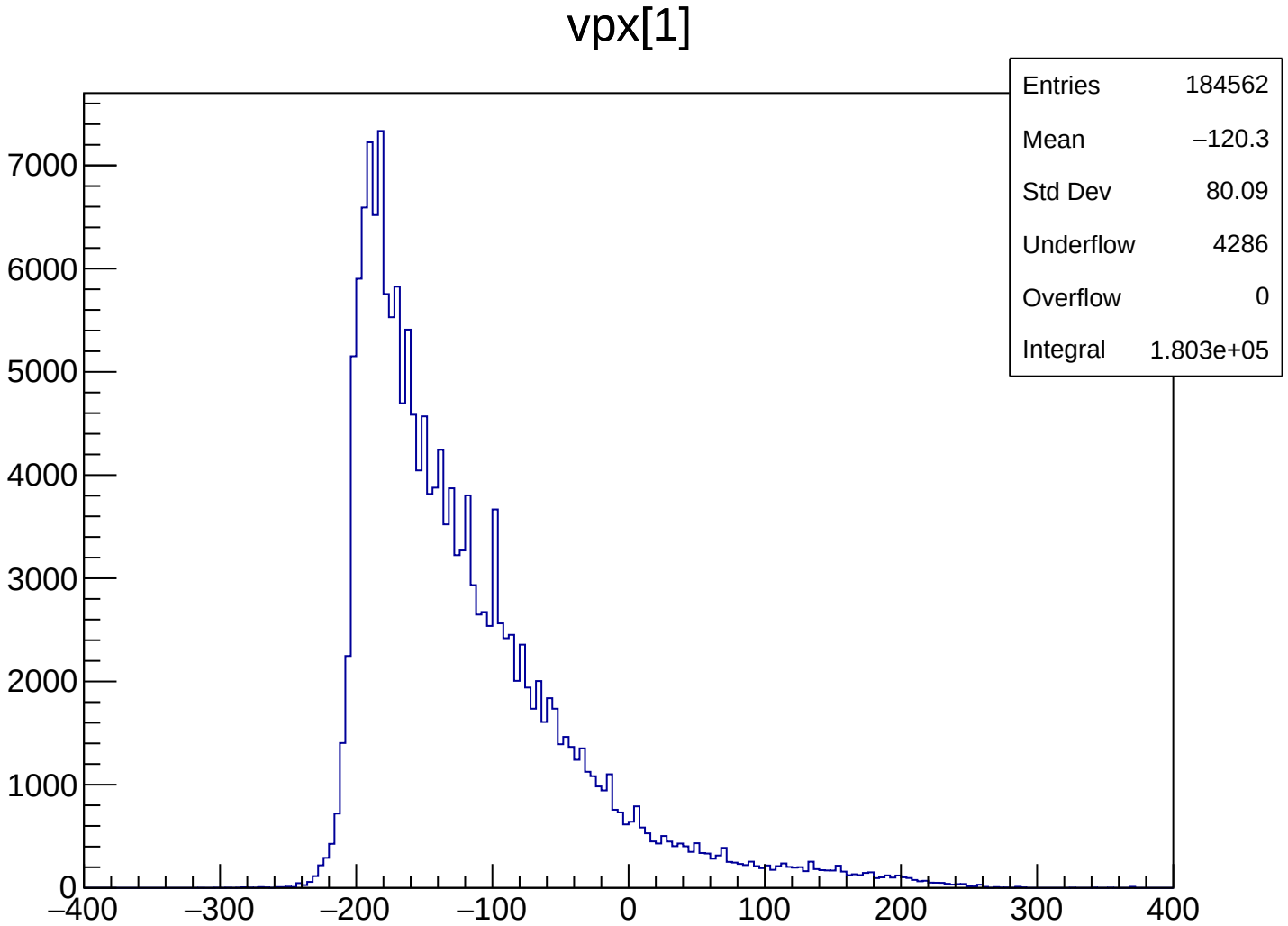
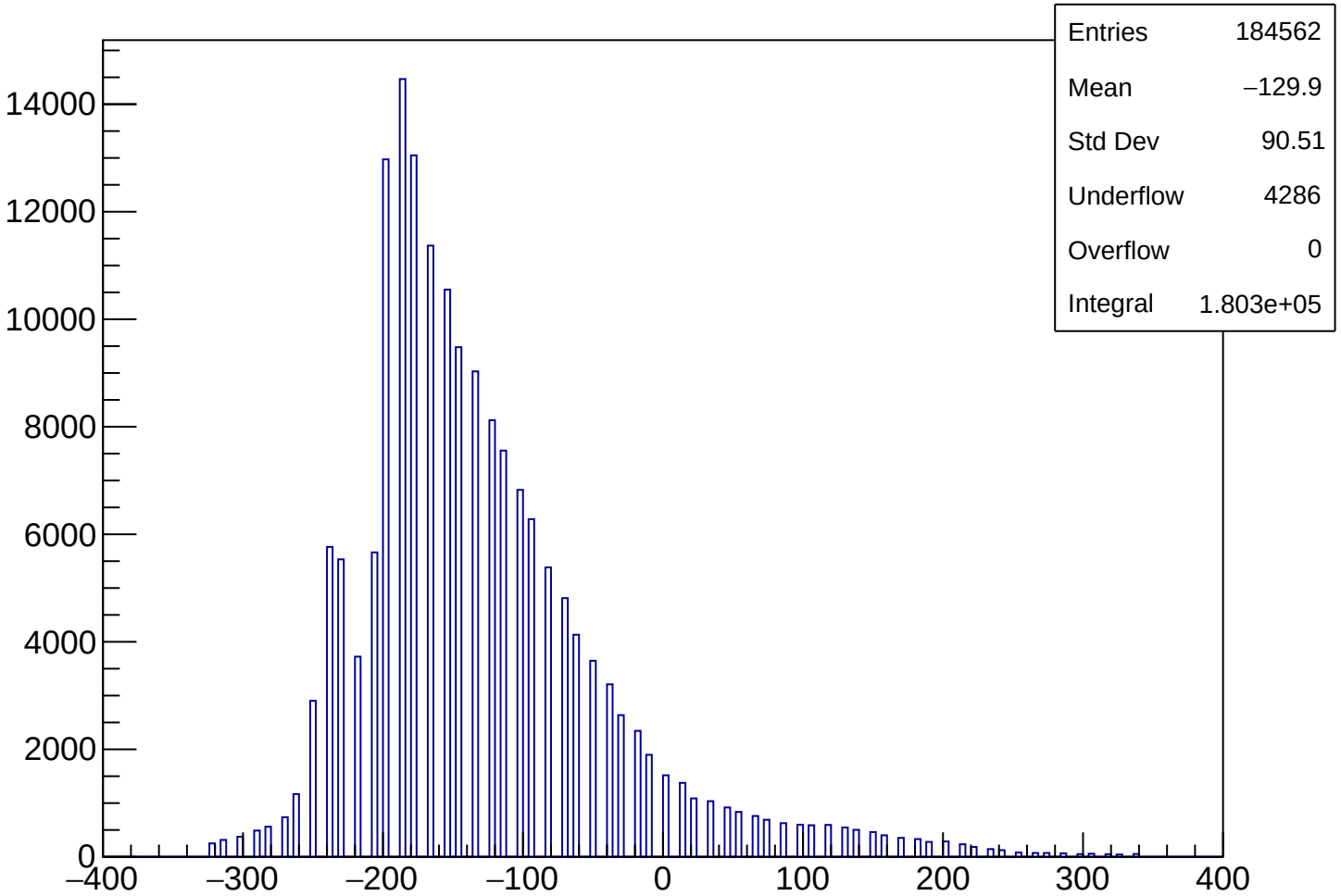
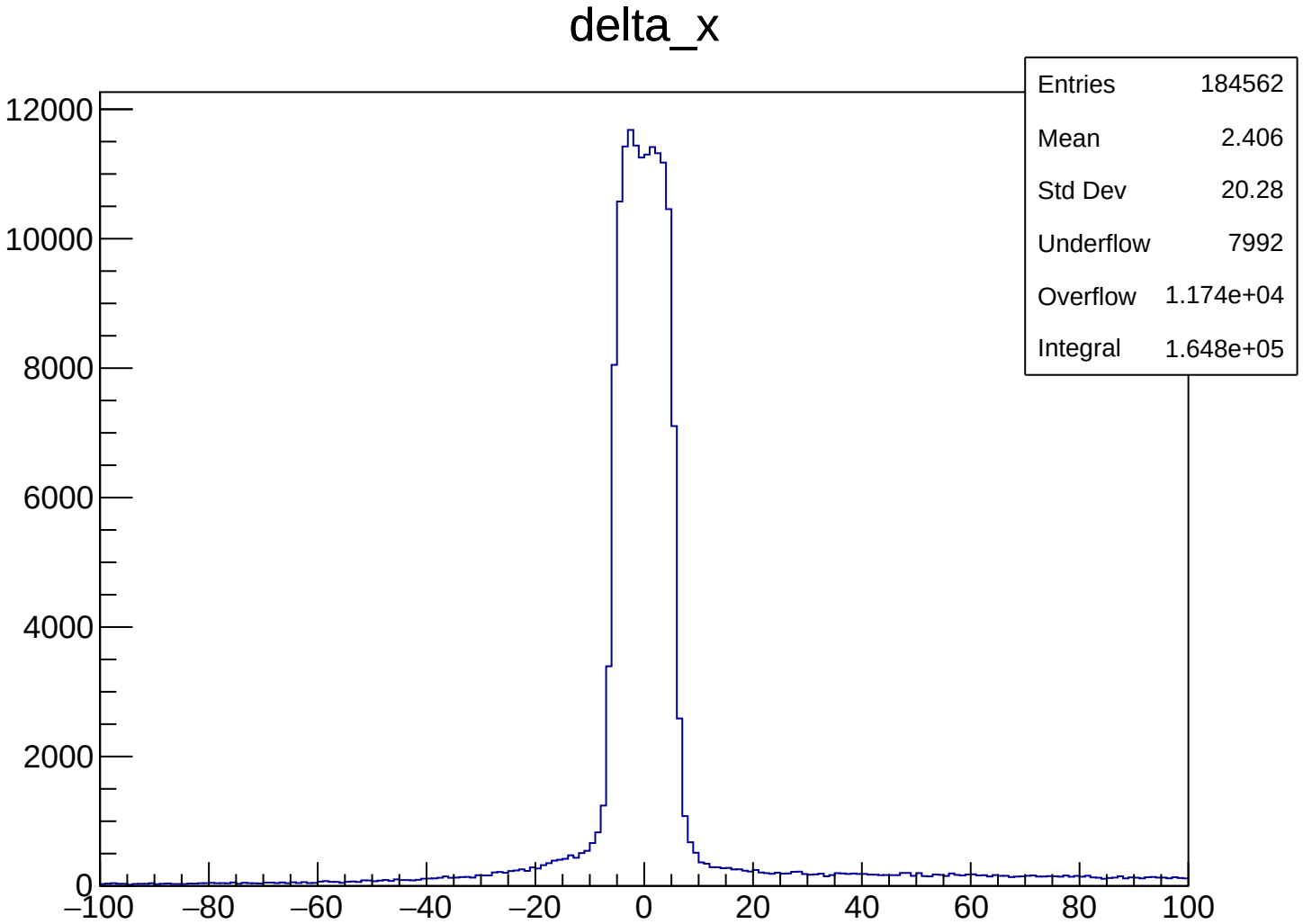
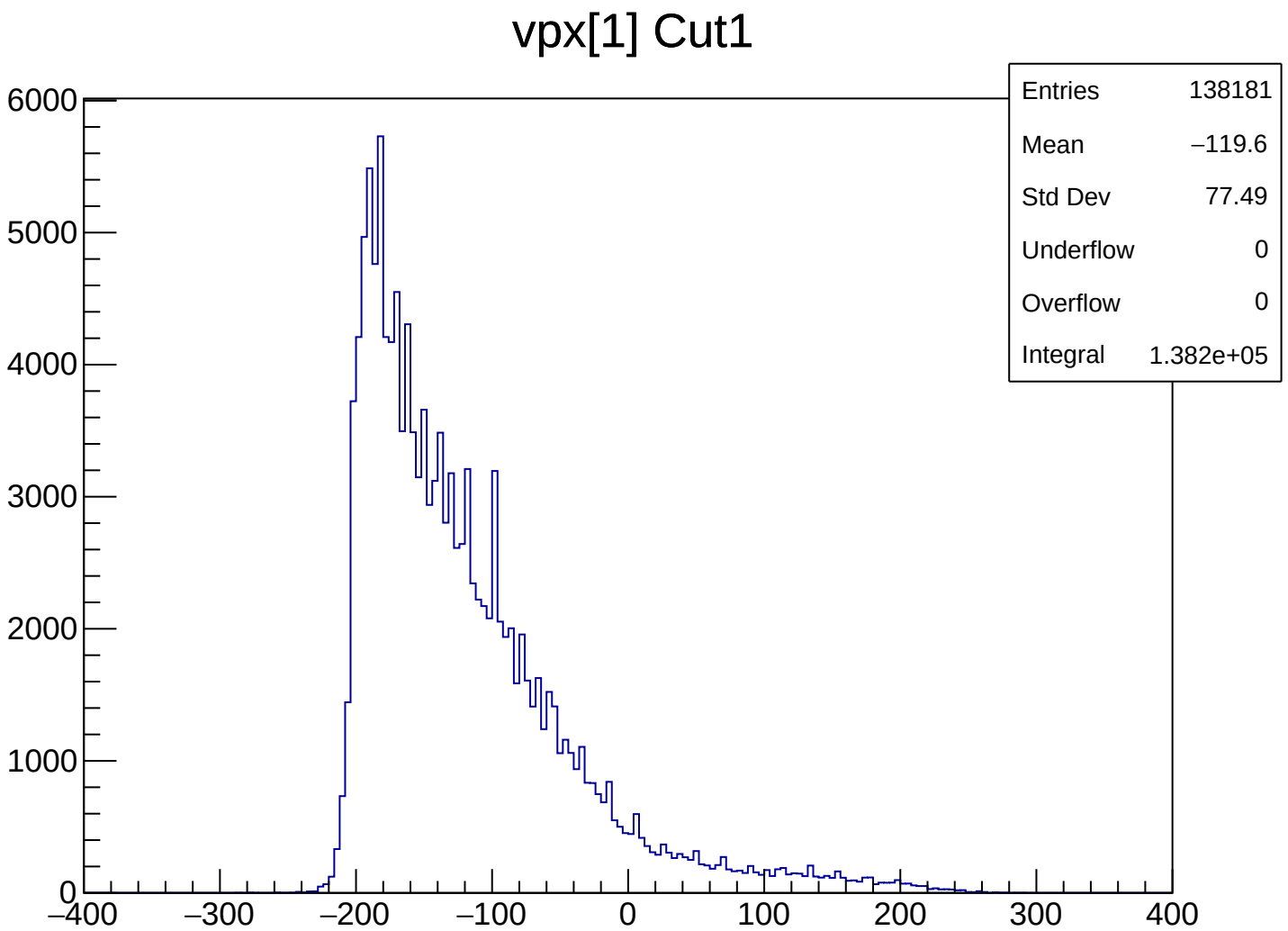
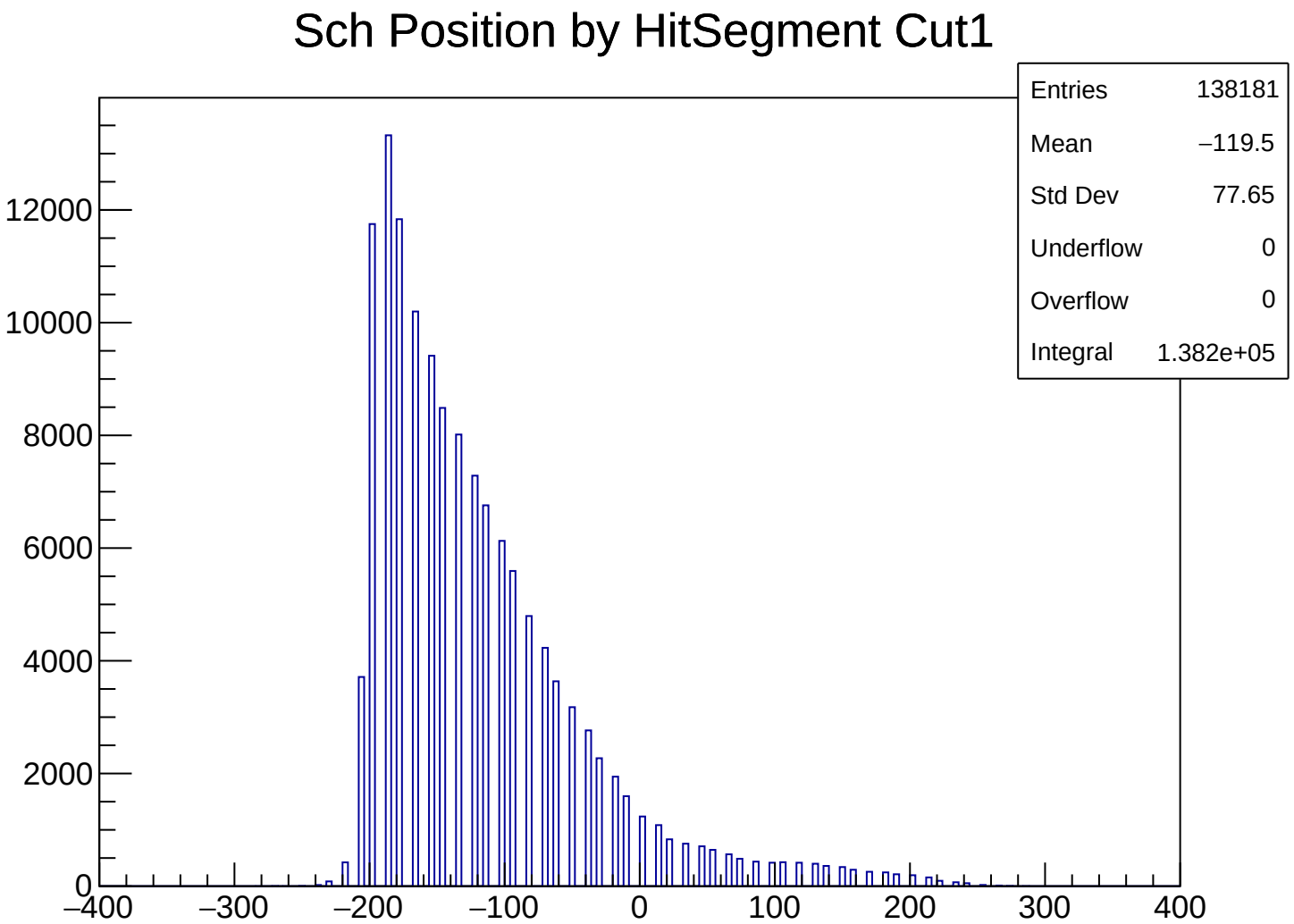

vpx[1]
Entries 184562
Mean –120.3
Std Dev 80.09
Underflow 4286
Overflow 0
Integral 1.803e+05
7000
6000
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

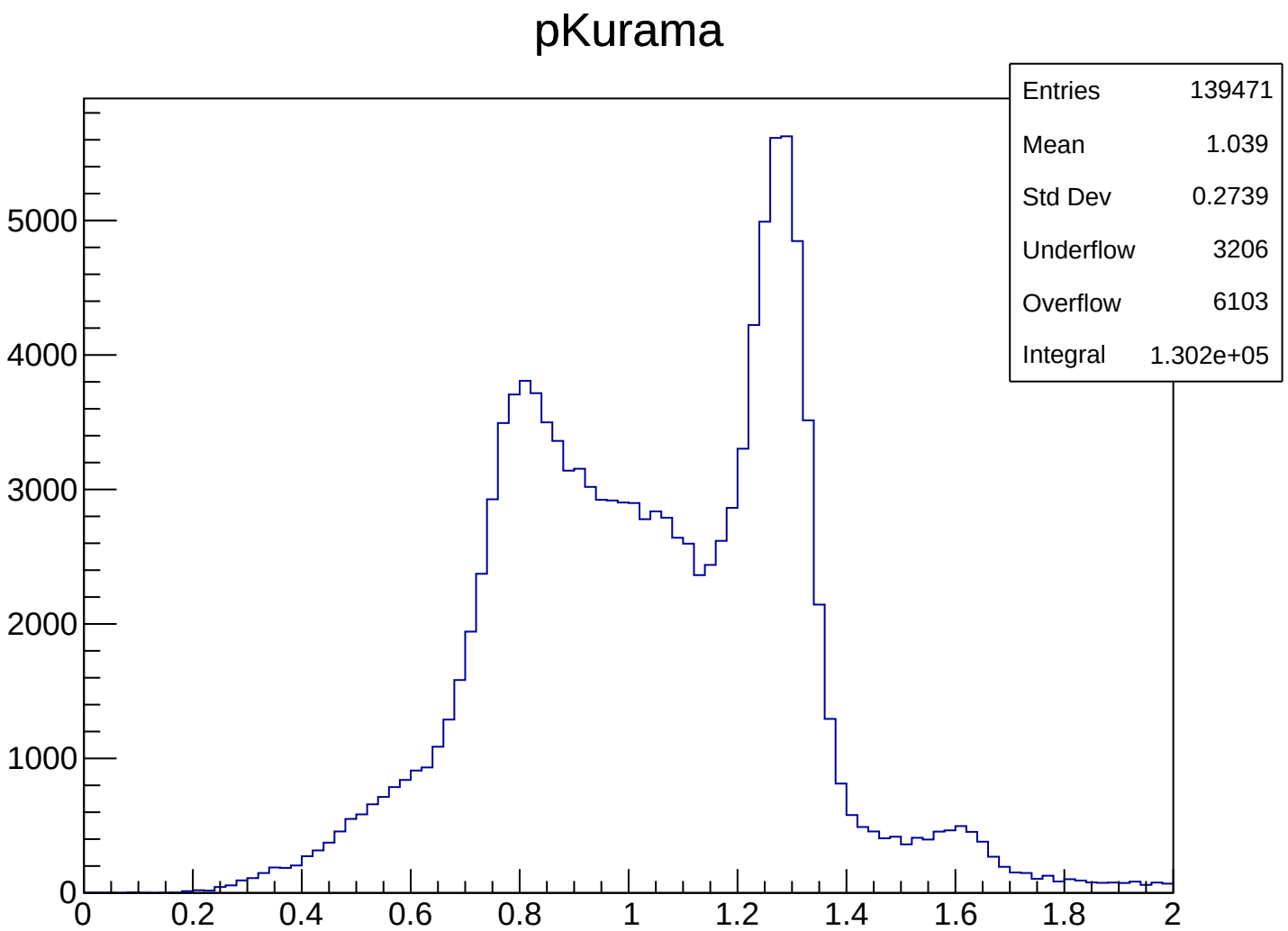
Sch Position by HitSegment

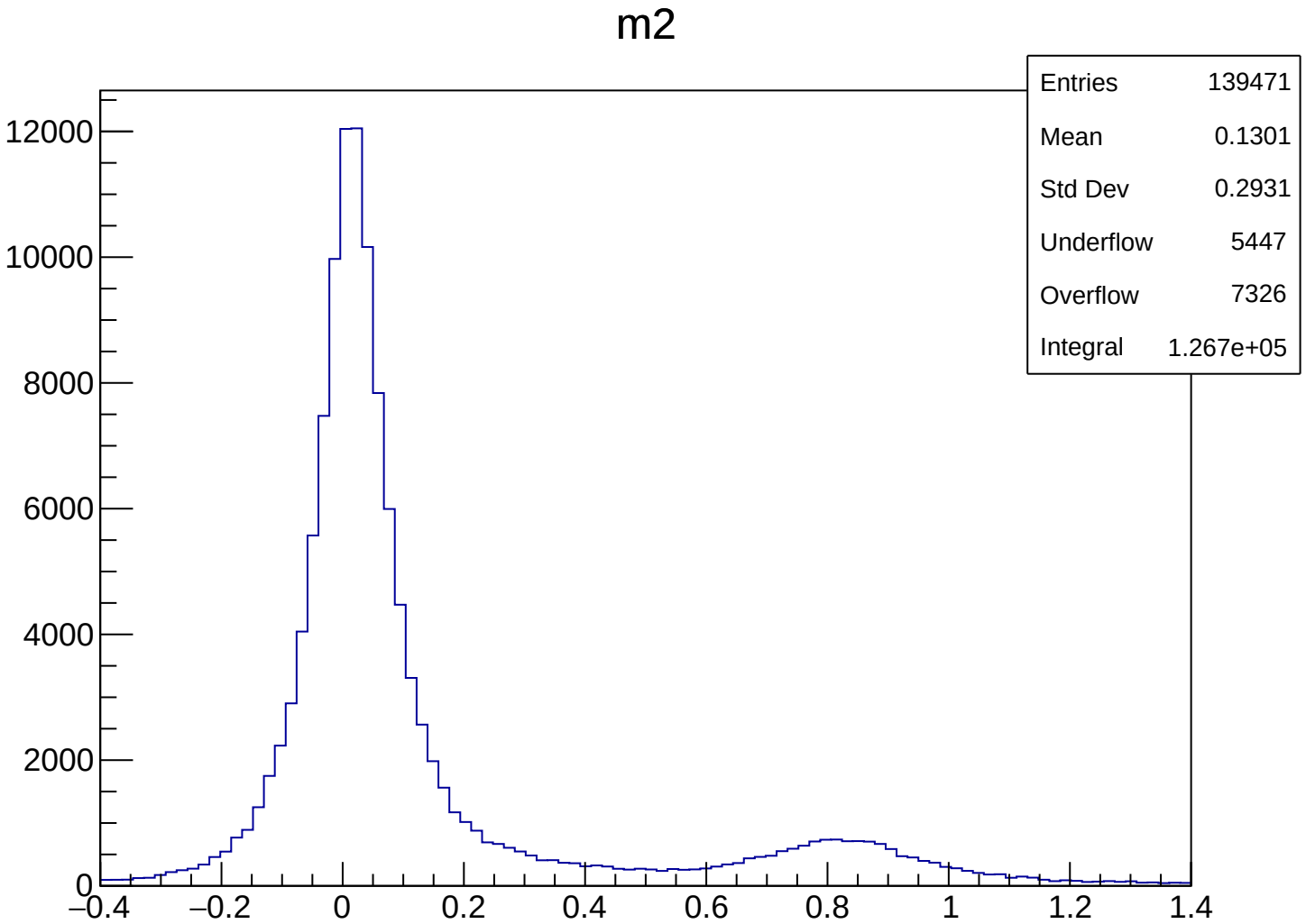


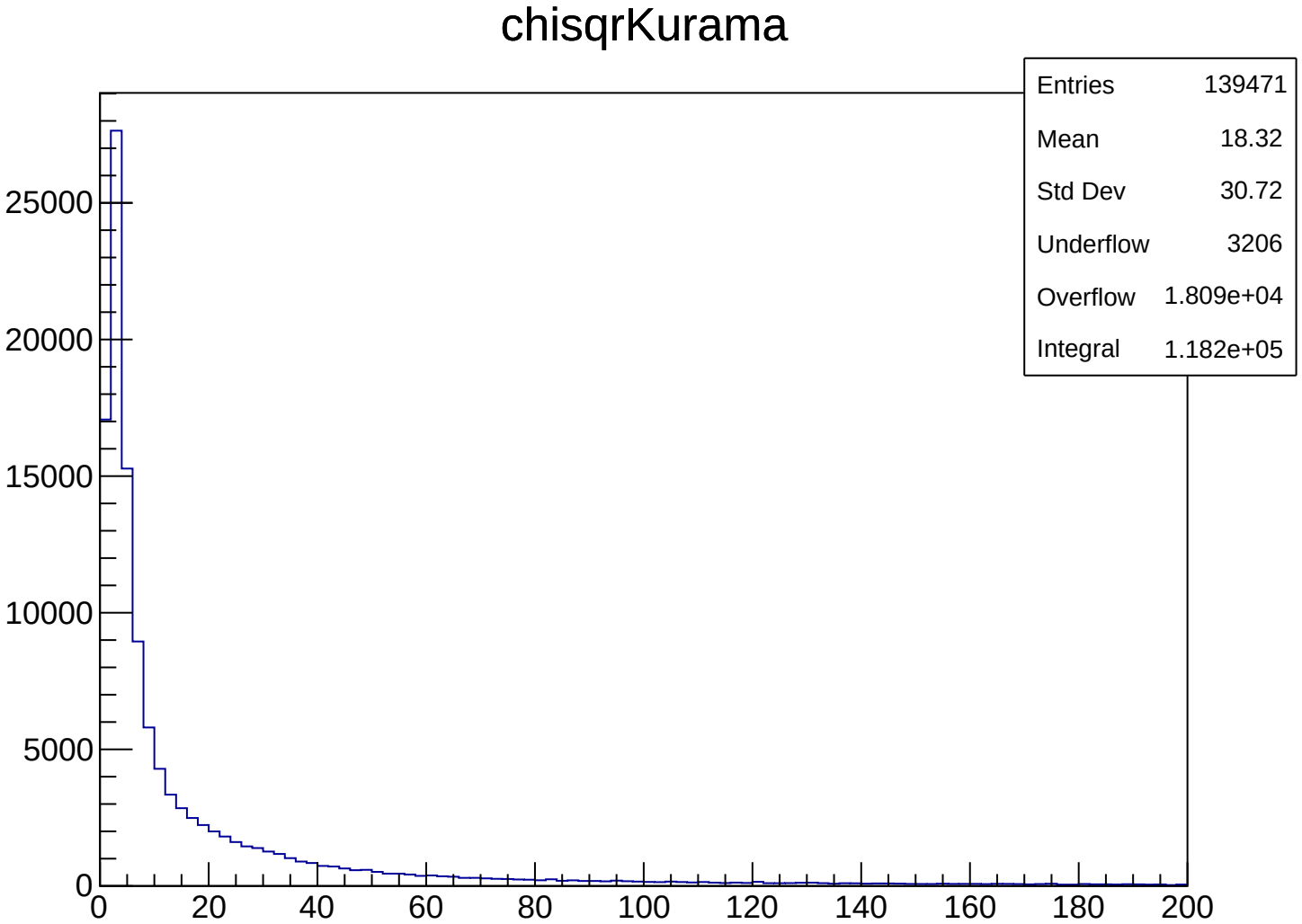

delta_x
Entries 184562
Mean 2.406
Std Dev 20.28
Underflow 7992
Overflow 1.174e+04
Integral 1.648e+05
12000
10000
8000
6000
4000
2000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

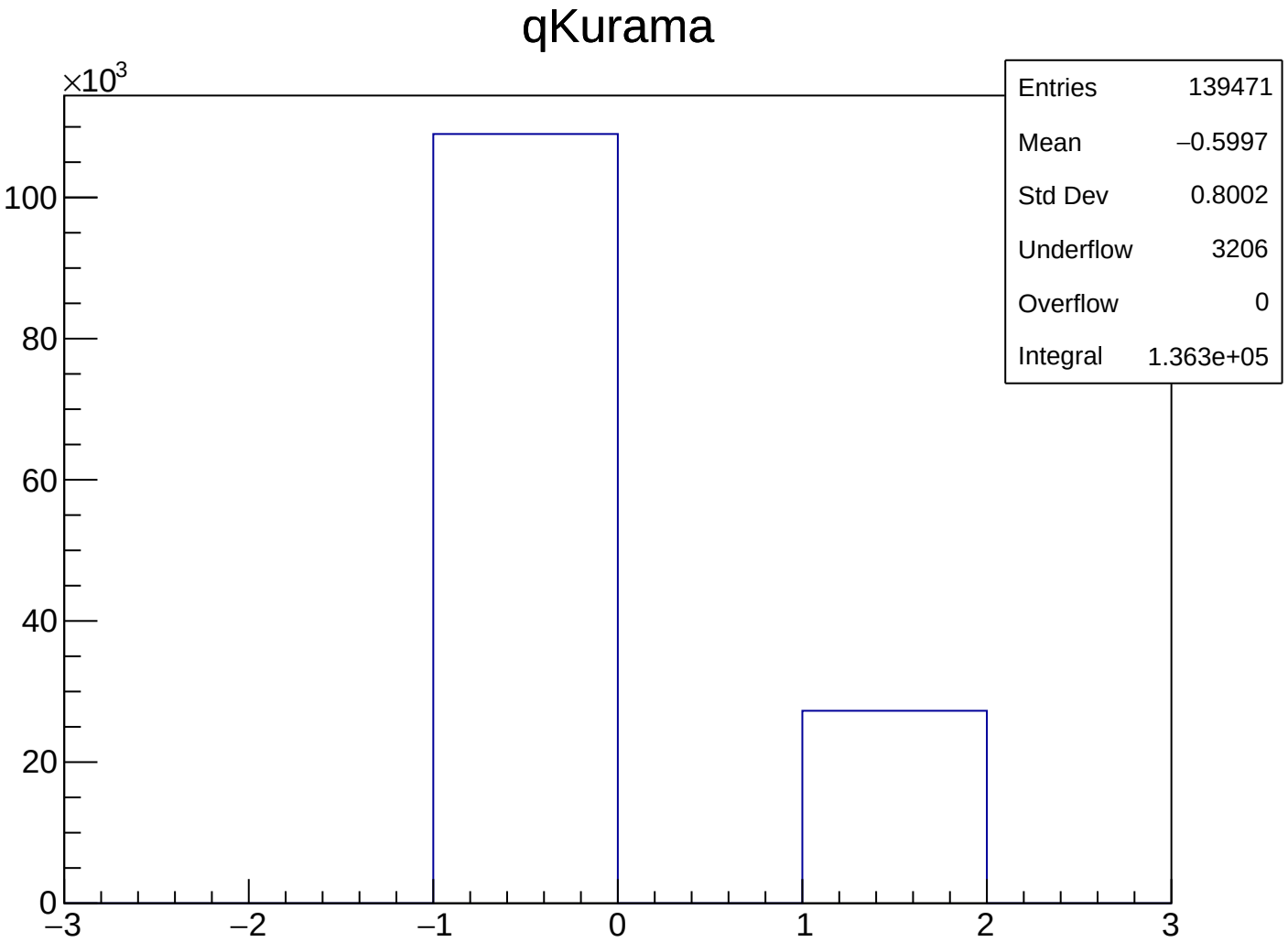

vpx[1] Cut1
Entries 138181
Mean –119.6
Std Dev 77.49
Underflow 0
Overflow 0
Integral 1.382e+05
6000
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

