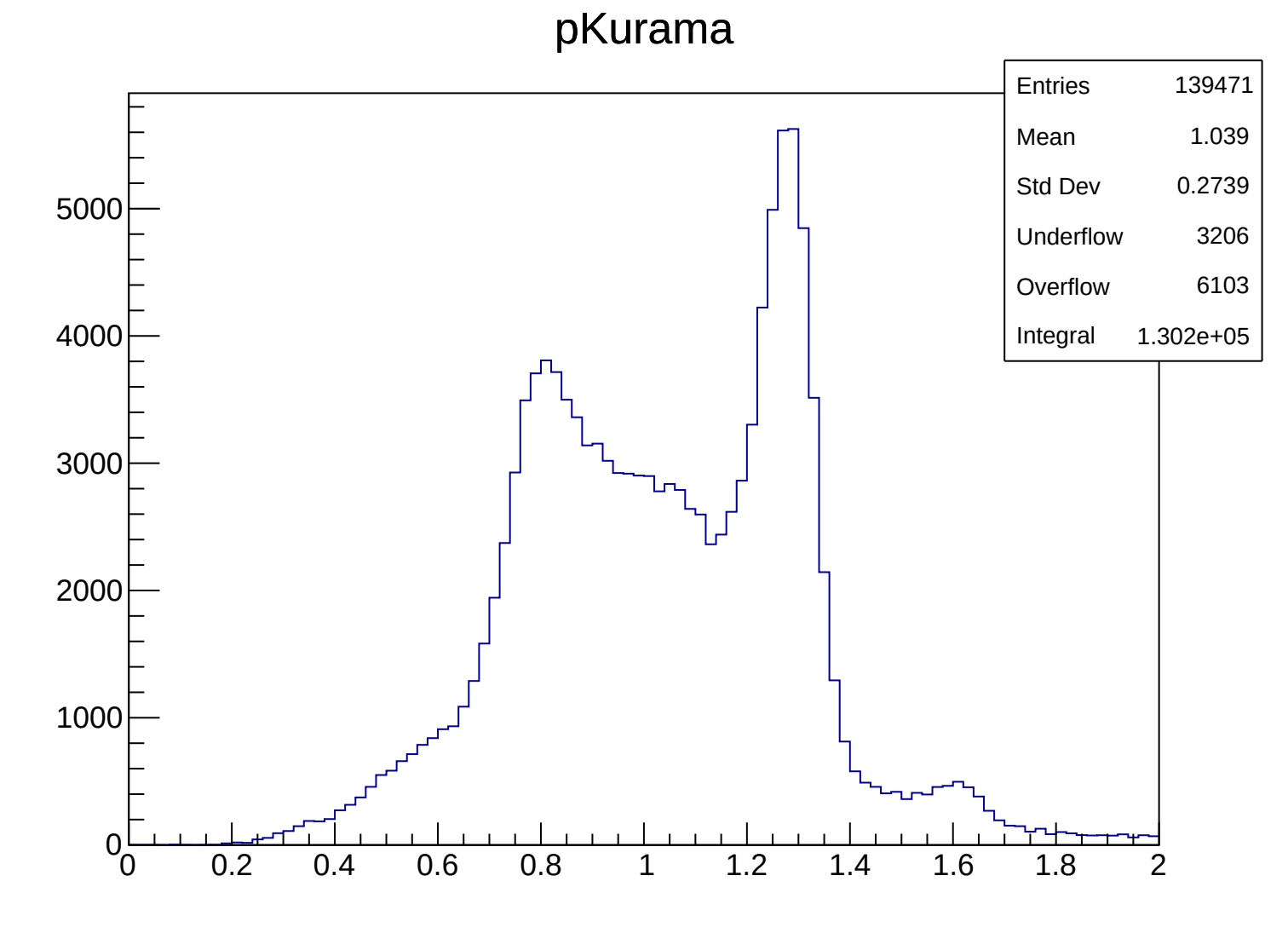
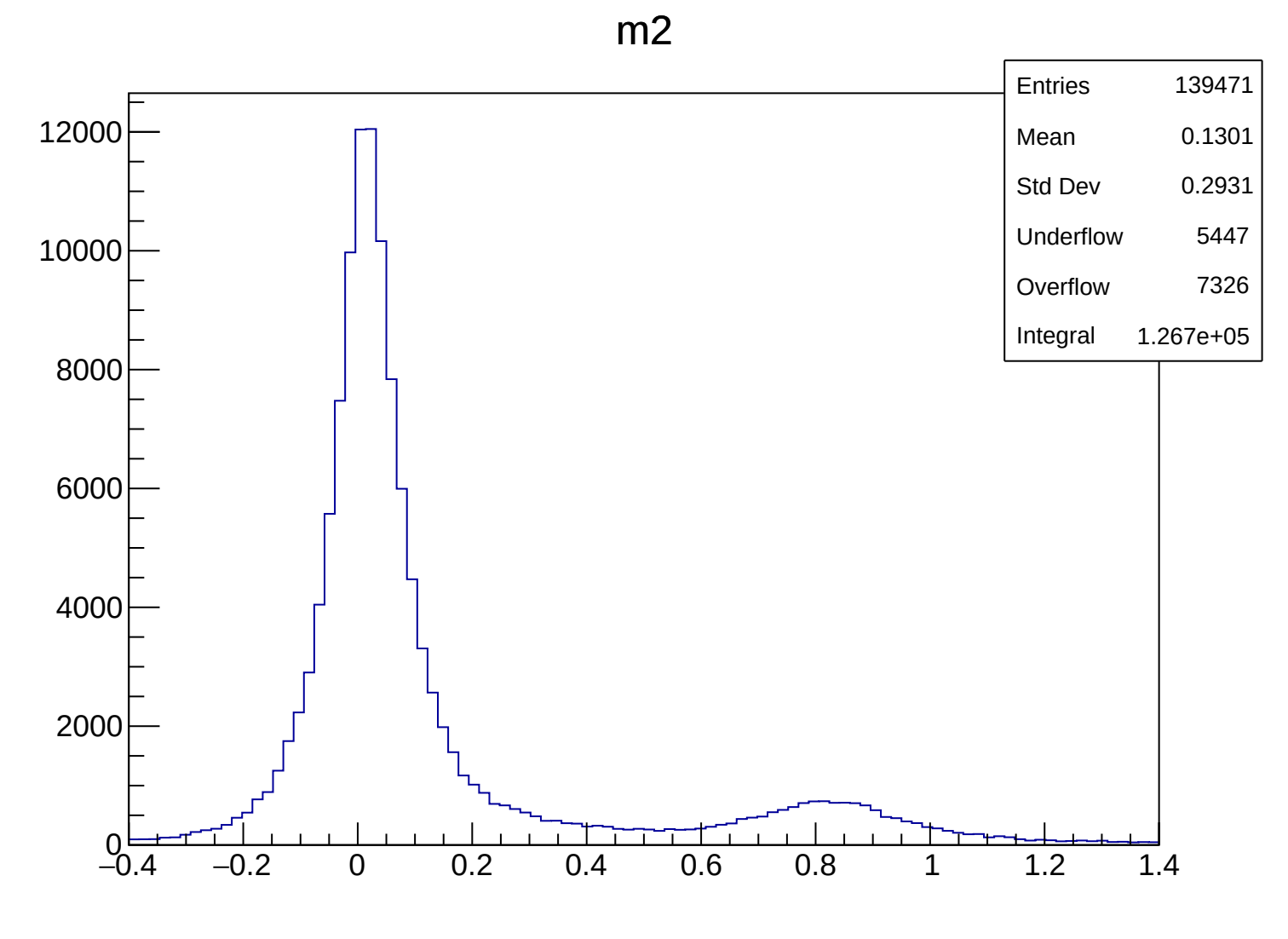
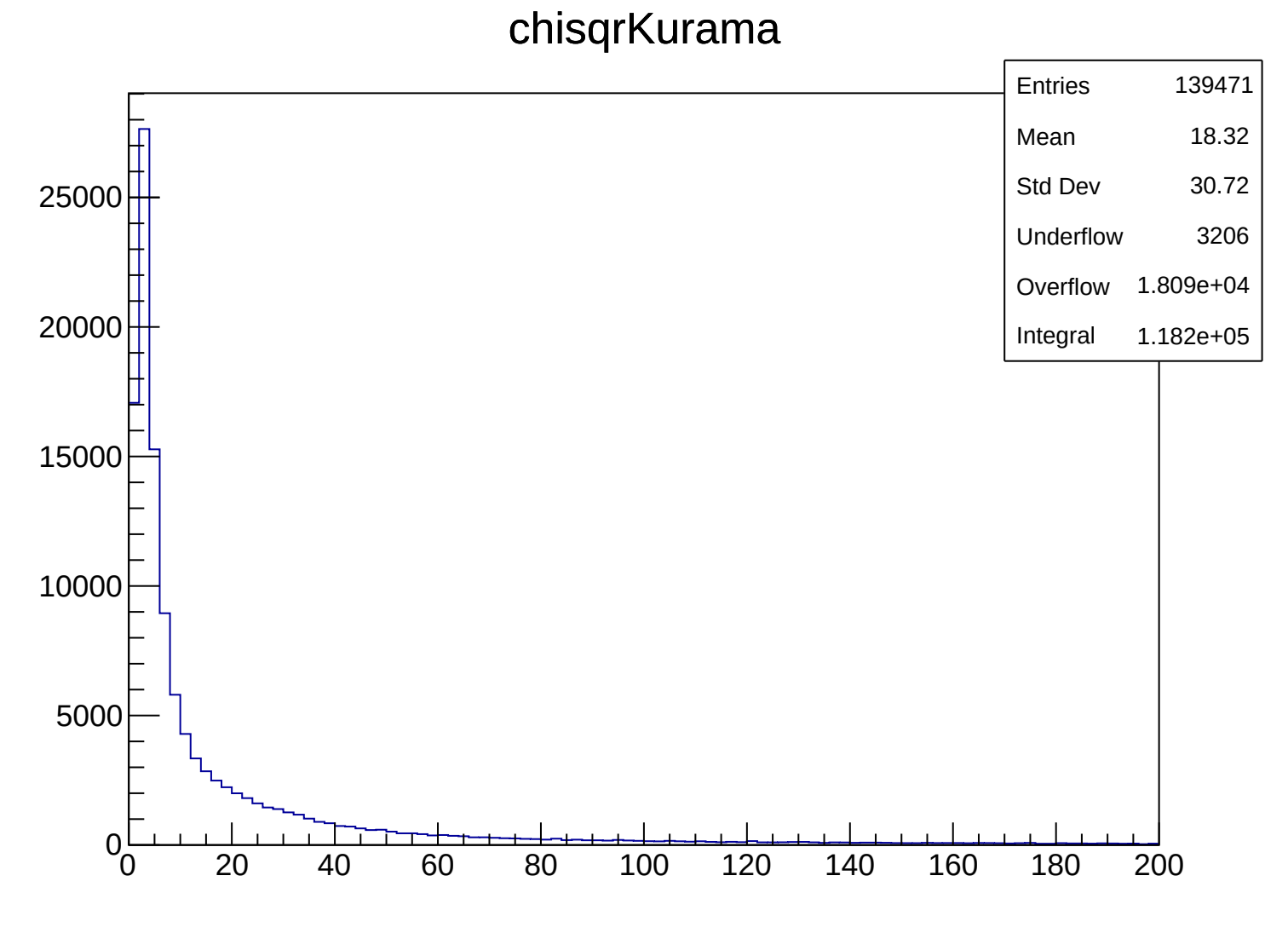
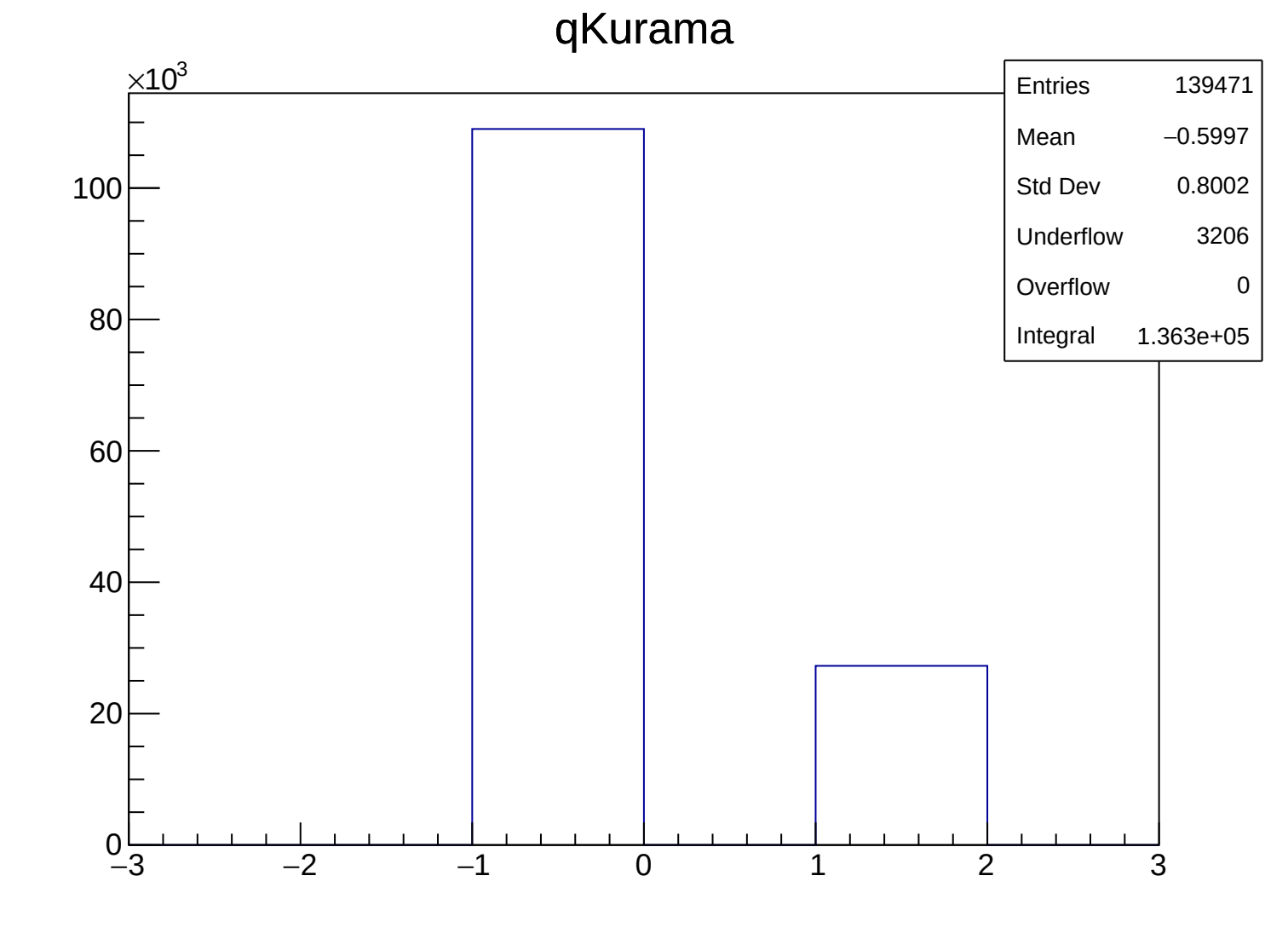
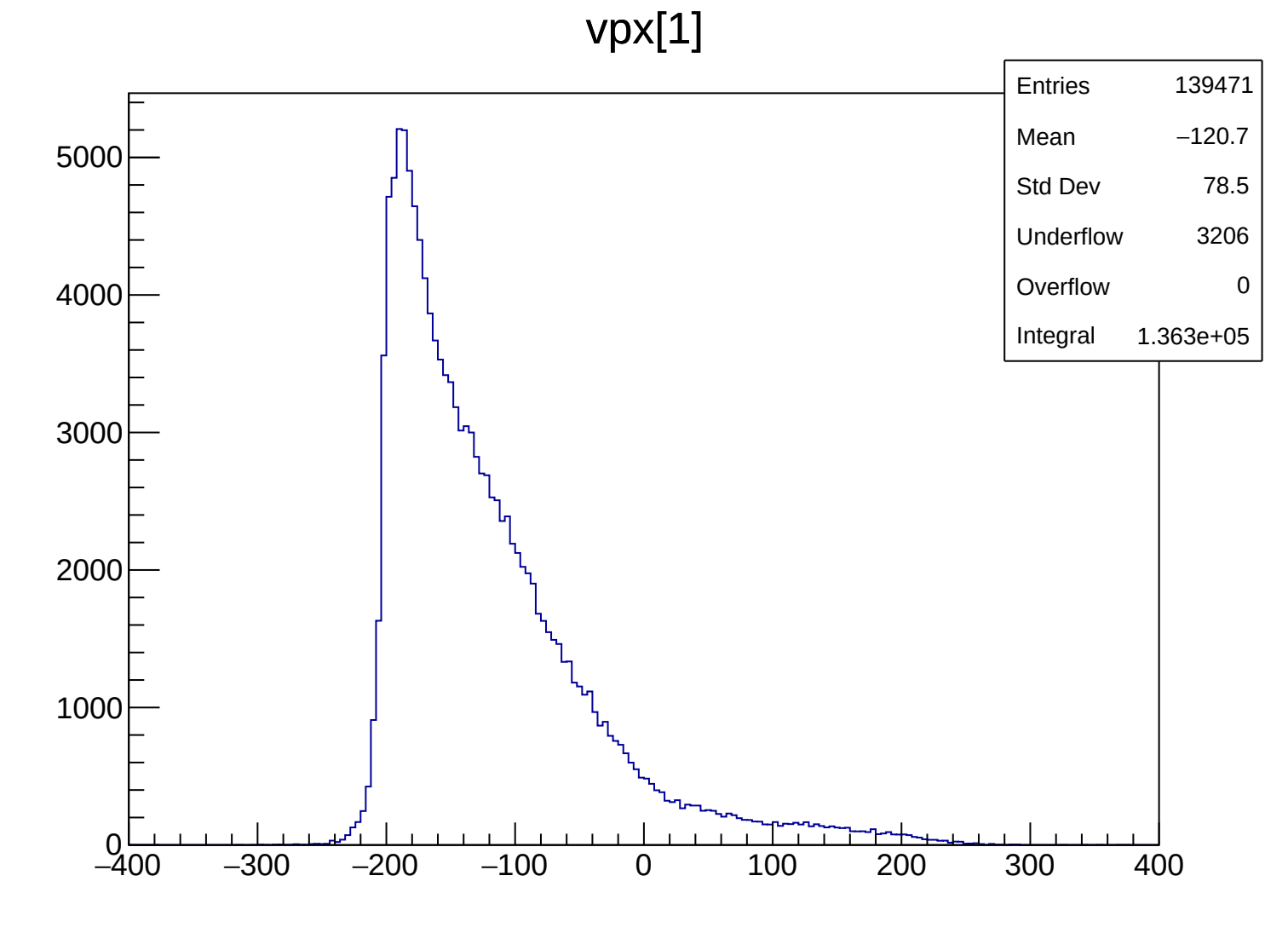
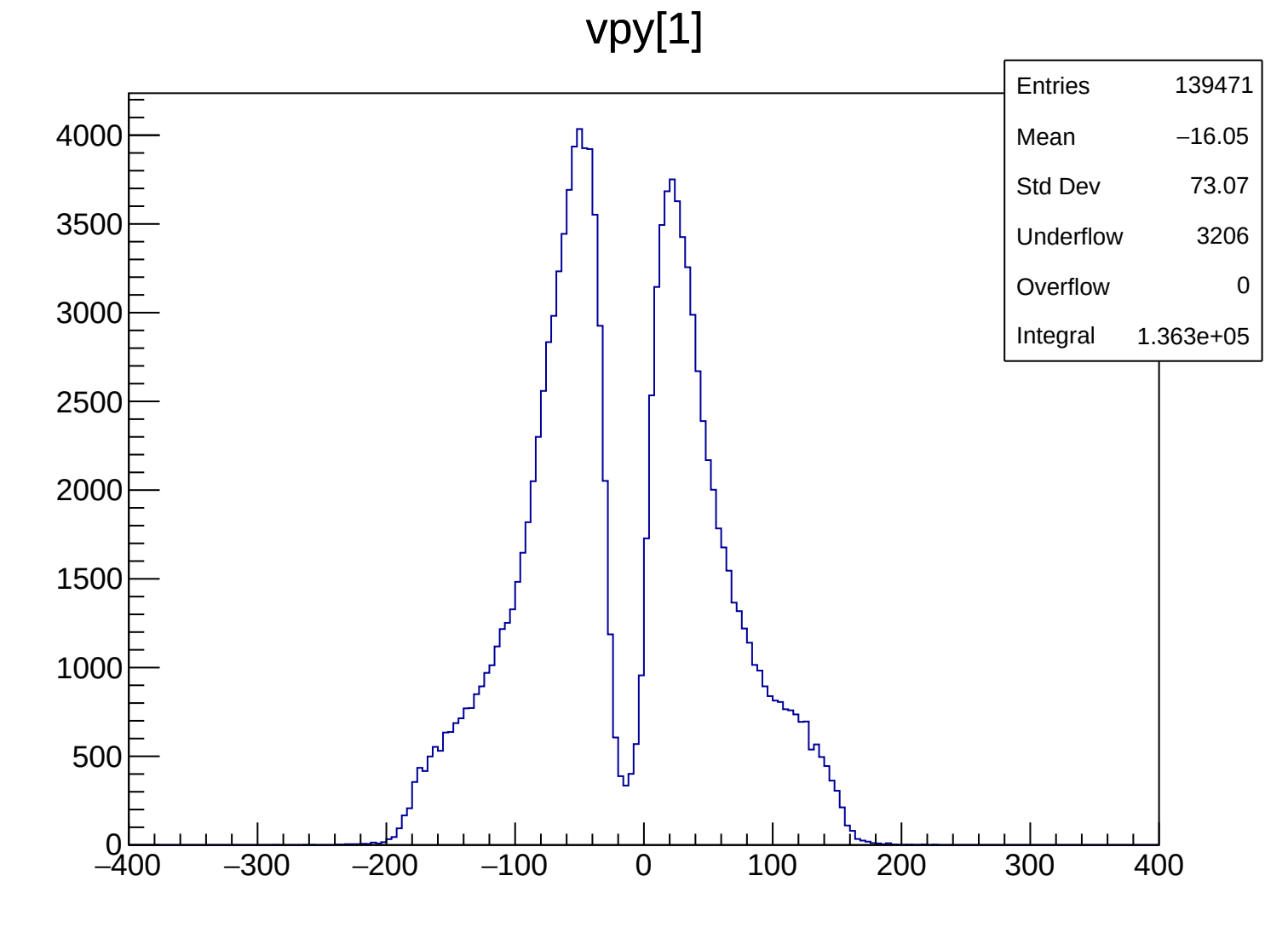

pKurama
Entries 139471
Mean 1.039
Std Dev 0.2739
Underflow 3206
Overflow 6103
Integral 1.302e+05
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

