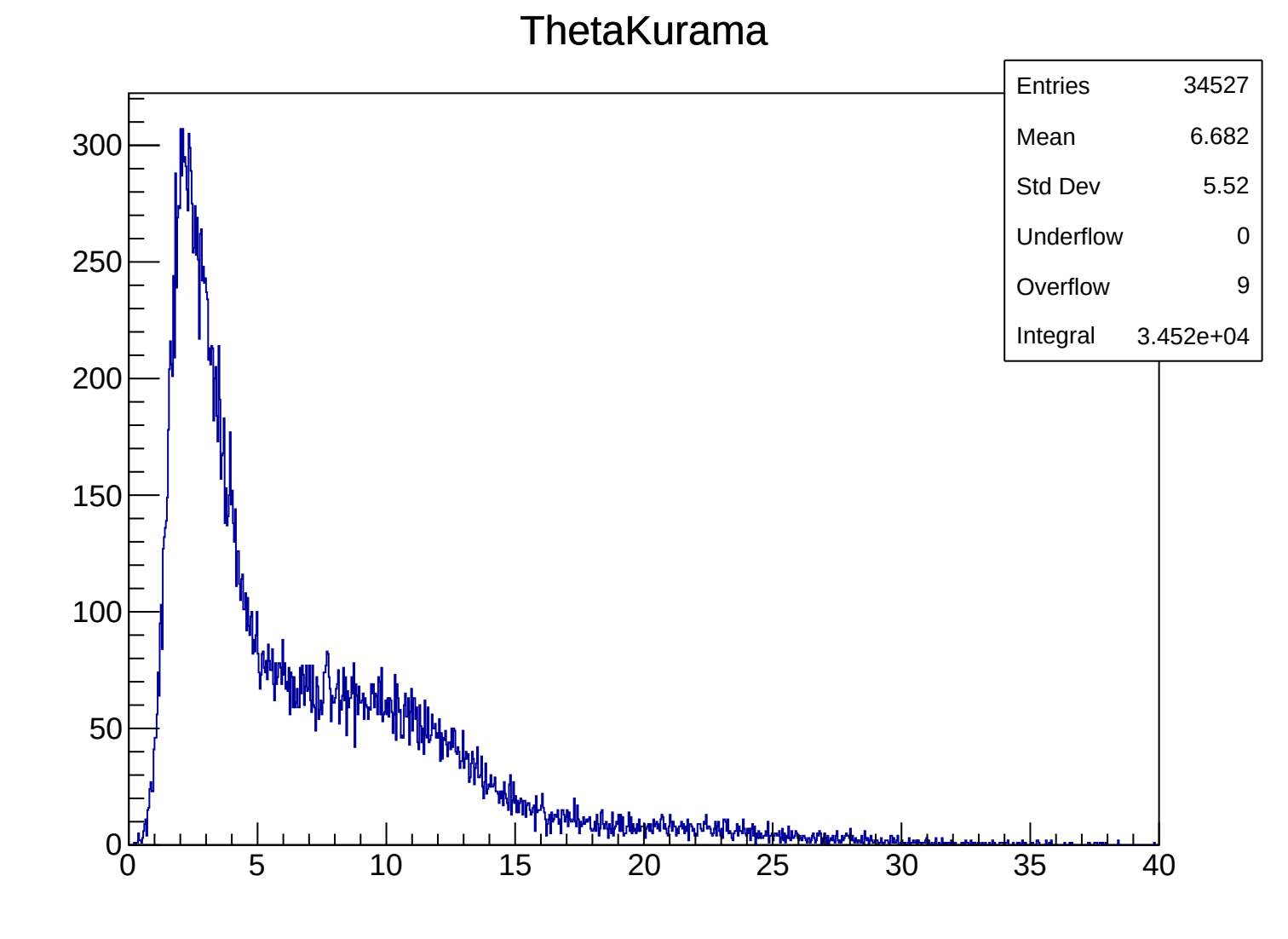
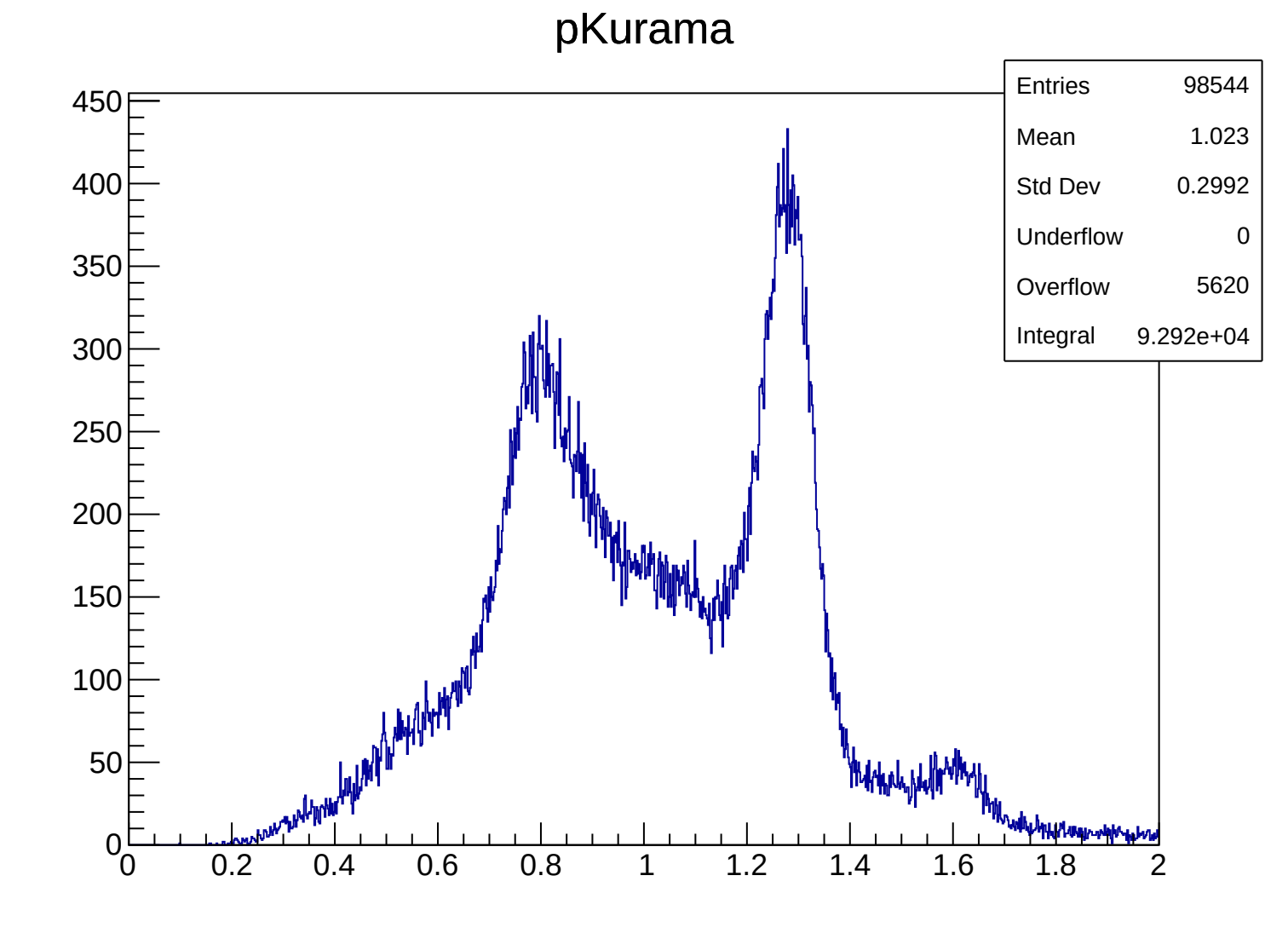
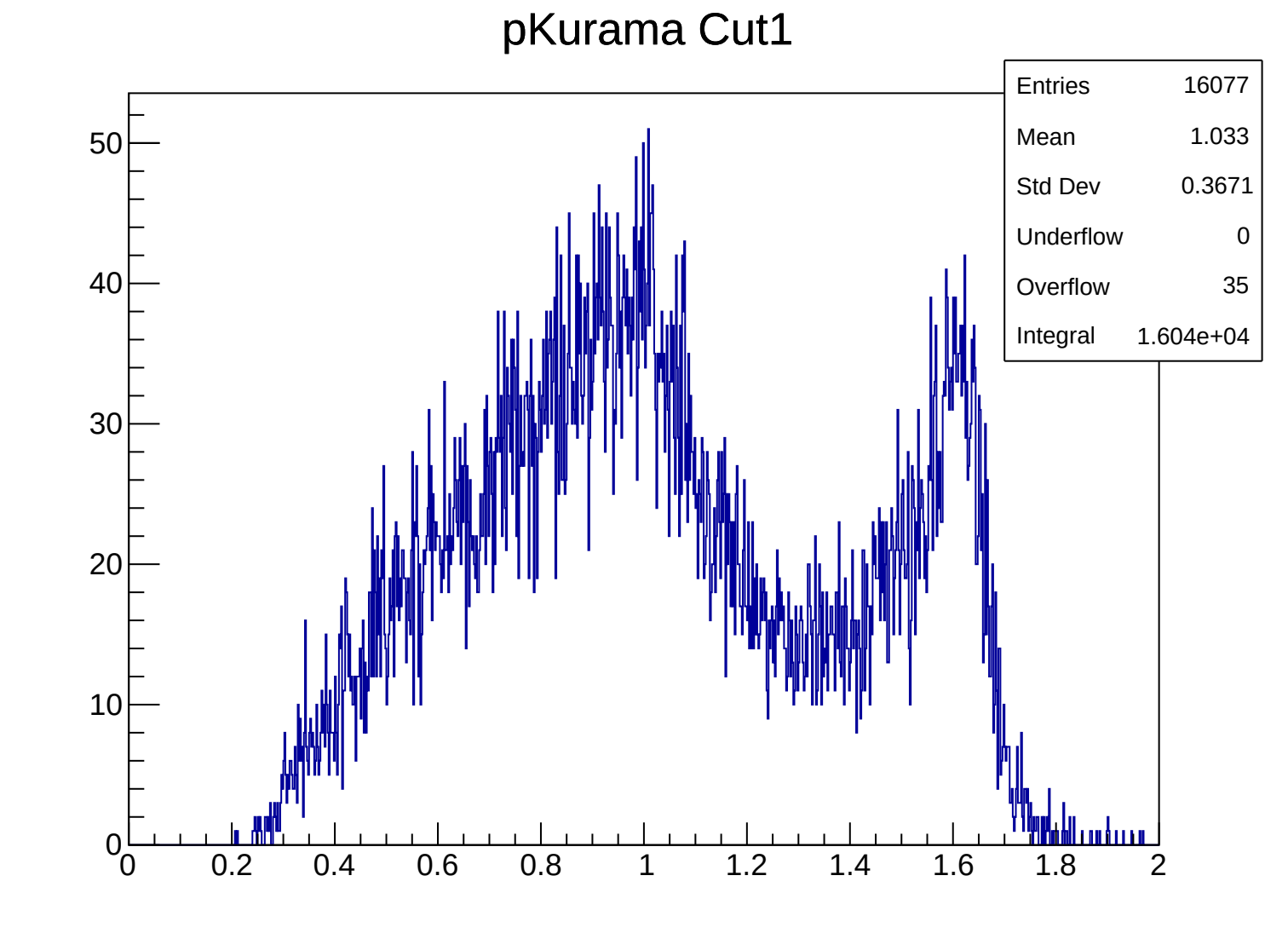
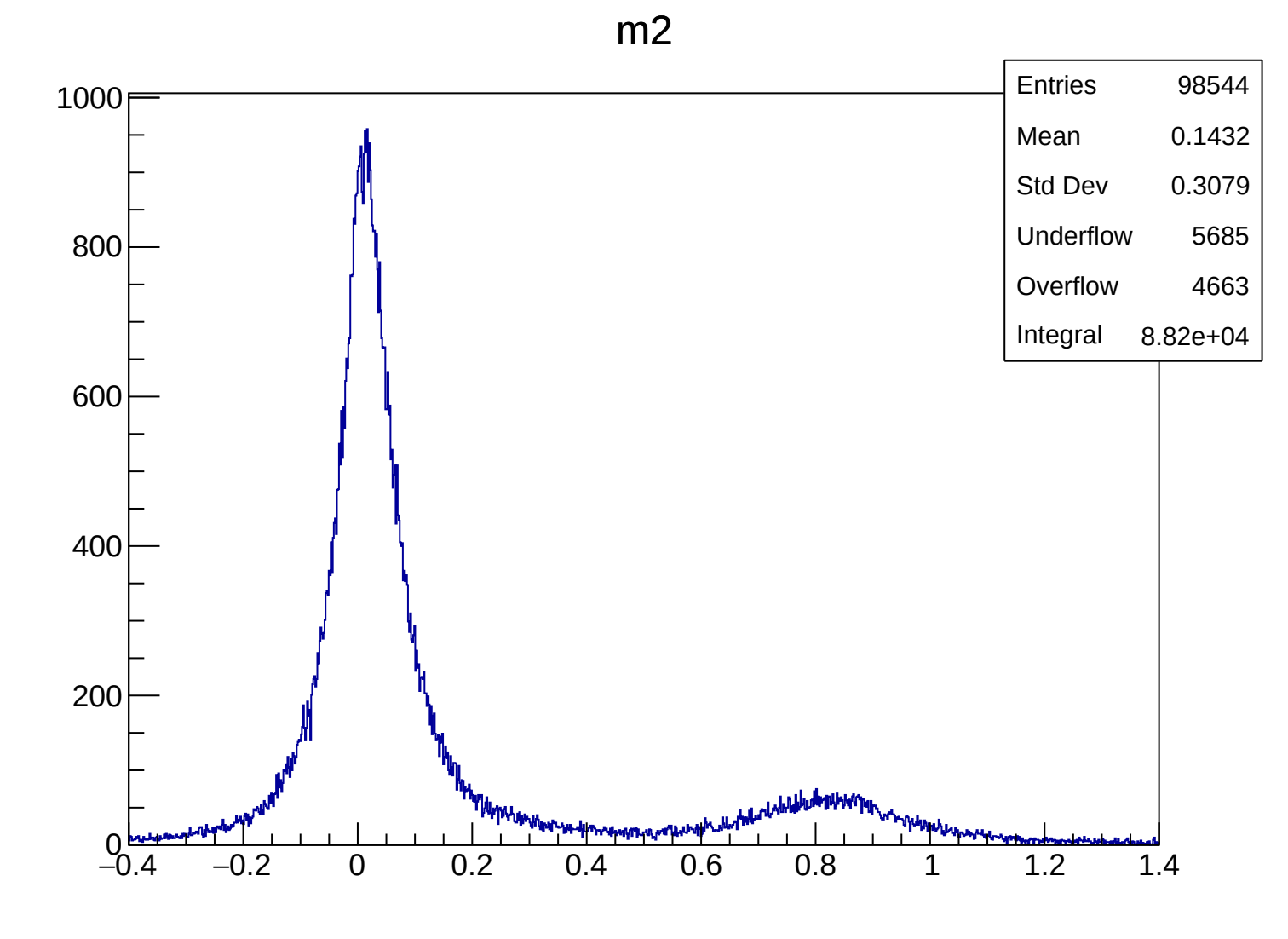
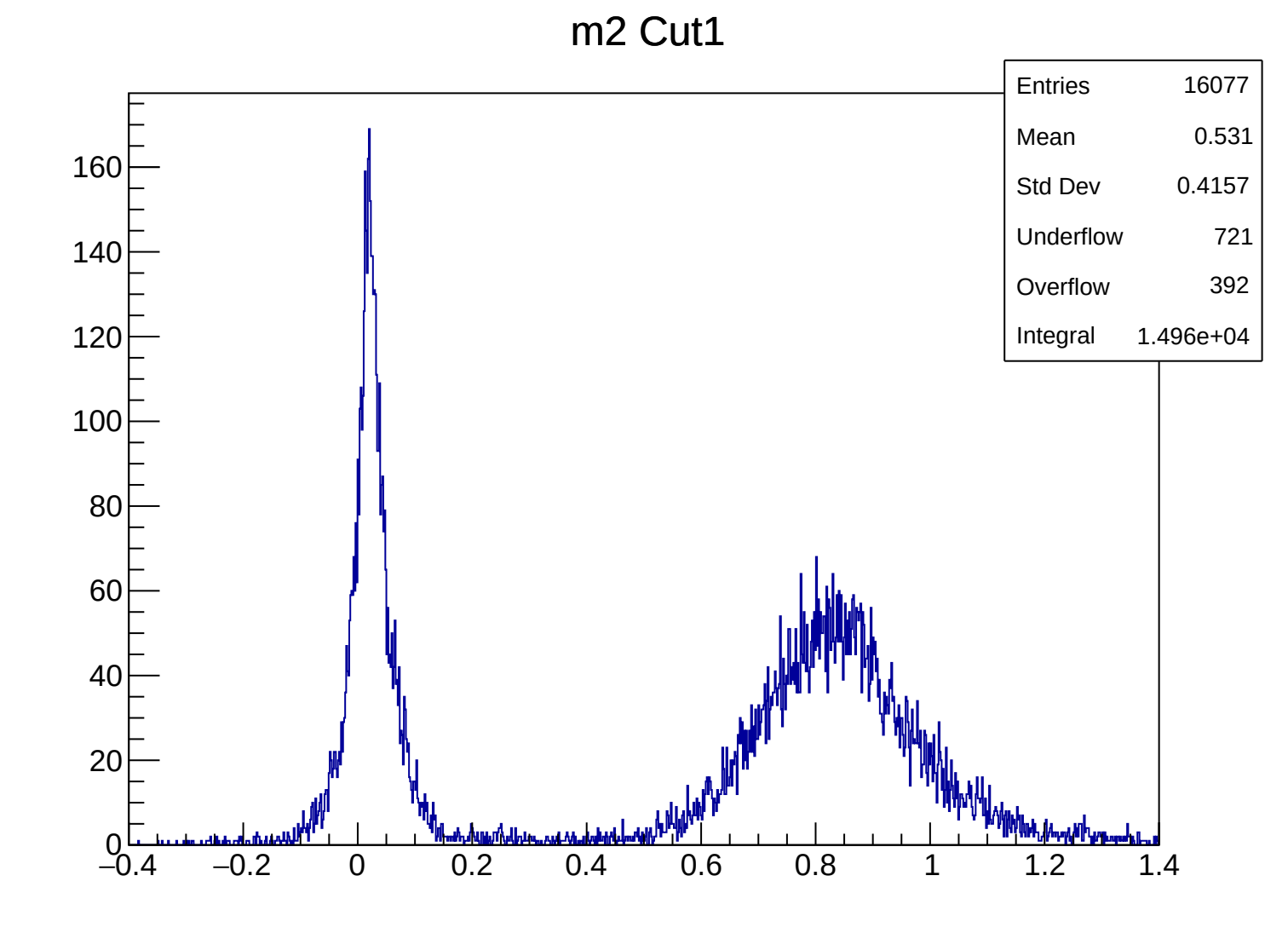
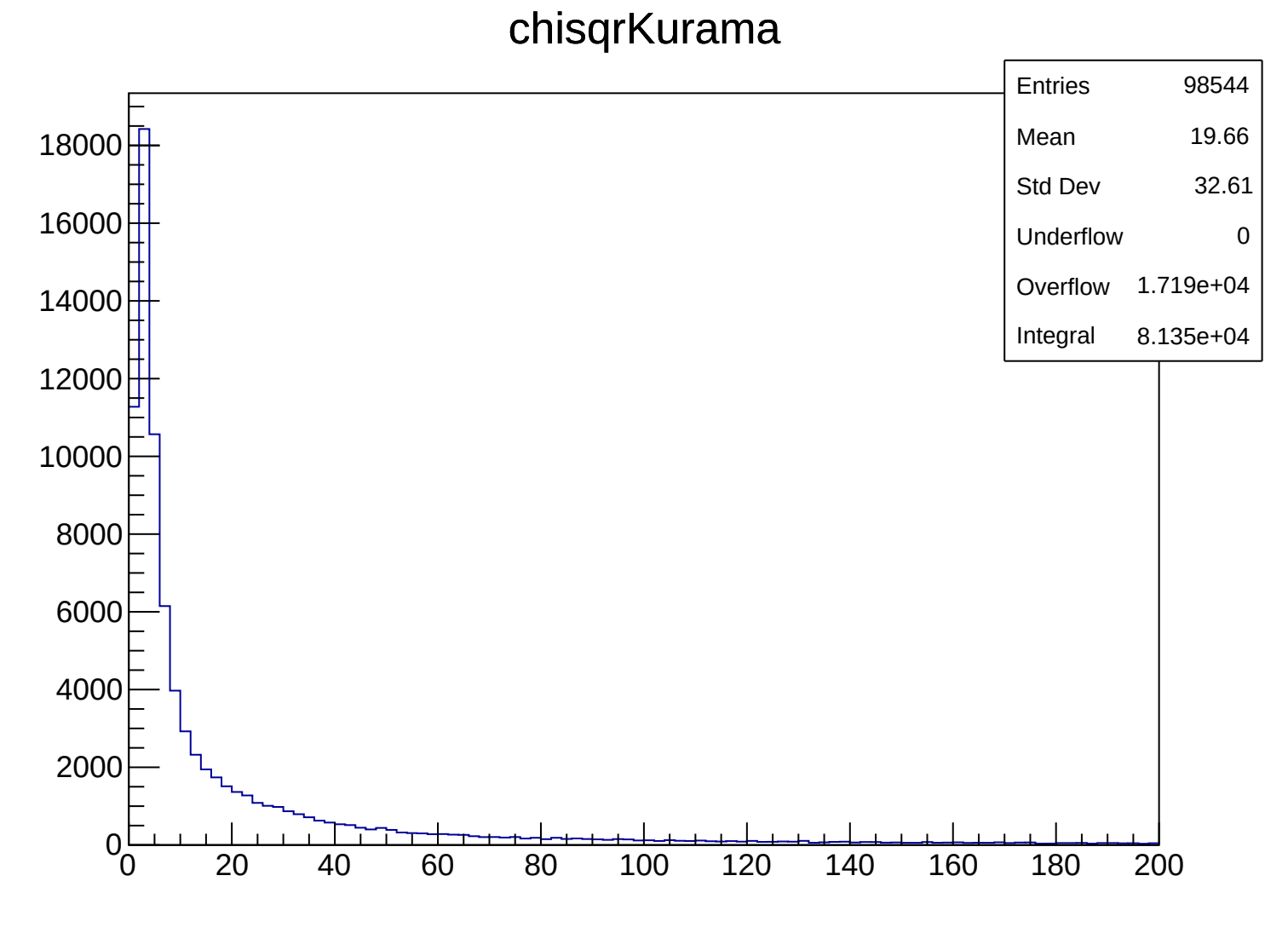

