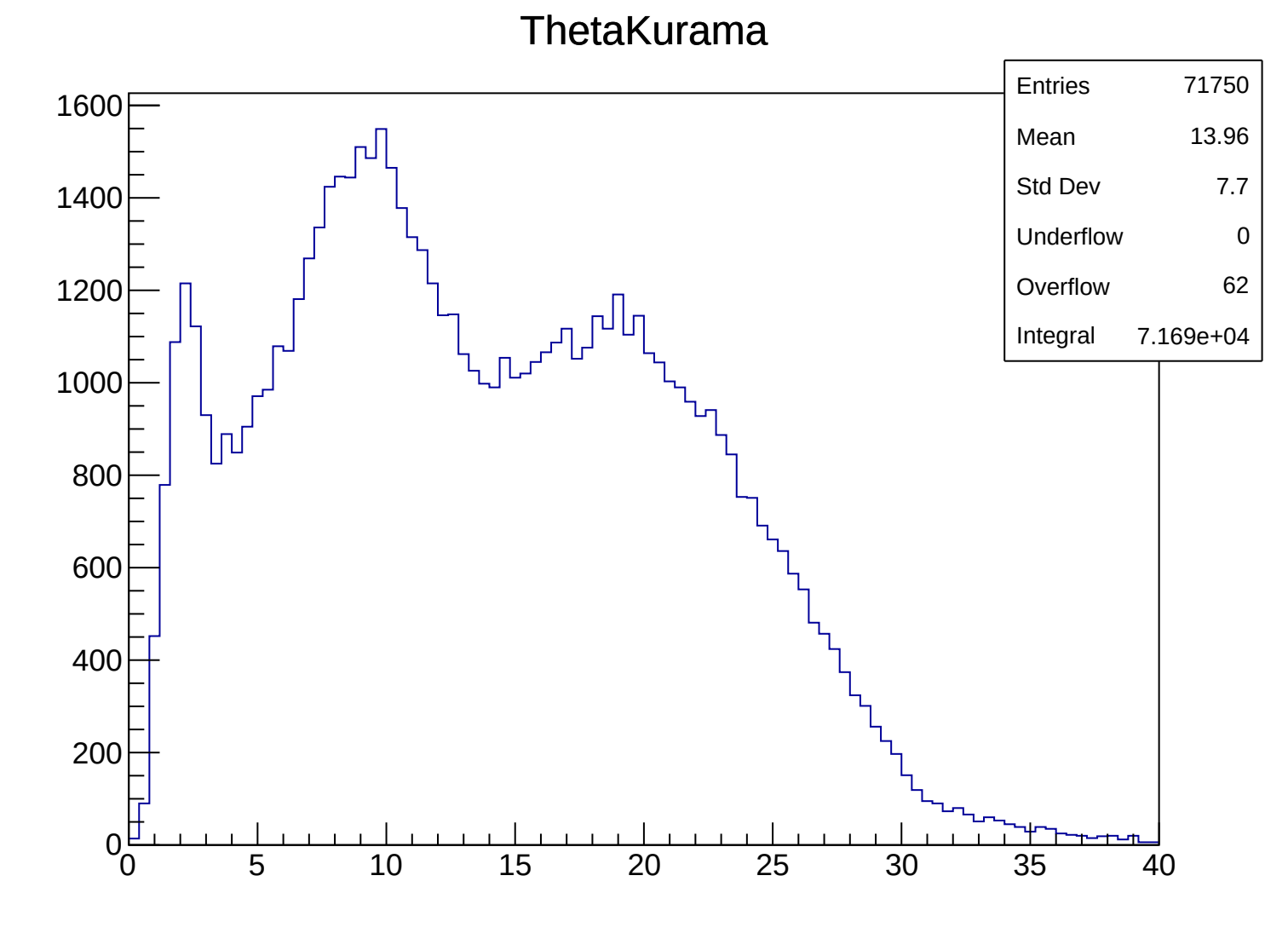
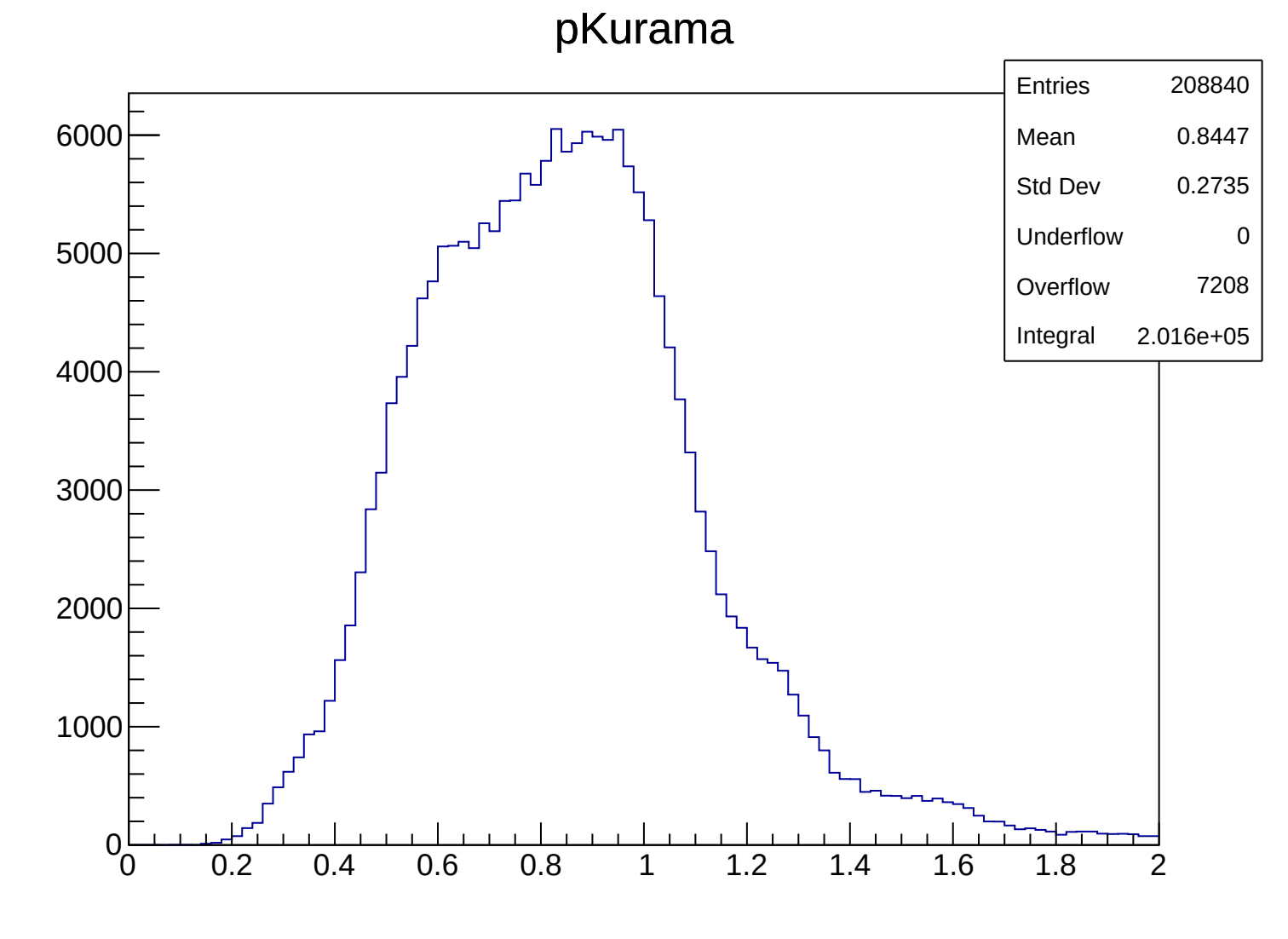
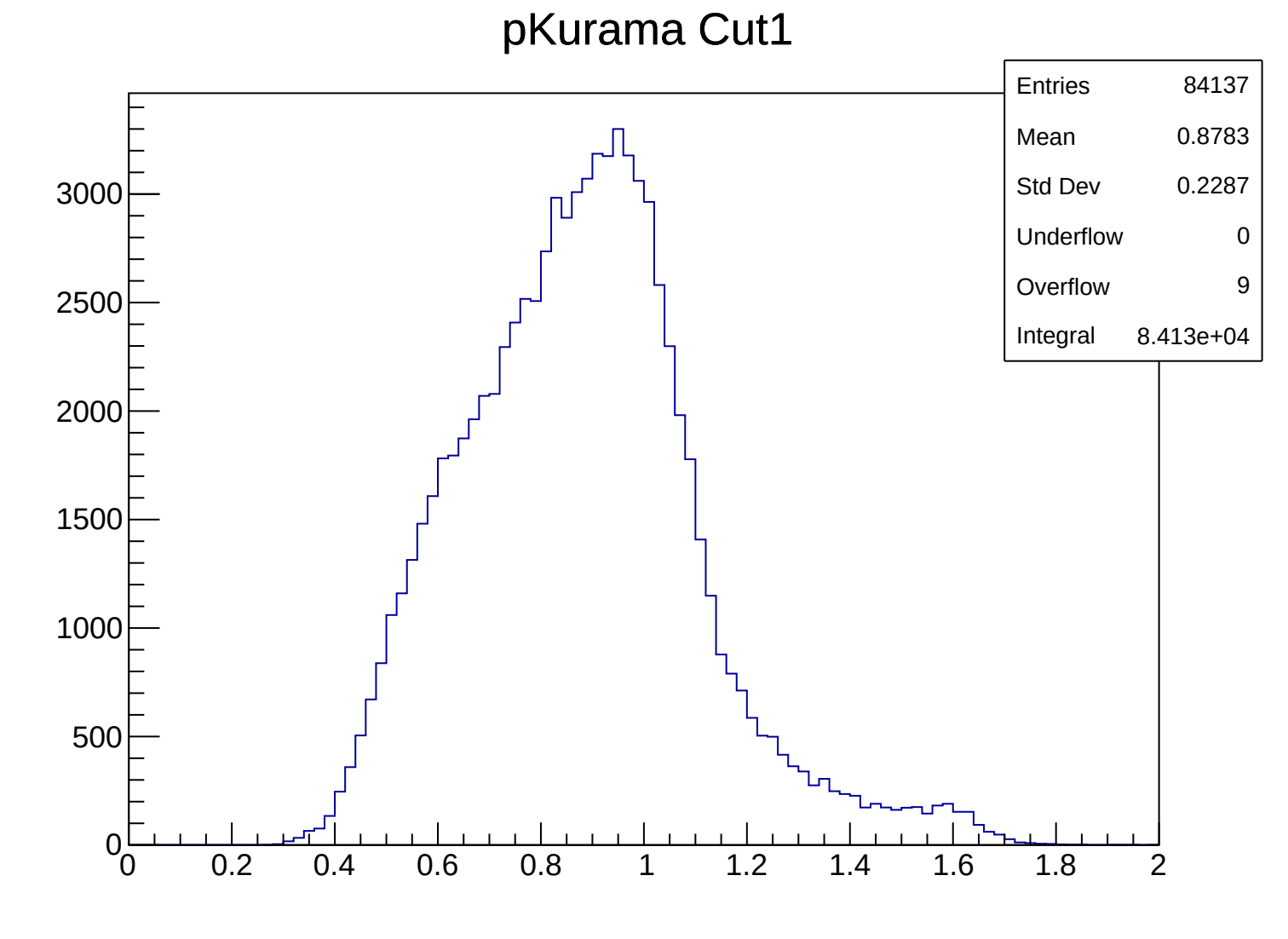
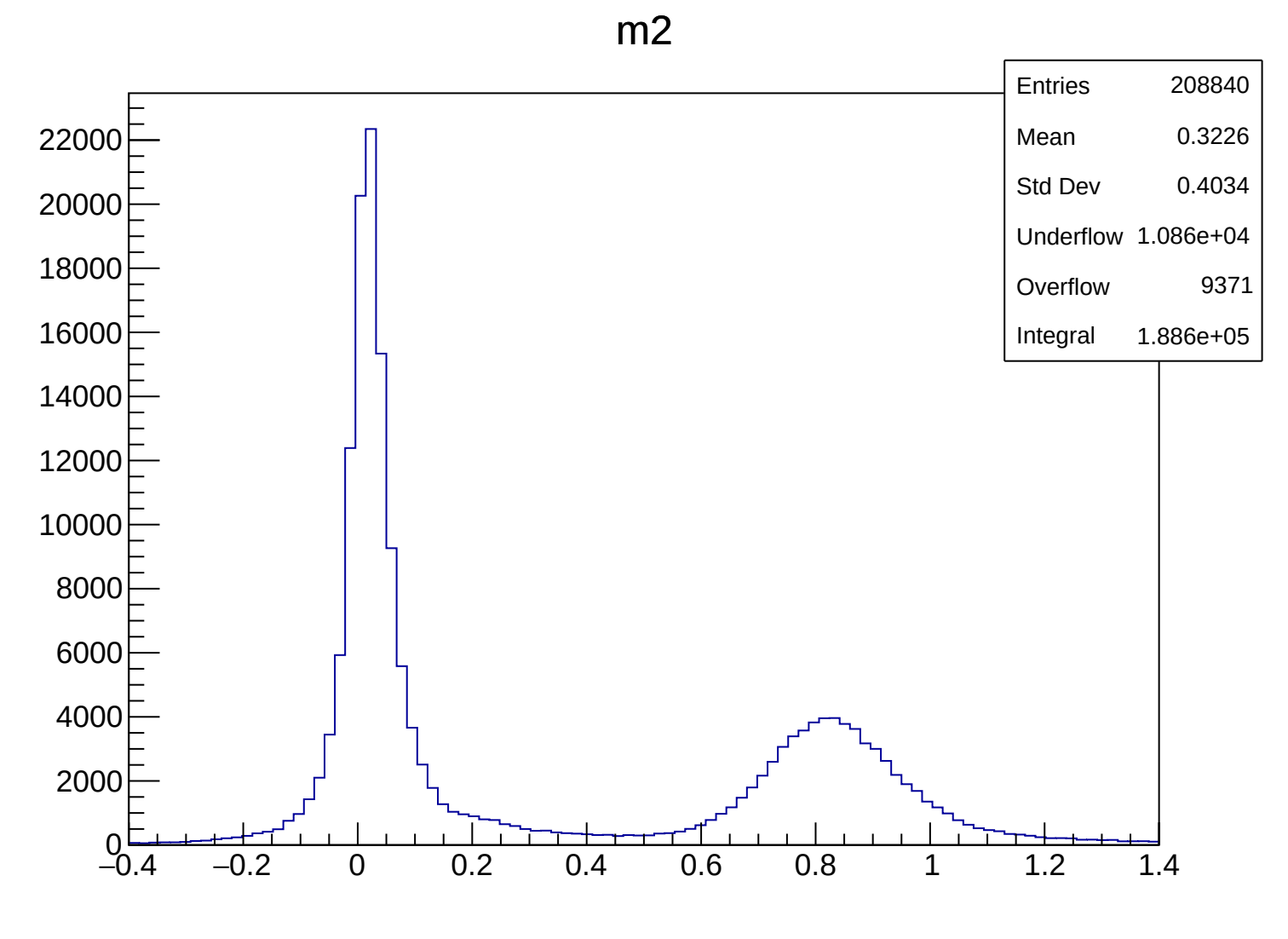
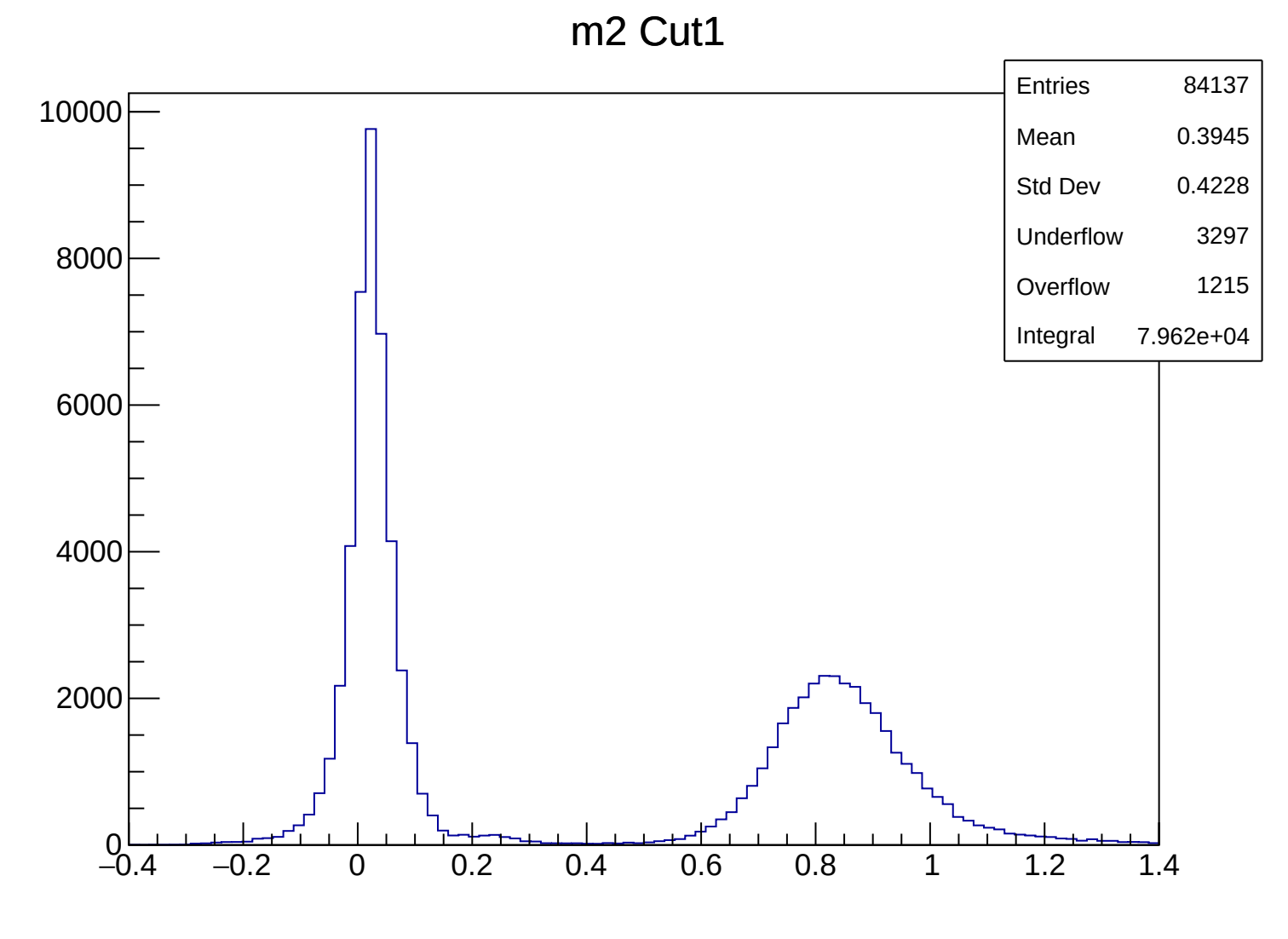
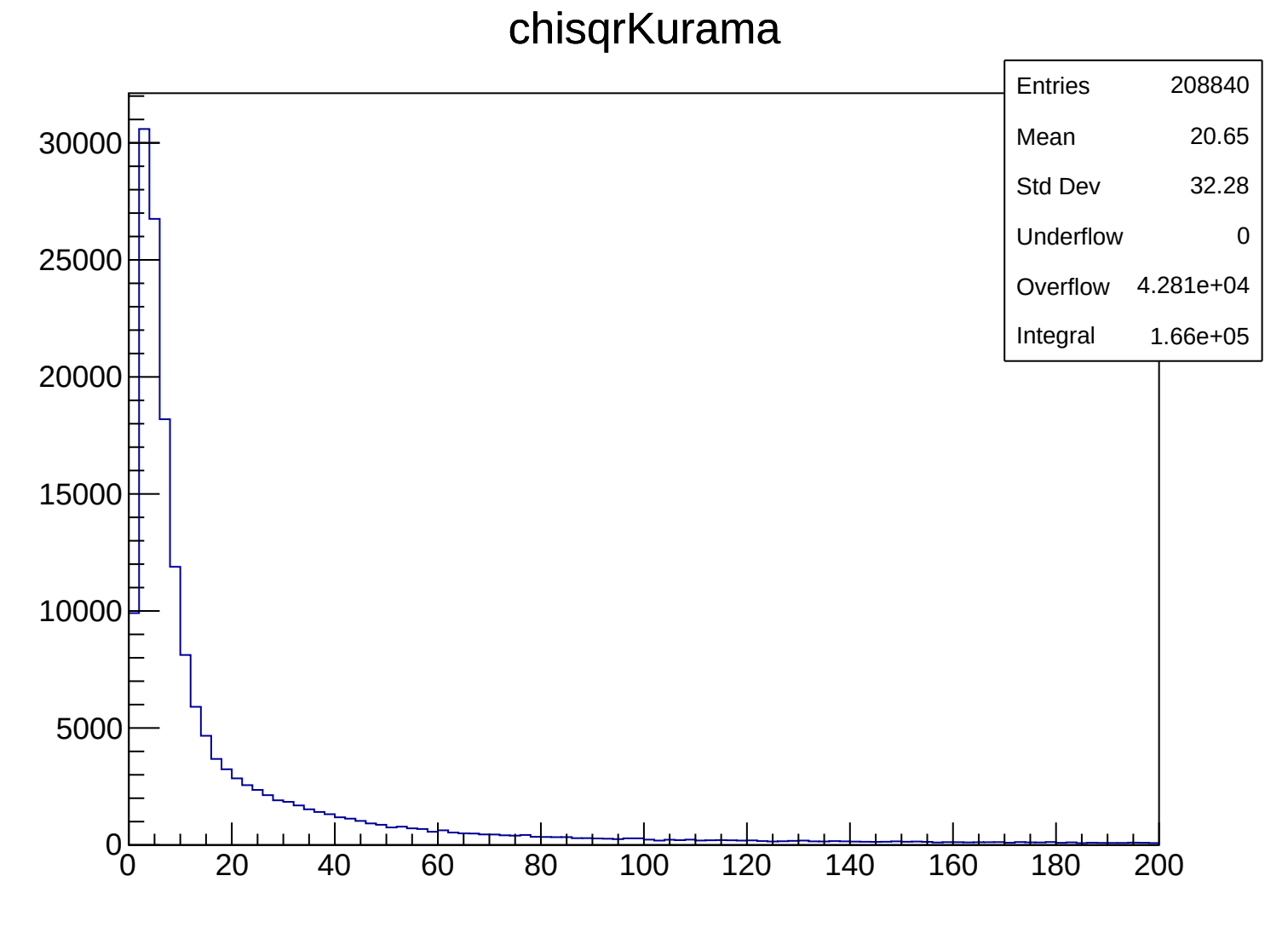

ThetaKurama
Entries 71750
Mean 13.96
Std Dev 7.7
Underflow 0
Overflow 62
Integral 7.169e+04
1600
1400
1200
1000
800
600
400
200
0
0
5
10
15
20
25
30
35
40

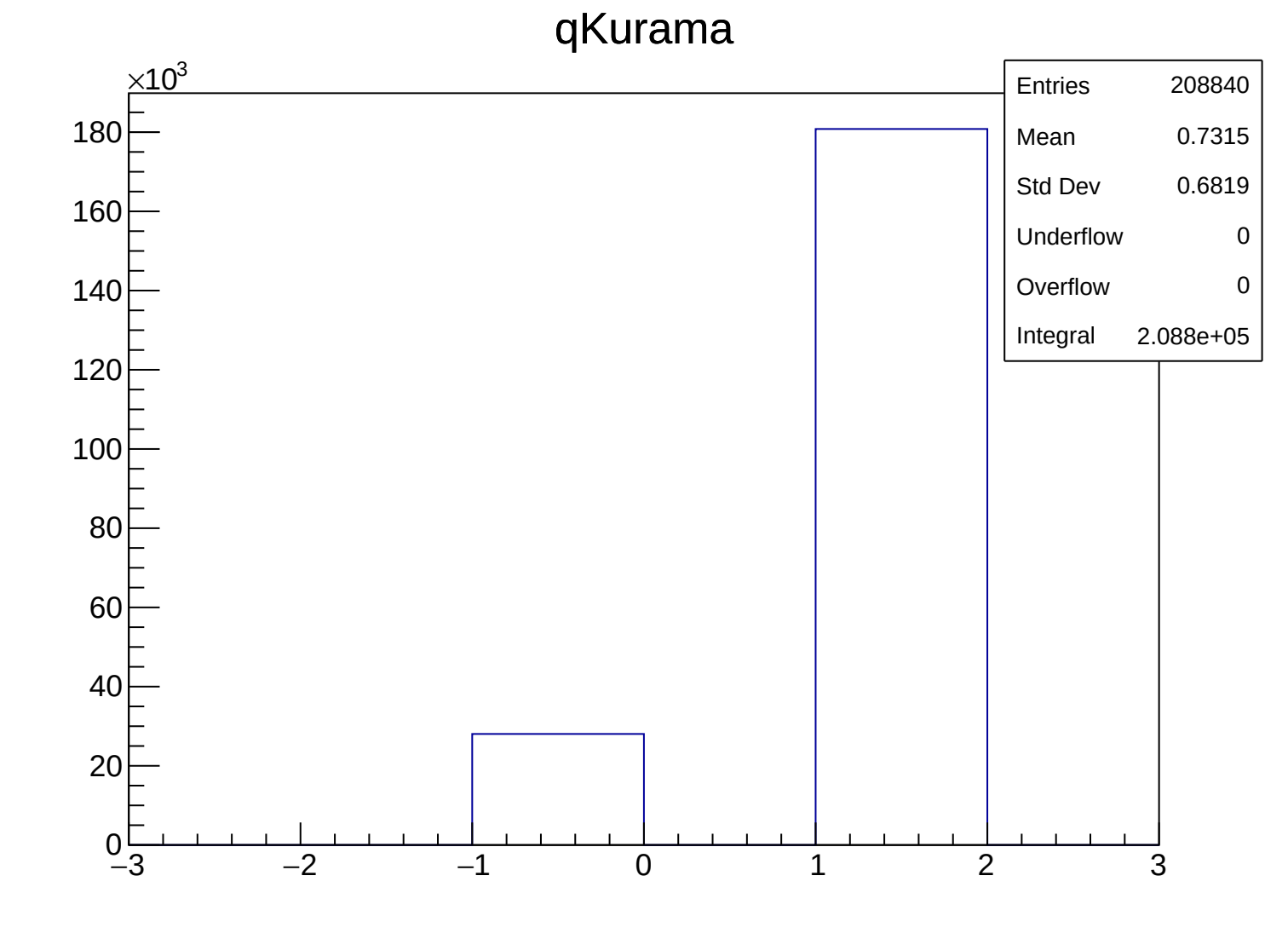

pKurama
Entries 208840
Mean 0.8447
Std Dev 0.2735
Underflow 0
Overflow 7208
Integral 2.016e+05
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