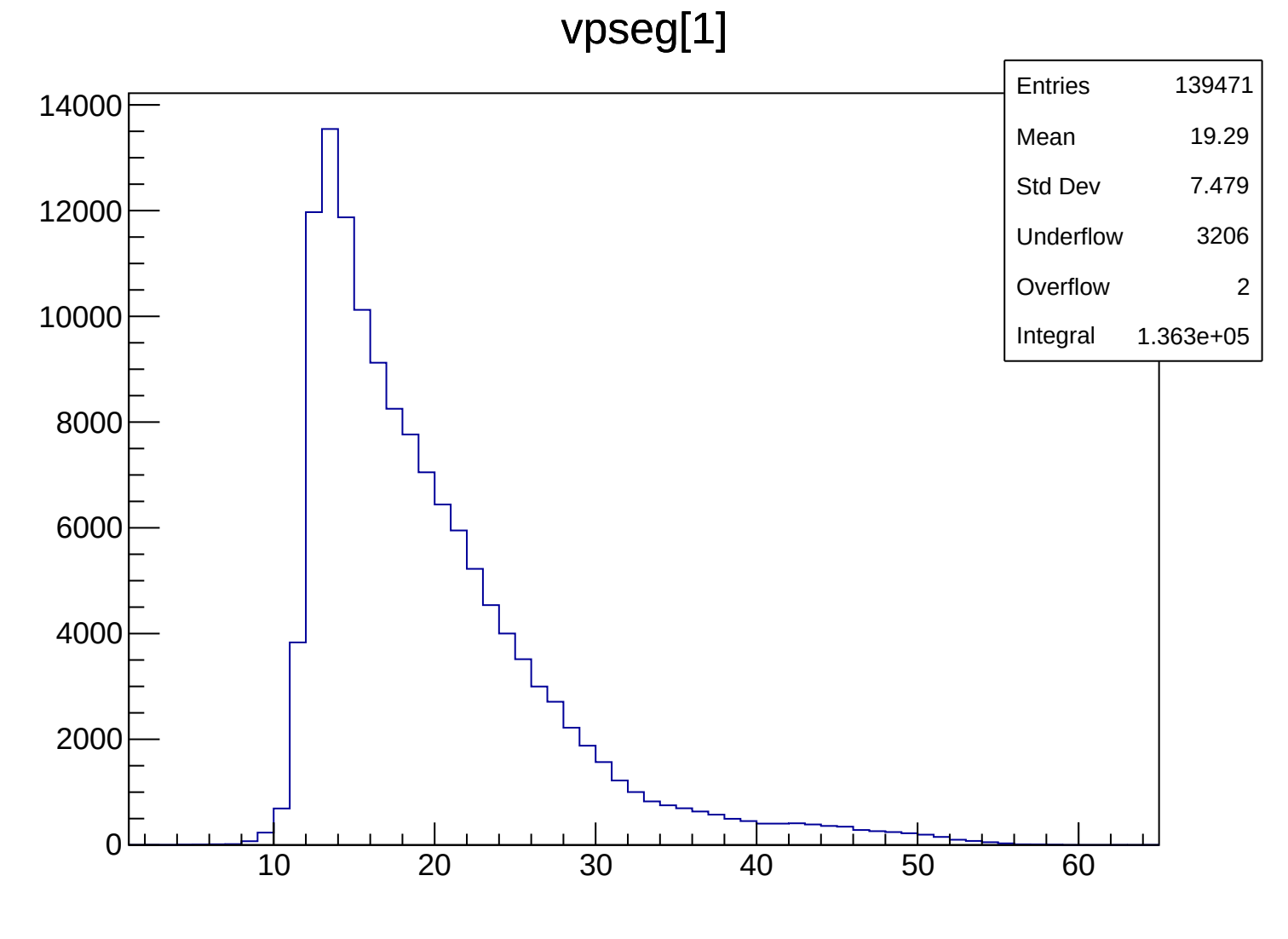

m2
Entries 139471
Mean 0.1301
Std Dev 0.2931
Underflow 5447
Overflow 7326
Integral 1.267e+05
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

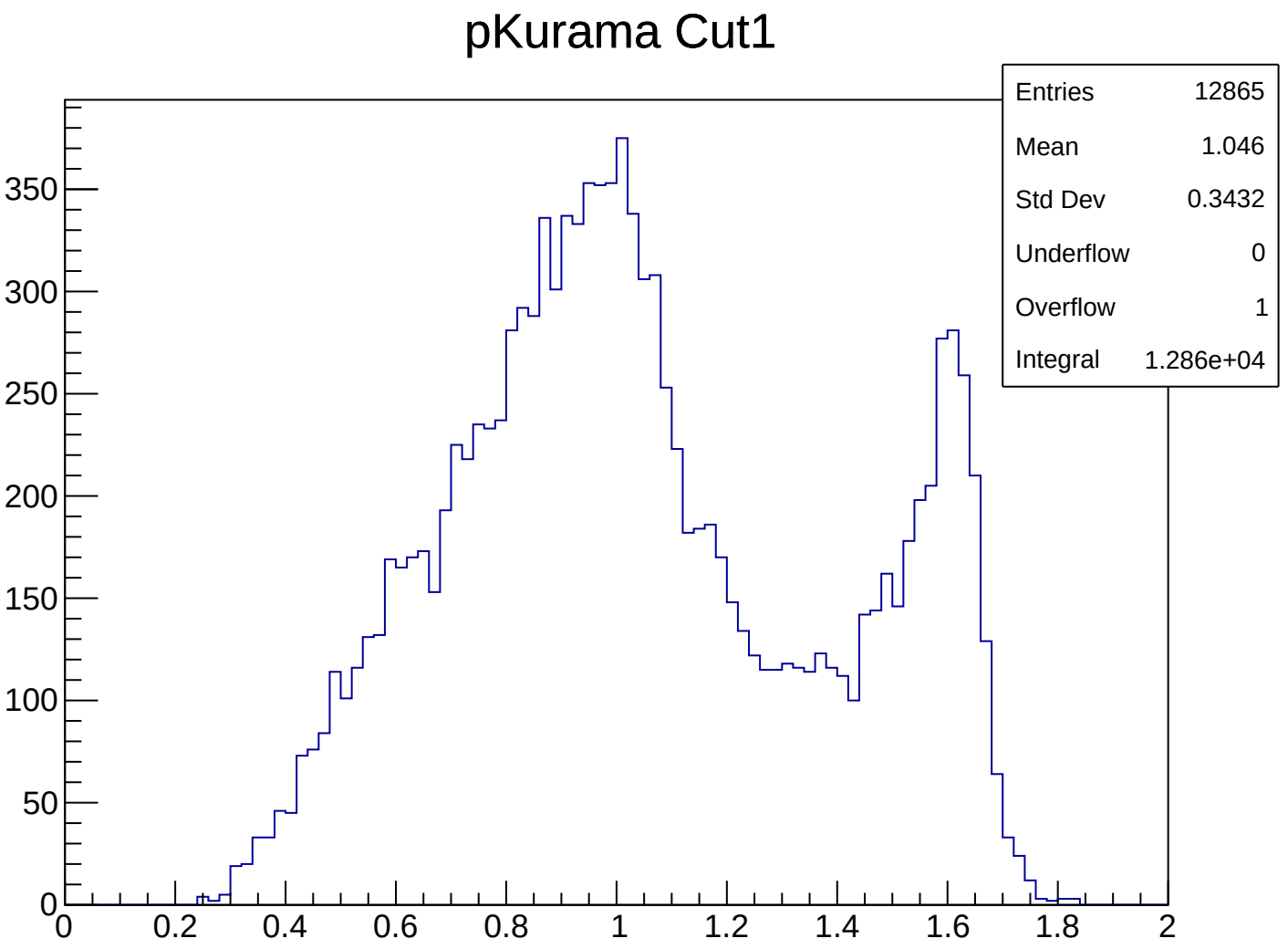

chisqrKurama
Entries 139471
Mean 18.32
Std Dev 30.72
Underflow 3206
Overflow 1.809e+04
Integral 1.182e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

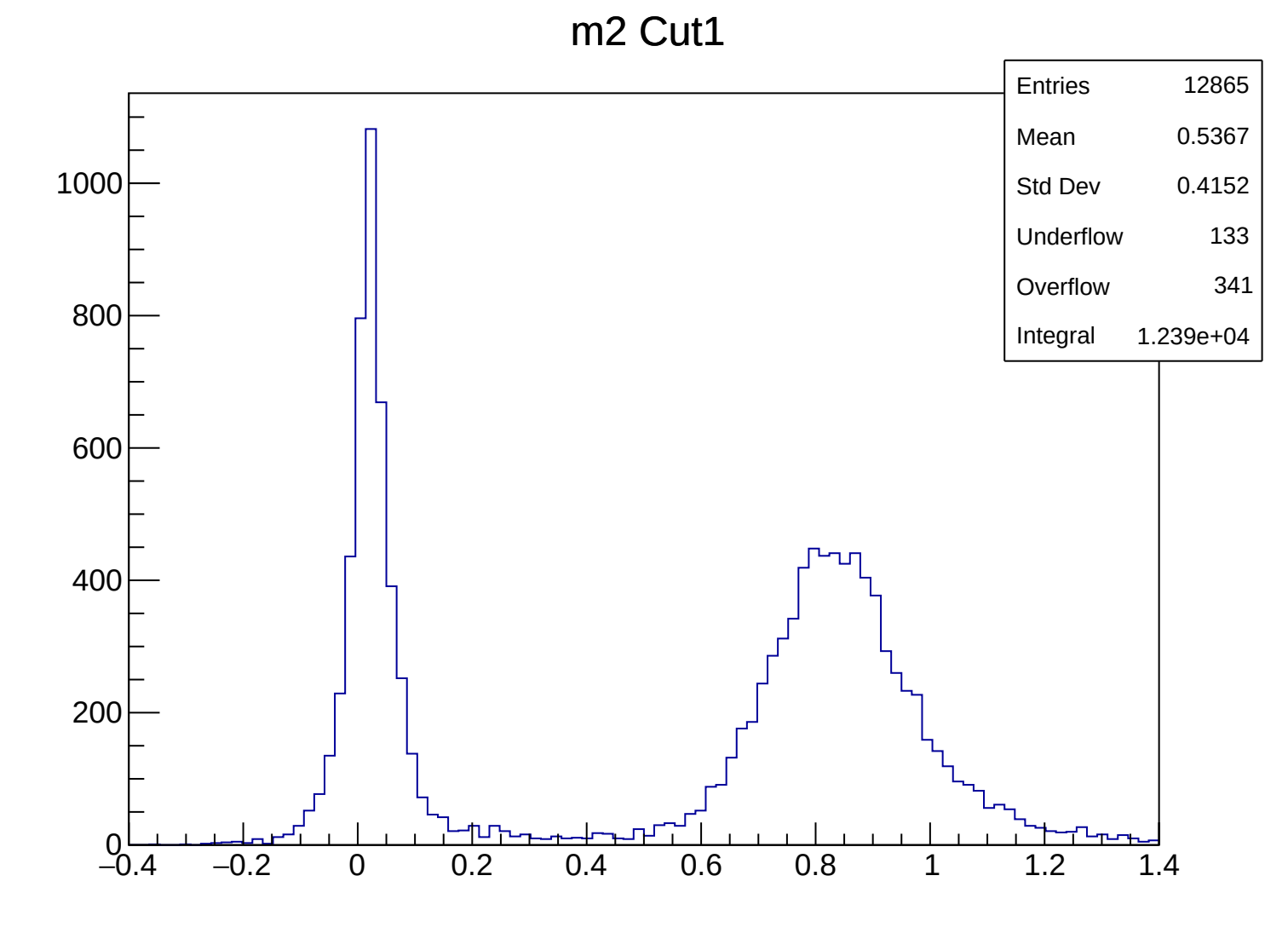

qKurama
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 139471
Mean −0.5997
Std Dev 0.8002
Underflow 3206
Overflow 0
Integral 1.363e+05

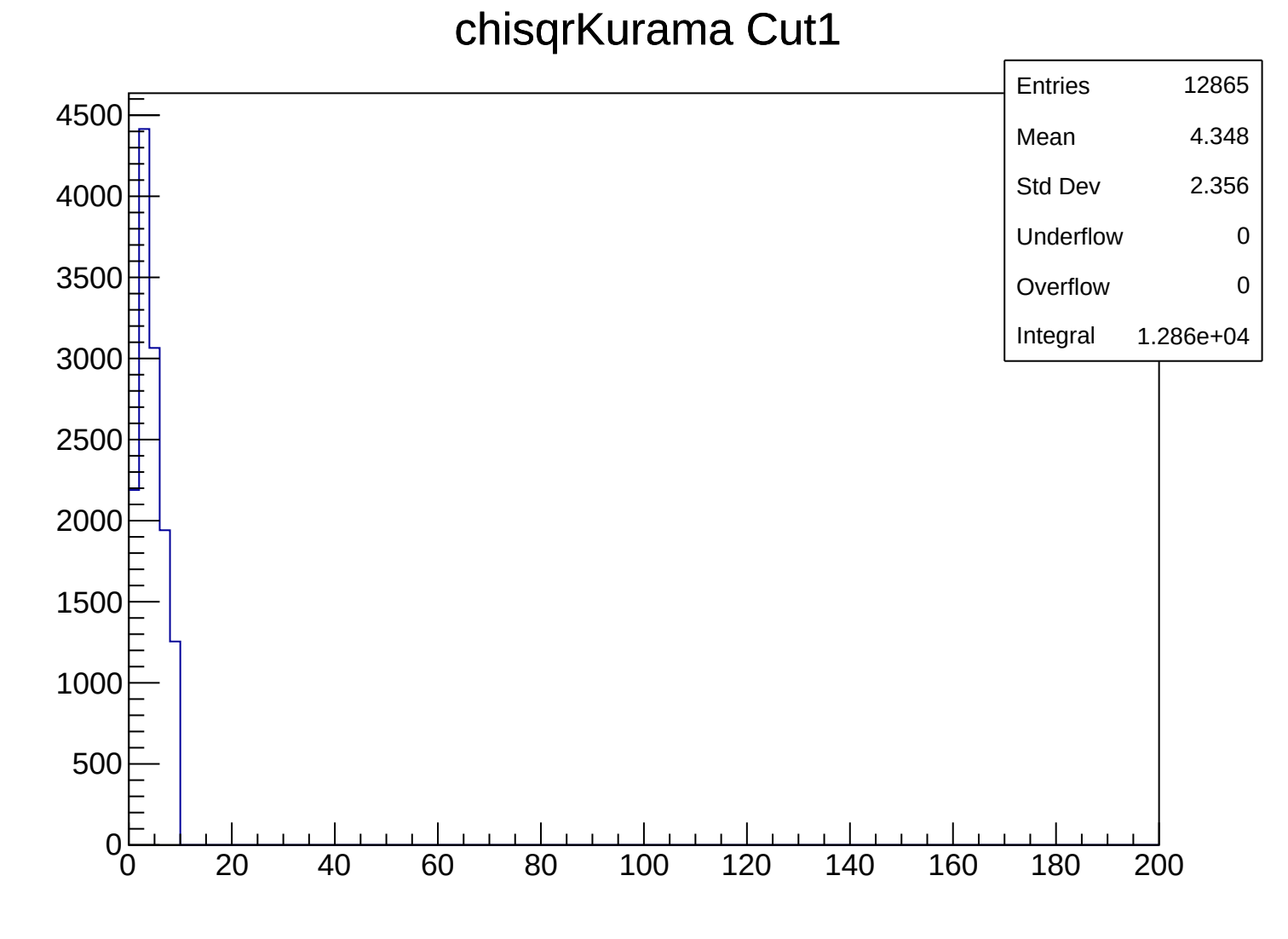

vpx[1]
Entries 139471
Mean –120.7
Std Dev 78.5
Underflow 3206
Overflow 0
Integral 1.363e+05
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

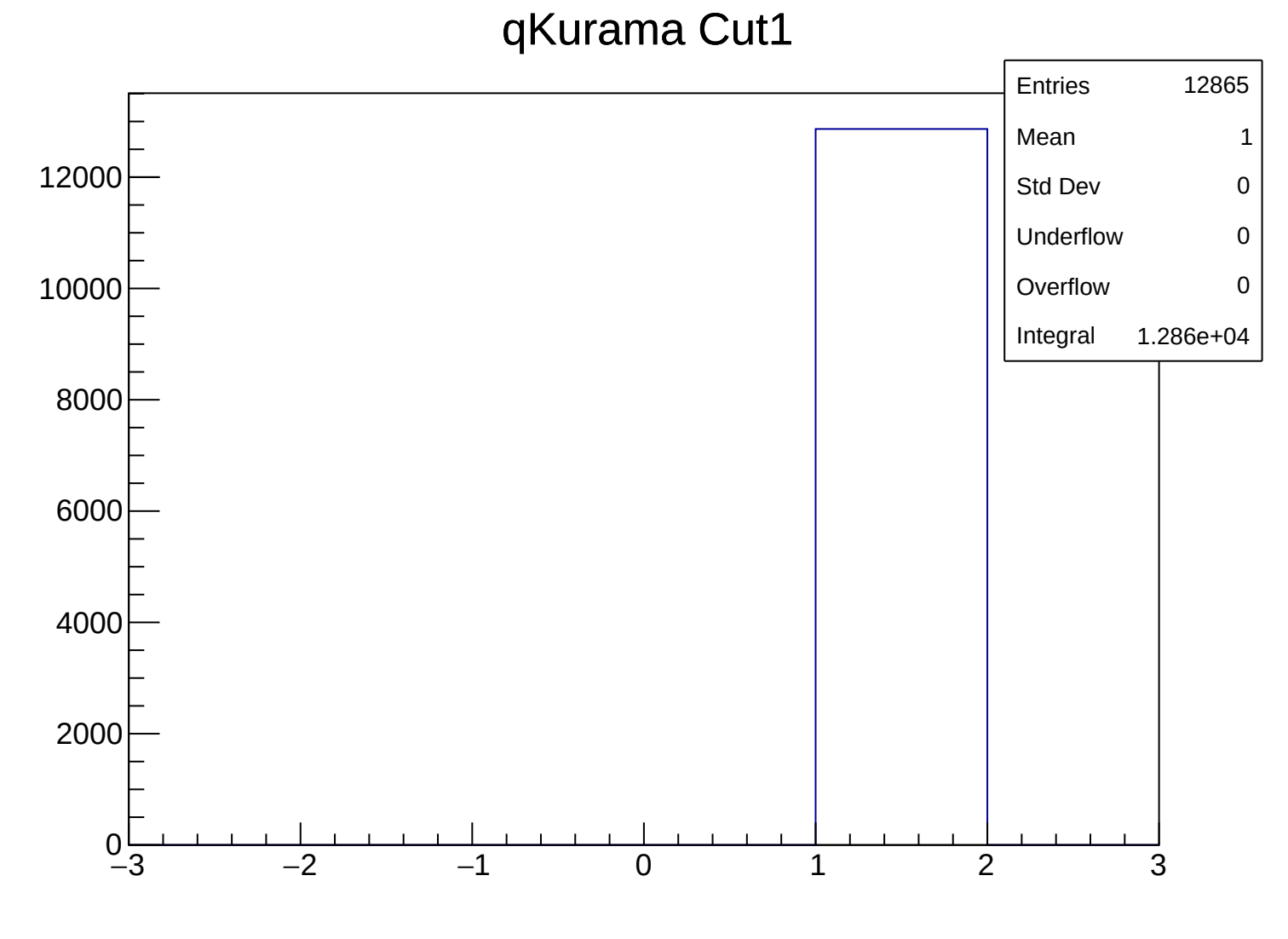

vpy[1]
Entries 139471
Mean −16.05
Std Dev 73.07
Underflow 3206
Overflow 0
Integral 1.363e+05
4000
3500
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

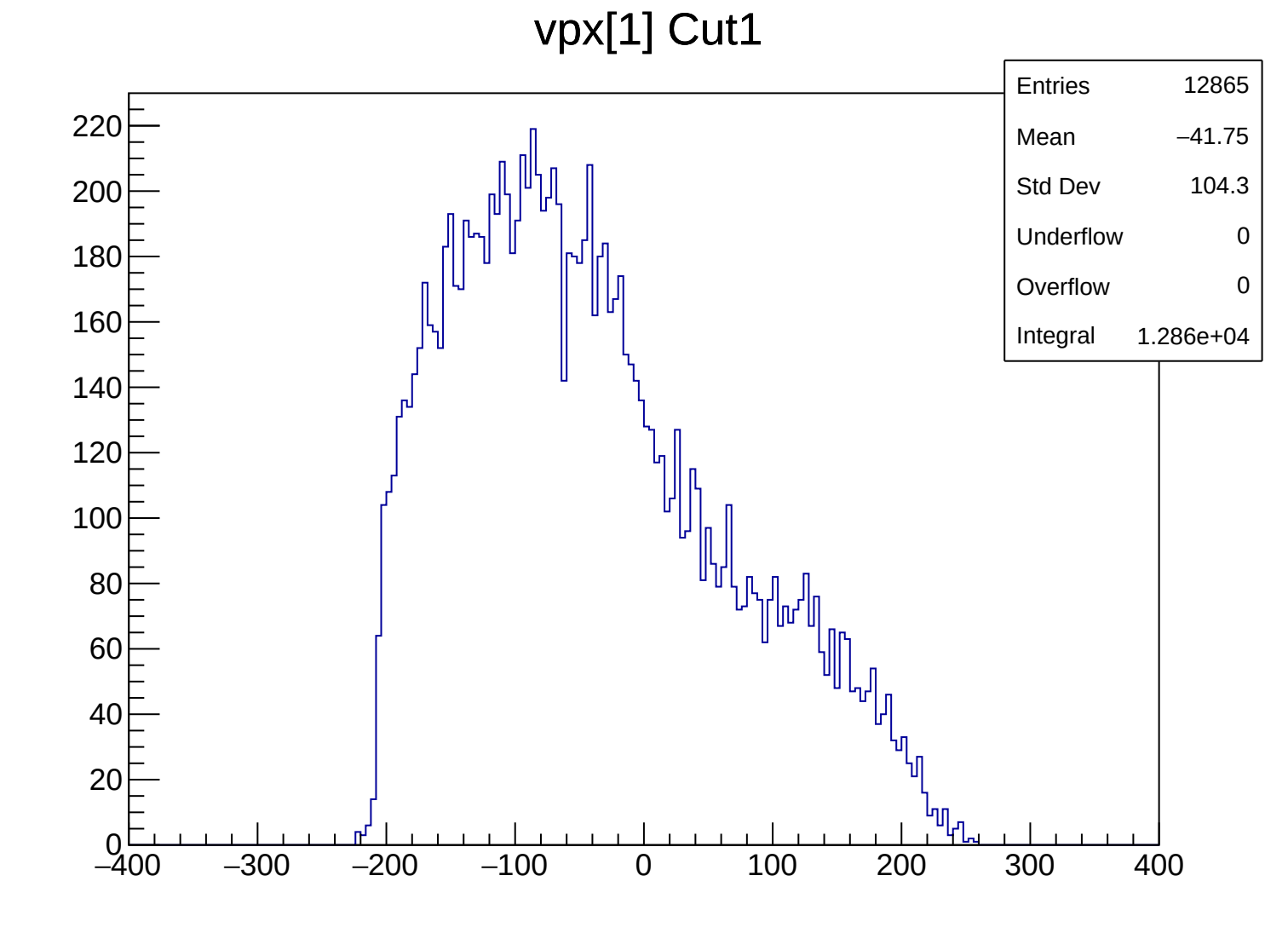

vpseg[1]
Entries 139471
Mean 19.29
Std Dev 7.479
Underflow 3206
Overflow 2
Integral 1.363e+05
14000
12000
10000
8000
6000
4000
2000
0
10
20
30
40
50
60

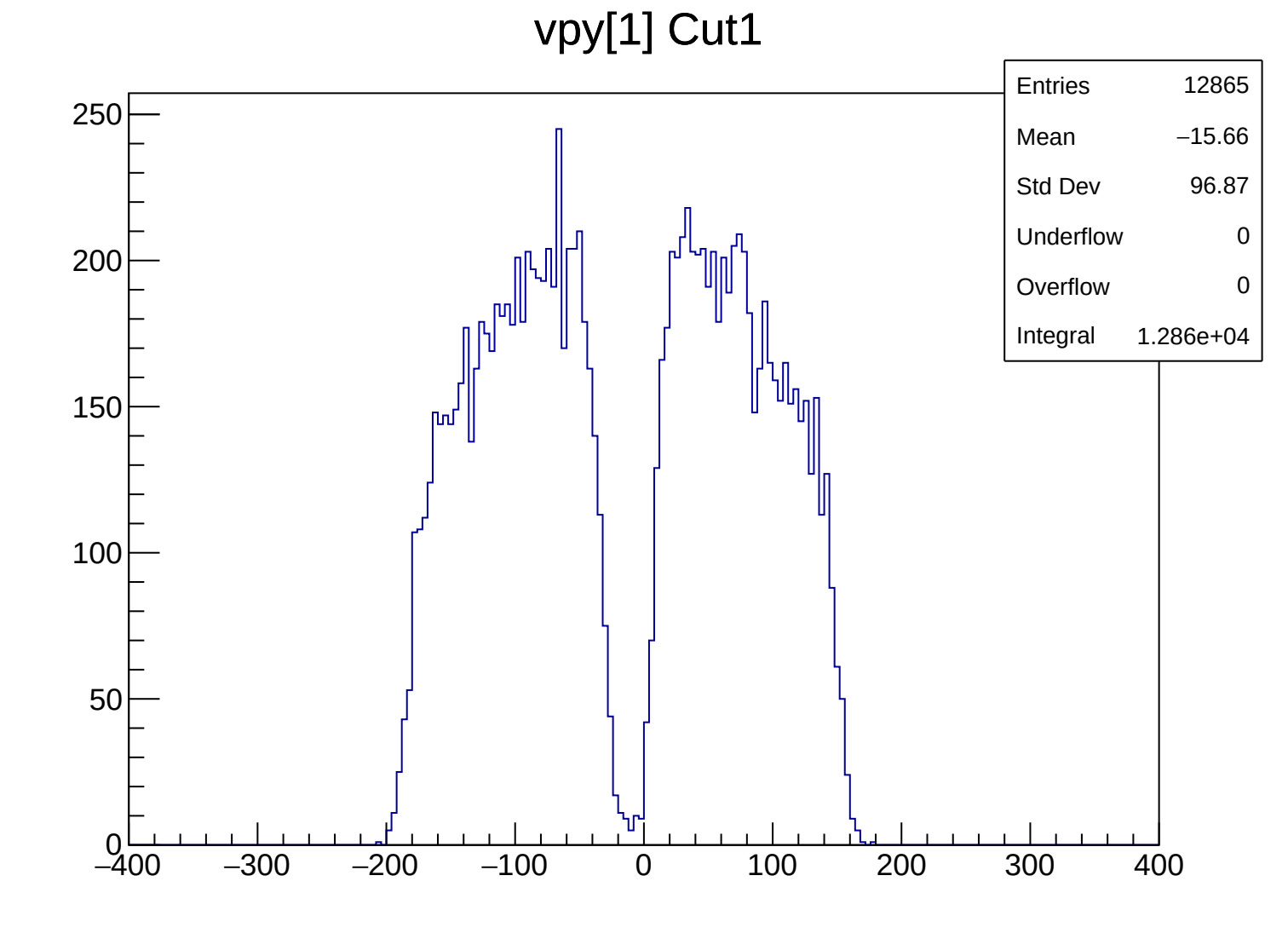

pKurama Cut1
Entries 12865
Mean 1.046
Std Dev 0.3432
Underflow 0
Overflow 1
Integral 1.286e+04
350
300
250
200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