ThetaKurama
Entries 34527
Mean 6.682
Std Dev 5.52
Underflow 0
Overflow 9
Integral 3.452e+04
300
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40

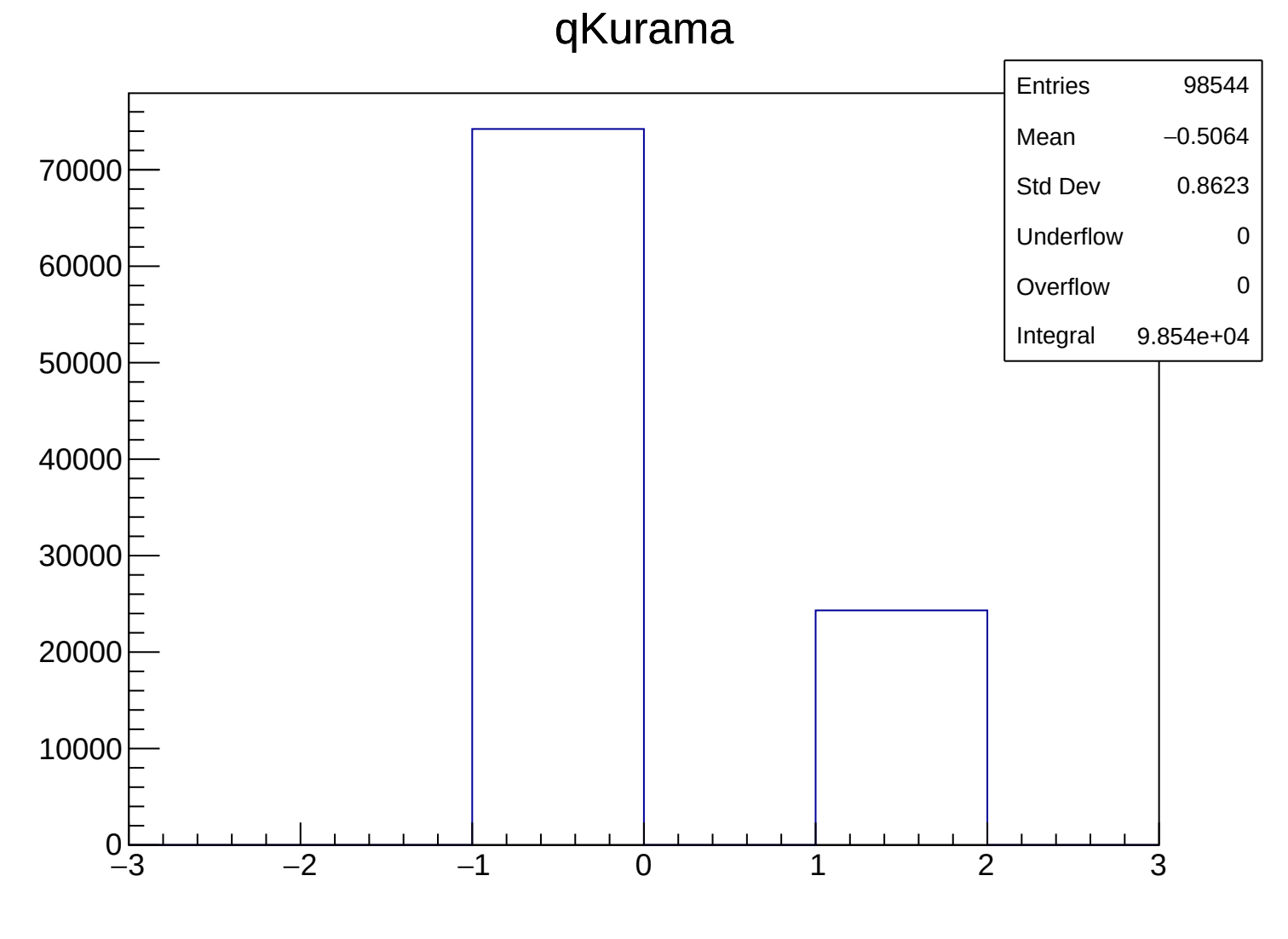

pKurama
Entries 98544
Mean 1.023
Std Dev 0.2992
Underflow 0
Overflow 5620
Integral 9.292e+04
450
400
350
300
250
200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

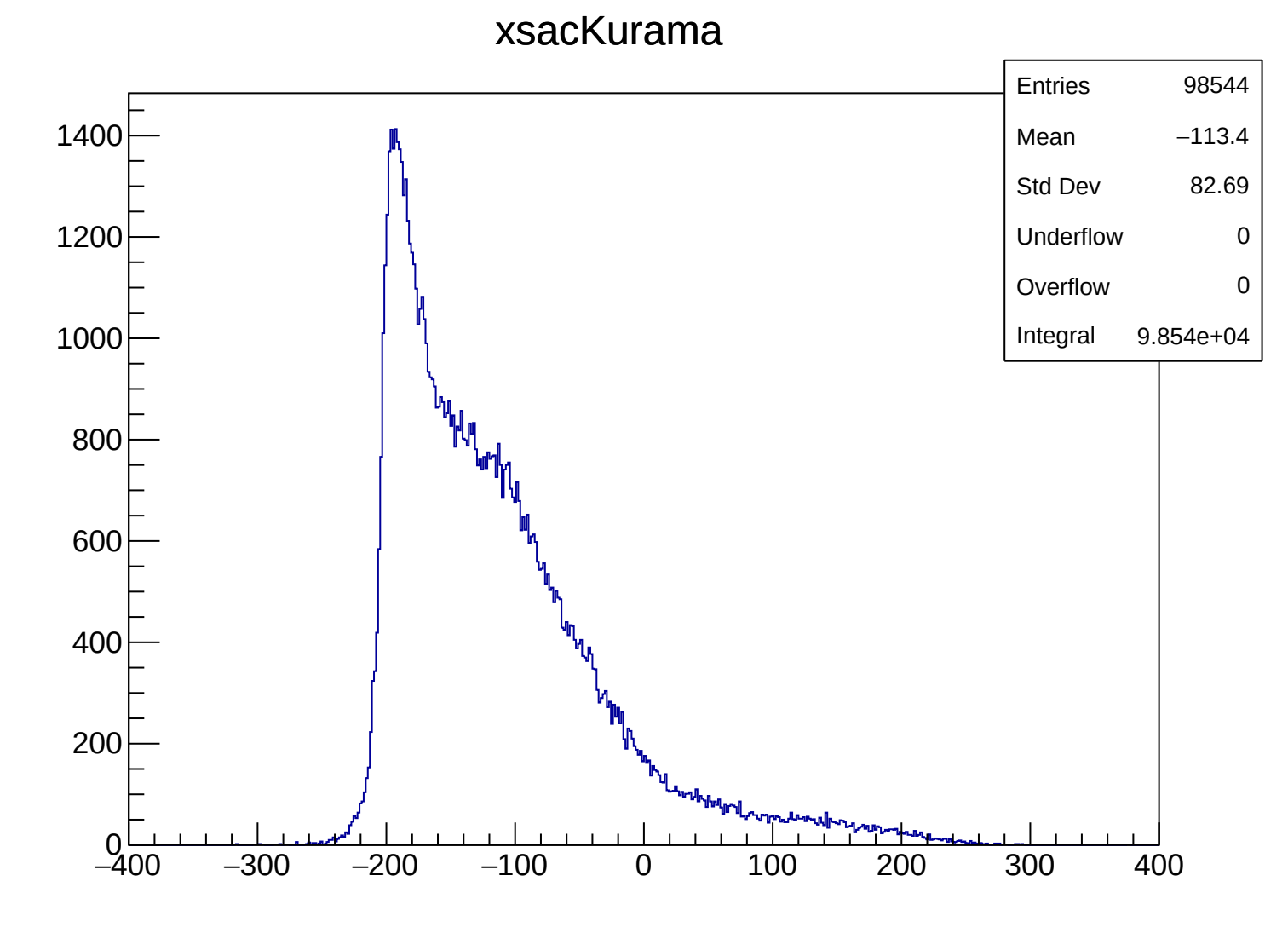

pKurama Cut1
Entries 16077
Mean 1.033
Std Dev 0.3671
Underflow 0
Overflow 35
Integral 1.604e+04
0
10
20
30
40
50
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