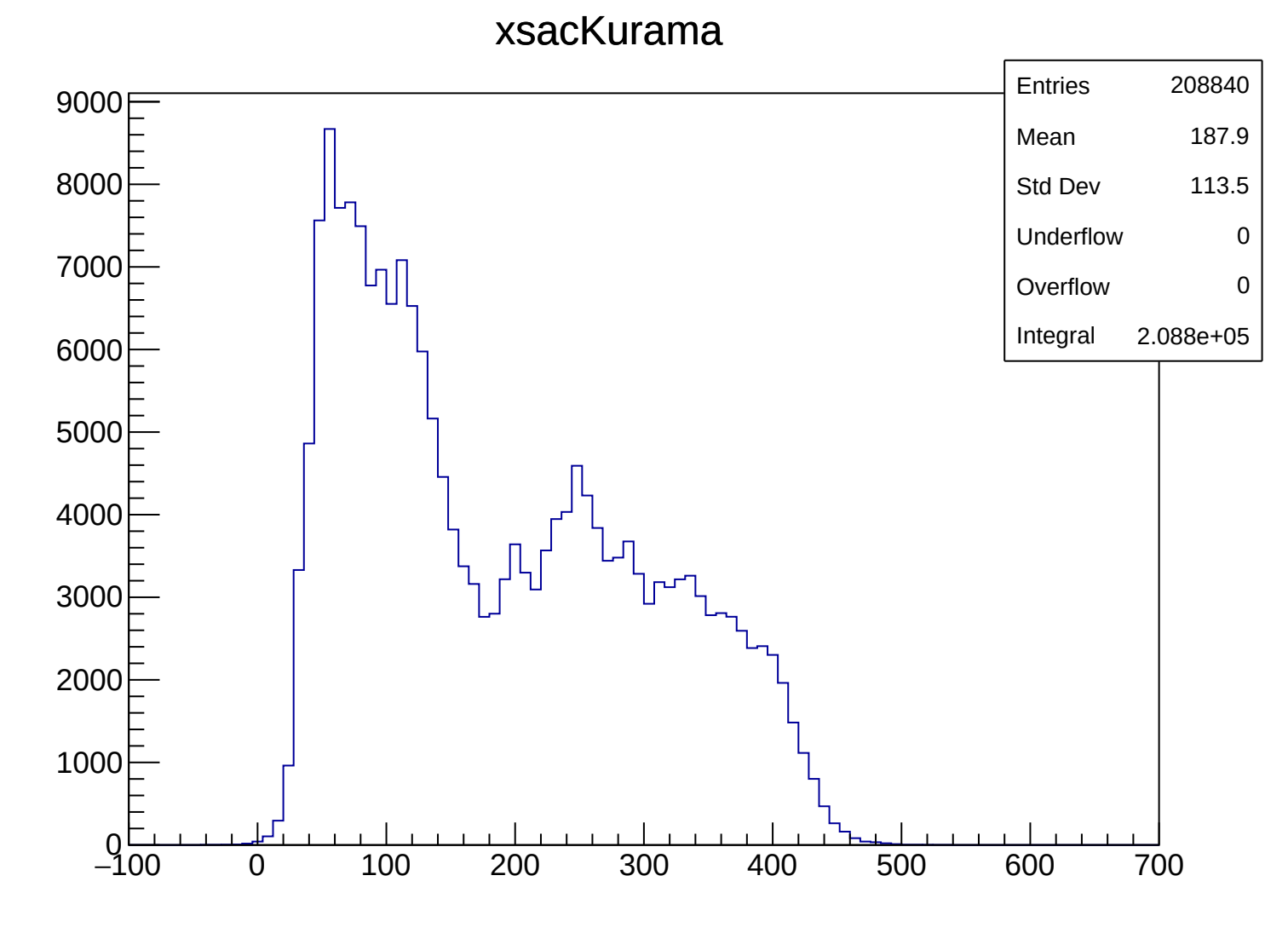

pKurama Cut1
Entries 84137
Mean 0.8783
Std Dev 0.2287
Underflow 0
Overflow 9
Integral 8.413e+04
3000
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

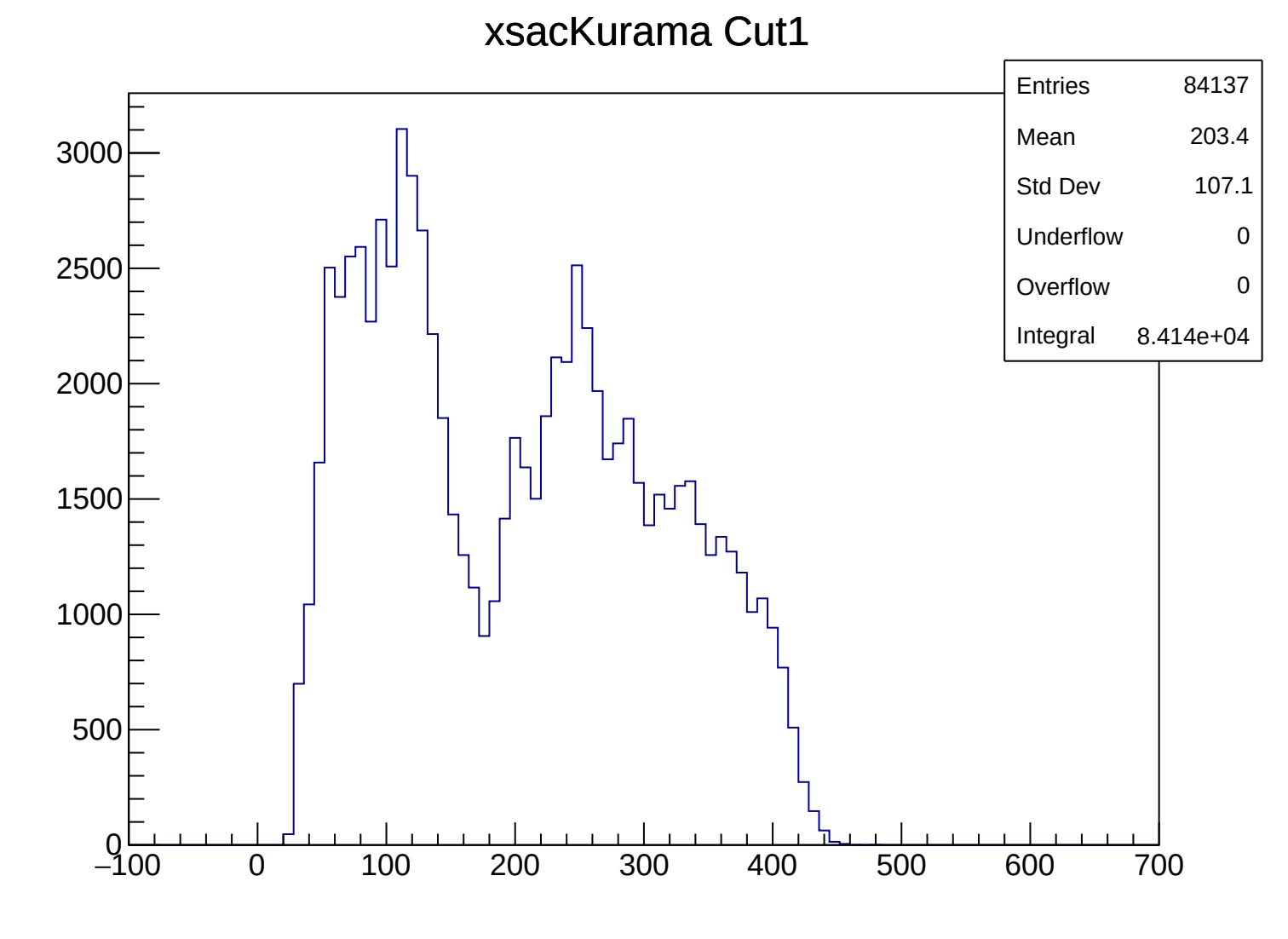

m2
Entries 208840
Mean 0.3226
Std Dev 0.4034
Underflow 1.086e+04
Overflow 9371
Integral 1.886e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

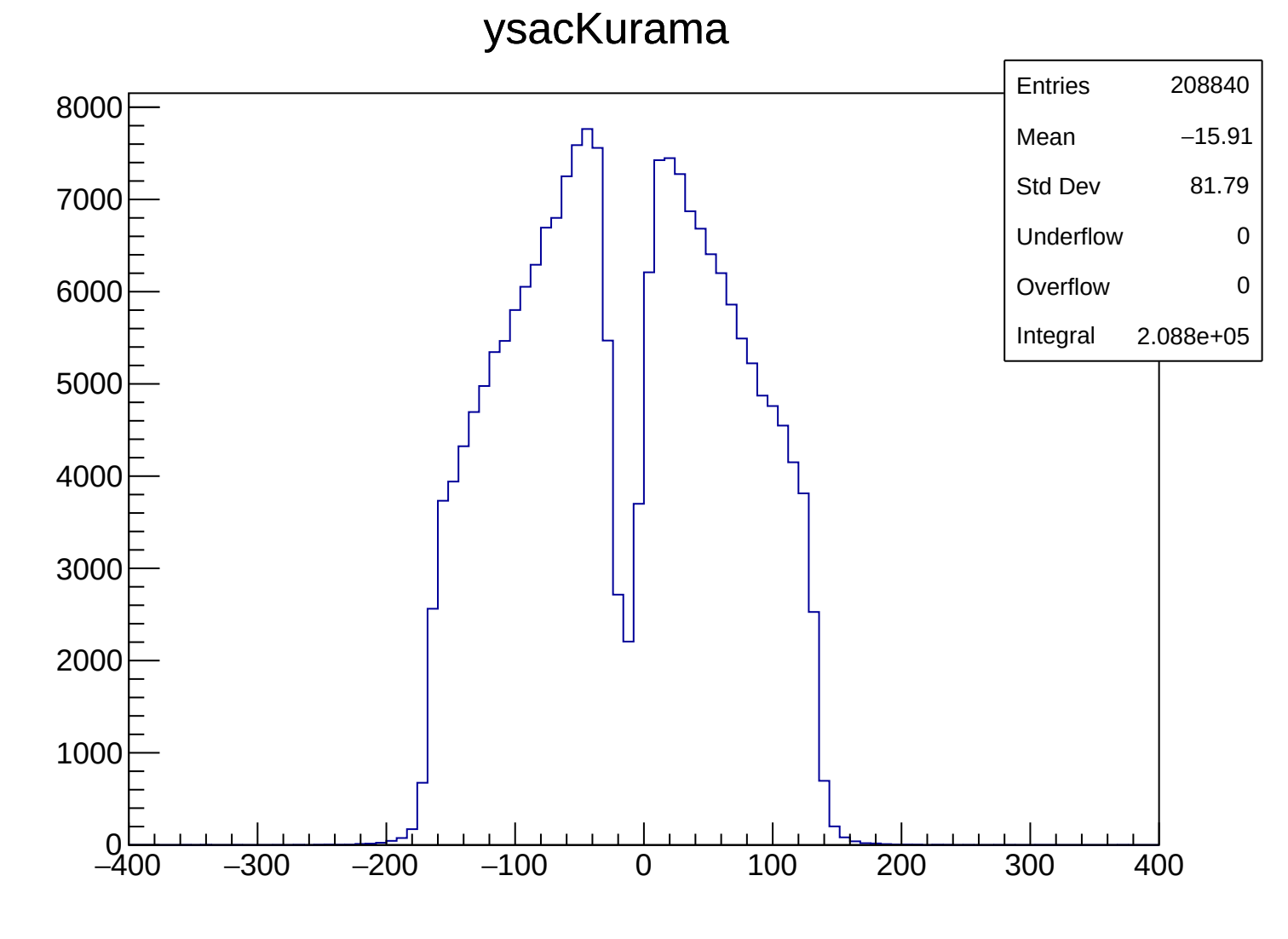

m2 Cut1
Entries 84137
Mean 0.3945
Std Dev 0.4228
Underflow 3297
Overflow 1215
Integral 7.962e+04
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

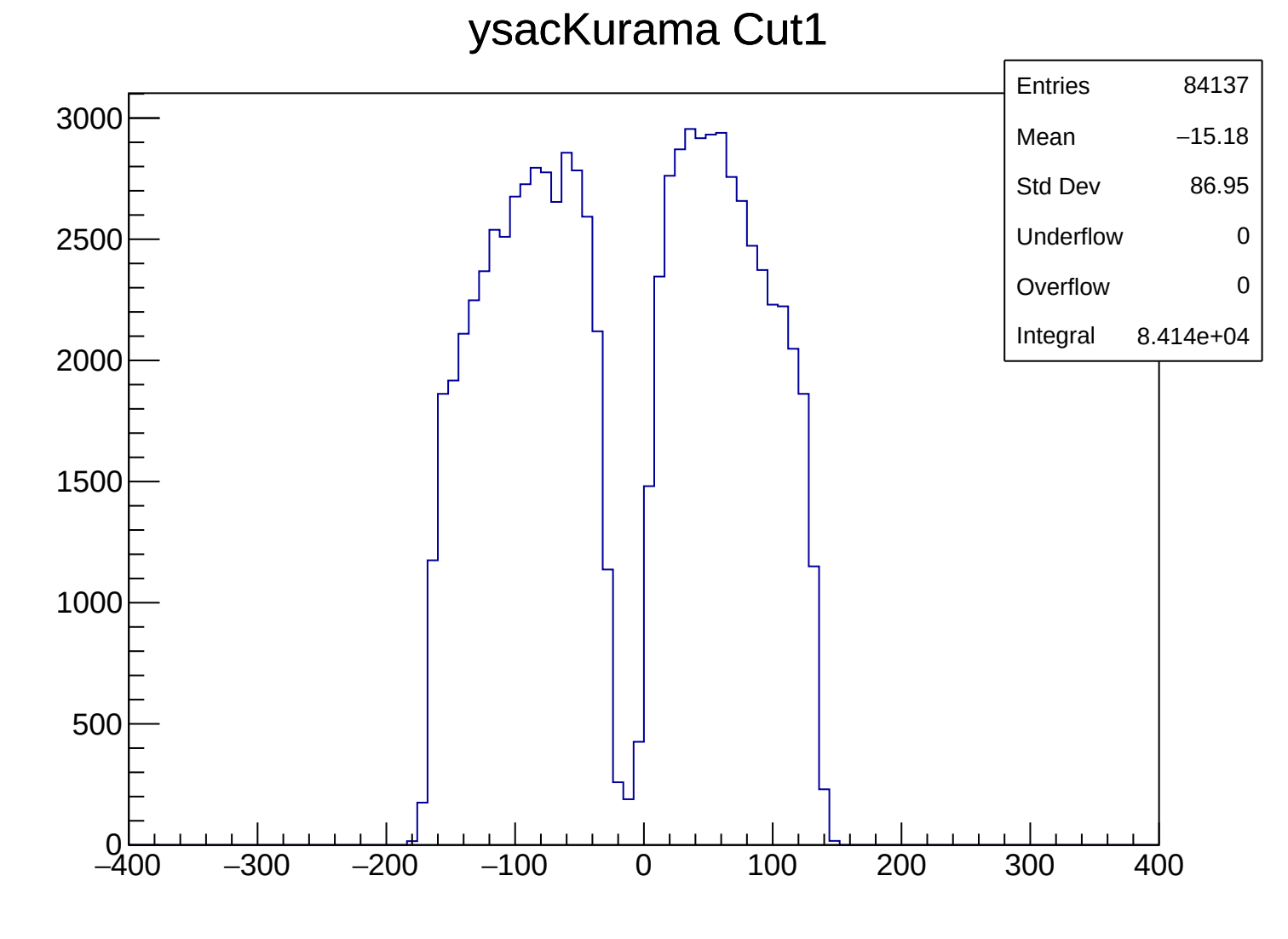

chisqrKurama
Entries 208840
Mean 20.65
Std Dev 32.28
Underflow 0
Overflow 4.281e+04
Integral 1.66e+05
30000
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

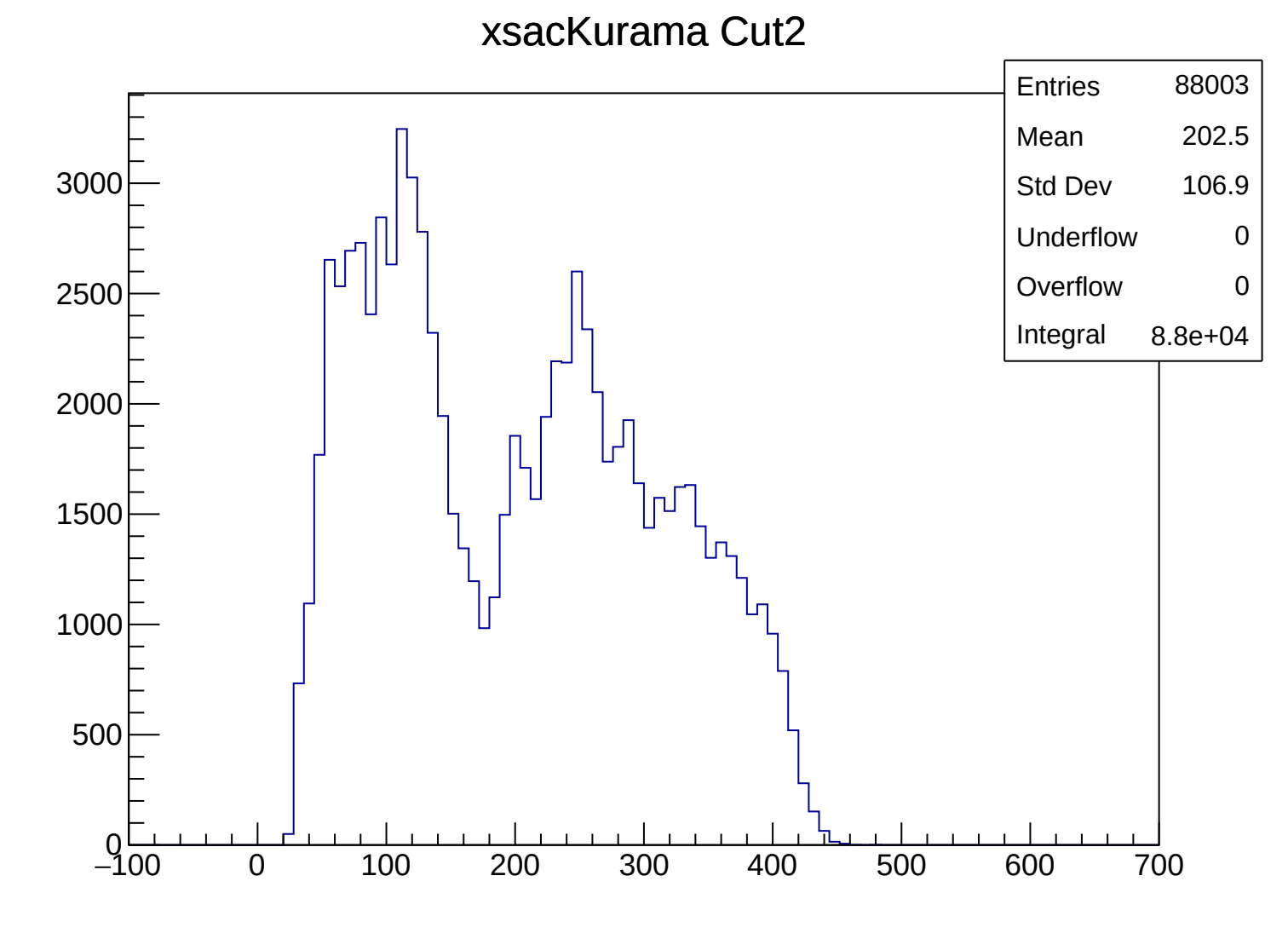

qKurama
×10^3
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 208840
Mean 0.7315
Std Dev 0.6819
Underflow 0
Overflow 0
Integral 2.088e+05

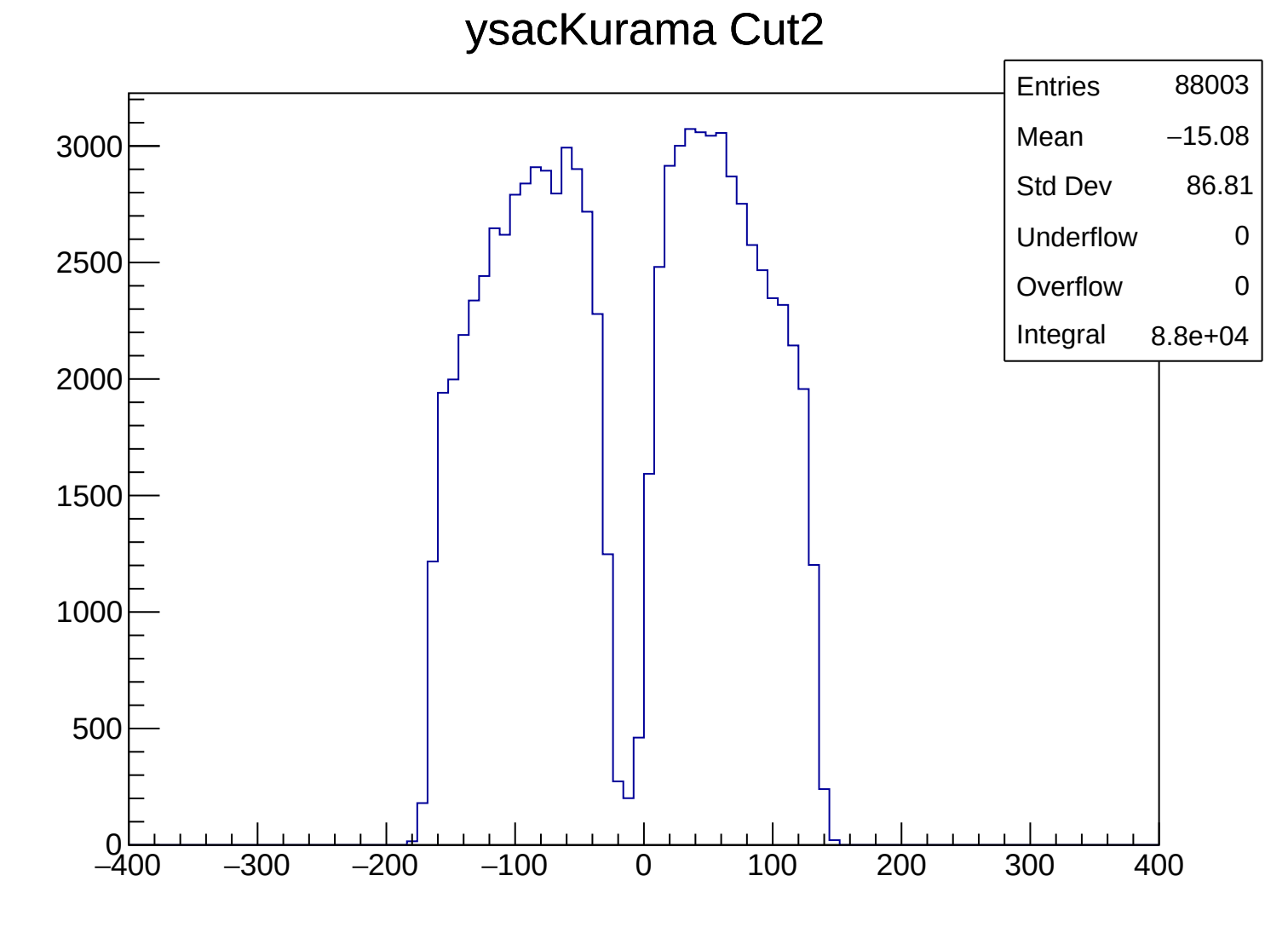

xsacKurama
Entries 208840
Mean 187.9
Std Dev 113.5
Underflow 0
Overflow 0
Integral 2.088e+05
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
–100
0
100
200
300
400
500
600
700

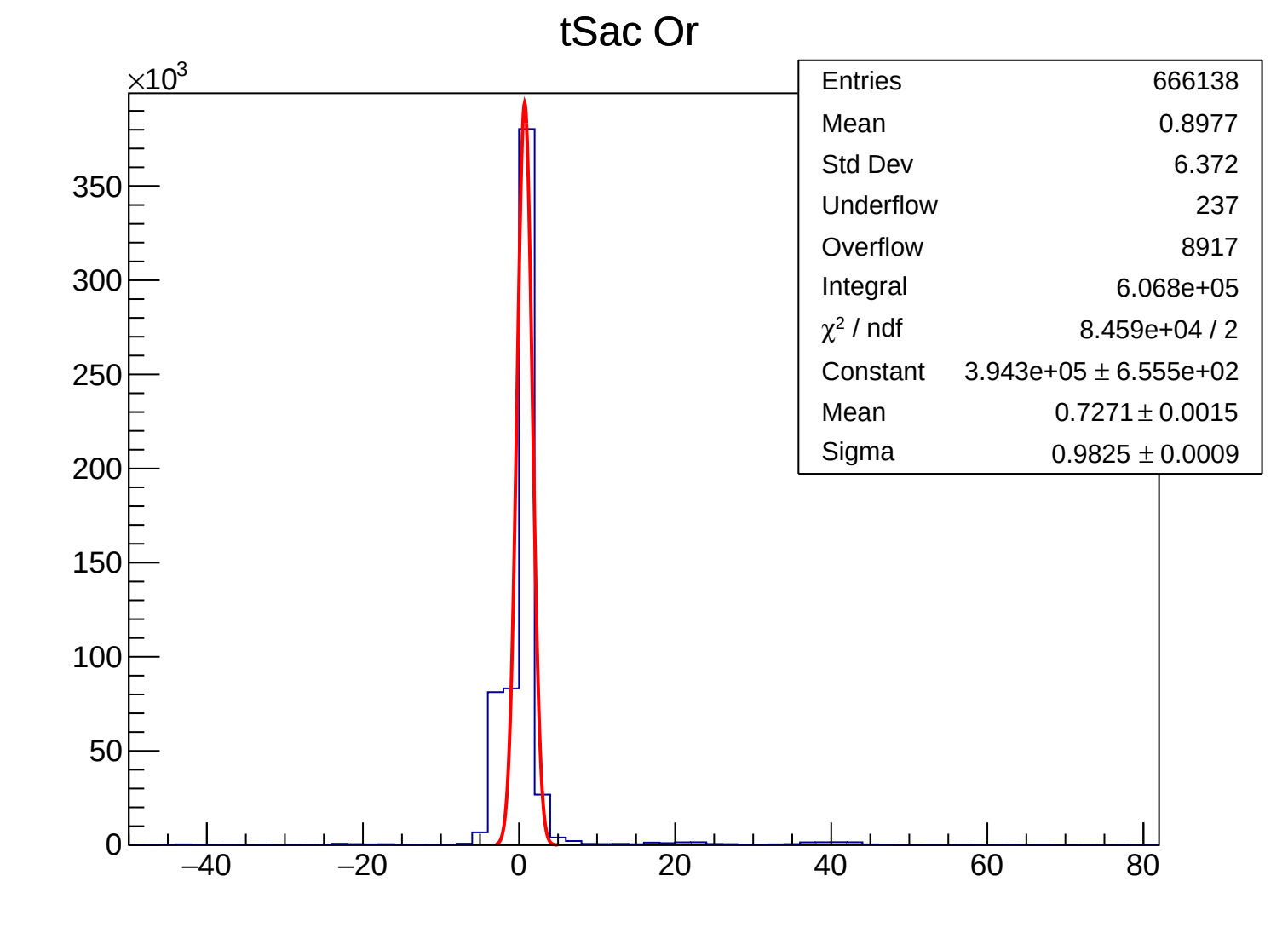

xsacKurama Cut1
Entries 84137
Mean 203.4
Std Dev 107.1
Underflow 0
Overflow 0
Integral 8.414e+04
3000
2500
2000
1500
1000
500
0
–100
0
100
200
300
400
500
600
700

