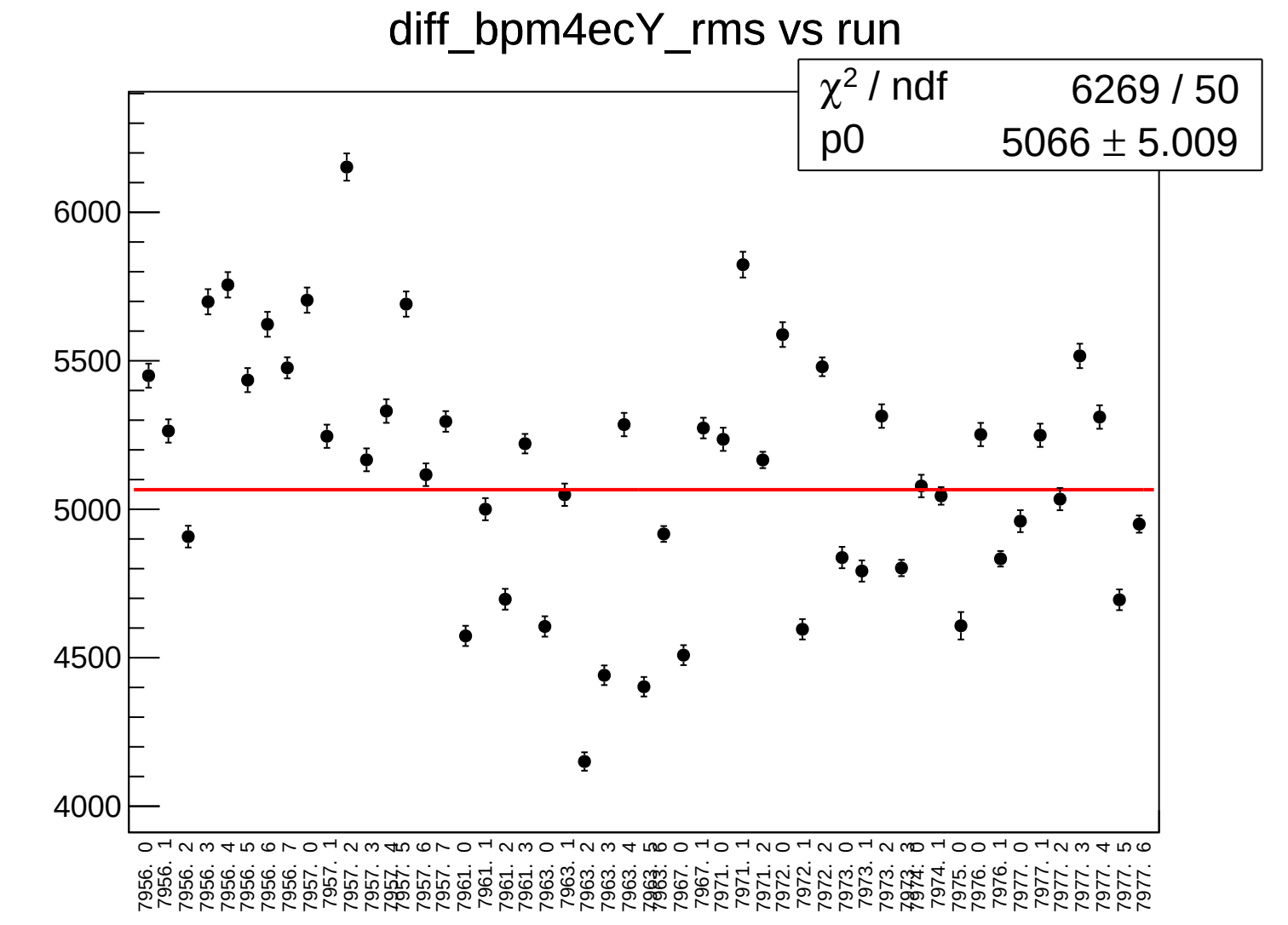
7977. 5
7977. 6


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
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7973. 2
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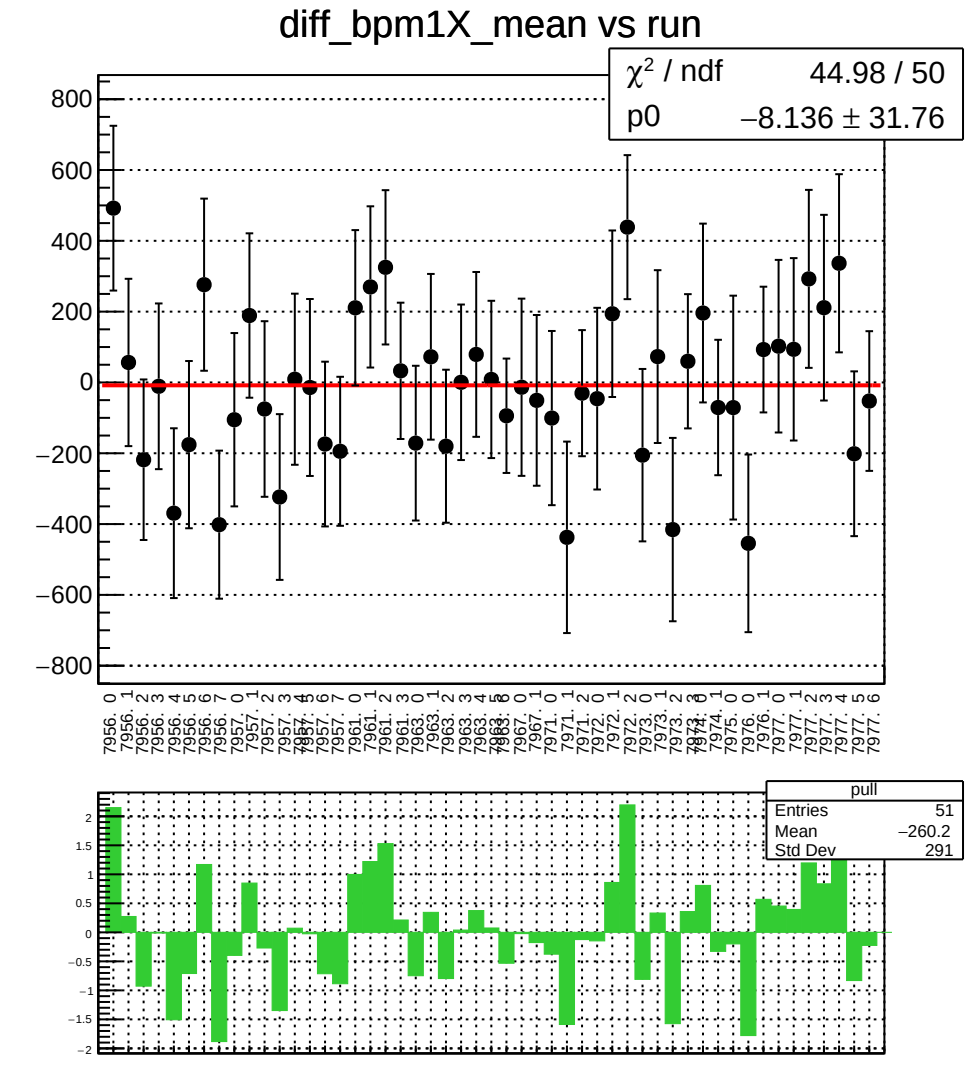
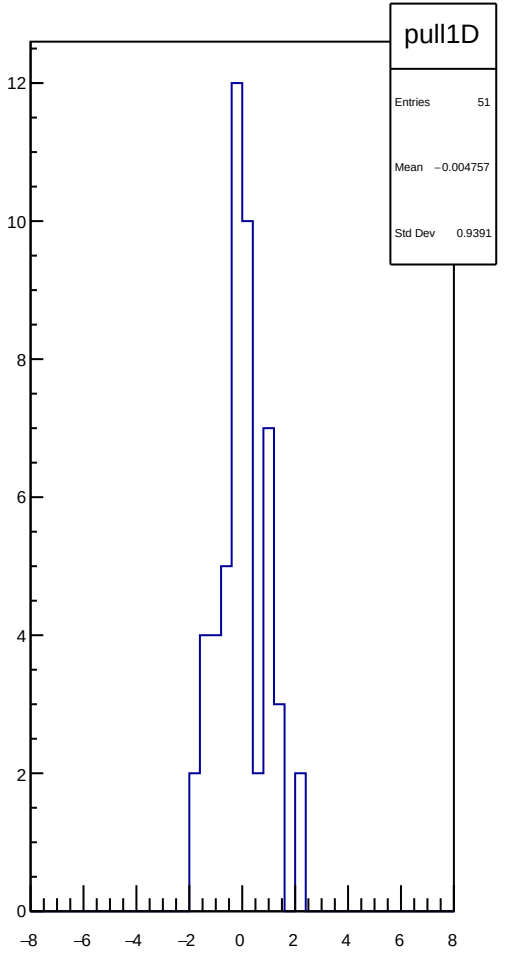
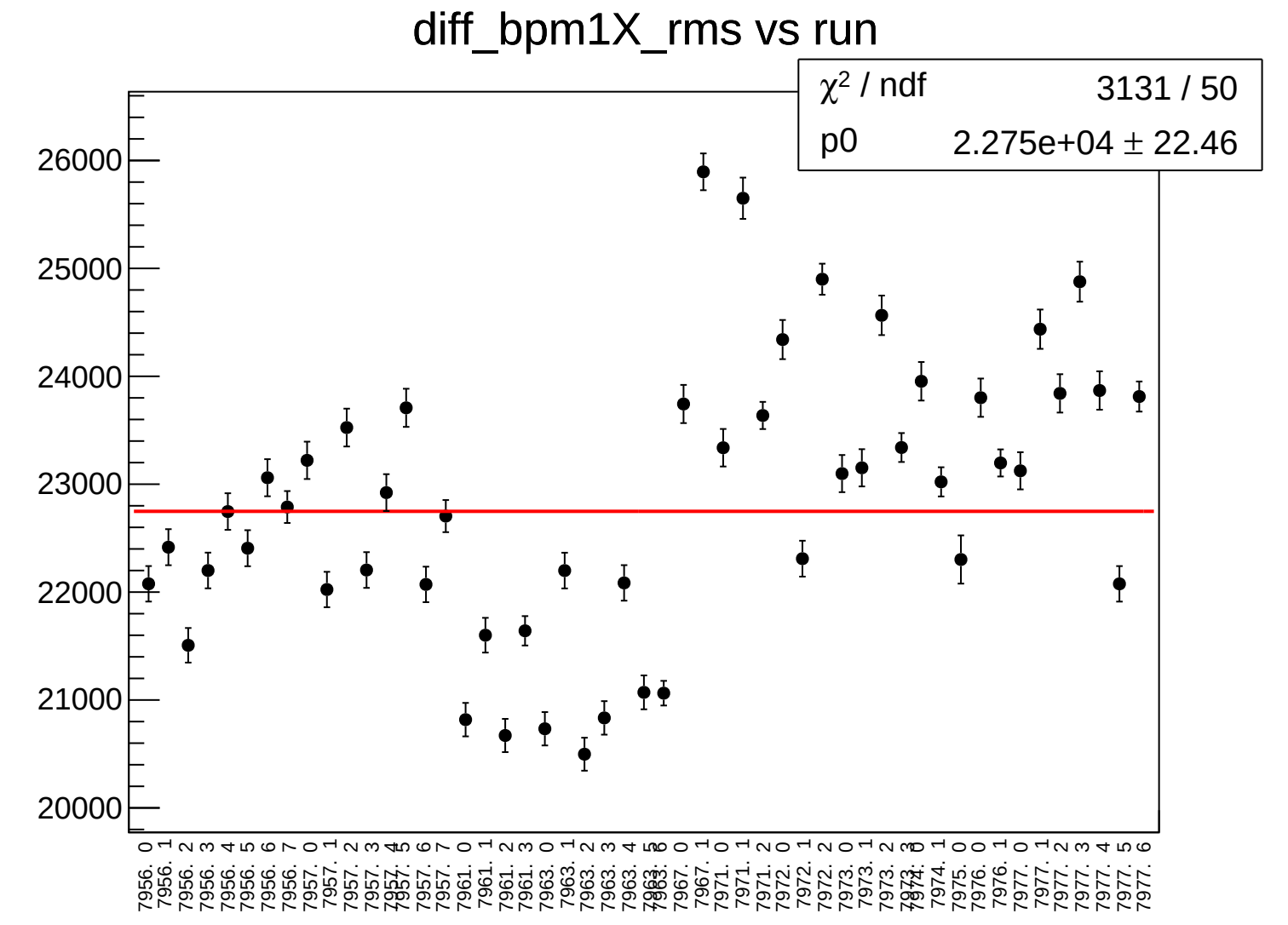
7977. 5
7977. 6


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
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7957. 2
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7957. 7
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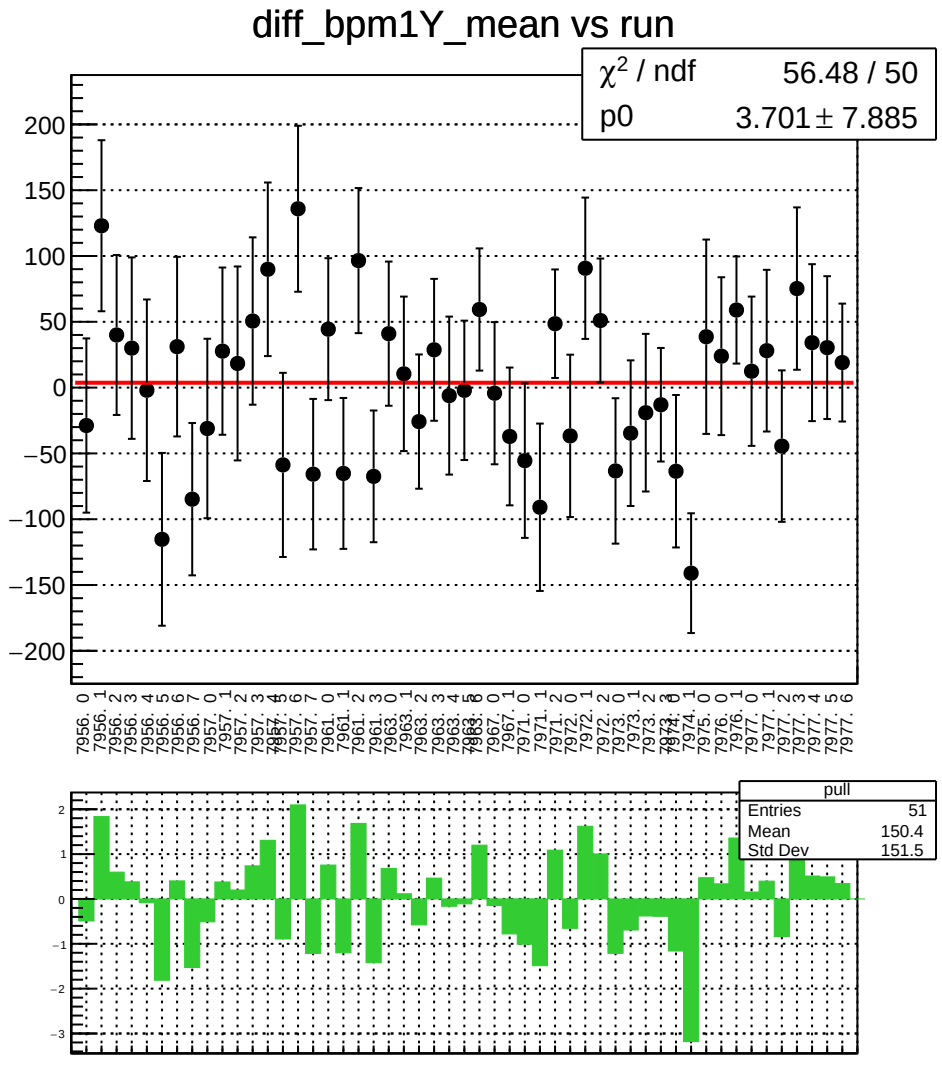
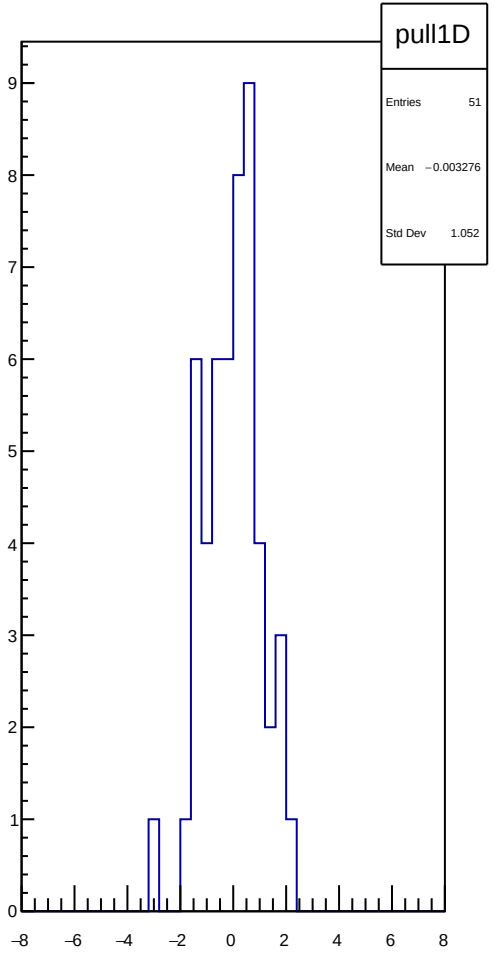
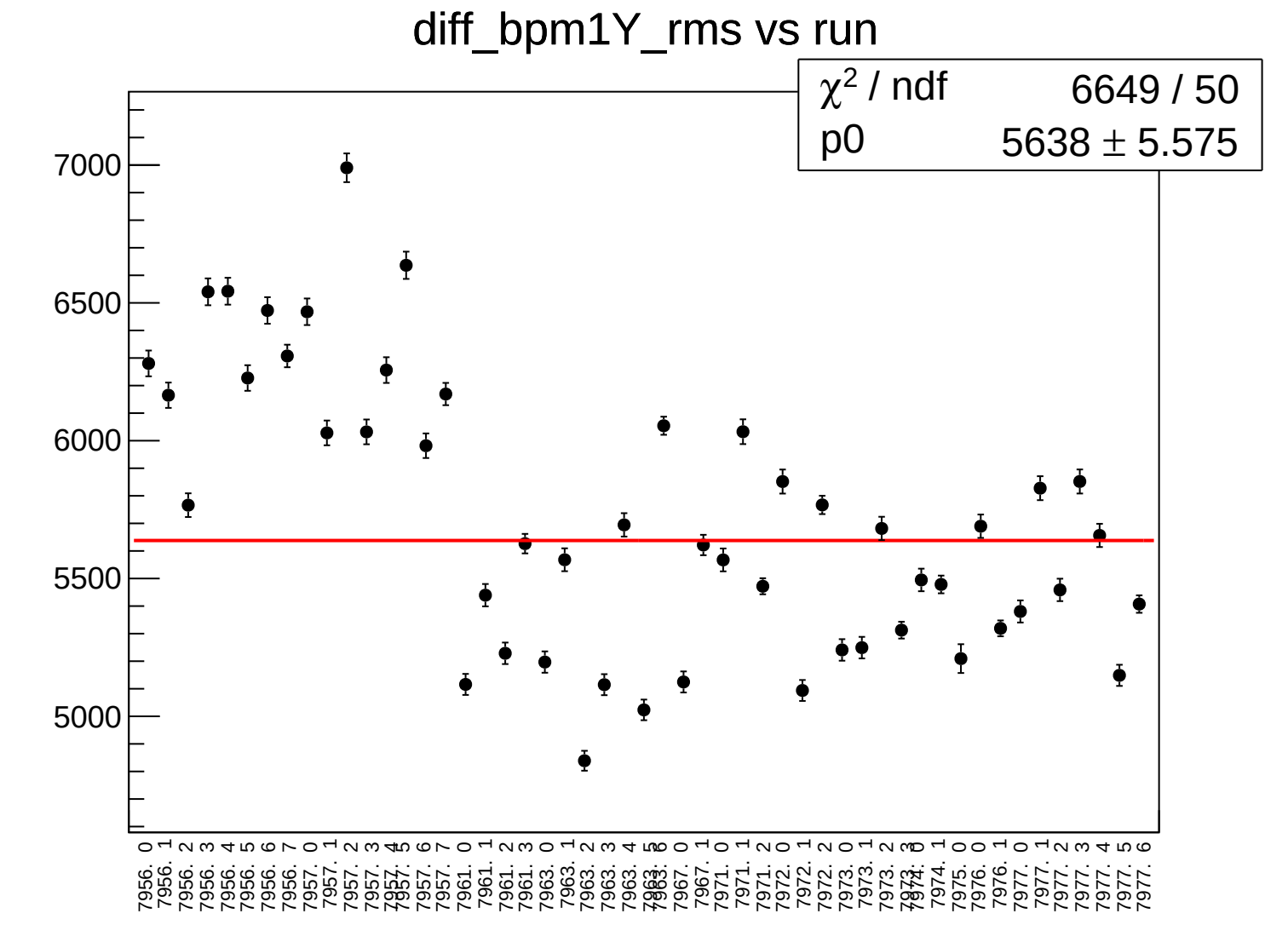
7977. 6


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
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6500
6000
5500
5000
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7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
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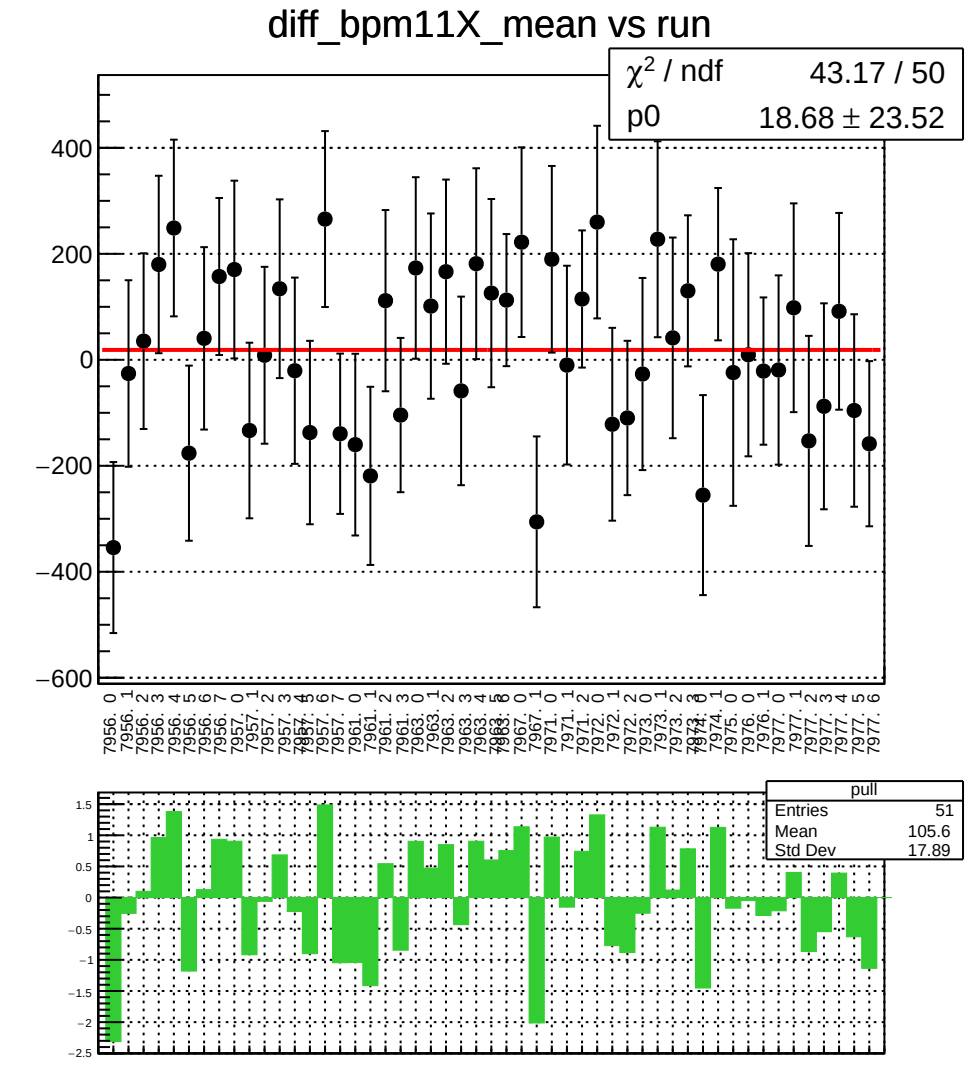
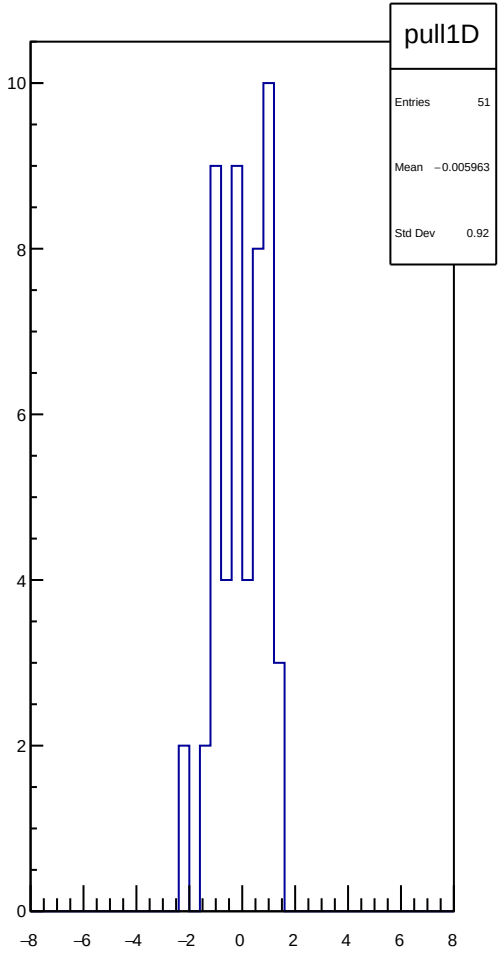
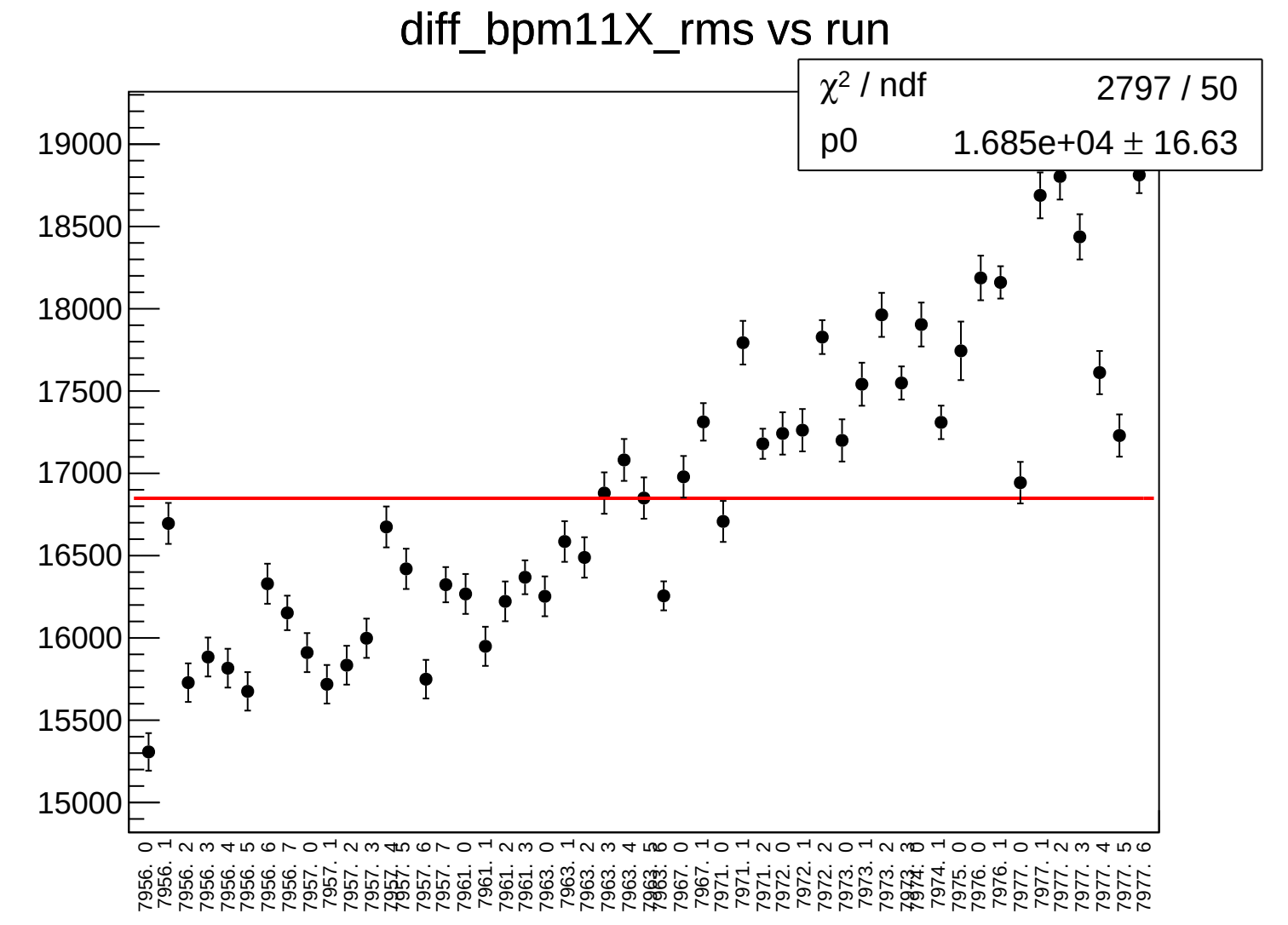
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


diff_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
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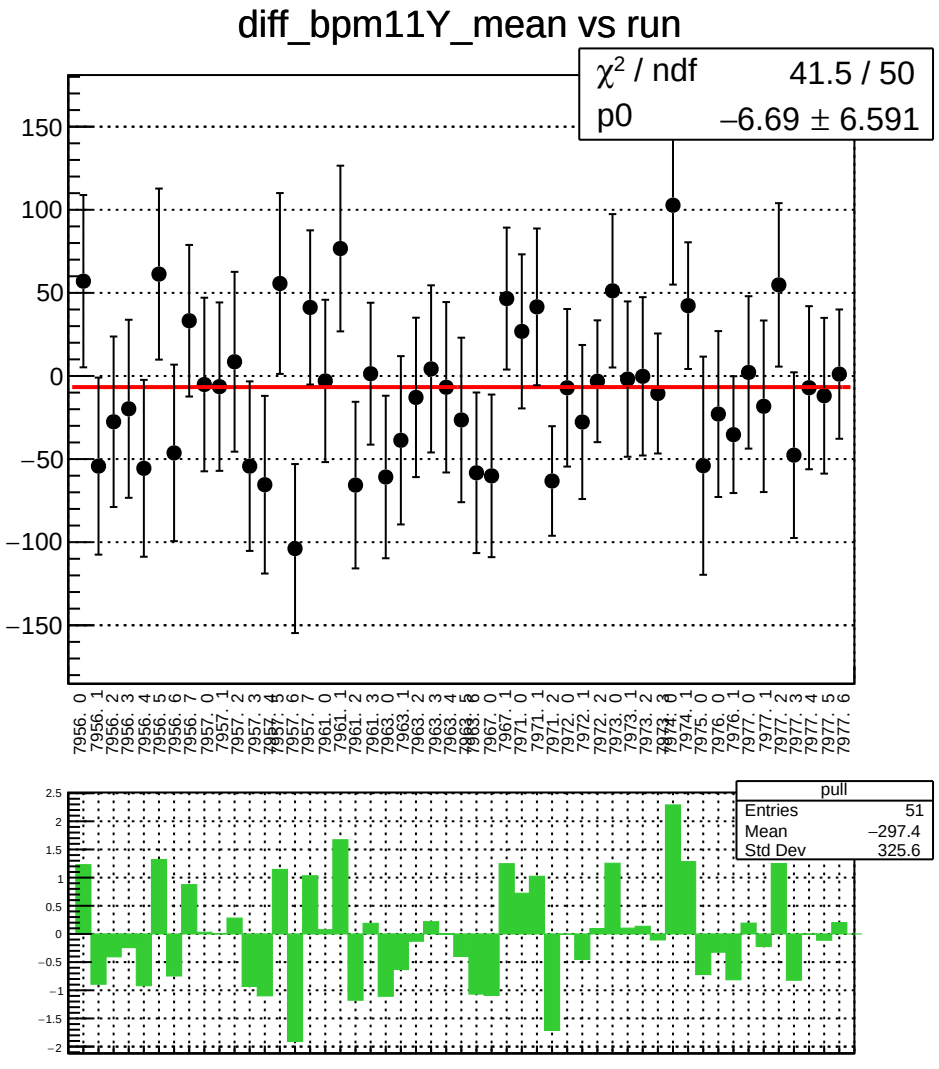
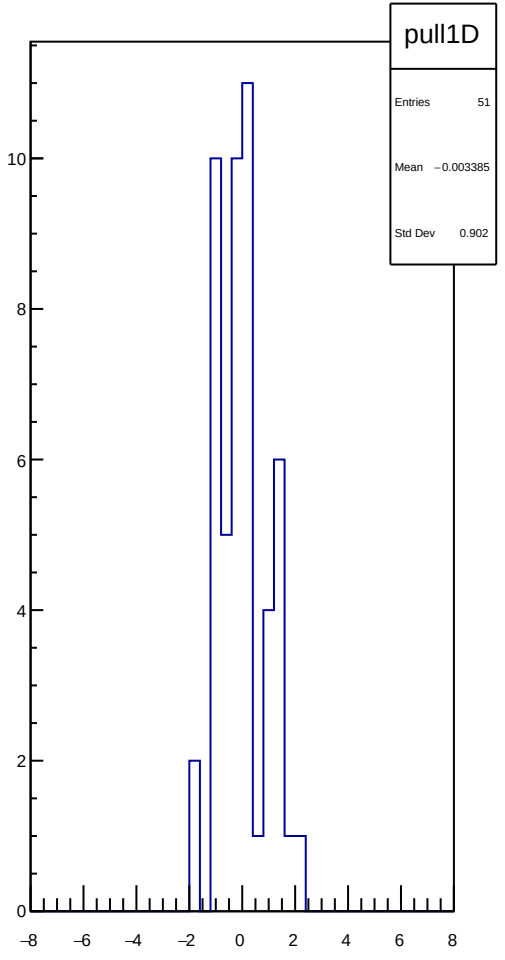
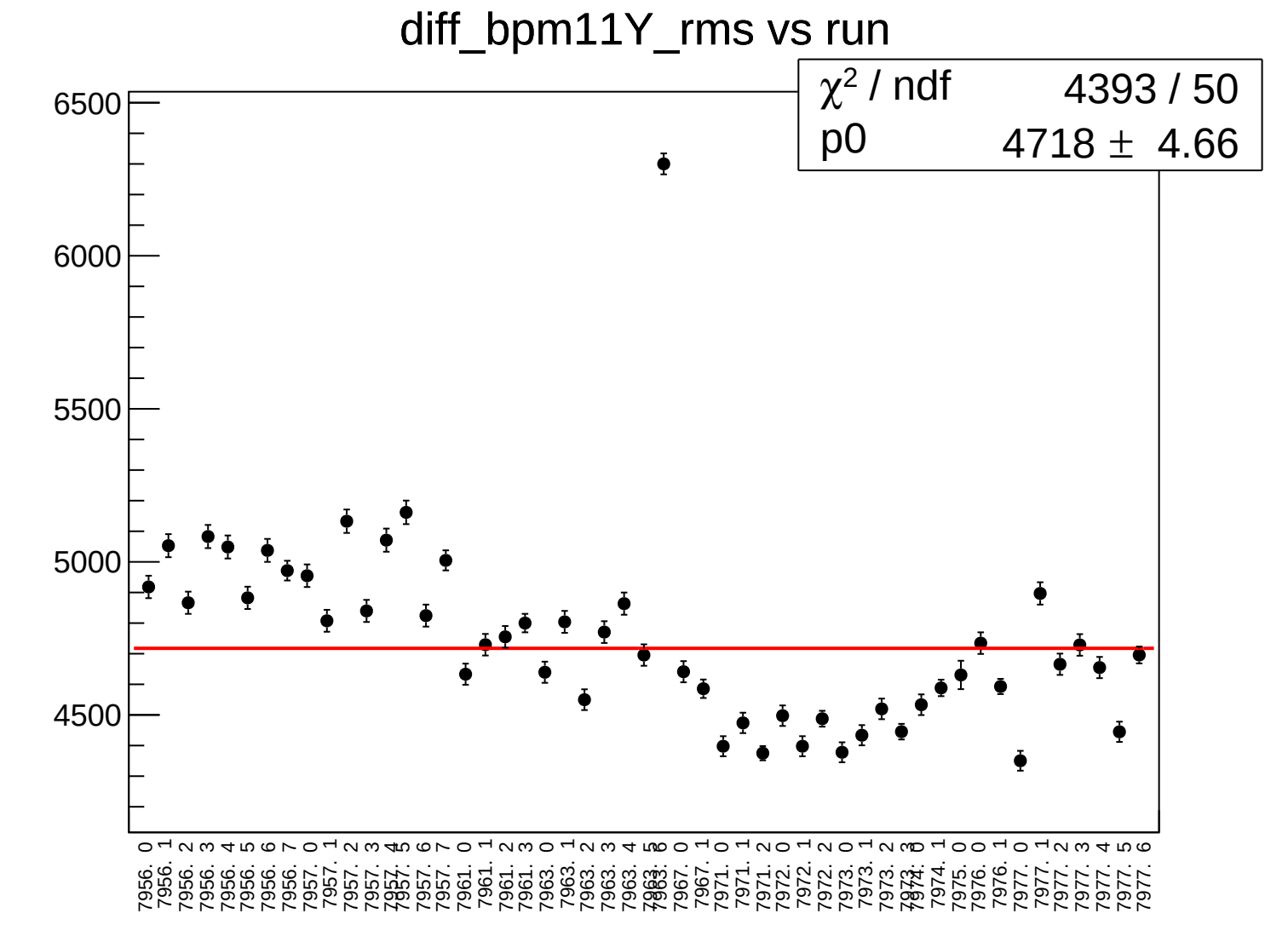
7977. 5
7977. 6


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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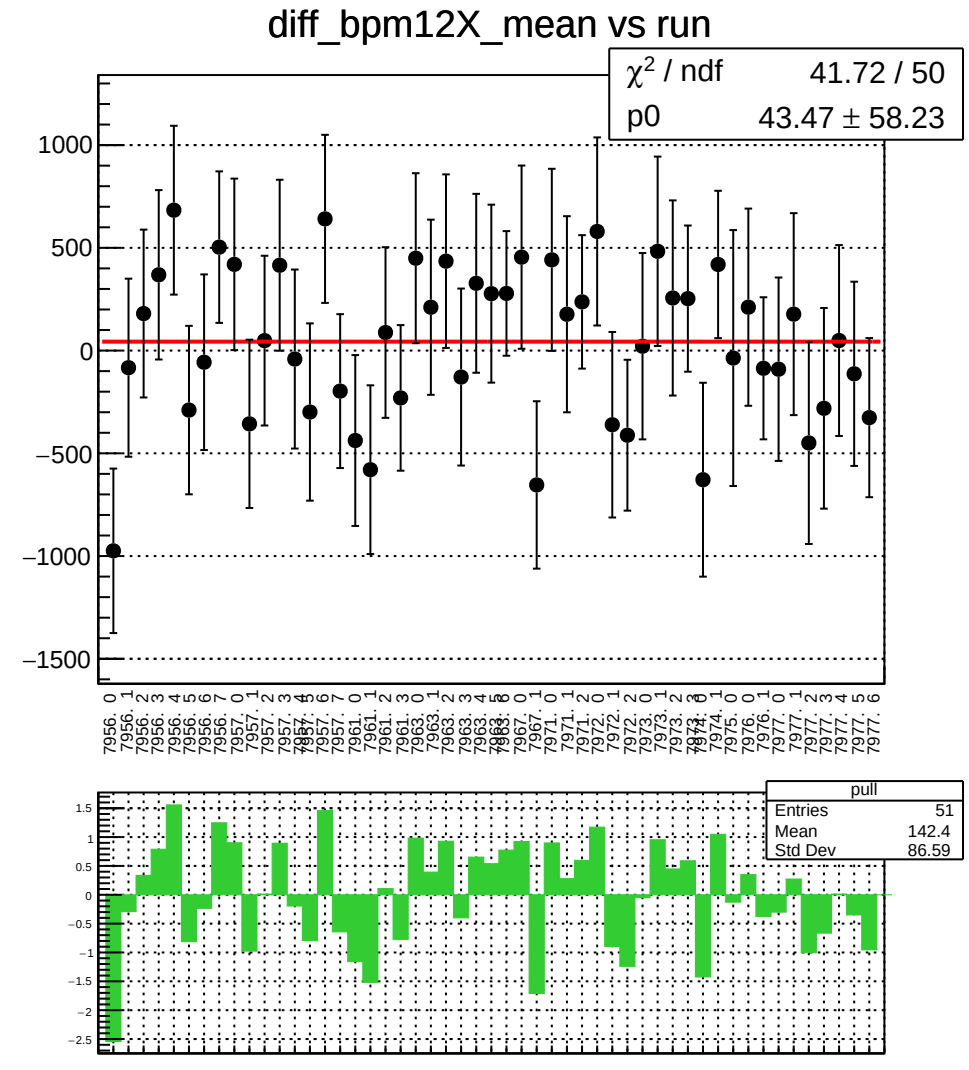
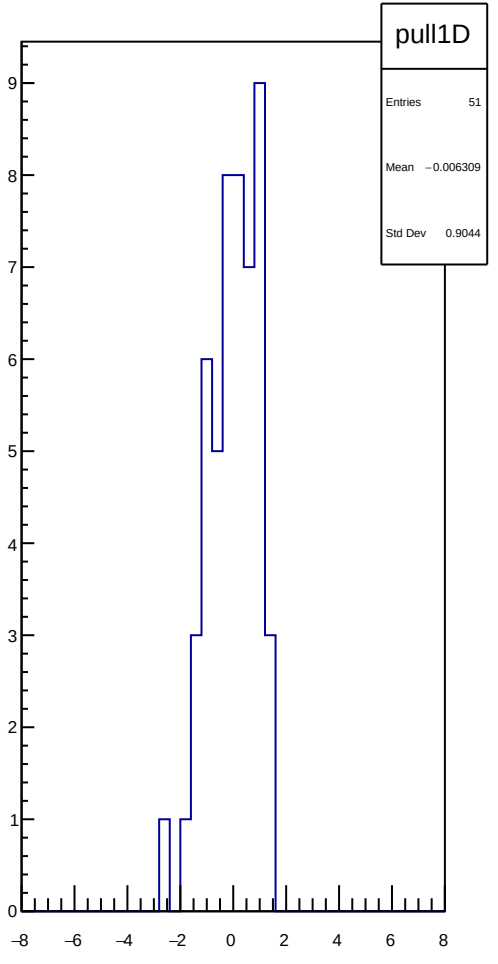
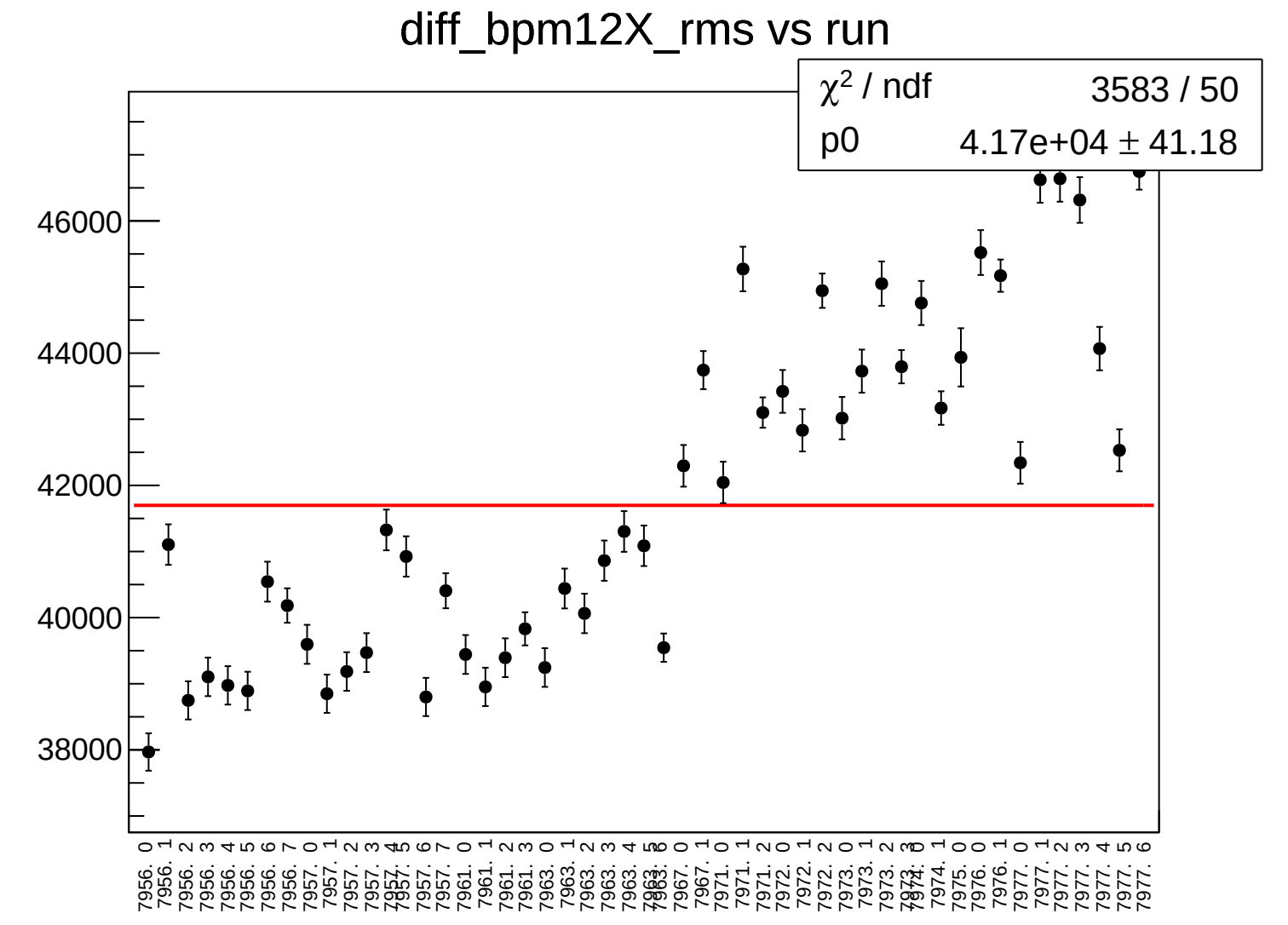
7977. 5
7977. 6


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
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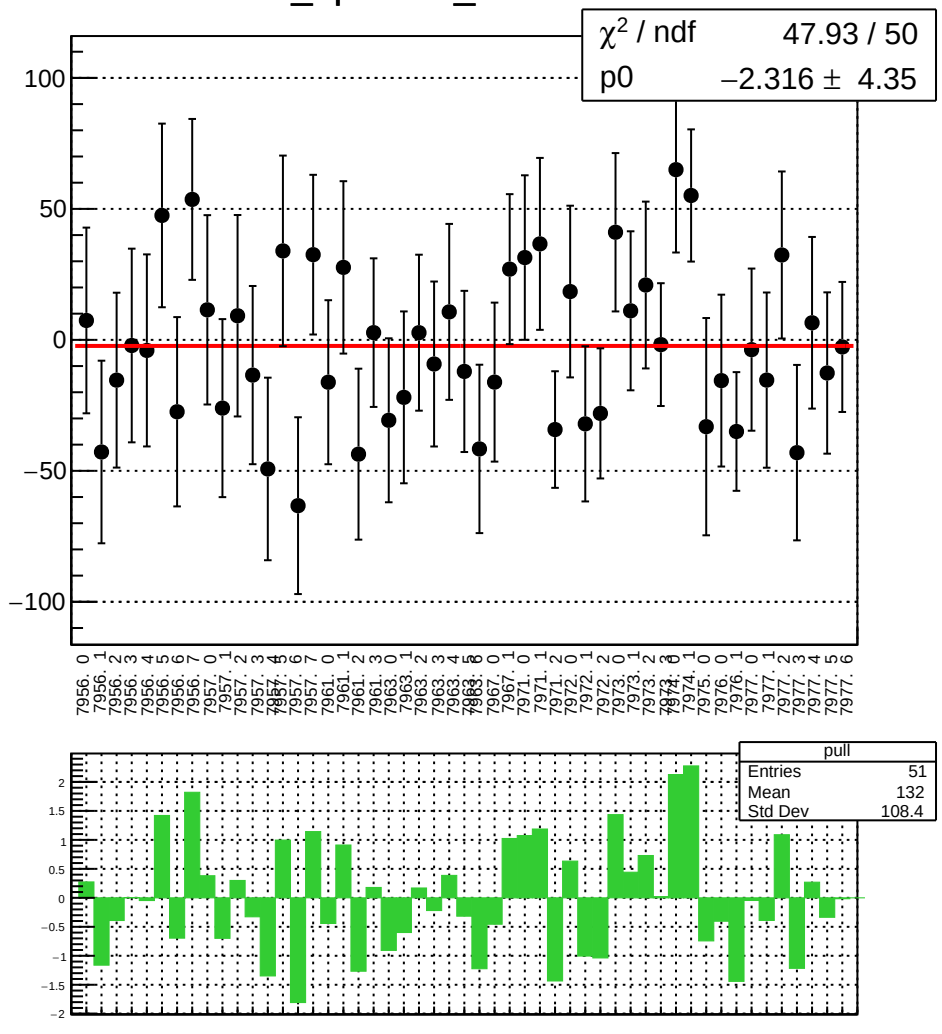
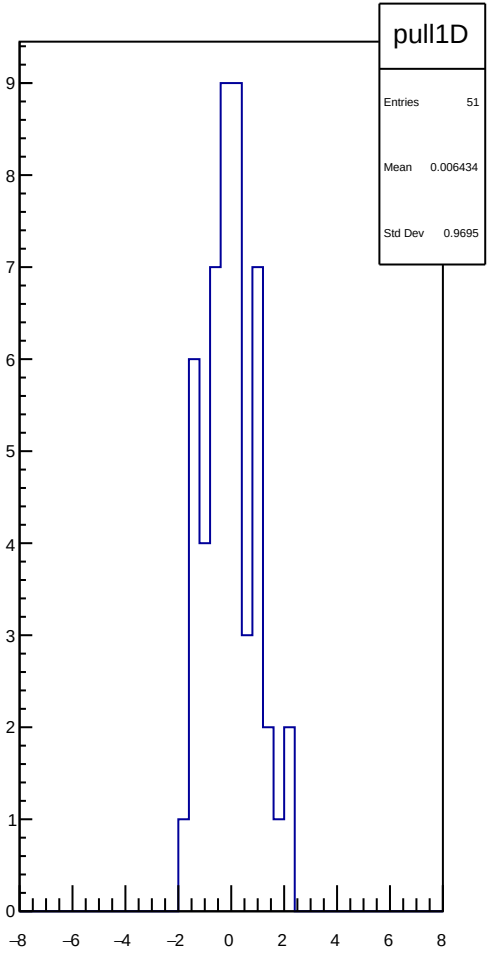
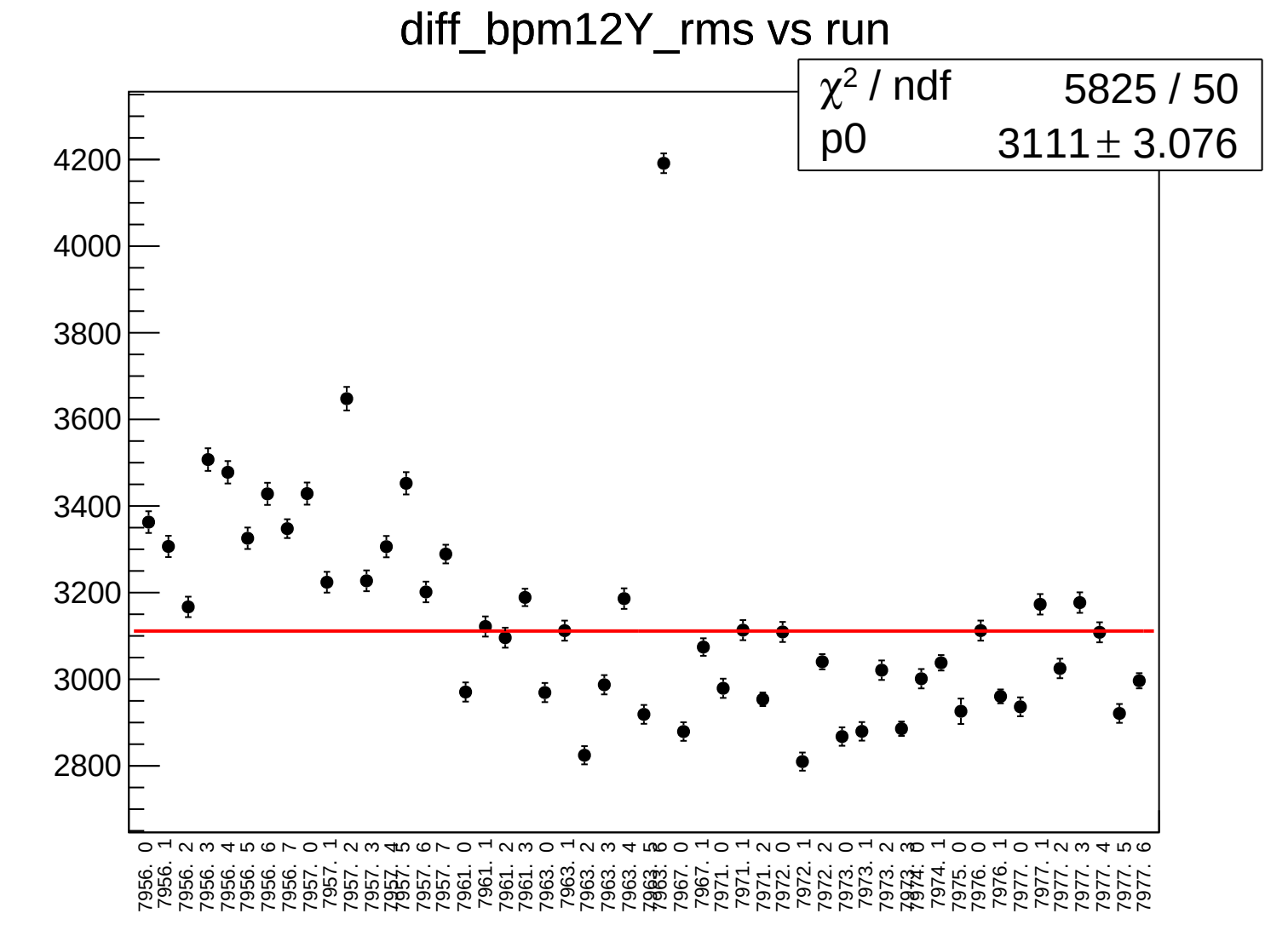
7977. 5
7977. 6


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
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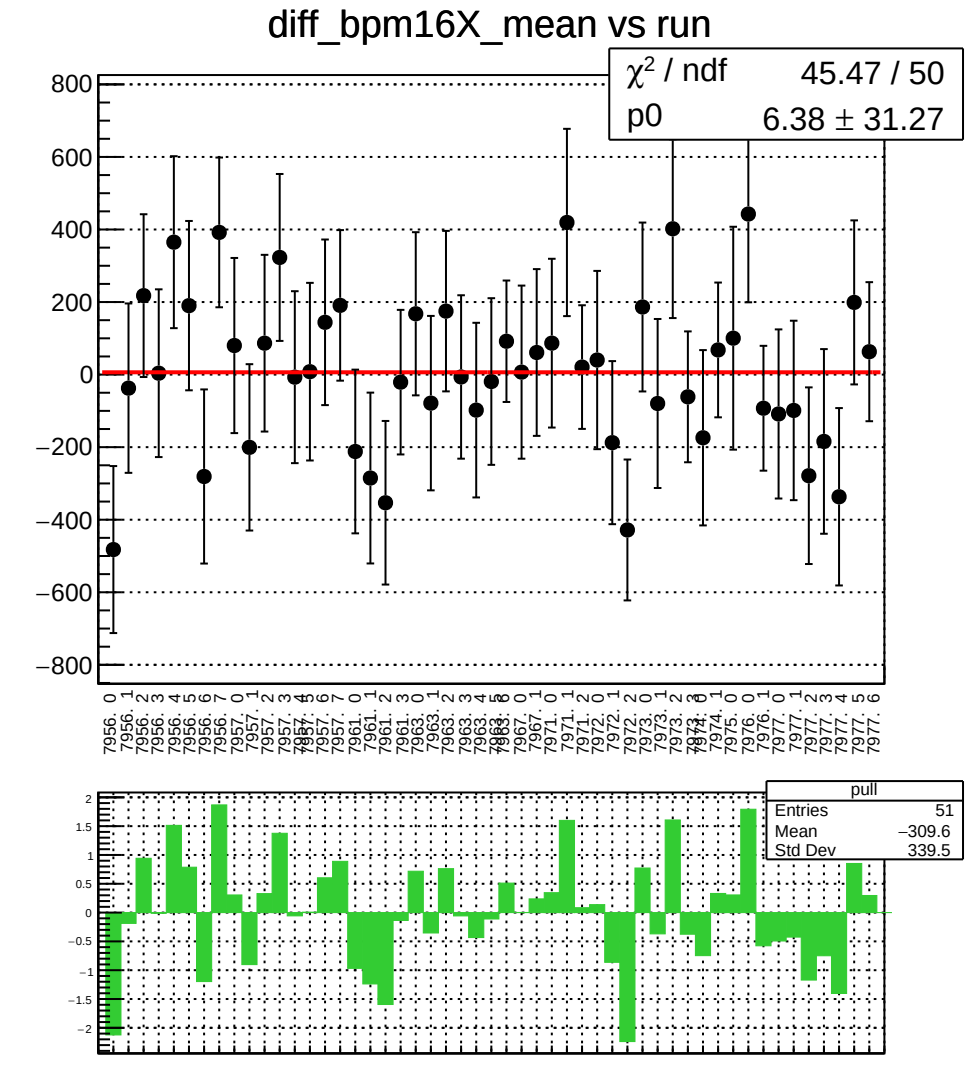
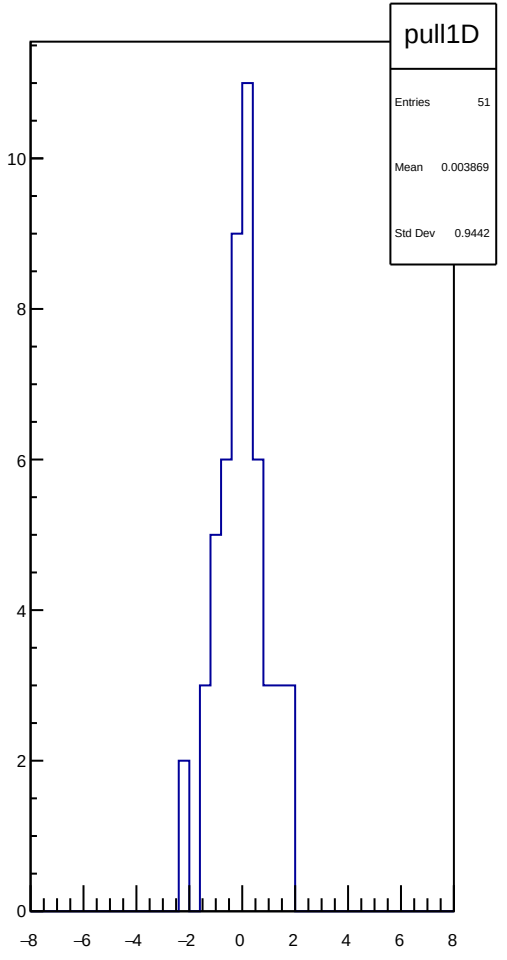
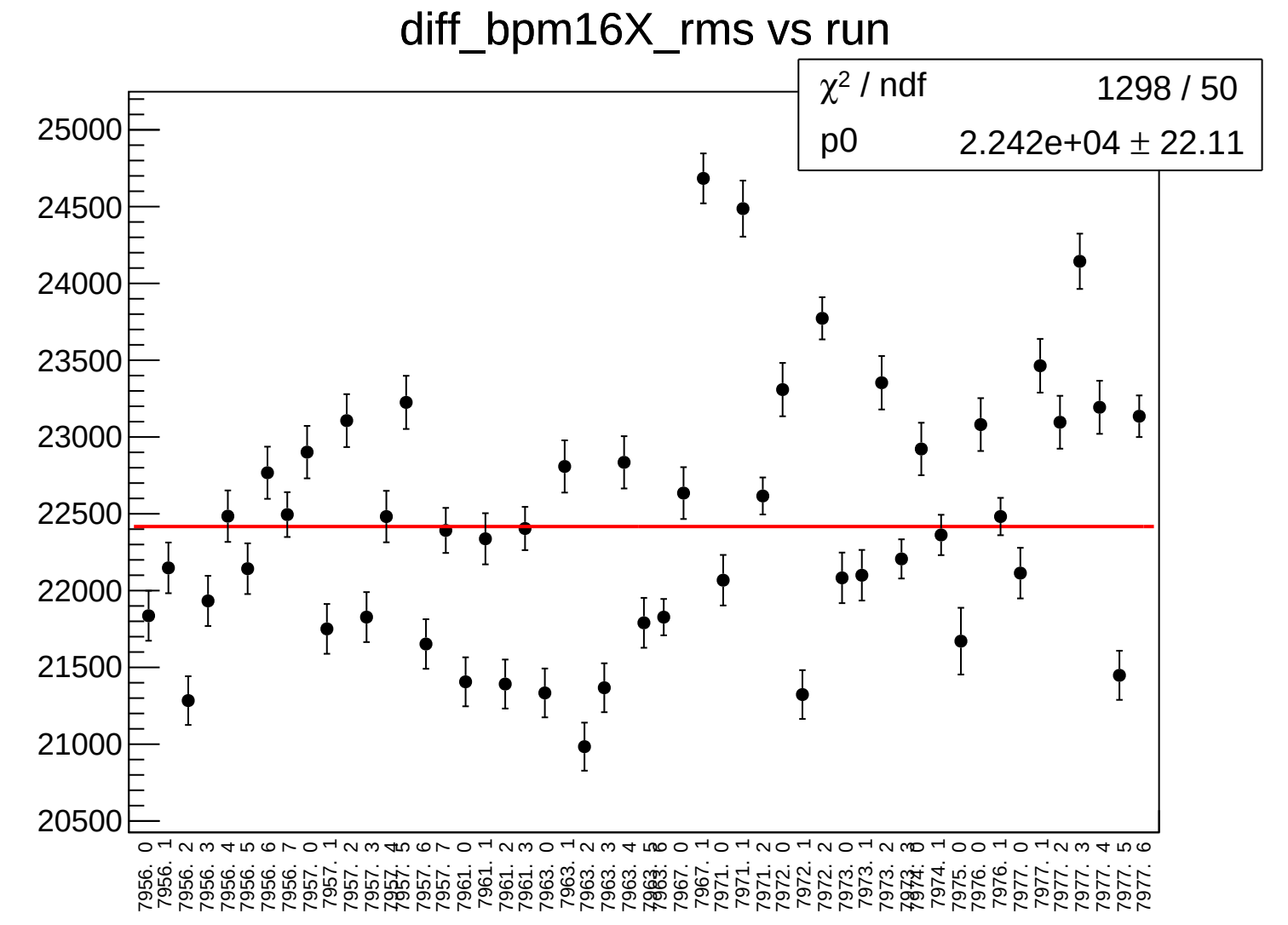
7977. 5
7977. 6


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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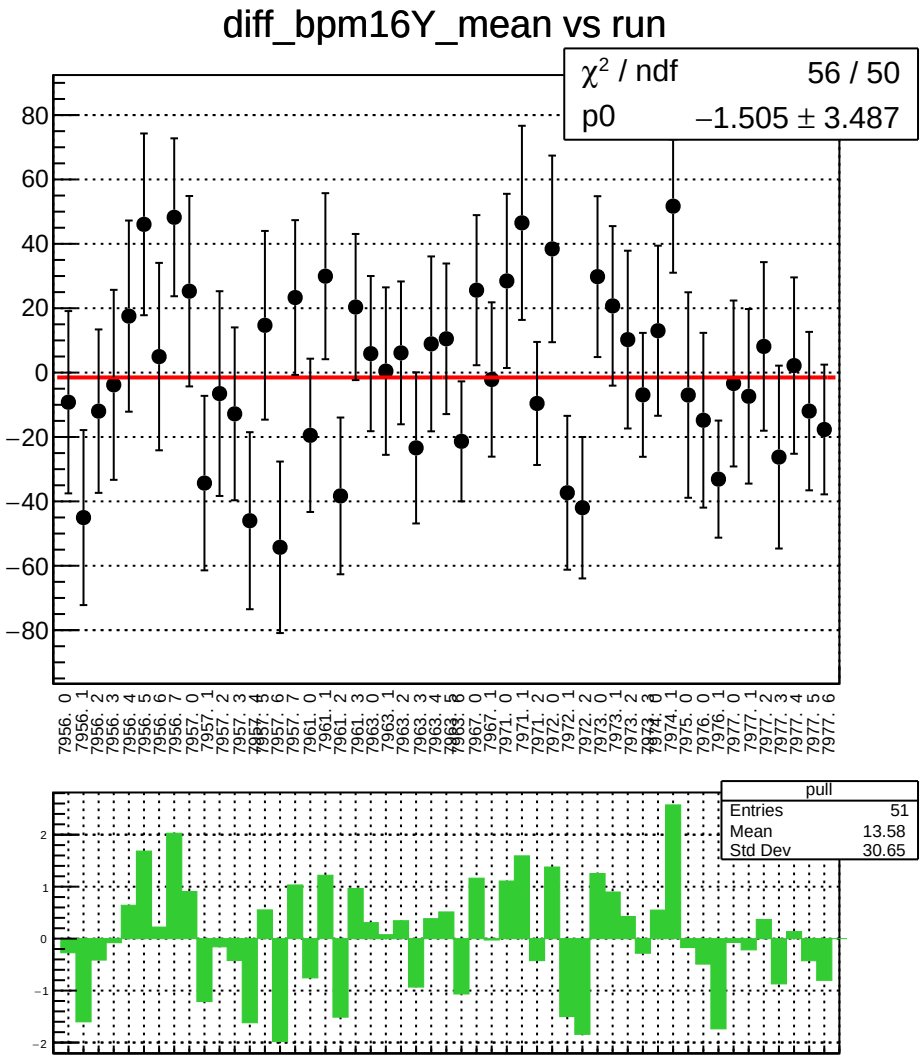
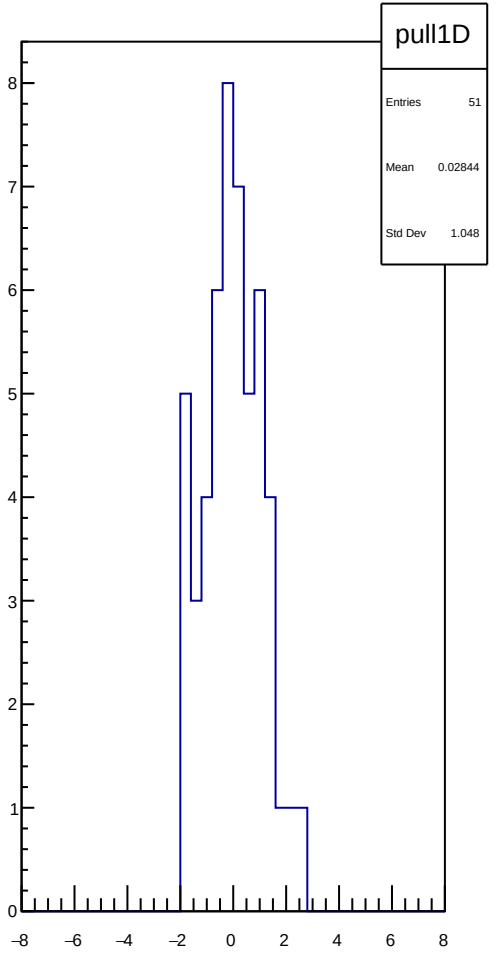
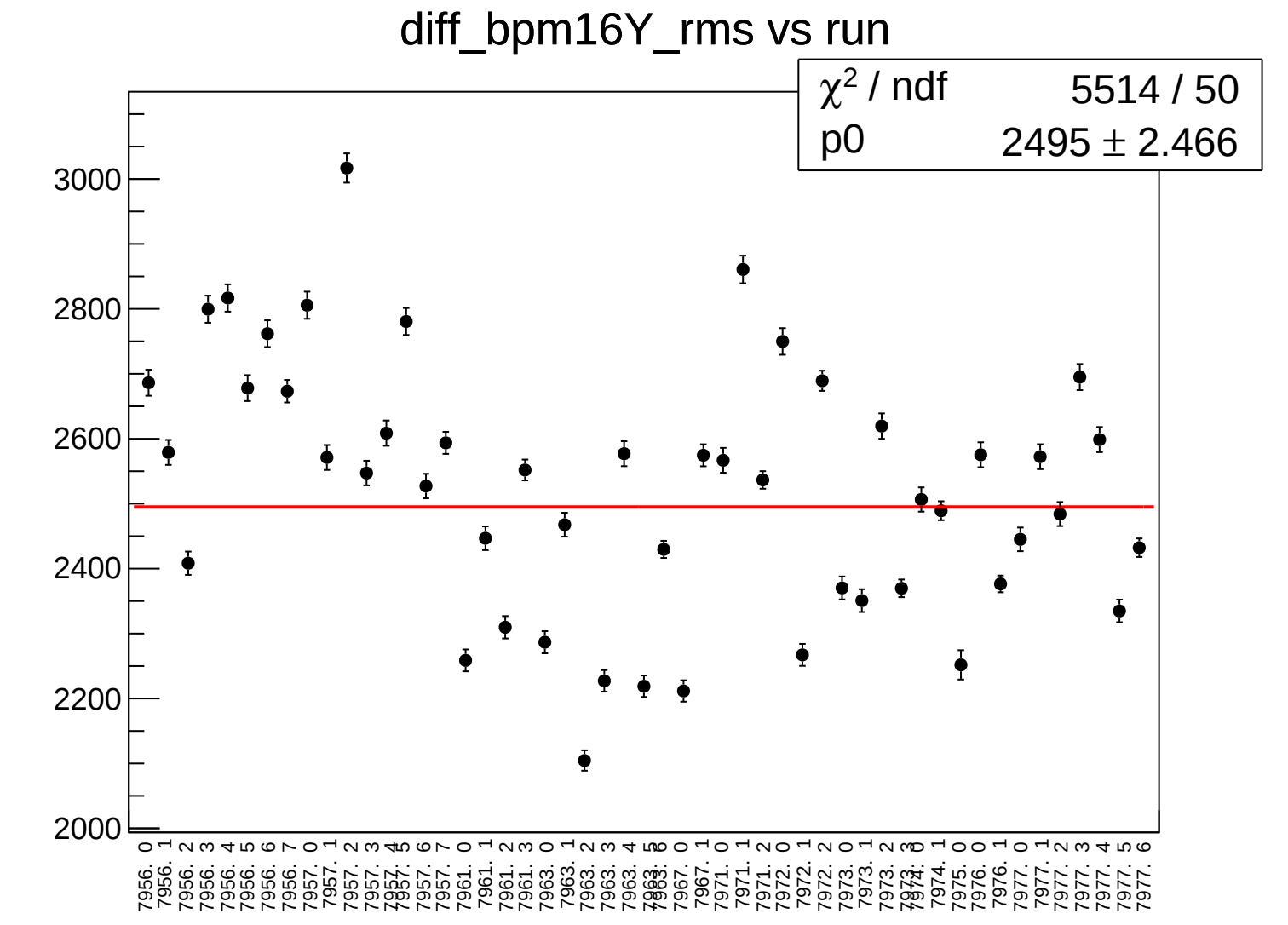
7977. 5
7977. 6


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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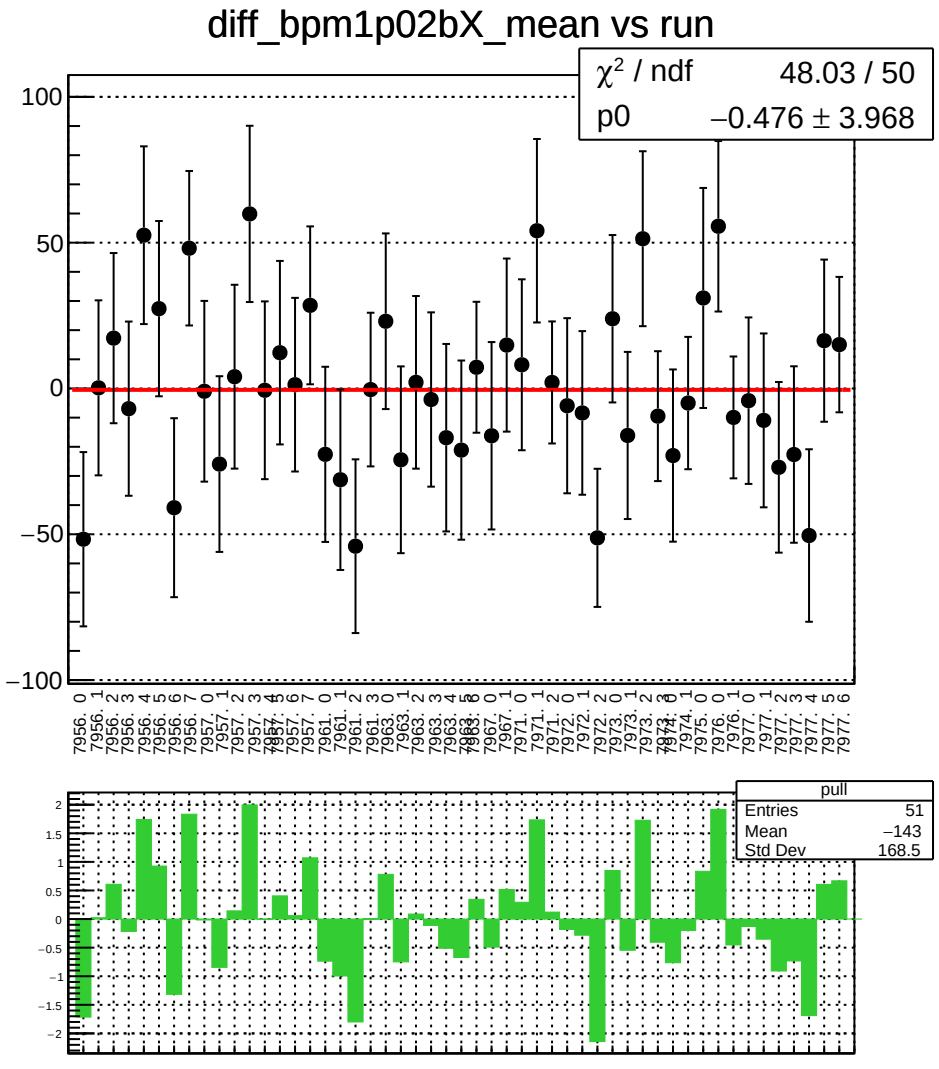
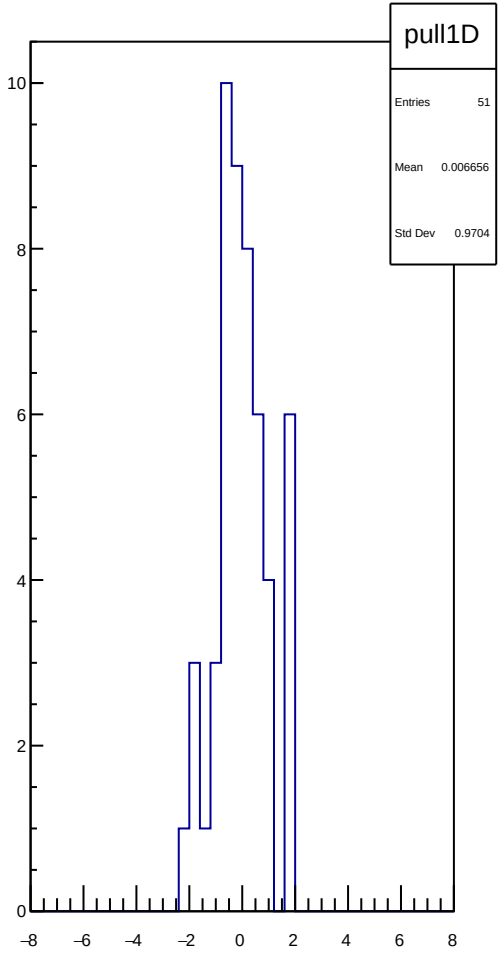
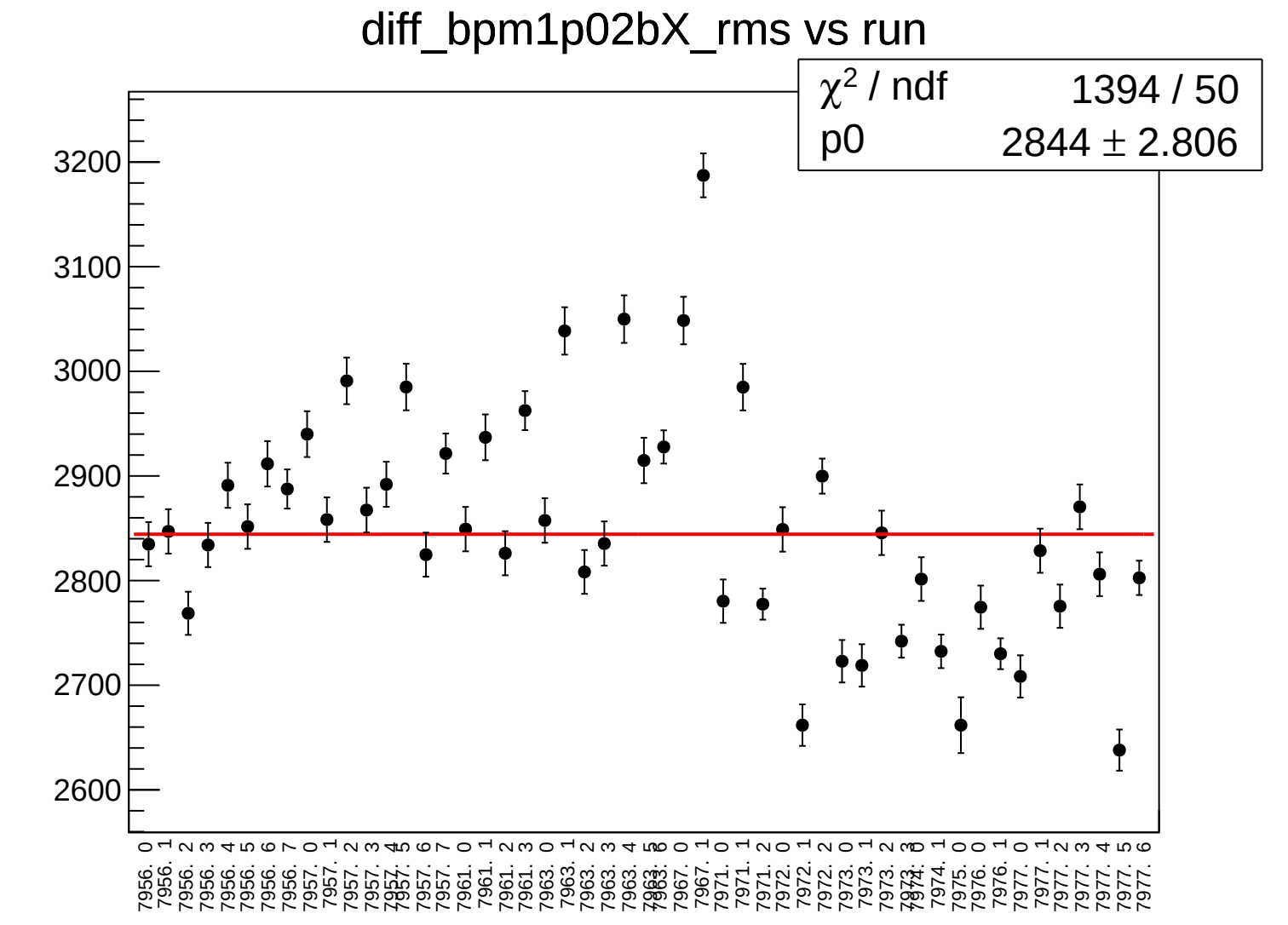
7977. 5
7977. 6


diff_bpm1p02bX_mean vs run
χ² / ndf 48.03 / 50
p0 −0.476 ± 3.968
pull
Entries 51
Mean −143
Std Dev 168.5


pull1D
Entries 51
Mean 0.006656
Std Dev 0.9704


diff_bpm1p02bX_rms vs run
χ² / ndf 1394 / 50
p0 2844 ± 2.806
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. 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
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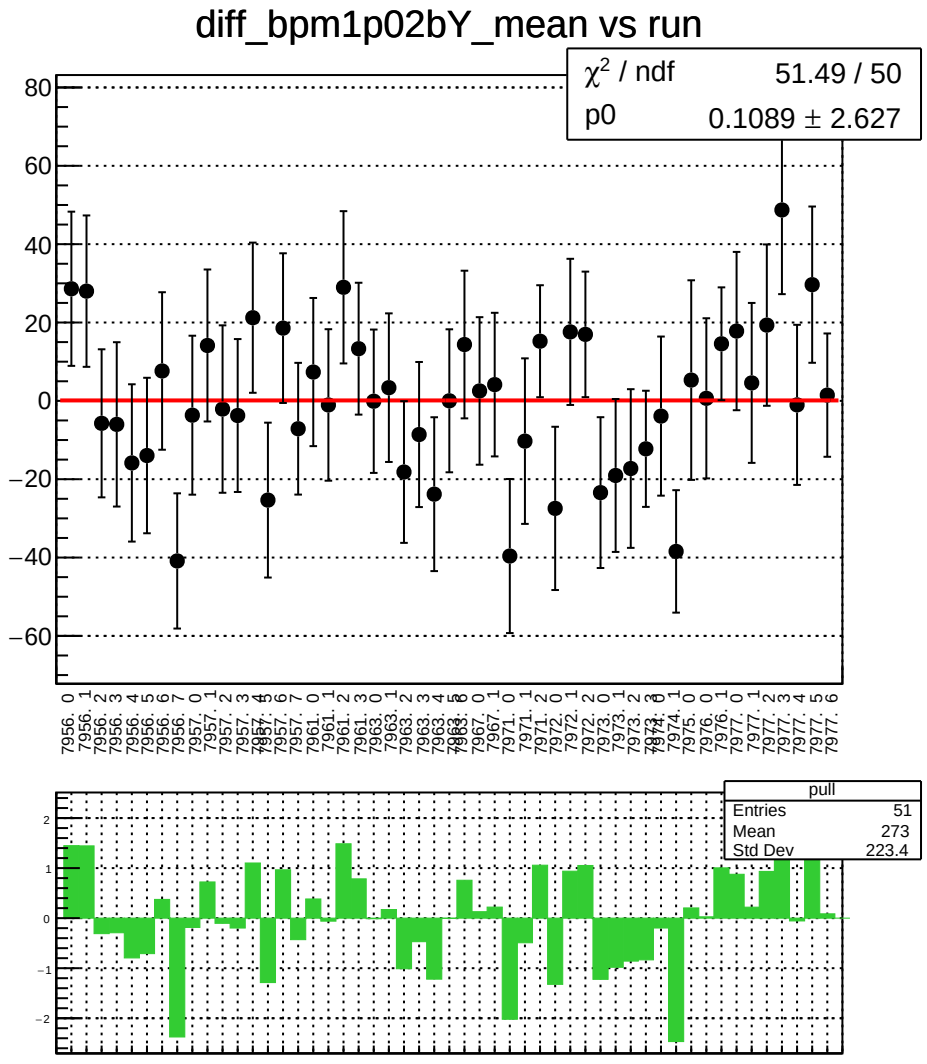
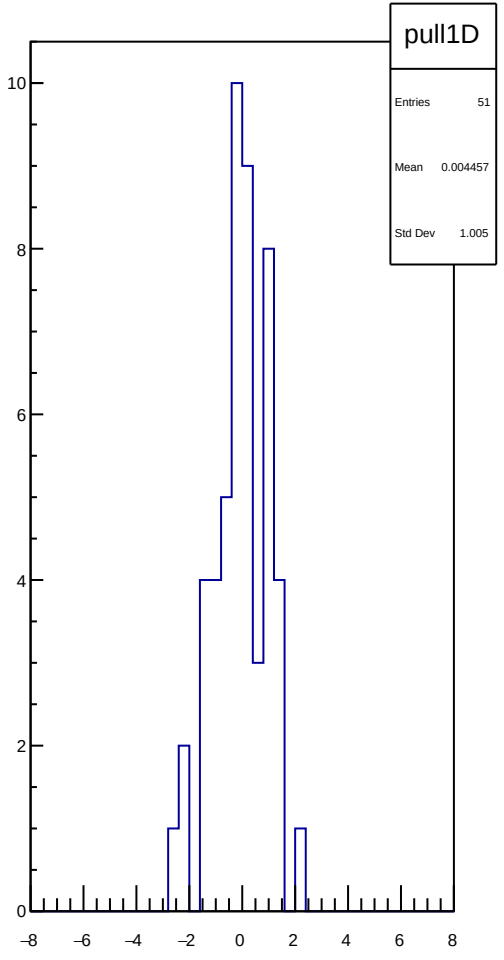
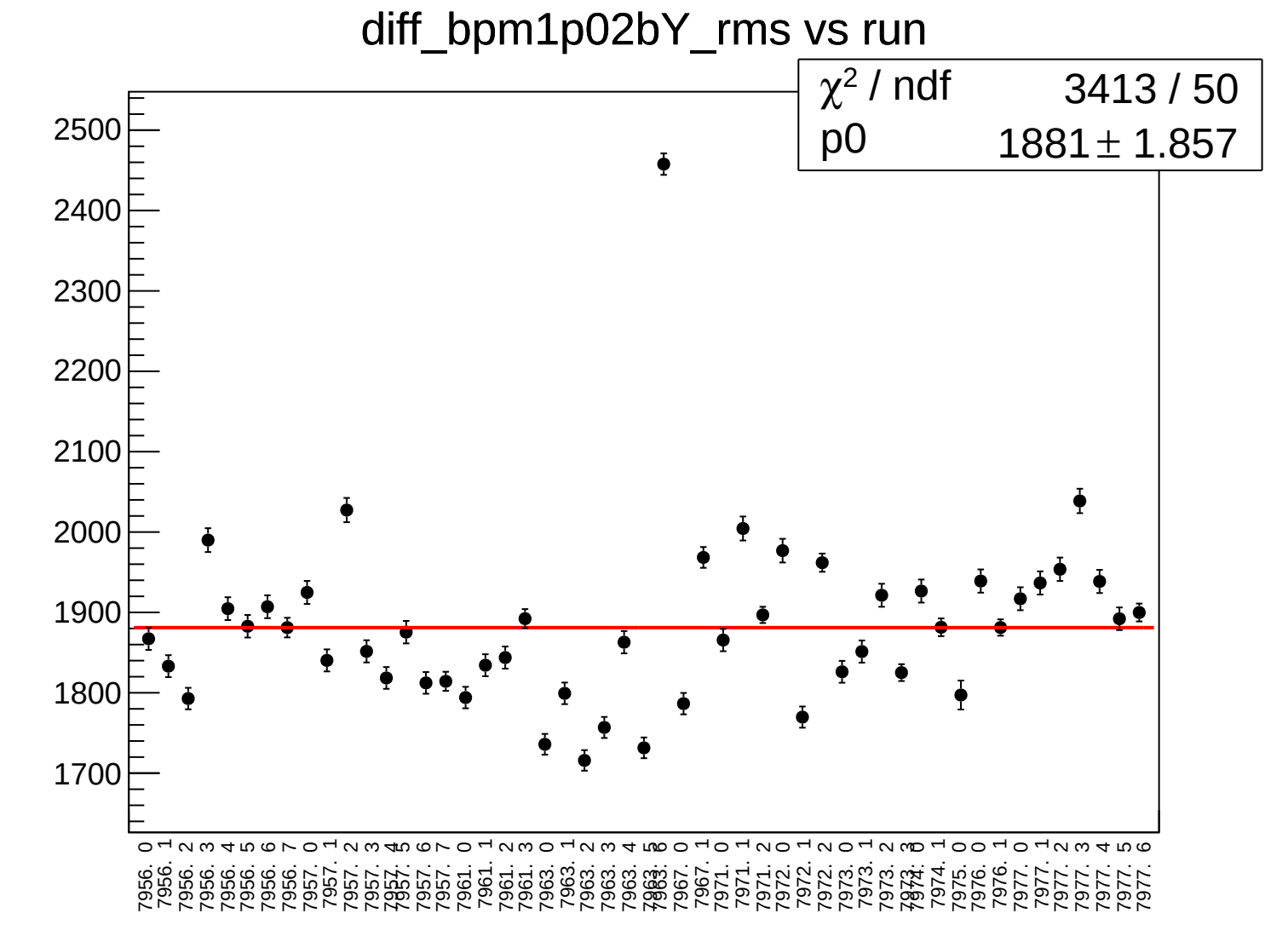
7977. 5
7977. 6


diff_bpm1p02bY_mean vs run
χ² / ndf 51.49 / 50
p0 0.1089 ± 2.627
pull
Entries 51
Mean 273
Std Dev 223.4


pull1D
Entries 51
Mean 0.004457
Std Dev 1.005


diff_bpm1p02bY_rms vs run
χ² / ndf 3413 / 50
p0 1881 ± 1.857
2500
2400
2300
2200
2100
2000
1900
1800
1700
7956. 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
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7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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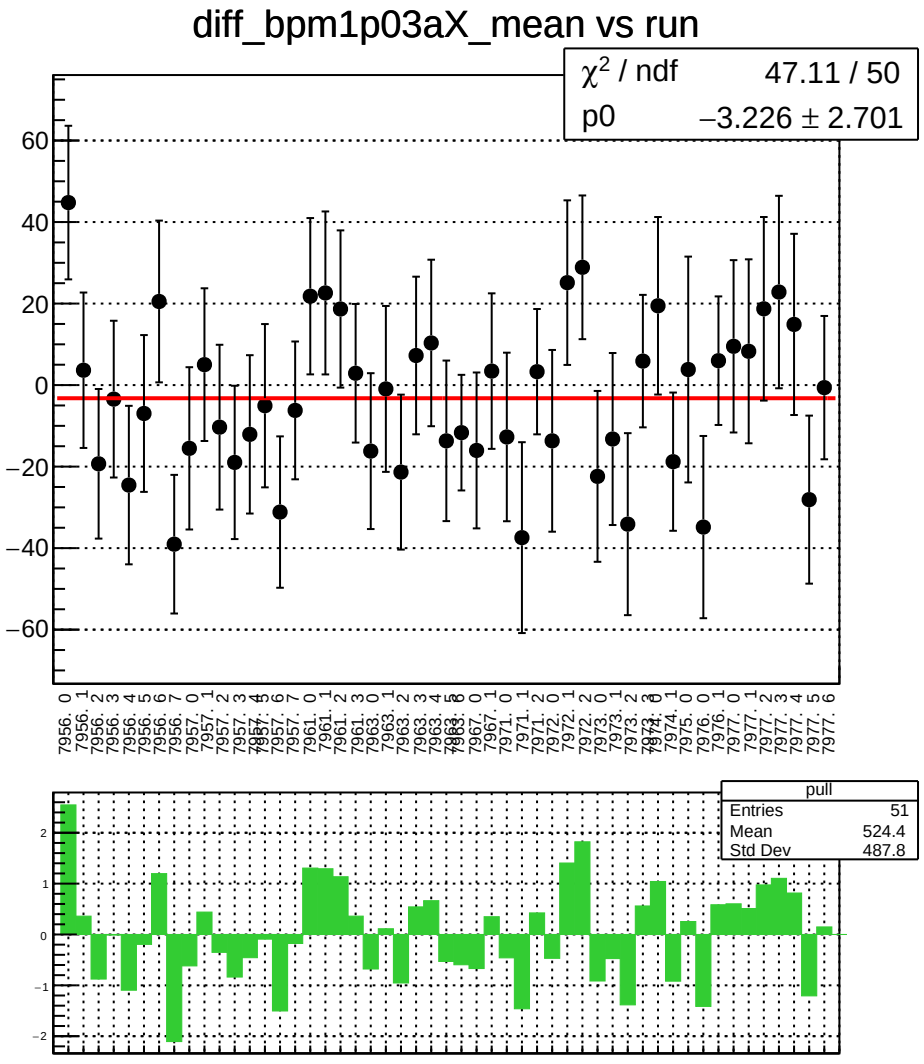
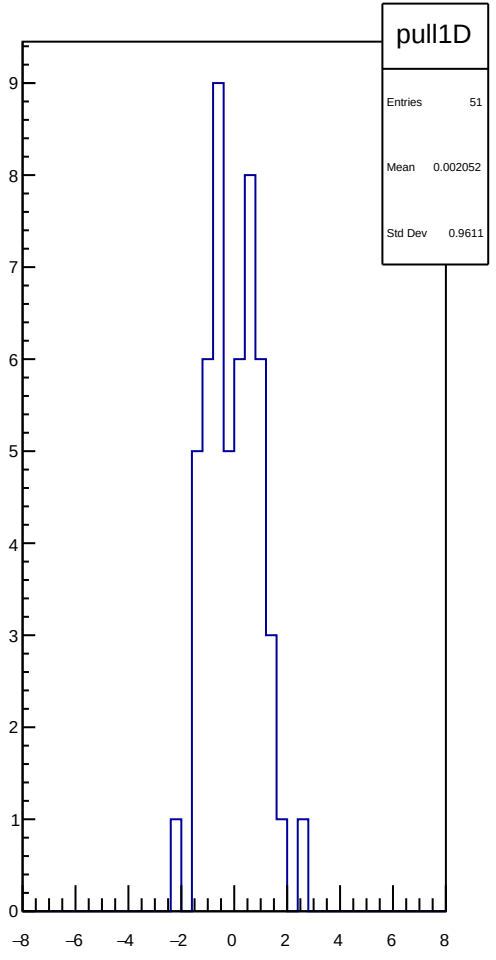
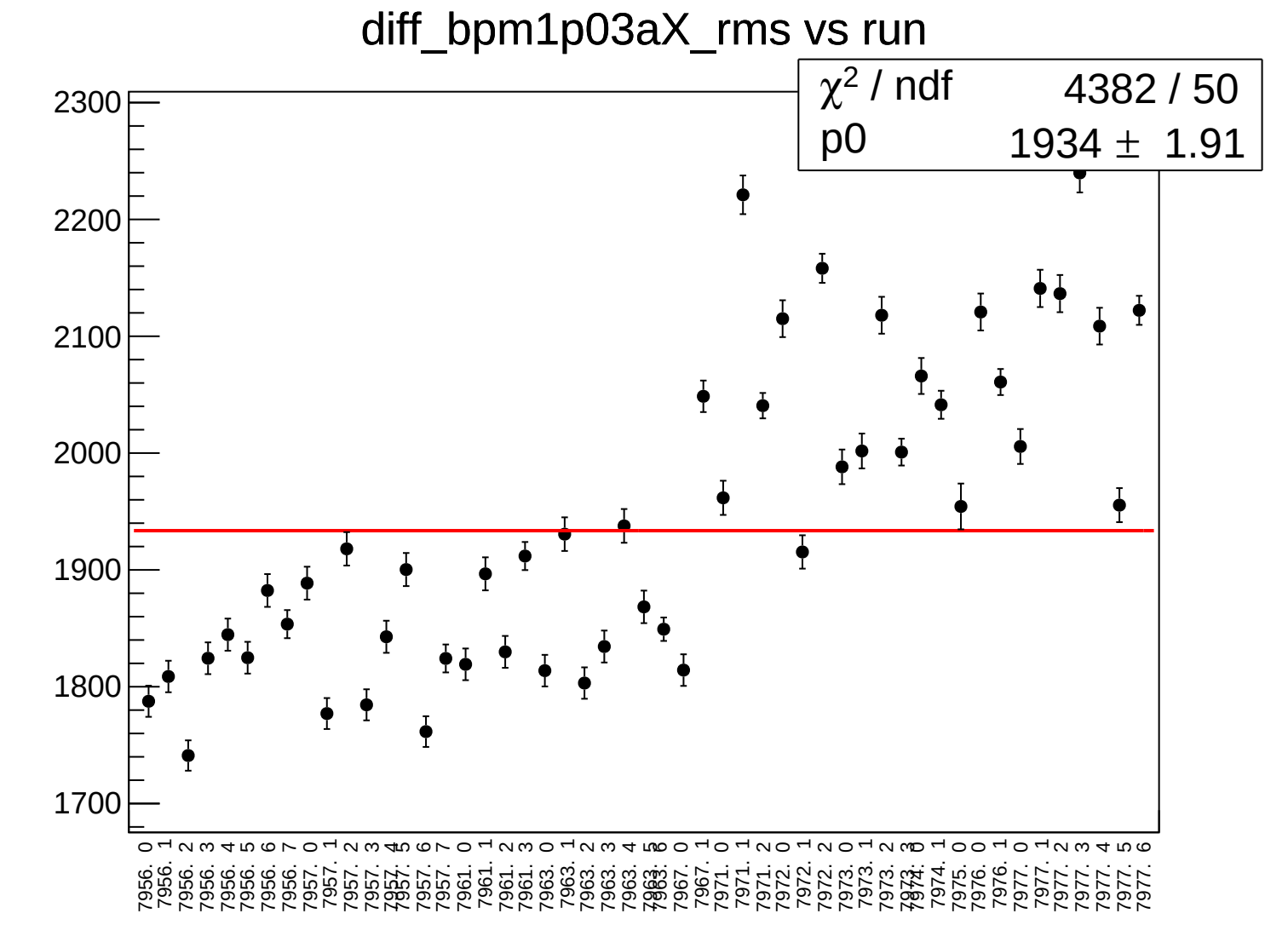
7977. 5
7977. 6


diff_bpm1p03aX_mean vs run
χ² / ndf 47.11 / 50
p0 −3.226 ± 2.701
pull
Entries 51
Mean 524.4
Std Dev 487.8


pull1D
Entries 51
Mean 0.002052
Std Dev 0.9611


diff_bpm1p03aX_rms vs run
χ² / ndf 4382 / 50
p0 1934 ± 1.91
2300
2200
2100
2000
1900
1800
1700
7956. 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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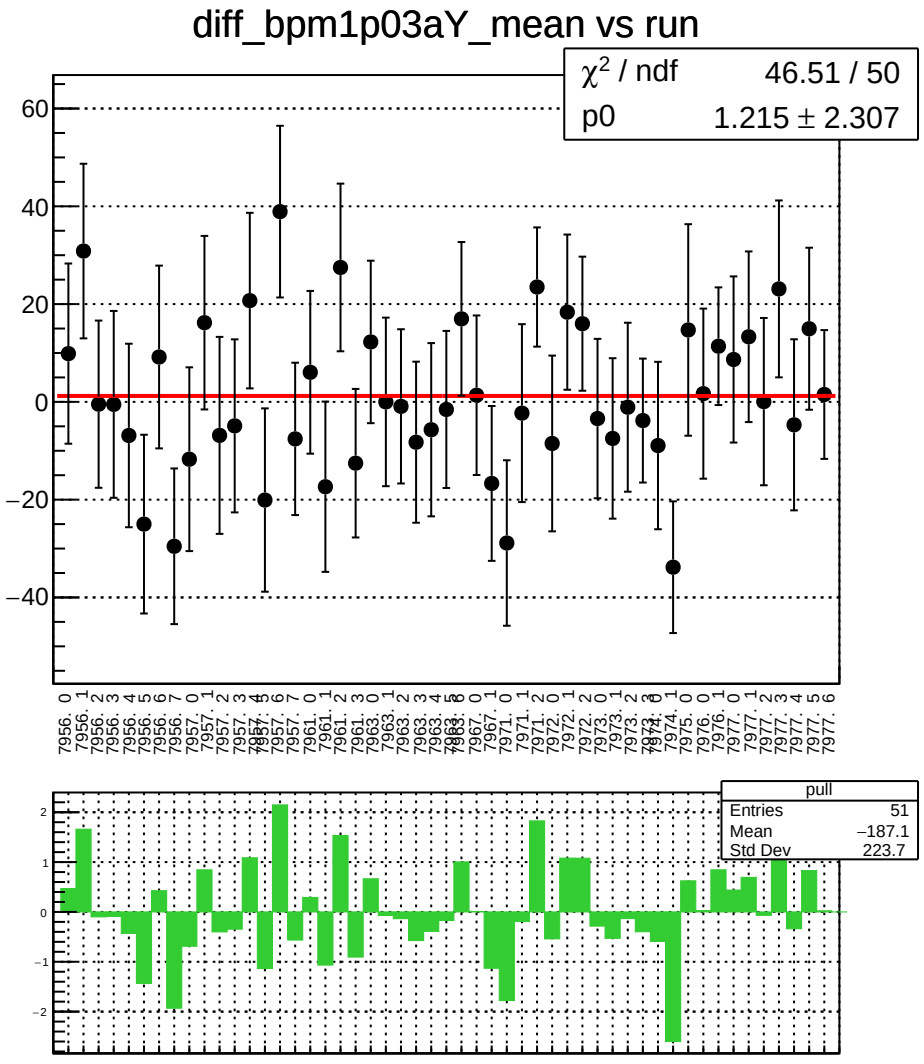
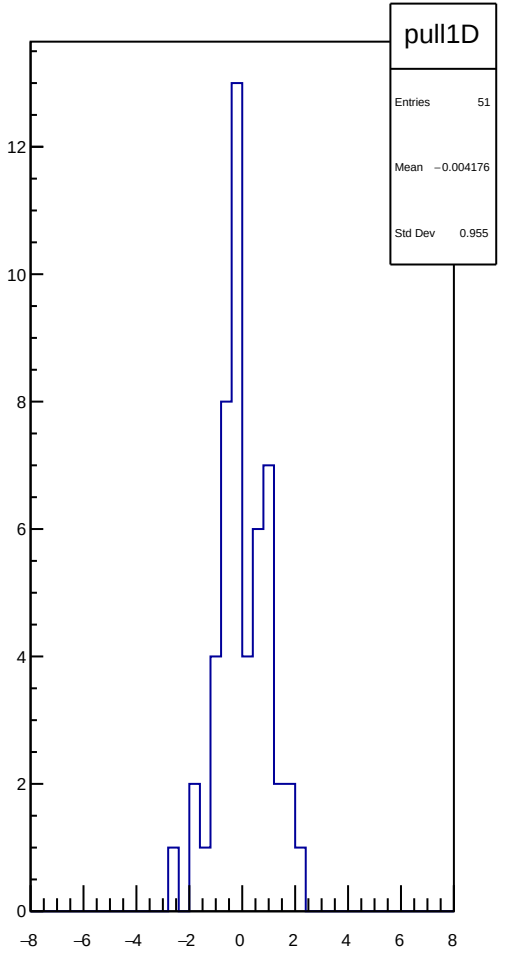
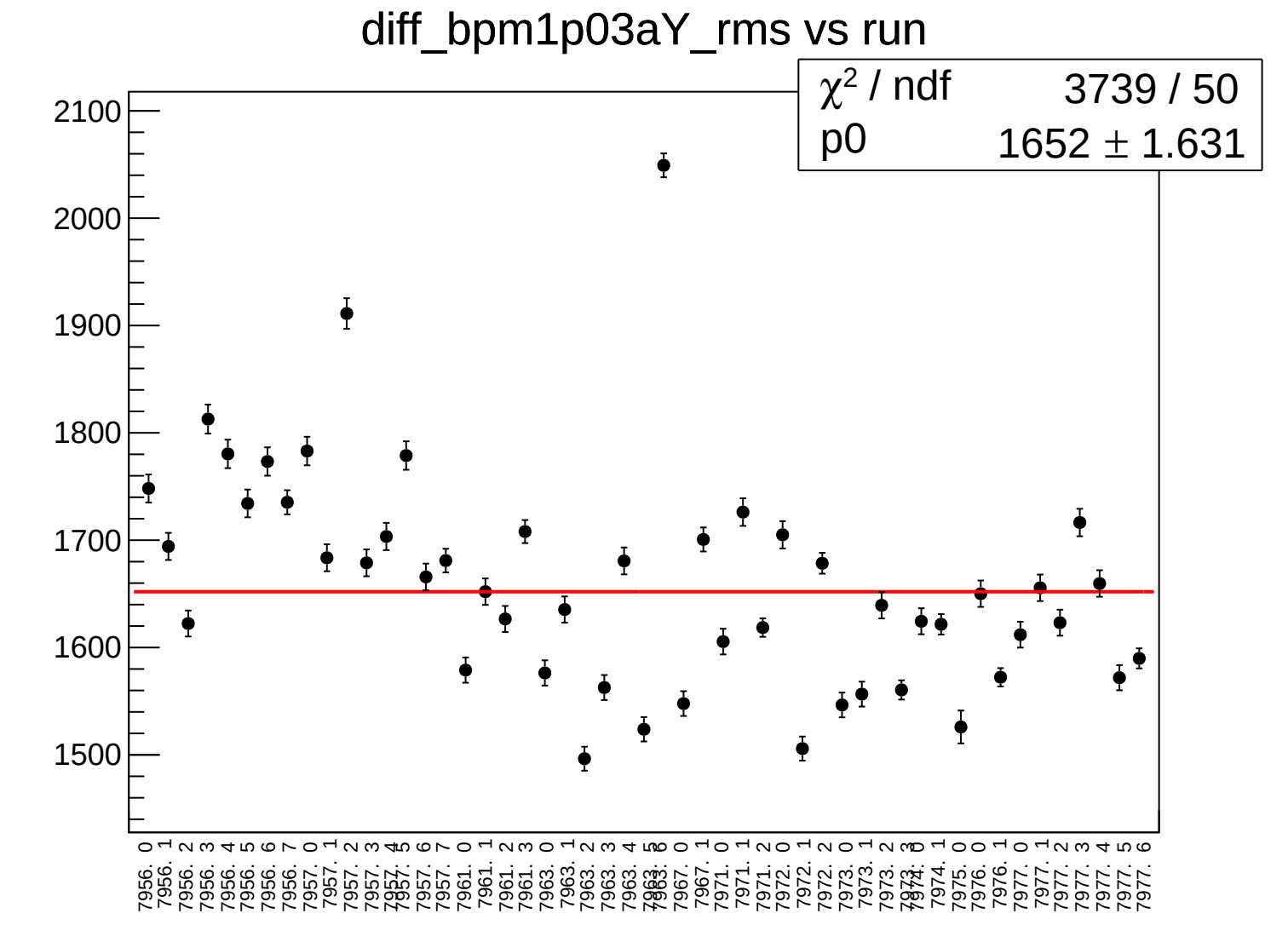
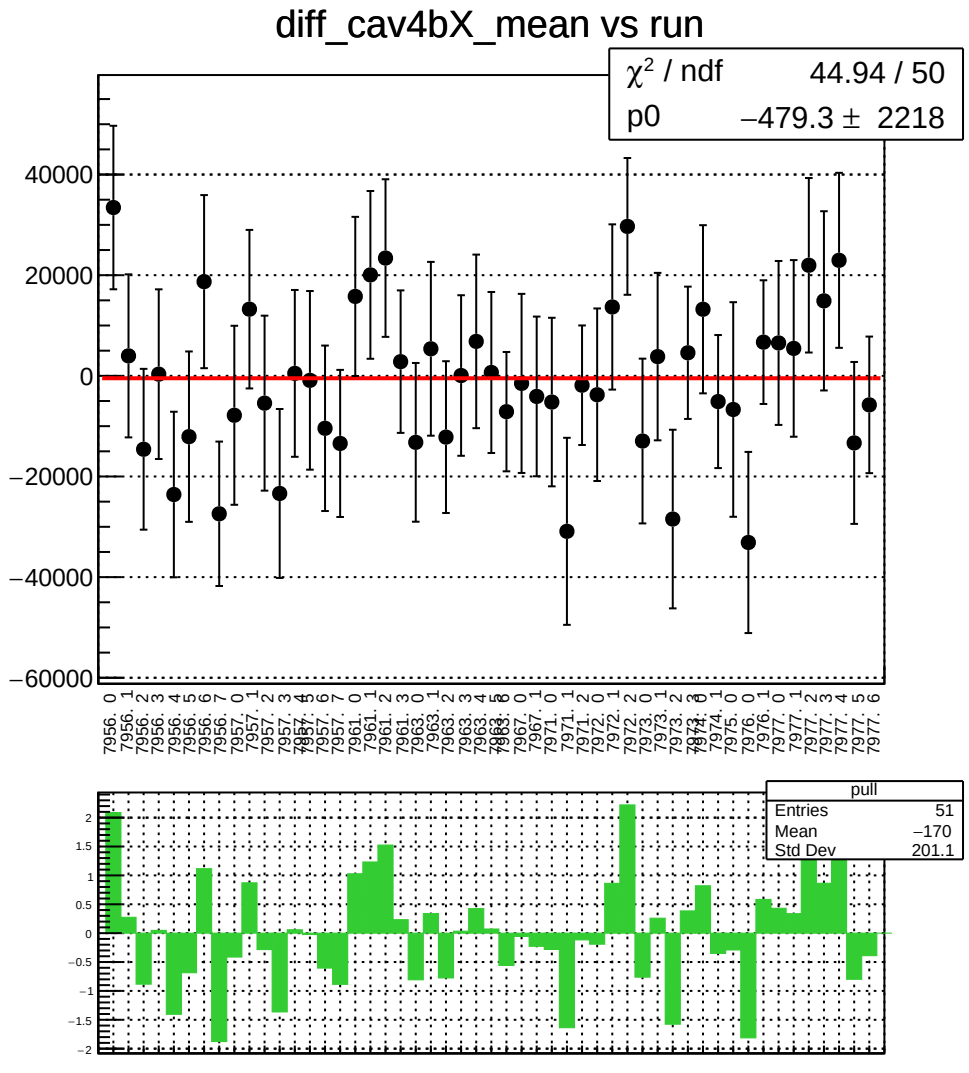
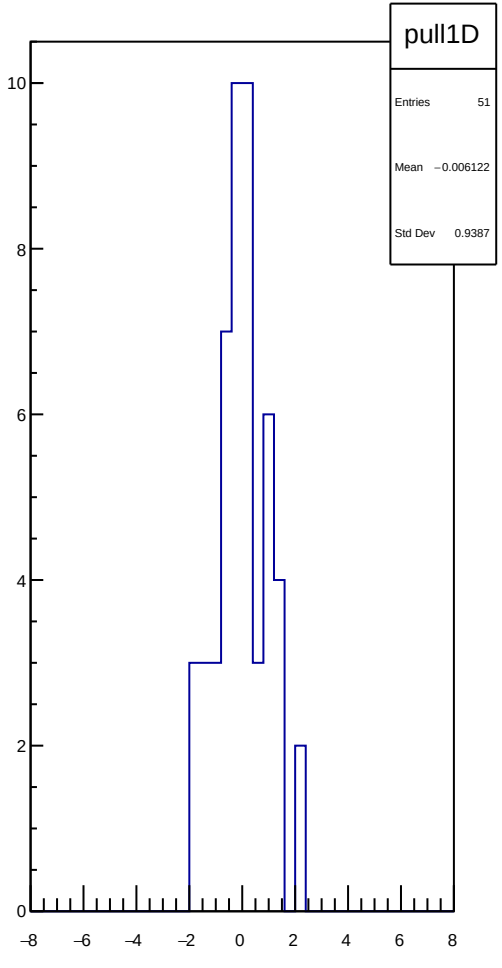
7977. 5
7977. 6

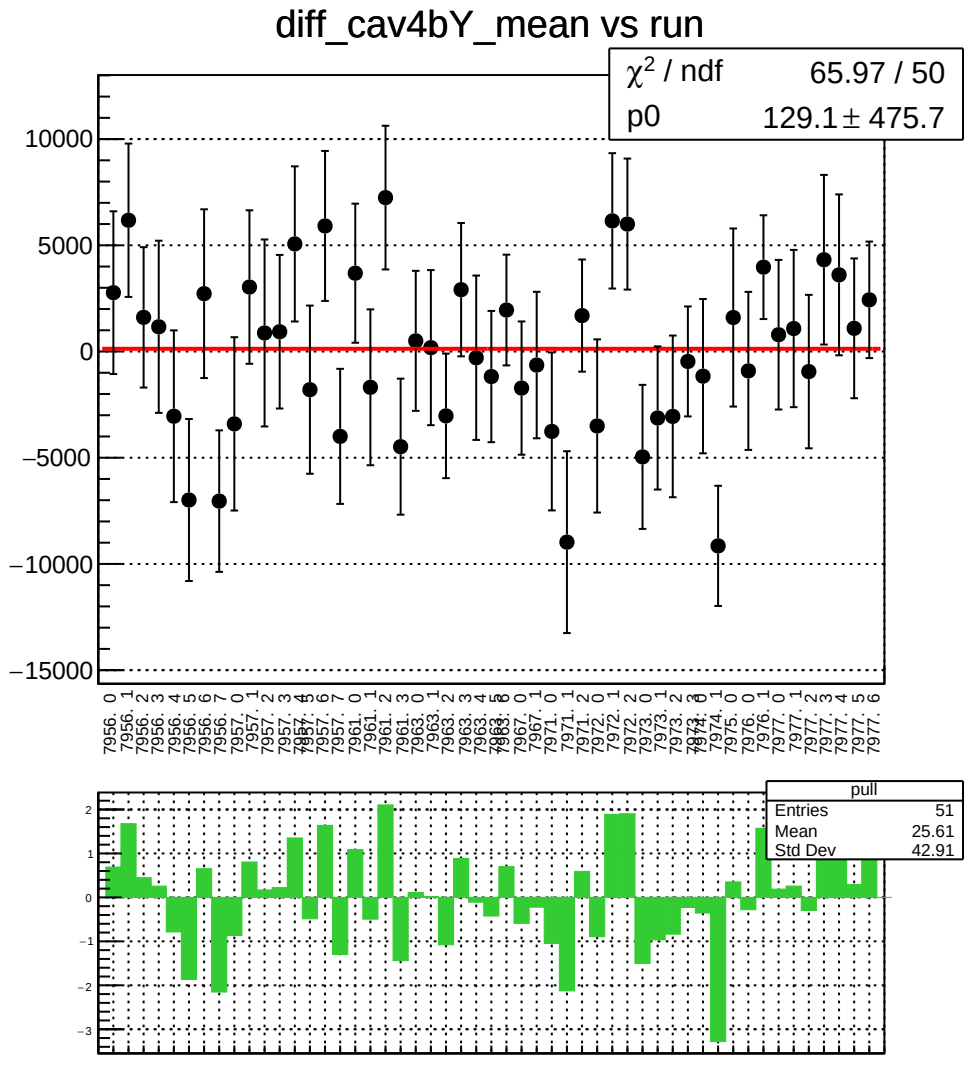

diff_bpm1p03aY_mean vs run
χ^2 / ndf 46.51 / 50
p0 1.215 ± 2.307
pull
Entries 51
Mean −187.1
Std Dev 223.7

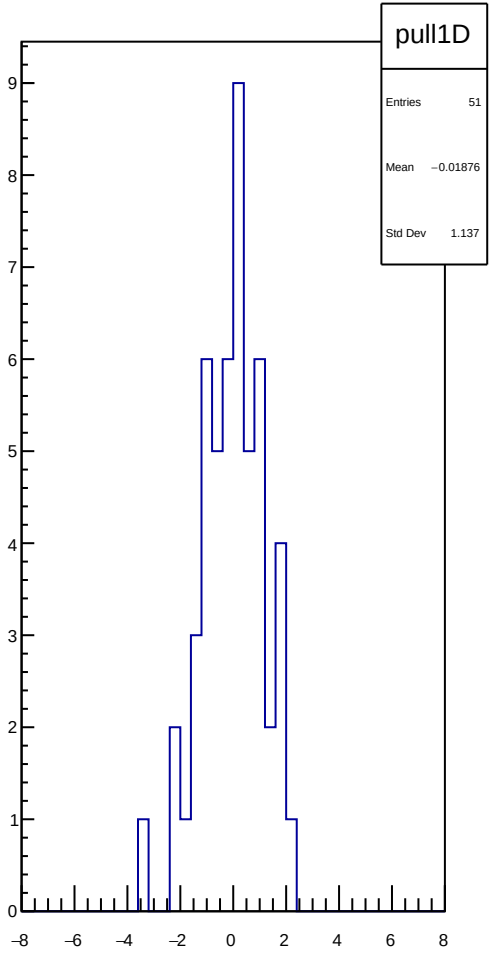

pull1D
Entries 51
Mean −0.004176
Std Dev 0.955

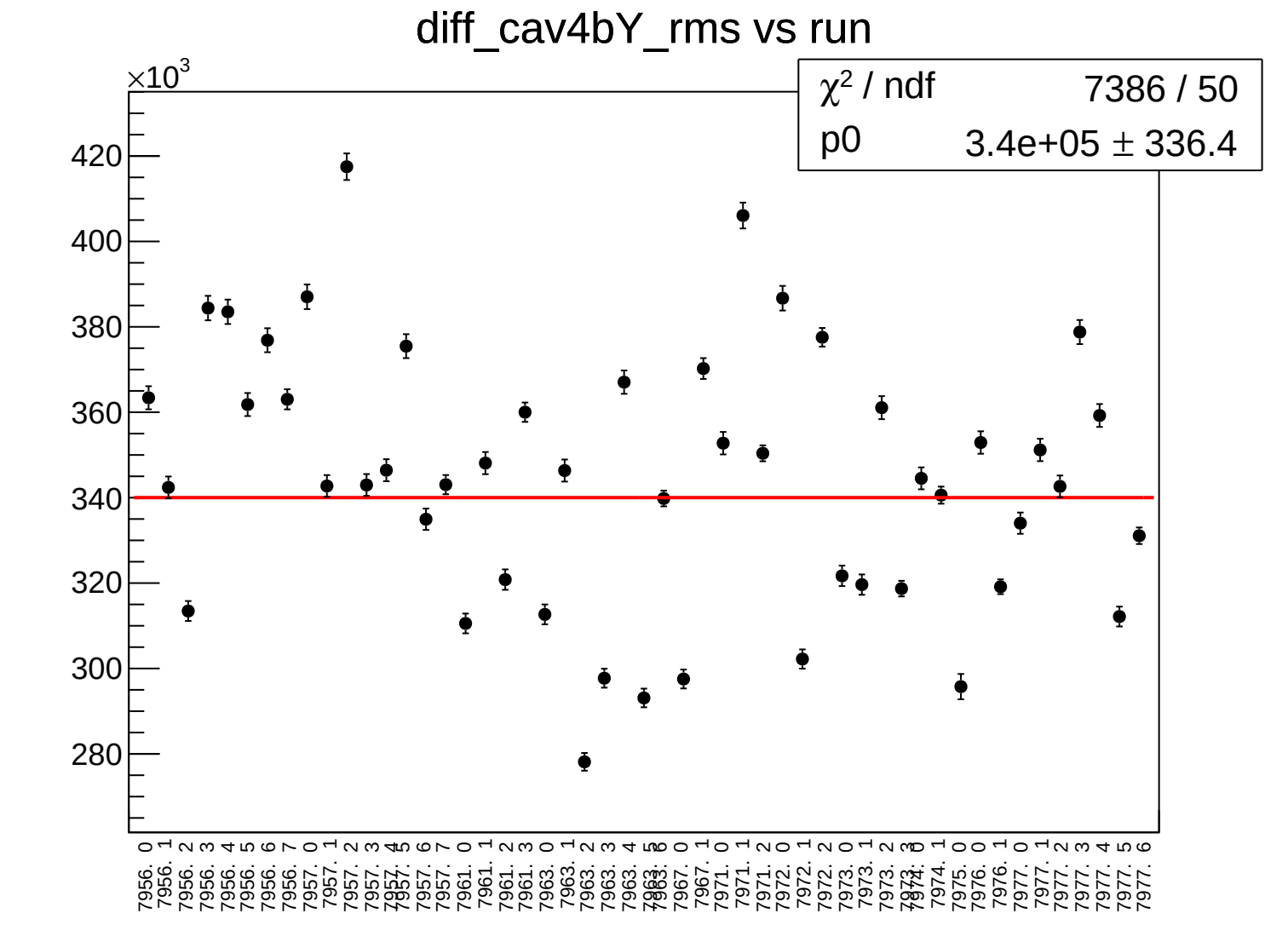

diff_bpm1p03aY_rms vs run
χ² / ndf 3739 / 50
p0 1652 ± 1.631
2100
2000
1900
1800
1700
1600
1500
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 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

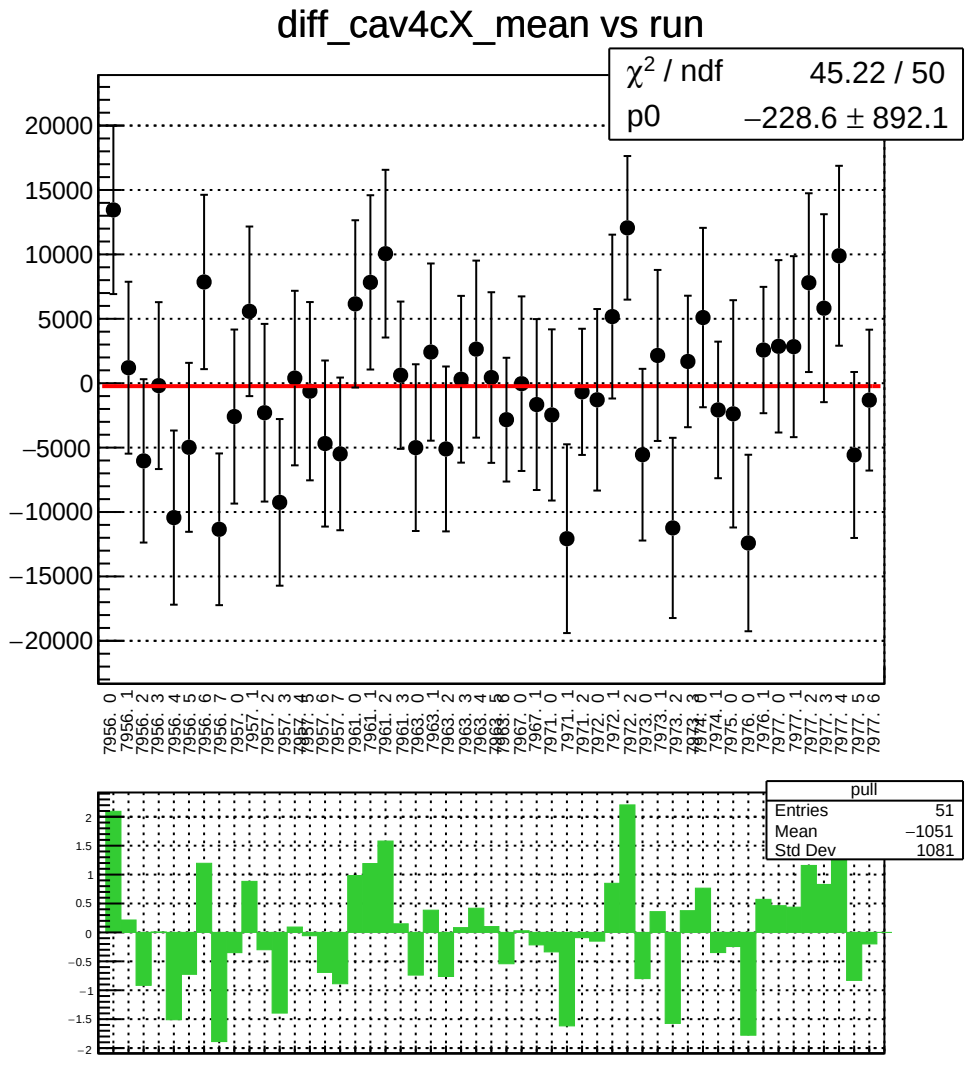

diff_cav4bX_mean vs run
χ² / ndf 44.94 / 50
p0 −479.3 ± 2218
40000
20000
0
−20000
−40000
−60000
pull
Entries 51
Mean −170
Std Dev 201.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

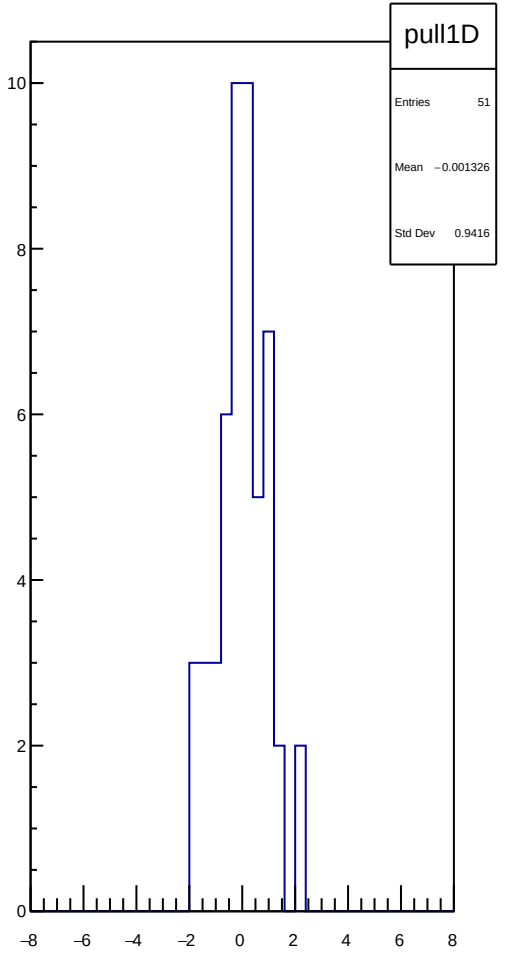

pull1D
Entries 51
Mean −0.006122
Std Dev 0.9387
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

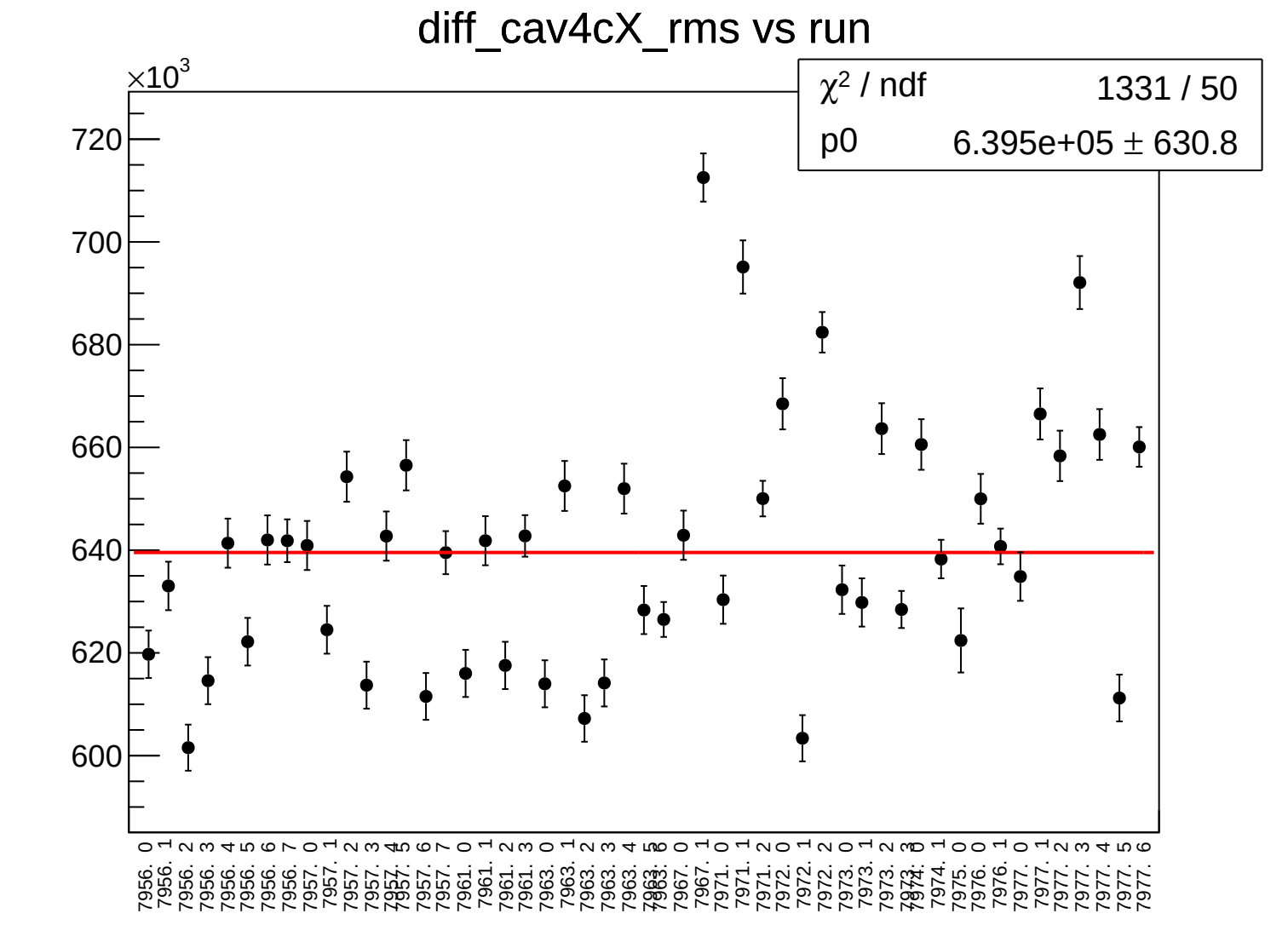

diff_cav4bY_mean vs run
χ^2 / ndf 65.97 / 50
p0 129.1 ± 475.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 51
Mean 25.61
Std Dev 42.91
2
1
0
−1
−2
−3

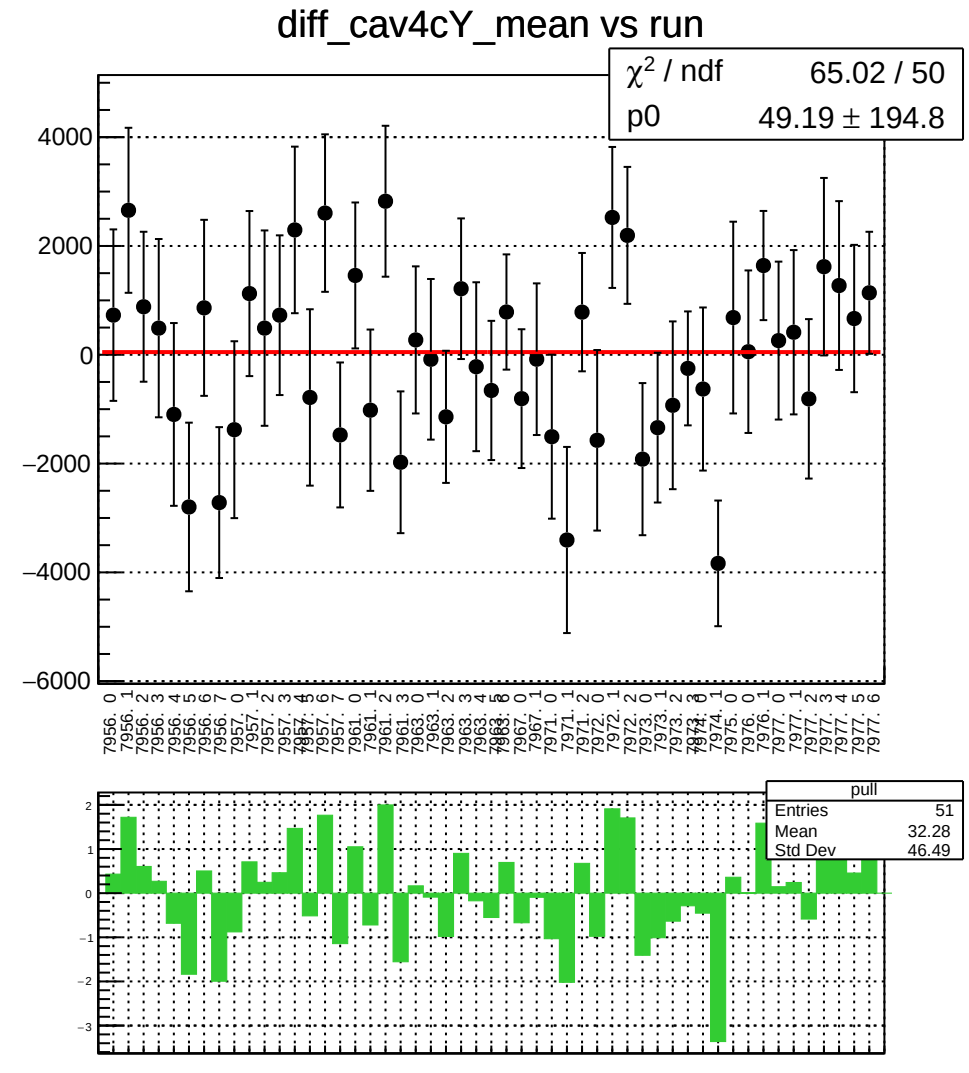

pull1D
Entries 51
Mean −0.01876
Std Dev 1.137
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

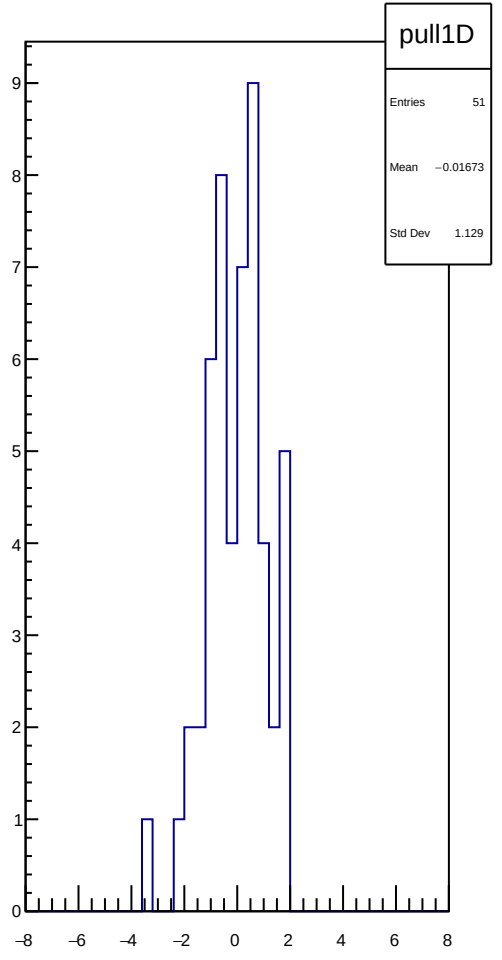

diff_cav4bY_rms vs run
×10^3
χ² / ndf 7386 / 50
p0 3.4e+05 ± 336.4
420
400
380
360
340
320
300
280
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971.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

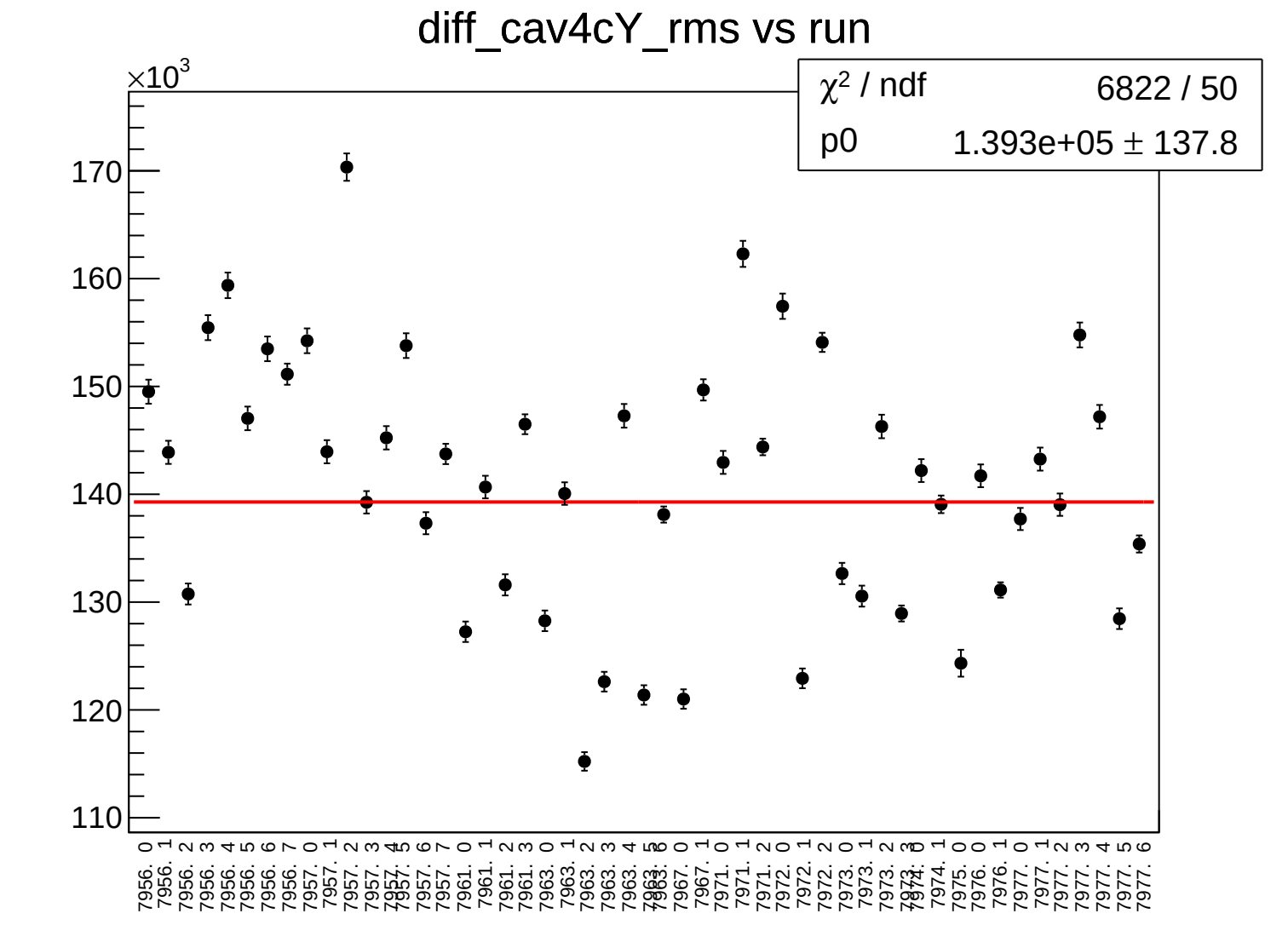

diff_cav4cX_mean vs run
χ² / ndf 45.22 / 50
p0 −228.6 ± 892.1
pull
Entries 51
Mean −1051
Std Dev 1081

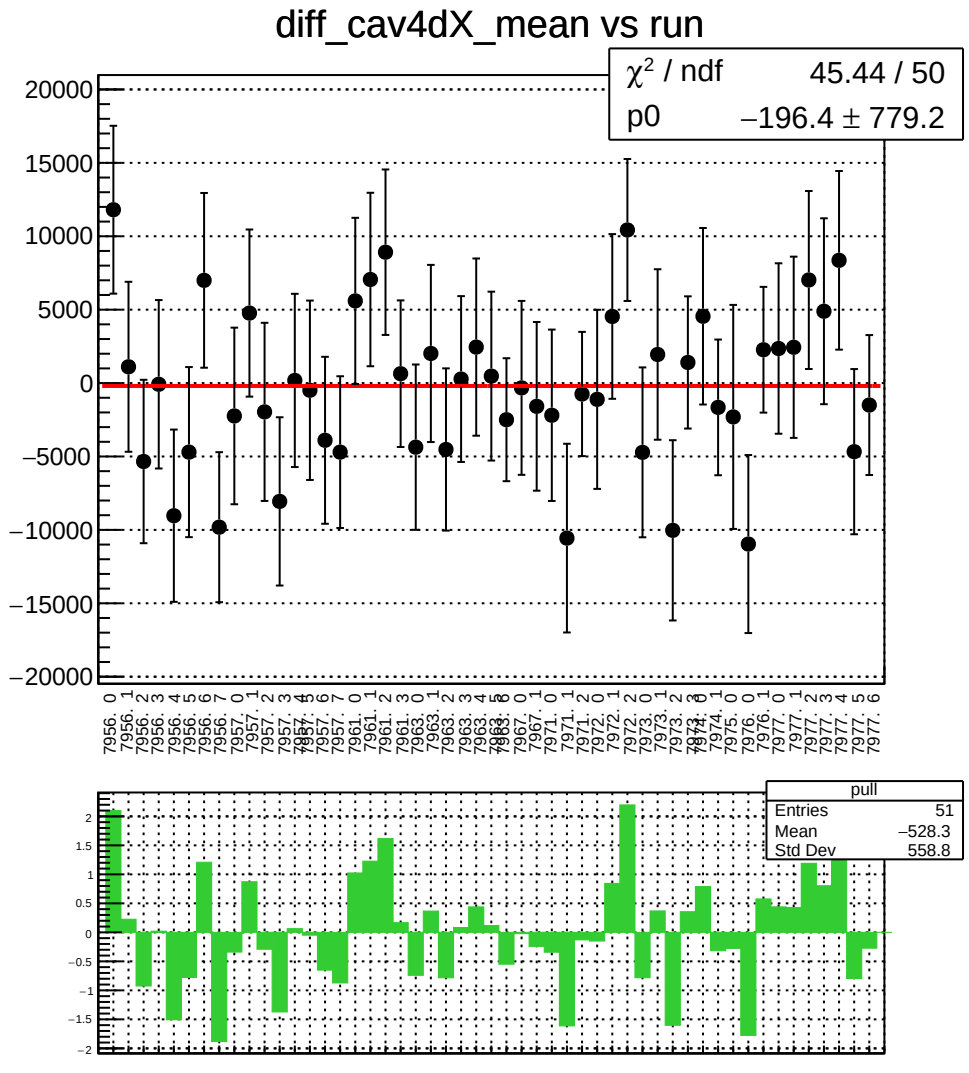

pull1D
Entries 51
Mean −0.001326
Std Dev 0.9416

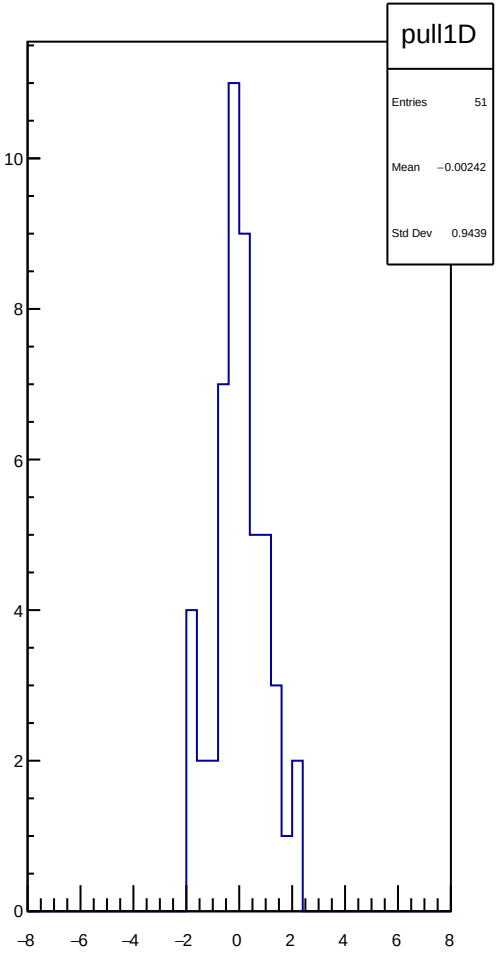

diff_cav4cX_rms vs run
×10^3
720
700
680
660
640
620
600
χ² / ndf 1331 / 50
p0 6.395e+05 ± 630.8
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967.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

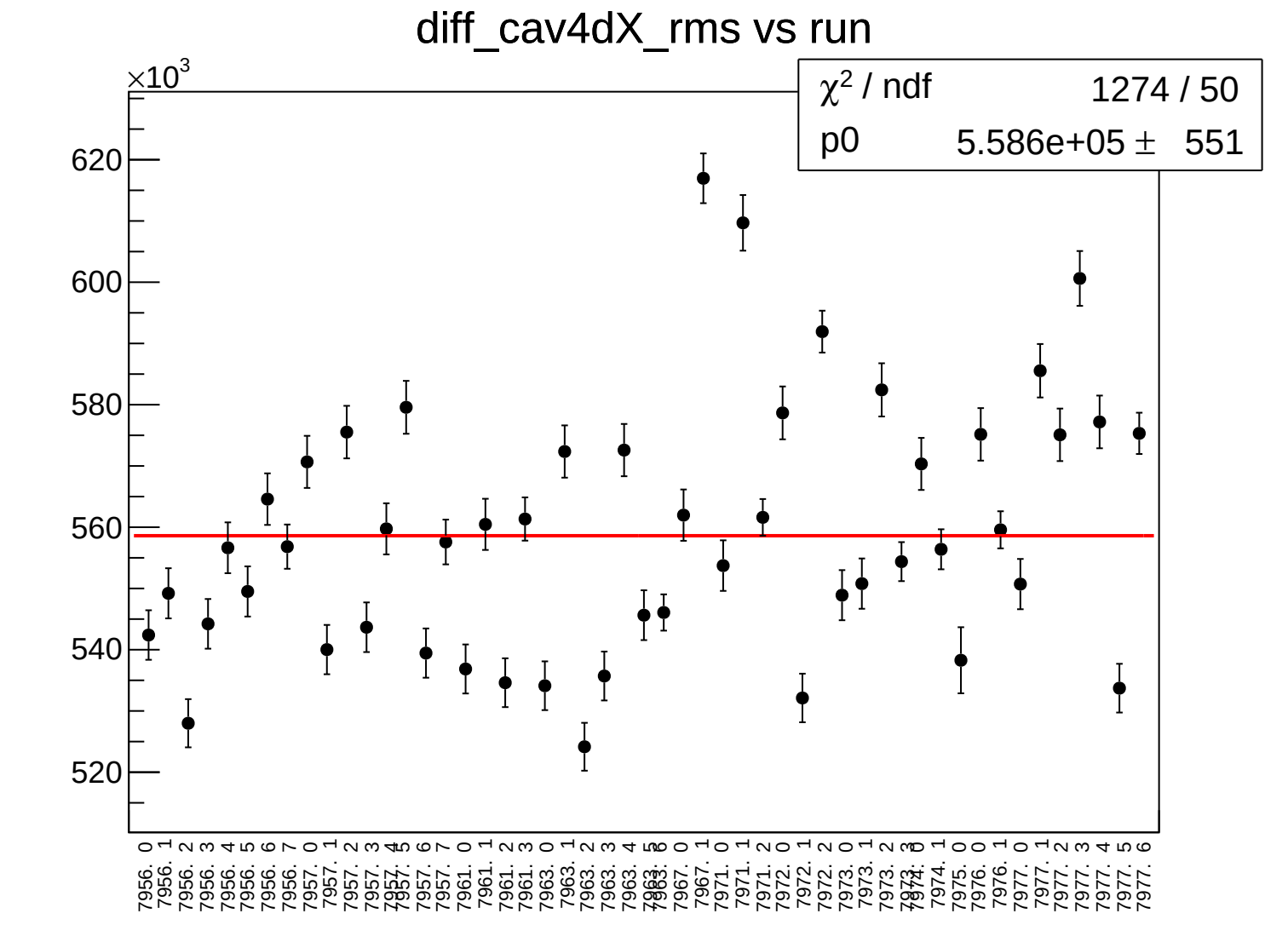

diff_cav4cY_mean vs run
χ² / ndf 65.02 / 50
p0 49.19 ± 194.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 51
Mean 32.28
Std Dev 46.49
2
1
0
−1
−2
−3


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
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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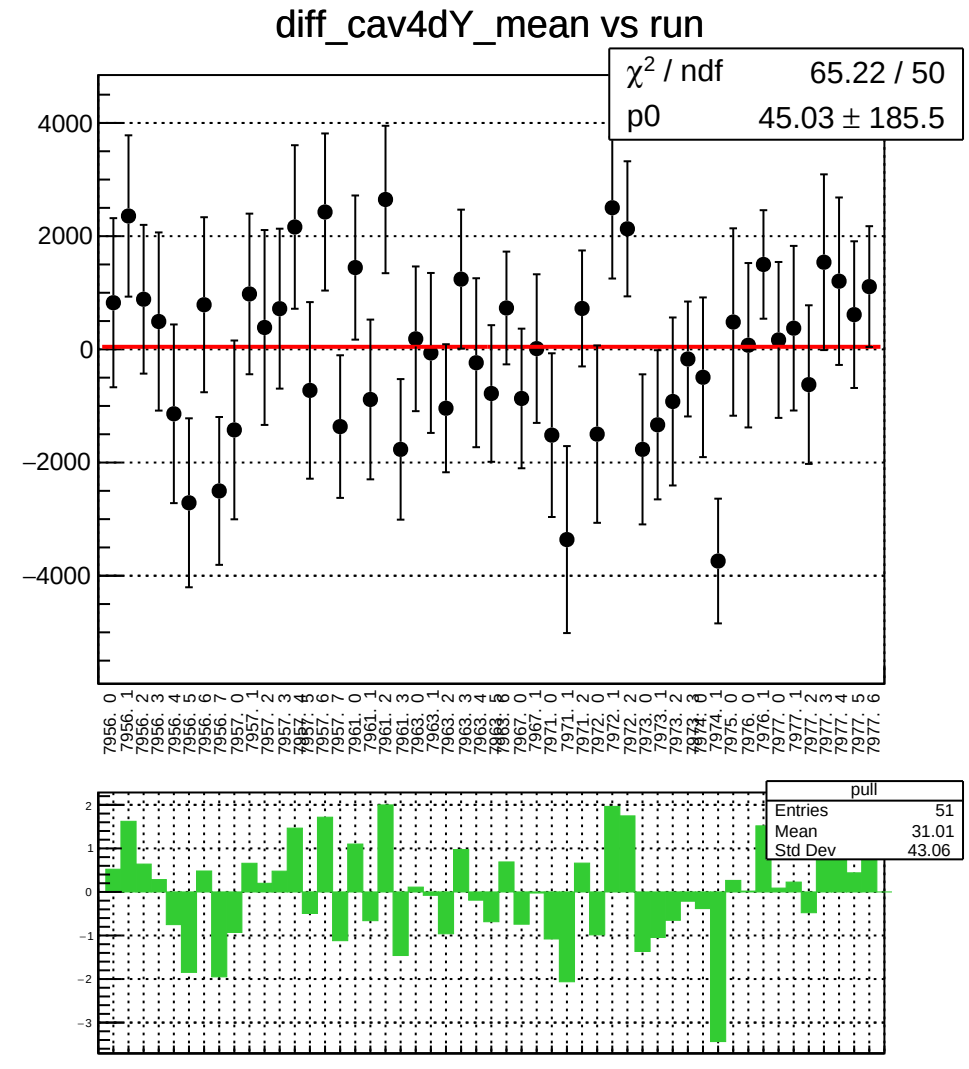
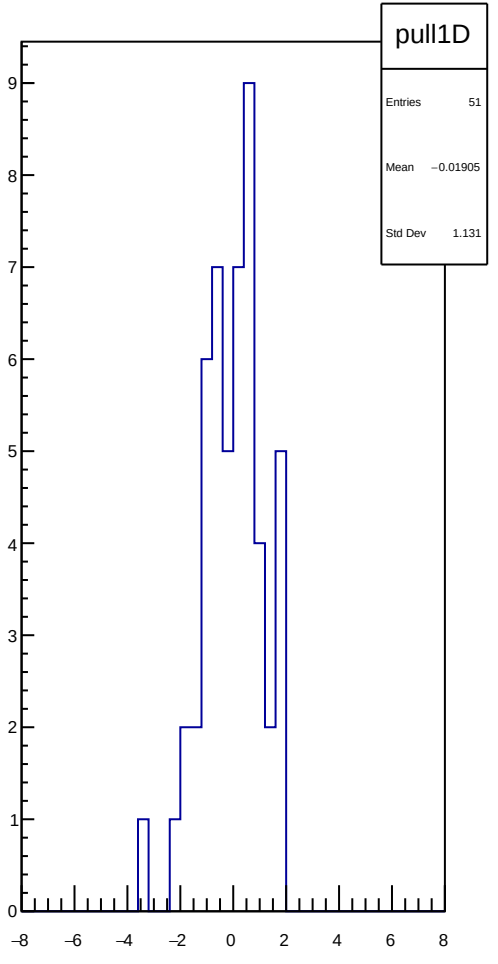
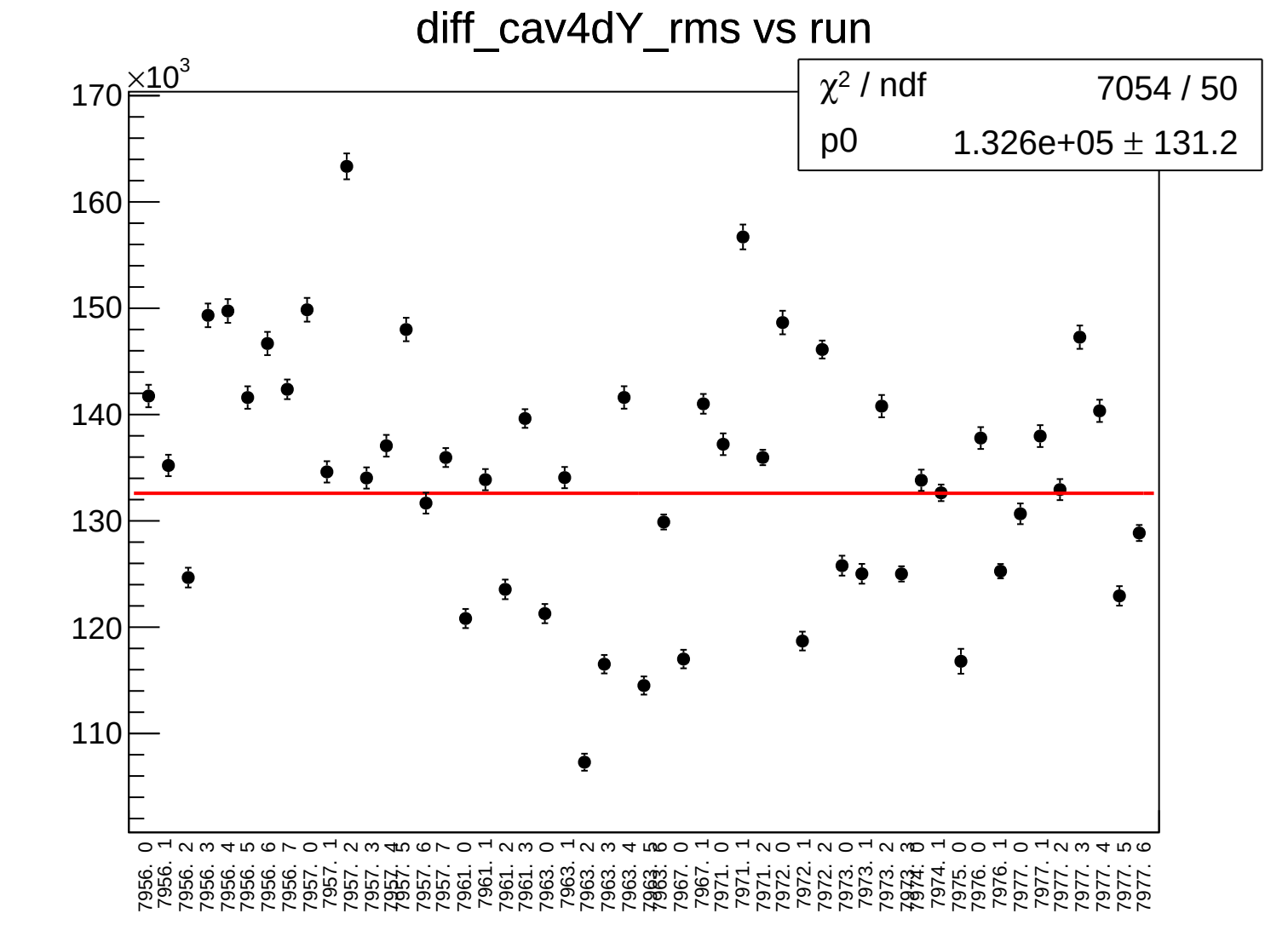
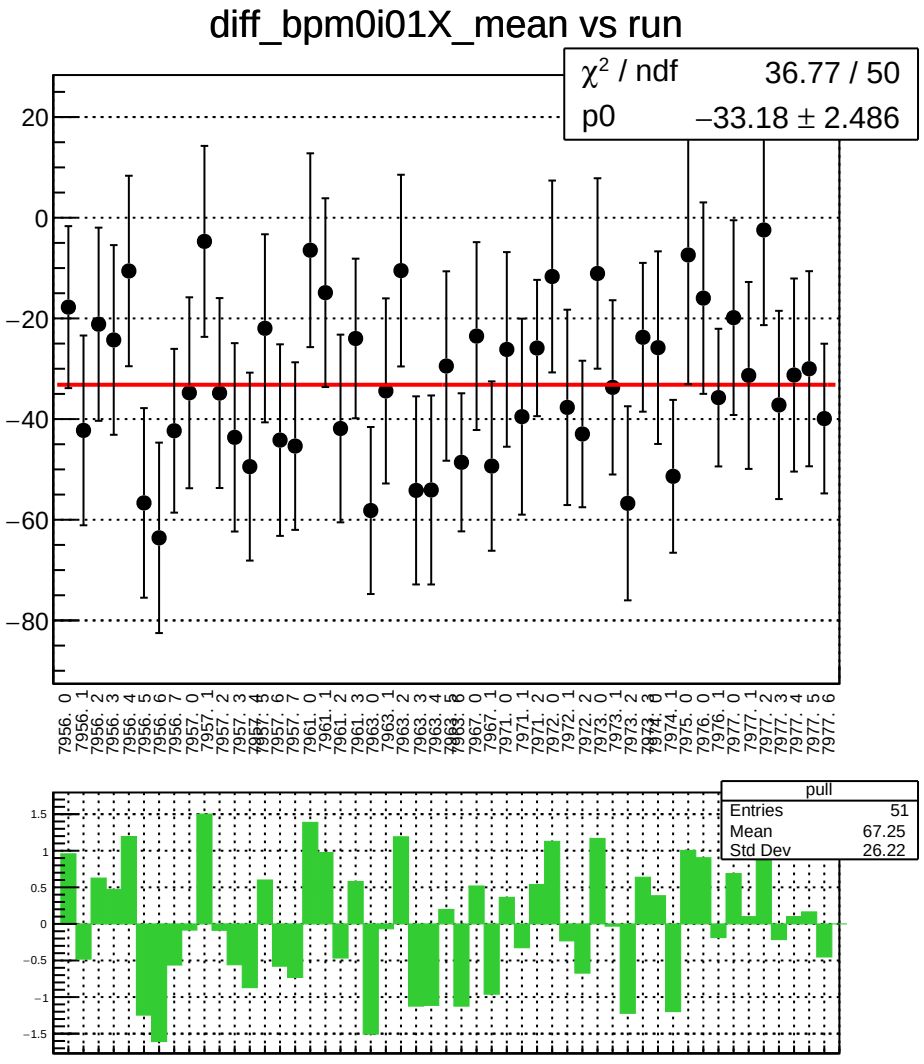
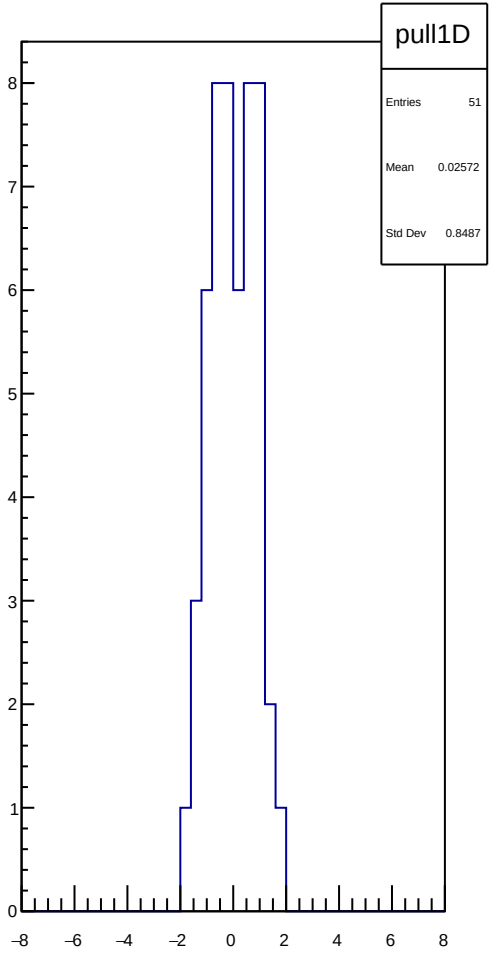
7977. 5
7977. 6

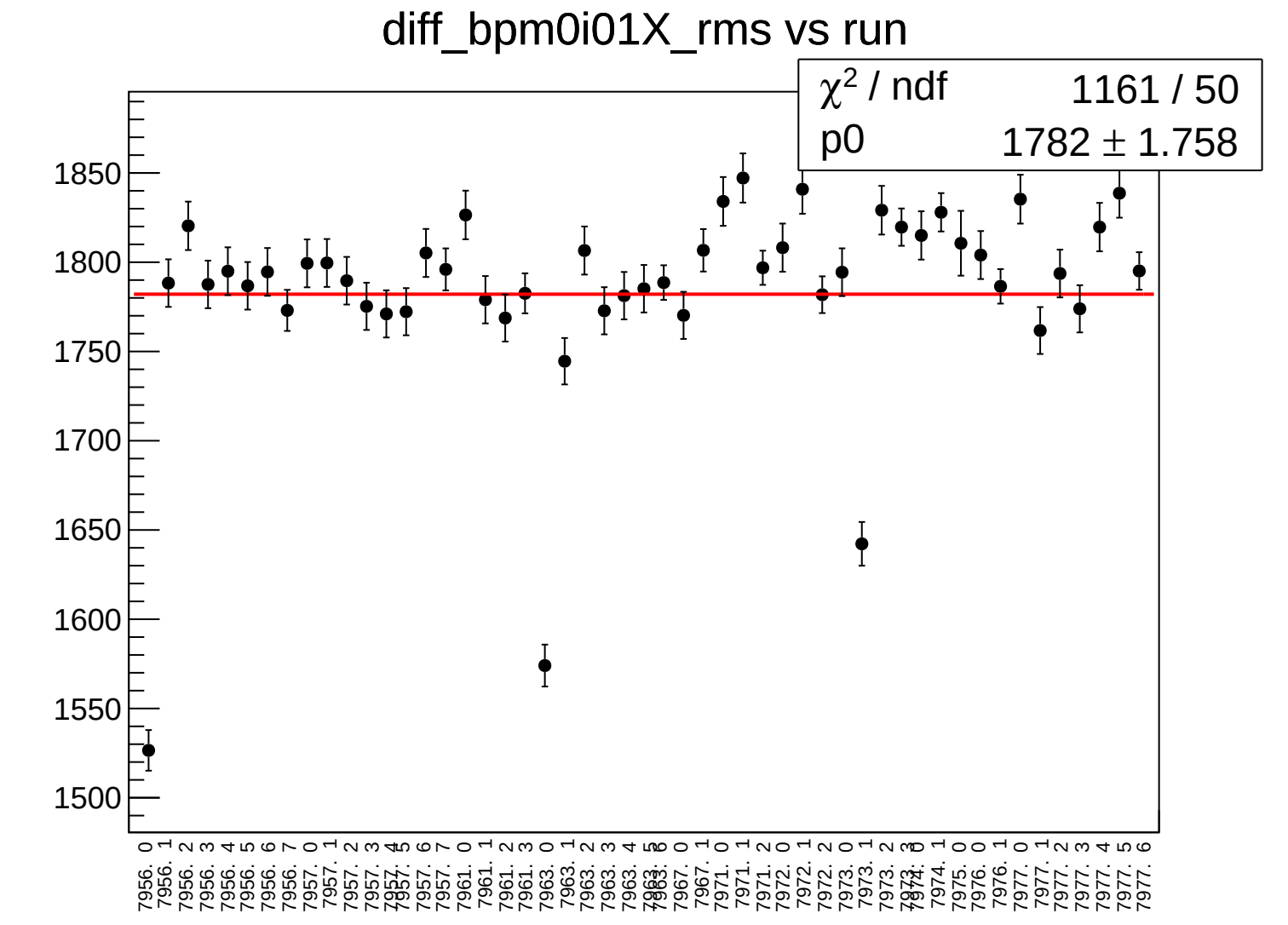

diff_cav4dY_mean vs run
χ² / ndf 65.22 / 50
p0 45.03 ± 185.5
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 31.01
Std Dev 43.06
2
1
0
−1
−2
−3


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_bpm0i01X_mean vs run
χ² / ndf 36.77 / 50
p0 −33.18 ± 2.486
pull
Entries 51
Mean 67.25
Std Dev 26.22


pull1D
Entries 51
Mean 0.02572
Std Dev 0.8487


diff_bpm0i01X_rms vs run
χ² / ndf 1161 / 50
p0 1782 ± 1.758
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
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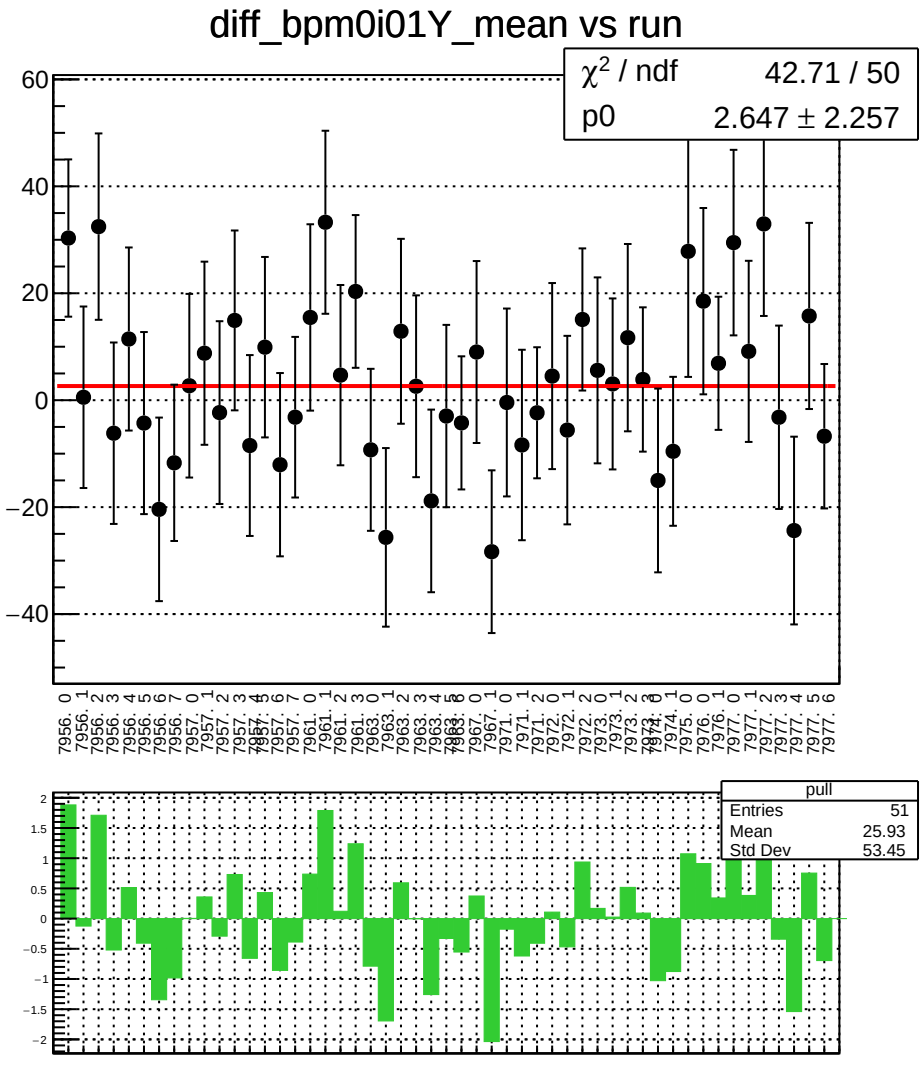
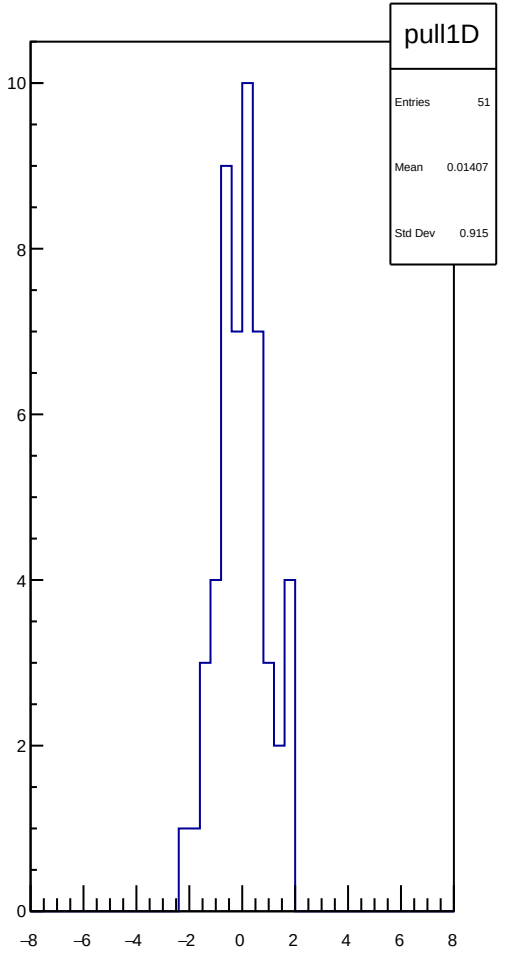
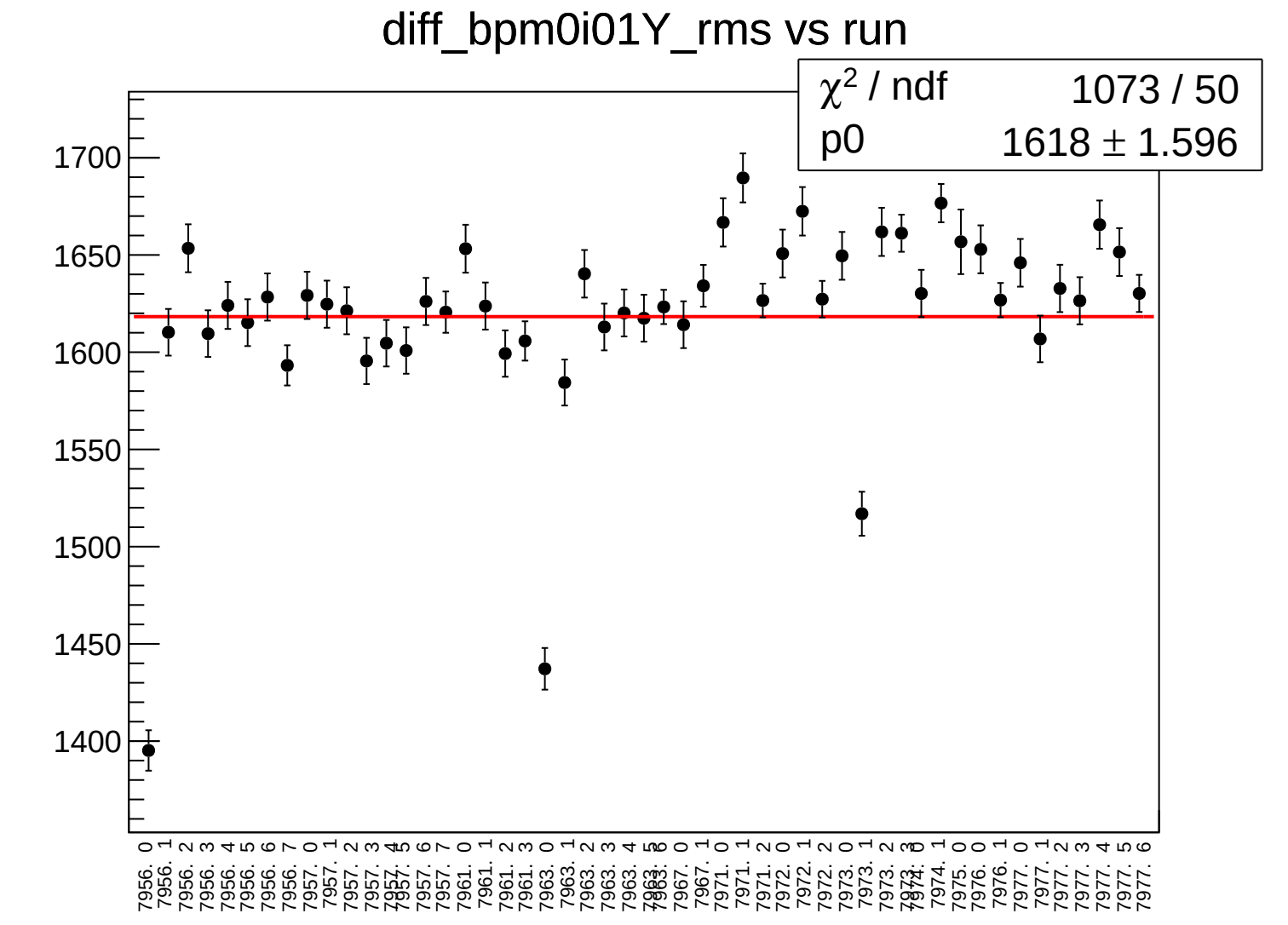
7977. 5
7977. 6


diff_bpm0i01Y_mean vs run
χ^2 / ndf 42.71 / 50
p0 2.647 ± 2.257
pull
Entries 51
Mean 25.93
Std Dev 53.45


pull1D
Entries 51
Mean 0.01407
Std Dev 0.915


diff_bpm0i01Y_rms vs run
χ² / ndf 1073 / 50
p0 1618 ± 1.596
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
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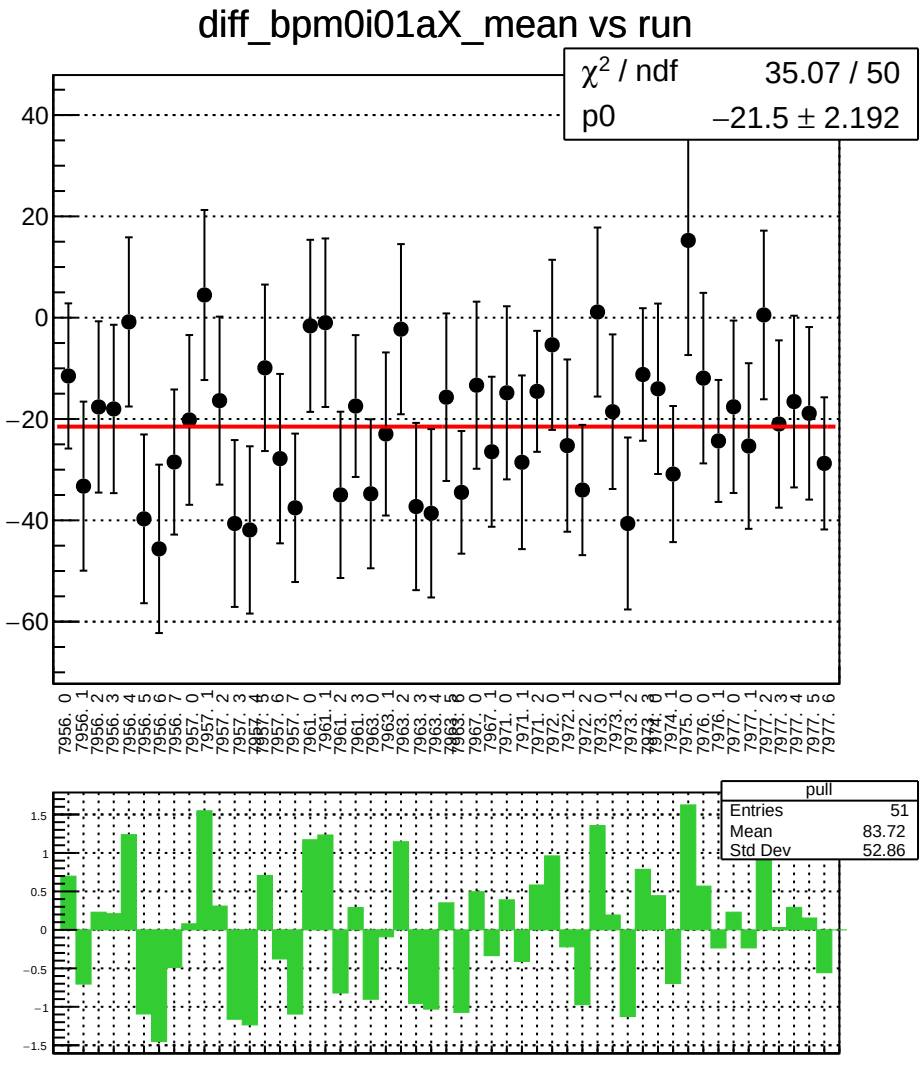
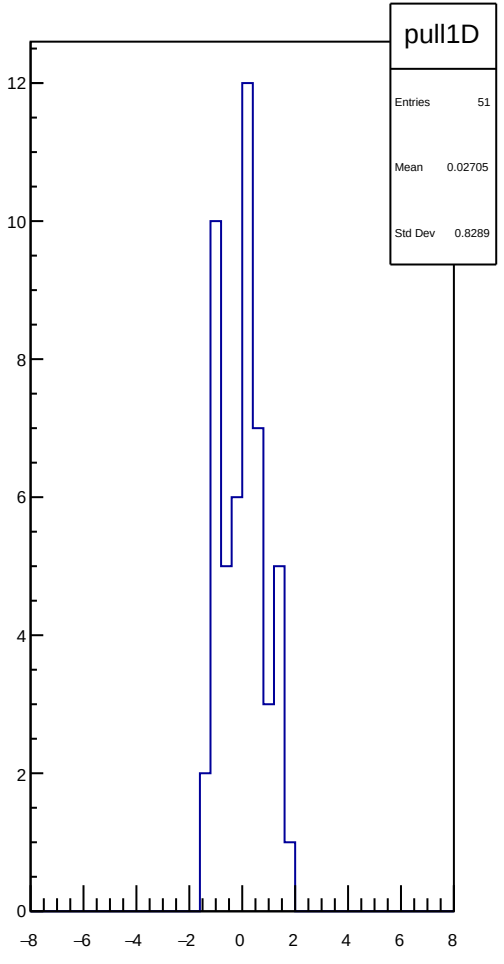
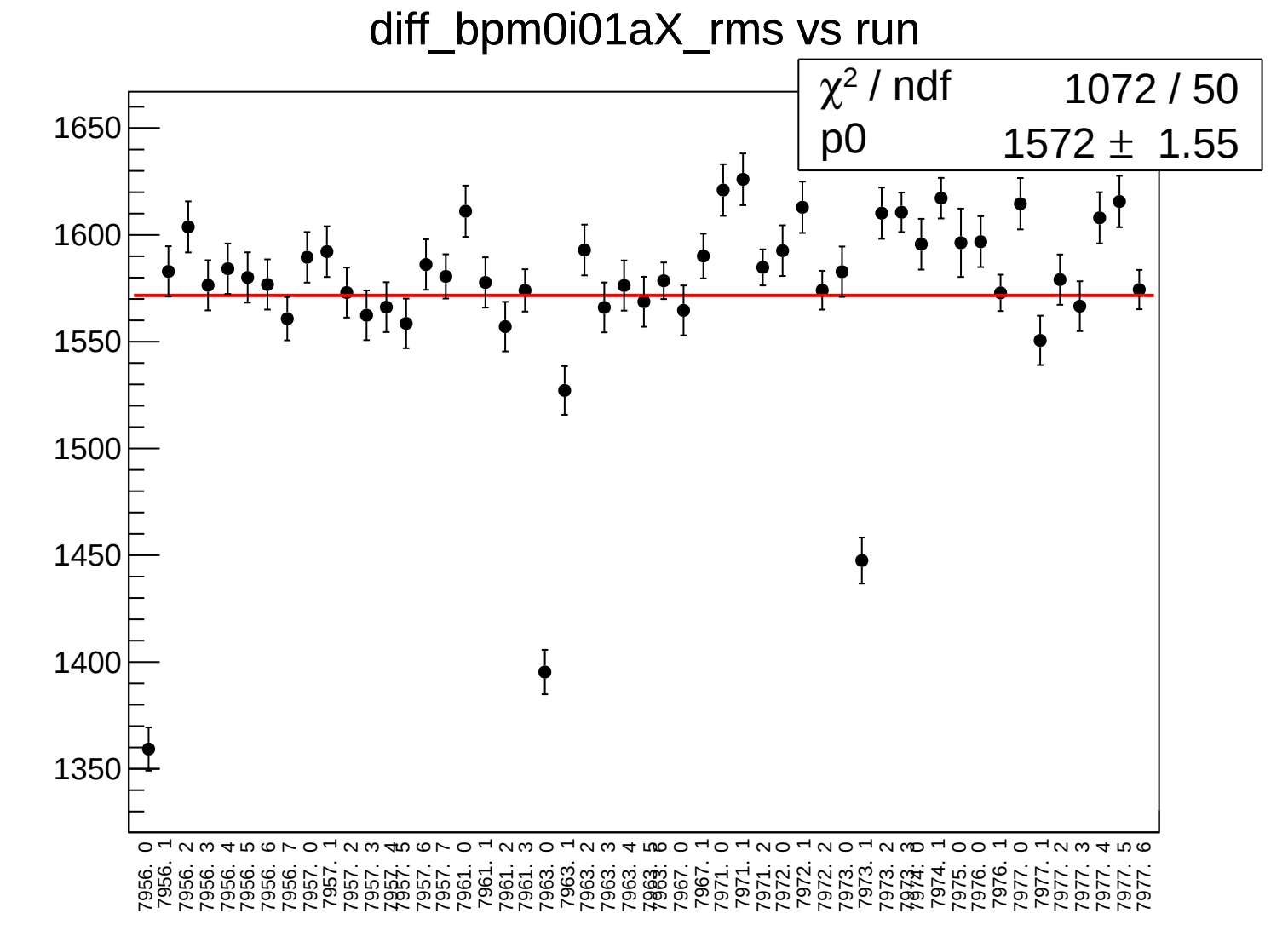
7977. 5
7977. 6


diff_bpm0i01aX_mean vs run
χ² / ndf 35.07 / 50
p0 −21.5 ± 2.192
pull
Entries 51
Mean 83.72
Std Dev 52.86


pull1D
Entries 51
Mean 0.02705
Std Dev 0.8289


diff_bpm0i01aX_rms vs run
χ² / ndf 1072 / 50
p0 1572 ± 1.55
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
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7976. 0
7976. 1
7977. 0
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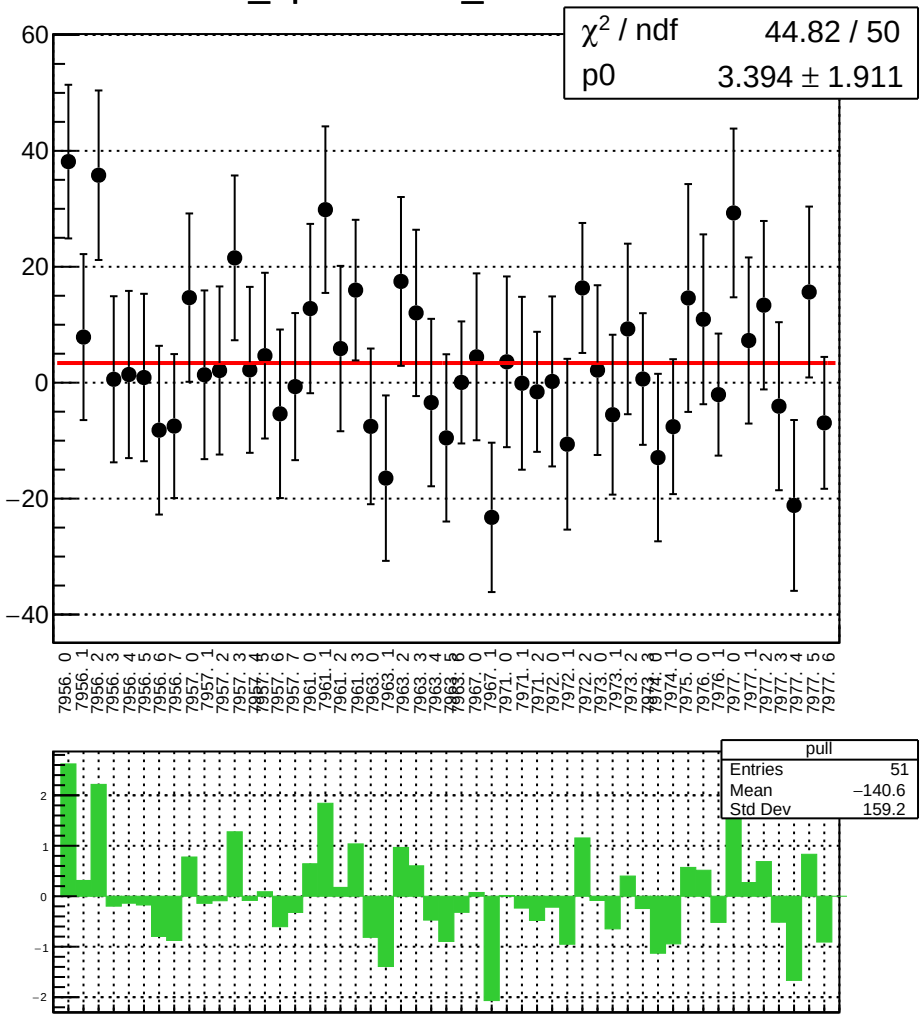
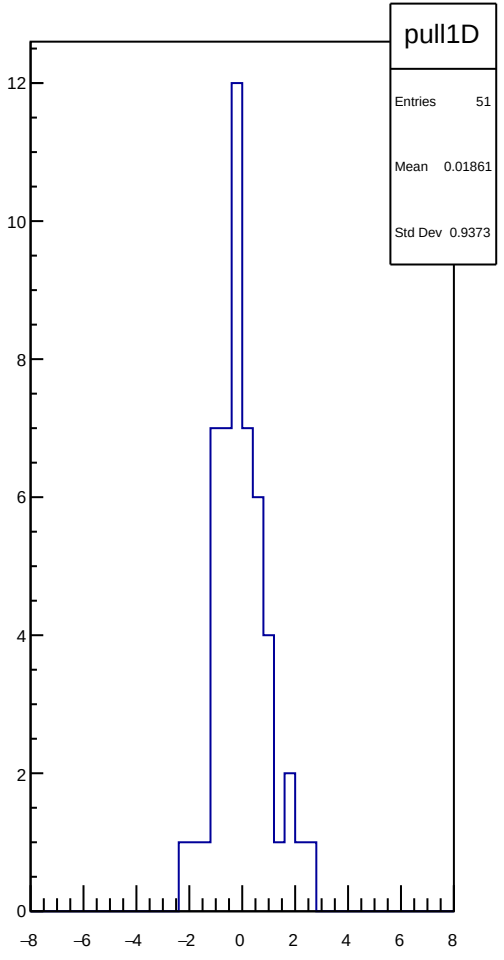
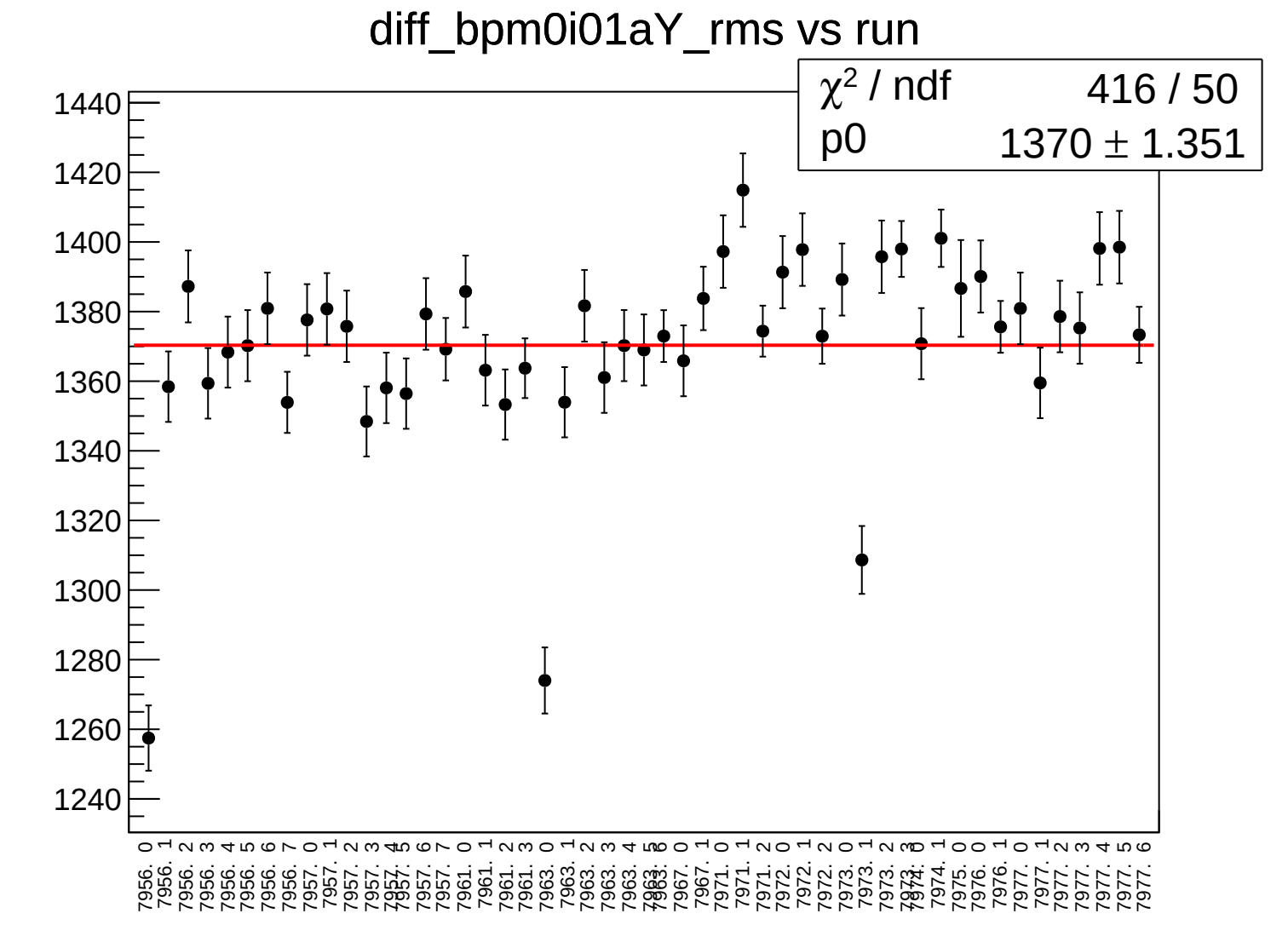
7977. 5
7977. 6


diff_bpm0i01aY_mean vs run
χ^2 / ndf 44.82 / 50
p0 3.394 ± 1.911
pull
Entries 51
Mean −140.6
Std Dev 159.2


pull1D
Entries 51
Mean 0.01861
Std Dev 0.9373


diff_bpm0i01aY_rms vs run
χ² / ndf 416 / 50
p0 1370 ± 1.351
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260
1240
7956. 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
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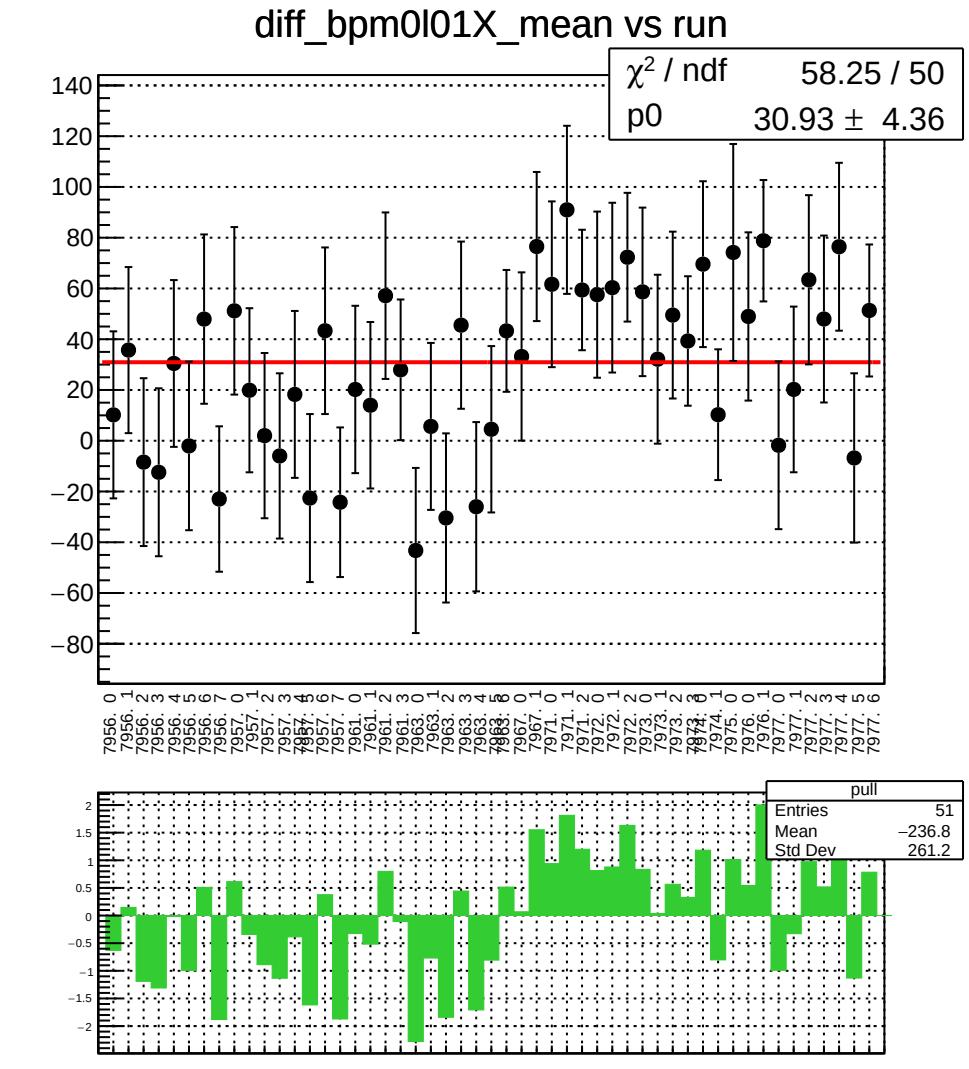
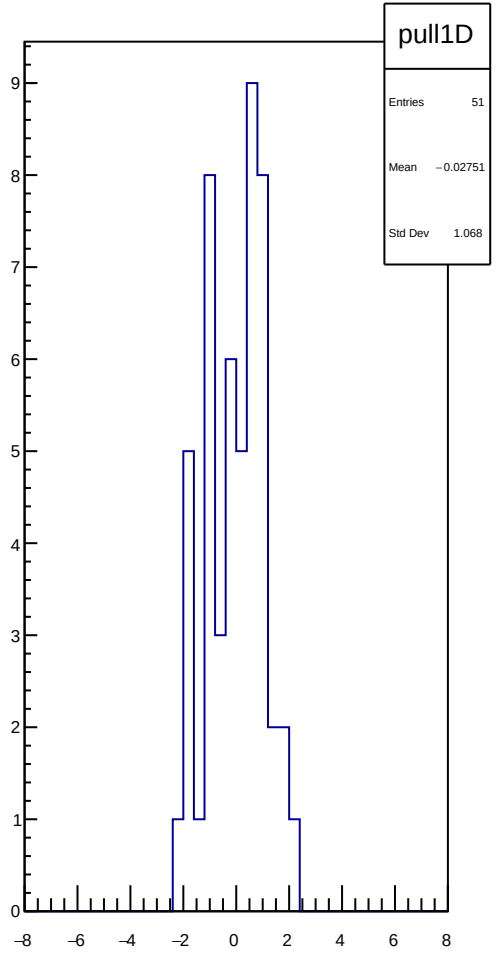
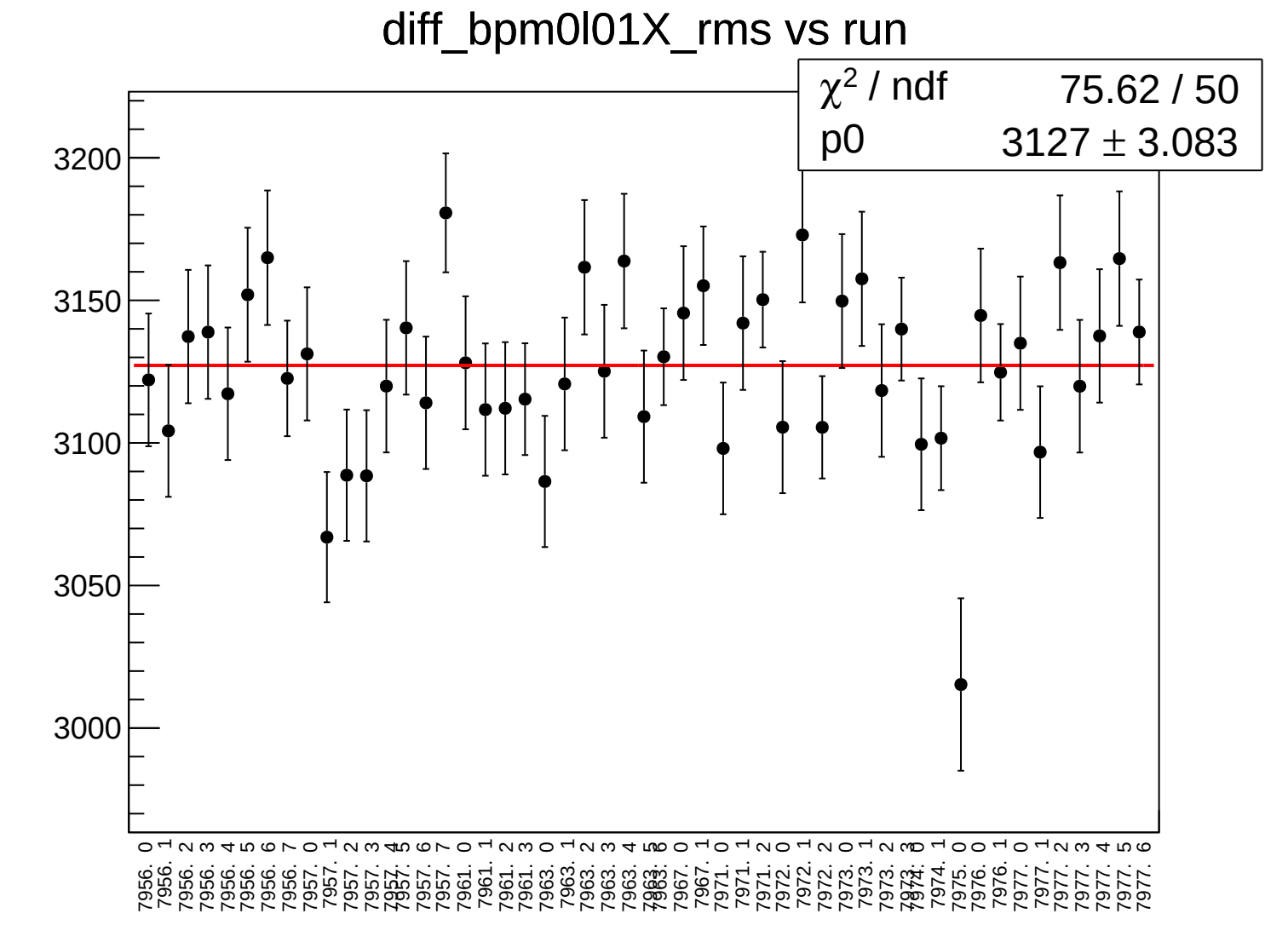
7977. 6


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
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7961. 2
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7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
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7973. 0
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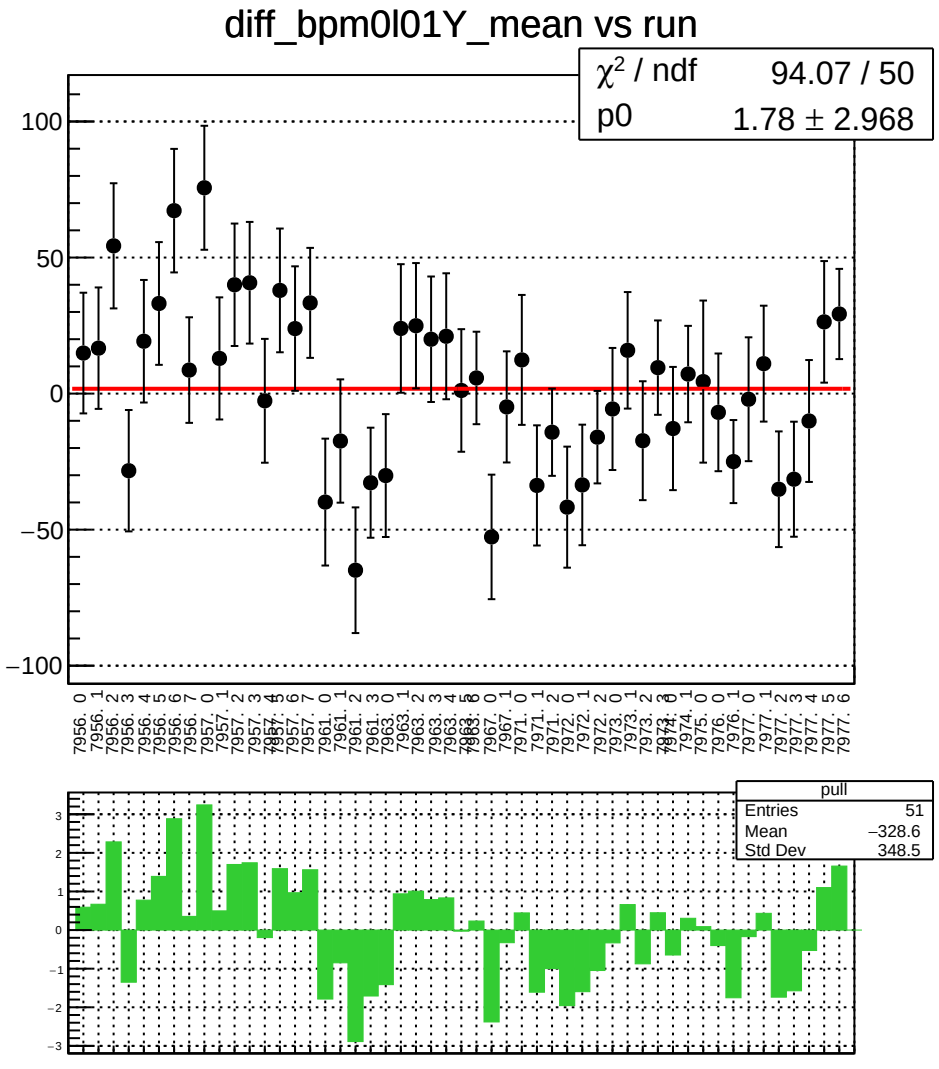
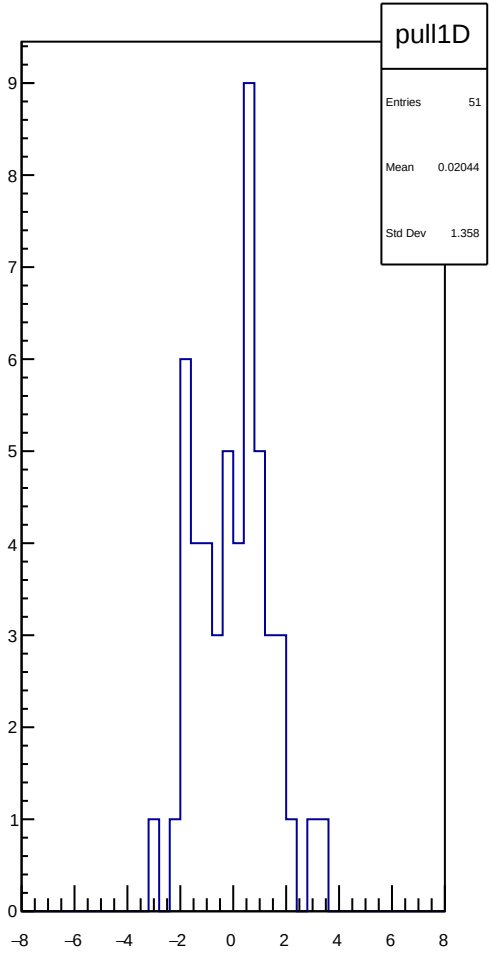
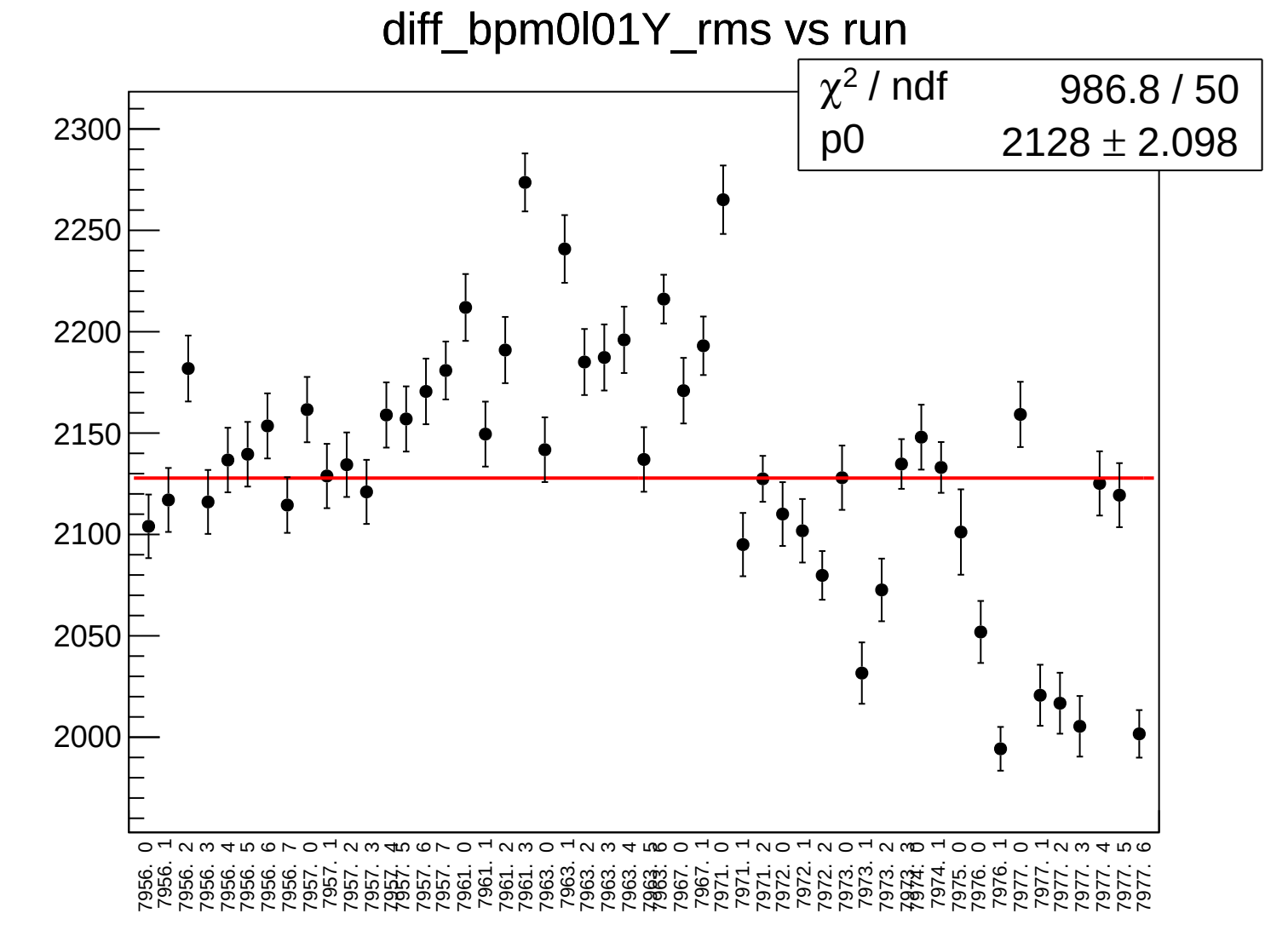

diff_bpm0l01Y_mean vs run
χ² / ndf 94.07 / 50
p0 1.78 ± 2.968
pull
Entries 51
Mean −328.6
Std Dev 348.5


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
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7956. 2
7956. 3
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7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
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7961. 2
7961. 3
7963. 0
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7963. 4
7967. 0
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7971. 0
7971. 1
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7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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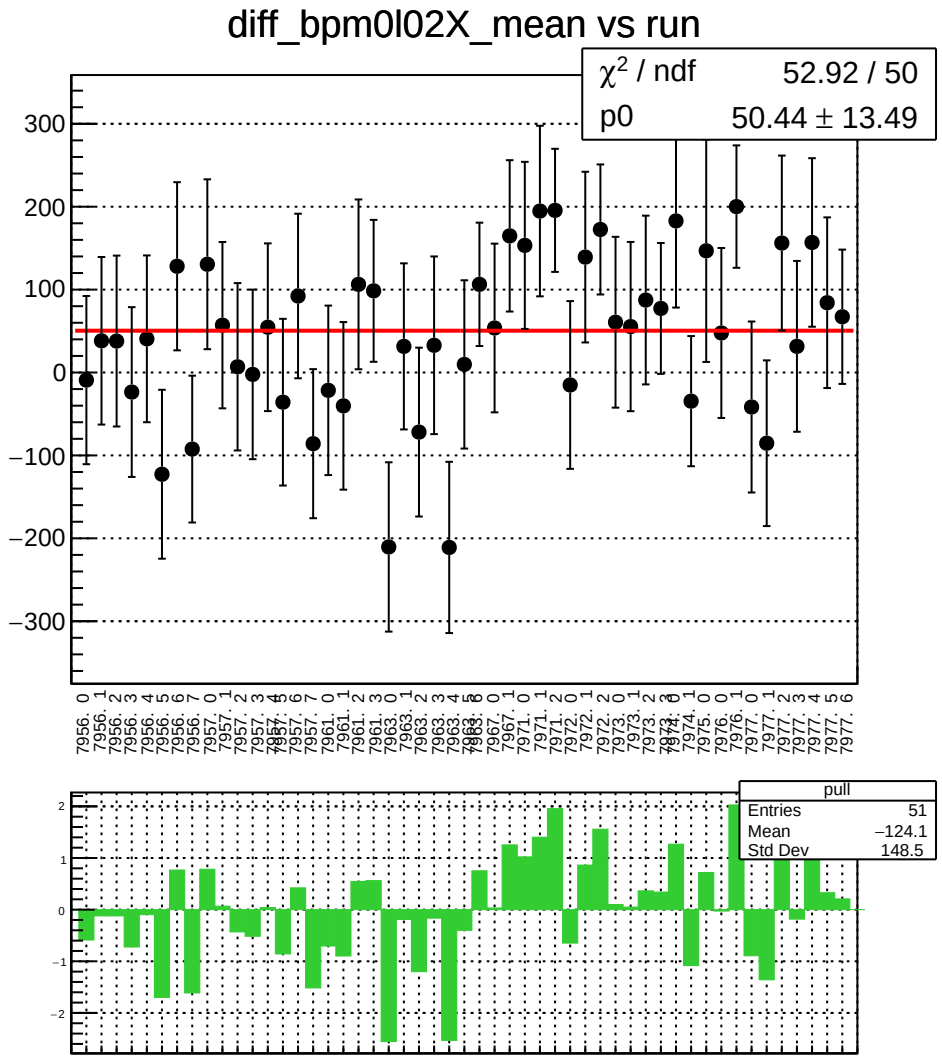
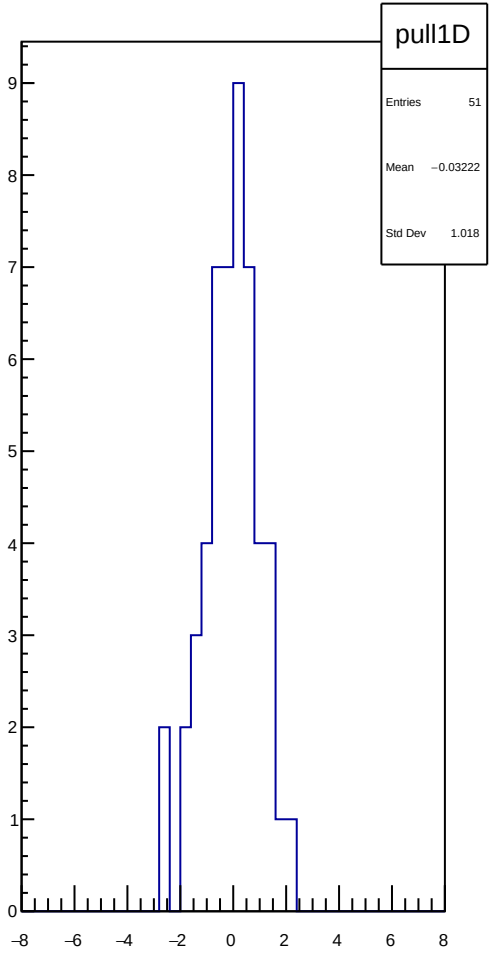
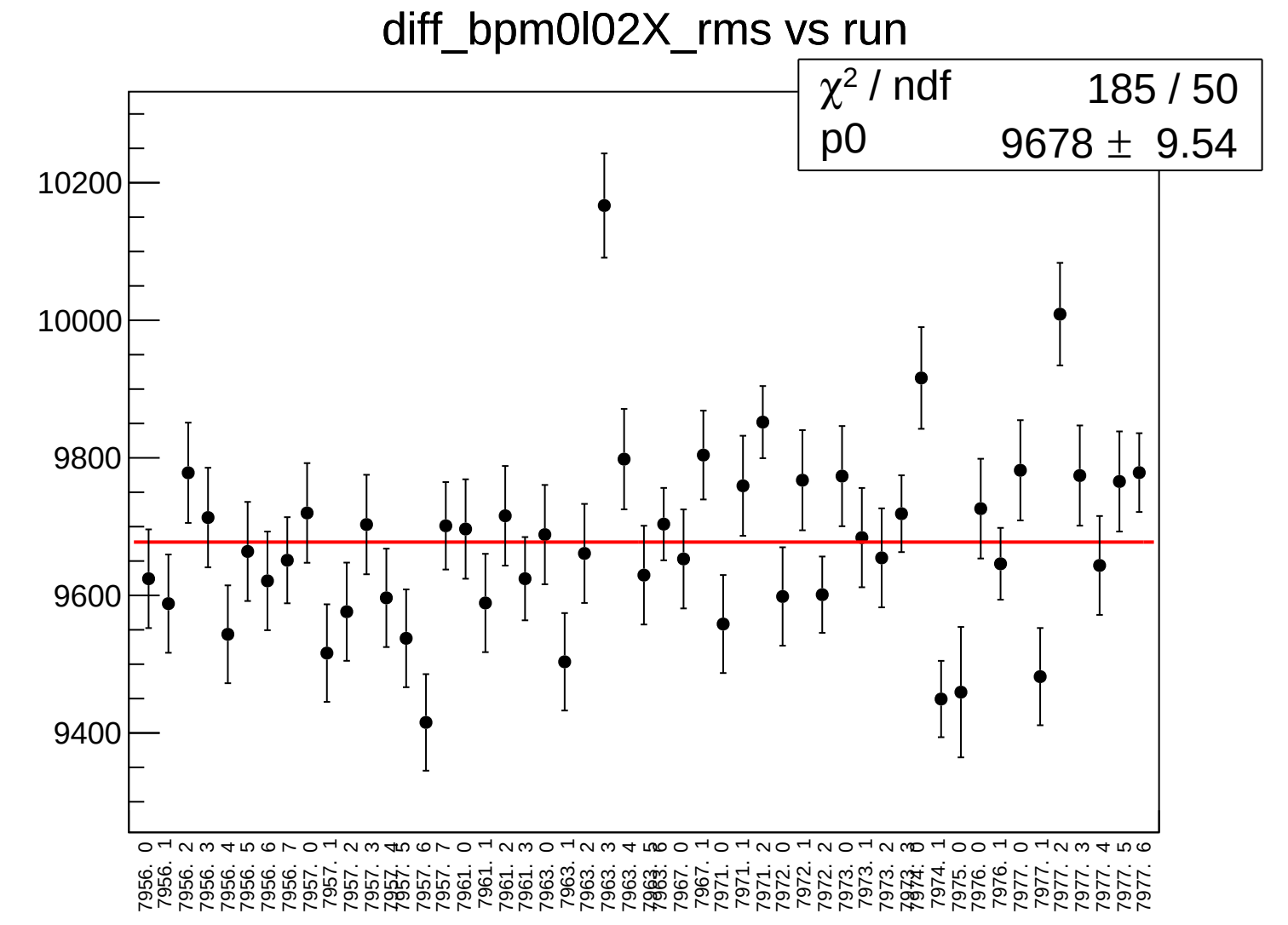

diff_bpm0l02X_mean vs run
χ^2 / ndf 52.92 / 50
p0 50.44 ± 13.49
pull
Entries 51
Mean −124.1
Std Dev 148.5


pull1D
Entries 51
Mean −0.03222
Std Dev 1.018


diff_bpm0l02X_rms vs run
χ² / ndf 185 / 50
p0 9678 ± 9.54
10200
10000
9800
9600
9400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
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7963. 4
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7972. 0
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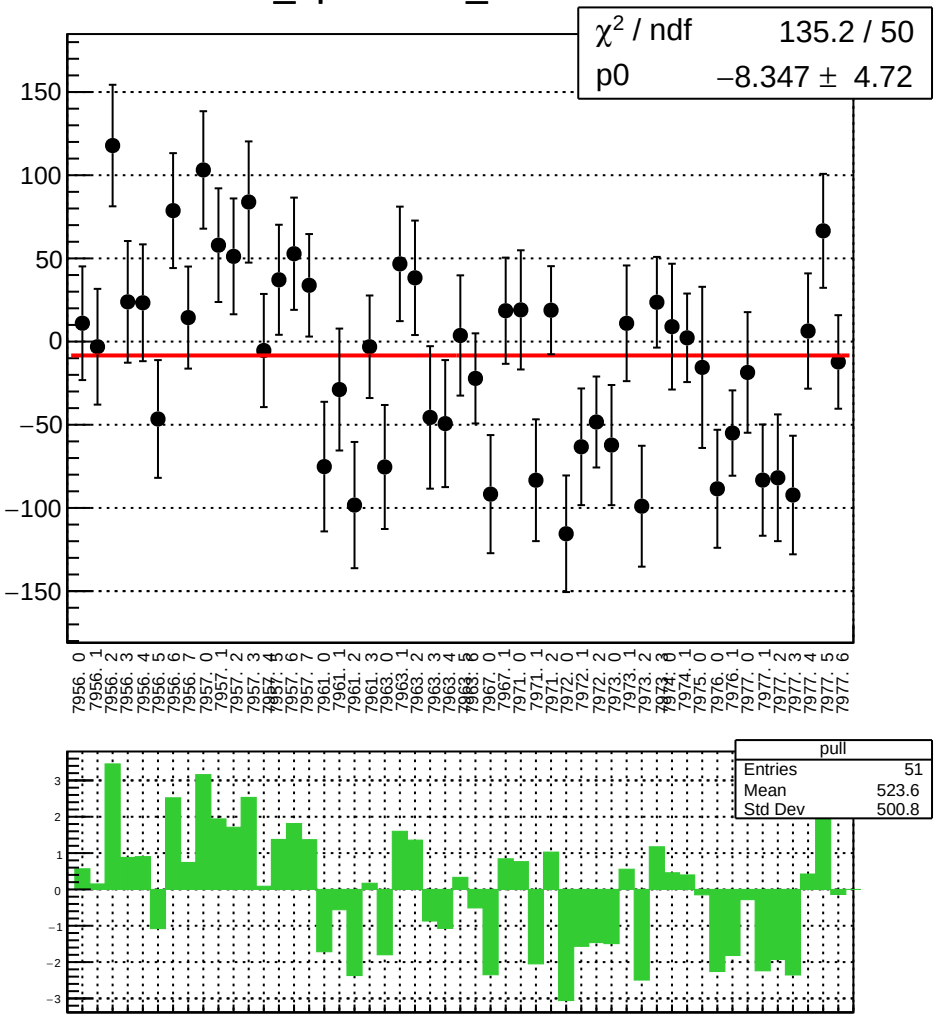
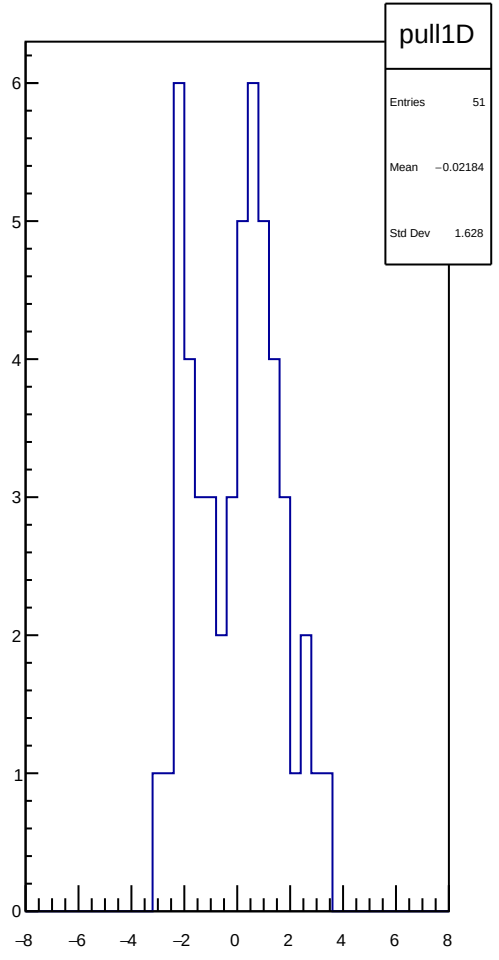
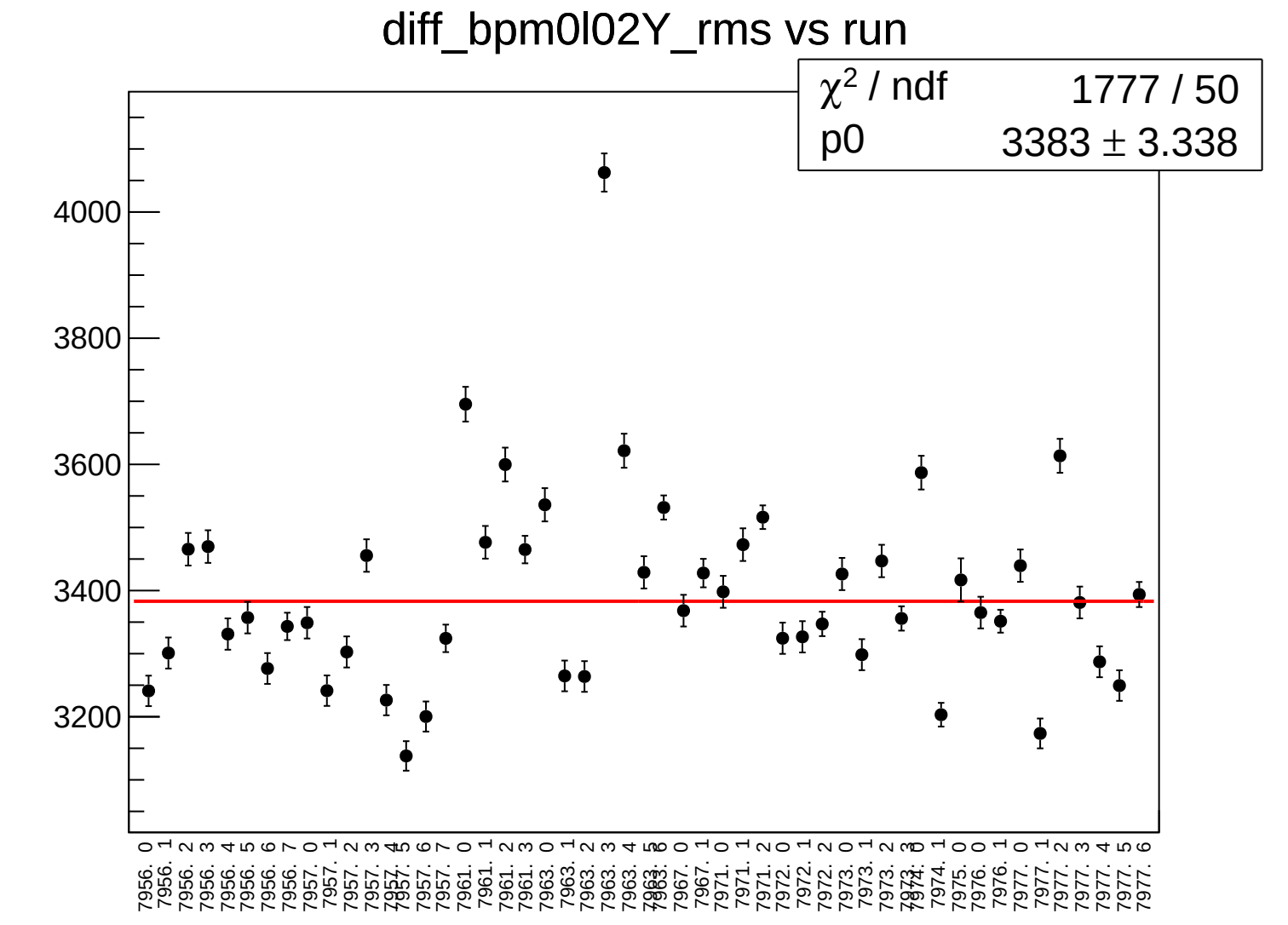

diff_bpm0l02Y_mean vs run
χ² / ndf 135.2 / 50
p0 −8.347 ± 4.72
pull
Entries 51
Mean 523.6
Std Dev 500.8


pull1D
Entries 51
Mean −0.02184
Std Dev 1.628


diff_bpm0l02Y_rms vs run
χ² / ndf 1777 / 50
p0 3383 ± 3.338
4000
3800
3600
3400
3200
7956. 0
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7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
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7957. 6
7957. 7
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7961. 2
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7963. 0
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7963. 4
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7971. 1
7971. 2
7972. 0
7972. 1
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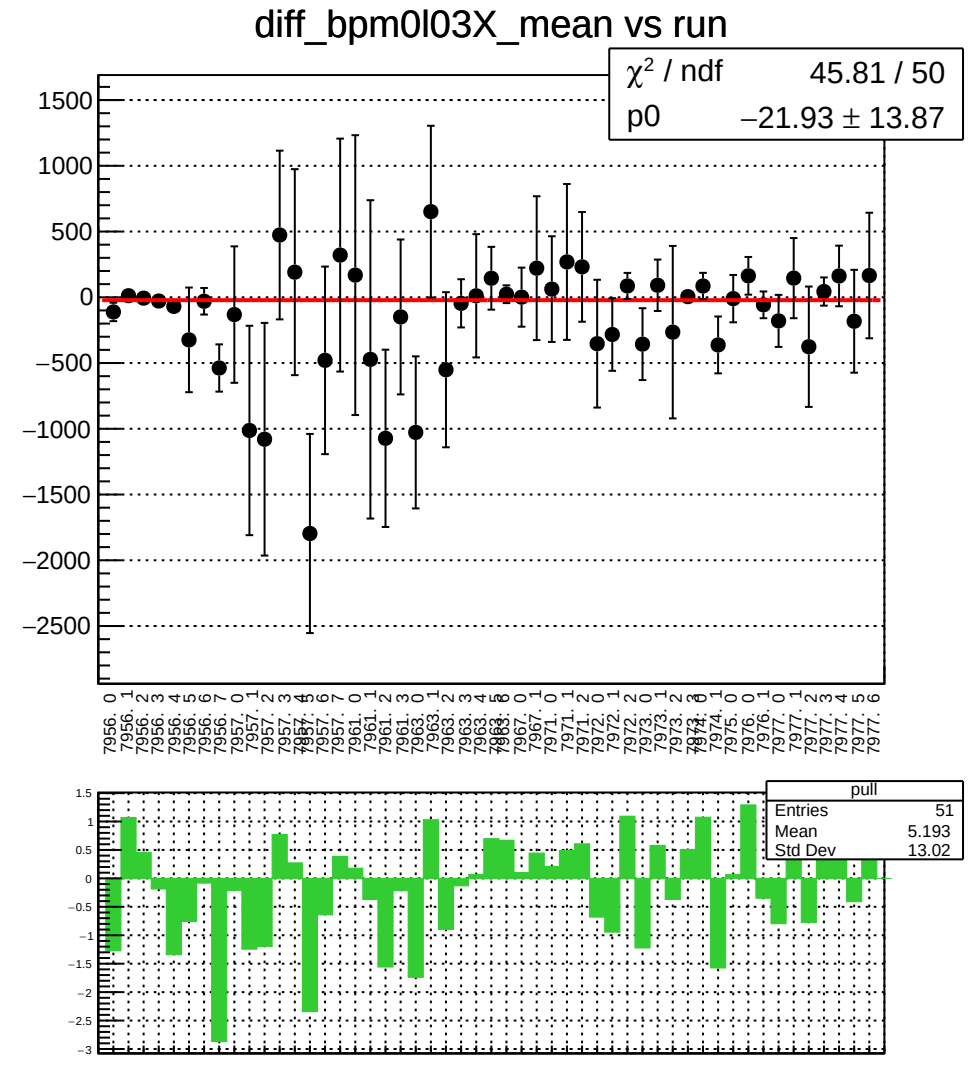
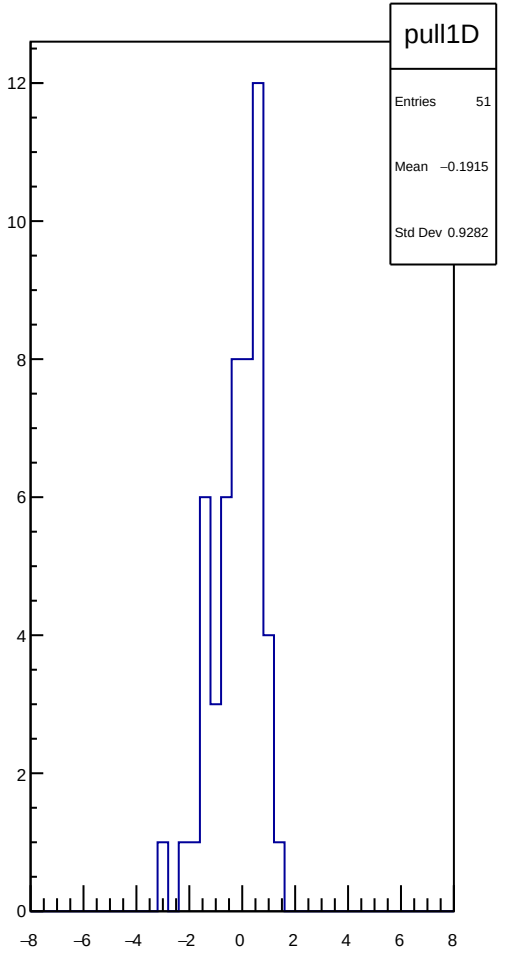
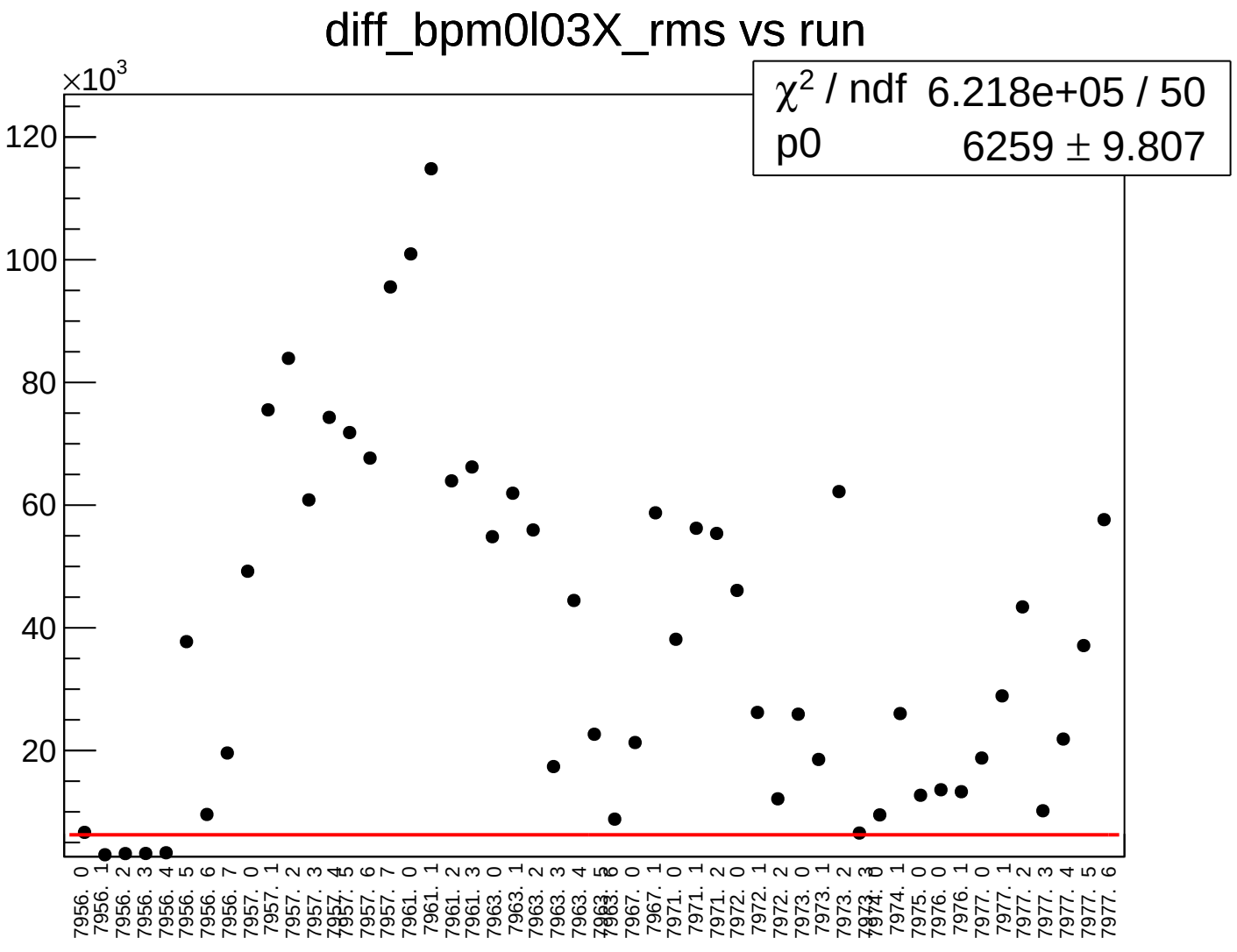

diff_bpm0l03X_mean vs run
χ² / ndf 45.81 / 50
p0 −21.93 ± 13.87
pull
Entries 51
Mean 5.193
Std Dev 13.02


pull1D
Entries 51
Mean −0.1915
Std Dev 0.9282


diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 6.218e+05 / 50
p0 6259 ± 9.807
120
100
80
60
40
20
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7956. 3
7956. 4
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7956. 6
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7957. 7
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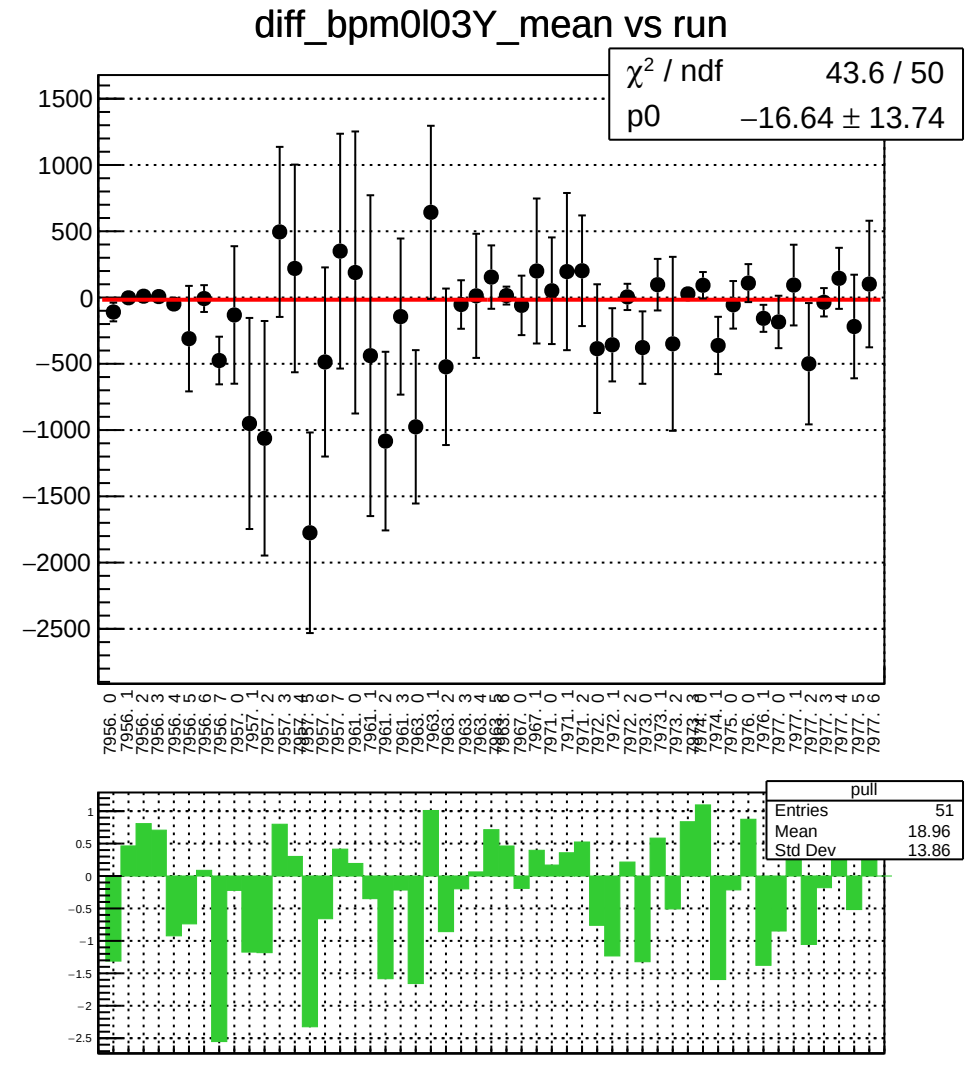
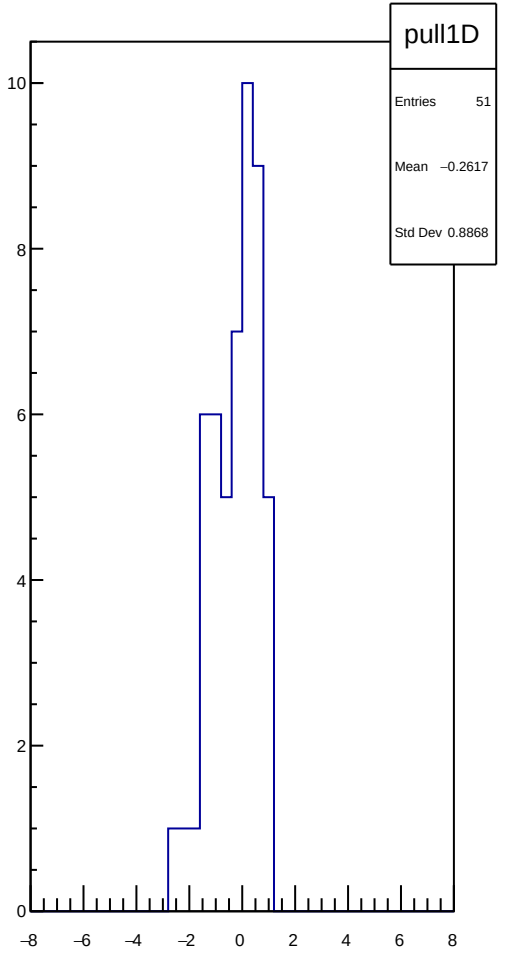
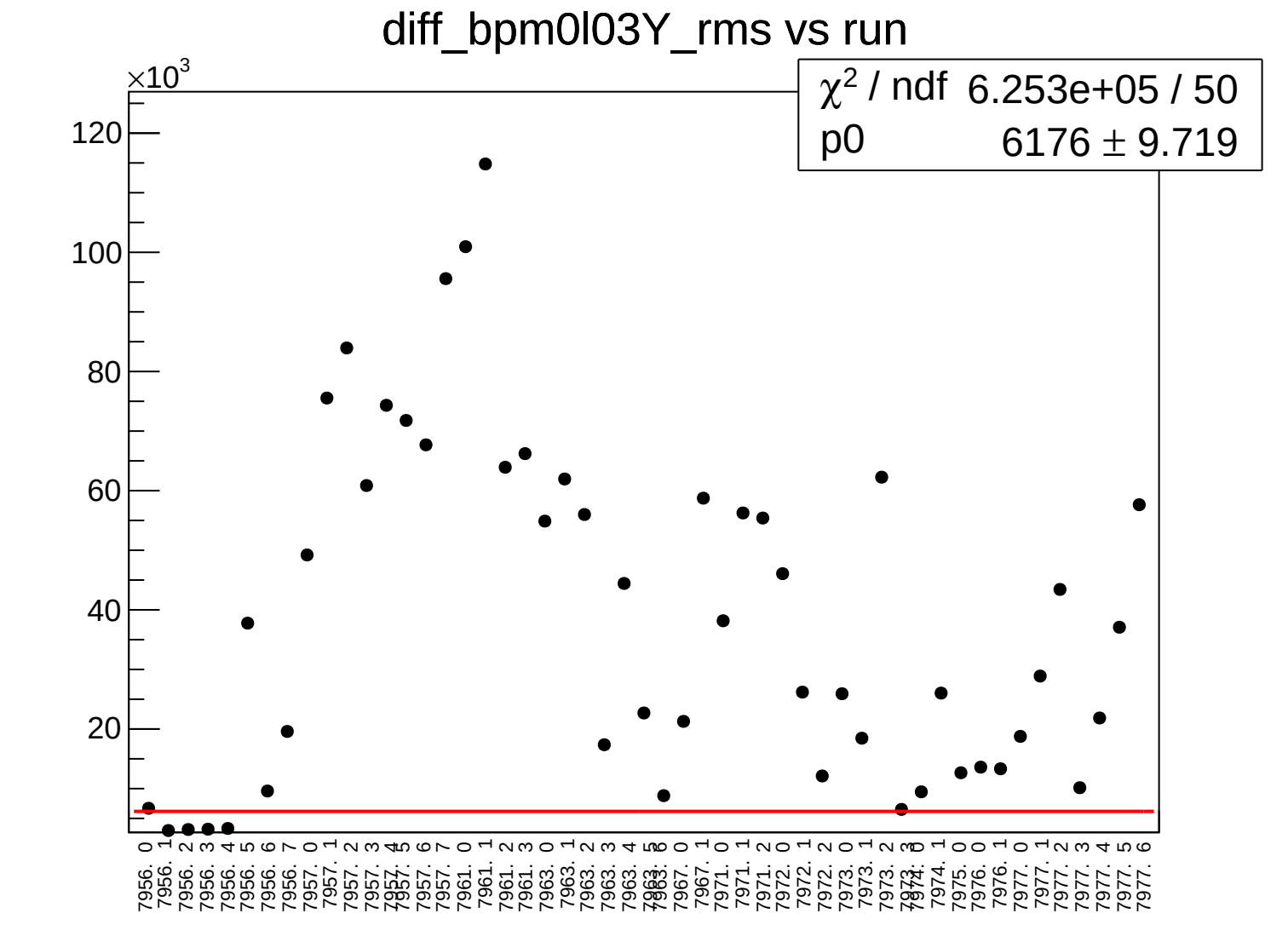
7977. 6


diff_bpm0l03Y_mean vs run
χ² / ndf 43.6 / 50
p0 −16.64 ± 13.74
pull
Entries 51
Mean 18.96
Std Dev 13.86


pull1D
Entries 51
Mean −0.2617
Std Dev 0.8868


diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 6.253e+05 / 50
p0 6176 ± 9.719
120
100
80
60
40
20
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7956. 2
7956. 3
7956. 4
7956. 5
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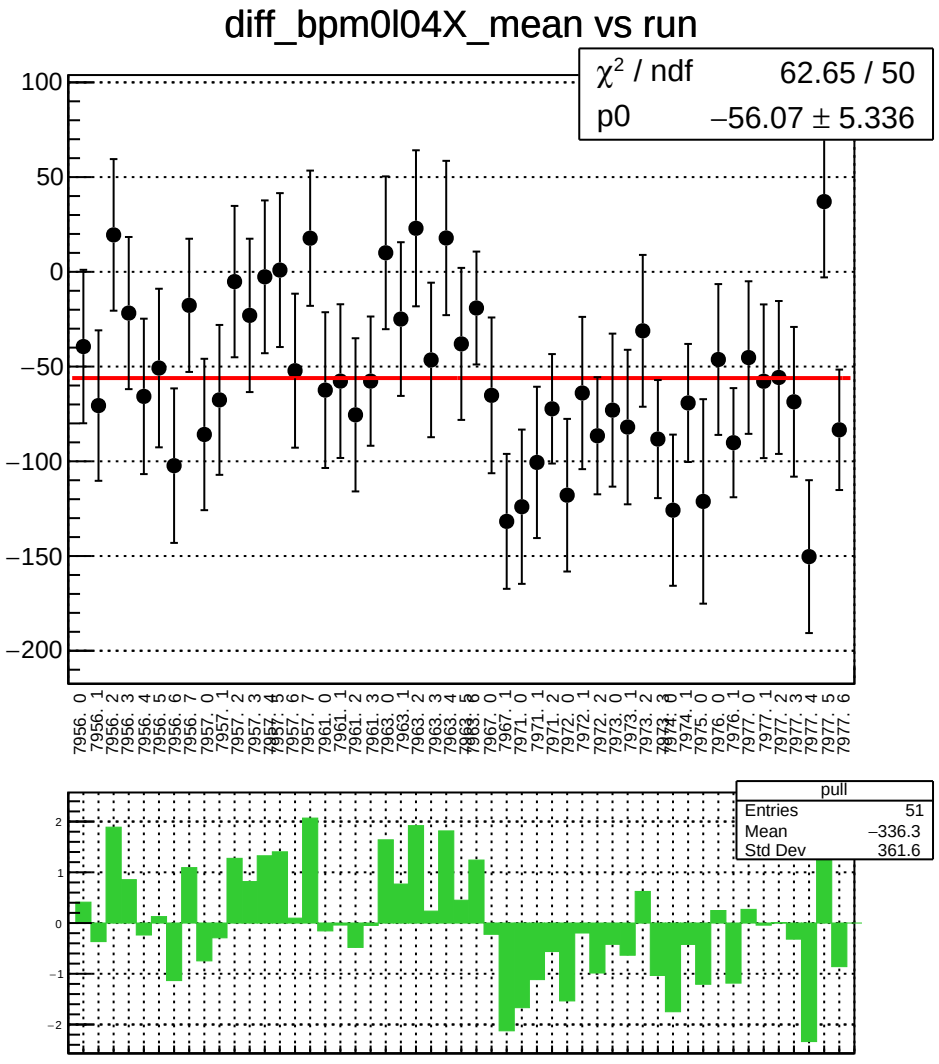
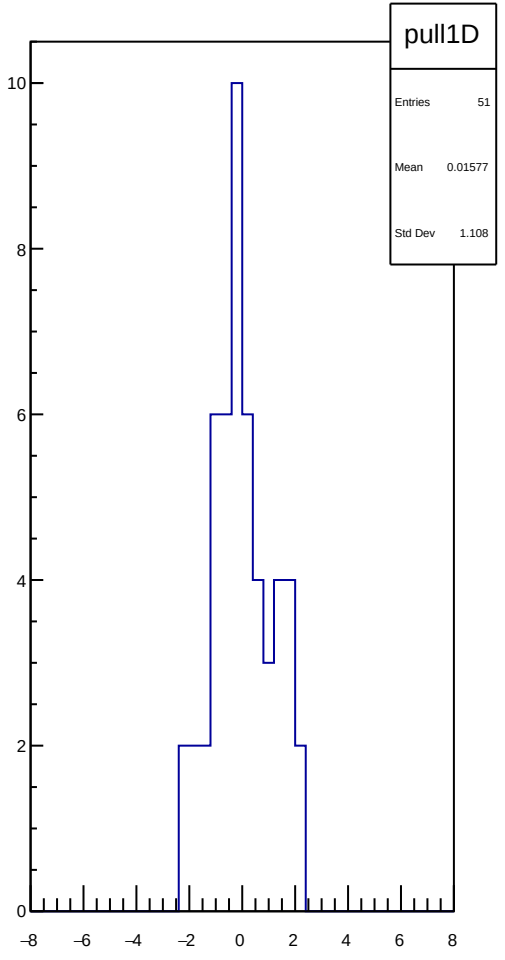
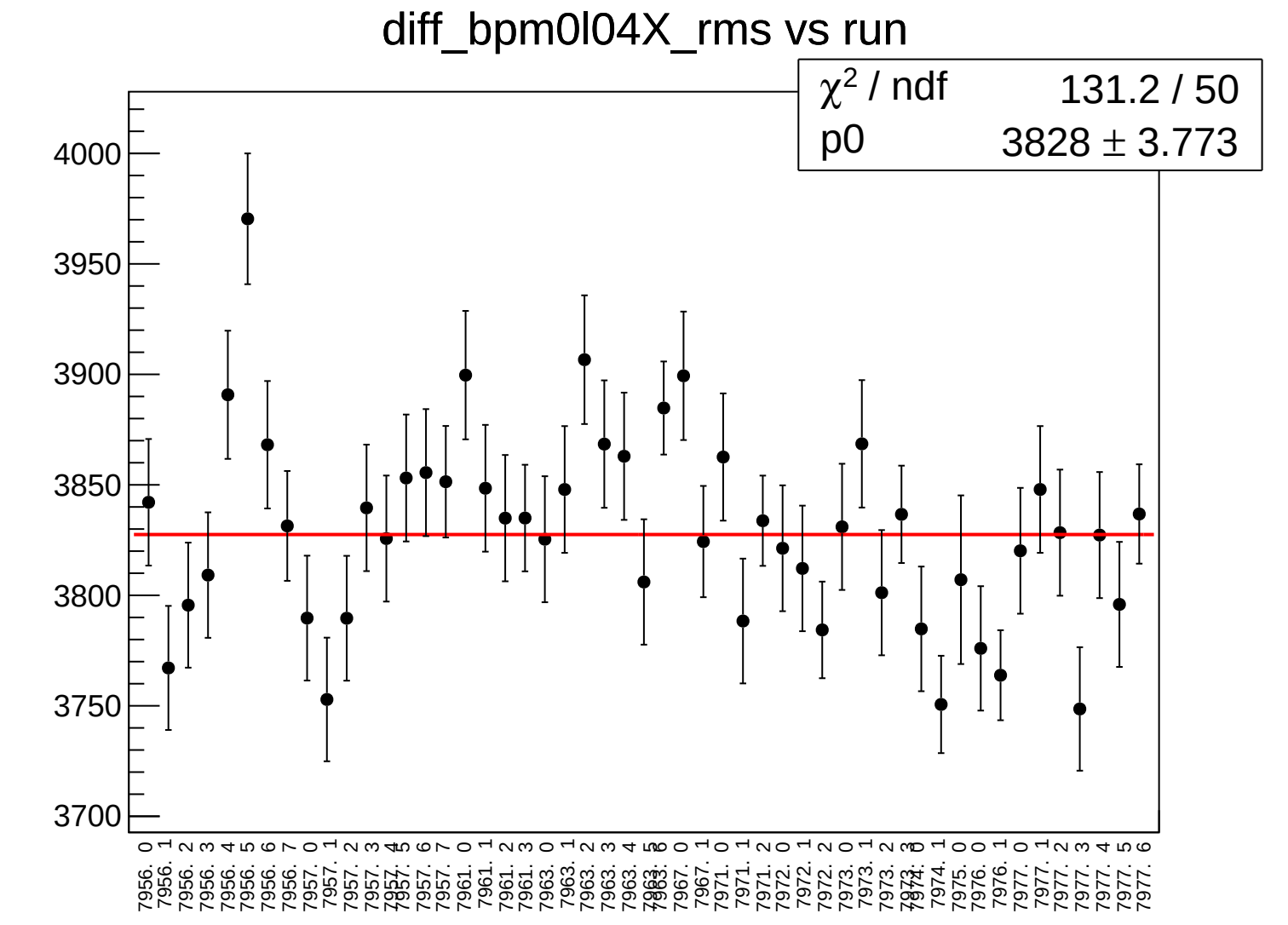
7977. 6


diff_bpm0l04X_mean vs run
χ^2 / ndf 62.65 / 50
p0 −56.07 ± 5.336
pull
Entries 51
Mean −336.3
Std Dev 361.6


pull1D
Entries 51
Mean 0.01577
Std Dev 1.108


diff_bpm0l04X_rms vs run
χ² / ndf 131.2 / 50
p0 3828 ± 3.773
4000
3950
3900
3850
3800
3750
3700
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
7961. 0
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7963. 0
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7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
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7972. 1
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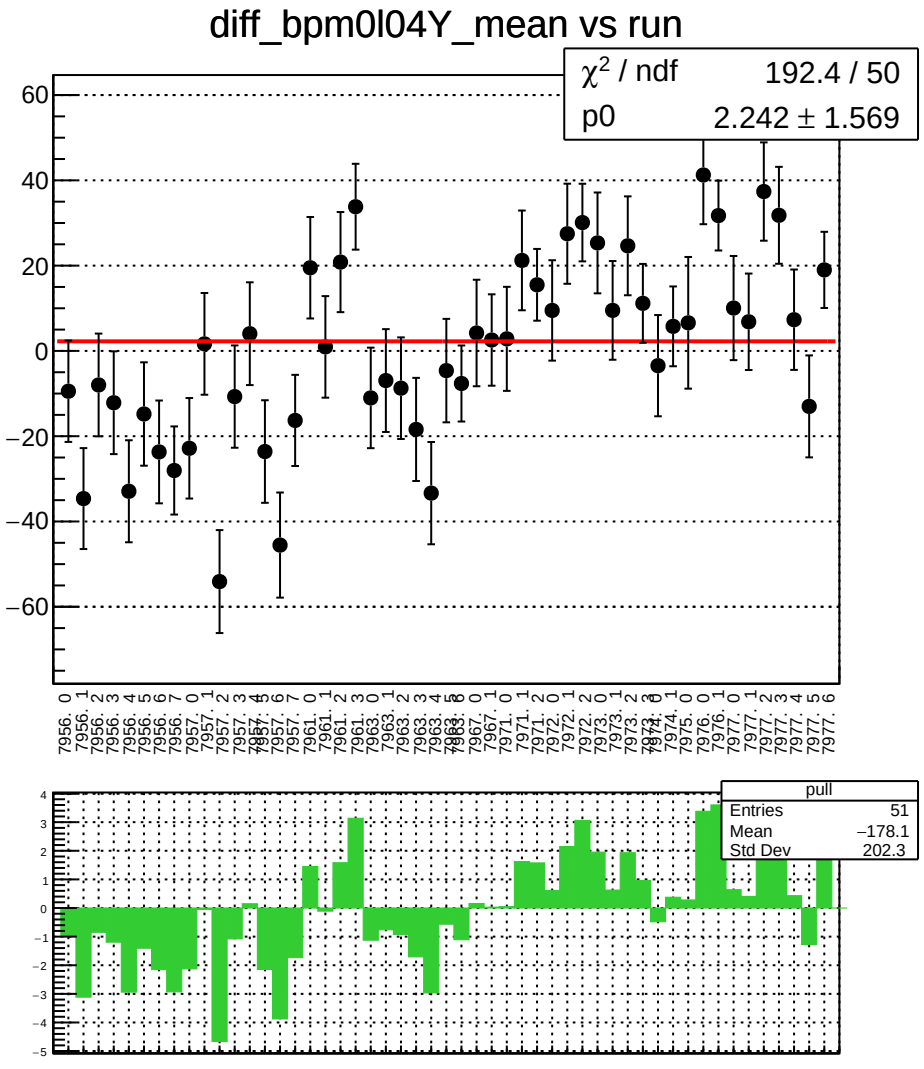
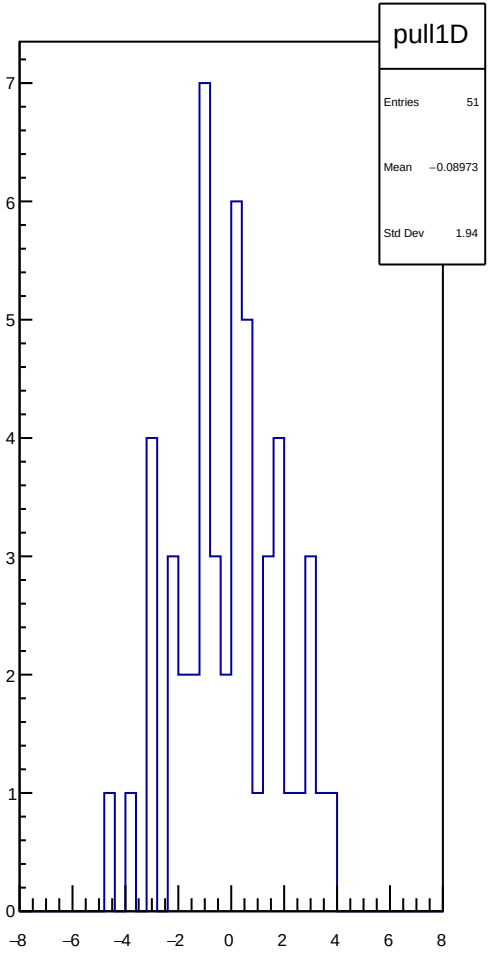
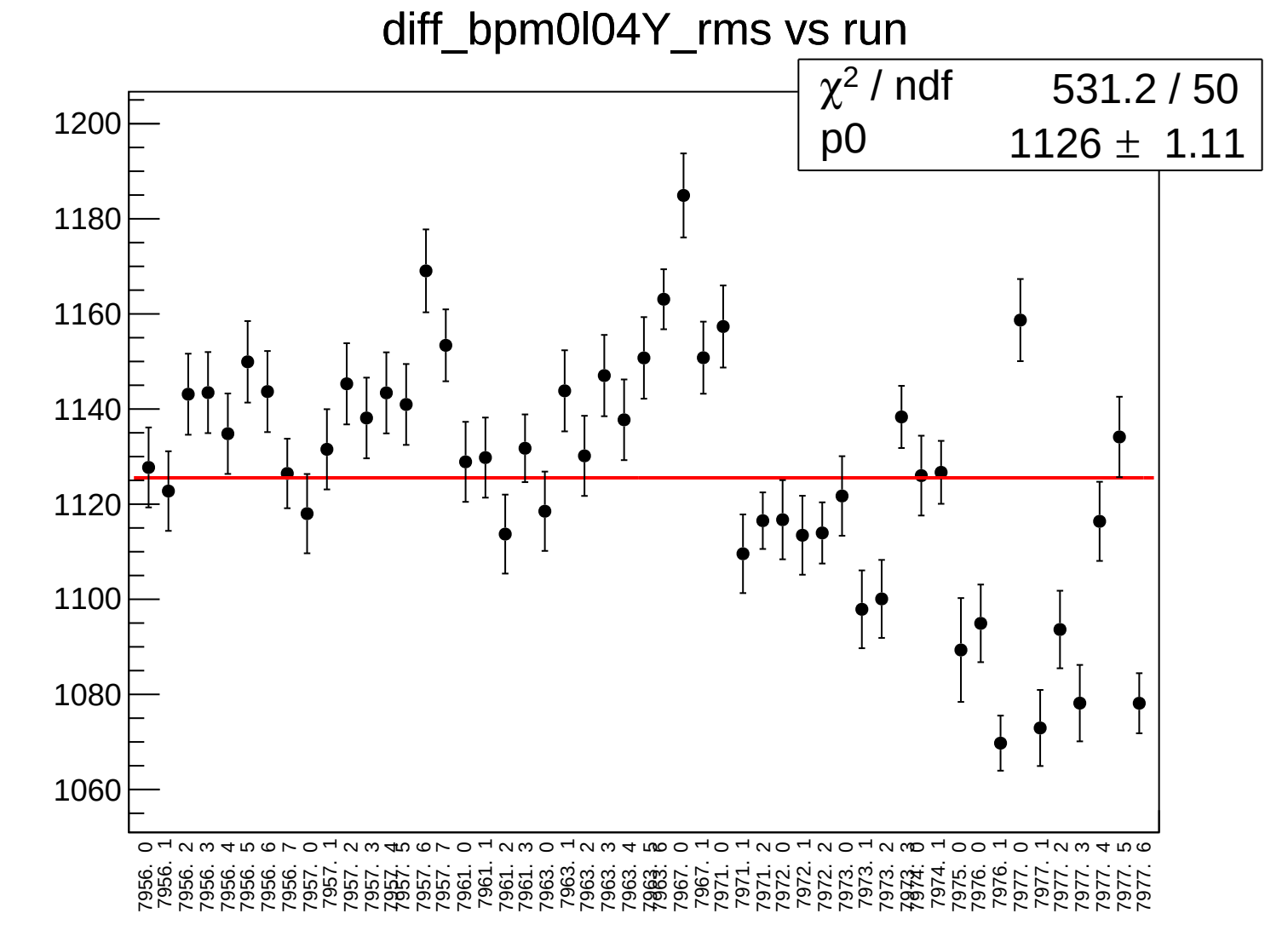

diff_bpm0l04Y_mean vs run
χ² / ndf 192.4 / 50
p0 2.242 ± 1.569
pull
Entries 51
Mean −178.1
Std Dev 202.3


pull1D
Entries 51
Mean −0.08973
Std Dev 1.94


diff_bpm0l04Y_rms vs run
χ² / ndf 531.2 / 50
p0 1126 ± 1.11
1200
1180
1160
1140
1120
1100
1080
1060
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
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7957. 2
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7963. 0
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7967. 1
7971. 0
7971. 1
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7972. 0
7972. 1
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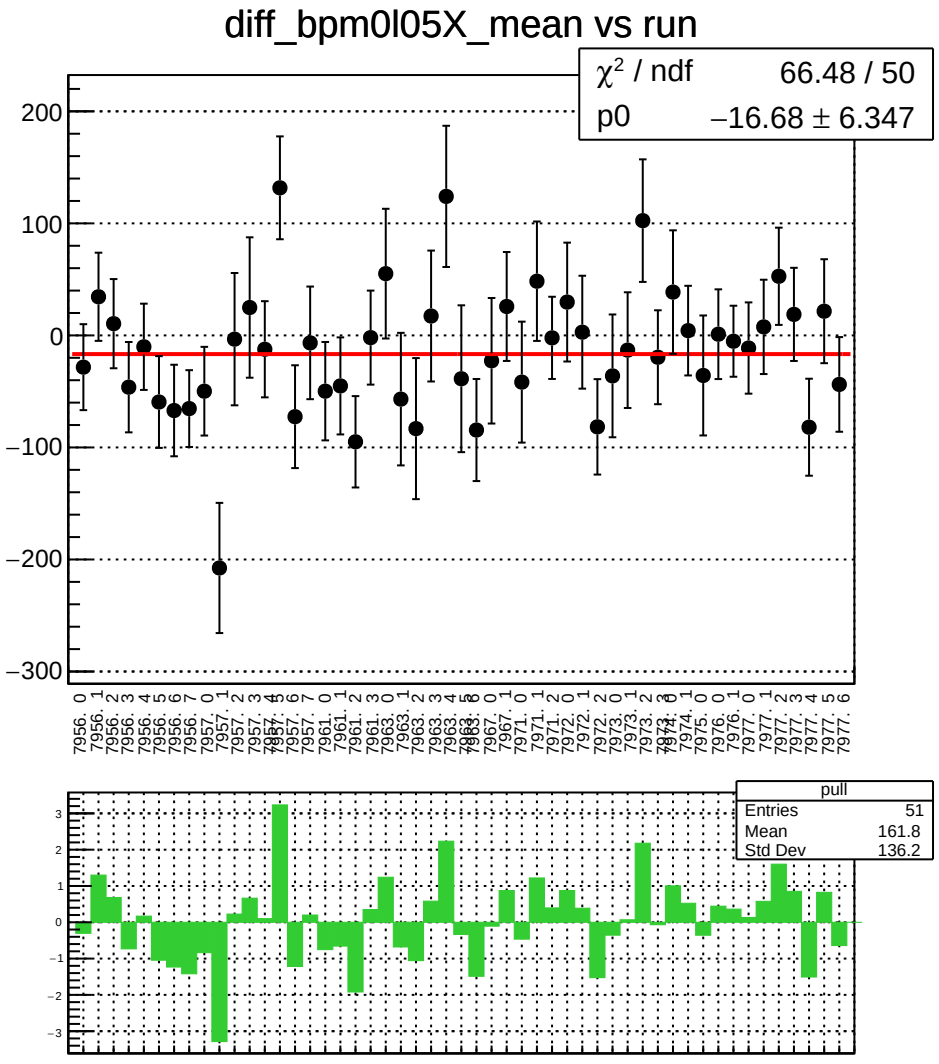
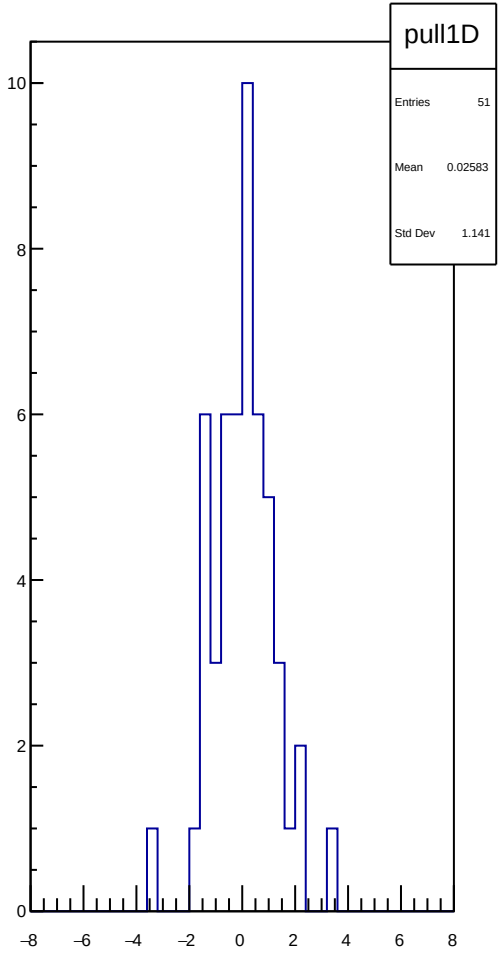
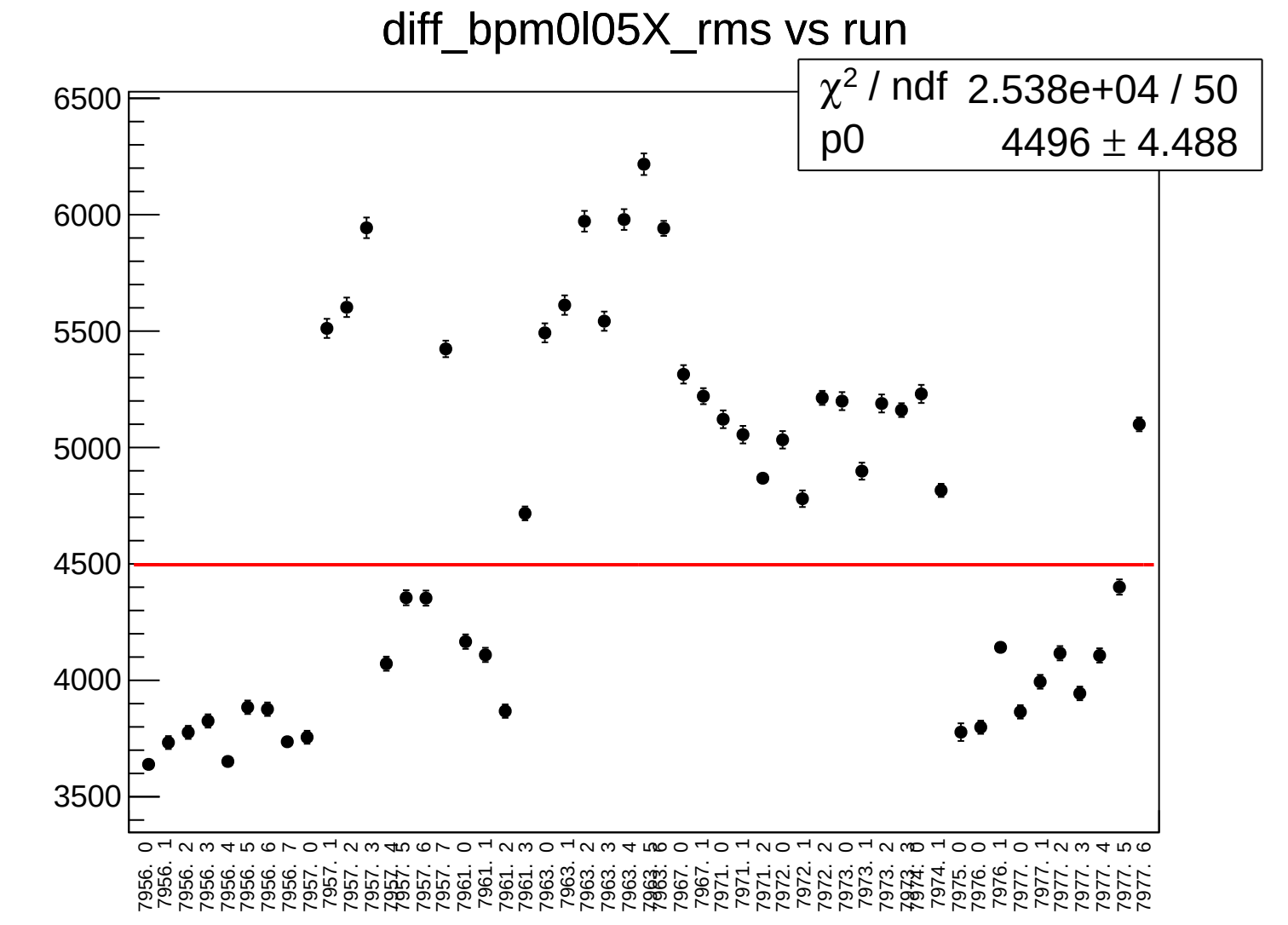
7977. 6


diff_bpm0l05X_mean vs run
χ² / ndf 66.48 / 50
p0 −16.68 ± 6.347
pull
Entries 51
Mean 161.8
Std Dev 136.2


pull1D
Entries 51
Mean 0.02583
Std Dev 1.141


diff_bpm0l05X_rms vs run
χ² / ndf 2.538e+04 / 50
p0 4496 ± 4.488
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
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7957. 2
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7963. 0
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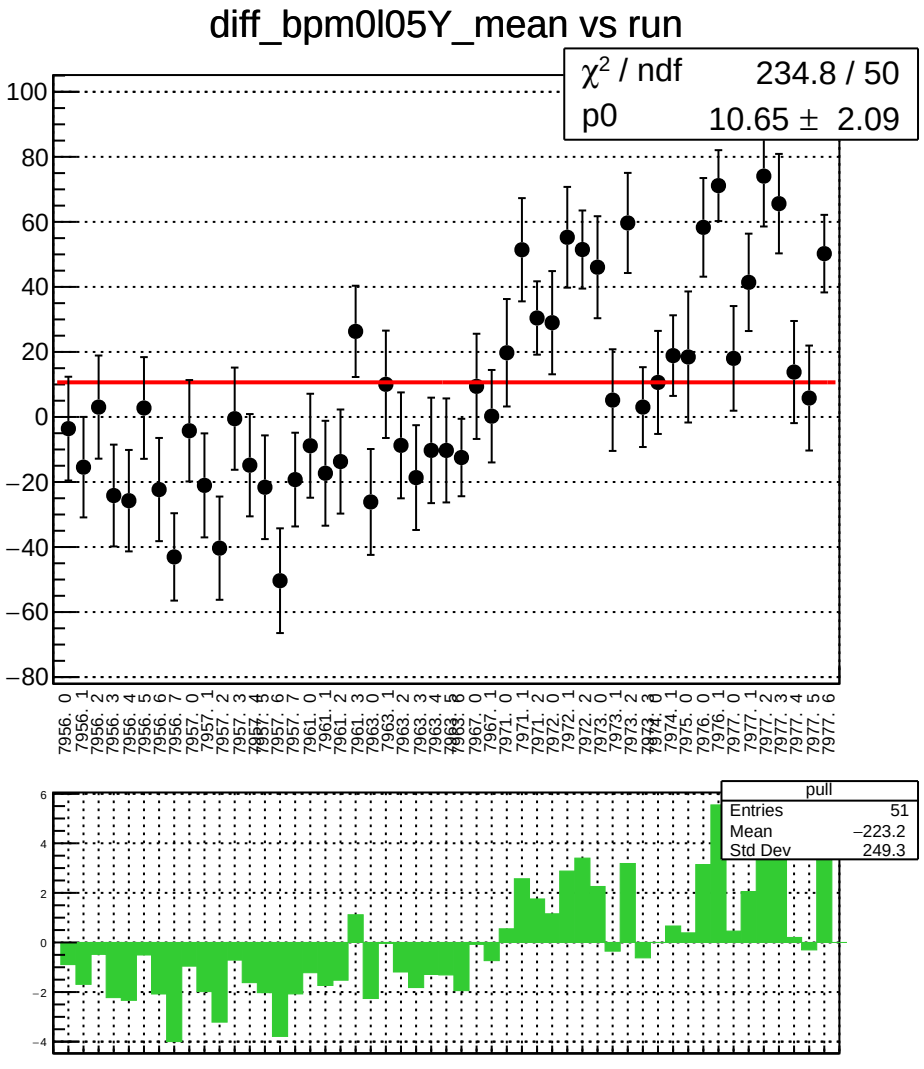
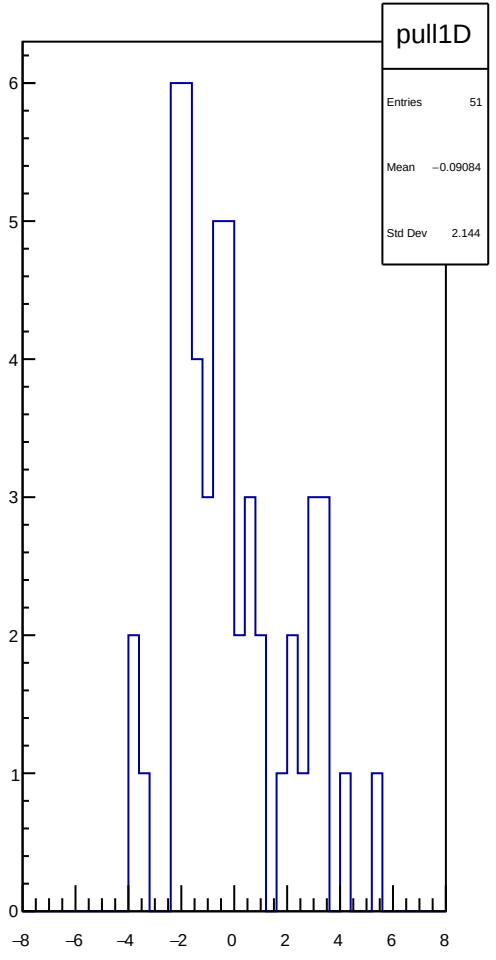
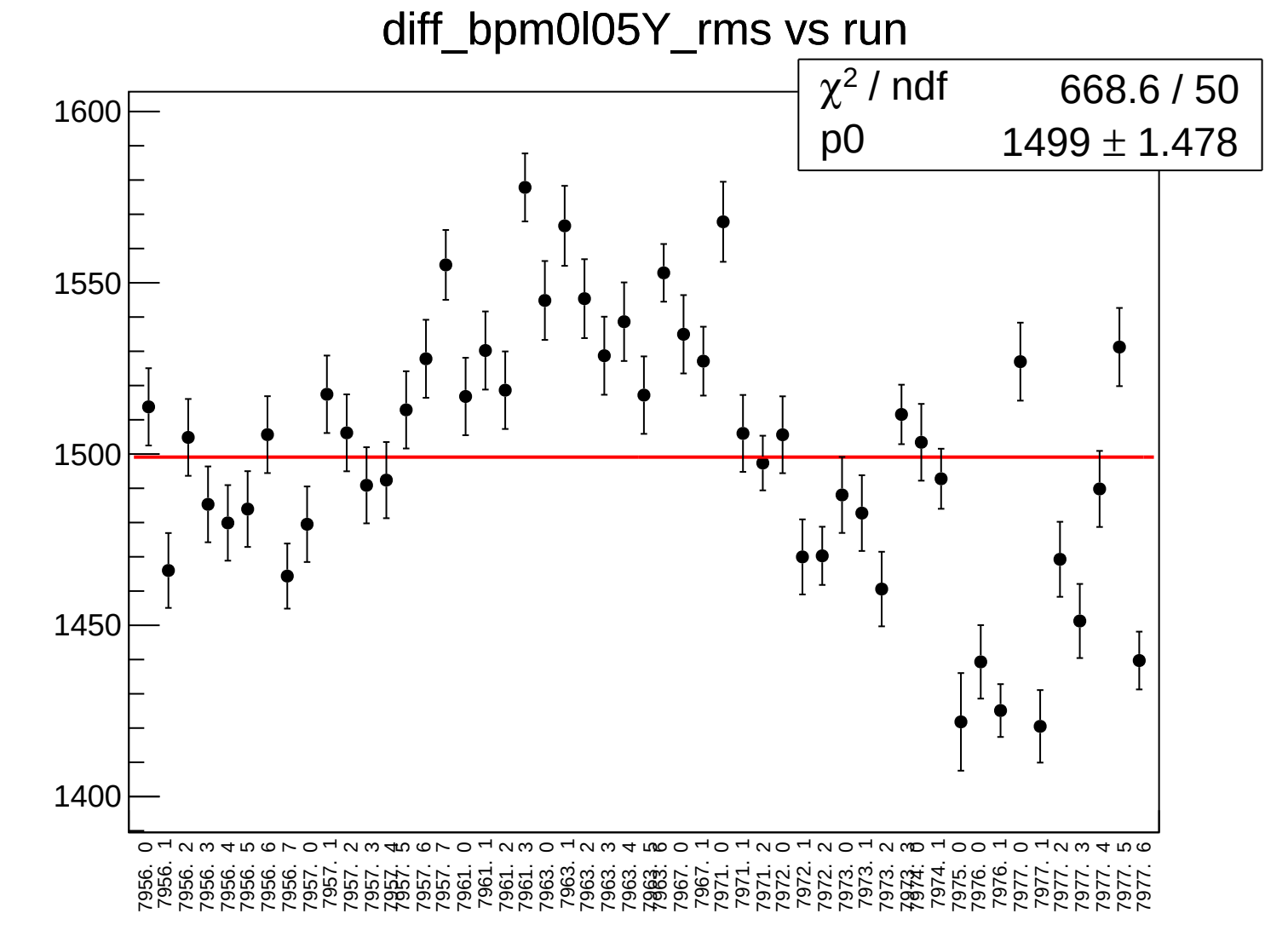
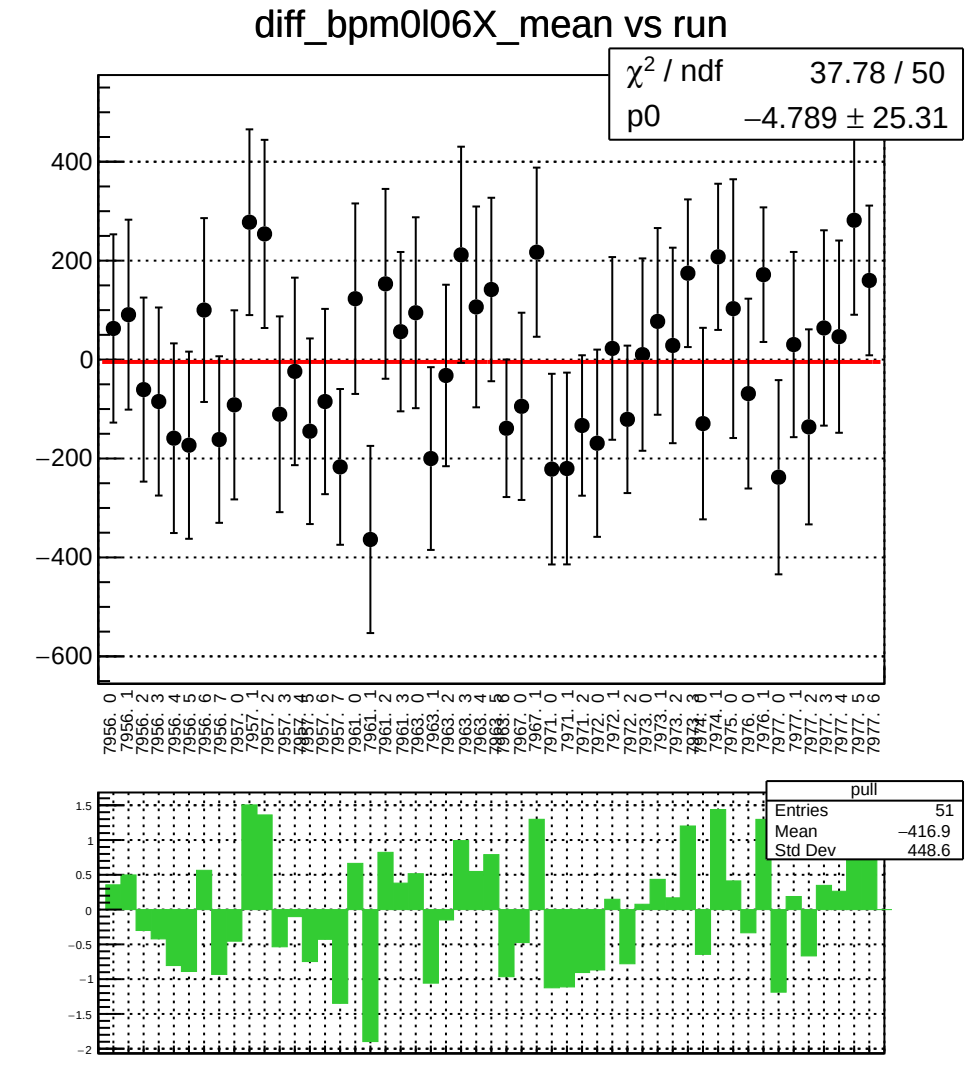
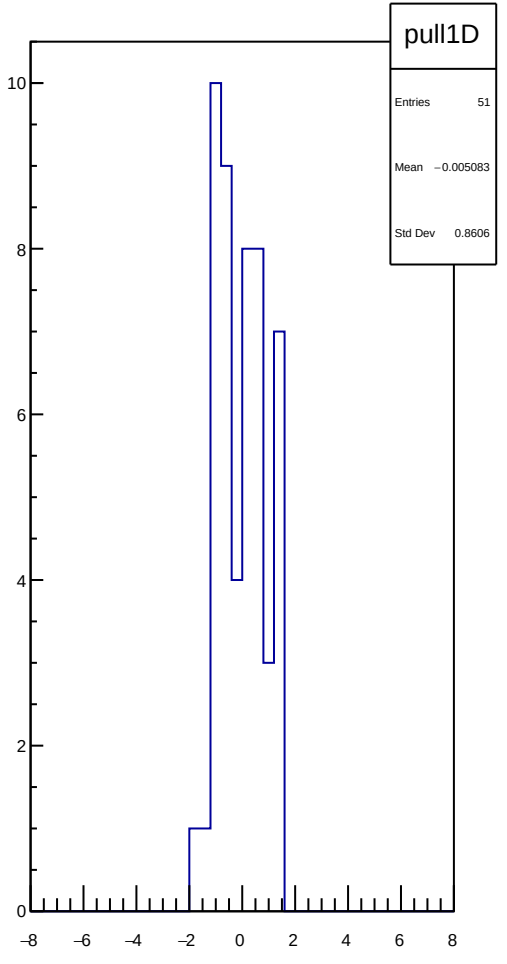
7977. 5
7977. 6