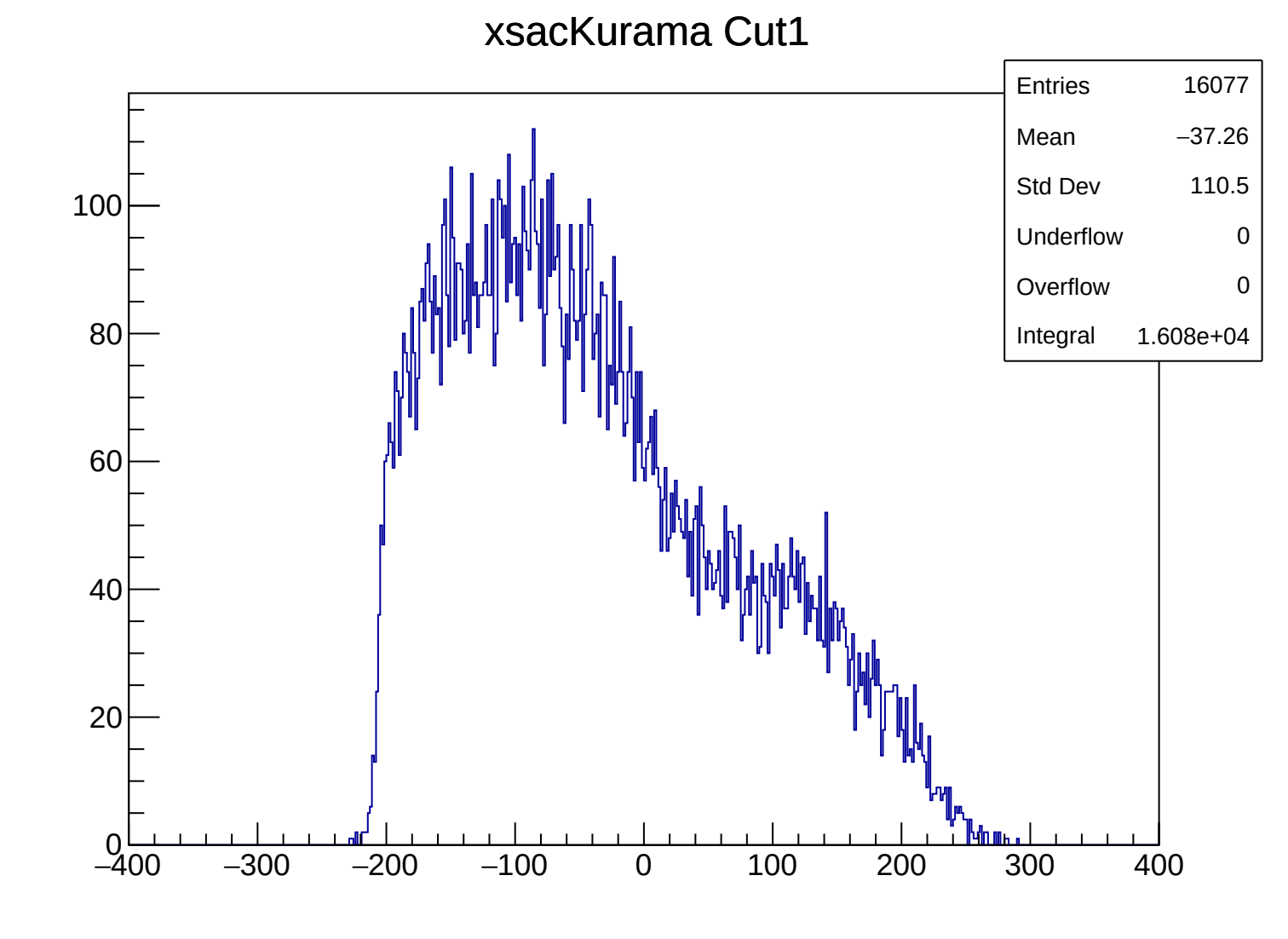

m2
Entries 98544
Mean 0.1432
Std Dev 0.3079
Underflow 5685
Overflow 4663
Integral 8.82e+04
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

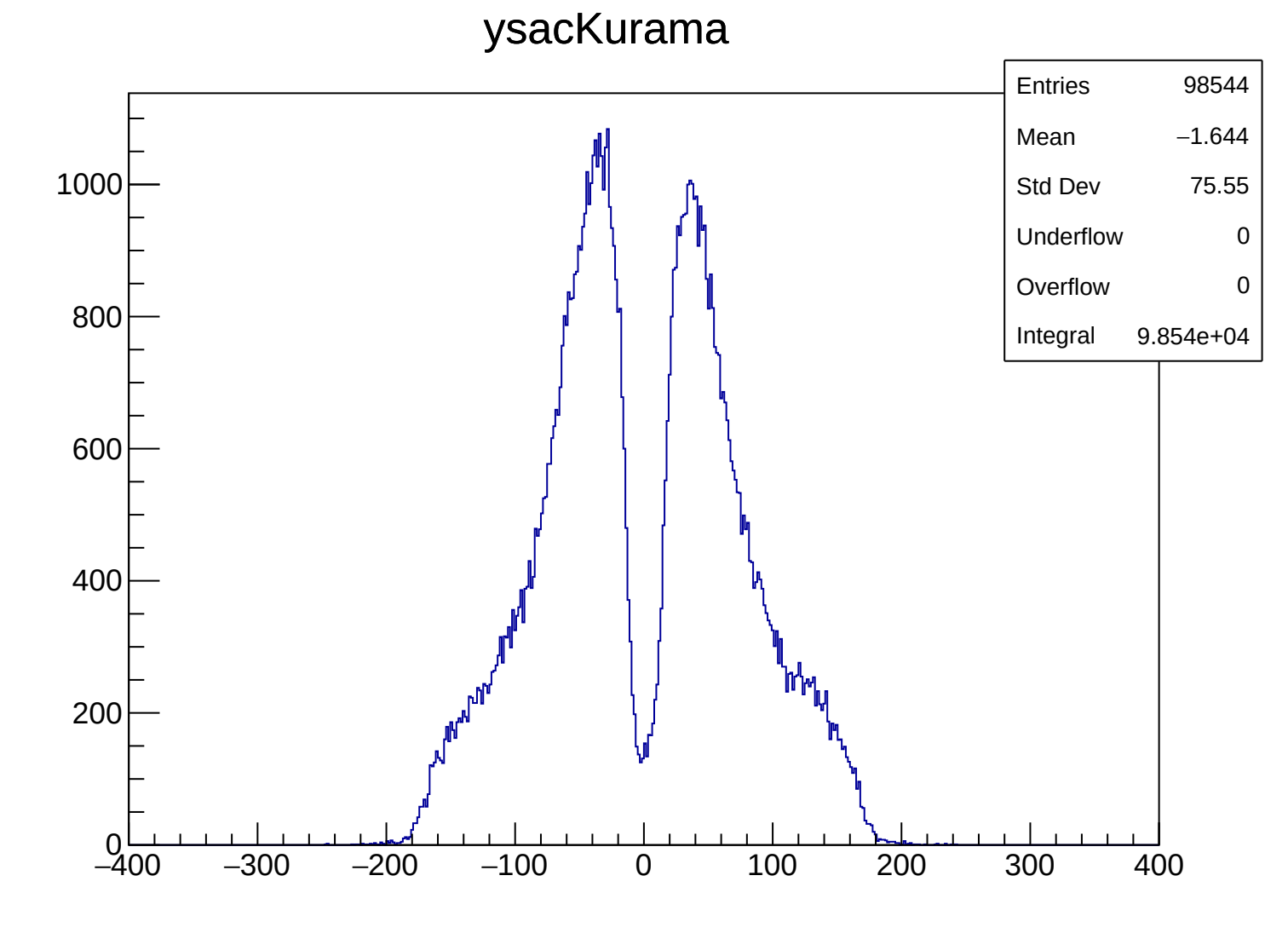

m2 Cut1
Entries 16077
Mean 0.531
Std Dev 0.4157
Underflow 721
Overflow 392
Integral 1.496e+04
160
140
120
100
80
60
40
20
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

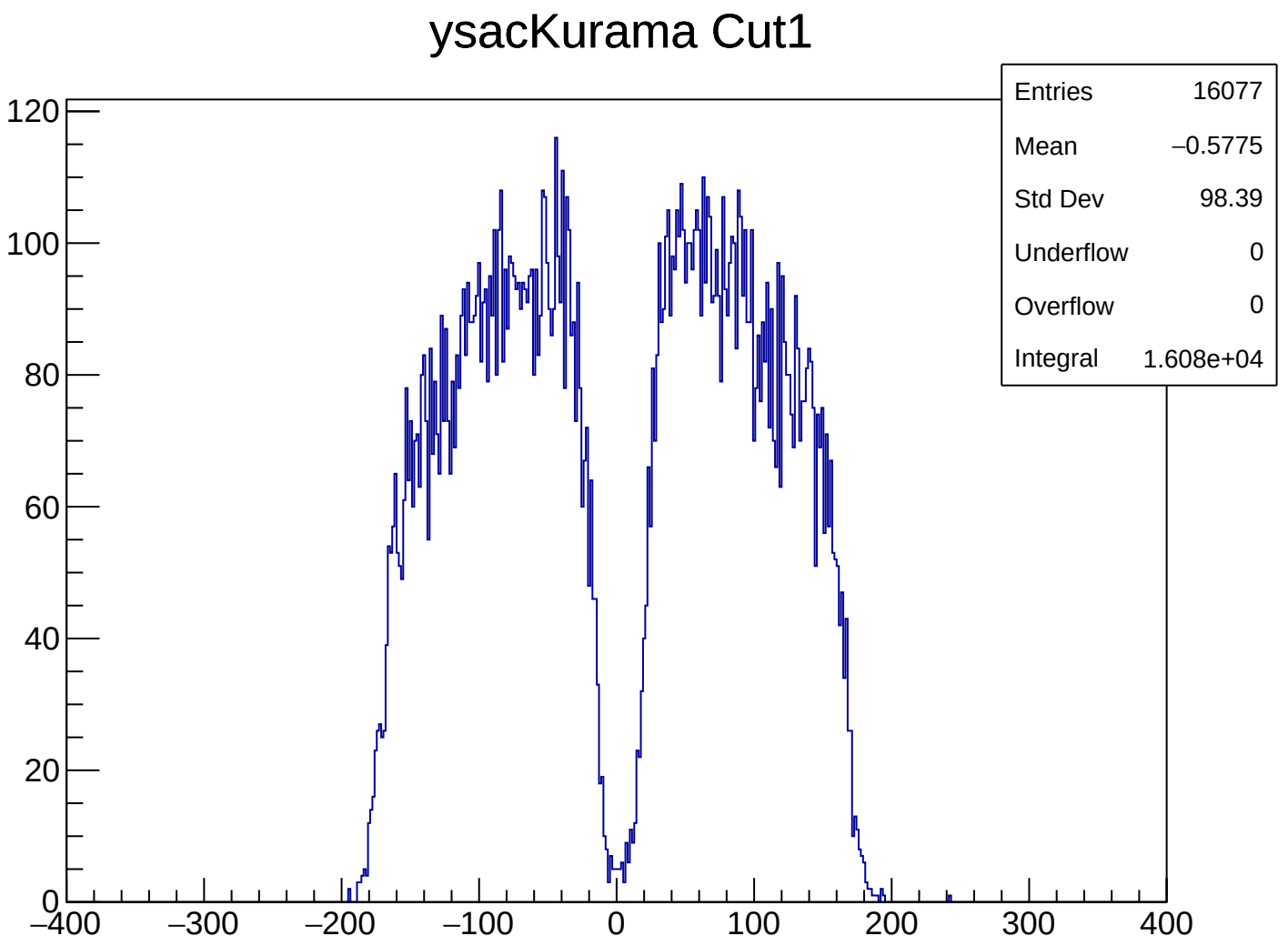

chisqrKurama
Entries 98544
Mean 19.66
Std Dev 32.61
Underflow 0
Overflow 1.719e+04
Integral 8.135e+04
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200

