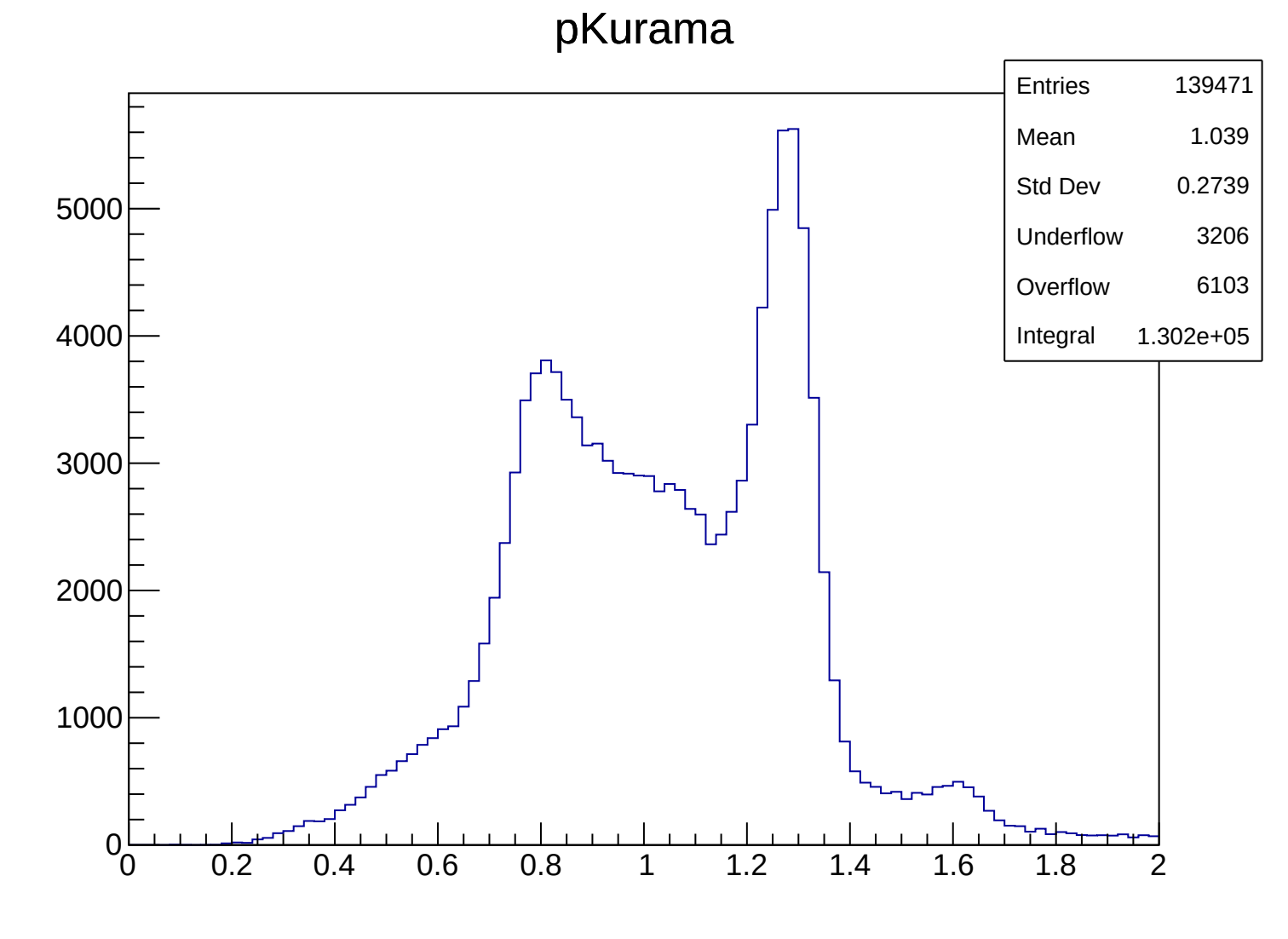
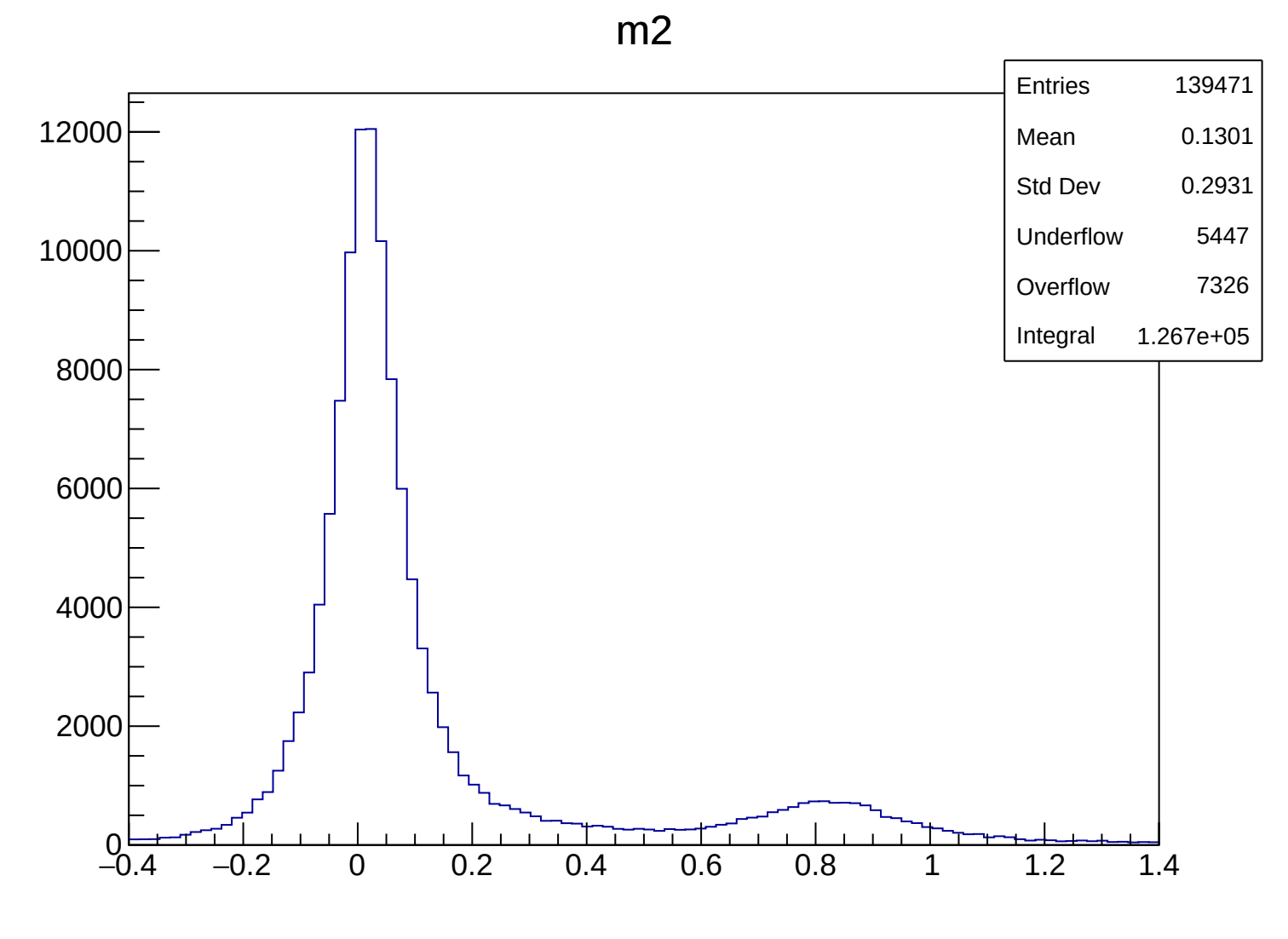
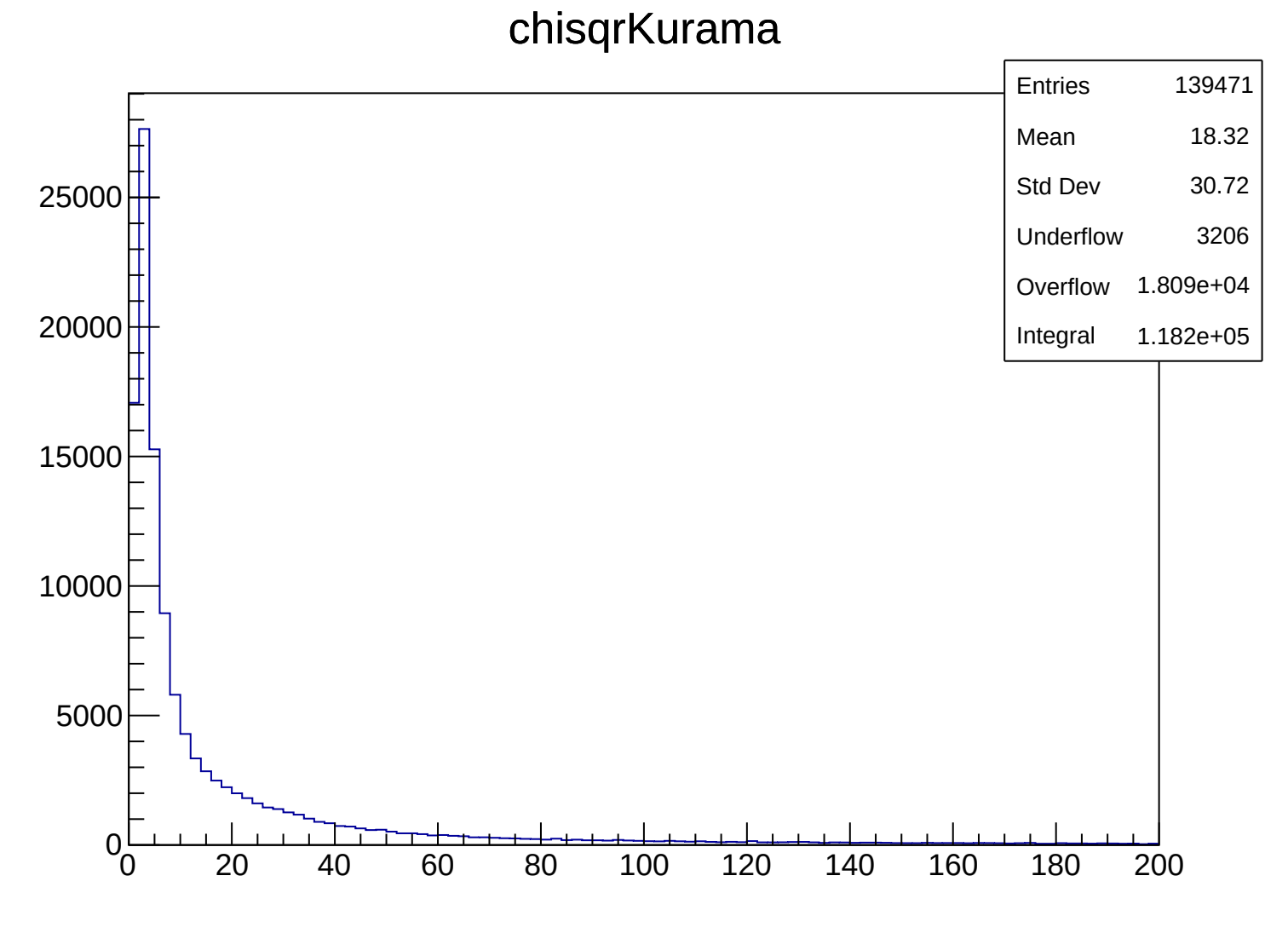
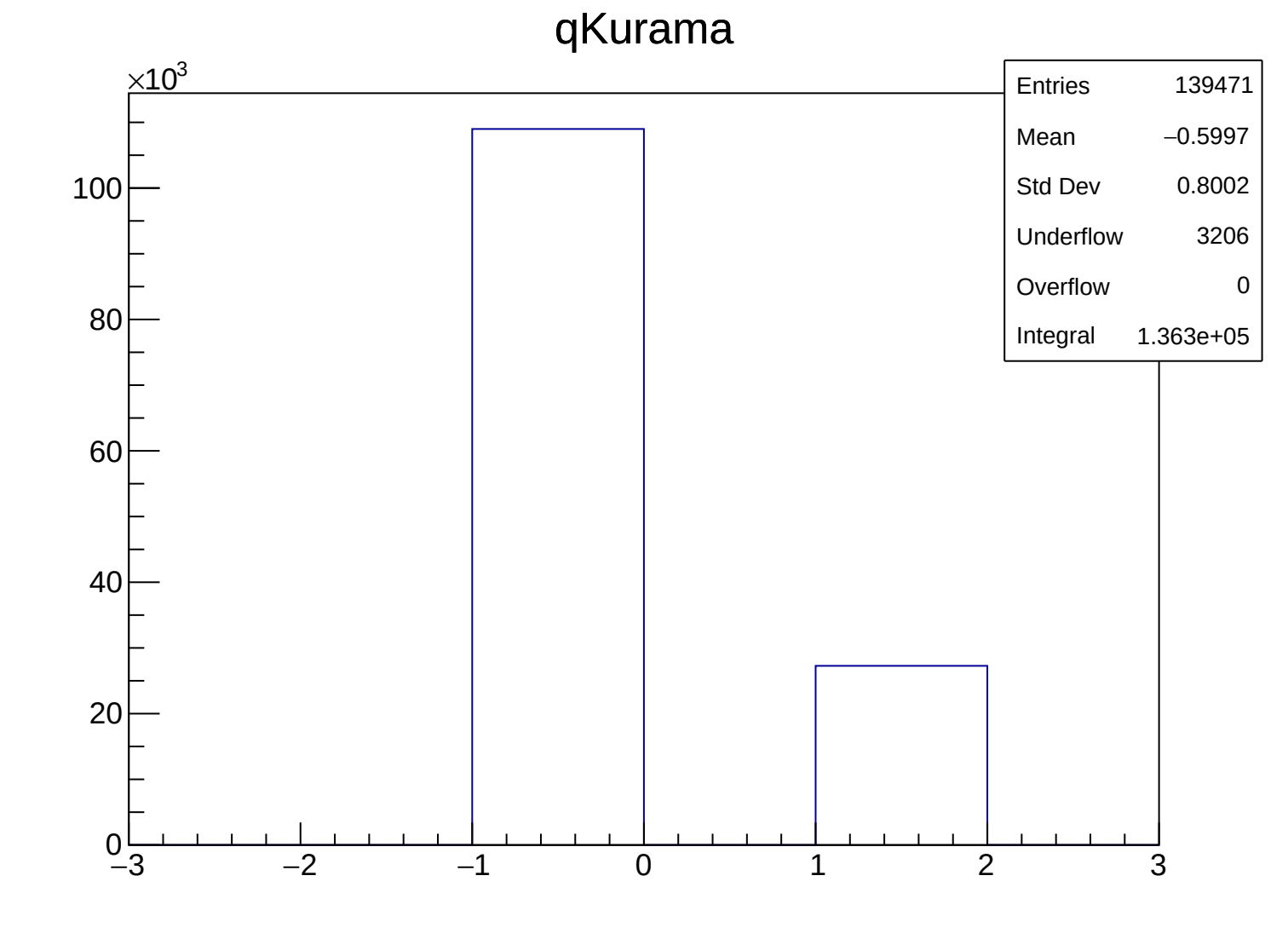
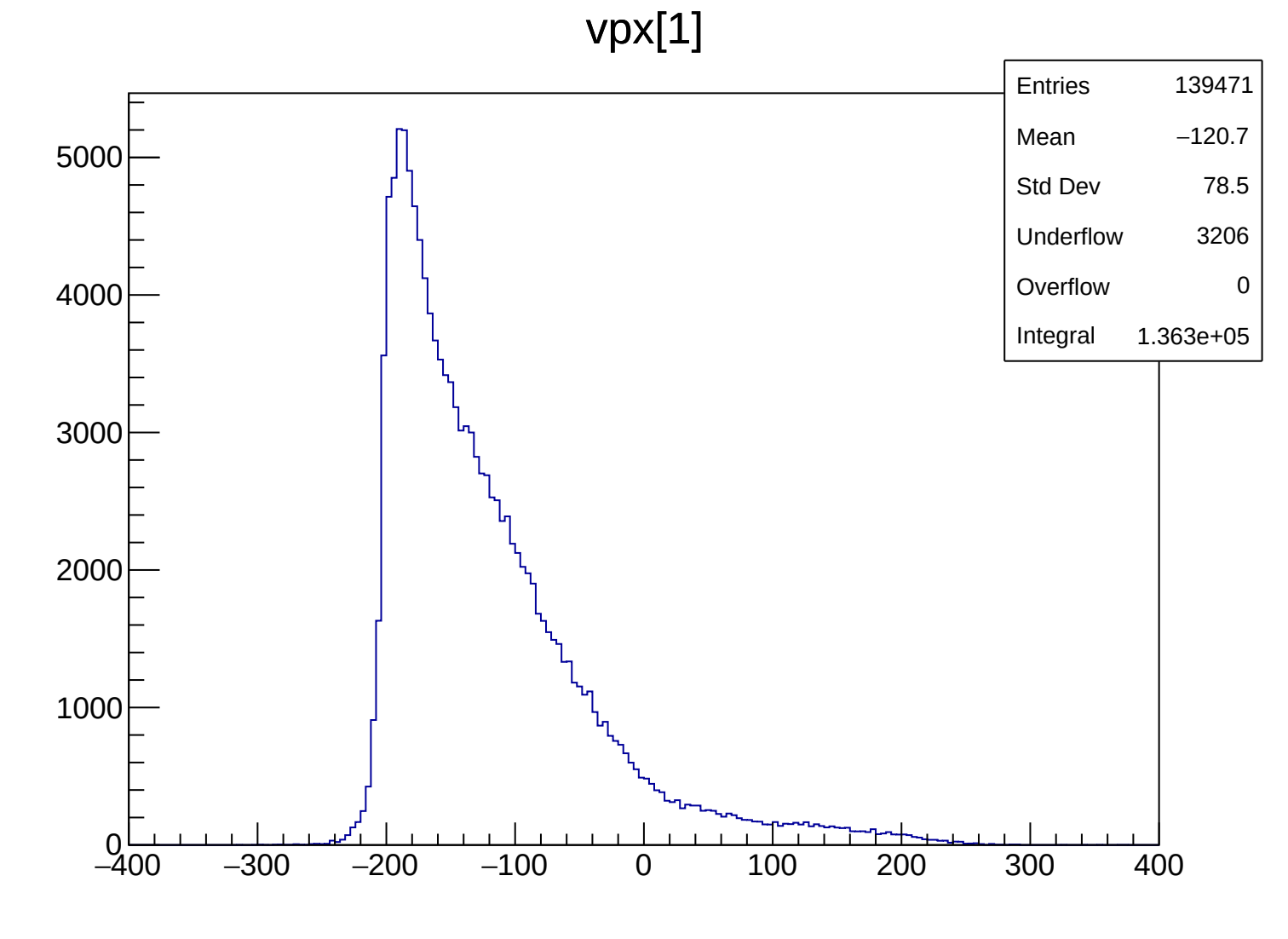
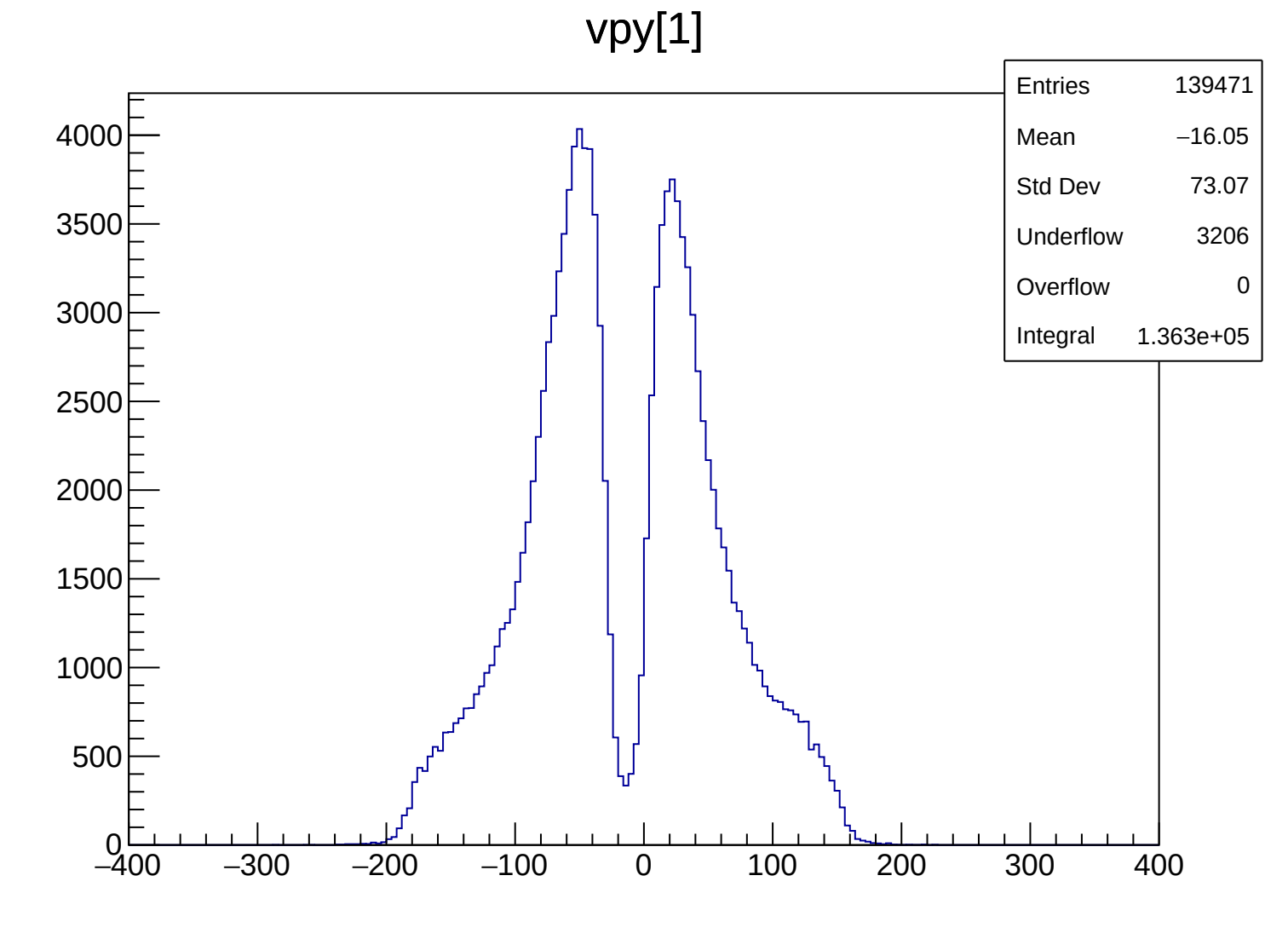

pKurama
Entries 139471
Mean 1.039
Std Dev 0.2739
Underflow 3206
Overflow 6103
Integral 1.302e+05
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

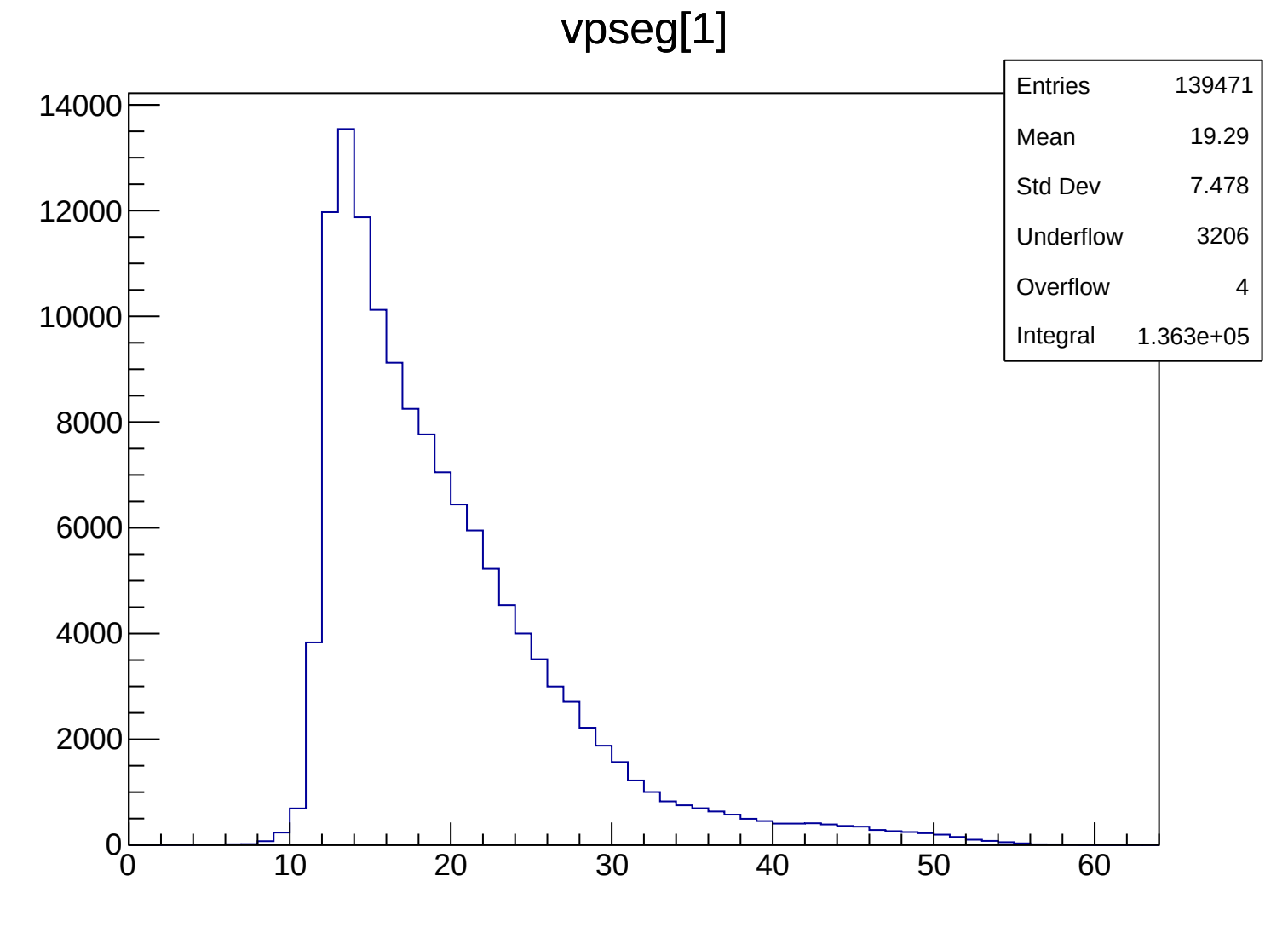

m2
Entries 139471
Mean 0.1301
Std Dev 0.2931
Underflow 5447
Overflow 7326
Integral 1.267e+05
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

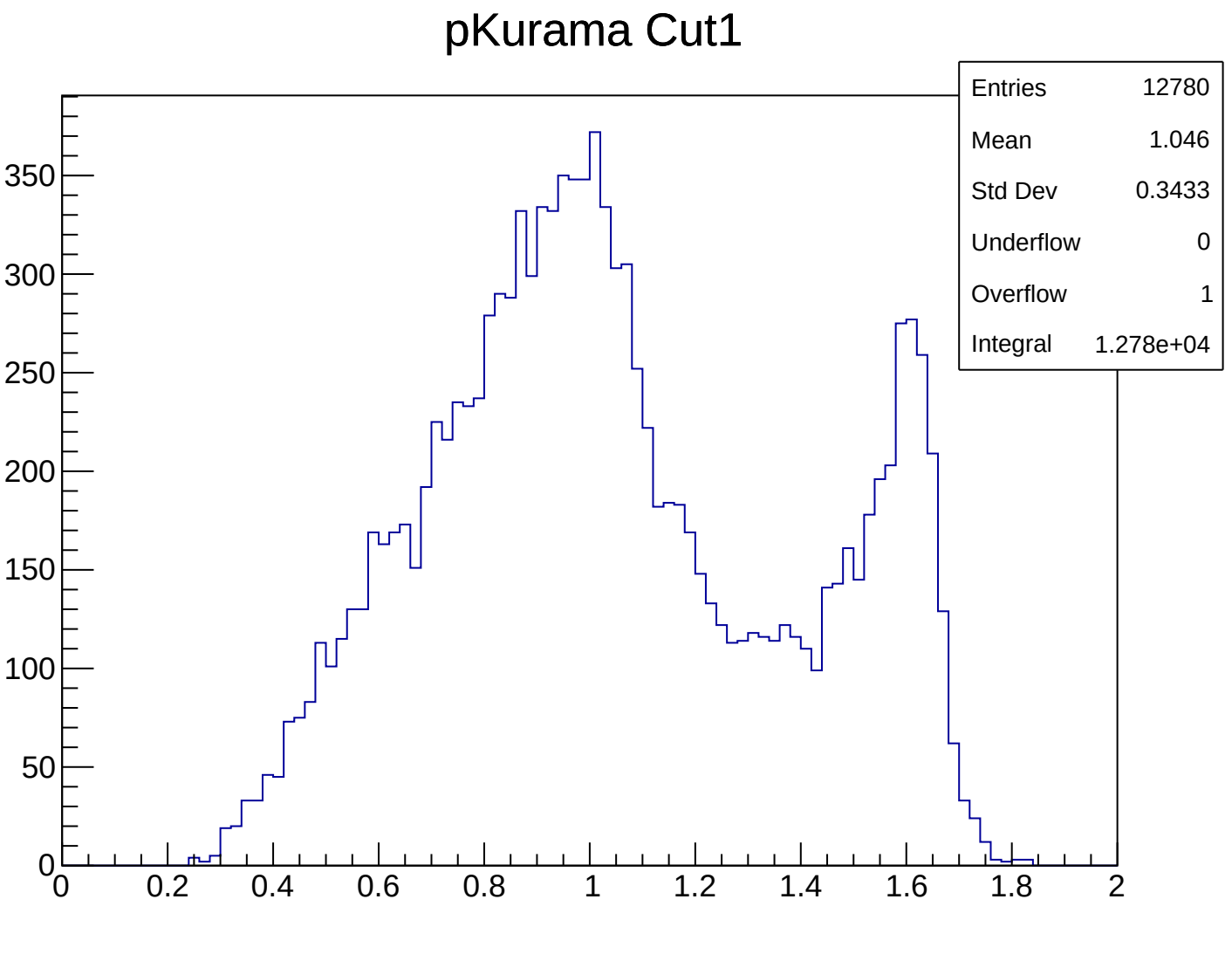

chisqrKurama
Entries 139471
Mean 18.32
Std Dev 30.72
Underflow 3206
Overflow 1.809e+04
Integral 1.182e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

