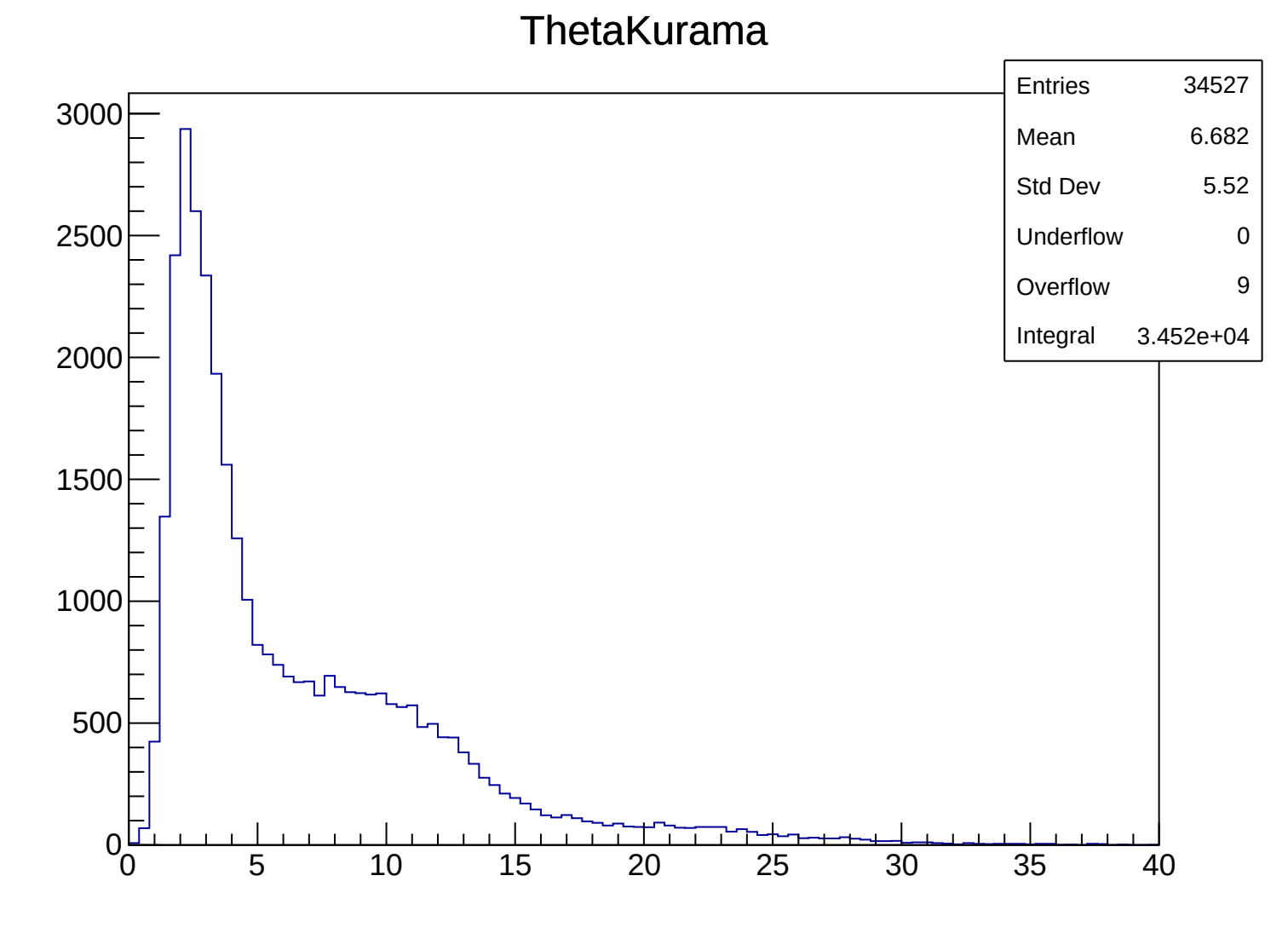
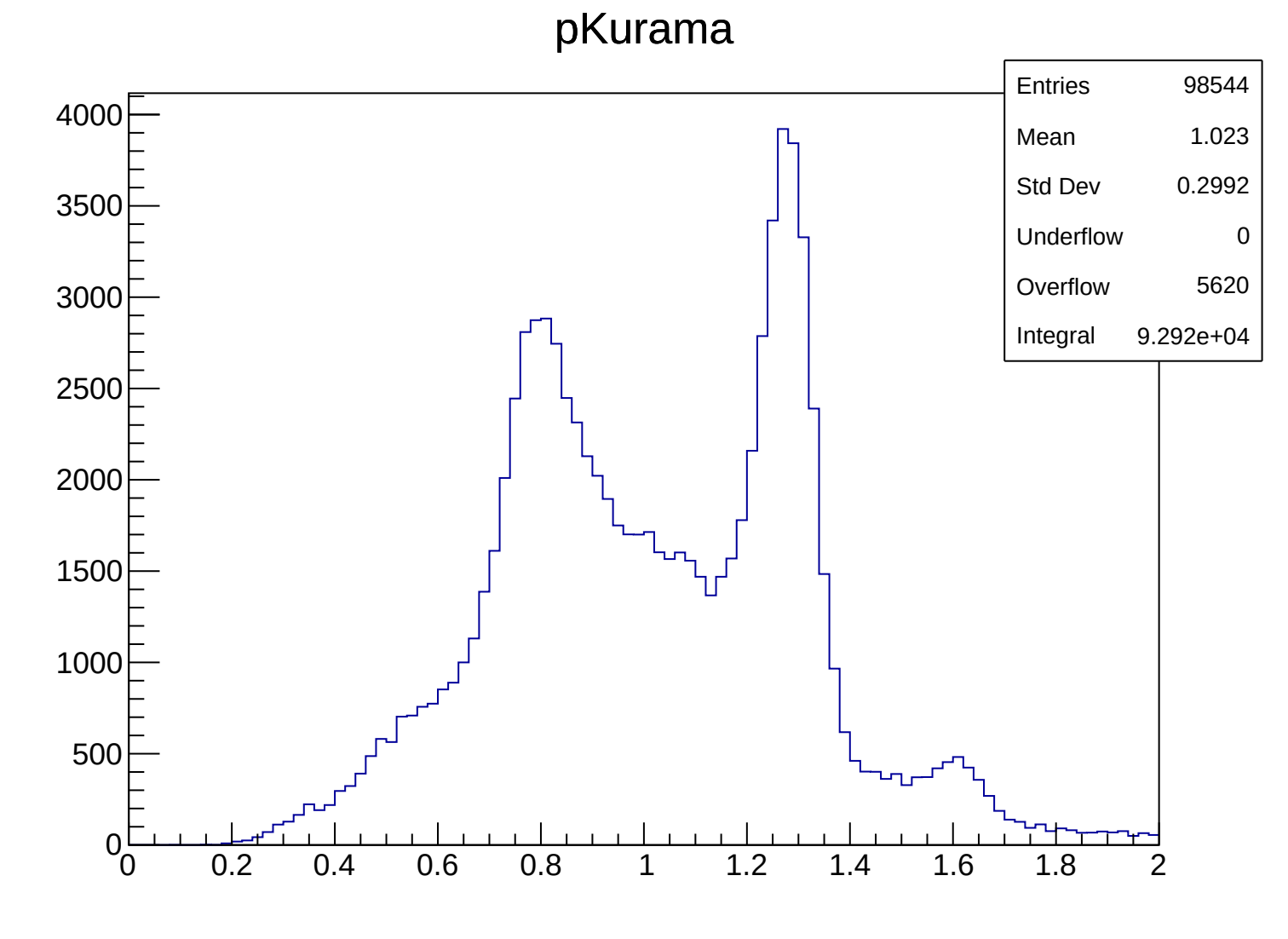
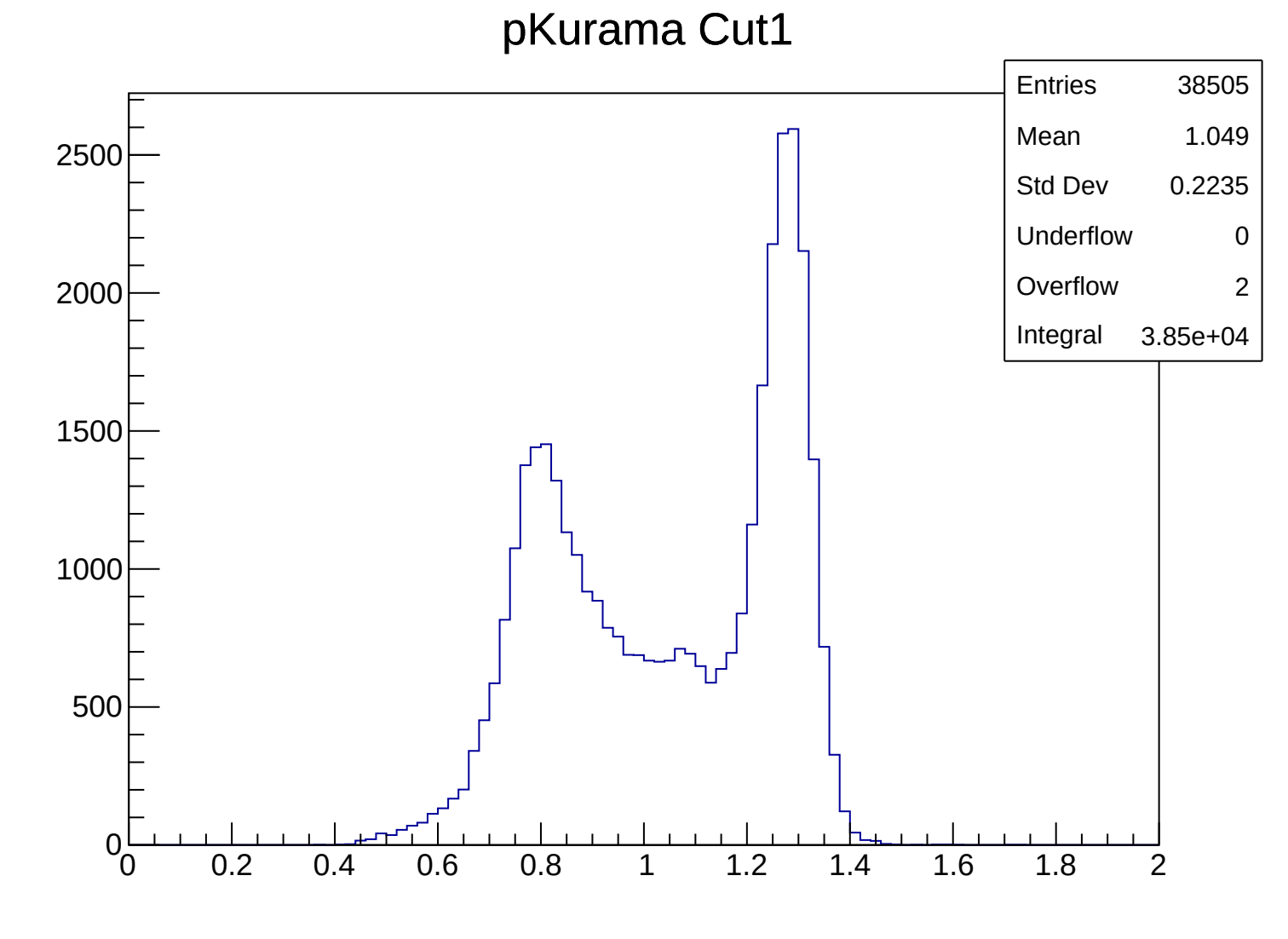
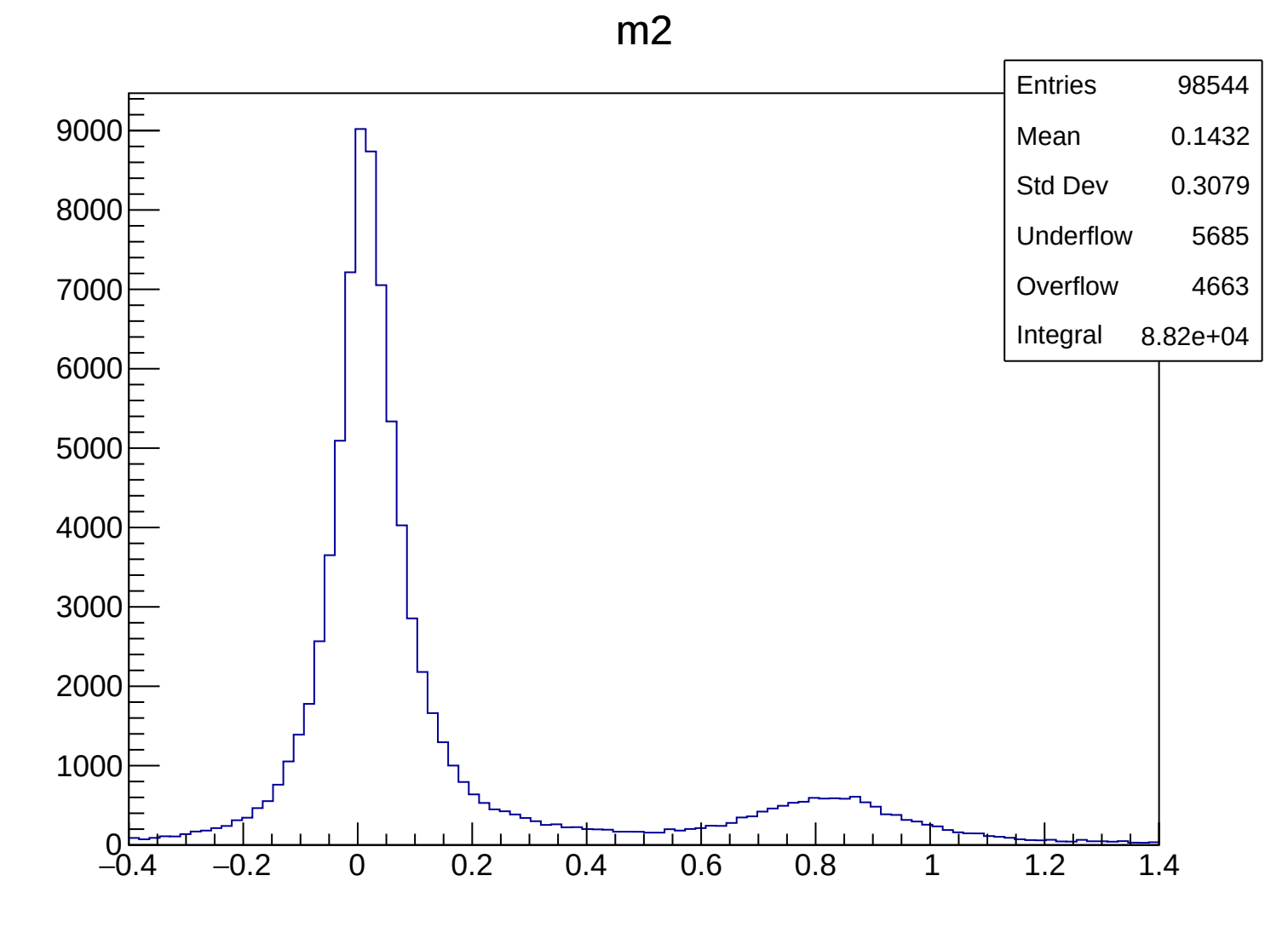
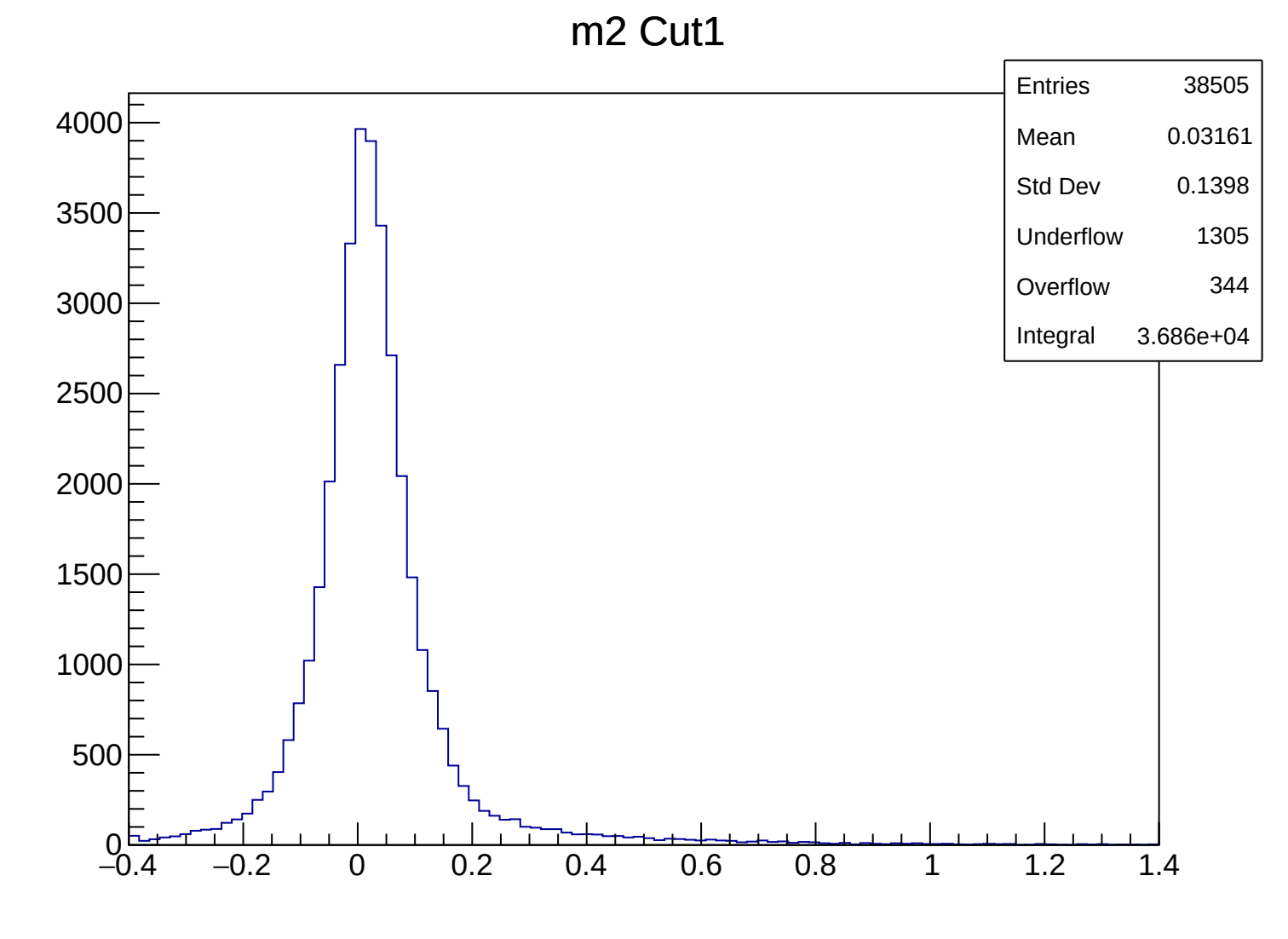
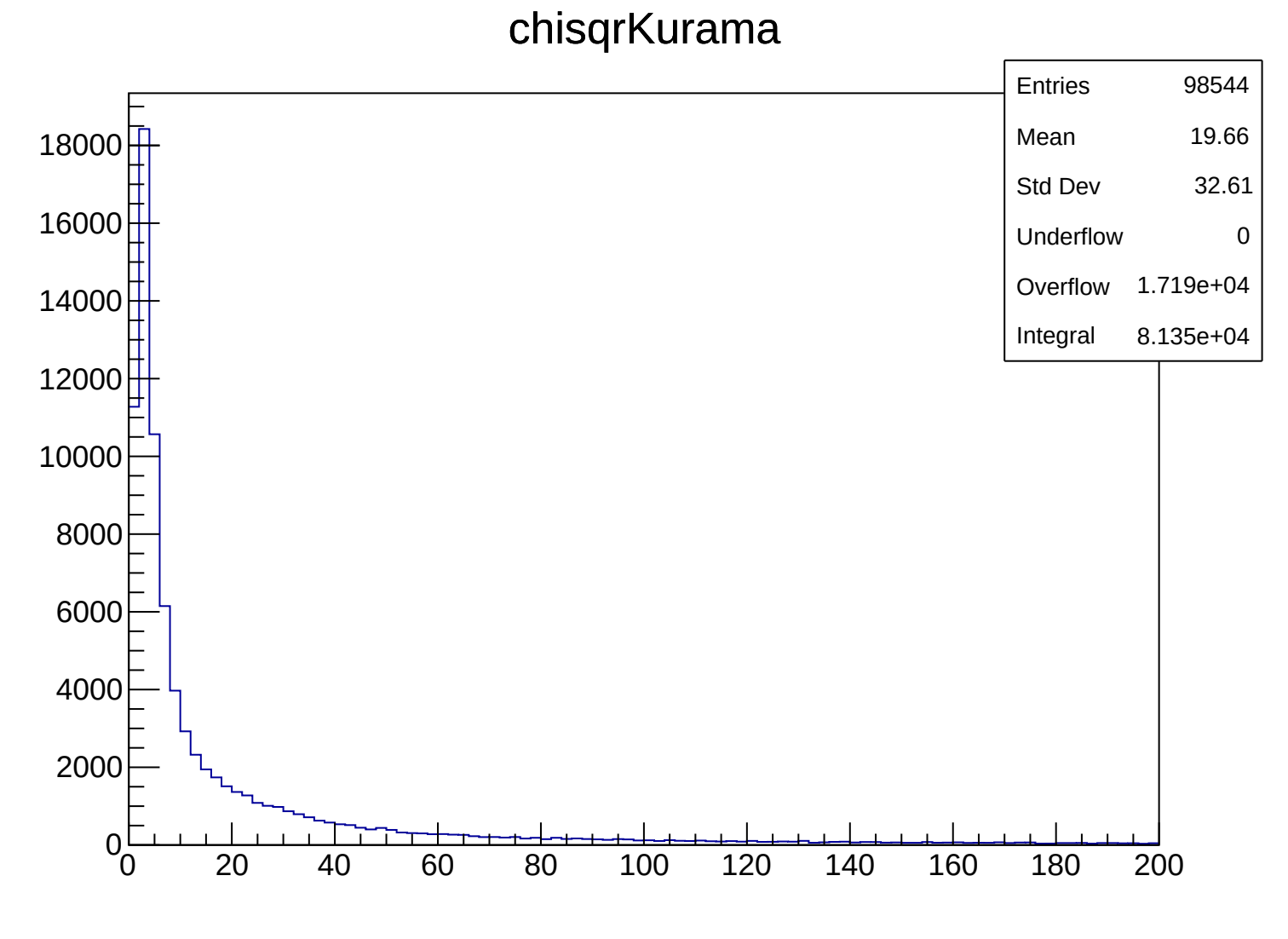

ThetaKurama
Entries 34527
Mean 6.682
Std Dev 5.52
Underflow 0
Overflow 9
Integral 3.452e+04
3000
2500
2000
1500
1000
500
0
0
5
10
15
20
25
30
35
40

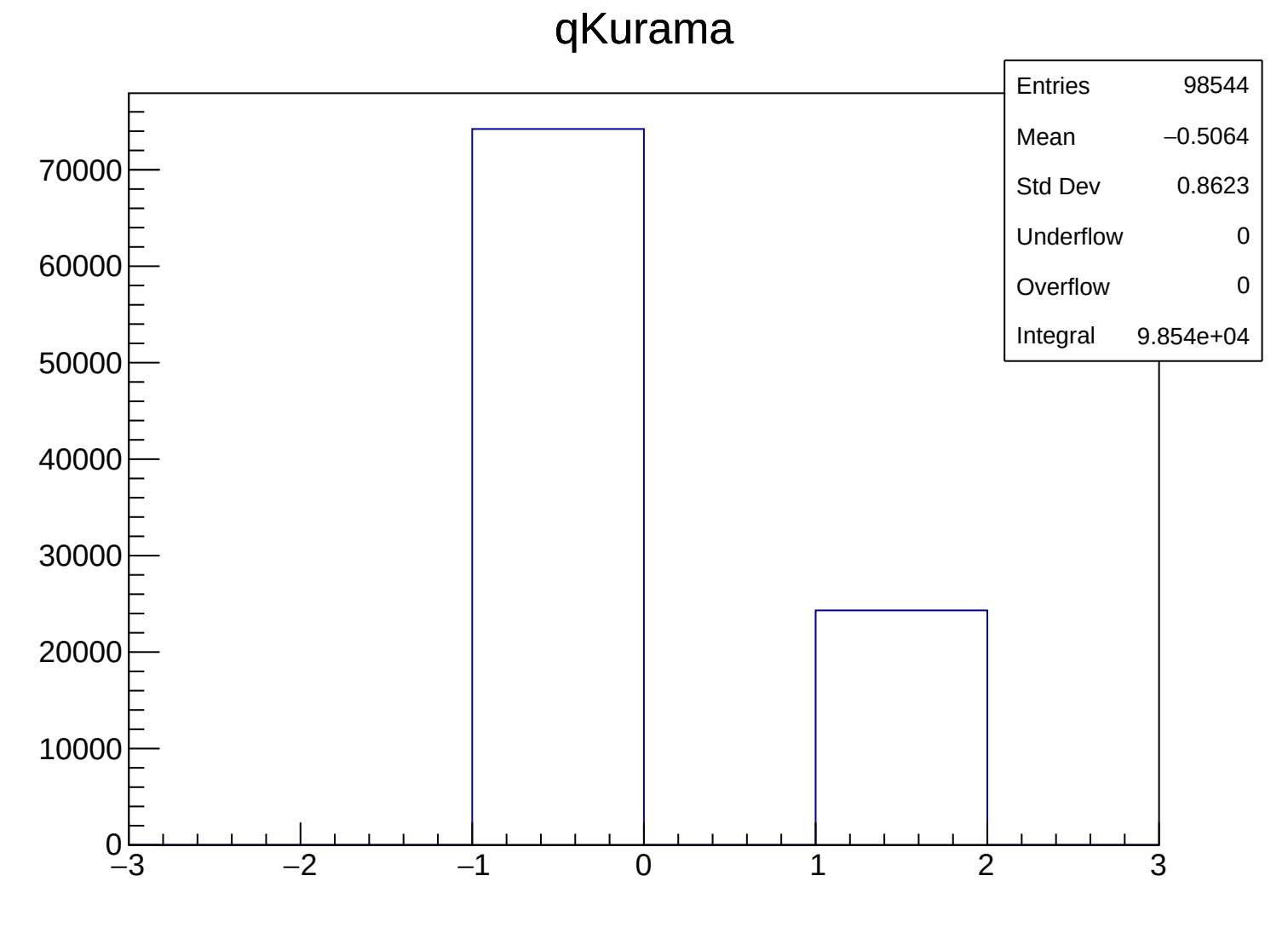

pKurama
Entries 98544
Mean 1.023
Std Dev 0.2992
Underflow 0
Overflow 5620
Integral 9.292e+04
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