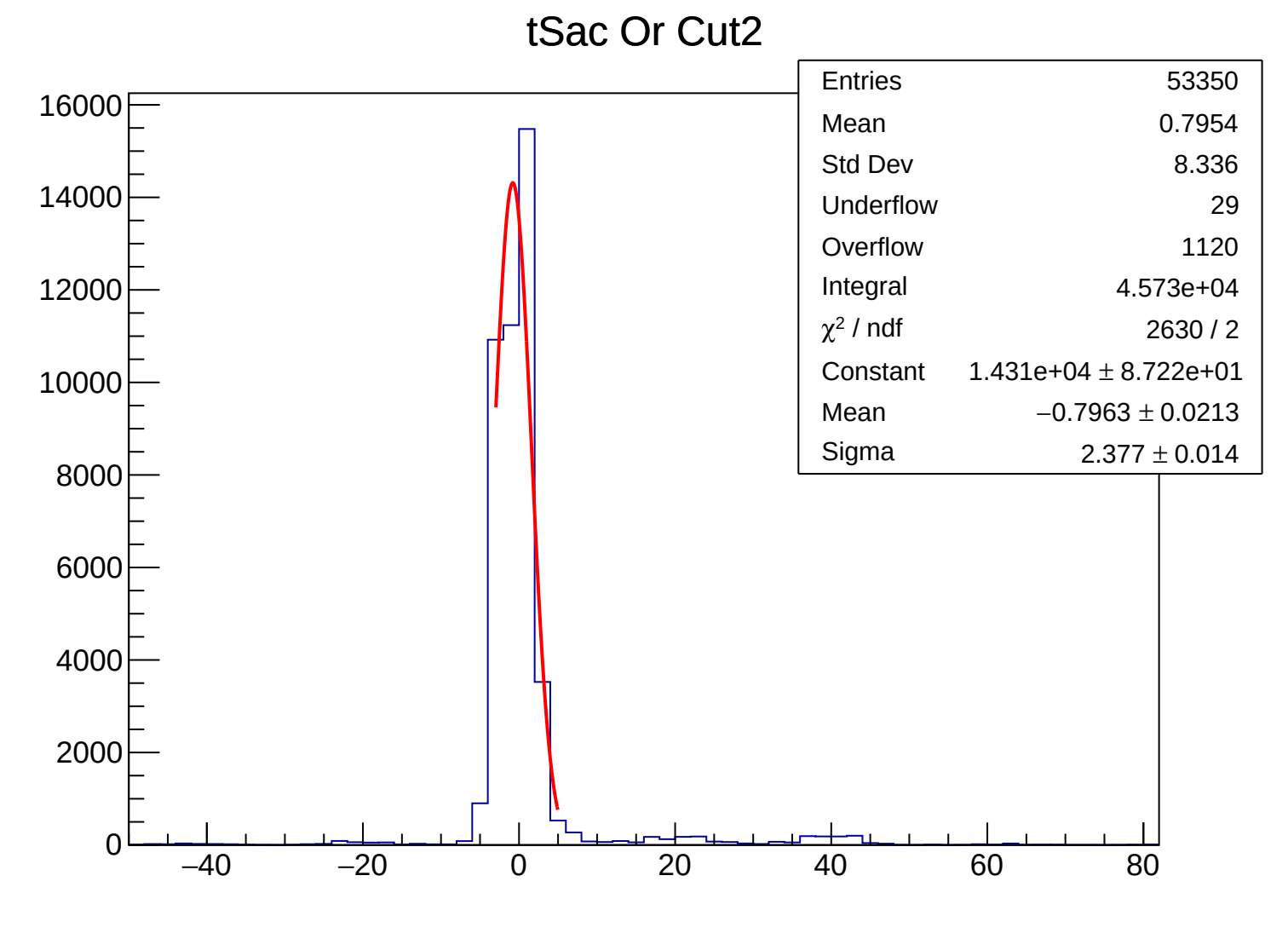

ysacKurama
Entries 208840
Mean −15.91
Std Dev 81.79
Underflow 0
Overflow 0
Integral 2.088e+05
8000
7000
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

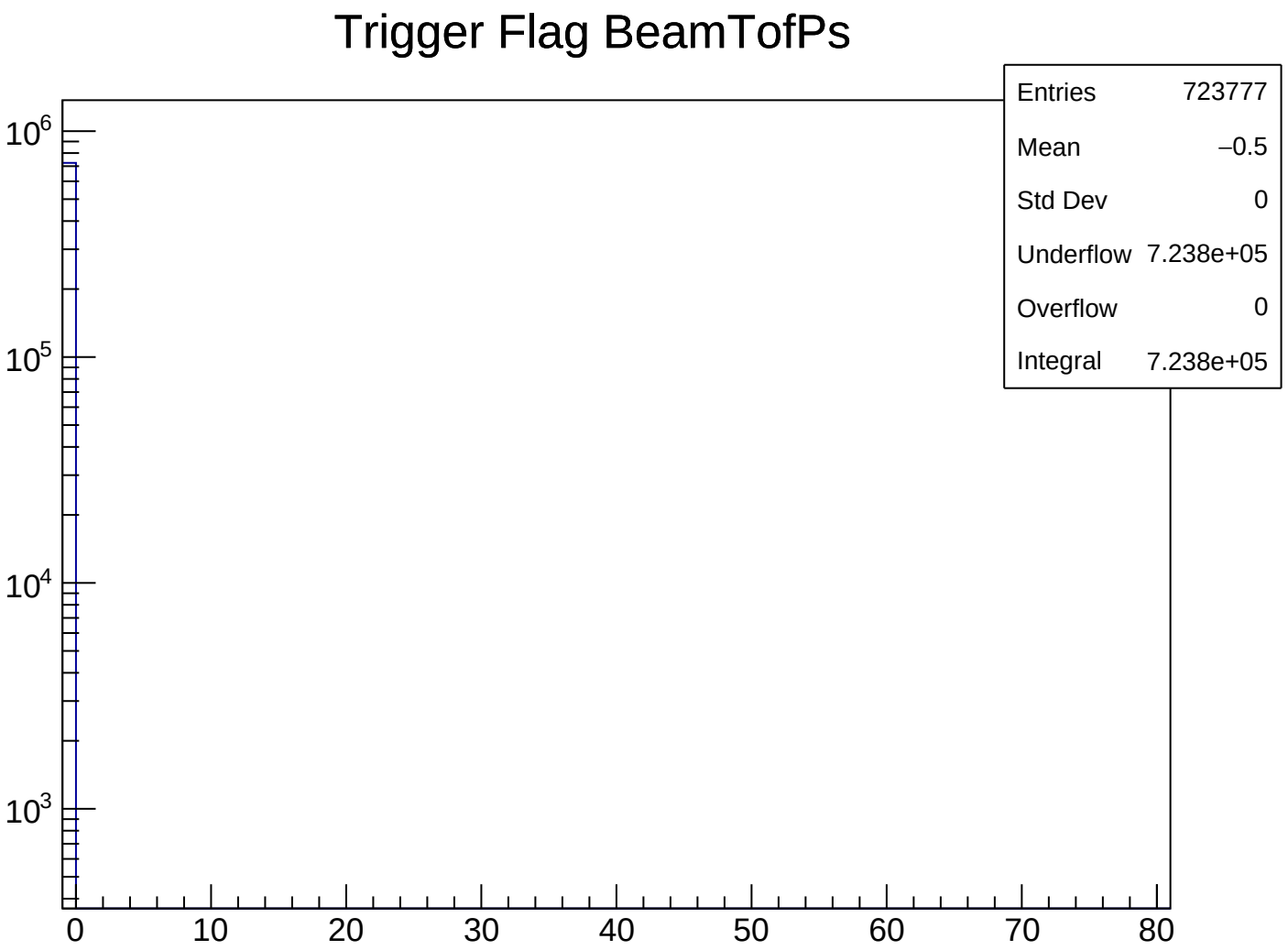

ysacKurama Cut1
Entries 84137
Mean −15.18
Std Dev 86.95
Underflow 0
Overflow 0
Integral 8.414e+04
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

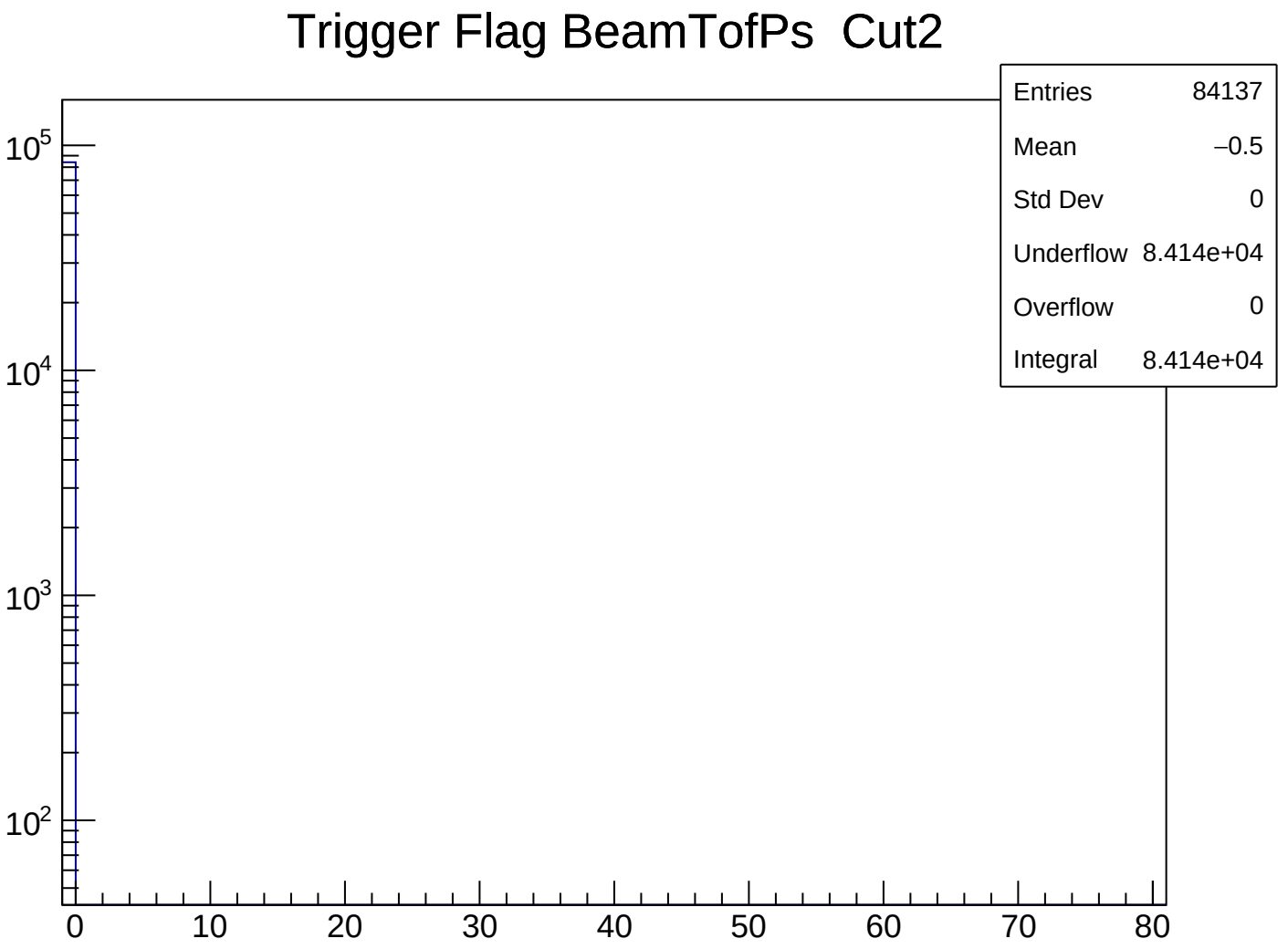

xsacKurama Cut2
Entries 88003
Mean 202.5
Std Dev 106.9
Underflow 0
Overflow 0
Integral 8.8e+04
3000
2500
2000
1500
1000
500
0
–100
0
100
200
300
400
500
600
700

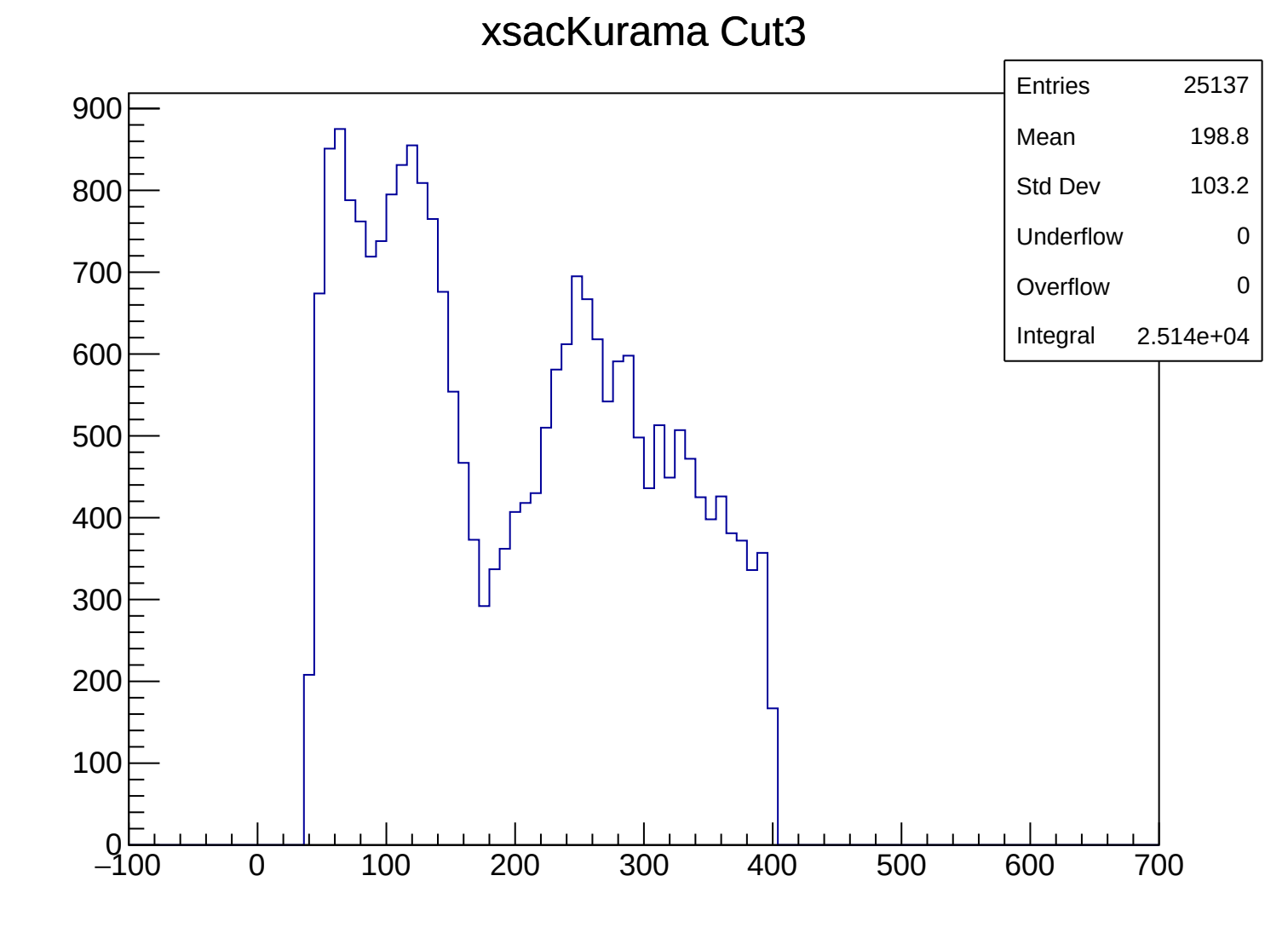

ysacKurama Cut2
Entries 88003
Mean −15.08
Std Dev 86.81
Underflow 0
Overflow 0
Integral 8.8e+04
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

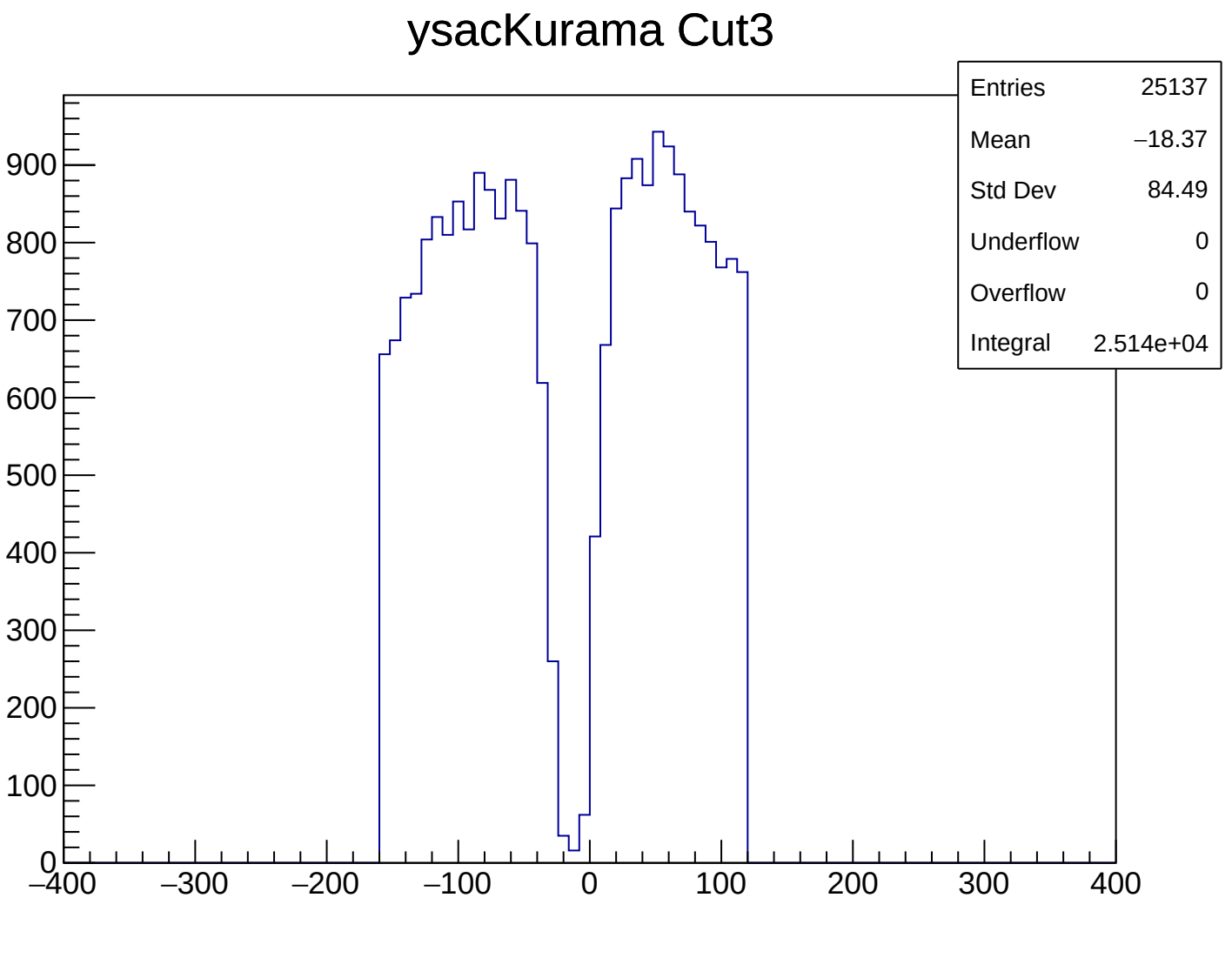

tSac Or
×10^3
350
300
250
200
150
100
50
0
−40
−20
0
20
40
60
80
Entries 666138
Mean 0.8977
Std Dev 6.372
Underflow 237
Overflow 8917
Integral 6.068e+05
χ² / ndf 8.459e+04 / 2
Constant 3.943e+05 ± 6.555e+02
Mean 0.7271 ± 0.0015
Sigma 0.9825 ± 0.0009

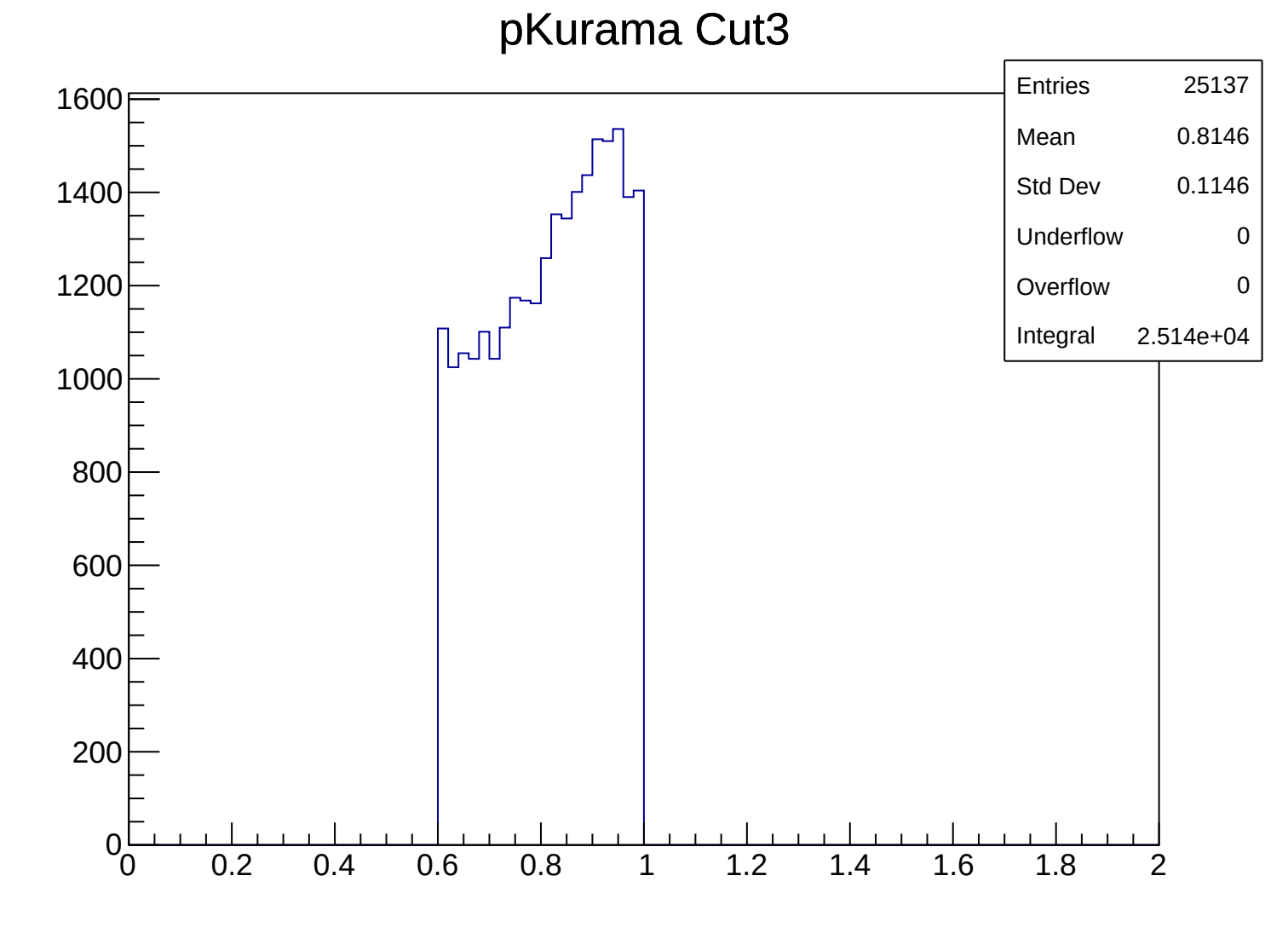

tSac Or Cut2
Entries 53350
Mean 0.7954
Std Dev 8.336
Underflow 29
Overflow 1120
Integral 4.573e+04
χ² / ndf 2630 / 2
Constant 1.431e+04 ± 8.722e+01
Mean −0.7963 ± 0.0213
Sigma 2.377 ± 0.014
16000
14000
12000
10000
8000
6000
4000
2000
0
−40
−20
0
20
40
60
80

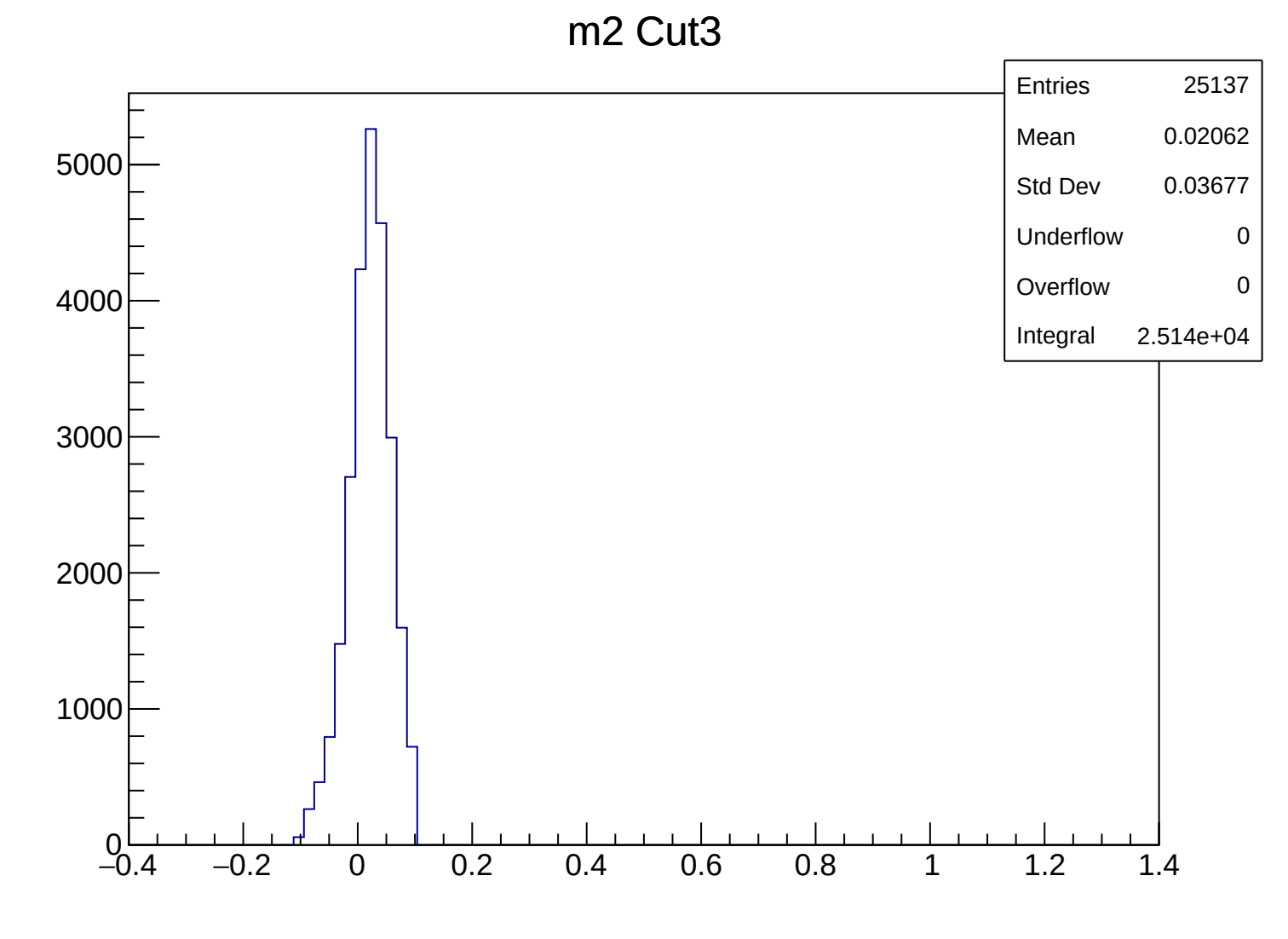

Trigger Flag BeamTofPs
Entries 723777
Mean −0.5
Std Dev 0
Underflow 7.238e+05
Overflow 0
Integral 7.238e+05
10^6
10^5
10^4
10^3
0
10
20
30
40
50
60
70
80