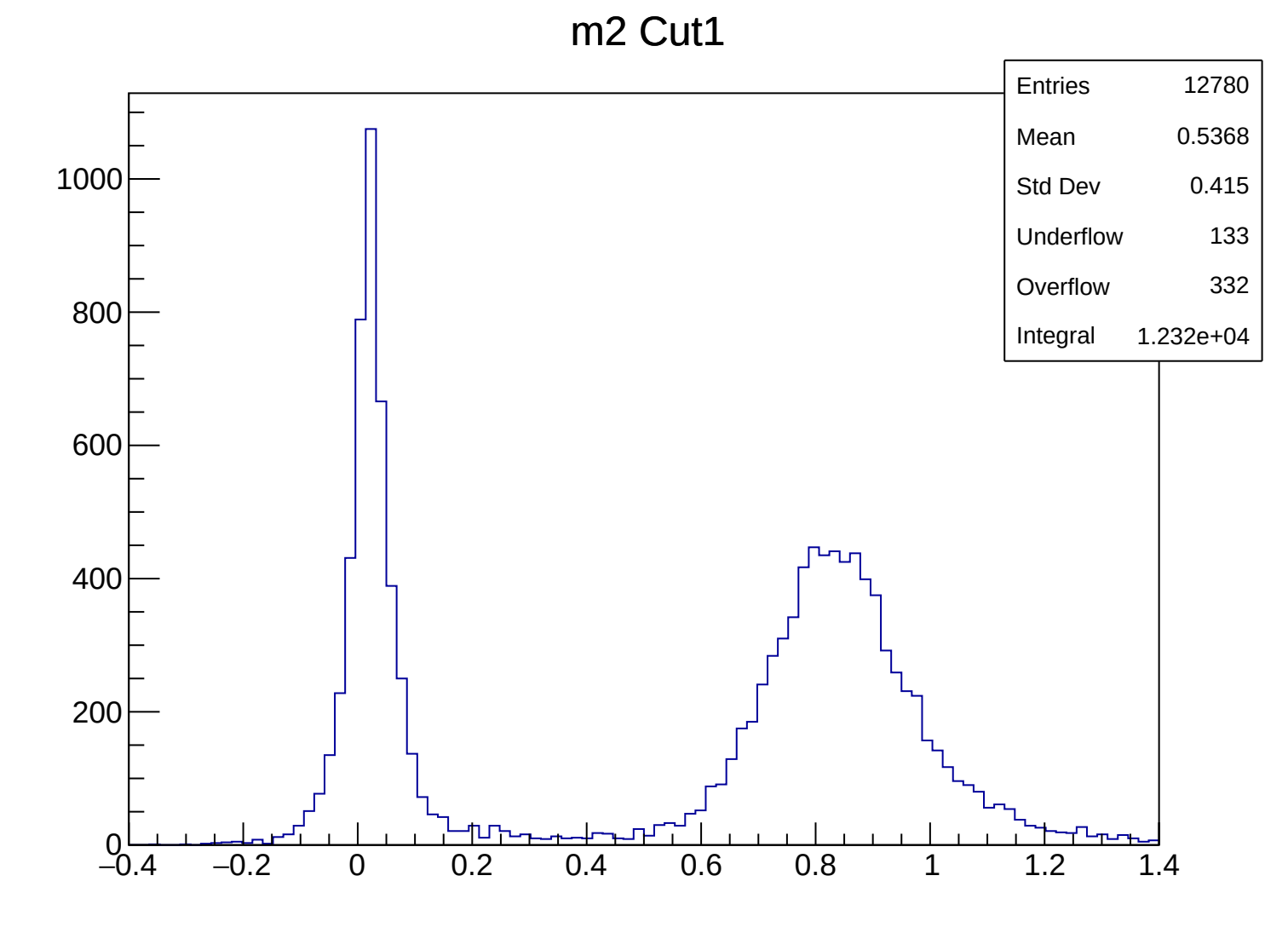

qKurama
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 139471
Mean −0.5997
Std Dev 0.8002
Underflow 3206
Overflow 0
Integral 1.363e+05

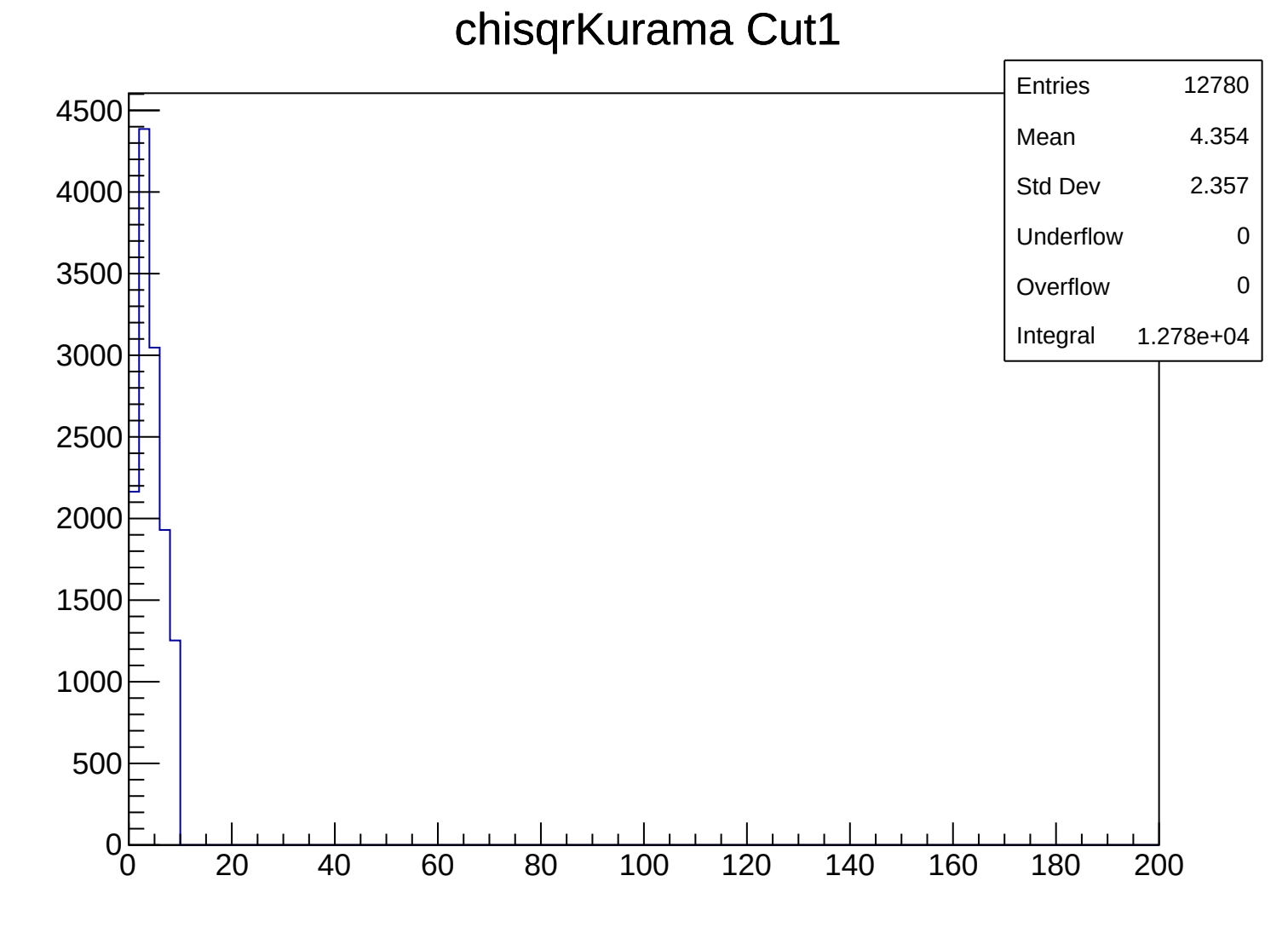

vpx[1]
Entries 139471
Mean –120.7
Std Dev 78.5
Underflow 3206
Overflow 0
Integral 1.363e+05
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

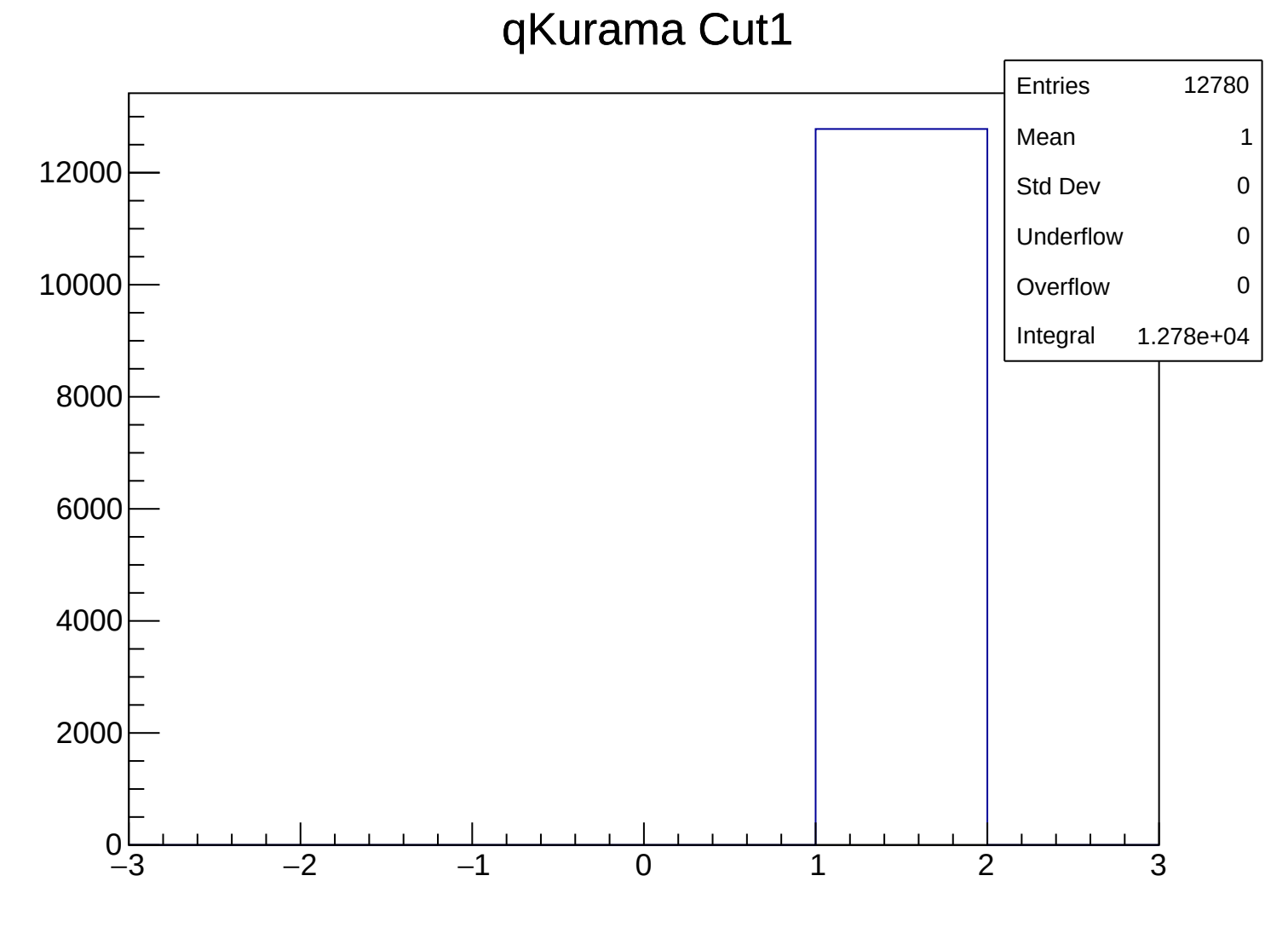

vpy[1]
Entries 139471
Mean −16.05
Std Dev 73.07
Underflow 3206
Overflow 0
Integral 1.363e+05
4000
3500
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

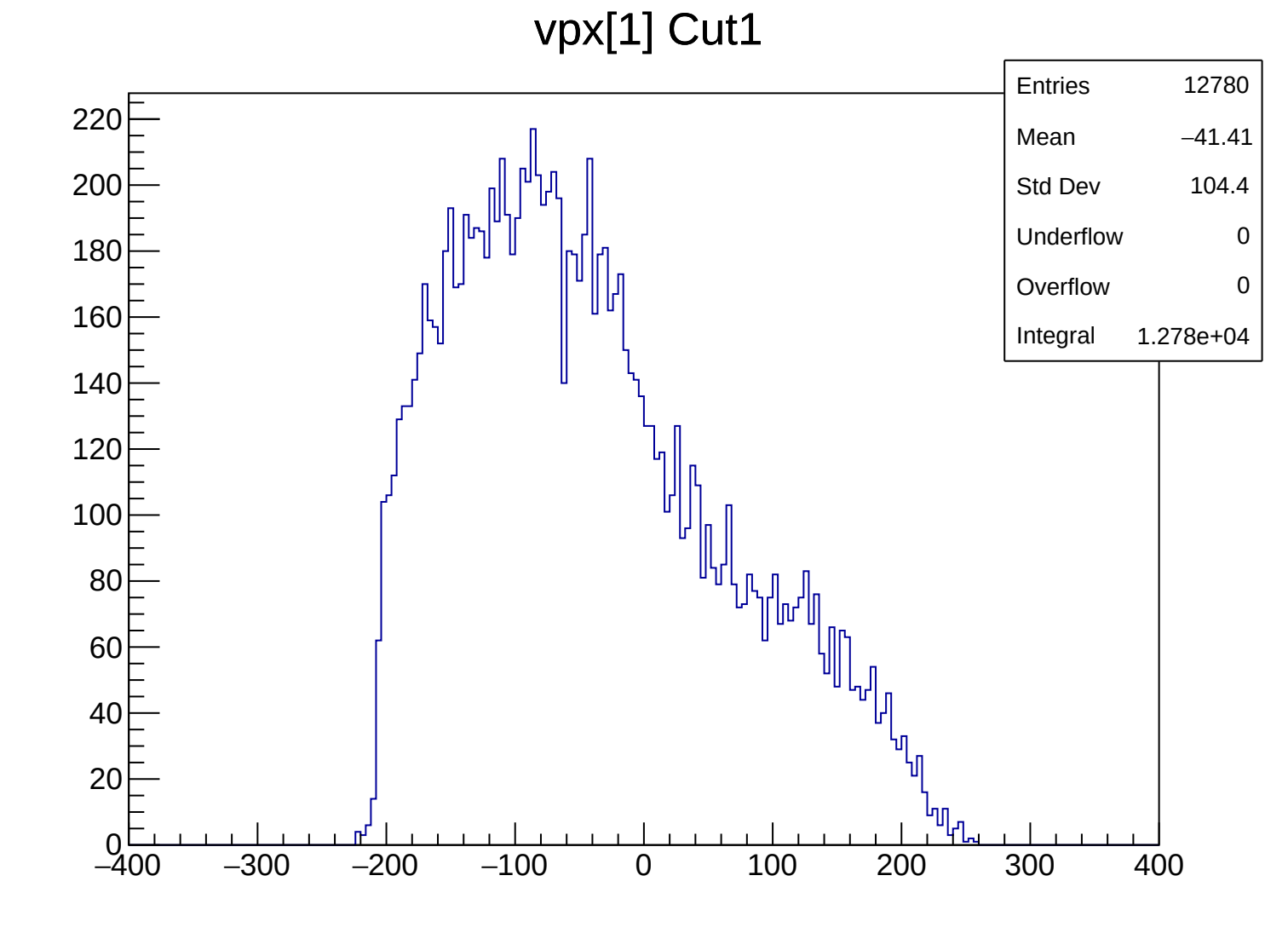

vpseg[1]
Entries 139471
Mean 19.29
Std Dev 7.478
Underflow 3206
Overflow 4
Integral 1.363e+05
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

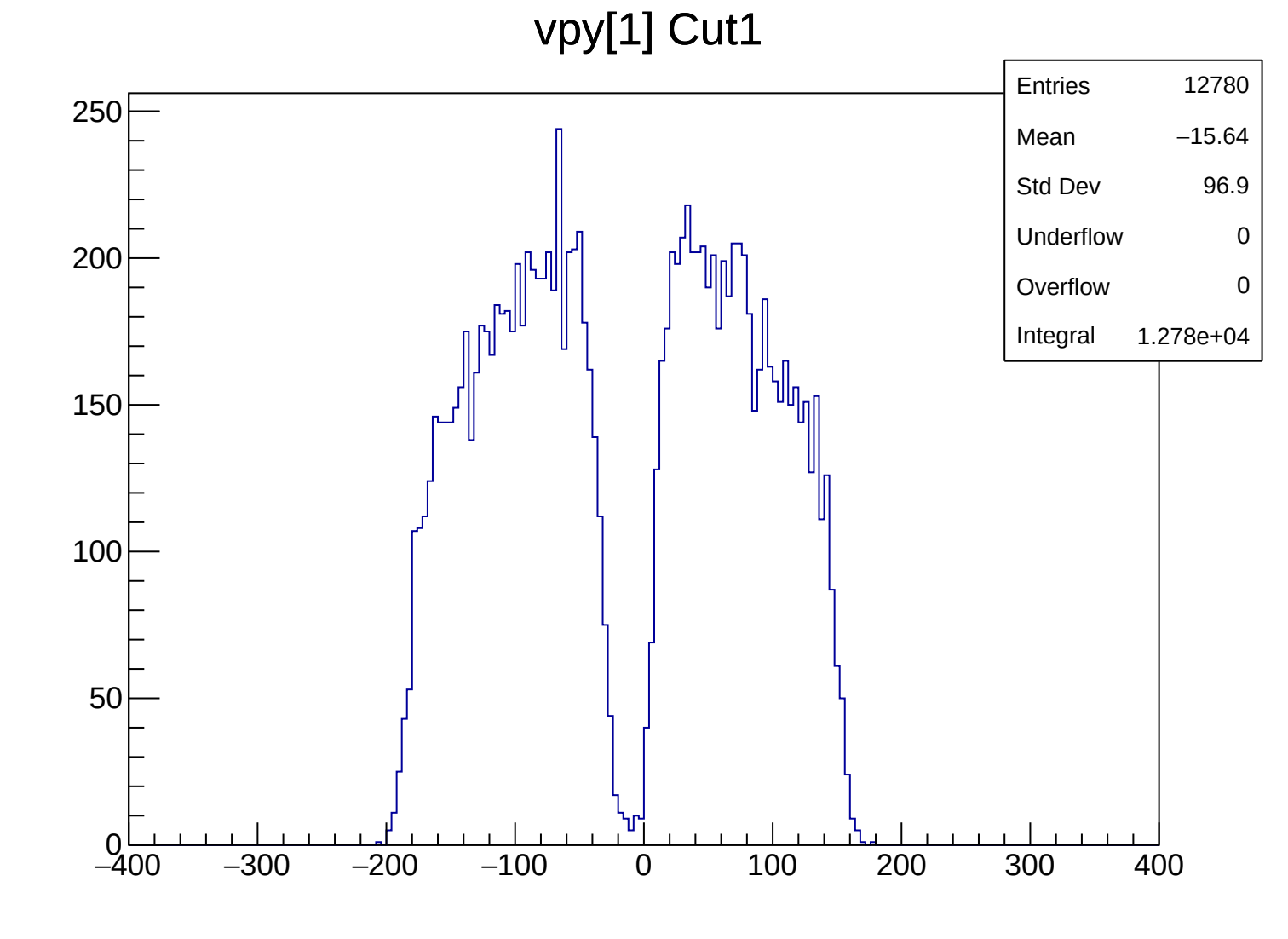

pKurama Cut1
Entries 12780
Mean 1.046
Std Dev 0.3433
Underflow 0
Overflow 1
Integral 1.278e+04
350
300
250
200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

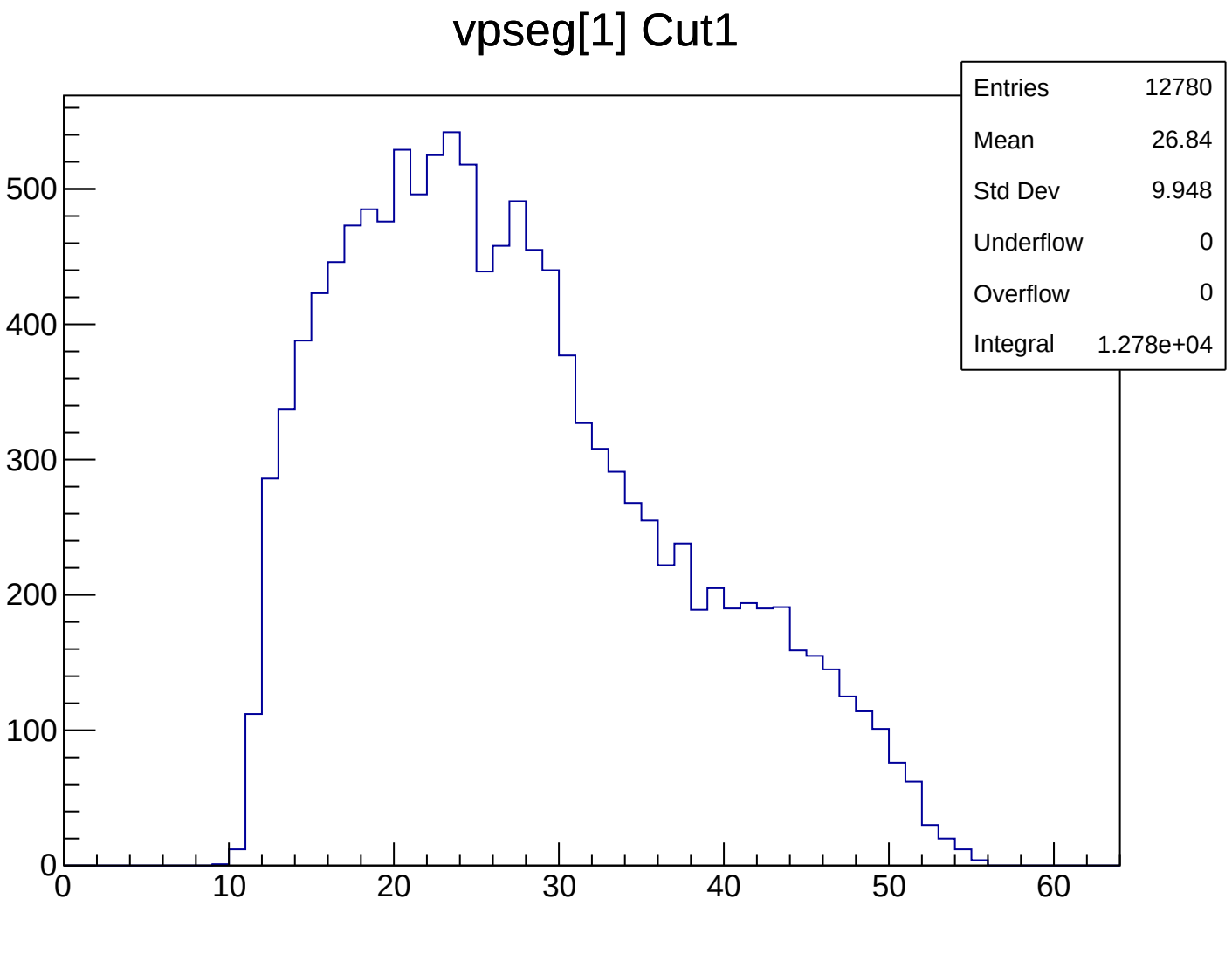

m2 Cut1
Entries 12780
Mean 0.5368
Std Dev 0.415
Underflow 133
Overflow 332
Integral 1.232e+04
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

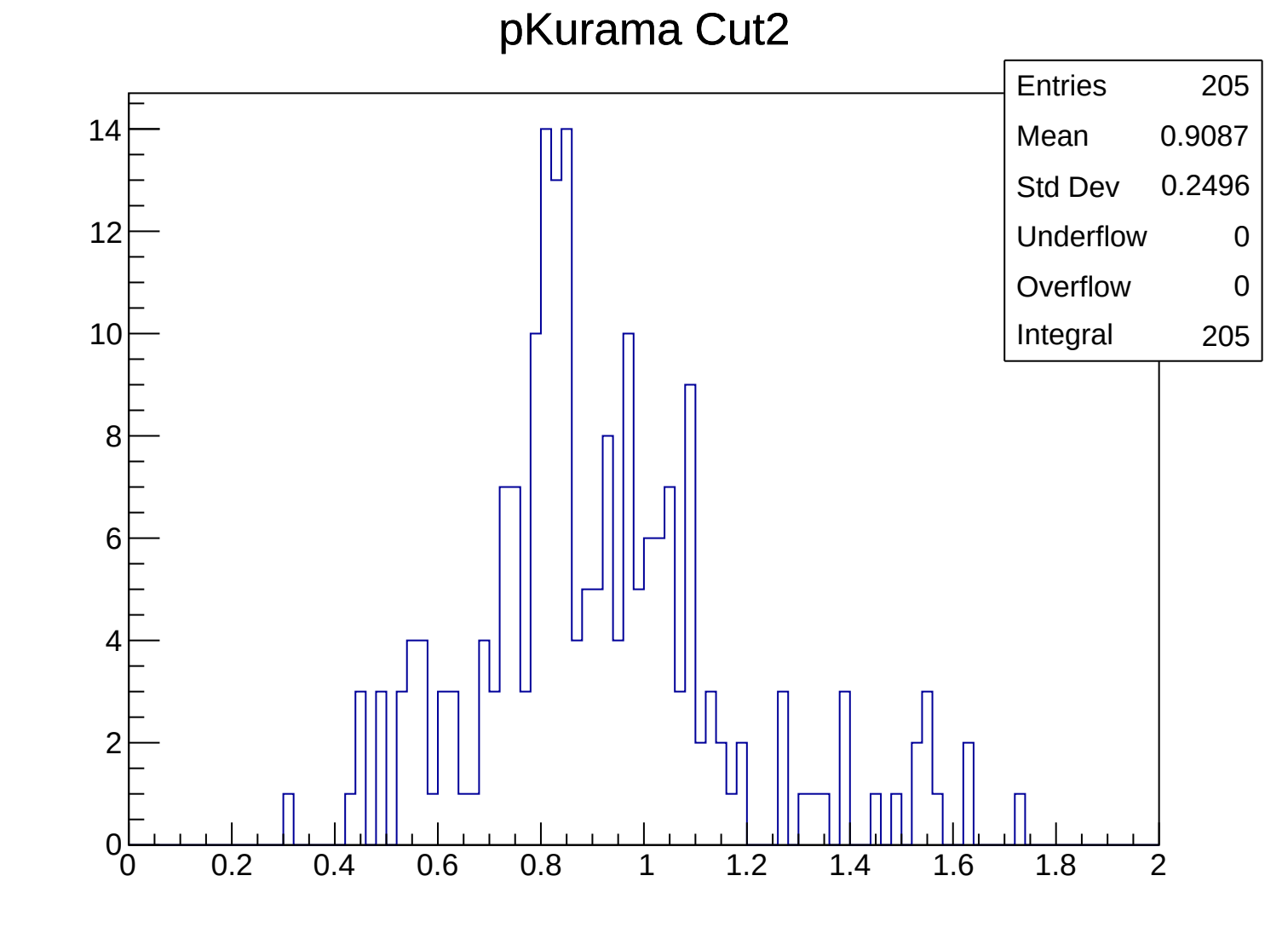

chisqrKurama Cut1
Entries 12780
Mean 4.354
Std Dev 2.357
Underflow 0
Overflow 0
Integral 1.278e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