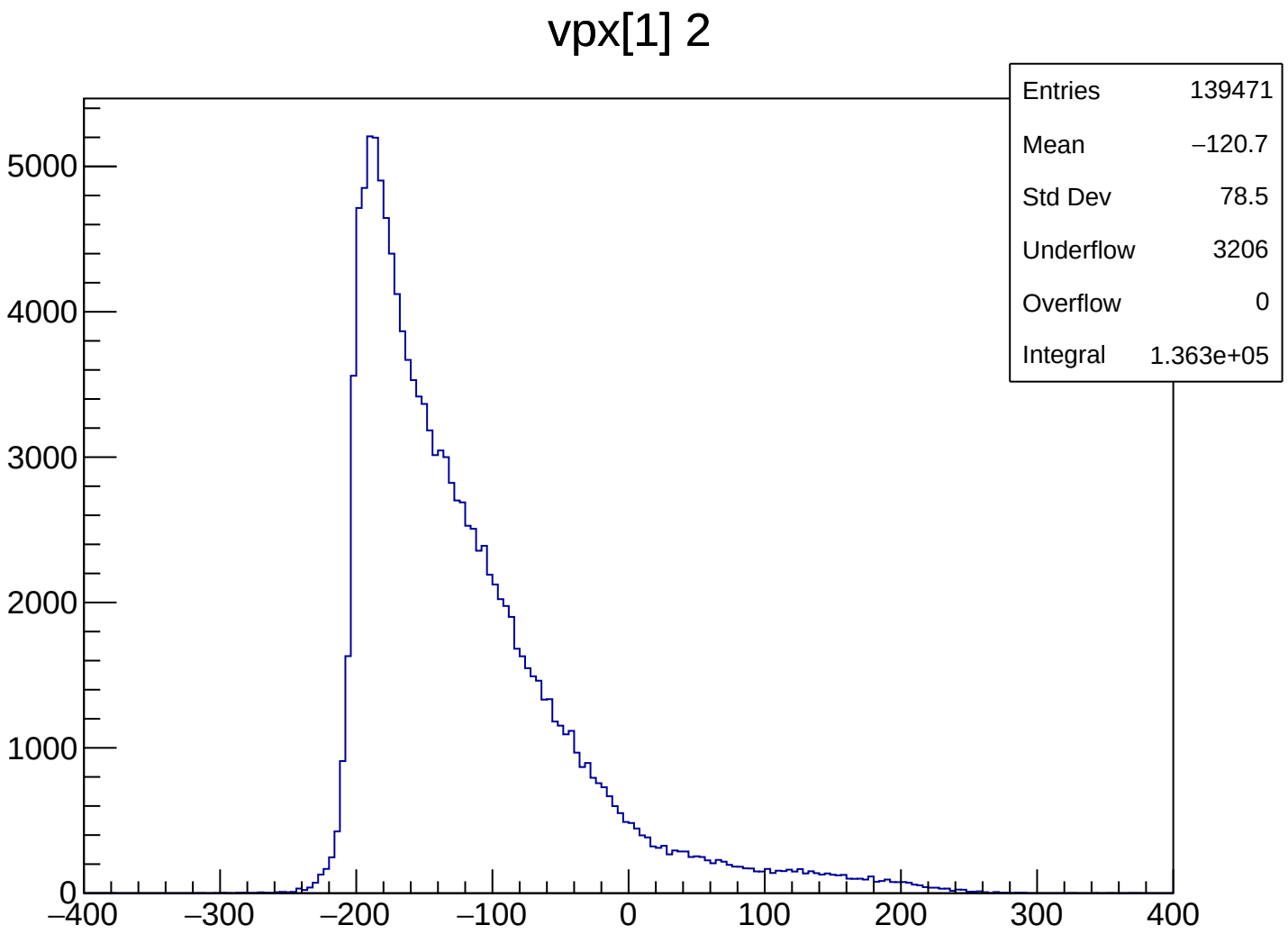

Sch Position by HitSegment Cut1
Entries 138181
Mean –119.5
Std Dev 77.65
Underflow 0
Overflow 0
Integral 1.382e+05
12000
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

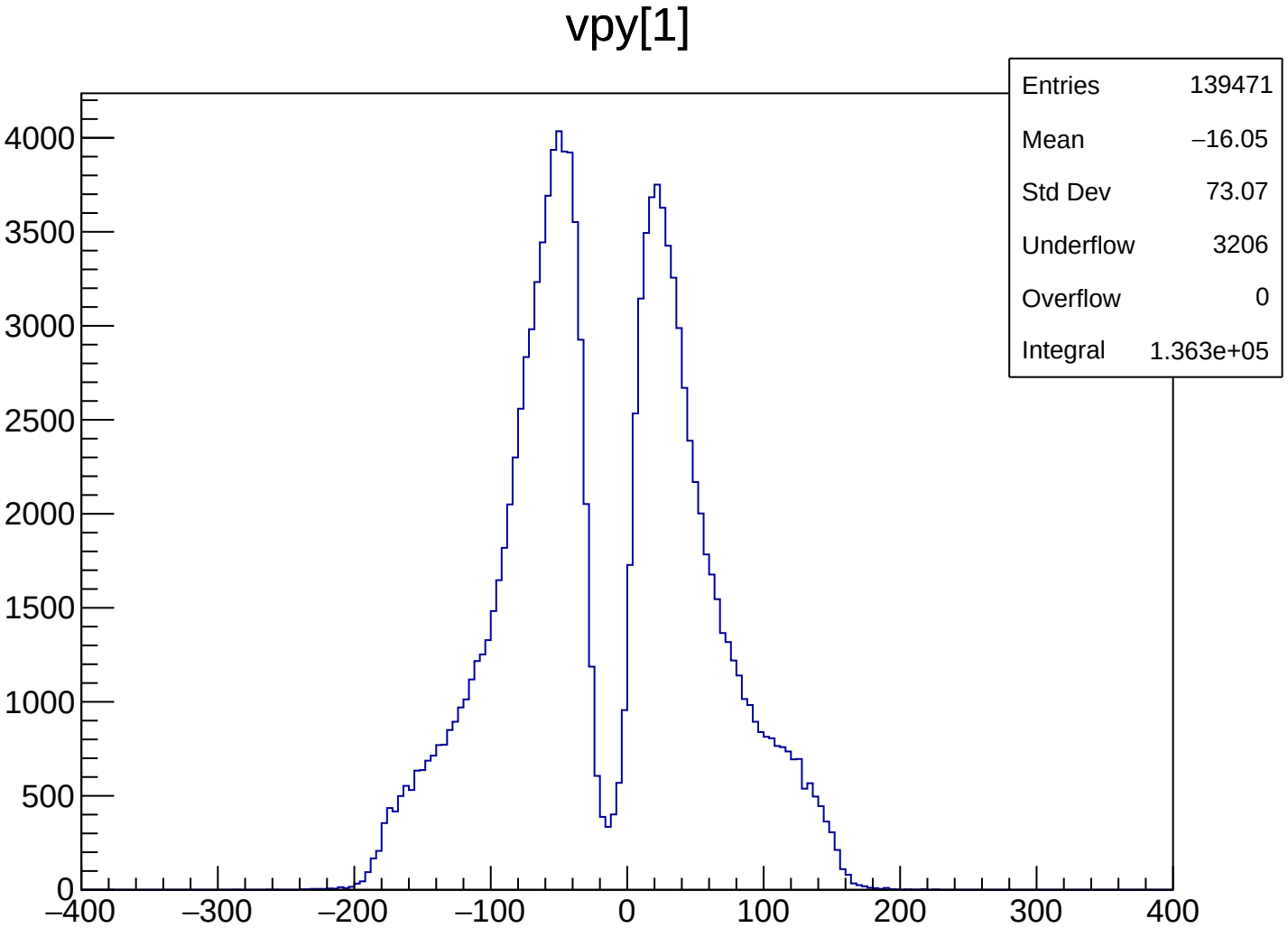

pKurama
Entries 139471
Mean 1.039
Std Dev 0.2739
Underflow 3206
Overflow 6103
Integral 1.302e+05
0
1000
2000
3000
4000
5000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

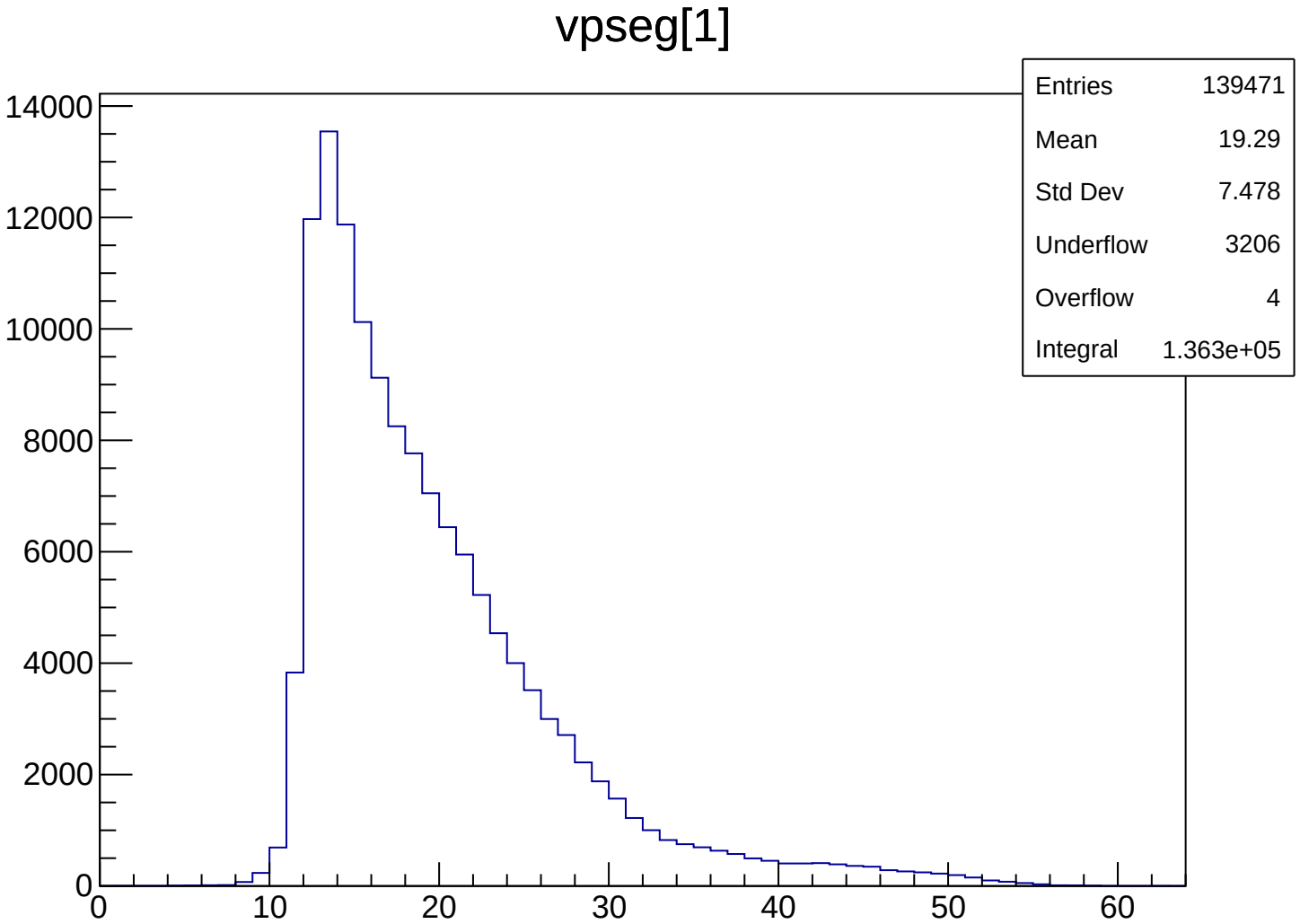

m2
Entries 139471
Mean 0.1301
Std Dev 0.2931
Underflow 5447
Overflow 7326
Integral 1.267e+05
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

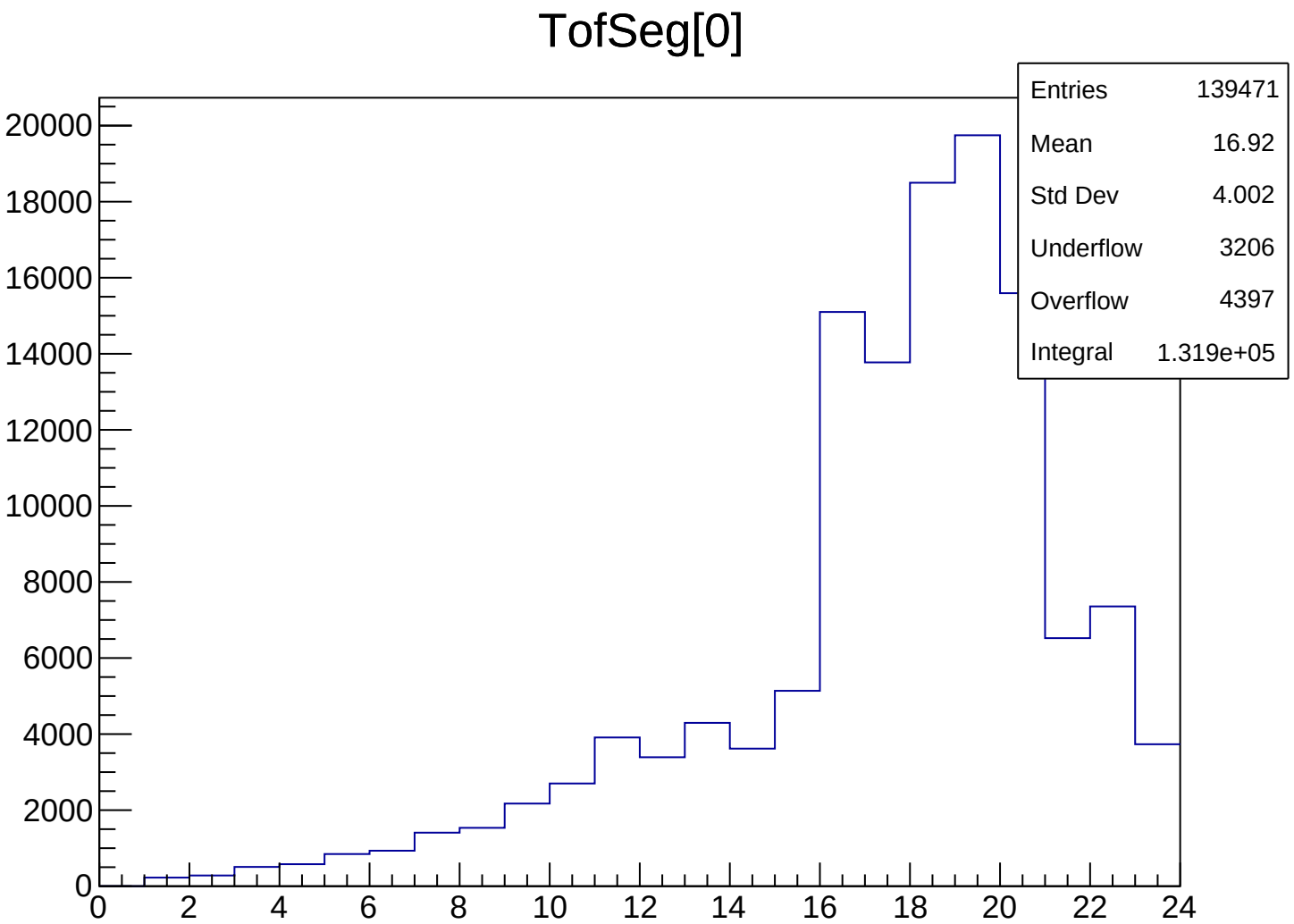

chisqrKurama
Entries 139471
Mean 18.32
Std Dev 30.72
Underflow 3206
Overflow 1.809e+04
Integral 1.182e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

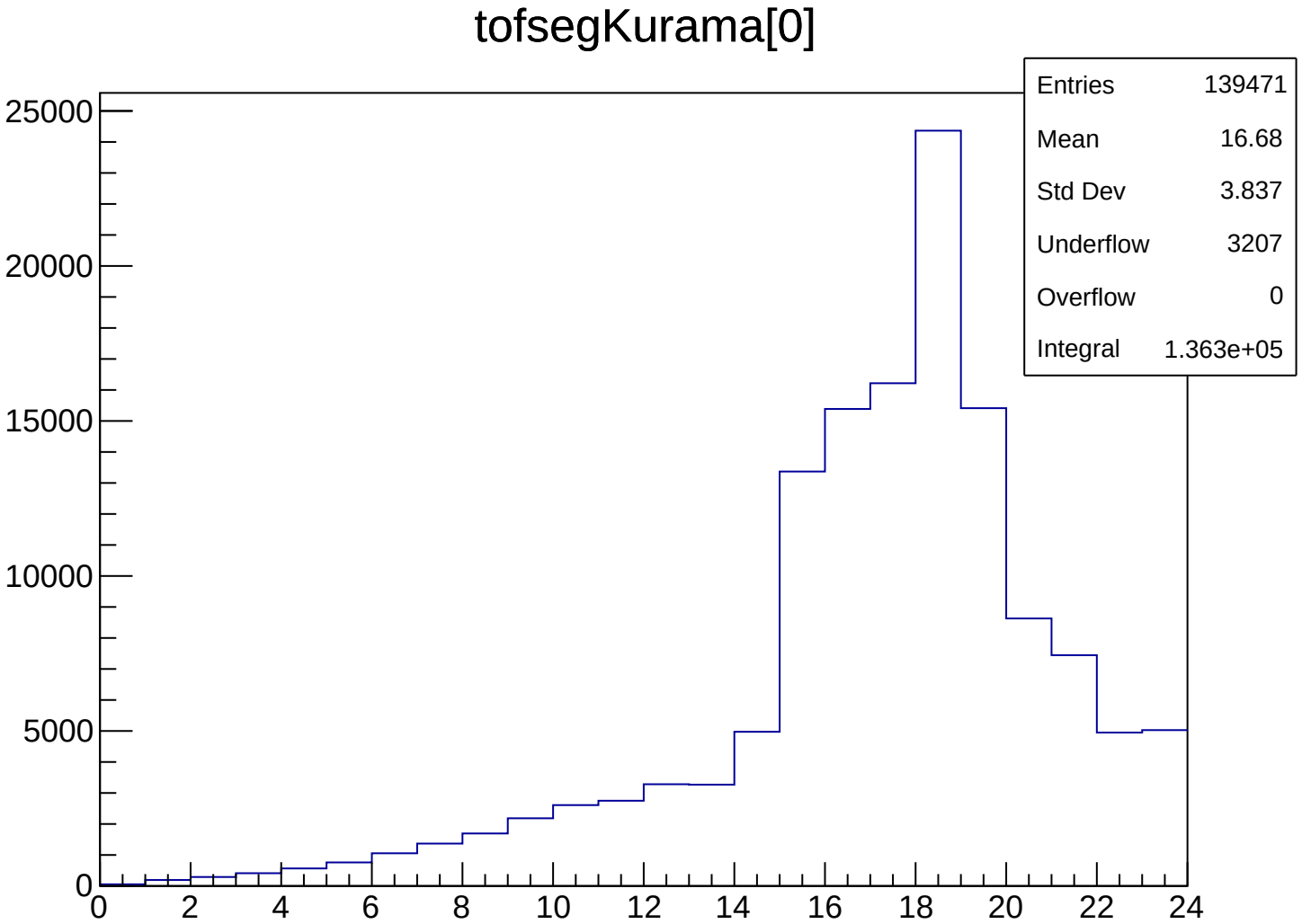

qKurama
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 139471
Mean −0.5997
Std Dev 0.8002
Underflow 3206
Overflow 0
Integral 1.363e+05

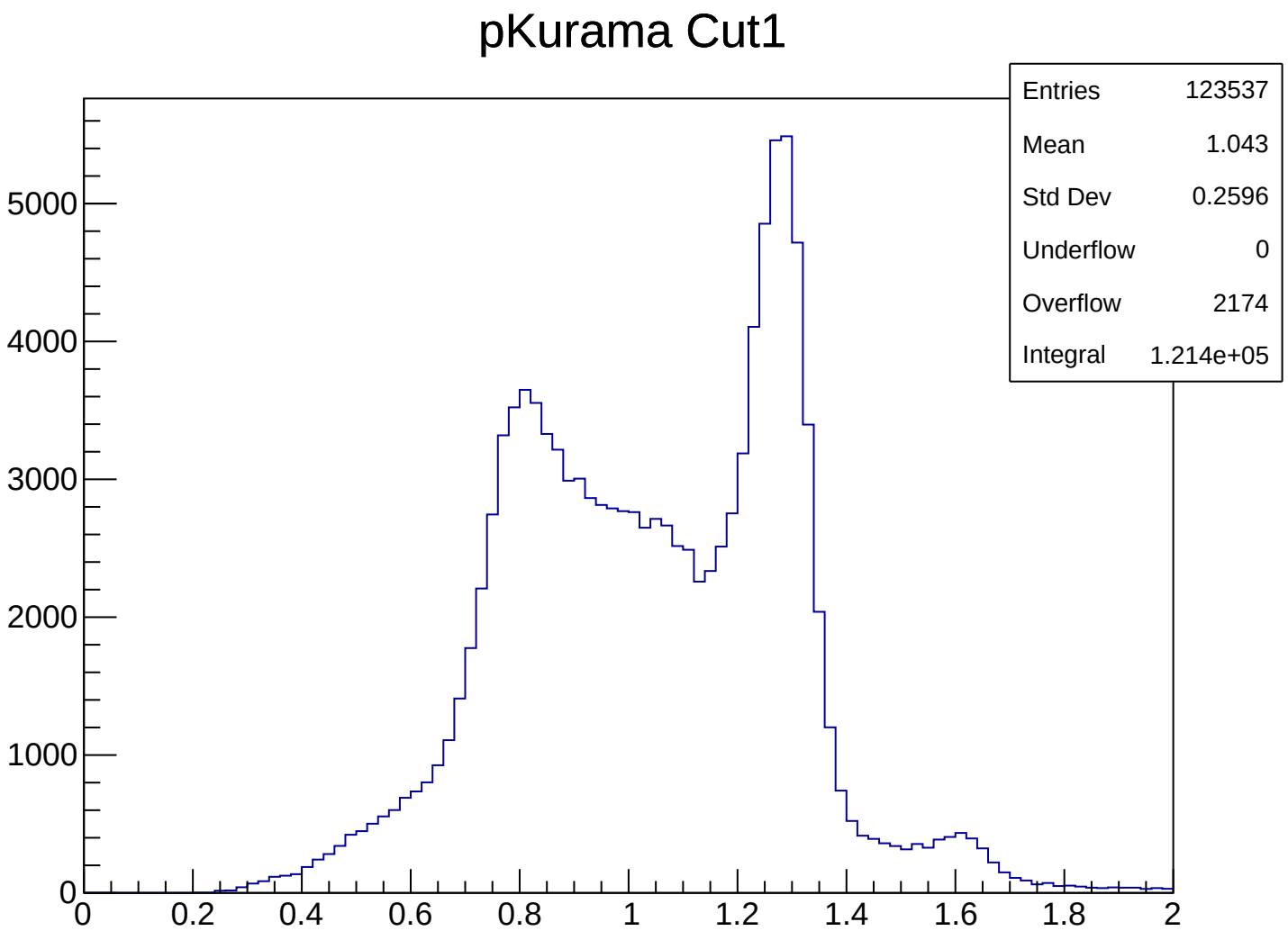

vpx[1] 2
Entries 139471
Mean –120.7
Std Dev 78.5
Underflow 3206
Overflow 0
Integral 1.363e+05
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

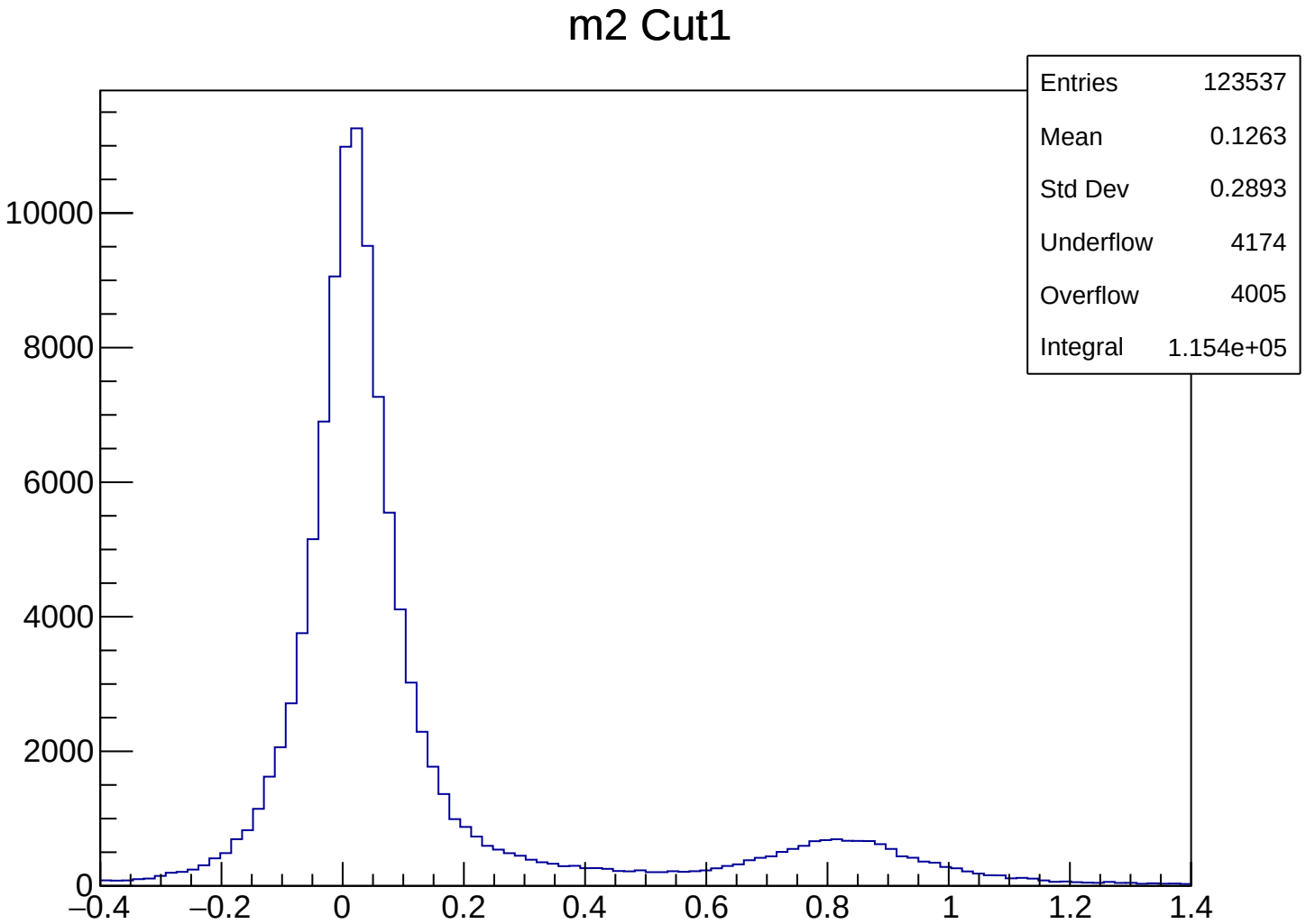

vpy[1]
Entries 139471
Mean –16.05
Std Dev 73.07
Underflow 3206
Overflow 0
Integral 1.363e+05
4000
3500
3000
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

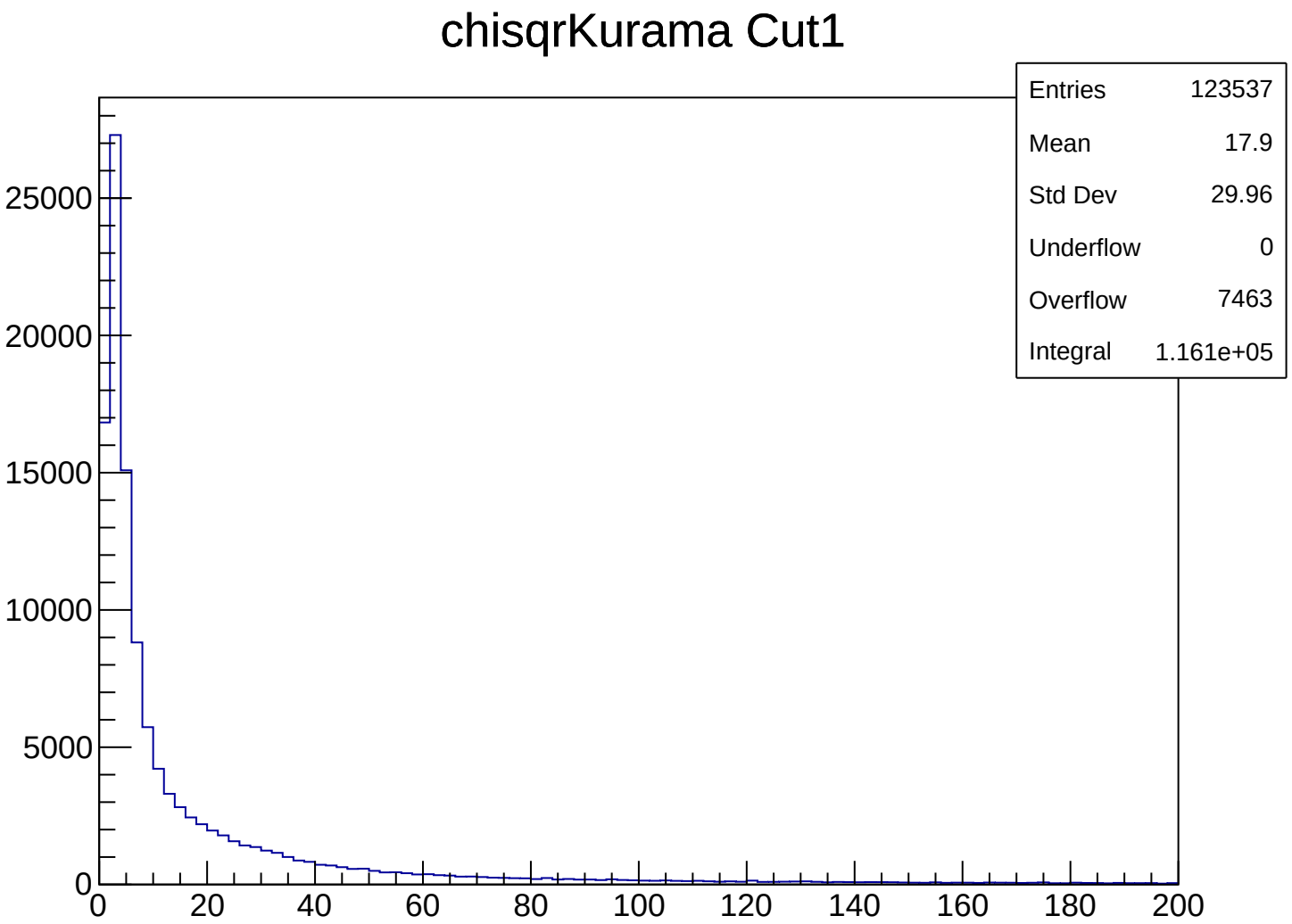

vpseg[1]
Entries 139471
Mean 19.29
Std Dev 7.478
Underflow 3206
Overflow 4
Integral 1.363e+05
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

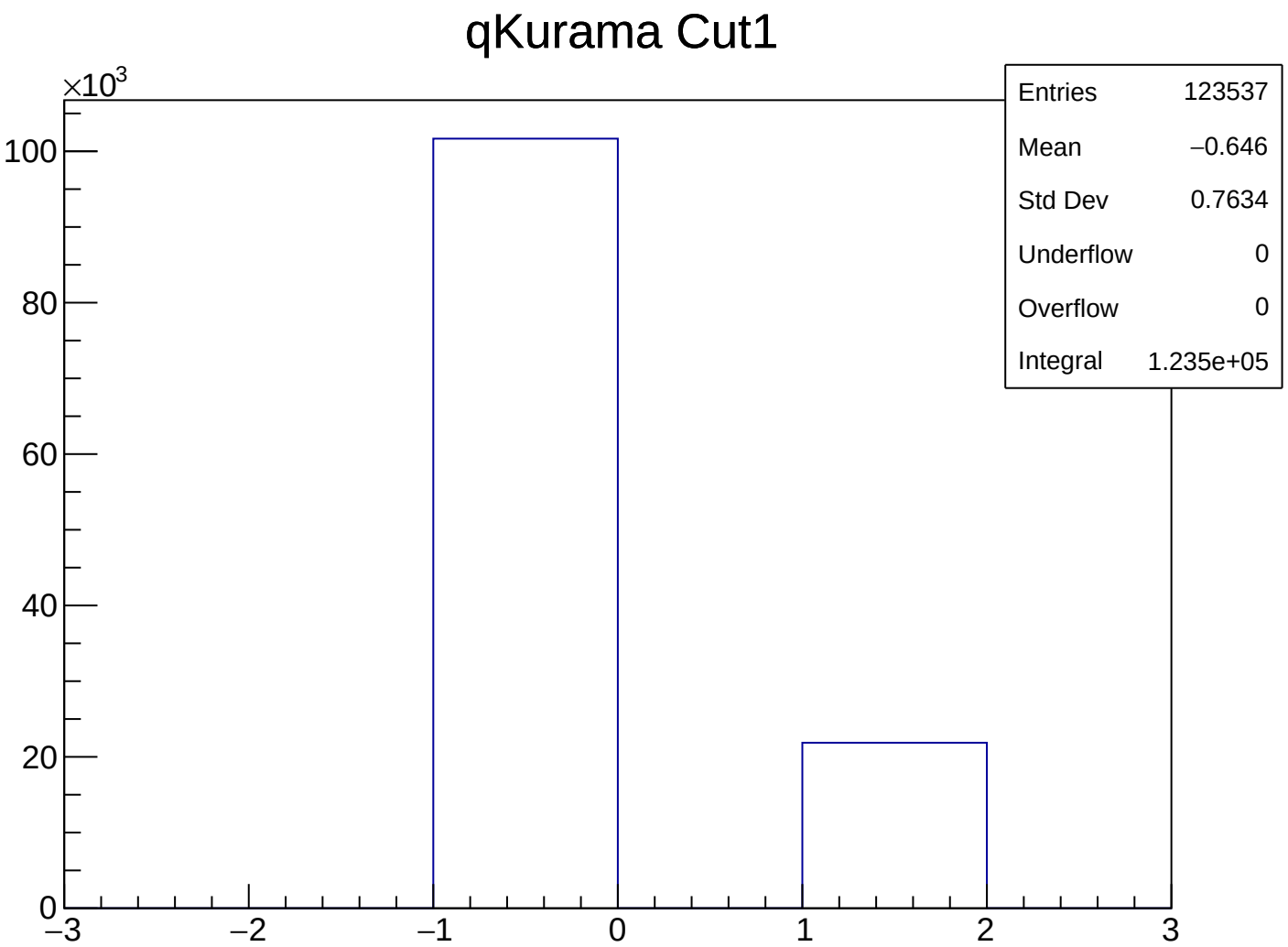

TofSeg[0]
Entries 139471
Mean 16.92
Std Dev 4.002
Underflow 3206
Overflow 4397
Integral 1.319e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