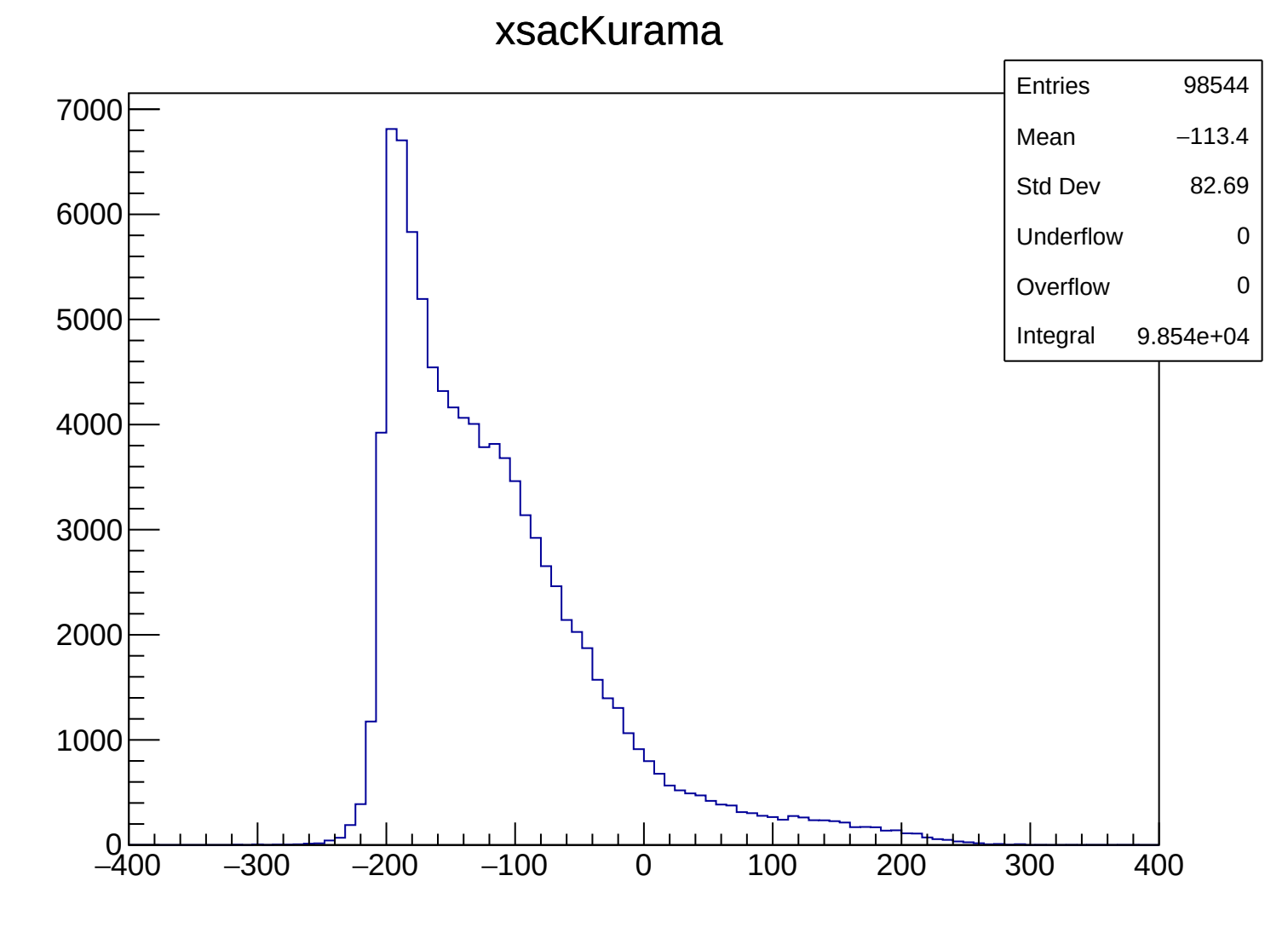

pKurama Cut1
Entries 38505
Mean 1.049
Std Dev 0.2235
Underflow 0
Overflow 2
Integral 3.85e+04
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

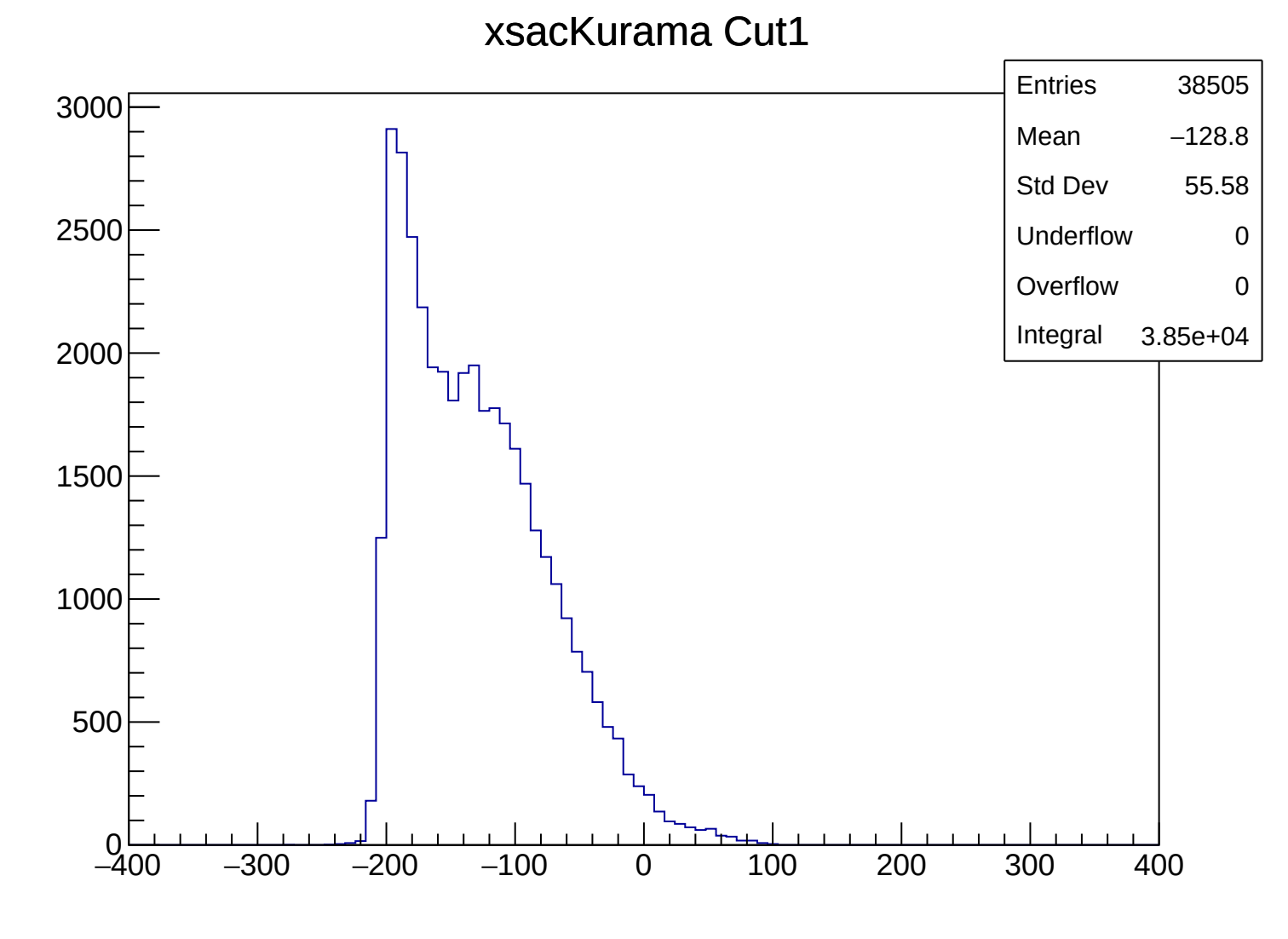

m2
Entries 98544
Mean 0.1432
Std Dev 0.3079
Underflow 5685
Overflow 4663
Integral 8.82e+04
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

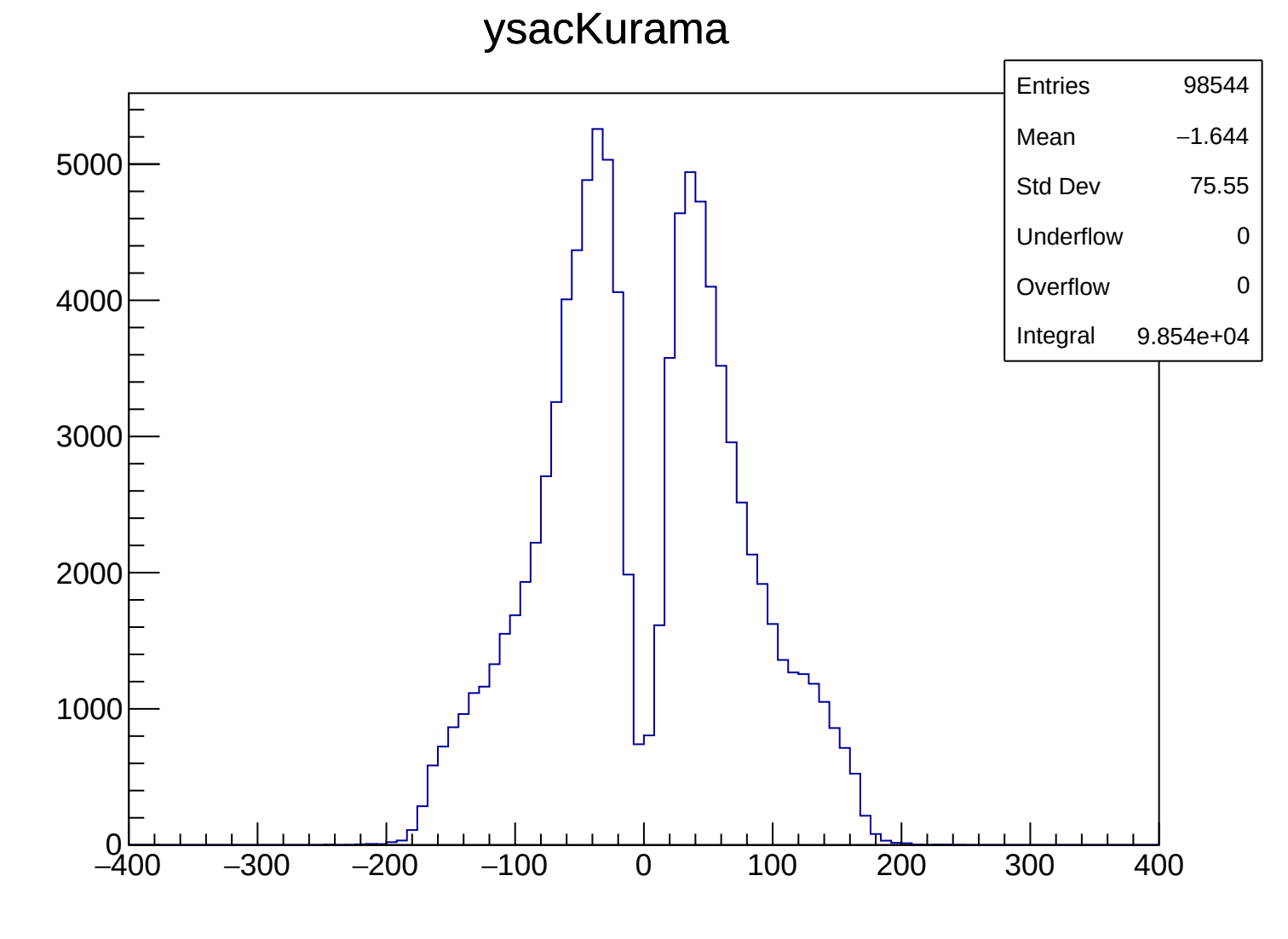

m2 Cut1
Entries 38505
Mean 0.03161
Std Dev 0.1398
Underflow 1305
Overflow 344
Integral 3.686e+04
4000
3500
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

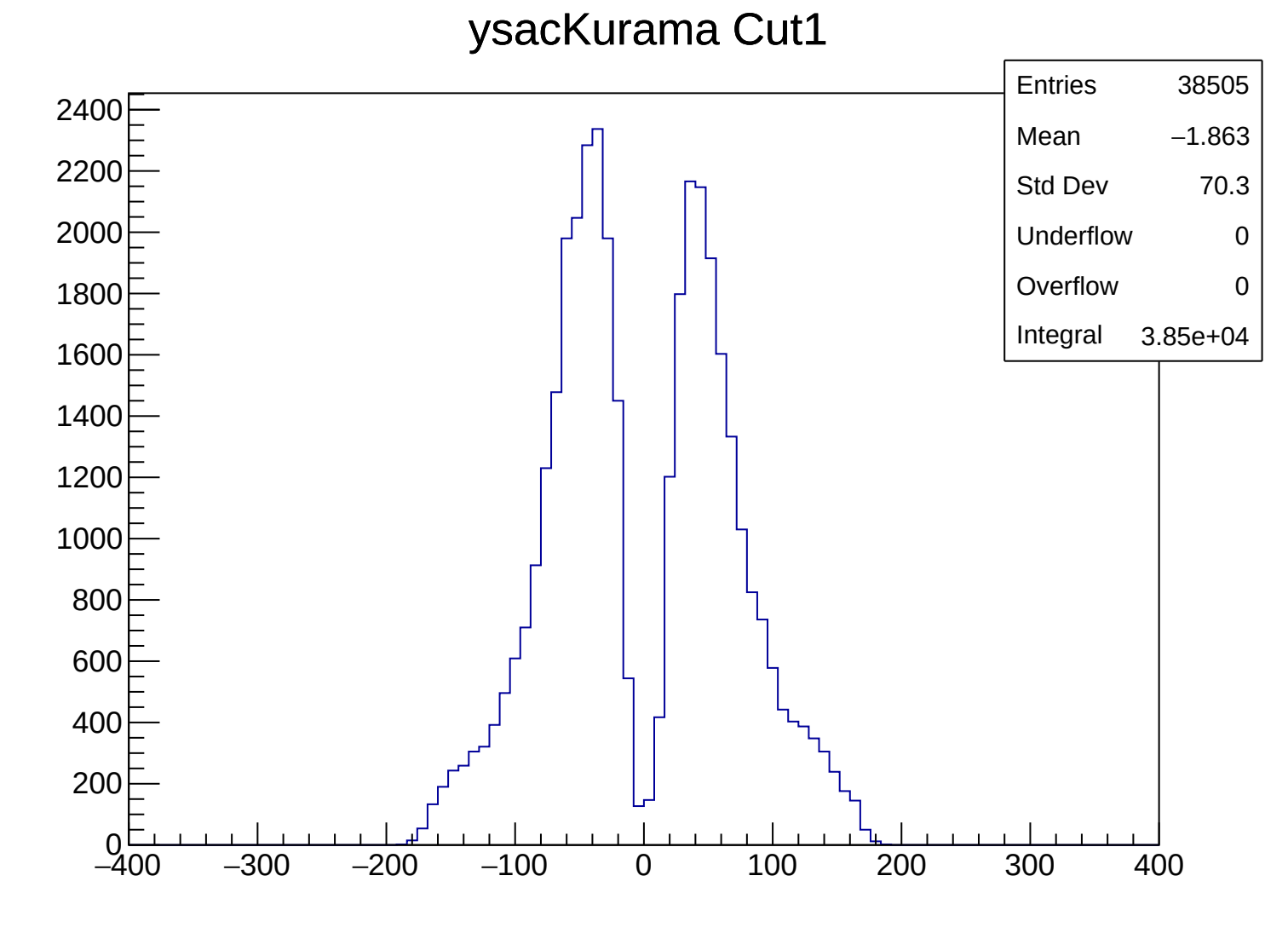

chisqrKurama
Entries 98544
Mean 19.66
Std Dev 32.61
Underflow 0
Overflow 1.719e+04
Integral 8.135e+04
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200

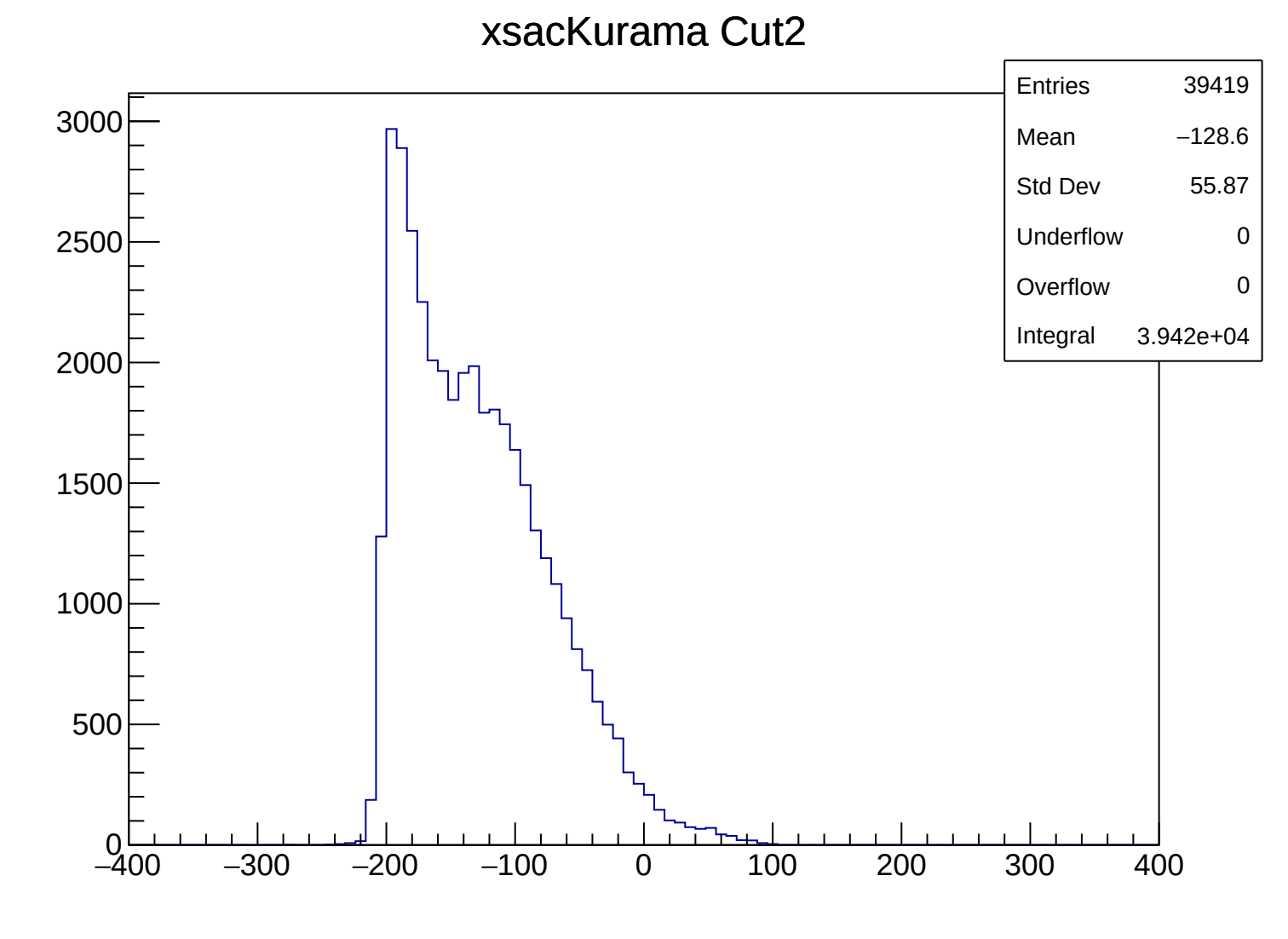

qKurama
Entries 98544
Mean −0.5064
Std Dev 0.8623
Underflow 0
Overflow 0
Integral 9.854e+04
70000
60000
50000
40000
30000
20000
10000
0
−3
−2
−1
0
1
2
3

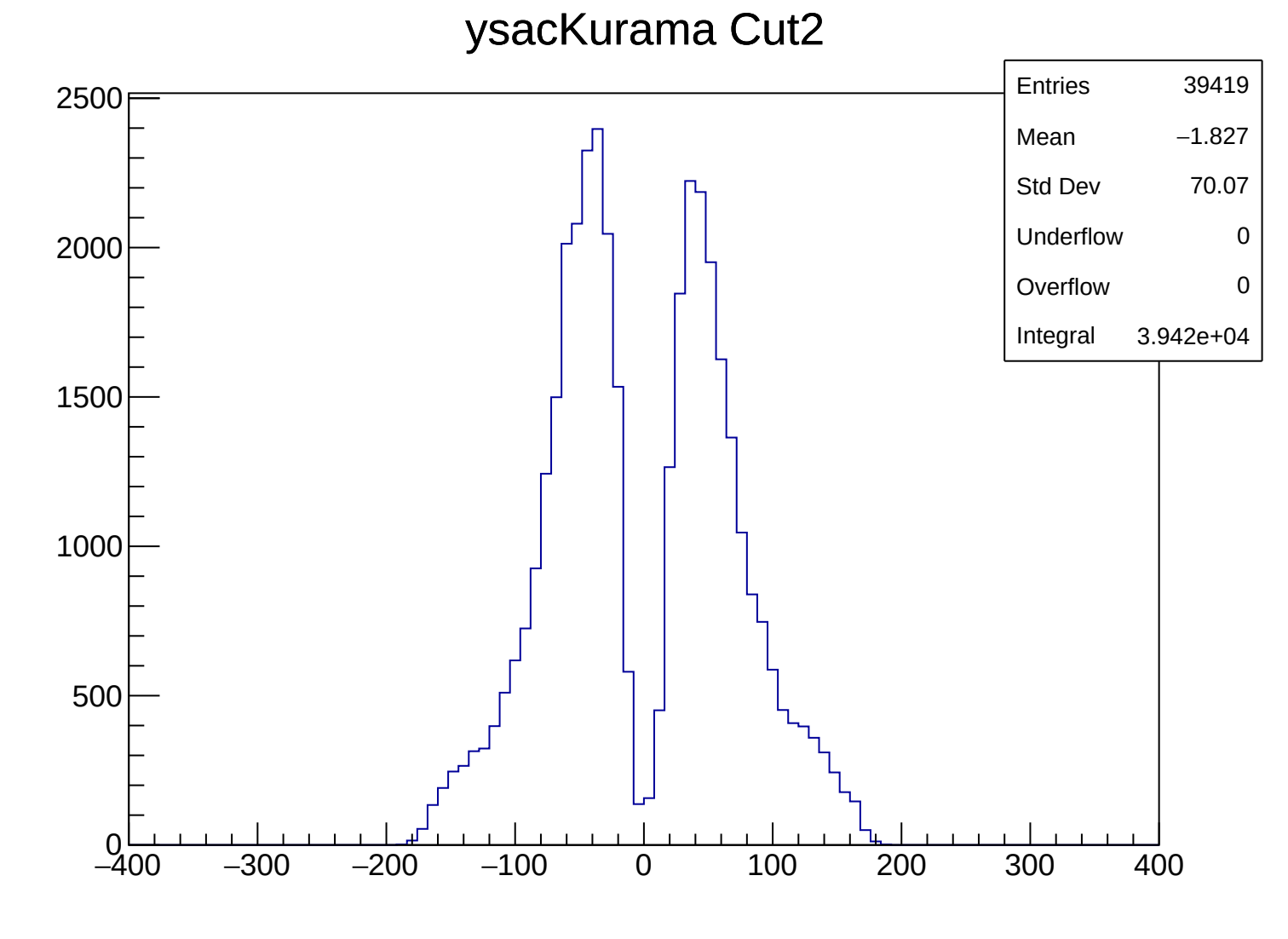

xsacKurama
Entries 98544
Mean −113.4
Std Dev 82.69
Underflow 0
Overflow 0
Integral 9.854e+04
7000
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

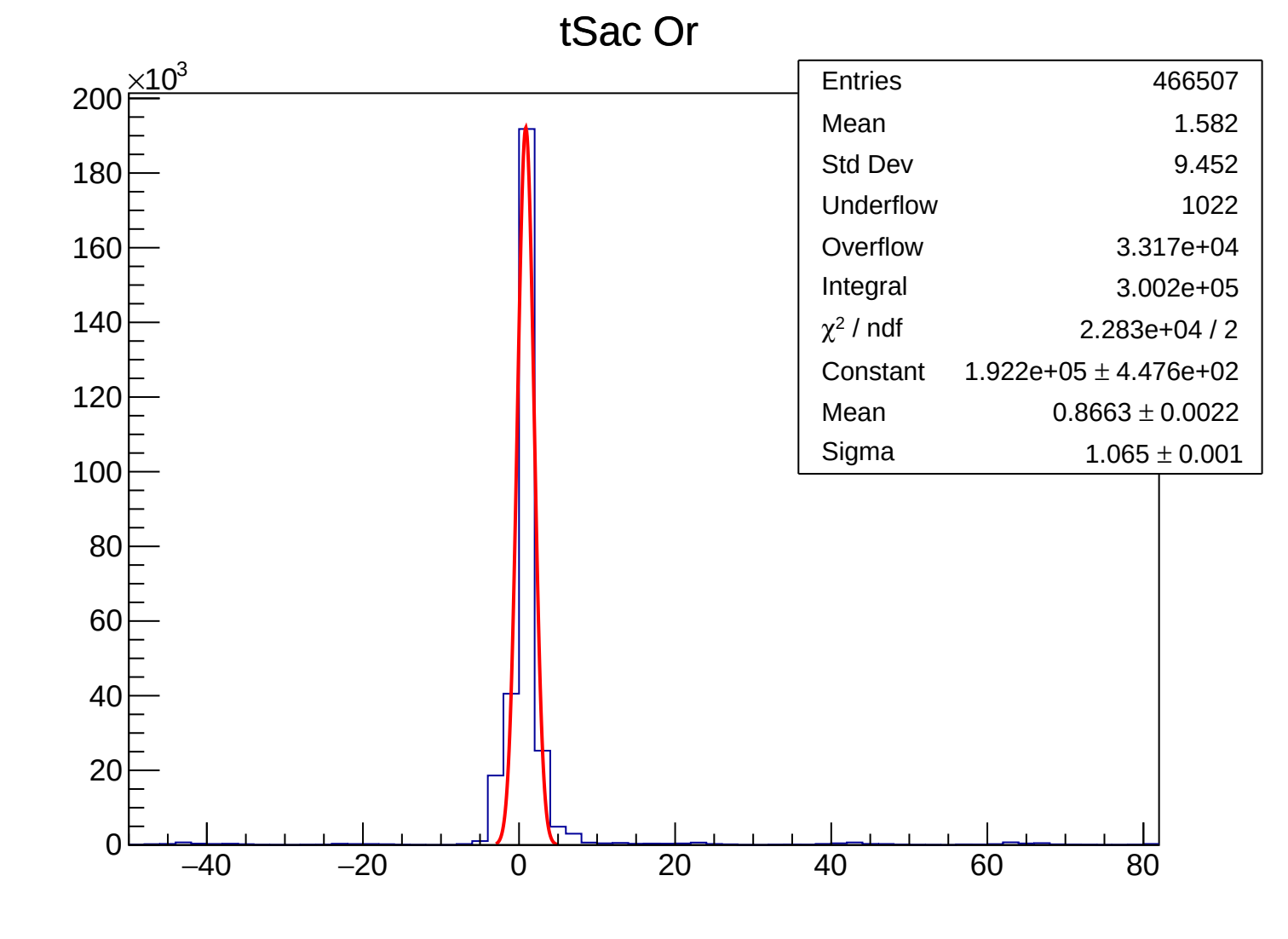

xsacKurama Cut1
Entries 38505
Mean −128.8
Std Dev 55.58
Underflow 0
Overflow 0
Integral 3.85e+04
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