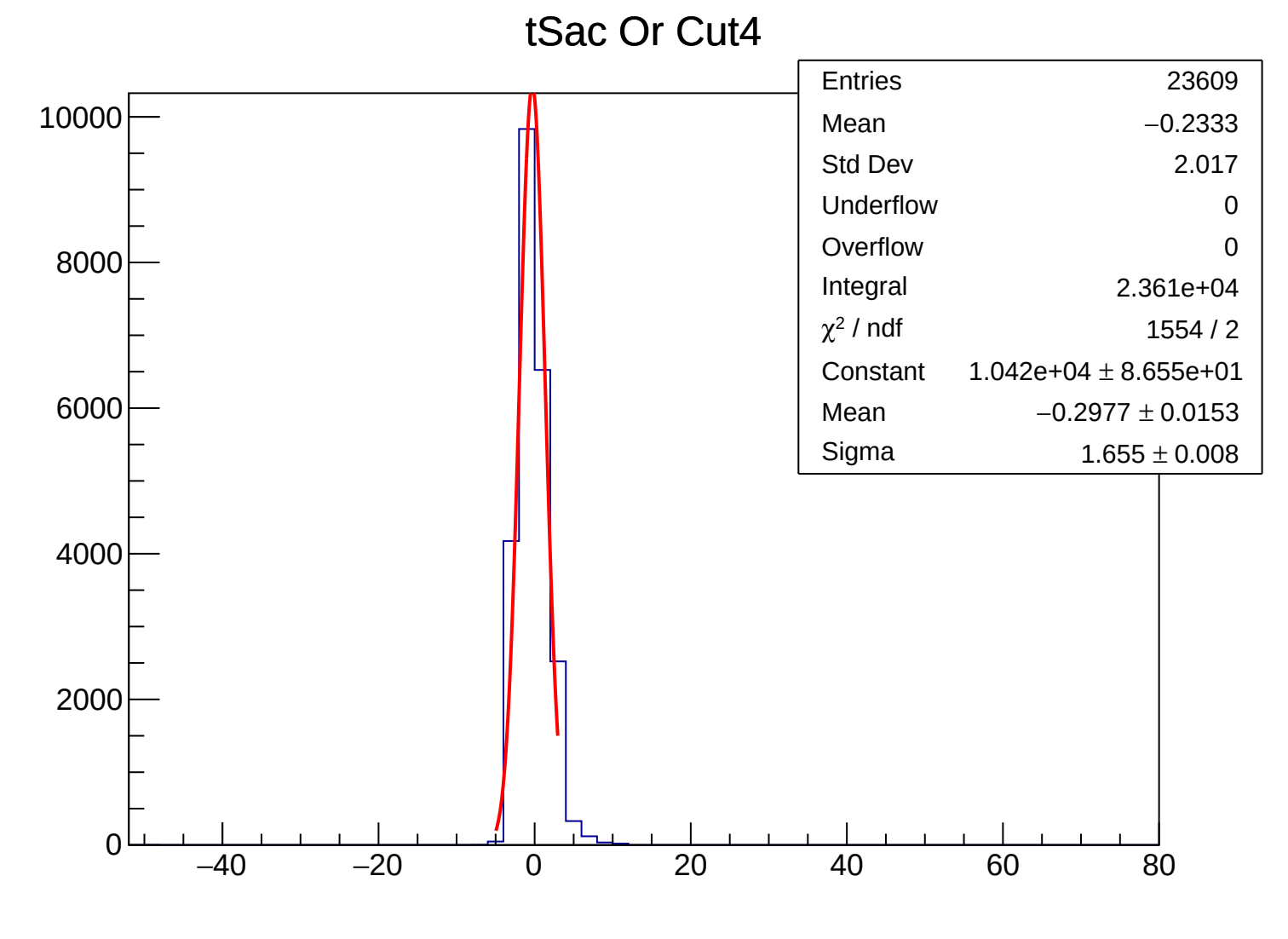

Trigger Flag BeamTofPs Cut2
Entries 84137
Mean −0.5
Std Dev 0
Underflow 8.414e+04
Overflow 0
Integral 8.414e+04
10^5
10^4
10^3
10^2
0
10
20
30
40
50
60
70
80

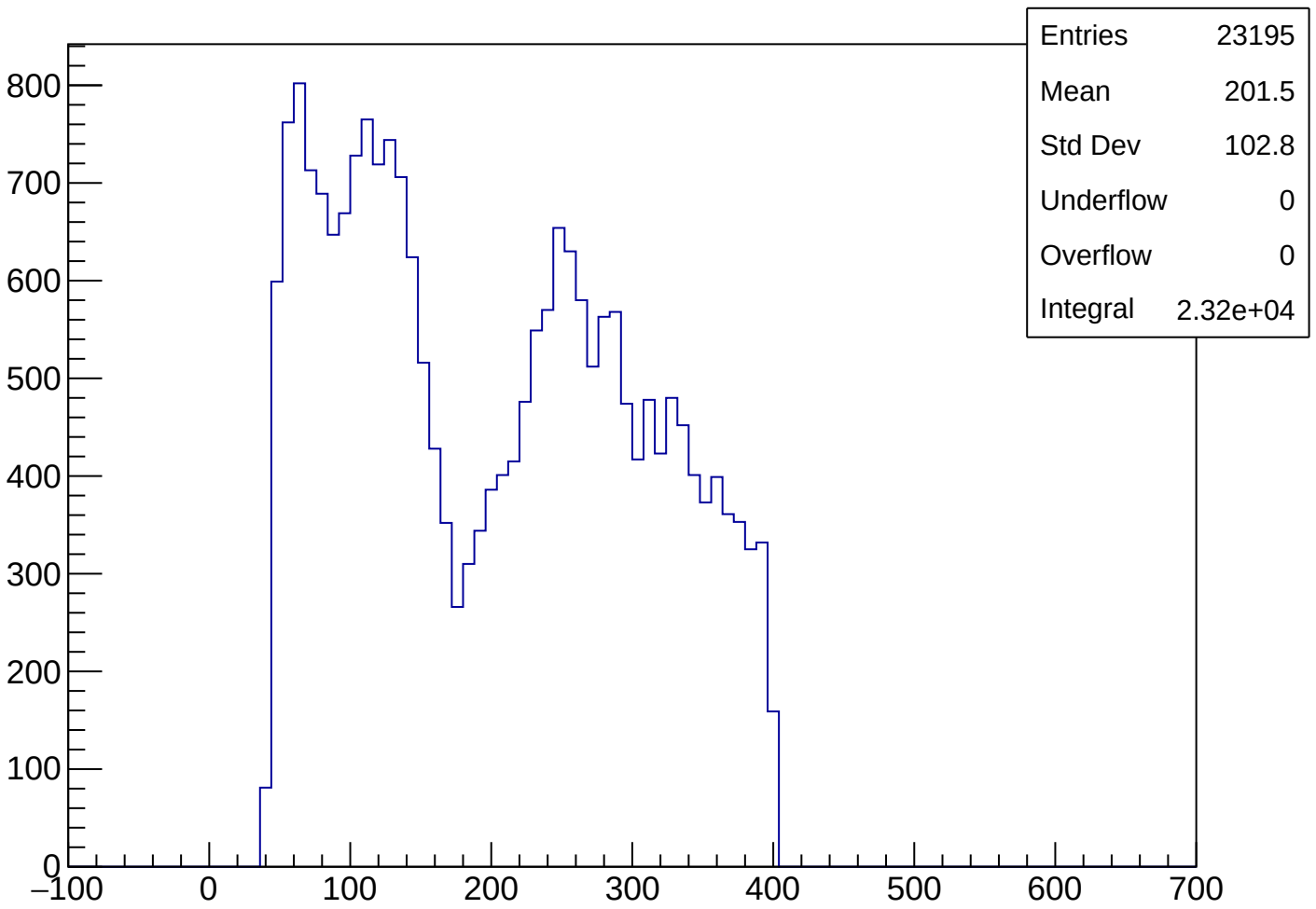

xsacKurama Cut3
Entries 25137
Mean 198.8
Std Dev 103.2
Underflow 0
Overflow 0
Integral 2.514e+04
900
800
700
600
500
400
300
200
100
0
–100
0
100
200
300
400
500
600
700

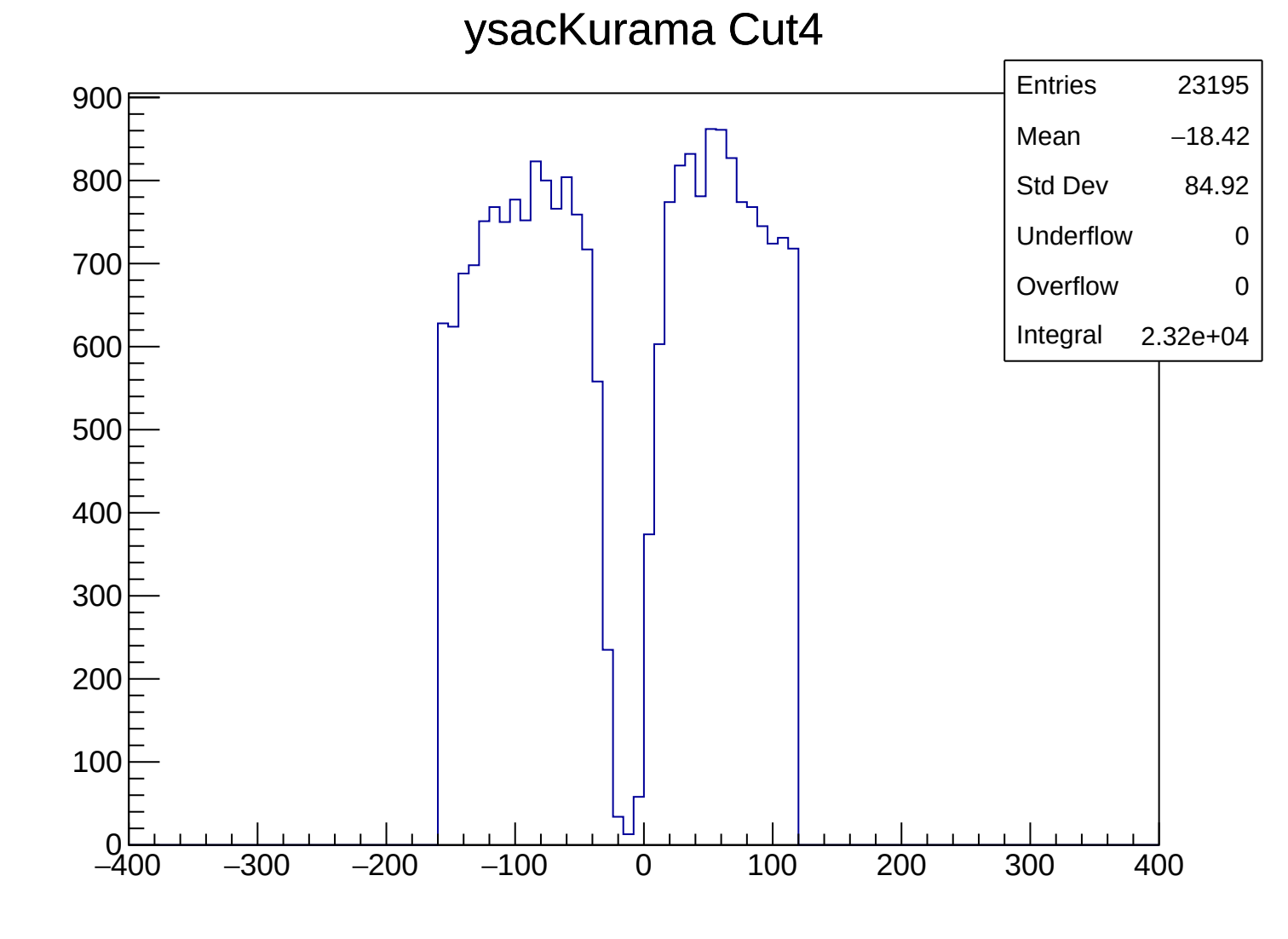

ysacKurama Cut3
Entries 25137
Mean −18.37
Std Dev 84.49
Underflow 0
Overflow 0
Integral 2.514e+04
900
800
700
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

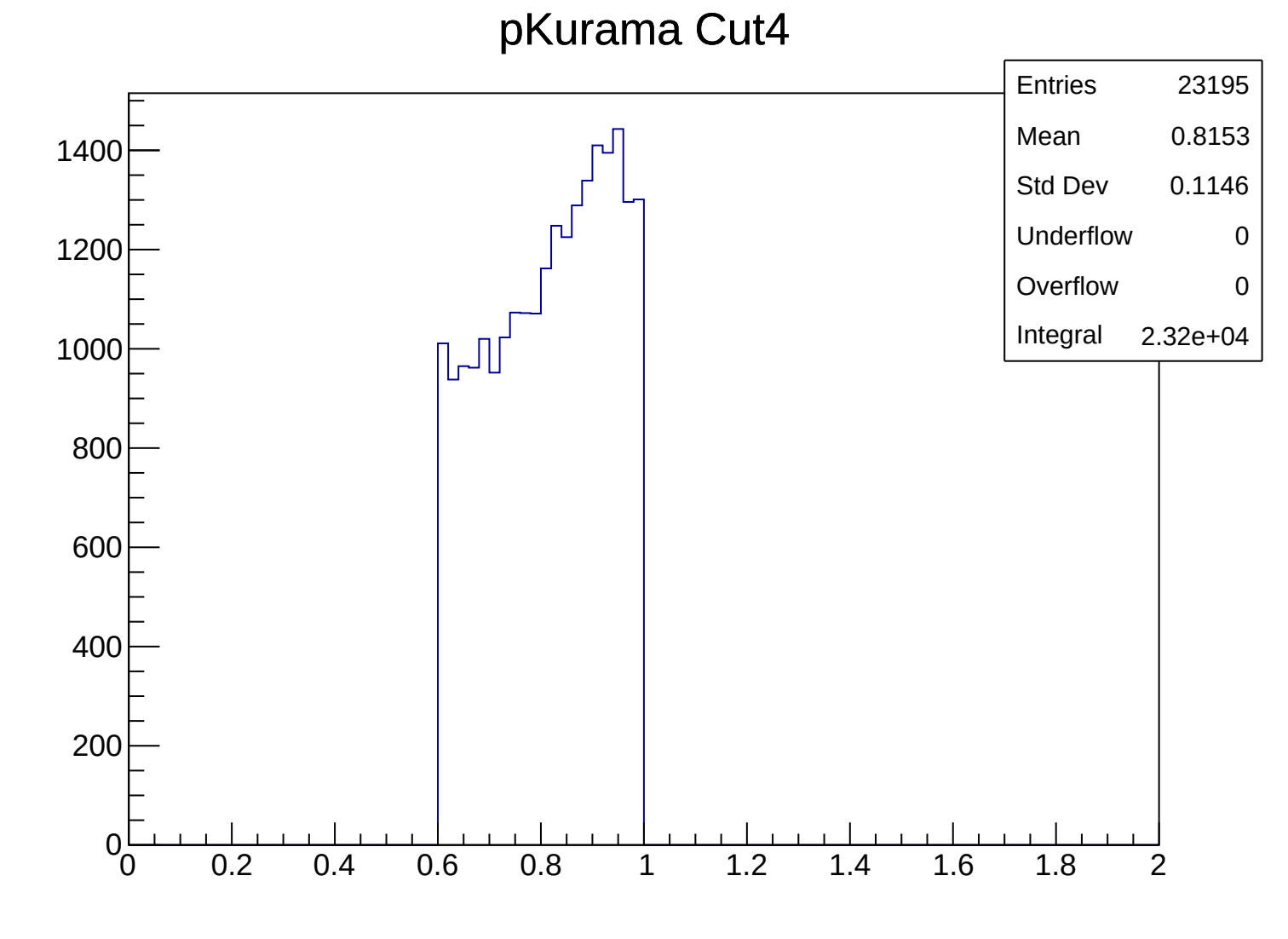

pKurama Cut3
Entries 25137
Mean 0.8146
Std Dev 0.1146
Underflow 0
Overflow 0
Integral 2.514e+04
1600
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

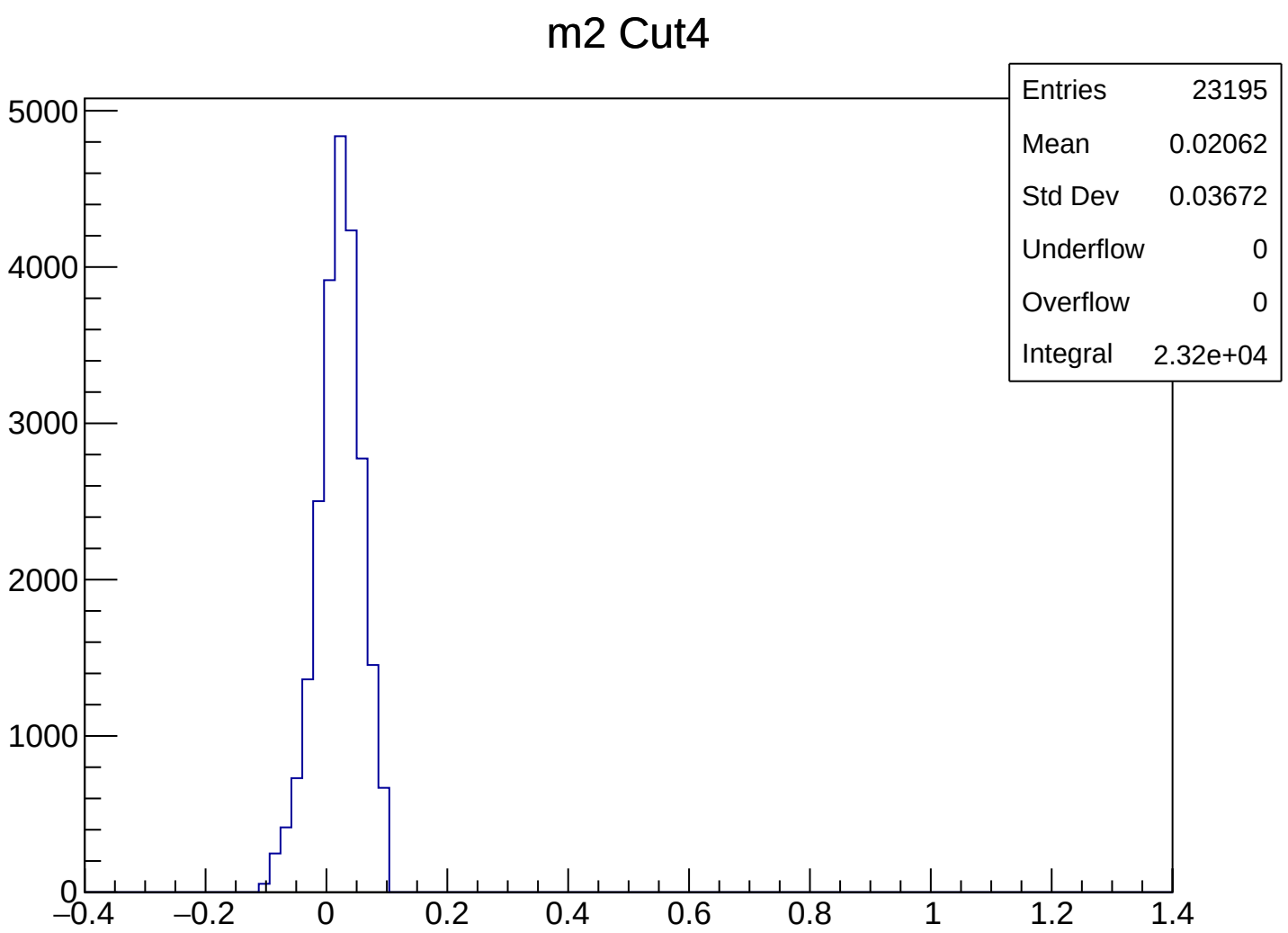

m2 Cut3
Entries 25137
Mean 0.02062
Std Dev 0.03677
Underflow 0
Overflow 0
Integral 2.514e+04
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

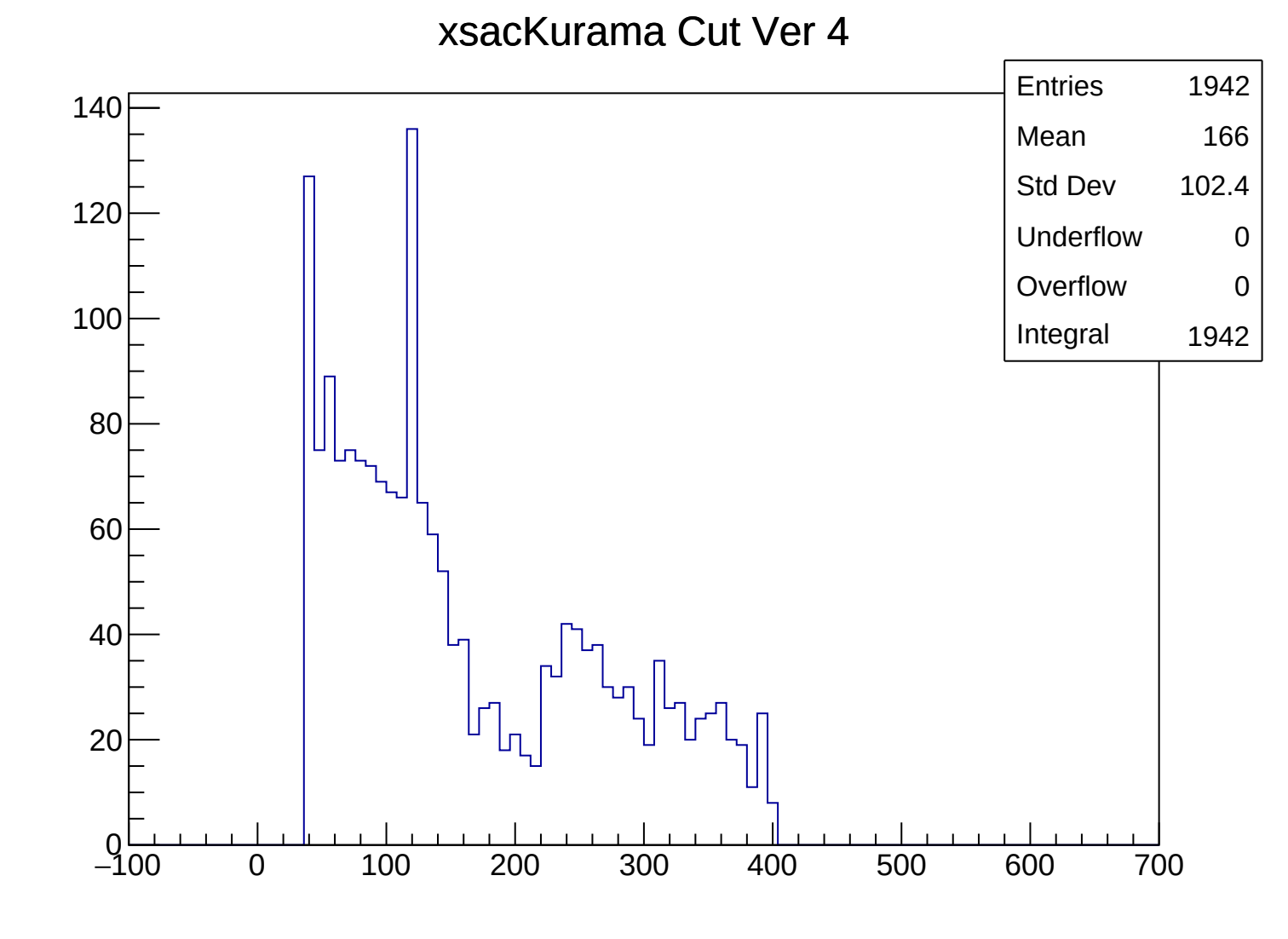

tSac Or Cut4
Entries 23609
Mean −0.2333
Std Dev 2.017
Underflow 0
Overflow 0
Integral 2.361e+04
χ² / ndf 1554 / 2
Constant 1.042e+04 ± 8.655e+01
Mean −0.2977 ± 0.0153
Sigma 1.655 ± 0.008
10000
8000
6000
4000
2000
0
−40
−20
0
20
40
60
80

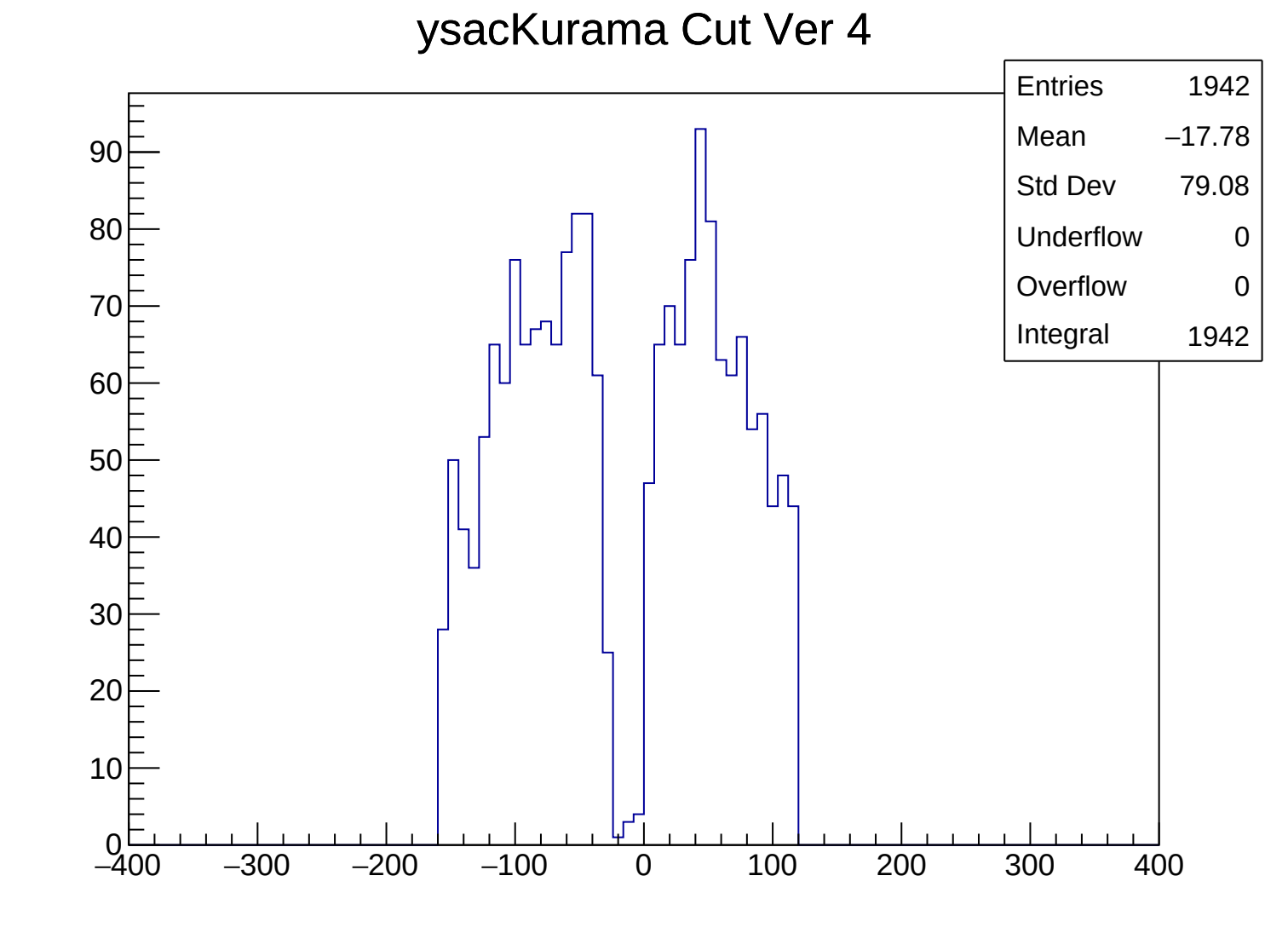

xsacKurama Cut4
Entries 23195
Mean 201.5
Std Dev 102.8
Underflow 0
Overflow 0
Integral 2.32e+04
800
700
600
500
400
300
200
100
0
–100
0
100
200
300
400
500
600
700

