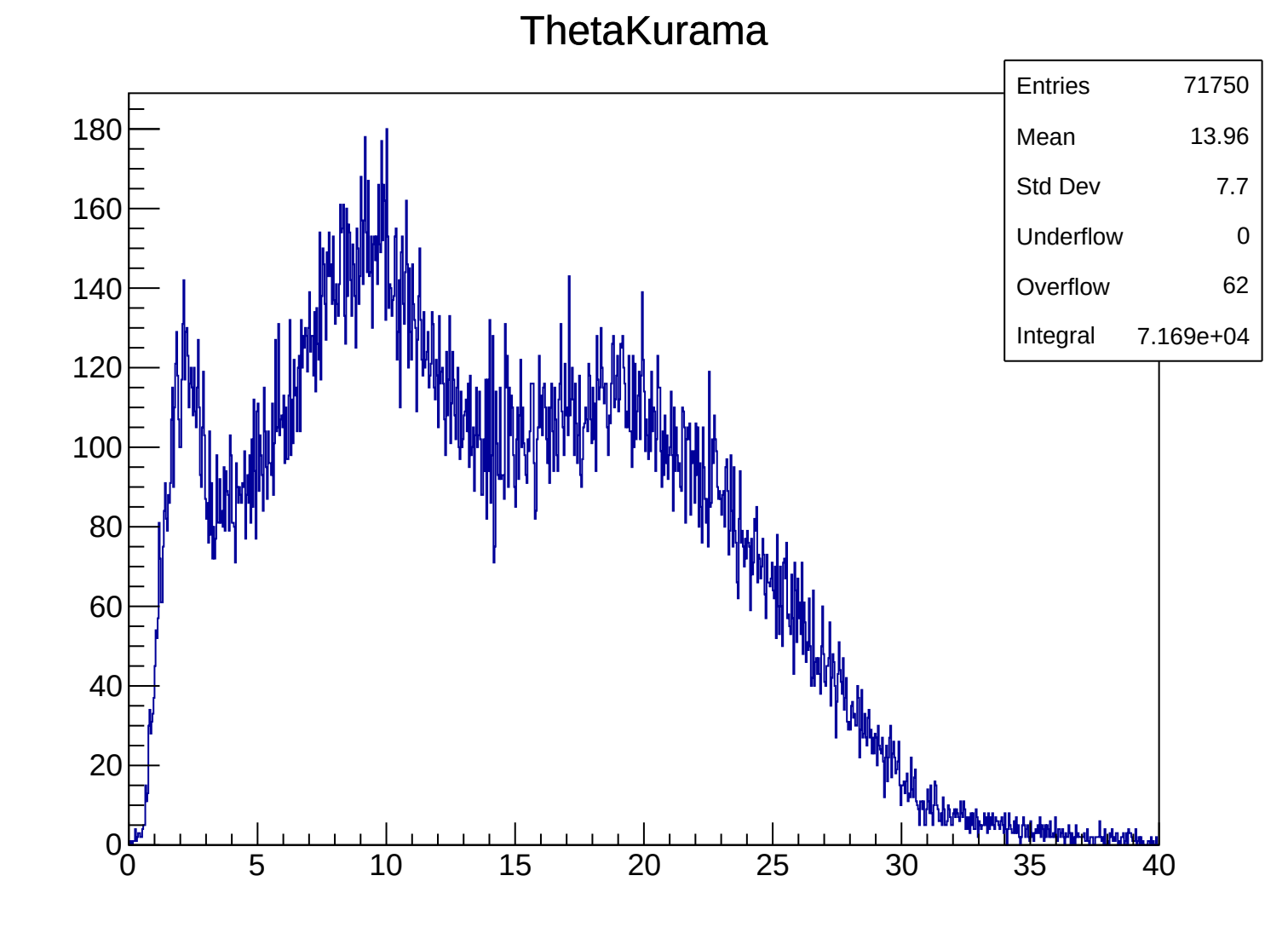
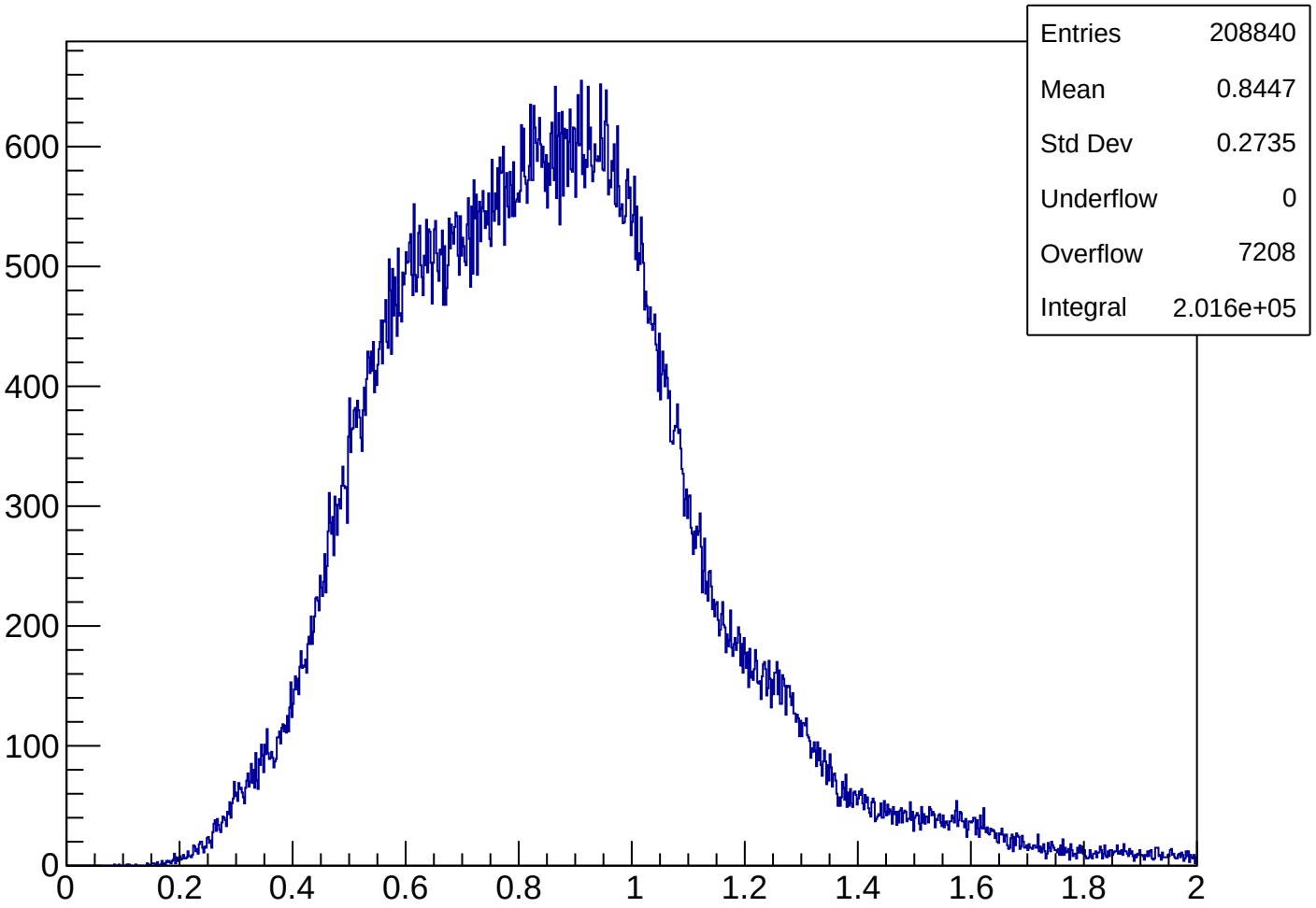
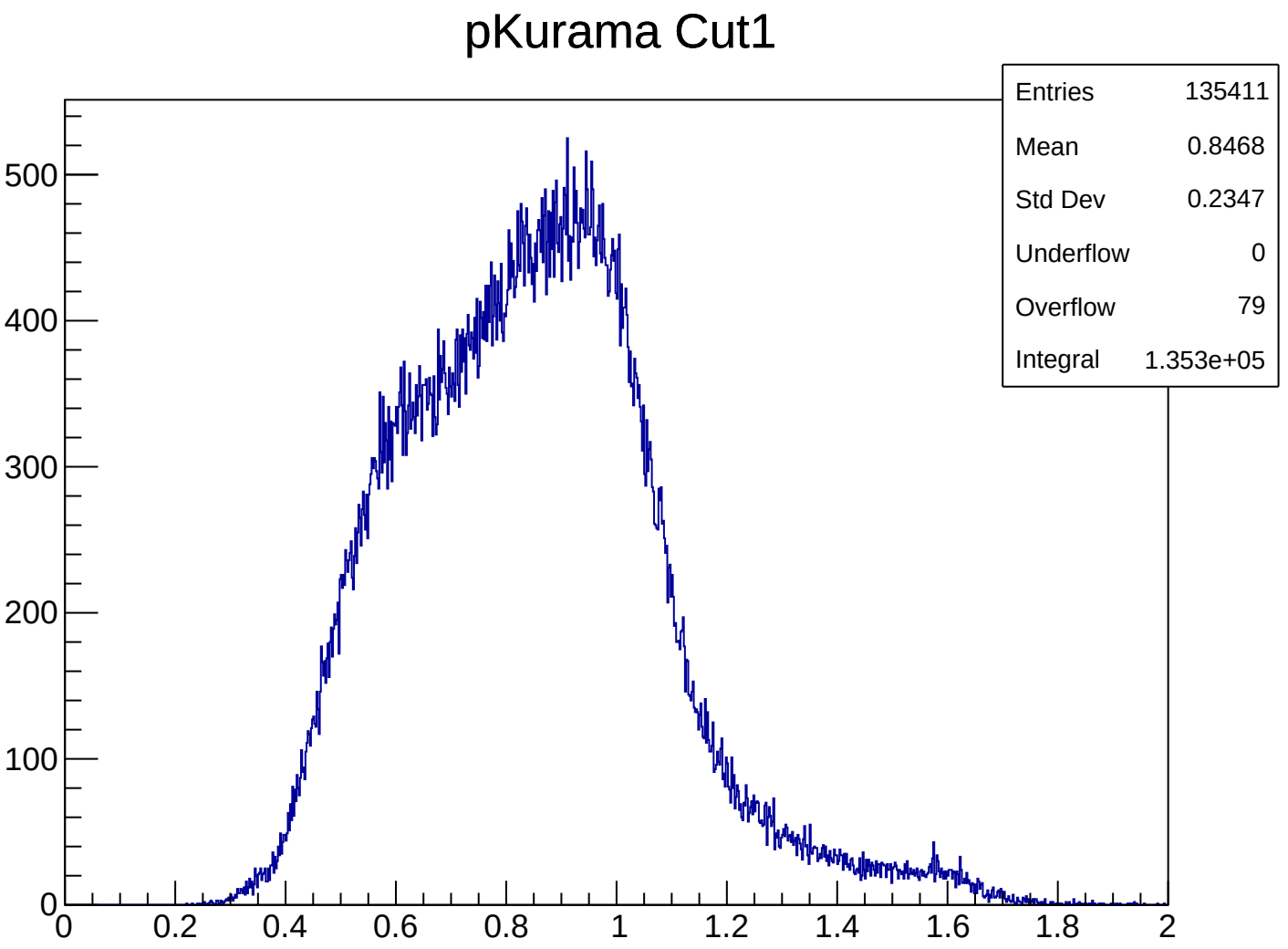
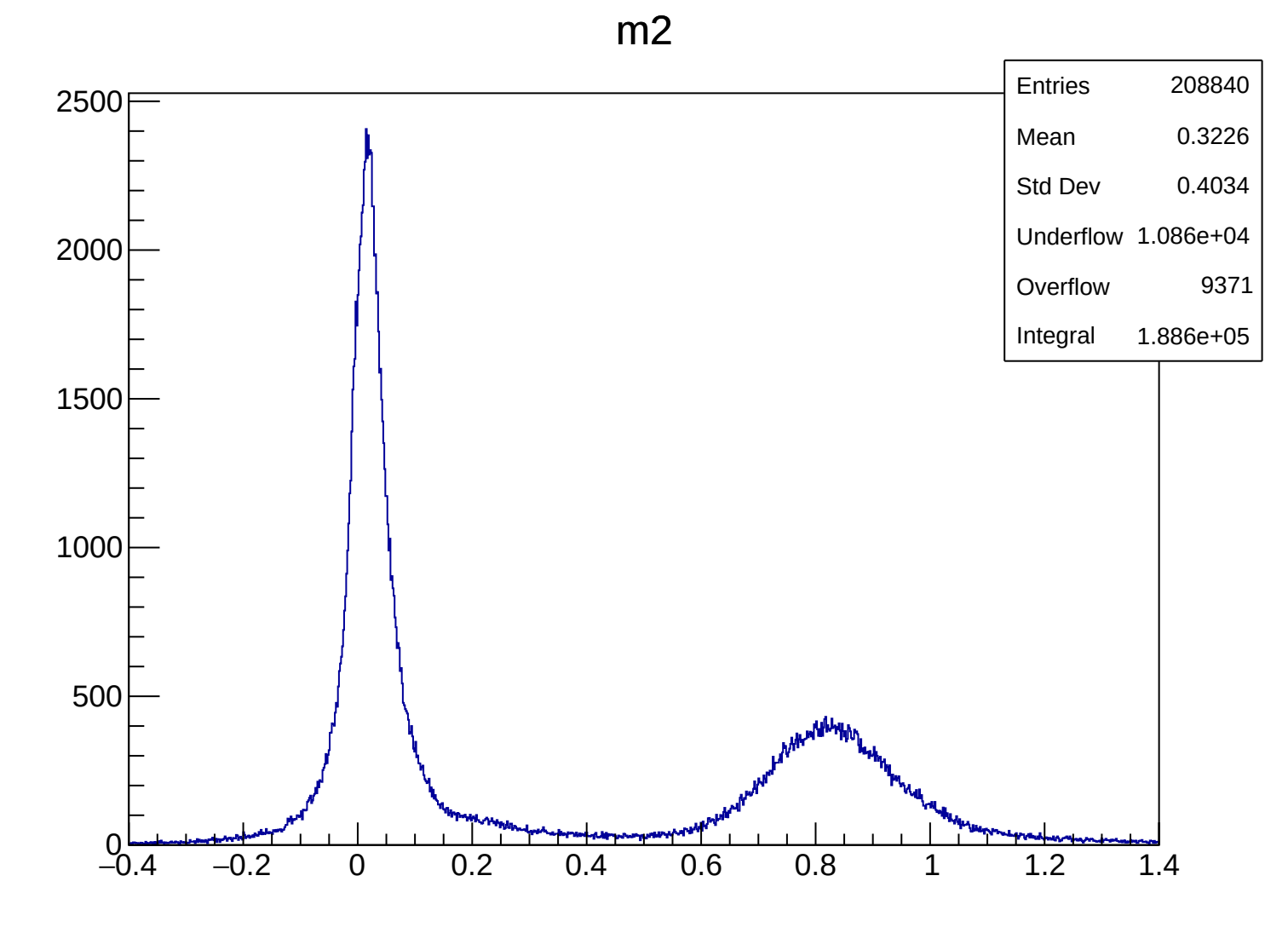
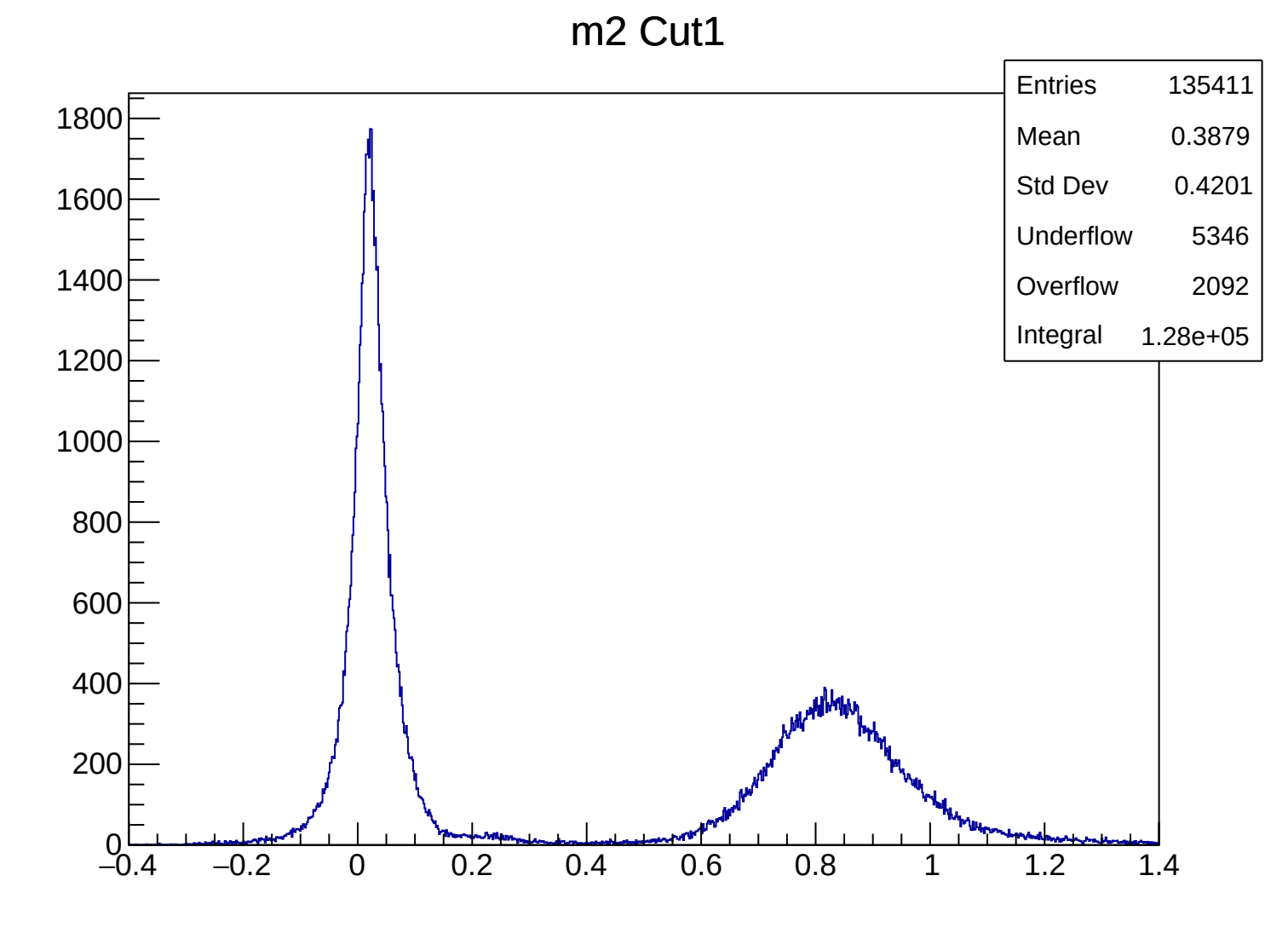
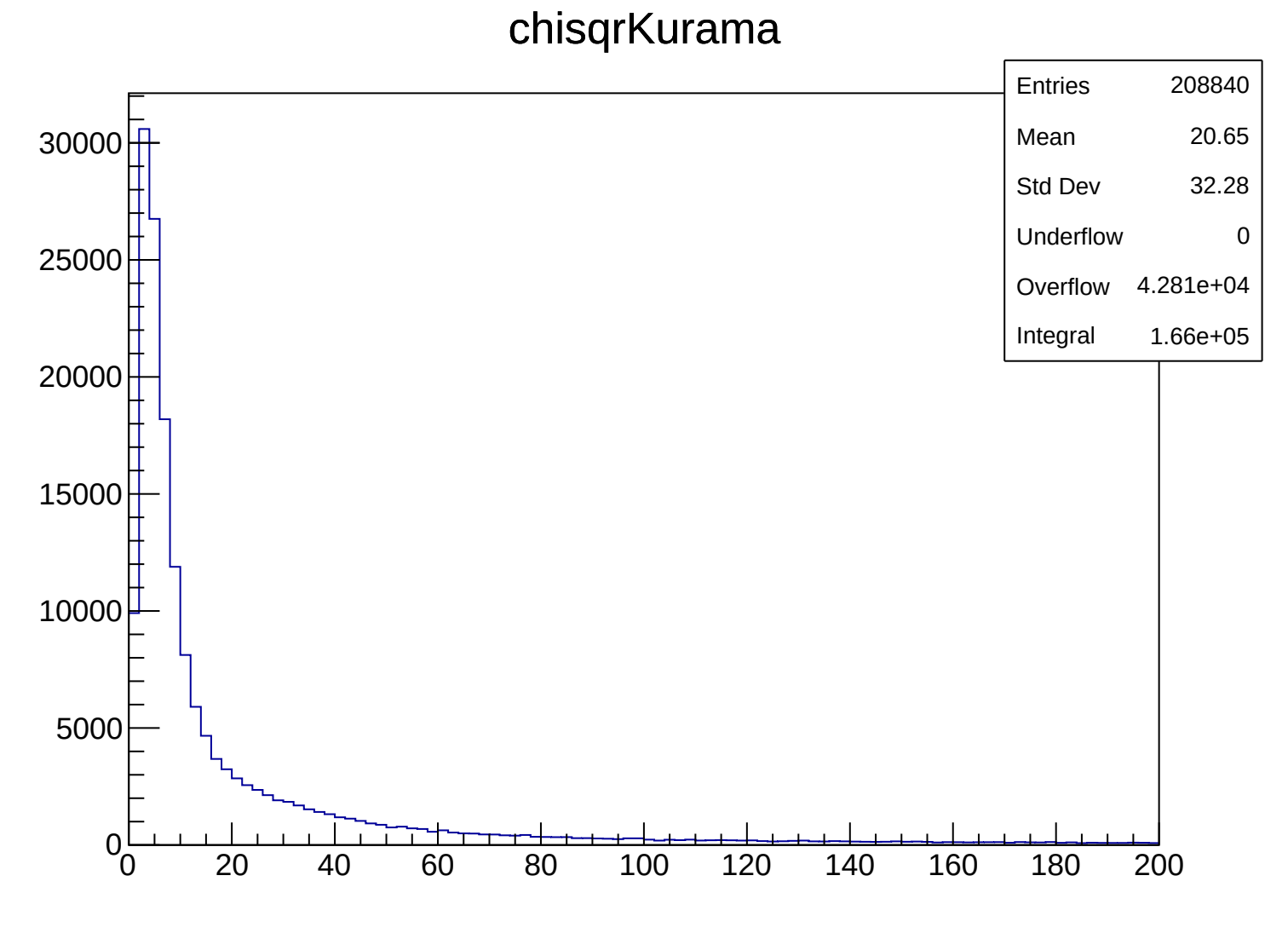