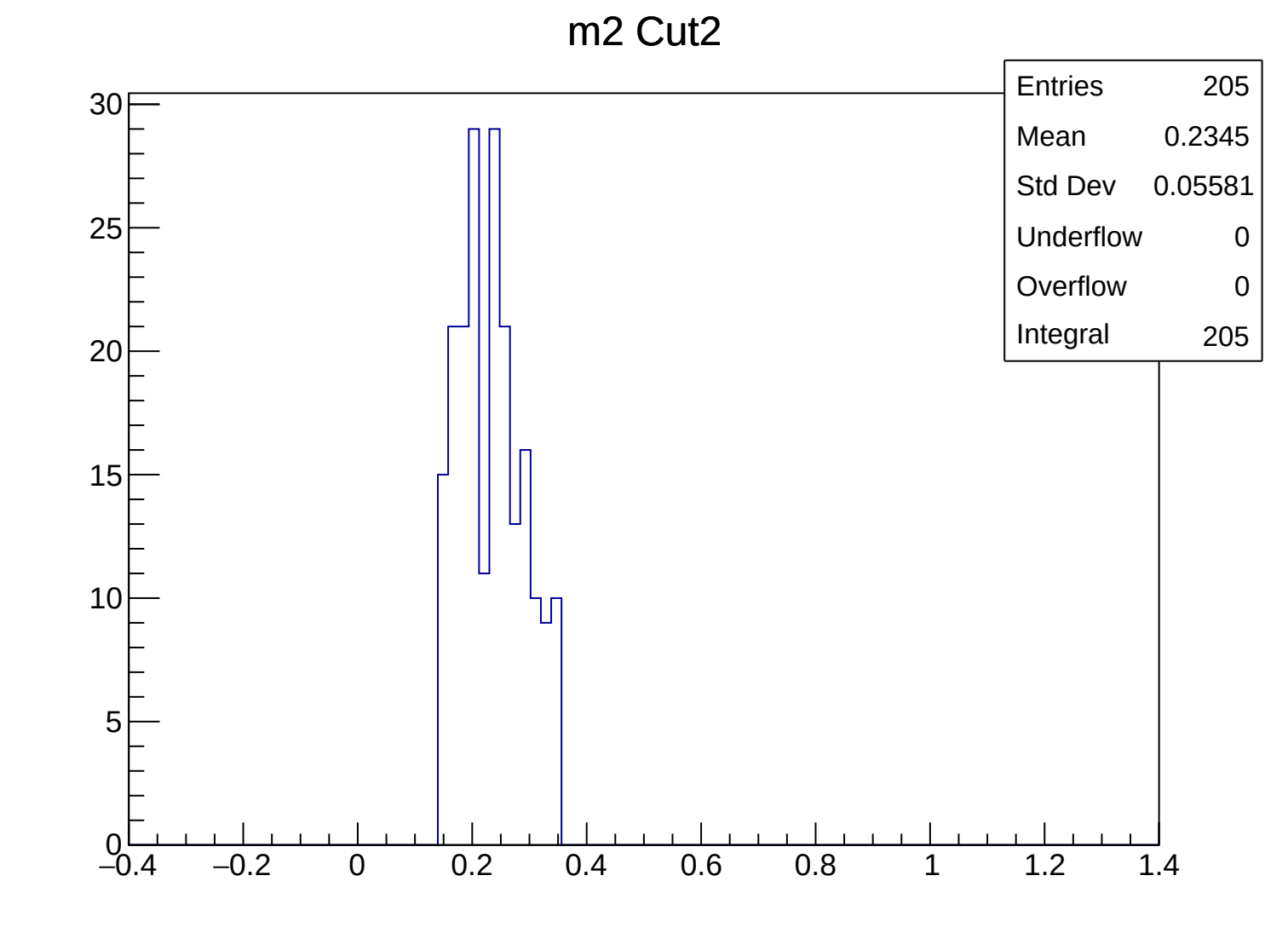

qKurama Cut1
Entries 12780
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.278e+04
12000
10000
8000
6000
4000
2000
0
−3
−2
−1
0
1
2
3

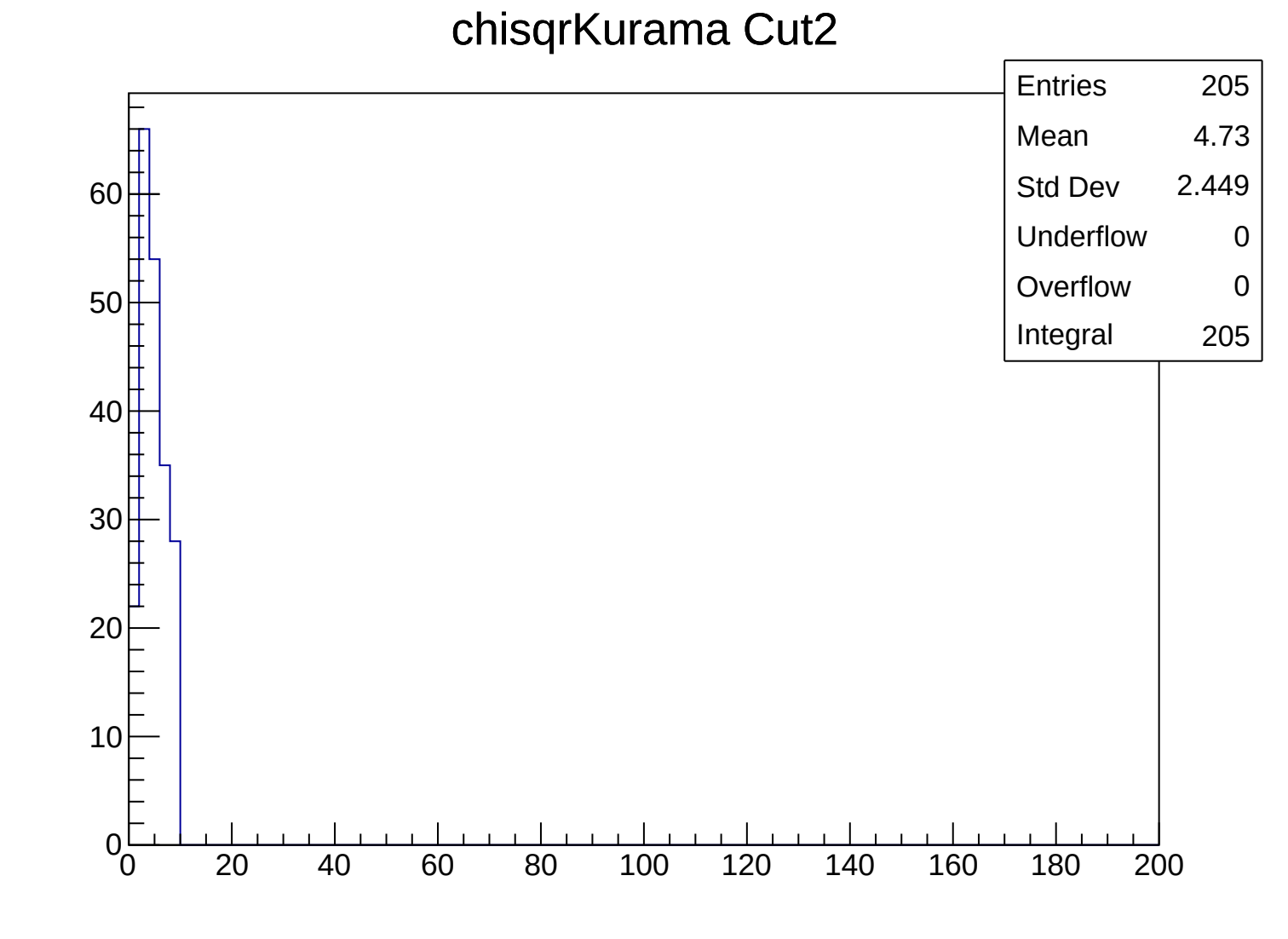

vpx[1] Cut1
Entries 12780
Mean –41.41
Std Dev 104.4
Underflow 0
Overflow 0
Integral 1.278e+04
220
200
180
160
140
120
100
80
60
40
20
0
–400
–300
–200
–100
0
100
200
300
400

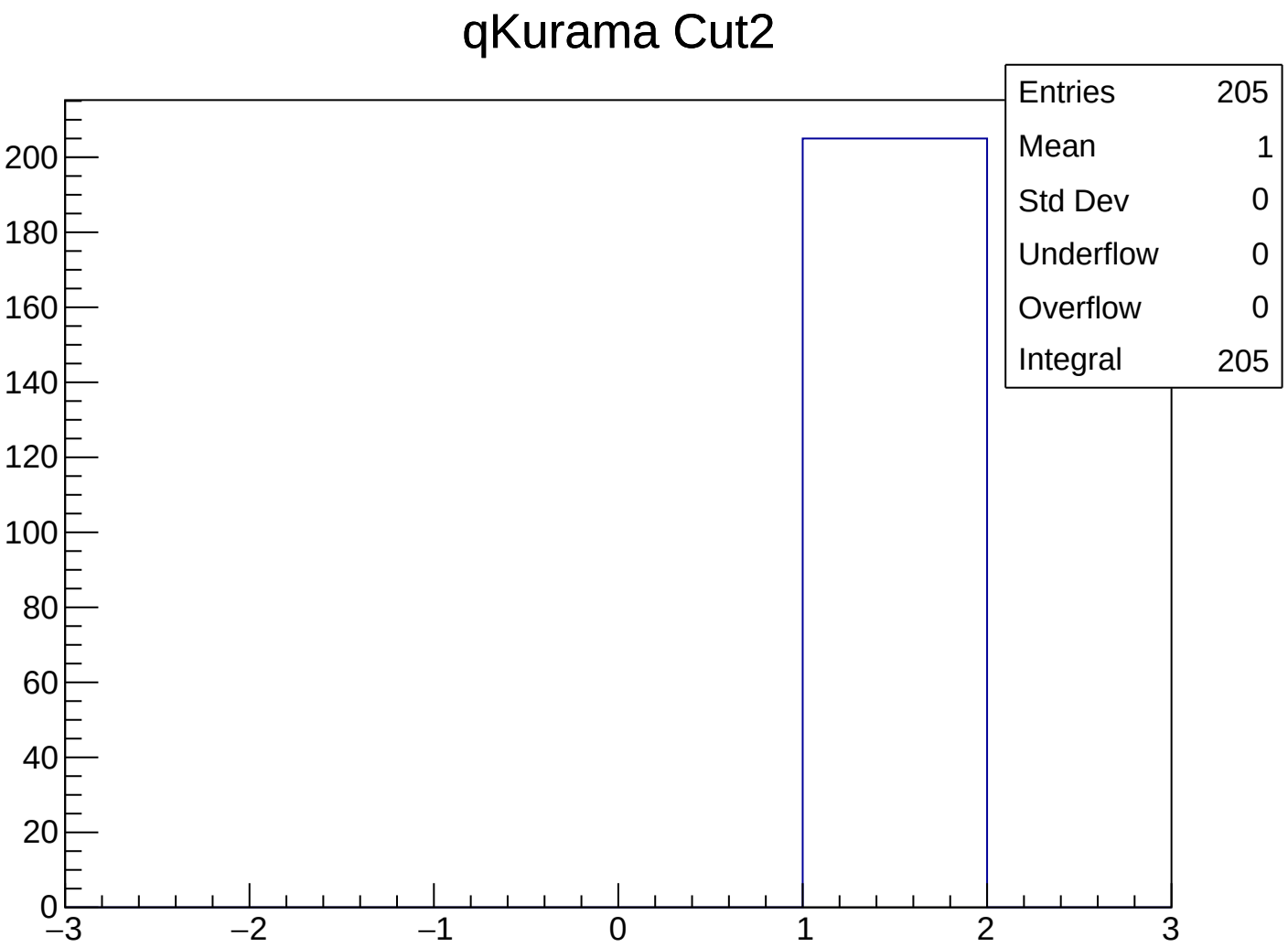

vpy[1] Cut1
Entries 12780
Mean –15.64
Std Dev 96.9
Underflow 0
Overflow 0
Integral 1.278e+04
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

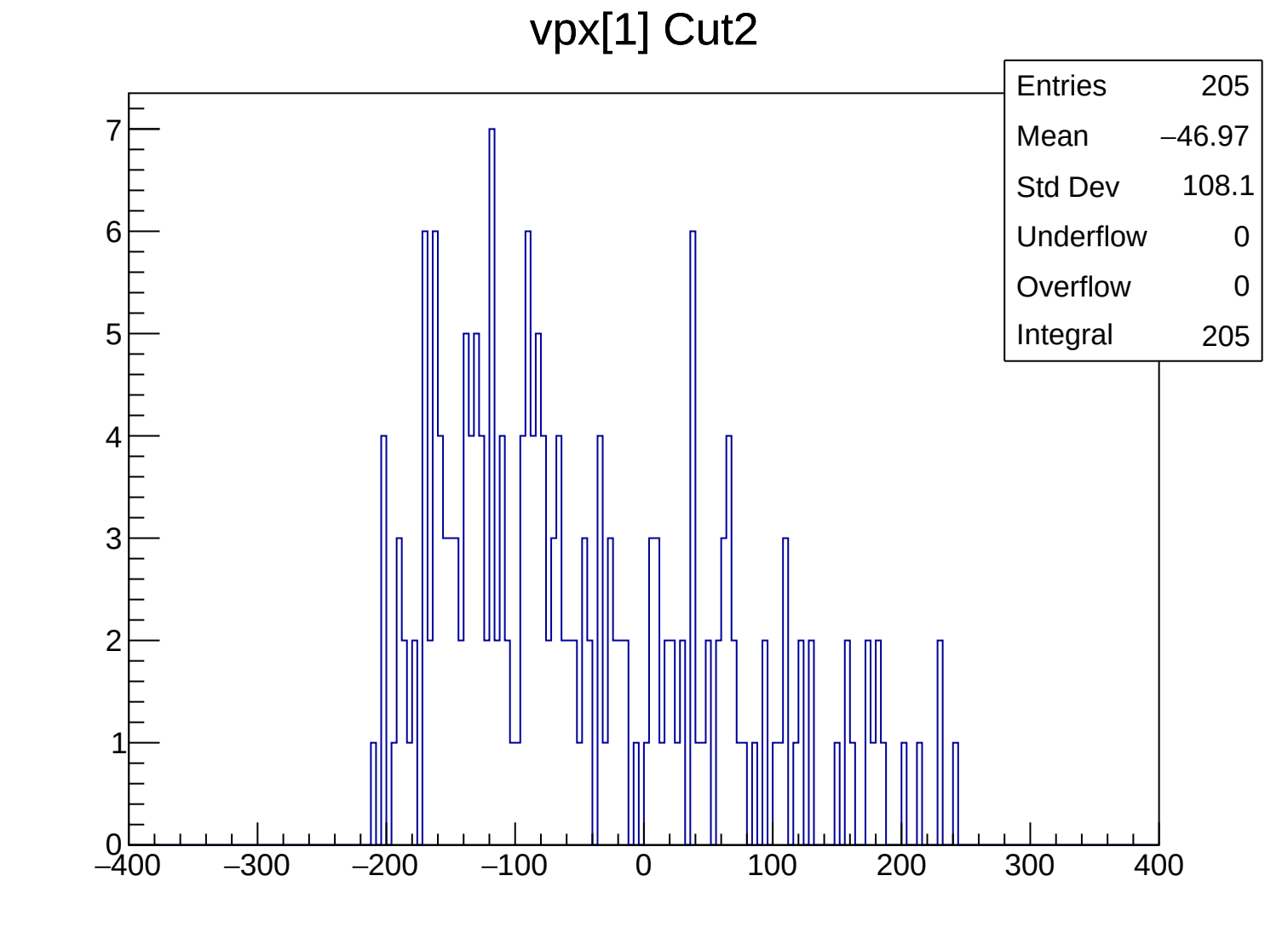

vpseg[1] Cut1
Entries 12780
Mean 26.84
Std Dev 9.948
Underflow 0
Overflow 0
Integral 1.278e+04
500
400
300
200
100
0
0
10
20
30
40
50
60

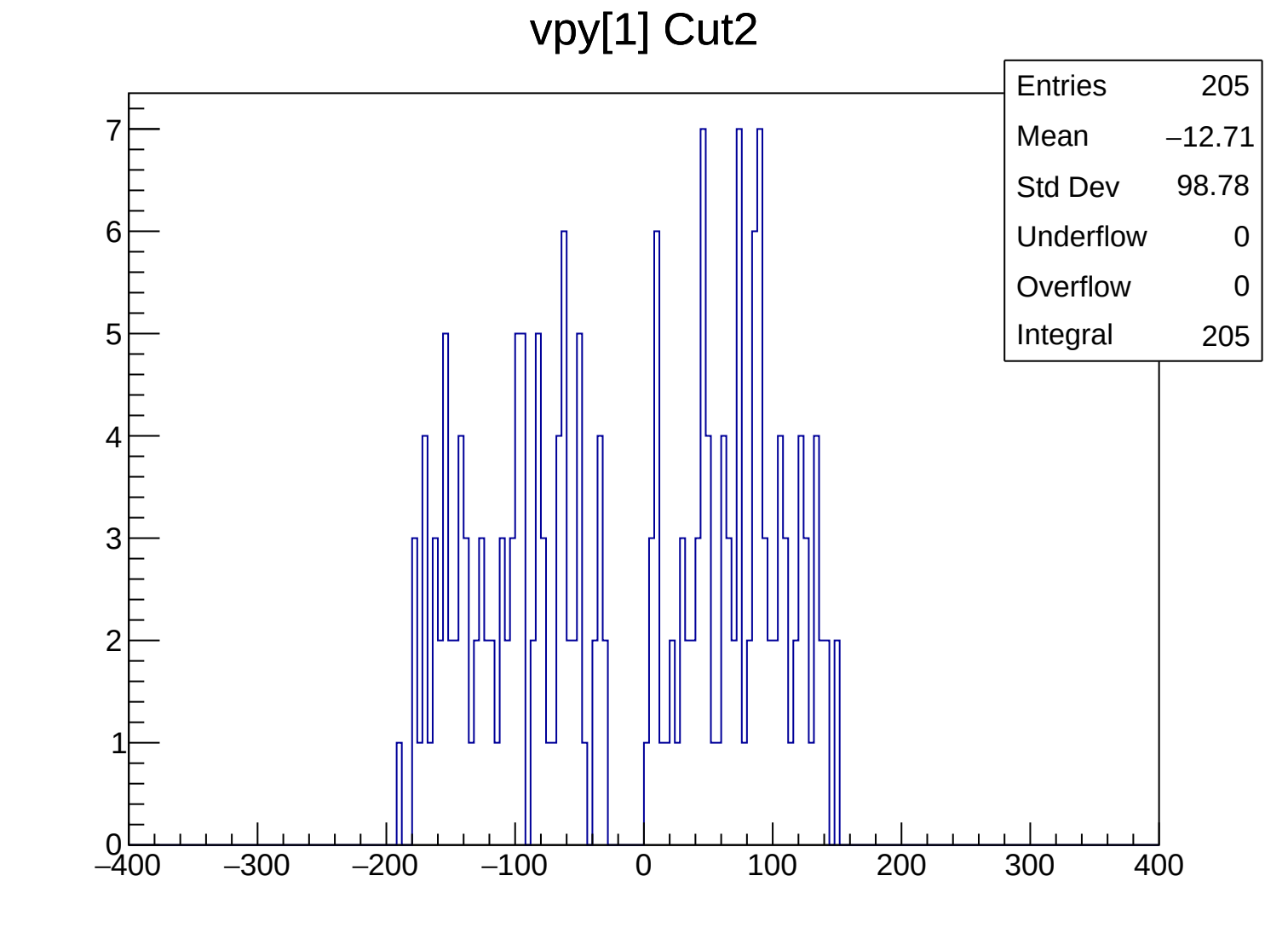

pKurama Cut2
Entries 205
Mean 0.9087
Std Dev 0.2496
Underflow 0
Overflow 0
Integral 205
0
2
4
6
8
10
12
14
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

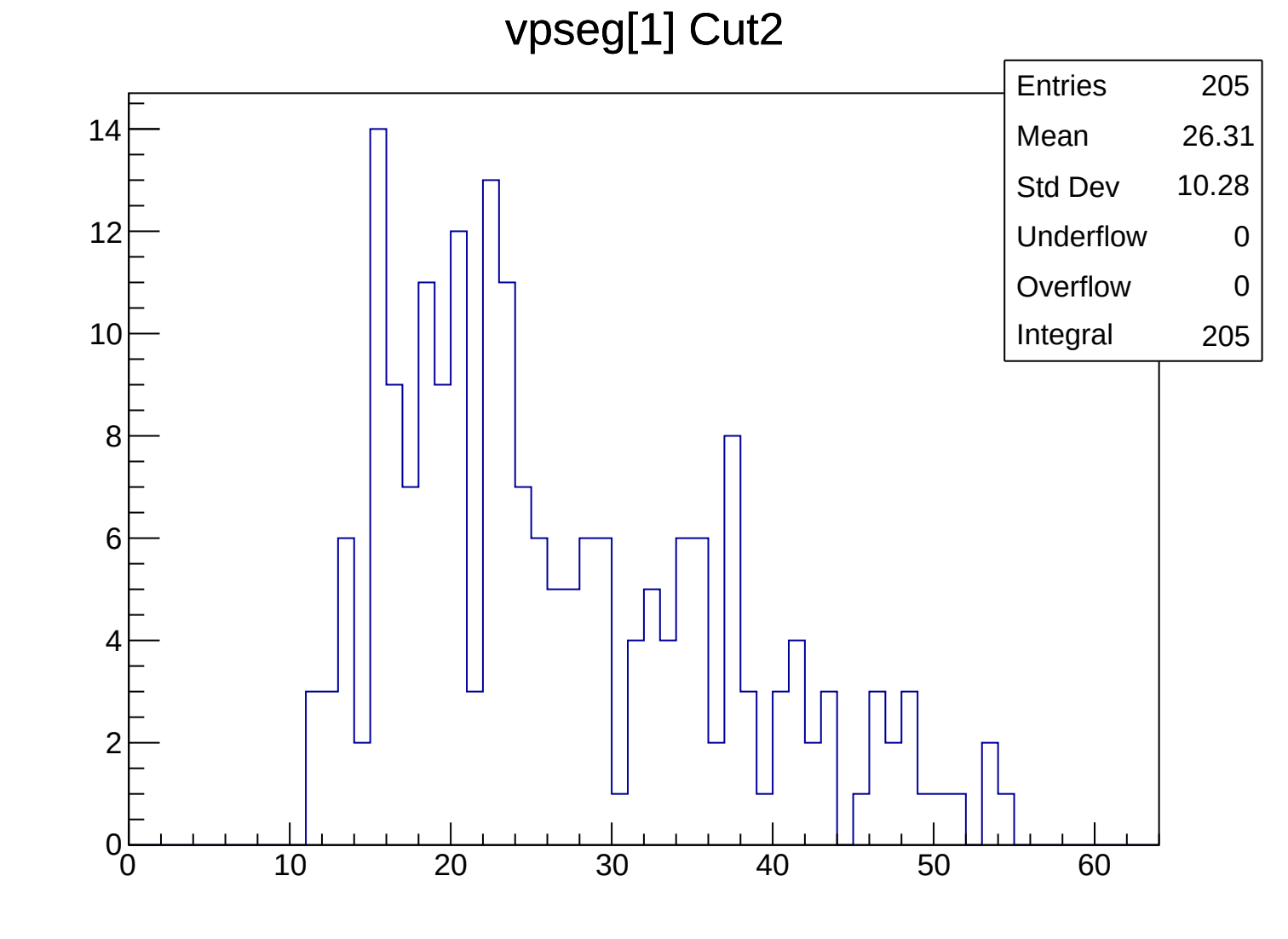

m2 Cut2
Entries 205
Mean 0.2345
Std Dev 0.05581
Underflow 0
Overflow 0
Integral 205
30
25
20
15
10
5
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

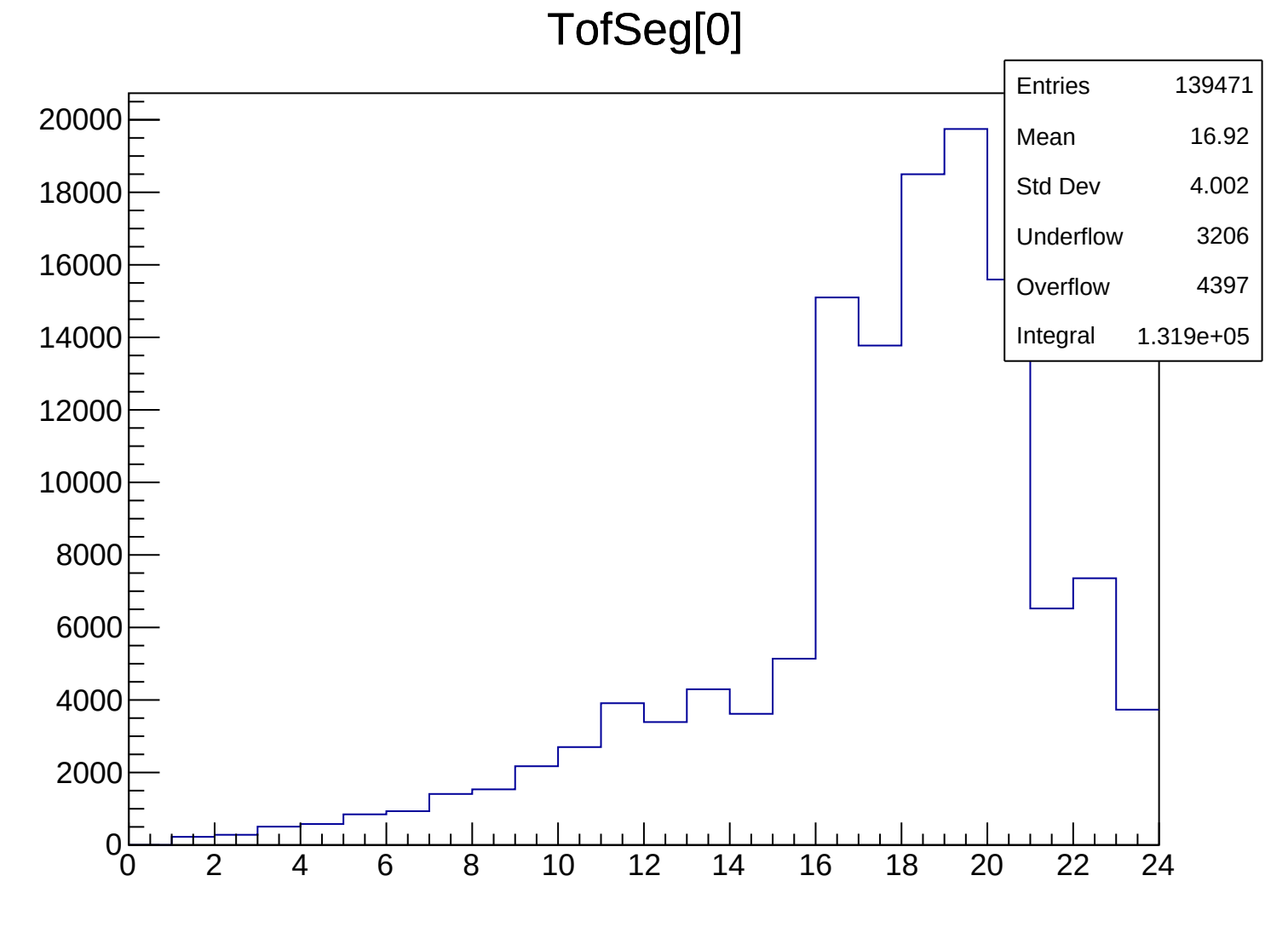

chisqrKurama Cut2
Entries 205
Mean 4.73
Std Dev 2.449
Underflow 0
Overflow 0
Integral 205
0
10
20
30
40
50
60
0
20
40
60
80
100
120
140
160
180
200