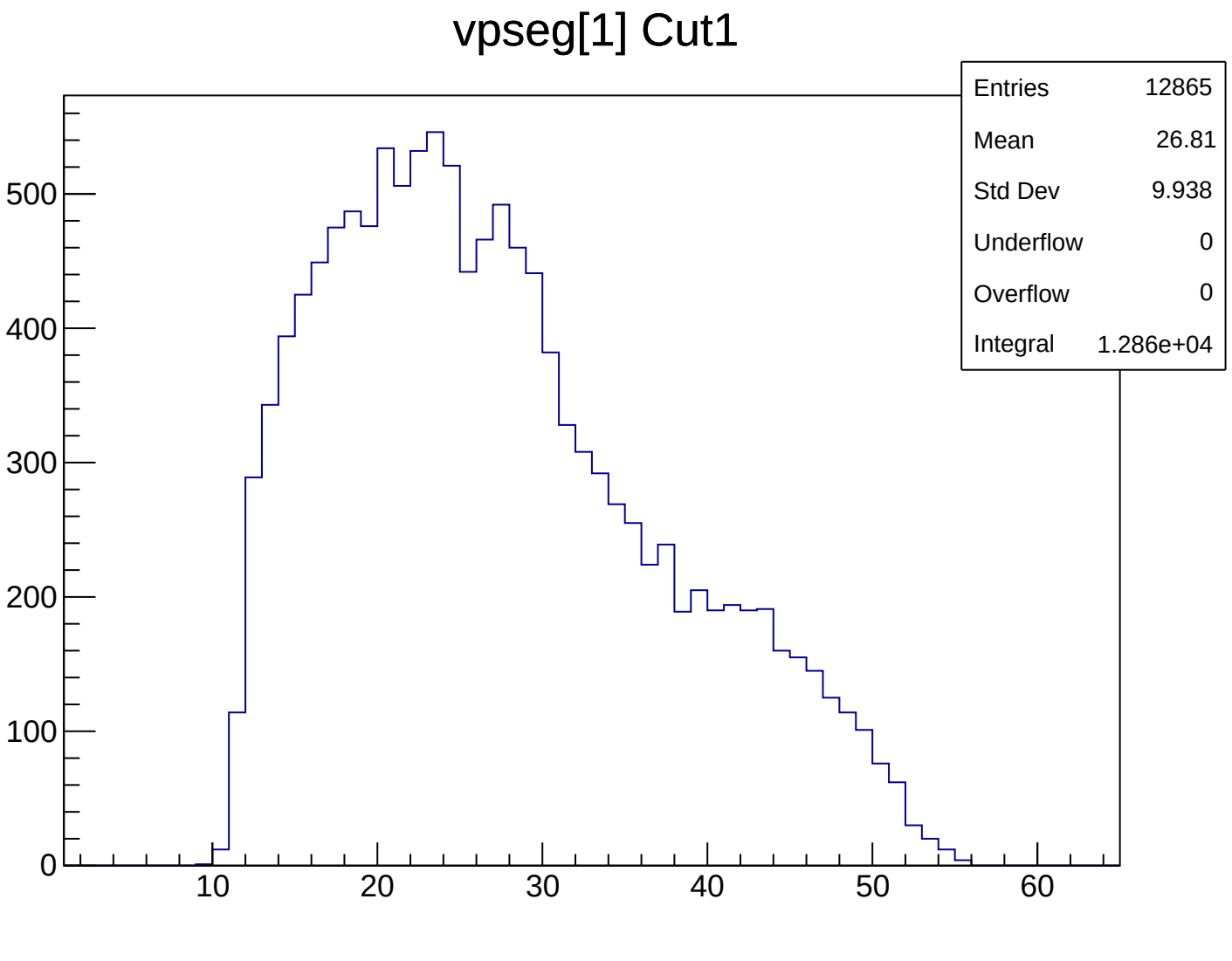

m2 Cut1
Entries 12865
Mean 0.5367
Std Dev 0.4152
Underflow 133
Overflow 341
Integral 1.239e+04
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

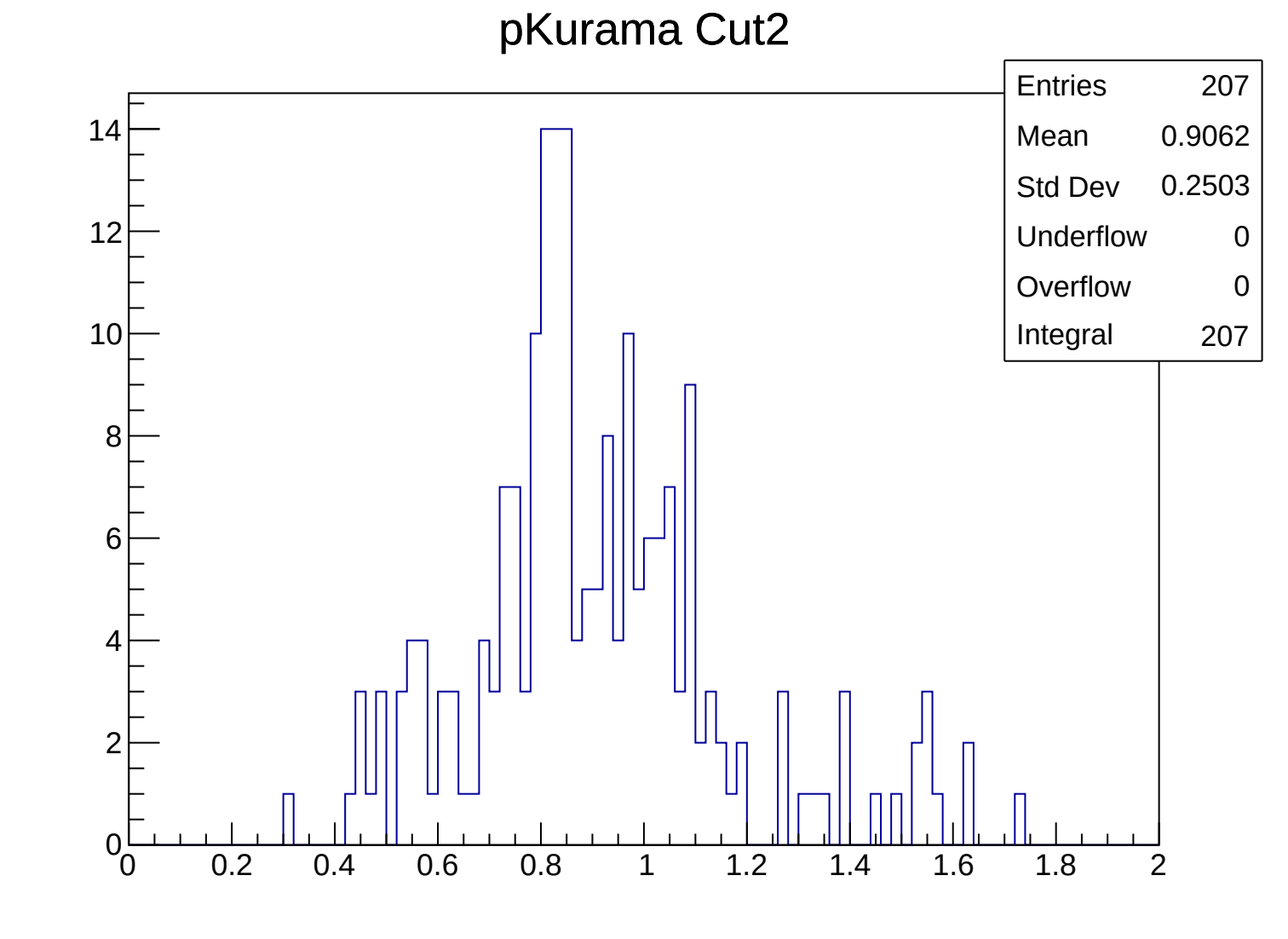

chisqrKurama Cut1
Entries 12865
Mean 4.348
Std Dev 2.356
Underflow 0
Overflow 0
Integral 1.286e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

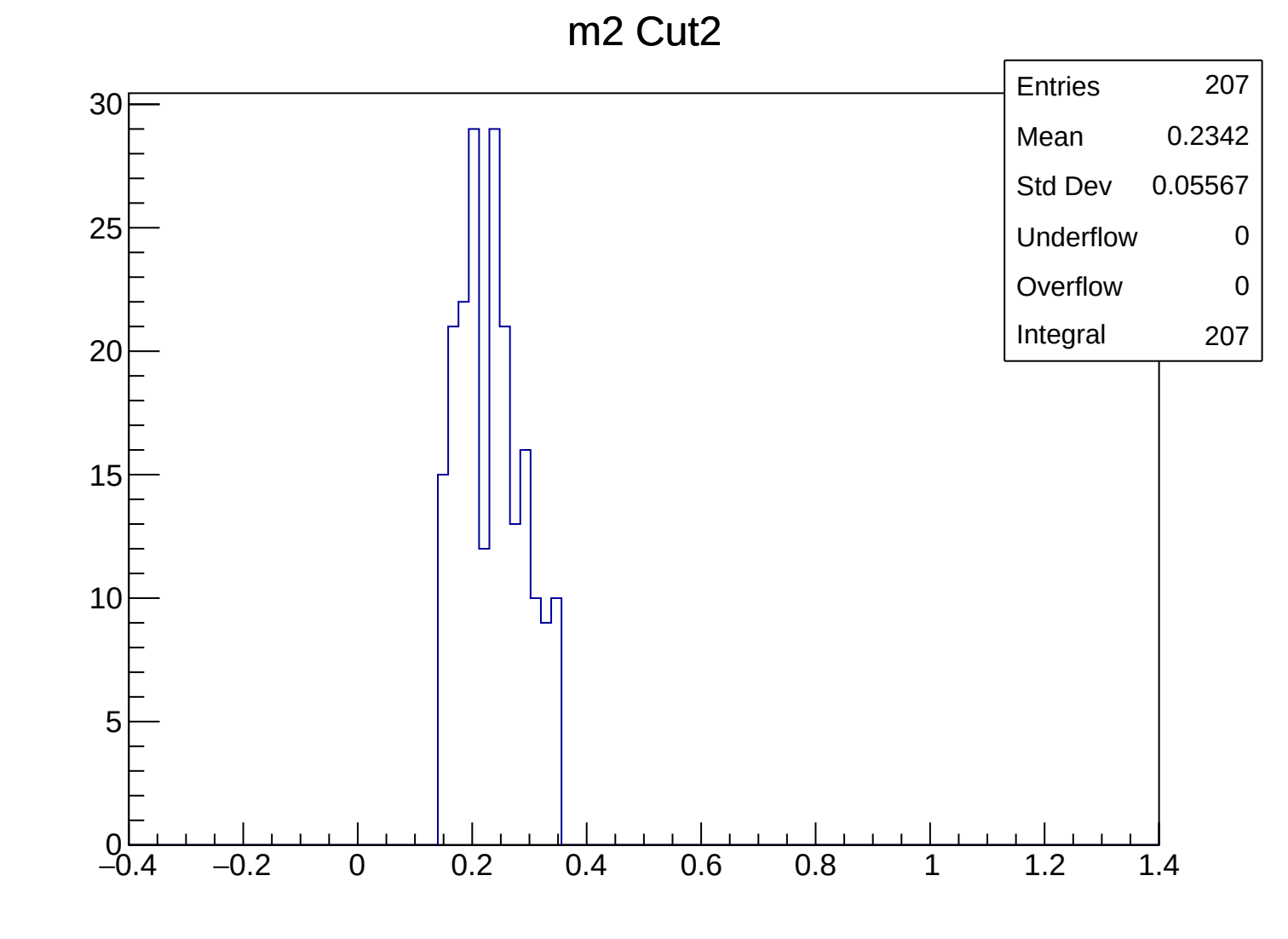

qKurama Cut1
Entries 12865
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.286e+04
12000
10000
8000
6000
4000
2000
0
−3
−2
−1
0
1
2
3

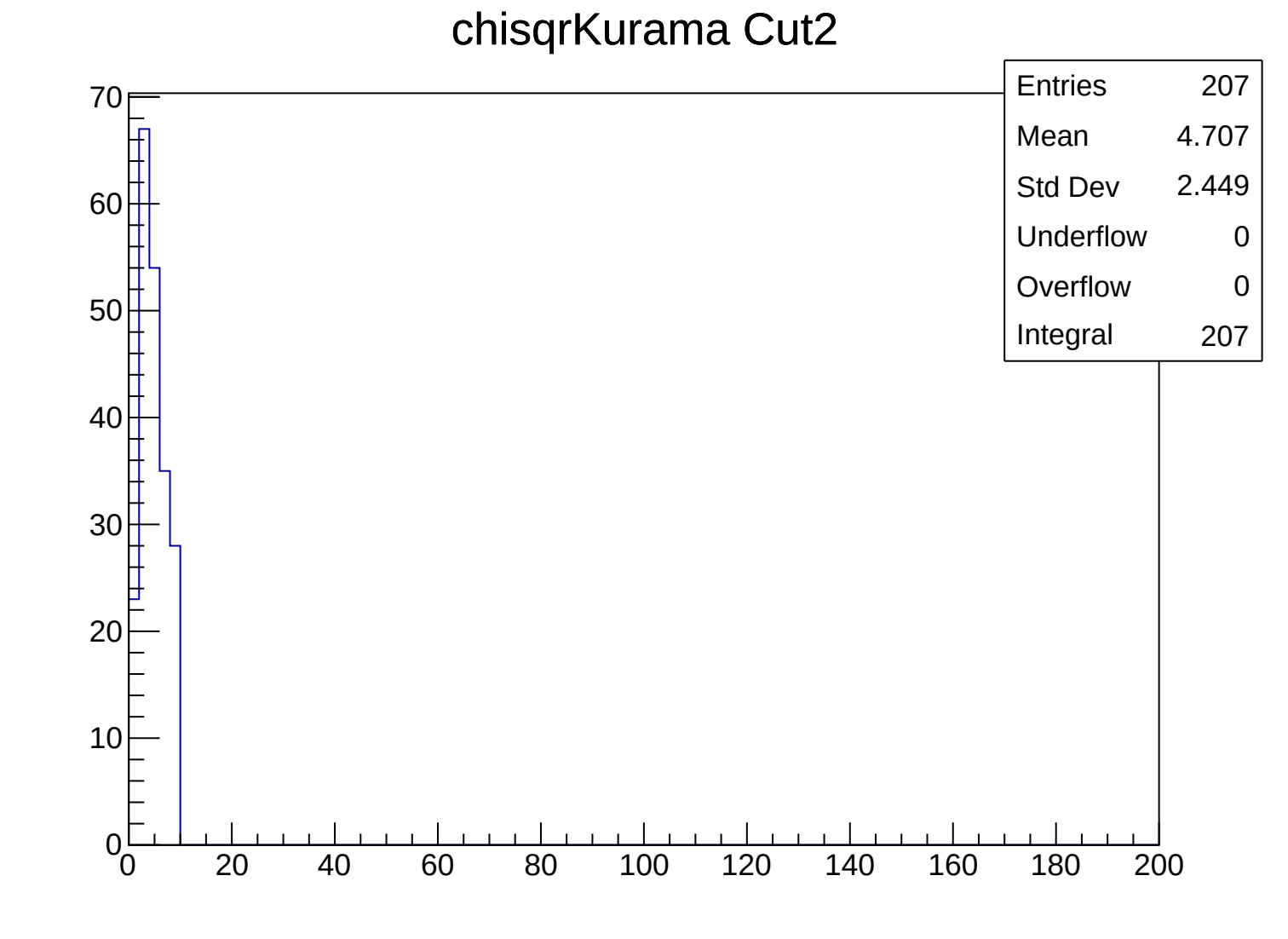

vpx[1] Cut1
Entries 12865
Mean –41.75
Std Dev 104.3
Underflow 0
Overflow 0
Integral 1.286e+04
220
200
180
160
140
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

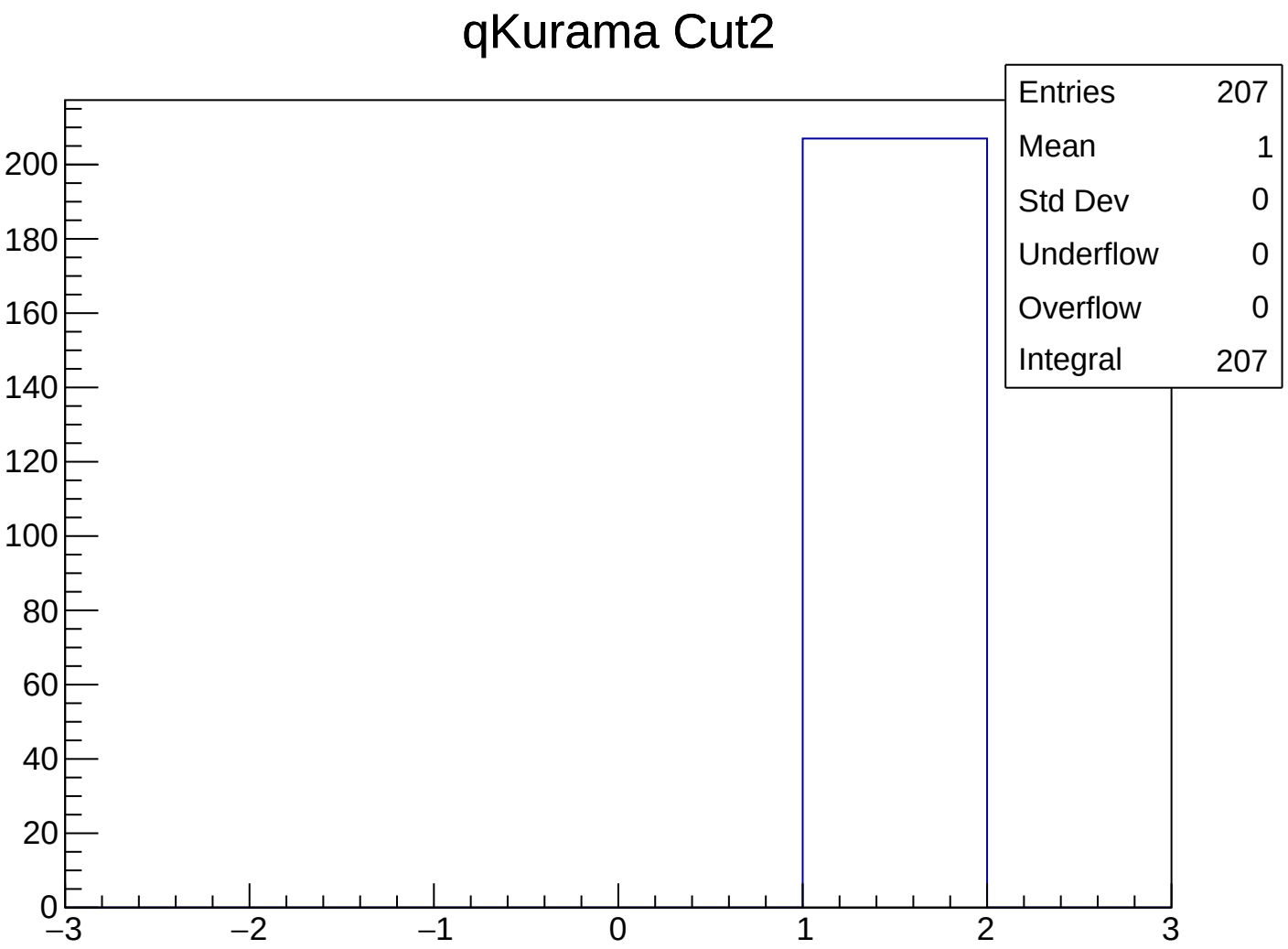

vpy[1] Cut1
Entries 12865
Mean –15.66
Std Dev 96.87
Underflow 0
Overflow 0
Integral 1.286e+04
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

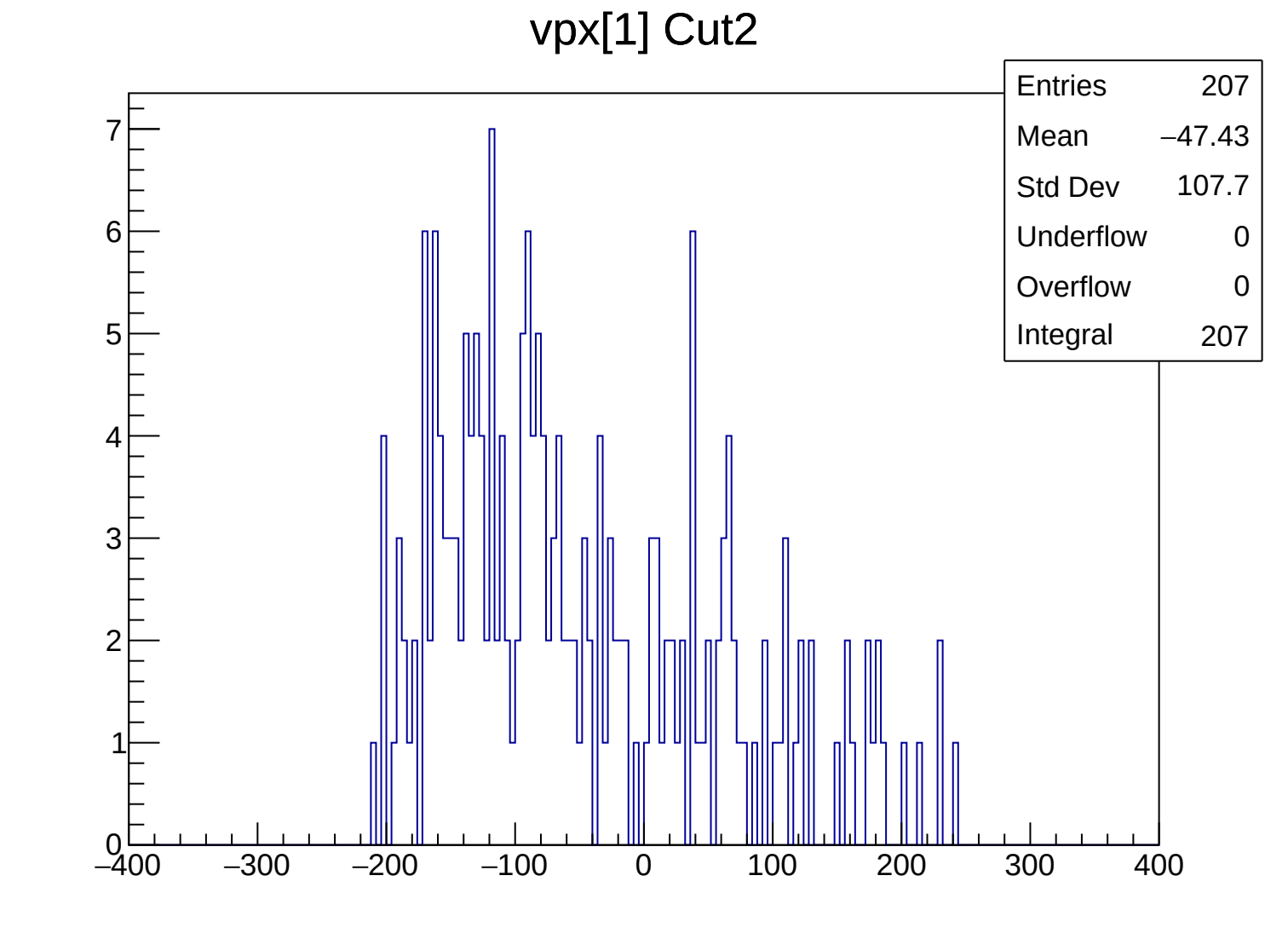

vpseg[1] Cut1
Entries 12865
Mean 26.81
Std Dev 9.938
Underflow 0
Overflow 0
Integral 1.286e+04
500
400
300
200
100
0
10
20
30
40
50
60