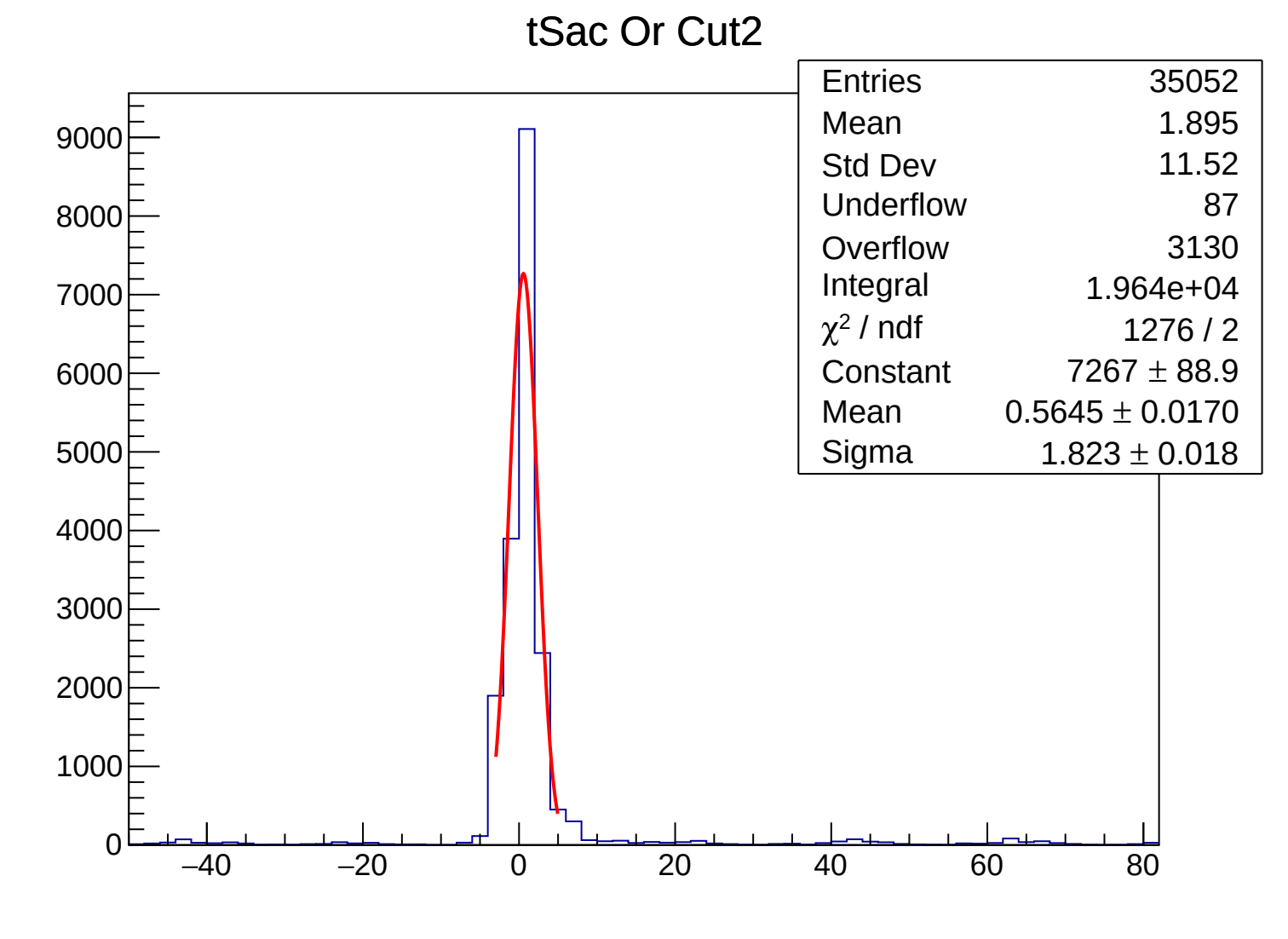

ysacKurama
Entries 98544
Mean −1.644
Std Dev 75.55
Underflow 0
Overflow 0
Integral 9.854e+04
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

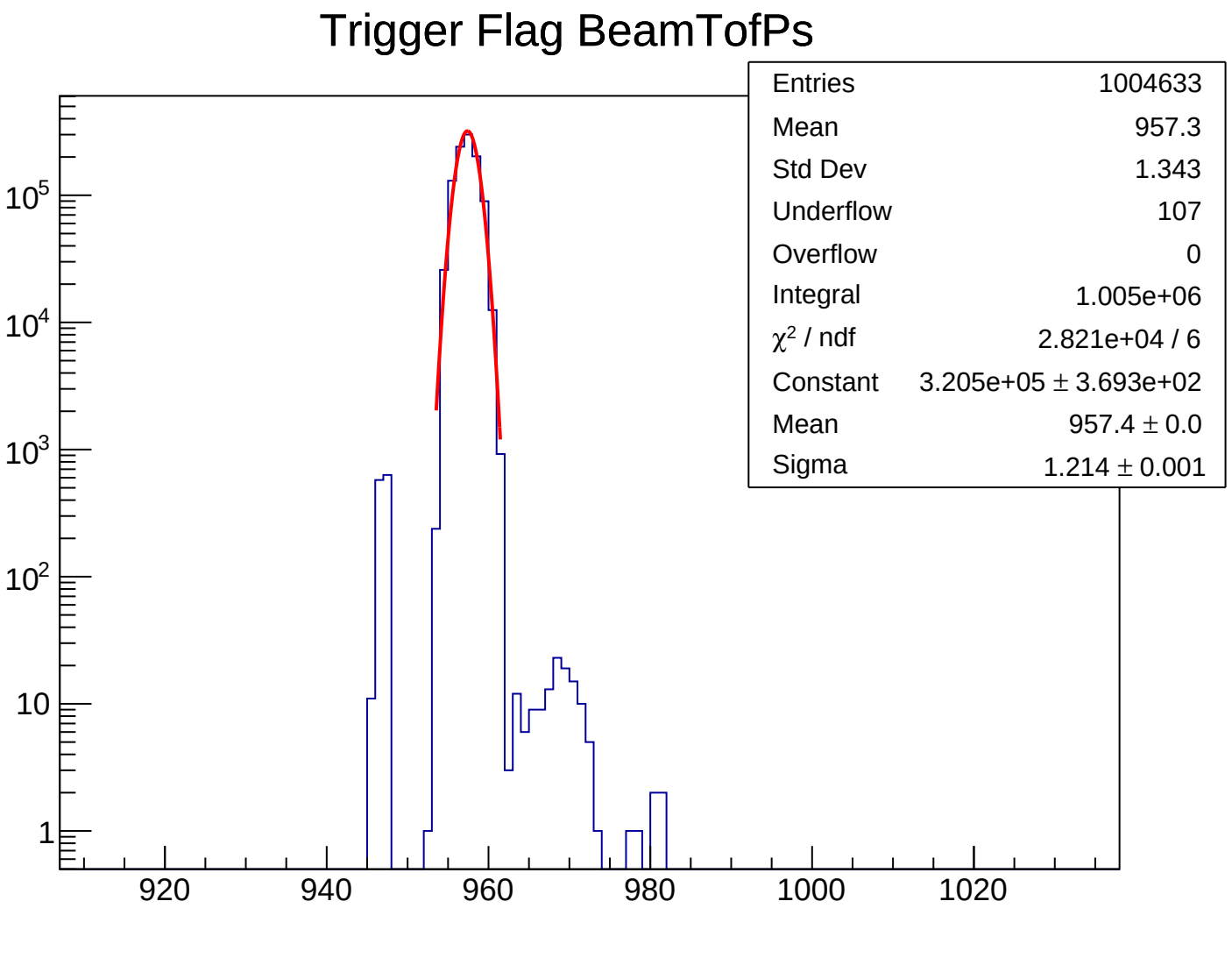

ysacKurama Cut1
Entries 38505
Mean −1.863
Std Dev 70.3
Underflow 0
Overflow 0
Integral 3.85e+04
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

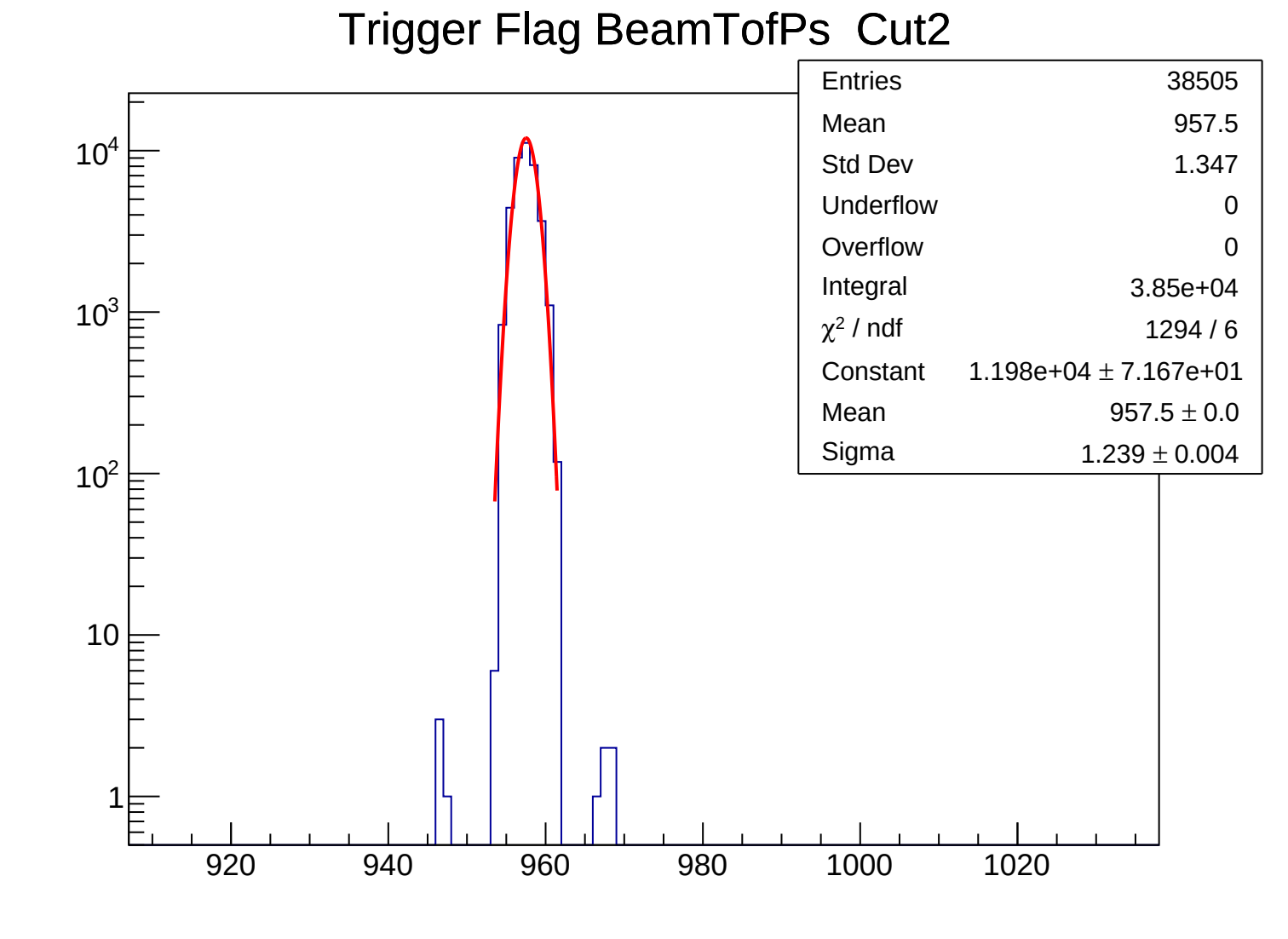

xsacKurama Cut2
Entries 39419
Mean −128.6
Std Dev 55.87
Underflow 0
Overflow 0
Integral 3.942e+04
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

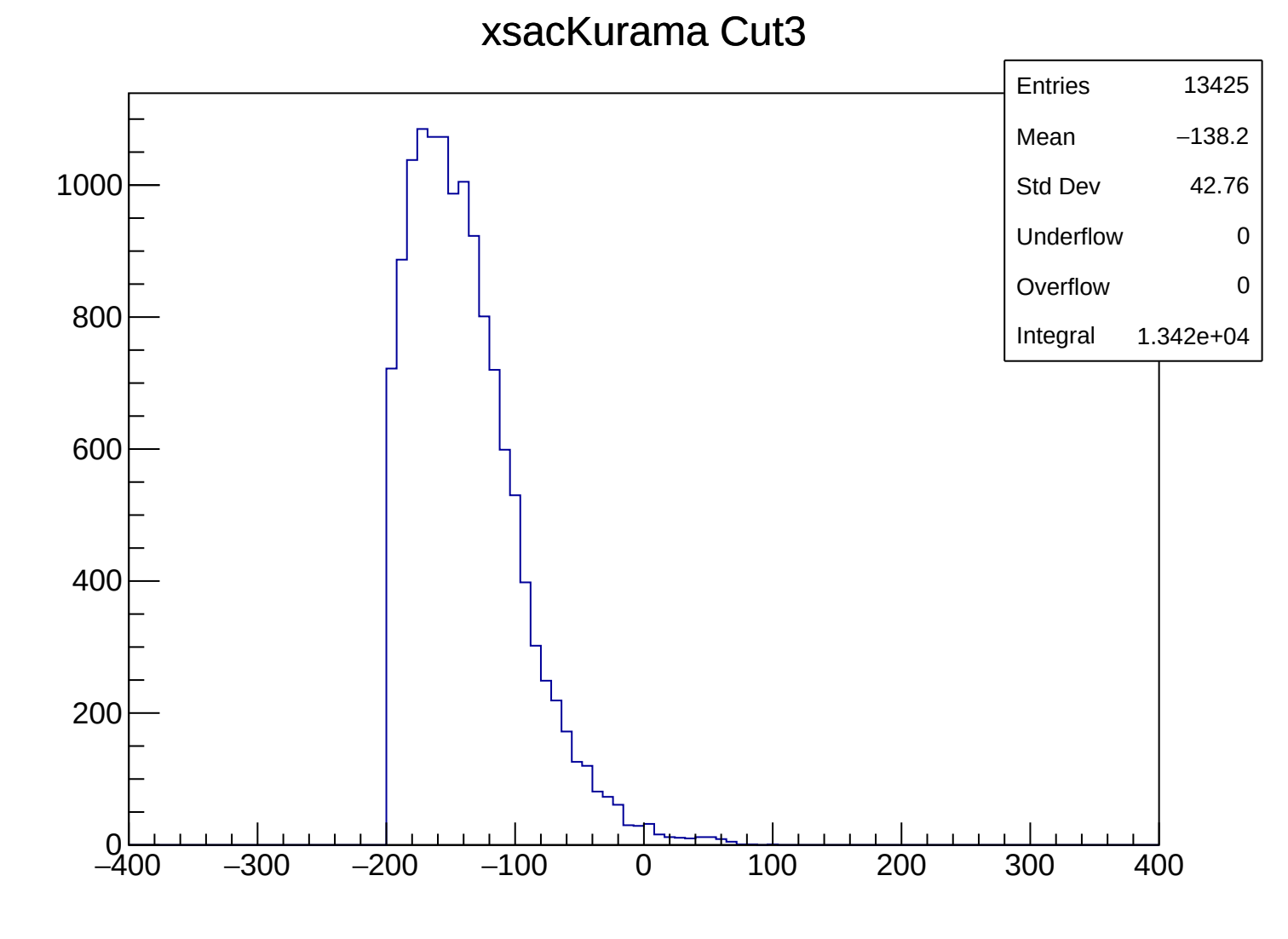

ysacKurama Cut2
Entries 39419
Mean –1.827
Std Dev 70.07
Underflow 0
Overflow 0
Integral 3.942e+04
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

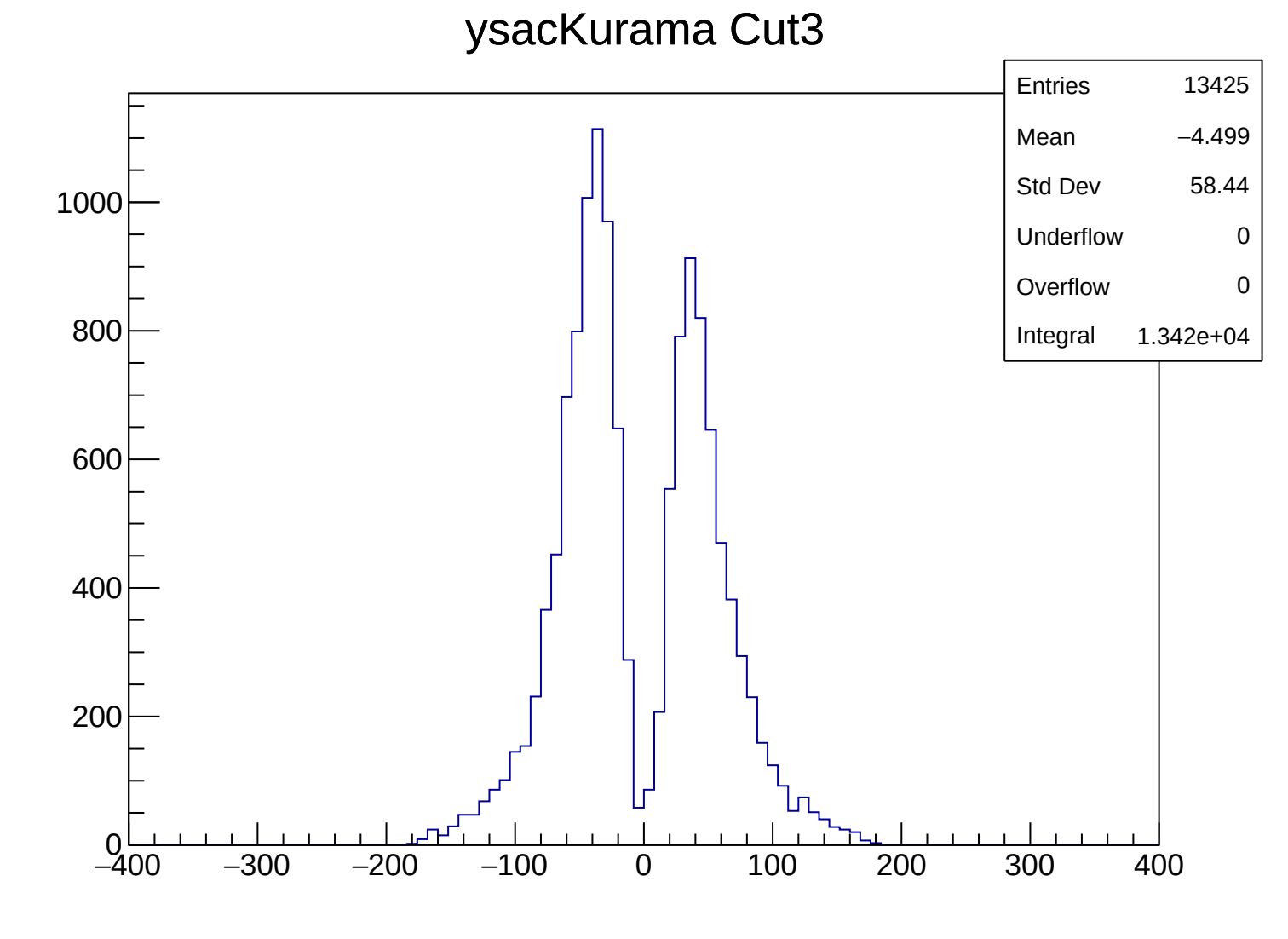

tSac Or
×10^3
200
180
160
140
120
100
80
60
40
20
0
−40
−20
0
20
40
60
80
Entries 466507
Mean 1.582
Std Dev 9.452
Underflow 1022
Overflow 3.317e+04
Integral 3.002e+05
χ² / ndf 2.283e+04 / 2
Constant 1.922e+05 ± 4.476e+02
Mean 0.8663 ± 0.0022
Sigma 1.065 ± 0.001

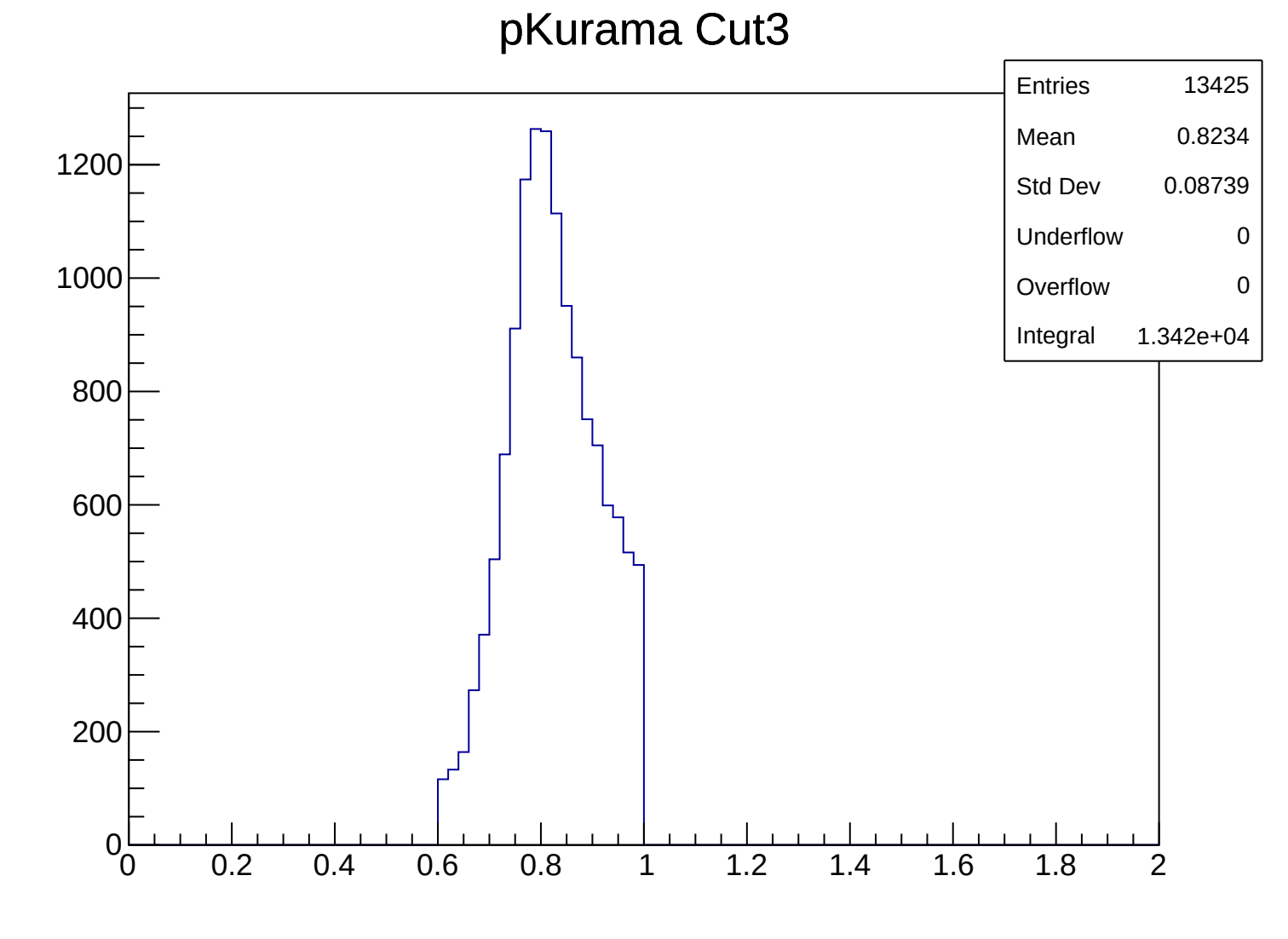

tSac Or Cut2
Entries 35052
Mean 1.895
Std Dev 11.52
Underflow 87
Overflow 3130
Integral 1.964e+04
χ² / ndf 1276 / 2
Constant 7267 ± 88.9
Mean 0.5645 ± 0.0170
Sigma 1.823 ± 0.018
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
−40
−20
0
20
40
60
80

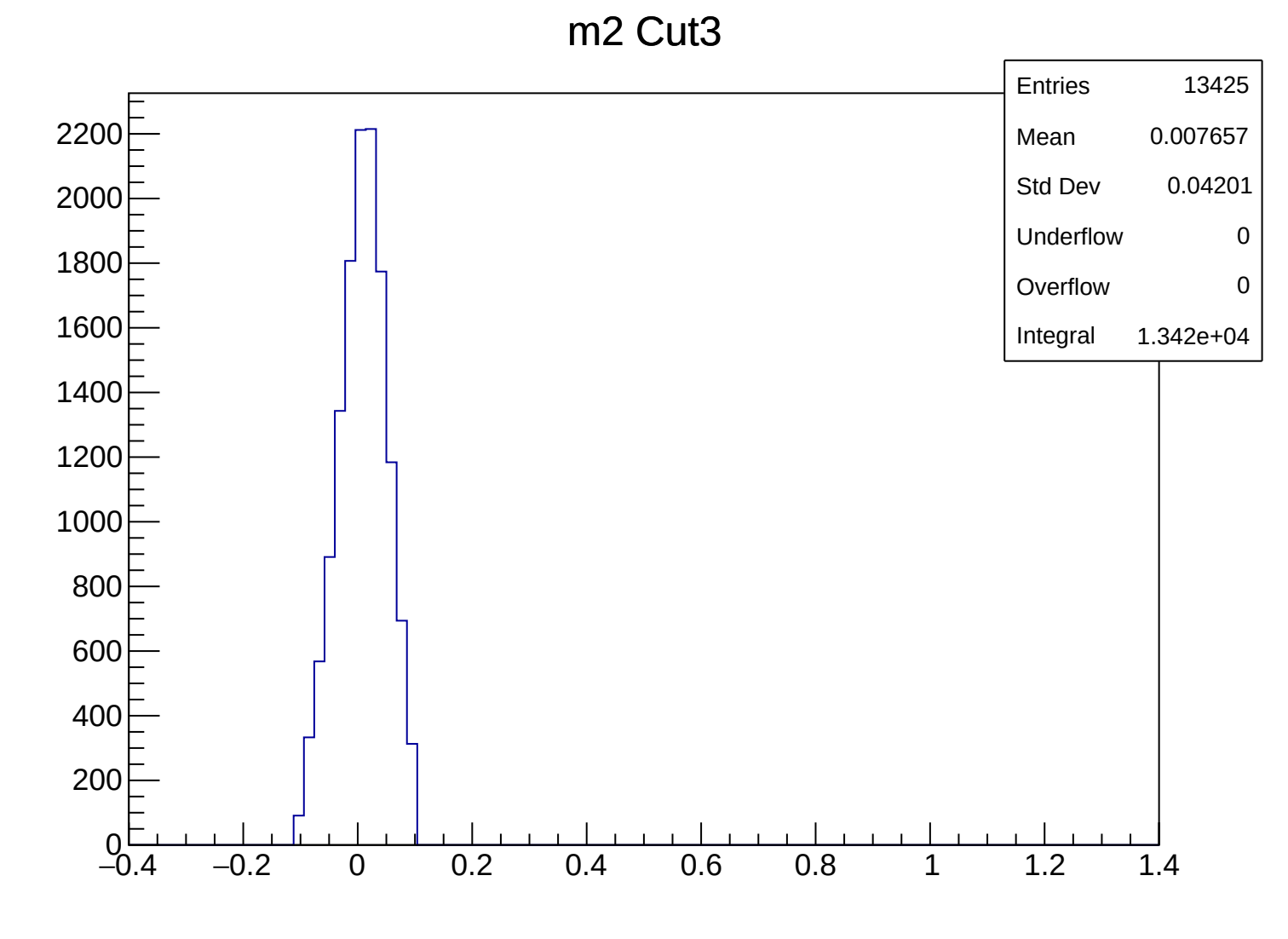

Trigger Flag BeamTofPs
Entries 1004633
Mean 957.3
Std Dev 1.343
Underflow 107
Overflow 0
Integral 1.005e+06
χ² / ndf 2.821e+04 / 6
Constant 3.205e+05 ± 3.693e+02
Mean 957.4 ± 0.0
Sigma 1.214 ± 0.001
10⁵
10⁴
10³
10²
10
1
920
940
960
980
1000
1020