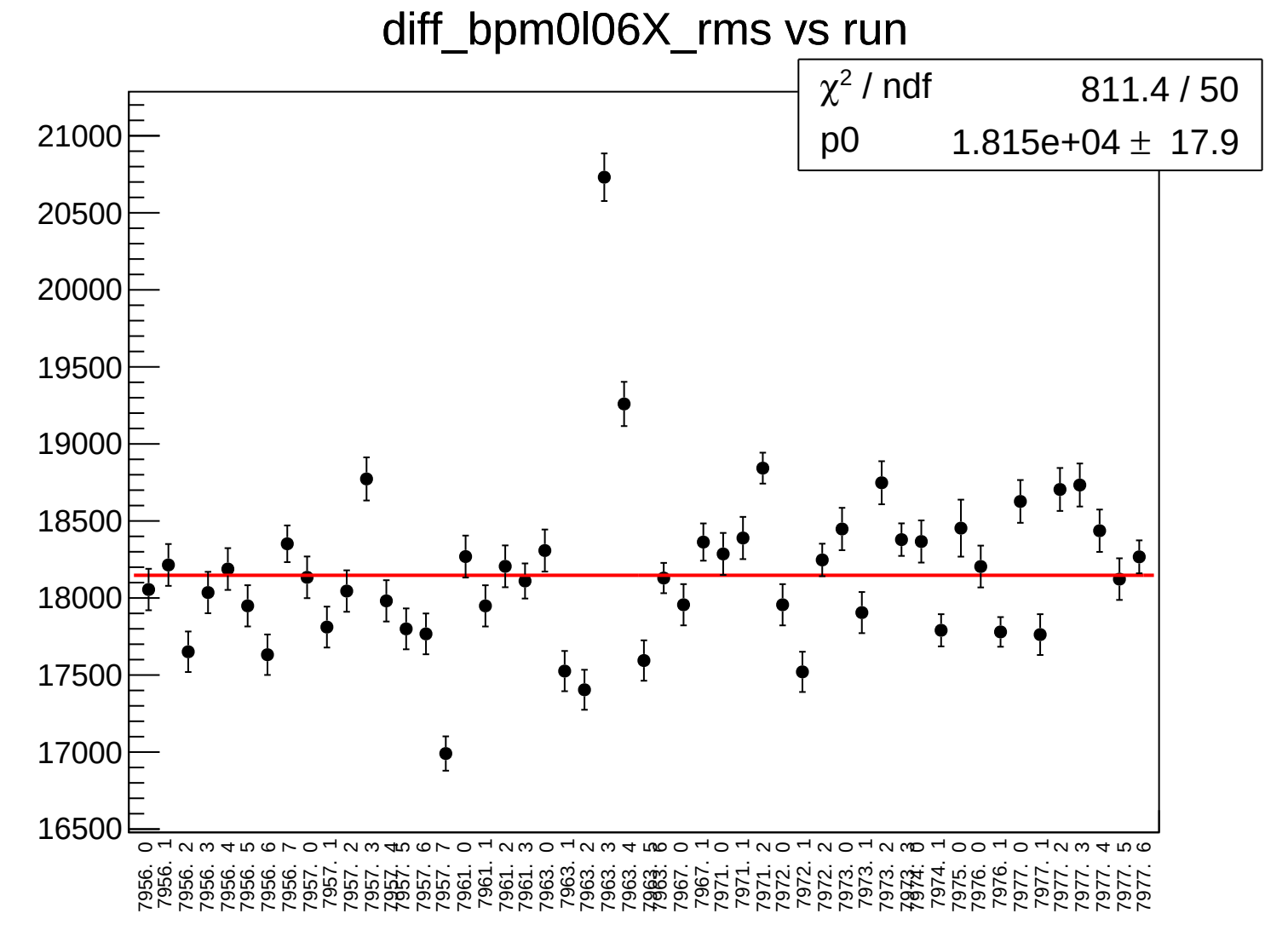

diff_bpm0l05Y_mean vs run
χ² / ndf 234.8 / 50
p0 10.65 ± 2.09
pull
Entries 51
Mean −223.2
Std Dev 249.3

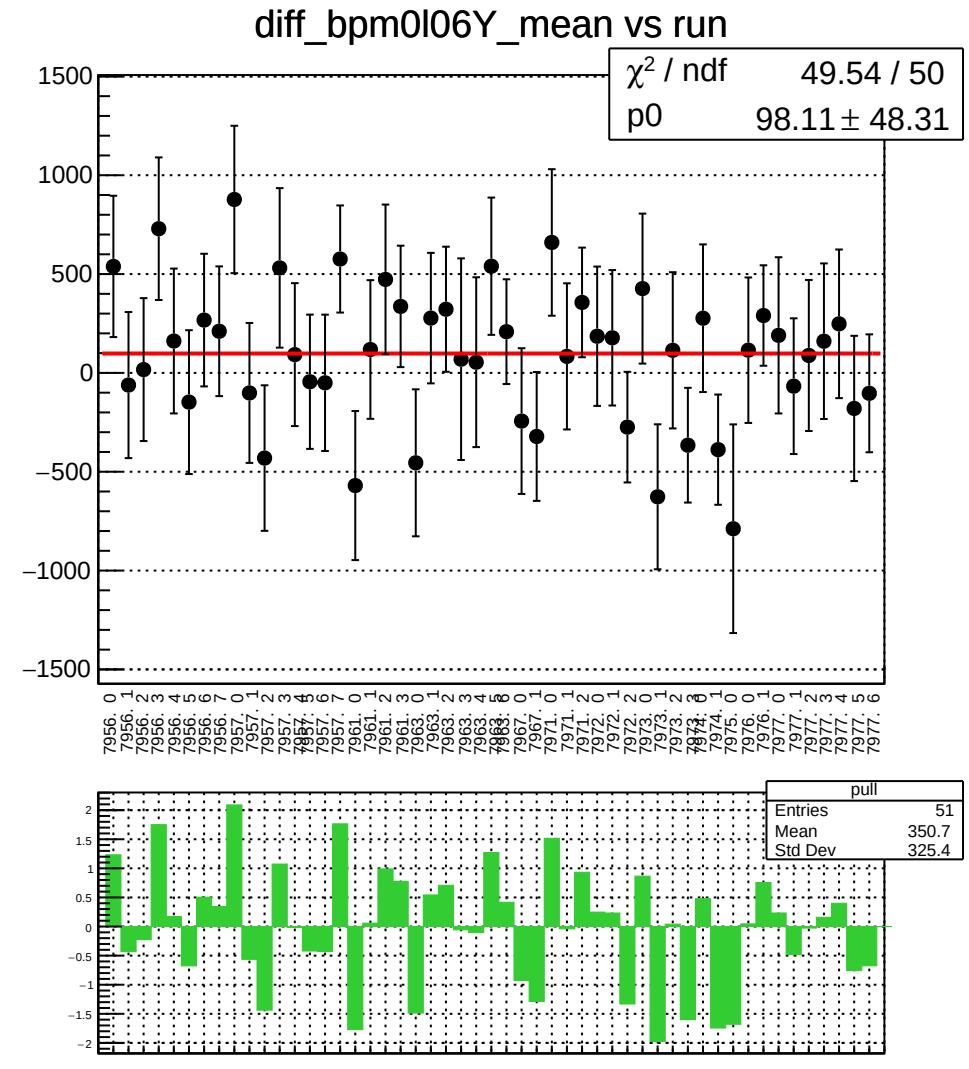

pull1D
Entries 51
Mean −0.09084
Std Dev 2.144

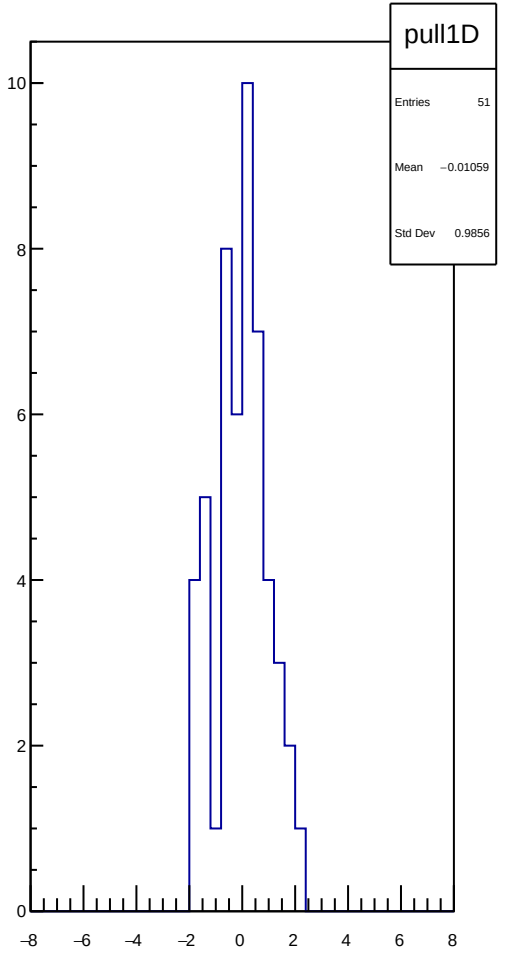

diff_bpm0l05Y_rms vs run
χ² / ndf 668.6 / 50
p0 1499 ± 1.478
1600
1550
1500
1450
1400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
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

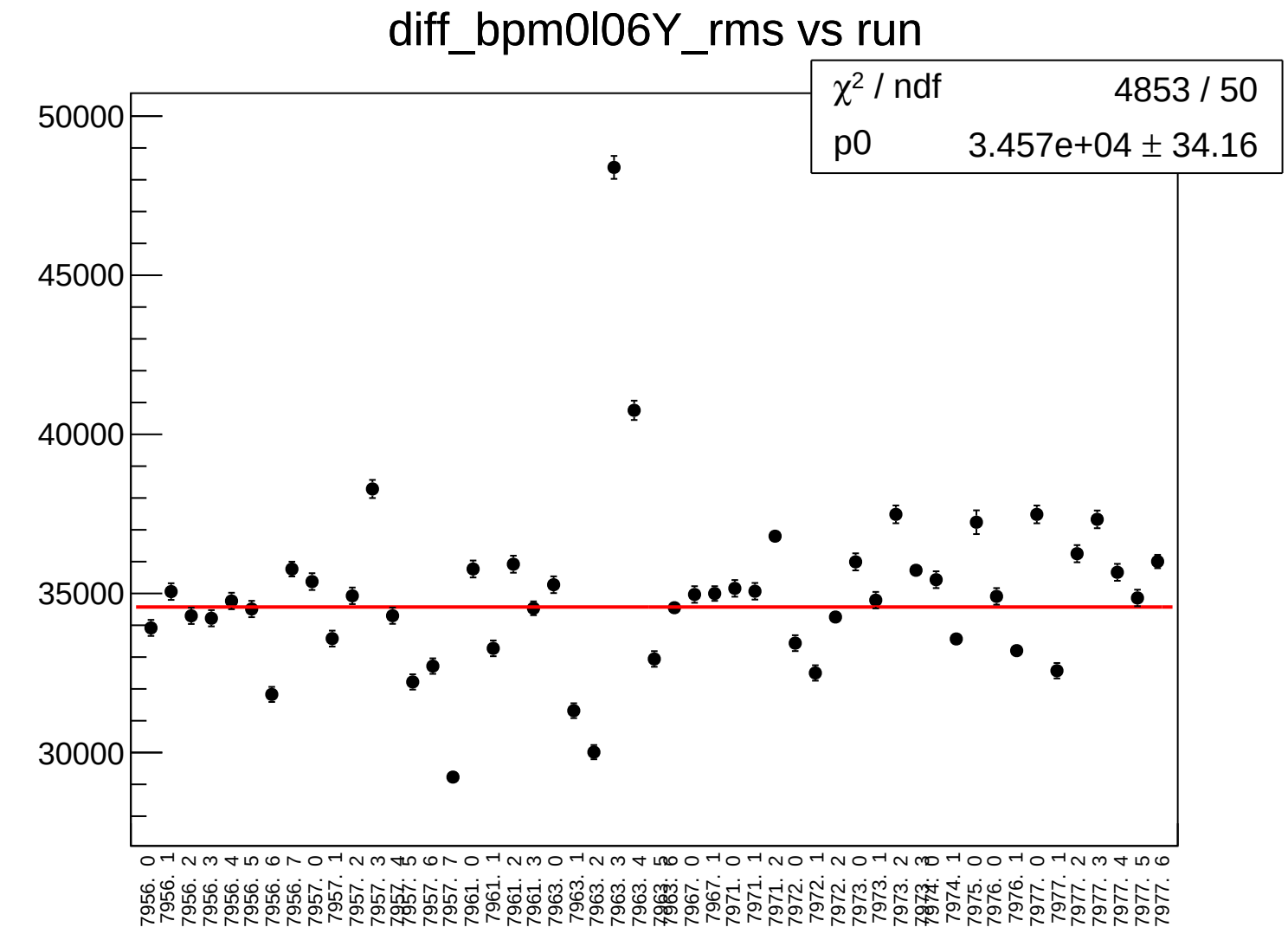

diff_bpm0l06X_mean vs run
χ² / ndf 37.78 / 50
p0 −4.789 ± 25.31
400
200
0
−200
−400
−600
pull
Entries 51
Mean −416.9
Std Dev 448.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 51
Mean −0.005083
Std Dev 0.8606
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0l06X_rms vs run
χ² / ndf 811.4 / 50
p0 1.815e+04 ± 17.9
21000
20500
20000
19500
19000
18500
18000
17500
17000
16500
7956. 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_bpm0l06Y_mean vs run
χ² / ndf 49.54 / 50
p0 98.11 ± 48.31
pull
Entries 51
Mean 350.7
Std Dev 325.4


pull1D
Entries 51
Mean −0.01059
Std Dev 0.9856


diff_bpm0l06Y_rms vs run
χ² / ndf 4853 / 50
p0 3.457e+04 ± 34.16
50000
45000
40000
35000
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
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. 3
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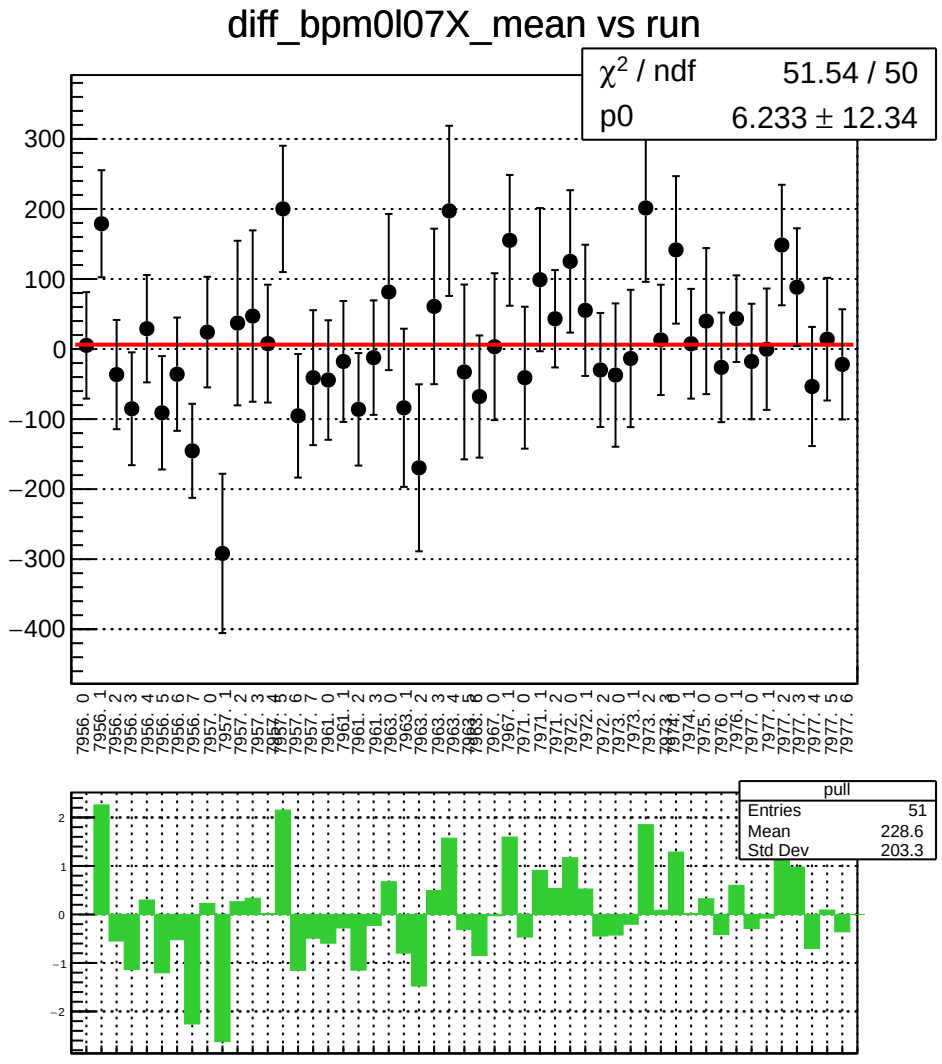
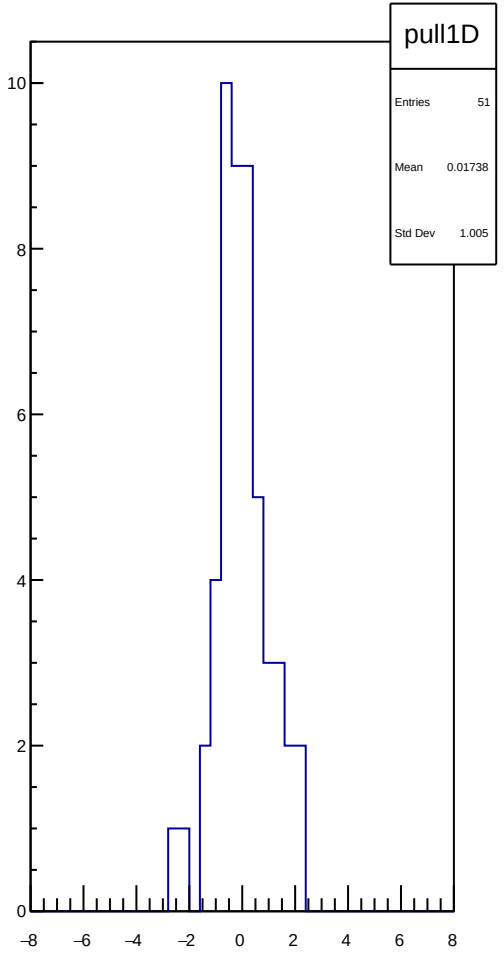
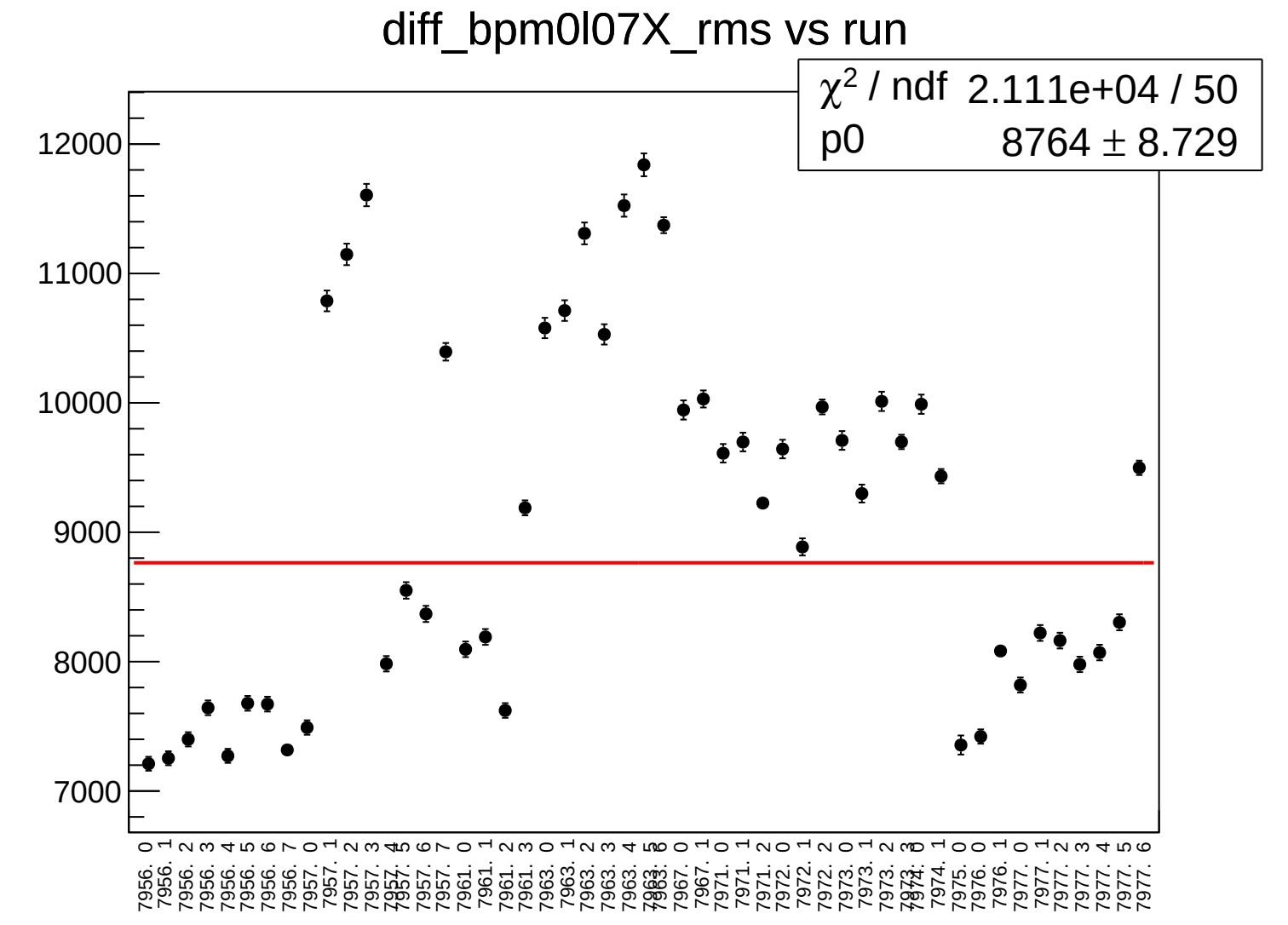
7977. 5
7977. 6


diff_bpm0l07X_mean vs run
χ² / ndf 51.54 / 50
p0 6.233 ± 12.34
pull
Entries 51
Mean 228.6
Std Dev 203.3


pull1D
Entries 51
Mean 0.01738
Std Dev 1.005


diff_bpm0l07X_rms vs run
χ² / ndf 2.111e+04 / 50
p0 8764 ± 8.729
12000
11000
10000
9000
8000
7000
7956. 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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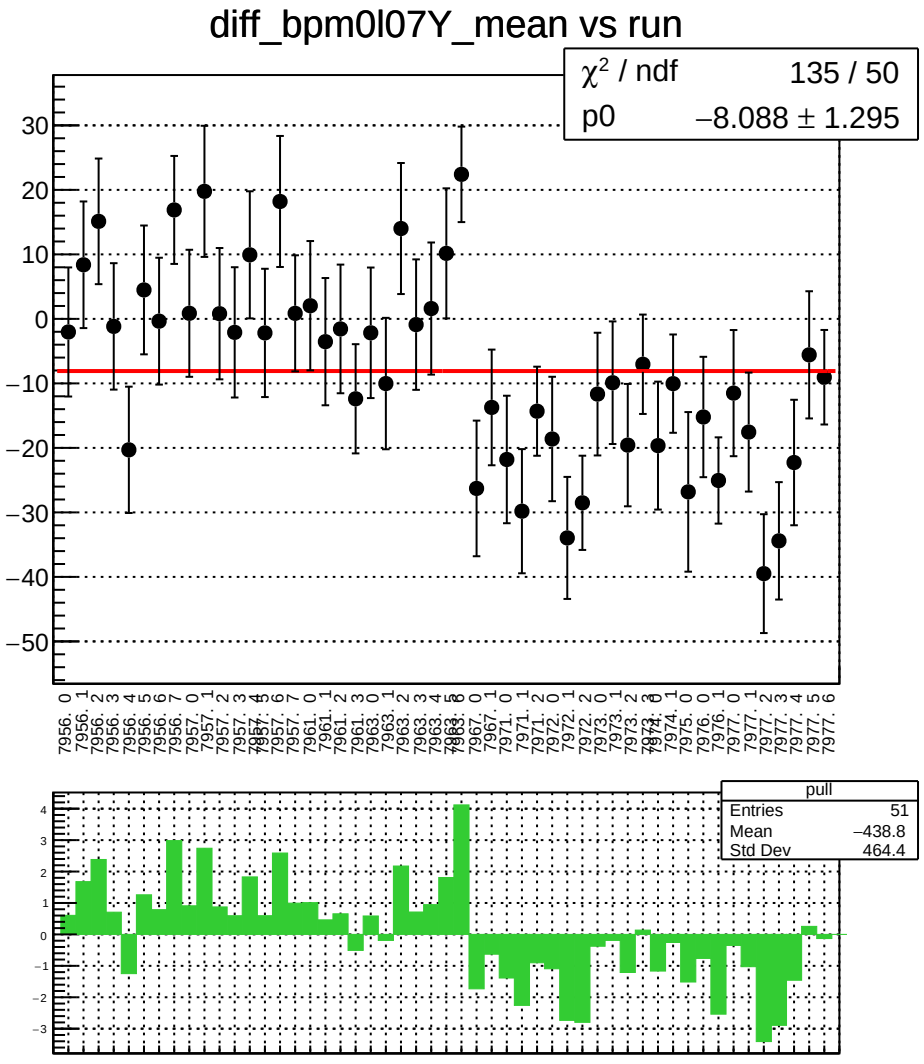
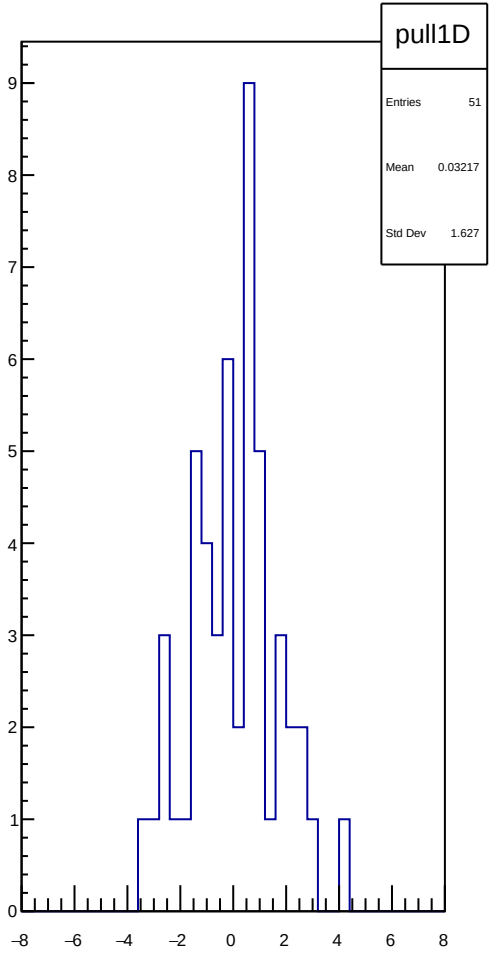
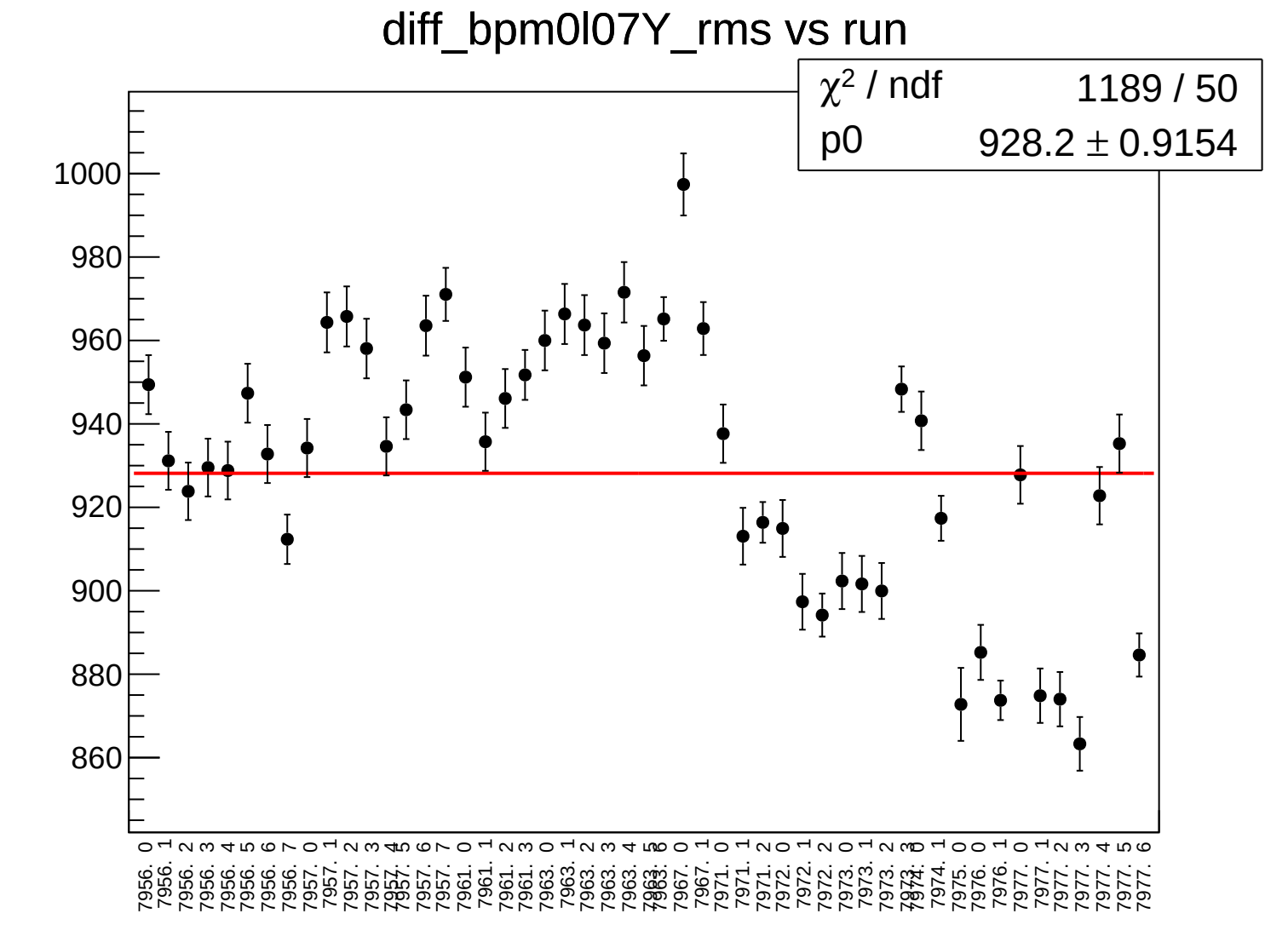
7977. 5
7977. 6


diff_bpm0l07Y_mean vs run
χ² / ndf 135 / 50
p0 −8.088 ± 1.295
pull
Entries 51
Mean −438.8
Std Dev 464.4


pull1D
Entries 51
Mean 0.03217
Std Dev 1.627


diff_bpm0l07Y_rms vs run
χ² / ndf 1189 / 50
p0 928.2 ± 0.9154
1000
980
960
940
920
900
880
860
7956. 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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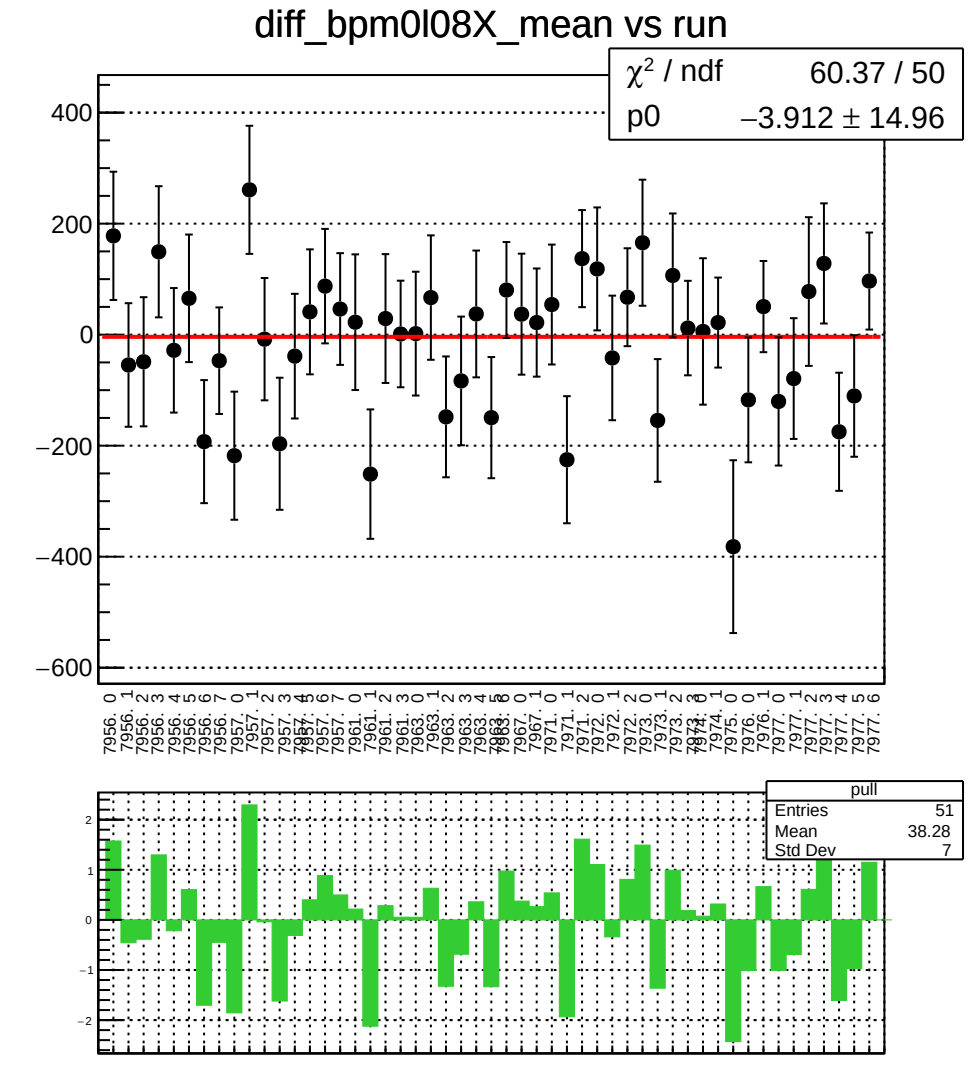
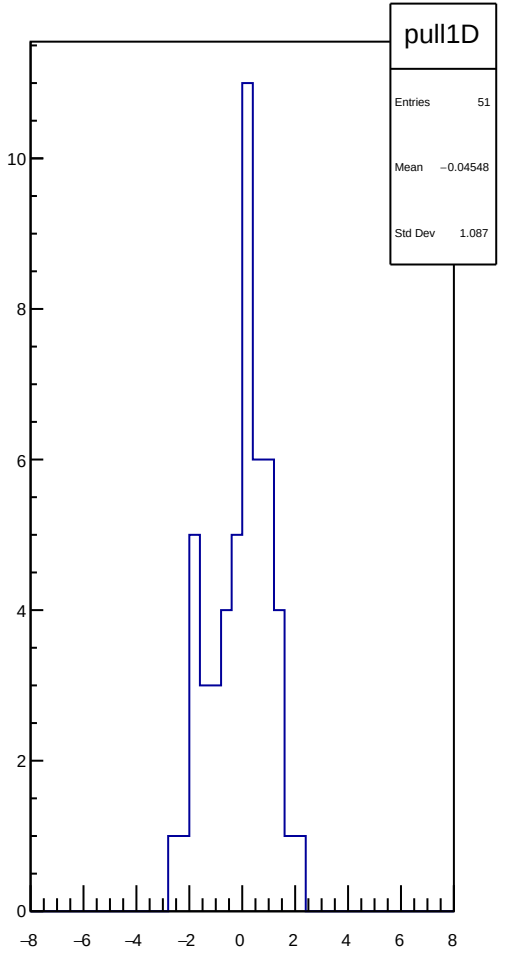
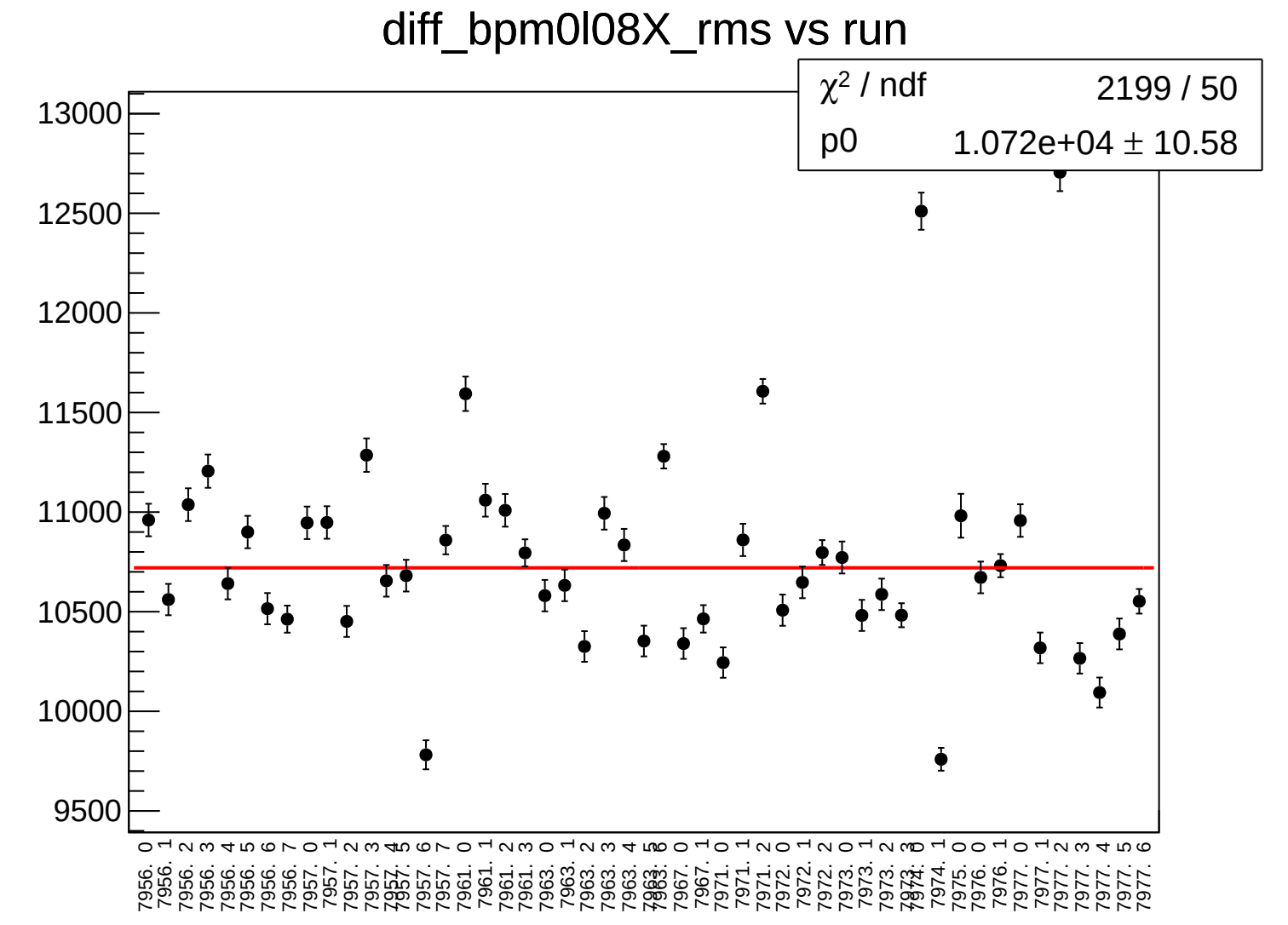
7977. 5
7977. 6


diff_bpm0l08X_mean vs run
χ² / ndf 60.37 / 50
p0 −3.912 ± 14.96
pull
Entries 51
Mean 38.28
Std Dev 7


pull1D
Entries 51
Mean −0.04548
Std Dev 1.087


diff_bpm0l08X_rms vs run
χ² / ndf 2199 / 50
p0 1.072e+04 ± 10.58
13000
12500
12000
11500
11000
10500
10000
9500
7956. 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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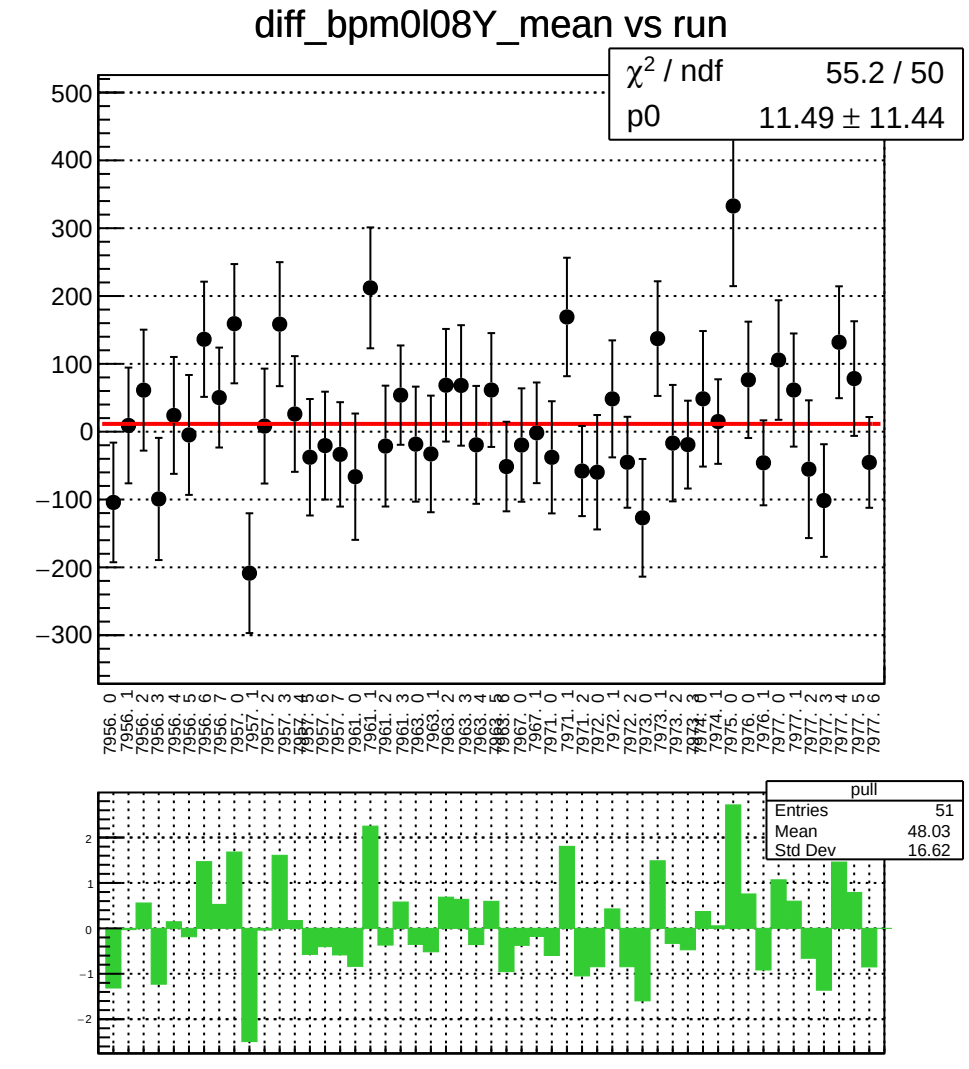
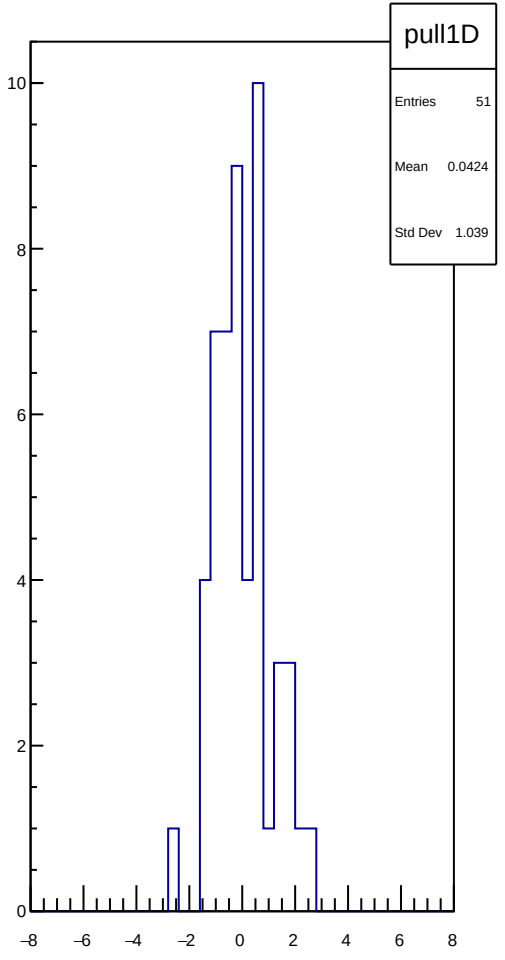
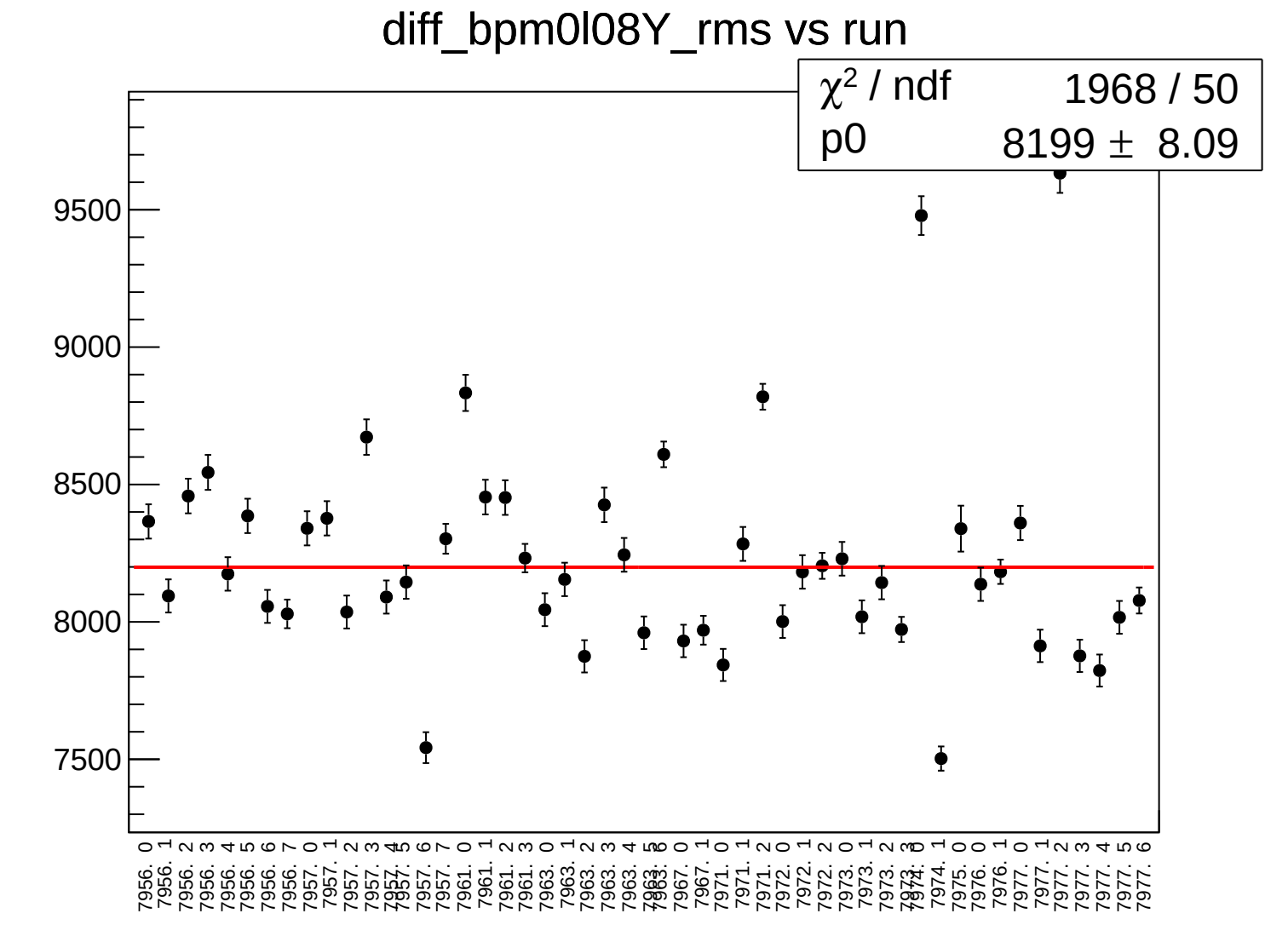
7977. 5
7977. 6


diff_bpm0l08Y_mean vs run
χ² / ndf 55.2 / 50
p0 11.49 ± 11.44
pull
Entries 51
Mean 48.03
Std Dev 16.62


pull1D
Entries 51
Mean 0.0424
Std Dev 1.039


diff_bpm0l08Y_rms vs run
χ² / ndf 1968 / 50
p0 8199 ± 8.09
9500
9000
8500
8000
7500
7956. 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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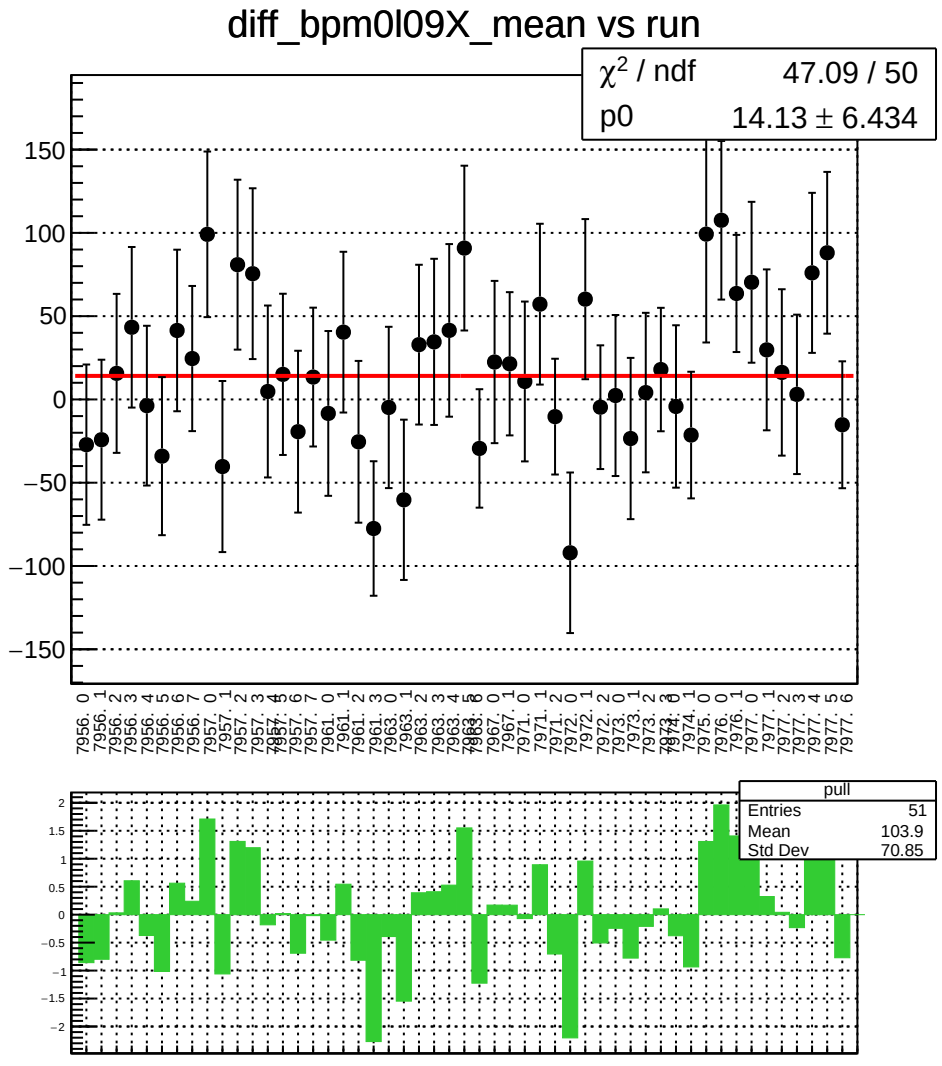
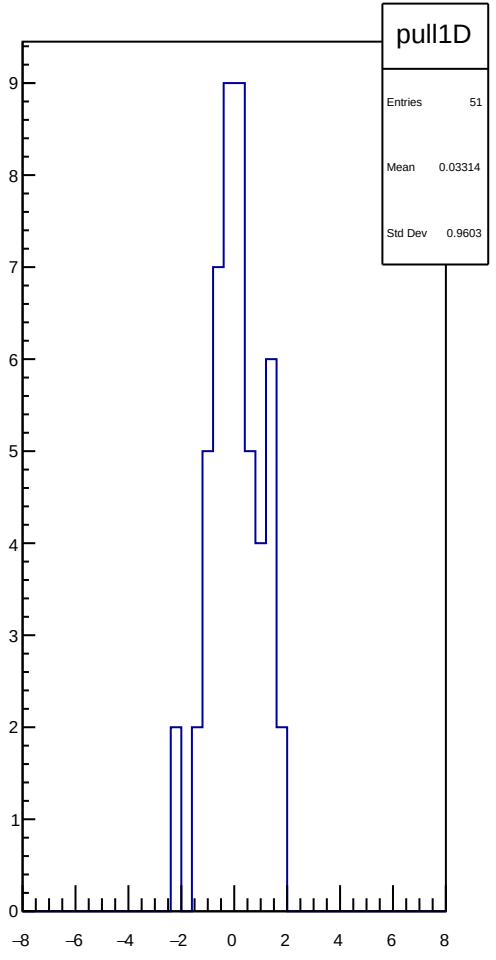
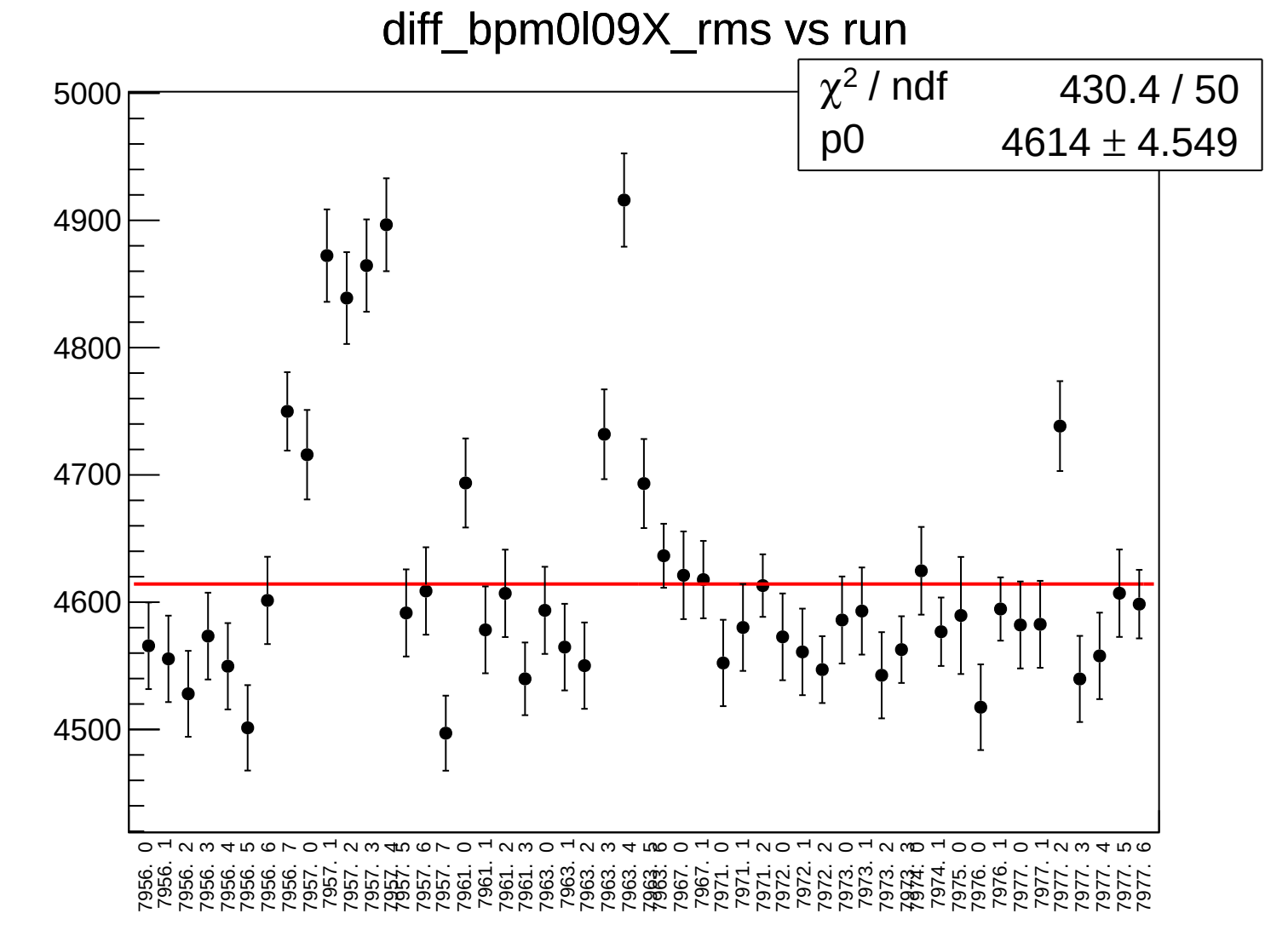
7977. 5
7977. 6


diff_bpm0l09X_mean vs run
χ² / ndf 47.09 / 50
p0 14.13 ± 6.434
pull
Entries 51
Mean 103.9
Std Dev 70.85


pull1D
Entries 51
Mean 0.03314
Std Dev 0.9603


diff_bpm0l09X_rms vs run
χ^2 / ndf 430.4 / 50
p0 4614 ± 4.549
5000
4900
4800
4700
4600
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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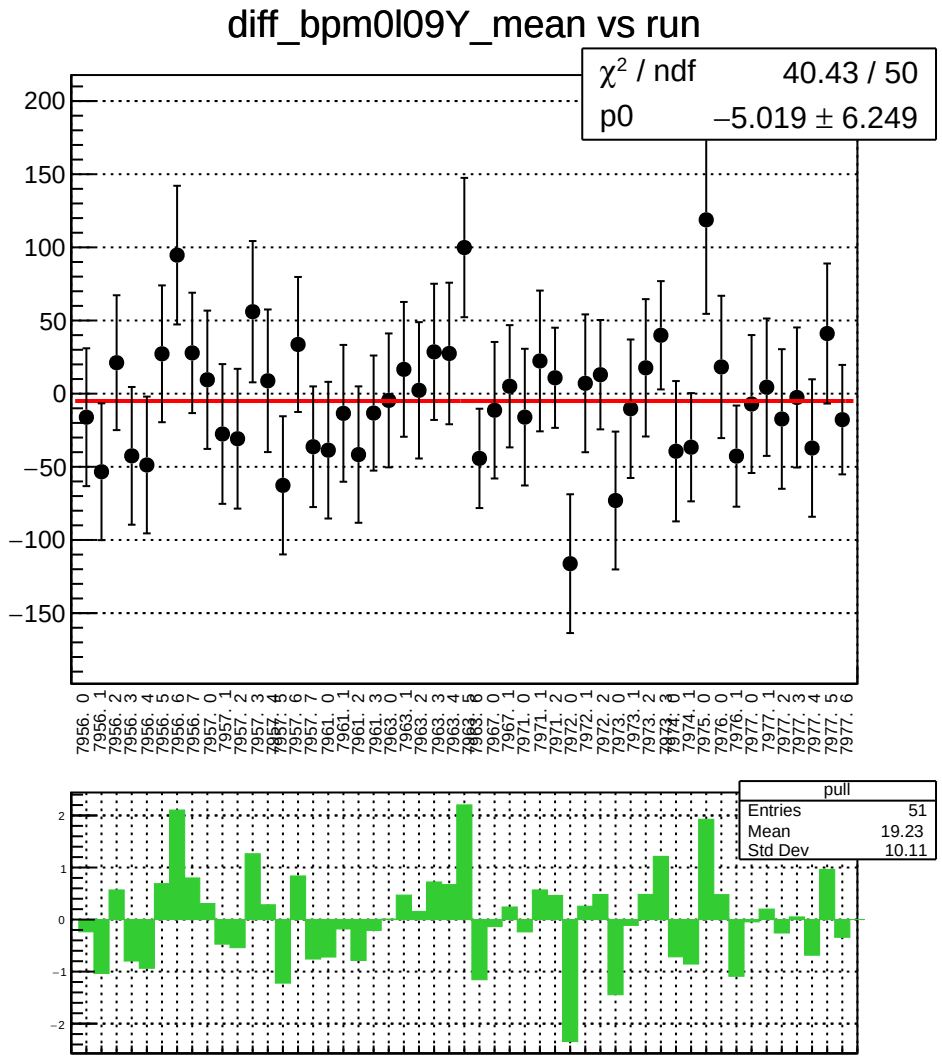
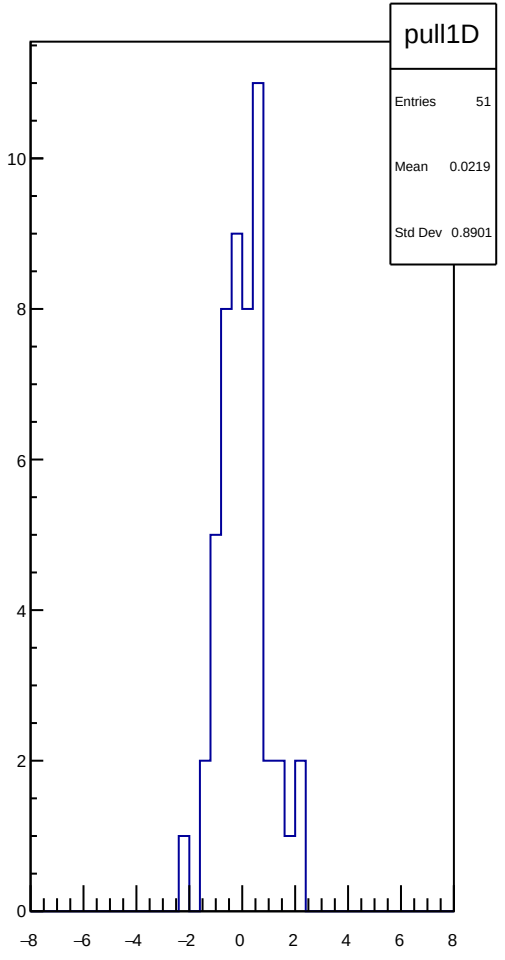
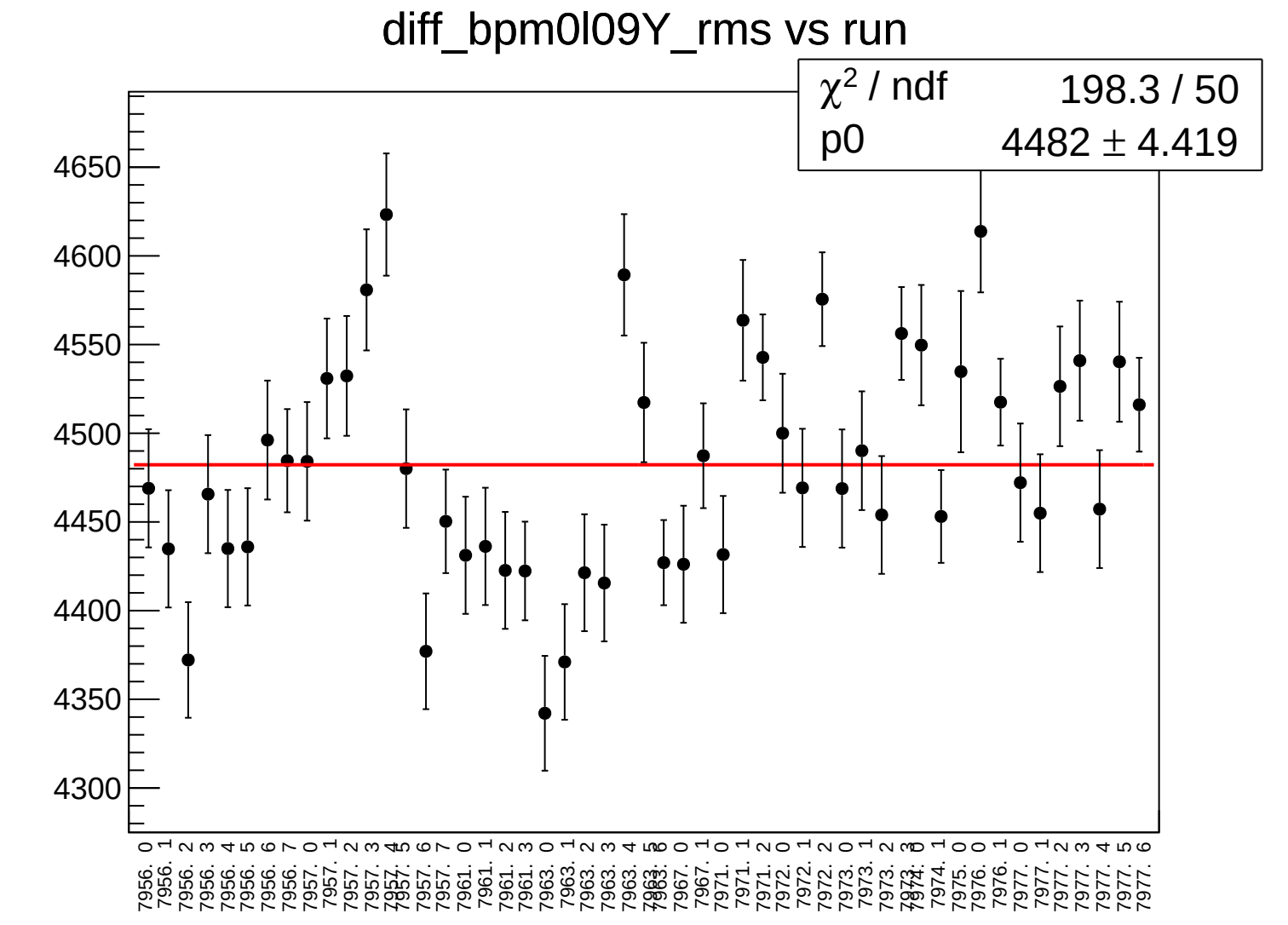
7977. 5
7977. 6


diff_bpm0l09Y_mean vs run
χ² / ndf 40.43 / 50
p0 −5.019 ± 6.249
pull
Entries 51
Mean 19.23
Std Dev 10.11


pull1D
Entries 51
Mean 0.0219
Std Dev 0.8901


diff_bpm0l09Y_rms vs run
χ² / ndf 198.3 / 50
p0 4482 ± 4.419
4650
4600
4550
4500
4450
4400
4350
4300
7956. 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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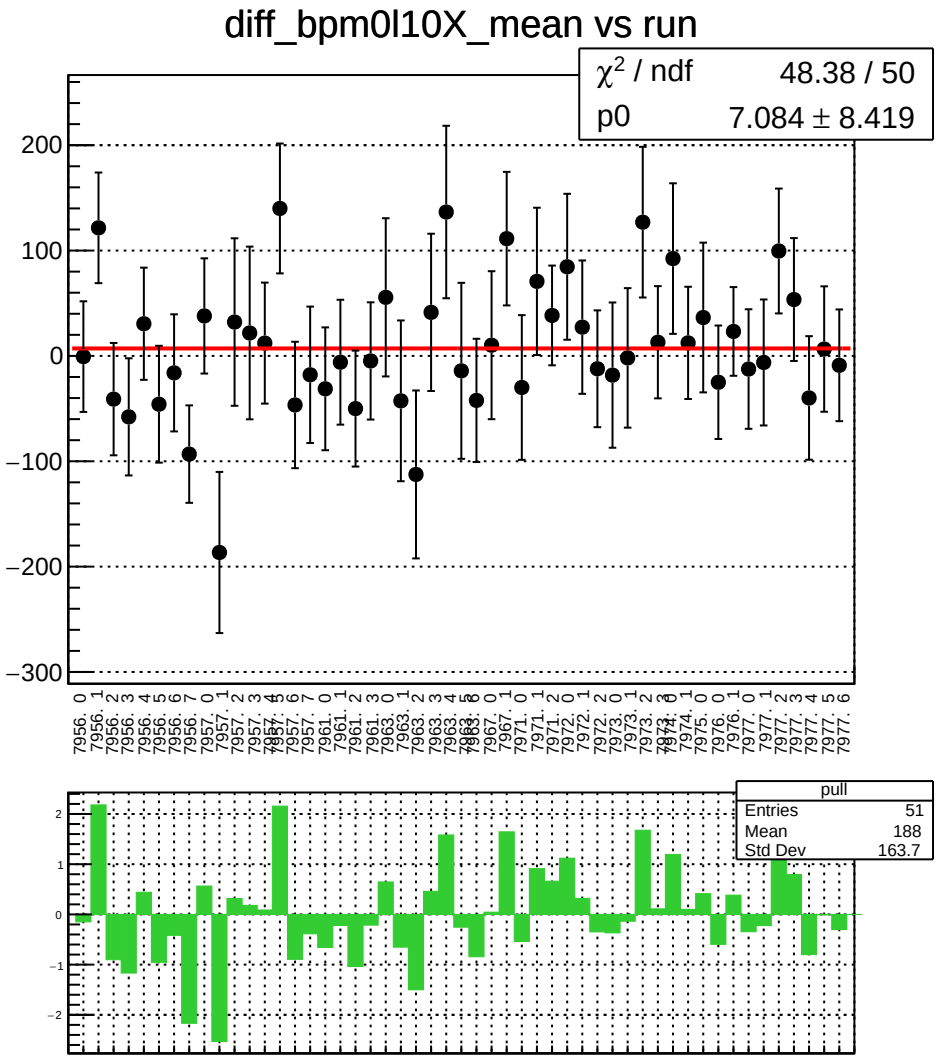
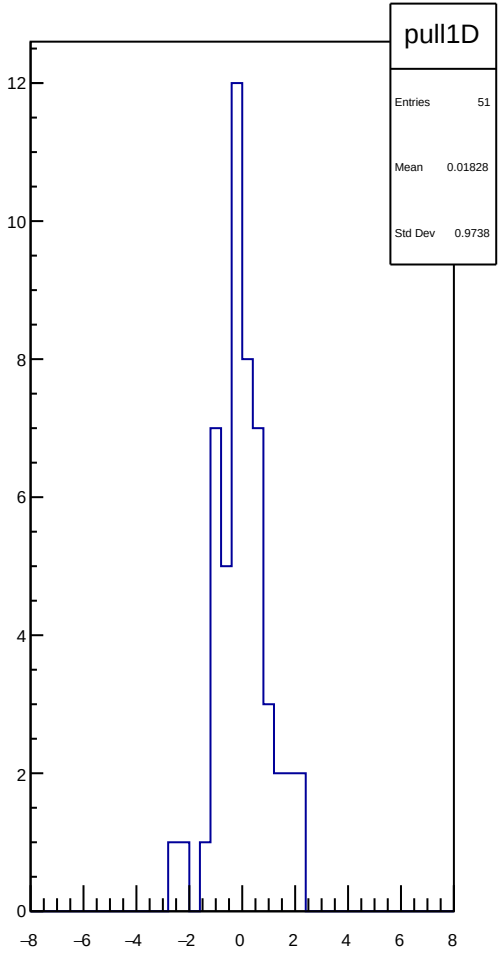
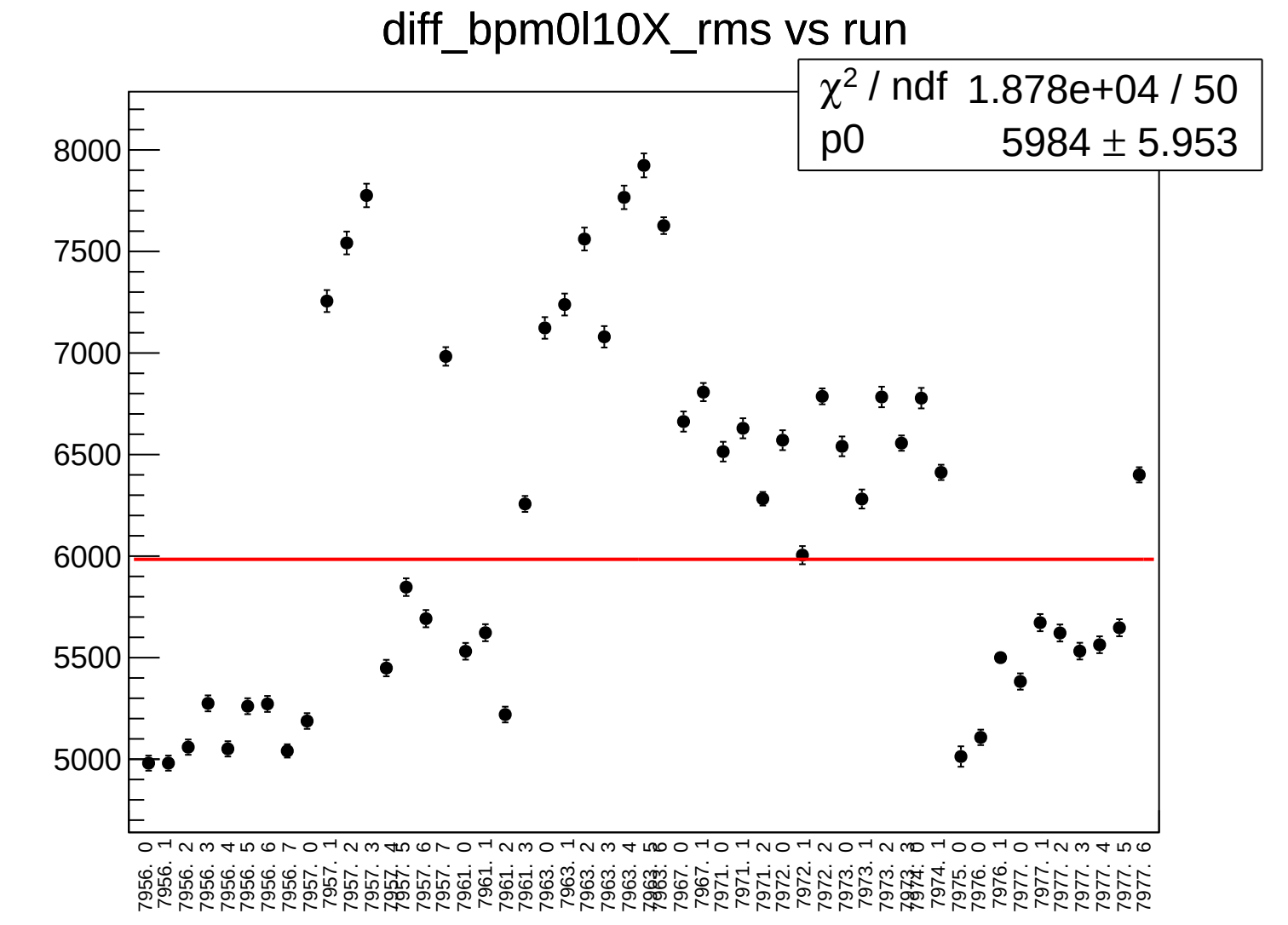
7977. 5
7977. 6


diff_bpm0l10X_mean vs run
χ² / ndf 48.38 / 50
p0 7.084 ± 8.419
pull
Entries 51
Mean 188
Std Dev 163.7


pull1D
Entries 51
Mean 0.01828
Std Dev 0.9738


diff_bpm0l10X_rms vs run
χ² / ndf 1.878e+04 / 50
p0 5984 ± 5.953
8000
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
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
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7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
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7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
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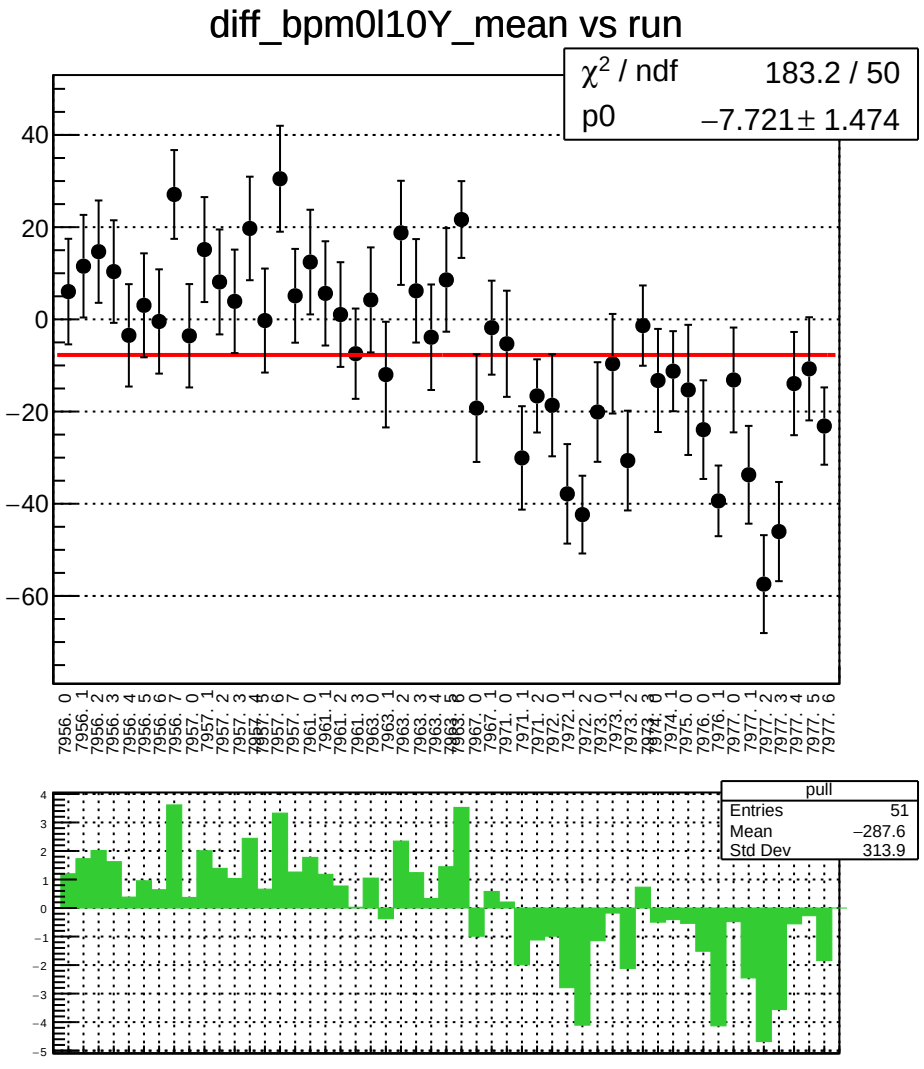
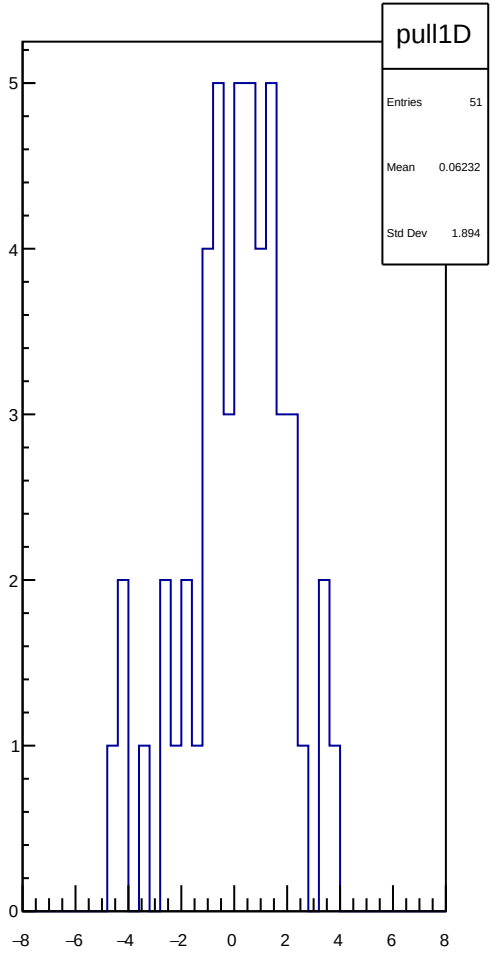
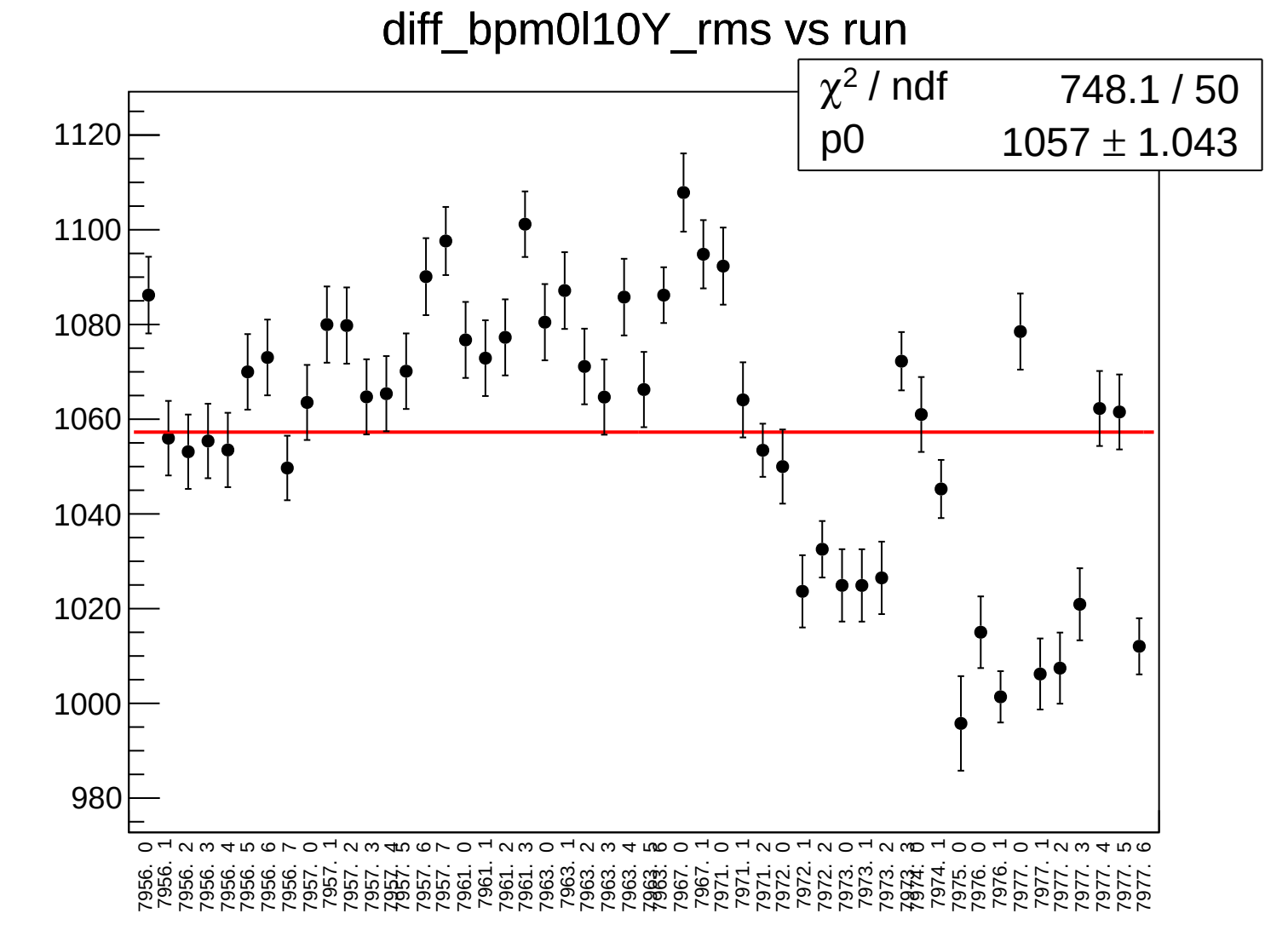
7977. 6


diff_bpm0l10Y_mean vs run
χ² / ndf 183.2 / 50
p0 −7.721 ± 1.474
pull
Entries 51
Mean −287.6
Std Dev 313.9


pull1D
Entries 51
Mean 0.06232
Std Dev 1.894


diff_bpm0l10Y_rms vs run
χ² / ndf 748.1 / 50
p0 1057 ± 1.043
1120
1100
1080
1060
1040
1020
1000
980
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. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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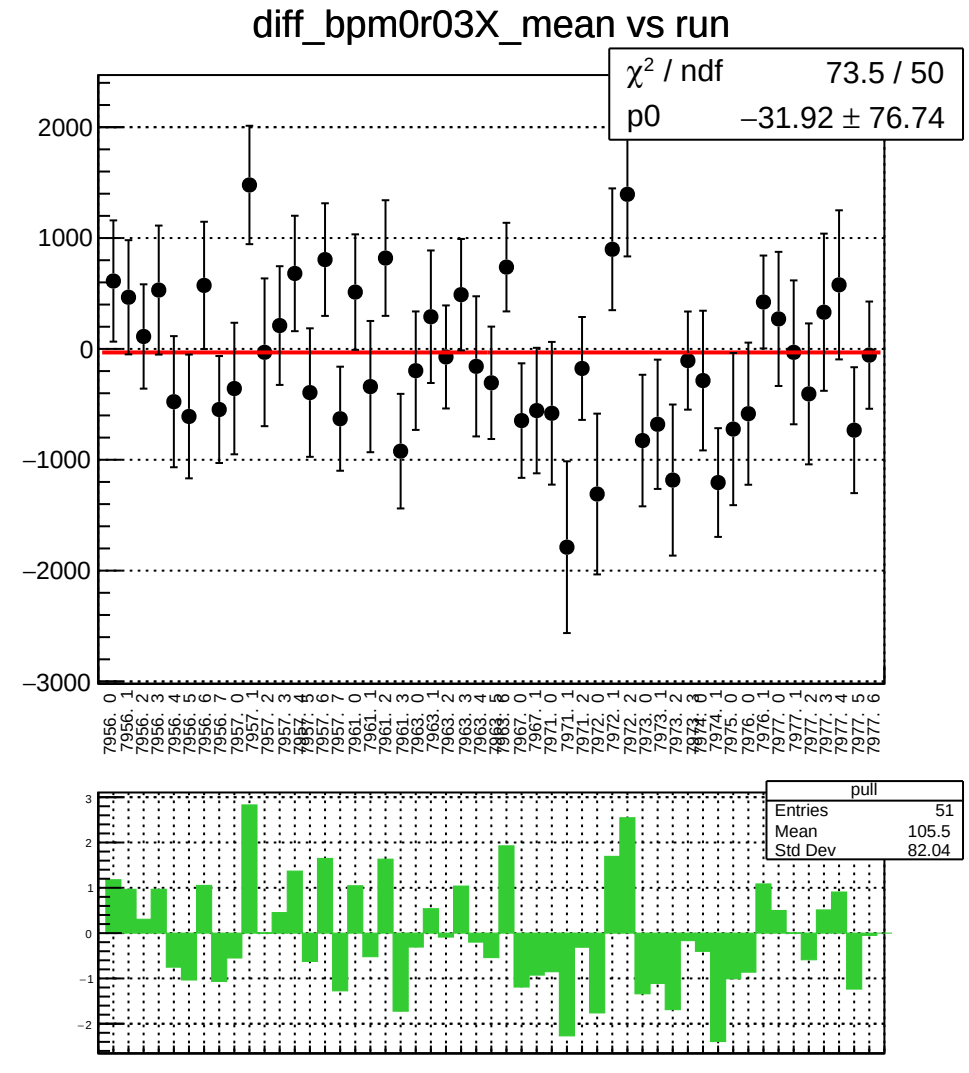
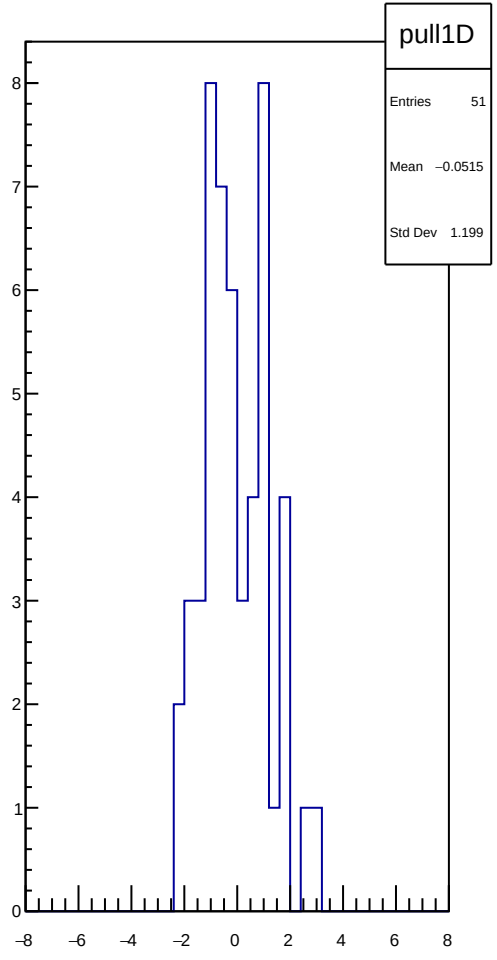
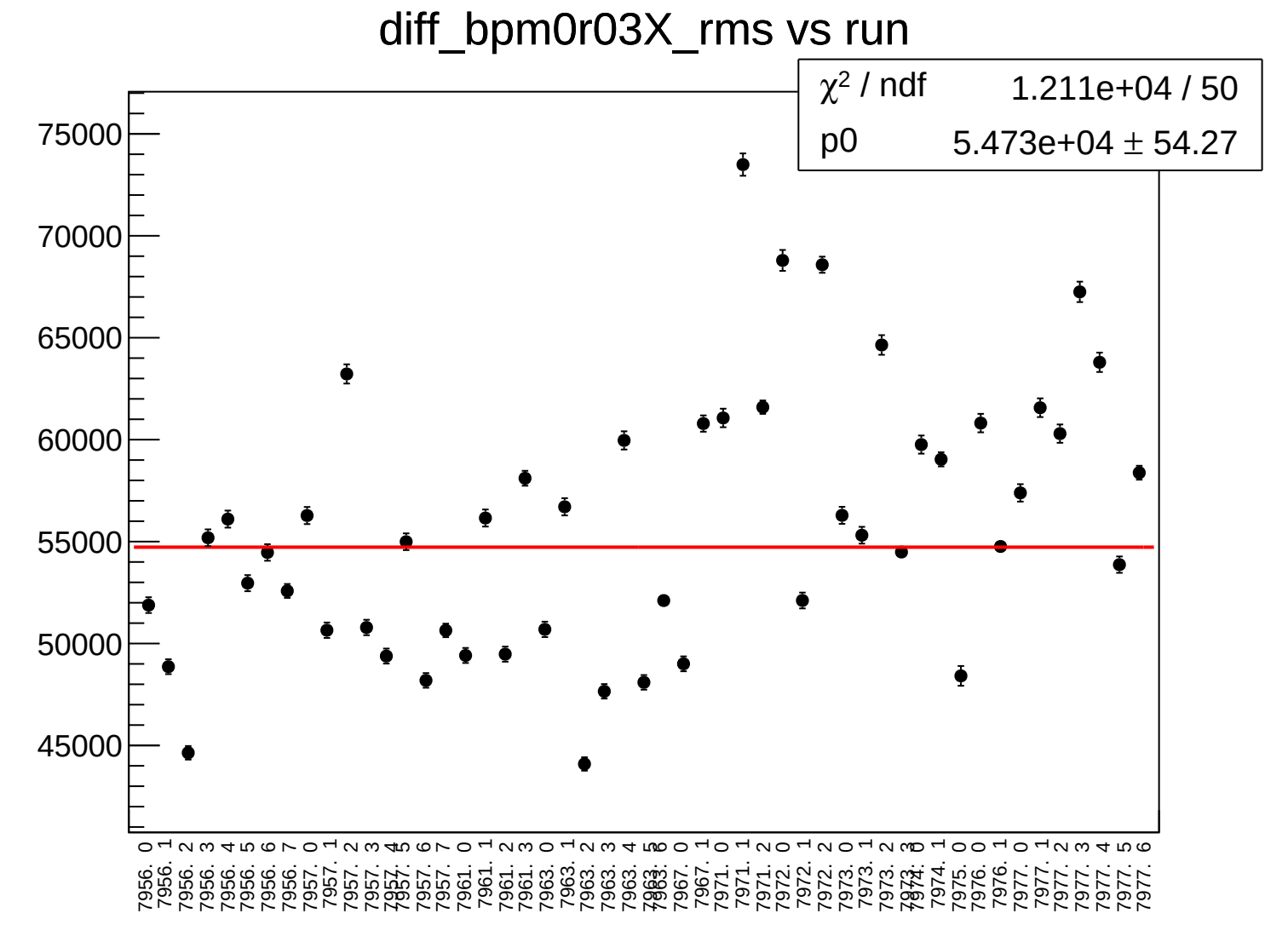
7977. 5
7977. 6


diff_bpm0r03X_mean vs run
χ^2 / ndf 73.5 / 50
p0 −31.92 ± 76.74
pull
Entries 51
Mean 105.5
Std Dev 82.04


pull1D
Entries 51
Mean −0.0515
Std Dev 1.199


diff_bpm0r03X_rms vs run
χ² / ndf 1.211e+04 / 50
p0 5.473e+04 ± 54.27
75000
70000
65000
60000
55000
50000
45000
7956. 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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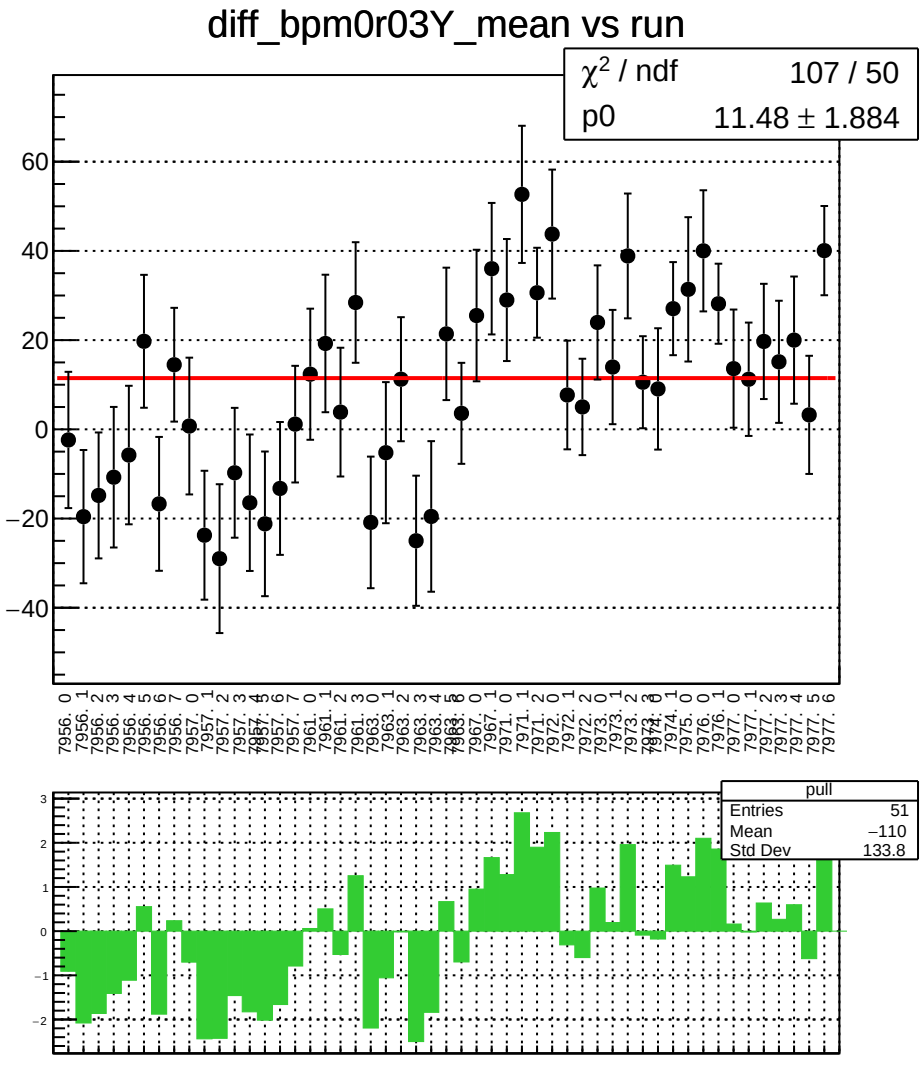
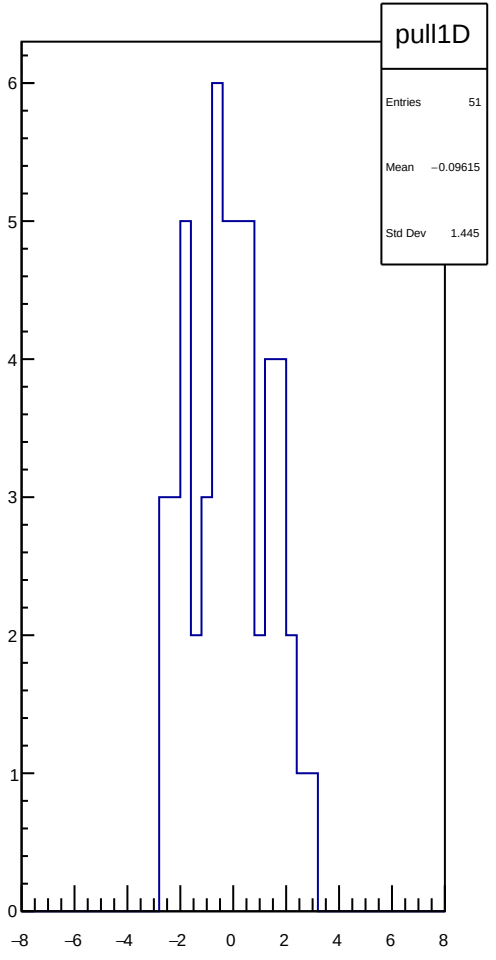
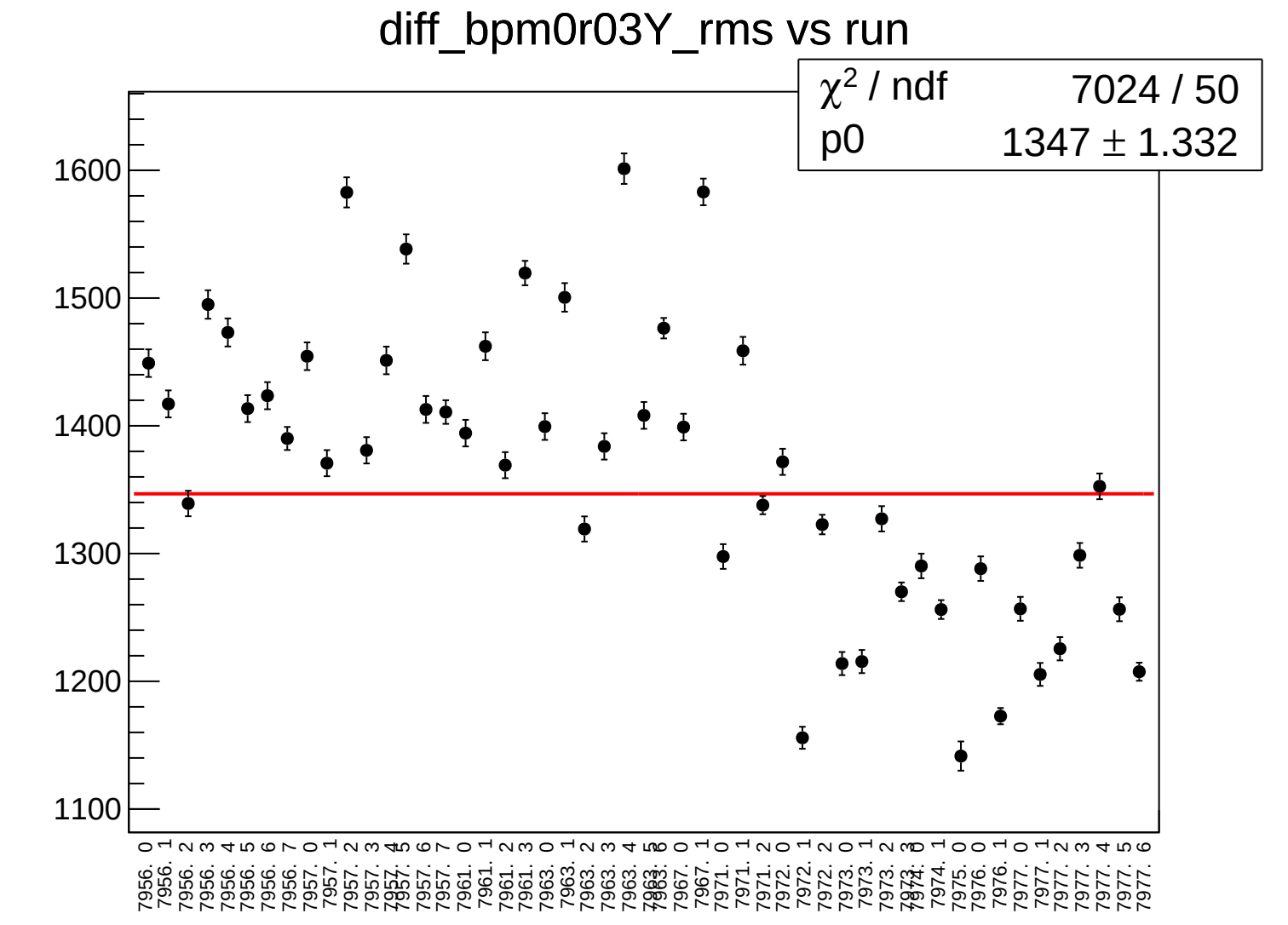
7977. 5
7977. 6


diff_bpm0r03Y_mean vs run
χ² / ndf 107 / 50
p0 11.48 ± 1.884
pull
Entries 51
Mean −110
Std Dev 133.8


pull1D
Entries 51
Mean −0.09615
Std Dev 1.445


diff_bpm0r03Y_rms vs run
χ² / ndf 7024 / 50
p0 1347 ± 1.332
1600
1500
1400
1300
1200
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
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7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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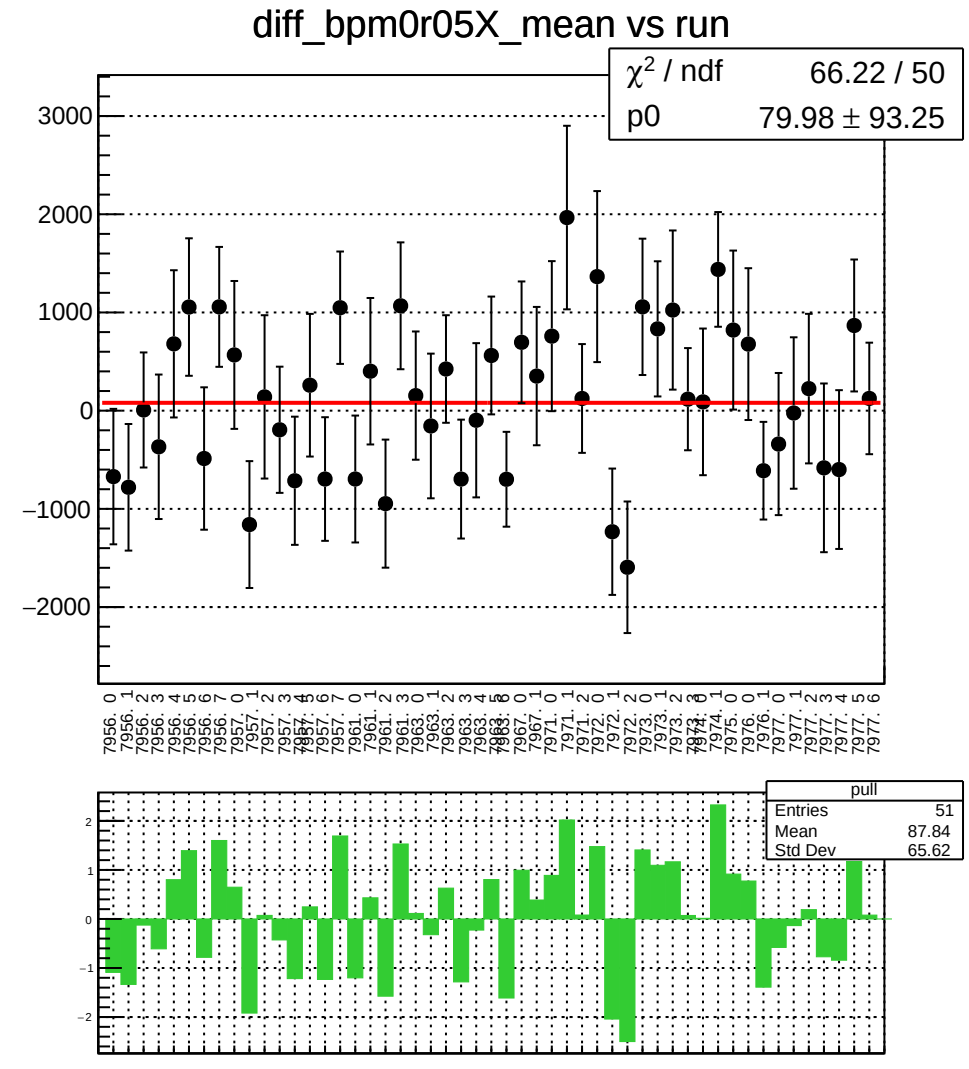
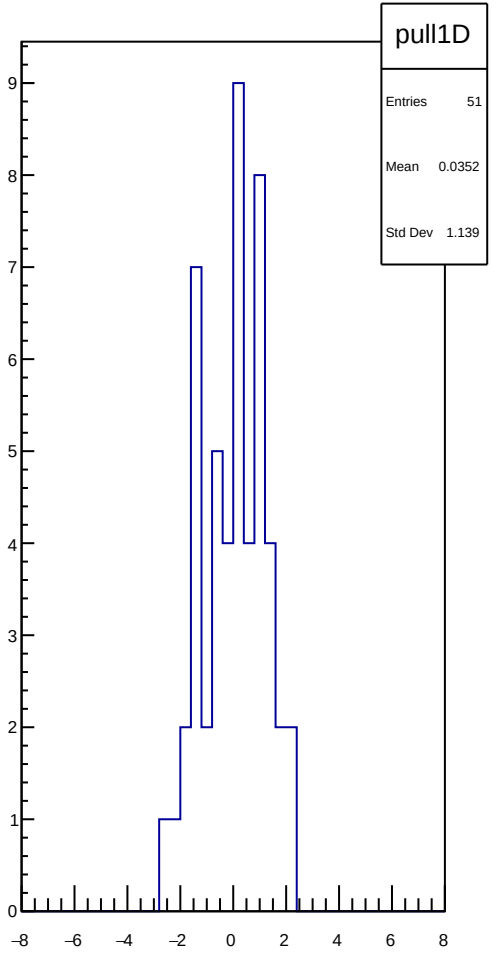
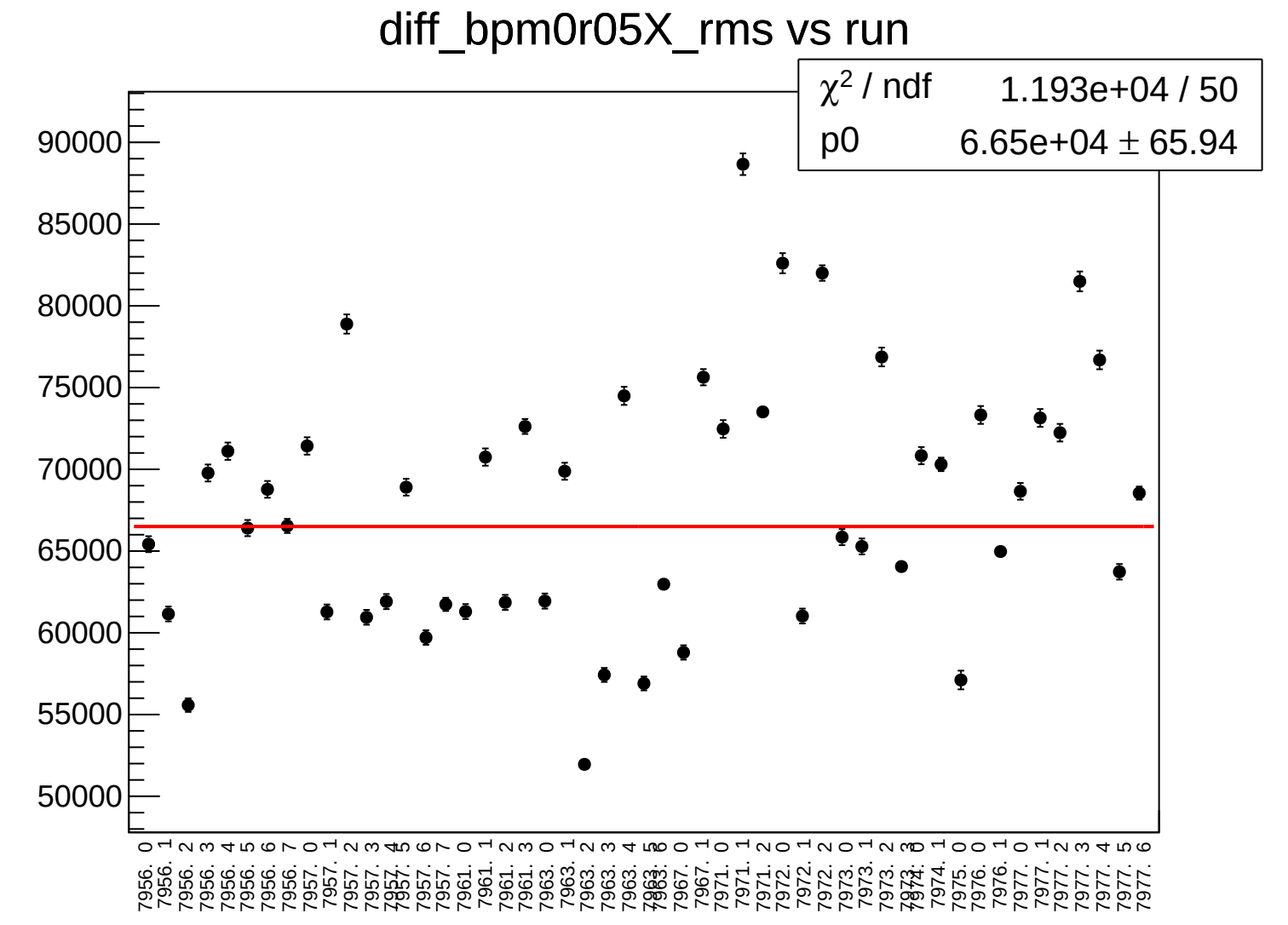
7977. 5
7977. 6


diff_bpm0r05X_mean vs run
χ² / ndf 66.22 / 50
p0 79.98 ± 93.25
pull
Entries 51
Mean 87.84
Std Dev 65.62


pull1D
Entries 51
Mean 0.0352
Std Dev 1.139


diff_bpm0r05X_rms vs run
χ^2 / ndf 1.193e+04 / 50
p0 6.65e+04 ± 65.94
90000
85000
80000
75000
70000
65000
60000
55000
50000
7956. 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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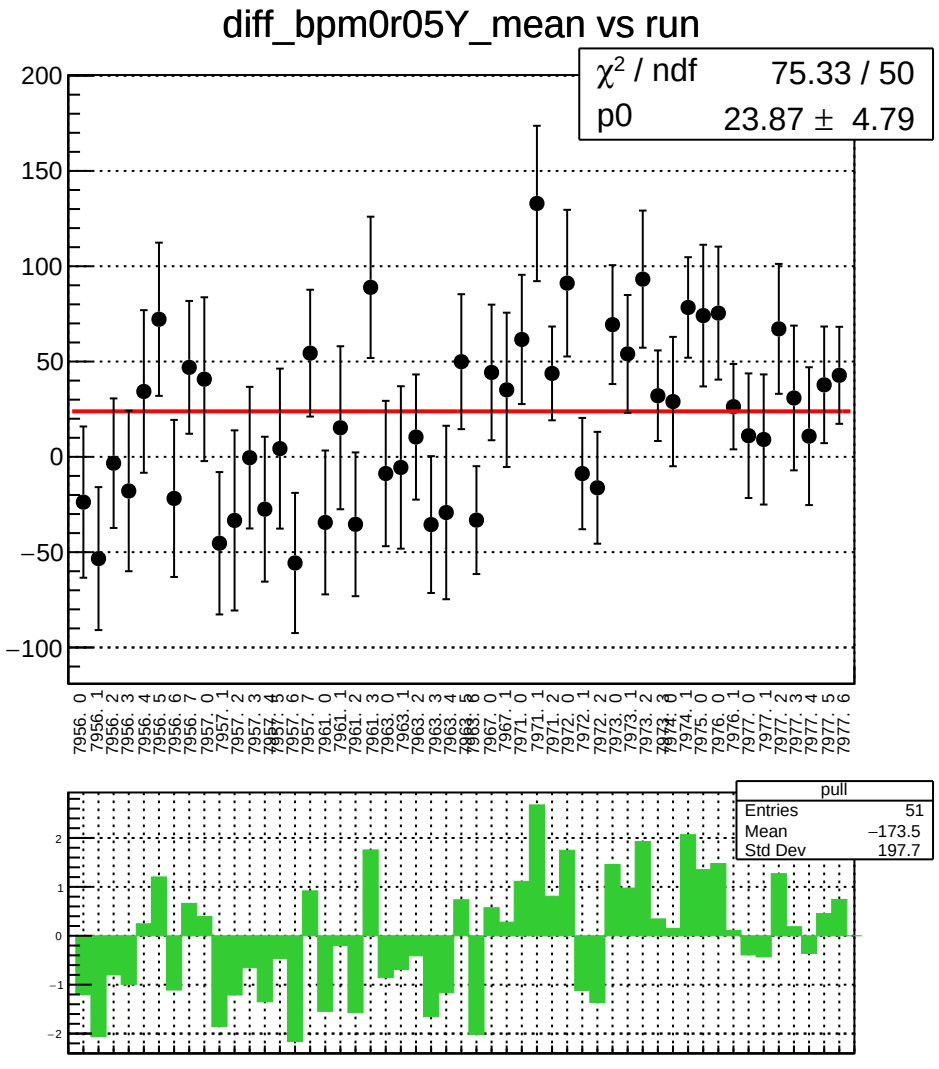
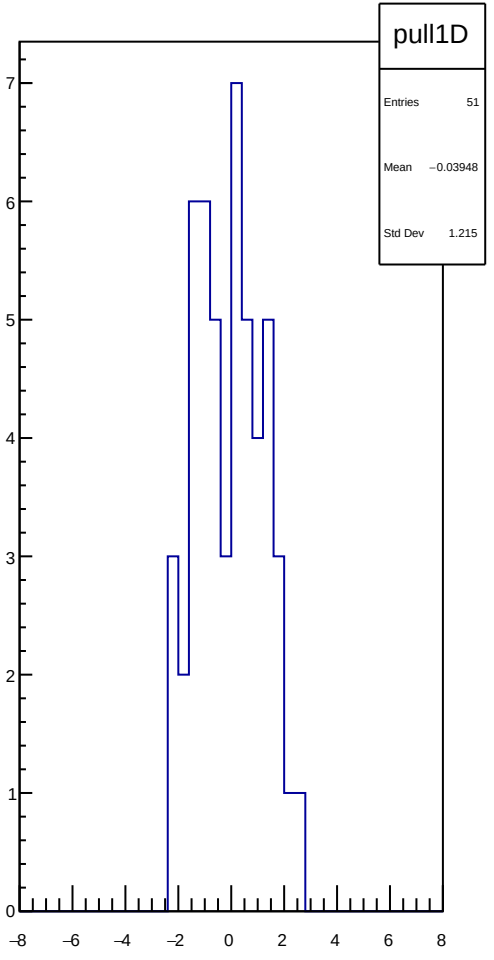
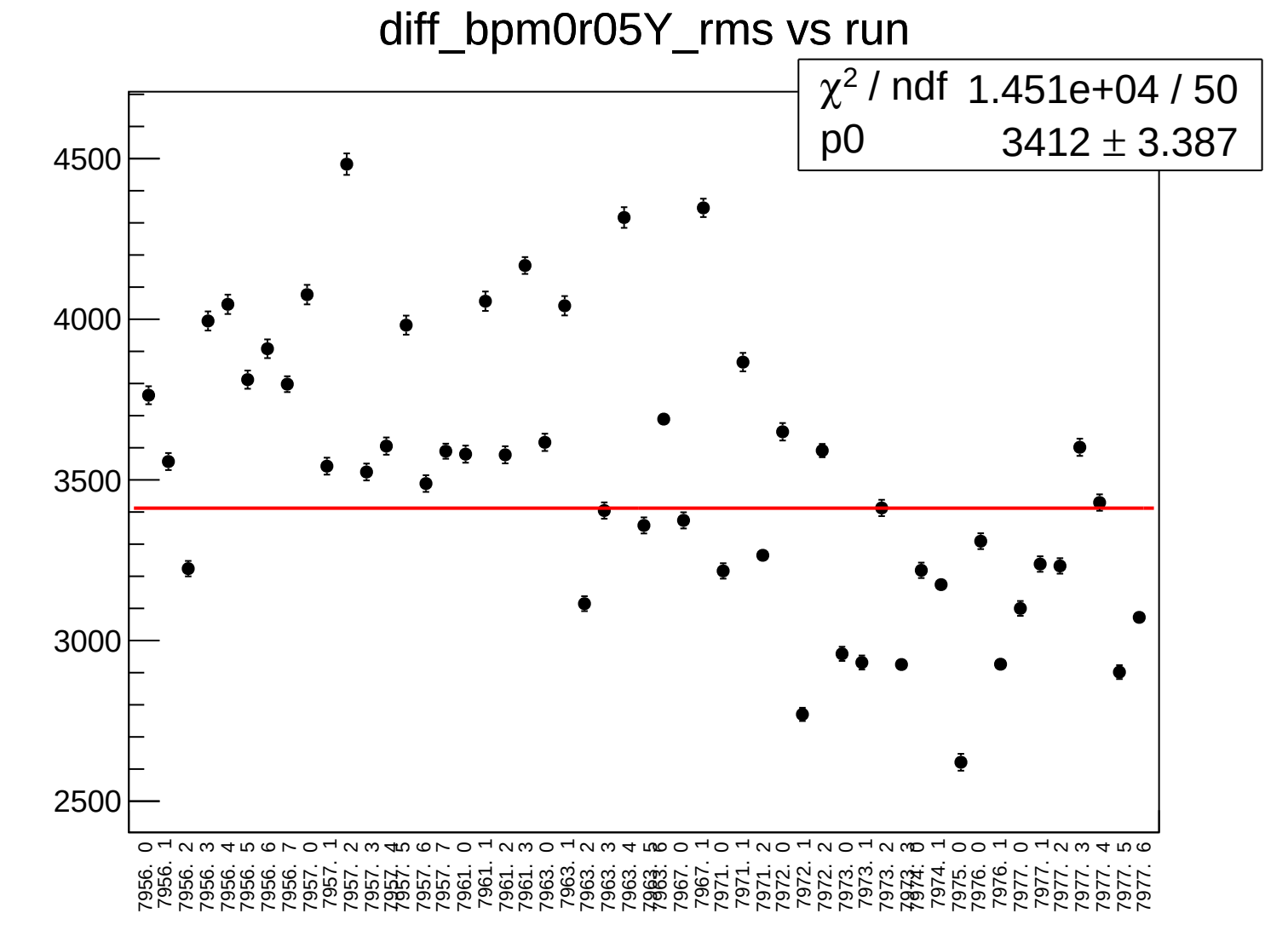
7977. 5
7977. 6


diff_bpm0r05Y_mean vs run
χ² / ndf 75.33 / 50
p0 23.87 ± 4.79
pull
Entries 51
Mean −173.5
Std Dev 197.7


pull1D
Entries 51
Mean −0.03948
Std Dev 1.215


diff_bpm0r05Y_rms vs run
χ² / ndf 1.451e+04 / 50
p0 3412 ± 3.387
4500
4000
3500
3000
2500
7956. 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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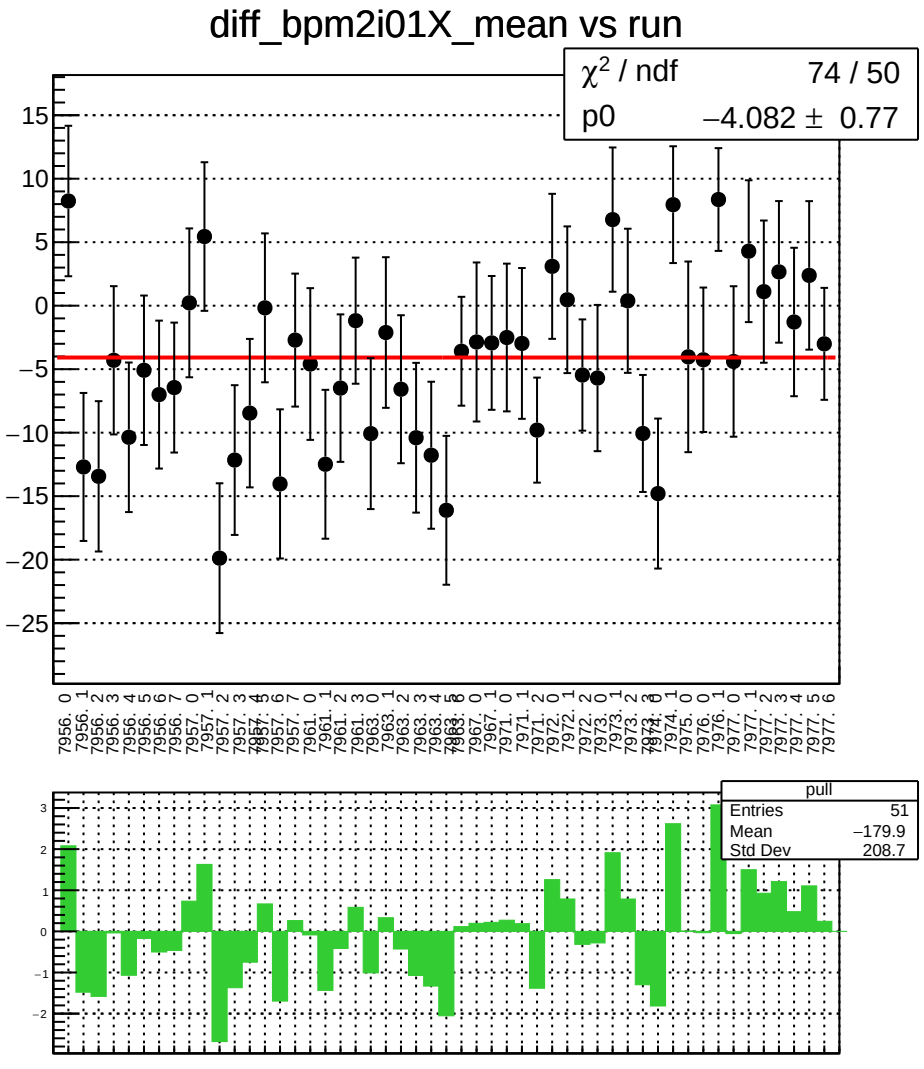
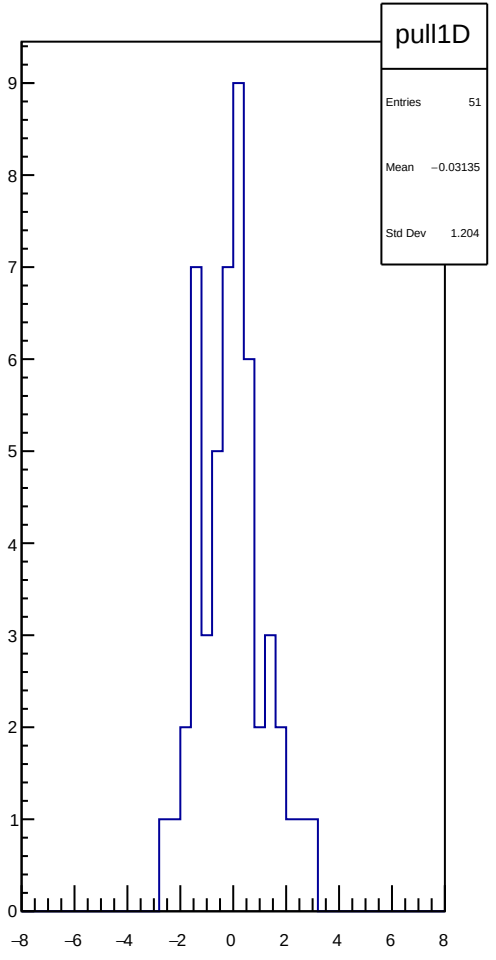
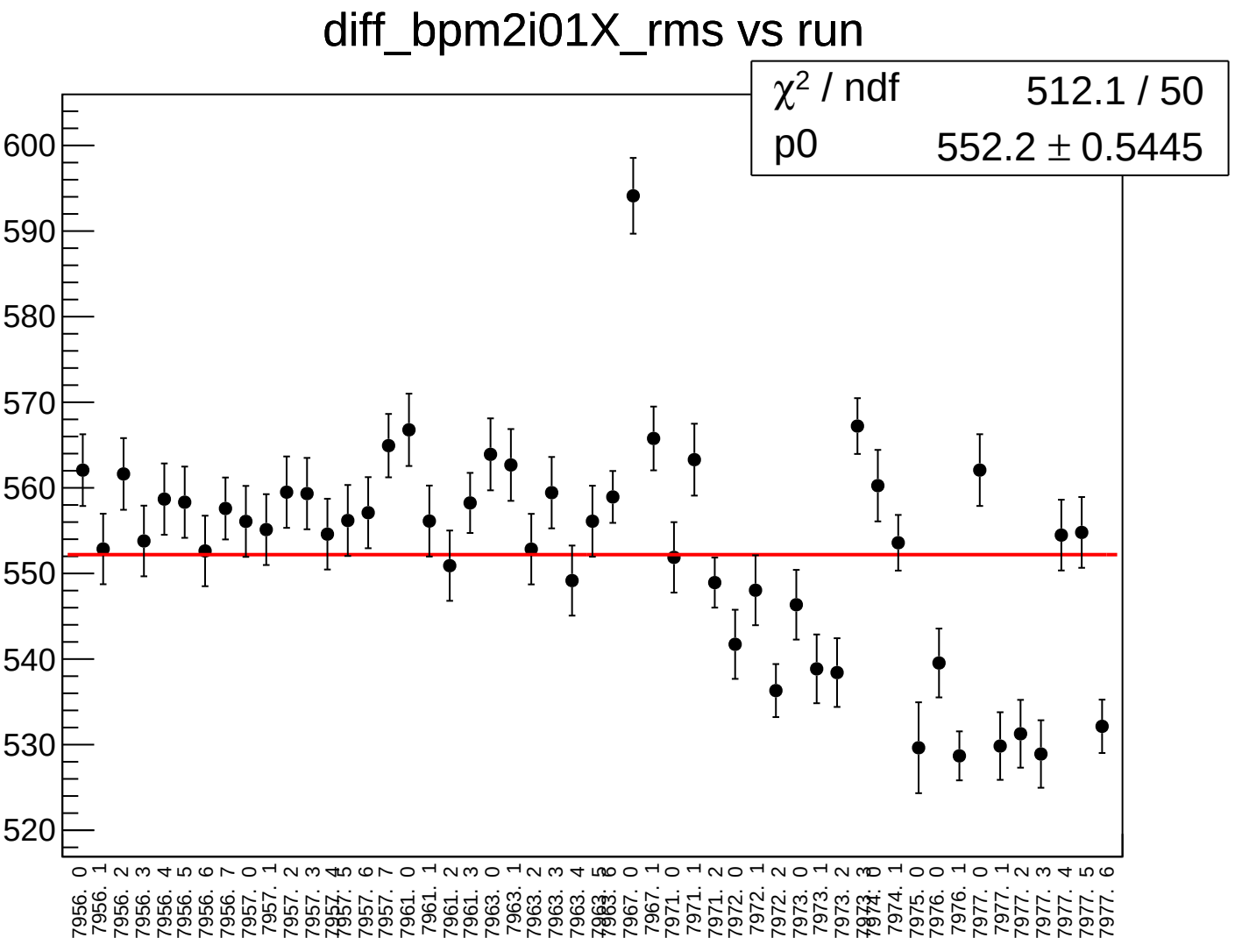
7977. 5
7977. 6


diff_bpm2i01X_mean vs run
χ² / ndf 74 / 50
p0 −4.082 ± 0.77
pull
Entries 51
Mean −179.9
Std Dev 208.7


pull1D
Entries 51
Mean −0.03135
Std Dev 1.204


diff_bpm2i01X_rms vs run
χ² / ndf 512.1 / 50
p0 552.2 ± 0.5445
600
590
580
570
560
550
540
530
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
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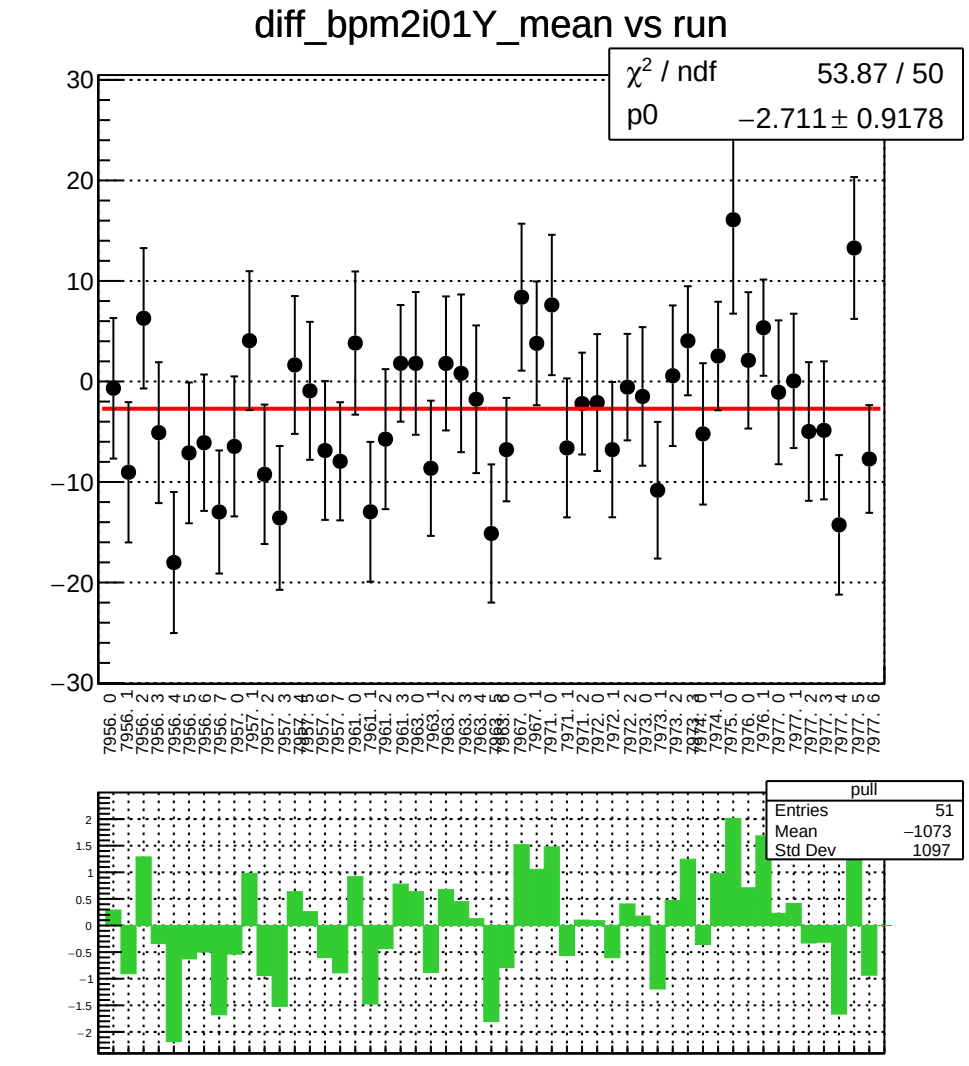
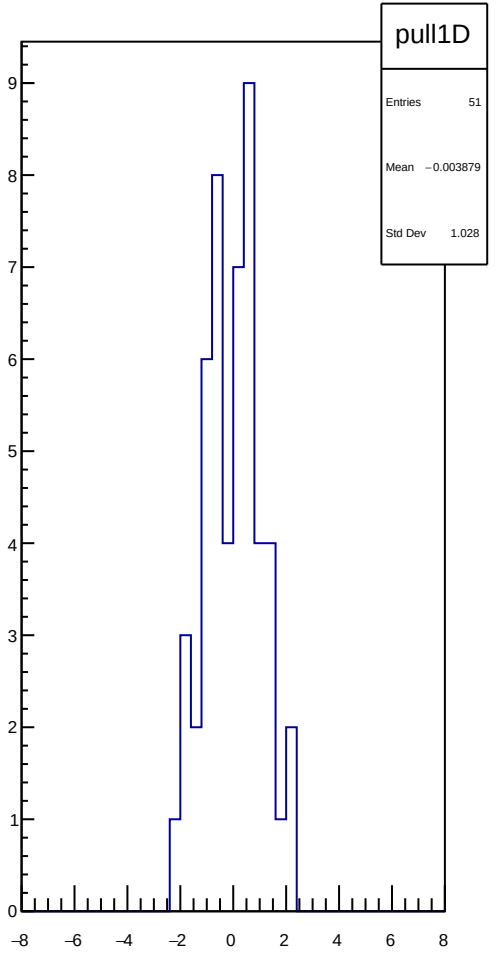
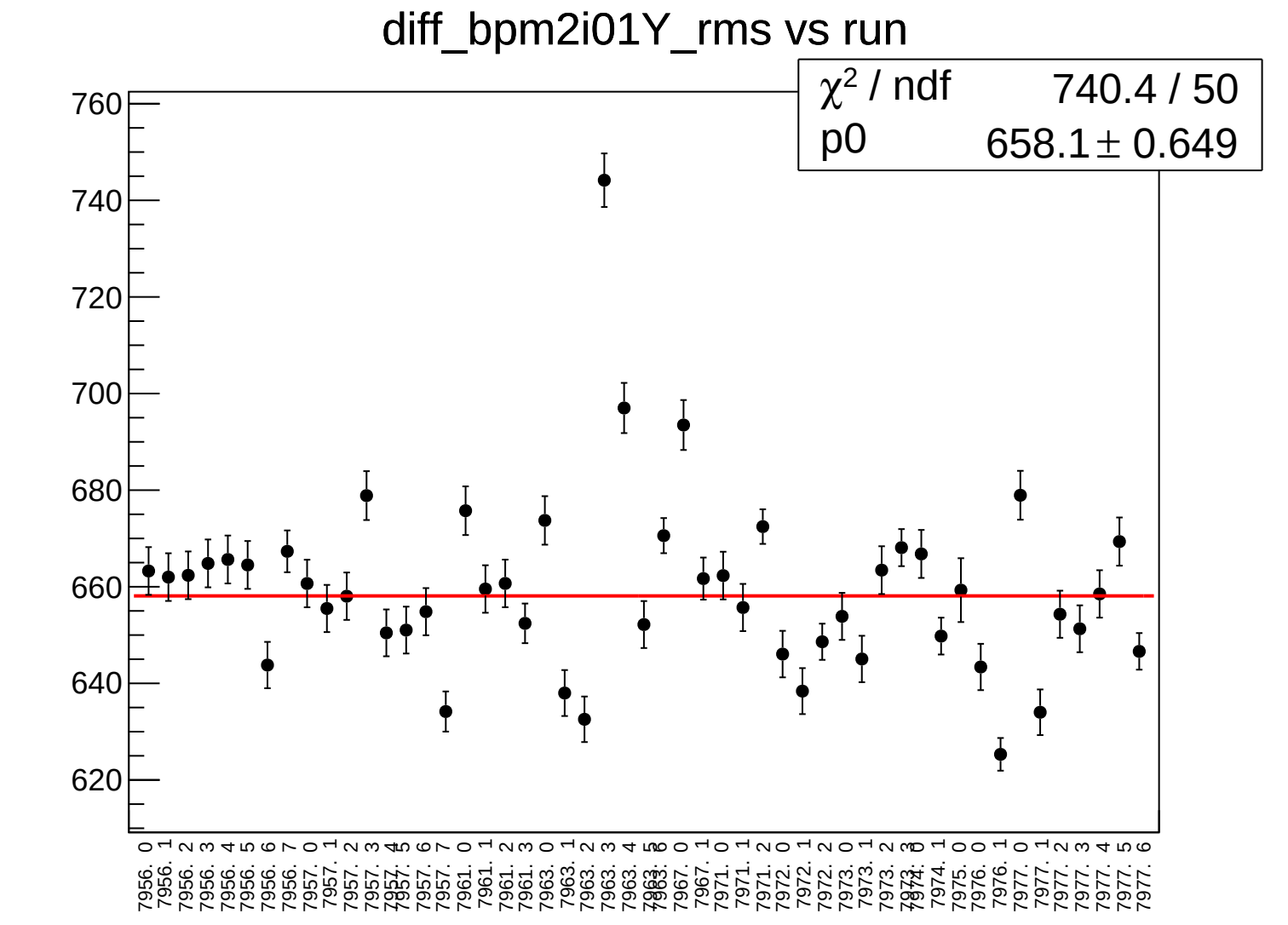
7977. 5
7977. 6


diff_bpm2i01Y_mean vs run
χ² / ndf 53.87 / 50
p0 −2.711 ± 0.9178
pull
Entries 51
Mean −1073
Std Dev 1097


pull1D
Entries 51
Mean −0.003879
Std Dev 1.028


diff_bpm2i01Y_rms vs run
χ² / ndf 740.4 / 50
p0 658.1 ± 0.649
760
740
720
700
680
660
640
620
7956. 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
7961. 3
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7963. 1
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7967. 0
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7973. 2
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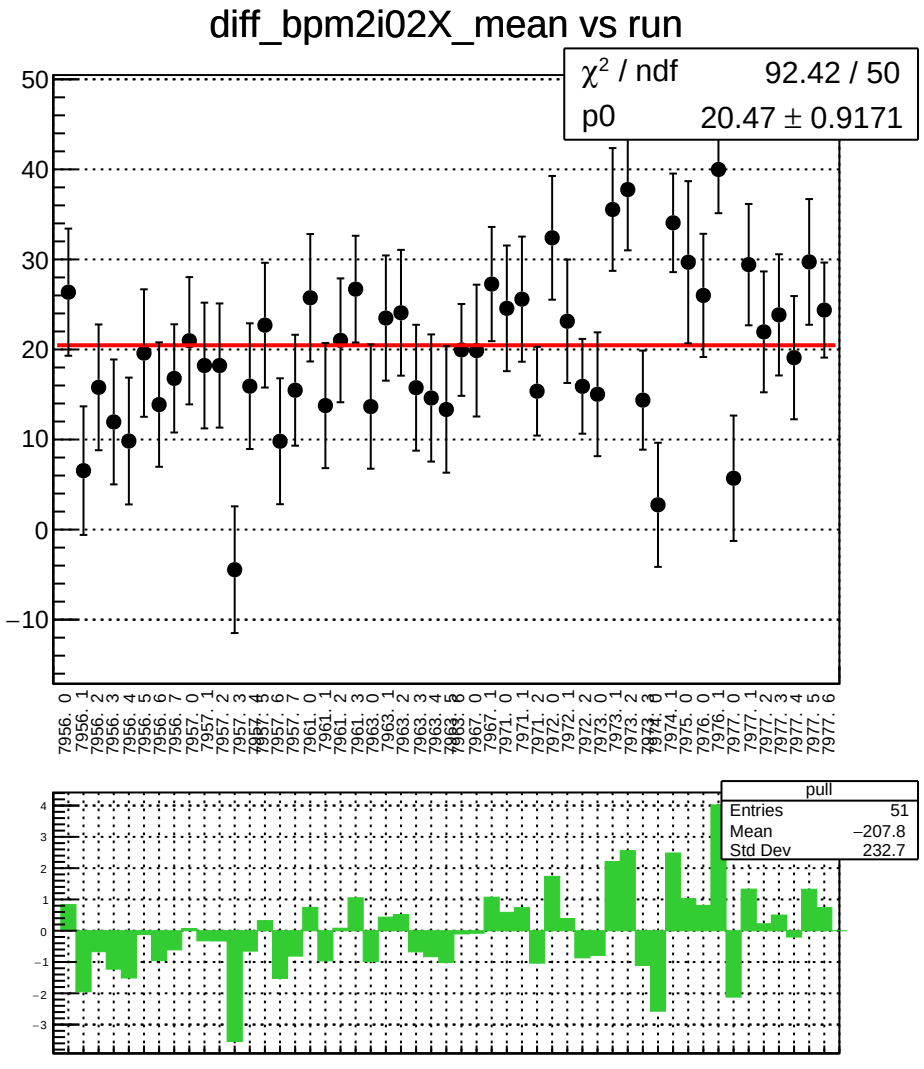
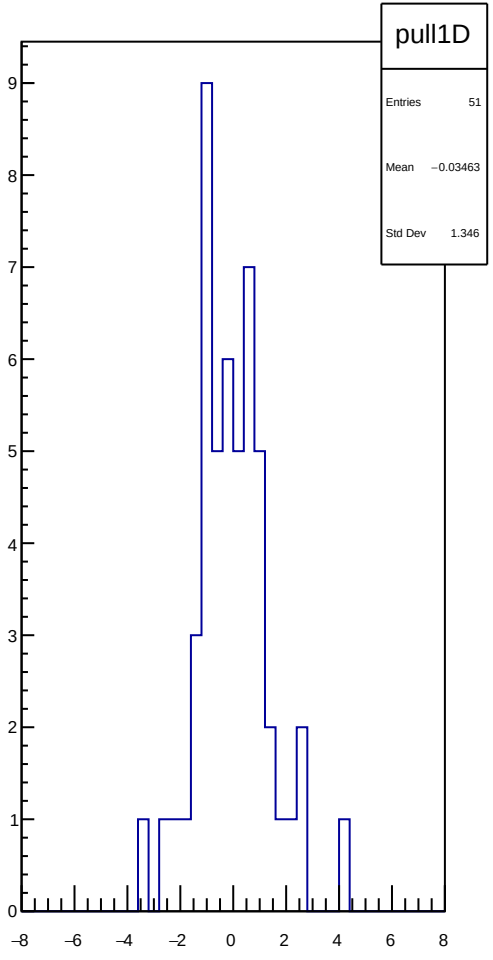
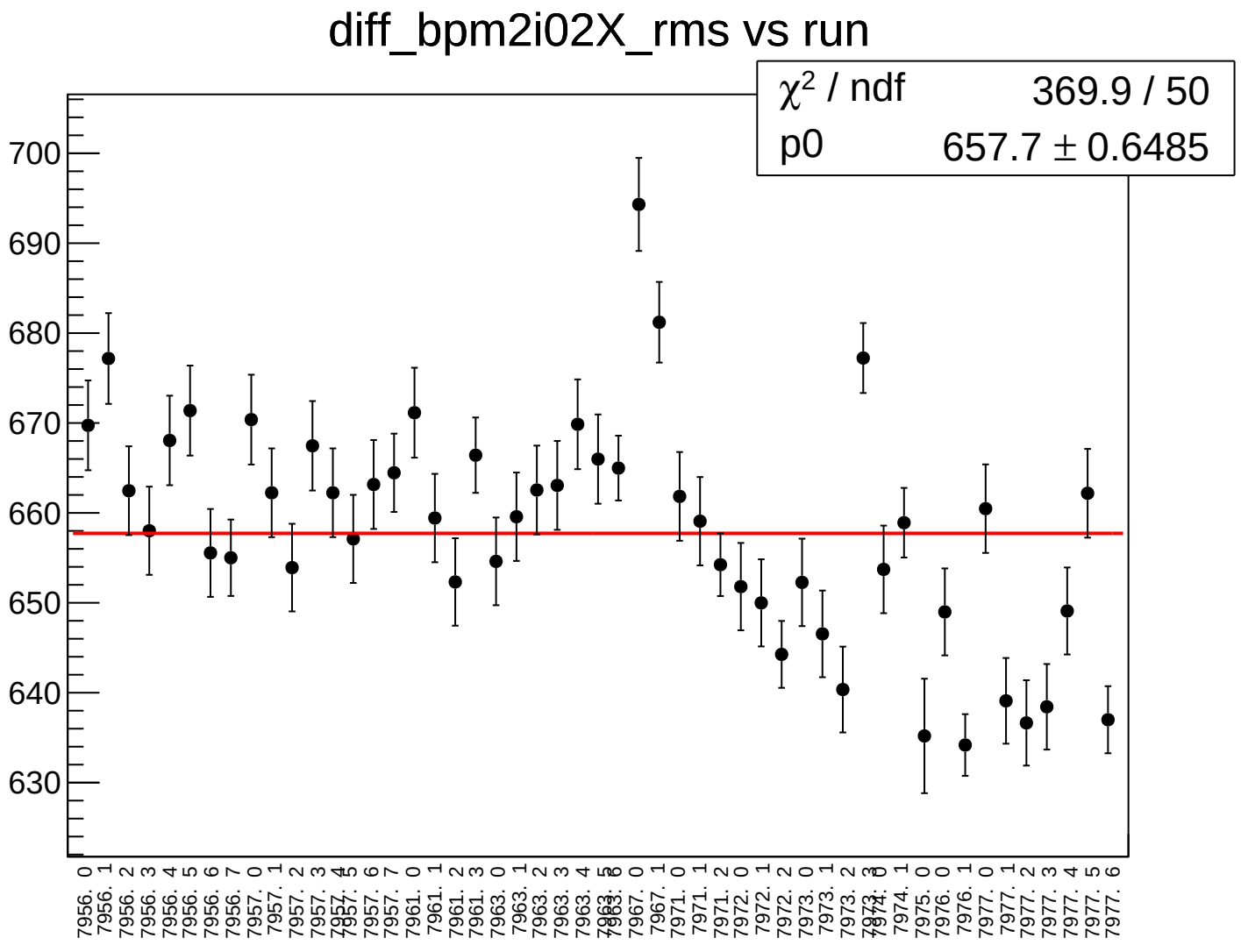
7977. 6


diff_bpm2i02X_mean vs run
χ² / ndf 92.42 / 50
p0 20.47 ± 0.9171
pull
Entries 51
Mean −207.8
Std Dev 232.7


pull1D
Entries 51
Mean −0.03463
Std Dev 1.346


diff_bpm2i02X_rms vs run
χ² / ndf 369.9 / 50
p0 657.7 ± 0.6485
700
690
680
670
660
650
640
630
7956. 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
7972. 0
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7973. 0
7973. 1
7973. 2
7974. 1
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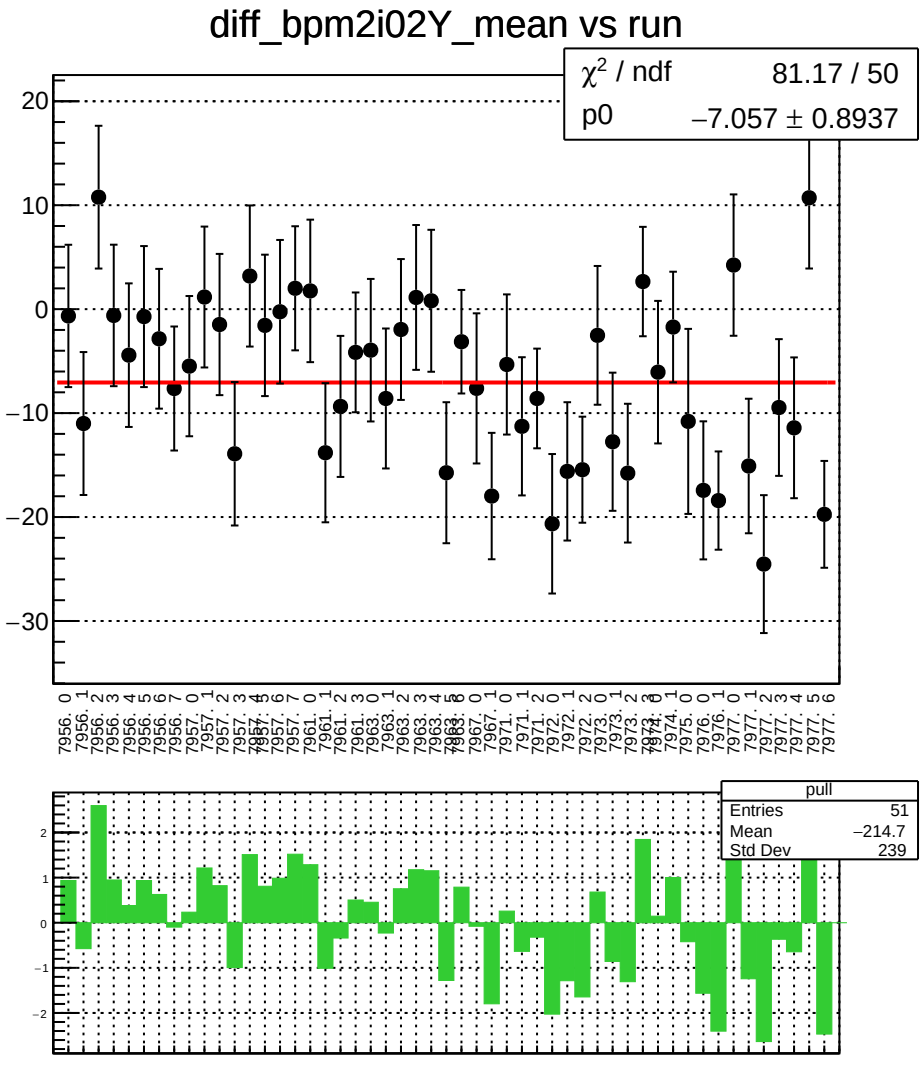
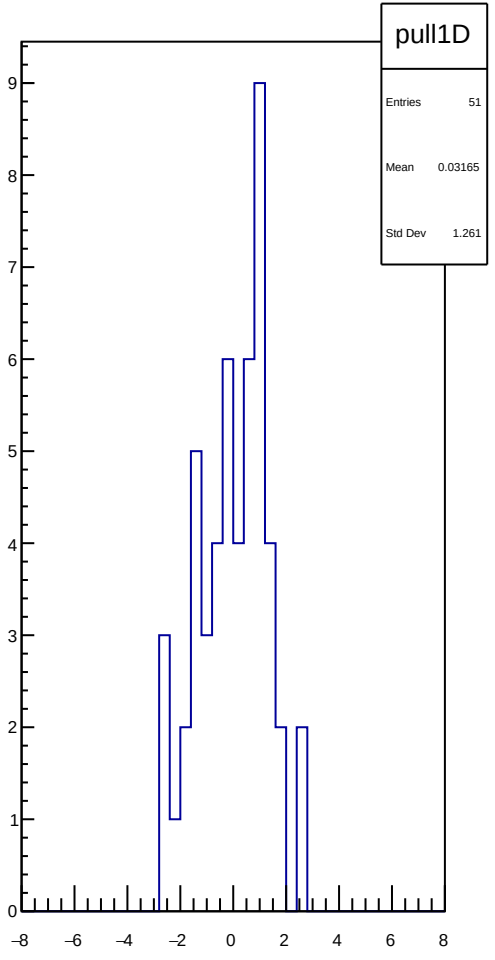
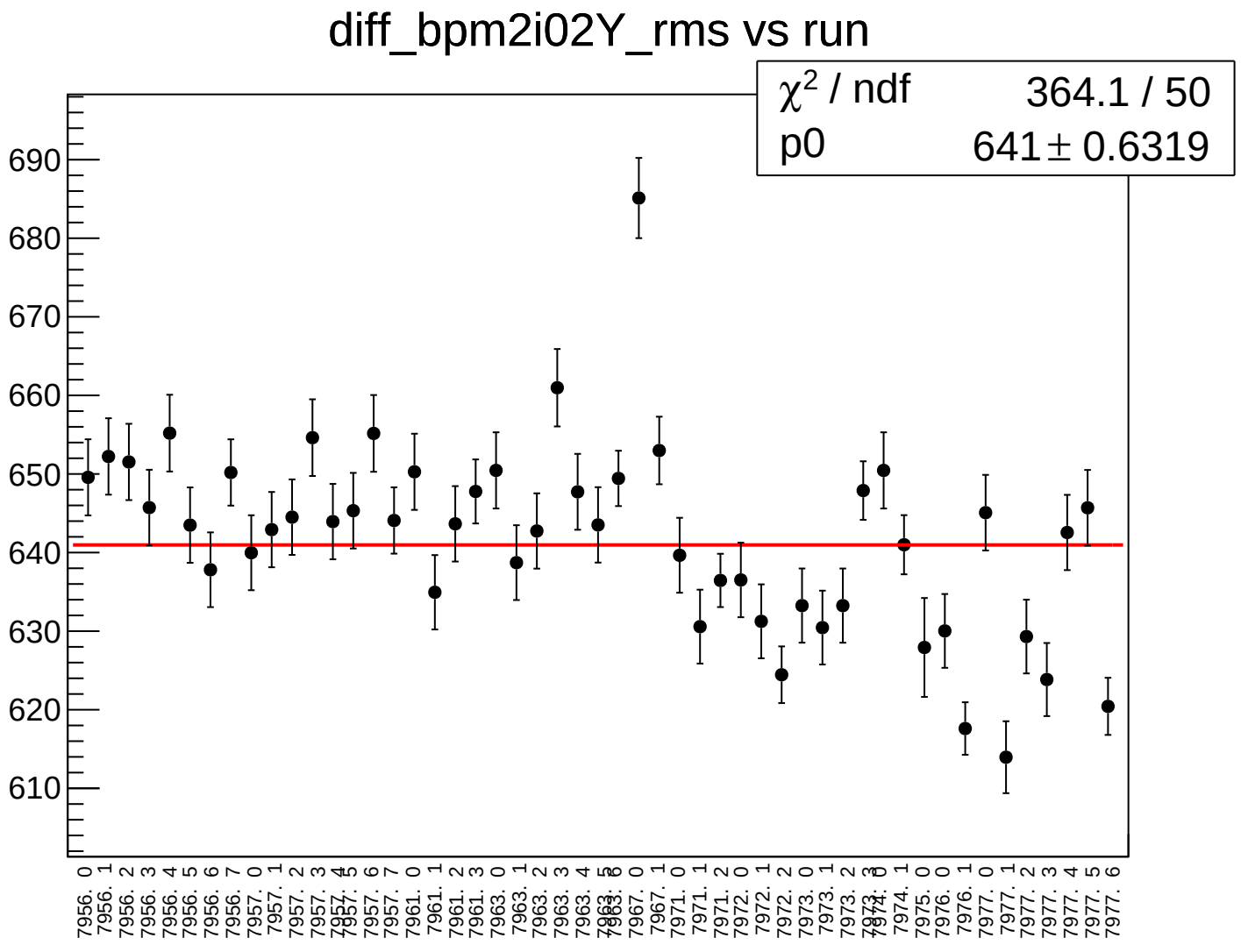
7977. 6


diff_bpm2i02Y_mean vs run
χ² / ndf 81.17 / 50
p0 −7.057 ± 0.8937
pull
Entries 51
Mean −214.7
Std Dev 239


pull1D
Entries 51
Mean 0.03165
Std Dev 1.261


diff_bpm2i02Y_rms vs run
χ² / ndf 364.1 / 50
p0 641 ± 0.6319
690
680
670
660
650
640
630
620
610
7956. 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
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7963. 0
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7967. 1
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7973. 1
7973. 2
7974. 1
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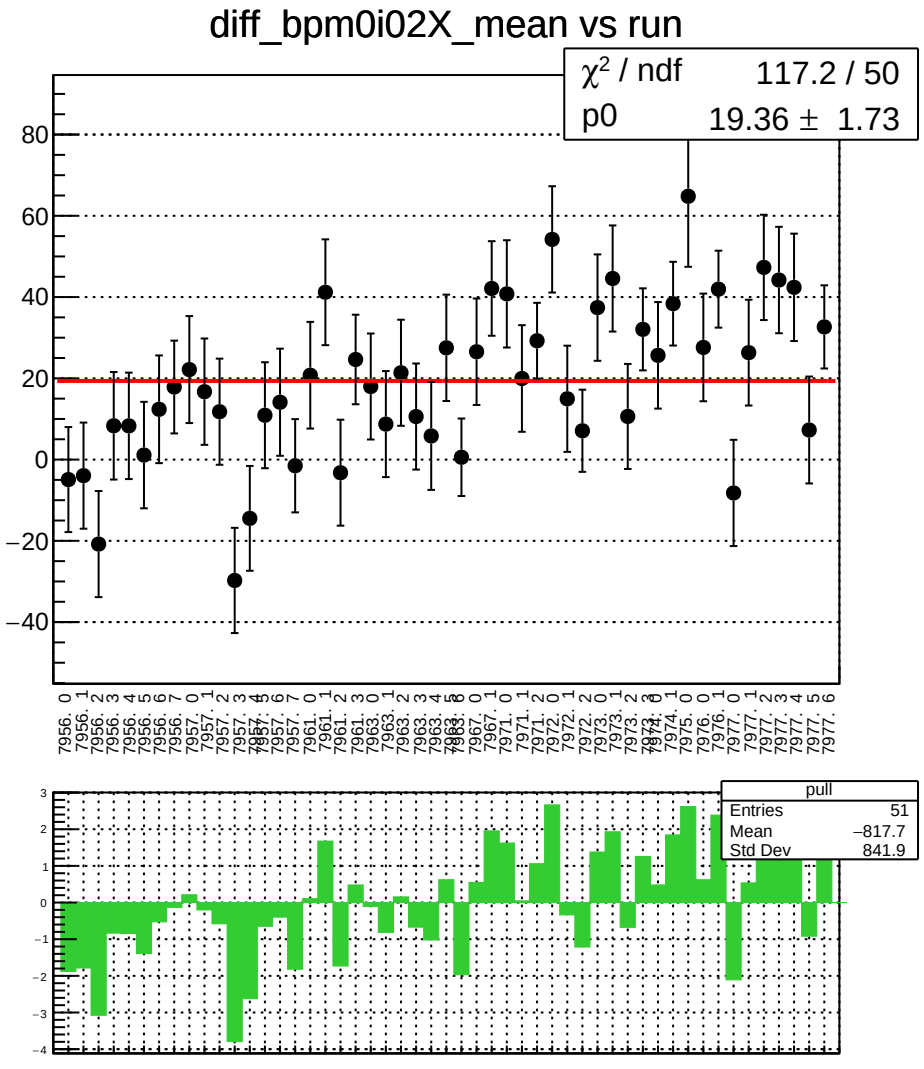
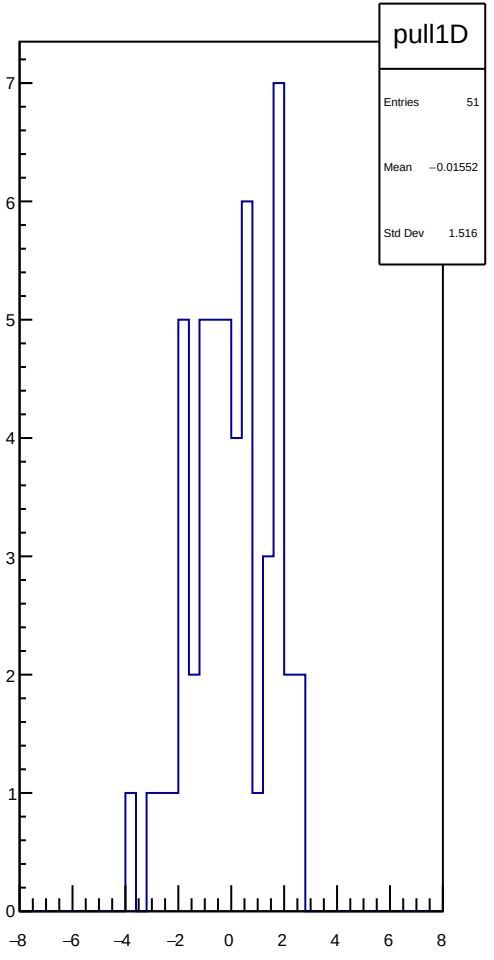
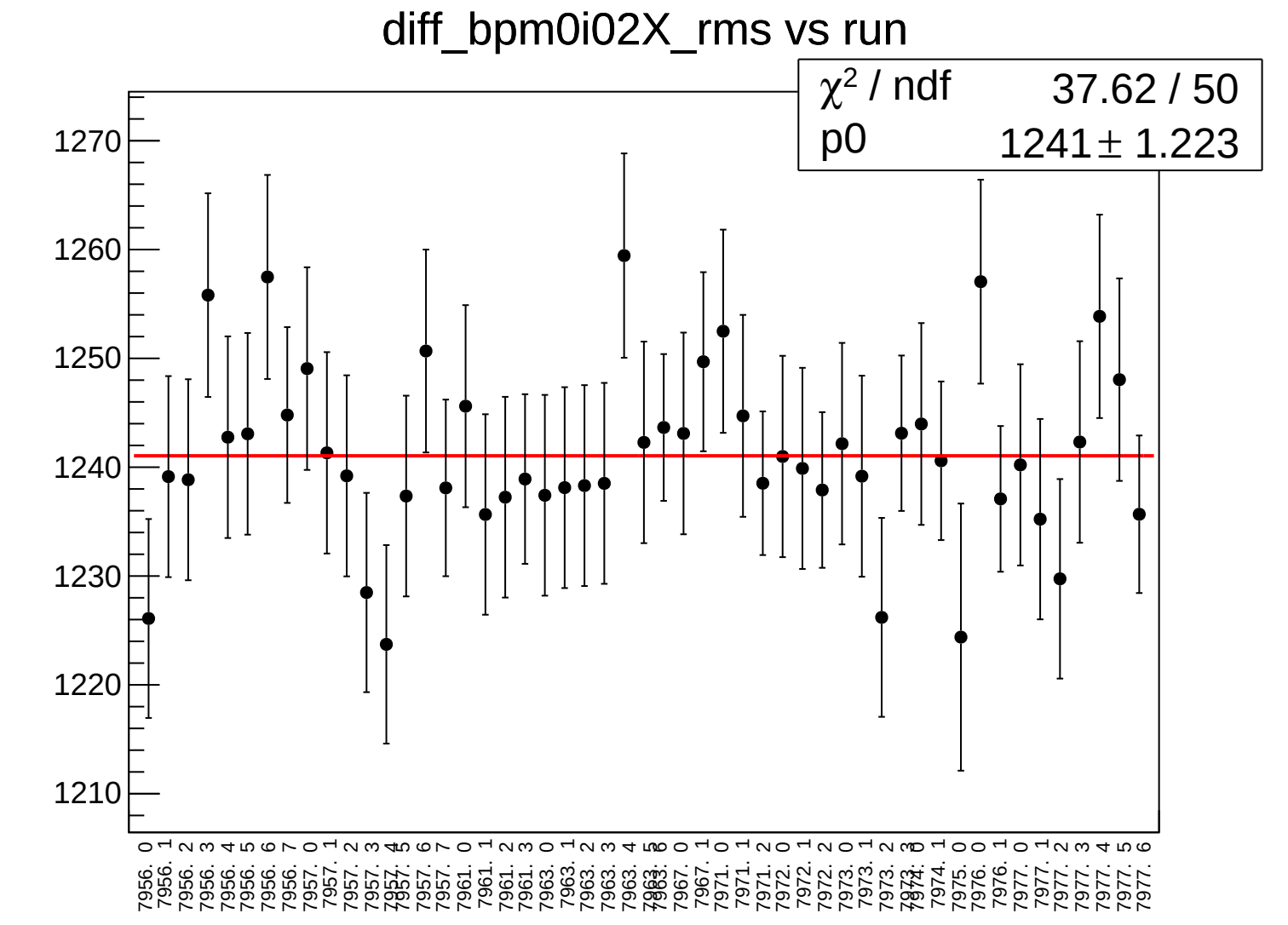
7977. 6


diff_bpm0i02X_mean vs run
χ² / ndf 117.2 / 50
p0 19.36 ± 1.73
pull
Entries 51
Mean −817.7
Std Dev 841.9


pull1D
Entries 51
Mean −0.01552
Std Dev 1.516


diff_bpm0i02X_rms vs run
χ² / ndf 37.62 / 50
p0 1241 ± 1.223
1270
1260
1250
1240
1230
1220
1210
7956. 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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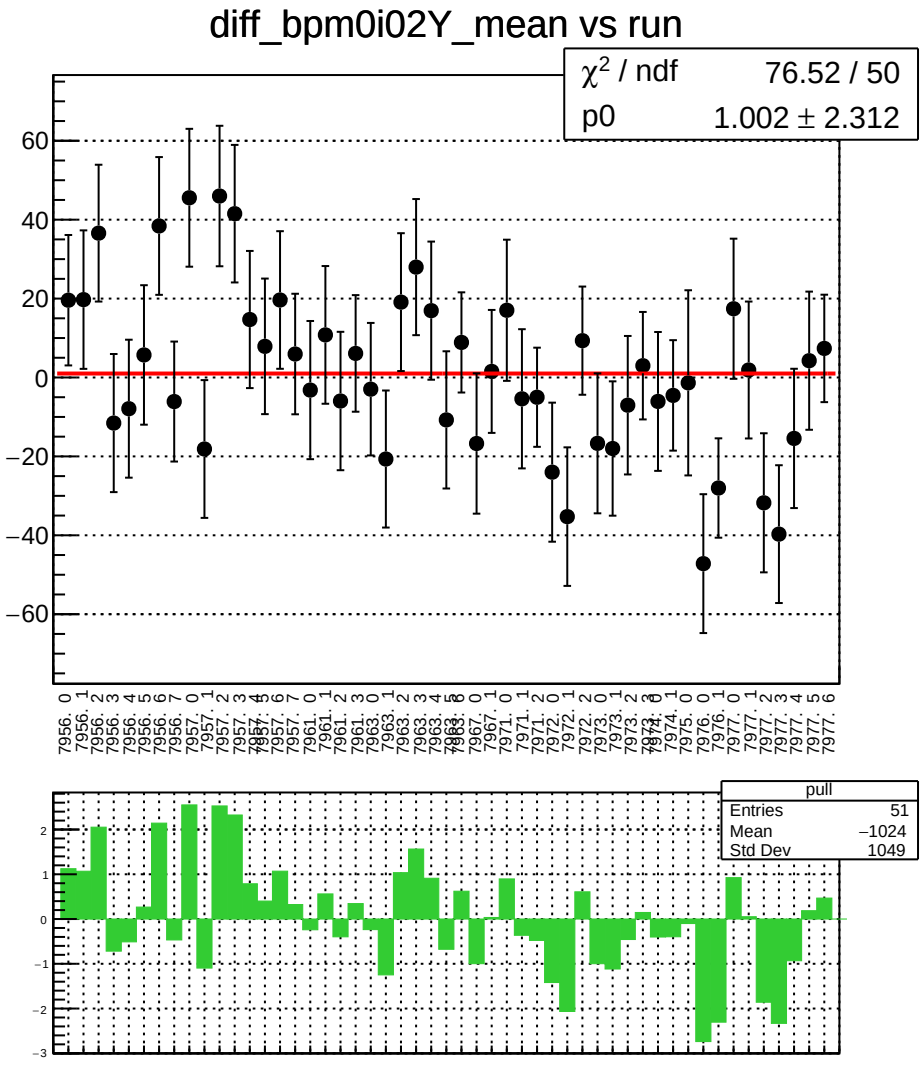
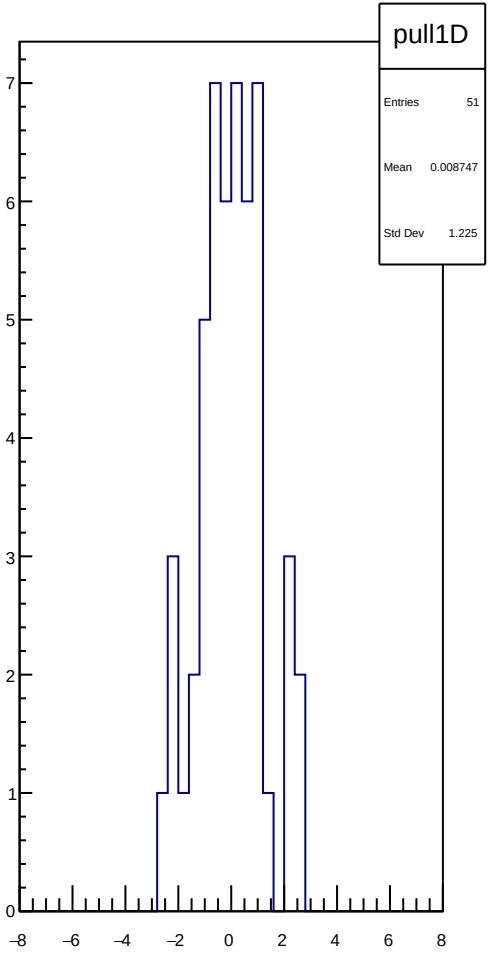
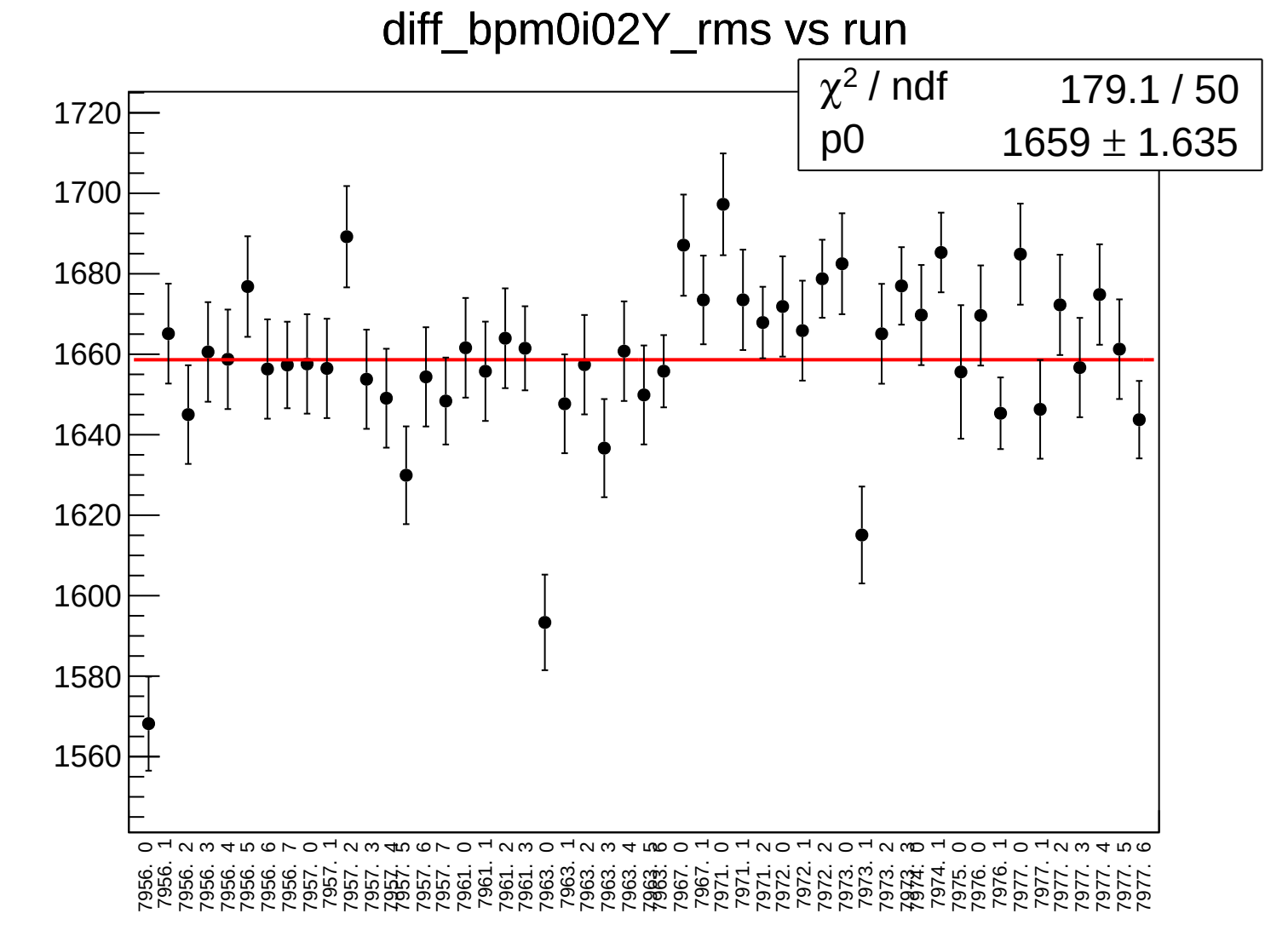
7977. 5
7977. 6


diff_bpm0i02Y_mean vs run
χ² / ndf 76.52 / 50
p0 1.002 ± 2.312
pull
Entries 51
Mean −1024
Std Dev 1049


pull1D
Entries 51
Mean 0.008747
Std Dev 1.225


diff_bpm0i02Y_rms vs run
χ² / ndf 179.1 / 50
p0 1659 ± 1.635
1720
1700
1680
1660
1640
1620
1600
1580
1560
7956. 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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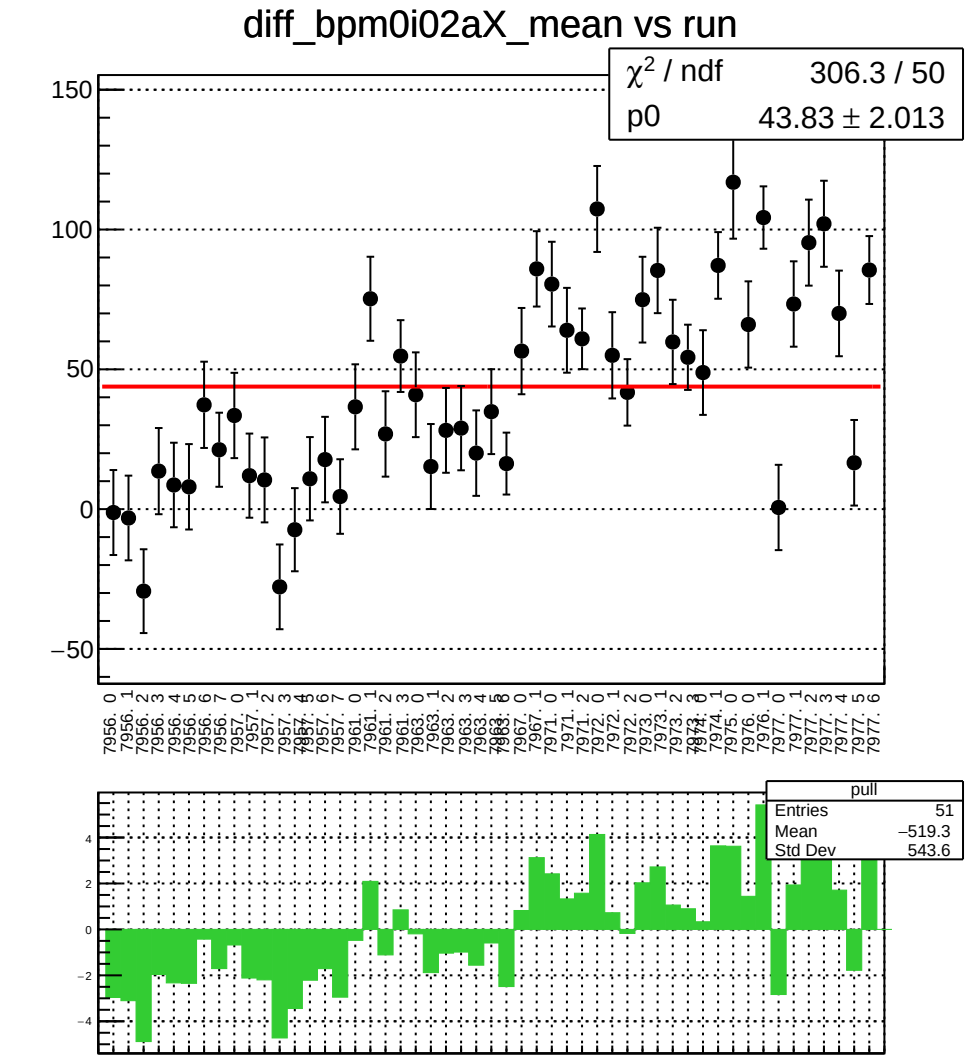
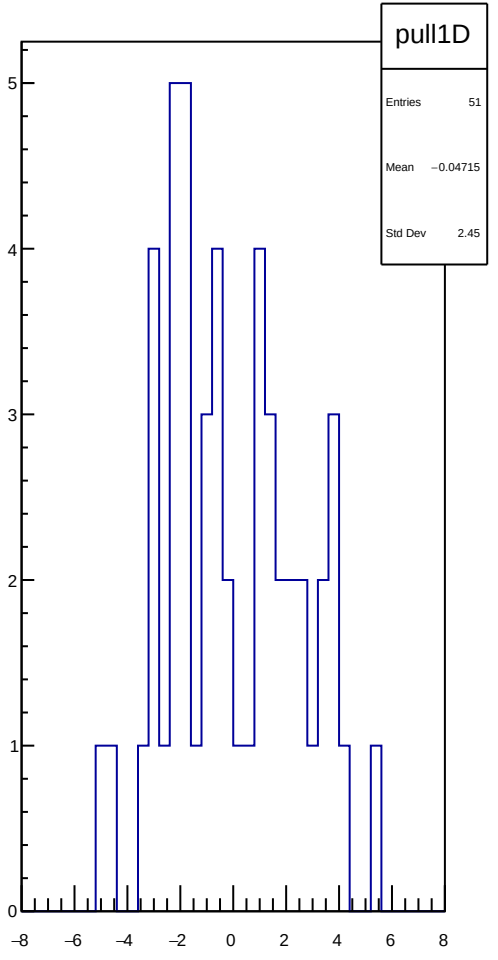
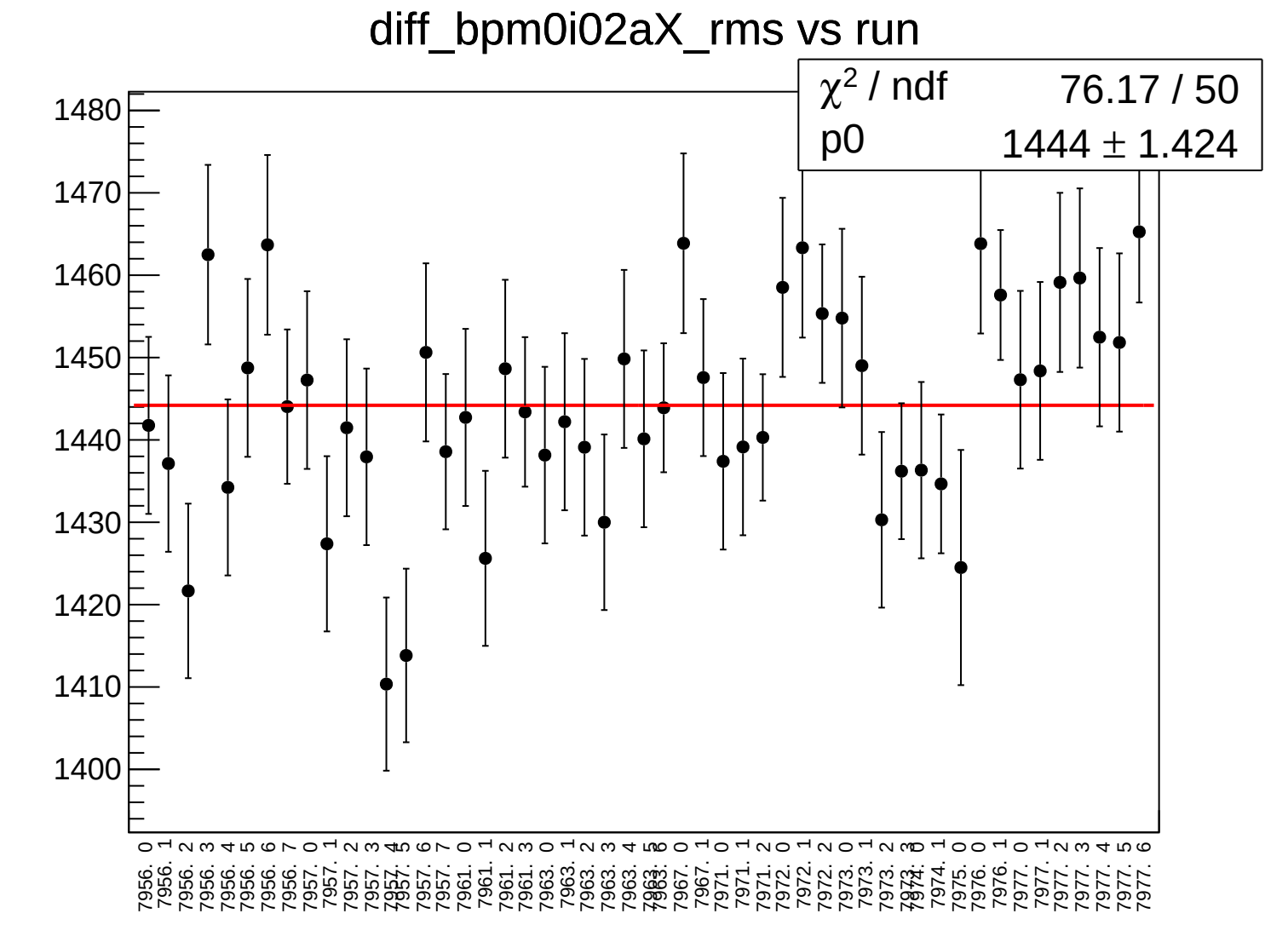
7977. 6


diff_bpm0i02aX_mean vs run
χ² / ndf 306.3 / 50
p0 43.83 ± 2.013
150
100
50
0
−50
pull
Entries 51
Mean −519.3
Std Dev 543.6
4
2
0
−2
−4


pull1D
Entries 51
Mean −0.04715
Std Dev 2.45
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm0i02aX_rms vs run
χ² / ndf 76.17 / 50
p0 1444 ± 1.424
1480
1470
1460
1450
1440
1430
1420
1410
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
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7977. 2
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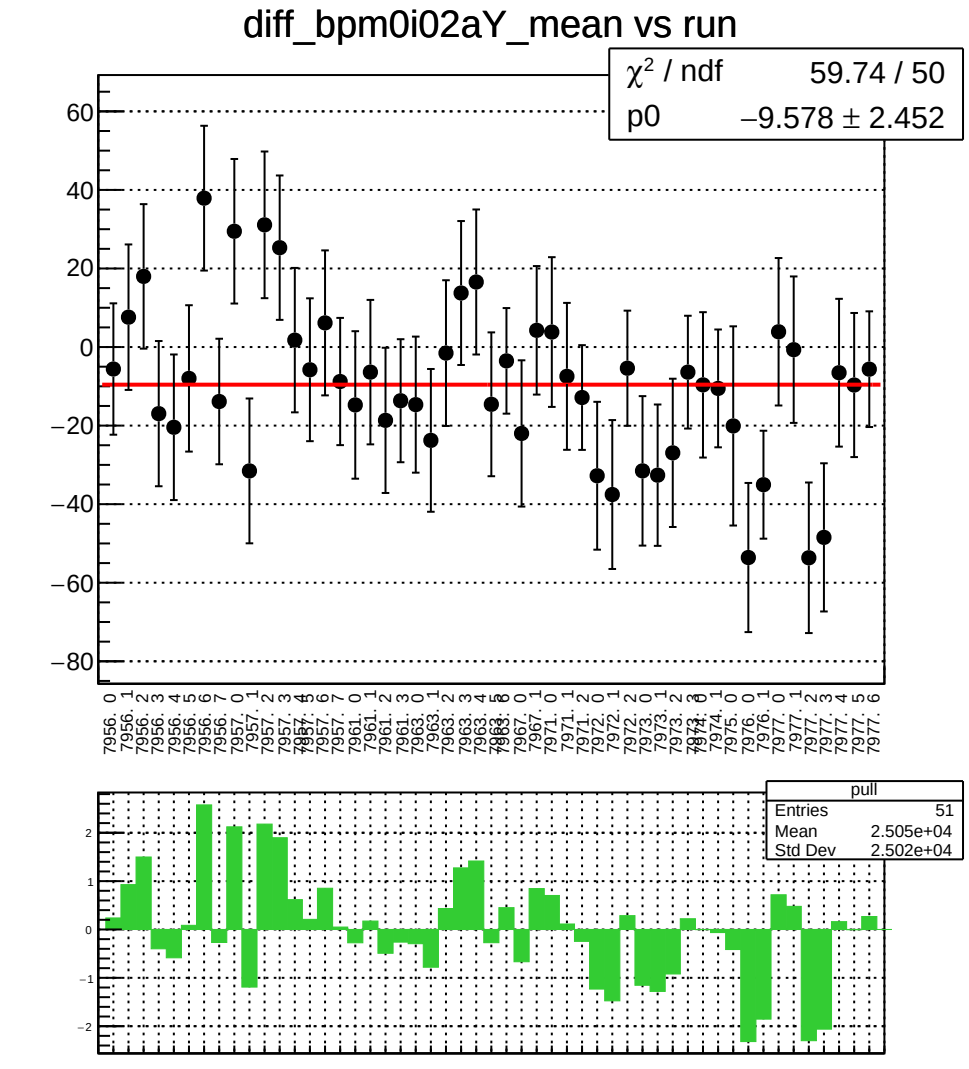
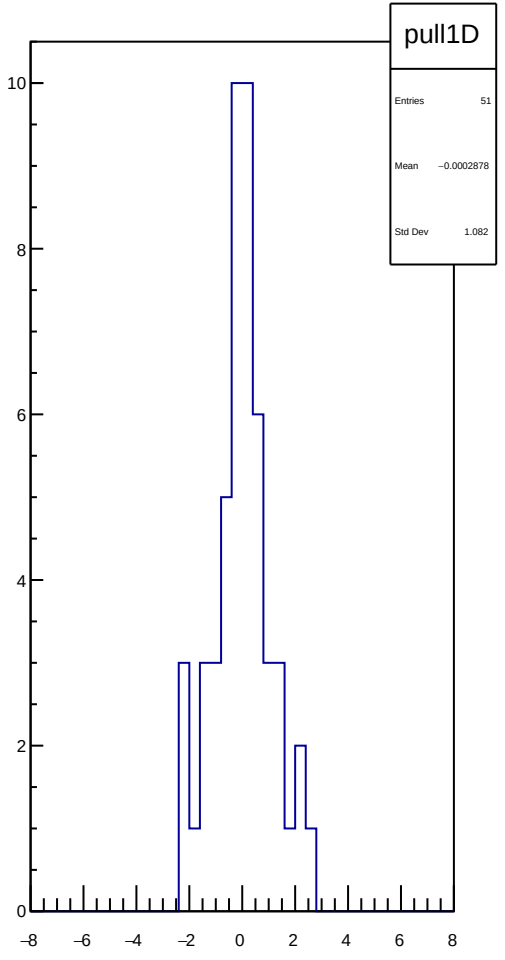
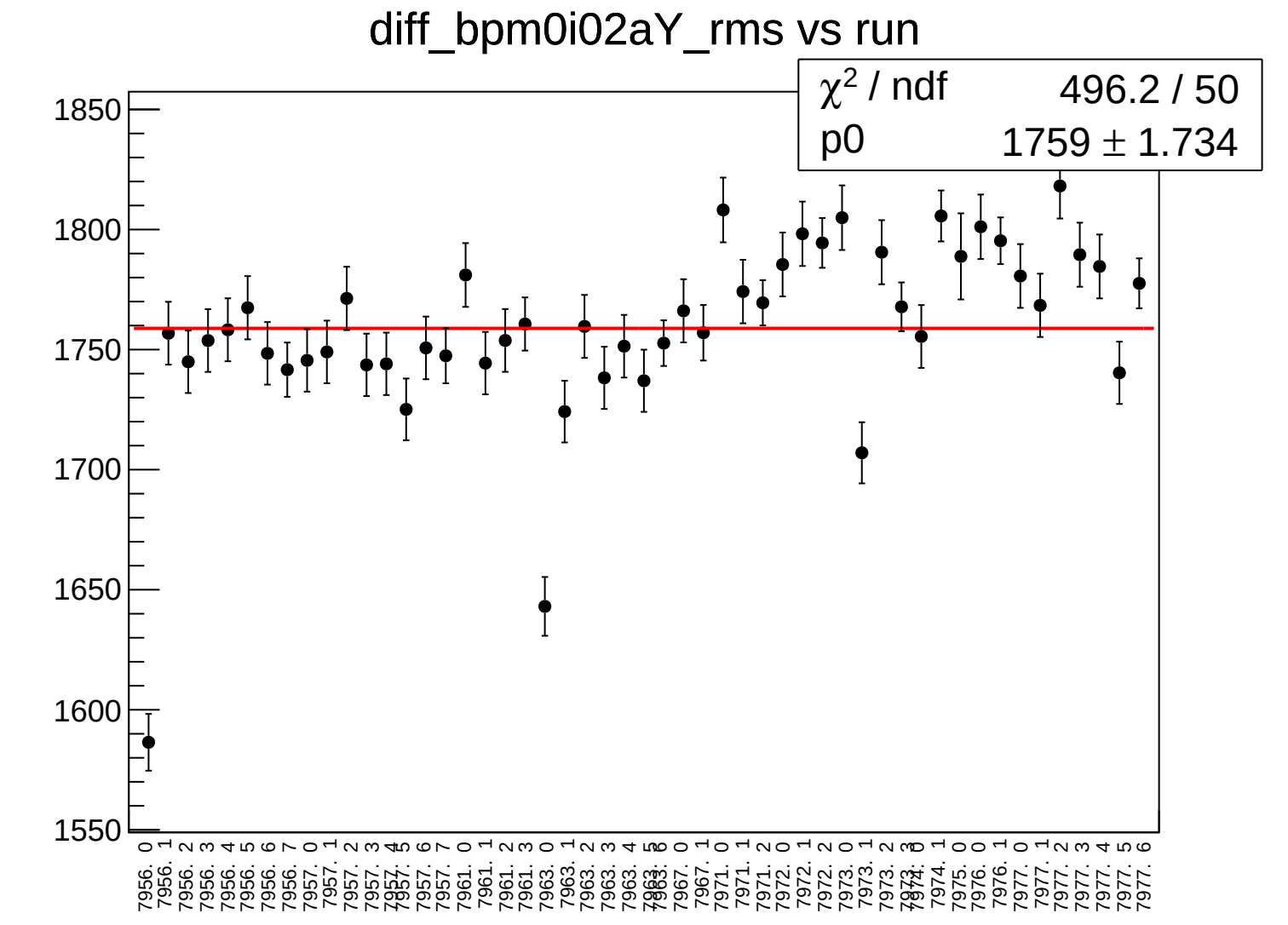
7977. 5
7977. 6


diff_bpm0i02aY_mean vs run
χ² / ndf 59.74 / 50
p0 −9.578 ± 2.452
pull
Entries 51
Mean 2.505e+04
Std Dev 2.502e+04


pull1D
Entries 51
Mean −0.0002878
Std Dev 1.082


diff_bpm0i02aY_rms vs run
χ² / ndf 496.2 / 50
p0 1759 ± 1.734
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
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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
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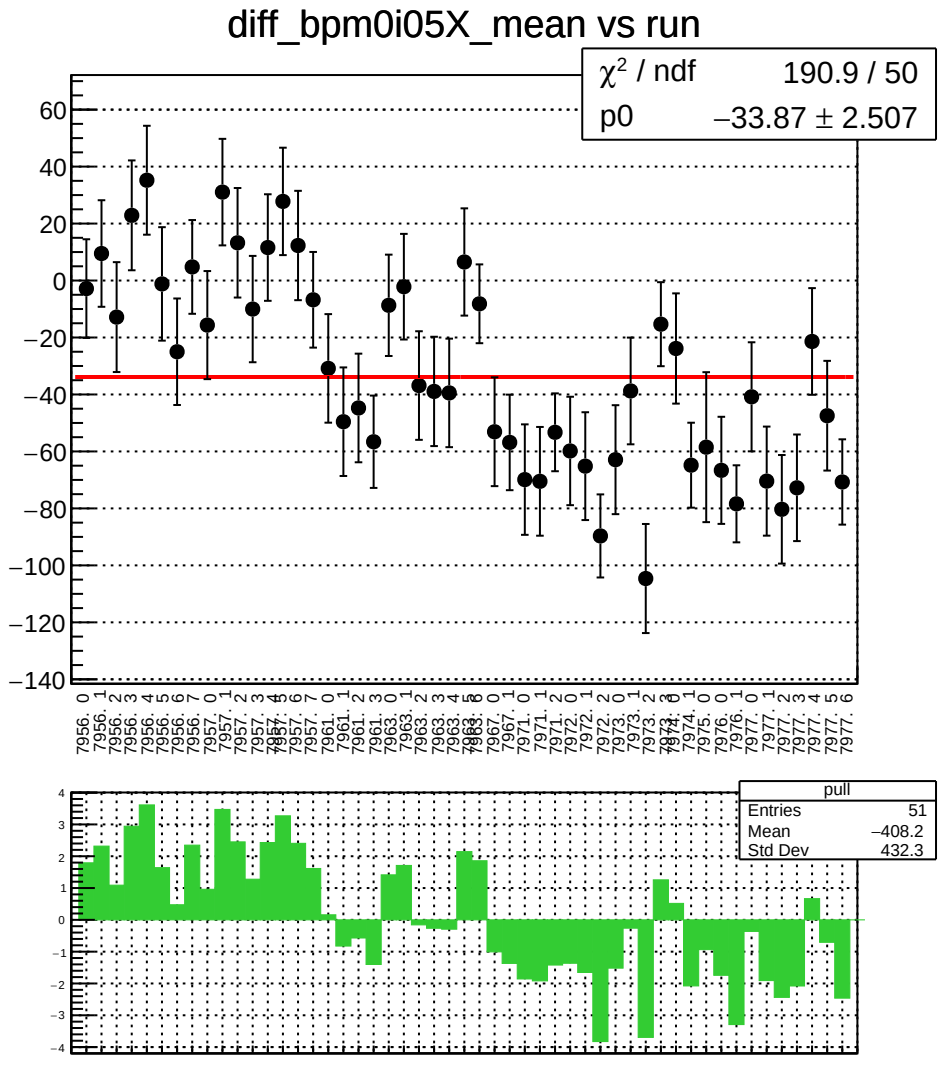
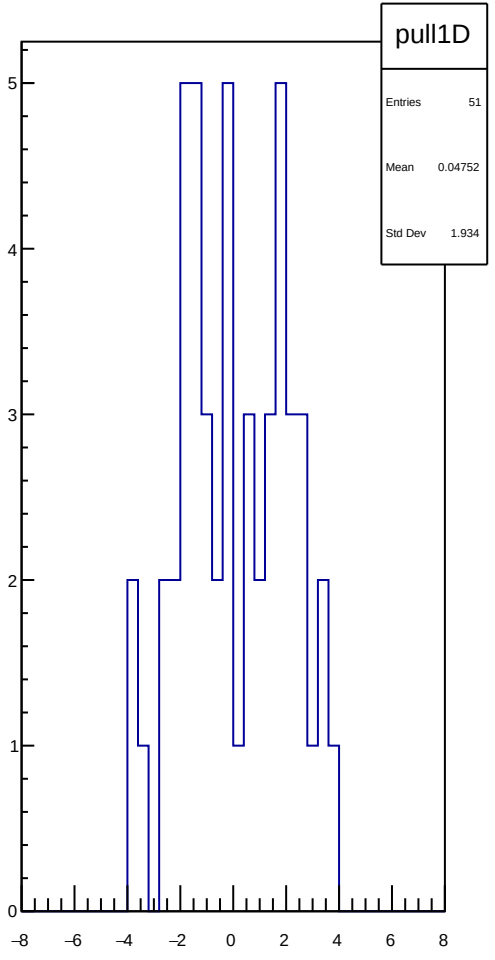
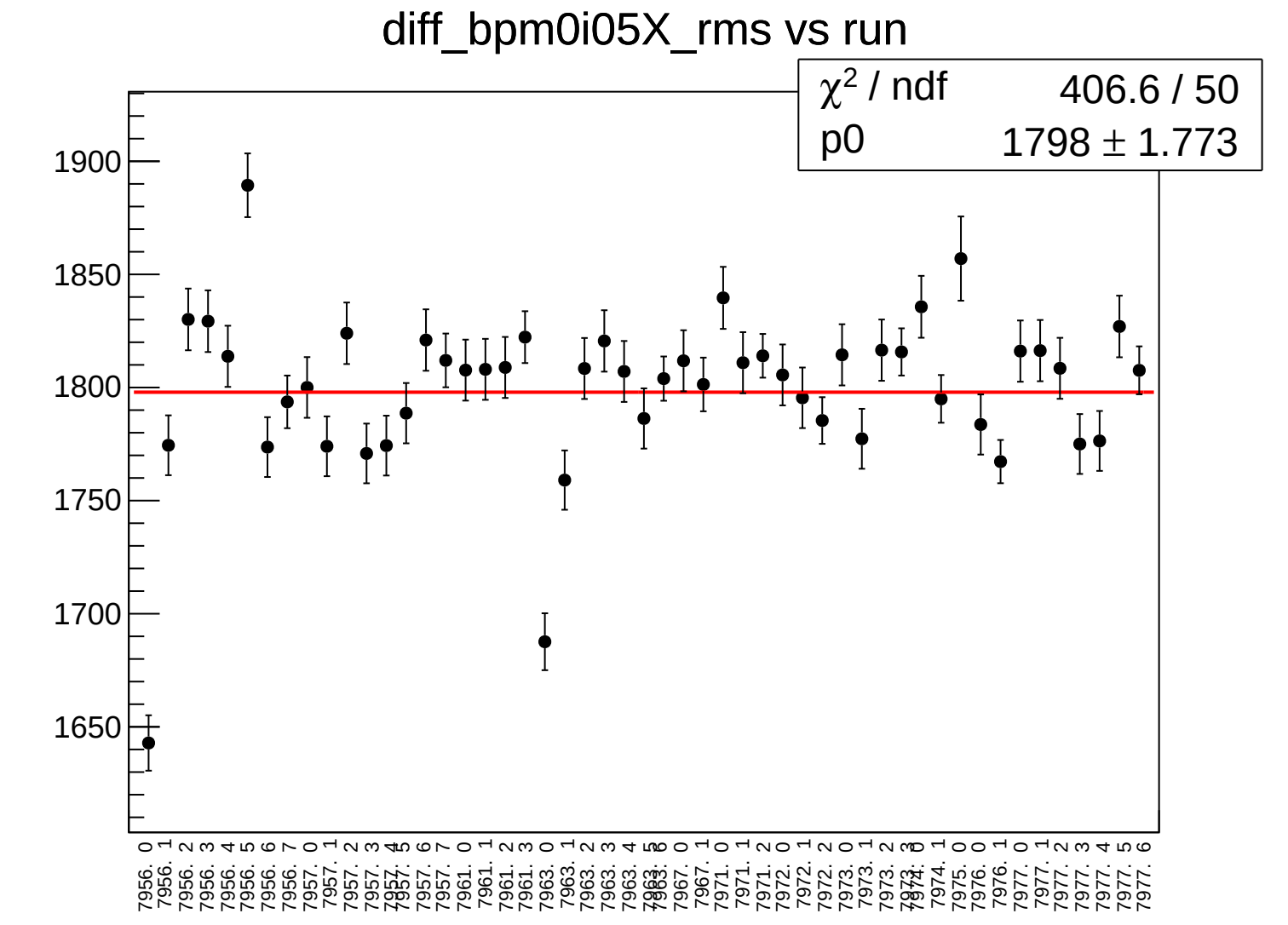
7977. 6


diff_bpm0i05X_mean vs run
χ² / ndf 190.9 / 50
p0 −33.87 ± 2.507
pull
Entries 51
Mean −408.2
Std Dev 432.3


pull1D
Entries 51
Mean 0.04752
Std Dev 1.934


diff_bpm0i05X_rms vs run
χ² / ndf 406.6 / 50
p0 1798 ± 1.773
1900
1850
1800
1750
1700
1650
7956. 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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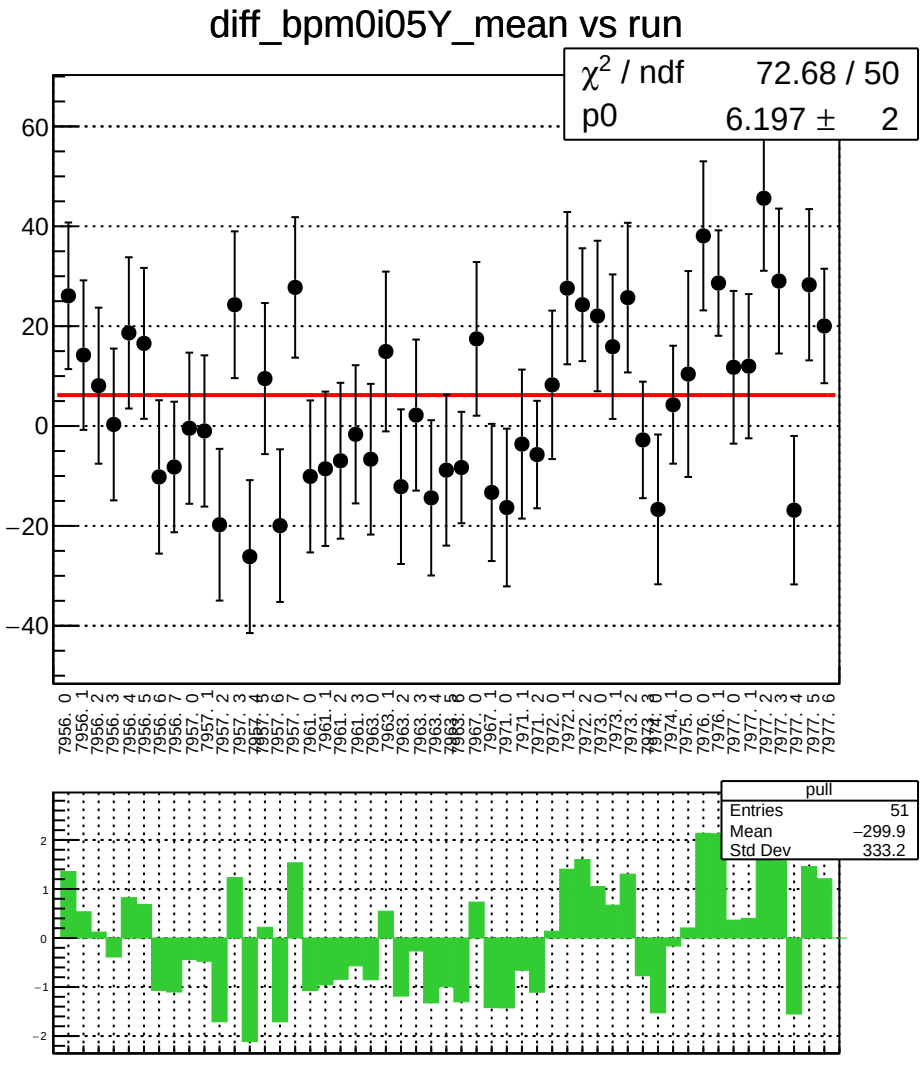
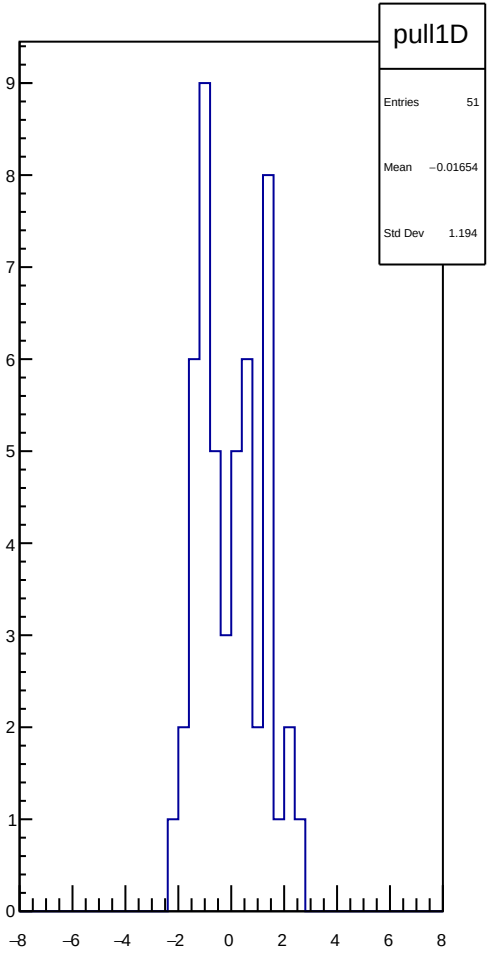
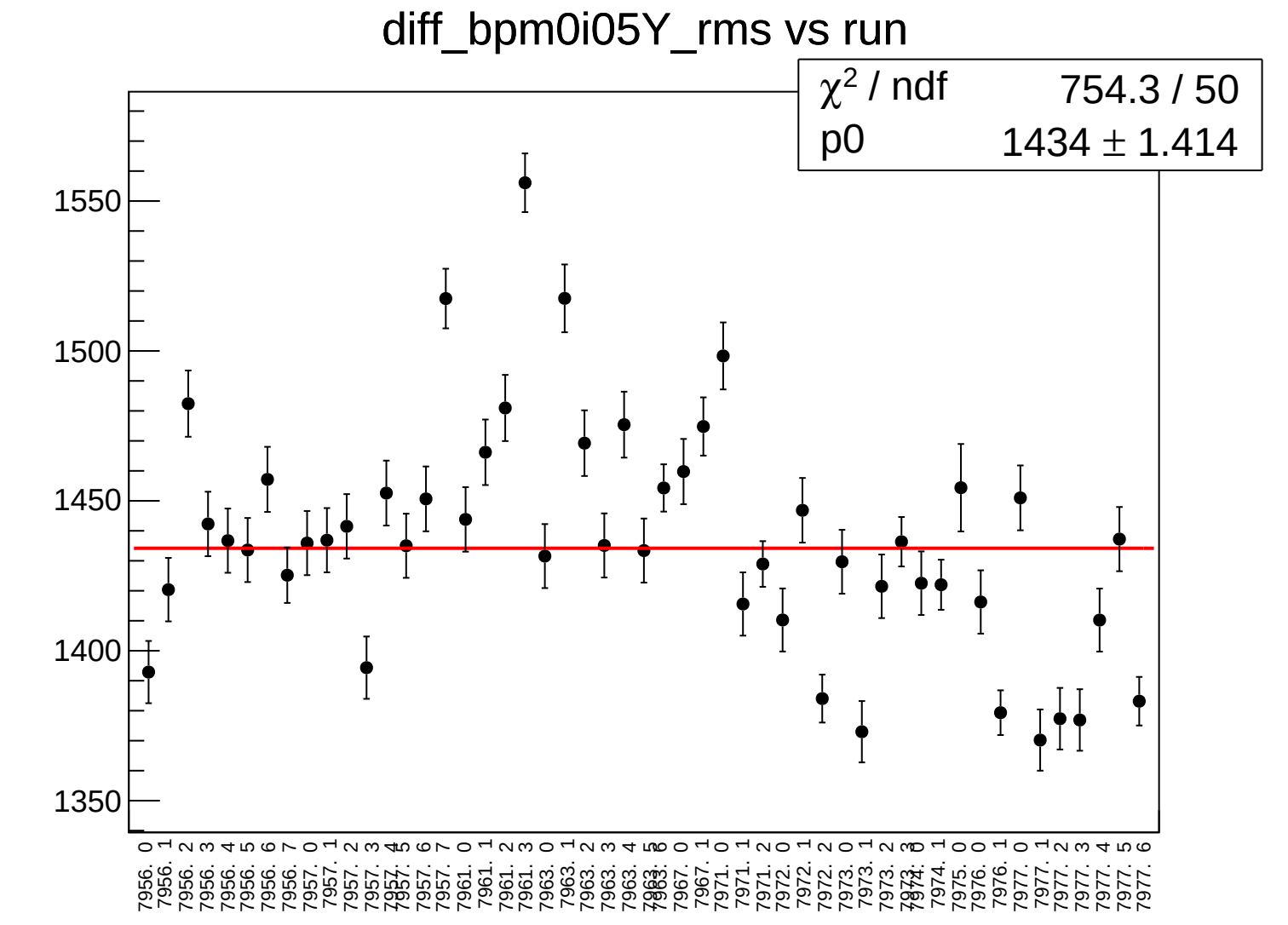
7977. 5
7977. 6


diff_bpm0i05Y_mean vs run
χ² / ndf 72.68 / 50
p0 6.197 ± 2
pull
Entries 51
Mean −299.9
Std Dev 333.2


pull1D
Entries 51
Mean −0.01654
Std Dev 1.194


diff_bpm0i05Y_rms vs run
χ² / ndf 754.3 / 50
p0 1434 ± 1.414
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
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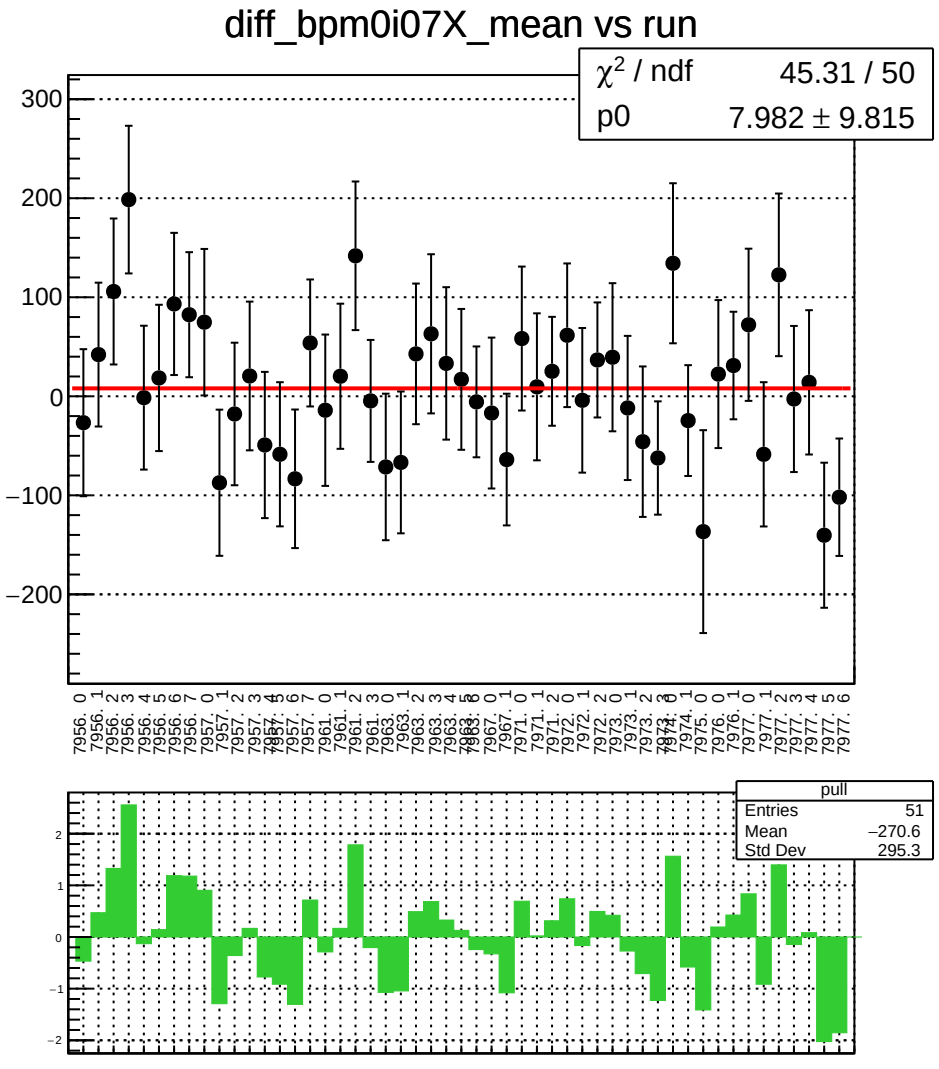
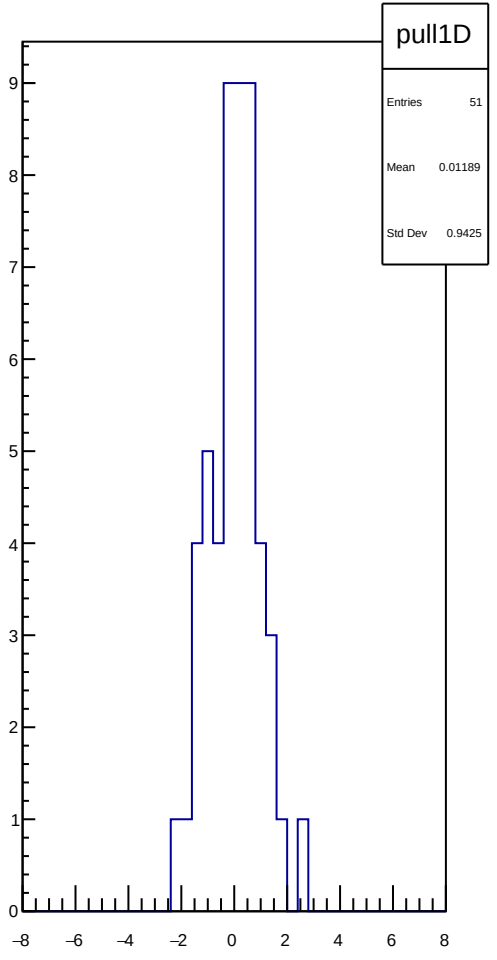
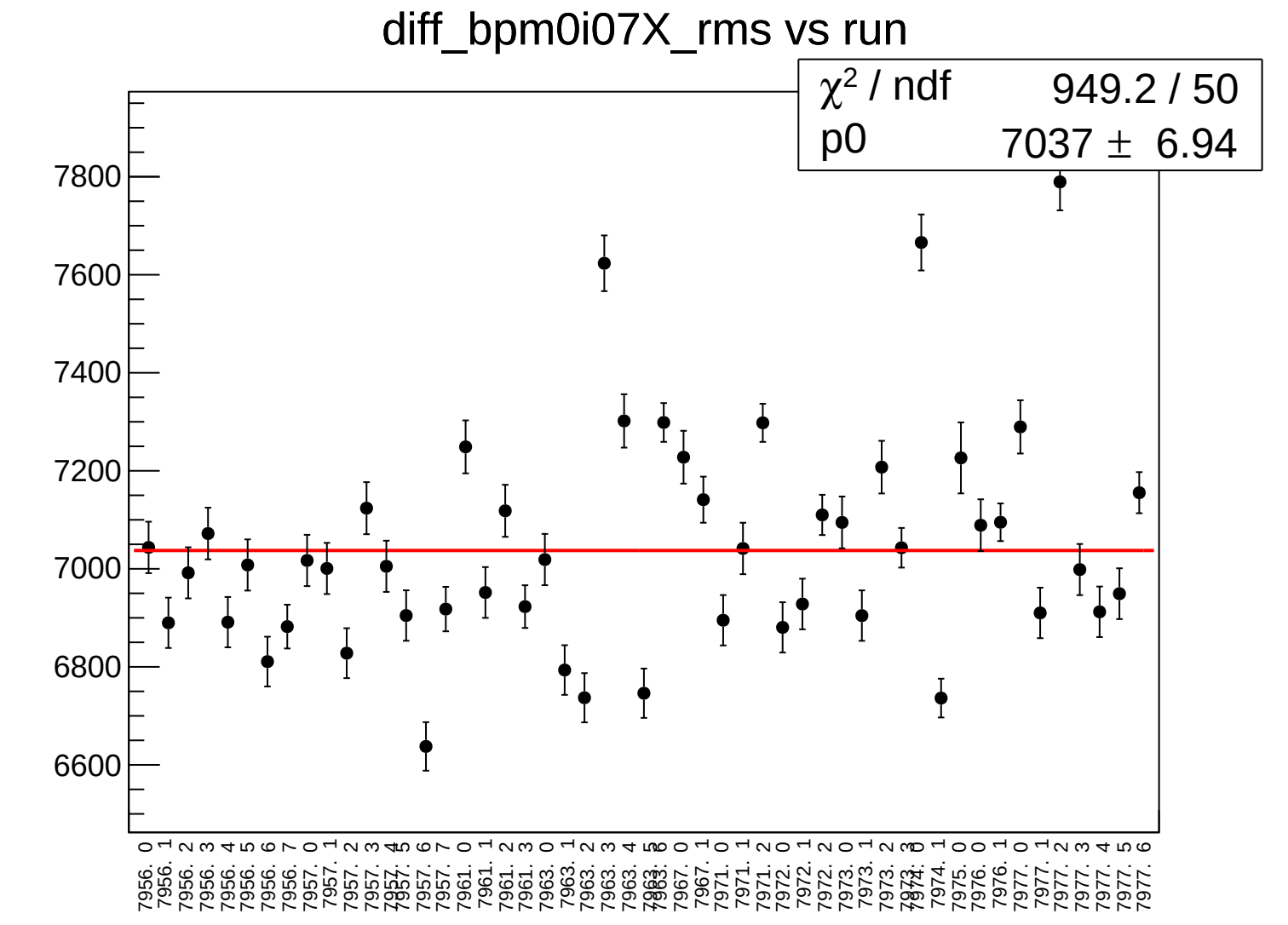
7977. 5
7977. 6


diff_bpm0i07X_mean vs run
χ² / ndf 45.31 / 50
p0 7.982 ± 9.815
pull
Entries 51
Mean −270.6
Std Dev 295.3


pull1D
Entries 51
Mean 0.01189
Std Dev 0.9425


diff_bpm0i07X_rms vs run
χ² / ndf 949.2 / 50
p0 7037 ± 6.94
7800
7600
7400
7200
7000
6800
6600
7956. 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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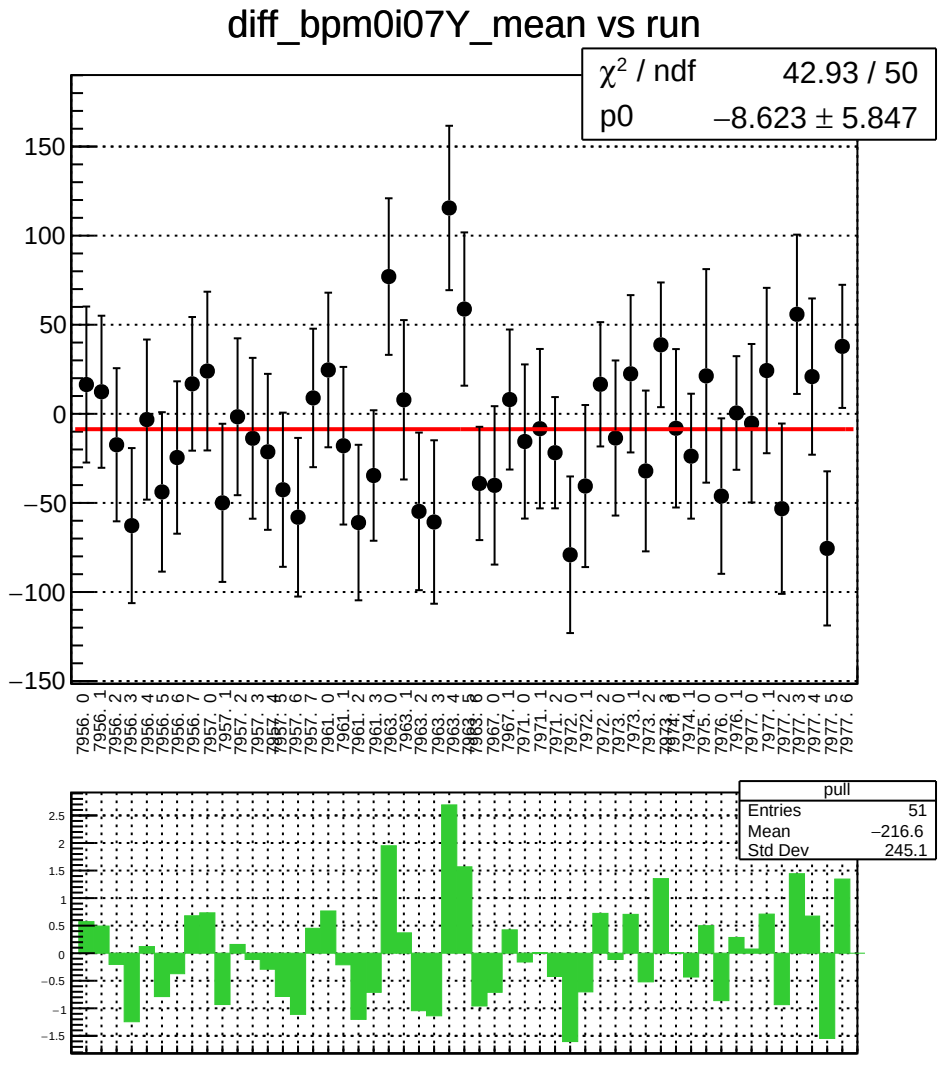
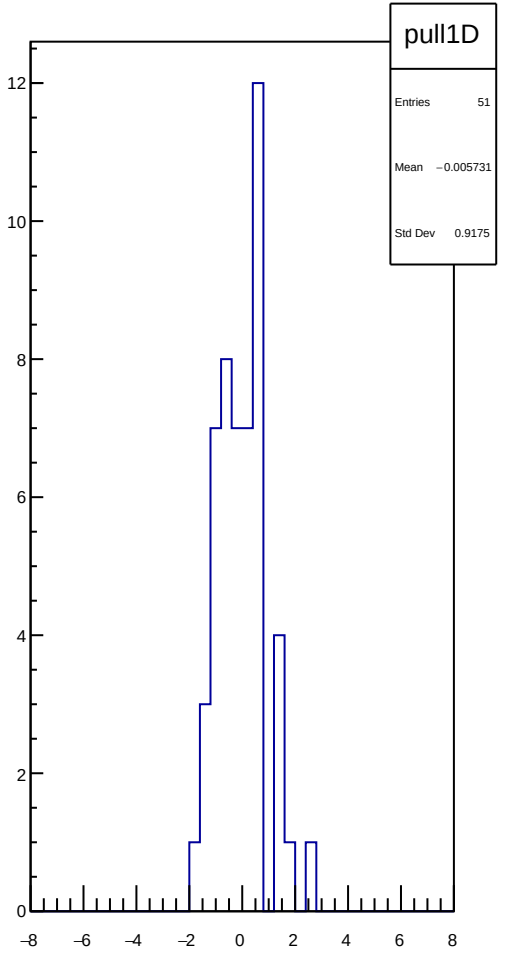
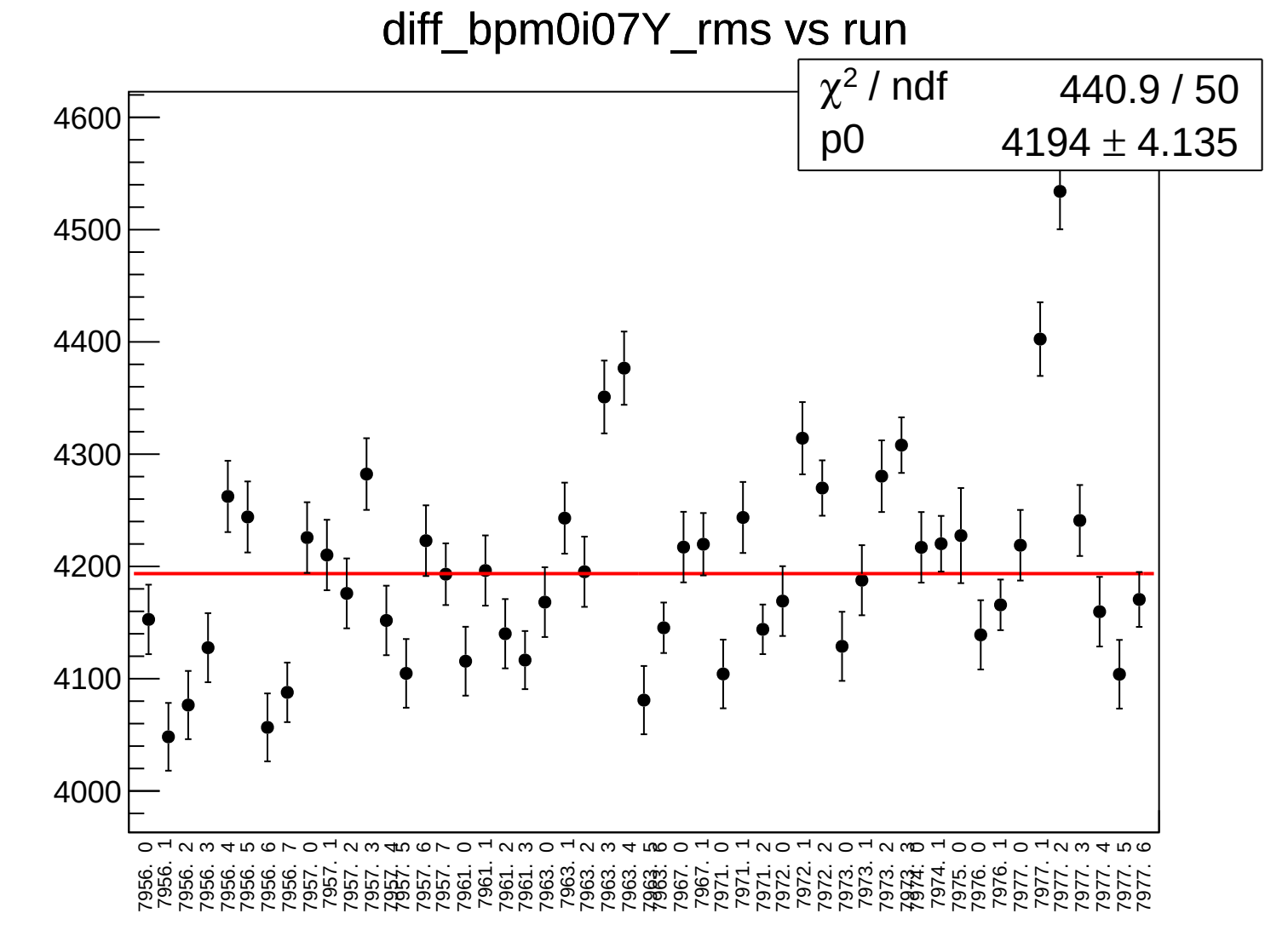
7977. 5
7977. 6


diff_bpm0i07Y_mean vs run
χ² / ndf 42.93 / 50
p0 −8.623 ± 5.847
pull
Entries 51
Mean −216.6
Std Dev 245.1


pull1D
Entries 51
Mean −0.005731
Std Dev 0.9175


diff_bpm0i07Y_rms vs run
χ² / ndf 440.9 / 50
p0 4194 ± 4.135
4600
4500
4400
4300
4200
4100
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
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7976. 1
7977. 0
7977. 1
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7977. 3
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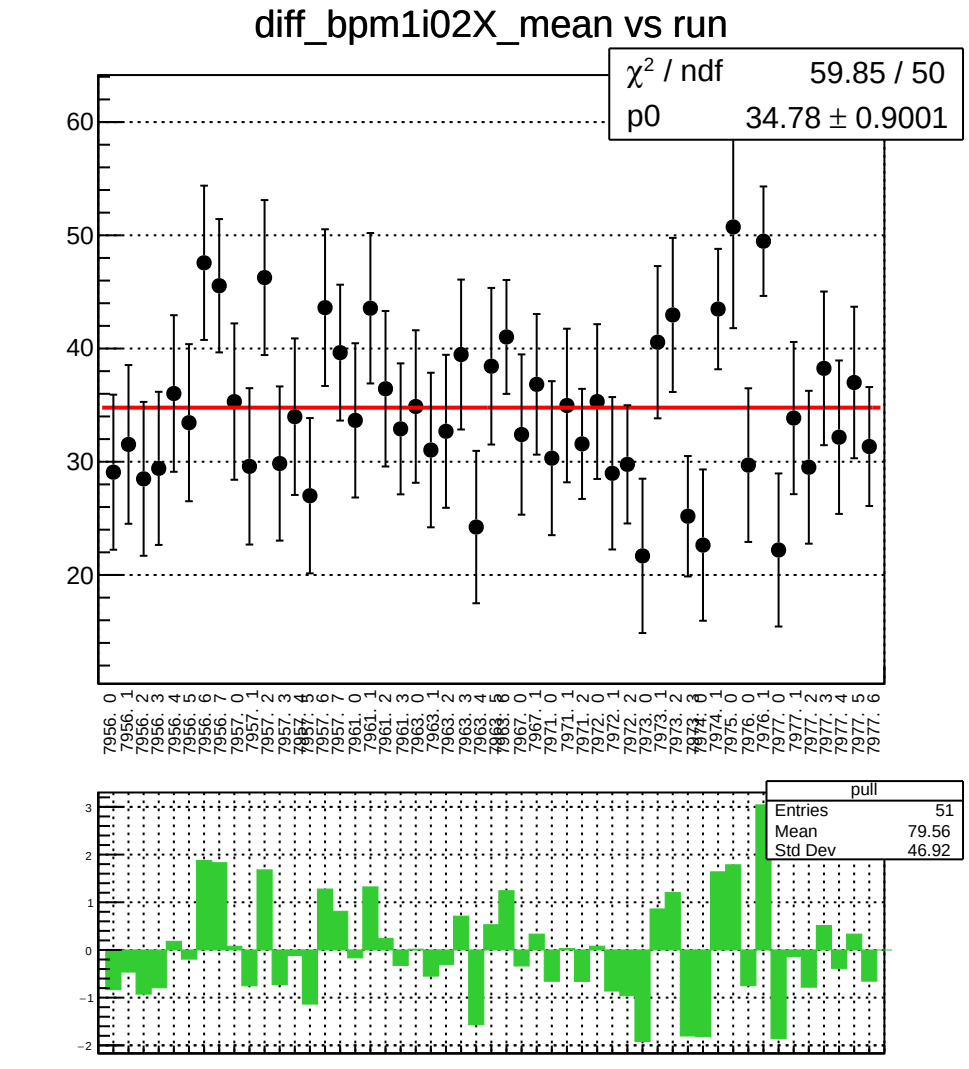
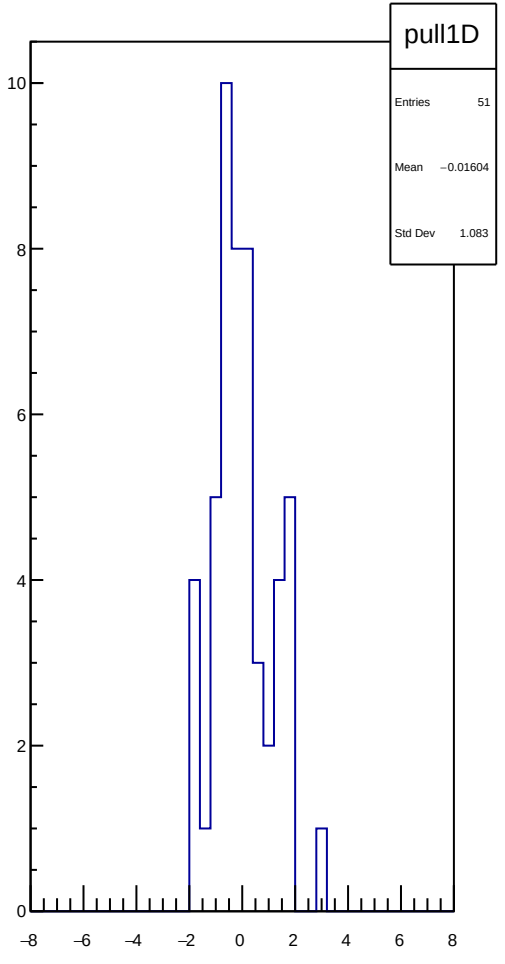
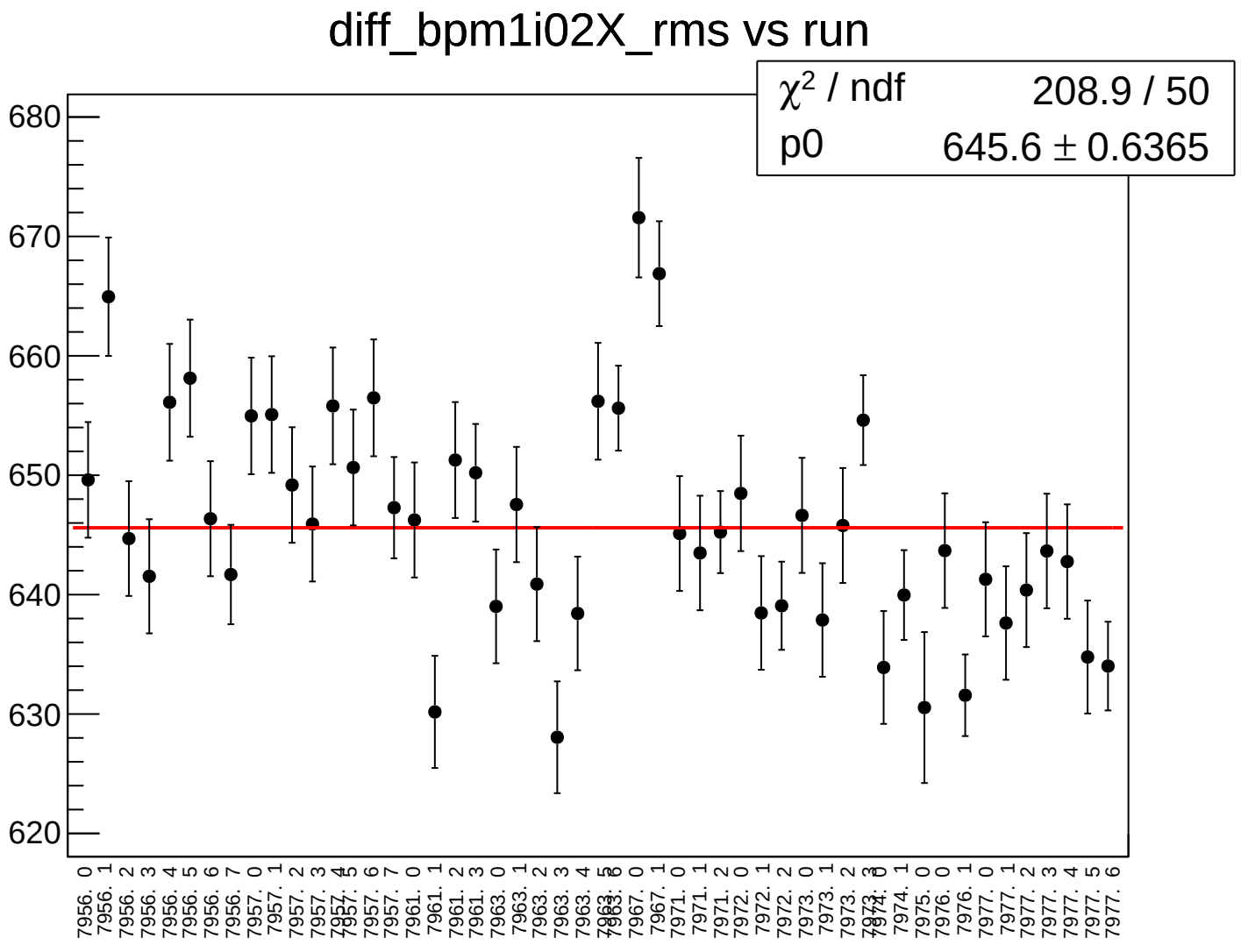
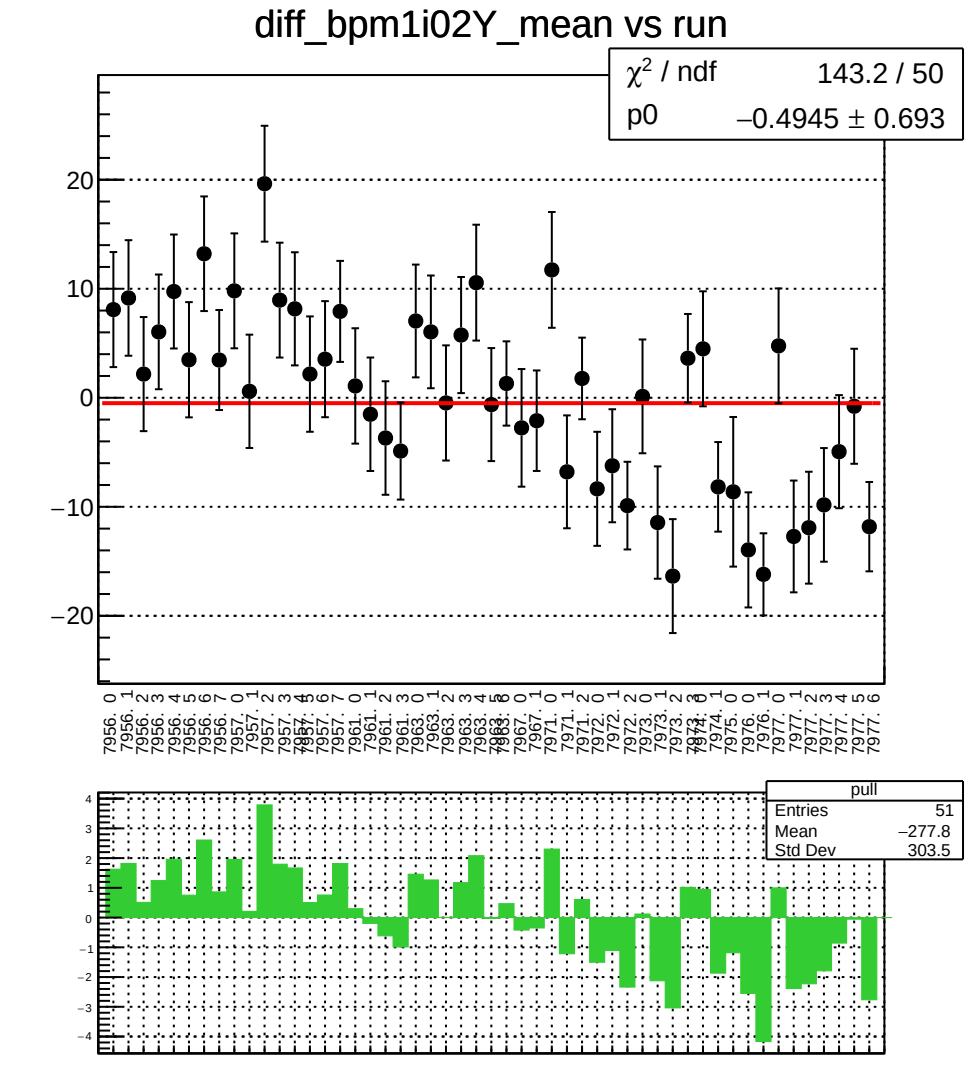
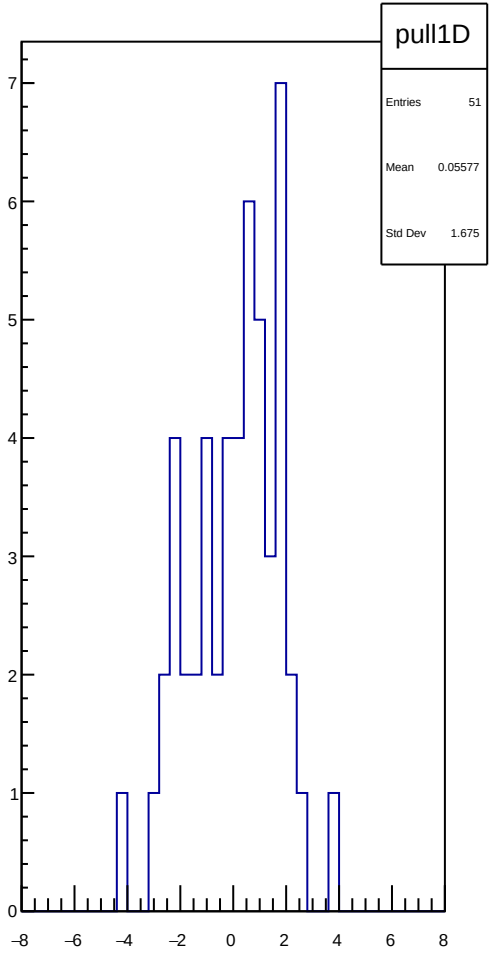
7977. 5
7977. 6