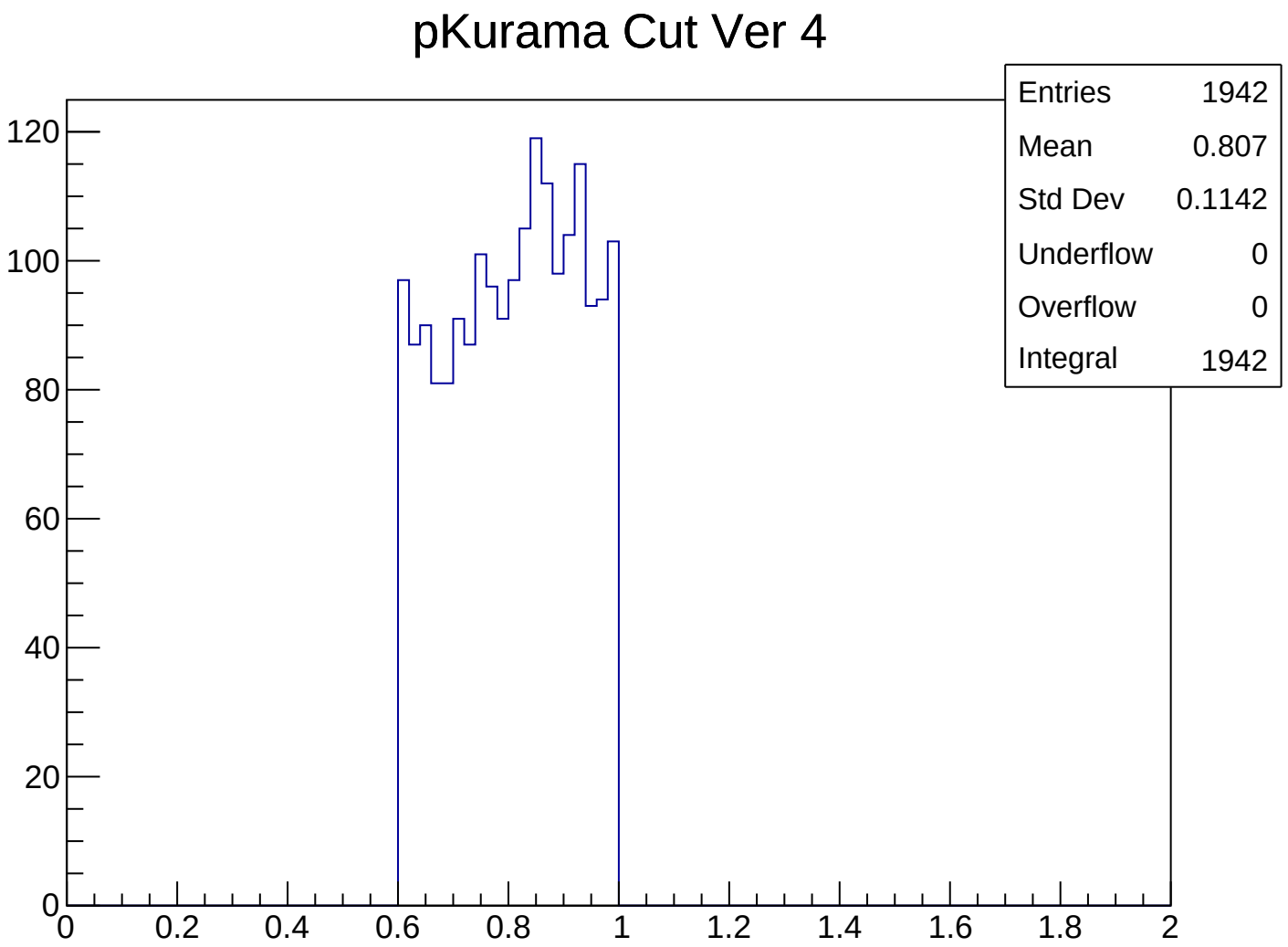

ysacKurama Cut4
Entries 23195
Mean −18.42
Std Dev 84.92
Underflow 0
Overflow 0
Integral 2.32e+04
900
800
700
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

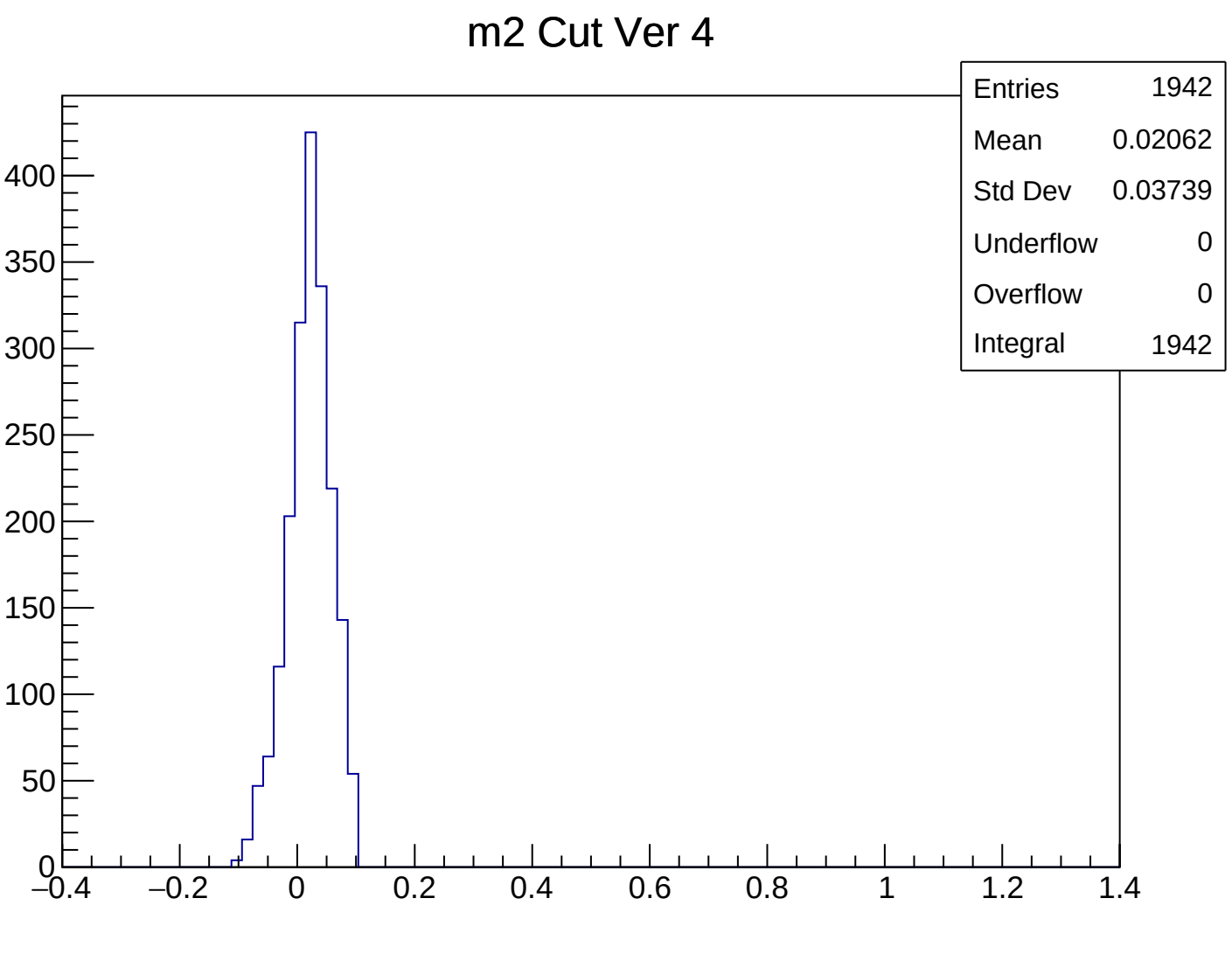

pKurama Cut4
Entries 23195
Mean 0.8153
Std Dev 0.1146
Underflow 0
Overflow 0
Integral 2.32e+04
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

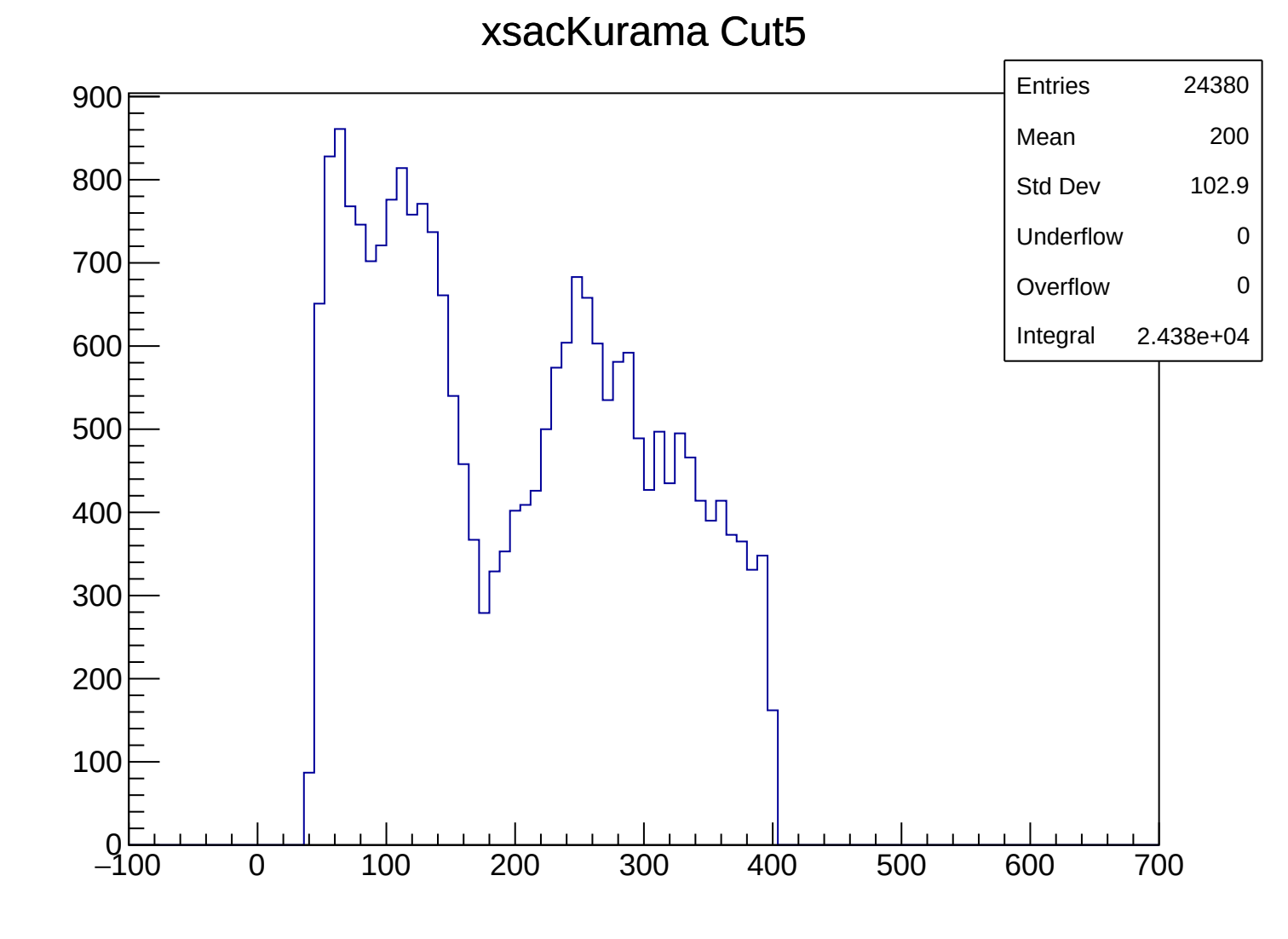

m2 Cut4
Entries 23195
Mean 0.02062
Std Dev 0.03672
Underflow 0
Overflow 0
Integral 2.32e+04
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

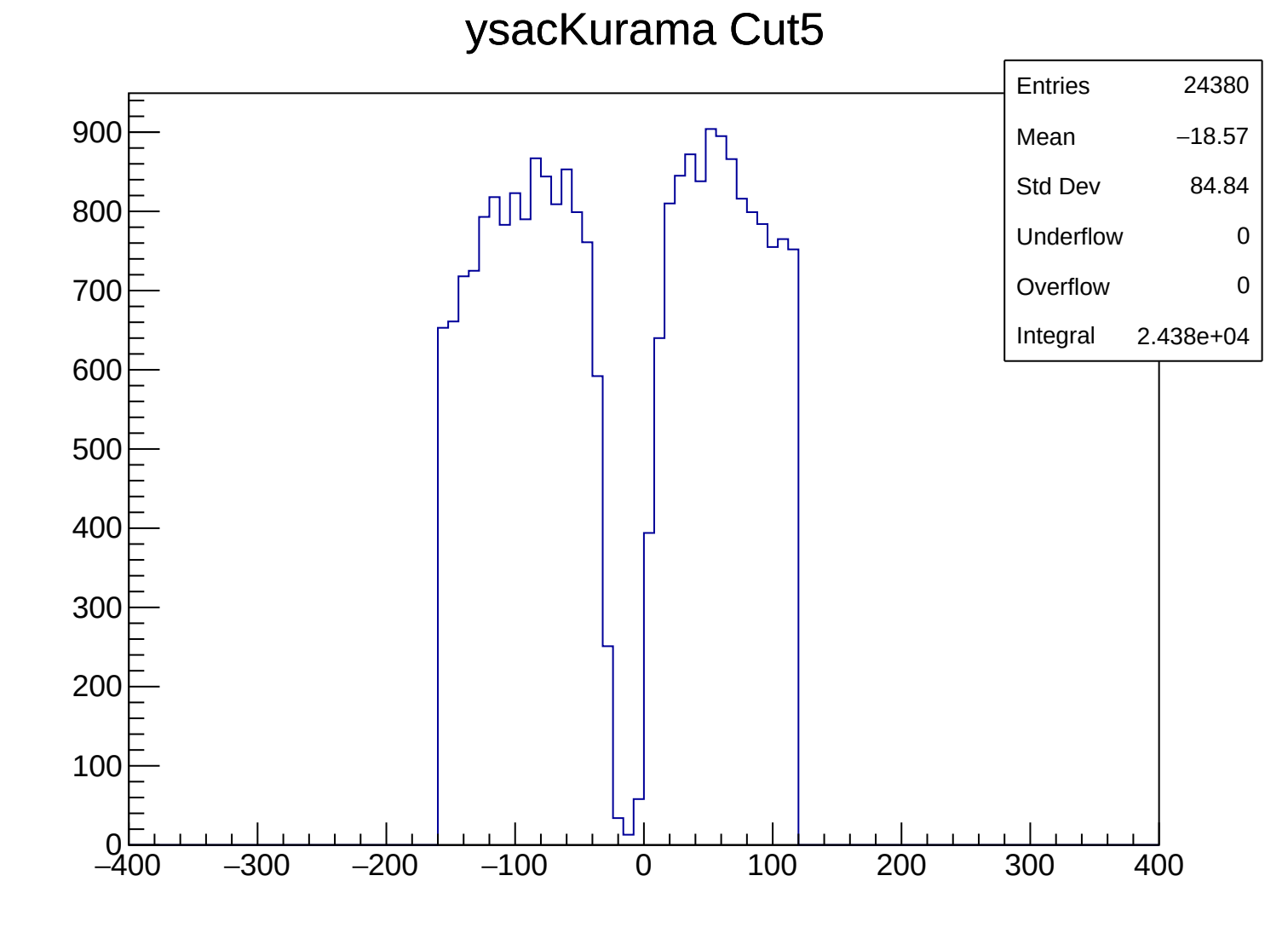

xsacKurama Cut Ver 4
Entries 1942
Mean 166
Std Dev 102.4
Underflow 0
Overflow 0
Integral 1942
140
120
100
80
60
40
20
0
–100
0
100
200
300
400
500
600
700

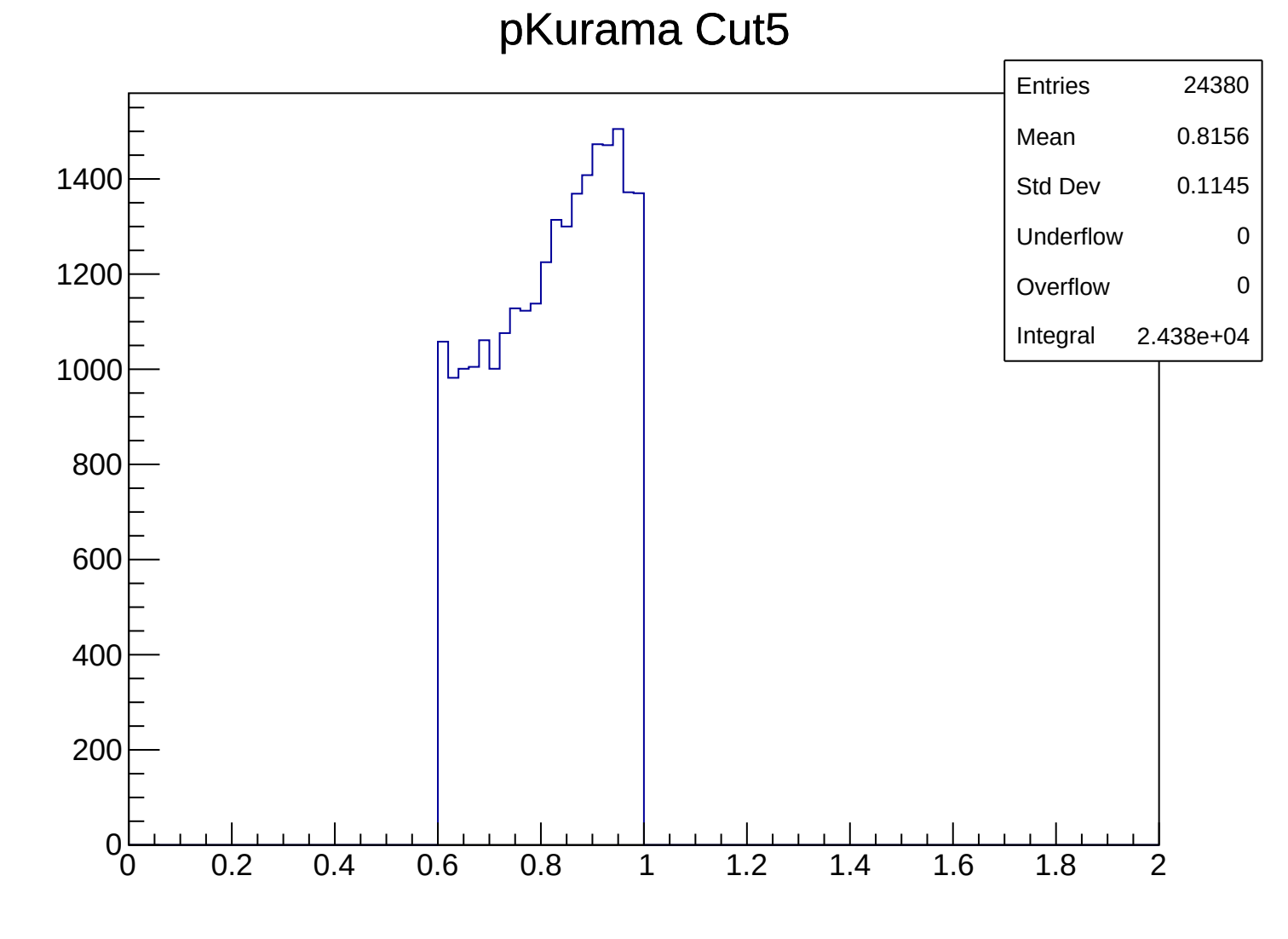

ysacKurama Cut Ver 4
Entries 1942
Mean –17.78
Std Dev 79.08
Underflow 0
Overflow 0
Integral 1942
90
80
70
60
50
40
30
20
10
0
–400
–300
–200
–100
0
100
200
300
400

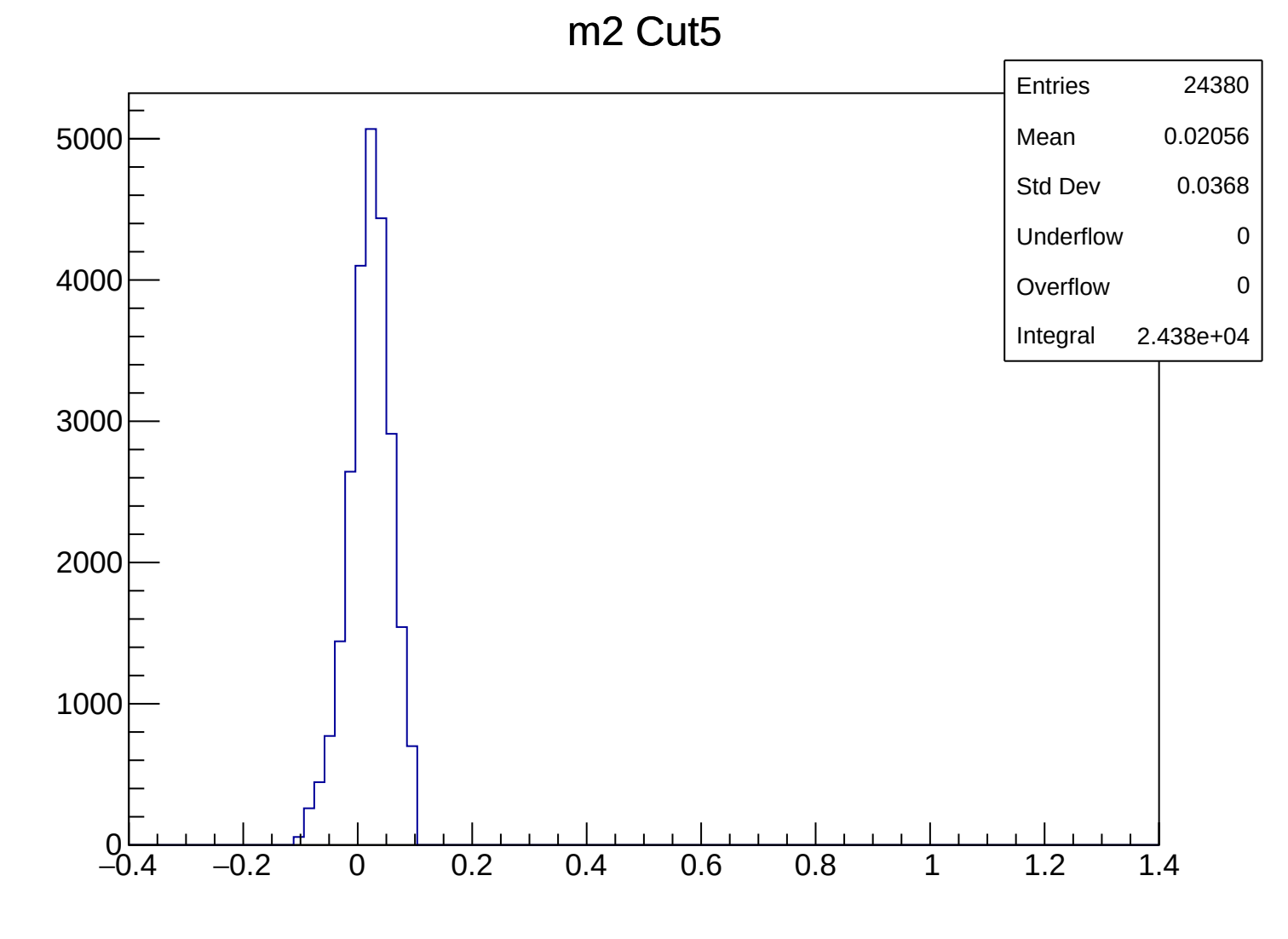

pKurama Cut Ver 4
Entries 1942
Mean 0.807
Std Dev 0.1142
Underflow 0
Overflow 0
Integral 1942
120
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

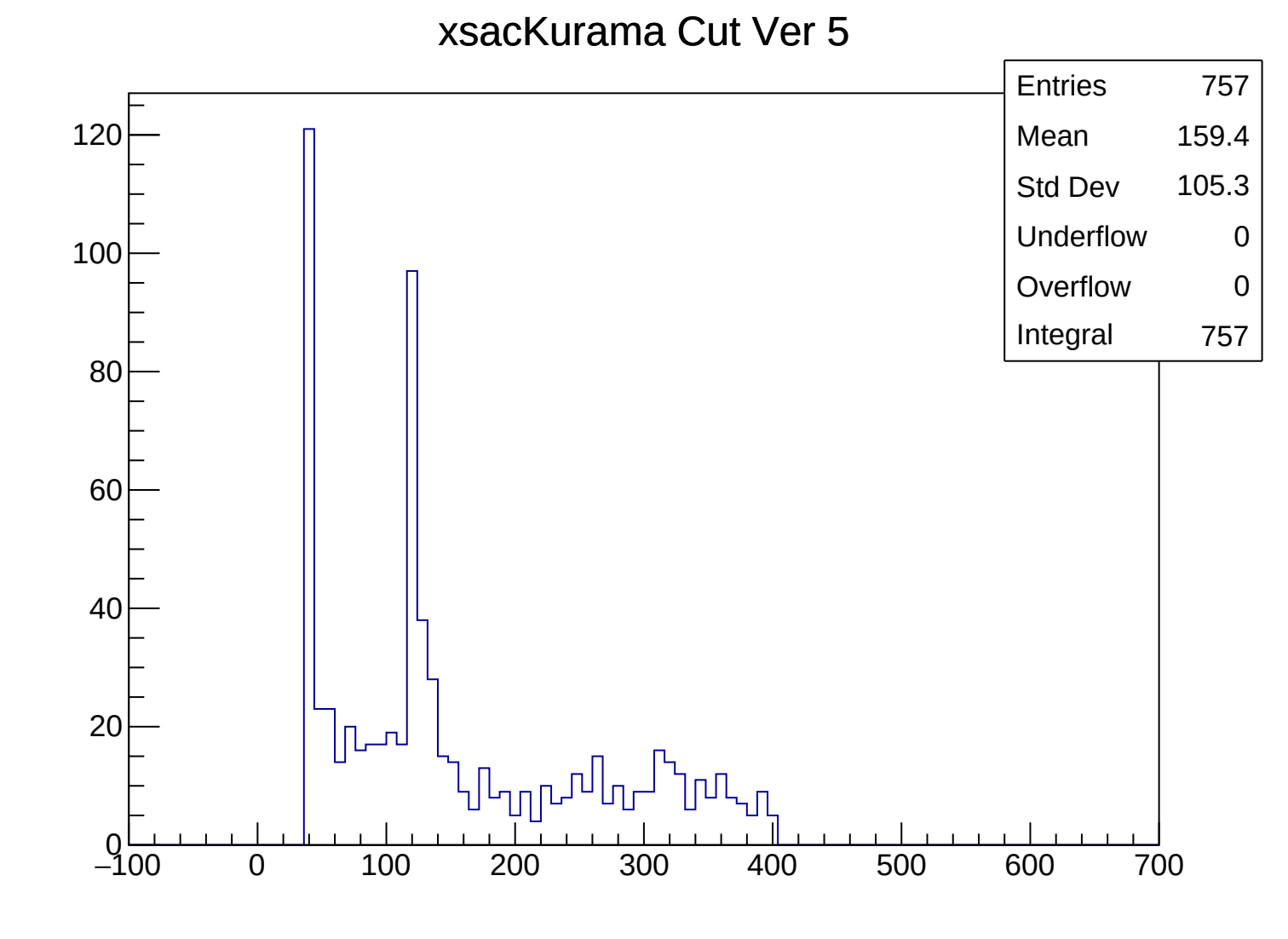

m2 Cut Ver 4
Entries 1942
Mean 0.02062
Std Dev 0.03739
Underflow 0
Overflow 0
Integral 1942
400
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