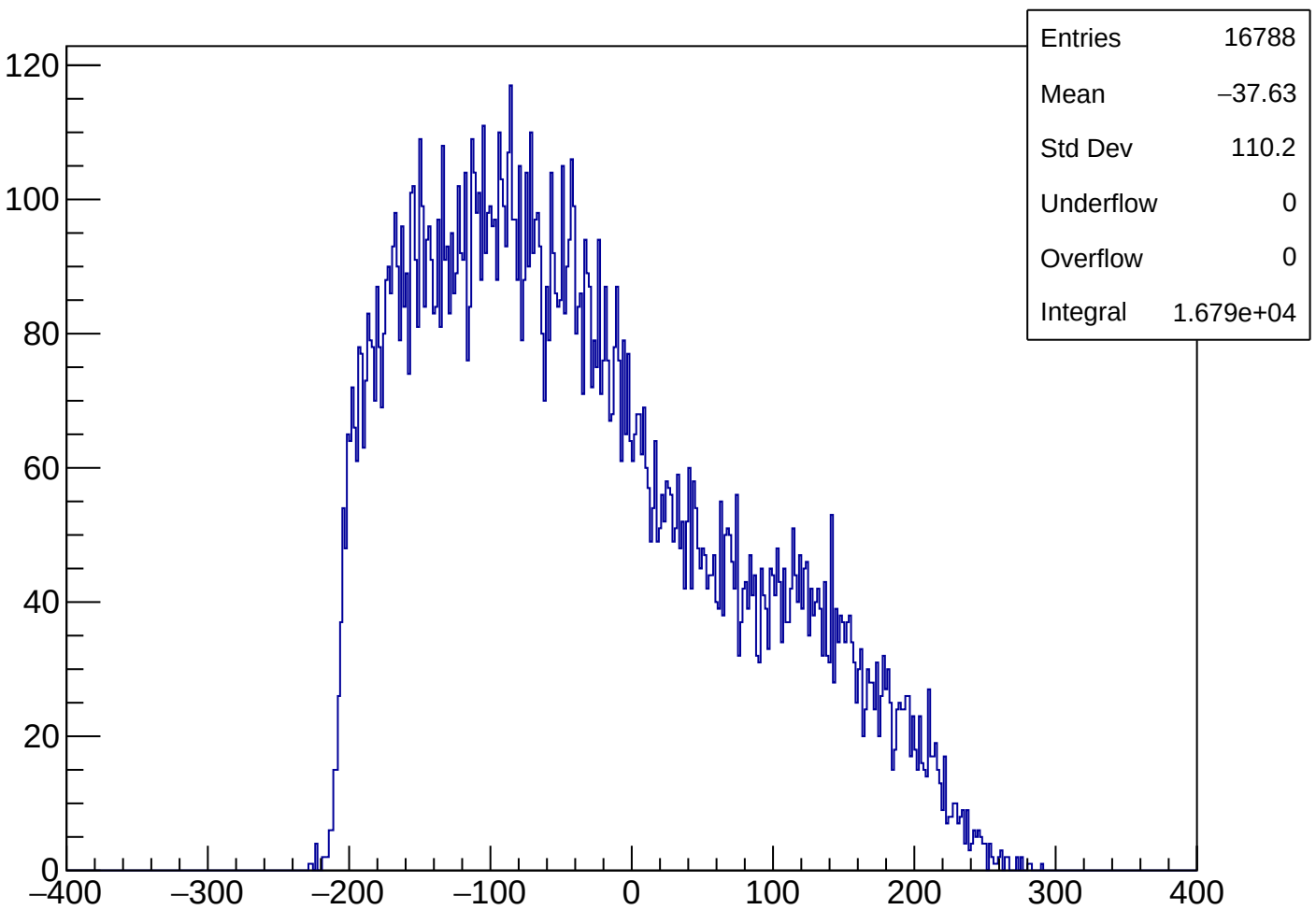

qKurama
Entries 98544
Mean −0.5064
Std Dev 0.8623
Underflow 0
Overflow 0
Integral 9.854e+04
70000
60000
50000
40000
30000
20000
10000
0
−3
−2
−1
0
1
2
3

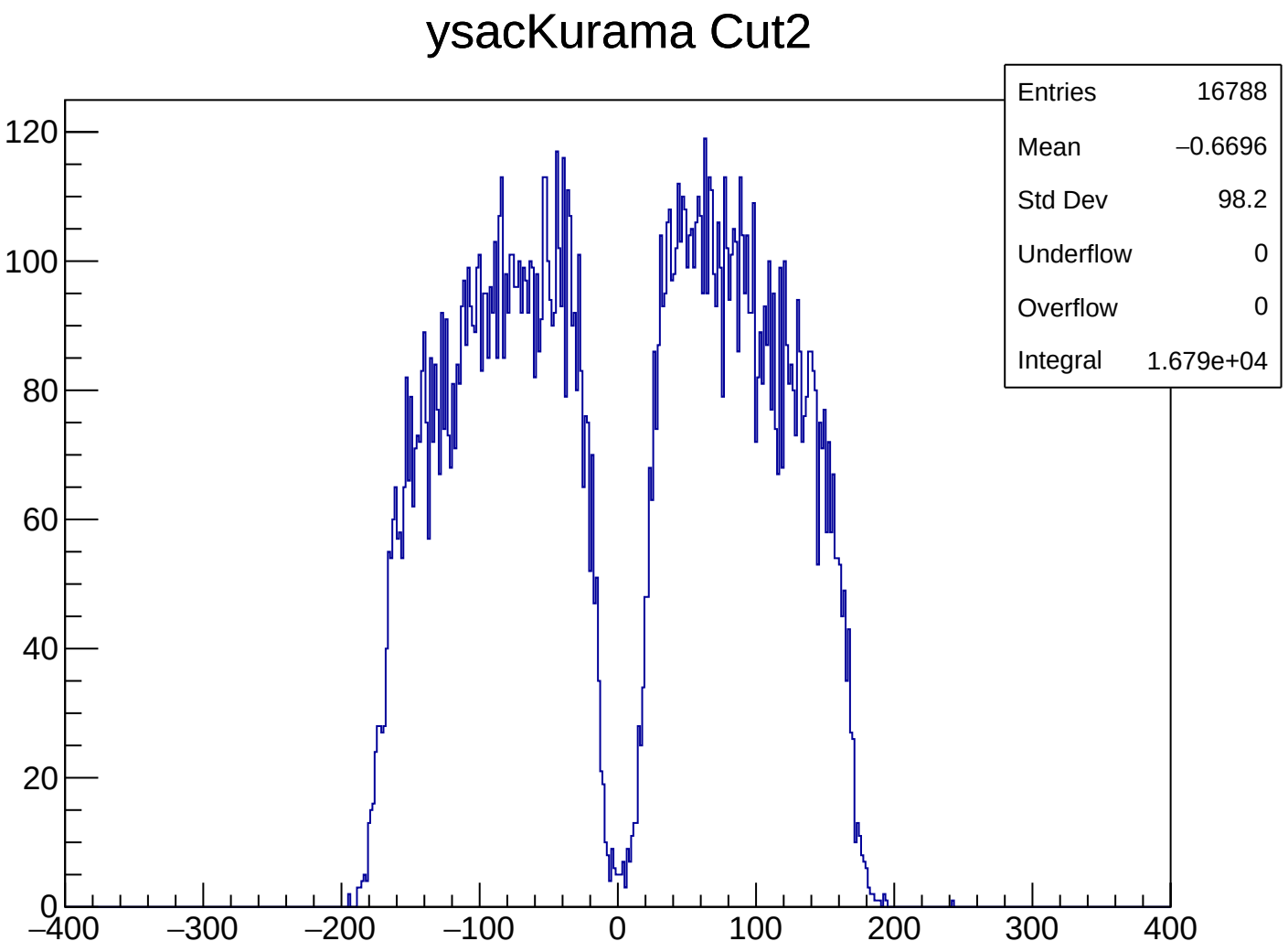

xsacKurama
Entries 98544
Mean −113.4
Std Dev 82.69
Underflow 0
Overflow 0
Integral 9.854e+04
1400
1200
1000
800
600
400
200
0
−400
−300
−200
−100
0
100
200
300
400

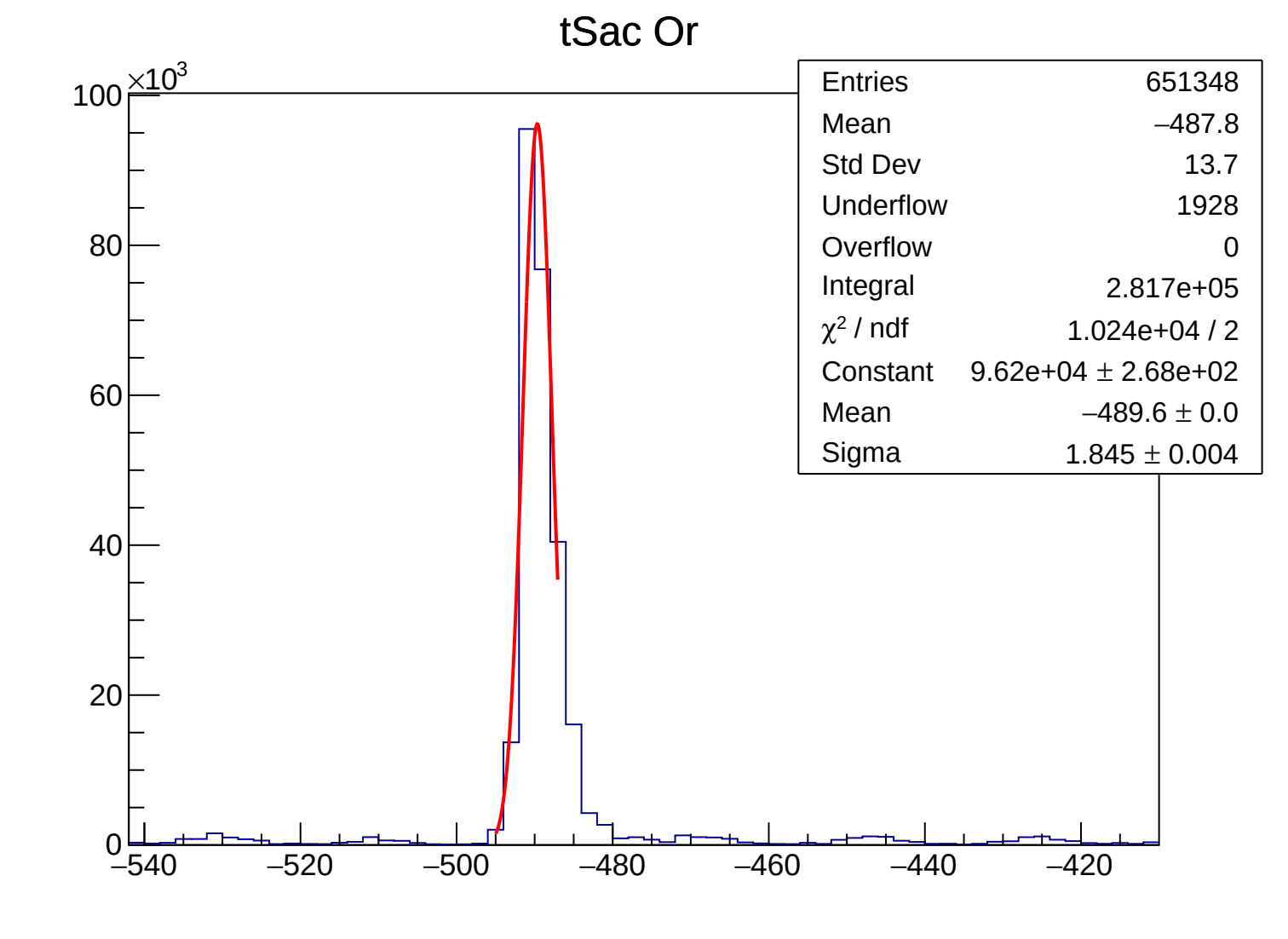

xsacKurama Cut1
Entries 16077
Mean –37.26
Std Dev 110.5
Underflow 0
Overflow 0
Integral 1.608e+04
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

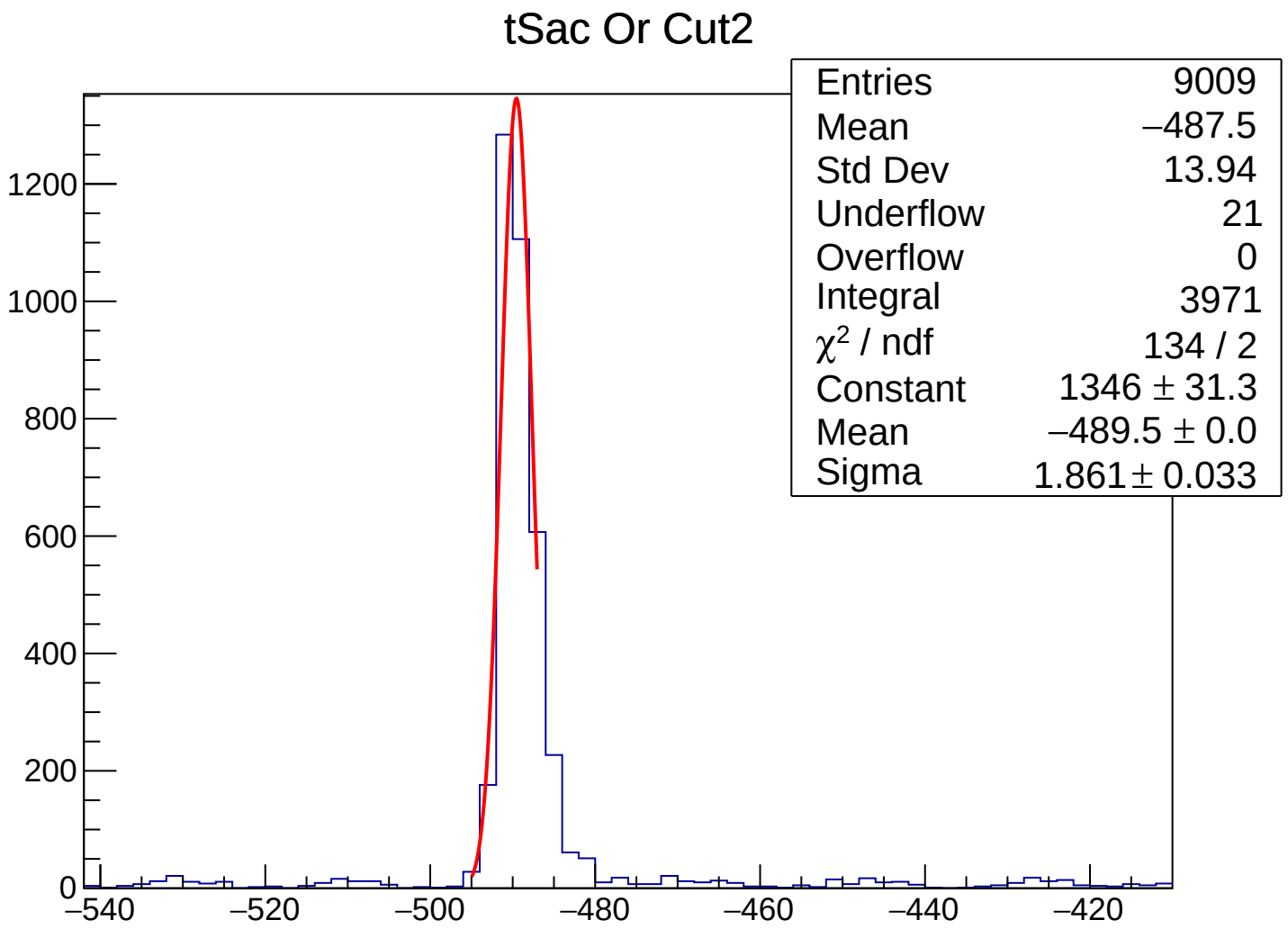

ysacKurama
Entries 98544
Mean –1.644
Std Dev 75.55
Underflow 0
Overflow 0
Integral 9.854e+04
1000
800
600
400
200
0
–400
–300
–200
–100
0
100
200
300
400