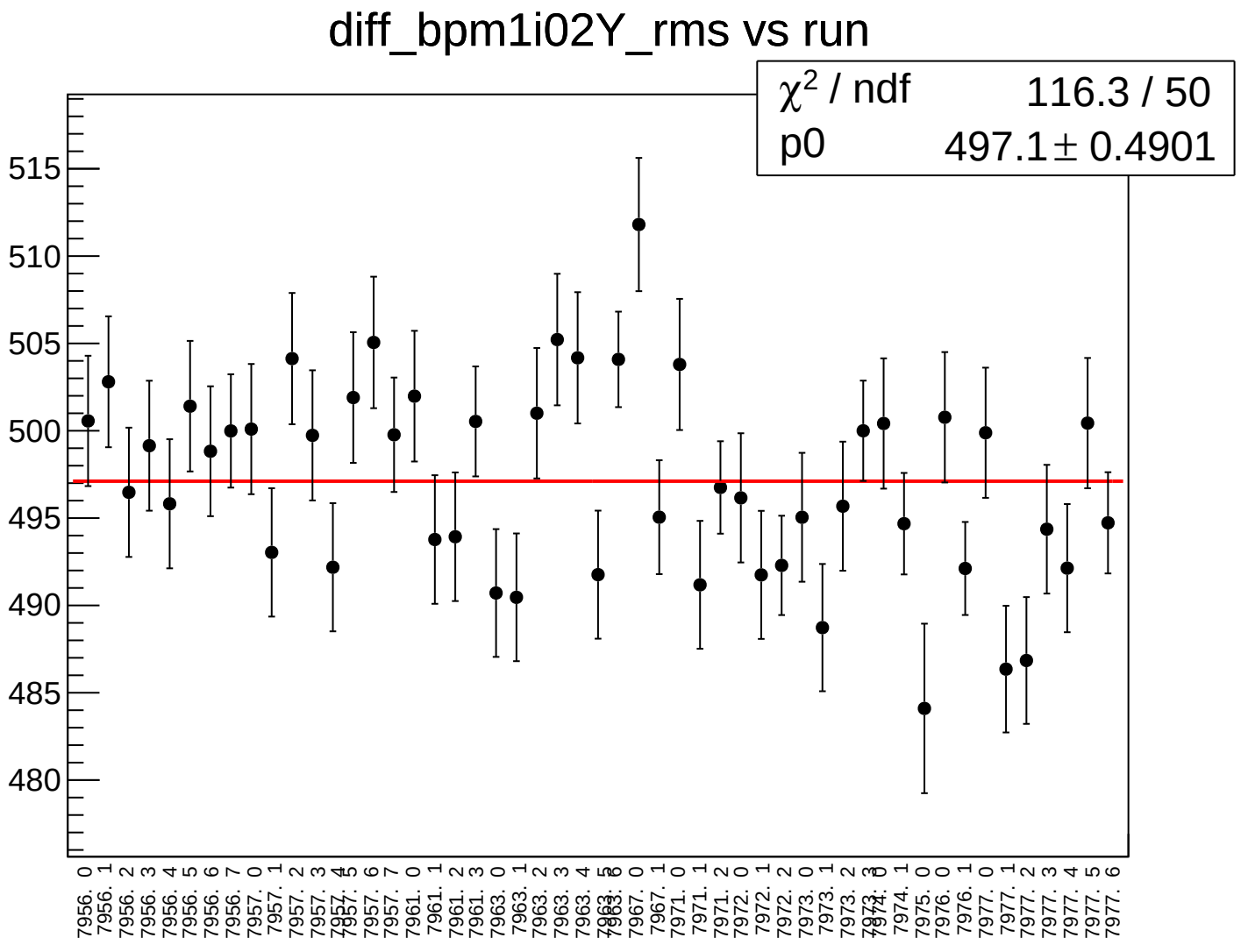

diff_bpm1i02X_mean vs run
χ^2 / ndf 59.85 / 50
p0 34.78 ± 0.9001
pull
Entries 51
Mean 79.56
Std Dev 46.92


pull1D
Entries 51
Mean −0.01604
Std Dev 1.083


diff_bpm1i02X_rms vs run
χ² / ndf 208.9 / 50
p0 645.6 ± 0.6365
680
670
660
650
640
630
620
7956. 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_bpm1i02Y_mean vs run
χ² / ndf 143.2 / 50
p0 −0.4945 ± 0.693
pull
Entries 51
Mean −277.8
Std Dev 303.5


pull1D
Entries 51
Mean 0.05577
Std Dev 1.675


diff_bpm1i02Y_rms vs run
χ² / ndf 116.3 / 50
p0 497.1 ± 0.4901
515
510
505
500
495
490
485
480
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. 7
7961. 0
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7963. 0
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7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
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7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
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7977. 2
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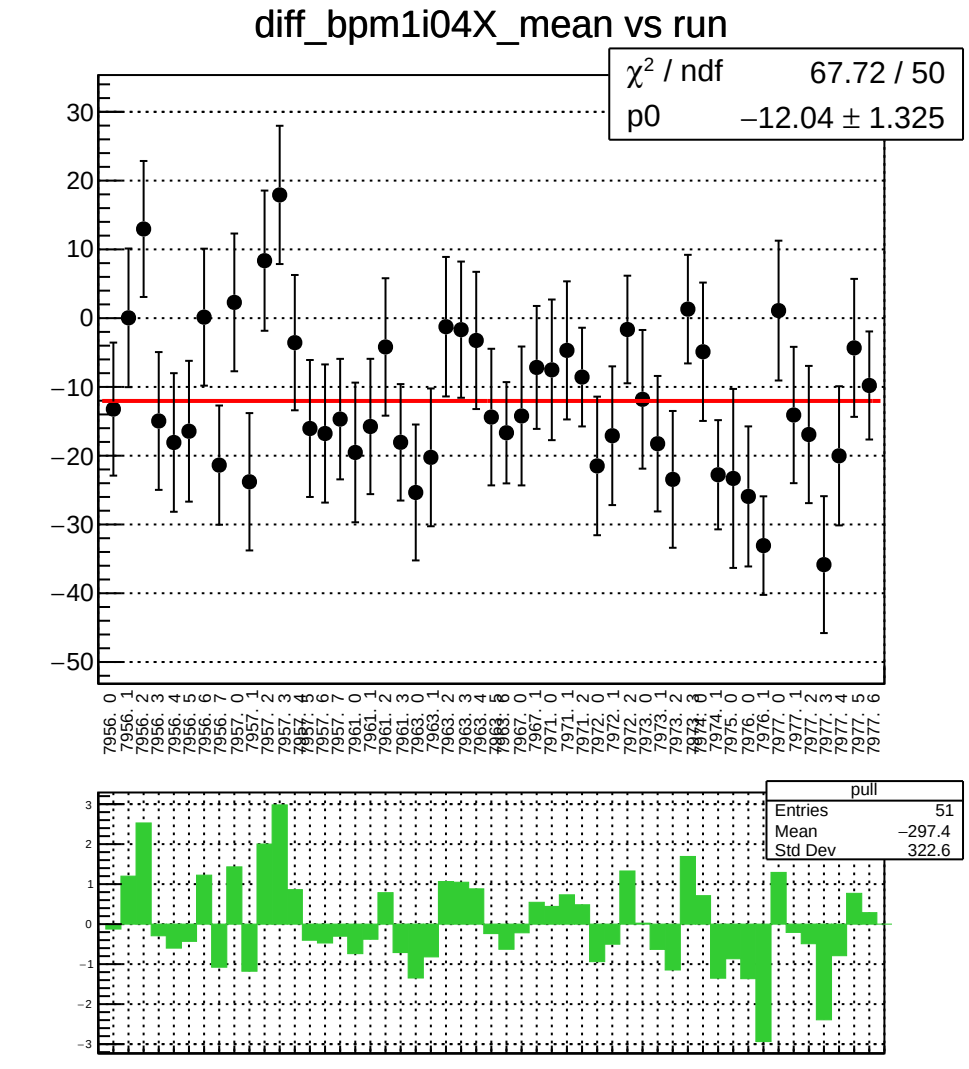
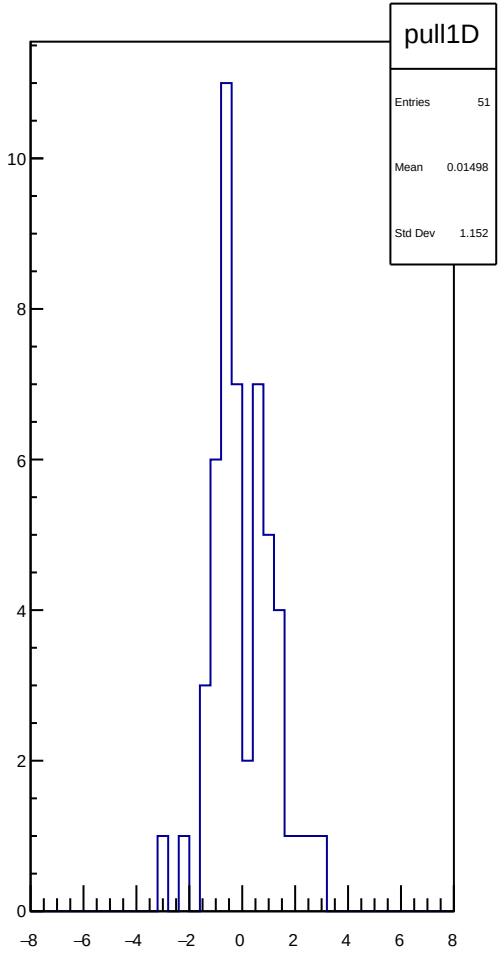
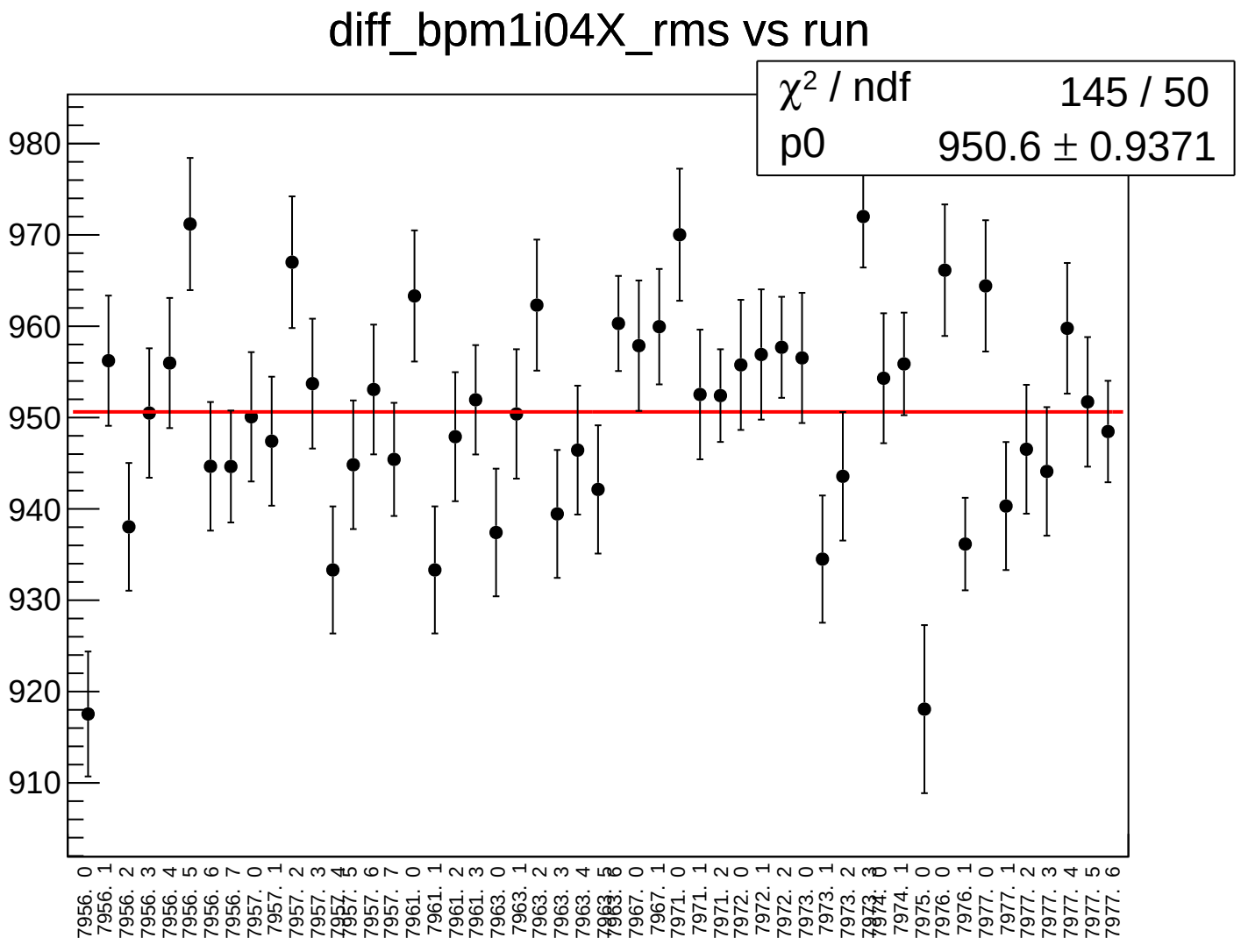
7977. 4
7977. 5
7977. 6


diff_bpm1i04X_mean vs run
χ² / ndf 67.72 / 50
p0 −12.04 ± 1.325
pull
Entries 51
Mean −297.4
Std Dev 322.6


pull1D
Entries 51
Mean 0.01498
Std Dev 1.152


diff_bpm1i04X_rms vs run
χ² / ndf 145 / 50
p0 950.6 ± 0.9371
980
970
960
950
940
930
920
910
7956. 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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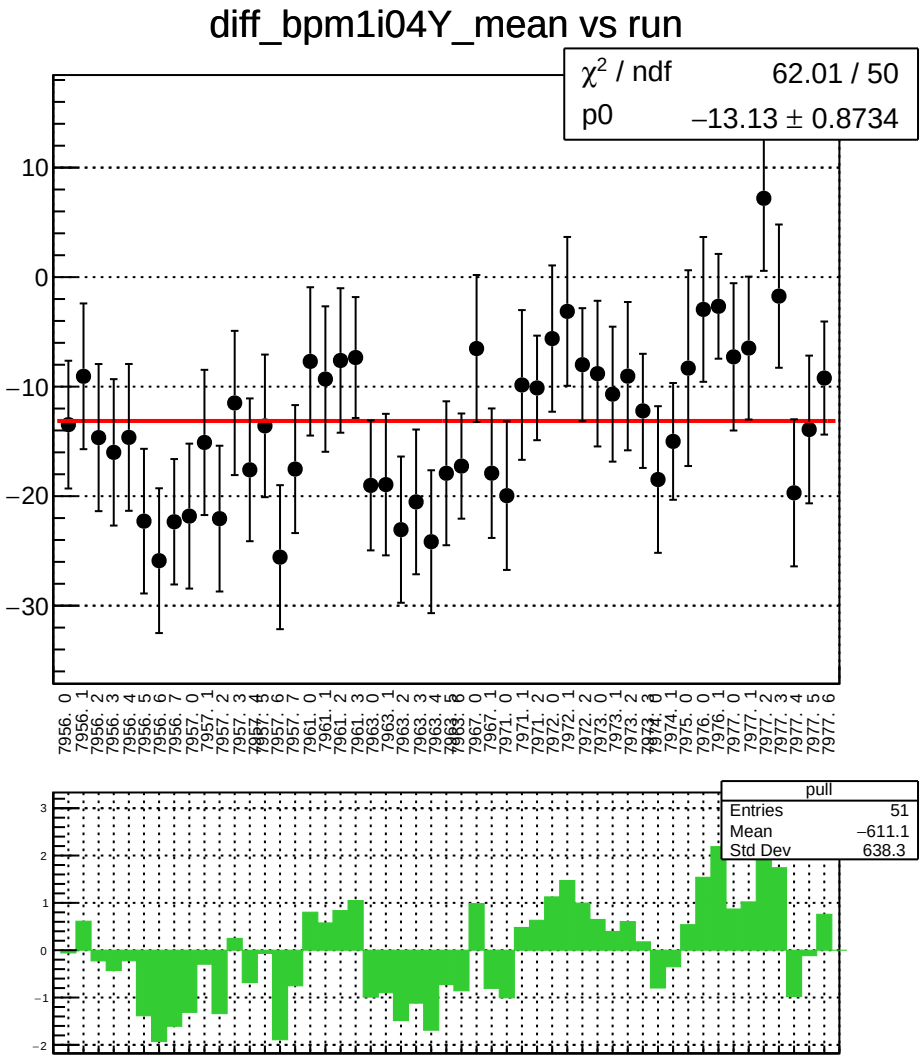
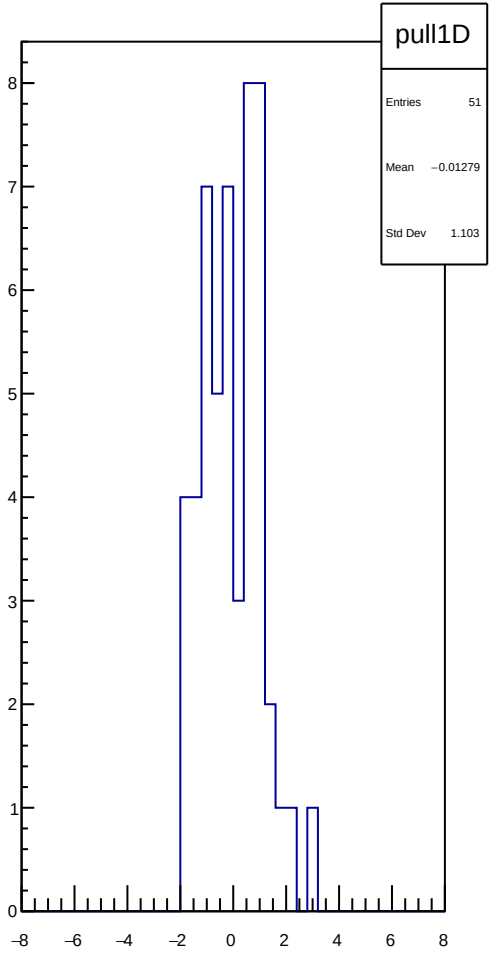
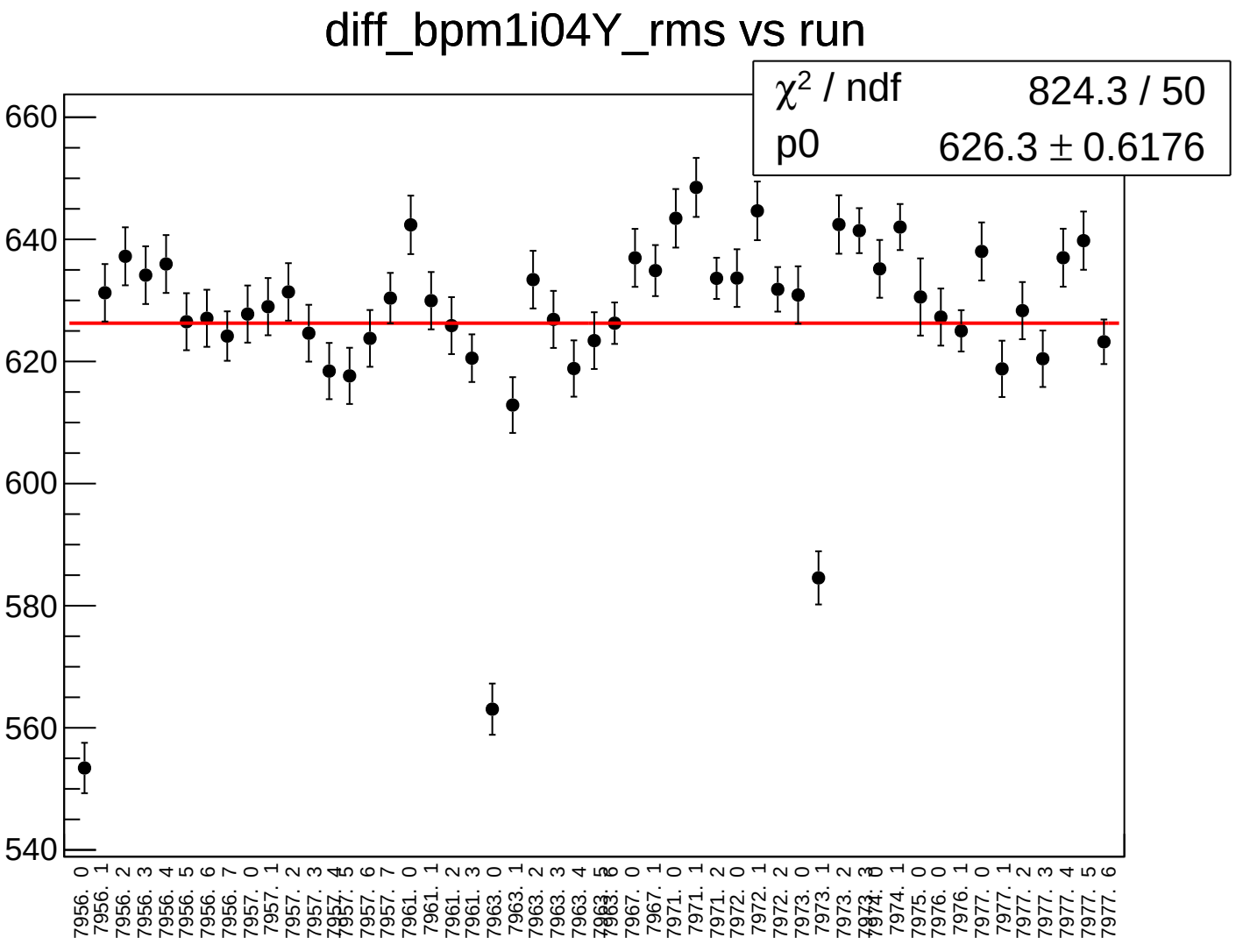
7977. 5
7977. 6


diff_bpm1i04Y_mean vs run
χ² / ndf 62.01 / 50
p0 −13.13 ± 0.8734
pull
Entries 51
Mean −611.1
Std Dev 638.3


pull1D
Entries 51
Mean −0.01279
Std Dev 1.103


diff_bpm1i04Y_rms vs run
χ² / ndf 824.3 / 50
p0 626.3 ± 0.6176
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
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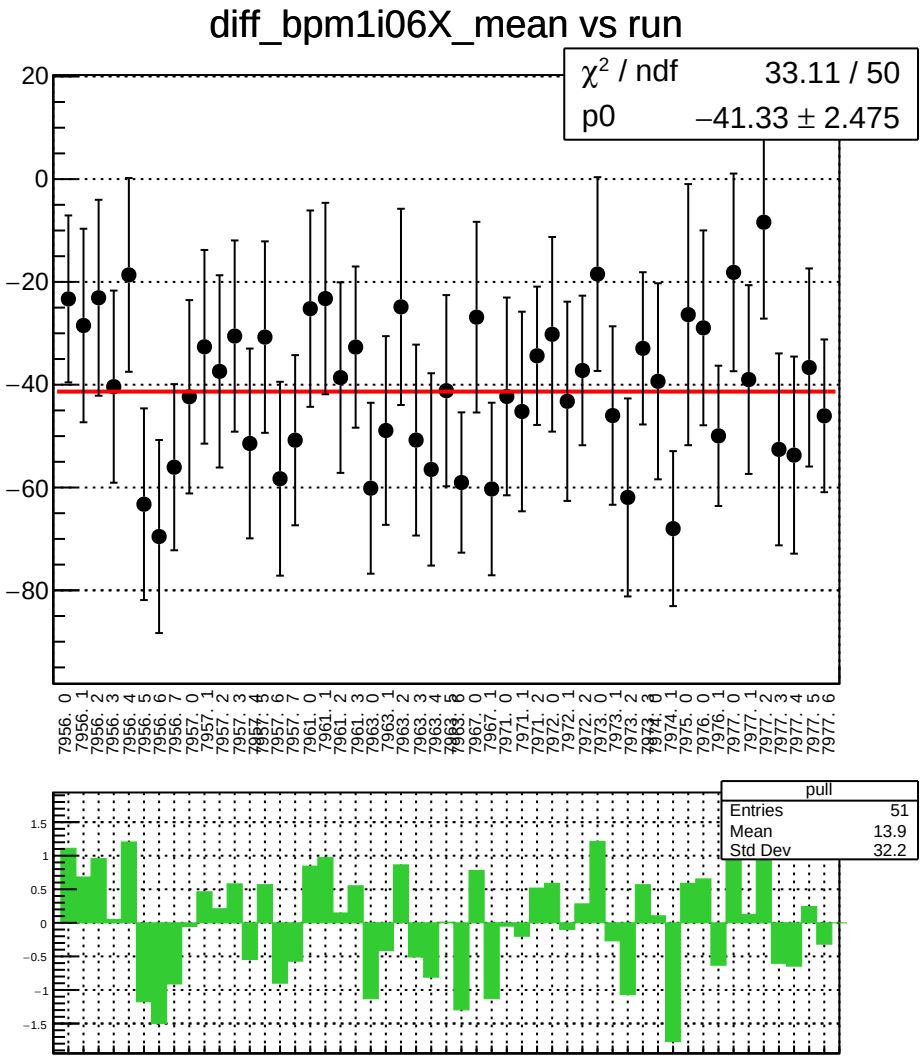
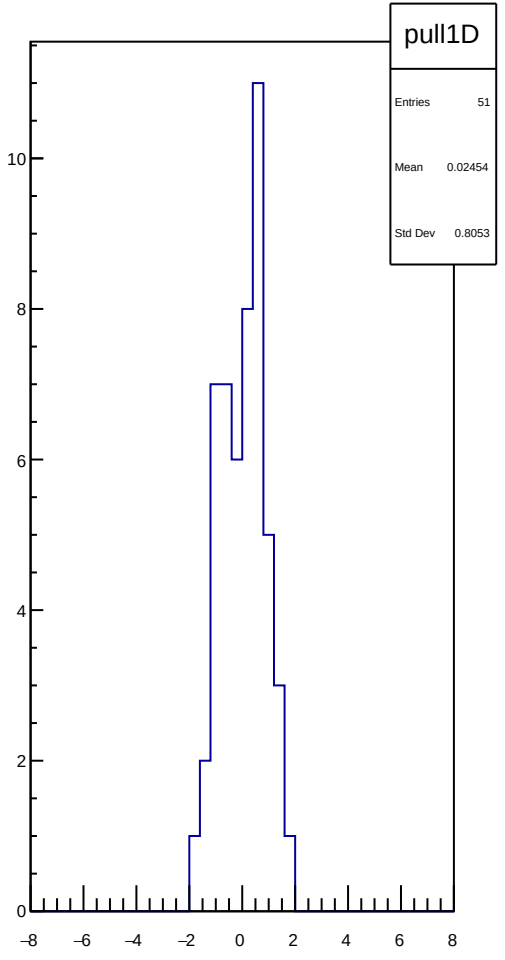
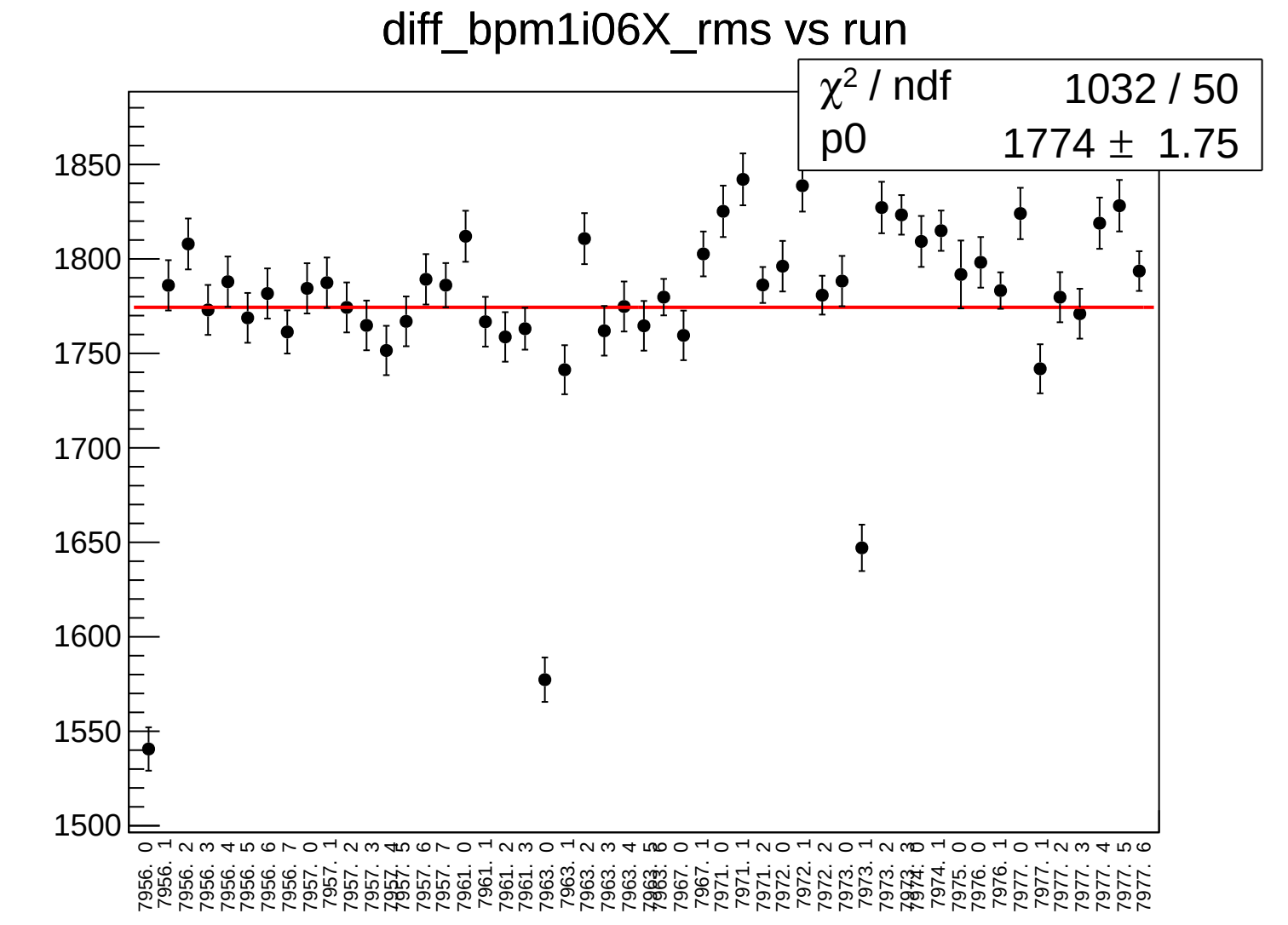
7977. 5
7977. 6


diff_bpm1i06X_mean vs run
χ² / ndf 33.11 / 50
p0 −41.33 ± 2.475
pull
Entries 51
Mean 13.9
Std Dev 32.2


pull1D
Entries 51
Mean 0.02454
Std Dev 0.8053


diff_bpm1i06X_rms vs run
χ² / ndf 1032 / 50
p0 1774 ± 1.75
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
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7976. 1
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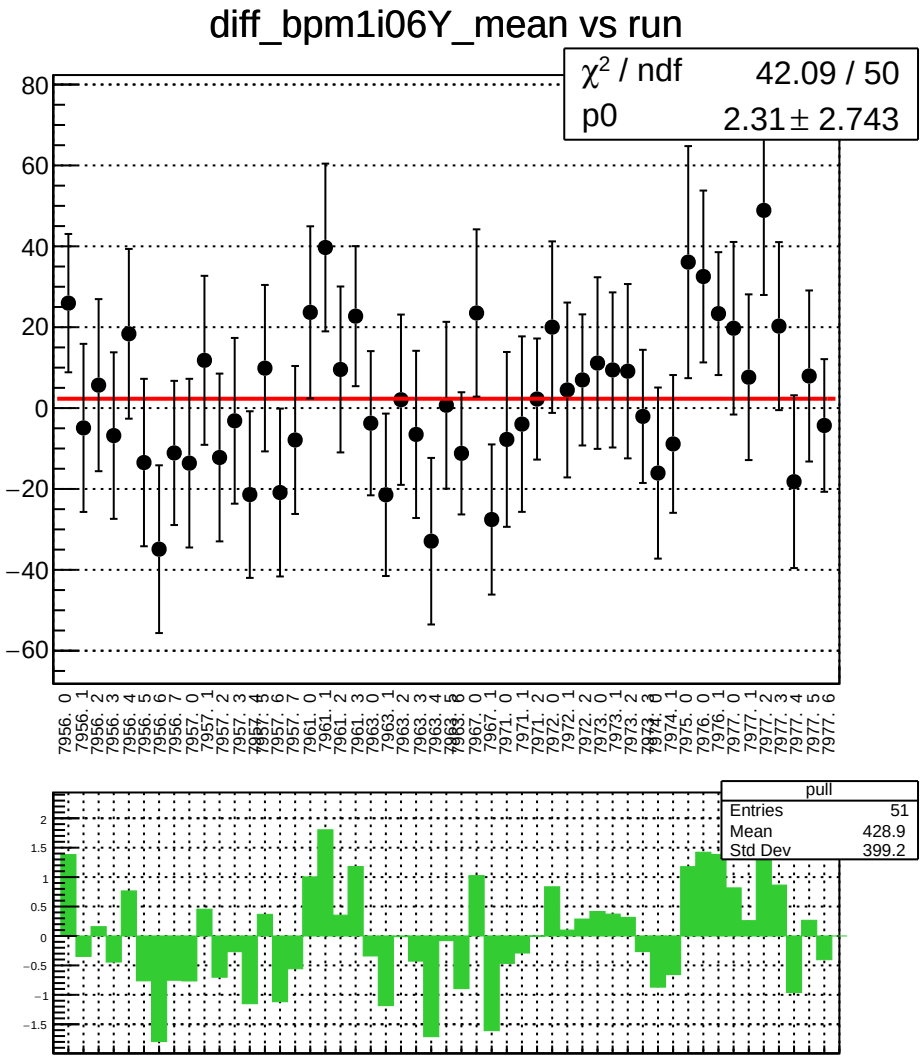
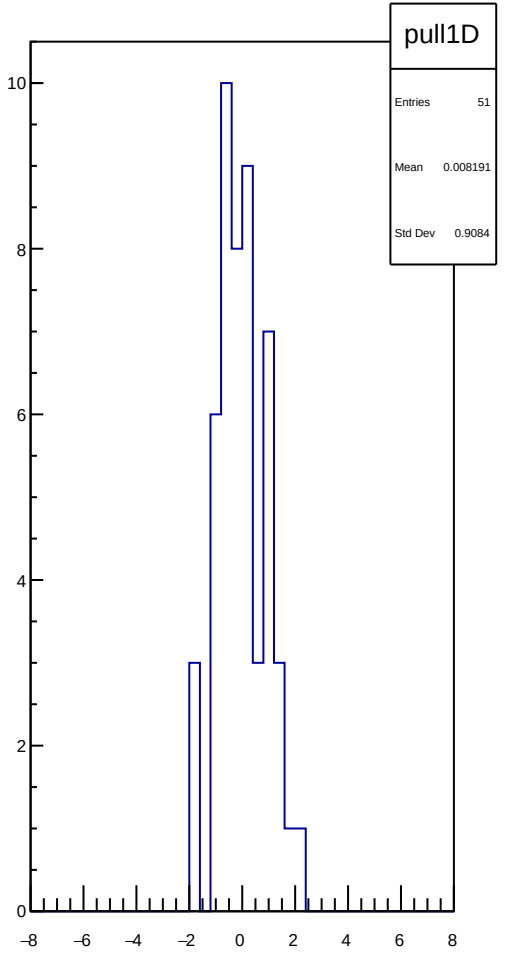
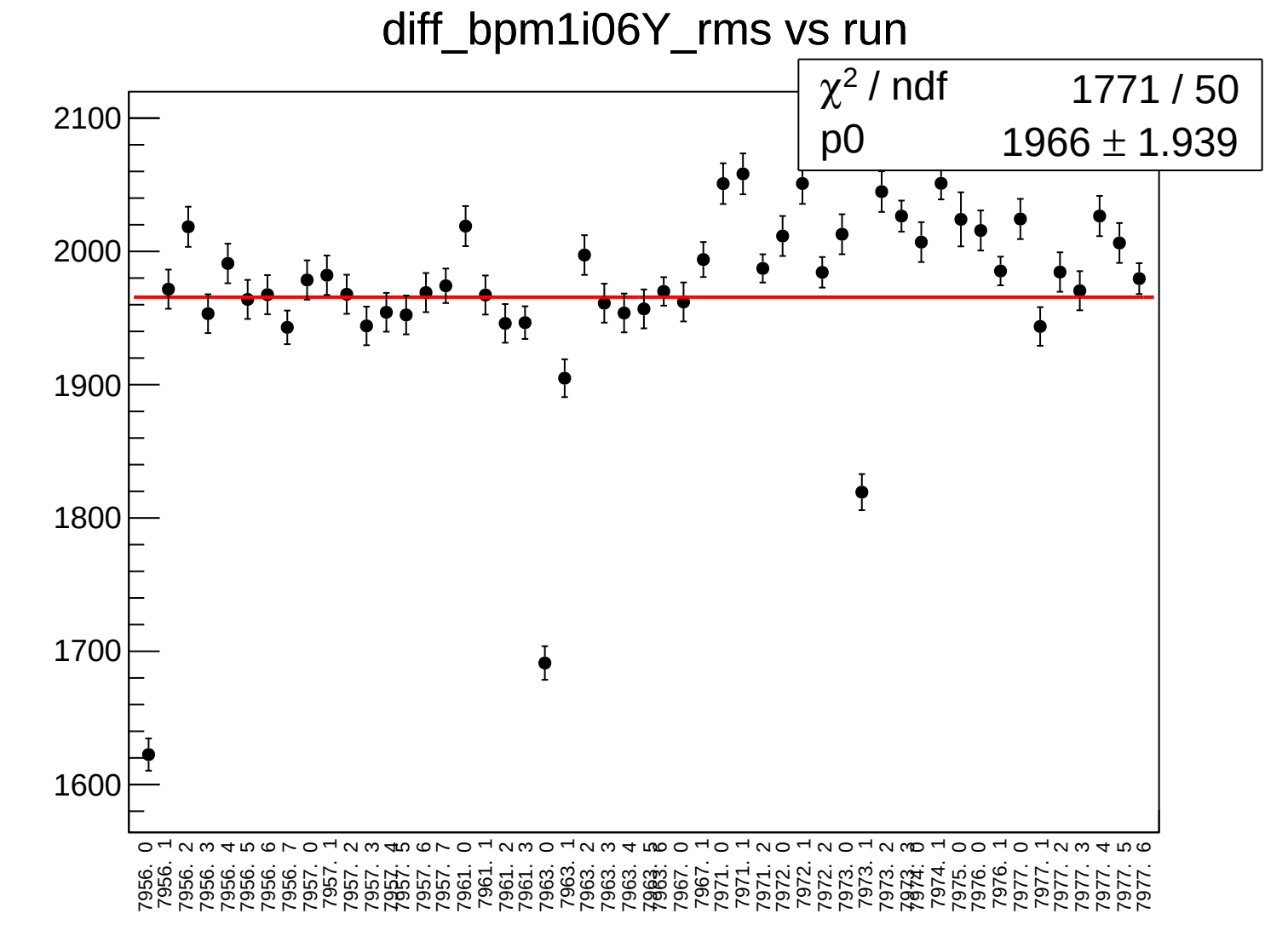
7977. 5
7977. 6


diff_bpm1i06Y_mean vs run
χ² / ndf 42.09 / 50
p0 2.31 ± 2.743
pull
Entries 51
Mean 428.9
Std Dev 399.2


pull1D
Entries 51
Mean 0.008191
Std Dev 0.9084


diff_bpm1i06Y_rms vs run
χ² / ndf 1771 / 50
p0 1966 ± 1.939
2100
2000
1900
1800
1700
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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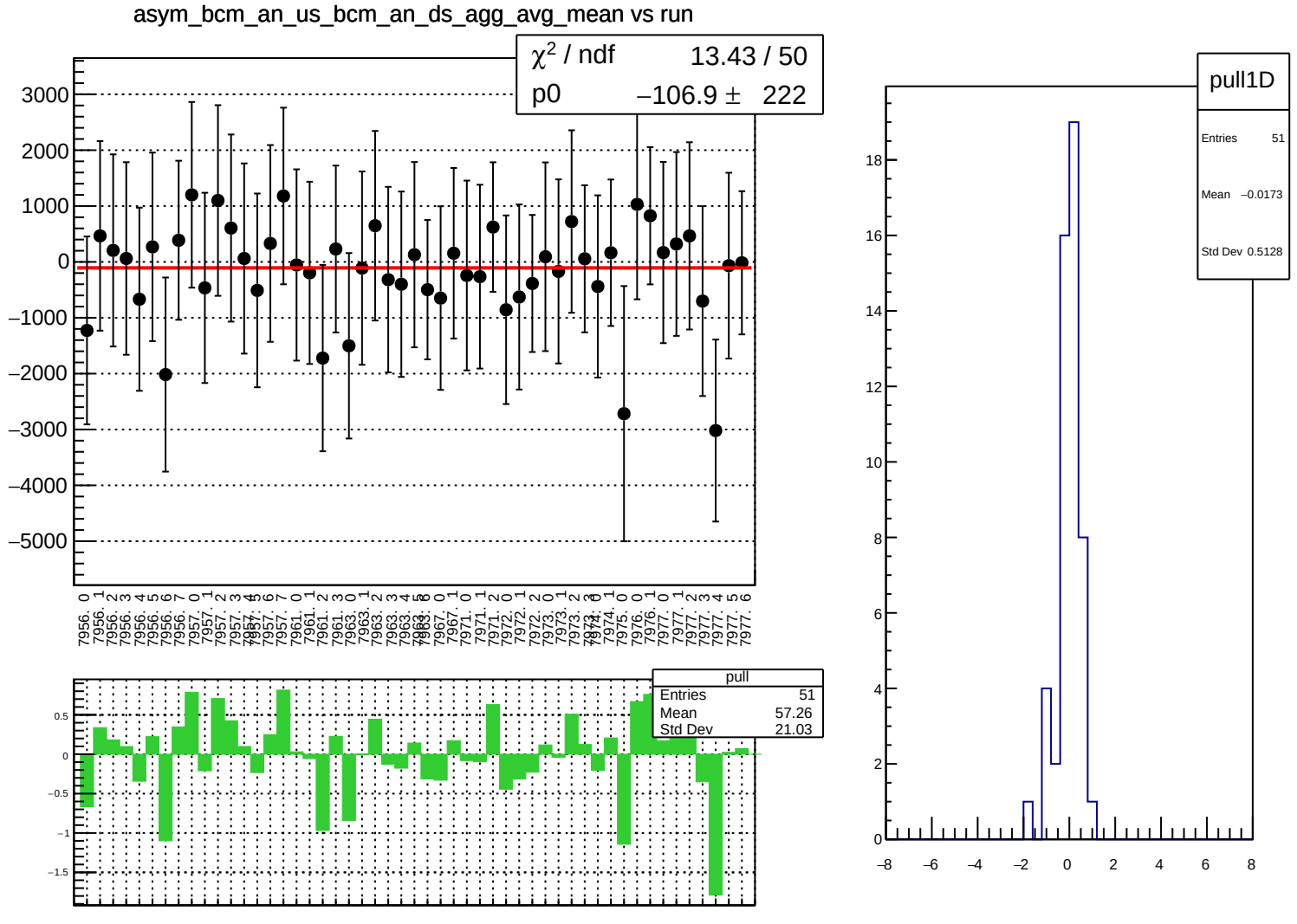
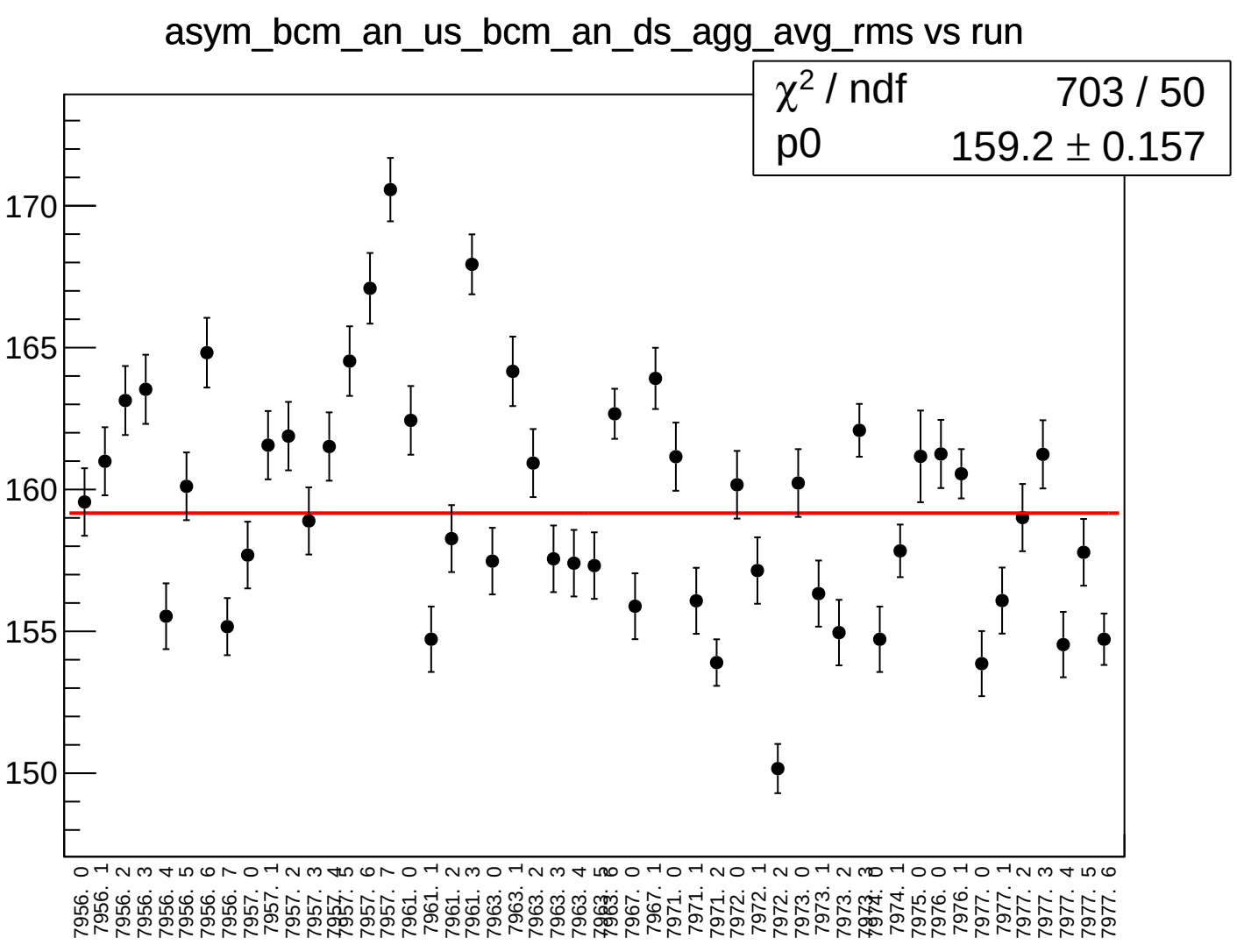
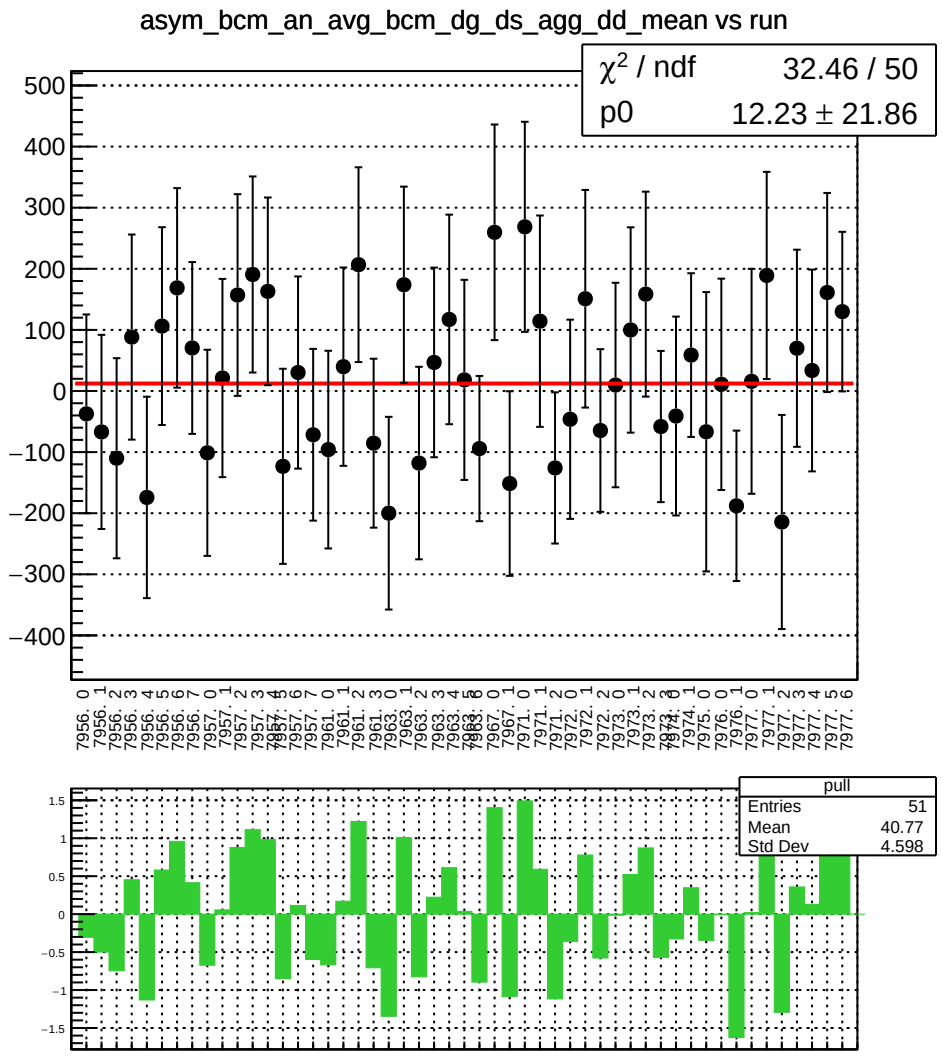
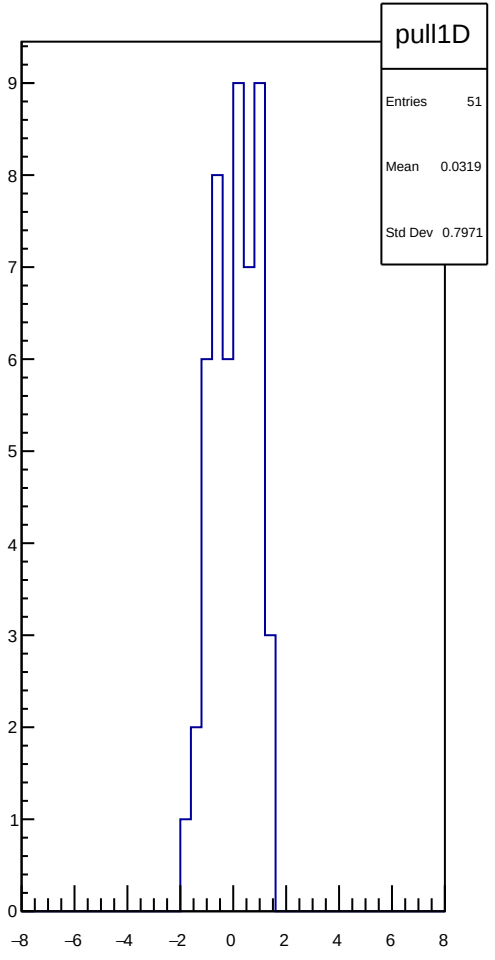
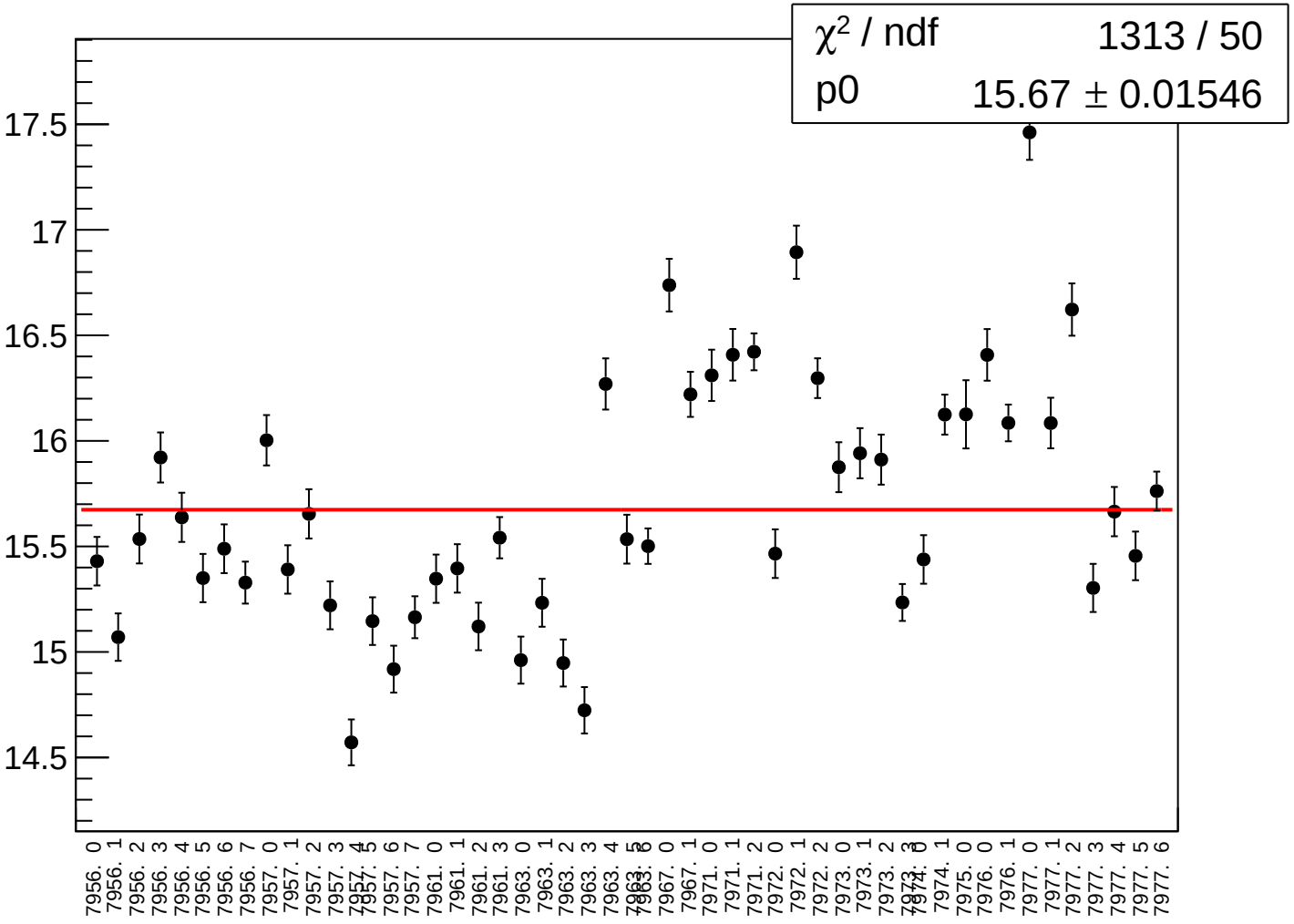
7977. 5
7977. 6

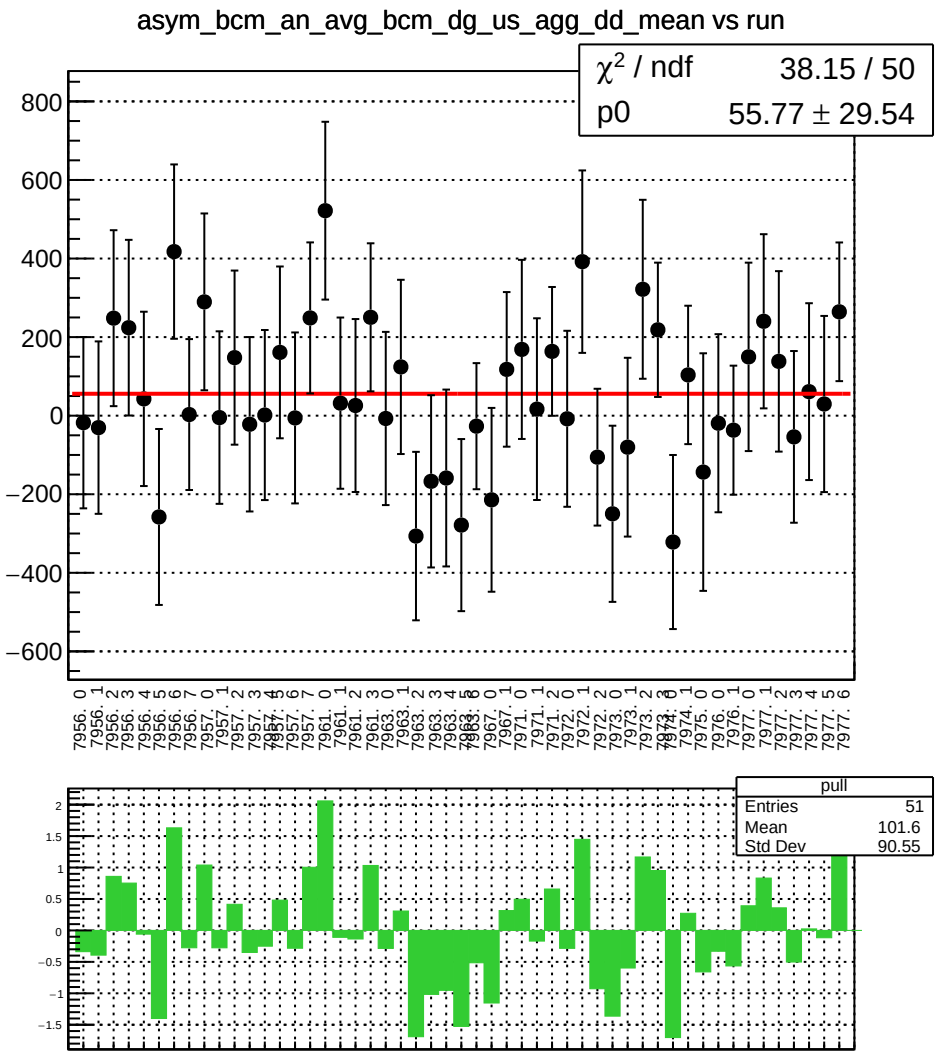

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.43 / 50
p0 −106.9 ± 222
pull
Entries 51
Mean 57.26
Std Dev 21.03
pull1D
Entries 51
Mean −0.0173
Std Dev 0.5128

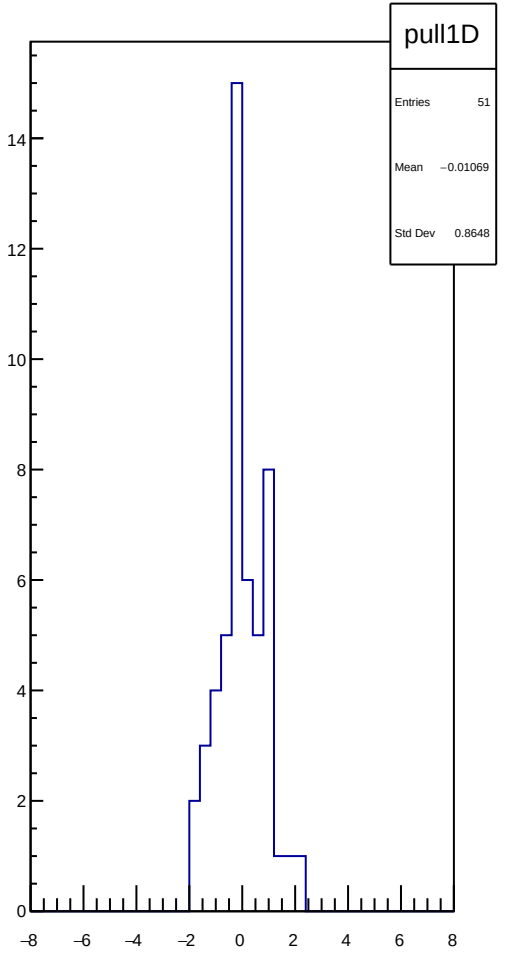

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 703 / 50
p0 159.2 ± 0.157
170
165
160
155
150
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

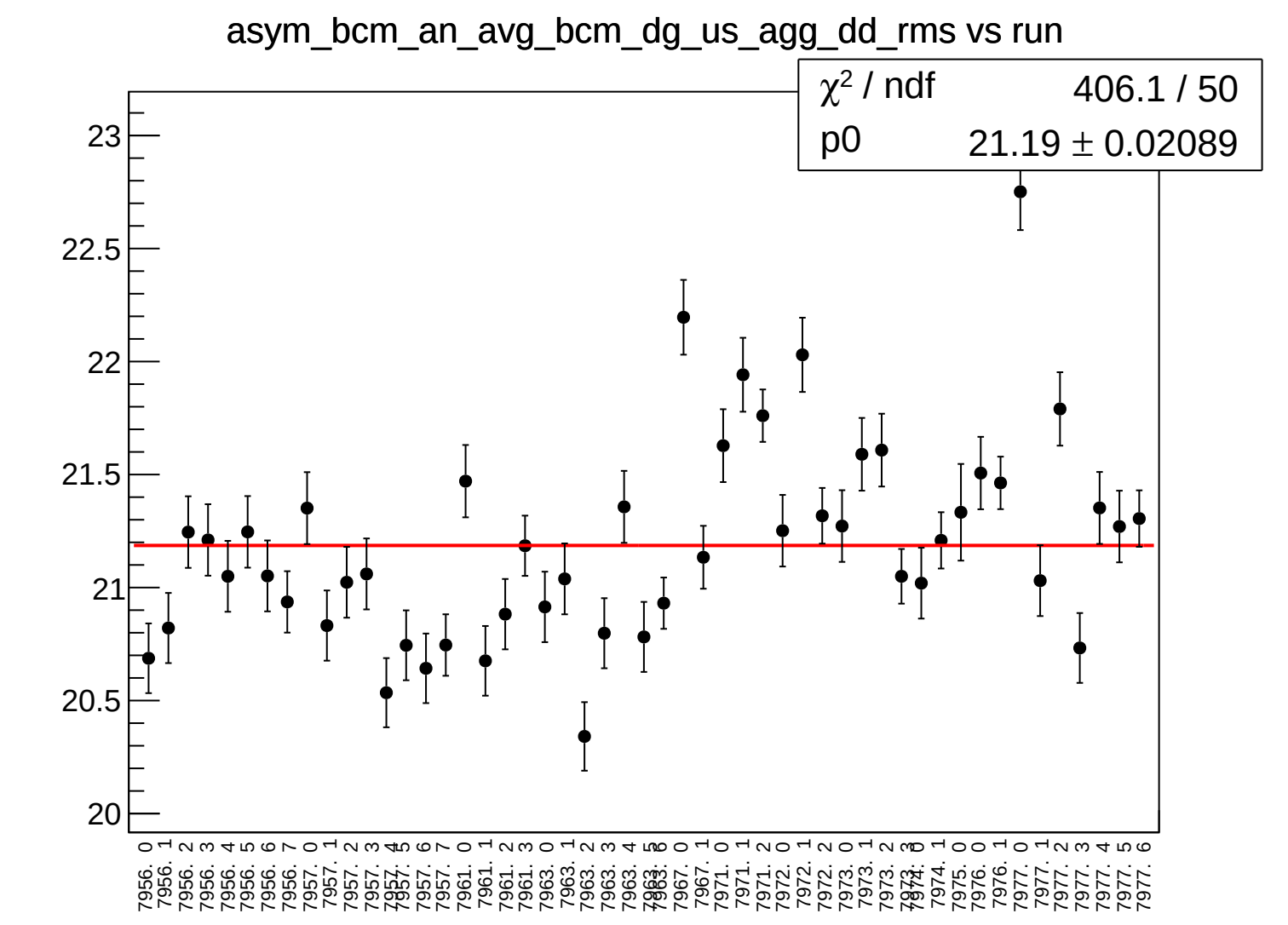

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 32.46 / 50
p0 12.23 ± 21.86
pull
Entries 51
Mean 40.77
Std Dev 4.598


pull1D
Entries 51
Mean 0.0319
Std Dev 0.7971


asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1313 / 50
p0 15.67 ± 0.01546
17.5
17
16.5
16
15.5
15
14.5
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
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 38.15 / 50
p0 55.77 ± 29.54
pull
Entries 51
Mean 101.6
Std Dev 90.55


pull1D
Entries 51
Mean −0.01069
Std Dev 0.8648


asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 406.1 / 50
p0 21.19 ± 0.02089
23
22.5
22
21.5
21
20.5
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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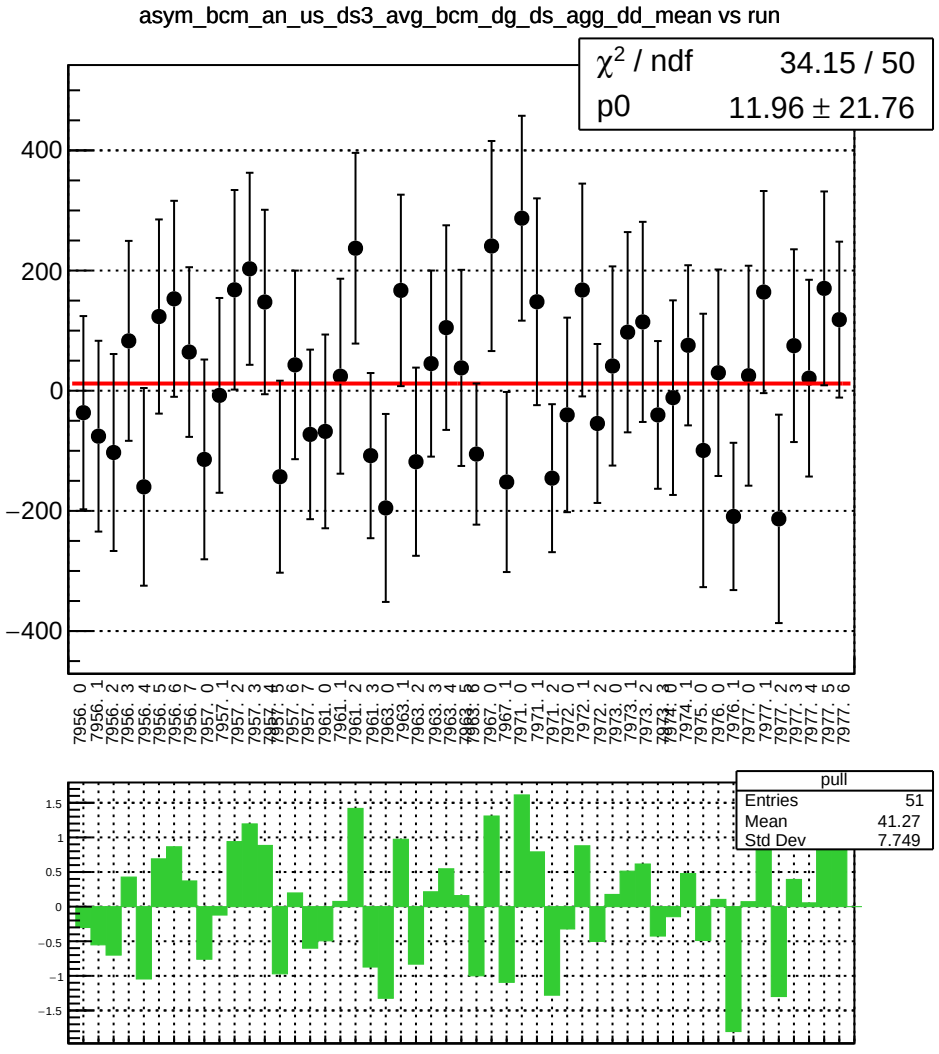
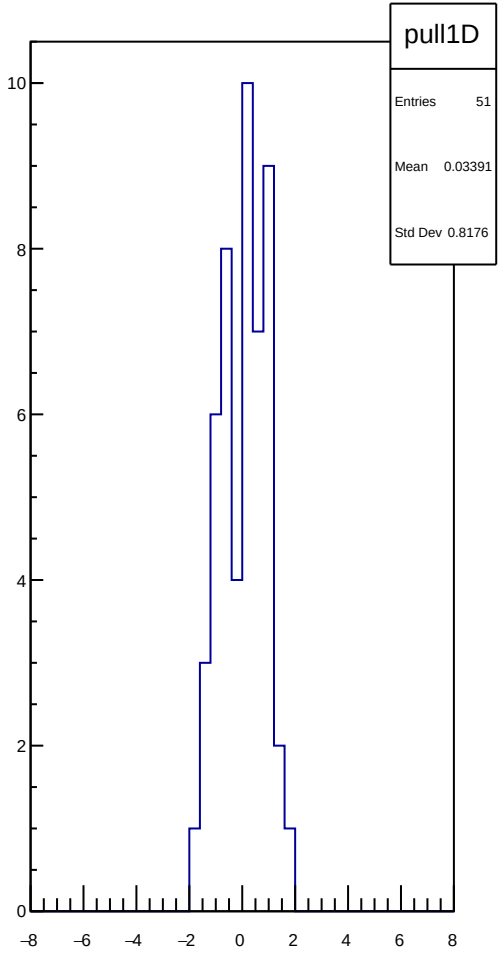
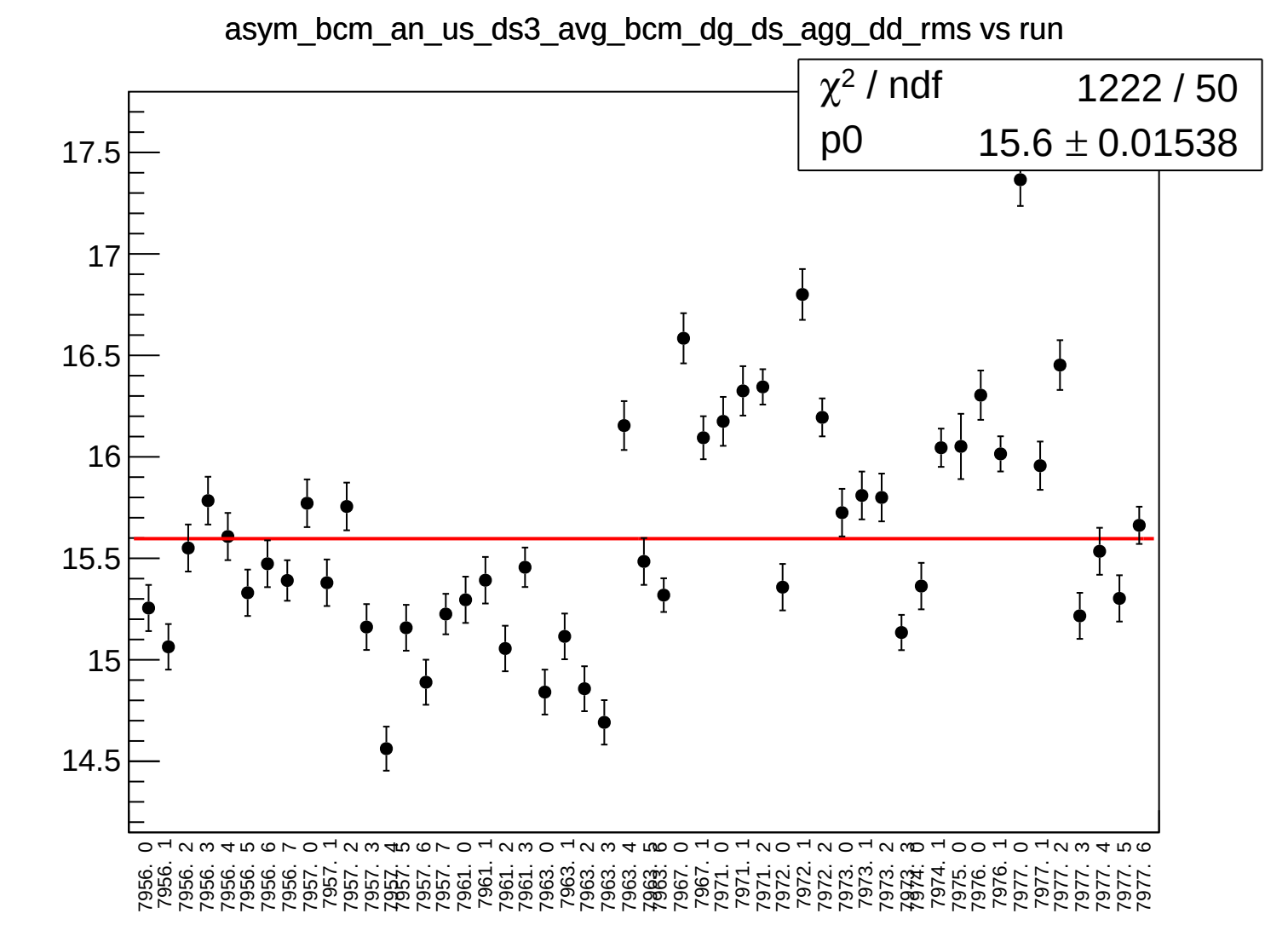
7977. 5
7977. 6


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 34.15 / 50
p0 11.96 ± 21.76
pull
Entries 51
Mean 41.27
Std Dev 7.749


pull1D
Entries 51
Mean 0.03391
Std Dev 0.8176


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1222 / 50
p0 15.6 ± 0.01538
17.5
17
16.5
16
15.5
15
14.5
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
7974. 1
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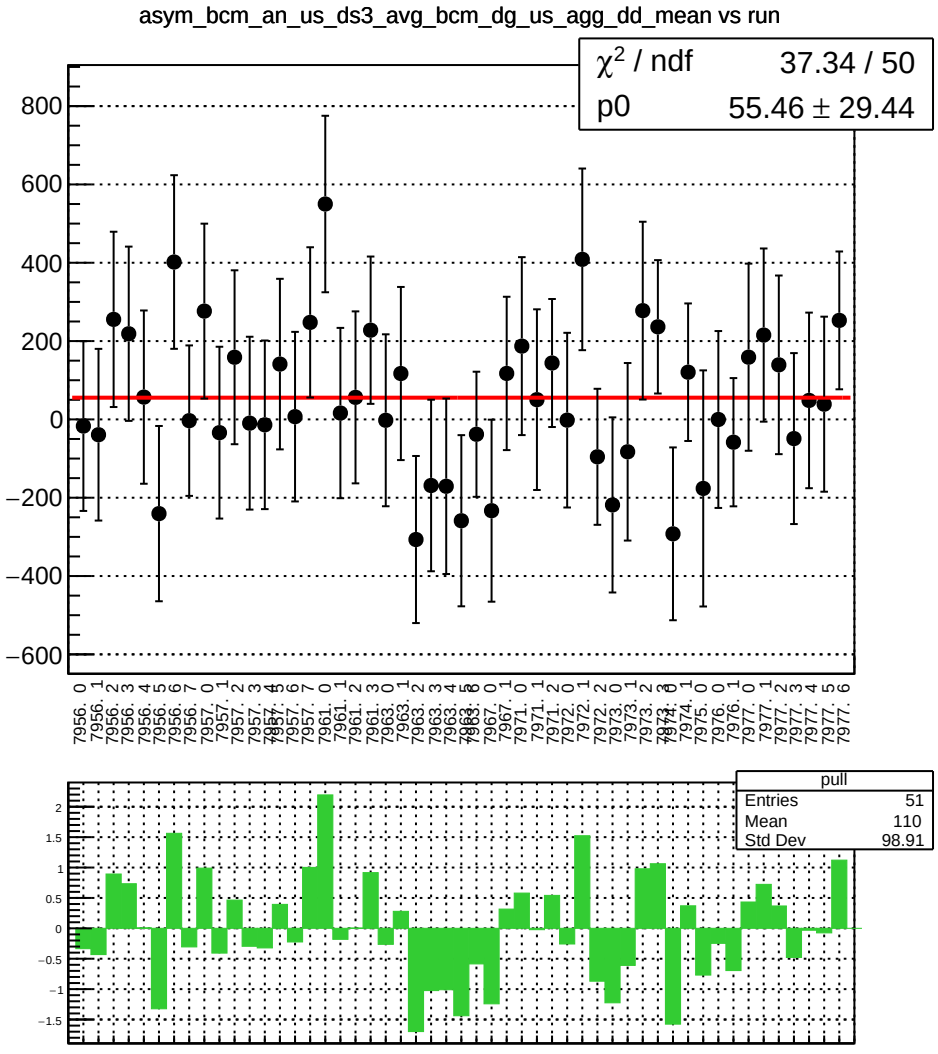
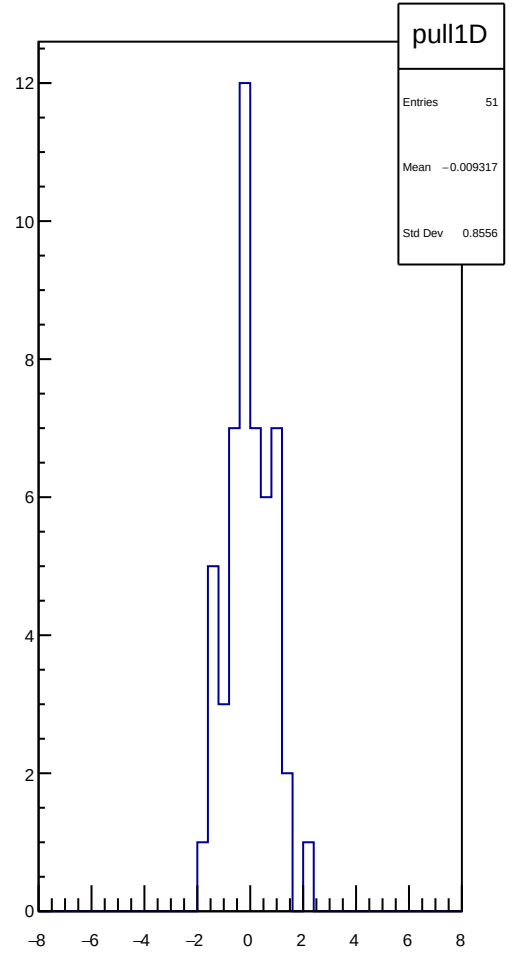
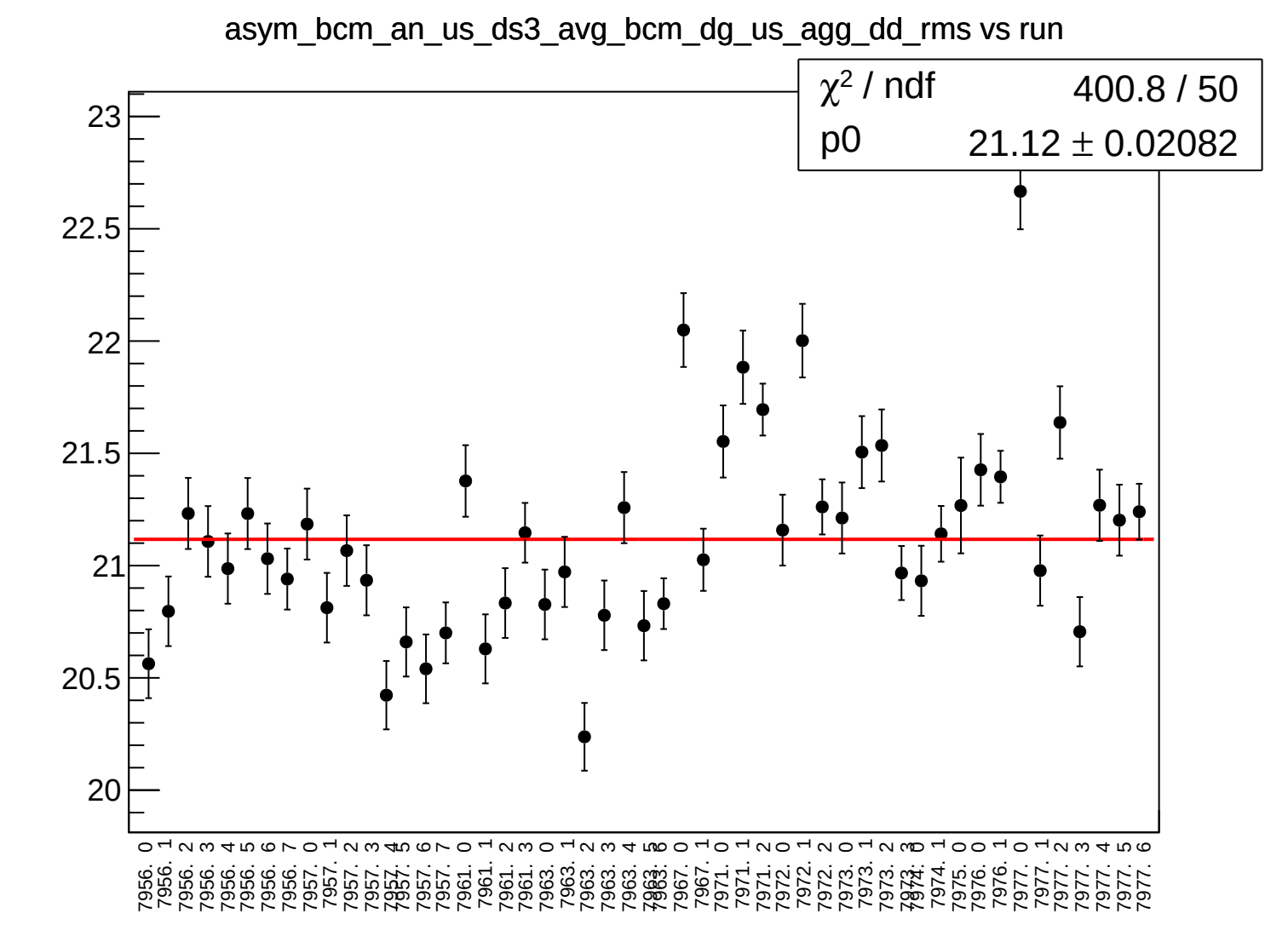
7977. 5
7977. 6


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 37.34 / 50
p0 55.46 ± 29.44
pull
Entries 51
Mean 110
Std Dev 98.91


pull1D
Entries 51
Mean −0.009317
Std Dev 0.8556


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 400.8 / 50
p0 21.12 ± 0.02082
23
22.5
22
21.5
21
20.5
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. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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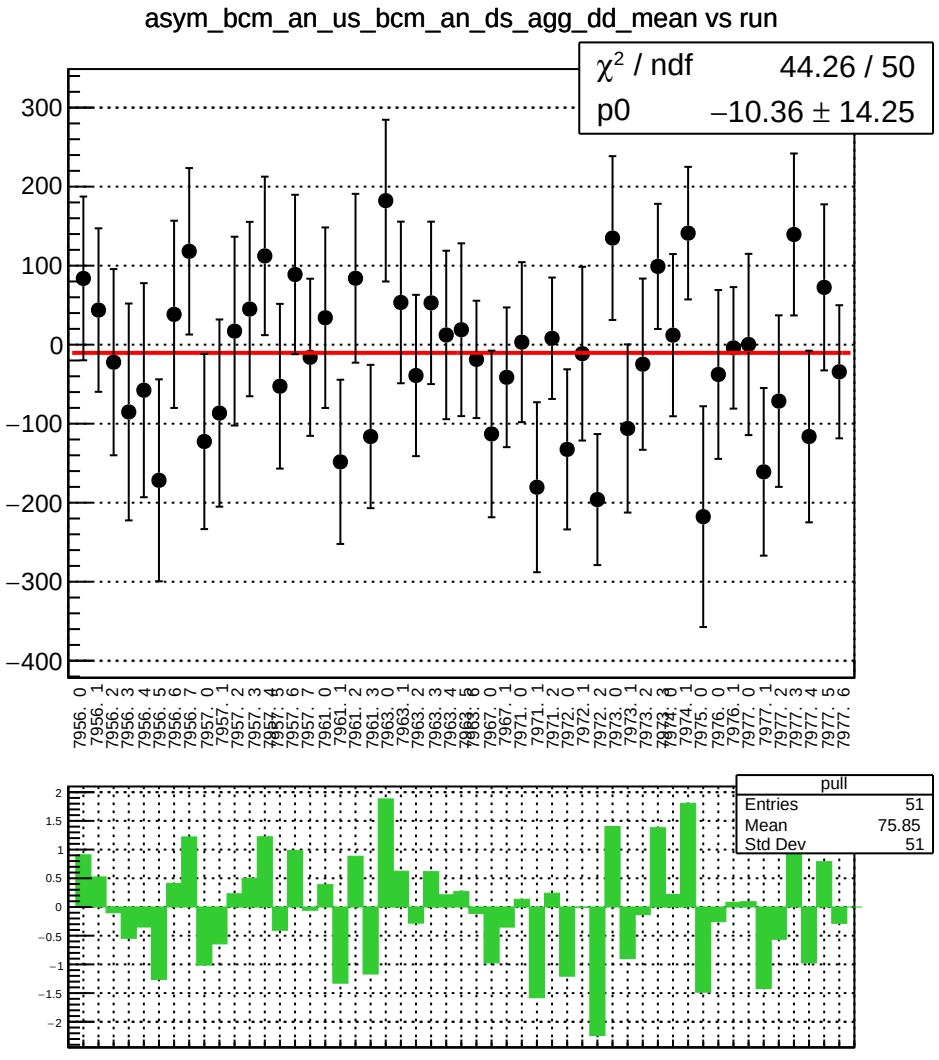
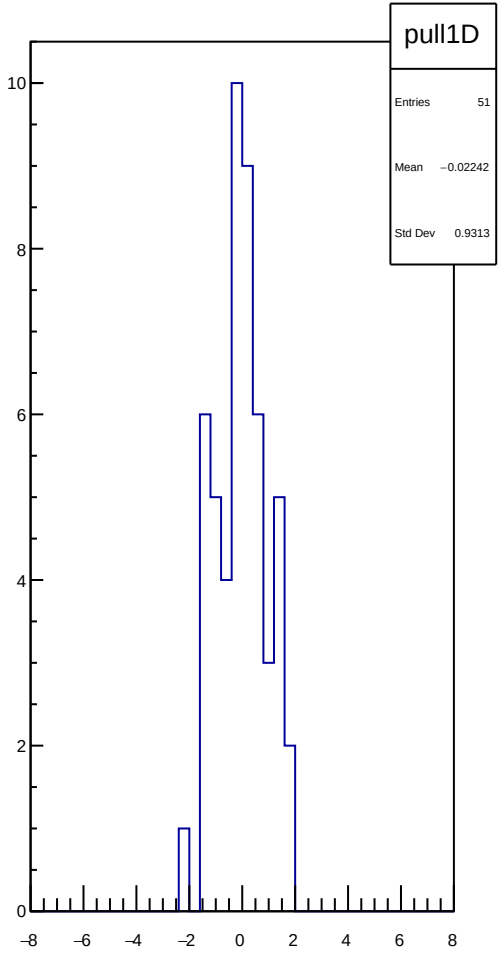
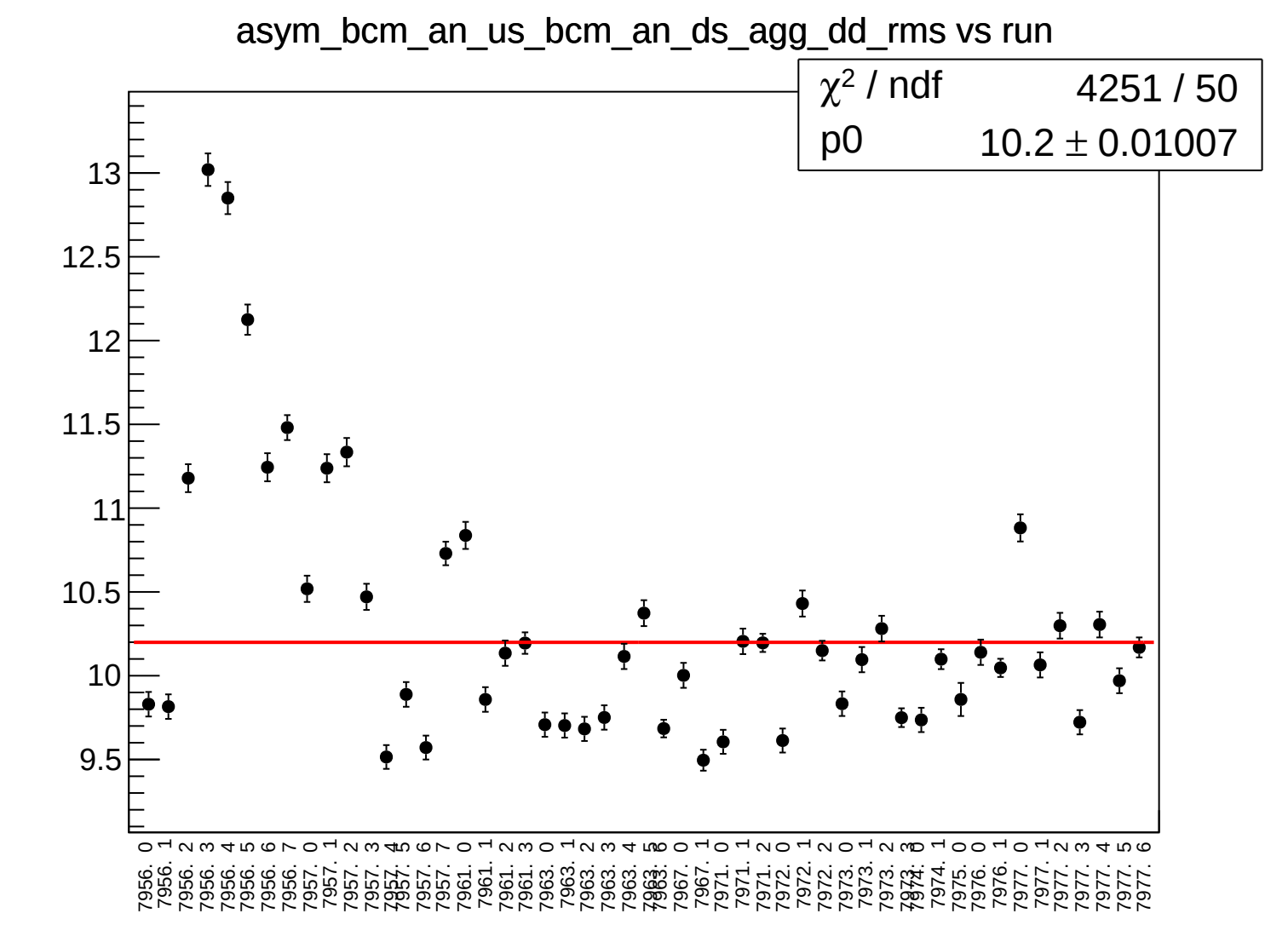
7977. 5
7977. 6


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
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7963. 2
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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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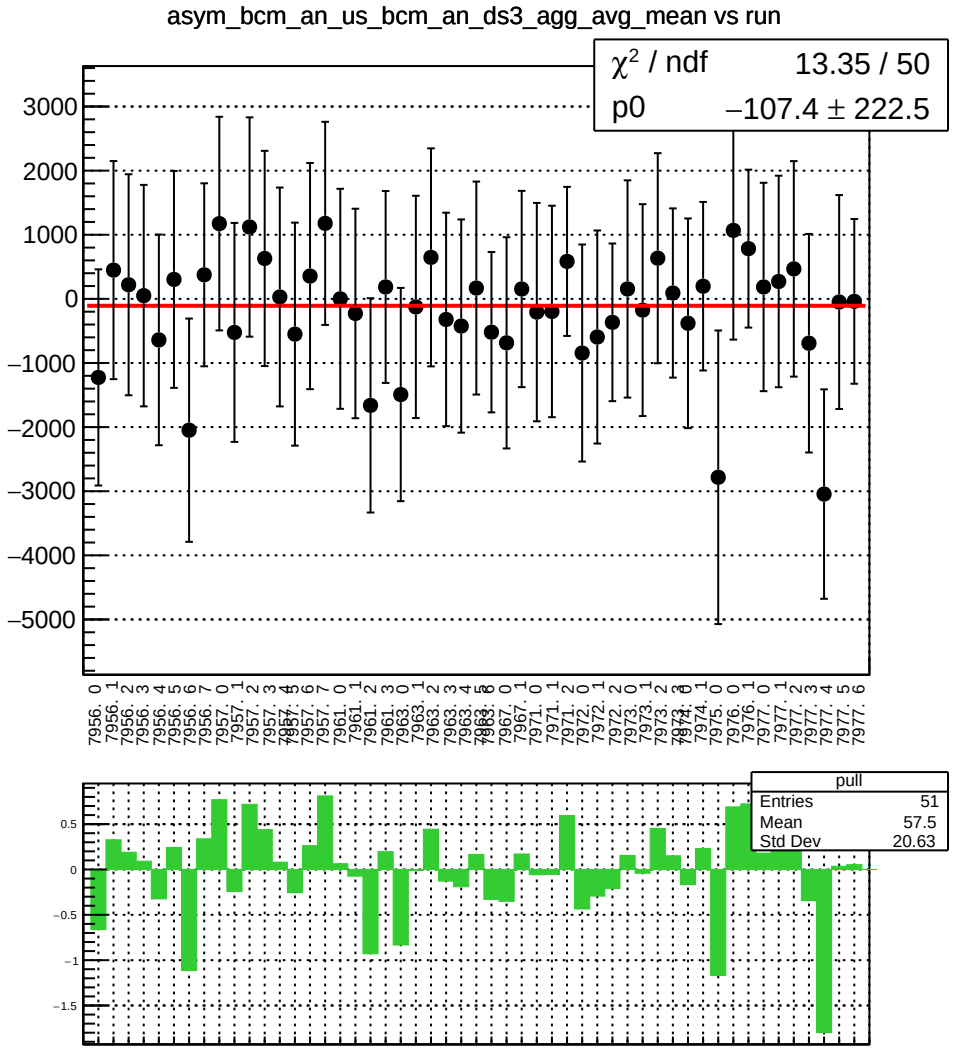
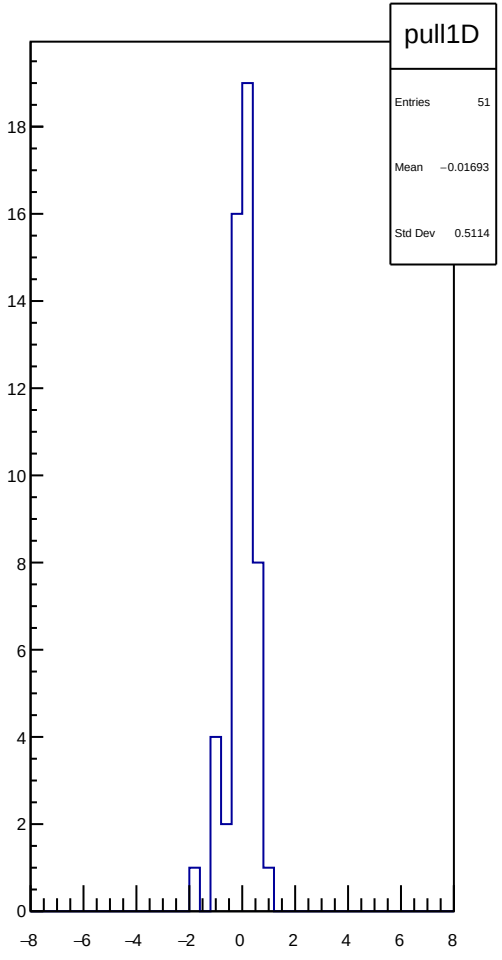
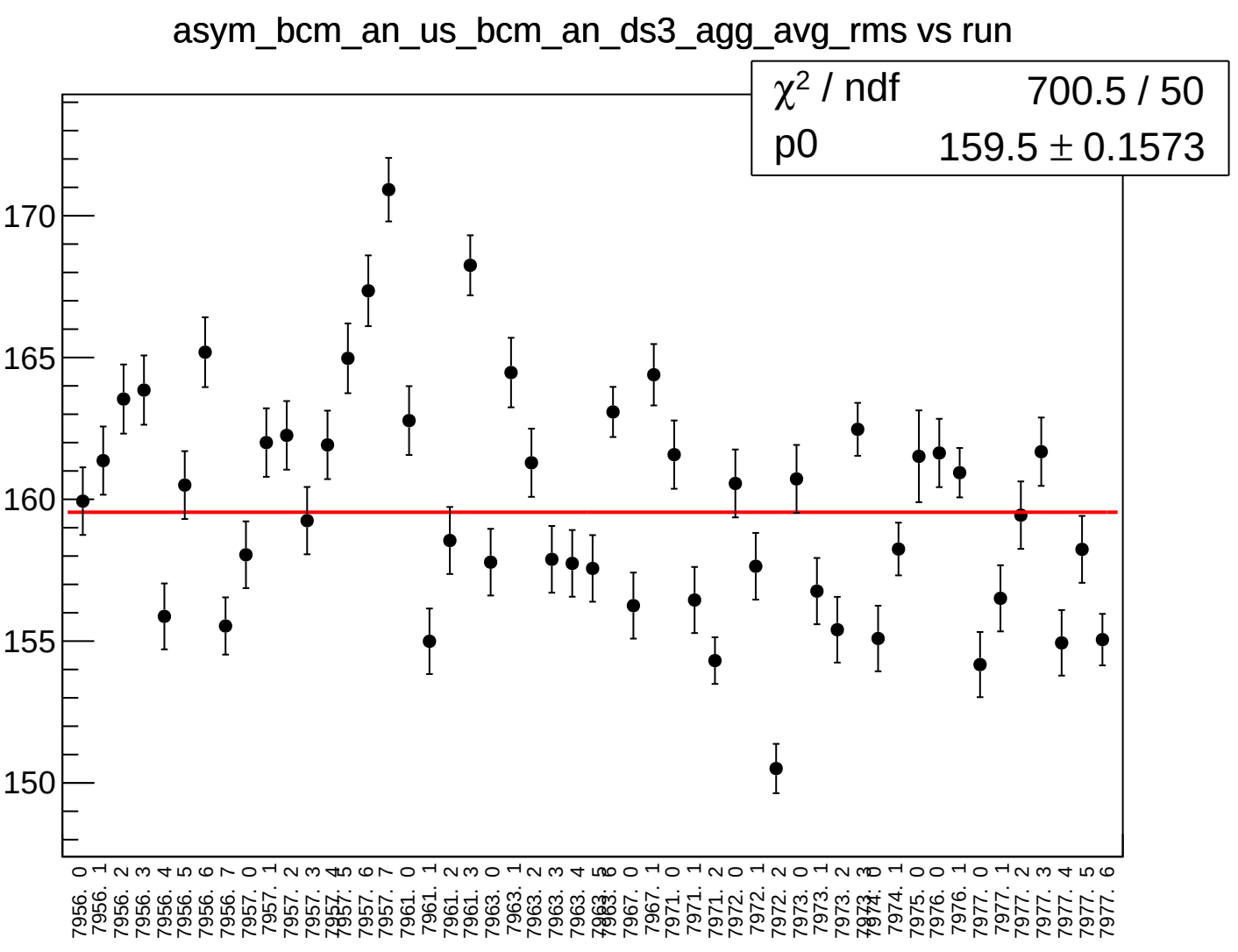
7977. 6


asym_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
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7961. 2
7961. 3
7963. 0
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7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
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7971. 2
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7972. 1
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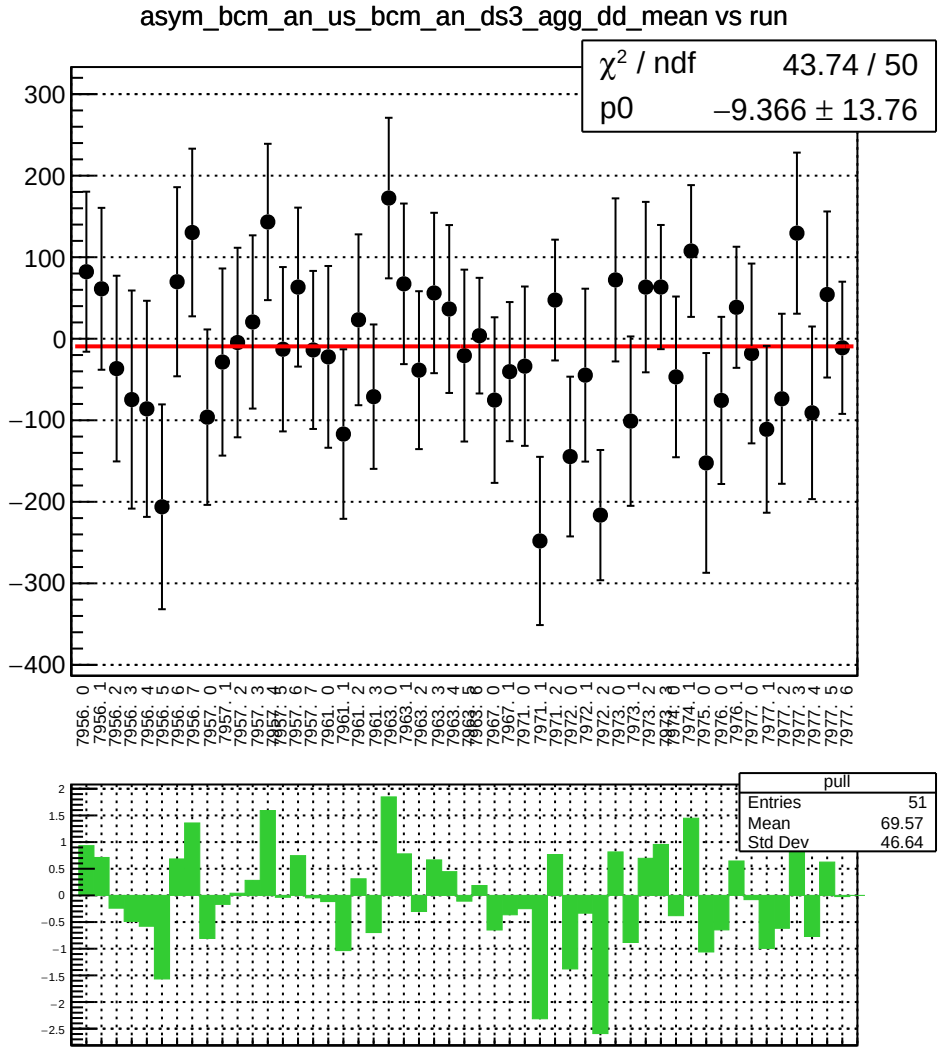
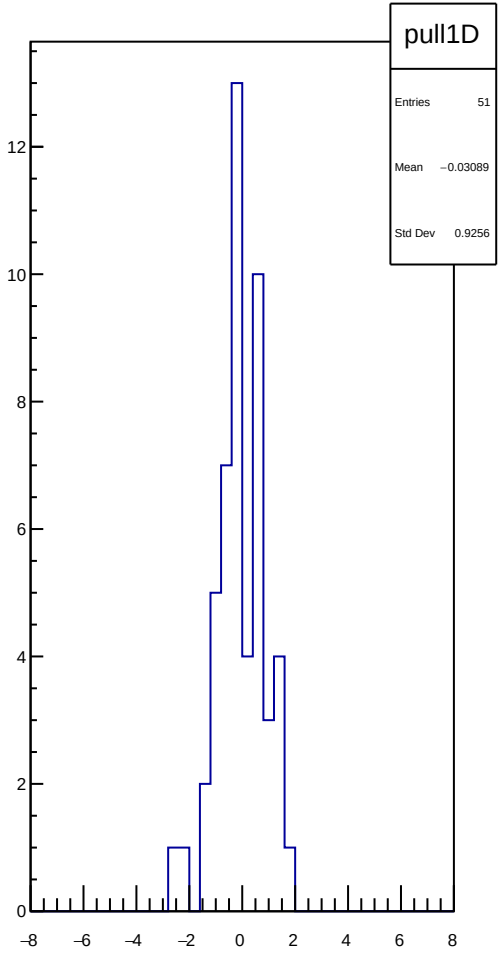
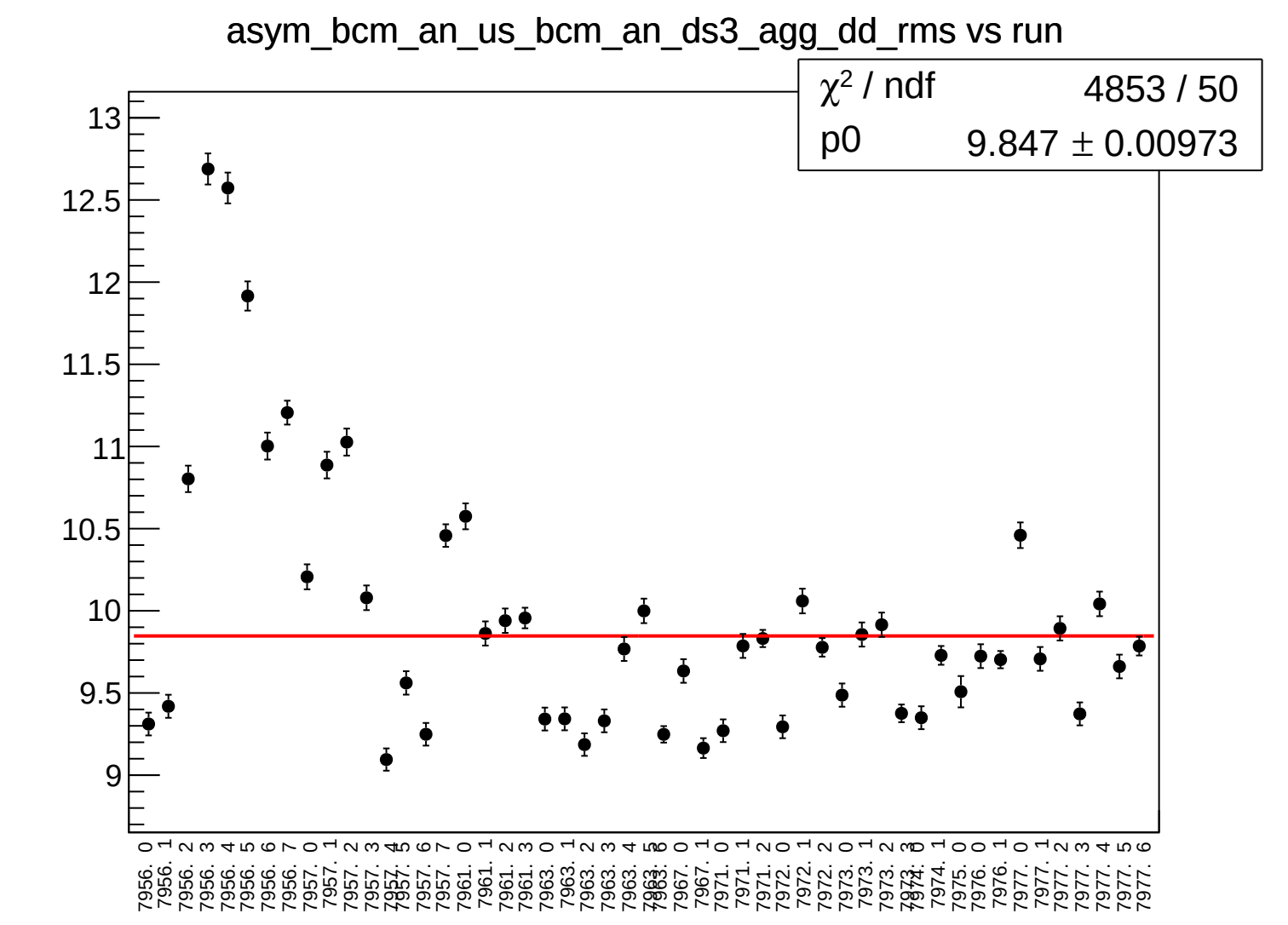

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 43.74 / 50
p0 −9.366 ± 13.76
pull
Entries 51
Mean 69.57
Std Dev 46.64


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
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7961. 2
7961. 3
7963. 0
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7963. 2
7963. 3
7963. 4
7967. 0
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7971. 0
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7973. 0
7973. 1
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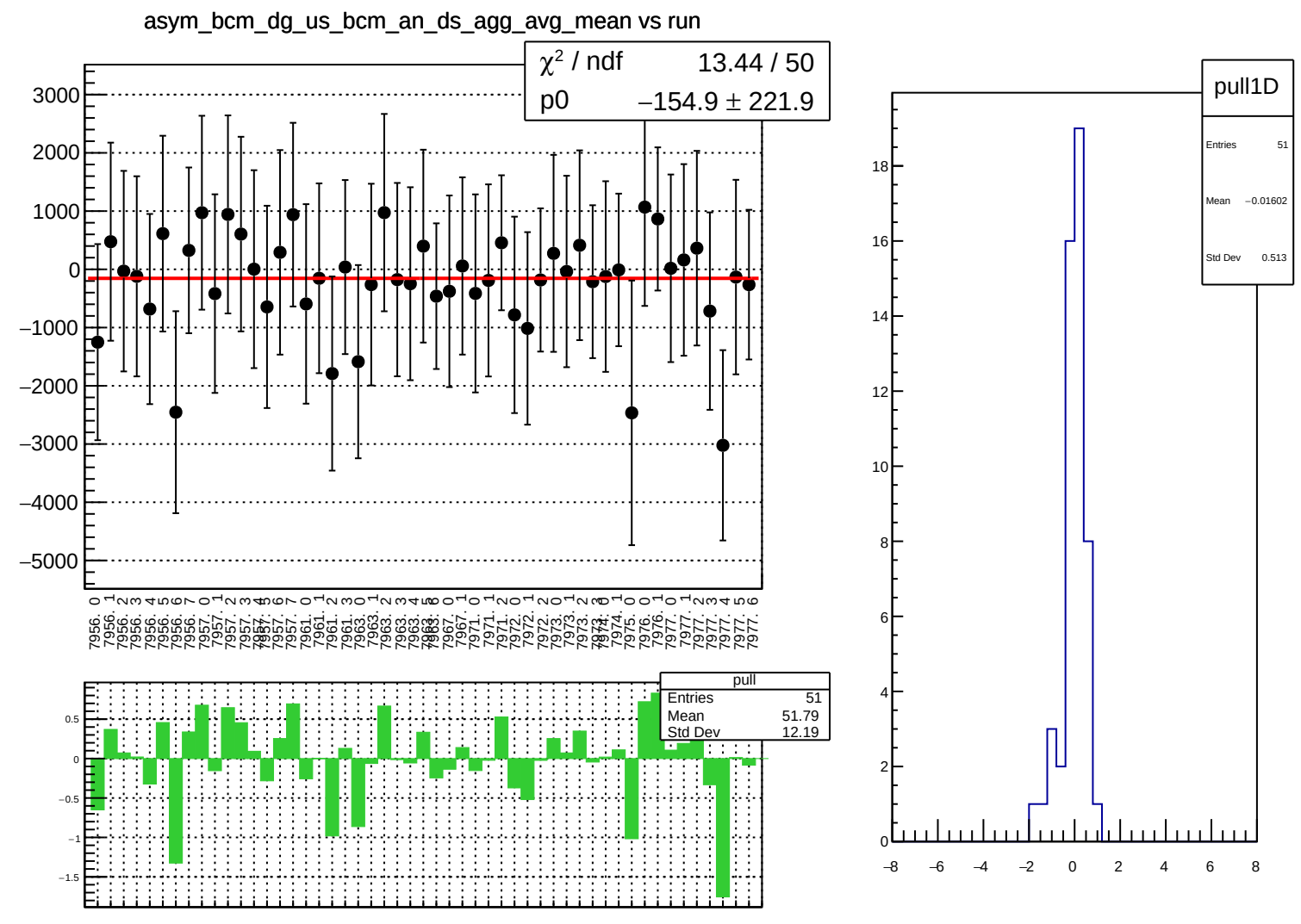
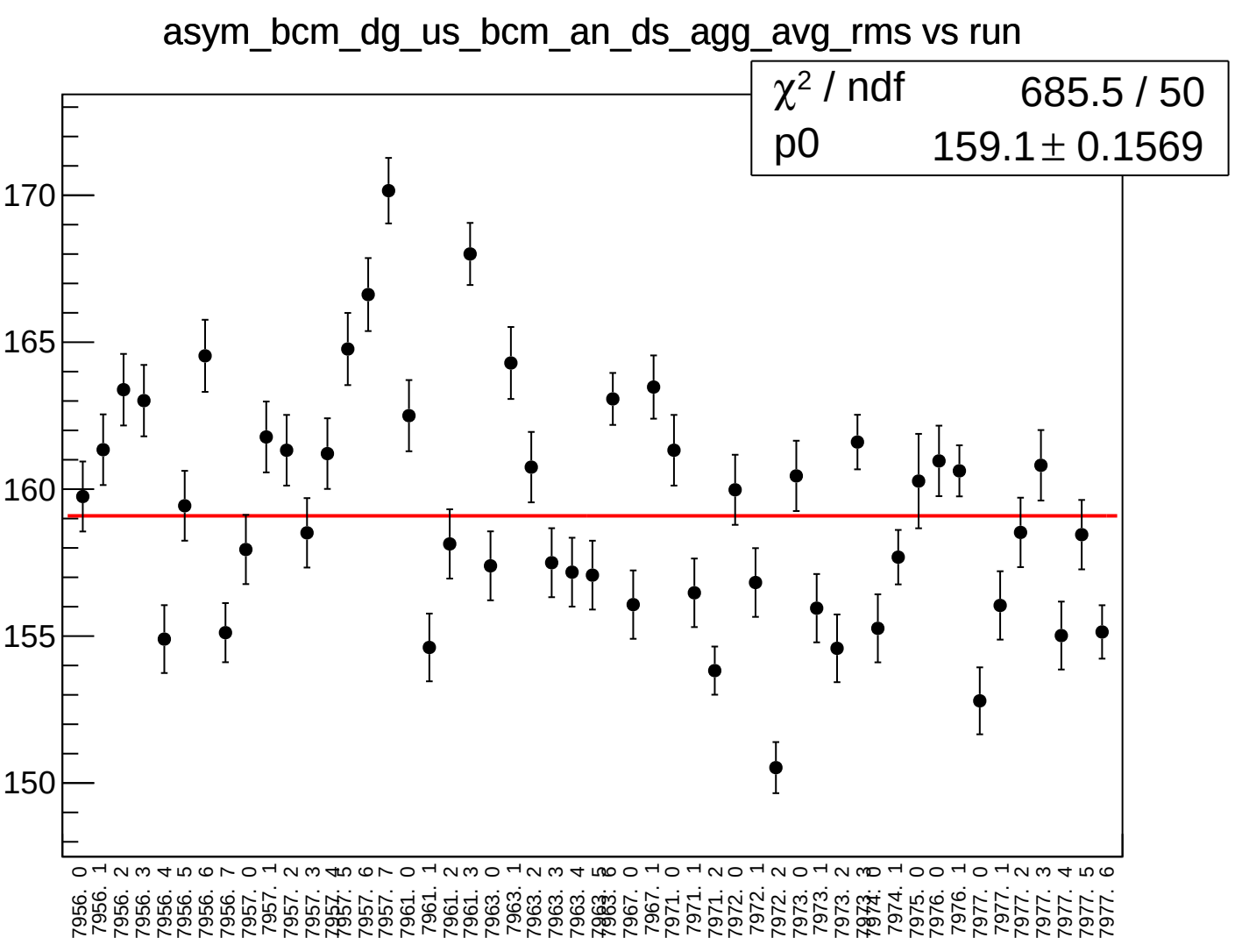

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.44 / 50
p0 −154.9 ± 221.9
pull
Entries 51
Mean 51.79
Std Dev 12.19
pull1D
Entries 51
Mean −0.01602
Std Dev 0.513


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
7963. 1
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7963. 3
7963. 4
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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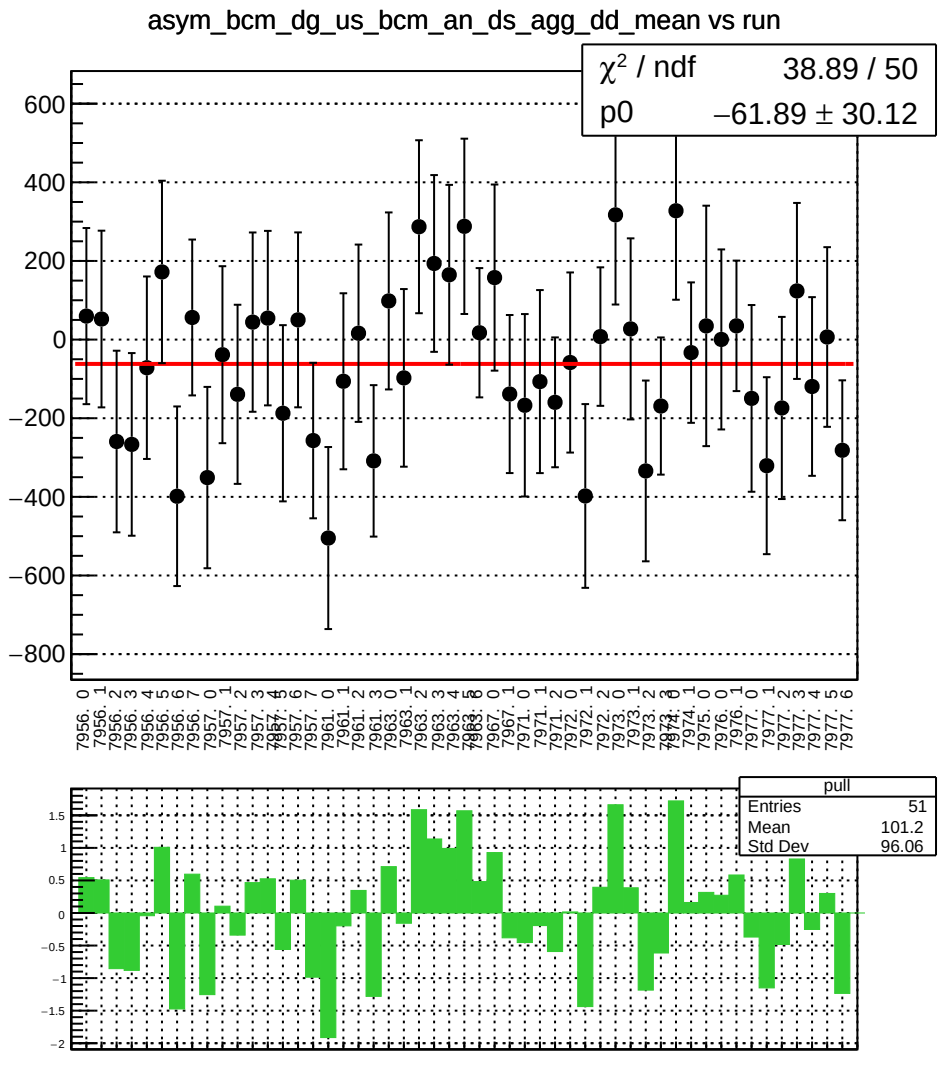
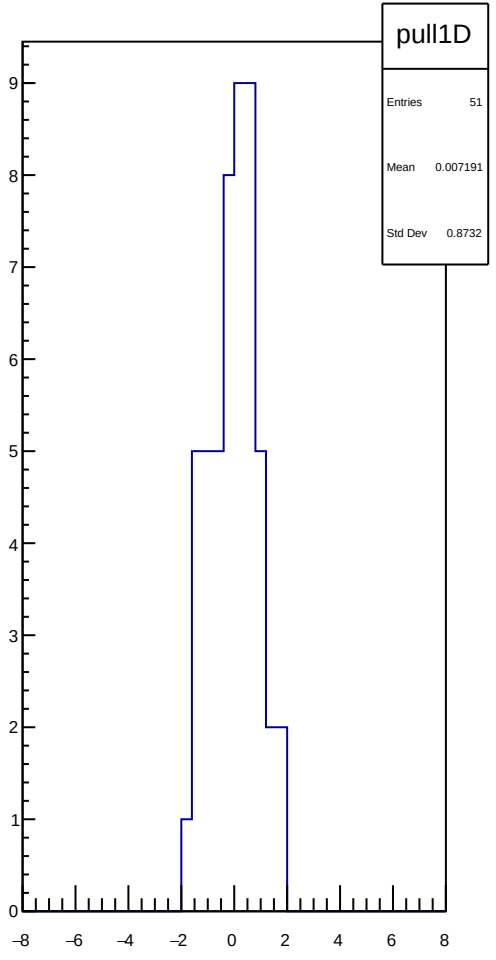
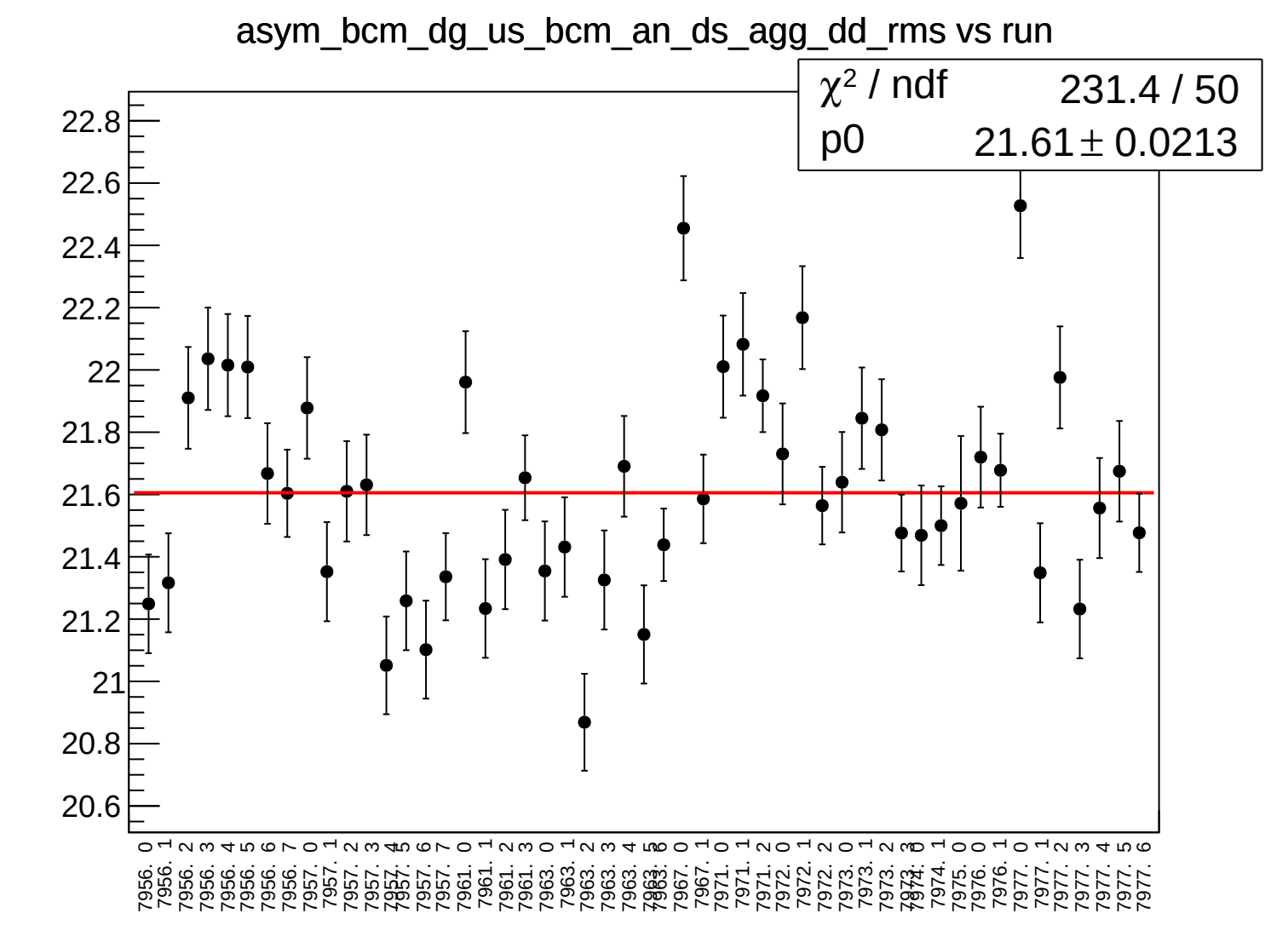
7977. 5
7977. 6


asym_bcm_dg_us_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
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
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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
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7973. 0
7973. 1
7973. 2
7974. 0
7974. 1
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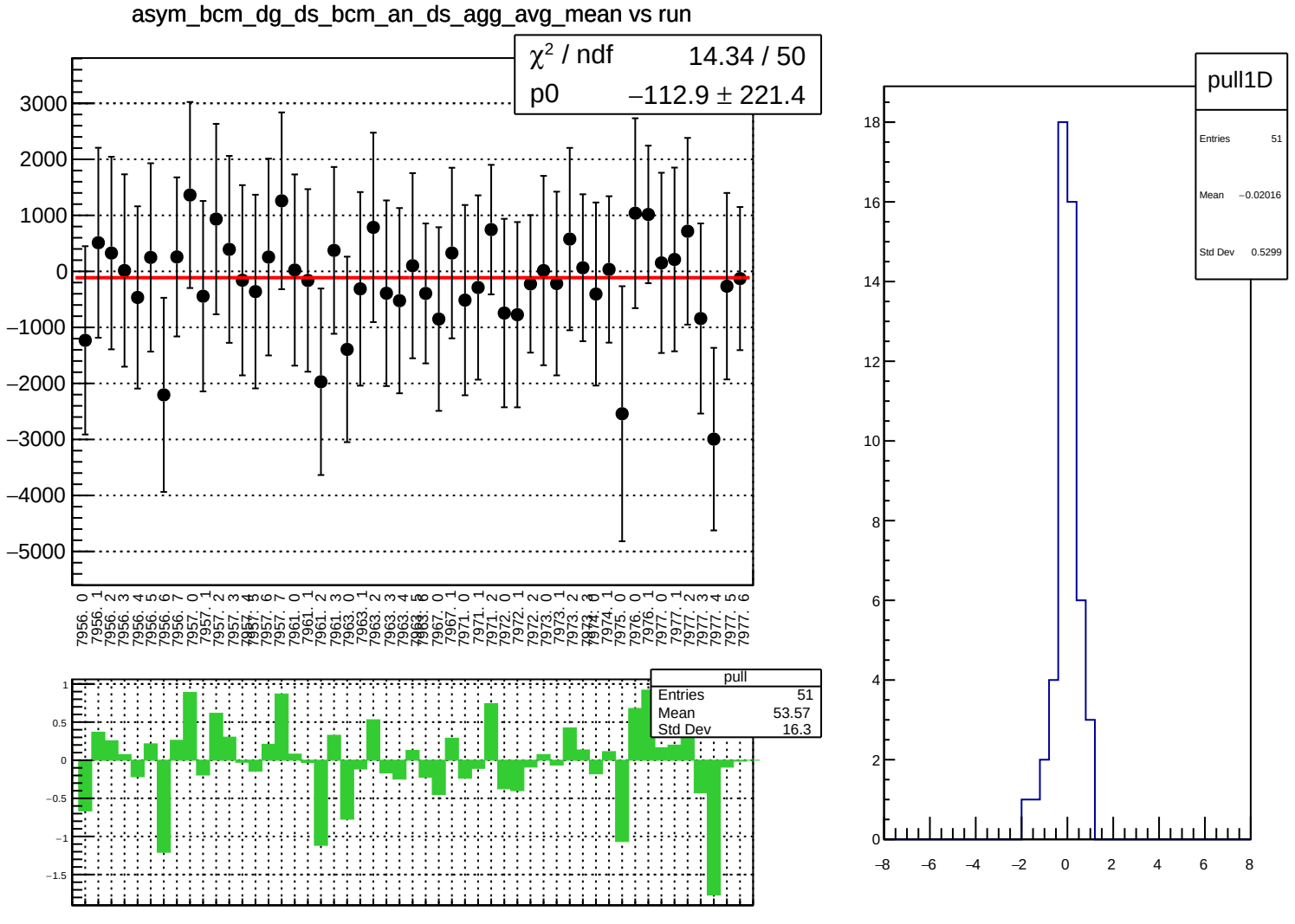
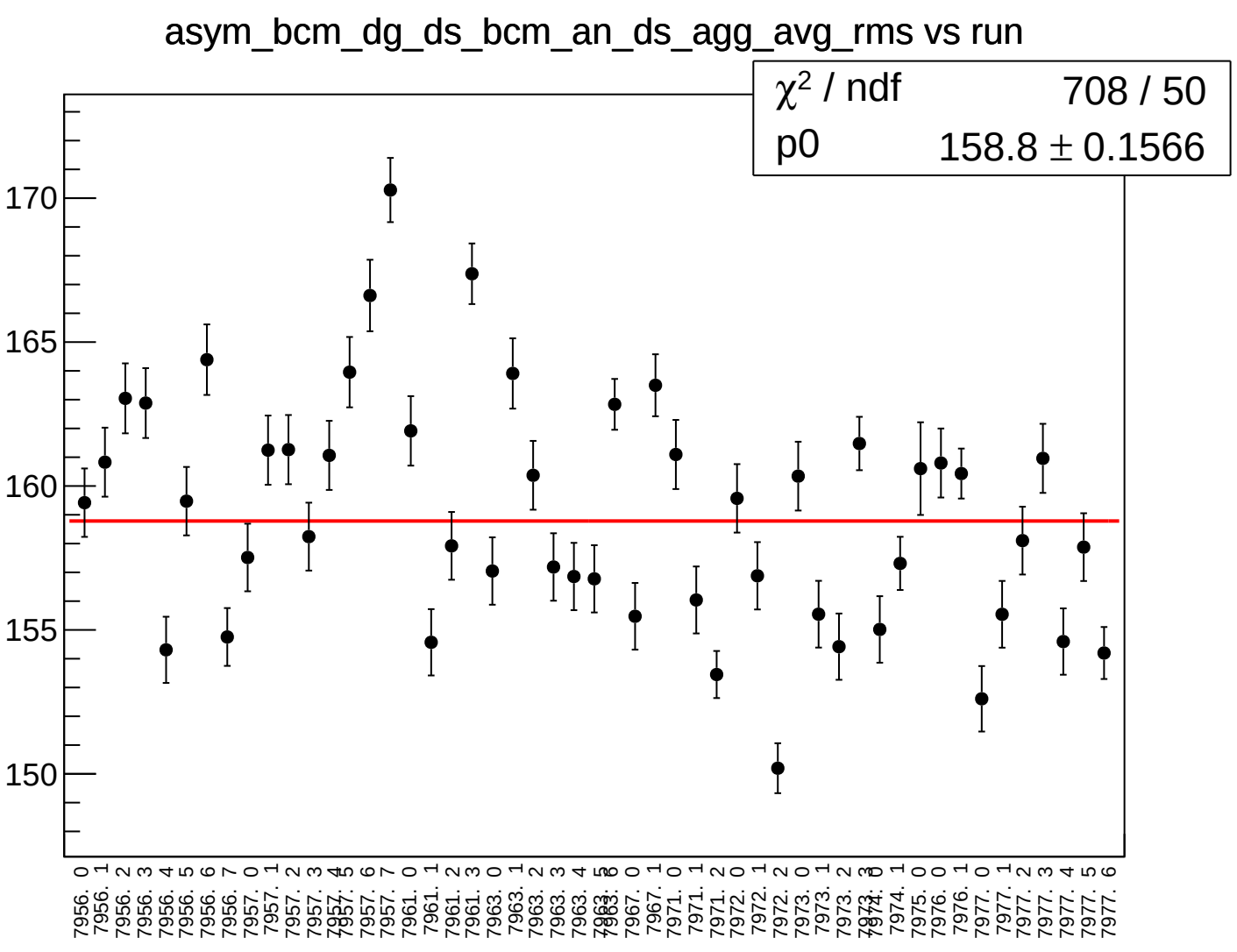
7977. 5
7977. 6


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
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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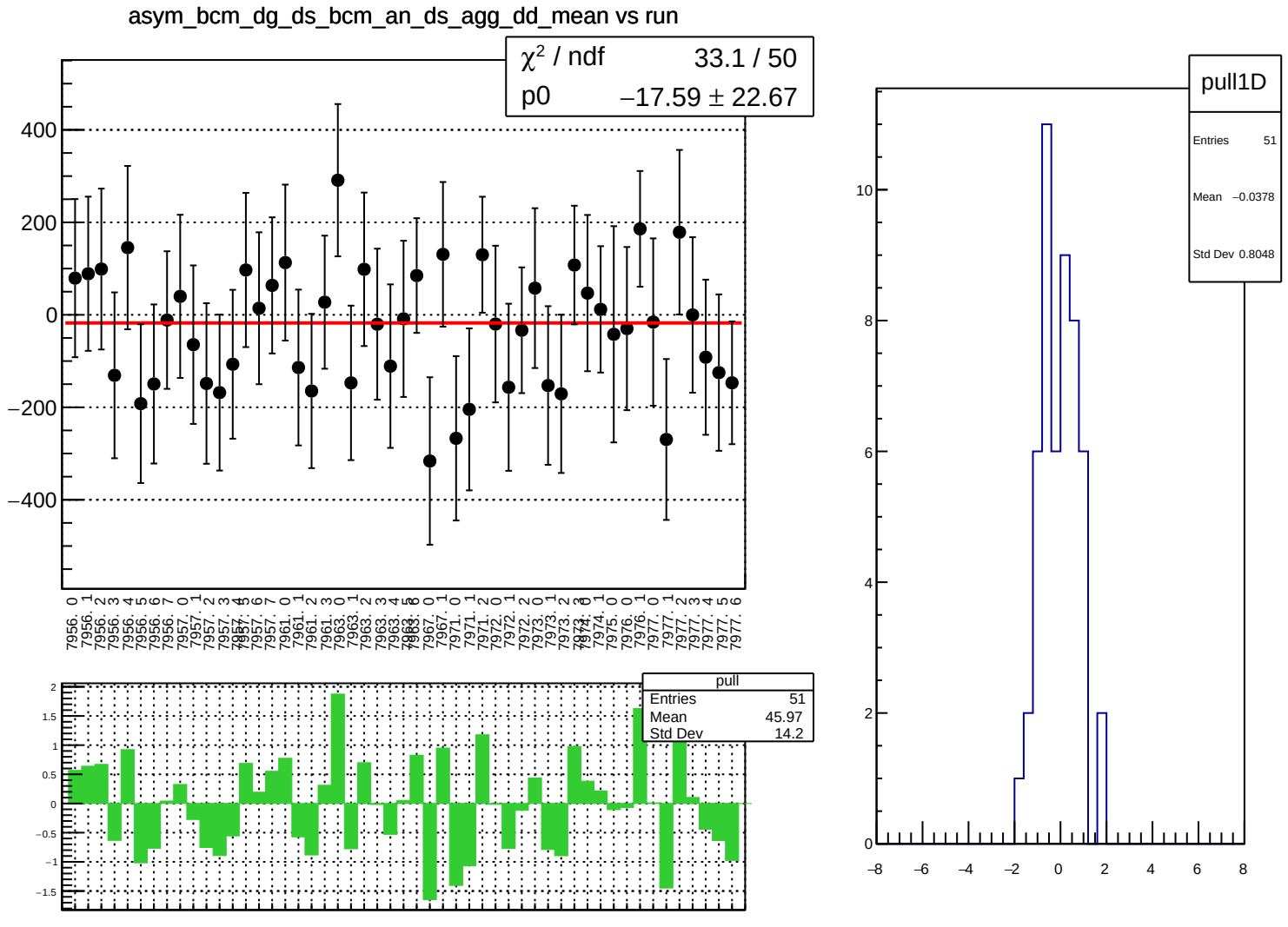
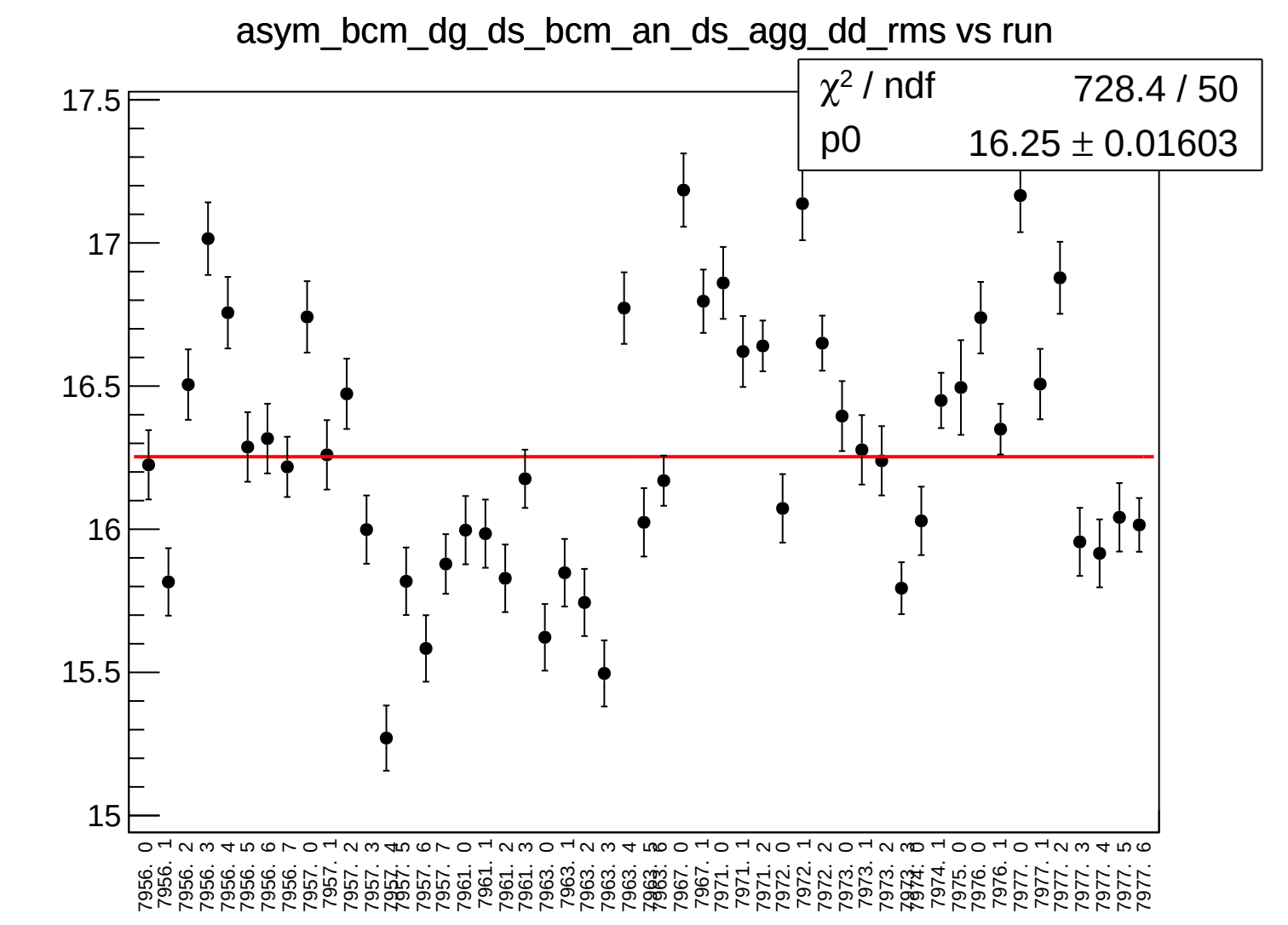
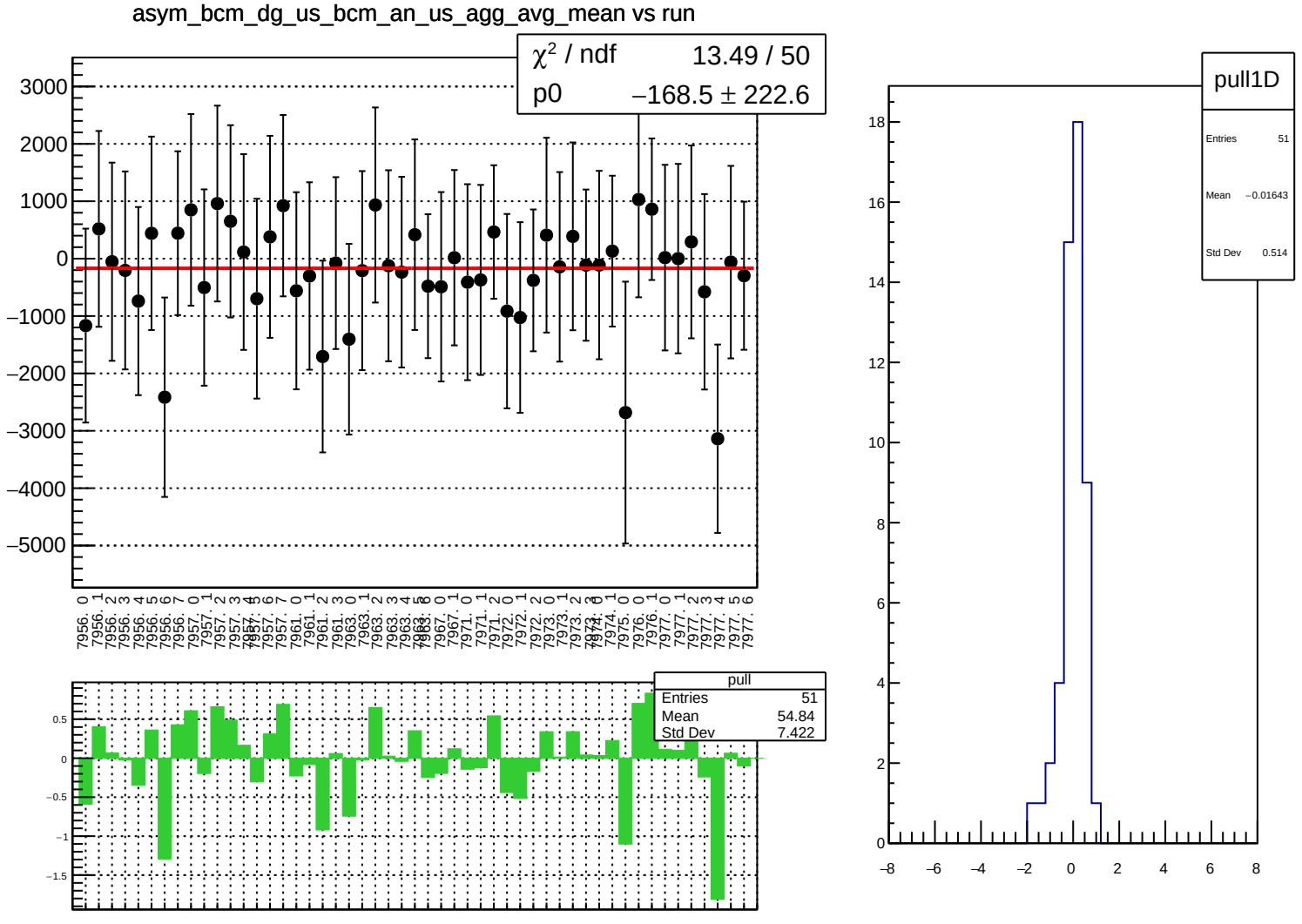
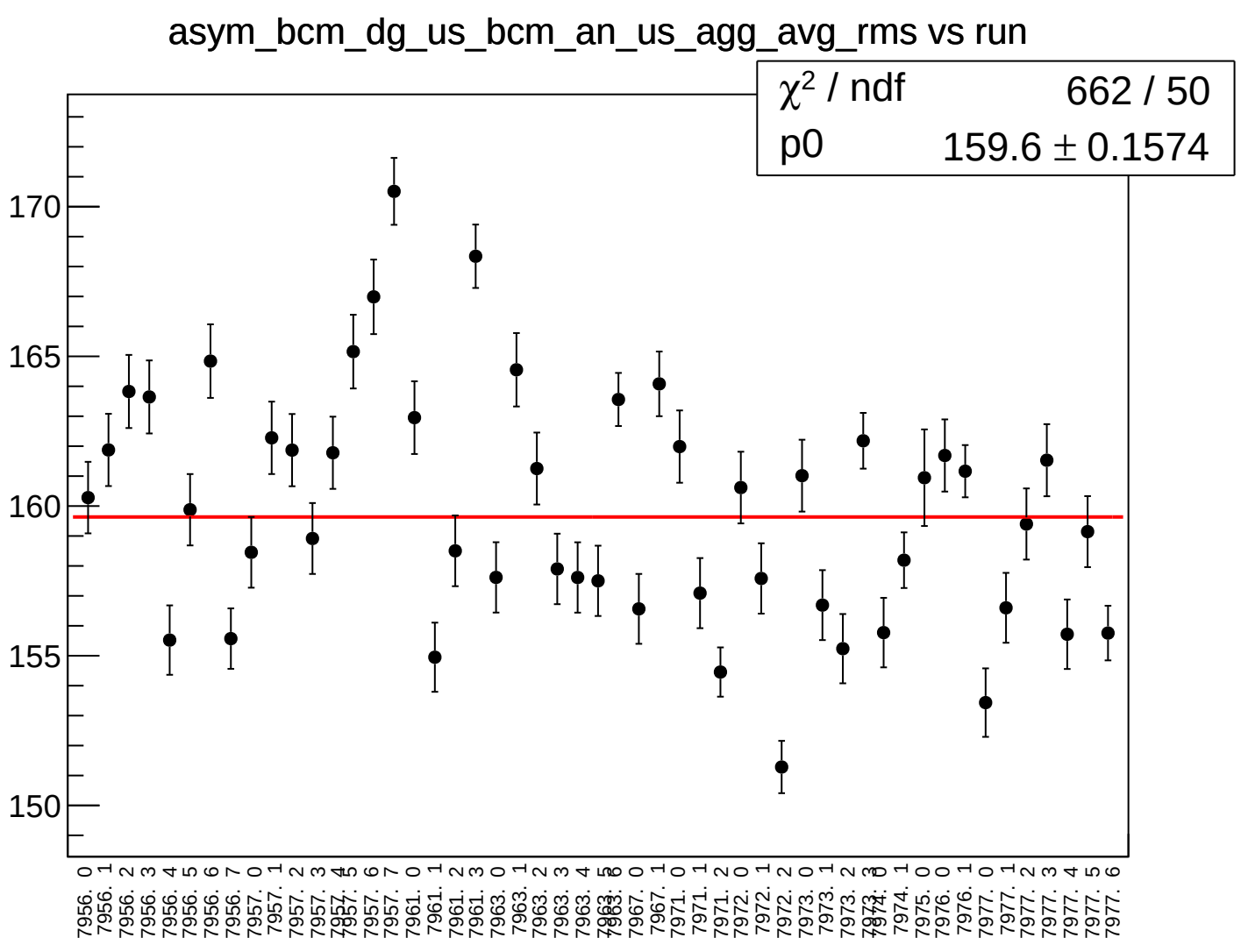
7977. 6


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
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7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
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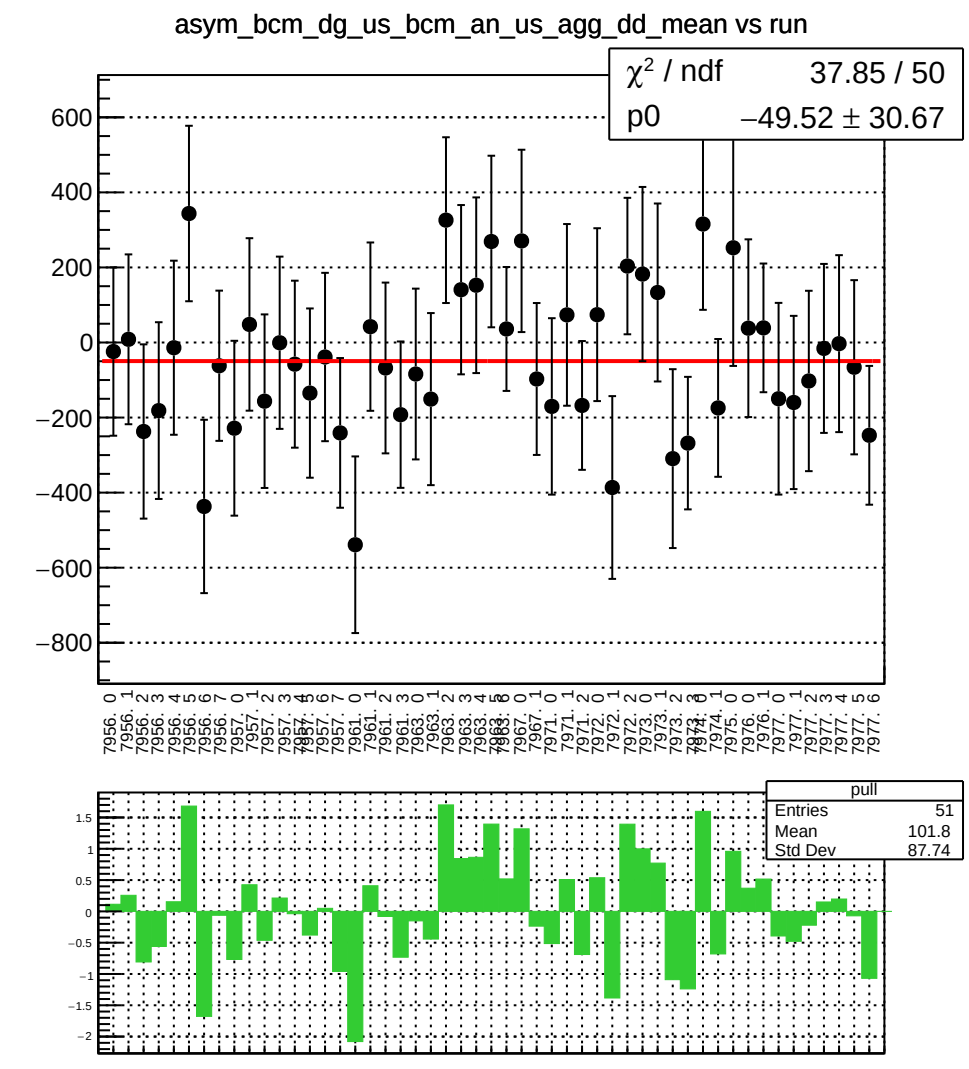
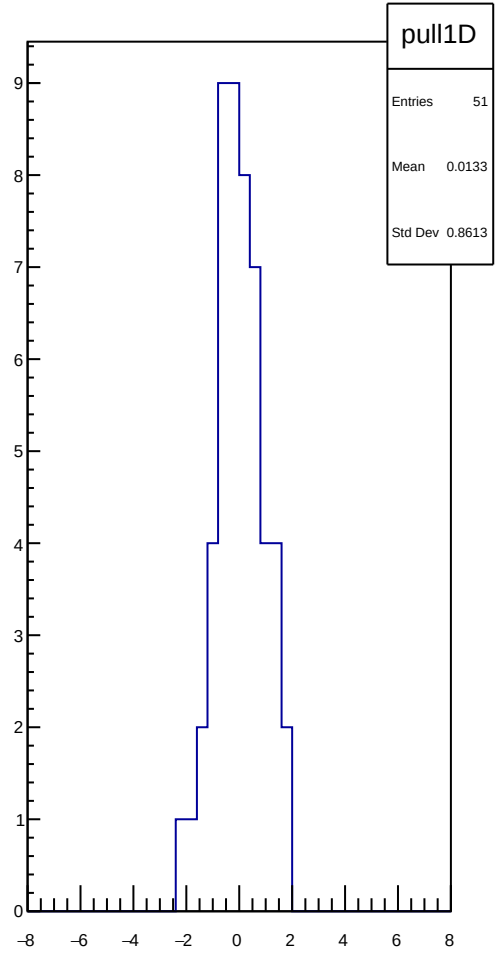
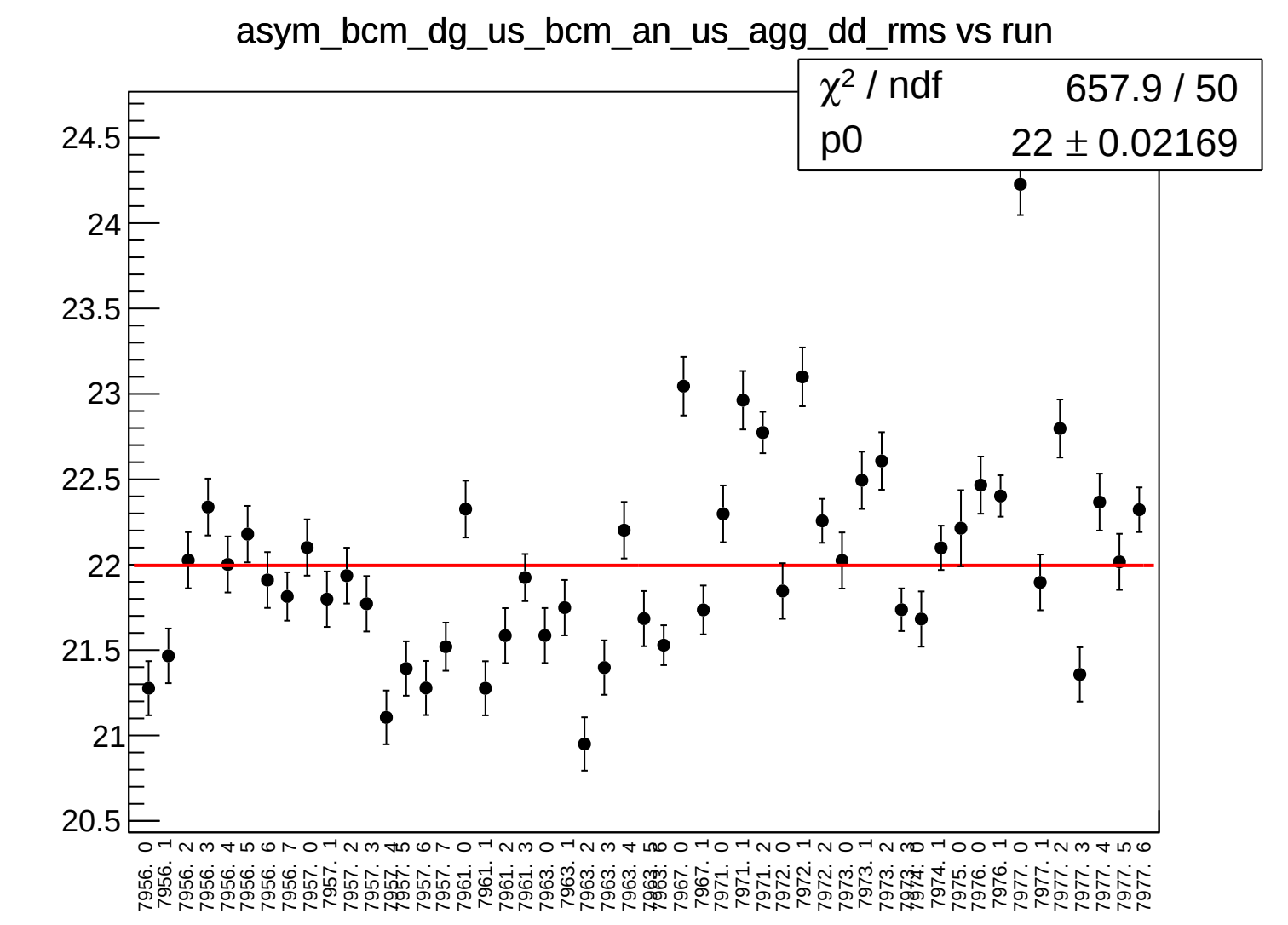
7977. 6


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
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7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
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7961. 2
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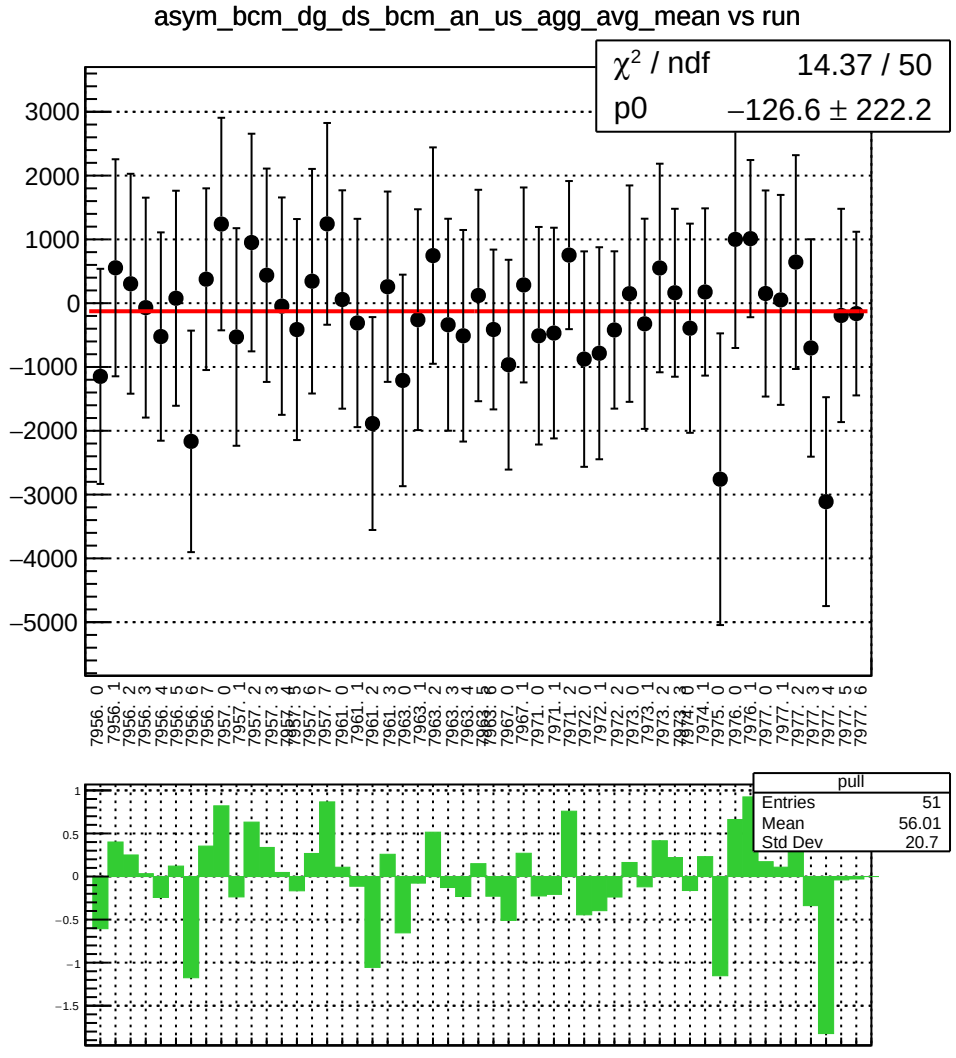
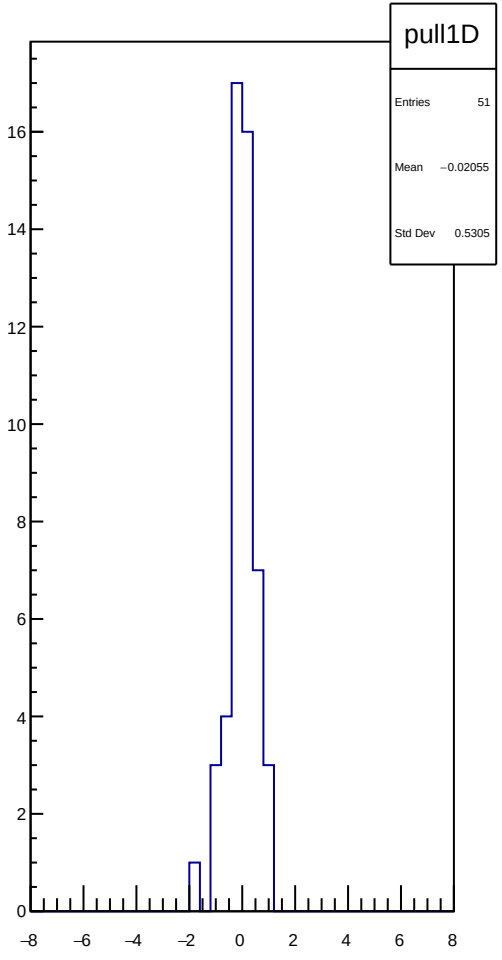
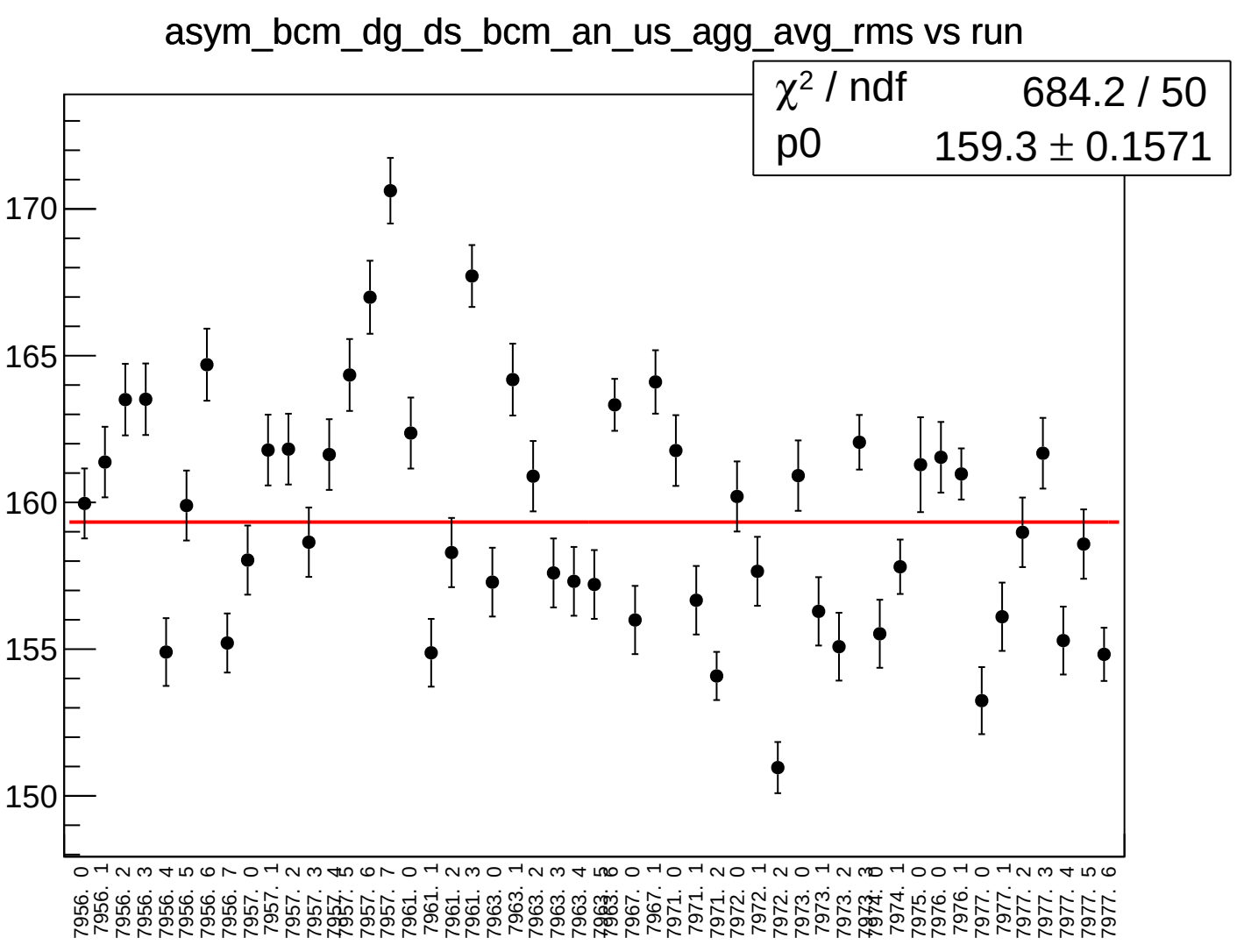
7977. 6


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
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7961. 0
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7963. 0
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7963. 4
7967. 0
7967. 1
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7971. 1
7971. 2
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7972. 2
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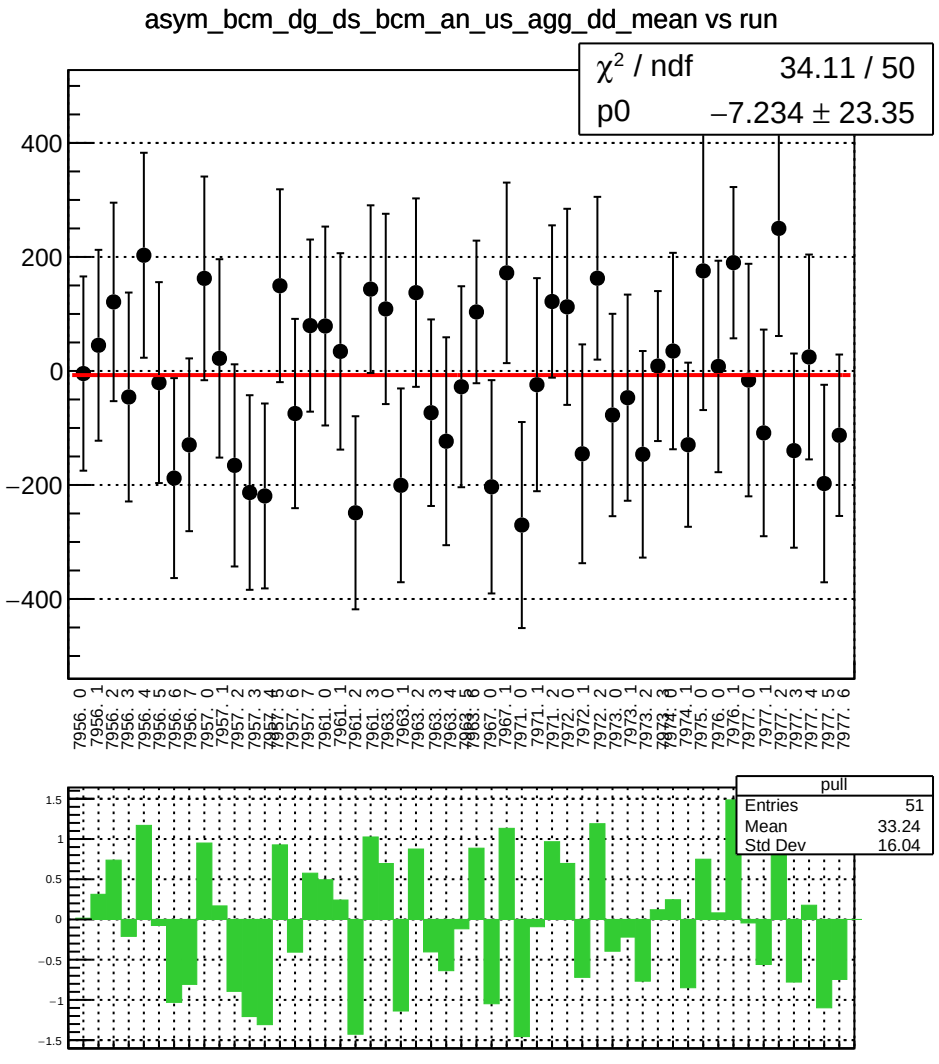
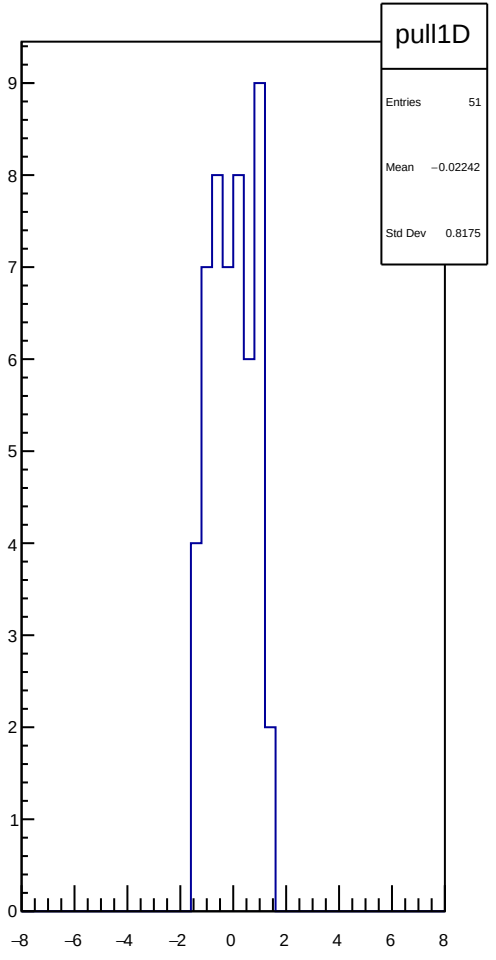
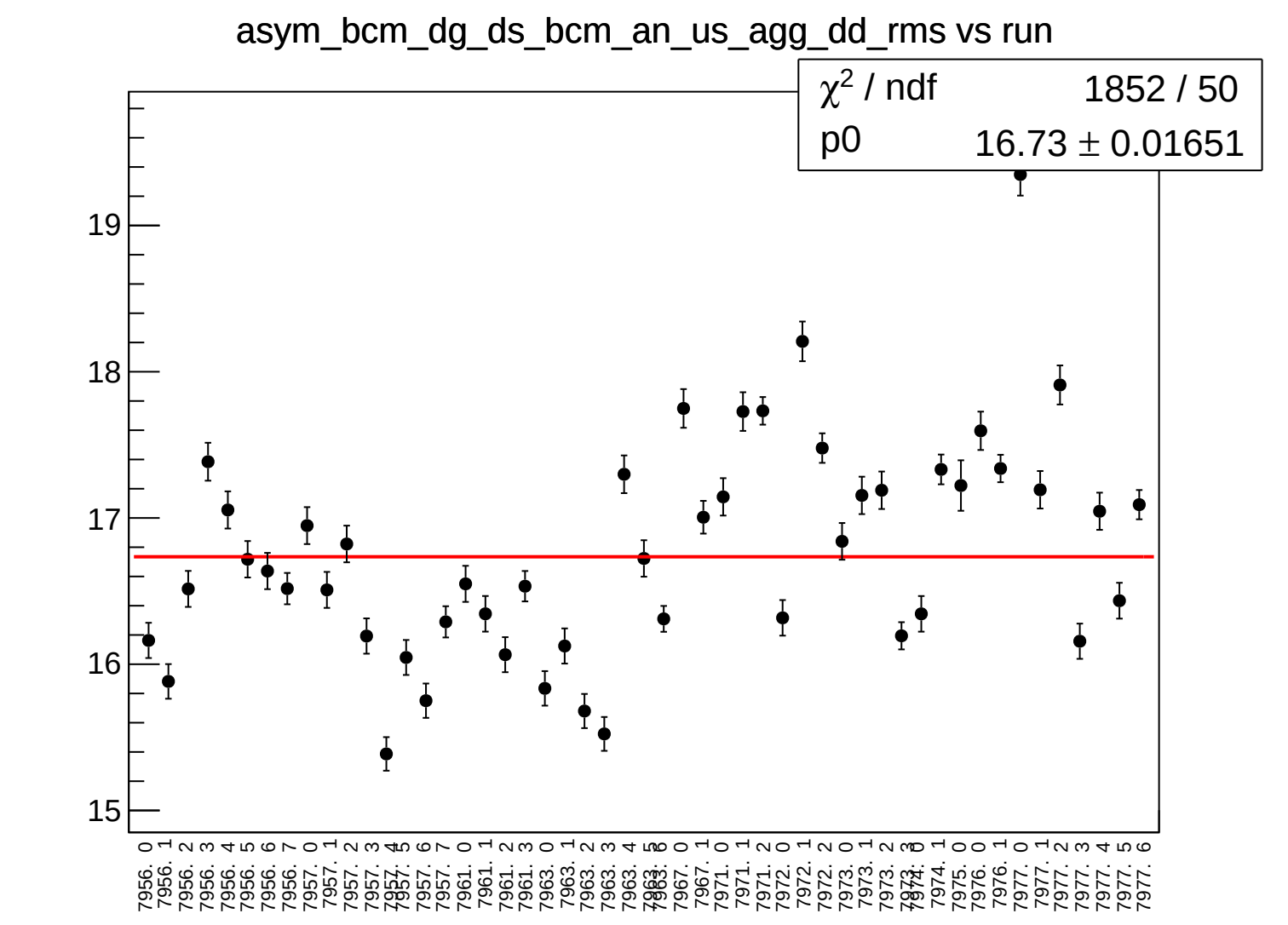
7977. 5
7977. 6


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
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7963. 0
7963. 1
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7963. 4
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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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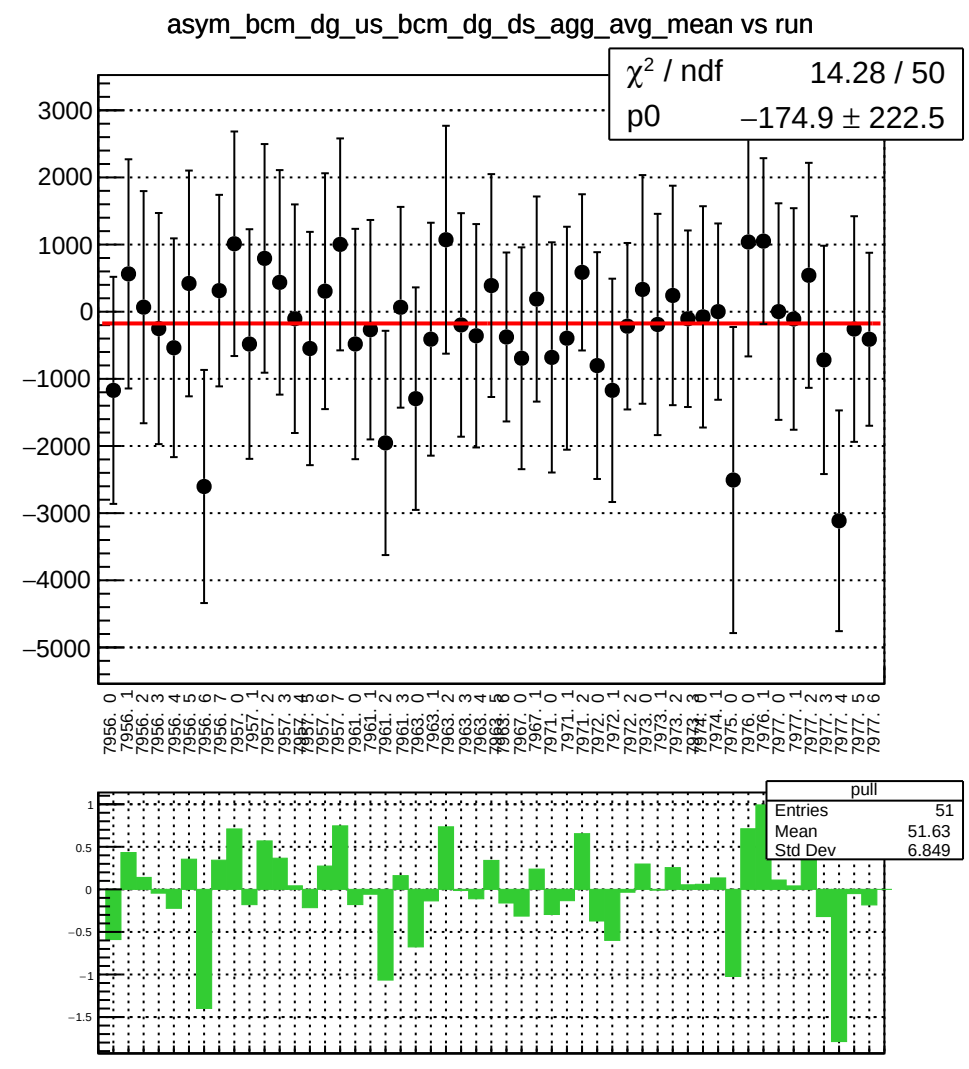
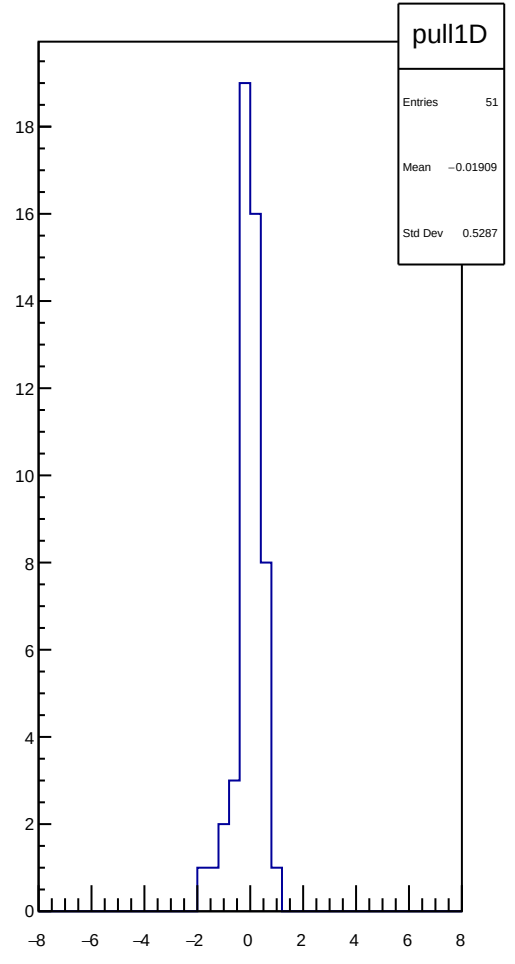
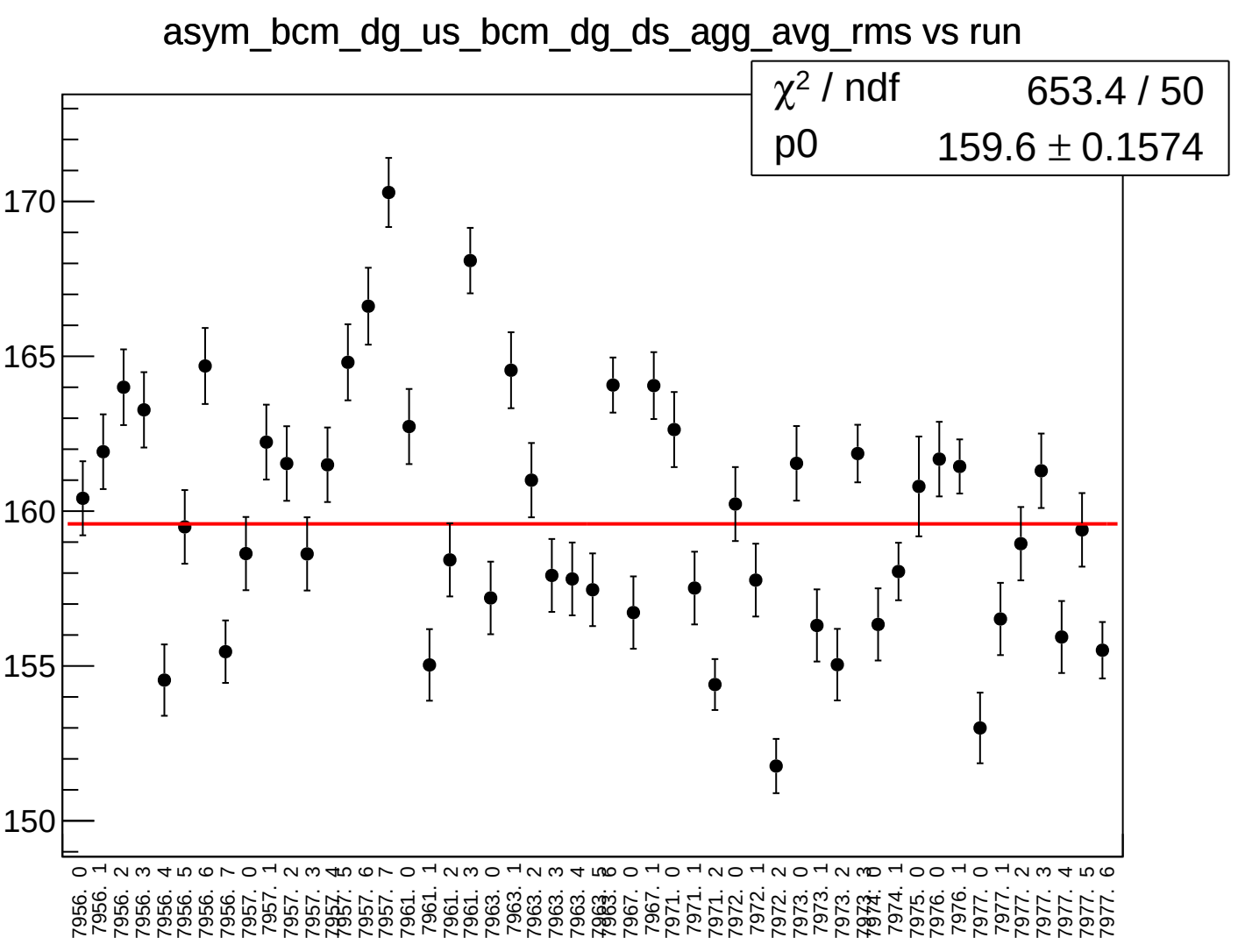
7977. 5
7977. 6


asym_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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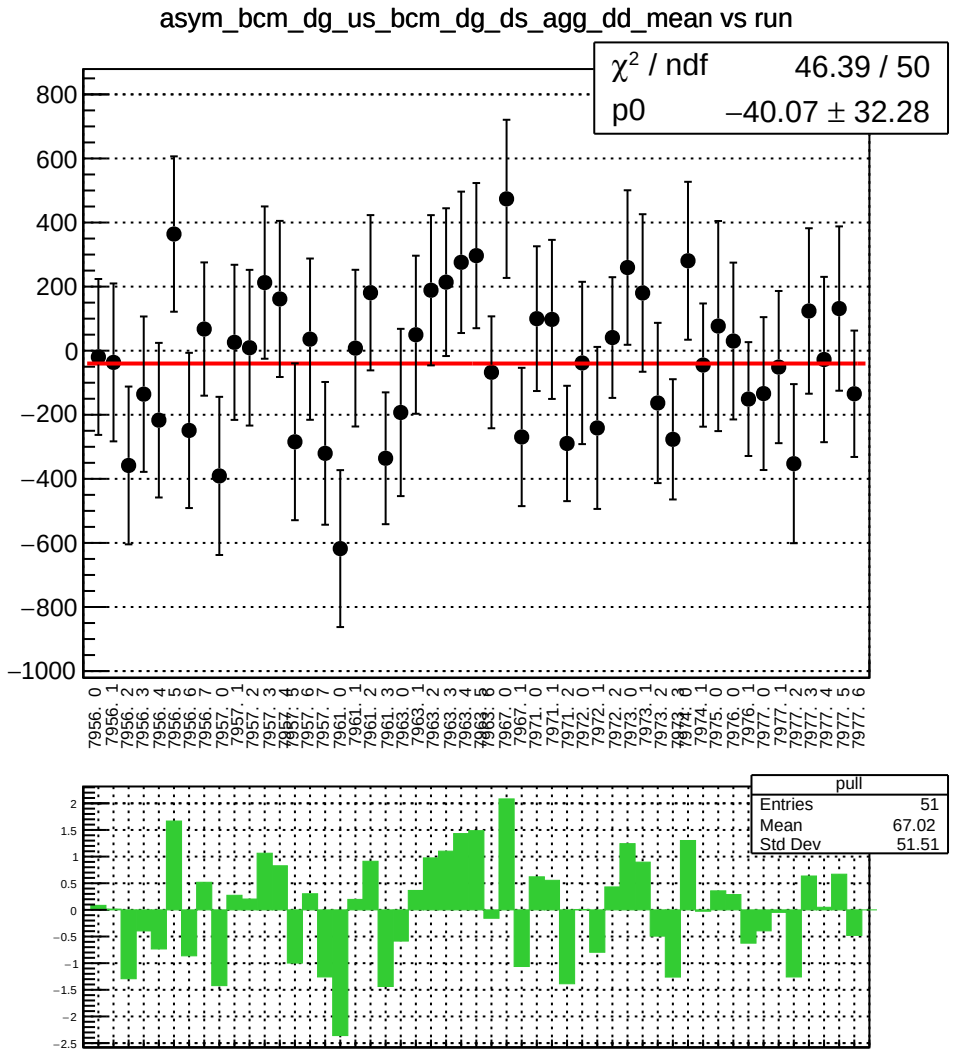
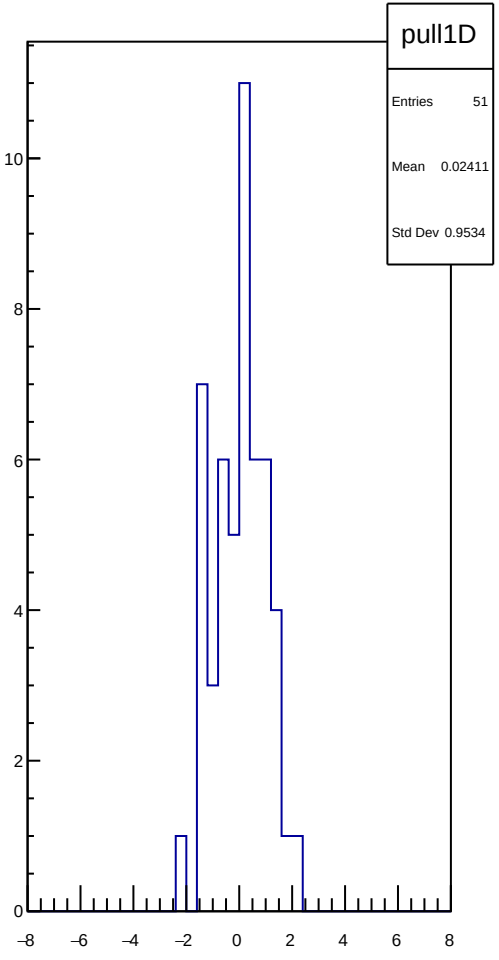
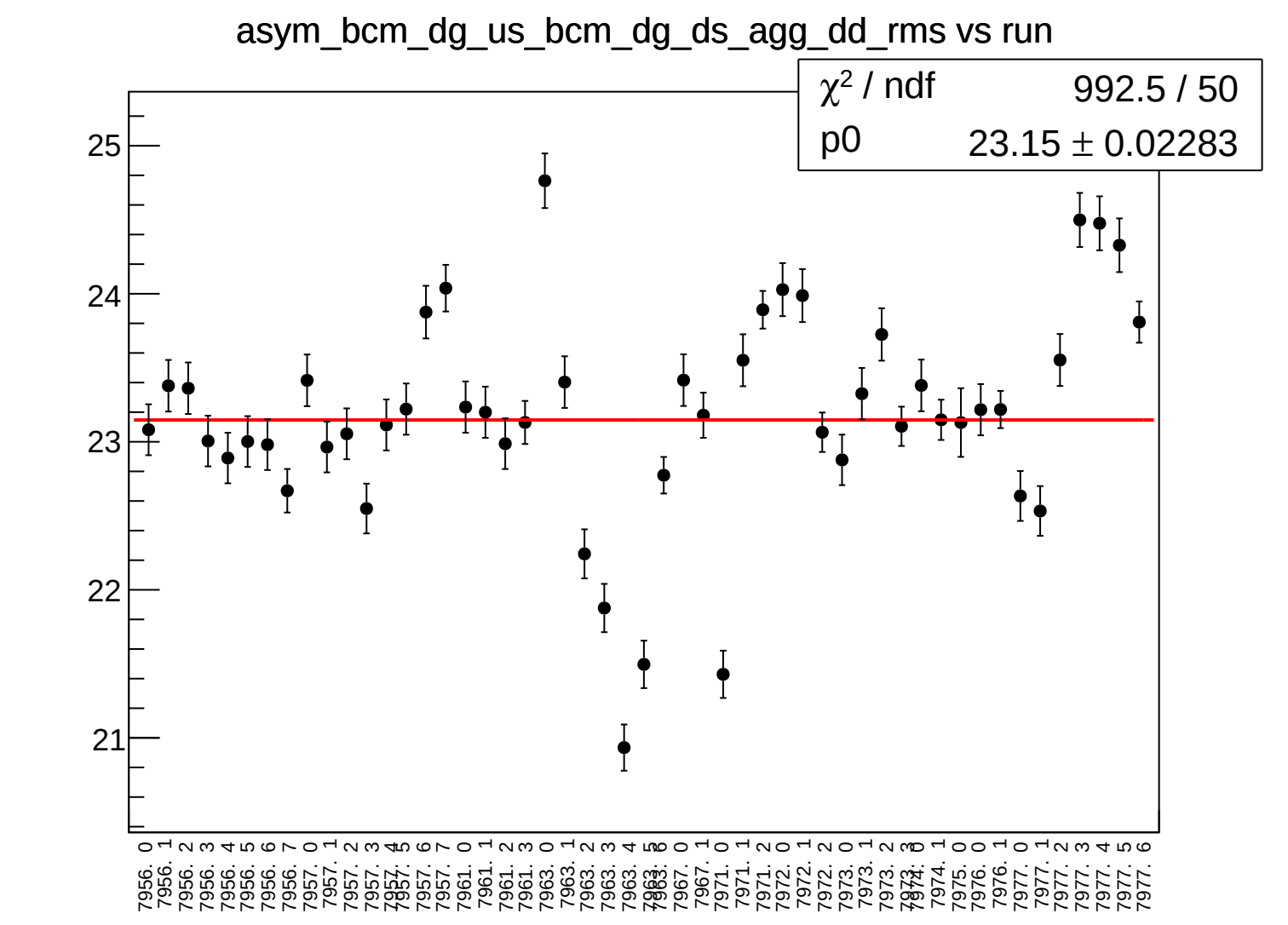
7977. 5
7977. 6


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
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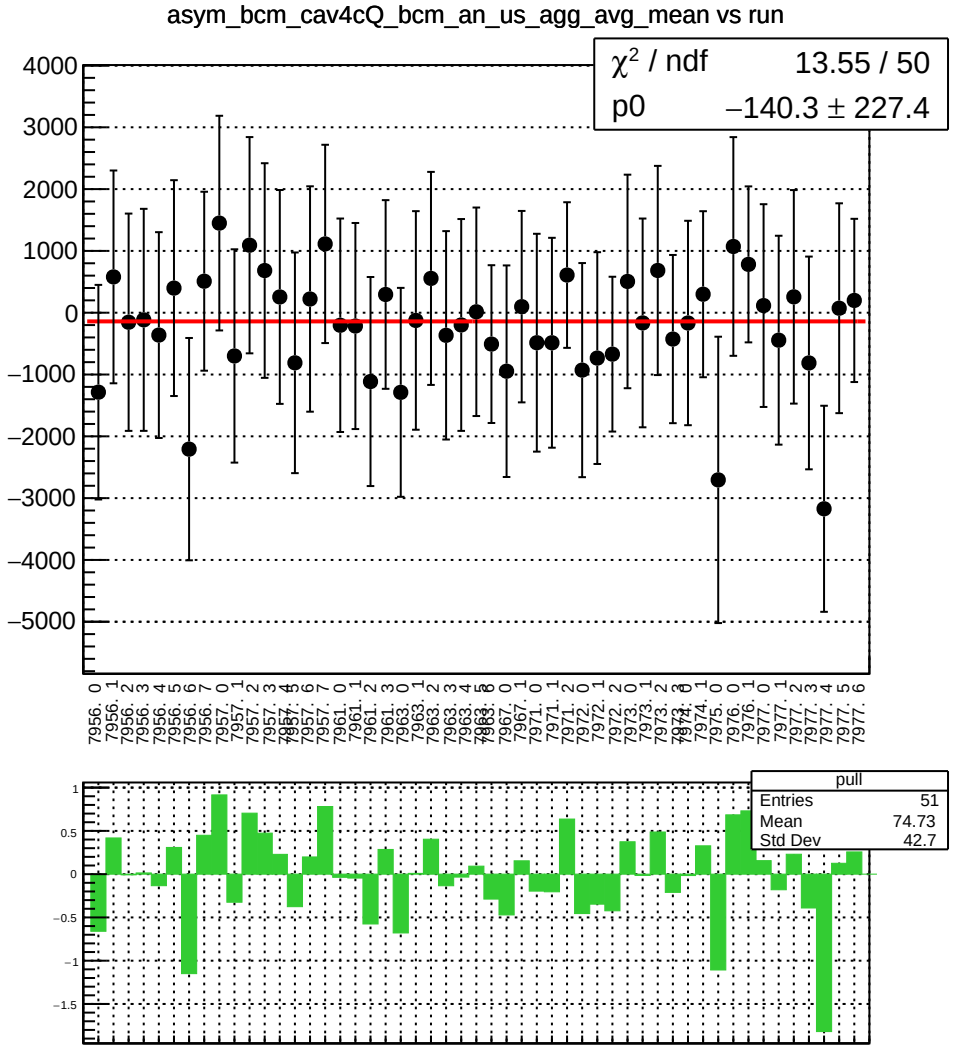
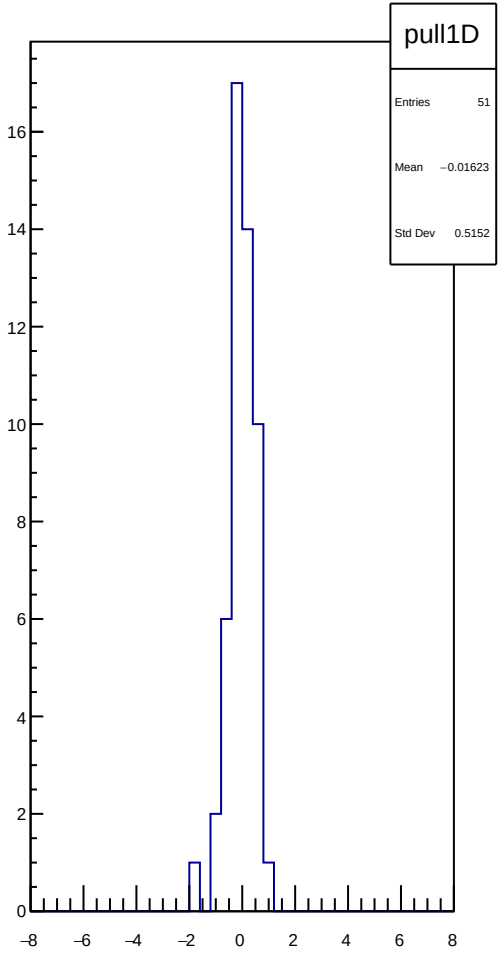
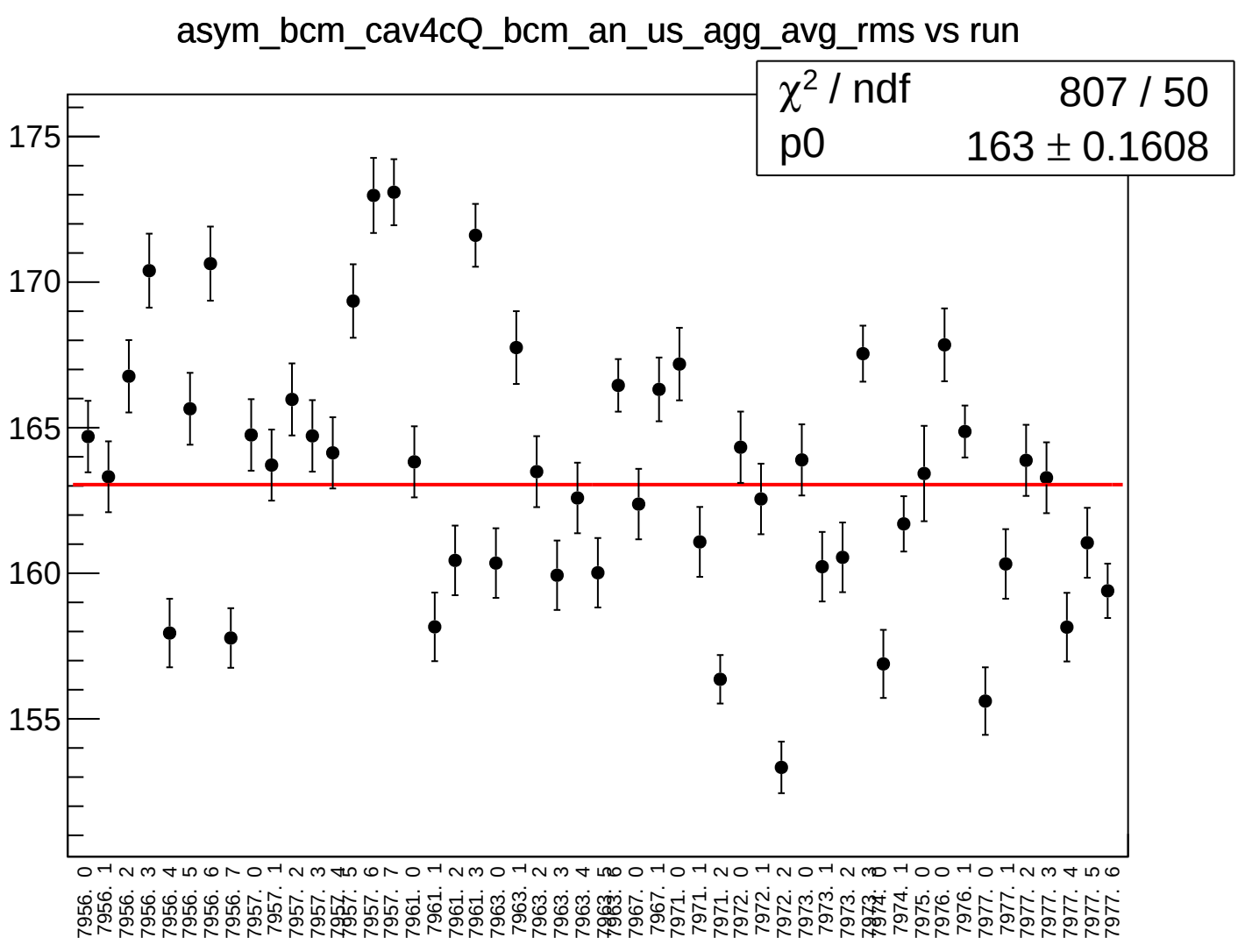
7977. 5
7977. 6


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
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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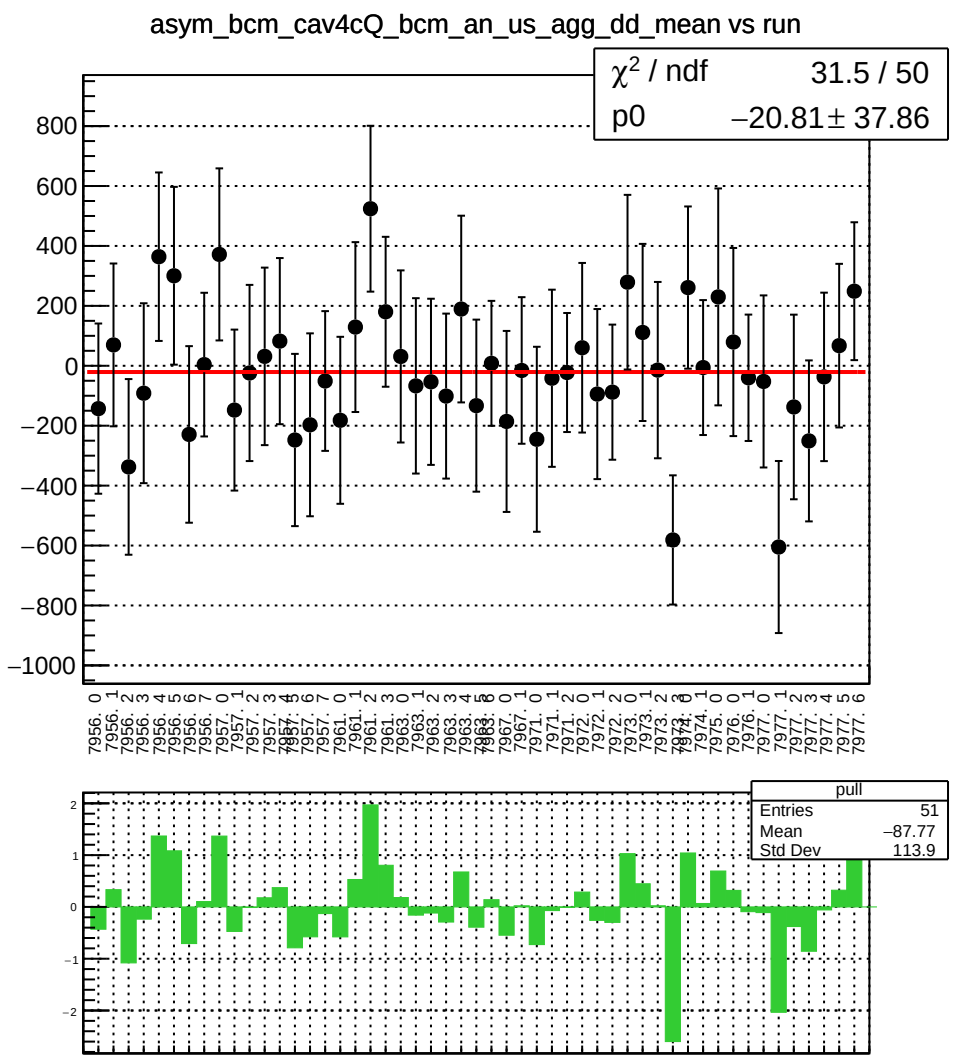
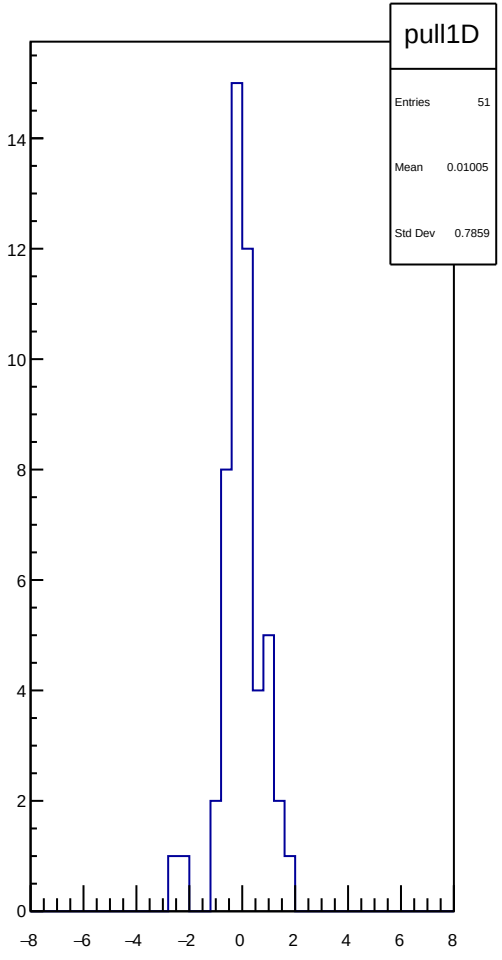
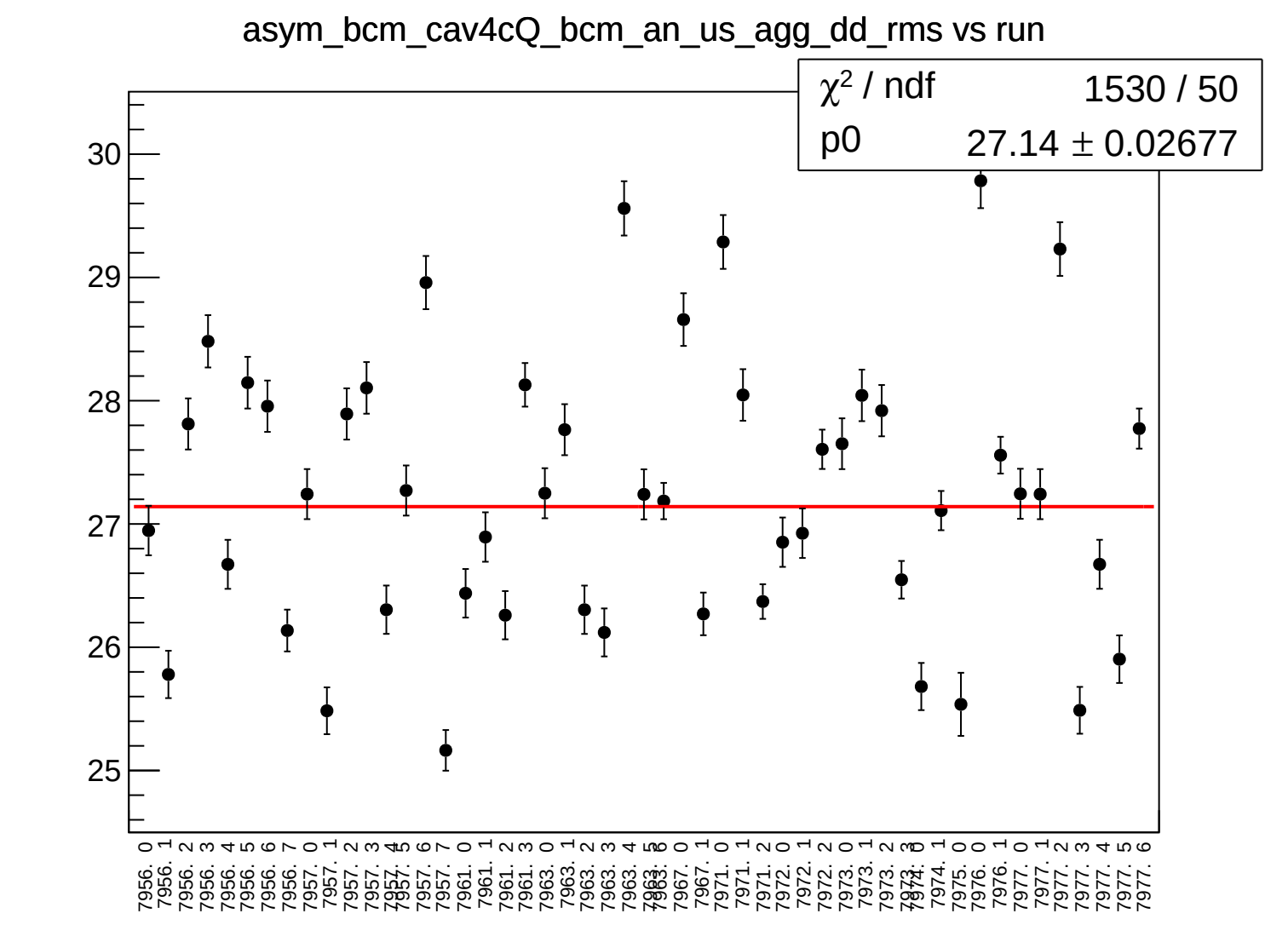
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_an_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
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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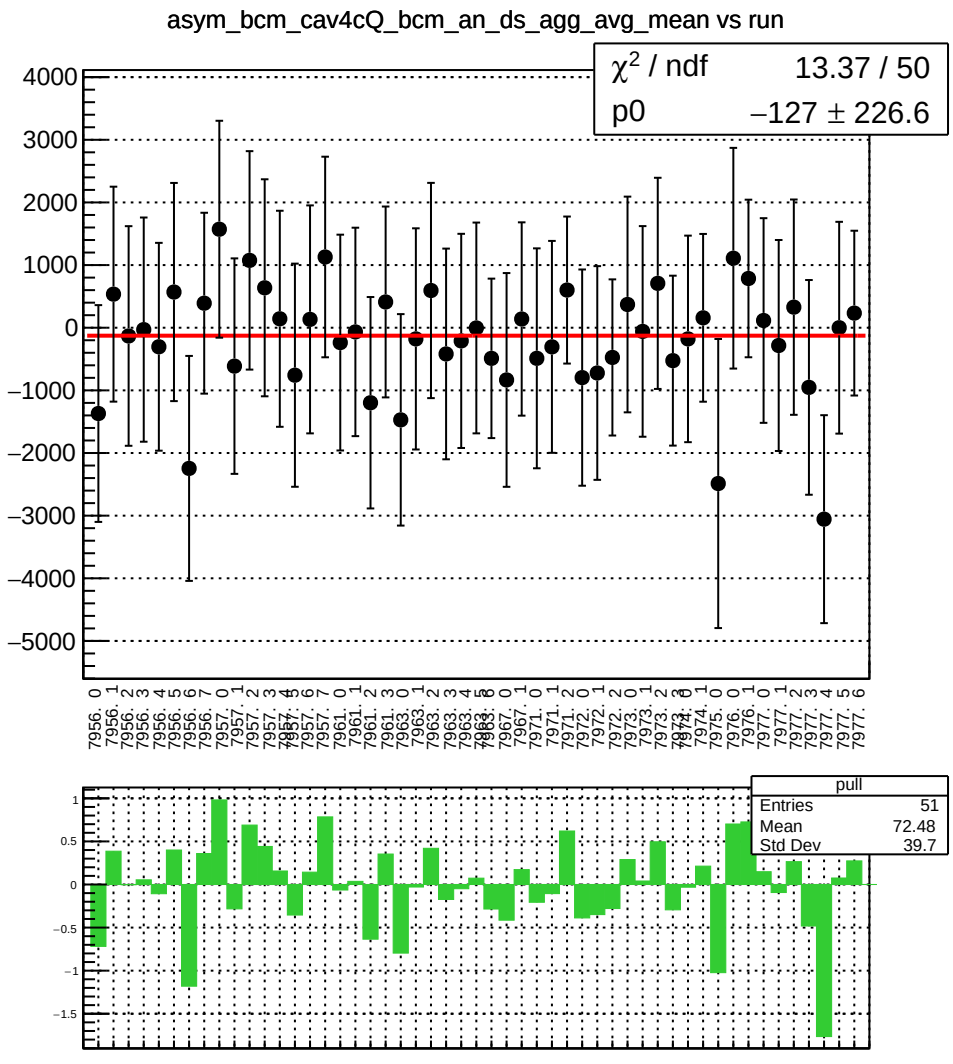
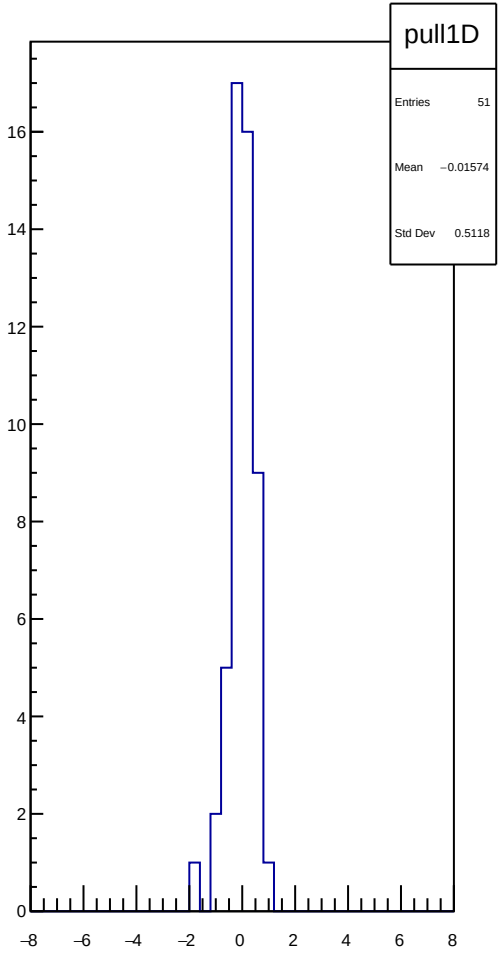
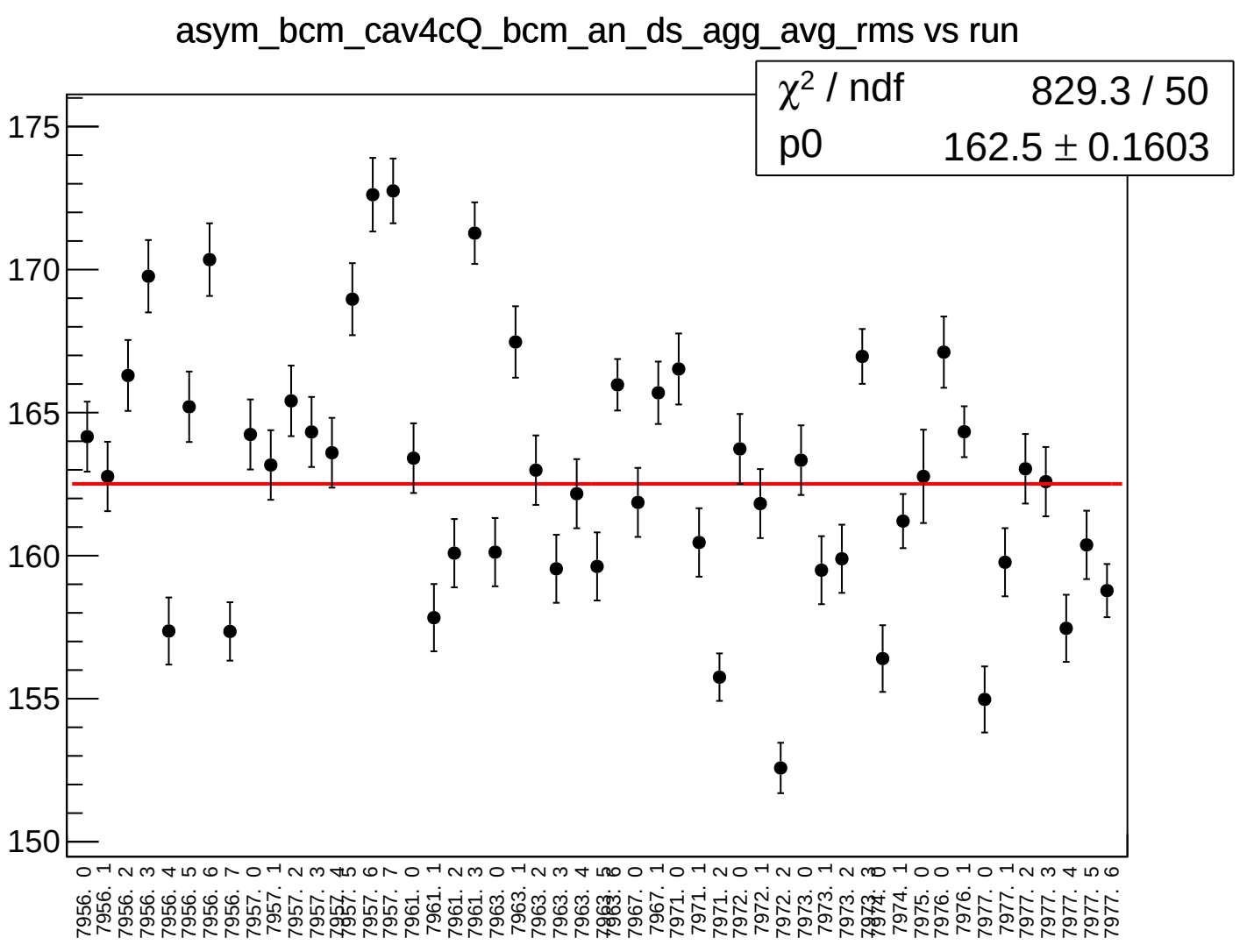
7977. 5
7977. 6


asym_bcm_cav4cQ_bcm_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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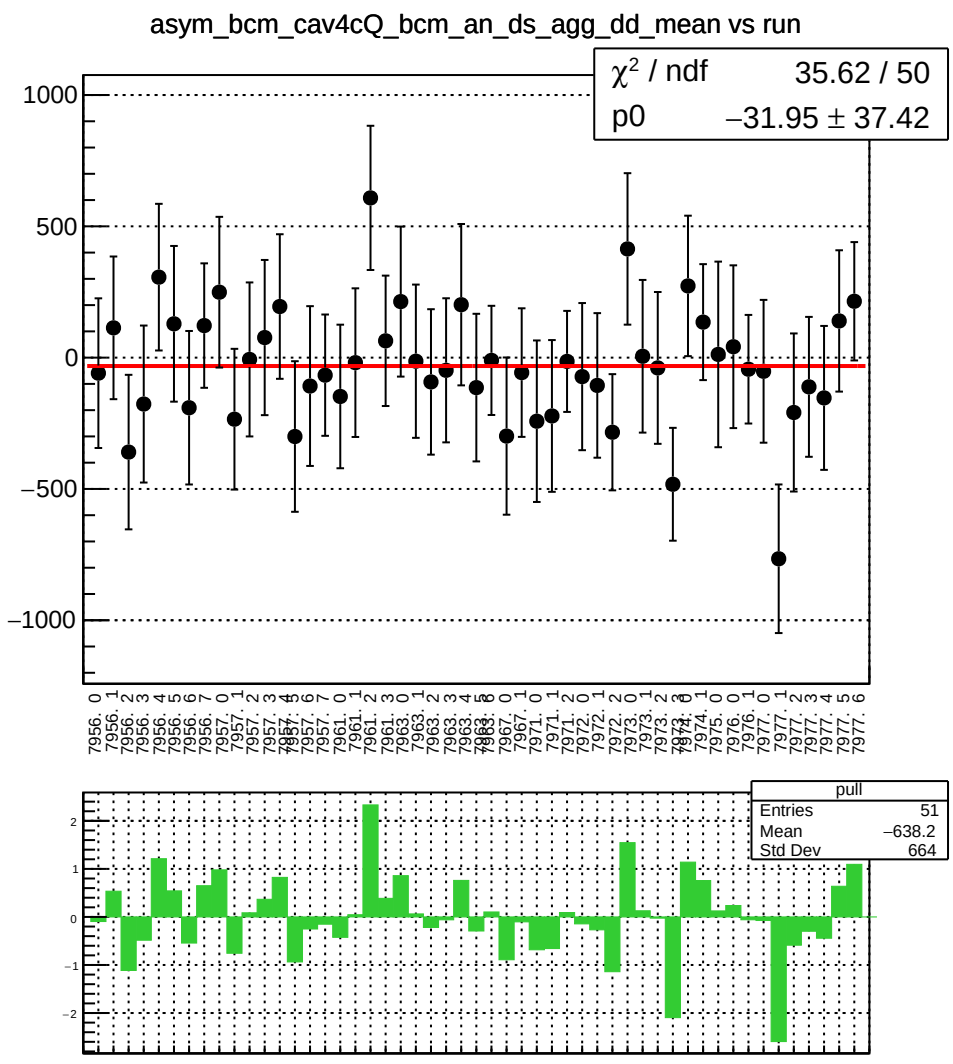
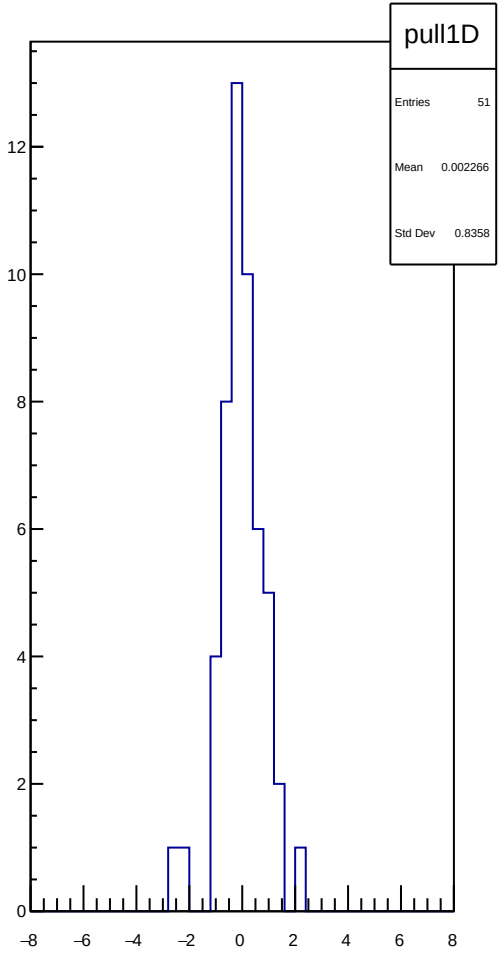
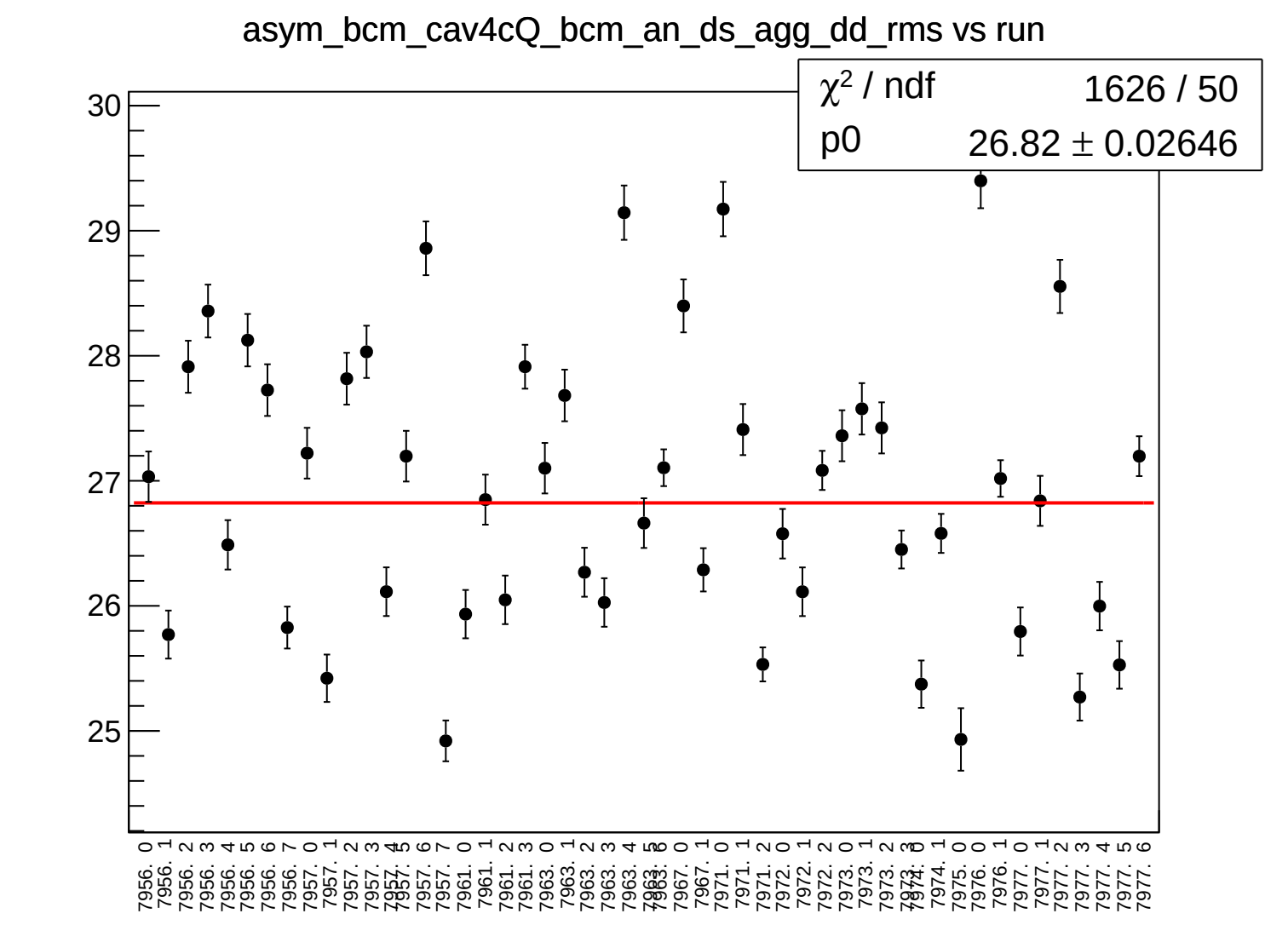
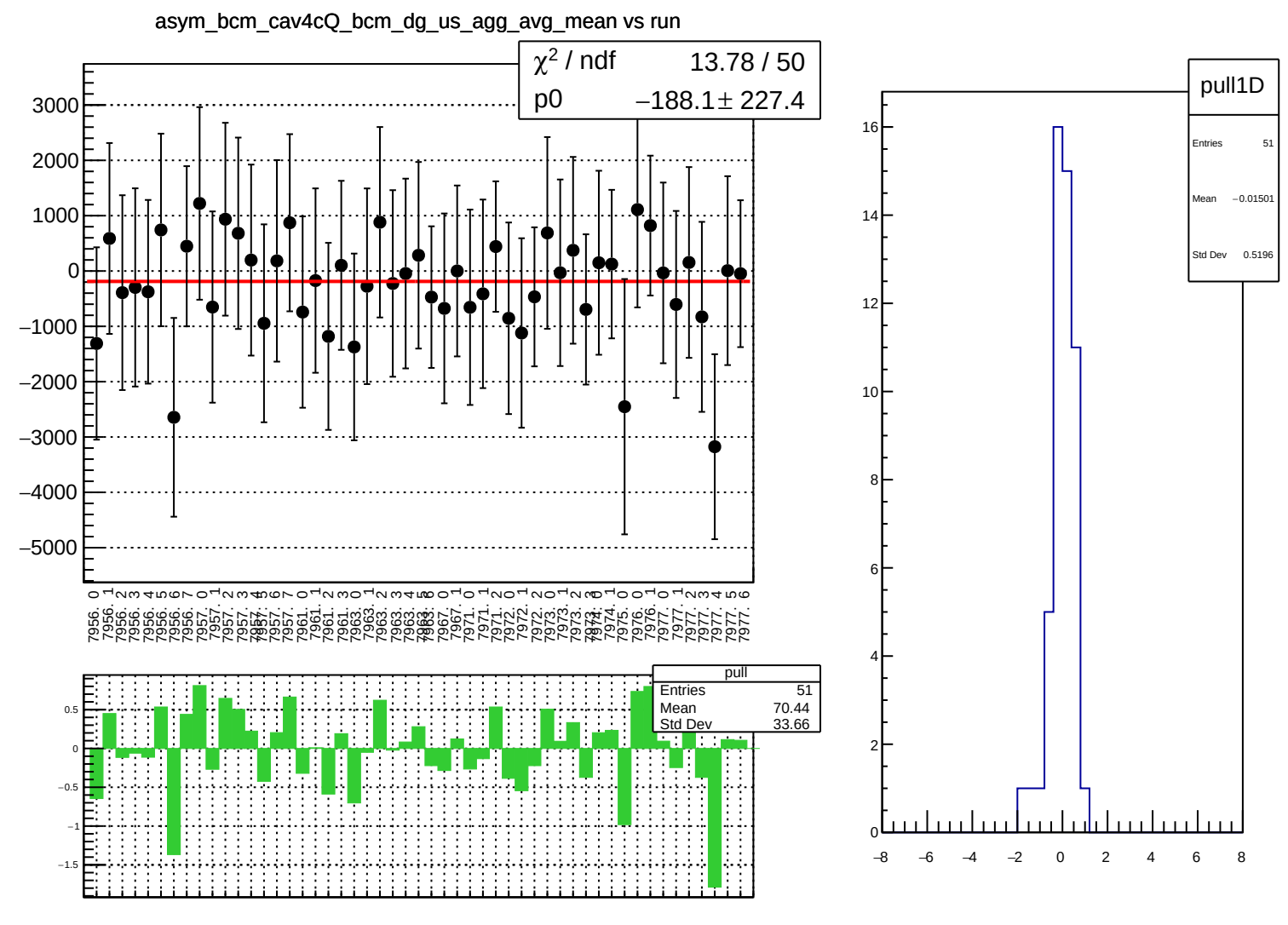
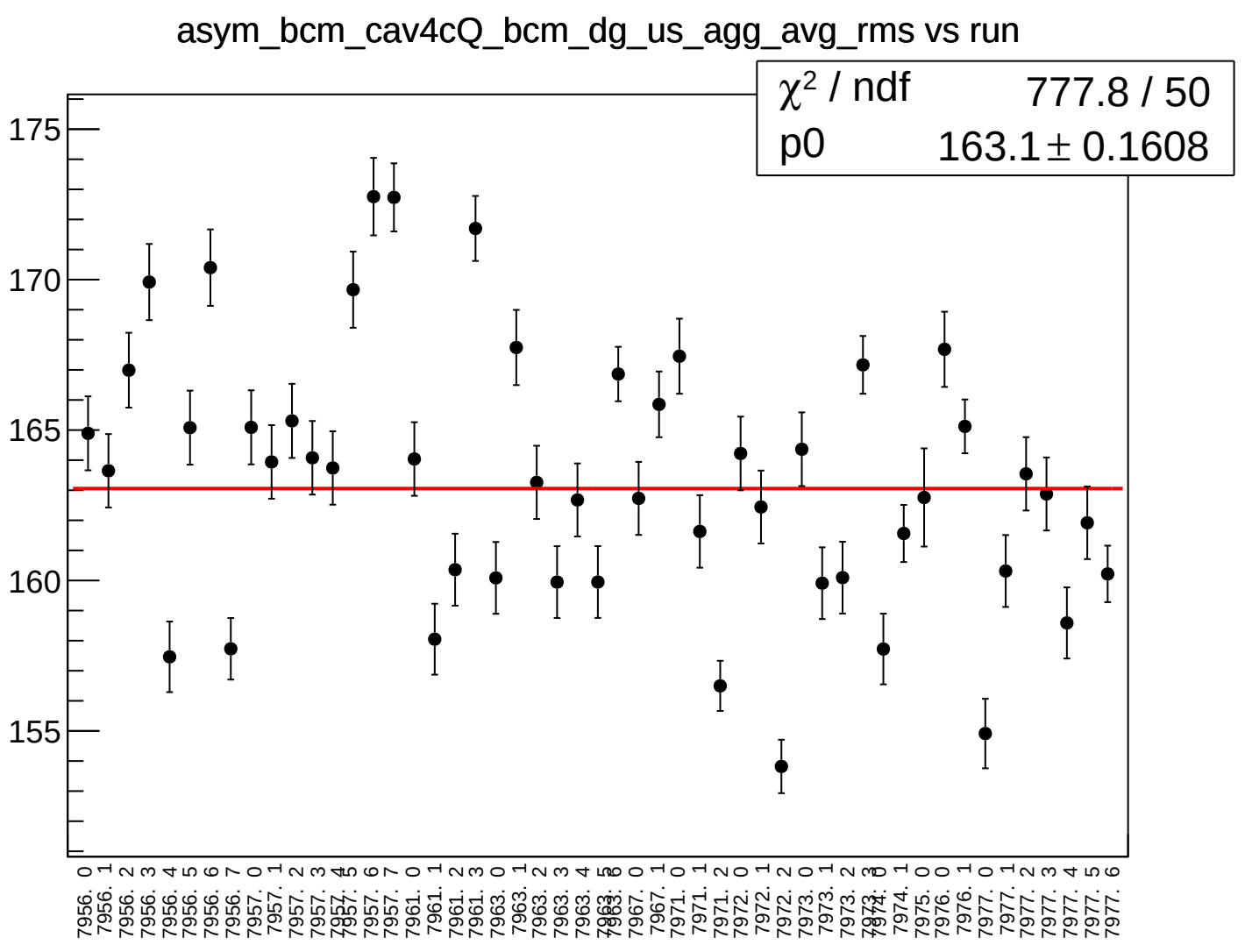
7977. 5
7977. 6