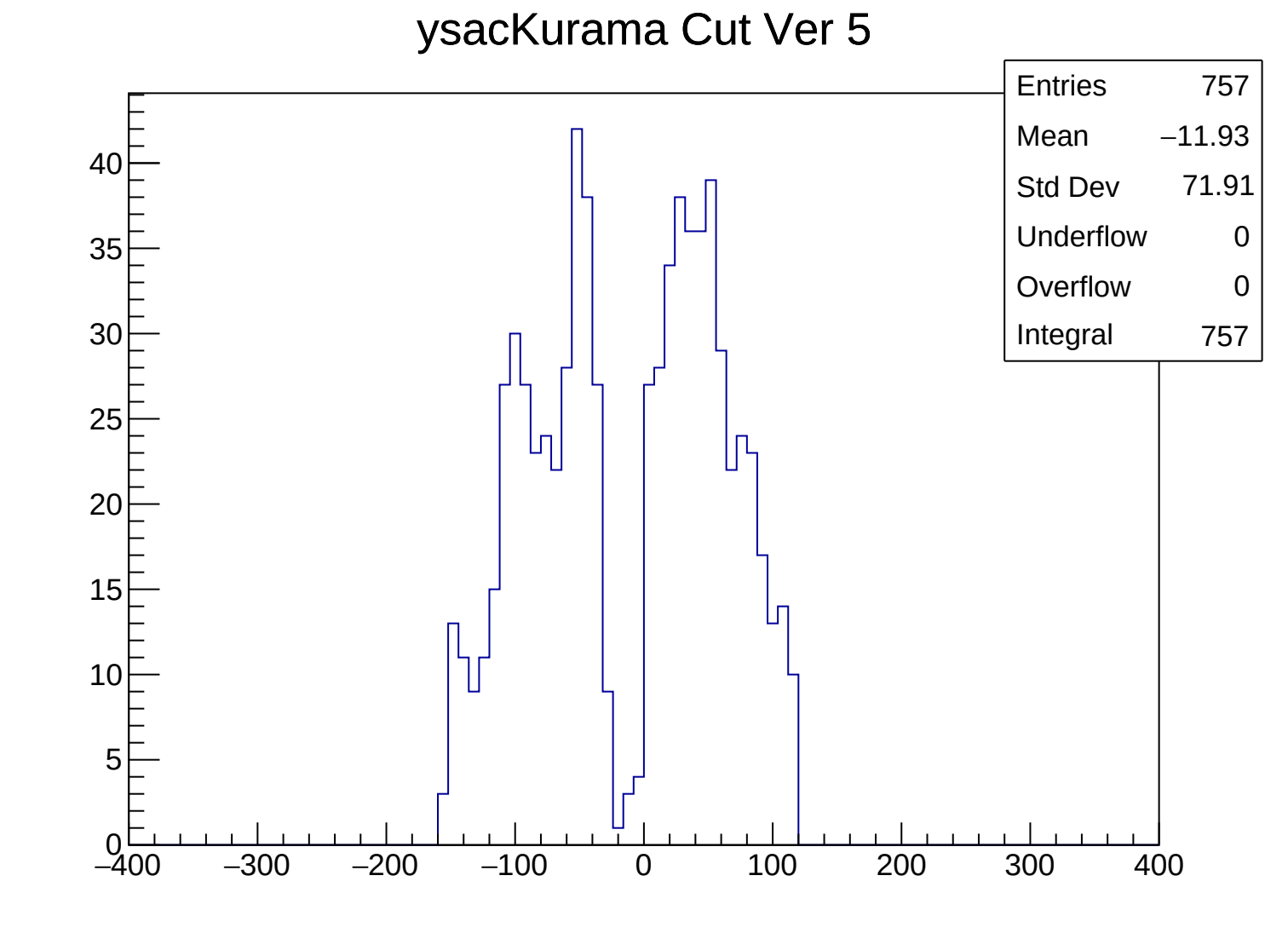

xsacKurama Cut5
Entries 24380
Mean 200
Std Dev 102.9
Underflow 0
Overflow 0
Integral 2.438e+04
900
800
700
600
500
400
300
200
100
0
–100
0
100
200
300
400
500
600
700

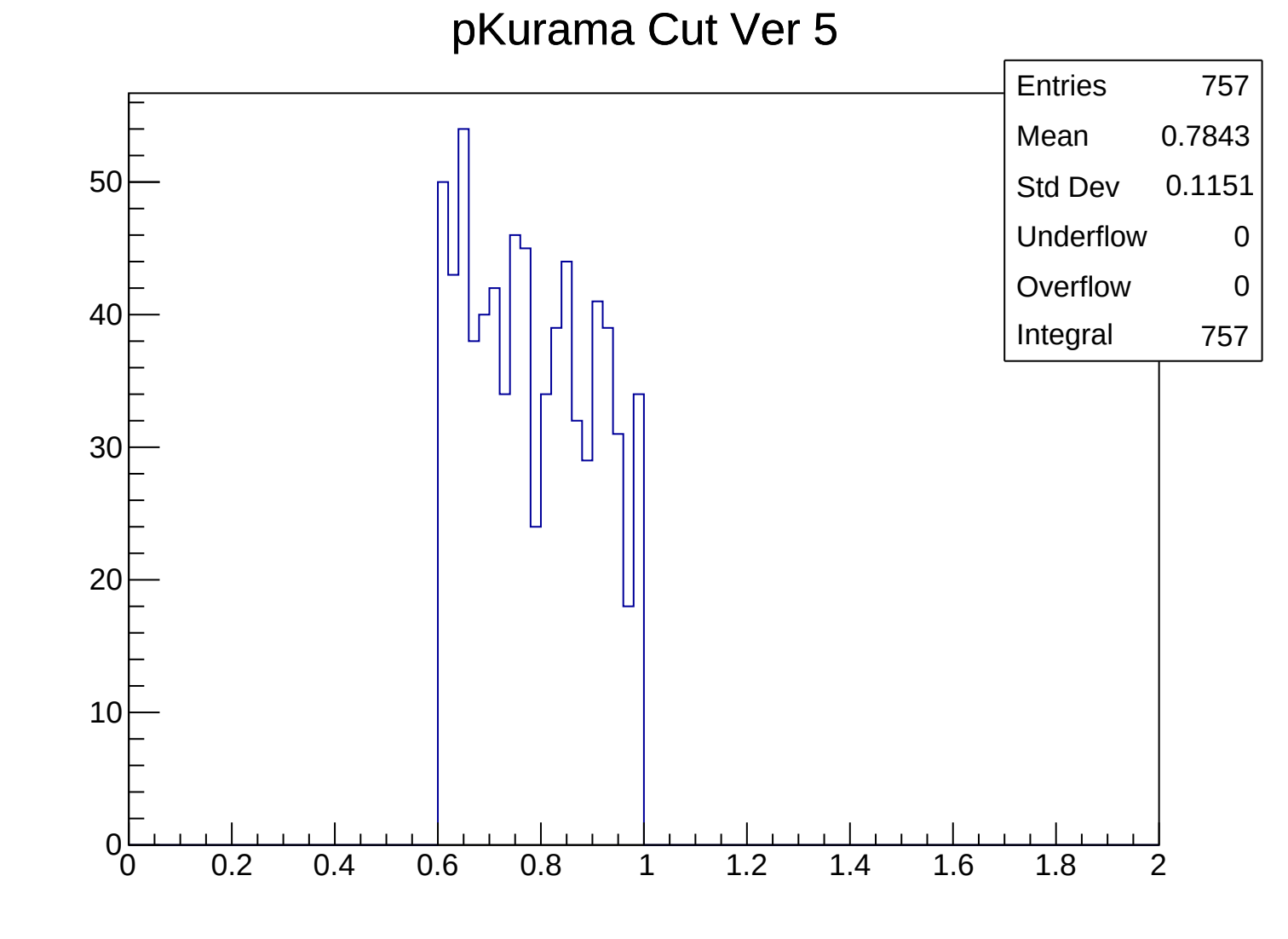

ysacKurama Cut5
Entries 24380
Mean −18.57
Std Dev 84.84
Underflow 0
Overflow 0
Integral 2.438e+04
900
800
700
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

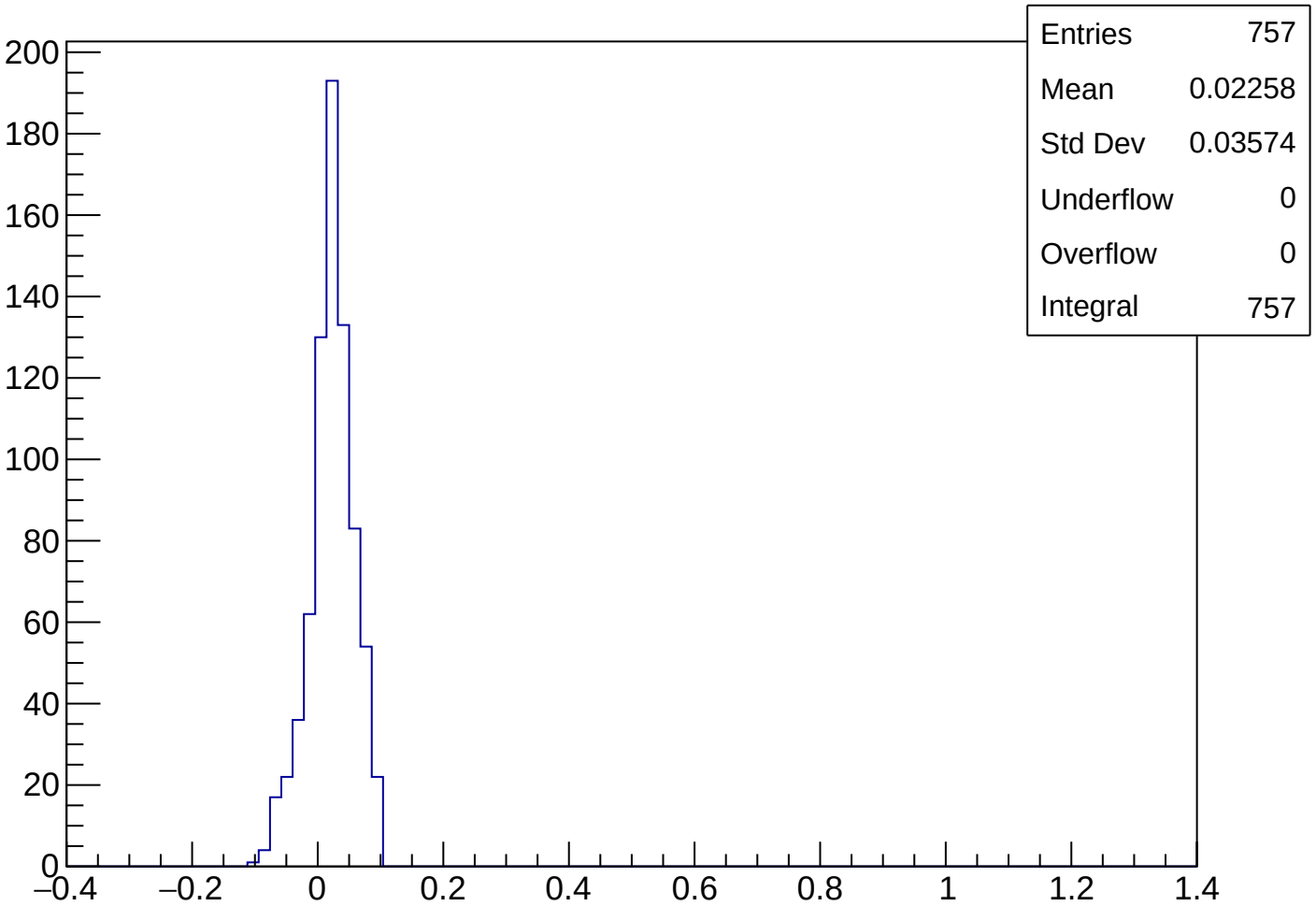

pKurama Cut5
Entries 24380
Mean 0.8156
Std Dev 0.1145
Underflow 0
Overflow 0
Integral 2.438e+04
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

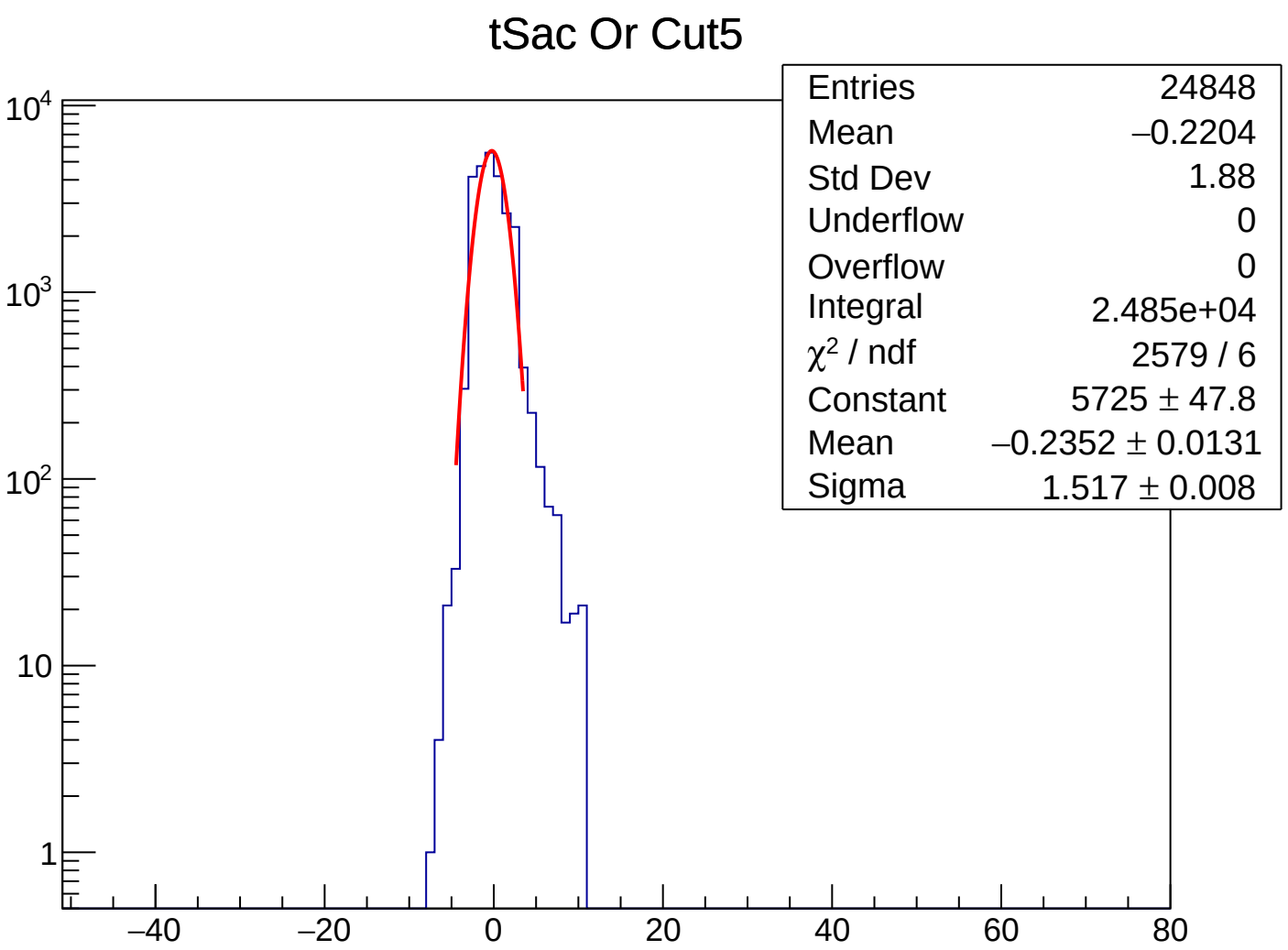

m2 Cut5
Entries 24380
Mean 0.02056
Std Dev 0.0368
Underflow 0
Overflow 0
Integral 2.438e+04
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

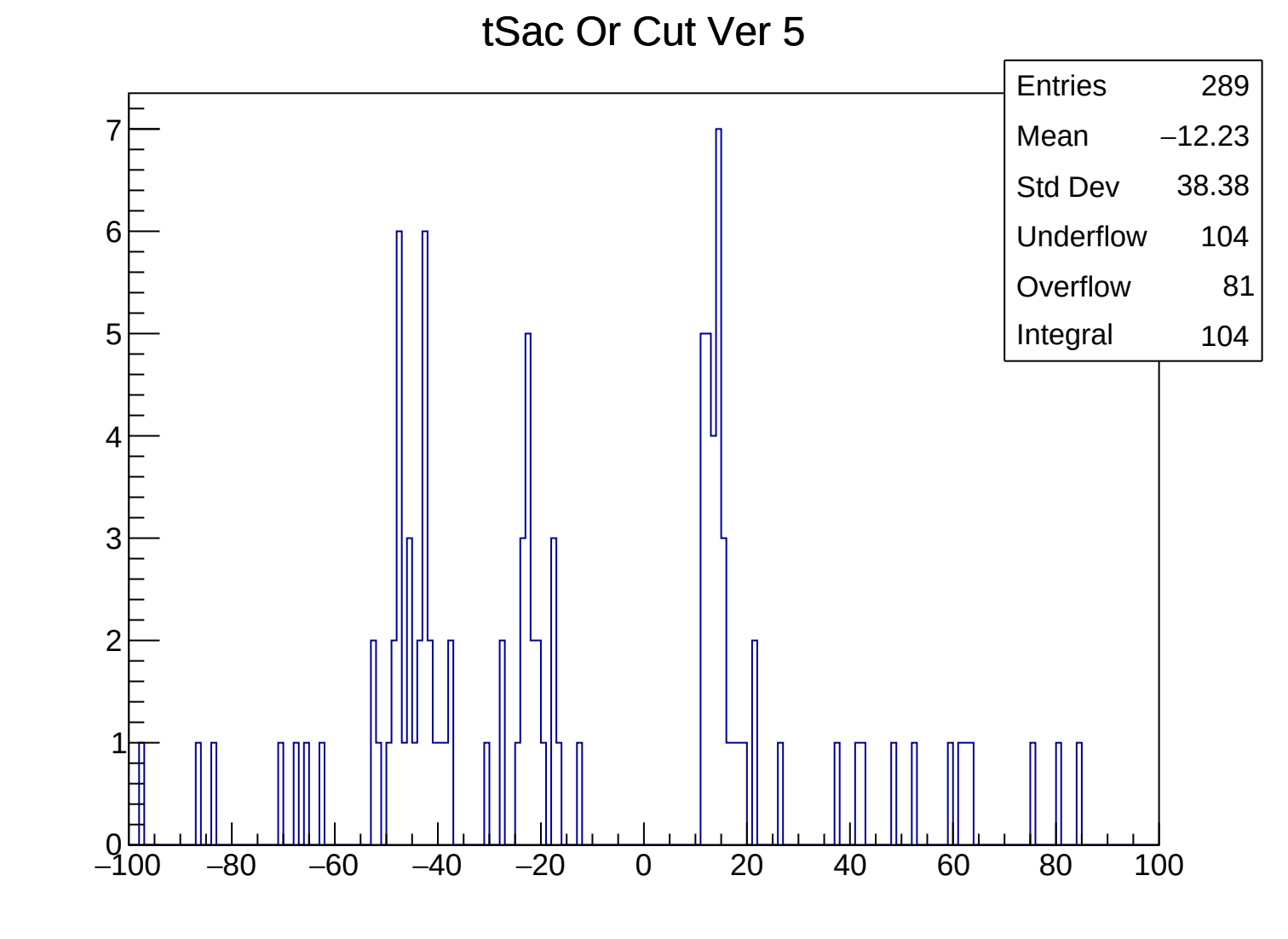

xsacKurama Cut Ver 5
Entries 757
Mean 159.4
Std Dev 105.3
Underflow 0
Overflow 0
Integral 757
120
100
80
60
40
20
0
–100
0
100
200
300
400
500
600
700

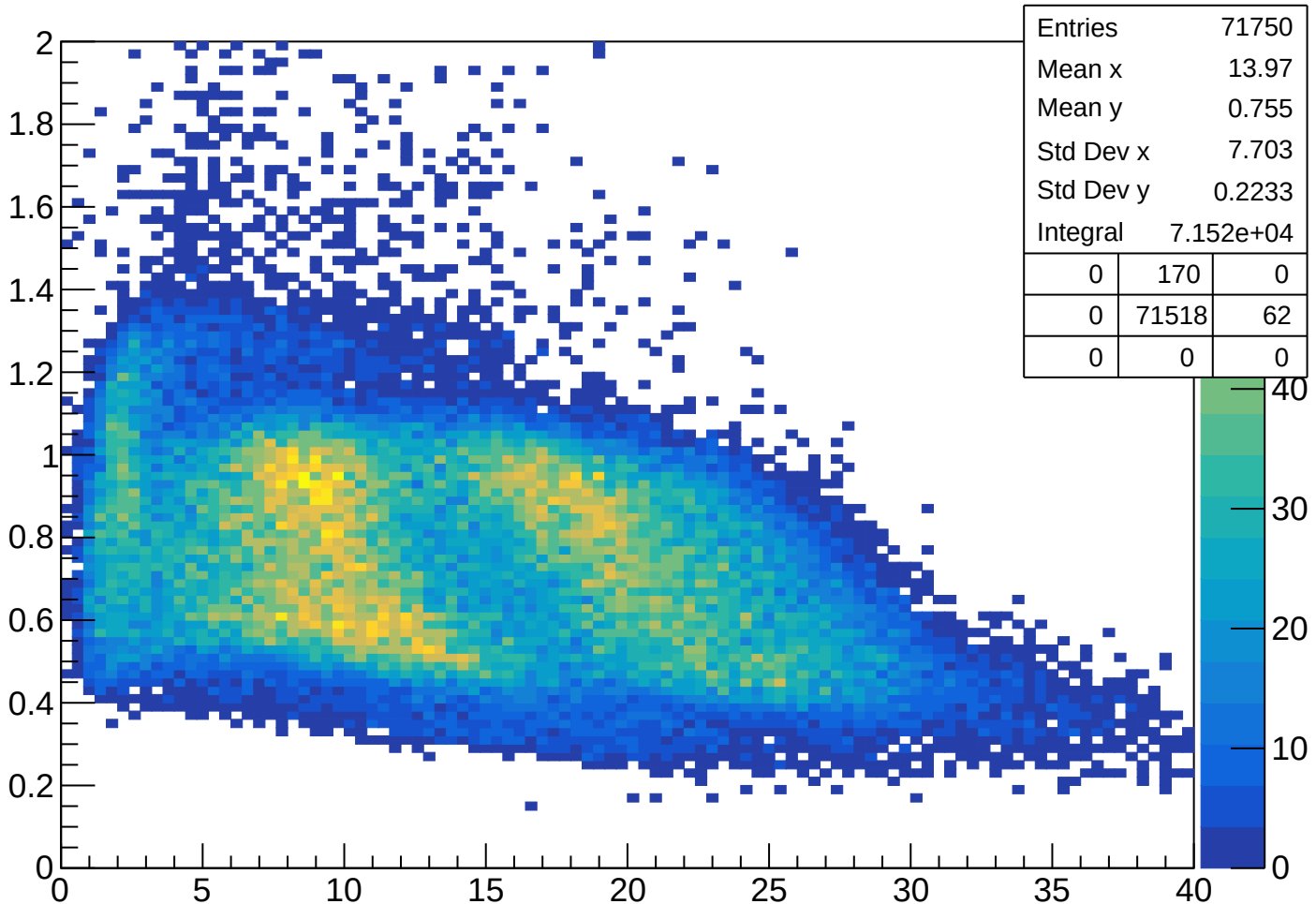

ysacKurama Cut Ver 5
Entries 757
Mean −11.93
Std Dev 71.91
Underflow 0
Overflow 0
Integral 757
40
35
30
25
20
15
10
5
0
−400
−300
−200
−100
0
100
200
300
400

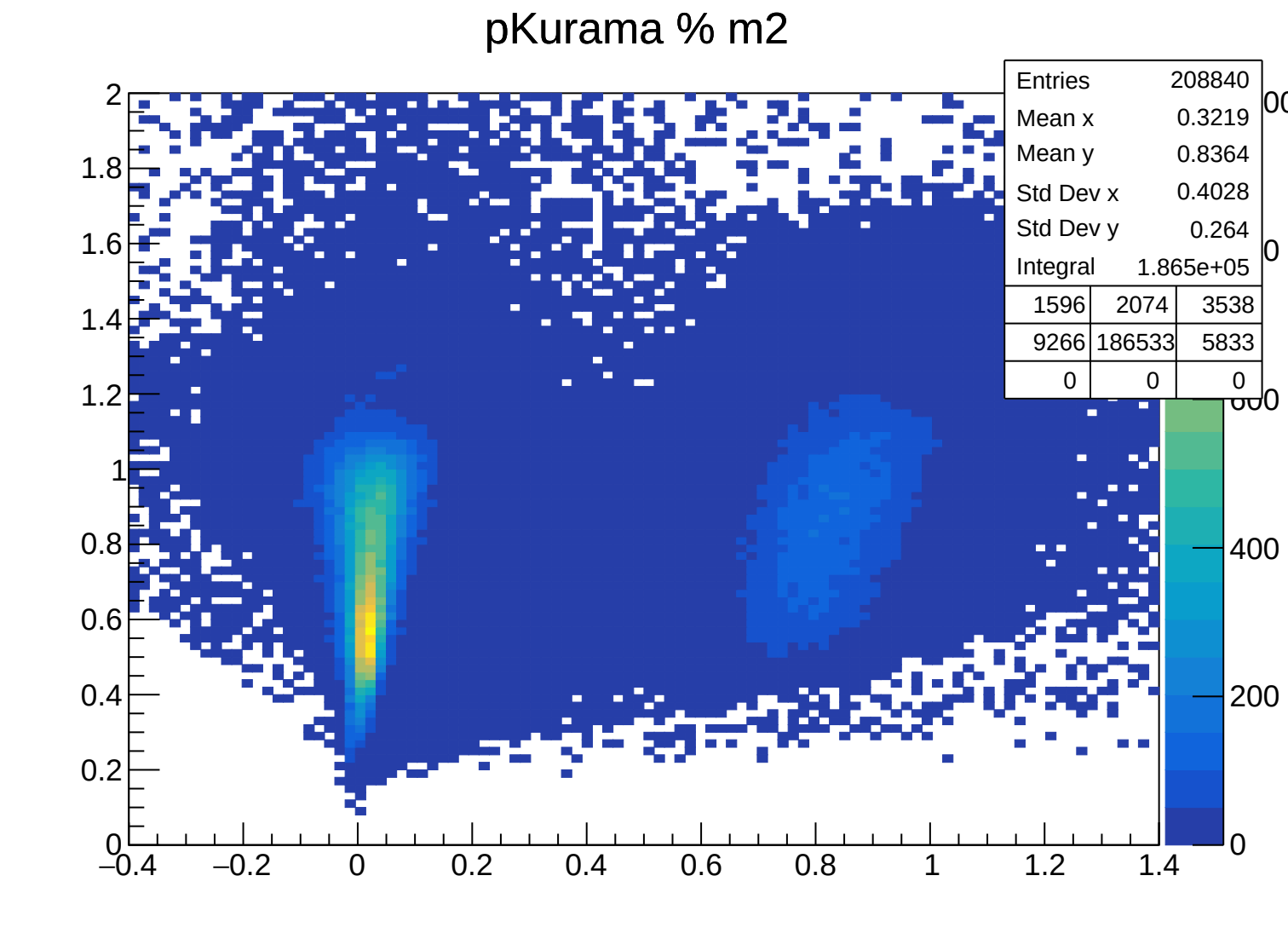

pKurama Cut Ver 5
Entries 757
Mean 0.7843
Std Dev 0.1151
Underflow 0
Overflow 0
Integral 757
0
10
20
30
40
50
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