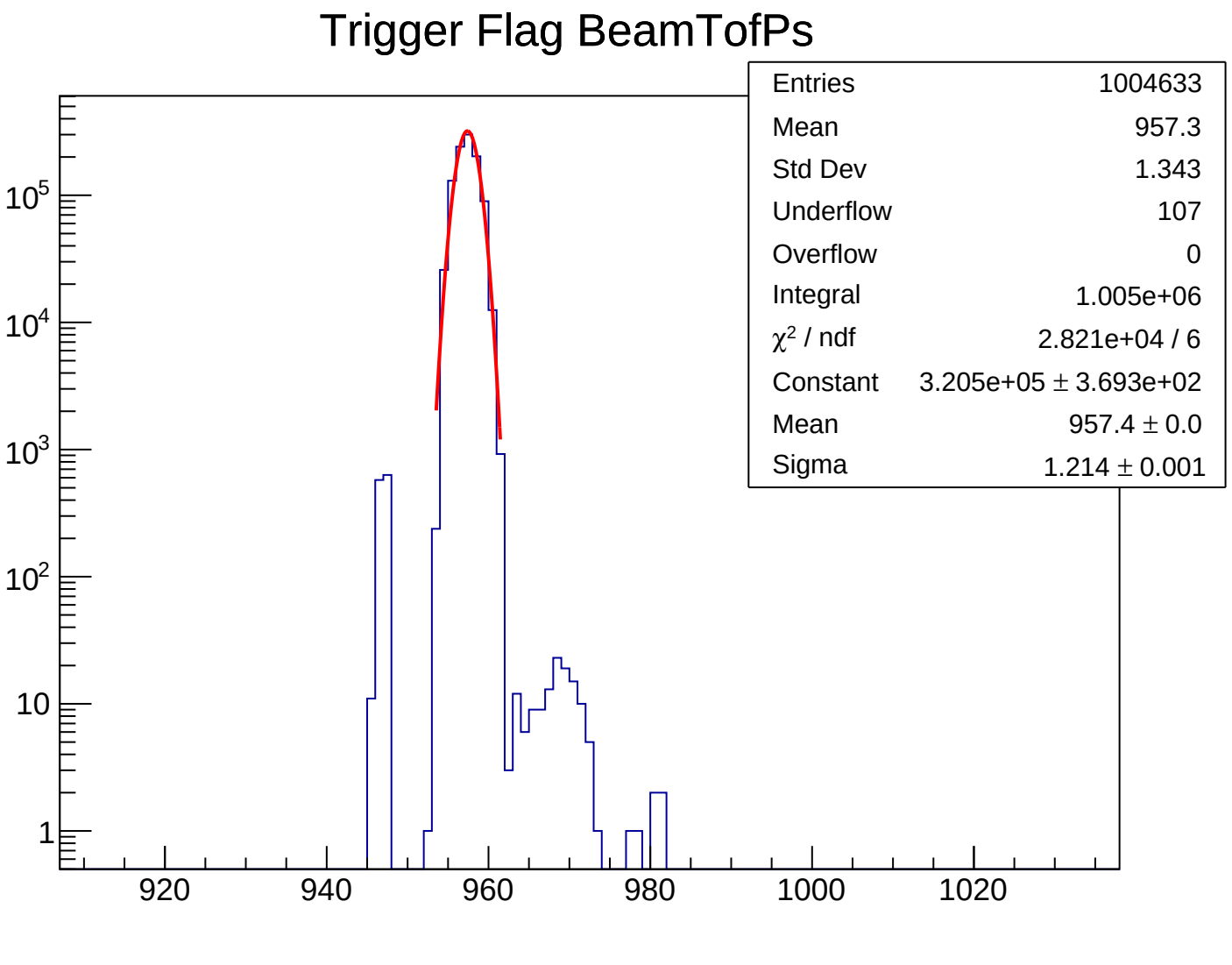

ysacKurama Cut1
Entries 16077
Mean −0.5775
Std Dev 98.39
Underflow 0
Overflow 0
Integral 1.608e+04
120
100
80
60
40
20
0
−400
−300
−200
−100
0
100
200
300
400

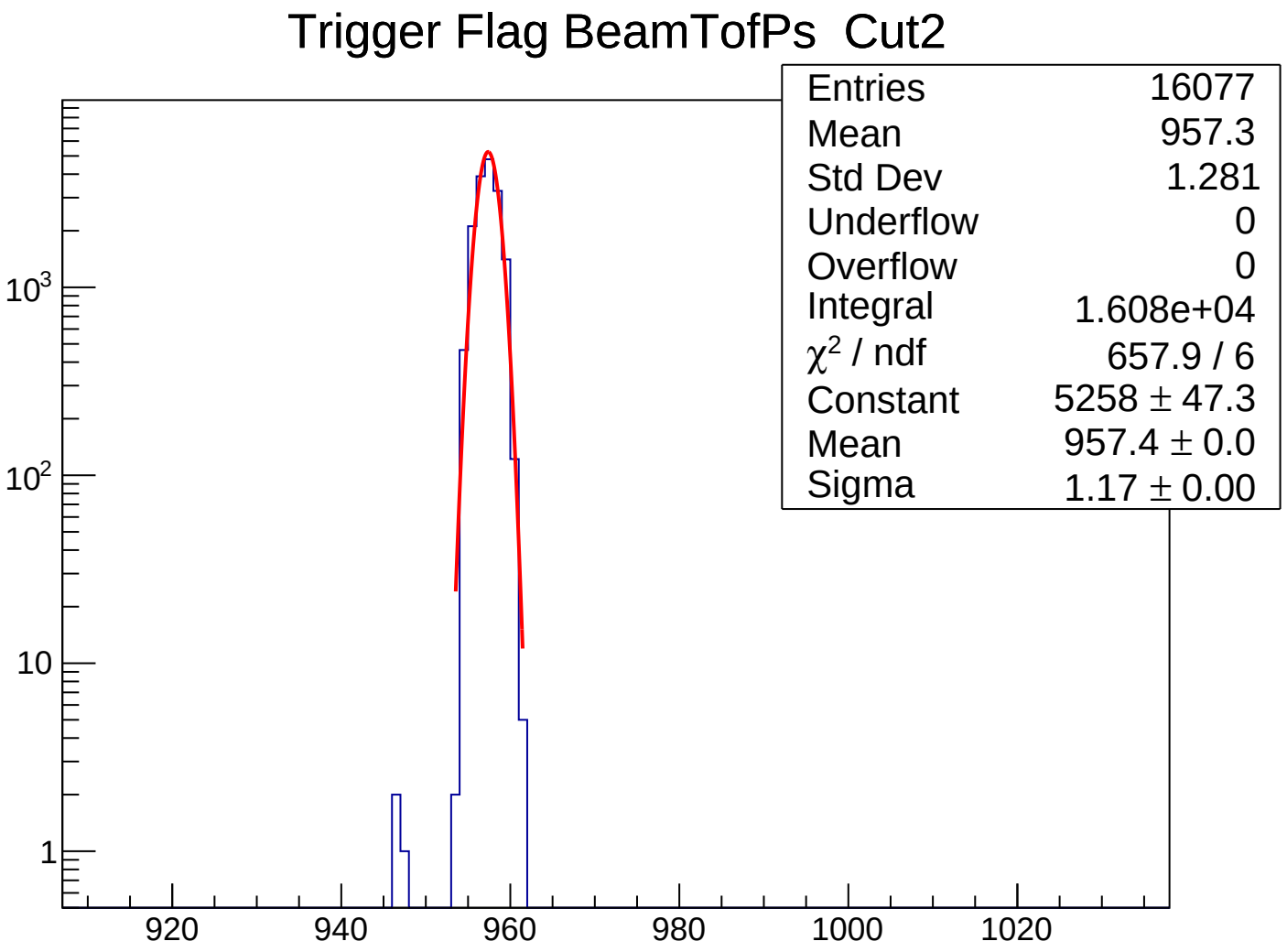

xsacKurama Cut2
Entries 16788
Mean –37.63
Std Dev 110.2
Underflow 0
Overflow 0
Integral 1.679e+04
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

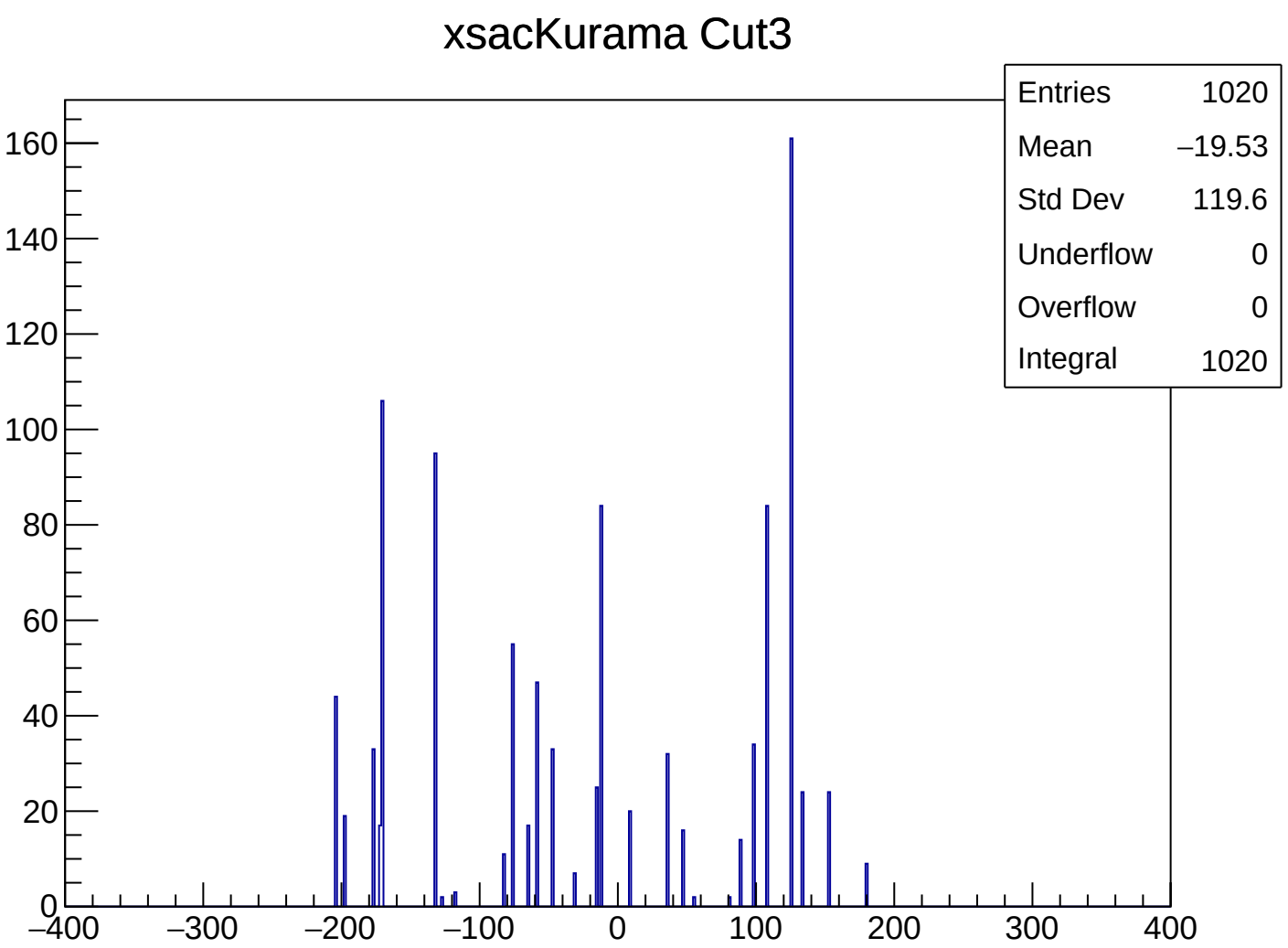

ysacKurama Cut2
Entries 16788
Mean −0.6696
Std Dev 98.2
Underflow 0
Overflow 0
Integral 1.679e+04
120
100
80
60
40
20
0
−400
−300
−200
−100
0
100
200
300
400