ThetaKurama
Entries 71750
Mean 13.96
Std Dev 7.7
Underflow 0
Overflow 62
Integral 7.169e+04
0
20
40
60
80
100
120
140
160
180
0
5
10
15
20
25
30
35
40

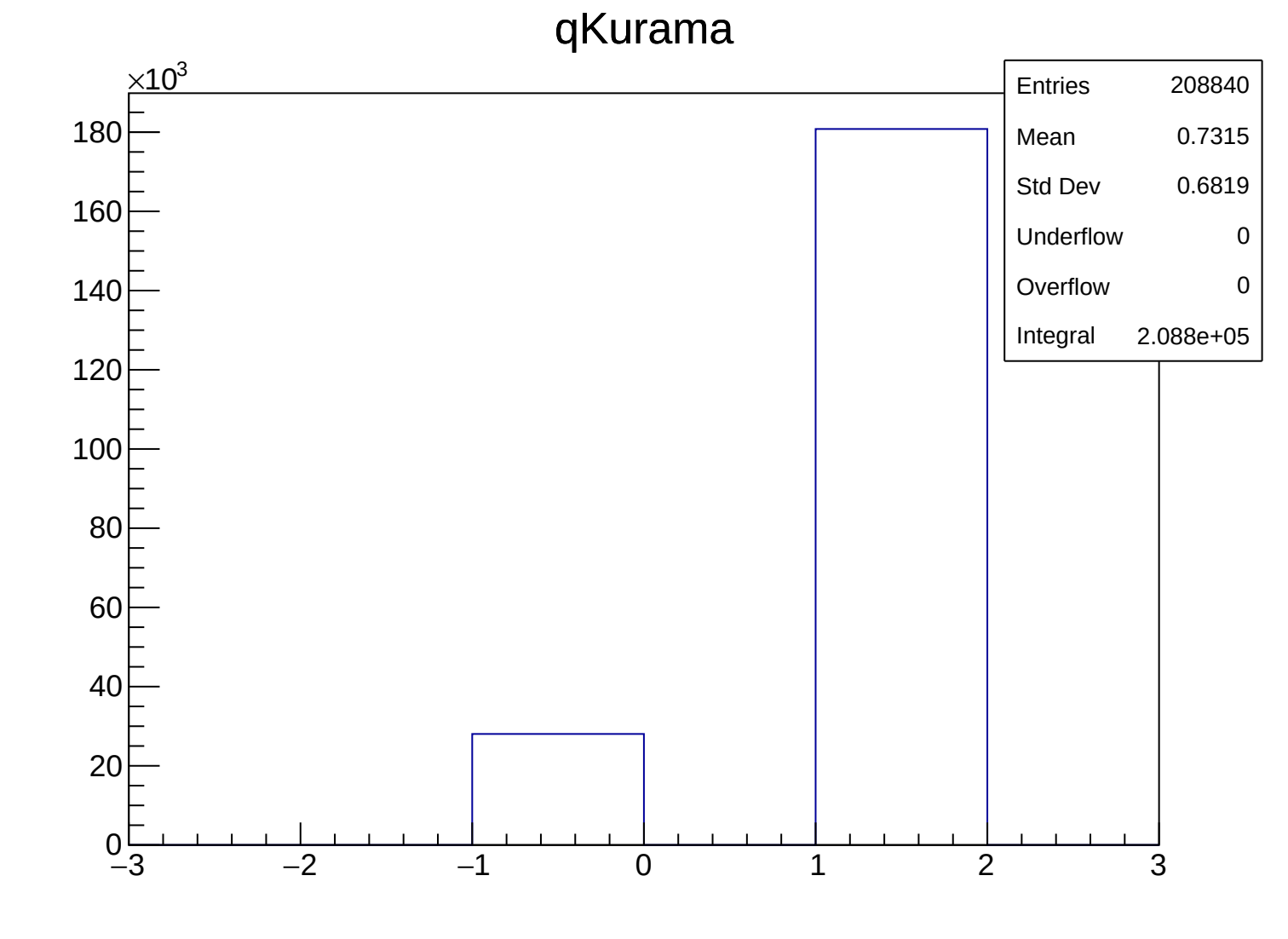

pKurama
Entries 208840
Mean 0.8447
Std Dev 0.2735
Underflow 0
Overflow 7208
Integral 2.016e+05
600
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

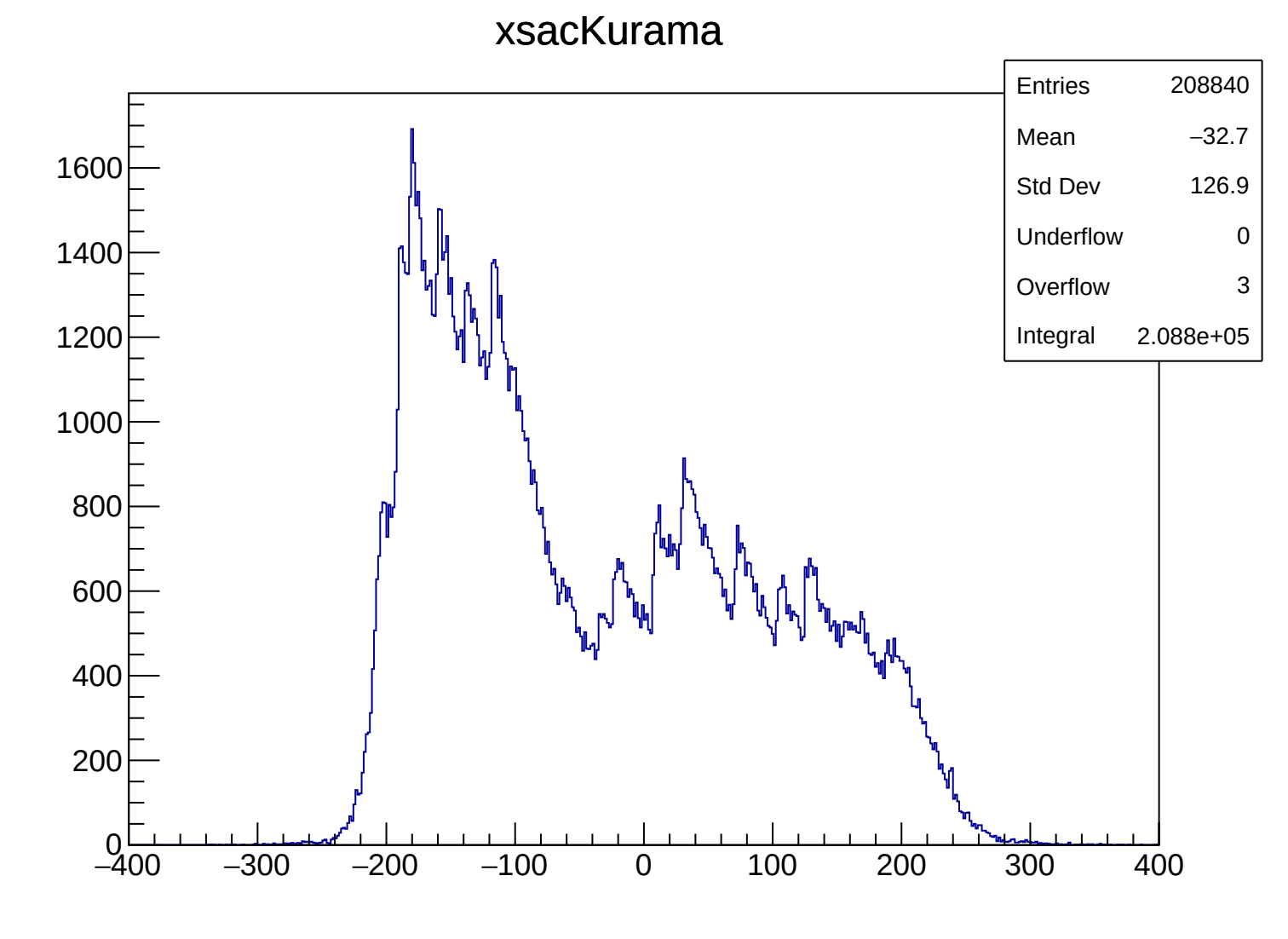

pKurama Cut1
Entries 135411
Mean 0.8468
Std Dev 0.2347
Underflow 0
Overflow 79
Integral 1.353e+05
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

