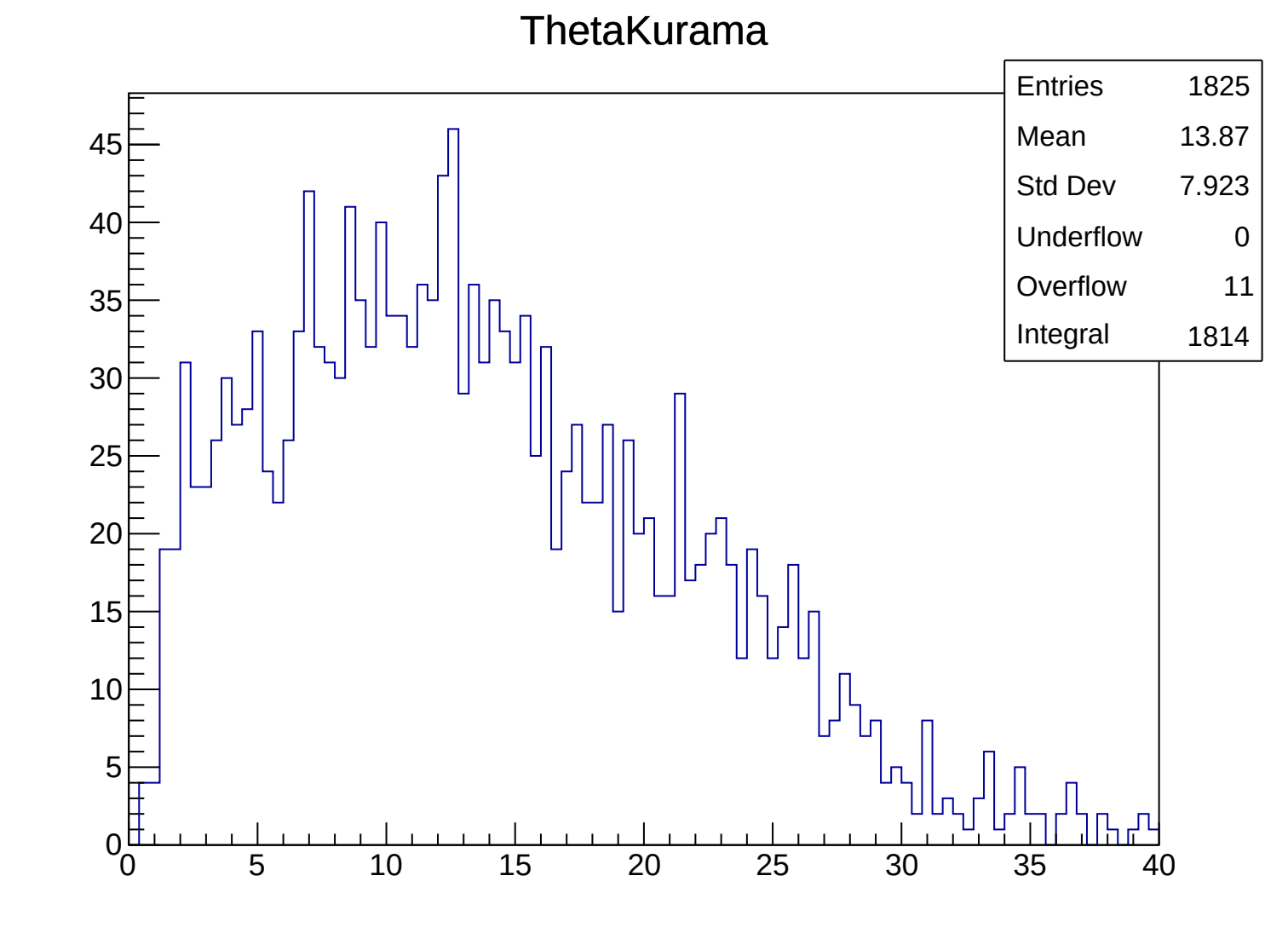
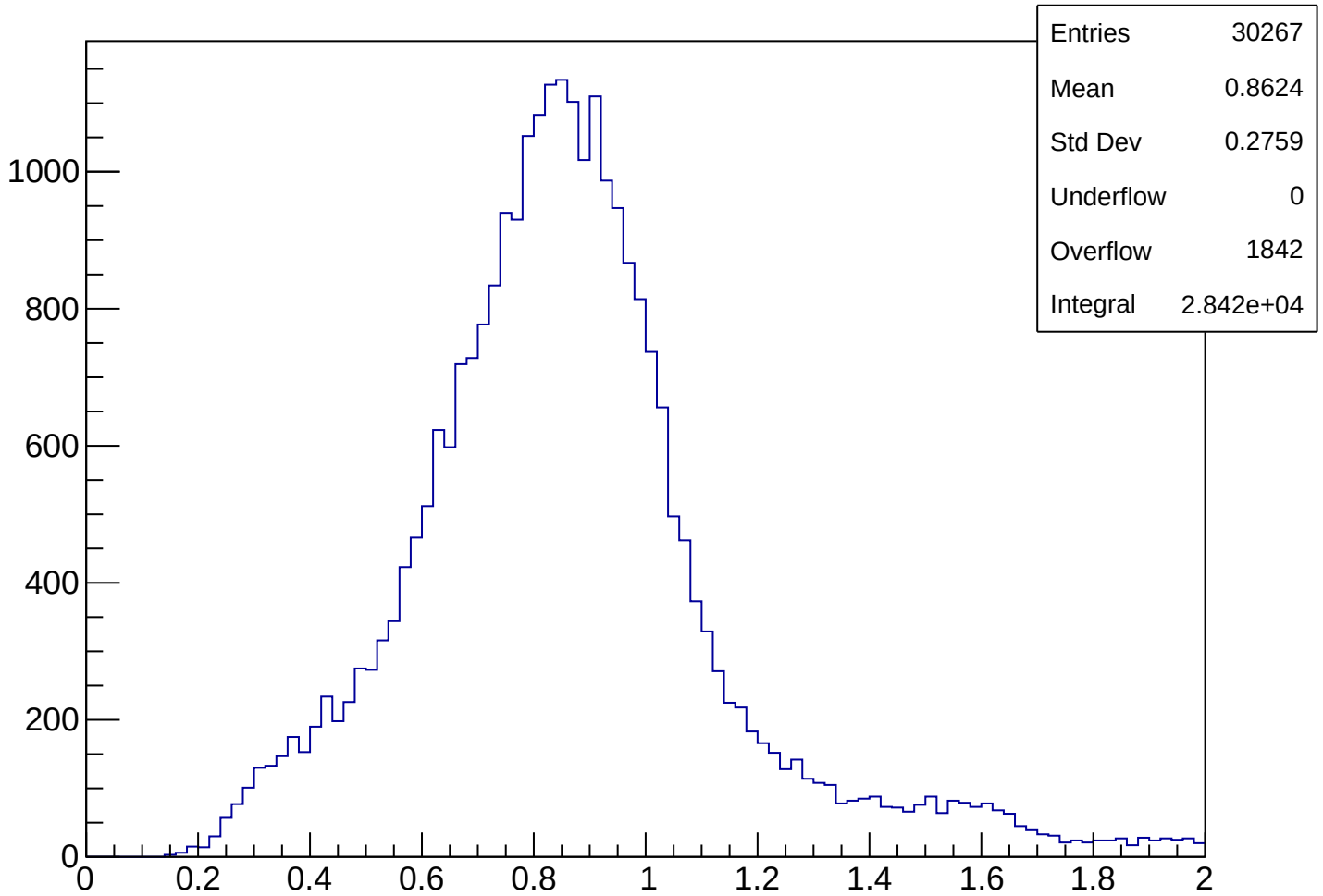
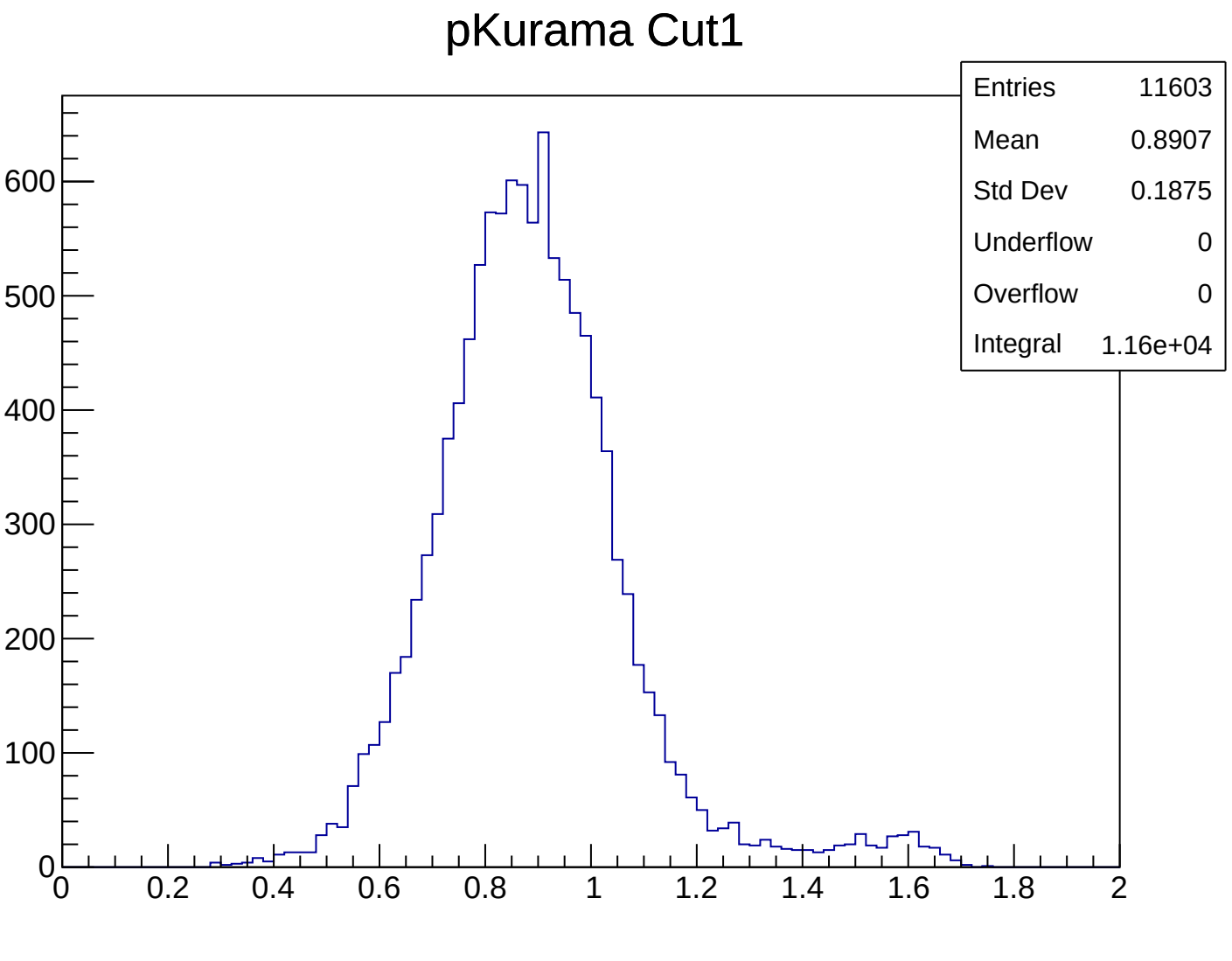
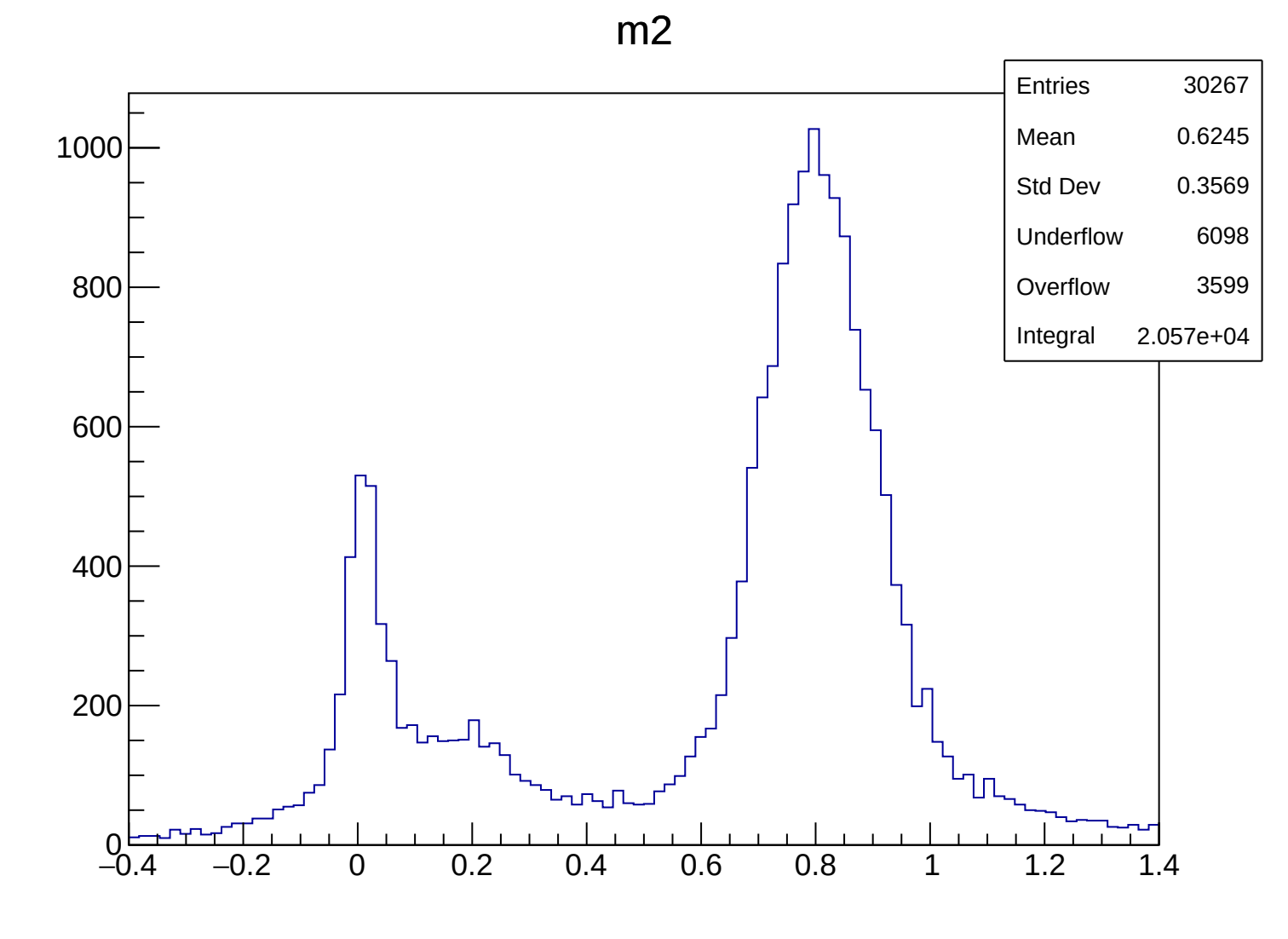
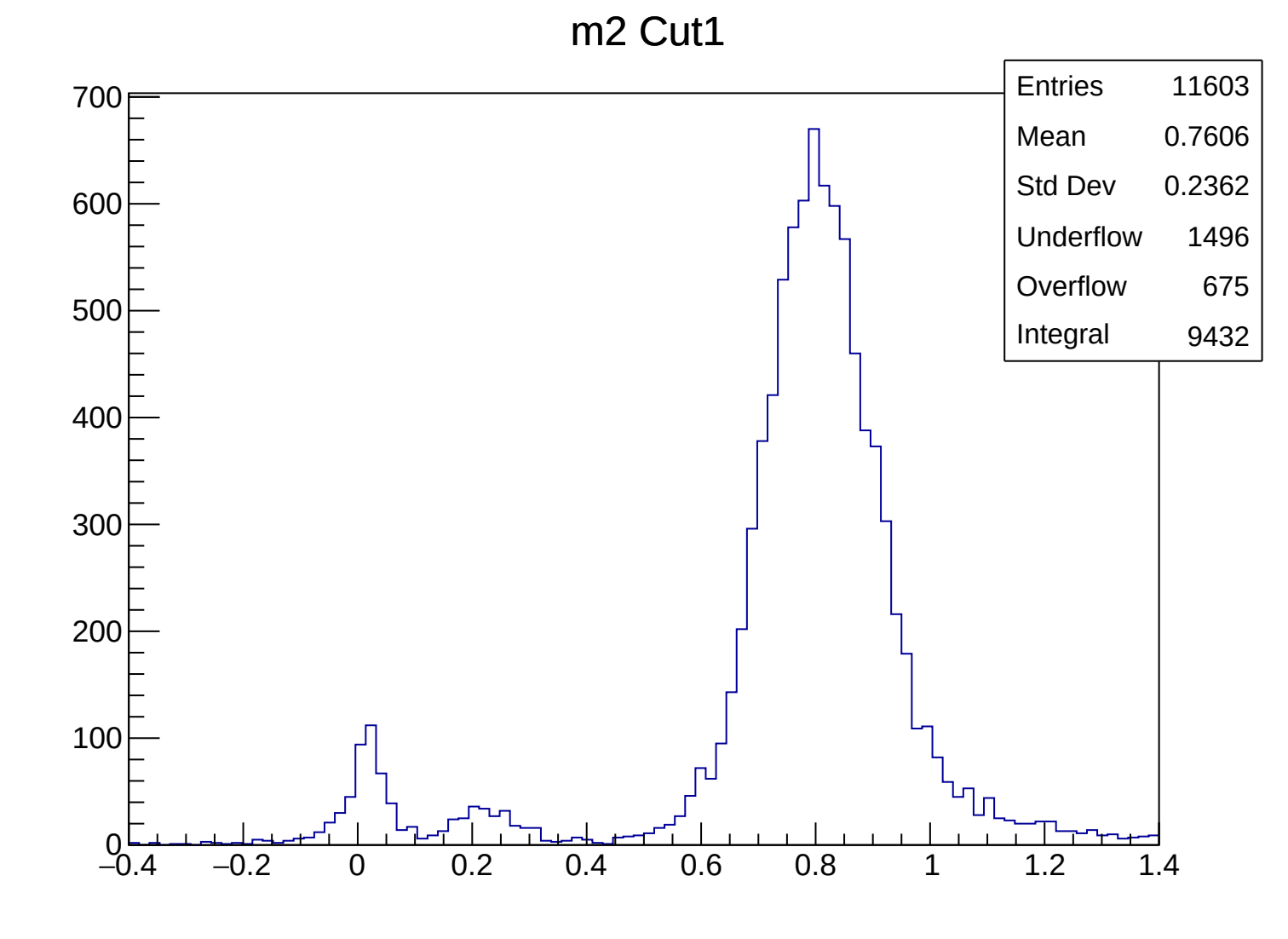
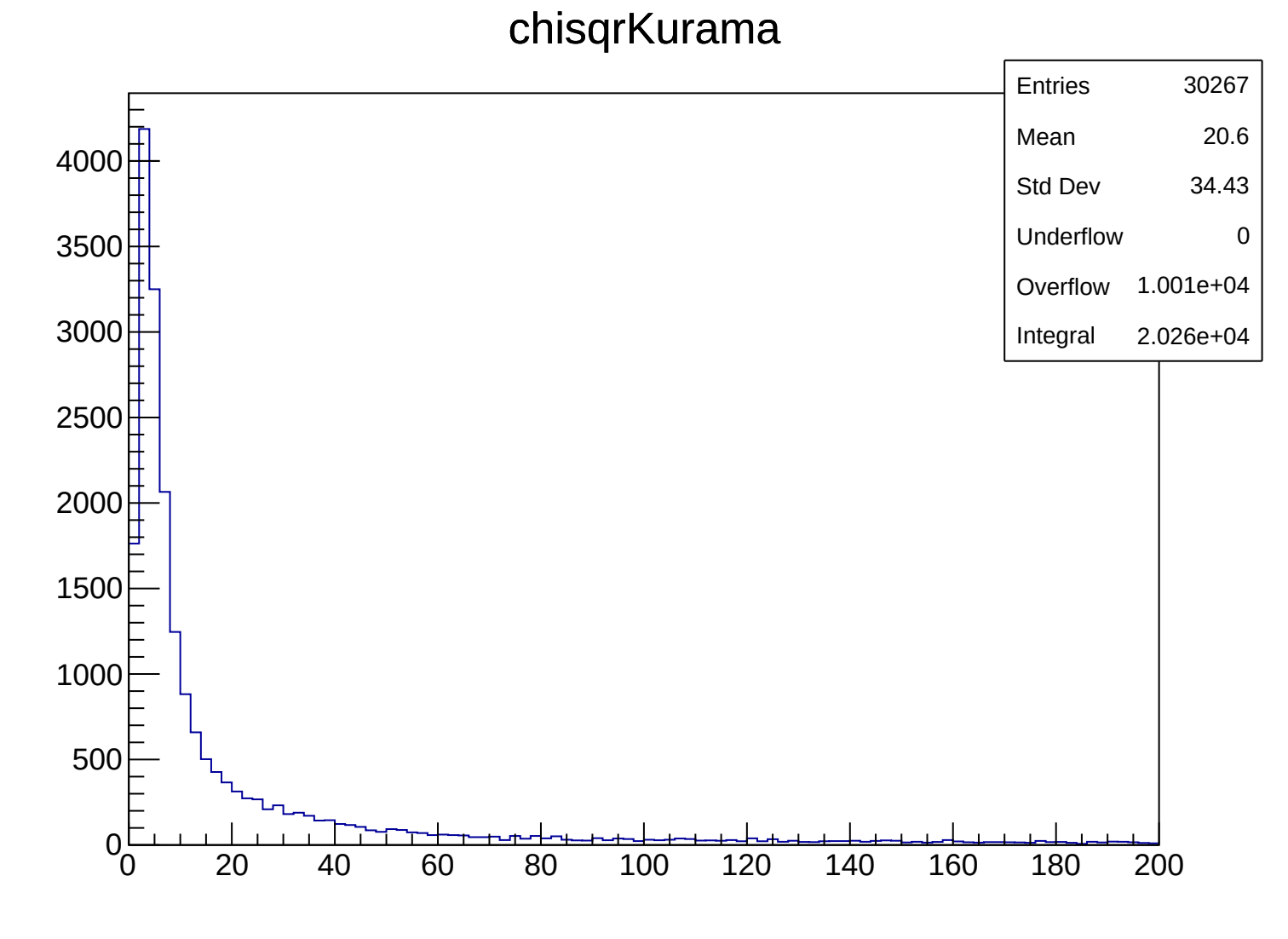

ThetaKurama
Entries 1825
Mean 13.87
Std Dev 7.923
Underflow 0
Overflow 11
Integral 1814
0
5
10
15
20
25
30
35
40
45
0
5
10
15
20
25
30
35
40

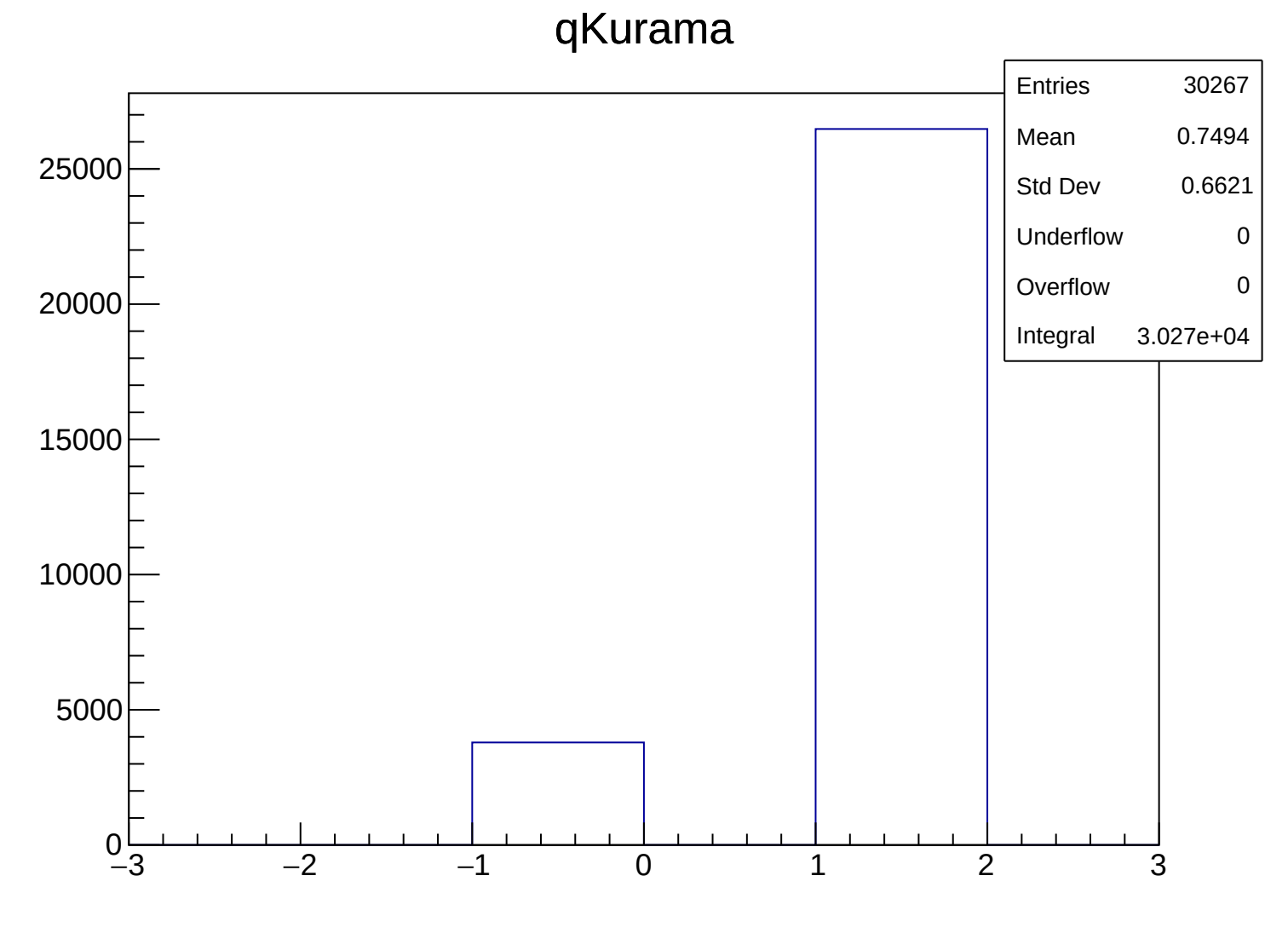

pKurama
Entries 30267
Mean 0.8624
Std Dev 0.2759
Underflow 0
Overflow 1842
Integral 2.842e+04
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