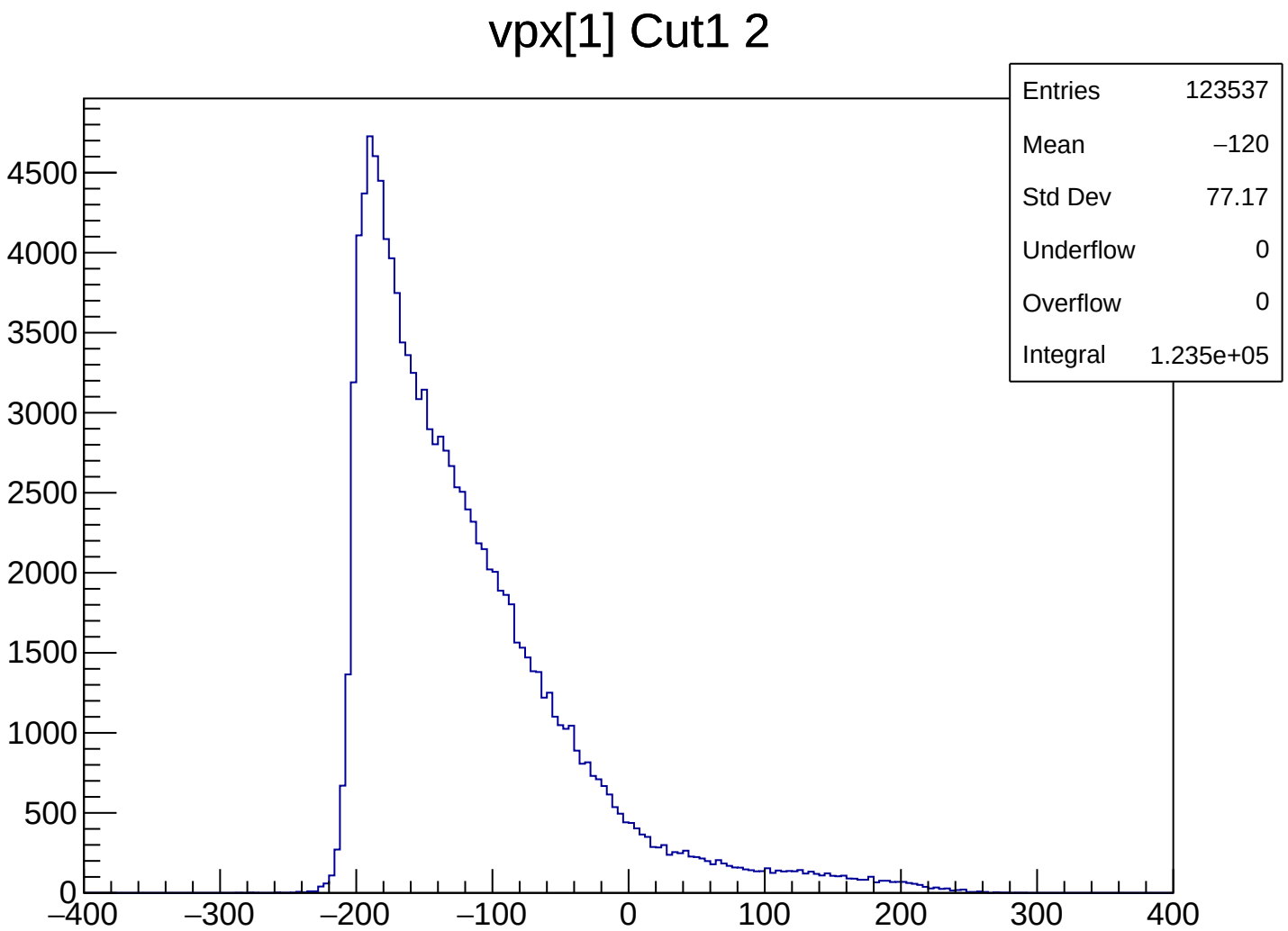

tofsegKurama[0]
Entries 139471
Mean 16.68
Std Dev 3.837
Underflow 3207
Overflow 0
Integral 1.363e+05
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

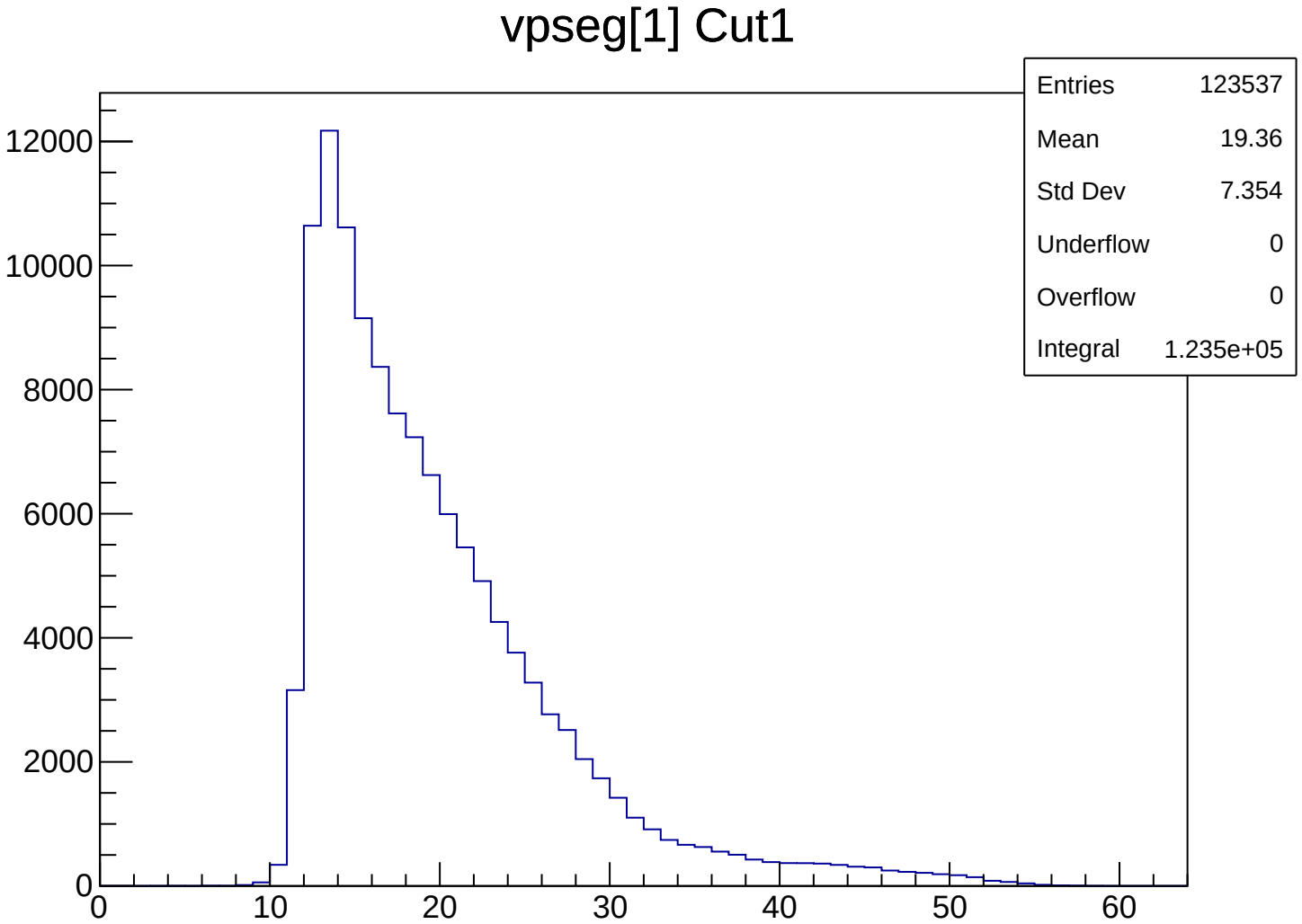

pKurama Cut1
Entries 123537
Mean 1.043
Std Dev 0.2596
Underflow 0
Overflow 2174
Integral 1.214e+05
0
1000
2000
3000
4000
5000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

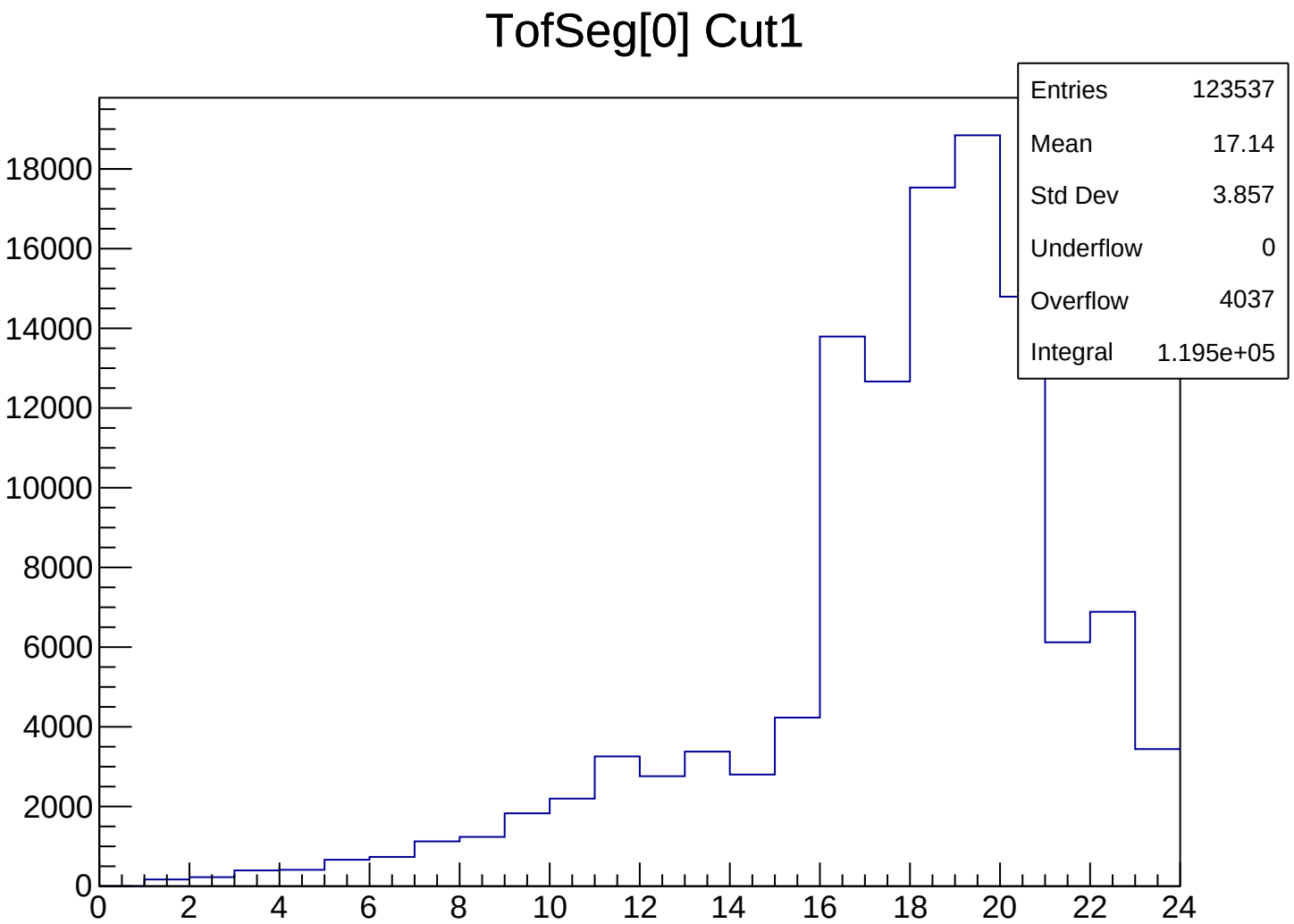

m2 Cut1
Entries 123537
Mean 0.1263
Std Dev 0.2893
Underflow 4174
Overflow 4005
Integral 1.154e+05
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

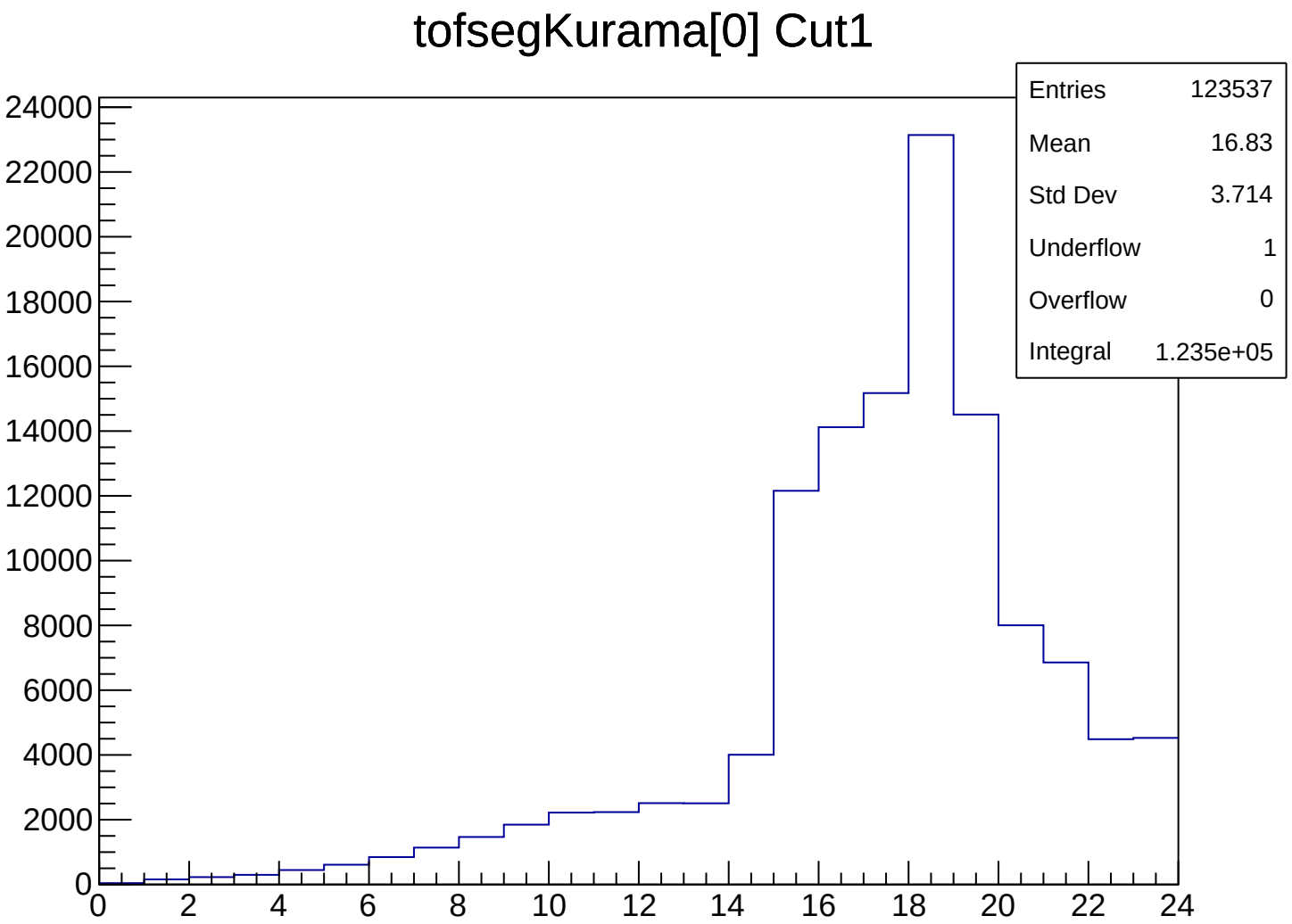

chisqrKurama Cut1
Entries 123537
Mean 17.9
Std Dev 29.96
Underflow 0
Overflow 7463
Integral 1.161e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

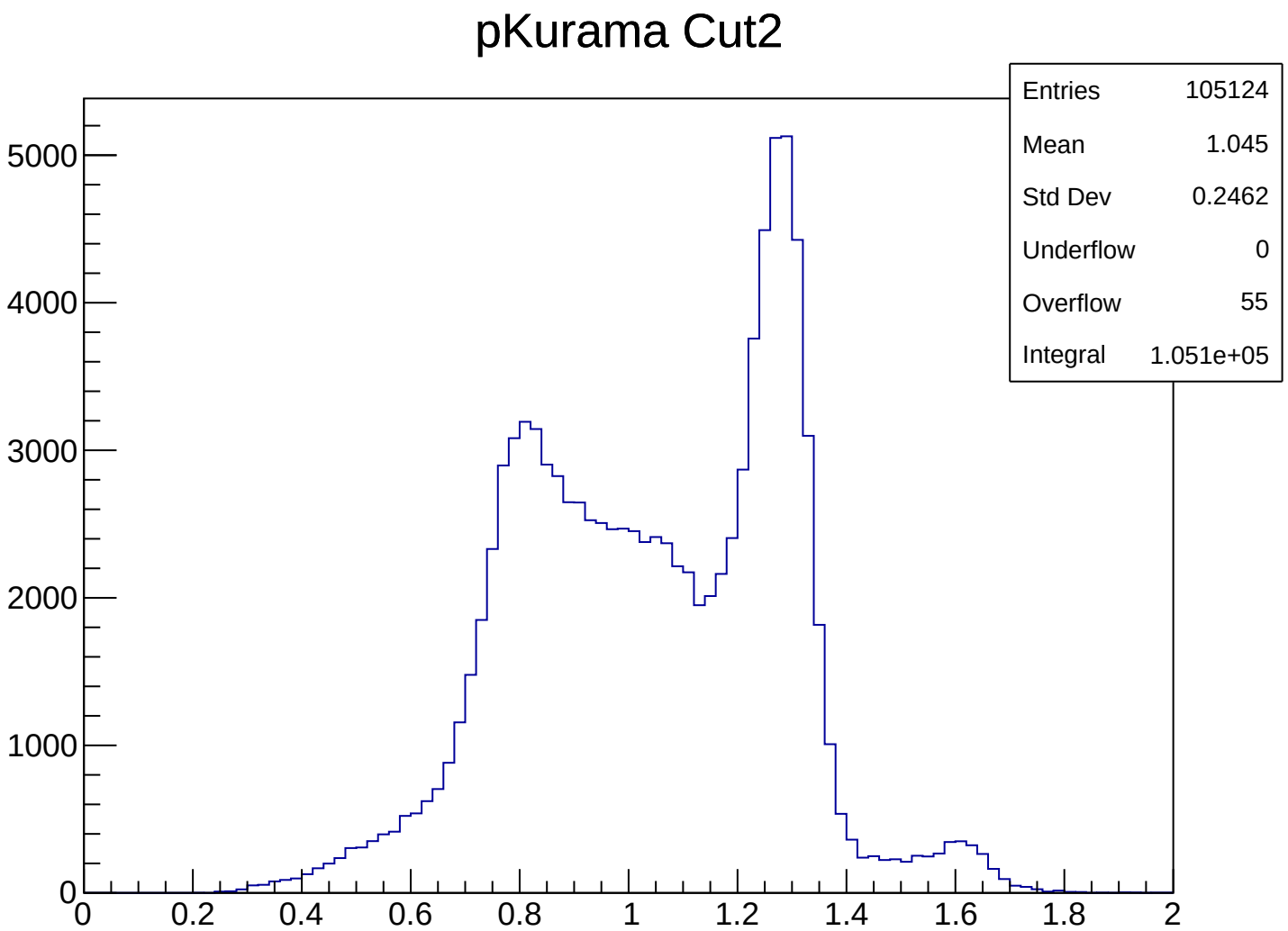

qKurama Cut1
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 123537
Mean −0.646
Std Dev 0.7634
Underflow 0
Overflow 0
Integral 1.235e+05

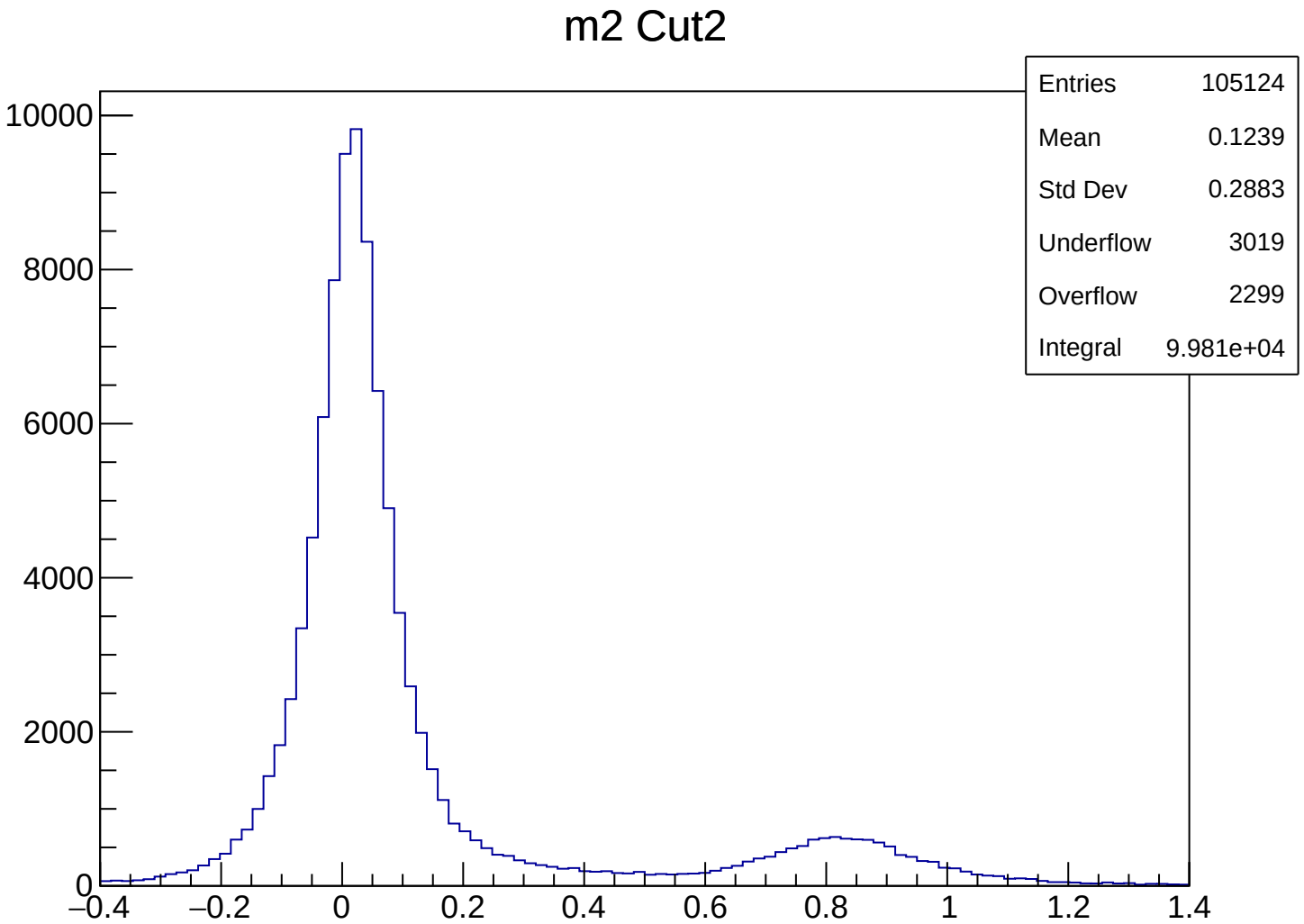

vpx[1] Cut1 2
Entries 123537
Mean –120
Std Dev 77.17
Underflow 0
Overflow 0
Integral 1.235e+05
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

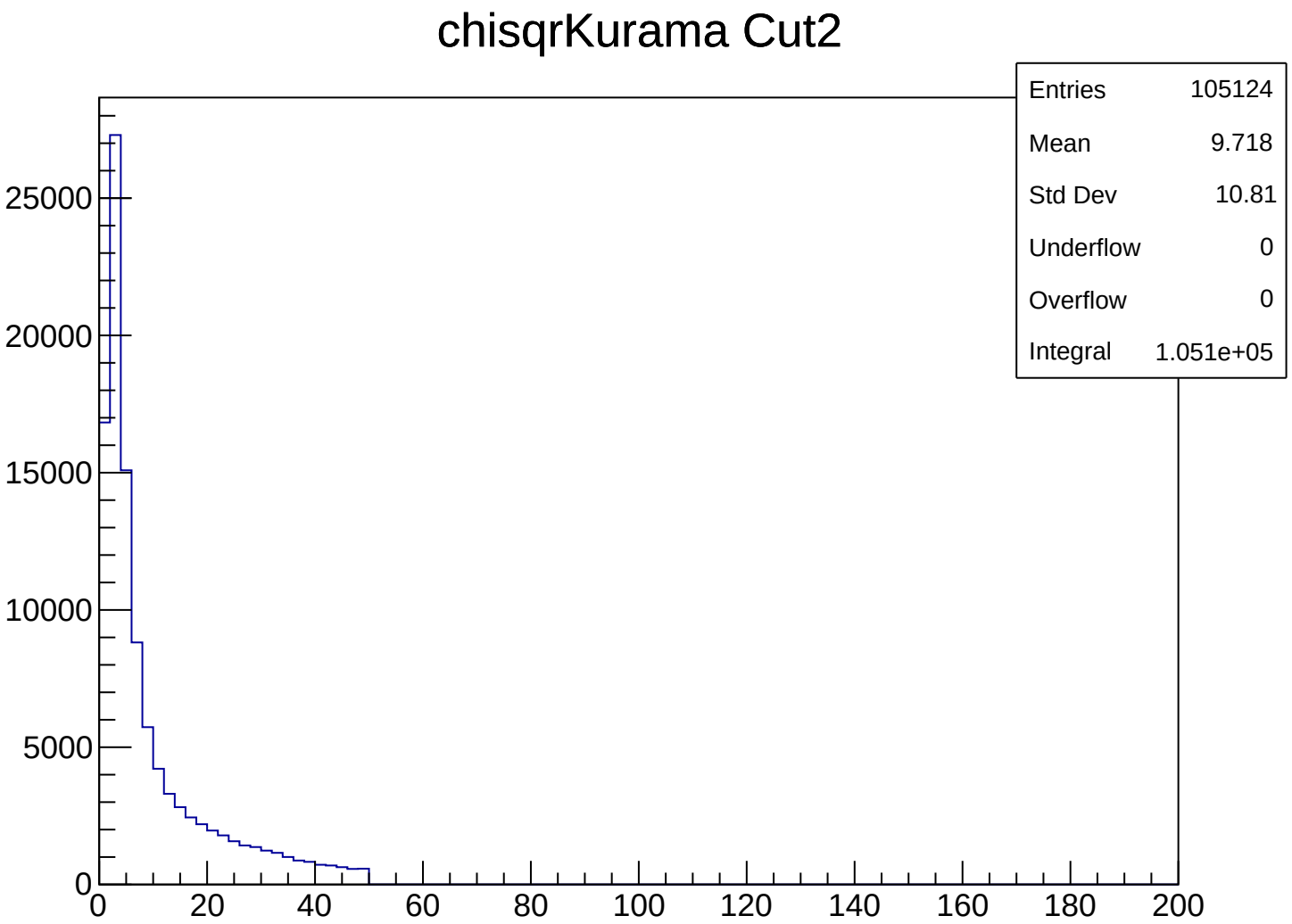

vpseg[1] Cut1
Entries 123537
Mean 19.36
Std Dev 7.354
Underflow 0
Overflow 0
Integral 1.235e+05
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

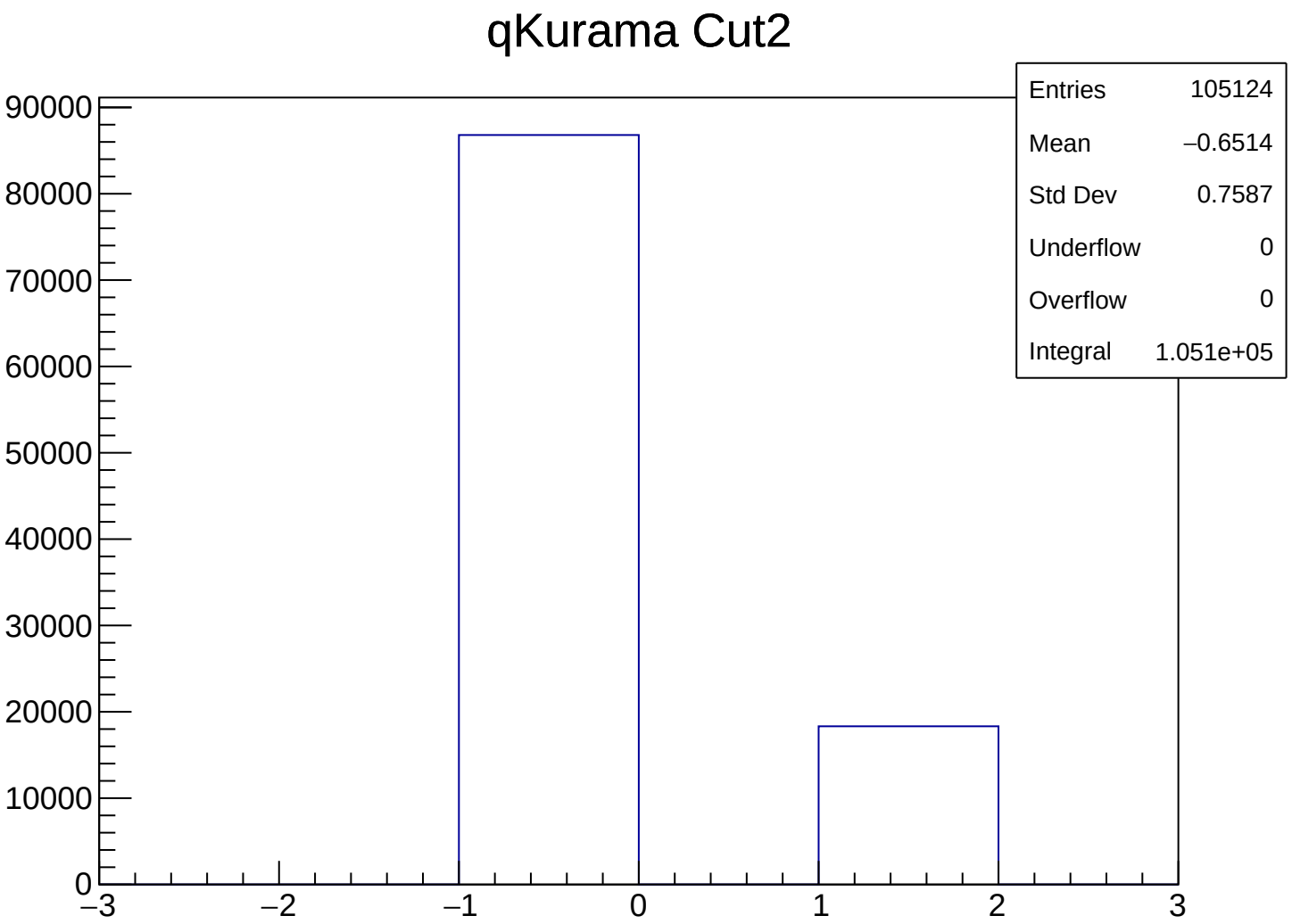

TofSeg[0] Cut1
Entries 123537
Mean 17.14
Std Dev 3.857
Underflow 0
Overflow 4037
Integral 1.195e+05
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
0
2
4
6
8
10
12
14
16
18
20
22
24

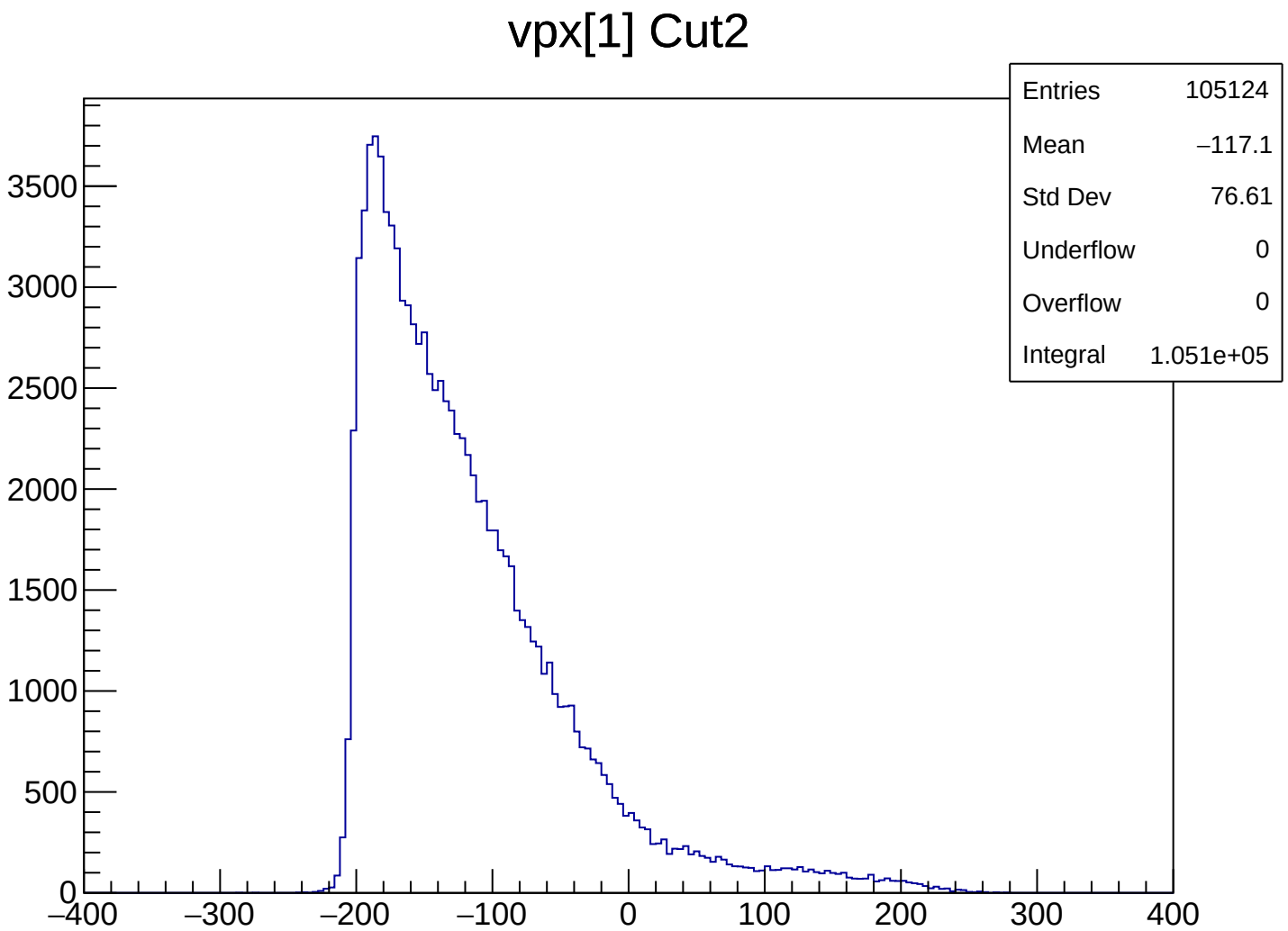

tofsegKurama[0] Cut1
Entries 123537
Mean 16.83
Std Dev 3.714
Underflow 1
Overflow 0
Integral 1.235e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

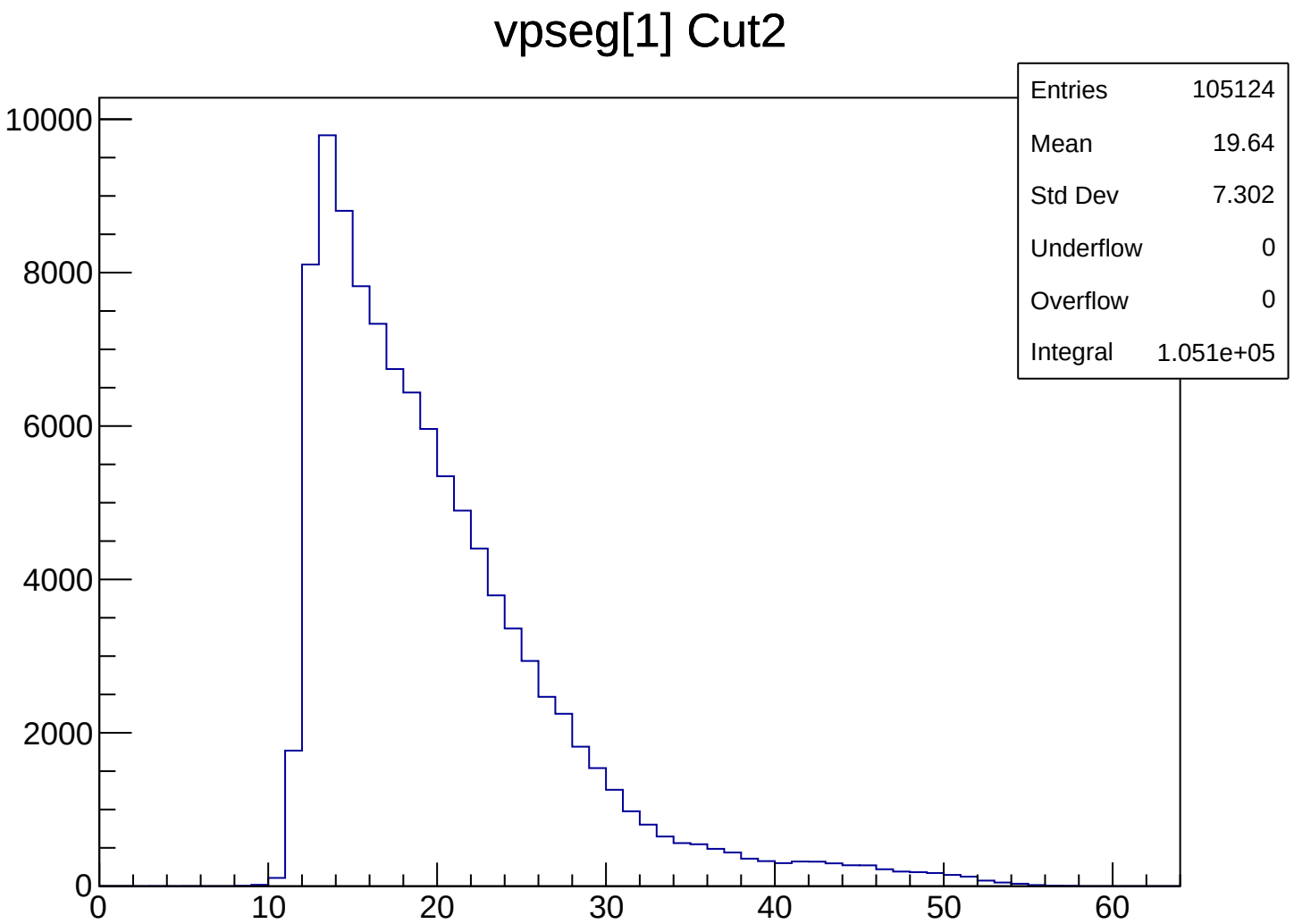

pKurama Cut2
Entries 105124
Mean 1.045
Std Dev 0.2462
Underflow 0
Overflow 55
Integral 1.051e+05
0
1000
2000
3000
4000
5000
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