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
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_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
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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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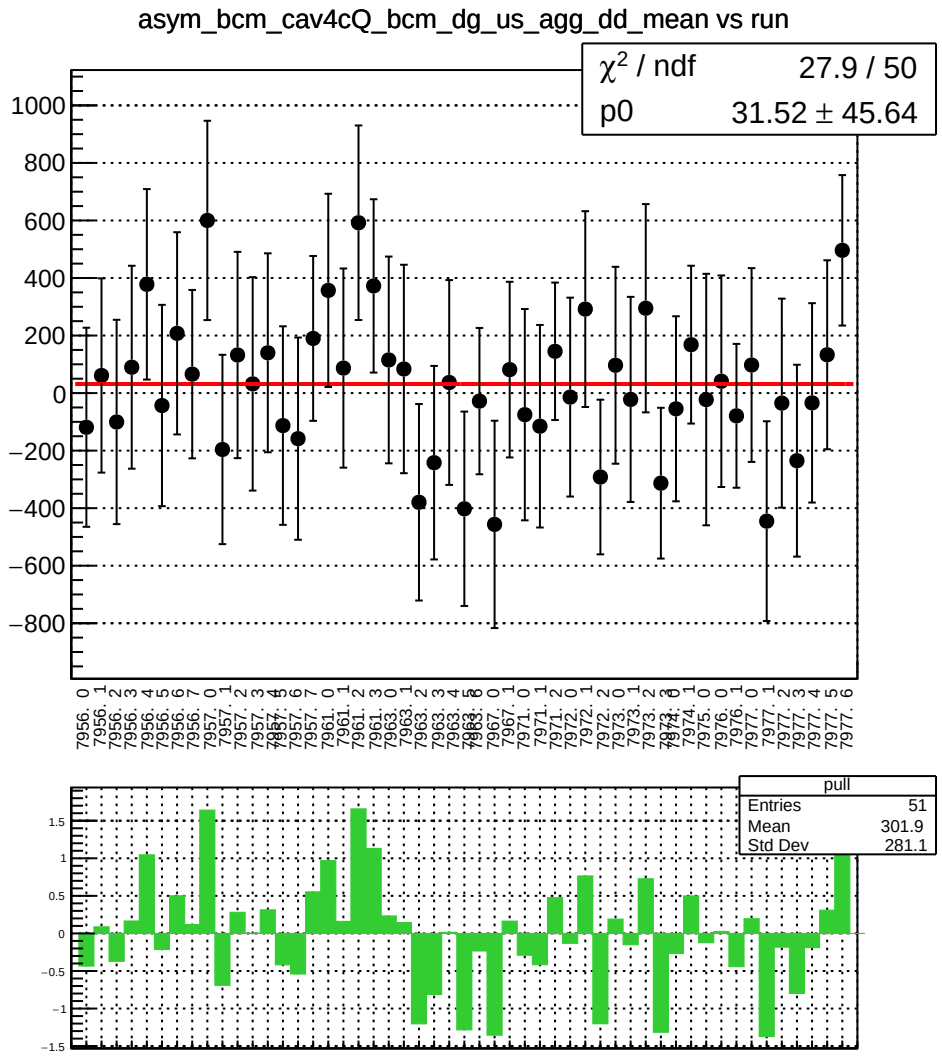
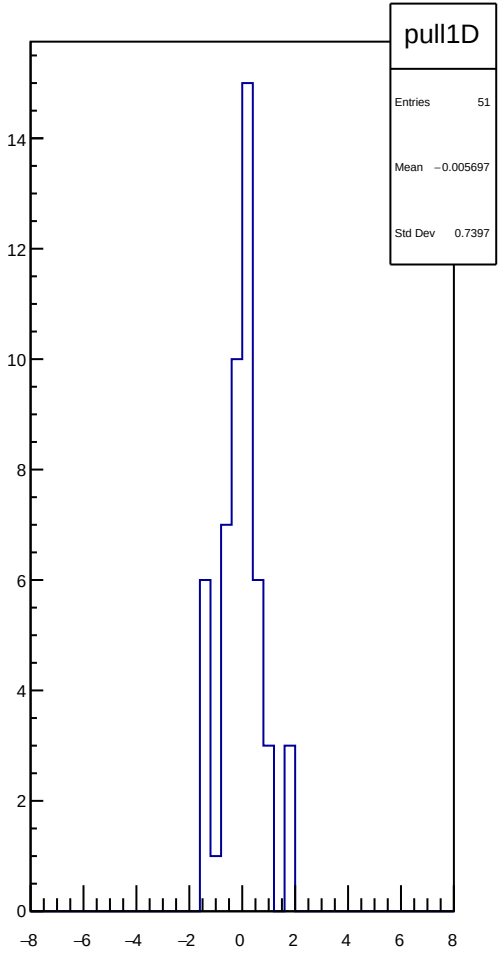
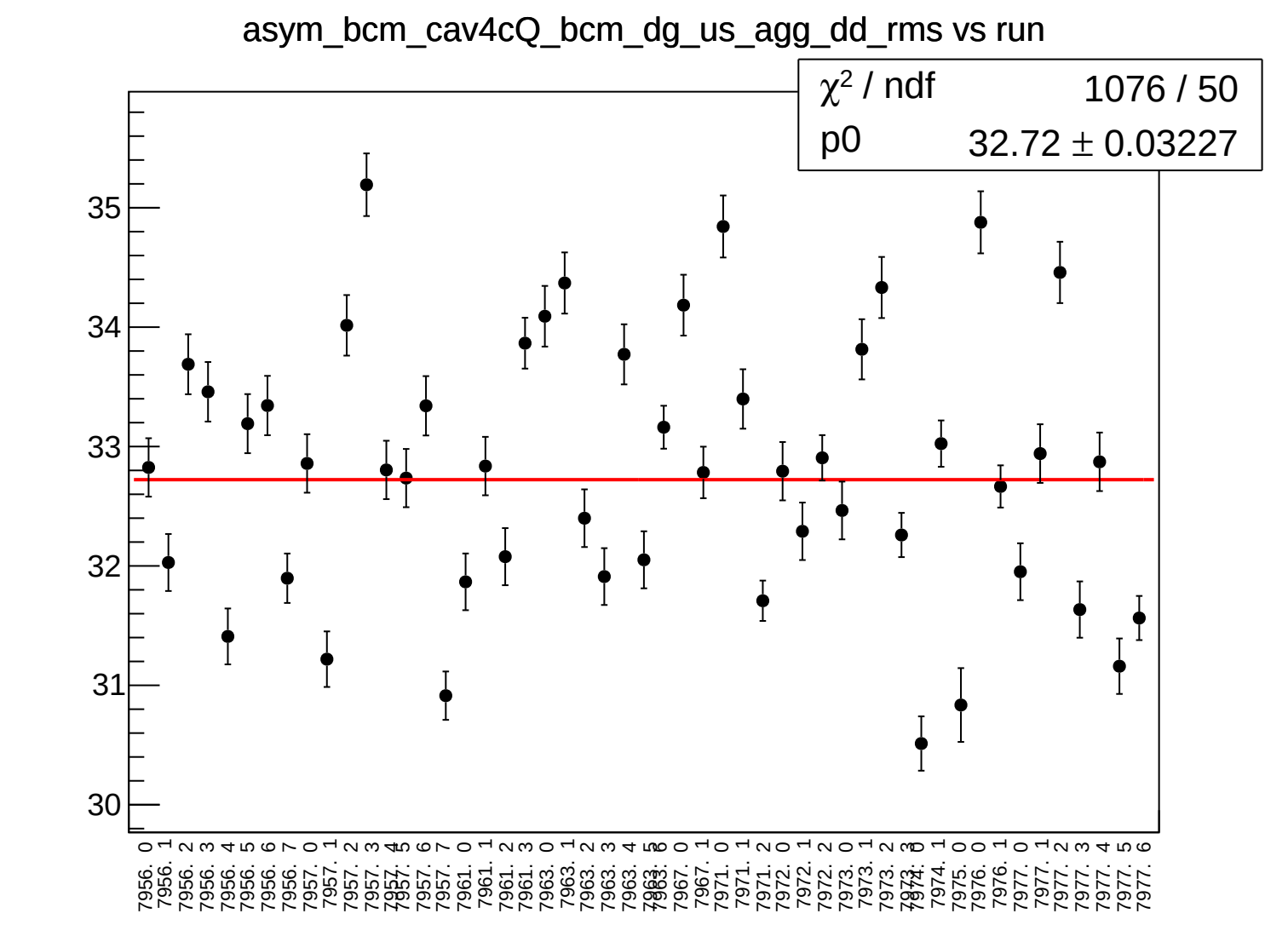
7977. 5
7977. 6


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
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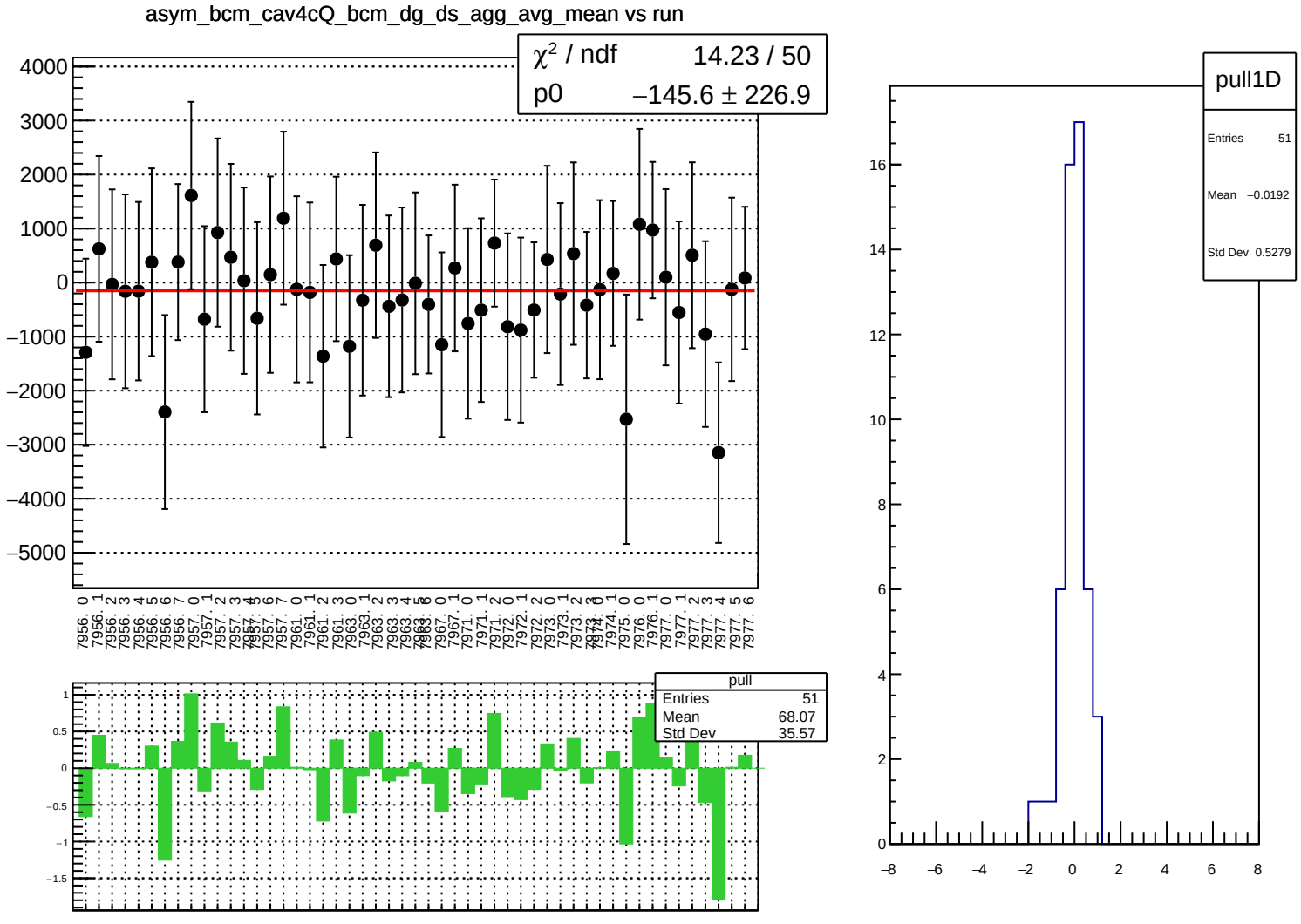
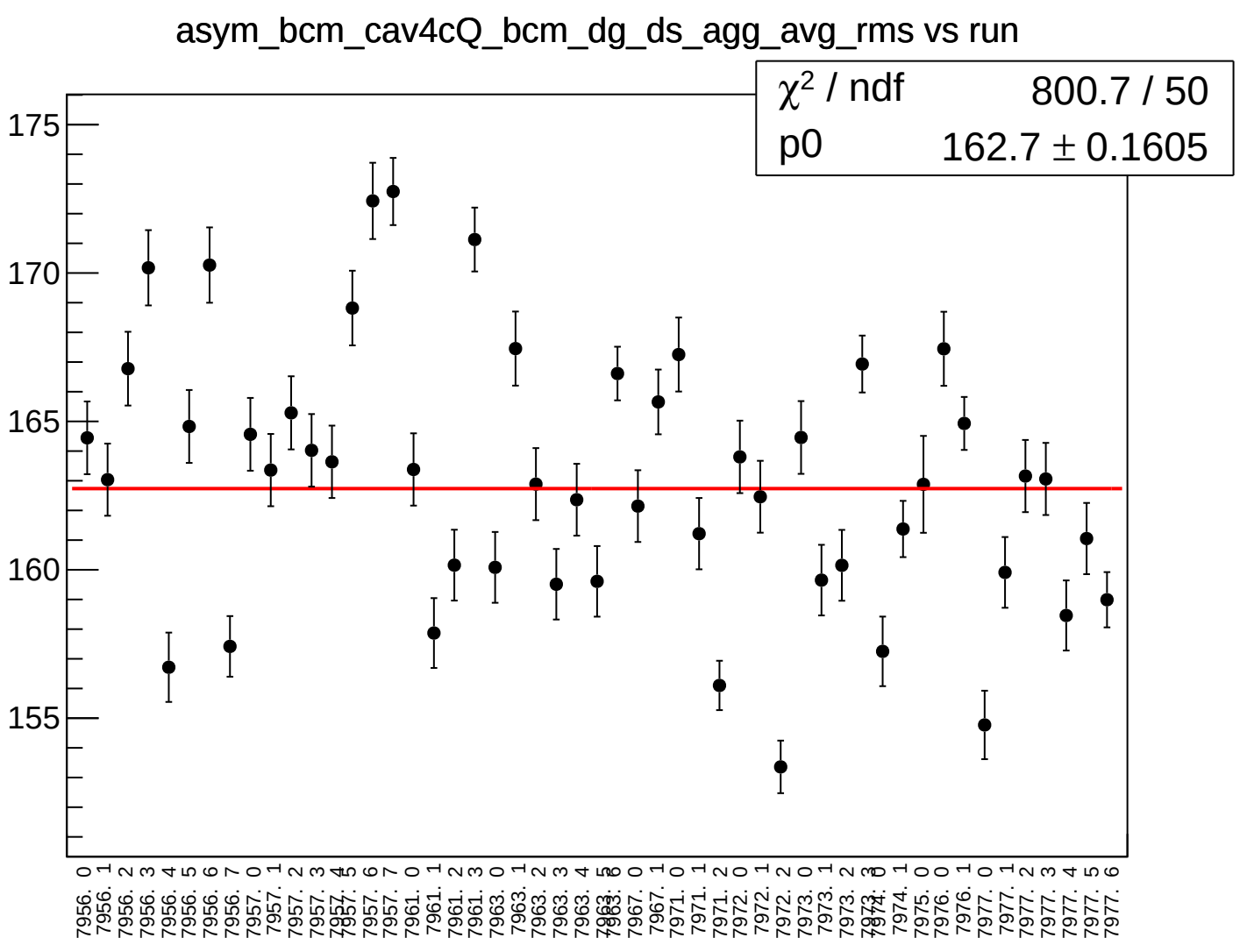
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


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
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7961. 2
7961. 3
7963. 0
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7963. 4
7967. 0
7967. 1
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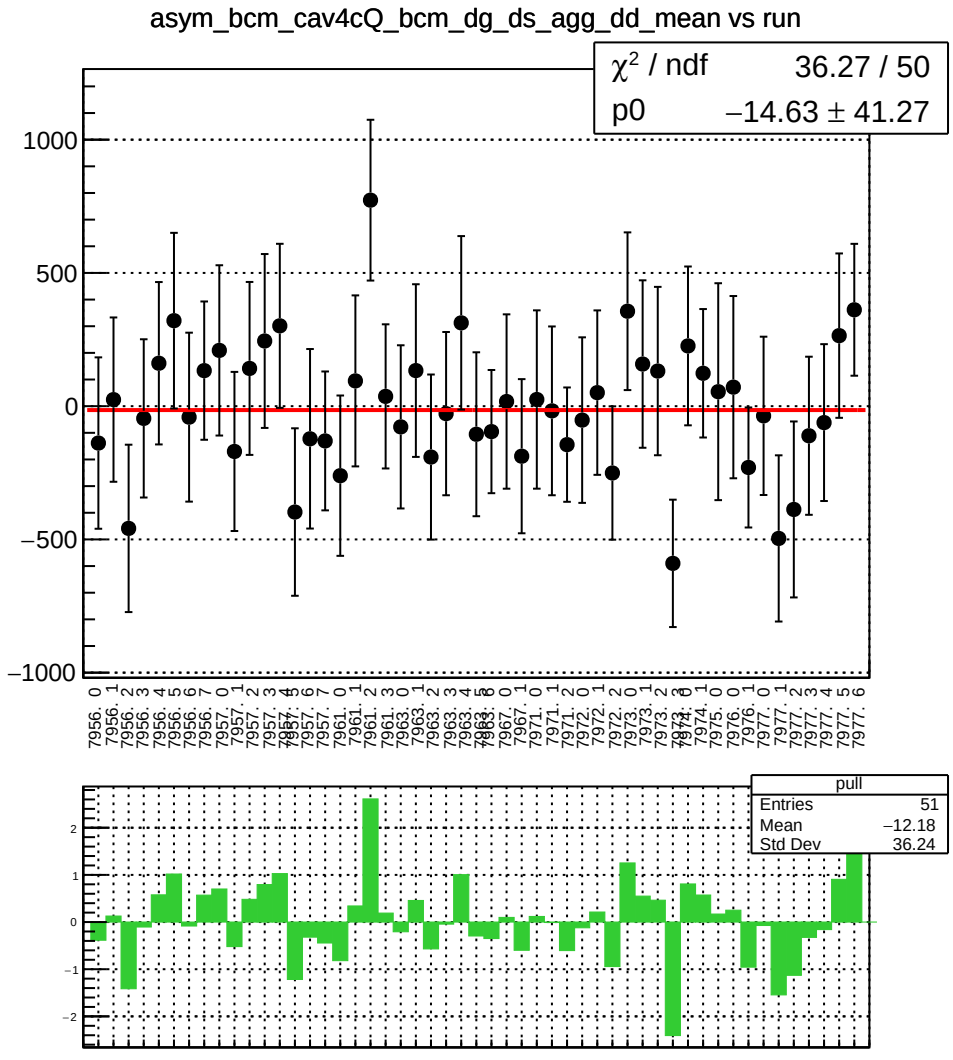
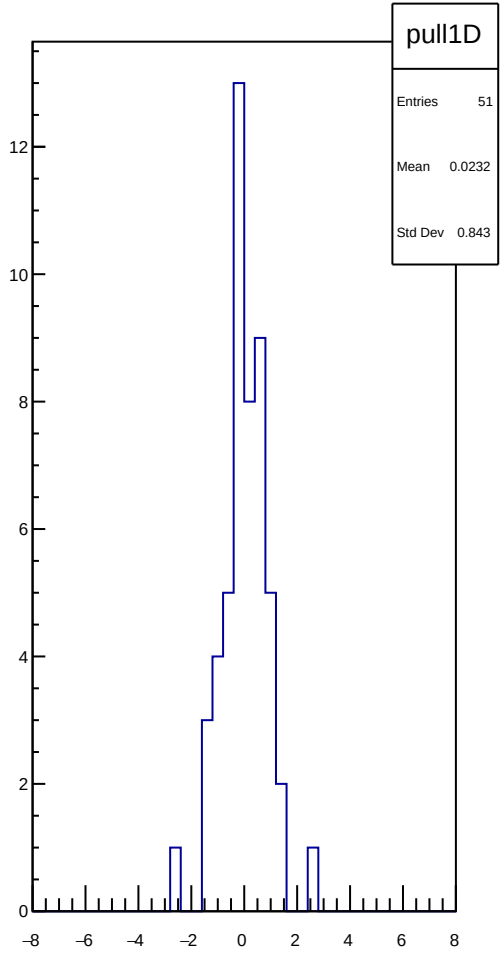
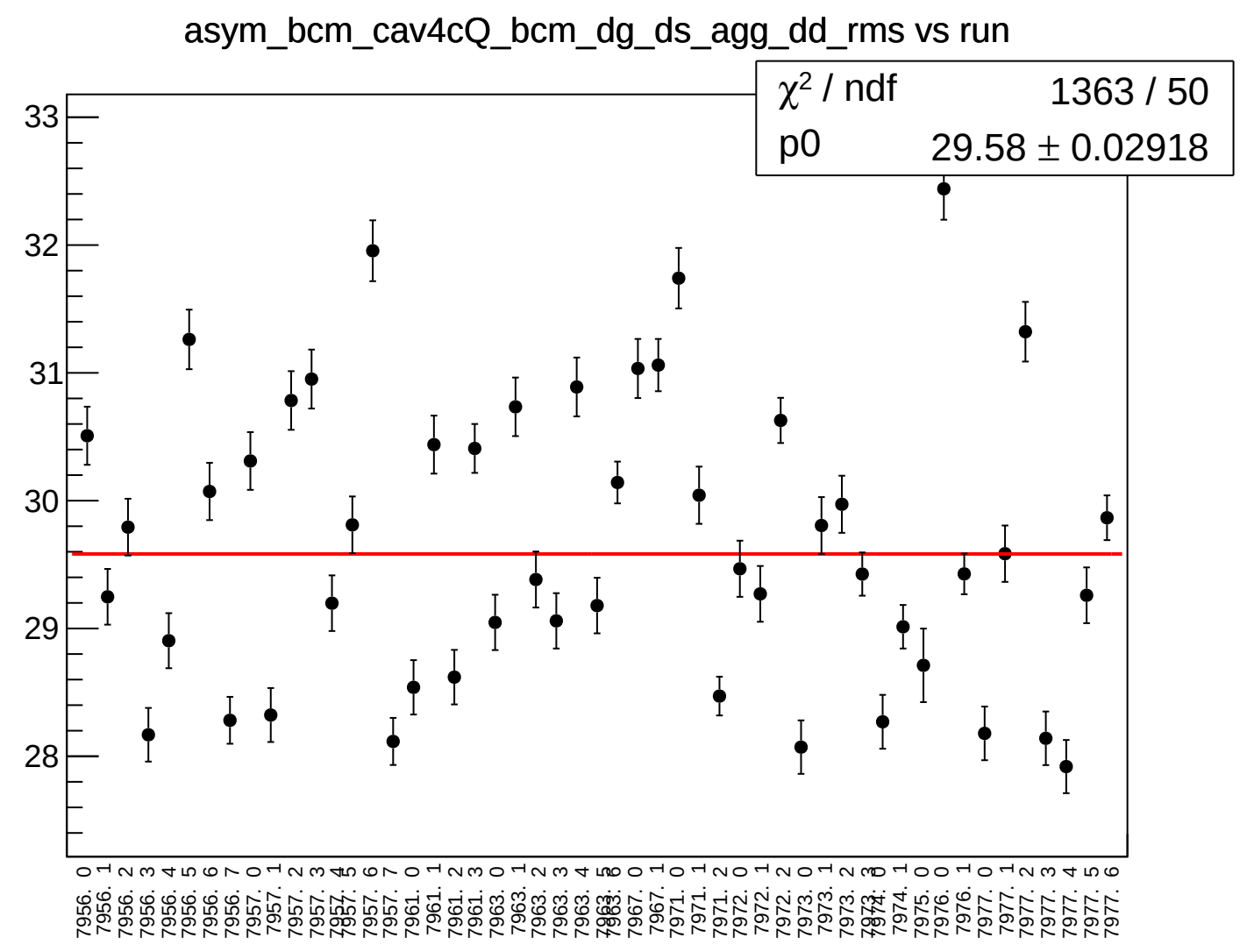
7977. 5
7977. 6


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
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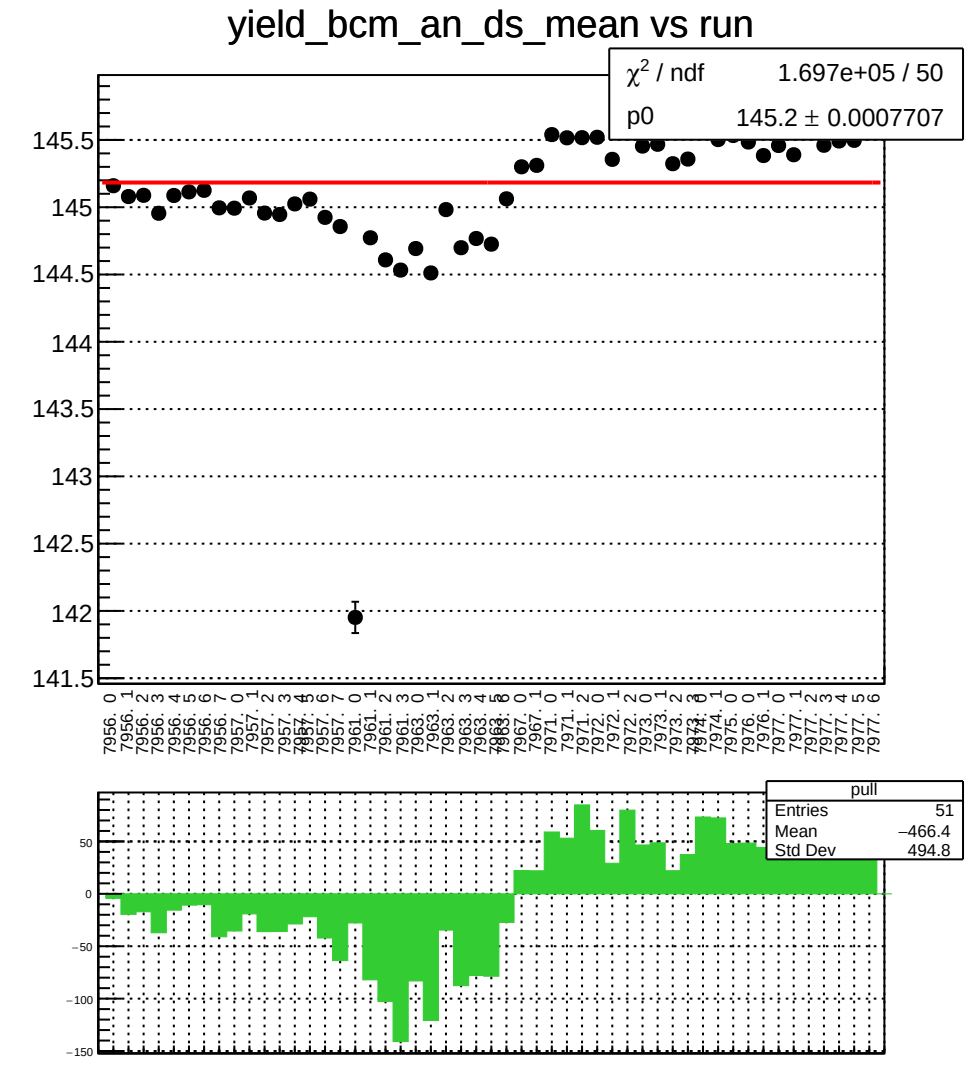
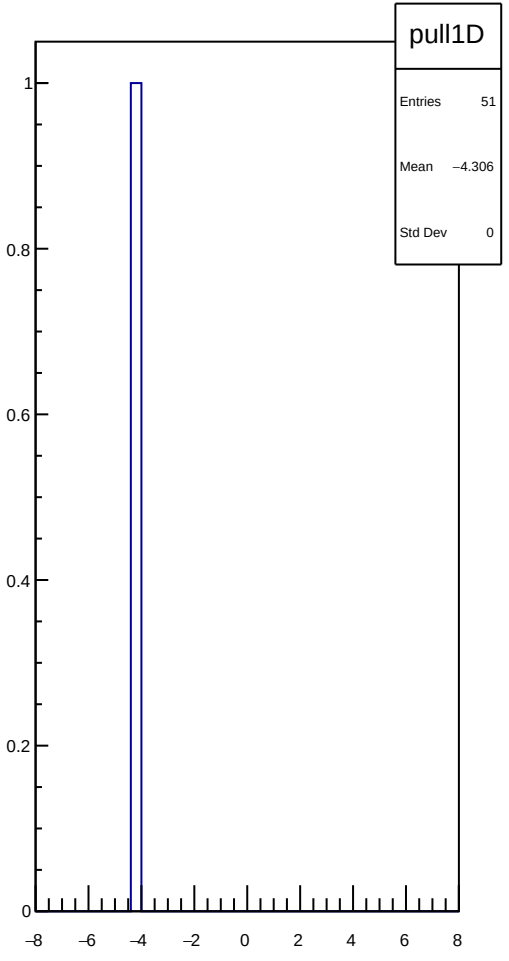
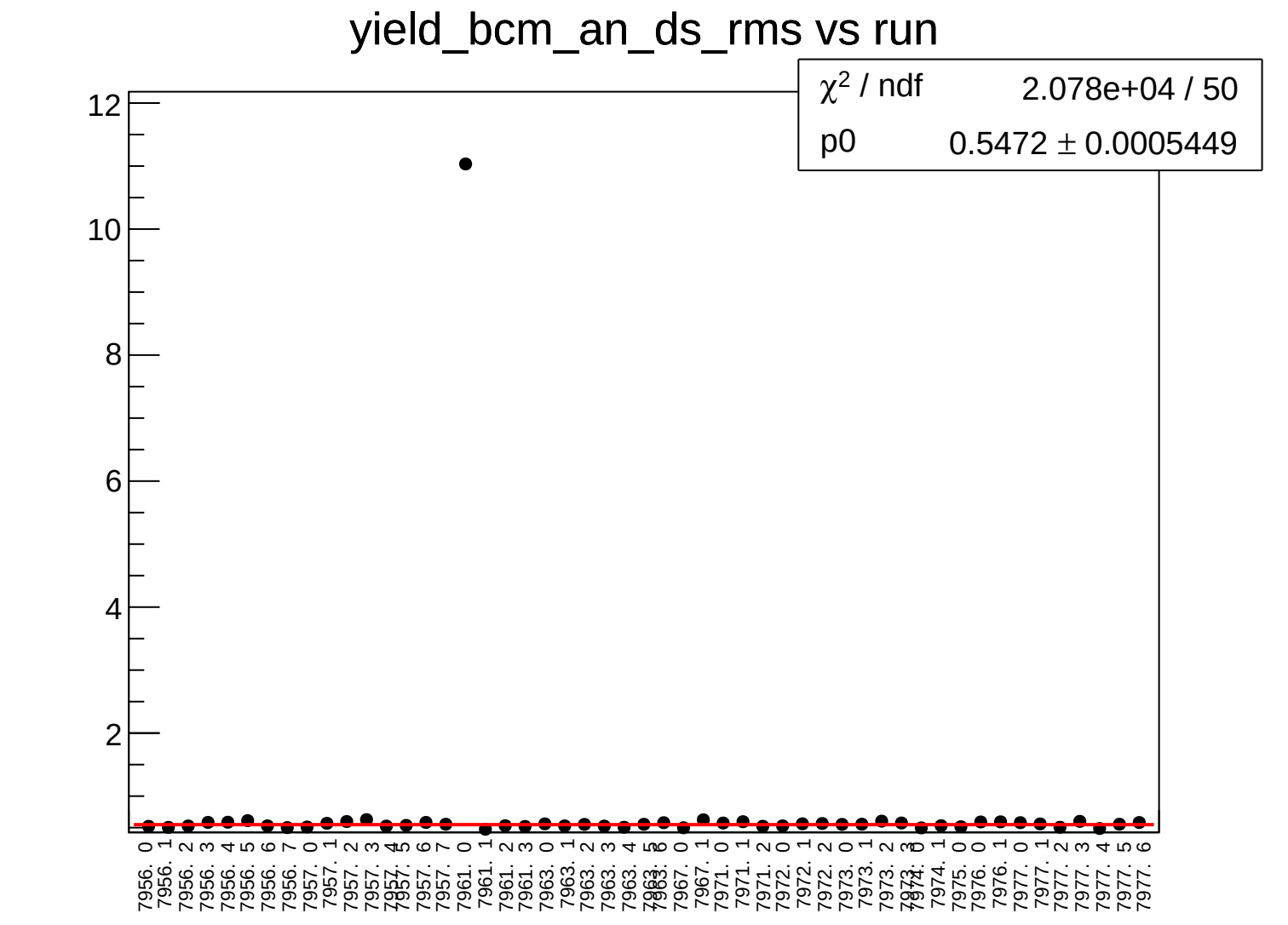
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


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
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7976. 1
7977. 0
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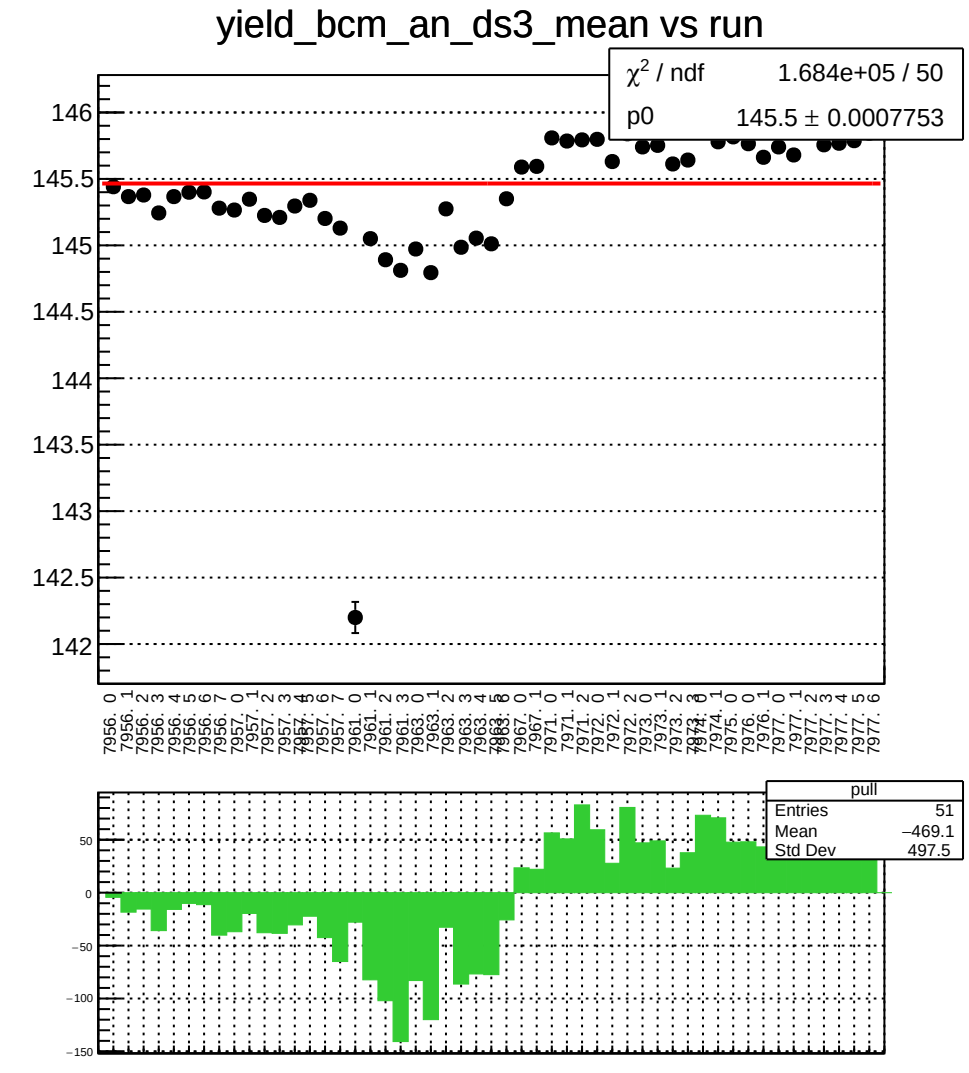
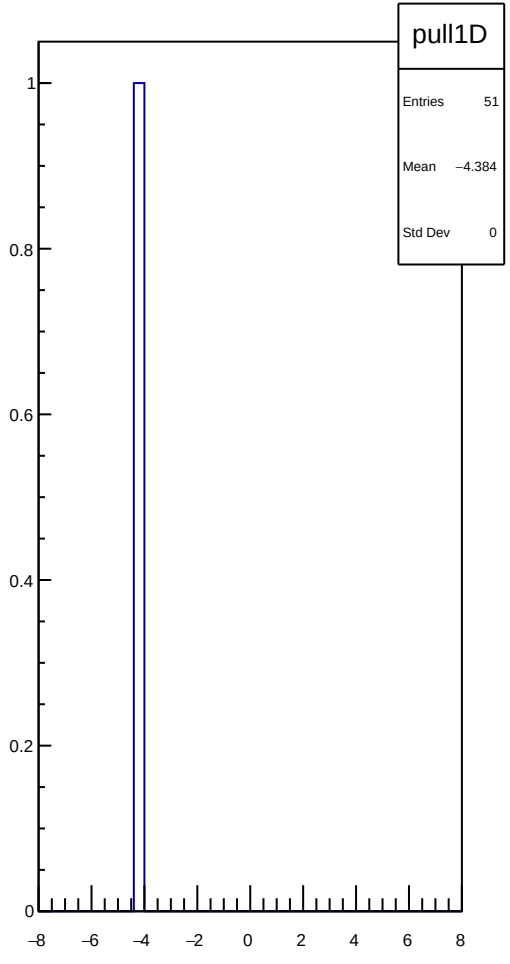
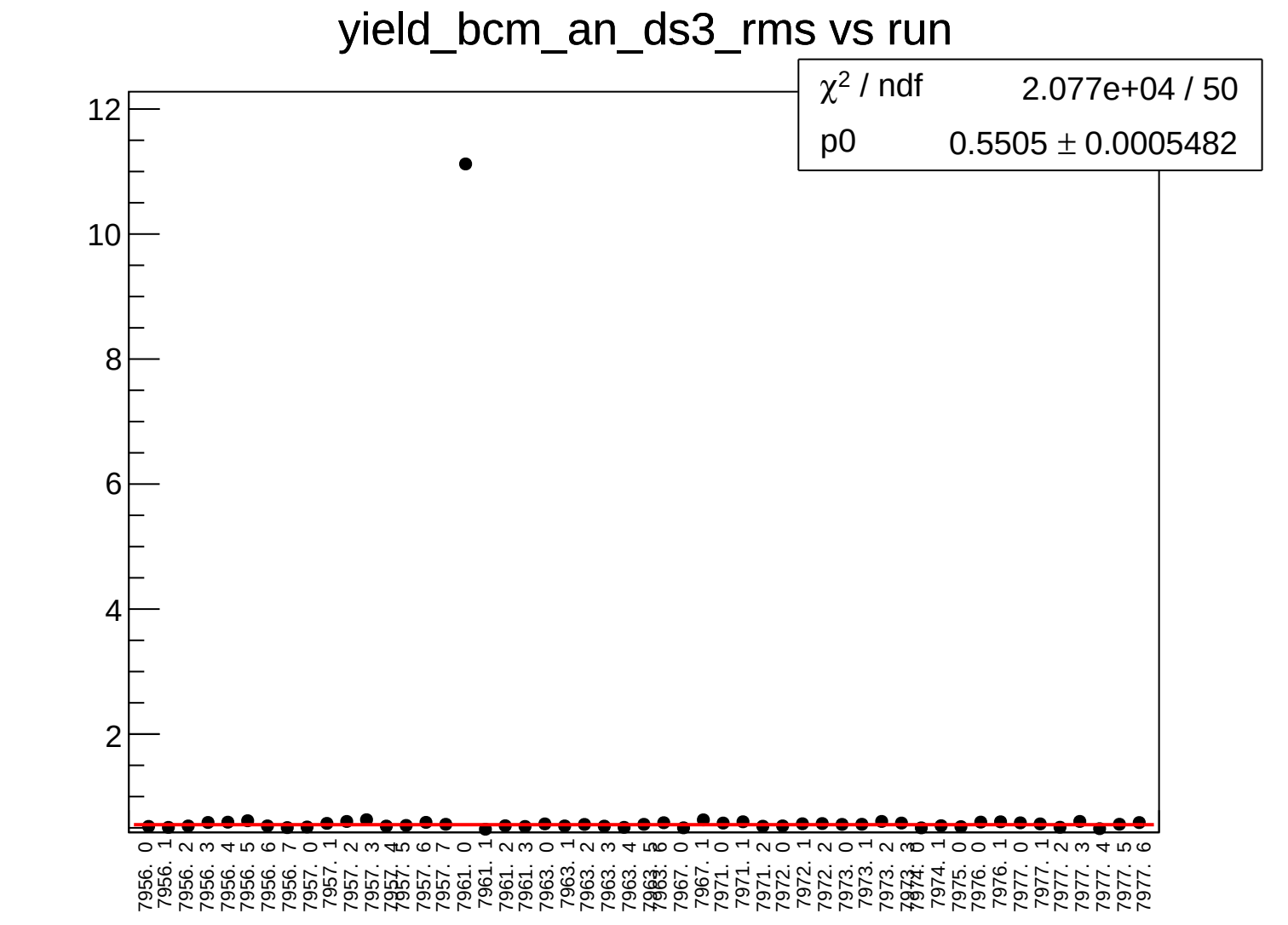
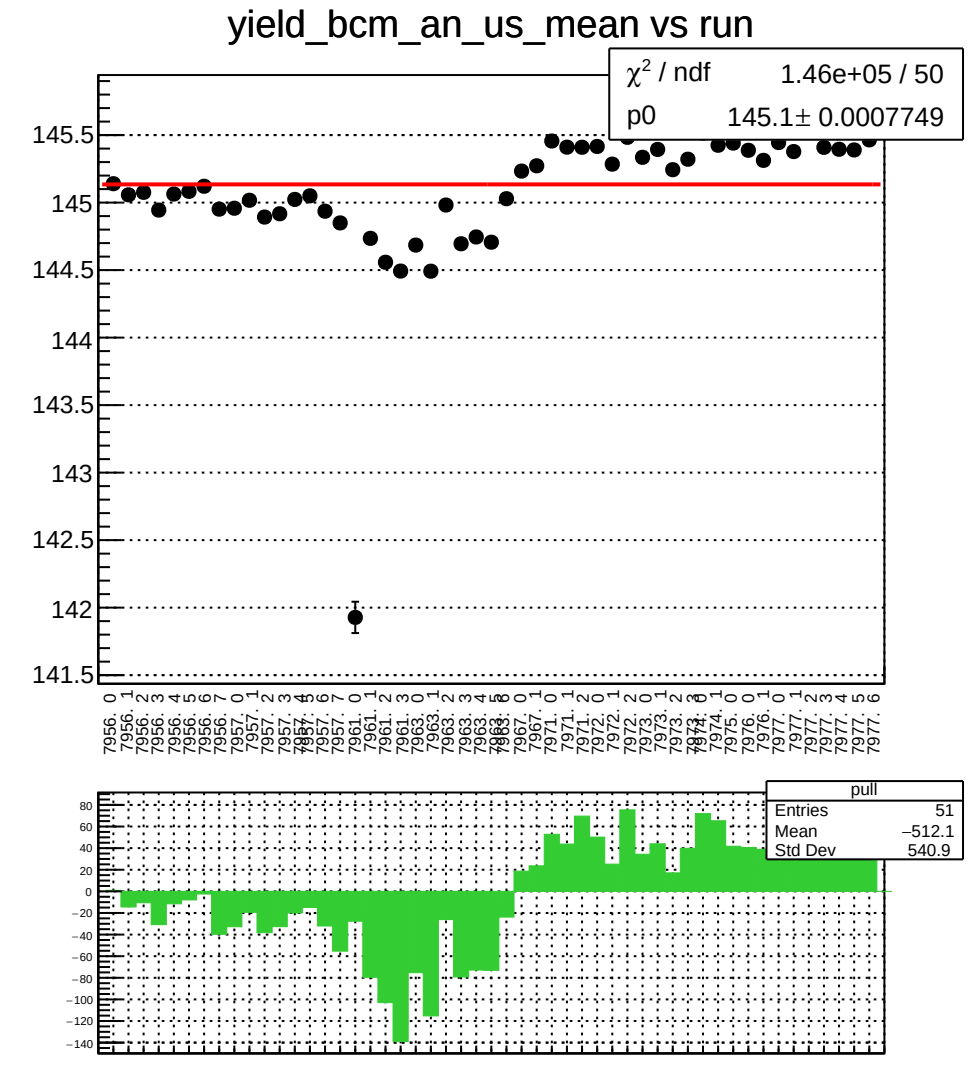
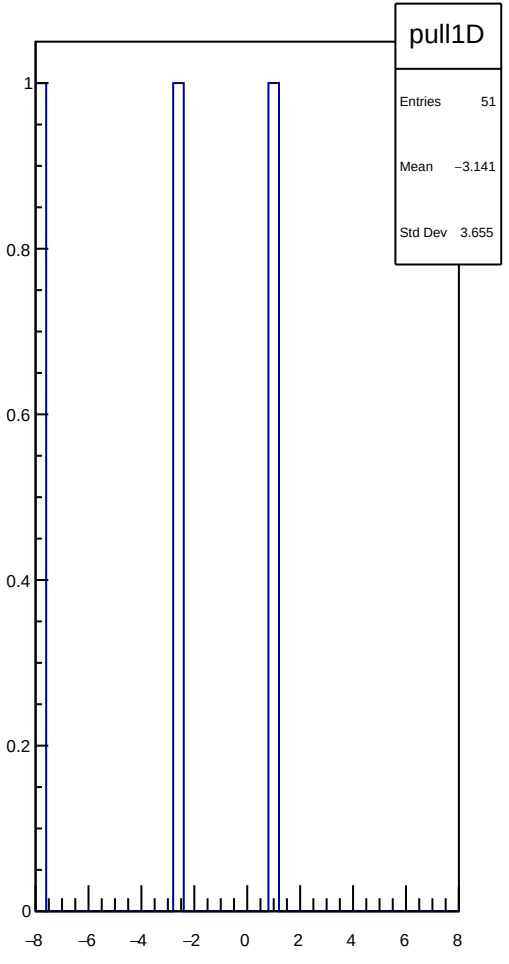
7977. 5
7977. 6

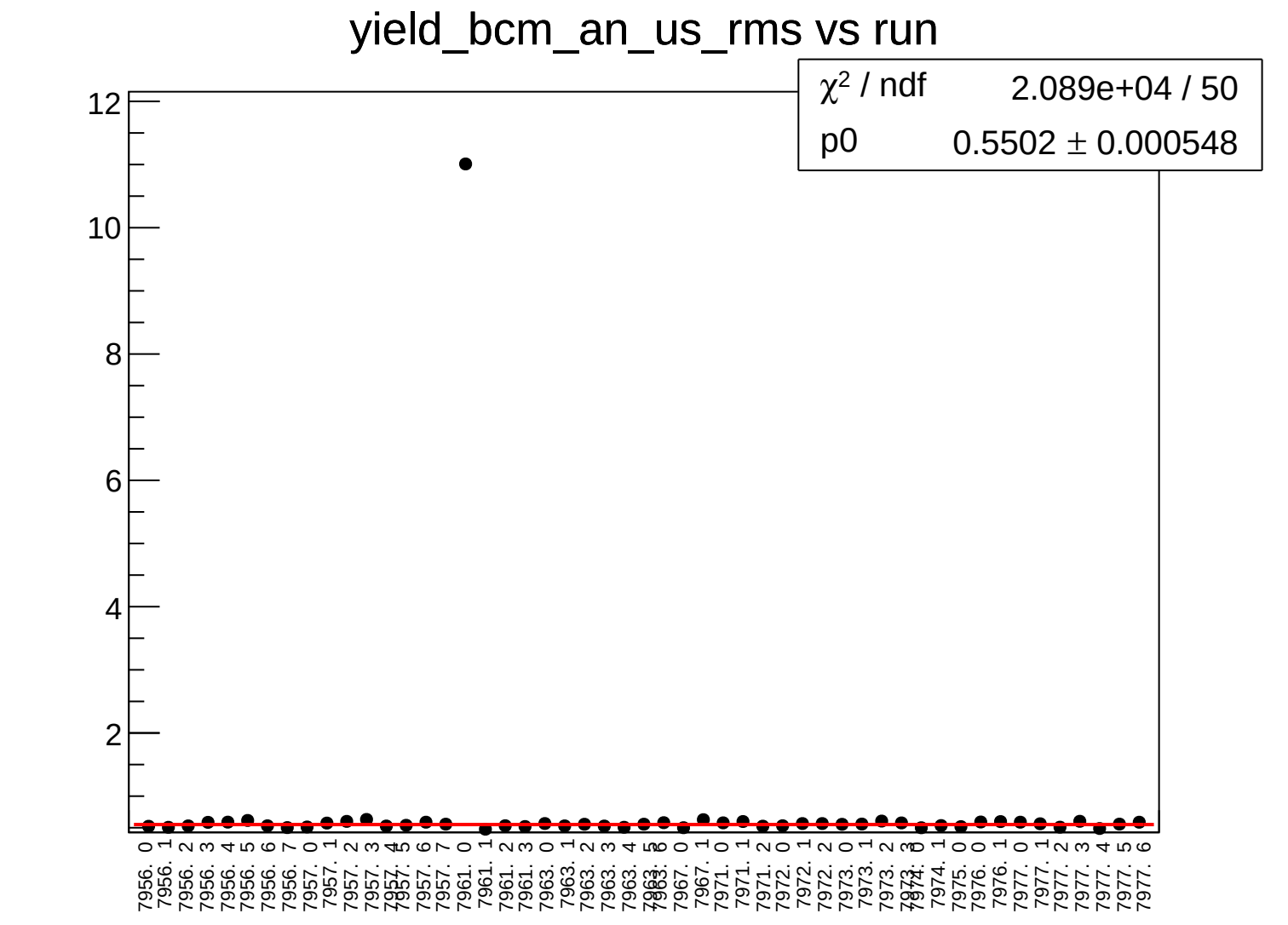

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.684e+05 / 50
p0 145.5 ± 0.0007753
pull
Entries 51
Mean −469.1
Std Dev 497.5


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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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
7975. 0
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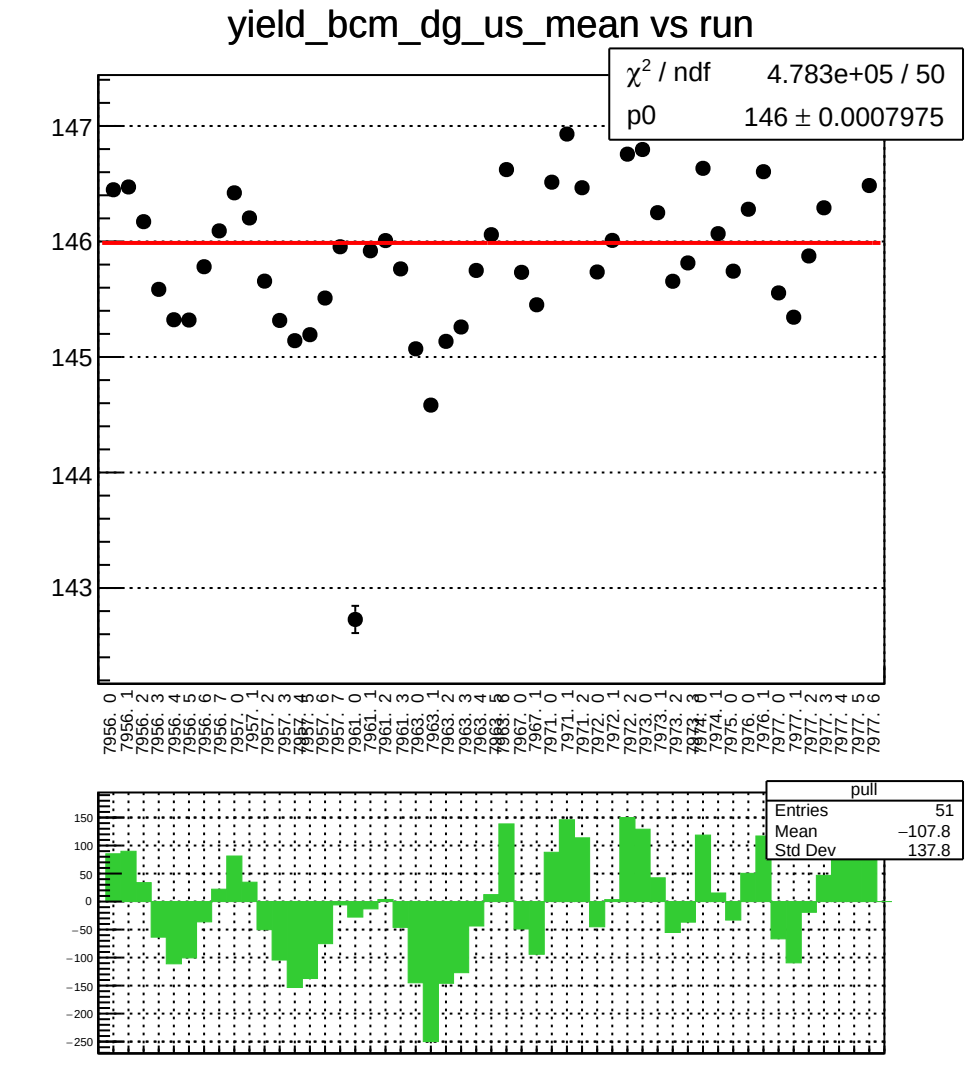
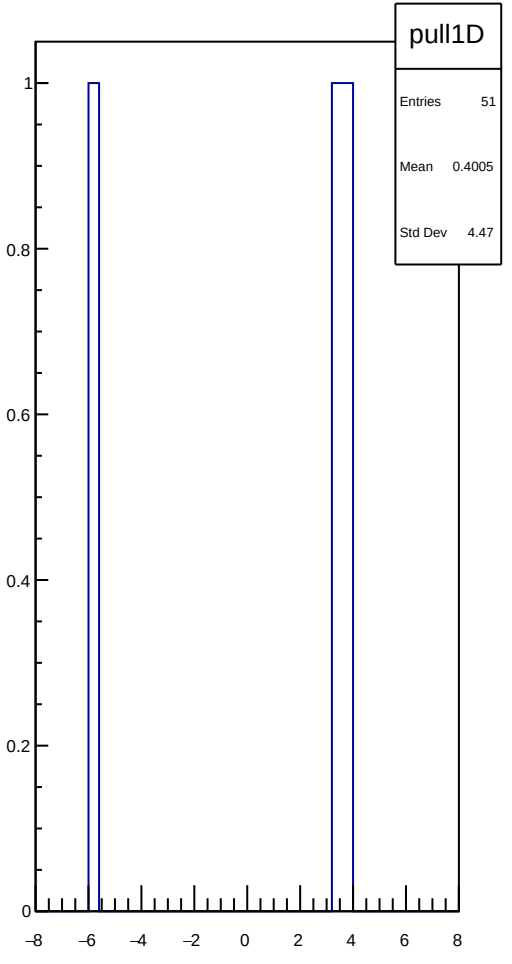
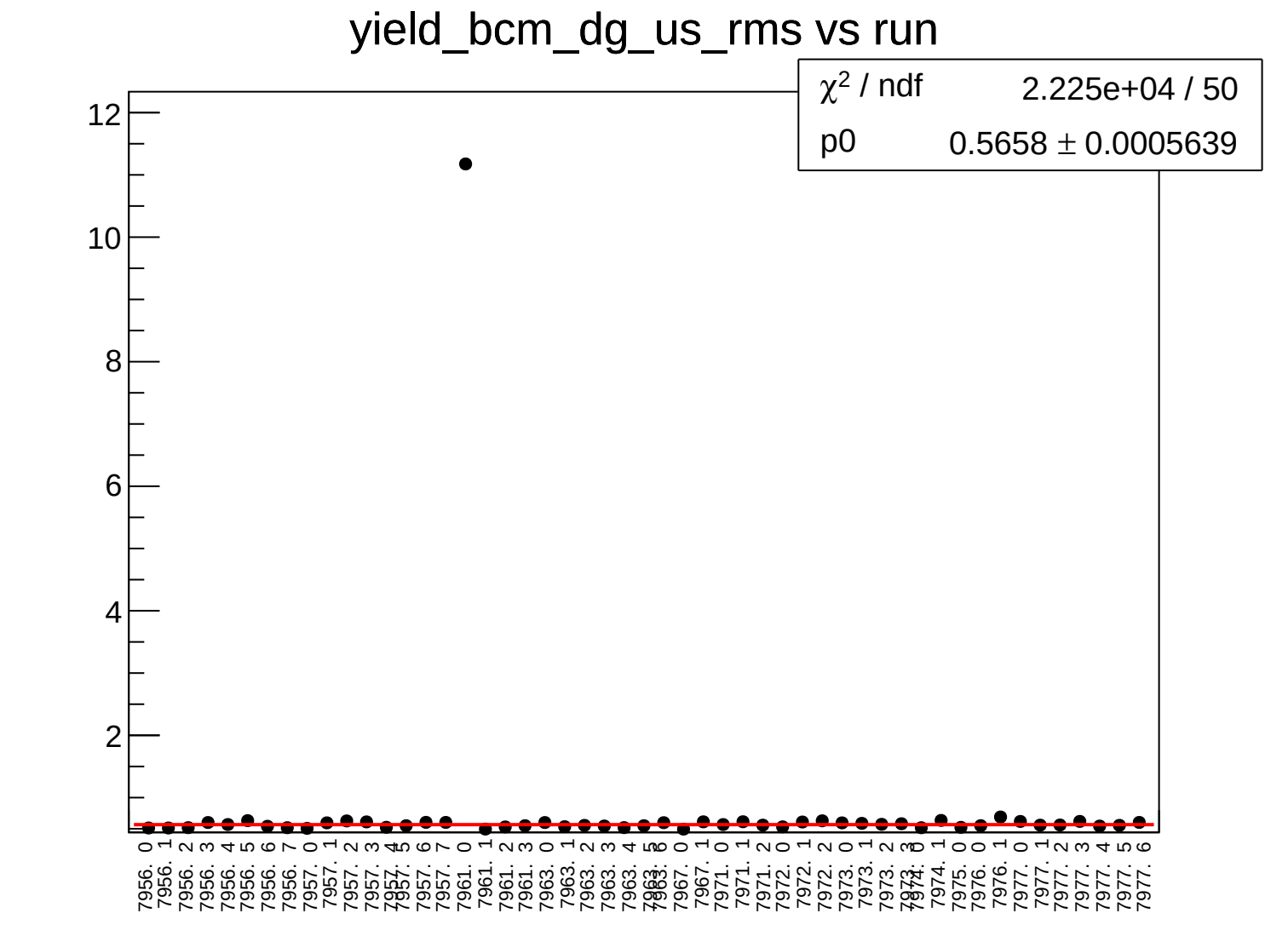
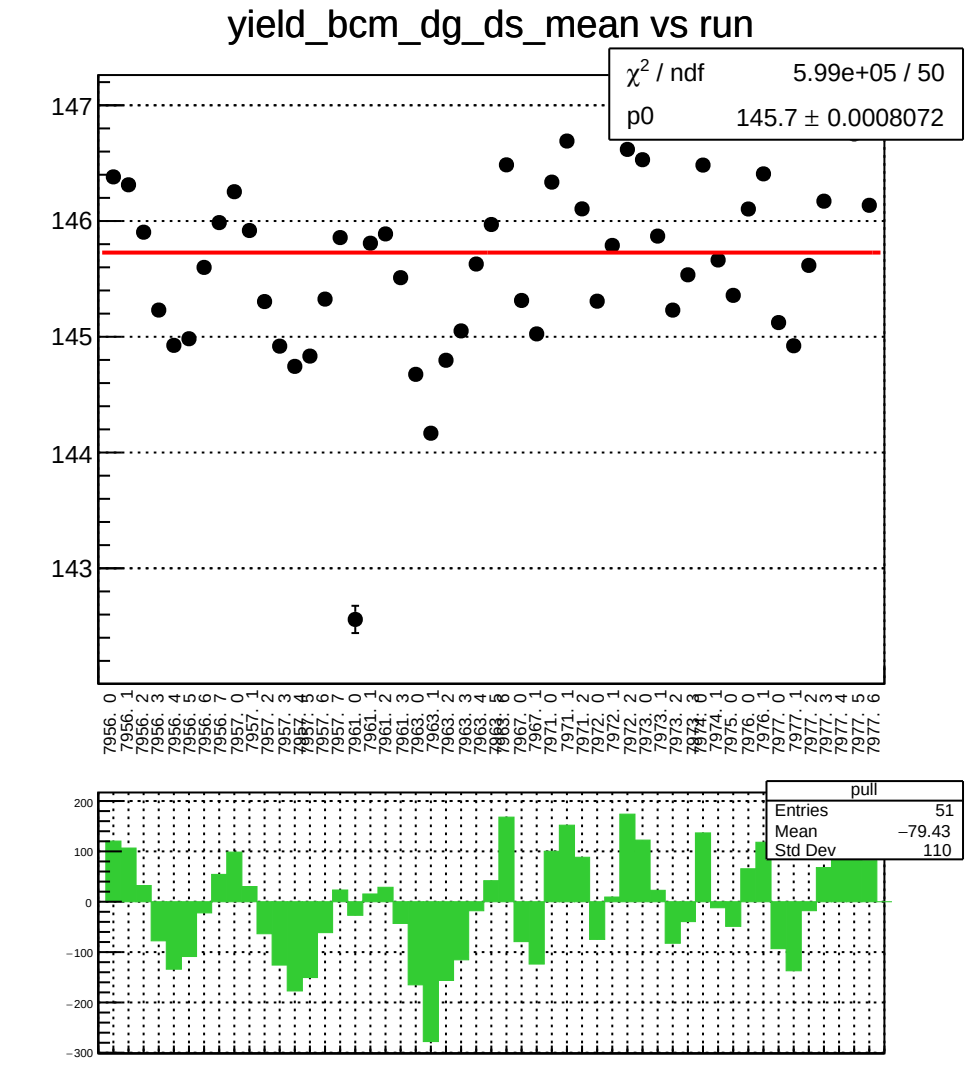
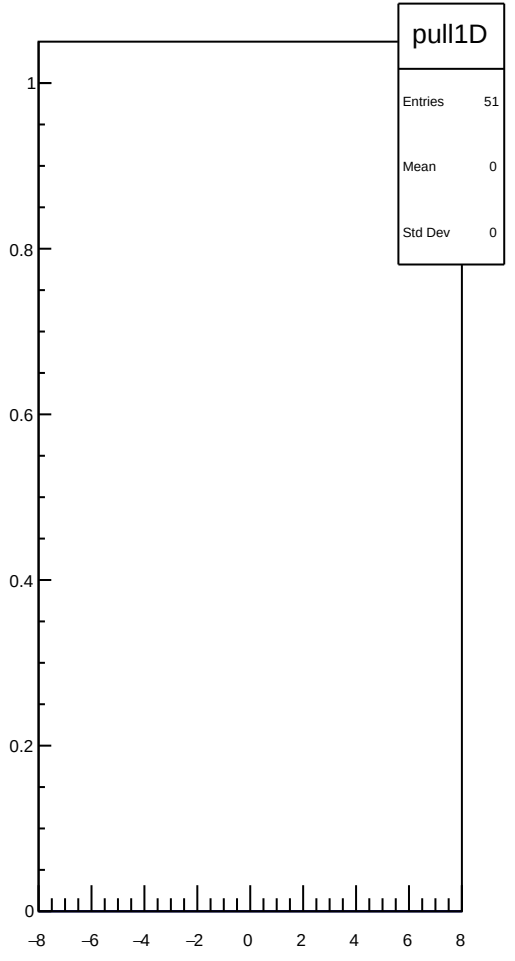
7977. 5
7977. 6

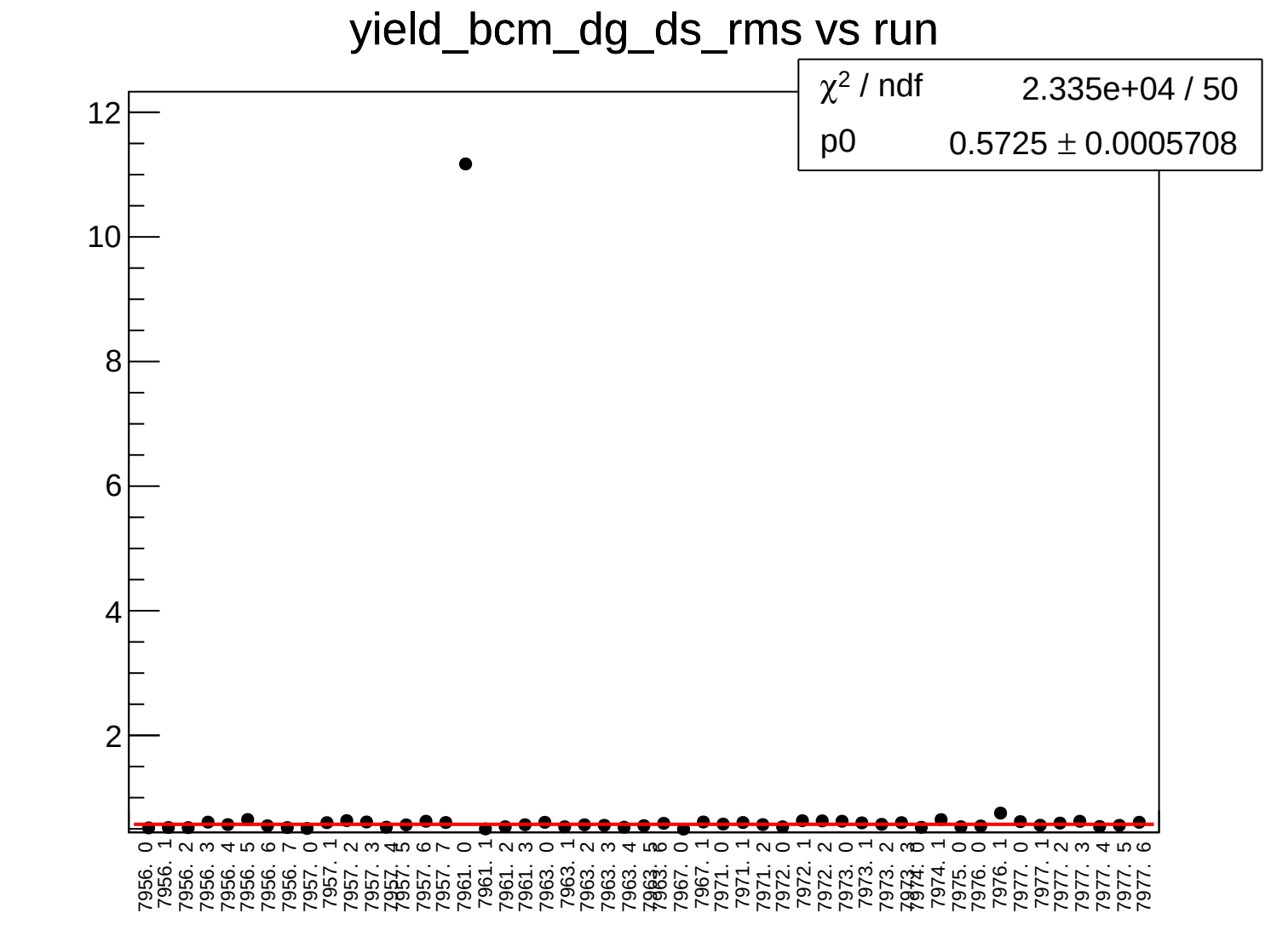

yield_bcm_dg_us_mean vs run
χ² / ndf 4.783e+05 / 50
p0 146 ± 0.0007975
147
146
145
144
143
pull
Entries 51
Mean −107.8
Std Dev 137.8
150
100
50
0
−50
−100
−150
−200
−250


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
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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
7975. 0
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7976. 1
7977. 0
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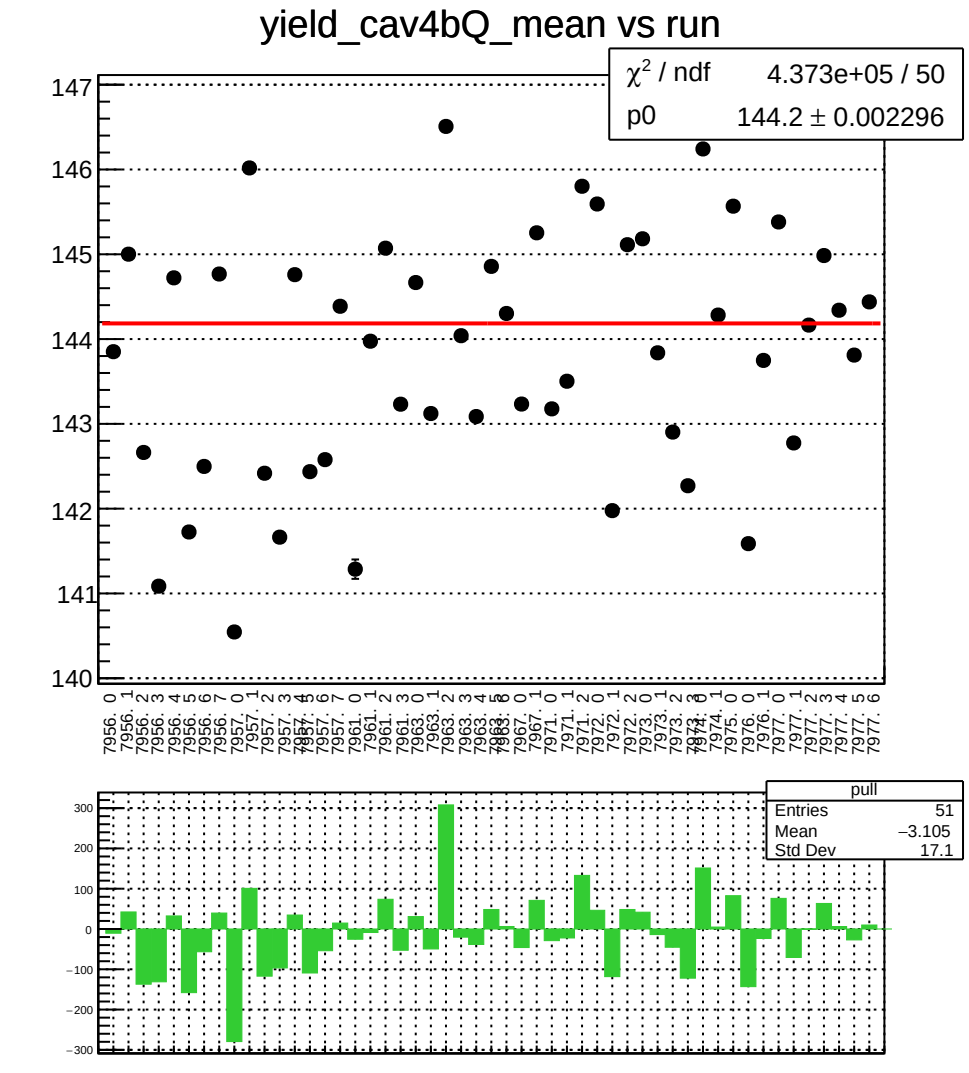
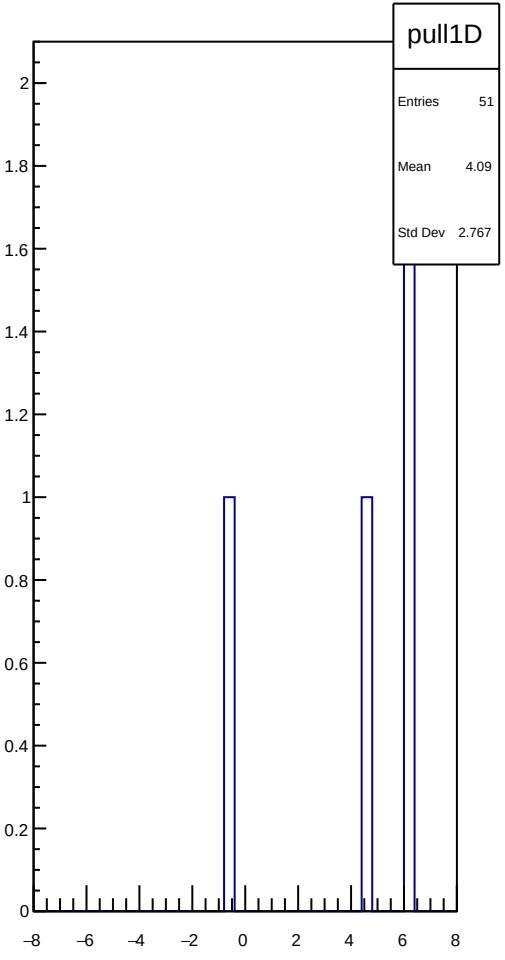
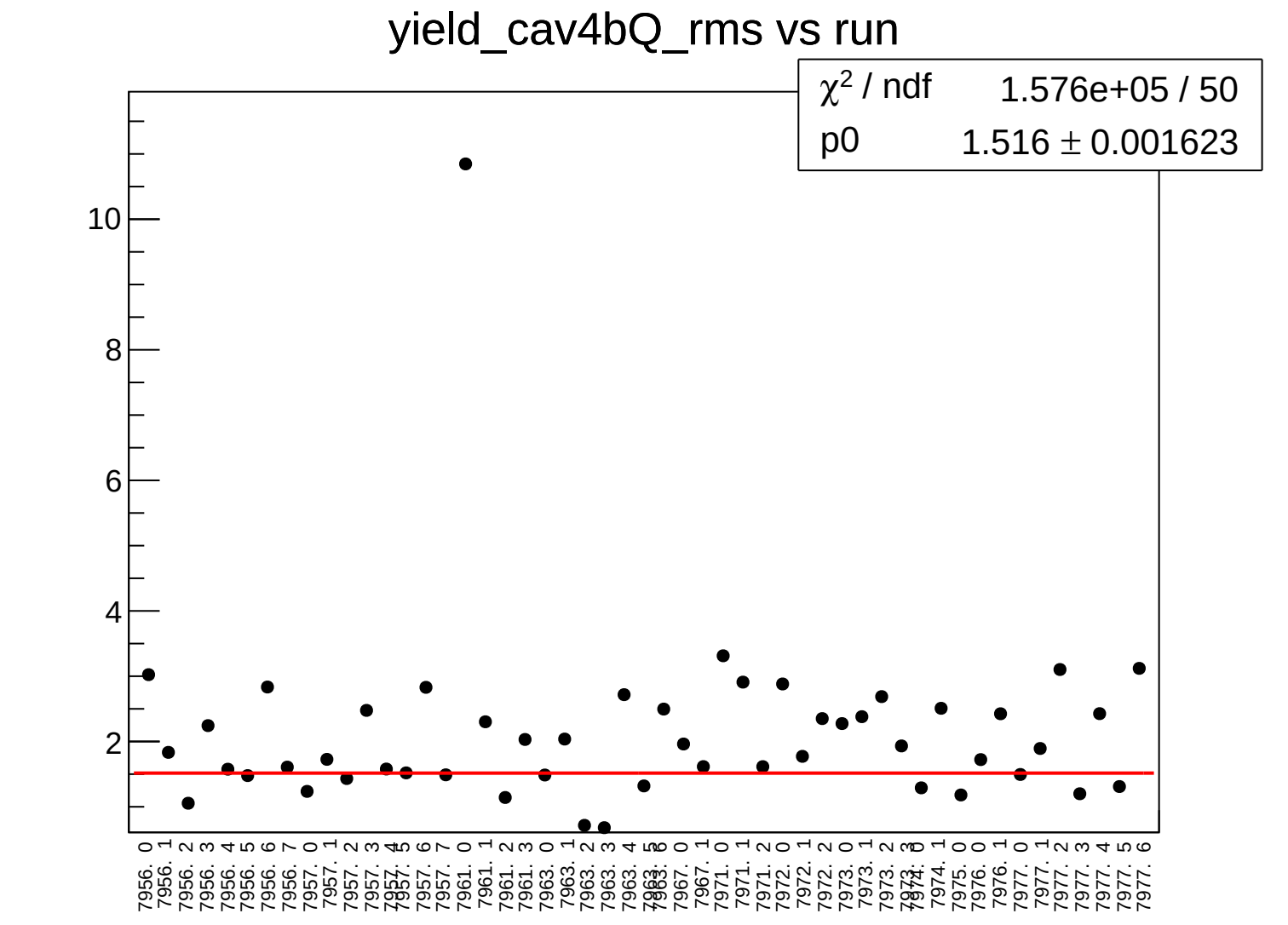
7977. 5
7977. 6


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
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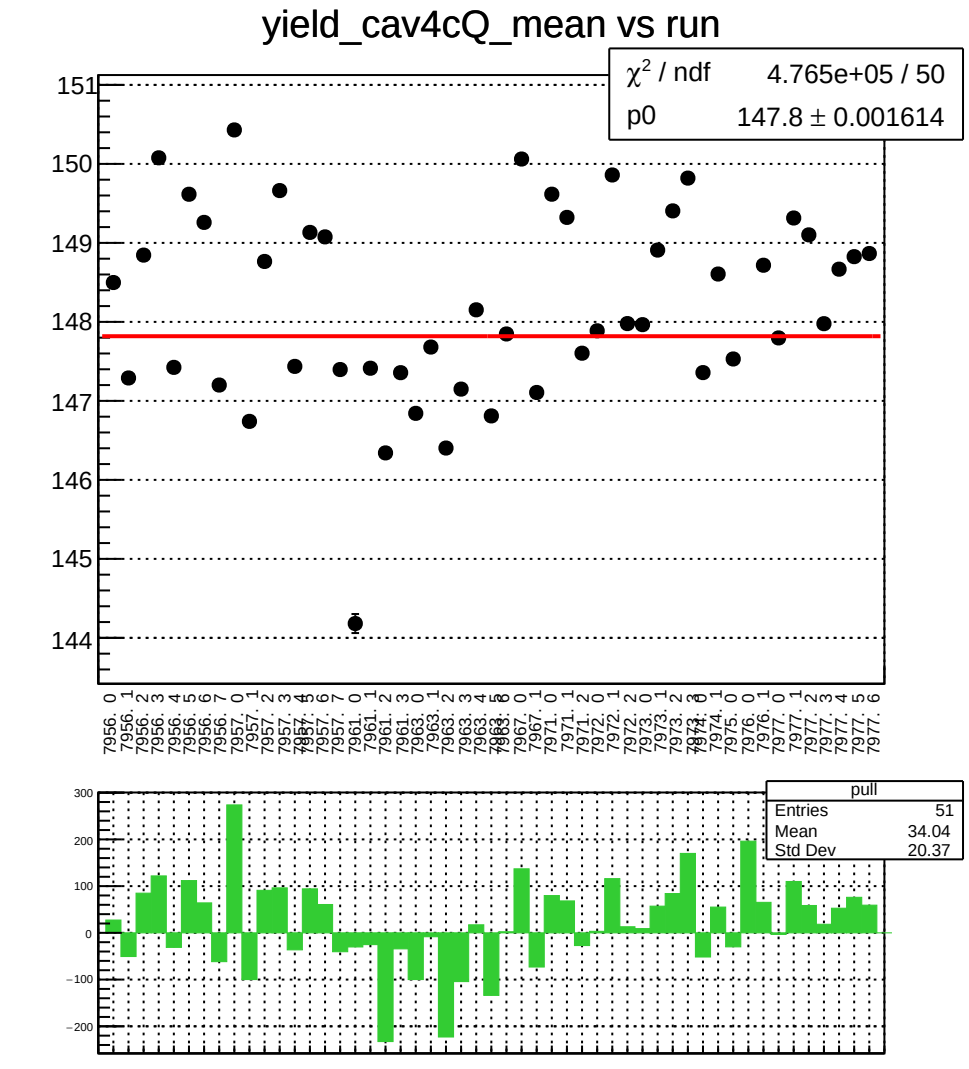
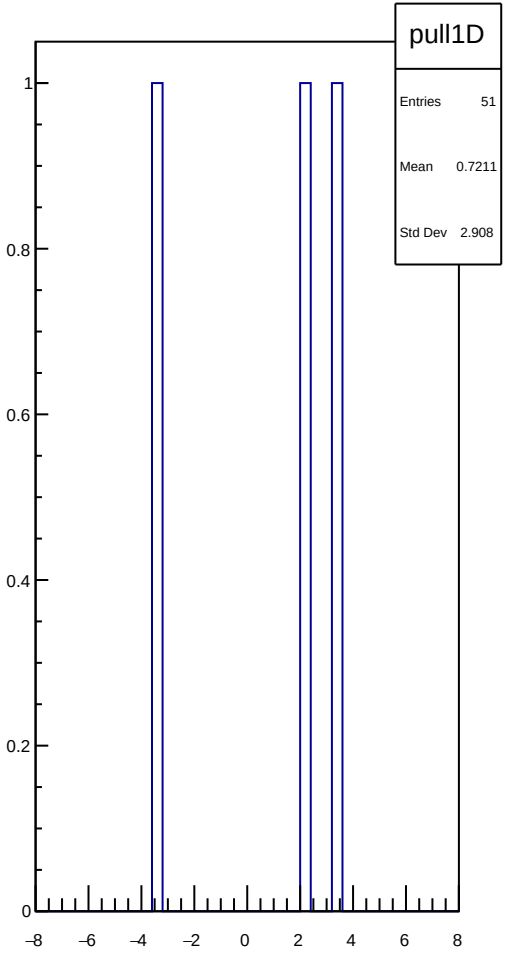
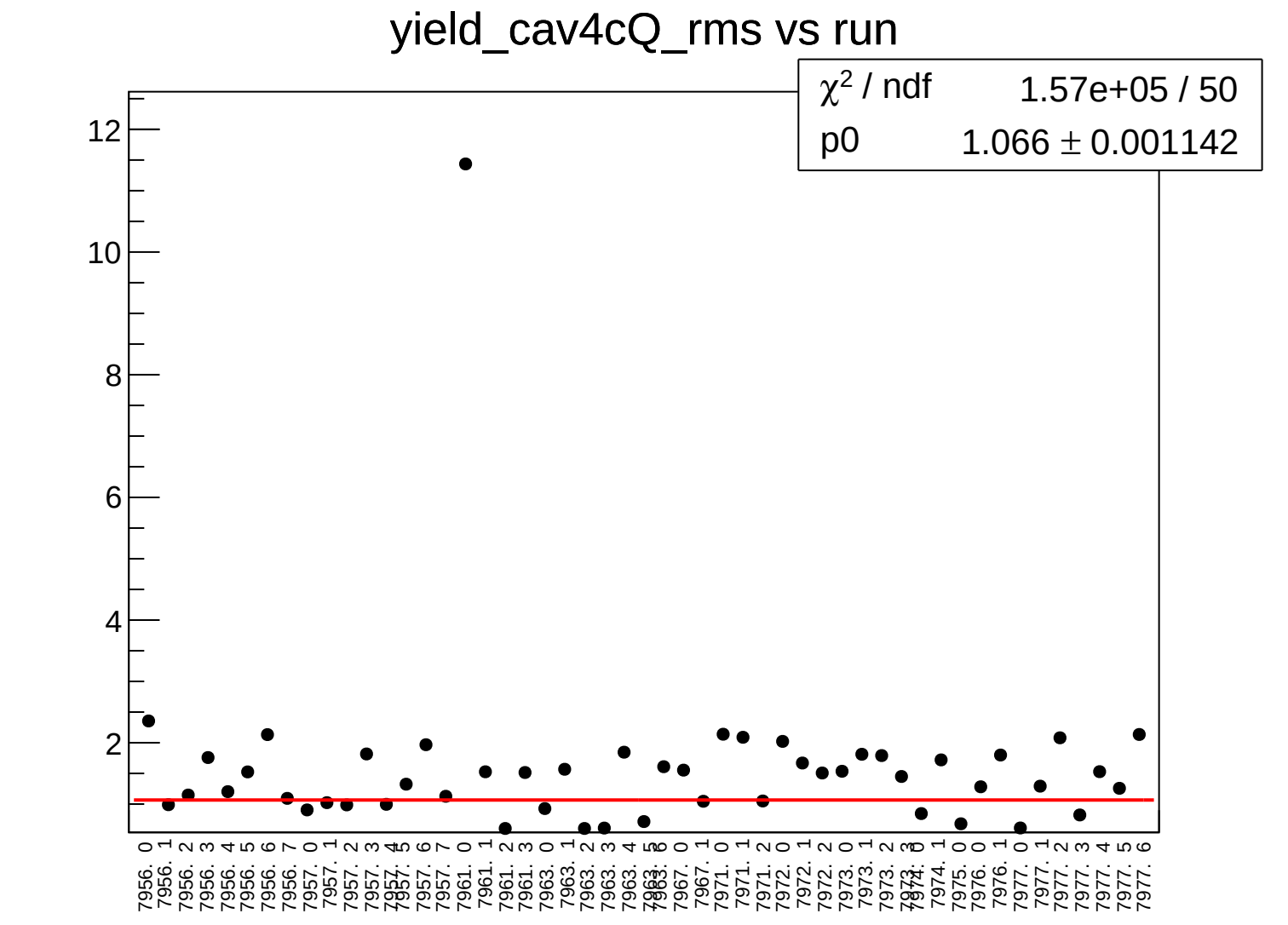
7977. 5
7977. 6


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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7976. 1
7977. 0
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7977. 3
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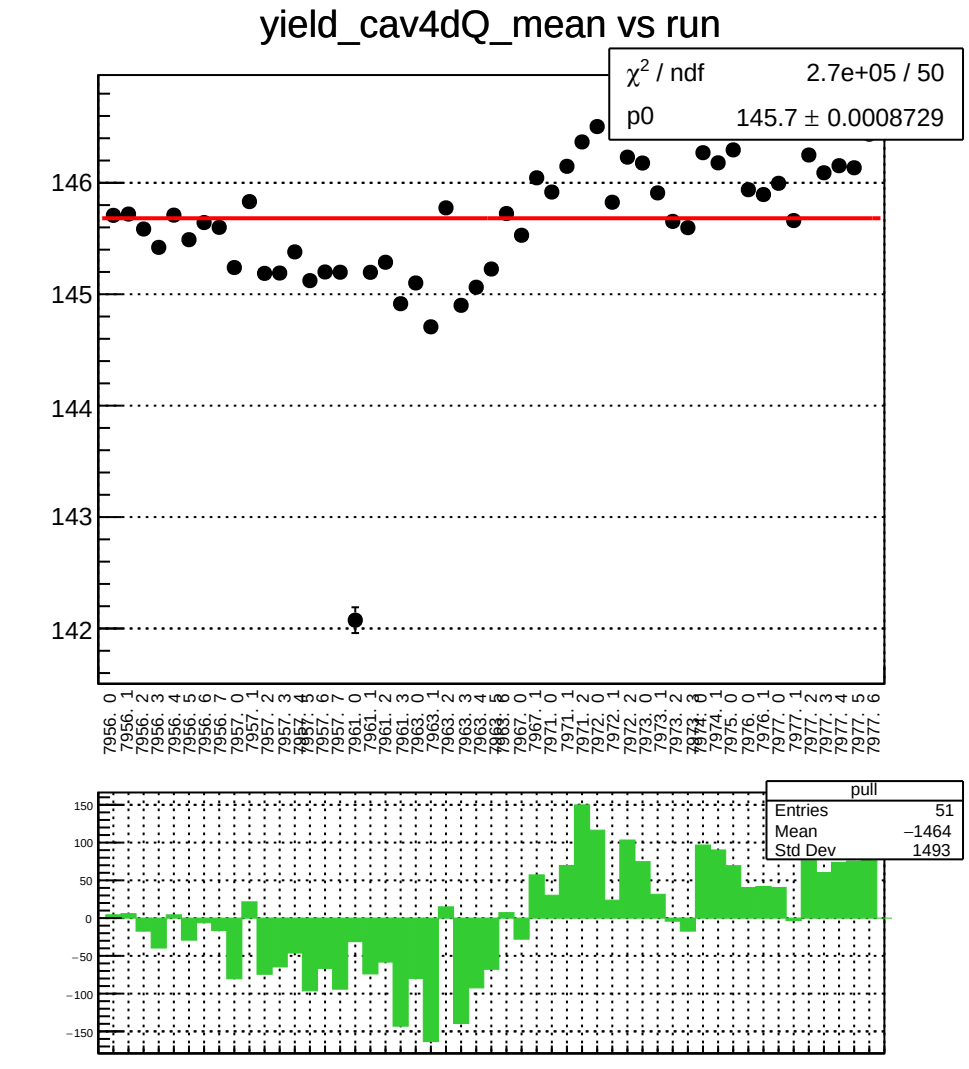
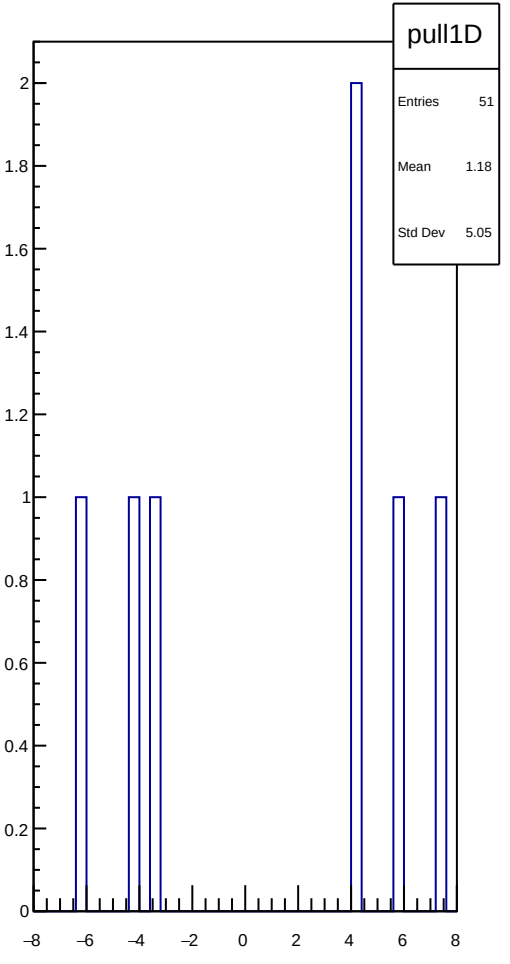
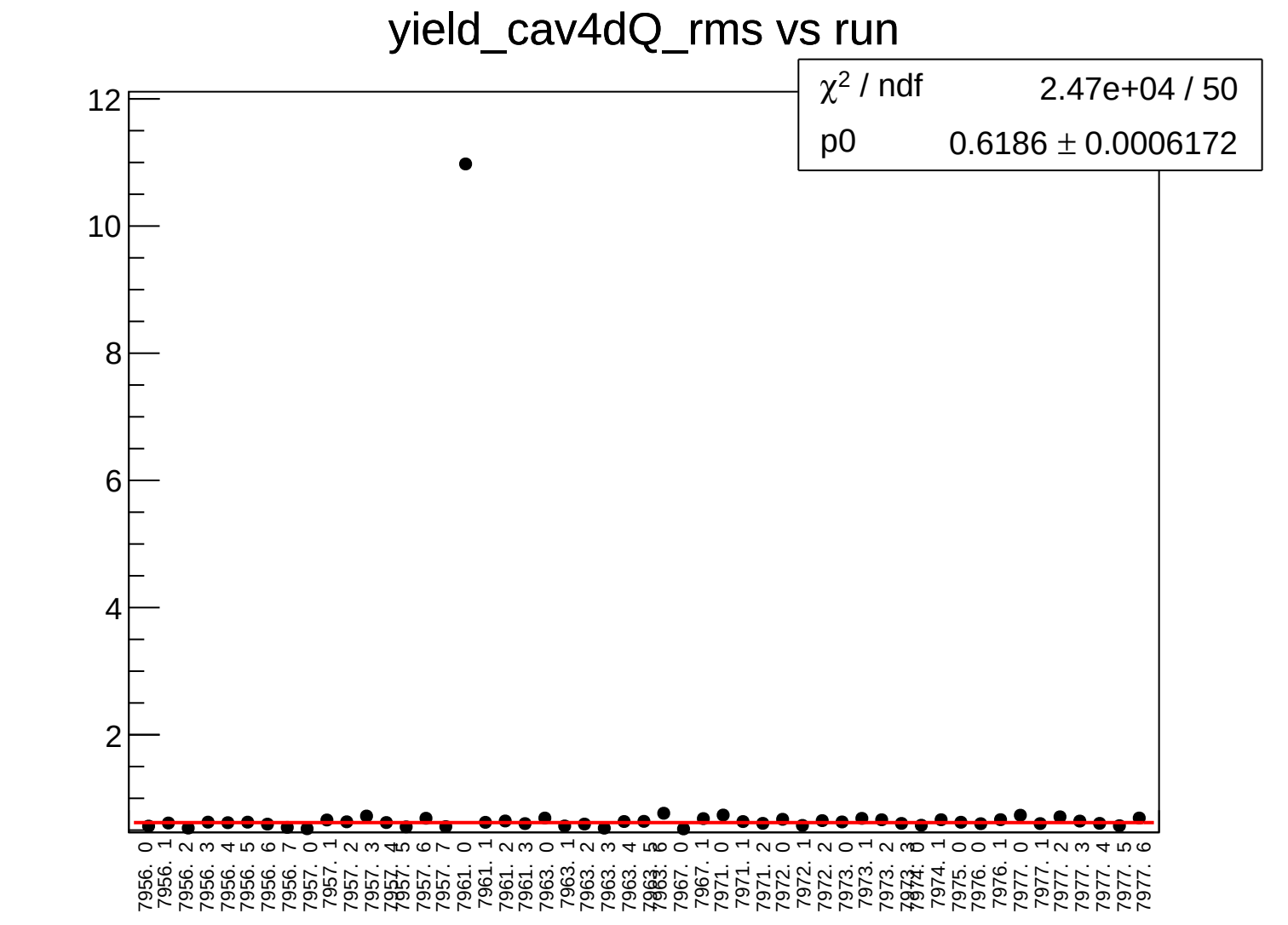
7977. 5
7977. 6


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
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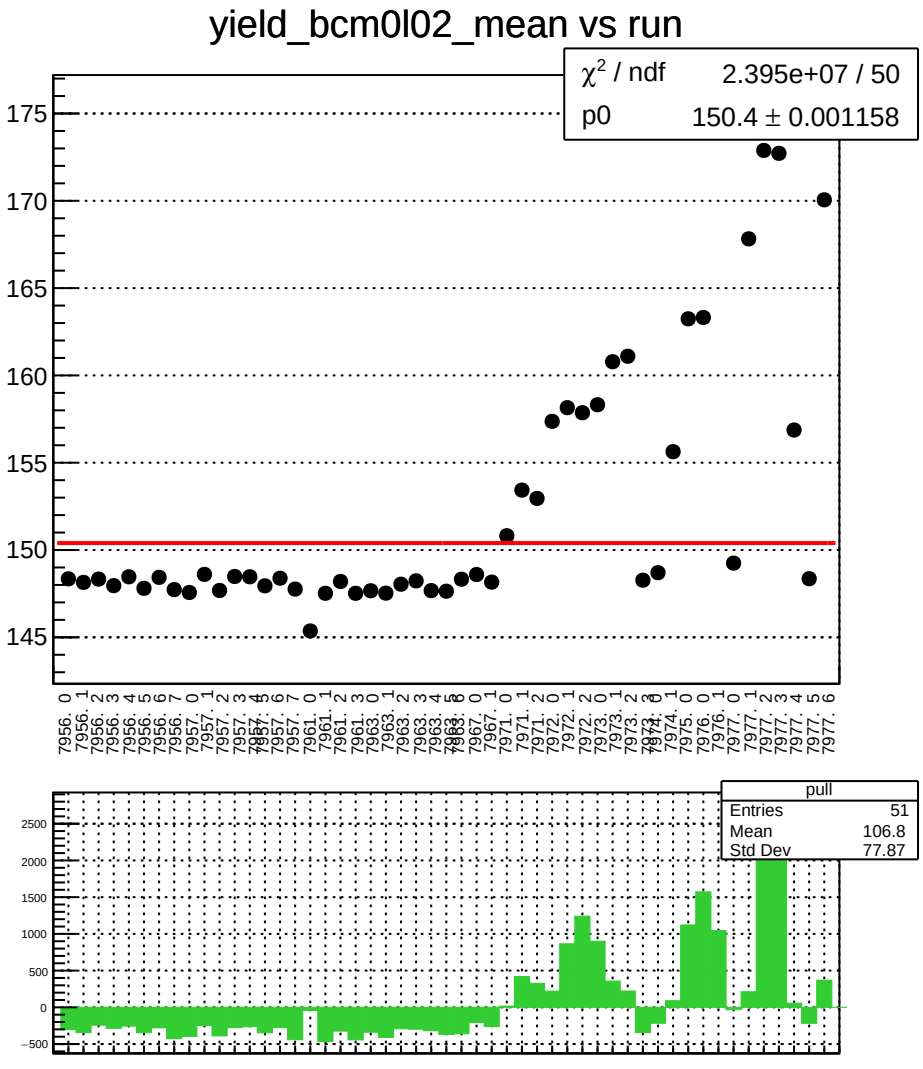
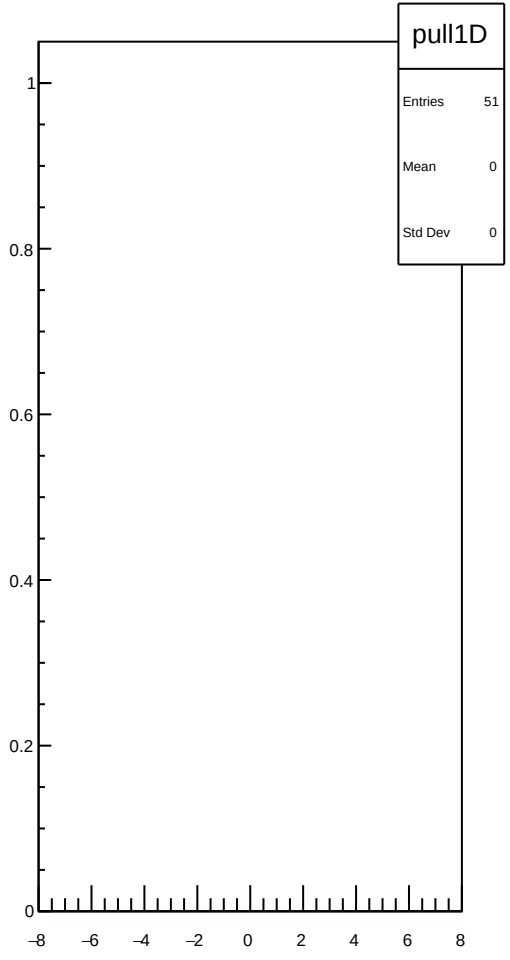
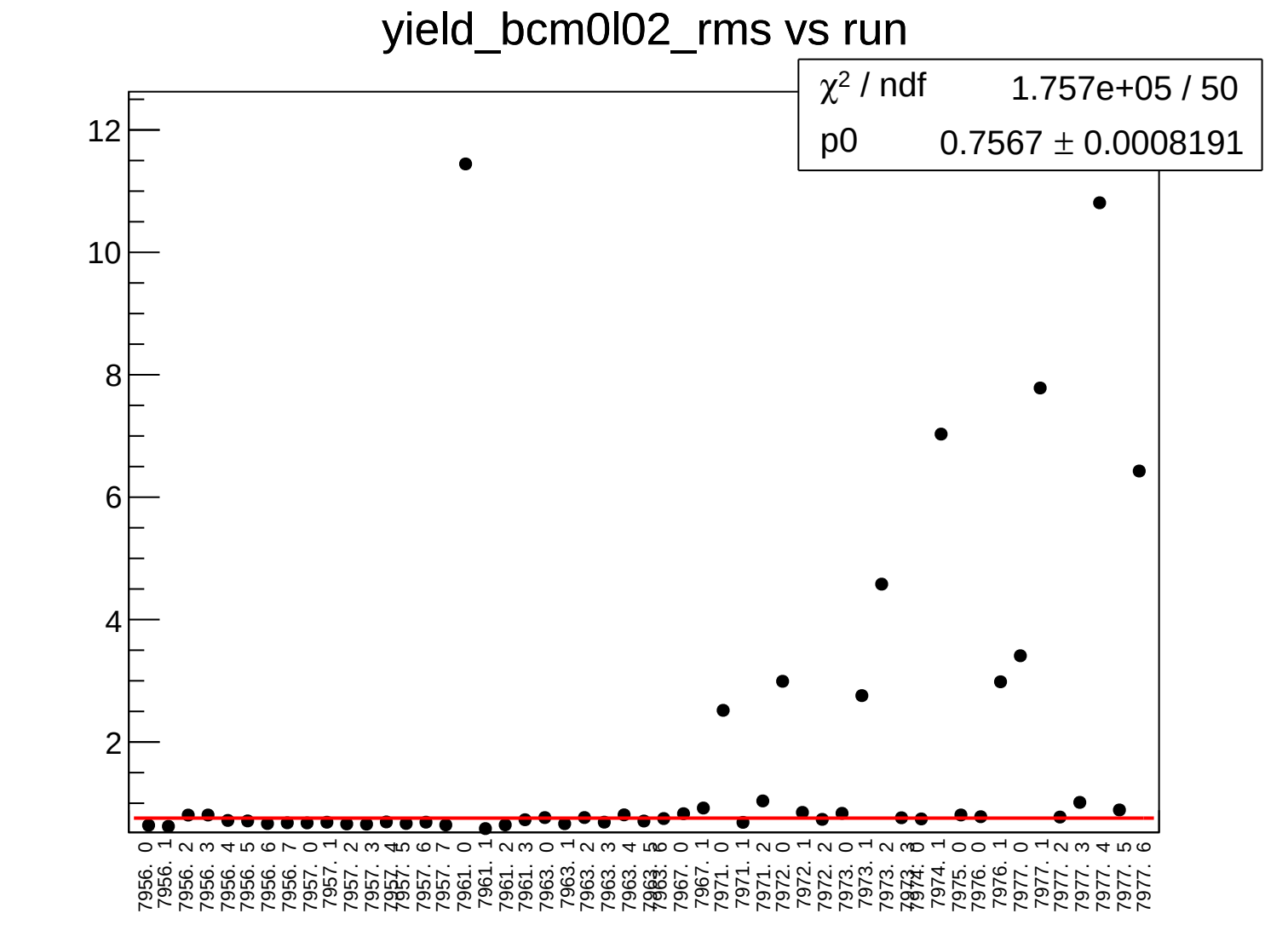
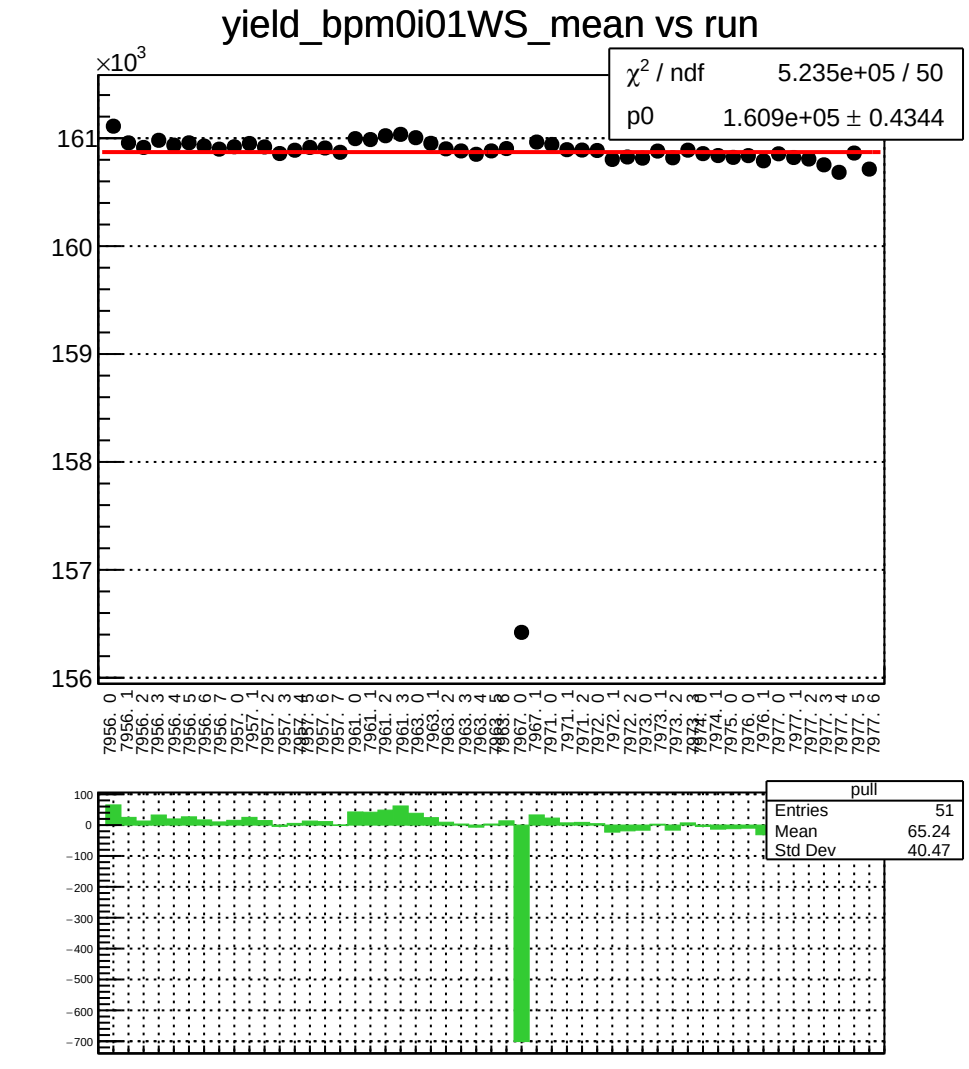
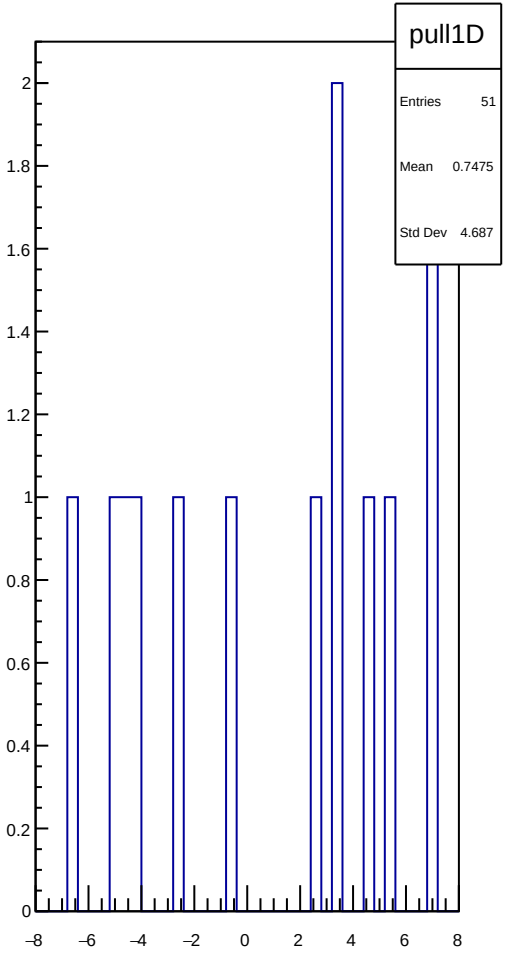
7977. 5
7977. 6

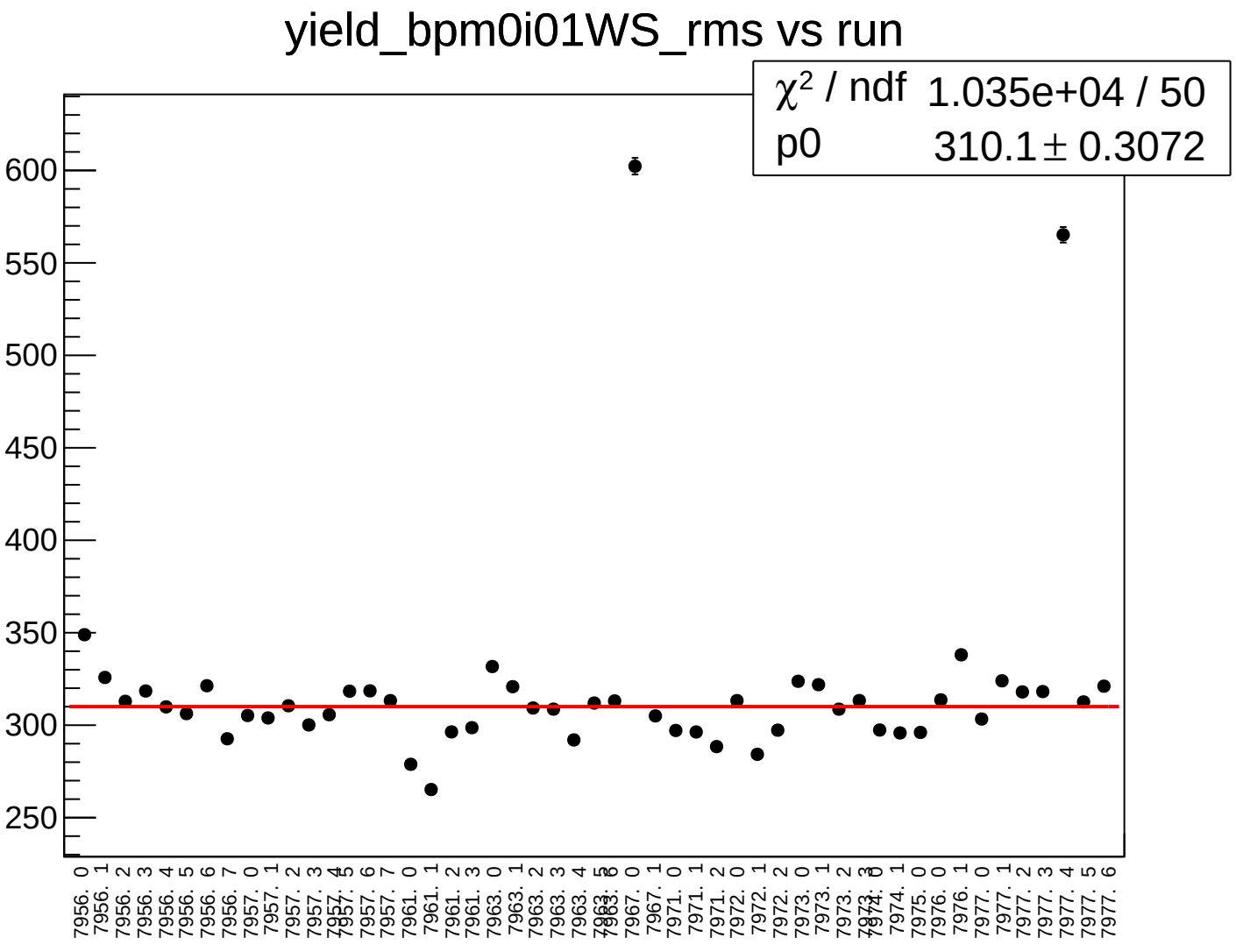

yield_bcm0l02_mean vs run
χ² / ndf 2.395e+07 / 50
p0 150.4 ± 0.001158
175
170
165
160
155
150
145
pull
Entries 51
Mean 106.8
Std Dev 77.87
2500
2000
1500
1000
500
0
−500

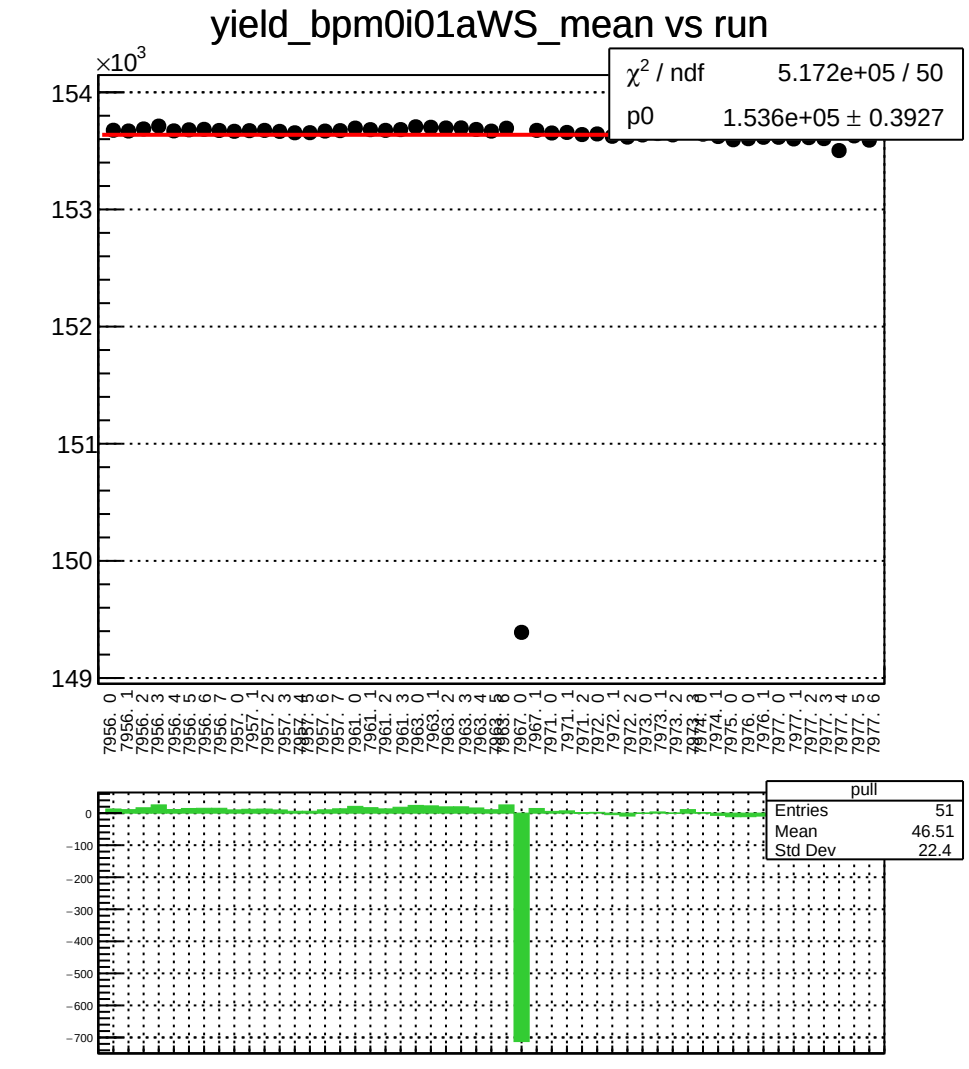

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

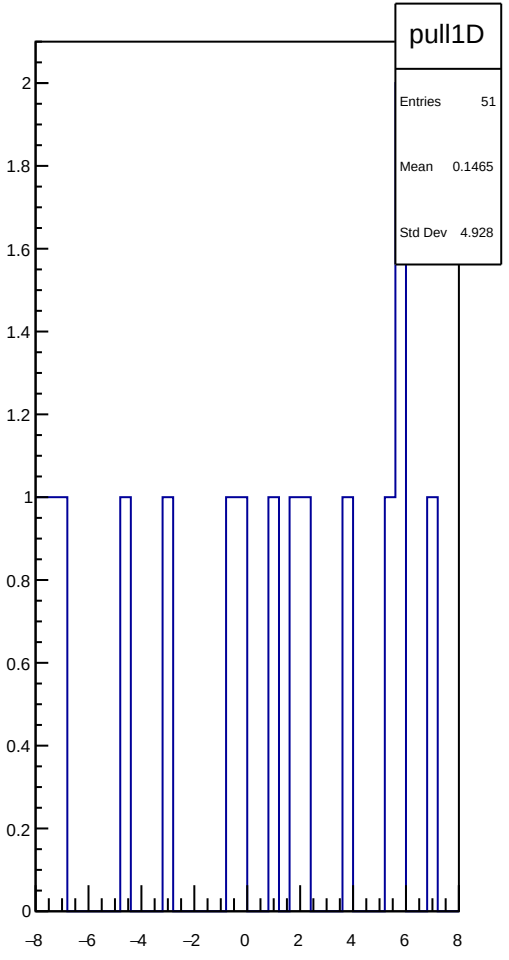

yield_bcm0l02_rms vs run
χ² / ndf 1.757e+05 / 50
p0 0.7567 ± 0.0008191
12
10
8
6
4
2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1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

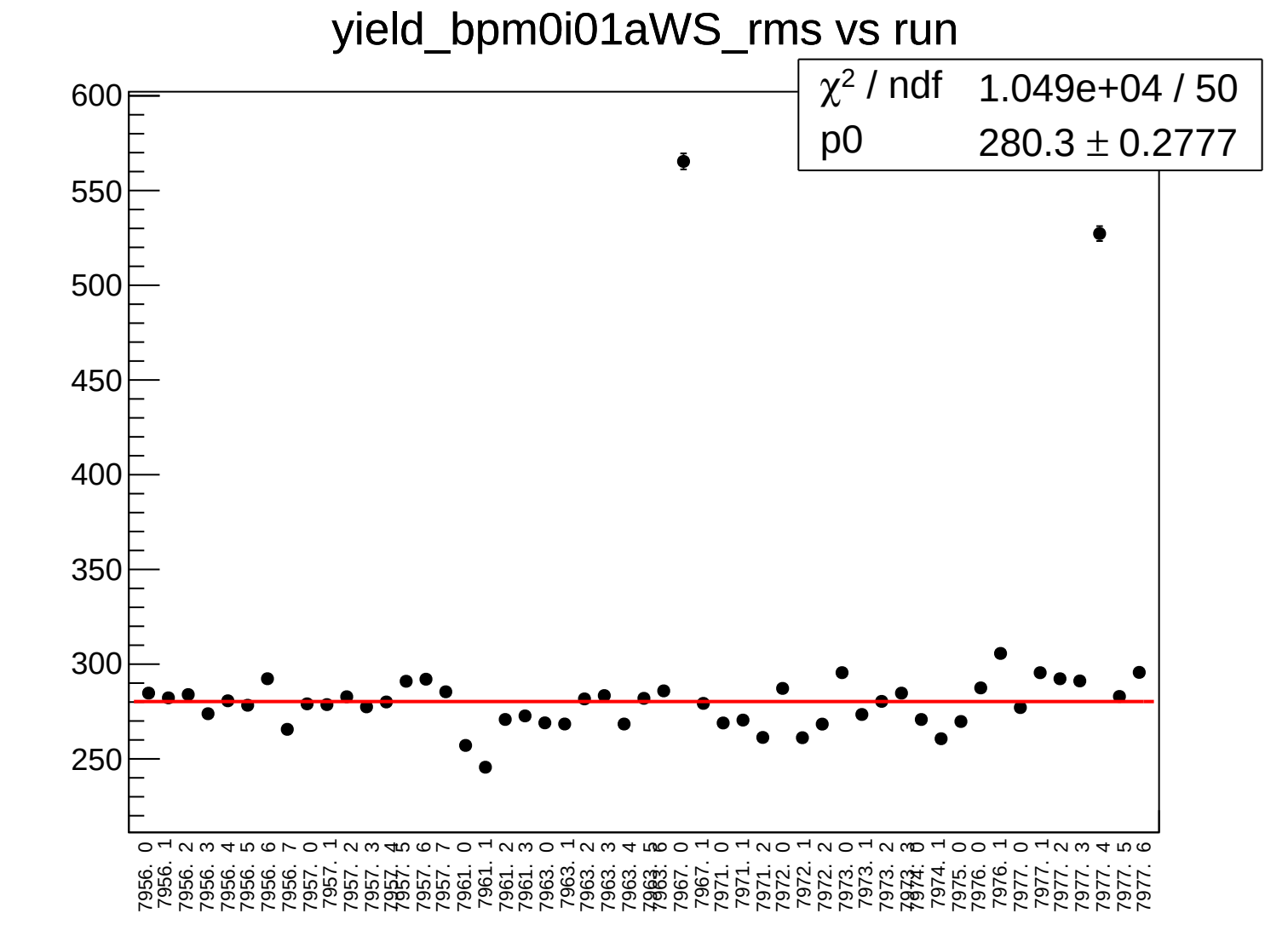

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.235e+05 / 50
p0 1.609e+05 ± 0.4344
161
160
159
158
157
156
pull
Entries 51
Mean 65.24
Std Dev 40.47
100
0
−100
−200
−300
−400
−500
−600
−700

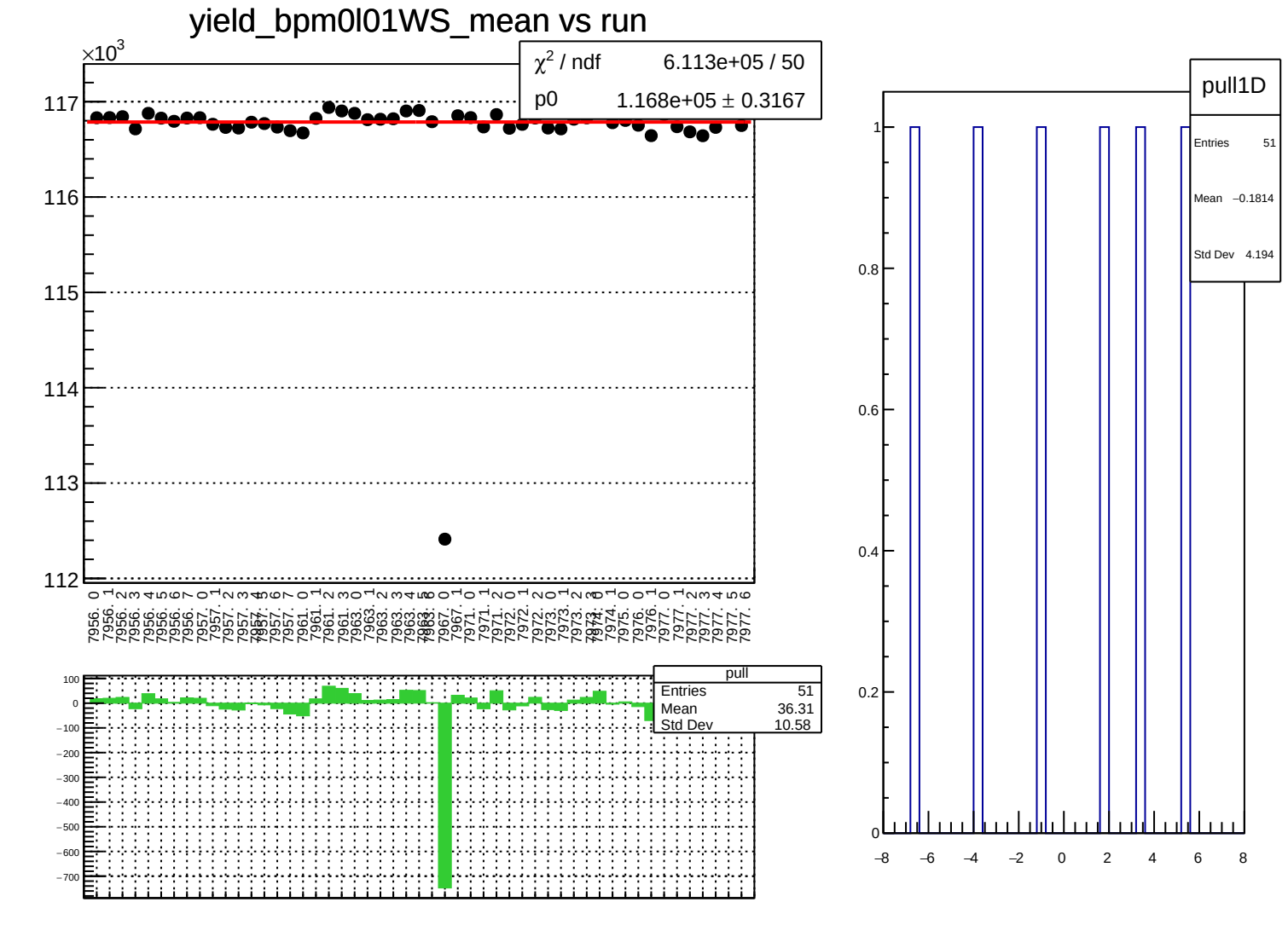

pull1D
Entries 51
Mean 0.7475
Std Dev 4.687
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

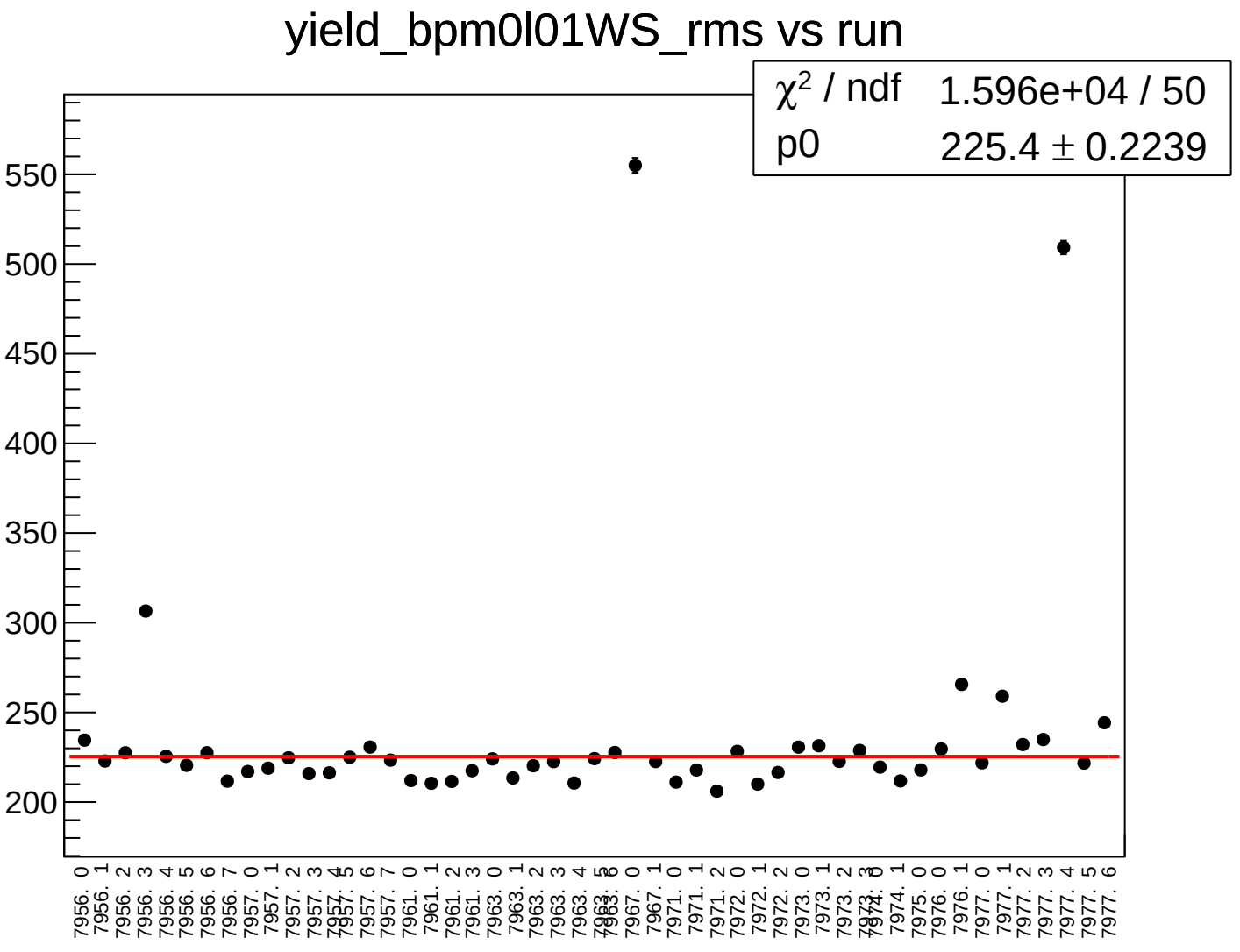

yield_bpm0i01WS_rms vs run
χ² / ndf 1.035e+04 / 50
p0 310.1 ± 0.3072
600
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
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

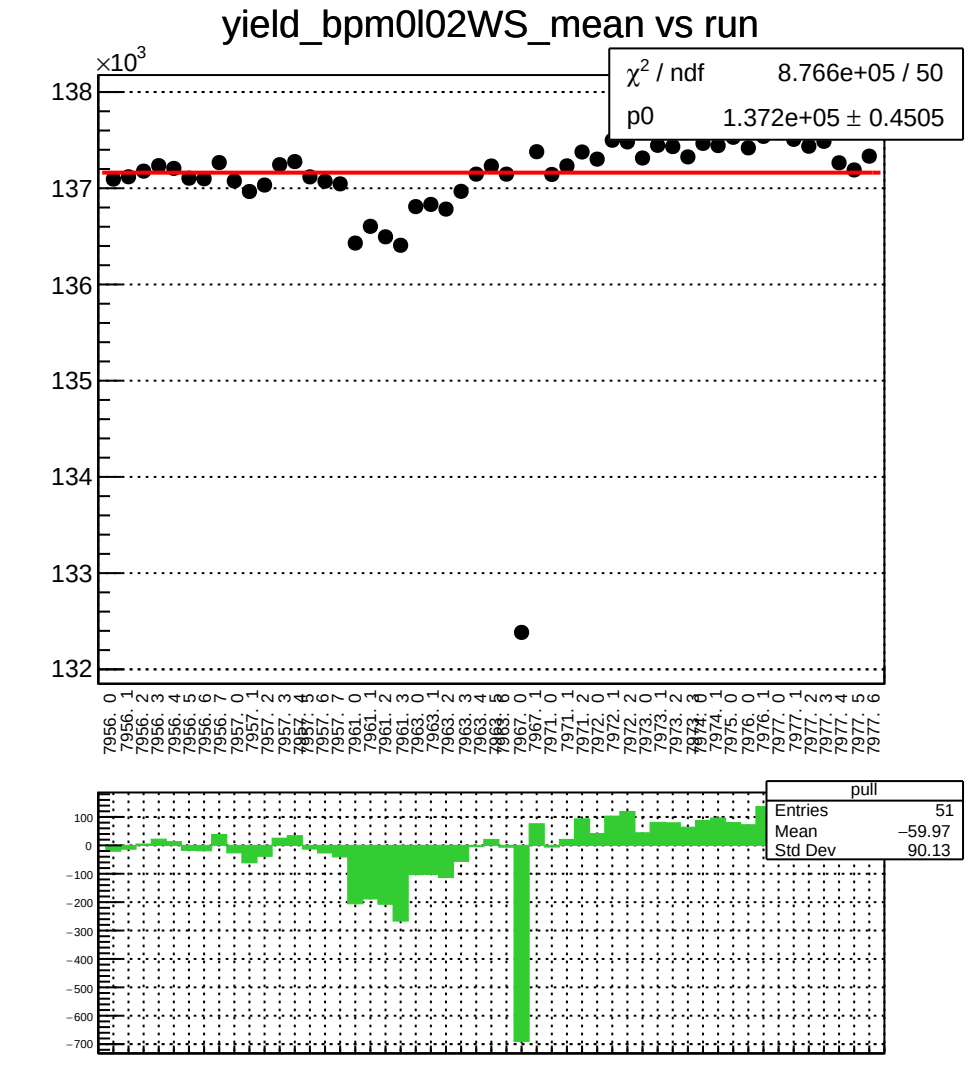

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.172e+05 / 50
p0 1.536e+05 ± 0.3927
154
153
152
151
150
149
pull
Entries 51
Mean 46.51
Std Dev 22.4
0
−100
−200
−300
−400
−500
−600
−700

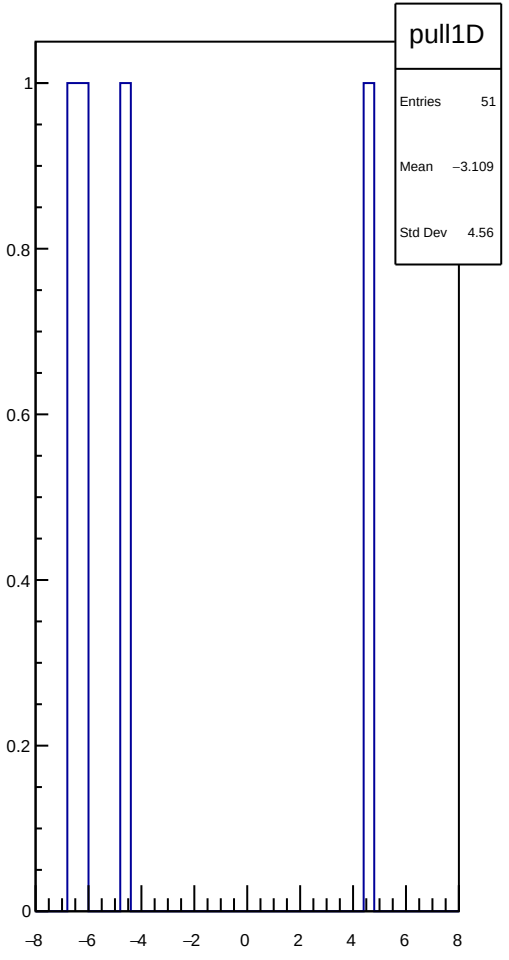

pull1D
Entries 51
Mean 0.1465
Std Dev 4.928
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

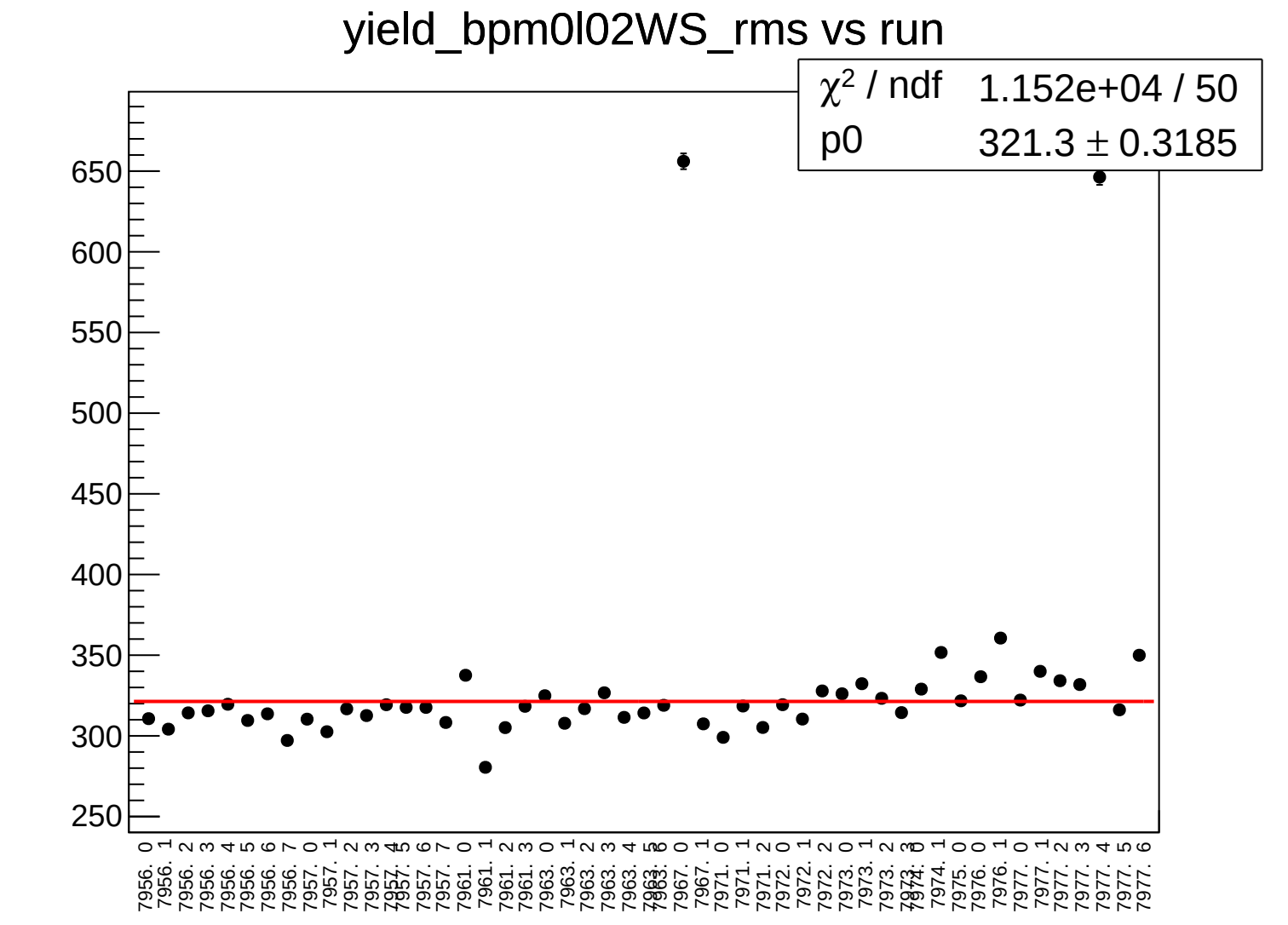

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.049e+04 / 50
p0 280.3 ± 0.2777
600
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
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_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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 8.766e+05 / 50
p0 1.372e+05 ± 0.4505
138
137
136
135
134
133
132
pull
Entries 51
Mean −59.97
Std Dev 90.13
100
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 51
Mean −3.109
Std Dev 4.56
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l02WS_rms vs run
χ² / ndf 1.152e+04 / 50
p0 321.3 ± 0.3185
650
600
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
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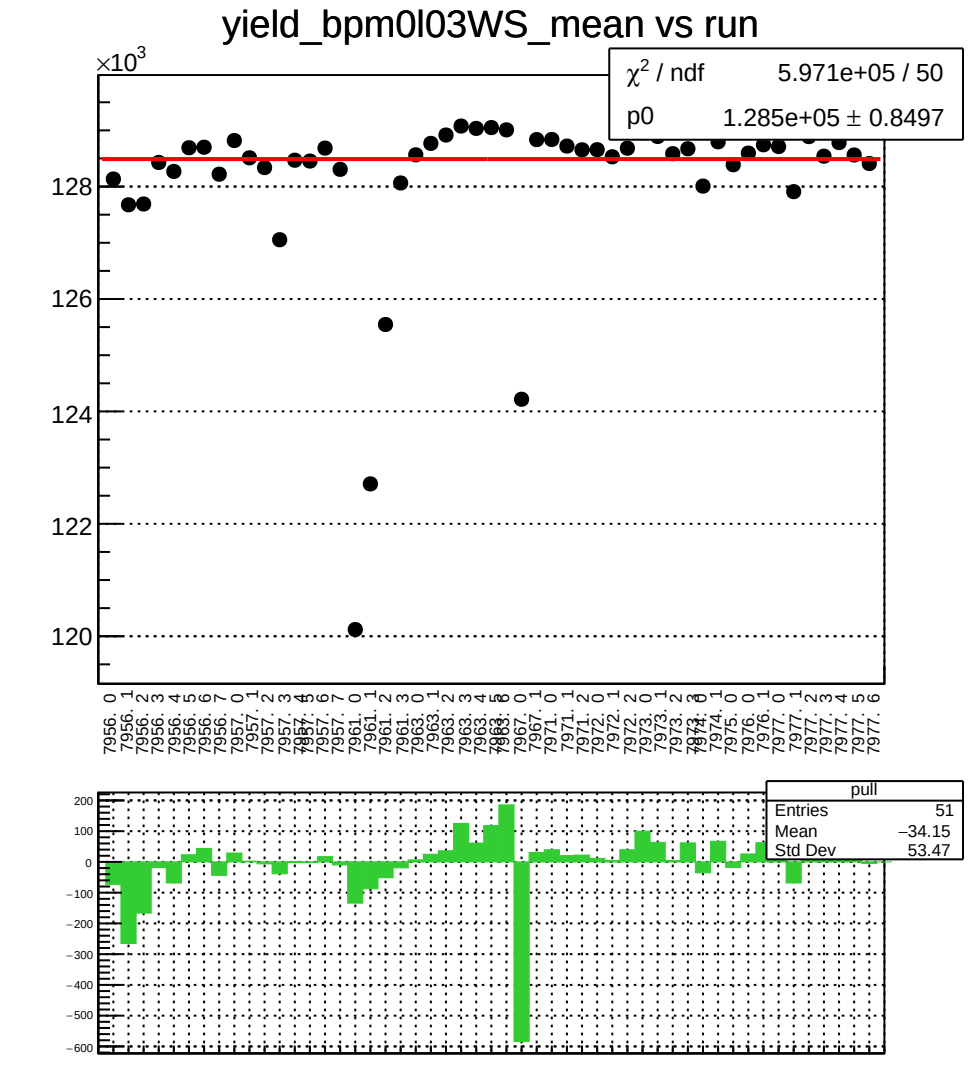
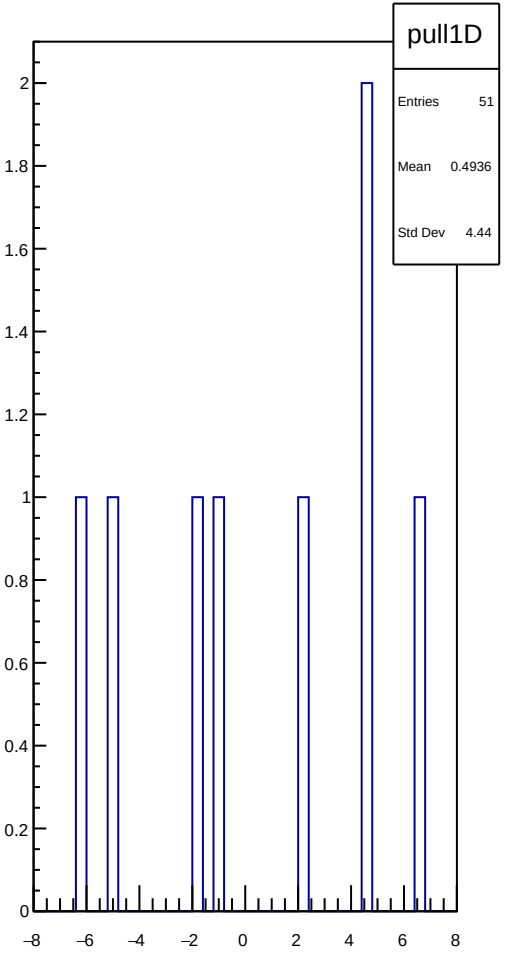
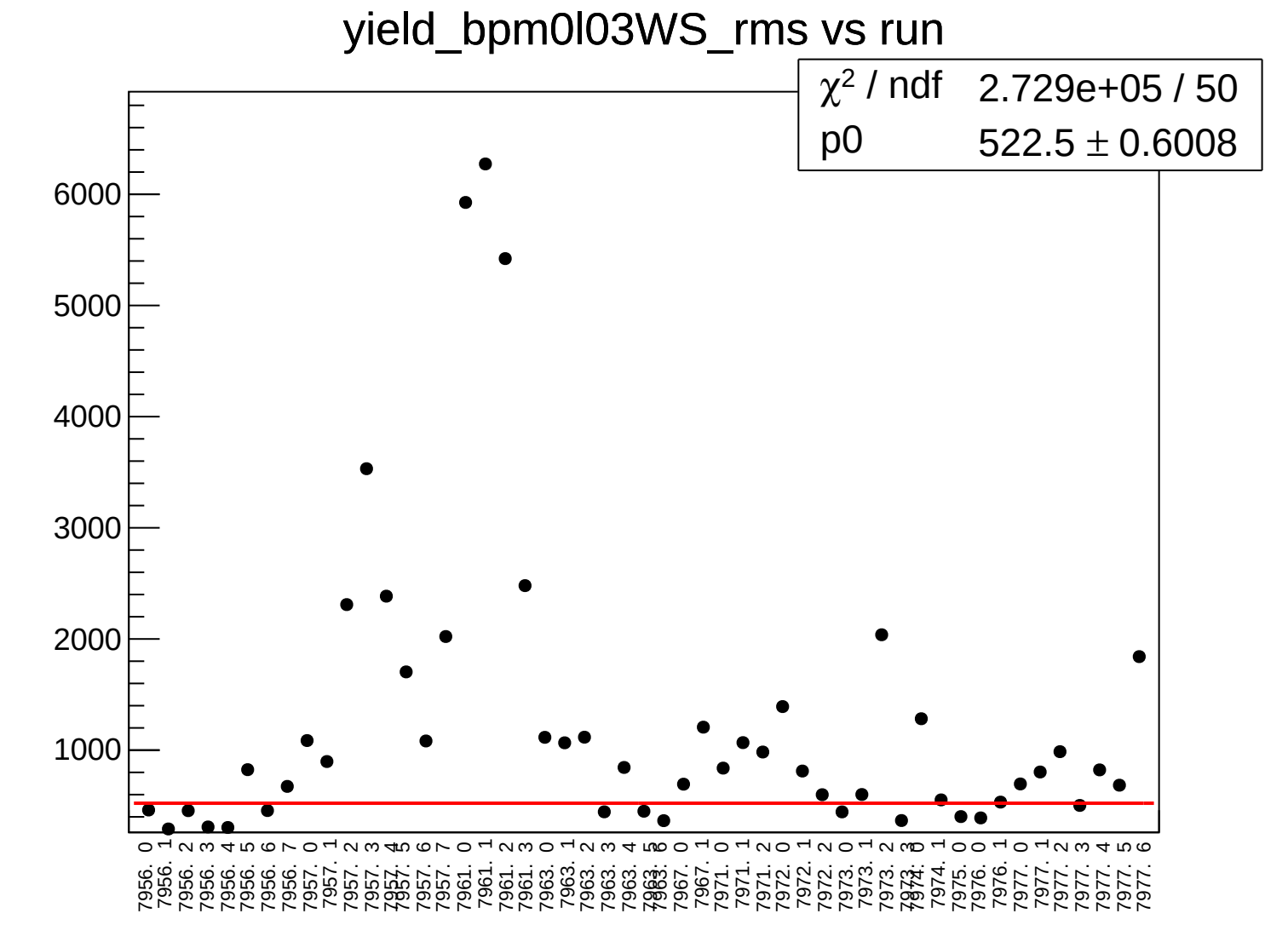
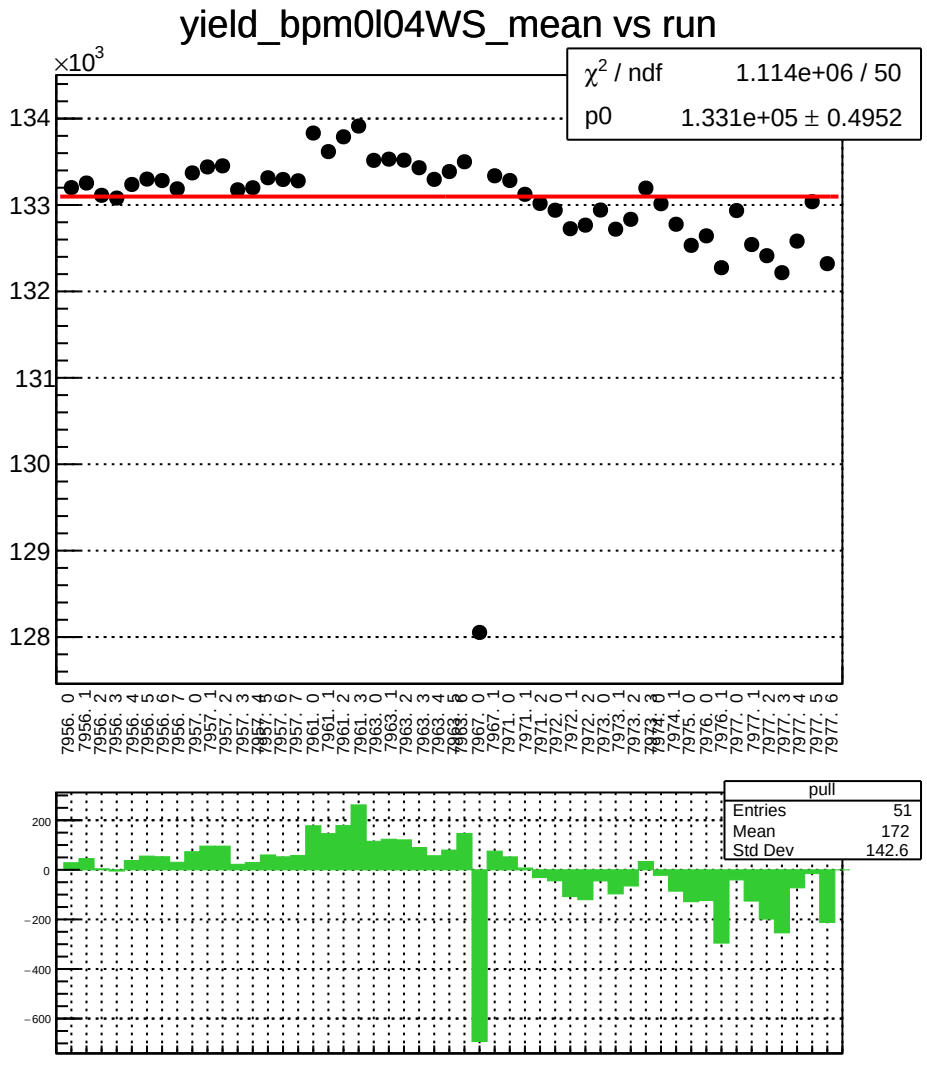
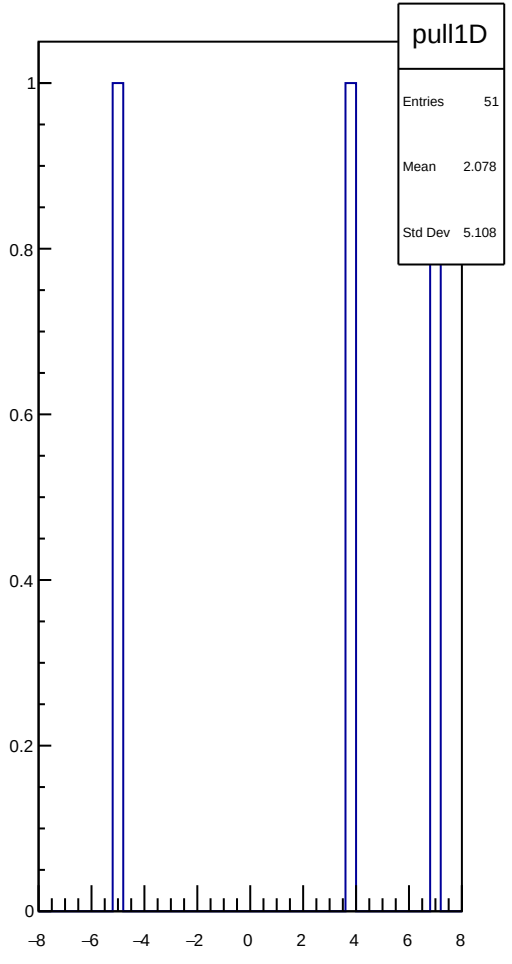
7977. 5
7977. 6

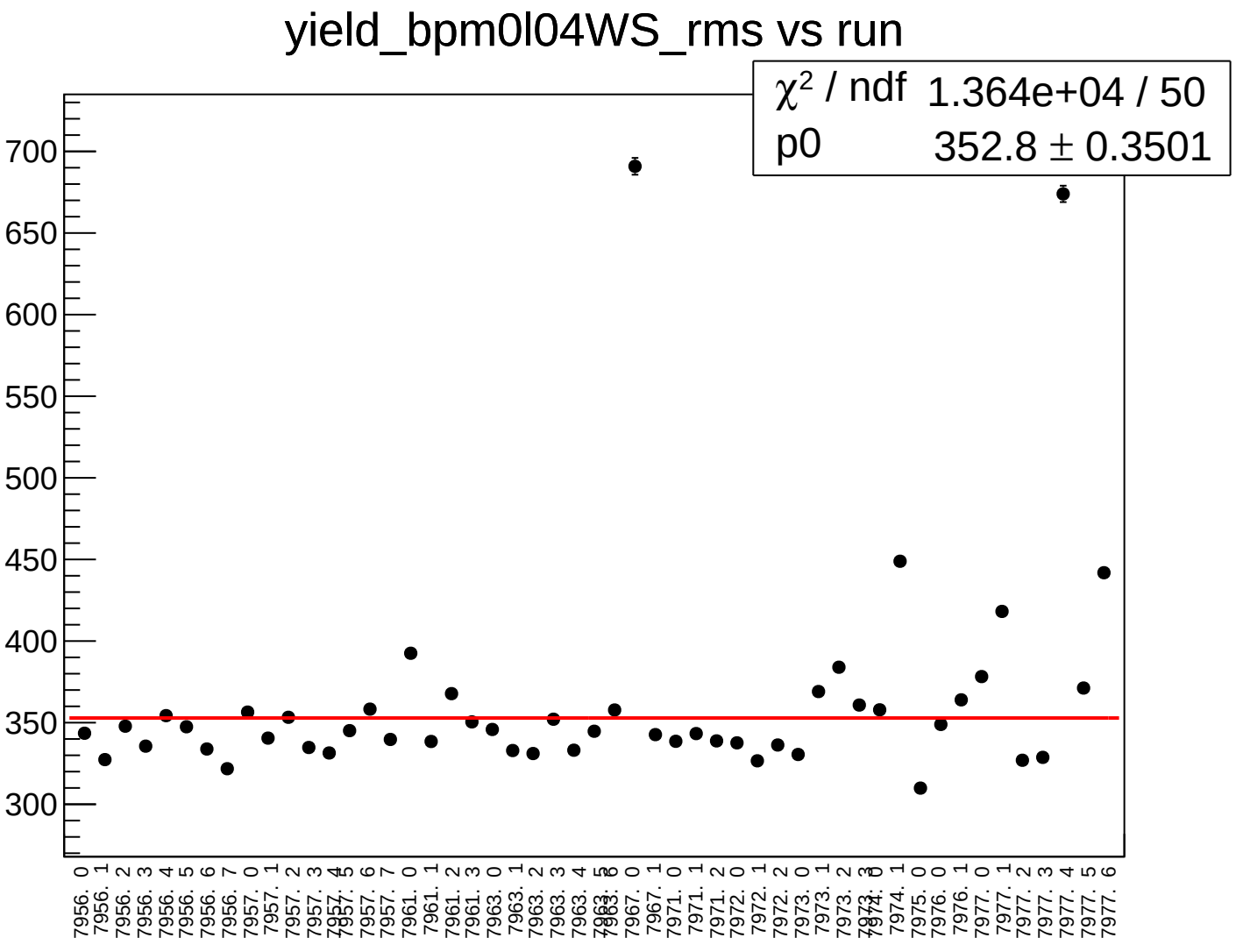

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 5.971e+05 / 50
p0 1.285e+05 ± 0.8497
128
126
124
122
120
pull
Entries 51
Mean −34.15
Std Dev 53.47
200
100
0
−100
−200
−300
−400
−500
−600

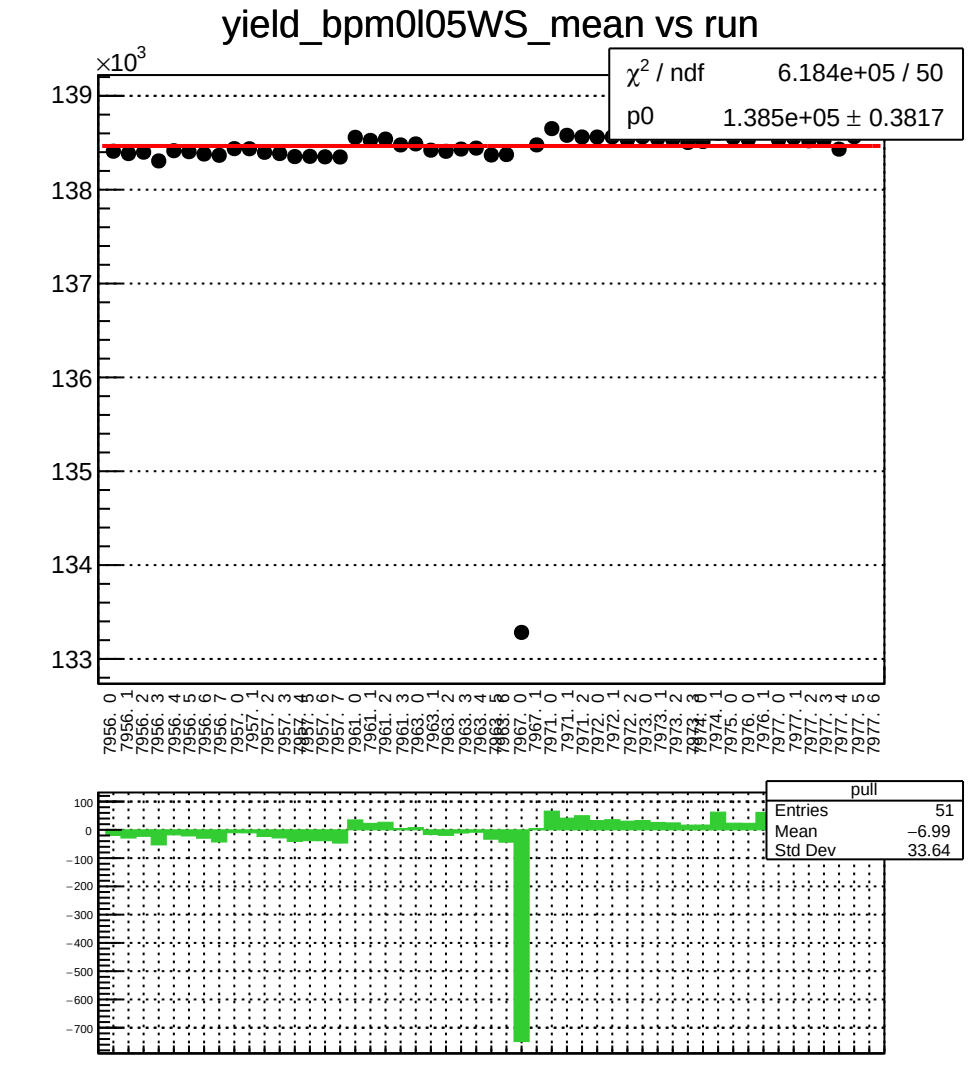

pull1D
Entries 51
Mean 0.4936
Std Dev 4.44
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

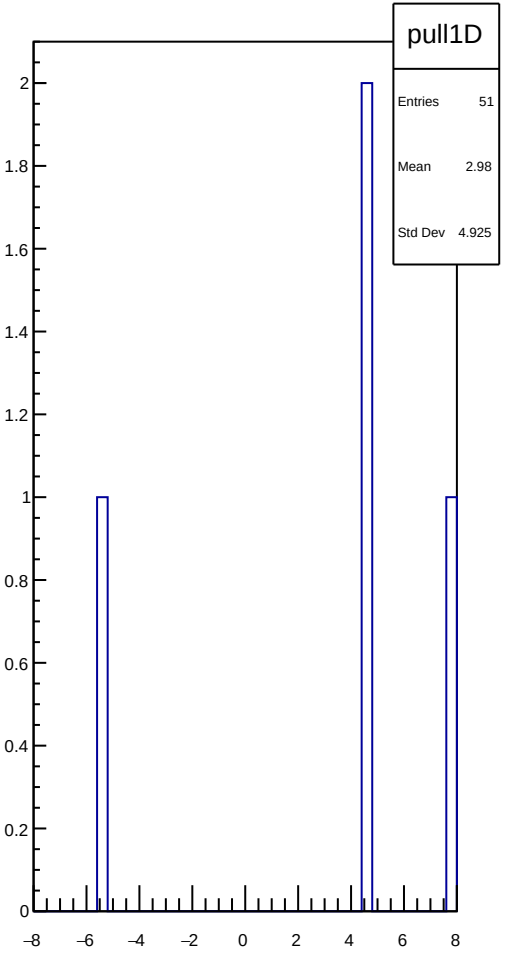

yield_bpm0l03WS_rms vs run
χ² / ndf 2.729e+05 / 50
p0 522.5 ± 0.6008
6000
5000
4000
3000
2000
1000
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 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

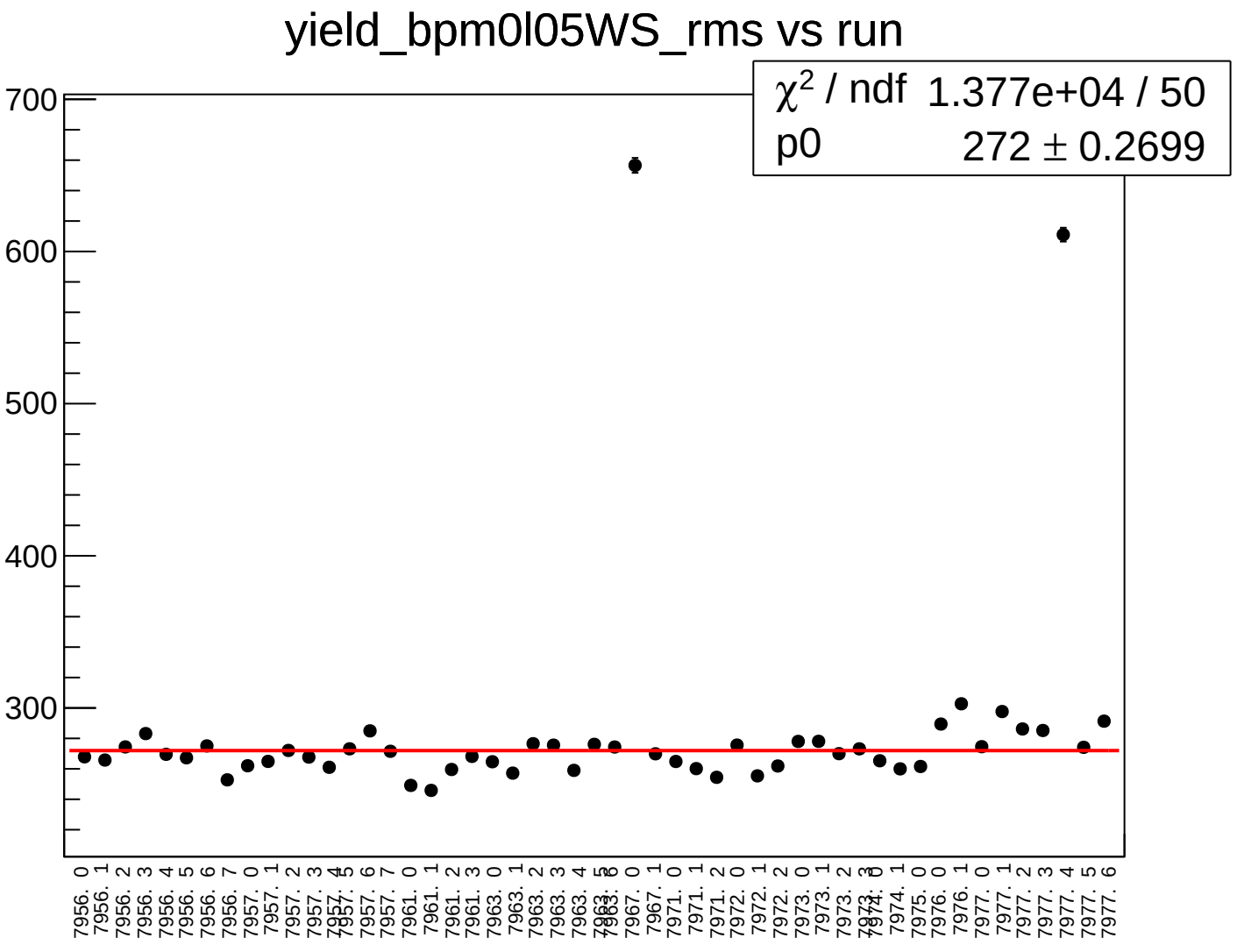

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.114e+06 / 50
p0 1.331e+05 ± 0.4952
134
133
132
131
130
129
128
pull
Entries 51
Mean 172
Std Dev 142.6
200
0
−200
−400
−600


pull1D
Entries 51
Mean 2.078
Std Dev 5.108
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04WS_rms vs run
χ² / ndf 1.364e+04 / 50
p0 352.8 ± 0.3501
700
650
600
550
500
450
400
350
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


yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.184e+05 / 50
p0 1.385e+05 ± 0.3817
pull
Entries 51
Mean −6.99
Std Dev 33.64


pull1D
Entries 51
Mean 2.98
Std Dev 4.925


yield_bpm0l05WS_rms vs run
χ² / ndf 1.377e+04 / 50
p0 272 ± 0.2699
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
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7976. 1
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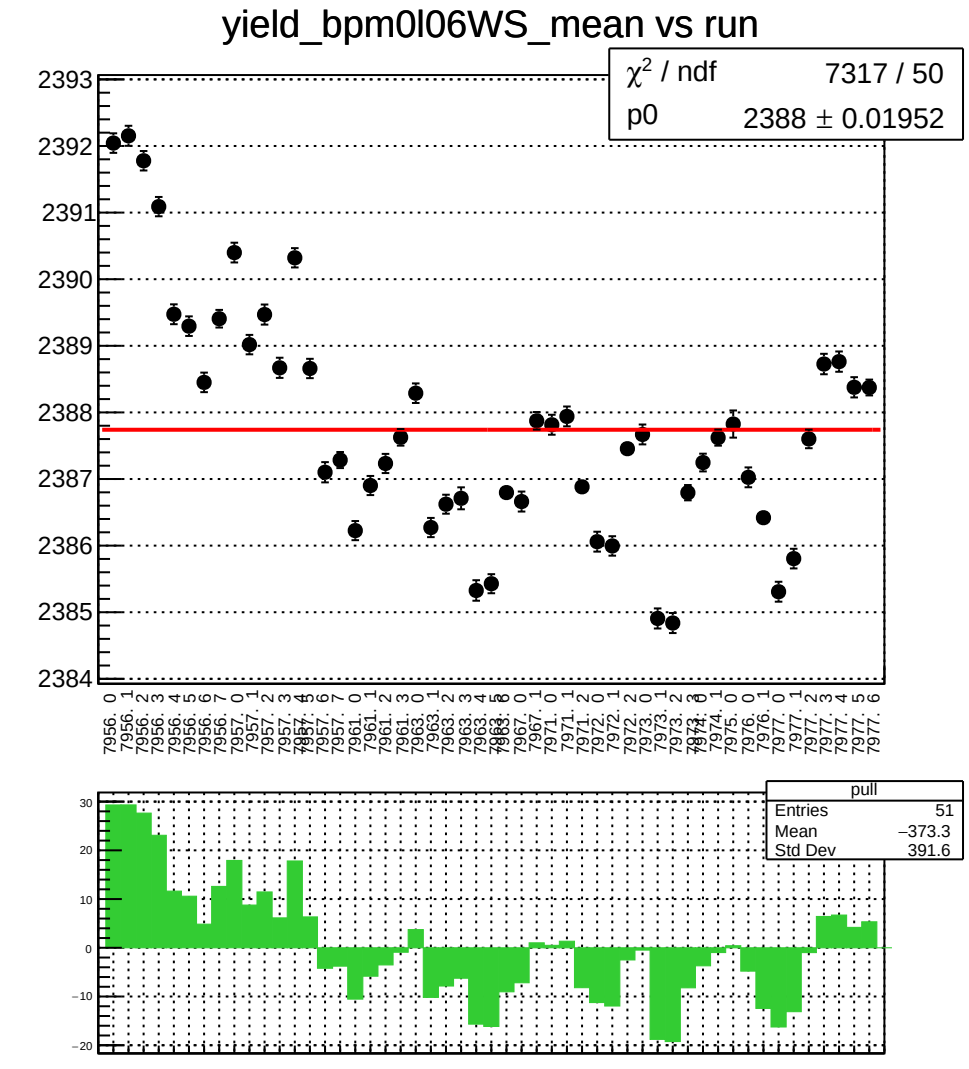
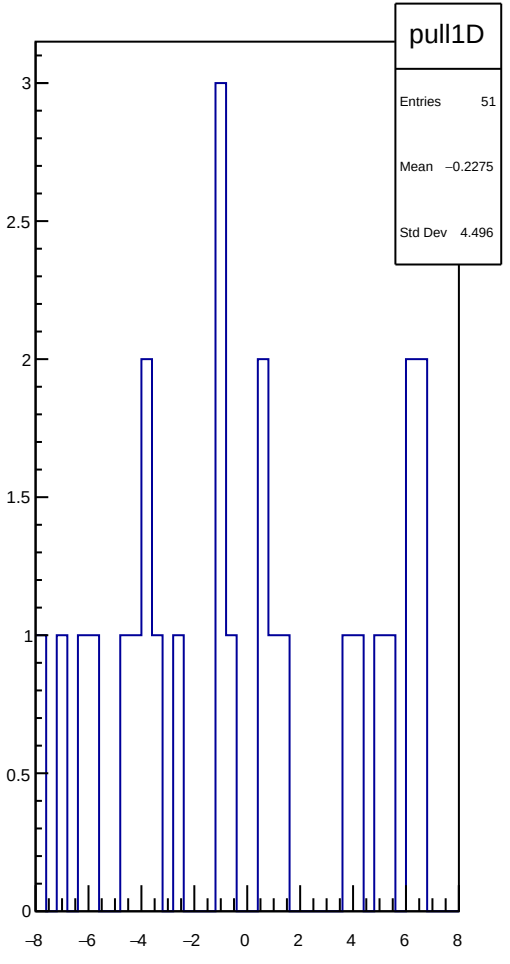
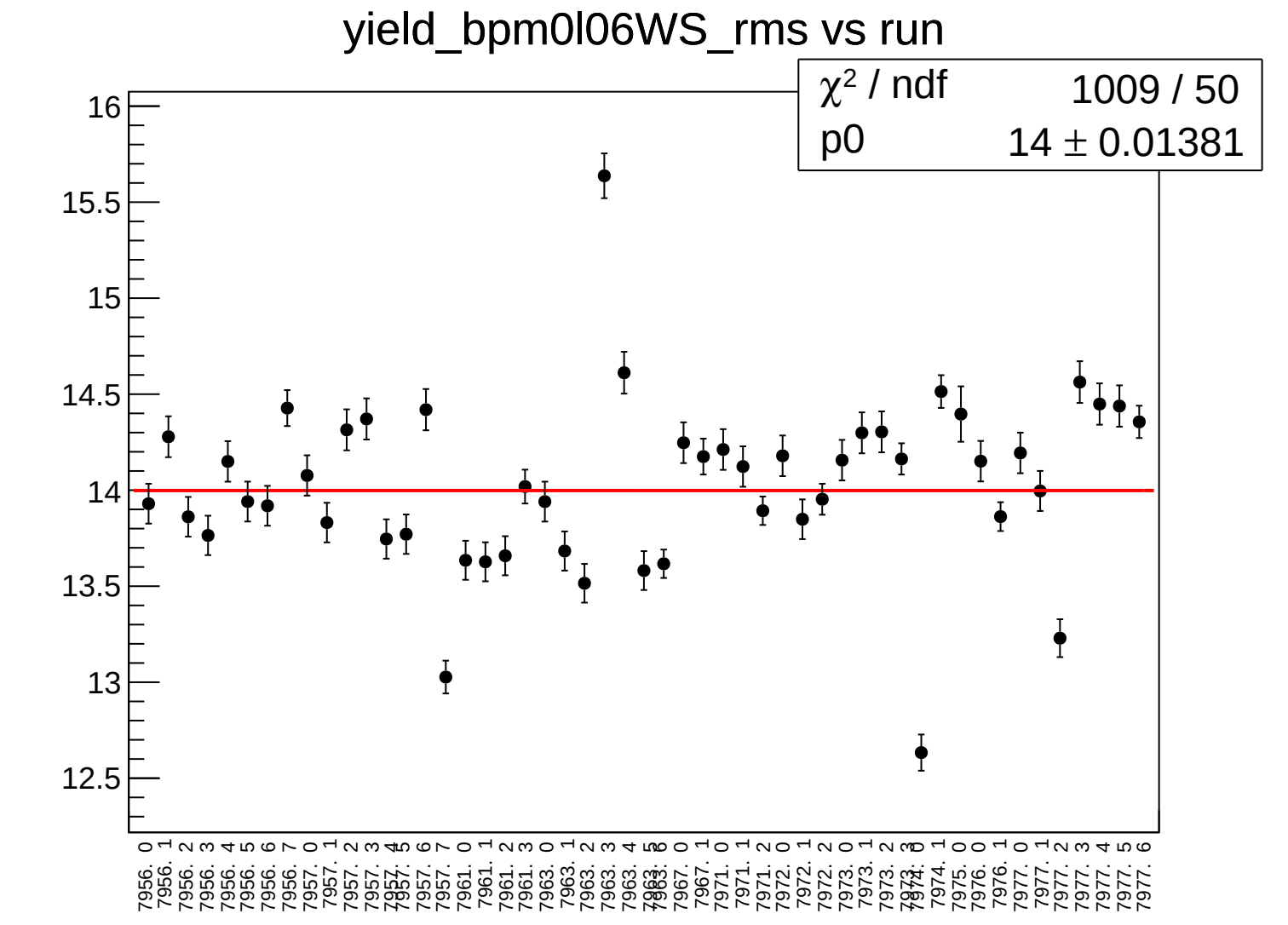
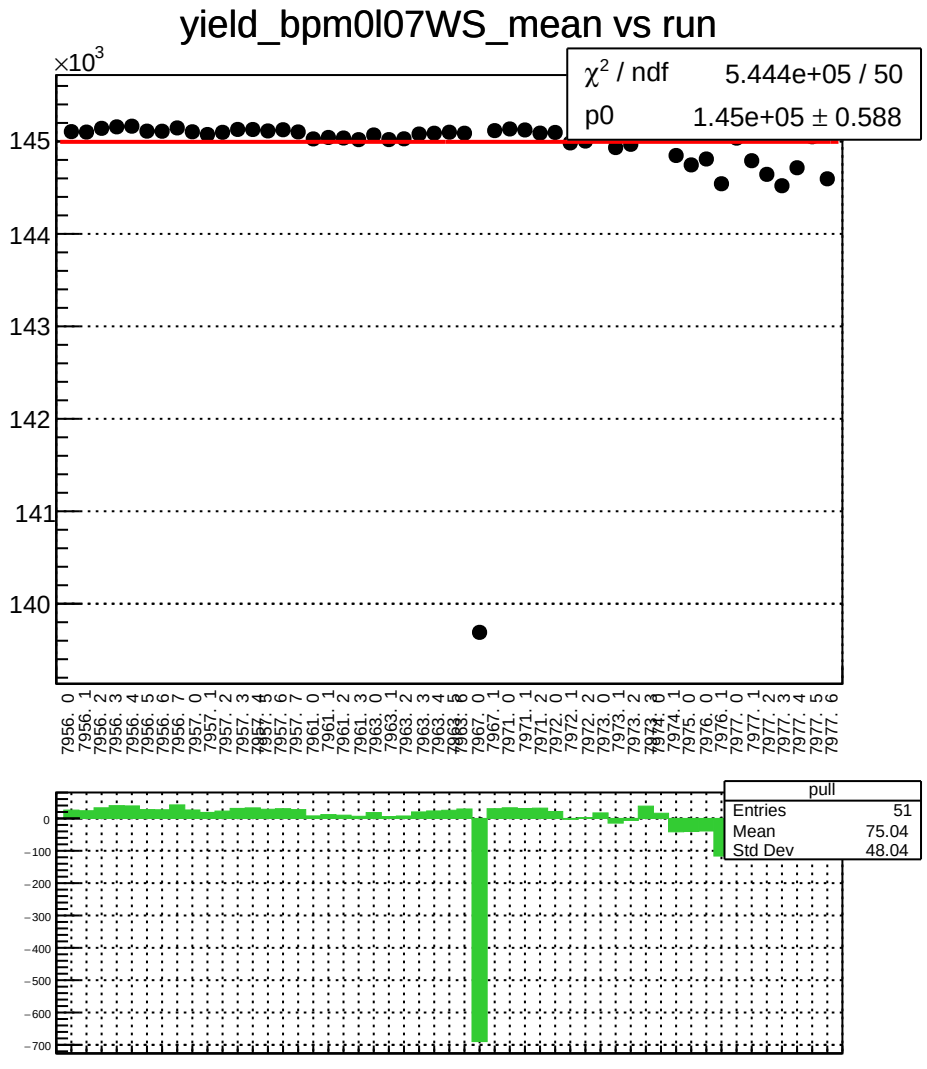
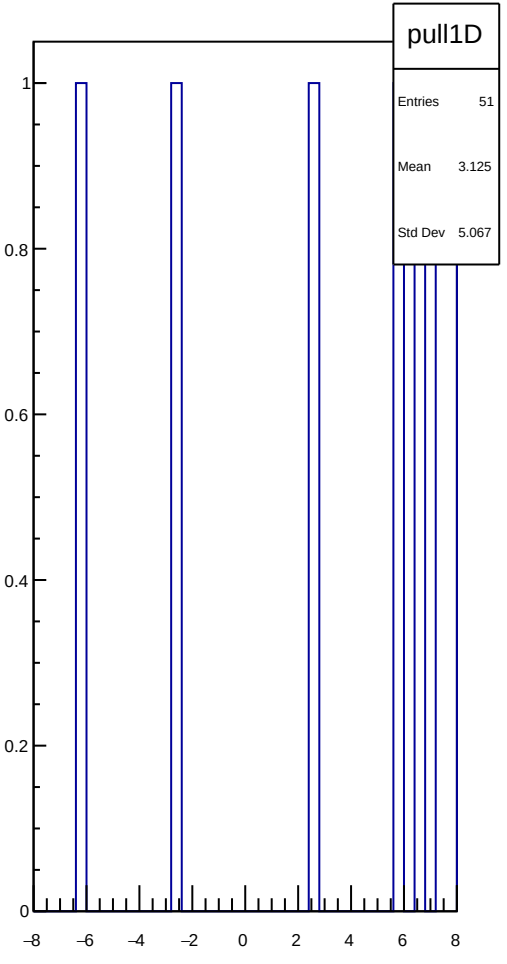
7977. 5
7977. 6

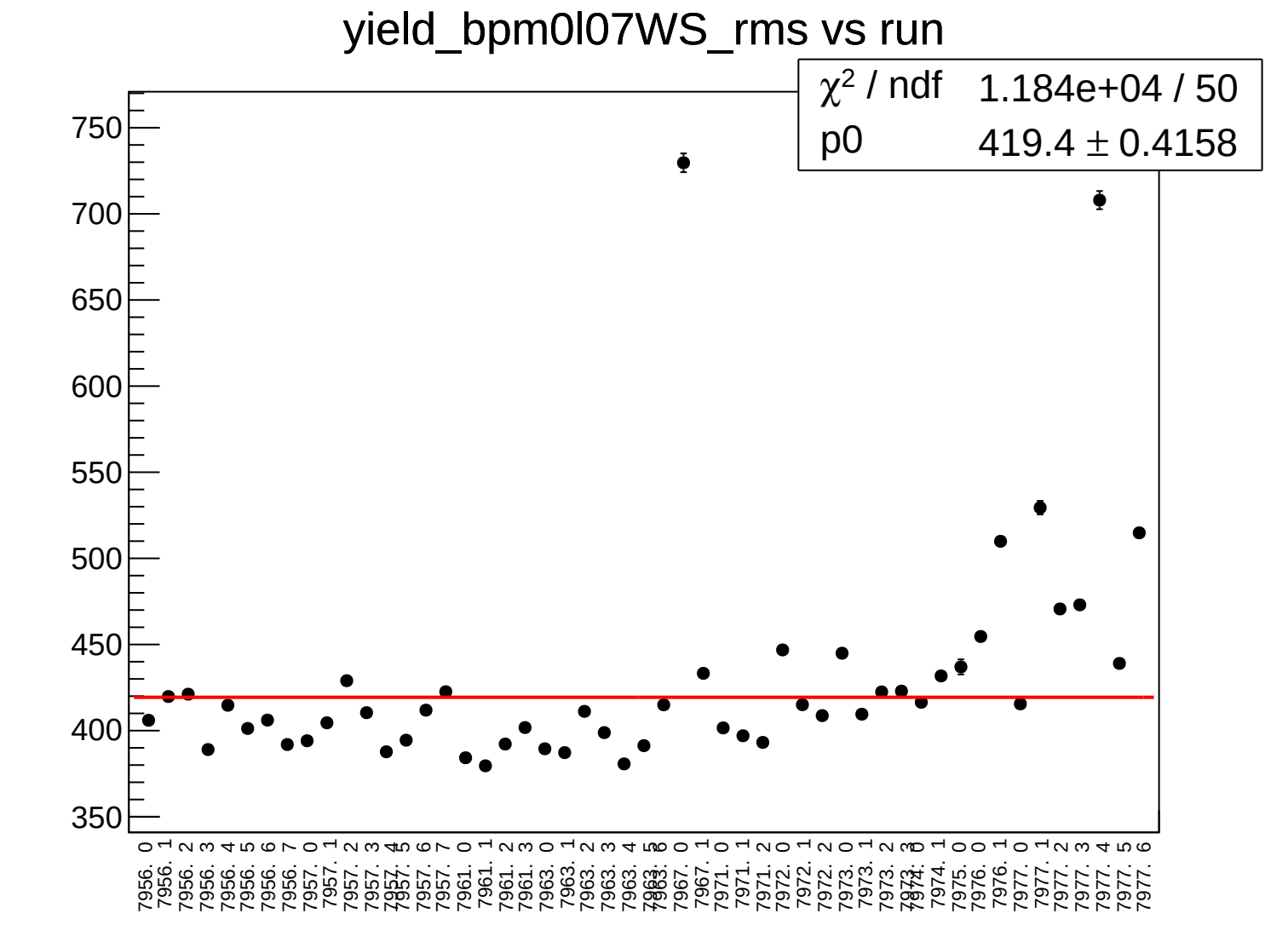

yield_bpm0l06WS_mean vs run
χ² / ndf 7317 / 50
p0 2388 ± 0.01952
pull
Entries 51
Mean −373.3
Std Dev 391.6

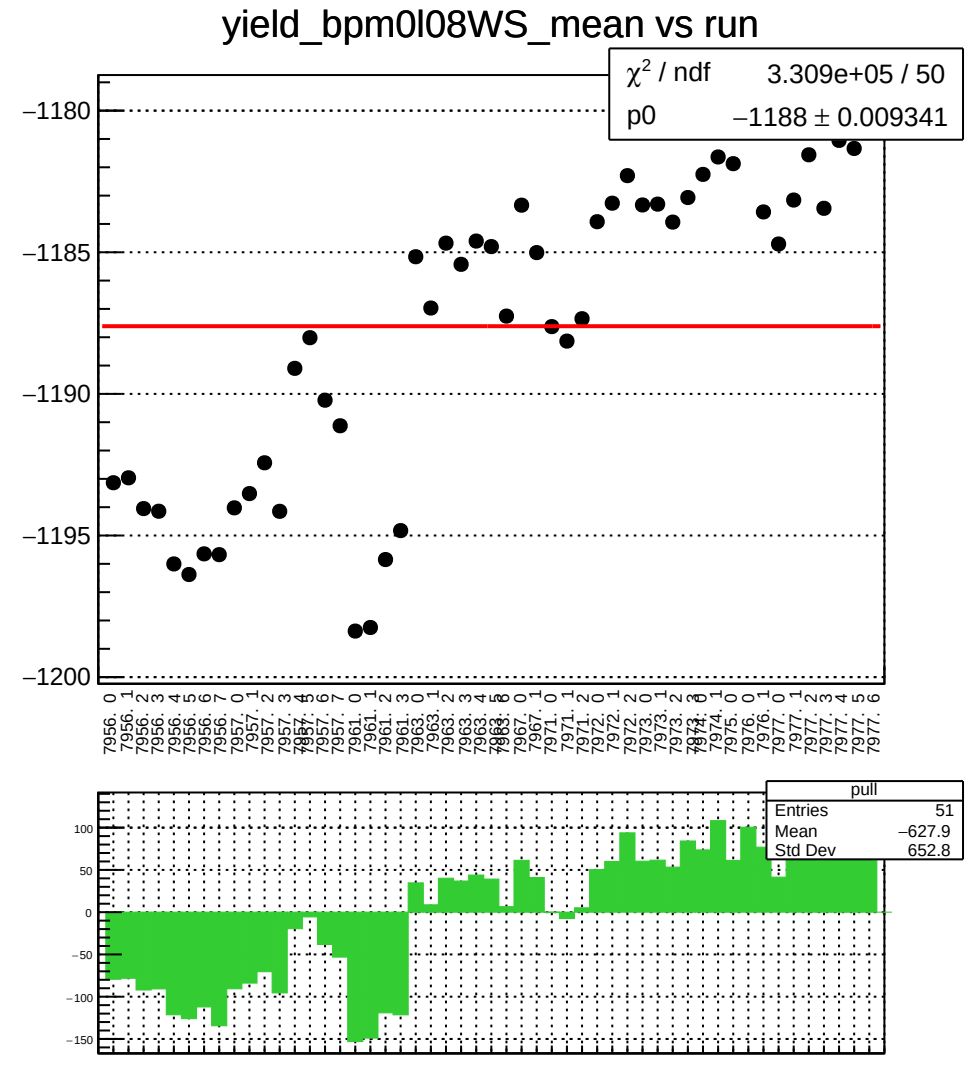

pull1D
Entries 51
Mean −0.2275
Std Dev 4.496

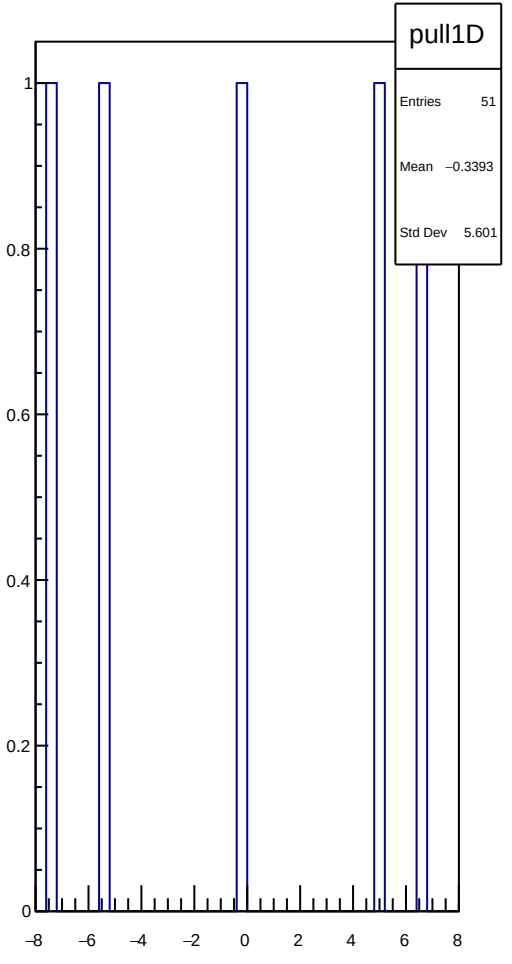

yield_bpm0l06WS_rms vs run
χ² / ndf 1009 / 50
p0 14 ± 0.01381
16
15.5
15
14.5
14
13.5
13
12.5
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
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

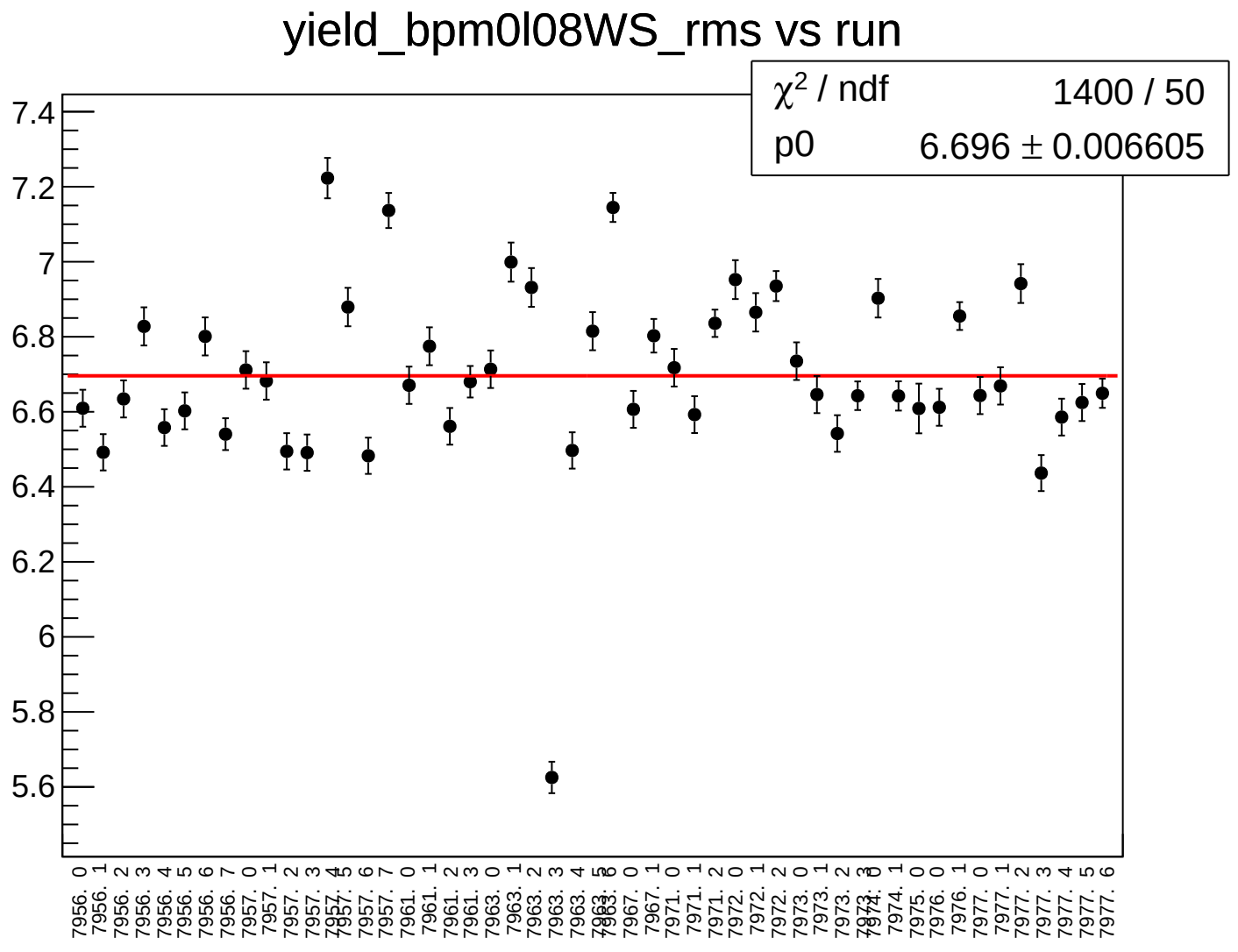

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 5.444e+05 / 50
p0 1.45e+05 ± 0.588
145
144
143
142
141
140
pull
Entries 51
Mean 75.04
Std Dev 48.04
0
−100
−200
−300
−400
−500
−600
−700

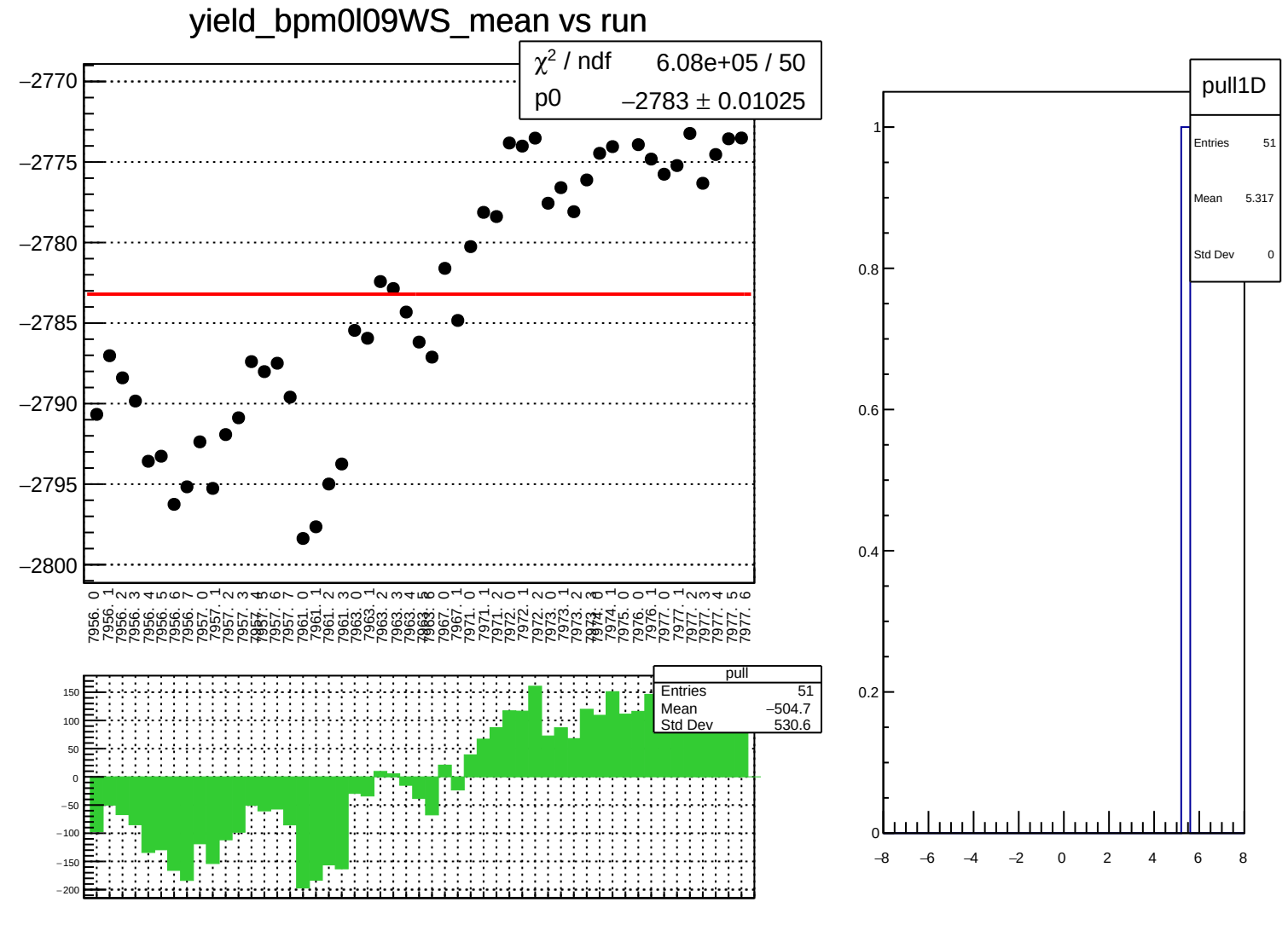

pull1D
Entries 51
Mean 3.125
Std Dev 5.067
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

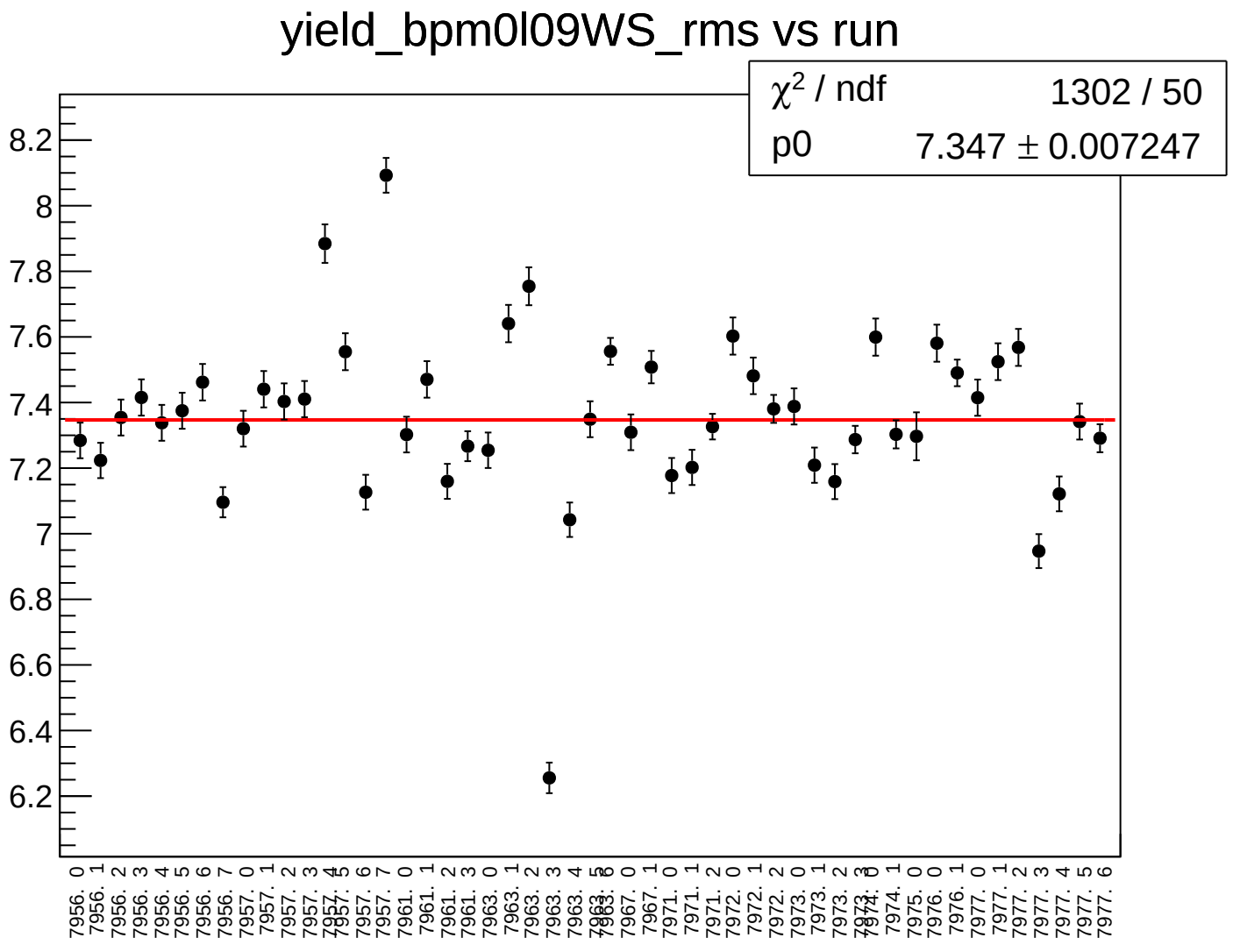

yield_bpm0l07WS_rms vs run
χ² / ndf 1.184e+04 / 50
p0 419.4 ± 0.4158
750
700
650
600
550
500
450
400
350
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

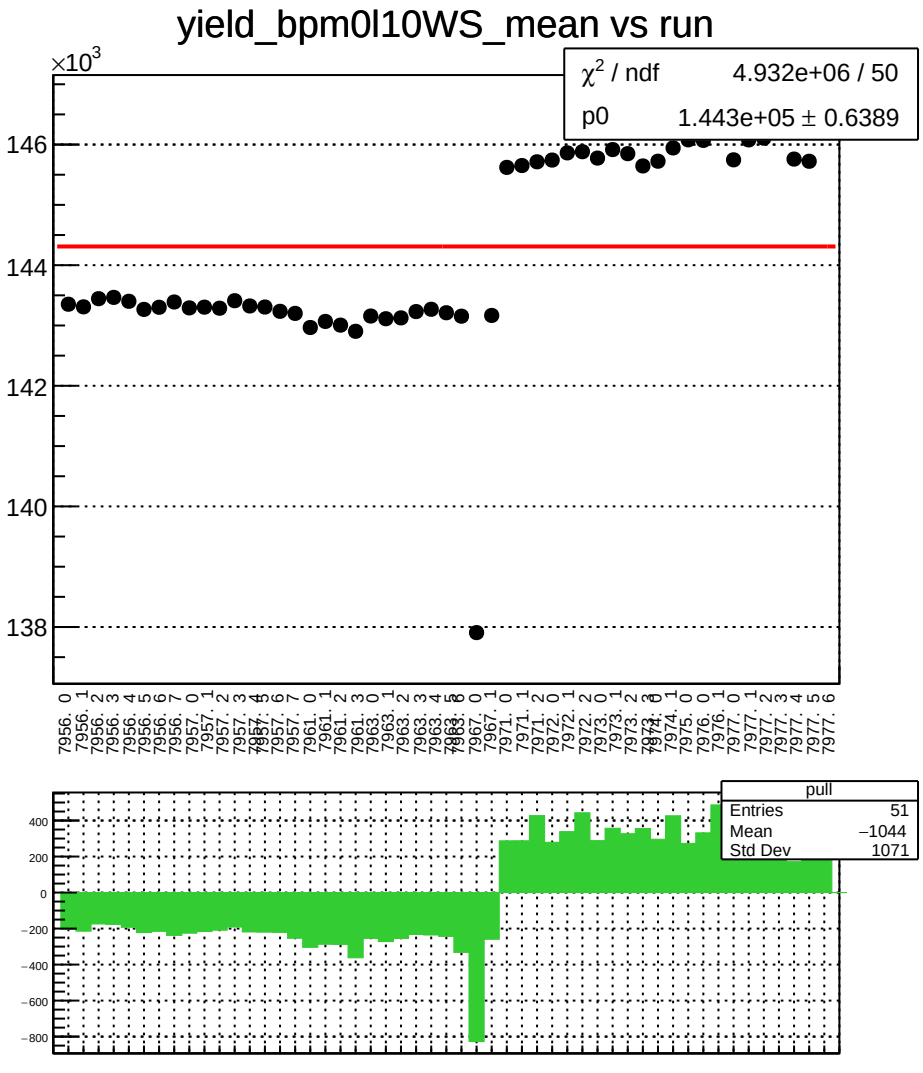

yield_bpm0l08WS_mean vs run
χ² / ndf 3.309e+05 / 50
p0 −1188 ± 0.009341
−1180
−1185
−1190
−1195
−1200
pull
Entries 51
Mean −627.9
Std Dev 652.8
100
50
0
−50
−100
−150

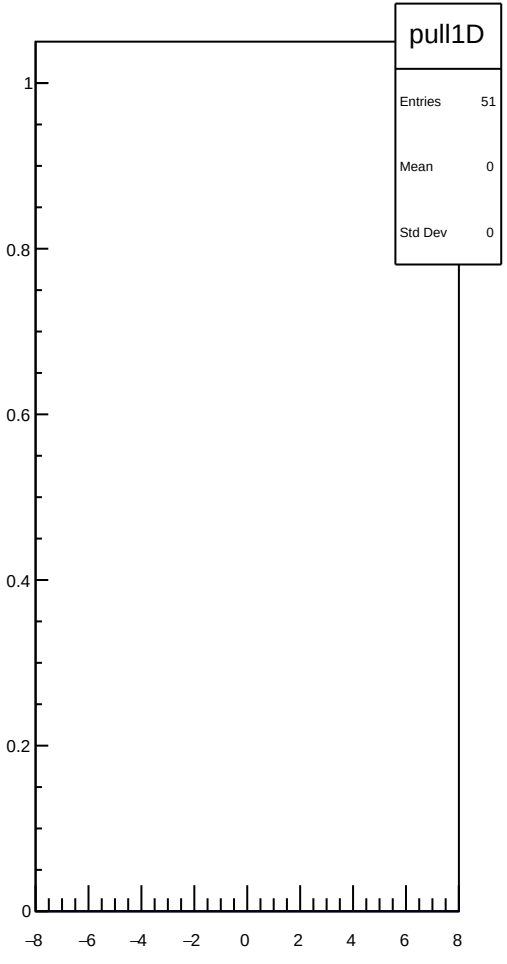

pull1D
Entries 51
Mean −0.3393
Std Dev 5.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

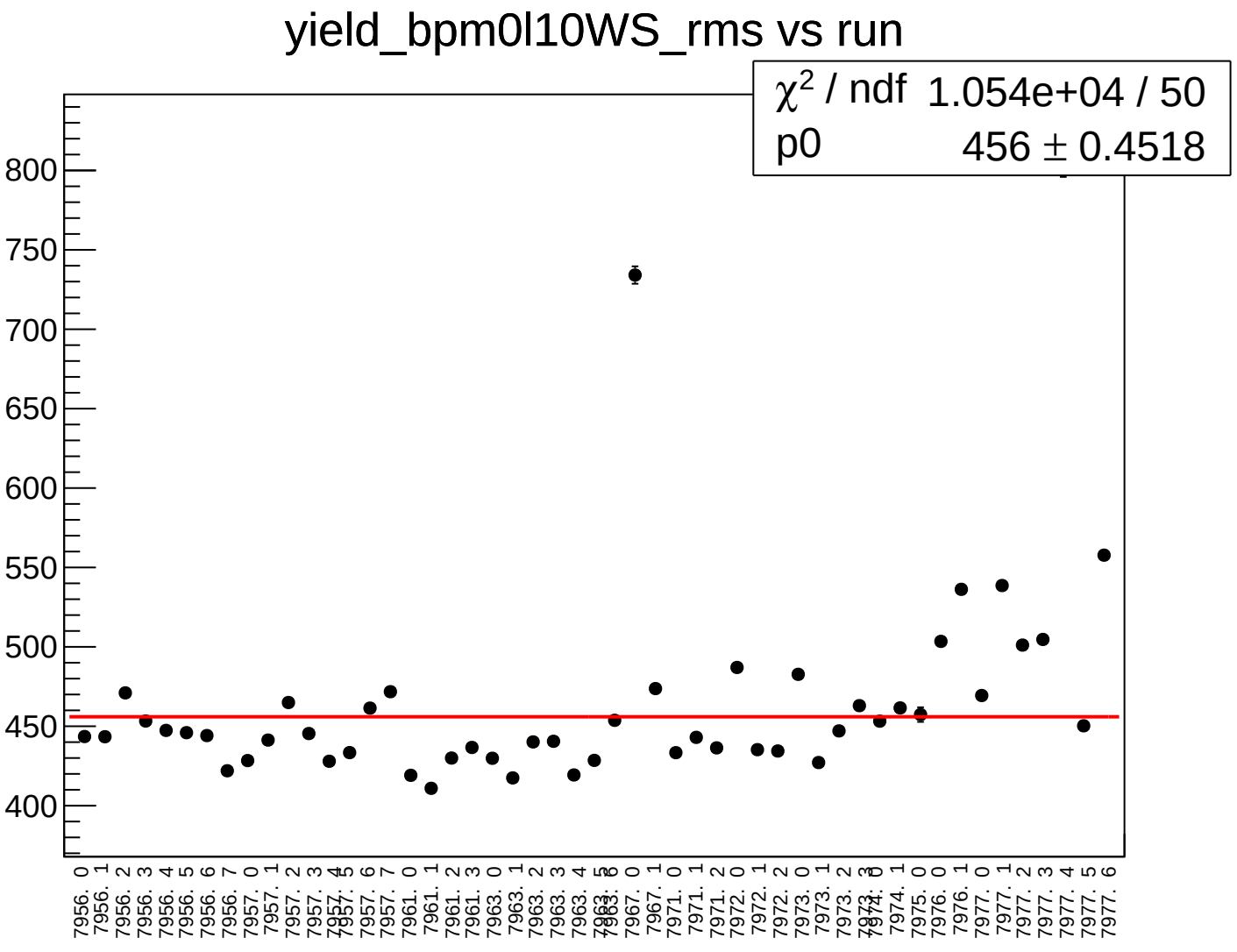

yield_bpm0l08WS_rms vs run
χ² / ndf 1400 / 50
p0 6.696 ± 0.006605
7.4
7.2
7
6.8
6.6
6.4
6.2
6
5.8
5.6
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
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

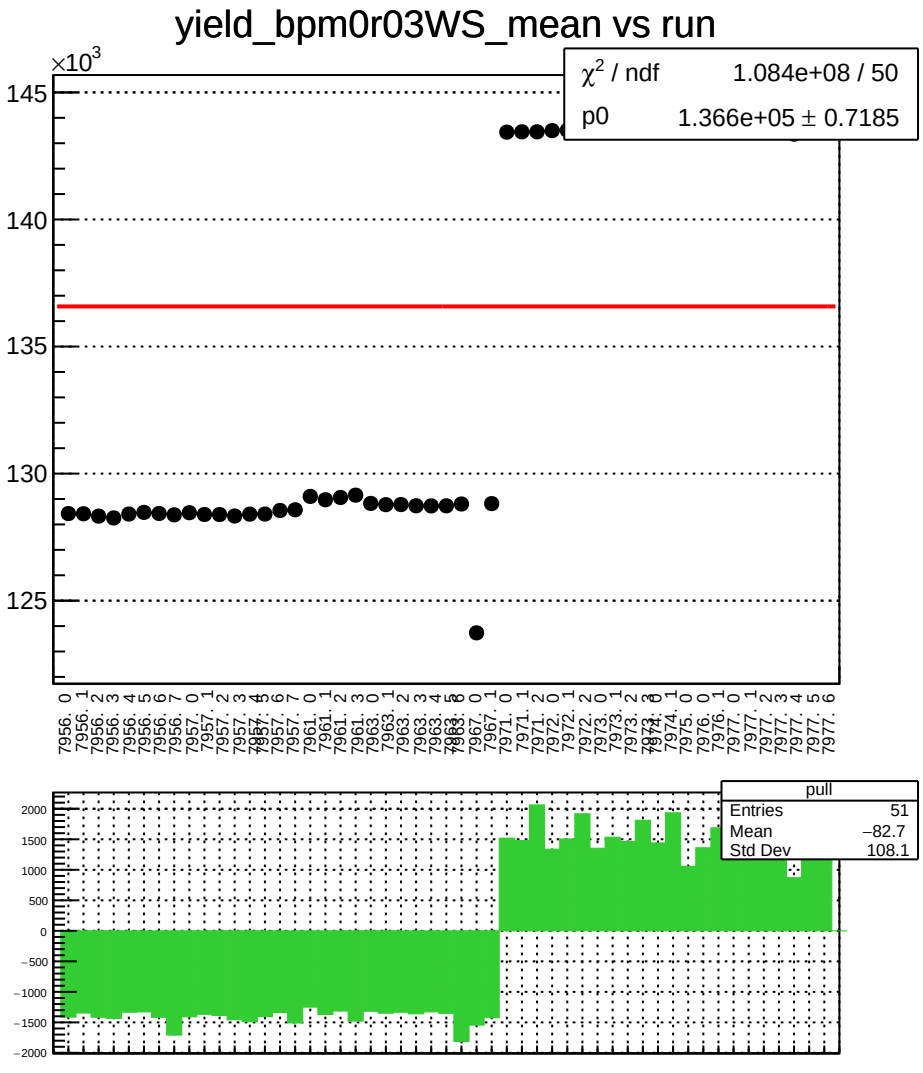

yield_bpm0l09WS_mean vs run
χ² / ndf 6.08e+05 / 50
p0 −2783 ± 0.01025
−2770
−2775
−2780
−2785
−2790
−2795
−2800
pull
Entries 51
Mean −504.7
Std Dev 530.6
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 51
Mean 5.317
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

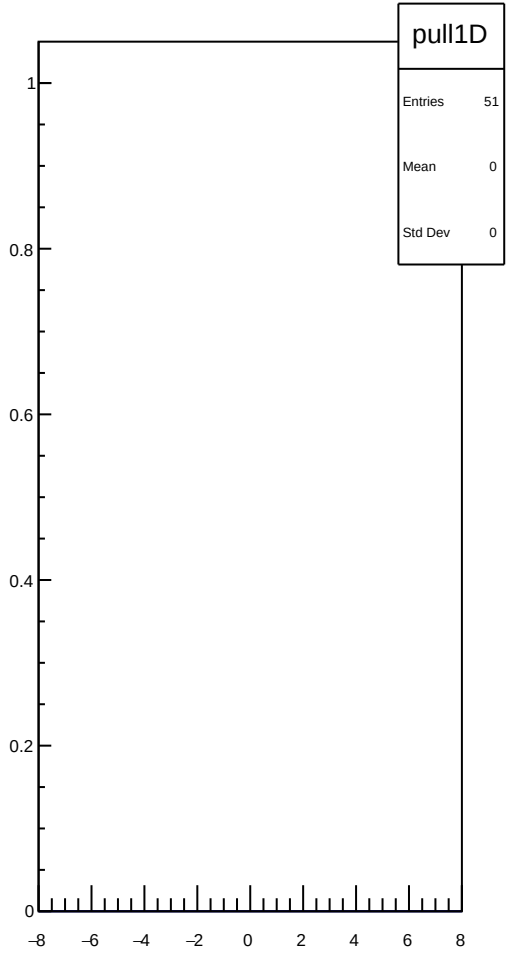

yield_bpm0l09WS_rms vs run
χ² / ndf 1302 / 50
p0 7.347 ± 0.007247
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

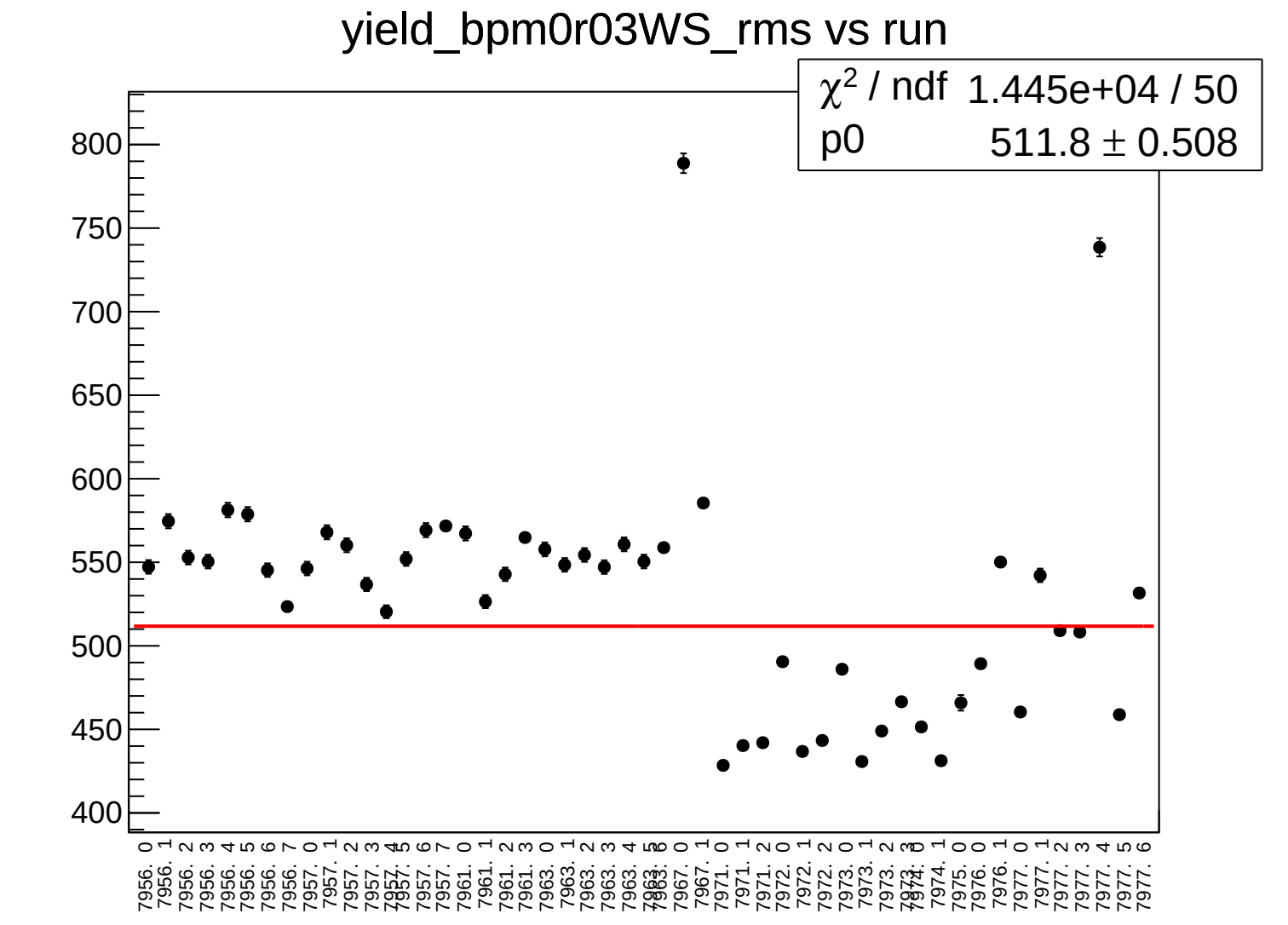

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.932e+06 / 50
p0 1.443e+05 ± 0.6389
146
144
142
140
138
pull
Entries 51
Mean −1044
Std Dev 1071
400
200
0
−200
−400
−600
−800

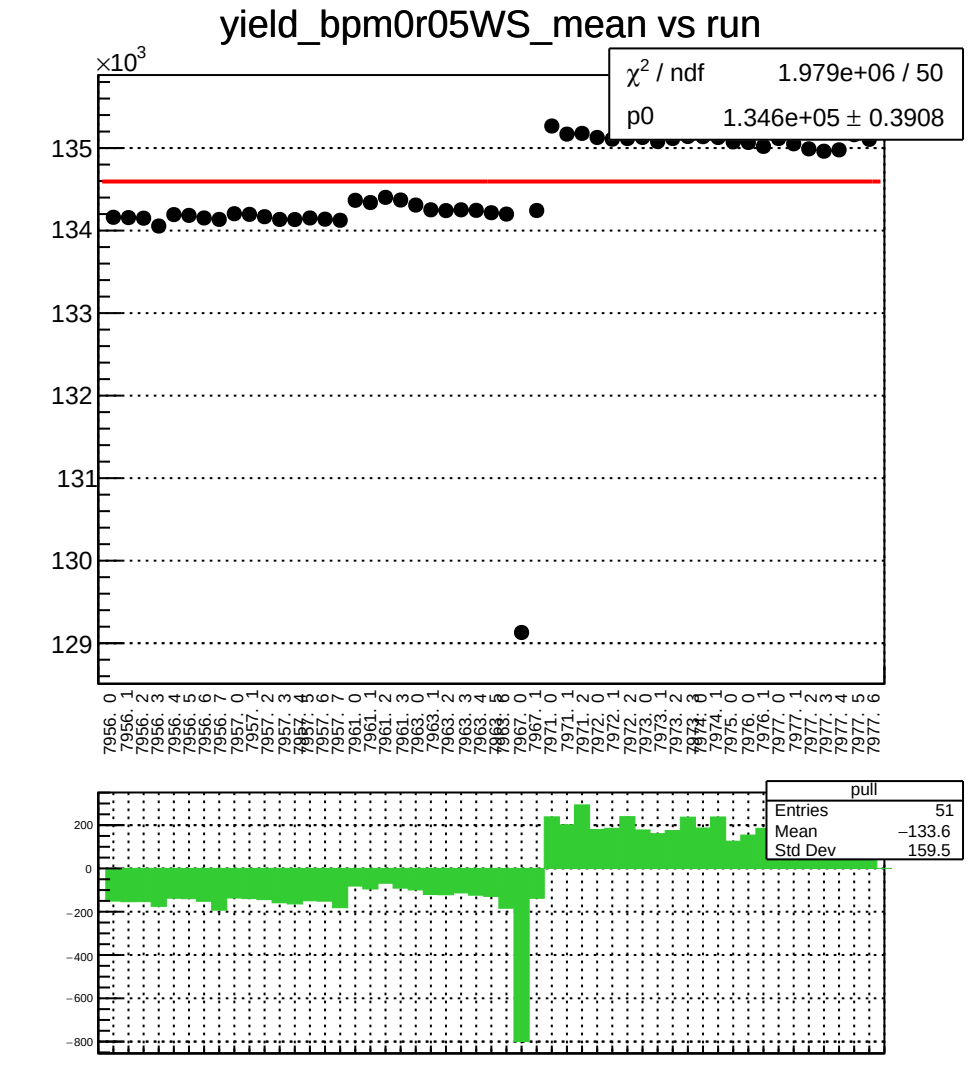

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

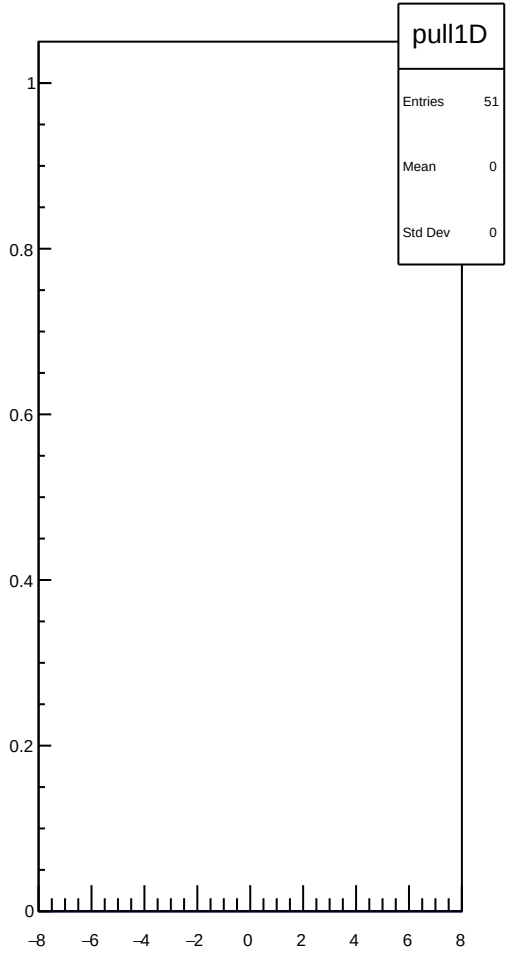

yield_bpm0l10WS_rms vs run
χ² / ndf 1.054e+04 / 50
p0 456 ± 0.4518
800
750
700
650
600
550
500
450
400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

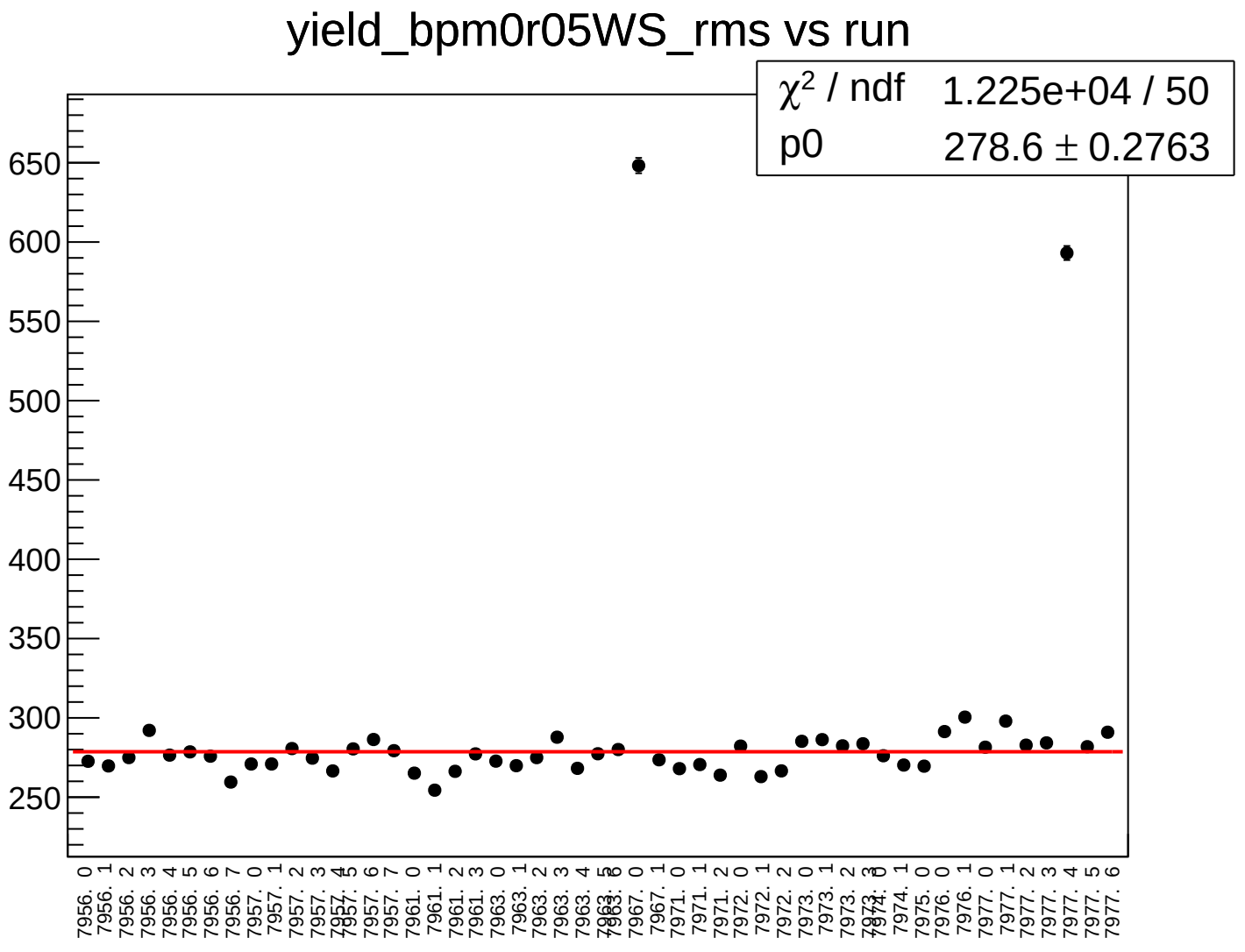

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.084e+08 / 50
p0 1.366e+05 ± 0.7185
145
140
135
130
125
pull
Entries 51
Mean −82.7
Std Dev 108.1
2000
1500
1000
500
0
−500
−1000
−1500
−2000

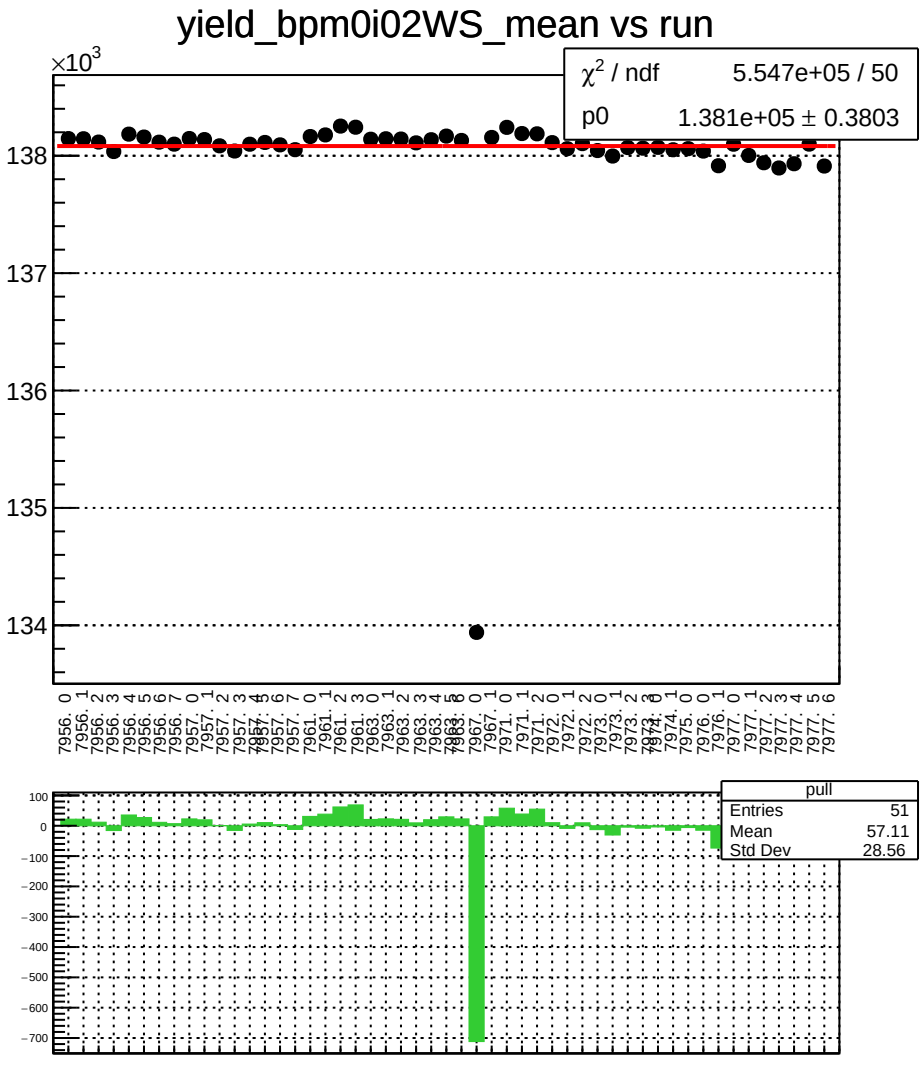

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

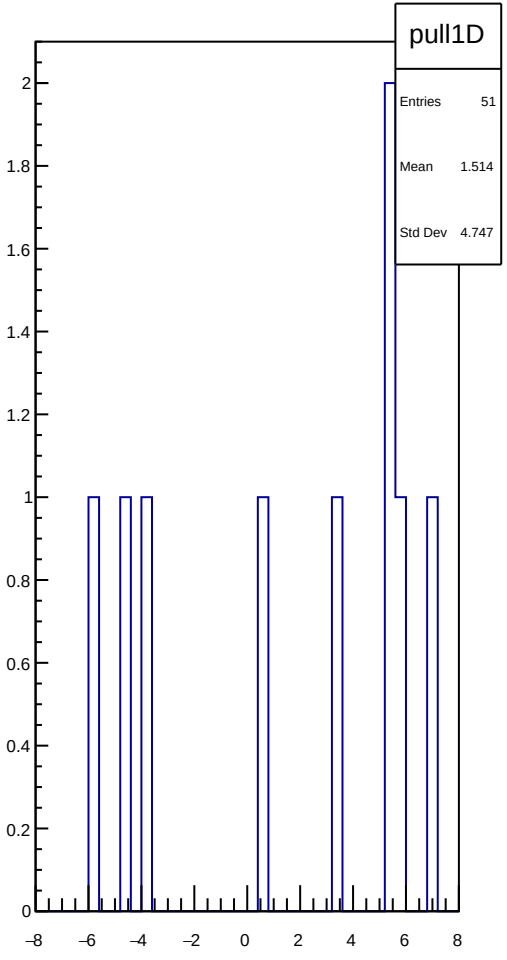

yield_bpm0r03WS_rms vs run
χ² / ndf 1.445e+04 / 50
p0 511.8 ± 0.508
800
750
700
650
600
550
500
450
400
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

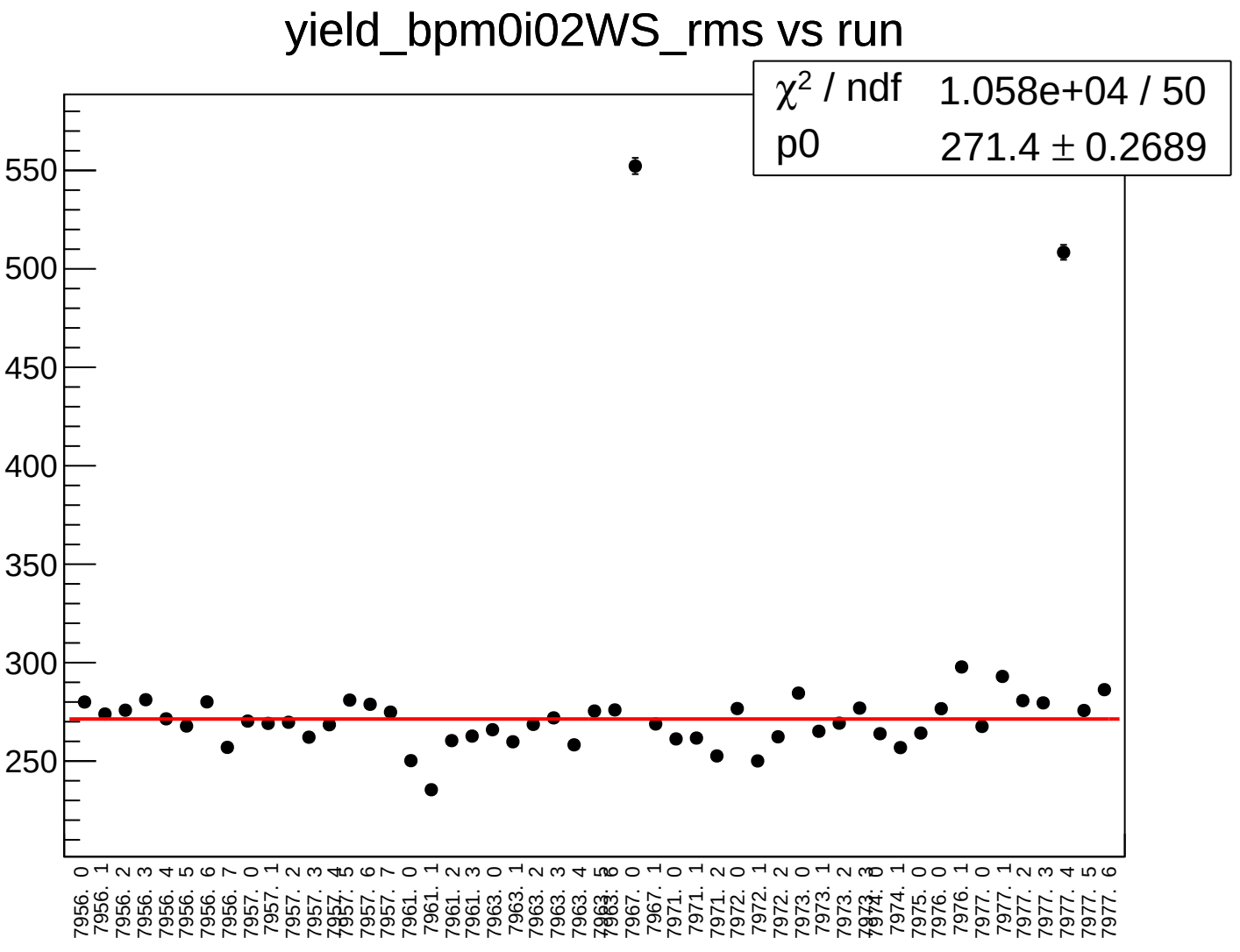

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.979e+06 / 50
p0 1.346e+05 ± 0.3908
135
134
133
132
131
130
129
pull
Entries 51
Mean −133.6
Std Dev 159.5
200
0
−200
−400
−600
−800


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_bpm0r05WS_rms vs run
χ² / ndf 1.225e+04 / 50
p0 278.6 ± 0.2763
650
600
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_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.547e+05 / 50
p0 1.381e+05 ± 0.3803
138
137
136
135
134
pull
Entries 51
Mean 57.11
Std Dev 28.56
100
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 51
Mean 1.514
Std Dev 4.747
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_bpm0i02WS_rms vs run
χ² / ndf 1.058e+04 / 50
p0 271.4 ± 0.2689
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
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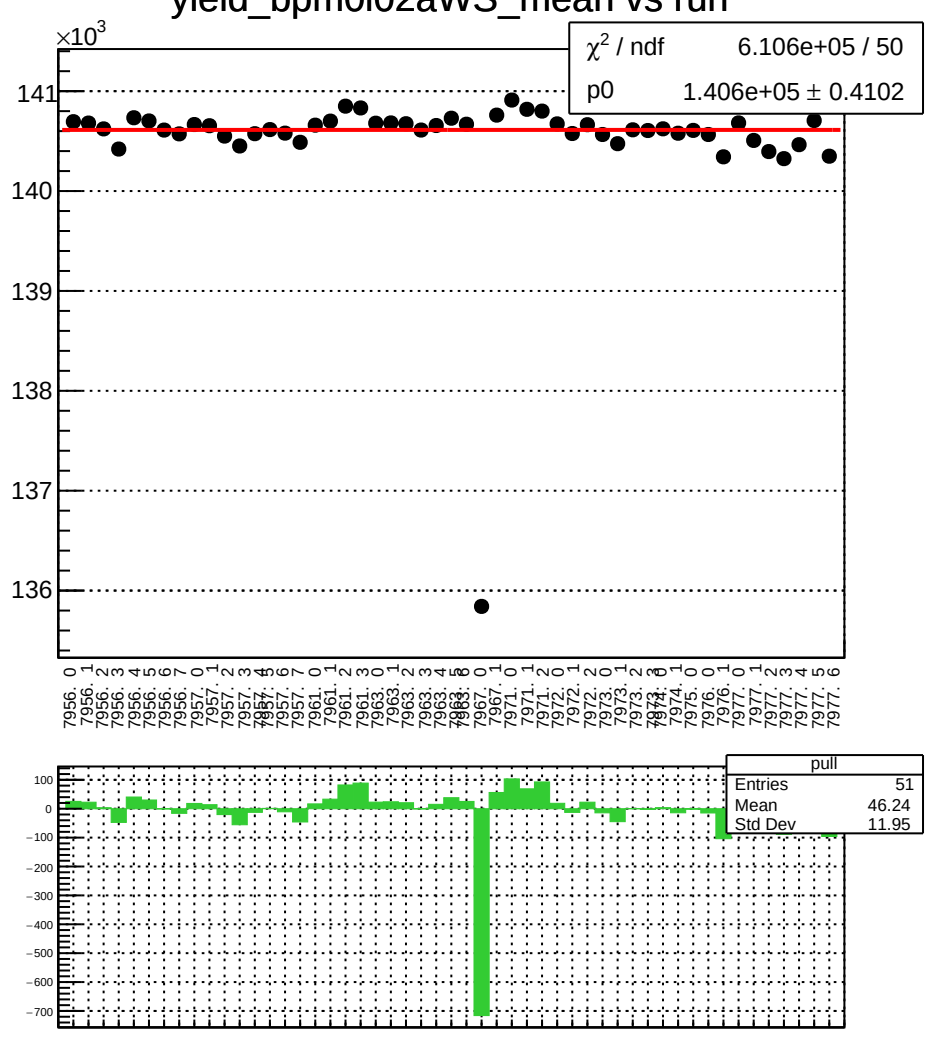
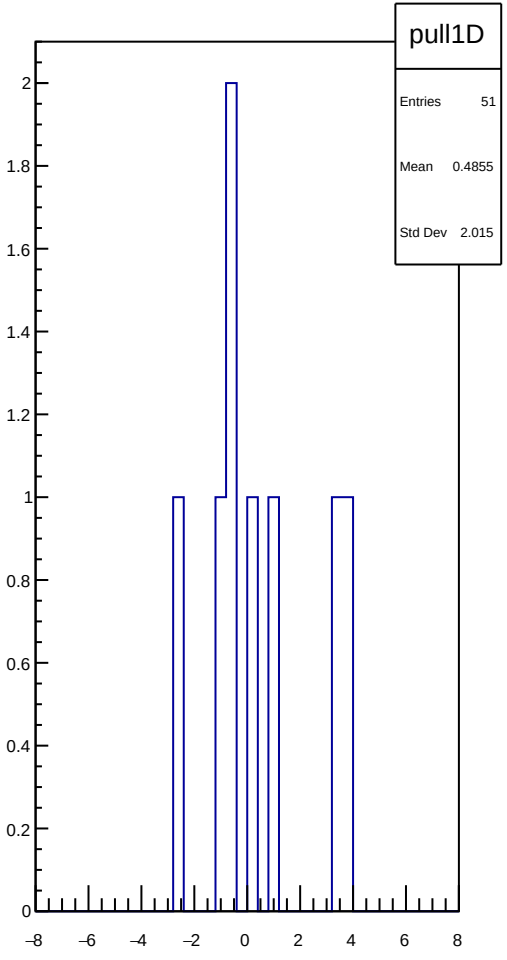
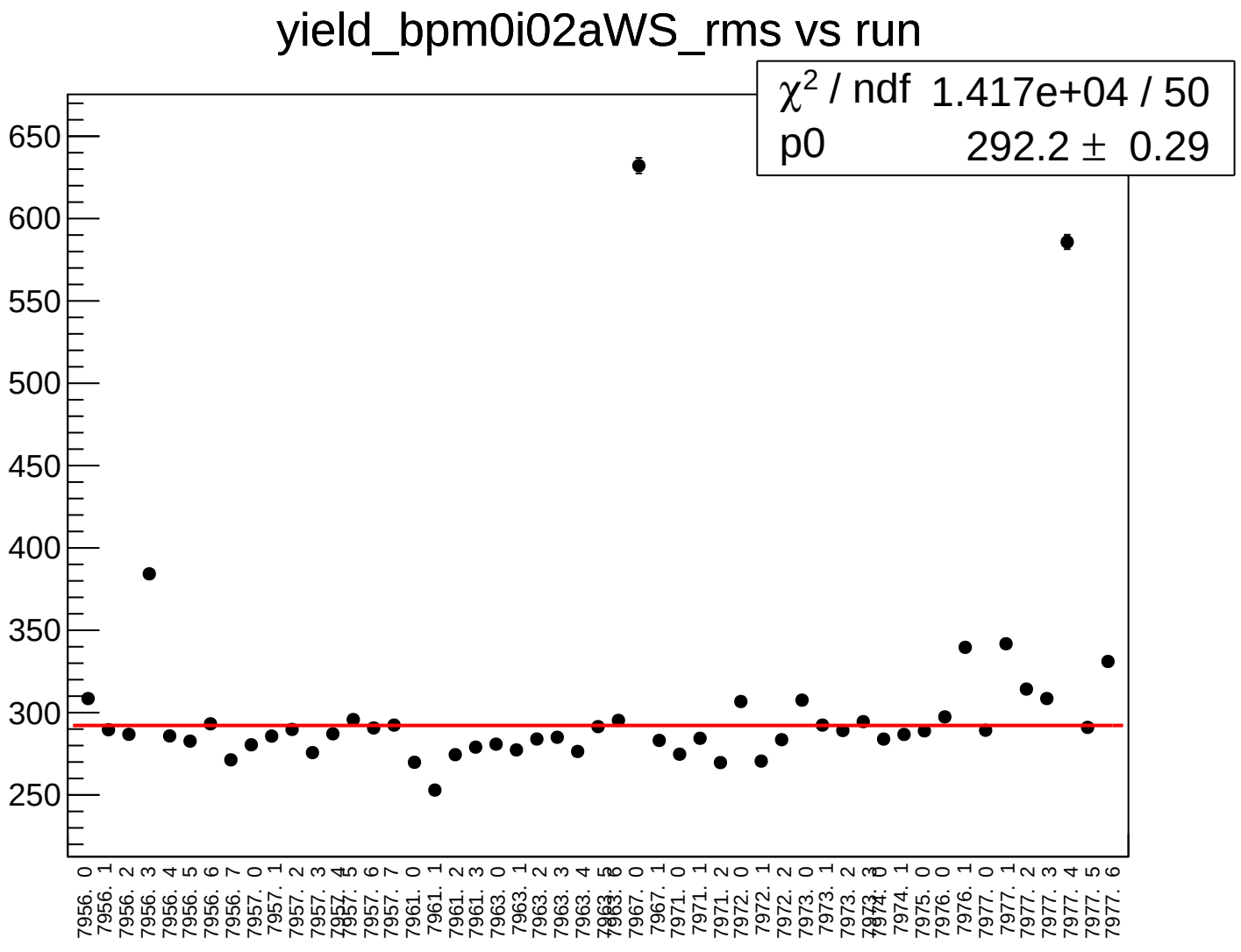
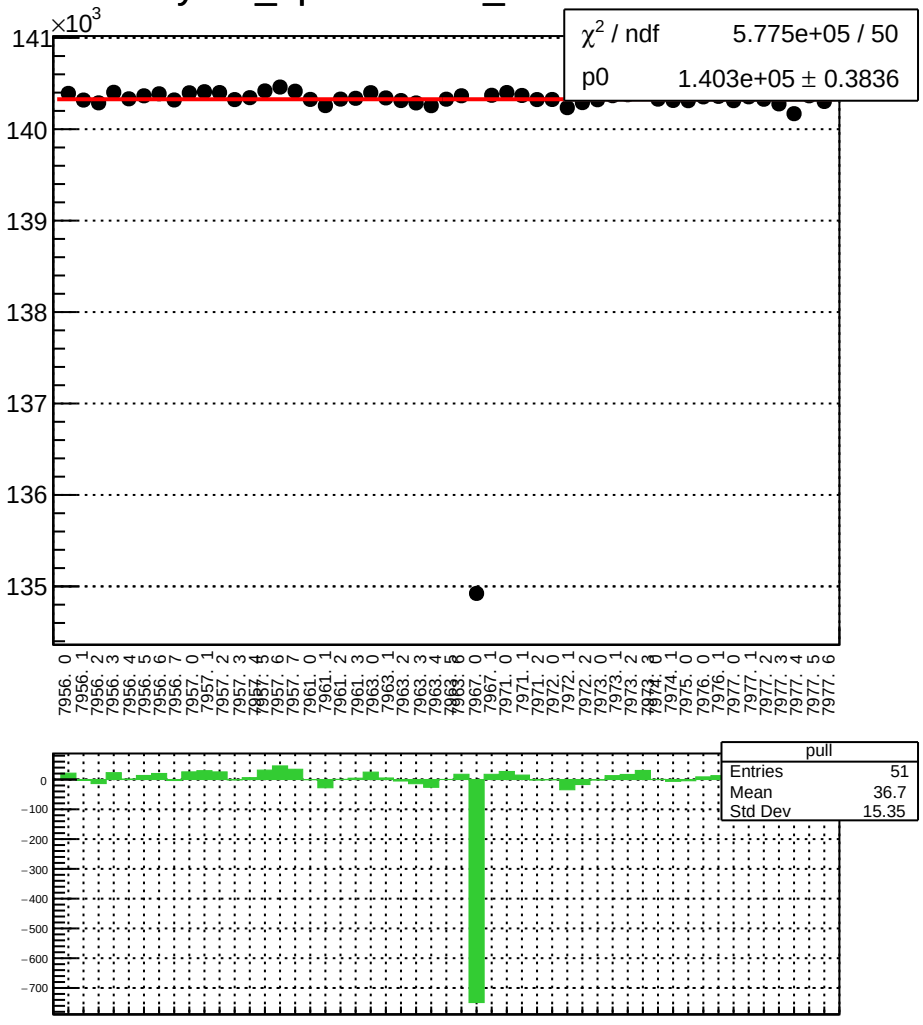
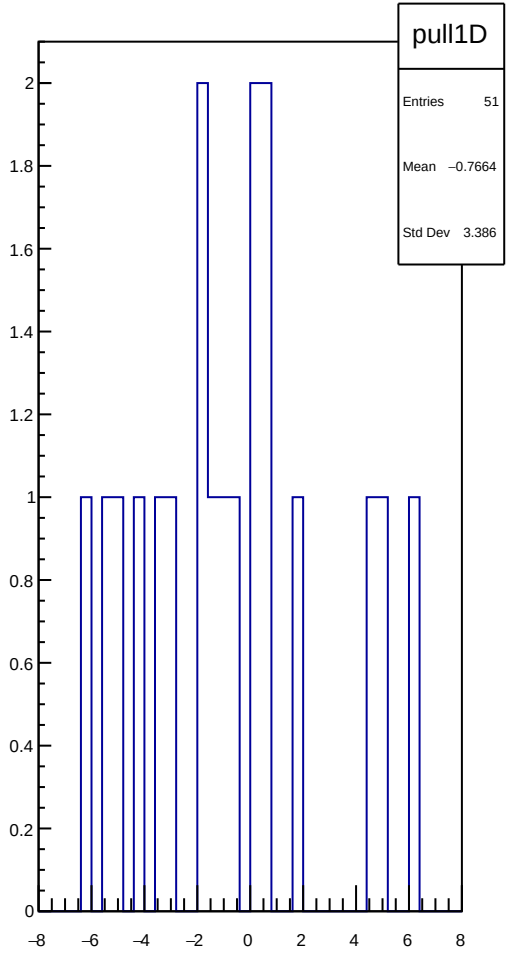
7977. 5
7977. 6

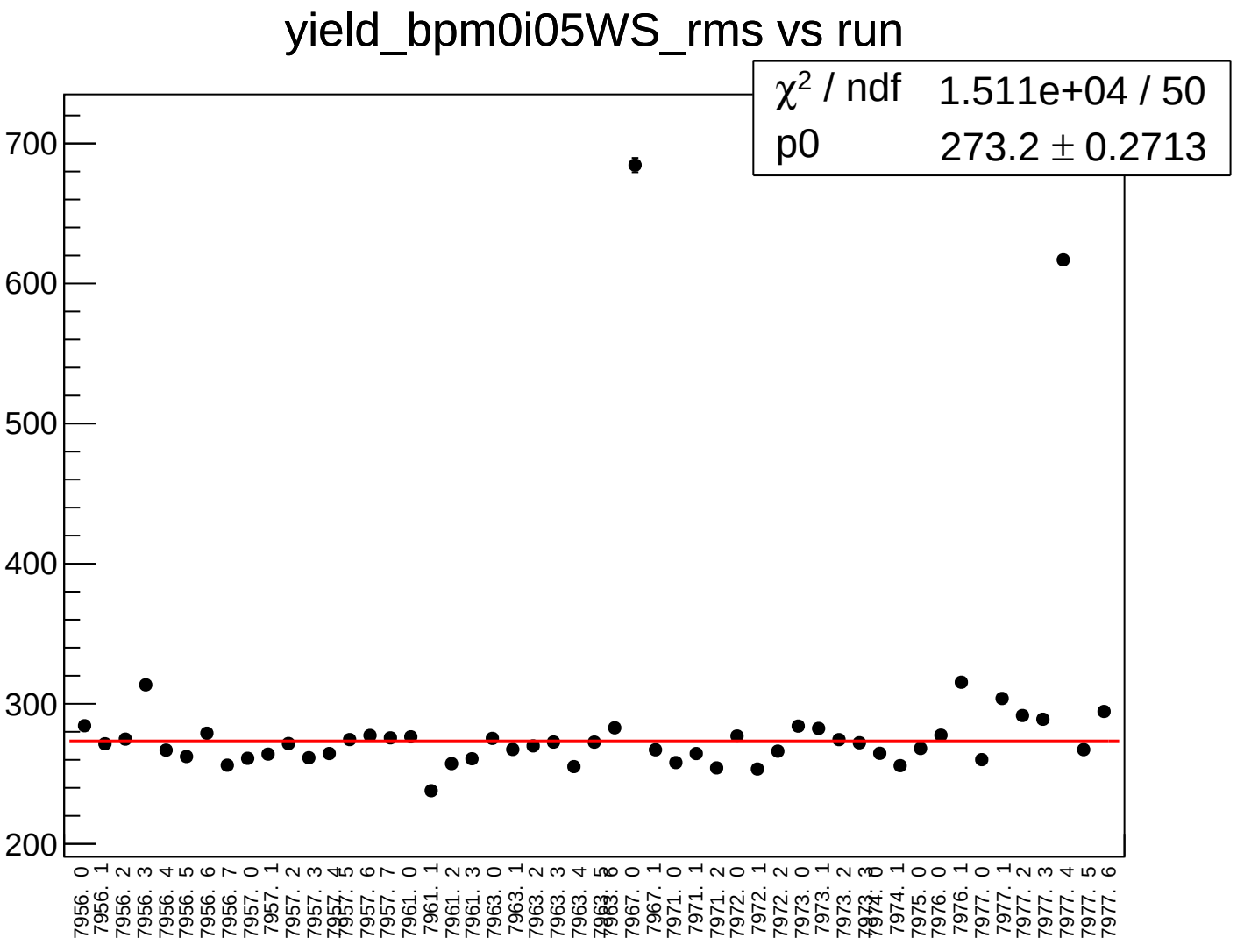

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 6.106e+05 / 50
p0 1.406e+05 ± 0.4102
141
140
139
138
137
136
pull
Entries 51
Mean 46.24
Std Dev 11.95
100
0
−100
−200
−300
−400
−500
−600
−700

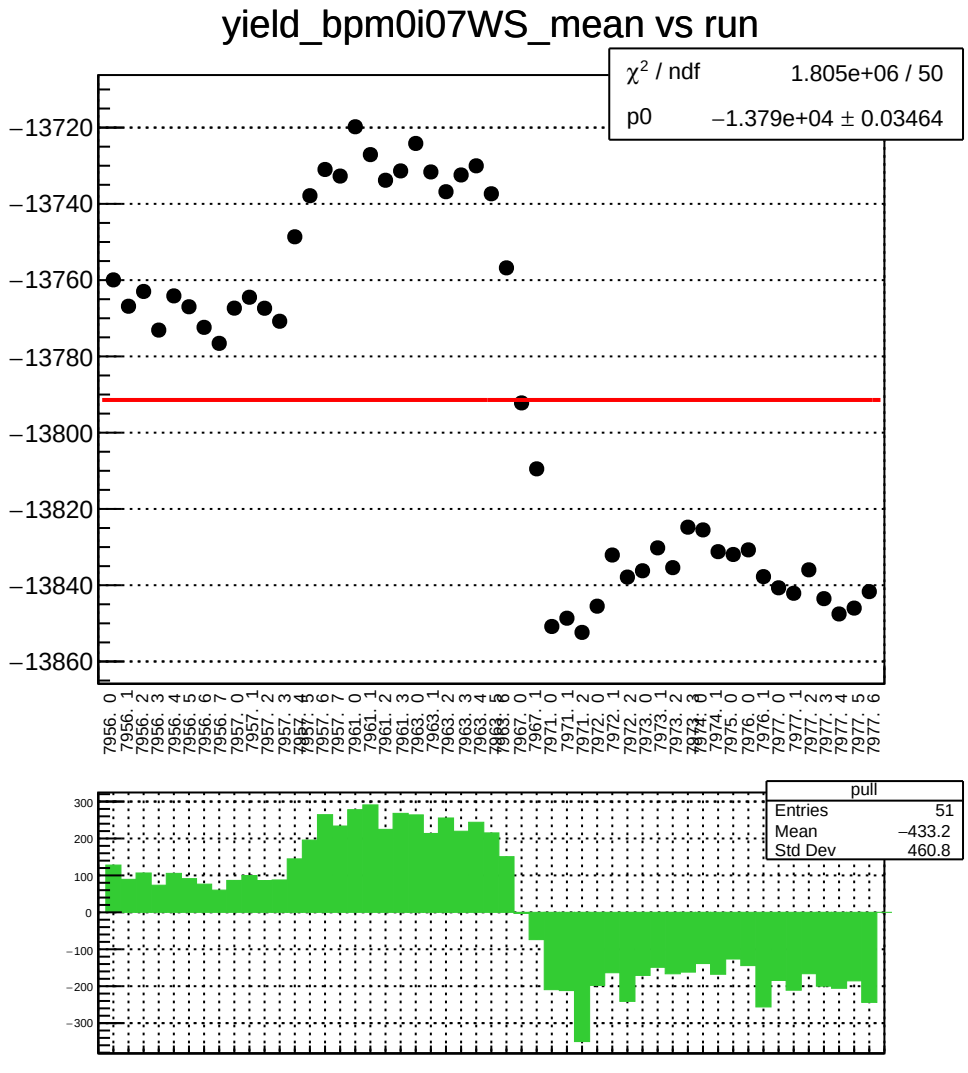

pull1D
Entries 51
Mean 0.4855
Std Dev 2.015
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

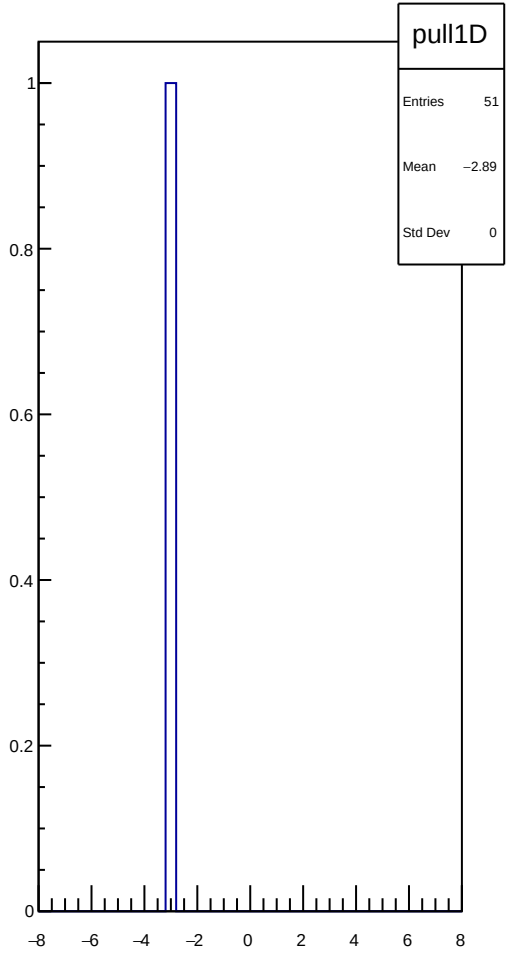

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.417e+04 / 50
p0 292.2 ± 0.29
650
600
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