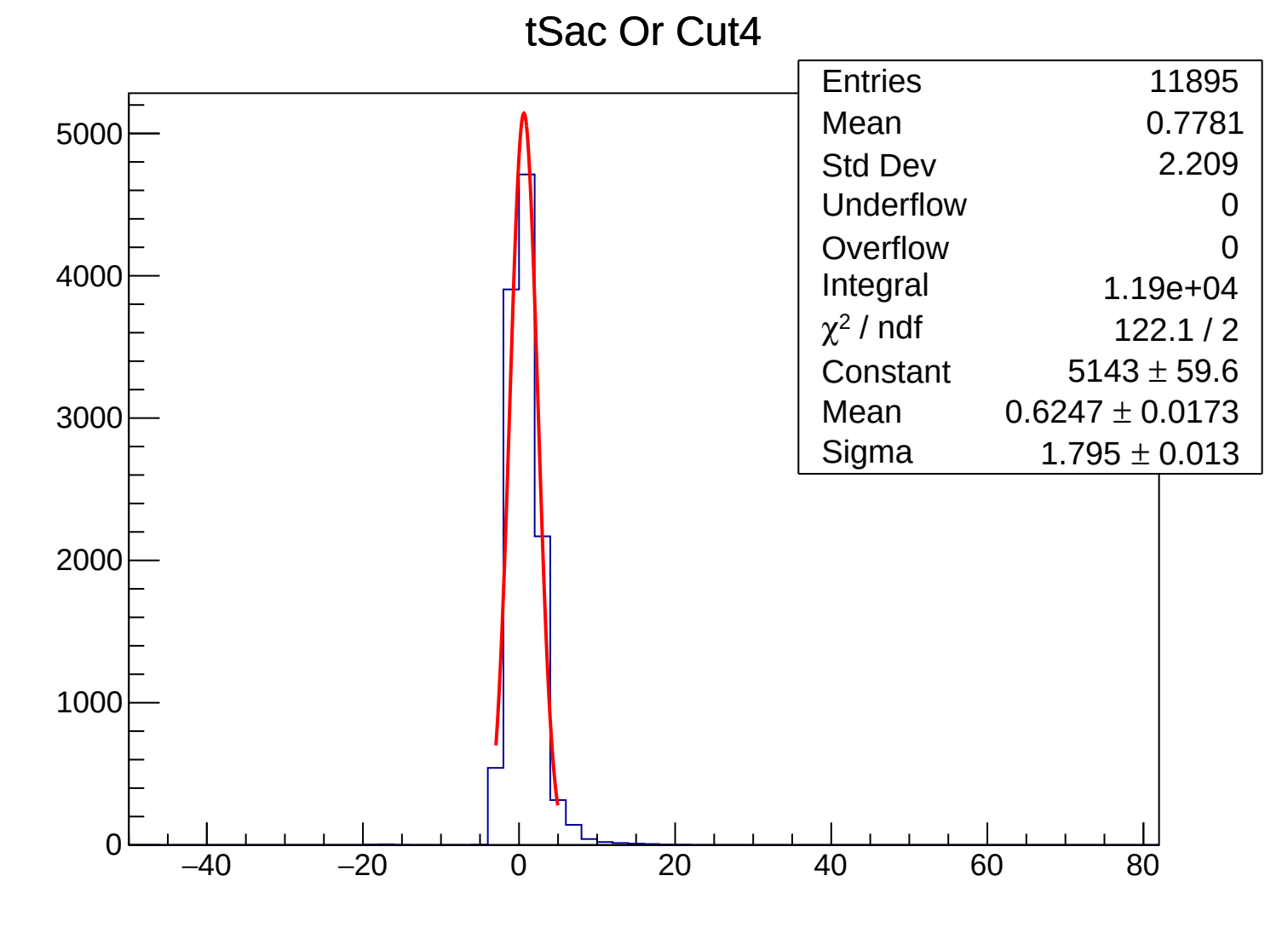

Trigger Flag BeamTofPs Cut2
Entries 38505
Mean 957.5
Std Dev 1.347
Underflow 0
Overflow 0
Integral 3.85e+04
χ² / ndf 1294 / 6
Constant 1.198e+04 ± 7.167e+01
Mean 957.5 ± 0.0
Sigma 1.239 ± 0.004
10⁴
10³
10²
10
1
920
940
960
980
1000
1020

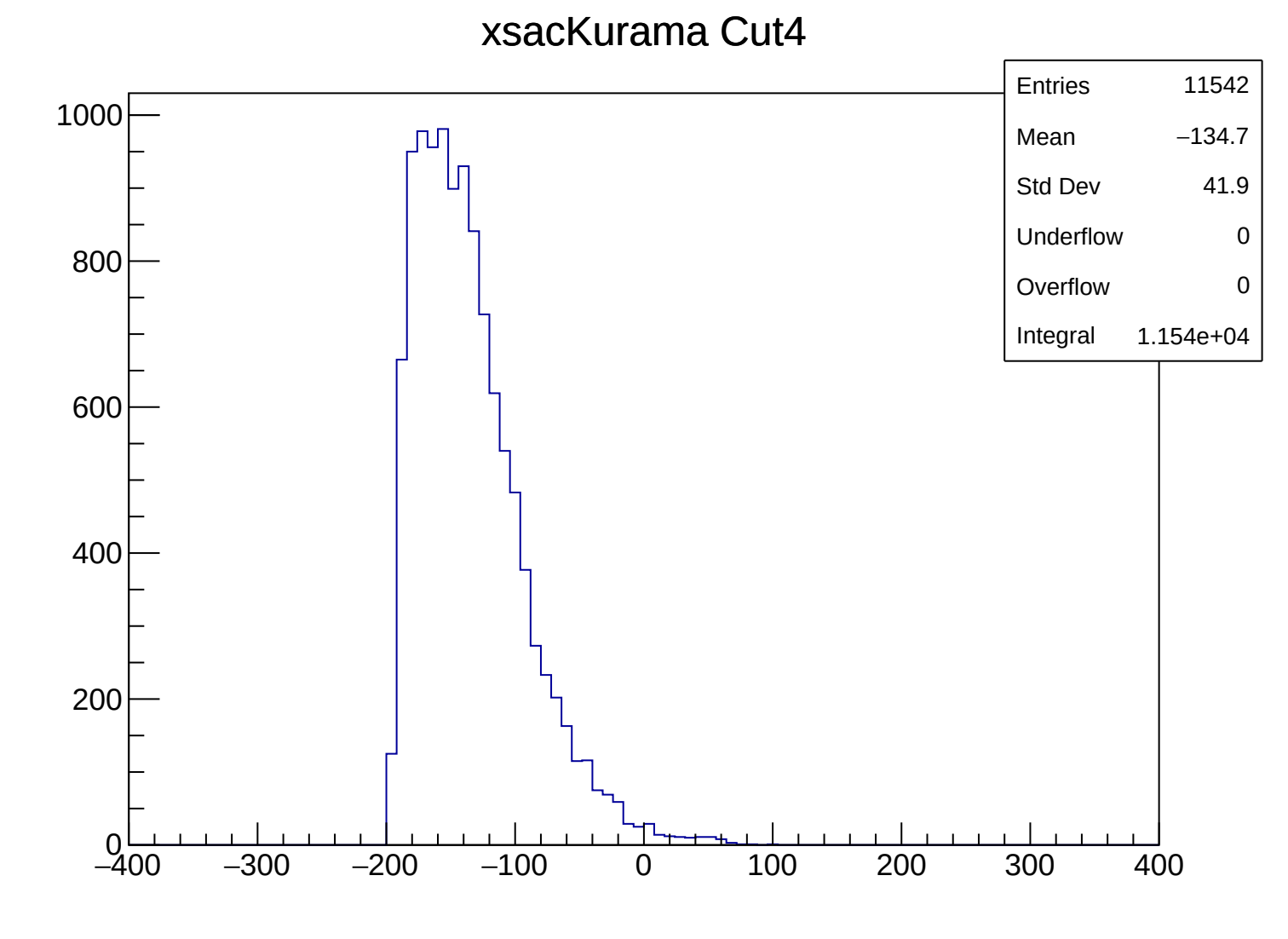

xsacKurama Cut3
Entries 13425
Mean −138.2
Std Dev 42.76
Underflow 0
Overflow 0
Integral 1.342e+04
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

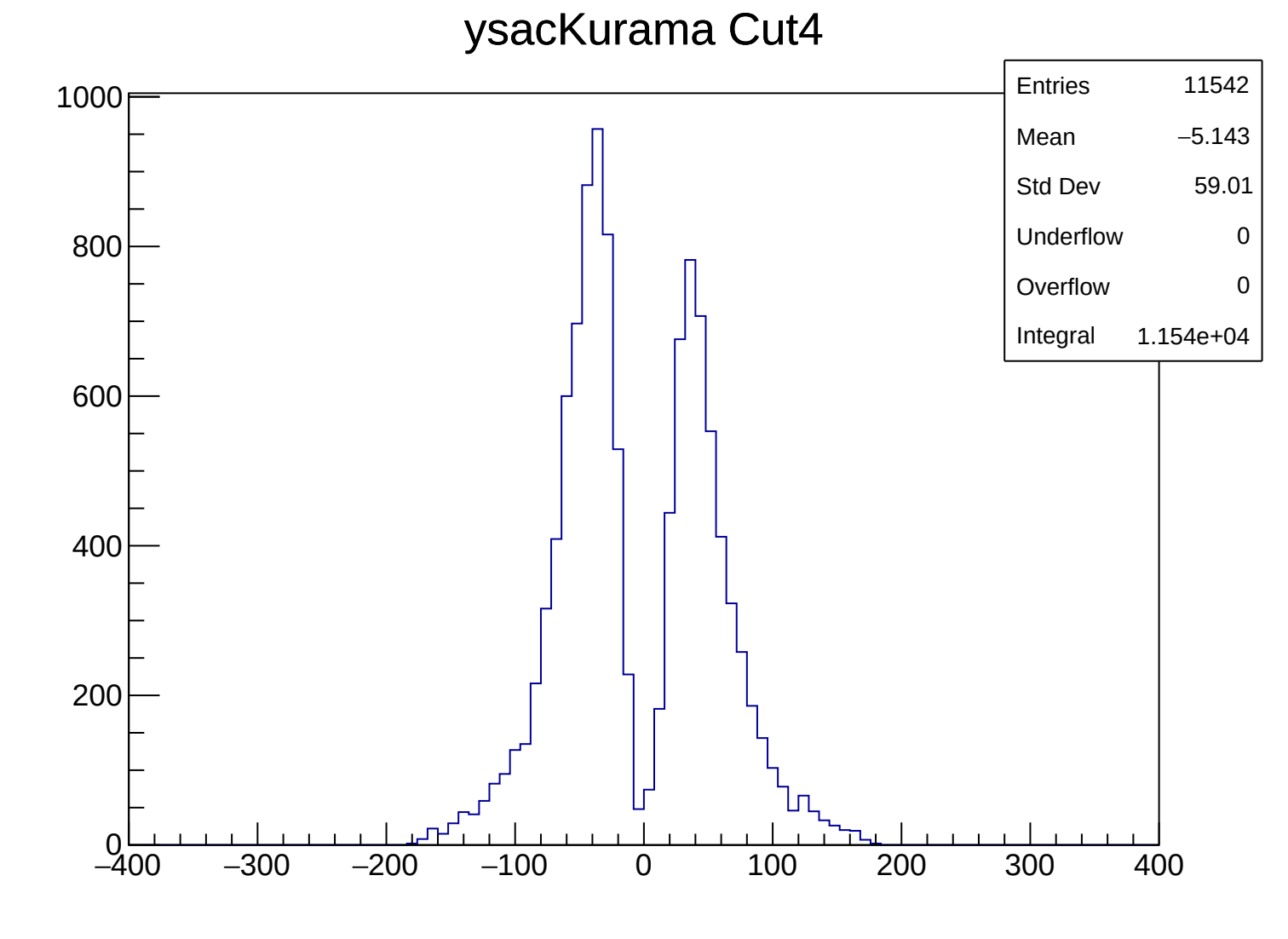

ysacKurama Cut3
Entries 13425
Mean –4.499
Std Dev 58.44
Underflow 0
Overflow 0
Integral 1.342e+04
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

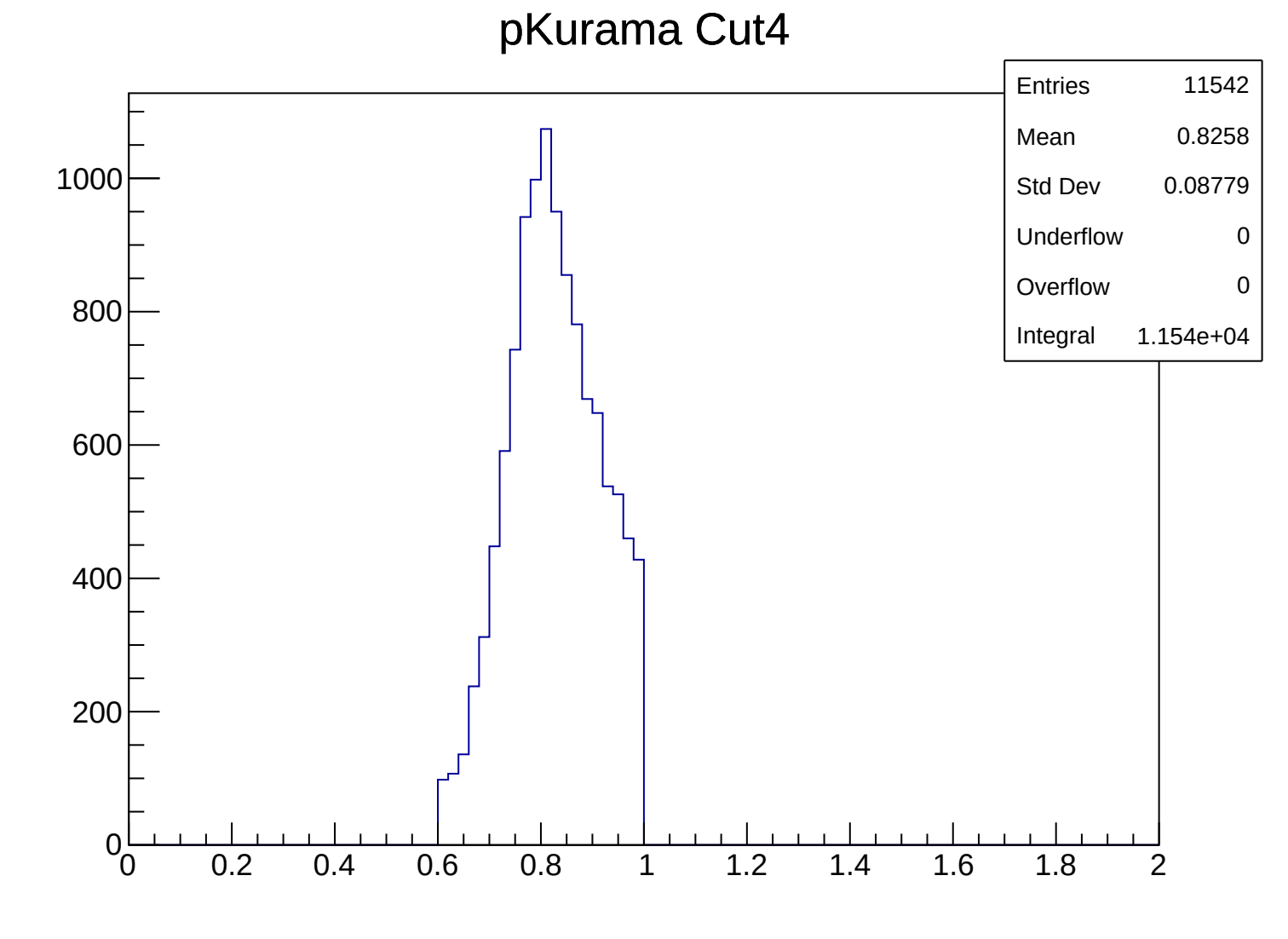

pKurama Cut3
Entries 13425
Mean 0.8234
Std Dev 0.08739
Underflow 0
Overflow 0
Integral 1.342e+04
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

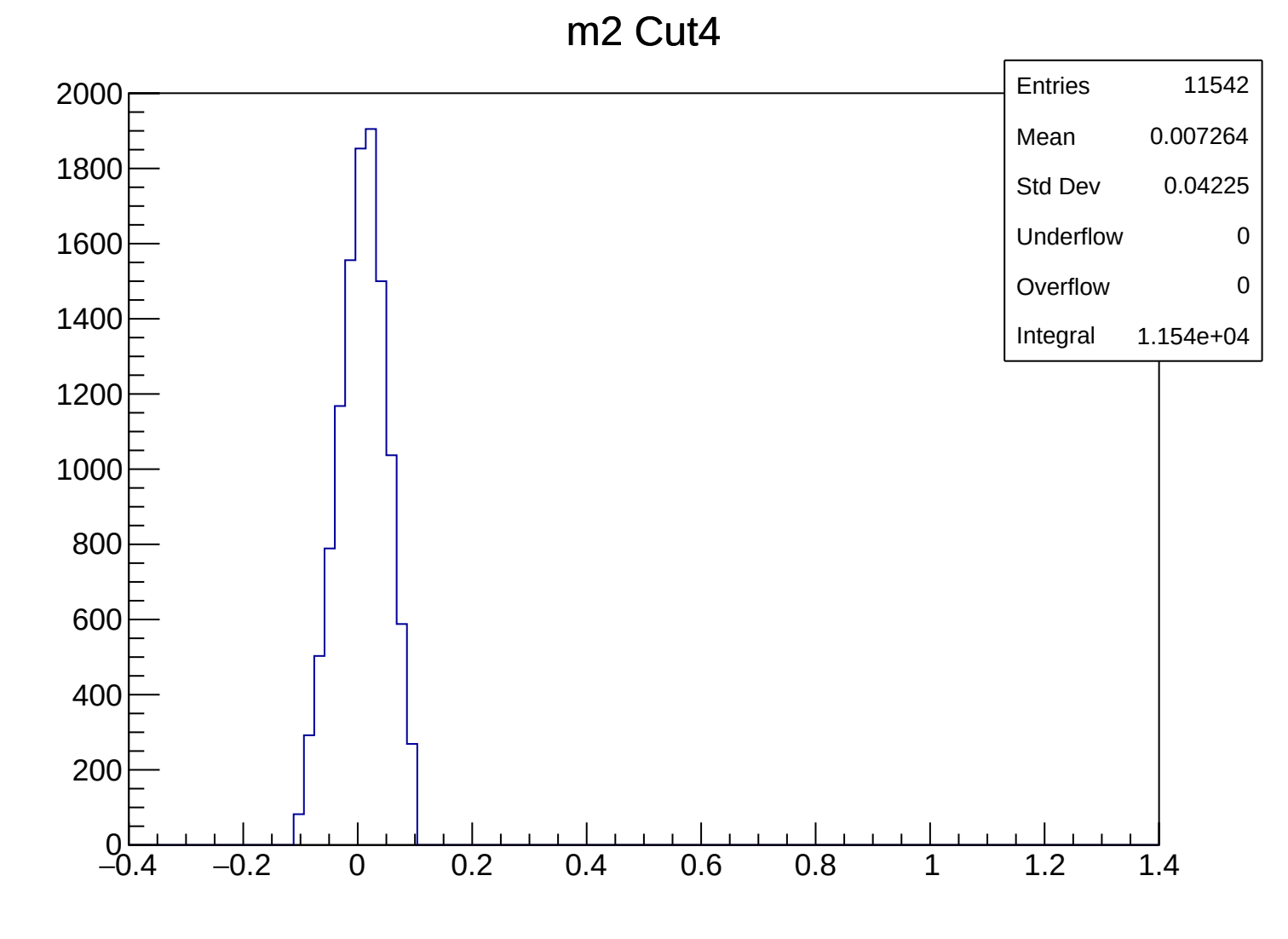

m2 Cut3
Entries 13425
Mean 0.007657
Std Dev 0.04201
Underflow 0
Overflow 0
Integral 1.342e+04
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

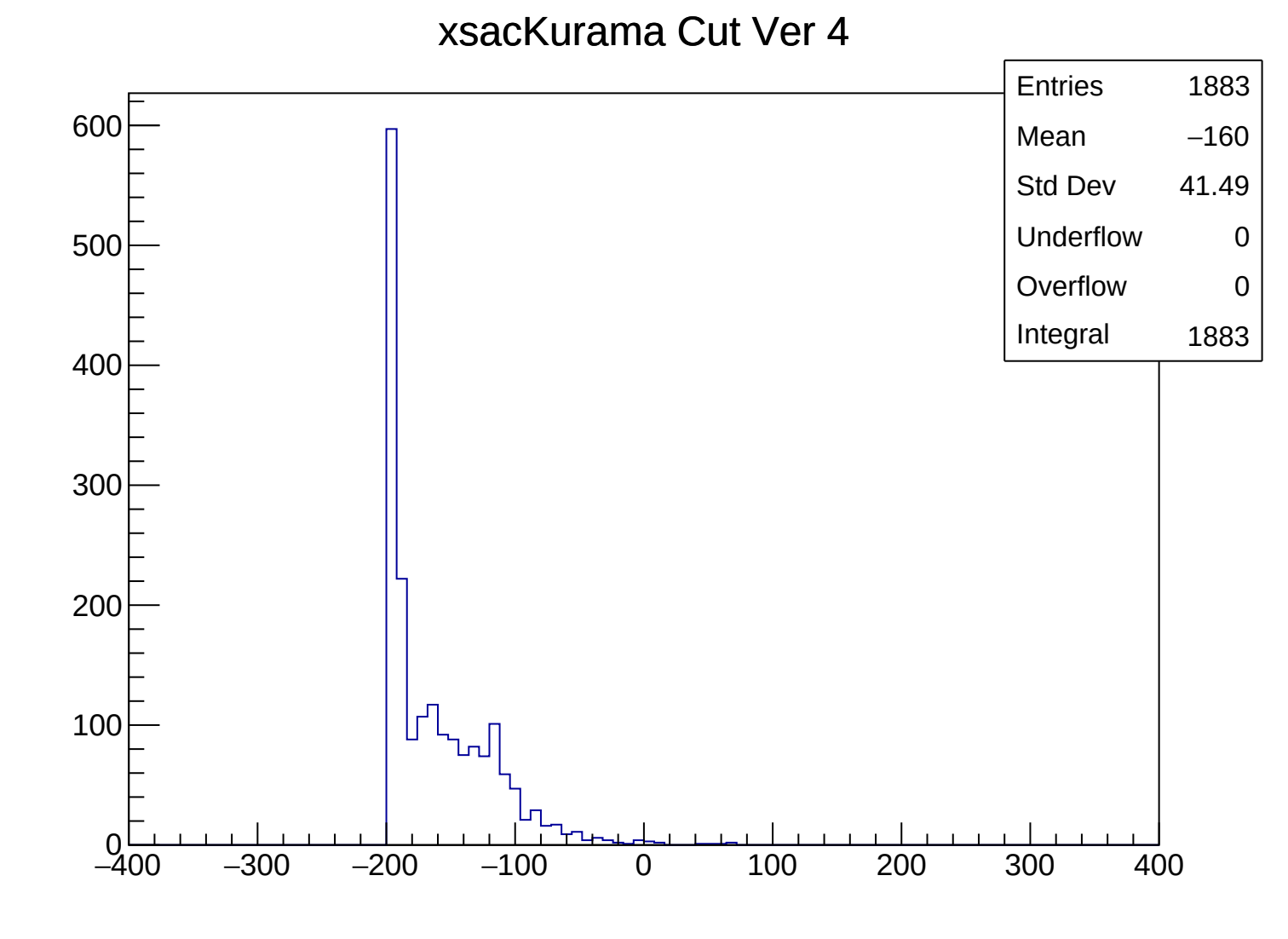

tSac Or Cut4
Entries 11895
Mean 0.7781
Std Dev 2.209
Underflow 0
Overflow 0
Integral 1.19e+04
χ² / ndf 122.1 / 2
Constant 5143 ± 59.6
Mean 0.6247 ± 0.0173
Sigma 1.795 ± 0.013
5000
4000
3000
2000
1000
0
–40
–20
0
20
40
60
80

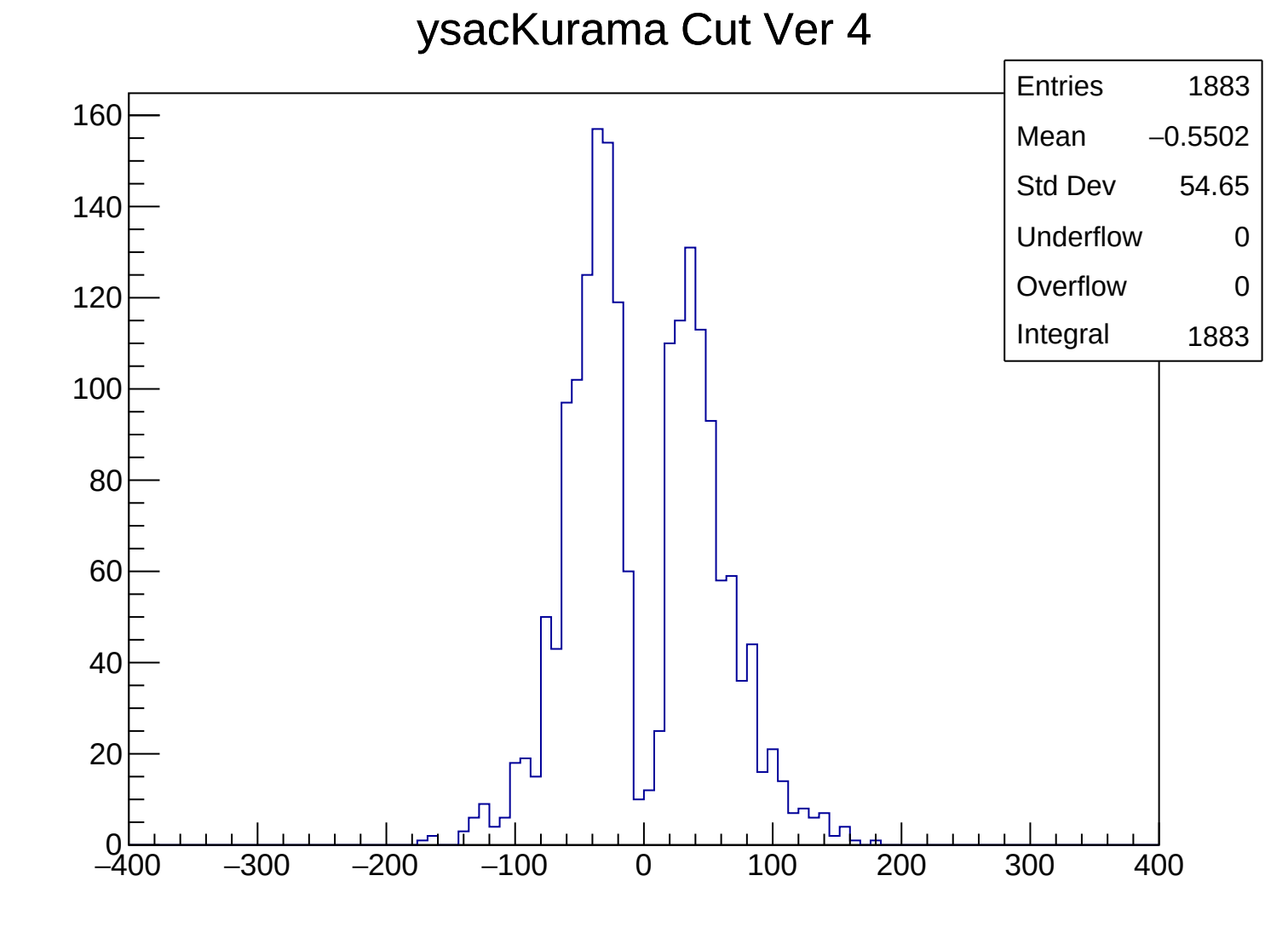

xsacKurama Cut4
Entries 11542
Mean –134.7
Std Dev 41.9
Underflow 0
Overflow 0
Integral 1.154e+04
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