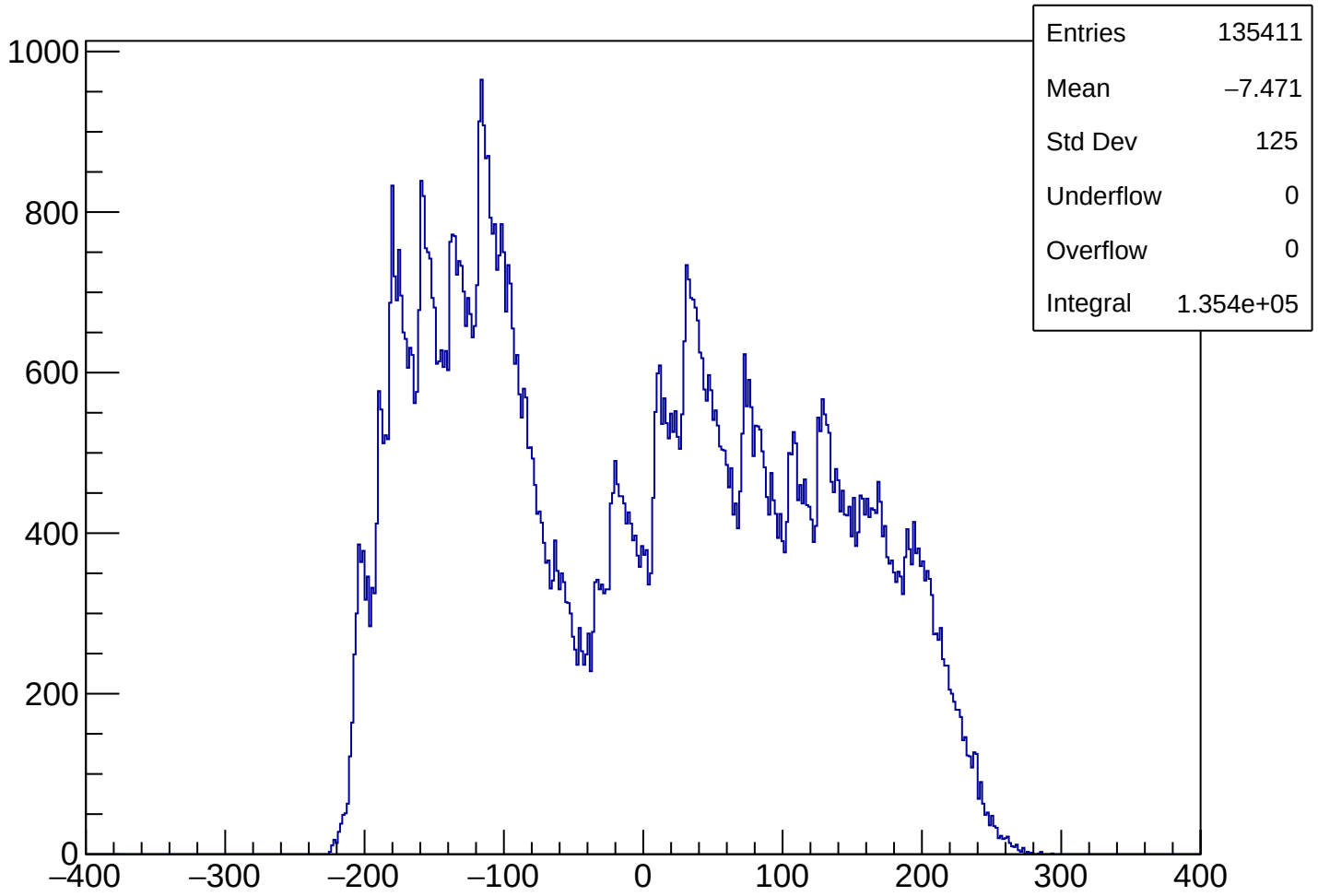

m2
Entries 208840
Mean 0.3226
Std Dev 0.4034
Underflow 1.086e+04
Overflow 9371
Integral 1.886e+05
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

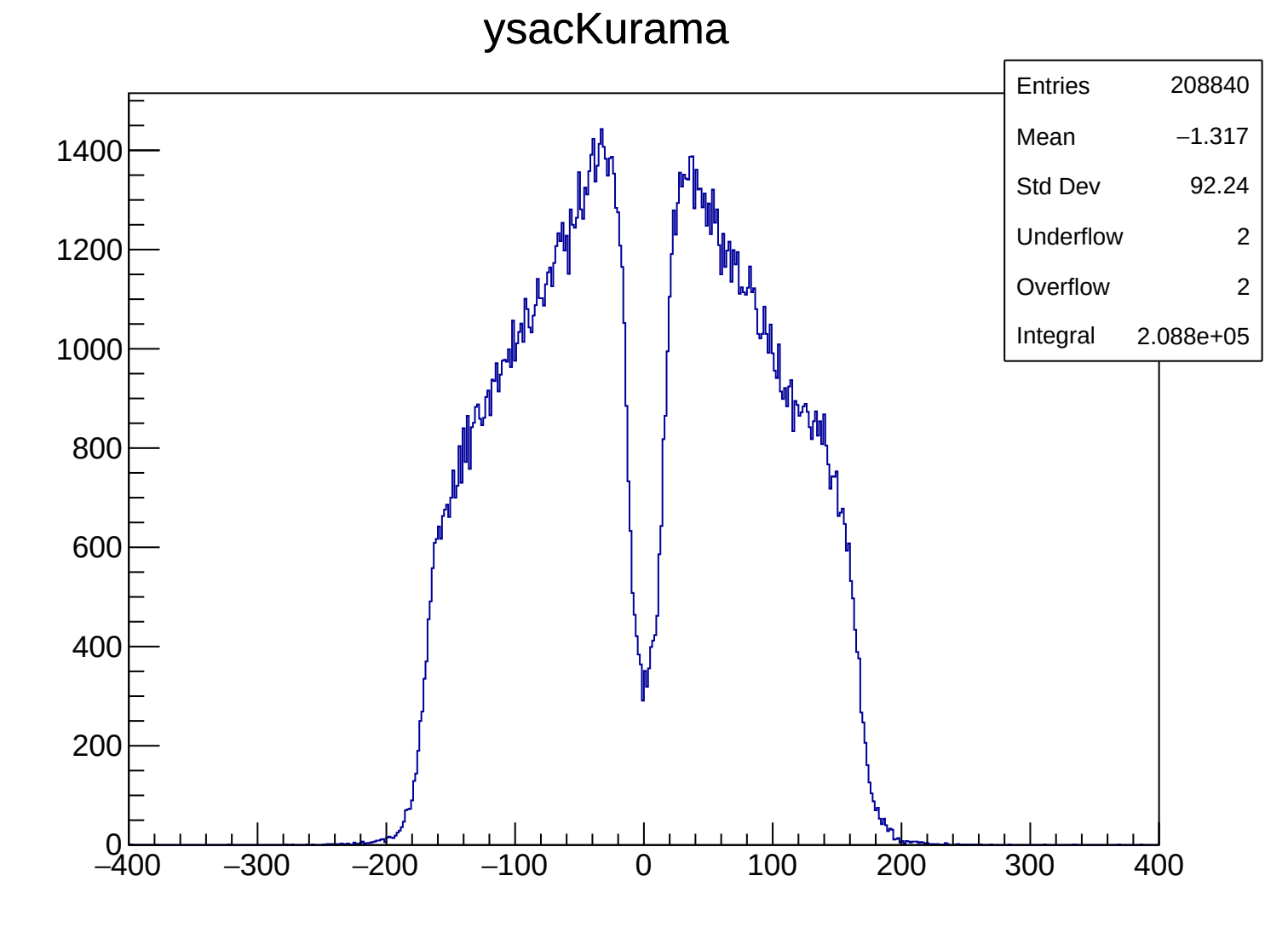

m2 Cut1
Entries 135411
Mean 0.3879
Std Dev 0.4201
Underflow 5346
Overflow 2092
Integral 1.28e+05
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

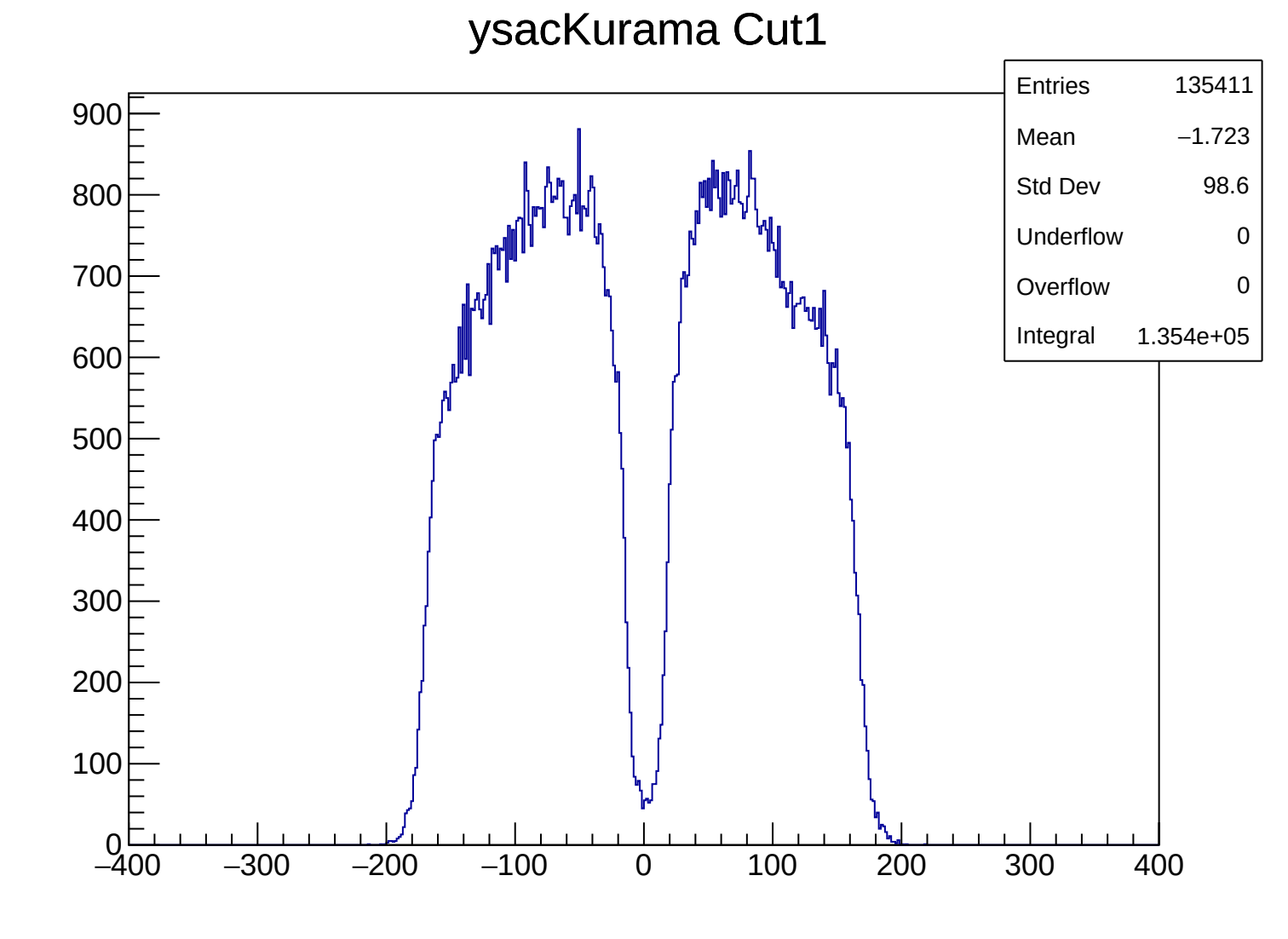

chisqrKurama
Entries 208840
Mean 20.65
Std Dev 32.28
Underflow 0
Overflow 4.281e+04
Integral 1.66e+05
30000
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