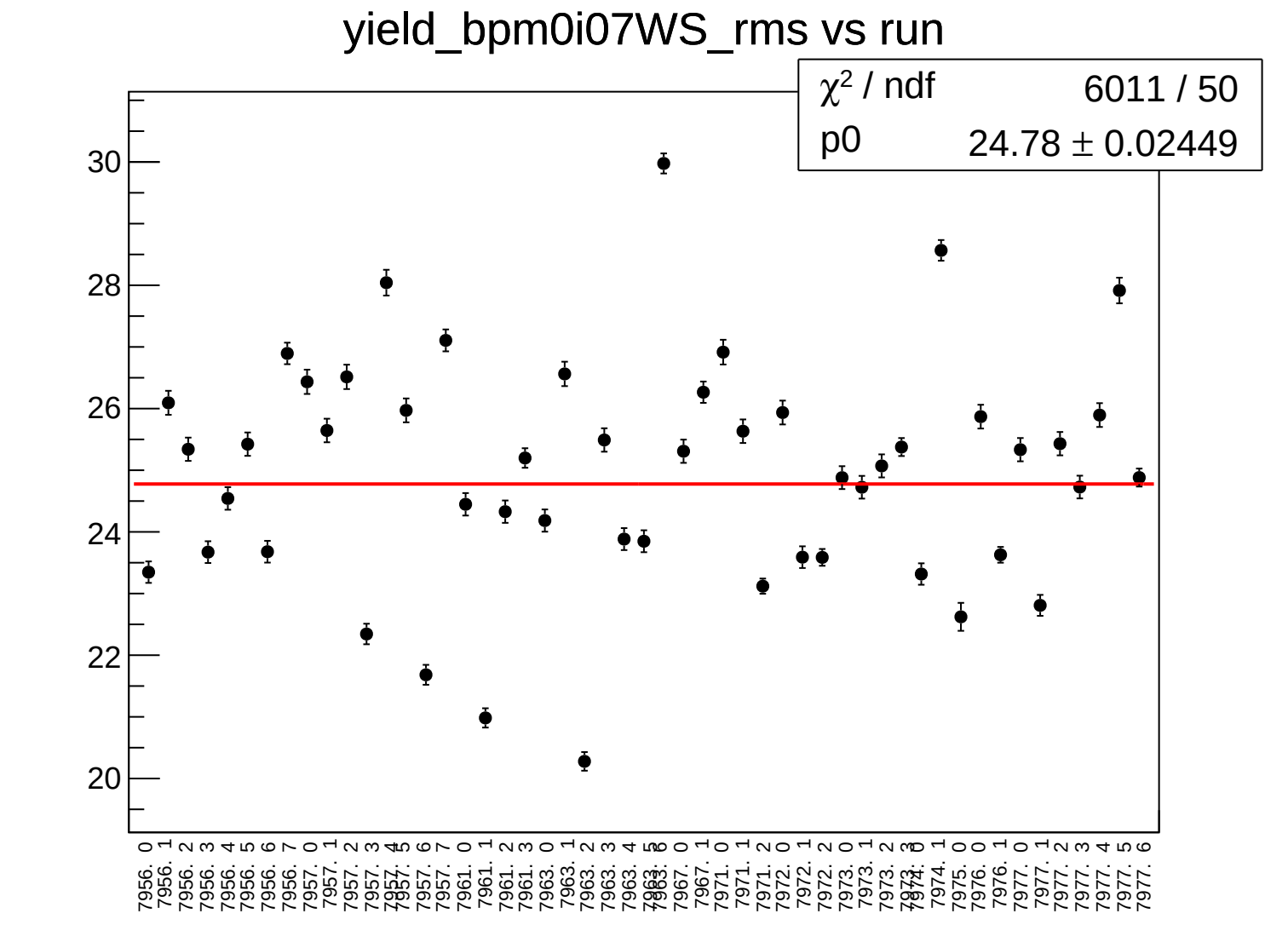

yield_bpm0i05WS_mean vs run
×10^3
141
140
139
138
137
136
135
χ² / ndf 5.775e+05 / 50
p0 1.403e+05 ± 0.3836
pull
Entries 51
Mean 36.7
Std Dev 15.35
0
−100
−200
−300
−400
−500
−600
−700

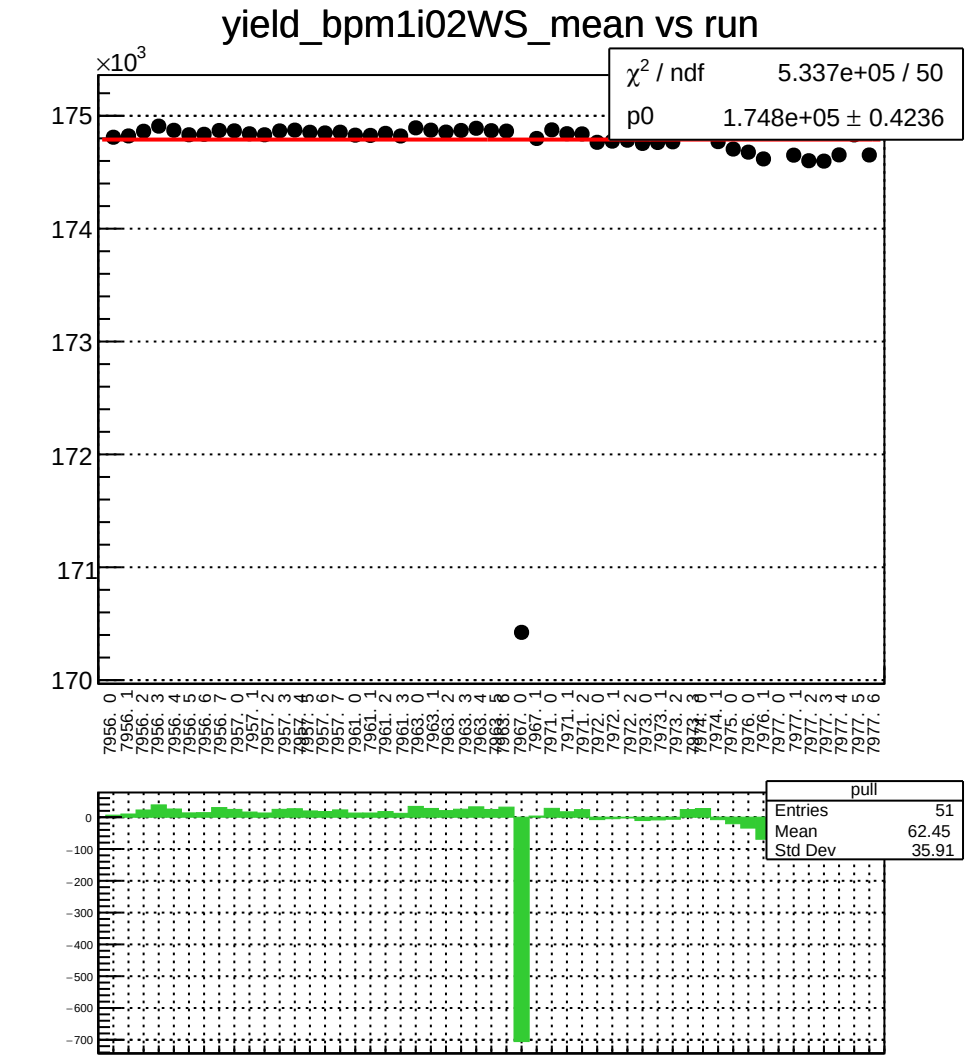

pull1D
Entries 51
Mean −0.7664
Std Dev 3.386
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

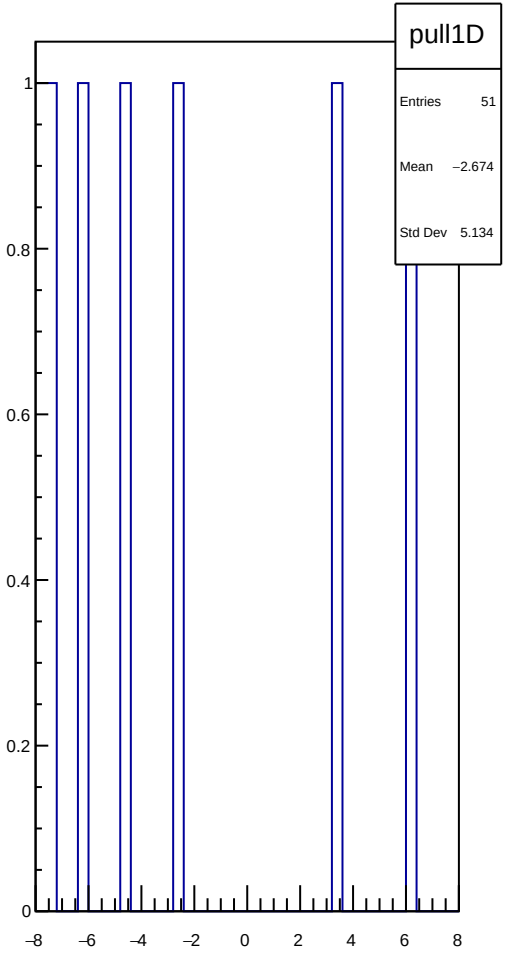

yield_bpm0i05WS_rms vs run
χ² / ndf 1.511e+04 / 50
p0 273.2 ± 0.2713
700
600
500
400
300
200
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
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

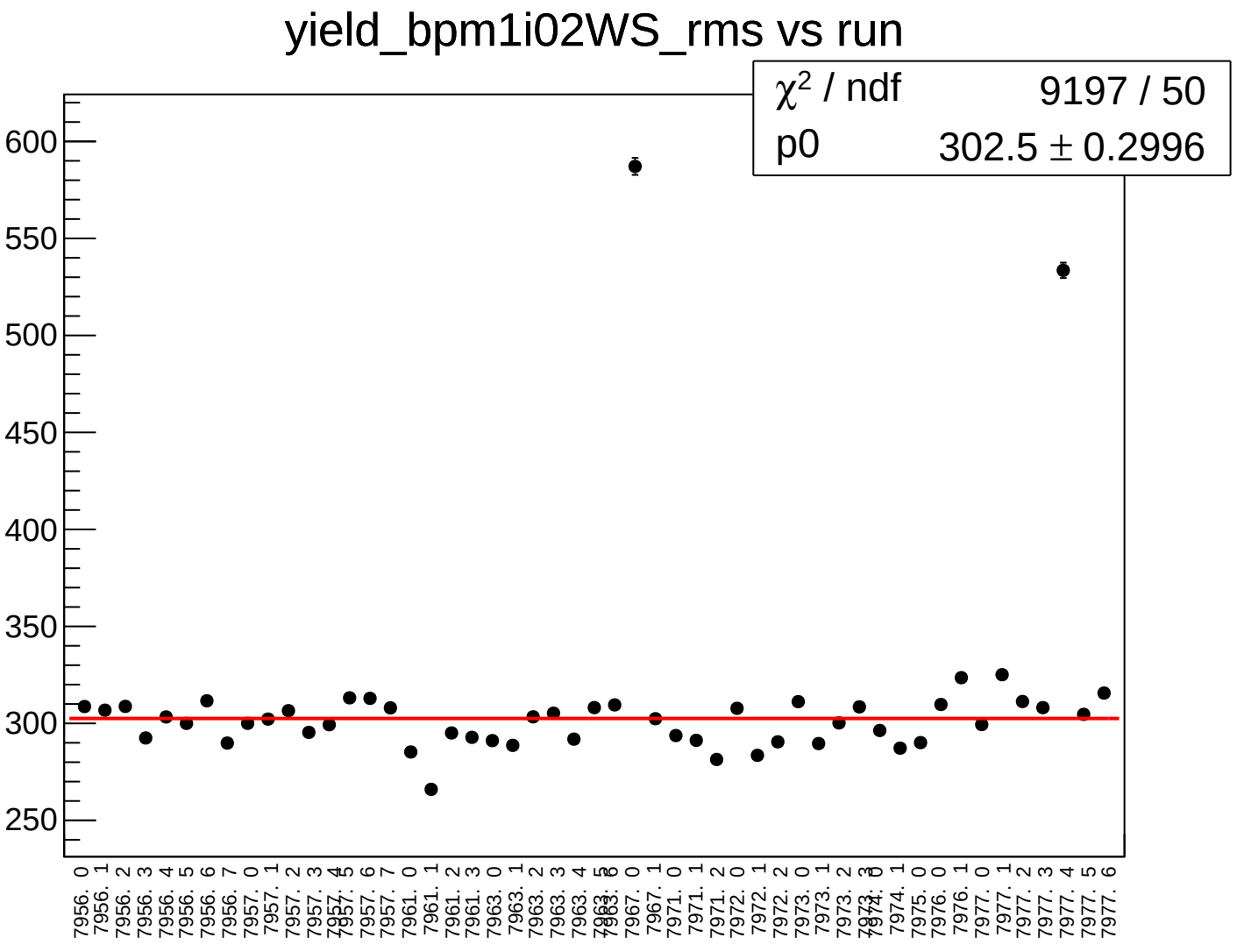

yield_bpm0i07WS_mean vs run
χ² / ndf 1.805e+06 / 50
p0 −1.379e+04 ± 0.03464
−13720
−13740
−13760
−13780
−13800
−13820
−13840
−13860
pull
Entries 51
Mean −433.2
Std Dev 460.8
300
200
100
0
−100
−200
−300

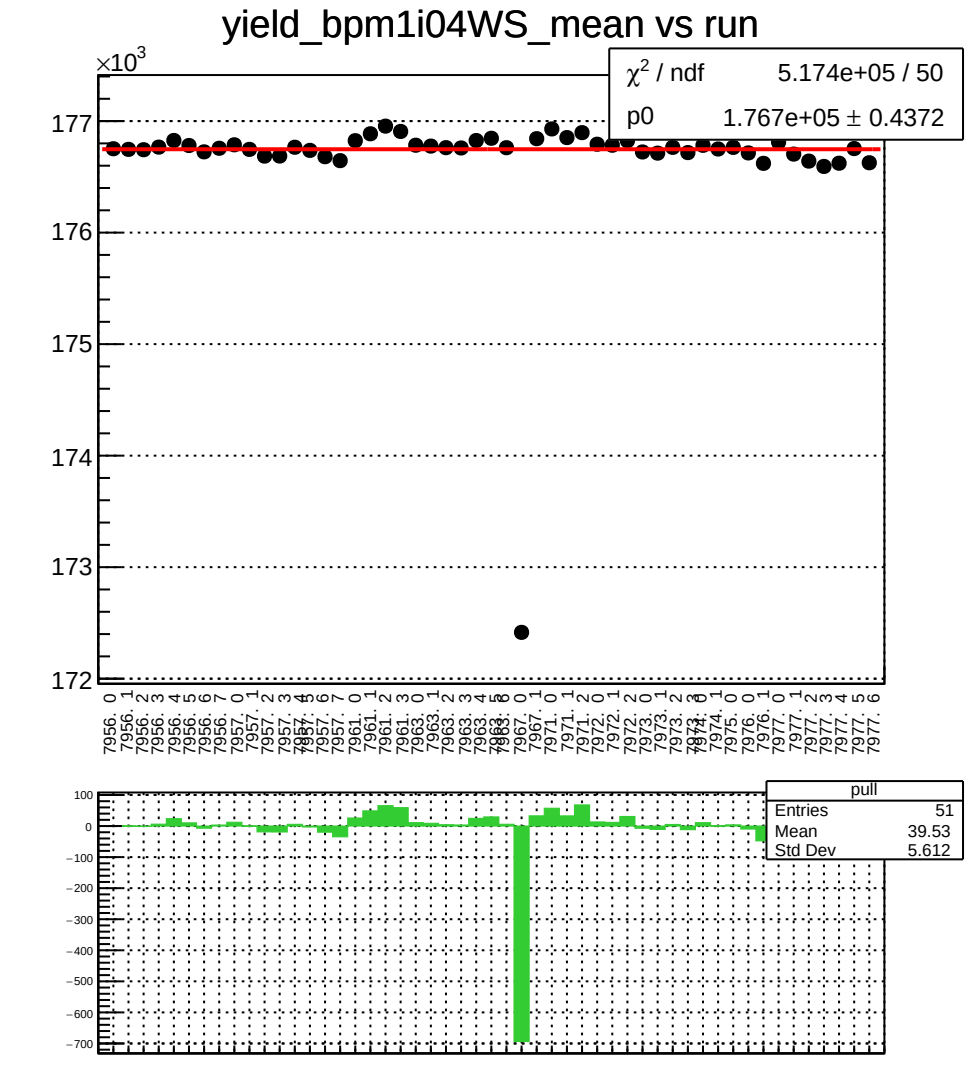

pull1D
Entries 51
Mean −2.89
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

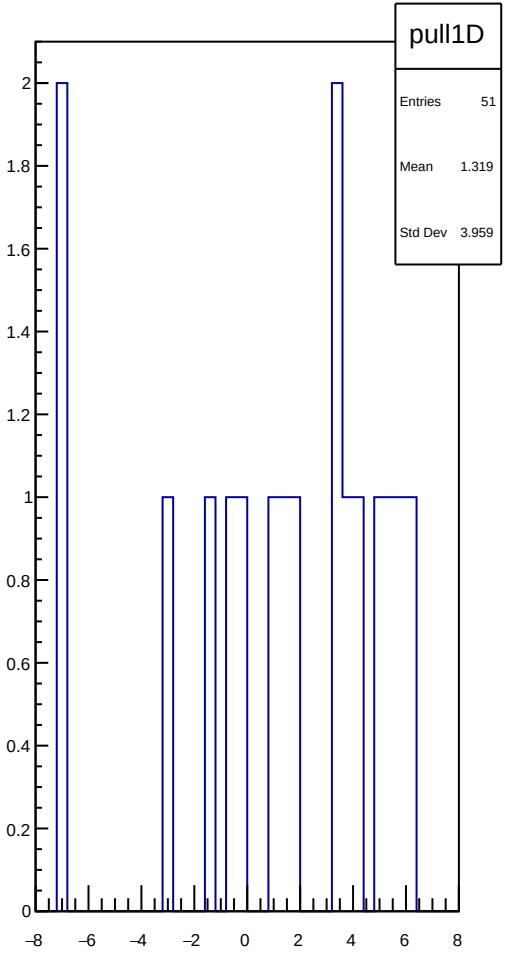

yield_bpm0i07WS_rms vs run
χ² / ndf 6011 / 50
p0 24.78 ± 0.02449
30
28
26
24
22
20
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

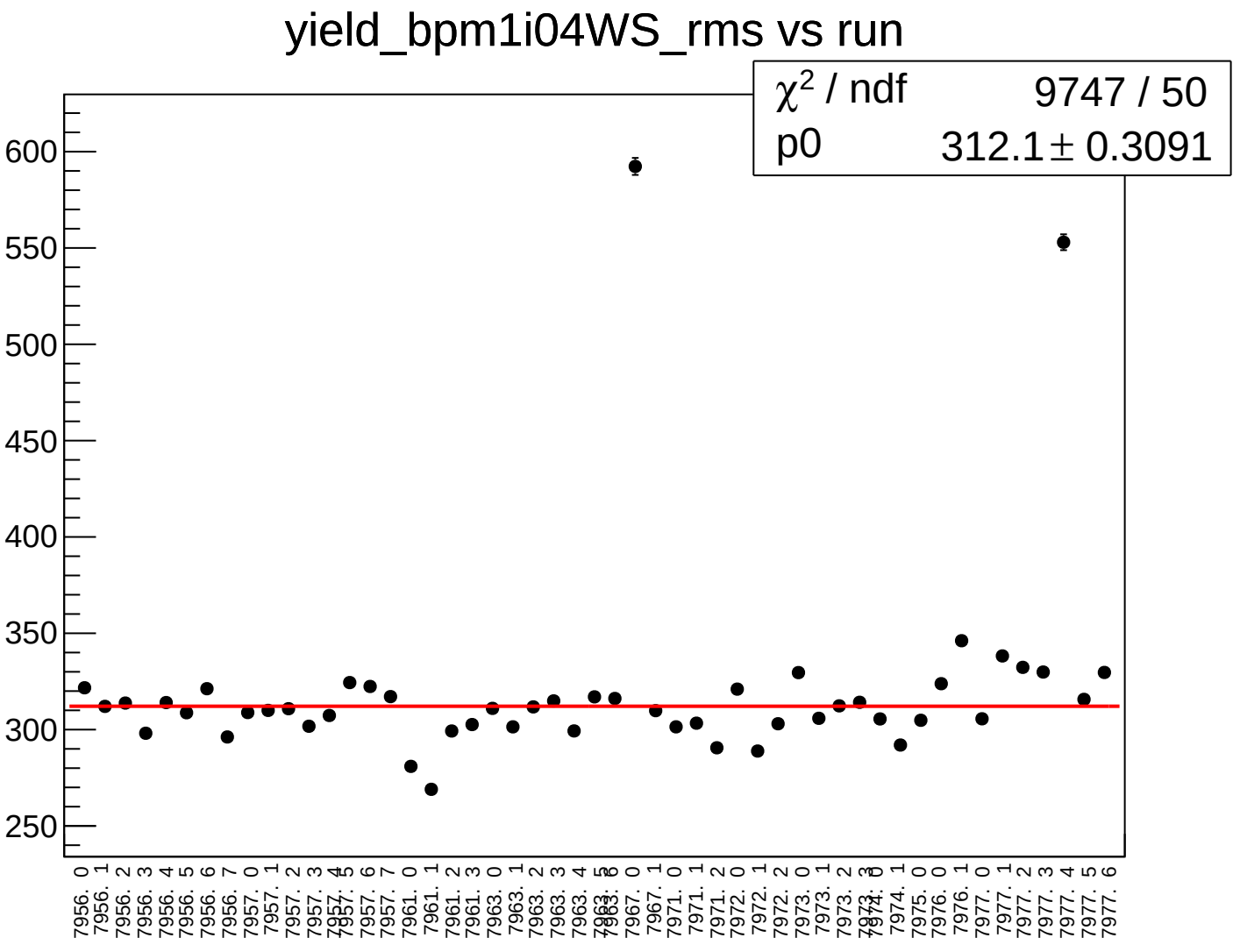

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.337e+05 / 50
p0 1.748e+05 ± 0.4236
175
174
173
172
171
170
pull
Entries 51
Mean 62.45
Std Dev 35.91
0
−100
−200
−300
−400
−500
−600
−700

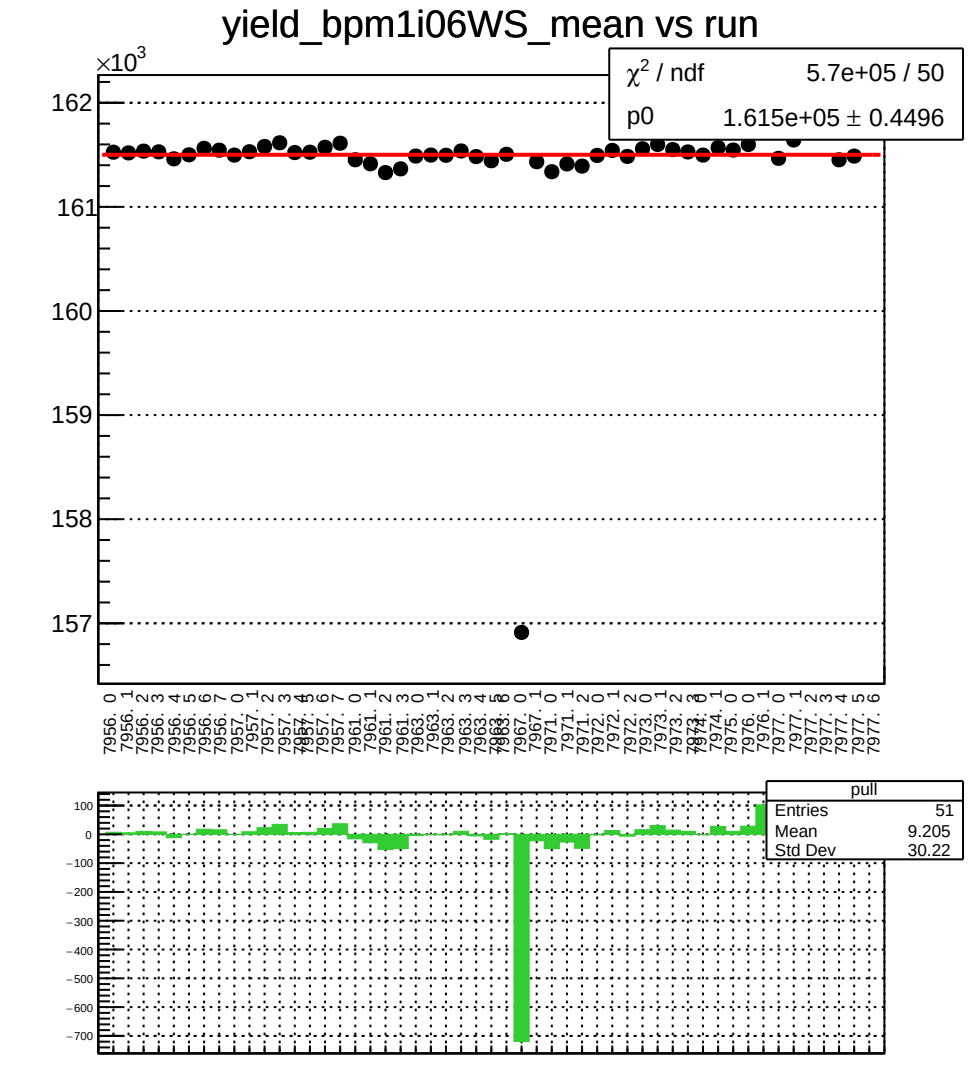

pull1D
Entries 51
Mean −2.674
Std Dev 5.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

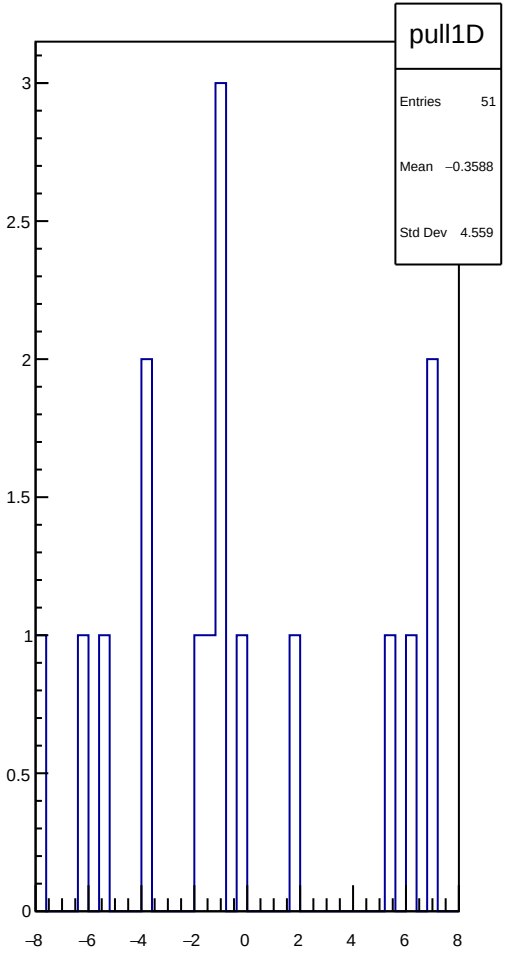

yield_bpm1i02WS_rms vs run
χ^2 / ndf 9197 / 50
p0 302.5 ± 0.2996
600
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 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

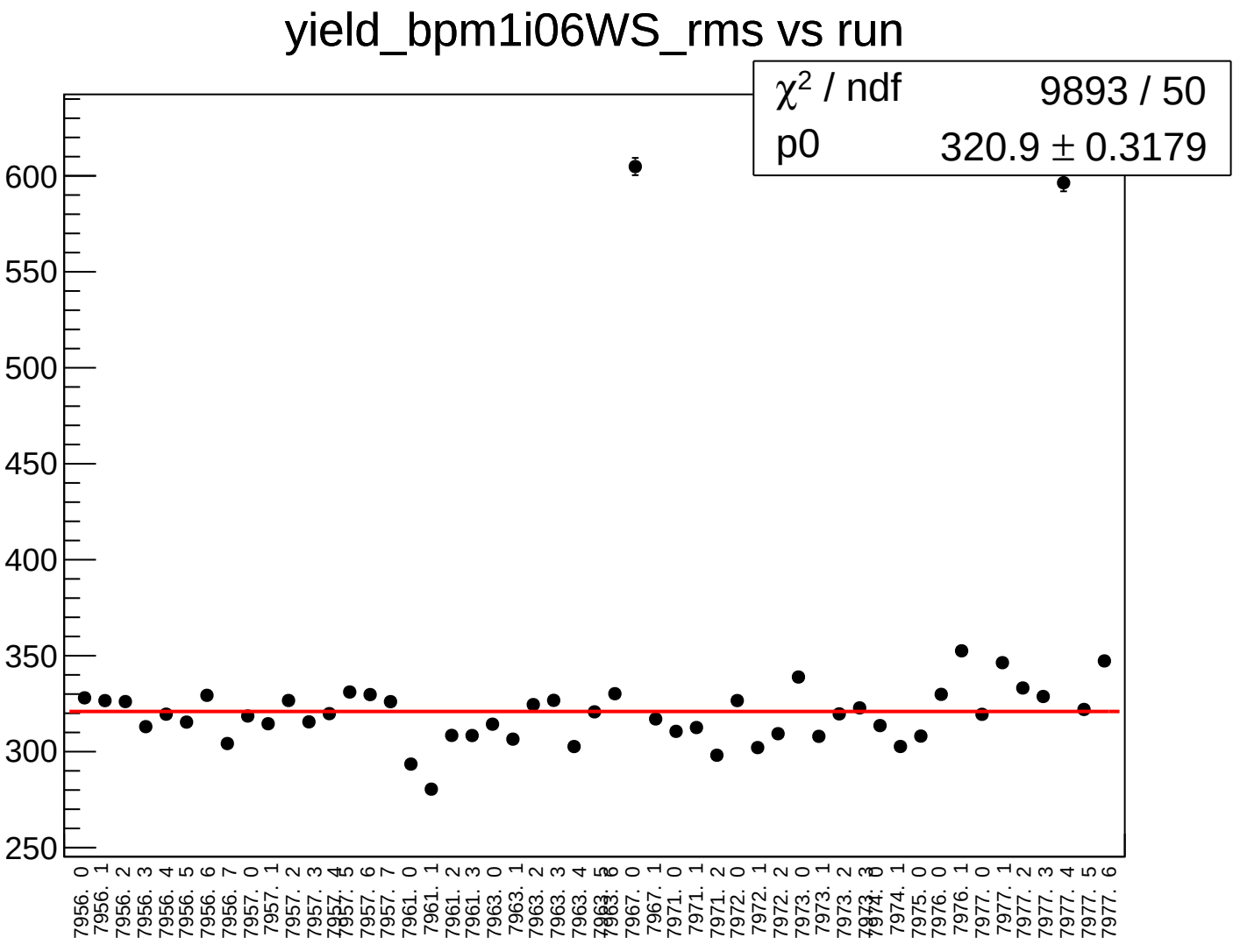

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.174e+05 / 50
p0 1.767e+05 ± 0.4372
177
176
175
174
173
172
pull
Entries 51
Mean 39.53
Std Dev 5.612
100
0
−100
−200
−300
−400
−500
−600
−700

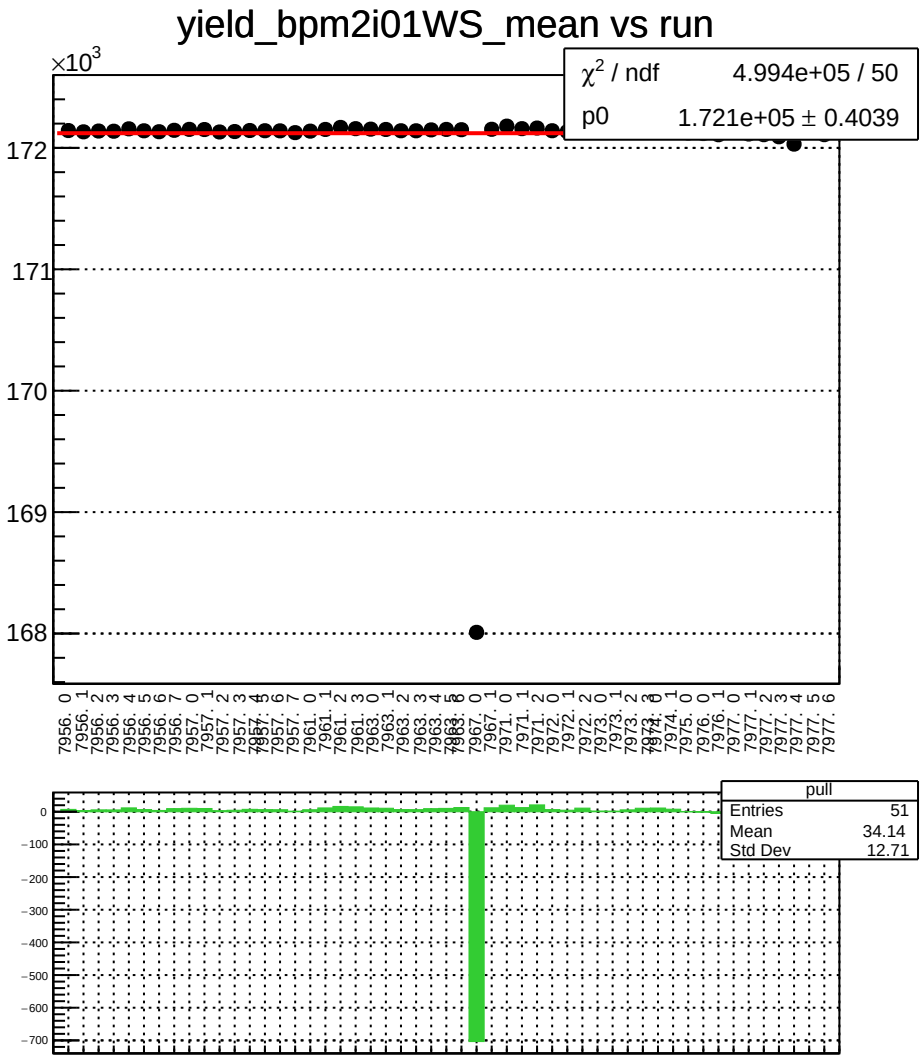

pull1D
Entries 51
Mean 1.319
Std Dev 3.959
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

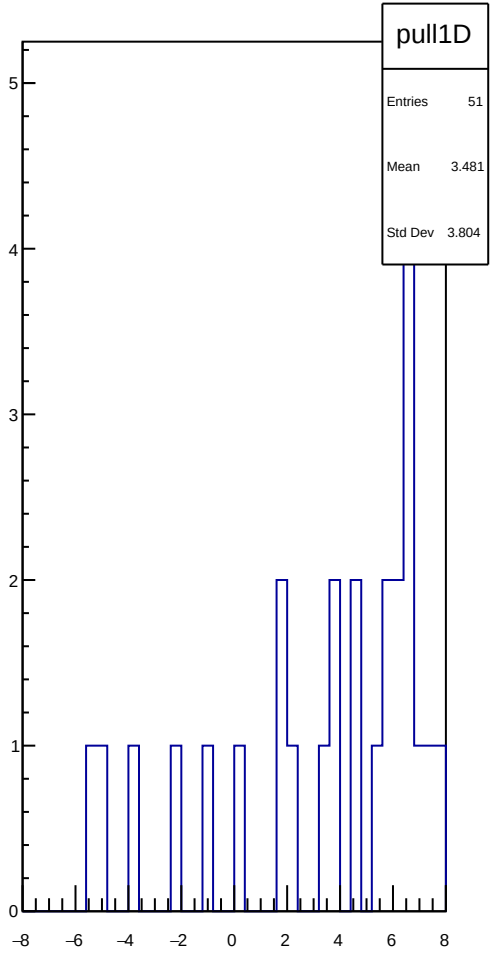

yield_bpm1i04WS_rms vs run
χ^2 / ndf 9747 / 50
p0 312.1 ± 0.3091
600
550
500
450
400
350
300
250
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 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

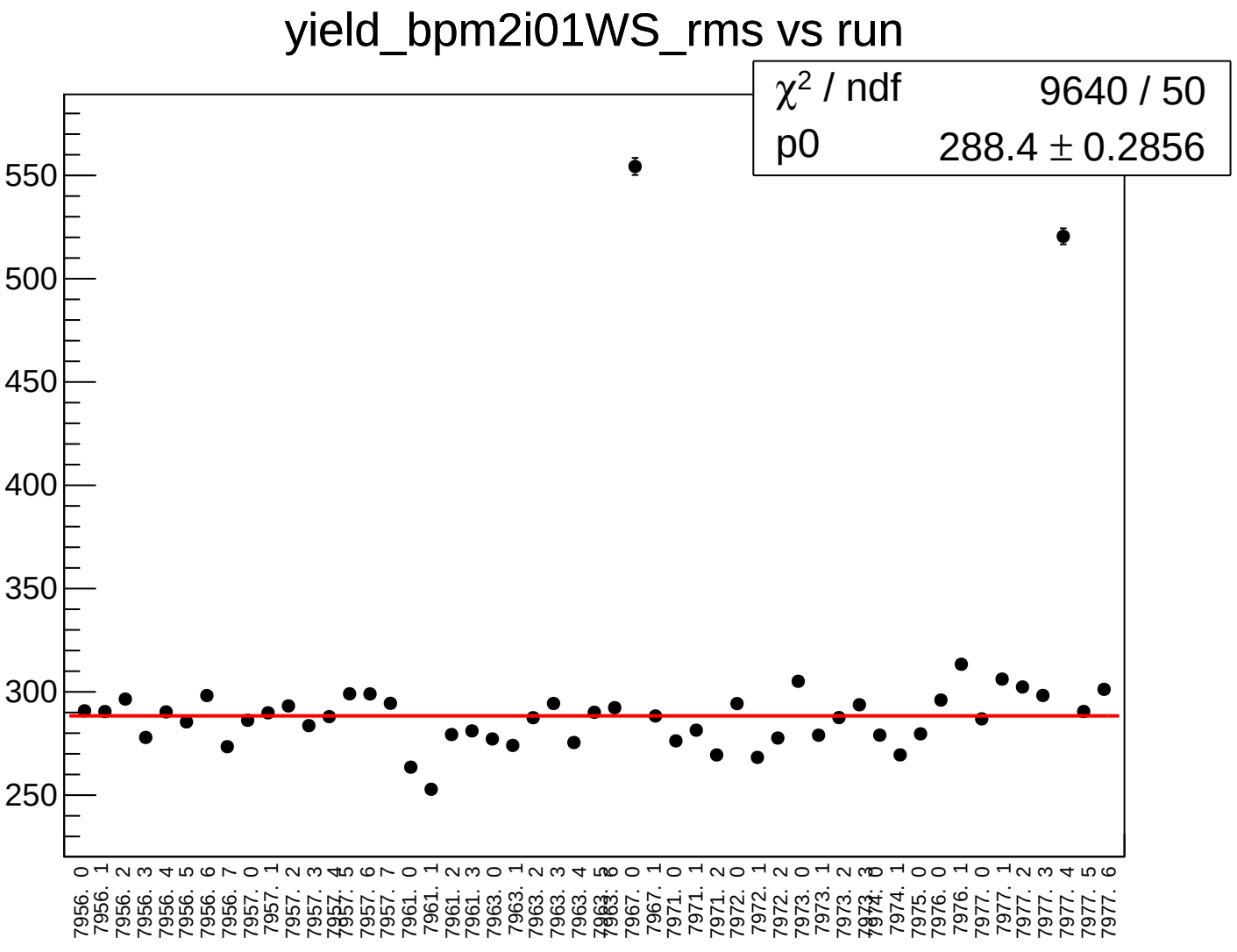

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.7e+05 / 50
p0 1.615e+05 ± 0.4496
pull
Entries 51
Mean 9.205
Std Dev 30.22


pull1D
Entries 51
Mean −0.3588
Std Dev 4.559


yield_bpm1i06WS_rms vs run
χ² / ndf 9893 / 50
p0 320.9 ± 0.3179
600
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. 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
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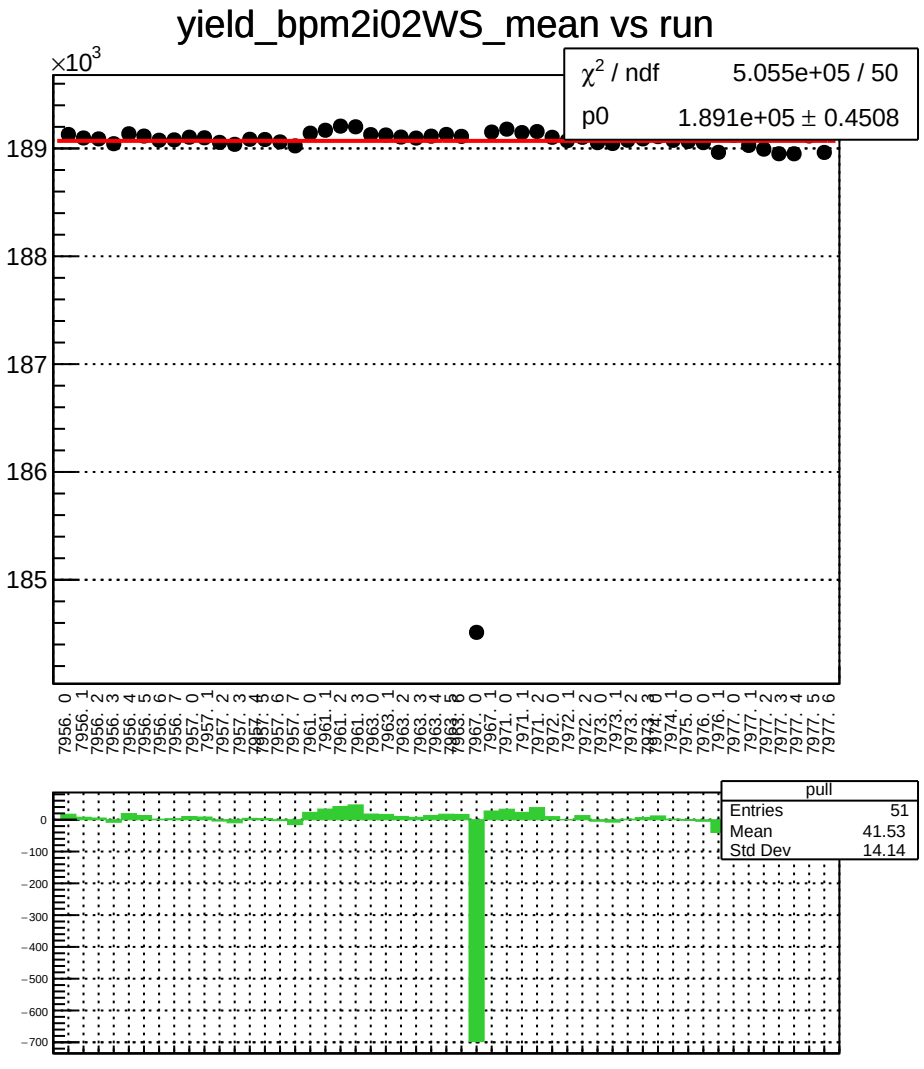
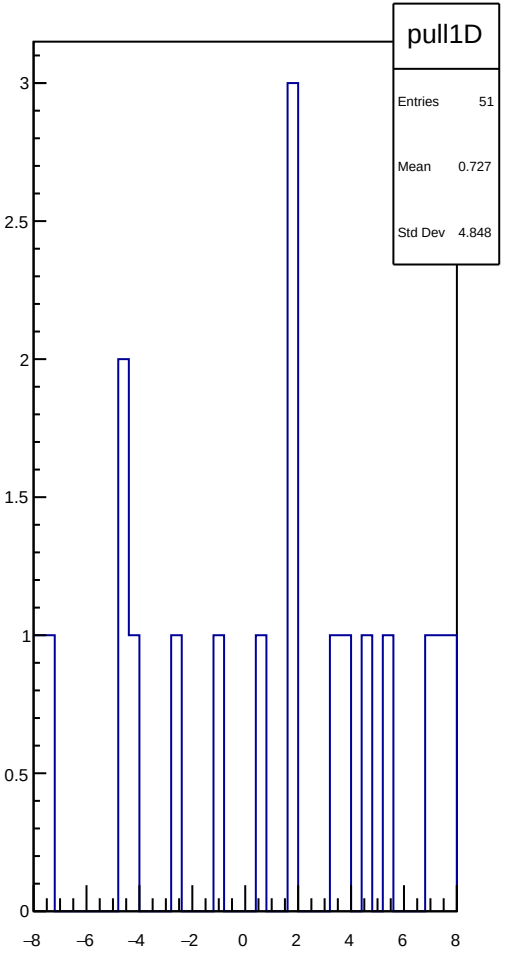
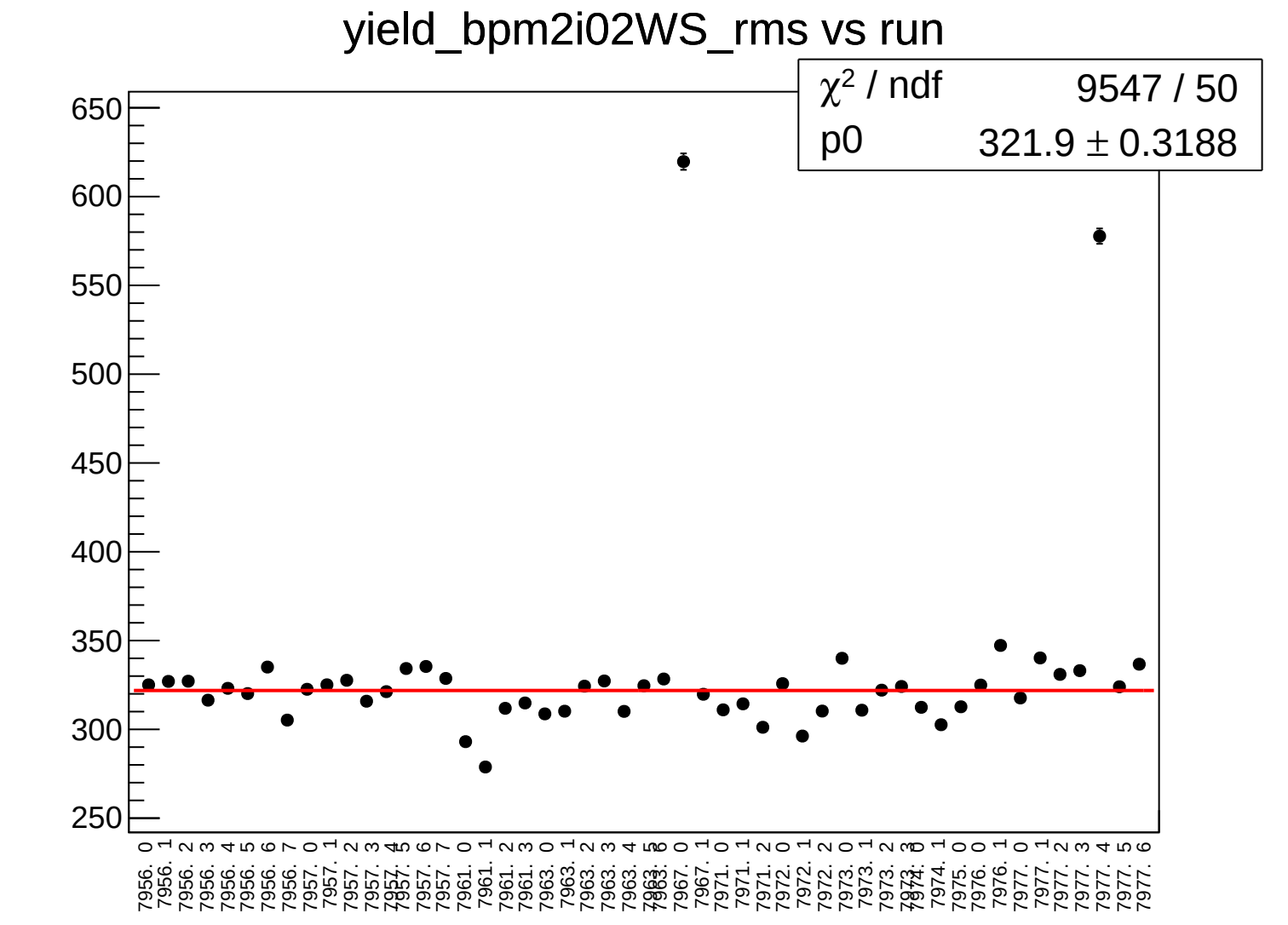
7977. 5
7977. 6


yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 5.055e+05 / 50
p0 1.891e+05 ± 0.4508
189
188
187
186
185
pull
Entries 51
Mean 41.53
Std Dev 14.14
0
−100
−200
−300
−400
−500
−600
−700


pull1D
Entries 51
Mean 0.727
Std Dev 4.848
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02WS_rms vs run
χ² / ndf 9547 / 50
p0 321.9 ± 0.3188
650
600
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. 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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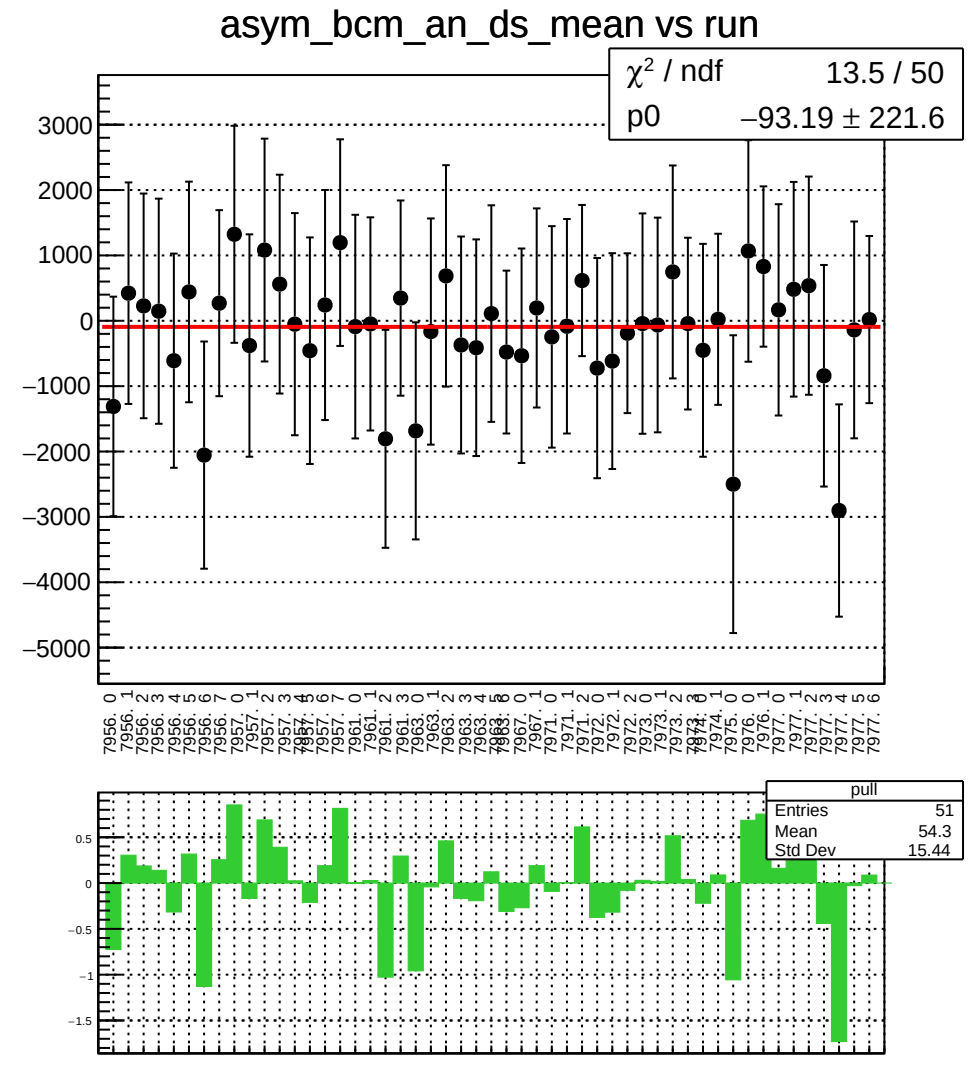
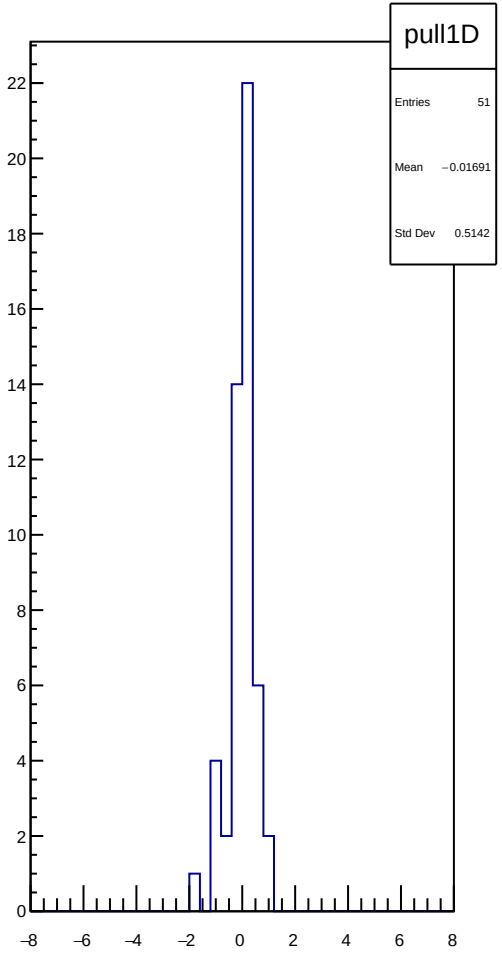
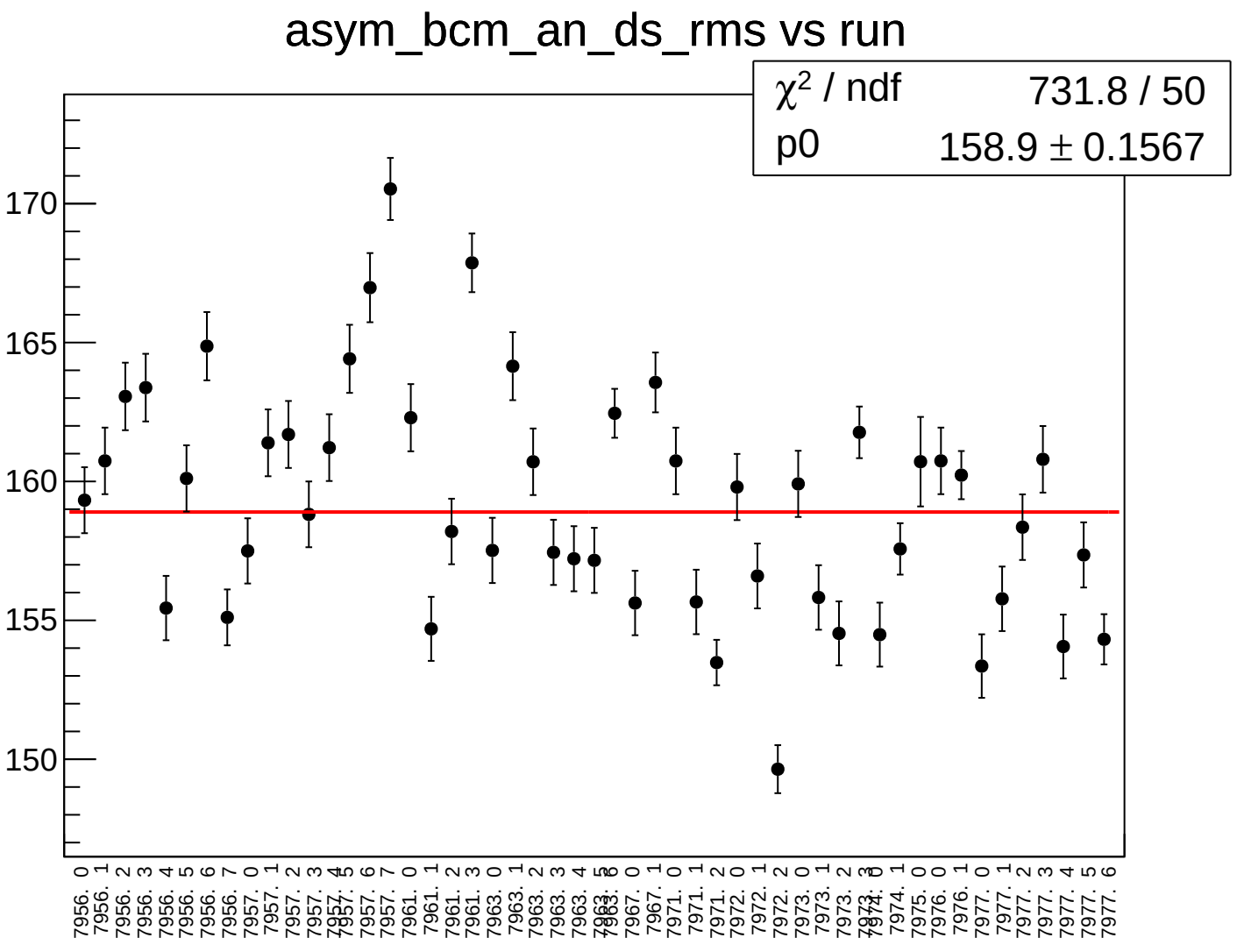
7977. 5
7977. 6


asym_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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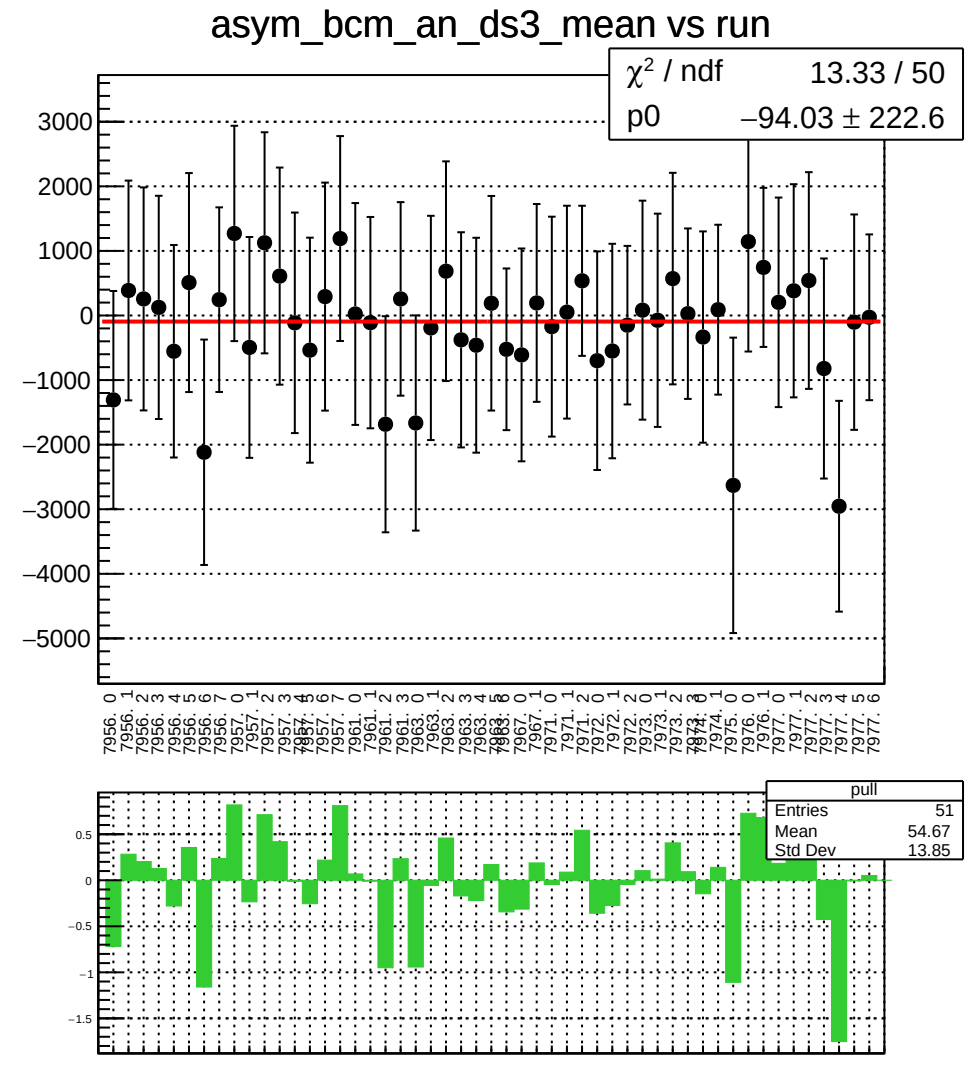
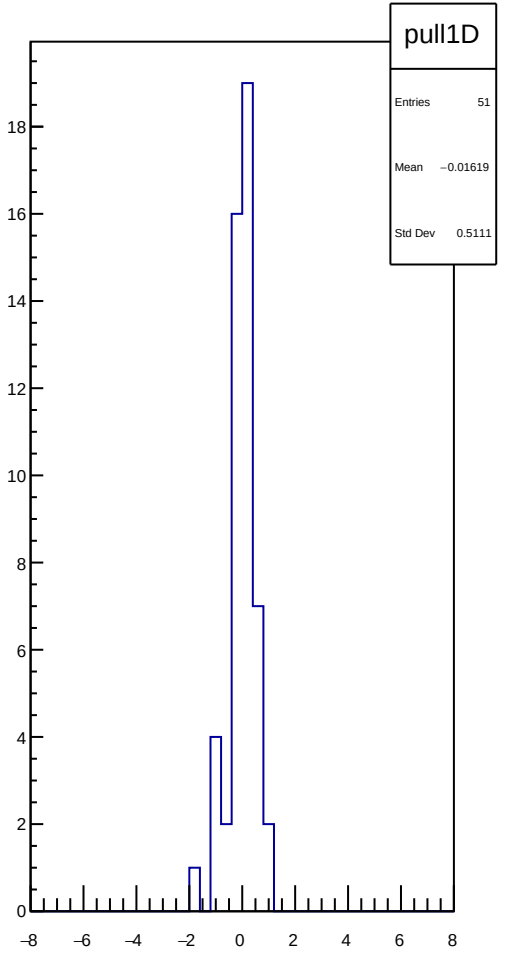
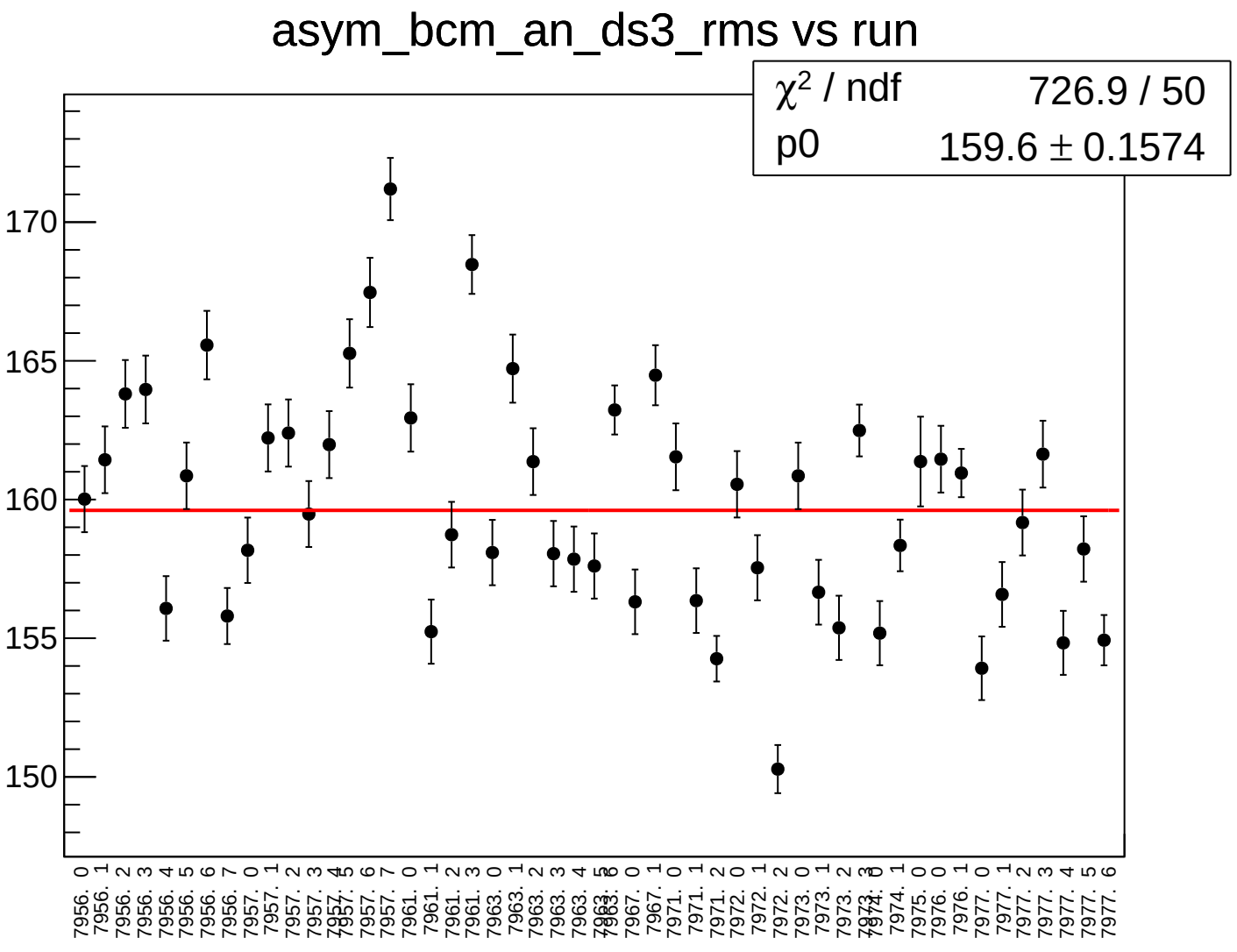
7977. 5
7977. 6


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
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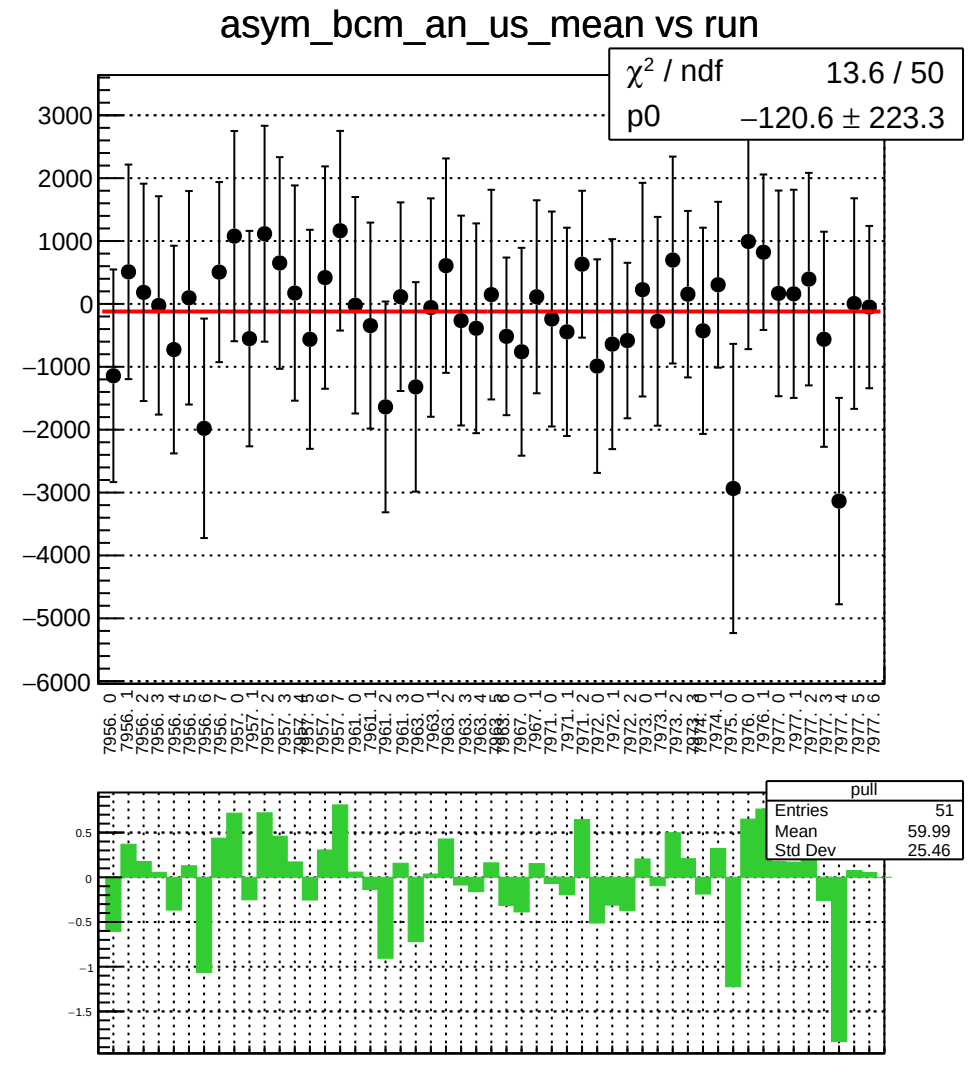
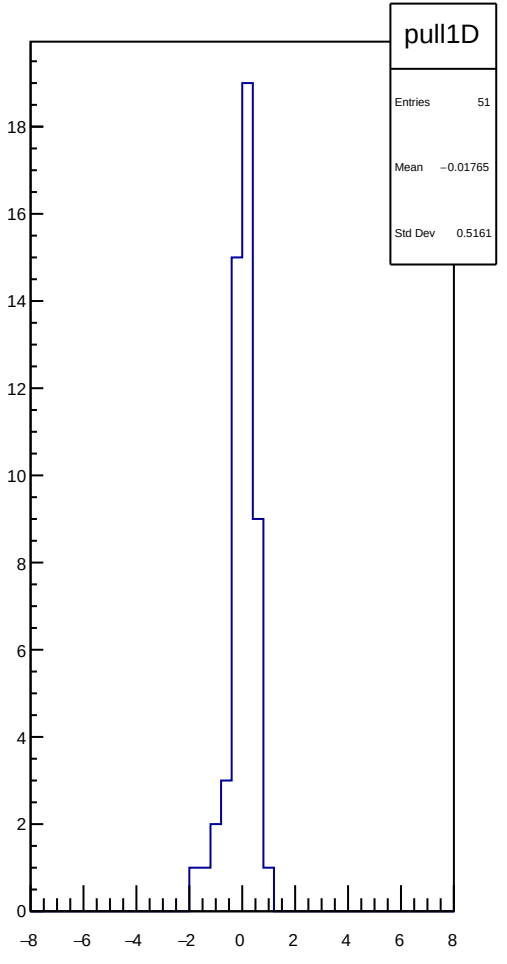
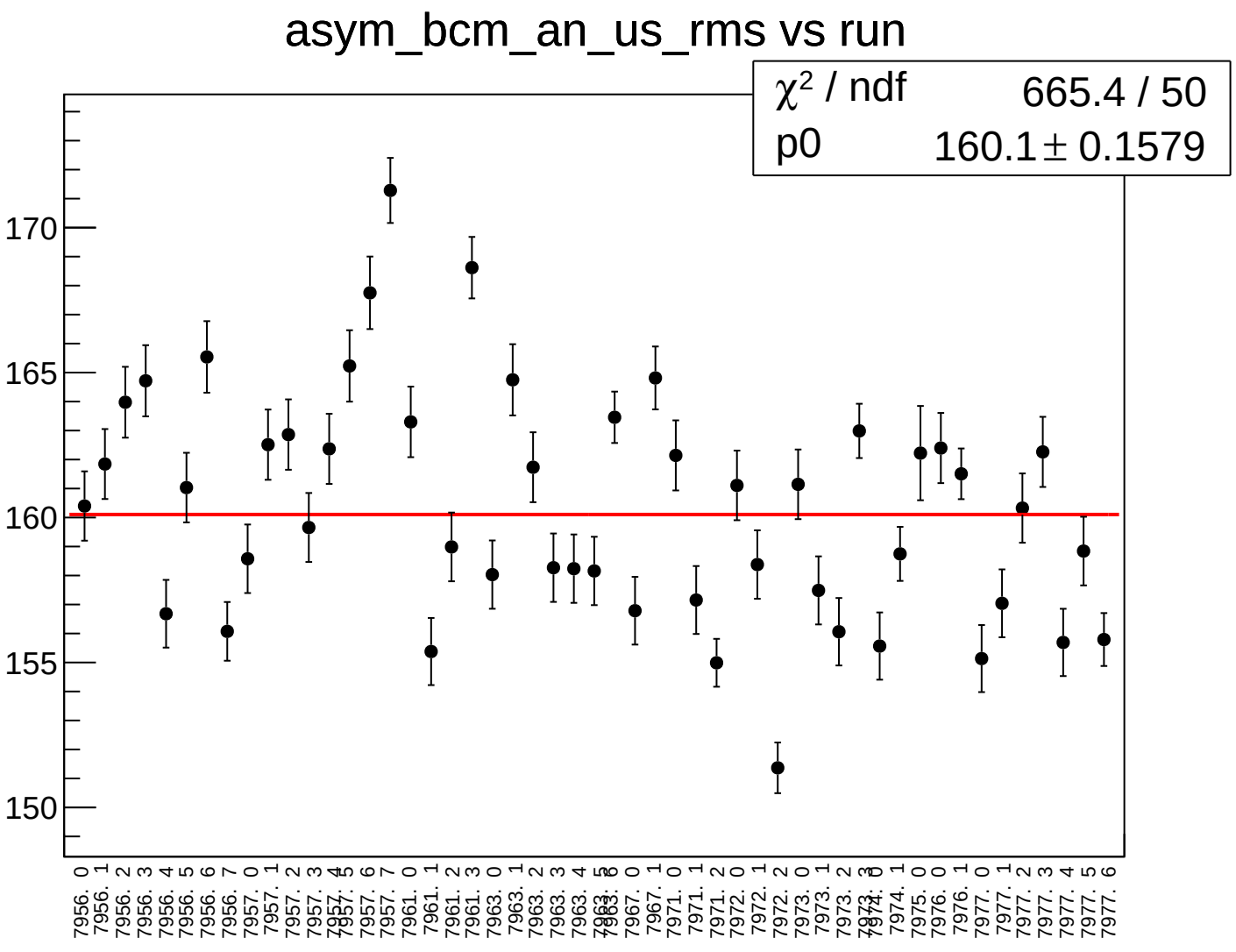
7977. 6


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
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7973. 0
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7973. 2
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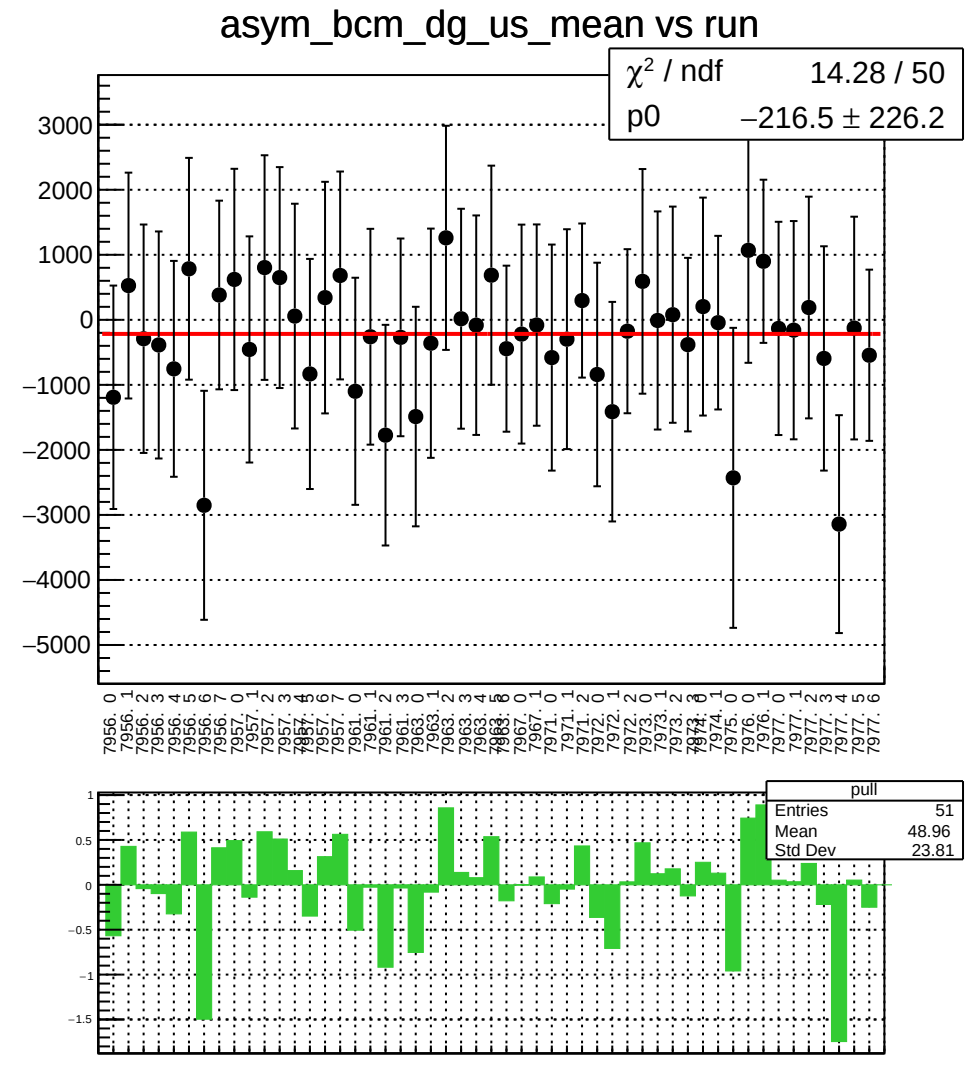
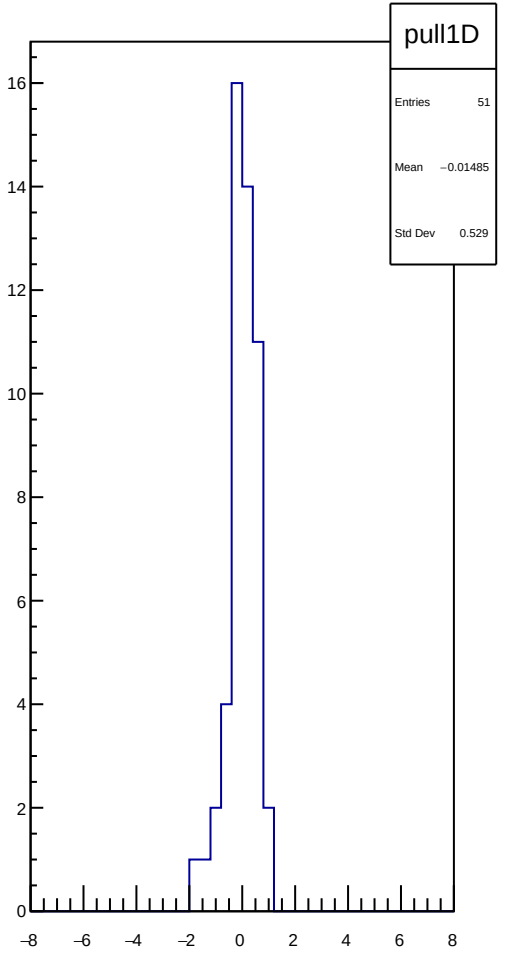
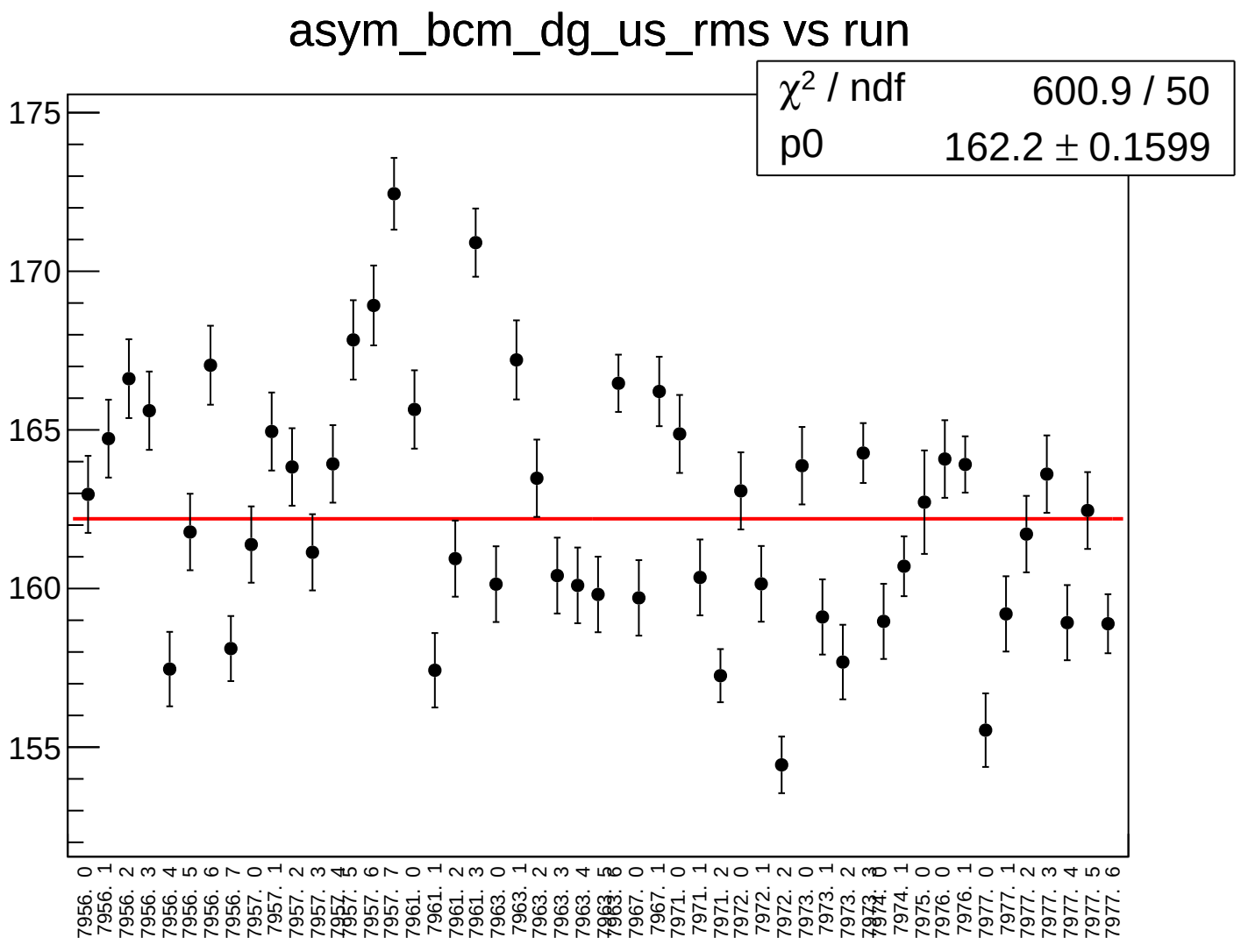
7977. 4
7977. 5
7977. 6


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
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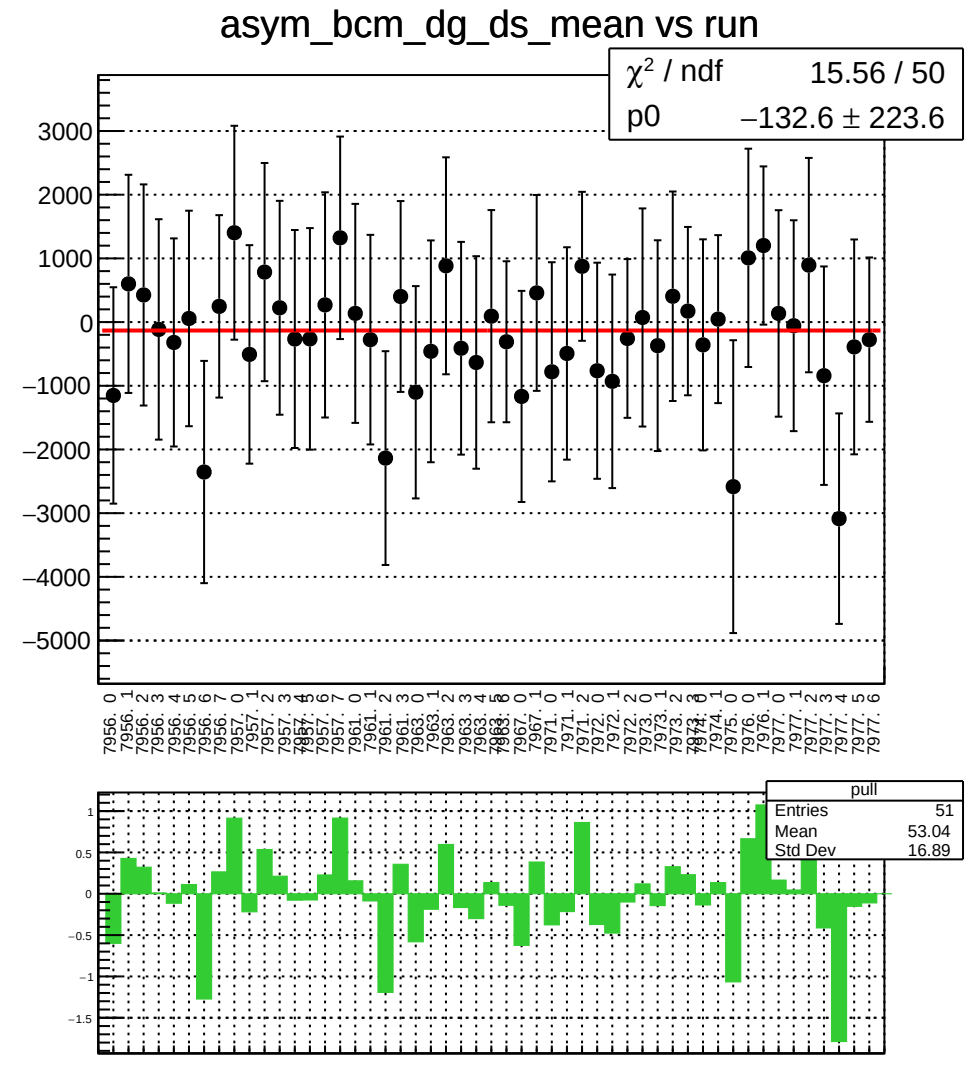
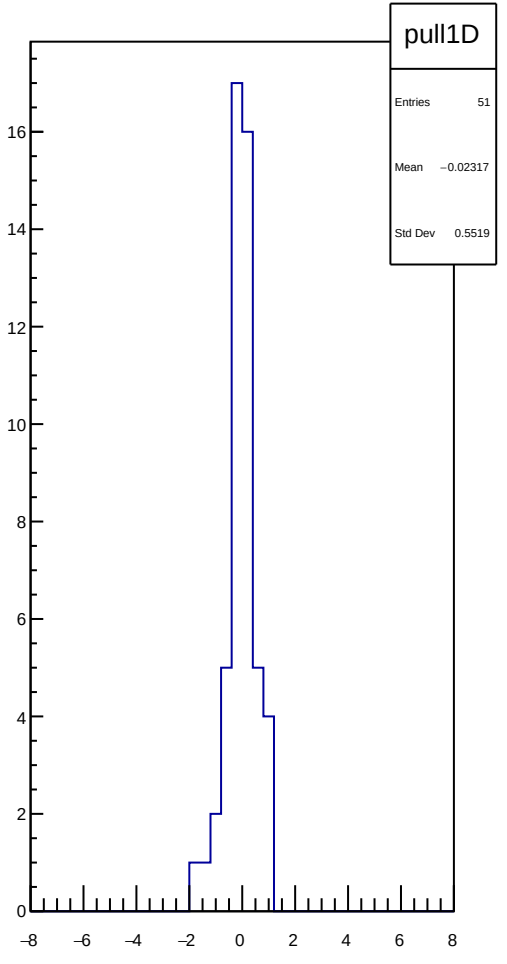
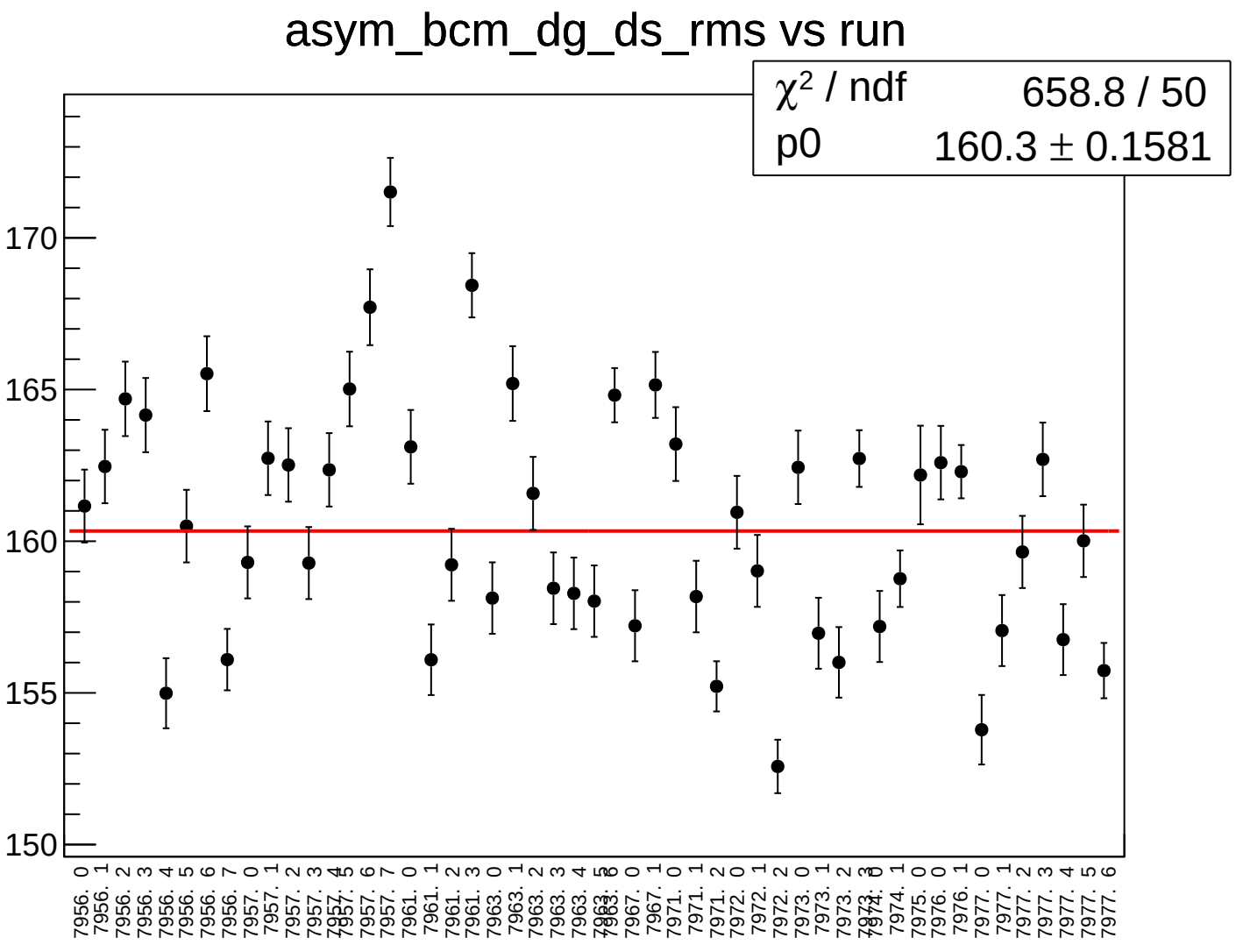
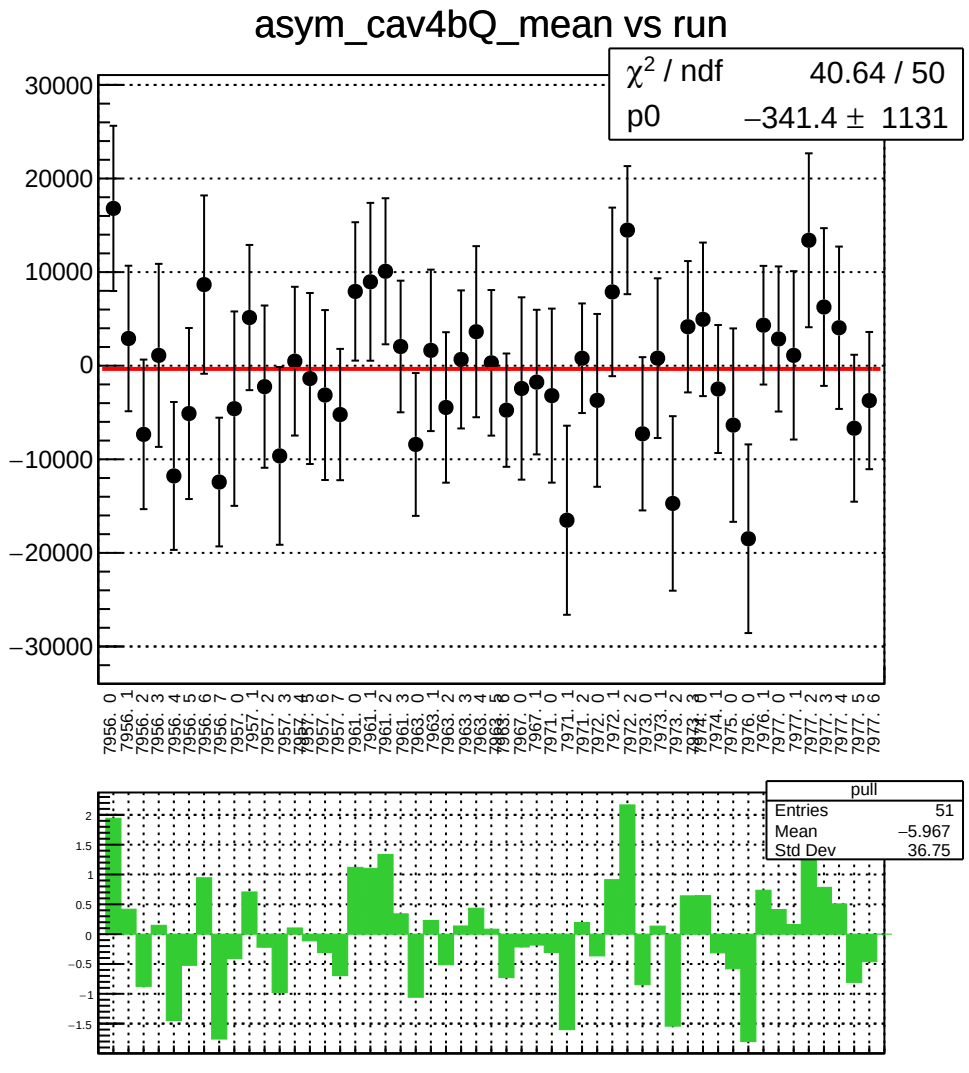
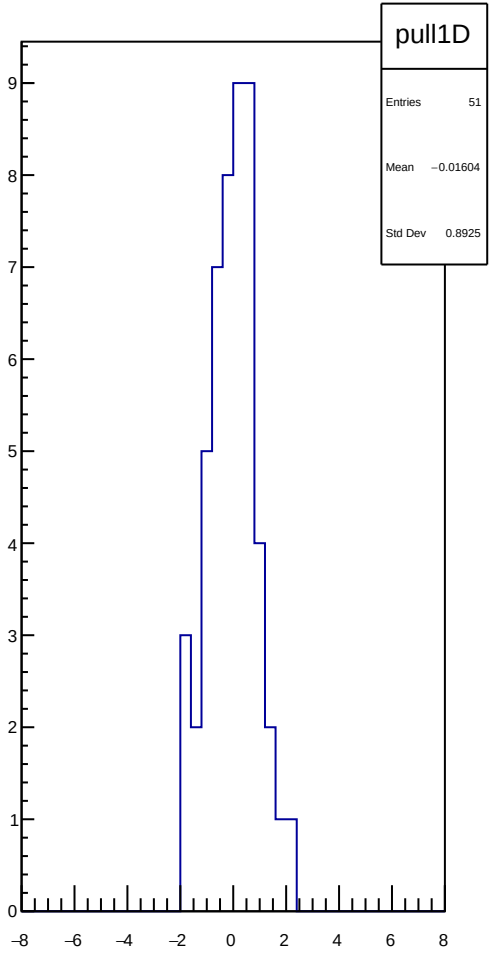
7977. 5
7977. 6

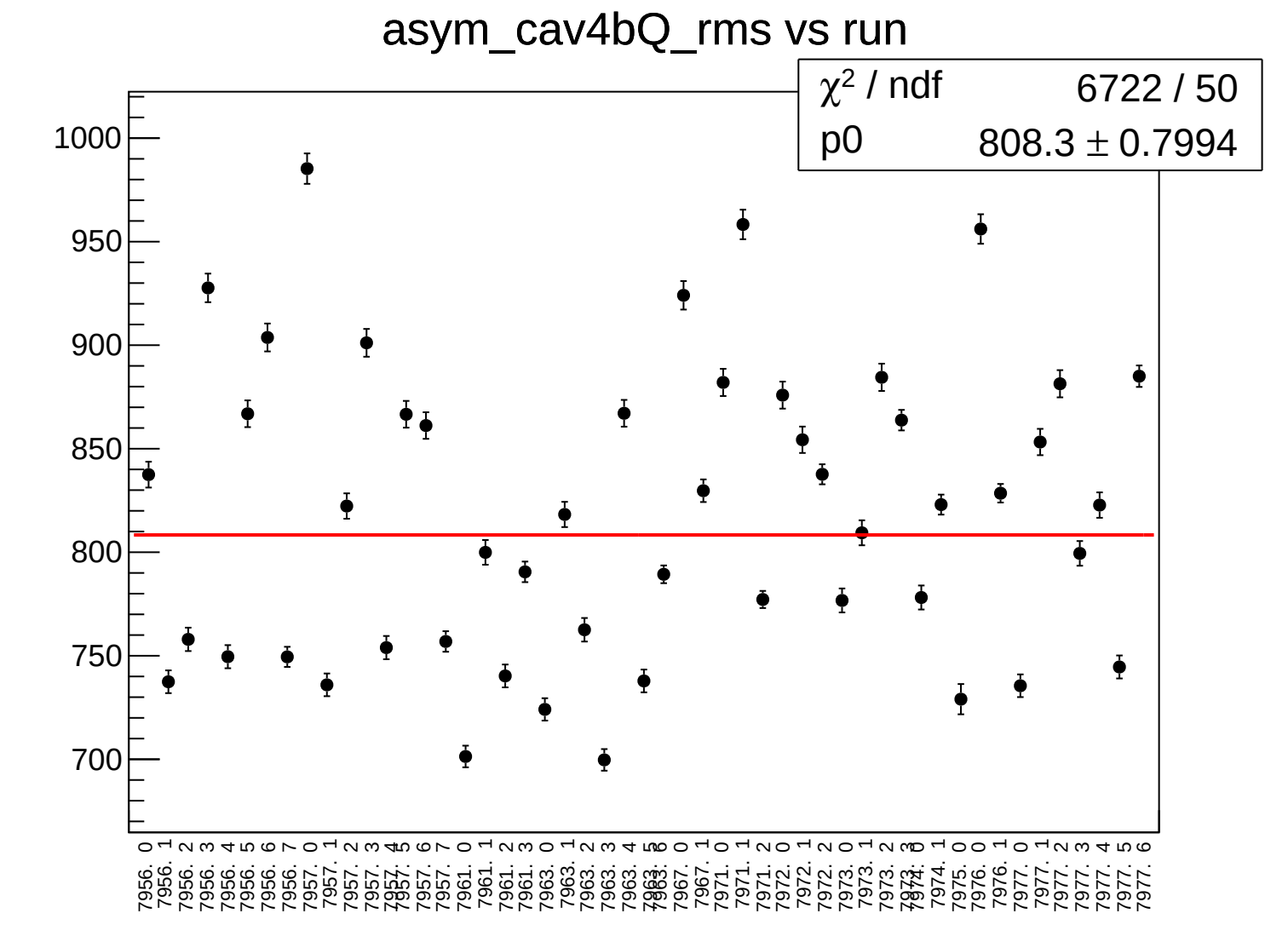

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.56 / 50
p0 −132.6 ± 223.6
pull
Entries 51
Mean 53.04
Std Dev 16.89


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
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7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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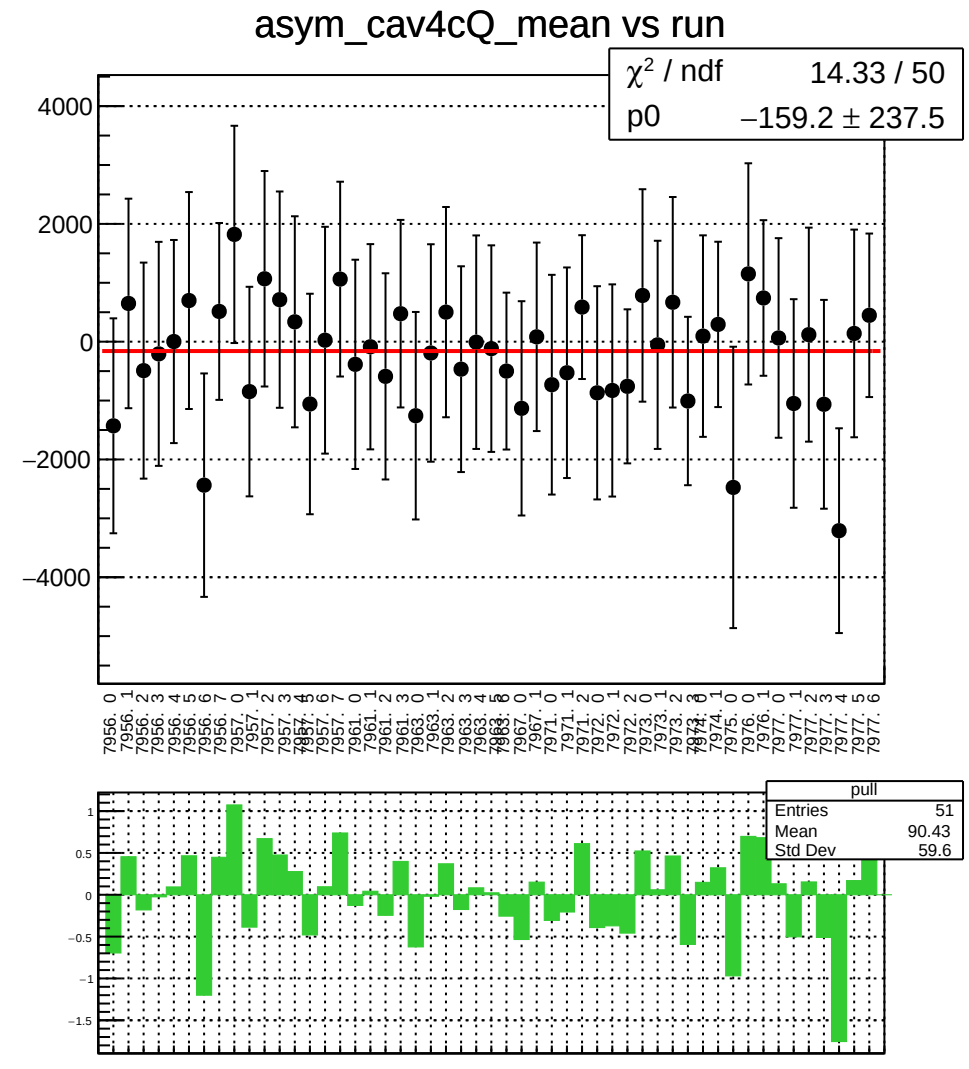
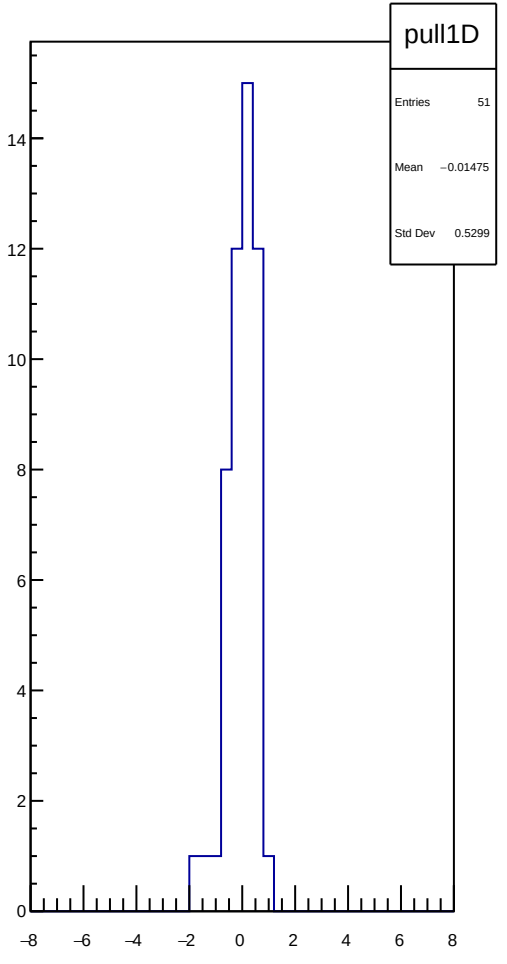
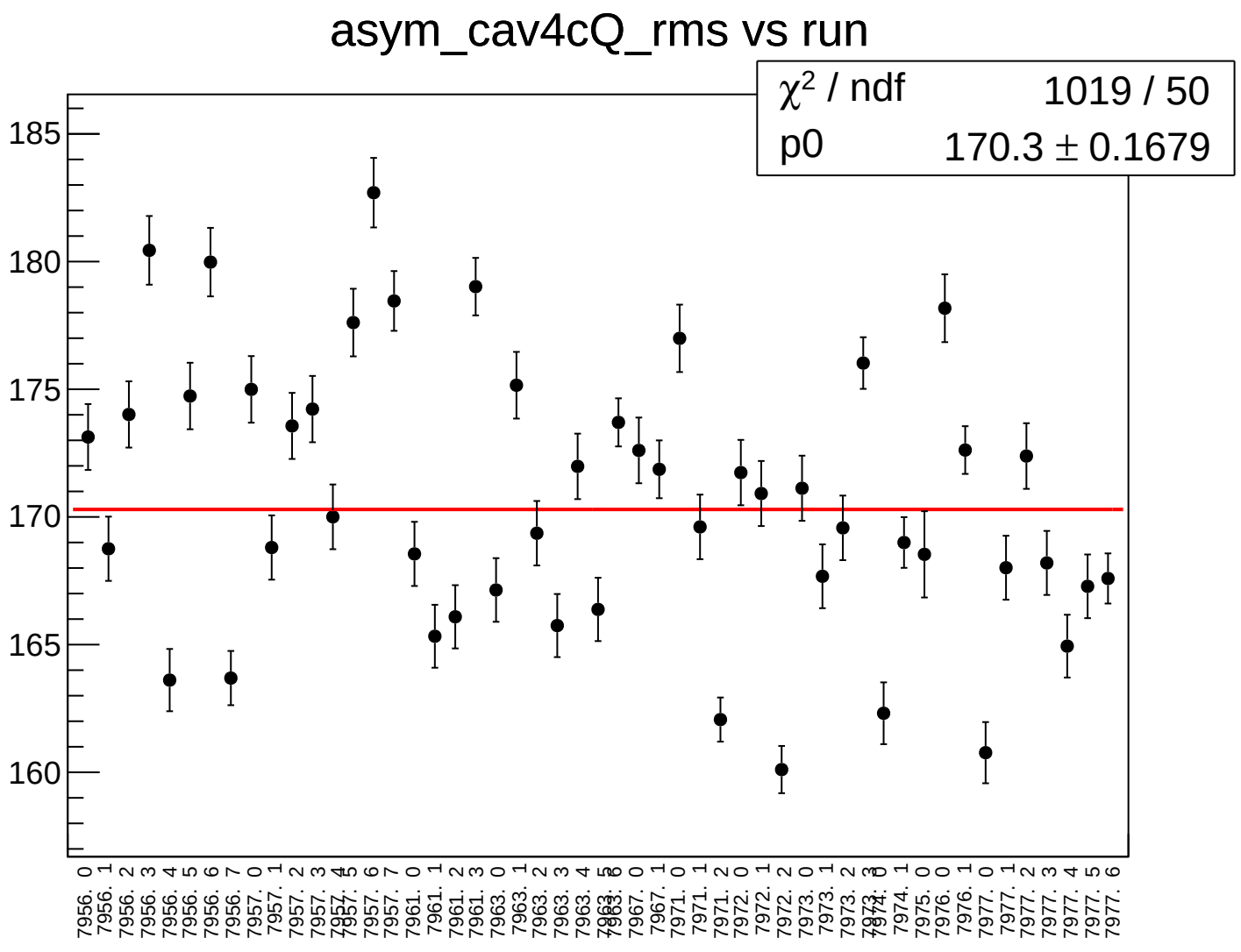
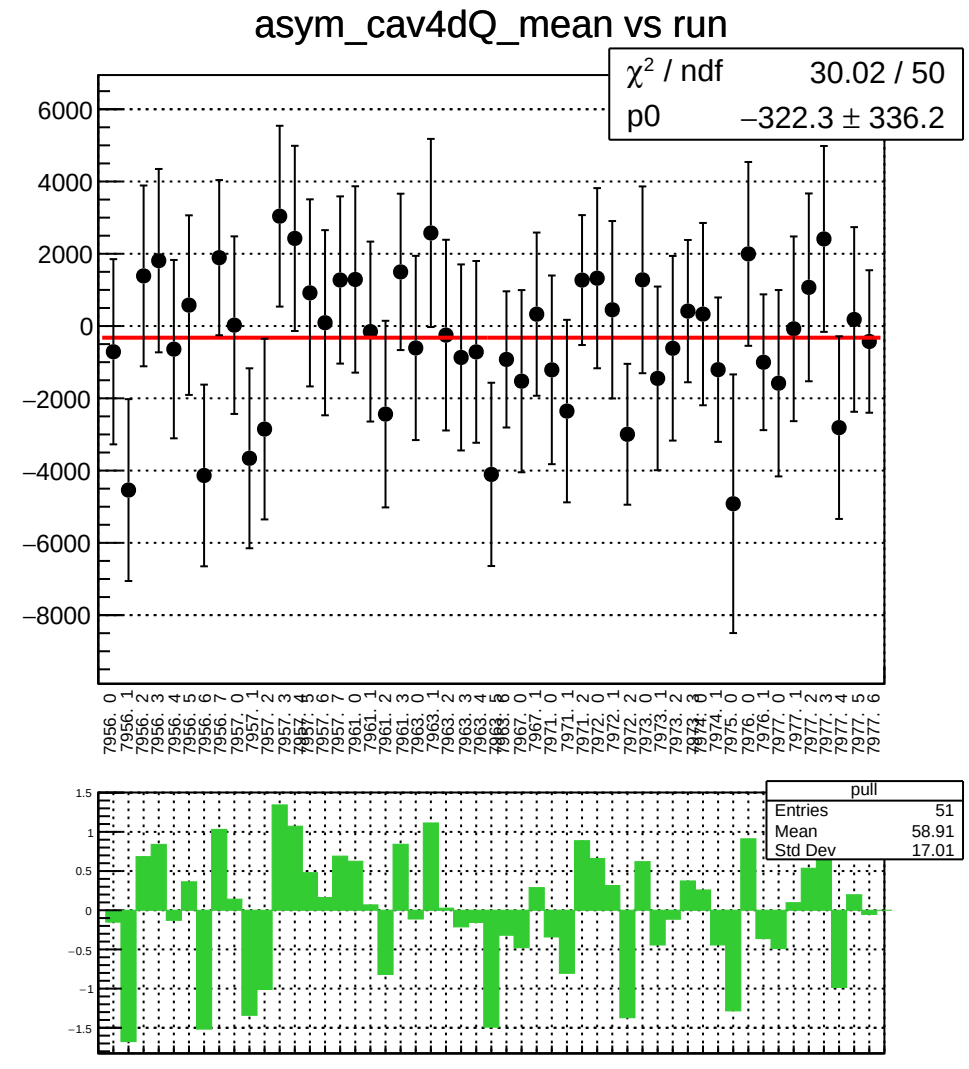
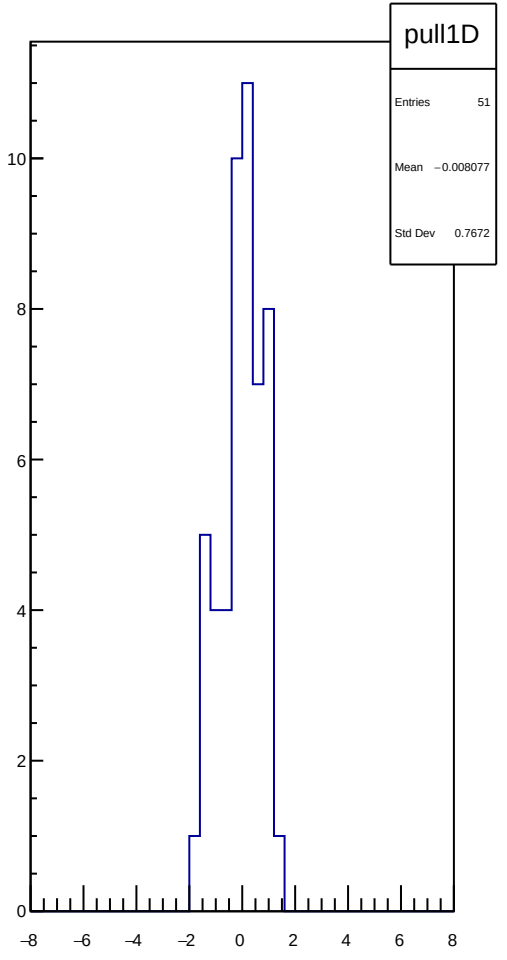
7977. 5
7977. 6

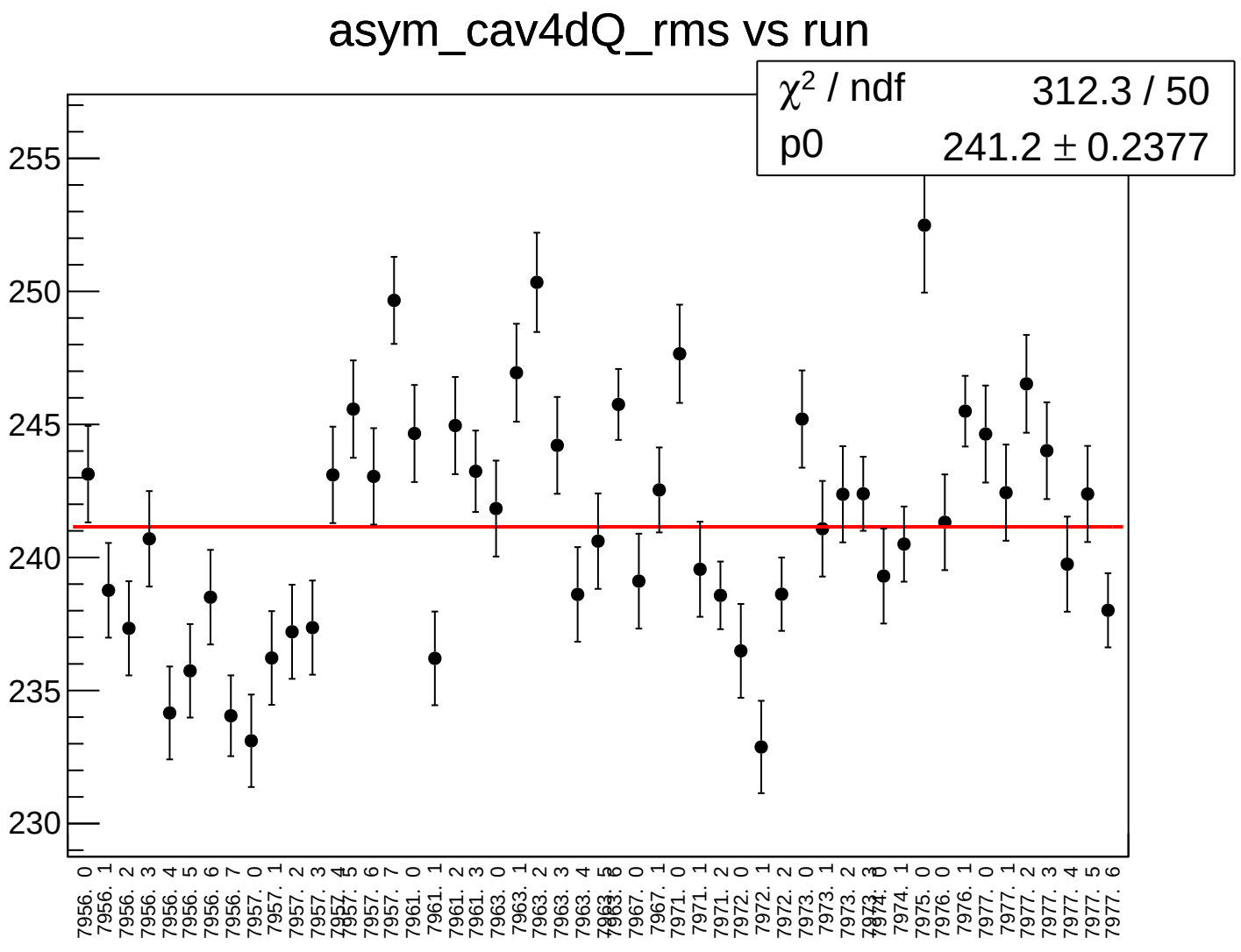

asym_cav4cQ_mean vs run
χ² / ndf 14.33 / 50
p0 −159.2 ± 237.5
4000
2000
0
−2000
−4000
pull
Entries 51
Mean 90.43
Std Dev 59.6
1
0.5
0
−0.5
−1
−1.5

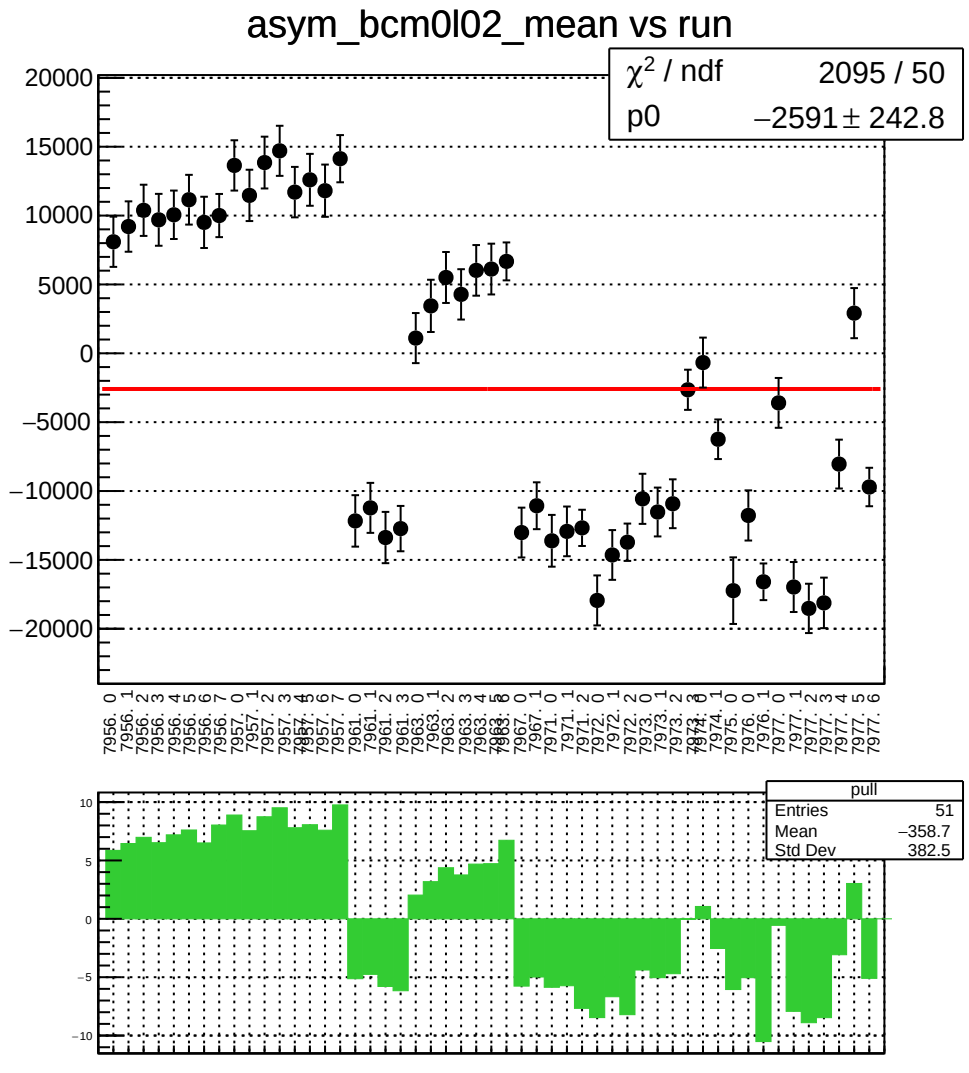

pull1D
Entries 51
Mean −0.01475
Std Dev 0.5299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

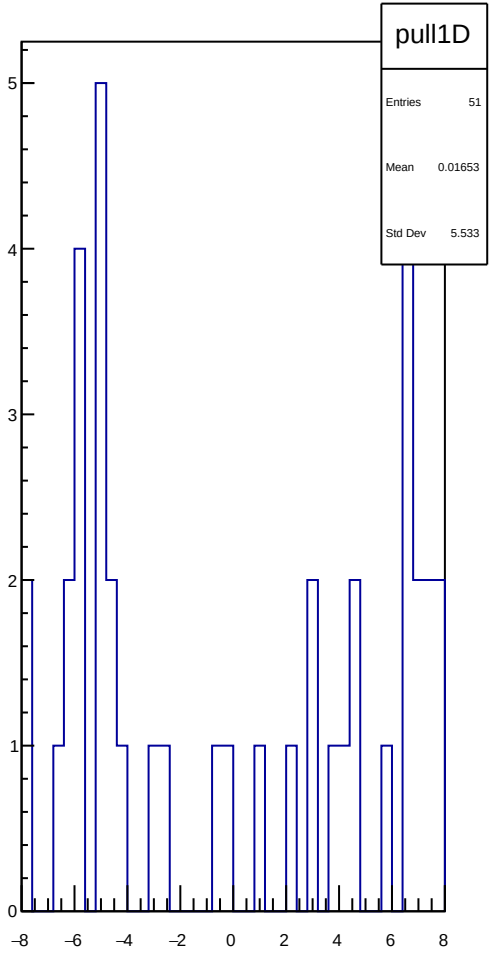

asym_cav4cQ_rms vs run
χ² / ndf 1019 / 50
p0 170.3 ± 0.1679
185
180
175
170
165
160
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971.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

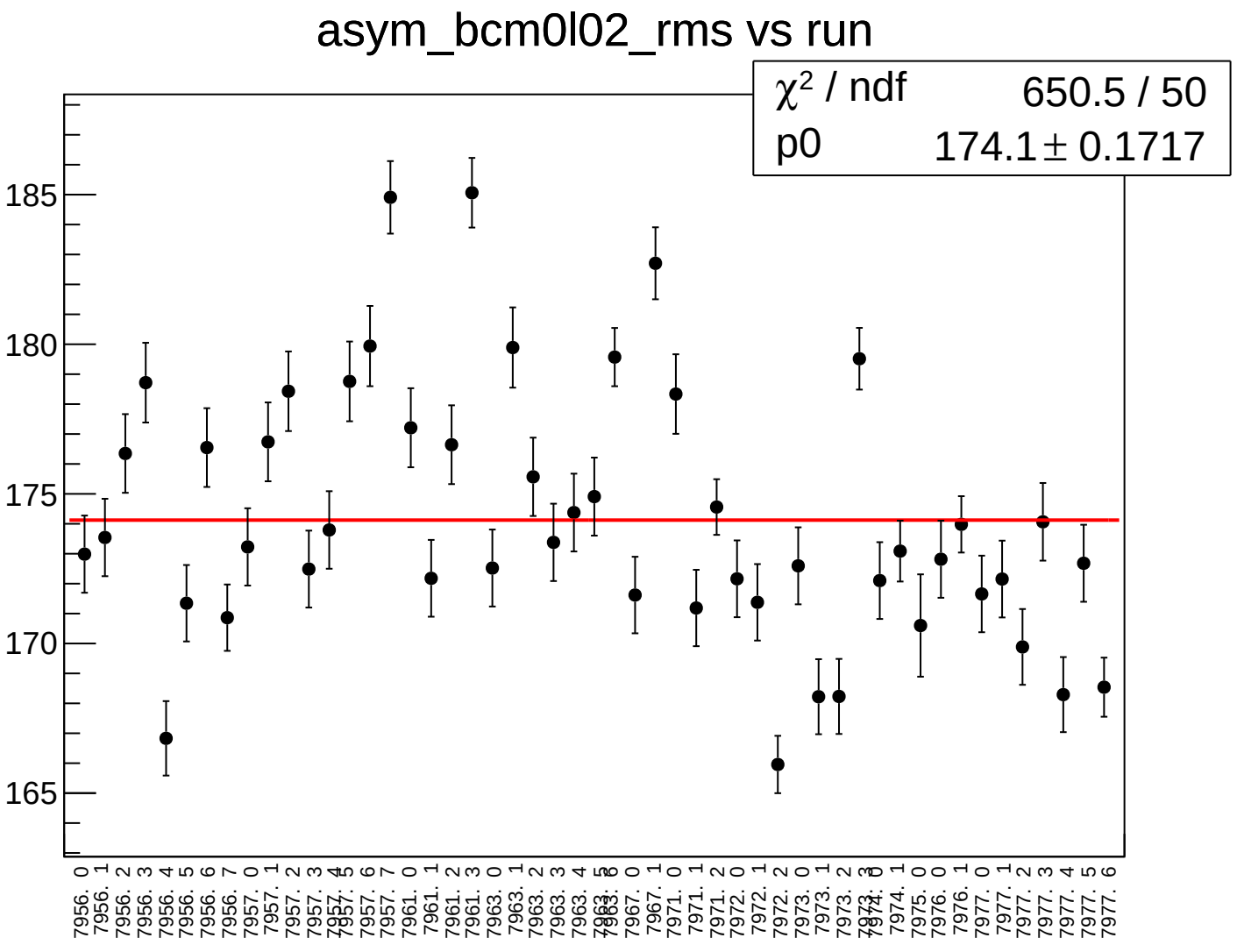

asym_cav4dQ_mean vs run
χ² / ndf 30.02 / 50
p0 −322.3 ± 336.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 51
Mean 58.91
Std Dev 17.01
1.5
1
0.5
0
−0.5
−1
−1.5


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
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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
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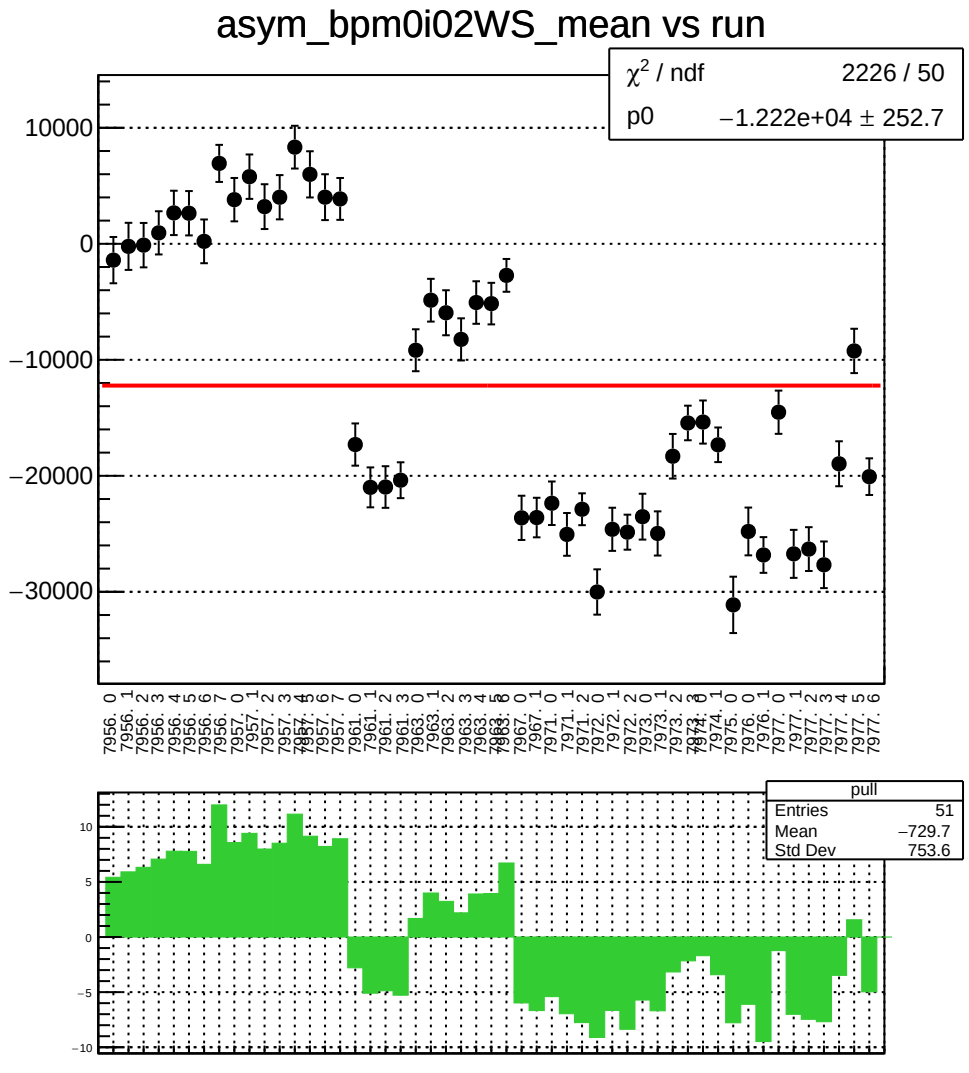
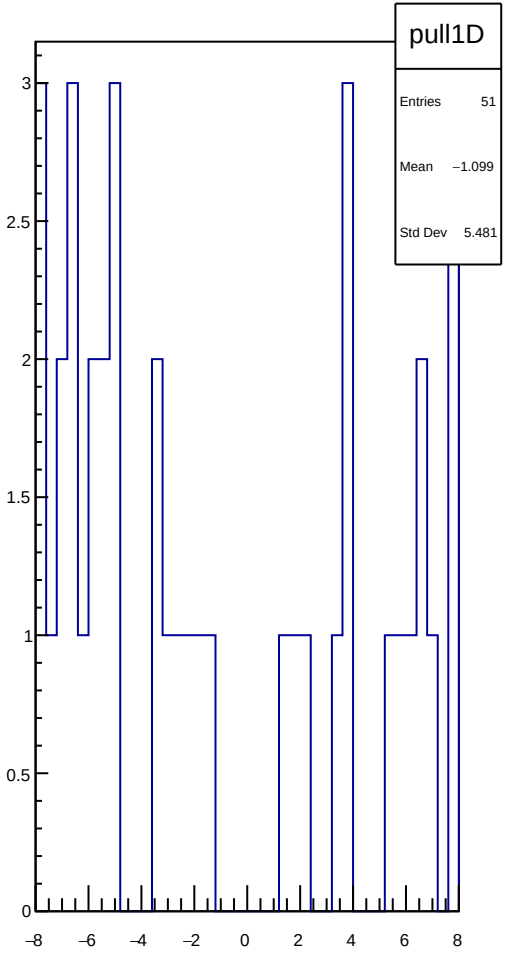
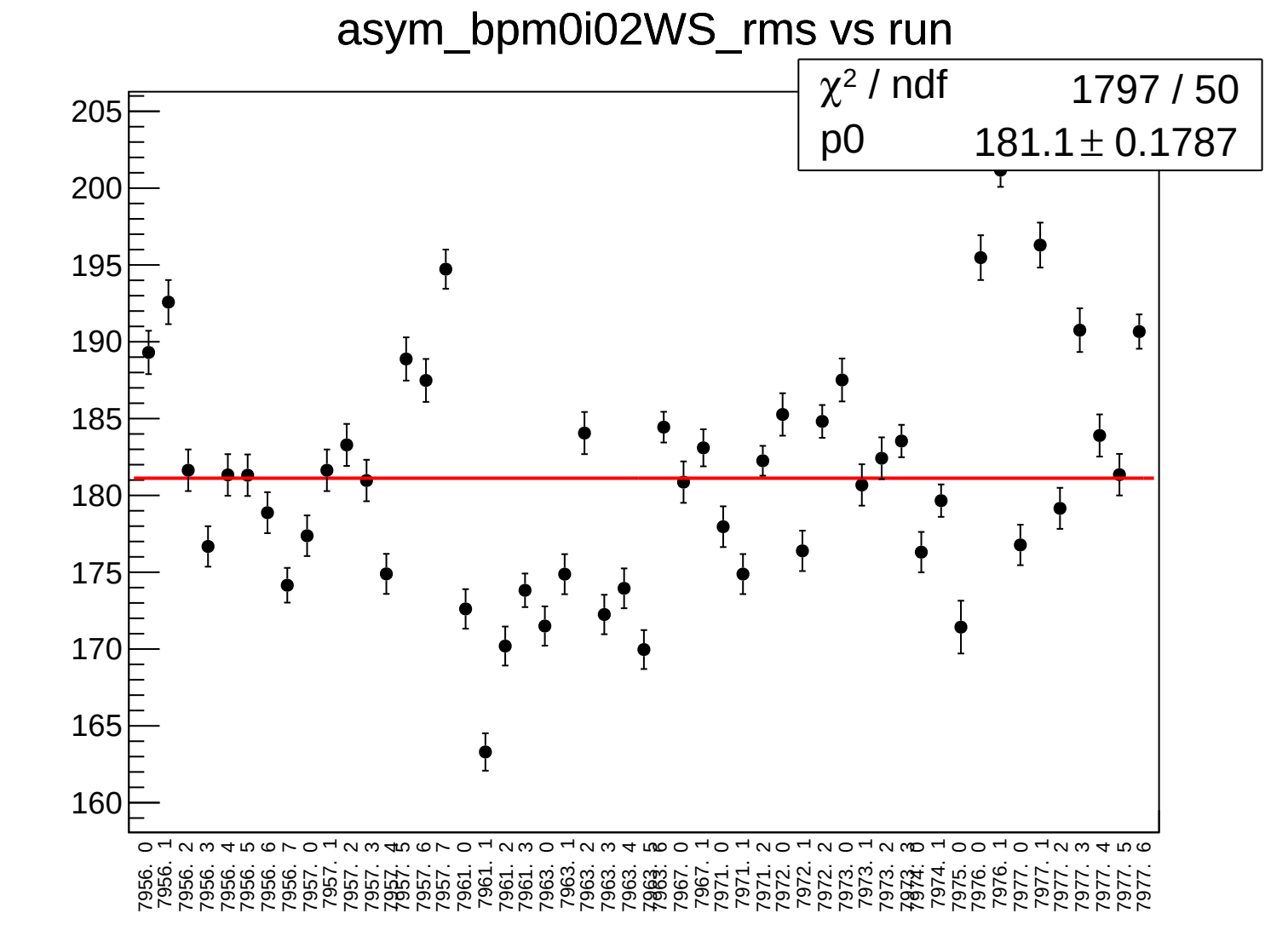
7977. 5
7977. 6


asym_bpm0i02WS_mean vs run
χ² / ndf 2226 / 50
p0 −1.222e+04 ± 252.7
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −729.7
Std Dev 753.6
10
5
0
−5
−10


pull1D
Entries 51
Mean −1.099
Std Dev 5.481
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02WS_rms vs run
χ² / ndf 1797 / 50
p0 181.1 ± 0.1787
205
200
195
190
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
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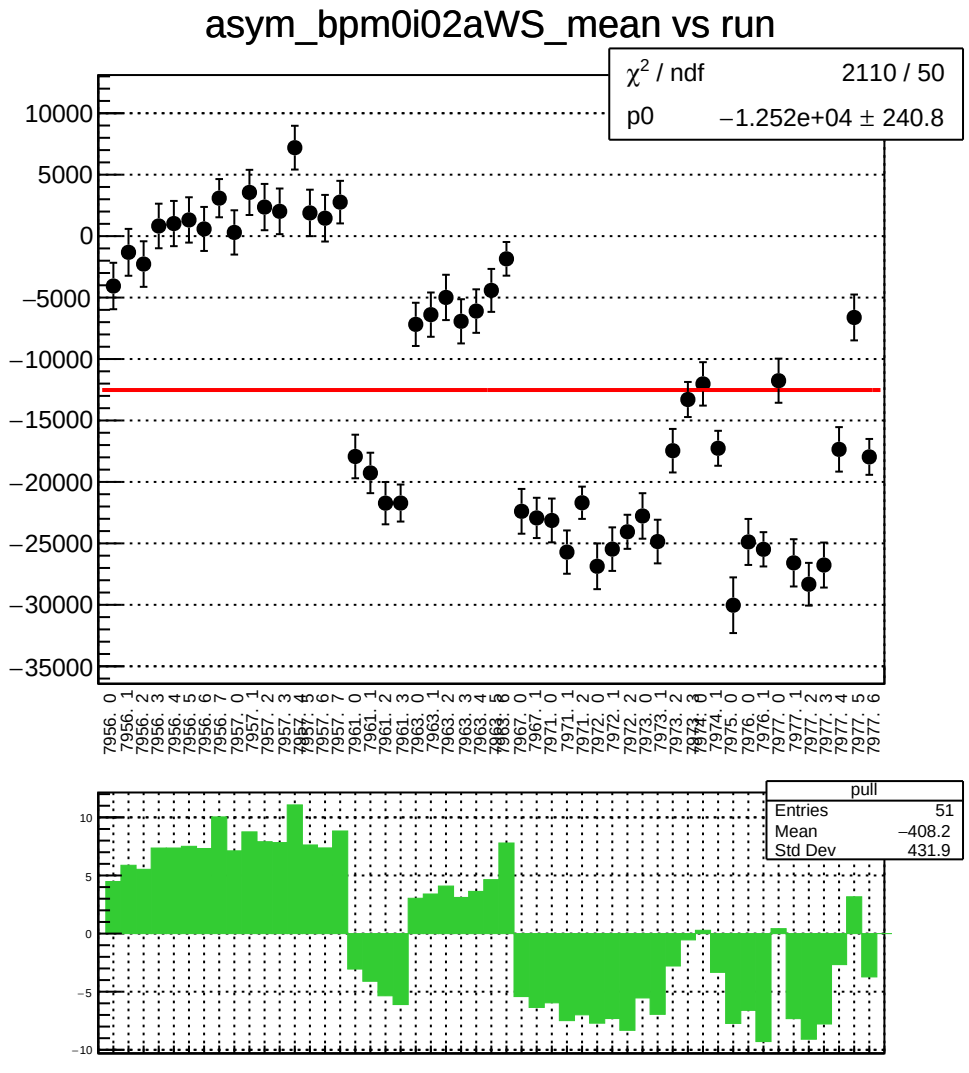
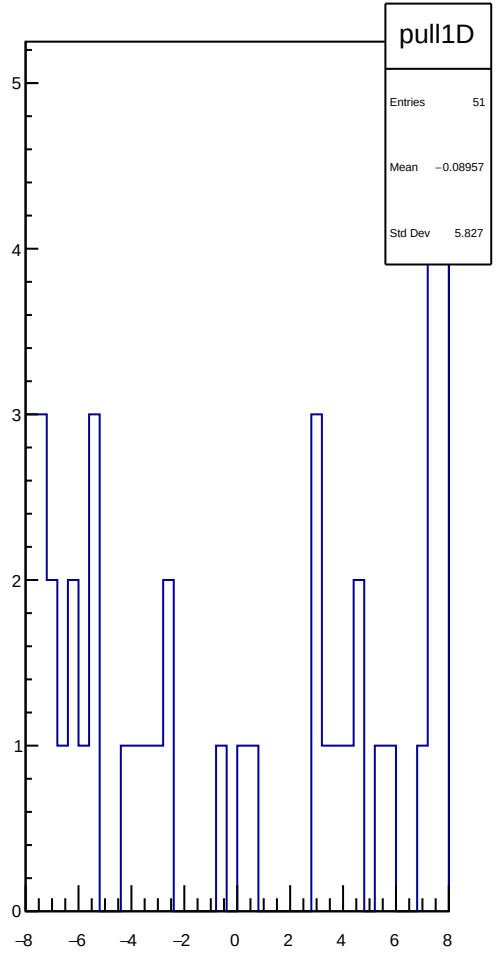
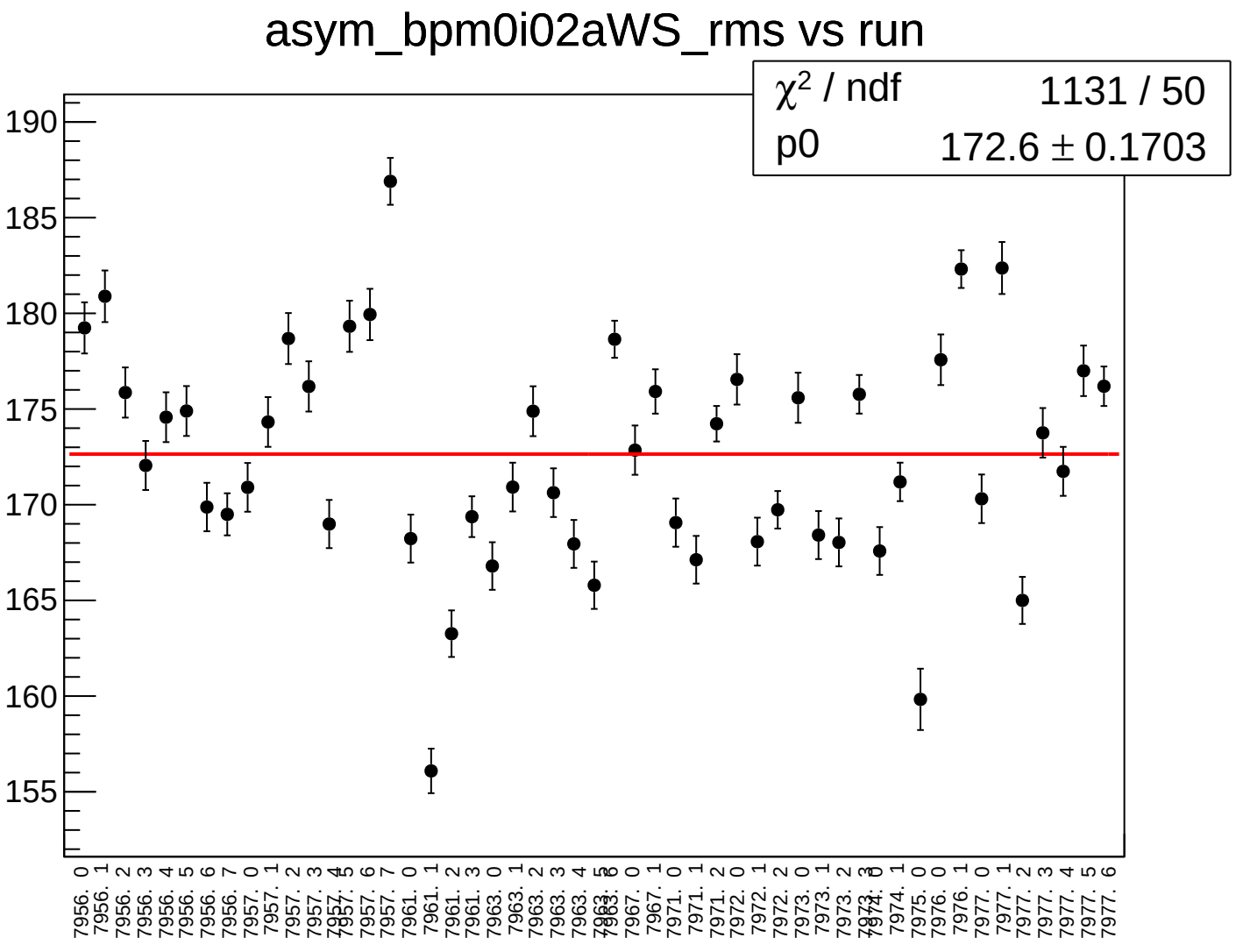
7977. 6


asym_bpm0i02aWS_mean vs run
χ² / ndf 2110 / 50
p0 −1.252e+04 ± 240.8
pull
Entries 51
Mean −408.2
Std Dev 431.9


pull1D
Entries 51
Mean −0.08957
Std Dev 5.827


asym_bpm0i02aWS_rms vs run
χ² / ndf 1131 / 50
p0 172.6 ± 0.1703
190
185
180
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
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7973. 0
7973. 1
7973. 2
7974. 1
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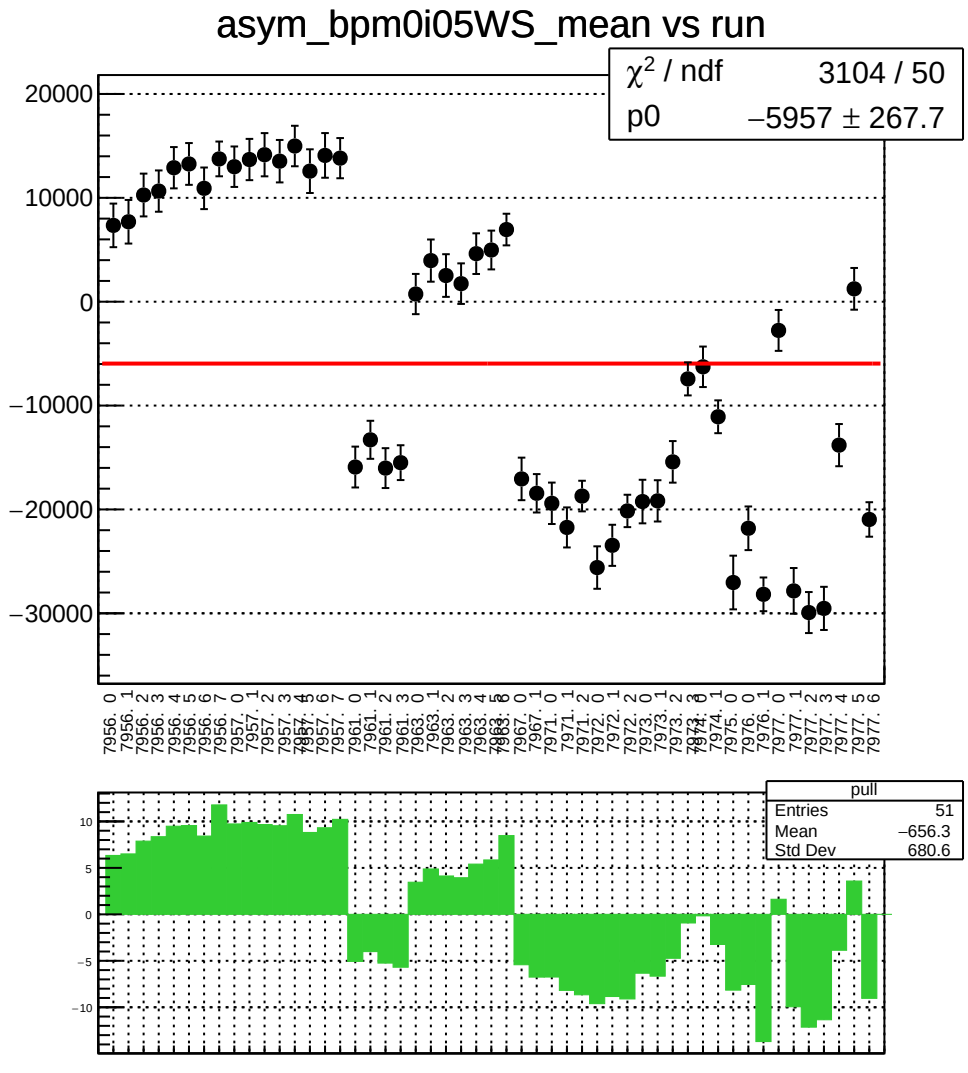
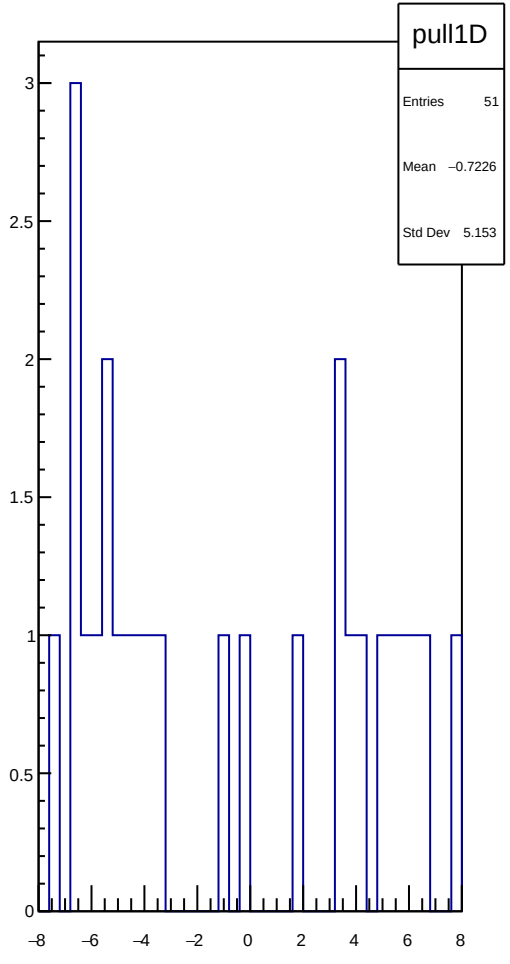
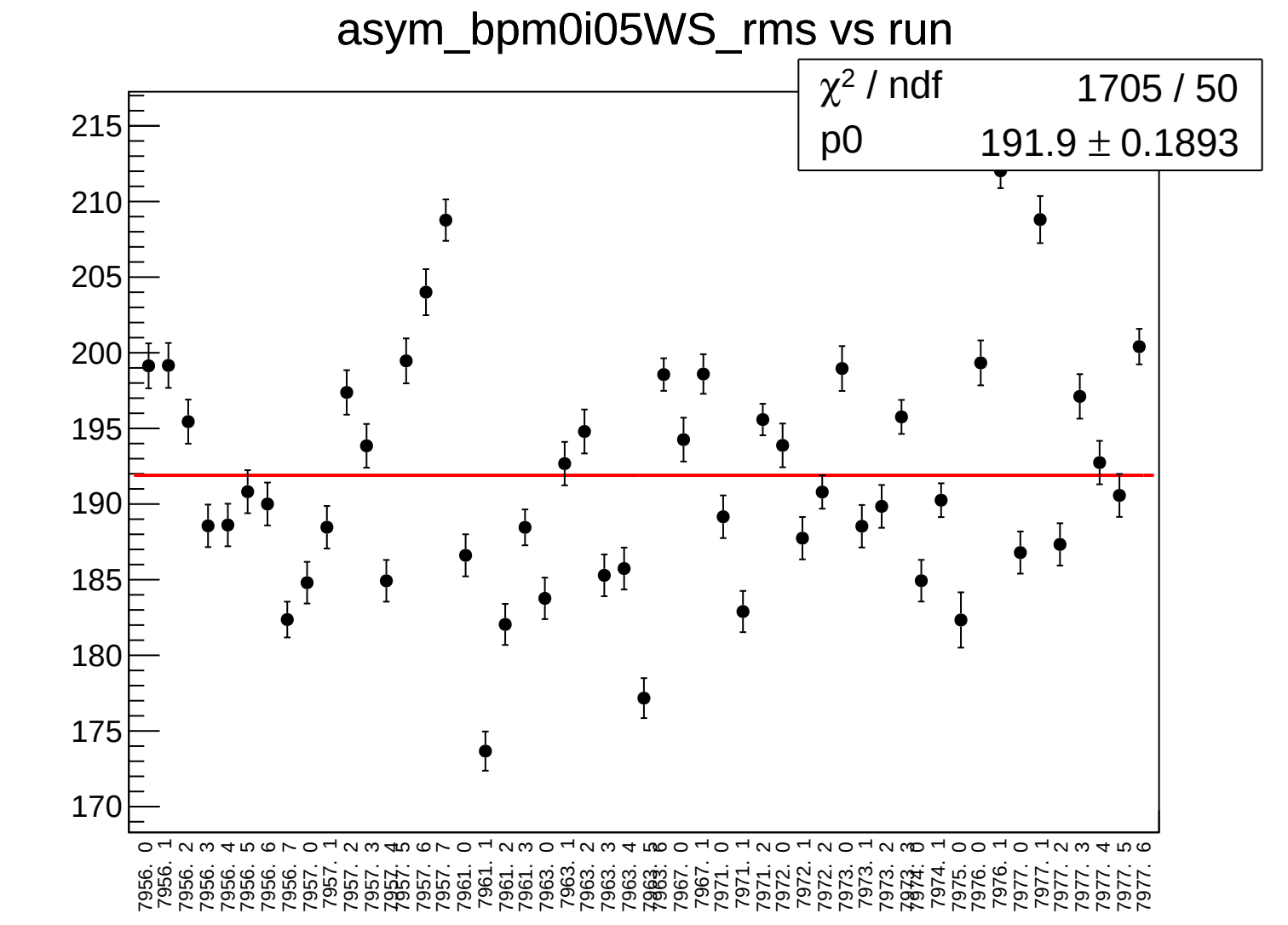
7977. 5
7977. 6


asym_bpm0i05WS_mean vs run
χ² / ndf 3104 / 50
p0 −5957 ± 267.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −656.3
Std Dev 680.6
10
5
0
−5
−10


pull1D
Entries 51
Mean −0.7226
Std Dev 5.153
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1705 / 50
p0 191.9 ± 0.1893
215
210
205
200
195
190
185
180
175
170
7956. 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
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7972. 1
7972. 2
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7973. 1
7973. 2
7973. 3
7974. 0
7974. 1
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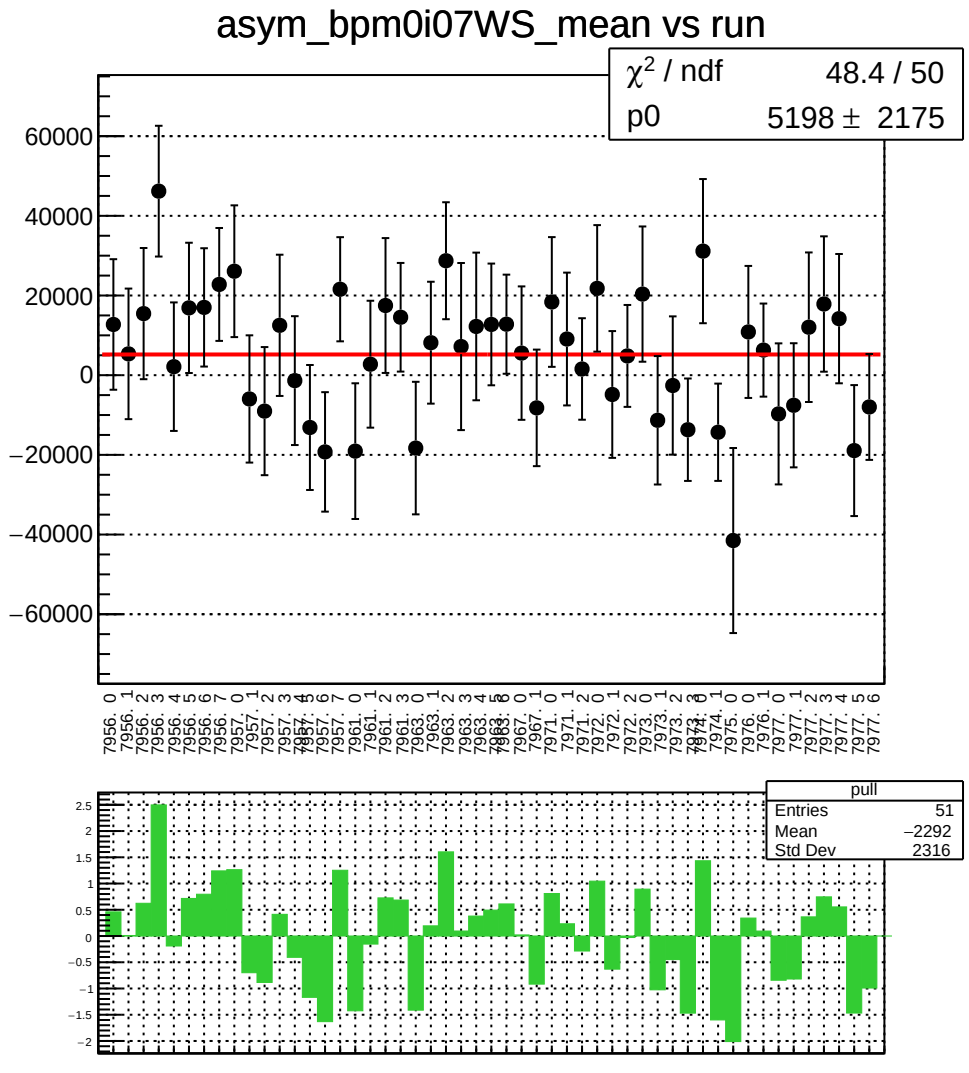
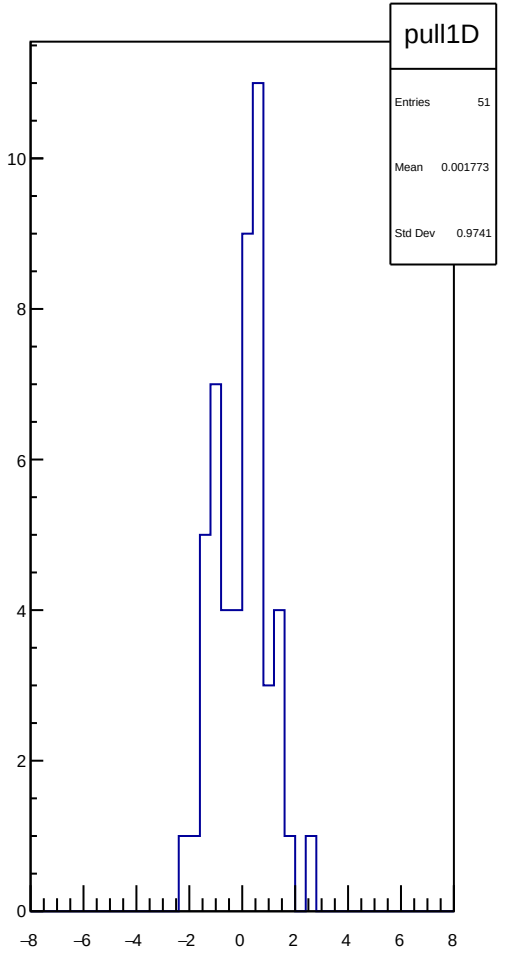
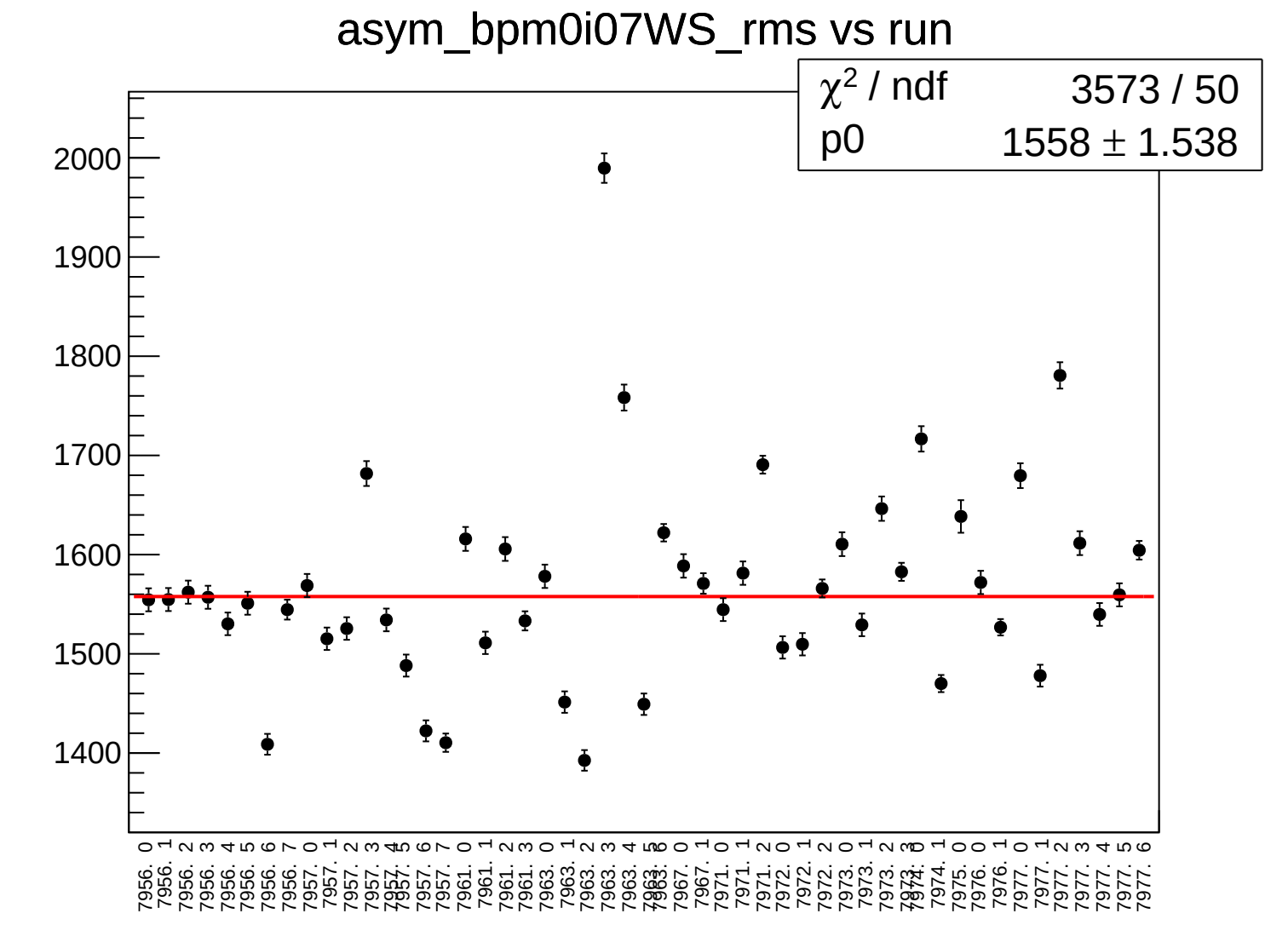
7977. 6


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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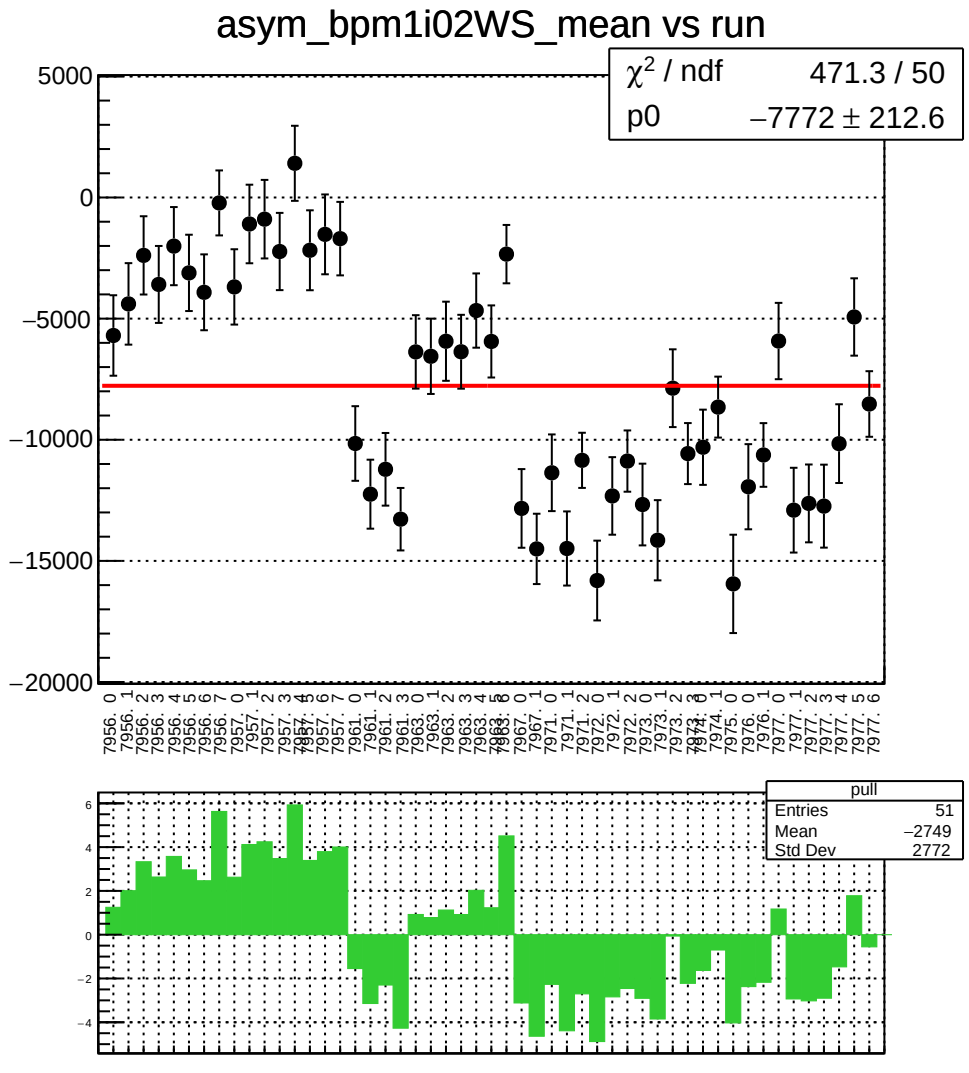
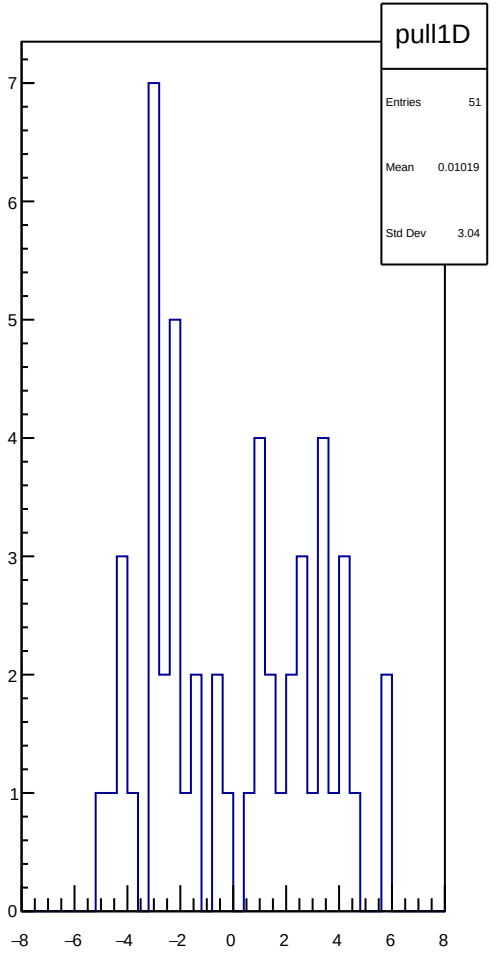
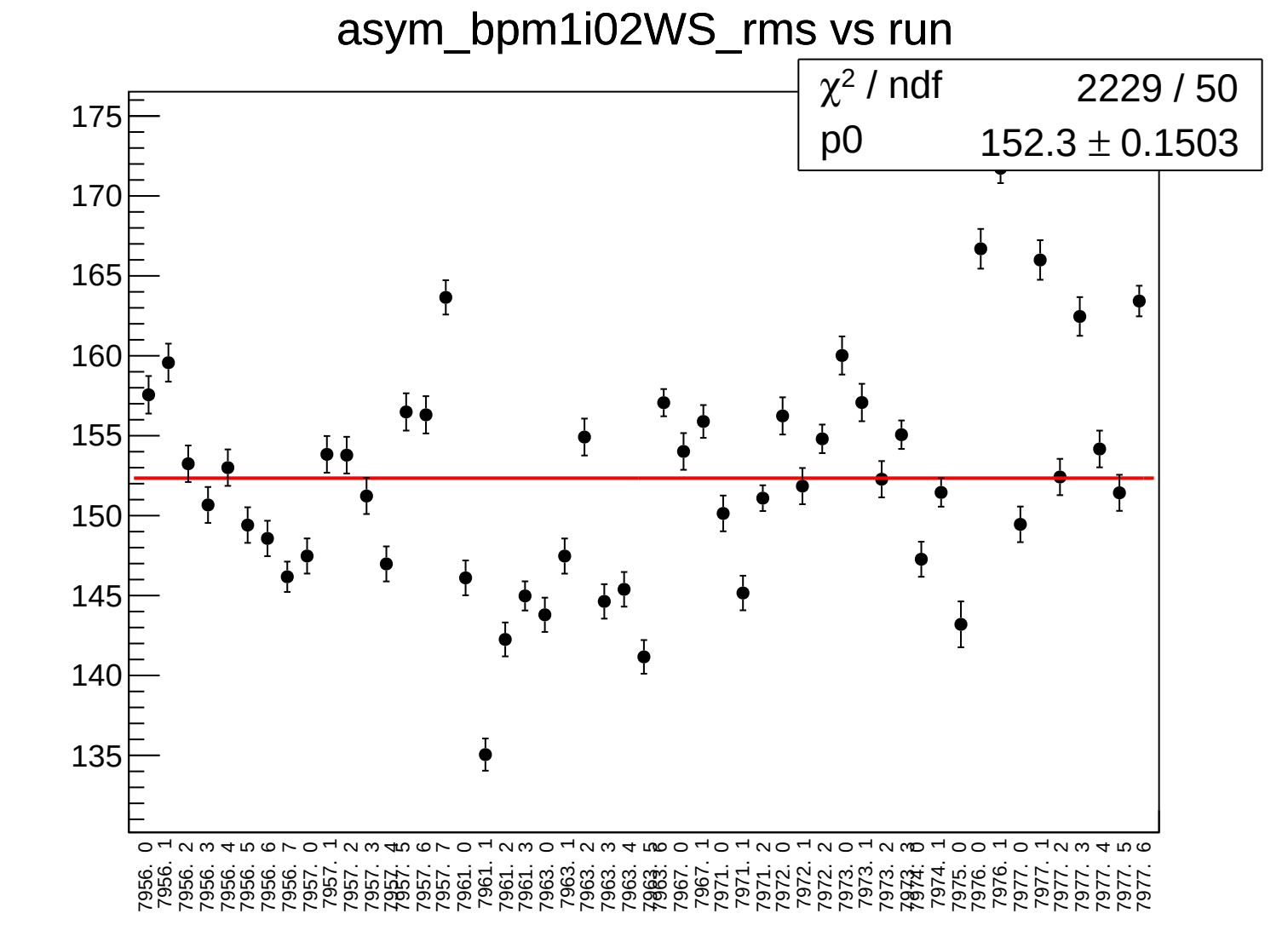
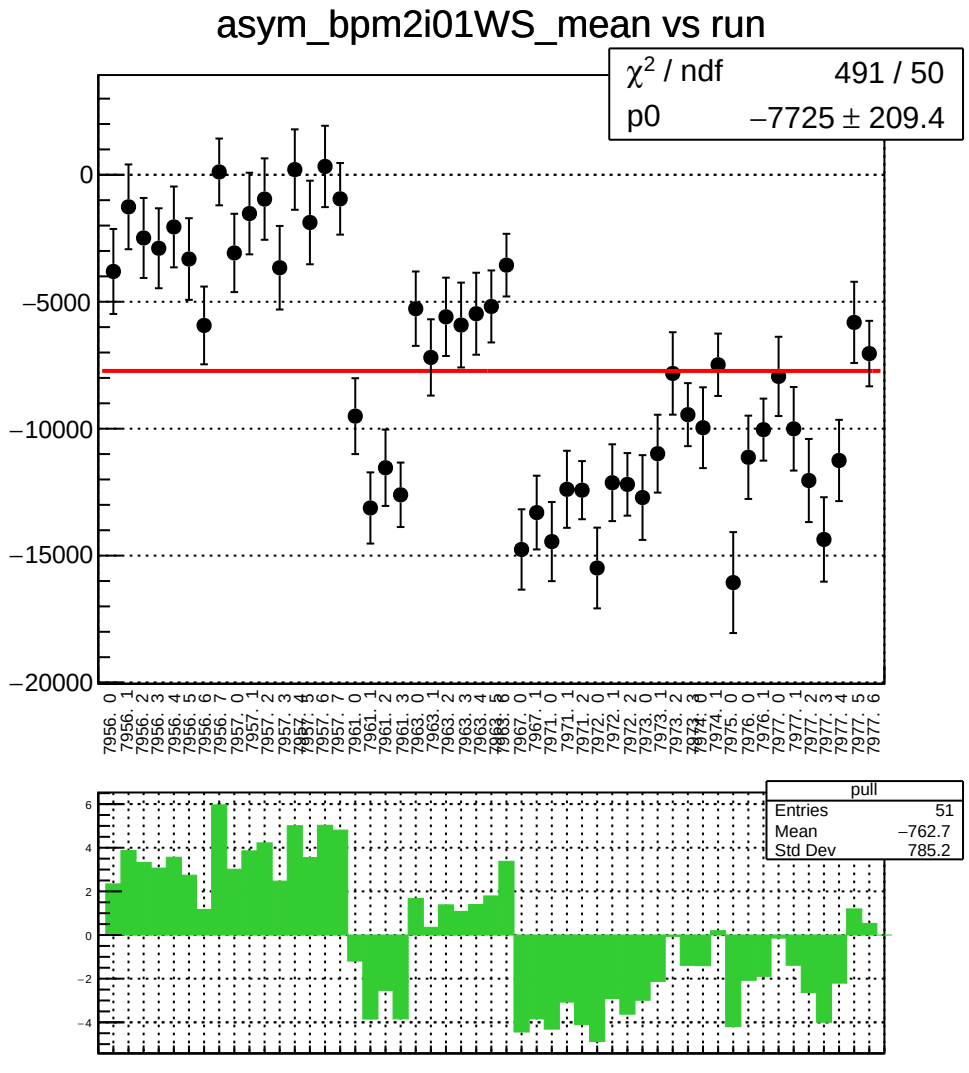
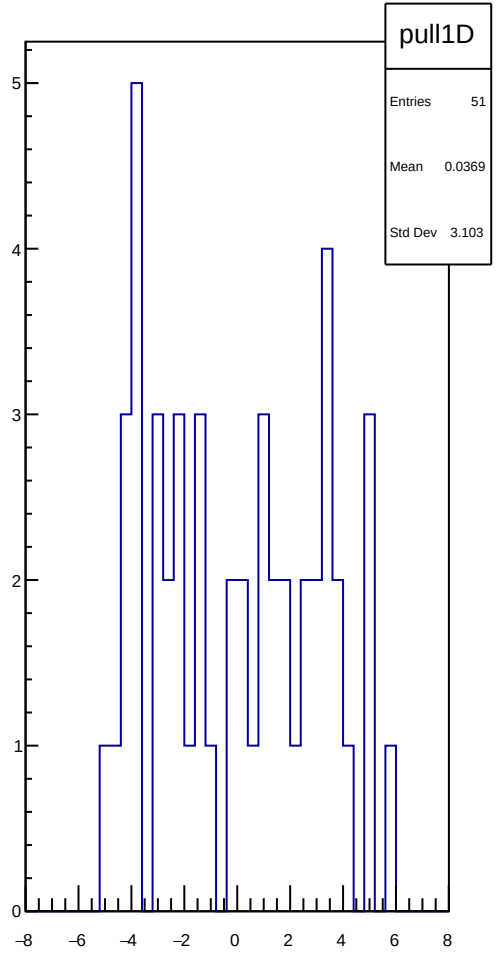
7977. 5
7977. 6

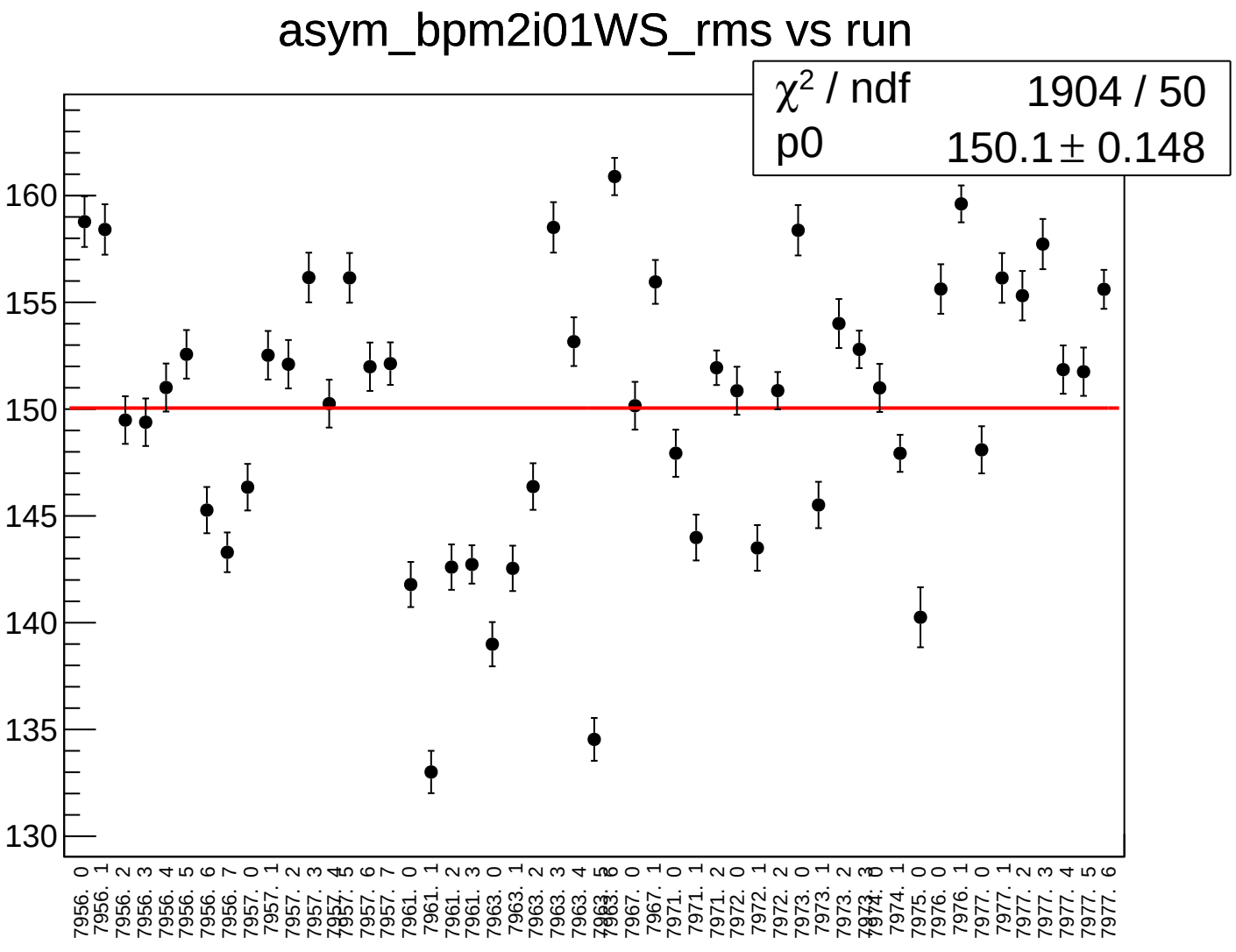

asym_bpm1i02WS_mean vs run
χ² / ndf 471.3 / 50
p0 −7772 ± 212.6
pull
Entries 51
Mean −2749
Std Dev 2772


pull1D
Entries 51
Mean 0.01019
Std Dev 3.04


asym_bpm1i02WS_rms vs run
χ² / ndf 2229 / 50
p0 152.3 ± 0.1503
175
170
165
160
155
150
145
140
135
7956. 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_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
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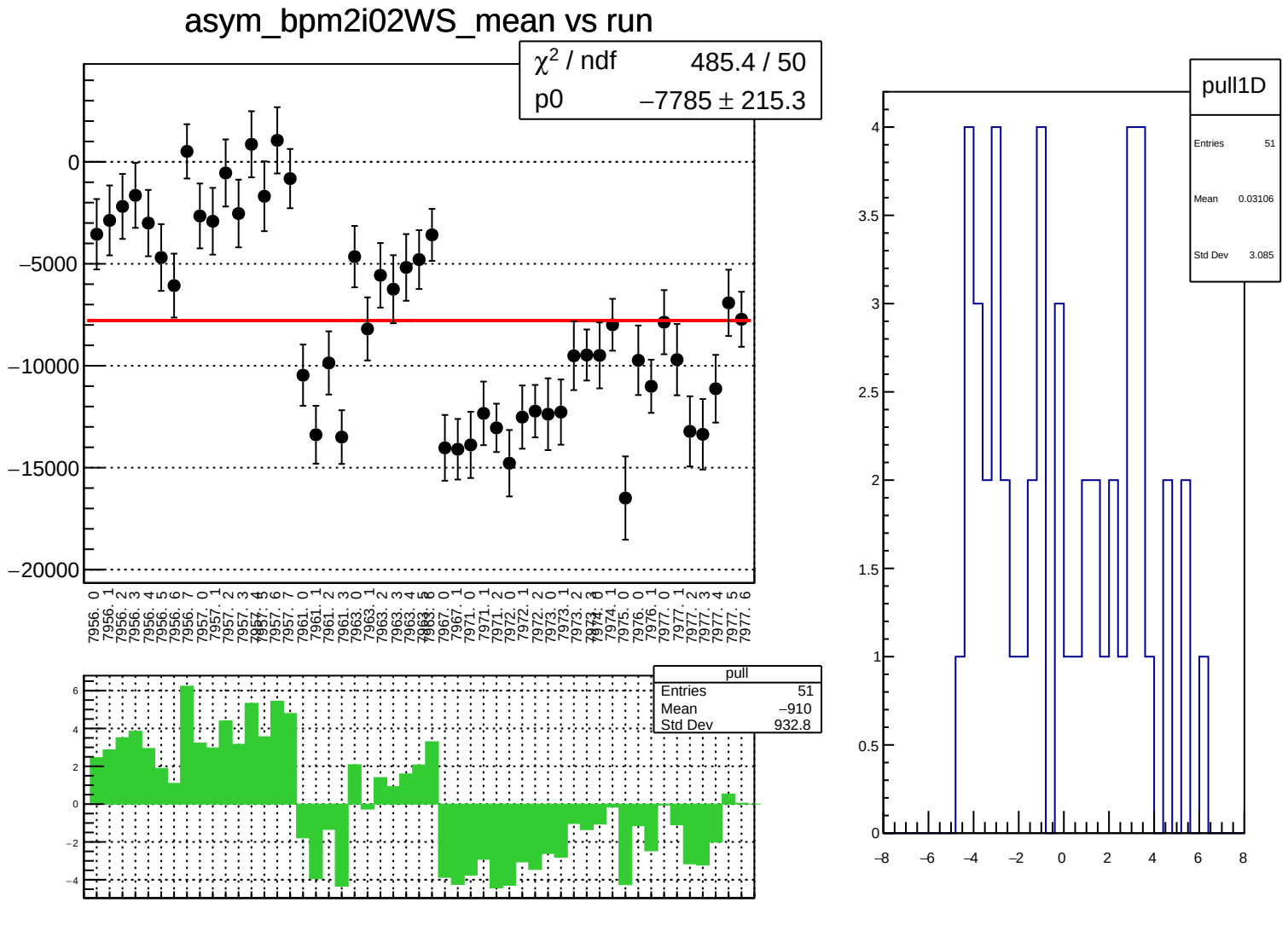
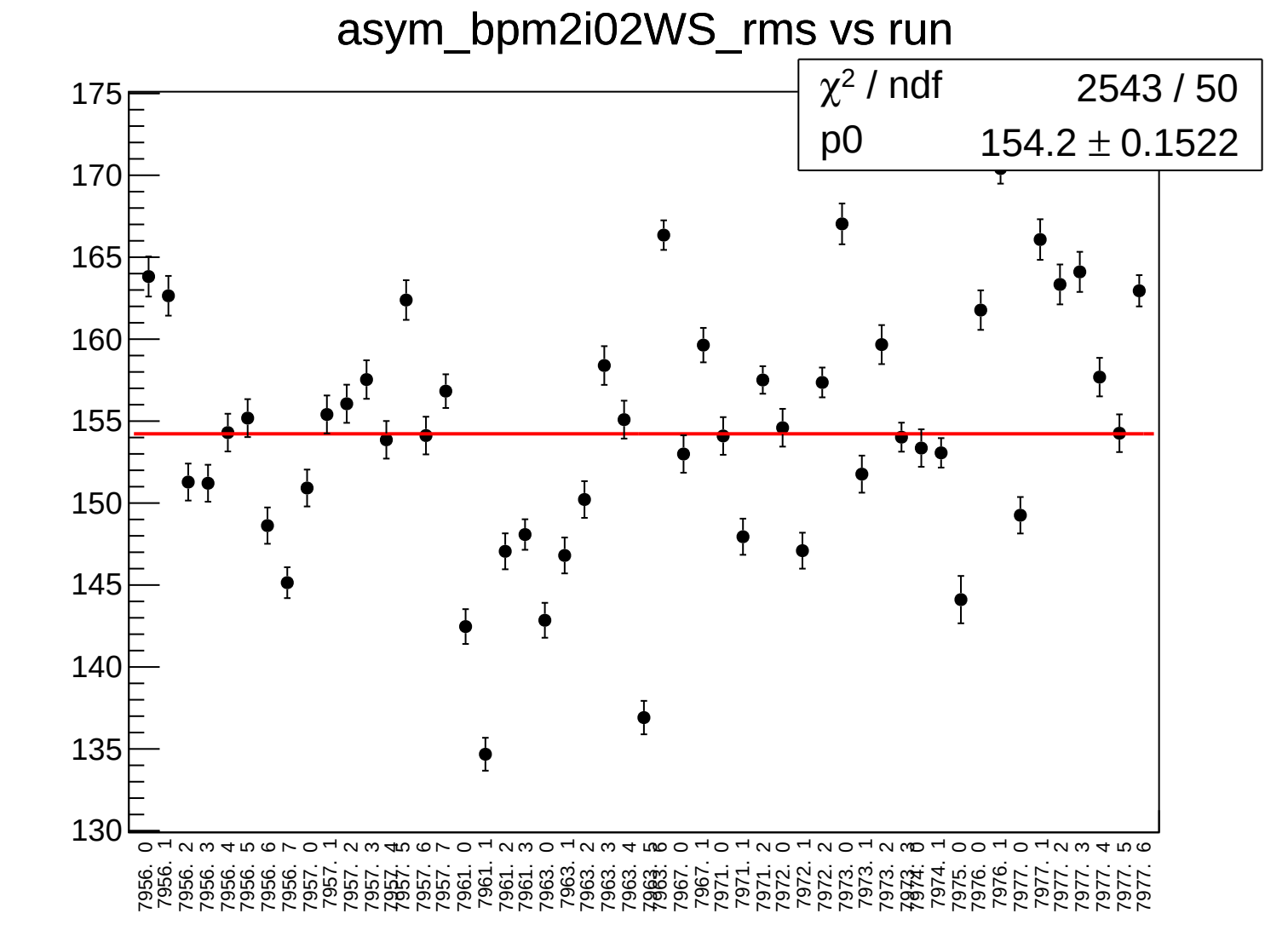
7977. 3
7977. 4
7977. 5
7977. 6


asym_bpm2i02WS_mean vs run
χ² / ndf 485.4 / 50
p0 −7785 ± 215.3
0
−5000
−10000
−15000
−20000
pull
Entries 51
Mean −910
Std Dev 932.8
pull1D
Entries 51
Mean 0.03106
Std Dev 3.085


asym_bpm2i02WS_rms vs run
χ² / ndf 2543 / 50
p0 154.2 ± 0.1522
175
170
165
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. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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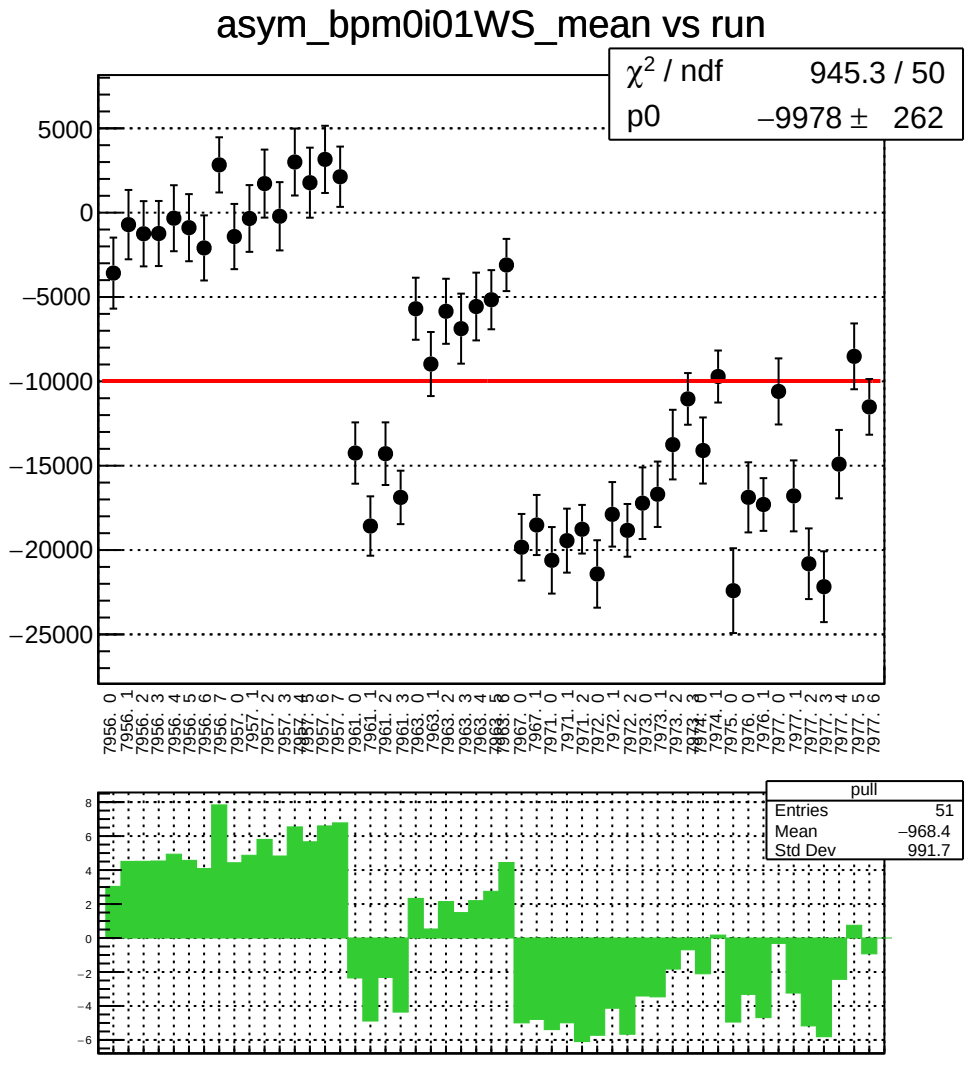
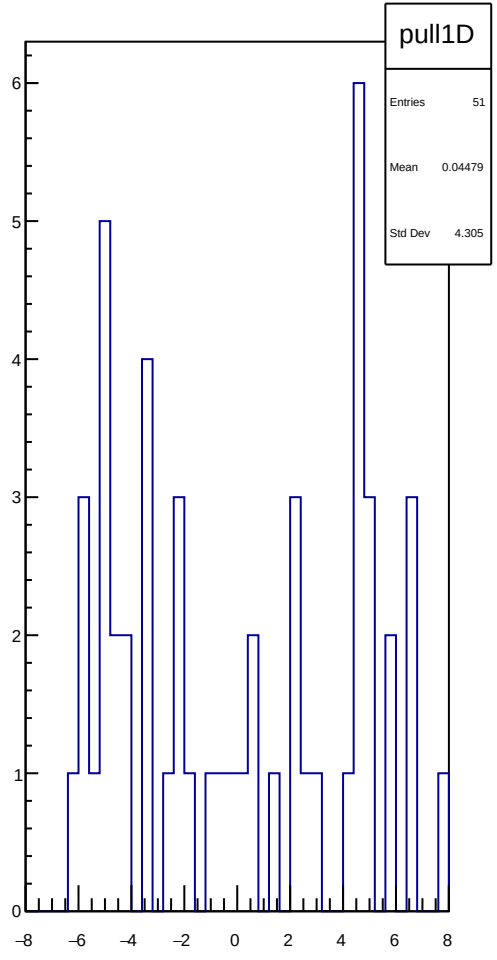
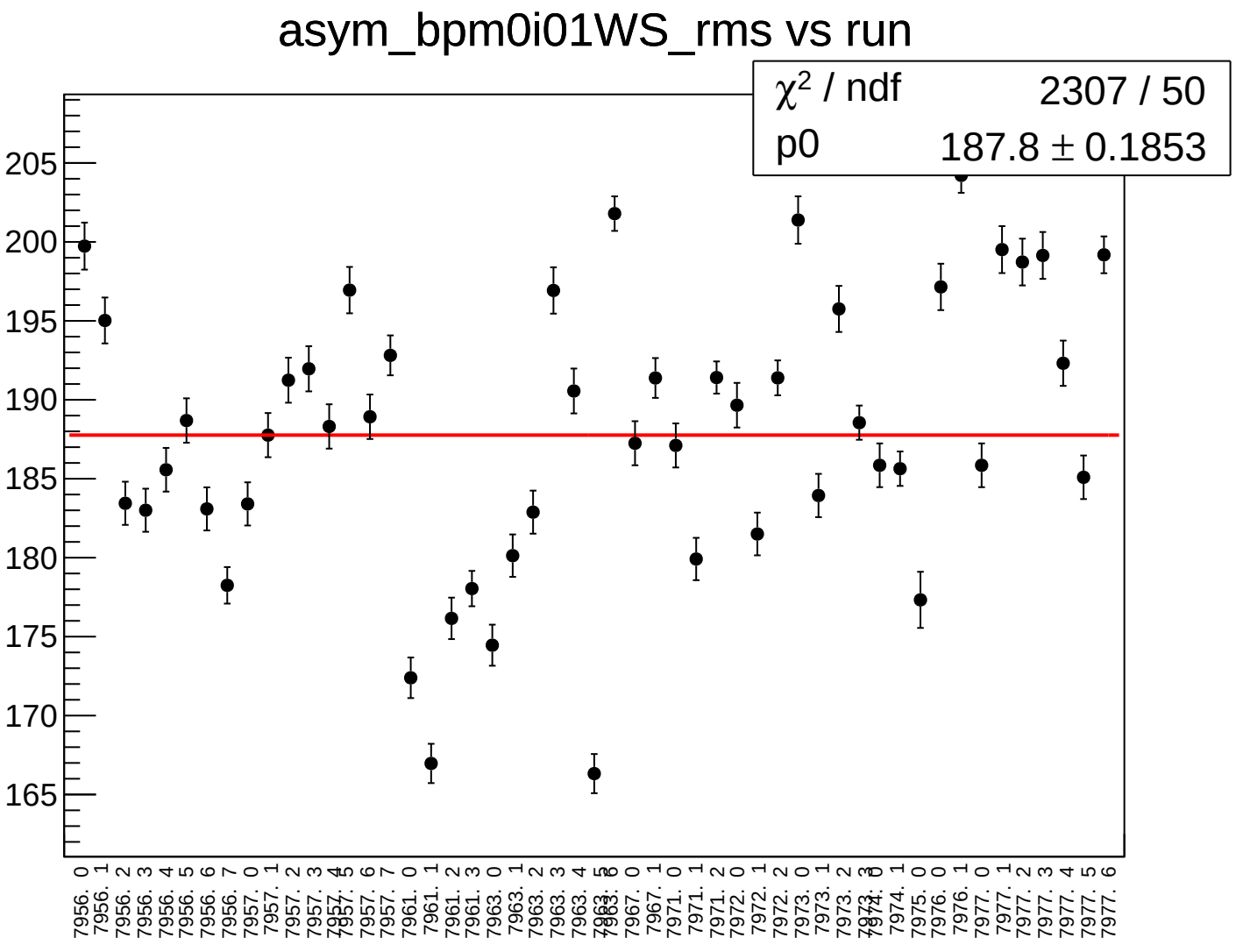
7977. 5
7977. 6


asym_bpm0i01WS_mean vs run
χ² / ndf 945.3 / 50
p0 −9978 ± 262
pull
Entries 51
Mean −968.4
Std Dev 991.7


pull1D
Entries 51
Mean 0.04479
Std Dev 4.305


asym_bpm0i01WS_rms vs run
χ² / ndf 2307 / 50
p0 187.8 ± 0.1853
205
200
195
190
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. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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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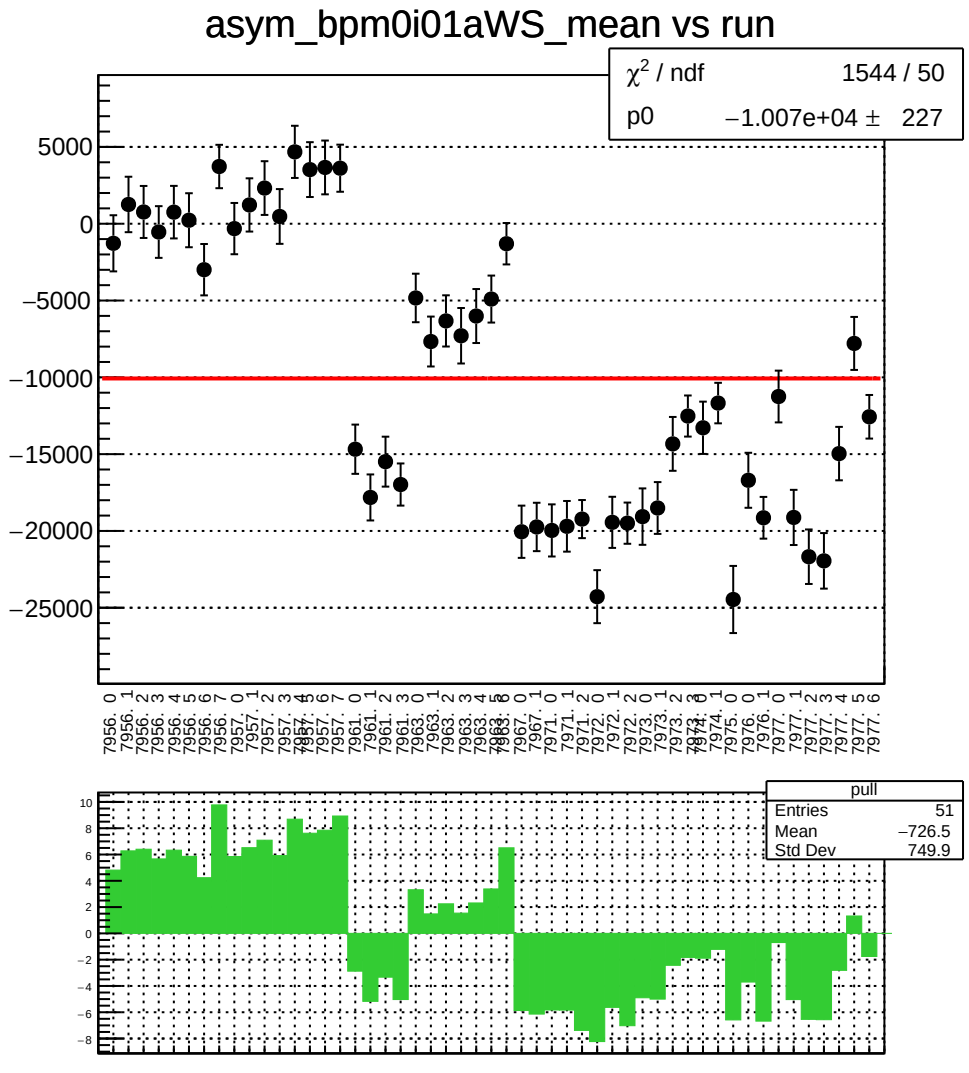
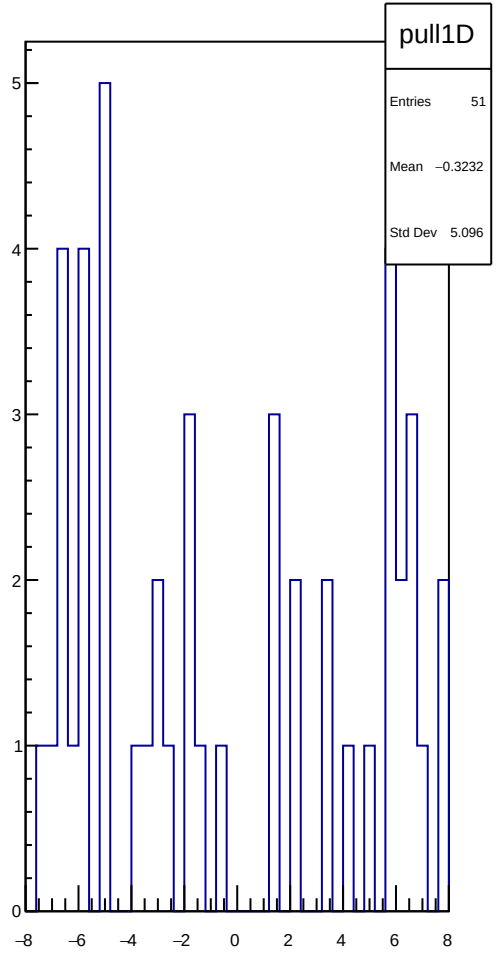
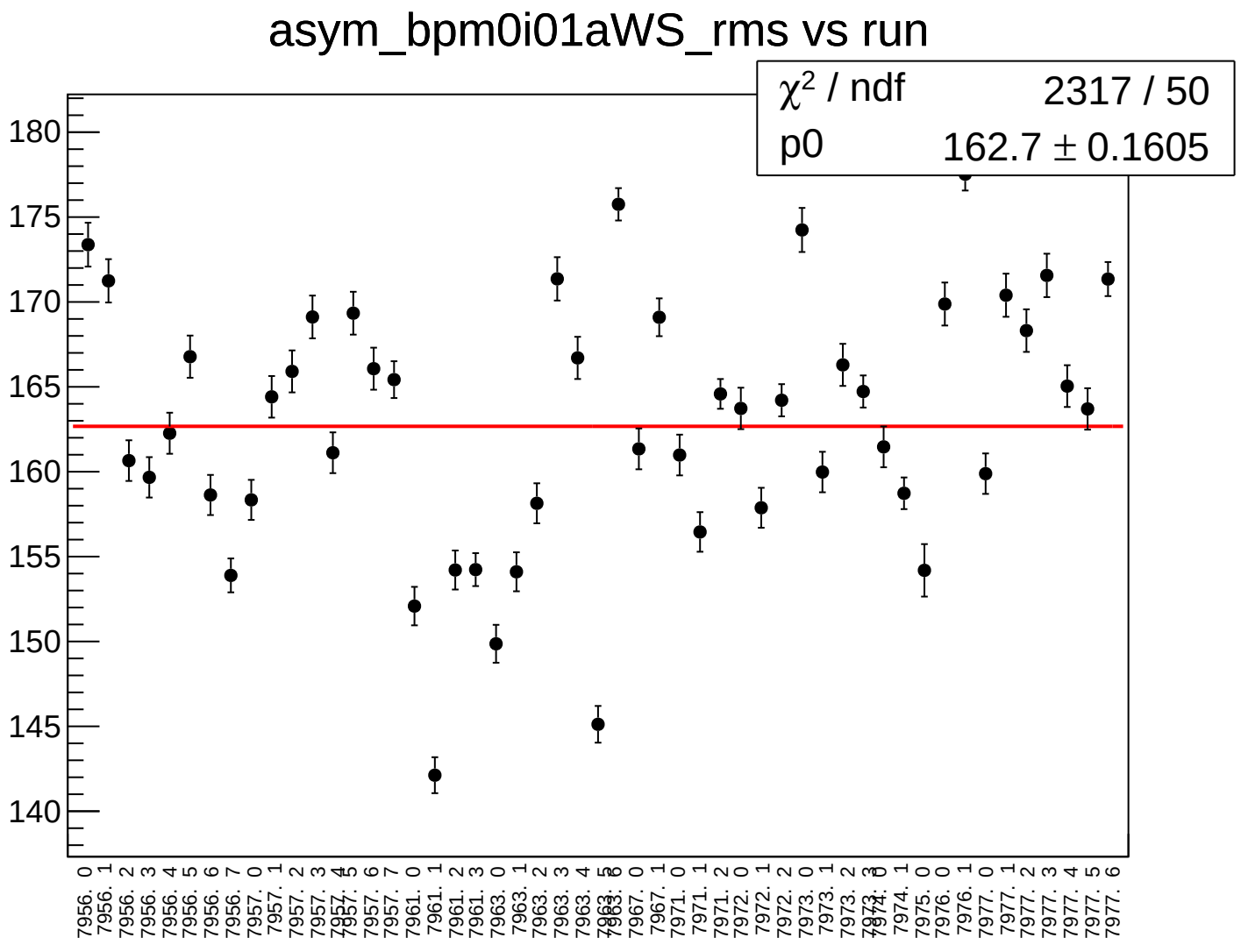
7977. 5
7977. 6


asym_bpm0i01aWS_mean vs run
χ² / ndf 1544 / 50
p0 −1.007e+04 ± 227
pull
Entries 51
Mean −726.5
Std Dev 749.9


pull1D
Entries 51
Mean −0.3232
Std Dev 5.096


asym_bpm0i01aWS_rms vs run
χ² / ndf 2317 / 50
p0 162.7 ± 0.1605
180
175
170
165
160
155
150
145
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. 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. 0
7976. 1
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7977. 3
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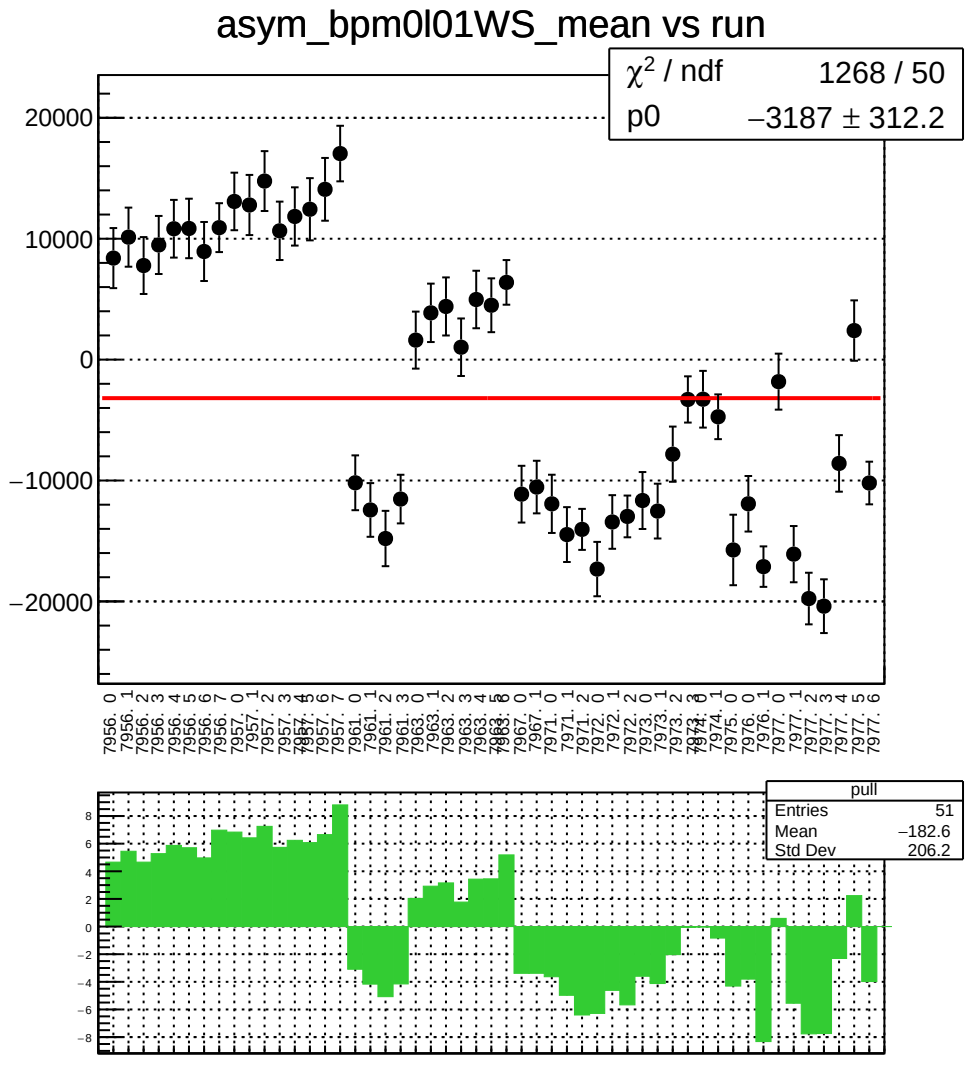
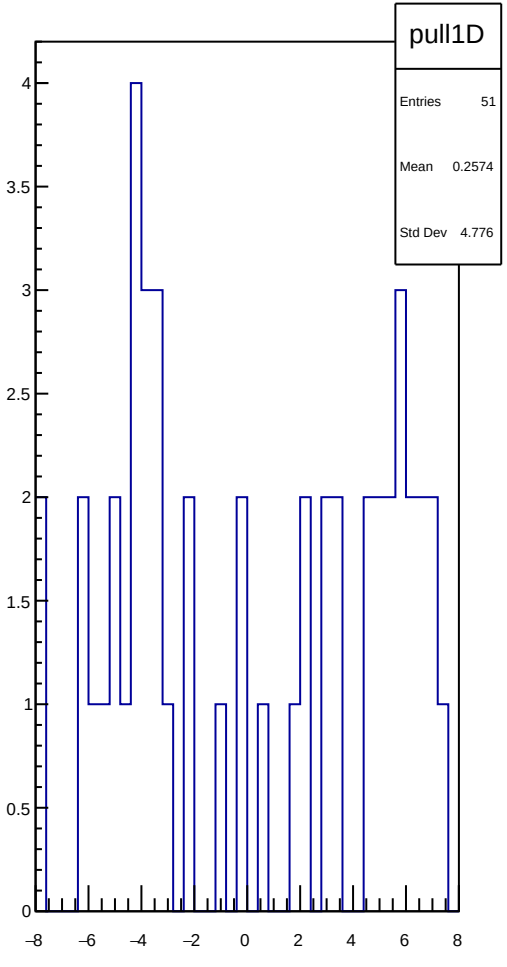
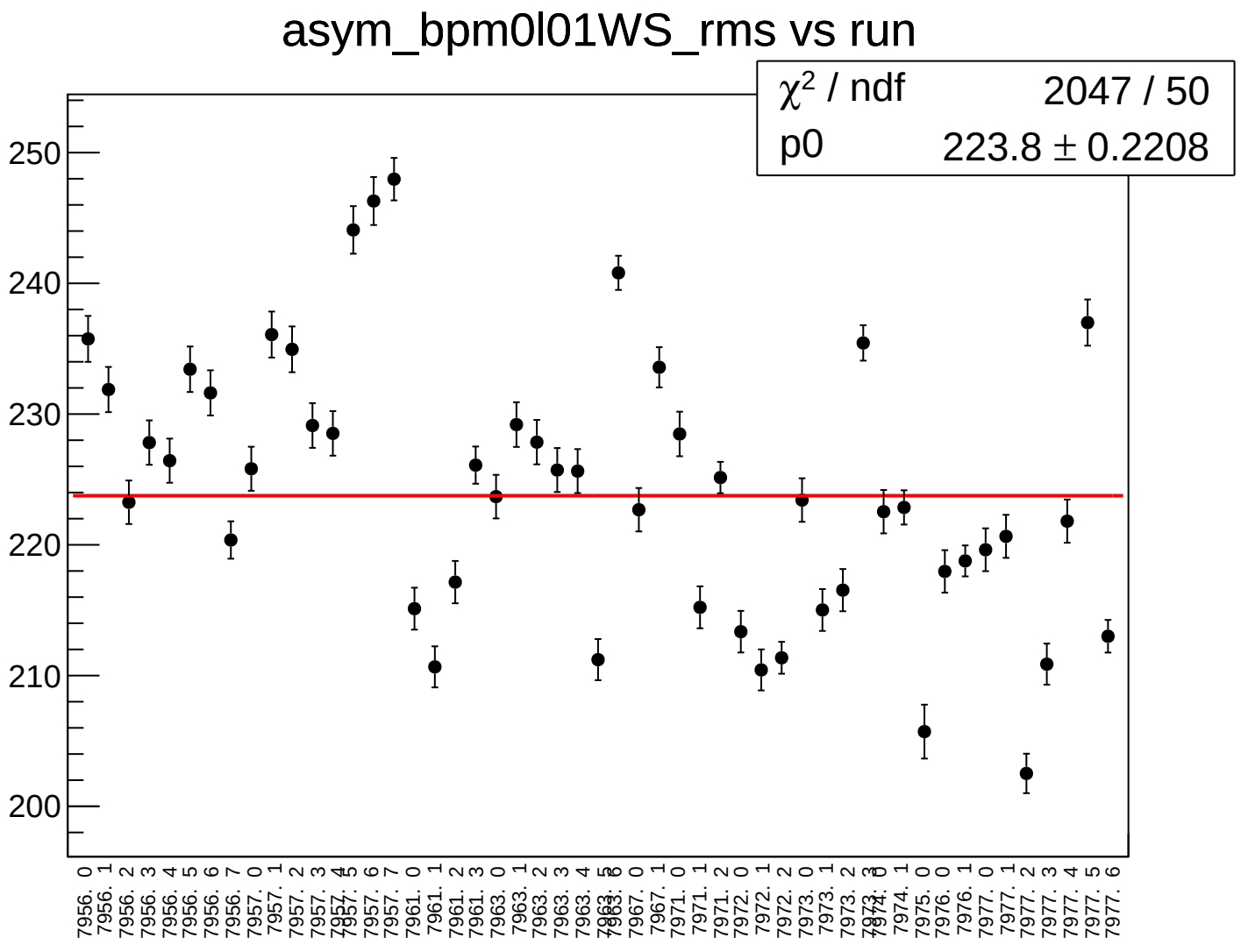
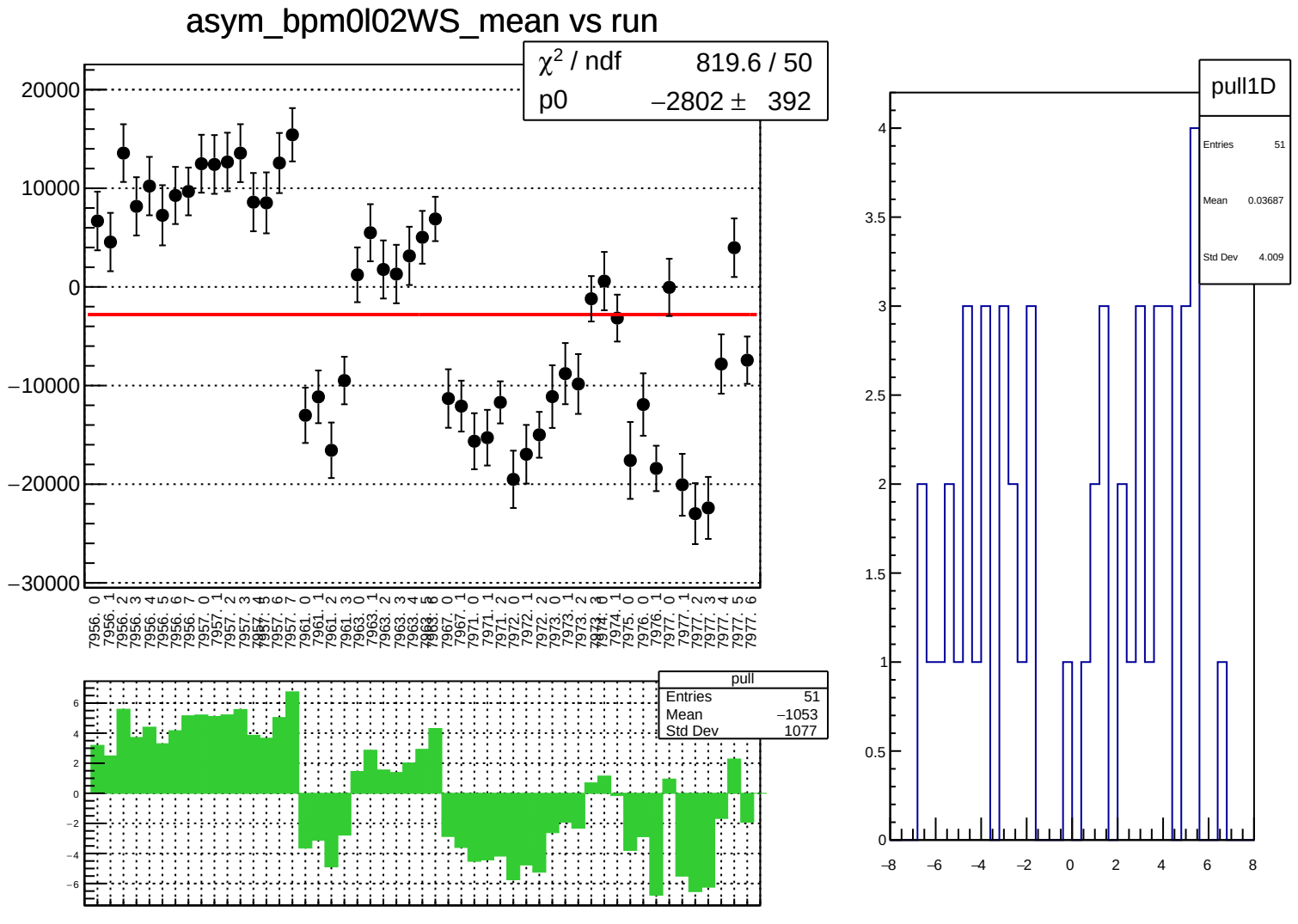
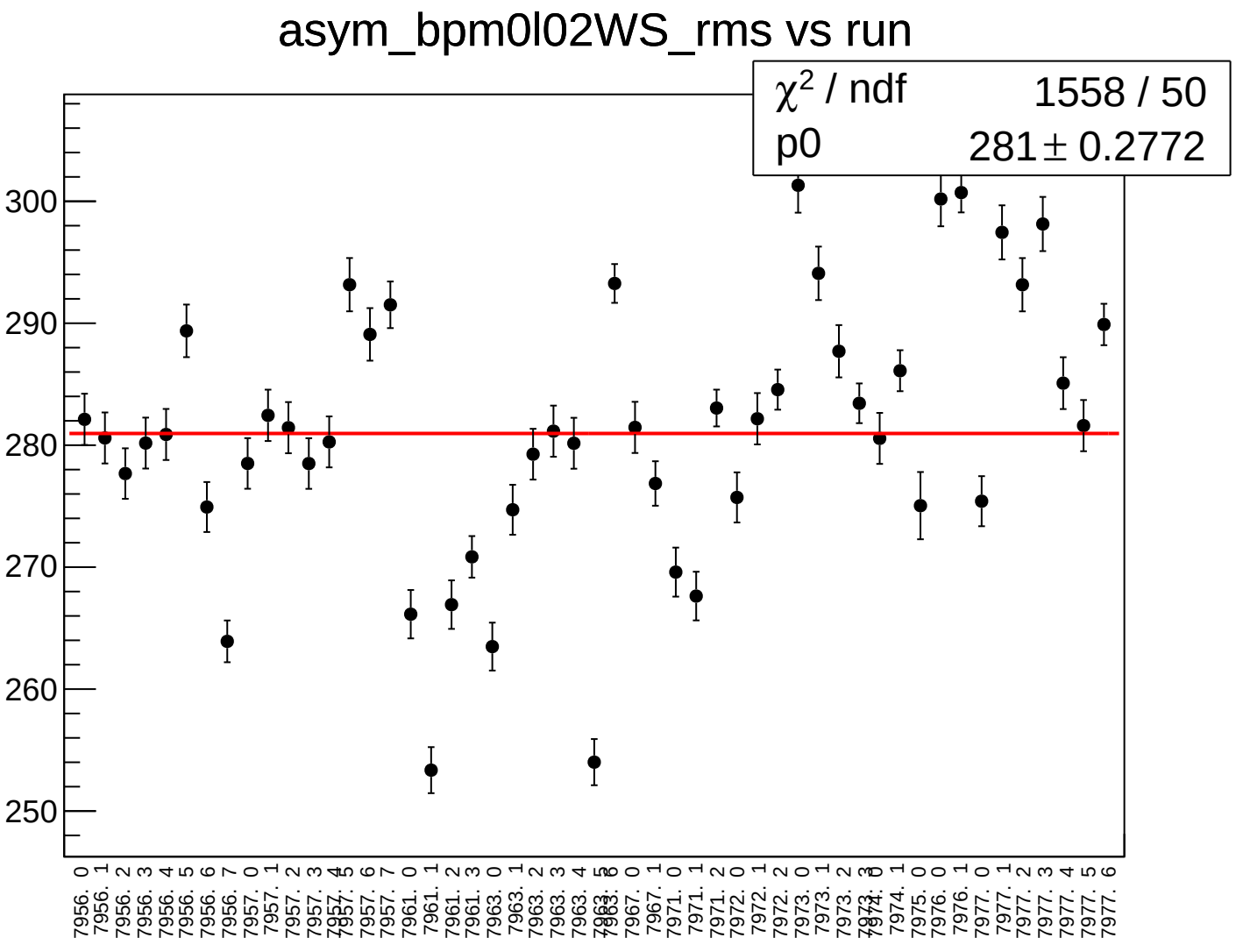
7977. 5
7977. 6


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


asym_bpm0l02WS_mean vs run
χ² / ndf 819.6 / 50
p0 −2802 ± 392
pull
Entries 51
Mean −1053
Std Dev 1077
pull1D
Entries 51
Mean 0.03687
Std Dev 4.009


asym_bpm0l02WS_rms vs run
χ² / ndf 1558 / 50
p0 281 ± 0.2772
300
290
280
270
260
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
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7977. 3
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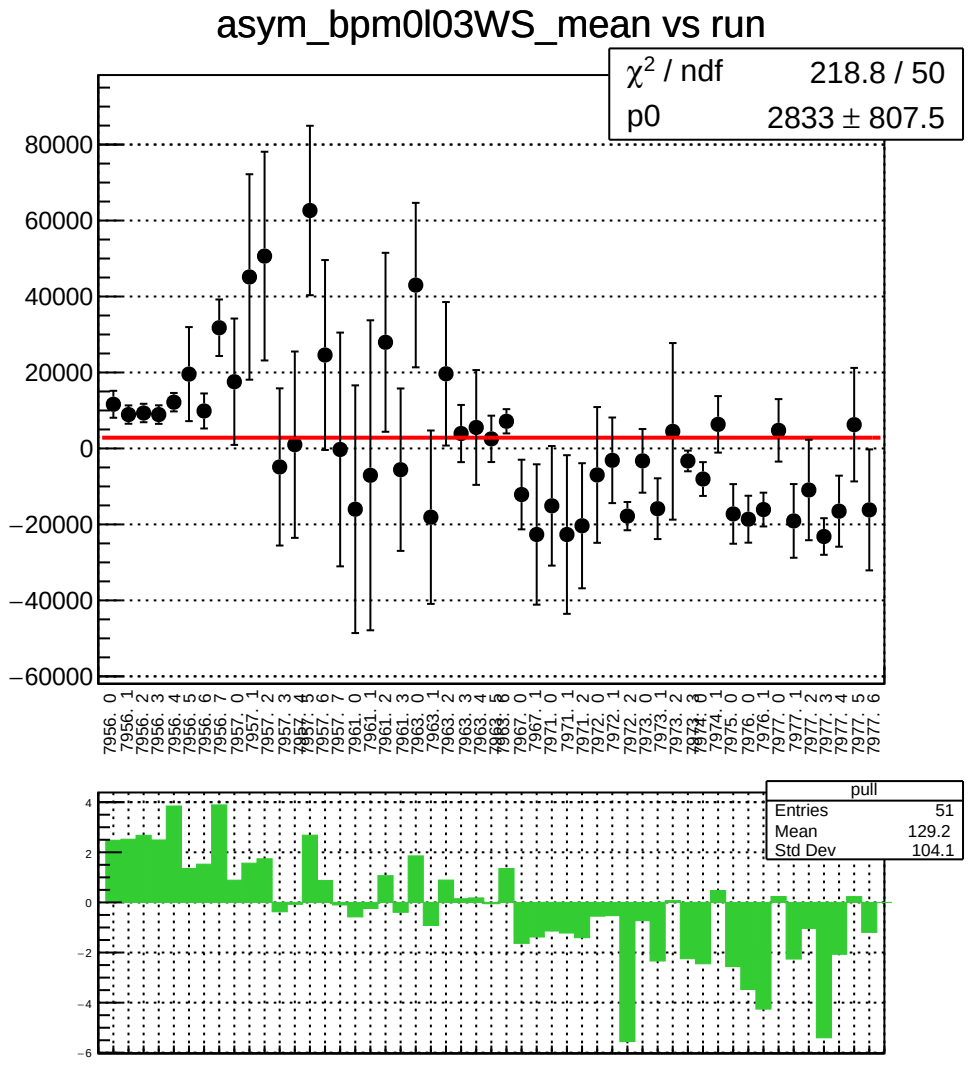
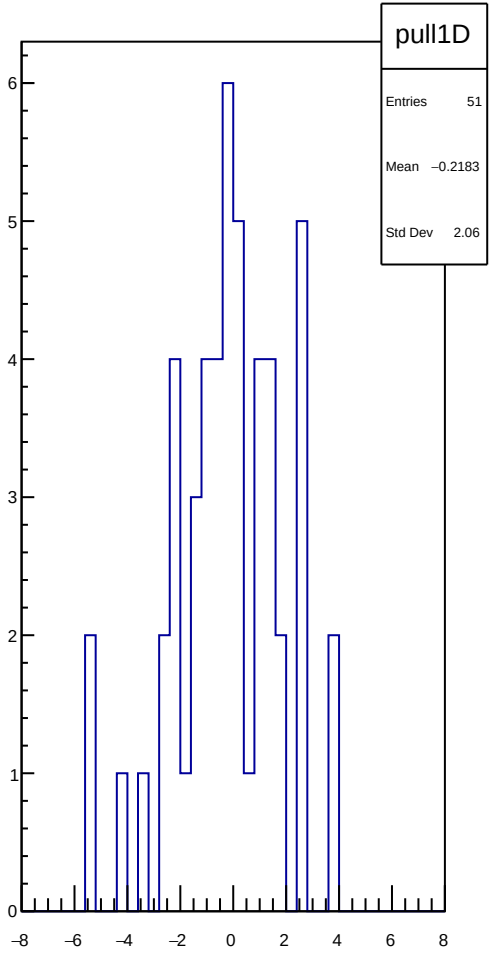
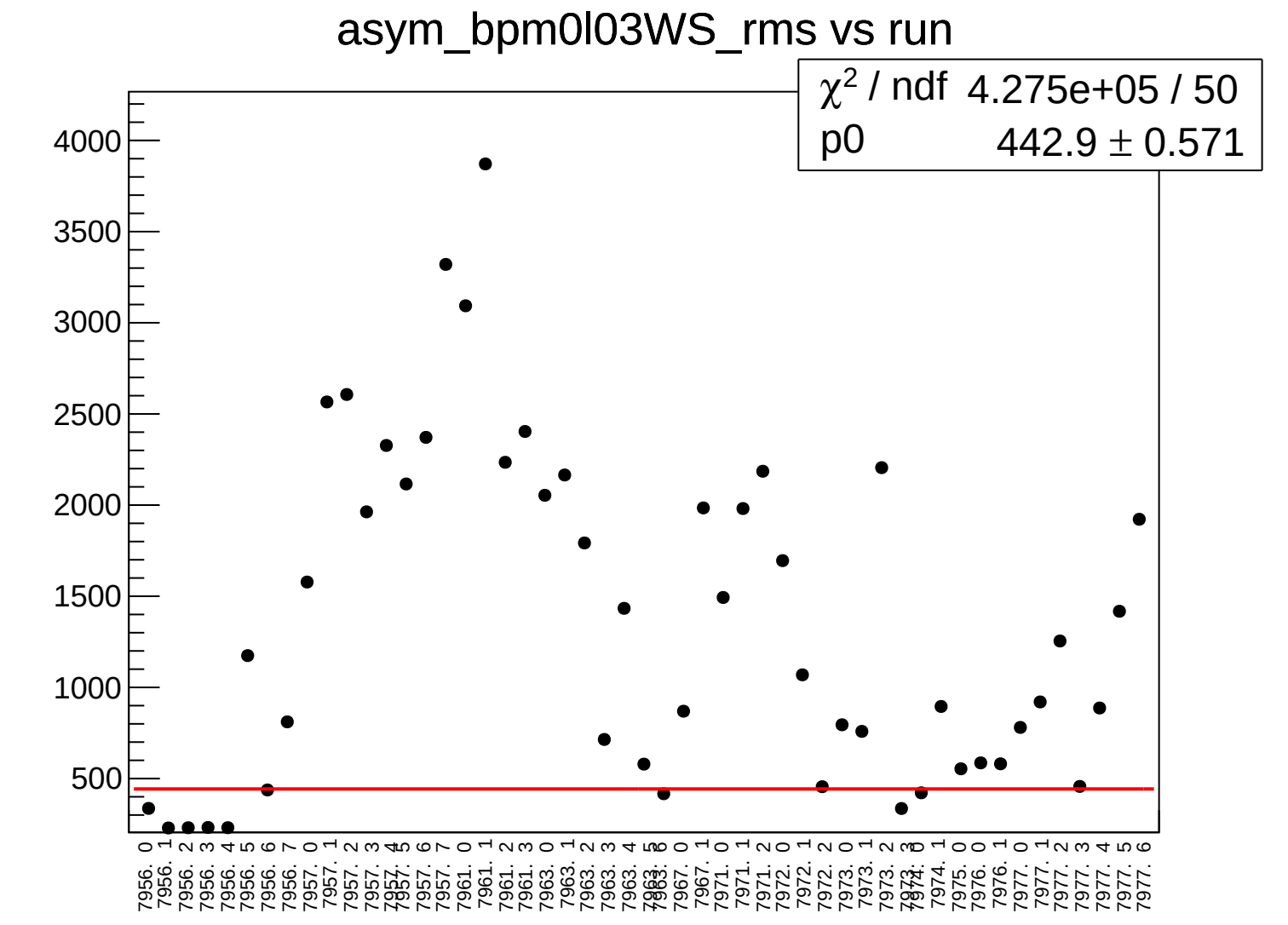
7977. 5
7977. 6


asym_bpm0l03WS_mean vs run
χ² / ndf 218.8 / 50
p0 2833 ± 807.5
pull
Entries 51
Mean 129.2
Std Dev 104.1


pull1D
Entries 51
Mean −0.2183
Std Dev 2.06


asym_bpm0l03WS_rms vs run
χ^2 / ndf 4.275e+05 / 50
p0 442.9 ± 0.571
4000
3500
3000
2500
2000
1500
1000
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
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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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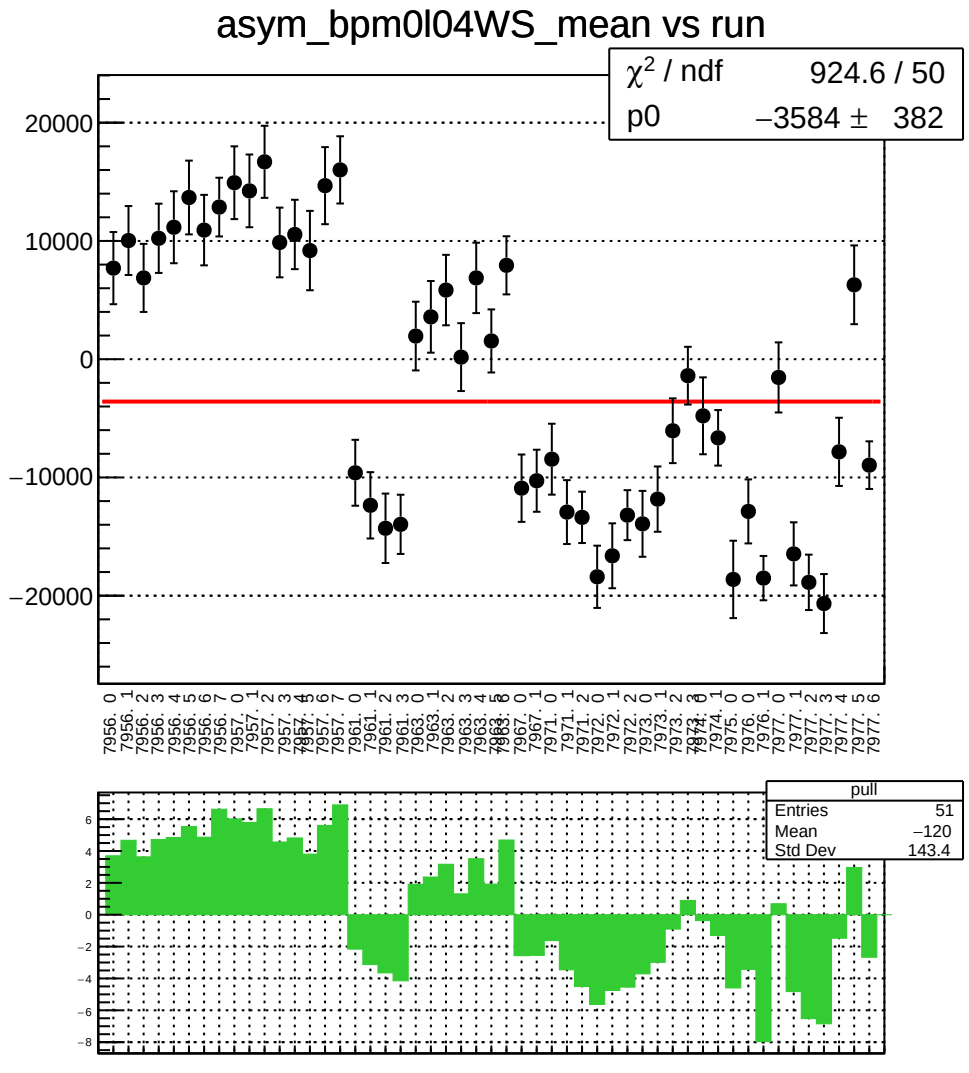
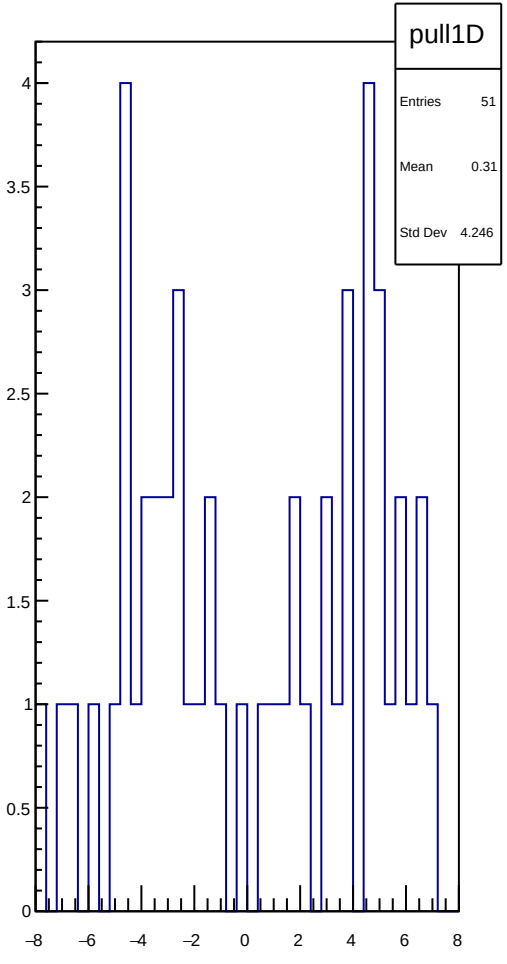
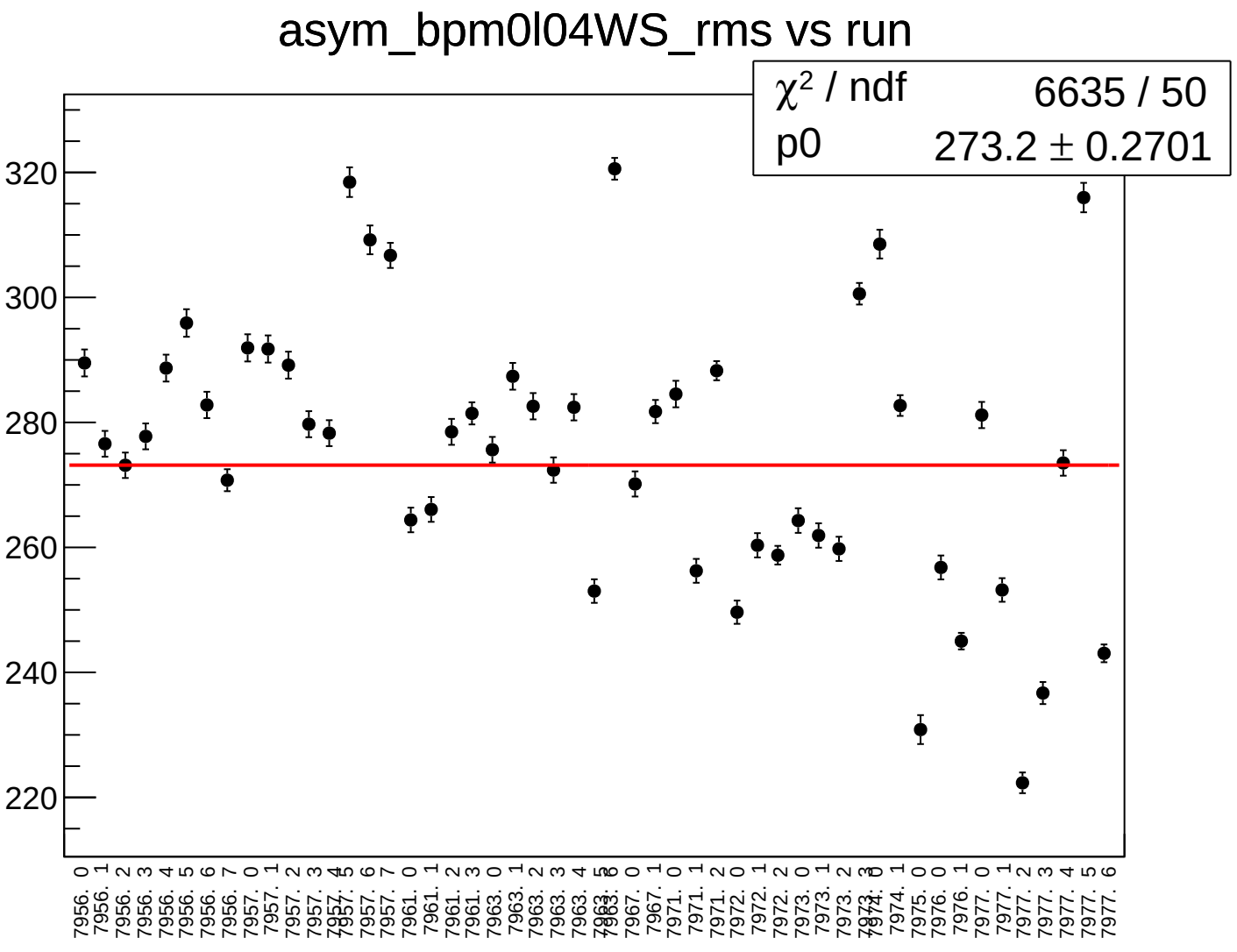
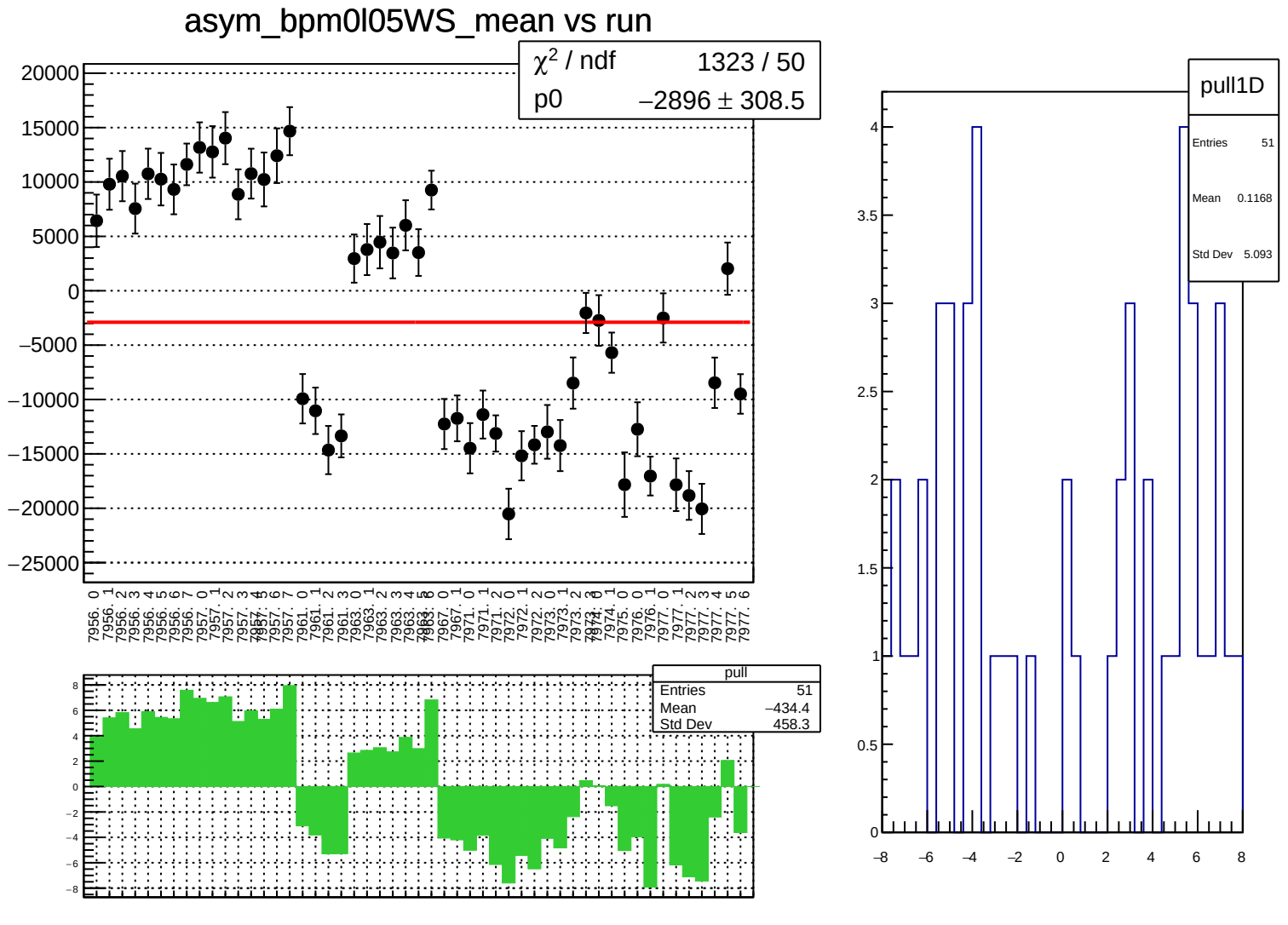
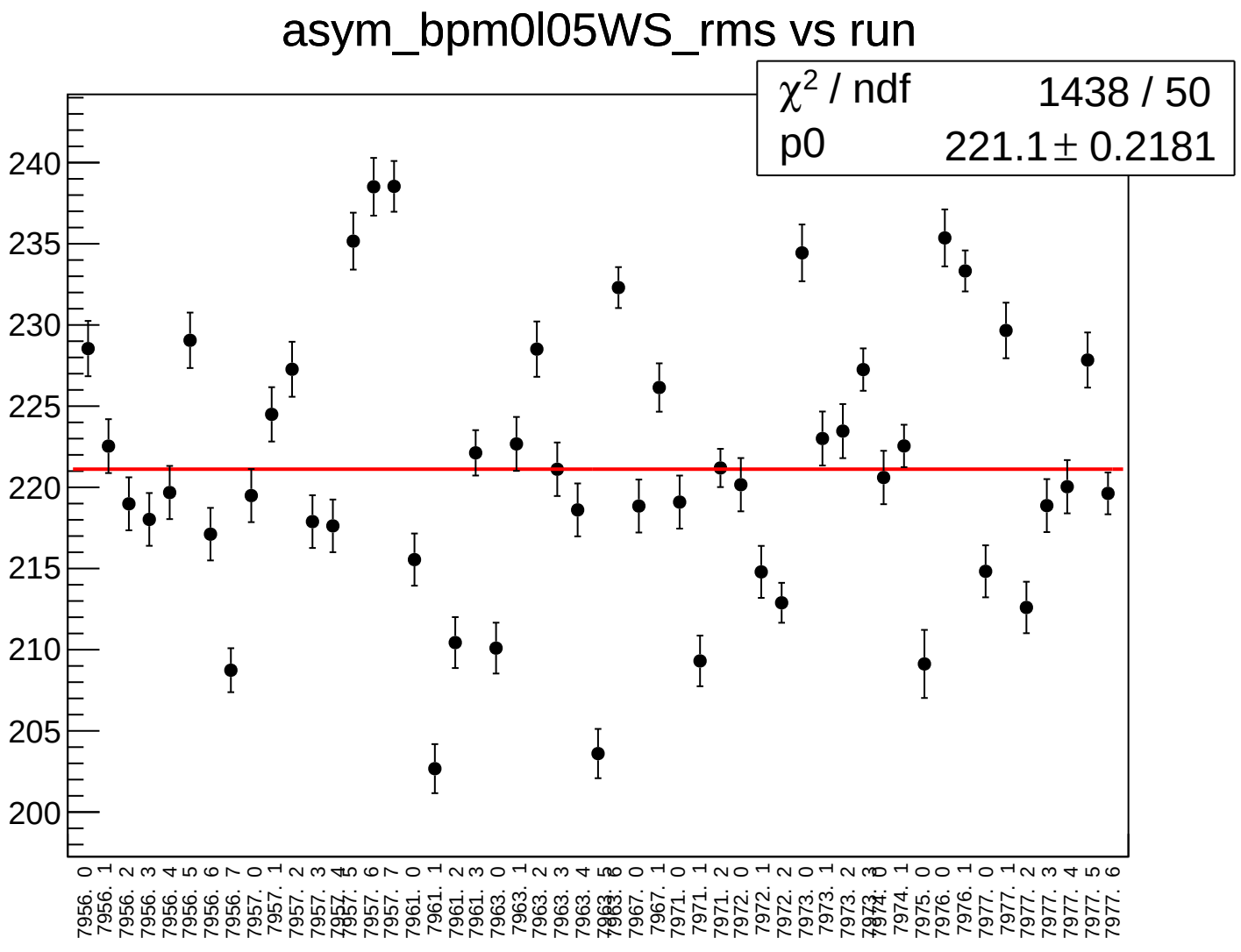
7977. 5
7977. 6


asym_bpm0l04WS_mean vs run
χ^2 / ndf 924.6 / 50
p0 −3584 ± 382
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −120
Std Dev 143.4
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 51
Mean 0.31
Std Dev 4.246
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l04WS_rms vs run
χ² / ndf 6635 / 50
p0 273.2 ± 0.2701
320
300
280
260
240
220
7956. 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_bpm0l05WS_mean vs run
χ² / ndf 1323 / 50
p0 −2896 ± 308.5
pull
Entries 51
Mean −434.4
Std Dev 458.3
pull1D
Entries 51
Mean 0.1168
Std Dev 5.093


asym_bpm0l05WS_rms vs run
χ² / ndf 1438 / 50
p0 221.1 ± 0.2181
240
235
230
225
220
215
210
205
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
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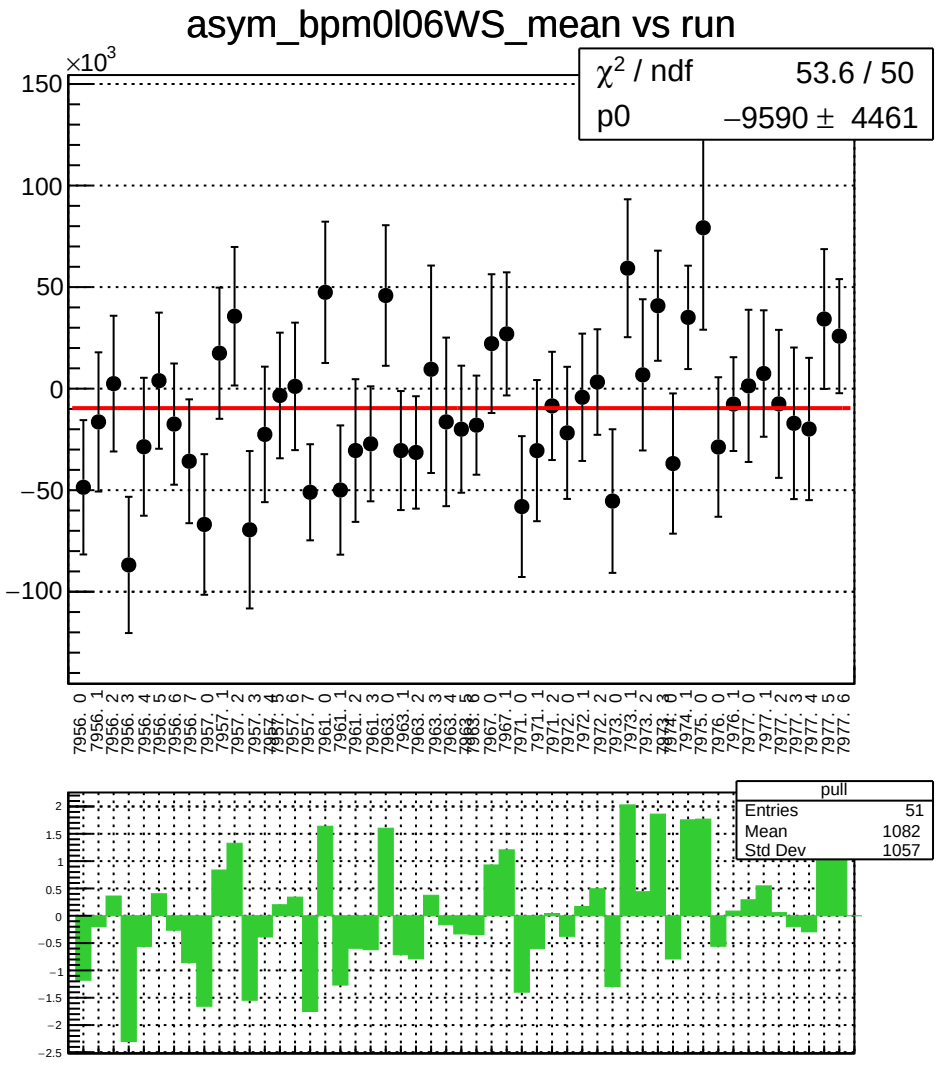
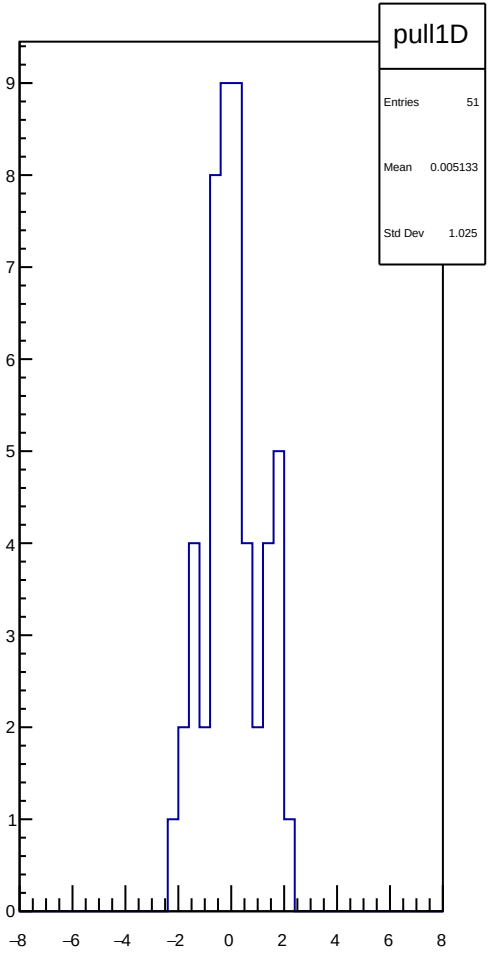
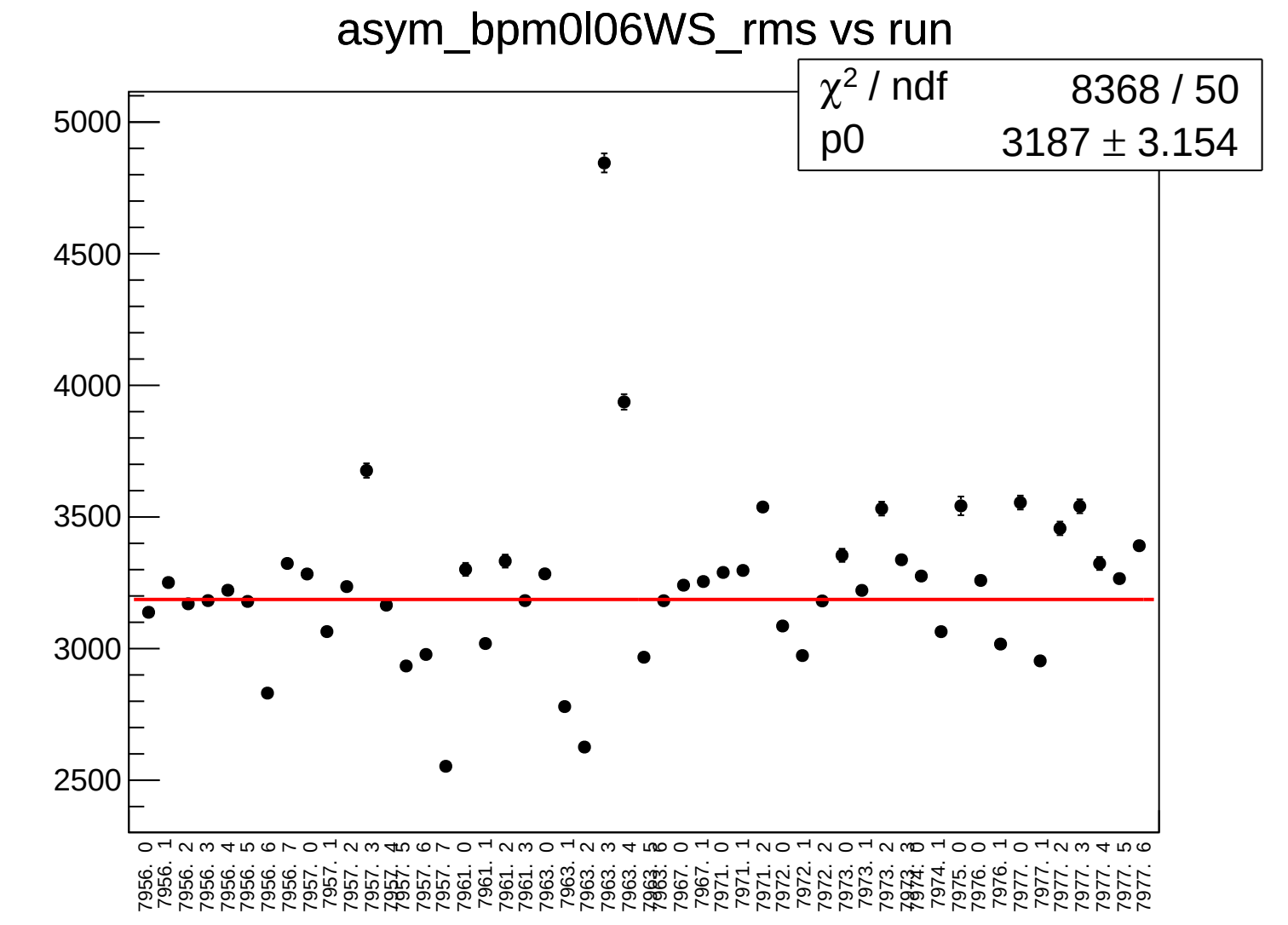
7977. 5
7977. 6


asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 53.6 / 50
p0 −9590 ± 4461
150
100
50
0
−50
−100
pull
Entries 51
Mean 1082
Std Dev 1057
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean 0.005133
Std Dev 1.025
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l06WS_rms vs run
χ² / ndf 8368 / 50
p0 3187 ± 3.154
5000
4500
4000
3500
3000
2500
7956. 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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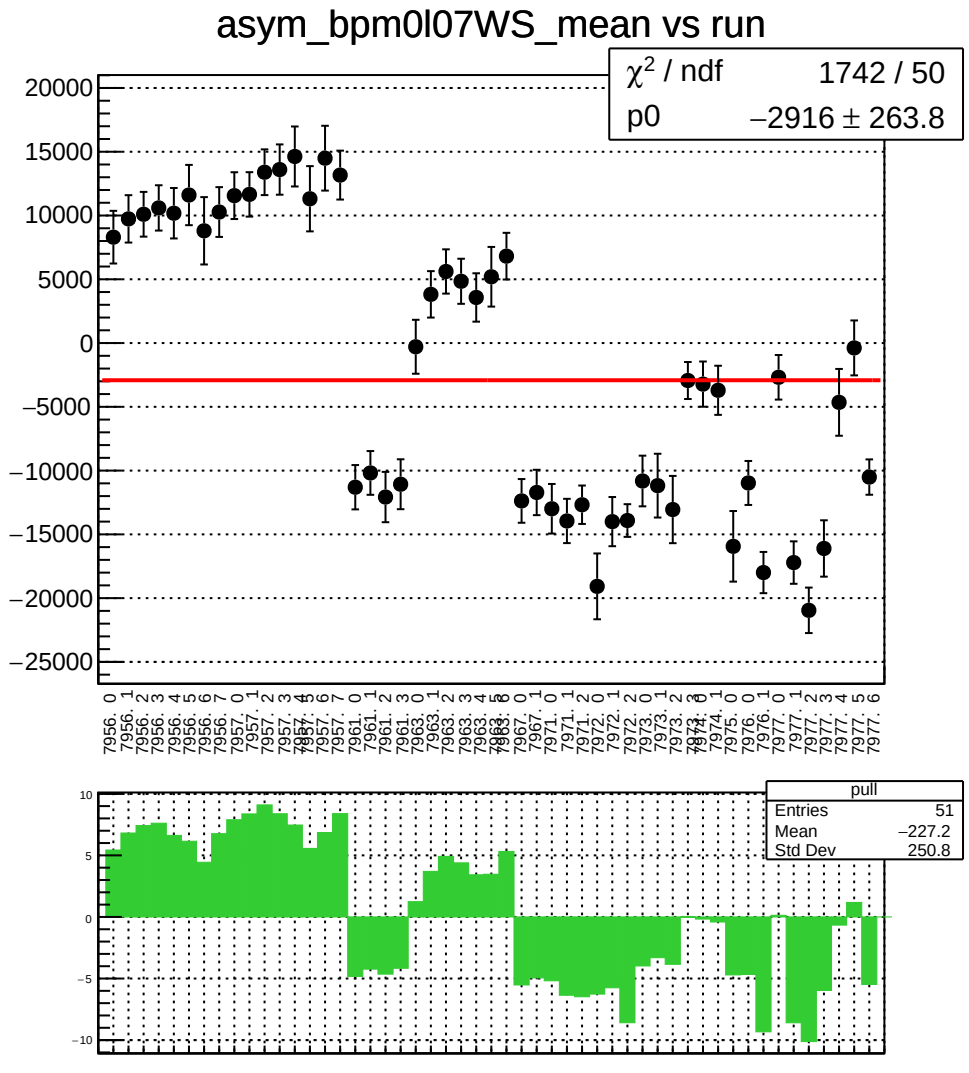
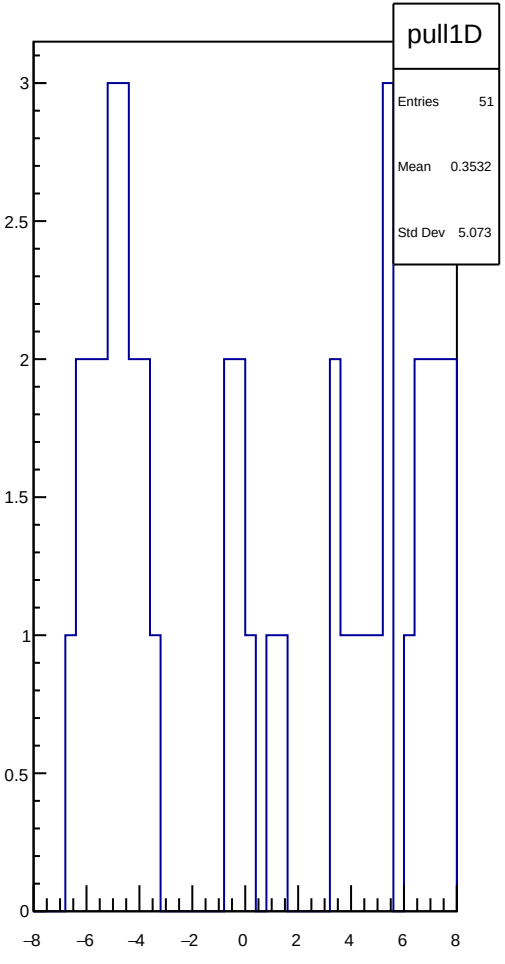
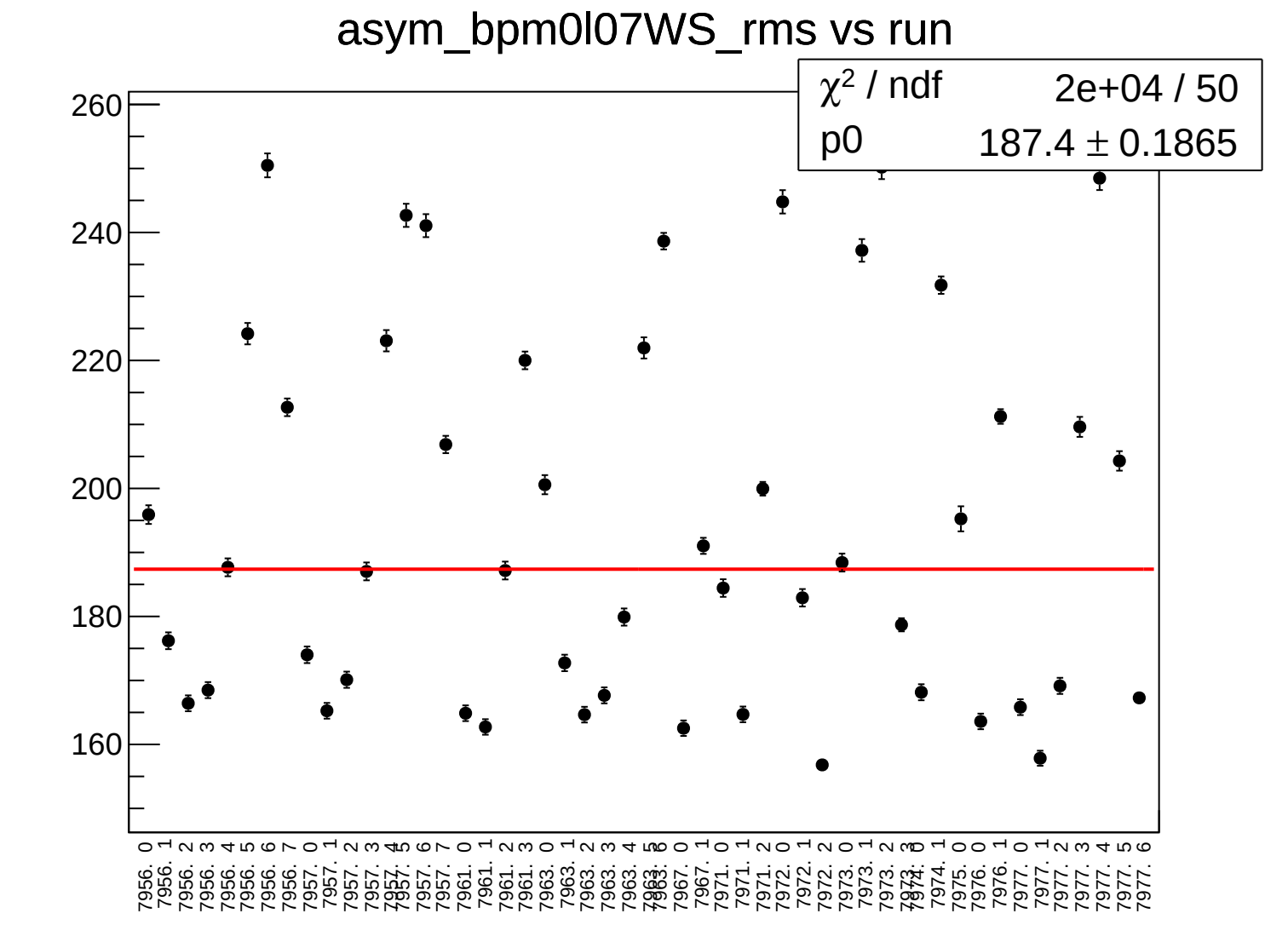
7977. 5
7977. 6


asym_bpm0l07WS_mean vs run
χ² / ndf 1742 / 50
p0 −2916 ± 263.8
pull
Entries 51
Mean −227.2
Std Dev 250.8


pull1D
Entries 51
Mean 0.3532
Std Dev 5.073


asym_bpm0l07WS_rms vs run
χ² / ndf 2e+04 / 50
p0 187.4 ± 0.1865
260
240
220
200
180
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
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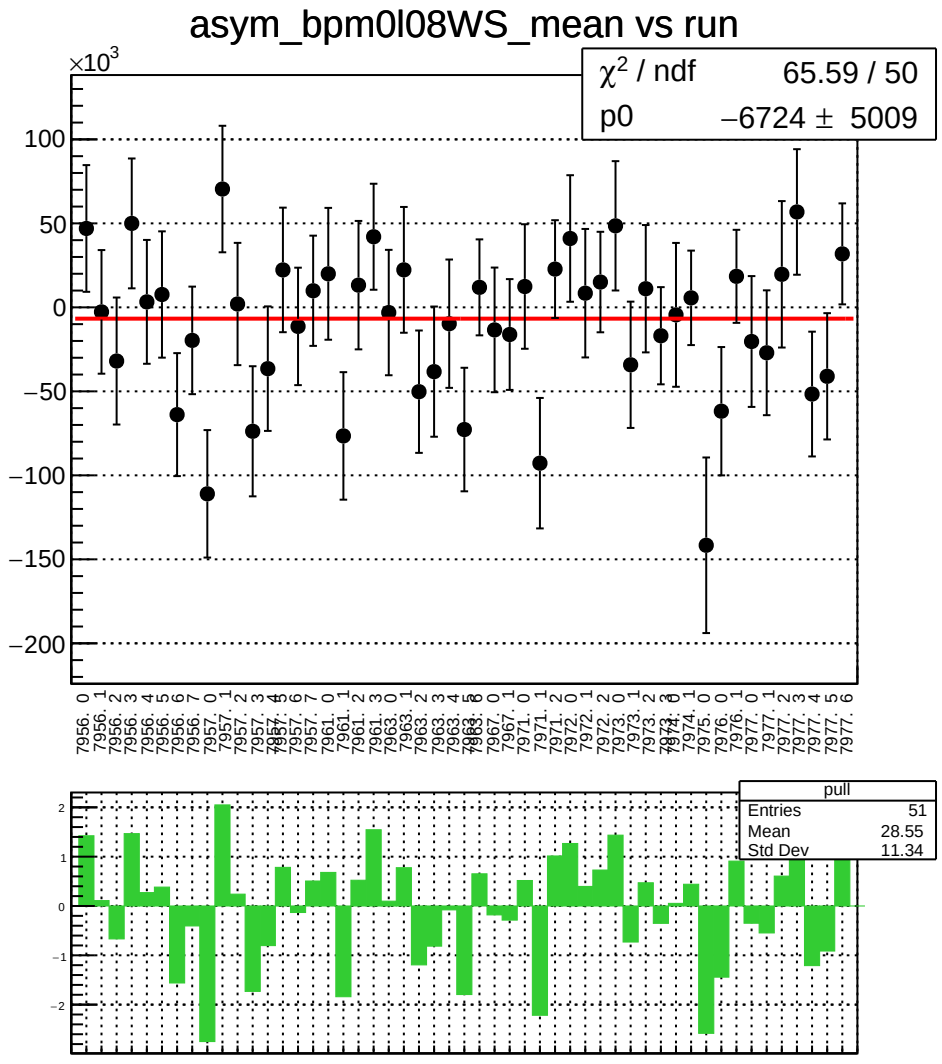
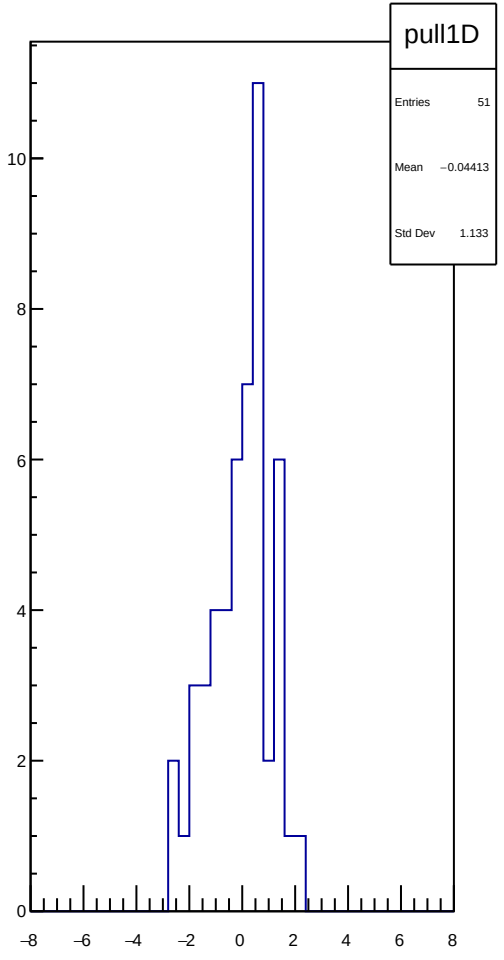
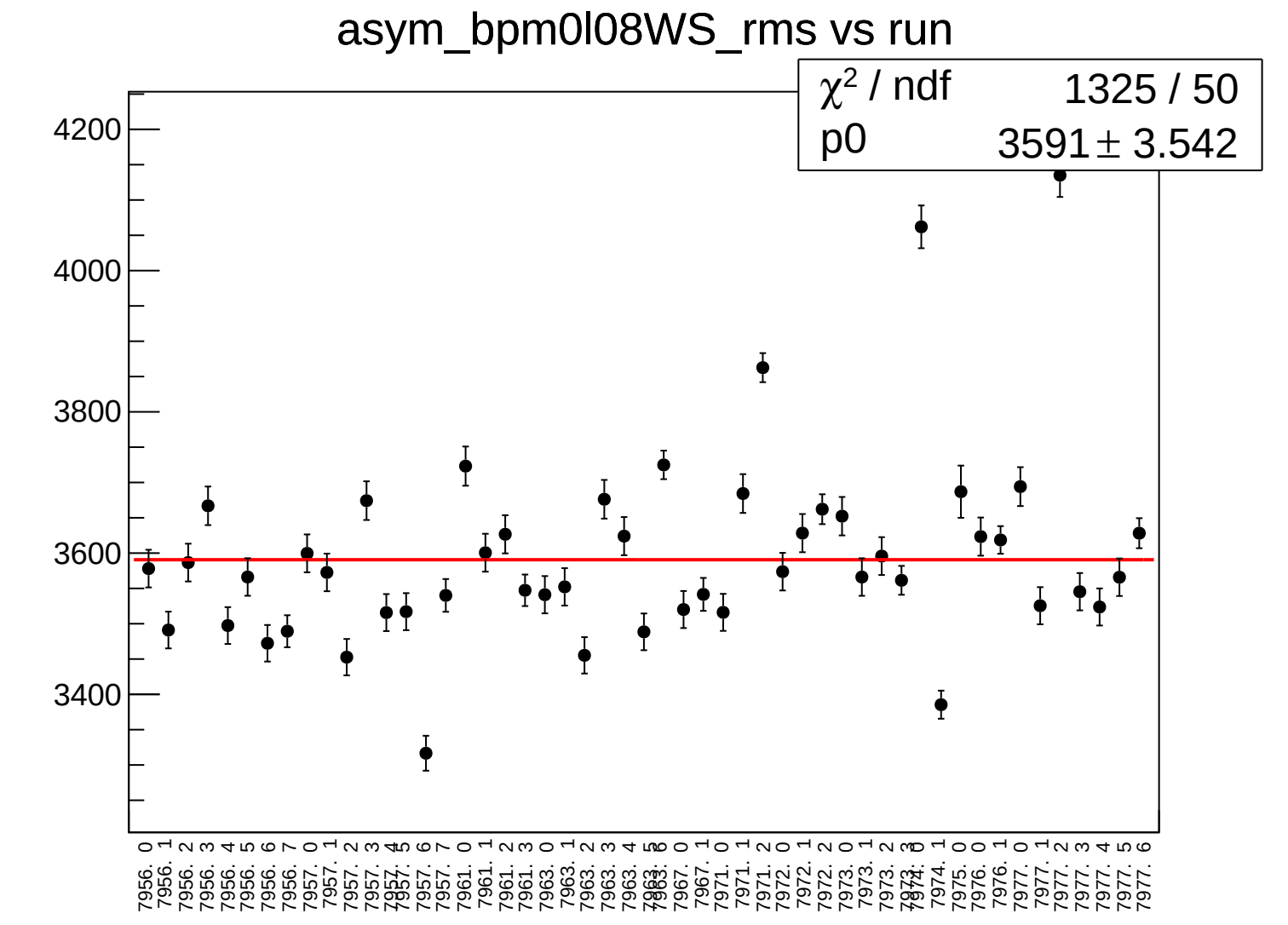
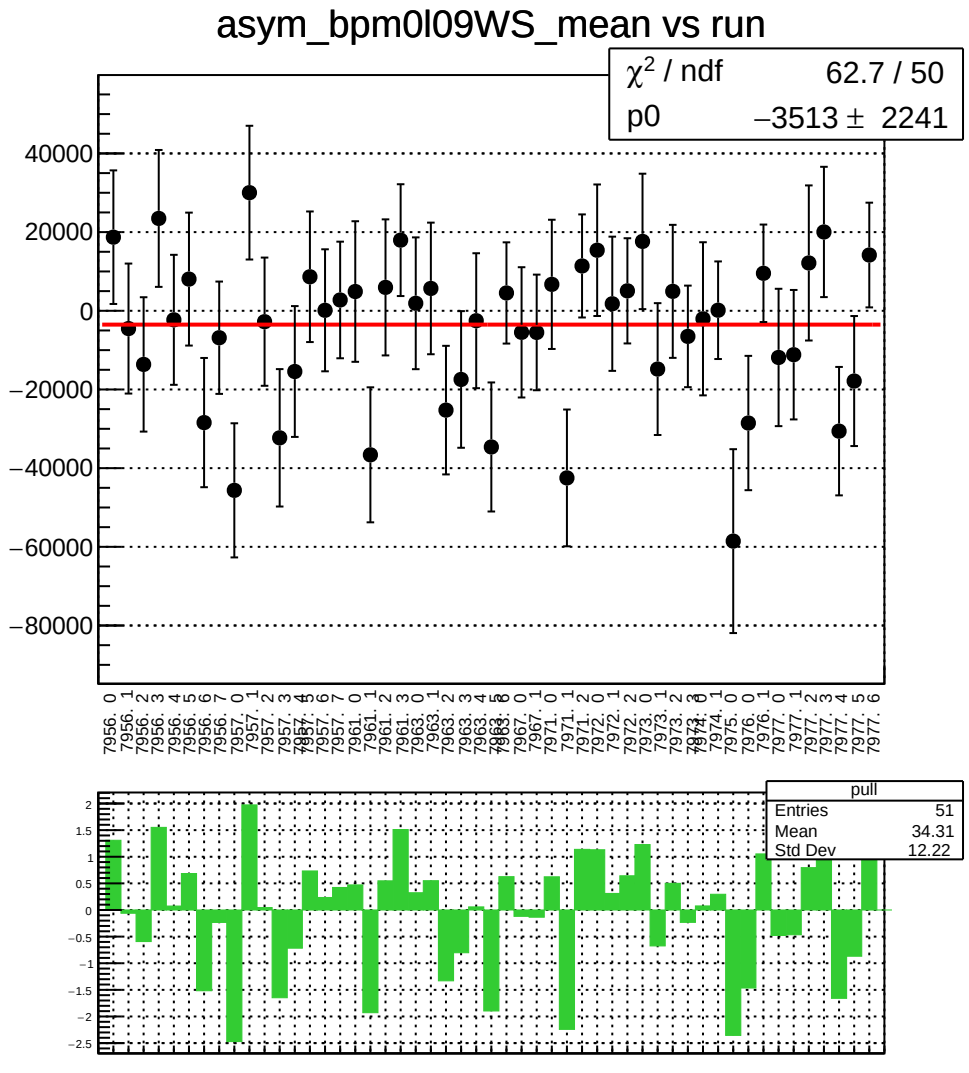
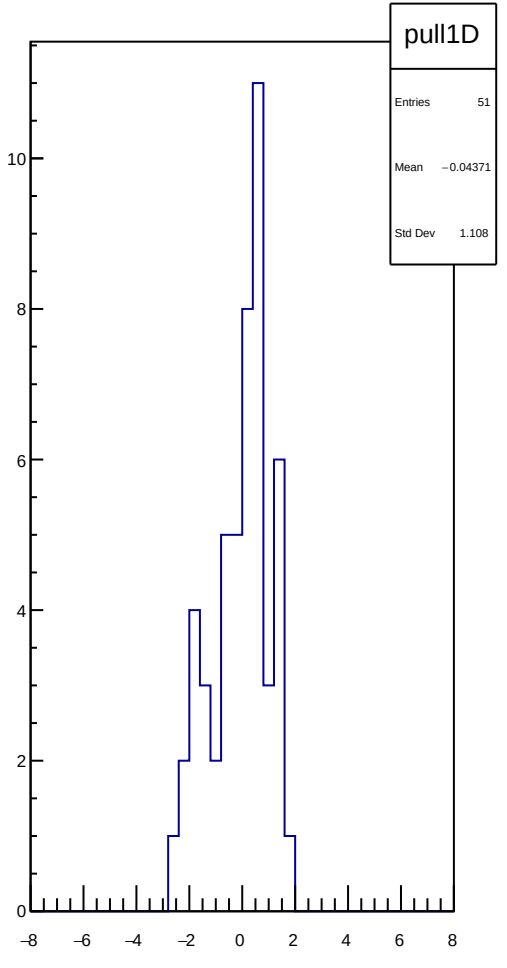
7977. 5
7977. 6