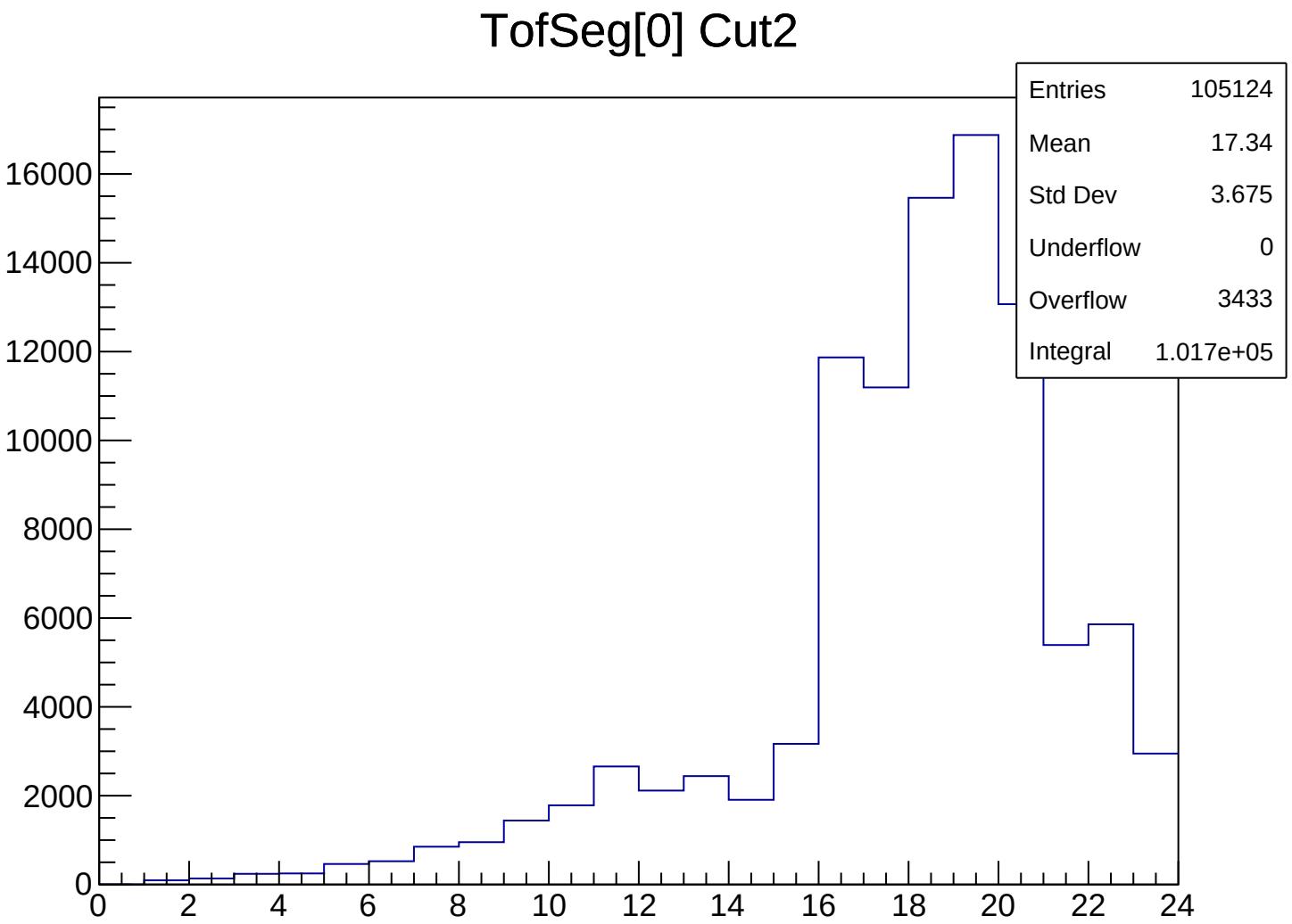

m2 Cut2
Entries 105124
Mean 0.1239
Std Dev 0.2883
Underflow 3019
Overflow 2299
Integral 9.981e+04
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

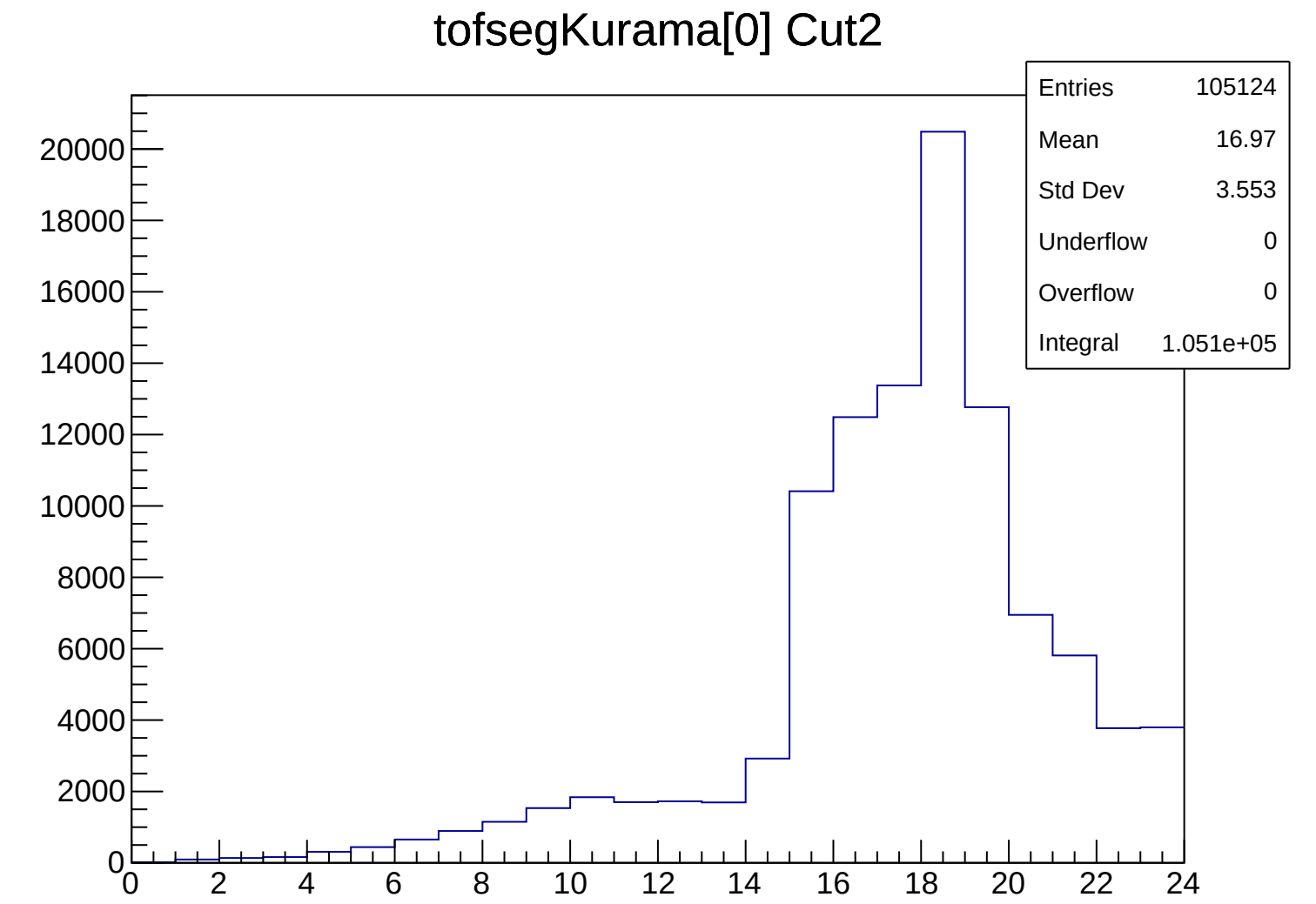

chisqrKurama Cut2
Entries 105124
Mean 9.718
Std Dev 10.81
Underflow 0
Overflow 0
Integral 1.051e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

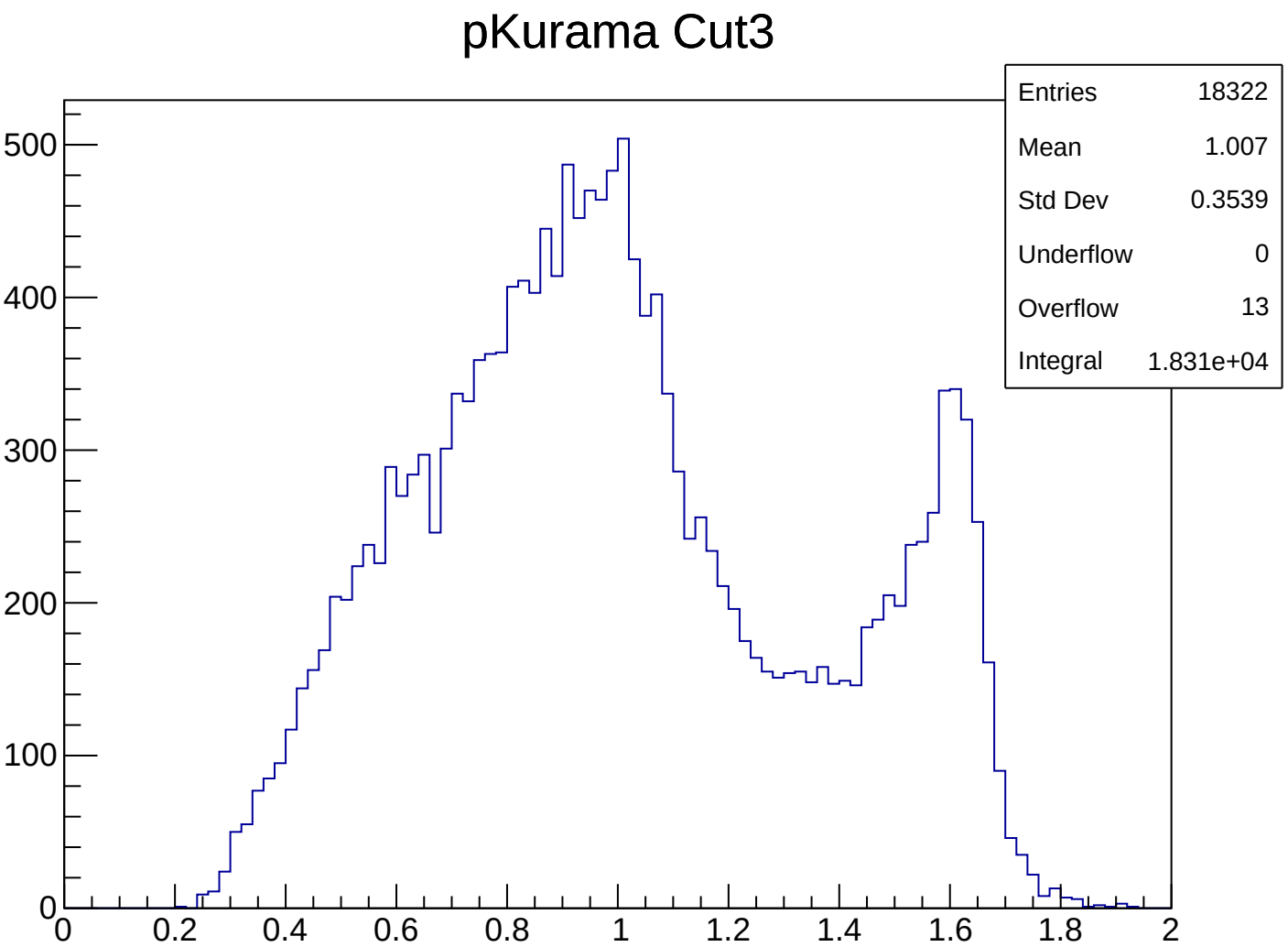

qKurama Cut2
Entries 105124
Mean –0.6514
Std Dev 0.7587
Underflow 0
Overflow 0
Integral 1.051e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
–3
–2
–1
0
1
2
3

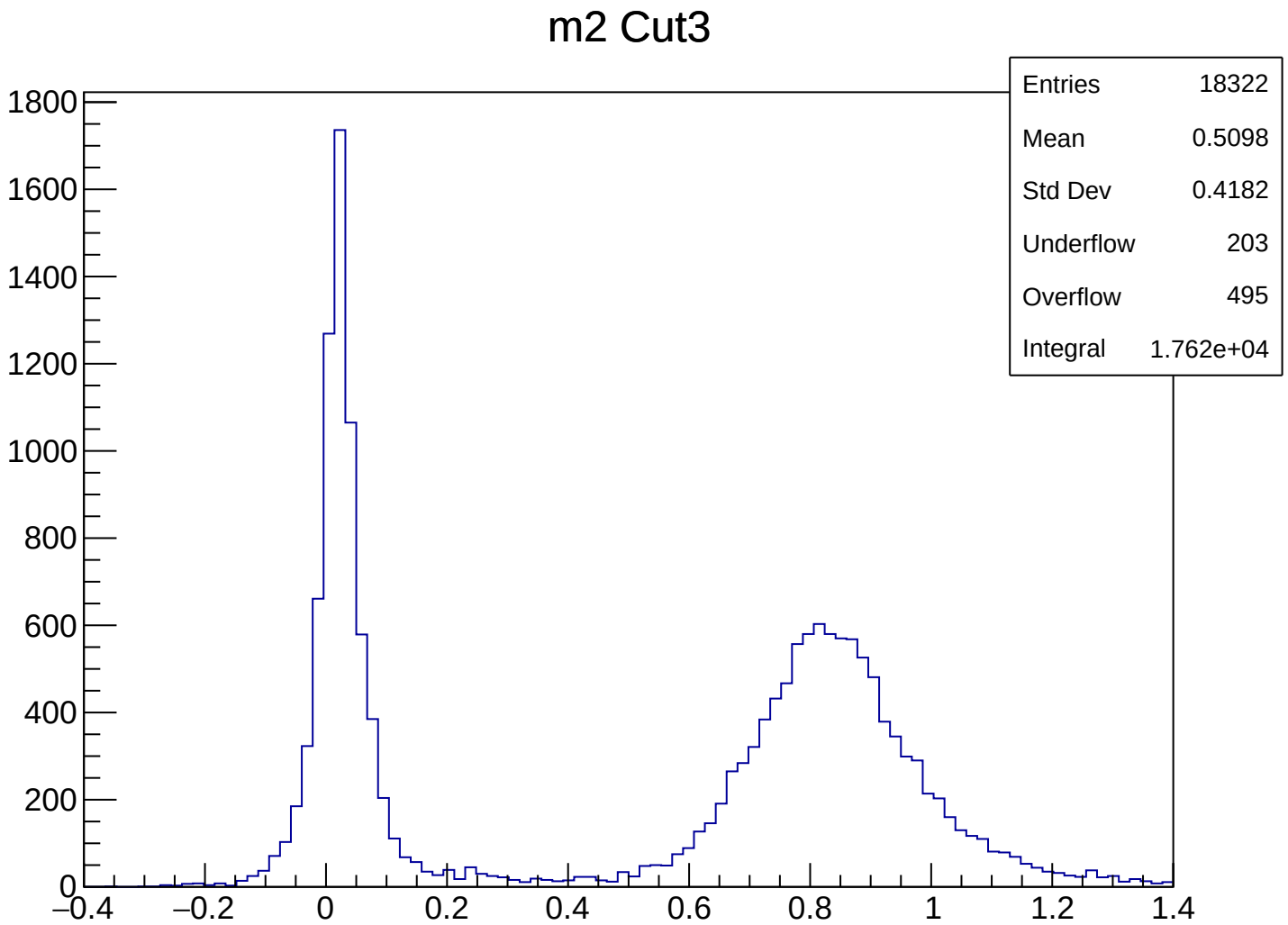

vpx[1] Cut2
Entries 105124
Mean –117.1
Std Dev 76.61
Underflow 0
Overflow 0
Integral 1.051e+05
3500
3000
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

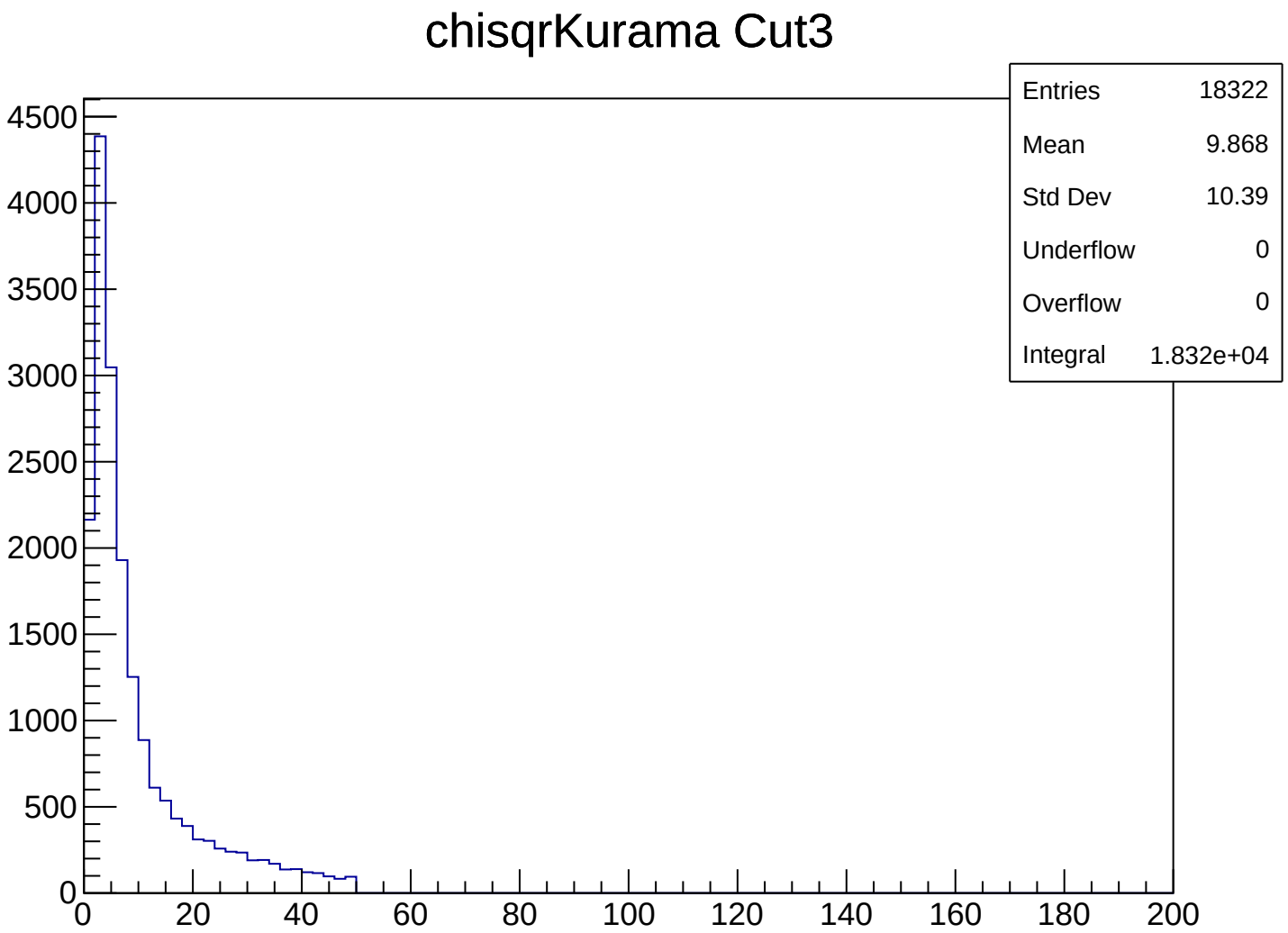

vpseg[1] Cut2
Entries 105124
Mean 19.64
Std Dev 7.302
Underflow 0
Overflow 0
Integral 1.051e+05
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

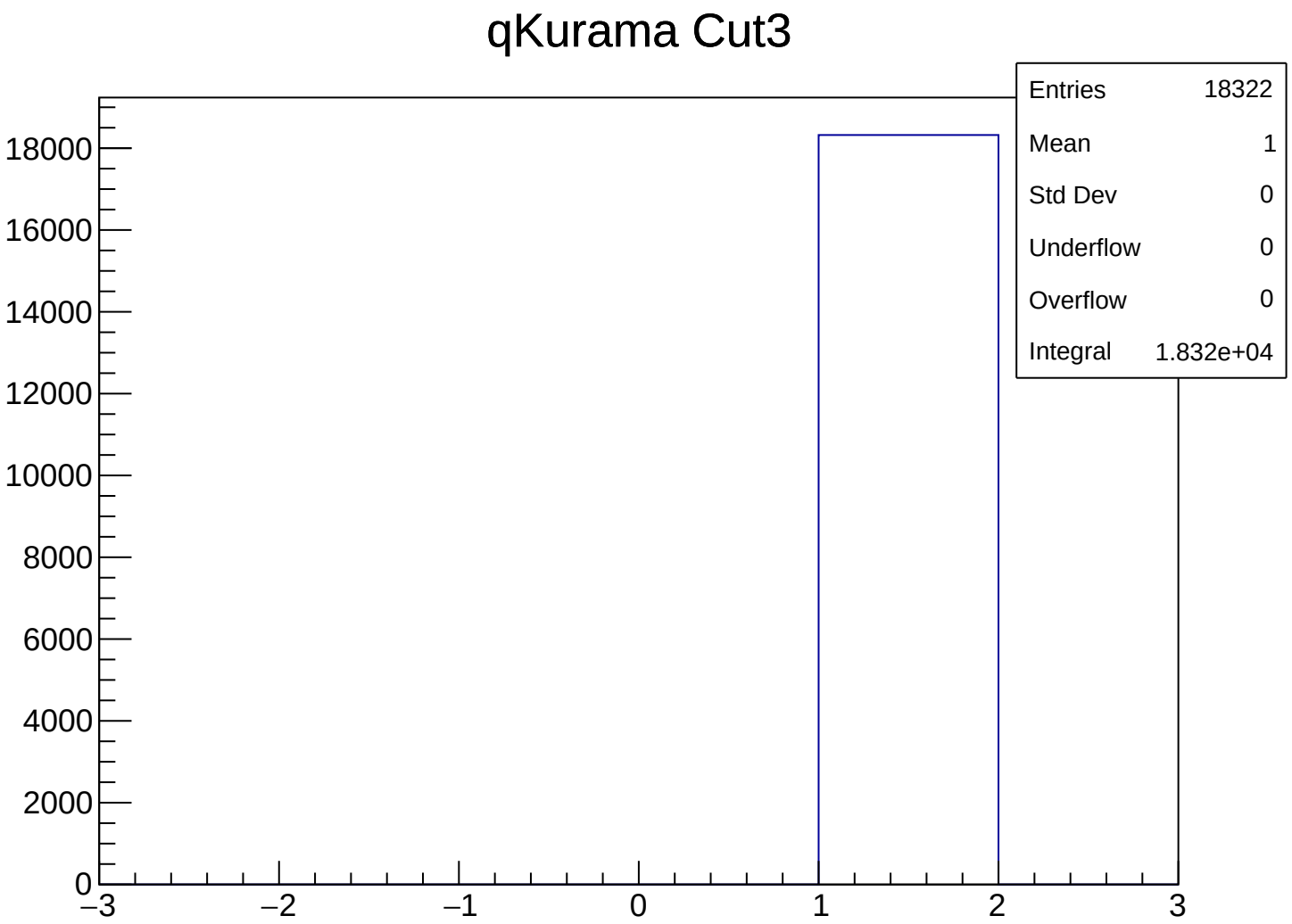

TofSeg[0] Cut2
Entries 105124
Mean 17.34
Std Dev 3.675
Underflow 0
Overflow 3433
Integral 1.017e+05
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

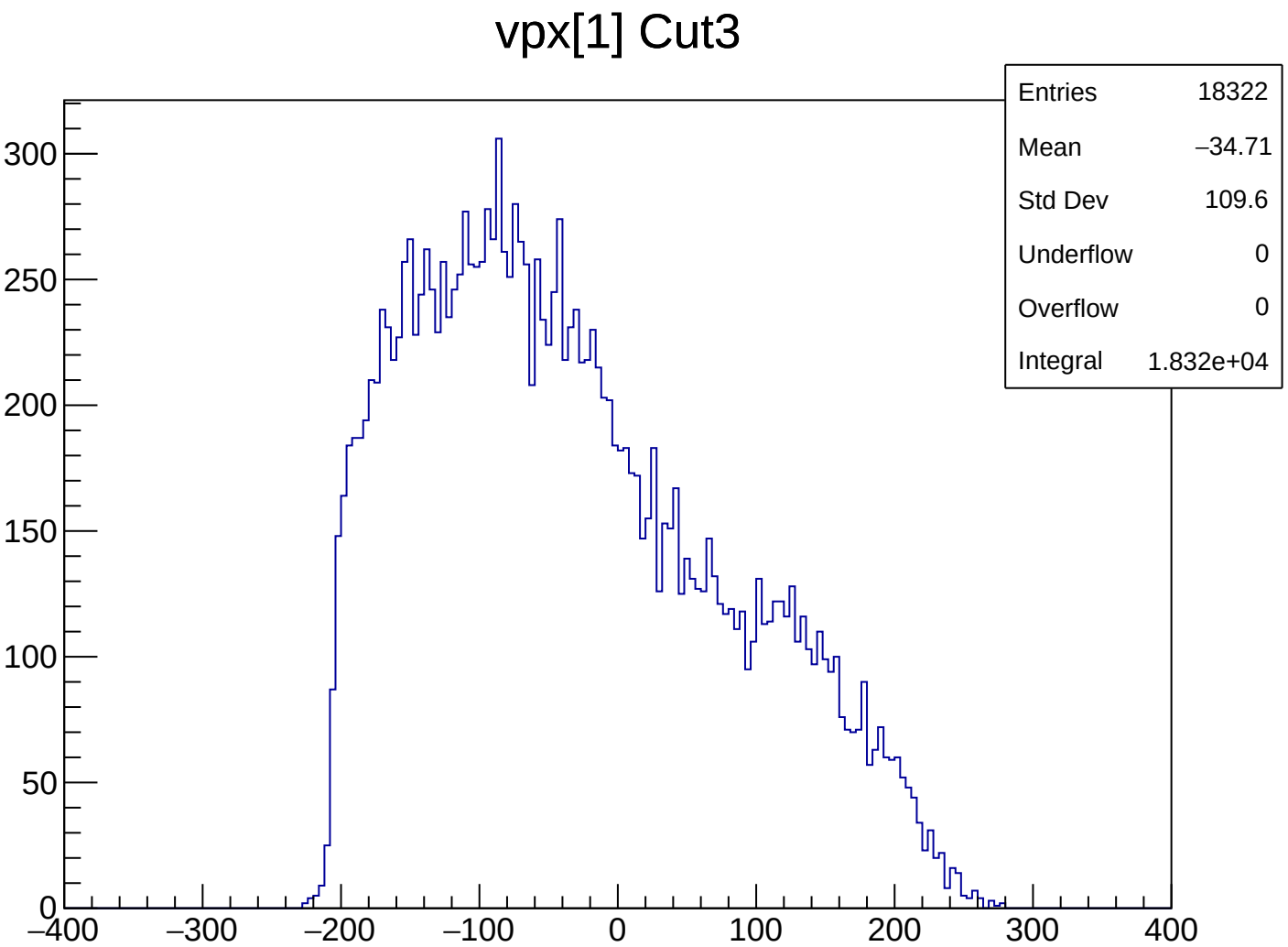

tofsegKurama[0] Cut2
Entries 105124
Mean 16.97
Std Dev 3.553
Underflow 0
Overflow 0
Integral 1.051e+05
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
0
2
4
6
8
10
12
14
16
18
20
22
24

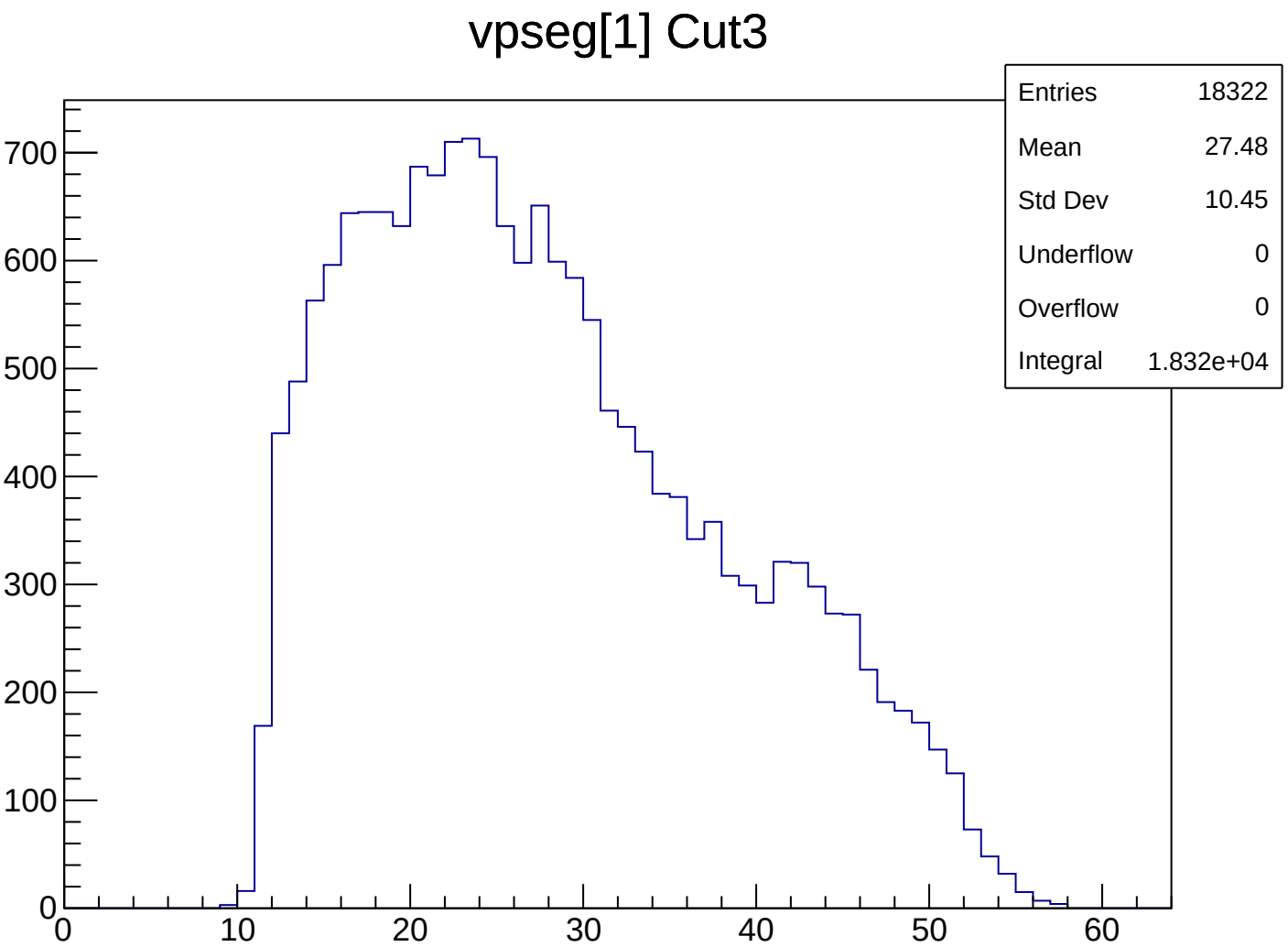

pKurama Cut3
Entries 18322
Mean 1.007
Std Dev 0.3539
Underflow 0
Overflow 13
Integral 1.831e+04
0
100
200
300
400
500
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

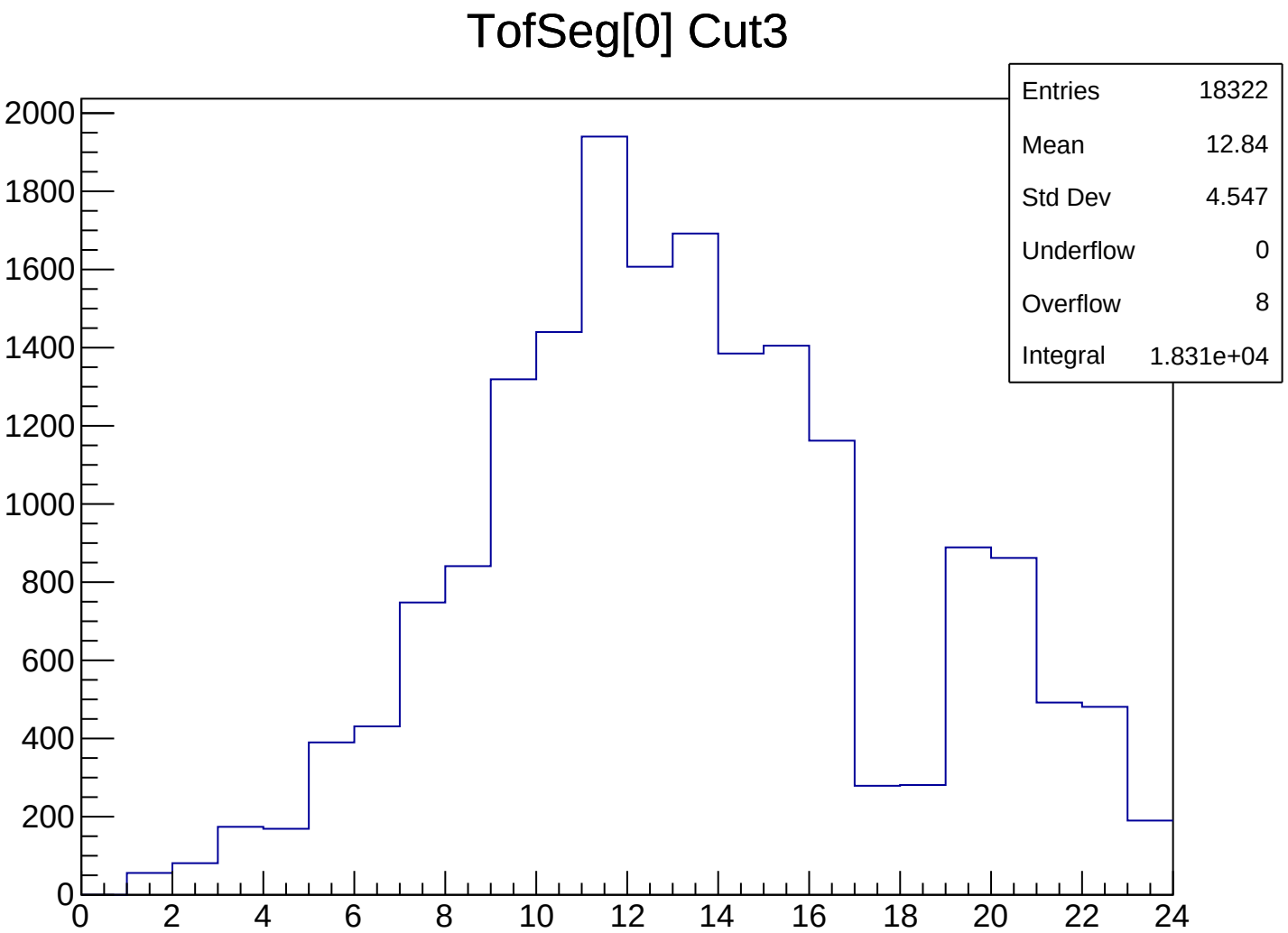

m2 Cut3
Entries 18322
Mean 0.5098
Std Dev 0.4182
Underflow 203
Overflow 495
Integral 1.762e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