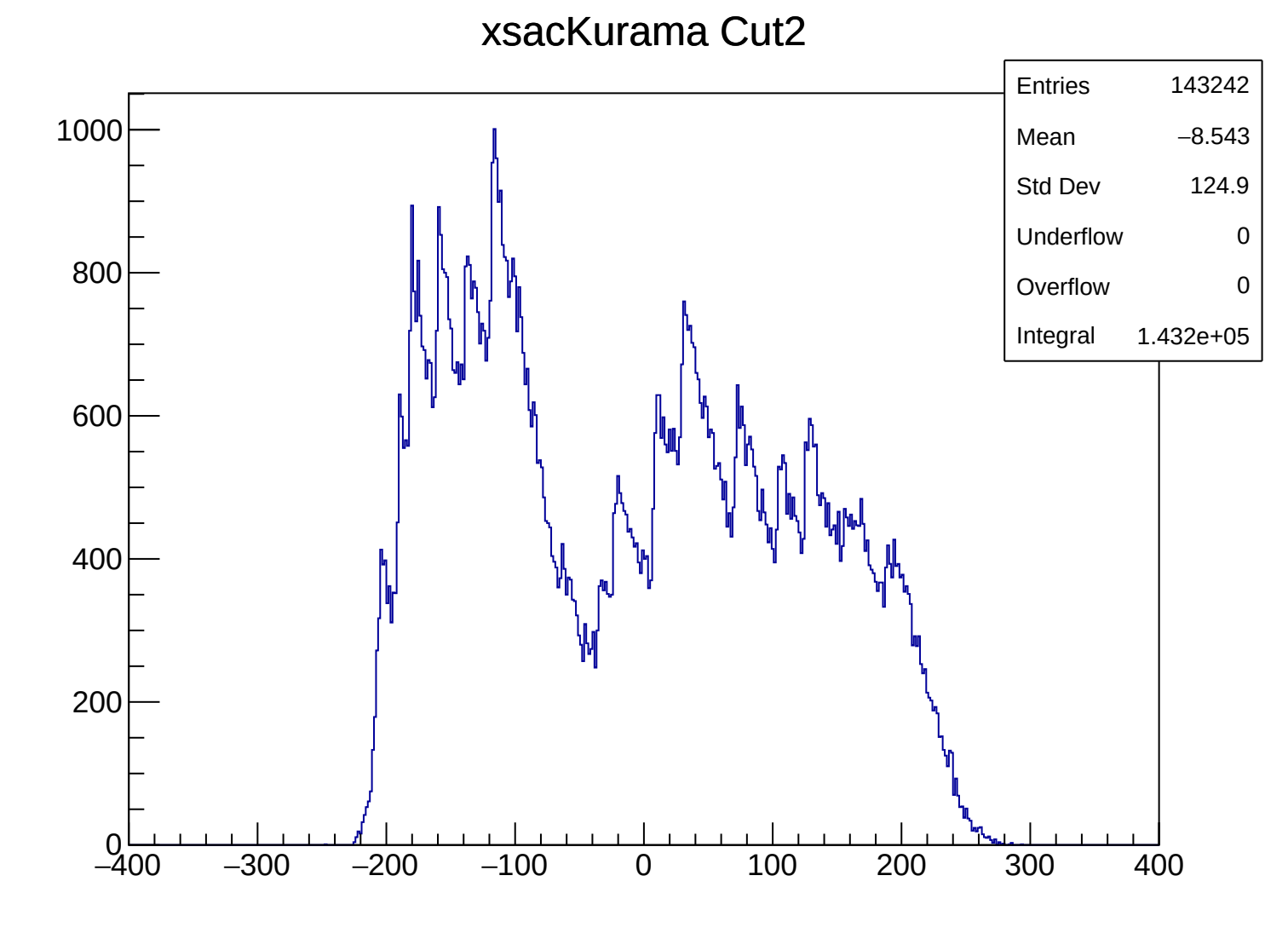

qKurama
×10^3
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 208840
Mean 0.7315
Std Dev 0.6819
Underflow 0
Overflow 0
Integral 2.088e+05

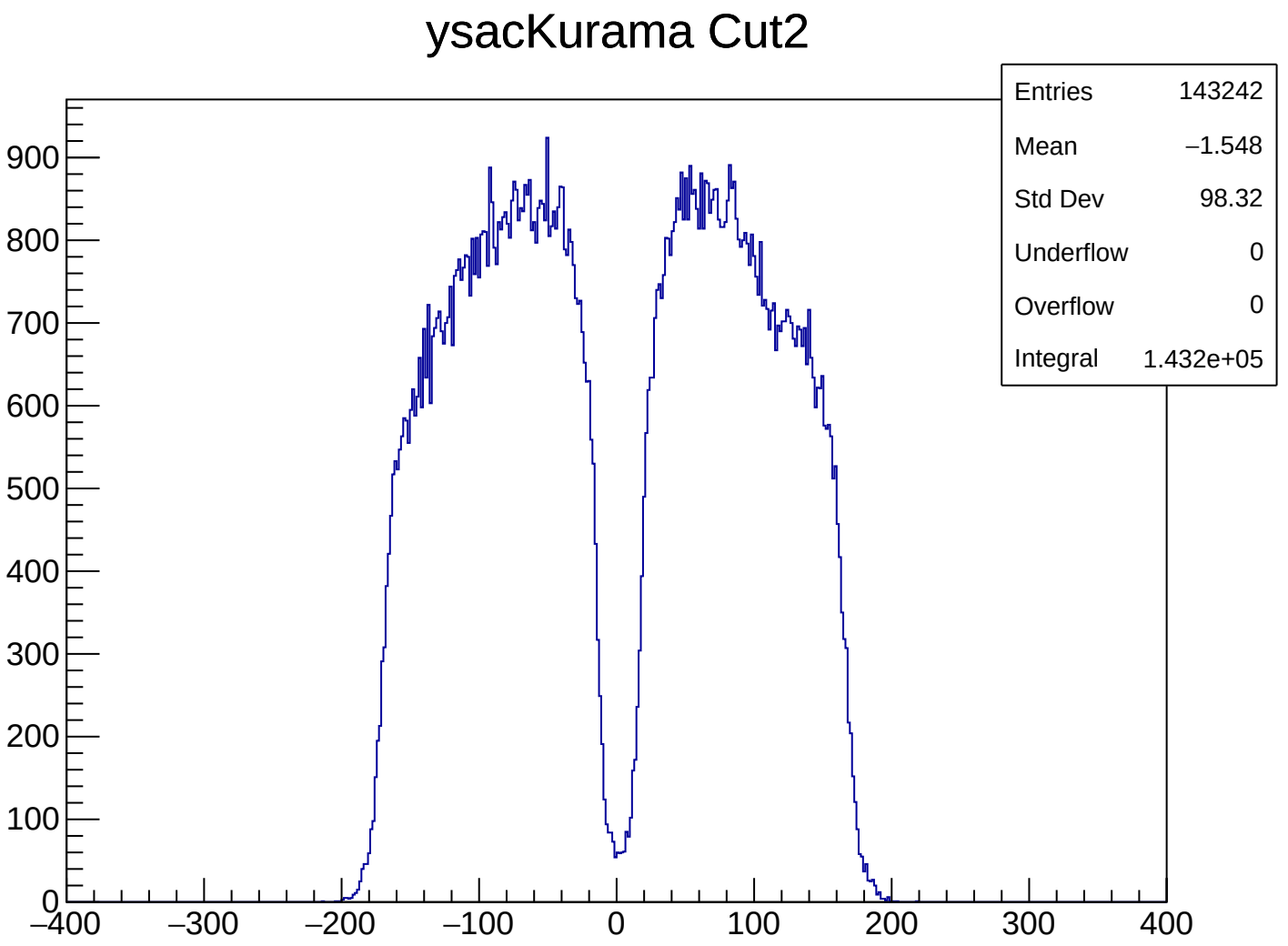

xsacKurama
Entries 208840
Mean –32.7
Std Dev 126.9
Underflow 0
Overflow 3
Integral 2.088e+05
1600
1400
1200
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

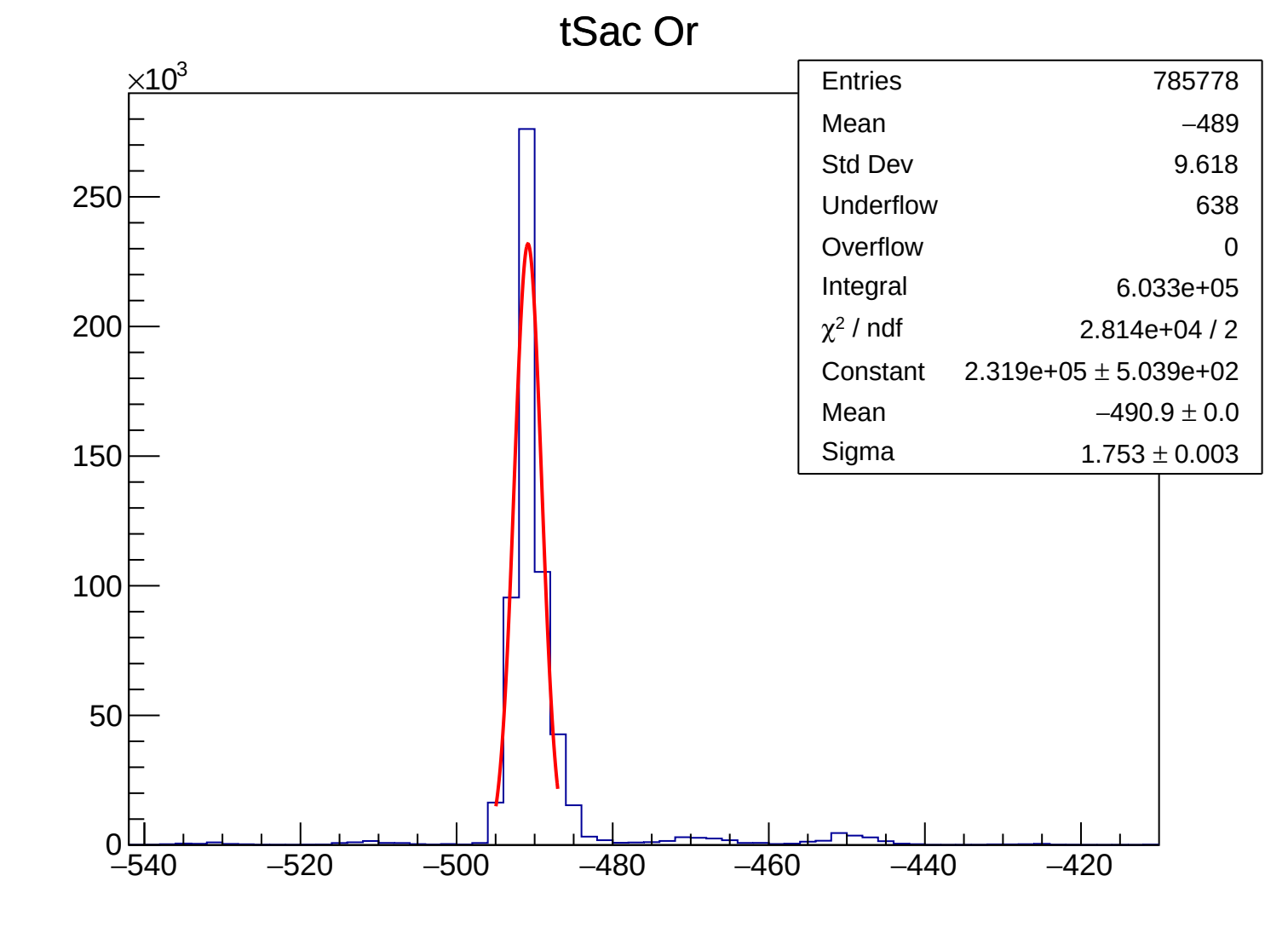

xsacKurama Cut1
Entries 135411
Mean −7.471
Std Dev 125
Underflow 0
Overflow 0
Integral 1.354e+05
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

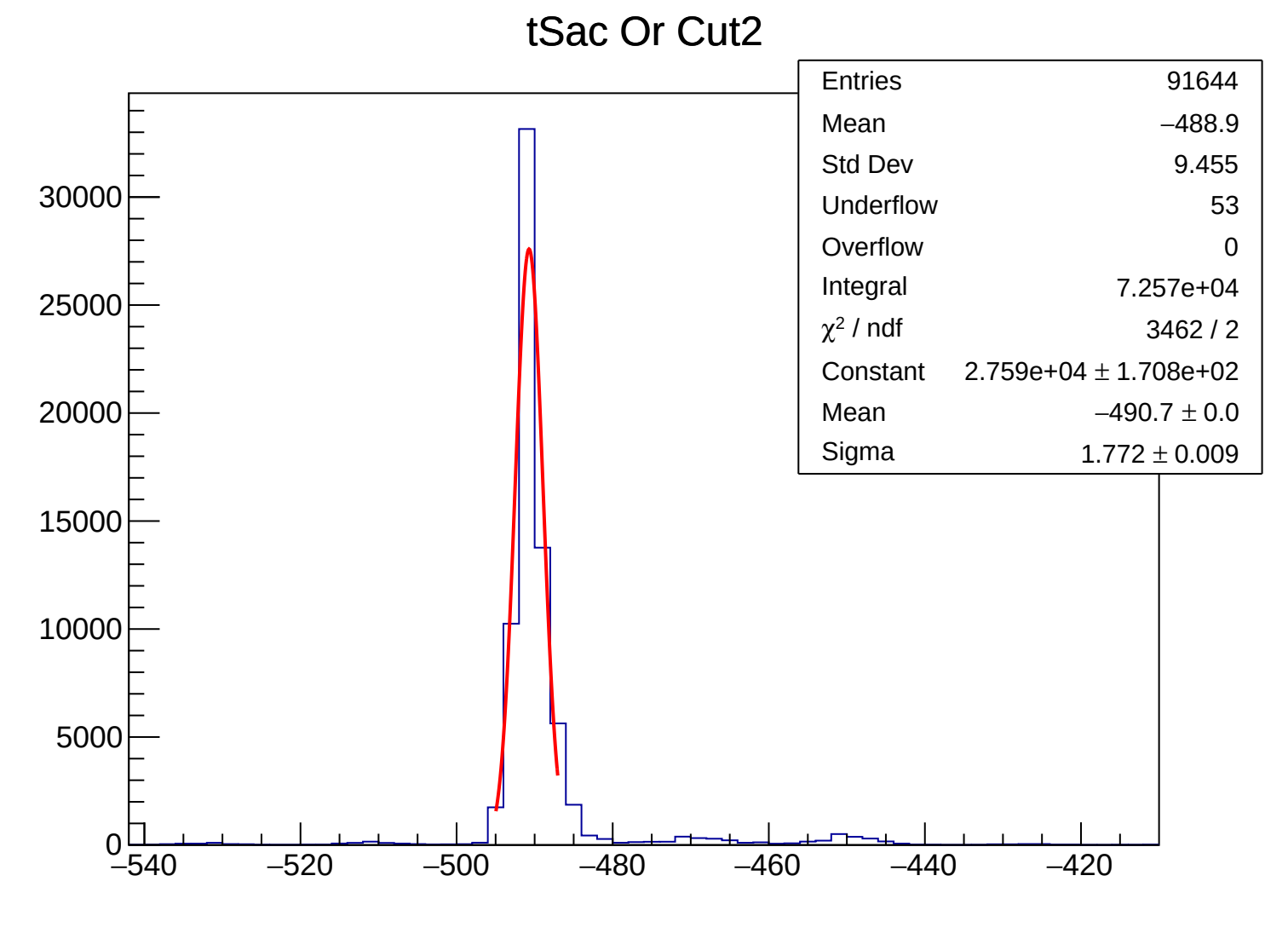

ysacKurama
Entries 208840
Mean −1.317
Std Dev 92.24
Underflow 2
Overflow 2
Integral 2.088e+05
1400
1200
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