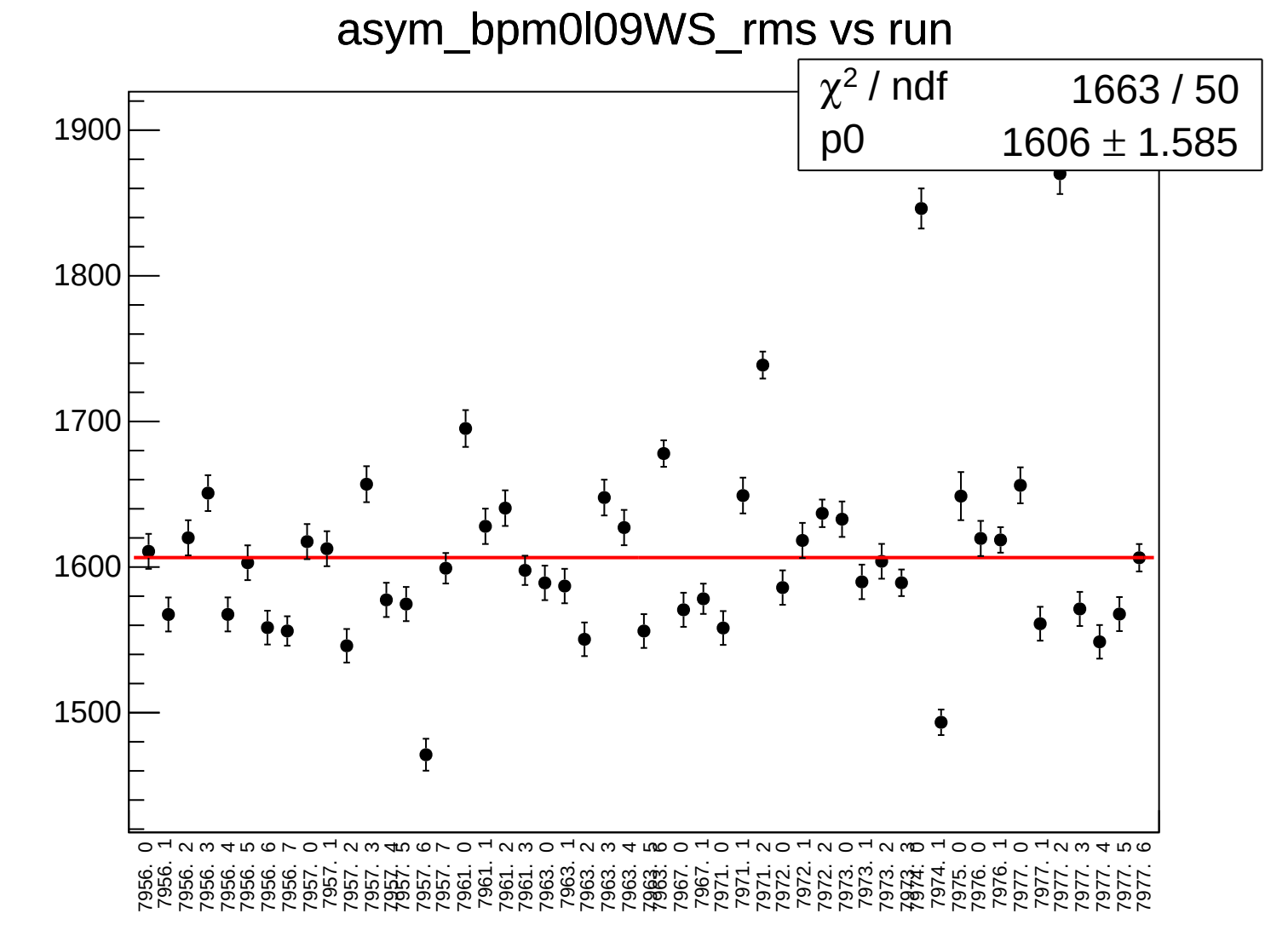

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 65.59 / 50
p0 −6724 ± 5009
100
50
0
−50
−100
−150
−200
pull
Entries 51
Mean 28.55
Std Dev 11.34
2
1
0
−1
−2


pull1D
Entries 51
Mean −0.04413
Std Dev 1.133
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l08WS_rms vs run
χ² / ndf 1325 / 50
p0 3591 ± 3.542
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


asym_bpm0l09WS_mean vs run
χ² / ndf 62.7 / 50
p0 −3513 ± 2241
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 51
Mean 34.31
Std Dev 12.22
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 51
Mean −0.04371
Std Dev 1.108
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l09WS_rms vs run
χ^2 / ndf 1663 / 50
p0 1606 ± 1.585
1900
1800
1700
1600
1500
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
17963. 5
17963. 6
17967. 0
17967. 1
17971. 0
17971. 1
17971. 2
17972. 0
17972. 1
17972. 2
17973. 0
17973. 1
17973. 2
17973. 3
17974. 0
17974. 1
17975. 0
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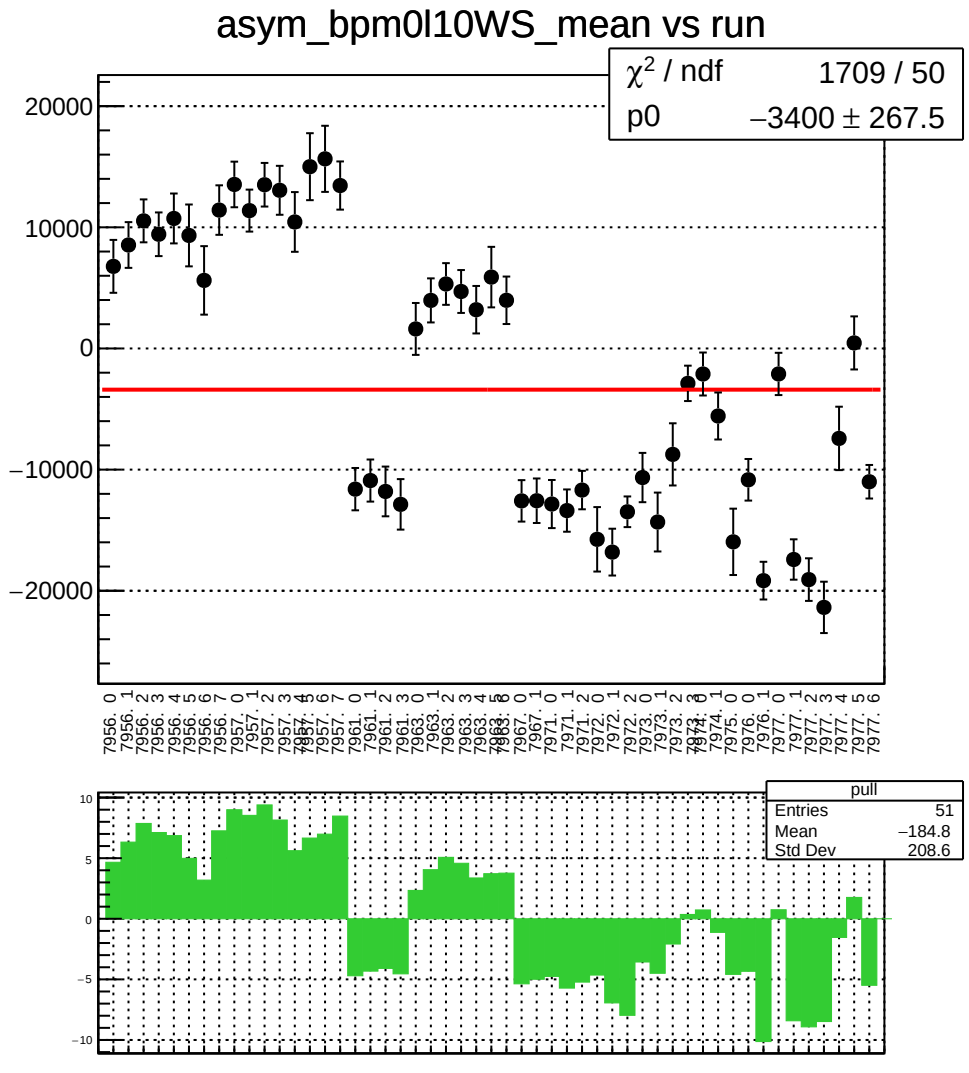
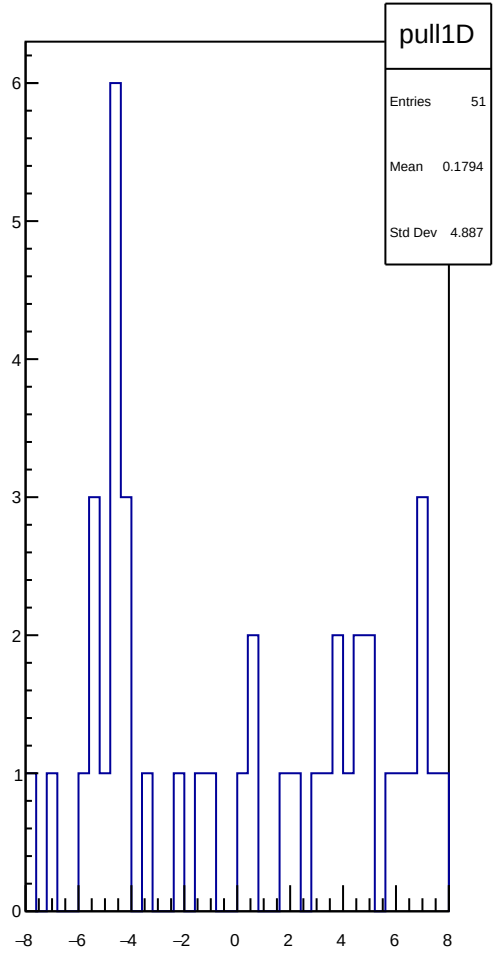
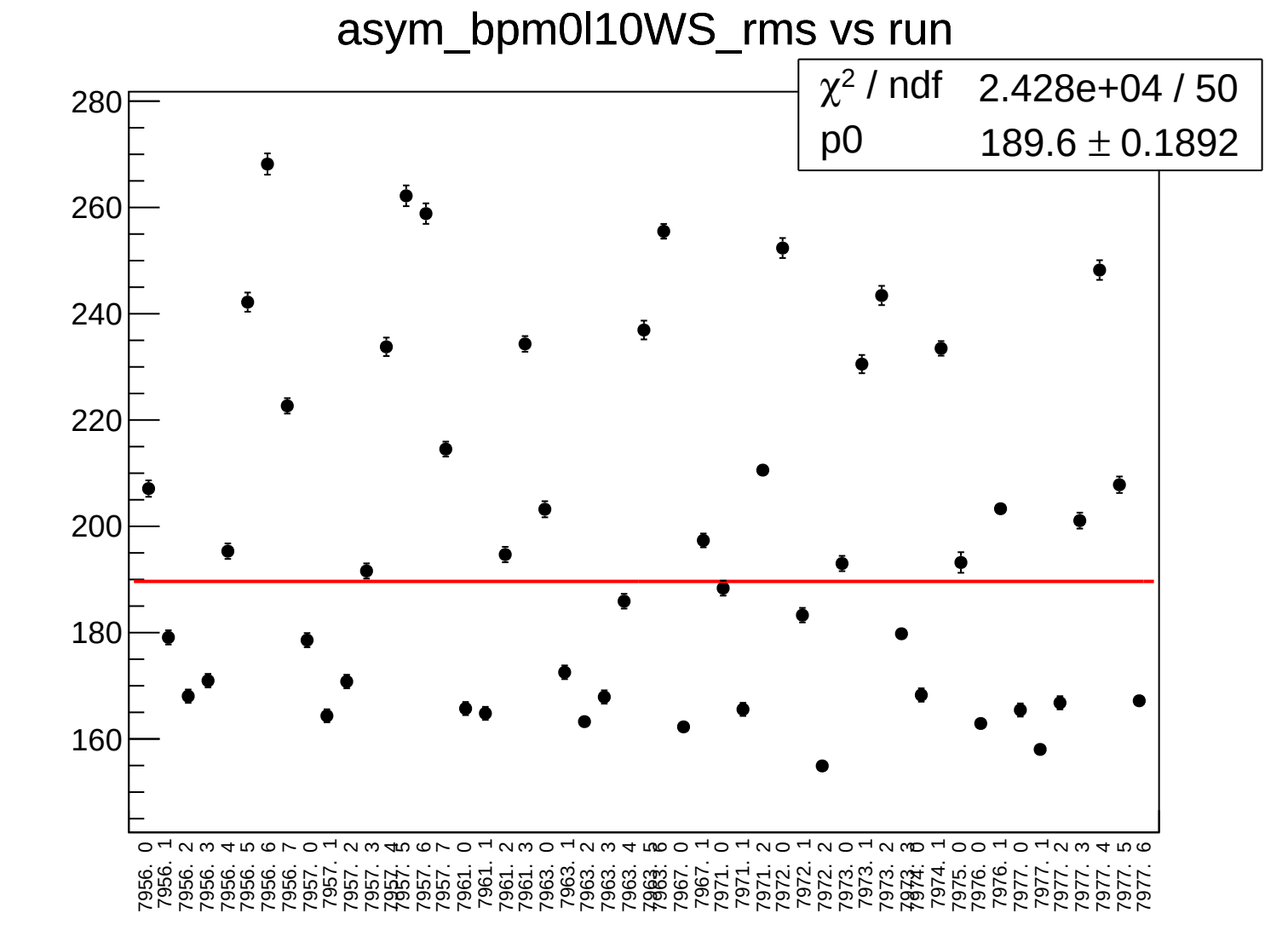
17976. 1
17977. 0
17977. 1
17977. 2
17977. 3
17977. 4
17977. 5
17977. 6


asym_bpm0l10WS_mean vs run
χ² / ndf 1709 / 50
p0 −3400 ± 267.5
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −184.8
Std Dev 208.6
10
5
0
−5
−10


pull1D
Entries 51
Mean 0.1794
Std Dev 4.887
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0l10WS_rms vs run
χ² / ndf 2.428e+04 / 50
p0 189.6 ± 0.1892
280
260
240
220
200
180
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
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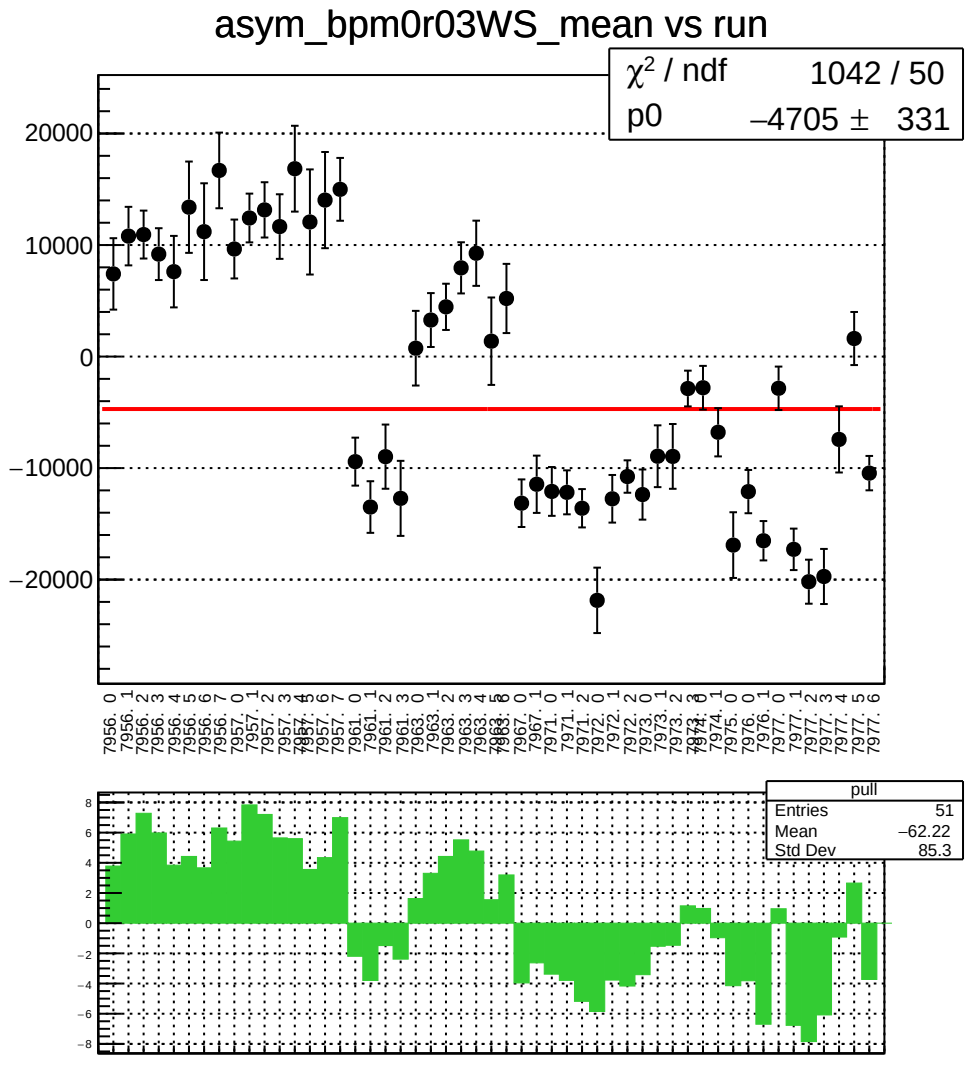
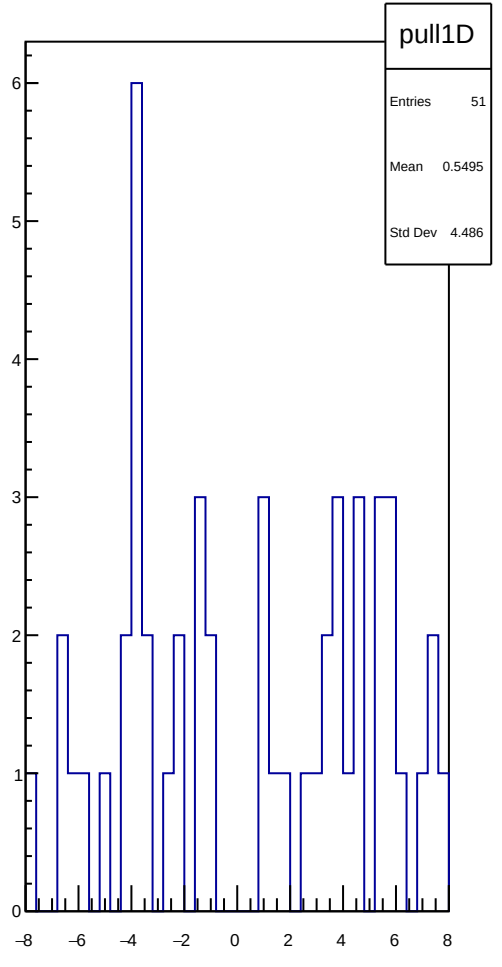
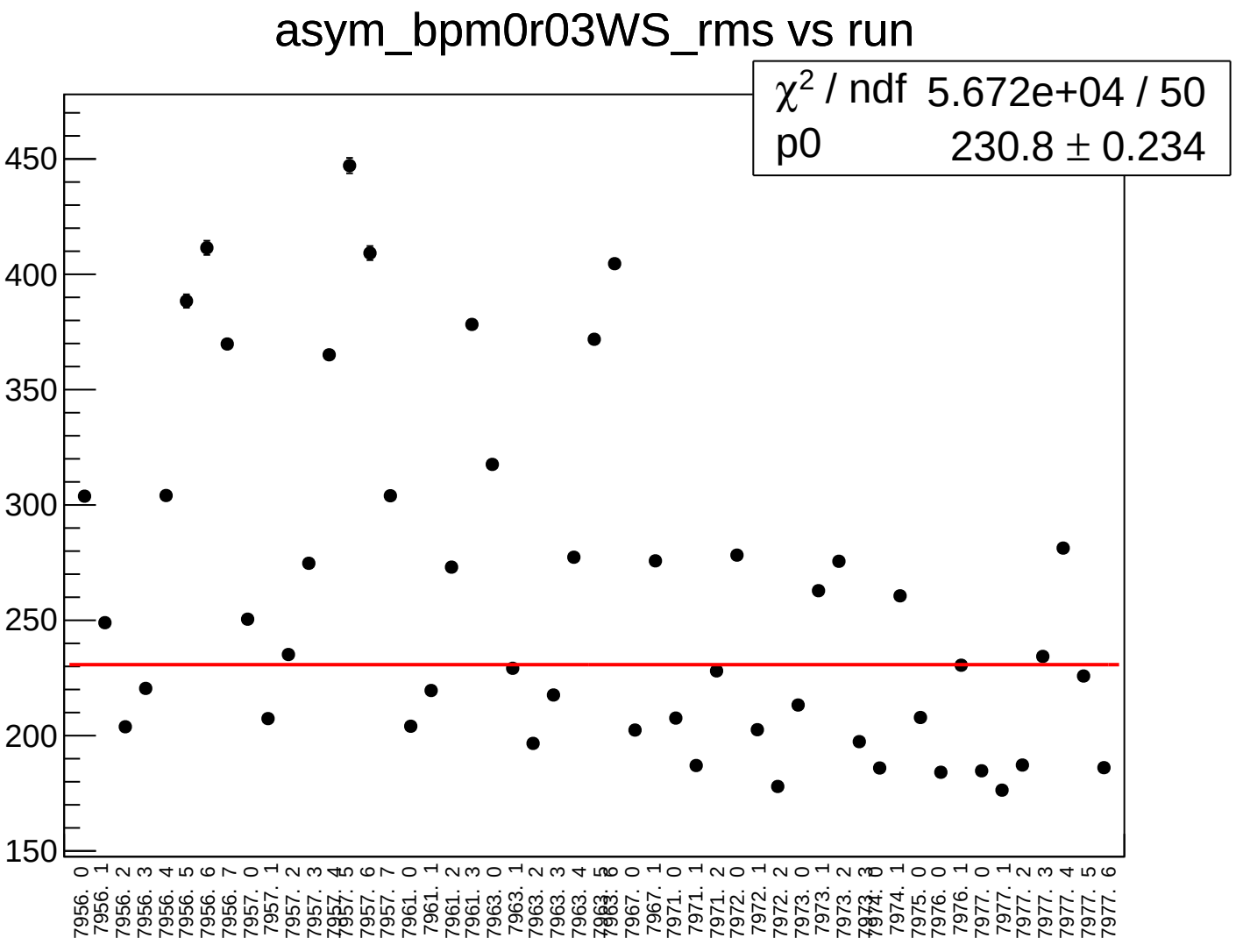
7977. 5
7977. 6


asym_bpm0r03WS_mean vs run
χ² / ndf 1042 / 50
p0 −4705 ± 331
20000
10000
0
−10000
−20000
pull
Entries 51
Mean −62.22
Std Dev 85.3


pull1D
Entries 51
Mean 0.5495
Std Dev 4.486


asym_bpm0r03WS_rms vs run
χ² / ndf 5.672e+04 / 50
p0 230.8 ± 0.234
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
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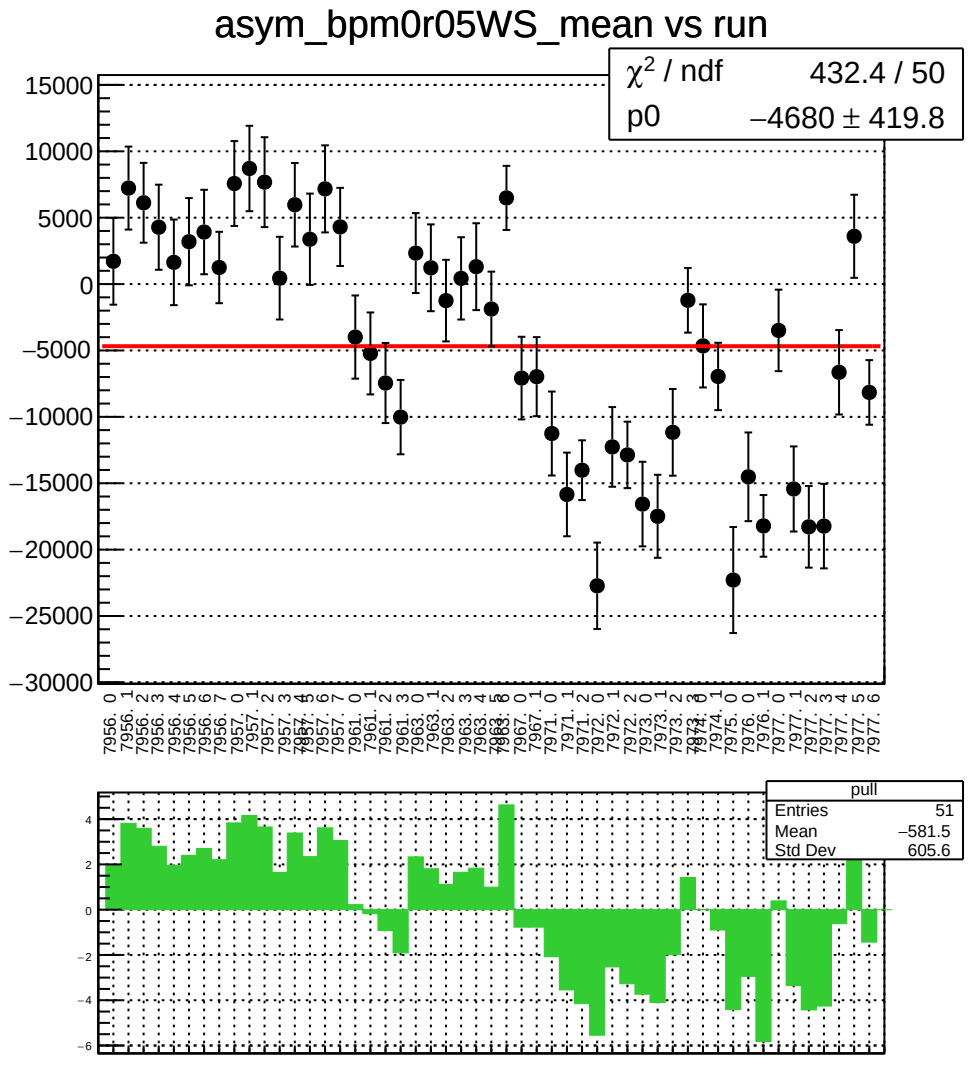
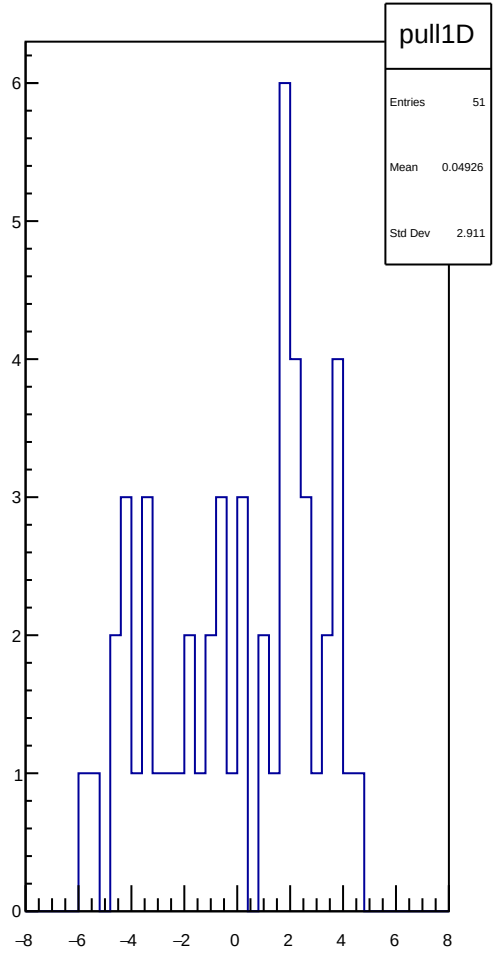
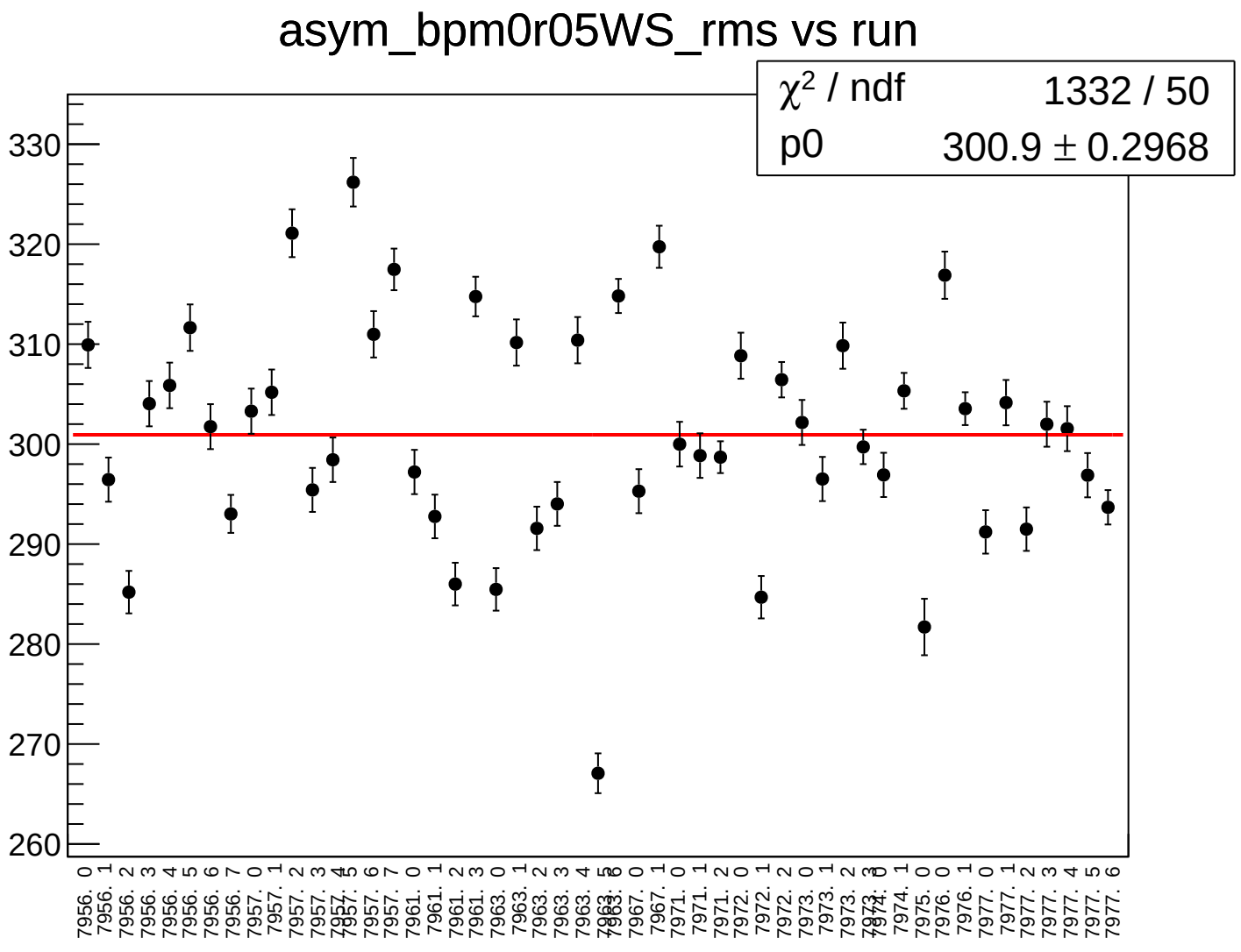
7977. 5
7977. 6


asym_bpm0r05WS_mean vs run
χ² / ndf 432.4 / 50
p0 −4680 ± 419.8
pull
Entries 51
Mean −581.5
Std Dev 605.6


pull1D
Entries 51
Mean 0.04926
Std Dev 2.911


asym_bpm0r05WS_rms vs run
χ² / ndf 1332 / 50
p0 300.9 ± 0.2968
330
320
310
300
290
280
270
260
7956. 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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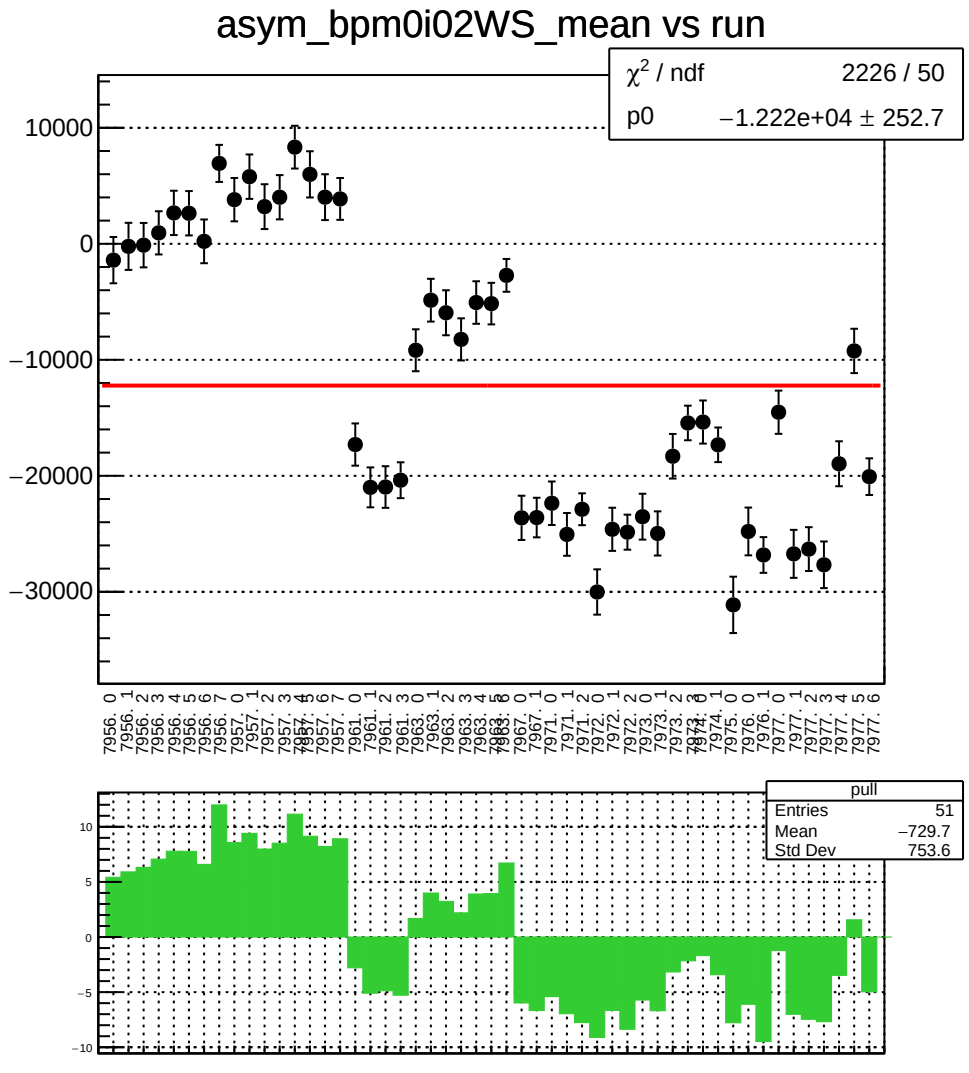
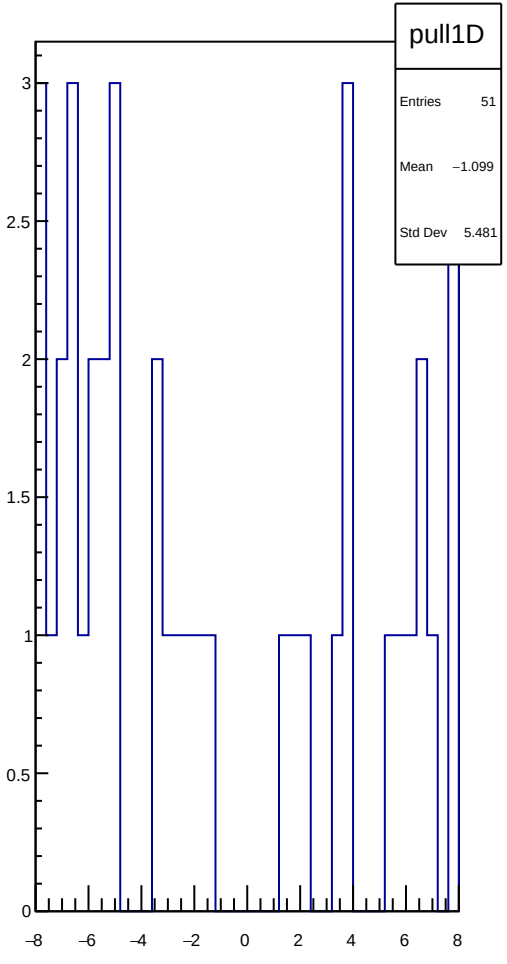
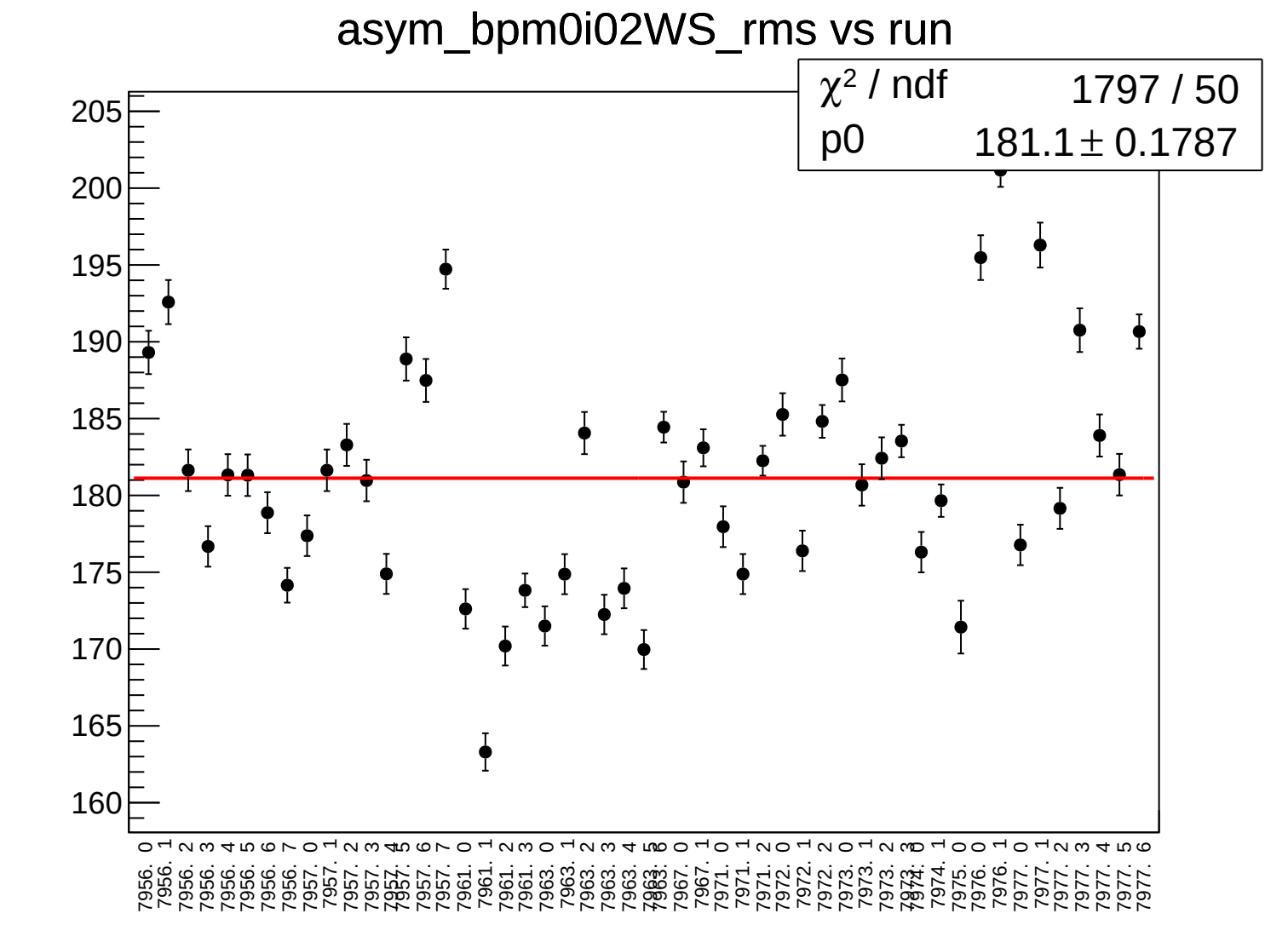
7977. 5
7977. 6


asym_bpm0i02WS_mean vs run
χ² / ndf 2226 / 50
p0 −1.222e+04 ± 252.7
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −729.7
Std Dev 753.6
10
5
0
−5
−10


pull1D
Entries 51
Mean −1.099
Std Dev 5.481
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i02WS_rms vs run
χ² / ndf 1797 / 50
p0 181.1 ± 0.1787
205
200
195
190
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
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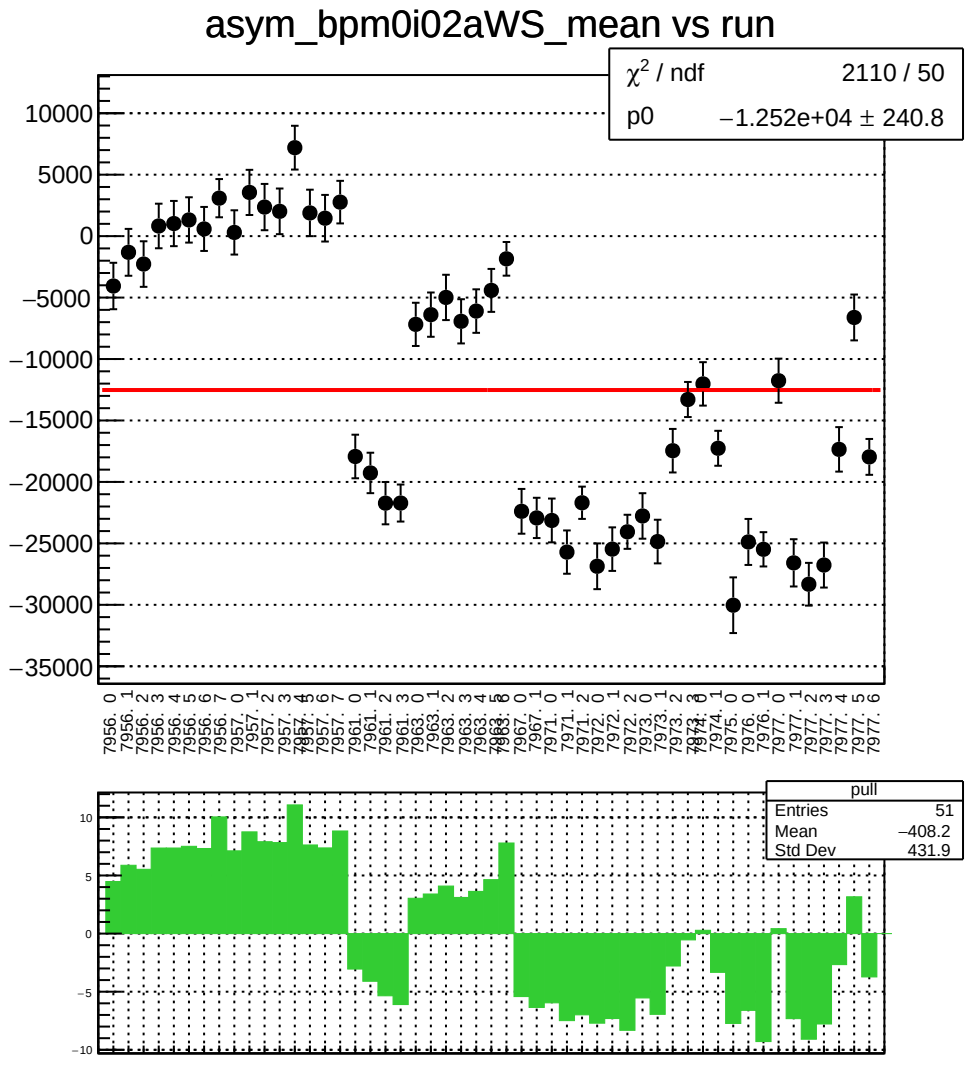
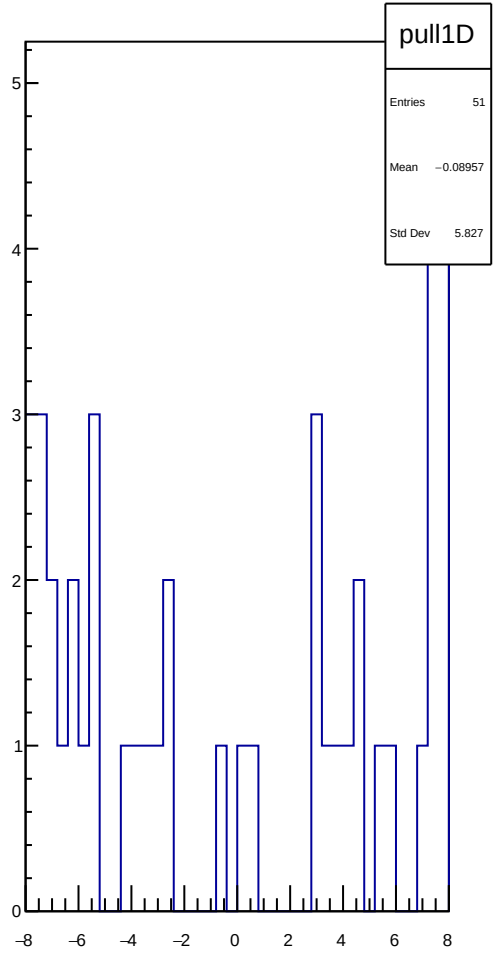
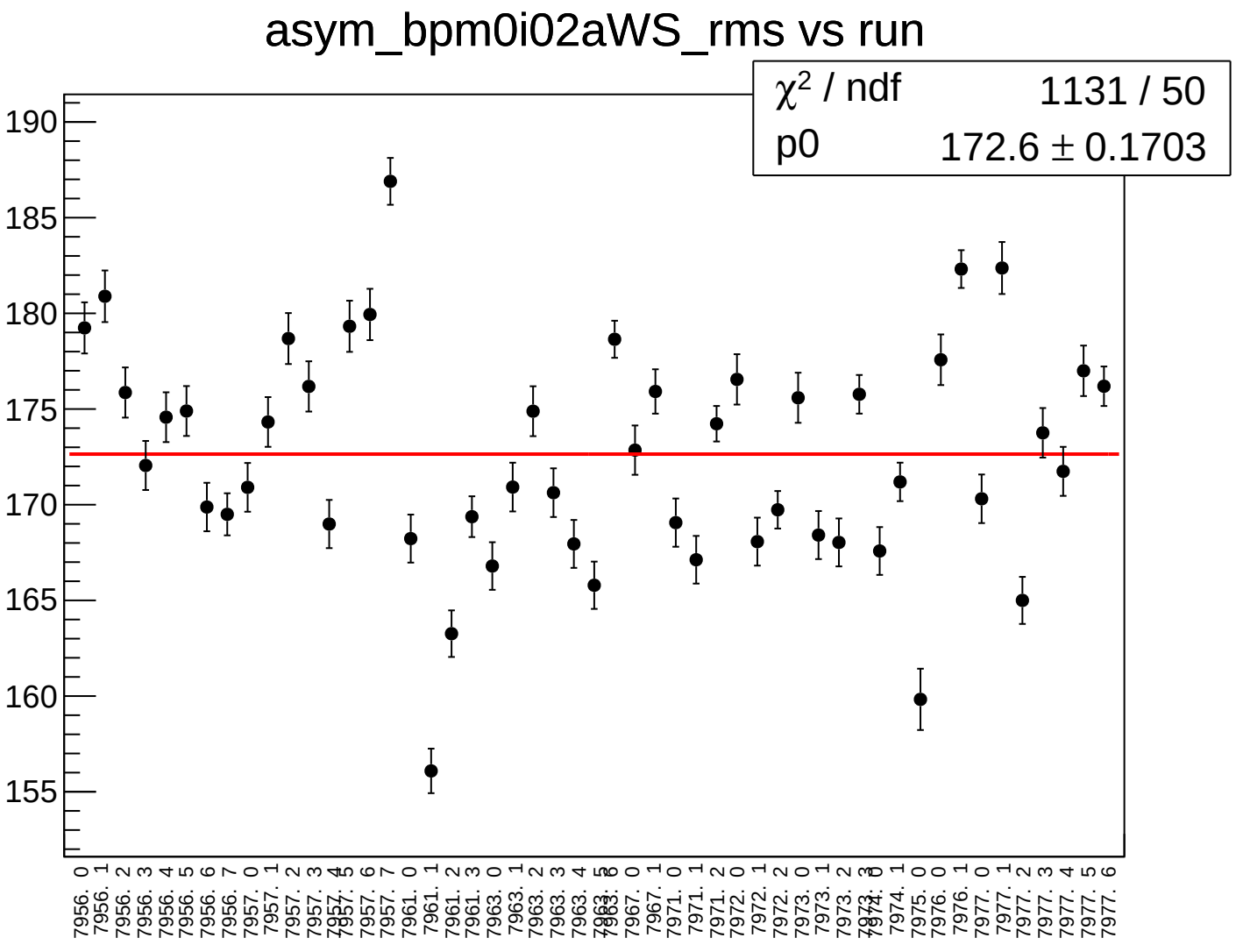
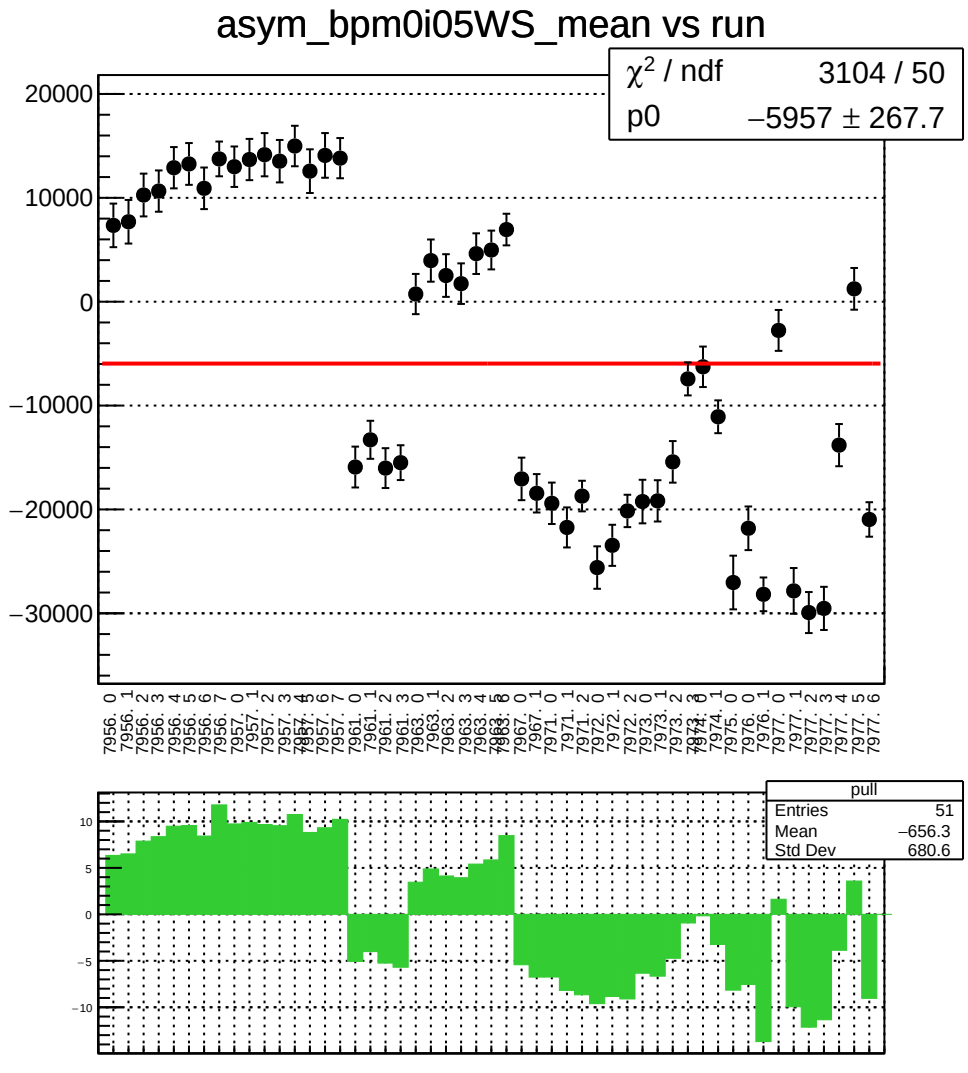
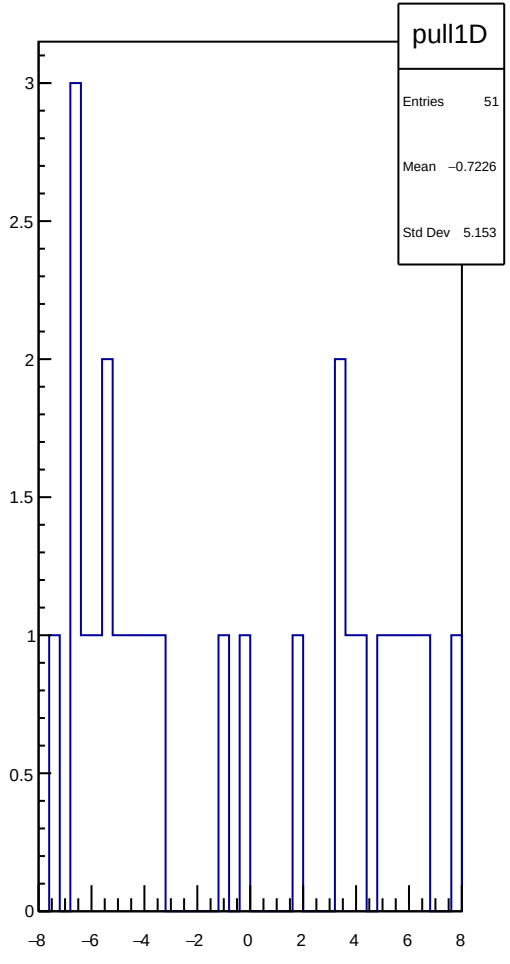
7977. 4
7977. 5
7977. 6

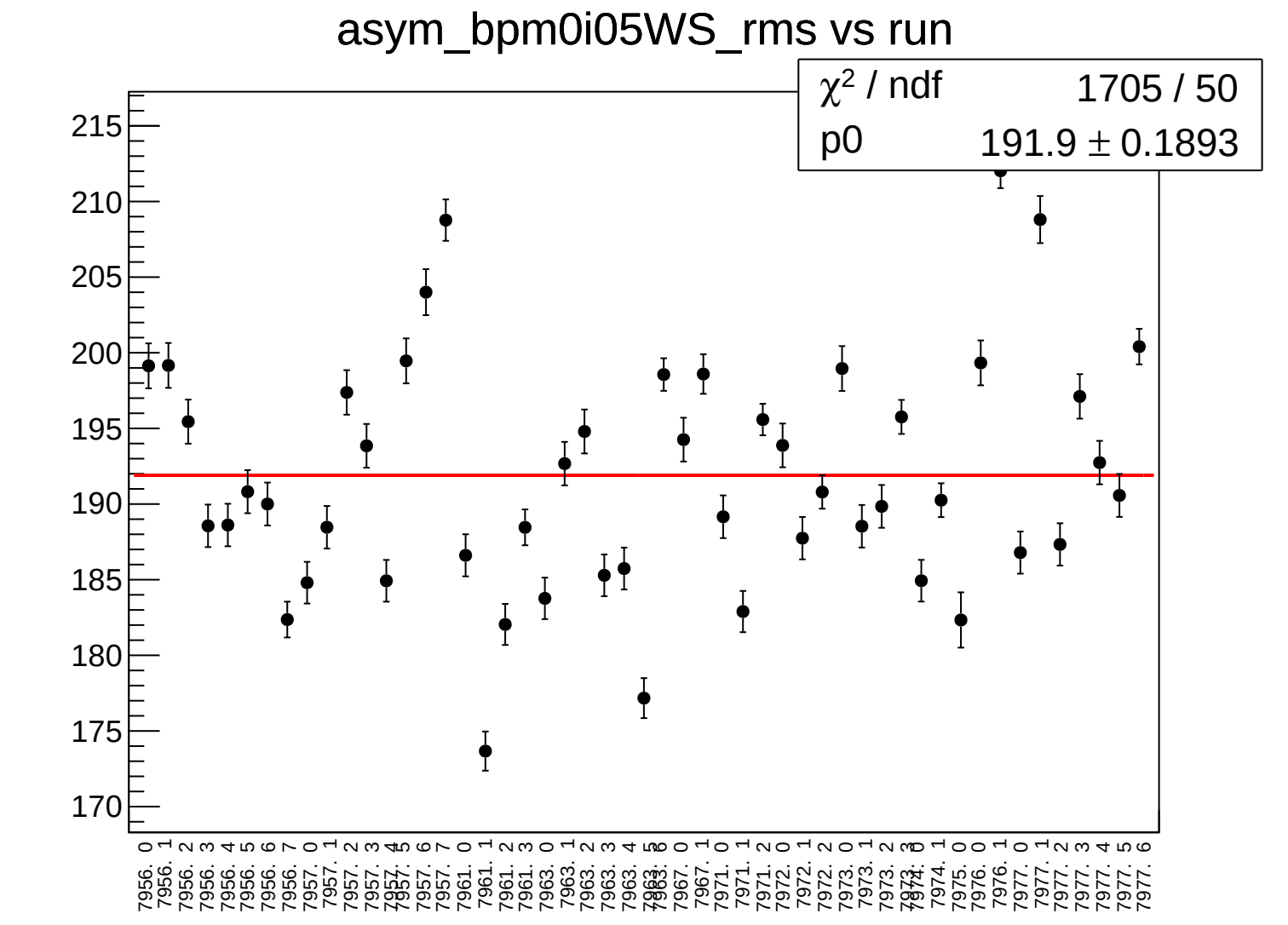

asym_bpm0i02aWS_mean vs run
χ² / ndf 2110 / 50
p0 −1.252e+04 ± 240.8
pull
Entries 51
Mean −408.2
Std Dev 431.9

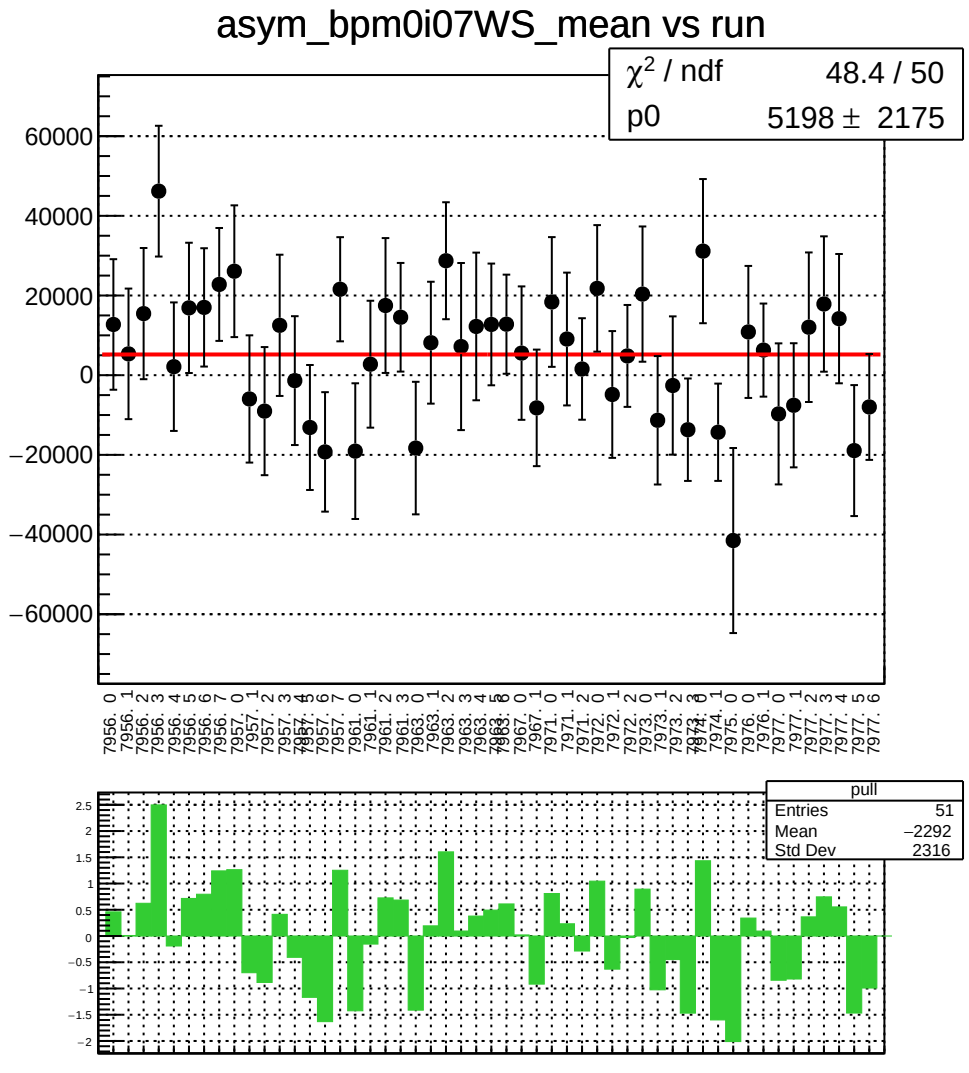

pull1D
Entries 51
Mean −0.08957
Std Dev 5.827

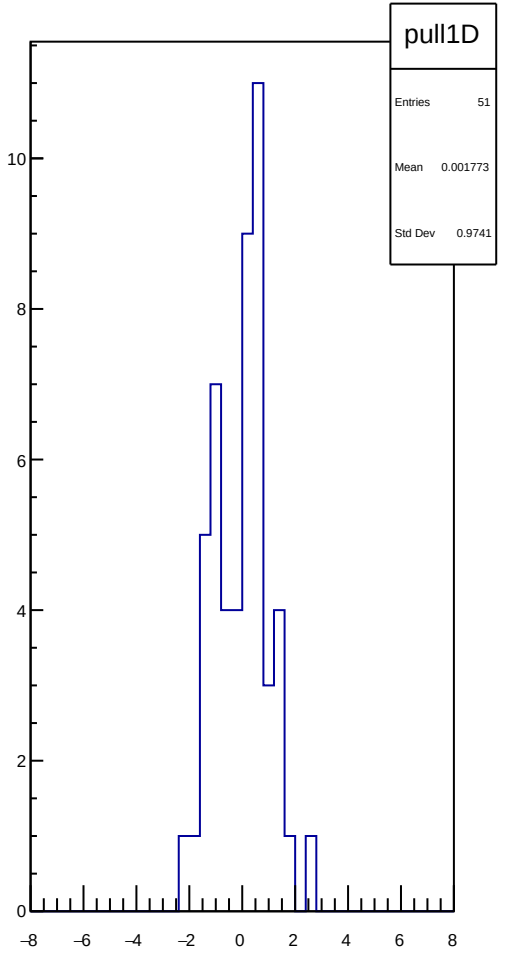

asym_bpm0i02aWS_rms vs run
χ² / ndf 1131 / 50
p0 172.6 ± 0.1703
190
185
180
175
170
165
160
155
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

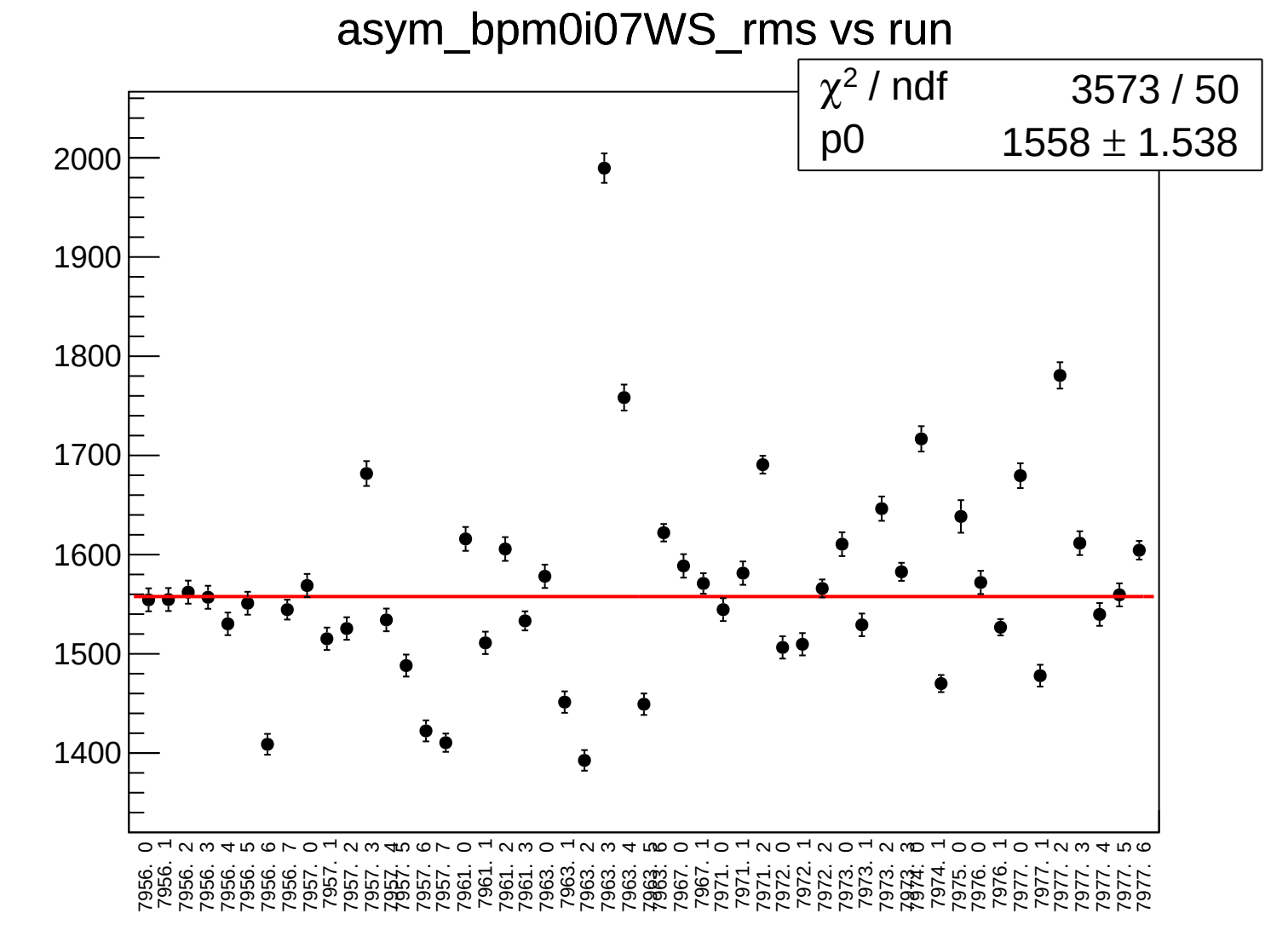

asym_bpm0i05WS_mean vs run
χ² / ndf 3104 / 50
p0 −5957 ± 267.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 51
Mean −656.3
Std Dev 680.6
10
5
0
−5
−10


pull1D
Entries 51
Mean −0.7226
Std Dev 5.153
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0i05WS_rms vs run
χ² / ndf 1705 / 50
p0 191.9 ± 0.1893
215
210
205
200
195
190
185
180
175
170
7956. 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


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. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
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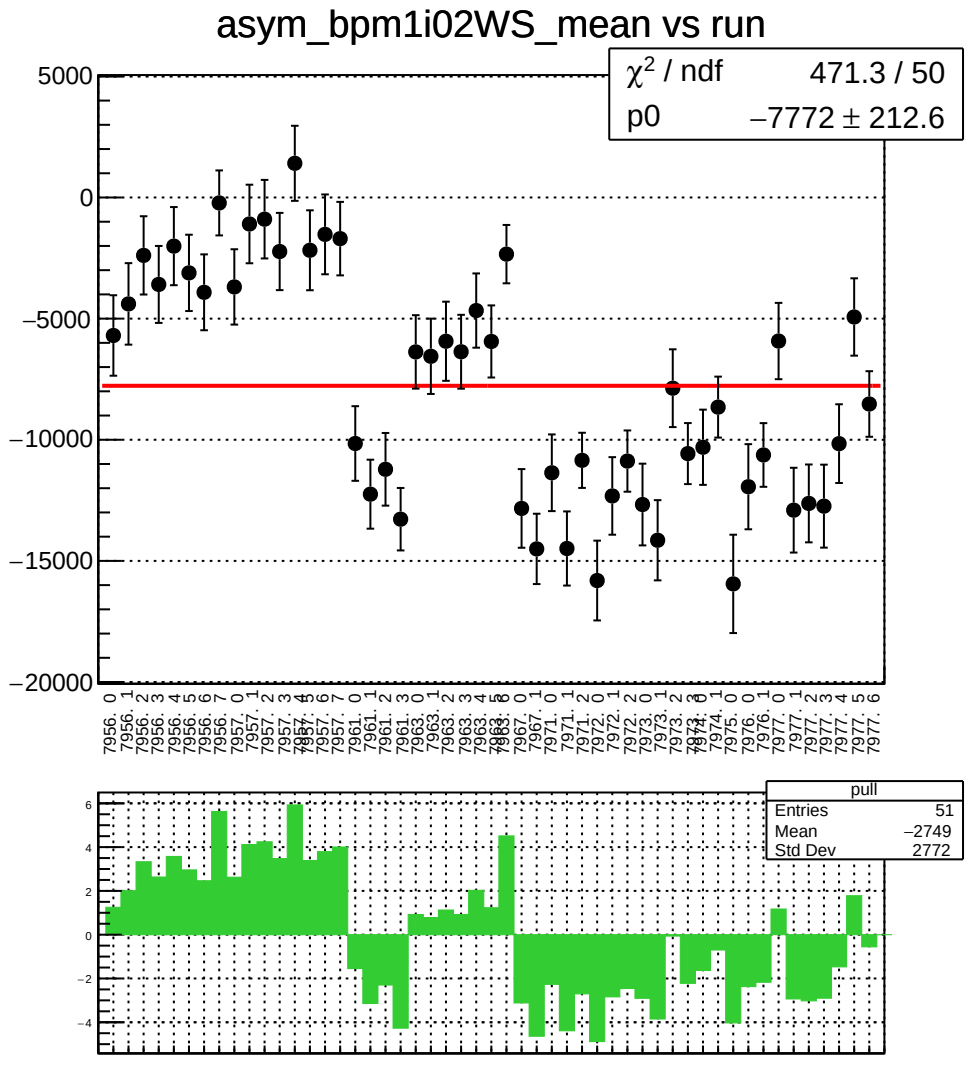
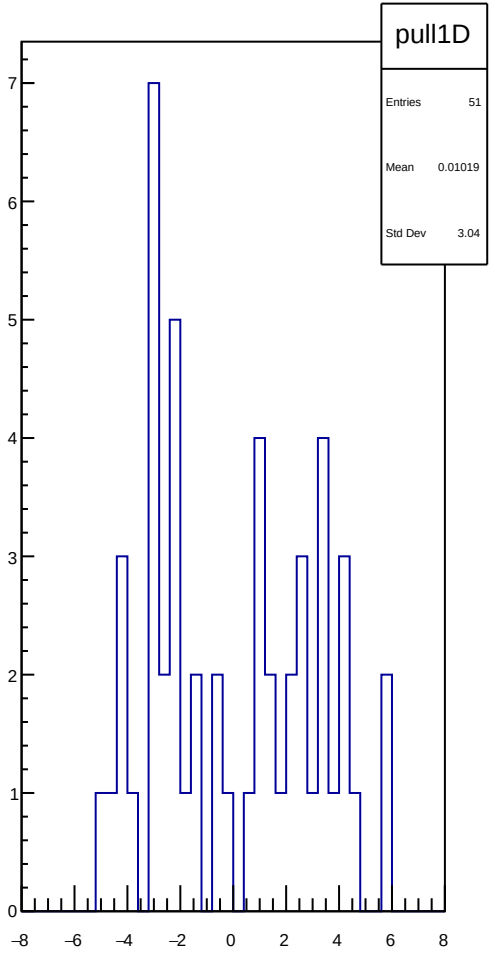
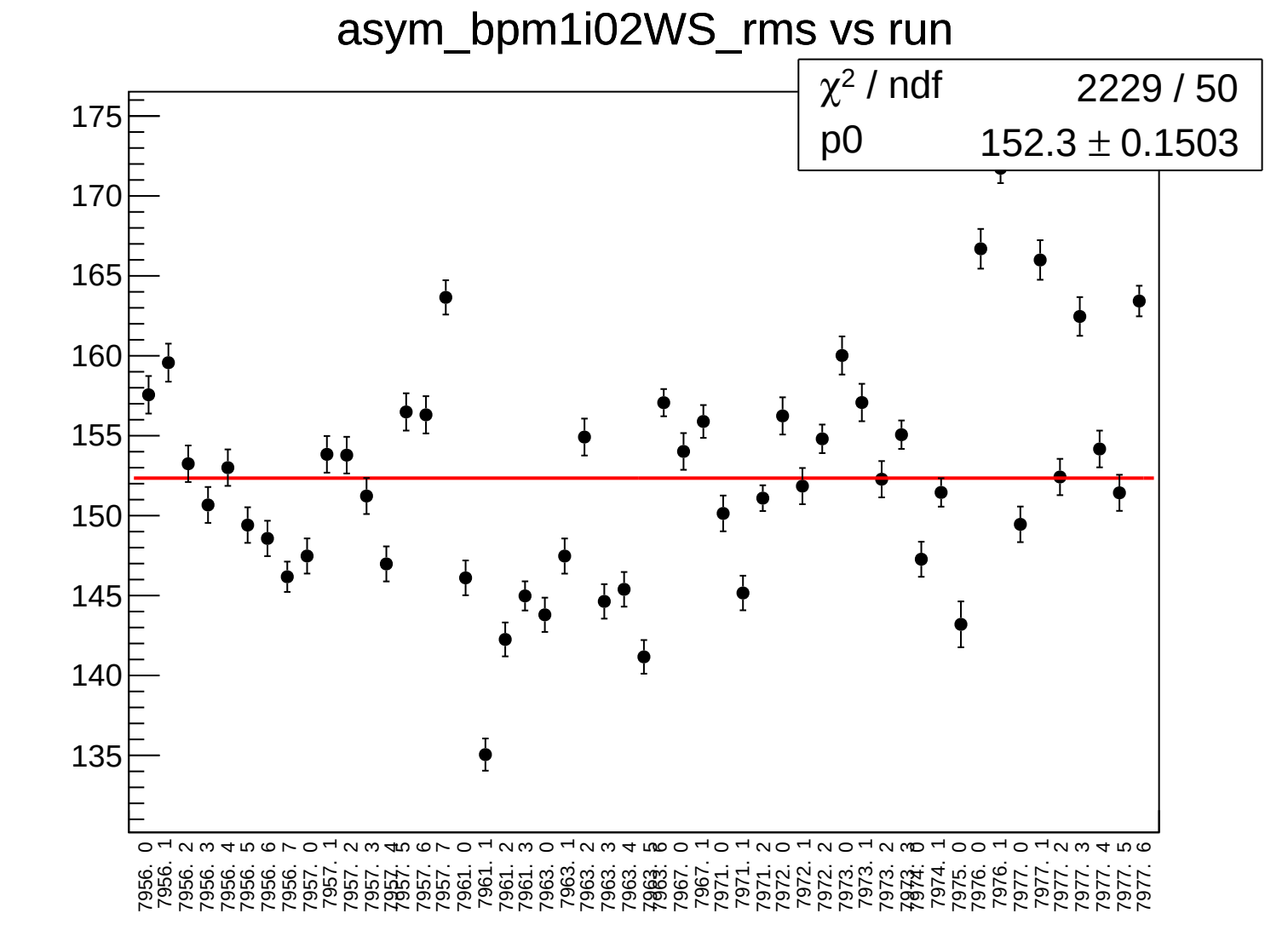
7977. 5
7977. 6


asym_bpm1i02WS_mean vs run
χ² / ndf 471.3 / 50
p0 −7772 ± 212.6
pull
Entries 51
Mean −2749
Std Dev 2772


pull1D
Entries 51
Mean 0.01019
Std Dev 3.04


asym_bpm1i02WS_rms vs run
χ² / ndf 2229 / 50
p0 152.3 ± 0.1503
175
170
165
160
155
150
145
140
135
7956. 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
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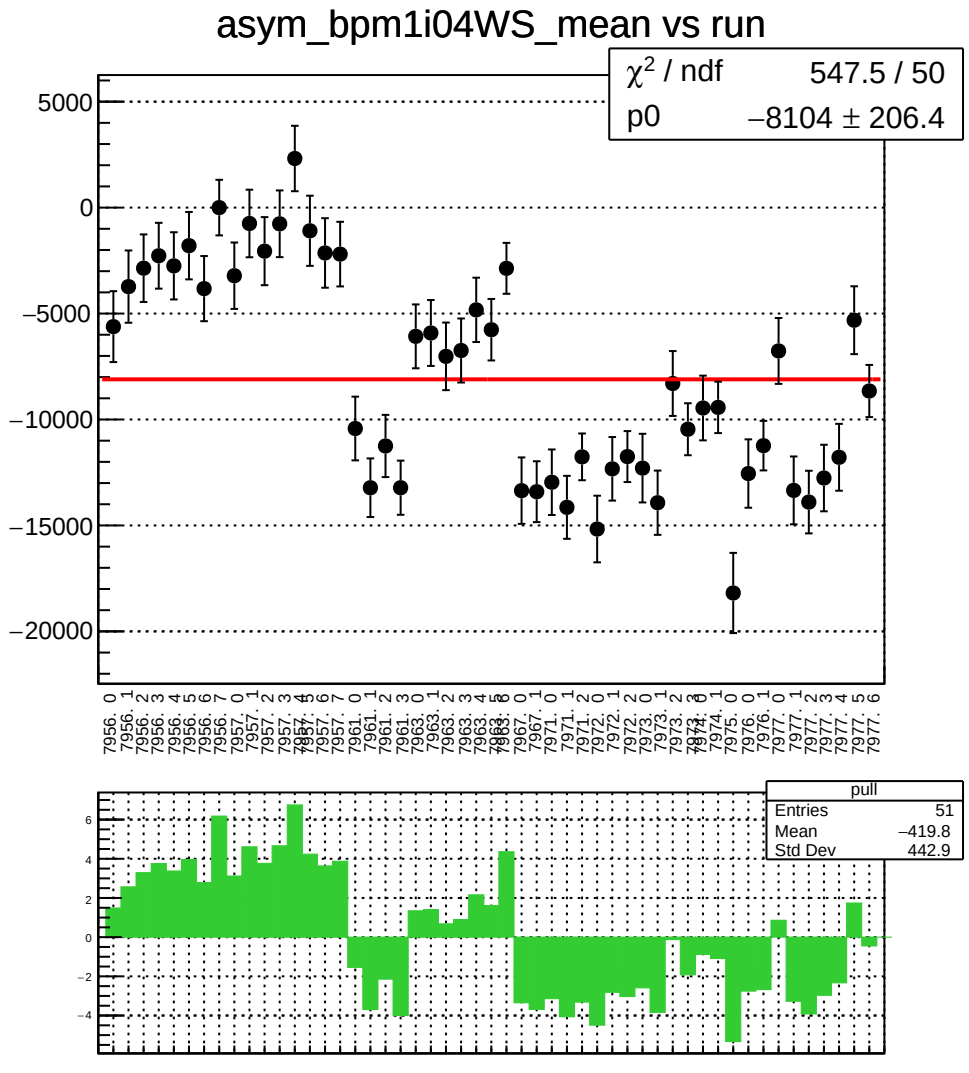
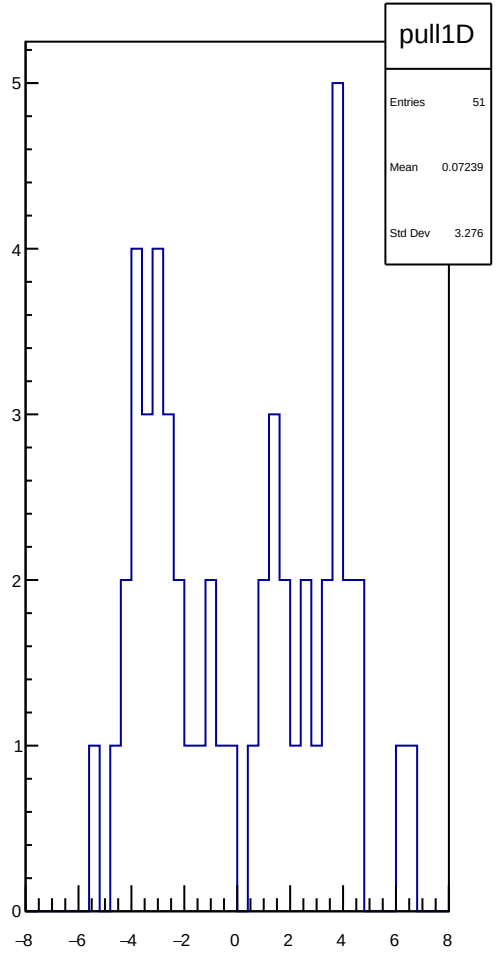
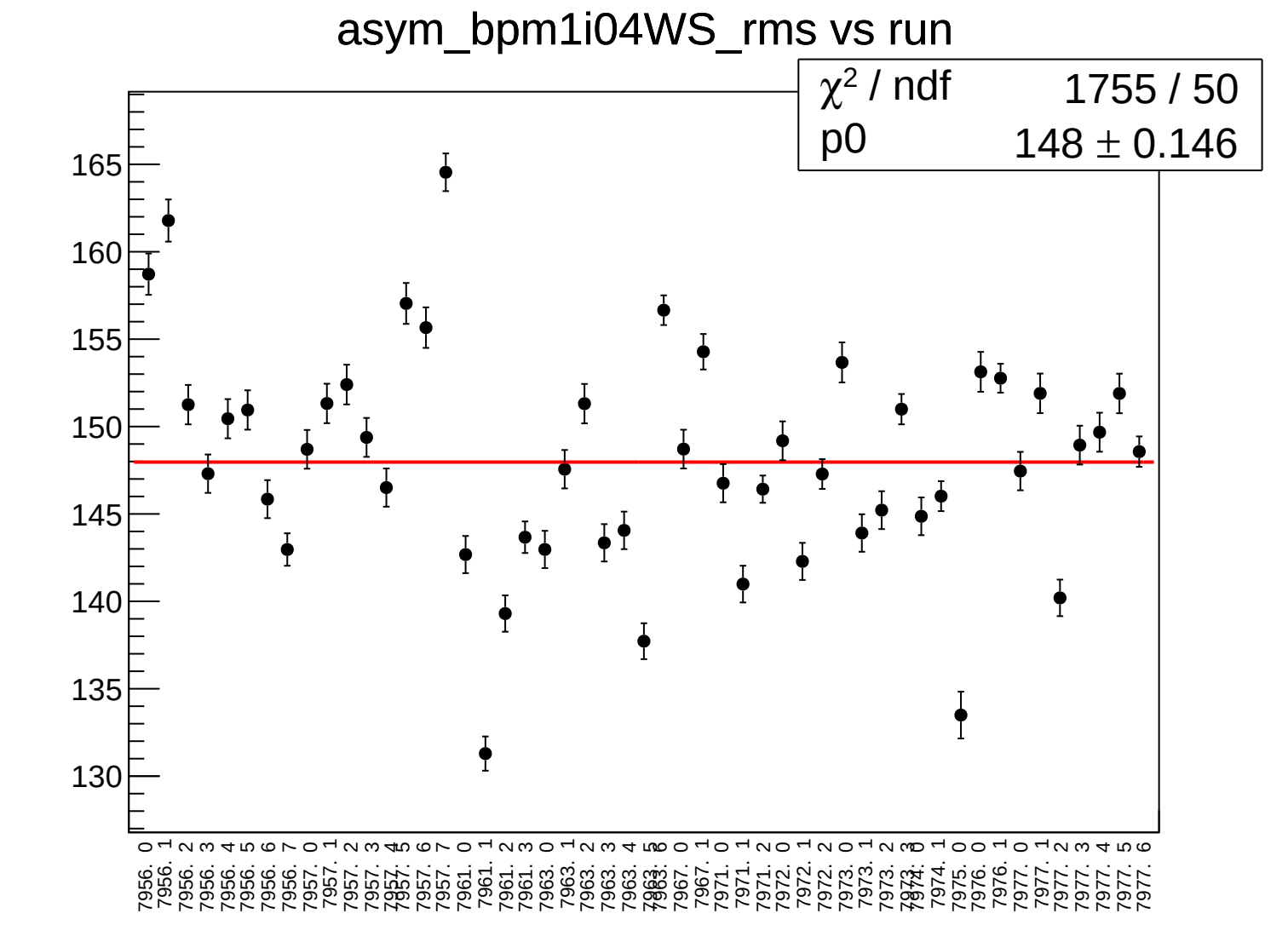
7977. 5
7977. 6


asym_bpm1i04WS_mean vs run
χ² / ndf 547.5 / 50
p0 −8104 ± 206.4
pull
Entries 51
Mean −419.8
Std Dev 442.9


pull1D
Entries 51
Mean 0.07239
Std Dev 3.276


asym_bpm1i04WS_rms vs run
χ² / ndf 1755 / 50
p0 148 ± 0.146
165
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
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
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7977. 3
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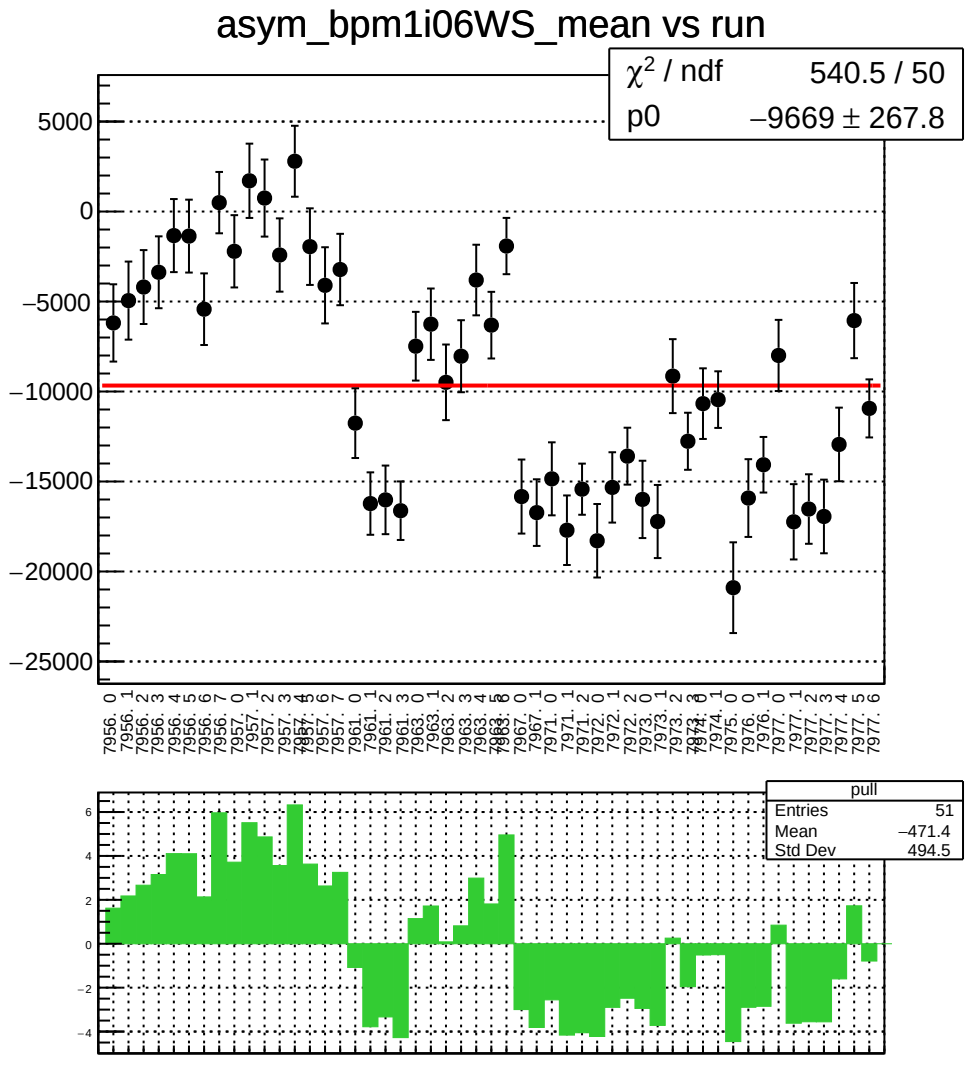
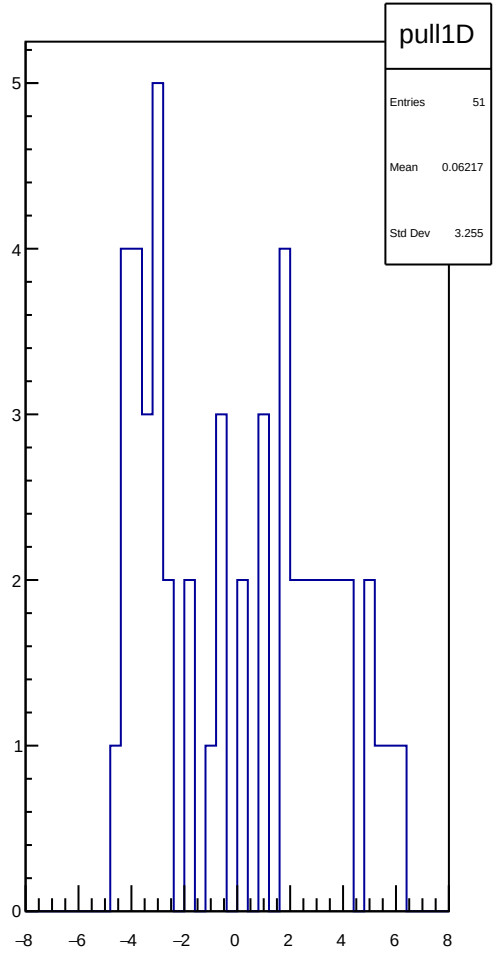
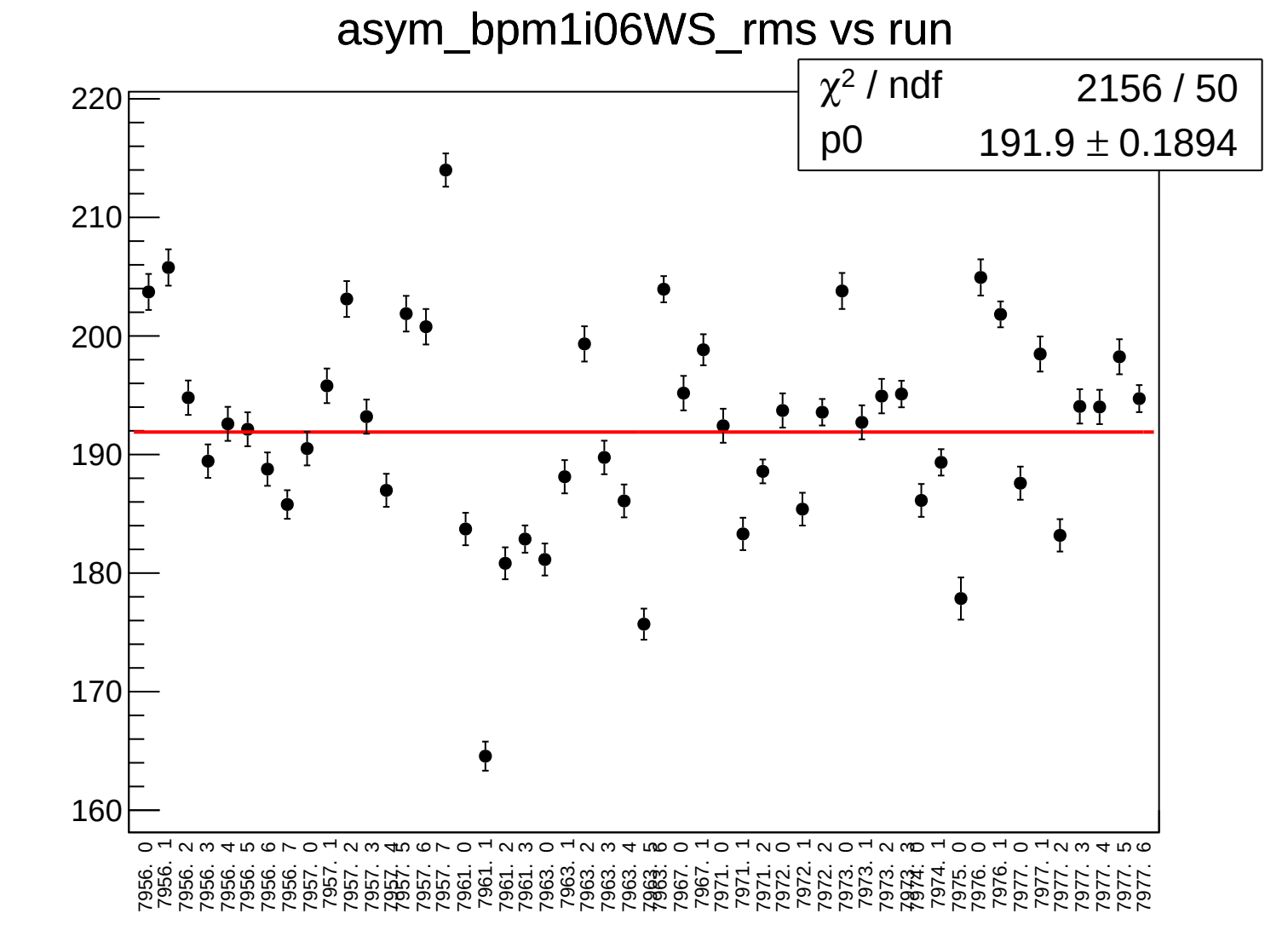
7977. 5
7977. 6


asym_bpm1i06WS_mean vs run
χ² / ndf 540.5 / 50
p0 −9669 ± 267.8
pull
Entries 51
Mean −471.4
Std Dev 494.5


pull1D
Entries 51
Mean 0.06217
Std Dev 3.255


asym_bpm1i06WS_rms vs run
χ² / ndf 2156 / 50
p0 191.9 ± 0.1894
220
210
200
190
180
170
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
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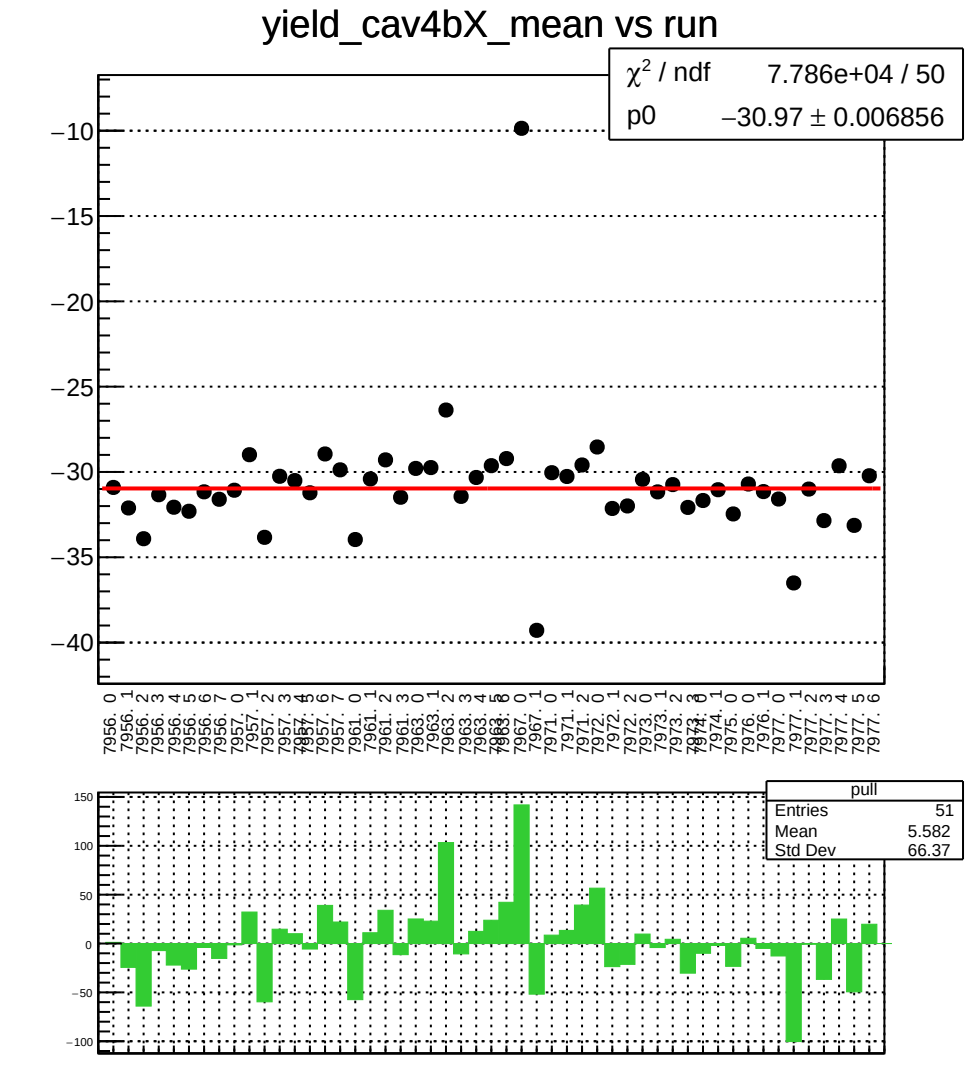
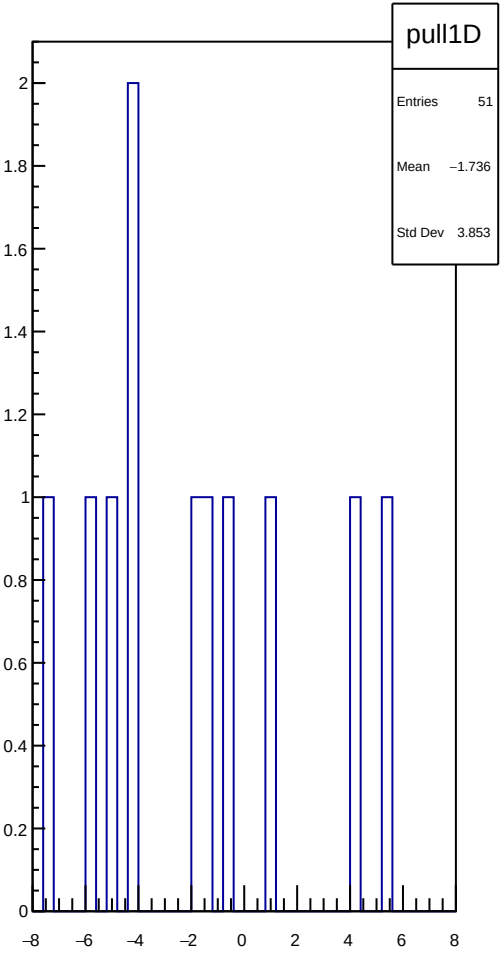
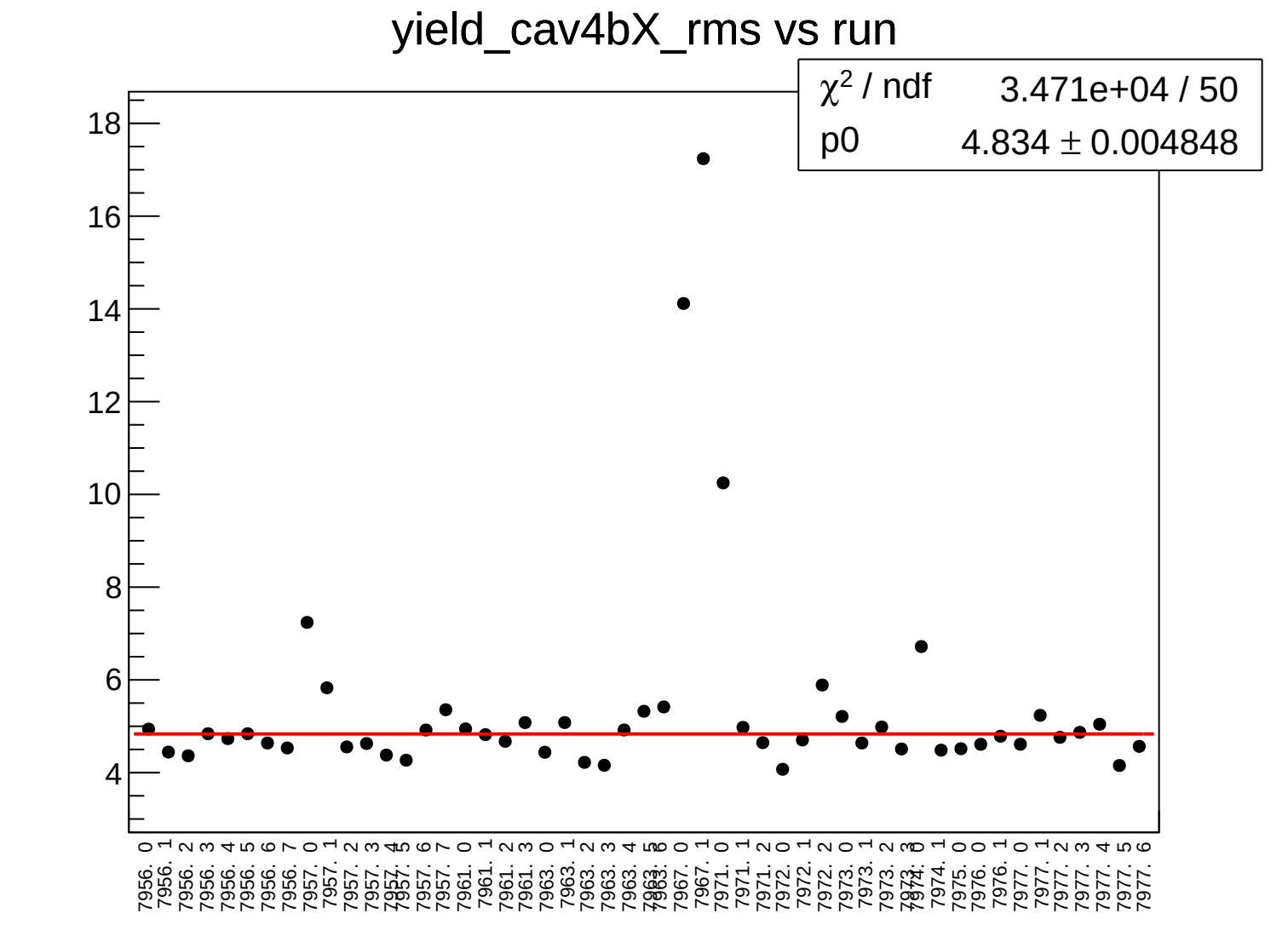
7977. 5
7977. 6


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
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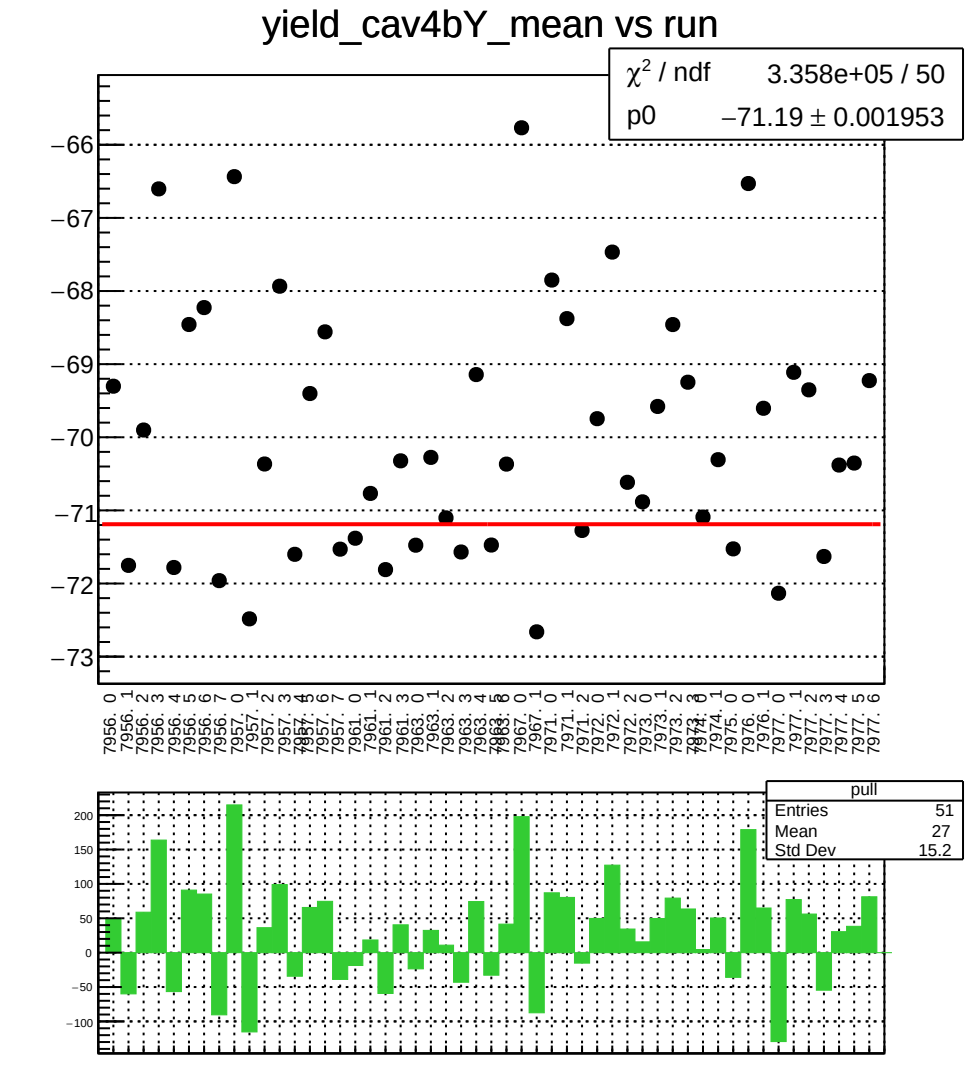
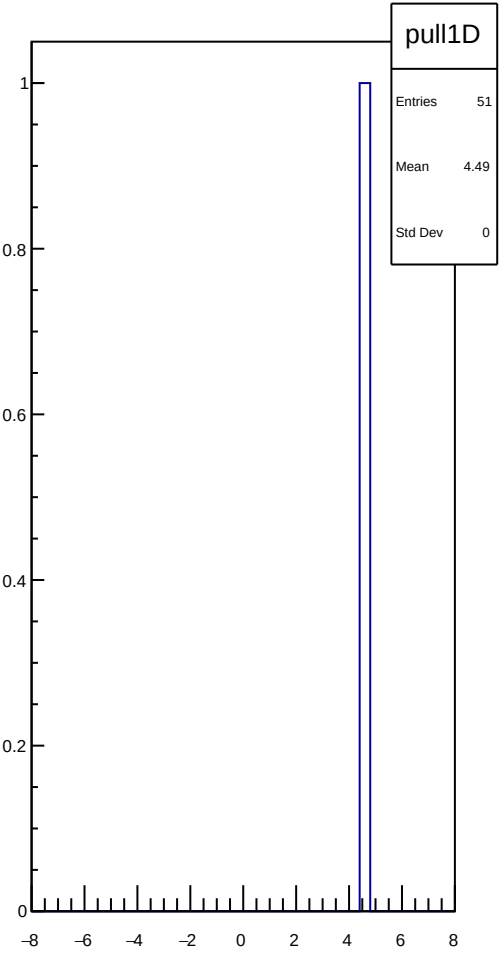
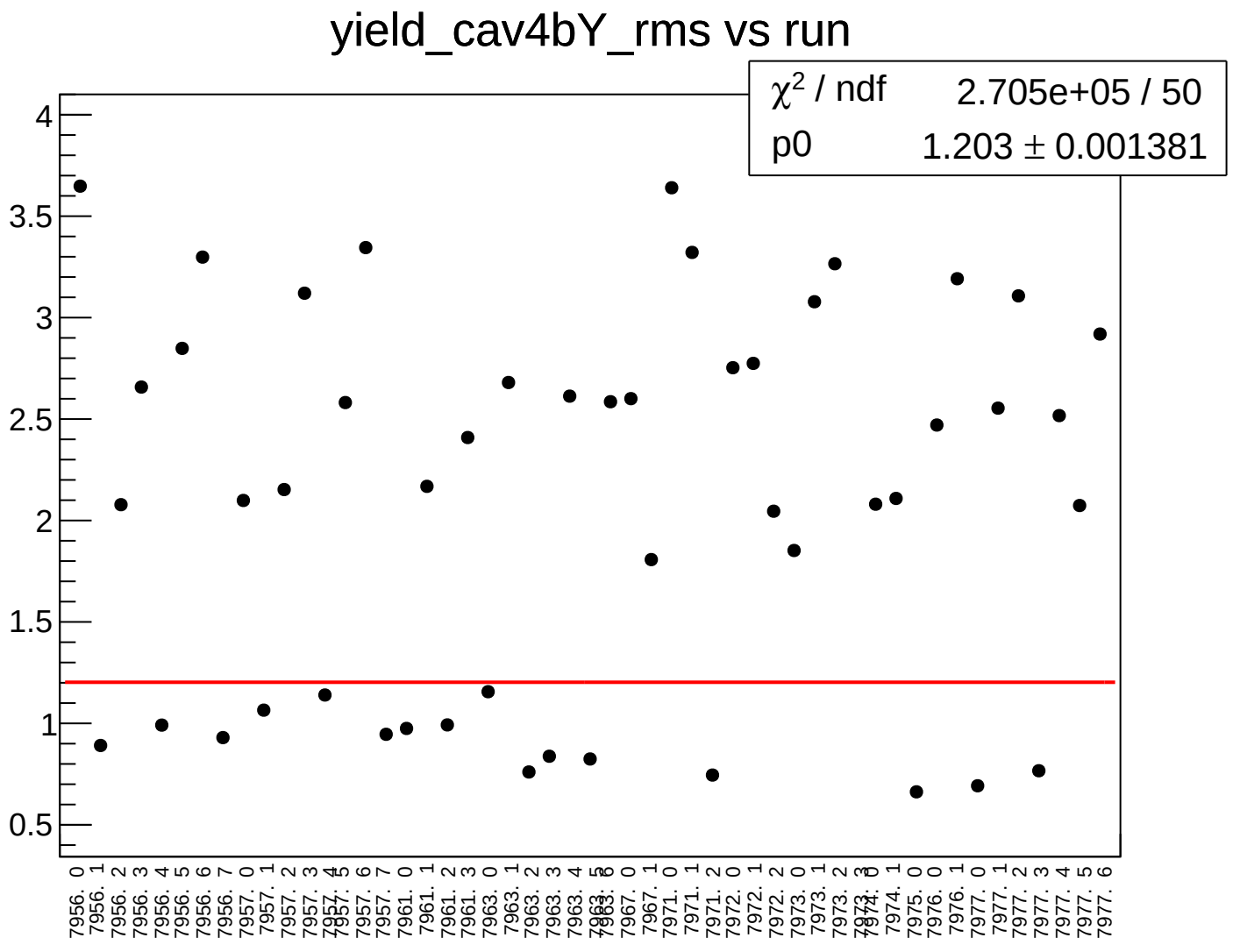
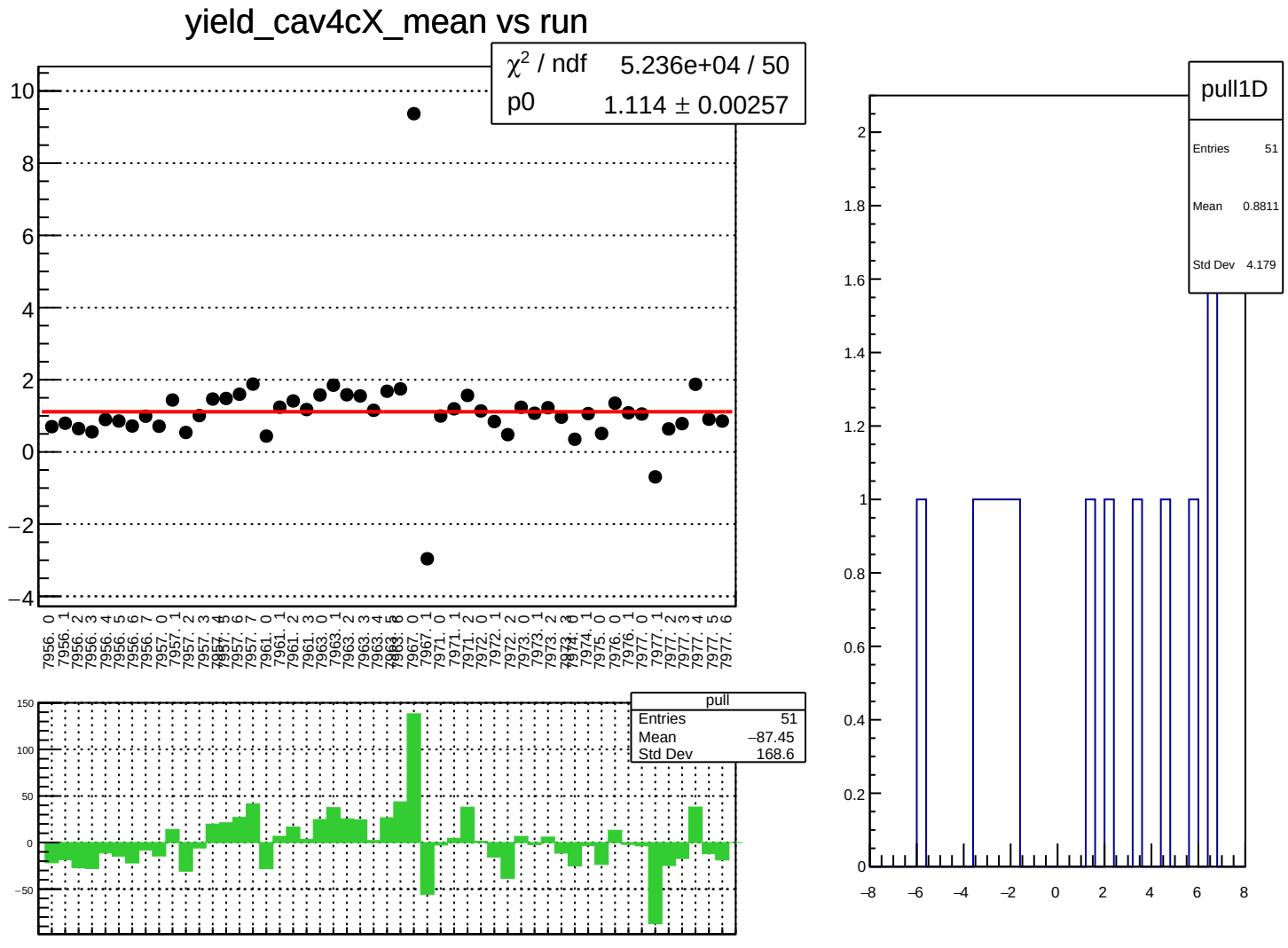
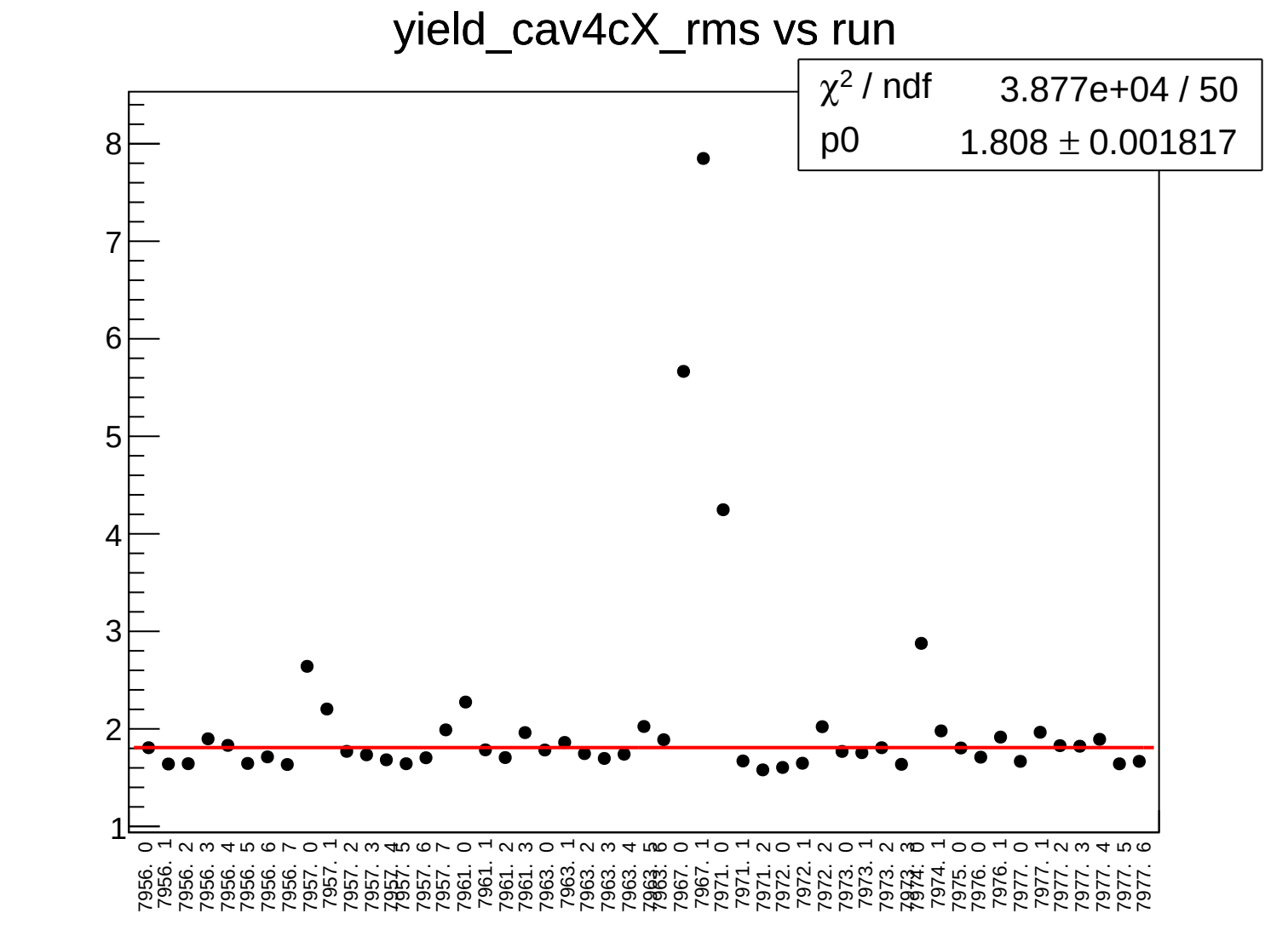
7977. 5
7977. 6

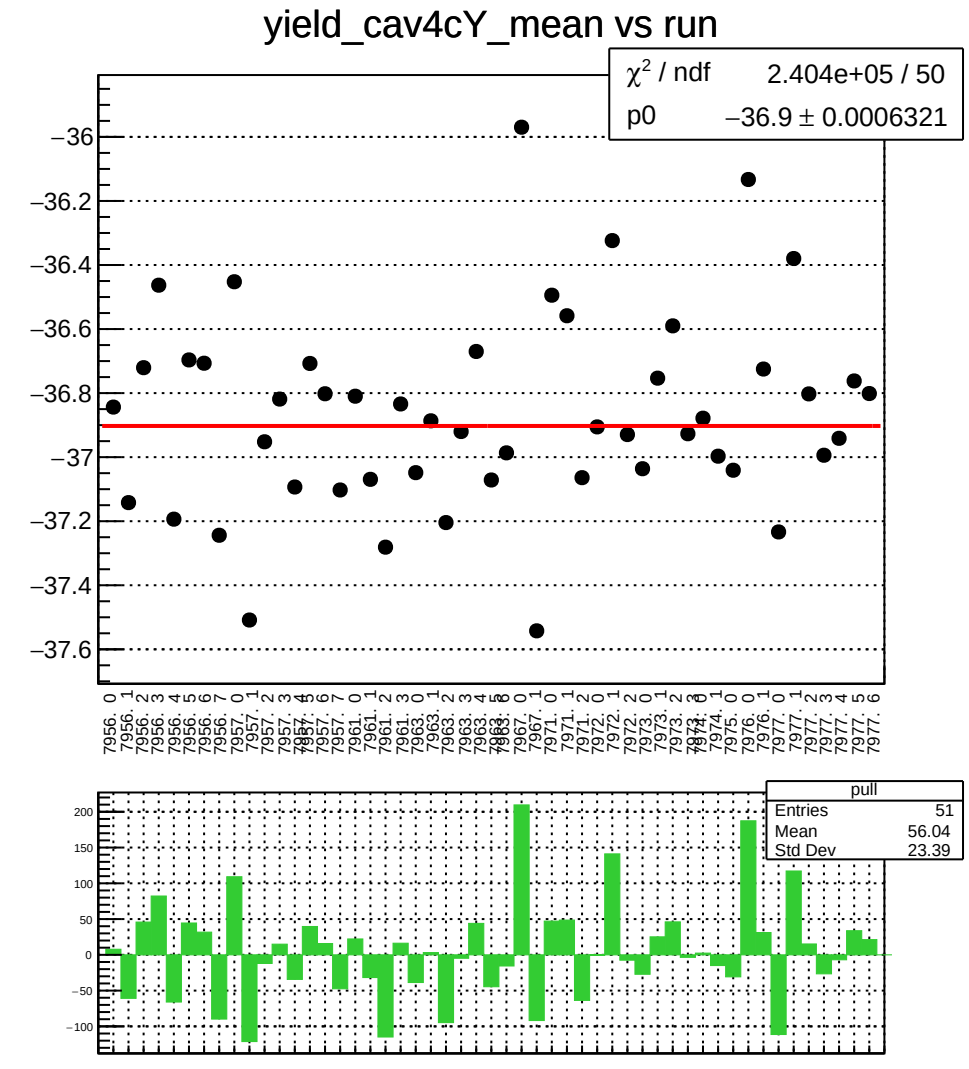

yield_cav4bY_mean vs run
χ² / ndf 3.358e+05 / 50
p0 −71.19 ± 0.001953
pull
Entries 51
Mean 27
Std Dev 15.2

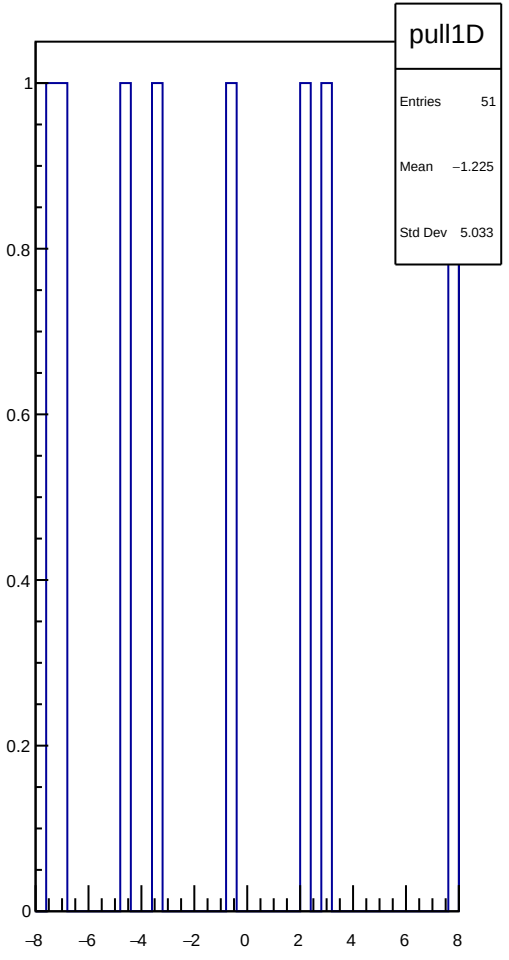

pull1D
Entries 51
Mean 4.49
Std Dev 0

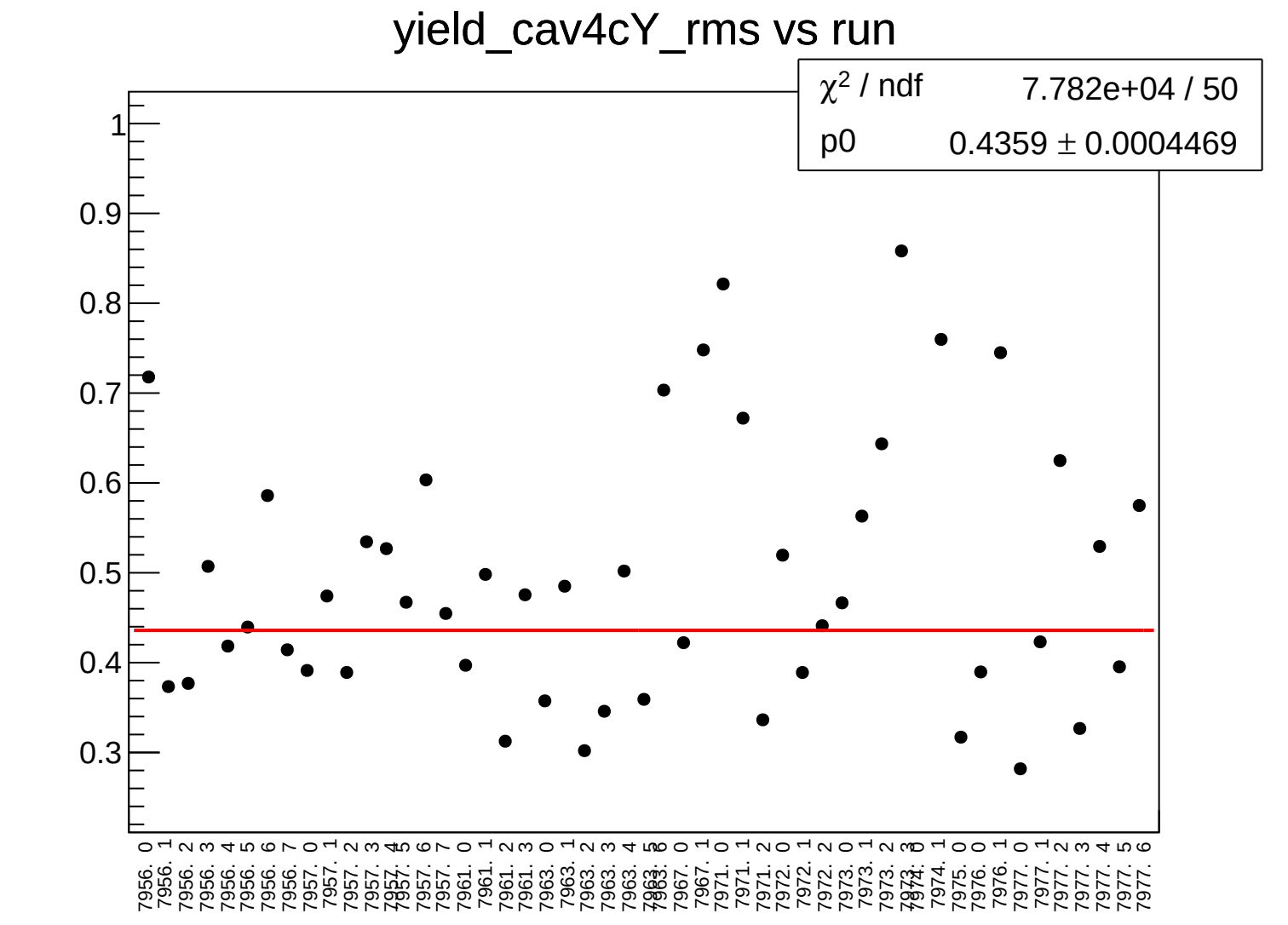

yield_cav4bY_rms vs run
χ² / ndf 2.705e+05 / 50
p0 1.203 ± 0.001381
4
3.5
3
2.5
2
1.5
1
0.5
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971.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

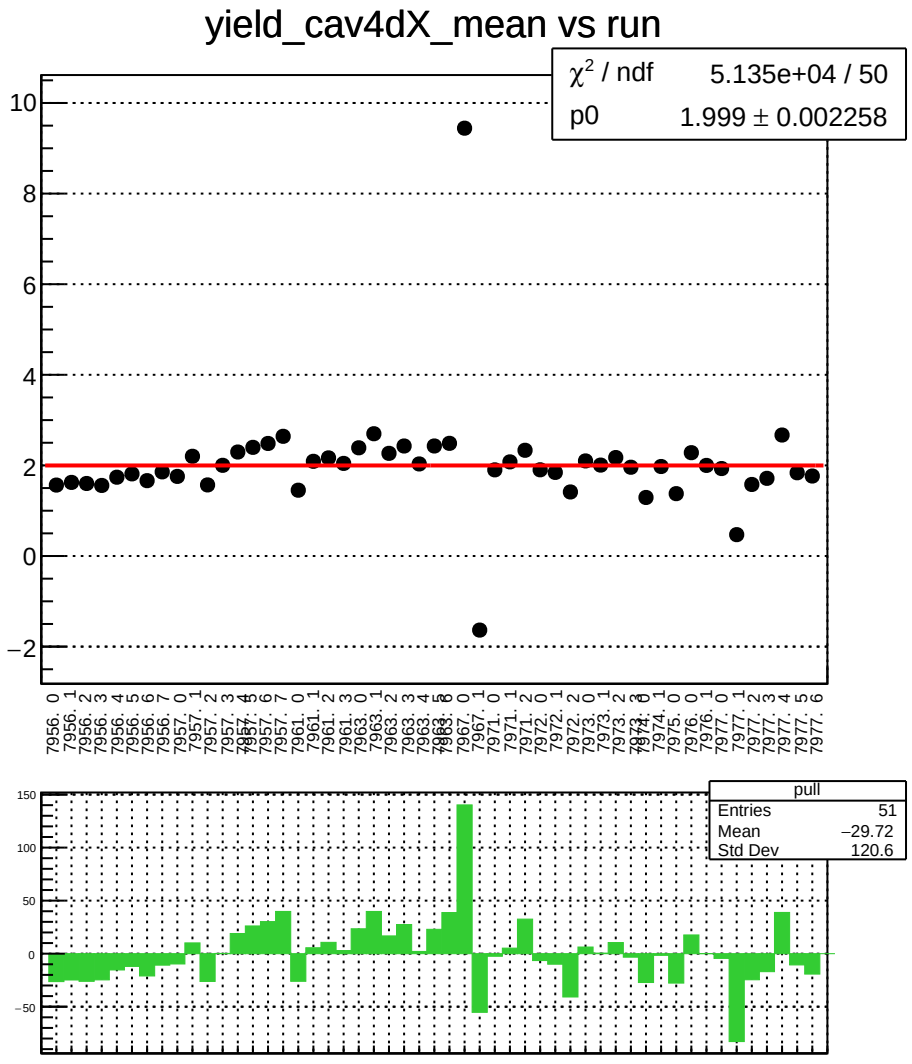

yield_cav4cX_mean vs run
χ² / ndf 5.236e+04 / 50
p0 1.114 ± 0.00257
pull
Entries 51
Mean −87.45
Std Dev 168.6
pull1D
Entries 51
Mean 0.8811
Std Dev 4.179

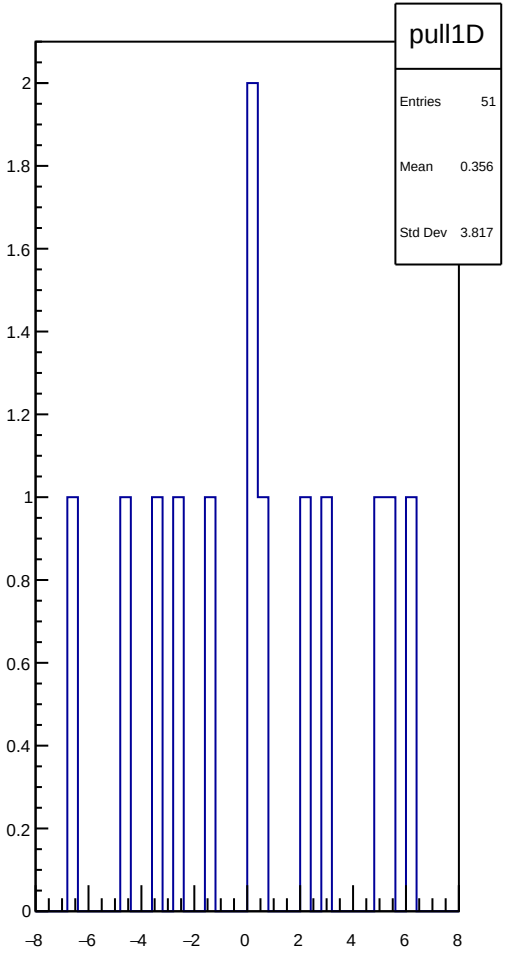

yield_cav4cX_rms vs run
χ^2 / ndf 3.877e+04 / 50
p0 1.808 ± 0.001817
8
7
6
5
4
3
2
1
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1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

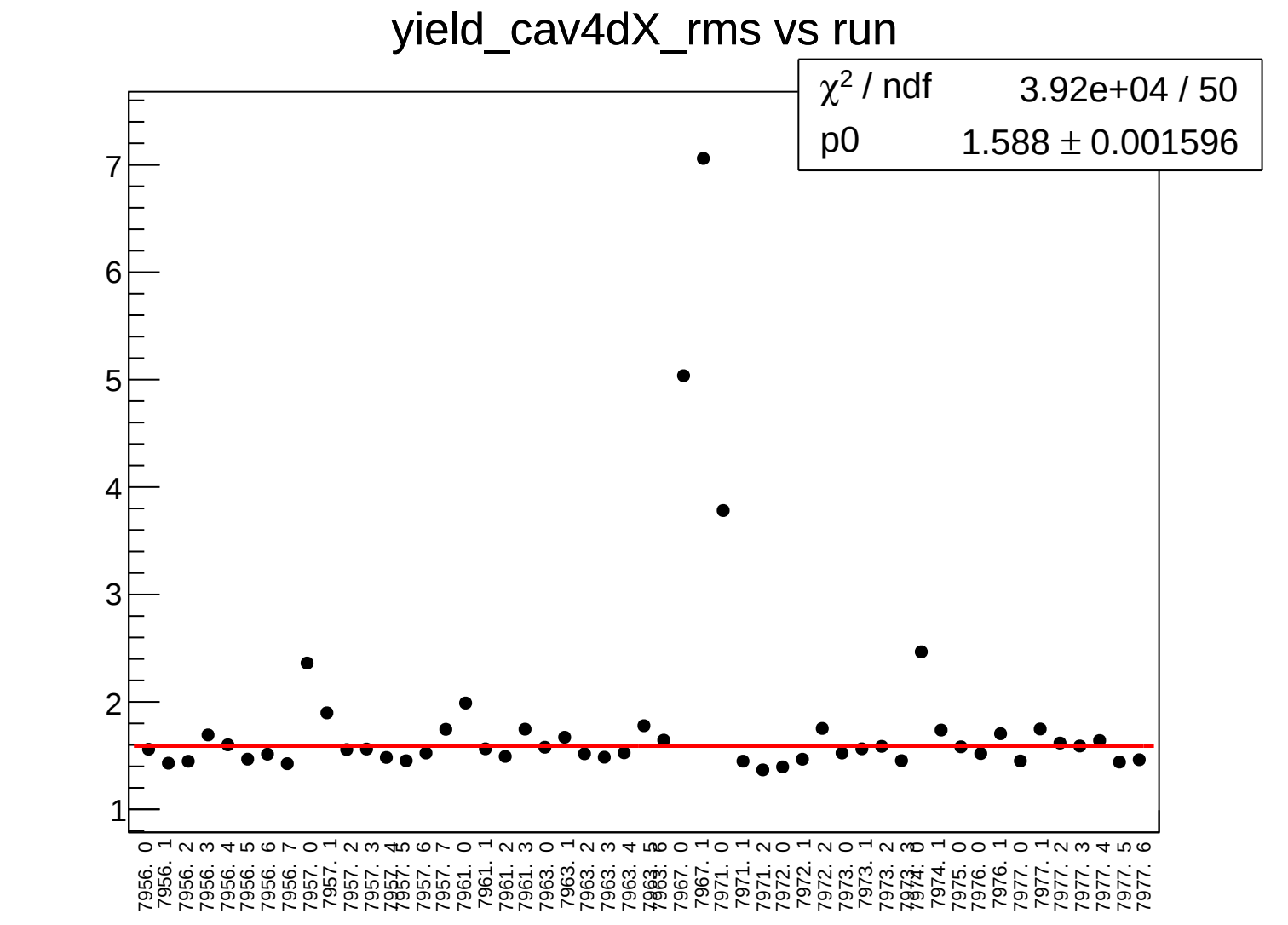

yield_cav4cY_mean vs run
χ² / ndf 2.404e+05 / 50
p0 −36.9 ± 0.0006321
pull
Entries 51
Mean 56.04
Std Dev 23.39

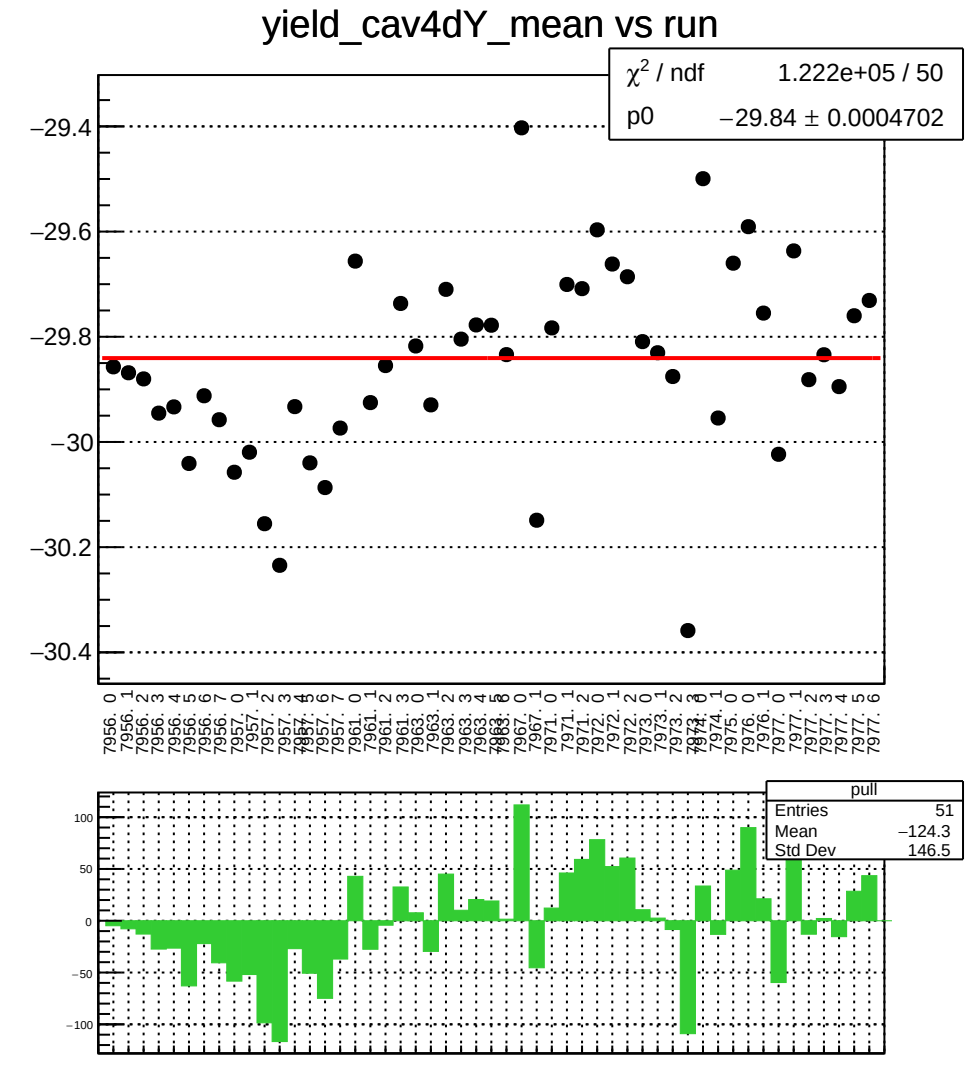

pull1D
Entries 51
Mean −1.225
Std Dev 5.033

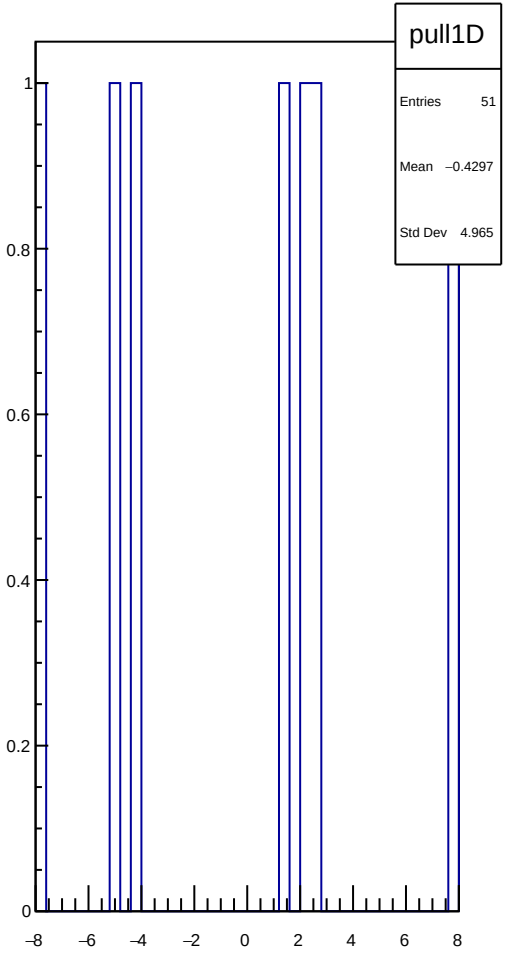

yield_cav4cY_rms vs run
χ² / ndf 7.782e+04 / 50
p0 0.4359 ± 0.0004469
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

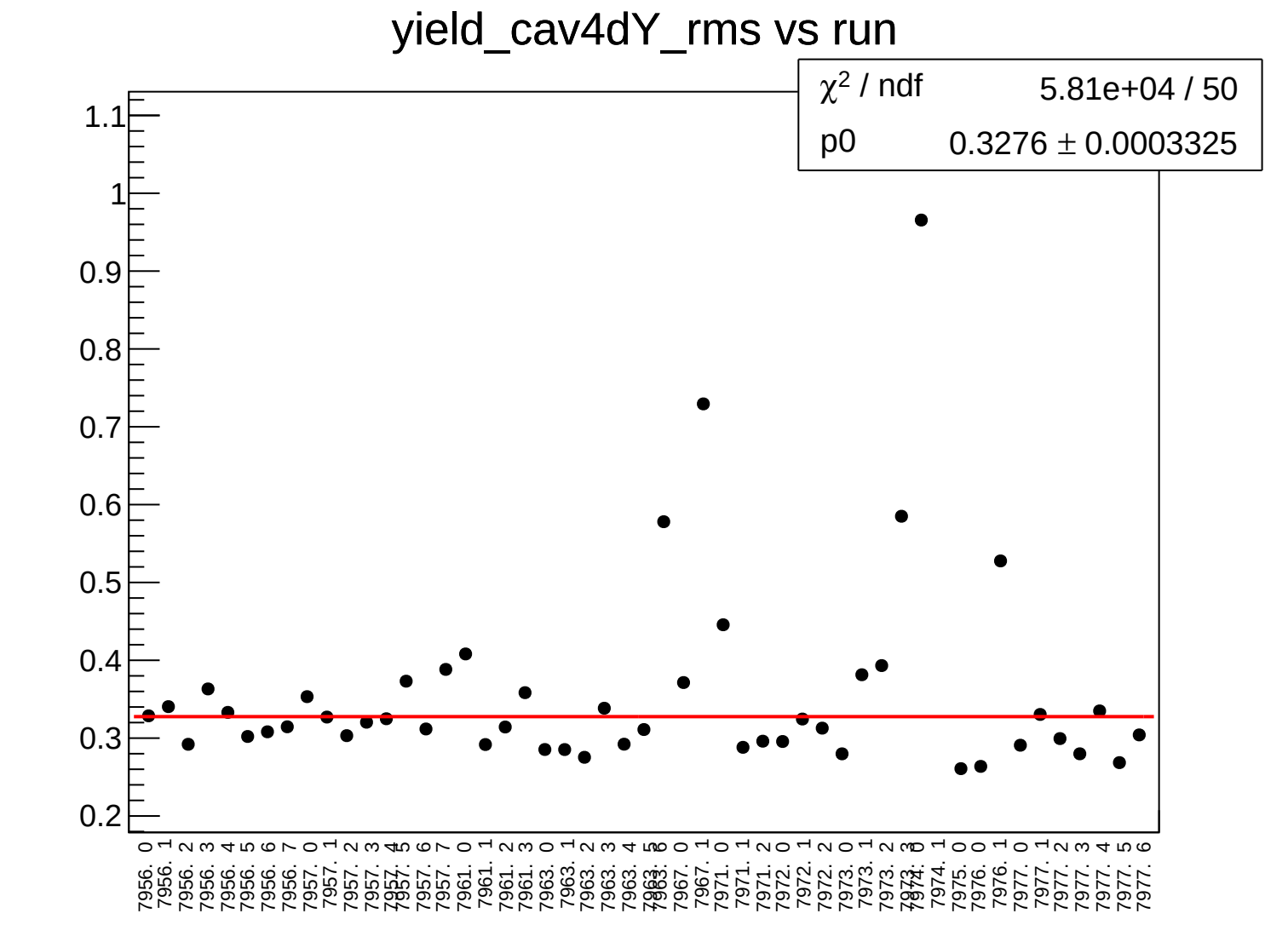

yield_cav4dX_mean vs run
χ² / ndf 5.135e+04 / 50
p0 1.999 ± 0.002258
pull
Entries 51
Mean −29.72
Std Dev 120.6


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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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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7976. 1
7977. 0
7977. 1
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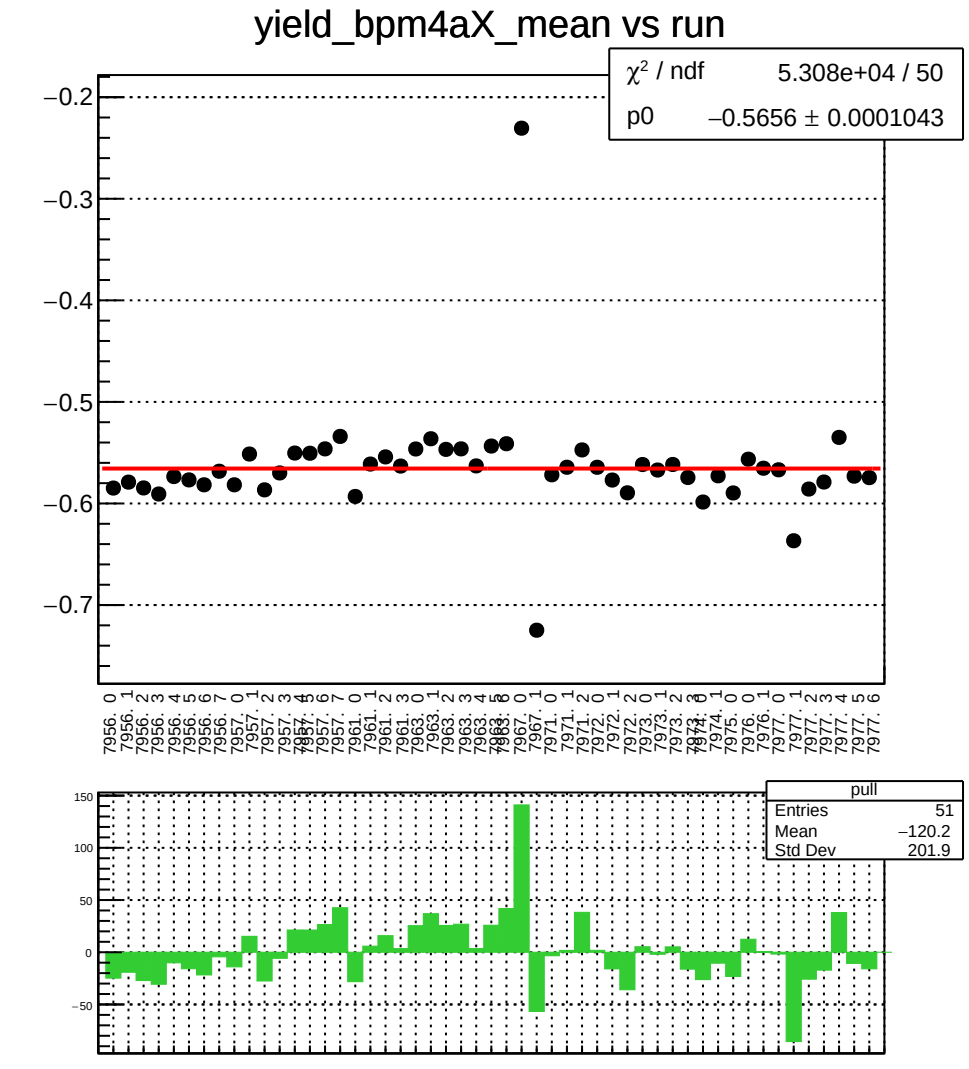
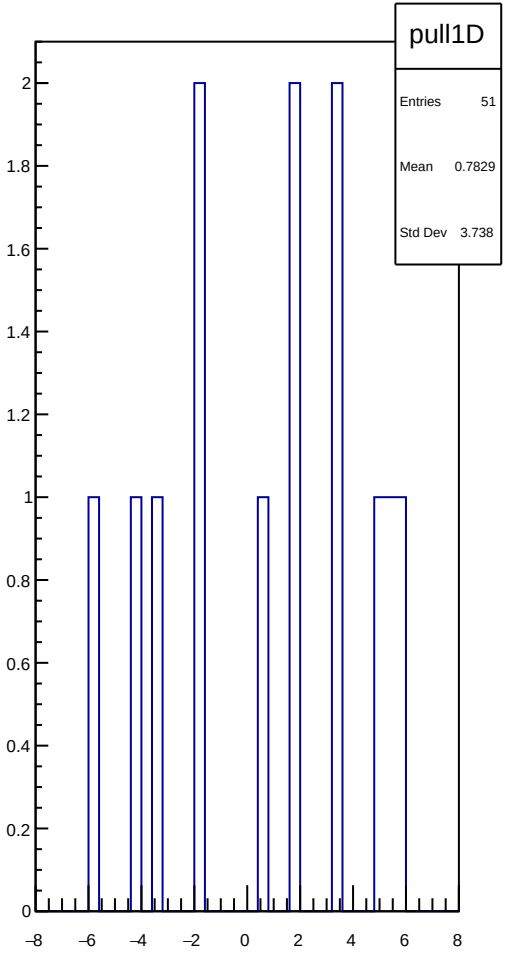
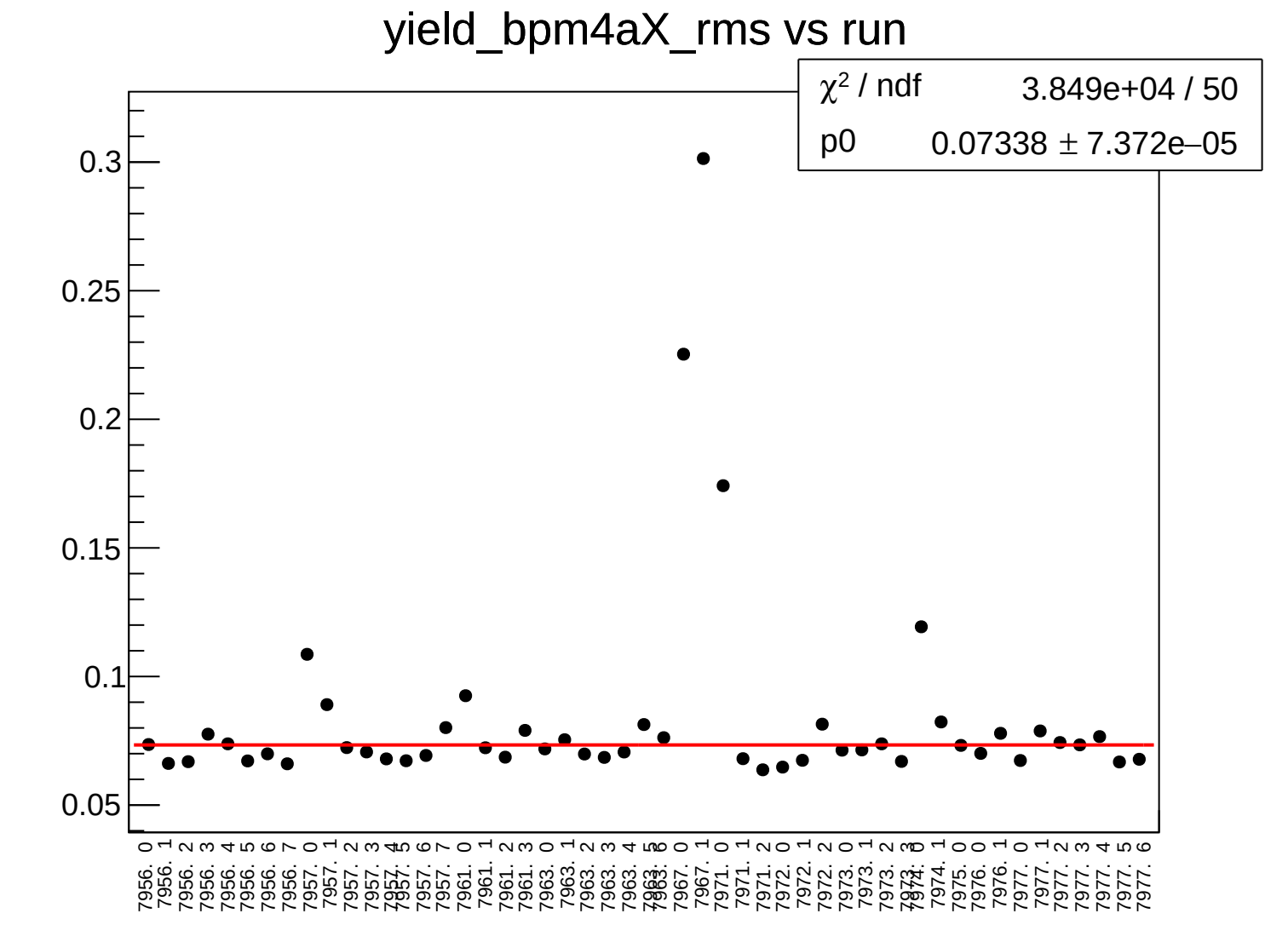
7977. 5
7977. 6


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
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7977. 3
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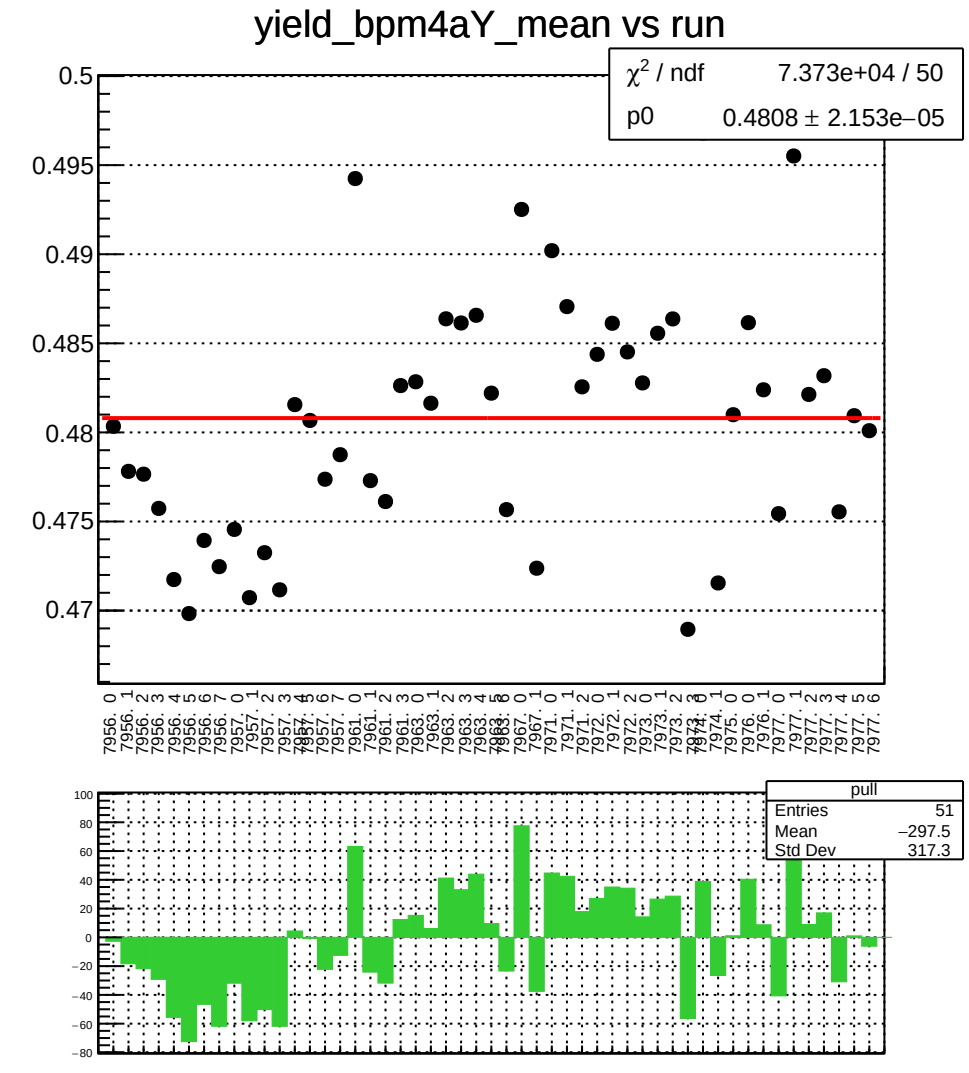
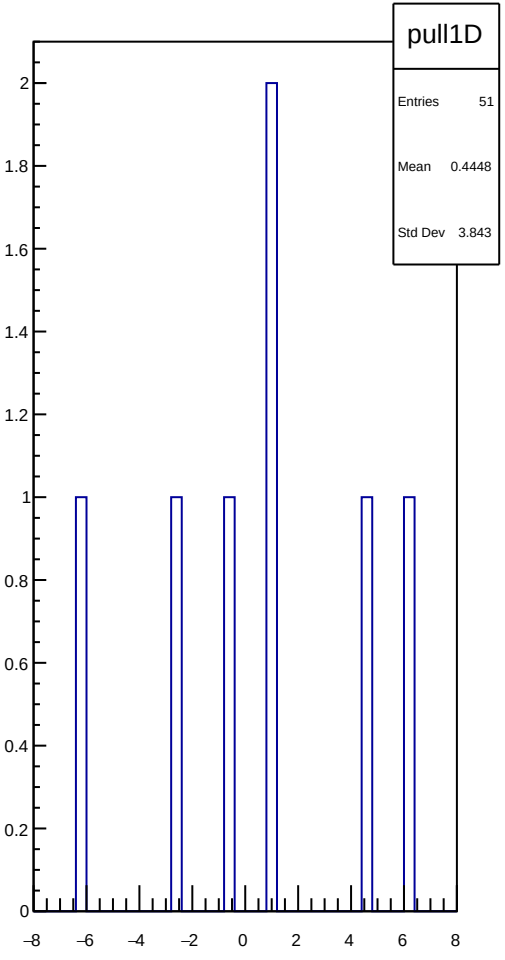
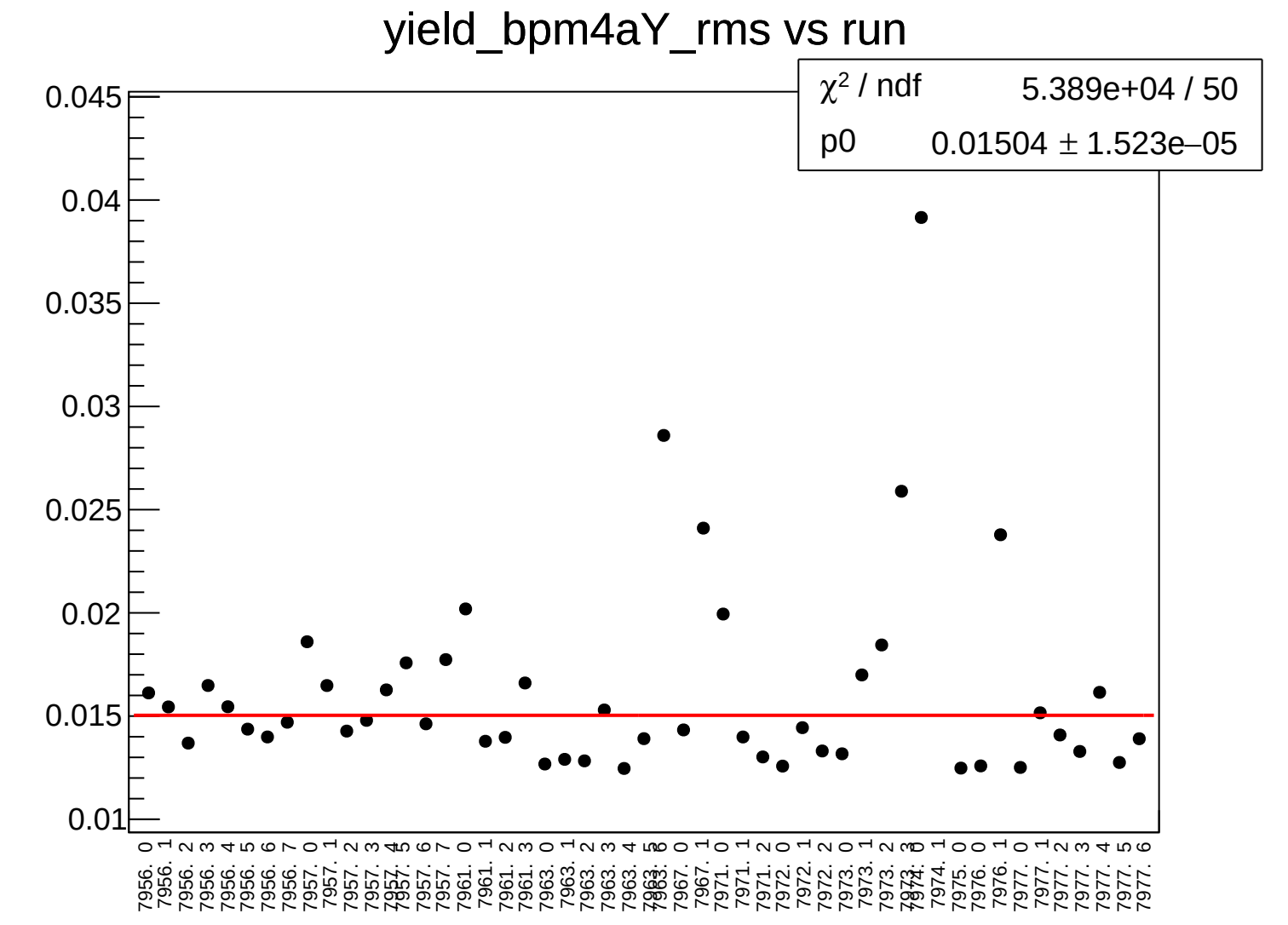
7977. 5
7977. 6


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
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
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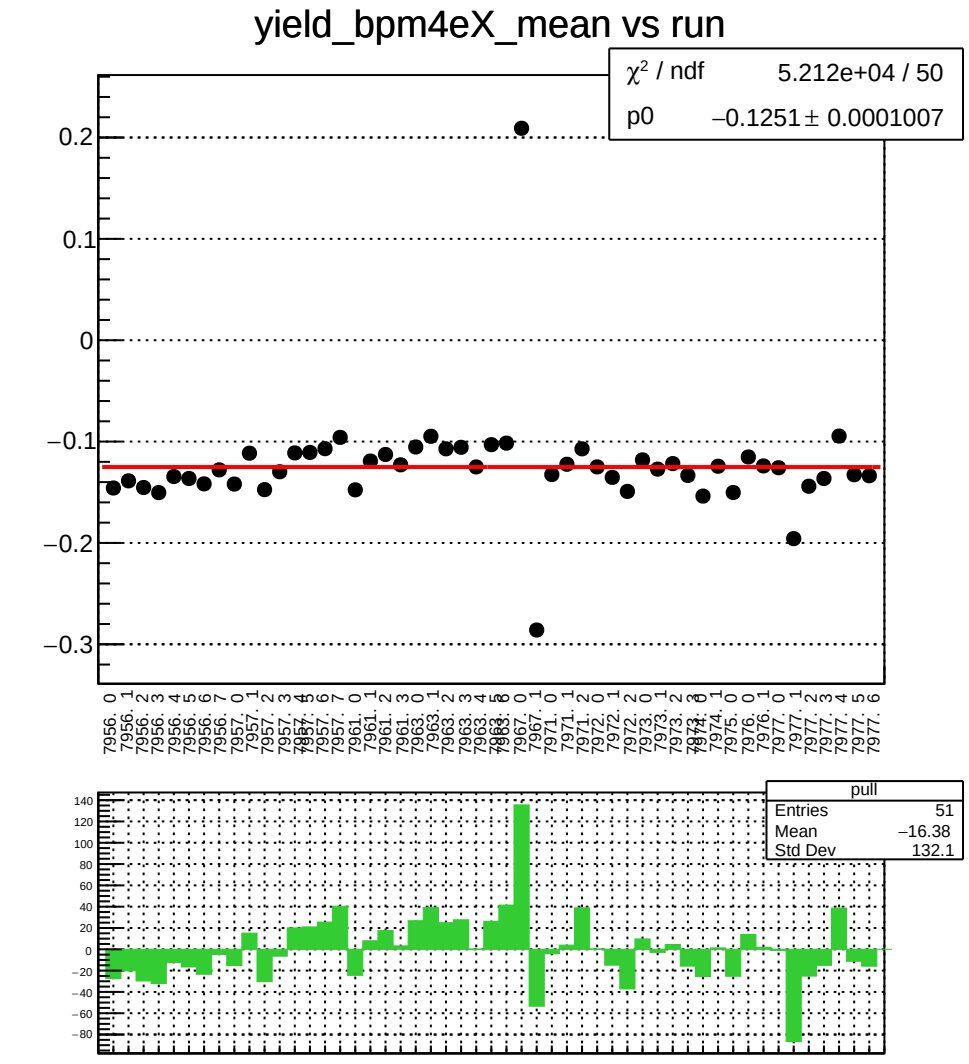
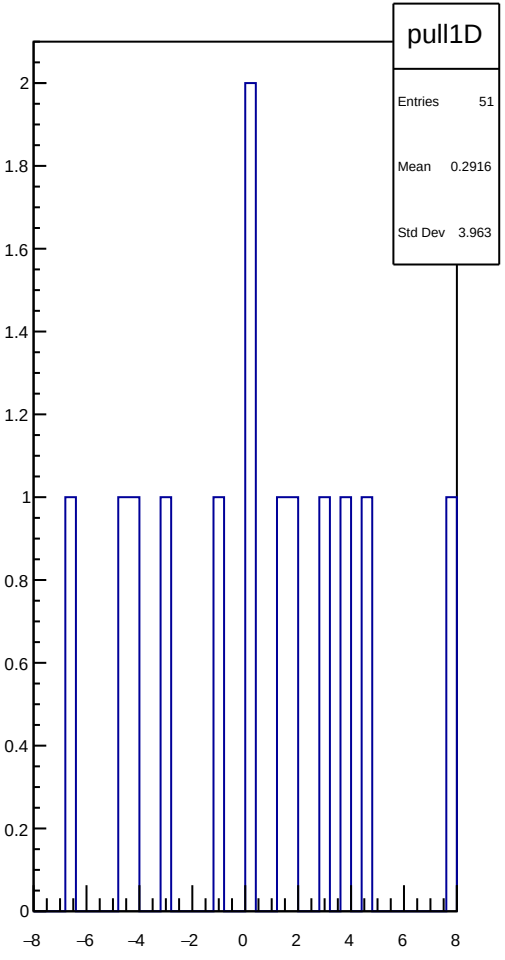
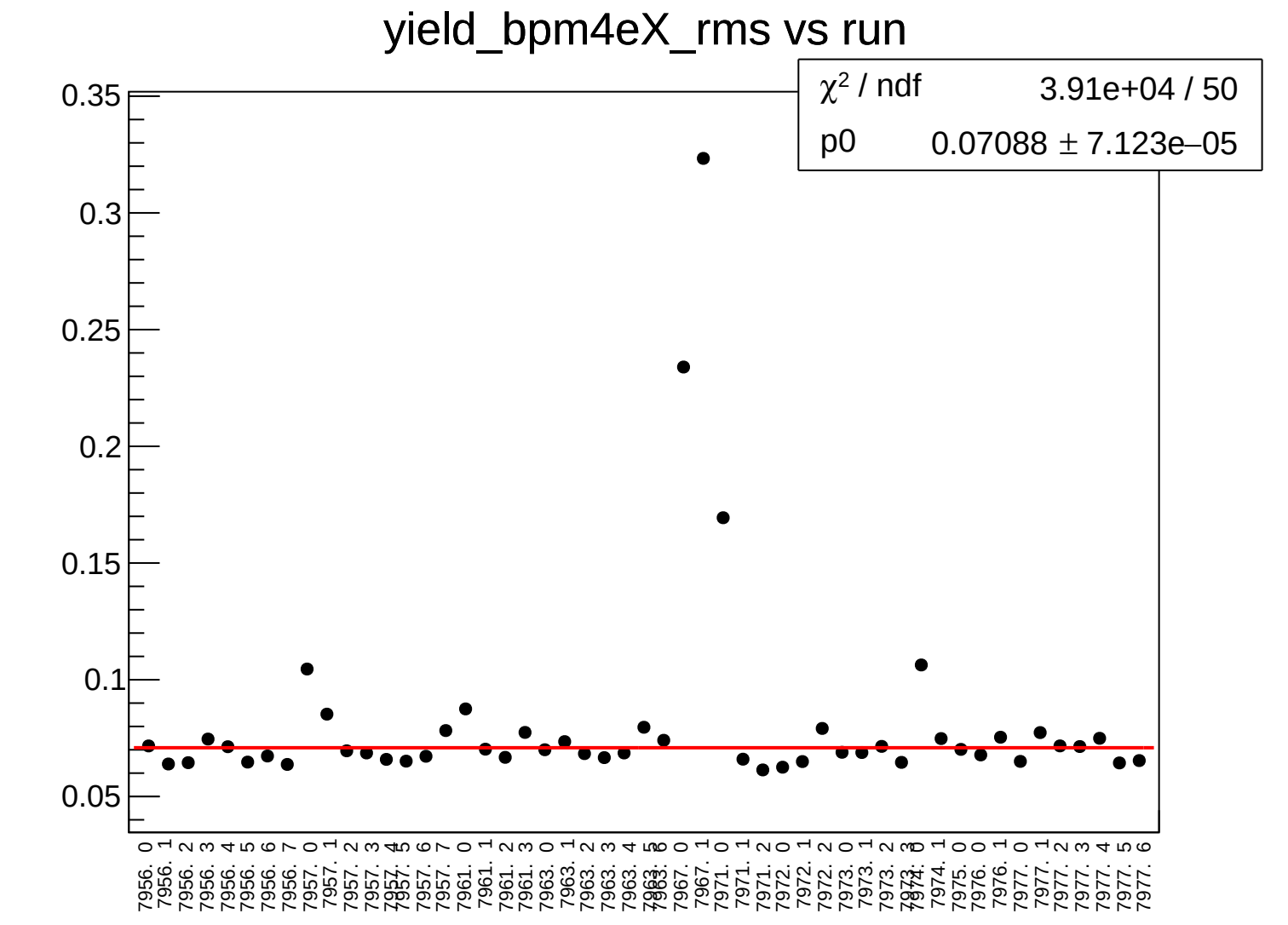
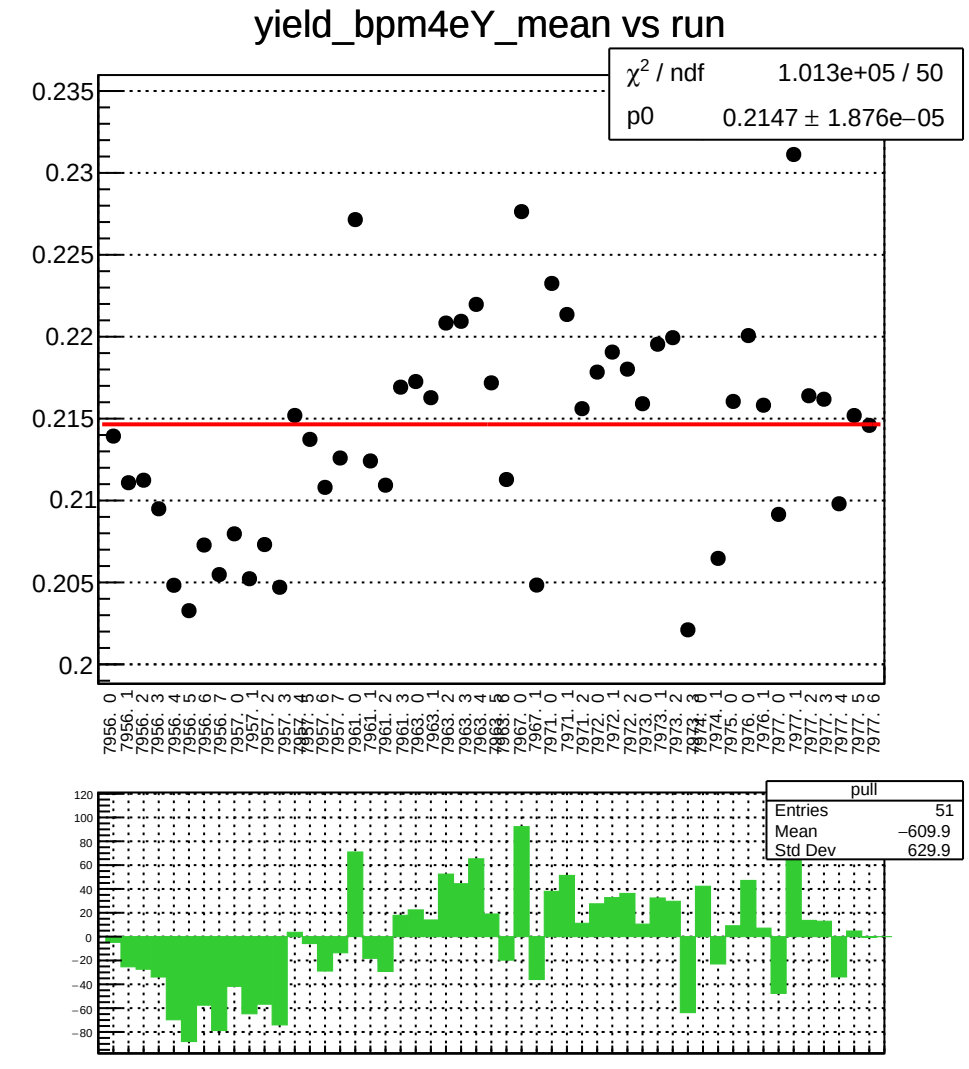
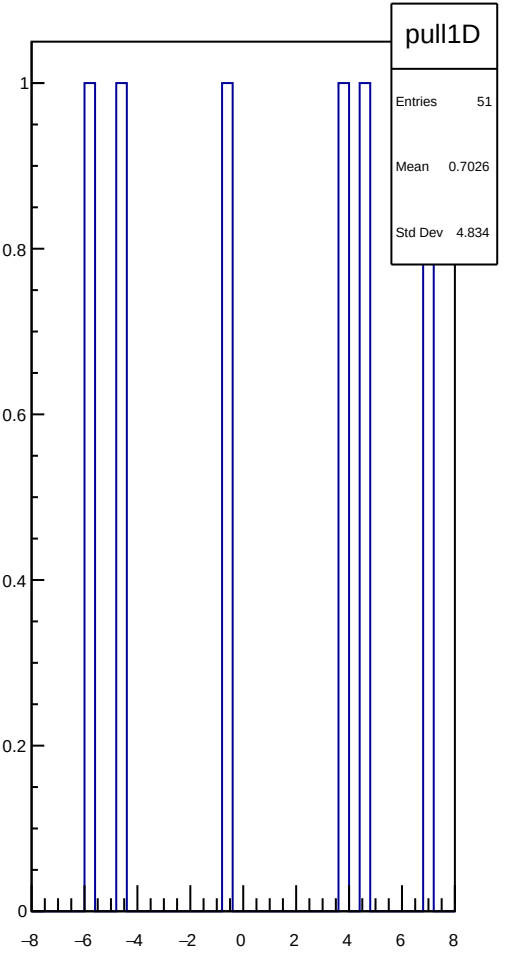
7977. 5
7977. 6

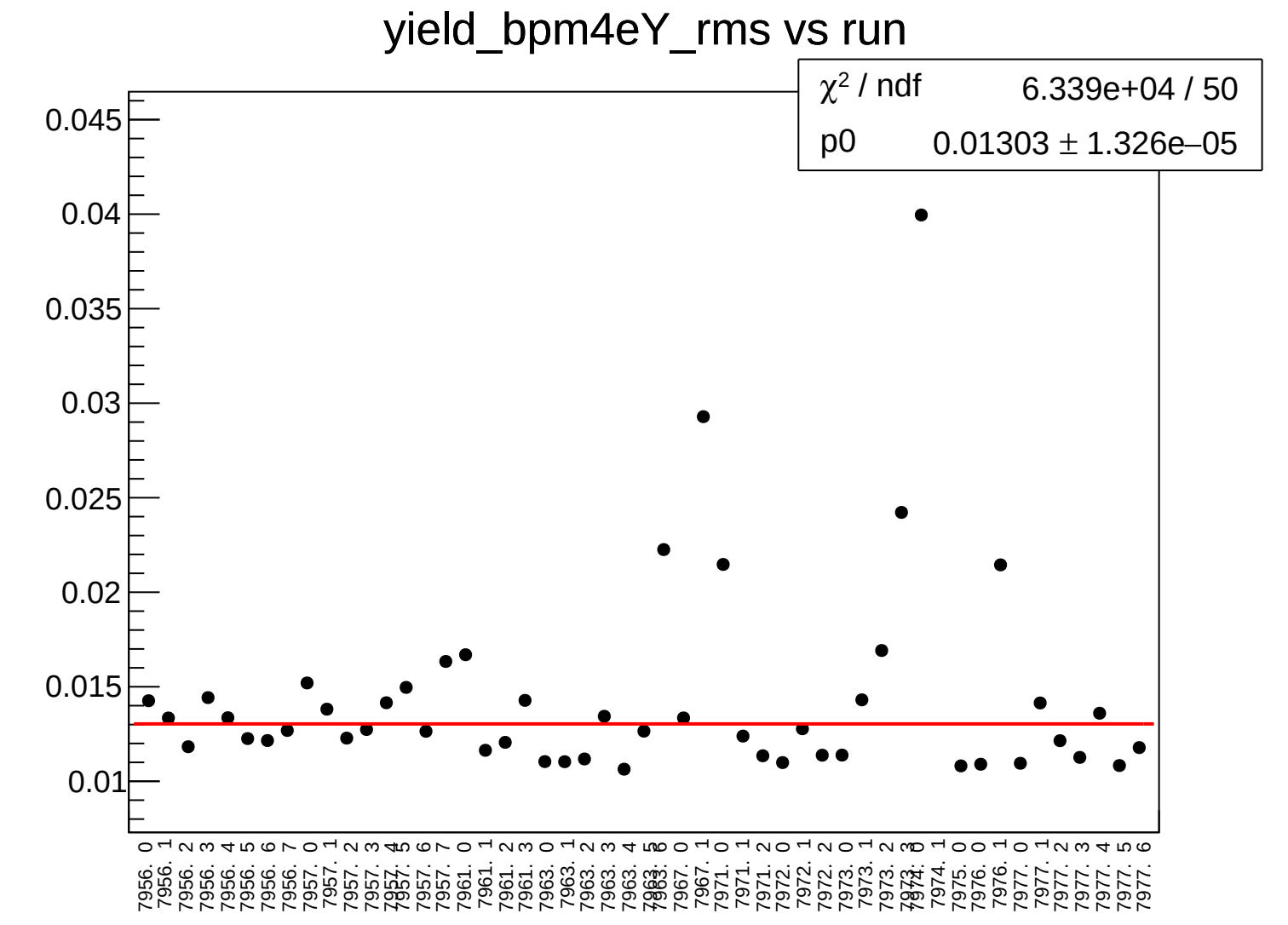

yield_bpm4eX_mean vs run
χ² / ndf 5.212e+04 / 50
p0 −0.1251 ± 0.0001007
pull
Entries 51
Mean −16.38
Std Dev 132.1

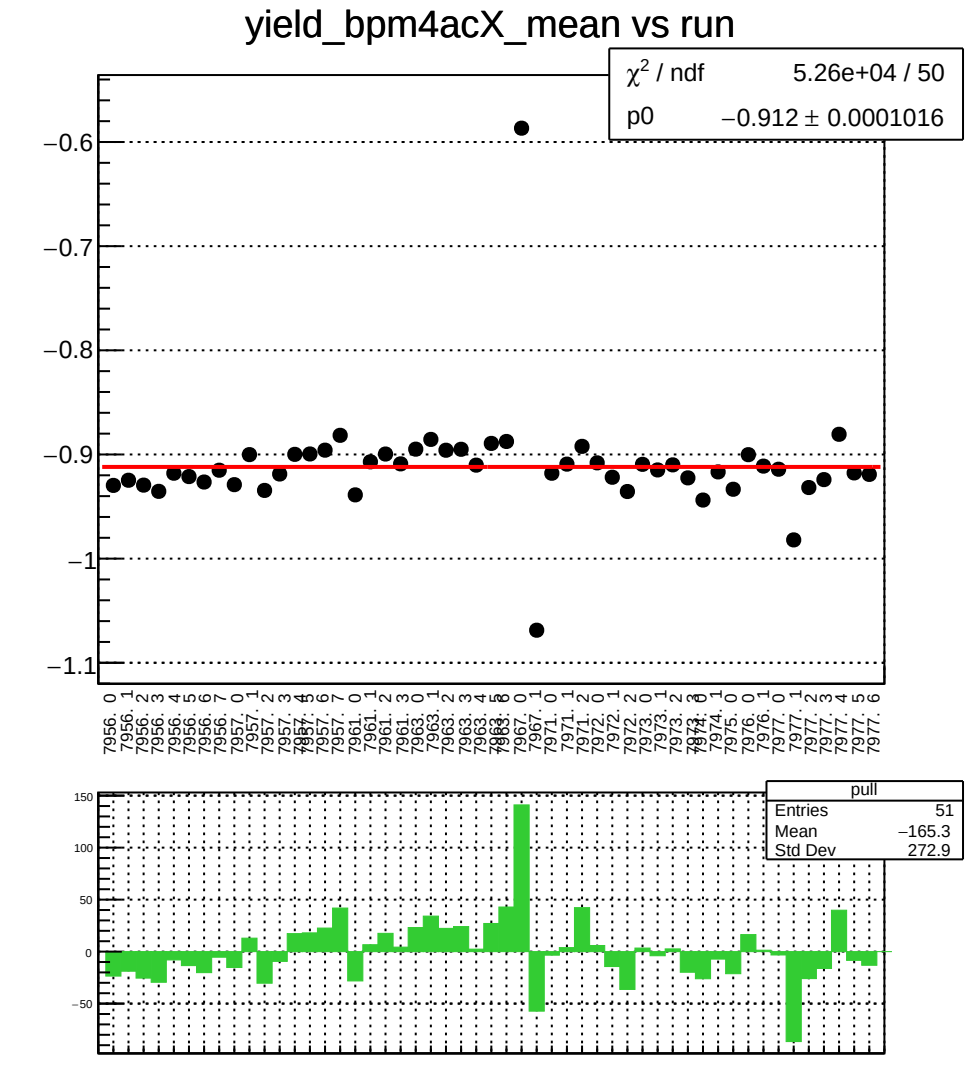

pull1D
Entries 51
Mean 0.2916
Std Dev 3.963

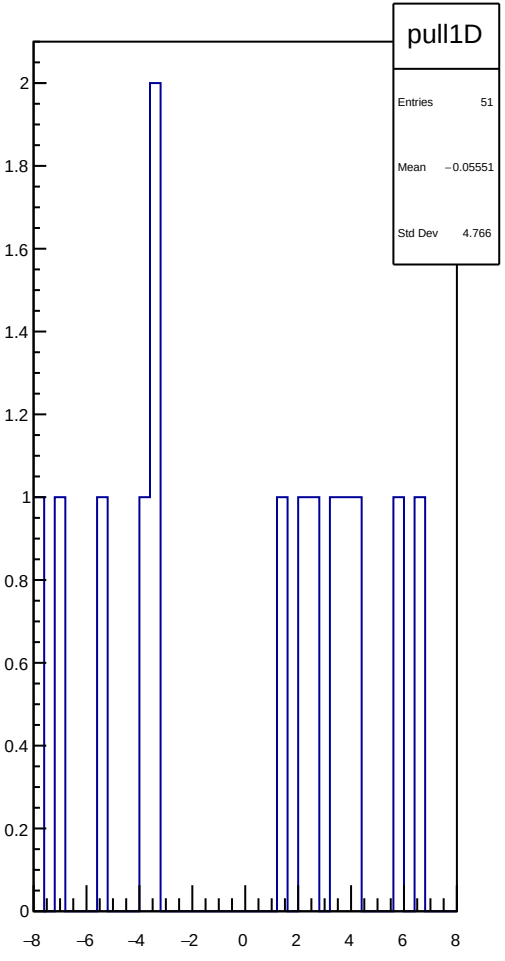

yield_bpm4eX_rms vs run
χ² / ndf 3.91e+04 / 50
p0 0.07088 ± 7.123e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

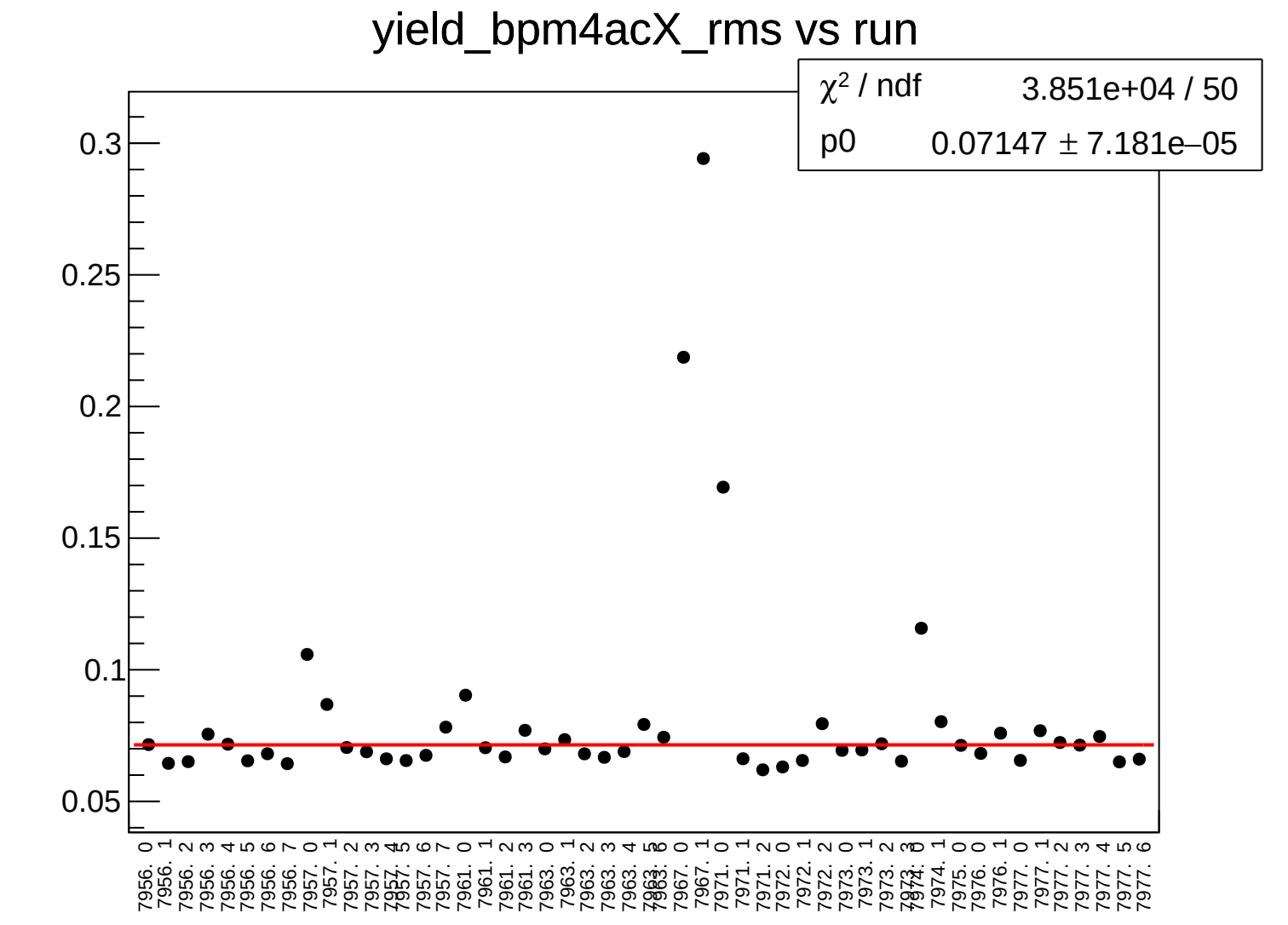

yield_bpm4eY_mean vs run
χ² / ndf 1.013e+05 / 50
p0 0.2147 ± 1.876e−05
0.235
0.23
0.225
0.22
0.215
0.21
0.205
0.2
pull
Entries 51
Mean −609.9
Std Dev 629.9
120
100
80
60
40
20
0
−20
−40
−60
−80


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
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7976. 1
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7977. 1
7977. 2
7977. 3
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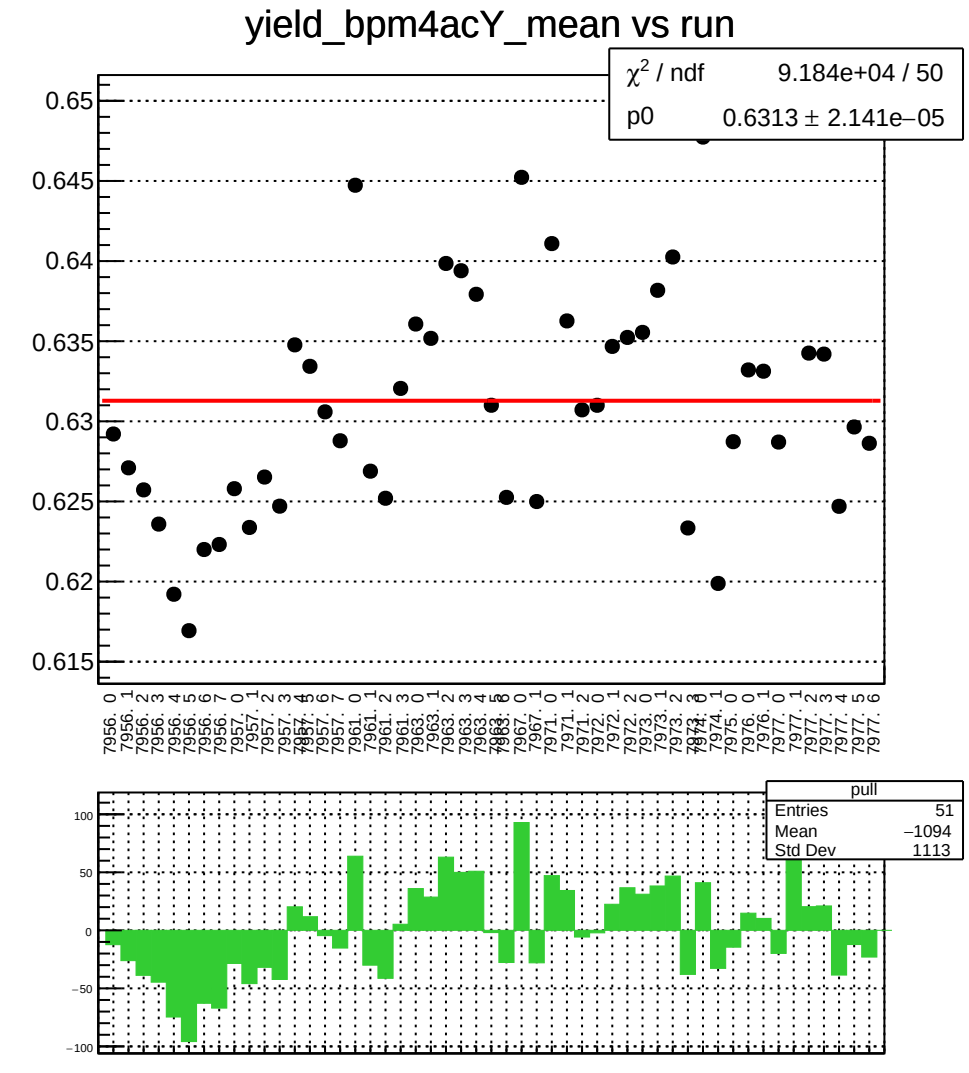
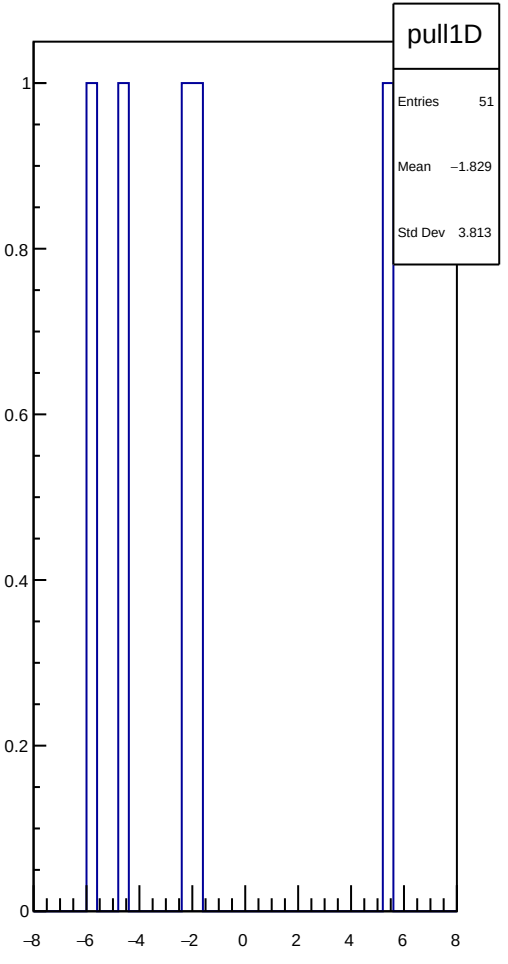
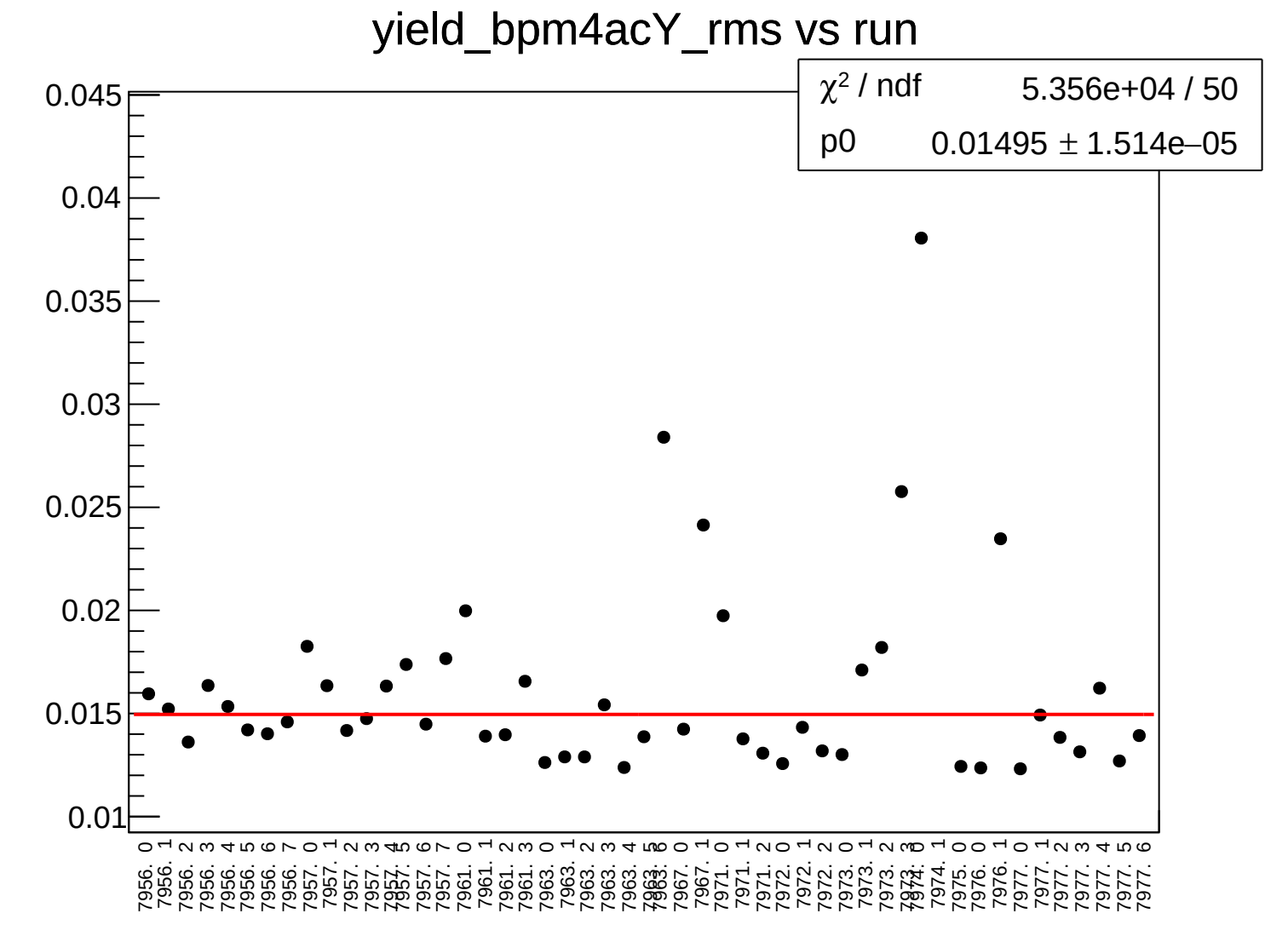
7977. 5
7977. 6


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
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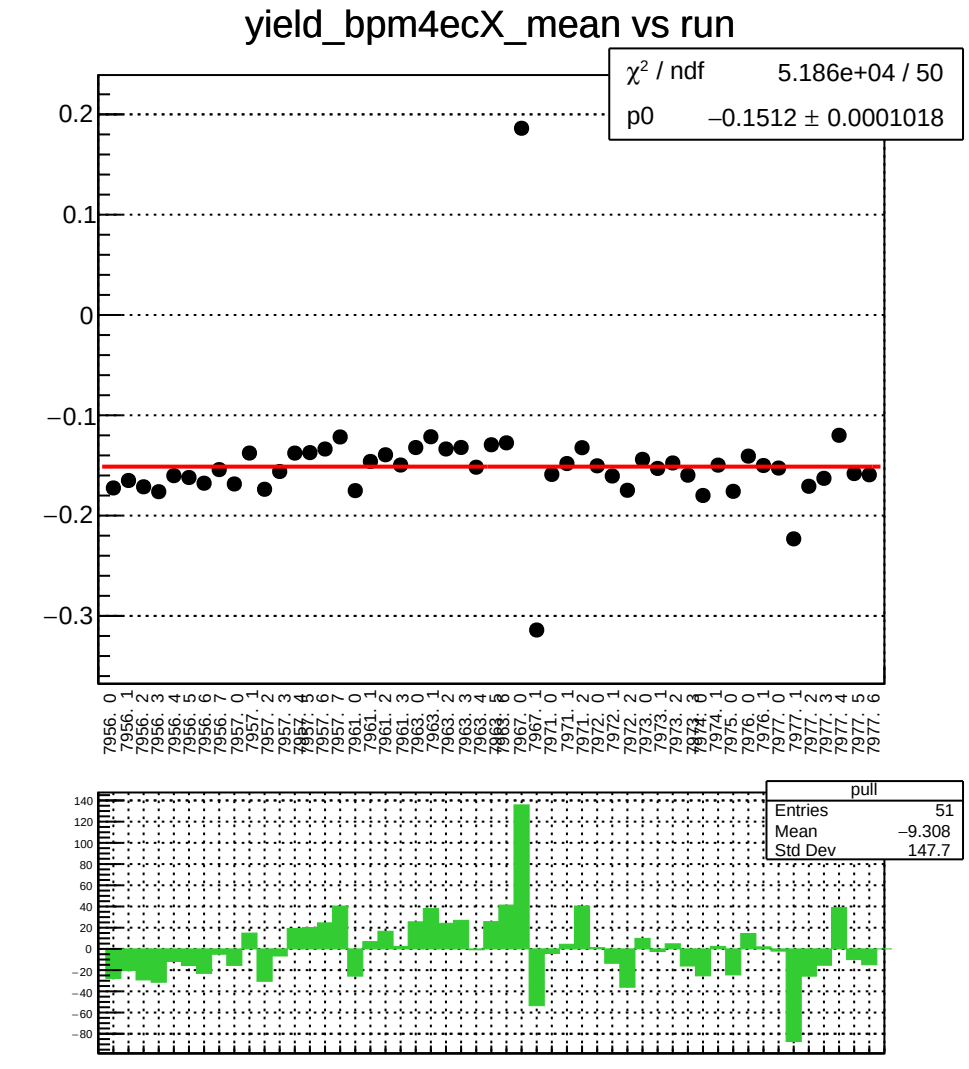
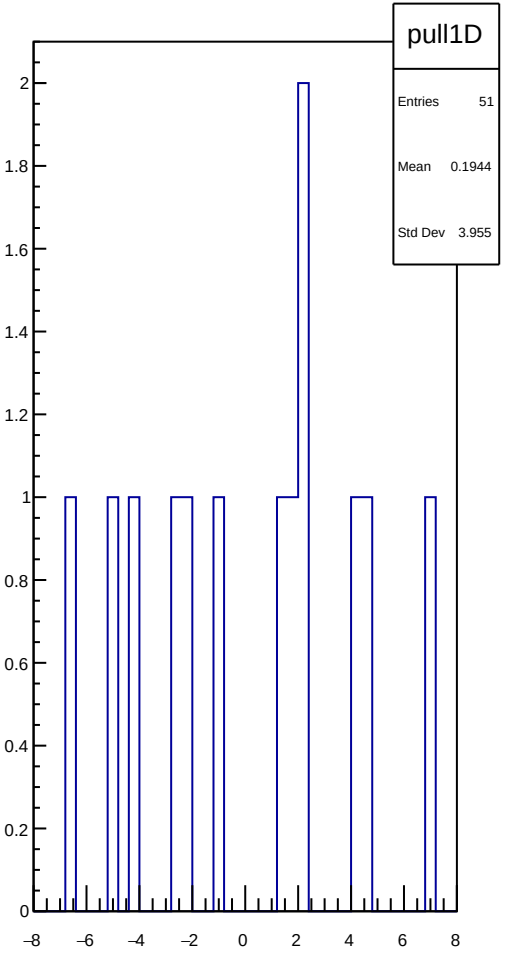
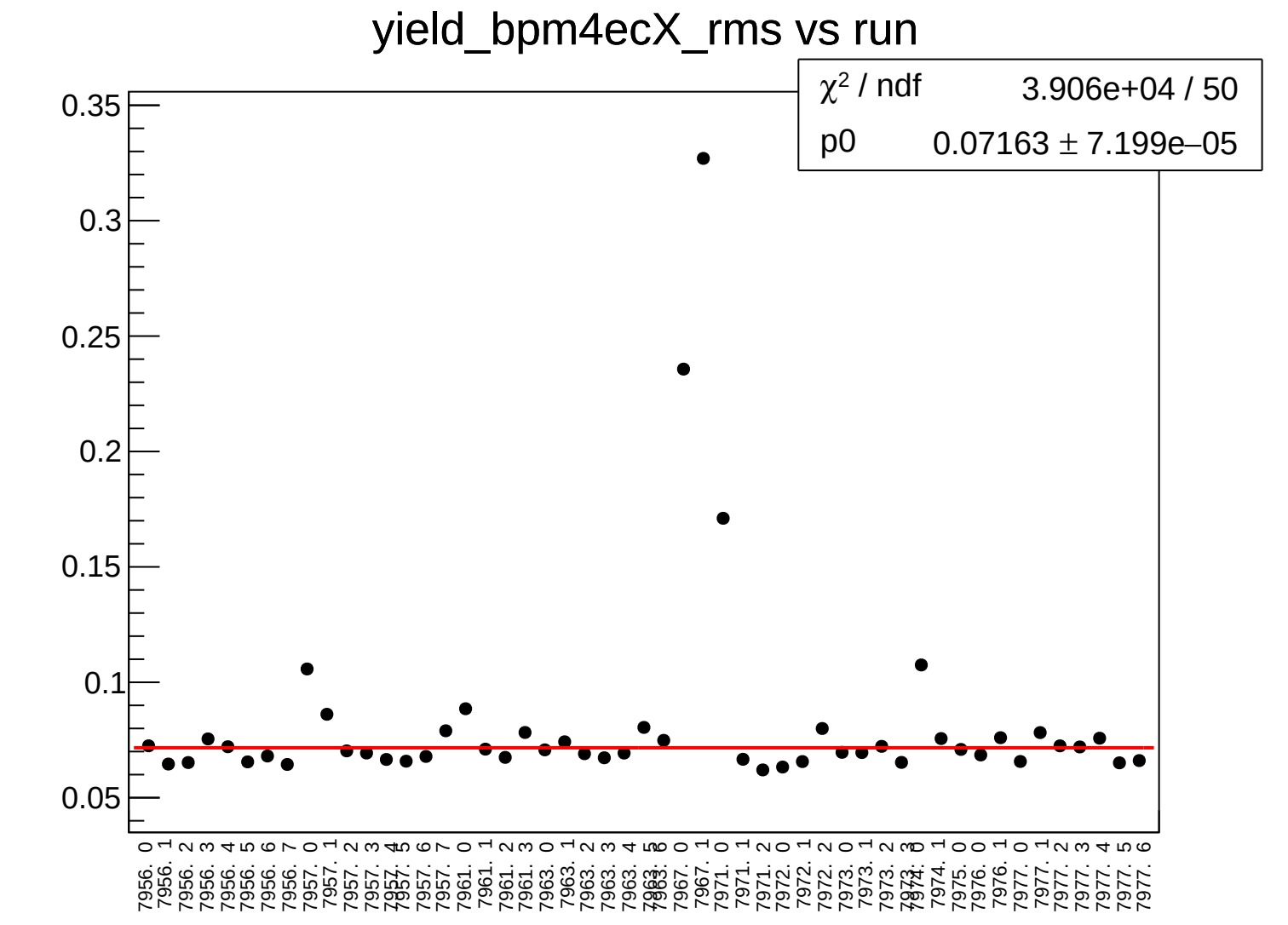
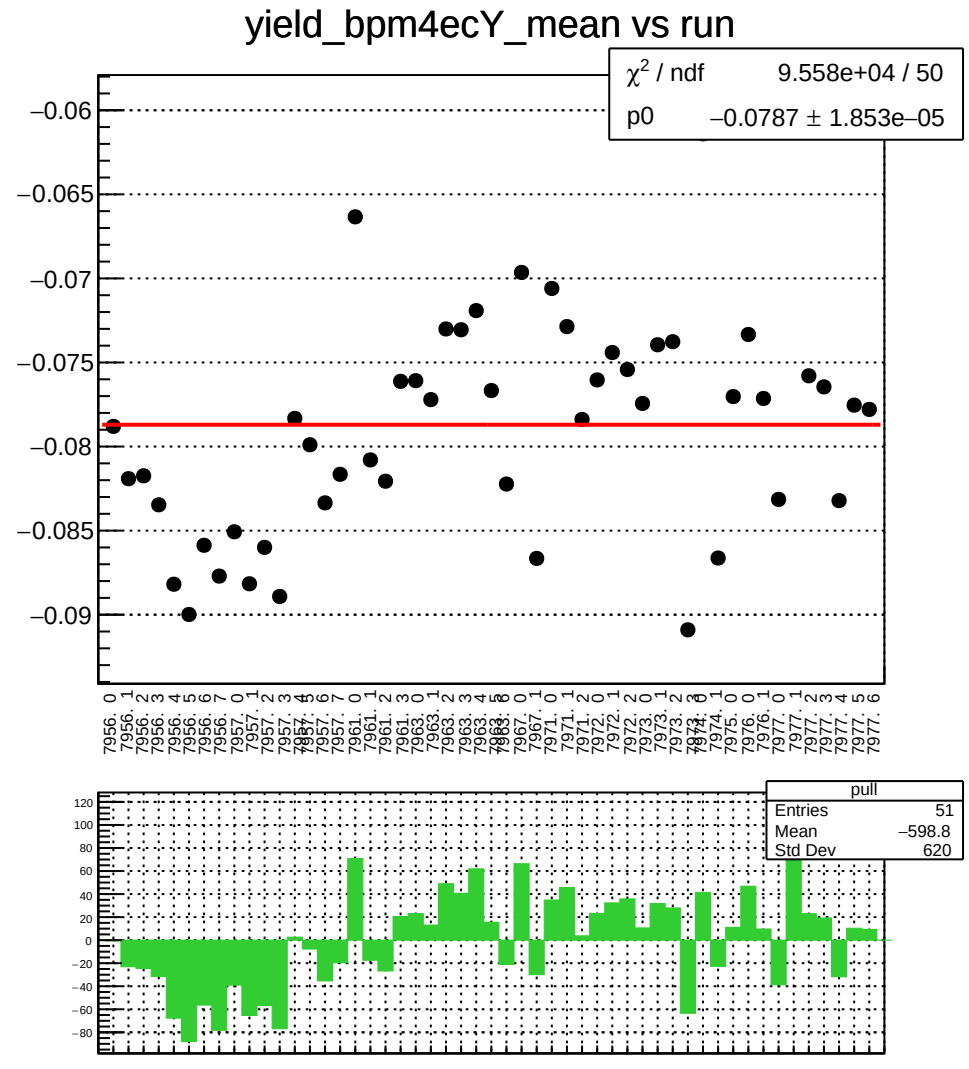
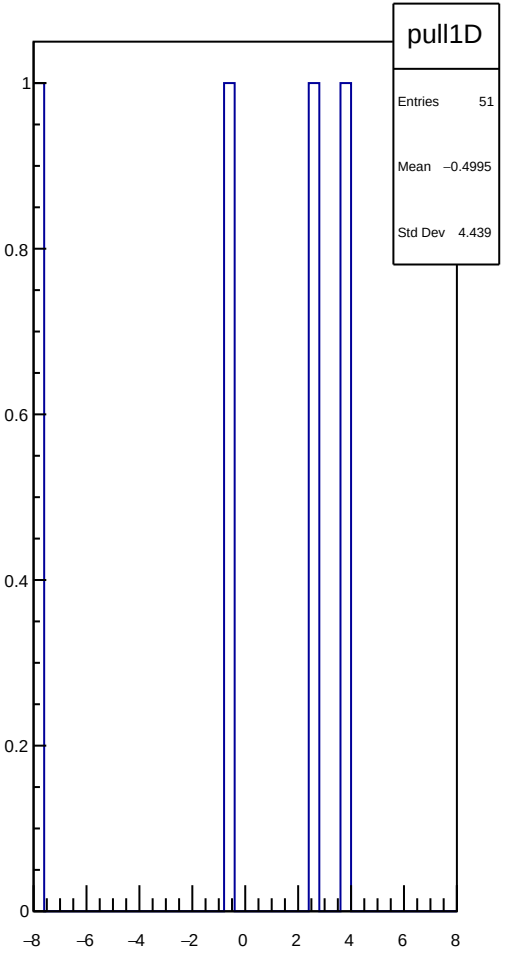
7977. 5
7977. 6

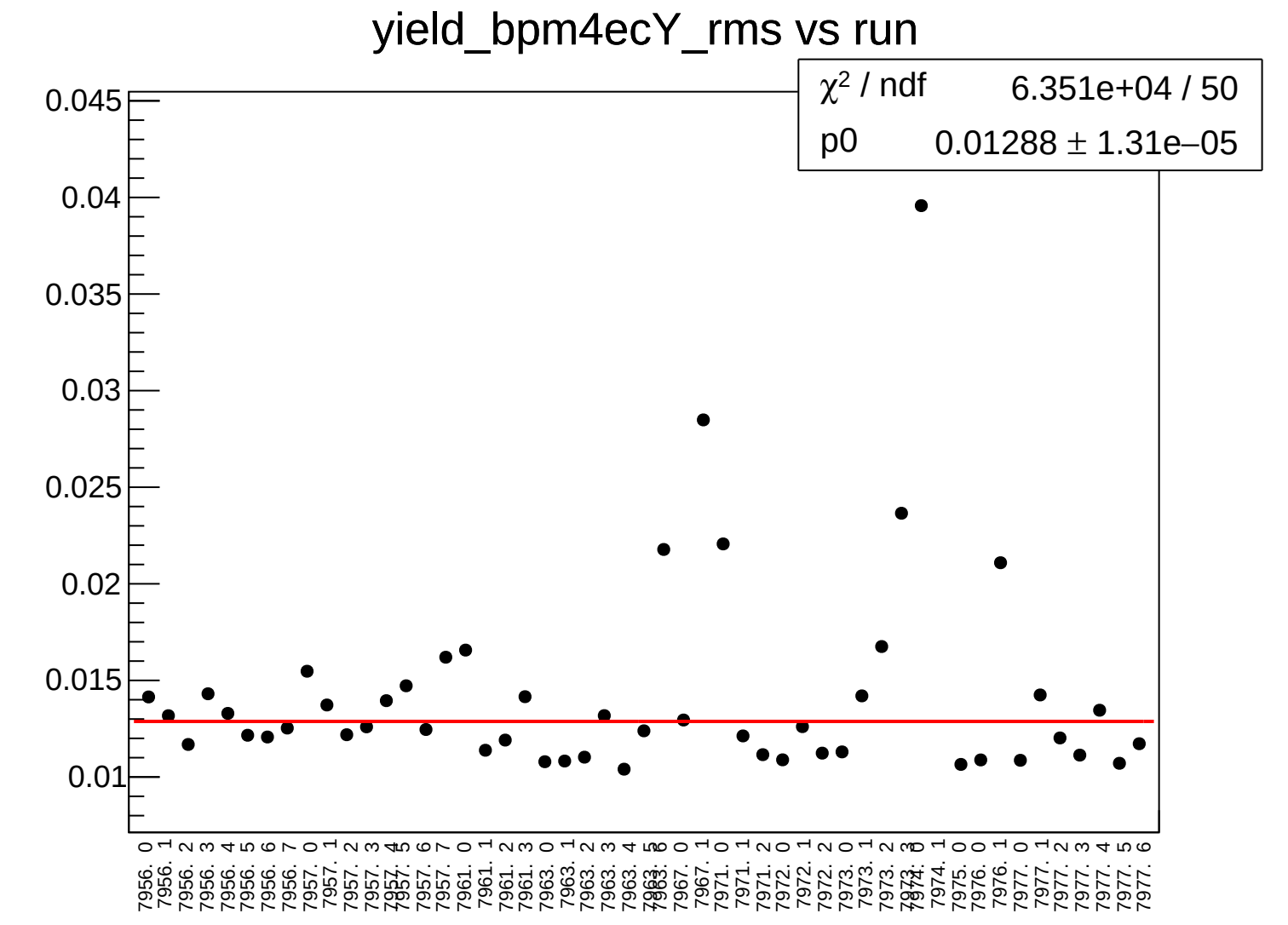

yield_bpm4ecX_mean vs run
χ² / ndf 5.186e+04 / 50
p0 −0.1512 ± 0.0001018
pull
Entries 51
Mean −9.308
Std Dev 147.7

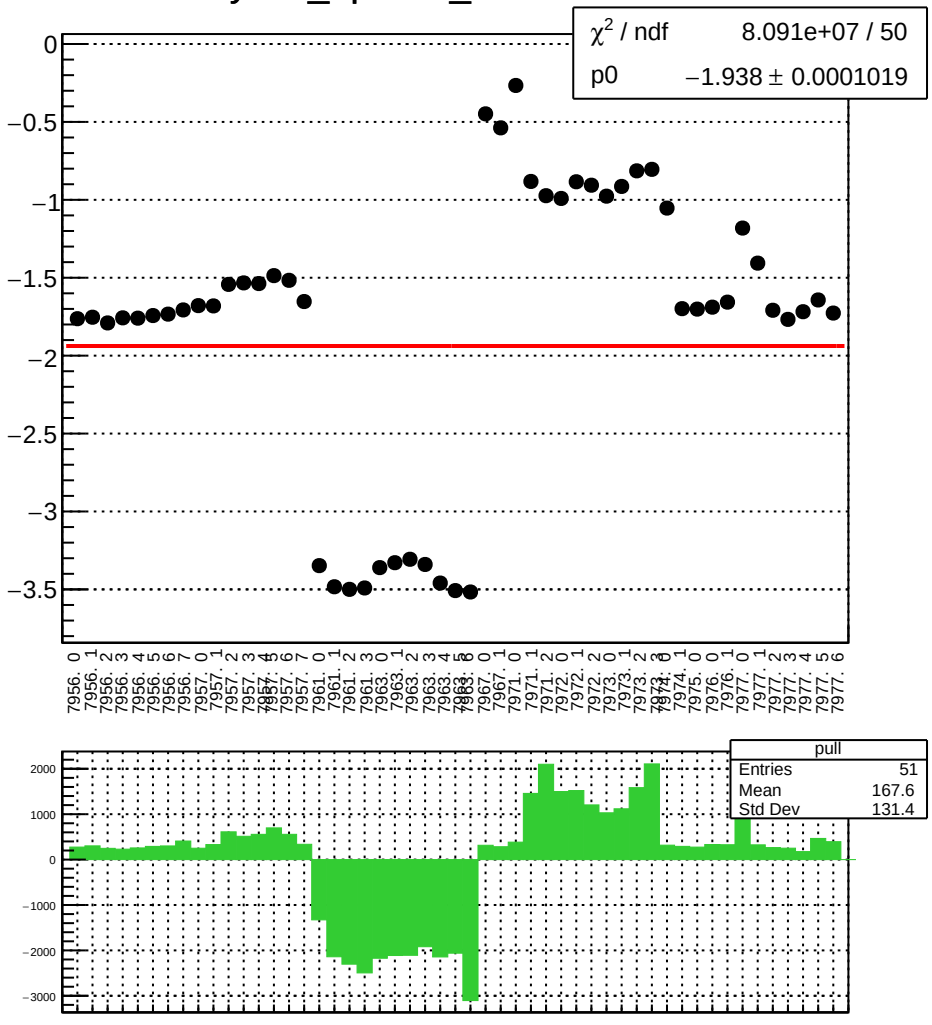

pull1D
Entries 51
Mean 0.1944
Std Dev 3.955

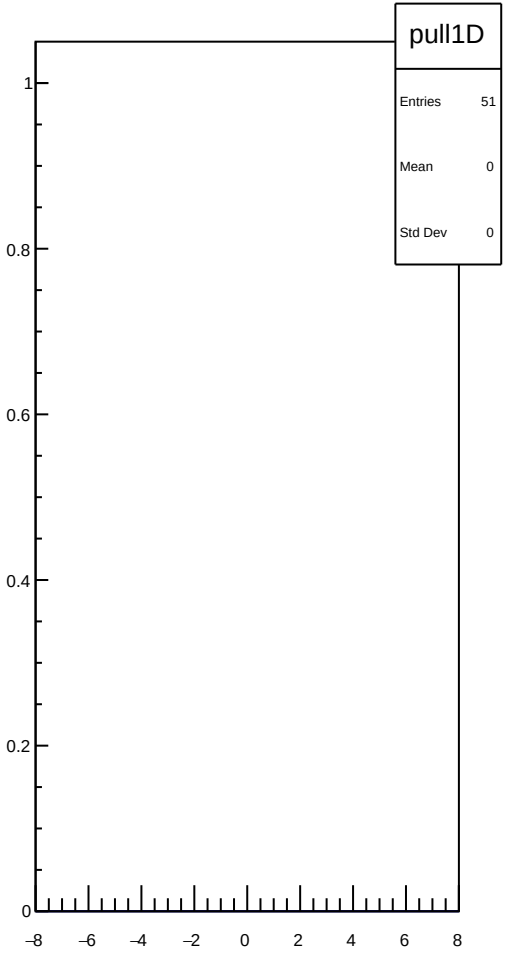

yield_bpm4ecX_rms vs run
χ² / ndf 3.906e+04 / 50
p0 0.07163 ± 7.199e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

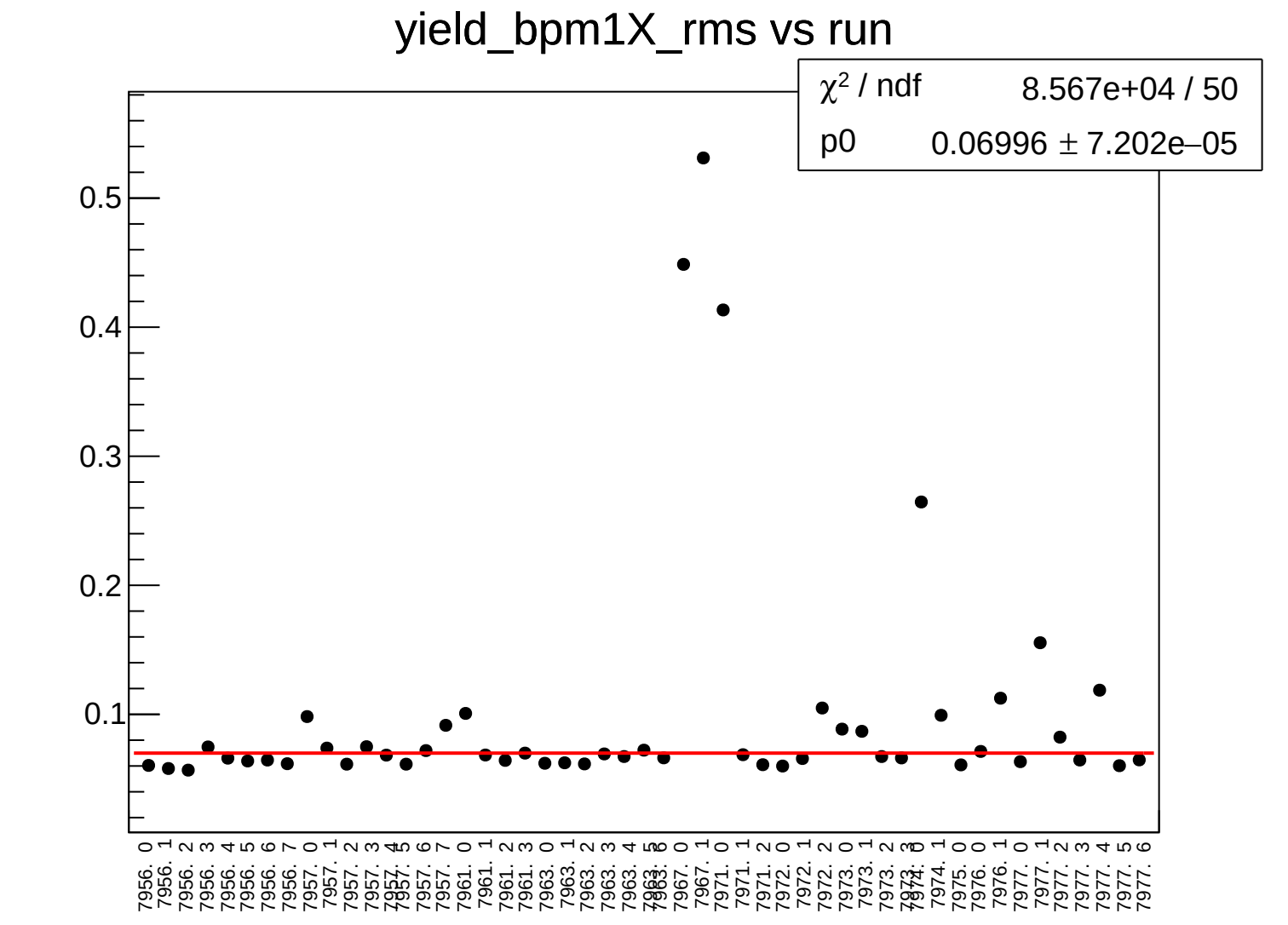

yield_bpm4ecY_mean vs run
χ² / ndf 9.558e+04 / 50
p0 −0.0787 ± 1.853e−05
−0.06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
pull
Entries 51
Mean −598.8
Std Dev 620
120
100
80
60
40
20
0
−20
−40
−60
−80