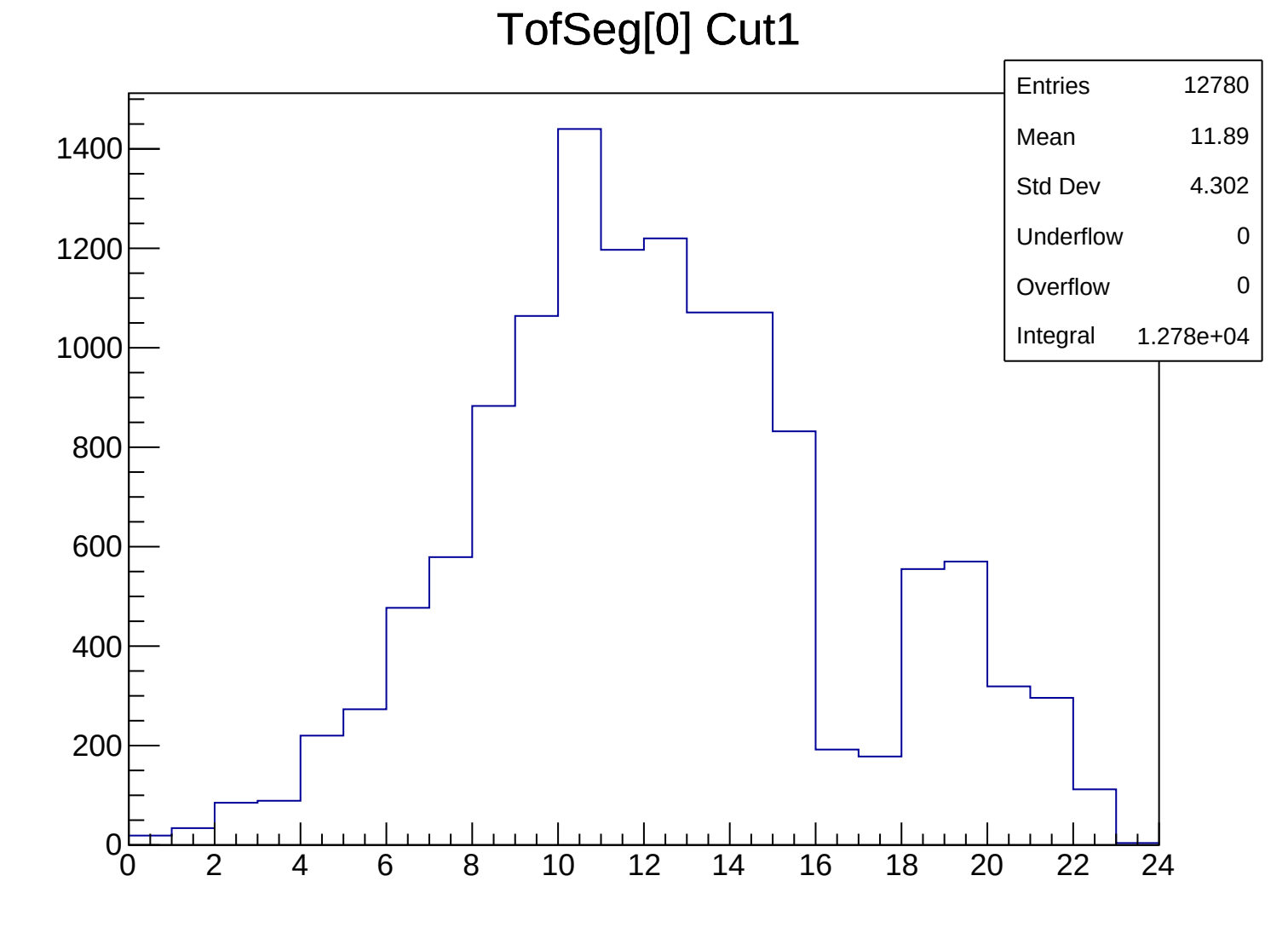

qKurama Cut2
Entries 205
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 205
200
180
160
140
120
100
80
60
40
20
0
−3
−2
−1
0
1
2
3

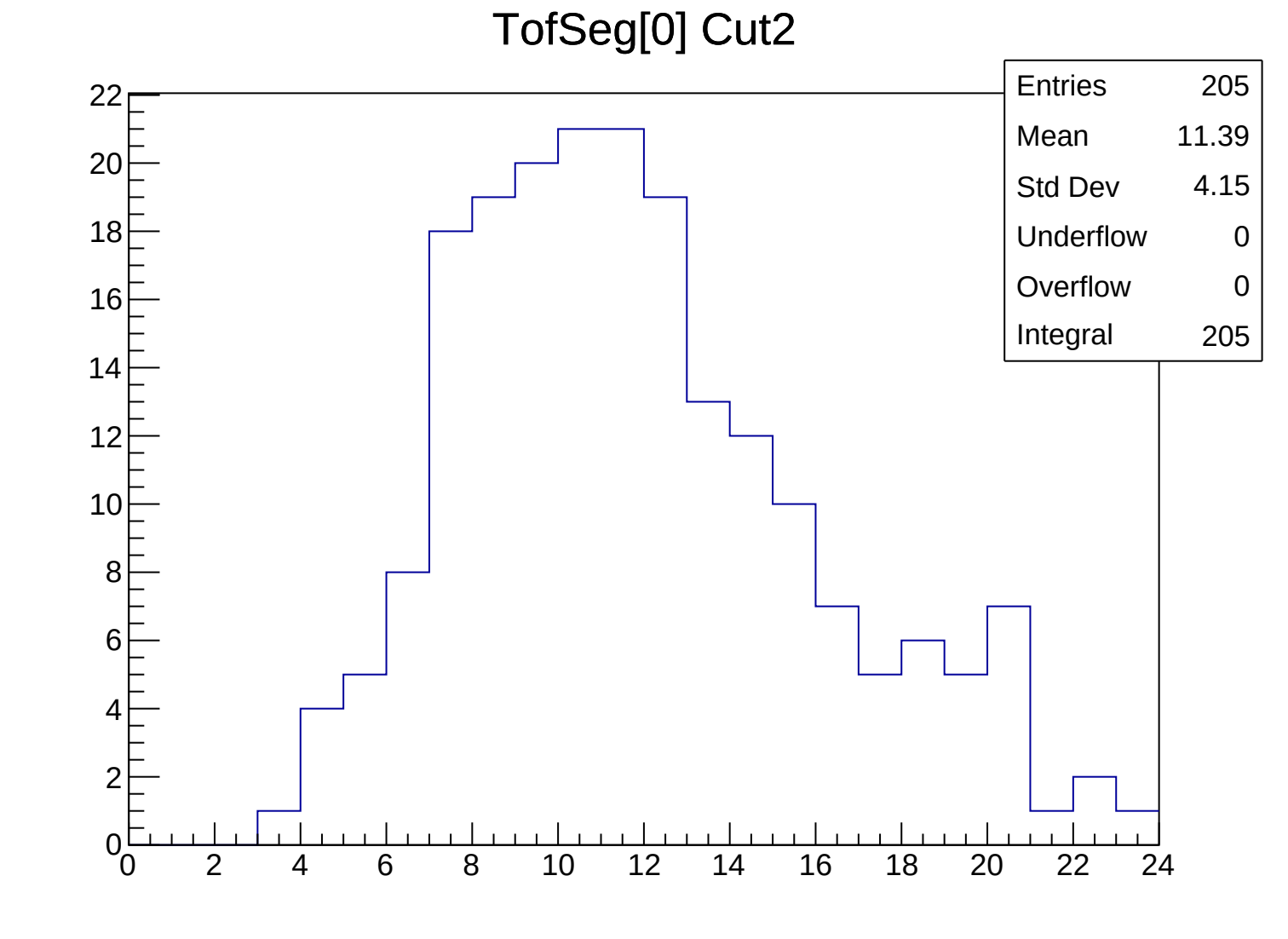

vpx[1] Cut2
Entries 205
Mean –46.97
Std Dev 108.1
Underflow 0
Overflow 0
Integral 205
0
1
2
3
4
5
6
7
–400
–300
–200
–100
0
100
200
300
400

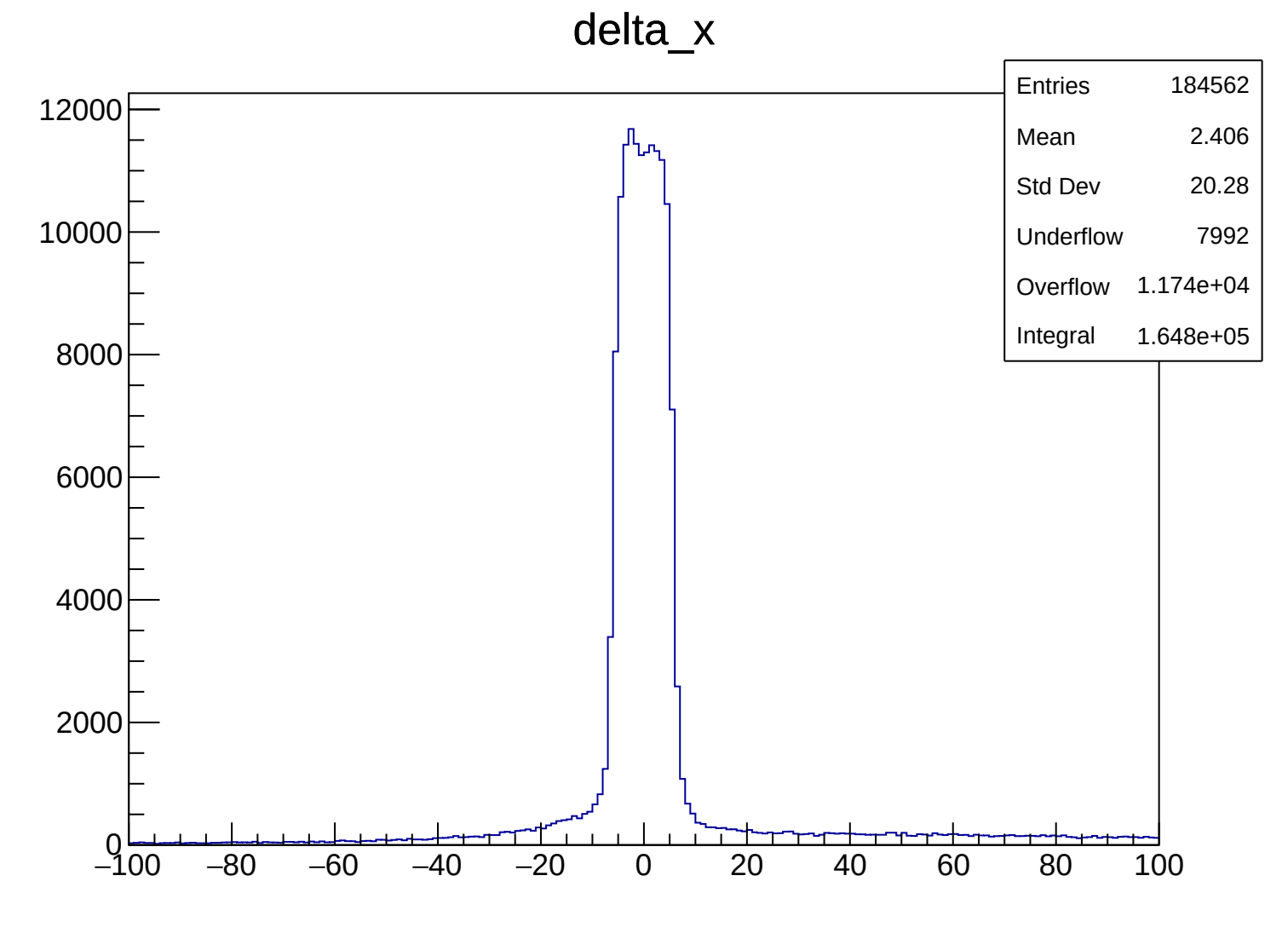

vpy[1] Cut2
Entries 205
Mean −12.71
Std Dev 98.78
Underflow 0
Overflow 0
Integral 205
0
1
2
3
4
5
6
7
−400
−300
−200
−100
0
100
200
300
400

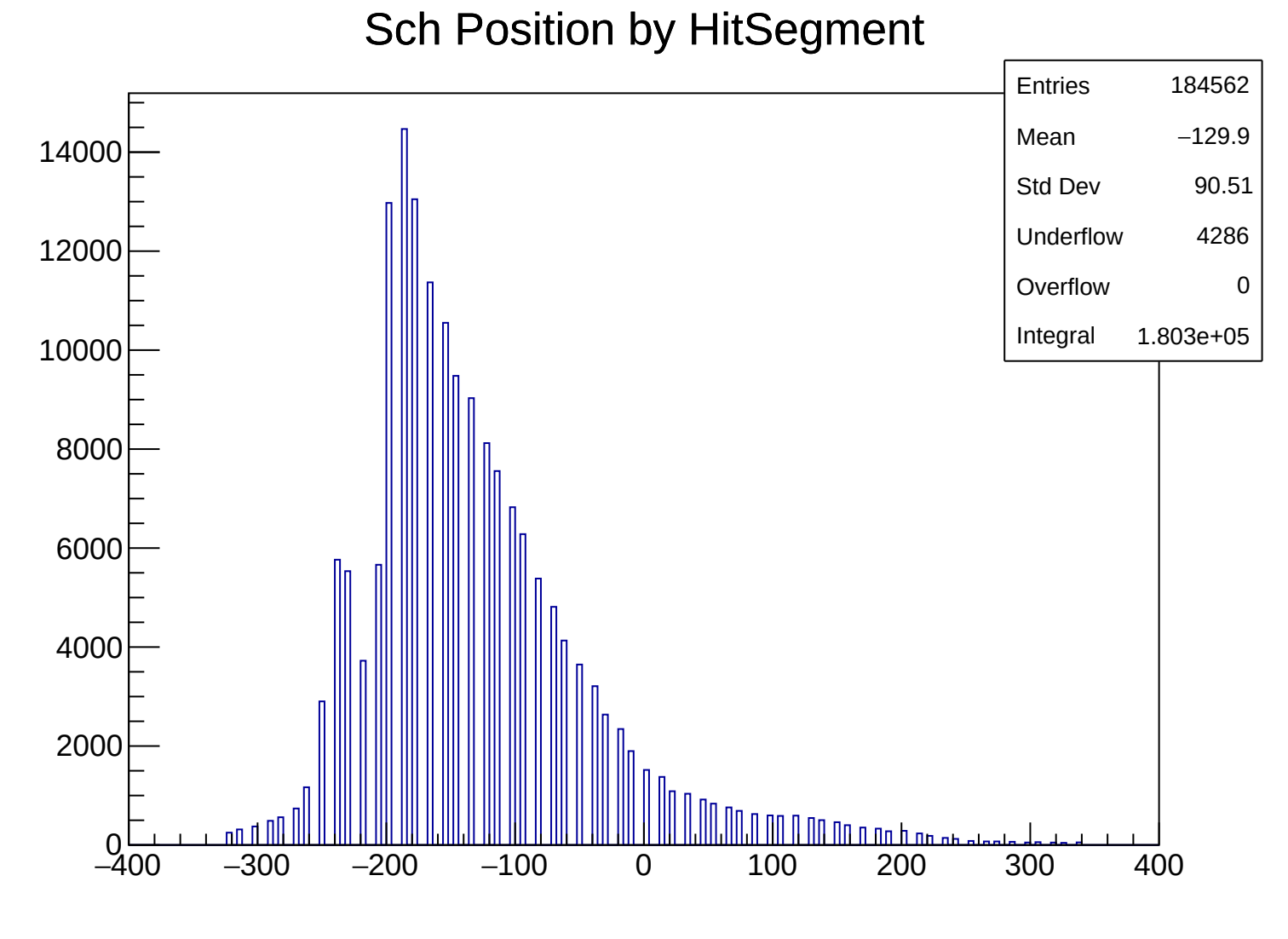

vpseg[1] Cut2
Entries 205
Mean 26.31
Std Dev 10.28
Underflow 0
Overflow 0
Integral 205
0
2
4
6
8
10
12
14
0
10
20
30
40
50
60

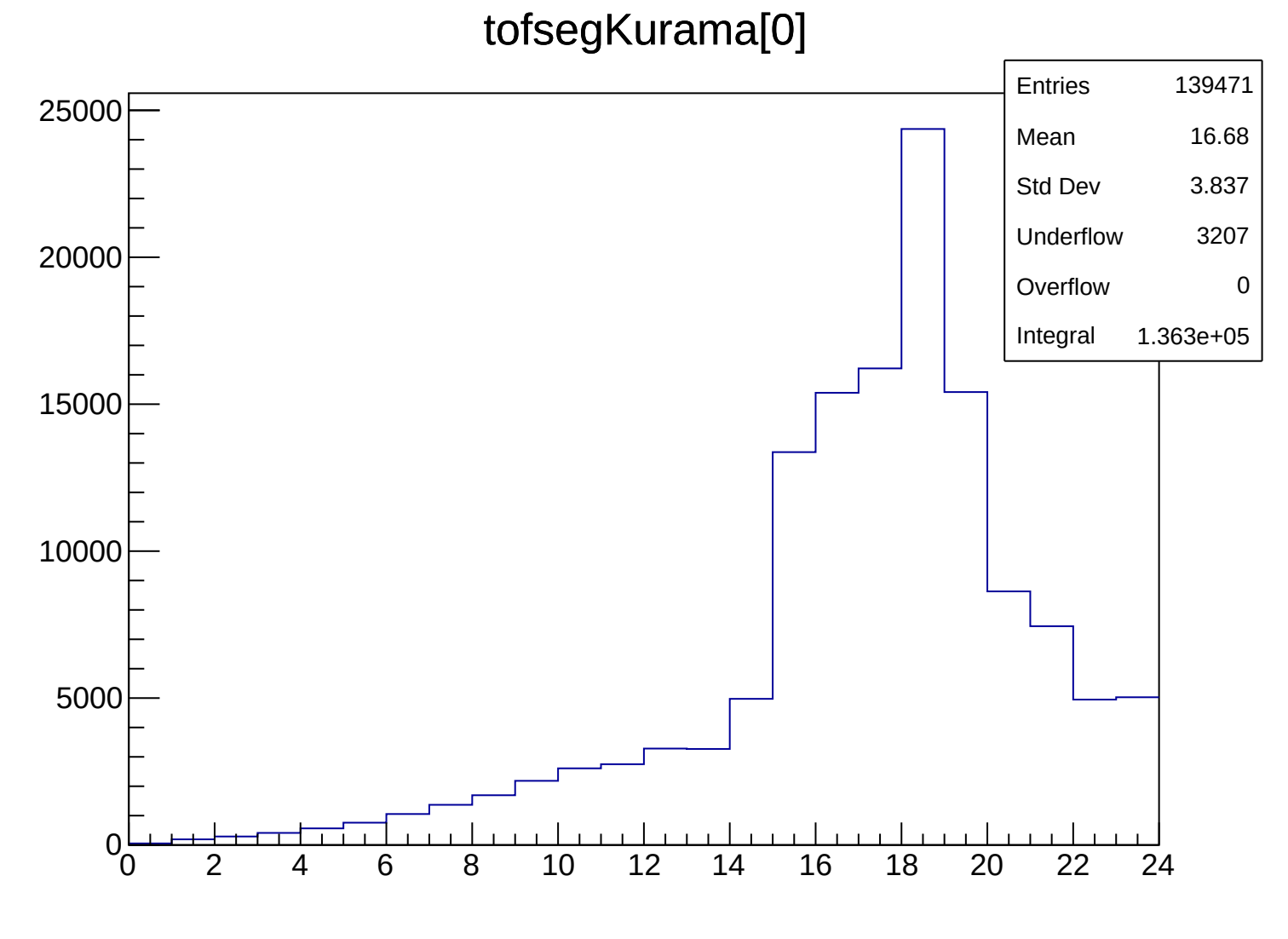

TofSeg[0]
Entries 139471
Mean 16.92
Std Dev 4.002
Underflow 3206
Overflow 4397
Integral 1.319e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

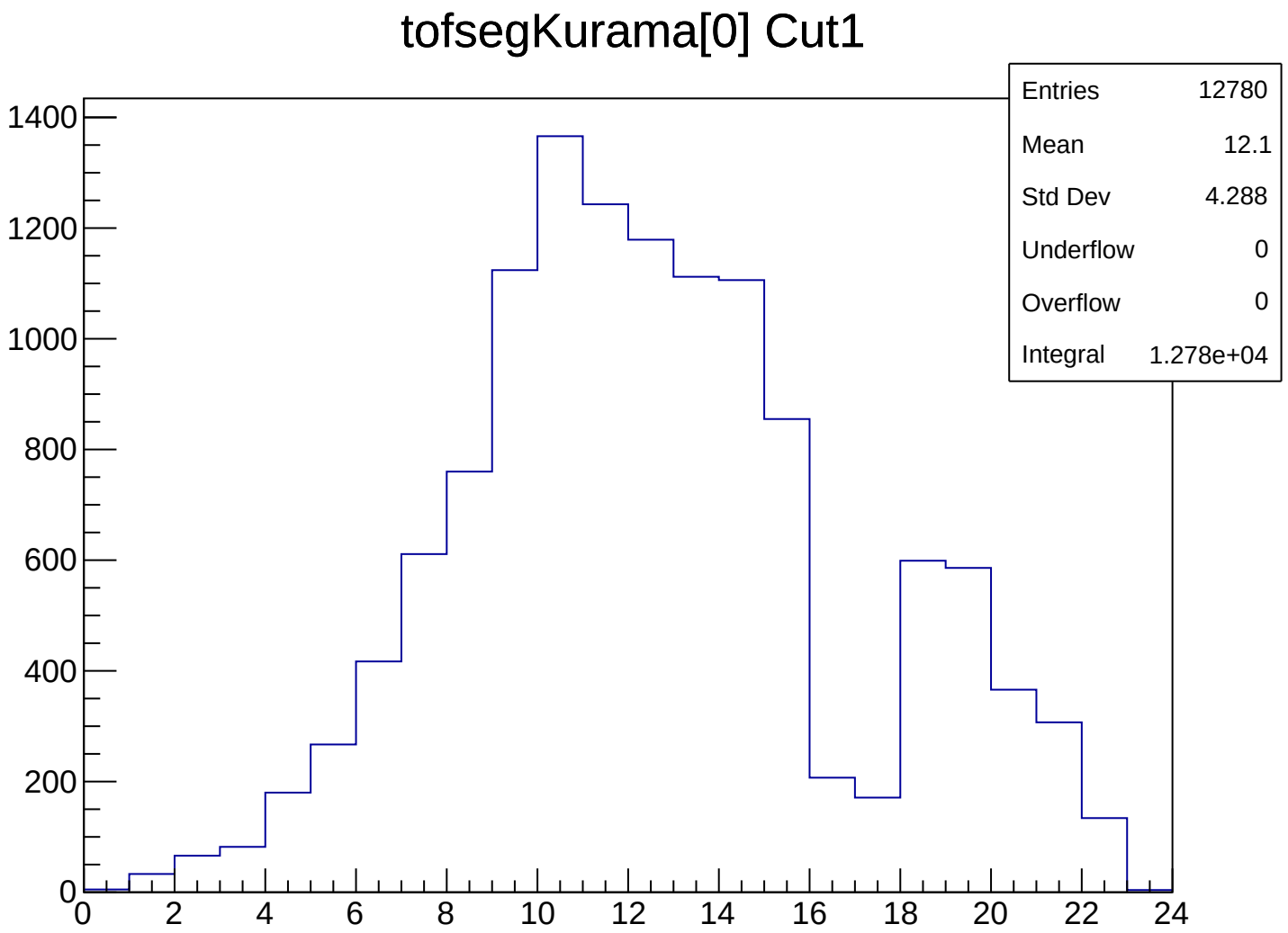

TofSeg[0] Cut1
Entries 12780
Mean 11.89
Std Dev 4.302
Underflow 0
Overflow 0
Integral 1.278e+04
0
200
400
600
800
1000
1200
1400
0
2
4
6
8
10
12
14
16
18
20
22
24

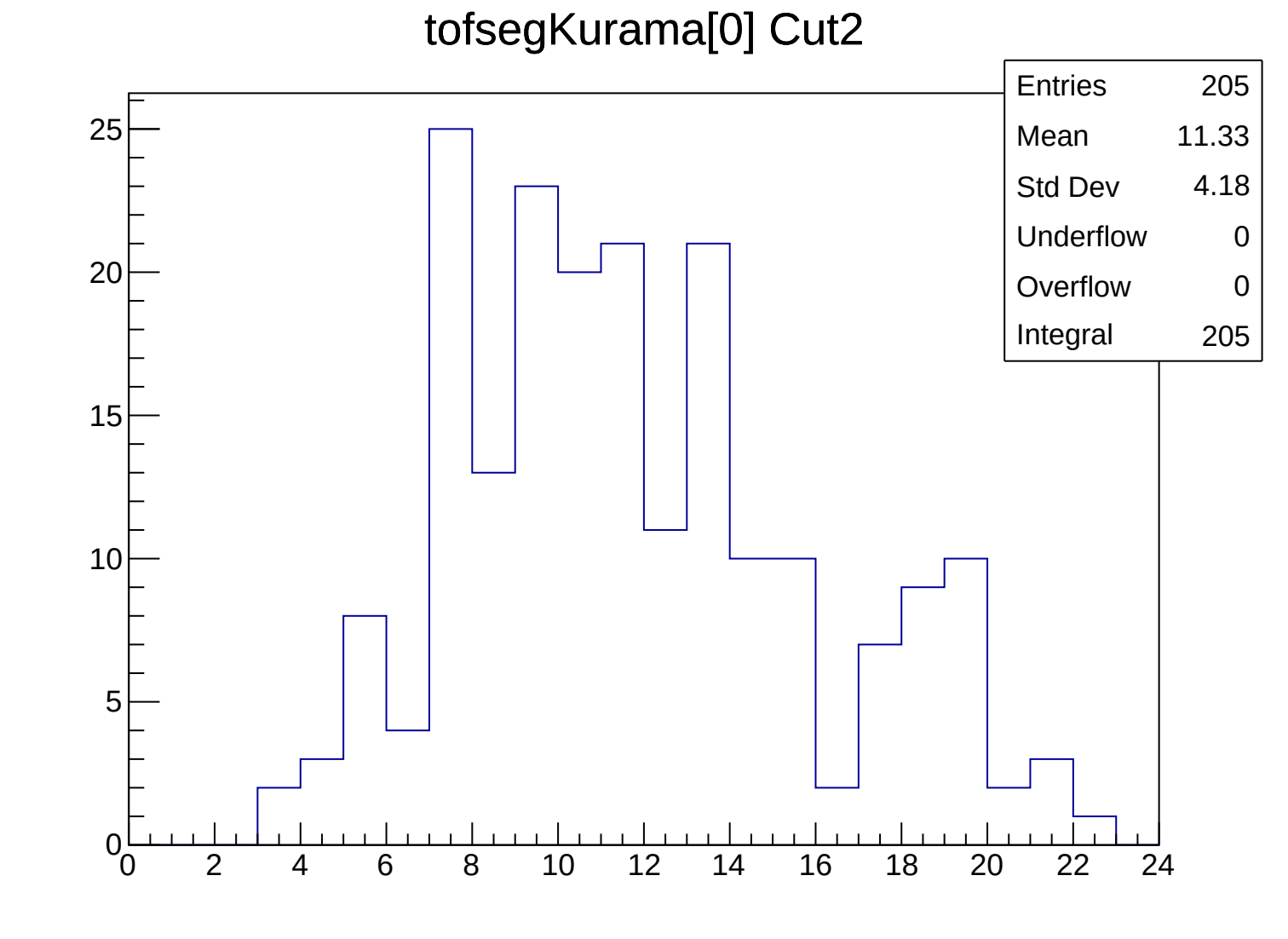

TofSeg[0] Cut2
Entries 205
Mean 11.39
Std Dev 4.15
Underflow 0
Overflow 0
Integral 205
0
2
4
6
8
10
12
14
16
18
20
22
24