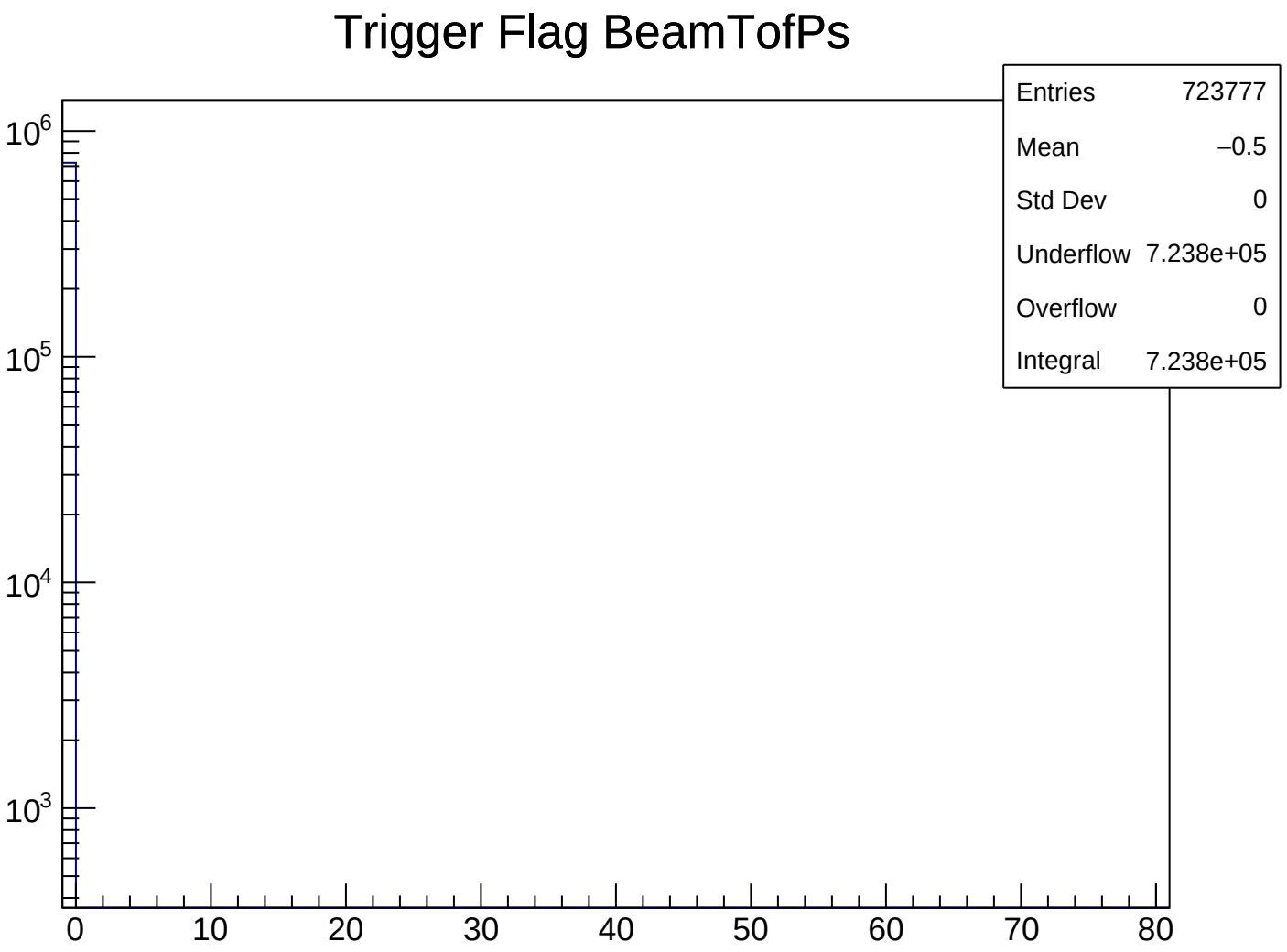

ysacKurama Cut1
Entries 135411
Mean −1.723
Std Dev 98.6
Underflow 0
Overflow 0
Integral 1.354e+05
900
800
700
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

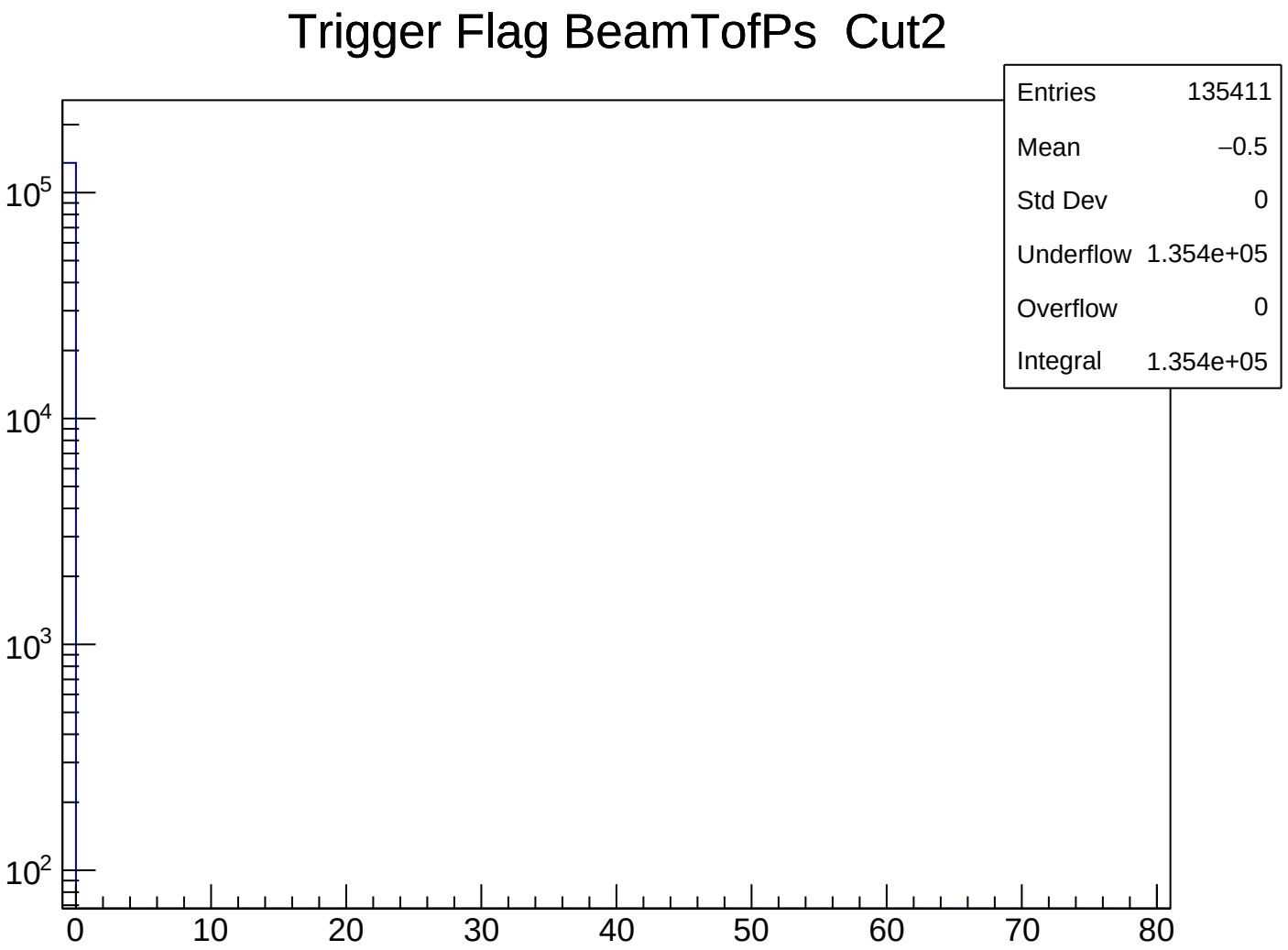

xsacKurama Cut2
Entries 143242
Mean −8.543
Std Dev 124.9
Underflow 0
Overflow 0
Integral 1.432e+05
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

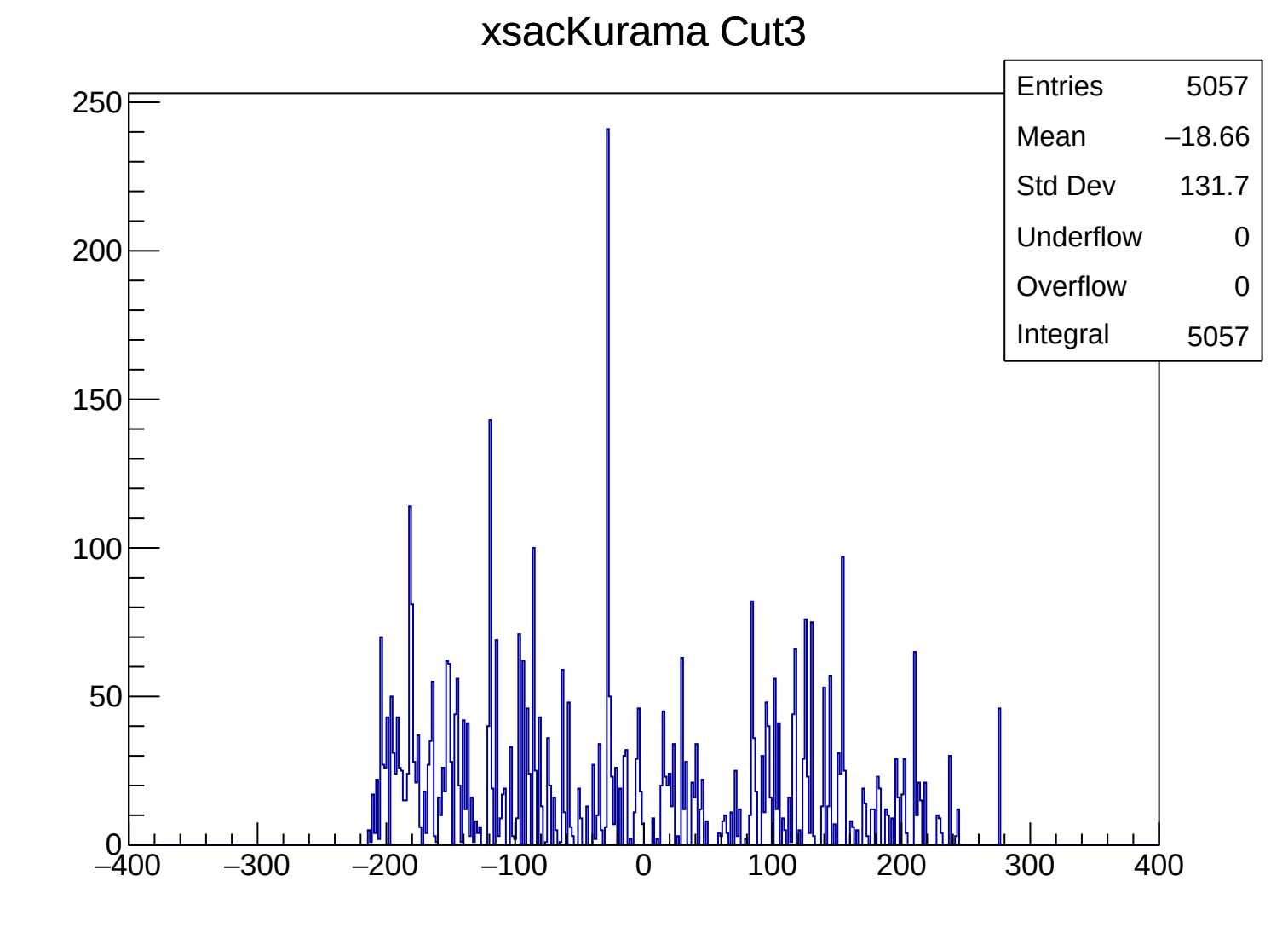

ysacKurama Cut2
Entries 143242
Mean −1.548
Std Dev 98.32
Underflow 0
Overflow 0
Integral 1.432e+05
900
800
700
600
500
400
300
200
100
0
−400
−300
−200
−100
0
100
200
300
400

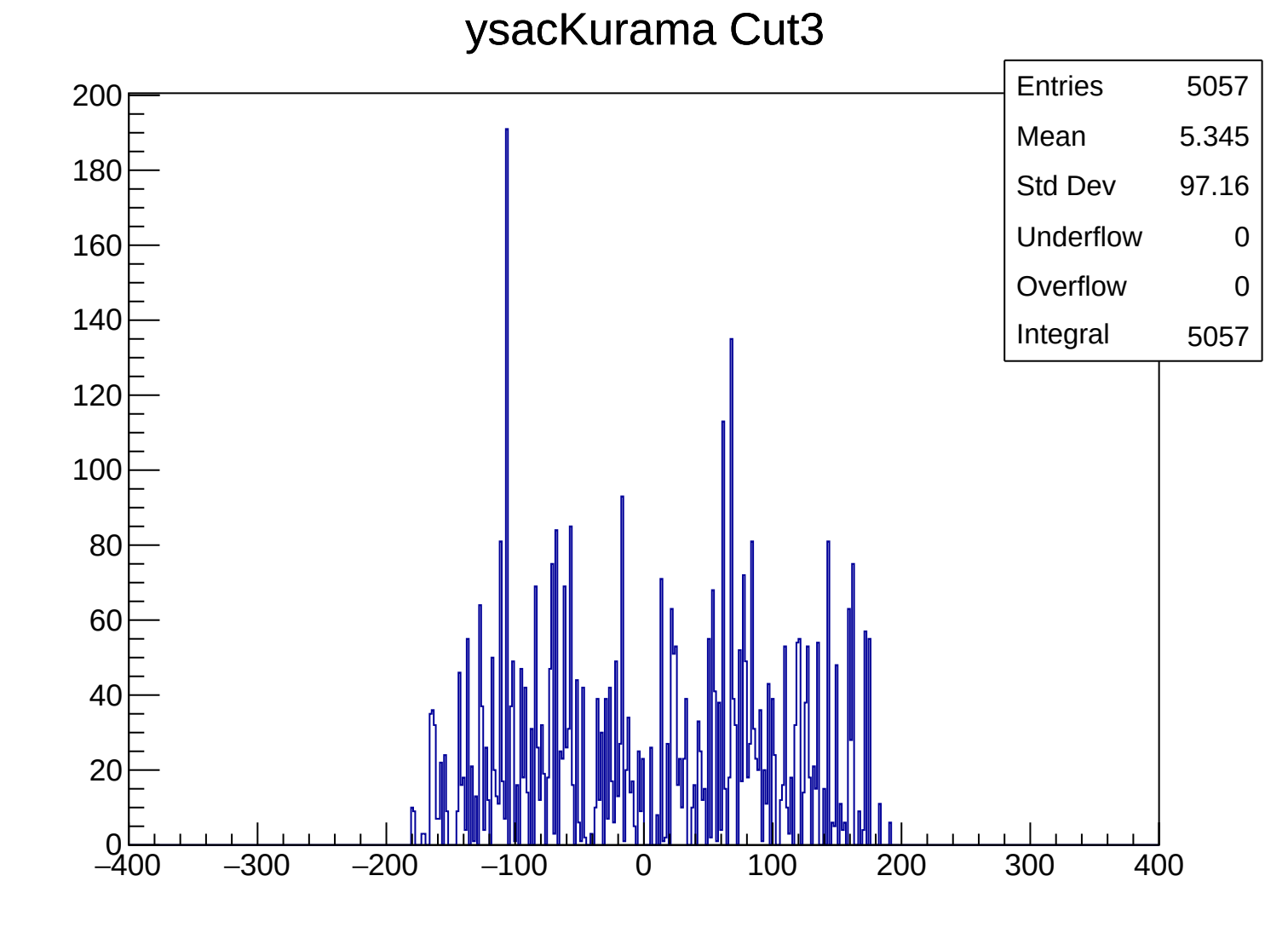

tSac Or
×10^3
250
200
150
100
50
0
−540
−520
−500
−480
−460
−440
−420
Entries 785778
Mean −489
Std Dev 9.618
Underflow 638
Overflow 0
Integral 6.033e+05
χ² / ndf 2.814e+04 / 2
Constant 2.319e+05 ± 5.039e+02
Mean −490.9 ± 0.0
Sigma 1.753 ± 0.003