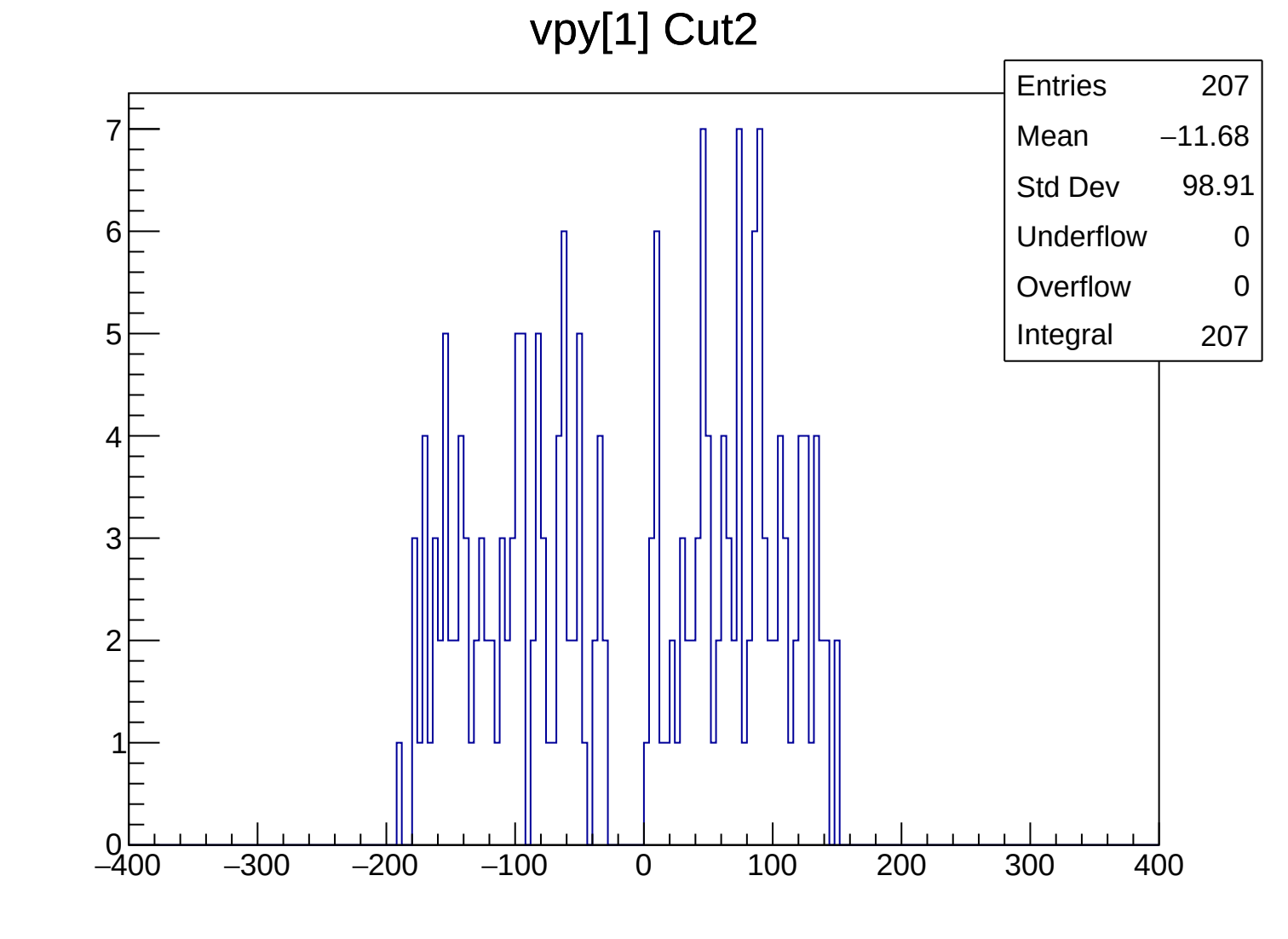

pKurama Cut2
Entries 207
Mean 0.9062
Std Dev 0.2503
Underflow 0
Overflow 0
Integral 207
0
2
4
6
8
10
12
14
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

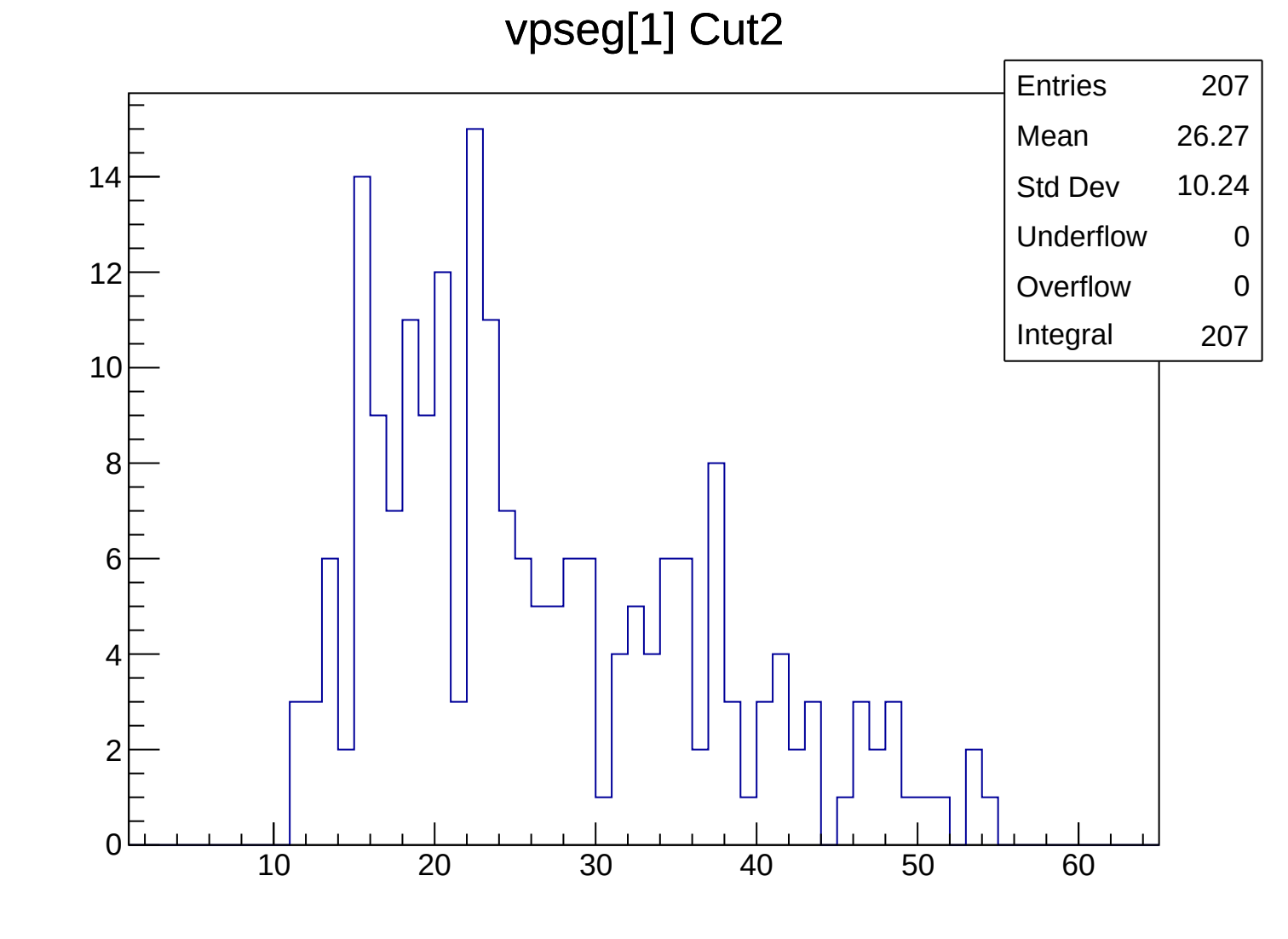

m2 Cut2
Entries 207
Mean 0.2342
Std Dev 0.05567
Underflow 0
Overflow 0
Integral 207
30
25
20
15
10
5
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


chisqrKurama Cut2
Entries 207
Mean 4.707
Std Dev 2.449
Underflow 0
Overflow 0
Integral 207
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
140
160
180
200


qKurama Cut2
Entries 207
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 207
200
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3


vpx[1] Cut2
Entries 207
Mean –47.43
Std Dev 107.7
Underflow 0
Overflow 0
Integral 207
0
1
2
3
4
5
6
7
–400
–300
–200
–100
0
100
200
300
400


vpy[1] Cut2
Entries 207
Mean −11.68
Std Dev 98.91
Underflow 0
Overflow 0
Integral 207
0
1
2
3
4
5
6
7
−400
−300
−200
−100
0
100
200
300
400


vpseg[1] Cut2
Entries 207
Mean 26.27
Std Dev 10.24
Underflow 0
Overflow 0
Integral 207
0
2
4
6
8
10
12
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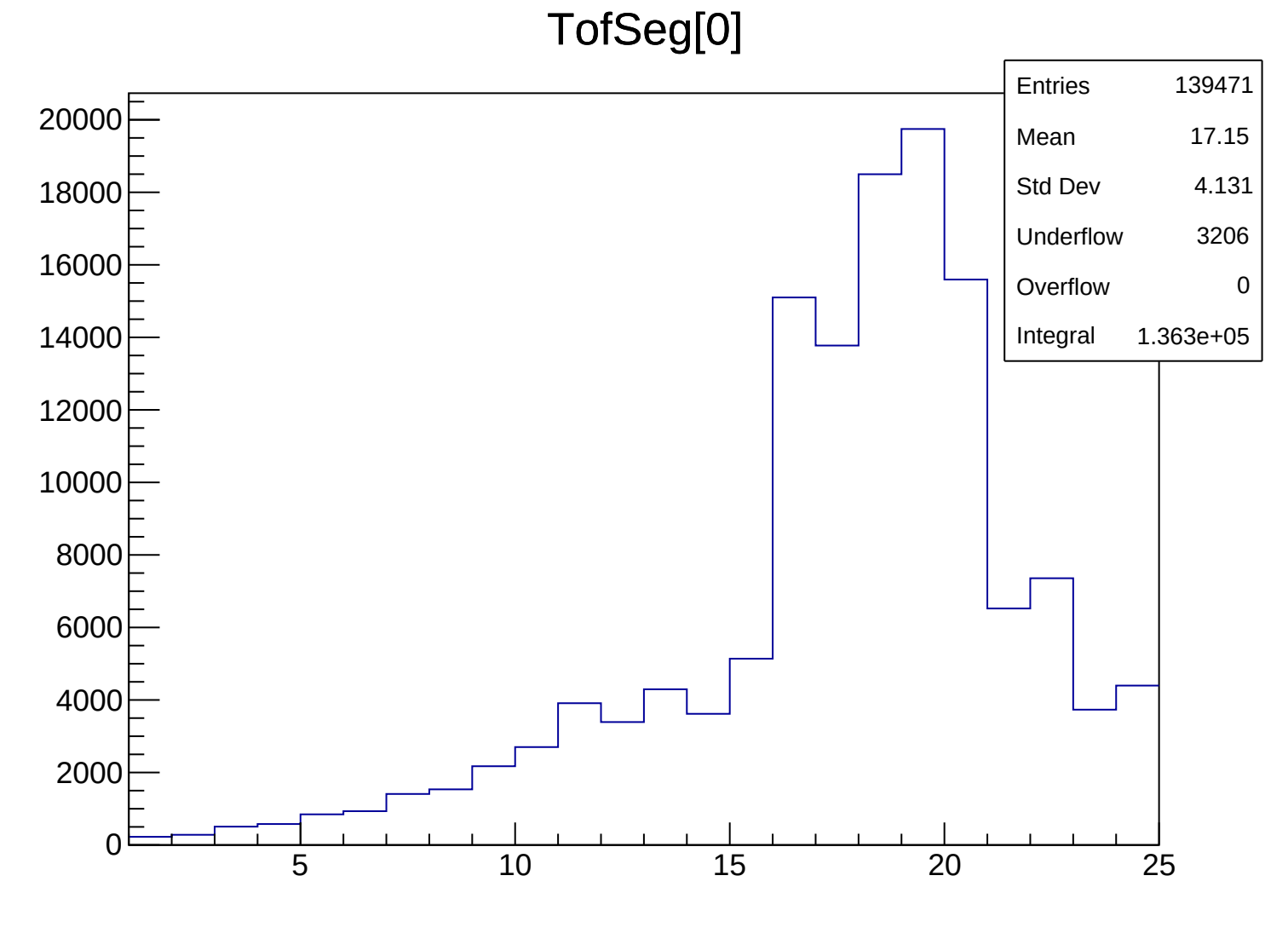
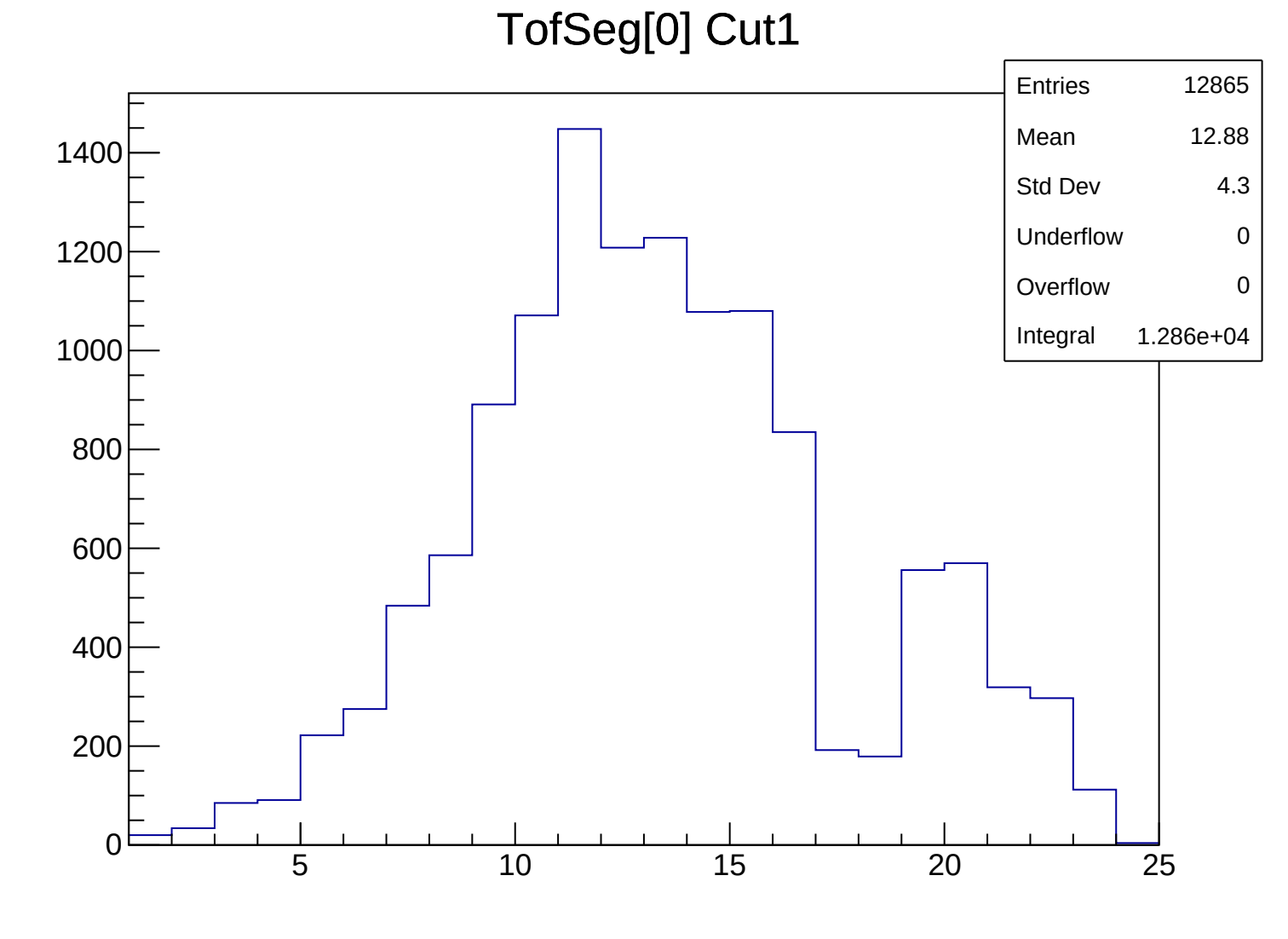
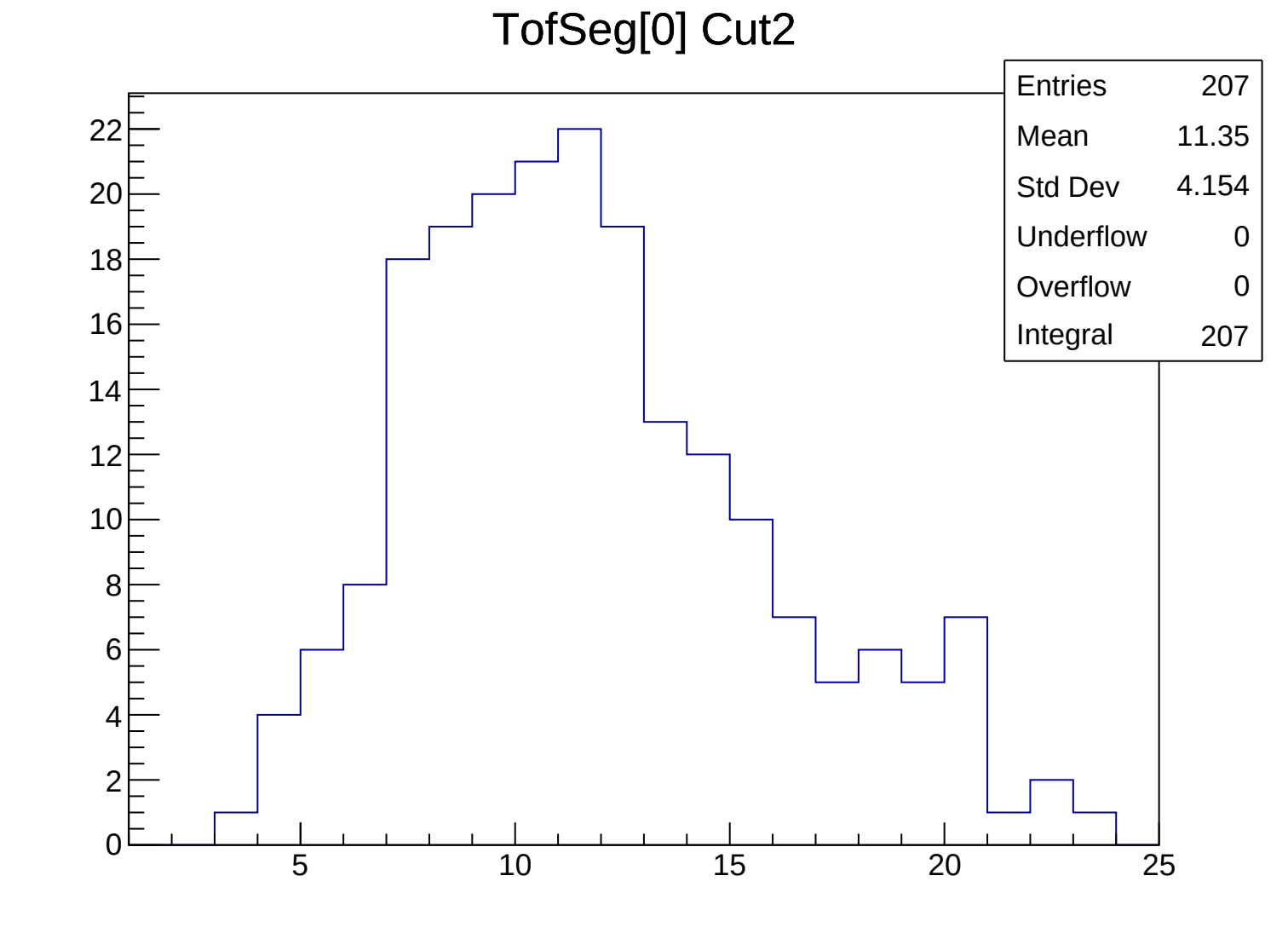
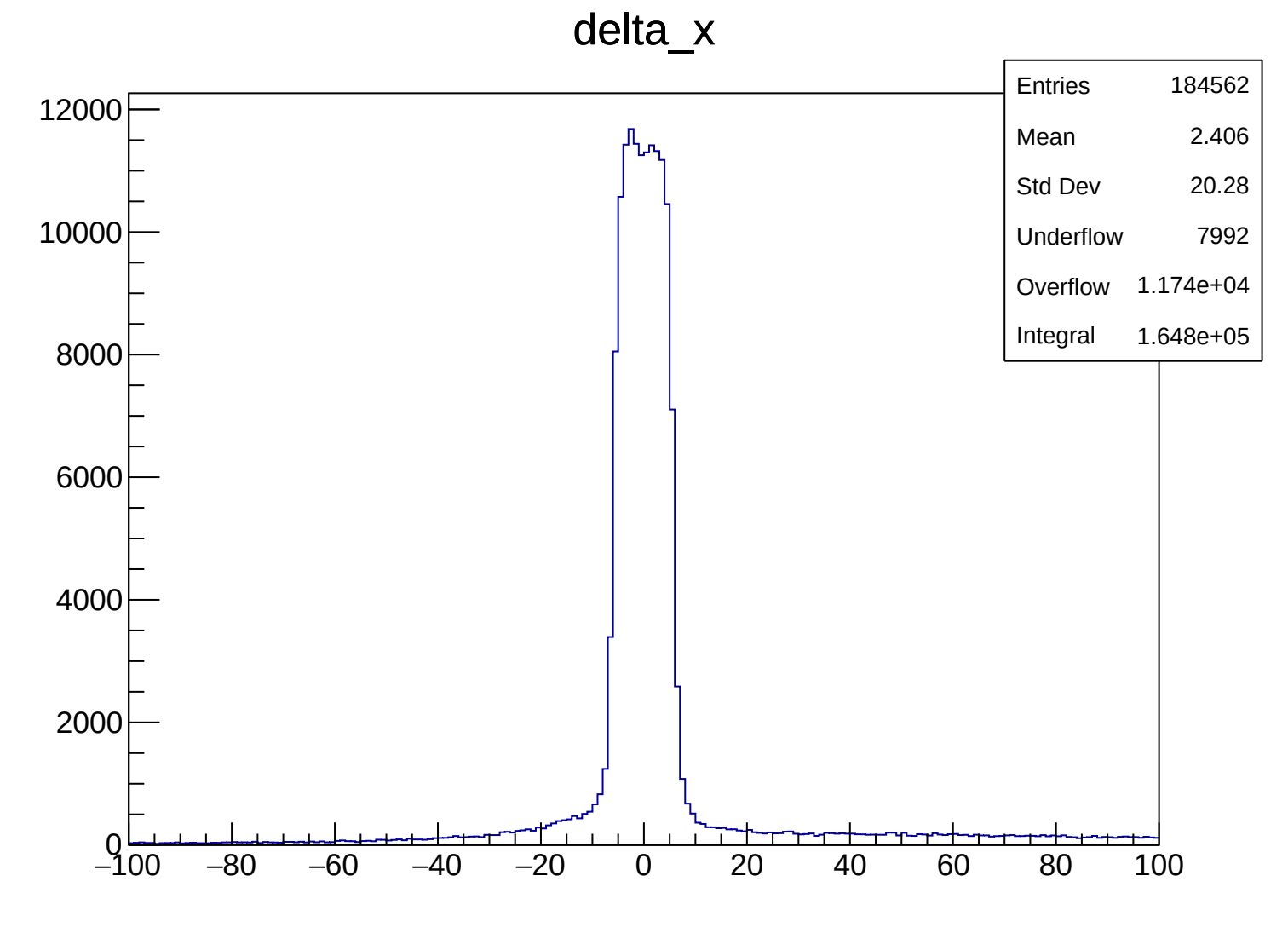
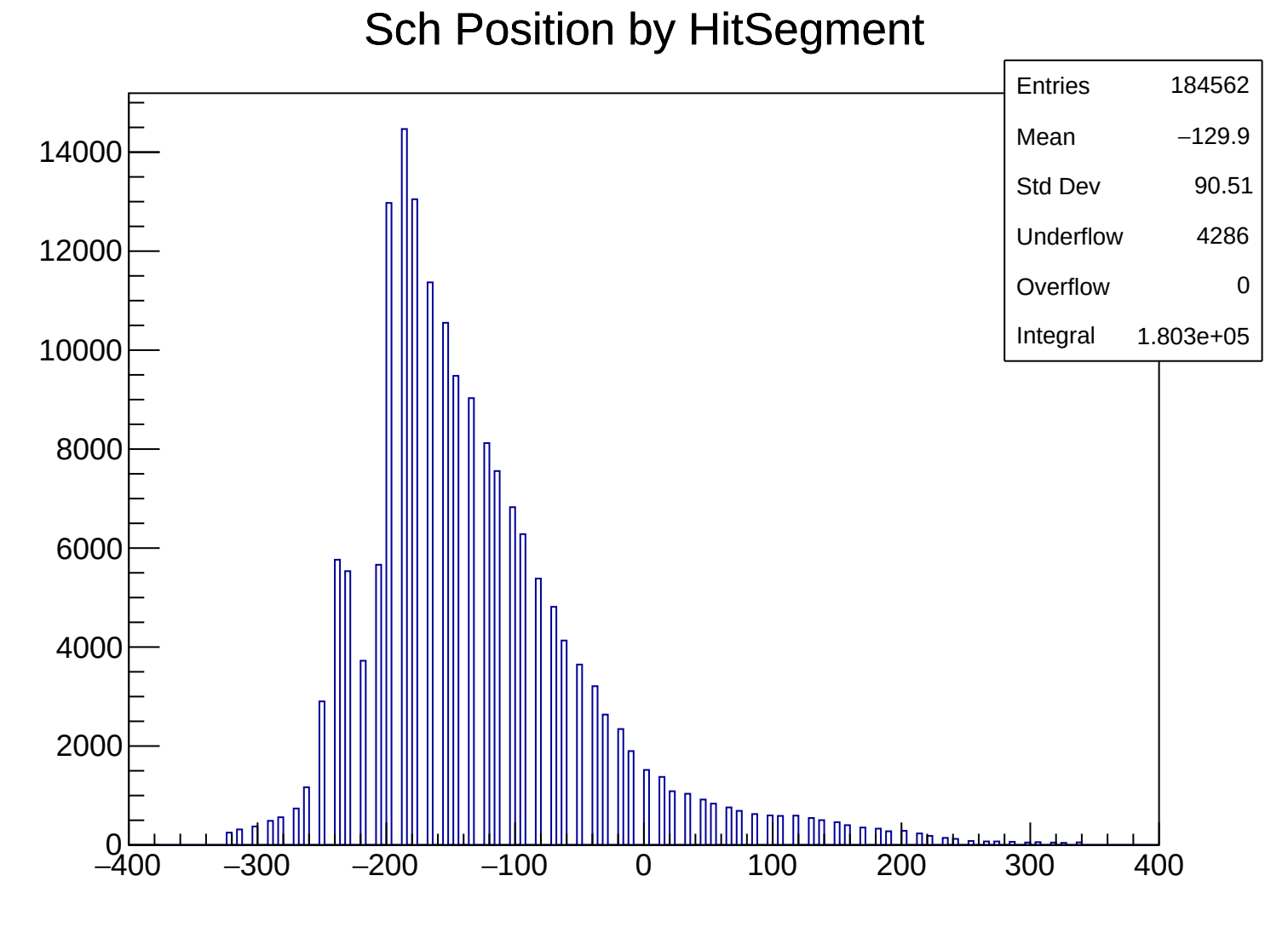
10
20
30
40
50
60