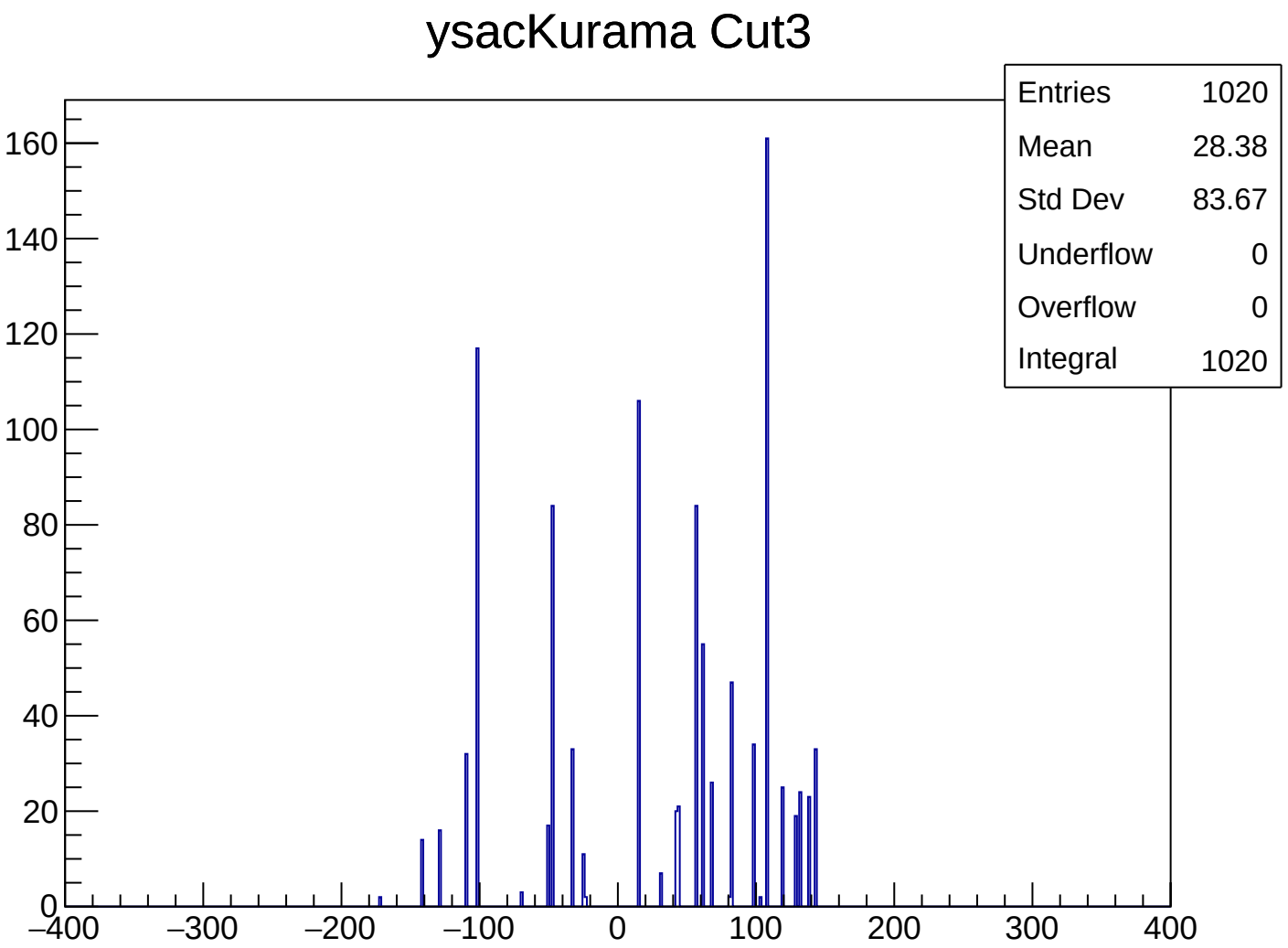

tSac Or
×10^3
100
80
60
40
20
0
–540
–520
–500
–480
–460
–440
–420
Entries 651348
Mean –487.8
Std Dev 13.7
Underflow 1928
Overflow 0
Integral 2.817e+05
χ² / ndf 1.024e+04 / 2
Constant 9.62e+04 ± 2.68e+02
Mean –489.6 ± 0.0
Sigma 1.845 ± 0.004

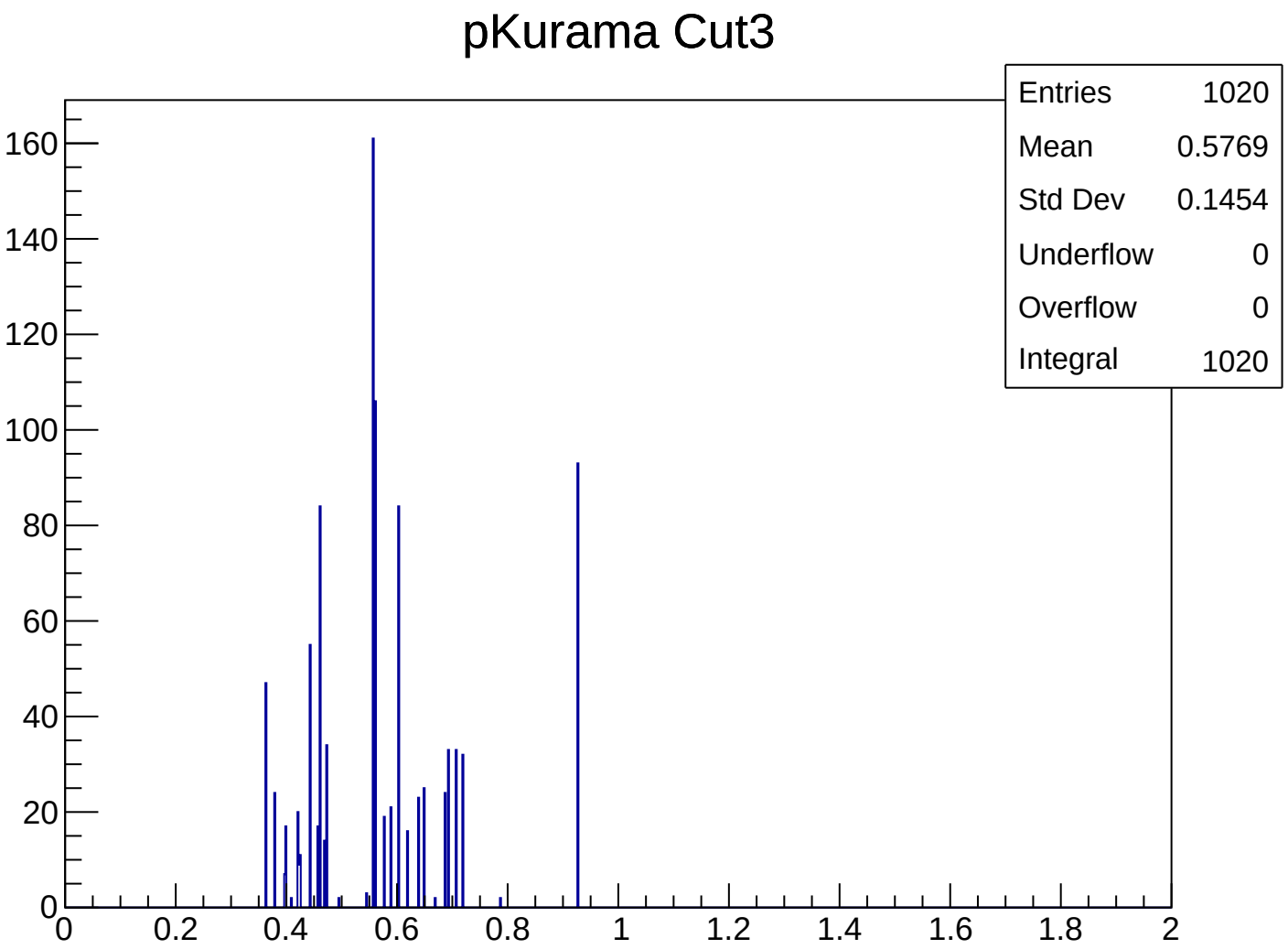

tSac Or Cut2
Entries 9009
Mean –487.5
Std Dev 13.94
Underflow 21
Overflow 0
Integral 3971
χ² / ndf 134 / 2
Constant 1346 ± 31.3
Mean –489.5 ± 0.0
Sigma 1.861 ± 0.033
1200
1000
800
600
400
200
0
–540
–520
–500
–480
–460
–440
–420

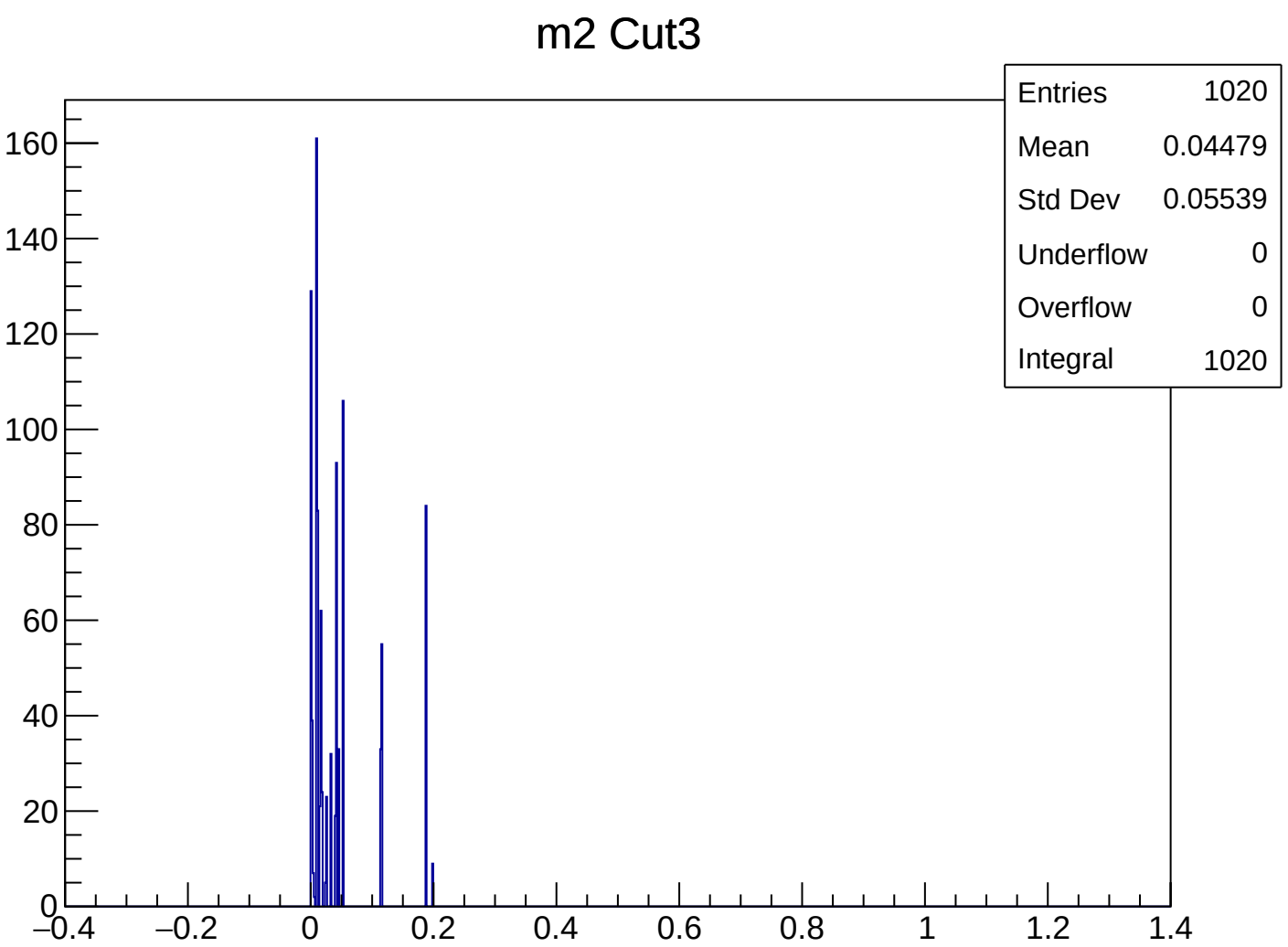

Trigger Flag BeamTofPs
Entries 1004633
Mean 957.3
Std Dev 1.343
Underflow 107
Overflow 0
Integral 1.005e+06
χ² / ndf 2.821e+04 / 6
Constant 3.205e+05 ± 3.693e+02
Mean 957.4 ± 0.0
Sigma 1.214 ± 0.001
10⁵
10⁴
10³
10²
10
1
920
940
960
980
1000
1020

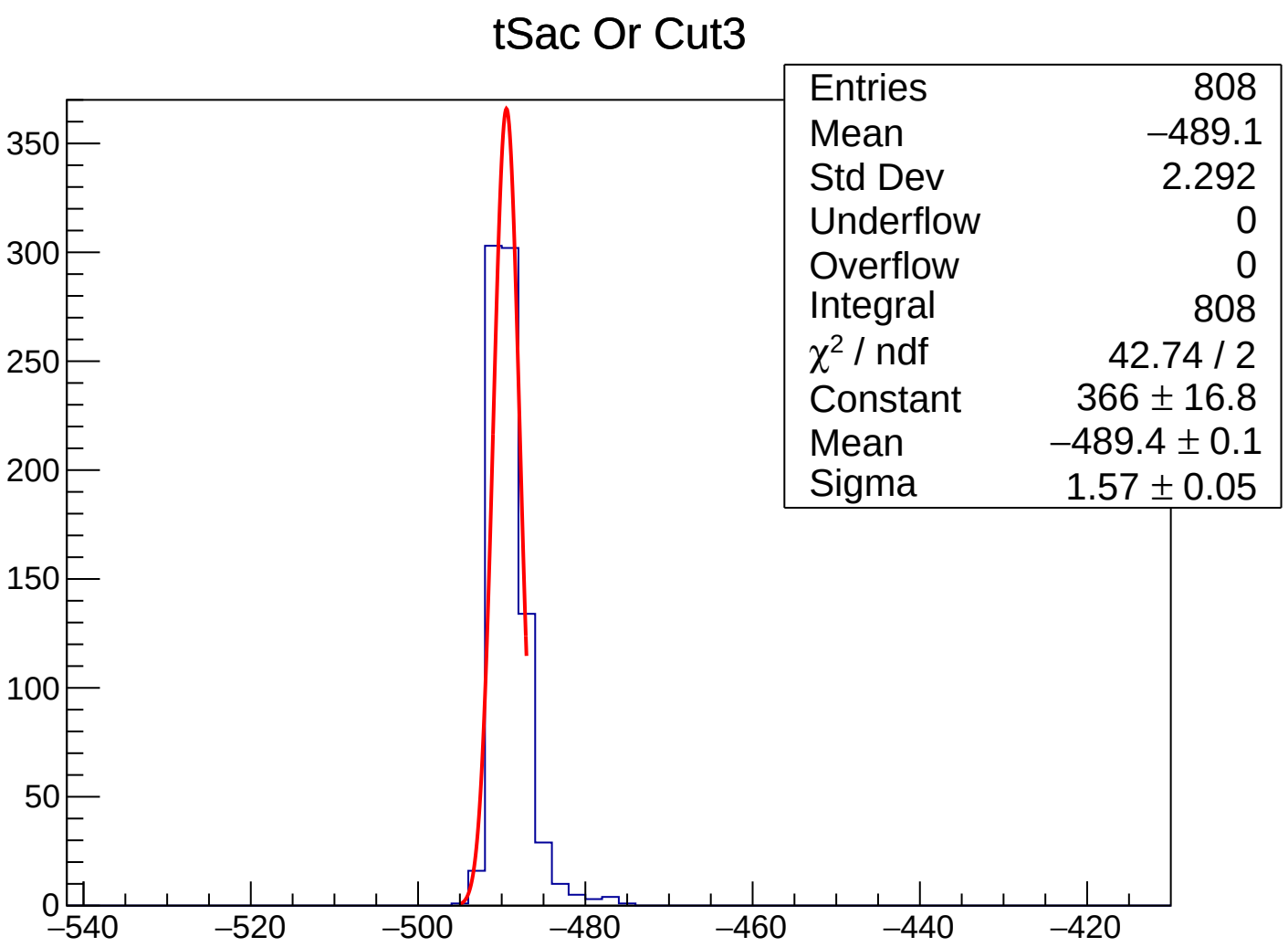

Trigger Flag BeamTofPs Cut2
Entries 16077
Mean 957.3
Std Dev 1.281
Underflow 0
Overflow 0
Integral 1.608e+04
χ² / ndf 657.9 / 6
Constant 5258 ± 47.3
Mean 957.4 ± 0.0
Sigma 1.17 ± 0.00
10³
10²
10
1
920
940
960
980
1000
1020