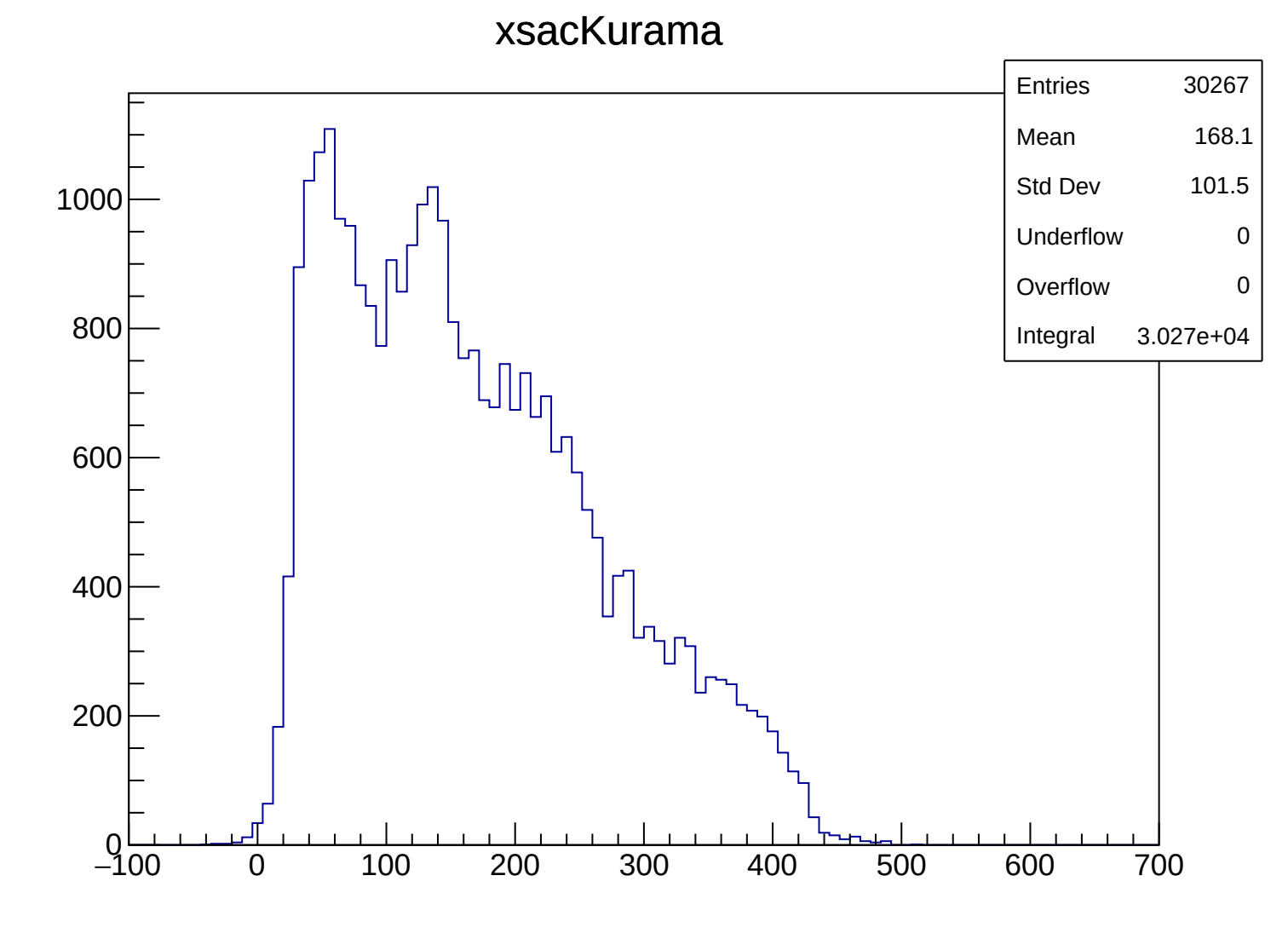

pKurama Cut1
Entries 11603
Mean 0.8907
Std Dev 0.1875
Underflow 0
Overflow 0
Integral 1.16e+04
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

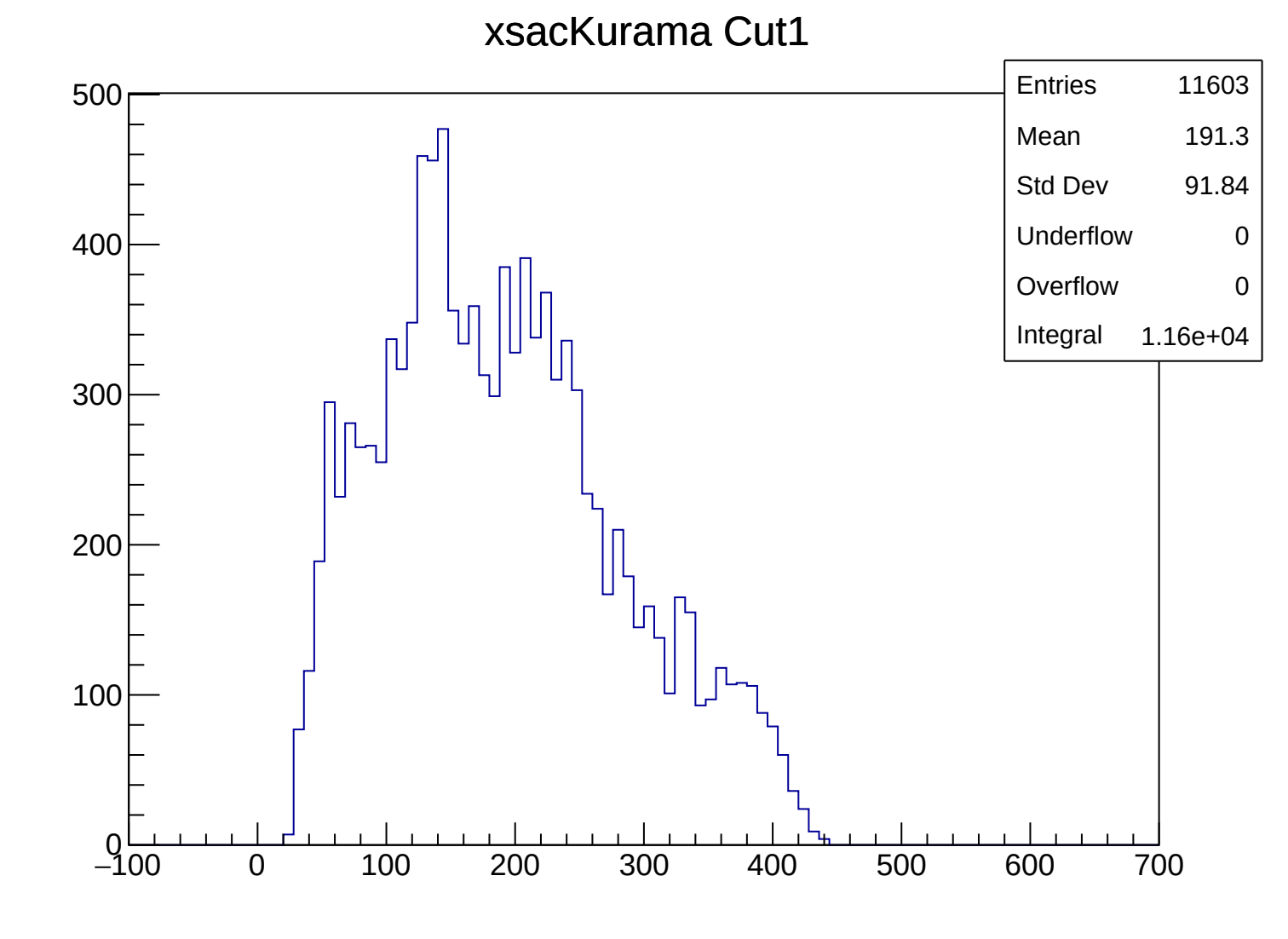

m2
Entries 30267
Mean 0.6245
Std Dev 0.3569
Underflow 6098
Overflow 3599
Integral 2.057e+04
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

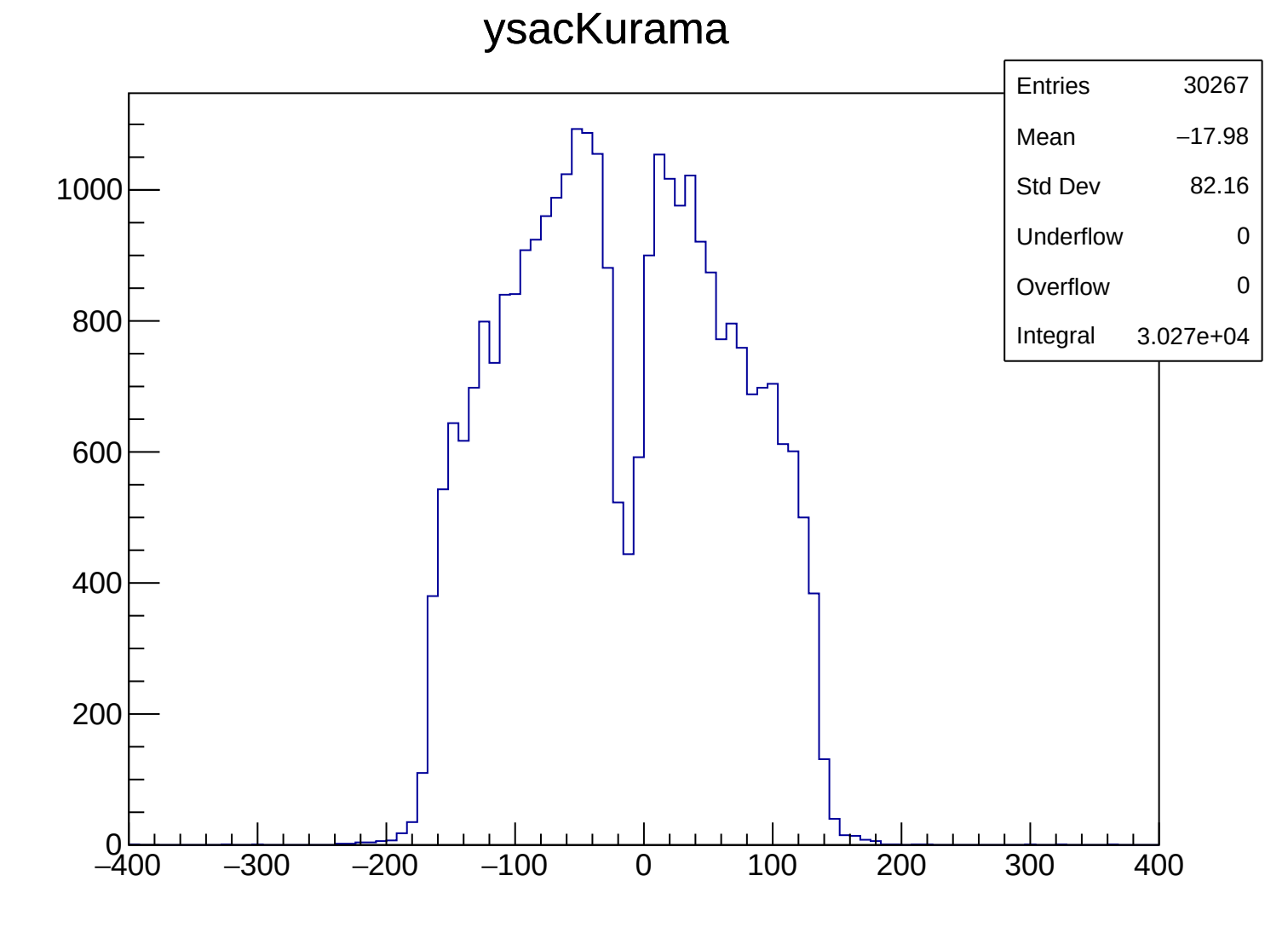

m2 Cut1
Entries 11603
Mean 0.7606
Std Dev 0.2362
Underflow 1496
Overflow 675
Integral 9432
700
600
500
400
300
200
100
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

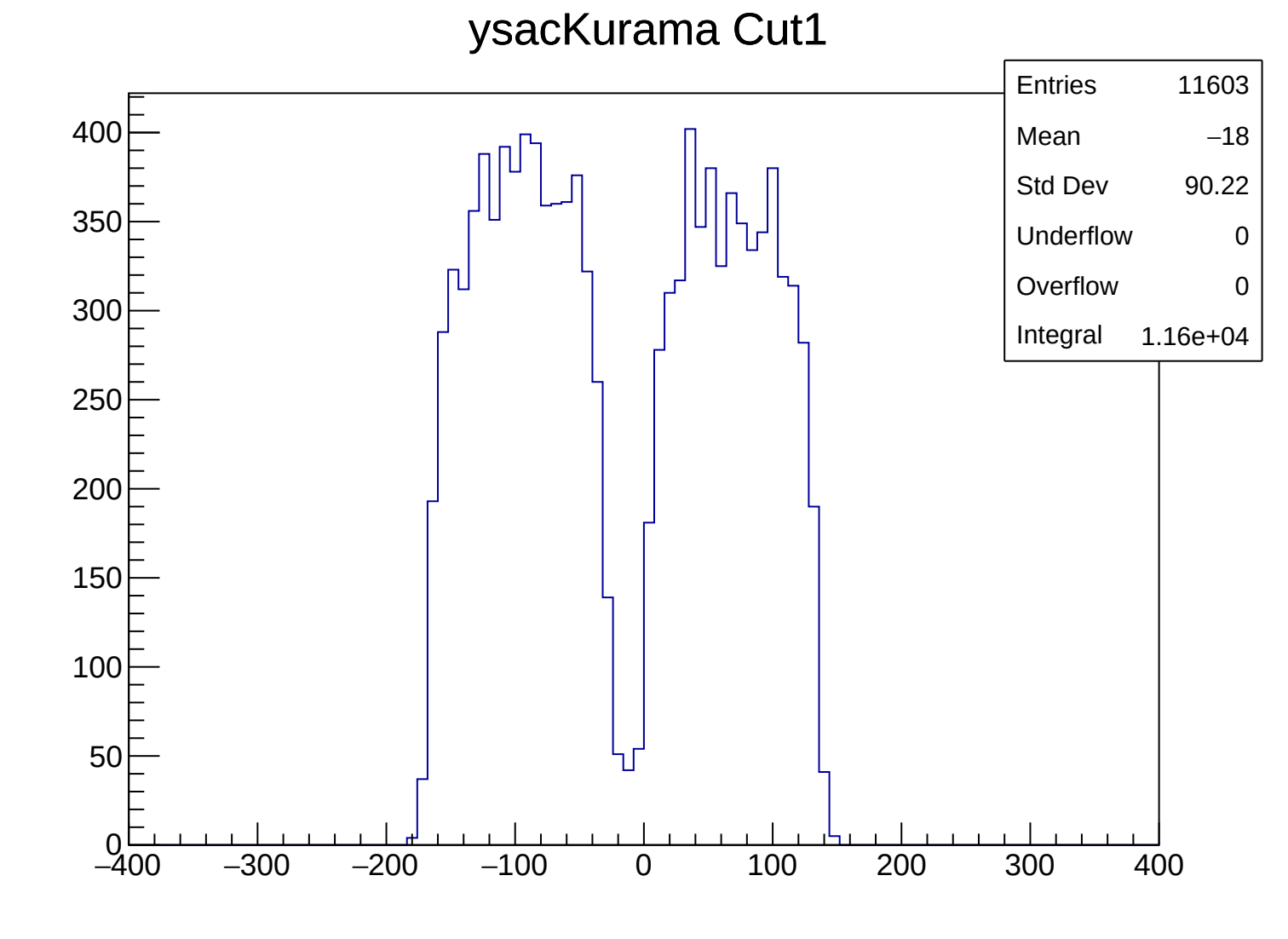

chisqrKurama
Entries 30267
Mean 20.6
Std Dev 34.43
Underflow 0
Overflow 1.001e+04
Integral 2.026e+04
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

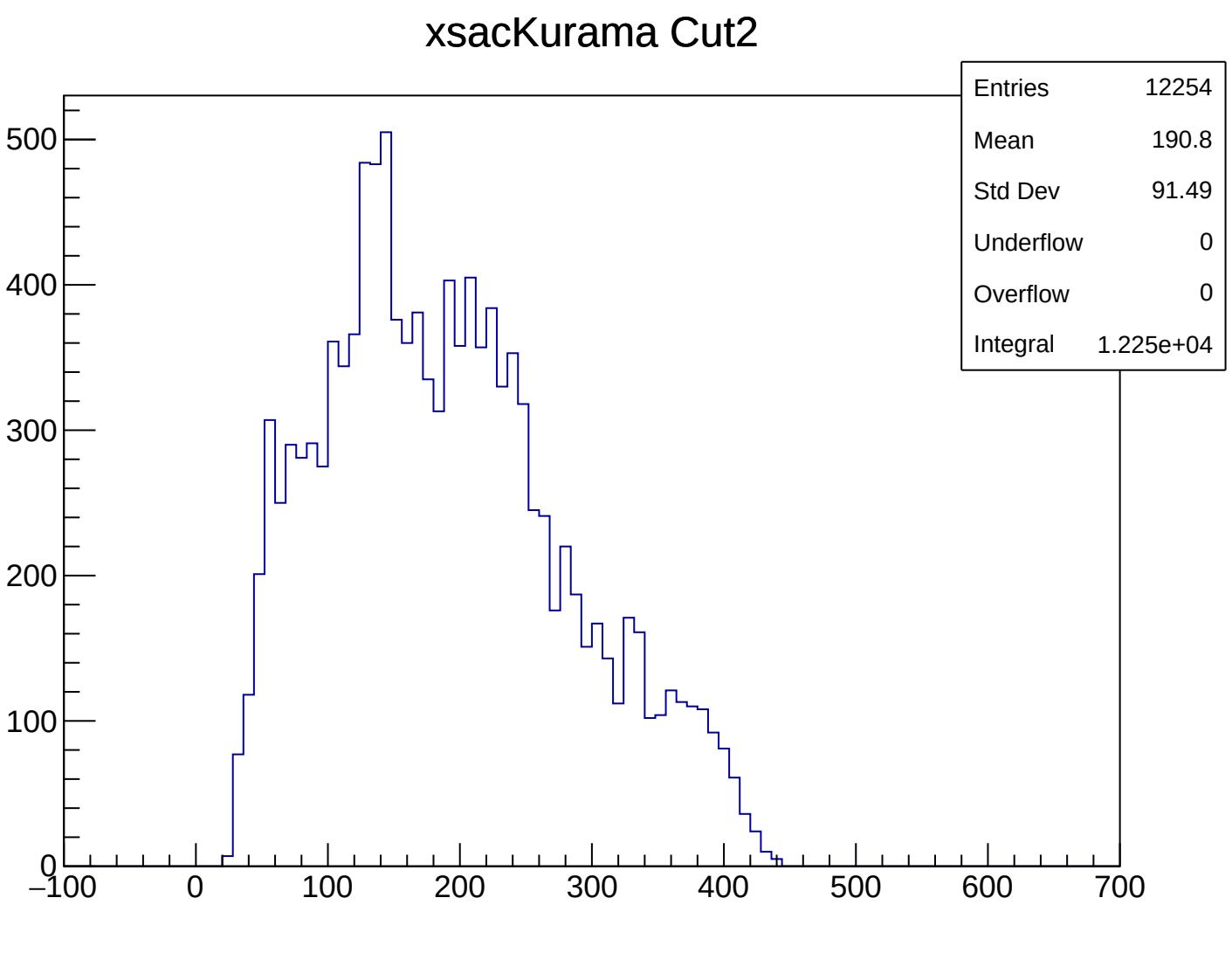

qKurama
Entries 30267
Mean 0.7494
Std Dev 0.6621
Underflow 0
Overflow 0
Integral 3.027e+04
25000
20000
15000
10000
5000
0
−3
−2
−1
0
1
2
3

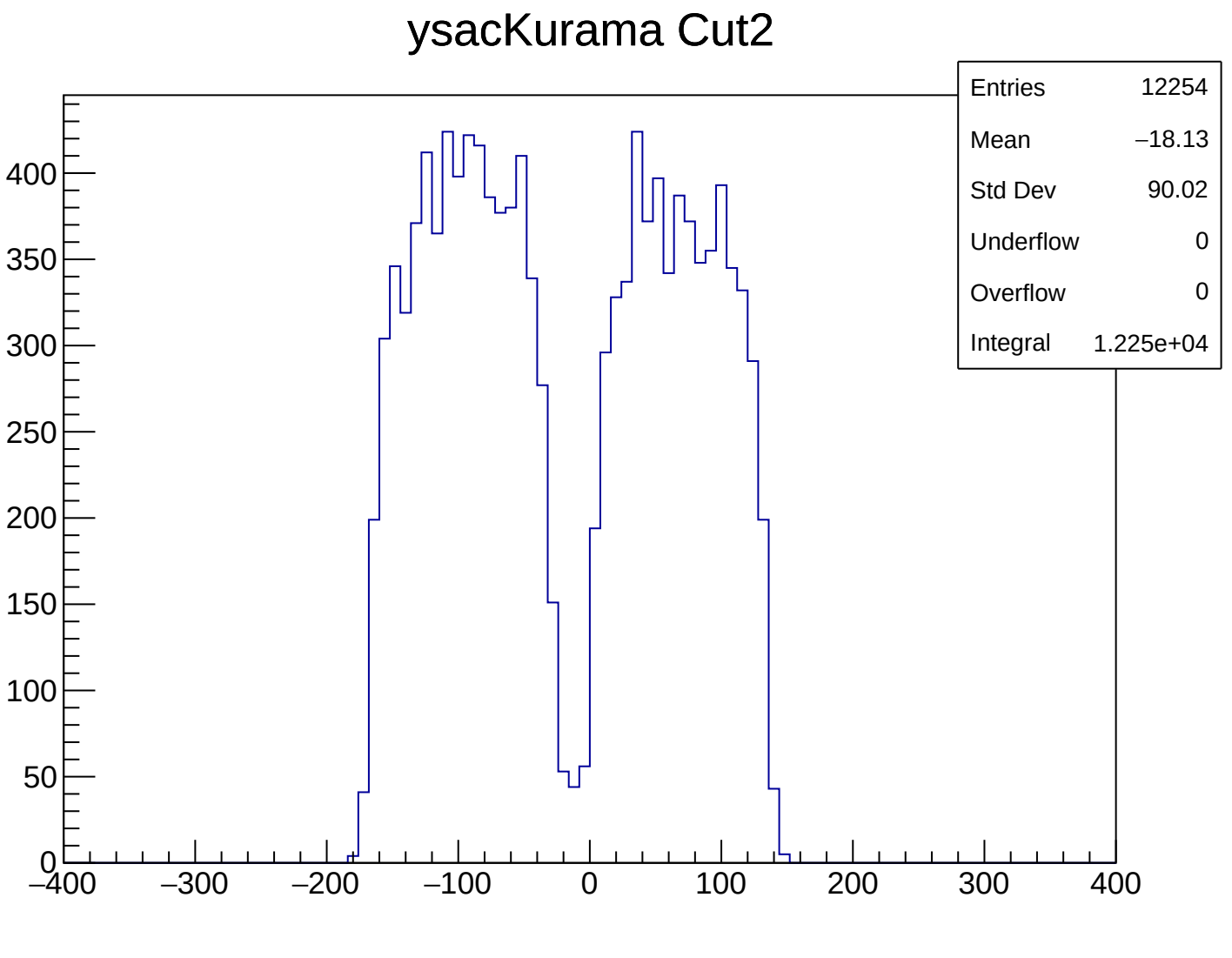

xsacKurama
Entries 30267
Mean 168.1
Std Dev 101.5
Underflow 0
Overflow 0
Integral 3.027e+04
1000
800
600
400
200
0
–100
0
100
200
300
400
500
600
700

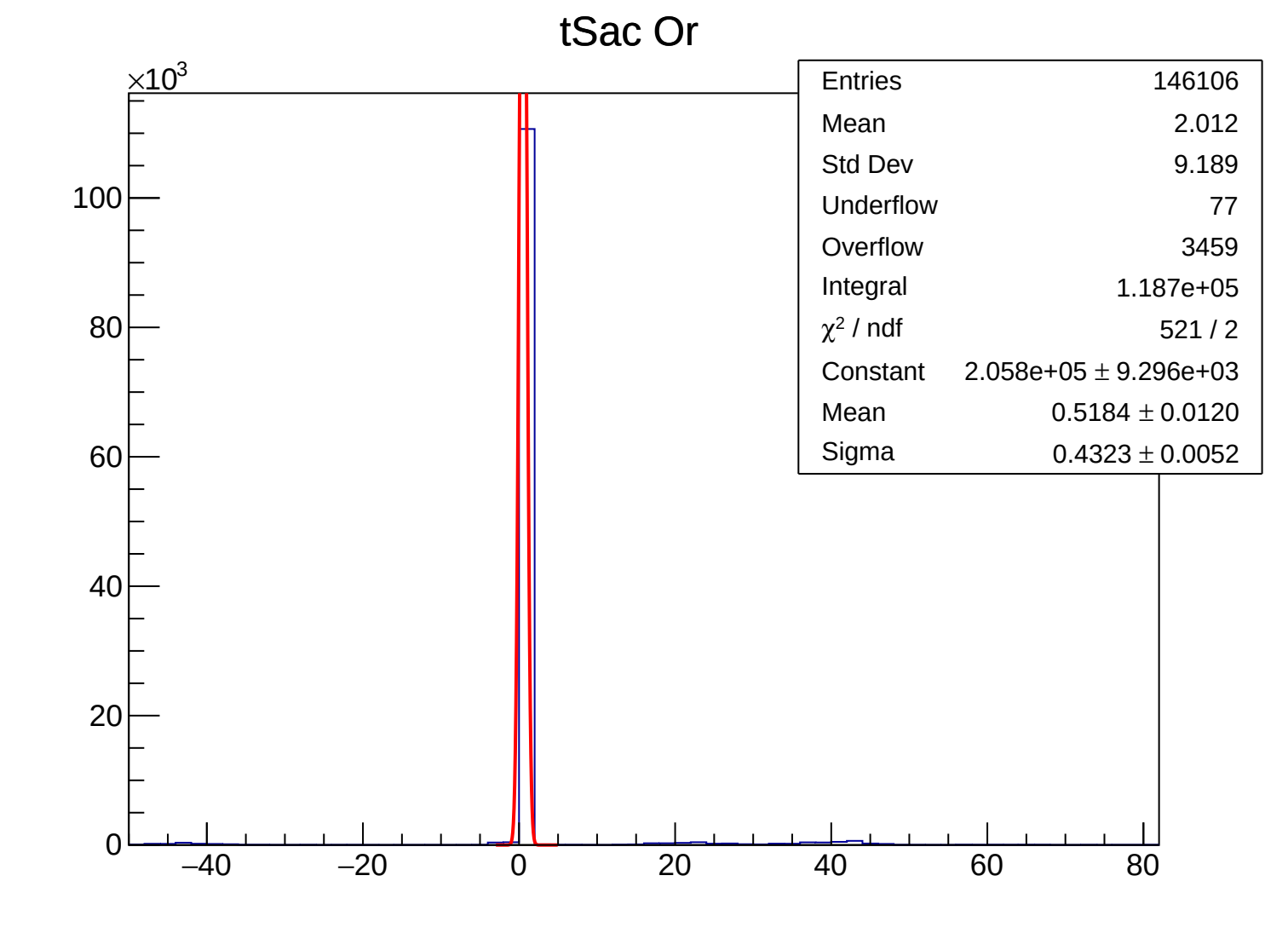

xsacKurama Cut1
Entries 11603
Mean 191.3
Std Dev 91.84
Underflow 0
Overflow 0
Integral 1.16e+04
500
400
300
200
100
0
–100
0
100
200
300
400
500
600
700