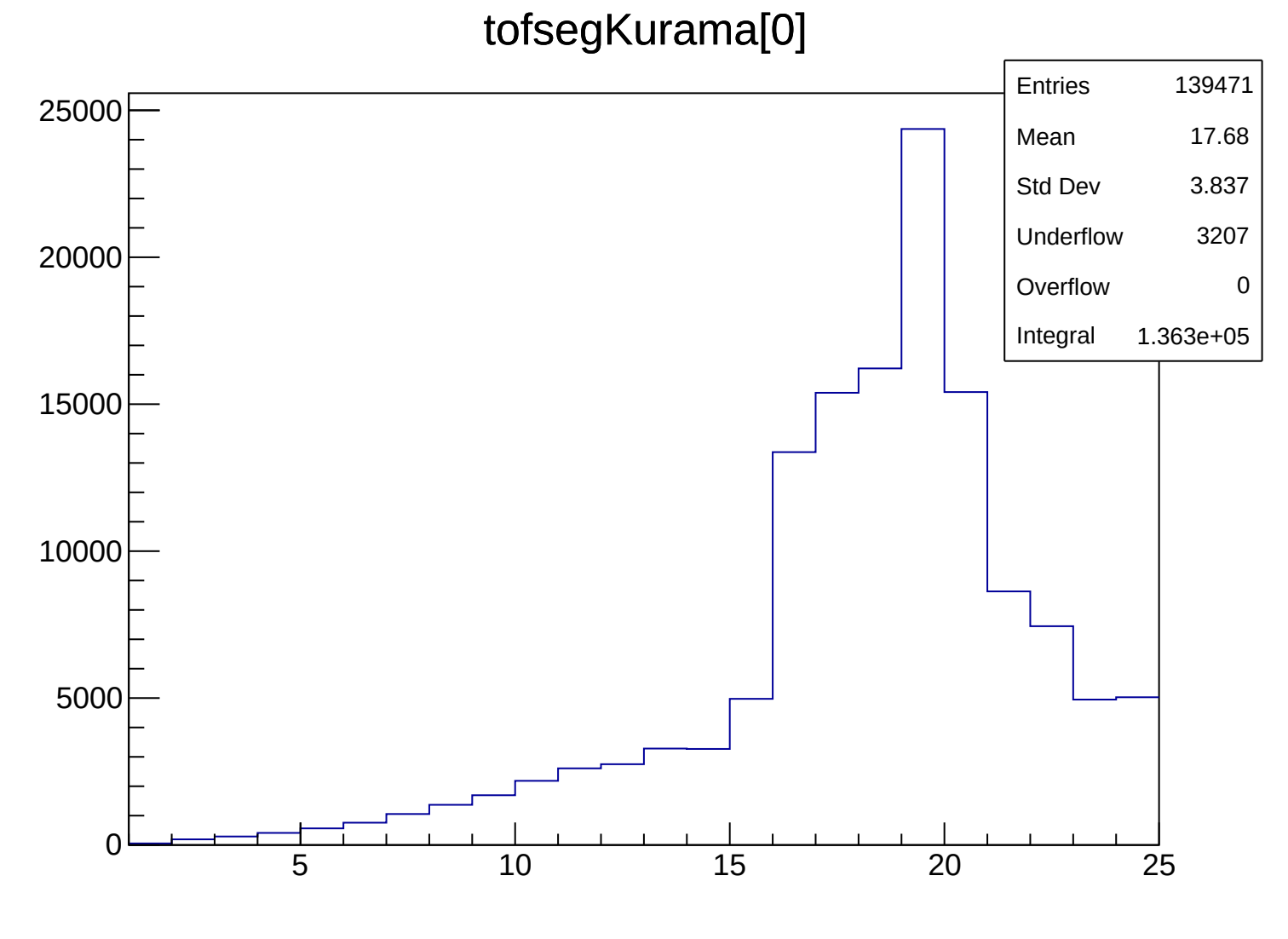

TofSeg[0]
Entries 139471
Mean 17.15
Std Dev 4.131
Underflow 3206
Overflow 0
Integral 1.363e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

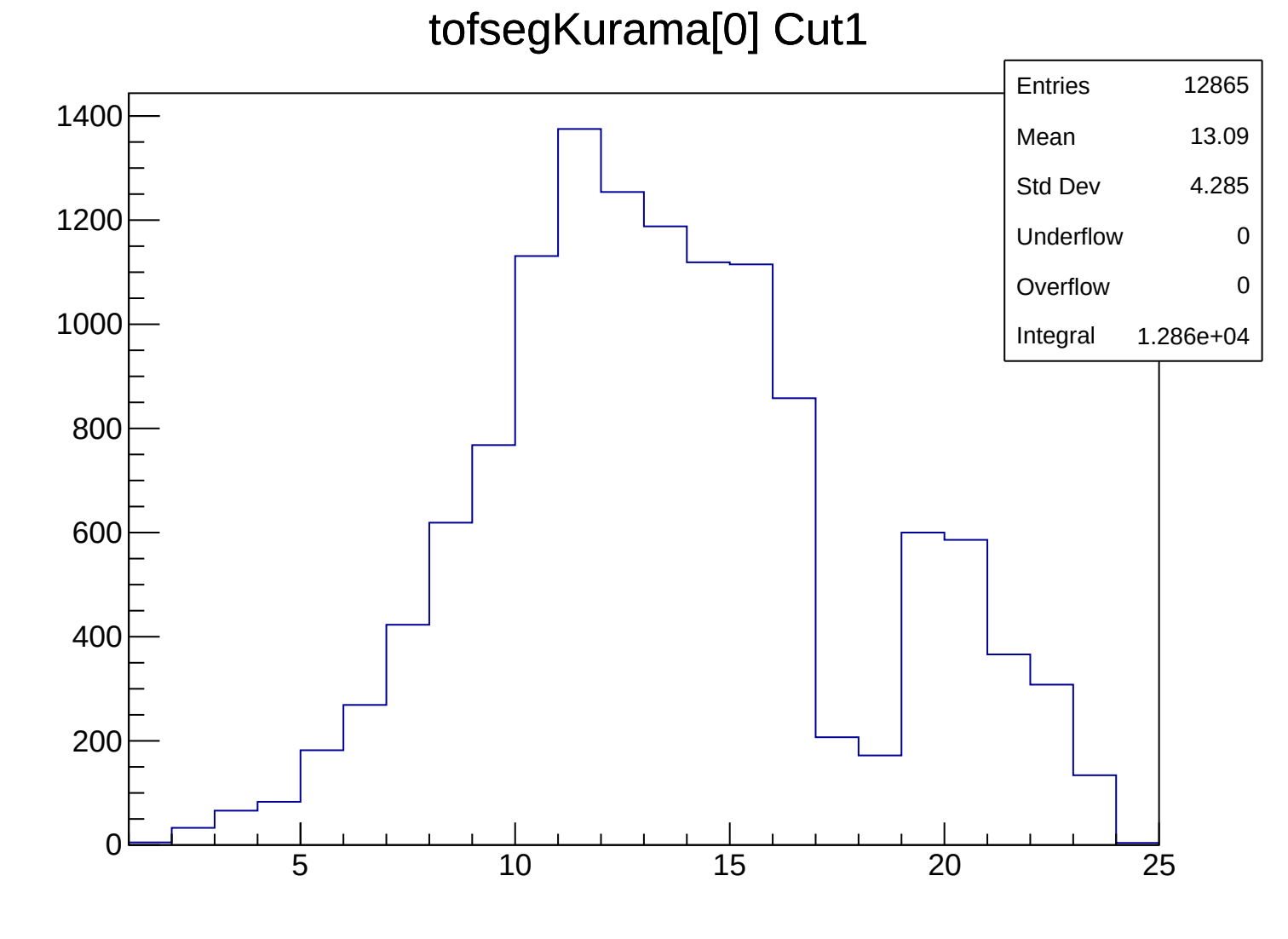

TofSeg[0] Cut1
Entries 12865
Mean 12.88
Std Dev 4.3
Underflow 0
Overflow 0
Integral 1.286e+04
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

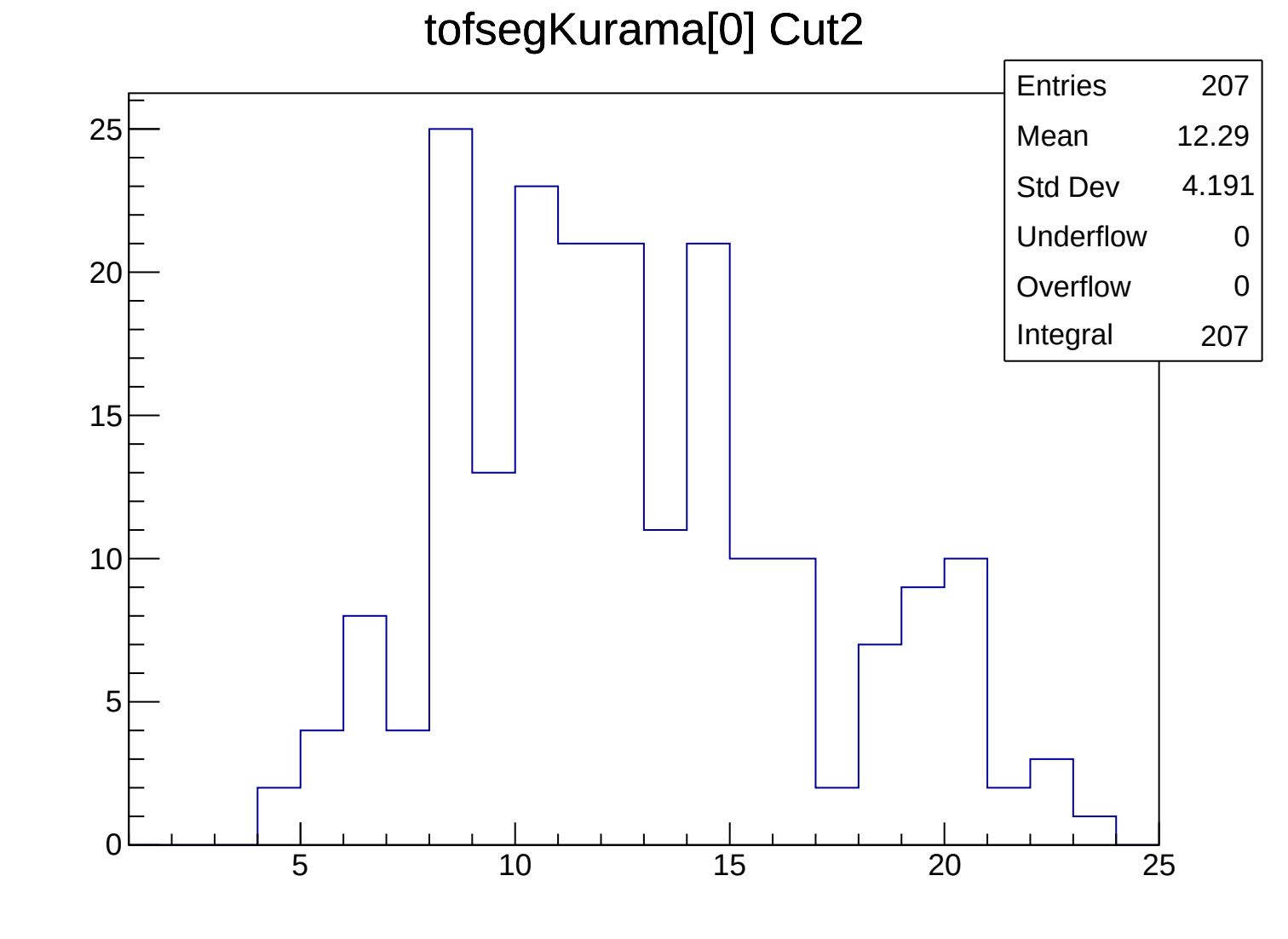

TofSeg[0] Cut2
Entries 207
Mean 11.35
Std Dev 4.154
Underflow 0
Overflow 0
Integral 207
0
2
4
6
8
10
12
14
16
18
20
22
5
10
15
20
25

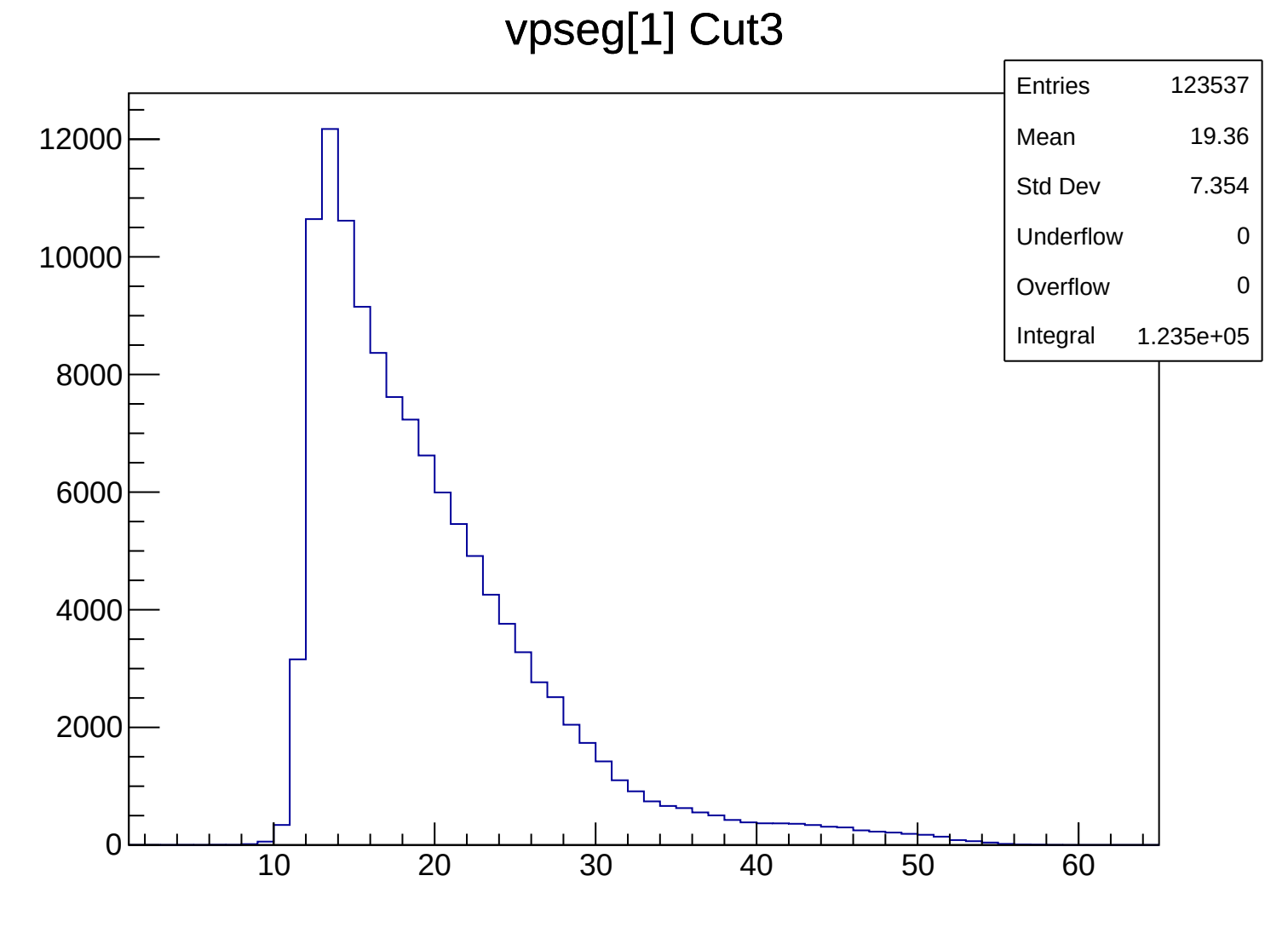

delta_x
Entries 184562
Mean 2.406
Std Dev 20.28
Underflow 7992
Overflow 1.174e+04
Integral 1.648e+05
12000
10000
8000
6000
4000
2000
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

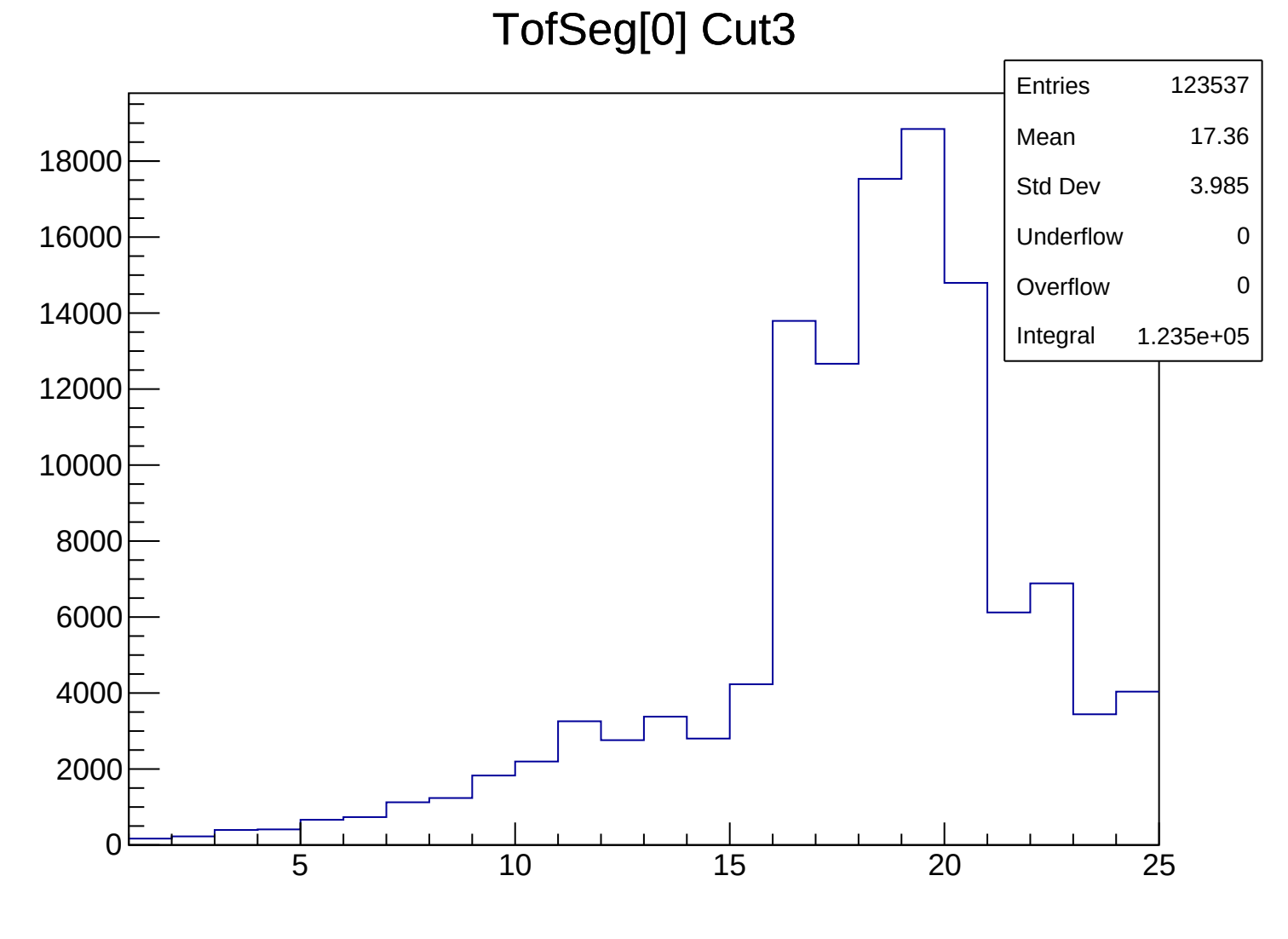

Sch Position by HitSegment
Entries 184562
Mean −129.9
Std Dev 90.51
Underflow 4286
Overflow 0
Integral 1.803e+05
14000
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