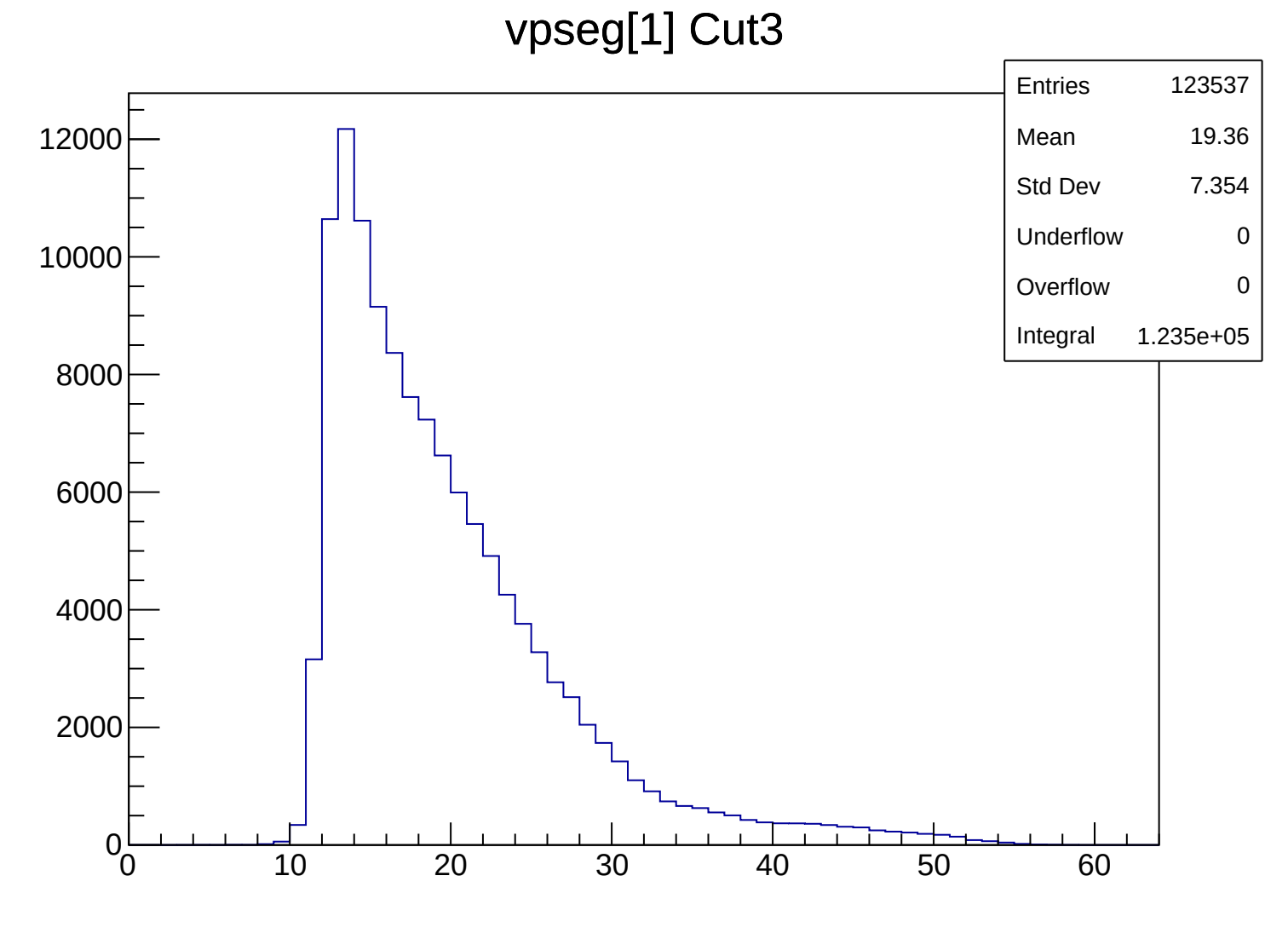

delta_x
Entries 184562
Mean 2.406
Std Dev 20.28
Underflow 7992
Overflow 1.174e+04
Integral 1.648e+05
12000
10000
8000
6000
4000
2000
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

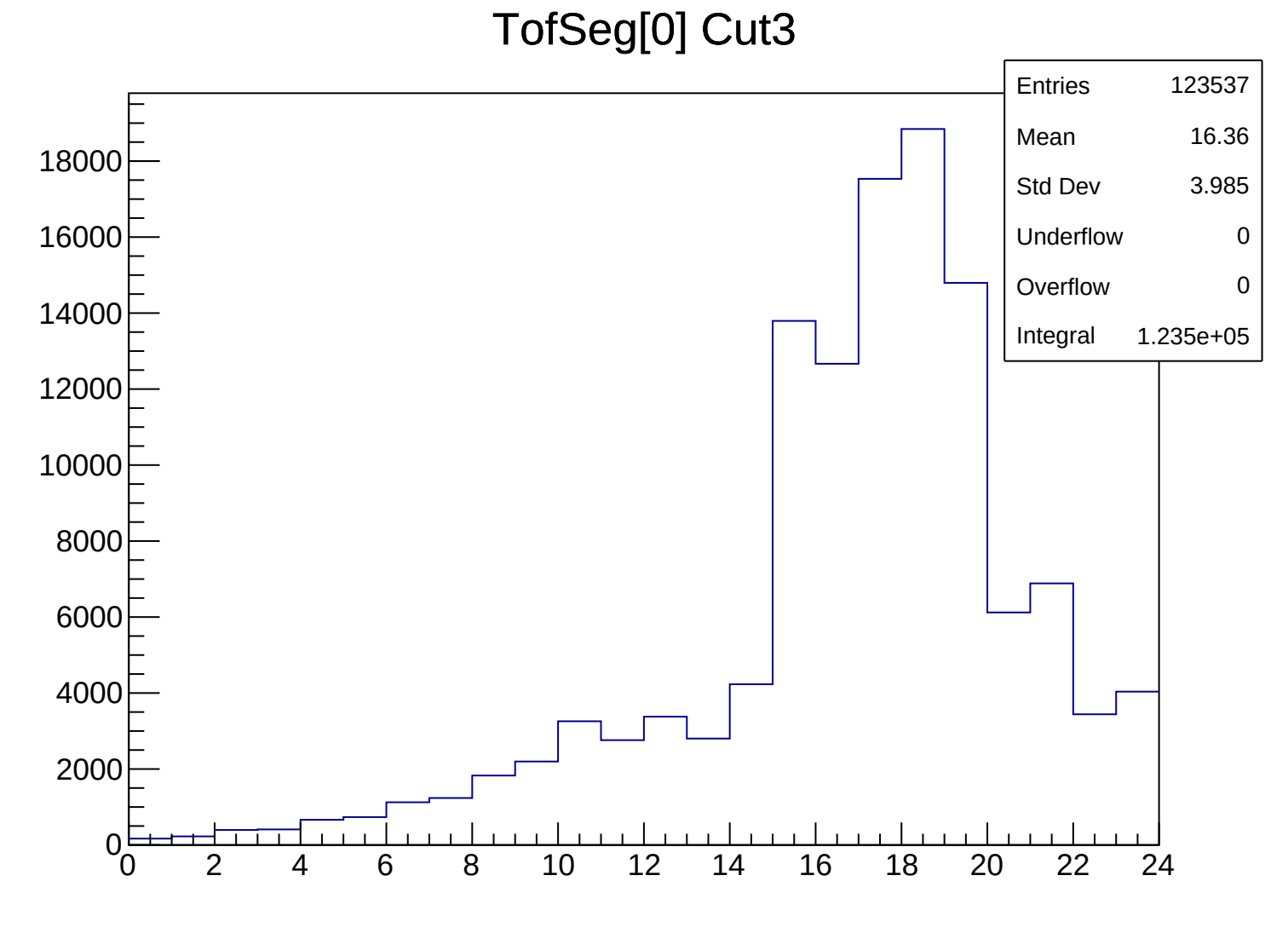

Sch Position by HitSegment
Entries 184562
Mean −129.9
Std Dev 90.51
Underflow 4286
Overflow 0
Integral 1.803e+05
14000
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

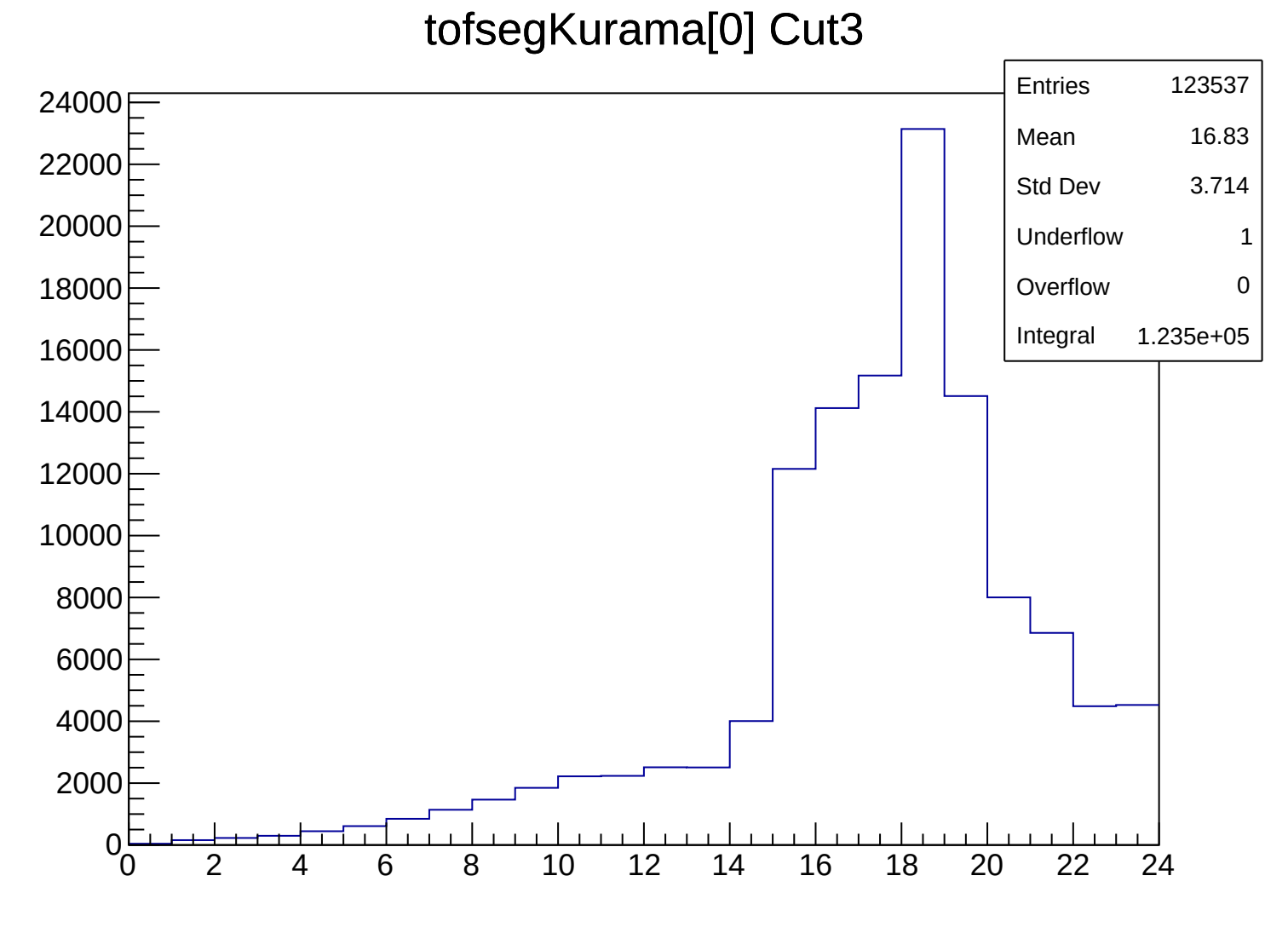

tofsegKurama[0]
Entries 139471
Mean 16.68
Std Dev 3.837
Underflow 3207
Overflow 0
Integral 1.363e+05
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

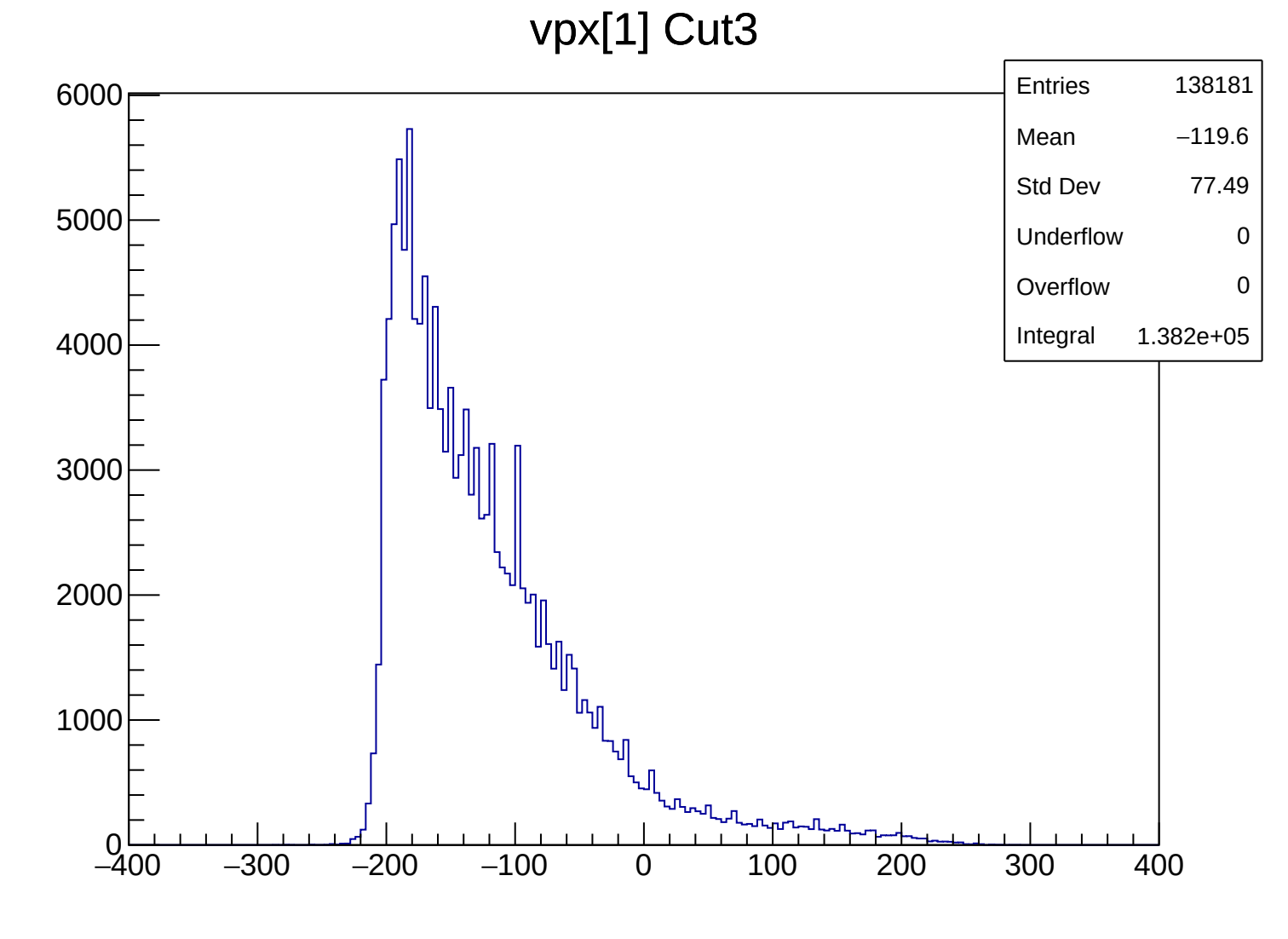

tofsegKurama[0] Cut1
Entries 12780
Mean 12.1
Std Dev 4.288
Underflow 0
Overflow 0
Integral 1.278e+04
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20
22
24

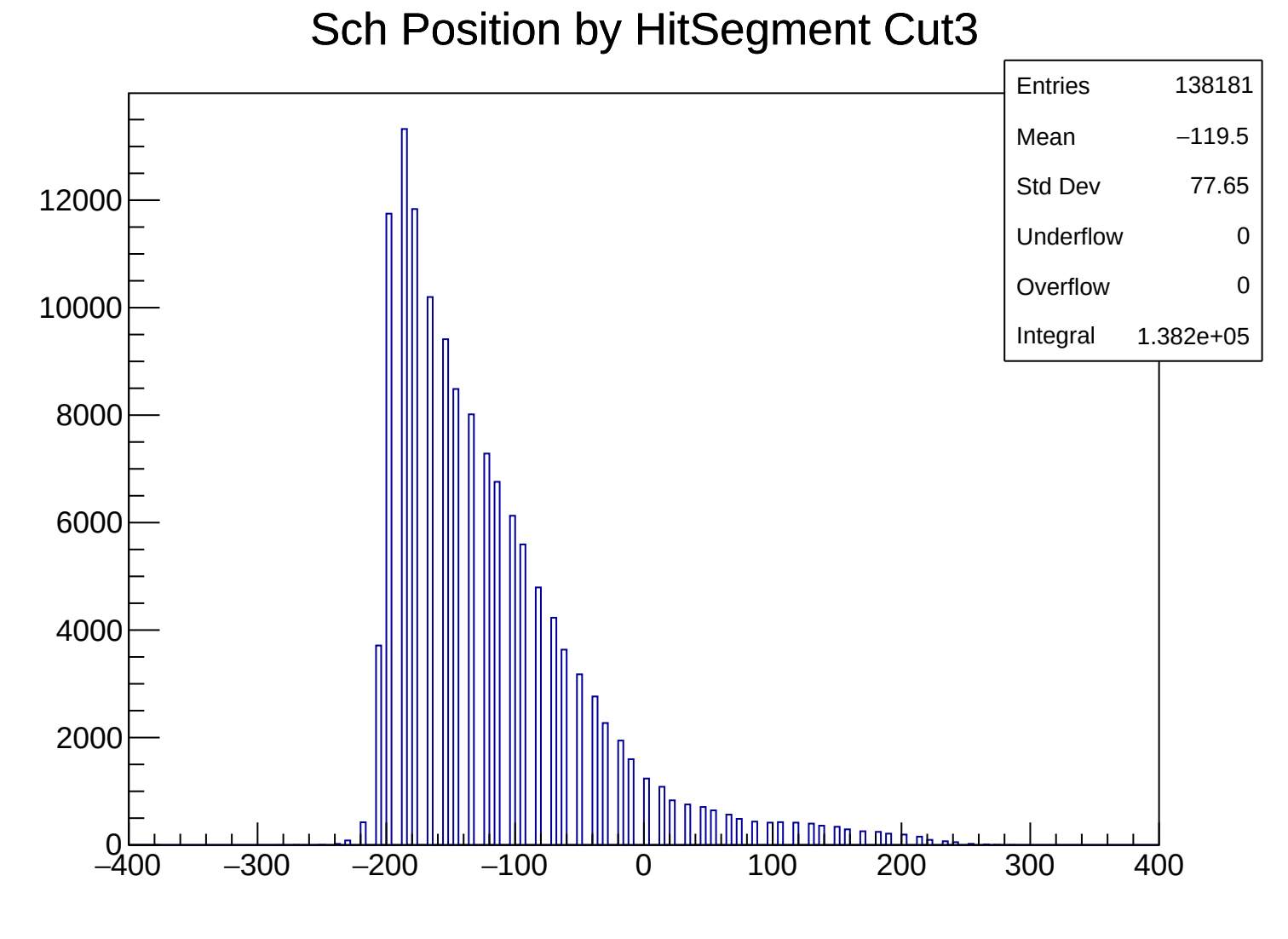

tofsegKurama[0] Cut2
Entries 205
Mean 11.33
Std Dev 4.18
Underflow 0
Overflow 0
Integral 205
0
5
10
15
20
25
0
2
4
6
8
10
12
14
16
18
20
22
24

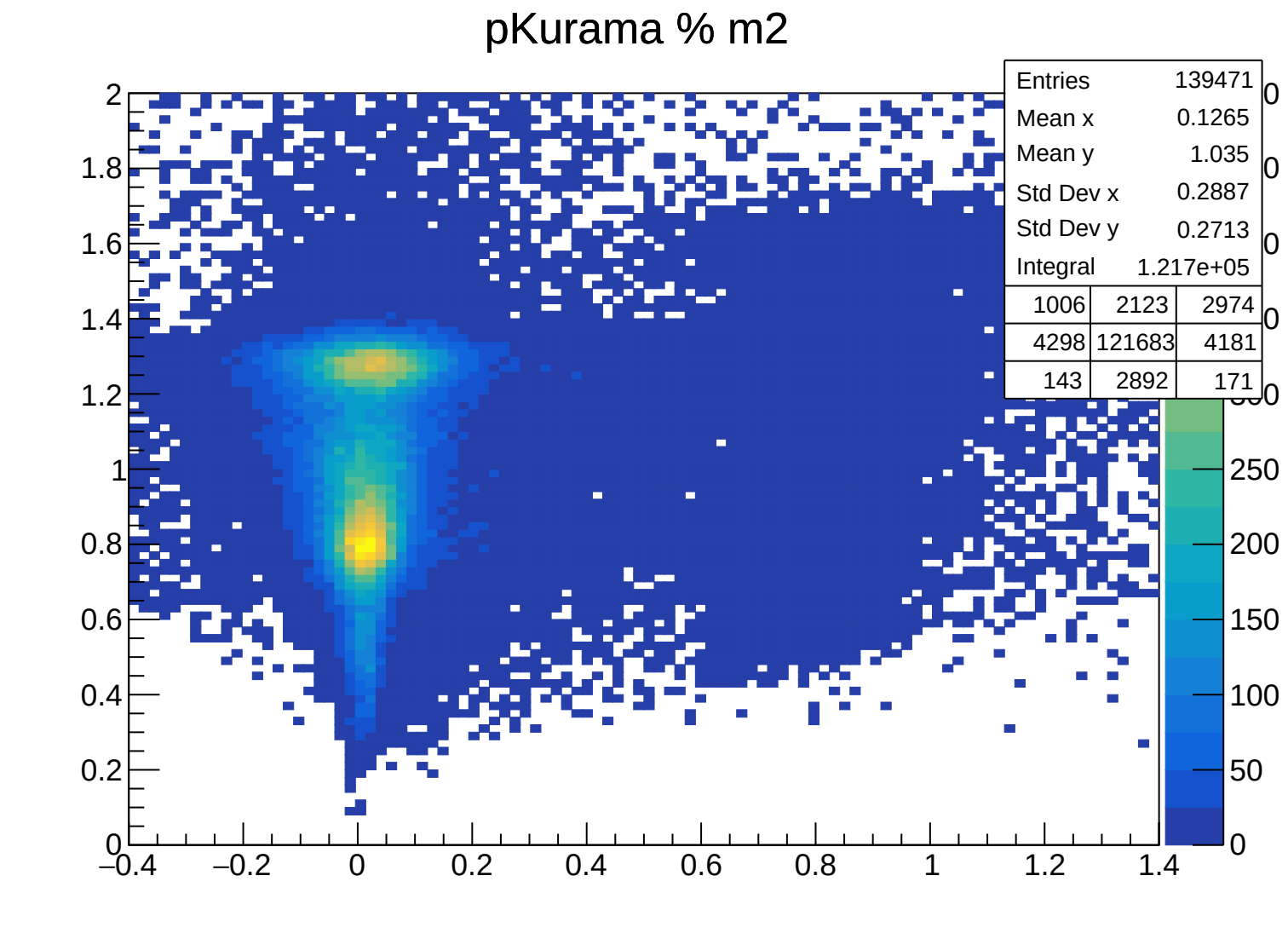

vpseg[1] Cut3
Entries 123537
Mean 19.36
Std Dev 7.354
Underflow 0
Overflow 0
Integral 1.235e+05
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

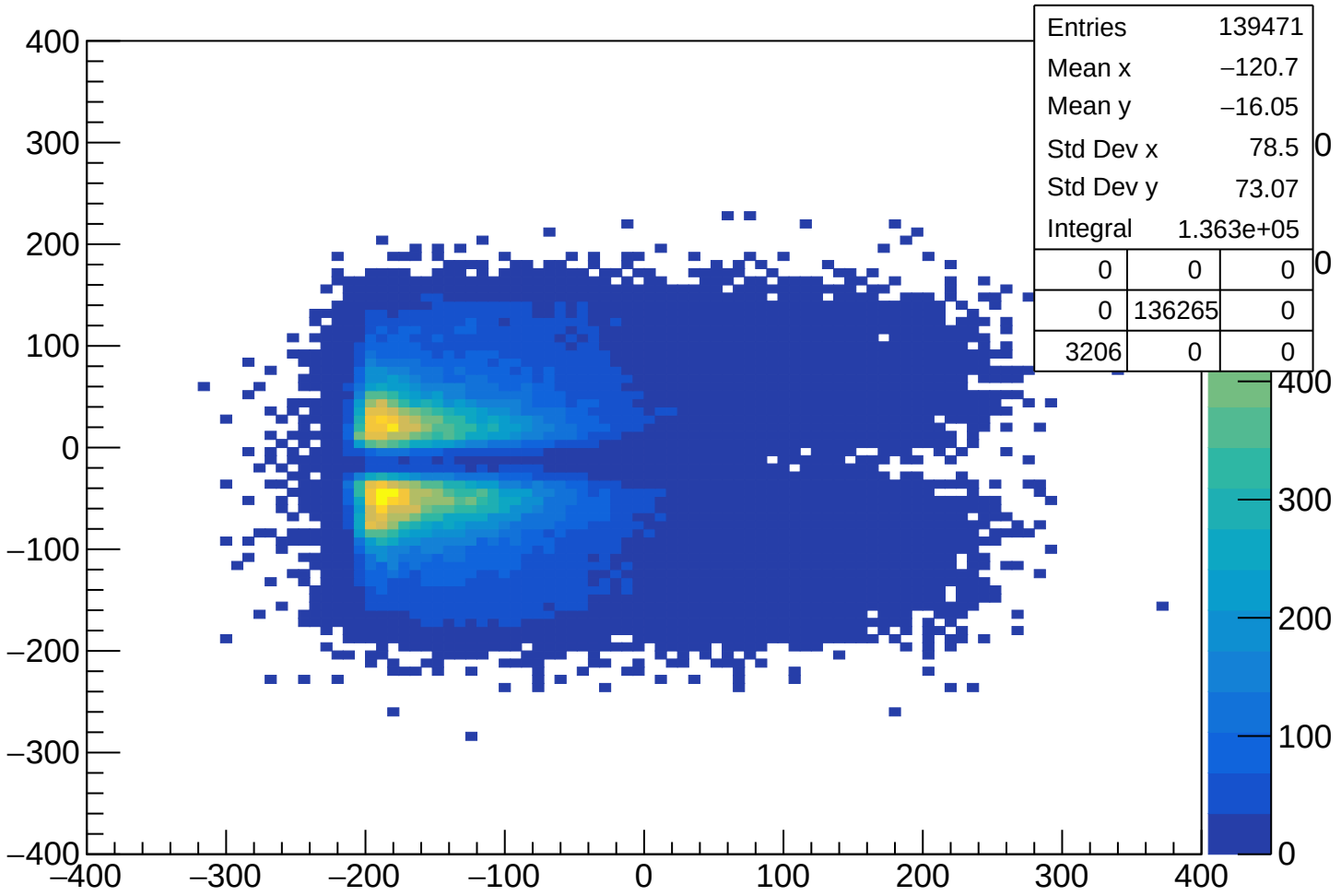

TofSeg[0] Cut3
Entries 123537
Mean 16.36
Std Dev 3.985
Underflow 0
Overflow 0
Integral 1.235e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

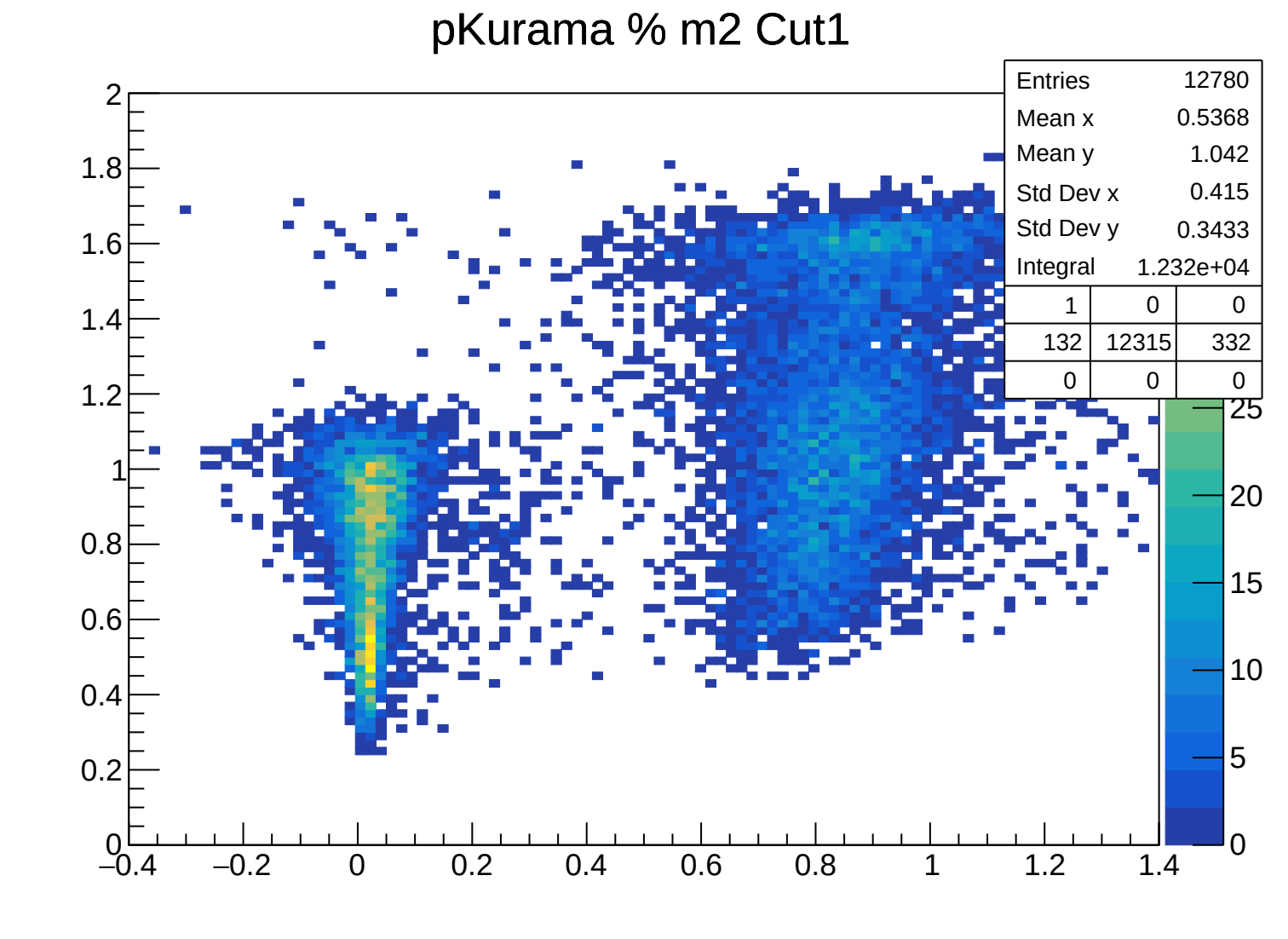

tofsegKurama[0] Cut3
Entries 123537
Mean 16.83
Std Dev 3.714
Underflow 1
Overflow 0
Integral 1.235e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