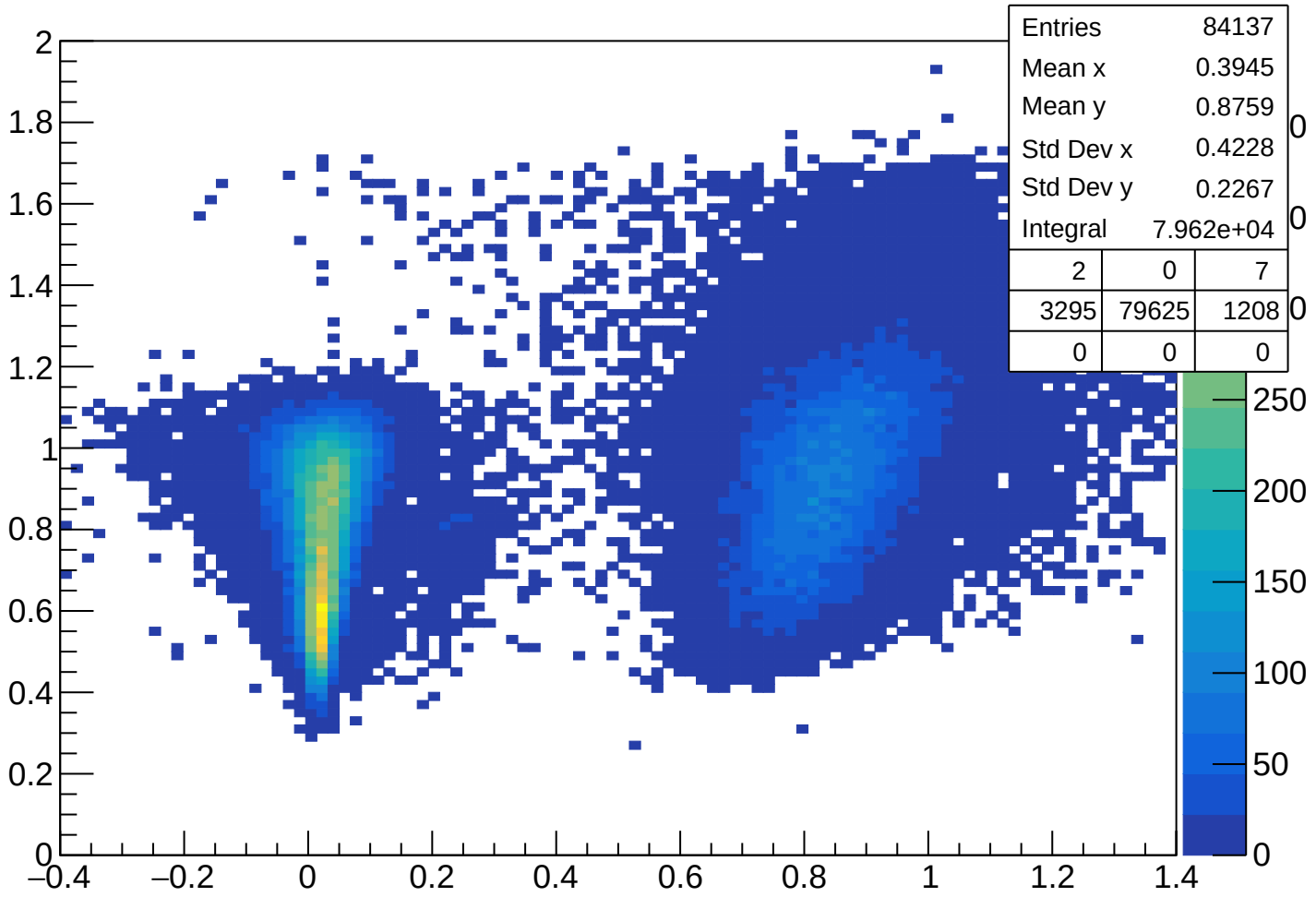

m2 Cut Ver 5
Entries 757
Mean 0.02258
Std Dev 0.03574
Underflow 0
Overflow 0
Integral 757
200
180
160
140
120
100
80
60
40
20
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

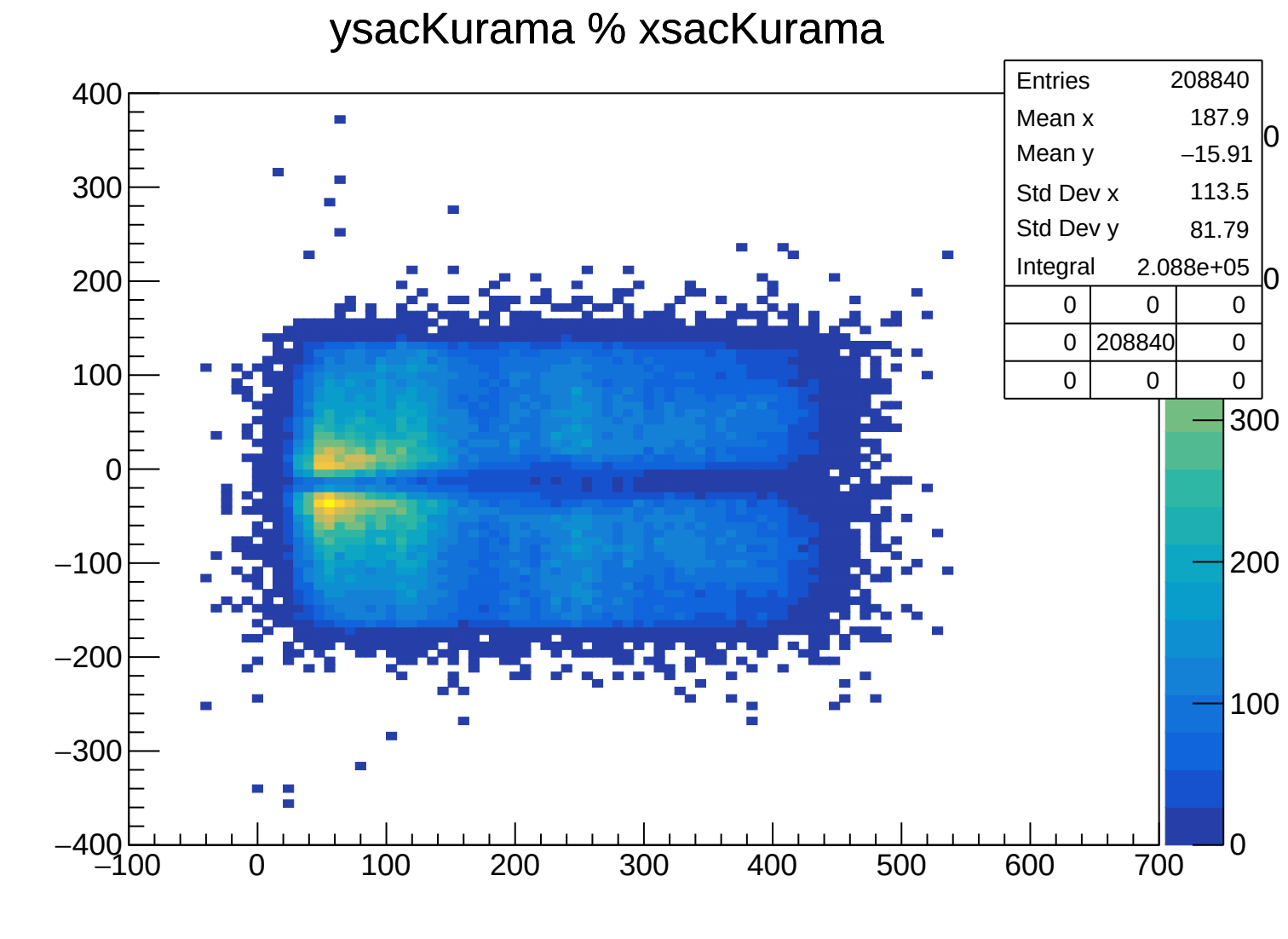

tSac Or Cut5
Entries 24848
Mean –0.2204
Std Dev 1.88
Underflow 0
Overflow 0
Integral 2.485e+04
χ² / ndf 2579 / 6
Constant 5725 ± 47.8
Mean –0.2352 ± 0.0131
Sigma 1.517 ± 0.008
10⁴
10³
10²
10
1
–40
–20
0
20
40
60
80

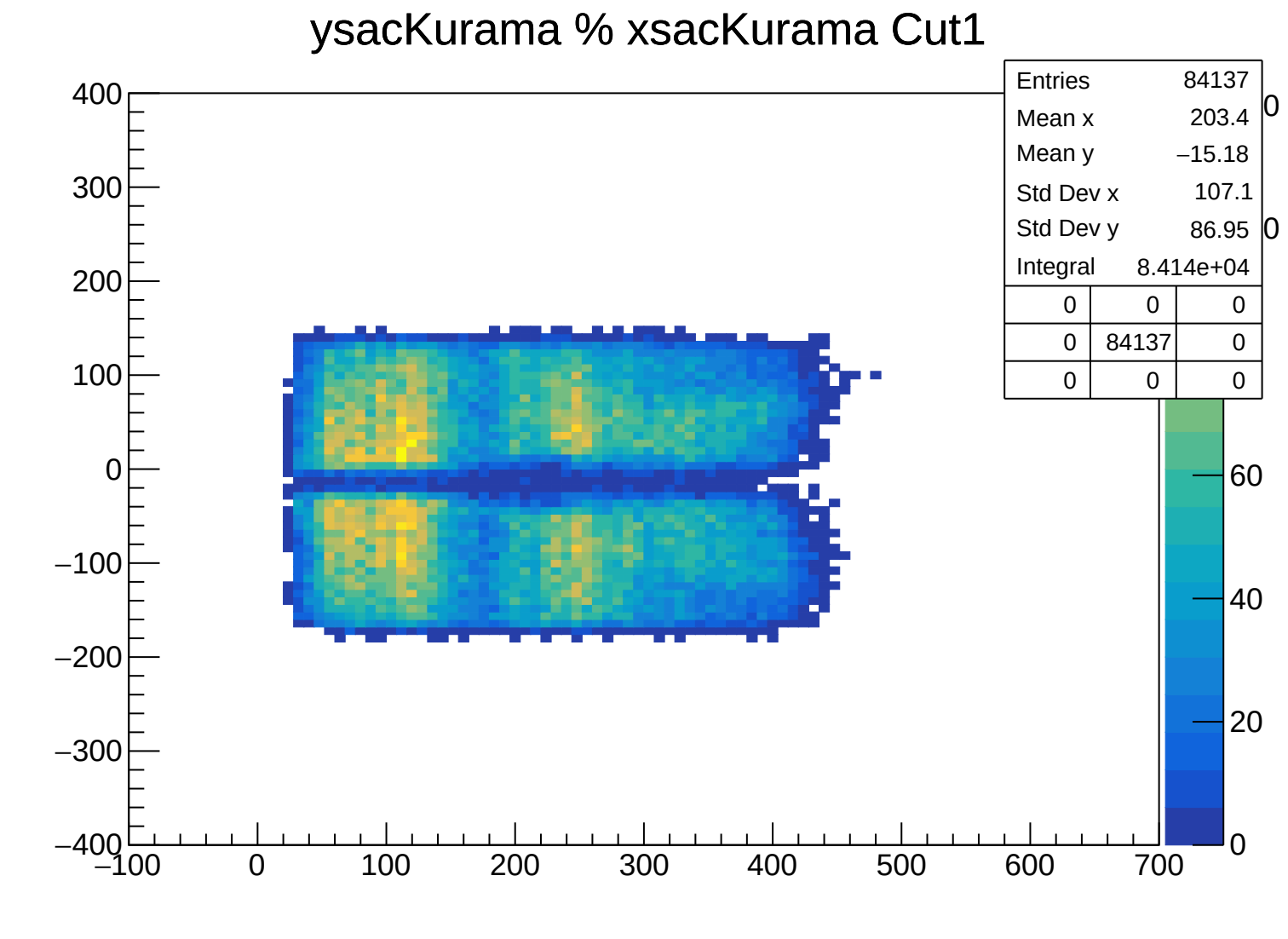

tSac Or Cut Ver 5
Entries 289
Mean −12.23
Std Dev 38.38
Underflow 104
Overflow 81
Integral 104
0
1
2
3
4
5
6
7
−100
−80
−60
−40
−20
0
20
40
60
80
100

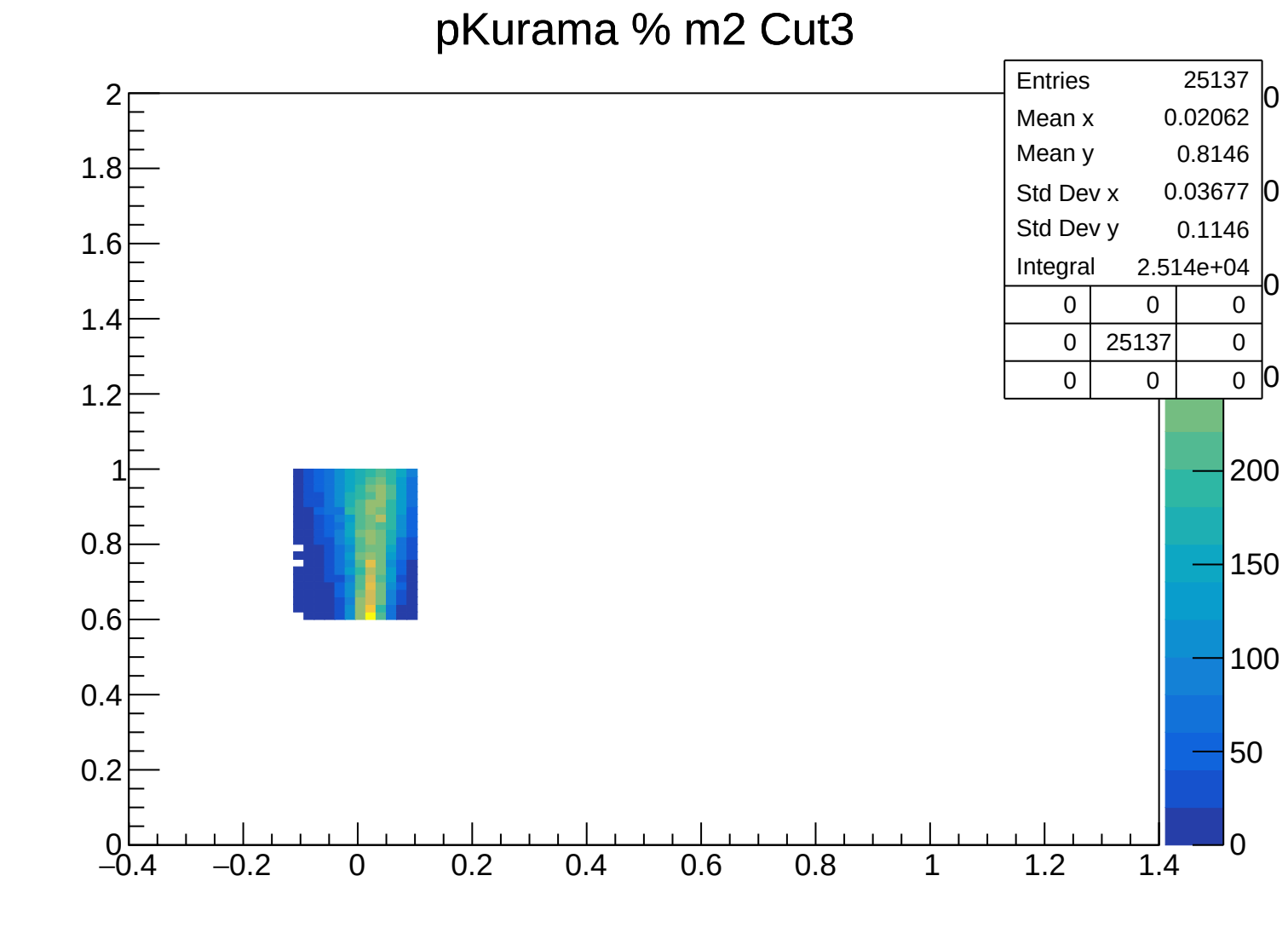

pKurama % ThetaKurama
Entries 71750
Mean x 13.97
Mean y 0.755
Std Dev x 7.703
Std Dev y 0.2233
Integral 7.152e+04
0 170 0
0 71518 62
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5
10
15
20
25
30
35
40
40
30
20
10
0

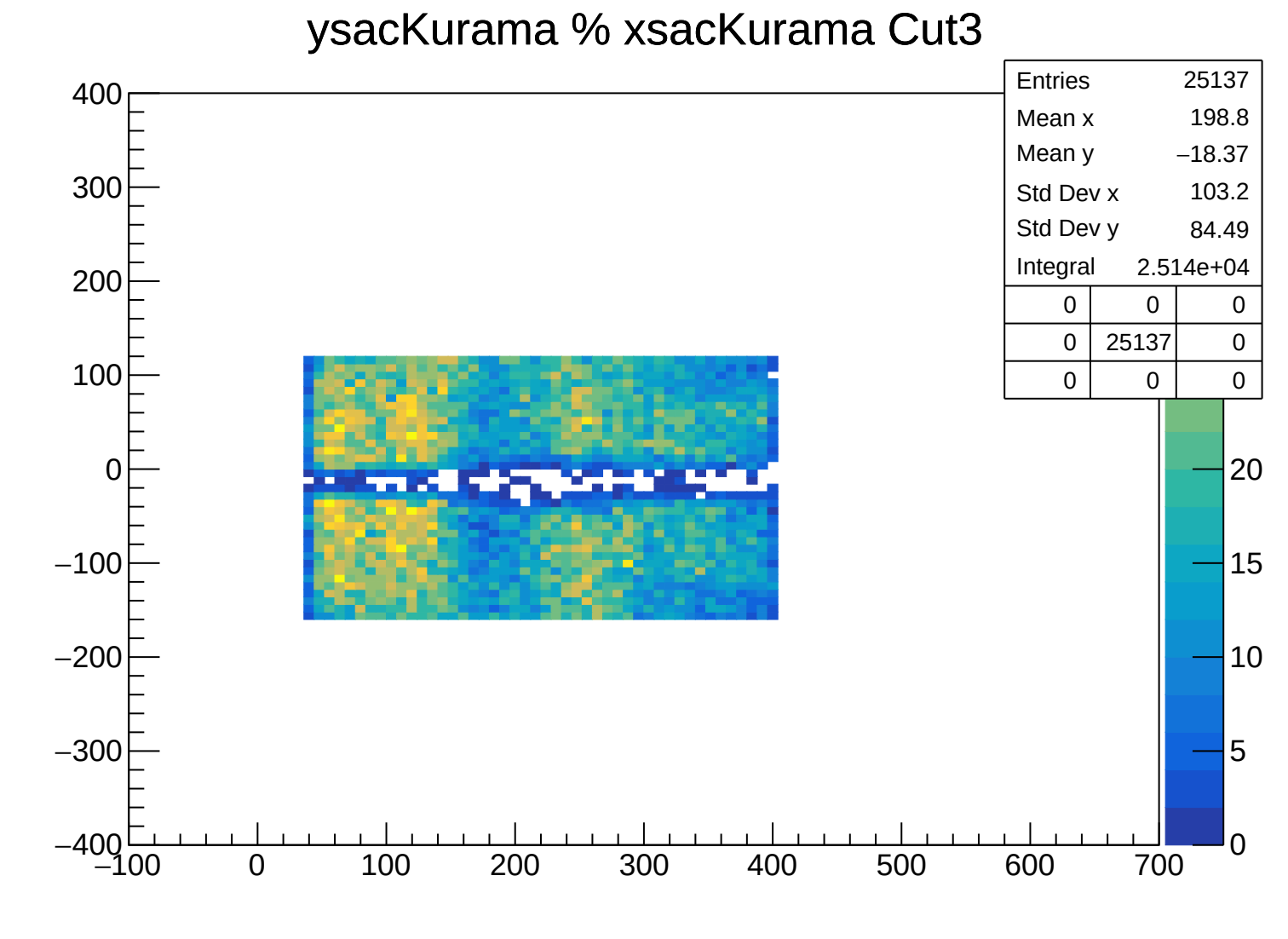

pKurama % m2
Entries 208840
Mean x 0.3219
Mean y 0.8364
Std Dev x 0.4028
Std Dev y 0.264
Integral 1.865e+05
1596 2074 3538
9266 186533 5833
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
400
200
0

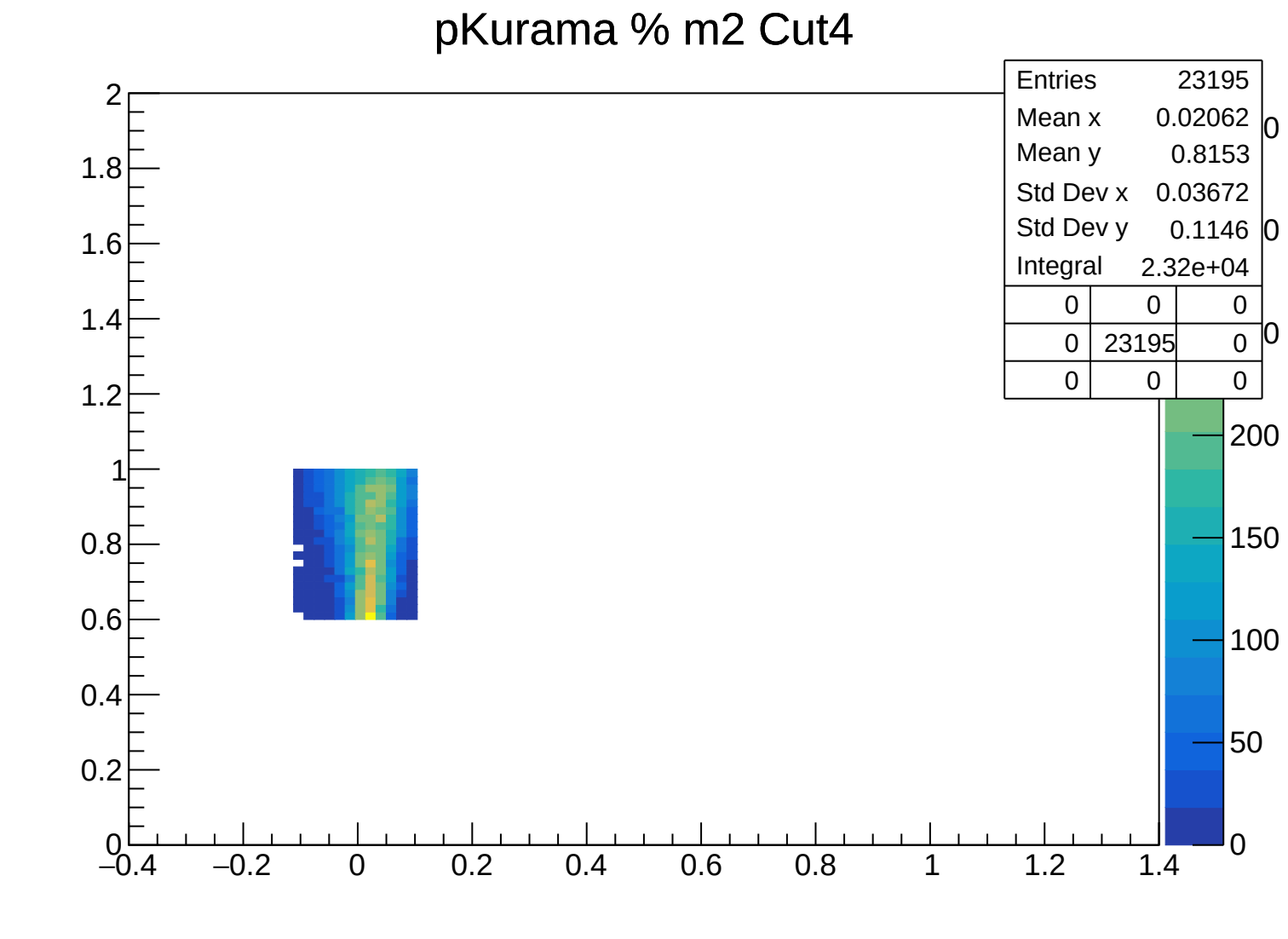

pKurama % m2 Cut1
Entries 84137
Mean x 0.3945
Mean y 0.8759
Std Dev x 0.4228
Std Dev y 0.2267
Integral 7.962e+04
2 0 7
3295 79625 1208
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