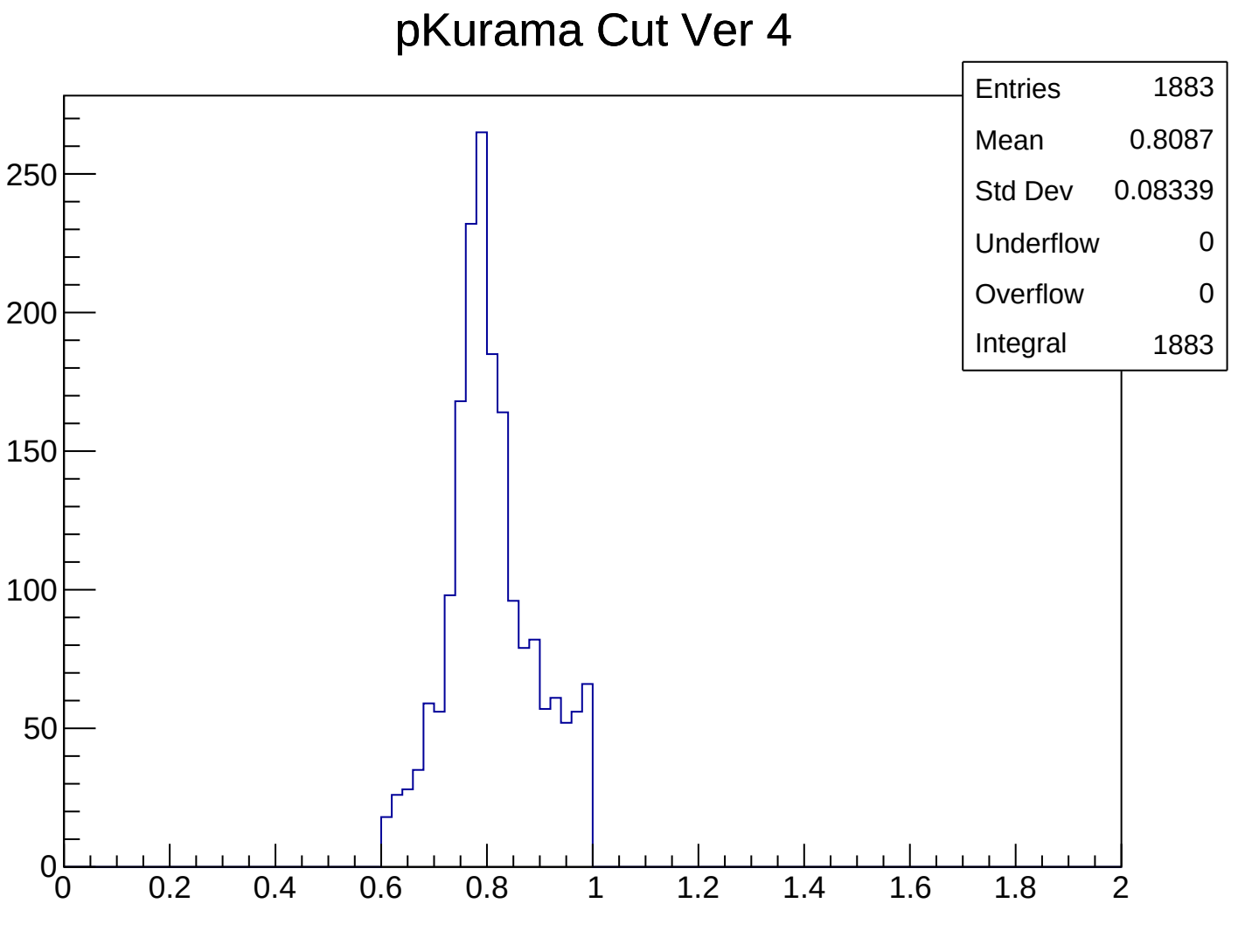

ysacKurama Cut4
Entries 11542
Mean –5.143
Std Dev 59.01
Underflow 0
Overflow 0
Integral 1.154e+04
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

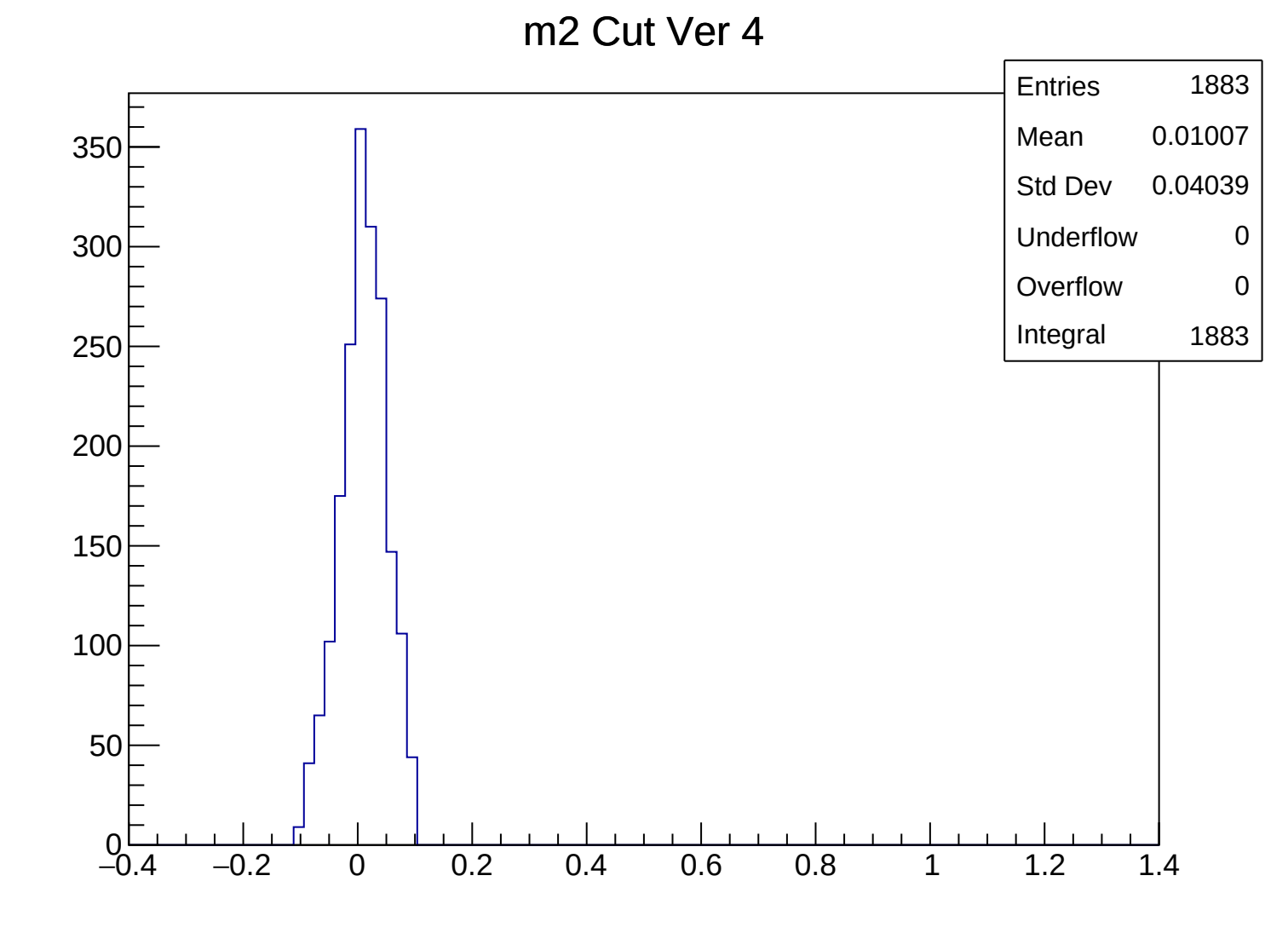

pKurama Cut4
Entries 11542
Mean 0.8258
Std Dev 0.08779
Underflow 0
Overflow 0
Integral 1.154e+04
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

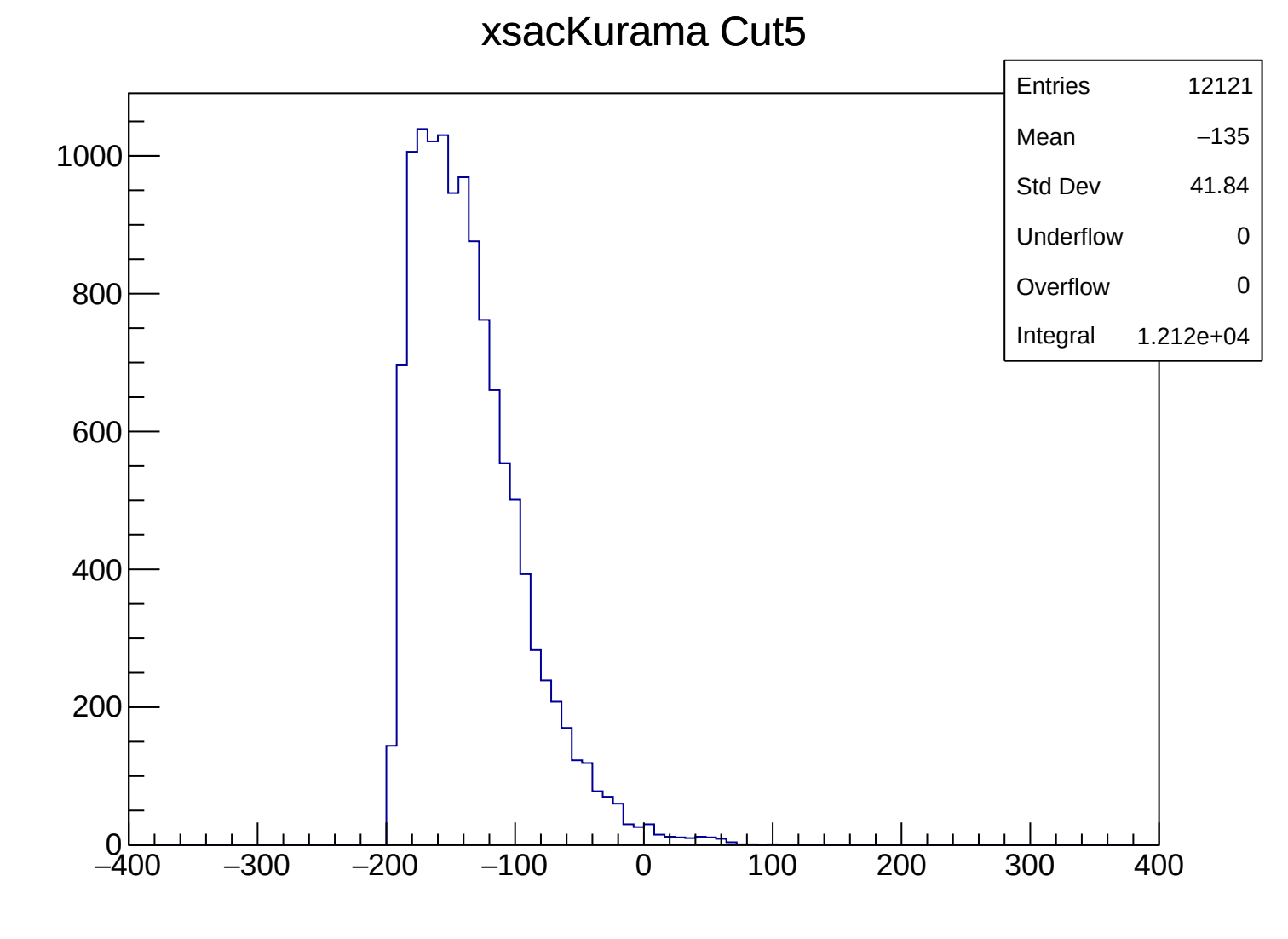

m2 Cut4
Entries 11542
Mean 0.007264
Std Dev 0.04225
Underflow 0
Overflow 0
Integral 1.154e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

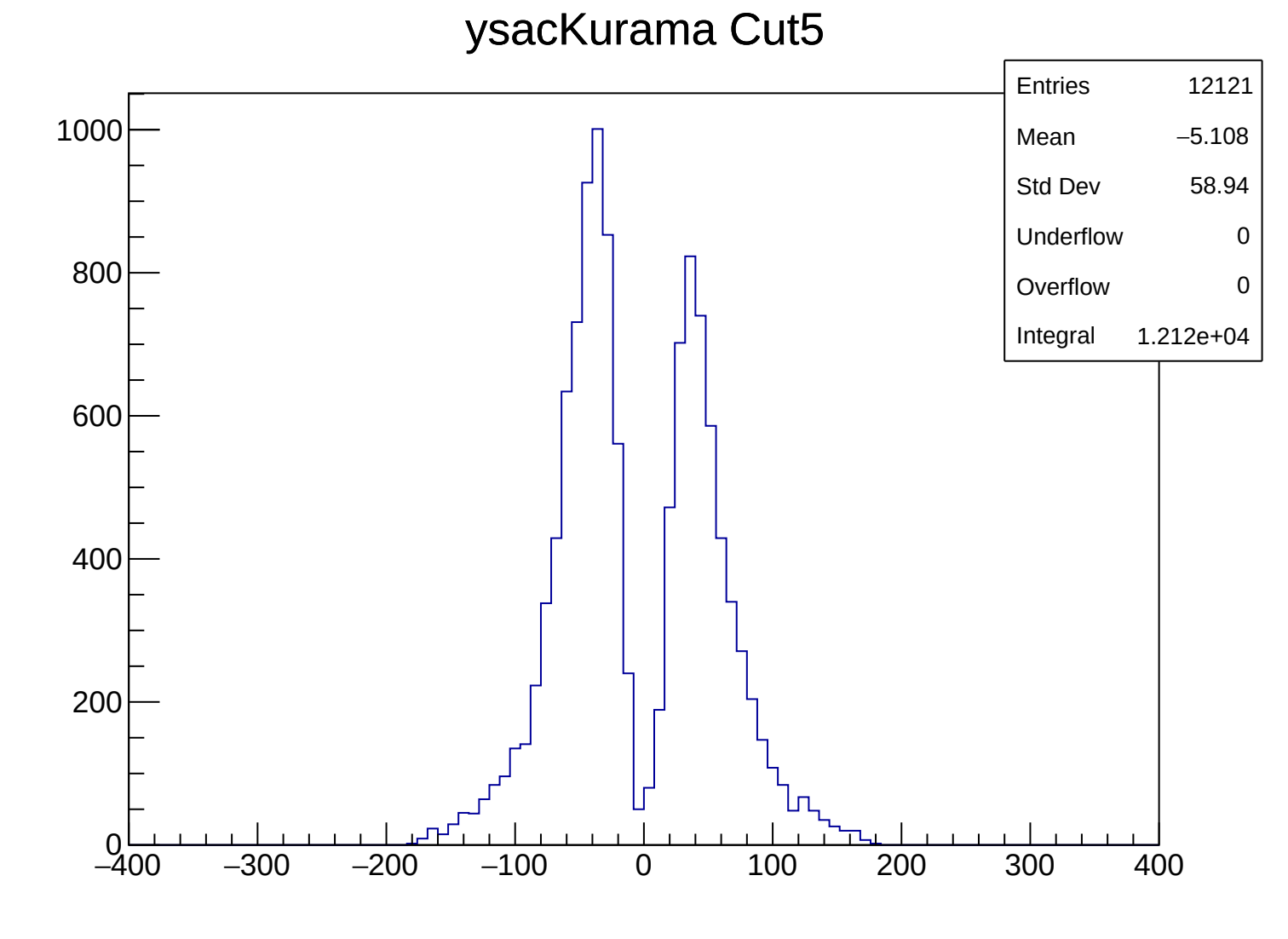

xsacKurama Cut Ver 4
Entries 1883
Mean −160
Std Dev 41.49
Underflow 0
Overflow 0
Integral 1883
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

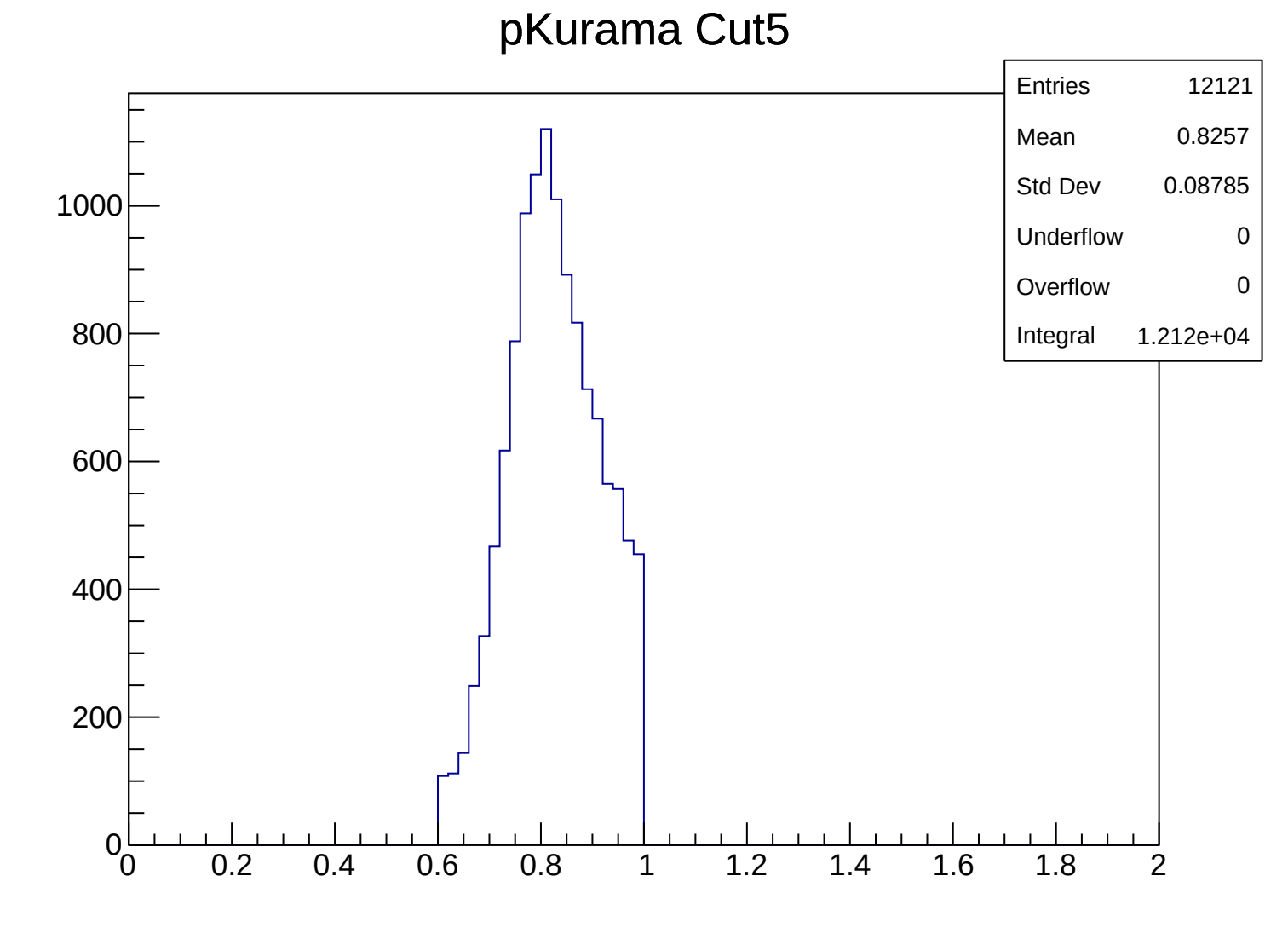

ysacKurama Cut Ver 4
Entries 1883
Mean –0.5502
Std Dev 54.65
Underflow 0
Overflow 0
Integral 1883
160
140
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

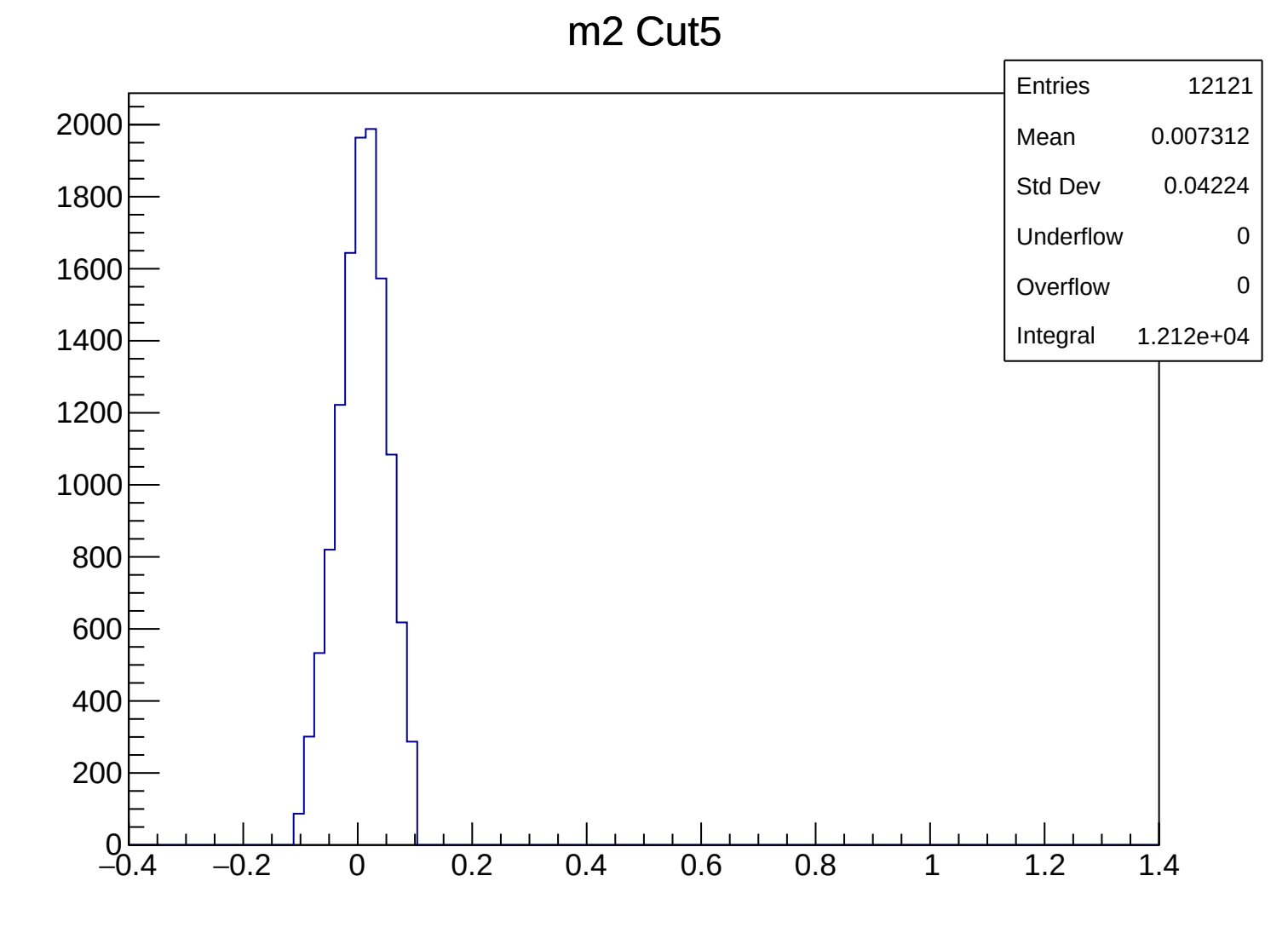

pKurama Cut Ver 4
Entries 1883
Mean 0.8087
Std Dev 0.08339
Underflow 0
Overflow 0
Integral 1883
250
200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

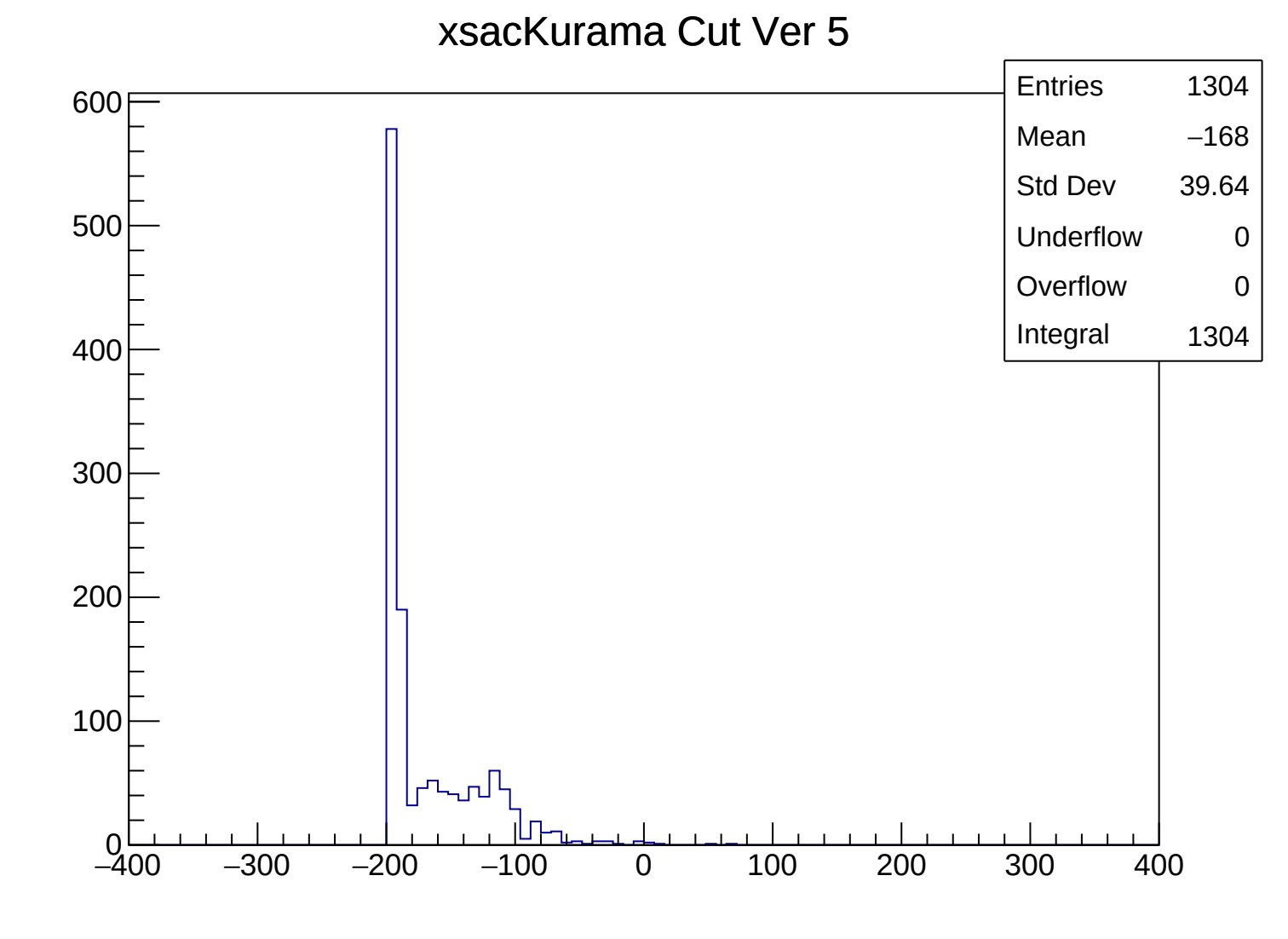

m2 Cut Ver 4
Entries 1883
Mean 0.01007
Std Dev 0.04039
Underflow 0
Overflow 0
Integral 1883
350
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