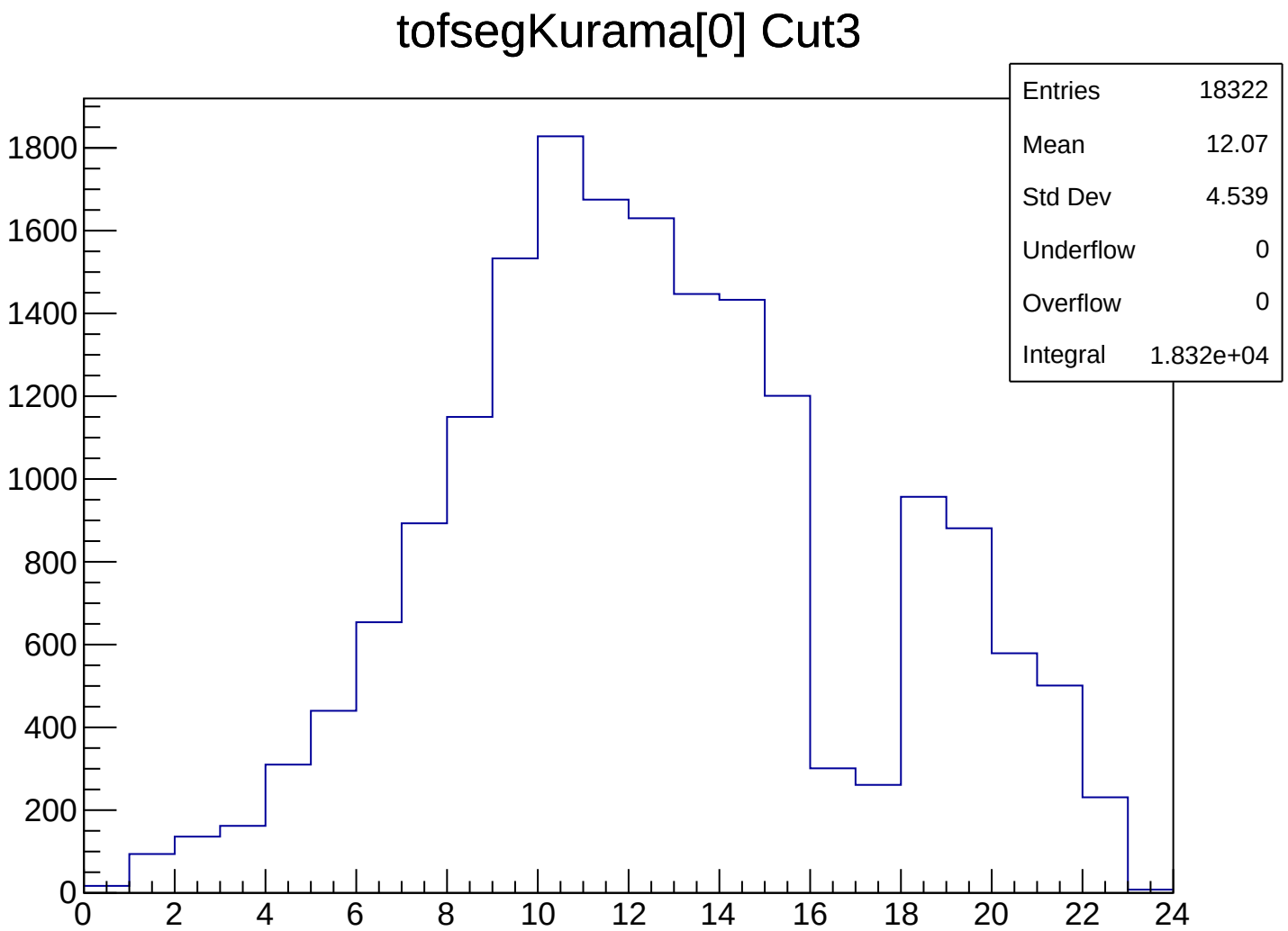

chisqrKurama Cut3
Entries 18322
Mean 9.868
Std Dev 10.39
Underflow 0
Overflow 0
Integral 1.832e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

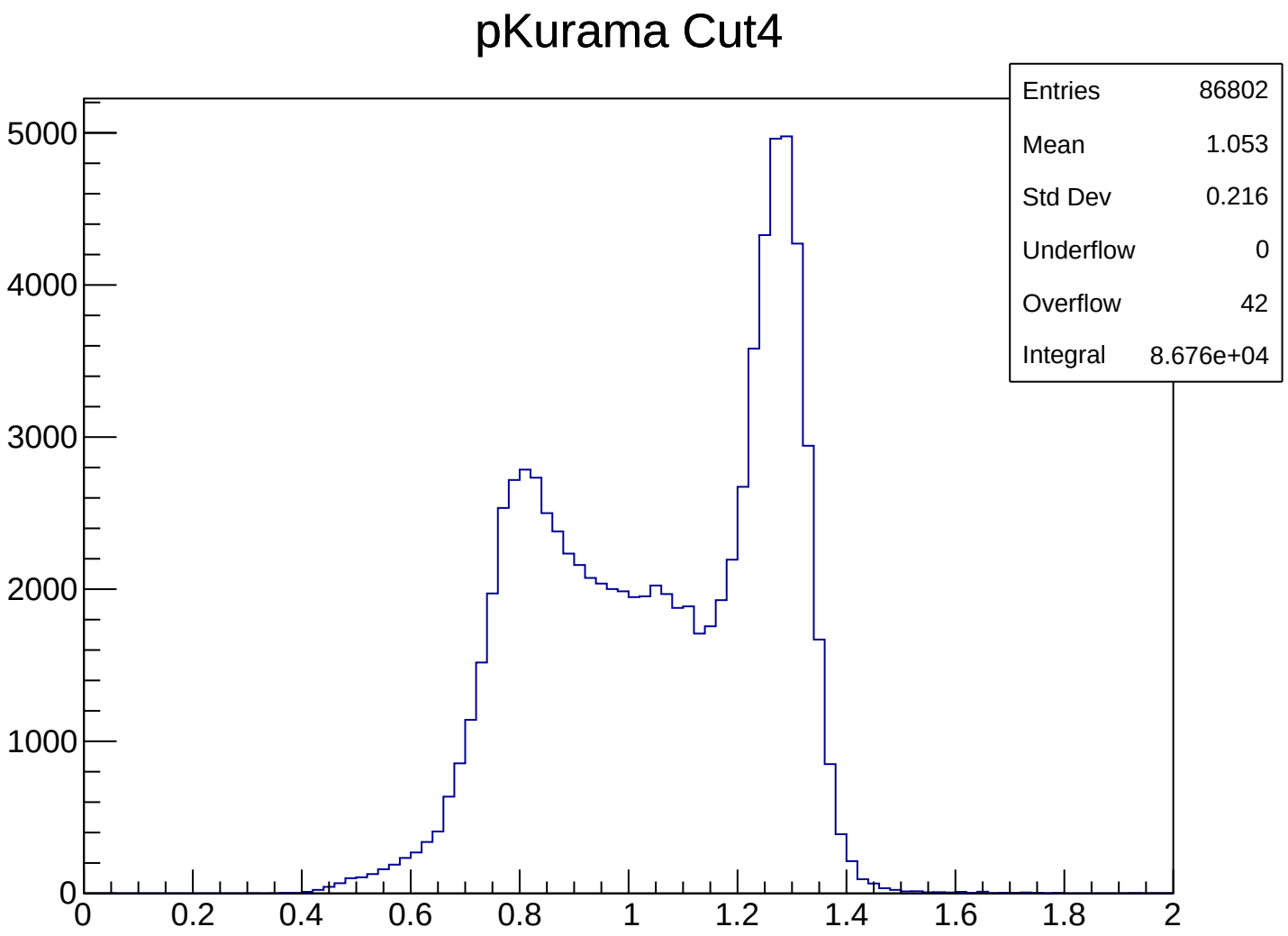

qKurama Cut3
Entries 18322
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.832e+04
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−3
−2
−1
0
1
2
3

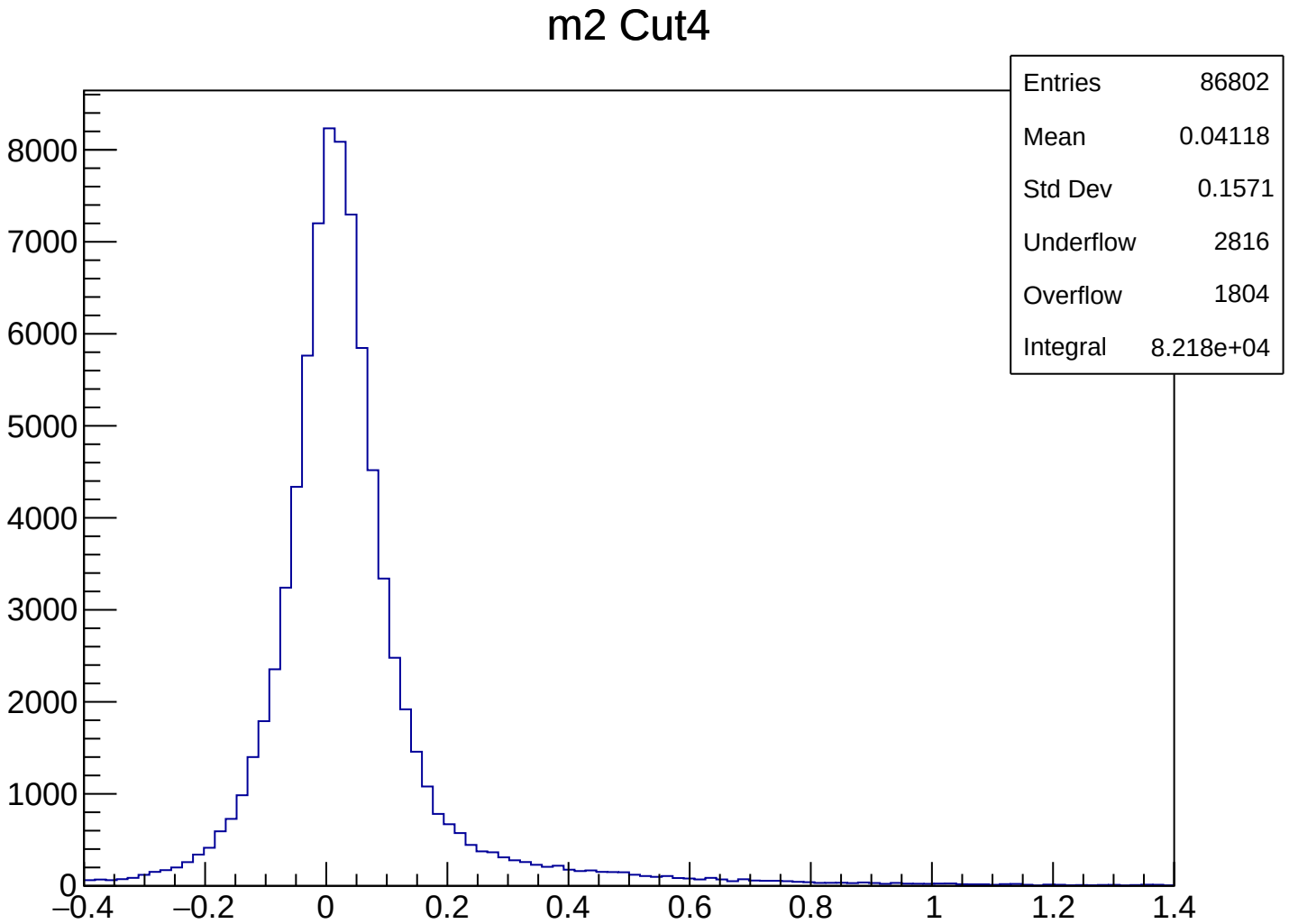

vpx[1] Cut3
Entries 18322
Mean –34.71
Std Dev 109.6
Underflow 0
Overflow 0
Integral 1.832e+04
300
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

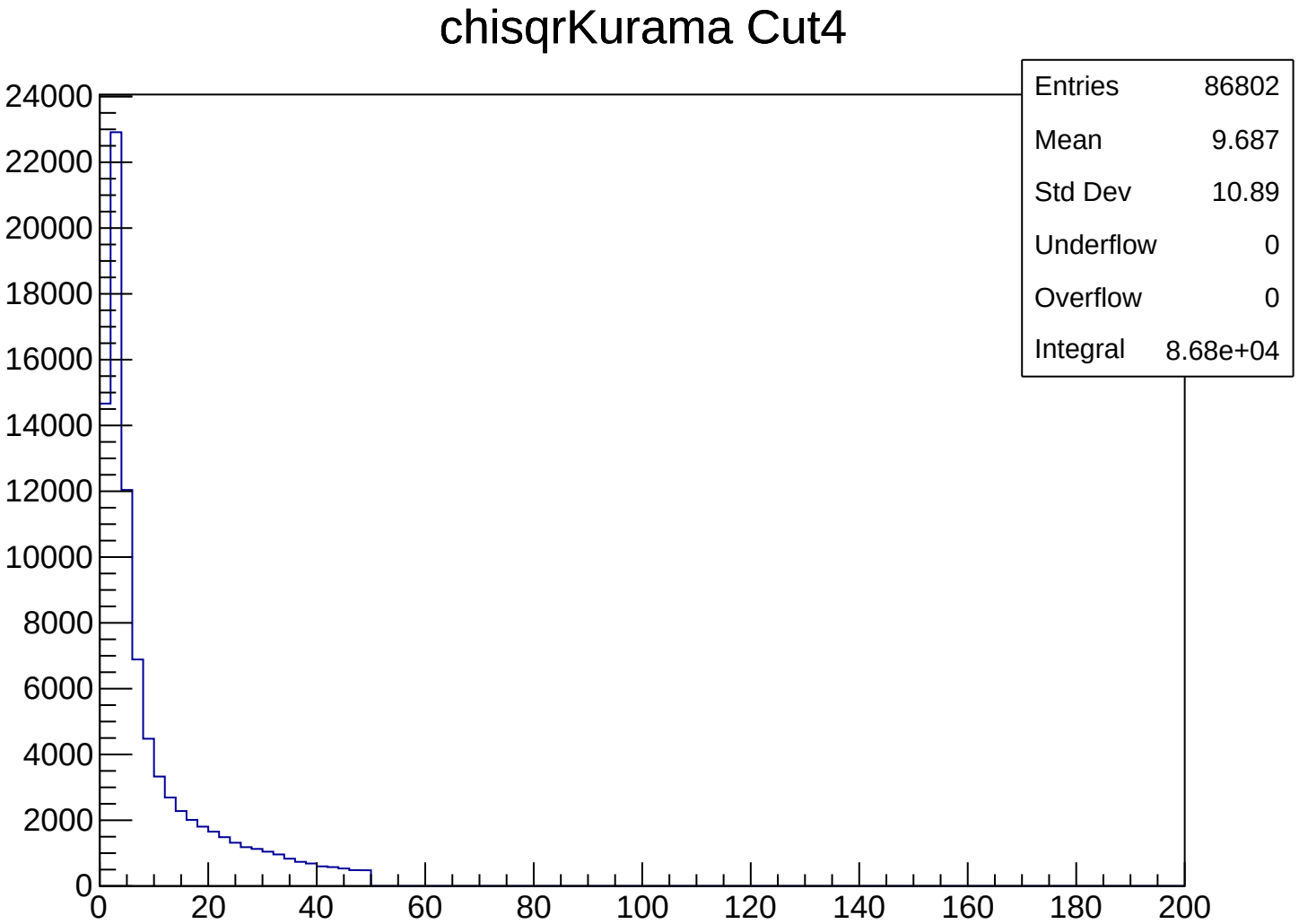

vpseg[1] Cut3
Entries 18322
Mean 27.48
Std Dev 10.45
Underflow 0
Overflow 0
Integral 1.832e+04
0
100
200
300
400
500
600
700
0
10
20
30
40
50
60

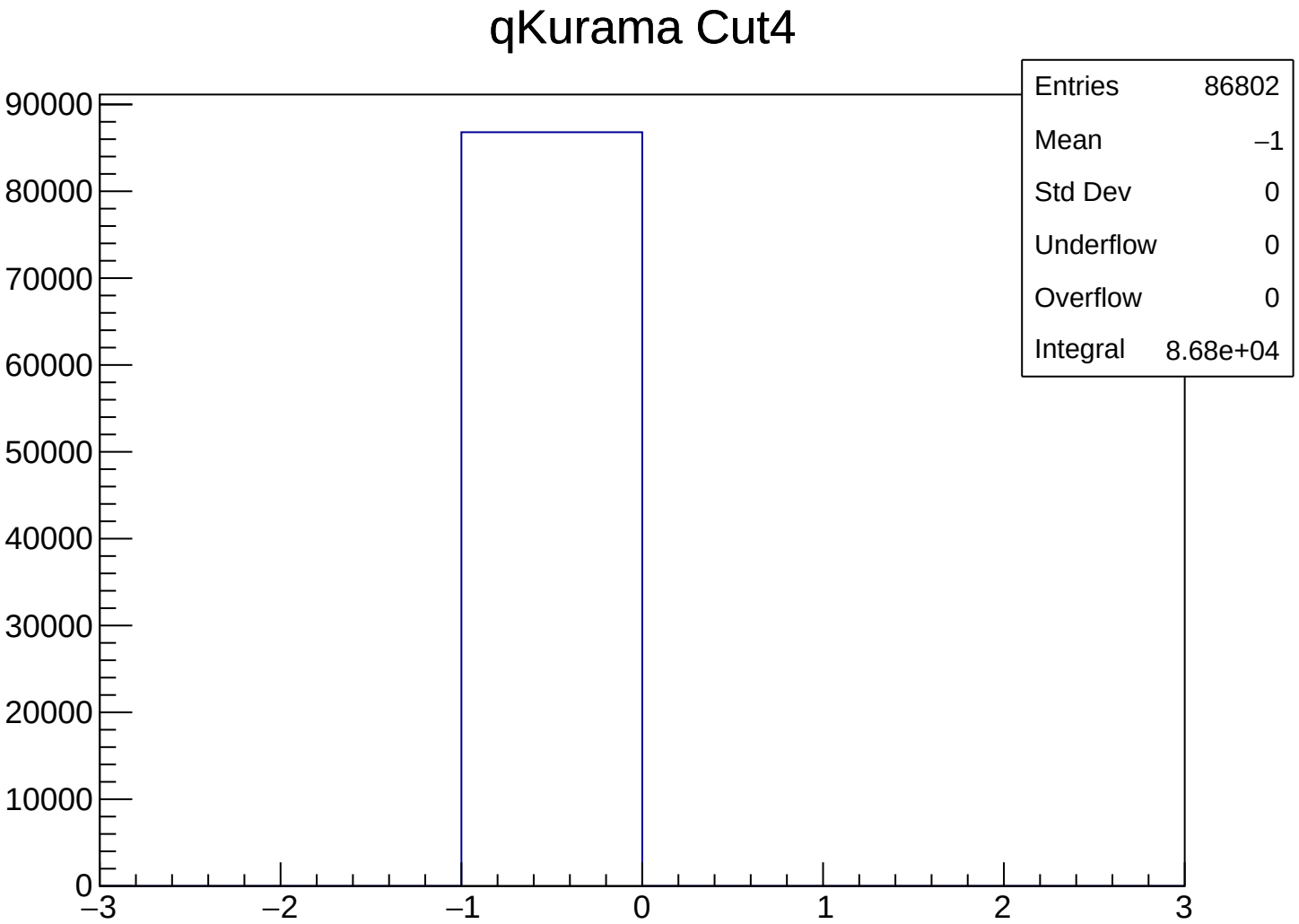

TofSeg[0] Cut3
Entries 18322
Mean 12.84
Std Dev 4.547
Underflow 0
Overflow 8
Integral 1.831e+04
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
18
20
22
24

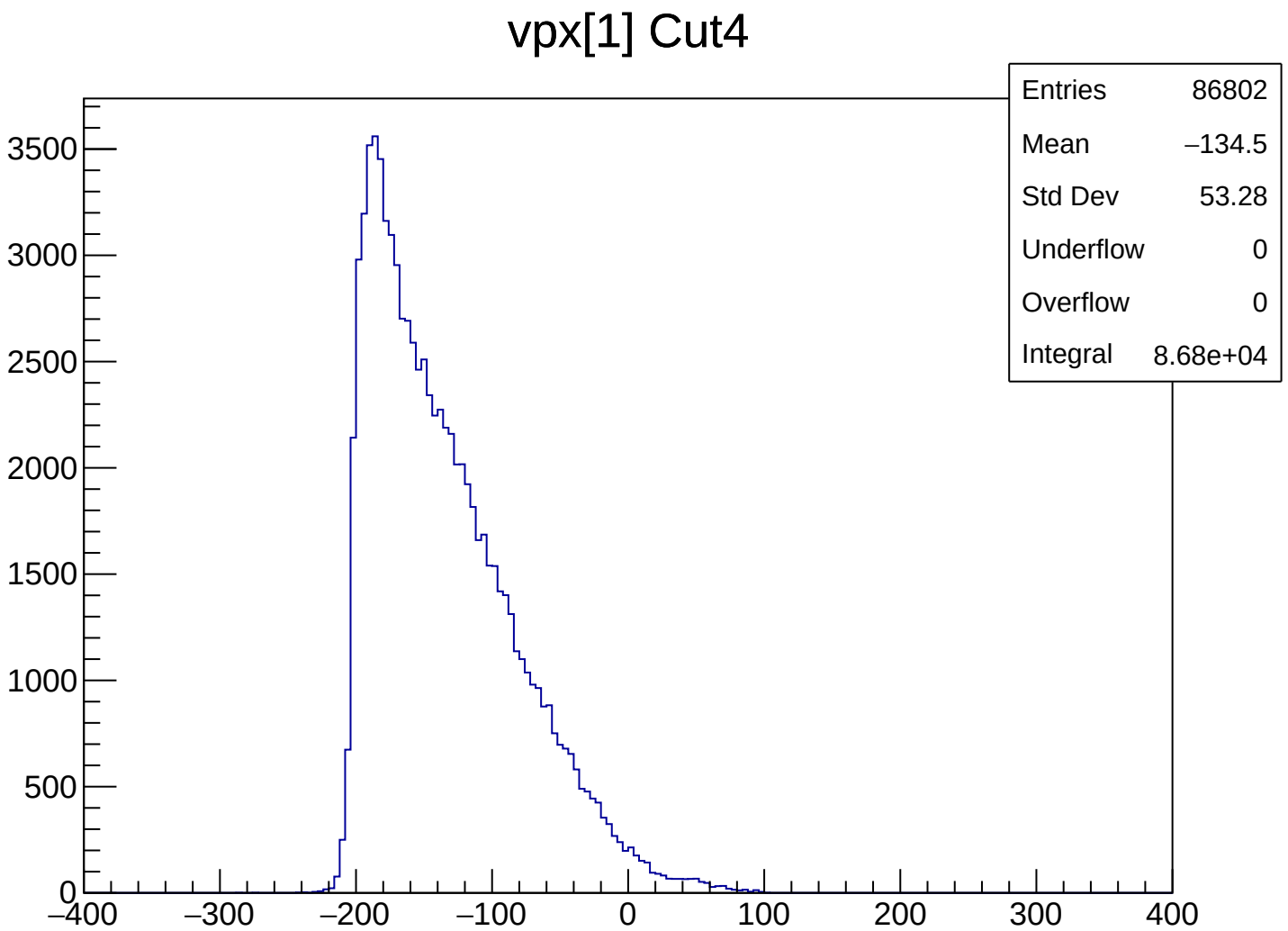

tofsegKurama[0] Cut3
Entries 18322
Mean 12.07
Std Dev 4.539
Underflow 0
Overflow 0
Integral 1.832e+04
0
200
400
600
800
1000
1200
1400
1600
1800
0
2
4
6
8
10
12
14
16
18
20
22
24

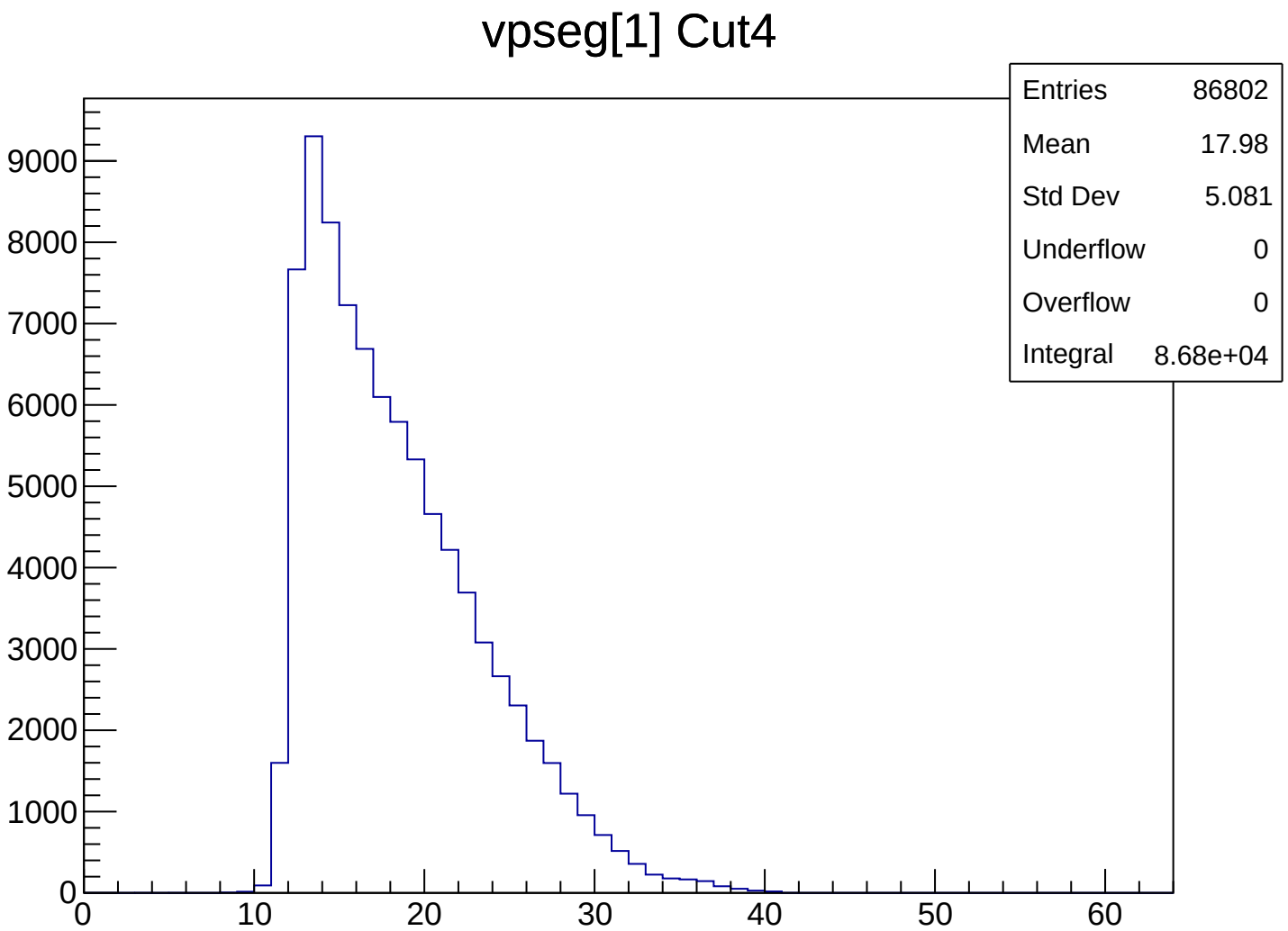

pKurama Cut4
Entries 86802
Mean 1.053
Std Dev 0.216
Underflow 0
Overflow 42
Integral 8.676e+04
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

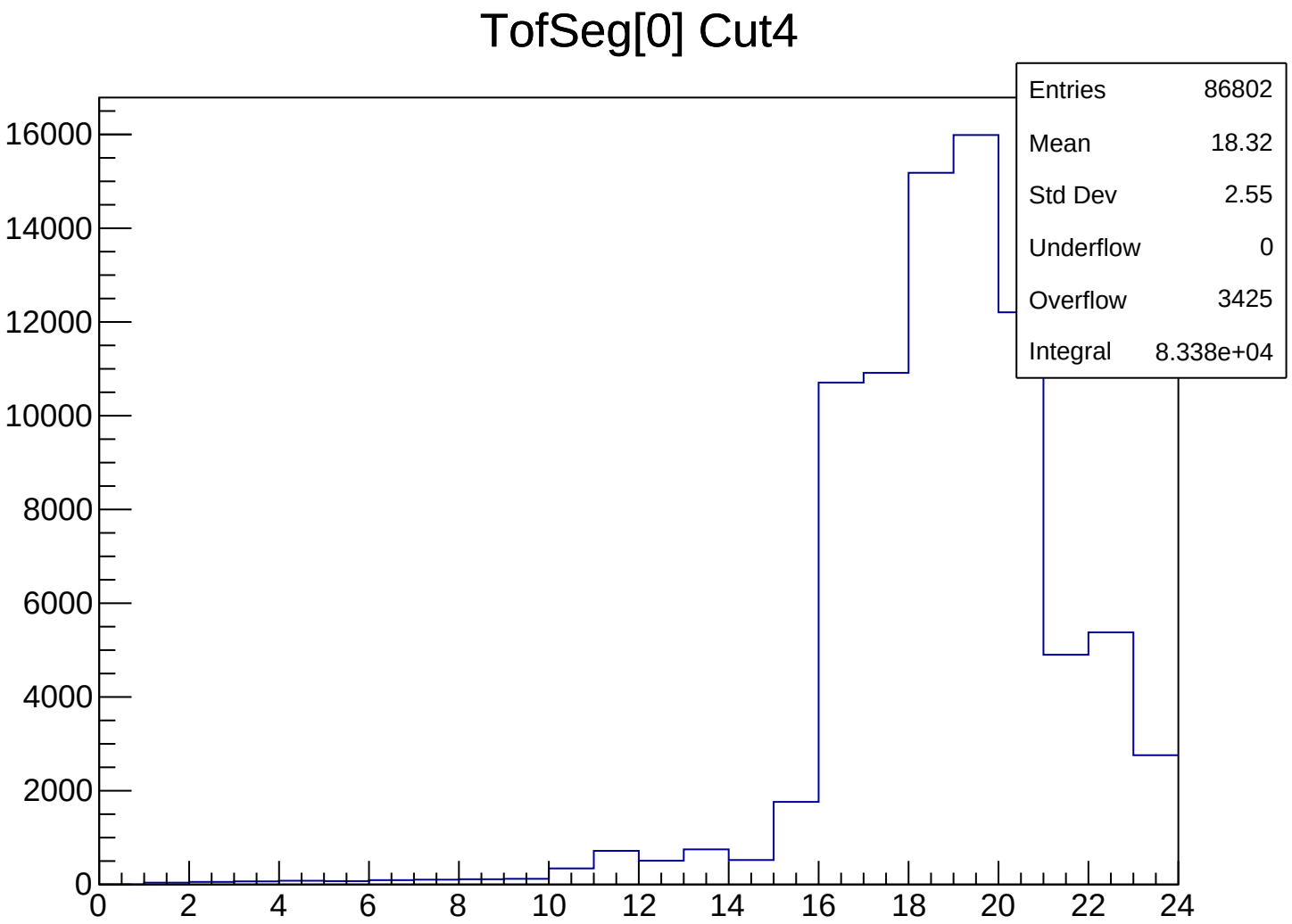

m2 Cut4
Entries 86802
Mean 0.04118
Std Dev 0.1571
Underflow 2816
Overflow 1804
Integral 8.218e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

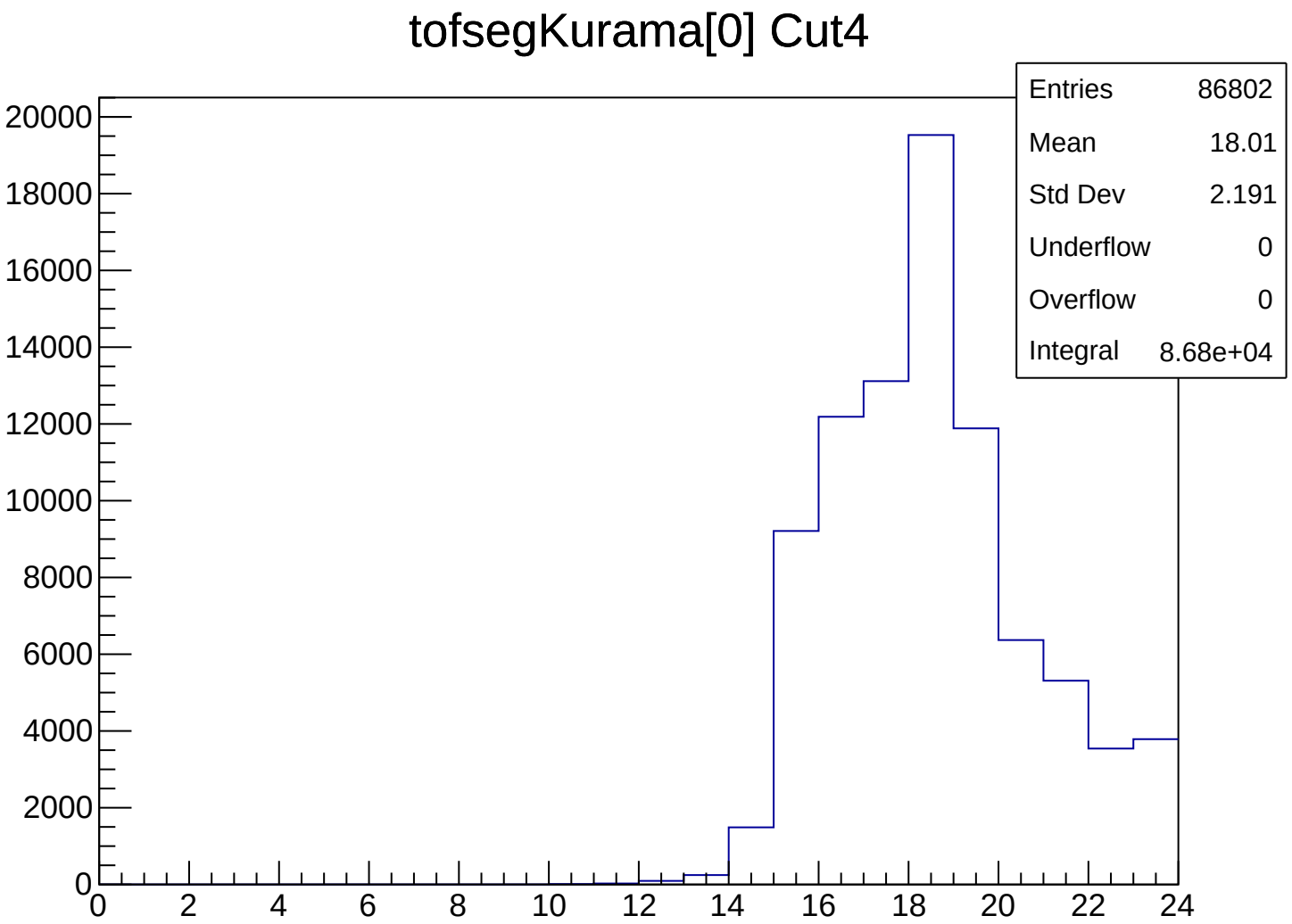

chisqrKurama Cut4
Entries 86802
Mean 9.687
Std Dev 10.89
Underflow 0
Overflow 0
Integral 8.68e+04
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200