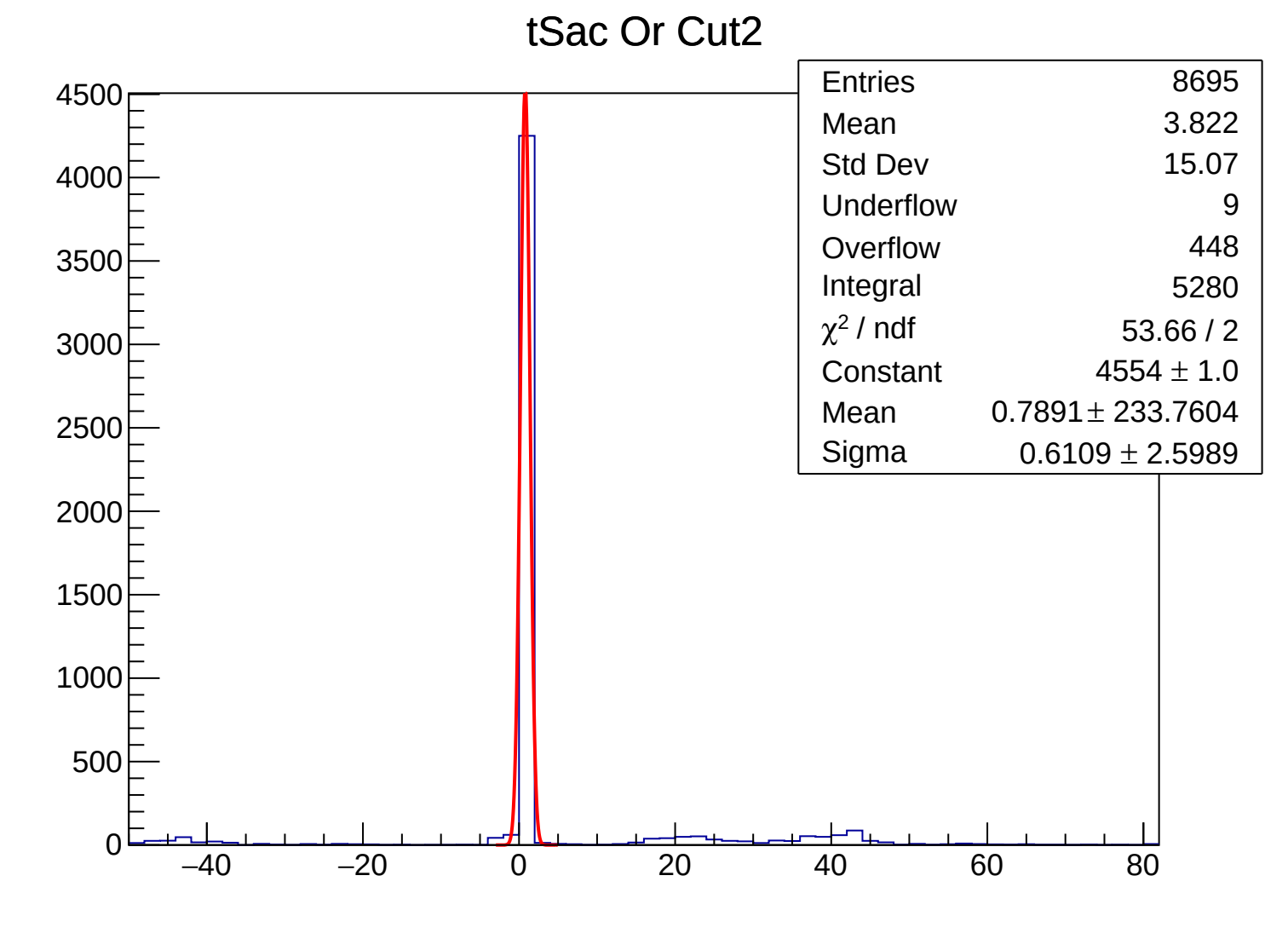

ysacKurama
Entries 30267
Mean −17.98
Std Dev 82.16
Underflow 0
Overflow 0
Integral 3.027e+04
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

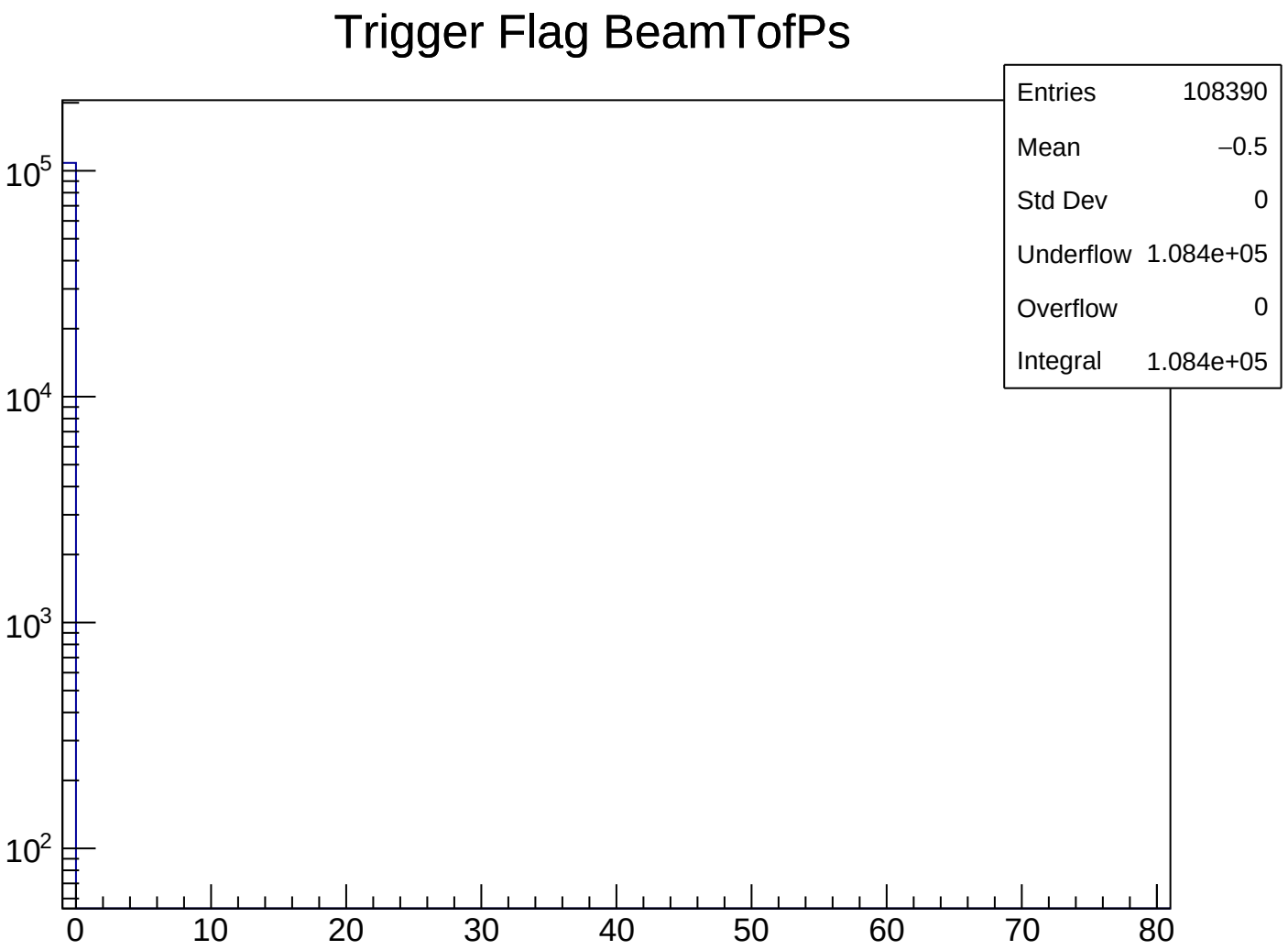

ysacKurama Cut1
Entries 11603
Mean −18
Std Dev 90.22
Underflow 0
Overflow 0
Integral 1.16e+04
400
350
300
250
200
150
100
50
0
−400
−300
−200
−100
0
100
200
300
400

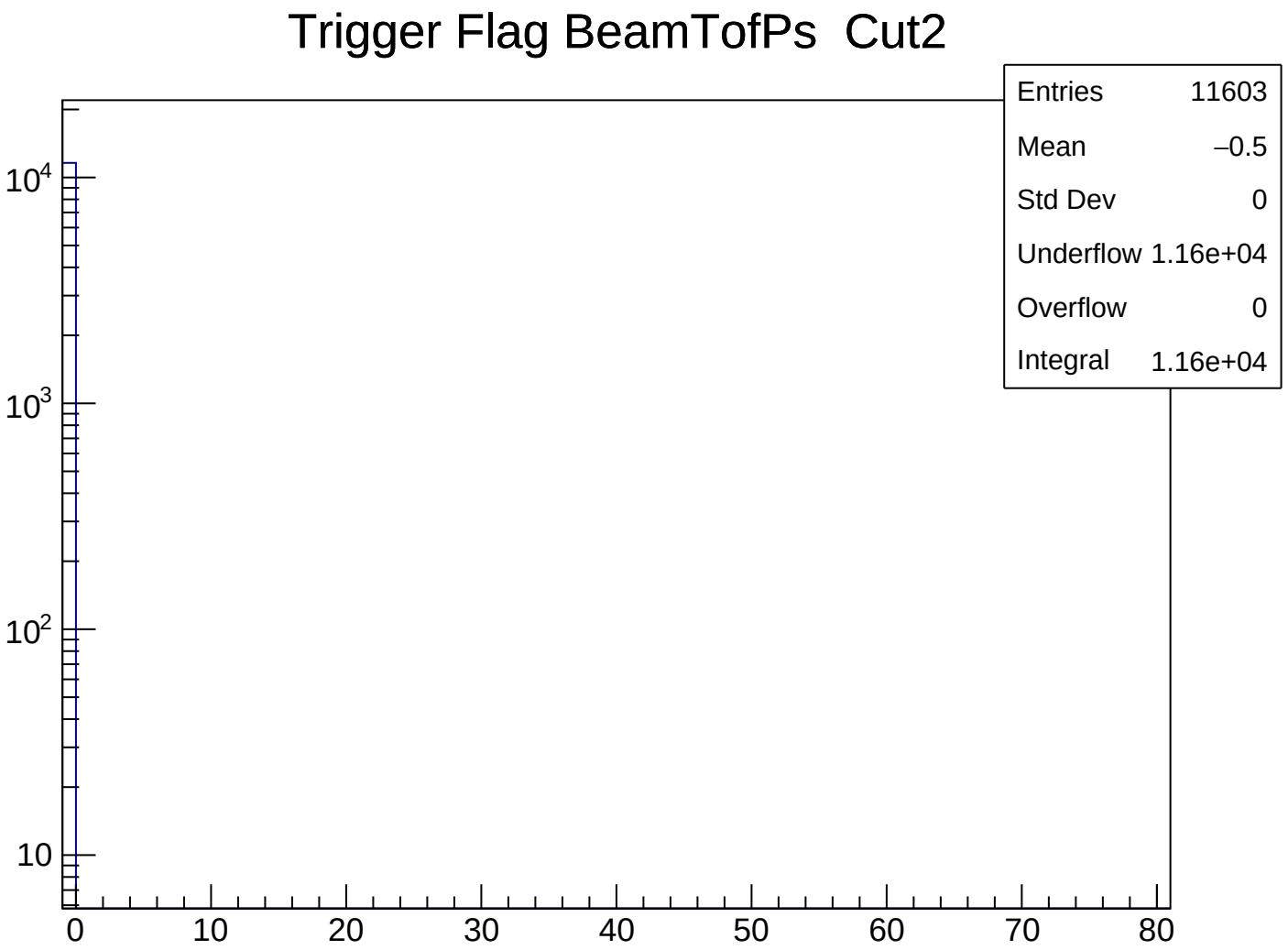

xsacKurama Cut2
Entries 12254
Mean 190.8
Std Dev 91.49
Underflow 0
Overflow 0
Integral 1.225e+04
500
400
300
200
100
0
–100
0
100
200
300
400
500
600
700

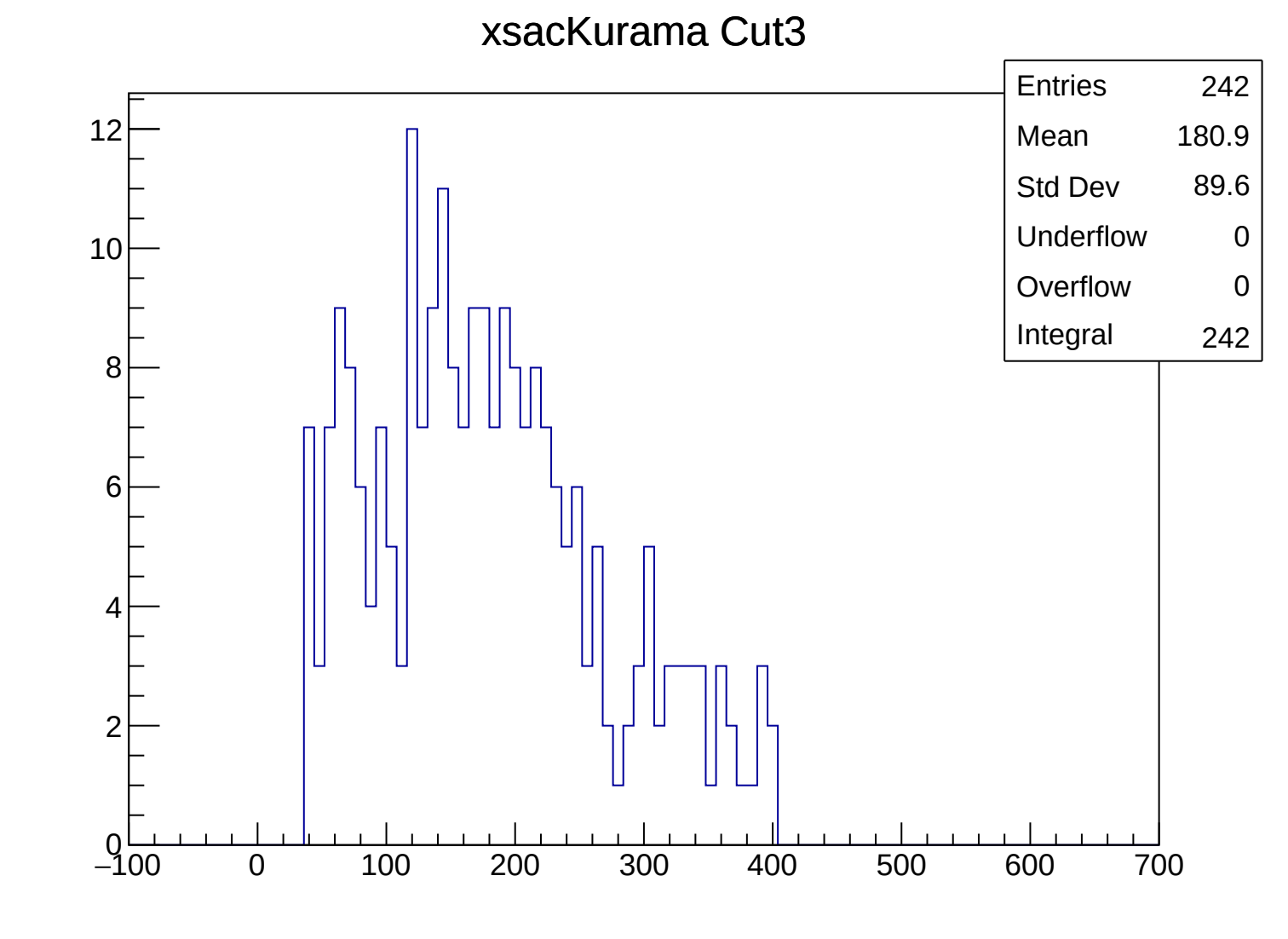

ysacKurama Cut2
Entries 12254
Mean −18.13
Std Dev 90.02
Underflow 0
Overflow 0
Integral 1.225e+04
400
350
300
250
200
150
100
50
0
−400
−300
−200
−100
0
100
200
300
400

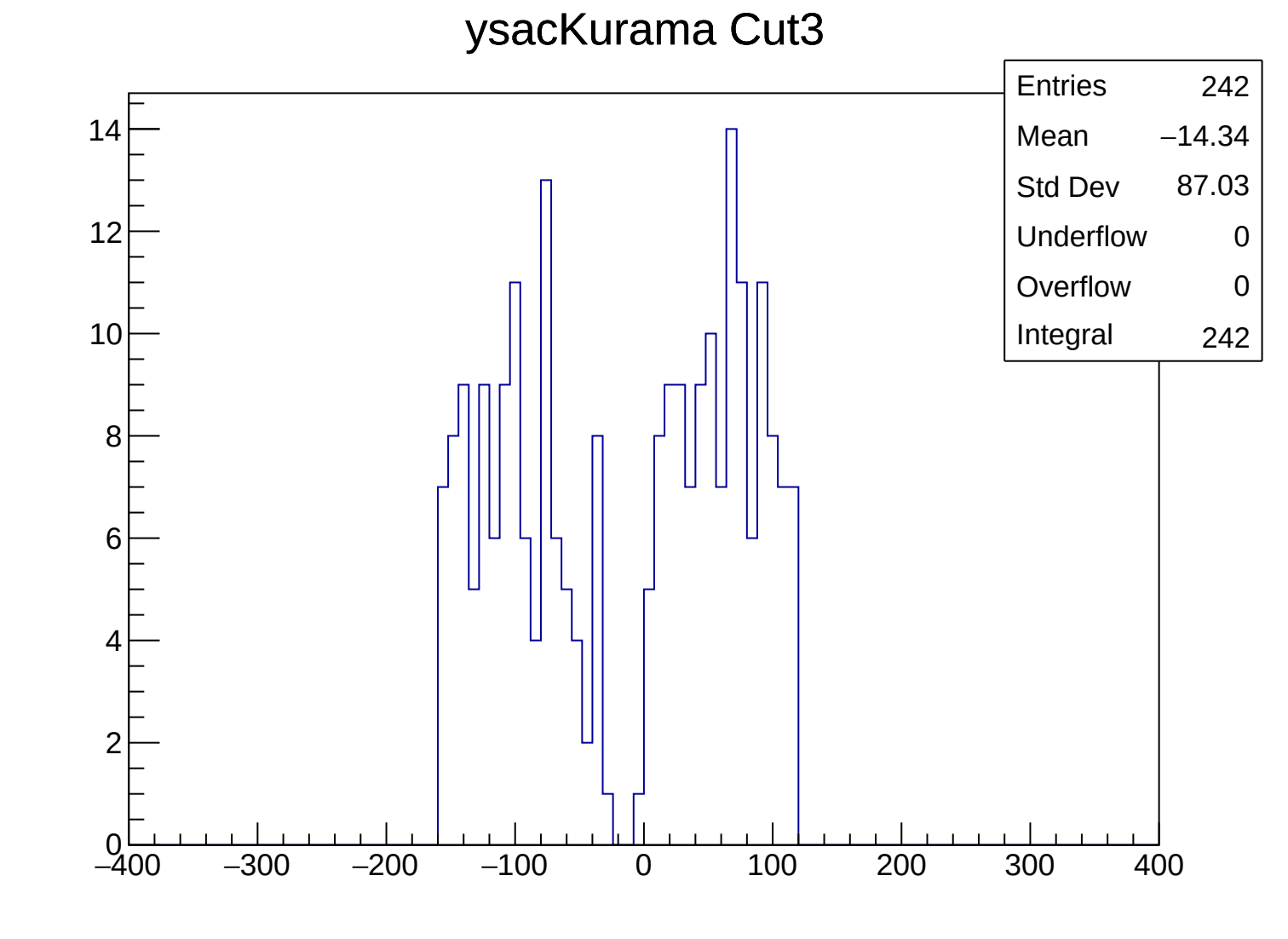

tSac Or
×10^3
100
80
60
40
20
0
–40
–20
0
20
40
60
80
Entries 146106
Mean 2.012
Std Dev 9.189
Underflow 77
Overflow 3459
Integral 1.187e+05
χ² / ndf 521 / 2
Constant 2.058e+05 ± 9.296e+03
Mean 0.5184 ± 0.0120
Sigma 0.4323 ± 0.0052

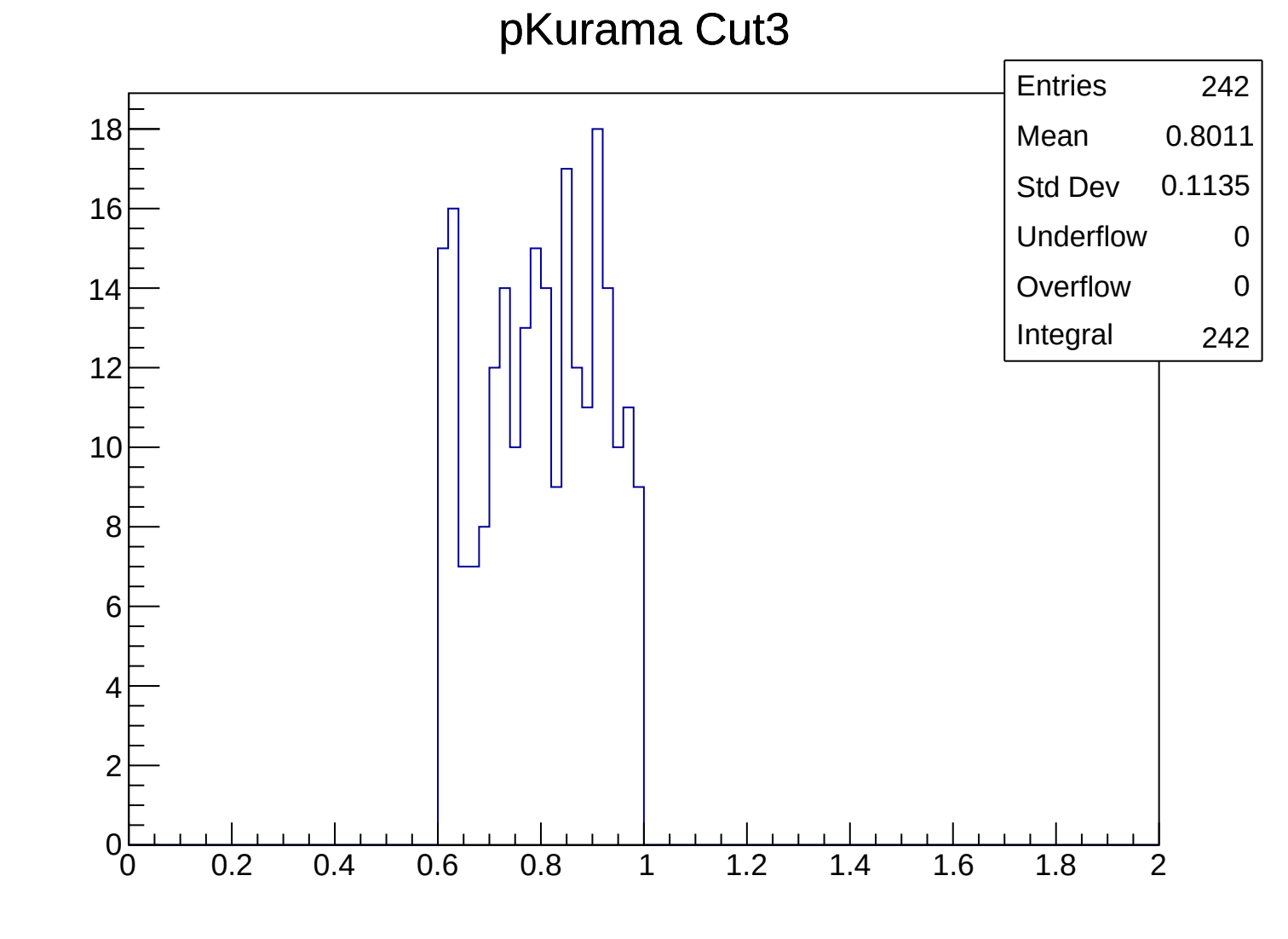

tSac Or Cut2
Entries 8695
Mean 3.822
Std Dev 15.07
Underflow 9
Overflow 448
Integral 5280
χ² / ndf 53.66 / 2
Constant 4554 ± 1.0
Mean 0.7891 ± 233.7604
Sigma 0.6109 ± 2.5989
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–40
–20
0
20
40
60
80

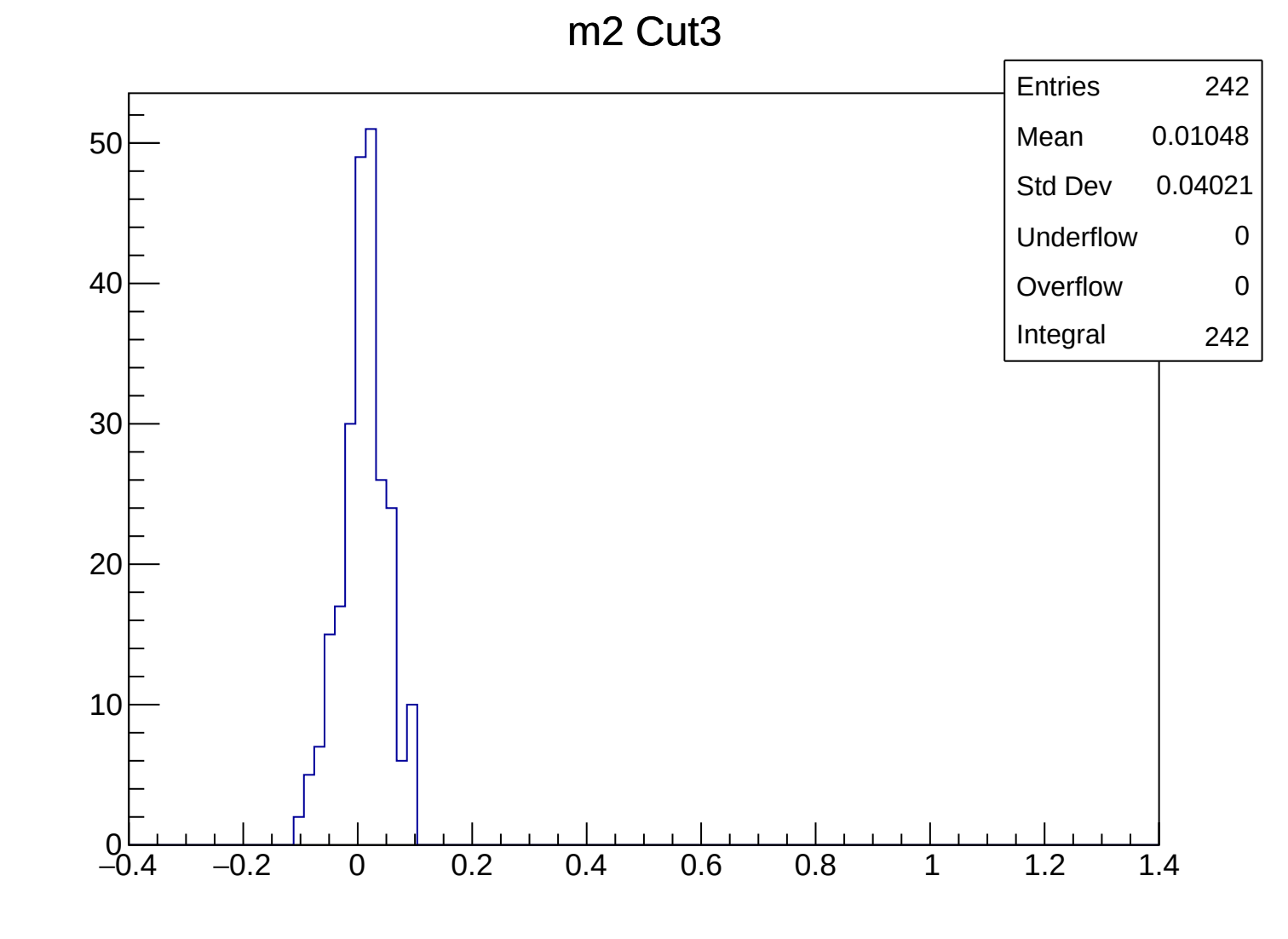

Trigger Flag BeamTofPs
Entries 108390
Mean −0.5
Std Dev 0
Underflow 1.084e+05
Overflow 0
Integral 1.084e+05
10^5
10^4
10^3
10^2
0
10
20
30
40
50
60
70
80