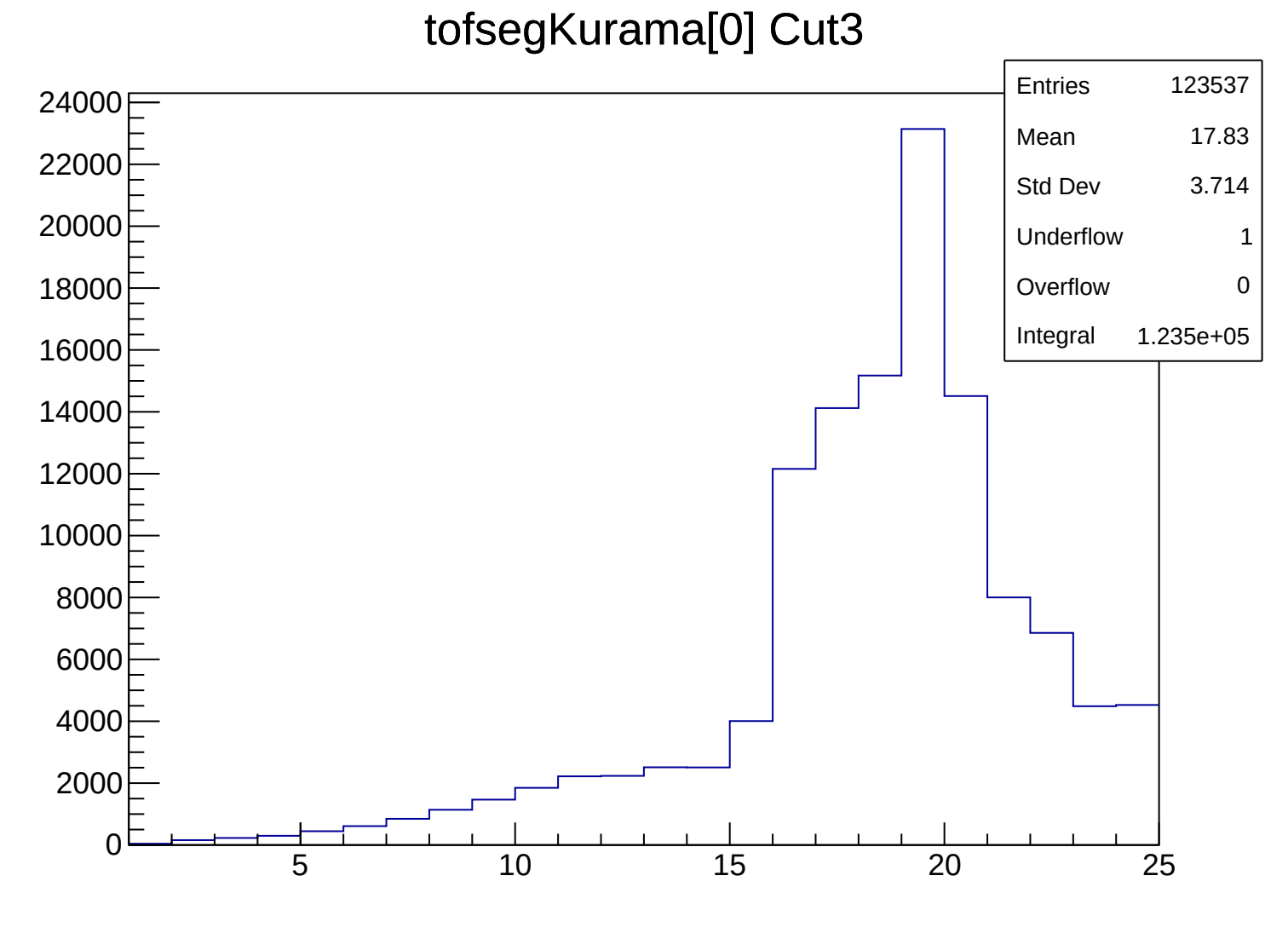

tofsegKurama[0]
Entries 139471
Mean 17.68
Std Dev 3.837
Underflow 3207
Overflow 0
Integral 1.363e+05
25000
20000
15000
10000
5000
0
5
10
15
20
25

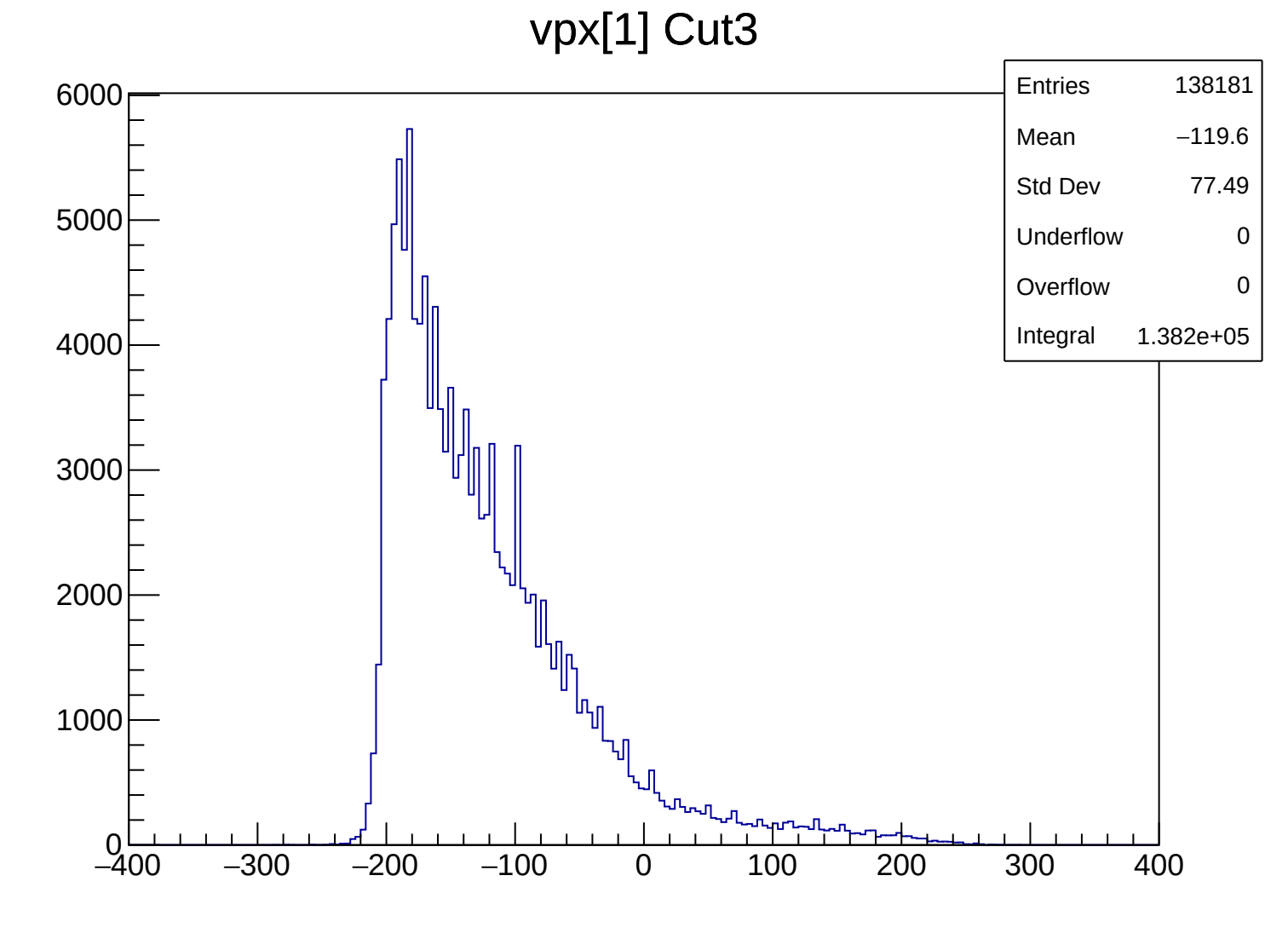

tofsegKurama[0] Cut1
Entries 12865
Mean 13.09
Std Dev 4.285
Underflow 0
Overflow 0
Integral 1.286e+04
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

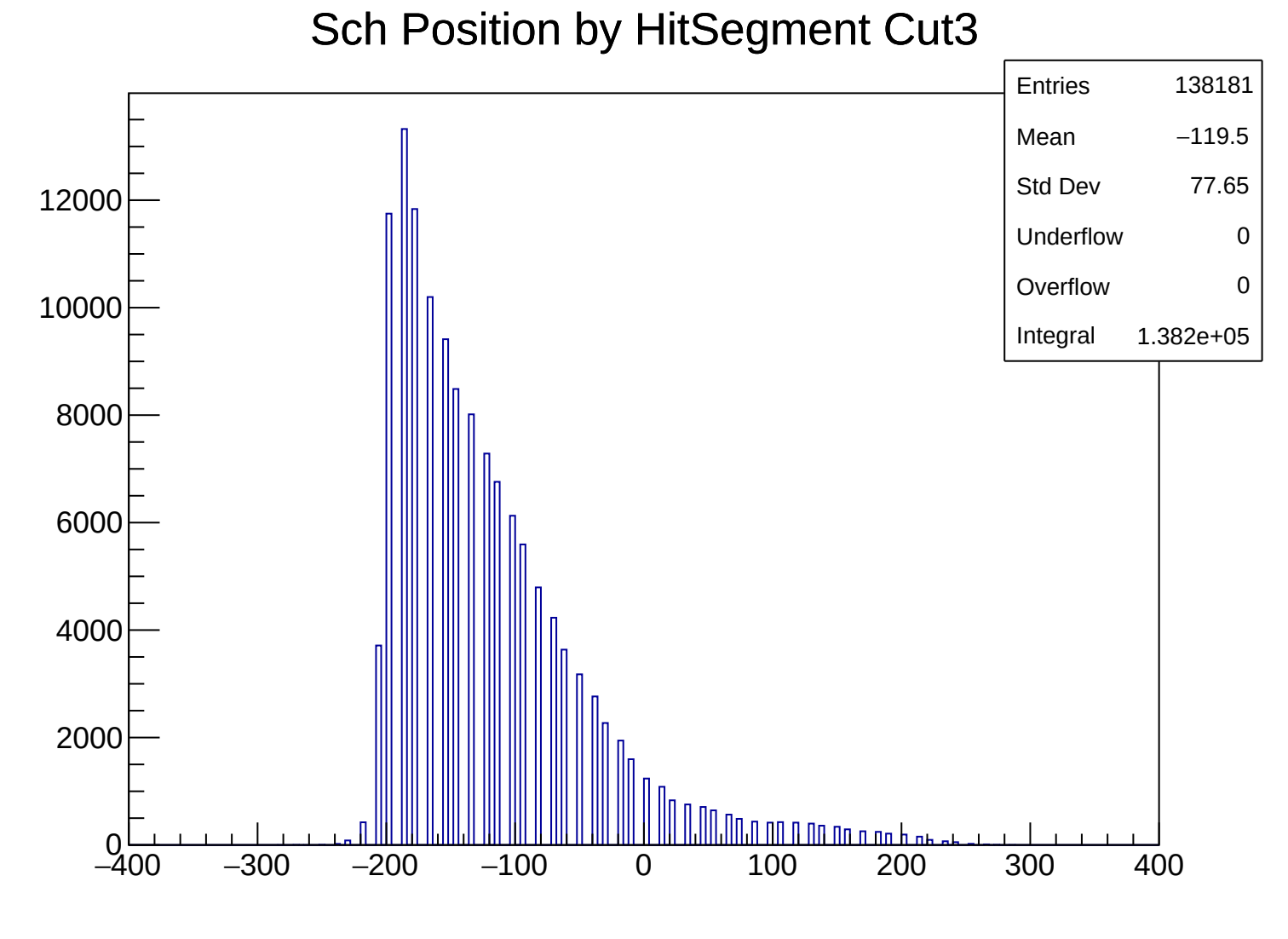

tofsegKurama[0] Cut2
Entries 207
Mean 12.29
Std Dev 4.191
Underflow 0
Overflow 0
Integral 207
25
20
15
10
5
0
5
10
15
20
25

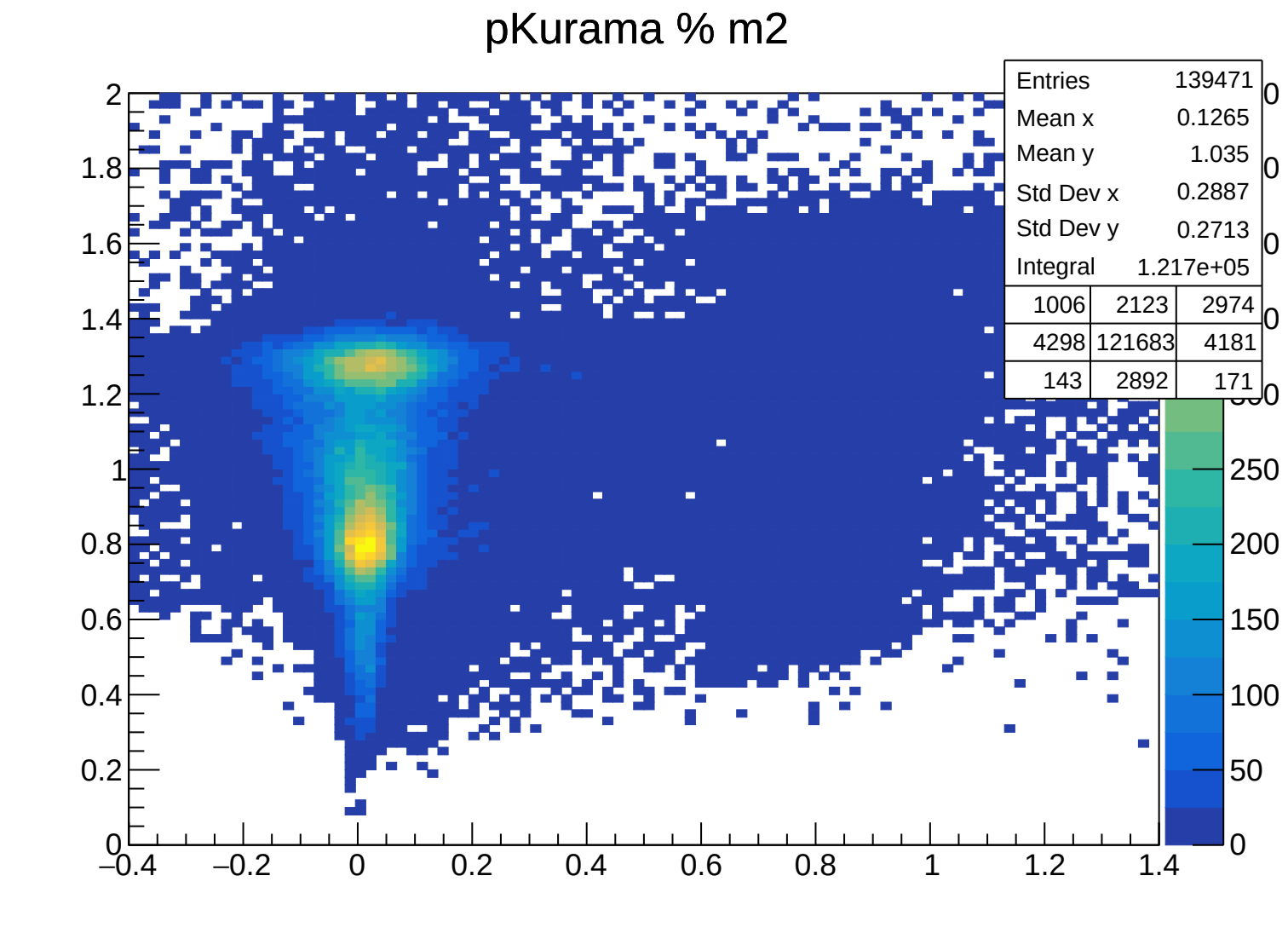

vpseg[1] Cut3
Entries 123537
Mean 19.36
Std Dev 7.354
Underflow 0
Overflow 0
Integral 1.235e+05
12000
10000
8000
6000
4000
2000
0
10
20
30
40
50
60

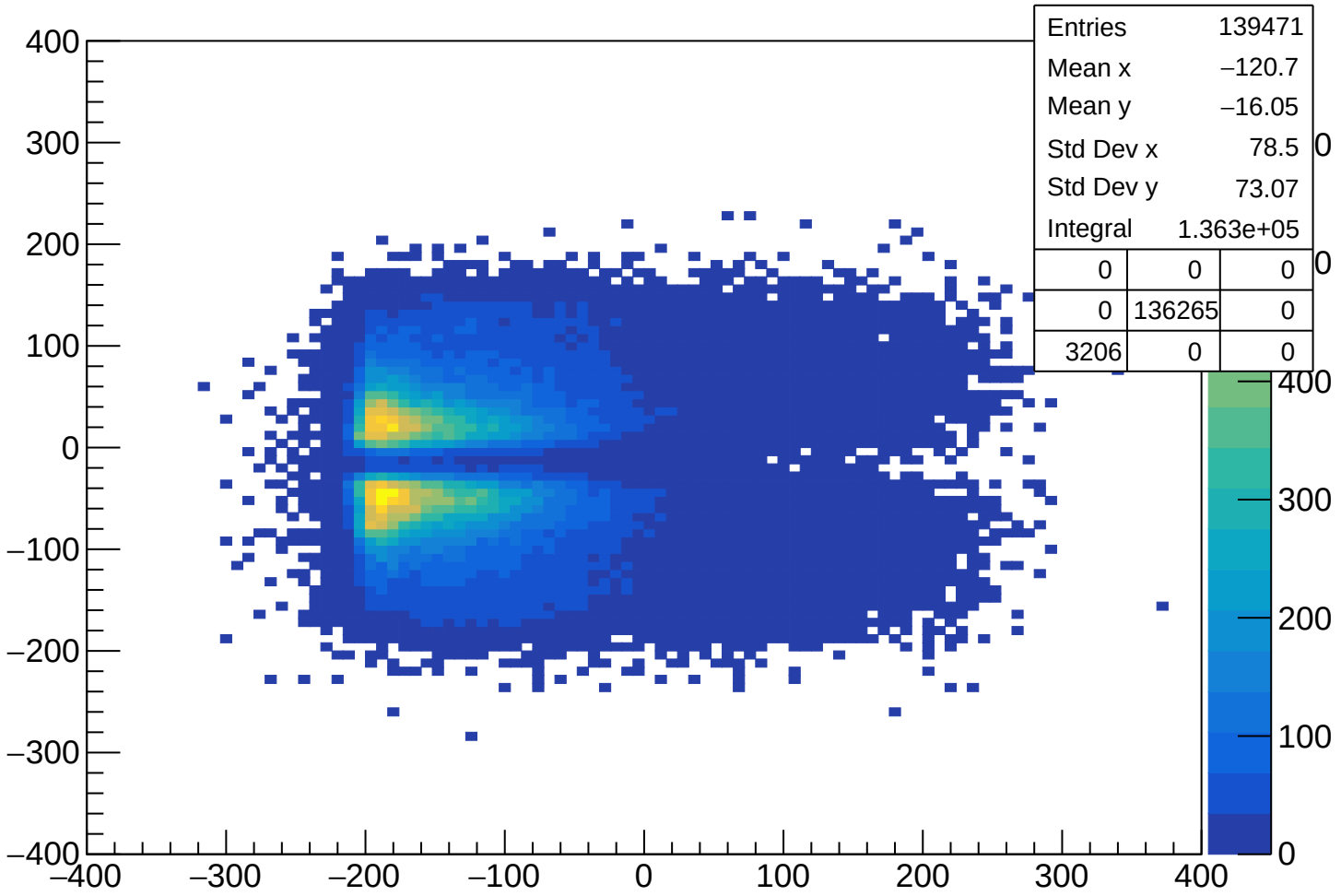

TofSeg[0] Cut3
Entries 123537
Mean 17.36
Std Dev 3.985
Underflow 0
Overflow 0
Integral 1.235e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

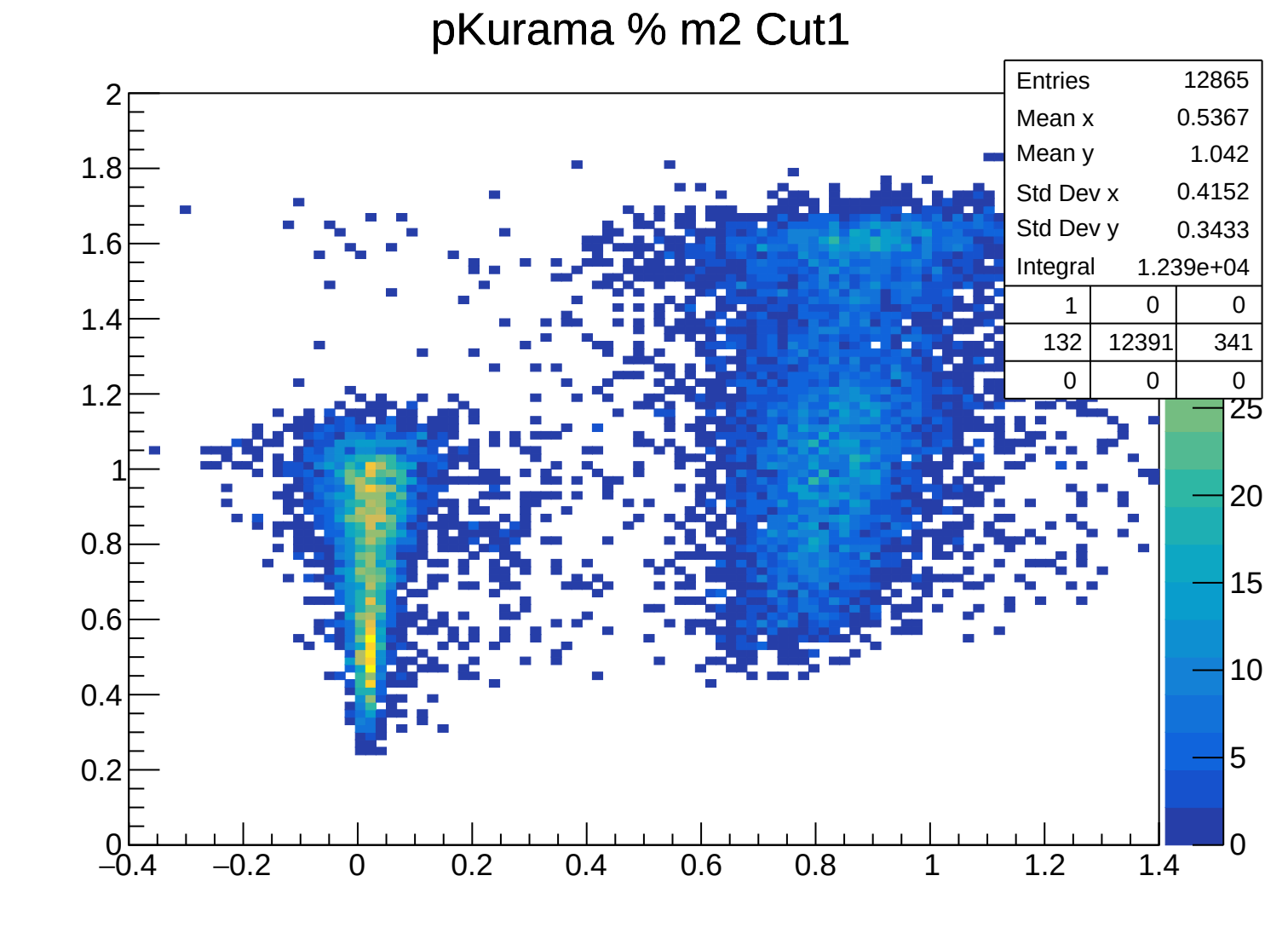

tofsegKurama[0] Cut3
Entries 123537
Mean 17.83
Std Dev 3.714
Underflow 1
Overflow 0
Integral 1.235e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

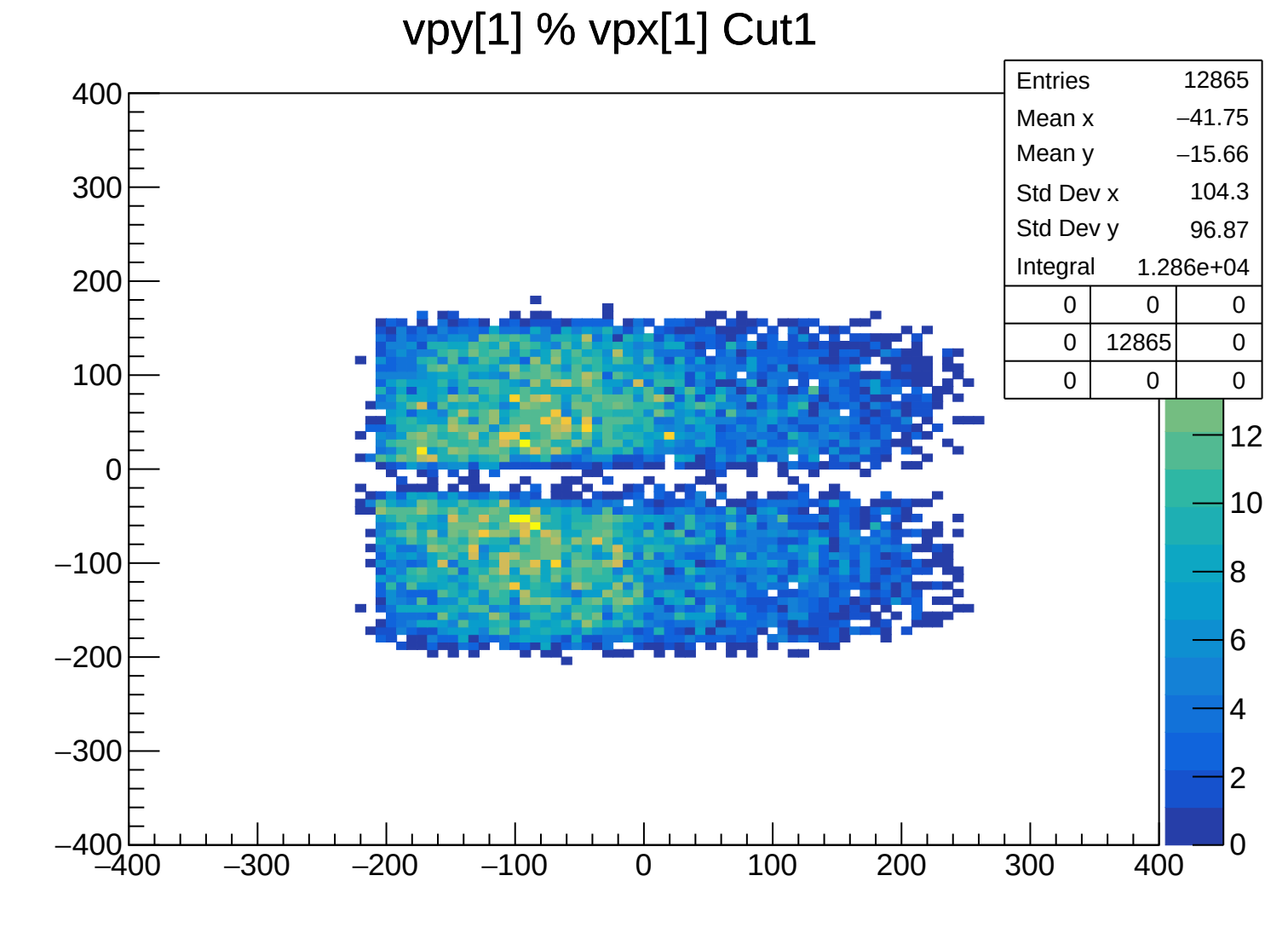

vpx[1] Cut3
Entries 138181
Mean −119.6
Std Dev 77.49
Underflow 0
Overflow 0
Integral 1.382e+05
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