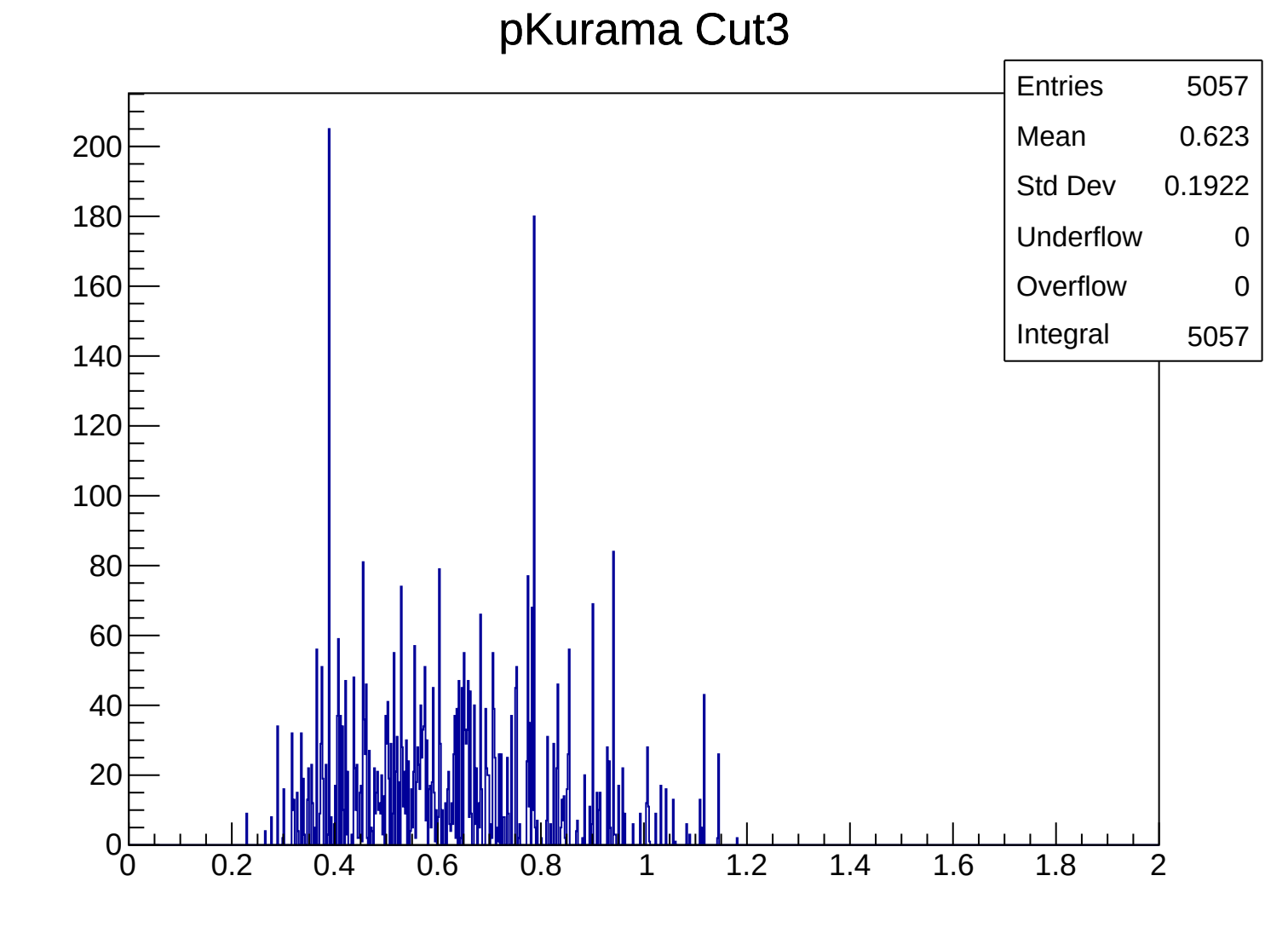

tSac Or Cut2
Entries 91644
Mean –488.9
Std Dev 9.455
Underflow 53
Overflow 0
Integral 7.257e+04
χ² / ndf 3462 / 2
Constant 2.759e+04 ± 1.708e+02
Mean –490.7 ± 0.0
Sigma 1.772 ± 0.009
30000
25000
20000
15000
10000
5000
0
–540
–520
–500
–480
–460
–440
–420

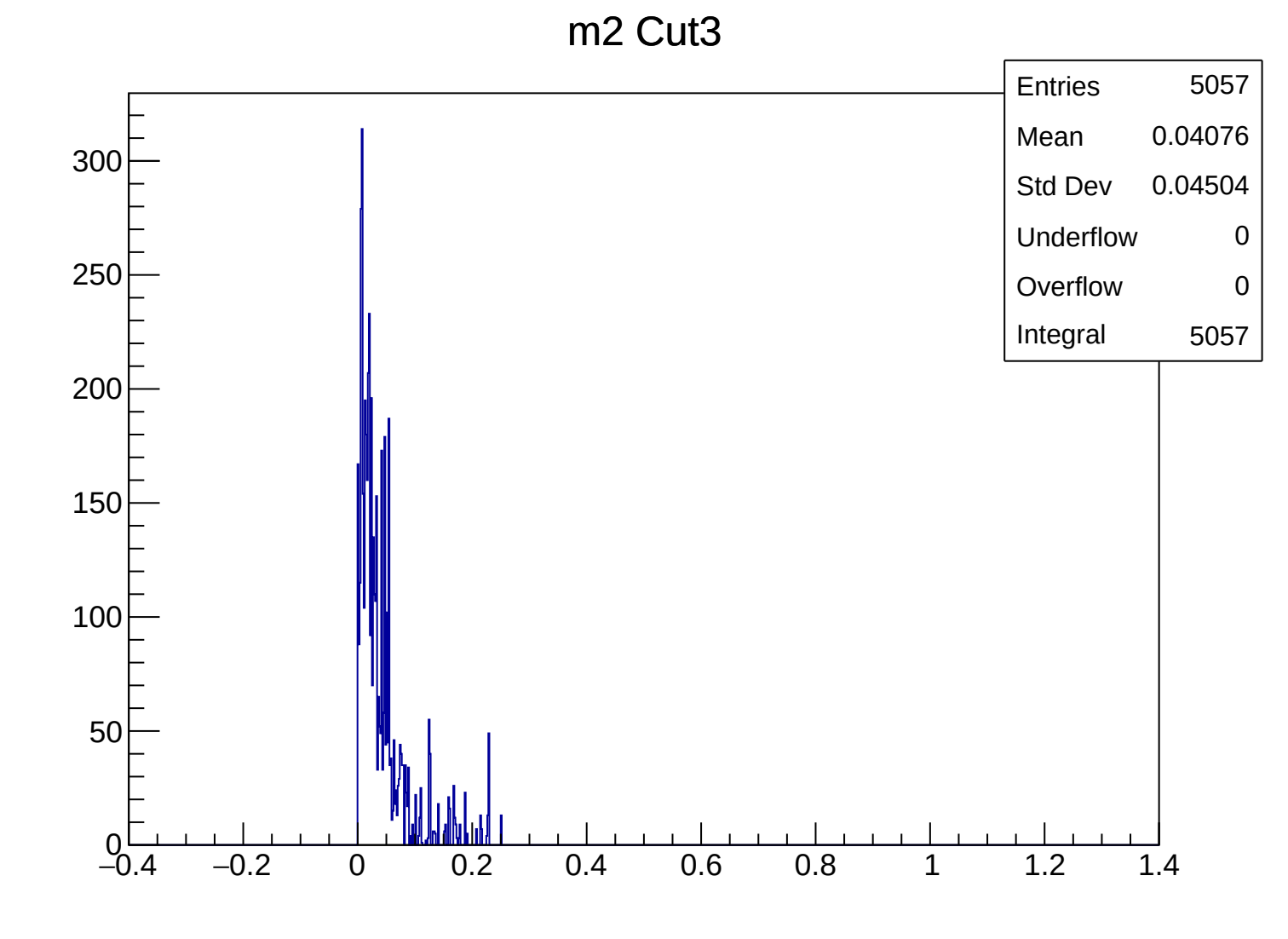

Trigger Flag BeamTofPs
Entries 723777
Mean −0.5
Std Dev 0
Underflow 7.238e+05
Overflow 0
Integral 7.238e+05
10^6
10^5
10^4
10^3
0
10
20
30
40
50
60
70
80

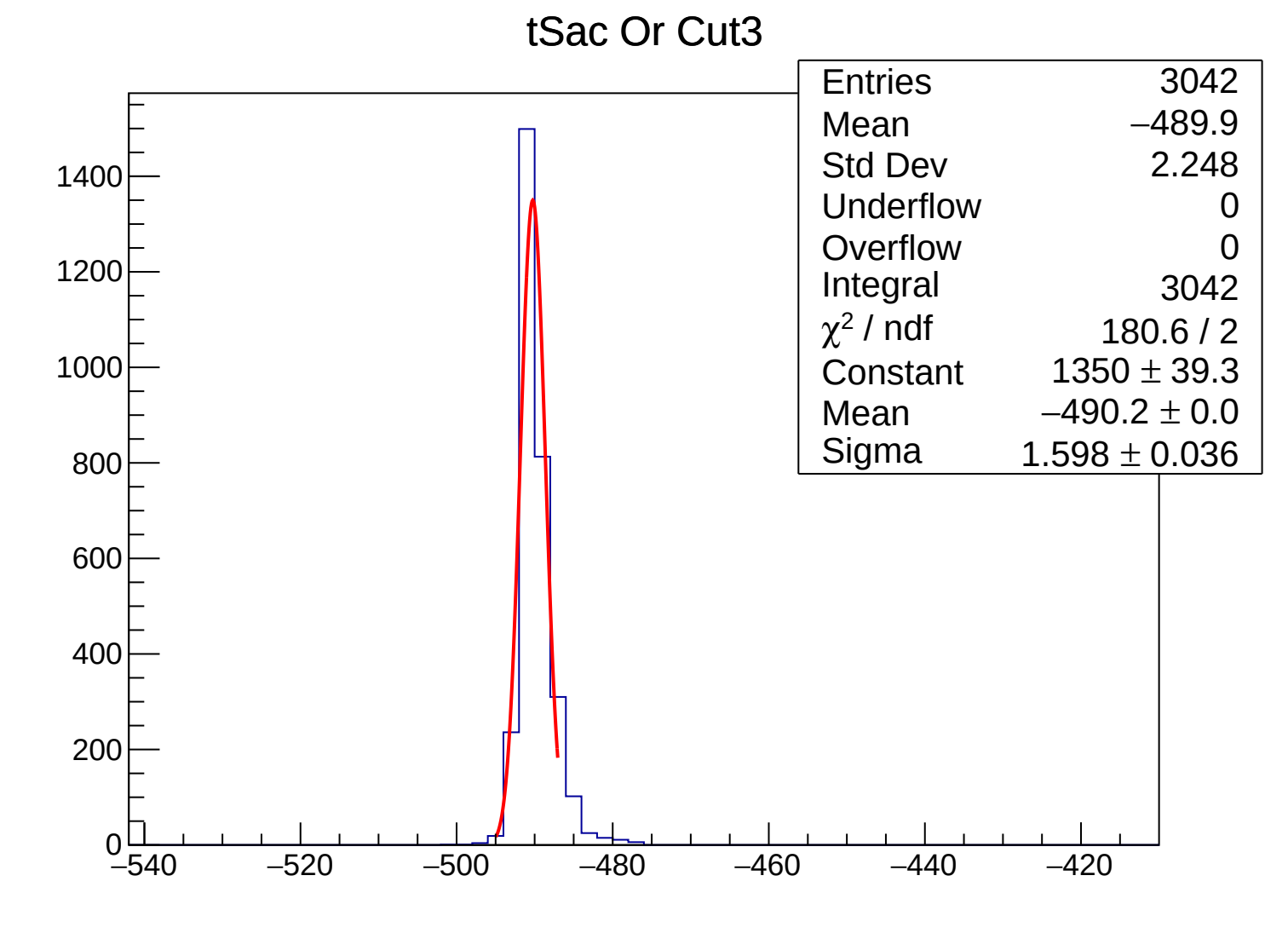

Trigger Flag BeamTofPs Cut2
Entries 135411
Mean −0.5
Std Dev 0
Underflow 1.354e+05
Overflow 0
Integral 1.354e+05
10^5
10^4
10^3
10^2
0
10
20
30
40
50
60
70
80