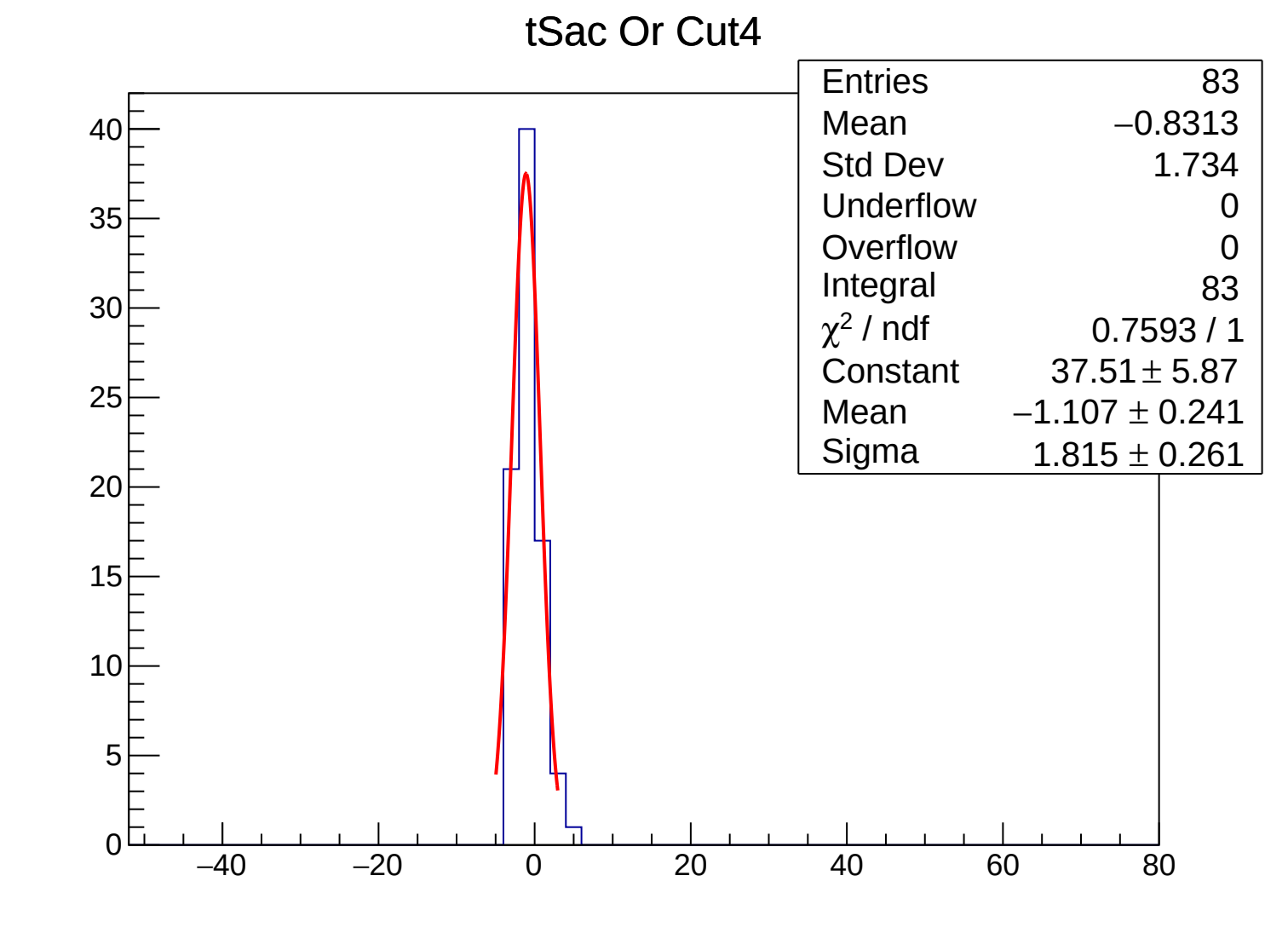

Trigger Flag BeamTofPs Cut2
Entries 11603
Mean −0.5
Std Dev 0
Underflow 1.16e+04
Overflow 0
Integral 1.16e+04
10^4
10^3
10^2
10
0
10
20
30
40
50
60
70
80

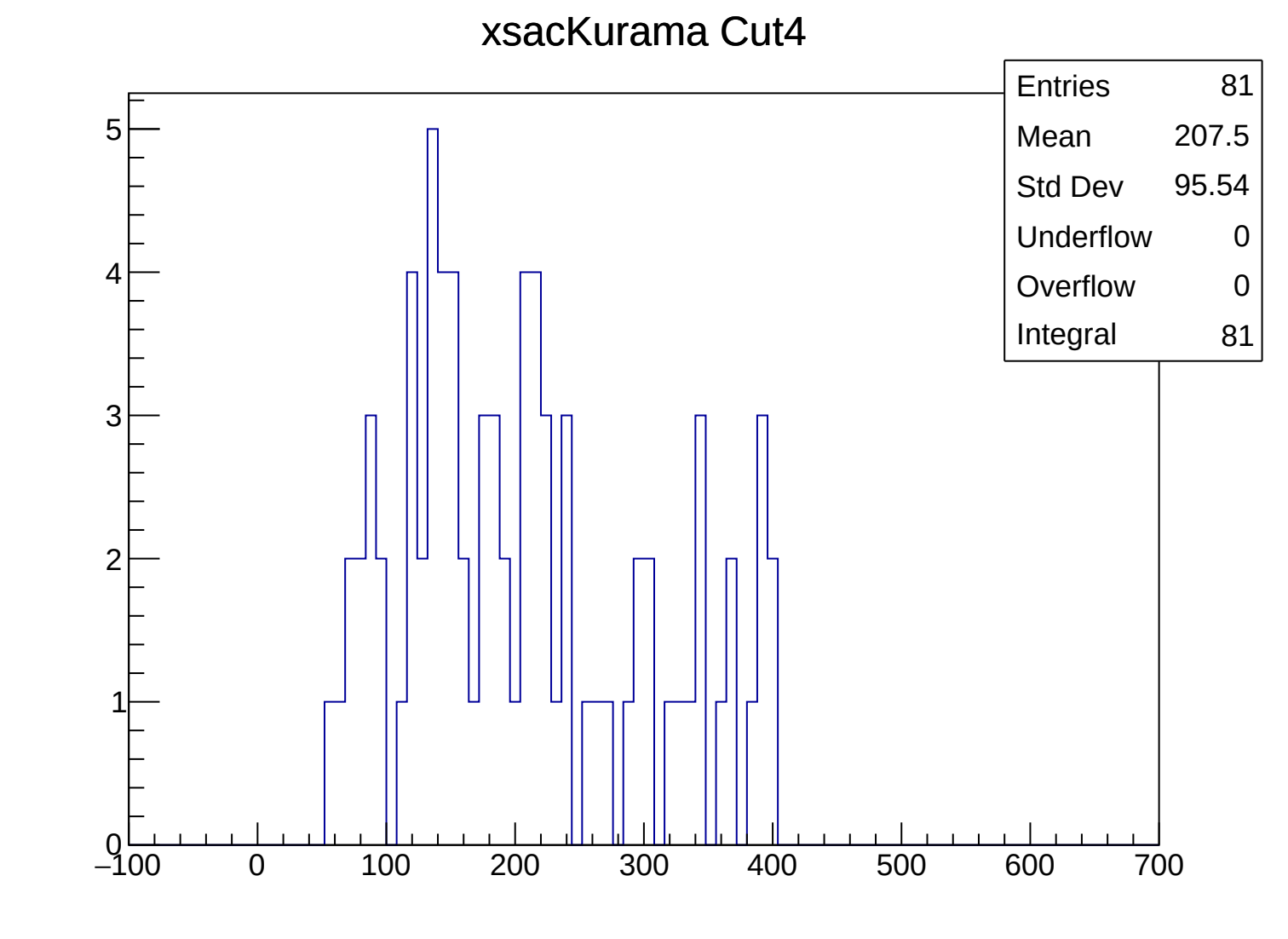

xsacKurama Cut3
Entries 242
Mean 180.9
Std Dev 89.6
Underflow 0
Overflow 0
Integral 242
12
10
8
6
4
2
0
–100
0
100
200
300
400
500
600
700

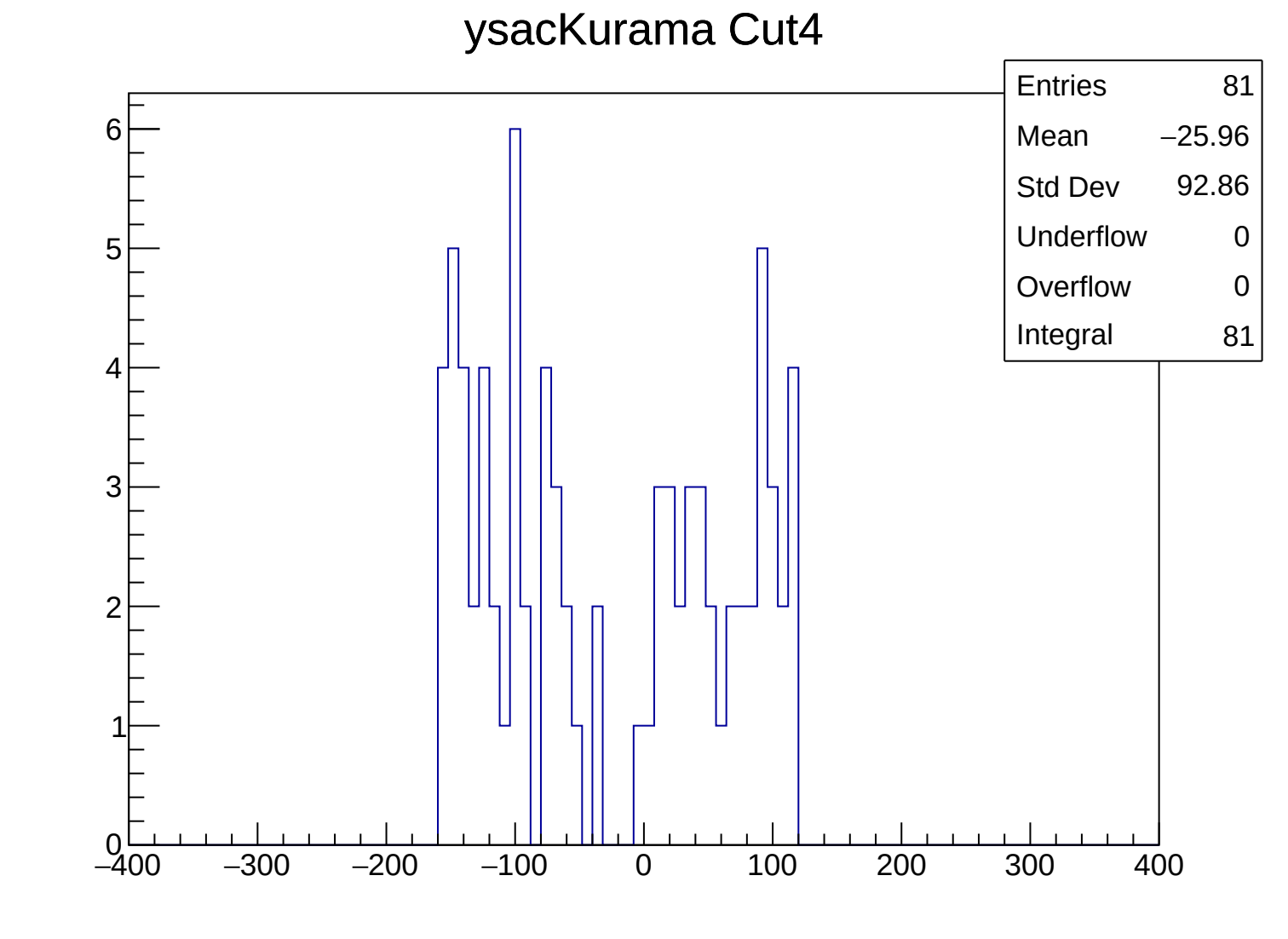

ysacKurama Cut3
Entries 242
Mean −14.34
Std Dev 87.03
Underflow 0
Overflow 0
Integral 242
14
12
10
8
6
4
2
0
−400
−300
−200
−100
0
100
200
300
400

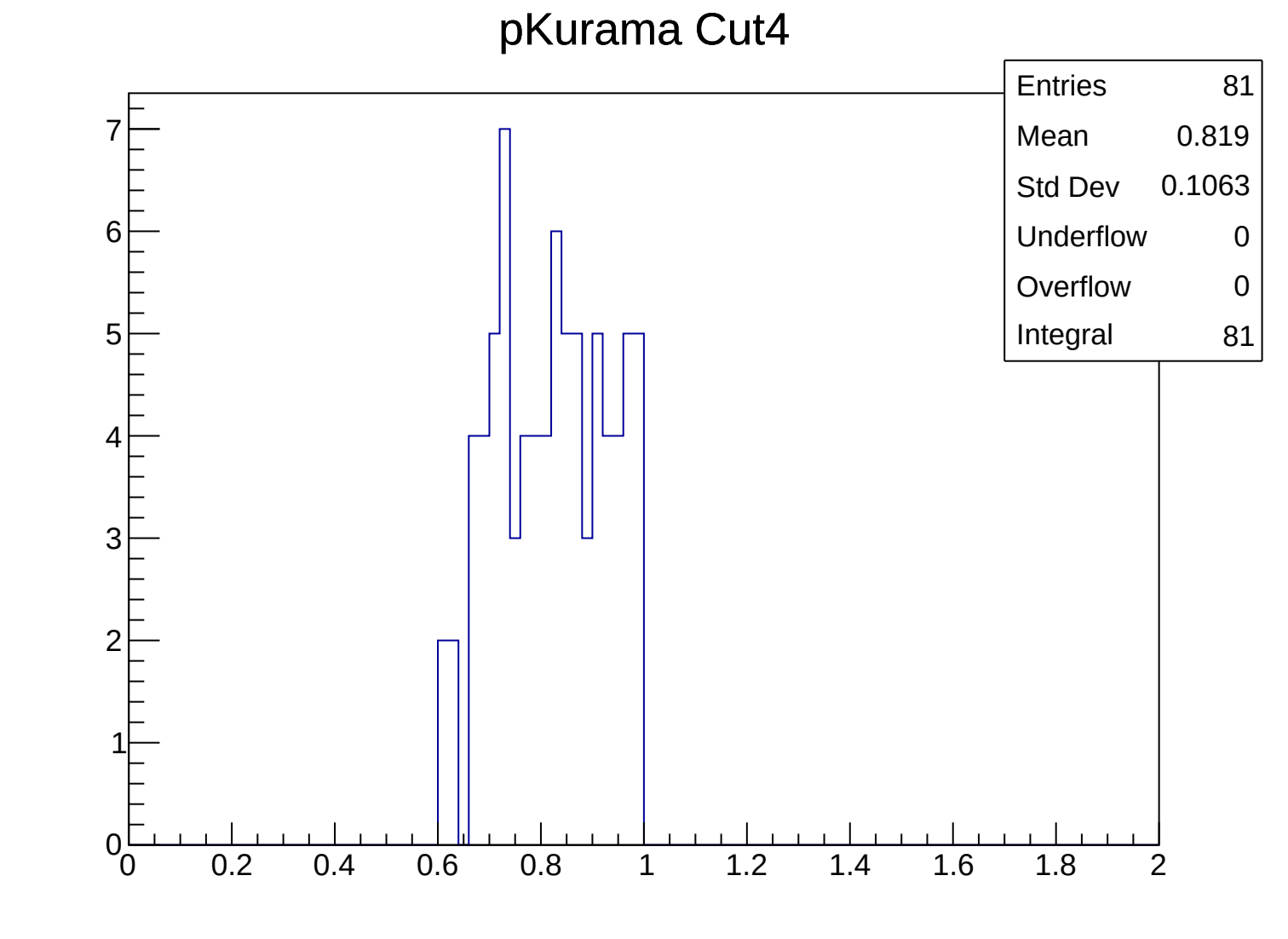

pKurama Cut3
Entries 242
Mean 0.8011
Std Dev 0.1135
Underflow 0
Overflow 0
Integral 242
0
2
4
6
8
10
12
14
16
18
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

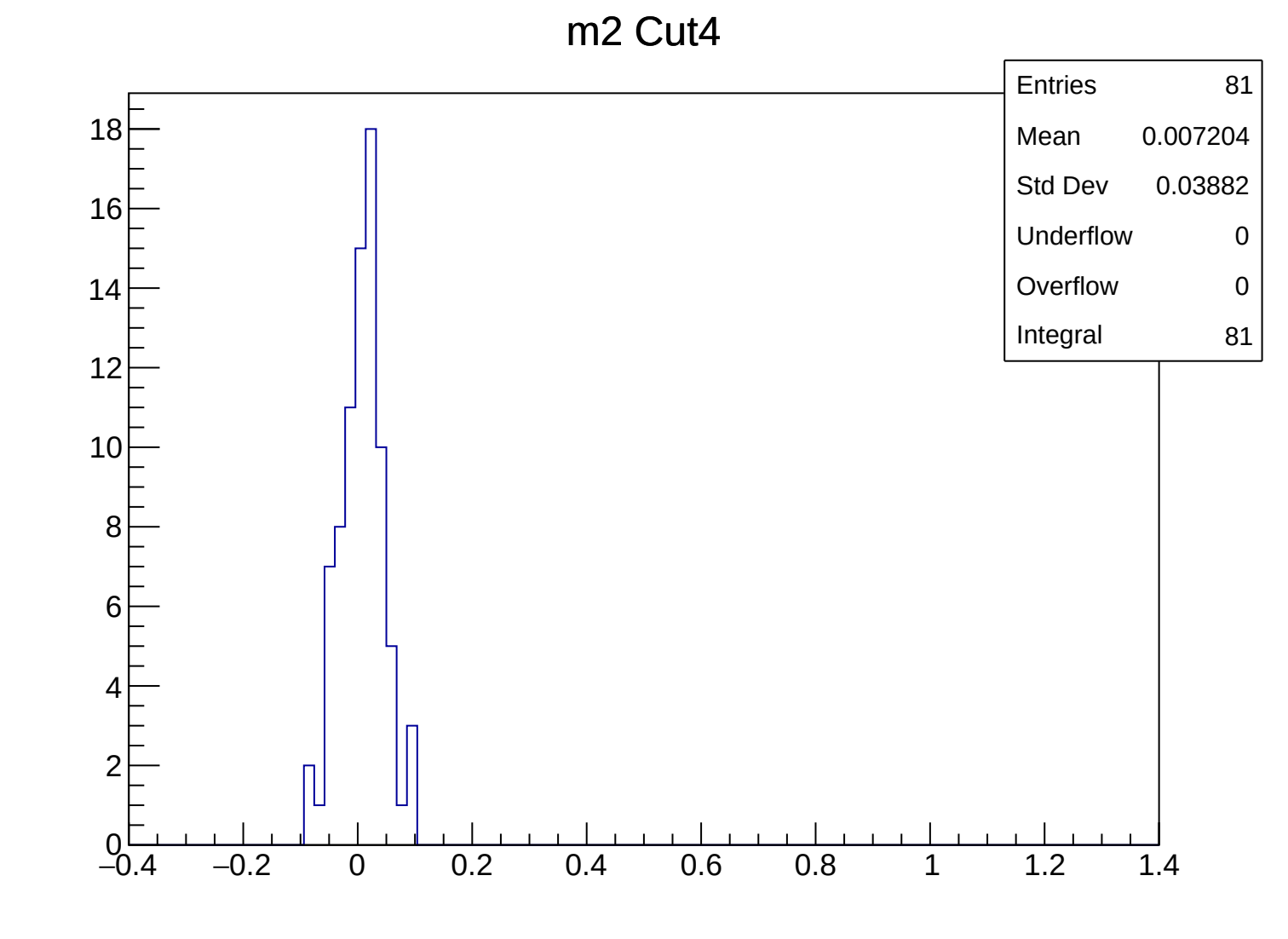

m2 Cut3
Entries 242
Mean 0.01048
Std Dev 0.04021
Underflow 0
Overflow 0
Integral 242
50
40
30
20
10
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

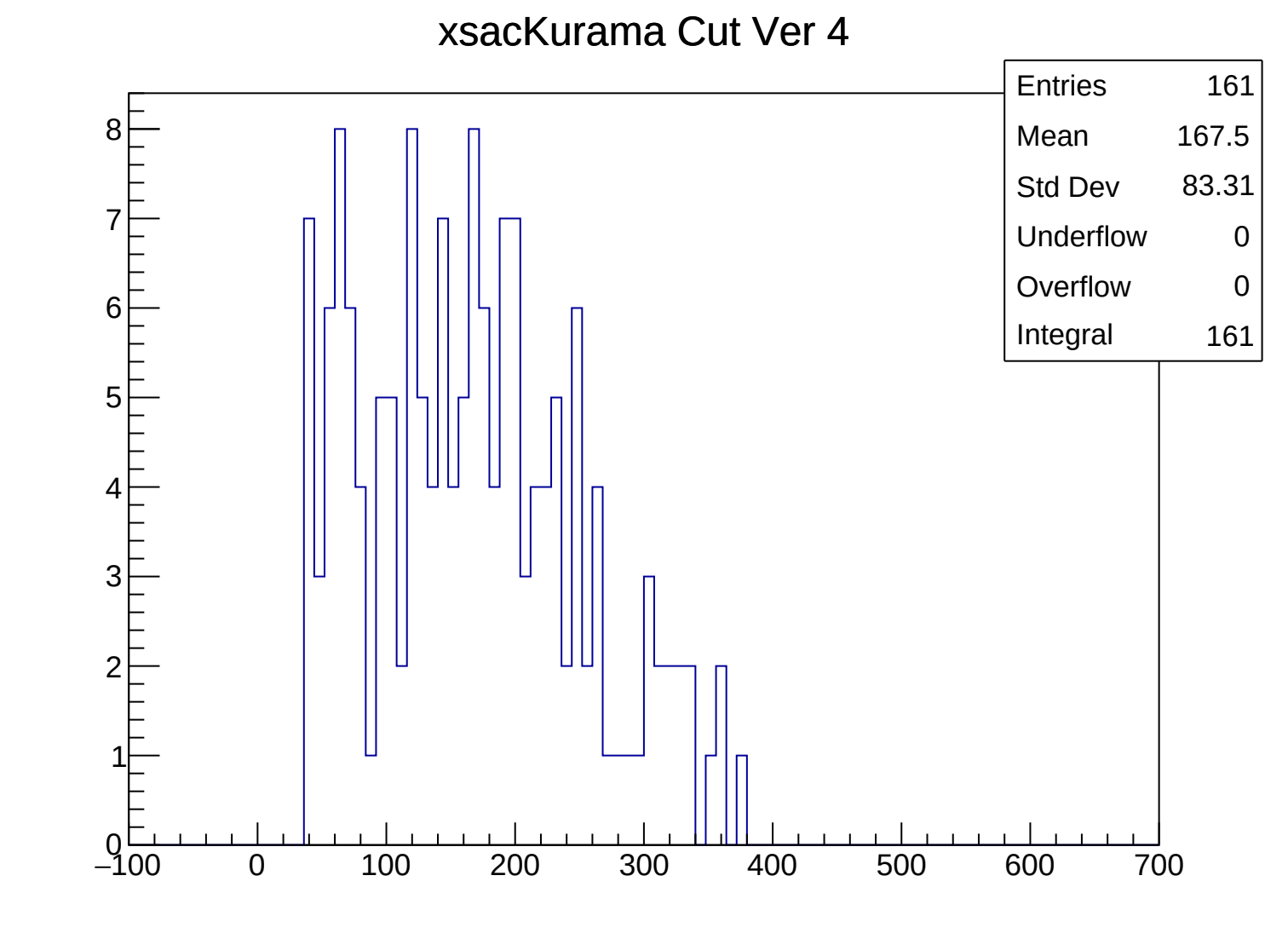

tSac Or Cut4
Entries 83
Mean −0.8313
Std Dev 1.734
Underflow 0
Overflow 0
Integral 83
χ² / ndf 0.7593 / 1
Constant 37.51 ± 5.87
Mean −1.107 ± 0.241
Sigma 1.815 ± 0.261
40
35
30
25
20
15
10
5
0
−40
−20
0
20
40
60
80

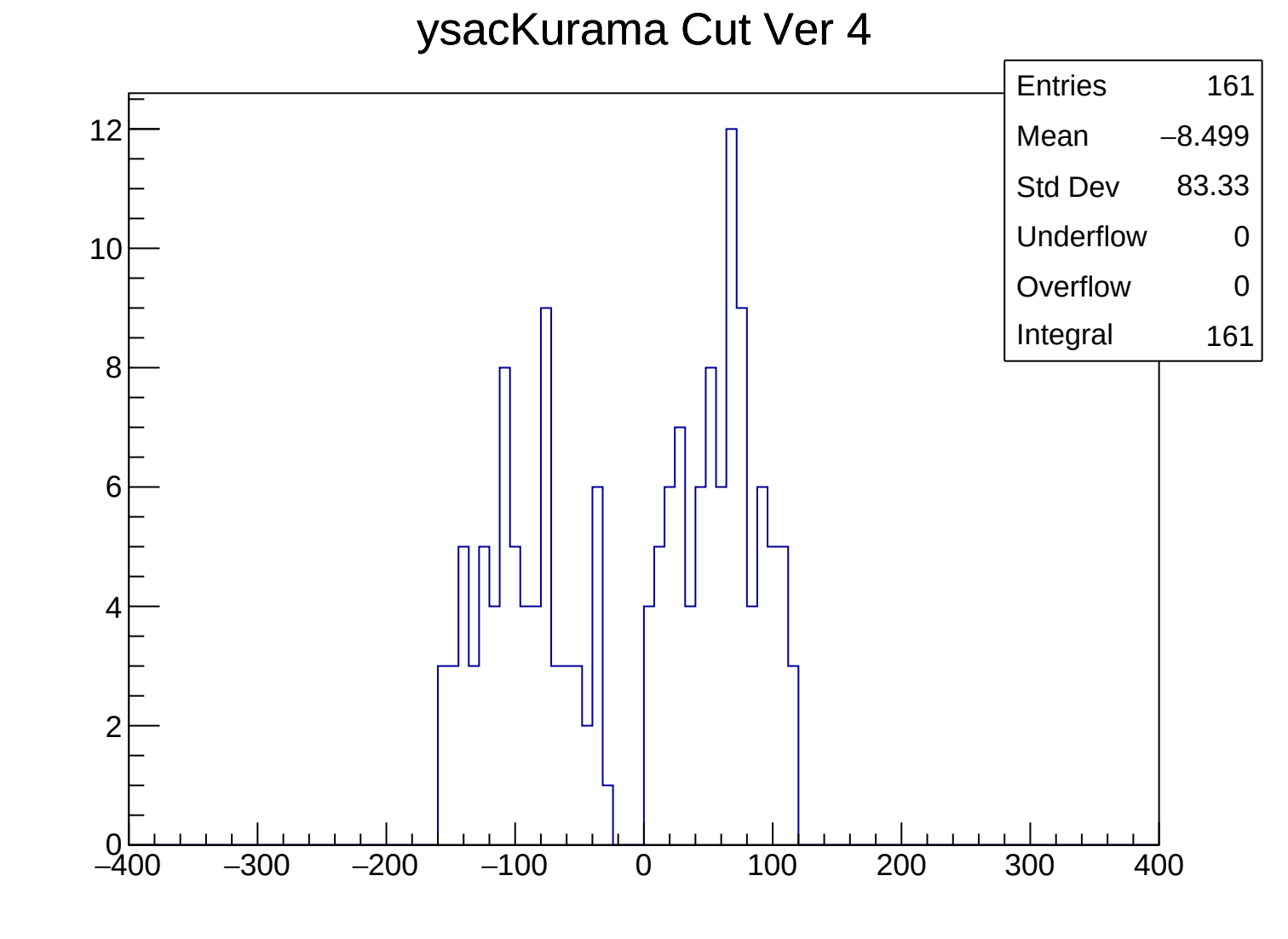

xsacKurama Cut4
Entries 81
Mean 207.5
Std Dev 95.54
Underflow 0
Overflow 0
Integral 81
0
1
2
3
4
5
–100
0
100
200
300
400
500
600
700