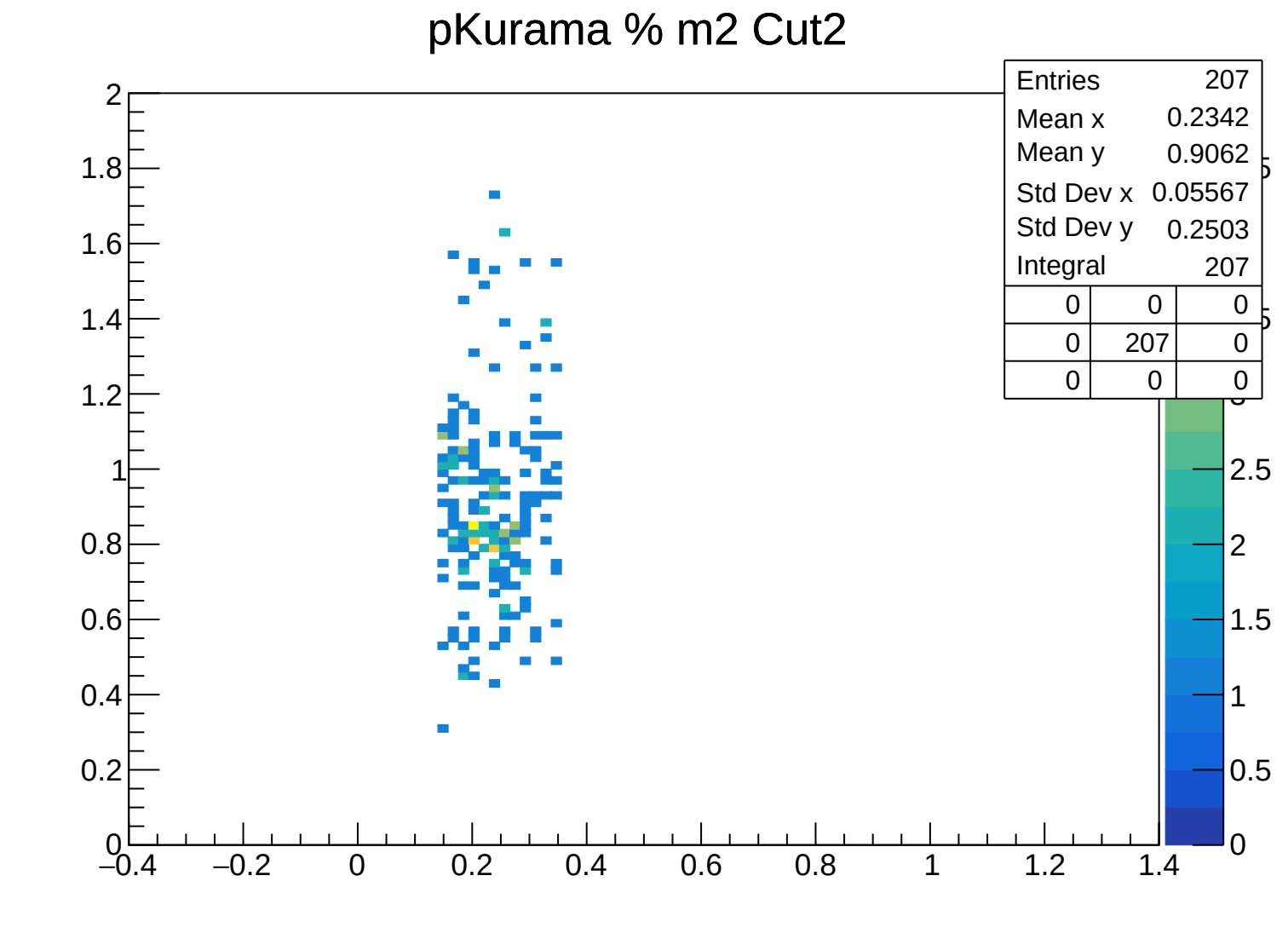

Sch Position by HitSegment Cut3
Entries 138181
Mean −119.5
Std Dev 77.65
Underflow 0
Overflow 0
Integral 1.382e+05
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

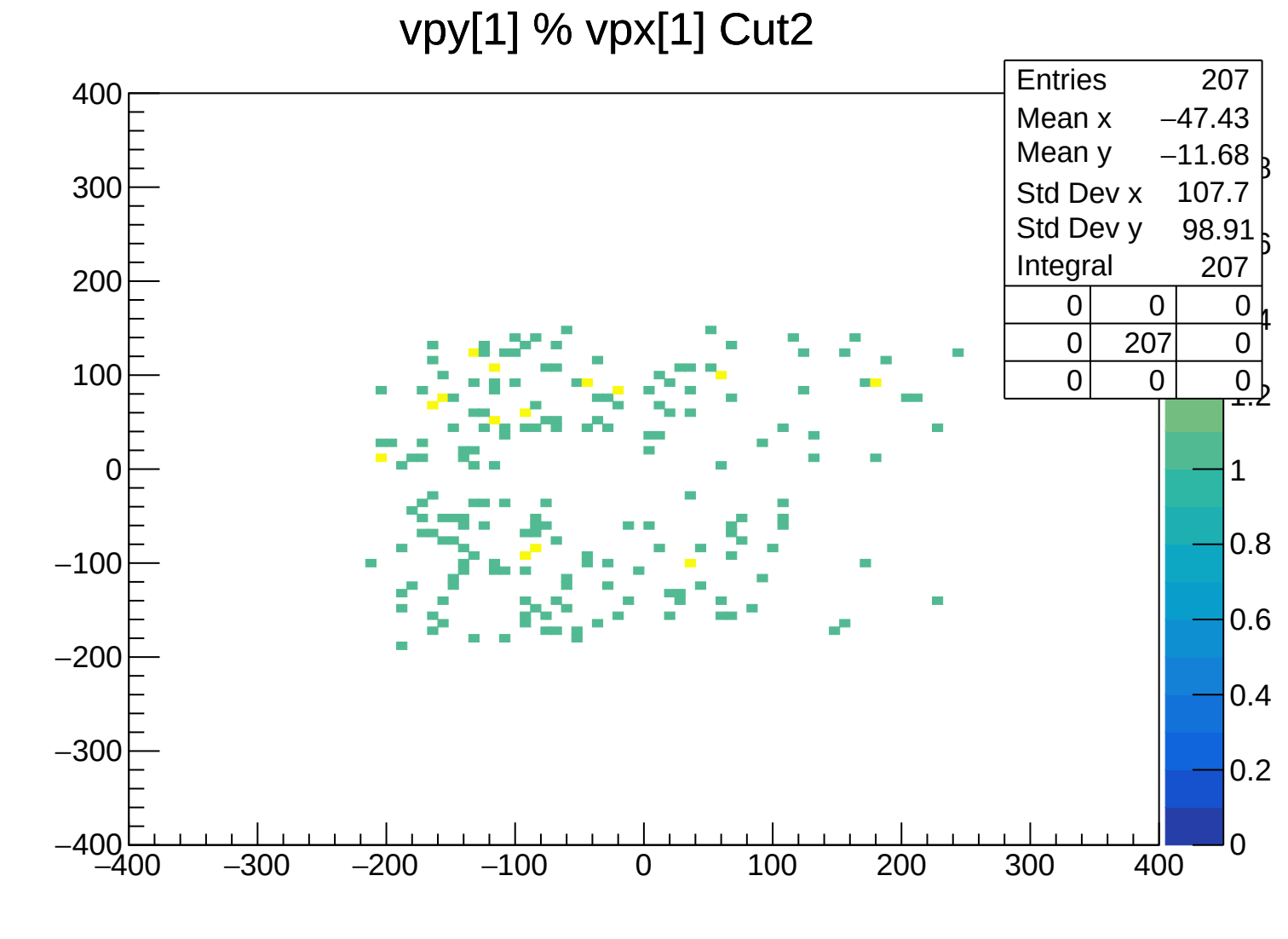

pKurama % m2
Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

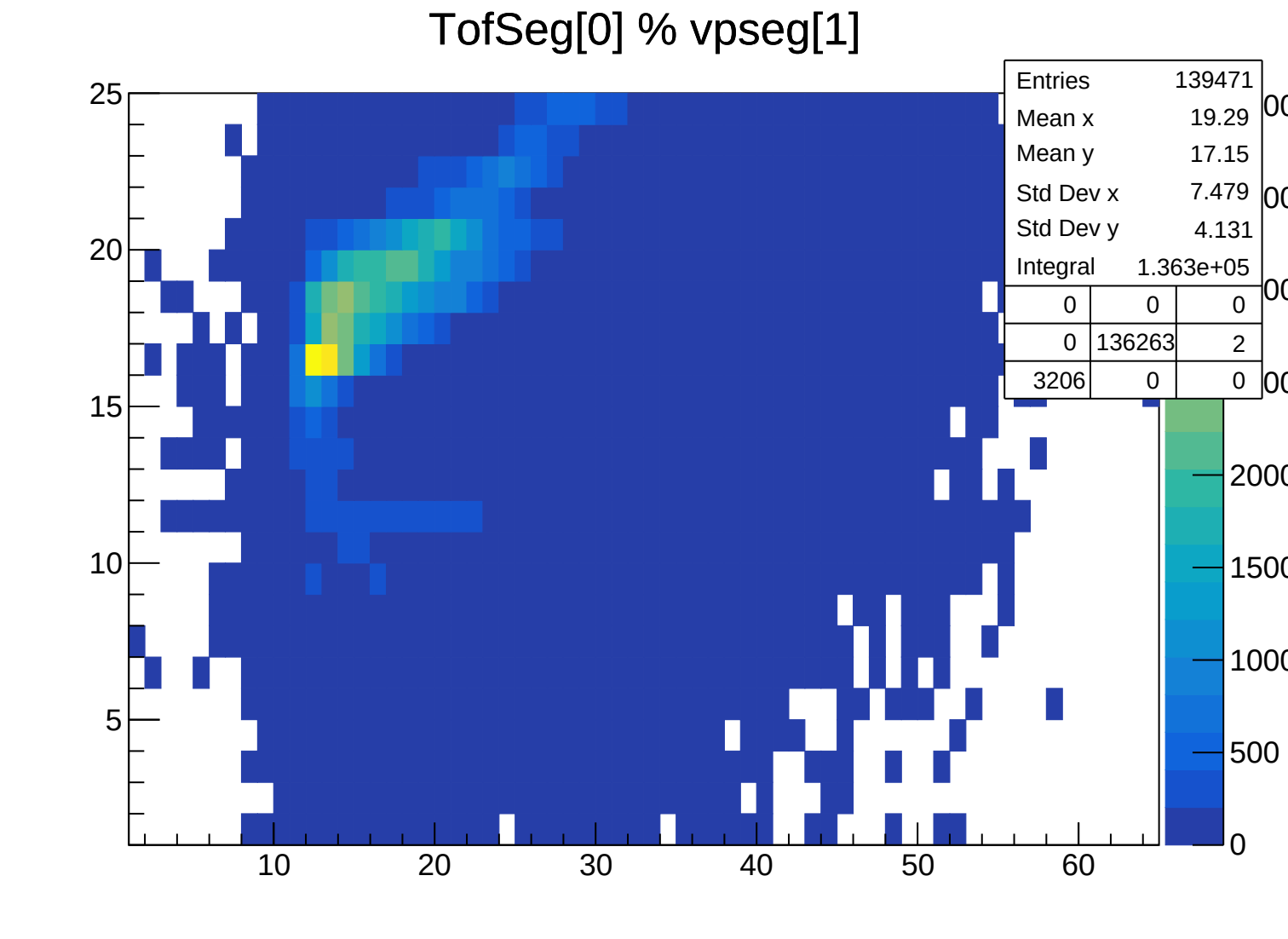

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
400
300
200
100
0

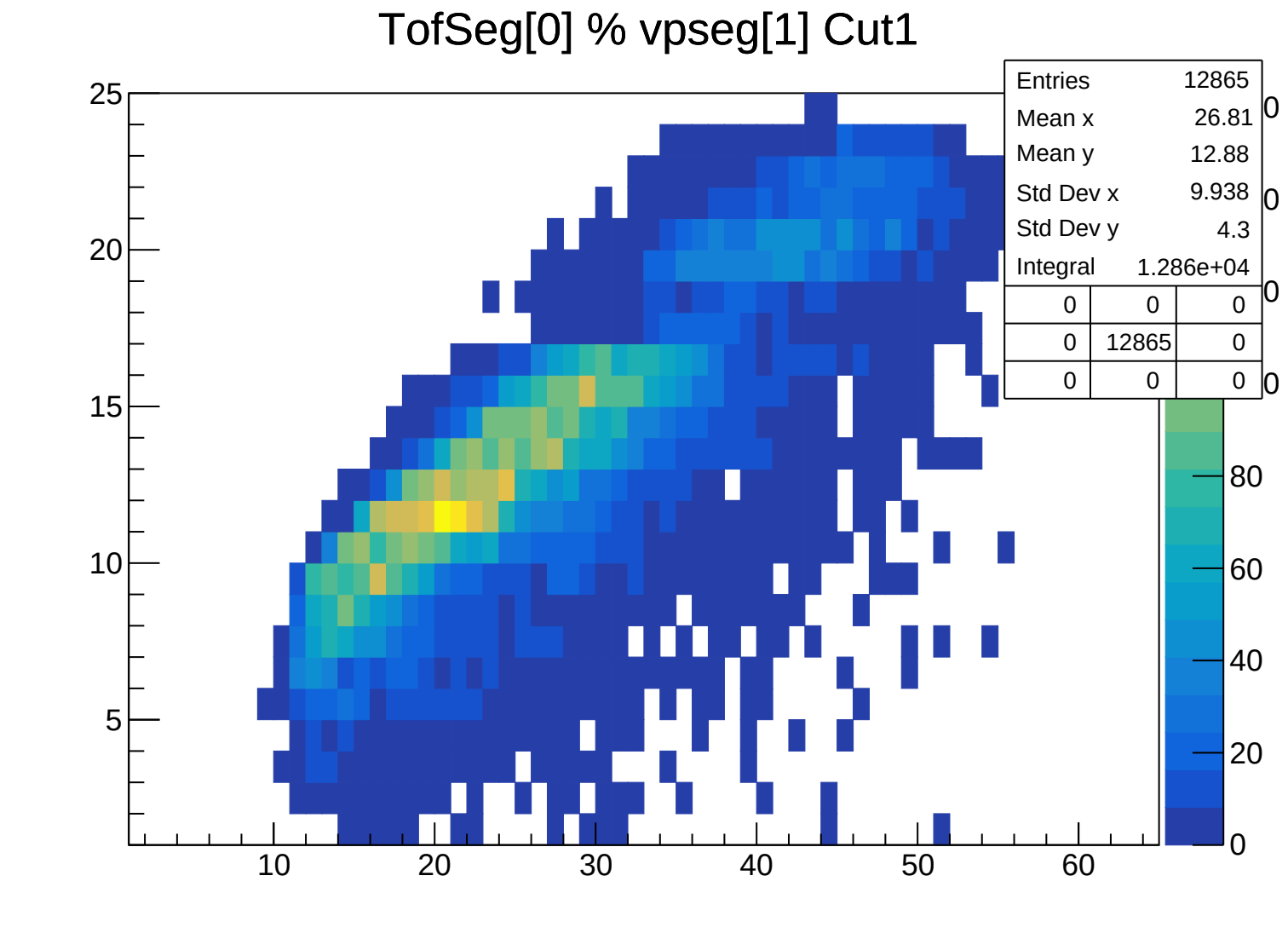

pKurama % m2 Cut1
Entries 12865
Mean x 0.5367
Mean y 1.042
Std Dev x 0.4152
Std Dev y 0.3433
Integral 1.239e+04
1 0 0
132 12391 341
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
25
20
15
10
5
0

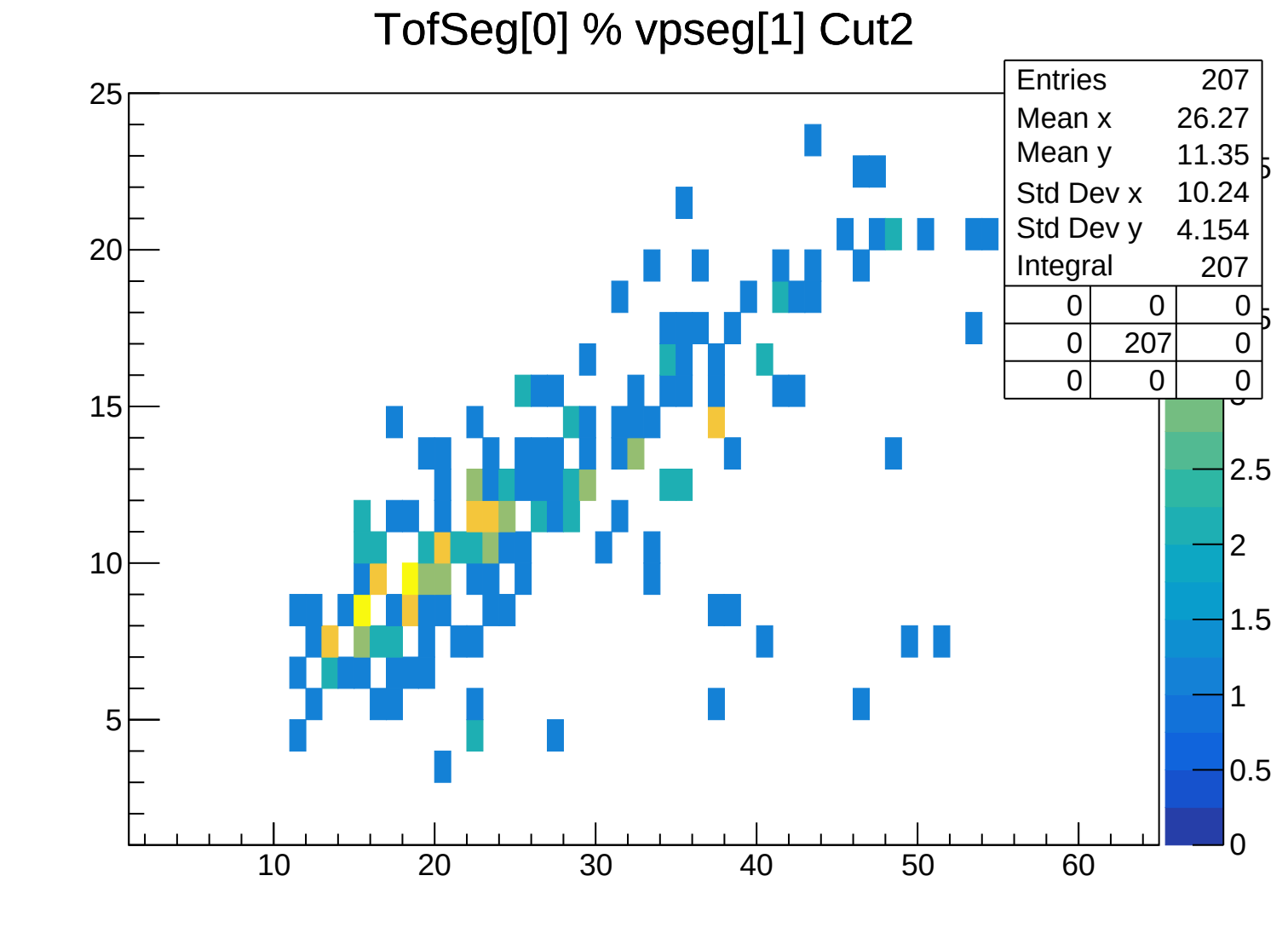

vpy[1] % vpx[1] Cut1
Entries 12865
Mean x −41.75
Mean y −15.66
Std Dev x 104.3
Std Dev y 96.87
Integral 1.286e+04
0 0 0
0 12865 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
12
10
8
6
4
2
0

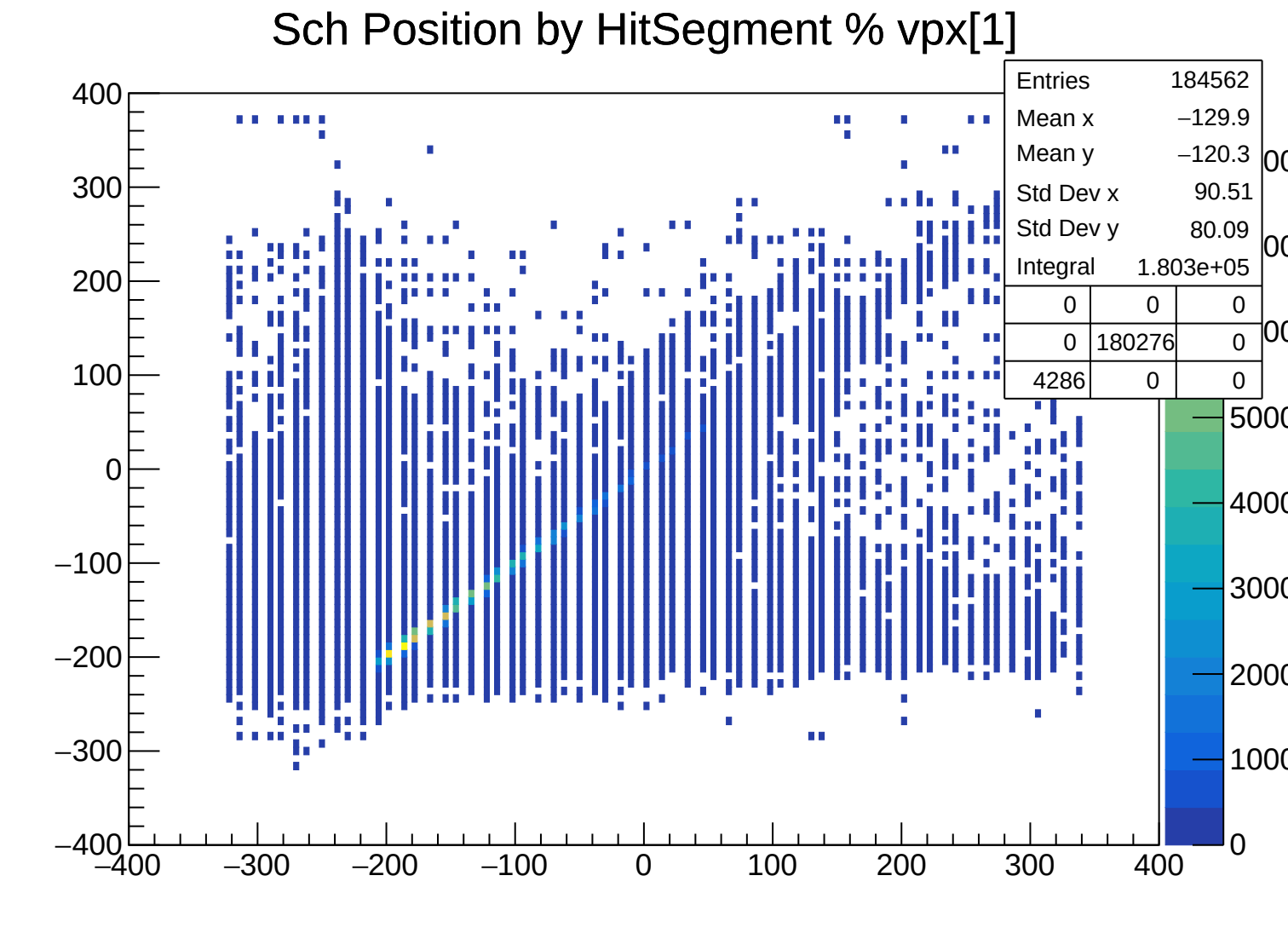

pKurama % m2 Cut2
Entries 207
Mean x 0.2342
Mean y 0.9062
Std Dev x 0.05567
Std Dev y 0.2503
Integral 207
0 0 0
0 207 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
2.5
2
1.5
1
0.5
0