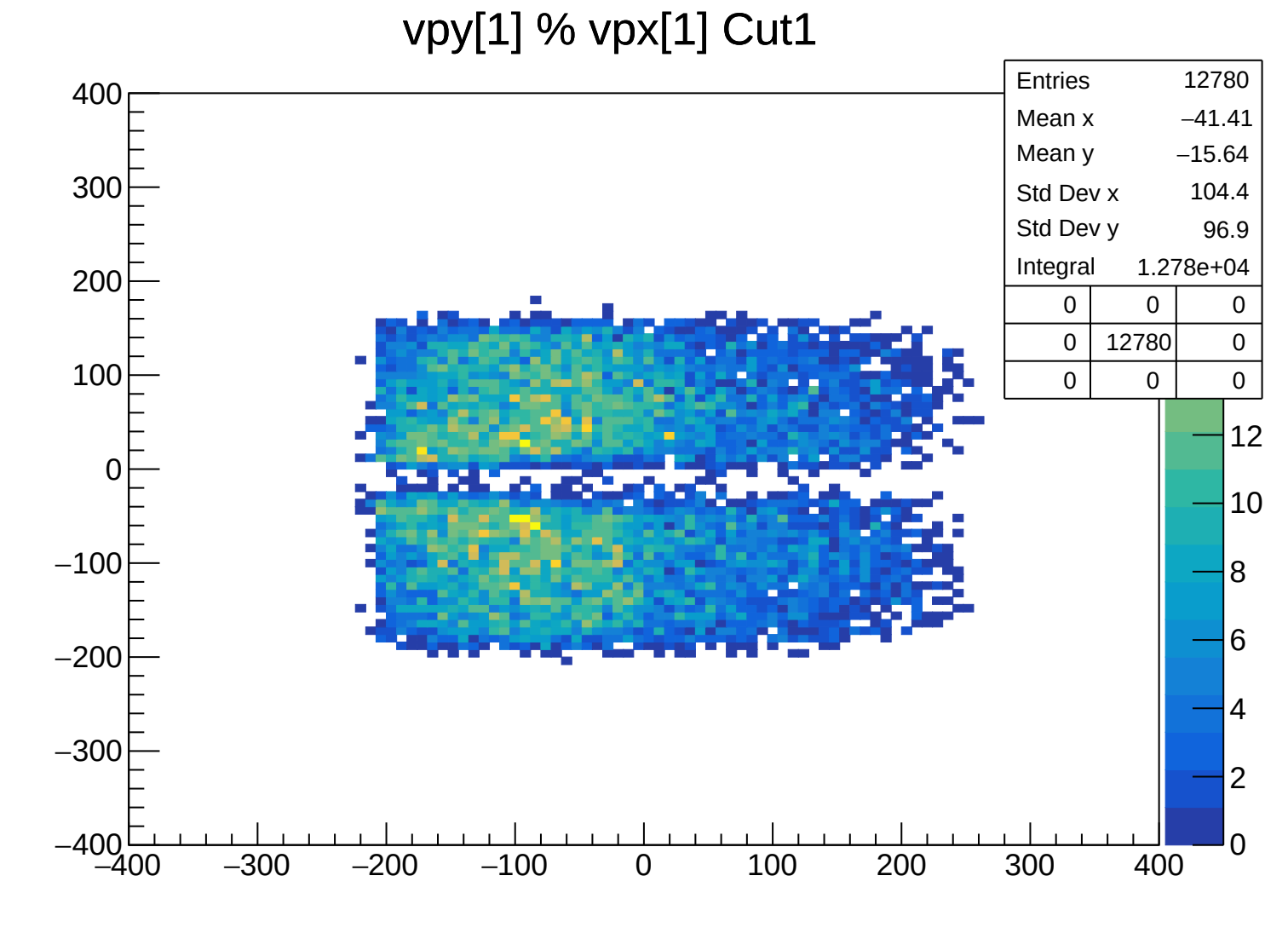

vpx[1] Cut3
Entries 138181
Mean −119.6
Std Dev 77.49
Underflow 0
Overflow 0
Integral 1.382e+05
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

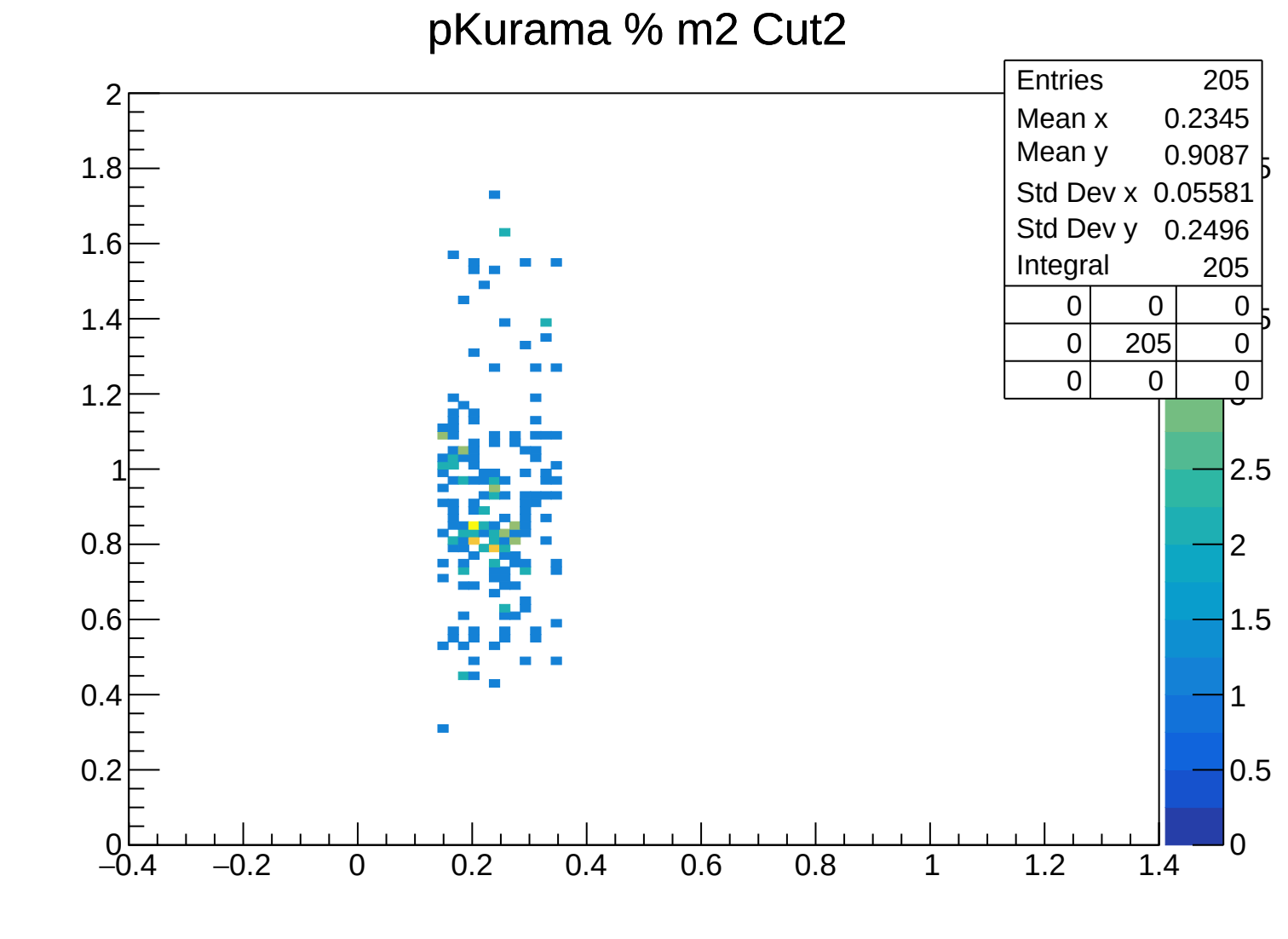

Sch Position by HitSegment Cut3
Entries 138181
Mean −119.5
Std Dev 77.65
Underflow 0
Overflow 0
Integral 1.382e+05
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

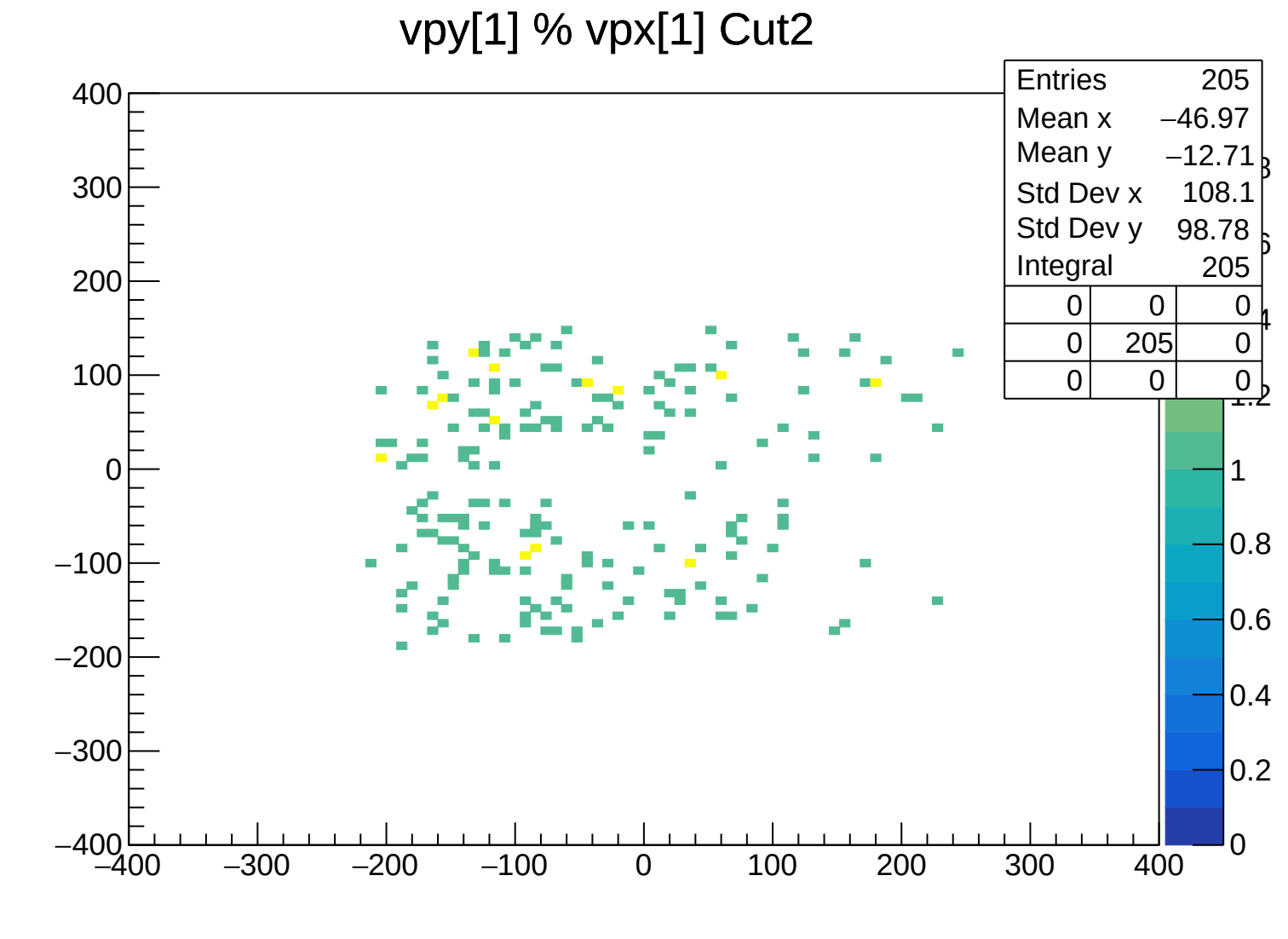

pKurama % m2
Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

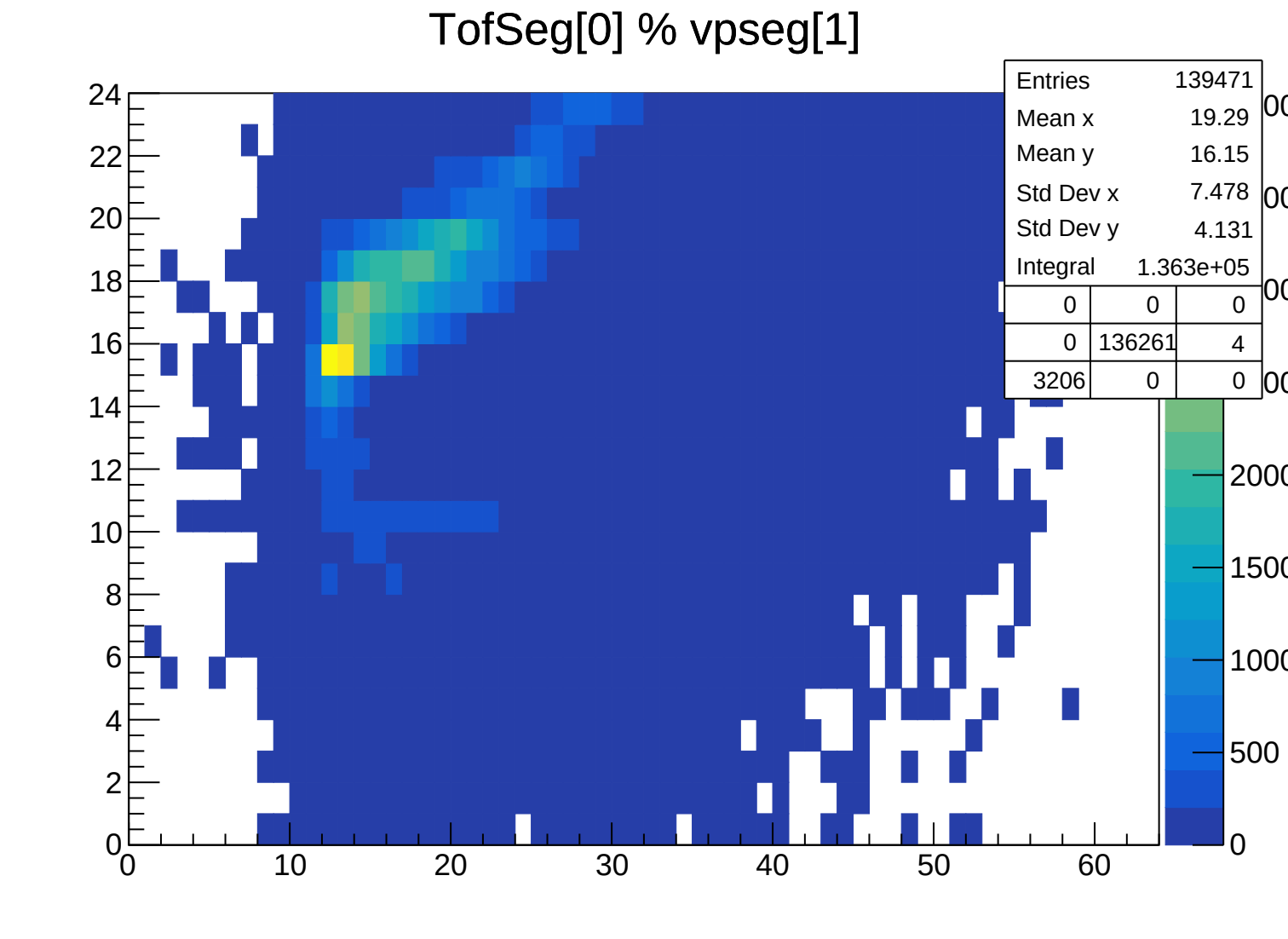

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
400
300
200
100
0

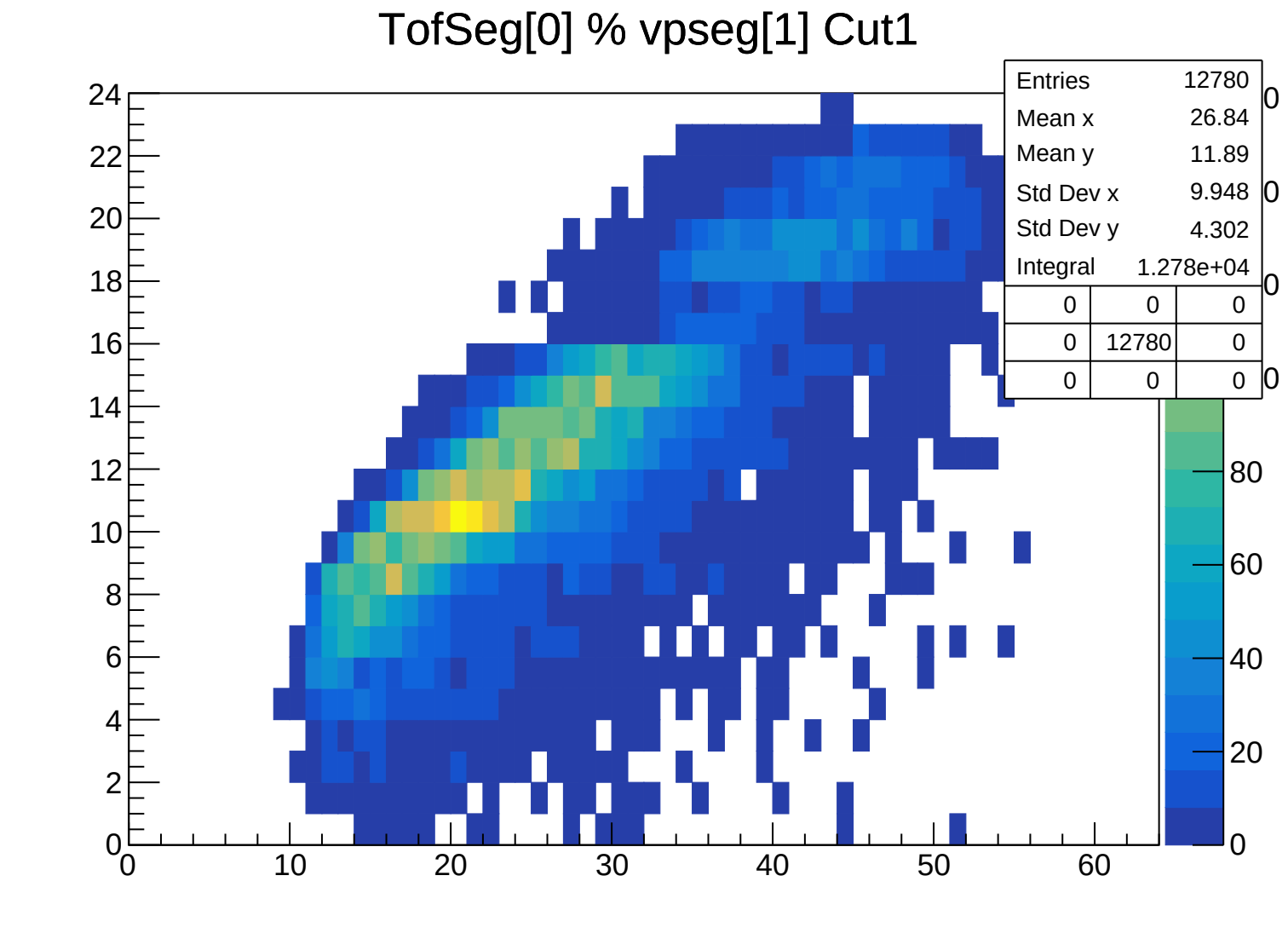

pKurama % m2 Cut1
Entries 12780
Mean x 0.5368
Mean y 1.042
Std Dev x 0.415
Std Dev y 0.3433
Integral 1.232e+04
1 0 0
132 12315 332
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
25
20
15
10
5
0

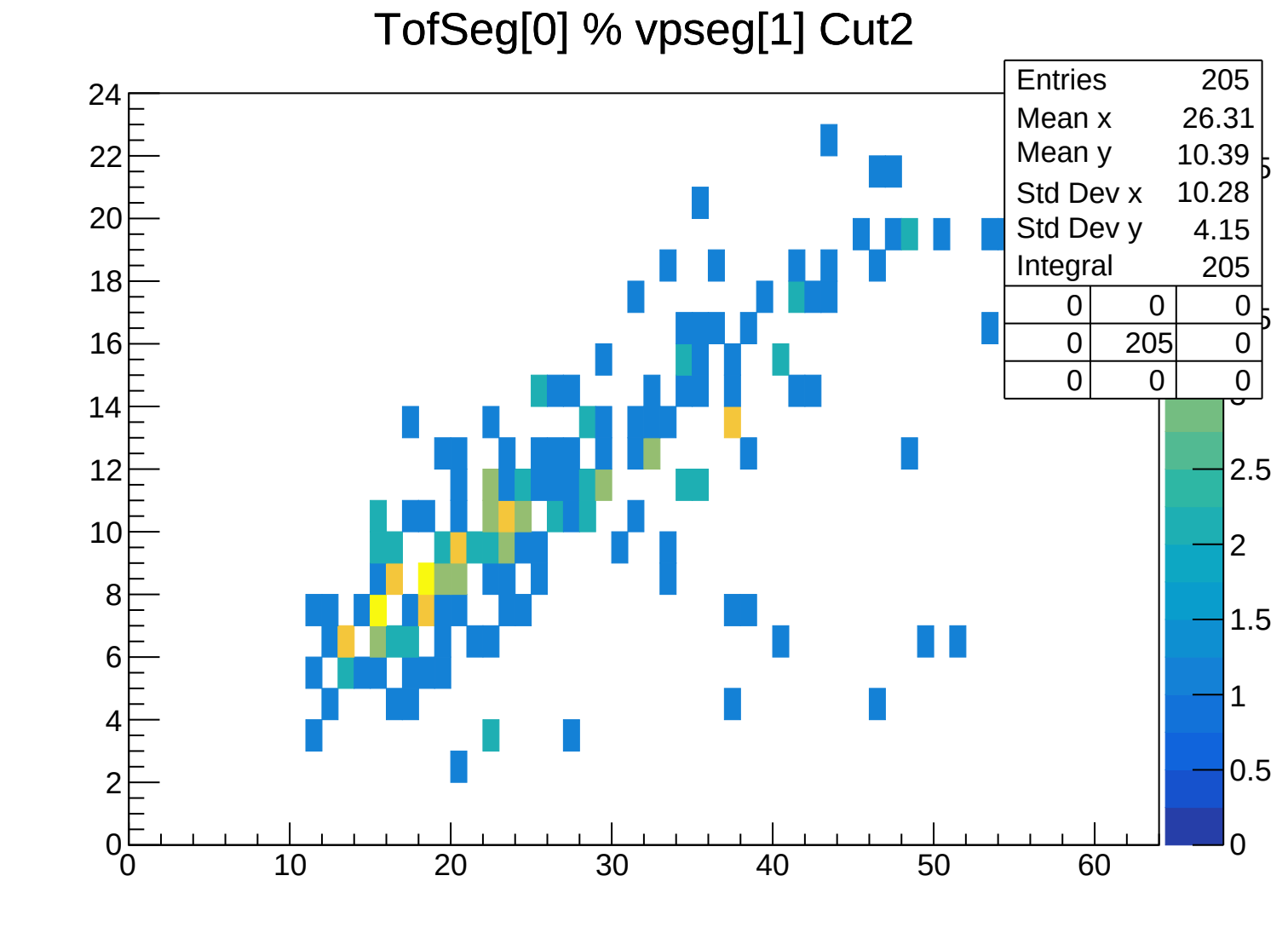

vpy[1] % vpx[1] Cut1
Entries 12780
Mean x –41.41
Mean y –15.64
Std Dev x 104.4
Std Dev y 96.9
Integral 1.278e+04
0 0 0
0 12780 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
12
10
8
6
4
2
0

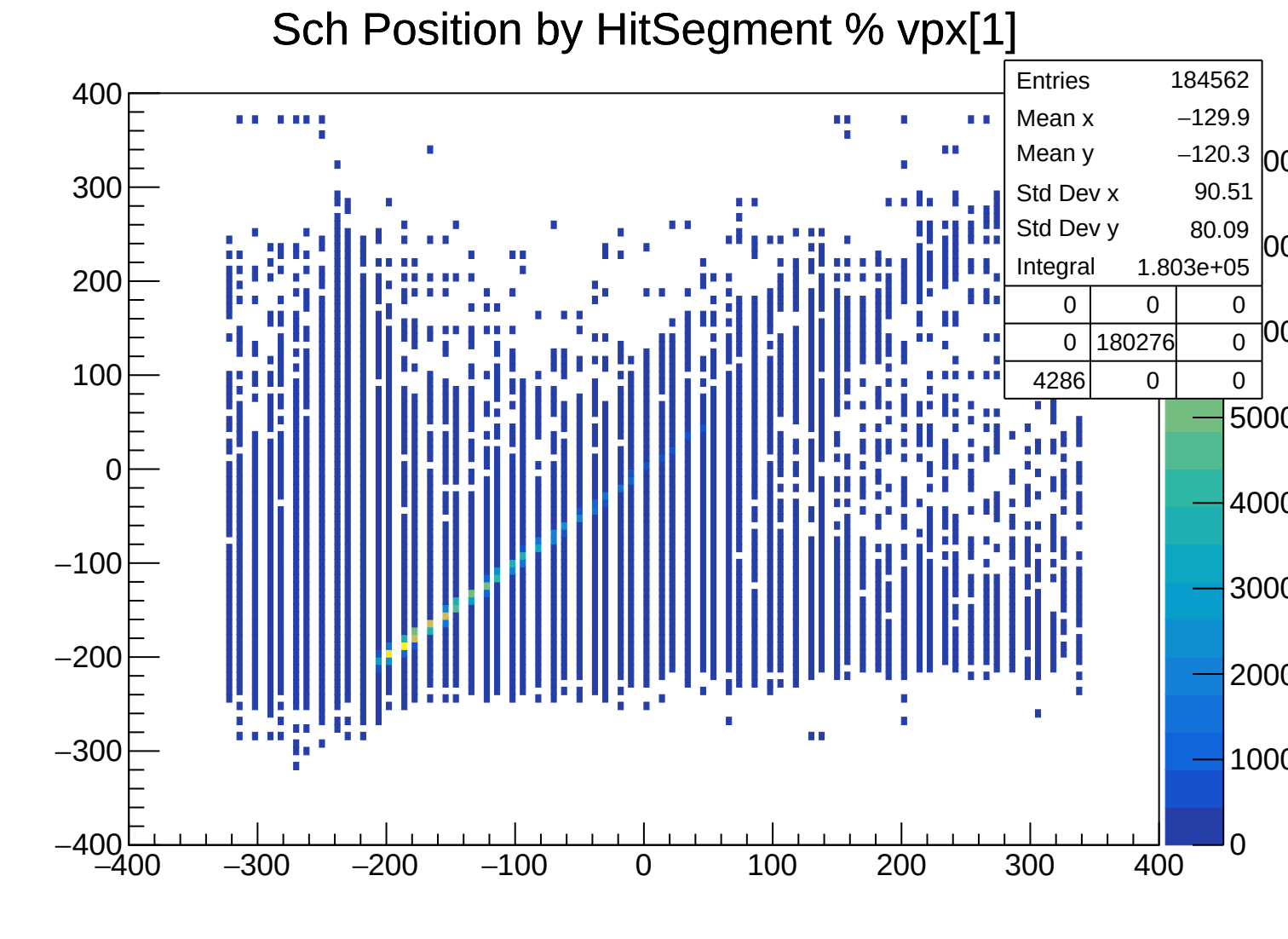

pKurama % m2 Cut2
Entries 205
Mean x 0.2345
Mean y 0.9087
Std Dev x 0.05581
Std Dev y 0.2496
Integral 205
0 0 0
0 205 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
2.5
2
1.5
1
0.5
0