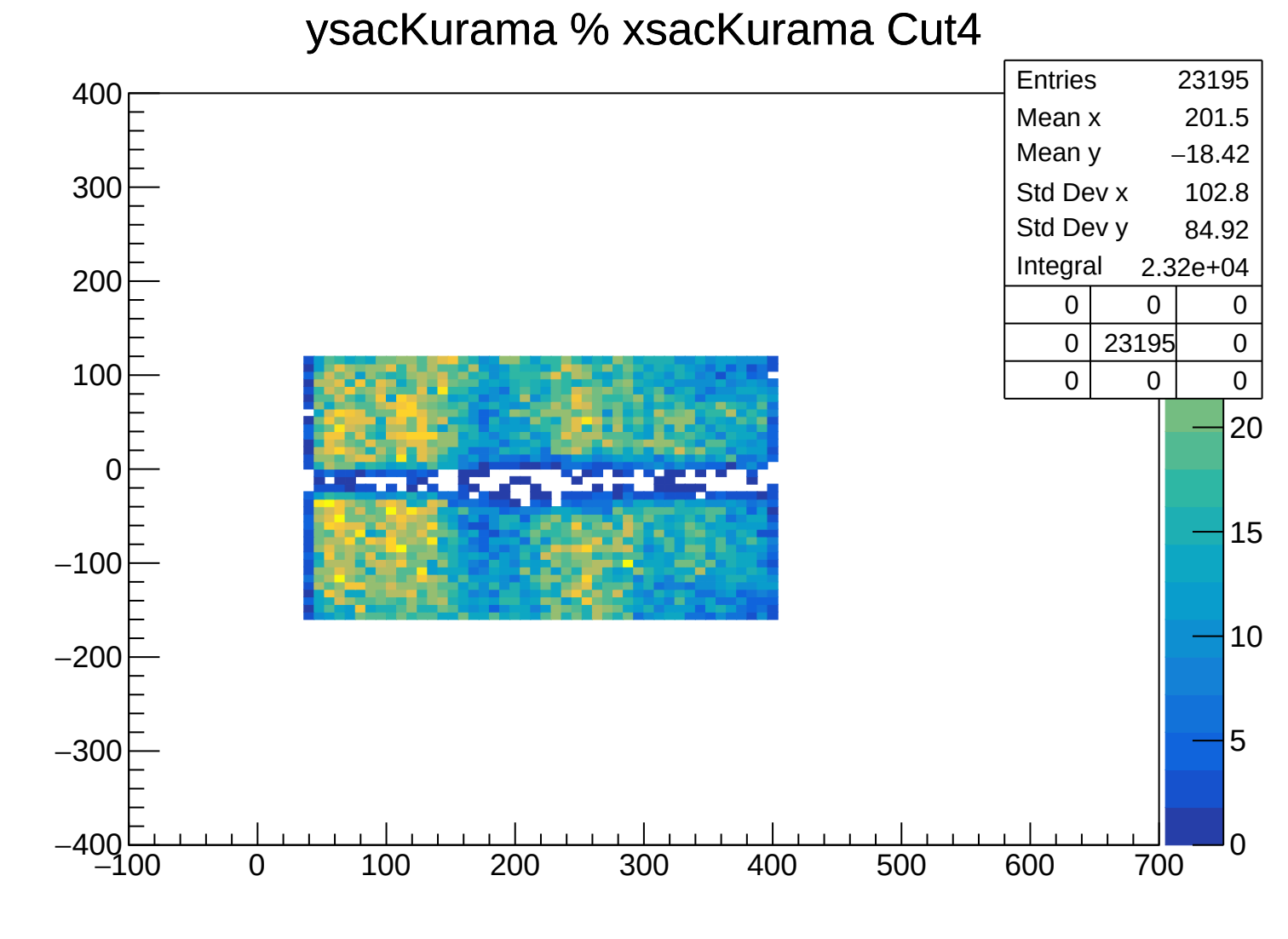

ysacKurama % xsacKurama
Entries 208840
Mean x 187.9
Mean y –15.91
Std Dev x 113.5
Std Dev y 81.79
Integral 2.088e+05
0 0 0
0 208840 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–100
0
100
200
300
400
500
600
700
300
200
100
0

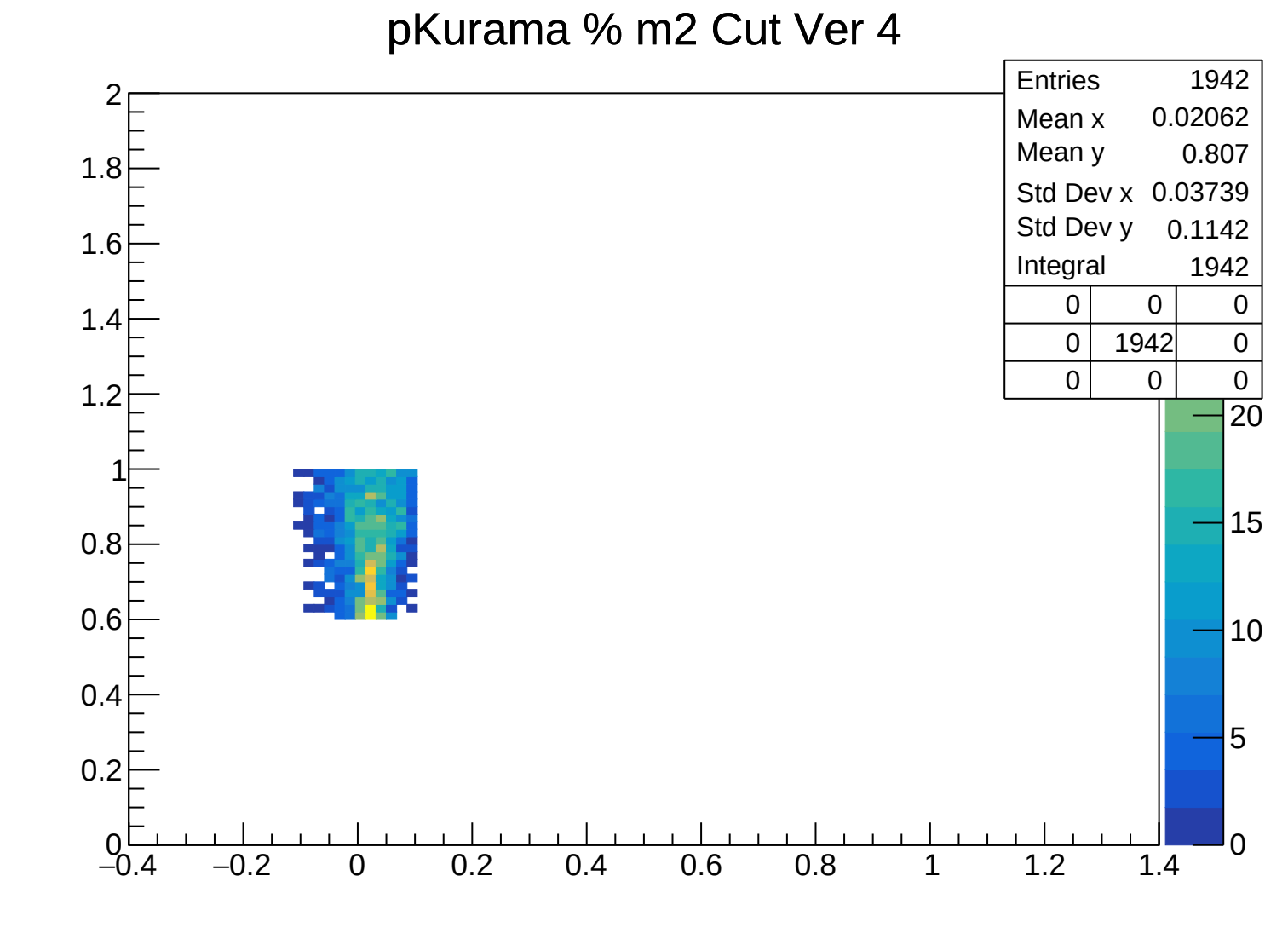

ysacKurama % xsacKurama Cut1
Entries 84137
Mean x 203.4
Mean y −15.18
Std Dev x 107.1
Std Dev y 86.95
Integral 8.414e+04
0 0 0
0 84137 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
60
40
20
0

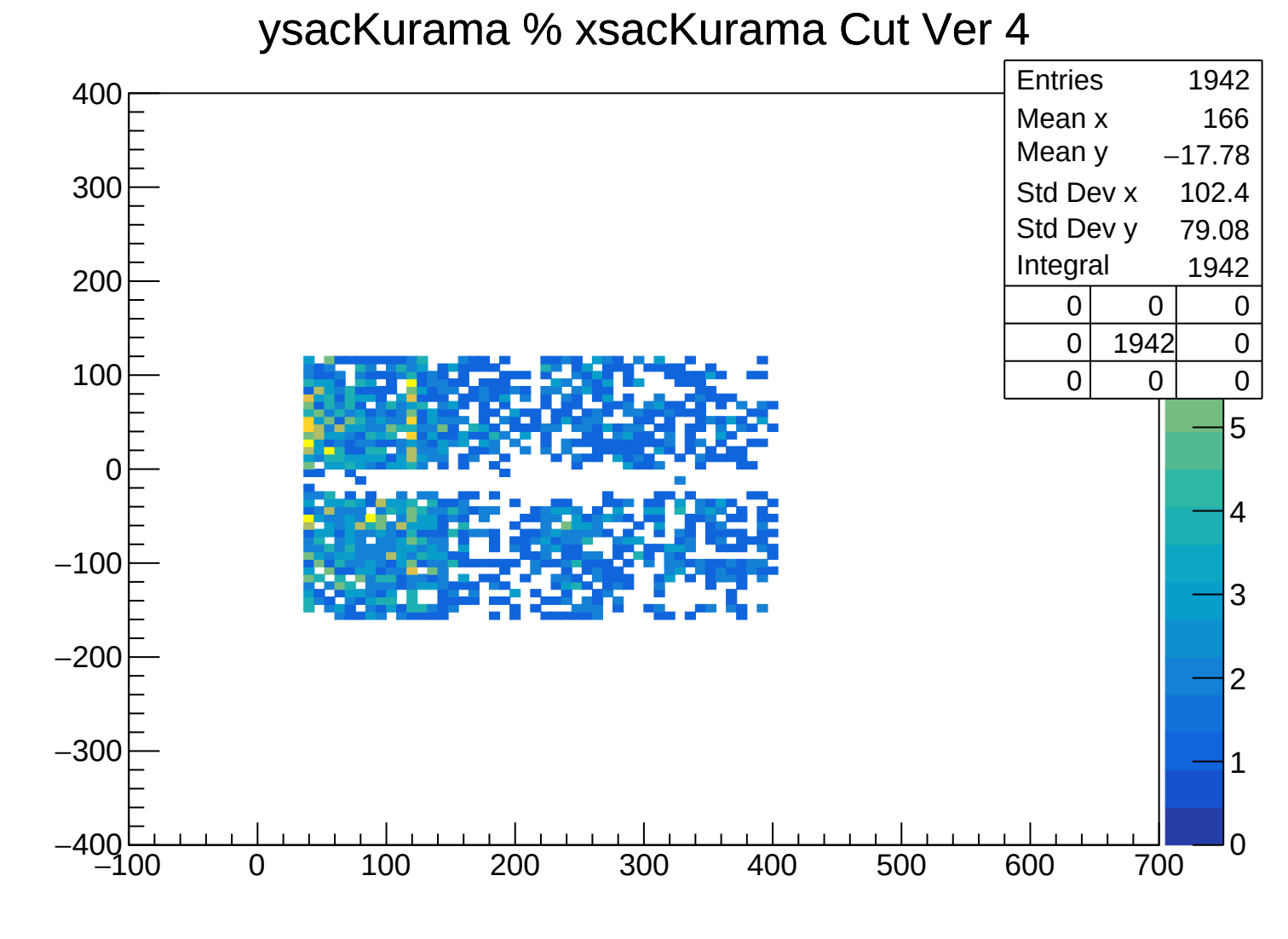

pKurama % m2 Cut3
Entries 25137
Mean x 0.02062
Mean y 0.8146
Std Dev x 0.03677
Std Dev y 0.1146
Integral 2.514e+04
0 0 0
0 25137 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
200
150
100
50
0

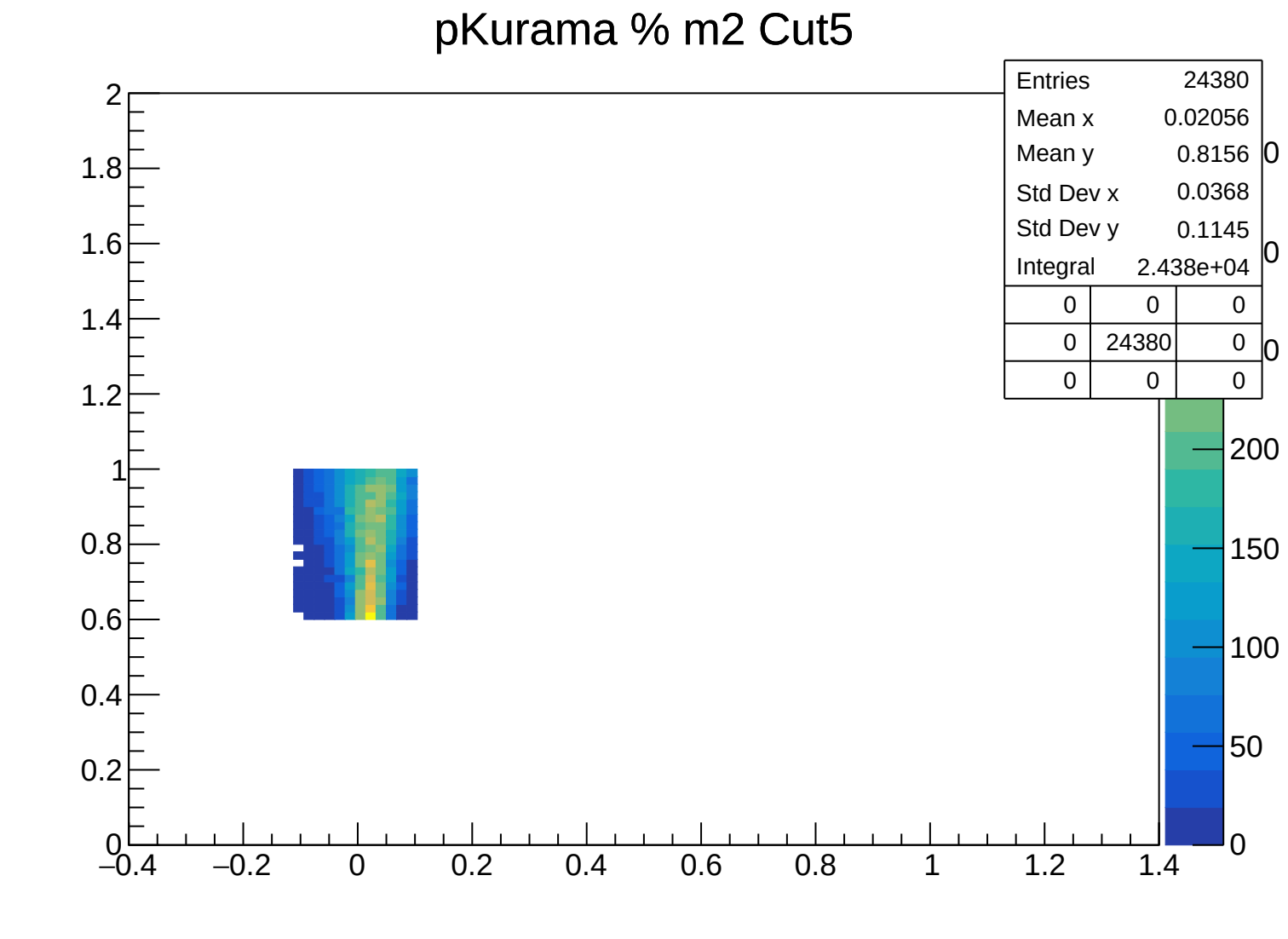

ysacKurama % xsacKurama Cut3
Entries 25137
Mean x 198.8
Mean y −18.37
Std Dev x 103.2
Std Dev y 84.49
Integral 2.514e+04
0 0 0
0 25137 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
20
15
10
5
0

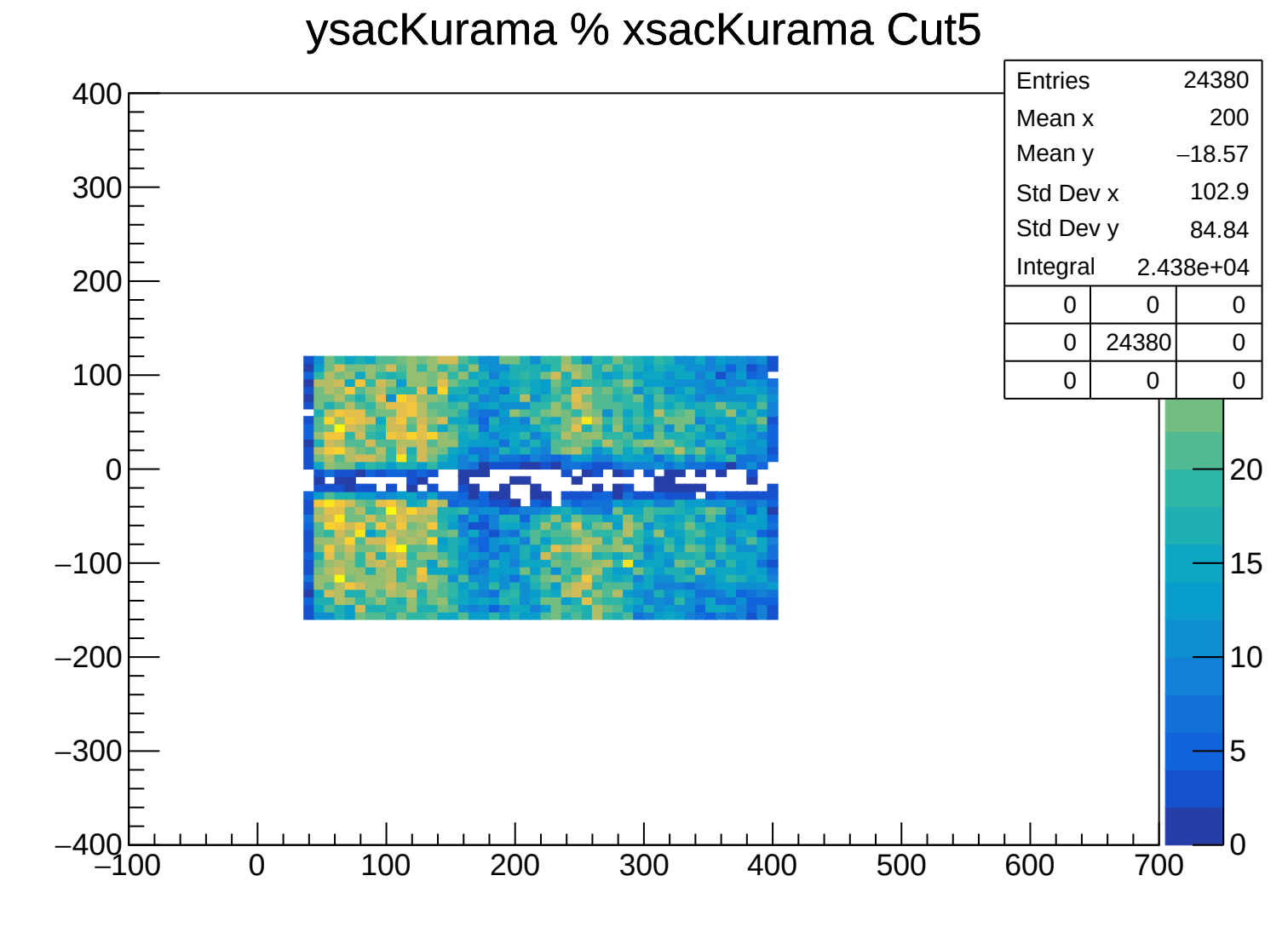

pKurama % m2 Cut4
Entries 23195
Mean x 0.02062
Mean y 0.8153
Std Dev x 0.03672
Std Dev y 0.1146
Integral 2.32e+04
0 0 0
0 23195 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
200
150
100
50
0

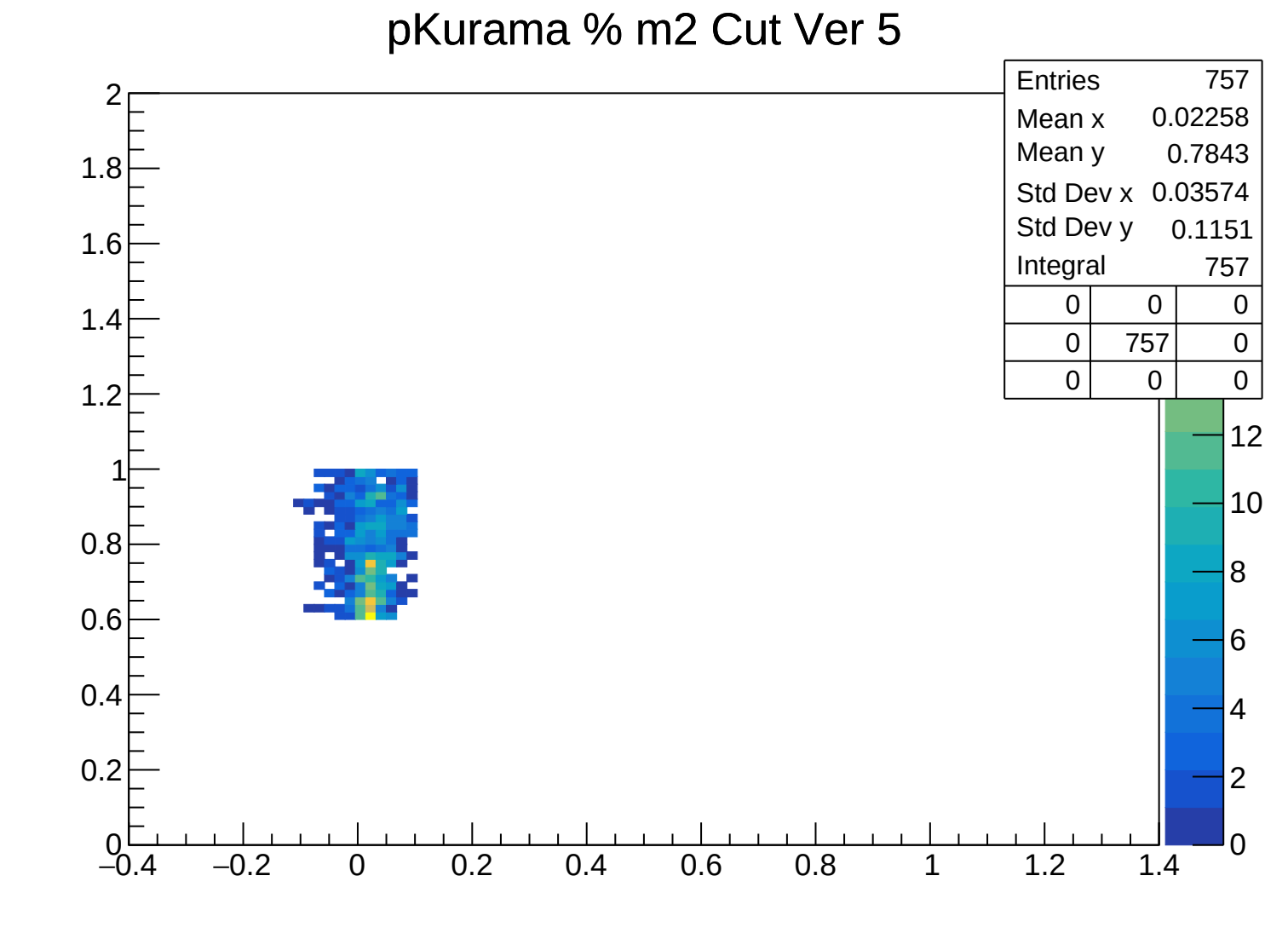

ysacKurama % xsacKurama Cut4
Entries 23195
Mean x 201.5
Mean y −18.42
Std Dev x 102.8
Std Dev y 84.92
Integral 2.32e+04
0 0 0
0 23195 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
20
15
10
5
0

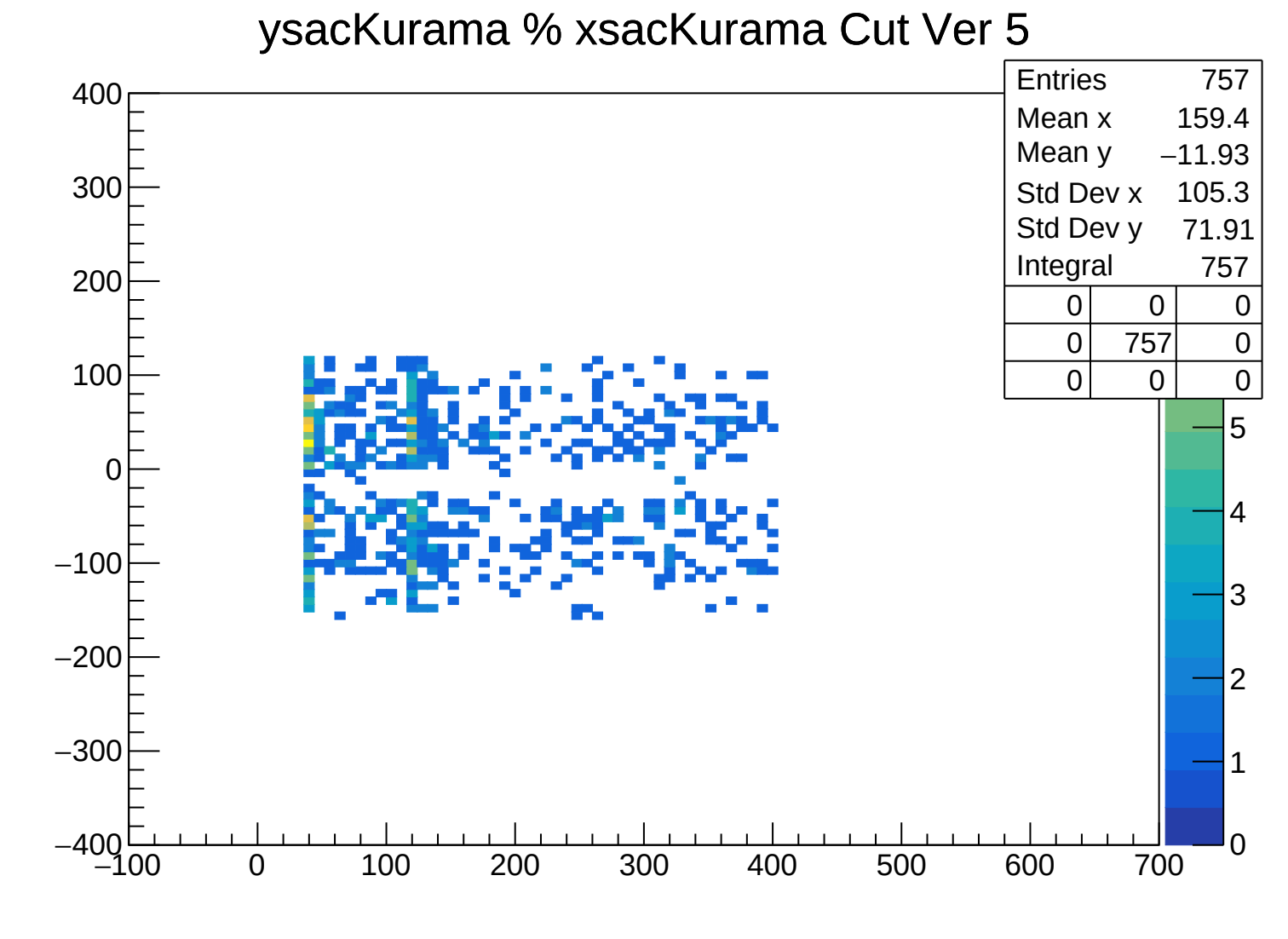

pKurama % m2 Cut Ver 4
Entries 1942
Mean x 0.02062
Mean y 0.807
Std Dev x 0.03739
Std Dev y 0.1142
Integral 1942
0 0 0
0 1942 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
20
15
10
5
0


ysacKurama % xsacKurama Cut Ver 4
Entries 1942
Mean x 166
Mean y −17.78
Std Dev x 102.4
Std Dev y 79.08
Integral 1942
0 0 0
0 1942 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
5
4
3
2
1
0


pKurama % m2 Cut5
Entries 24380
Mean x 0.02056
Mean y 0.8156
Std Dev x 0.0368
Std Dev y 0.1145
Integral 2.438e+04
0 0 0
0 24380 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
200
150
100
50
0


ysacKurama % xsacKurama Cut5
Entries 24380
Mean x 200
Mean y −18.57
Std Dev x 102.9
Std Dev y 84.84
Integral 2.438e+04
0 0 0
0 24380 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
20
15
10
5
0


pKurama % m2 Cut Ver 5
Entries 757
Mean x 0.02258
Mean y 0.7843
Std Dev x 0.03574
Std Dev y 0.1151
Integral 757
0 0 0
0 757 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
12
10
8
6
4
2
0


ysacKurama % xsacKurama Cut Ver 5
Entries 757
Mean x 159.4
Mean y −11.93
Std Dev x 105.3
Std Dev y 71.91
Integral 757
0 0 0
0 757 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−100
0
100
200
300
400
500
600
700
5
4
3
2
1
0