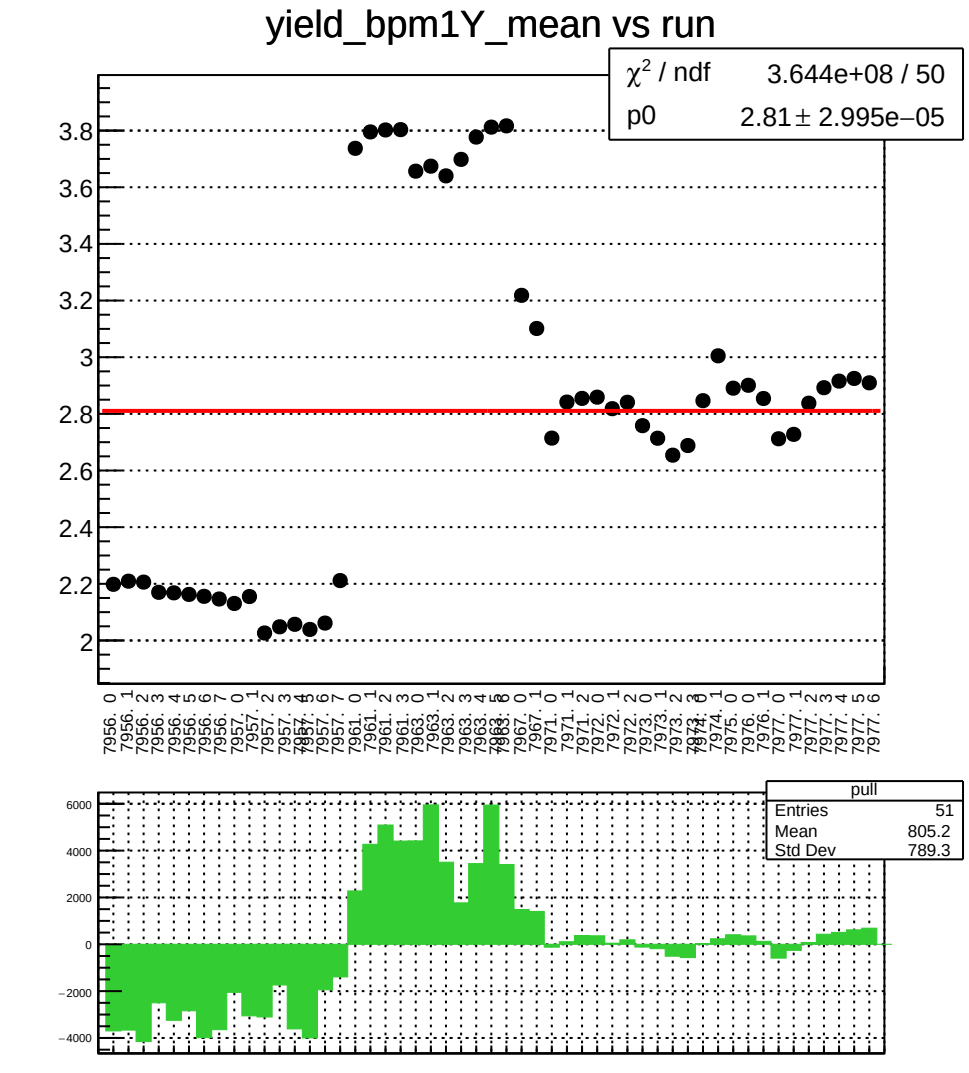

pull1D
Entries 51
Mean −0.4995
Std Dev 4.439
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

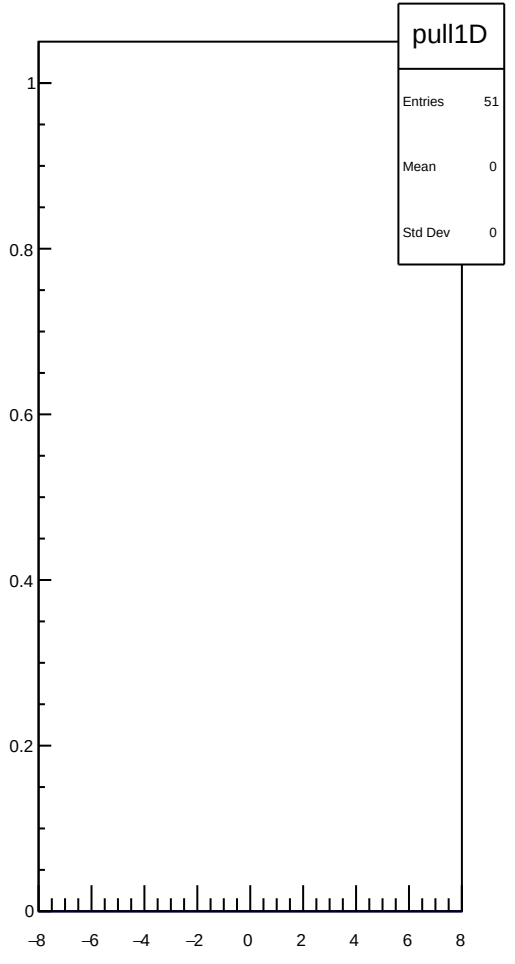

yield_bpm4ecY_rms vs run
χ² / ndf 6.351e+04 / 50
p0 0.01288 ± 1.31e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

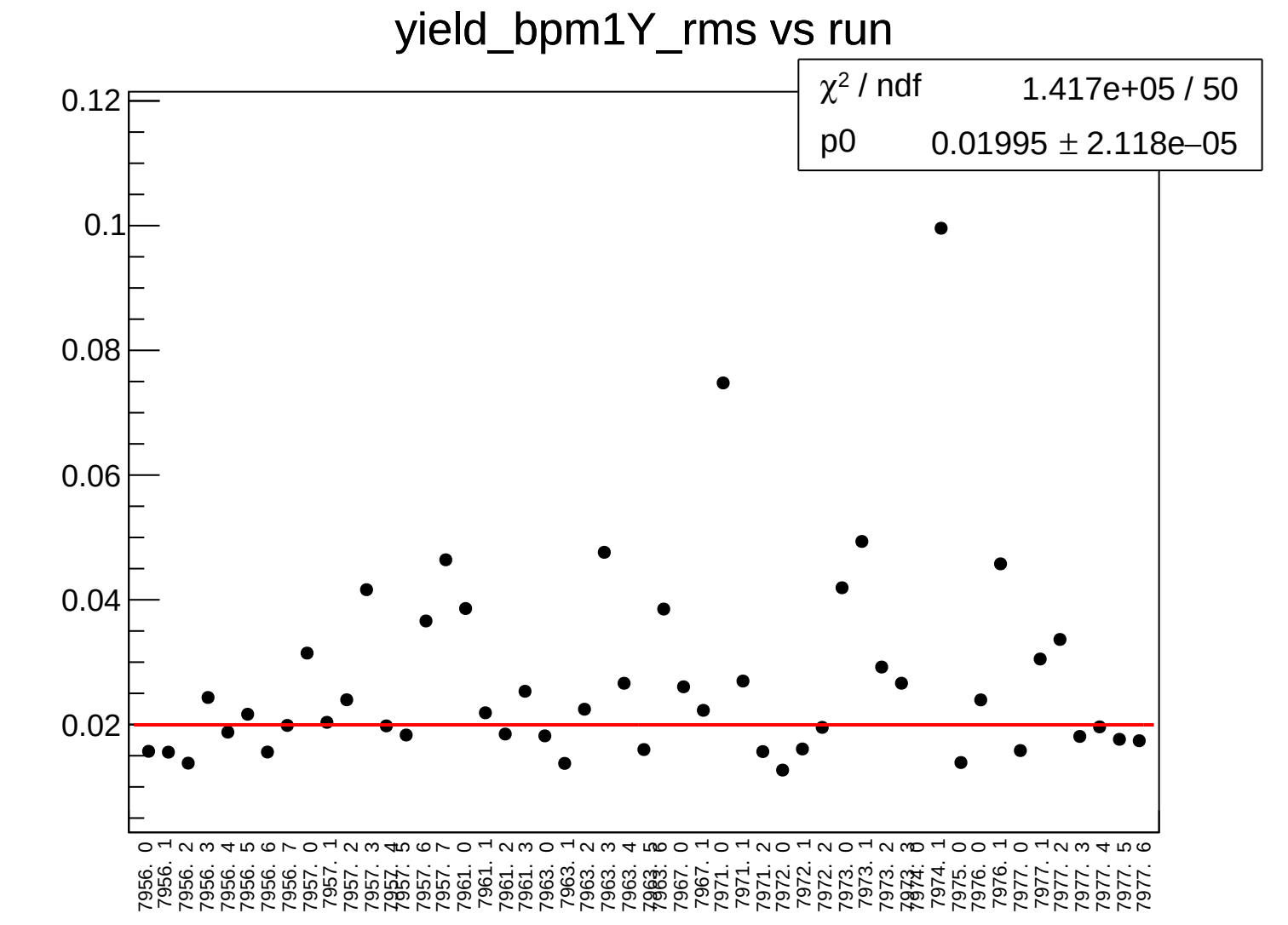

yield_bpm1X_mean vs run
χ² / ndf 8.091e+07 / 50
p0 −1.938 ± 0.0001019
pull
Entries 51
Mean 167.6
Std Dev 131.4

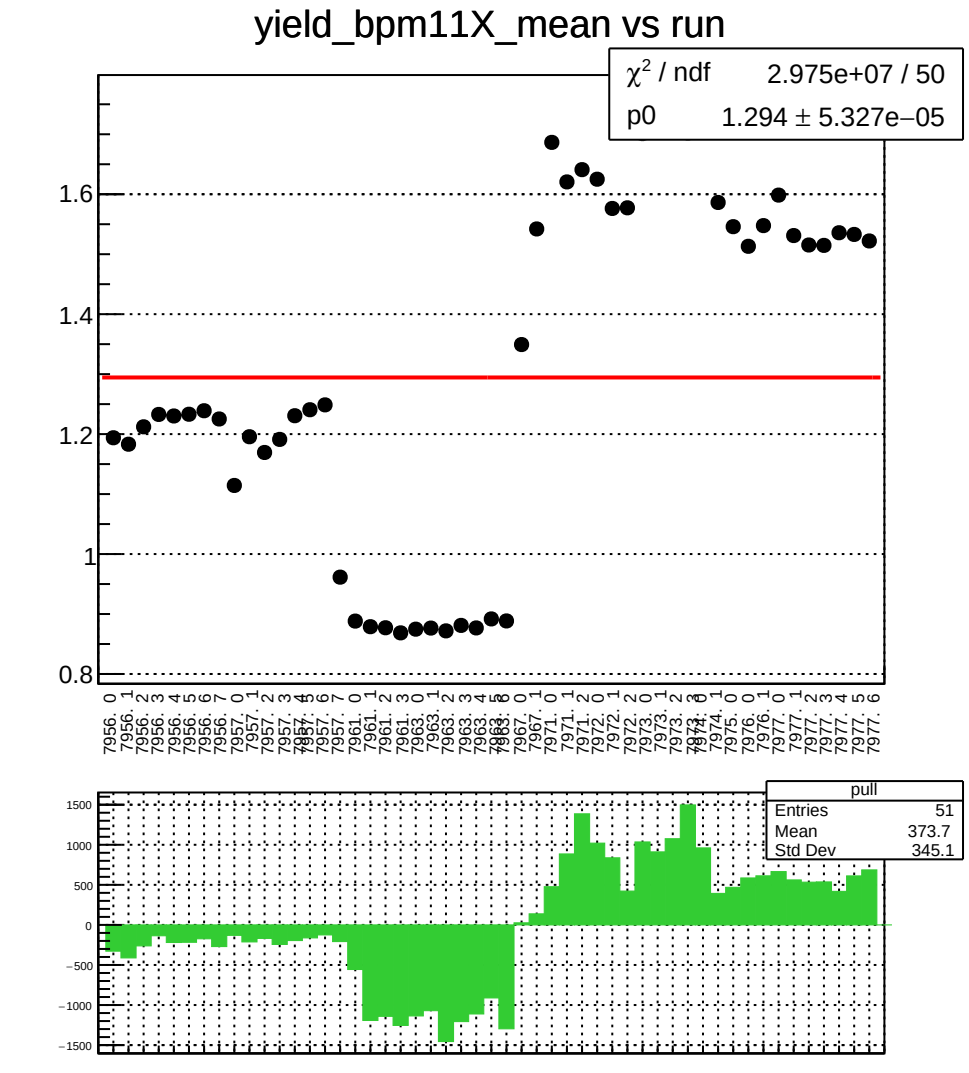

pull1D
Entries 51
Mean 0
Std Dev 0

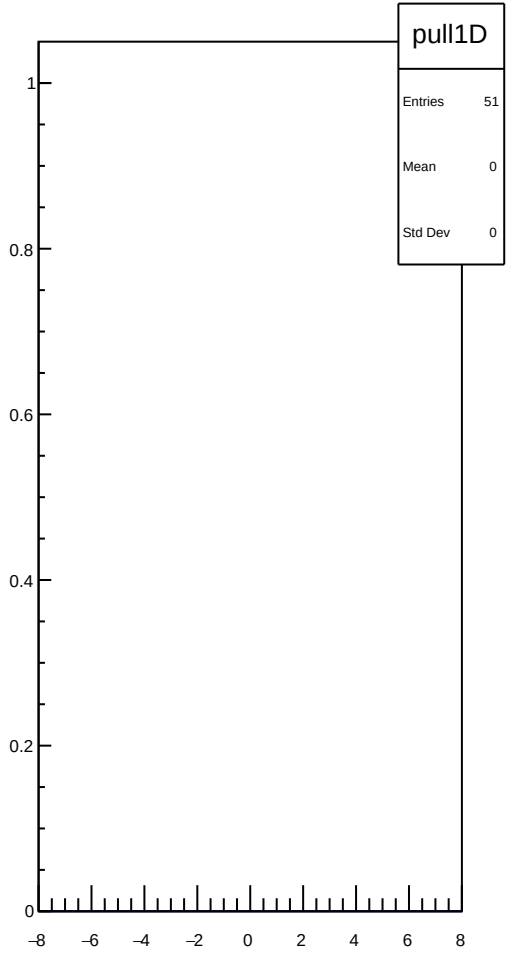

yield_bpm1X_rms vs run
χ² / ndf 8.567e+04 / 50
p0 0.06996 ± 7.202e–05
0.5
0.4
0.3
0.2
0.1
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

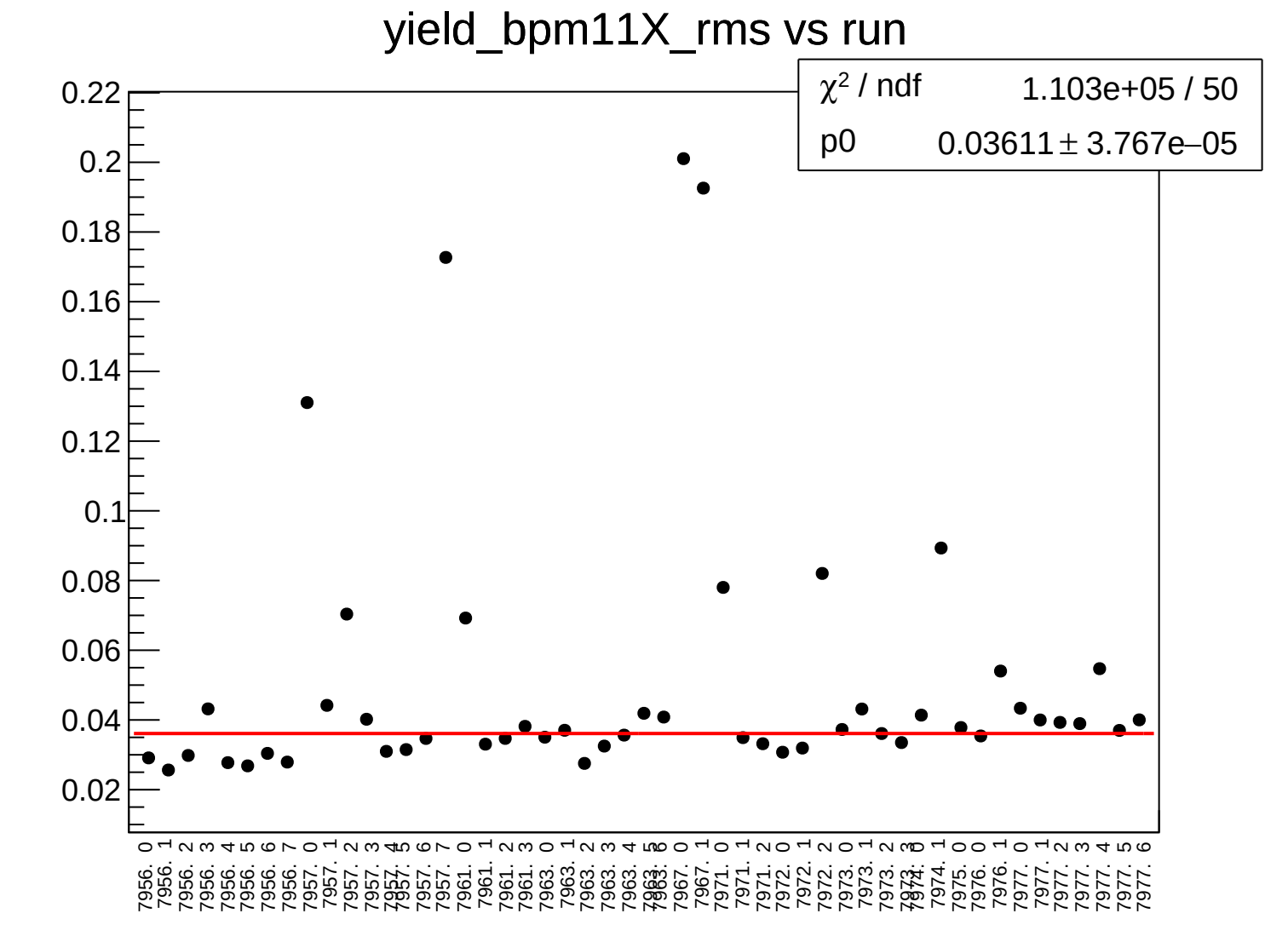

yield_bpm1Y_mean vs run
χ² / ndf 3.644e+08 / 50
p0 2.81 ± 2.995e−05
pull
Entries 51
Mean 805.2
Std Dev 789.3


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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
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
7975. 0
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7976. 1
7977. 0
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7977. 3
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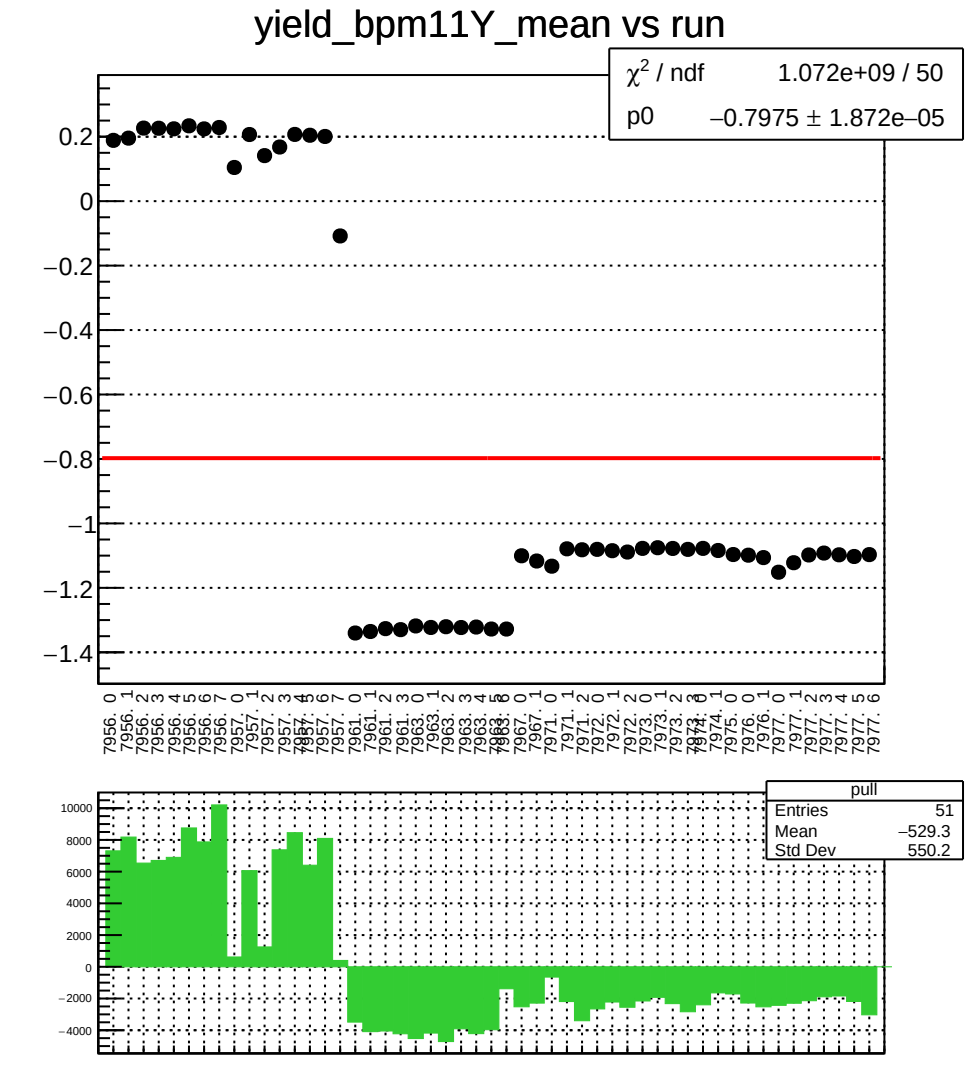
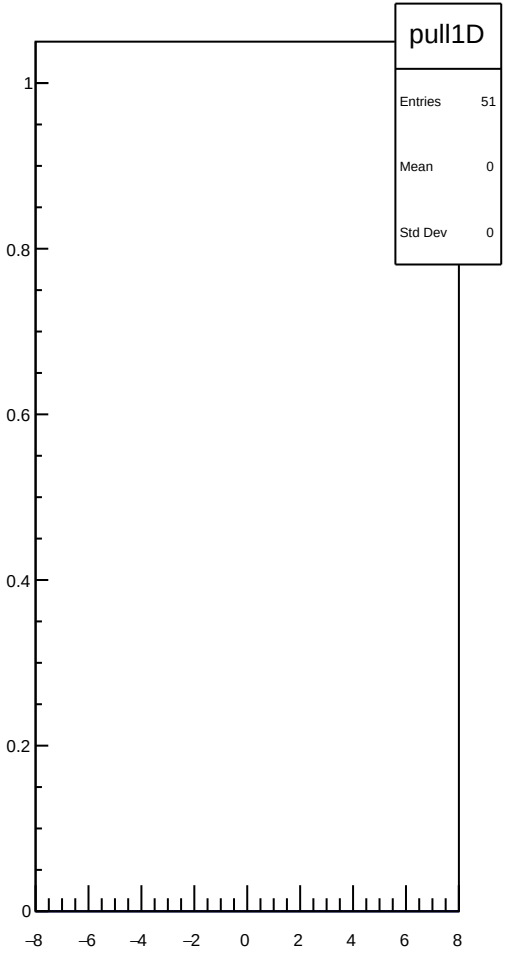
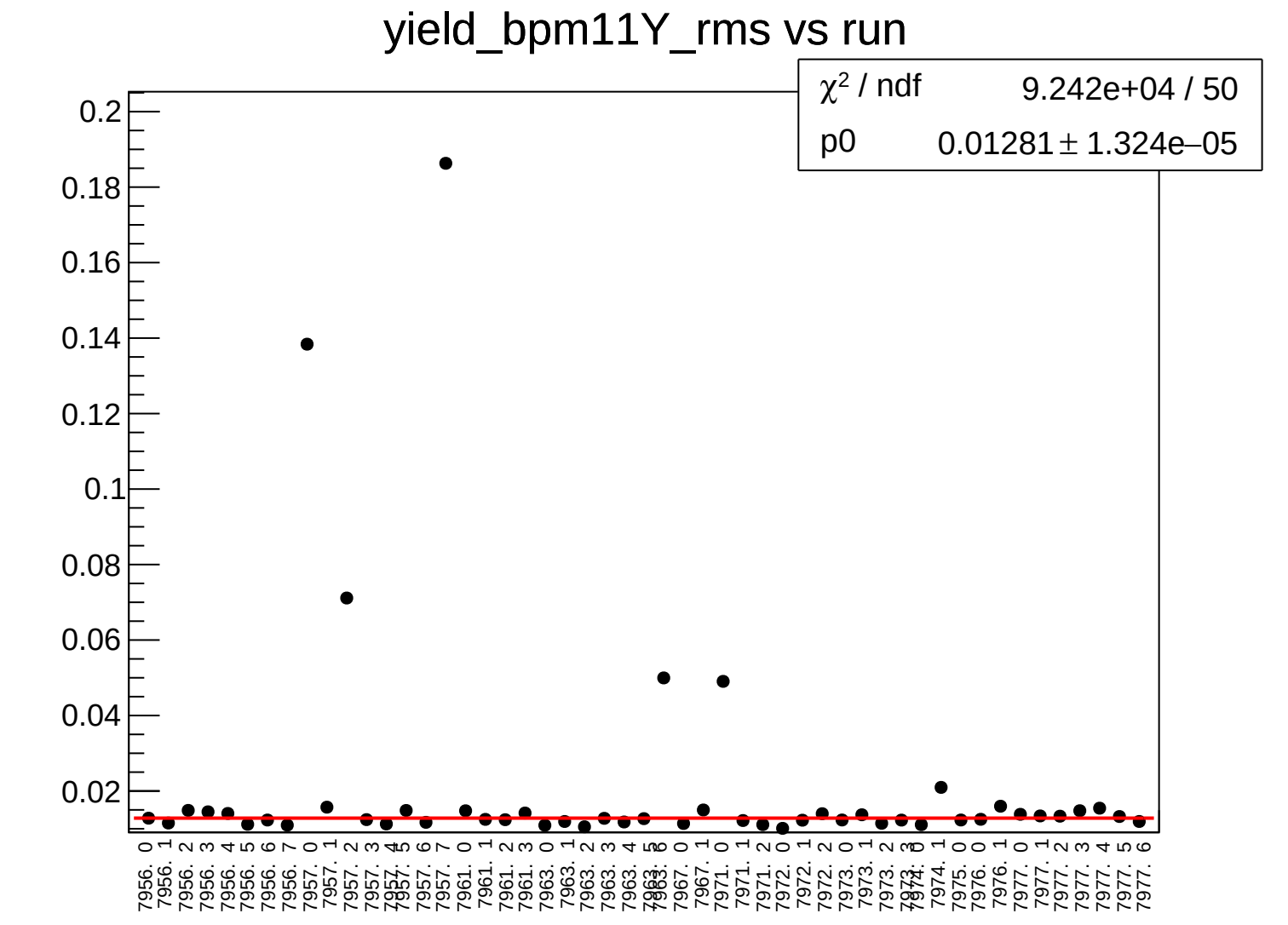
7977. 5
7977. 6


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
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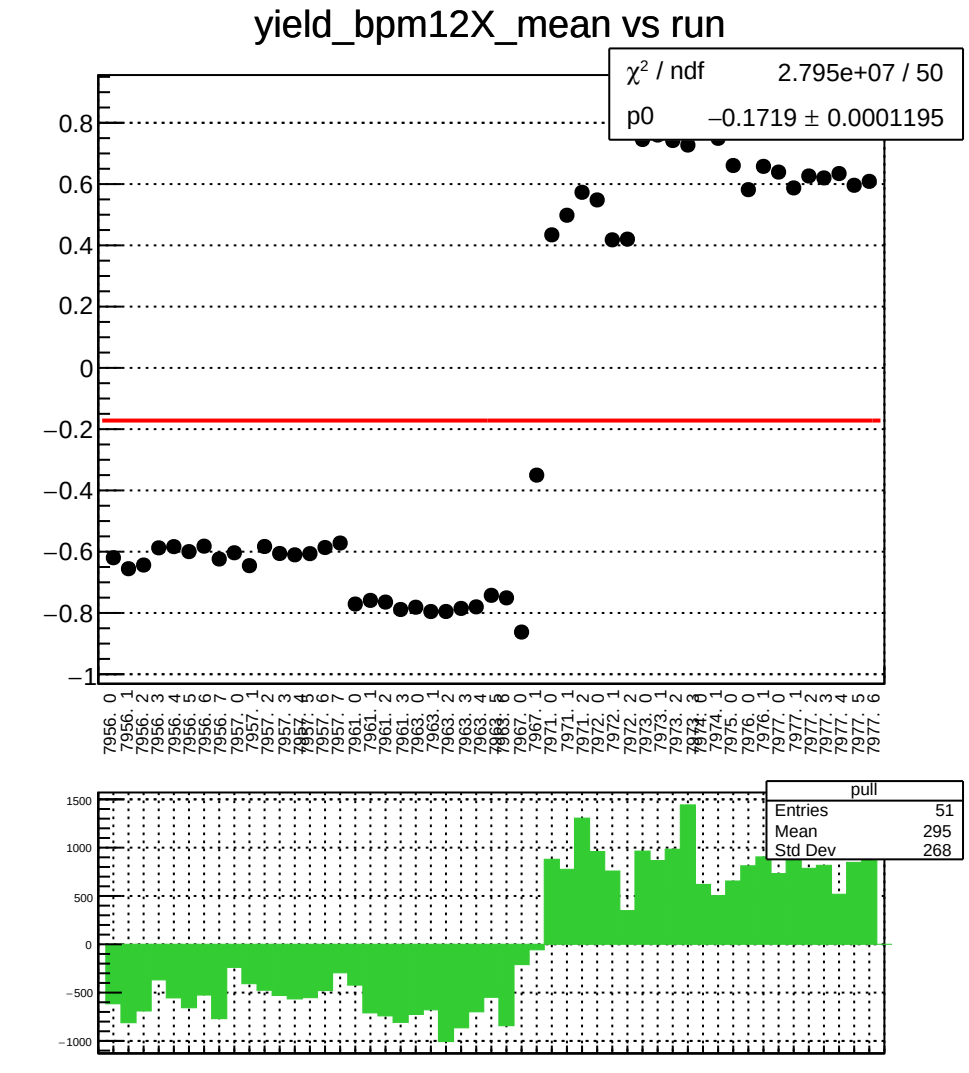
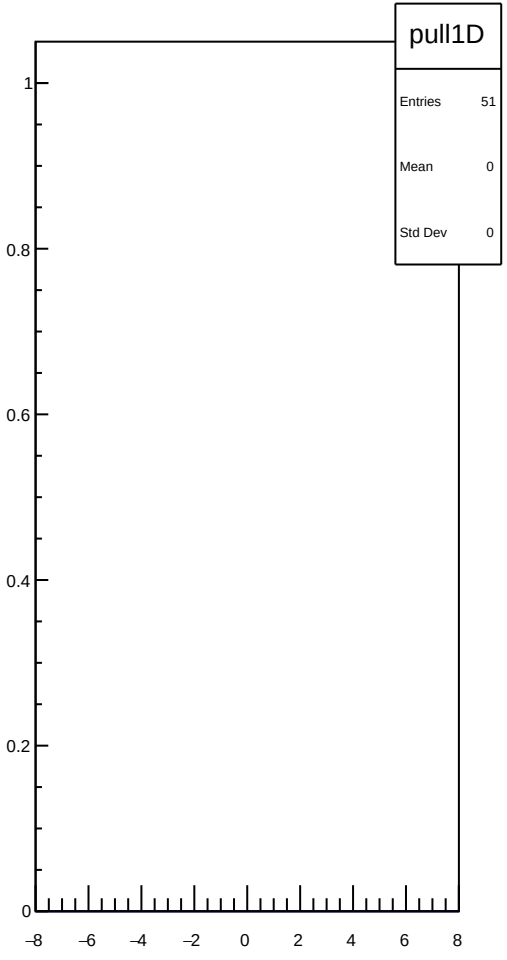
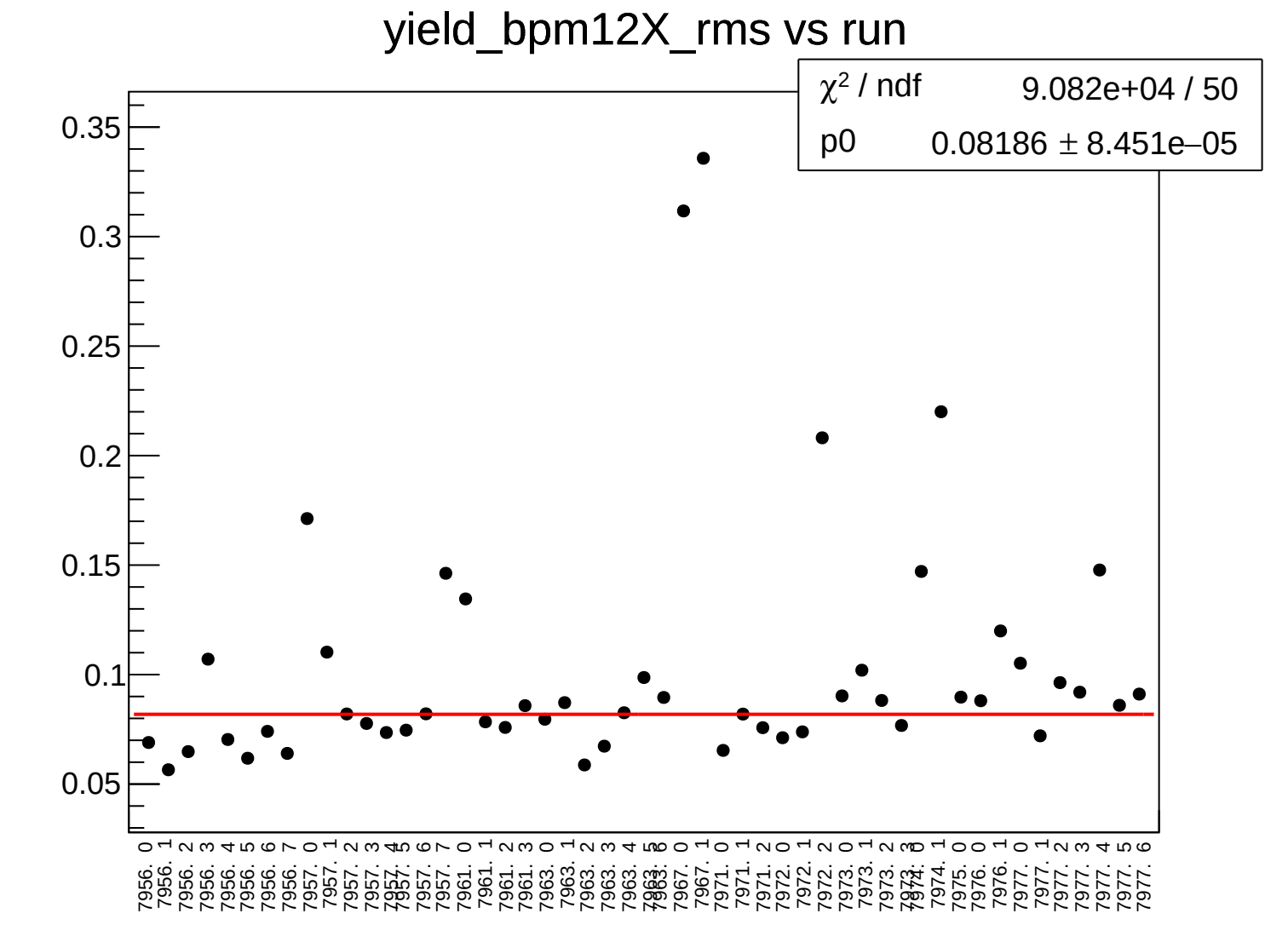
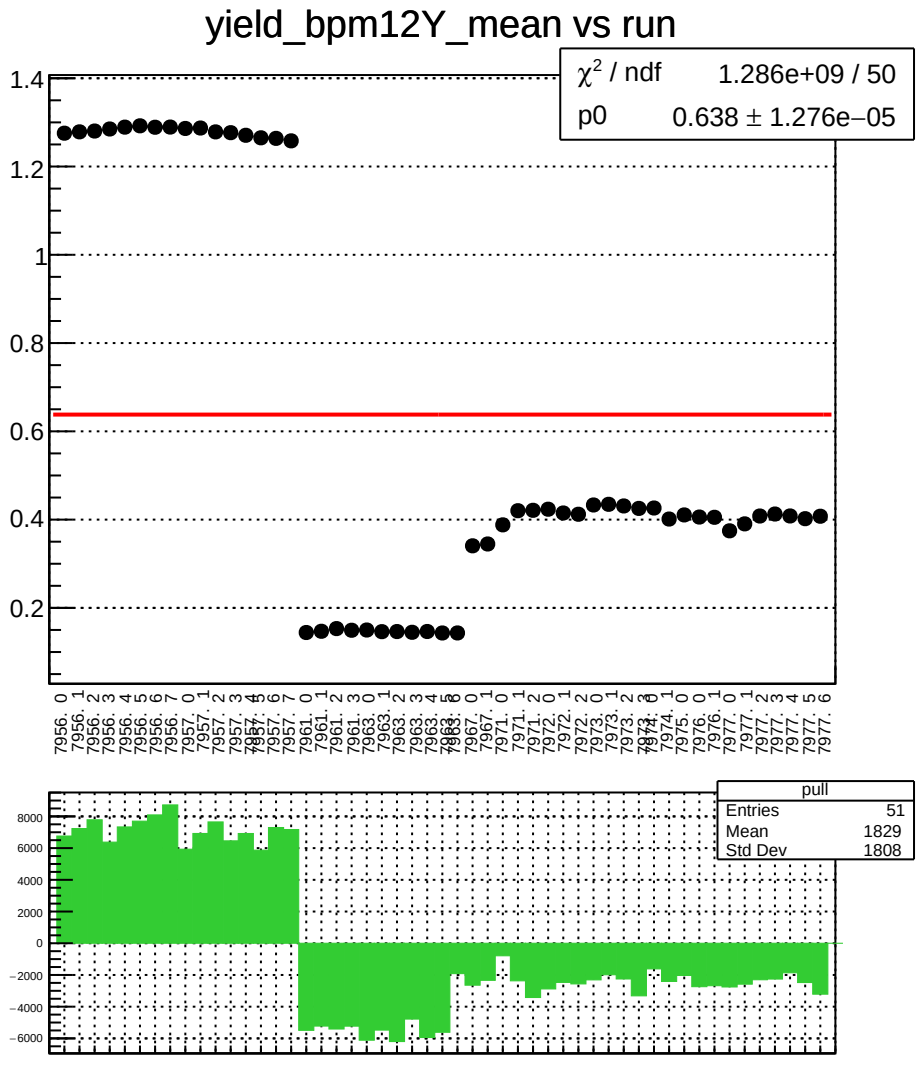
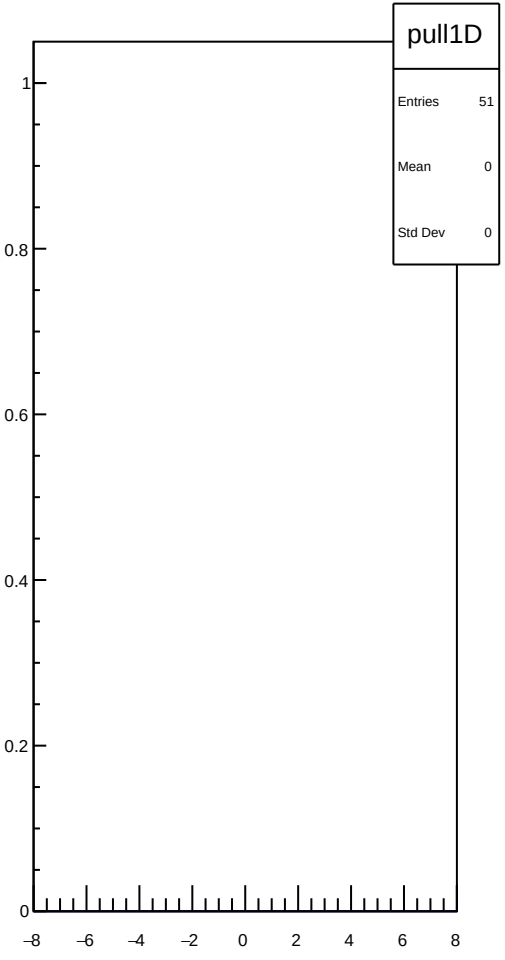
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

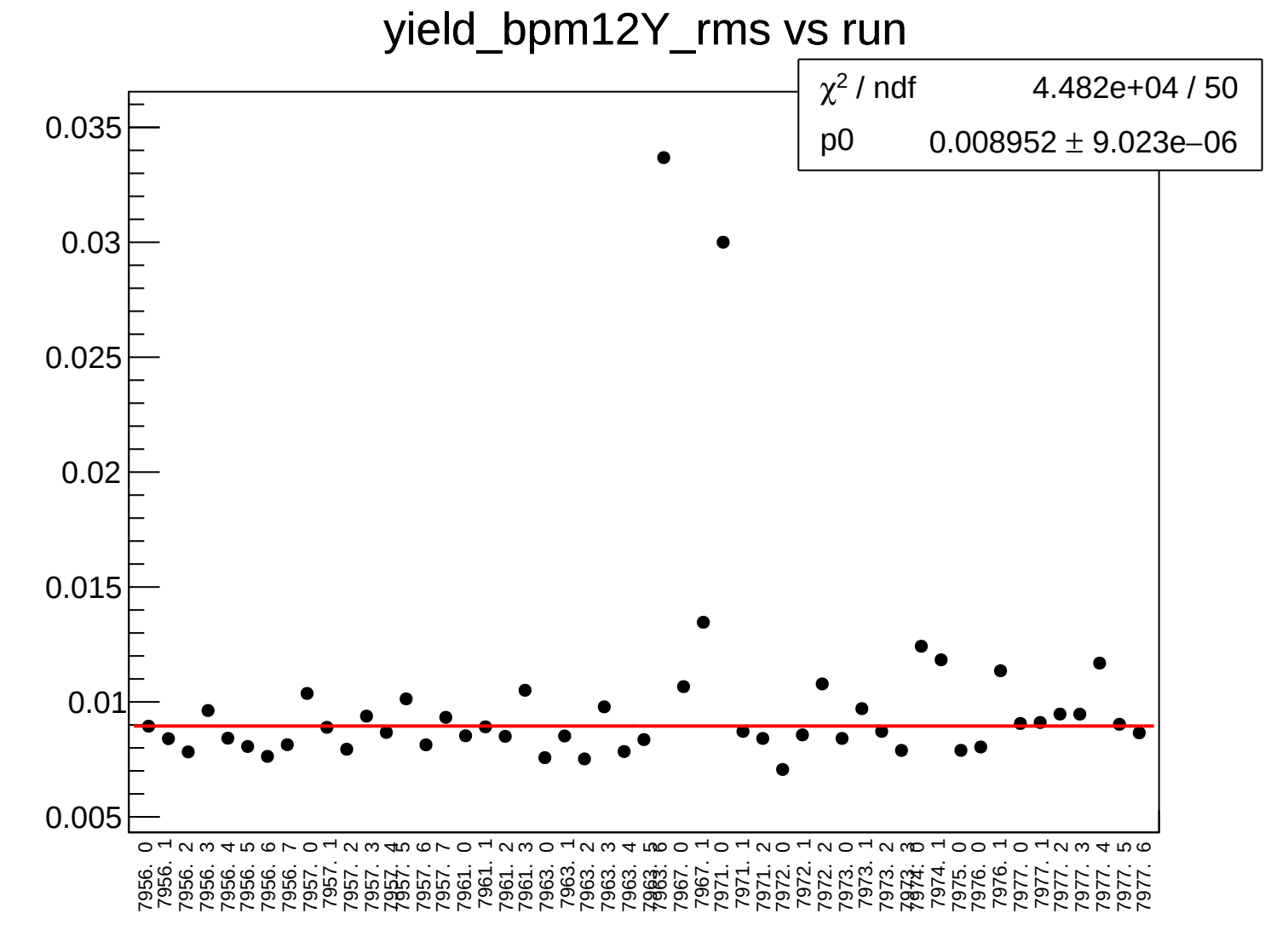

yield_bpm12X_mean vs run
χ² / ndf 2.795e+07 / 50
p0 −0.1719 ± 0.0001195
pull
Entries 51
Mean 295
Std Dev 268


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
7977. 4
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
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7976. 1
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7977. 3
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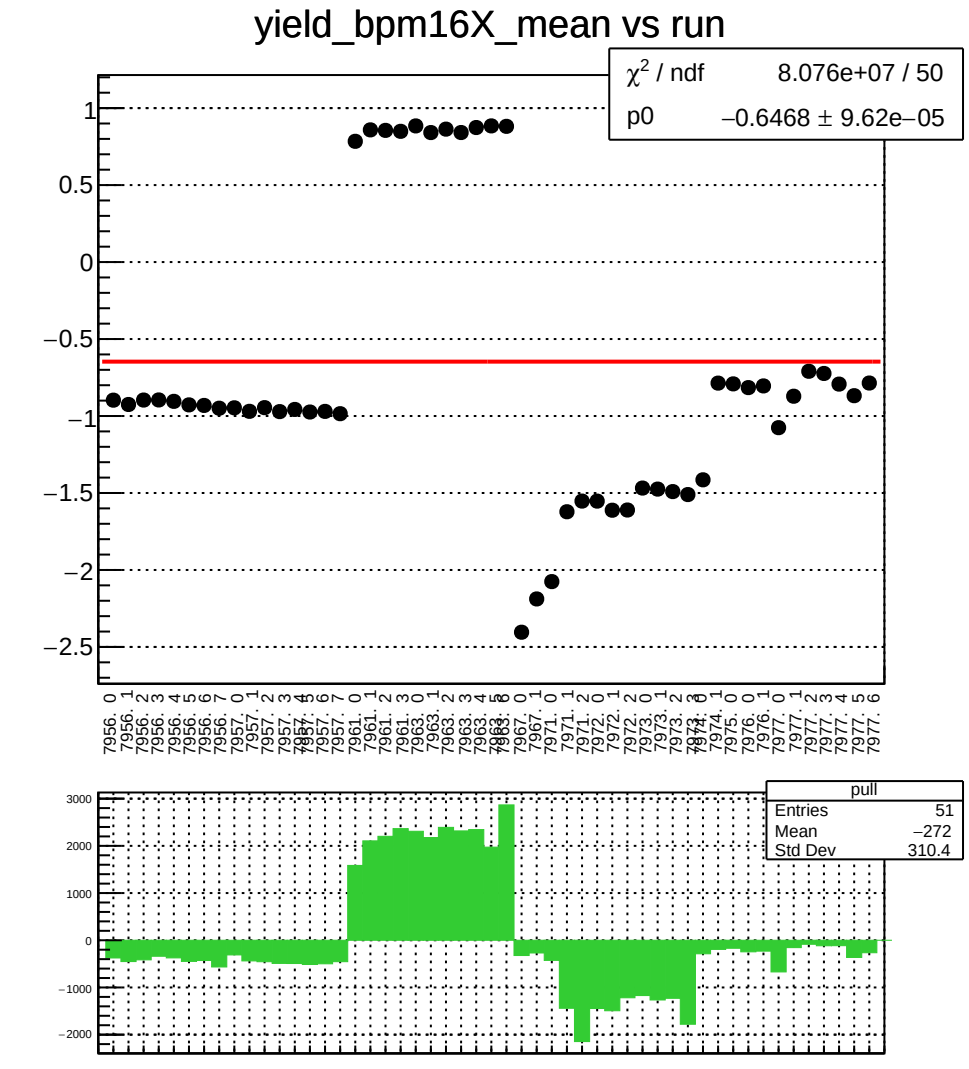
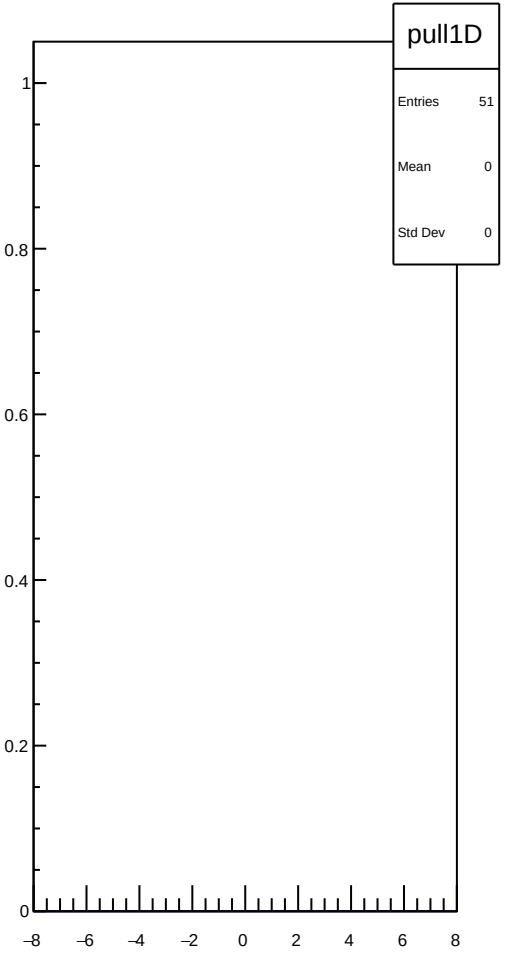
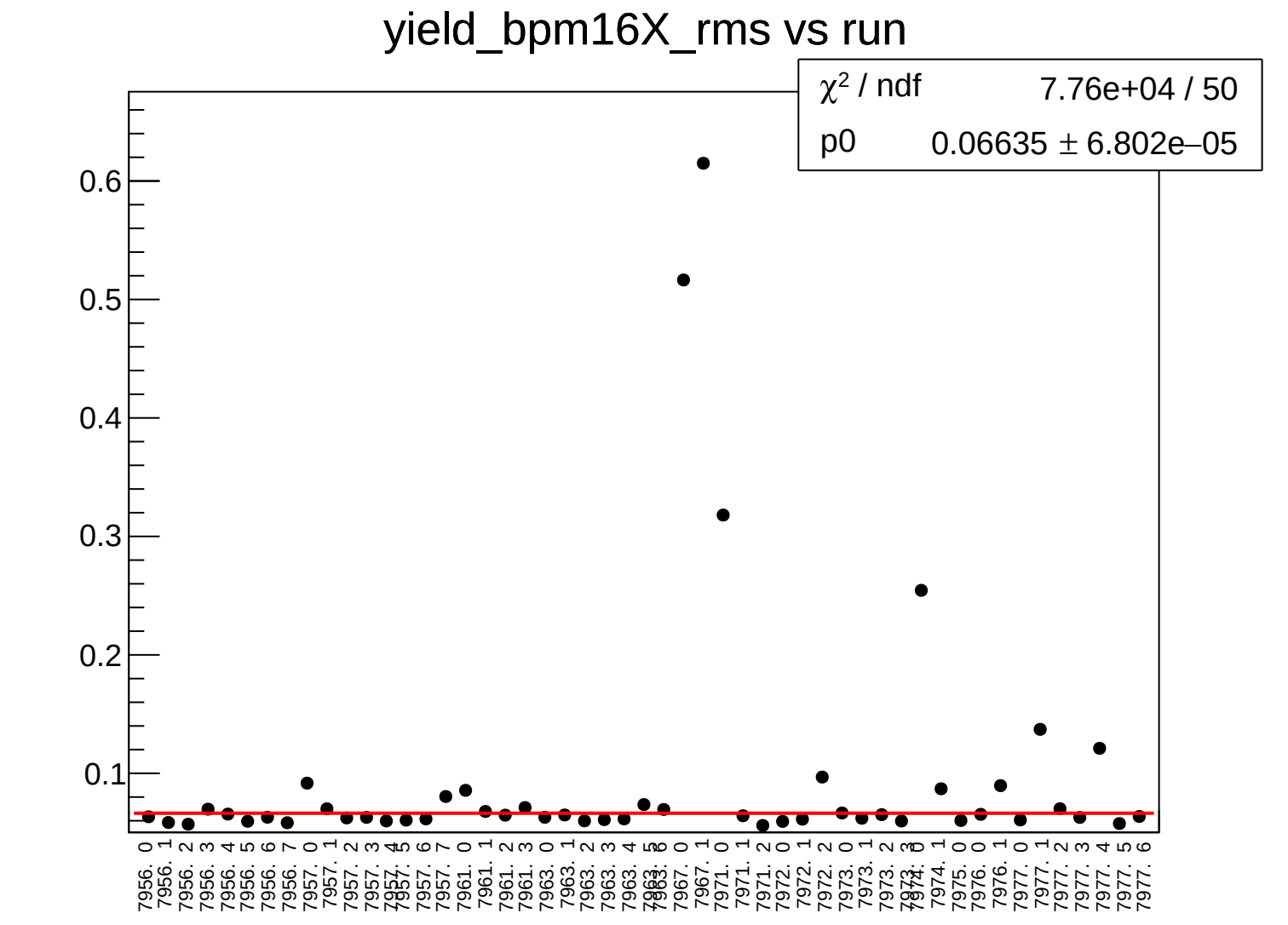
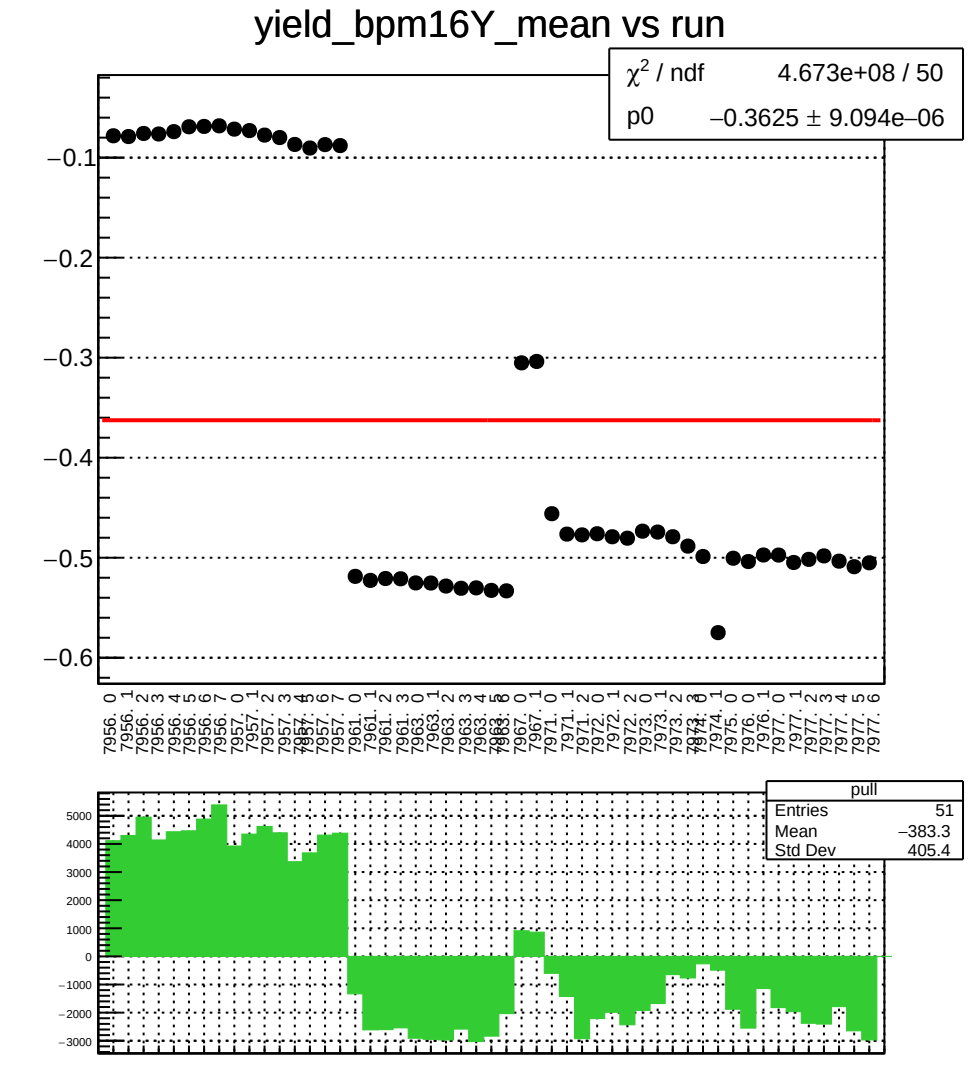
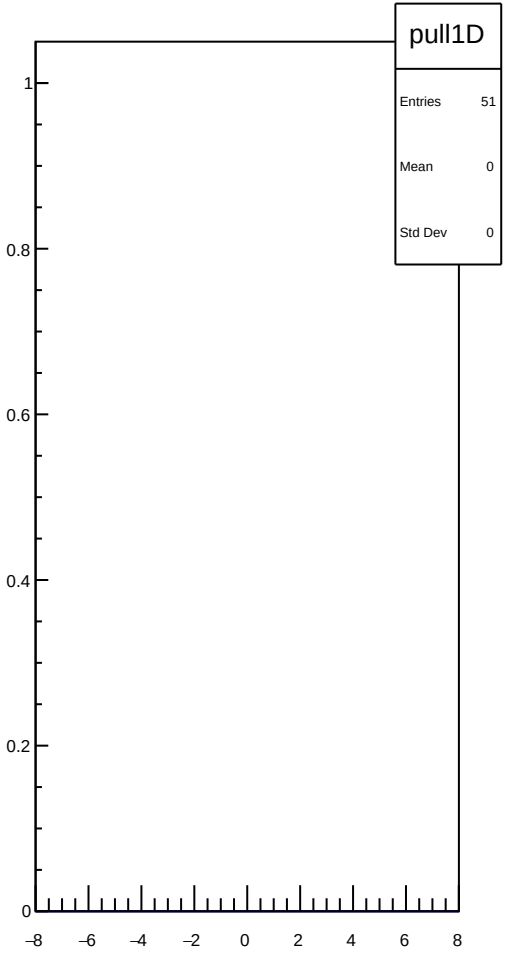
7977. 5
7977. 6

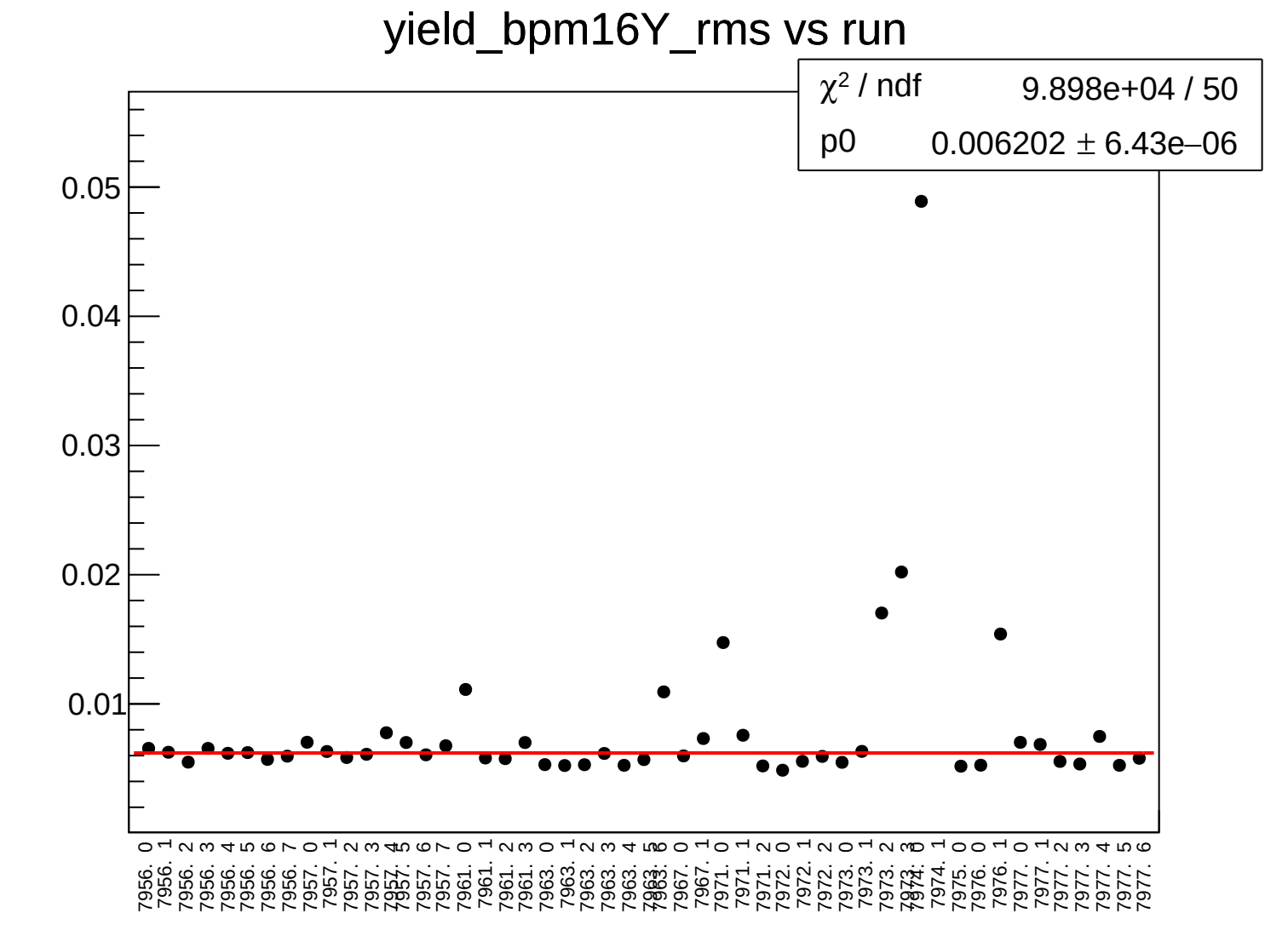

yield_bpm16X_mean vs run
χ² / ndf 8.076e+07 / 50
p0 −0.6468 ± 9.62e−05
pull
Entries 51
Mean −272
Std Dev 310.4

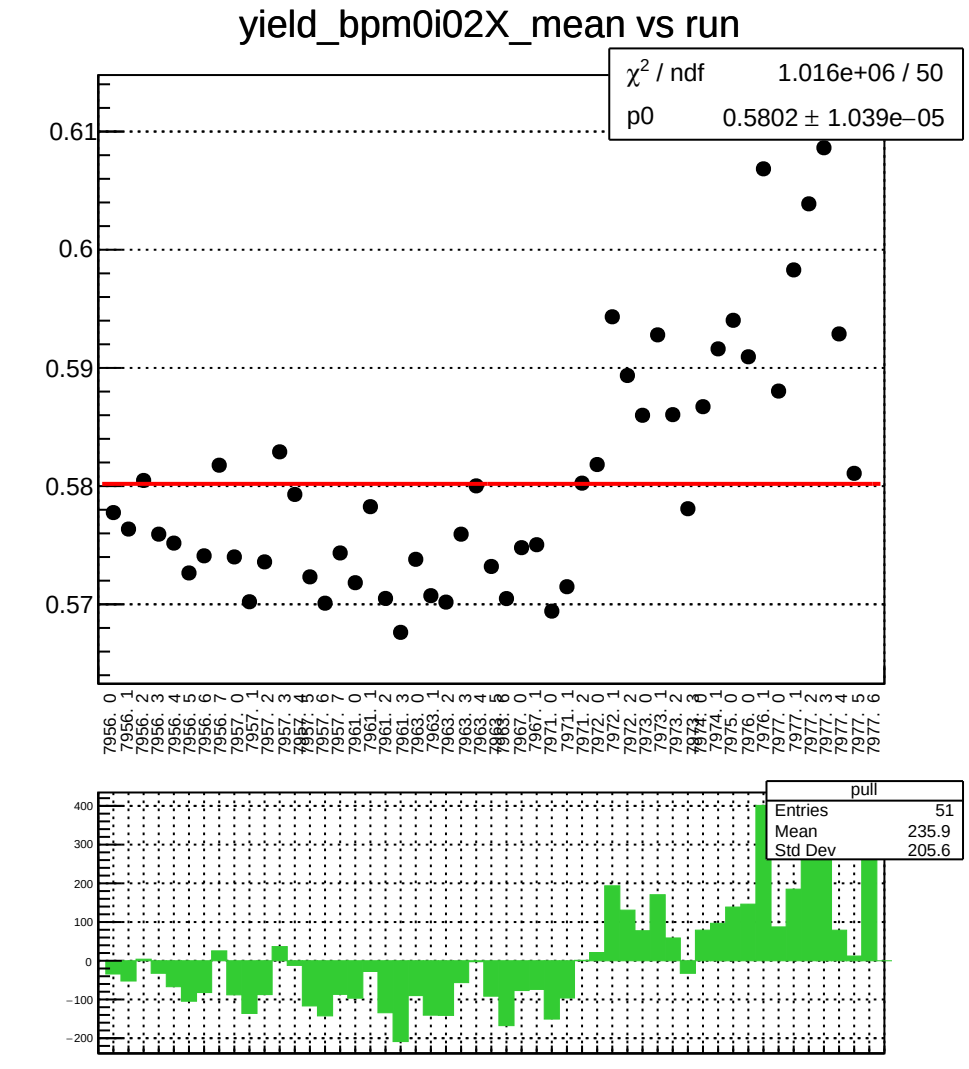

pull1D
Entries 51
Mean 0
Std Dev 0

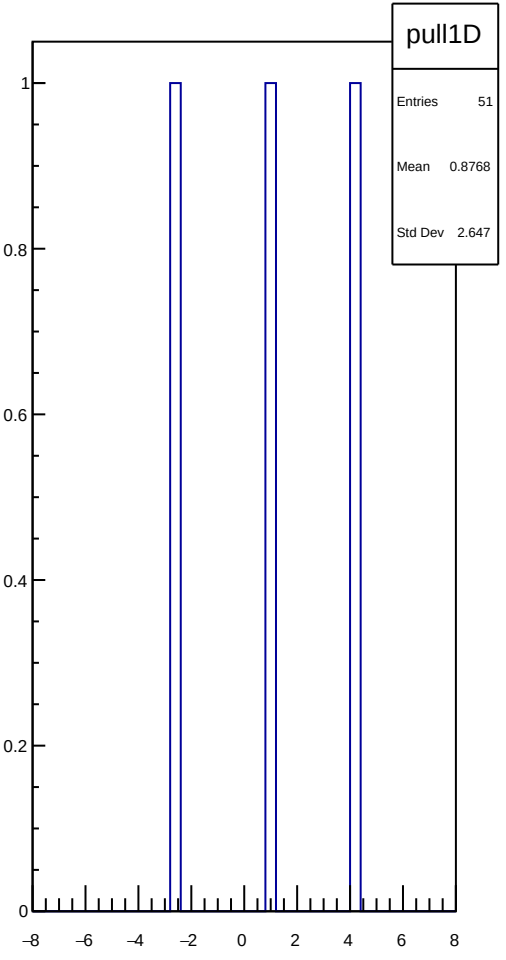

yield_bpm16X_rms vs run
χ² / ndf 7.76e+04 / 50
p0 0.06635 ± 6.802e–05
0.6
0.5
0.4
0.3
0.2
0.1

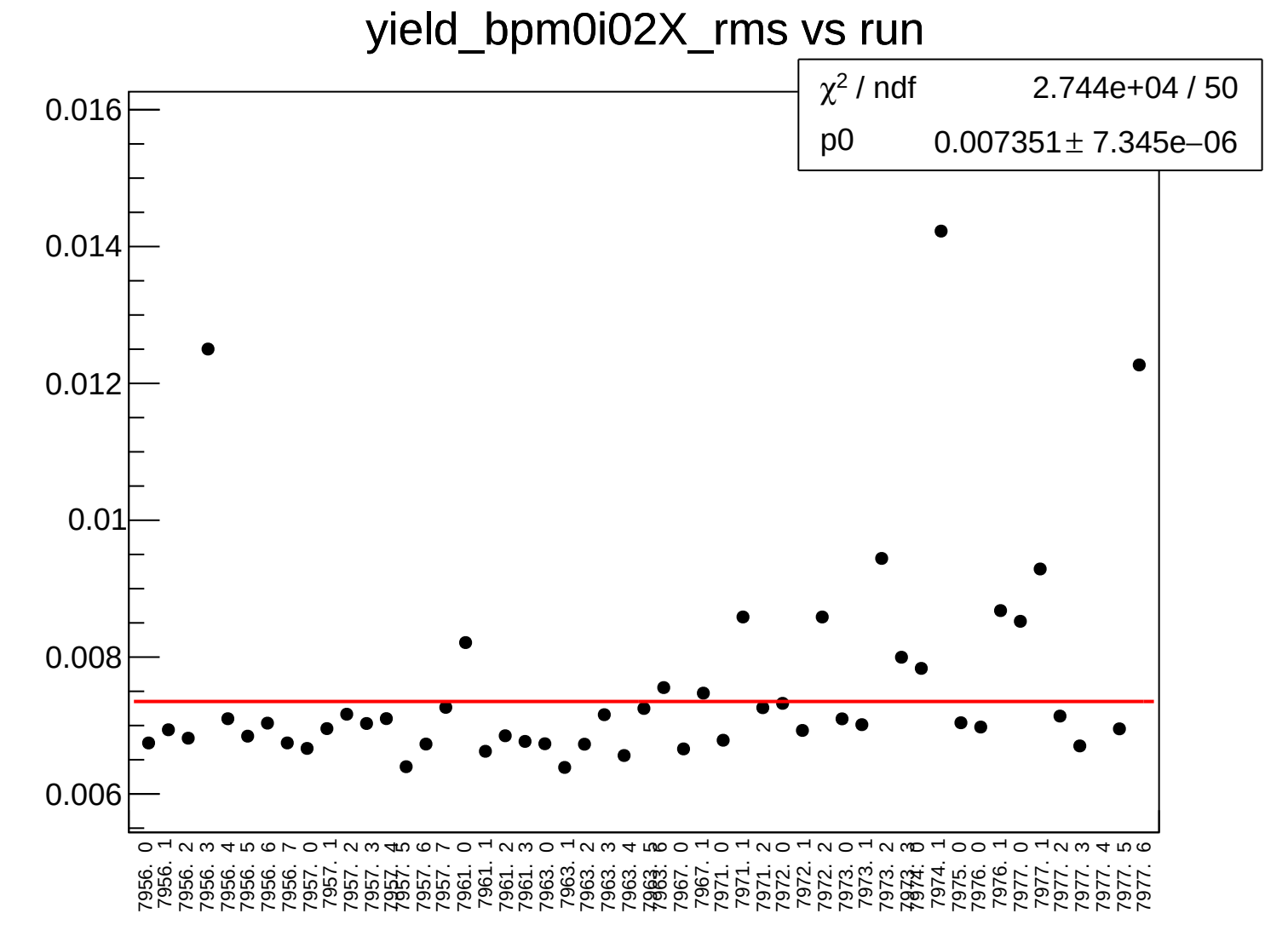

yield_bpm16Y_mean vs run
χ² / ndf 4.673e+08 / 50
p0 −0.3625 ± 9.094e−06
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 51
Mean −383.3
Std Dev 405.4
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

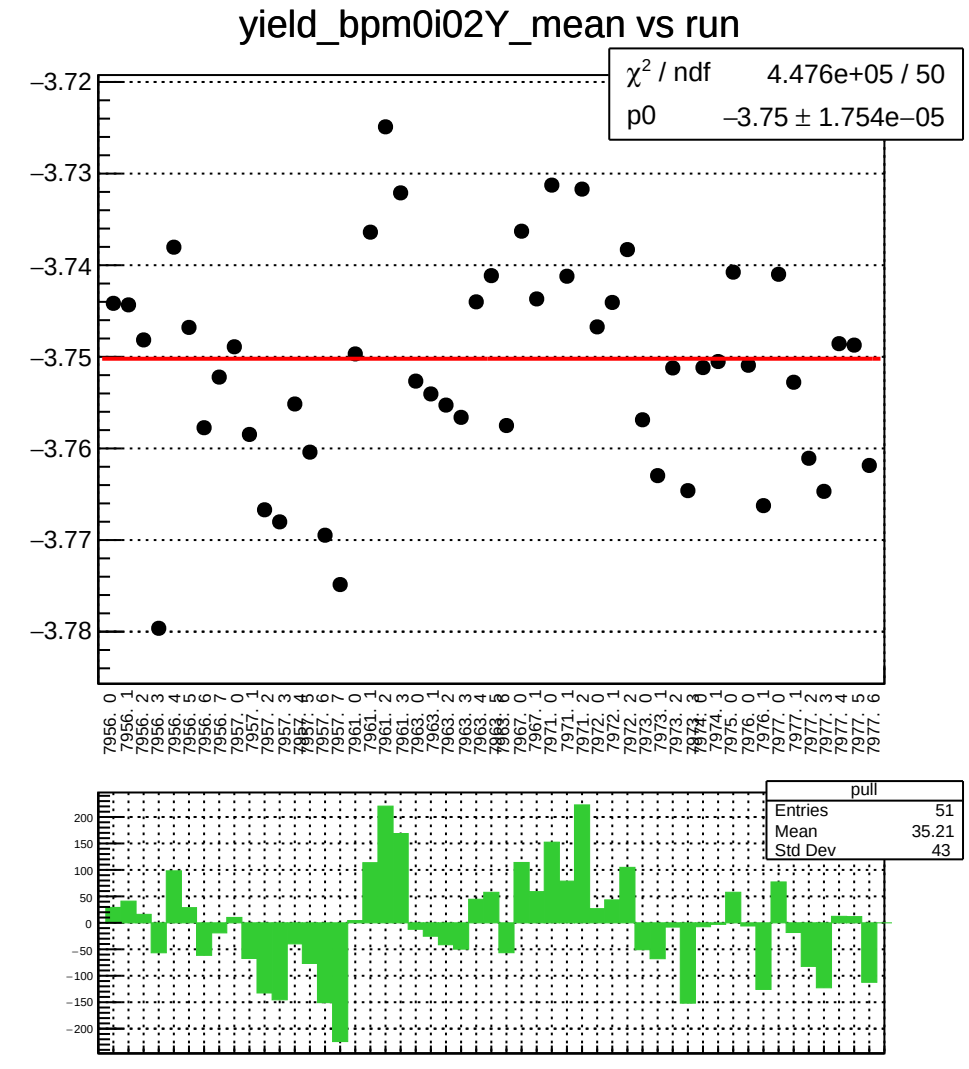

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

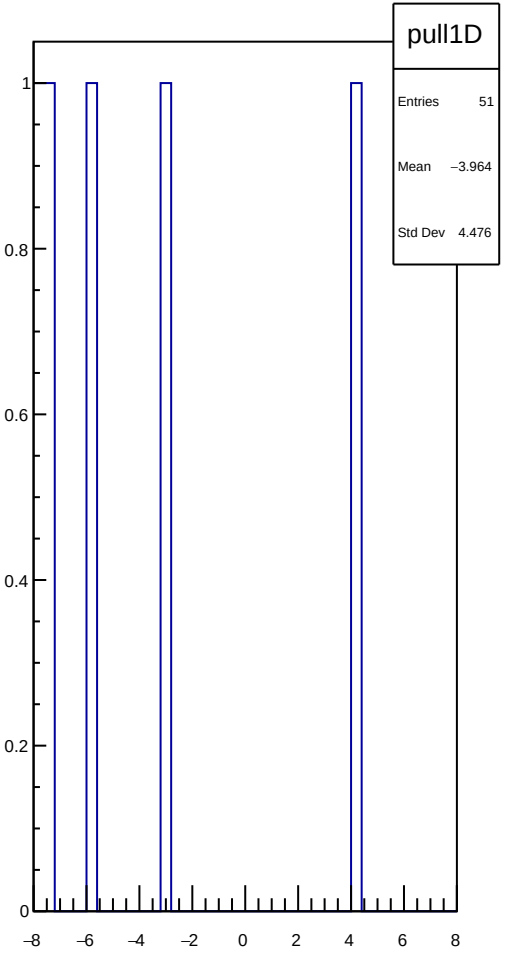

yield_bpm16Y_rms vs run
χ² / ndf 9.898e+04 / 50
p0 0.006202 ± 6.43e−06
0.05
0.04
0.03
0.02
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967.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

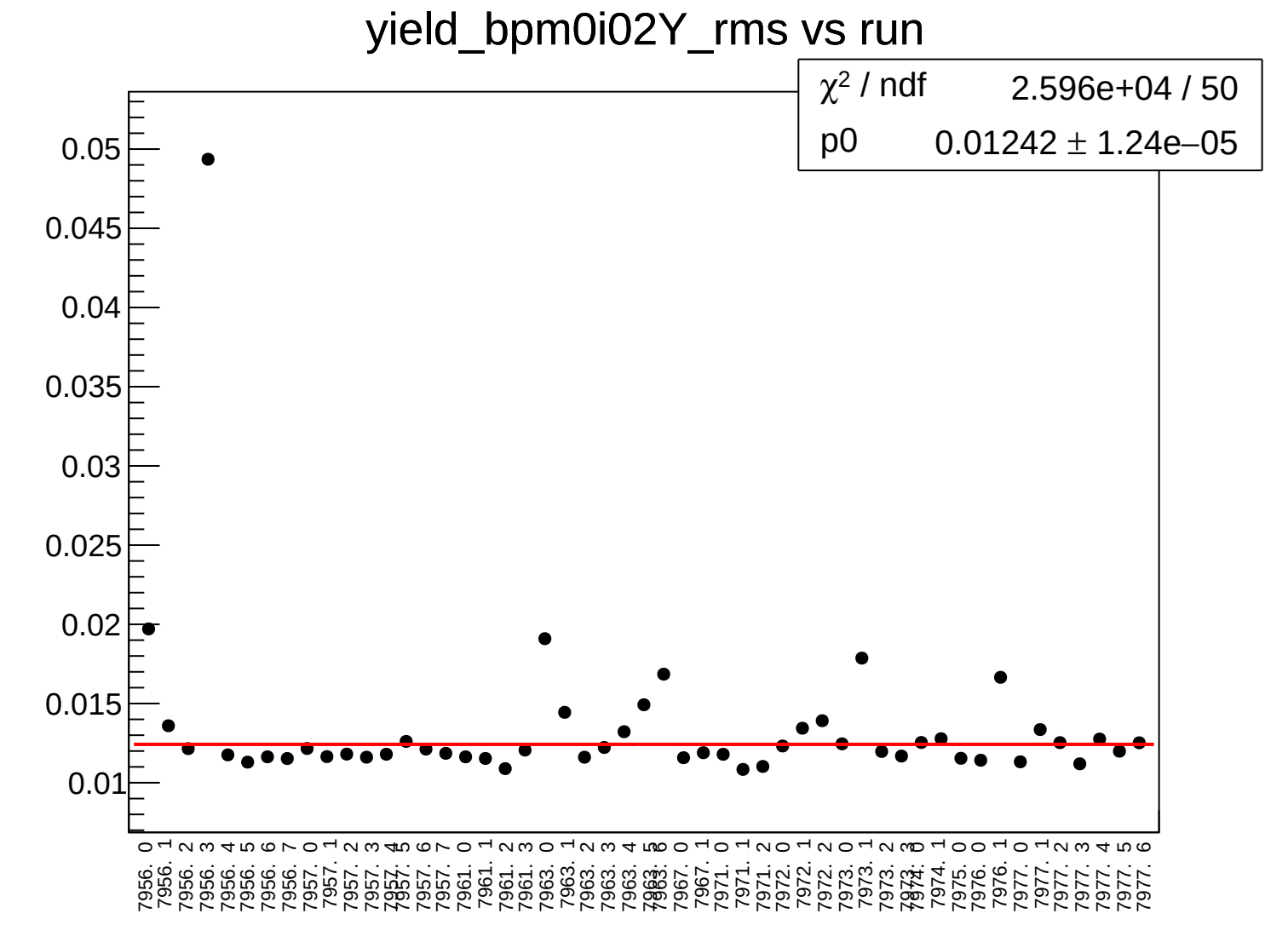

yield_bpm0i02X_mean vs run
χ² / ndf 1.016e+06 / 50
p0 0.5802 ± 1.039e−05
0.61
0.6
0.59
0.58
0.57
pull
Entries 51
Mean 235.9
Std Dev 205.6
400
300
200
100
0
−100
−200

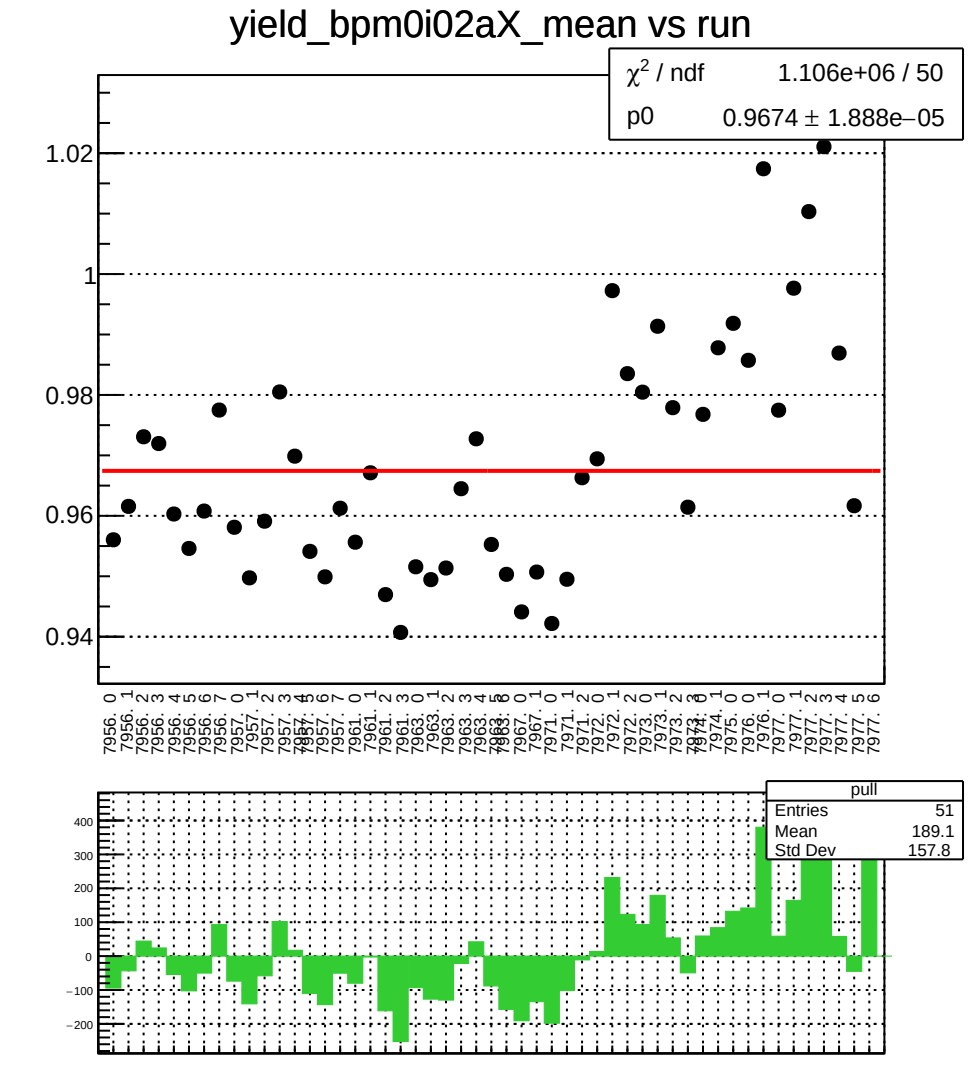

pull1D
Entries 51
Mean 0.8768
Std Dev 2.647
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

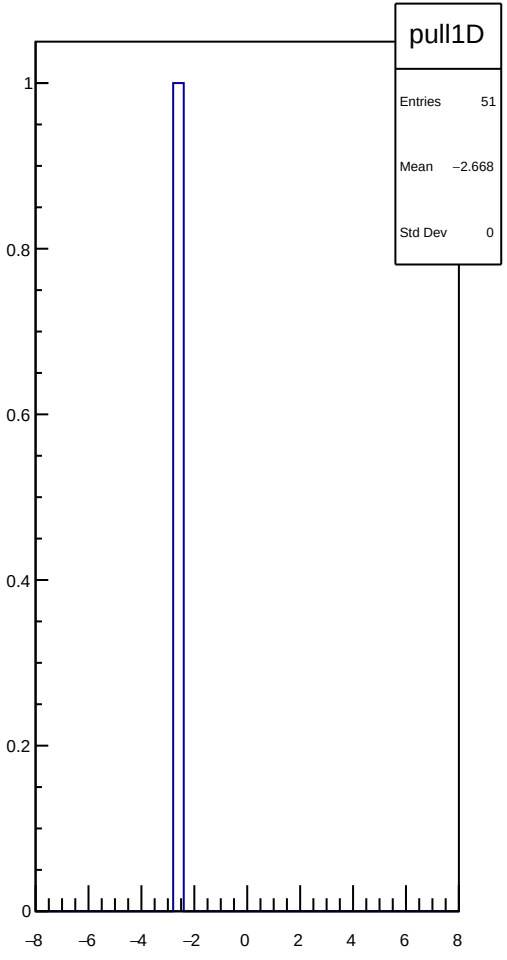

yield_bpm0i02X_rms vs run
χ² / ndf 2.744e+04 / 50
p0 0.007351 ± 7.345e−06
0.016
0.014
0.012
0.01
0.008
0.006
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
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

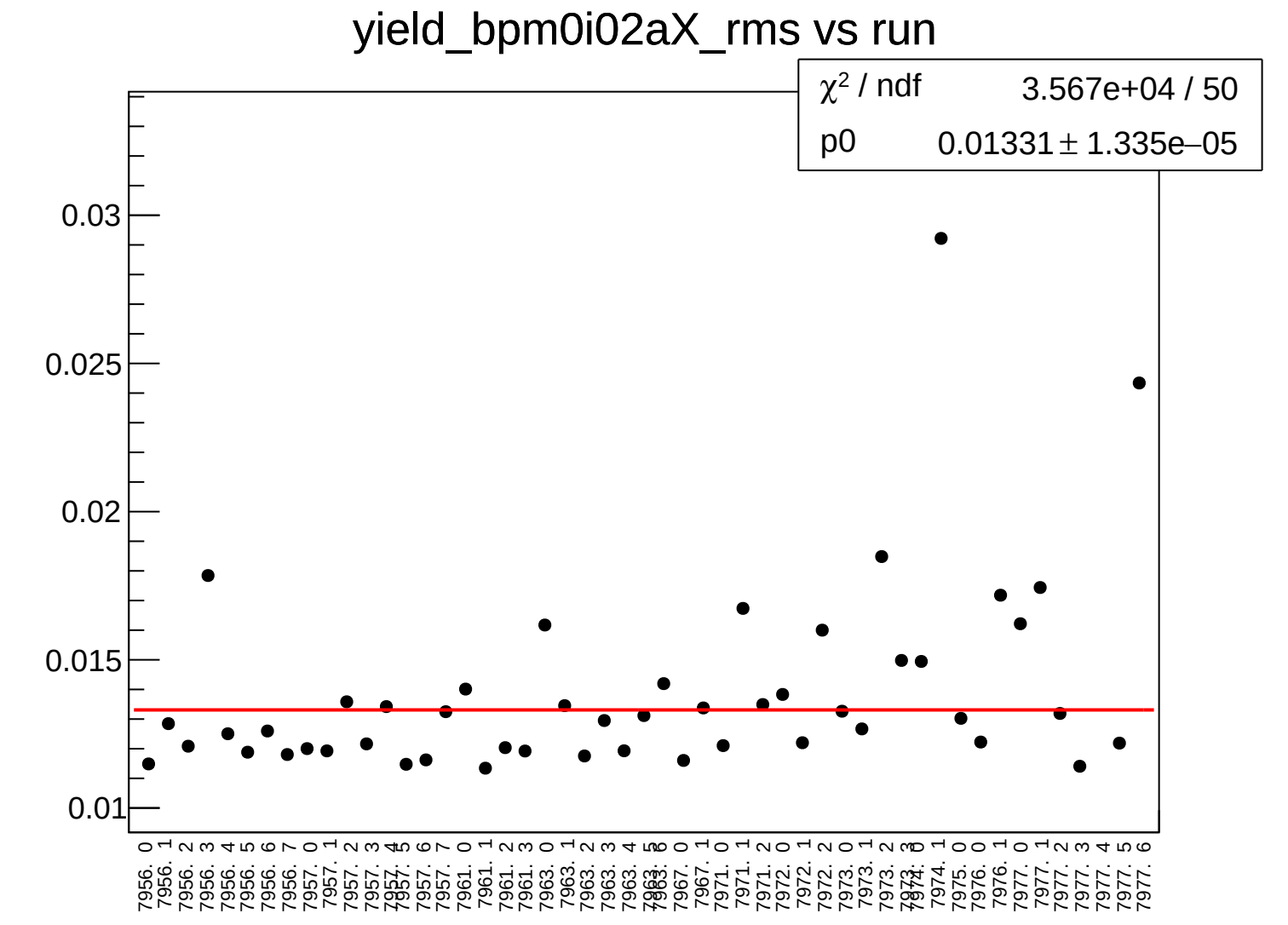

yield_bpm0i02Y_mean vs run
χ² / ndf 4.476e+05 / 50
p0 −3.75 ± 1.754e−05
−3.72
−3.73
−3.74
−3.75
−3.76
−3.77
−3.78
pull
Entries 51
Mean 35.21
Std Dev 43
200
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 51
Mean −3.964
Std Dev 4.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02Y_rms vs run
χ² / ndf 2.596e+04 / 50
p0 0.01242 ± 1.24e−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_bpm0i02aX_mean vs run
χ² / ndf 1.106e+06 / 50
p0 0.9674 ± 1.888e−05
1.02
1
0.98
0.96
0.94
pull
Entries 51
Mean 189.1
Std Dev 157.8
400
300
200
100
0
−100
−200


pull1D
Entries 51
Mean −2.668
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i02aX_rms vs run
χ² / ndf 3.567e+04 / 50
p0 0.01331 ± 1.335e–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
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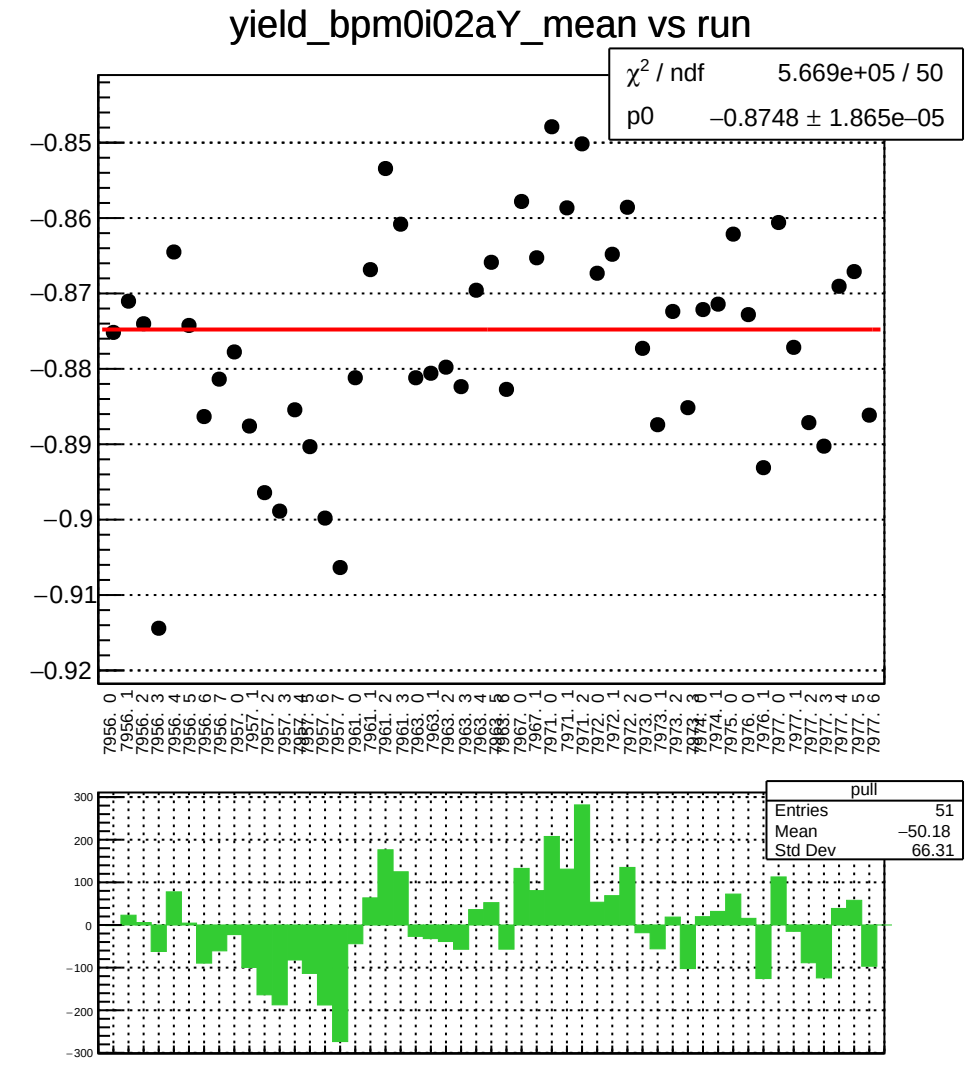
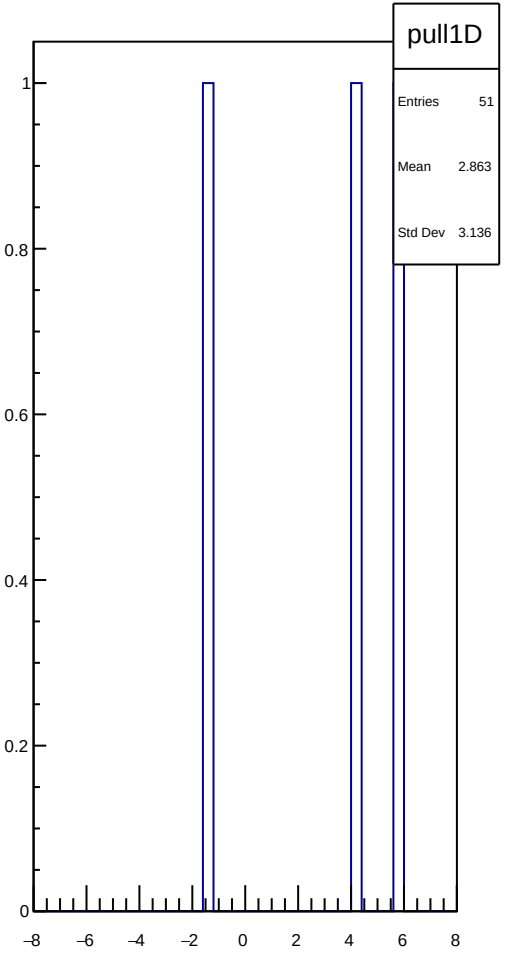
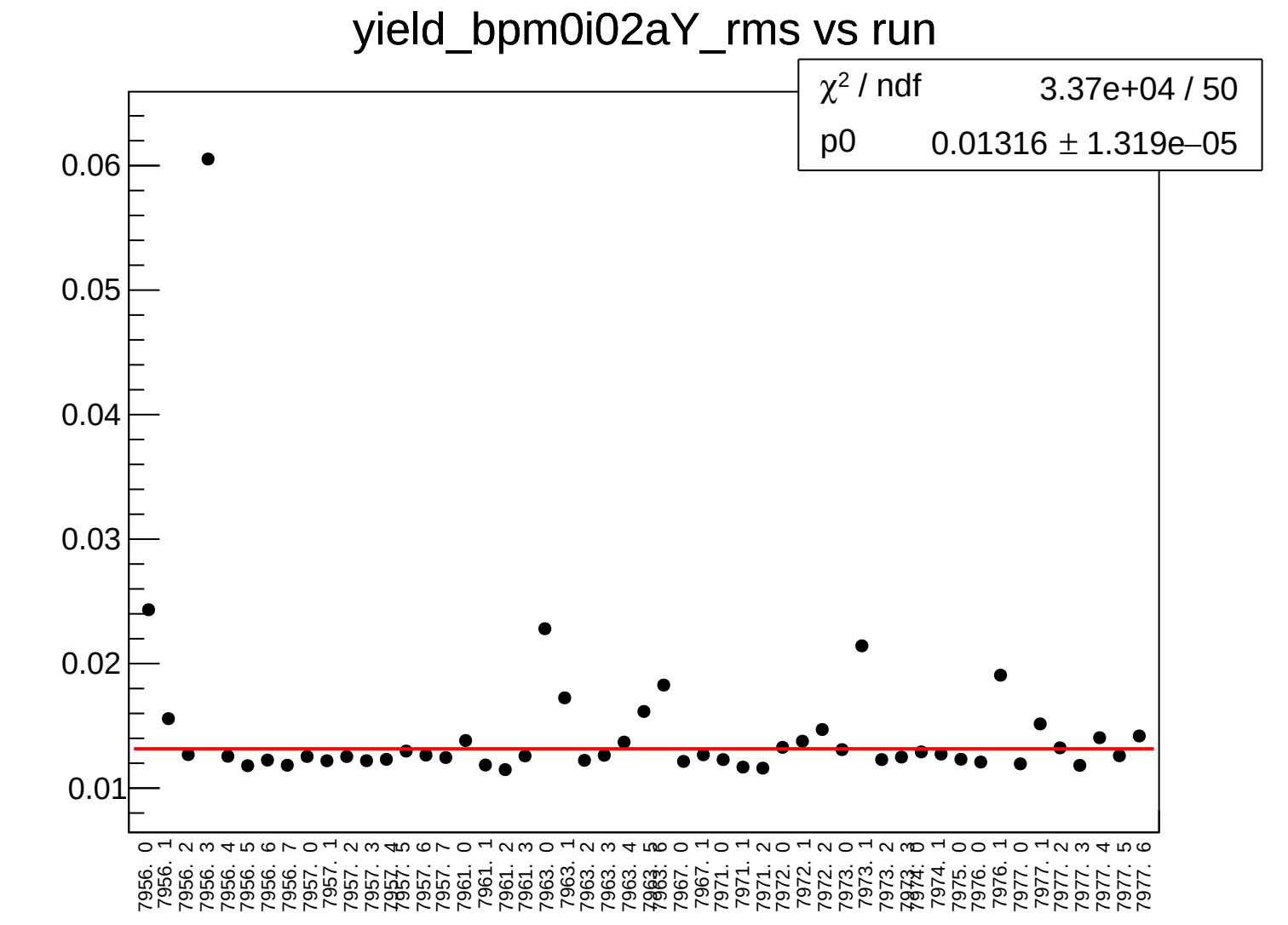
7977. 5
7977. 6


yield_bpm0i02aY_mean vs run
χ² / ndf 5.669e+05 / 50
p0 −0.8748 ± 1.865e−05
pull
Entries 51
Mean −50.18
Std Dev 66.31


pull1D
Entries 51
Mean 2.863
Std Dev 3.136


yield_bpm0i02aY_rms vs run
χ² / ndf 3.37e+04 / 50
p0 0.01316 ± 1.319e–05
0.06
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
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7977. 0
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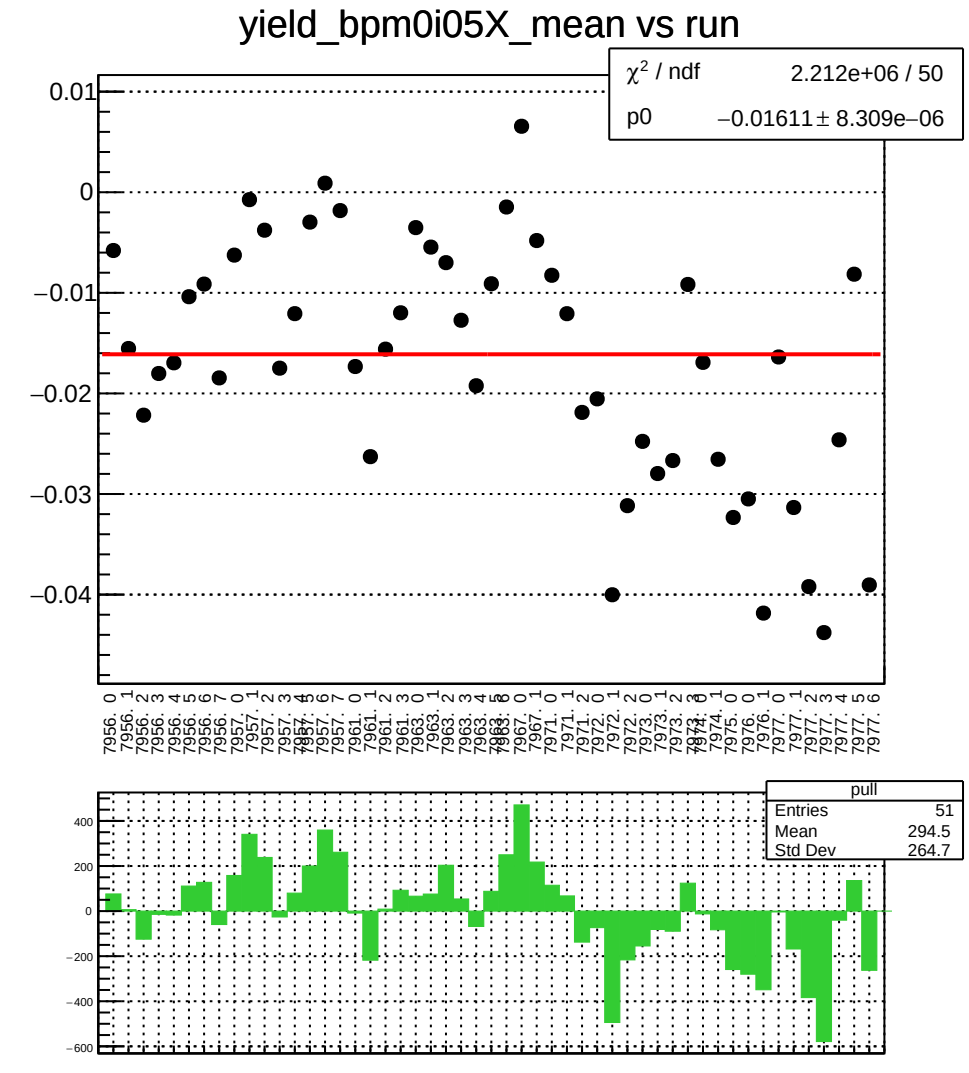
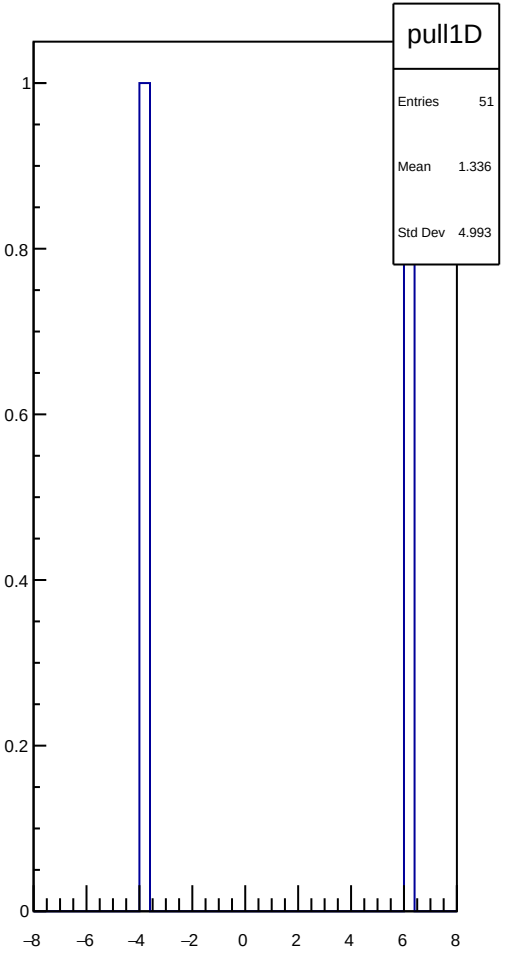
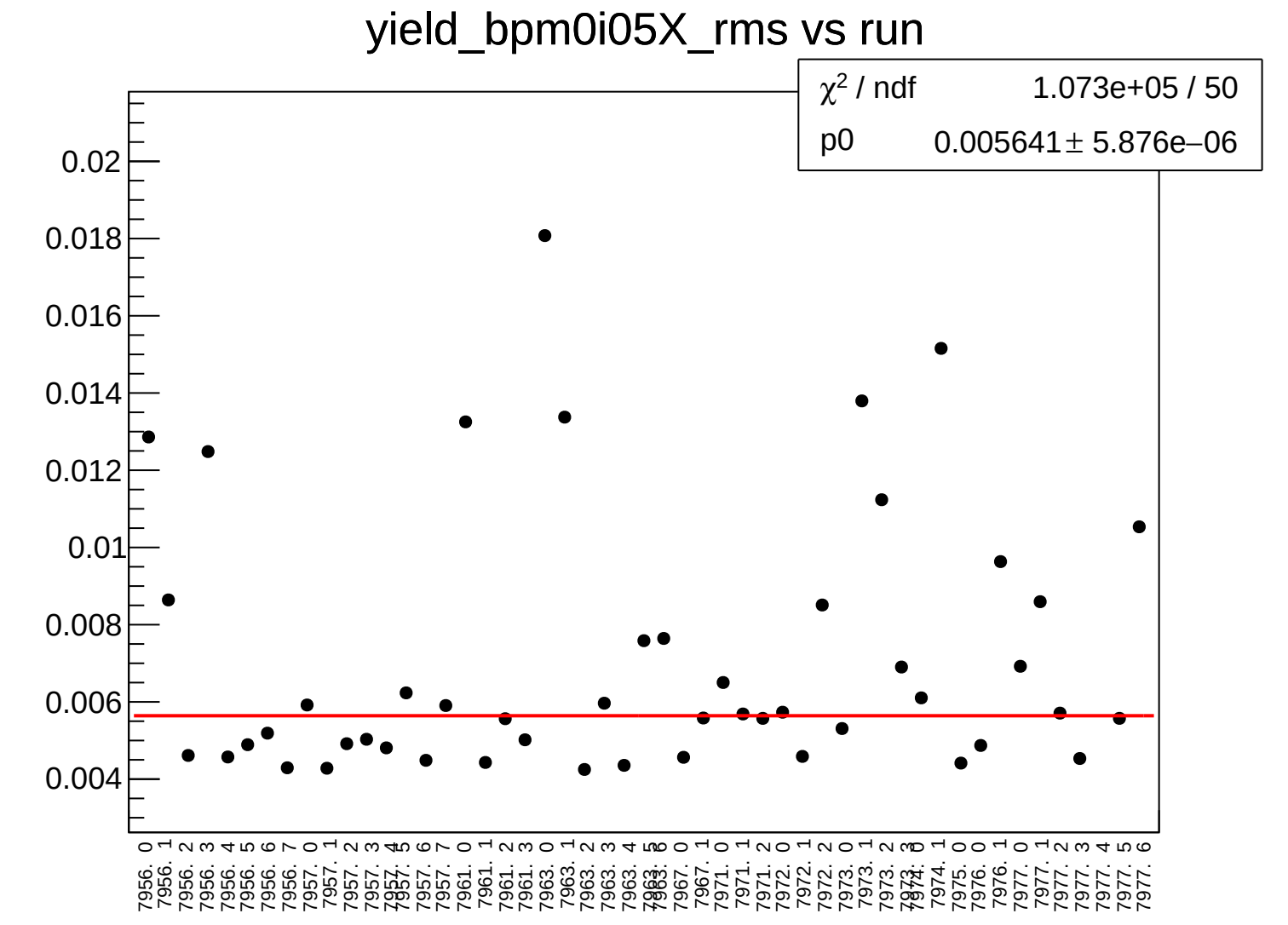
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm0i05X_mean vs run
χ² / ndf 2.212e+06 / 50
p0 −0.01611 ± 8.309e−06
pull
Entries 51
Mean 294.5
Std Dev 264.7


pull1D
Entries 51
Mean 1.336
Std Dev 4.993


yield_bpm0i05X_rms vs run
χ² / ndf 1.073e+05 / 50
p0 0.005641 ± 5.876e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
7956. 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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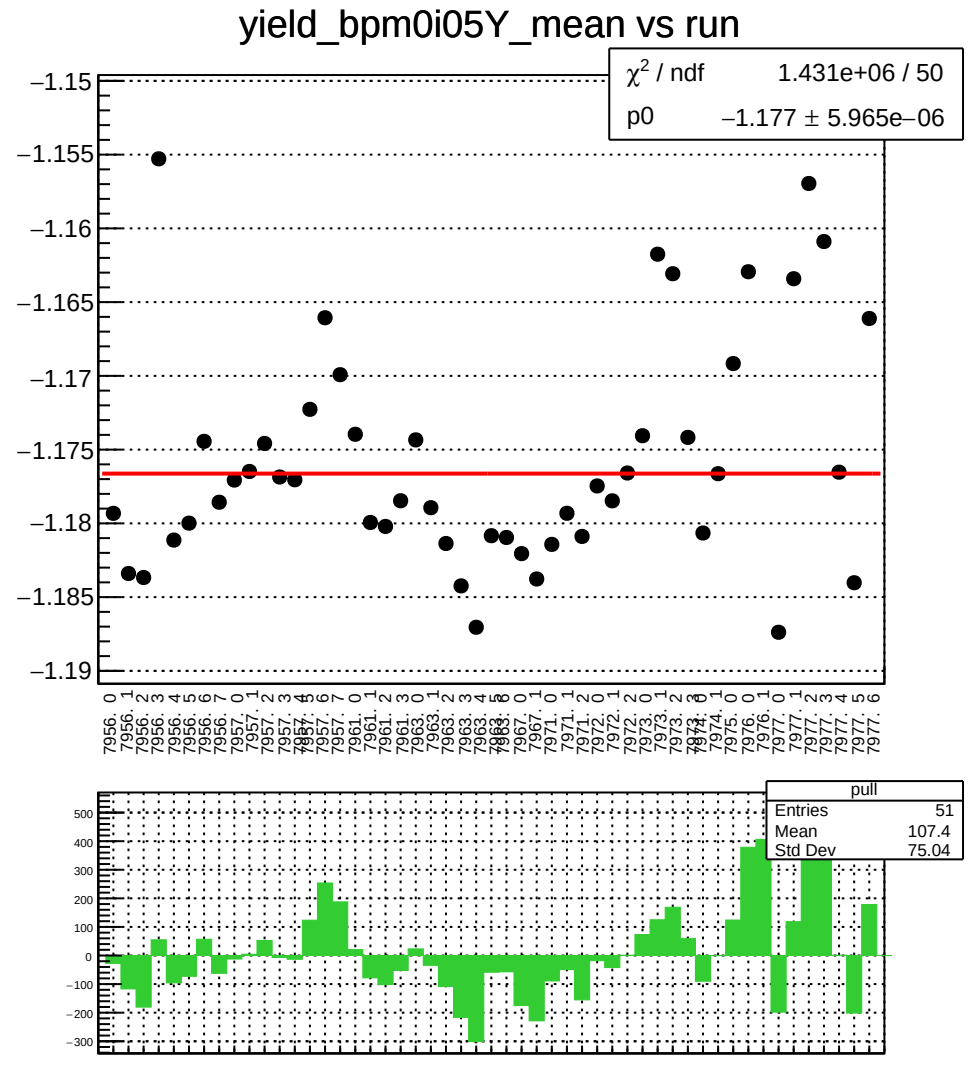
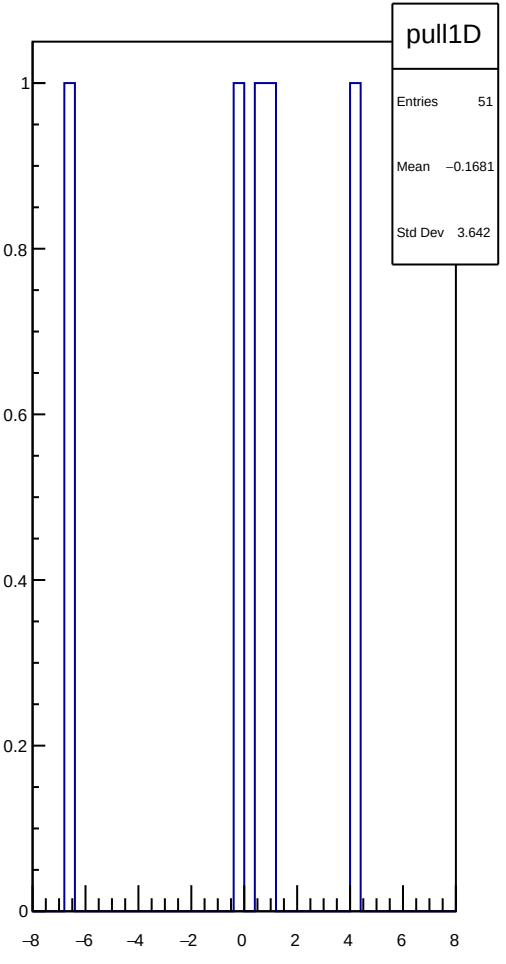
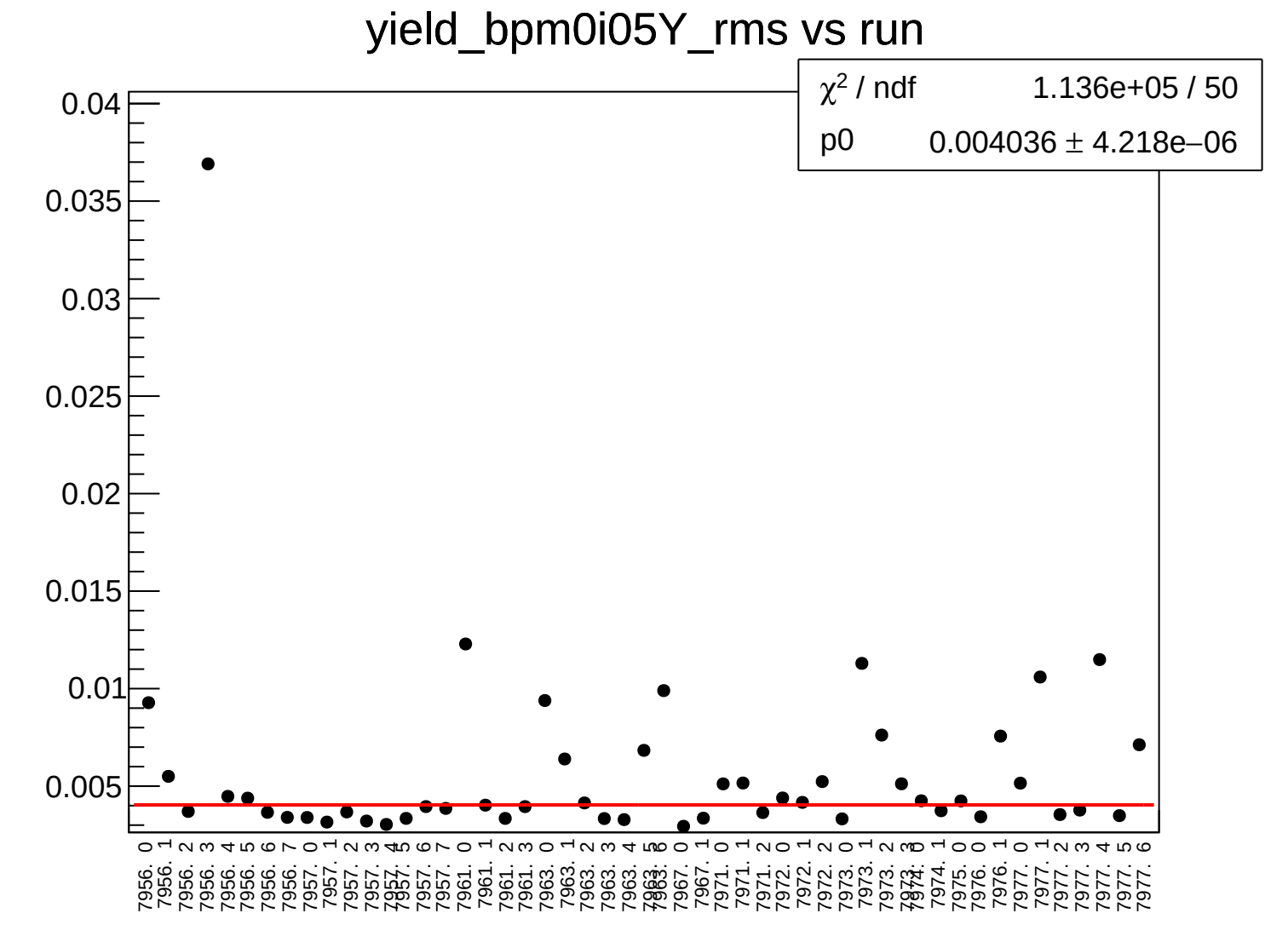
7977. 5
7977. 6


yield_bpm0i05Y_mean vs run
χ² / ndf 1.431e+06 / 50
p0 −1.177 ± 5.965e−06
pull
Entries 51
Mean 107.4
Std Dev 75.04


pull1D
Entries 51
Mean −0.1681
Std Dev 3.642


yield_bpm0i05Y_rms vs run
χ² / ndf 1.136e+05 / 50
p0 0.004036 ± 4.218e−06
0.04
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. 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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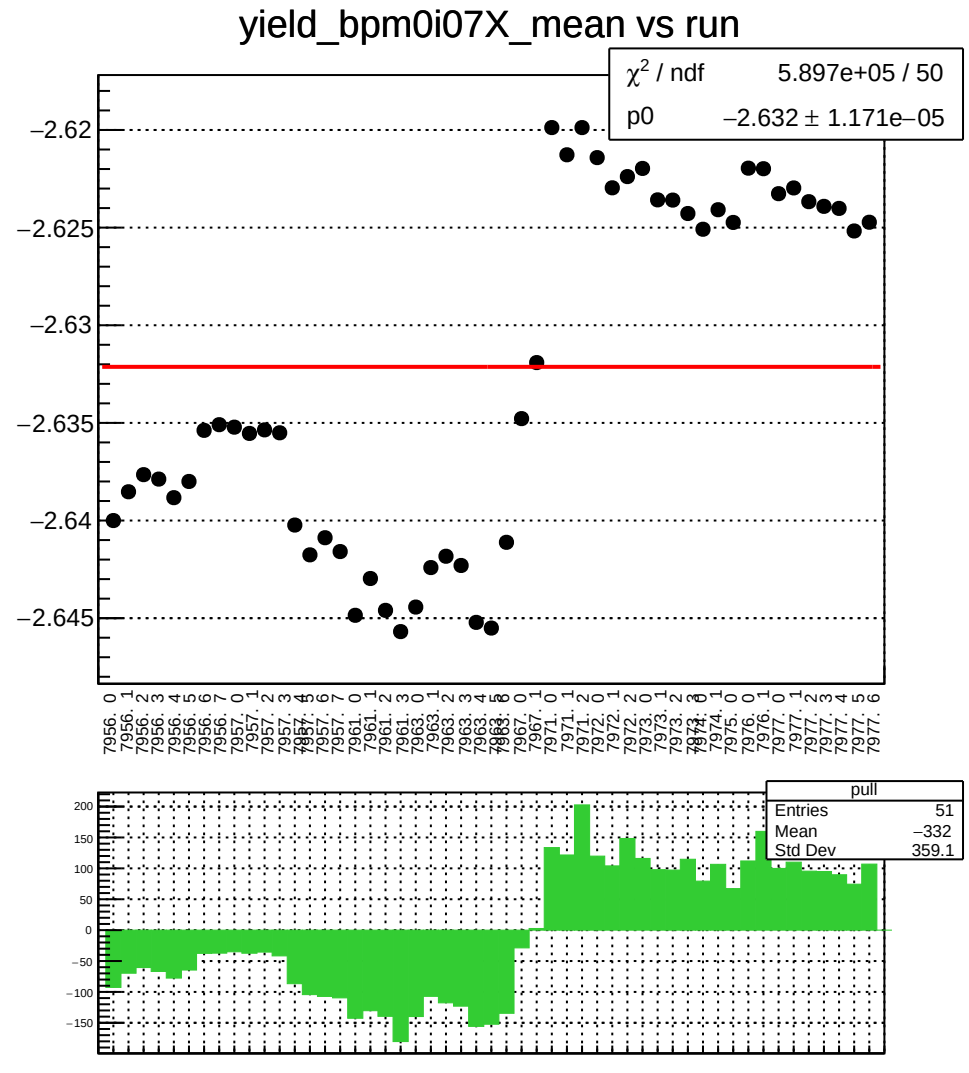
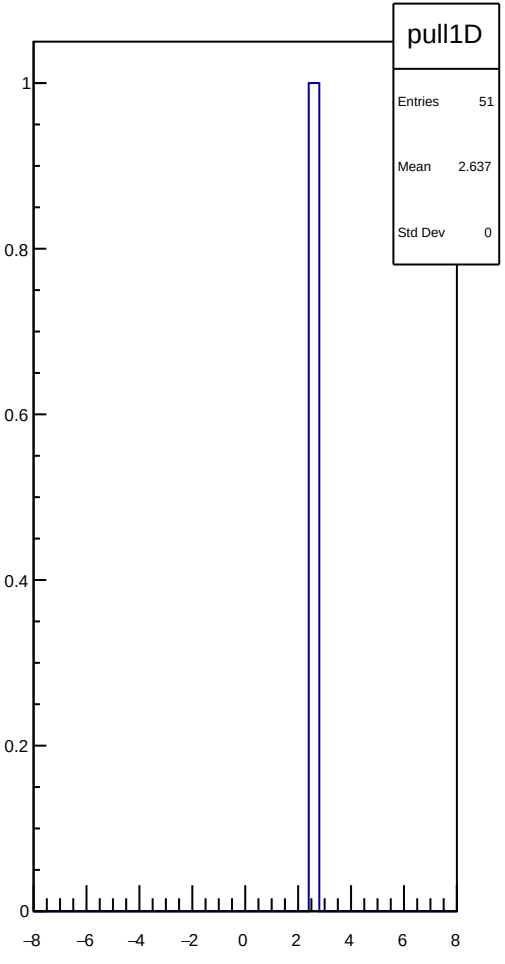
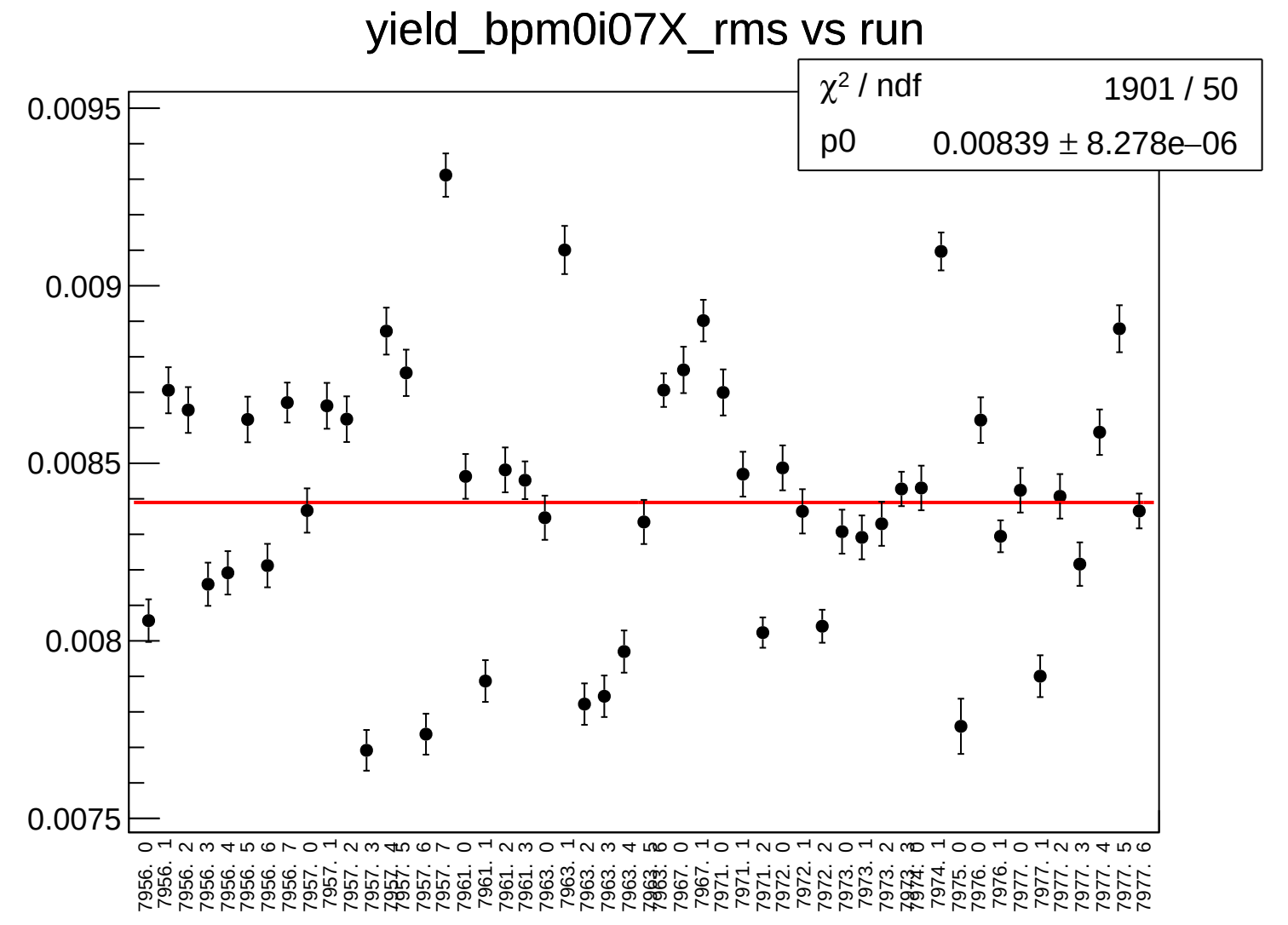
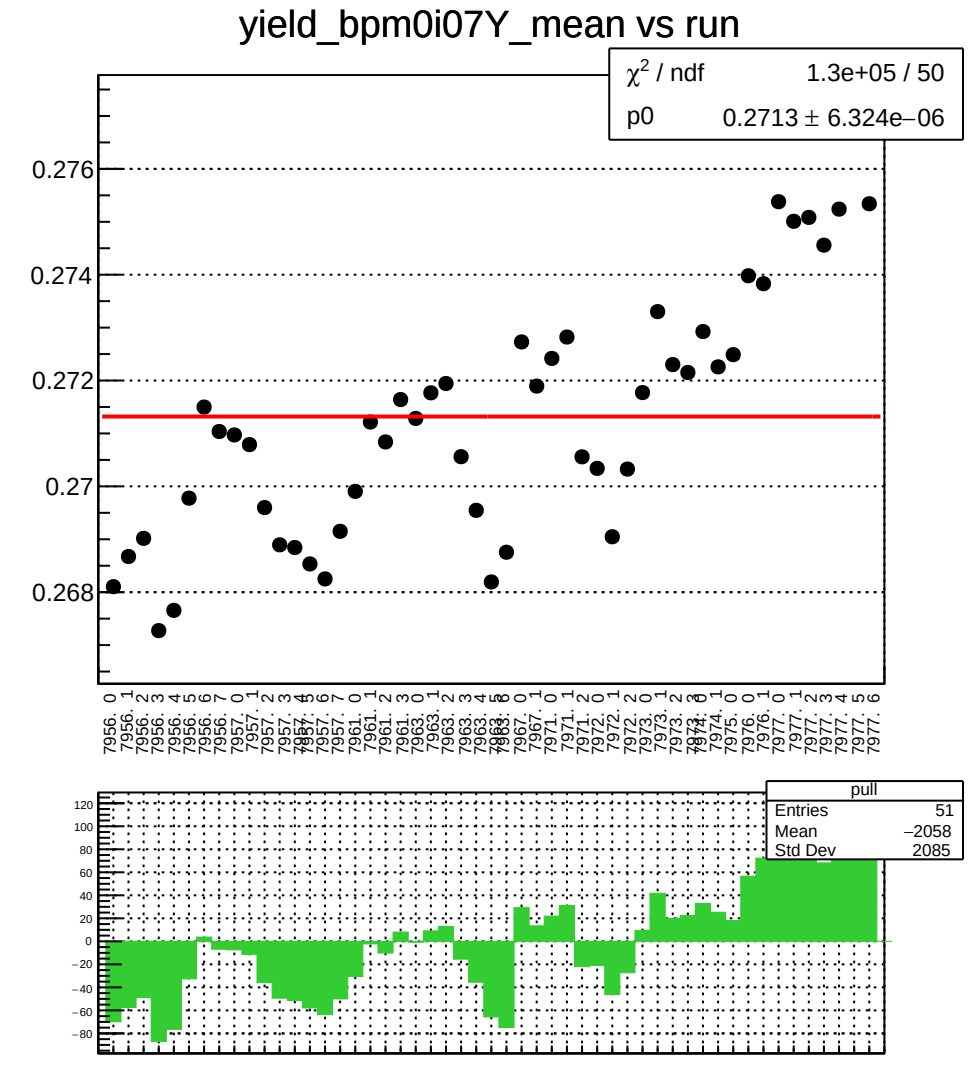
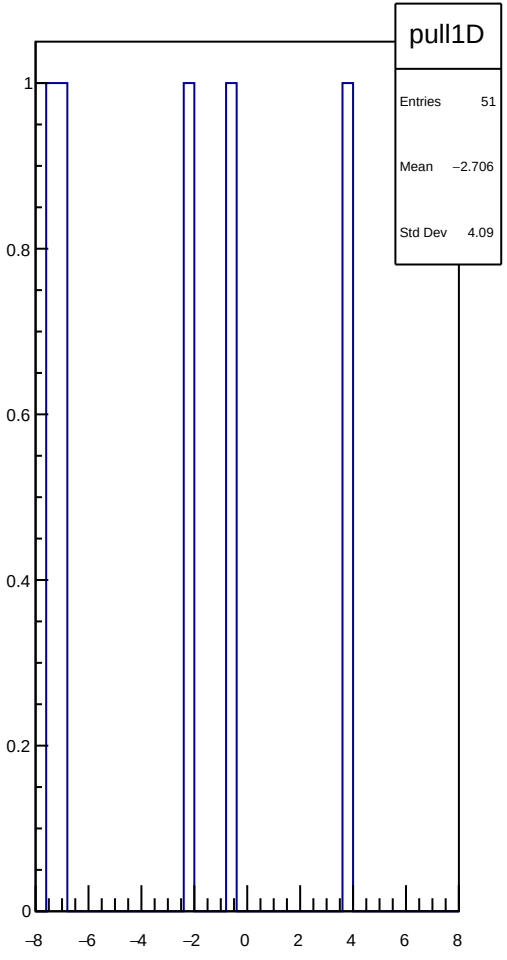
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

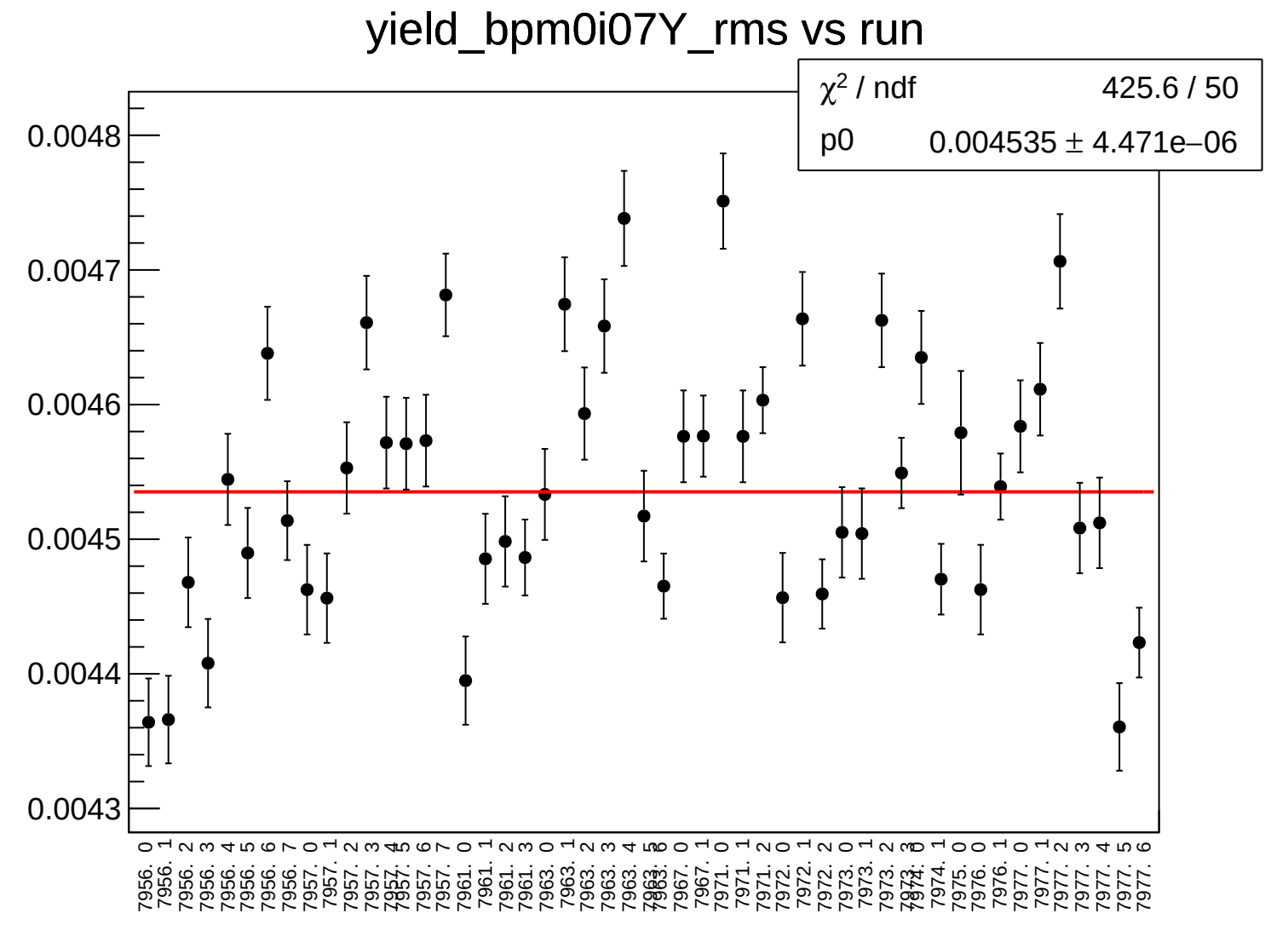

yield_bpm0i07X_mean vs run
χ² / ndf 5.897e+05 / 50
p0 −2.632 ± 1.171e−05
−2.62
−2.625
−2.63
−2.635
−2.64
−2.645
pull
Entries 51
Mean −332
Std Dev 359.1
200
150
100
50
0
−50
−100
−150

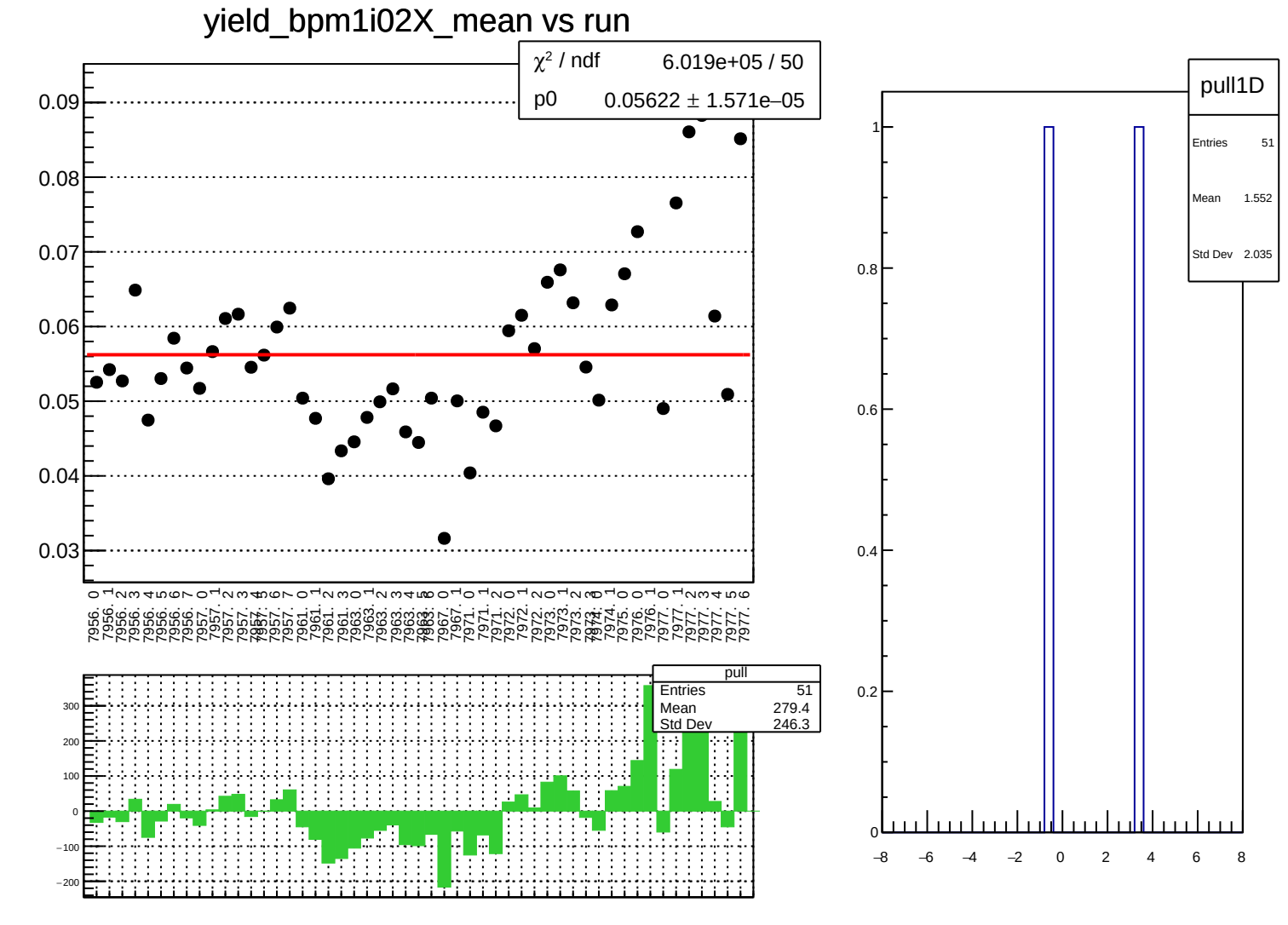

pull1D
Entries 51
Mean 2.637
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

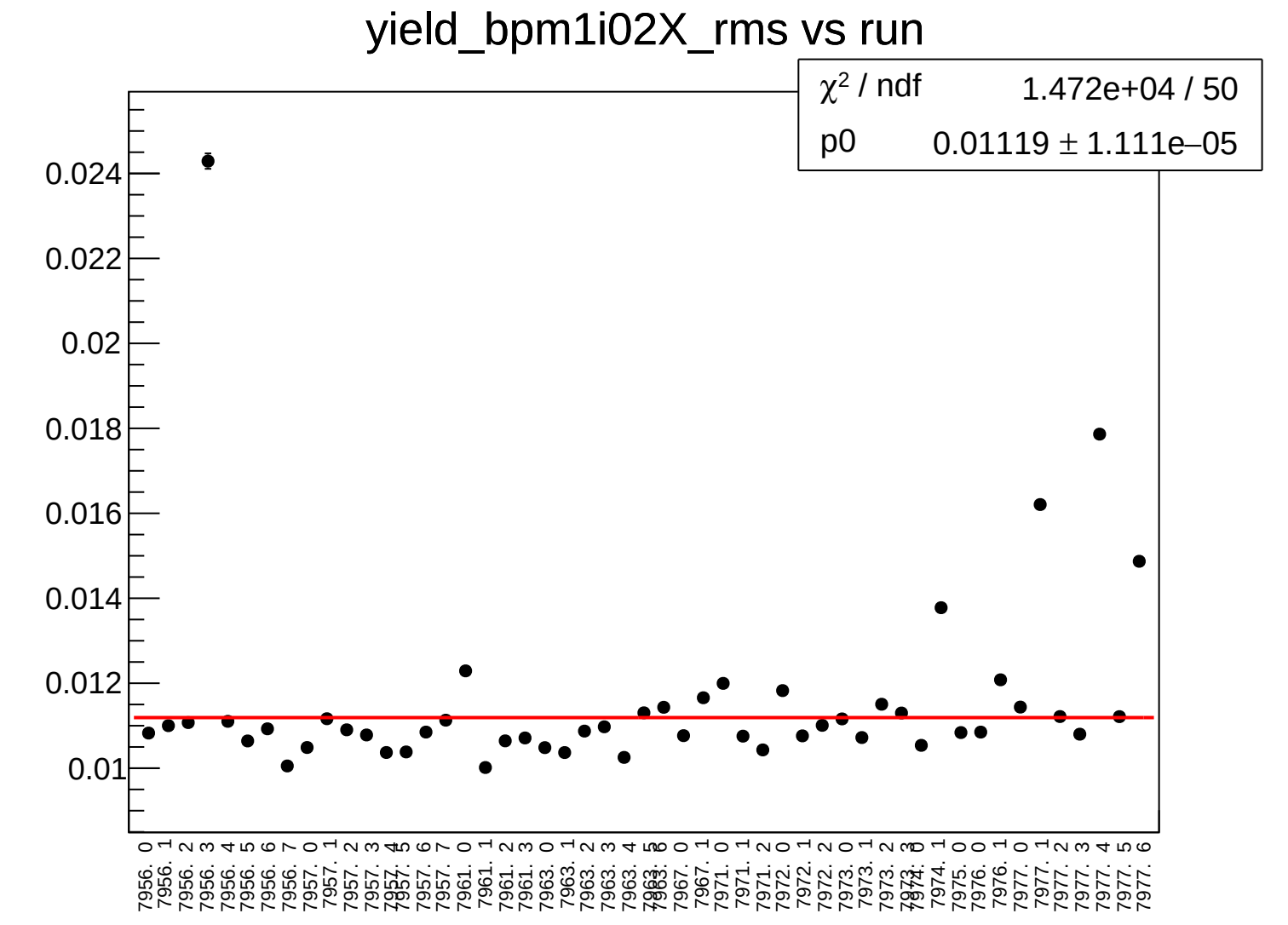

yield_bpm0i07X_rms vs run
χ² / ndf 1901 / 50
p0 0.00839 ± 8.278e–06
0.0095
0.009
0.0085
0.008
0.0075
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
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_bpm0i07Y_mean vs run
χ² / ndf 1.3e+05 / 50
p0 0.2713 ± 6.324e−06
0.276
0.274
0.272
0.27
0.268
pull
Entries 51
Mean −2058
Std Dev 2085
120
100
80
60
40
20
0
−20
−40
−60
−80


pull1D
Entries 51
Mean −2.706
Std Dev 4.09
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0i07Y_rms vs run
χ² / ndf 425.6 / 50
p0 0.004535 ± 4.471e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
7956. 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_bpm1i02X_mean vs run
χ² / ndf 6.019e+05 / 50
p0 0.05622 ± 1.571e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 51
Mean 279.4
Std Dev 246.3
300
200
100
0
−100
−200
pull1D
Entries 51
Mean 1.552
Std Dev 2.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i02X_rms vs run
χ² / ndf 1.472e+04 / 50
p0 0.01119 ± 1.111e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
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
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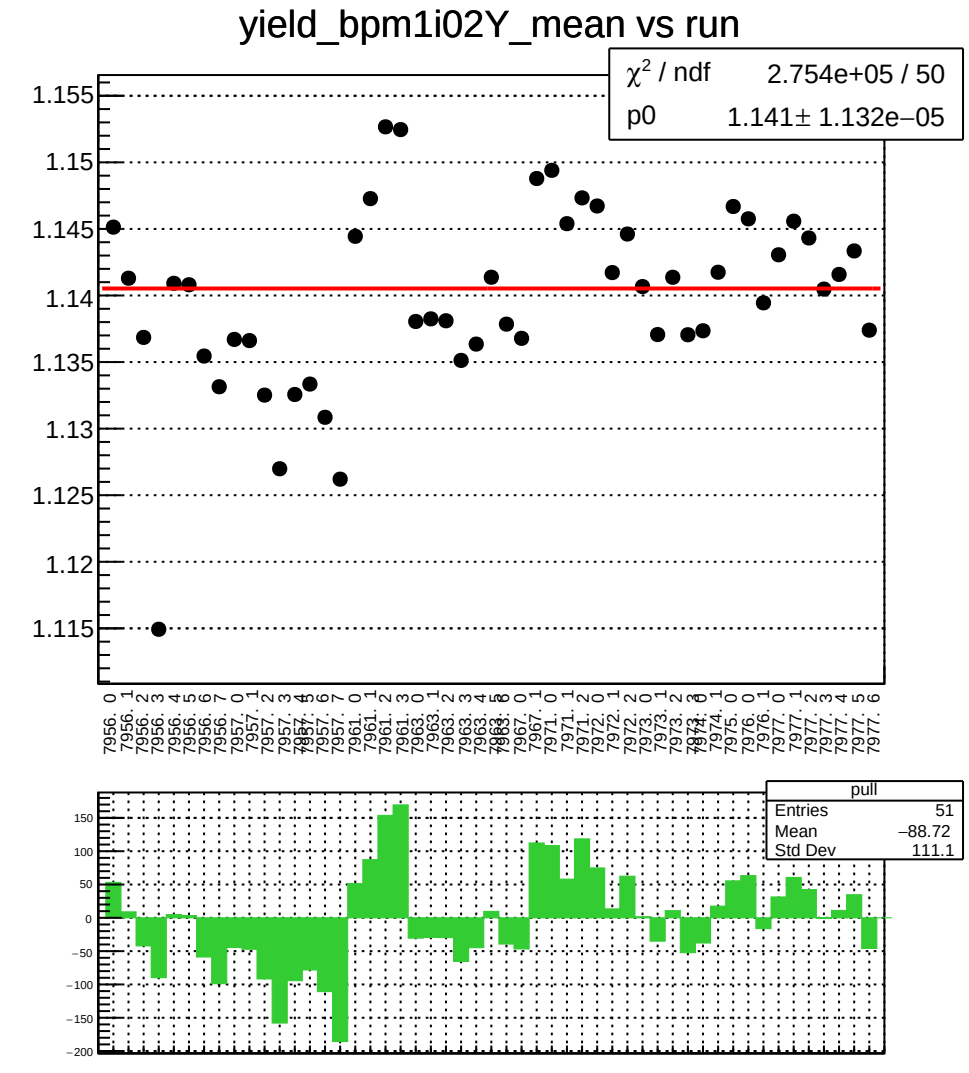
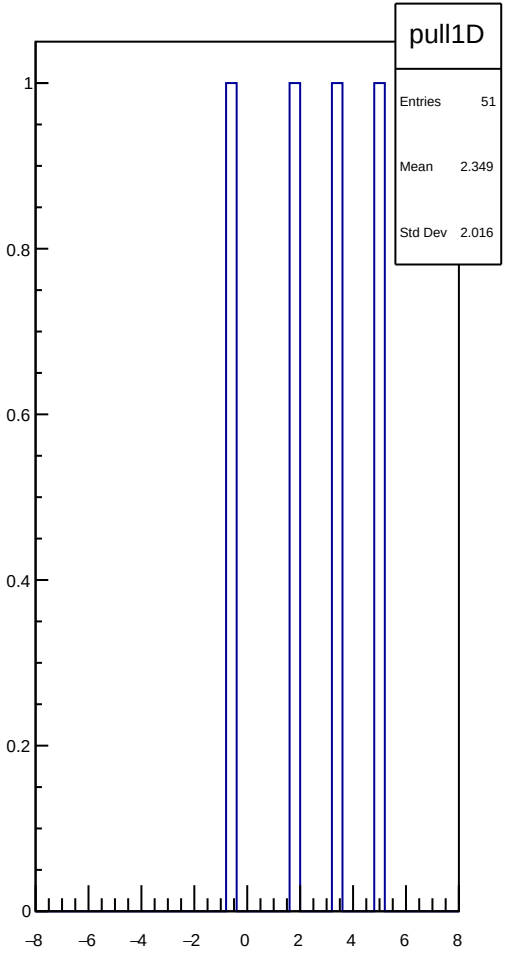
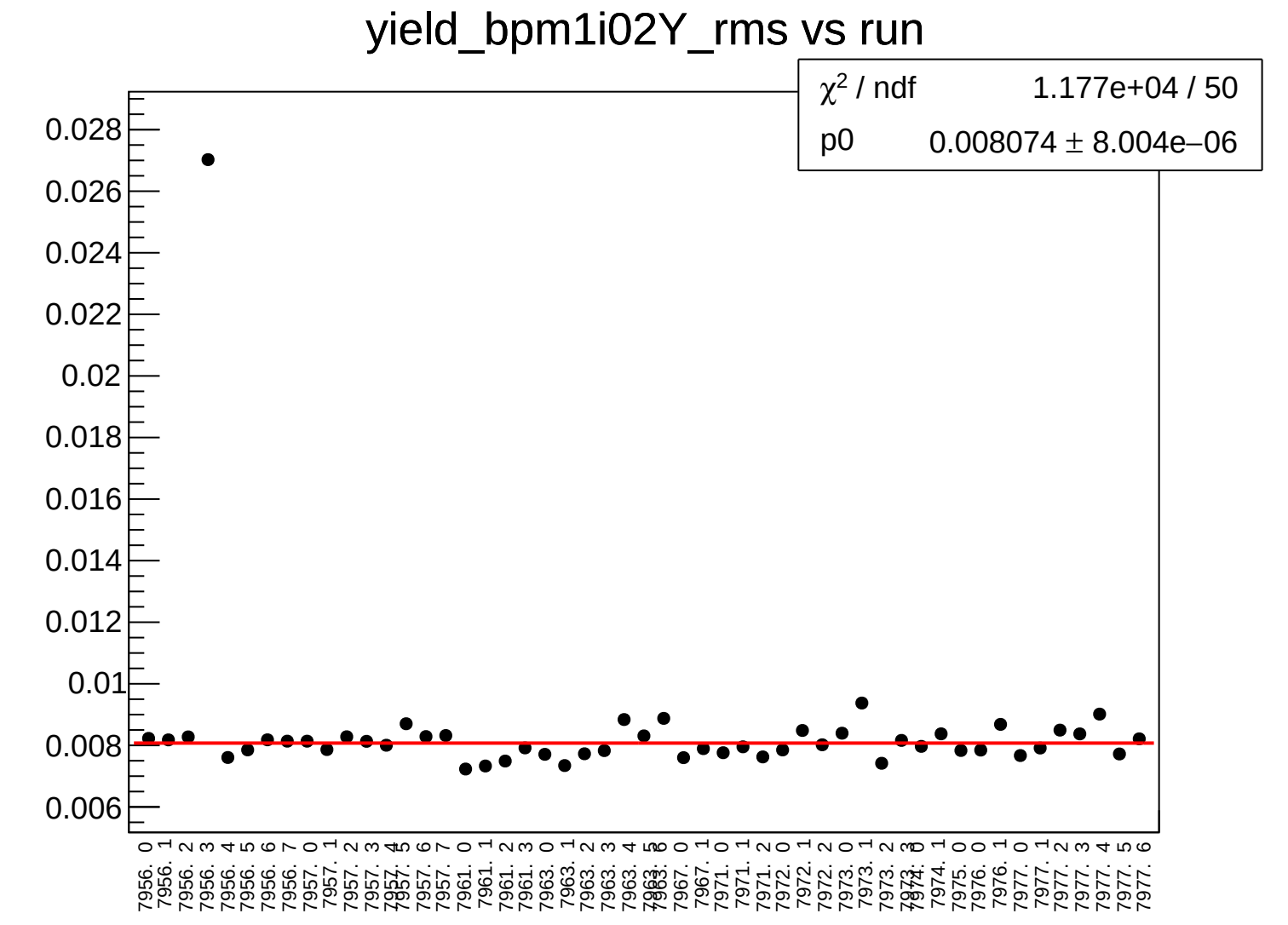
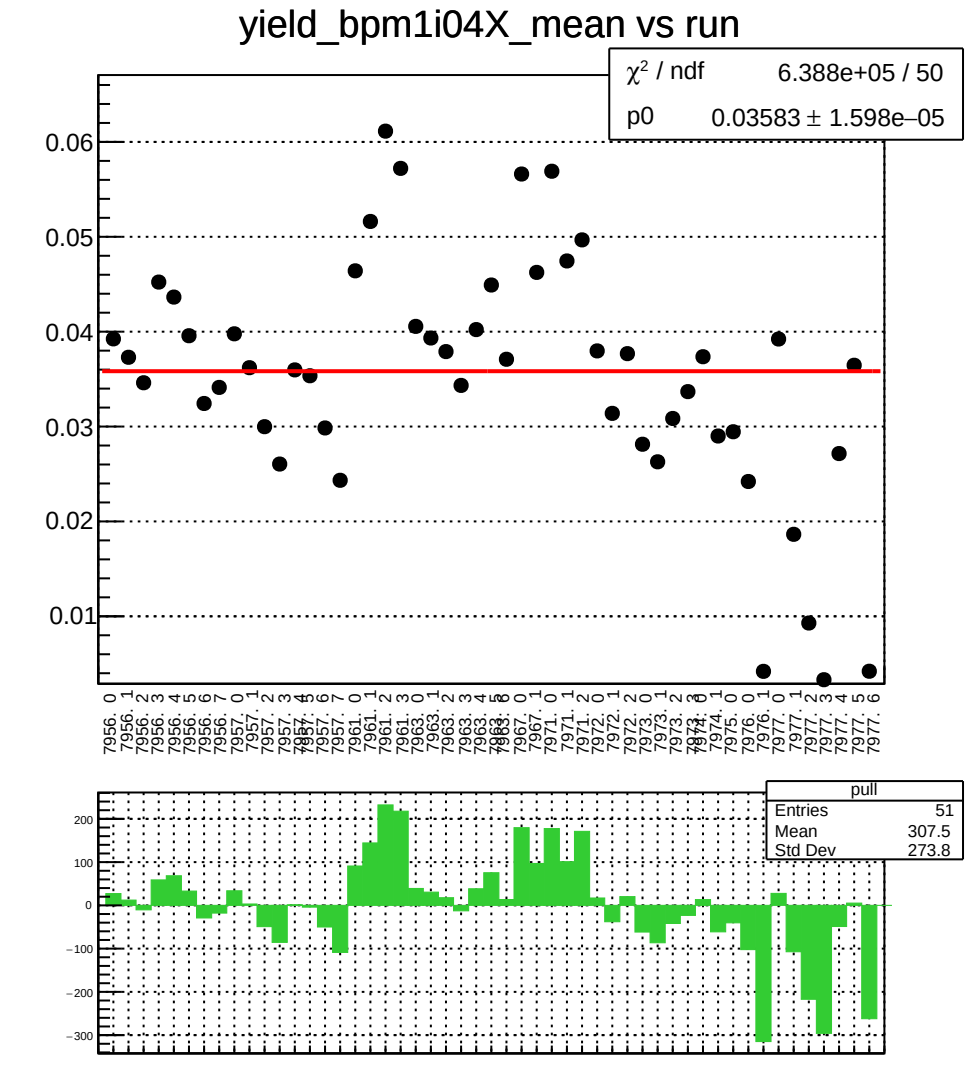
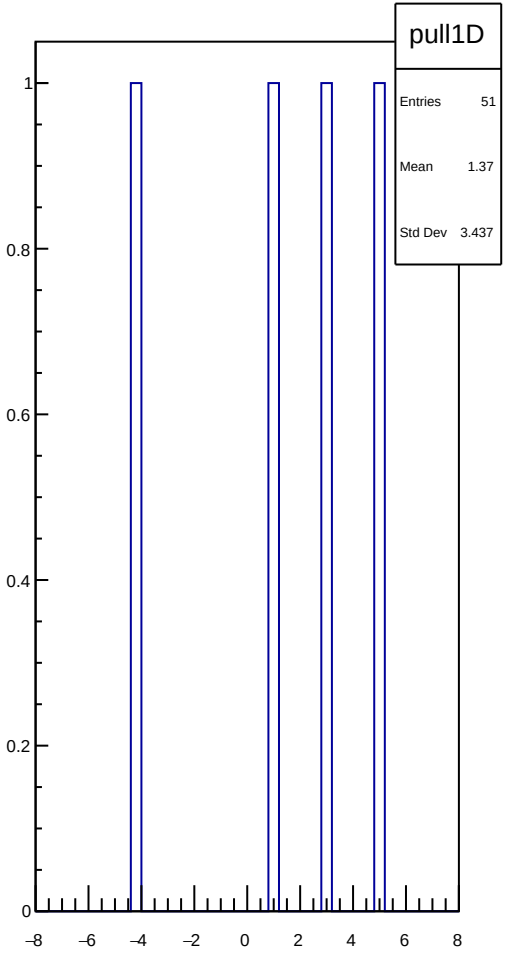
7977. 5
7977. 6

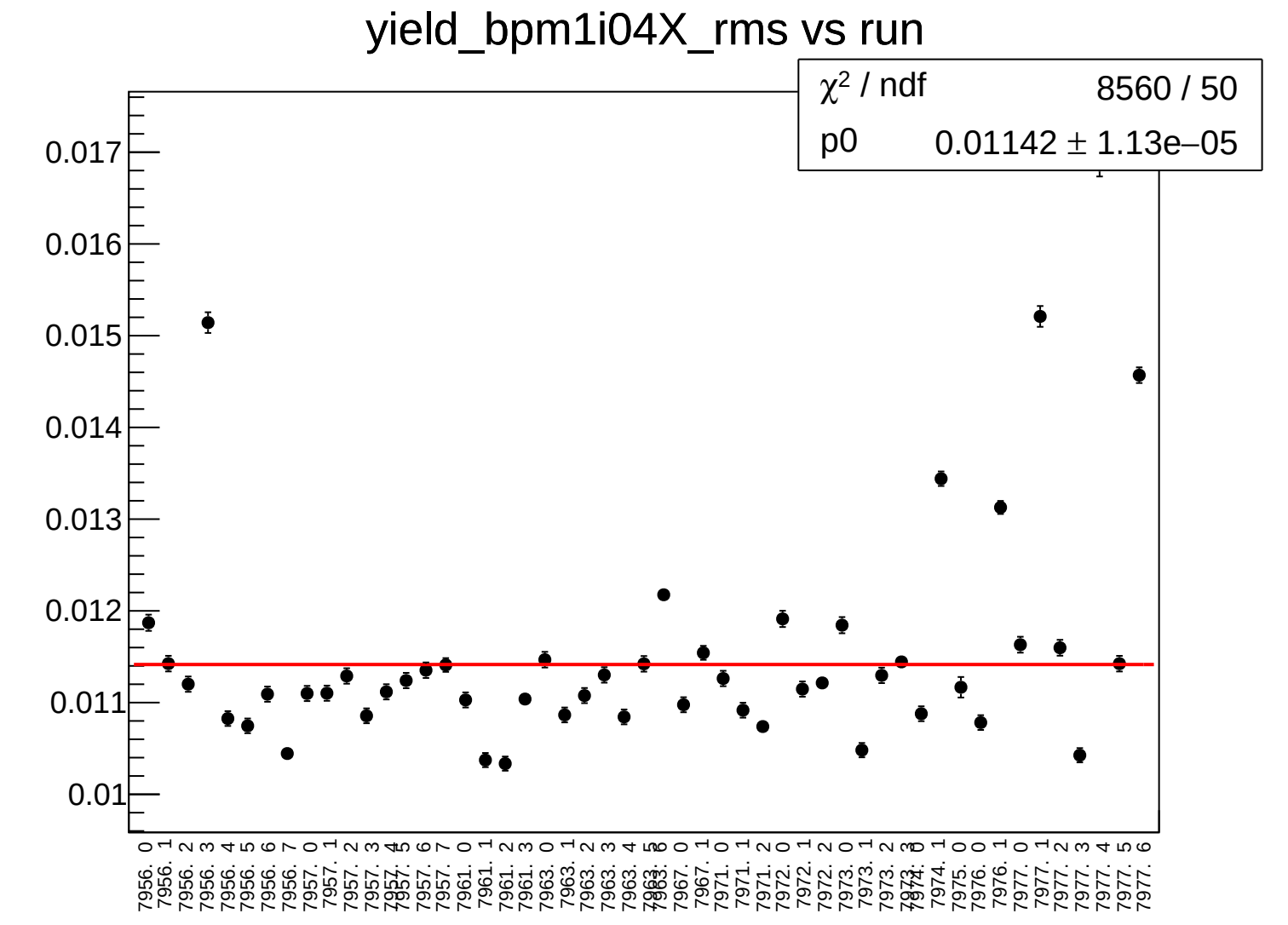

yield_bpm1i02Y_mean vs run
χ² / ndf 2.754e+05 / 50
p0 1.141± 1.132e−05
pull
Entries 51
Mean −88.72
Std Dev 111.1

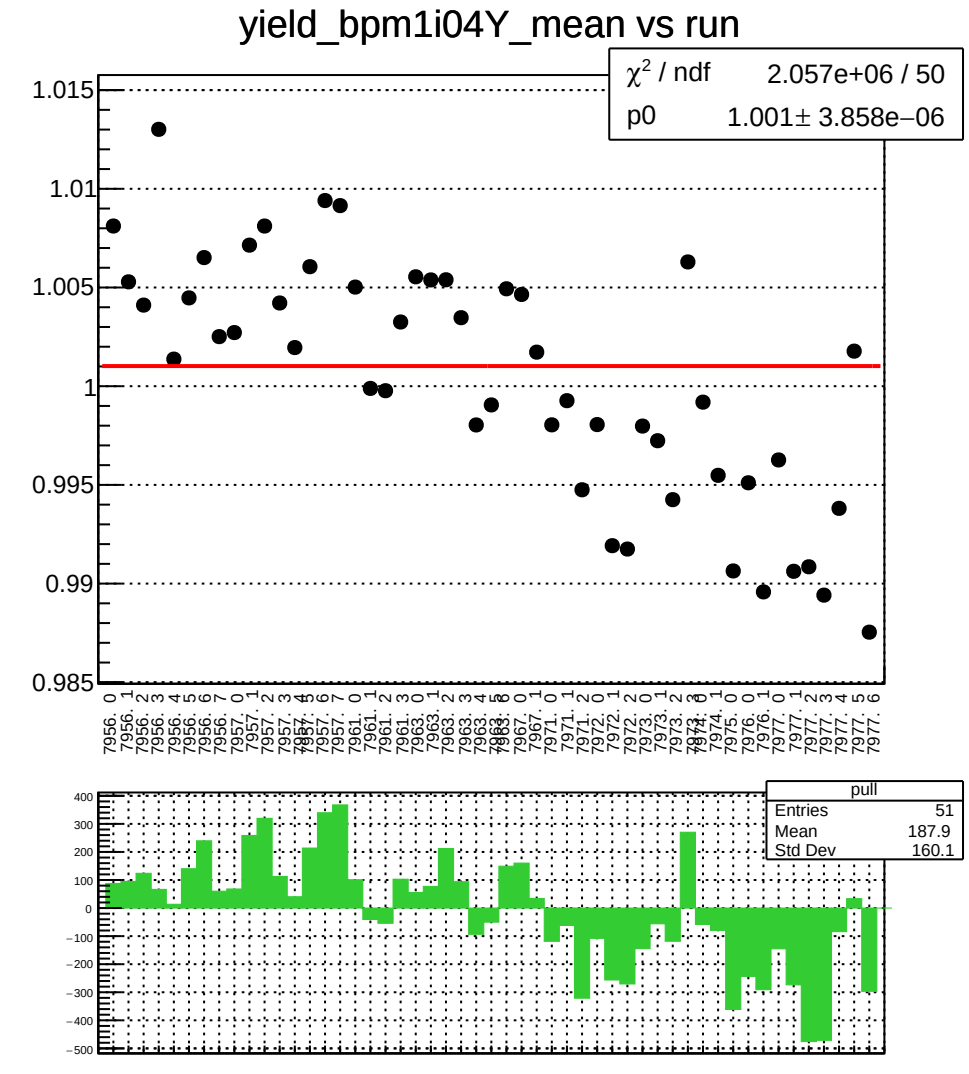

pull1D
Entries 51
Mean 2.349
Std Dev 2.016

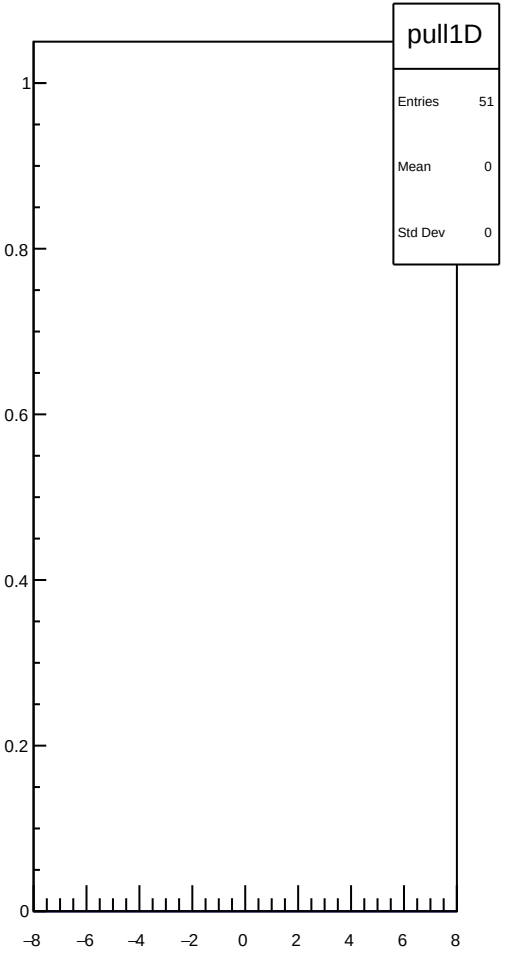

yield_bpm1i02Y_rms vs run
χ² / ndf 1.177e+04 / 50
p0 0.008074 ± 8.004e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 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

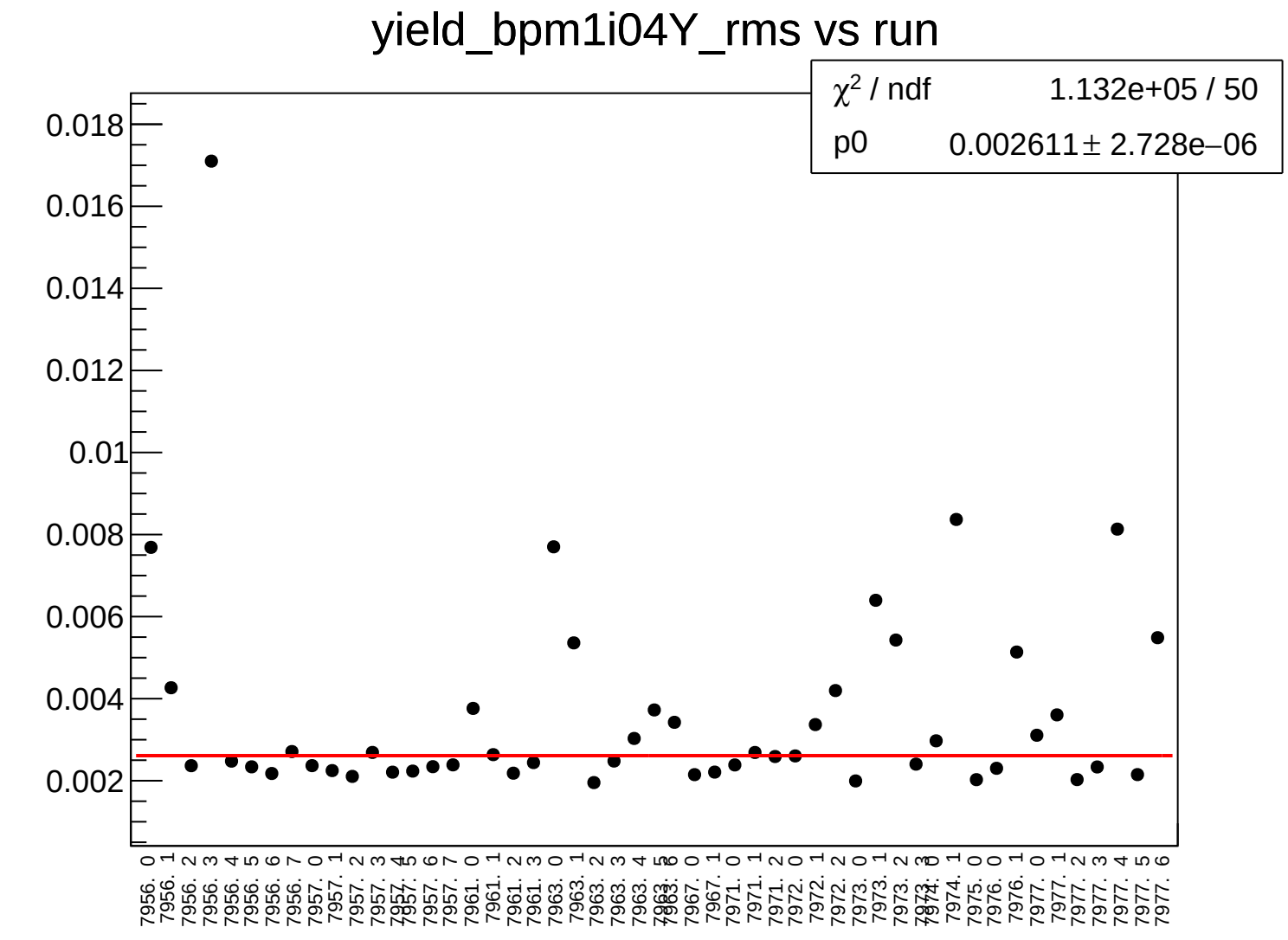

yield_bpm1i04X_mean vs run
χ² / ndf 6.388e+05 / 50
p0 0.03583 ± 1.598e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 51
Mean 307.5
Std Dev 273.8
200
100
0
−100
−200
−300


pull1D
Entries 51
Mean 1.37
Std Dev 3.437
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i04X_rms vs run
χ^2 / ndf 8560 / 50
p0 0.01142 ± 1.13e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
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_bpm1i04Y_mean vs run
χ² / ndf 2.057e+06 / 50
p0 1.001± 3.858e−06
1.015
1.01
1.005
1
0.995
0.99
0.985
pull
Entries 51
Mean 187.9
Std Dev 160.1
400
300
200
100
0
−100
−200
−300
−400
−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_bpm1i04Y_rms vs run
χ² / ndf 1.132e+05 / 50
p0 0.002611 ± 2.728e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7956. 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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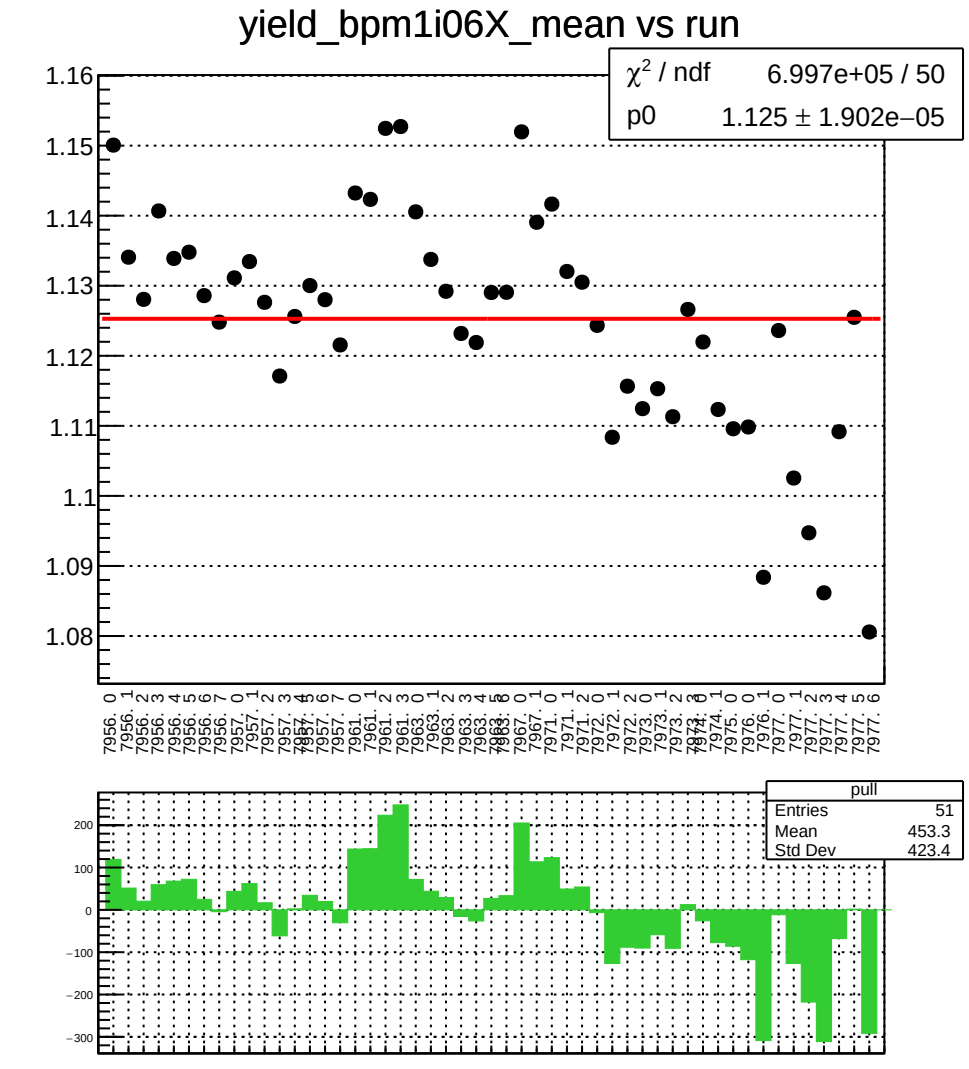
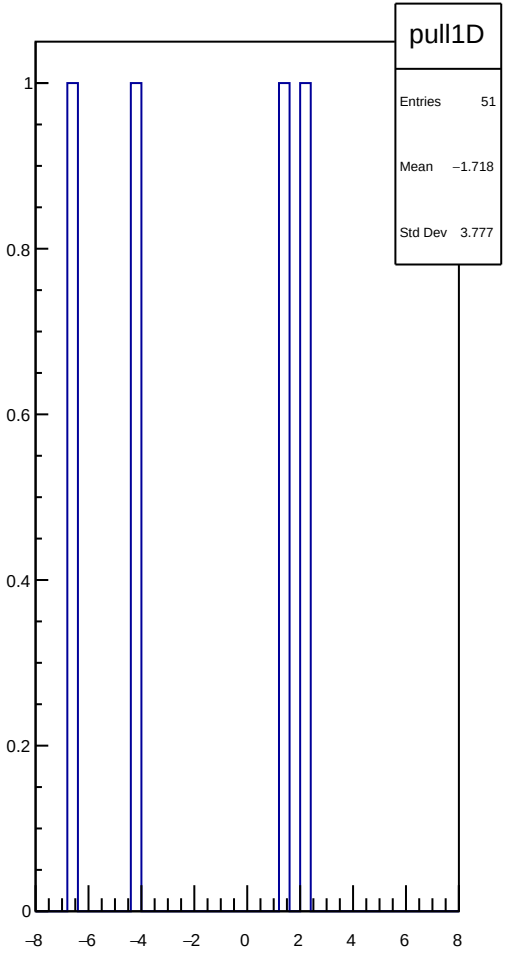
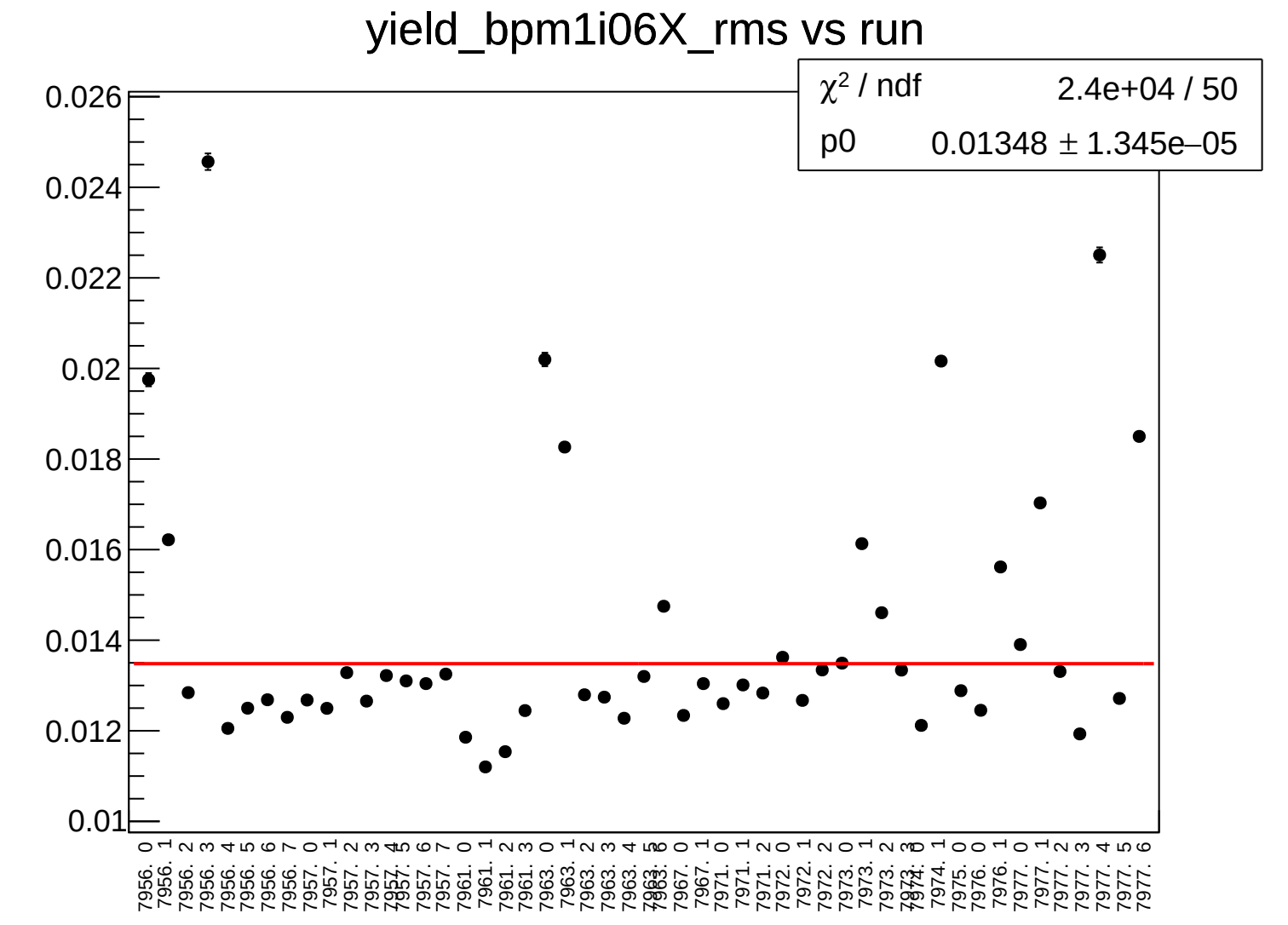
7977. 5
7977. 6


yield_bpm1i06X_mean vs run
χ² / ndf 6.997e+05 / 50
p0 1.125 ± 1.902e−05
1.16
1.15
1.14
1.13
1.12
1.11
1.1
1.09
1.08
pull
Entries 51
Mean 453.3
Std Dev 423.4
200
100
0
−100
−200
−300


pull1D
Entries 51
Mean −1.718
Std Dev 3.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i06X_rms vs run
χ² / ndf 2.4e+04 / 50
p0 0.01348 ± 1.345e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
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
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7976. 0
7976. 1
7977. 0
7977. 1
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7977. 3
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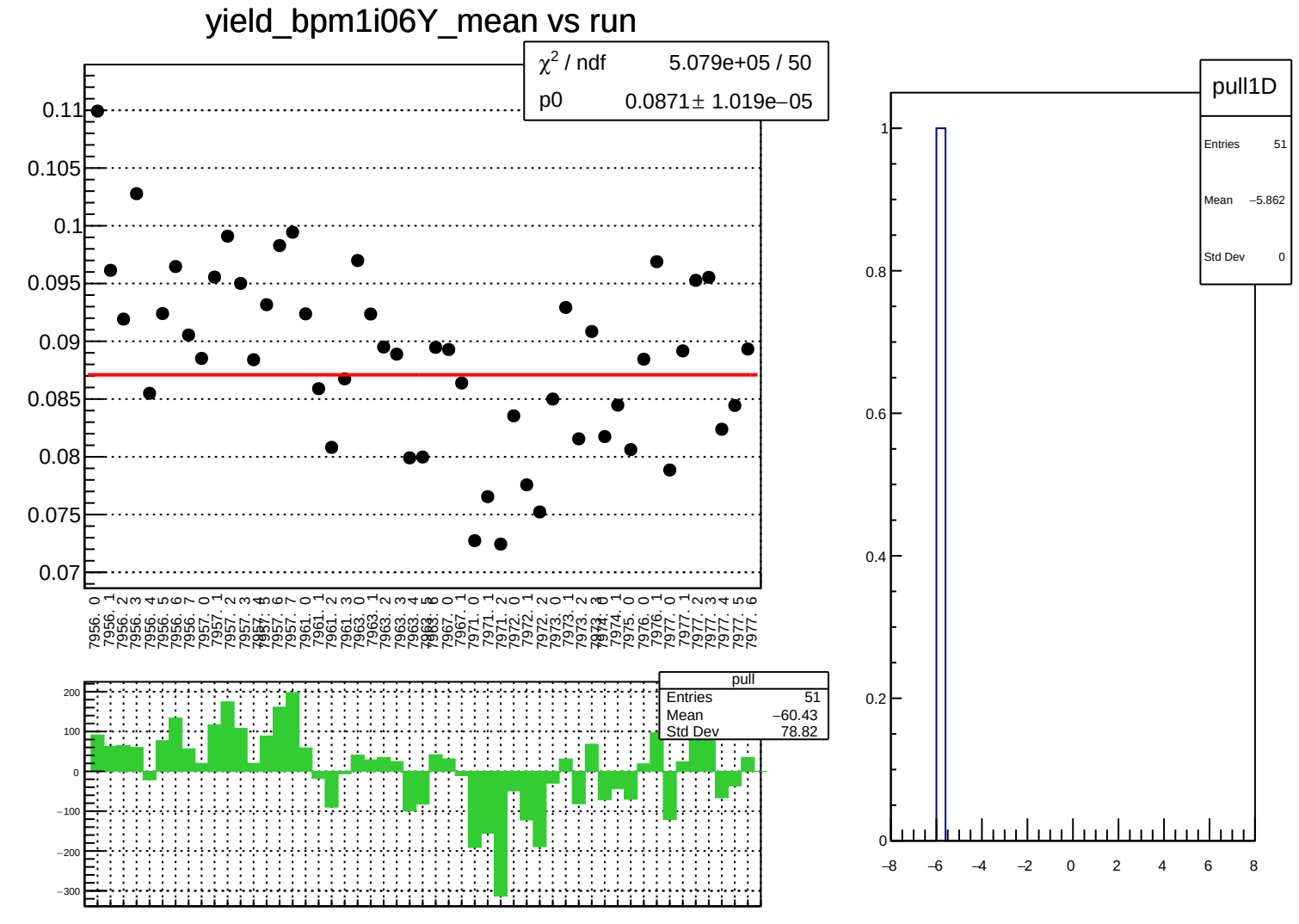
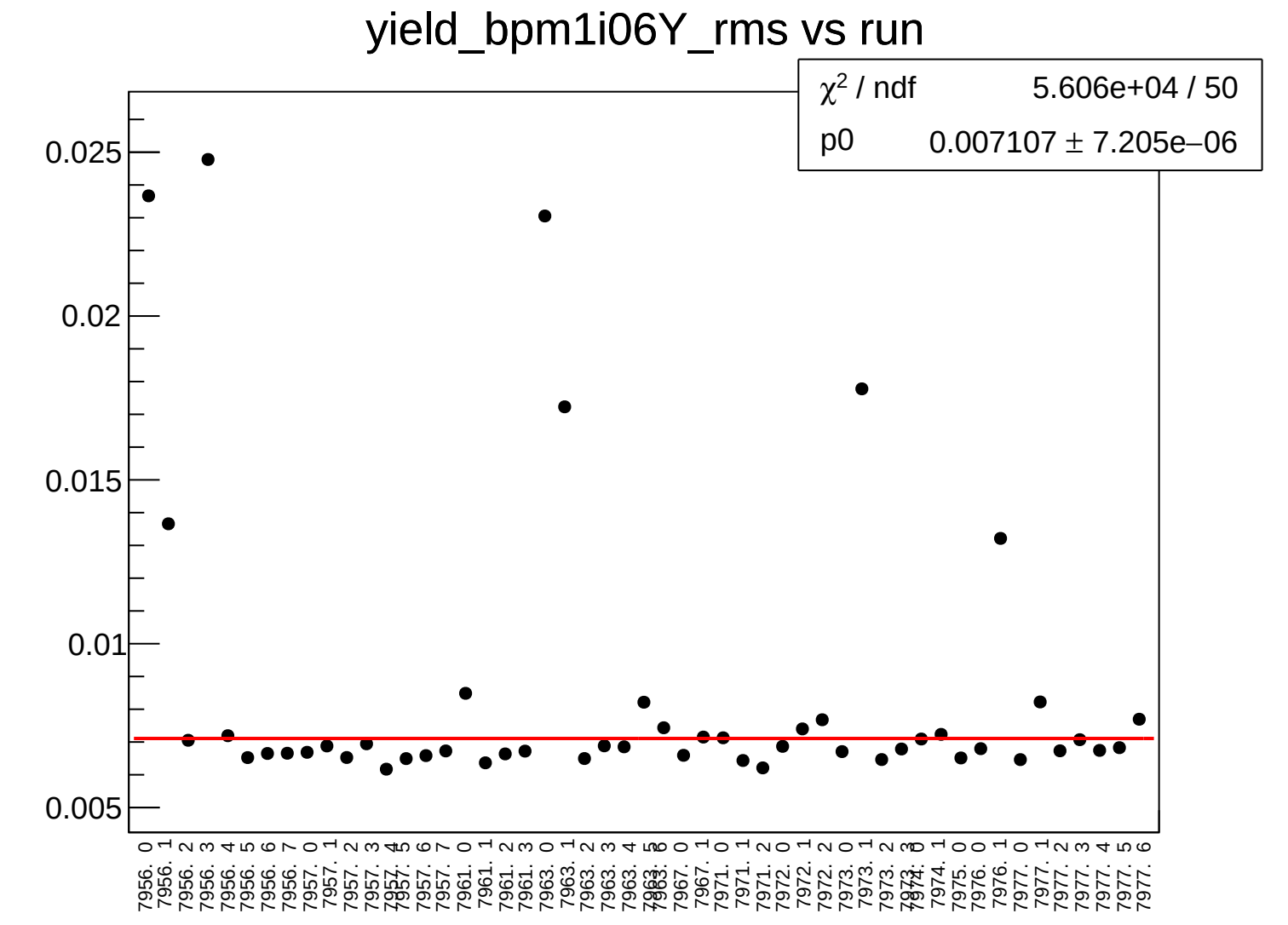
7977. 5
7977. 6


yield_bpm1i06Y_mean vs run
χ² / ndf 5.079e+05 / 50
p0 0.0871 ± 1.019e−05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
pull
Entries 51
Mean −60.43
Std Dev 78.82
200
100
0
−100
−200
−300
pull1D
Entries 51
Mean −5.862
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm1i06Y_rms vs run
χ² / ndf 5.606e+04 / 50
p0 0.007107 ± 7.205e−06
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
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7976. 0
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7977. 0
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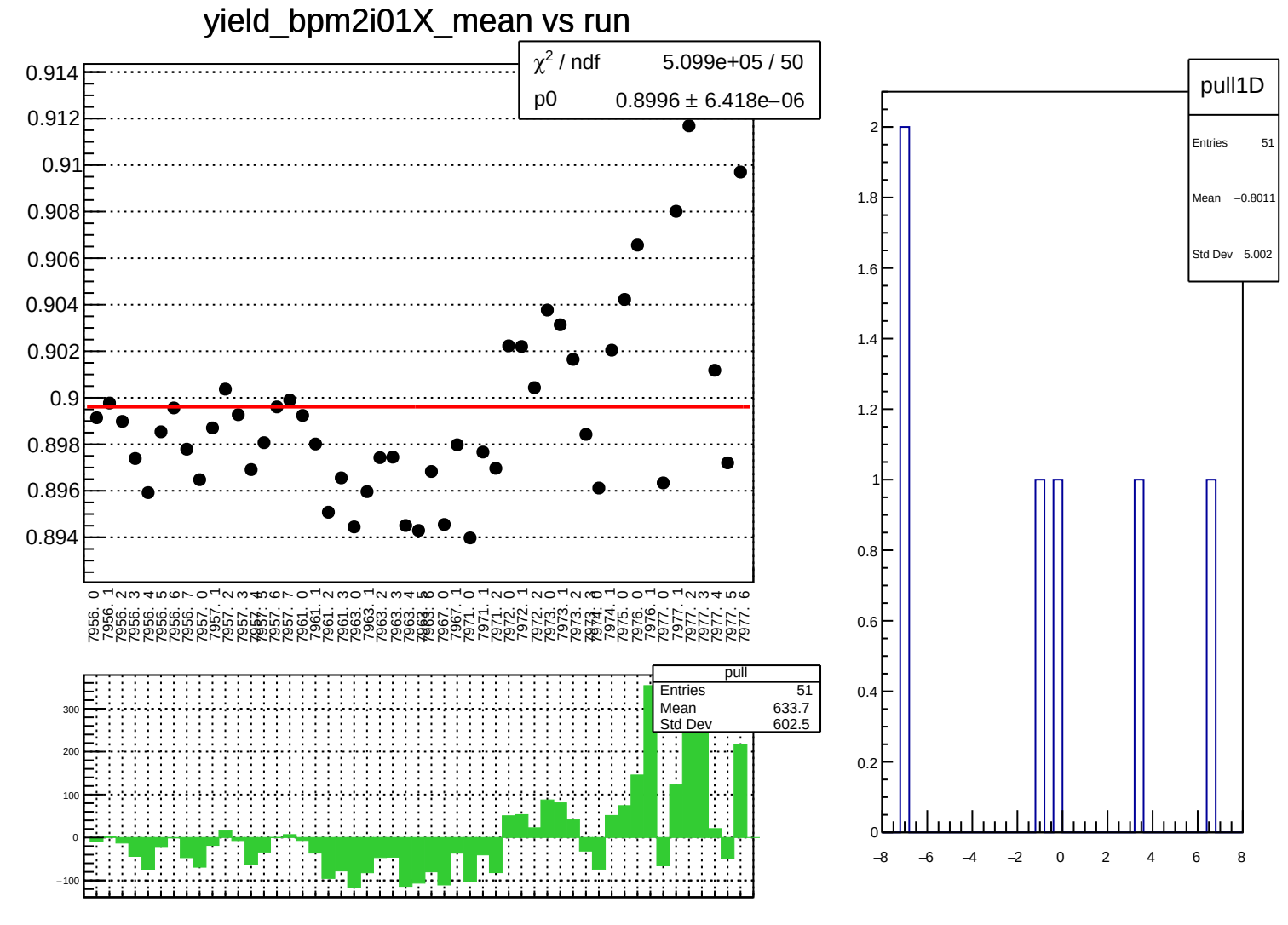
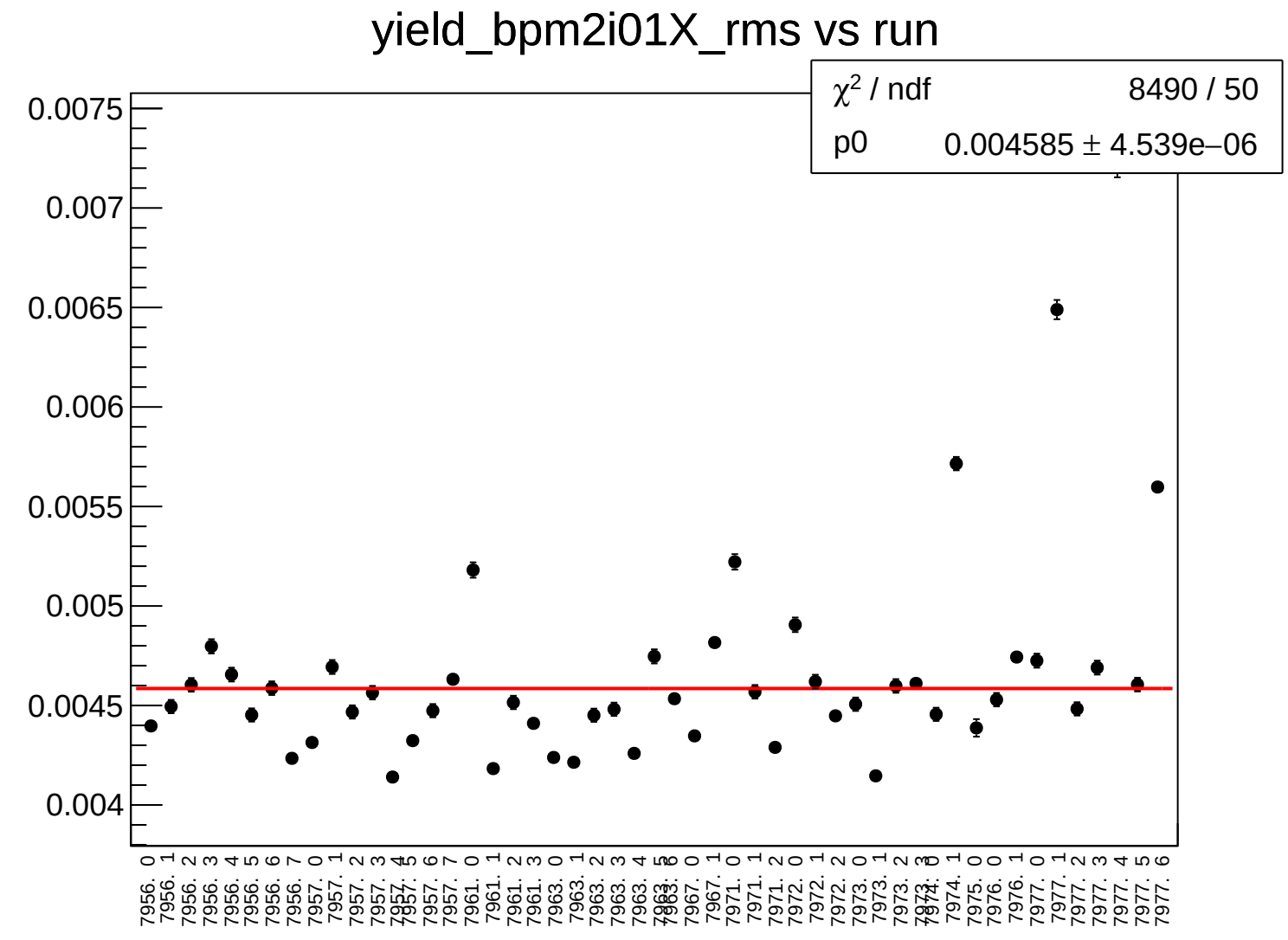
7977. 5
7977. 6


yield_bpm2i01X_mean vs run
χ² / ndf 5.099e+05 / 50
p0 0.8996 ± 6.418e−06
pull
Entries 51
Mean 633.7
Std Dev 602.5
pull1D
Entries 51
Mean −0.8011
Std Dev 5.002


yield_bpm2i01X_rms vs run
χ² / ndf 8490 / 50
p0 0.004585 ± 4.539e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
7956. 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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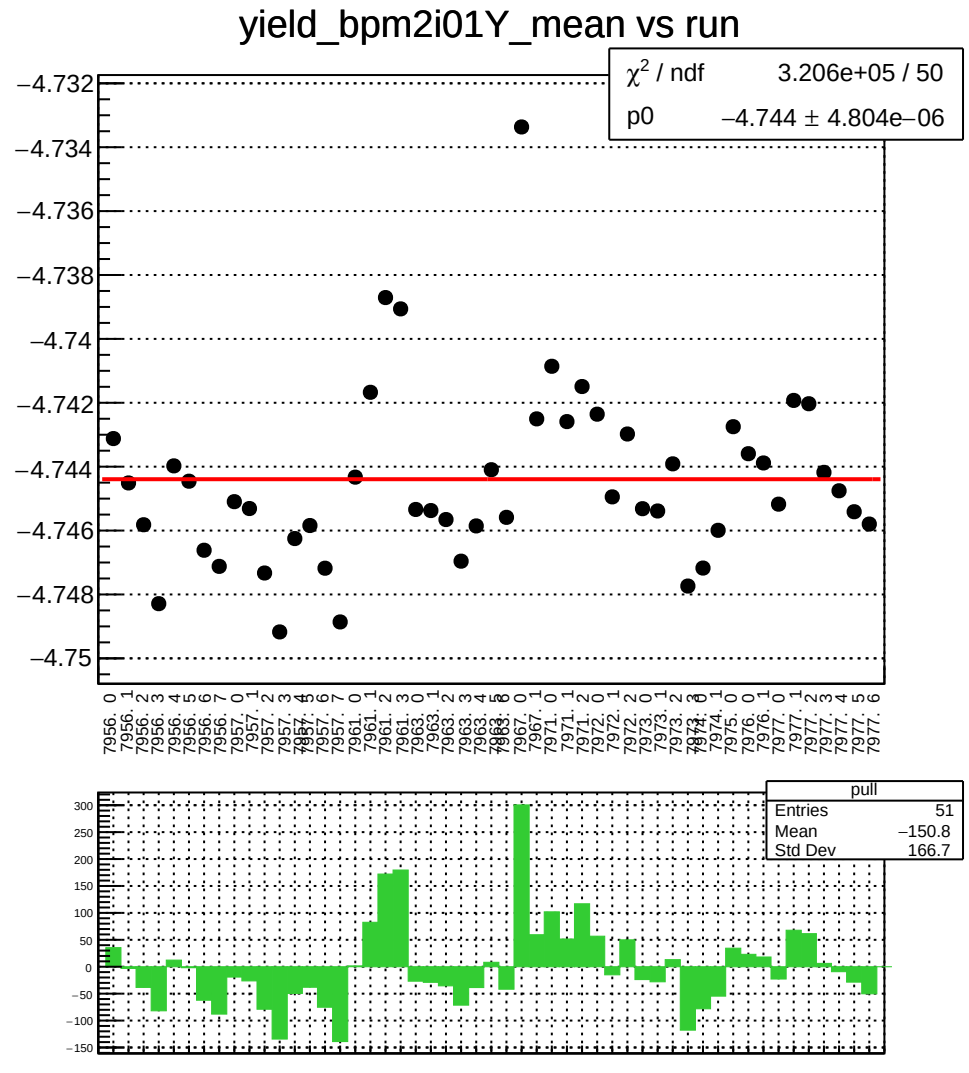
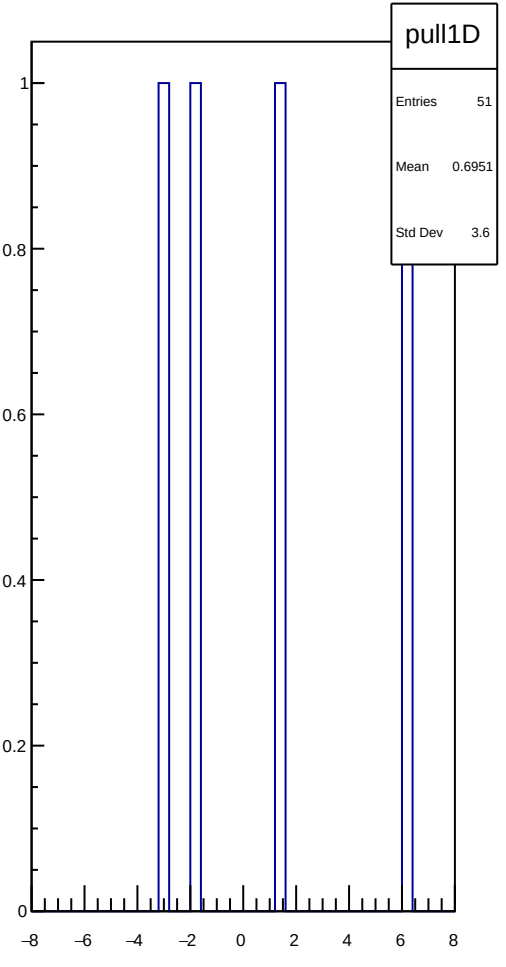
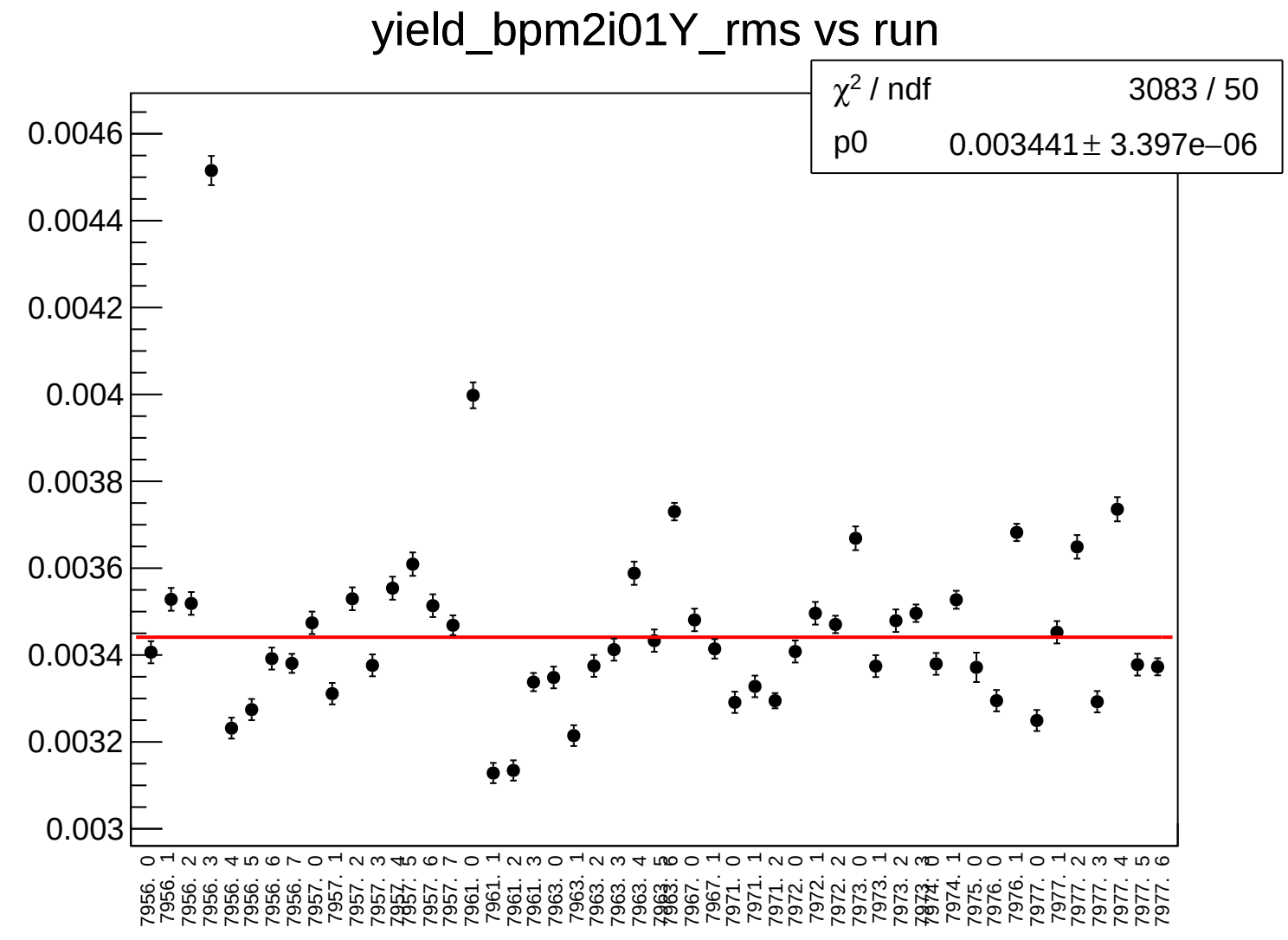
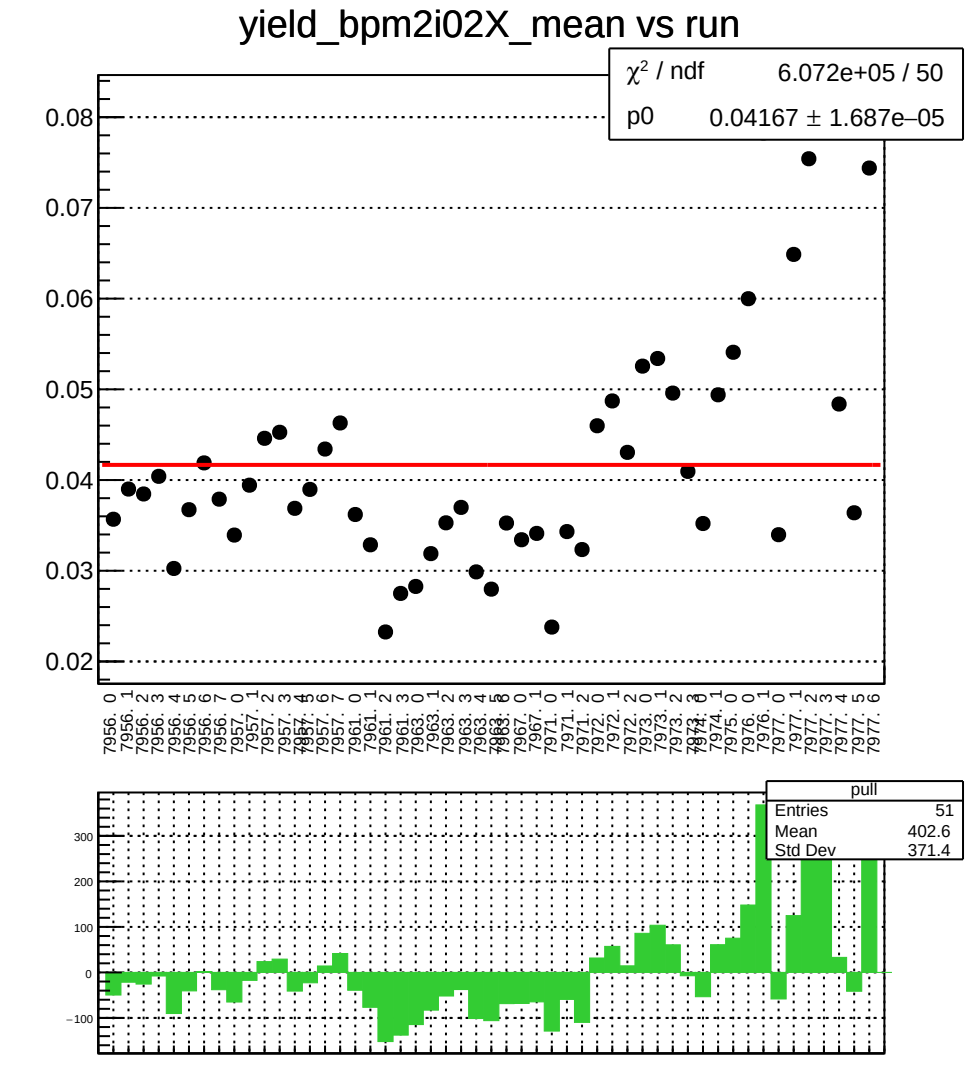
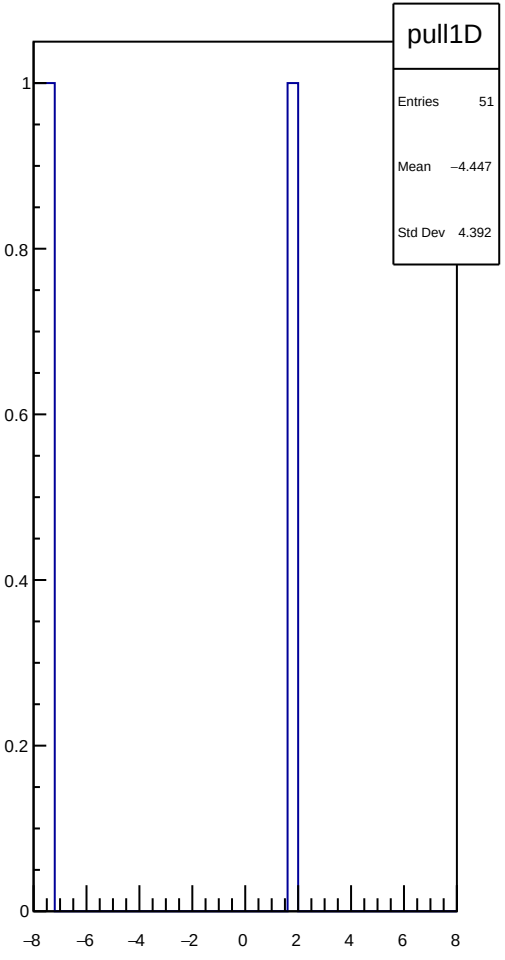
7977. 5
7977. 6

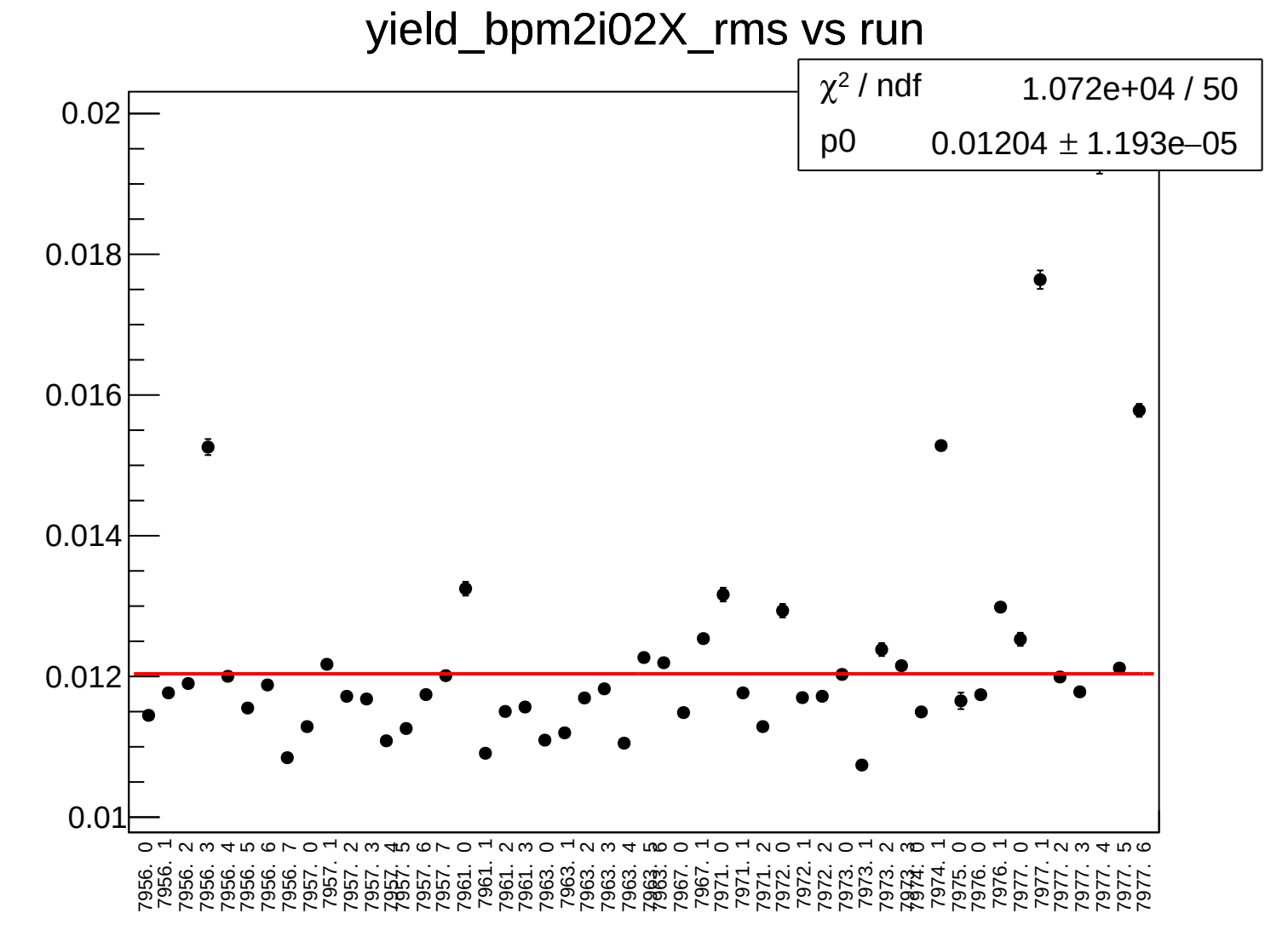

yield_bpm2i01Y_mean vs run
χ² / ndf 3.206e+05 / 50
p0 −4.744 ± 4.804e−06
−4.732
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
−4.746
−4.748
−4.75
pull
Entries 51
Mean −150.8
Std Dev 166.7
300
250
200
150
100
50
0
−50
−100
−150

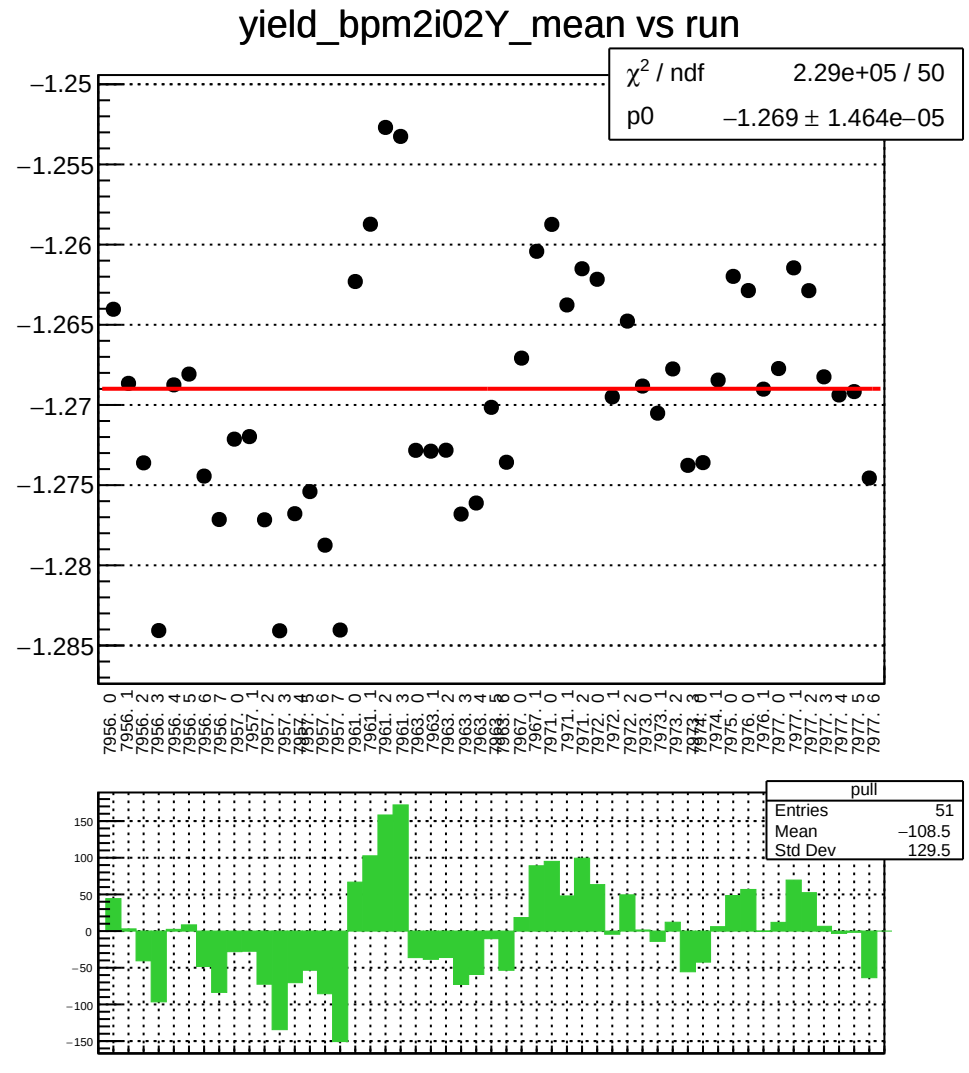

pull1D
Entries 51
Mean 0.6951
Std Dev 3.6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

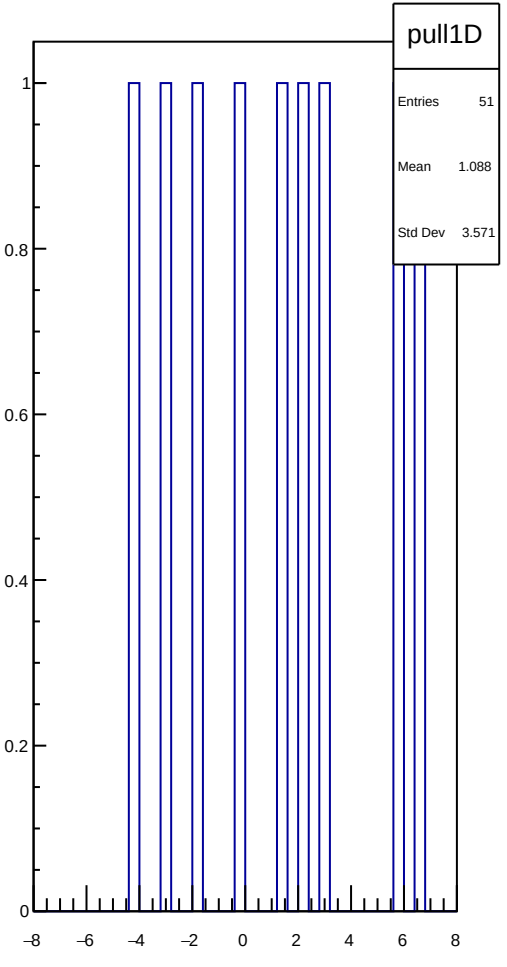

yield_bpm2i01Y_rms vs run
χ² / ndf 3083 / 50
p0 0.003441 ± 3.397e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 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

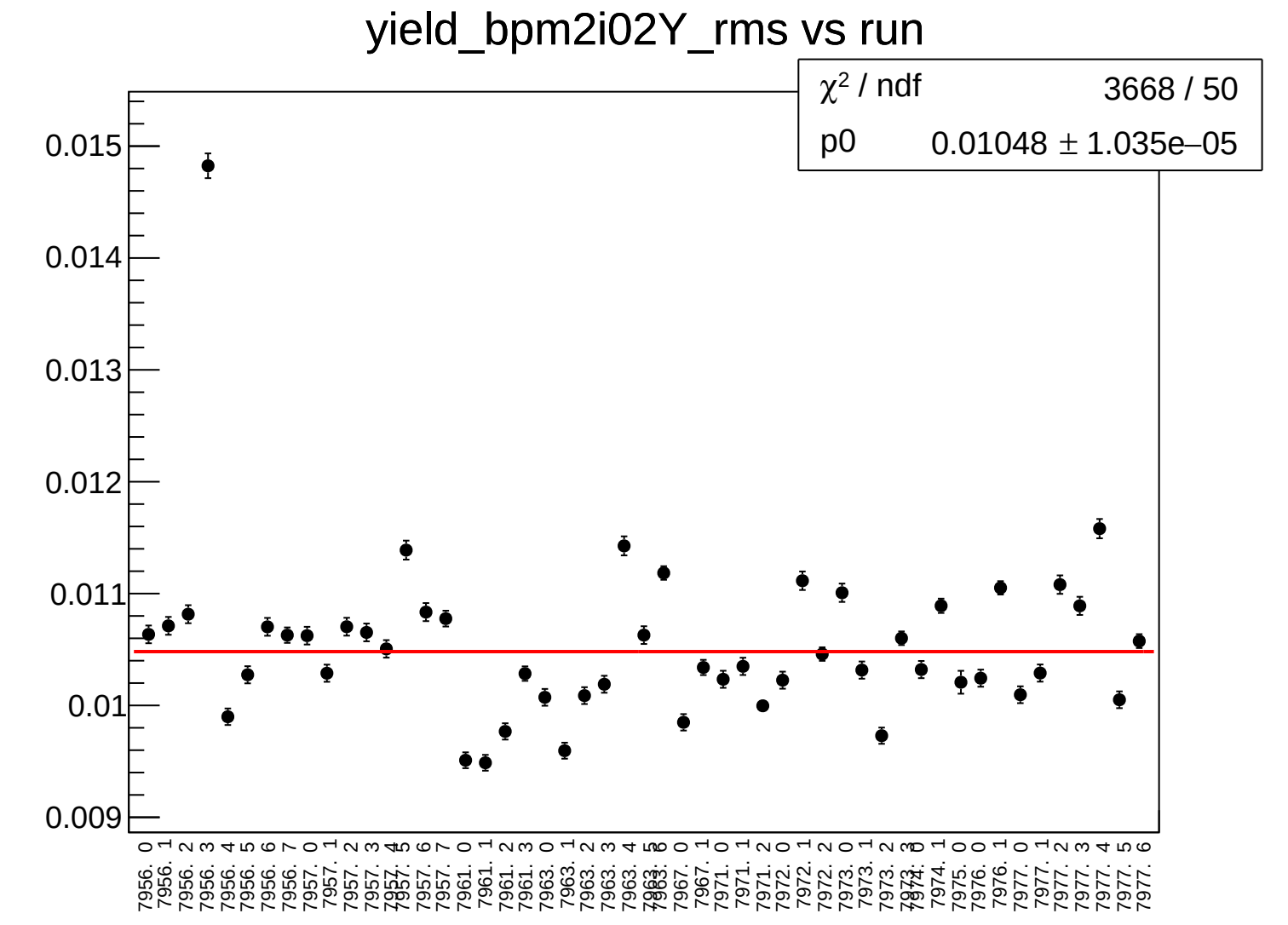

yield_bpm2i02X_mean vs run
χ² / ndf 6.072e+05 / 50
p0 0.04167 ± 1.687e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 51
Mean 402.6
Std Dev 371.4
300
200
100
0
−100


pull1D
Entries 51
Mean −4.447
Std Dev 4.392
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02X_rms vs run
χ² / ndf 1.072e+04 / 50
p0 0.01204 ± 1.193e–05
0.02
0.018
0.016
0.014
0.012
0.01


yield_bpm2i02Y_mean vs run
χ² / ndf 2.29e+05 / 50
p0 −1.269 ± 1.464e−05
−1.25
−1.255
−1.26
−1.265
−1.27
−1.275
−1.28
−1.285
pull
Entries 51
Mean −108.5
Std Dev 129.5
150
100
50
0
−50
−100
−150


pull1D
Entries 51
Mean 1.088
Std Dev 3.571
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02Y_rms vs run
χ² / ndf 3668 / 50
p0 0.01048 ± 1.035e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
7956. 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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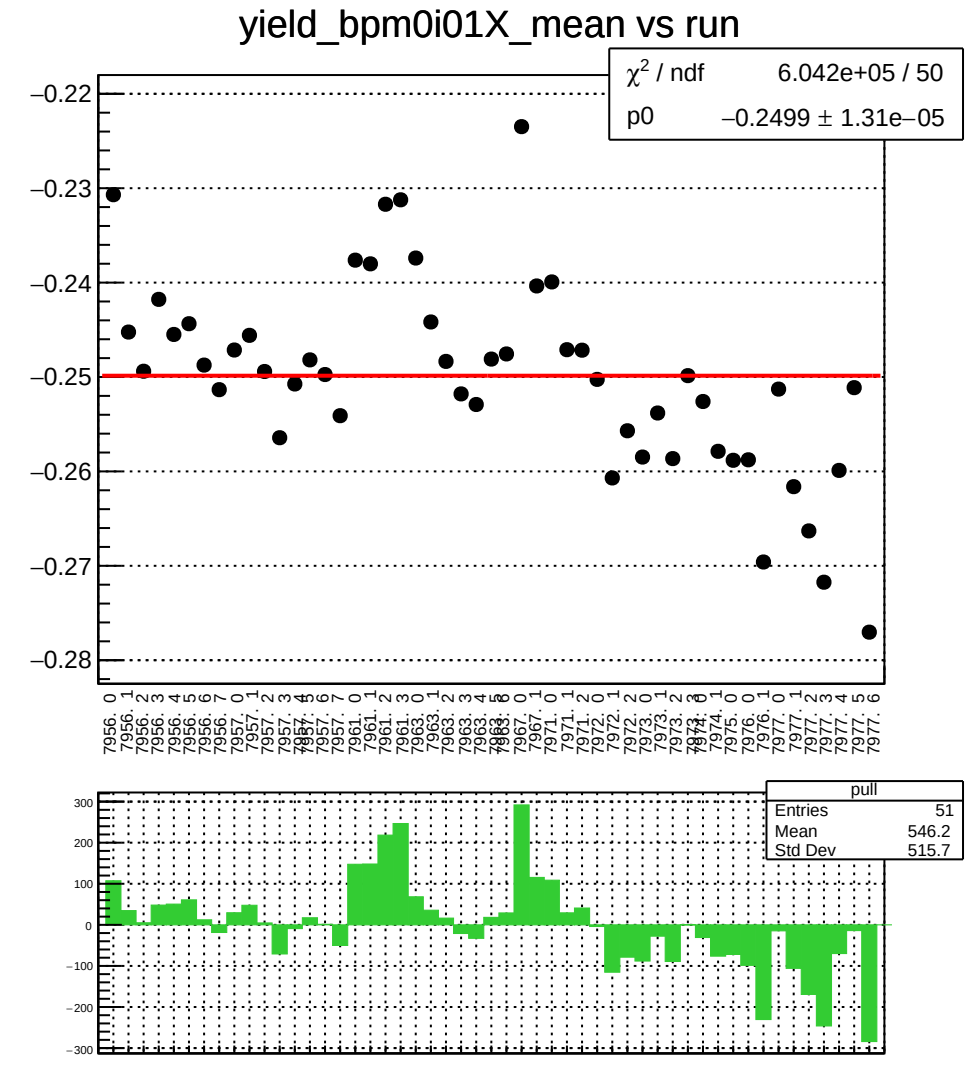
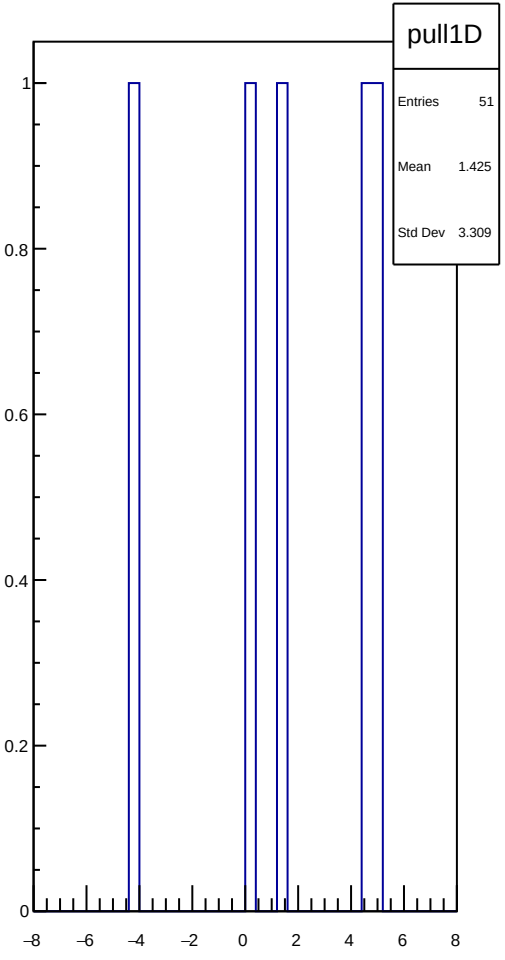
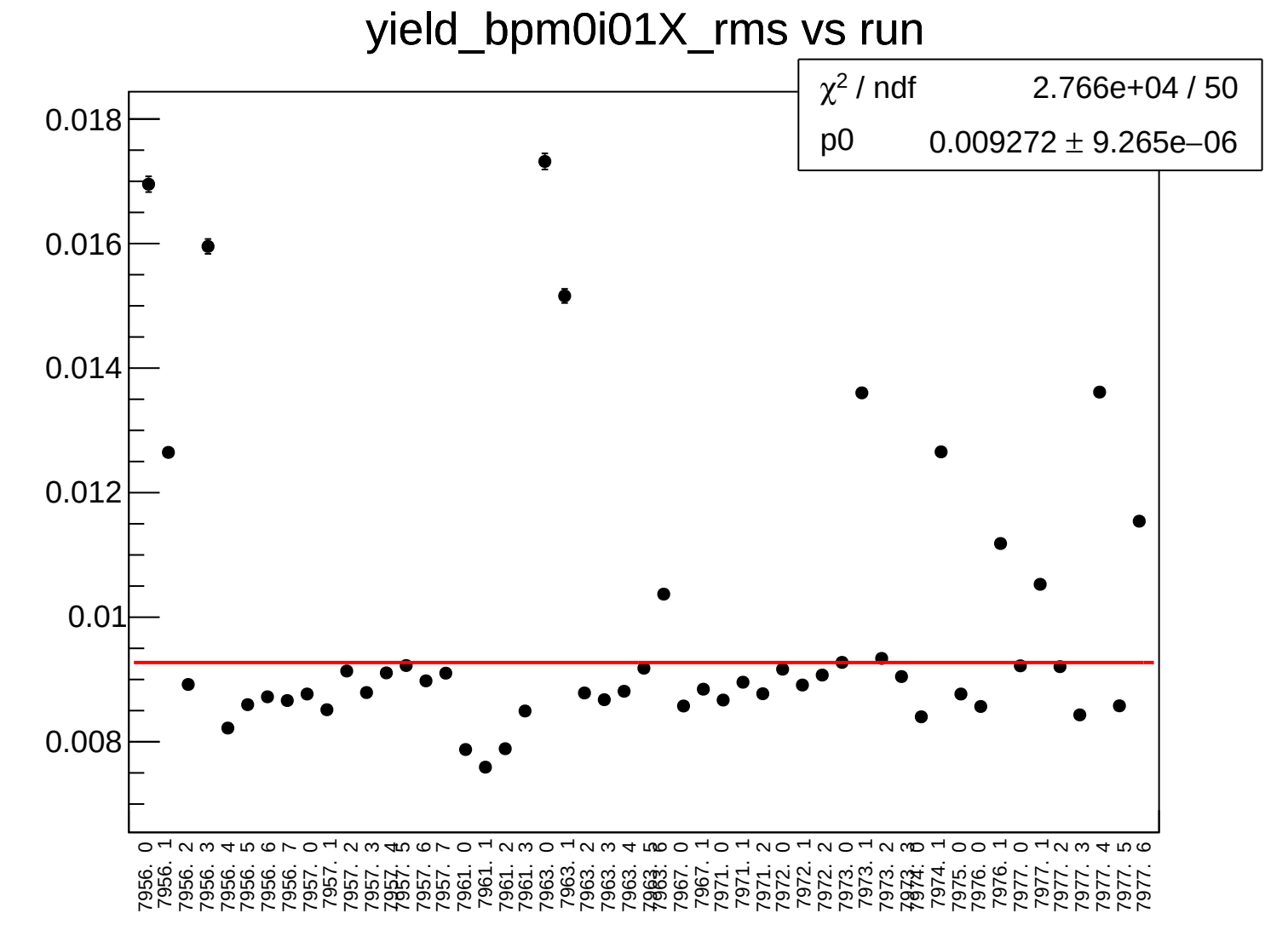
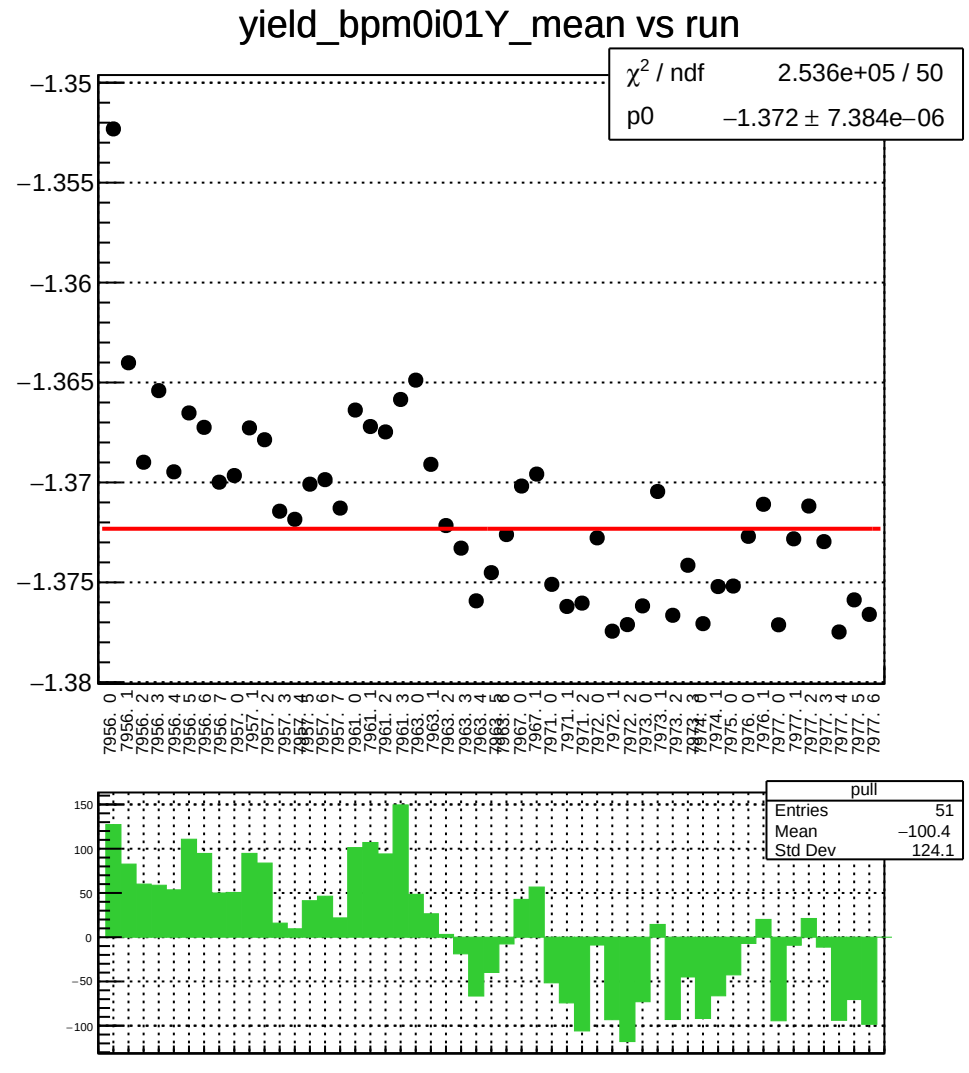
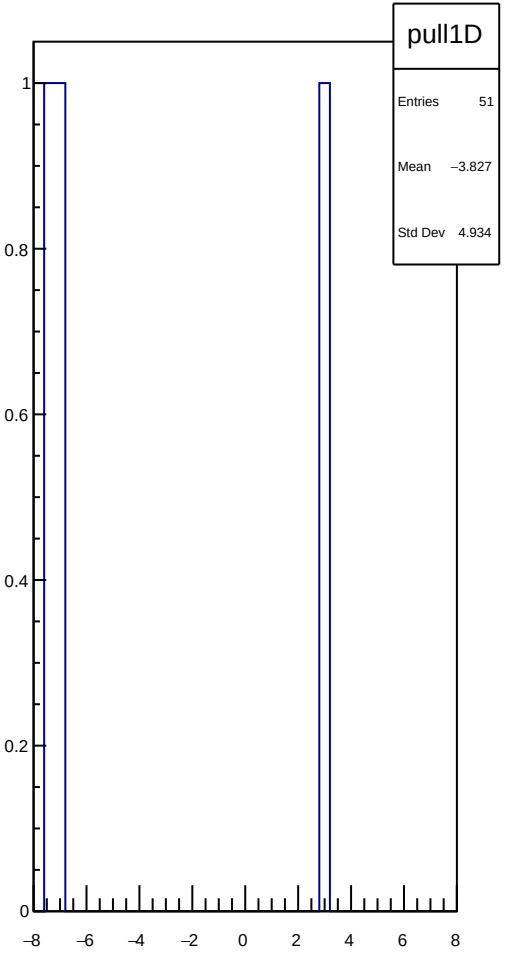
7977. 3
7977. 4
7977. 5
7977. 6

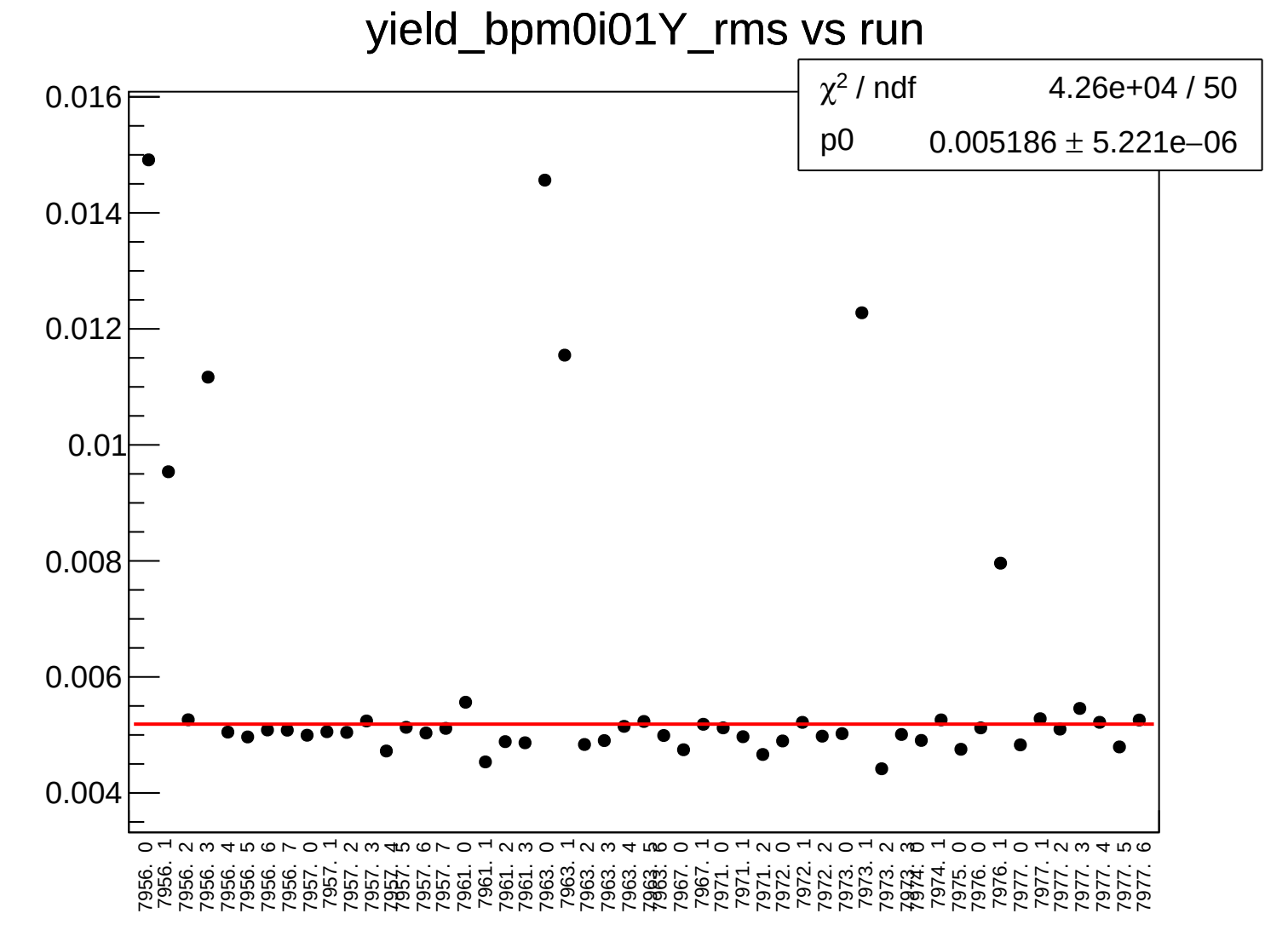

yield_bpm0i01X_mean vs run
χ² / ndf 6.042e+05 / 50
p0 −0.2499 ± 1.31e−05
pull
Entries 51
Mean 546.2
Std Dev 515.7

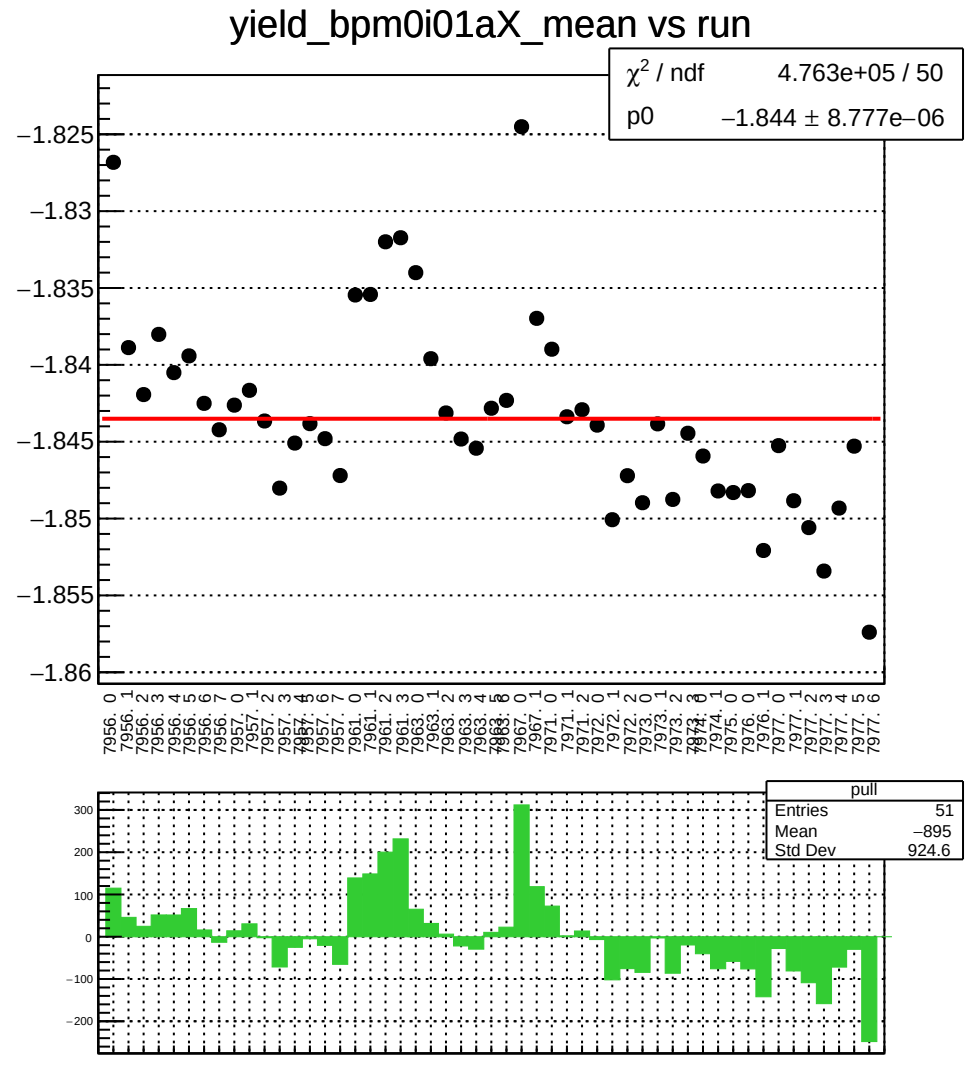

pull1D
Entries 51
Mean 1.425
Std Dev 3.309

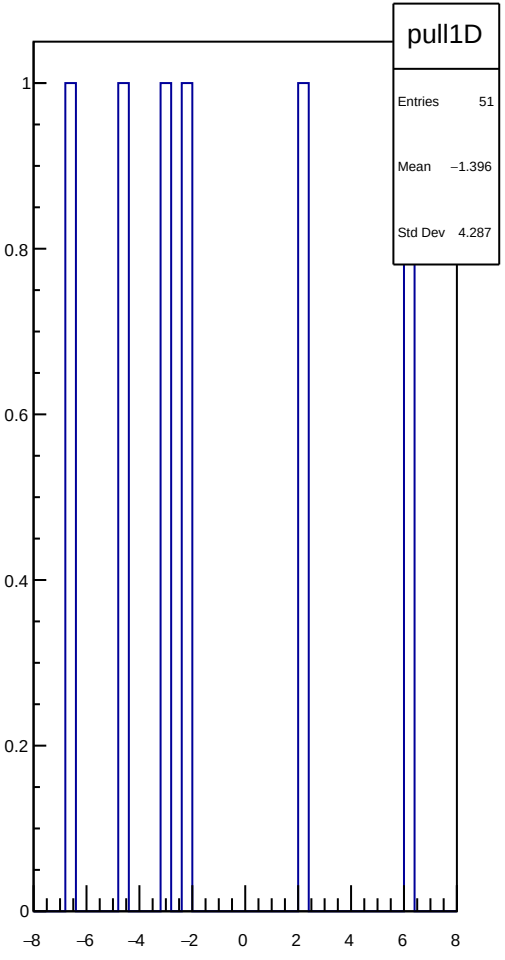

yield_bpm0i01X_rms vs run
χ² / ndf 2.766e+04 / 50
p0 0.009272 ± 9.265e−06
0.018
0.016
0.014
0.012
0.01
0.008
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
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

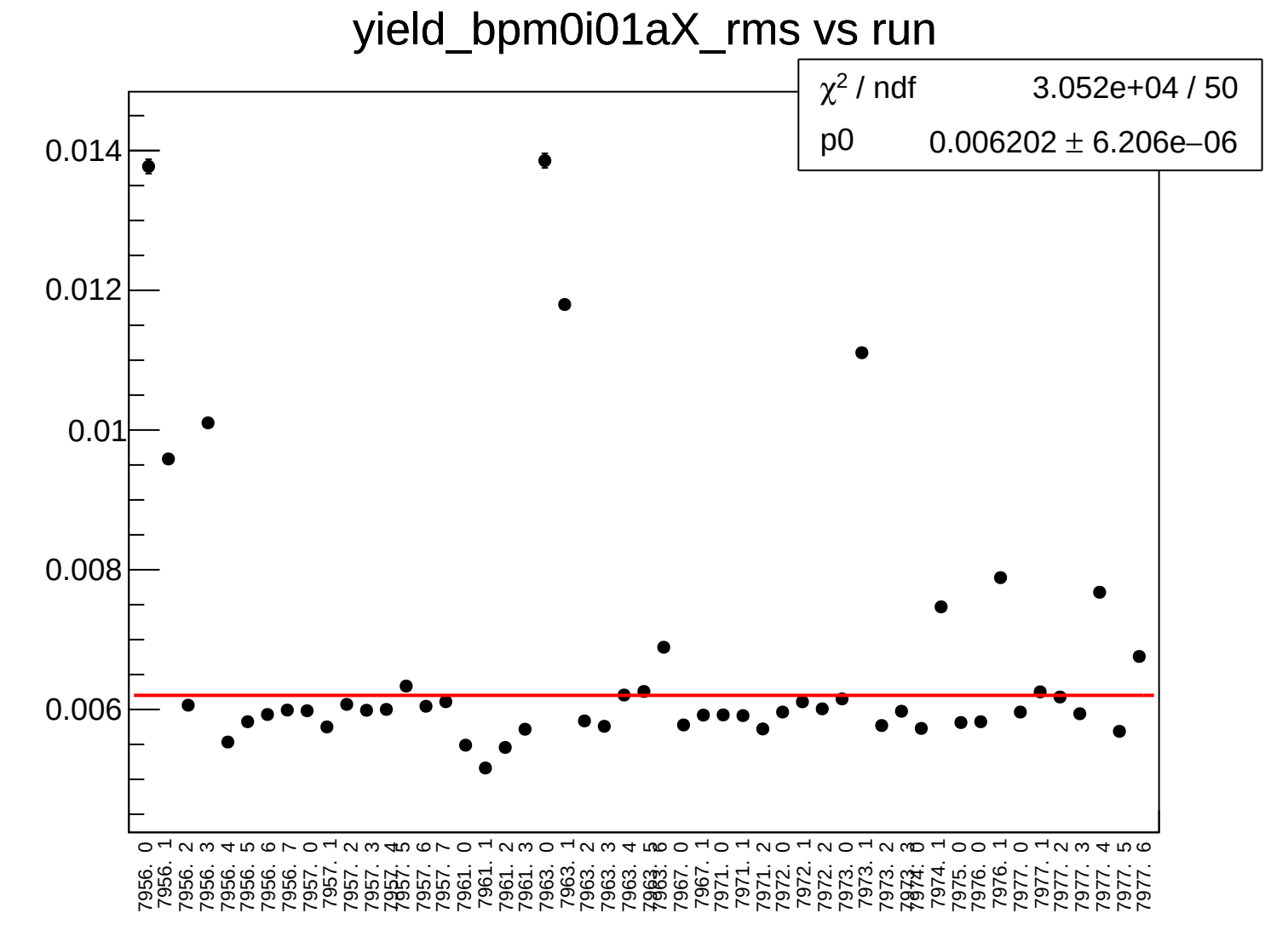

yield_bpm0i01Y_mean vs run
χ² / ndf 2.536e+05 / 50
p0 −1.372 ± 7.384e−06
−1.35
−1.355
−1.36
−1.365
−1.37
−1.375
−1.38
pull
Entries 51
Mean −100.4
Std Dev 124.1
150
100
50
0
−50
−100

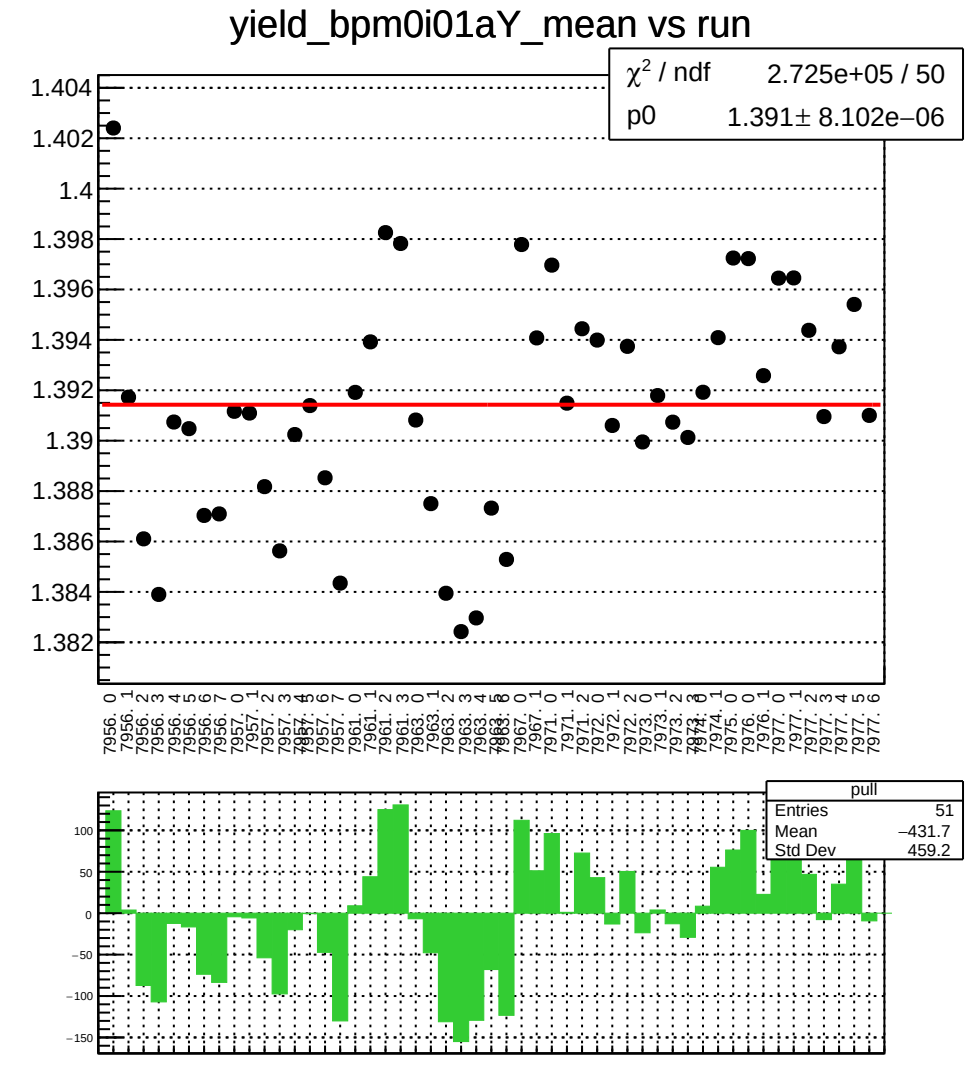

pull1D
Entries 51
Mean −3.827
Std Dev 4.934
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