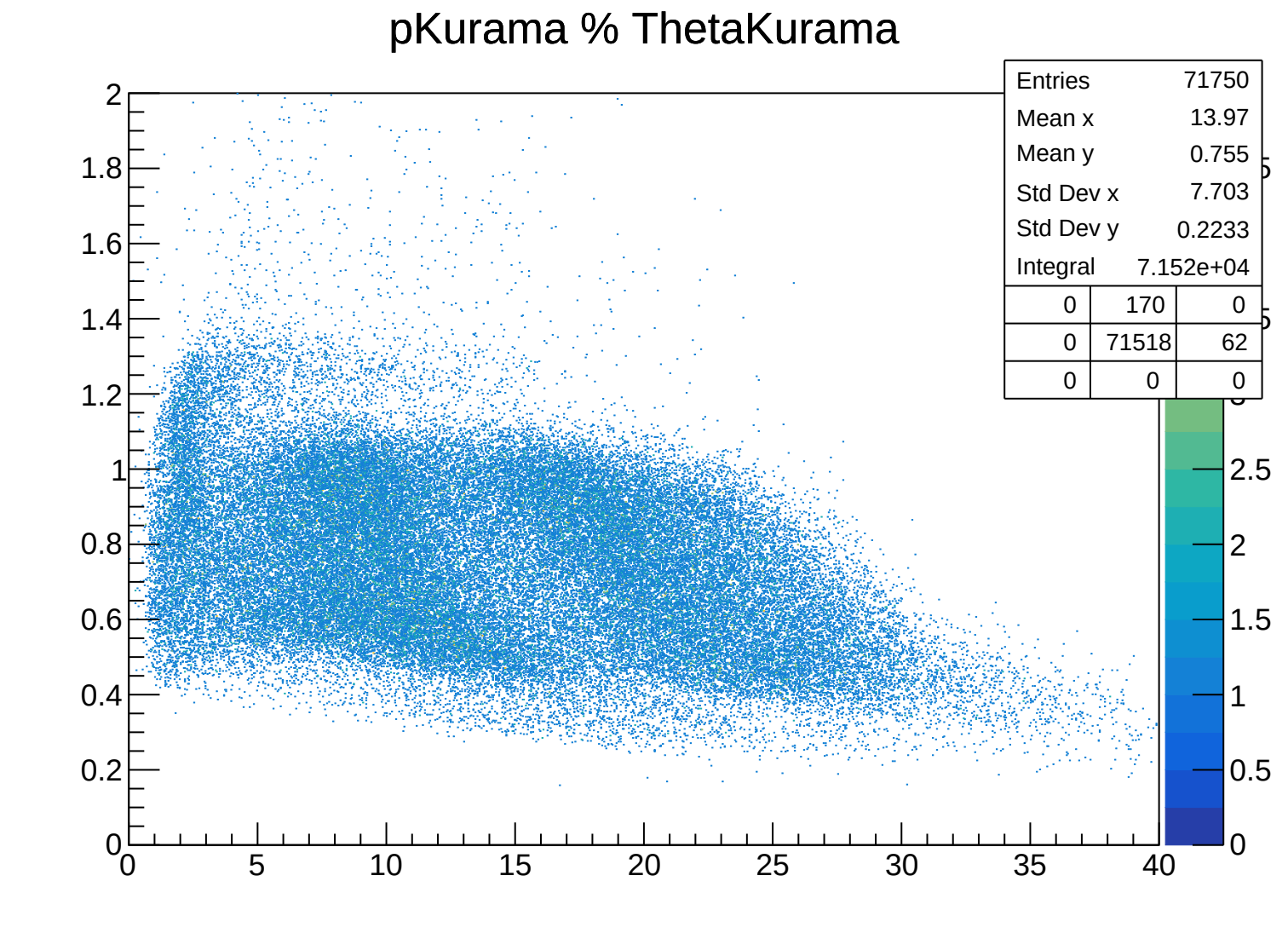

xsacKurama Cut3
Entries 5057
Mean –18.66
Std Dev 131.7
Underflow 0
Overflow 0
Integral 5057
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

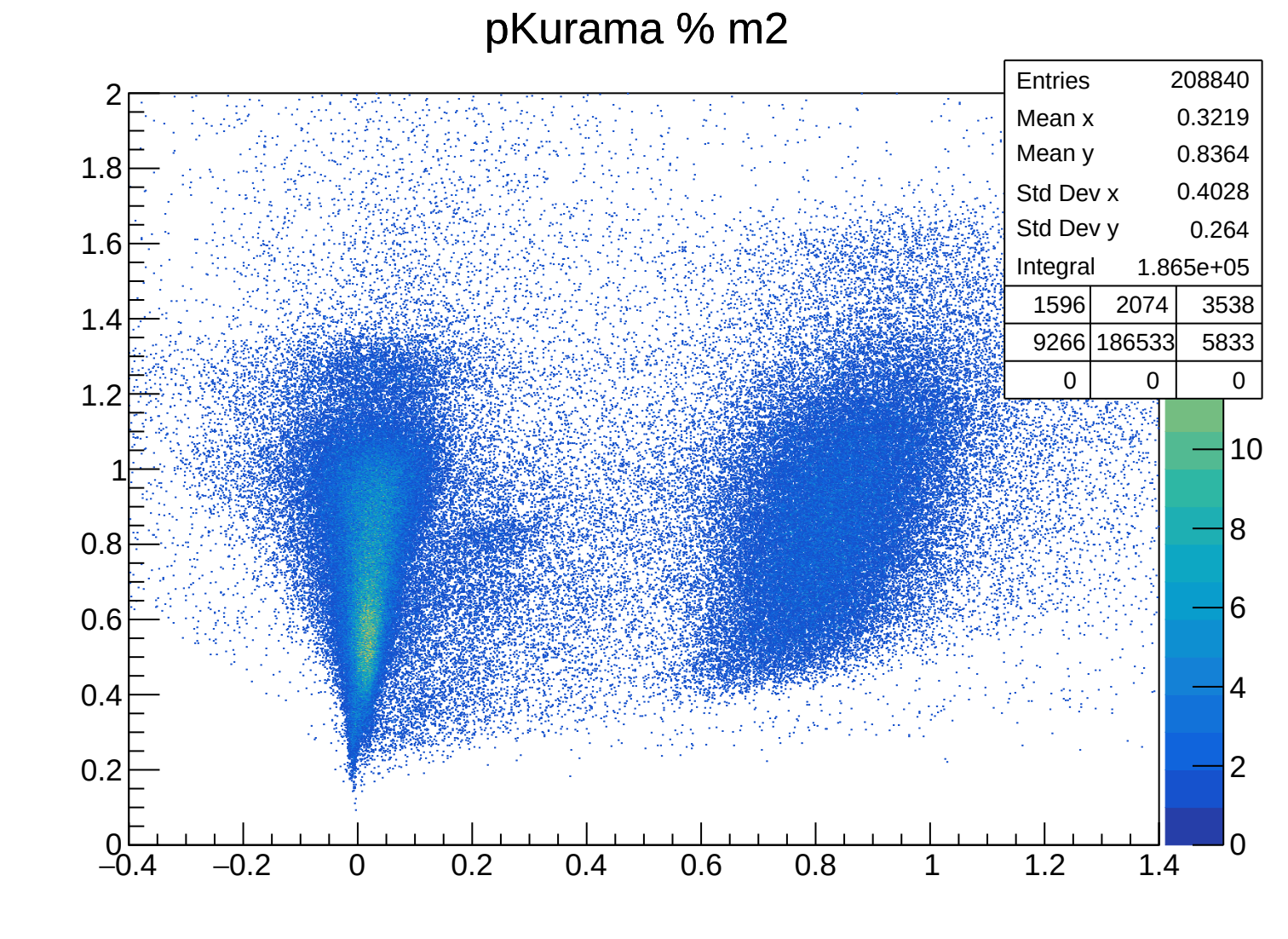

ysacKurama Cut3
Entries 5057
Mean 5.345
Std Dev 97.16
Underflow 0
Overflow 0
Integral 5057
200
180
160
140
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

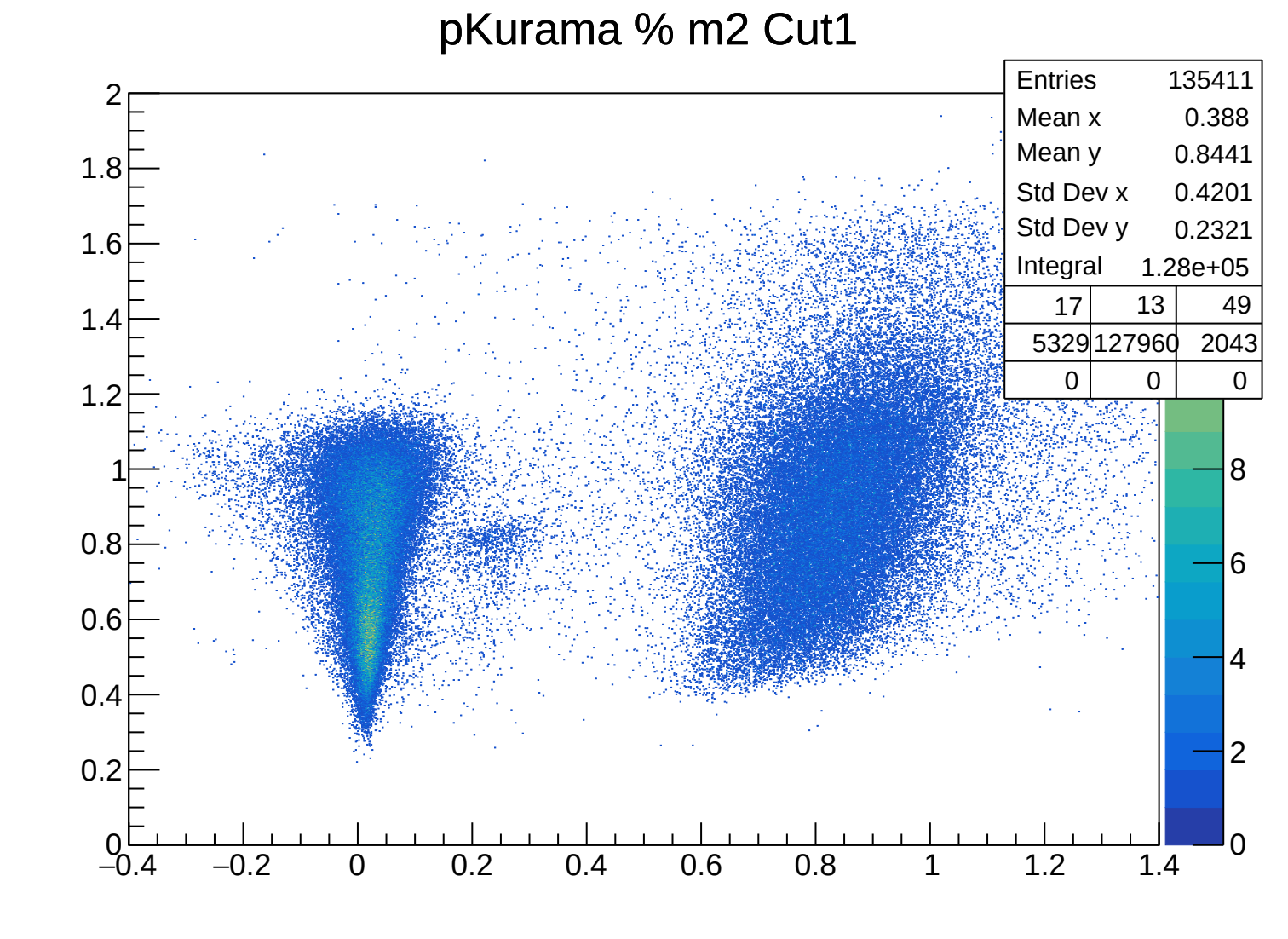

pKurama Cut3
Entries 5057
Mean 0.623
Std Dev 0.1922
Underflow 0
Overflow 0
Integral 5057
200
180
160
140
120
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

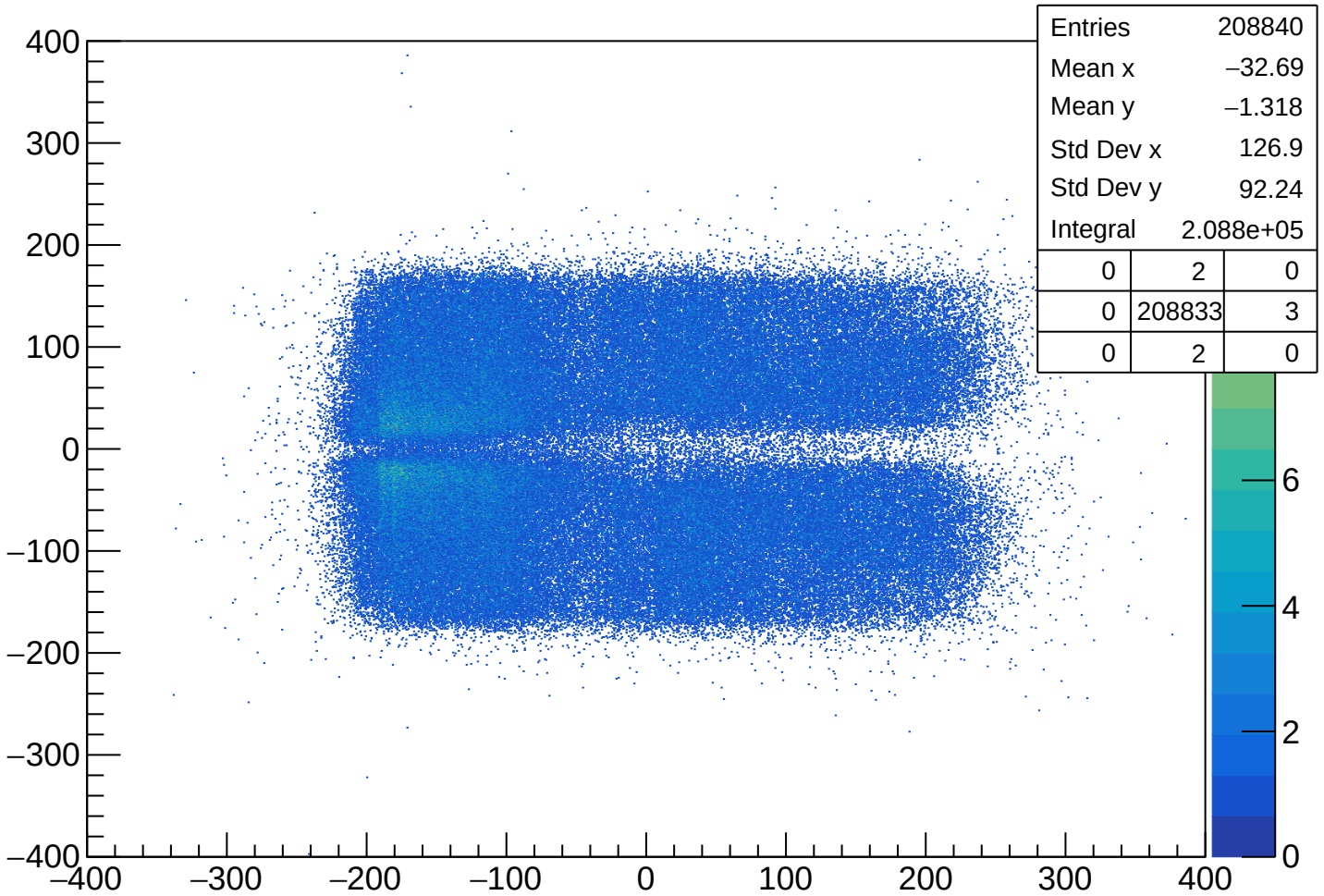

m2 Cut3
Entries 5057
Mean 0.04076
Std Dev 0.04504
Underflow 0
Overflow 0
Integral 5057
300
250
200
150
100
50
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