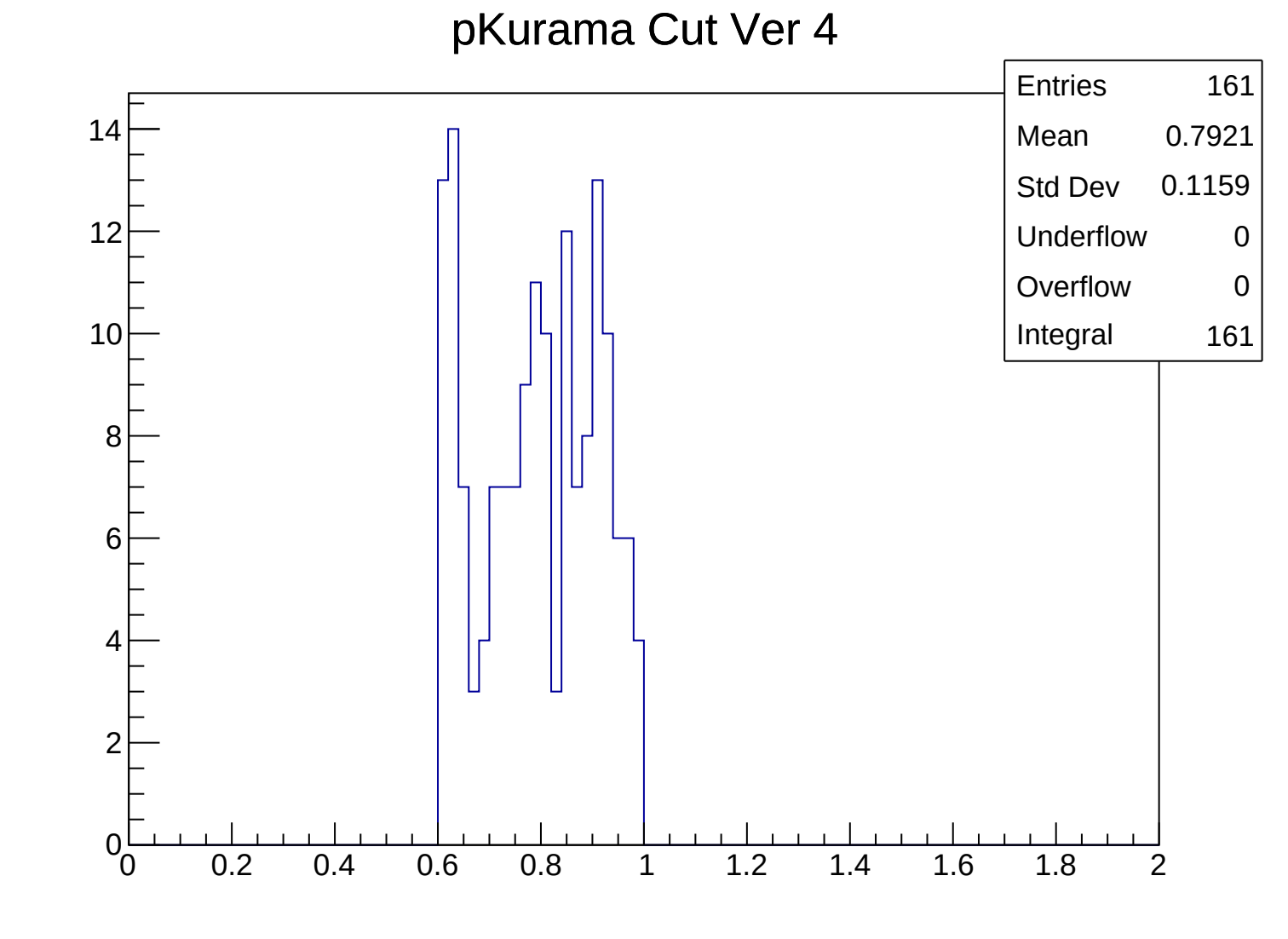

ysacKurama Cut4
Entries 81
Mean −25.96
Std Dev 92.86
Underflow 0
Overflow 0
Integral 81
6
5
4
3
2
1
0
−400
−300
−200
−100
0
100
200
300
400

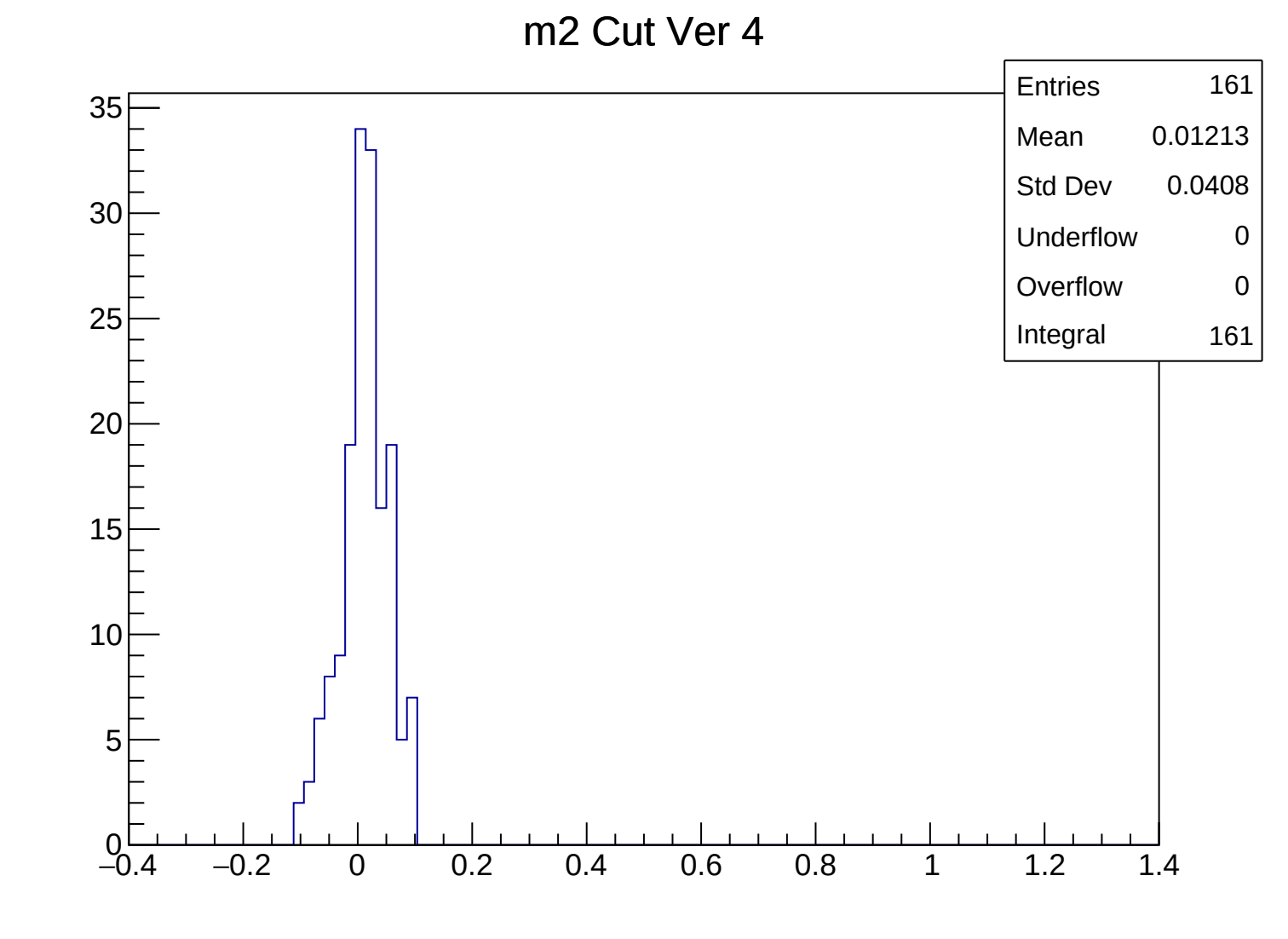

pKurama Cut4
Entries 81
Mean 0.819
Std Dev 0.1063
Underflow 0
Overflow 0
Integral 81
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

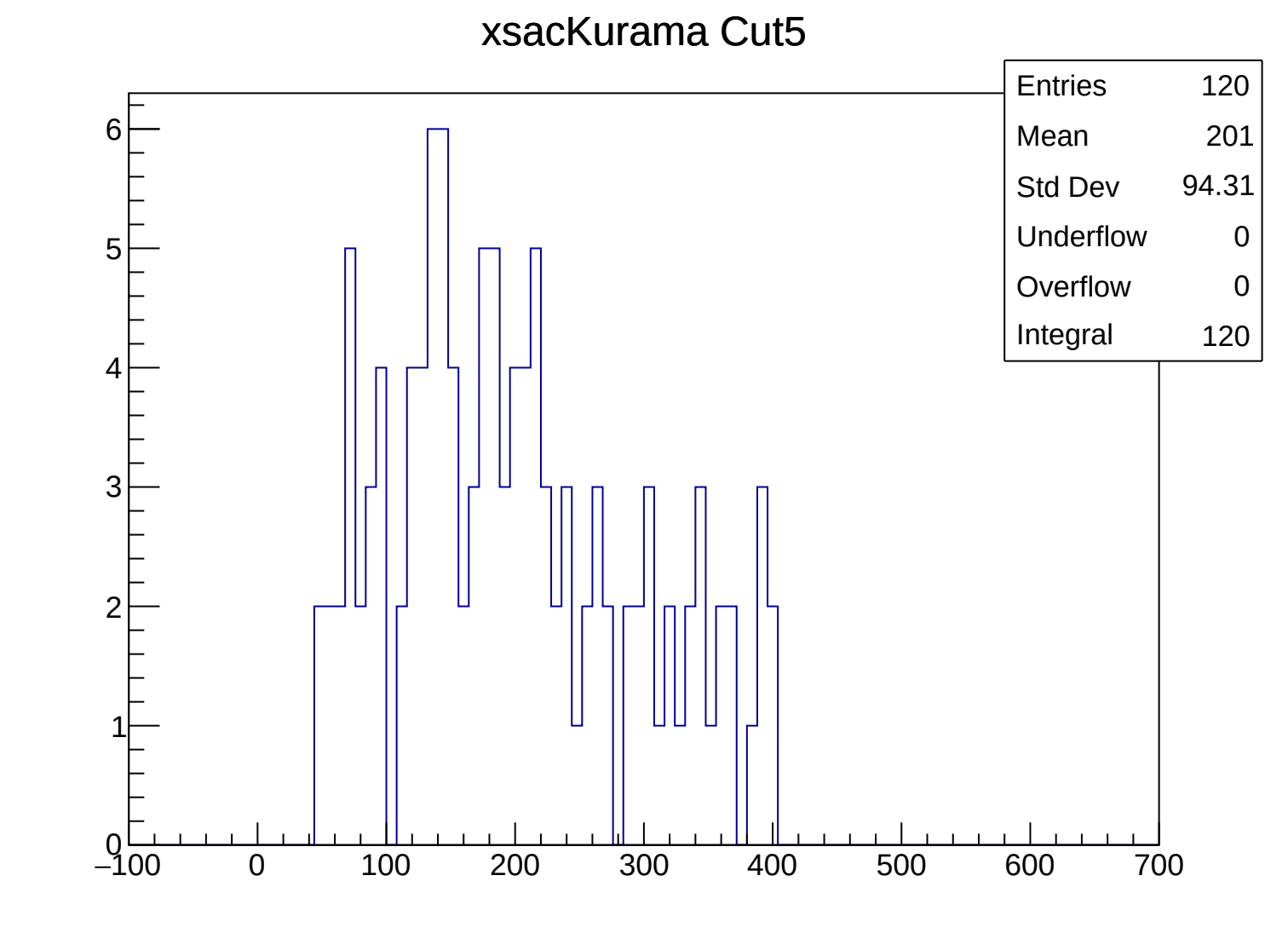

m2 Cut4
Entries 81
Mean 0.007204
Std Dev 0.03882
Underflow 0
Overflow 0
Integral 81
18
16
14
12
10
8
6
4
2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

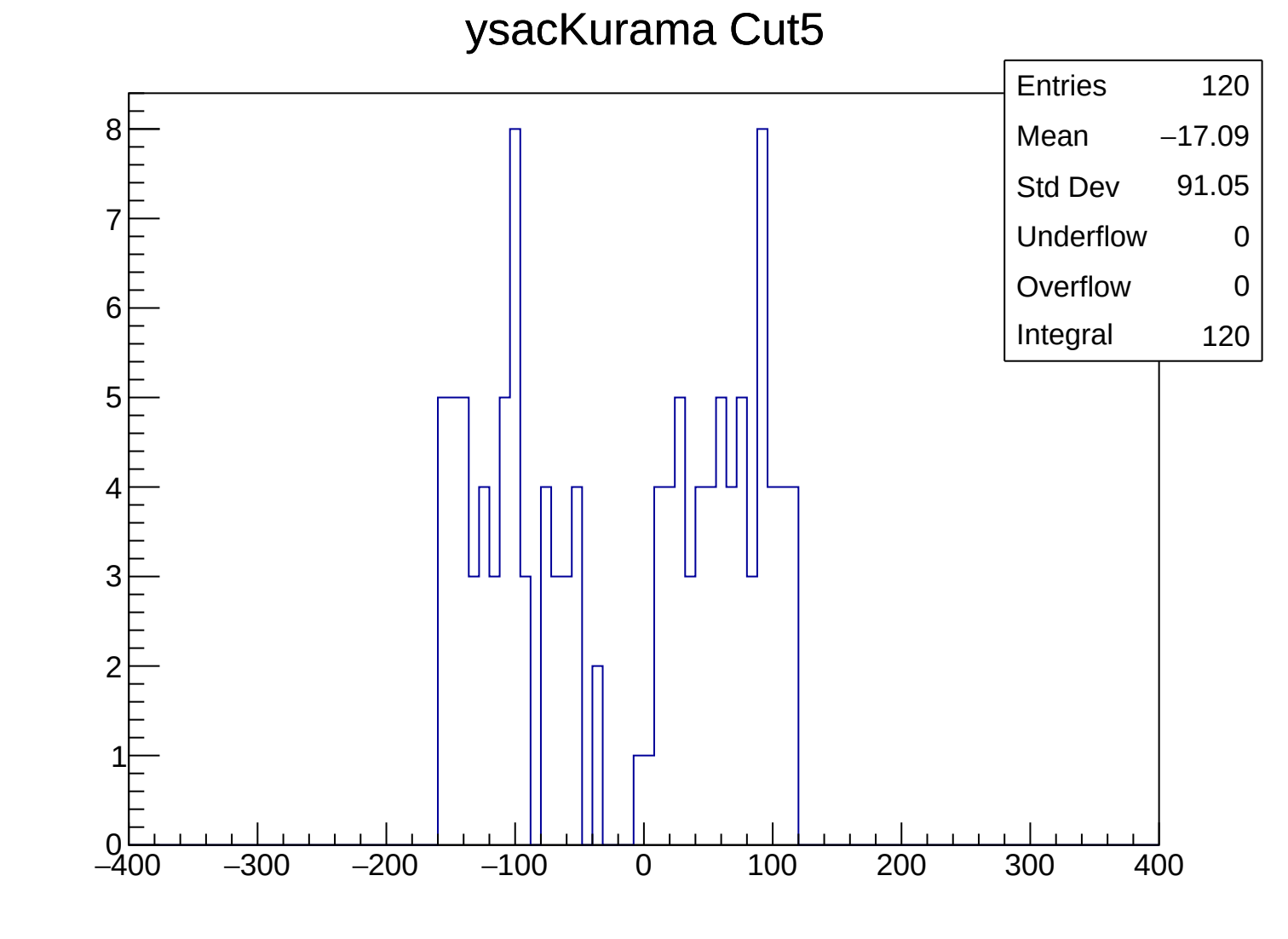

xsacKurama Cut Ver 4
Entries 161
Mean 167.5
Std Dev 83.31
Underflow 0
Overflow 0
Integral 161
0
1
2
3
4
5
6
7
8
–100
0
100
200
300
400
500
600
700

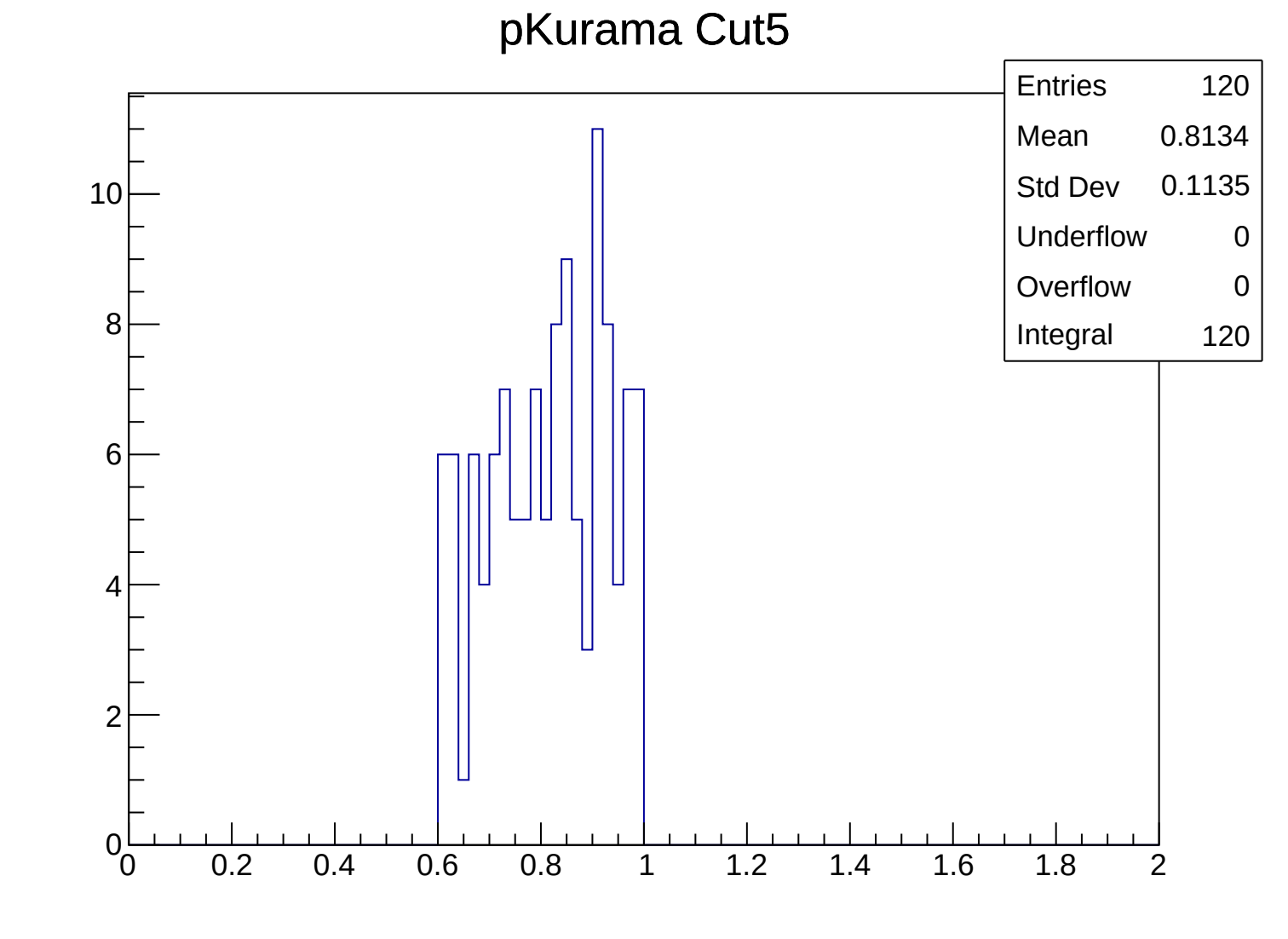

ysacKurama Cut Ver 4
Entries 161
Mean −8.499
Std Dev 83.33
Underflow 0
Overflow 0
Integral 161
12
10
8
6
4
2
0
−400
−300
−200
−100
0
100
200
300
400

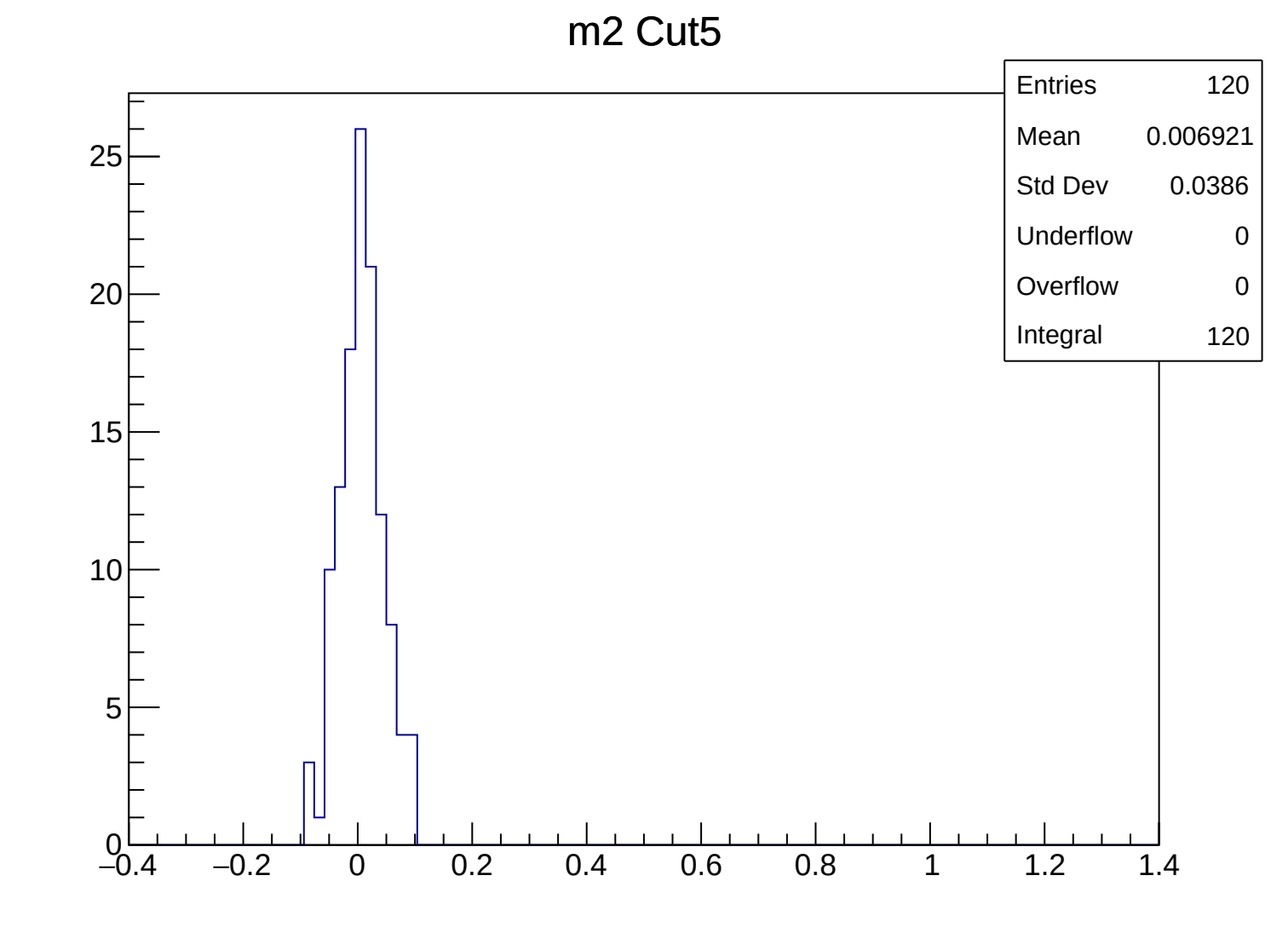

pKurama Cut Ver 4
Entries 161
Mean 0.7921
Std Dev 0.1159
Underflow 0
Overflow 0
Integral 161
0
2
4
6
8
10
12
14
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

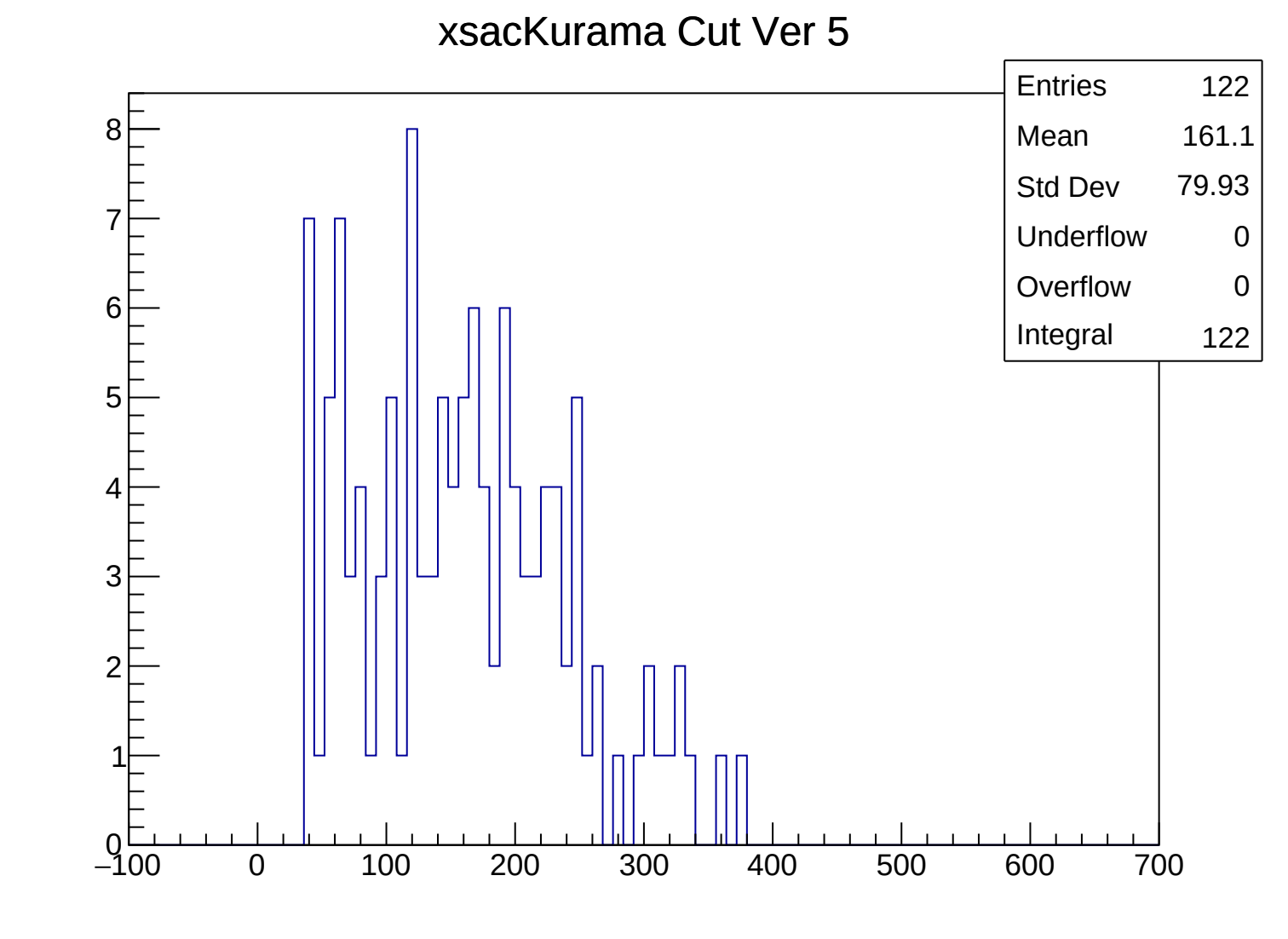

m2 Cut Ver 4
Entries 161
Mean 0.01213
Std Dev 0.0408
Underflow 0
Overflow 0
Integral 161
35
30
25
20
15
10
5
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