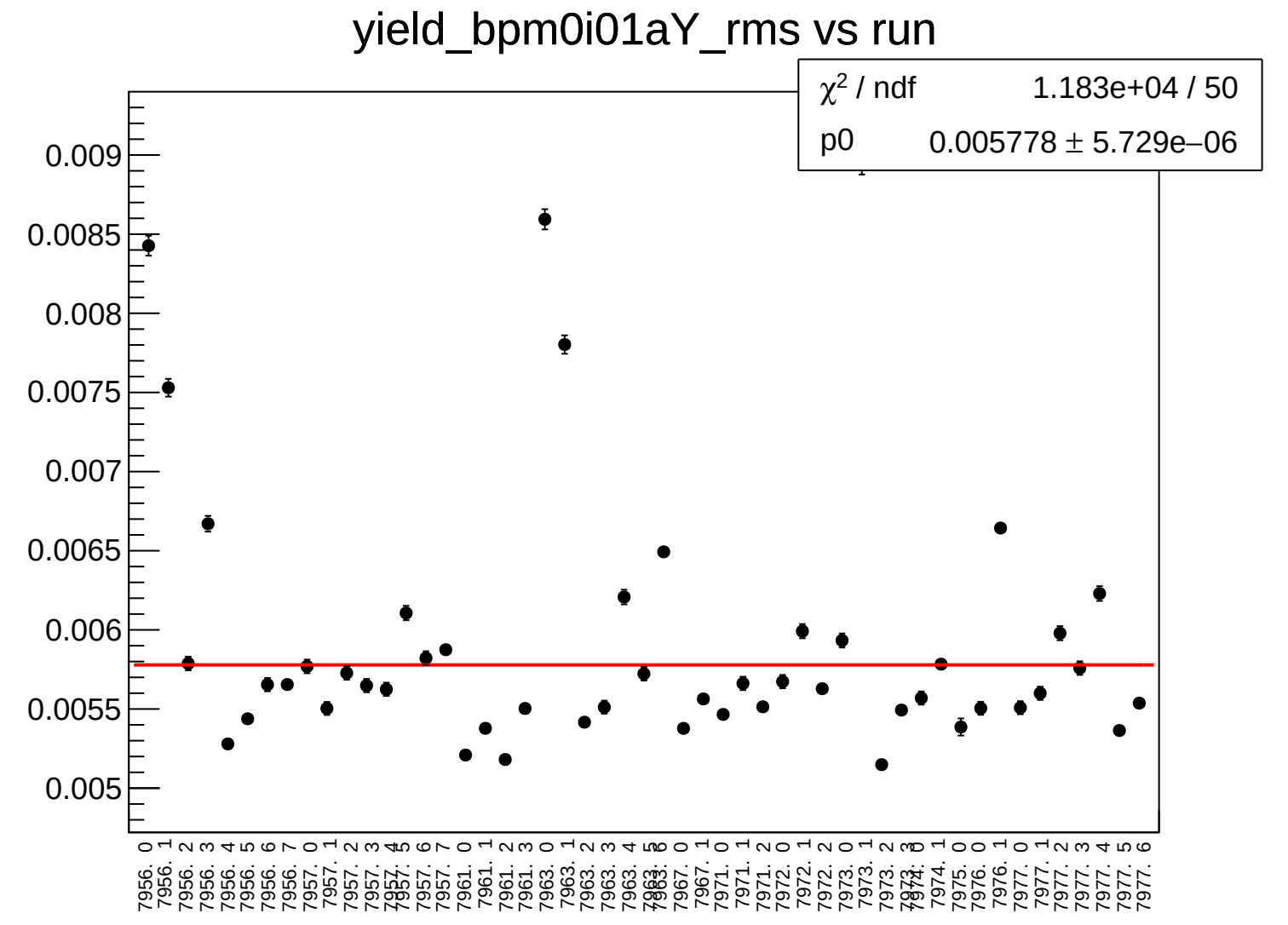

yield_bpm0i01Y_rms vs run
χ² / ndf 4.26e+04 / 50
p0 0.005186 ± 5.221e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 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

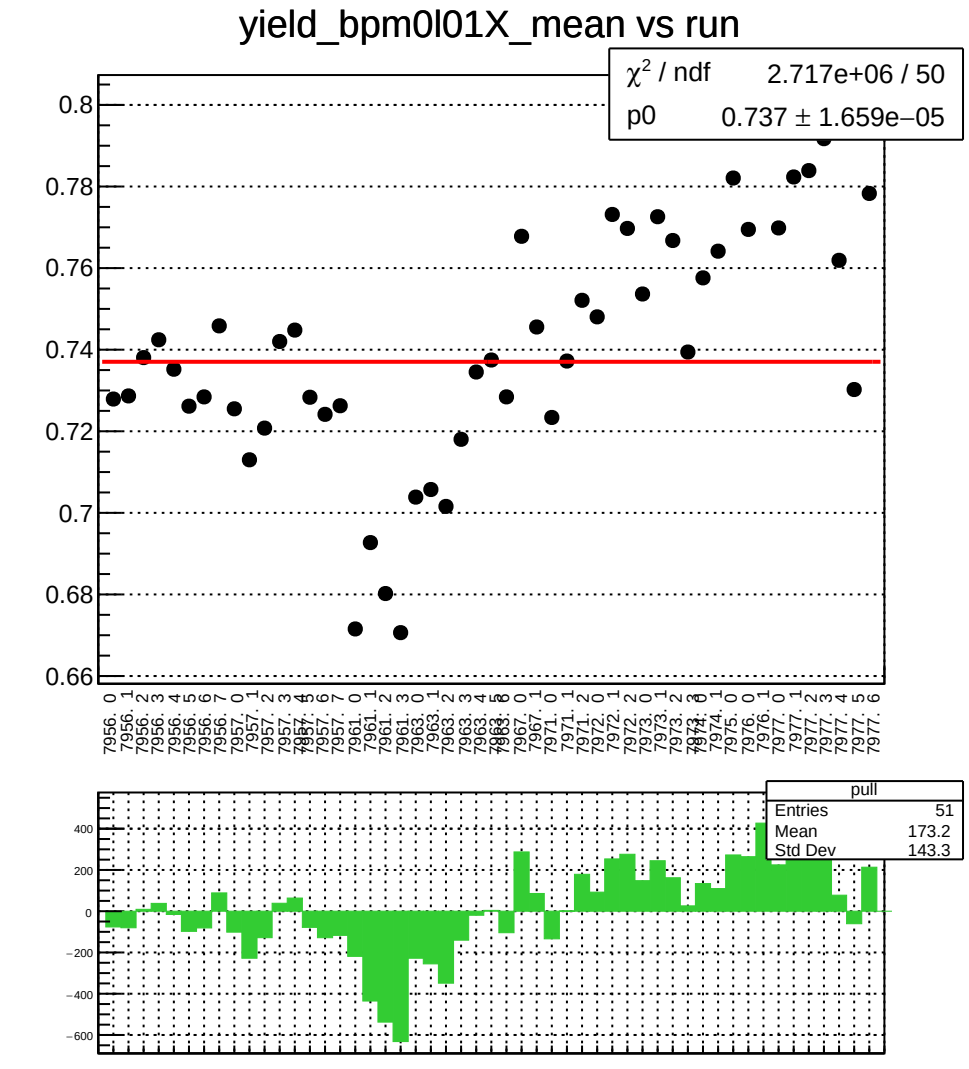

yield_bpm0i01aX_mean vs run
χ² / ndf 4.763e+05 / 50
p0 −1.844 ± 8.777e−06
−1.825
−1.83
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
pull
Entries 51
Mean −895
Std Dev 924.6
300
200
100
0
−100
−200

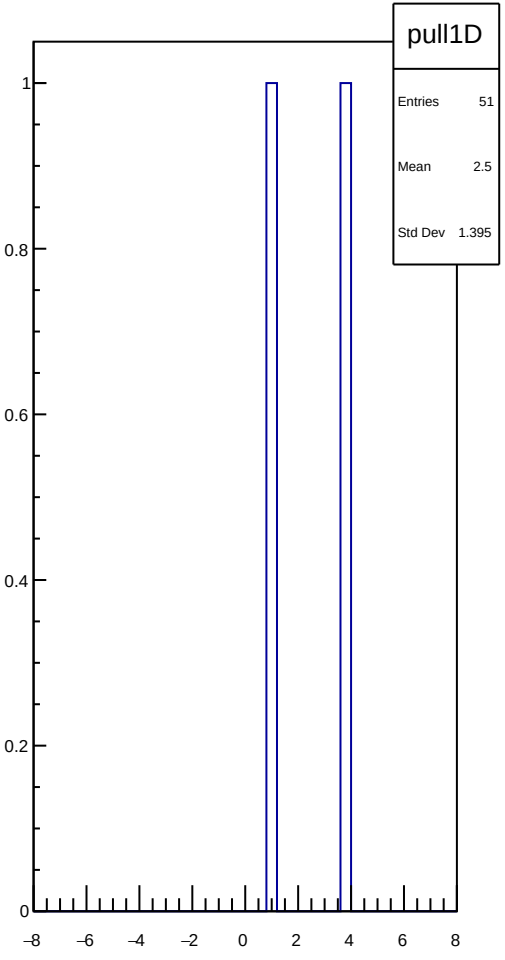

pull1D
Entries 51
Mean −1.396
Std Dev 4.287
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

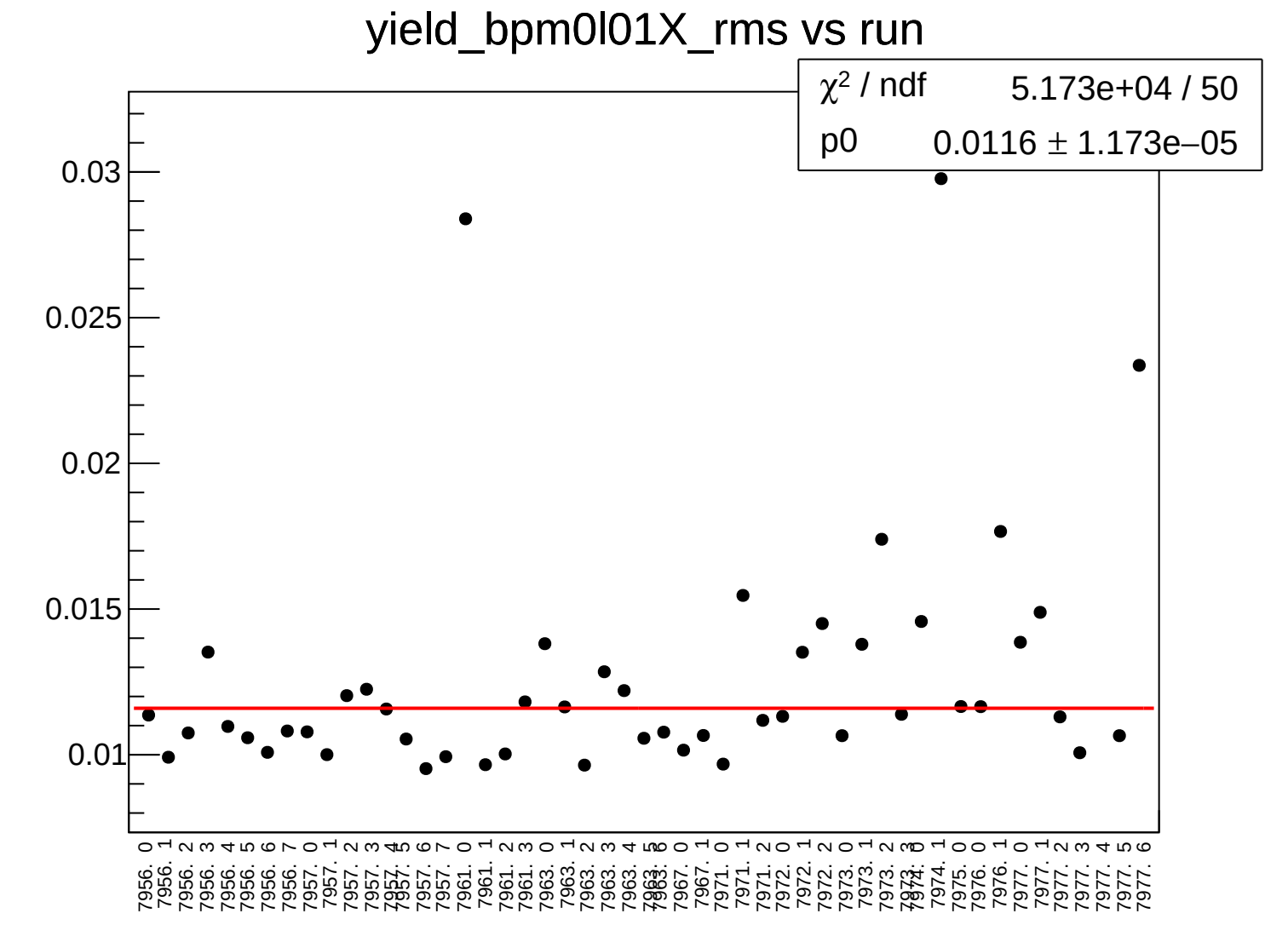

yield_bpm0i01aX_rms vs run
χ² / ndf 3.052e+04 / 50
p0 0.006202 ± 6.206e−06
0.014
0.012
0.01
0.008
0.006
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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

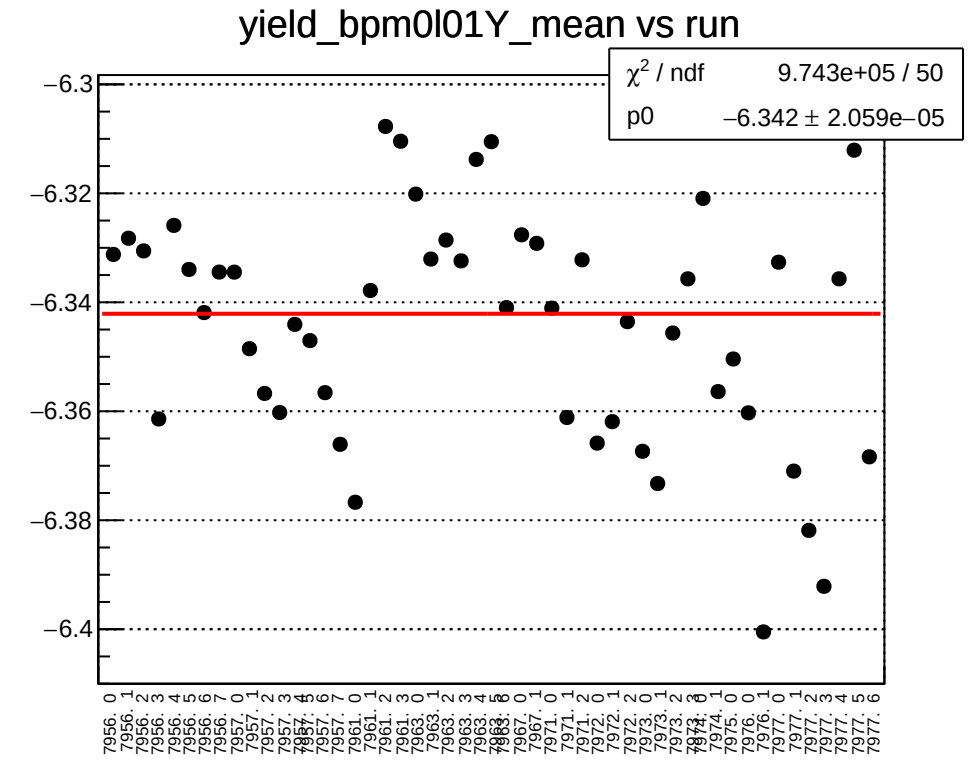

yield_bpm0i01aY_mean vs run
χ² / ndf 2.725e+05 / 50
p0 1.391± 8.102e−06
pull
Entries 51
Mean −431.7
Std Dev 459.2
pull1D
Entries 51
Mean −2.043
Std Dev 4.378

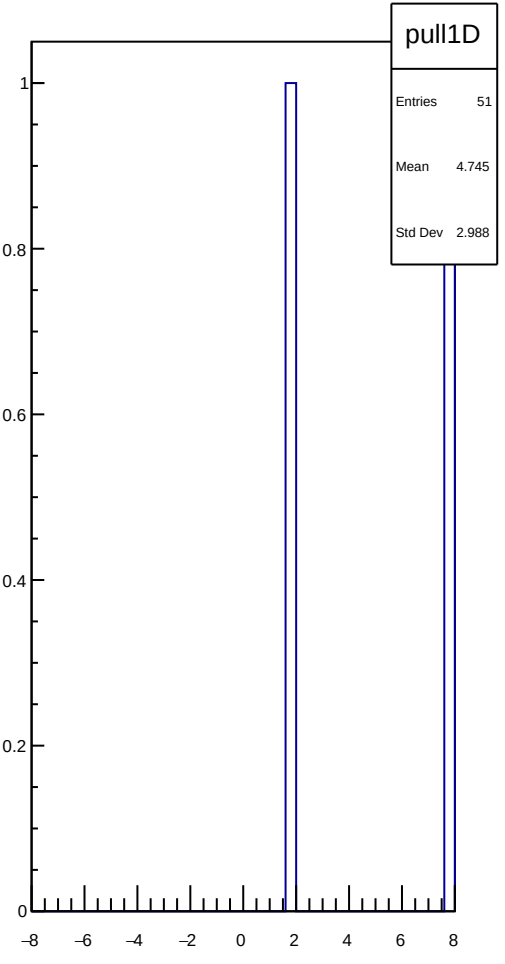

yield_bpm0i01aY_rms vs run
χ² / ndf 1.183e+04 / 50
p0 0.005778 ± 5.729e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
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

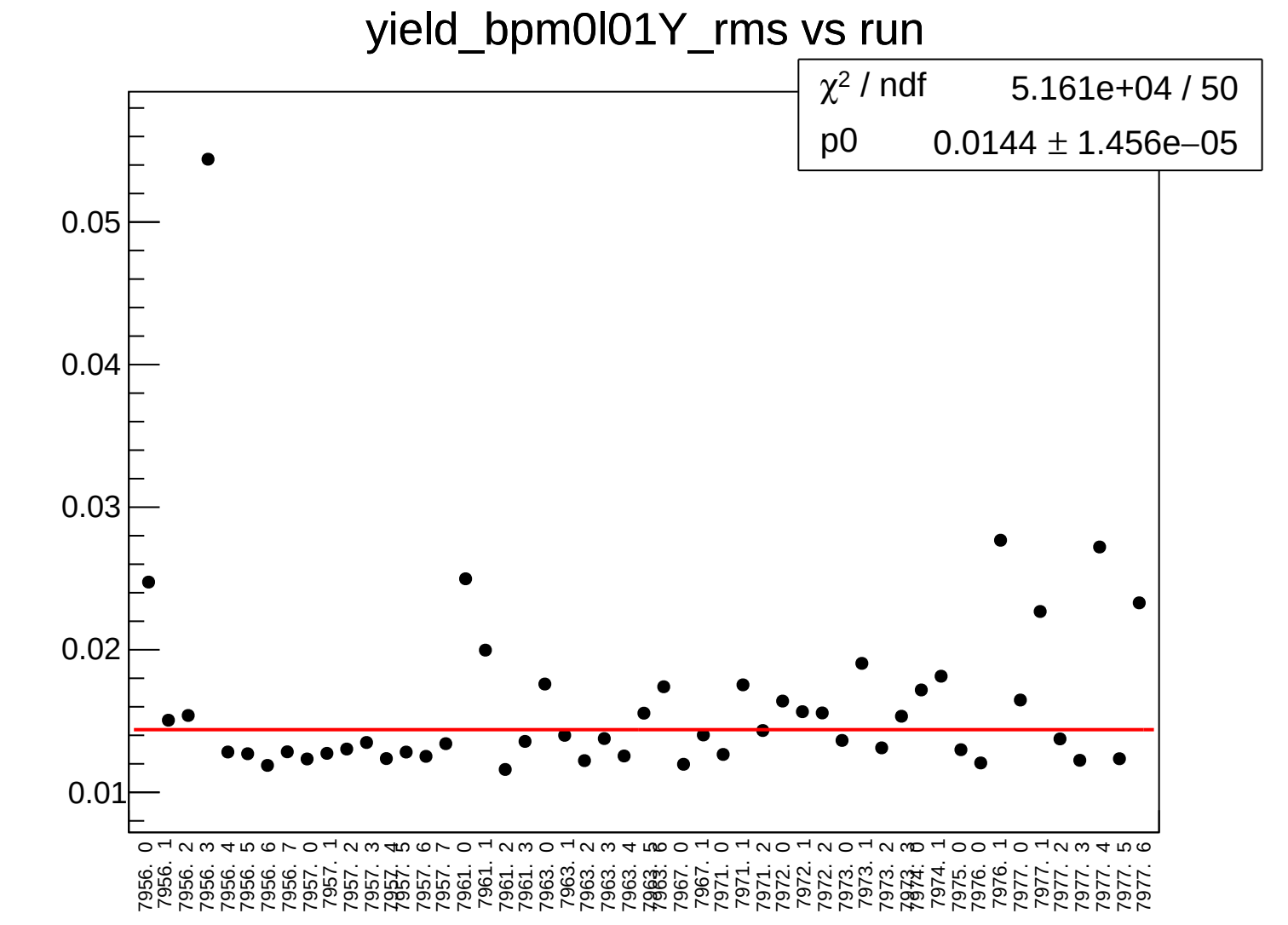

yield_bpm0l01X_mean vs run
χ² / ndf 2.717e+06 / 50
p0 0.737 ± 1.659e−05
pull
Entries 51
Mean 173.2
Std Dev 143.3

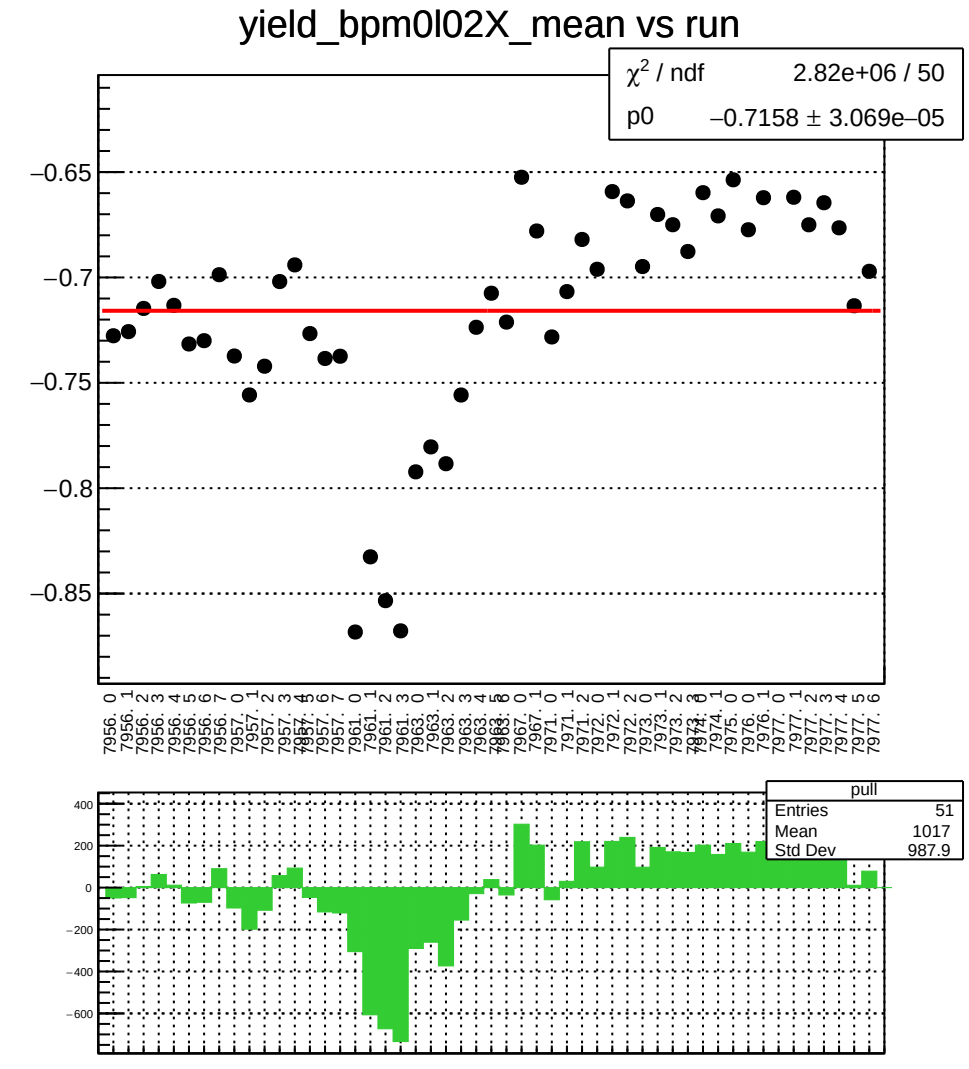

pull1D
Entries 51
Mean 2.5
Std Dev 1.395

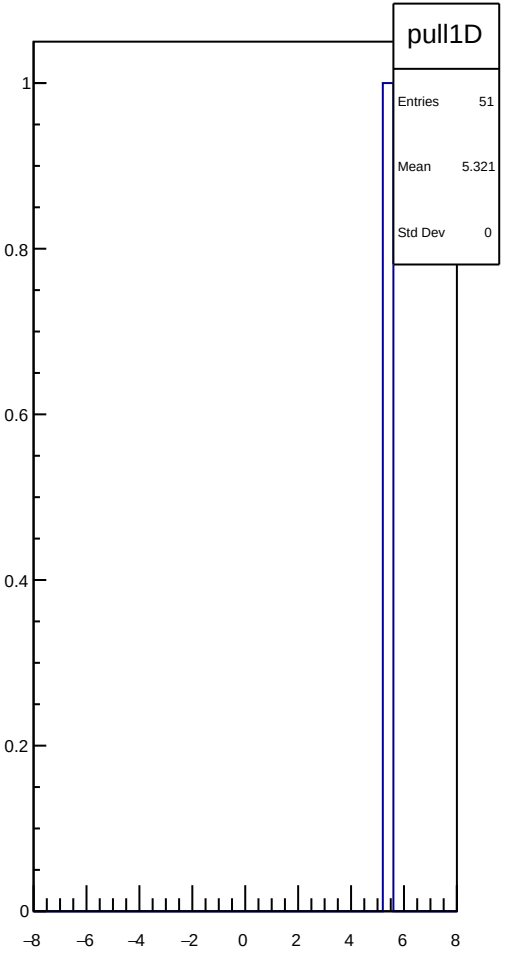

yield_bpm0l01X_rms vs run
χ² / ndf 5.173e+04 / 50
p0 0.0116 ± 1.173e−05
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971.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

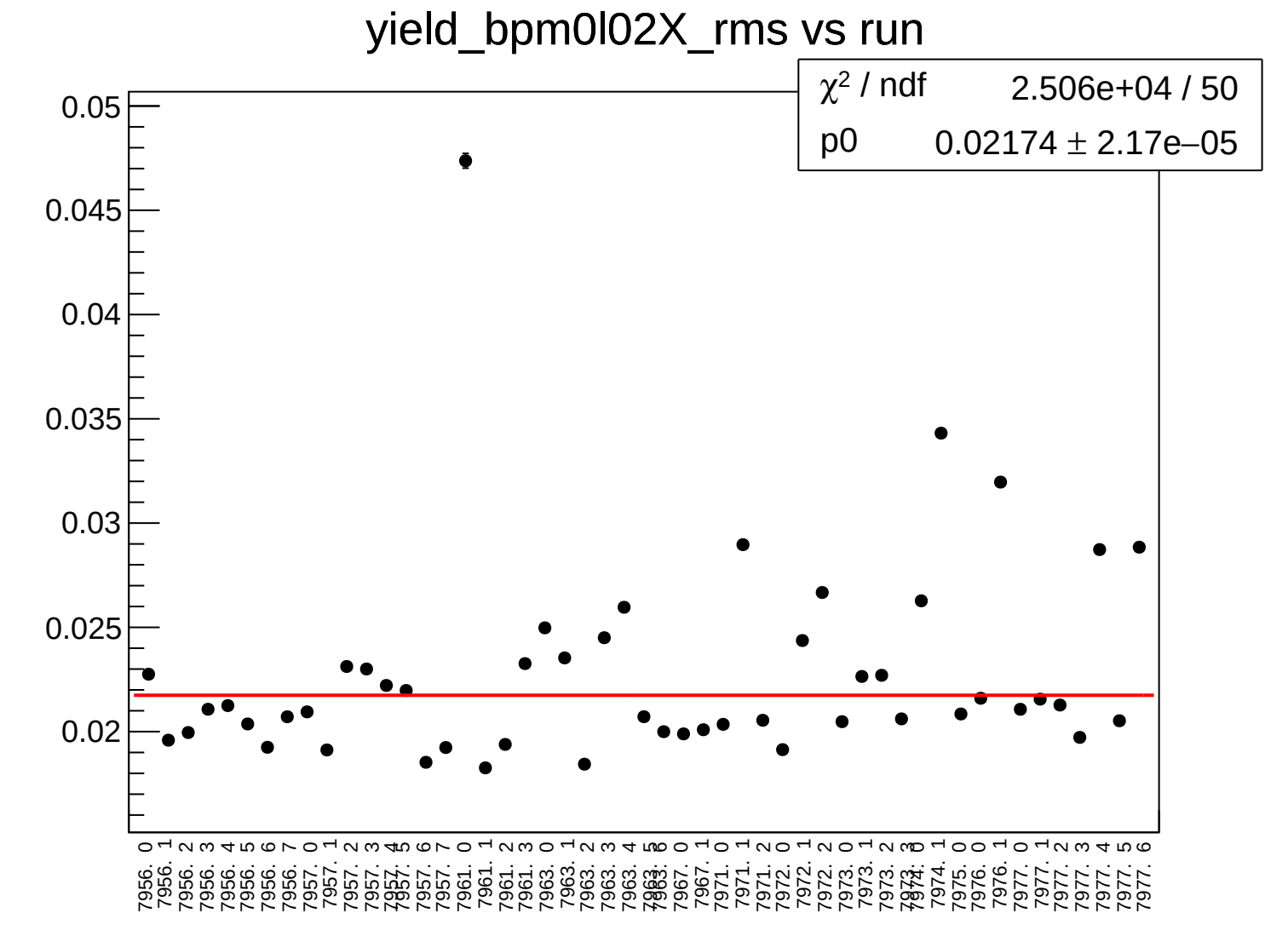

yield_bpm0l01Y_mean vs run
χ² / ndf 9.743e+05 / 50
p0 −6.342 ± 2.059e−05
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
pull
Entries 51
Mean 110.1
Std Dev 79.14
300
200
100
0
−100
−200
−300
−400

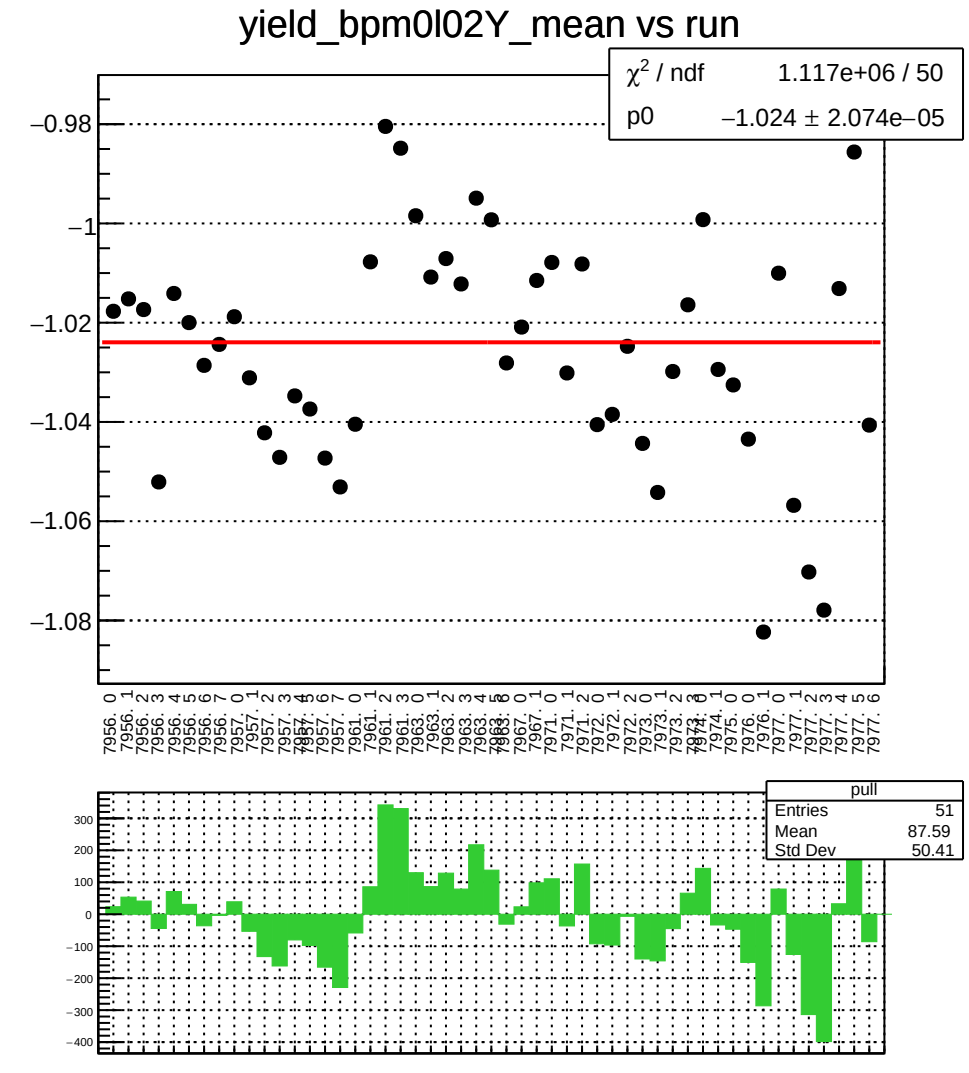

pull1D
Entries 51
Mean 4.745
Std Dev 2.988
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

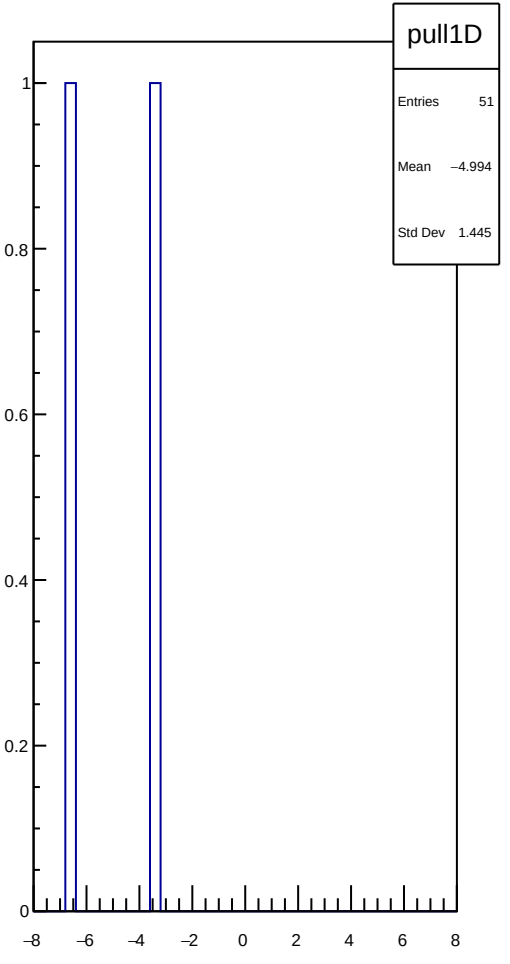

yield_bpm0l01Y_rms vs run
χ² / ndf 5.161e+04 / 50
p0 0.0144 ± 1.456e−05
0.05
0.04
0.03
0.02
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971.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

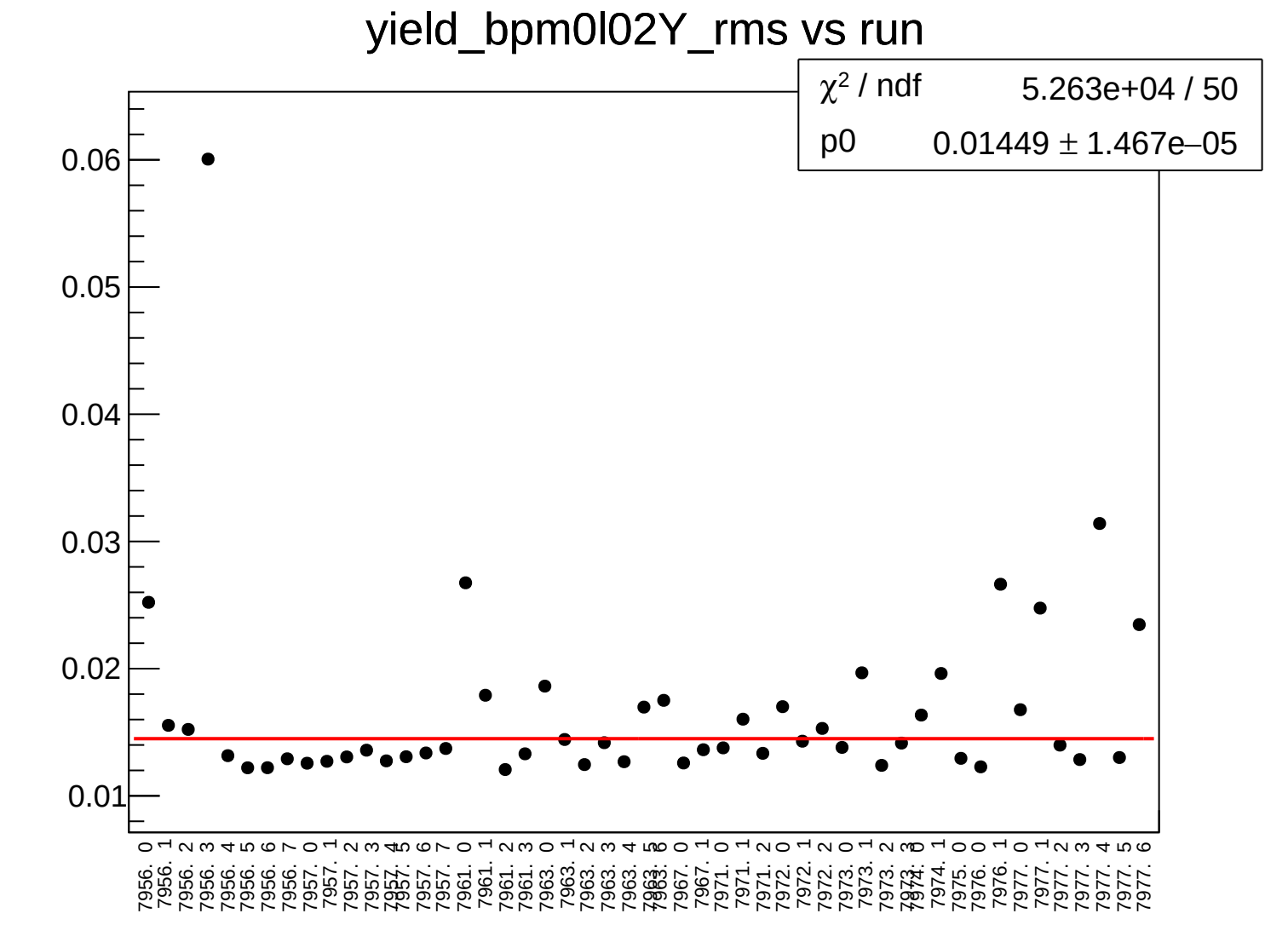

yield_bpm0l02X_mean vs run
χ² / ndf 2.82e+06 / 50
p0 −0.7158 ± 3.069e−05
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 51
Mean 1017
Std Dev 987.9
400
200
0
−200
−400
−600

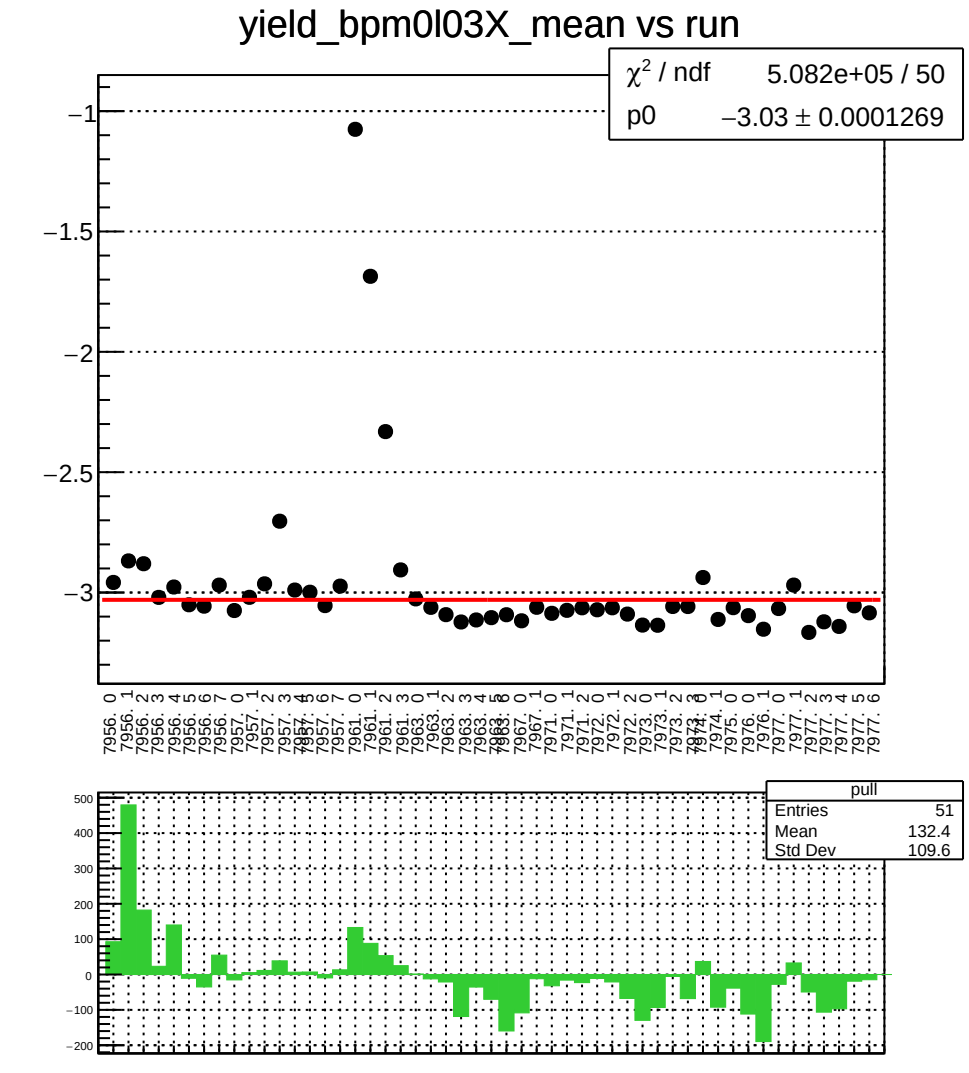

pull1D
Entries 51
Mean 5.321
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

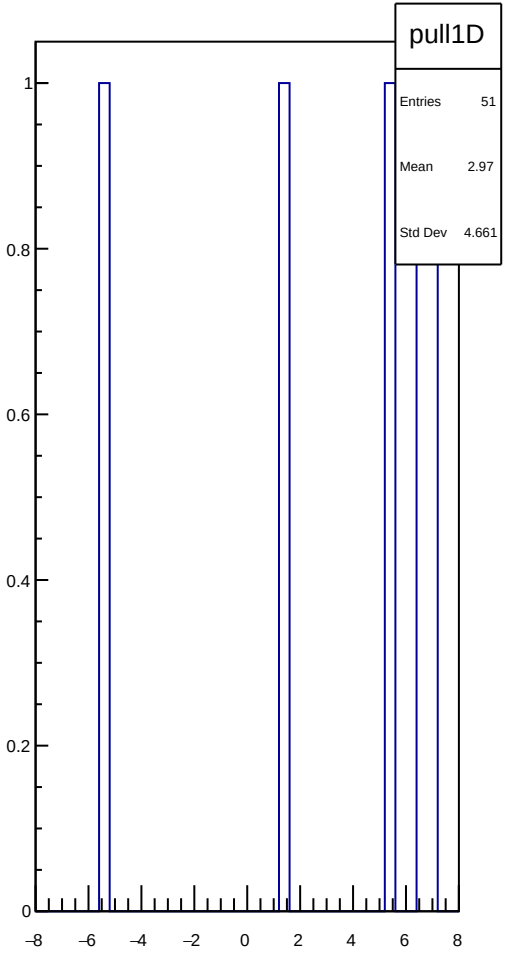

yield_bpm0l02X_rms vs run
χ² / ndf 2.506e+04 / 50
p0 0.02174 ± 2.17e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

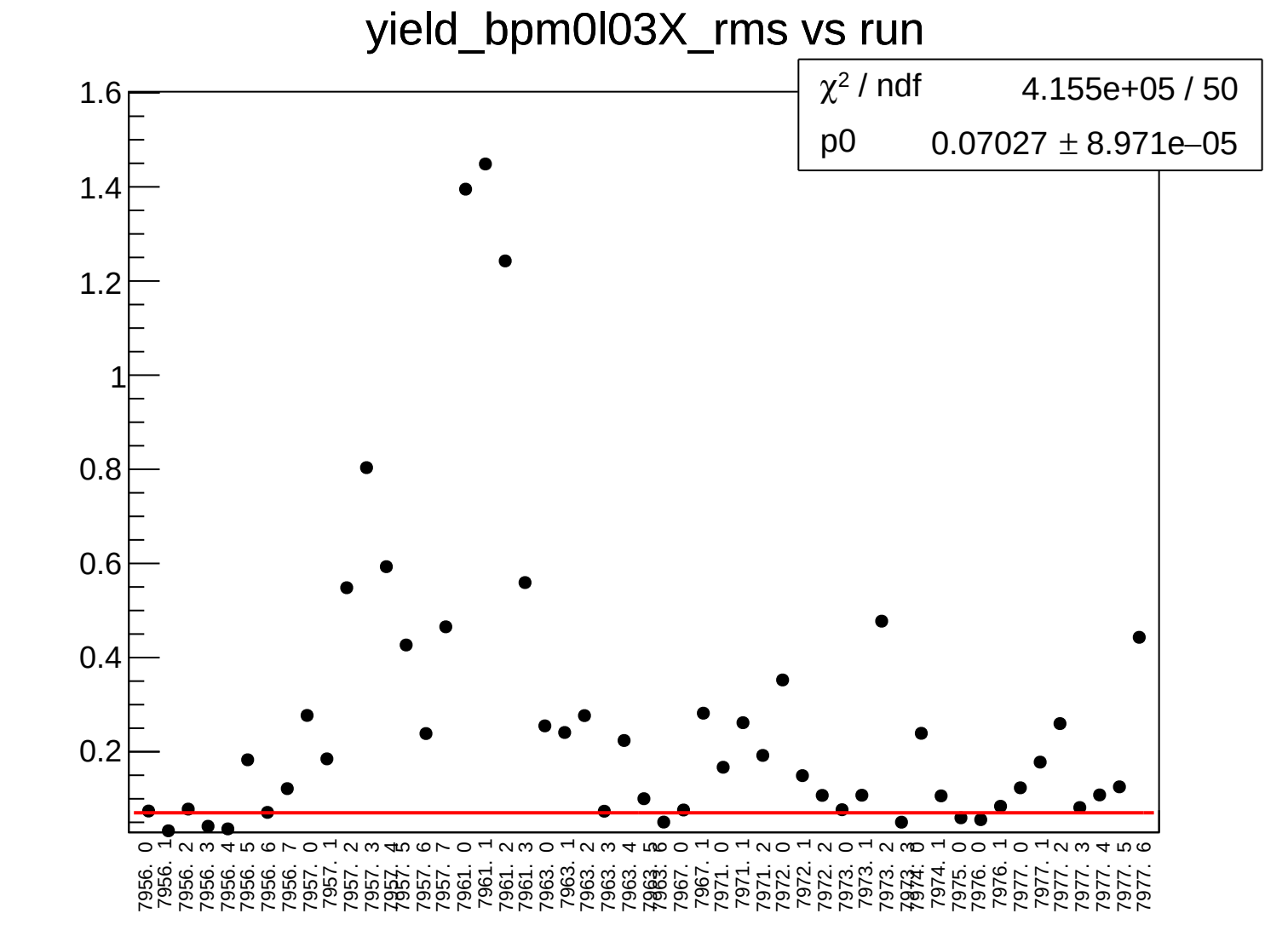

yield_bpm0l02Y_mean vs run
χ² / ndf 1.117e+06 / 50
p0 −1.024 ± 2.074e−05
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 51
Mean 87.59
Std Dev 50.41
300
200
100
0
−100
−200
−300
−400

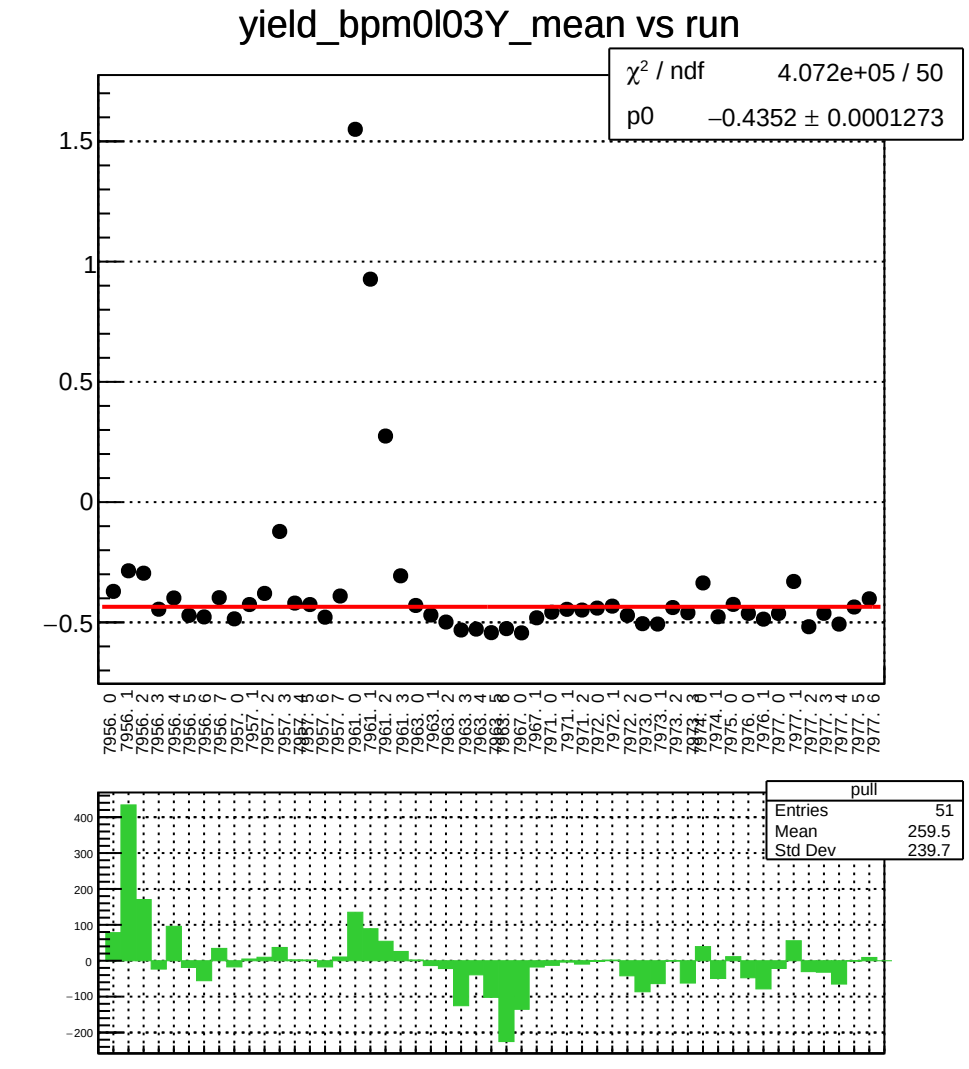

pull1D
Entries 51
Mean −4.994
Std Dev 1.445
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

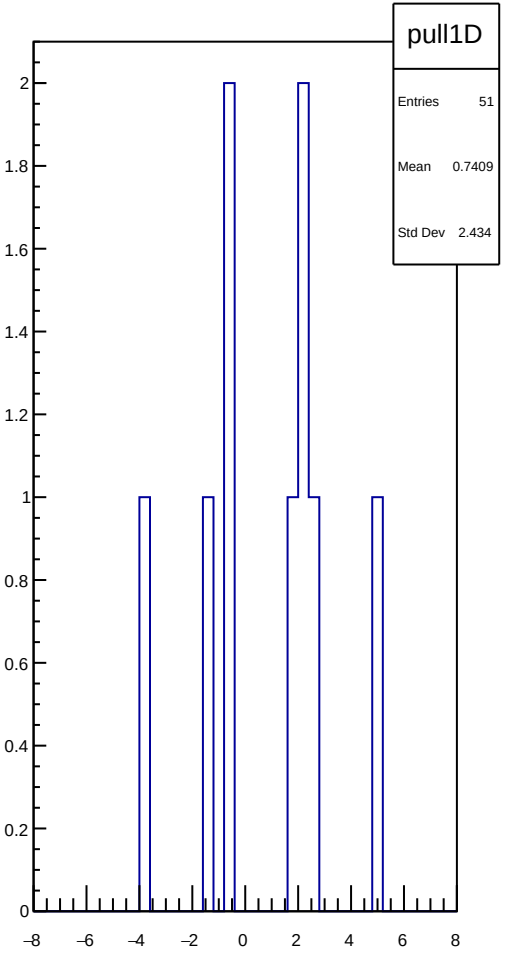

yield_bpm0l02Y_rms vs run
χ² / ndf 5.263e+04 / 50
p0 0.01449 ± 1.467e−05
0.06
0.05
0.04
0.03
0.02
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 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

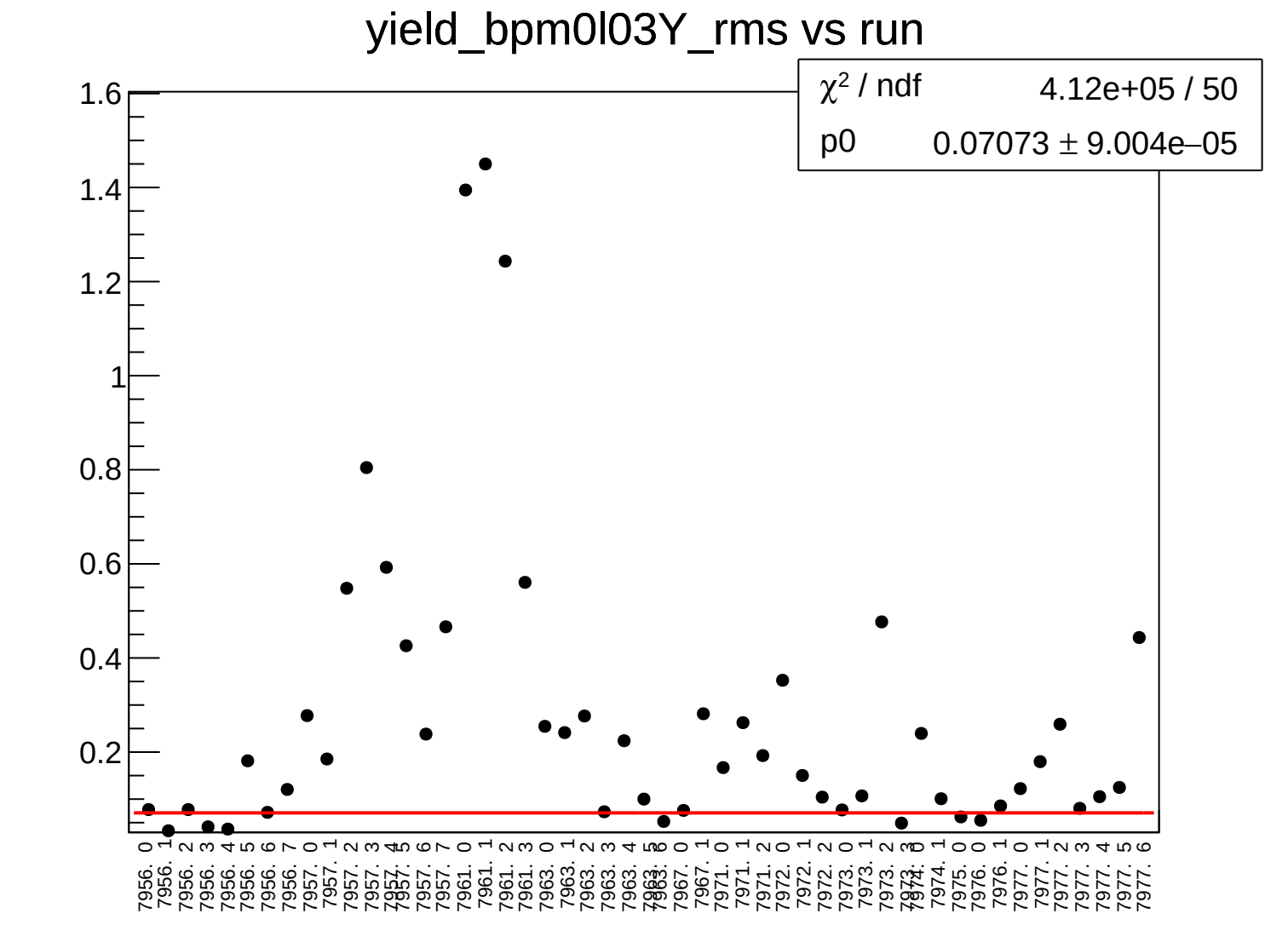

yield_bpm0l03X_mean vs run
χ² / ndf 5.082e+05 / 50
p0 −3.03 ± 0.0001269
pull
Entries 51
Mean 132.4
Std Dev 109.6

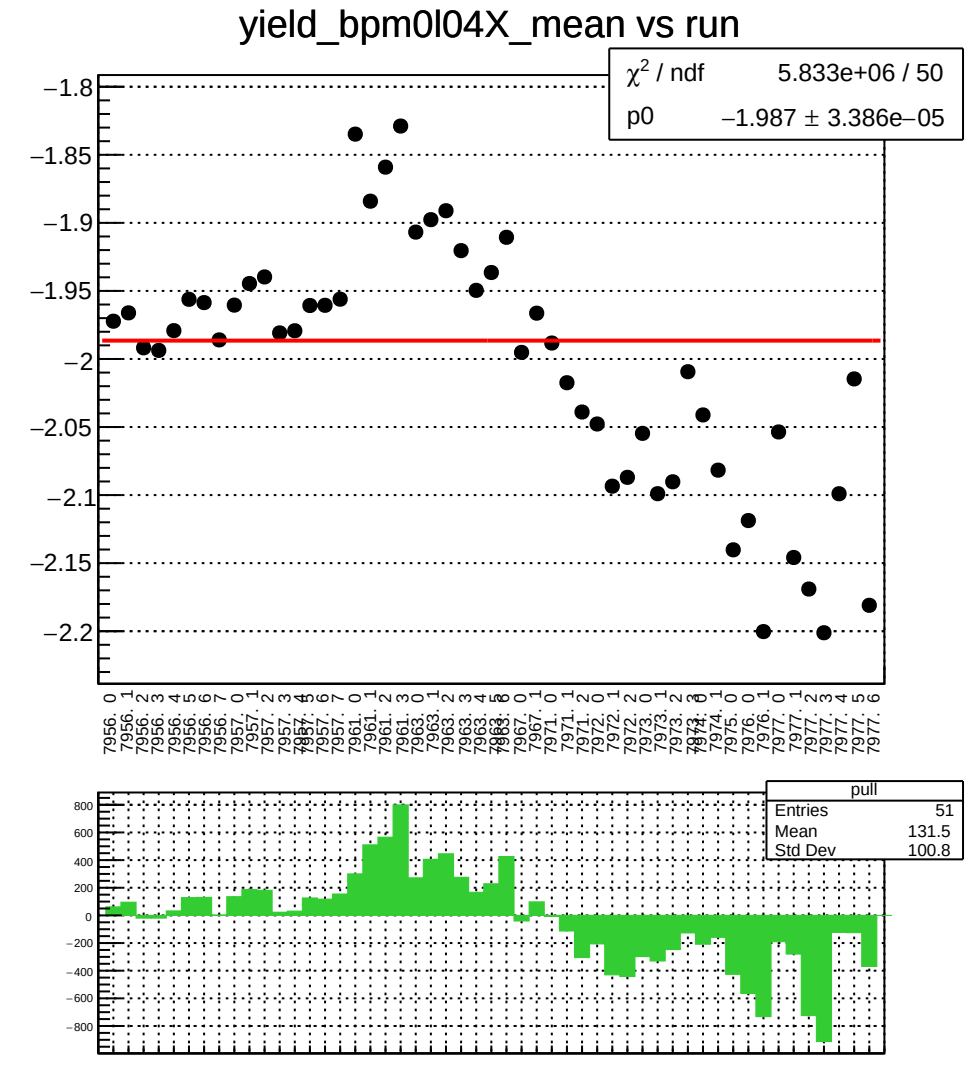

pull1D
Entries 51
Mean 2.97
Std Dev 4.661

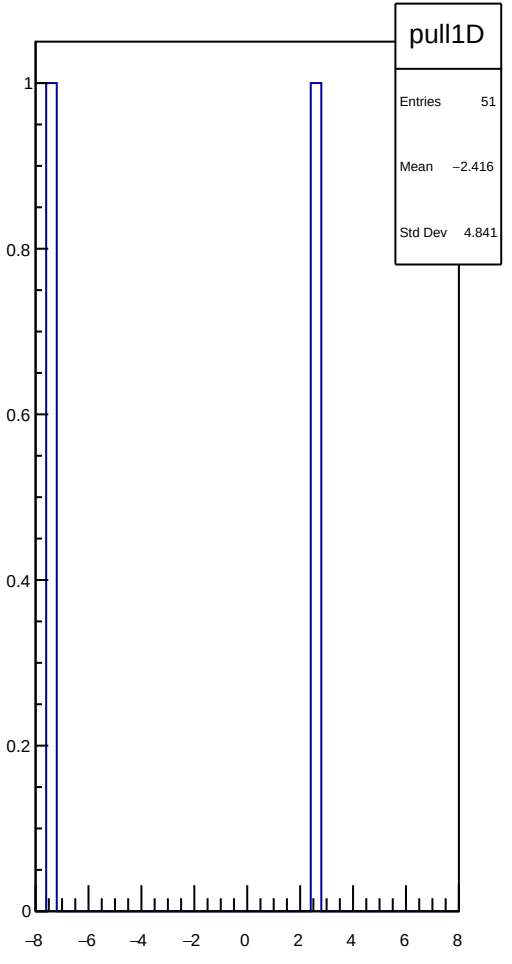

yield_bpm0l03X_rms vs run
χ² / ndf 4.155e+05 / 50
p0 0.07027 ± 8.971e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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

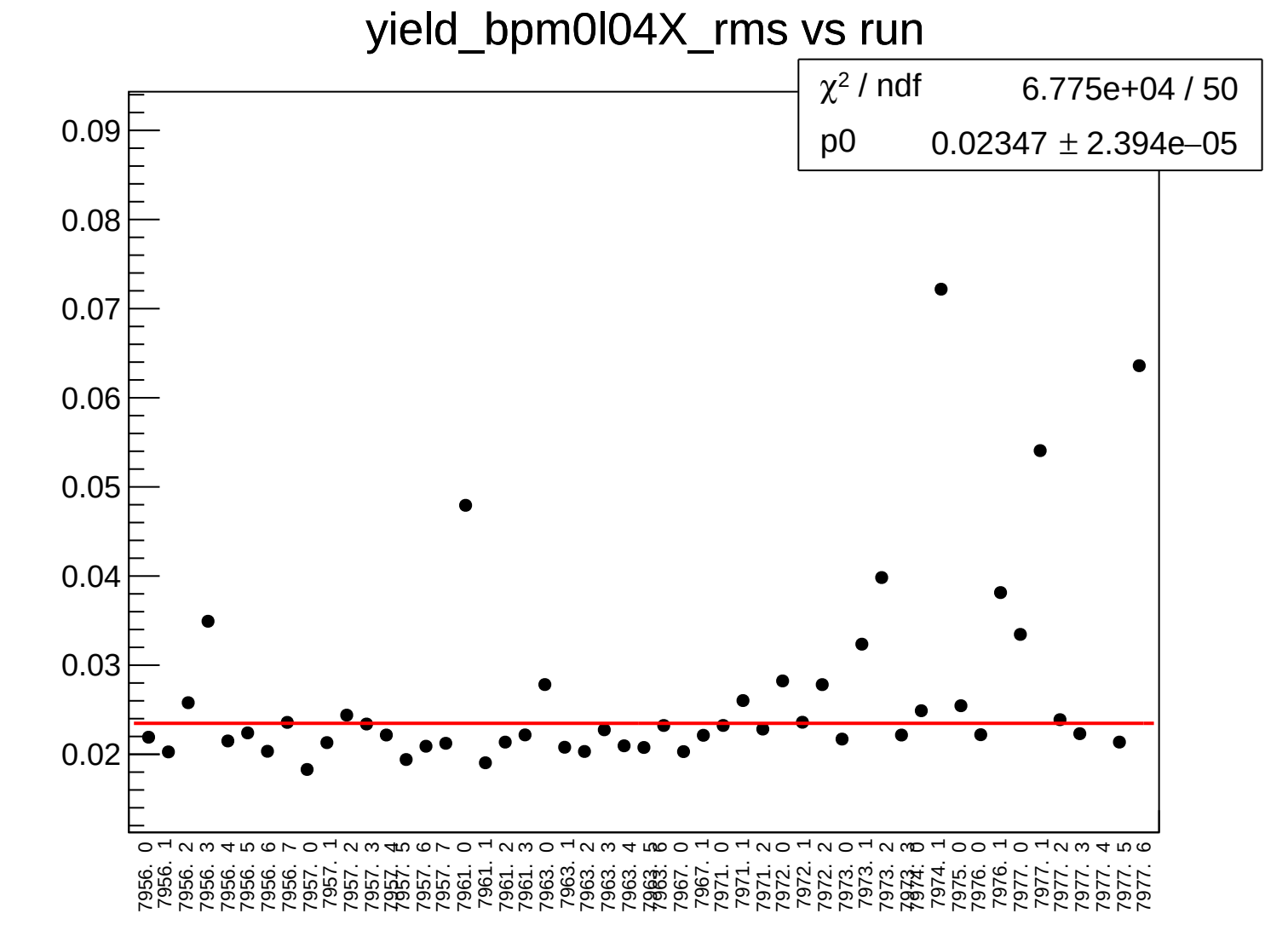

yield_bpm0l03Y_mean vs run
χ² / ndf 4.072e+05 / 50
p0 −0.4352 ± 0.0001273
pull
Entries 51
Mean 259.5
Std Dev 239.7

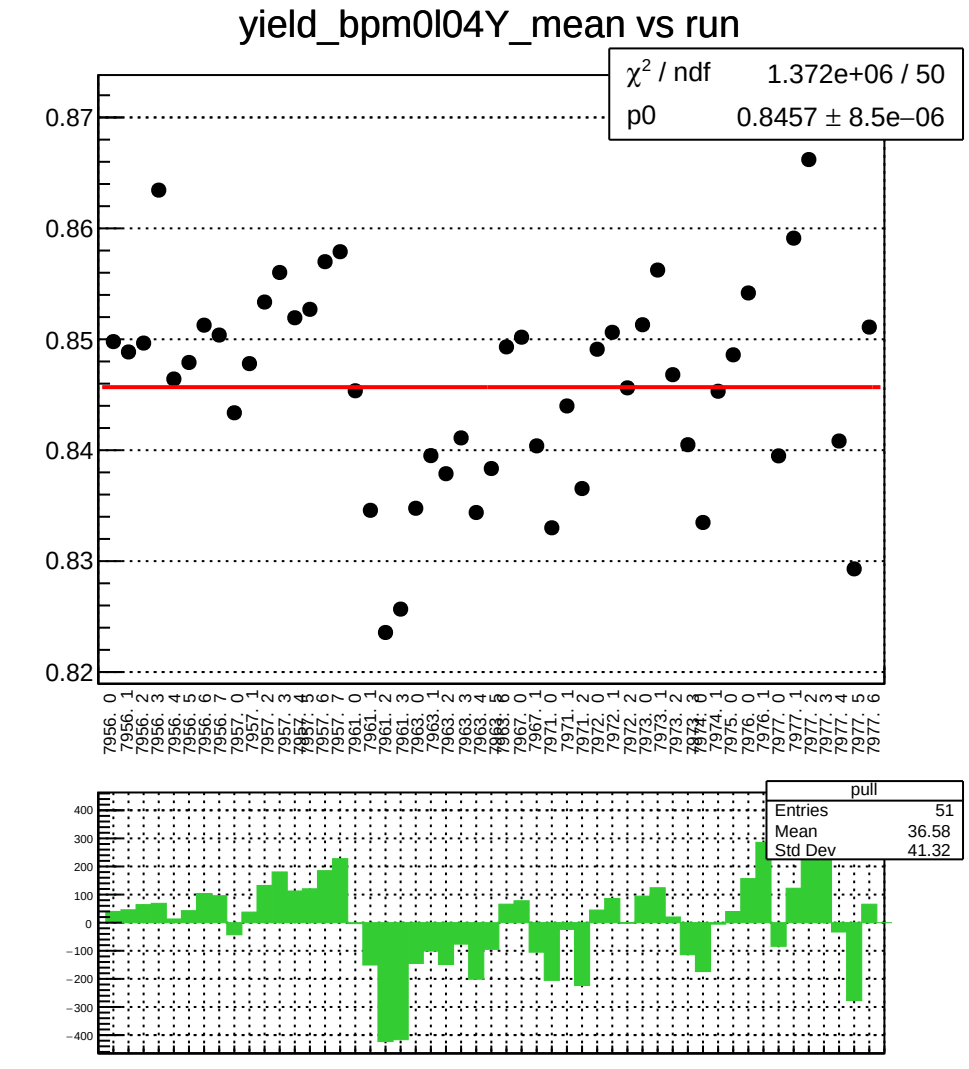

pull1D
Entries 51
Mean 0.7409
Std Dev 2.434

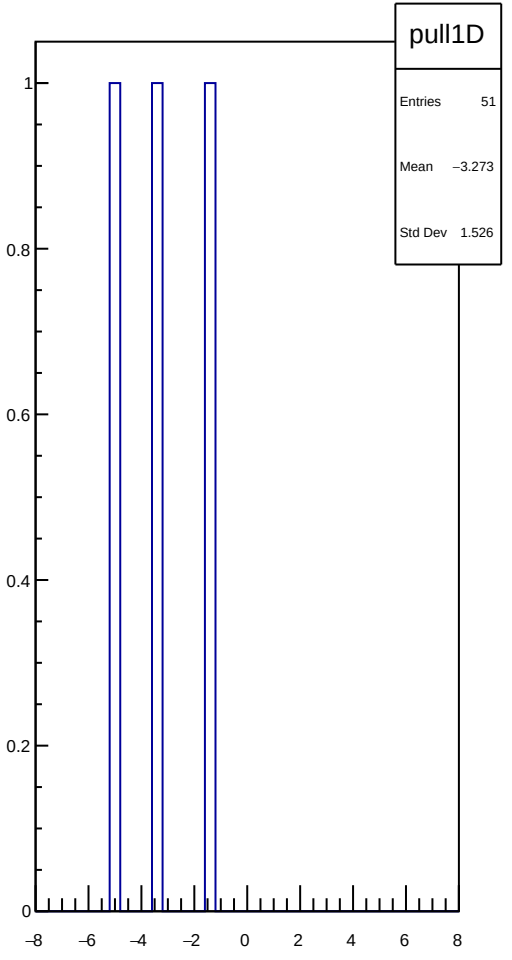

yield_bpm0l03Y_rms vs run
χ² / ndf 4.12e+05 / 50
p0 0.07073 ± 9.004e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
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

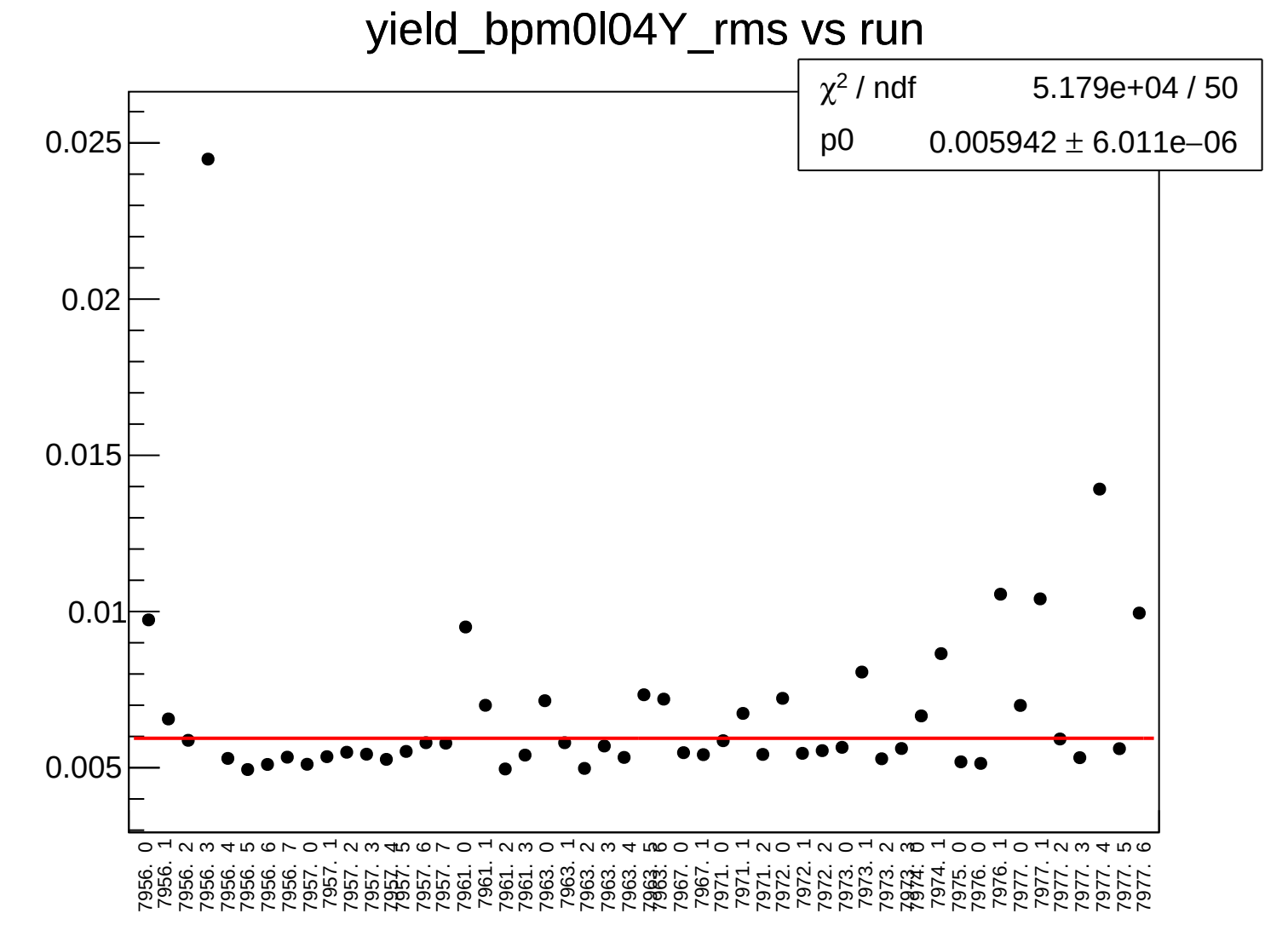

yield_bpm0l04X_mean vs run
χ² / ndf 5.833e+06 / 50
p0 −1.987 ± 3.386e−05
−1.8
−1.85
−1.9
−1.95
−2
−2.05
−2.1
−2.15
−2.2
pull
Entries 51
Mean 131.5
Std Dev 100.8
800
600
400
200
0
−200
−400
−600
−800


pull1D
Entries 51
Mean −2.416
Std Dev 4.841
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04X_rms vs run
χ² / ndf 6.775e+04 / 50
p0 0.02347 ± 2.394e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
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
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm0l04Y_mean vs run
χ² / ndf 1.372e+06 / 50
p0 0.8457 ± 8.5e−06
0.87
0.86
0.85
0.84
0.83
0.82
pull
Entries 51
Mean 36.58
Std Dev 41.32
400
300
200
100
0
−100
−200
−300
−400


pull1D
Entries 51
Mean −3.273
Std Dev 1.526
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l04Y_rms vs run
χ² / ndf 5.179e+04 / 50
p0 0.005942 ± 6.011e−06
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. 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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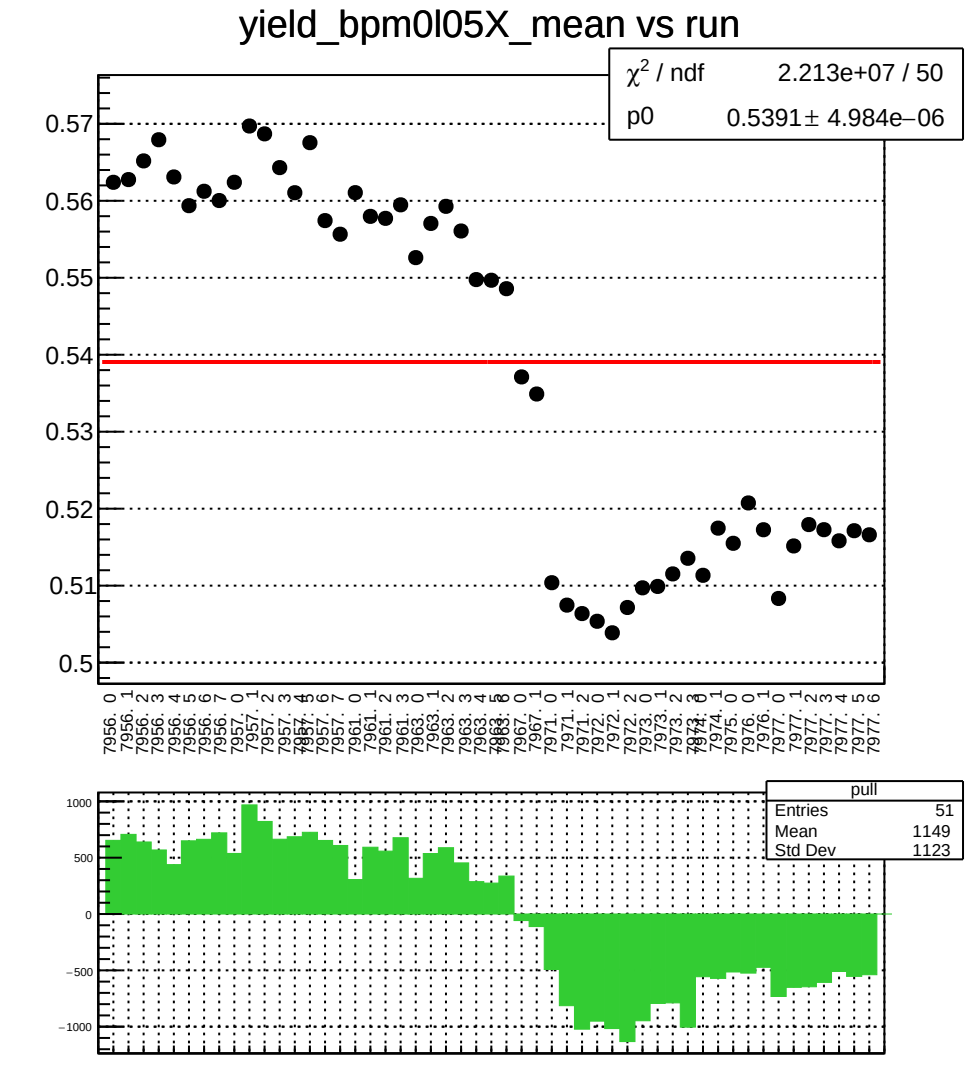
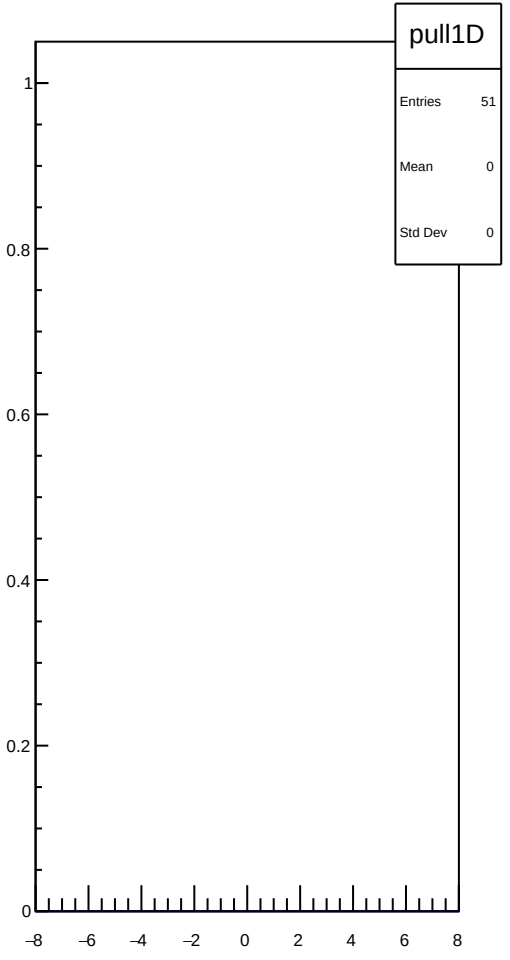
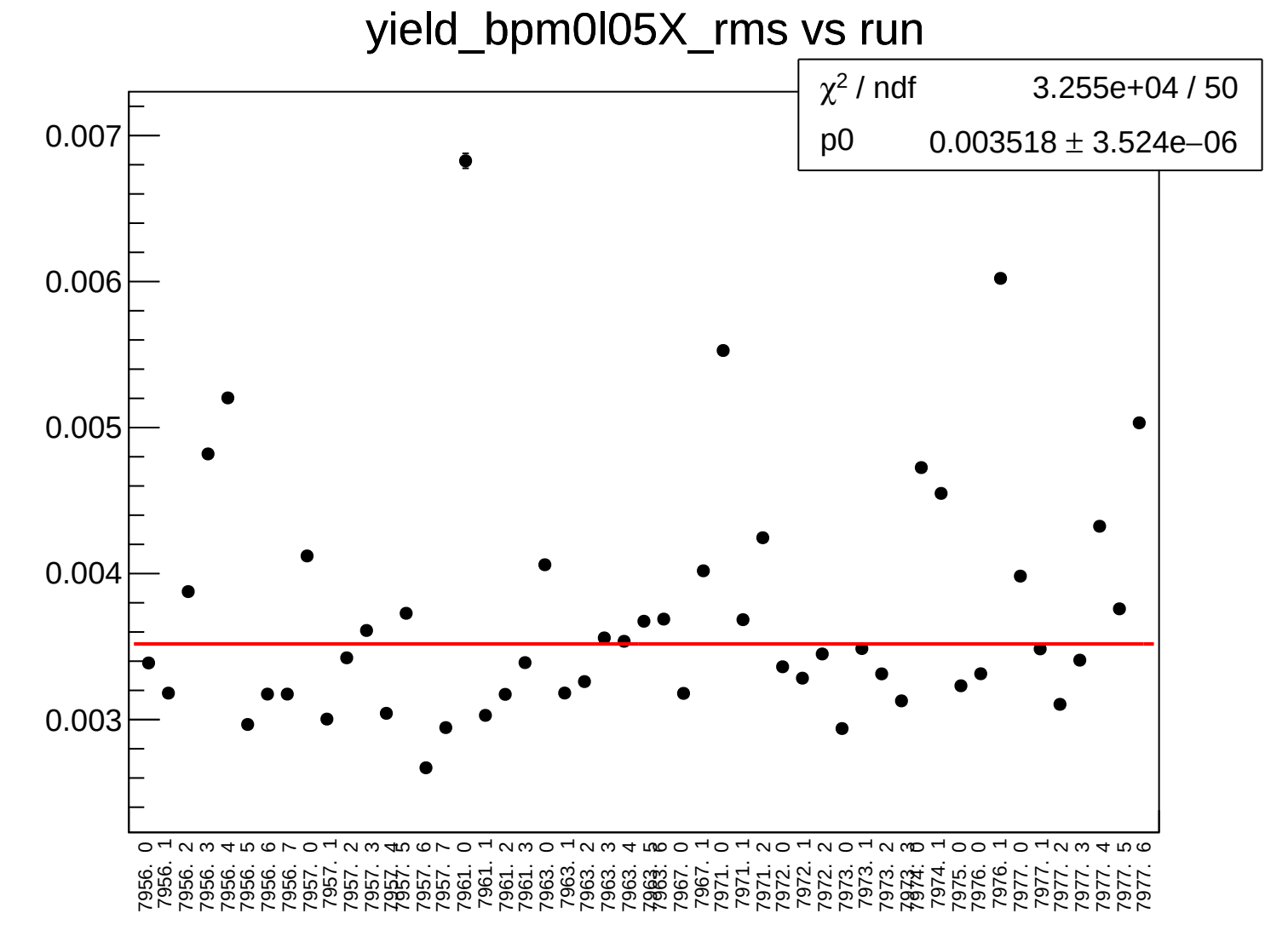
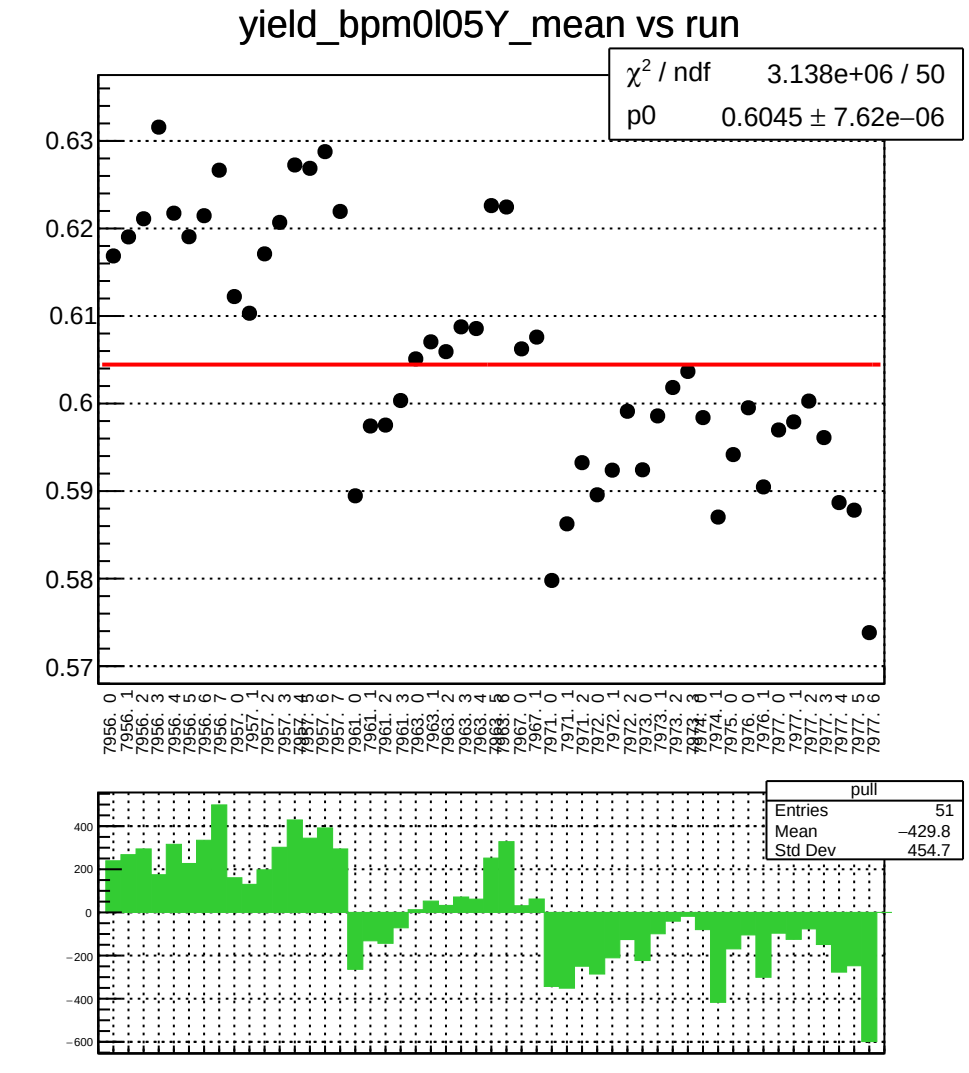
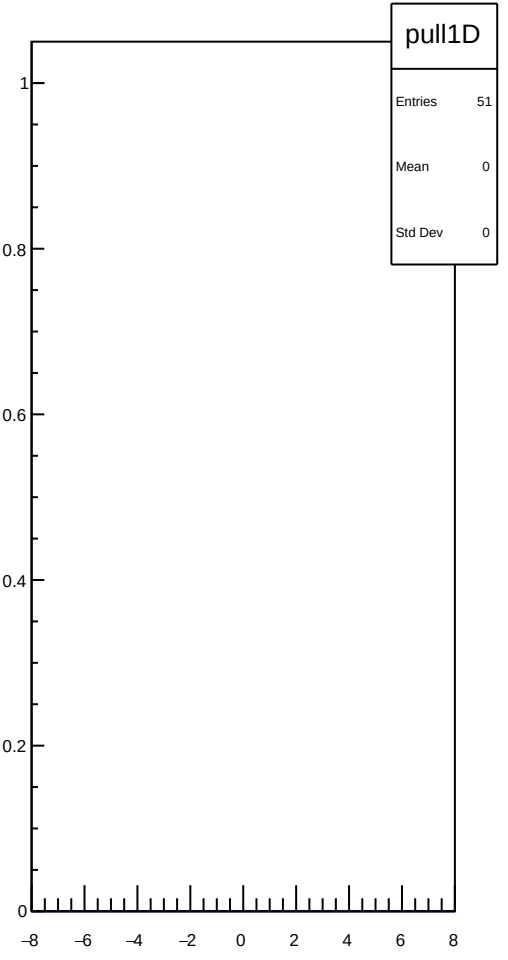
7977. 5
7977. 6

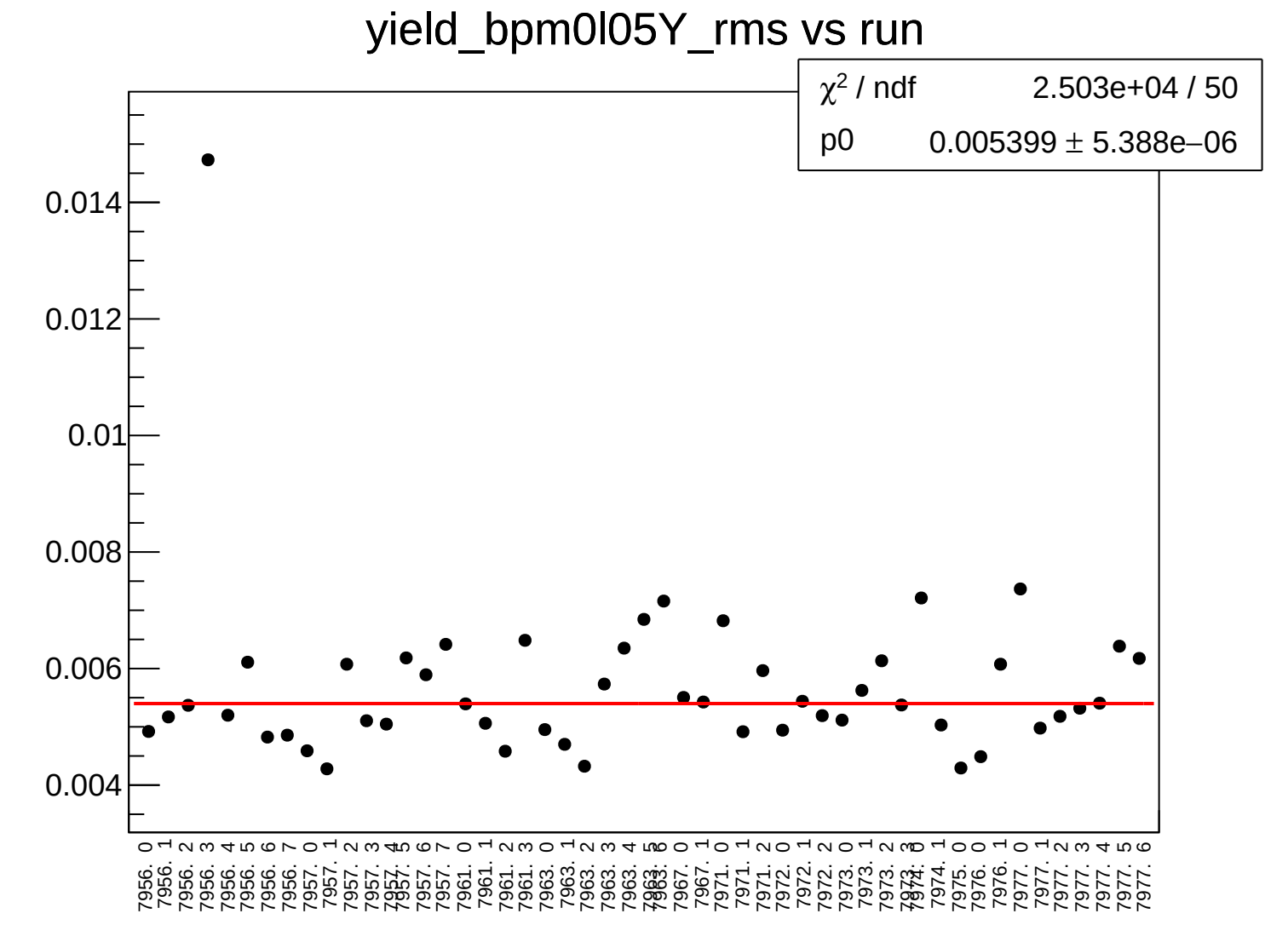

yield_bpm0l05X_mean vs run
χ² / ndf 2.213e+07 / 50
p0 0.5391 ± 4.984e−06
0.57
0.56
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 51
Mean 1149
Std Dev 1123
1000
500
0
−500
−1000

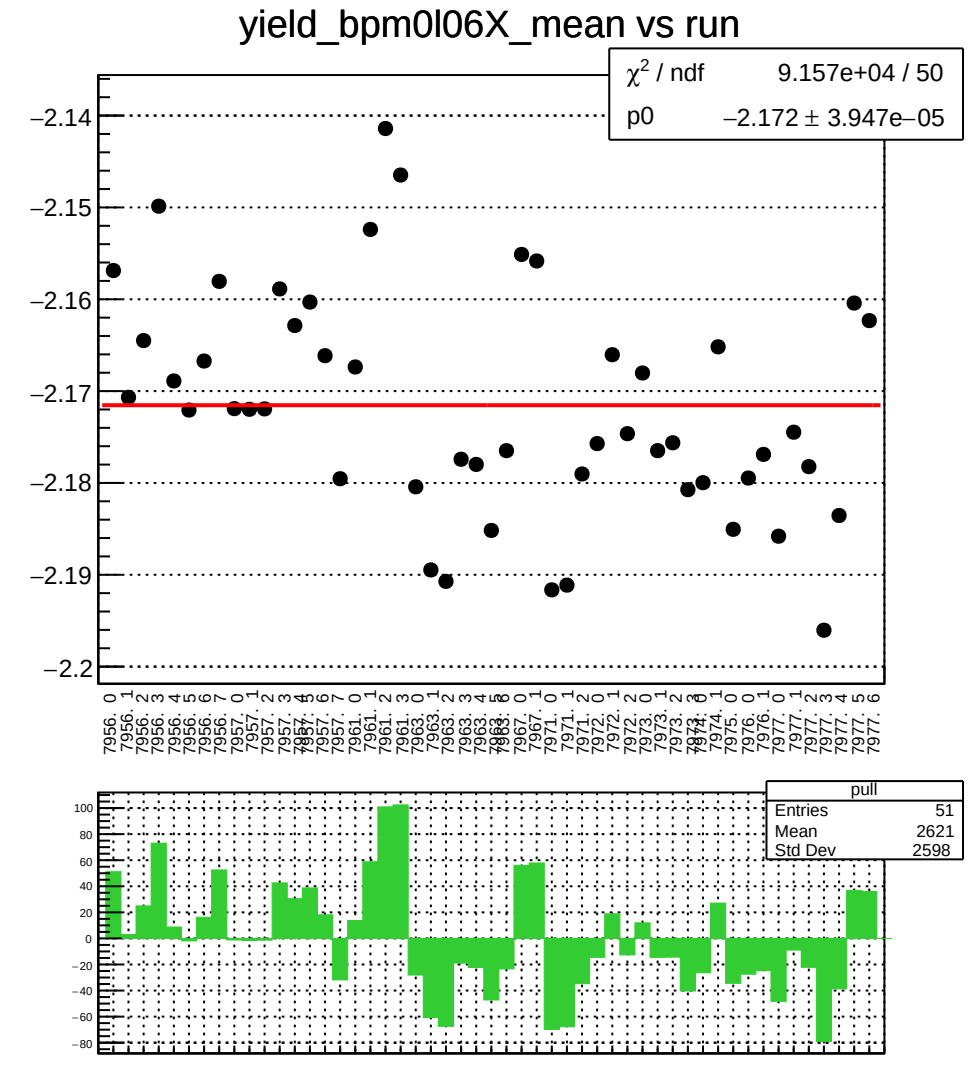

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

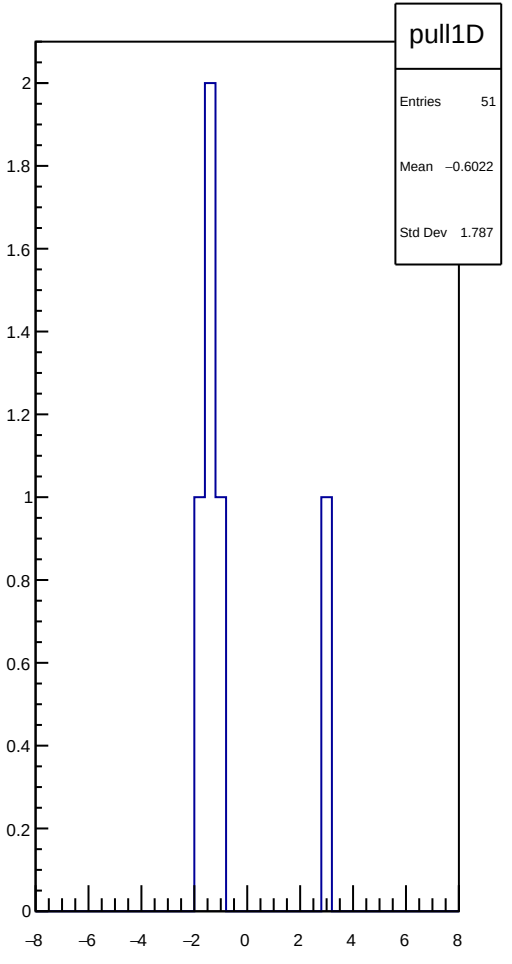

yield_bpm0l05X_rms vs run
χ² / ndf 3.255e+04 / 50
p0 0.003518 ± 3.524e−06
0.007
0.006
0.005
0.004
0.003
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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

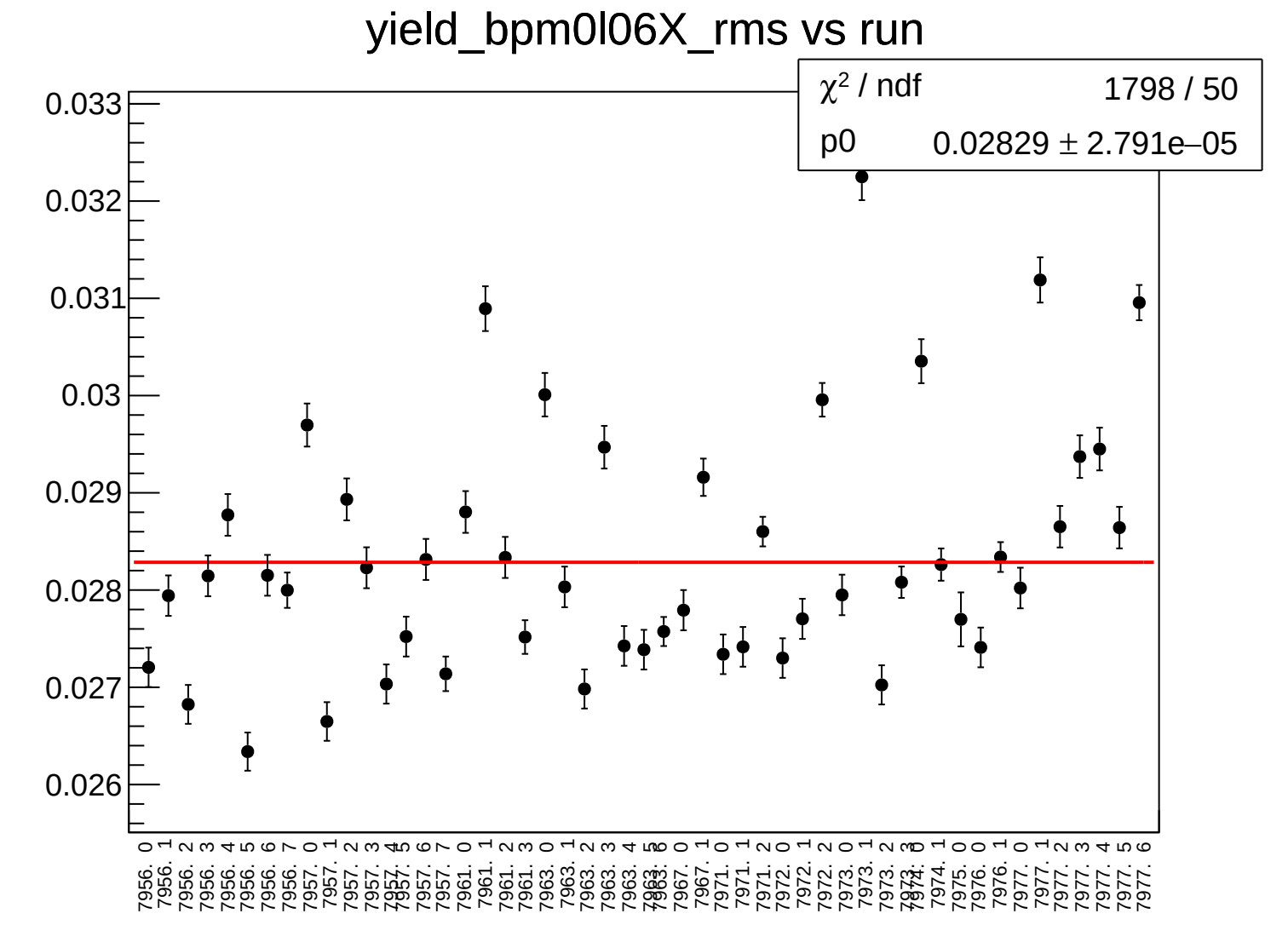

yield_bpm0l05Y_mean vs run
χ² / ndf 3.138e+06 / 50
p0 0.6045 ± 7.62e−06
0.63
0.62
0.61
0.6
0.59
0.58
0.57
pull
Entries 51
Mean −429.8
Std Dev 454.7
400
200
0
−200
−400
−600

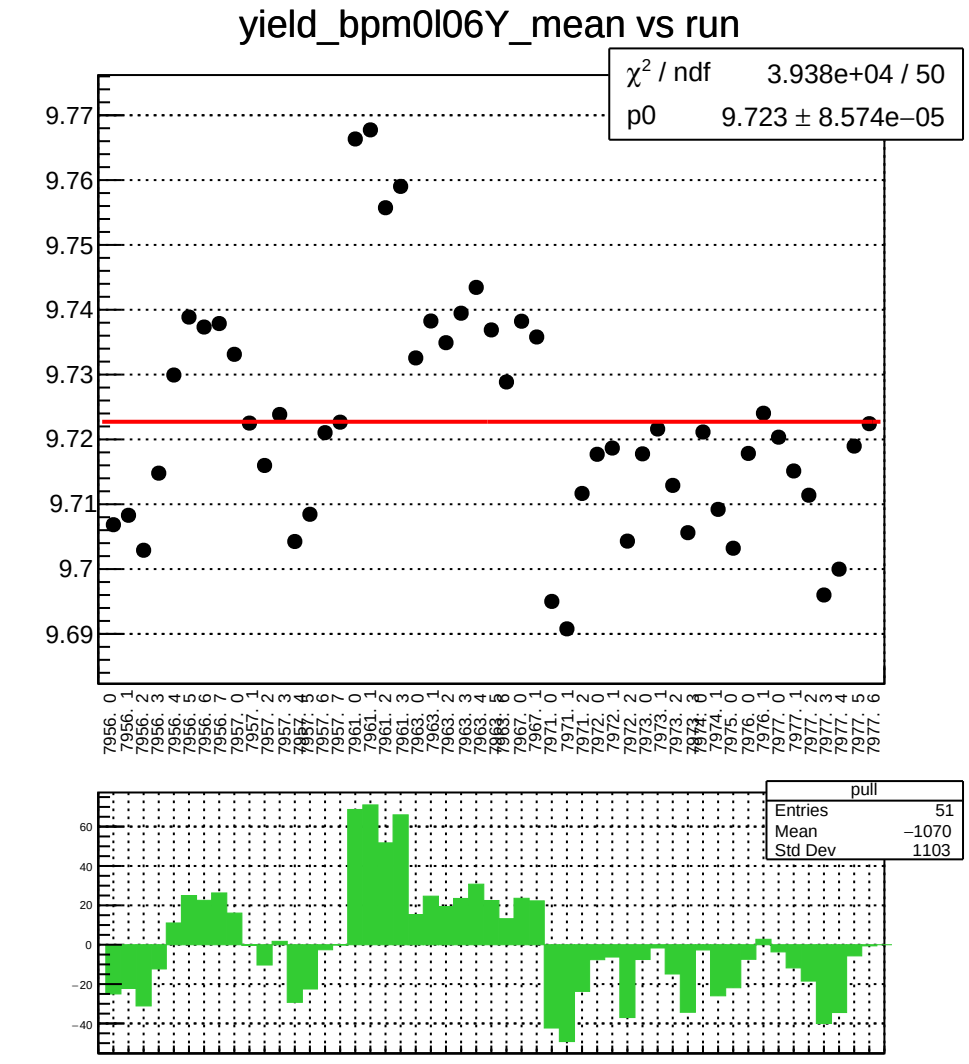

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

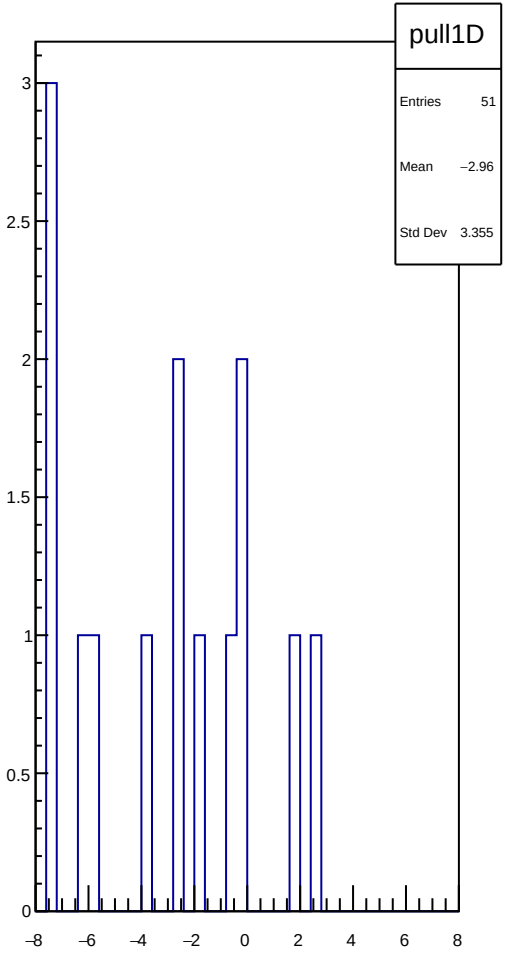

yield_bpm0l05Y_rms vs run
χ² / ndf 2.503e+04 / 50
p0 0.005399 ± 5.388e−06
0.014
0.012
0.01
0.008
0.006
0.004
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
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

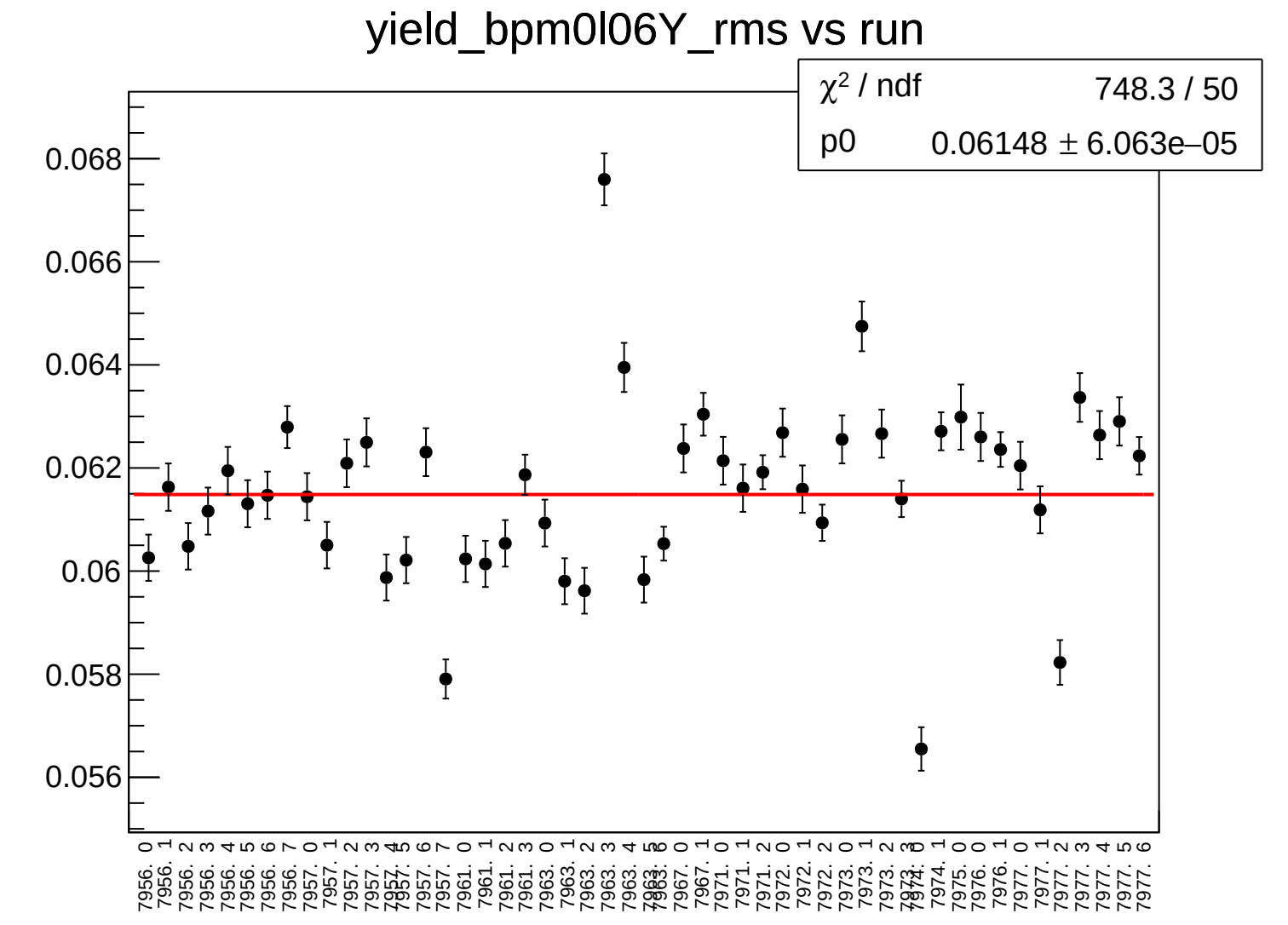

yield_bpm0l06X_mean vs run
χ² / ndf 9.157e+04 / 50
p0 −2.172 ± 3.947e−05
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
−2.2
pull
Entries 51
Mean 2621
Std Dev 2598
100
80
60
40
20
0
−20
−40
−60
−80

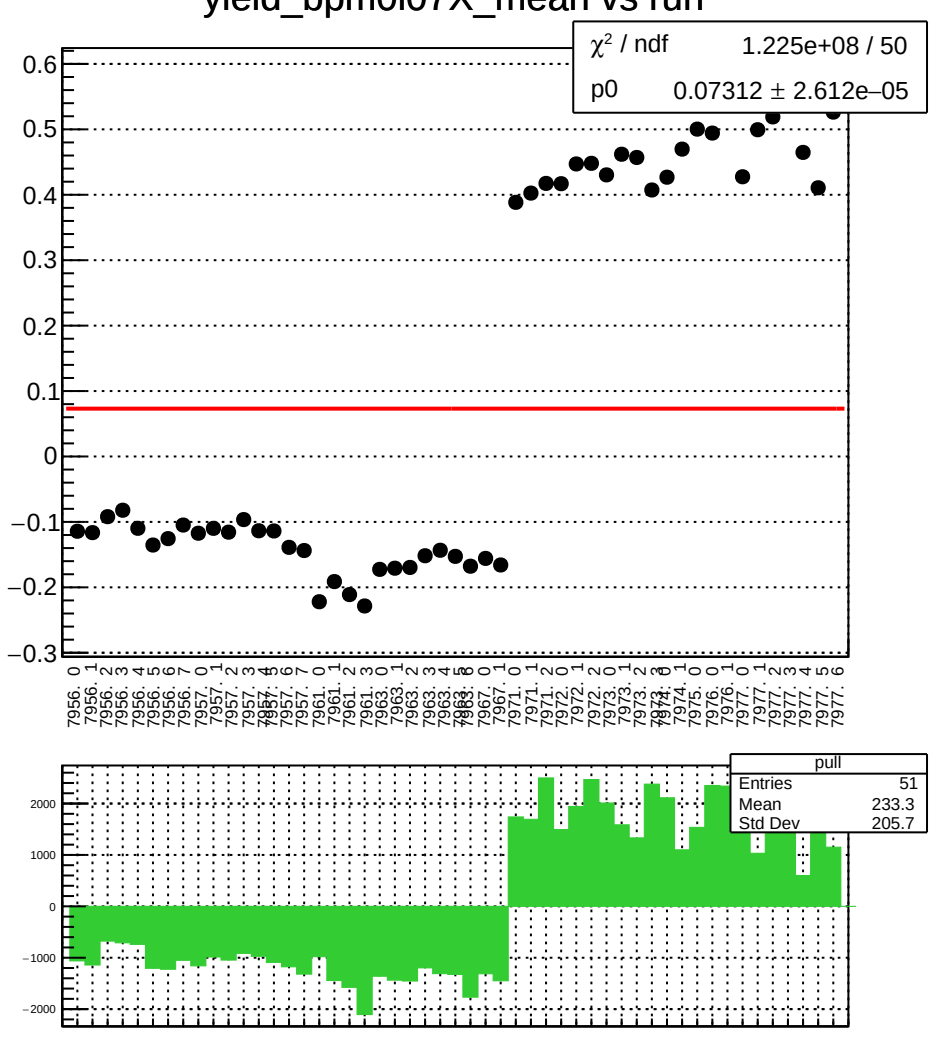

pull1D
Entries 51
Mean −0.6022
Std Dev 1.787
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

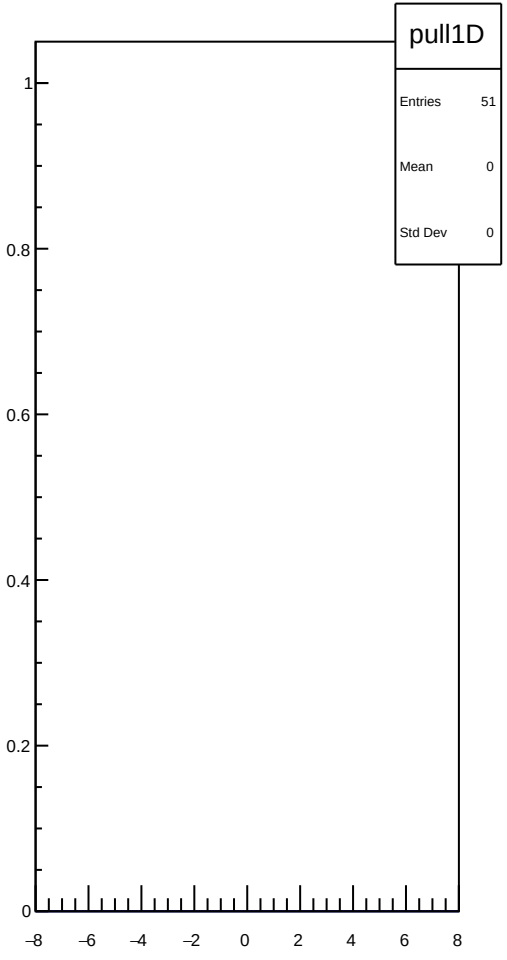

yield_bpm0l06X_rms vs run
χ² / ndf 1798 / 50
p0 0.02829 ± 2.791e–05
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 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

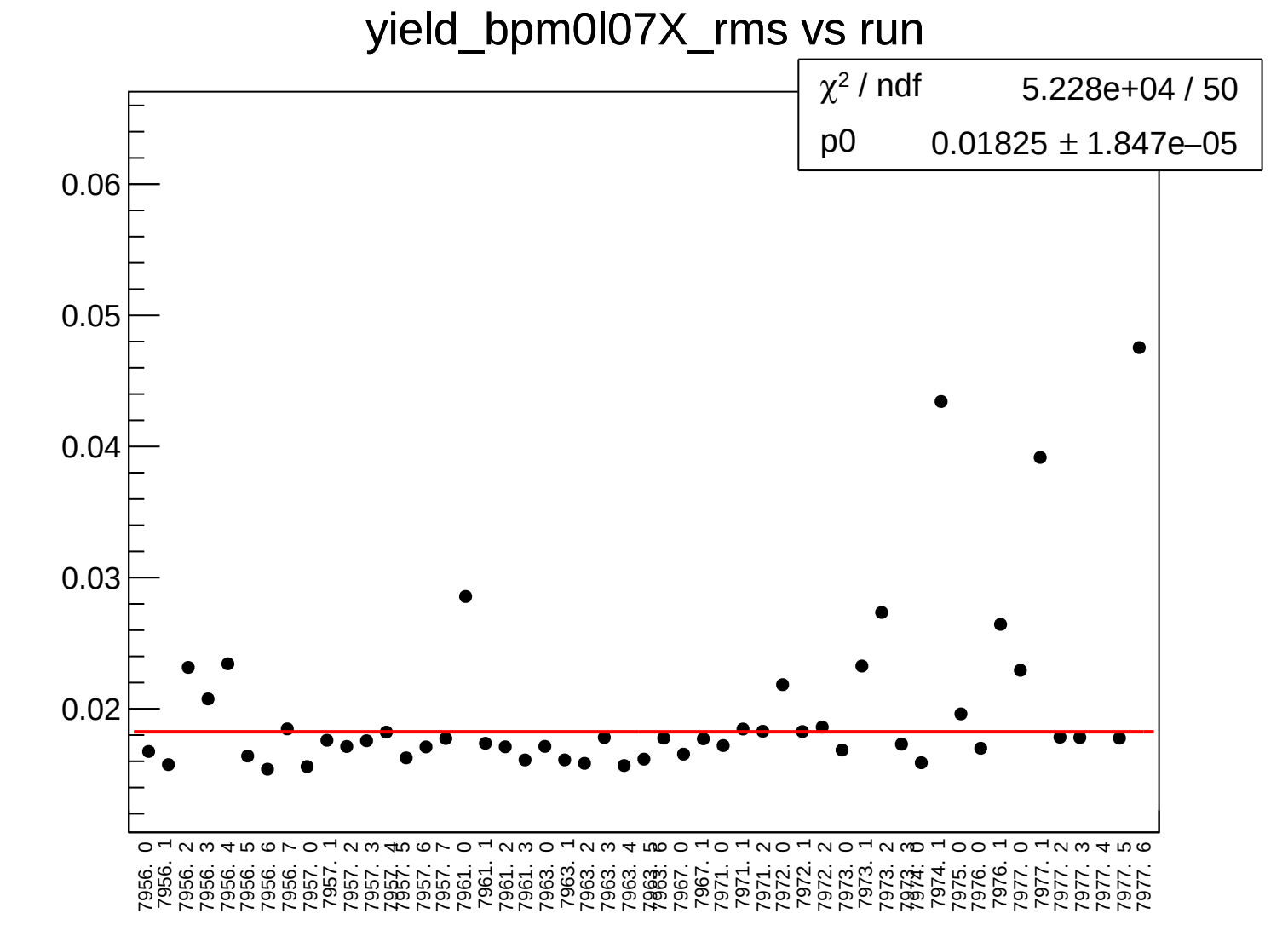

yield_bpm0l06Y_mean vs run
χ² / ndf 3.938e+04 / 50
p0 9.723 ± 8.574e−05
9.77
9.76
9.75
9.74
9.73
9.72
9.71
9.7
9.69
pull
Entries 51
Mean −1070
Std Dev 1103
60
40
20
0
−20
−40

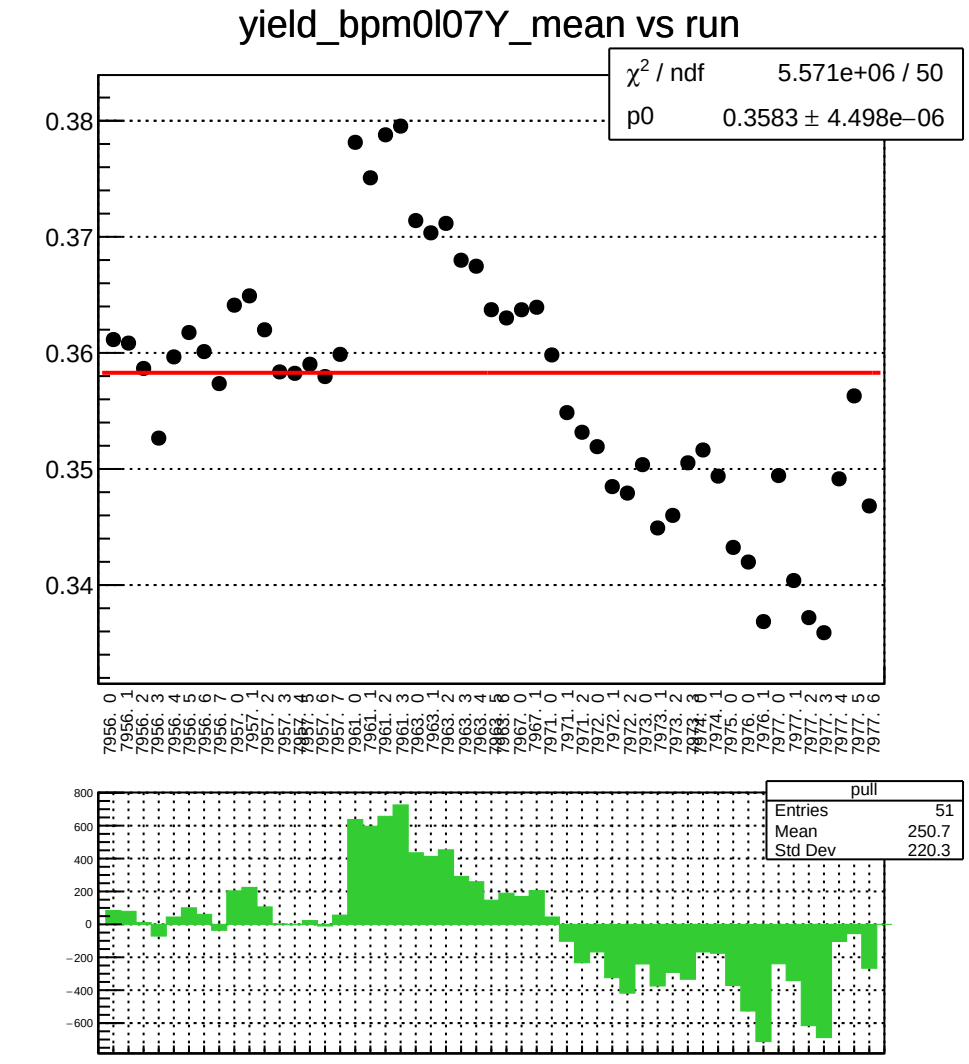

pull1D
Entries 51
Mean −2.96
Std Dev 3.355
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

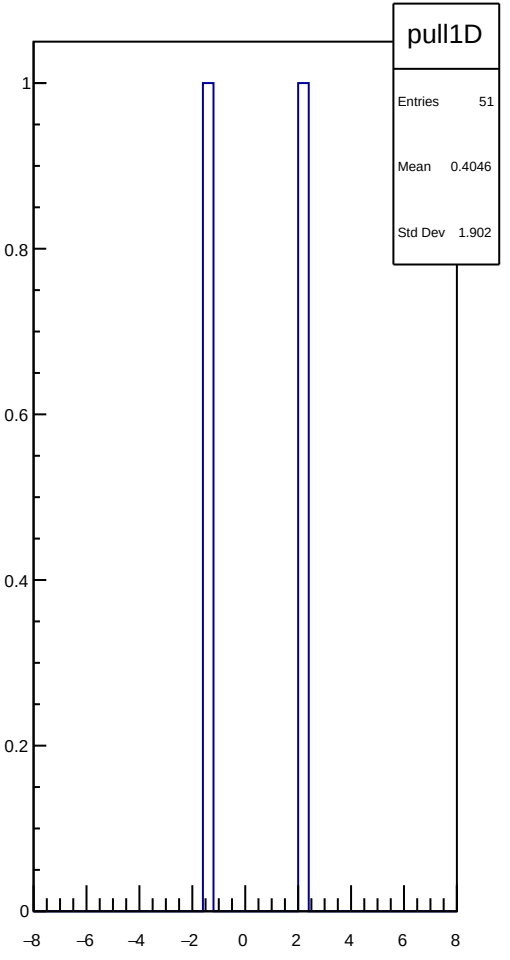

yield_bpm0l06Y_rms vs run
χ² / ndf 748.3 / 50
p0 0.06148 ± 6.063e–05
0.068
0.066
0.064
0.062
0.06
0.058
0.056
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
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

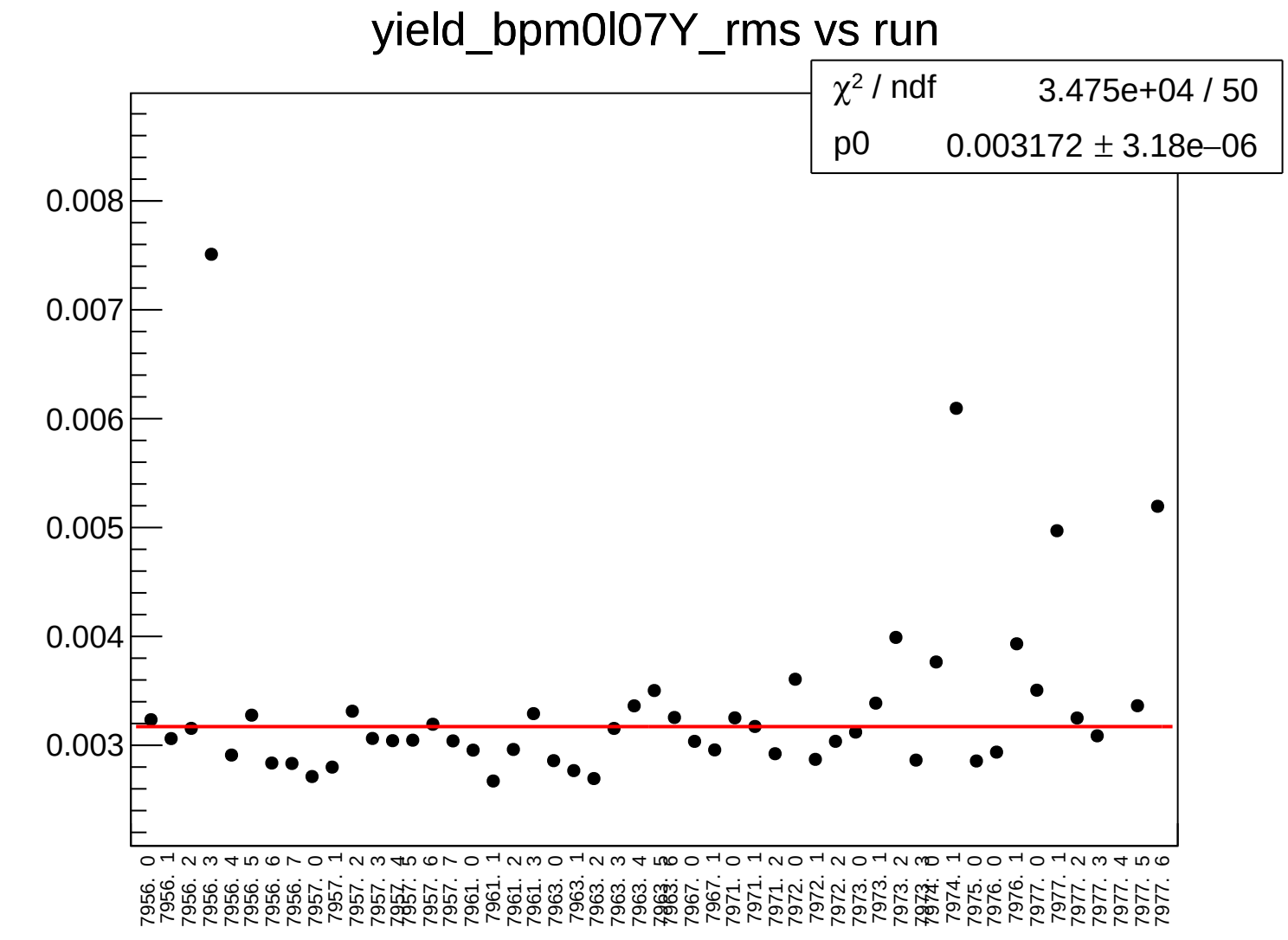

yield_bpm0l07X_mean vs run
χ² / ndf 1.225e+08 / 50
p0 0.07312 ± 2.612e−05
pull
Entries 51
Mean 233.3
Std Dev 205.7

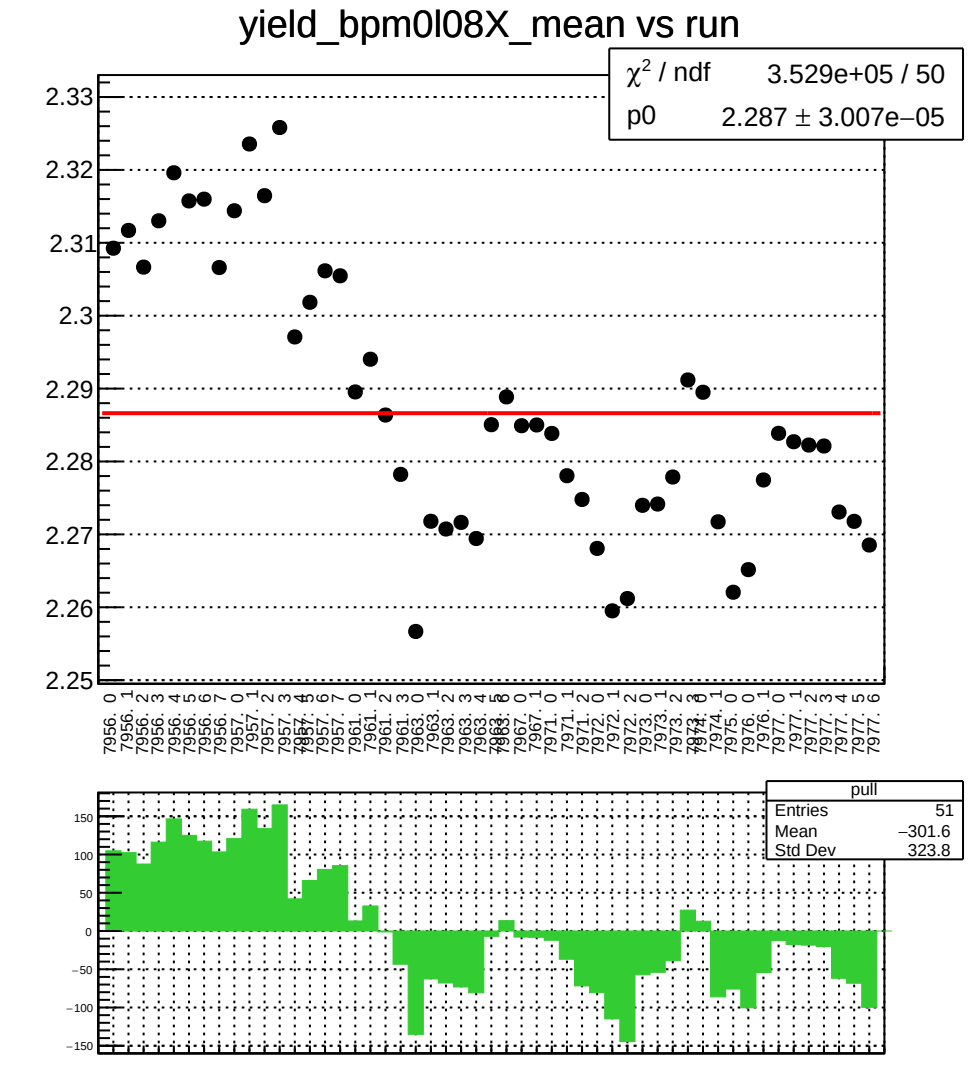

pull1D
Entries 51
Mean 0
Std Dev 0

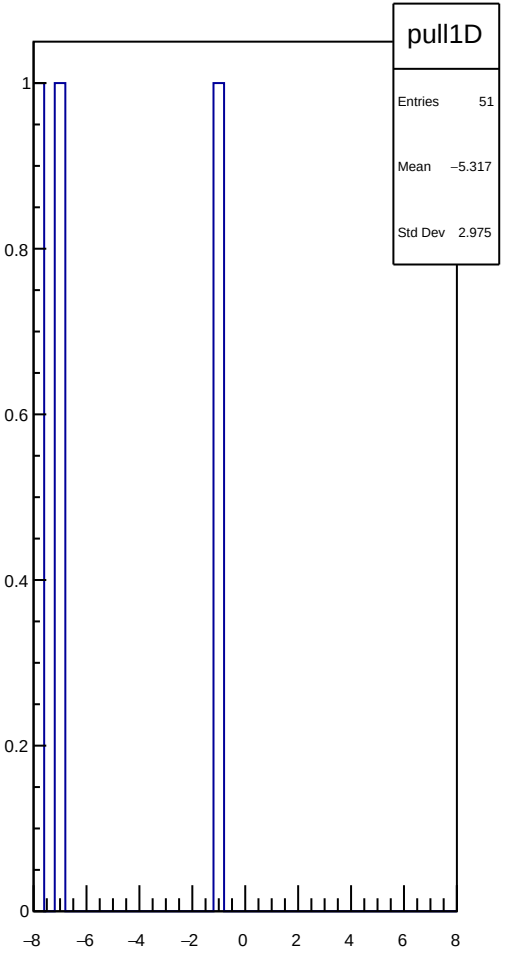

yield_bpm0l07X_rms vs run
χ² / ndf 5.228e+04 / 50
p0 0.01825 ± 1.847e–05
0.06
0.05
0.04
0.03
0.02
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
7967. 1
7971. 0
7971. 1
7971. 2
7972. 0
7972. 1
7972. 2
7973. 0
7973. 1
7973. 2
7974. 1
7975. 0
7976. 0
7976. 1
7977. 0
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

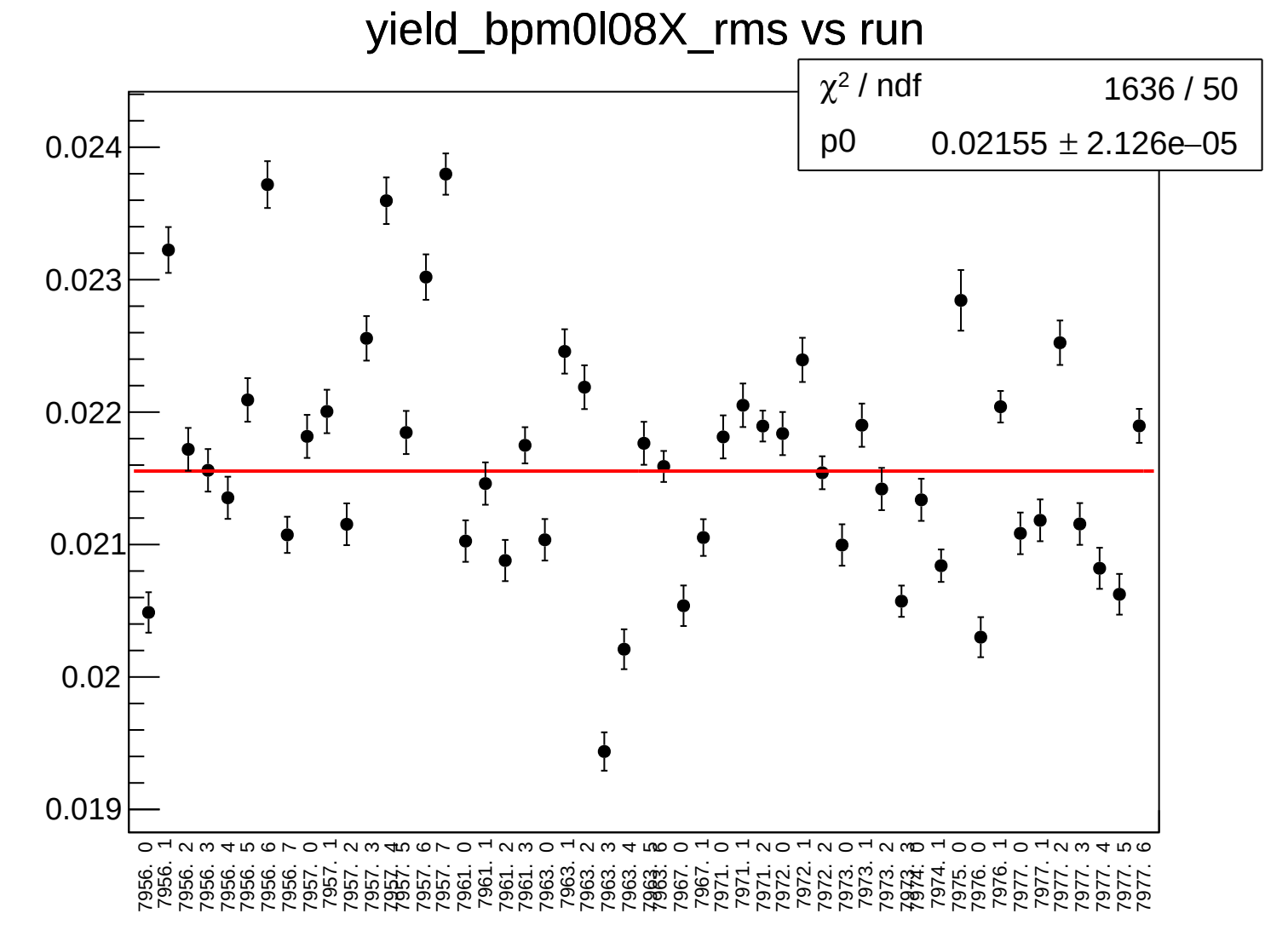

yield_bpm0l07Y_mean vs run
χ² / ndf 5.571e+06 / 50
p0 0.3583 ± 4.498e−06
0.38
0.37
0.36
0.35
0.34
pull
Entries 51
Mean 250.7
Std Dev 220.3
800
600
400
200
0
−200
−400
−600

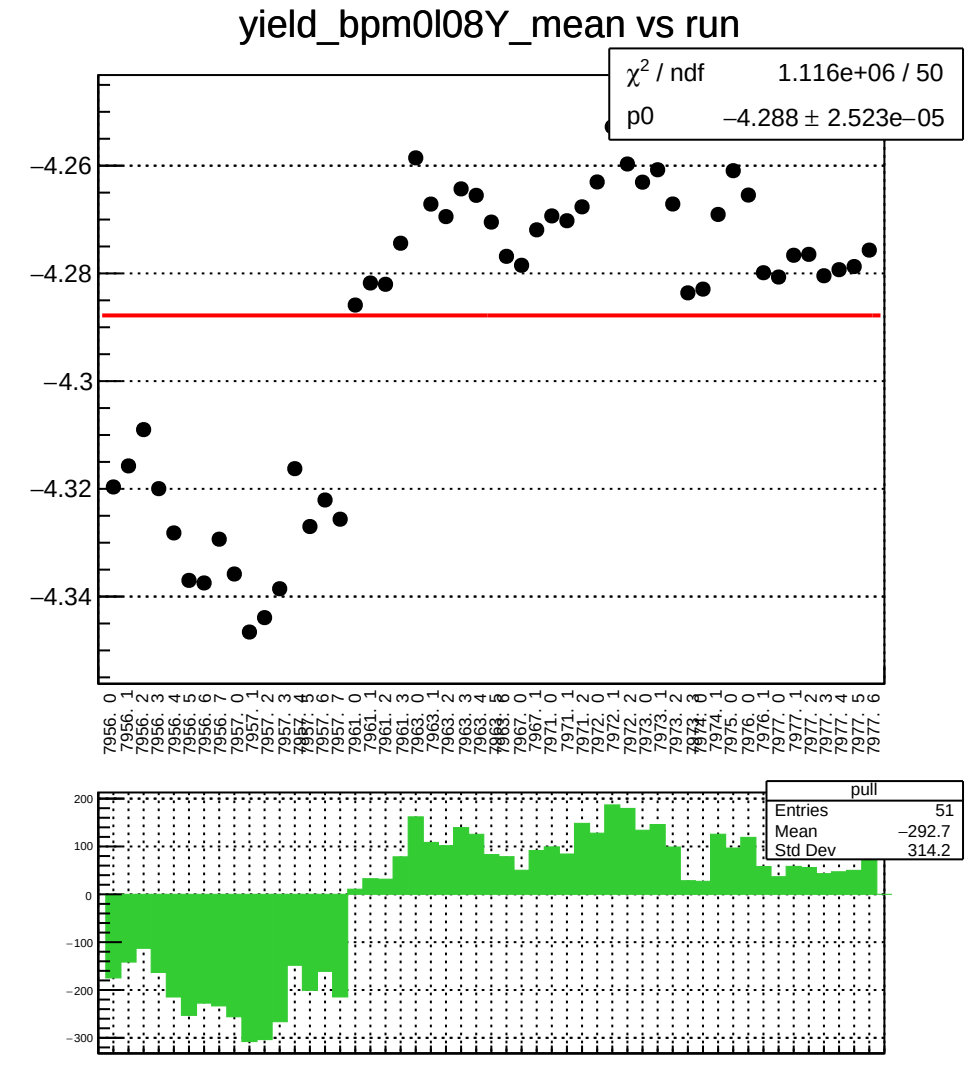

pull1D
Entries 51
Mean 0.4046
Std Dev 1.902
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

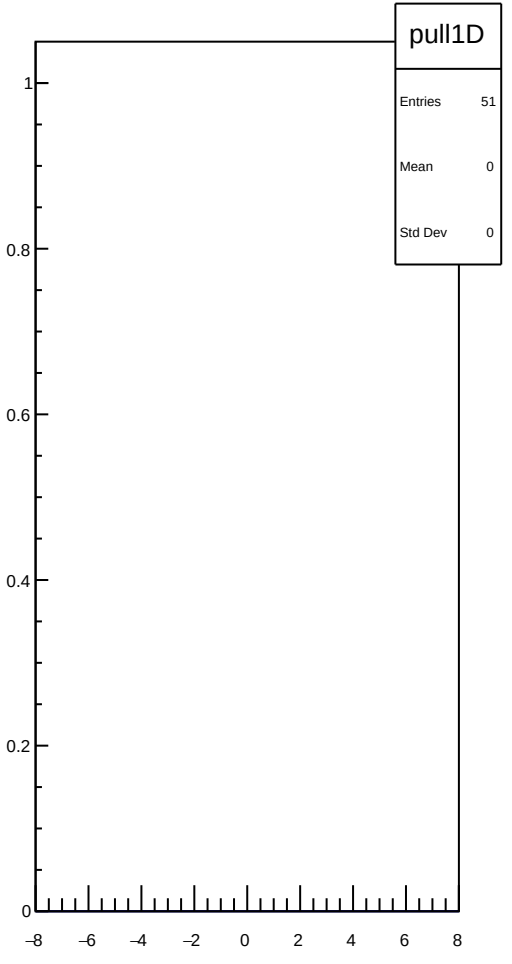

yield_bpm0l07Y_rms vs run
χ² / ndf 3.475e+04 / 50
p0 0.003172 ± 3.18e–06
0.008
0.007
0.006
0.005
0.004
0.003
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 0
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

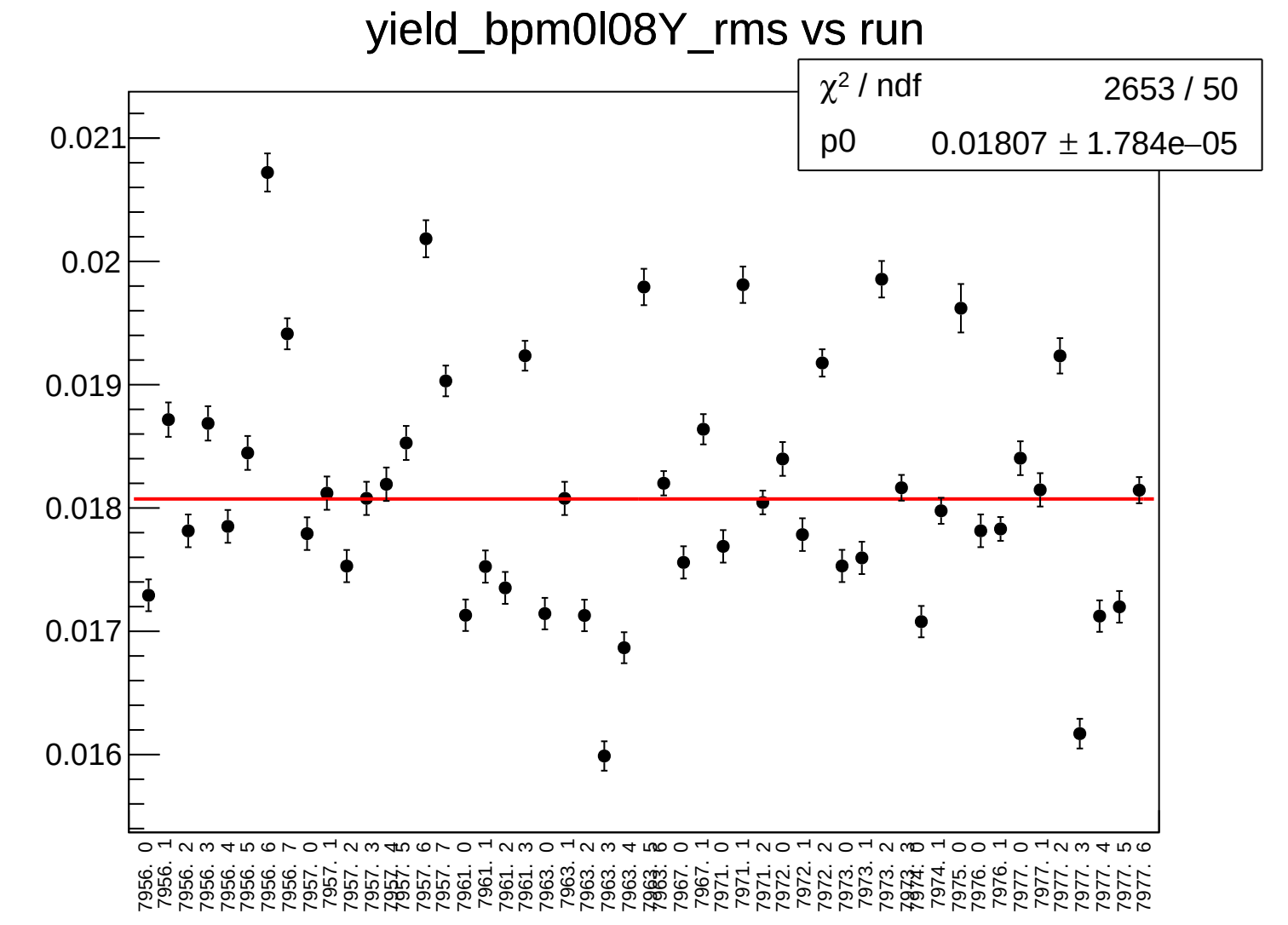

yield_bpm0l08X_mean vs run
χ² / ndf 3.529e+05 / 50
p0 2.287 ± 3.007e−05
pull
Entries 51
Mean −301.6
Std Dev 323.8


pull1D
Entries 51
Mean −5.317
Std Dev 2.975


yield_bpm0l08X_rms vs run
χ² / ndf 1636 / 50
p0 0.02155 ± 2.126e–05
0.024
0.023
0.022
0.021
0.02
0.019


yield_bpm0l08Y_mean vs run
χ² / ndf 1.116e+06 / 50
p0 −4.288 ± 2.523e−05
−4.26
−4.28
−4.3
−4.32
−4.34
pull
Entries 51
Mean −292.7
Std Dev 314.2
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_bpm0l08Y_rms vs run
χ² / ndf 2653 / 50
p0 0.01807 ± 1.784e–05
0.021
0.02
0.019
0.018
0.017
0.016
7956. 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. 0
7977. 1
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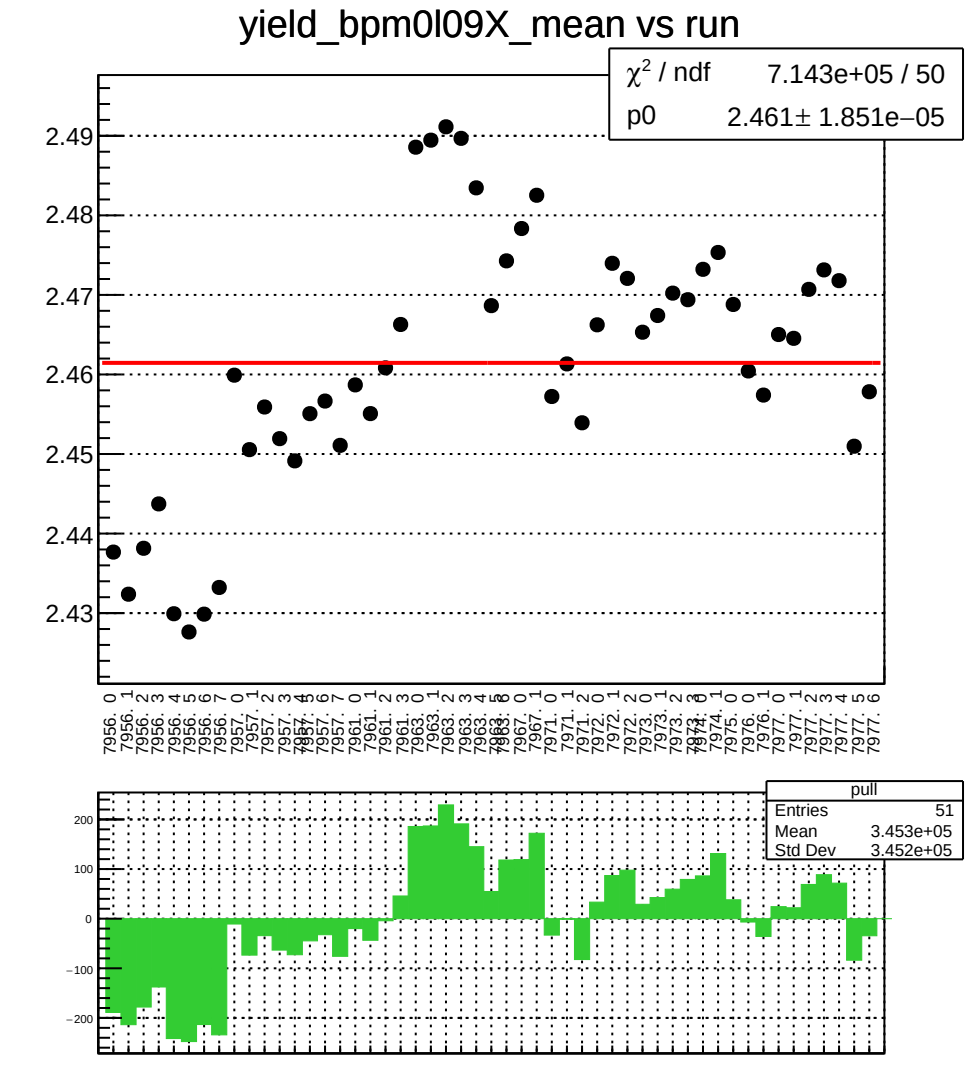
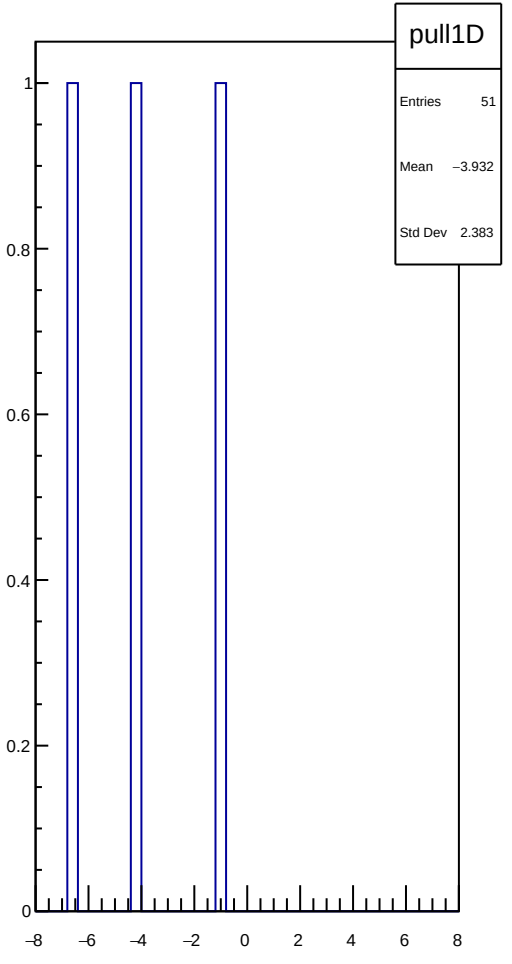
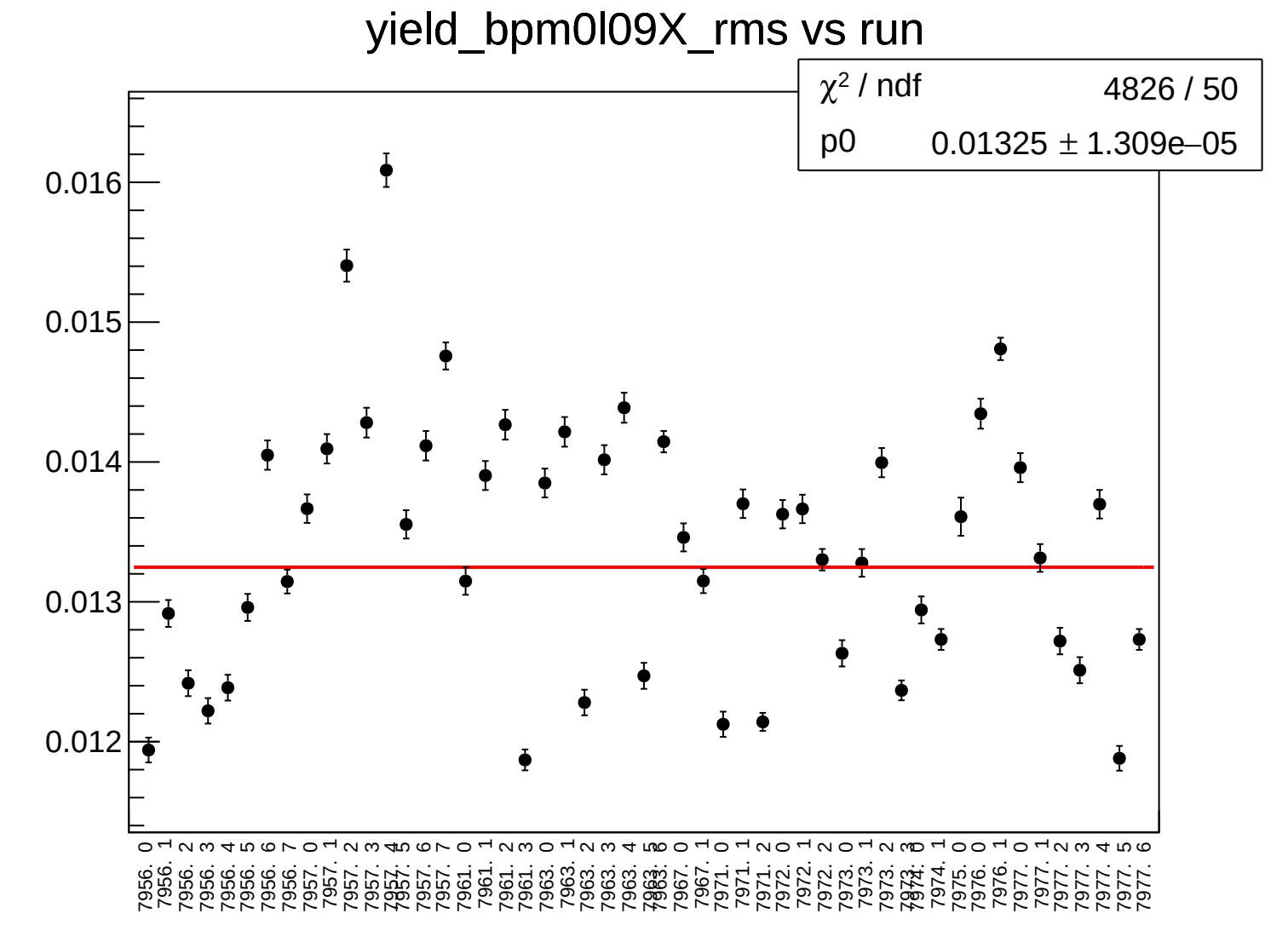
7977. 3
7977. 4
7977. 5
7977. 6


yield_bpm0l09X_mean vs run
χ² / ndf 7.143e+05 / 50
p0 2.461± 1.851e−05
2.49
2.48
2.47
2.46
2.45
2.44
2.43
pull
Entries 51
Mean 3.453e+05
Std Dev 3.452e+05
200
100
0
−100
−200


pull1D
Entries 51
Mean −3.932
Std Dev 2.383
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l09X_rms vs run
χ² / ndf 4826 / 50
p0 0.01325 ± 1.309e–05
0.016
0.015
0.014
0.013
0.012
7956. 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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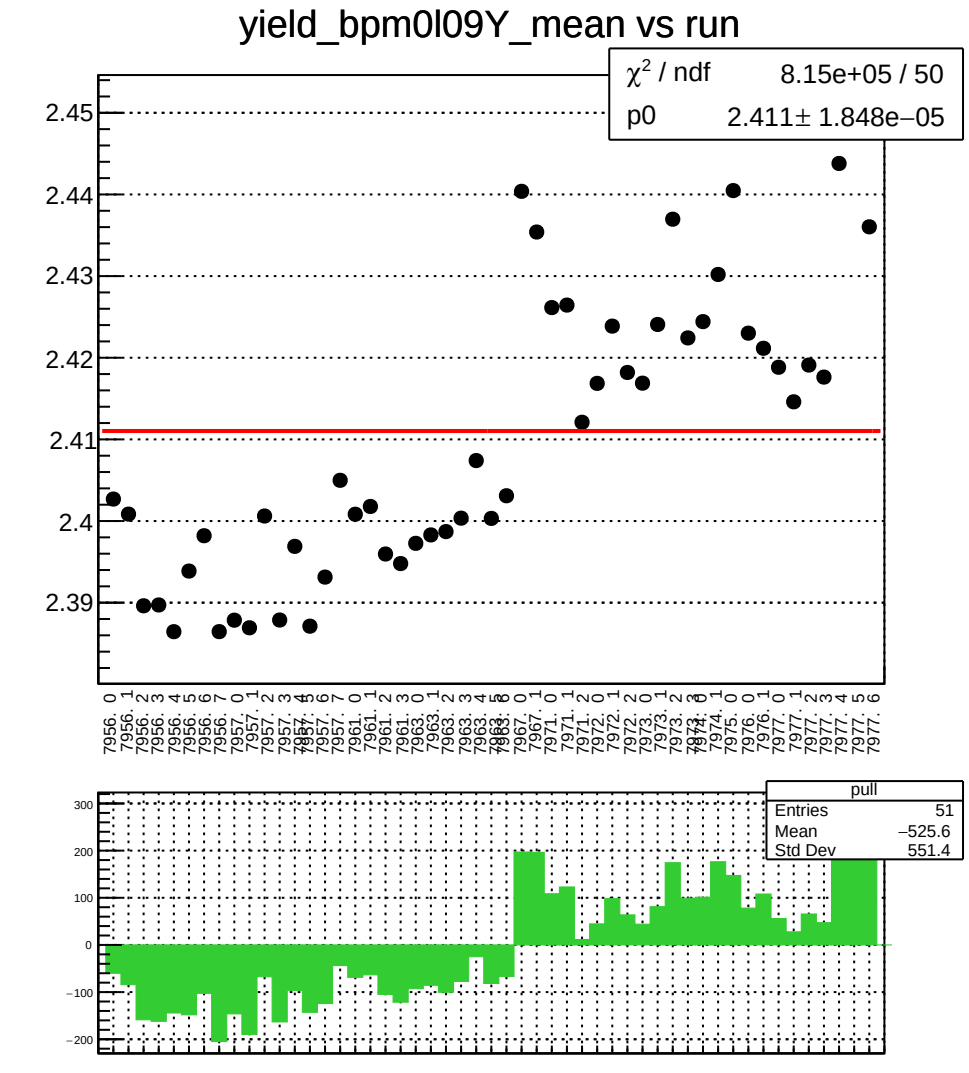
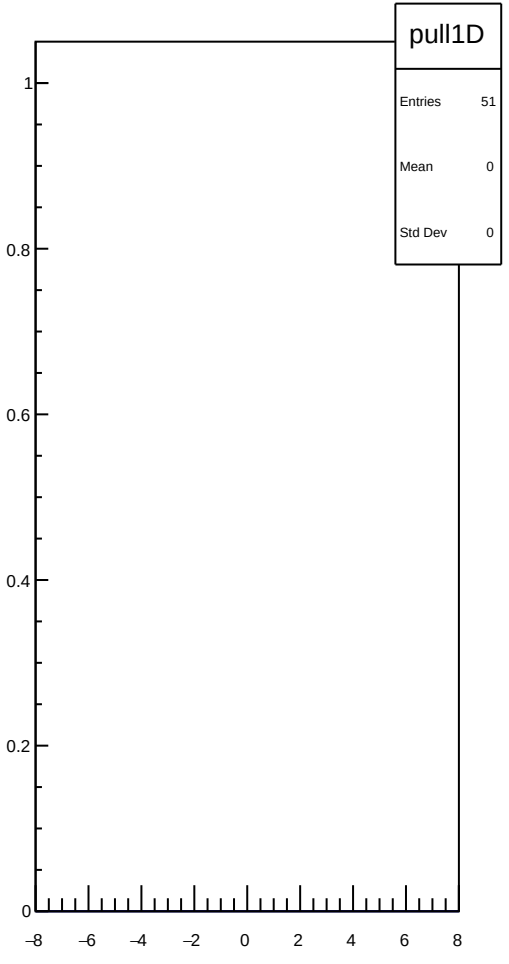
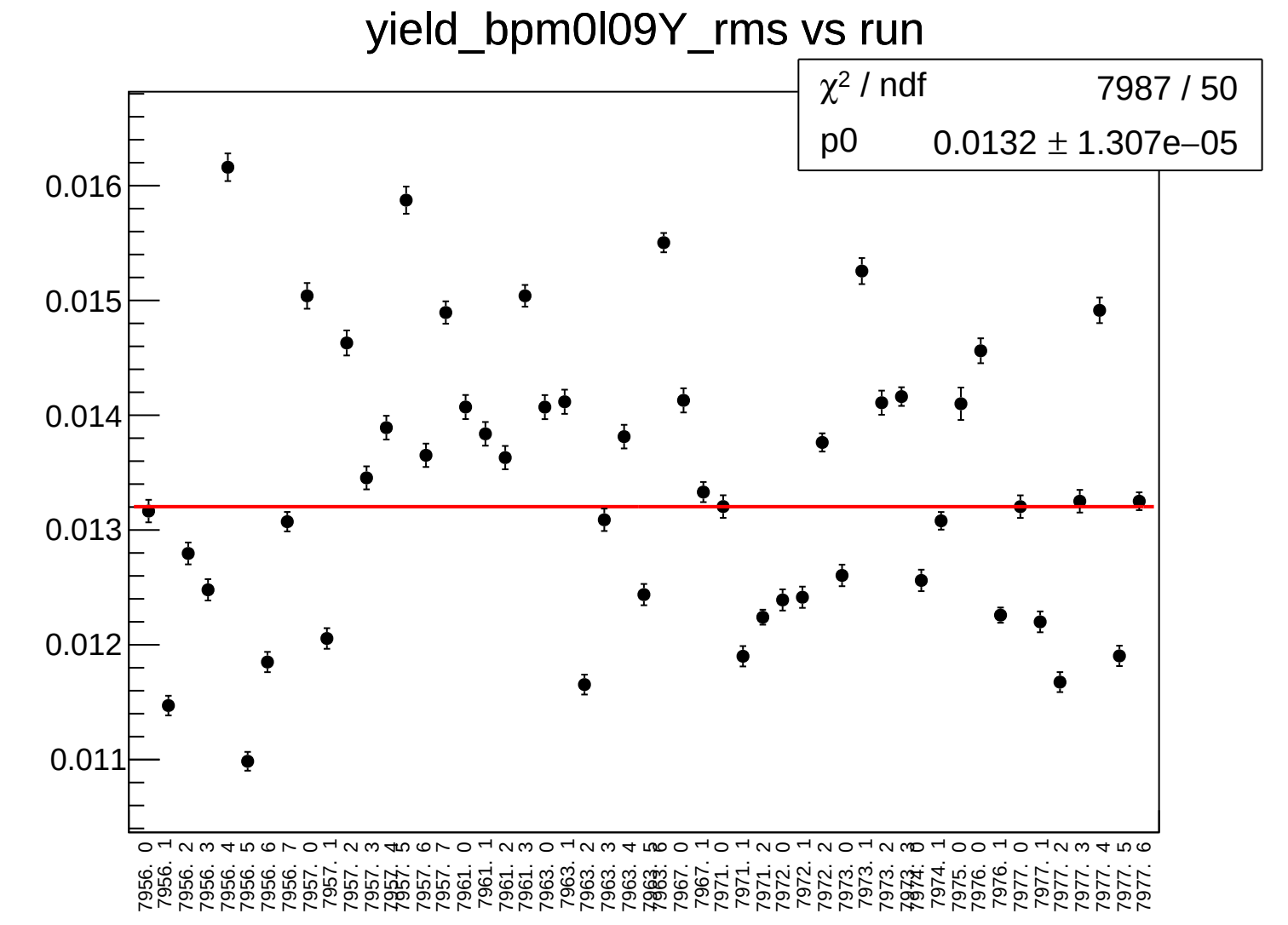
7977. 5
7977. 6


yield_bpm0l09Y_mean vs run
χ² / ndf 8.15e+05 / 50
p0 2.411± 1.848e−05
2.45
2.44
2.43
2.42
2.41
2.4
2.39
pull
Entries 51
Mean −525.6
Std Dev 551.4
300
200
100
0
−100
−200


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_bpm0l09Y_rms vs run
χ² / ndf 7987 / 50
p0 0.0132 ± 1.307e−05
0.016
0.015
0.014
0.013
0.012
0.011
7956. 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
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7977. 3
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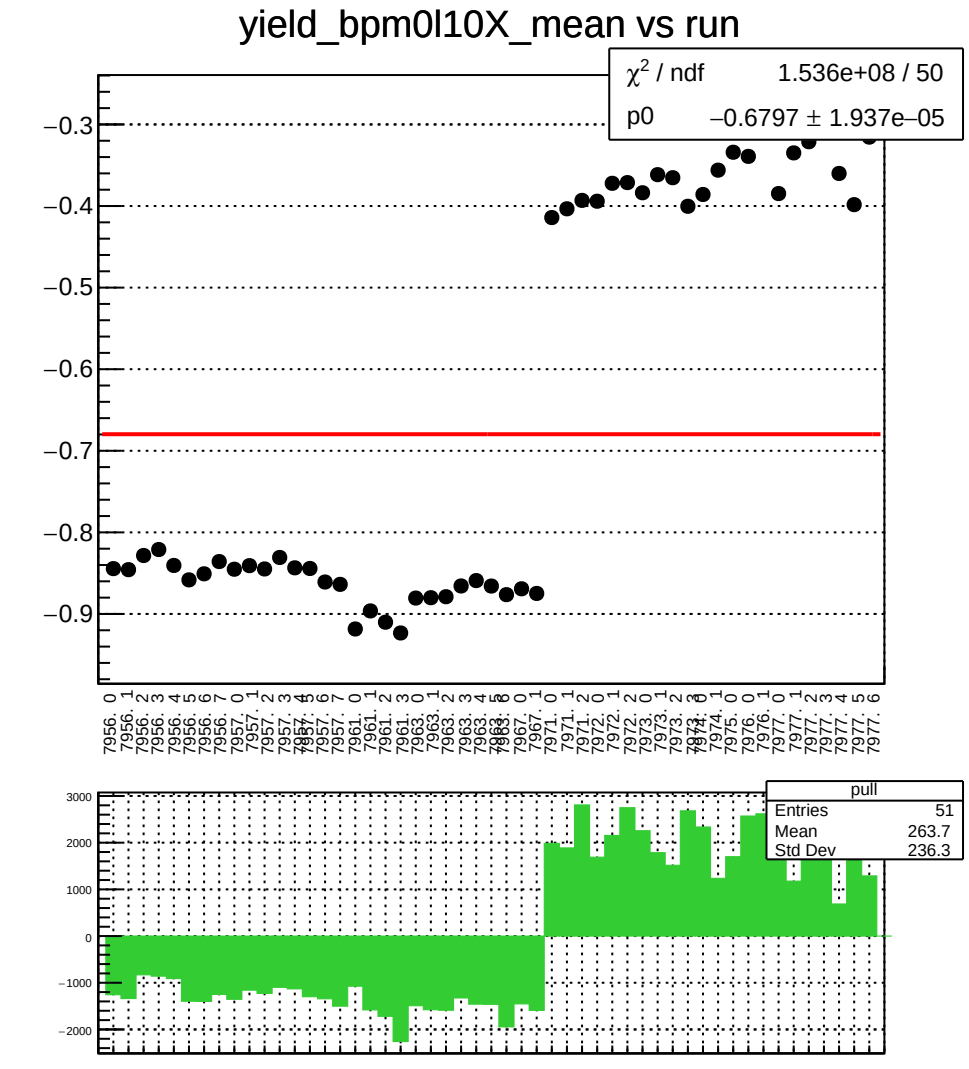
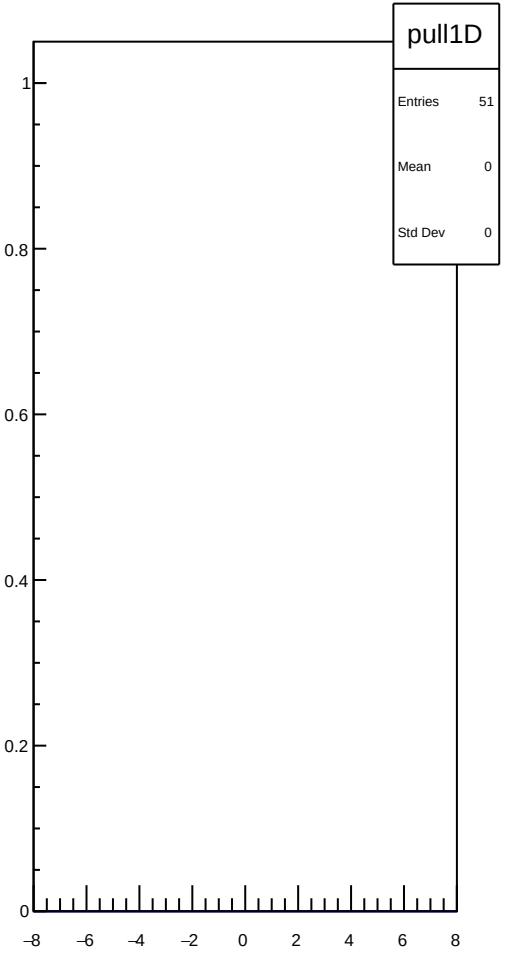
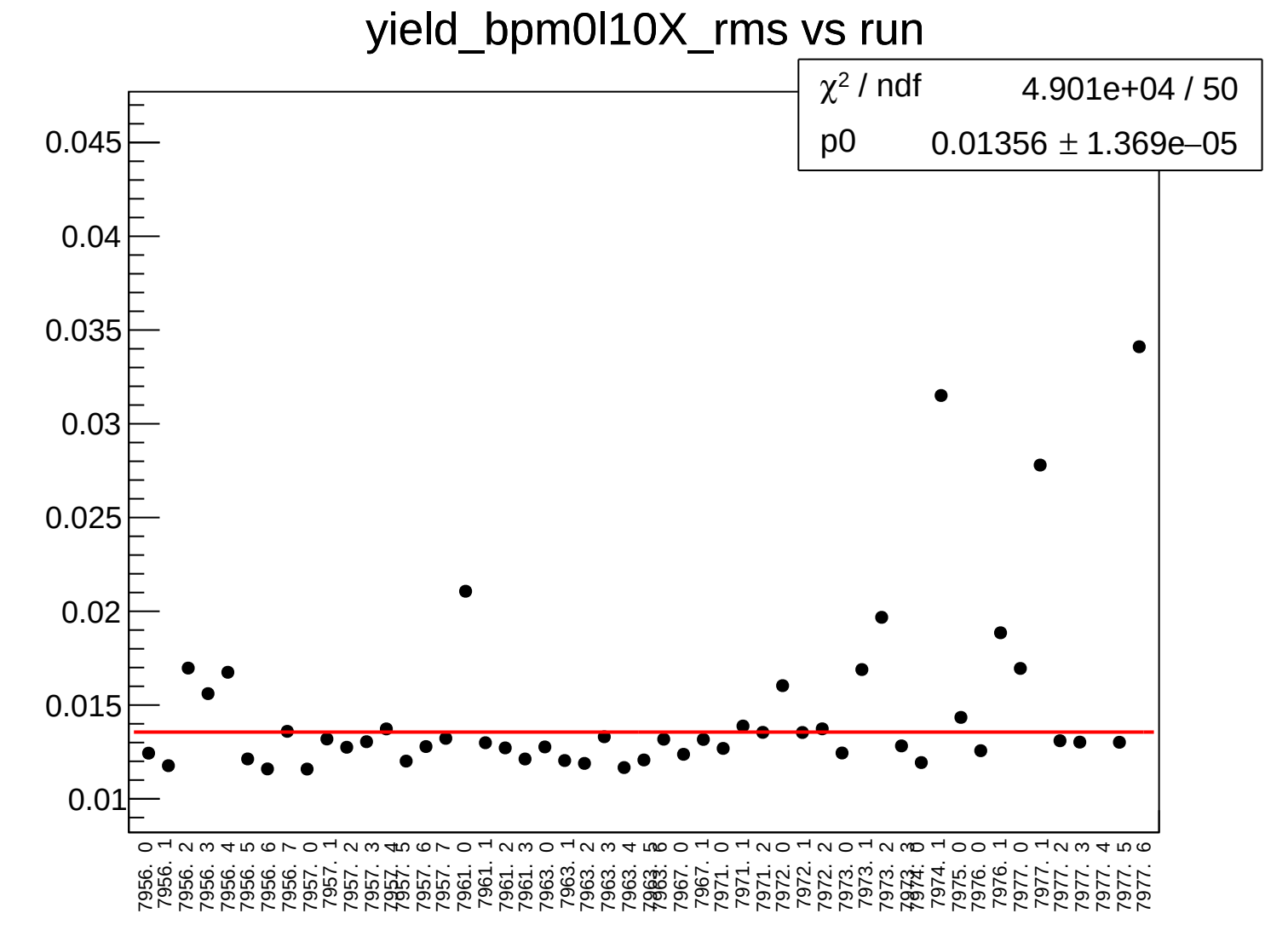
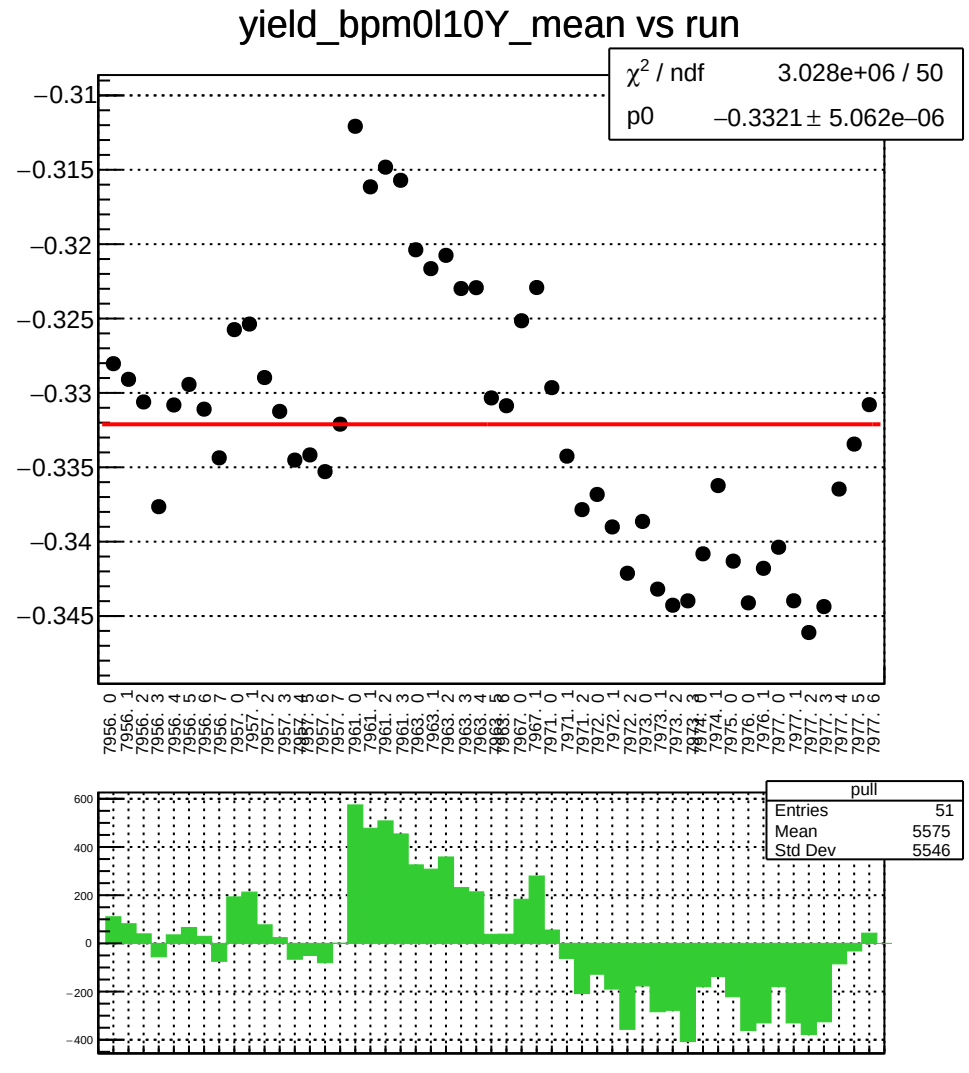
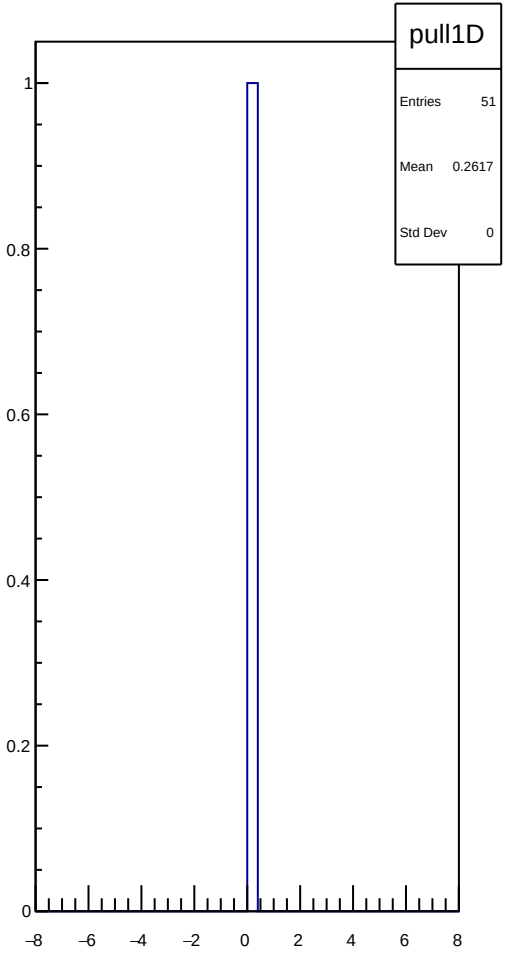
7977. 5
7977. 6

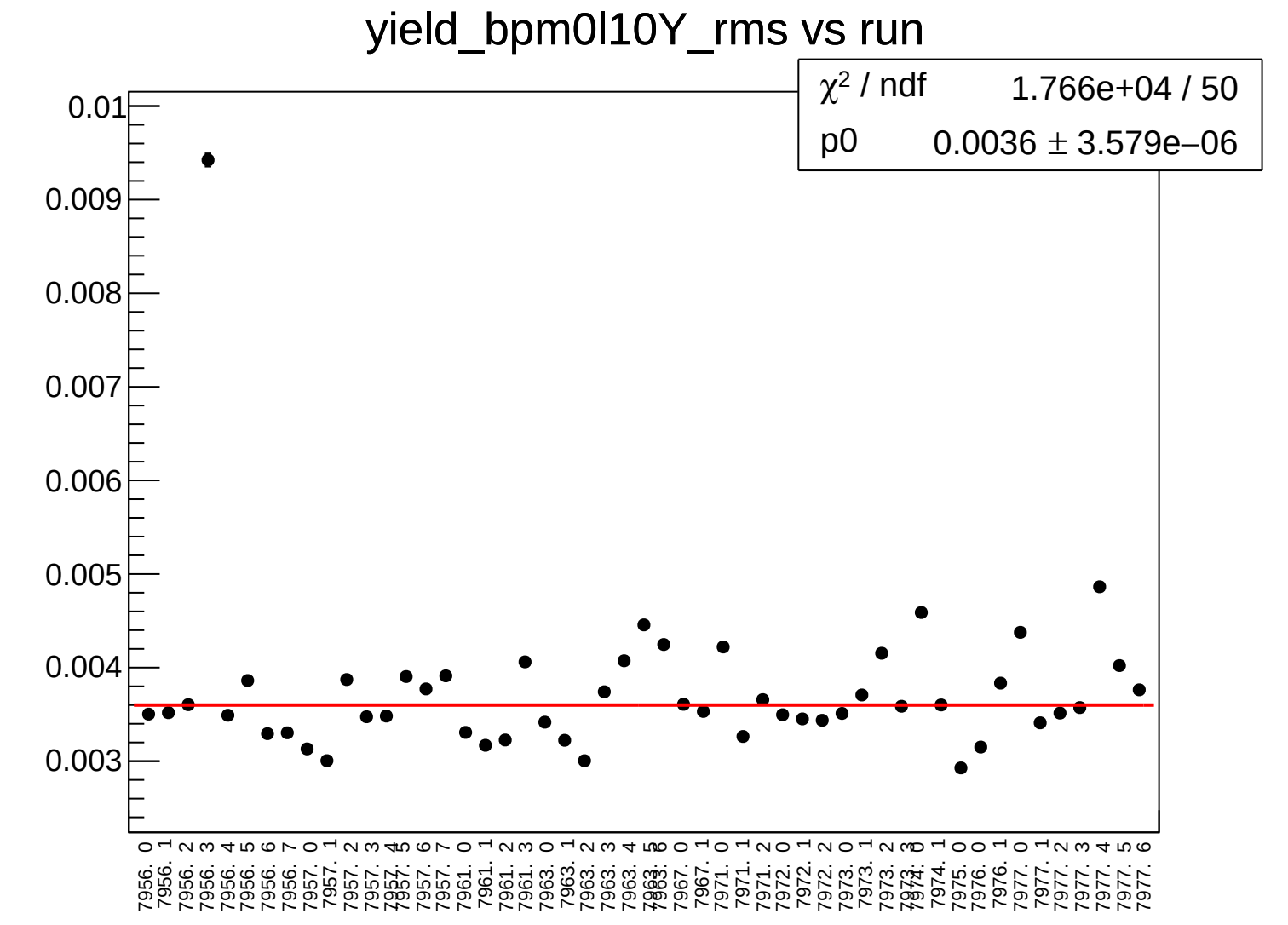

yield_bpm0l10X_mean vs run
χ² / ndf 1.536e+08 / 50
p0 −0.6797 ± 1.937e−05
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 51
Mean 263.7
Std Dev 236.3
3000
2000
1000
0
−1000
−2000

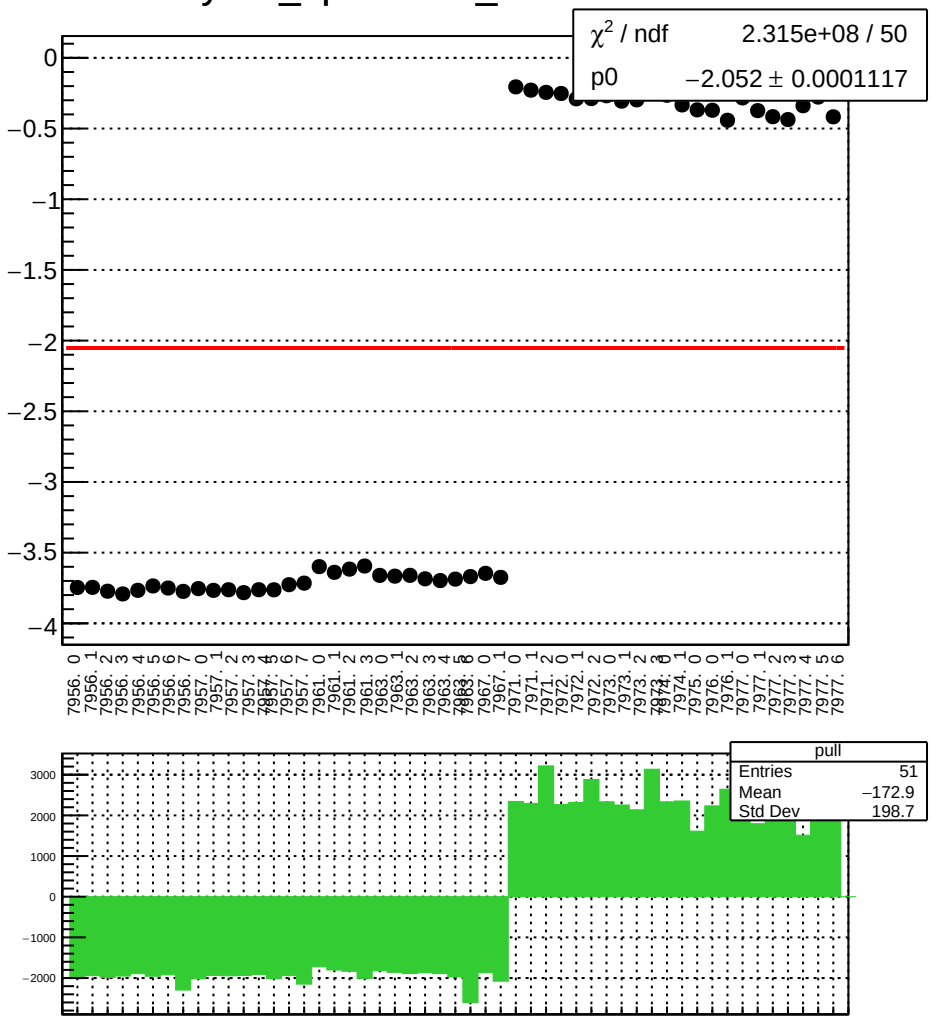

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

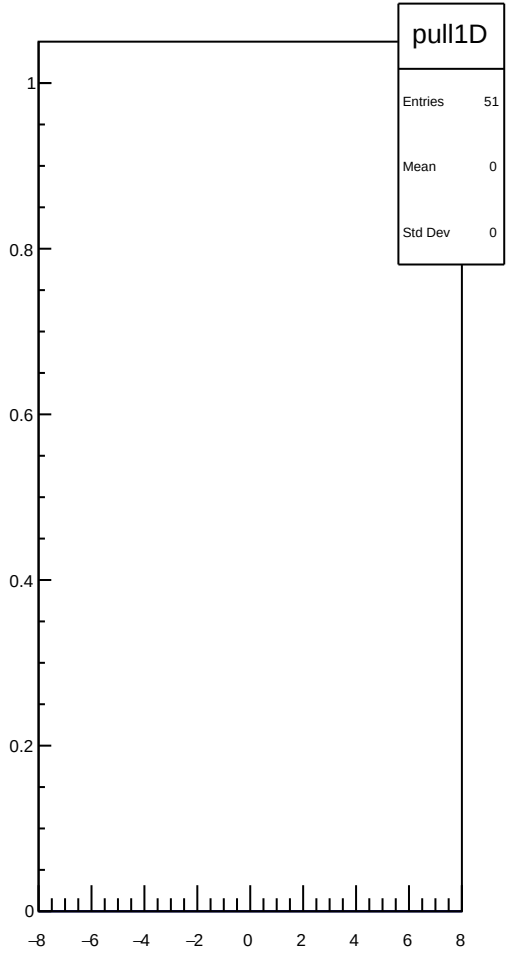

yield_bpm0l10X_rms vs run
χ² / ndf 4.901e+04 / 50
p0 0.01356 ± 1.369e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
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
7977. 1
7977. 2
7977. 3
7977. 4
7977. 5
7977. 6

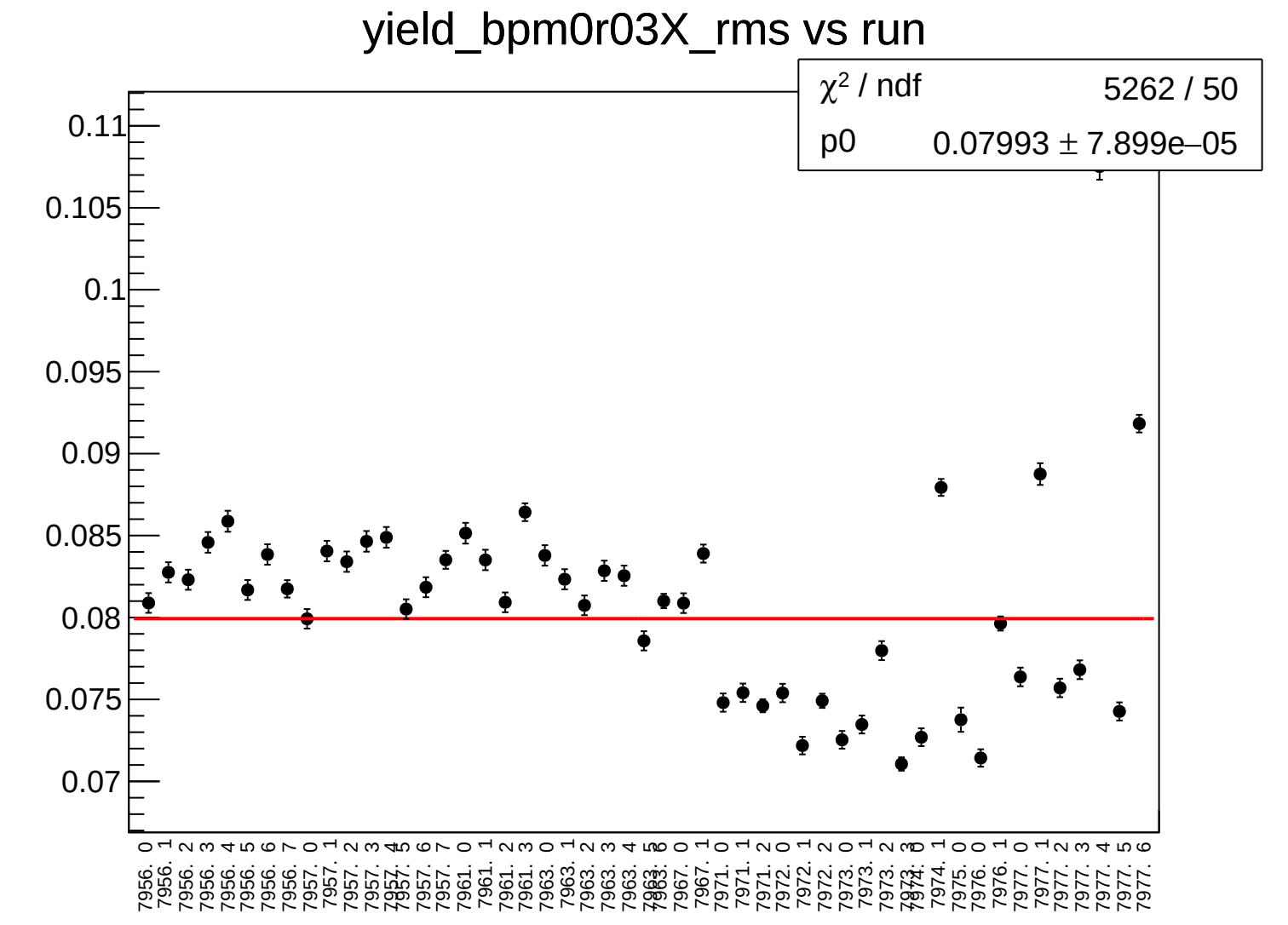

yield_bpm0l10Y_mean vs run
χ² / ndf 3.028e+06 / 50
p0 −0.3321 ± 5.062e−06
−0.31
−0.315
−0.32
−0.325
−0.33
−0.335
−0.34
−0.345
pull
Entries 51
Mean 5575
Std Dev 5546
600
400
200
0
−200
−400

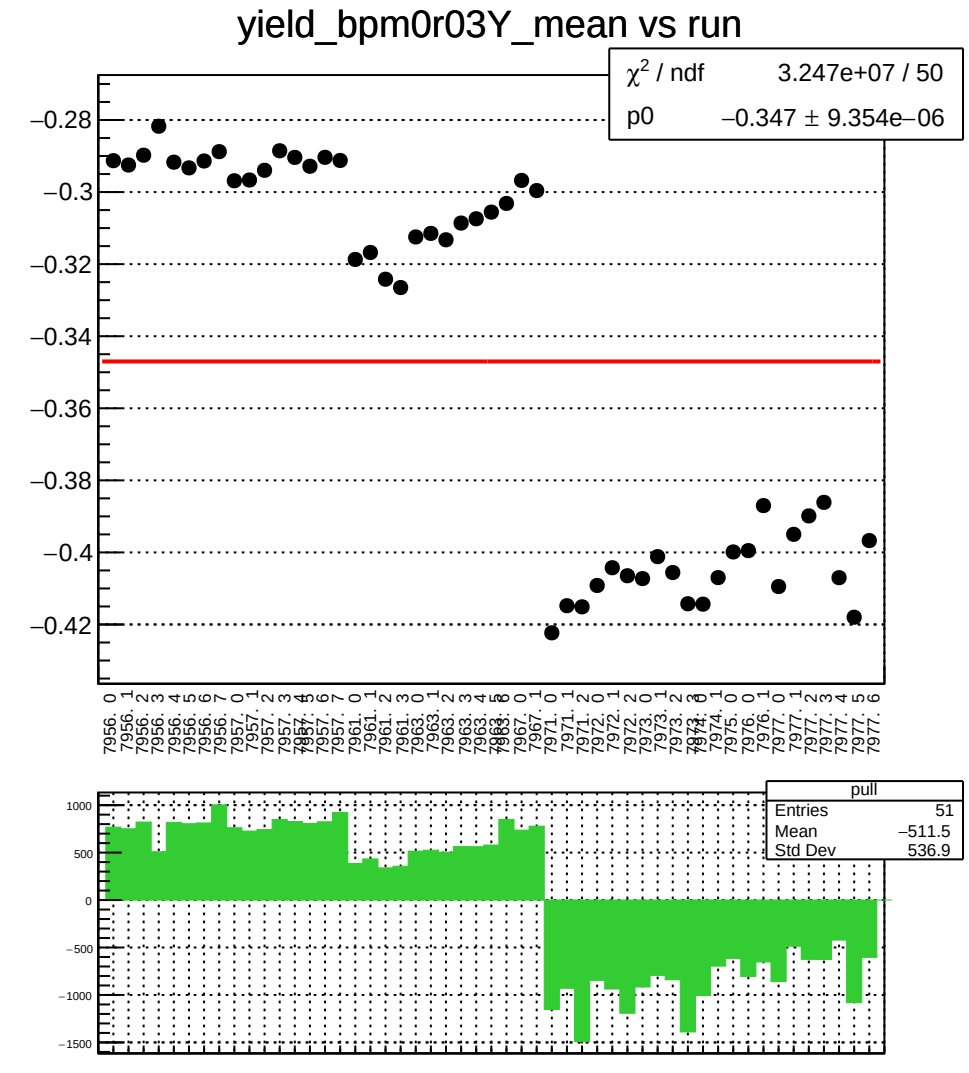

pull1D
Entries 51
Mean 0.2617
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

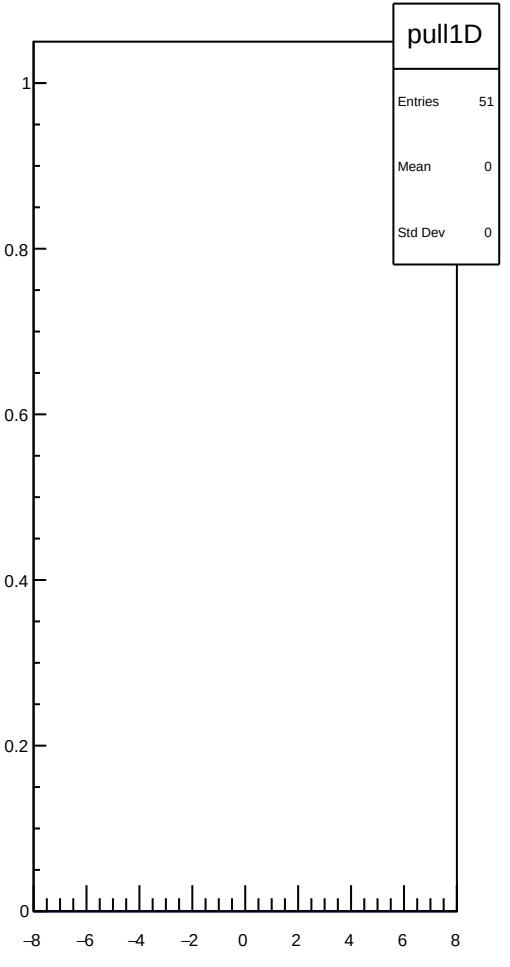

yield_bpm0l10Y_rms vs run
χ² / ndf 1.766e+04 / 50
p0 0.0036 ± 3.579e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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

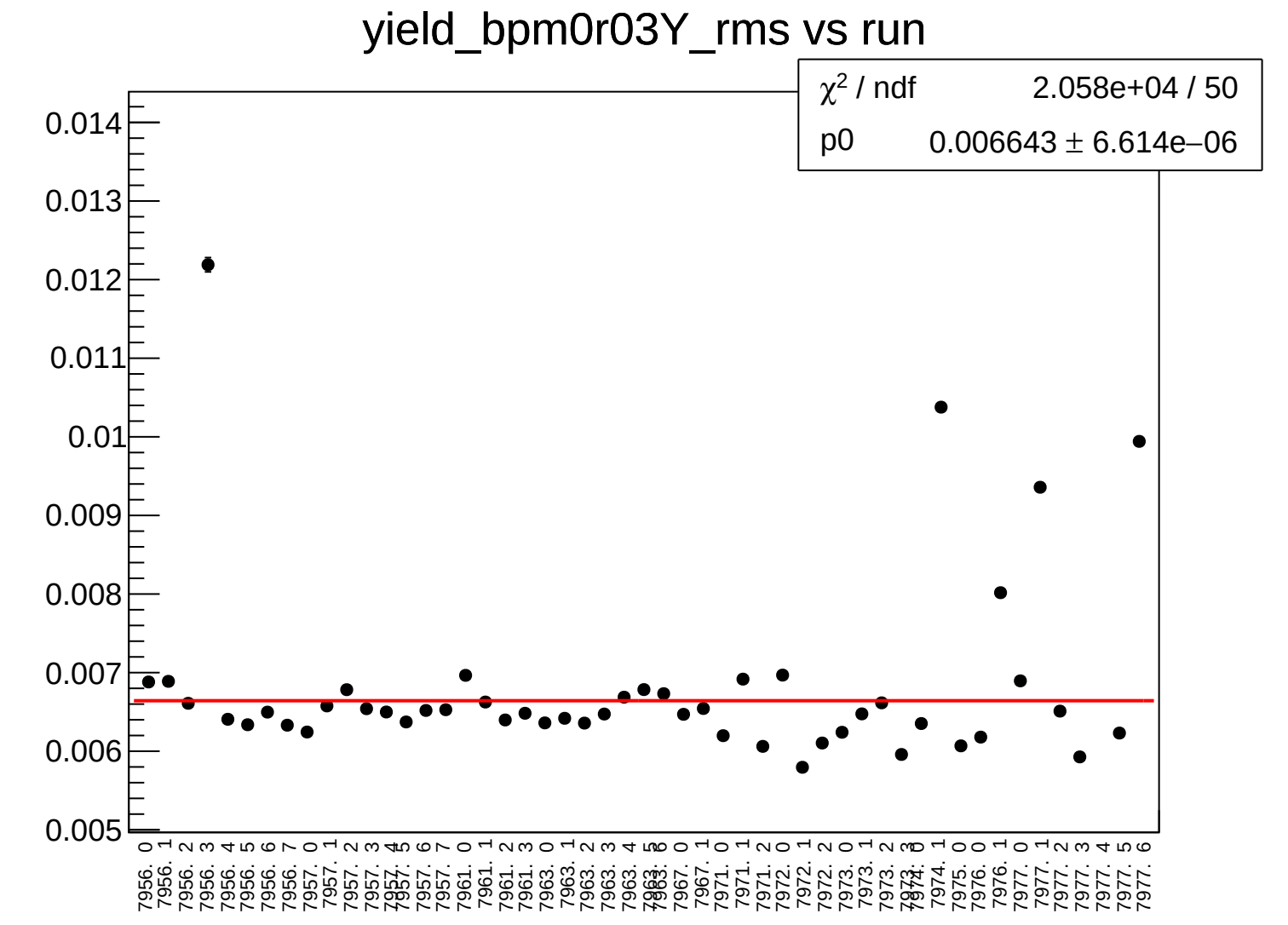

yield_bpm0r03X_mean vs run
χ² / ndf 2.315e+08 / 50
p0 −2.052 ± 0.0001117
pull
Entries 51
Mean −172.9
Std Dev 198.7

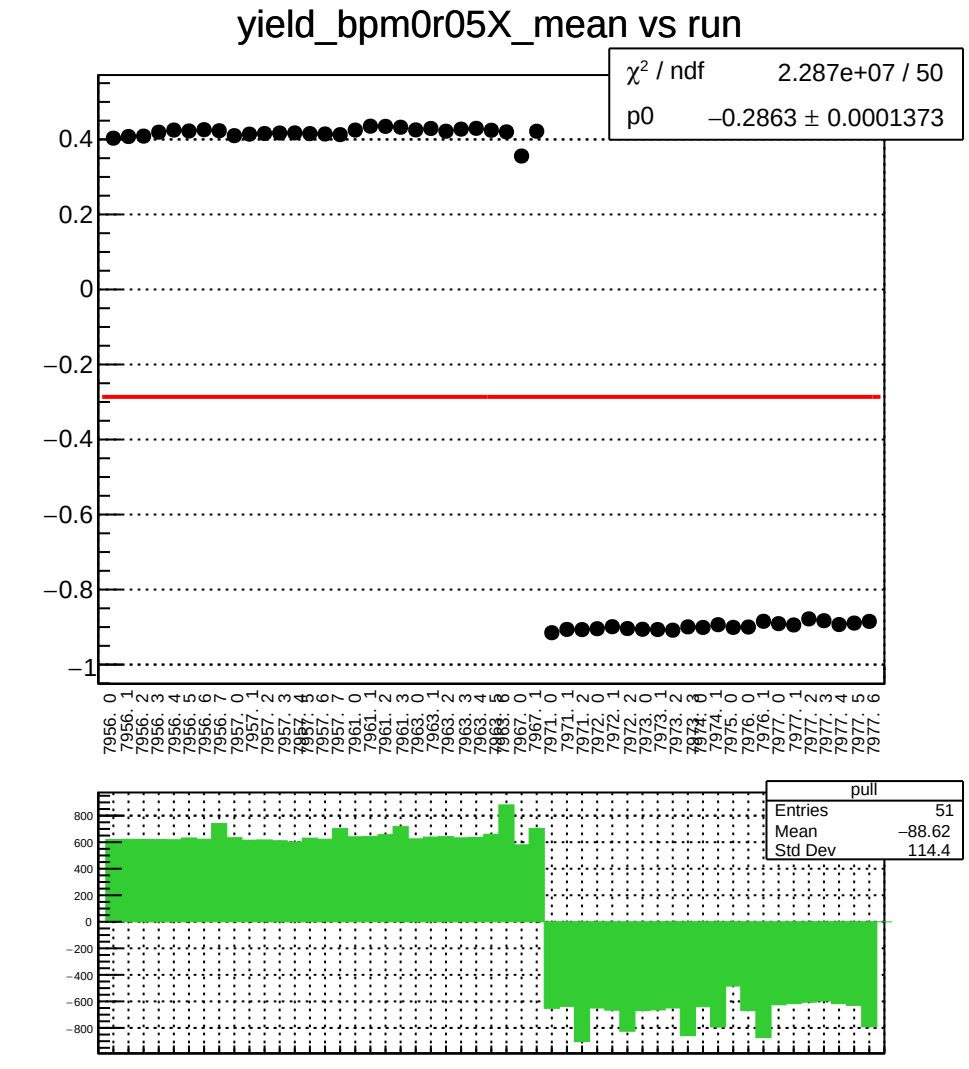

pull1D
Entries 51
Mean 0
Std Dev 0

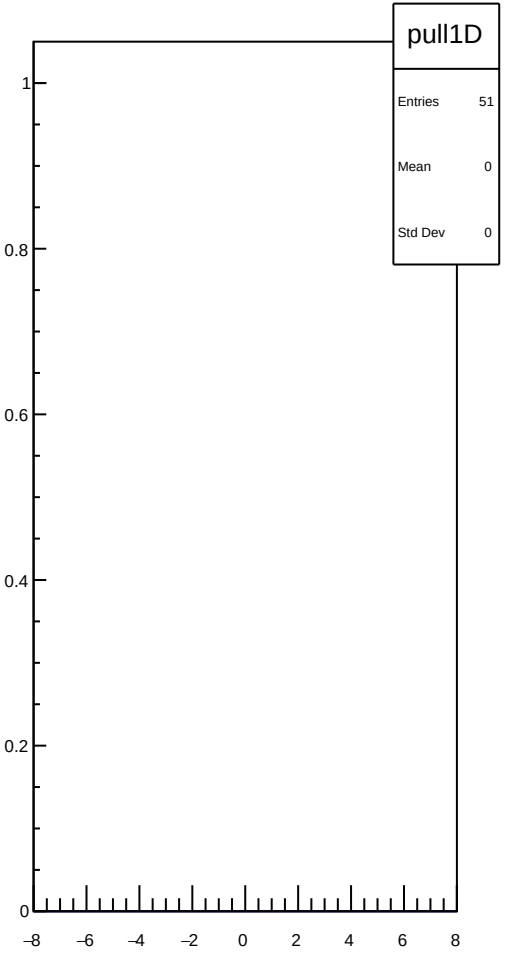

yield_bpm0r03X_rms vs run
χ² / ndf 5262 / 50
p0 0.07993 ± 7.899e−05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 4
7967. 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

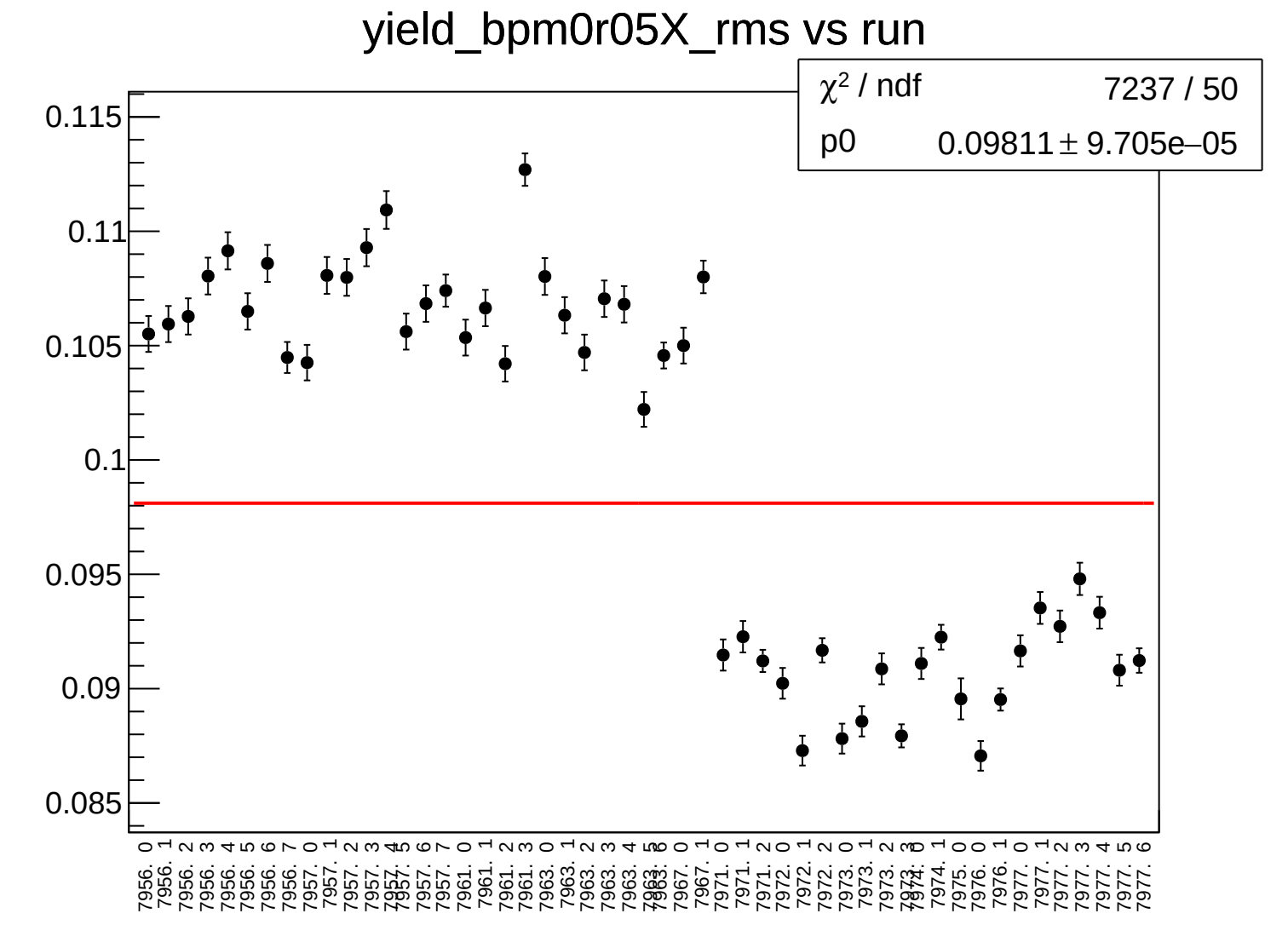

yield_bpm0r03Y_mean vs run
χ² / ndf 3.247e+07 / 50
p0 −0.347 ± 9.354e−06
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
−0.42
pull
Entries 51
Mean −511.5
Std Dev 536.9
1000
500
0
−500
−1000
−1500

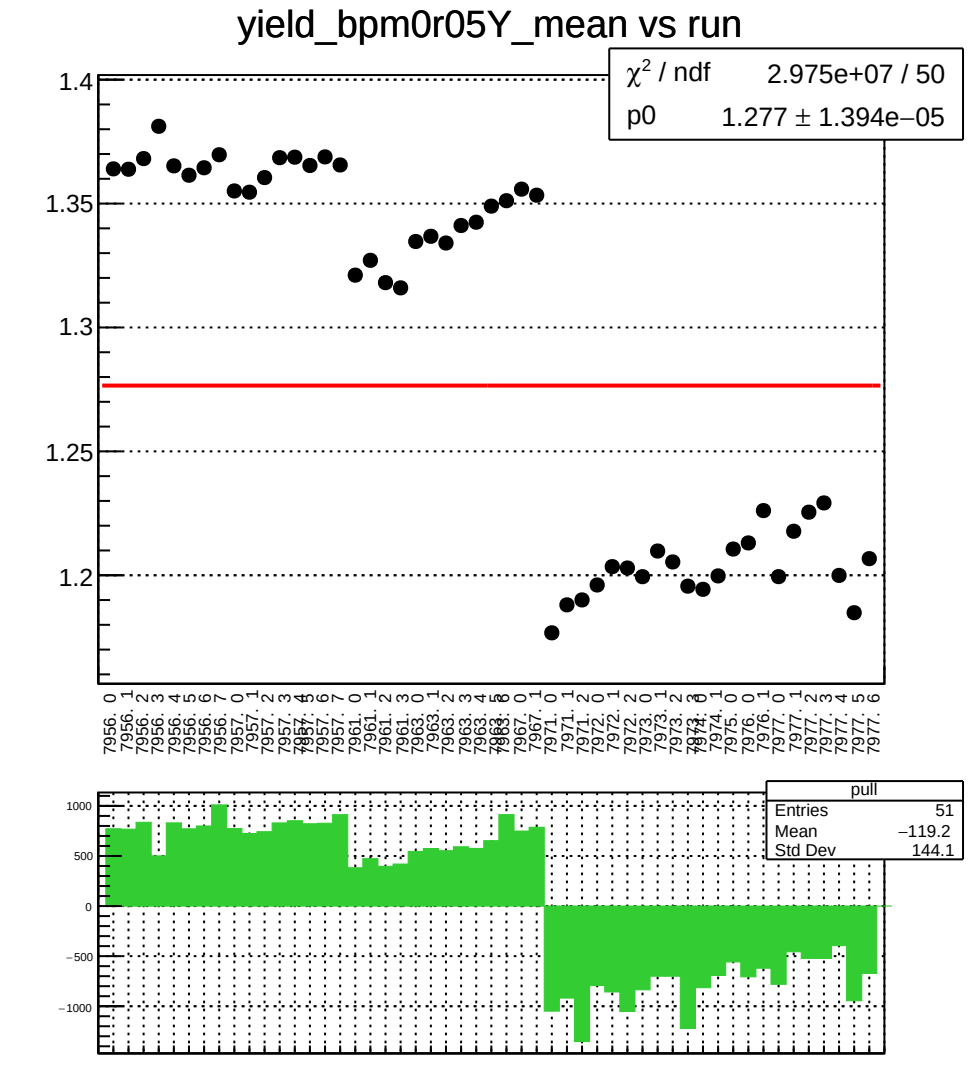

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

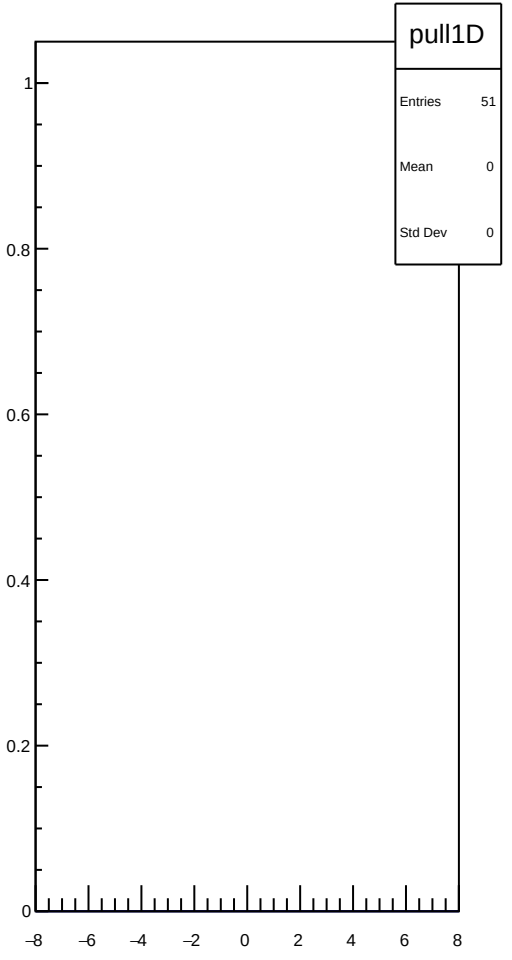

yield_bpm0r03Y_rms vs run
χ² / ndf 2.058e+04 / 50
p0 0.006643 ± 6.614e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
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

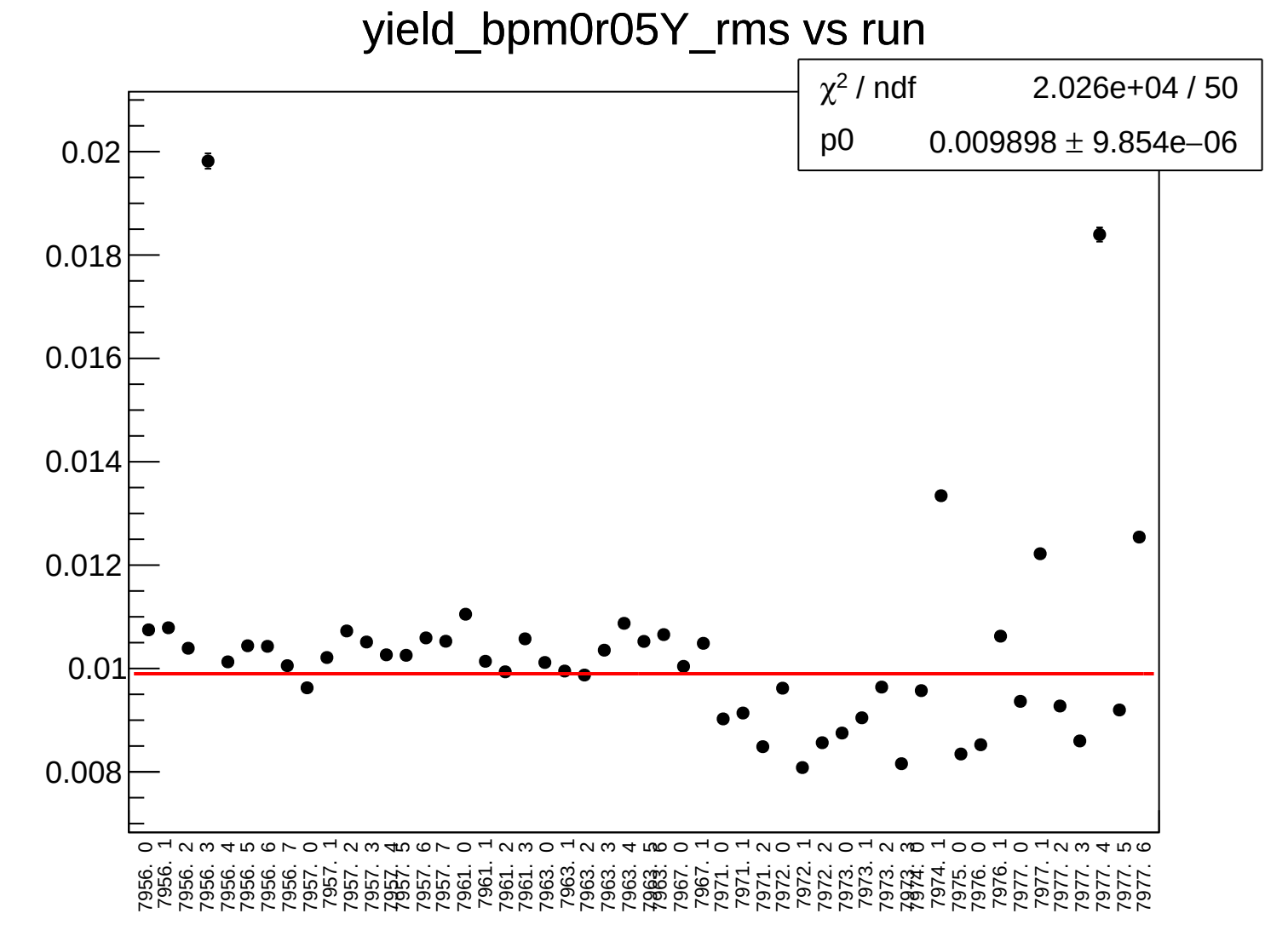

yield_bpm0r05X_mean vs run
χ² / ndf 2.287e+07 / 50
p0 −0.2863 ± 0.0001373
pull
Entries 51
Mean −88.62
Std Dev 114.4

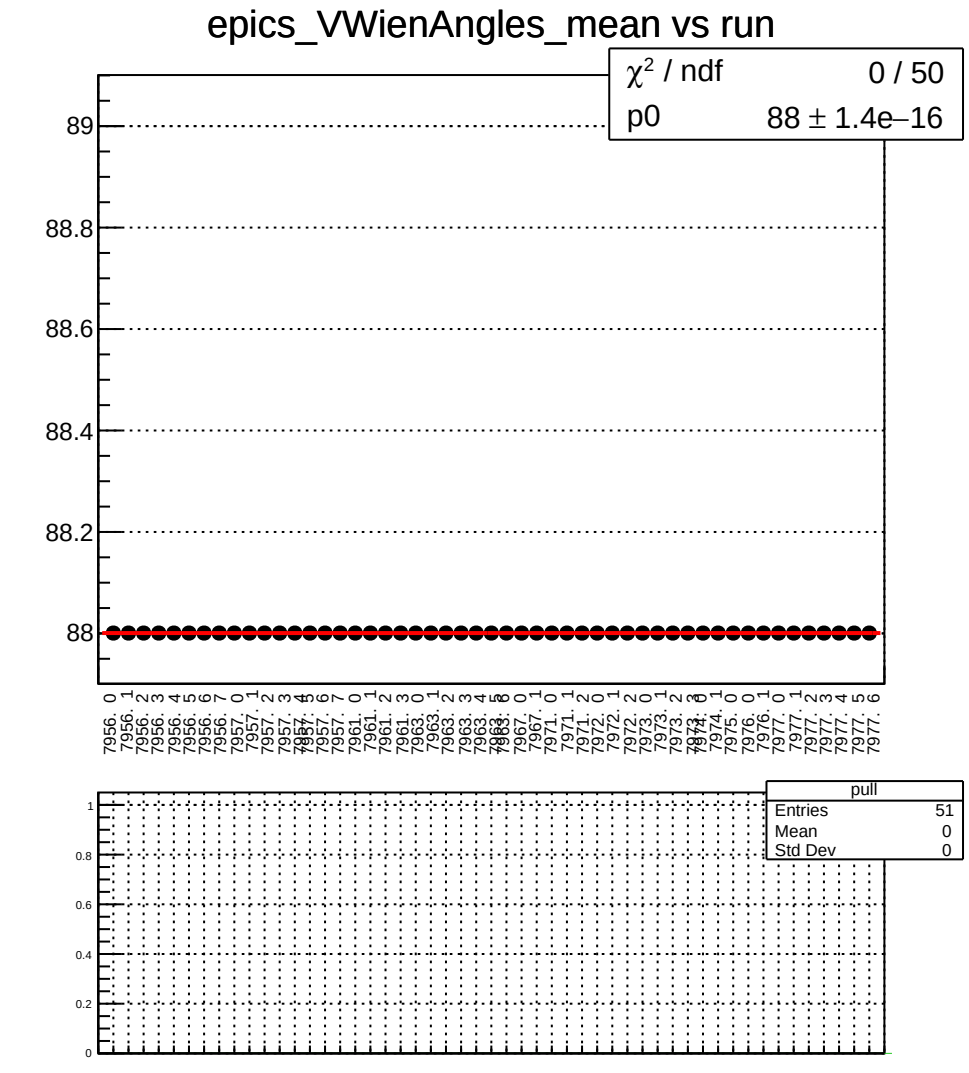

pull1D
Entries 51
Mean 0
Std Dev 0

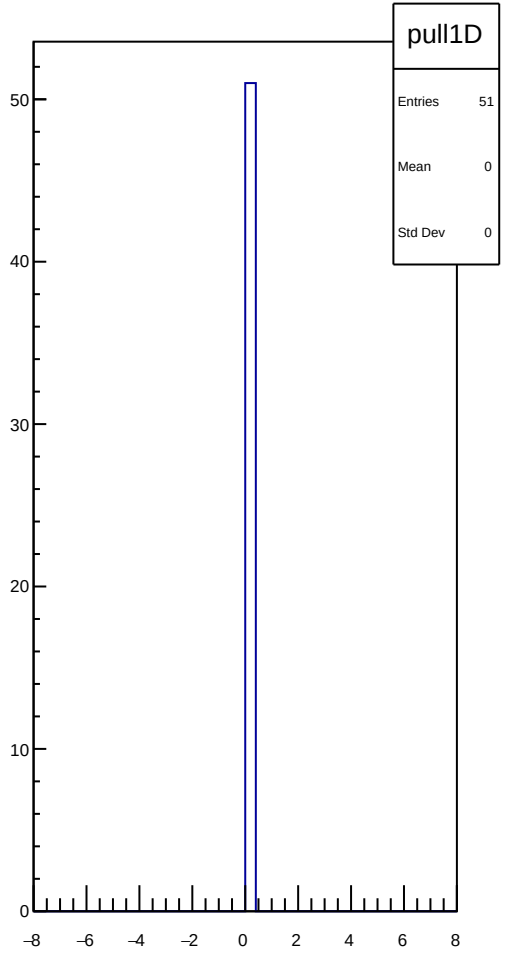

yield_bpm0r05X_rms vs run
χ² / ndf 7237 / 50
p0 0.09811 ± 9.705e–05
0.115
0.11
0.105
0.1
0.095
0.09
0.085
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 3
7963. 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

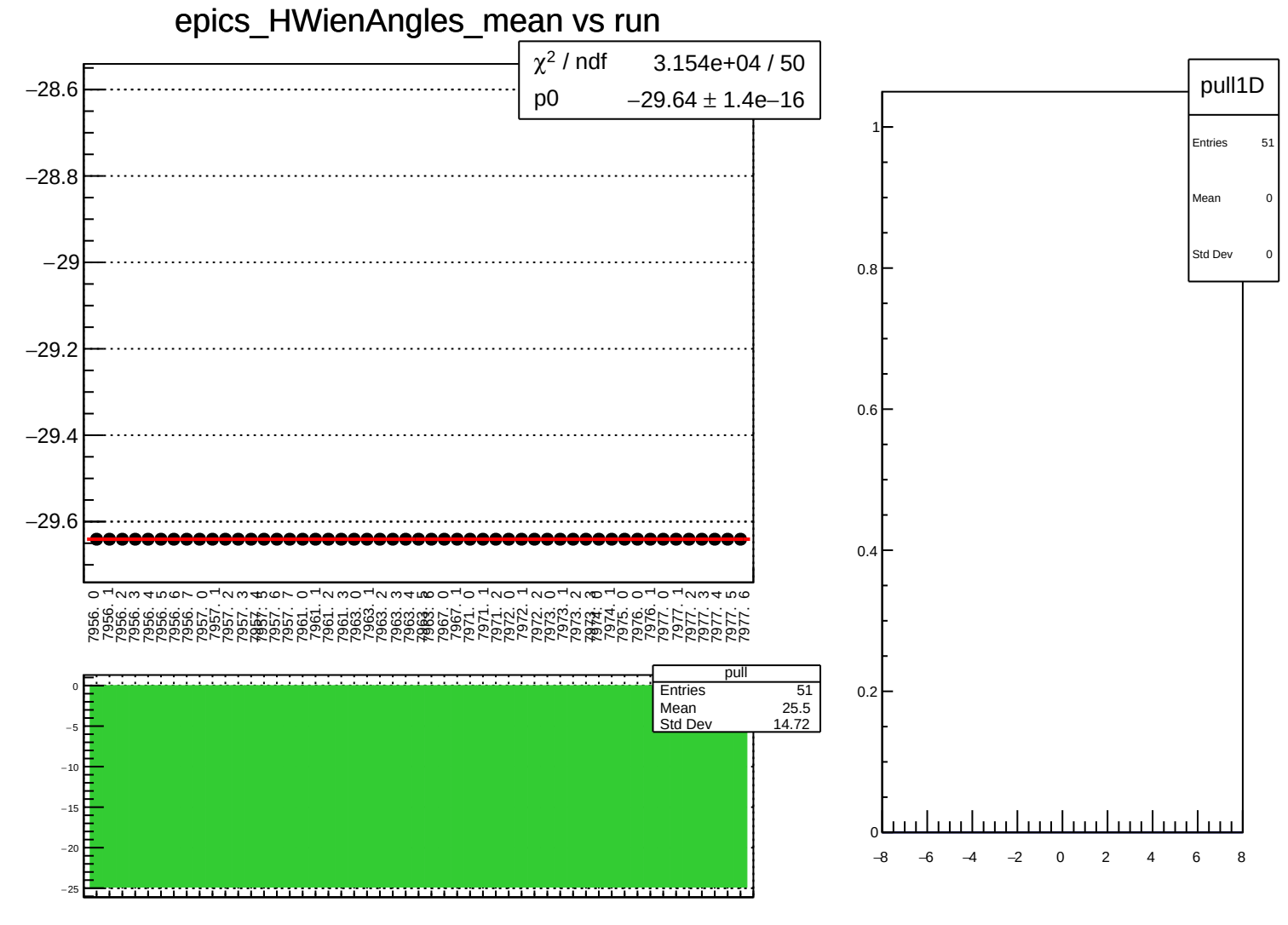

yield_bpm0r05Y_mean vs run
χ² / ndf 2.975e+07 / 50
p0 1.277 ± 1.394e−05
1.4
1.35
1.3
1.25
1.2
pull
Entries 51
Mean −119.2
Std Dev 144.1
1000
500
0
−500
−1000

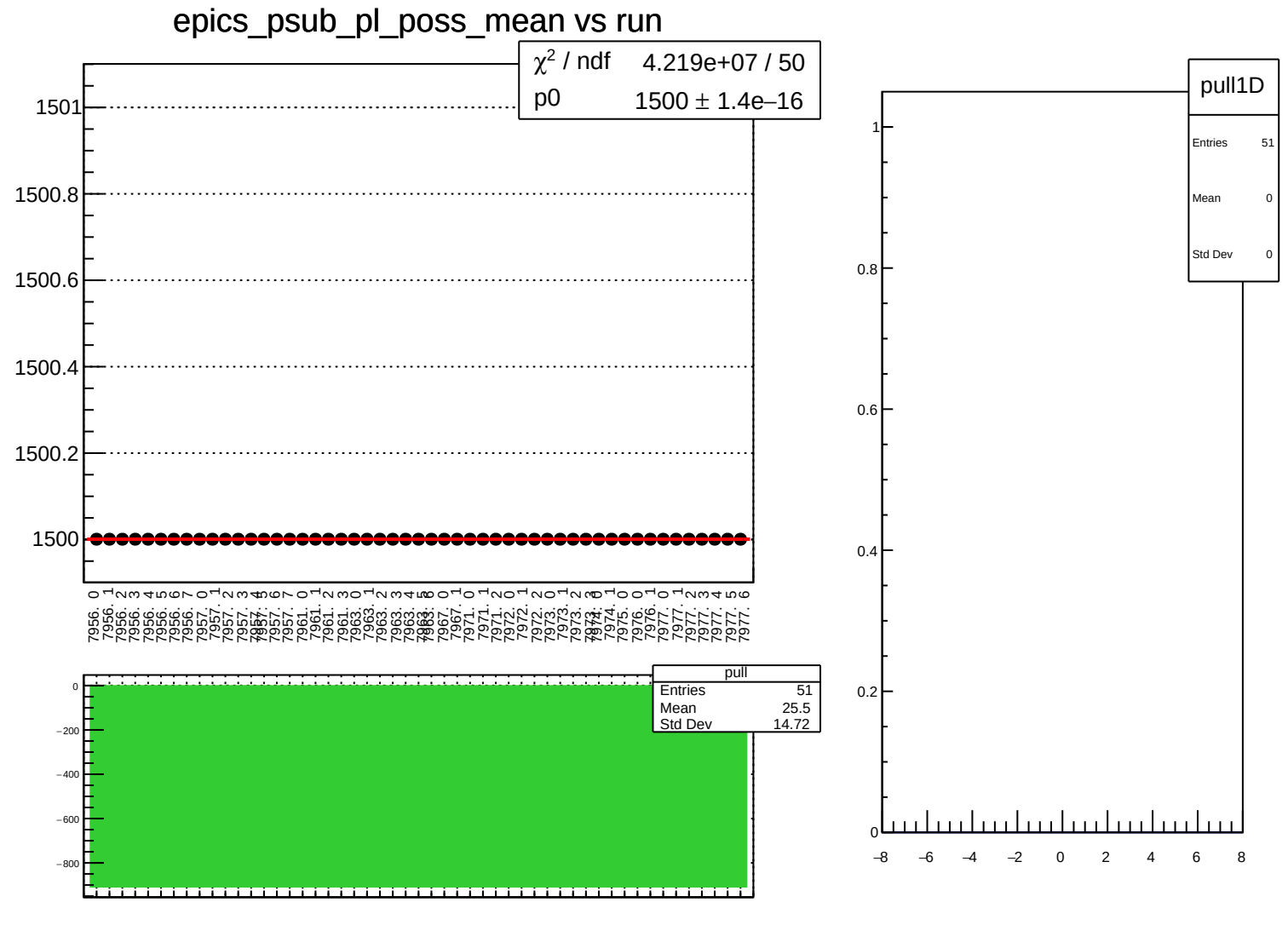

pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

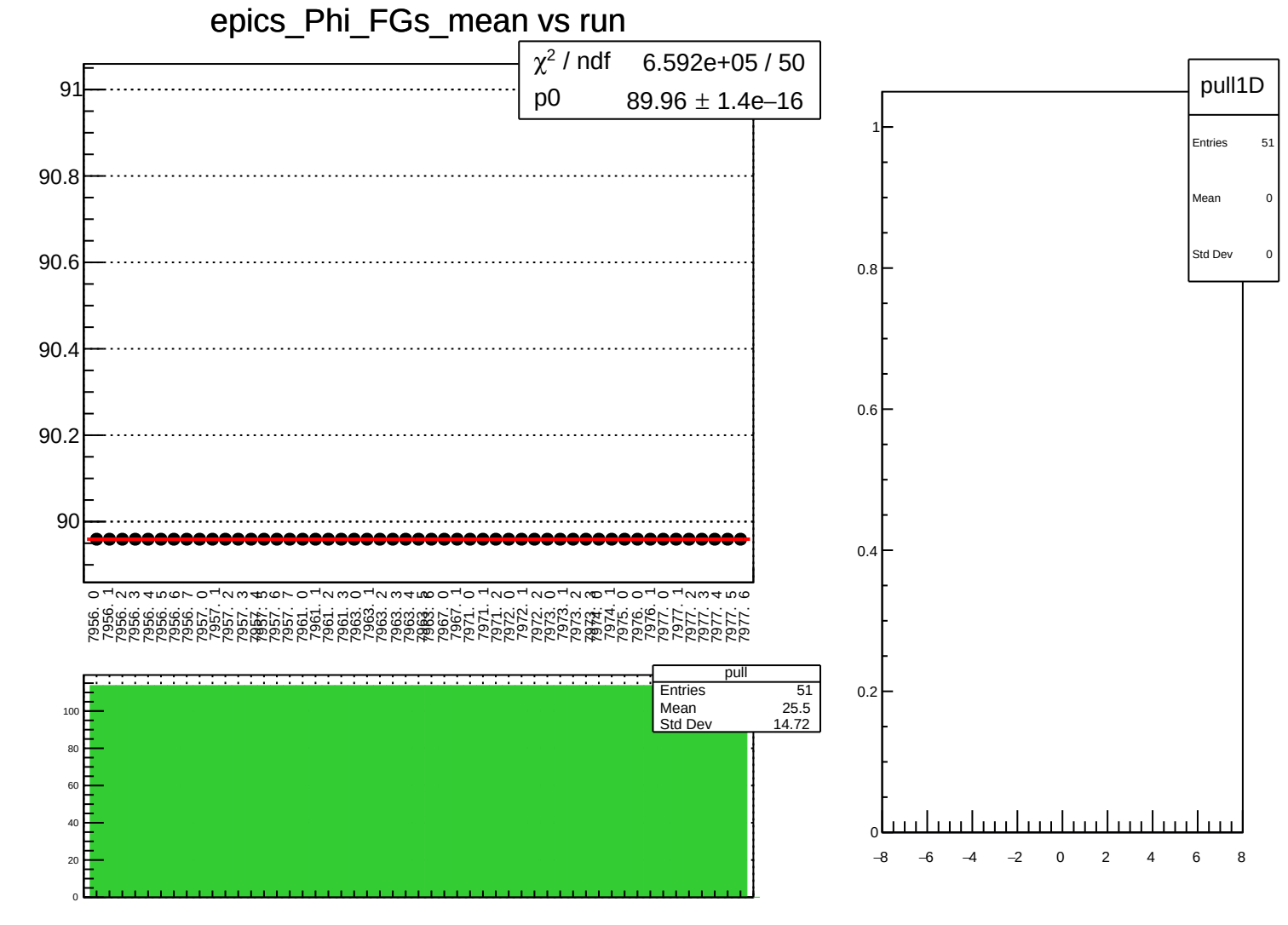

yield_bpm0r05Y_rms vs run
χ² / ndf 2.026e+04 / 50
p0 0.009898 ± 9.854e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
7956. 0
7956. 1
7956. 2
7956. 3
7956. 4
7956. 5
7956. 6
7956. 7
7957. 0
7957. 1
7957. 2
7957. 3
7957. 4
7957. 5
7957. 6
7957. 7
7961. 0
7961. 1
7961. 2
7961. 3
7963. 0
7963. 1
7963. 2
7963. 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

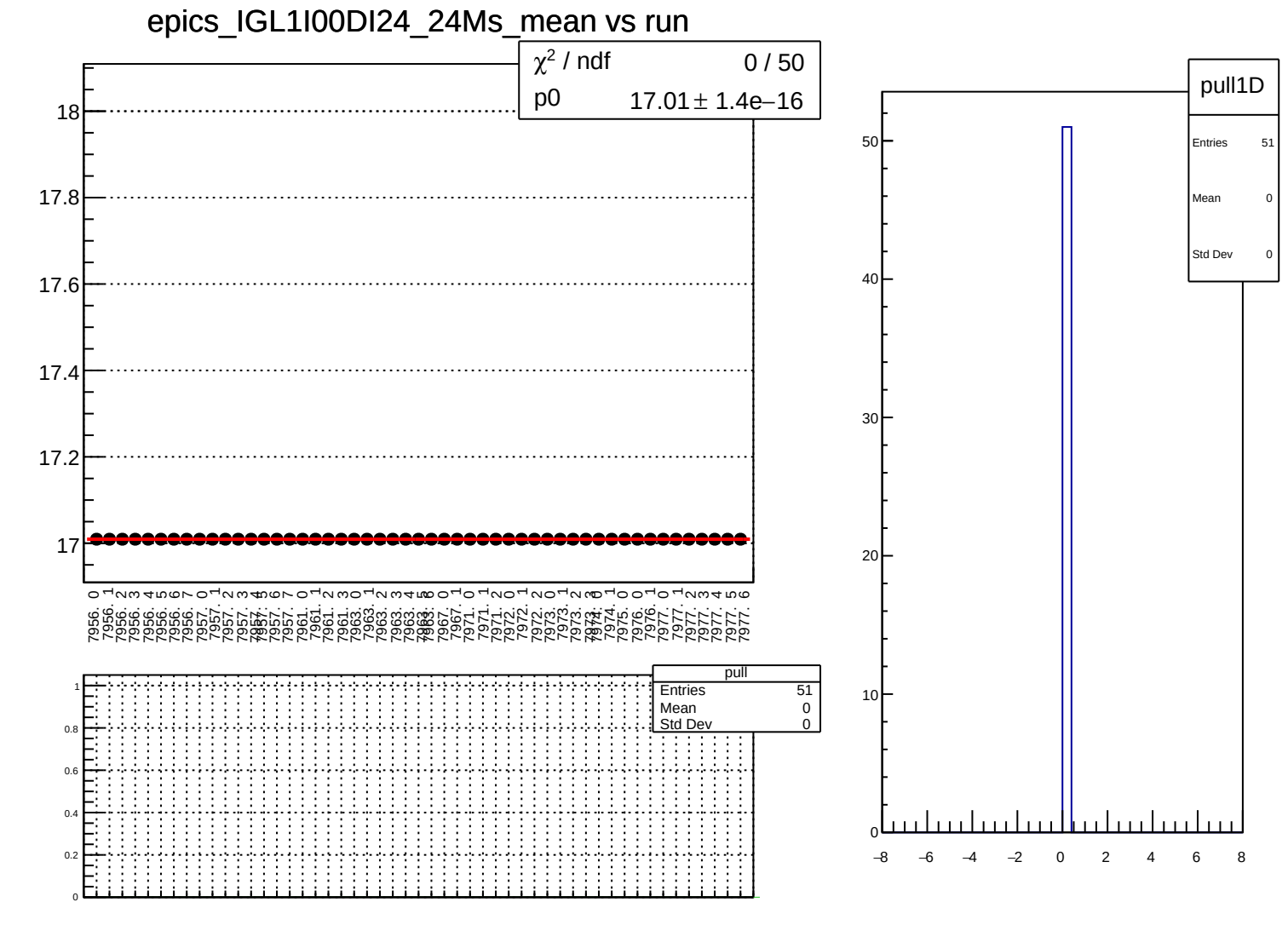

epics_VWienAngles_mean vs run
χ² / ndf 0 / 50
p0 88 ± 1.4e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

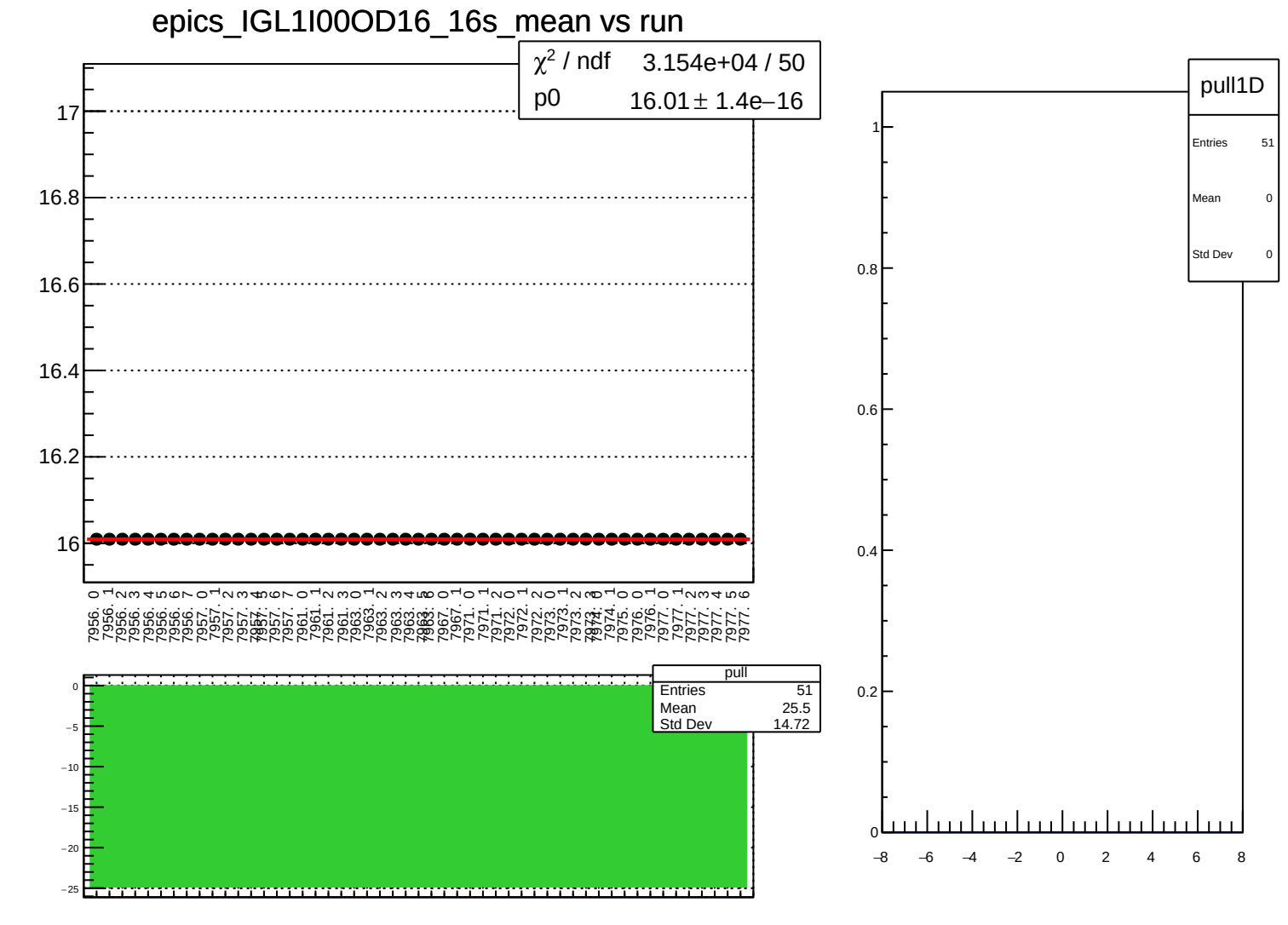

pull1D
Entries 51
Mean 0
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

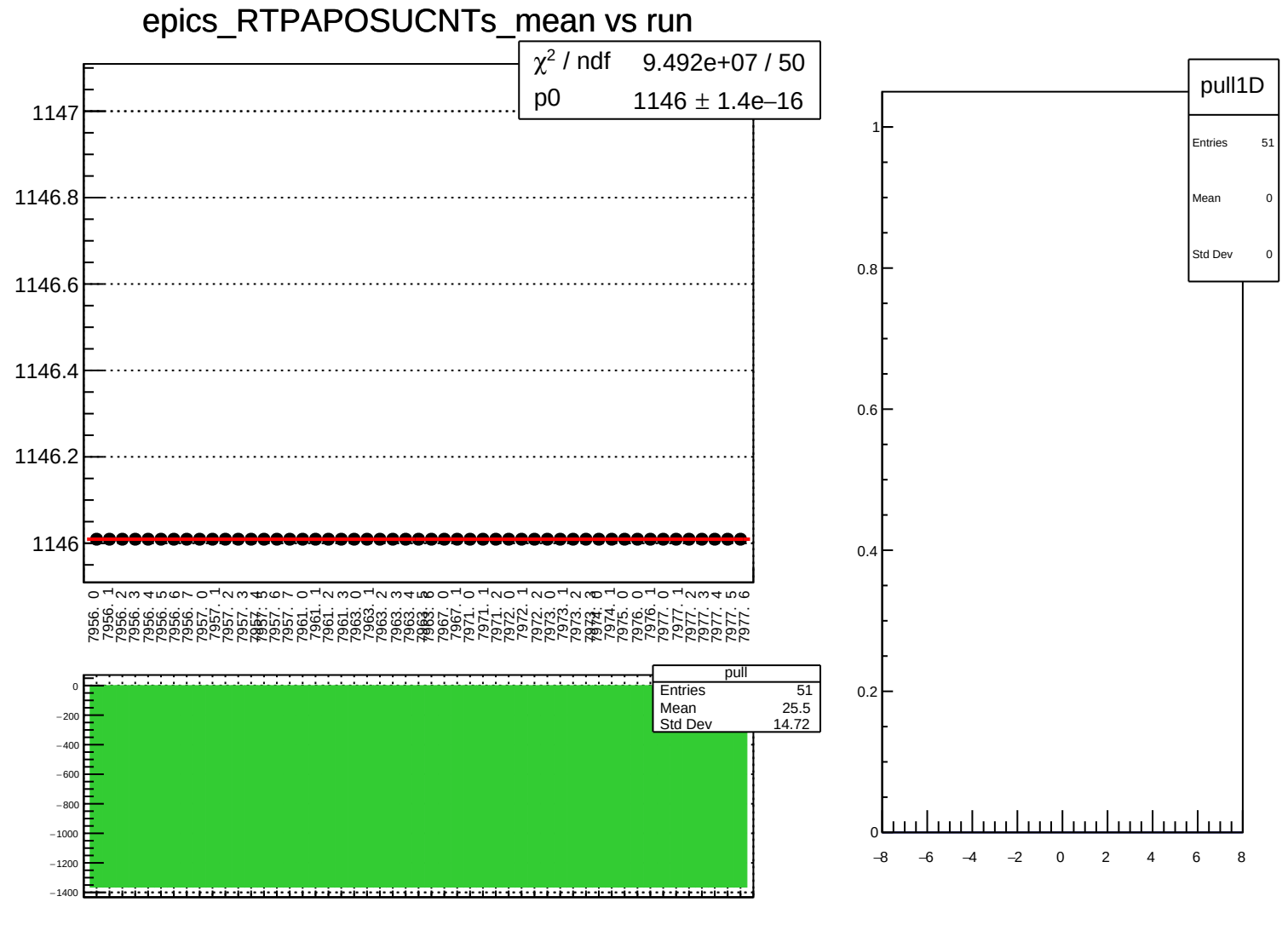

epics_HWienAngles_mean vs run
χ² / ndf 3.154e+04 / 50
p0 −29.64 ± 1.4e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 51
Mean 25.5
Std Dev 14.72
pull1D
Entries 51
Mean 0
Std Dev 0

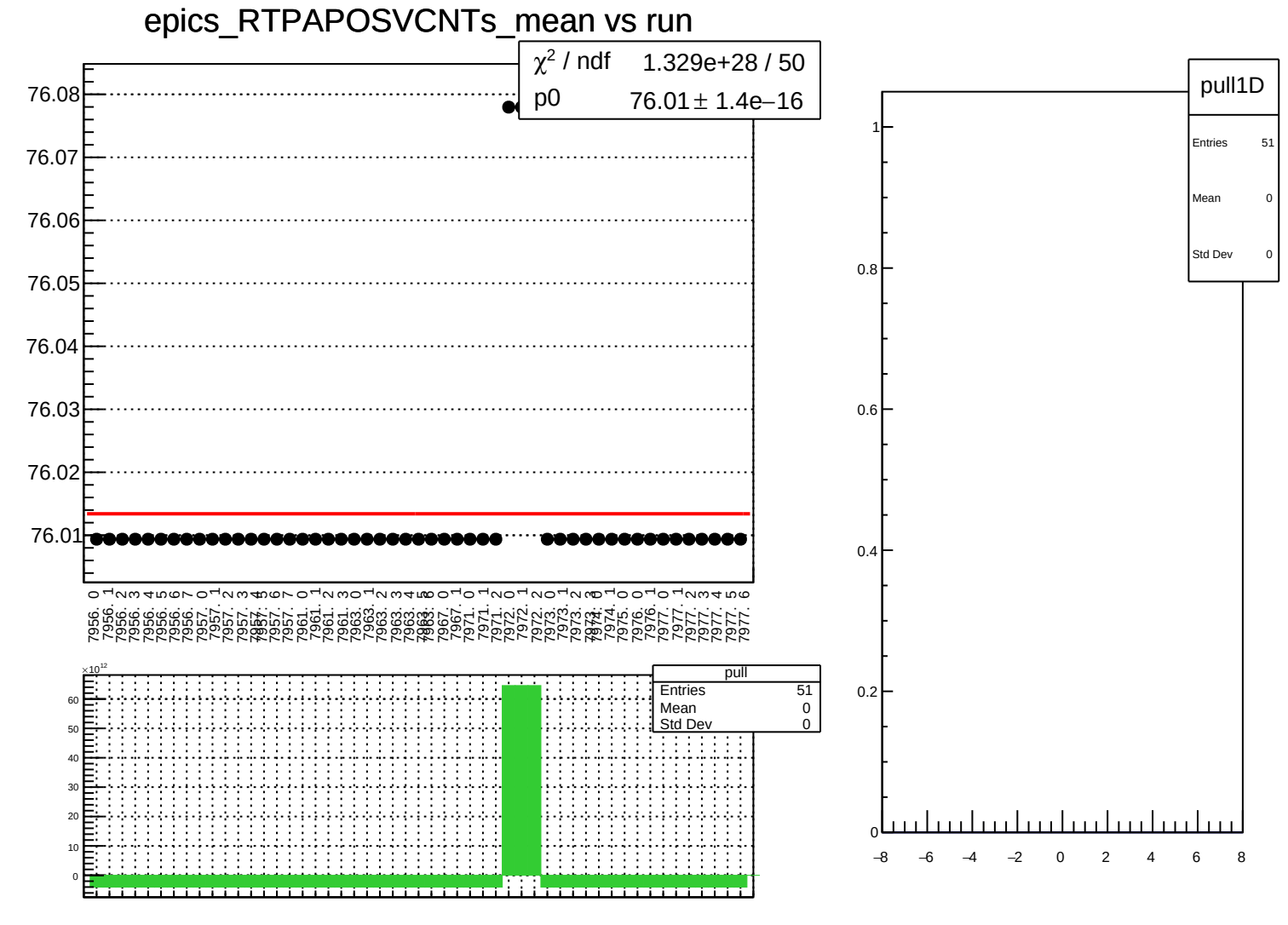

epics_psub_pl_poss_mean vs run
χ² / ndf 4.219e+07 / 50
p0 1500 ± 1.4e–16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 51
Mean 25.5
Std Dev 14.72
0
–200
–400
–600
–800
pull1D
Entries 51
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8


epics_Phi_FGs_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


epics_IGL1I00DI24_24Ms_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


epics_IGL1I00OD16_16s_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


epics_RTPAPOSUCNTs_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


epics_RTPAPOSVCNTs_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
pull1D
Entries 51
Mean 0
Std Dev 0