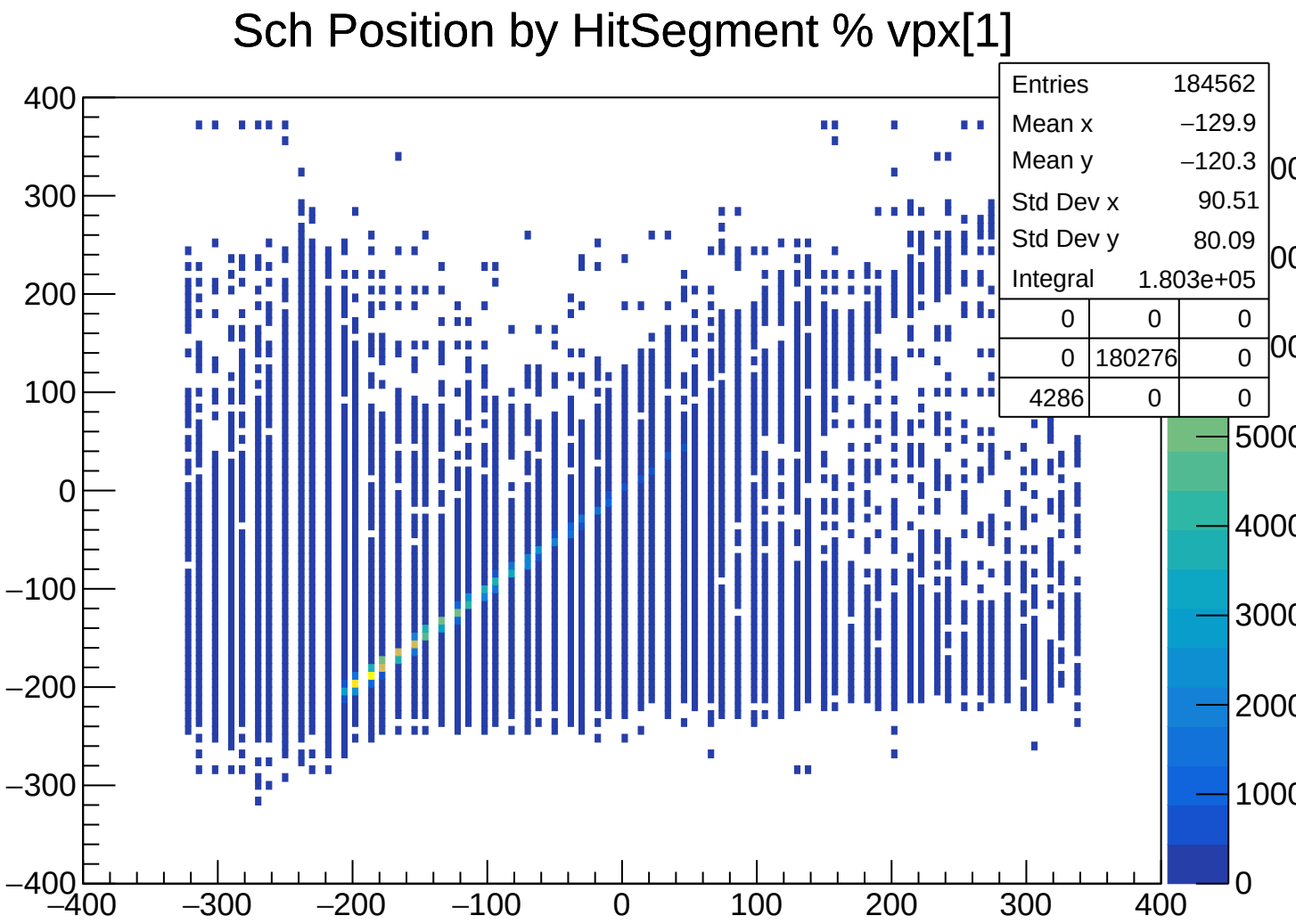

qKurama Cut4
Entries 86802
Mean –1
Std Dev 0
Underflow 0
Overflow 0
Integral 8.68e+04
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
–3
–2
–1
0
1
2
3

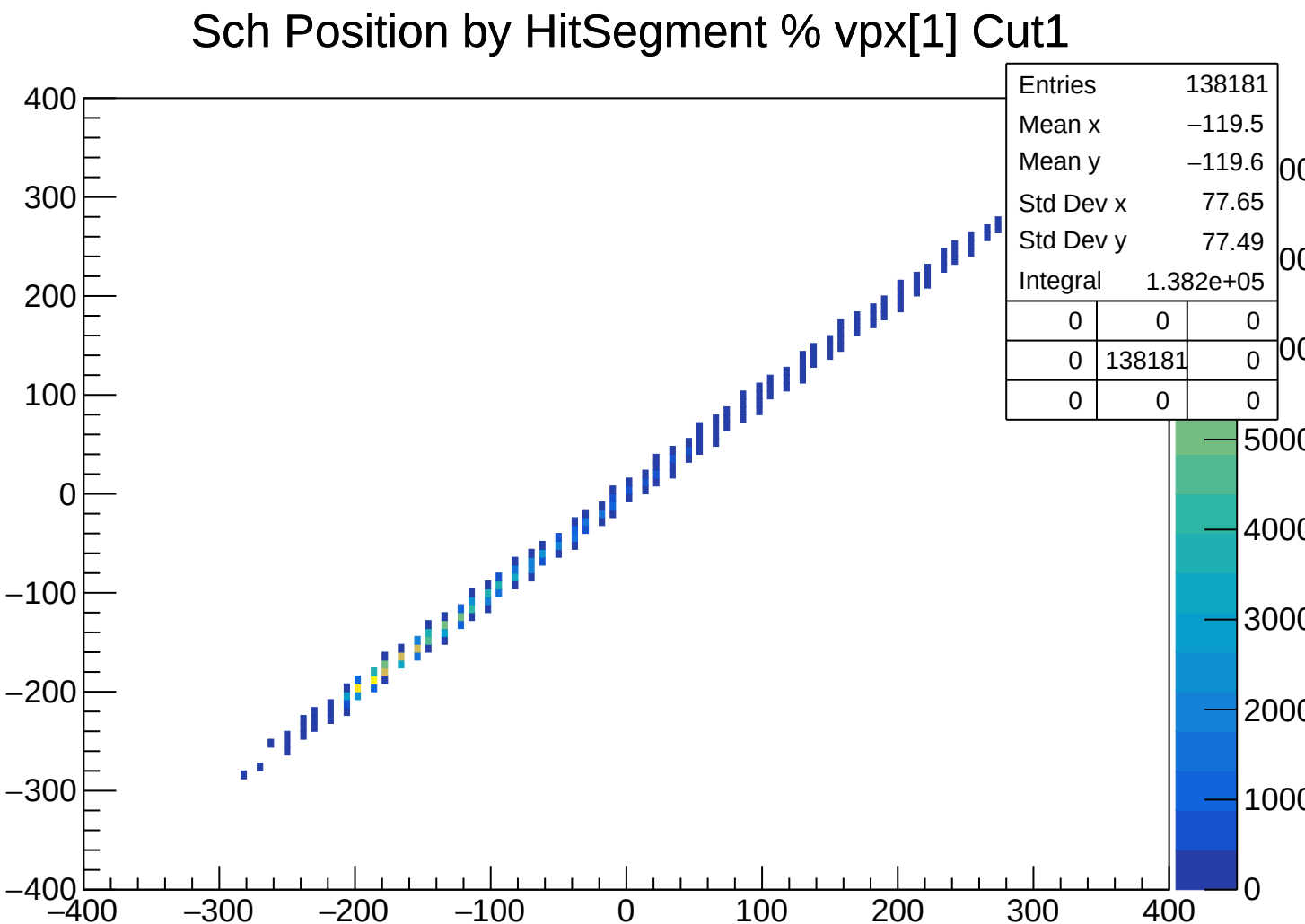

vpx[1] Cut4
Entries 86802
Mean –134.5
Std Dev 53.28
Underflow 0
Overflow 0
Integral 8.68e+04
3500
3000
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

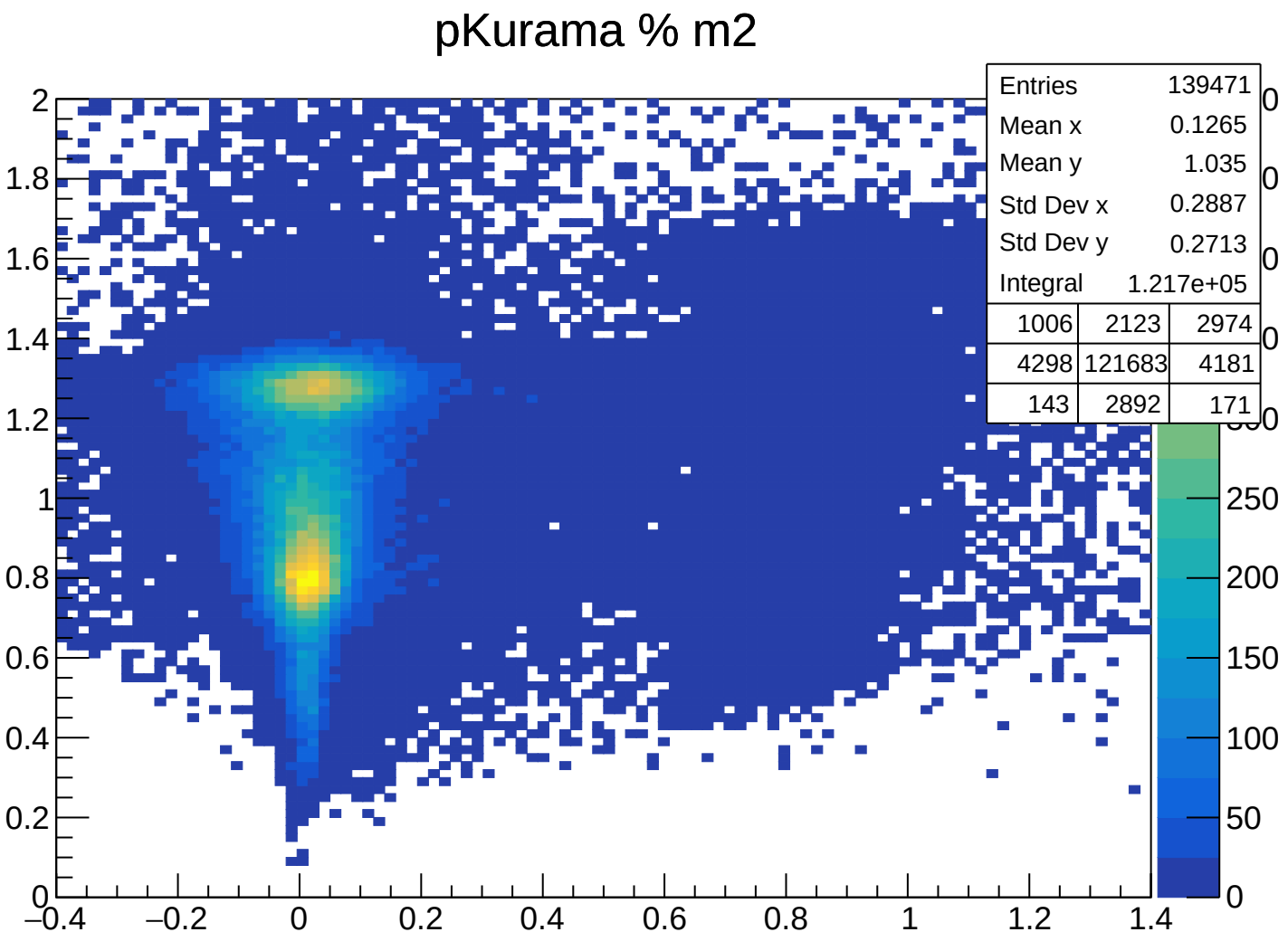

vpseg[1] Cut4
Entries 86802
Mean 17.98
Std Dev 5.081
Underflow 0
Overflow 0
Integral 8.68e+04
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60

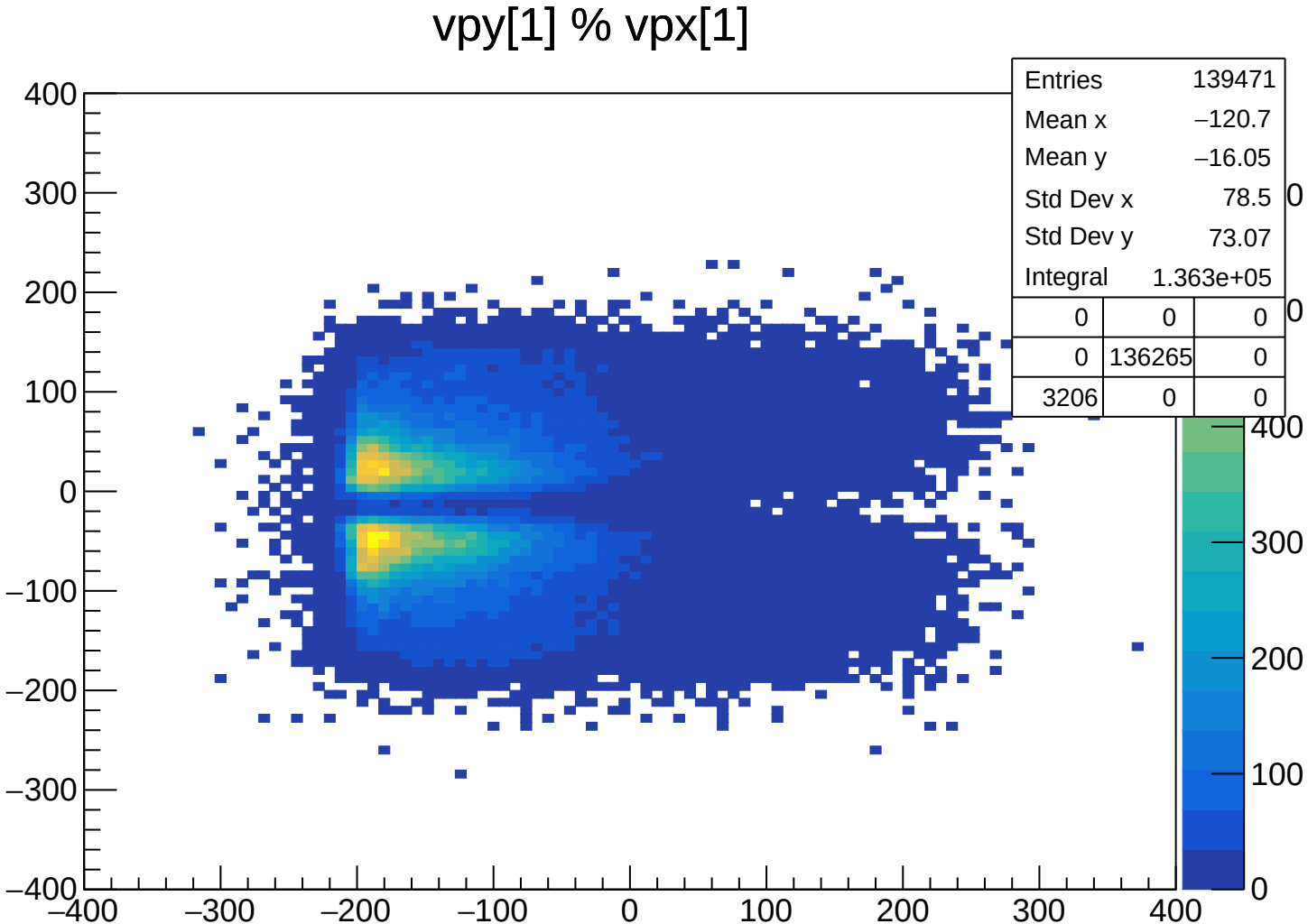

TofSeg[0] Cut4
Entries 86802
Mean 18.32
Std Dev 2.55
Underflow 0
Overflow 3425
Integral 8.338e+04
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

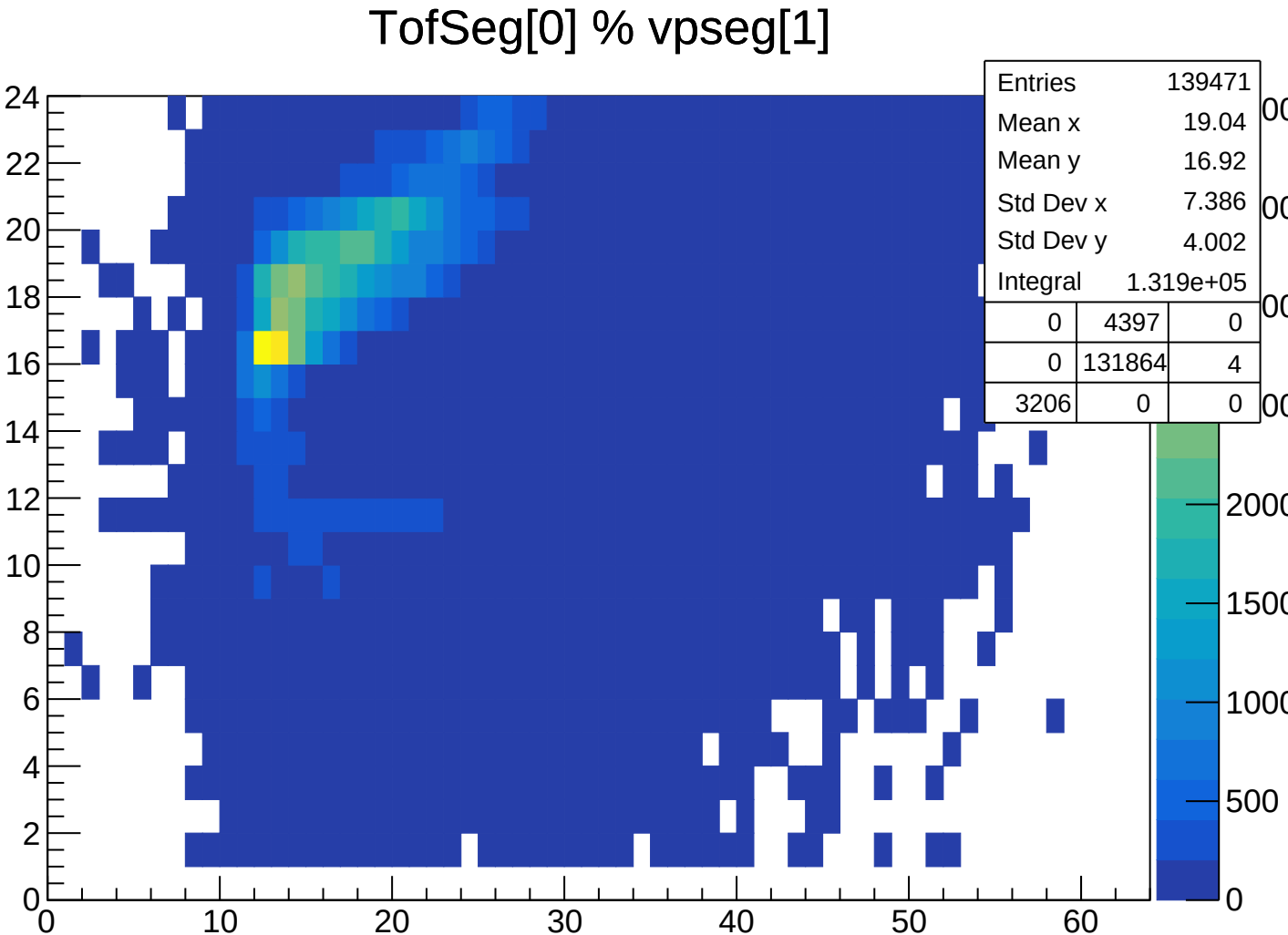

tofsegKurama[0] Cut4
Entries 86802
Mean 18.01
Std Dev 2.191
Underflow 0
Overflow 0
Integral 8.68e+04
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

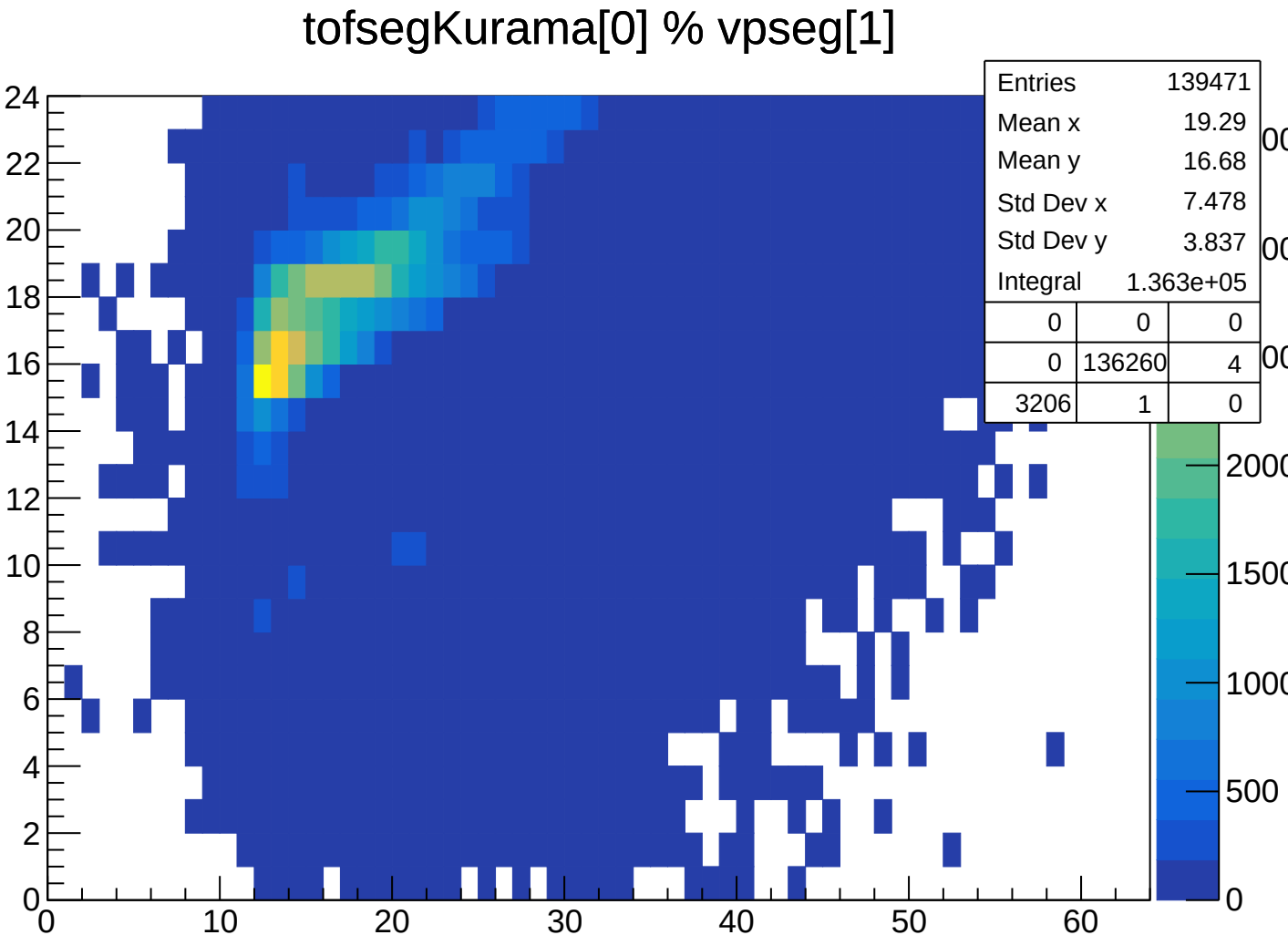

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

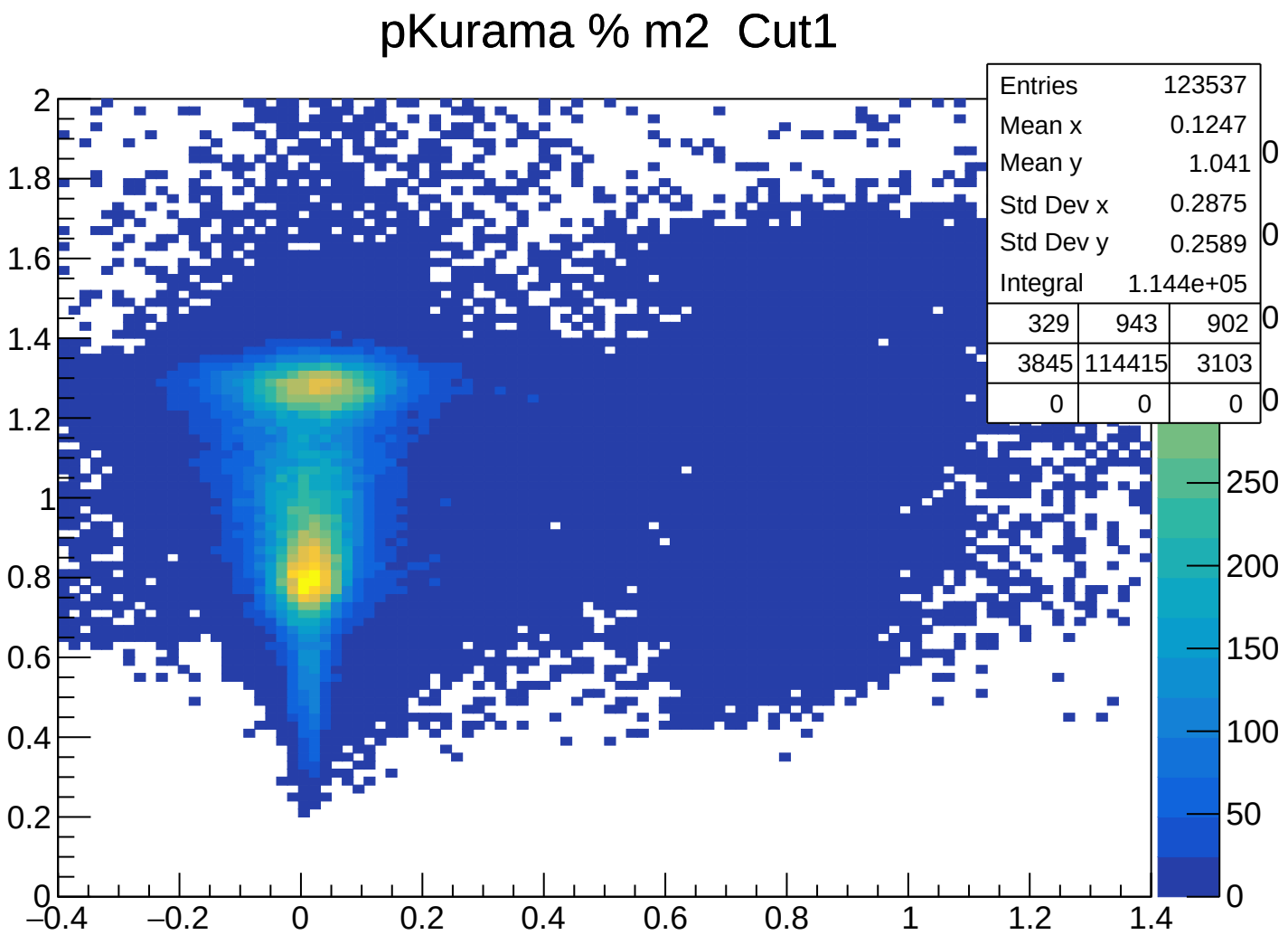

Sch Position by HitSegment % vpx[1] Cut1
Entries 138181
Mean x −119.5
Mean y −119.6
Std Dev x 77.65
Std Dev y 77.49
Integral 1.382e+05
0 0 0
0 138181 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
5000
4000
3000
2000
1000
0

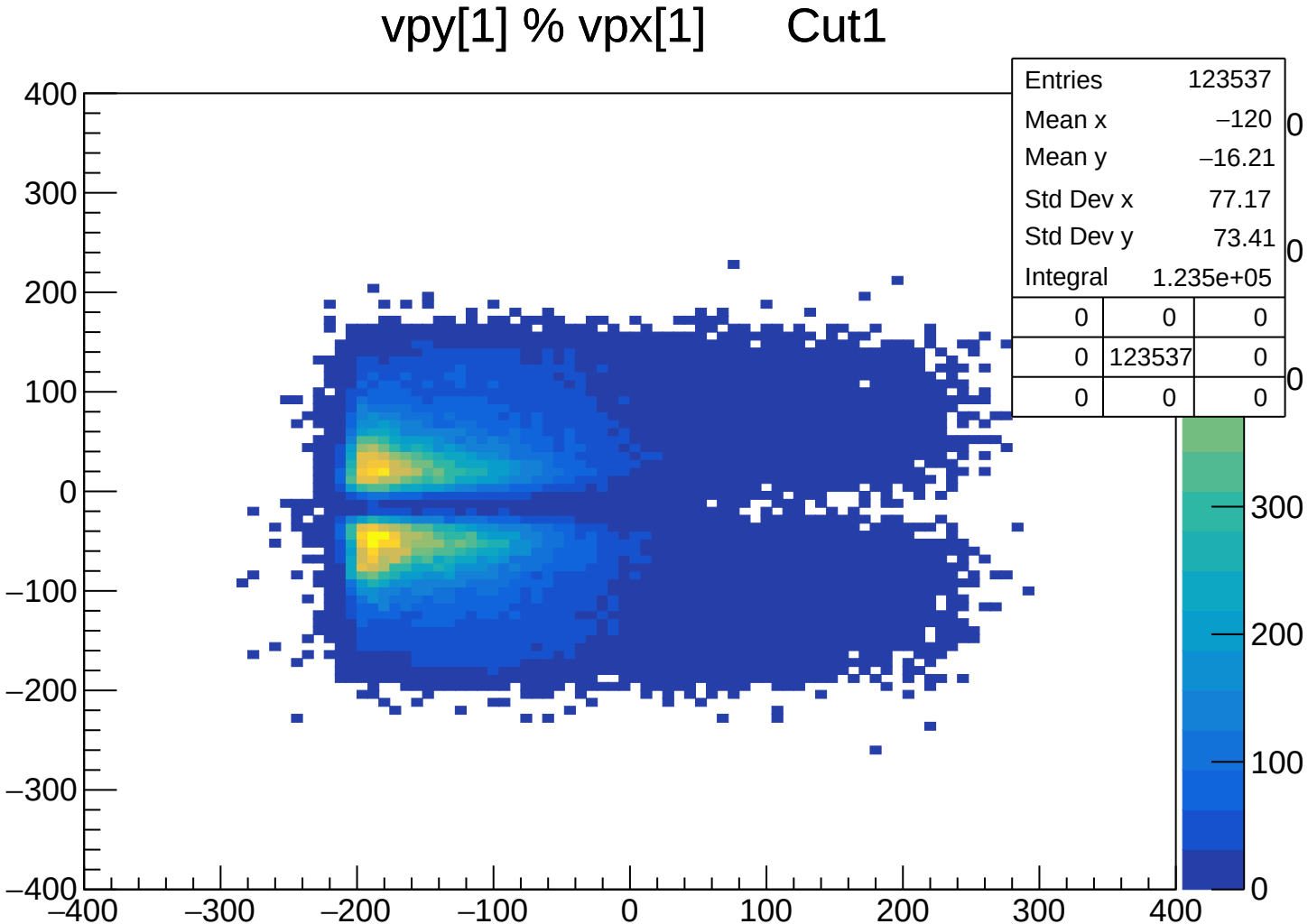

pKurama % m2
Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

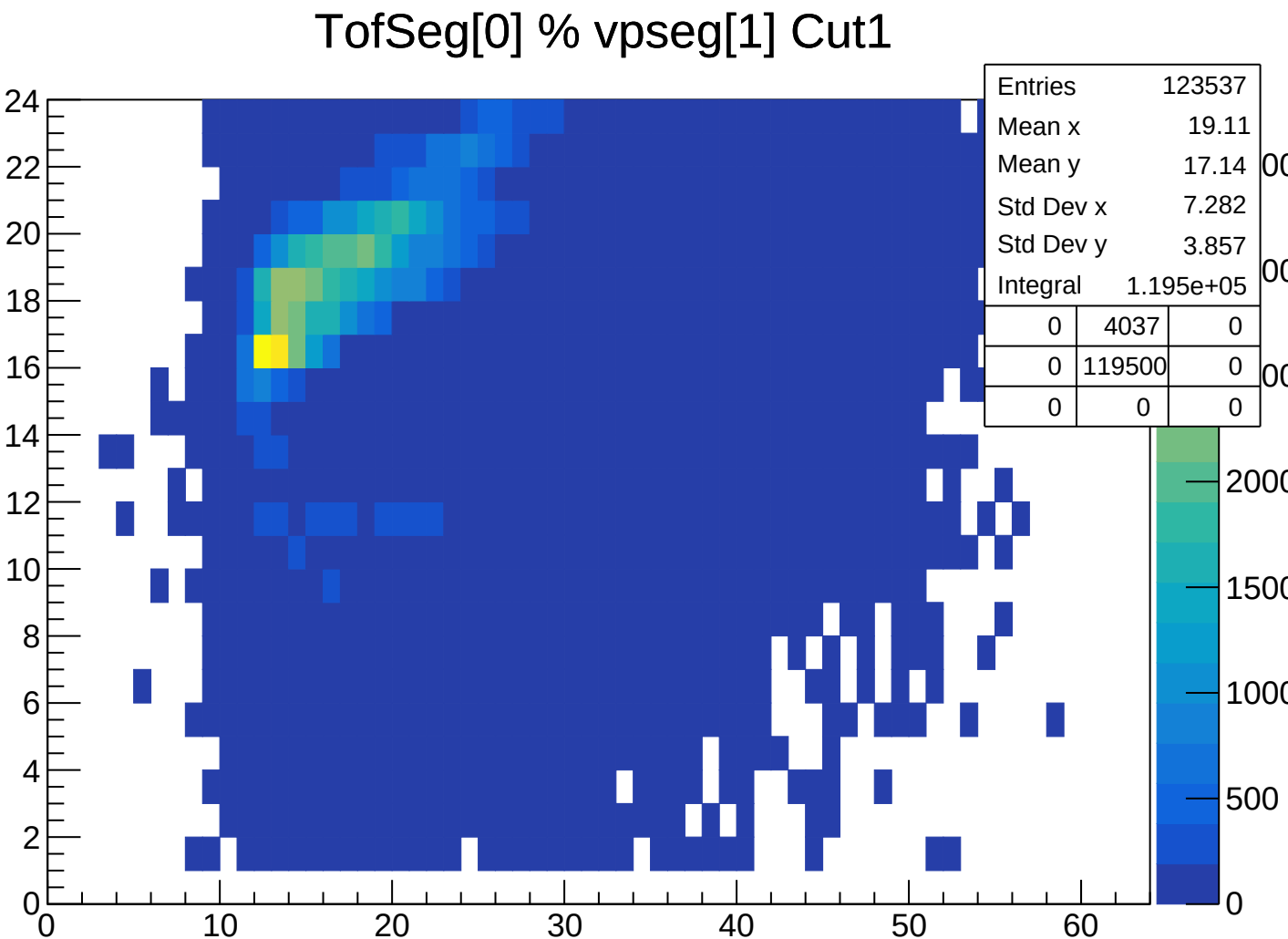

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
400
300
200
100
0

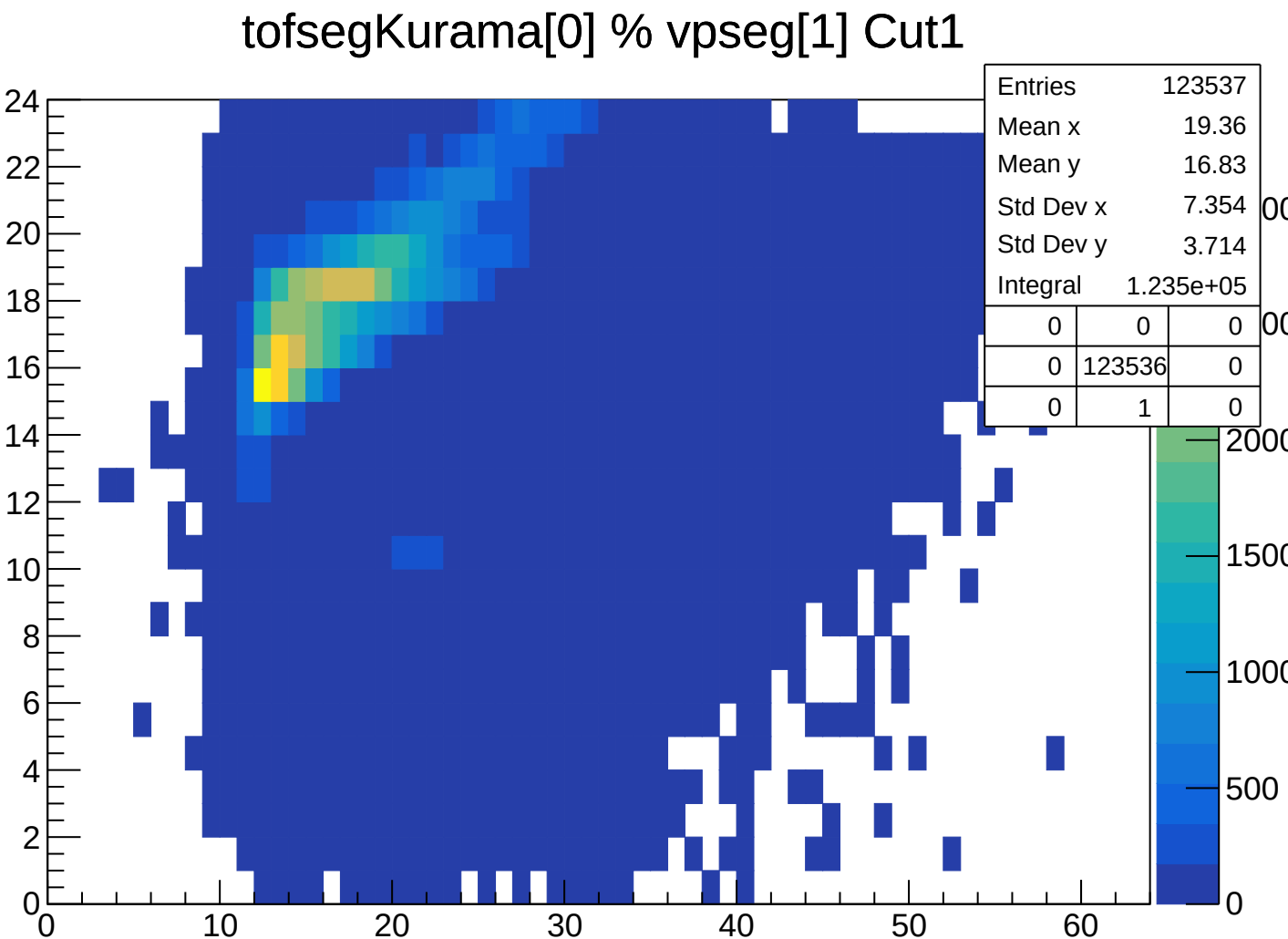

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.04
Mean y 16.92
Std Dev x 7.386
Std Dev y 4.002
Integral 1.319e+05
0 4397 0
0 131864 4
3206 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500
2000