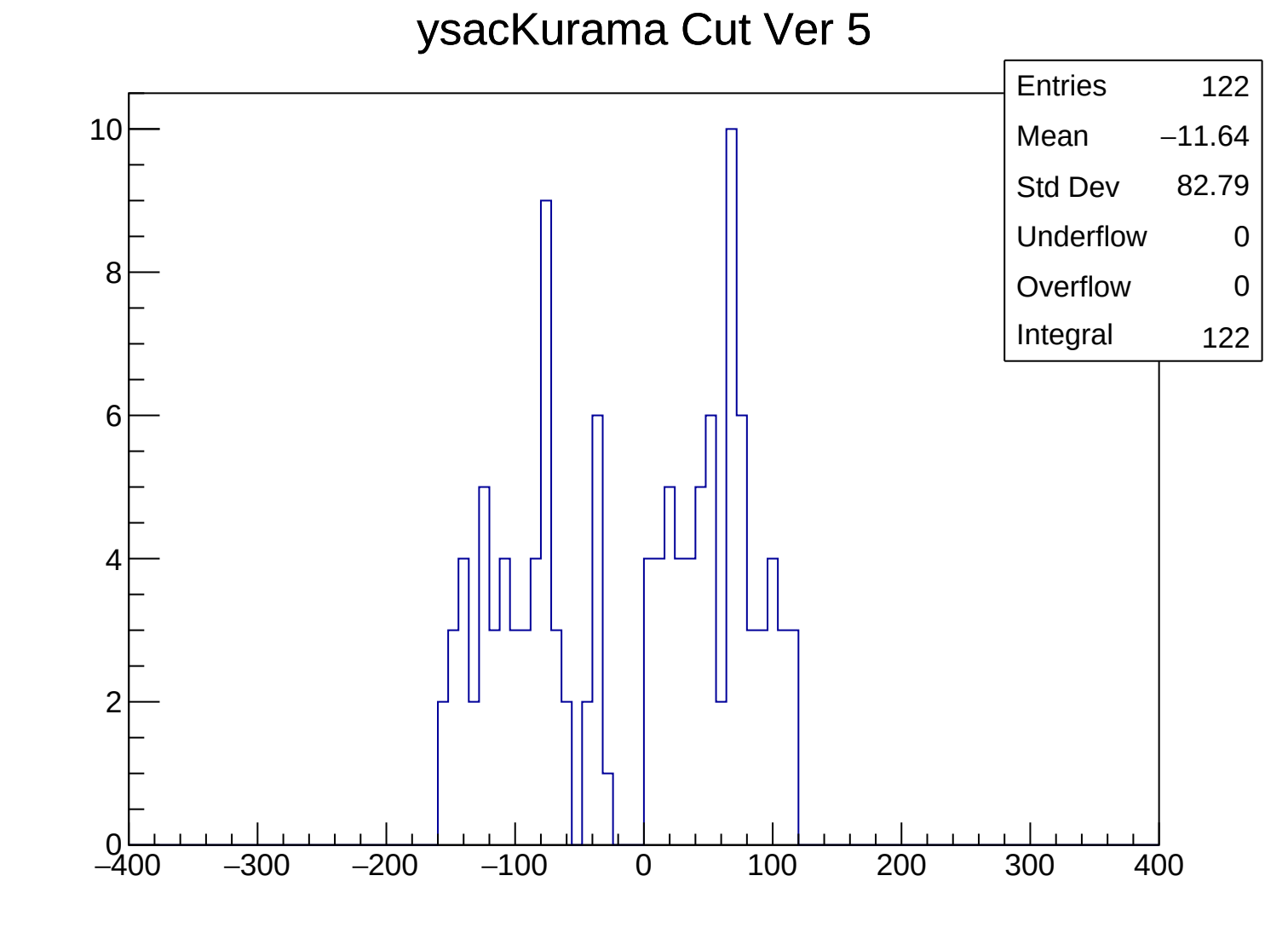

xsacKurama Cut5
Entries 120
Mean 201
Std Dev 94.31
Underflow 0
Overflow 0
Integral 120
0
1
2
3
4
5
6
–100
0
100
200
300
400
500
600
700

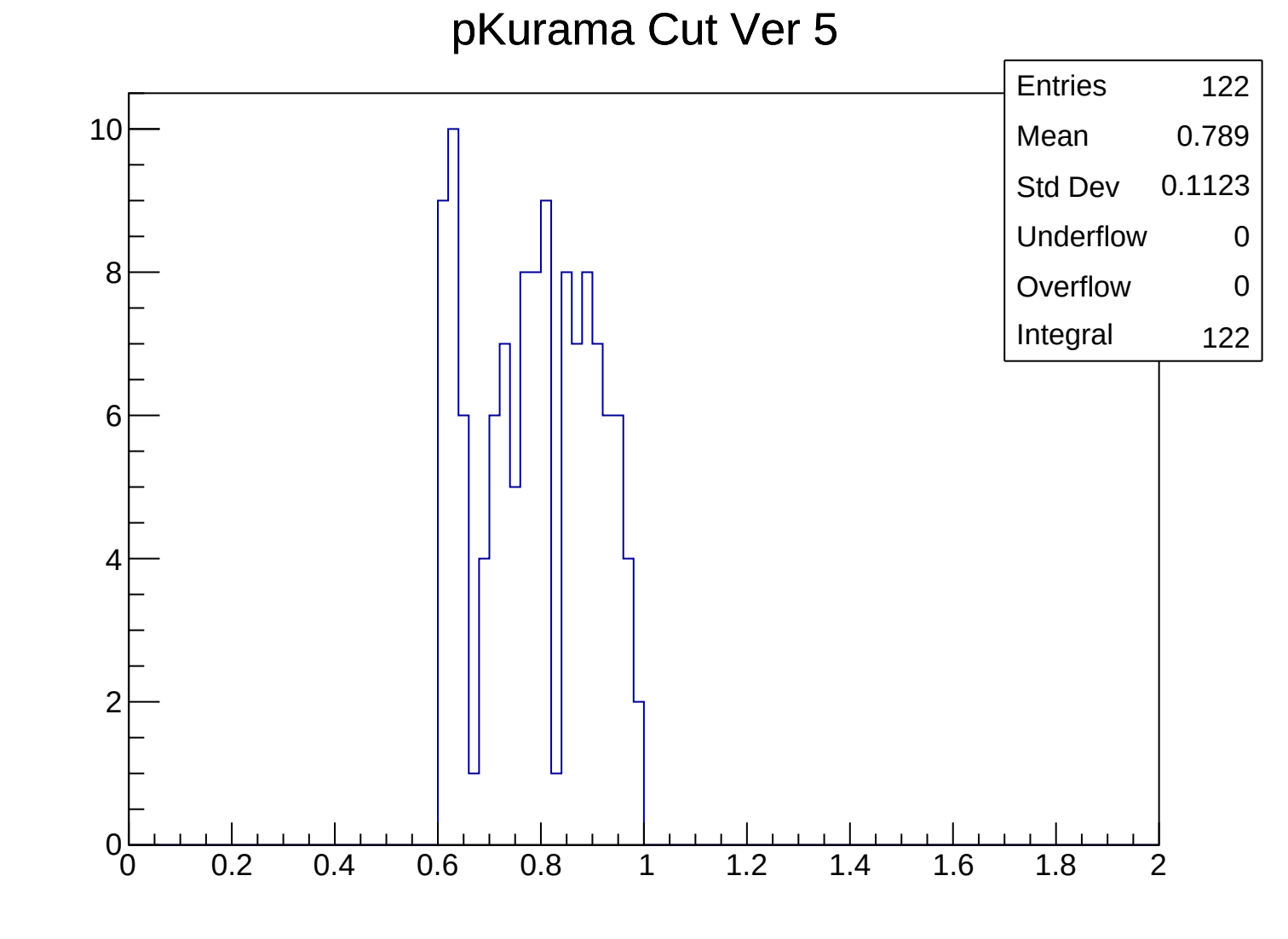

ysacKurama Cut5
Entries 120
Mean −17.09
Std Dev 91.05
Underflow 0
Overflow 0
Integral 120
8
7
6
5
4
3
2
1
0
−400
−300
−200
−100
0
100
200
300
400

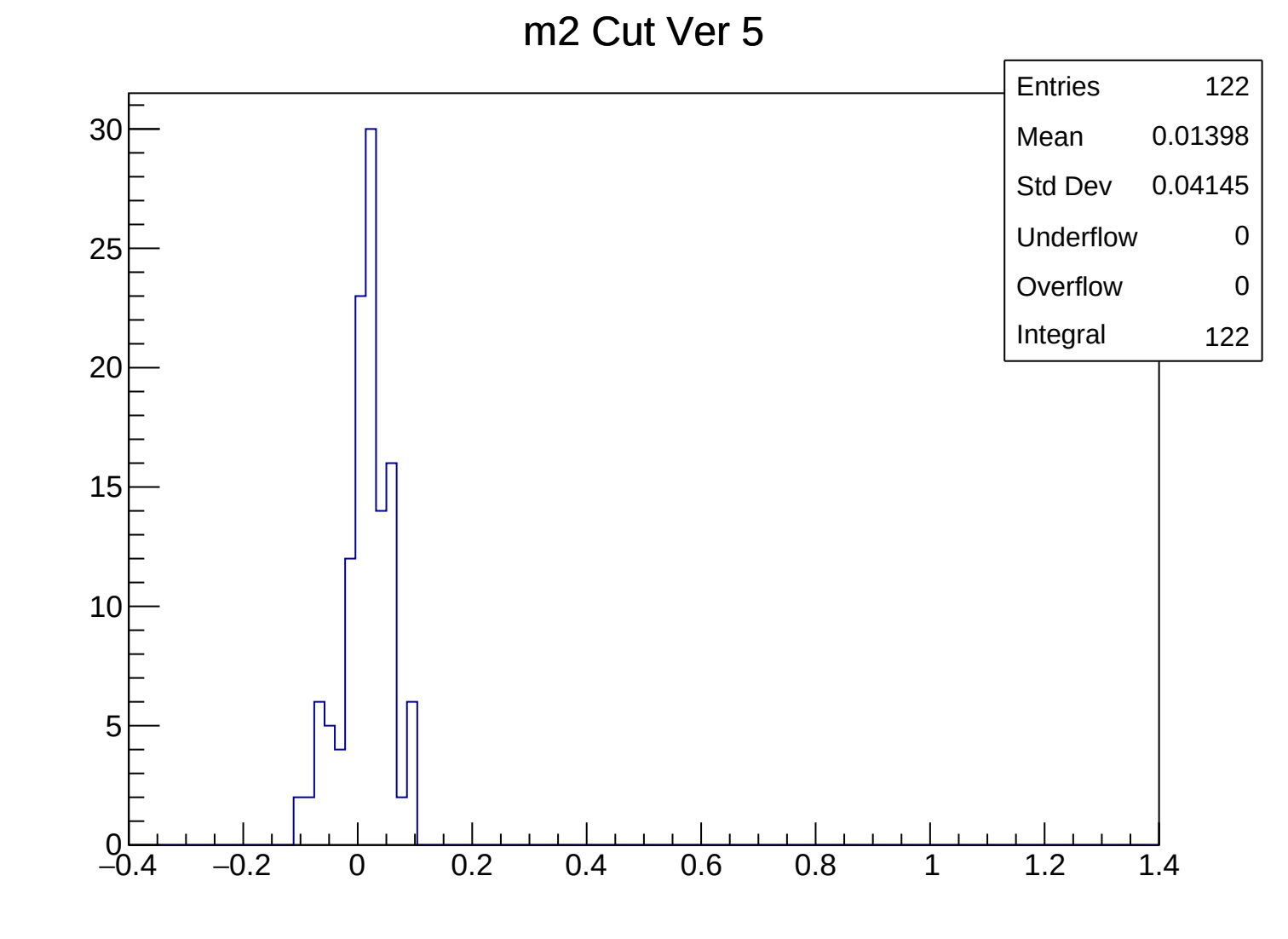

pKurama Cut5
Entries 120
Mean 0.8134
Std Dev 0.1135
Underflow 0
Overflow 0
Integral 120
0
2
4
6
8
10
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

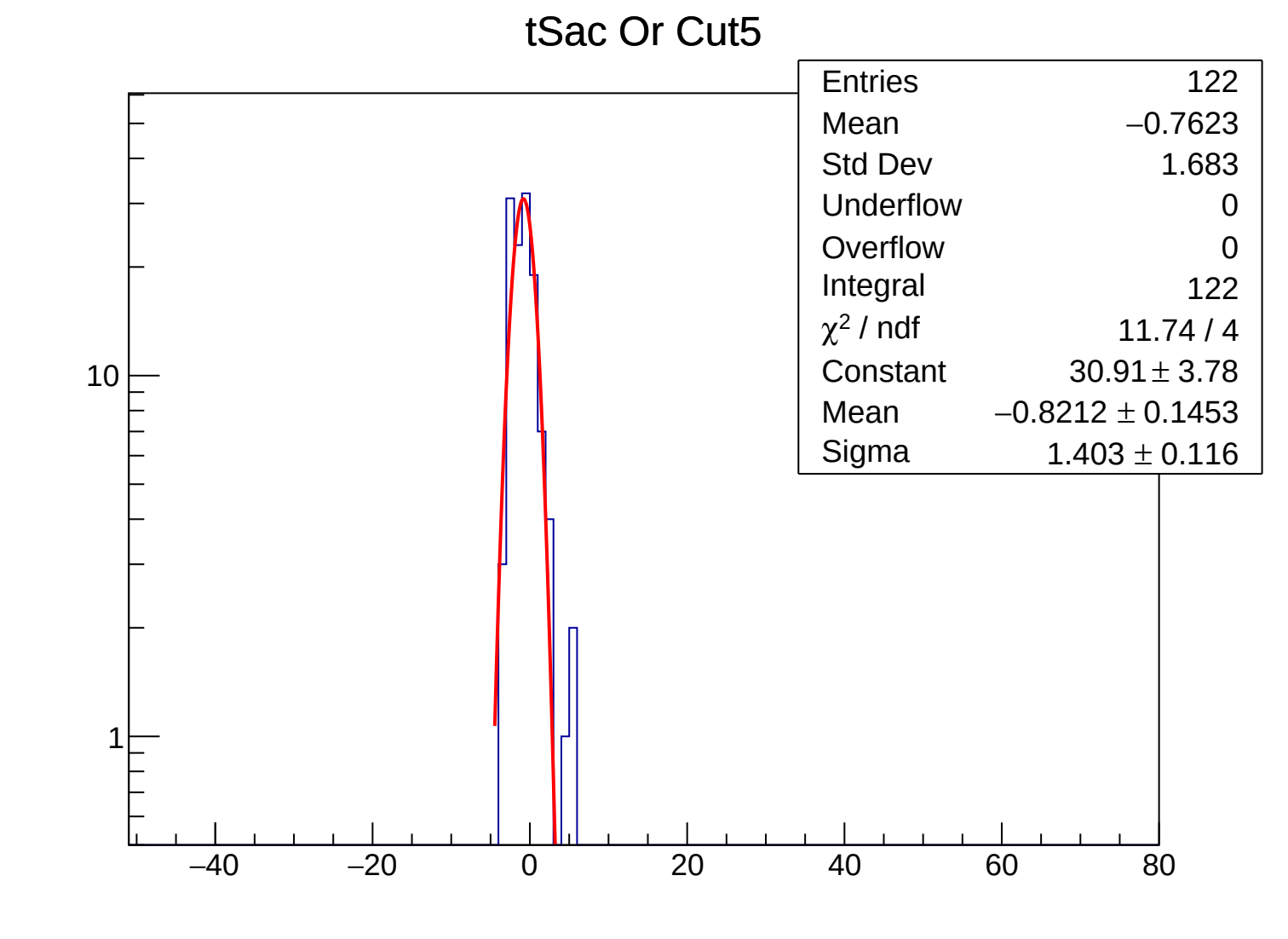

m2 Cut5
Entries 120
Mean 0.006921
Std Dev 0.0386
Underflow 0
Overflow 0
Integral 120
25
20
15
10
5
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

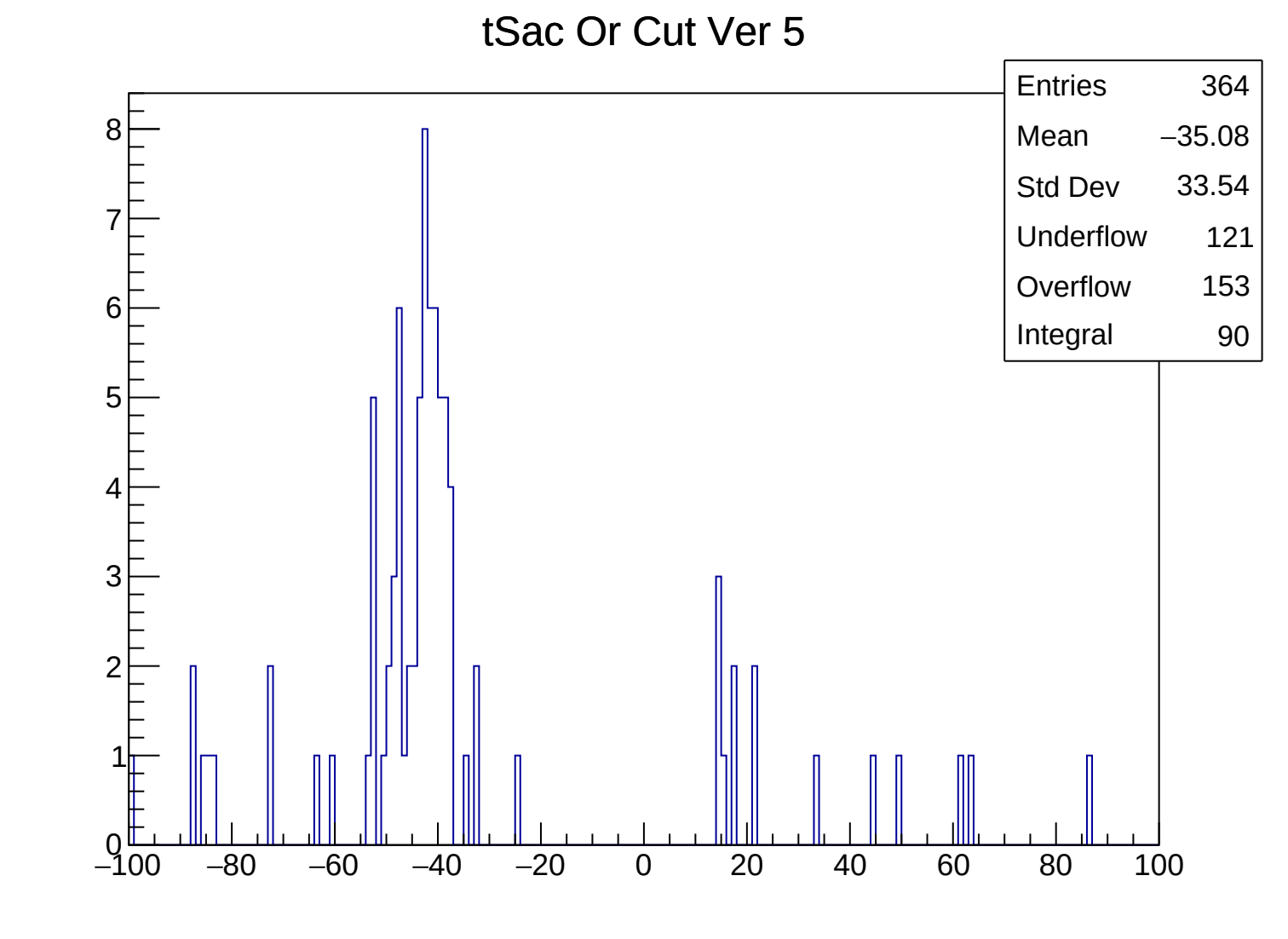

xsacKurama Cut Ver 5
Entries 122
Mean 161.1
Std Dev 79.93
Underflow 0
Overflow 0
Integral 122
0
1
2
3
4
5
6
7
8
–100
0
100
200
300
400
500
600
700

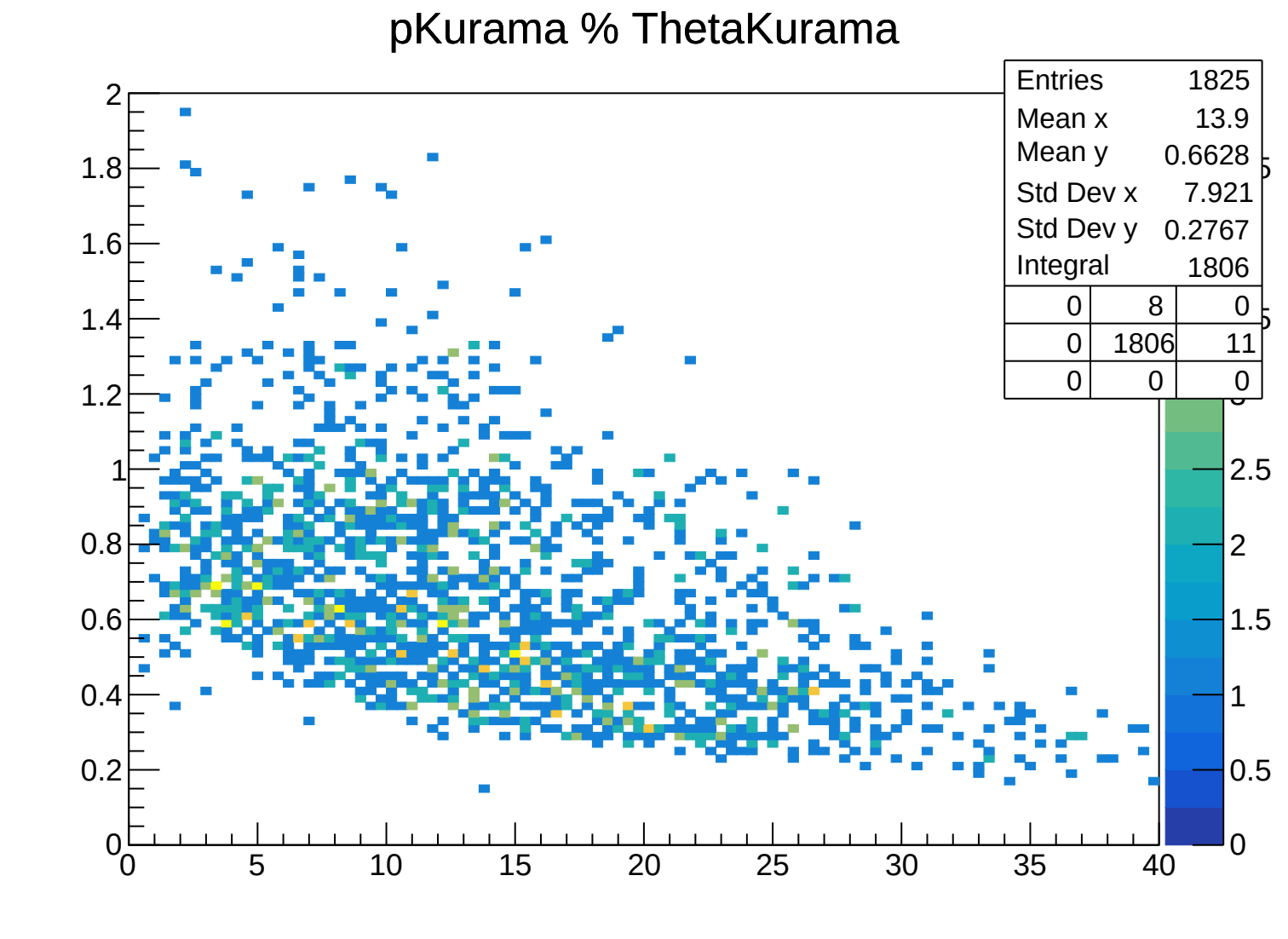

ysacKurama Cut Ver 5
Entries 122
Mean −11.64
Std Dev 82.79
Underflow 0
Overflow 0
Integral 122
10
8
6
4
2
0
−400
−300
−200
−100
0
100
200
300
400

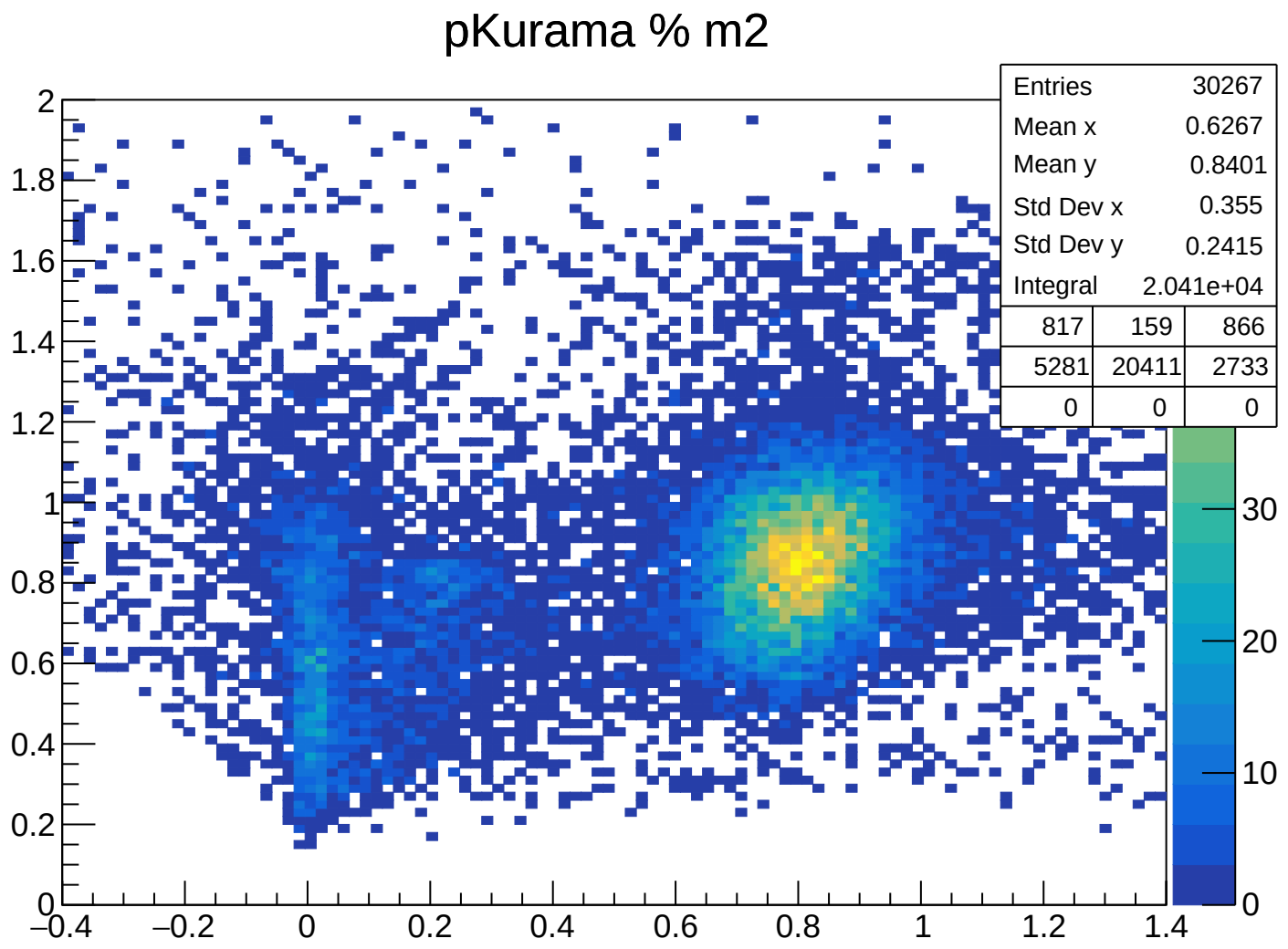

pKurama Cut Ver 5
Entries 122
Mean 0.789
Std Dev 0.1123
Underflow 0
Overflow 0
Integral 122
10
8
6
4
2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