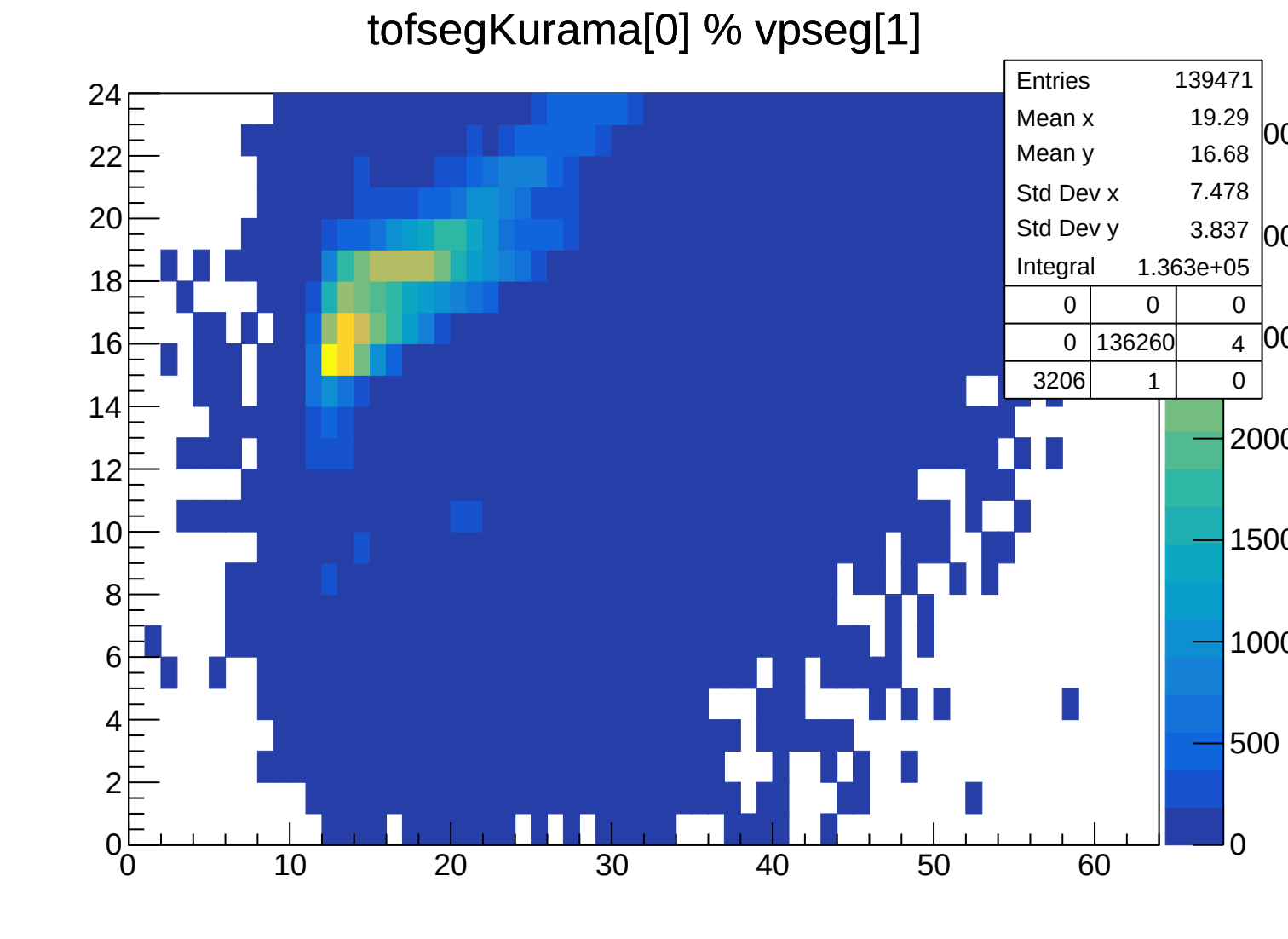

vpy[1] % vpx[1] Cut2
Entries 205
Mean x −46.97
Mean y −12.71
Std Dev x 108.1
Std Dev y 98.78
Integral 205
0 0 0
0 205 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
1
0.8
0.6
0.4
0.2
0

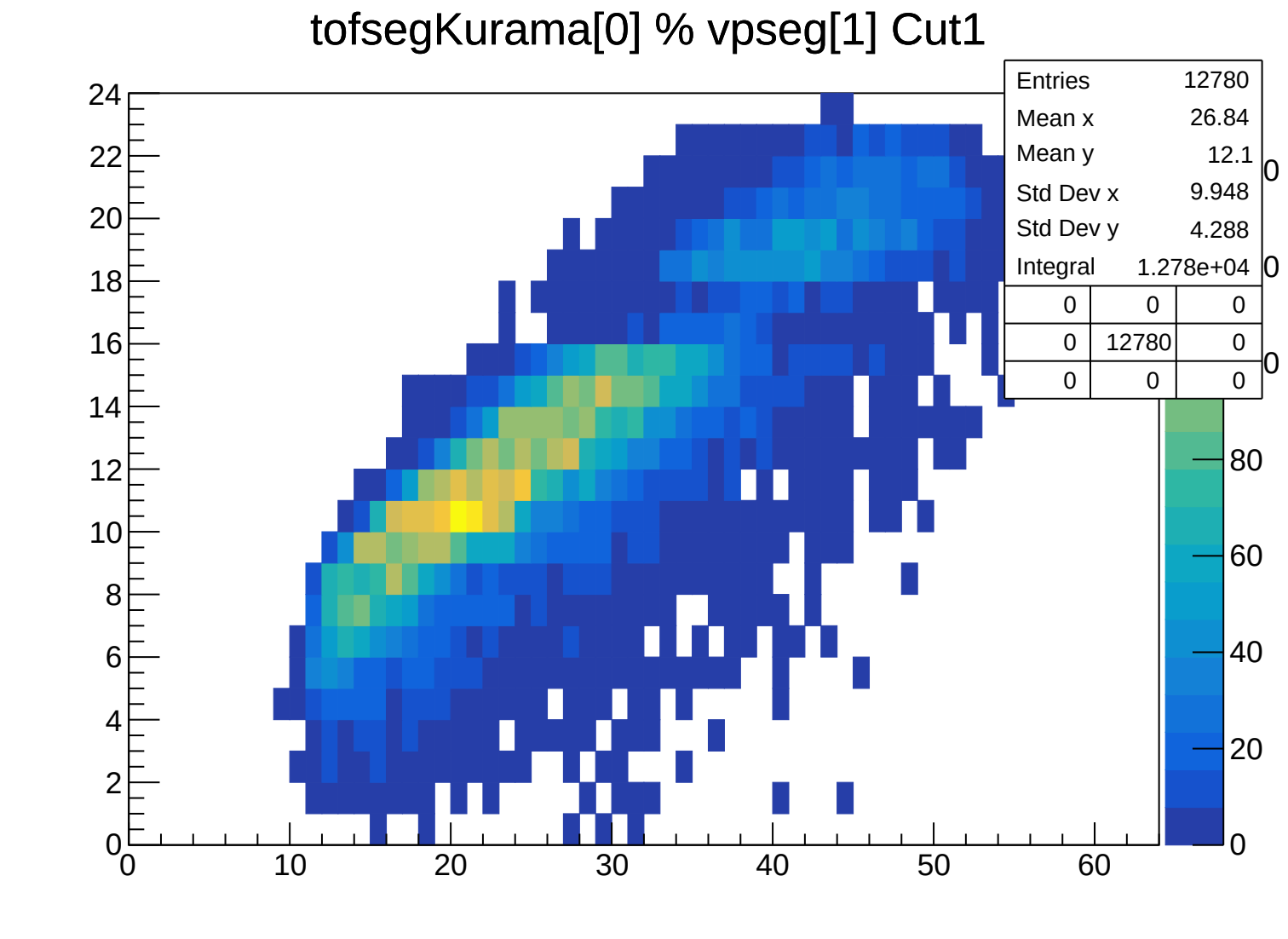

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.15
Std Dev x 7.478
Std Dev y 4.131
Integral 1.363e+05
0 0 0
0 136261 4
3206 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60
0 500 1000 1500 2000

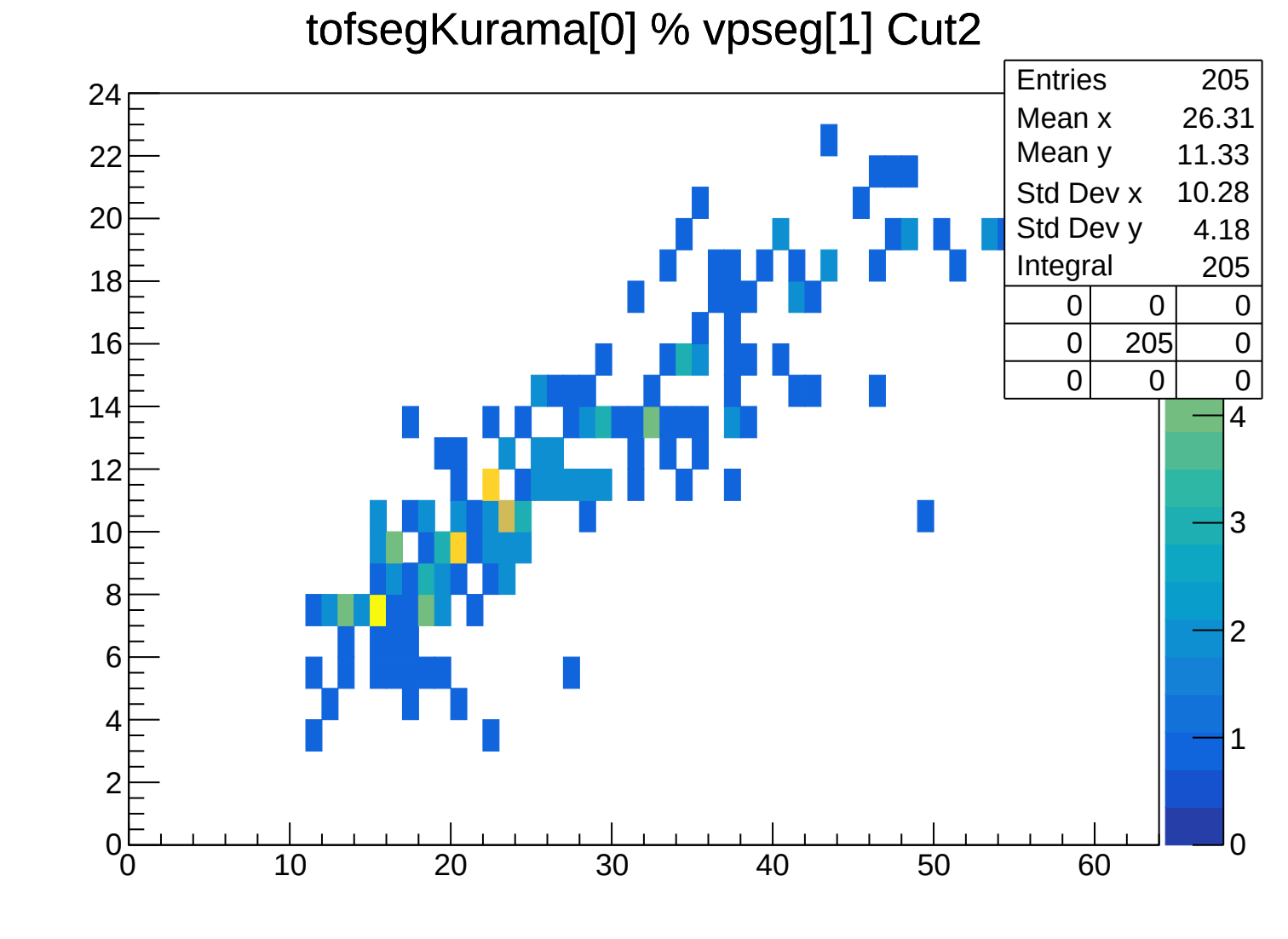

TofSeg[0] % vpseg[1] Cut1
Entries 12780
Mean x 26.84
Mean y 11.89
Std Dev x 9.948
Std Dev y 4.302
Integral 1.278e+04
0 0 0
0 12780 0
0 0 0
0 10 20 30 40 50 60
0 2 4 6 8 10 12 14 16 18 20 22 24
0 20 40 60 80

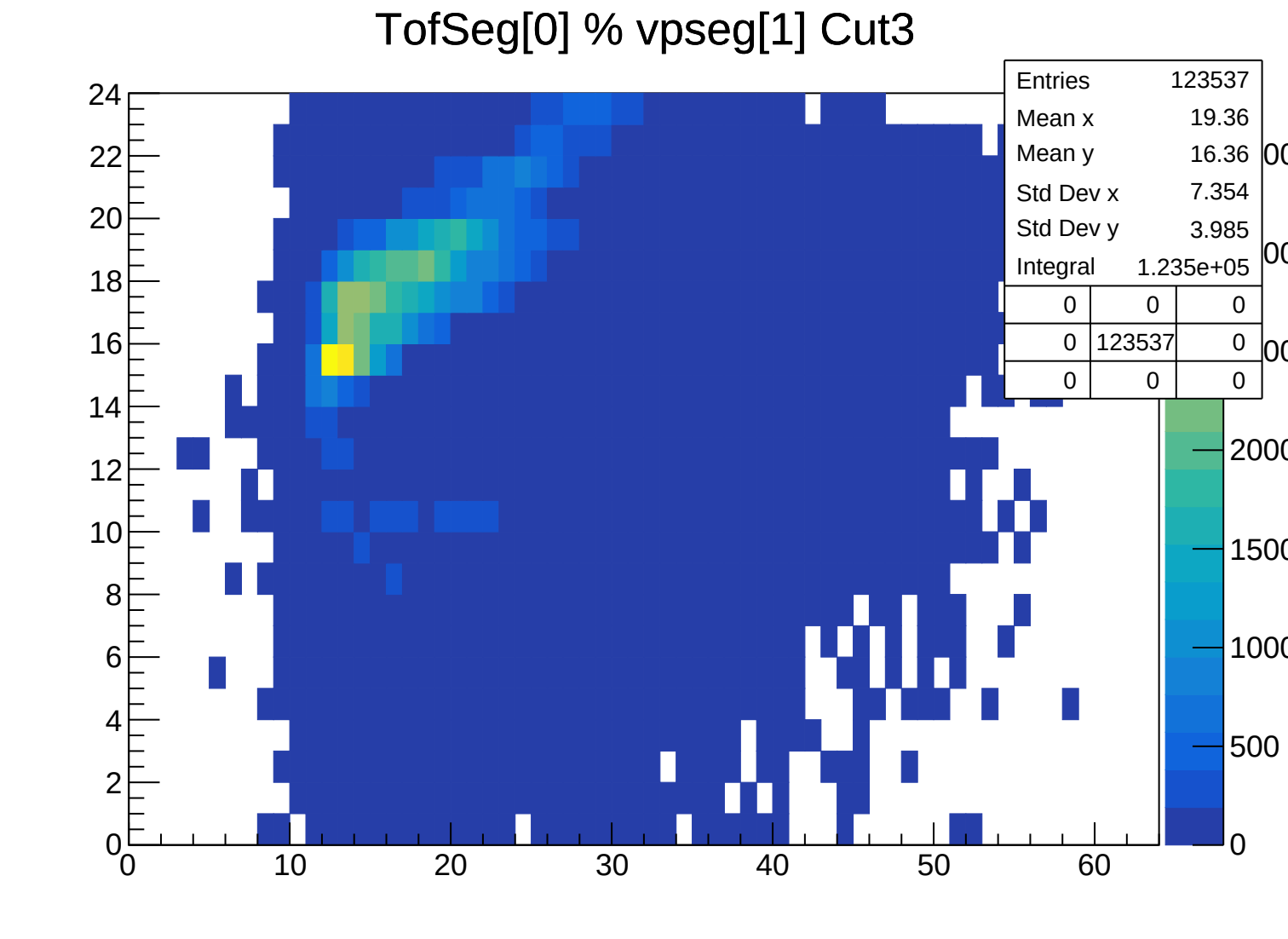

TofSeg[0] % vpseg[1] Cut2
Entries 205
Mean x 26.31
Mean y 10.39
Std Dev x 10.28
Std Dev y 4.15
Integral 205
0 0 0
0 205 0
0 0 0
0 10 20 30 40 50 60
0 2 4 6 8 10 12 14 16 18 20 22 24
0 0.5 1 1.5 2 2.5

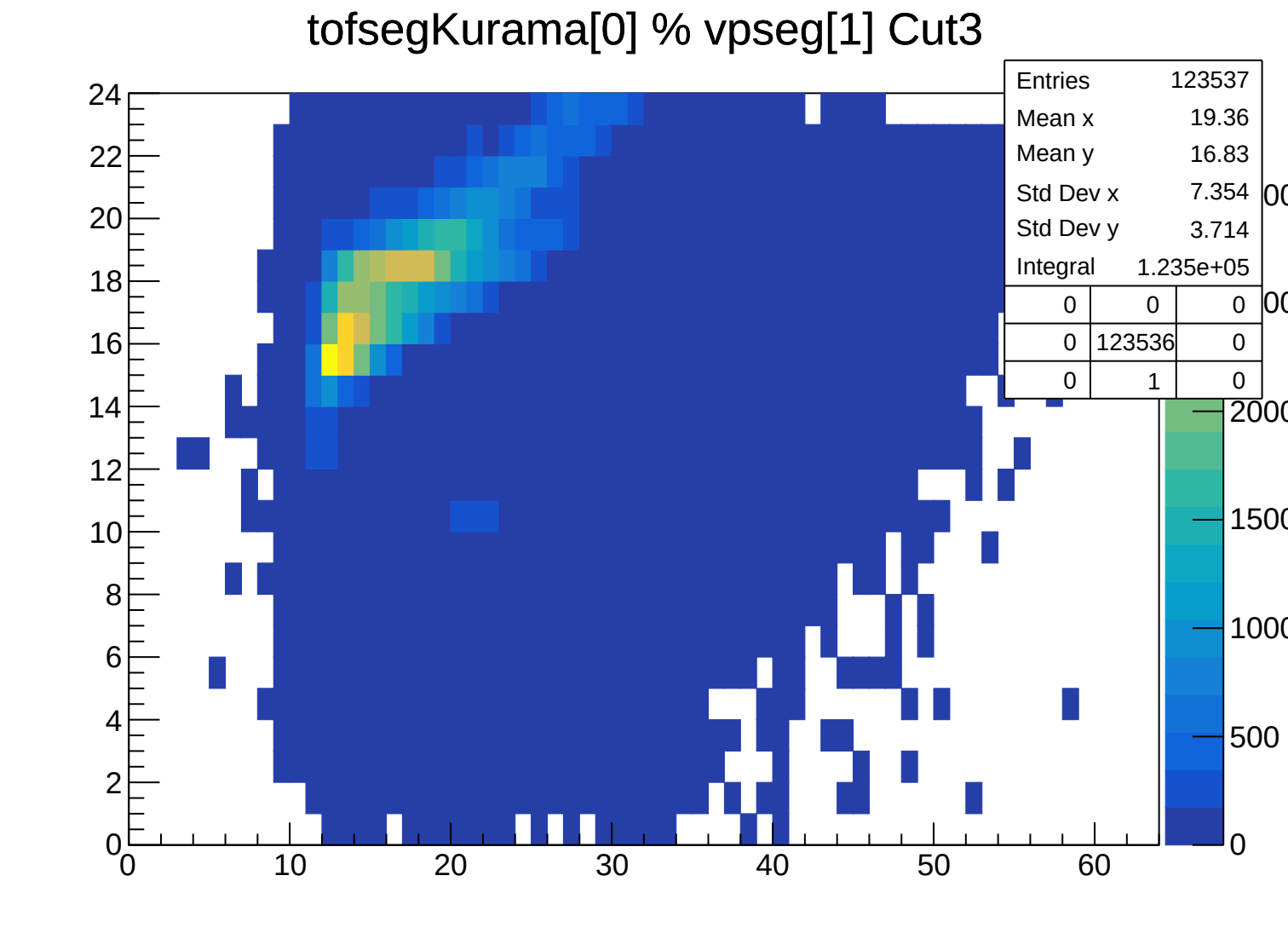

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

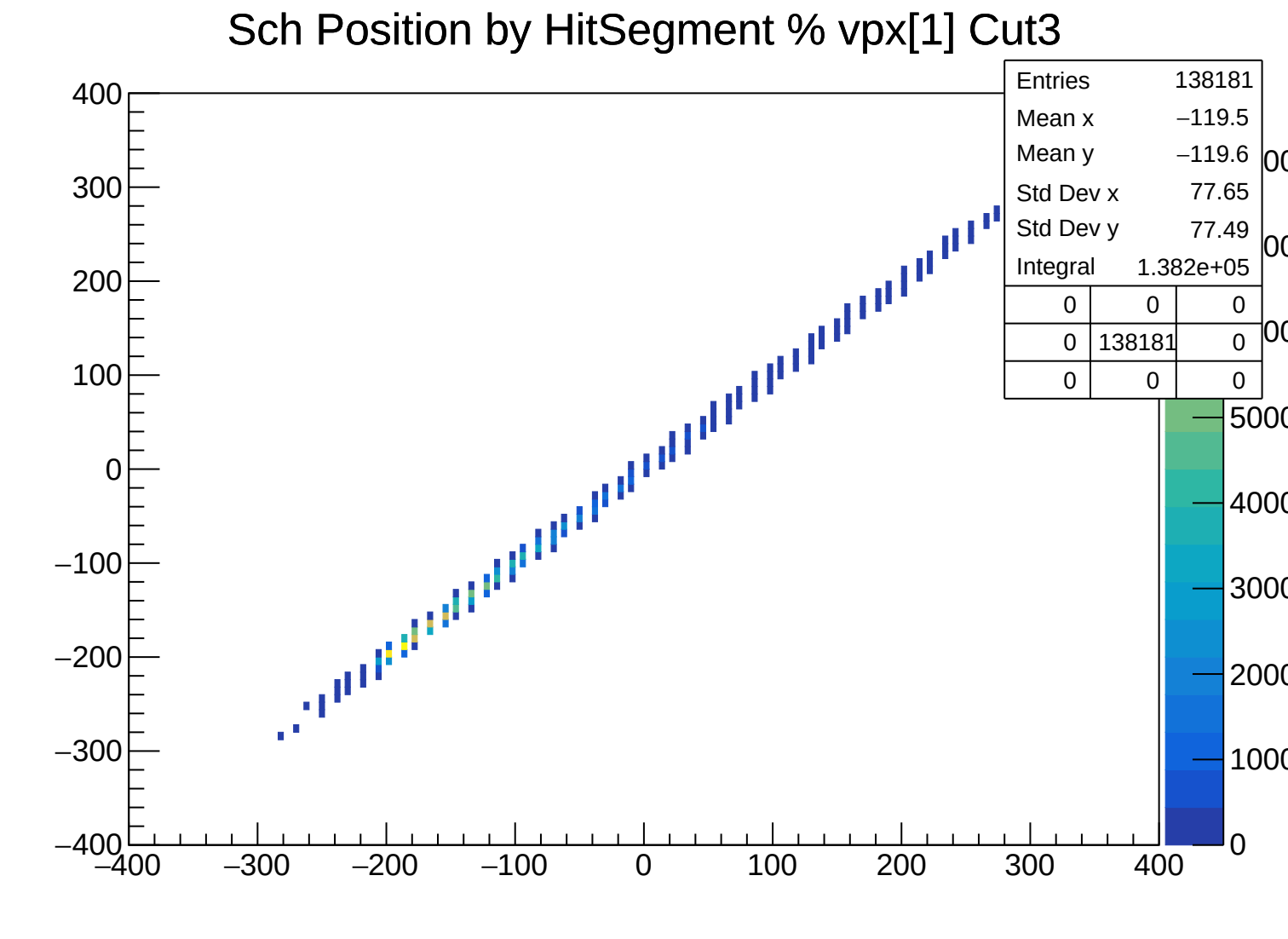

tofsegKurama[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.68
Std Dev x 7.478
Std Dev y 3.837
Integral 1.363e+05
0 0 0
0 136260 4
3206 1 0
24
22
20
18
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
2000
1500
1000
500
0

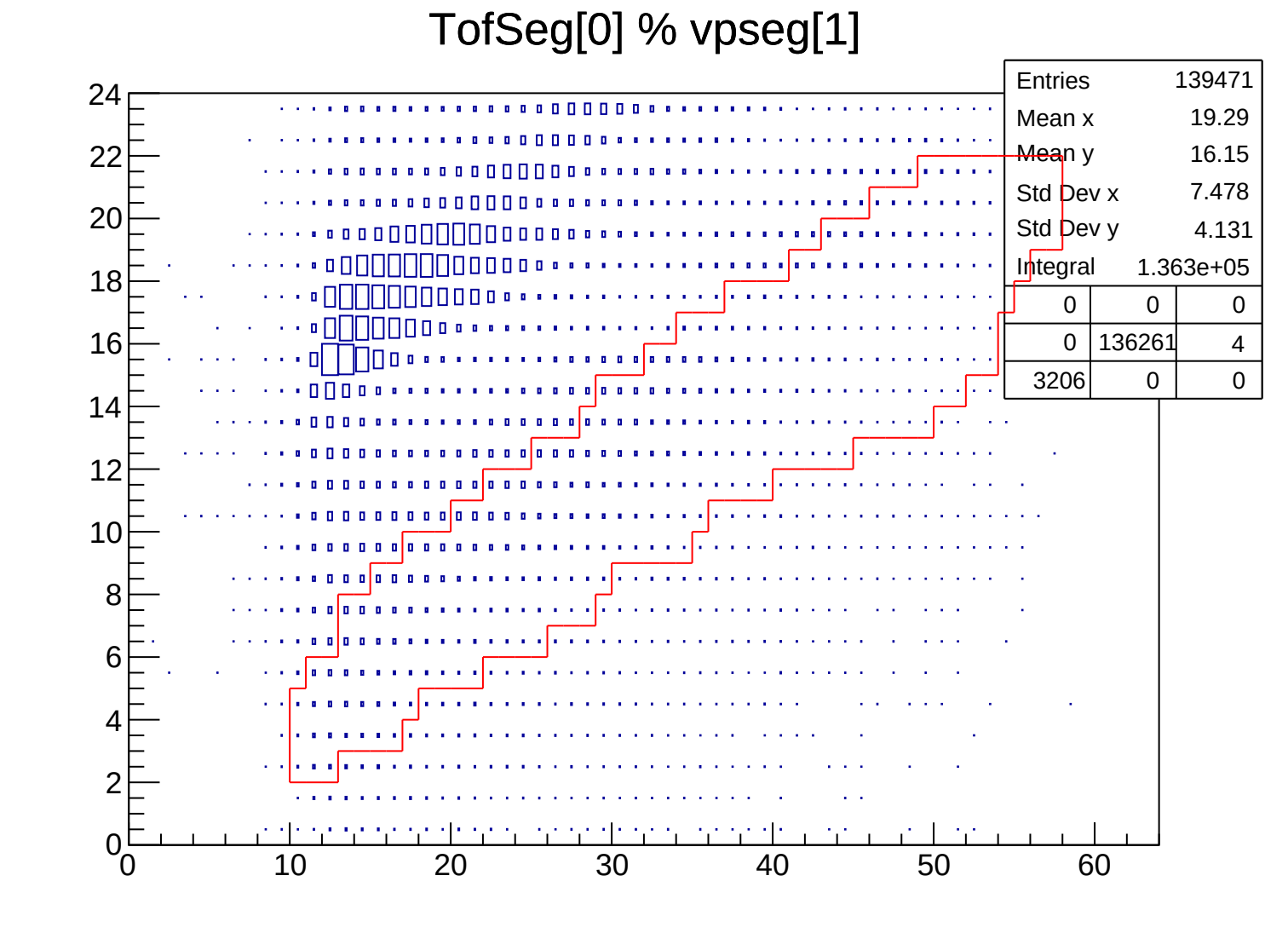

tofsegKurama[0] % vpseg[1] Cut1
Entries 12780
Mean x 26.84
Mean y 12.1
Std Dev x 9.948
Std Dev y 4.288
Integral 1.278e+04
0 0 0
0 12780 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60
0 20 40 60 80