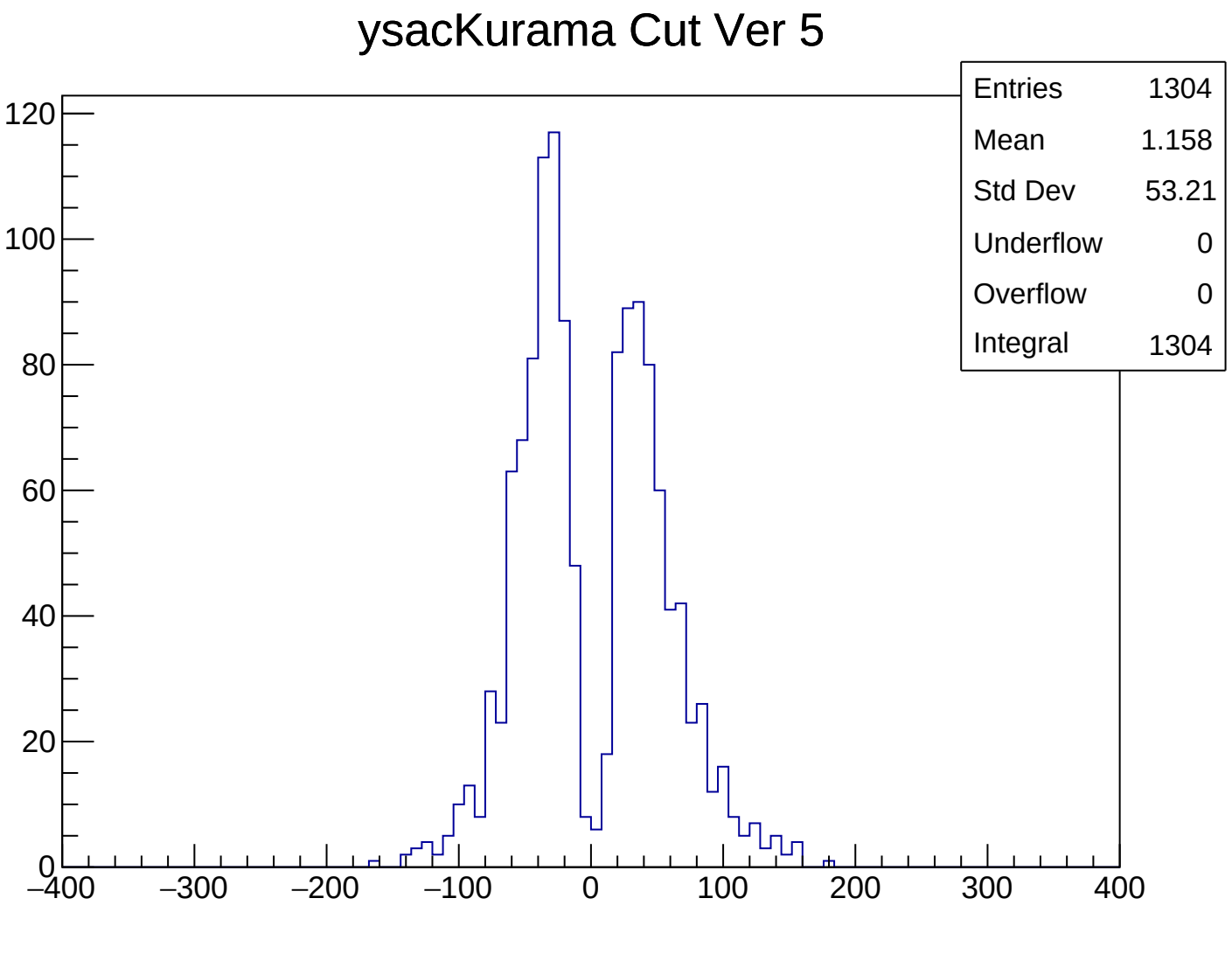

xsacKurama Cut5
Entries 12121
Mean −135
Std Dev 41.84
Underflow 0
Overflow 0
Integral 1.212e+04
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

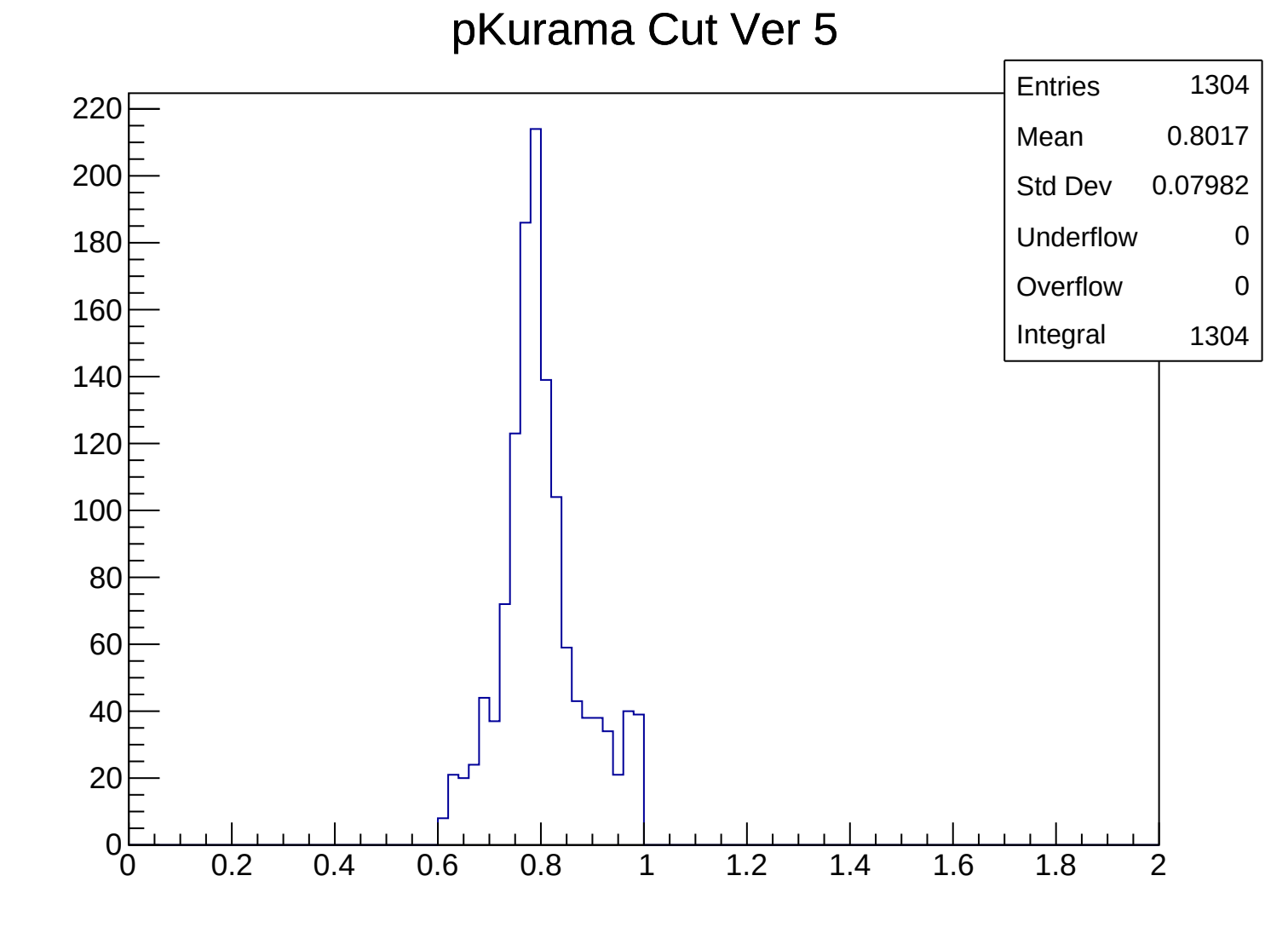

ysacKurama Cut5
Entries 12121
Mean –5.108
Std Dev 58.94
Underflow 0
Overflow 0
Integral 1.212e+04
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

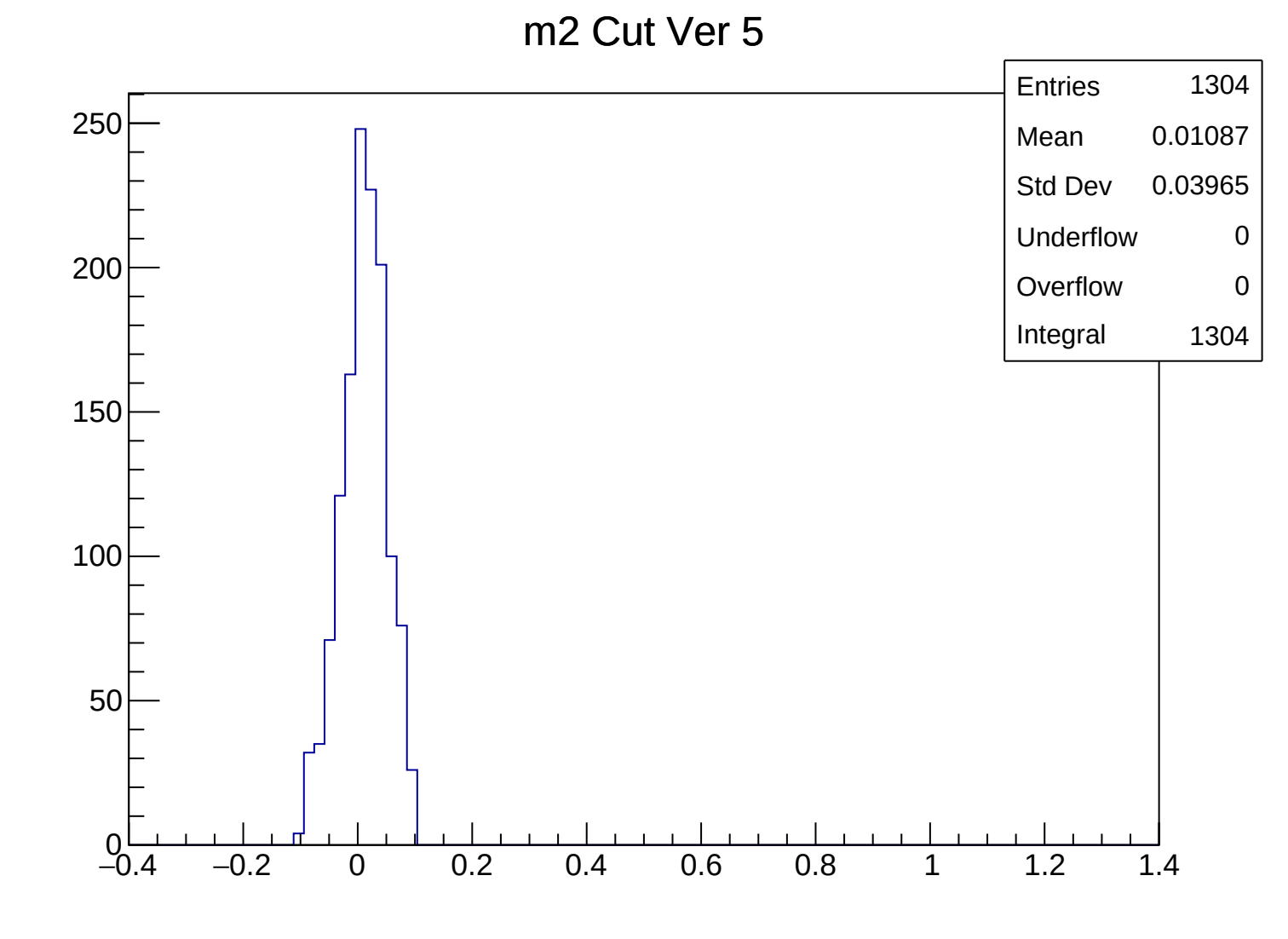

pKurama Cut5
Entries 12121
Mean 0.8257
Std Dev 0.08785
Underflow 0
Overflow 0
Integral 1.212e+04
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

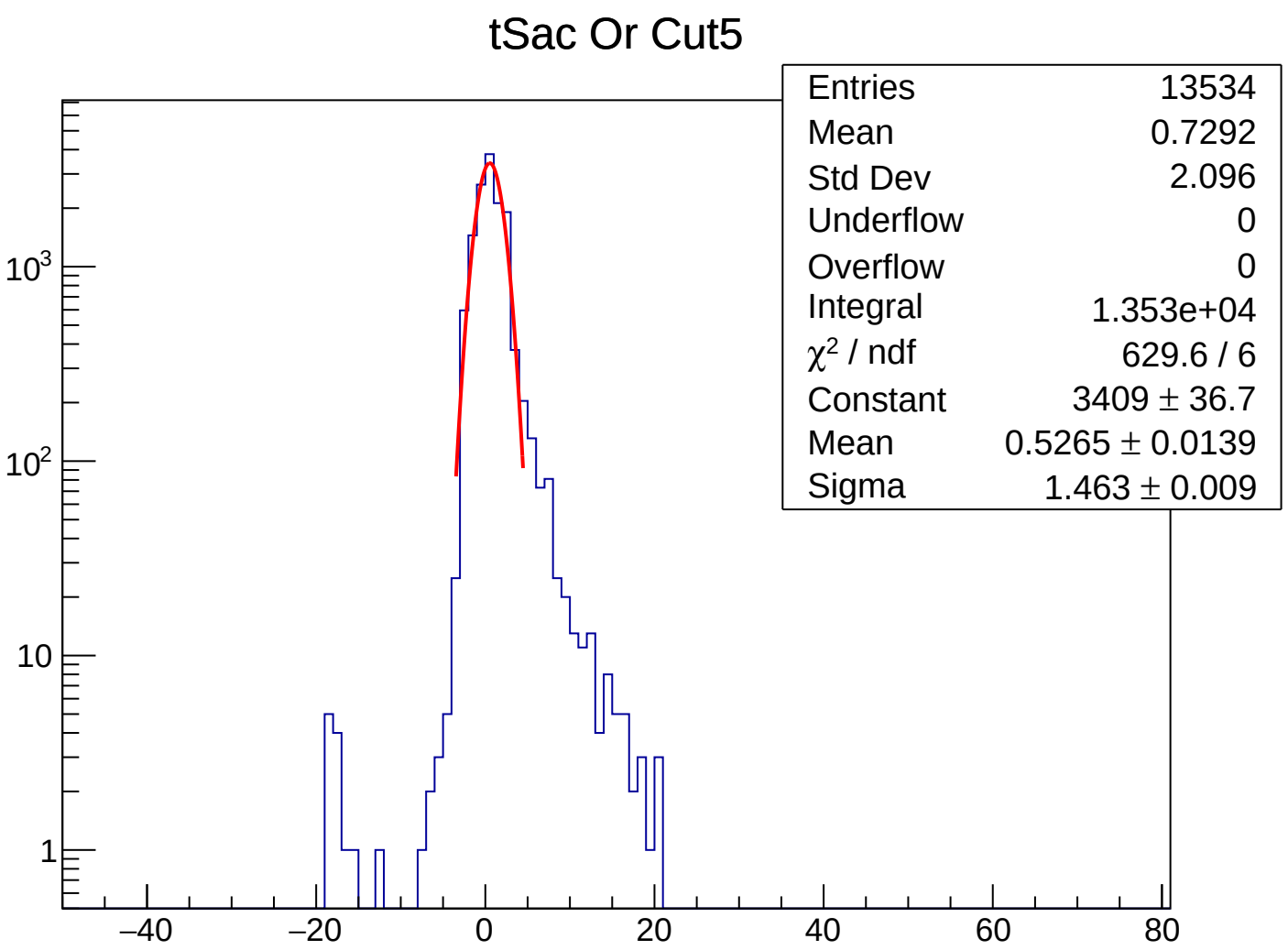

m2 Cut5
Entries 12121
Mean 0.007312
Std Dev 0.04224
Underflow 0
Overflow 0
Integral 1.212e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

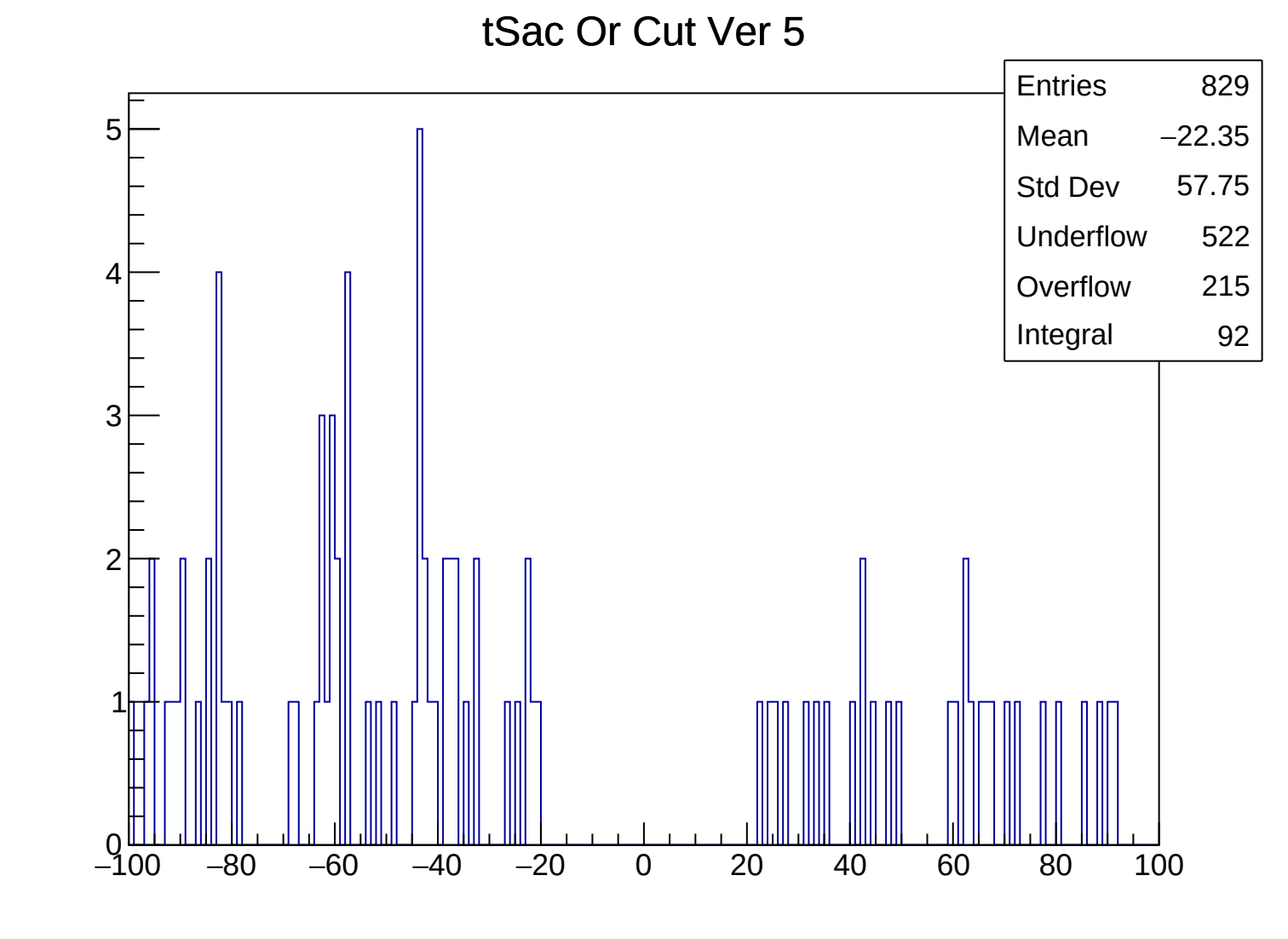

xsacKurama Cut Ver 5
Entries 1304
Mean −168
Std Dev 39.64
Underflow 0
Overflow 0
Integral 1304
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

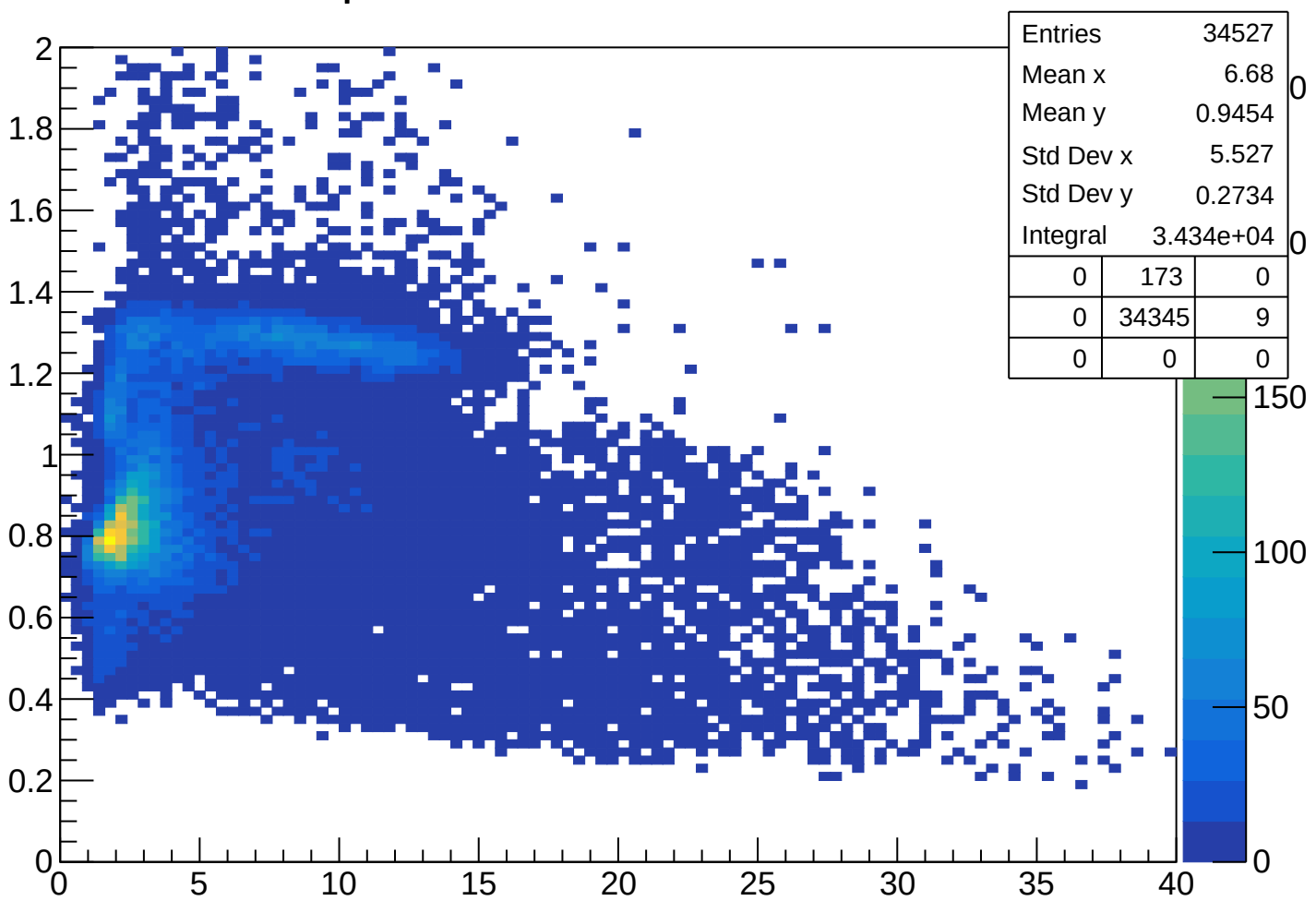

ysacKurama Cut Ver 5
Entries 1304
Mean 1.158
Std Dev 53.21
Underflow 0
Overflow 0
Integral 1304
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

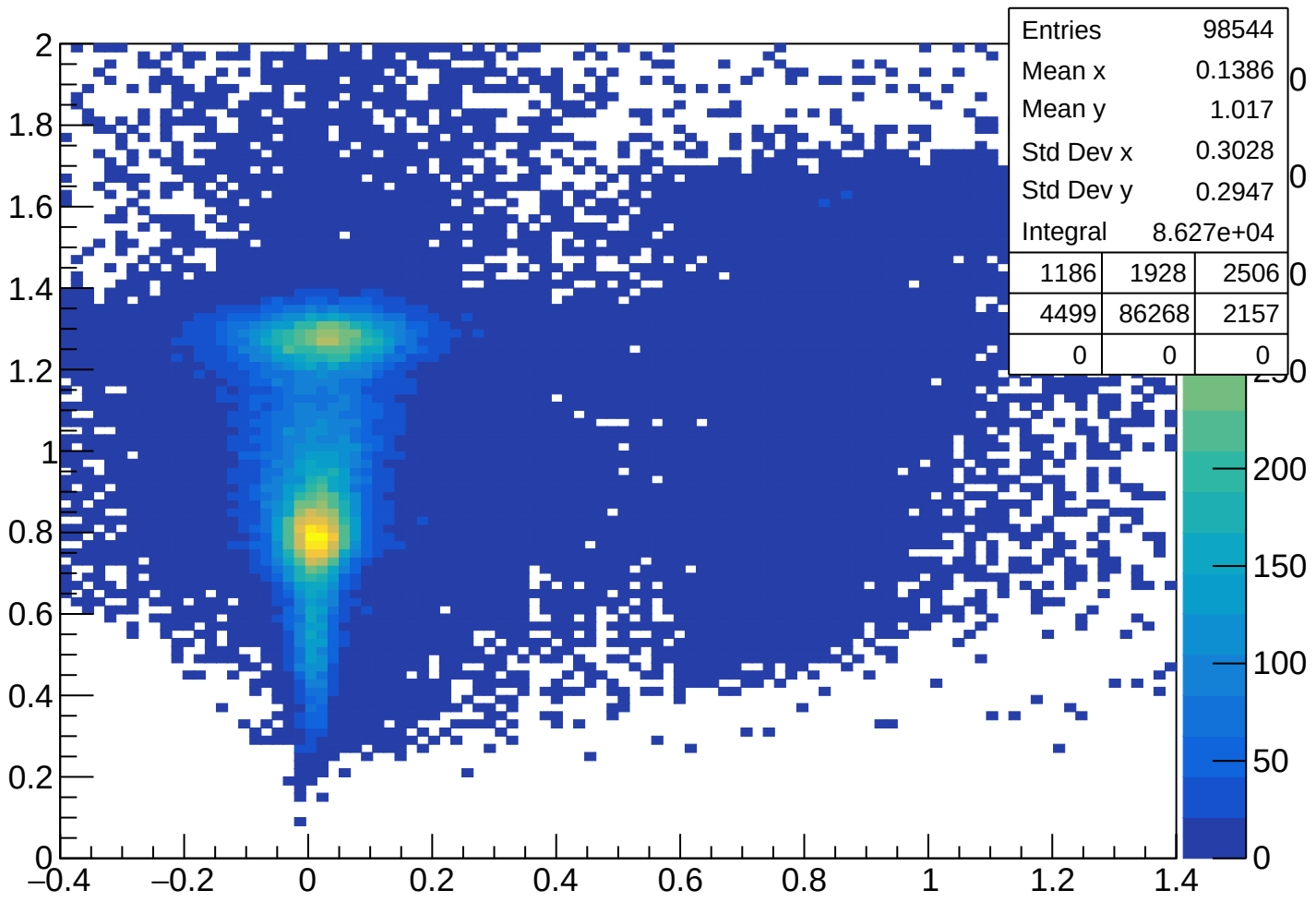

pKurama Cut Ver 5
Entries 1304
Mean 0.8017
Std Dev 0.07982
Underflow 0
Overflow 0
Integral 1304
220
200
180
160
140
120
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