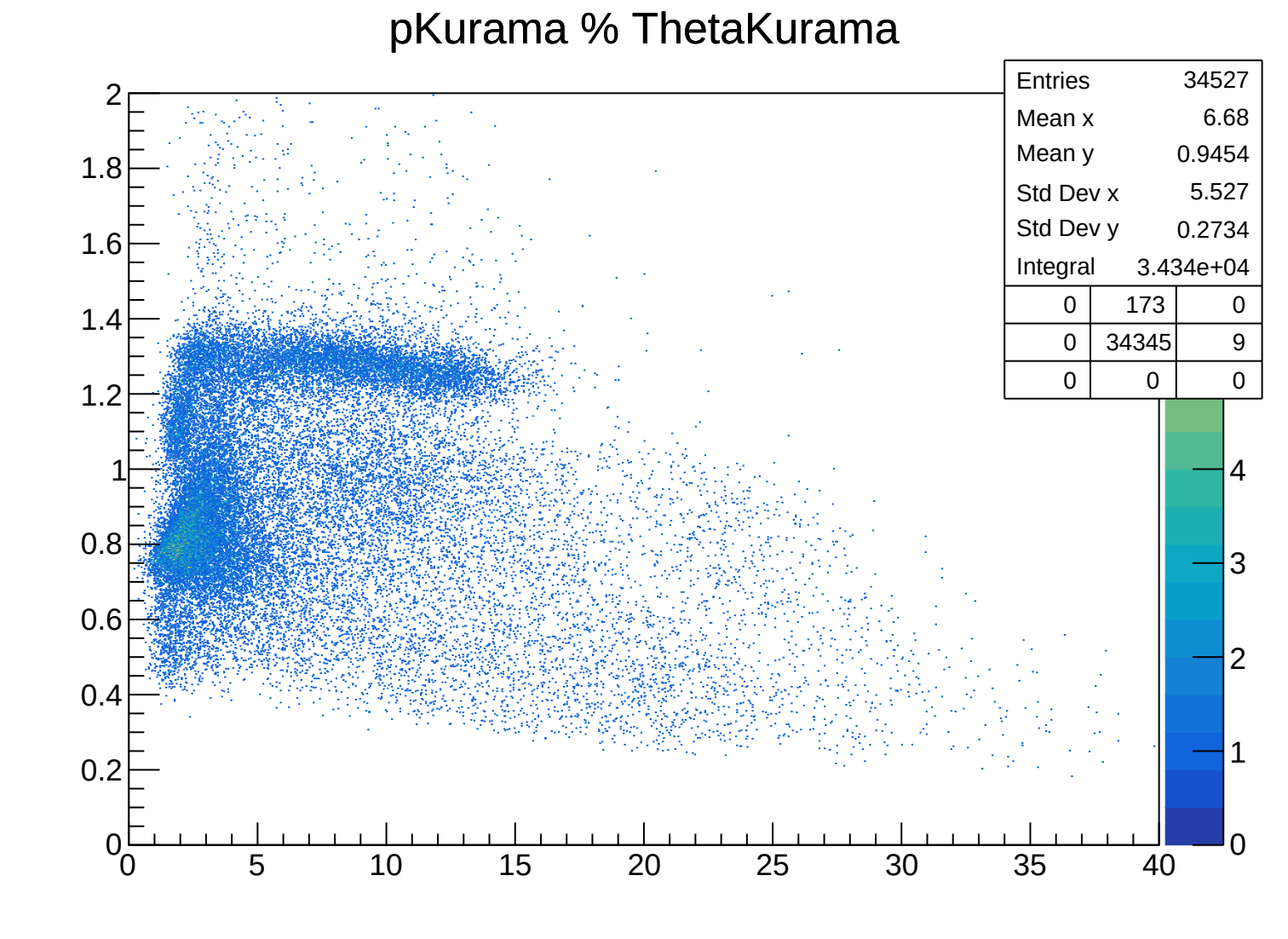

xsacKurama Cut3
Entries 1020
Mean −19.53
Std Dev 119.6
Underflow 0
Overflow 0
Integral 1020
160
140
120
100
80
60
40
20
0
−400
−300
−200
−100
0
100
200
300
400

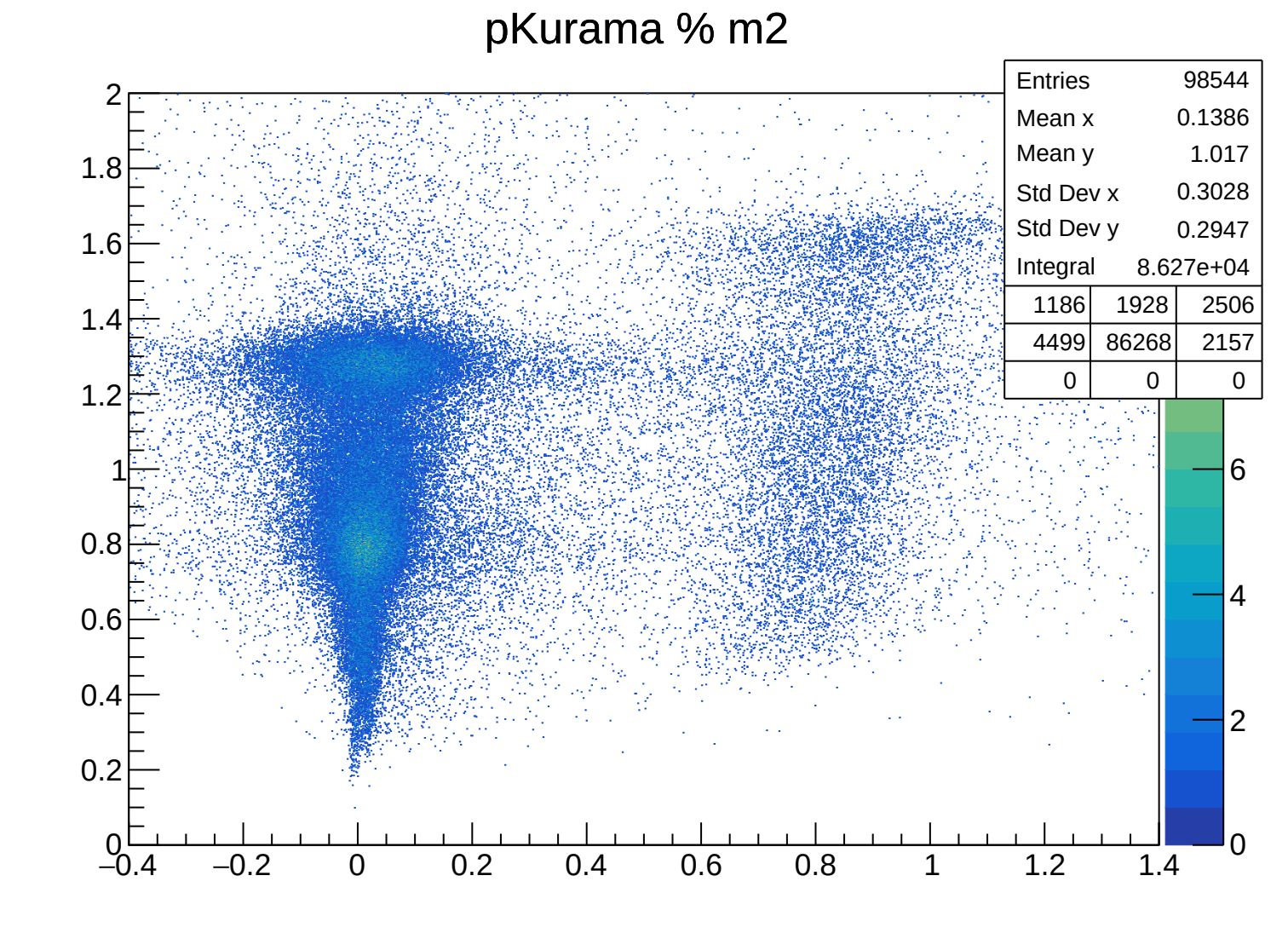

ysacKurama Cut3
Entries 1020
Mean 28.38
Std Dev 83.67
Underflow 0
Overflow 0
Integral 1020
160
140
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

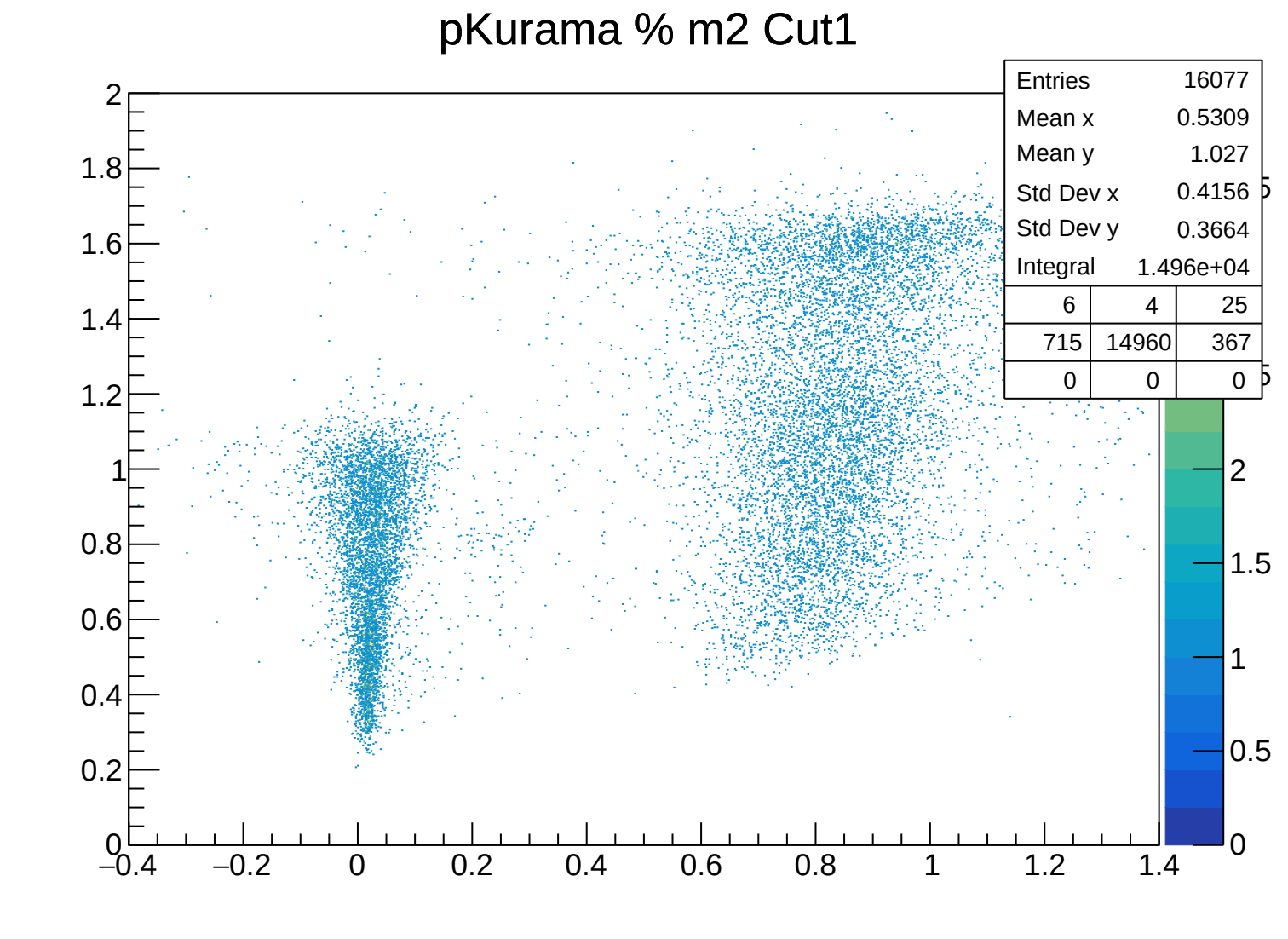

pKurama Cut3
Entries 1020
Mean 0.5769
Std Dev 0.1454
Underflow 0
Overflow 0
Integral 1020
160
140
120
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

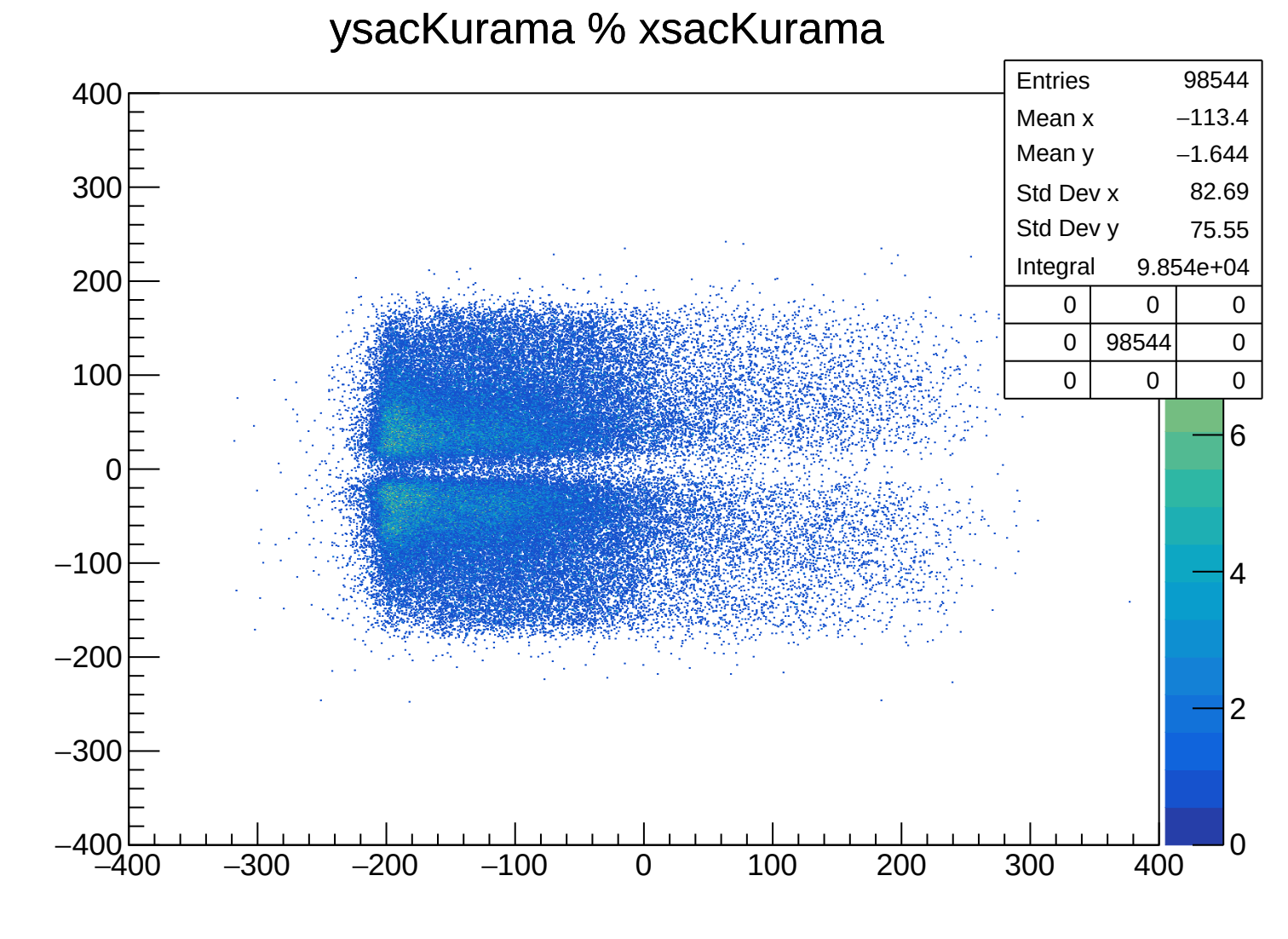

m2 Cut3
Entries 1020
Mean 0.04479
Std Dev 0.05539
Underflow 0
Overflow 0
Integral 1020
160
140
120
100
80
60
40
20
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