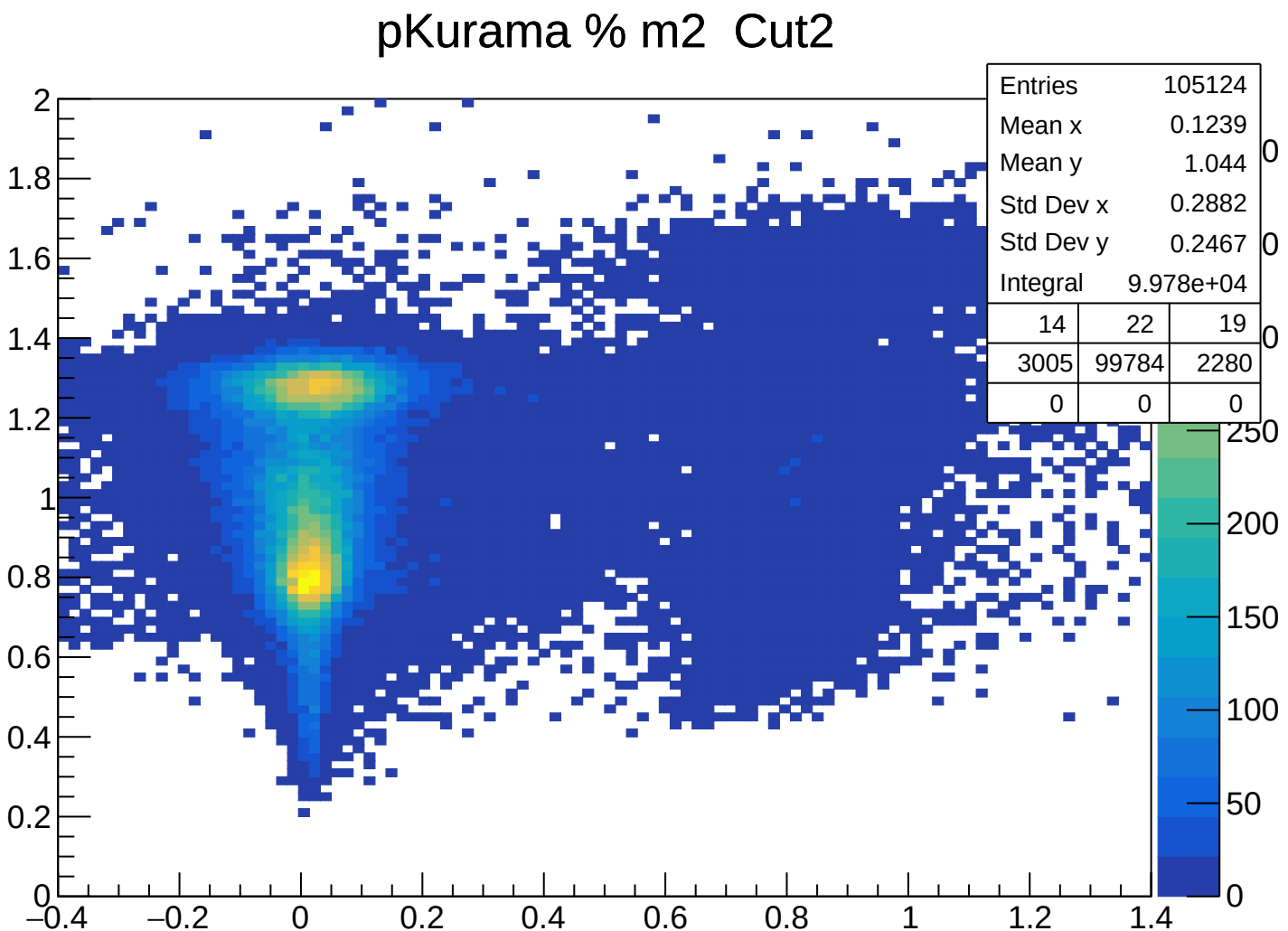

tofsegKurama[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.68
Std Dev x 7.478
Std Dev y 3.837
Integral 1.363e+05
0 0 0
0 136260 4
3206 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500
2000

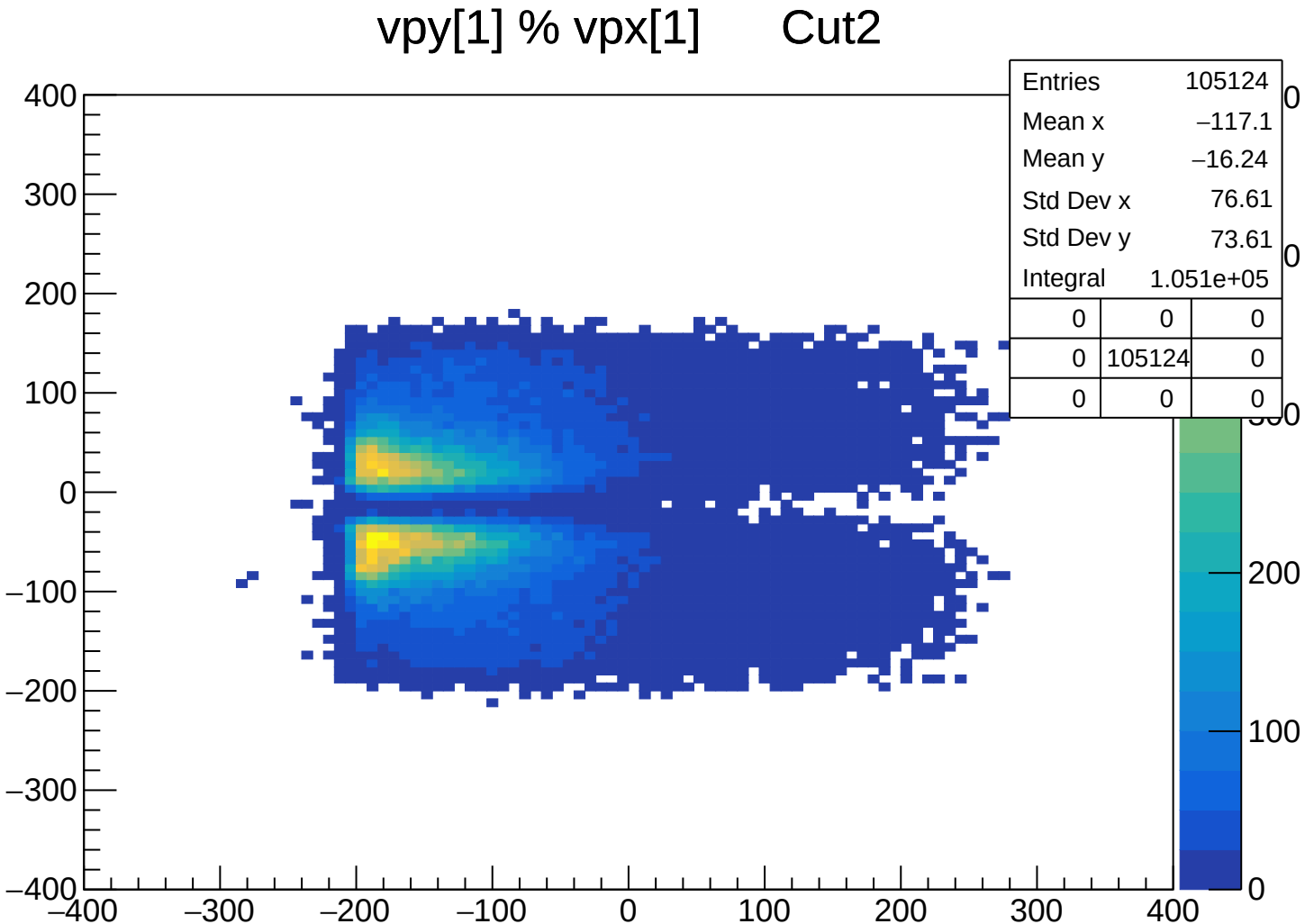

pKurama % m2 Cut1
Entries 123537
Mean x 0.1247
Mean y 1.041
Std Dev x 0.2875
Std Dev y 0.2589
Integral 1.144e+05
329 943 902
3845 114415 3103
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

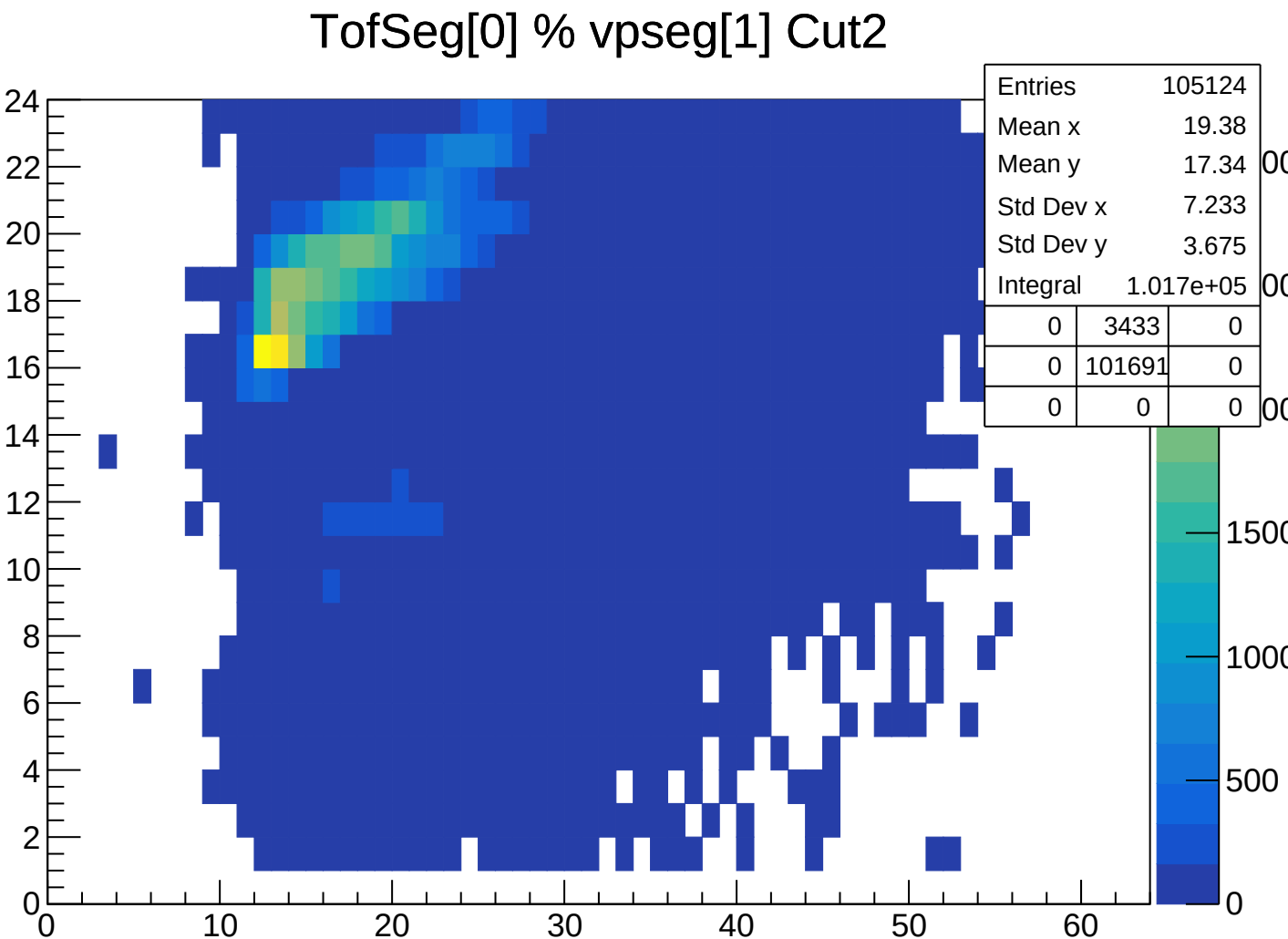

vpy[1] % vpx[1] Cut1
Entries 123537
Mean x –120
Mean y –16.21
Std Dev x 77.17
Std Dev y 73.41
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
300
200
100
0

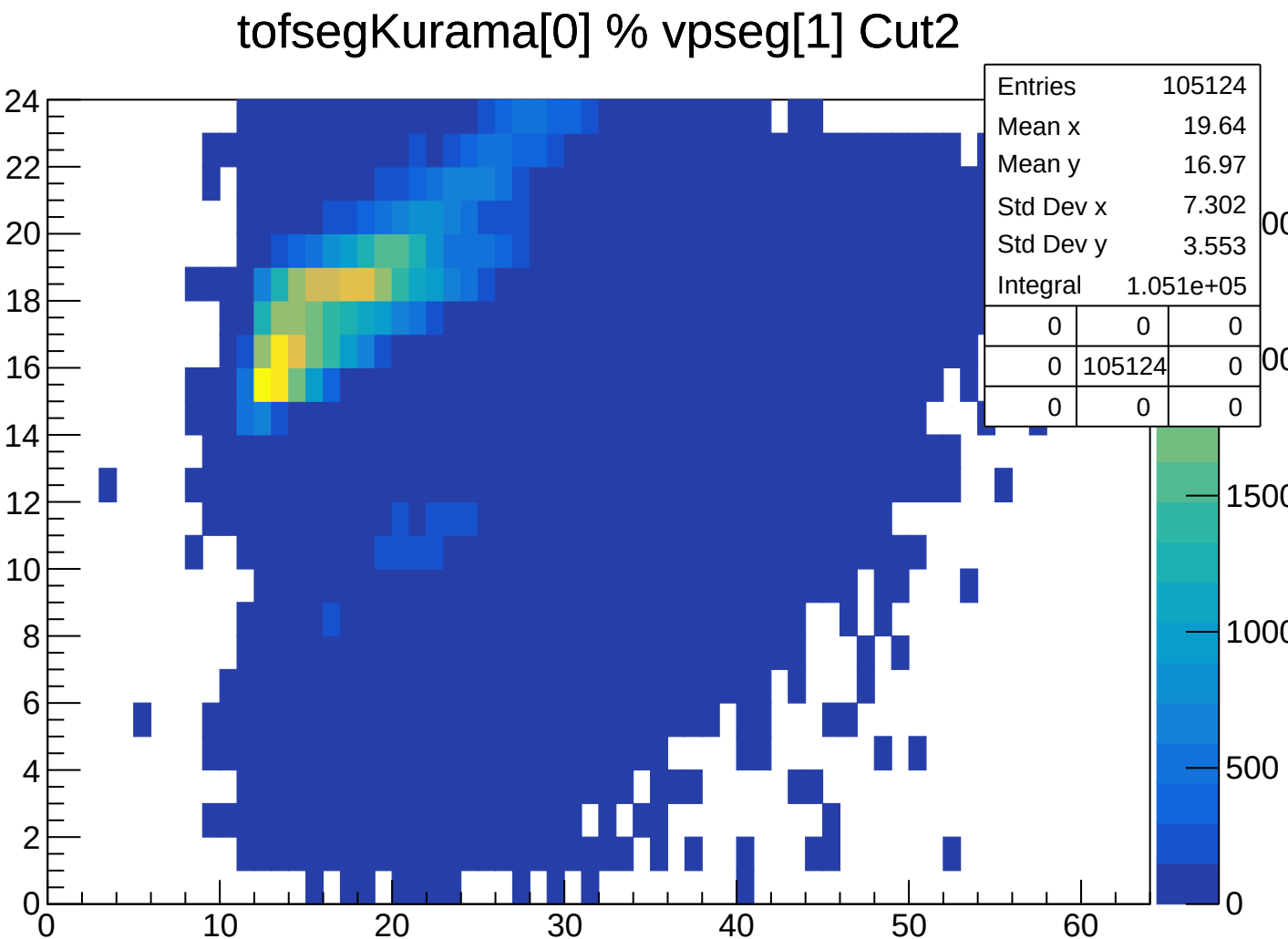

TofSeg[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.11
Mean y 17.14
Std Dev x 7.282
Std Dev y 3.857
Integral 1.195e+05
0 4037 0
0 119500 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500
2000

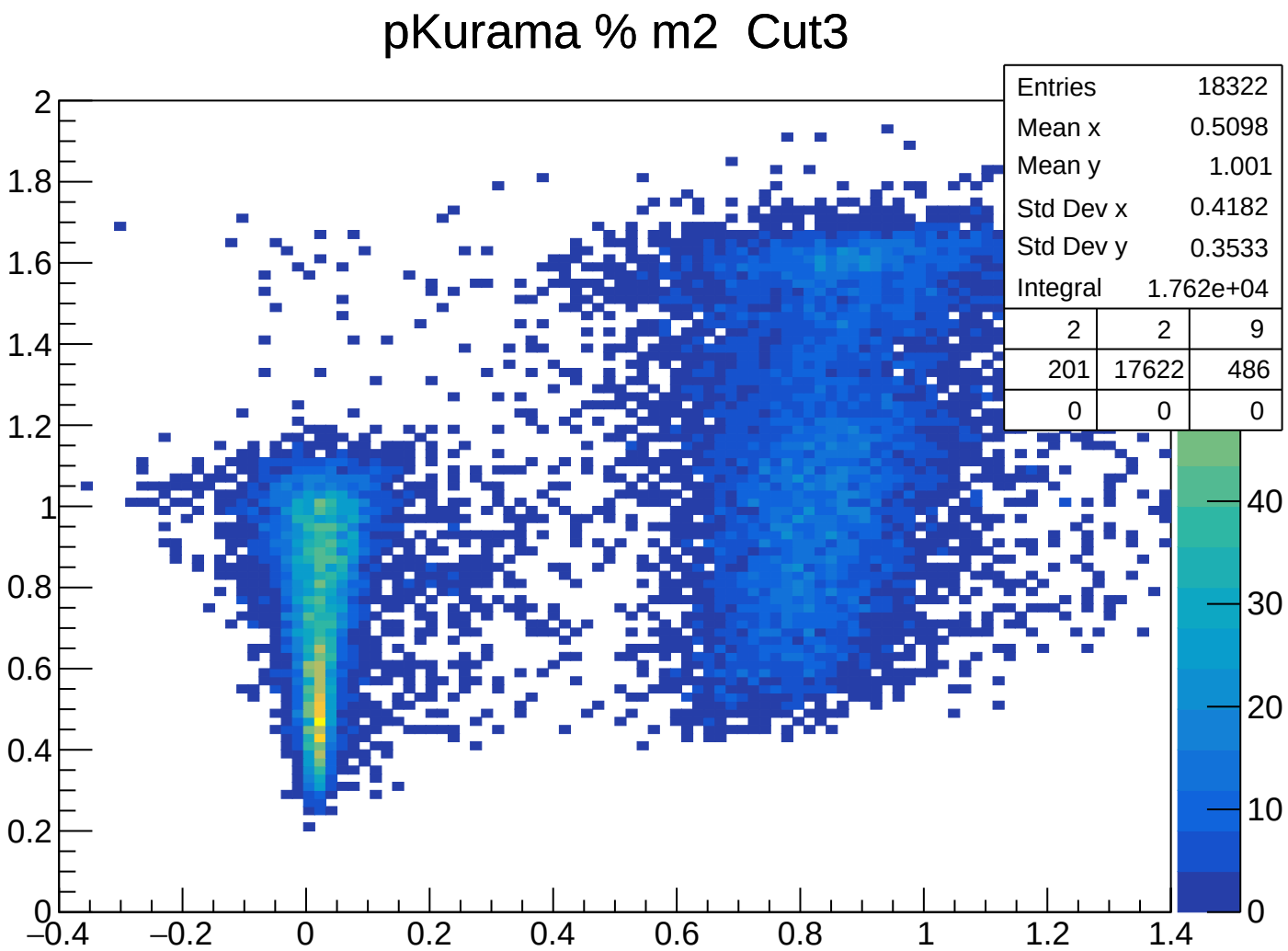

tofsegKurama[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.36
Mean y 16.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500
2000

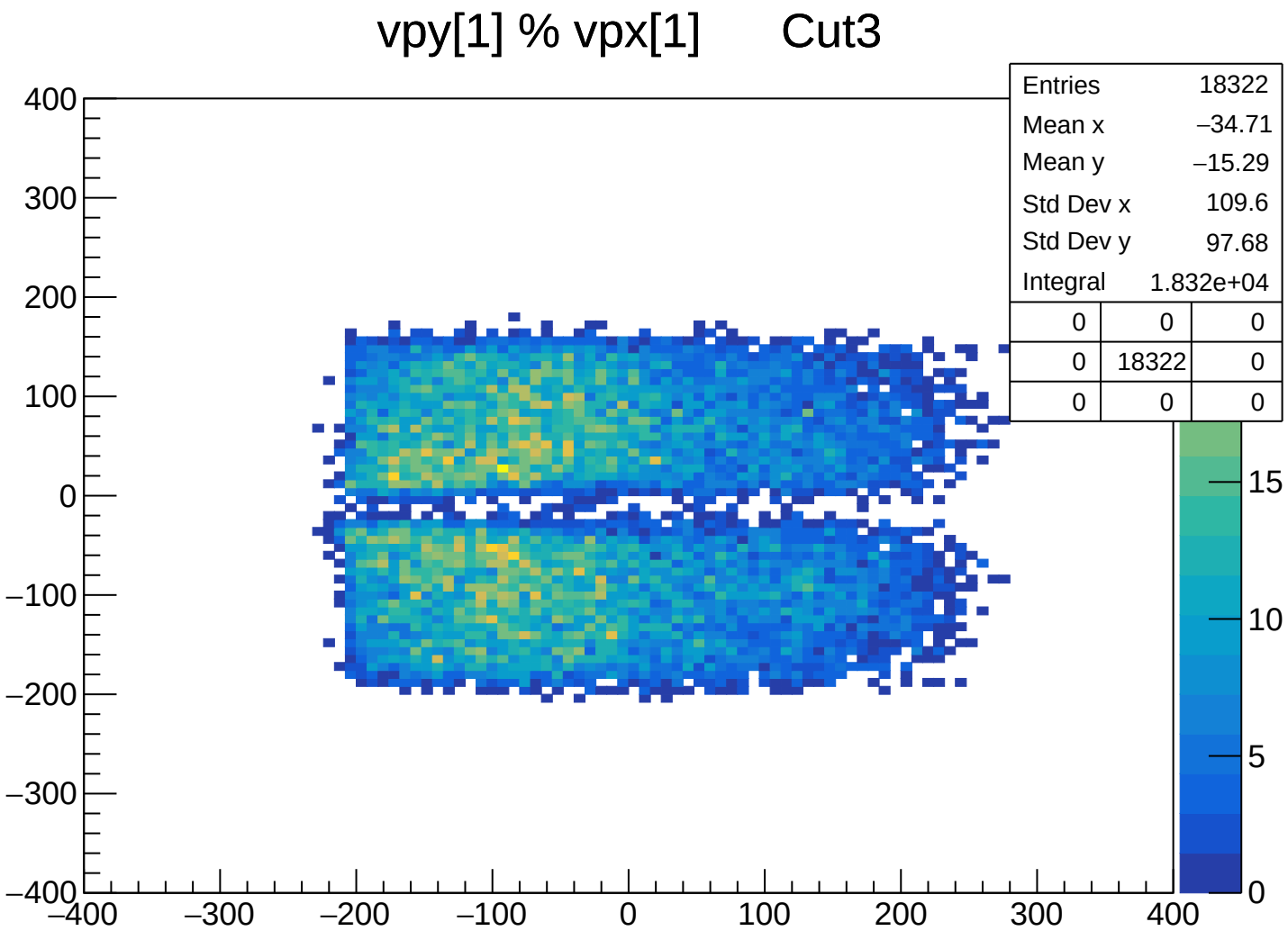

pKurama % m2 Cut2
Entries 105124
Mean x 0.1239
Mean y 1.044
Std Dev x 0.2882
Std Dev y 0.2467
Integral 9.978e+04
14 22 19
3005 99784 2280
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

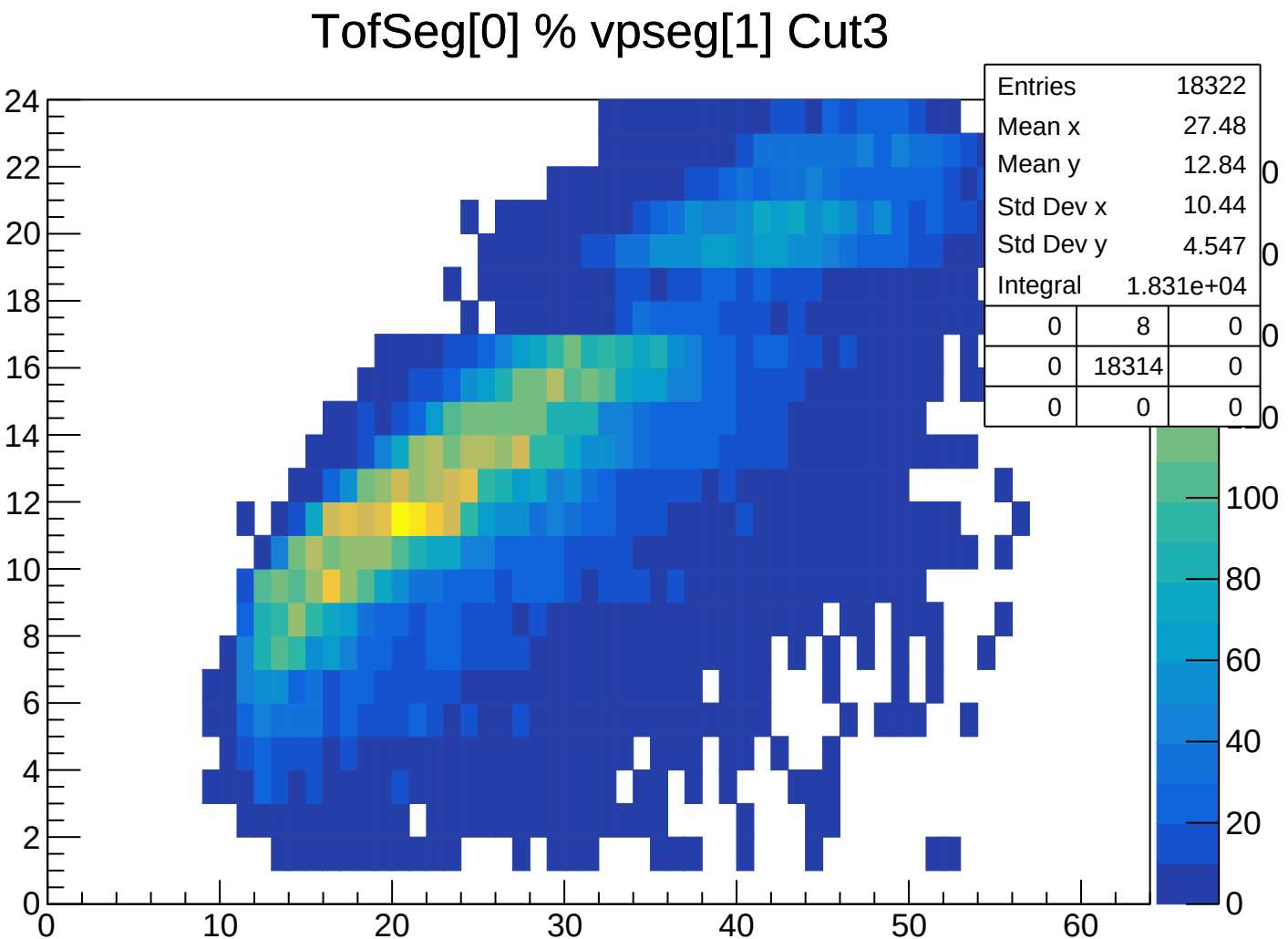

vpy[1] % vpx[1] Cut2
Entries 105124
Mean x –117.1
Mean y –16.24
Std Dev x 76.61
Std Dev y 73.61
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
200
100
0

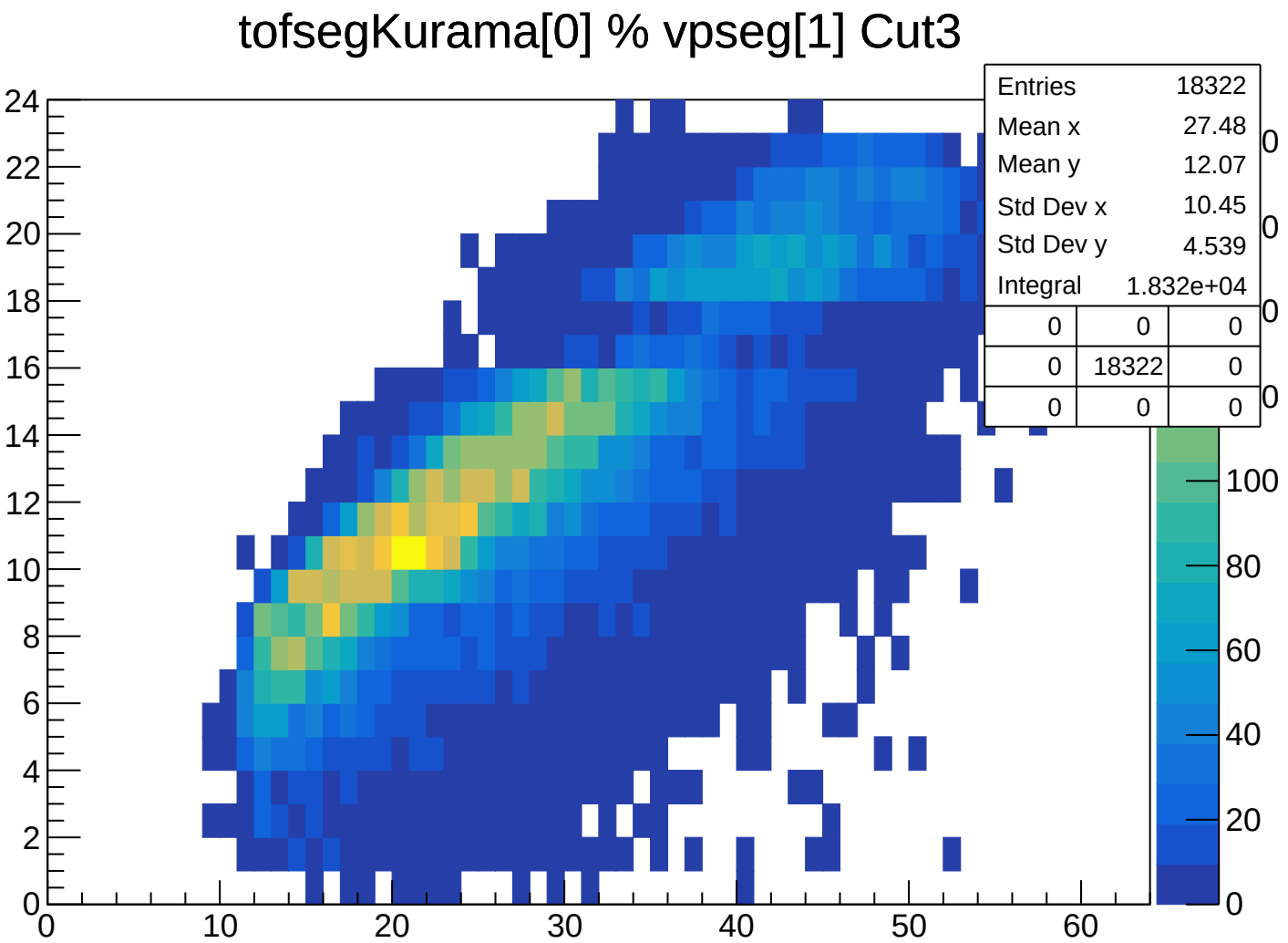

TofSeg[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.38
Mean y 17.34
Std Dev x 7.233
Std Dev y 3.675
Integral 1.017e+05
0 3433 0
0 101691 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500