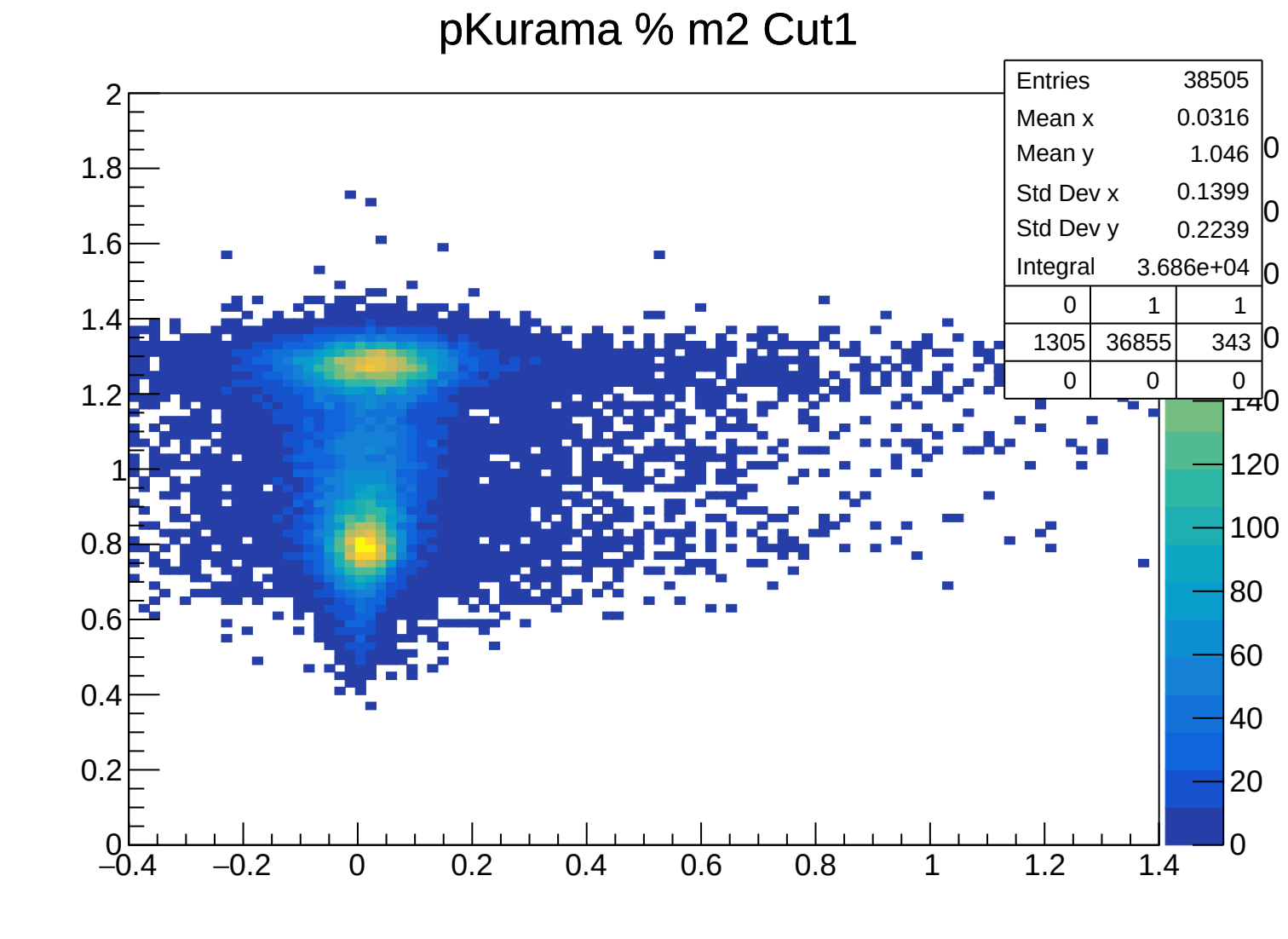

m2 Cut Ver 5
Entries 1304
Mean 0.01087
Std Dev 0.03965
Underflow 0
Overflow 0
Integral 1304
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

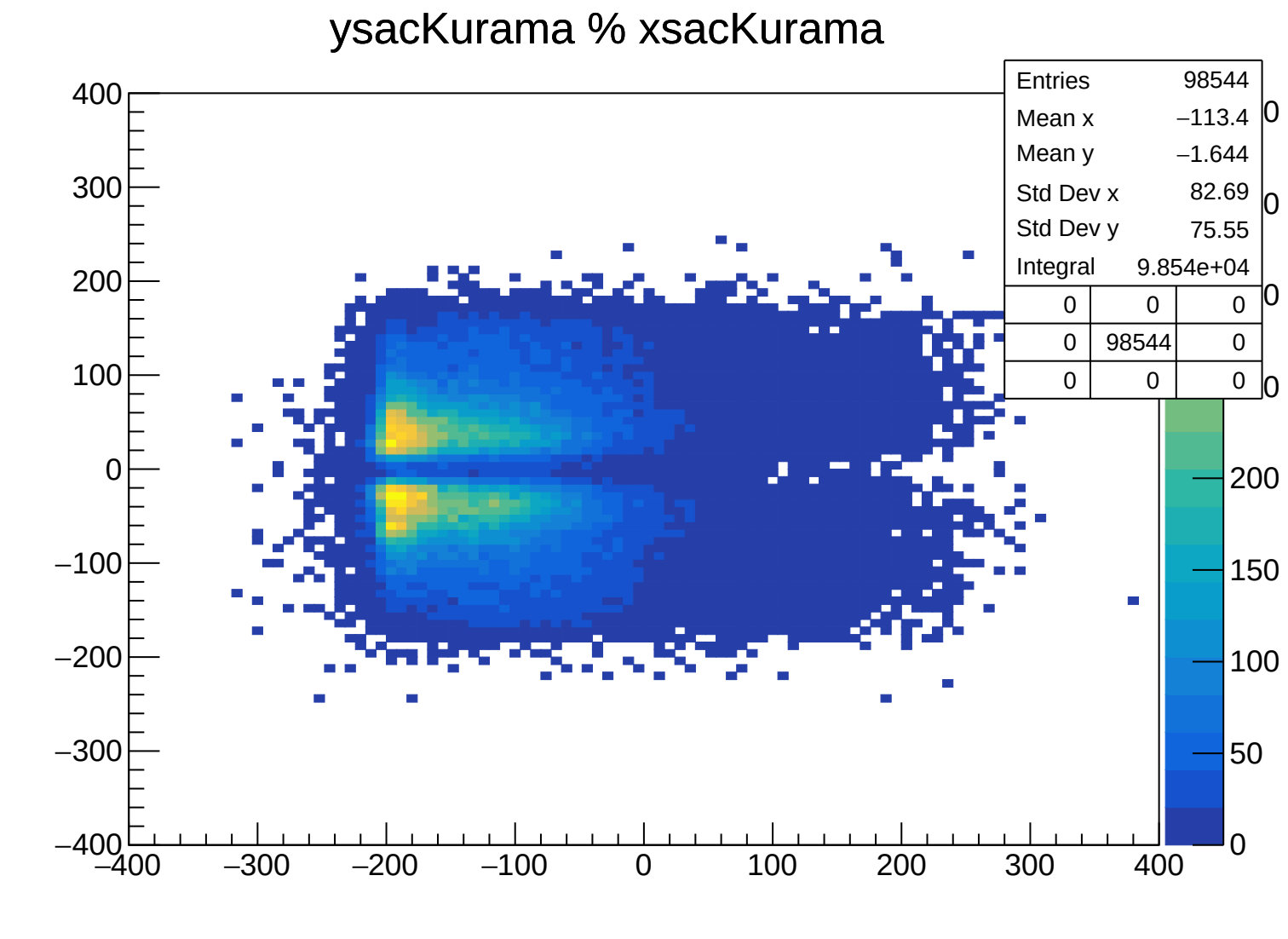

tSac Or Cut5
Entries 13534
Mean 0.7292
Std Dev 2.096
Underflow 0
Overflow 0
Integral 1.353e+04
χ² / ndf 629.6 / 6
Constant 3409 ± 36.7
Mean 0.5265 ± 0.0139
Sigma 1.463 ± 0.009
10³
10²
10
1
–40
–20
0
20
40
60
80

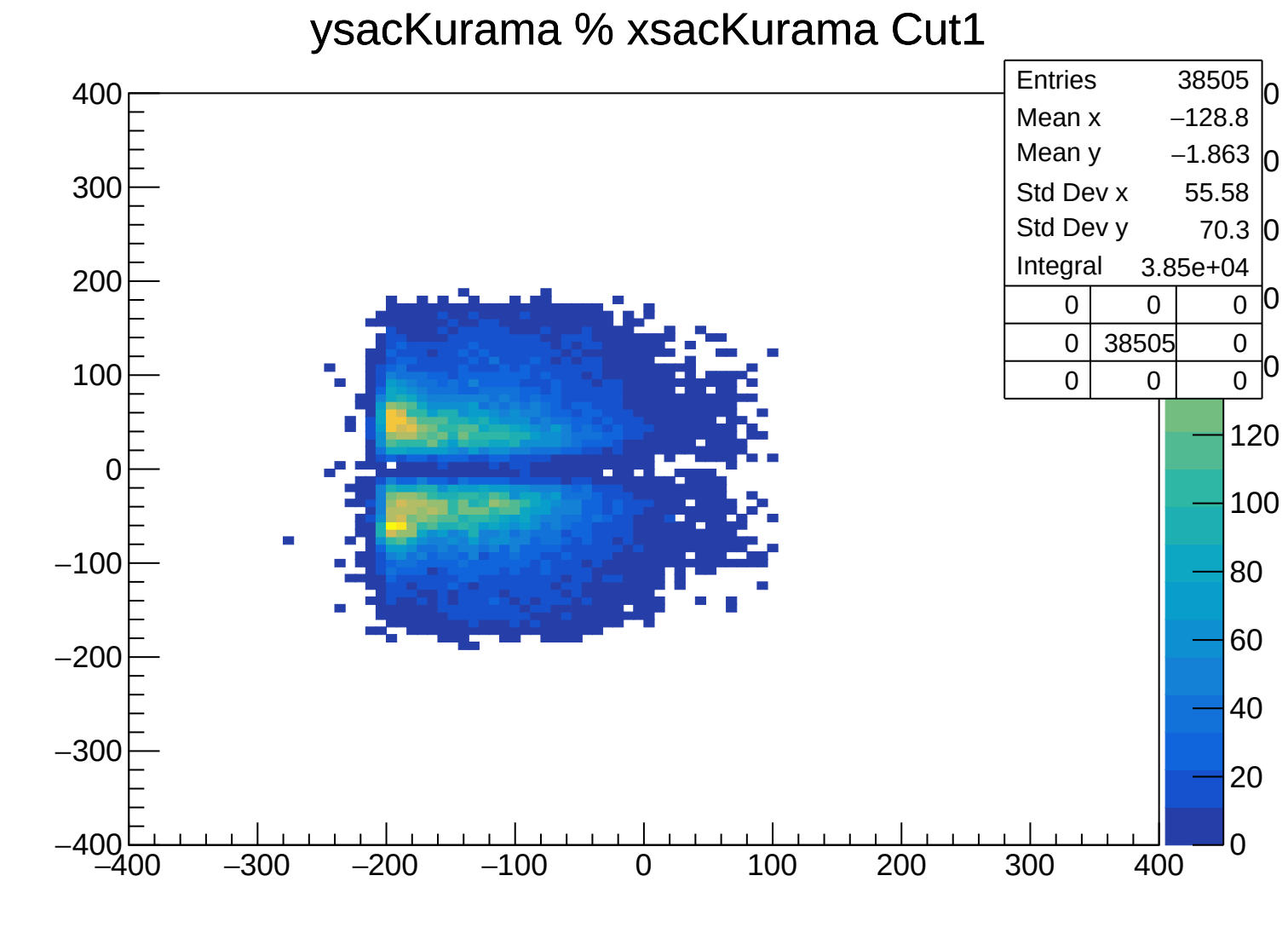

tSac Or Cut Ver 5
Entries 829
Mean −22.35
Std Dev 57.75
Underflow 522
Overflow 215
Integral 92
5
4
3
2
1
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

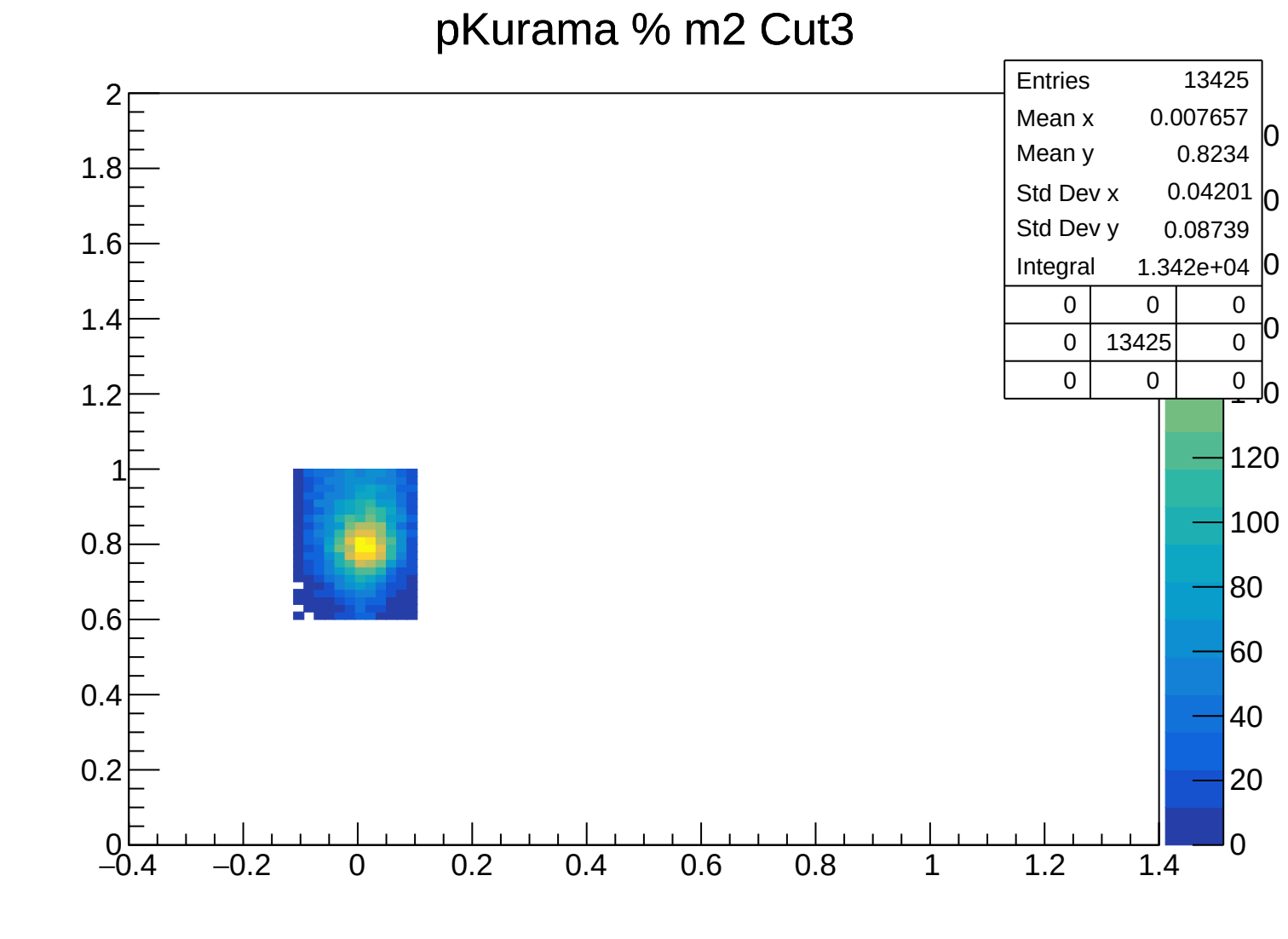

pKurama % ThetaKurama
Entries 34527
Mean x 6.68
Mean y 0.9454
Std Dev x 5.527
Std Dev y 0.2734
Integral 3.434e+04
0 173 0
0 34345 9
0 0 0
0 5 10 15 20 25 30 35 40
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 50 100 150

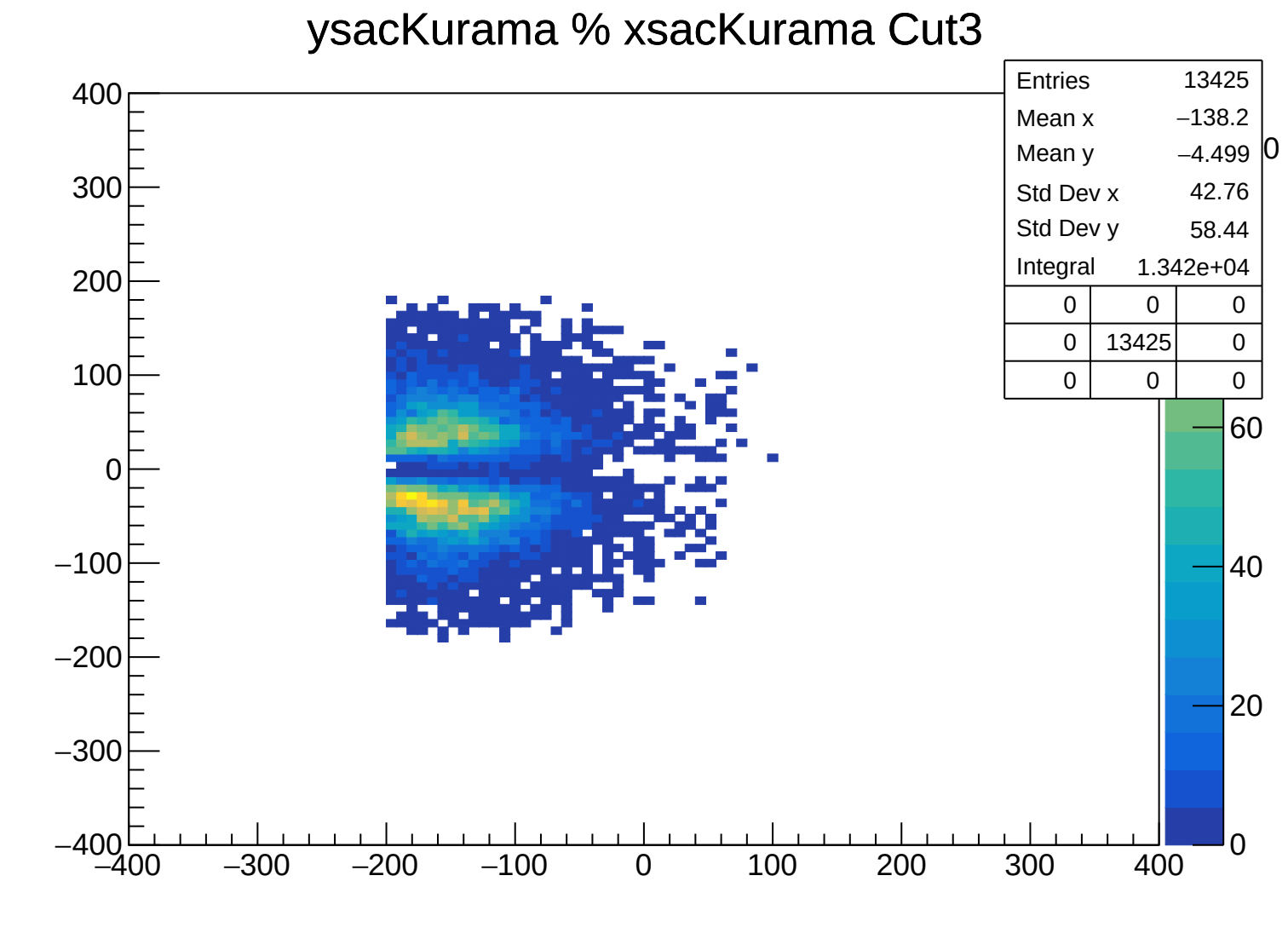

pKurama % m2
Entries 98544
Mean x 0.1386
Mean y 1.017
Std Dev x 0.3028
Std Dev y 0.2947
Integral 8.627e+04
1186 1928 2506
4499 86268 2157
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
200
150
100
50
0

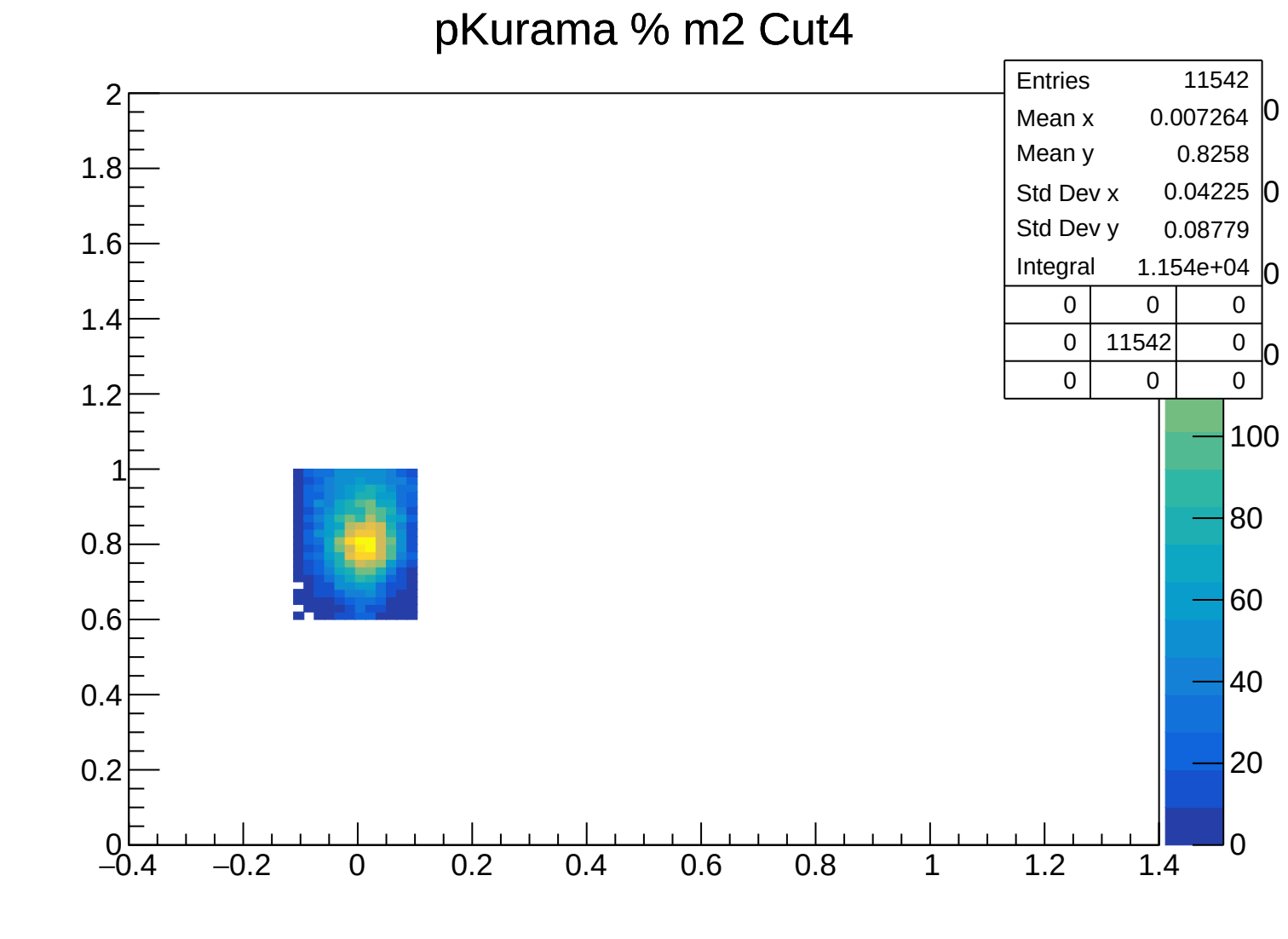

pKurama % m2 Cut1
Entries 38505
Mean x 0.0316
Mean y 1.046
Std Dev x 0.1399
Std Dev y 0.2239
Integral 3.686e+04
0 1 1
1305 36855 343
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
140
120
100
80
60
40
20
0