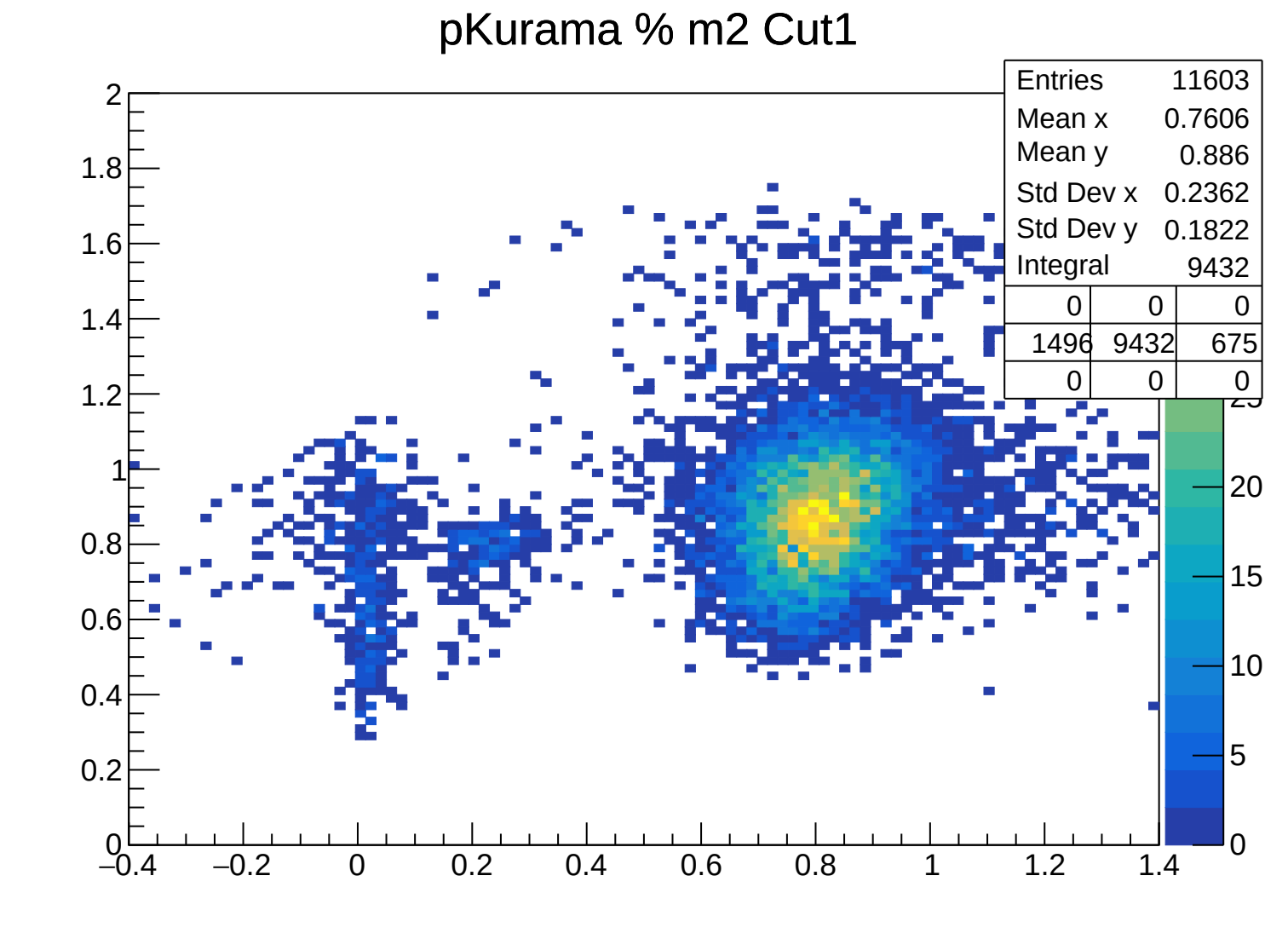

m2 Cut Ver 5
Entries 122
Mean 0.01398
Std Dev 0.04145
Underflow 0
Overflow 0
Integral 122
30
25
20
15
10
5
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

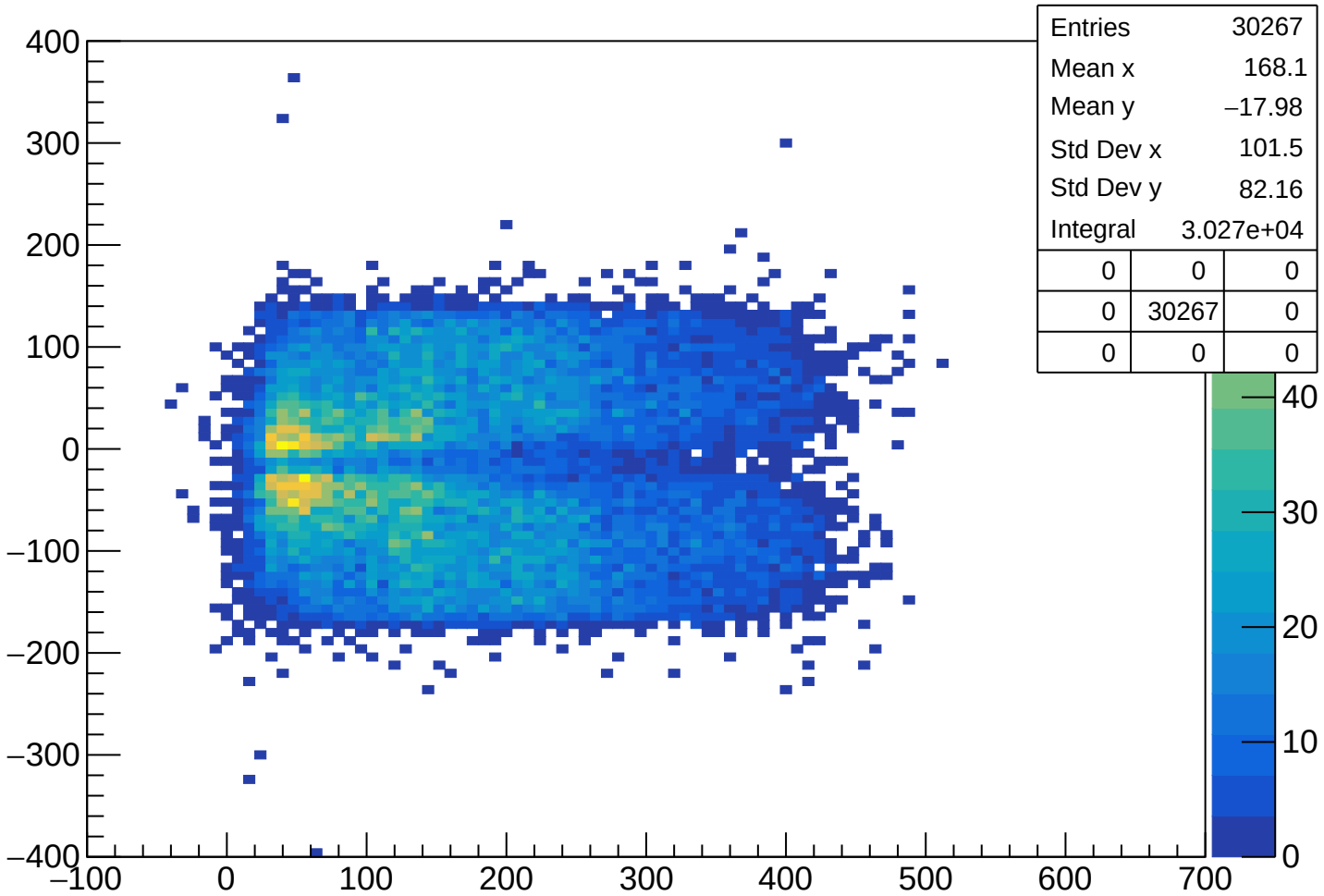

tSac Or Cut5
Entries 122
Mean –0.7623
Std Dev 1.683
Underflow 0
Overflow 0
Integral 122
χ² / ndf 11.74 / 4
Constant 30.91 ± 3.78
Mean –0.8212 ± 0.1453
Sigma 1.403 ± 0.116
10
1
–40
–20
0
20
40
60
80

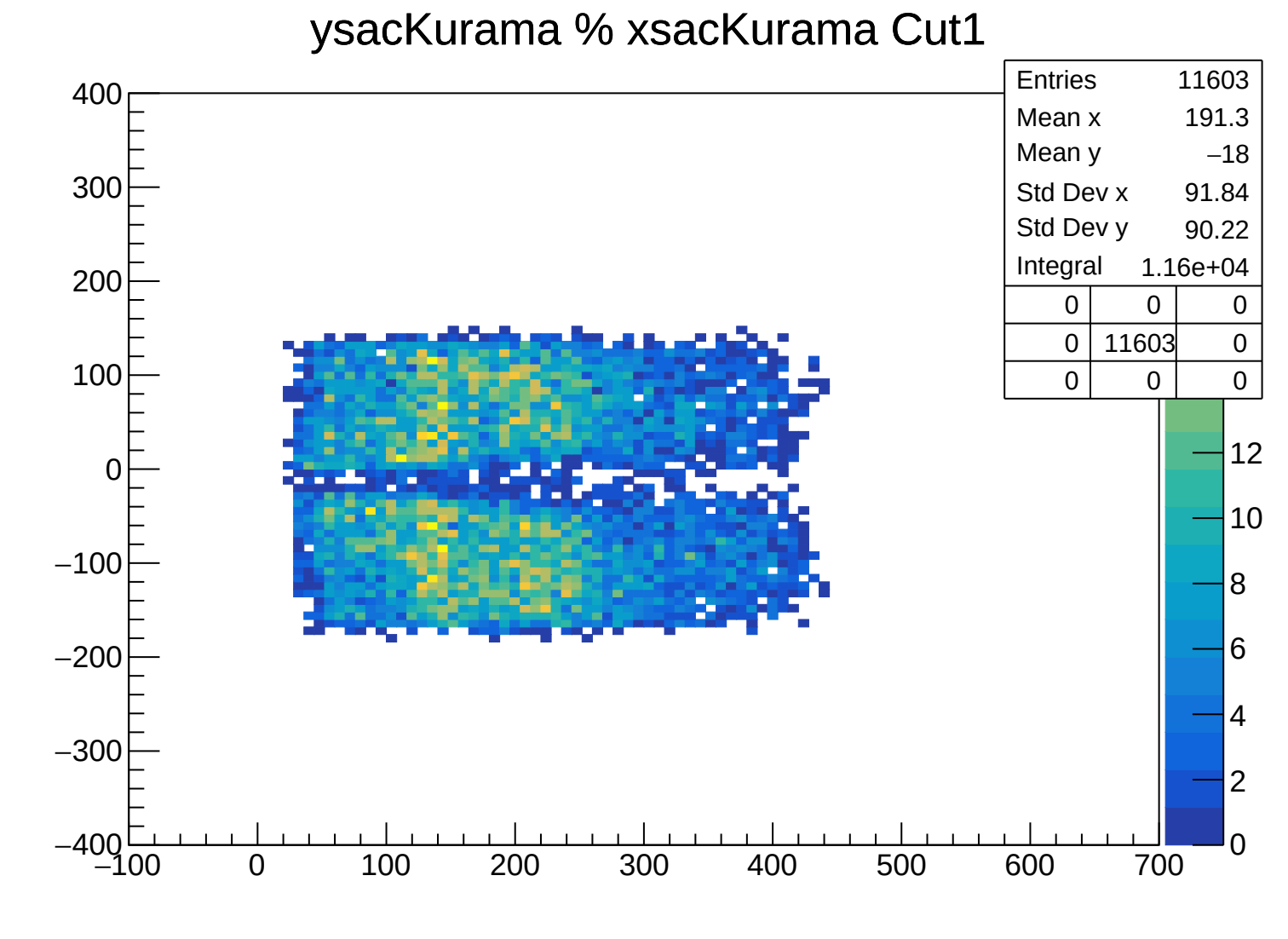

tSac Or Cut Ver 5
Entries 364
Mean −35.08
Std Dev 33.54
Underflow 121
Overflow 153
Integral 90
0
1
2
3
4
5
6
7
8
−100
−80
−60
−40
−20
0
20
40
60
80
100

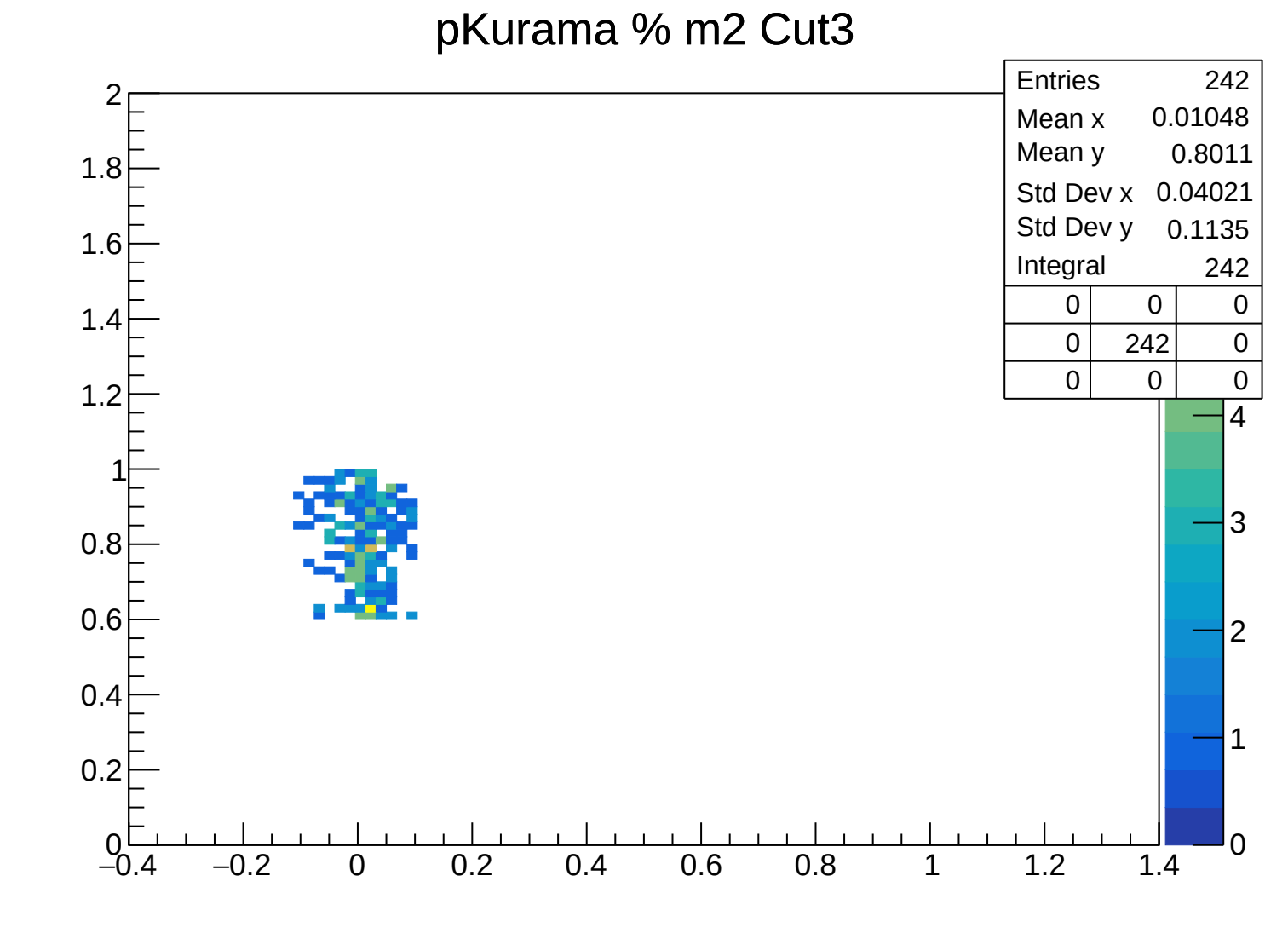

pKurama % ThetaKurama
Entries 1825
Mean x 13.9
Mean y 0.6628
Std Dev x 7.921
Std Dev y 0.2767
Integral 1806
0 8 0
0 1806 11
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0 5 10 15 20 25 30 35 40
2.5
2
1.5
1
0.5
0

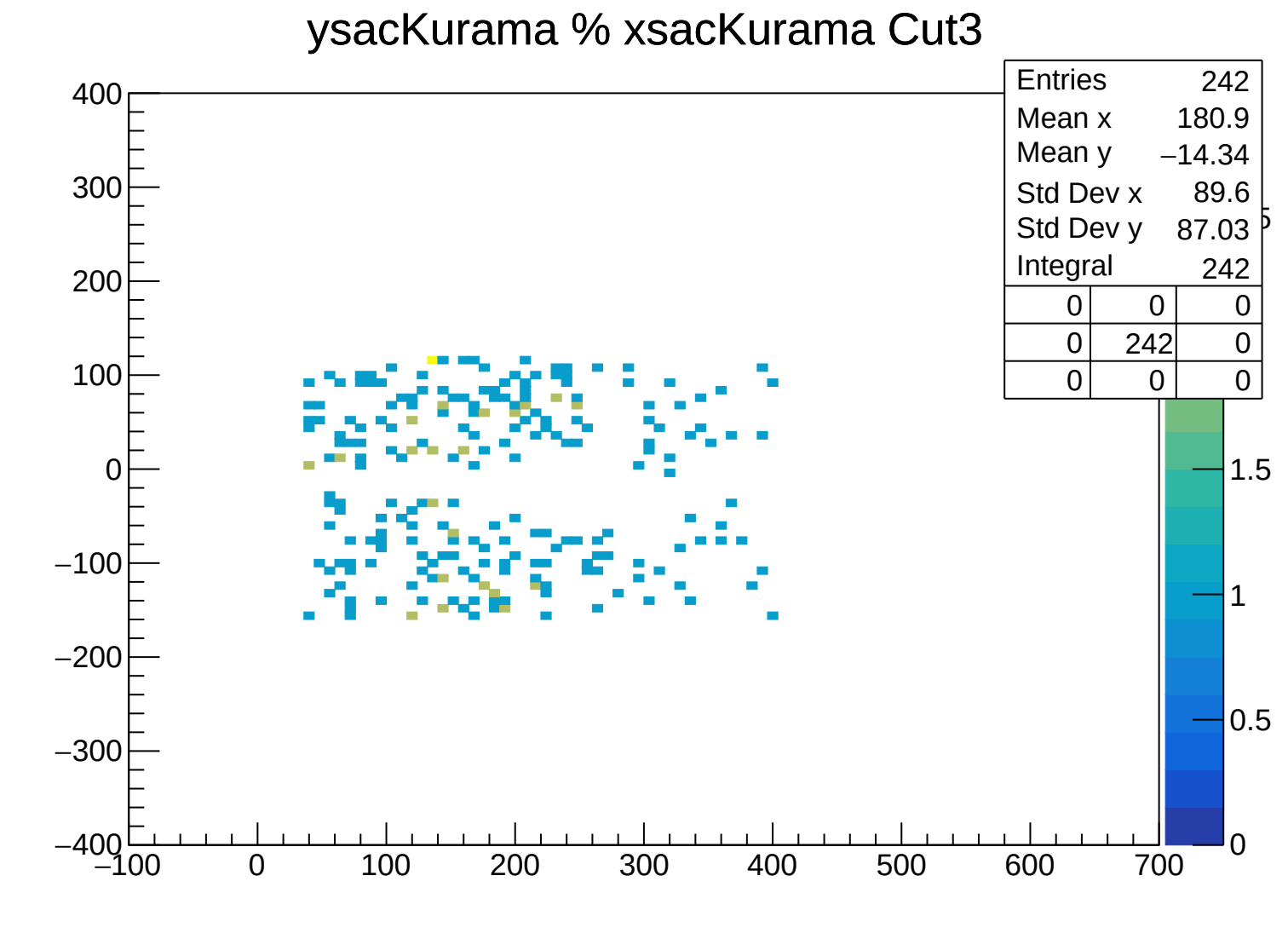

pKurama % m2
Entries 30267
Mean x 0.6267
Mean y 0.8401
Std Dev x 0.355
Std Dev y 0.2415
Integral 2.041e+04
817 159 866
5281 20411 2733
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

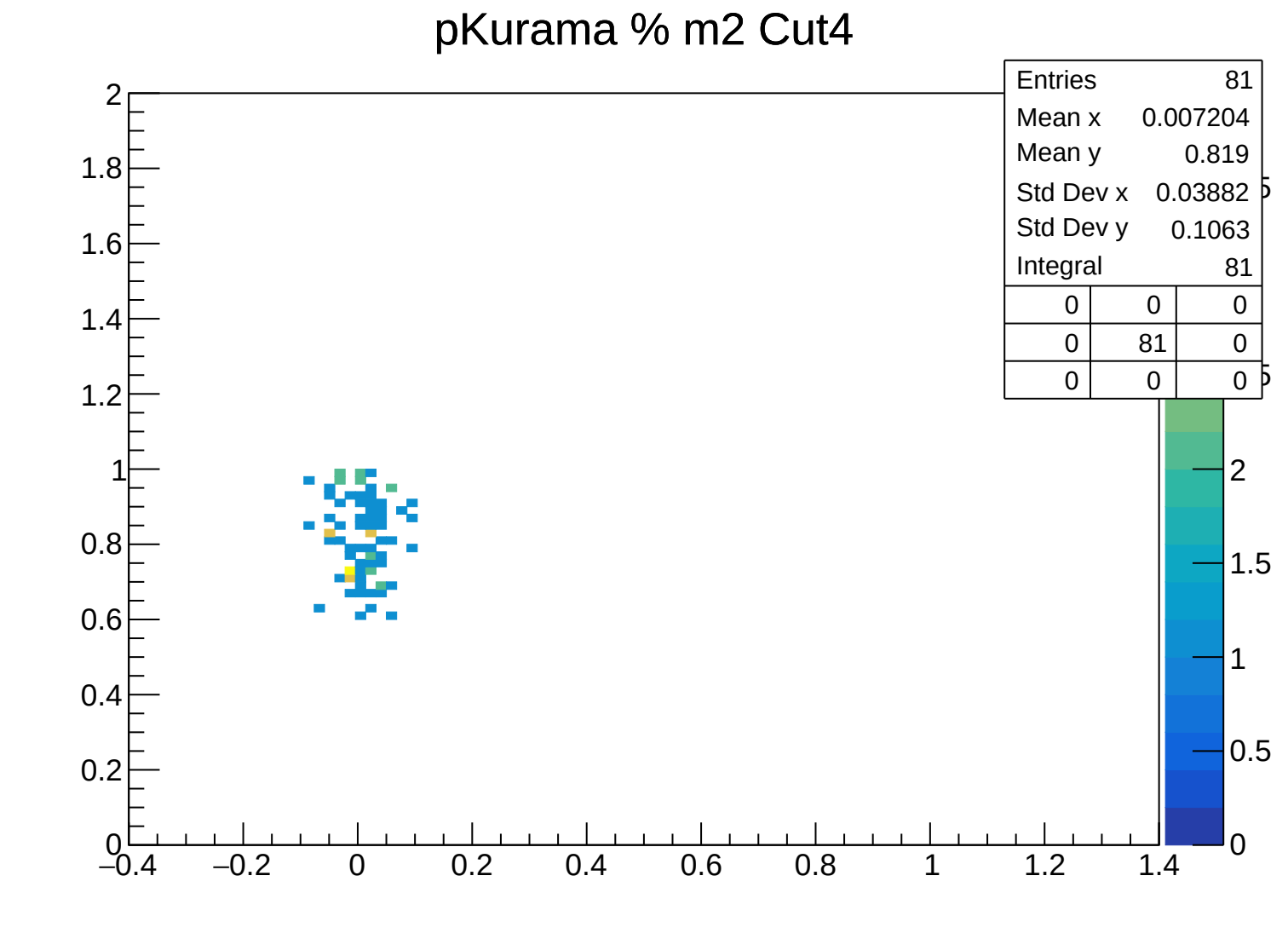

pKurama % m2 Cut1
Entries 11603
Mean x 0.7606
Mean y 0.886
Std Dev x 0.2362
Std Dev y 0.1822
Integral 9432
0 0 0
1496 9432 675
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
20
15
10
5
0