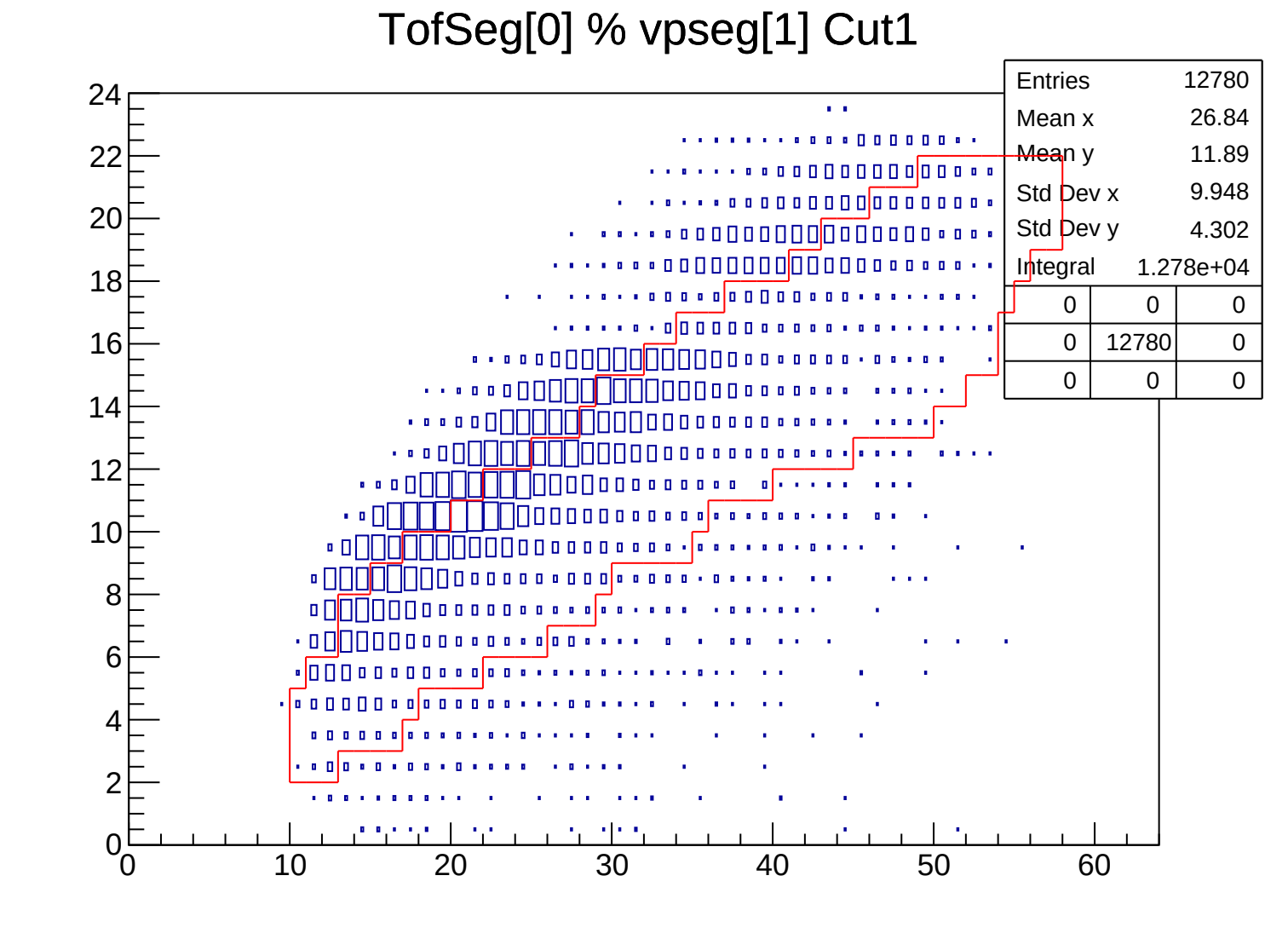

tofsegKurama[0] % vpseg[1] Cut2
Entries 205
Mean x 26.31
Mean y 11.33
Std Dev x 10.28
Std Dev y 4.18
Integral 205
0 0 0
0 205 0
0 0 0
0 10 20 30 40 50 60
0 2 4 6 8 10 12 14 16 18 20 22 24
0 1 2 3 4

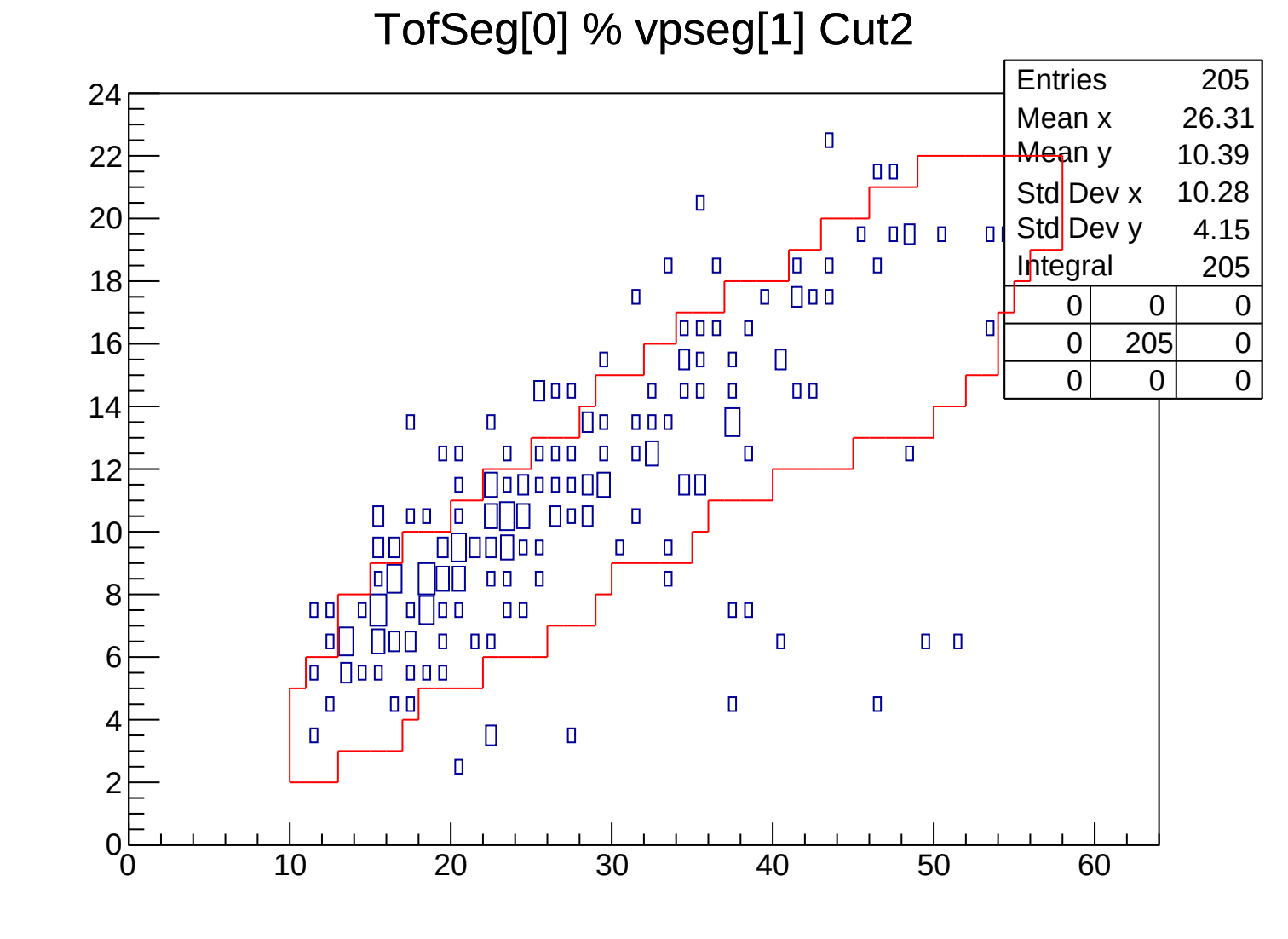

TofSeg[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 16.36
Std Dev x 7.354
Std Dev y 3.985
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
24
22
20
18
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
2000
1500
1000
500
0

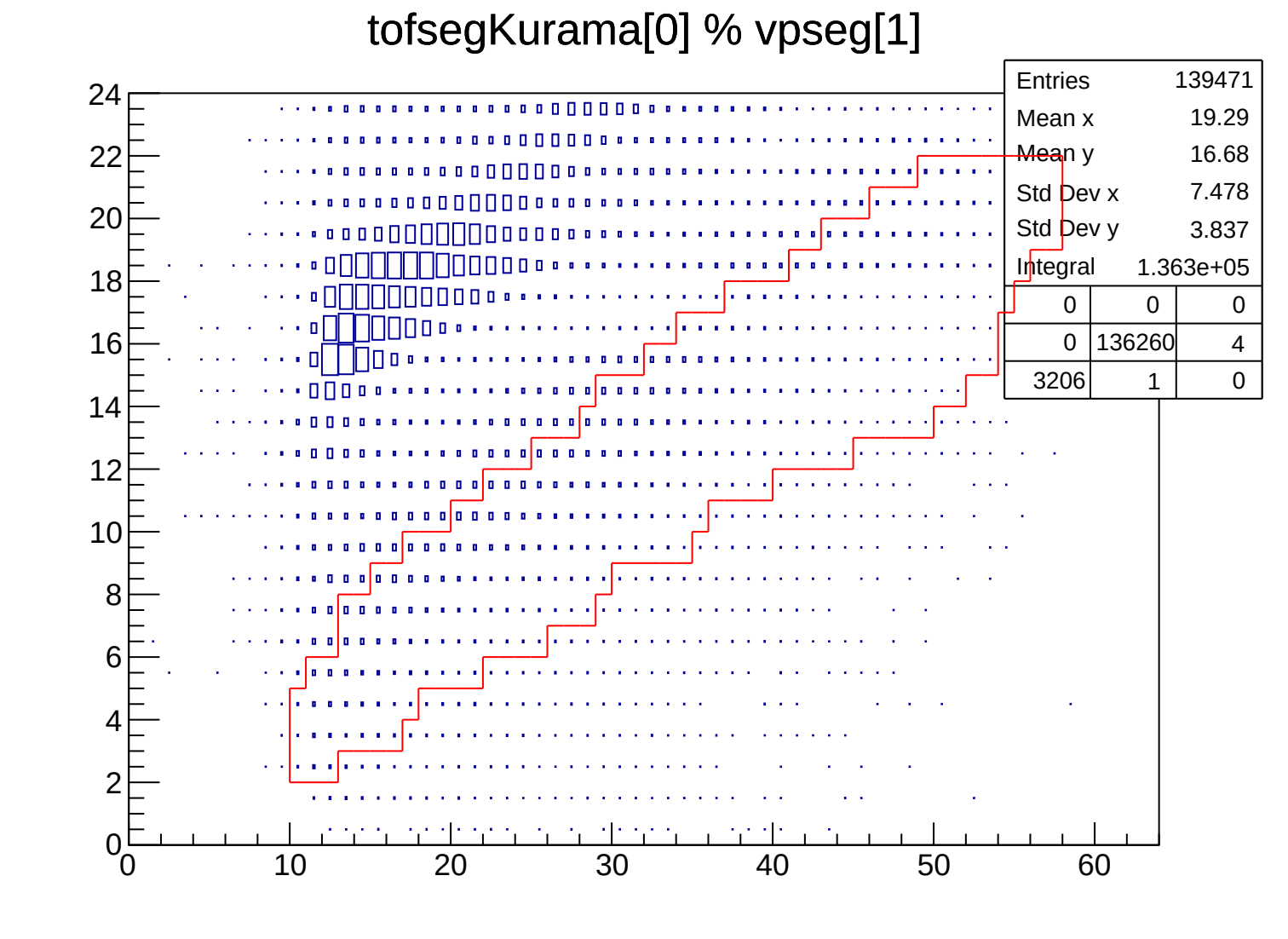

tofsegKurama[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 16.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
24
22
20
18
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
2000
1500
1000
500
0

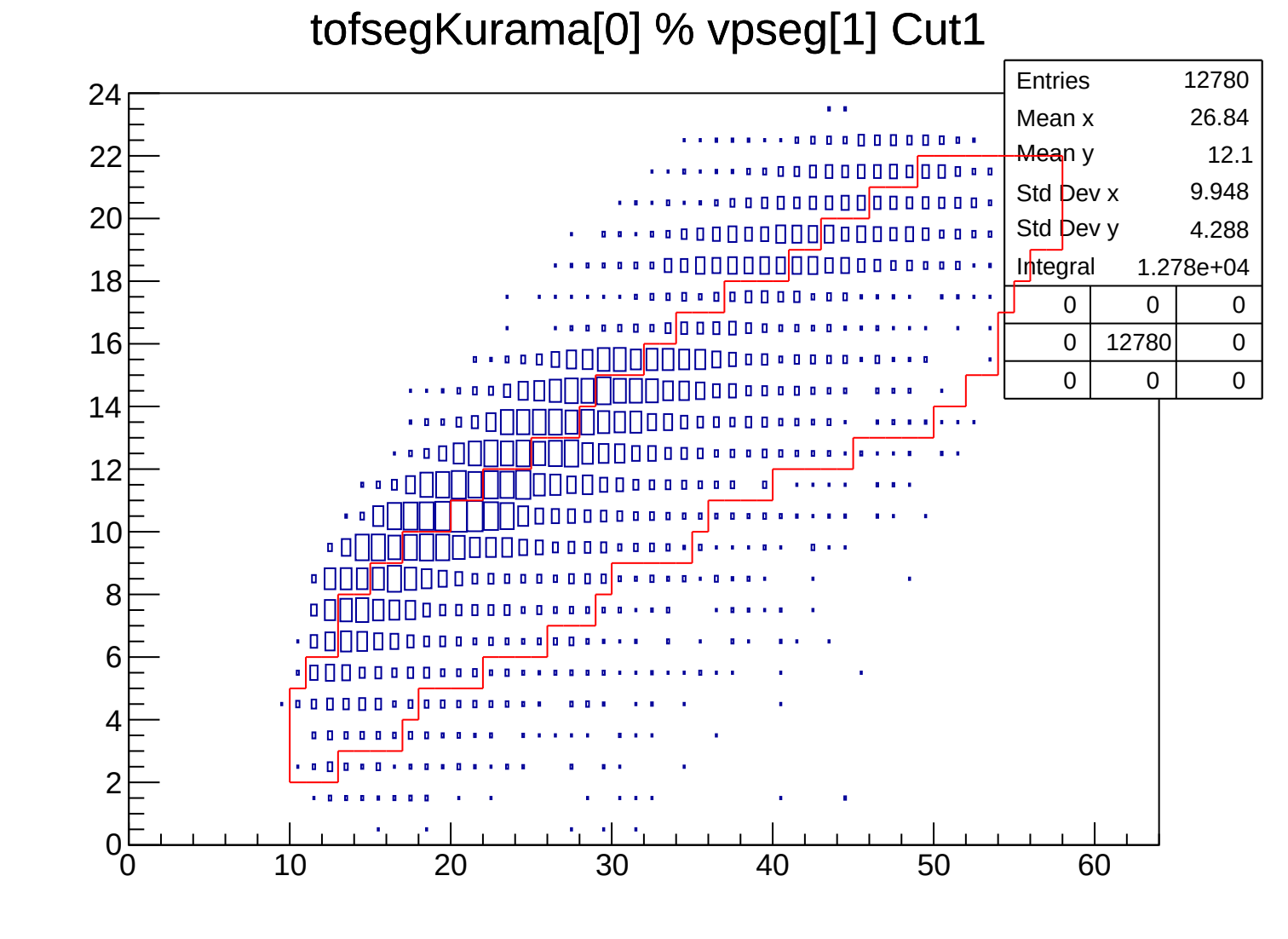

Sch Position by HitSegment % vpx[1] Cut3
Entries 138181
Mean x −119.5
Mean y −119.6
Std Dev x 77.65
Std Dev y 77.49
Integral 1.382e+05
0 0 0
0 138181 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

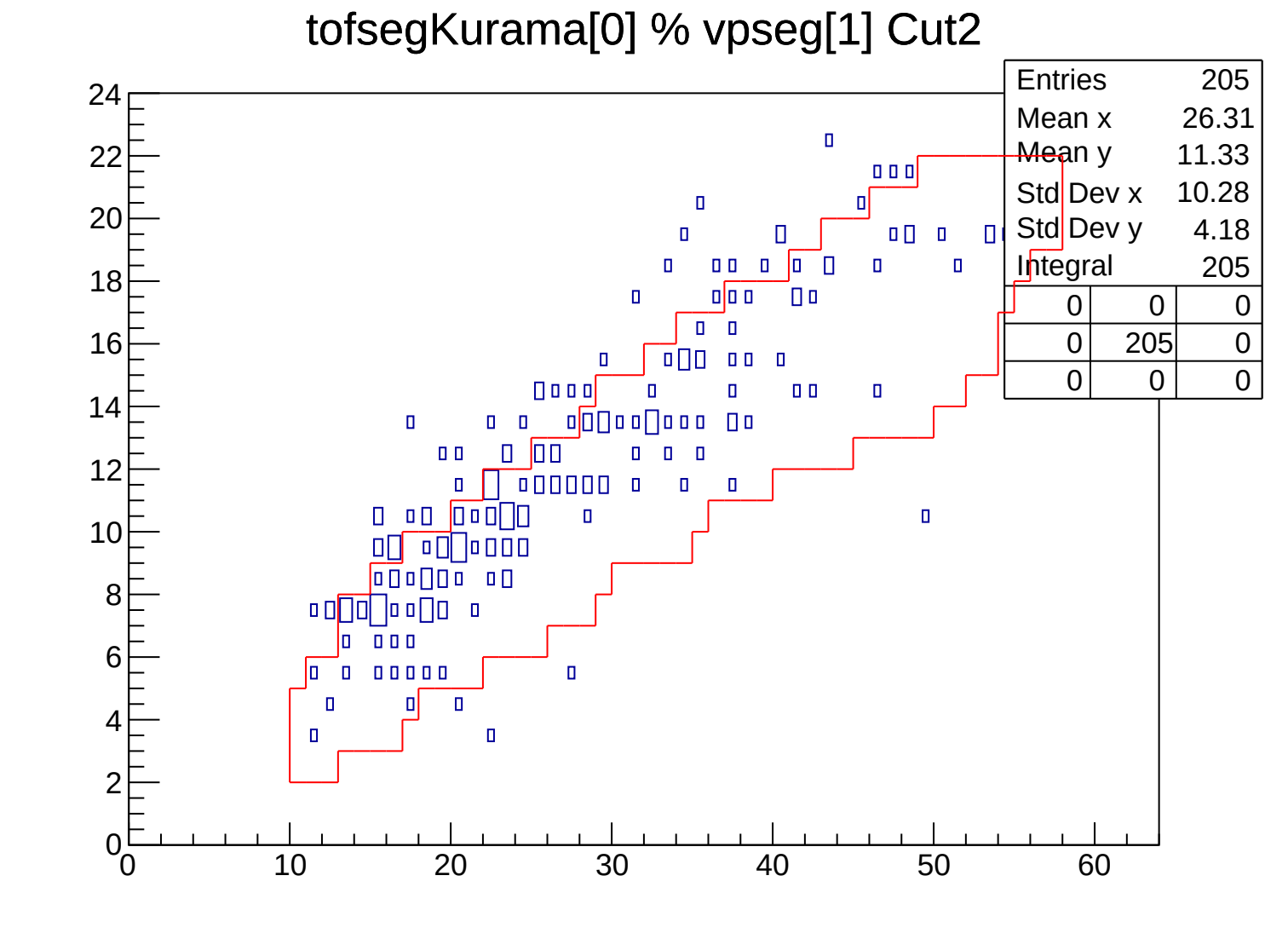

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.15
Std Dev x 7.478
Std Dev y 4.131
Integral 1.363e+05
0 0 0
0 136261 4
3206 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60

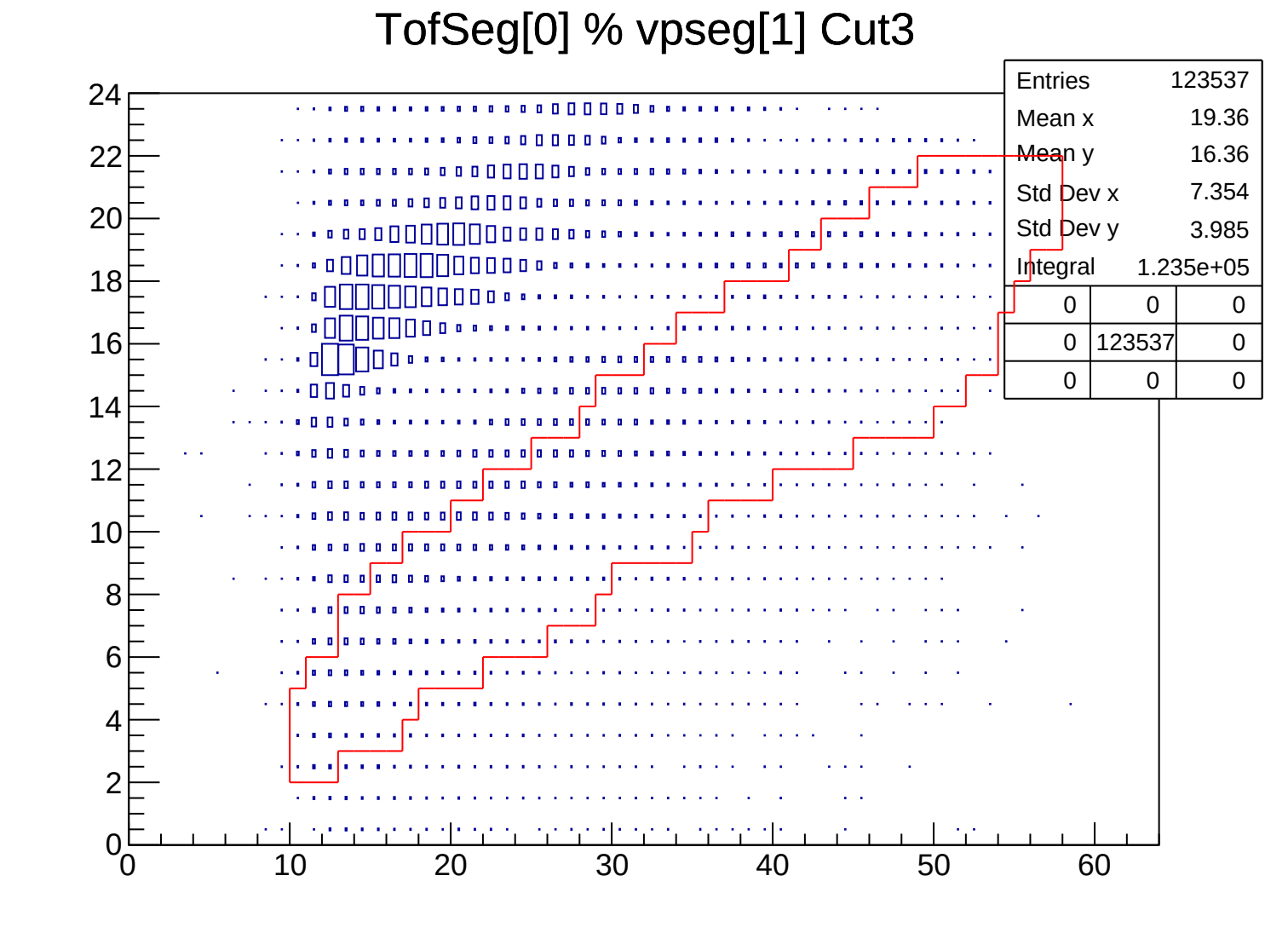

TofSeg[0] % vpseg[1] Cut1
Entries 12780
Mean x 26.84
Mean y 11.89
Std Dev x 9.948
Std Dev y 4.302
Integral 1.278e+04
0 0 0
0 12780 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60

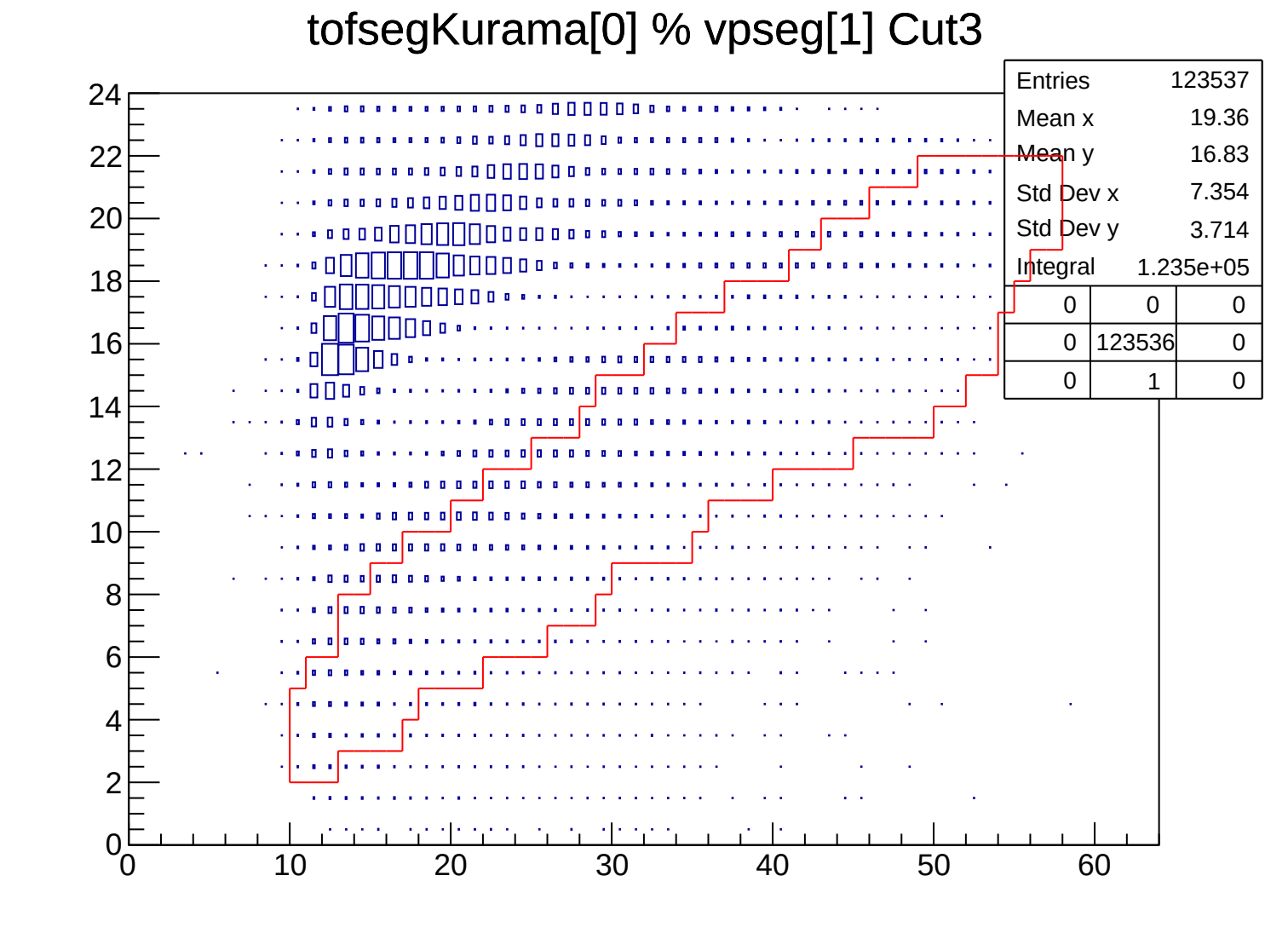

TofSeg[0] % vpseg[1] Cut2
Entries 205
Mean x 26.31
Mean y 10.39
Std Dev x 10.28
Std Dev y 4.15
Integral 205
0 0 0
0 205 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60


tofsegKurama[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.68
Std Dev x 7.478
Std Dev y 3.837
Integral 1.363e+05
0 0 0
0 136260 4
3206 1 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60


tofsegKurama[0] % vpseg[1] Cut1
Entries 12780
Mean x 26.84
Mean y 12.1
Std Dev x 9.948
Std Dev y 4.288
Integral 1.278e+04
0 0 0
0 12780 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60


tofsegKurama[0] % vpseg[1] Cut2
Entries 205
Mean x 26.31
Mean y 11.33
Std Dev x 10.28
Std Dev y 4.18
Integral 205
0 0 0
0 205 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


TofSeg[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 16.36
Std Dev x 7.354
Std Dev y 3.985
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60


tofsegKurama[0] % vpseg[1] Cut3
Entries 123537
Mean x 19.36
Mean y 16.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60