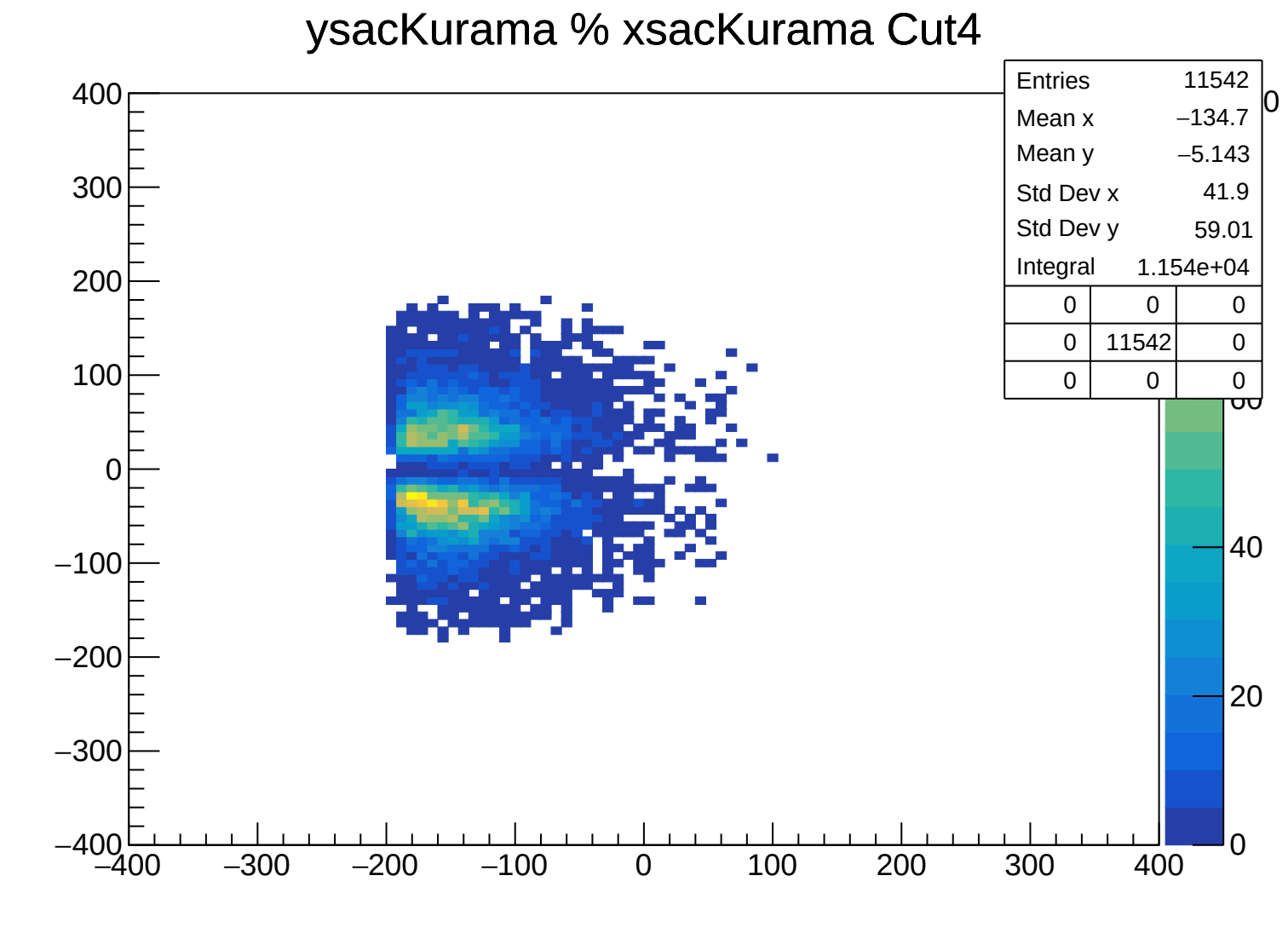

ysacKurama % xsacKurama
Entries 98544
Mean x −113.4
Mean y −1.644
Std Dev x 82.69
Std Dev y 75.55
Integral 9.854e+04
0 0 0
0 98544 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
200
150
100
50
0

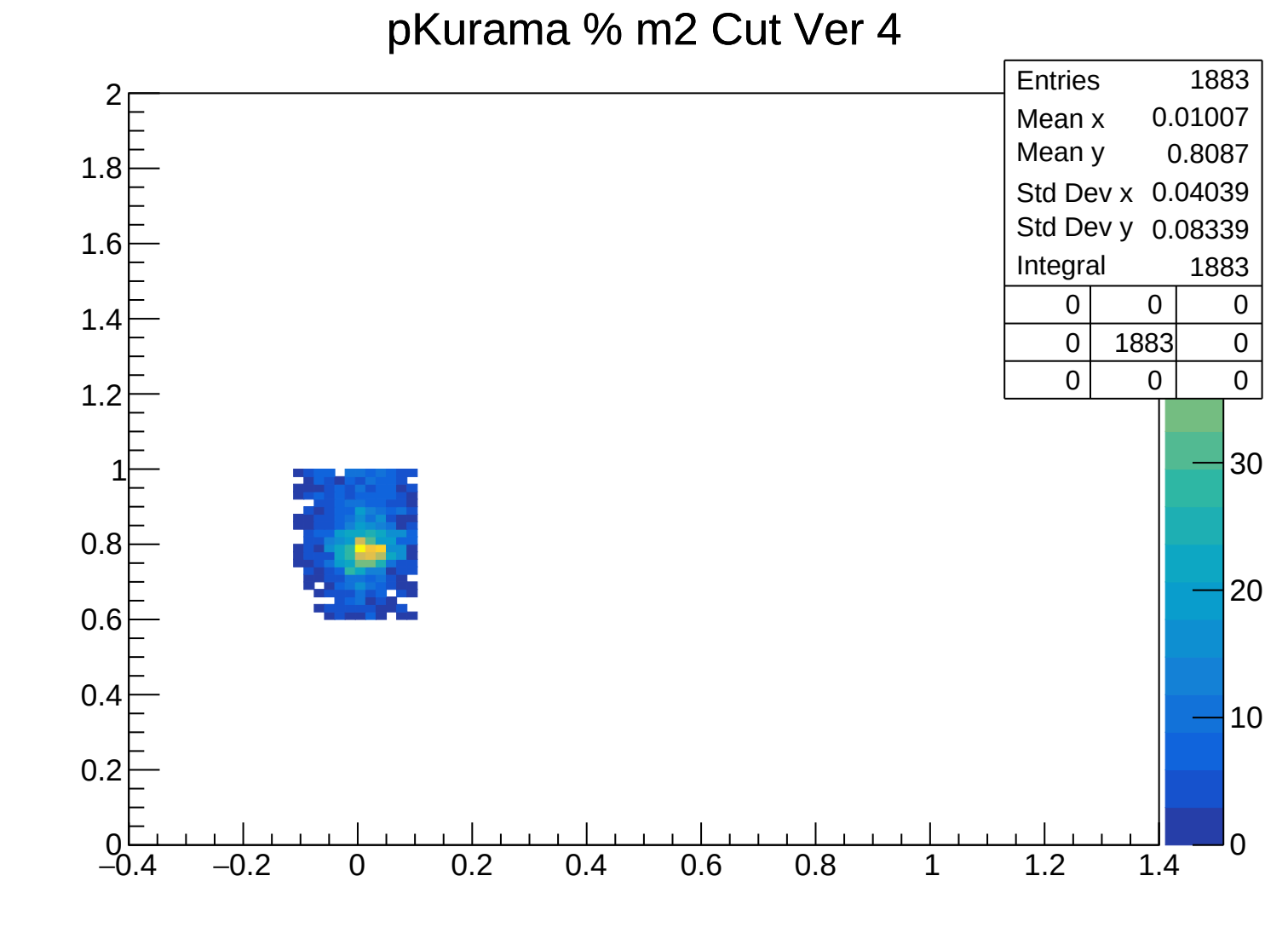

ysacKurama % xsacKurama Cut1
Entries 38505
Mean x −128.8
Mean y −1.863
Std Dev x 55.58
Std Dev y 70.3
Integral 3.85e+04
0 0 0
0 38505 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
120
100
80
60
40
20
0

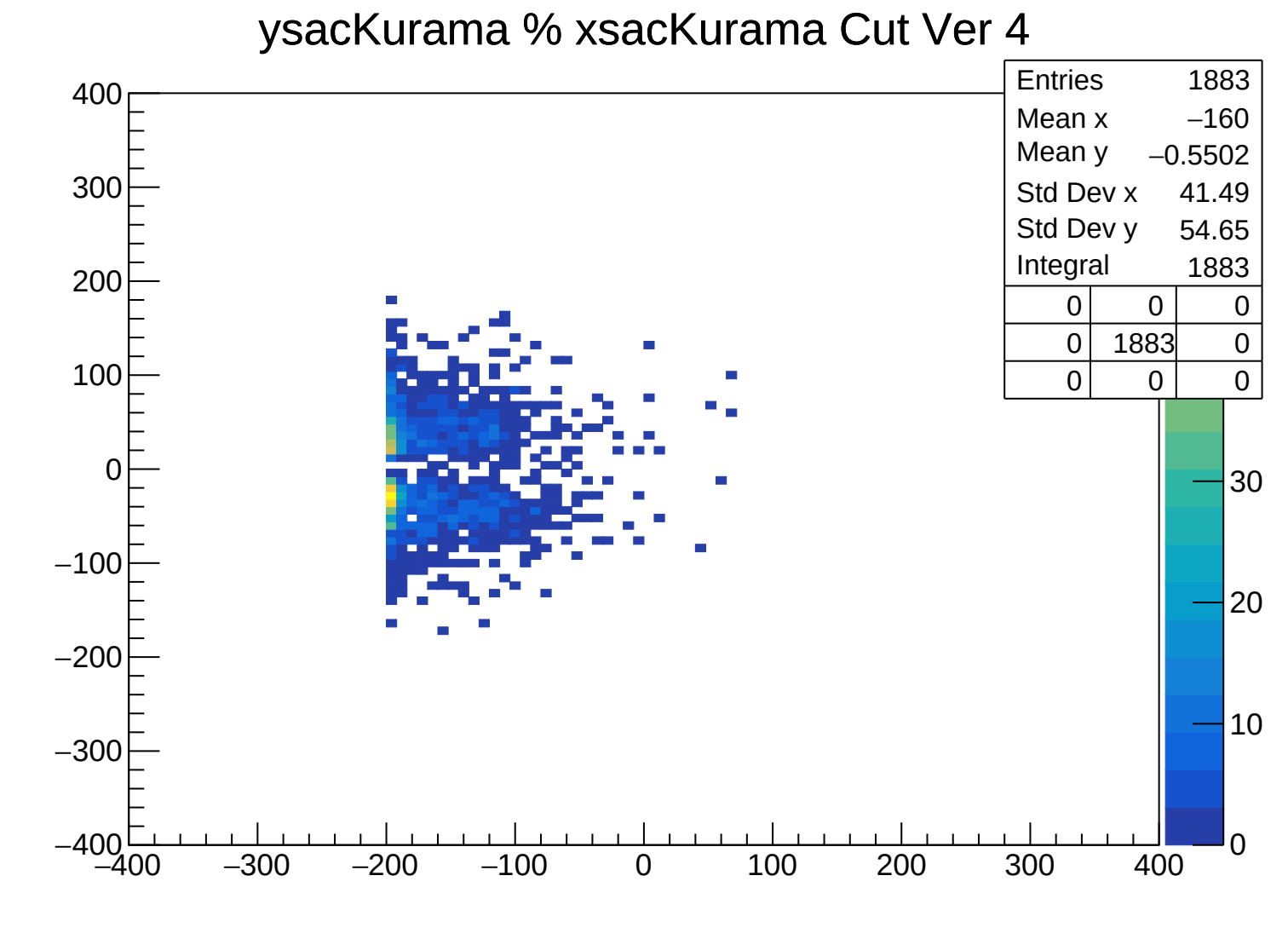

pKurama % m2 Cut3
Entries 13425
Mean x 0.007657
Mean y 0.8234
Std Dev x 0.04201
Std Dev y 0.08739
Integral 1.342e+04
0 0 0
0 13425 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
120
100
80
60
40
20
0

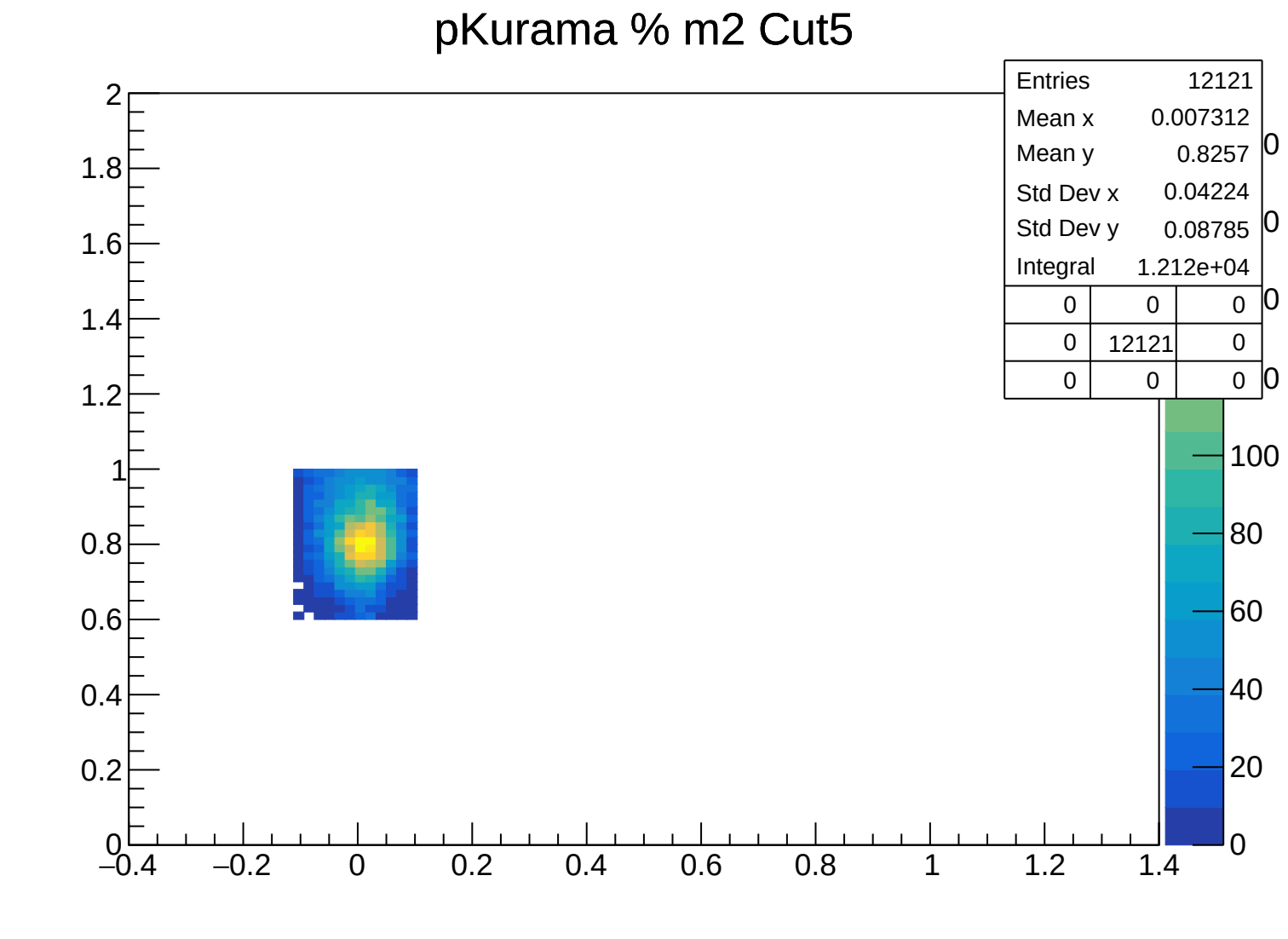

ysacKurama % xsacKurama Cut3
Entries 13425
Mean x −138.2
Mean y −4.499
Std Dev x 42.76
Std Dev y 58.44
Integral 1.342e+04
0 0 0
0 13425 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
60
40
20
0

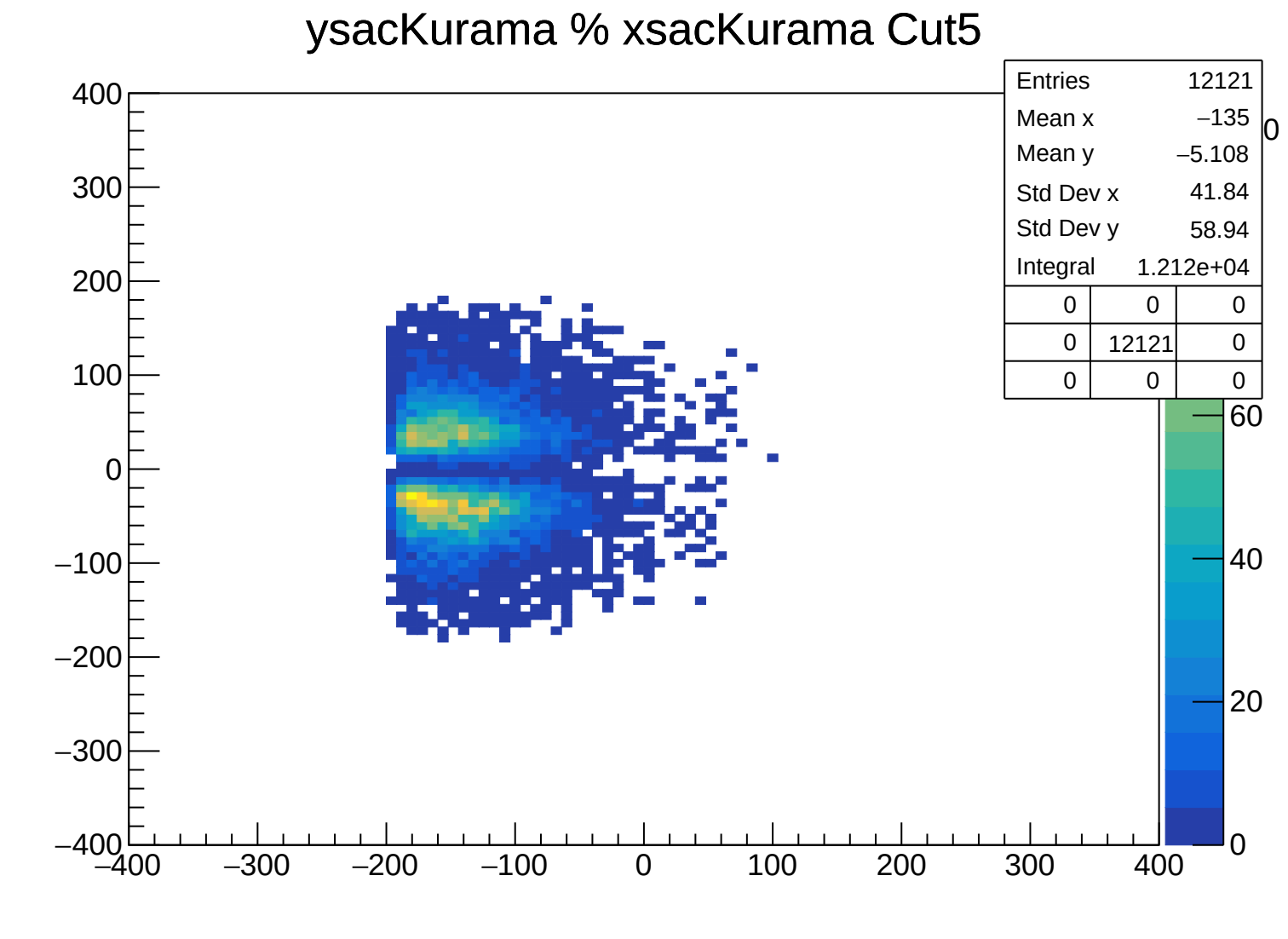

pKurama % m2 Cut4
Entries 11542
Mean x 0.007264
Mean y 0.8258
Std Dev x 0.04225
Std Dev y 0.08779
Integral 1.154e+04
0 0 0
0 11542 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
100
80
60
40
20
0

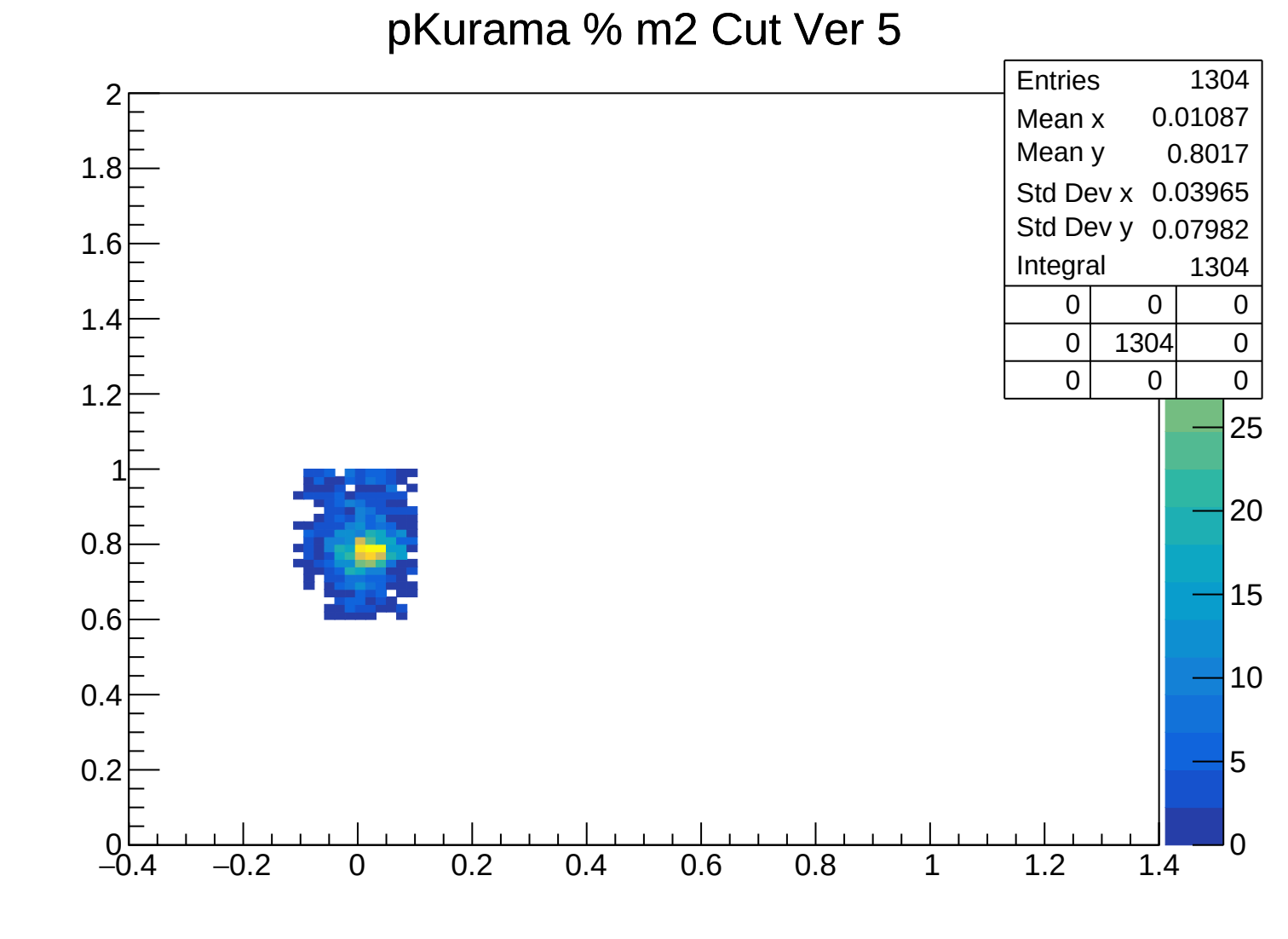

ysacKurama % xsacKurama Cut4
Entries 11542
Mean x −134.7
Mean y −5.143
Std Dev x 41.9
Std Dev y 59.01
Integral 1.154e+04
0 0 0
0 11542 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
40
20
0

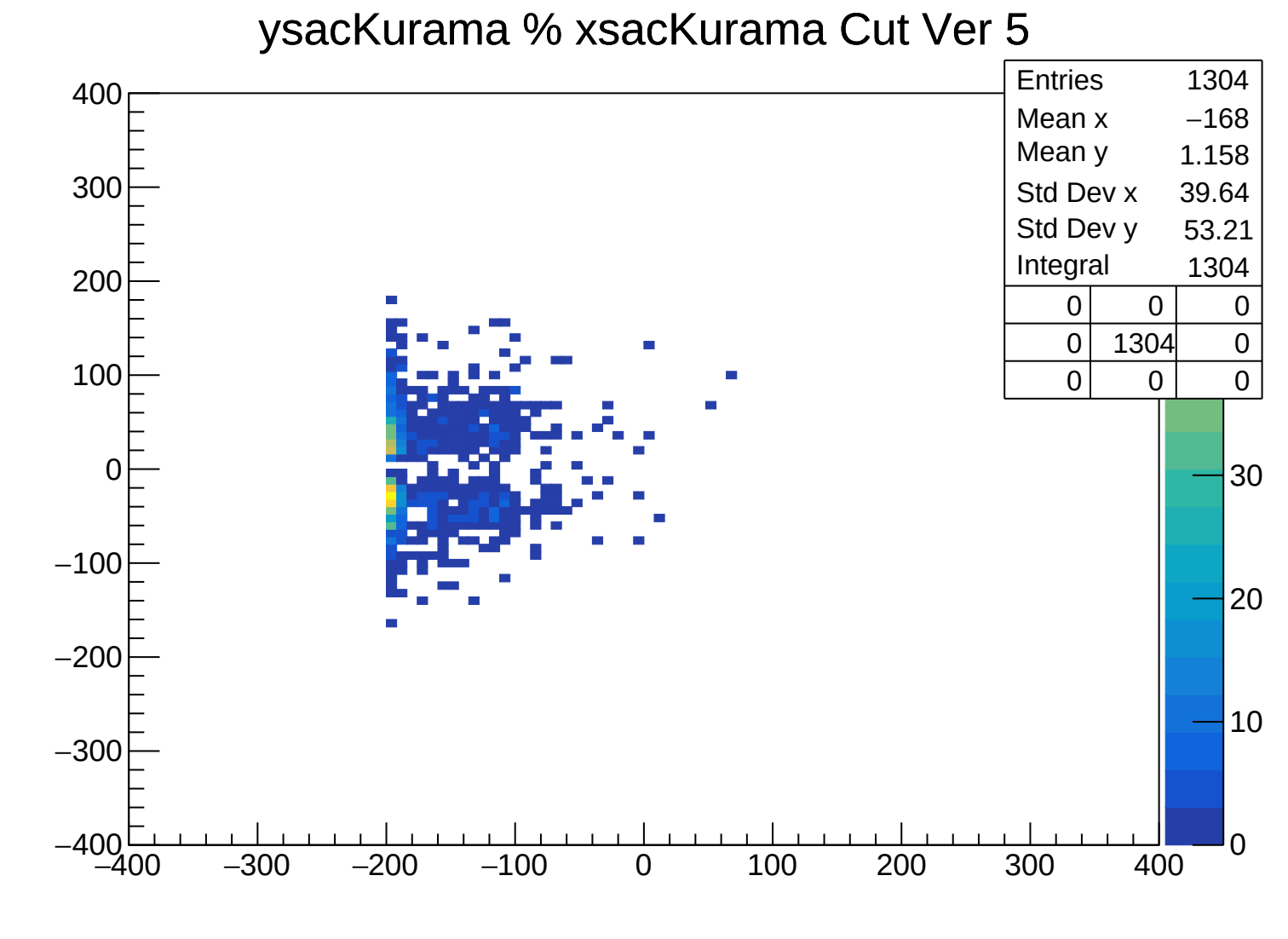

pKurama % m2 Cut Ver 4
Entries 1883
Mean x 0.01007
Mean y 0.8087
Std Dev x 0.04039
Std Dev y 0.08339
Integral 1883
0 0 0
0 1883 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0


ysacKurama % xsacKurama Cut Ver 4
Entries 1883
Mean x –160
Mean y –0.5502
Std Dev x 41.49
Std Dev y 54.65
Integral 1883
0 0 0
0 1883 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
30
20
10
0


pKurama % m2 Cut5
Entries 12121
Mean x 0.007312
Mean y 0.8257
Std Dev x 0.04224
Std Dev y 0.08785
Integral 1.212e+04
0 0 0
0 12121 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
100
80
60
40
20
0


ysacKurama % xsacKurama Cut5
Entries 12121
Mean x −135
Mean y −5.108
Std Dev x 41.84
Std Dev y 58.94
Integral 1.212e+04
0 0 0
0 12121 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
60
40
20
0


pKurama % m2 Cut Ver 5
Entries 1304
Mean x 0.01087
Mean y 0.8017
Std Dev x 0.03965
Std Dev y 0.07982
Integral 1304
0 0 0
0 1304 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
25
20
15
10
5
0


ysacKurama % xsacKurama Cut Ver 5
Entries 1304
Mean x −168
Mean y 1.158
Std Dev x 39.64
Std Dev y 53.21
Integral 1304
0 0 0
0 1304 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
30
20
10
0