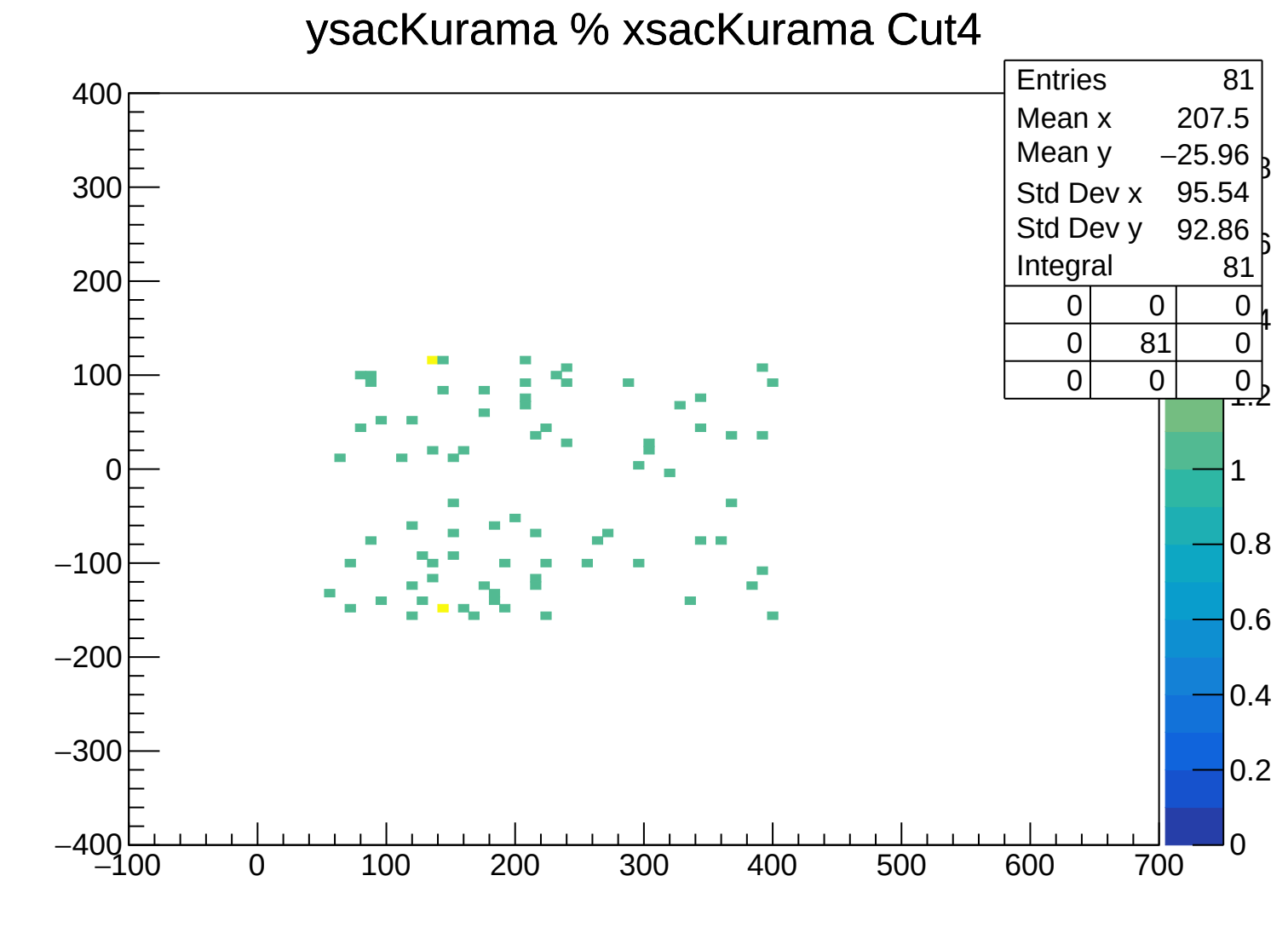

ysacKurama % xsacKurama
Entries 30267
Mean x 168.1
Mean y −17.98
Std Dev x 101.5
Std Dev y 82.16
Integral 3.027e+04
0 0 0
0 30267 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
40
30
20
10
0

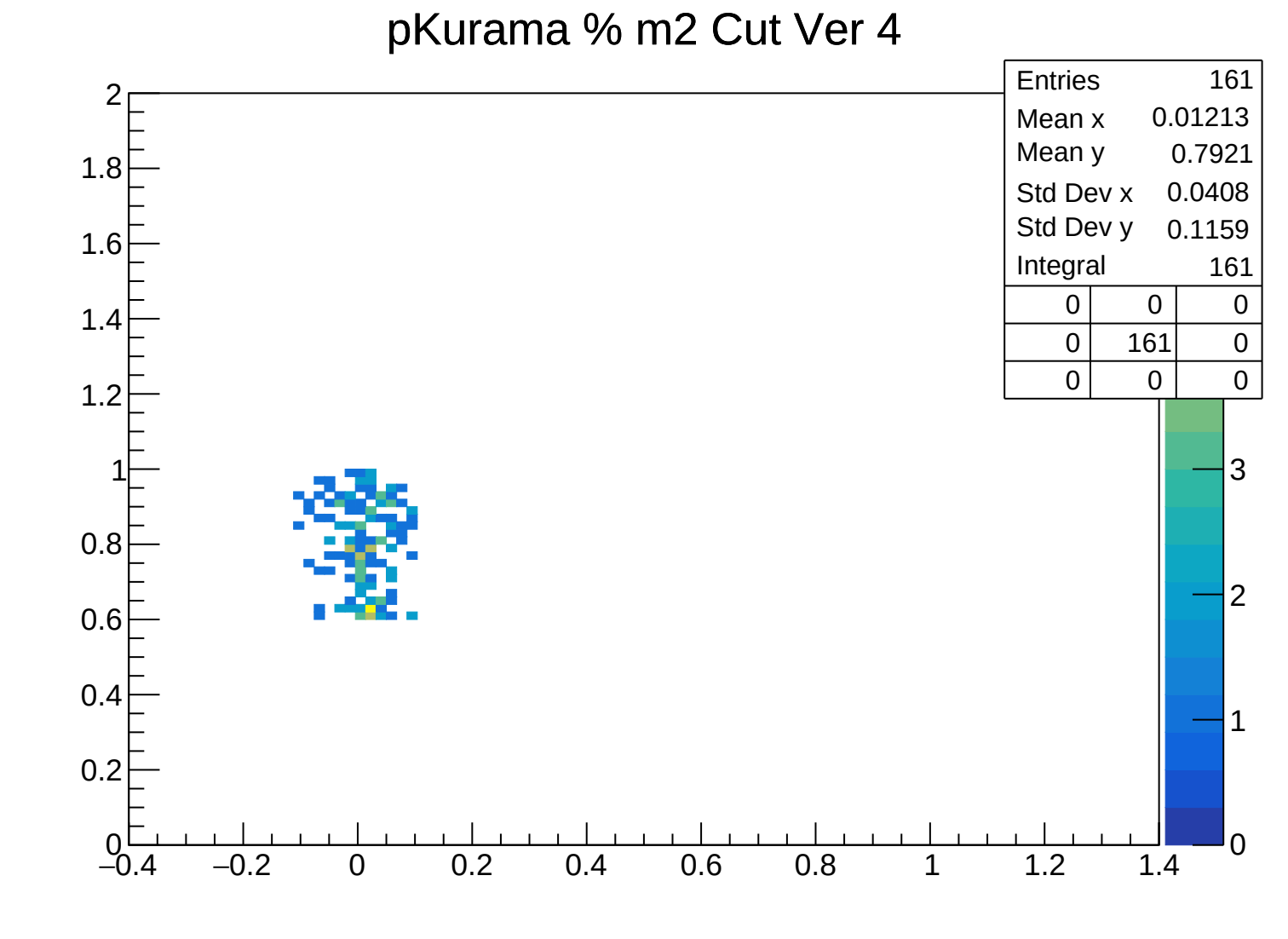

ysacKurama % xsacKurama Cut1
Entries 11603
Mean x 191.3
Mean y −18
Std Dev x 91.84
Std Dev y 90.22
Integral 1.16e+04
0 0 0
0 11603 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
12
10
8
6
4
2
0

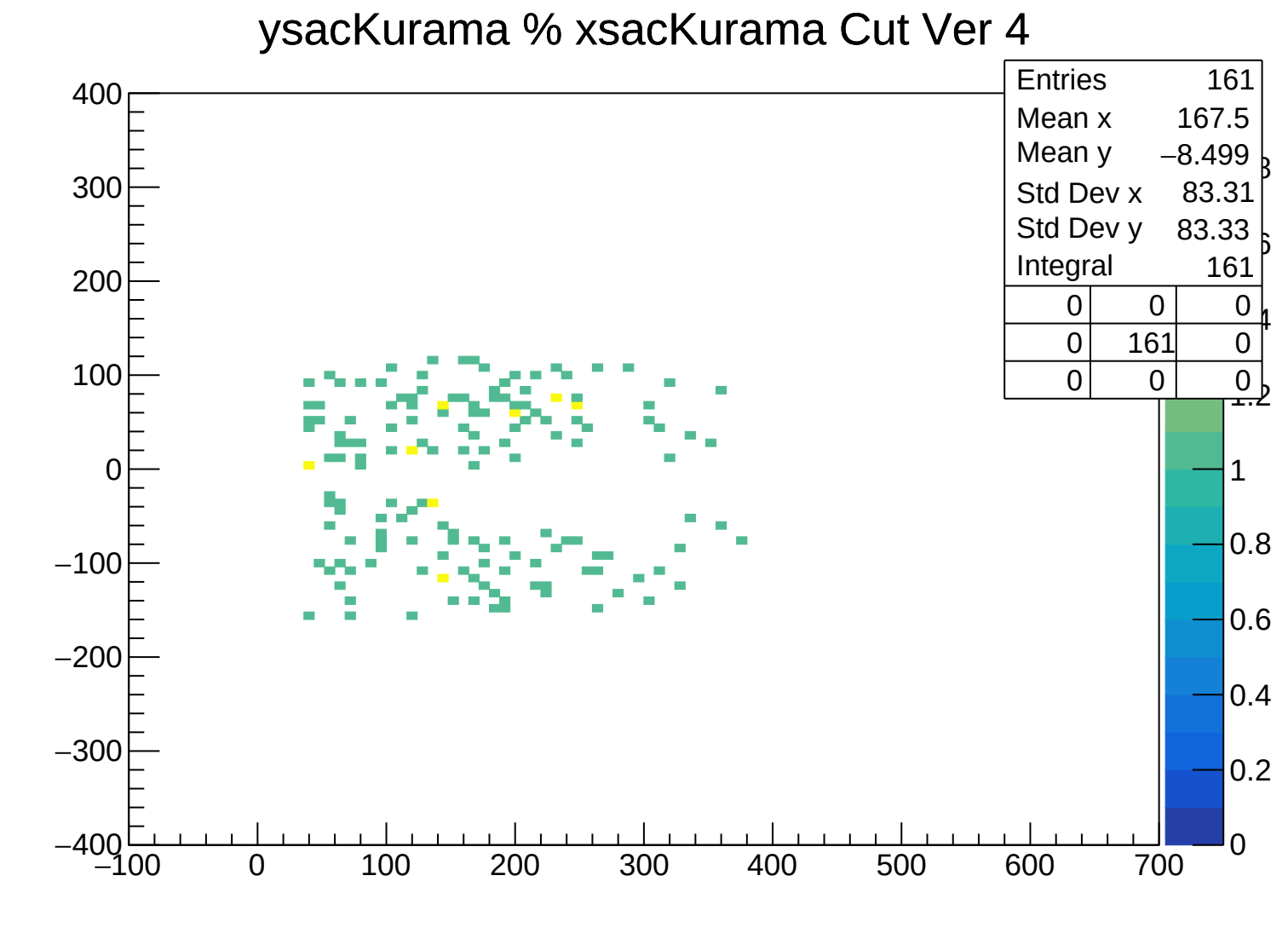

pKurama % m2 Cut3
Entries 242
Mean x 0.01048
Mean y 0.8011
Std Dev x 0.04021
Std Dev y 0.1135
Integral 242
0 0 0
0 242 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
4
3
2
1
0

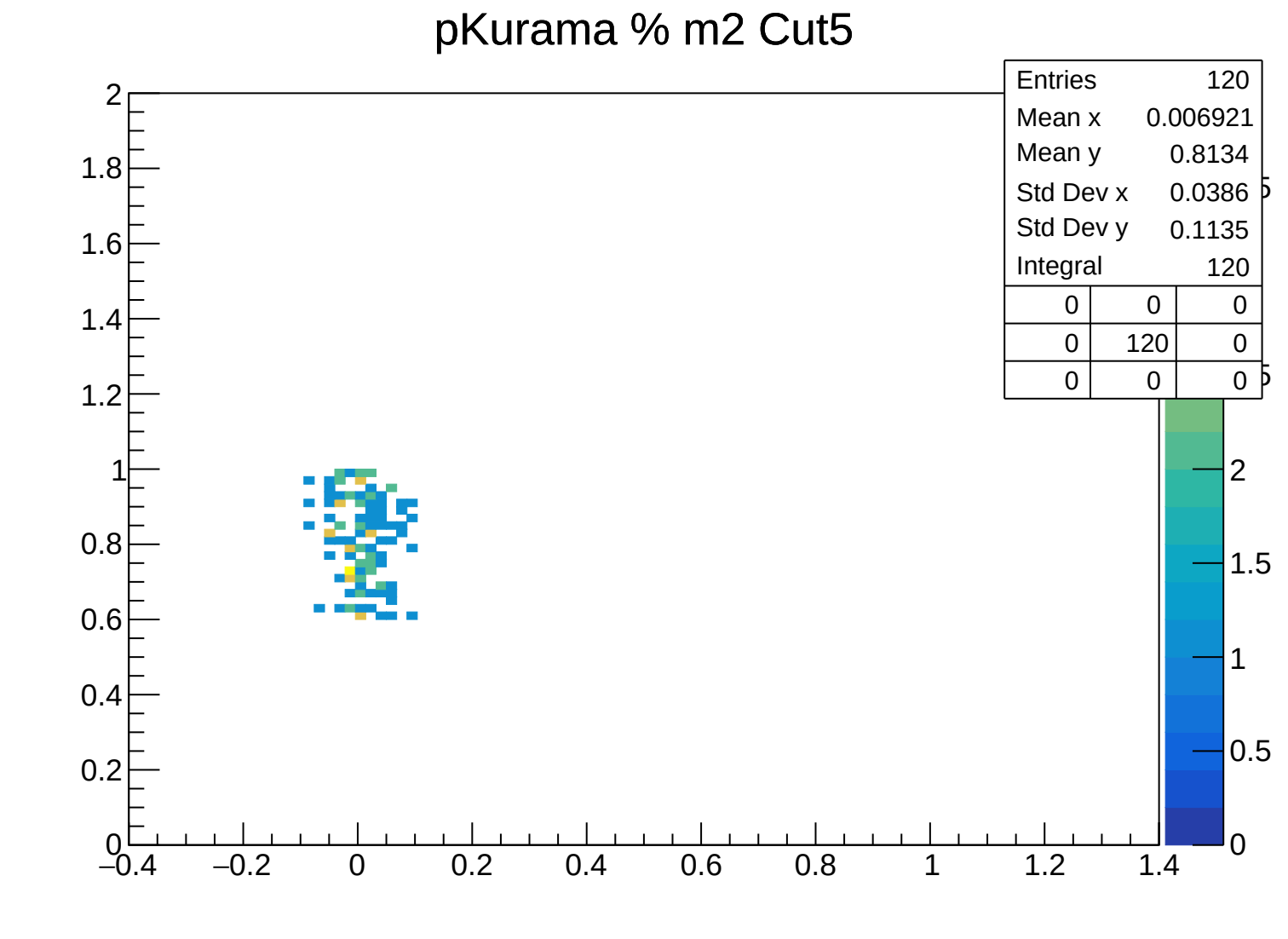

ysacKurama % xsacKurama Cut3
Entries 242
Mean x 180.9
Mean y −14.34
Std Dev x 89.6
Std Dev y 87.03
Integral 242
0 0 0
0 242 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
1.5
1
0.5
0

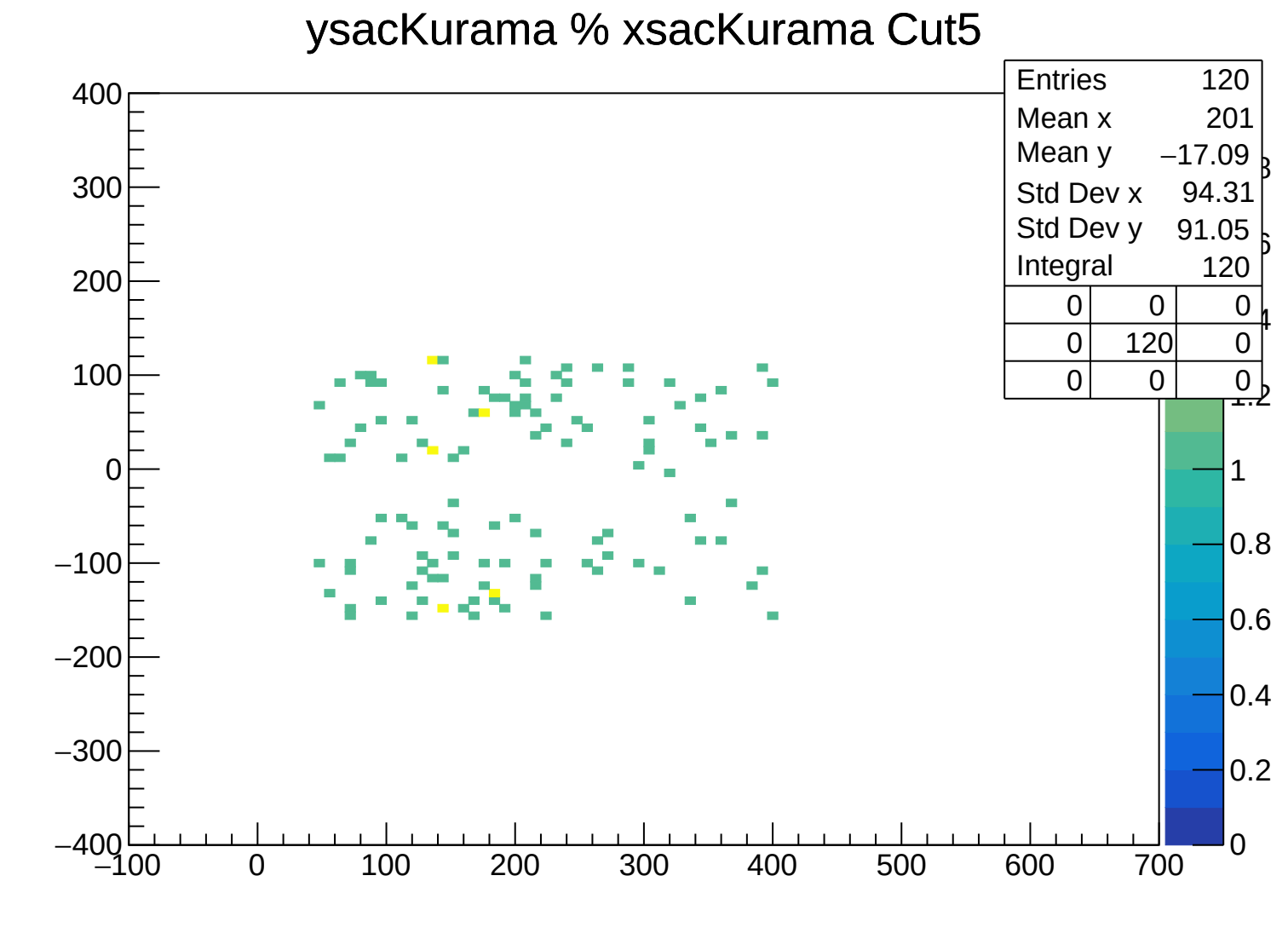

pKurama % m2 Cut4
Entries 81
Mean x 0.007204
Mean y 0.819
Std Dev x 0.03882
Std Dev y 0.1063
Integral 81
0 0 0
0 81 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
2
1.5
1
0.5
0

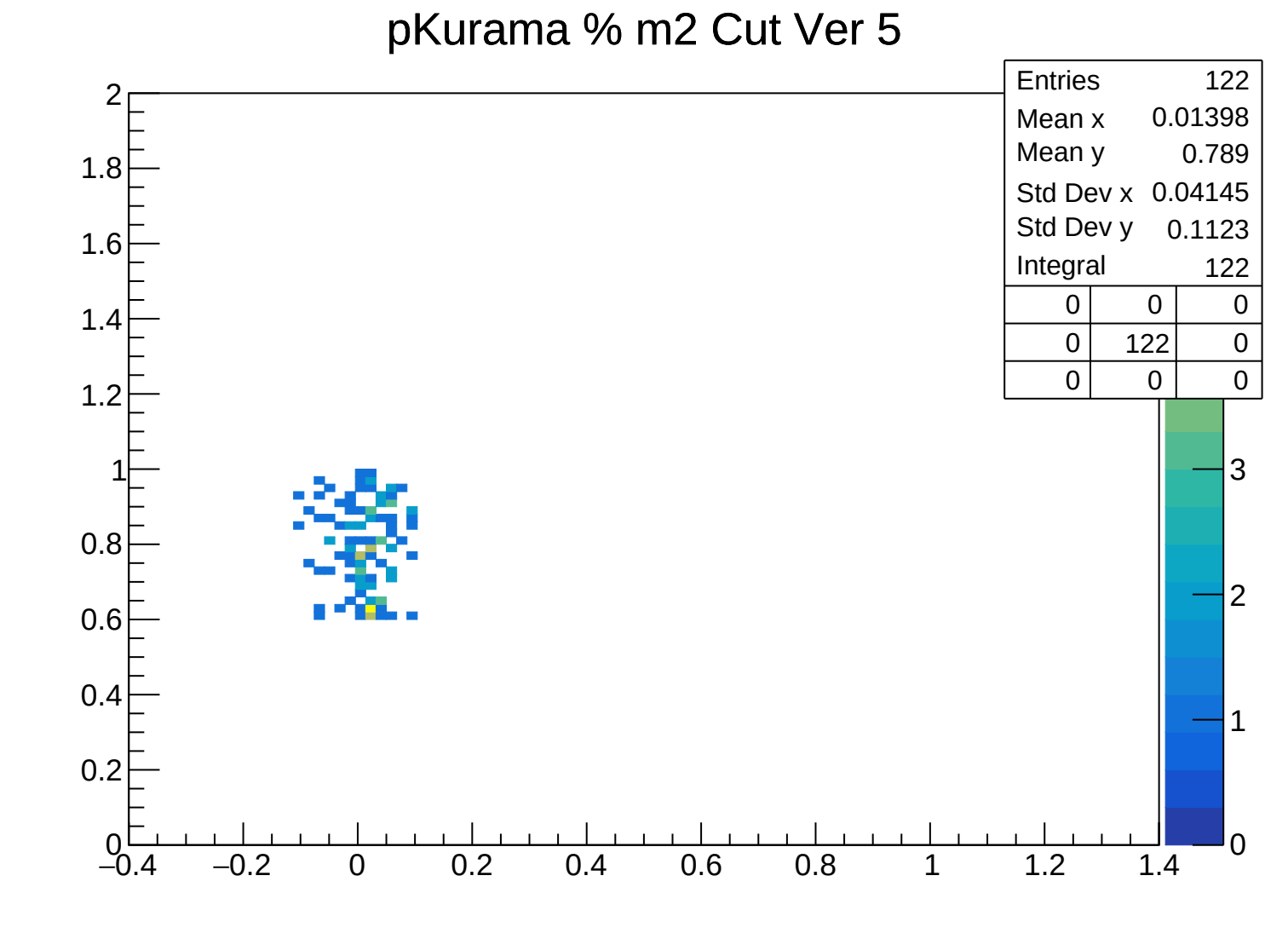

ysacKurama % xsacKurama Cut4
Entries 81
Mean x 207.5
Mean y −25.96
Std Dev x 95.54
Std Dev y 92.86
Integral 81
0 0 0
0 81 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
1
0.8
0.6
0.4
0.2
0

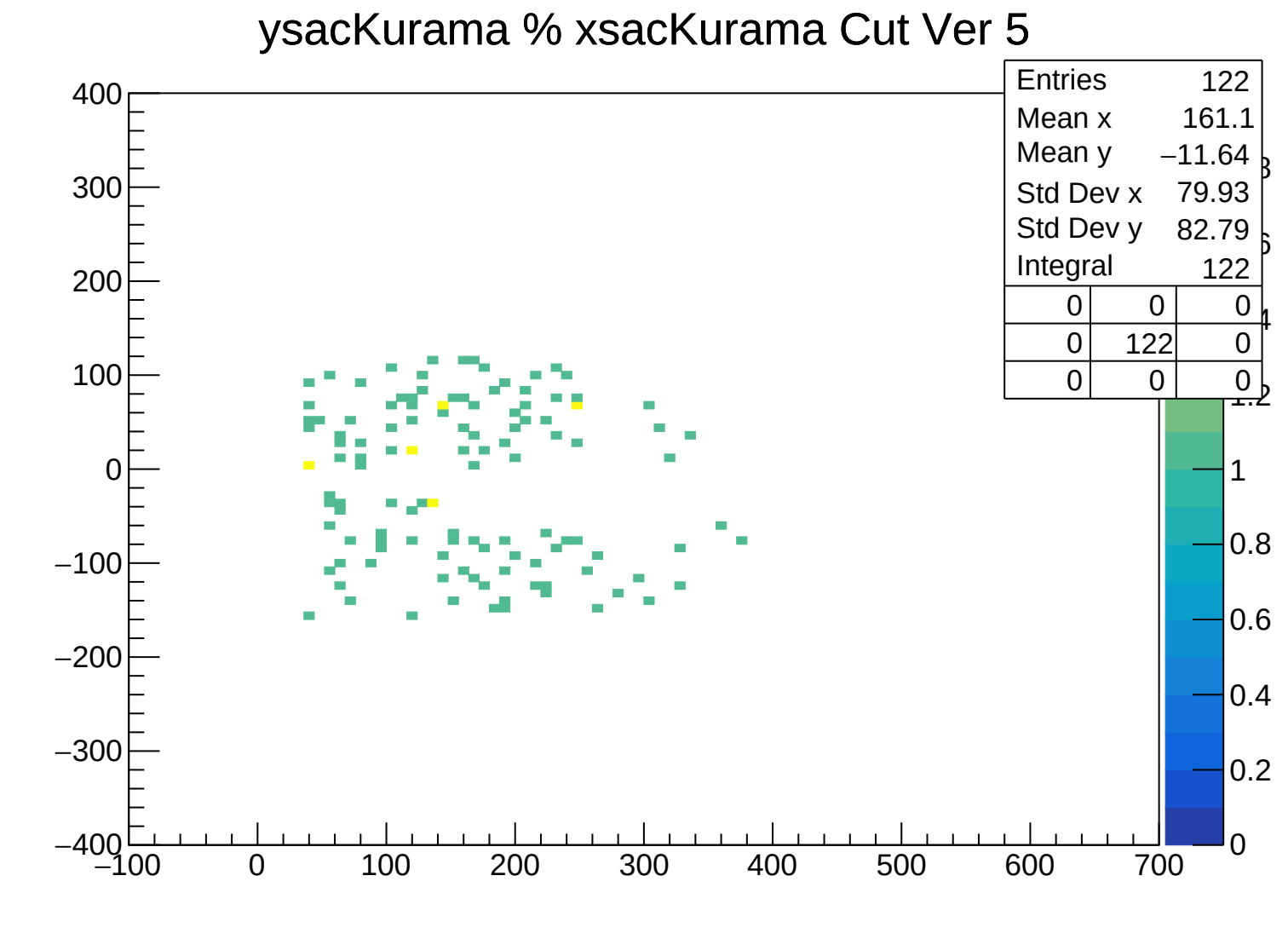

pKurama % m2 Cut Ver 4
Entries 161
Mean x 0.01213
Mean y 0.7921
Std Dev x 0.0408
Std Dev y 0.1159
Integral 161
0 0 0
0 161 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
3
2
1
0


ysacKurama % xsacKurama Cut Ver 4
Entries 161
Mean x 167.5
Mean y −8.499
Std Dev x 83.31
Std Dev y 83.33
Integral 161
0 0 0
0 161 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
1
0.8
0.6
0.4
0.2
0


pKurama % m2 Cut5
Entries 120
Mean x 0.006921
Mean y 0.8134
Std Dev x 0.0386
Std Dev y 0.1135
Integral 120
0 0 0
0 120 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
2
1.5
1
0.5
0


ysacKurama % xsacKurama Cut5
Entries 120
Mean x 201
Mean y −17.09
Std Dev x 94.31
Std Dev y 91.05
Integral 120
0 0 0
0 120 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
1
0.8
0.6
0.4
0.2
0


pKurama % m2 Cut Ver 5
Entries 122
Mean x 0.01398
Mean y 0.789
Std Dev x 0.04145
Std Dev y 0.1123
Integral 122
0 0 0
0 122 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
3
2
1
0


ysacKurama % xsacKurama Cut Ver 5
Entries 122
Mean x 161.1
Mean y −11.64
Std Dev x 79.93
Std Dev y 82.79
Integral 122
0 0 0
0 122 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
1
0.8
0.6
0.4
0.2
0