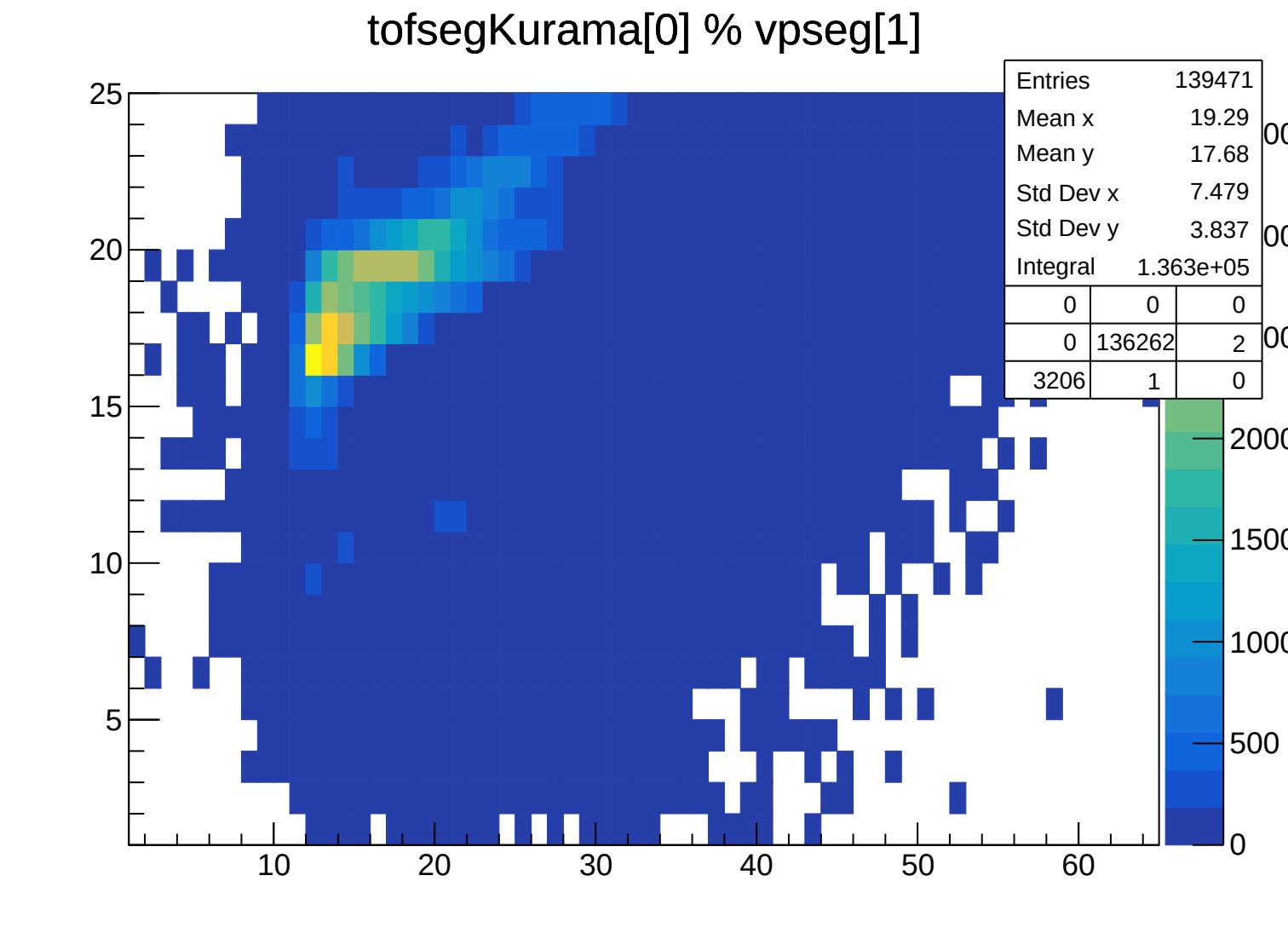

vpy[1] % vpx[1] Cut2
Entries 207
Mean x −47.43
Mean y −11.68
Std Dev x 107.7
Std Dev y 98.91
Integral 207
0 0 0
0 207 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
1
0.8
0.6
0.4
0.2
0

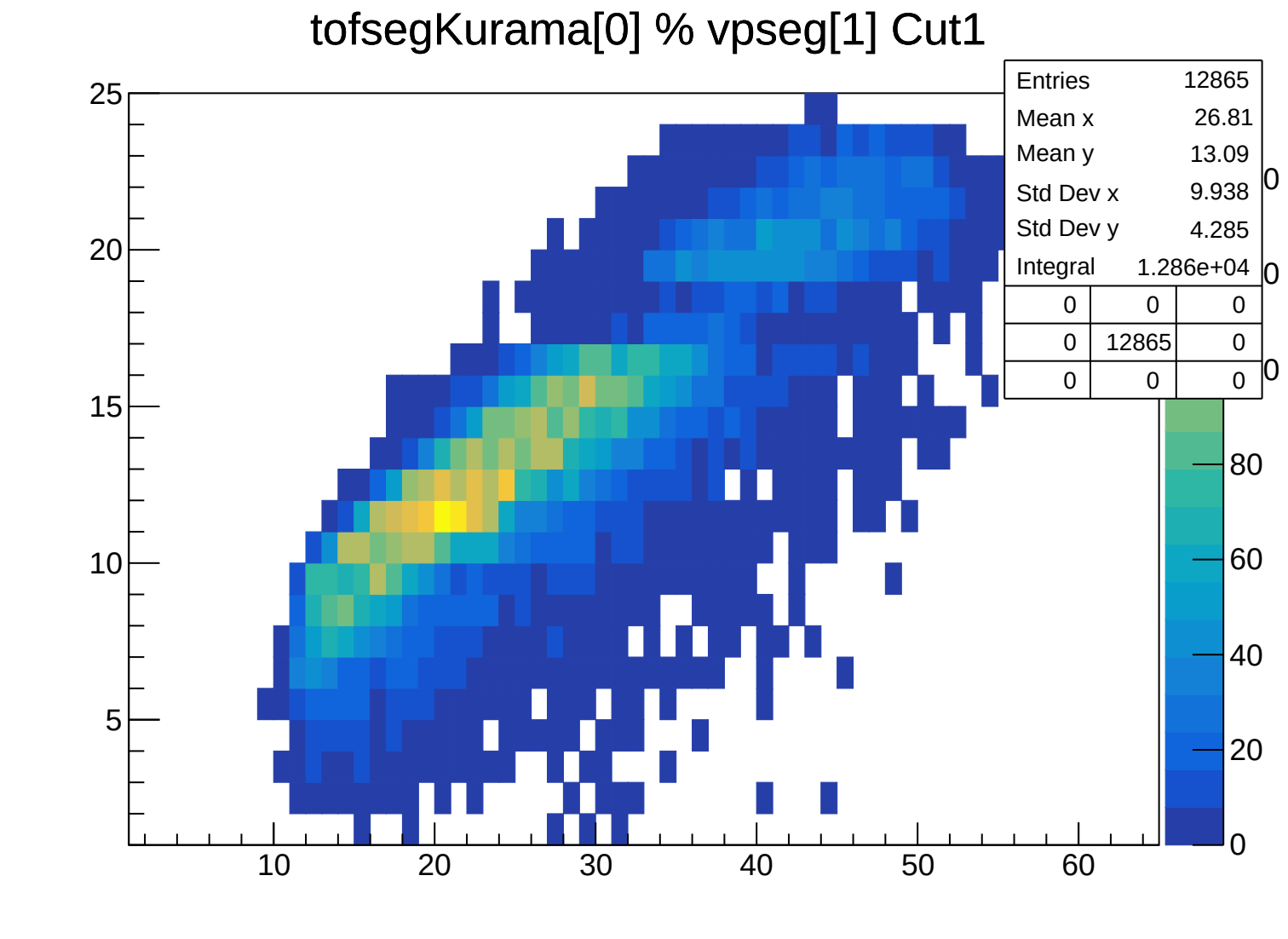

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 17.15
Std Dev x 7.479
Std Dev y 4.131
Integral 1.363e+05
0 0 0
0 136263 2
3206 0 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0

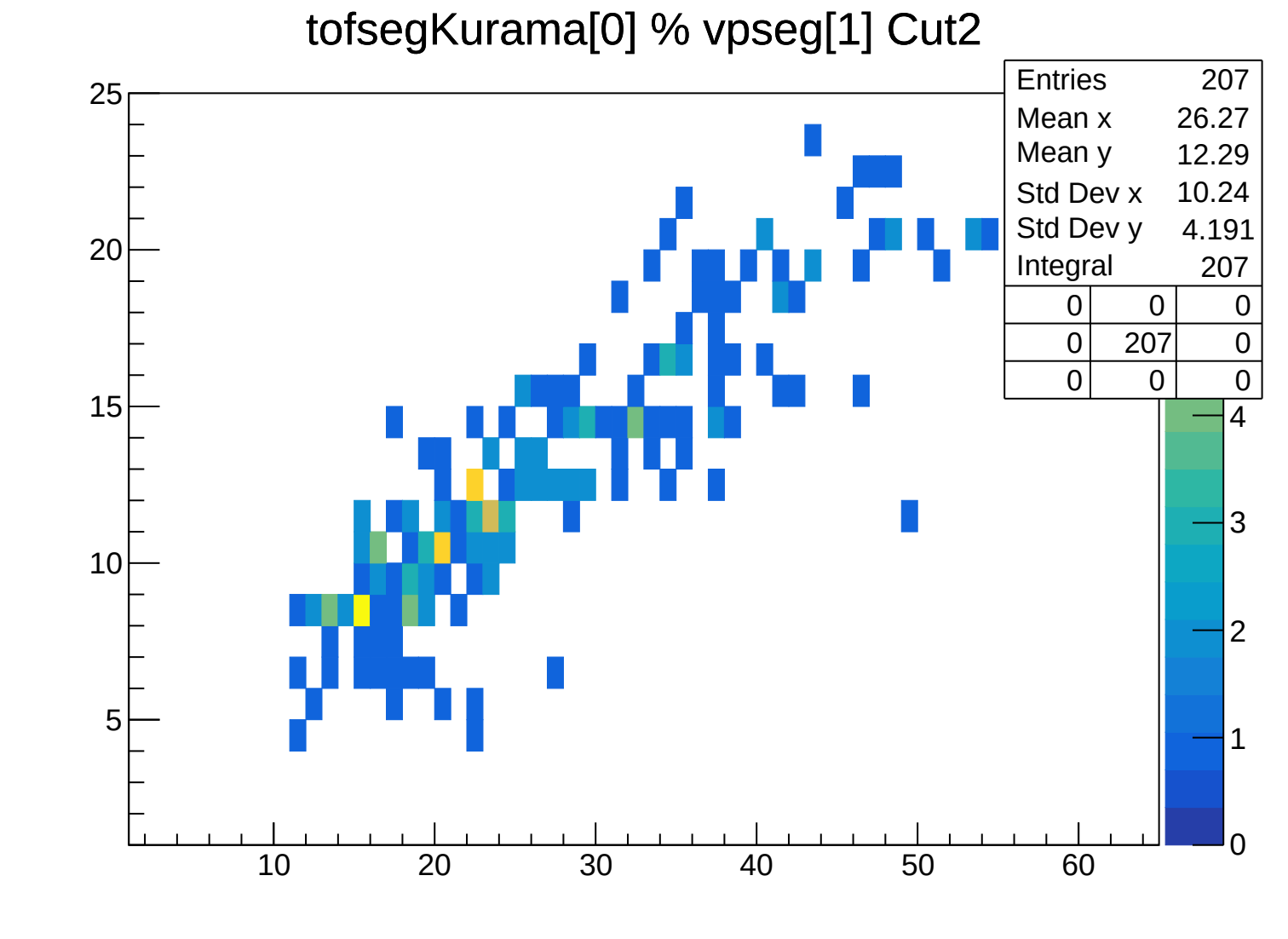

TofSeg[0] % vpseg[1] Cut1
Entries 12865
Mean x 26.81
Mean y 12.88
Std Dev x 9.938
Std Dev y 4.3
Integral 1.286e+04
0 0 0
0 12865 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
80
60
40
20
0

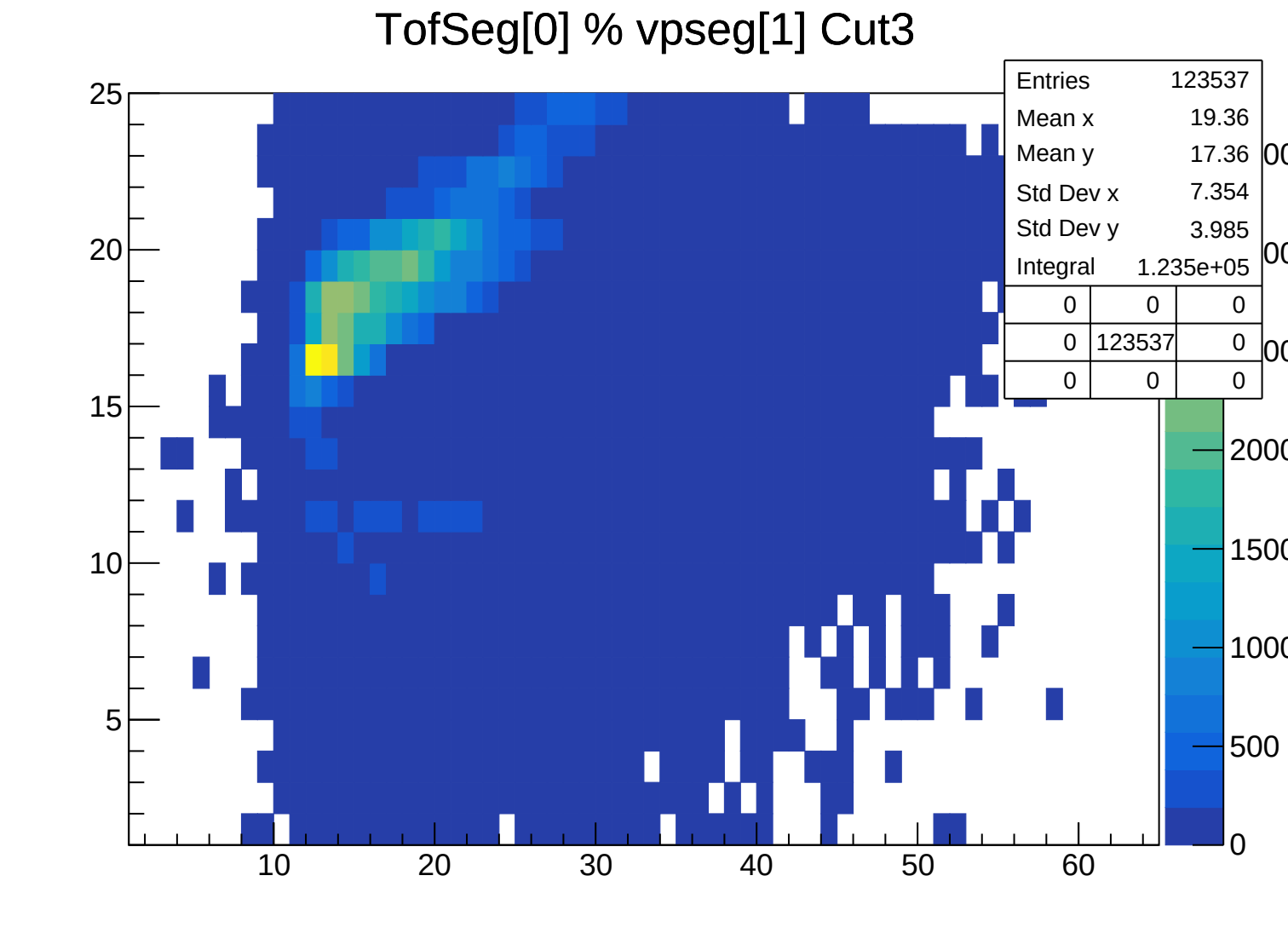

TofSeg[0] % vpseg[1] Cut2
Entries 207
Mean x 26.27
Mean y 11.35
Std Dev x 10.24
Std Dev y 4.154
Integral 207
0 0 0
0 207 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
2.5
2
1.5
1
0.5
0

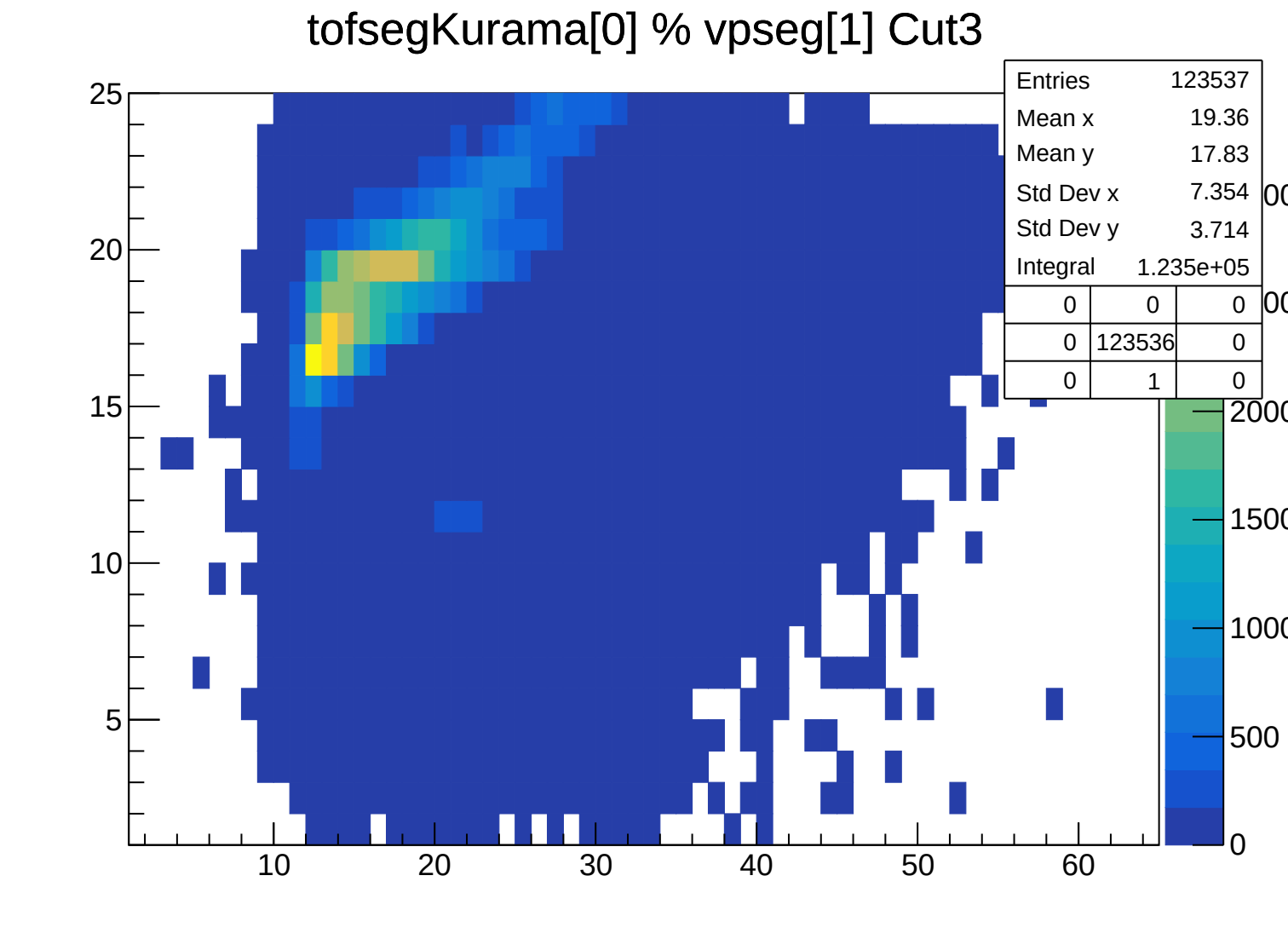

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

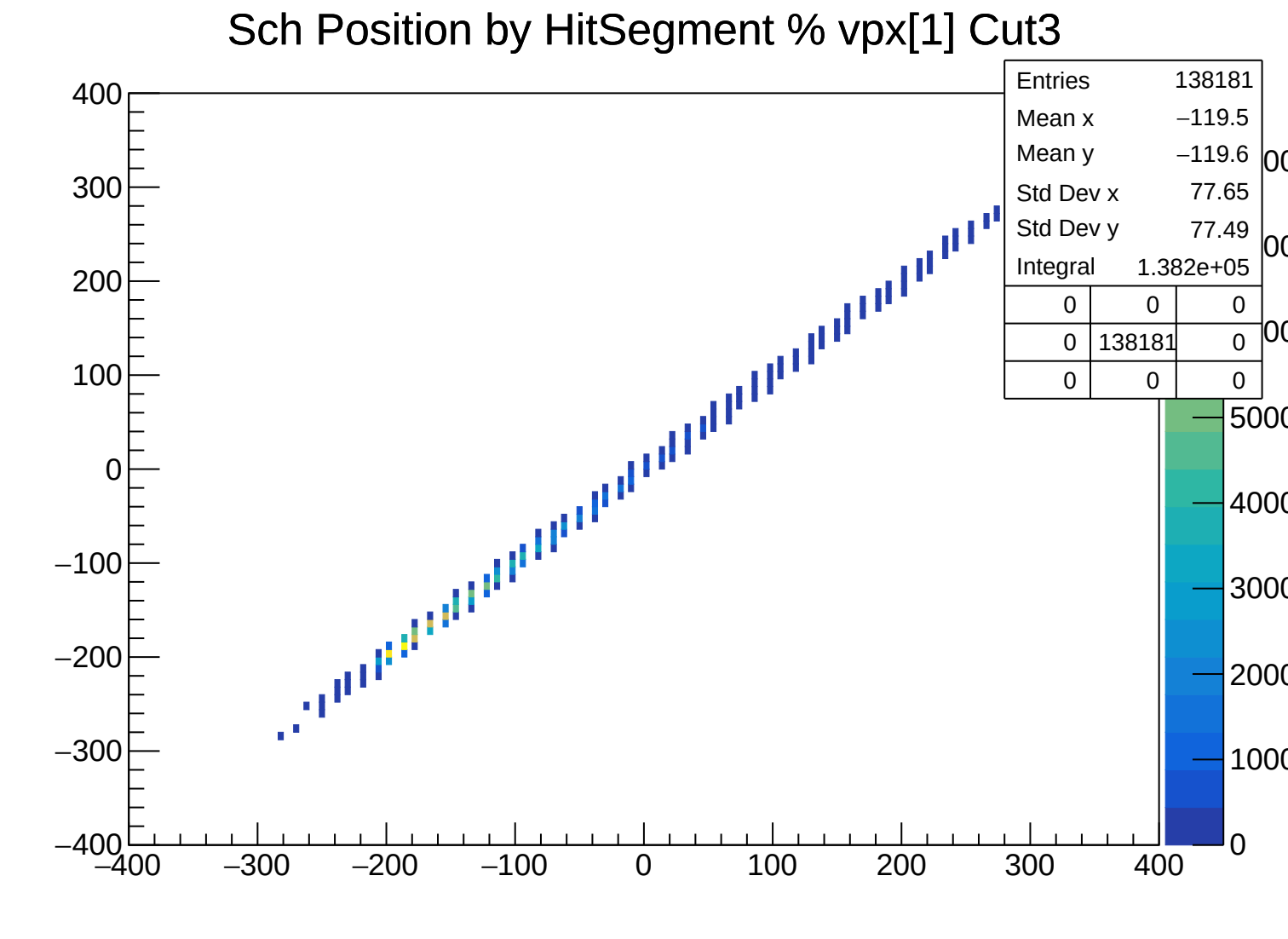

tofsegKurama[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 17.68
Std Dev x 7.479
Std Dev y 3.837
Integral 1.363e+05
0 0 0
0 136262 2
3206 1 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0


tofsegKurama[0] % vpseg[1] Cut1
Entries 12865
Mean x 26.81
Mean y 13.09
Std Dev x 9.938
Std Dev y 4.285
Integral 1.286e+04
0 0 0
0 12865 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
80
60
40
20
0


tofsegKurama[0] % vpseg[1] Cut2
Entries 207
Mean x 26.27
Mean y 12.29
Std Dev x 10.24
Std Dev y 4.191
Integral 207
0 0 0
0 207 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
4
3
2
1
0


TofSeg[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 17.36
Std Dev x 7.354
Std Dev y 3.985
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0


tofsegKurama[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 17.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0


Sch Position by HitSegment % vpx[1] Cut3
Entries 138181
Mean x −119.5
Mean y −119.6
Std Dev x 77.65
Std Dev y 77.49
Integral 1.382e+05
0 0 0
0 138181 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0