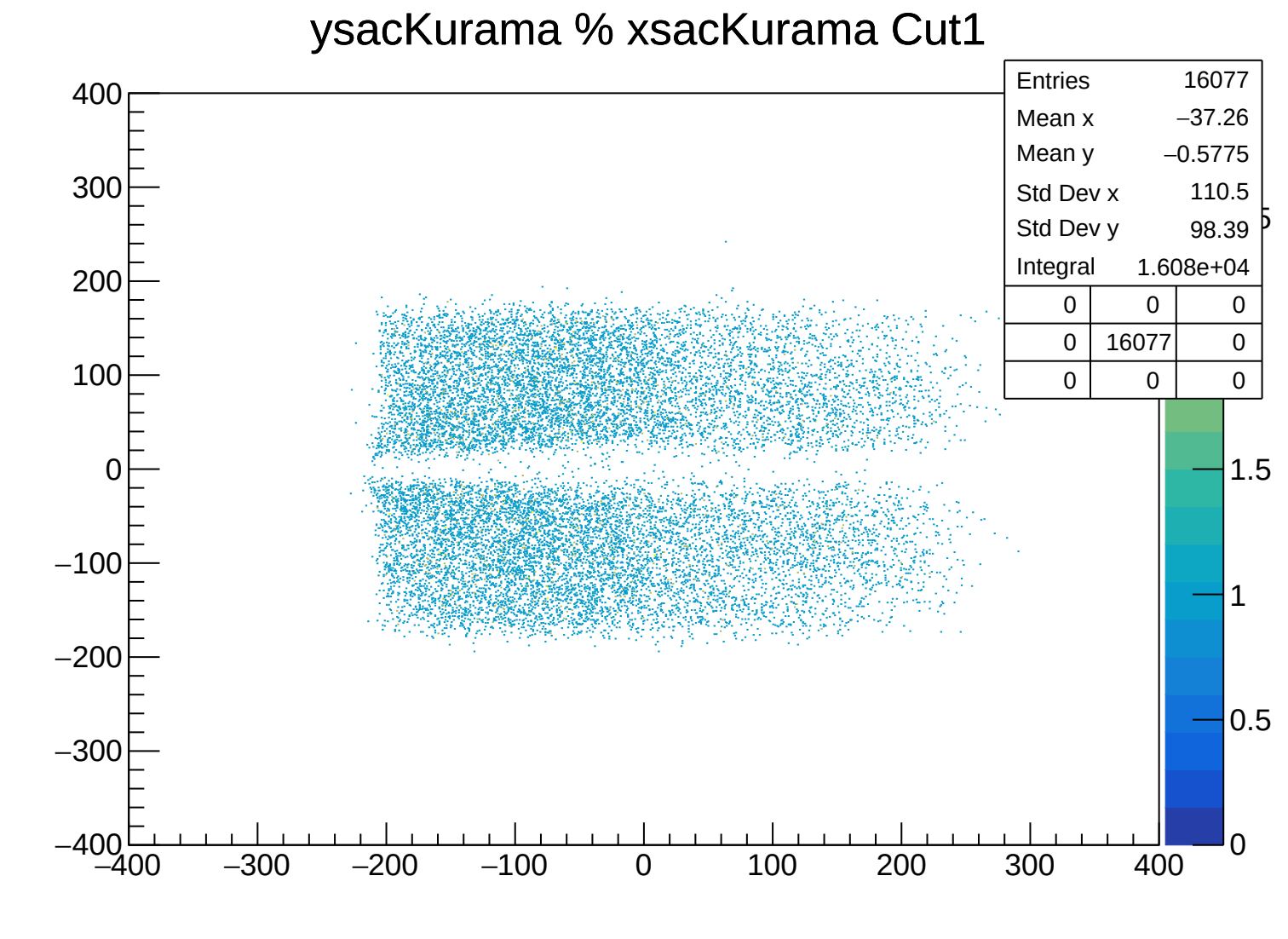

tSac Or Cut3
Entries 808
Mean –489.1
Std Dev 2.292
Underflow 0
Overflow 0
Integral 808
χ² / ndf 42.74 / 2
Constant 366 ± 16.8
Mean –489.4 ± 0.1
Sigma 1.57 ± 0.05
350
300
250
200
150
100
50
0
–540
–520
–500
–480
–460
–440
–420

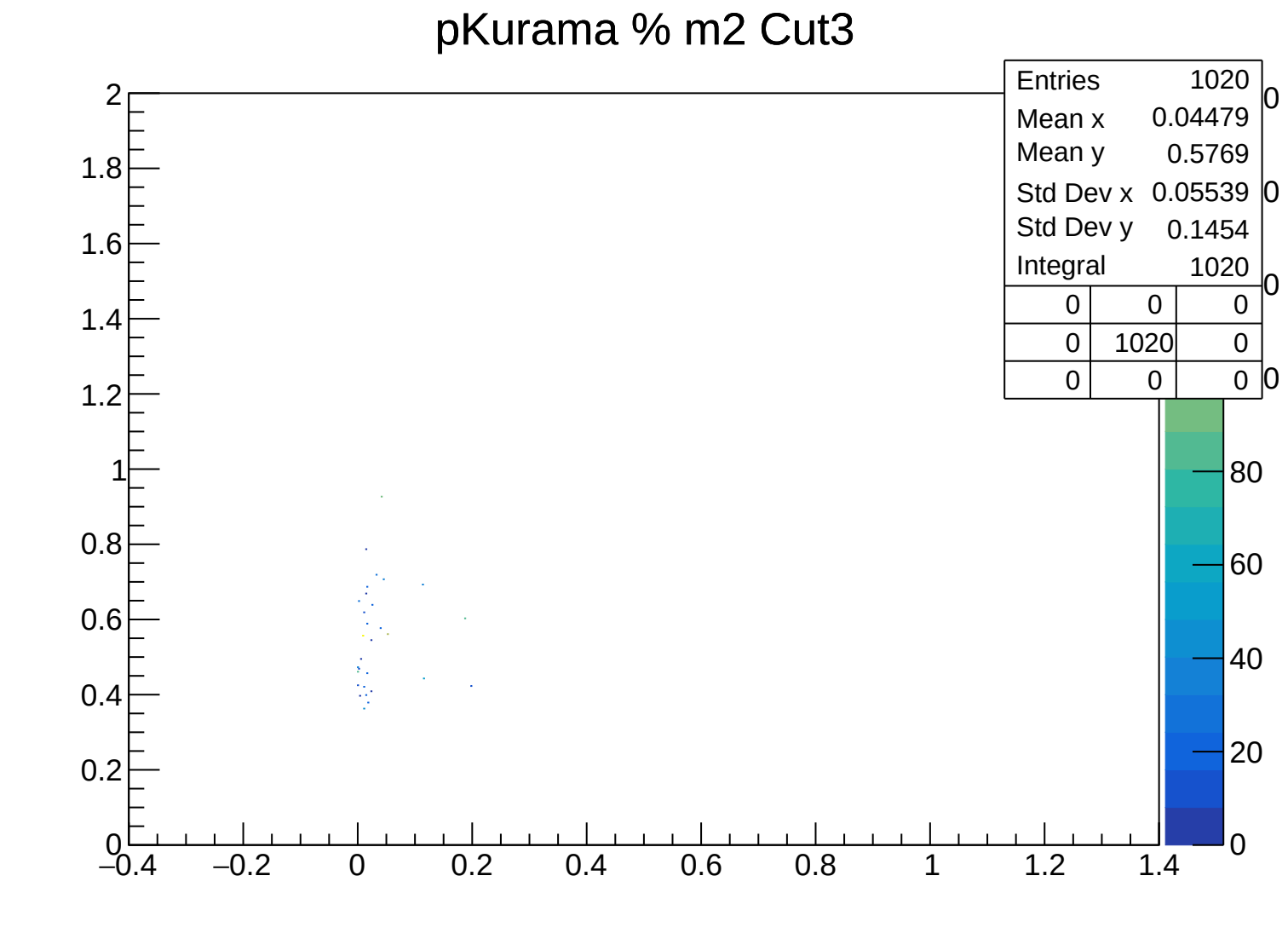

pKurama % ThetaKurama
Entries 34527
Mean x 6.68
Mean y 0.9454
Std Dev x 5.527
Std Dev y 0.2734
Integral 3.434e+04
0 173 0
0 34345 9
0 0 0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 5 10 15 20 25 30 35 40
0 1 2 3 4

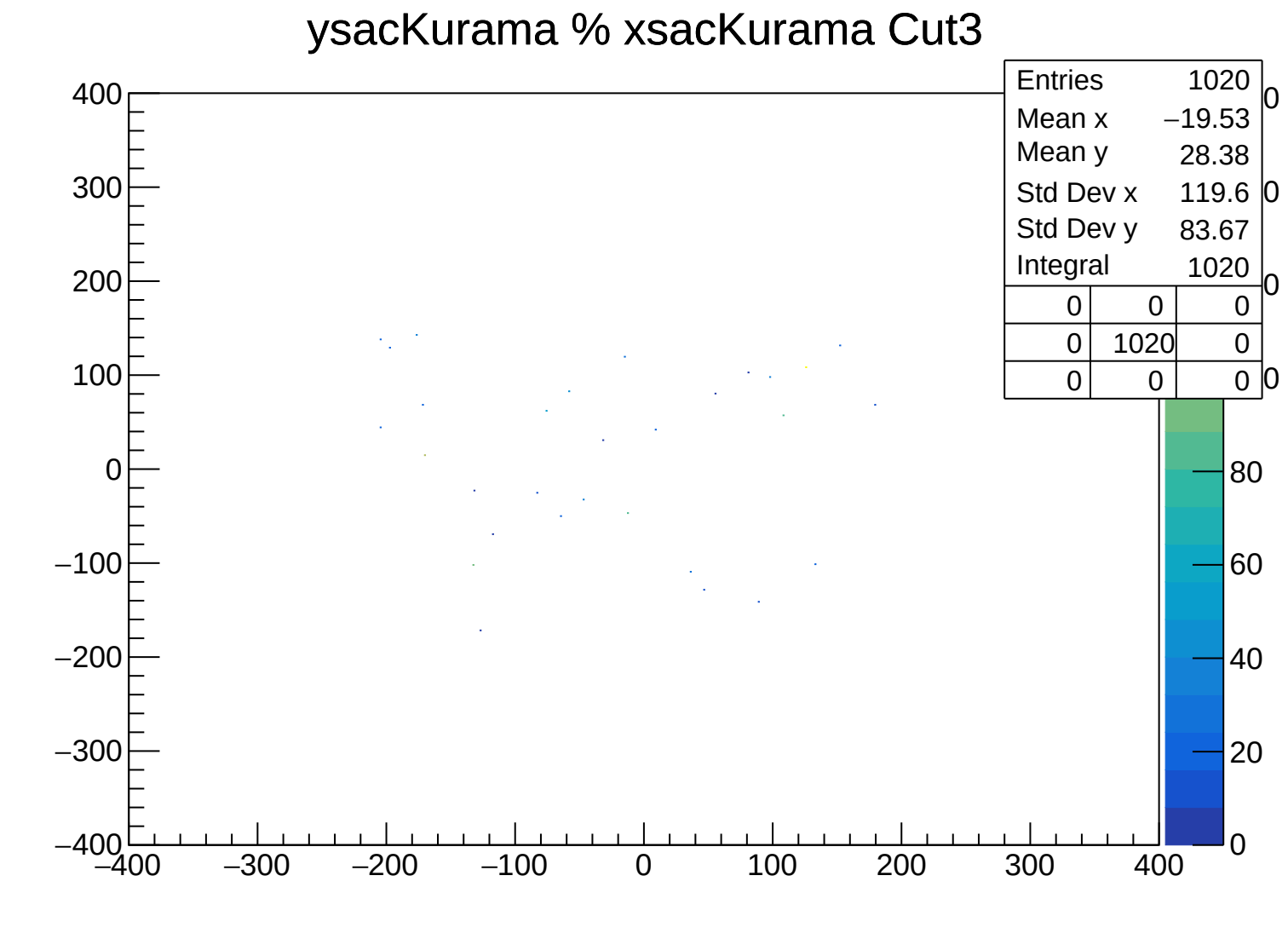

pKurama % m2
Entries 98544
Mean x 0.1386
Mean y 1.017
Std Dev x 0.3028
Std Dev y 0.2947
Integral 8.627e+04
1186 1928 2506
4499 86268 2157
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
6
4
2
0


pKurama % m2 Cut1
Entries 16077
Mean x 0.5309
Mean y 1.027
Std Dev x 0.4156
Std Dev y 0.3664
Integral 1.496e+04
6 4 25
715 14960 367
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
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
6
4
2
0


ysacKurama % xsacKurama Cut1
Entries 16077
Mean x –37.26
Mean y –0.5775
Std Dev x 110.5
Std Dev y 98.39
Integral 1.608e+04
0 0 0
0 16077 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
1.5
1
0.5
0


pKurama % m2 Cut3
Entries 1020
Mean x 0.04479
Mean y 0.5769
Std Dev x 0.05539
Std Dev y 0.1454
Integral 1020
0 0 0
0 1020 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 1020
Mean x −19.53
Mean y 28.38
Std Dev x 119.6
Std Dev y 83.67
Integral 1020
0 0 0
0 1020 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