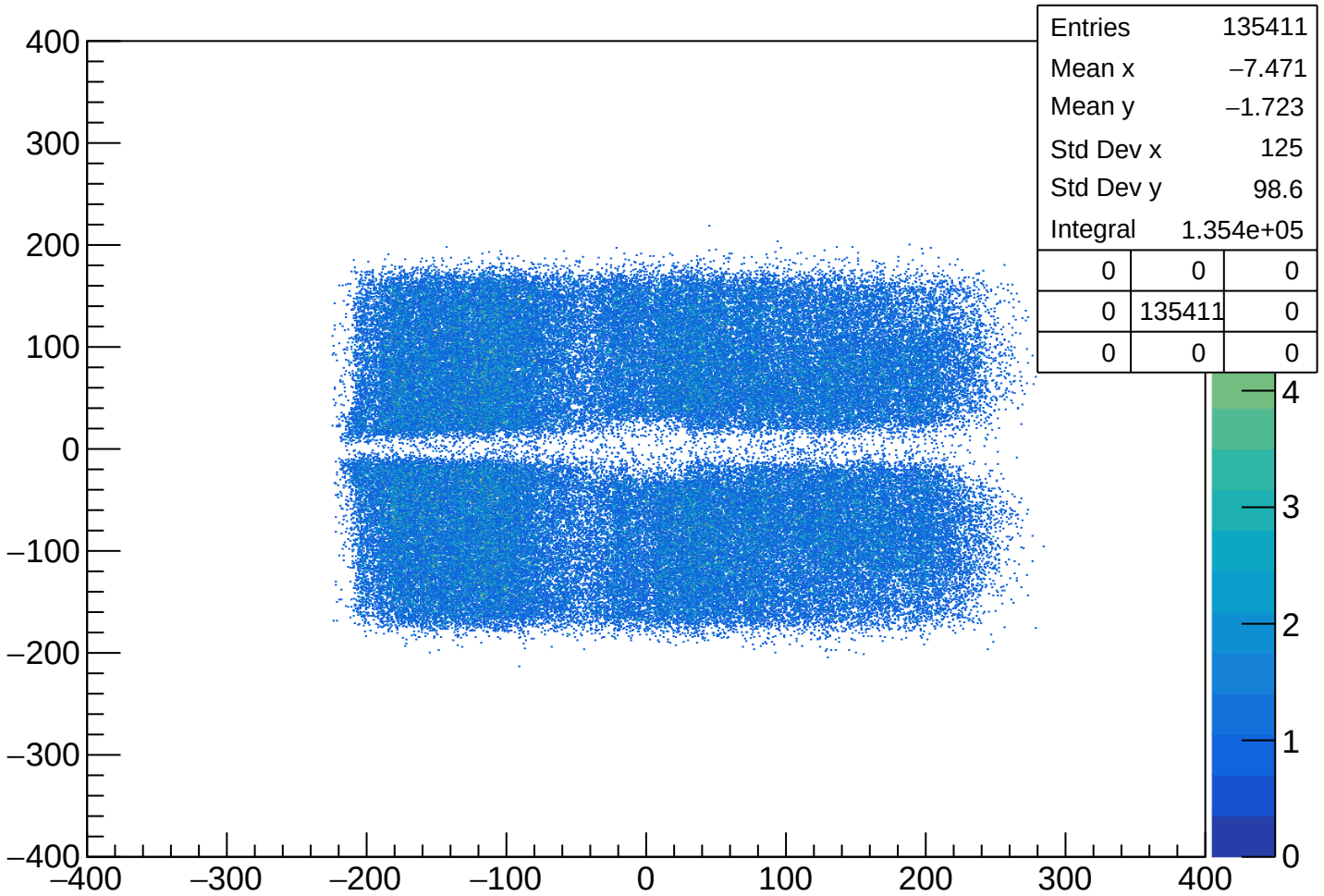

tSac Or Cut3
Entries 3042
Mean –489.9
Std Dev 2.248
Underflow 0
Overflow 0
Integral 3042
χ² / ndf 180.6 / 2
Constant 1350 ± 39.3
Mean –490.2 ± 0.0
Sigma 1.598 ± 0.036
1400
1200
1000
800
600
400
200
0
–540
–520
–500
–480
–460
–440
–420

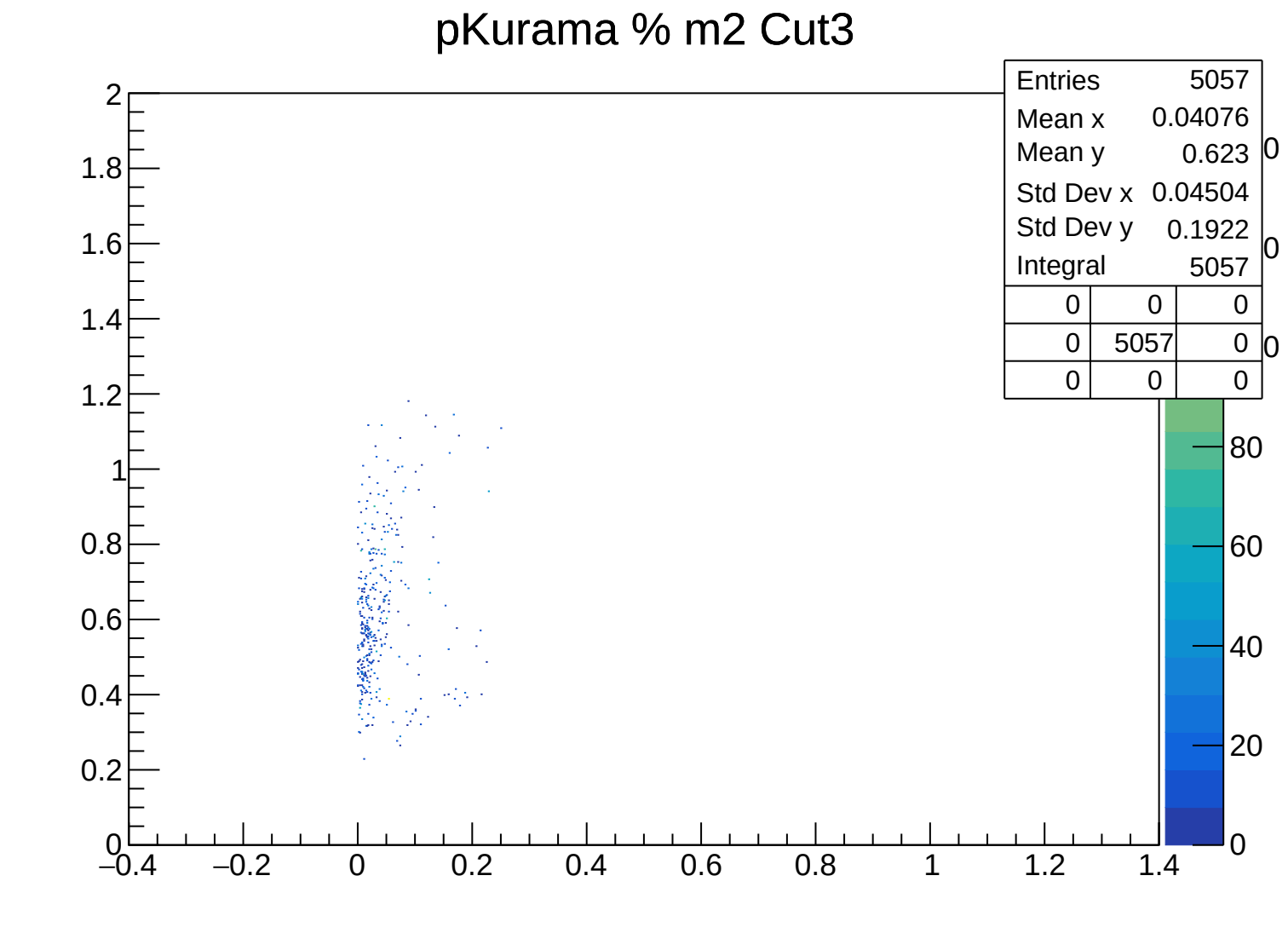

pKurama % ThetaKurama
Entries 71750
Mean x 13.97
Mean y 0.755
Std Dev x 7.703
Std Dev y 0.2233
Integral 7.152e+04
0 170 0
0 71518 62
0 0 0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5 10 15 20 25 30 35 40
0 0.5 1 1.5 2 2.5

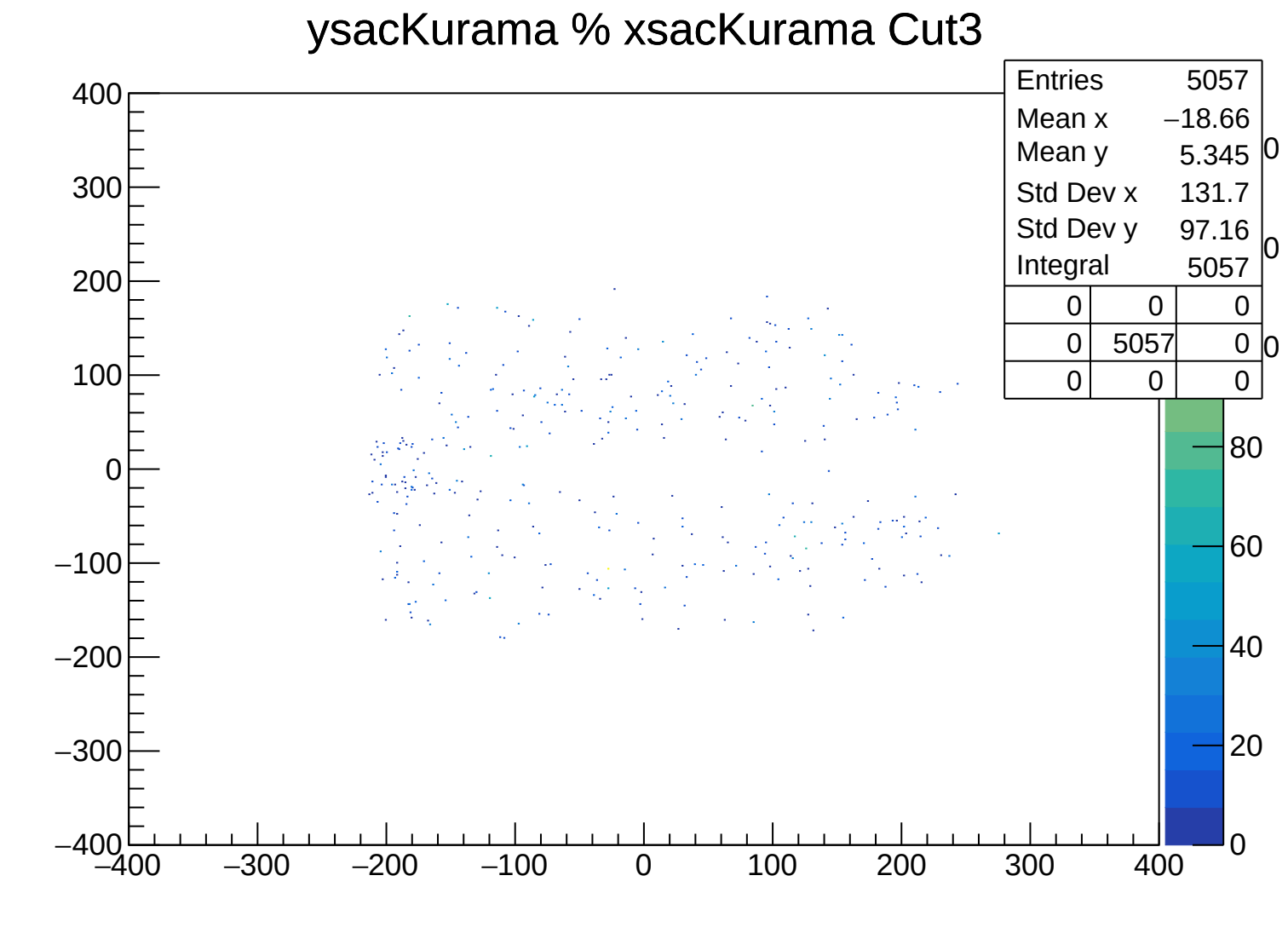

pKurama % m2
Entries 208840
Mean x 0.3219
Mean y 0.8364
Std Dev x 0.4028
Std Dev y 0.264
Integral 1.865e+05
1596 2074 3538
9266 186533 5833
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
10
8
6
4
2
0


pKurama % m2 Cut1
Entries 135411
Mean x 0.388
Mean y 0.8441
Std Dev x 0.4201
Std Dev y 0.2321
Integral 1.28e+05
17 13 49
5329 127960 2043
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
8
6
4
2
0


ysacKurama % xsacKurama
Entries 208840
Mean x –32.69
Mean y –1.318
Std Dev x 126.9
Std Dev y 92.24
Integral 2.088e+05
0 2 0
0 208833 3
0 2 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
6
4
2
0


ysacKurama % xsacKurama Cut1
Entries 135411
Mean x −7.471
Mean y −1.723
Std Dev x 125
Std Dev y 98.6
Integral 1.354e+05
0 0 0
0 135411 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
4
3
2
1
0


pKurama % m2 Cut3
Entries 5057
Mean x 0.04076
Mean y 0.623
Std Dev x 0.04504
Std Dev y 0.1922
Integral 5057
0 0 0
0 5057 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
80
60
40
20
0


ysacKurama % xsacKurama Cut3
Entries 5057
Mean x −18.66
Mean y 5.345
Std Dev x 131.7
Std Dev y 97.16
Integral 5057
0 0 0
0 5057 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
80
60
40
20
0