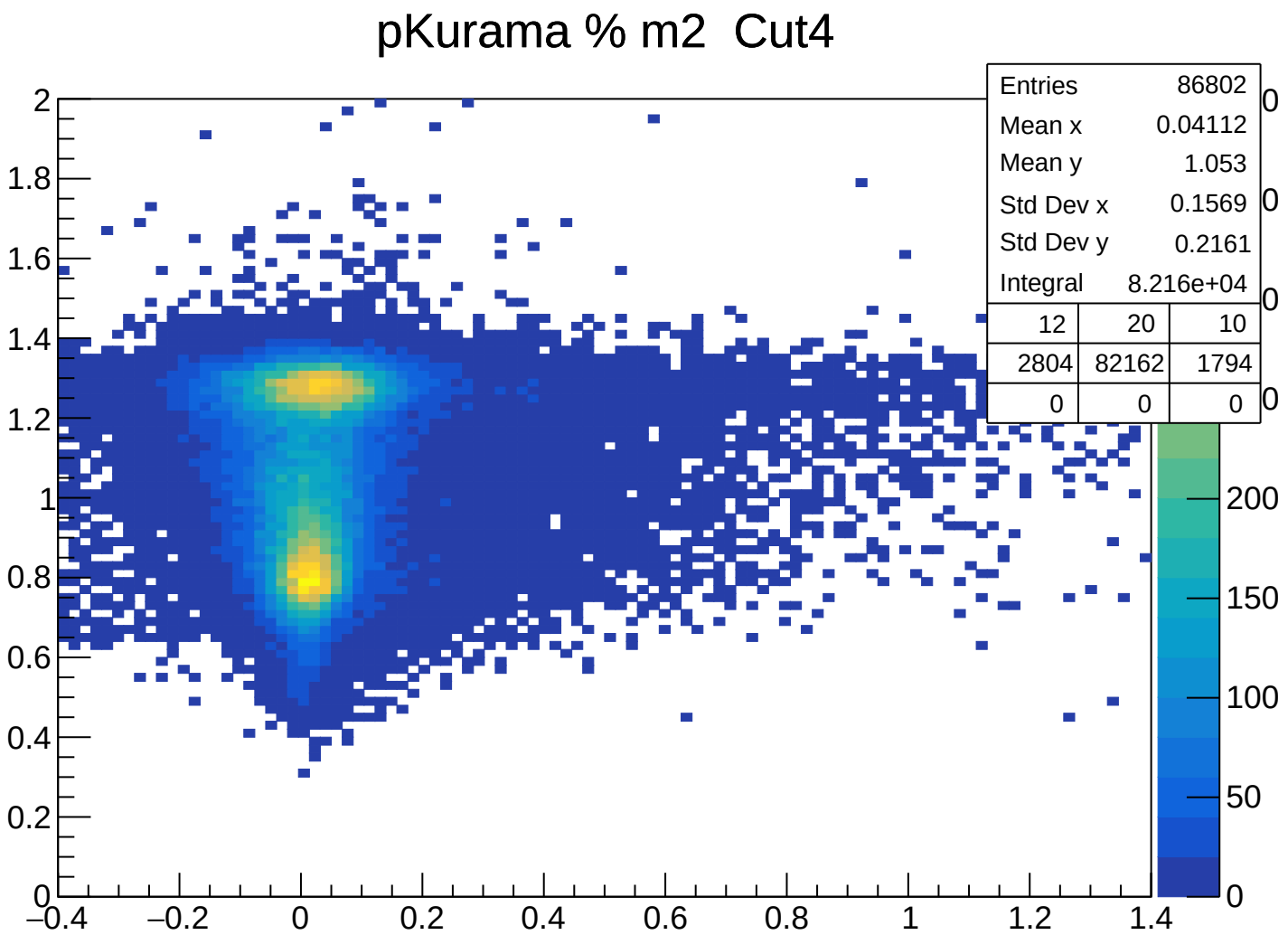

tofsegKurama[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 16.97
Std Dev x 7.302
Std Dev y 3.553
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500

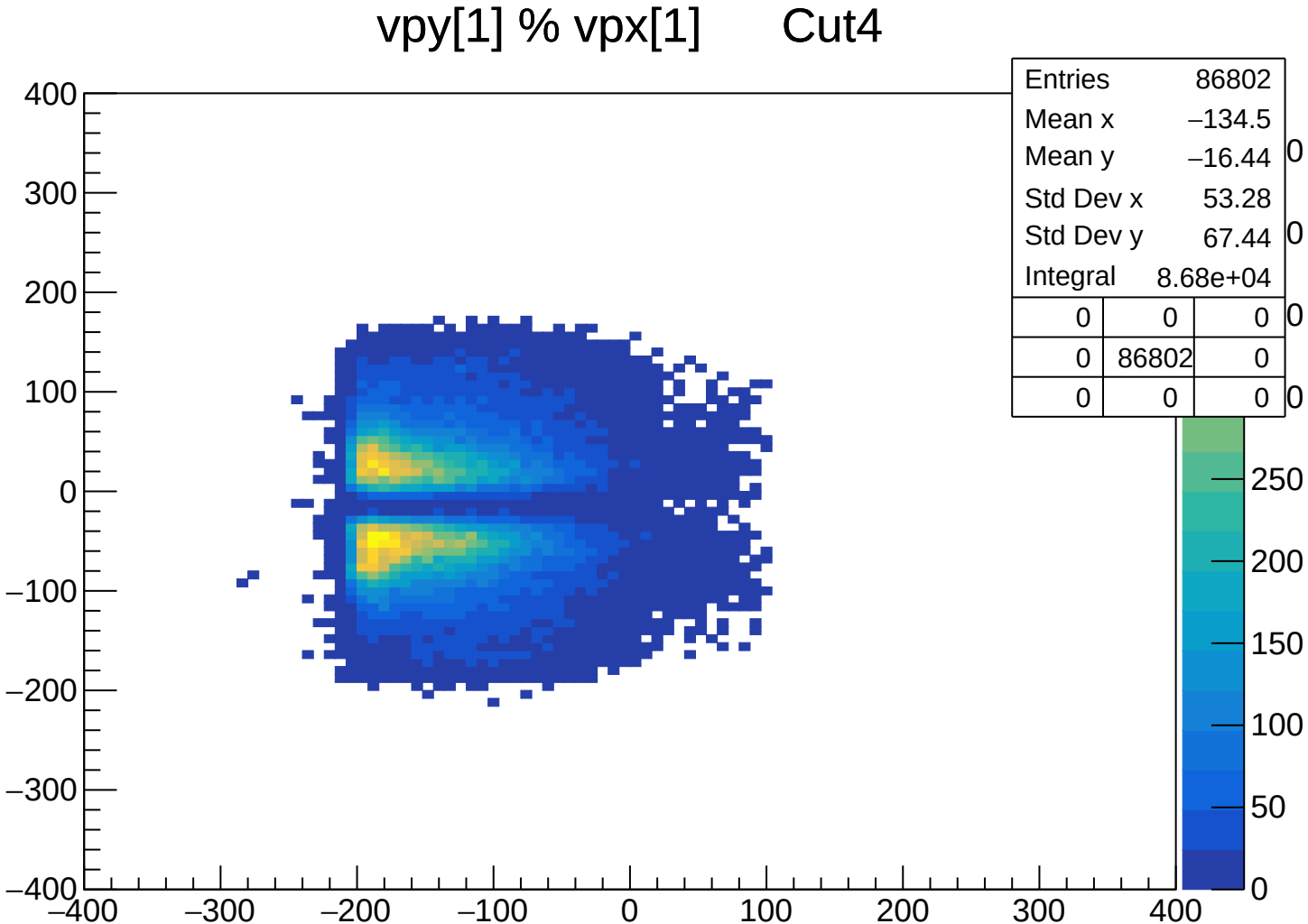

pKurama % m2 Cut3
Entries 18322
Mean x 0.5098
Mean y 1.001
Std Dev x 0.4182
Std Dev y 0.3533
Integral 1.762e+04
2 2 9
201 17622 486
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
40
30
20
10
0

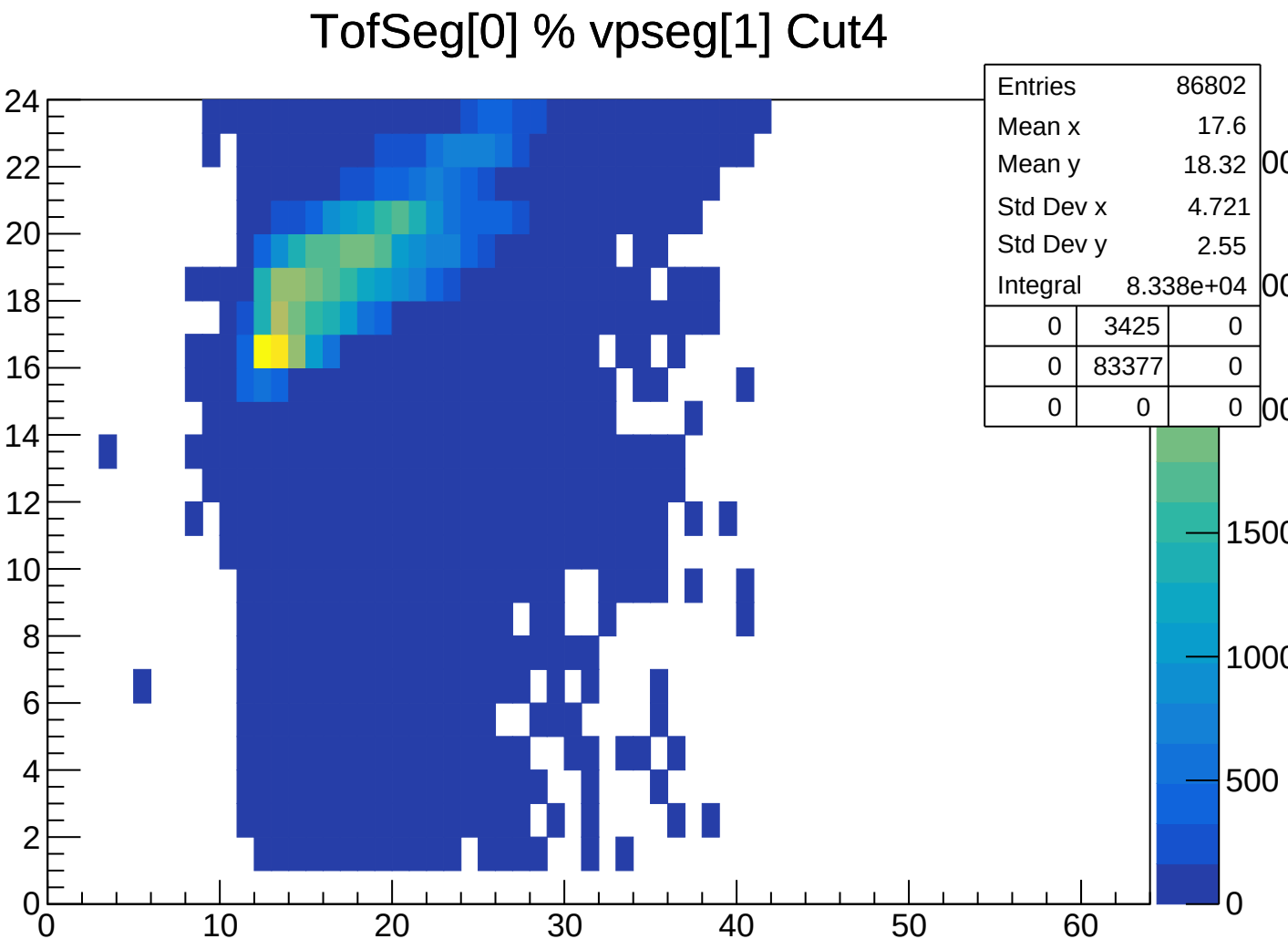

vpy[1] % vpx[1] Cut3
Entries 18322
Mean x –34.71
Mean y –15.29
Std Dev x 109.6
Std Dev y 97.68
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
15
10
5
0

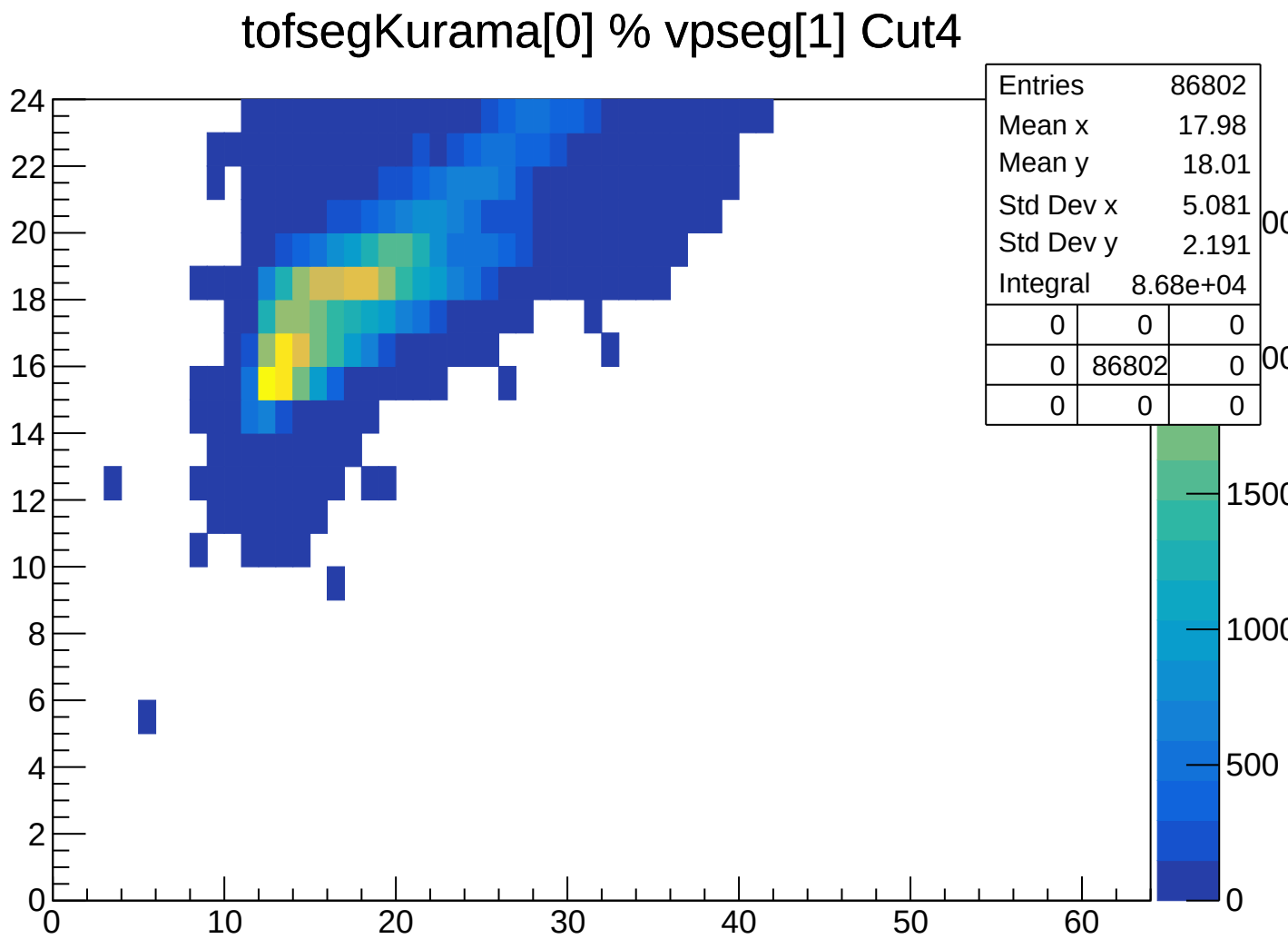

TofSeg[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.44
Std Dev y 4.547
Integral 1.831e+04
0 8 0
0 18314 0
0 0 0
0
10
20
30
40
50
60
0
2
4
6
8
10
12
14
16
18
20
22
24
0
20
40
60
80
100


tofsegKurama[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
0 0 0
0 18322 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
100

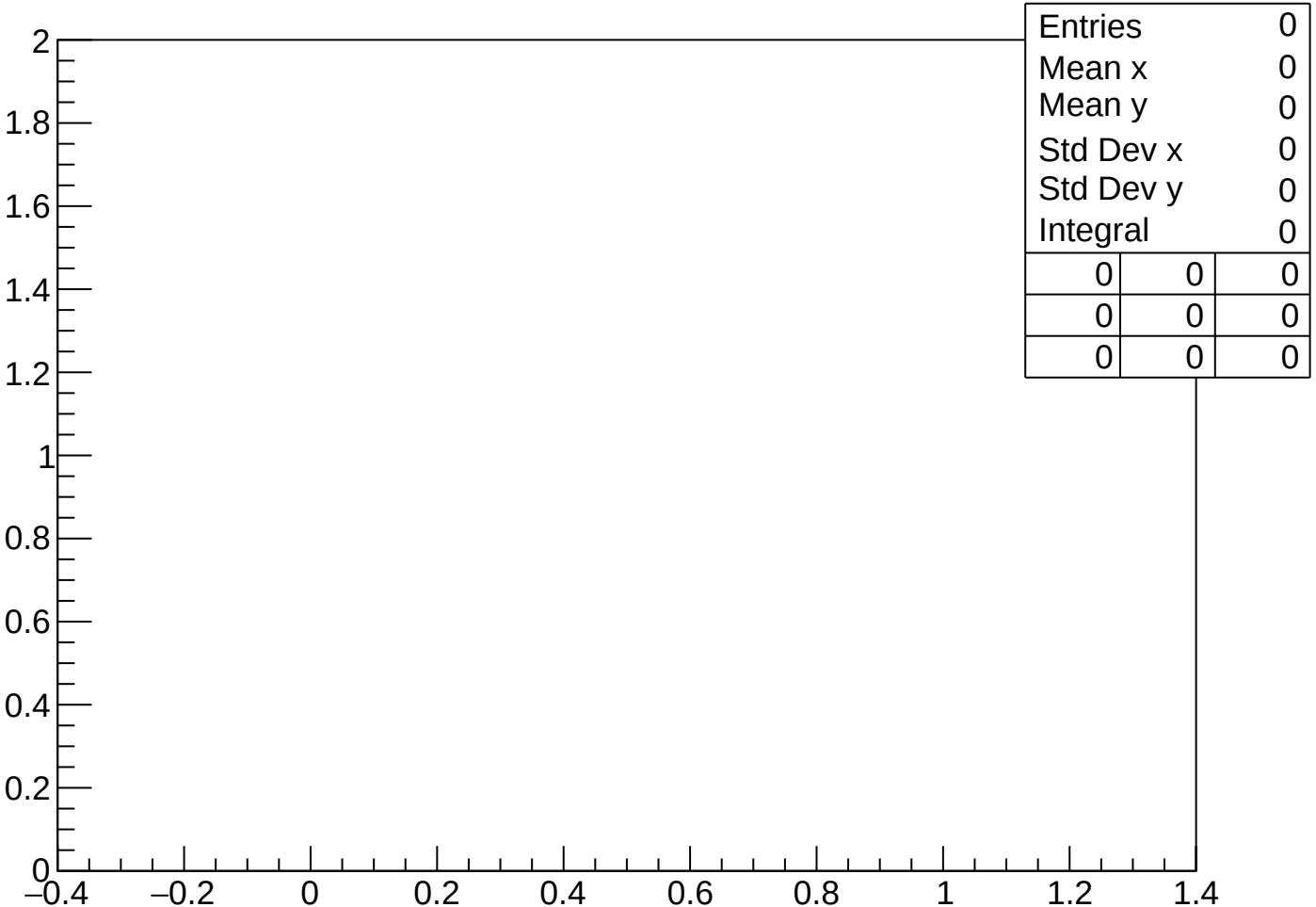

pKurama % m2 Cut4
Entries 86802
Mean x 0.04112
Mean y 1.053
Std Dev x 0.1569
Std Dev y 0.2161
Integral 8.216e+04
12 20 10
2804 82162 1794
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
200
150
100
50
0

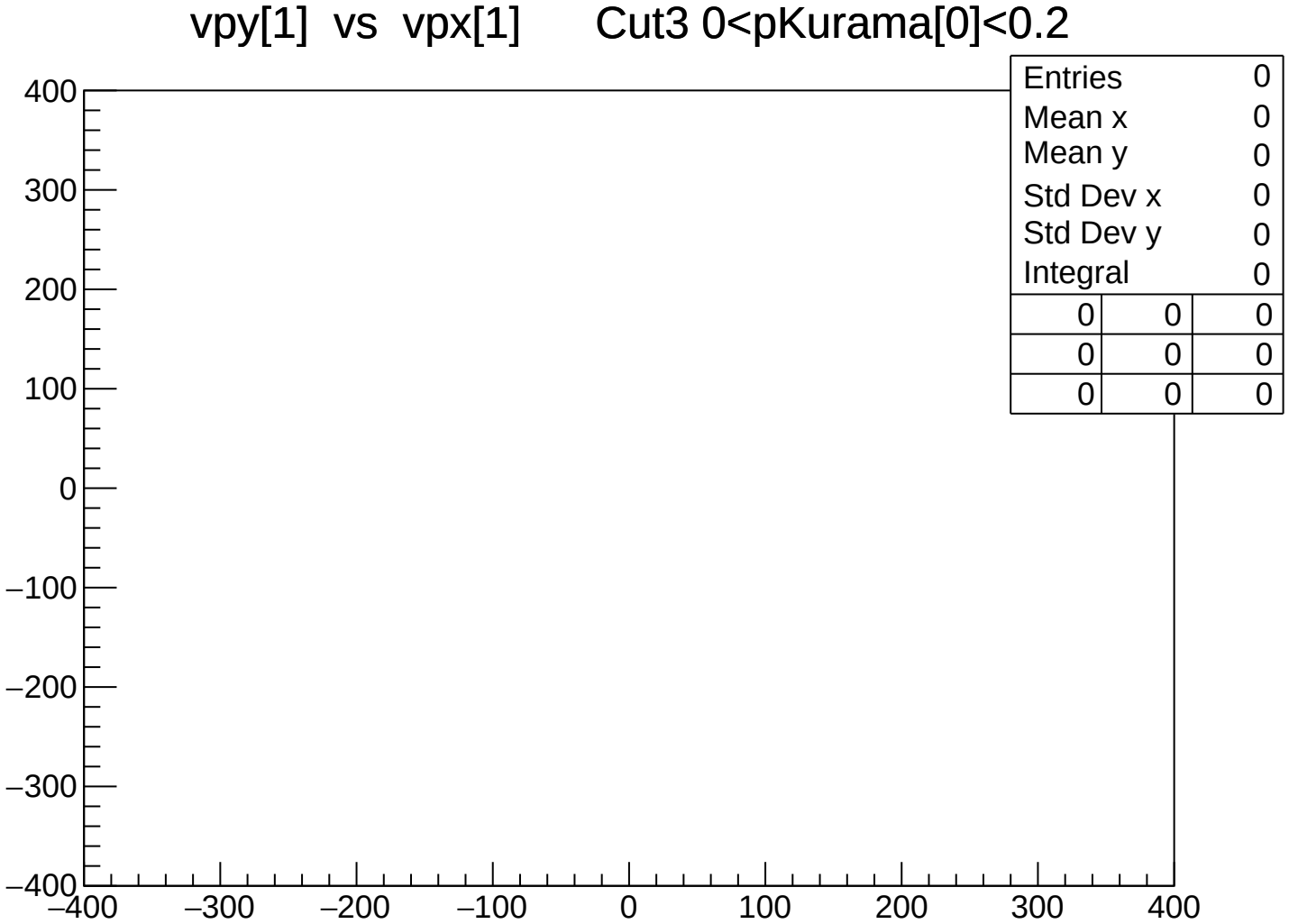

vpy[1] % vpx[1] Cut4
Entries 86802
Mean x –134.5
Mean y –16.44
Std Dev x 53.28
Std Dev y 67.44
Integral 8.68e+04
0 0 0
0 86802 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
250
200
150
100
50
0

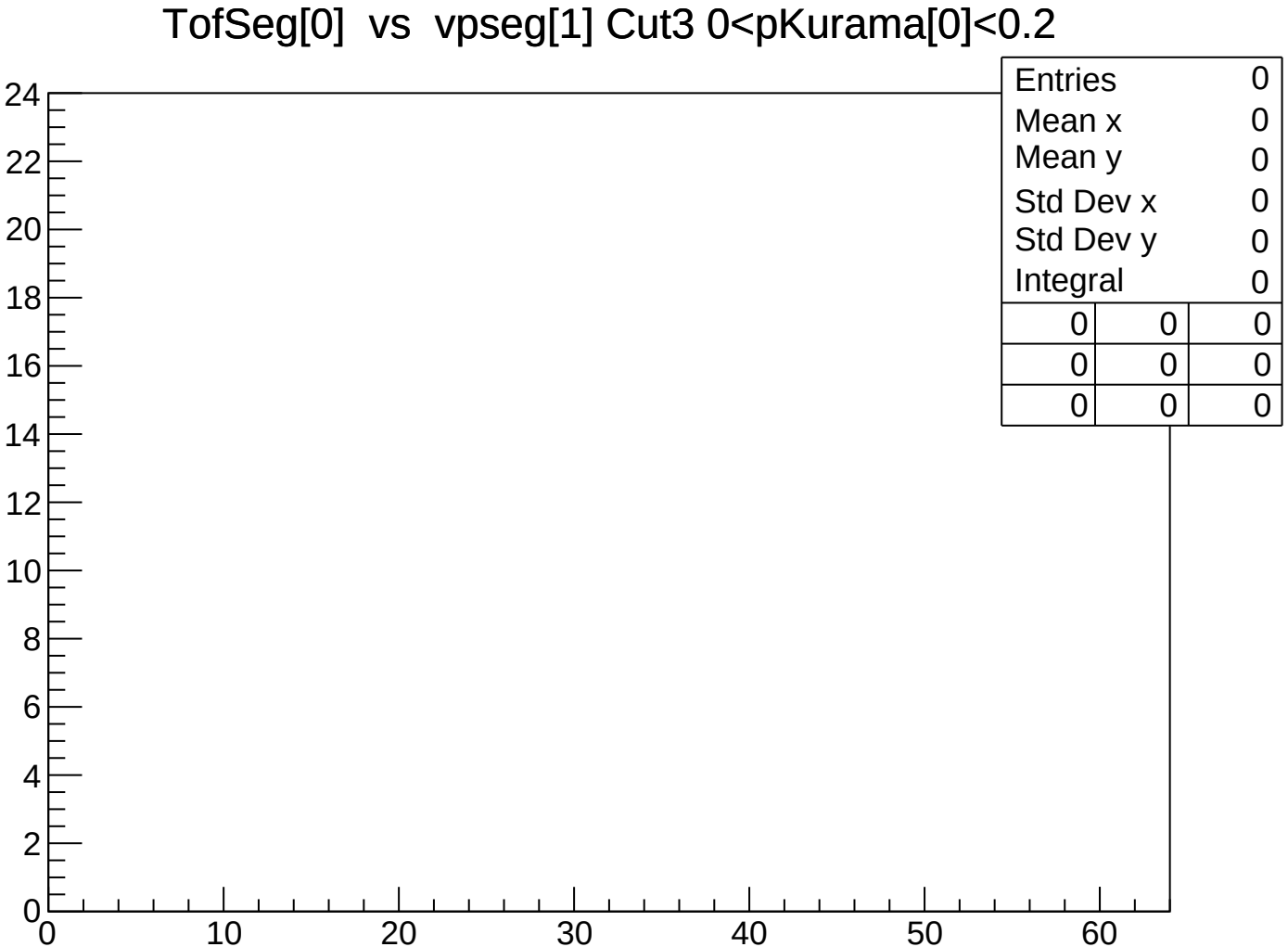

TofSeg[0] % vpseg[1] Cut4
Entries 86802
Mean x 17.6
Mean y 18.32
Std Dev x 4.721
Std Dev y 2.55
Integral 8.338e+04
0 3425 0
0 83377 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500

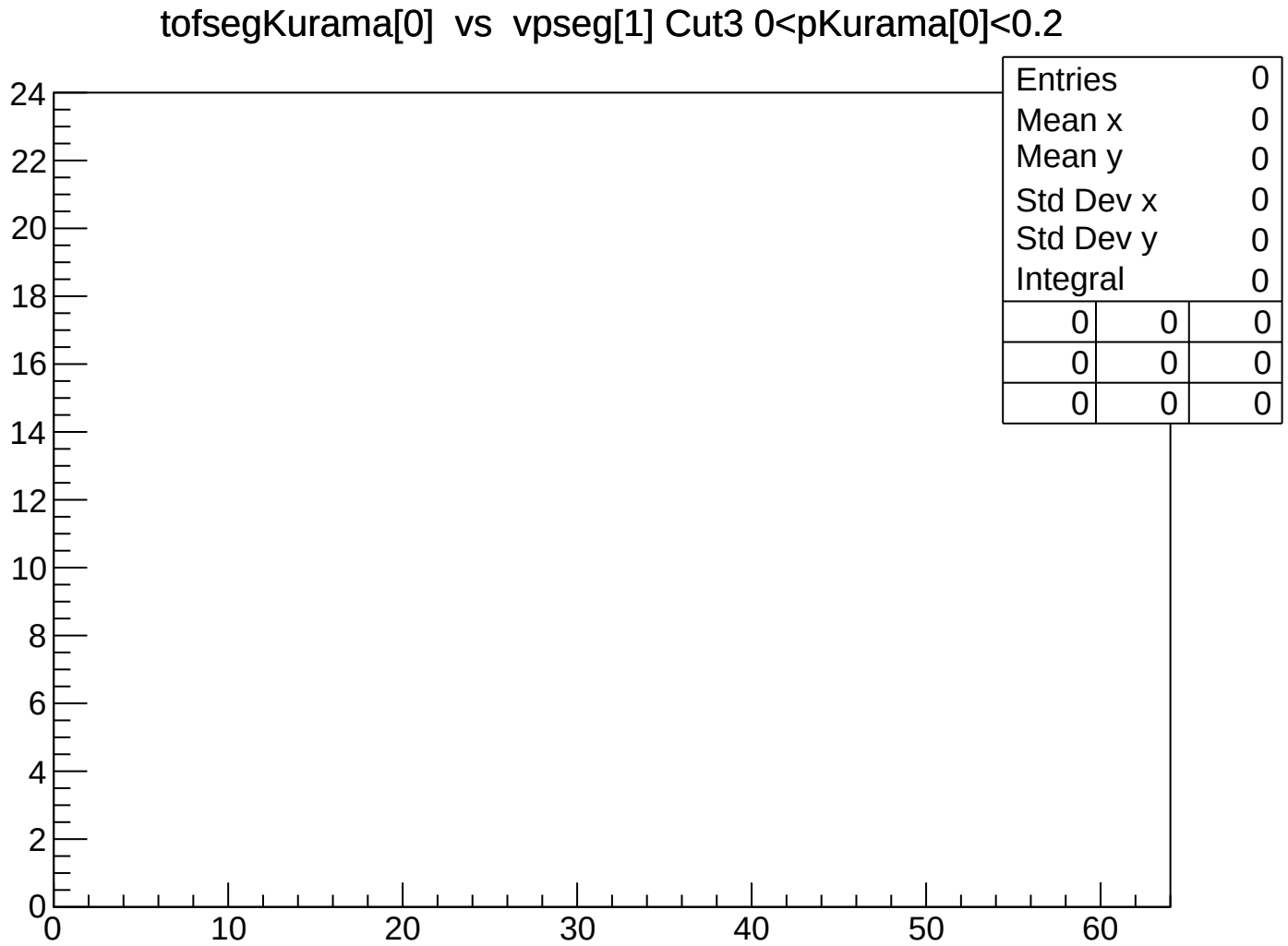

tofsegKurama[0] % vpseg[1] Cut4
Entries 86802
Mean x 17.98
Mean y 18.01
Std Dev x 5.081
Std Dev y 2.191
Integral 8.68e+04
0 0 0
0 86802 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
500
1000
1500

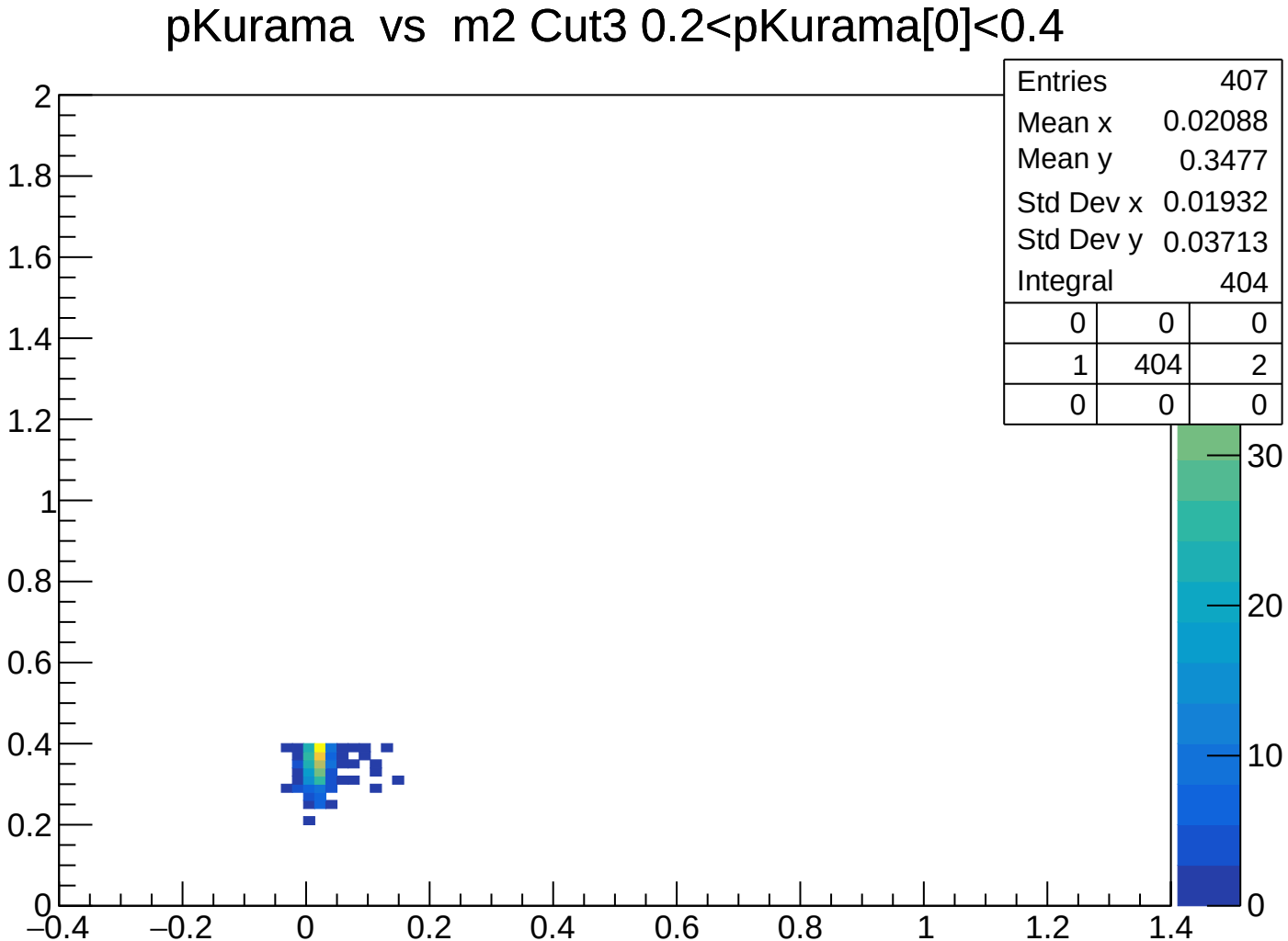
pKurama vs m2 Cut3 0<pKurama[0]<0.2

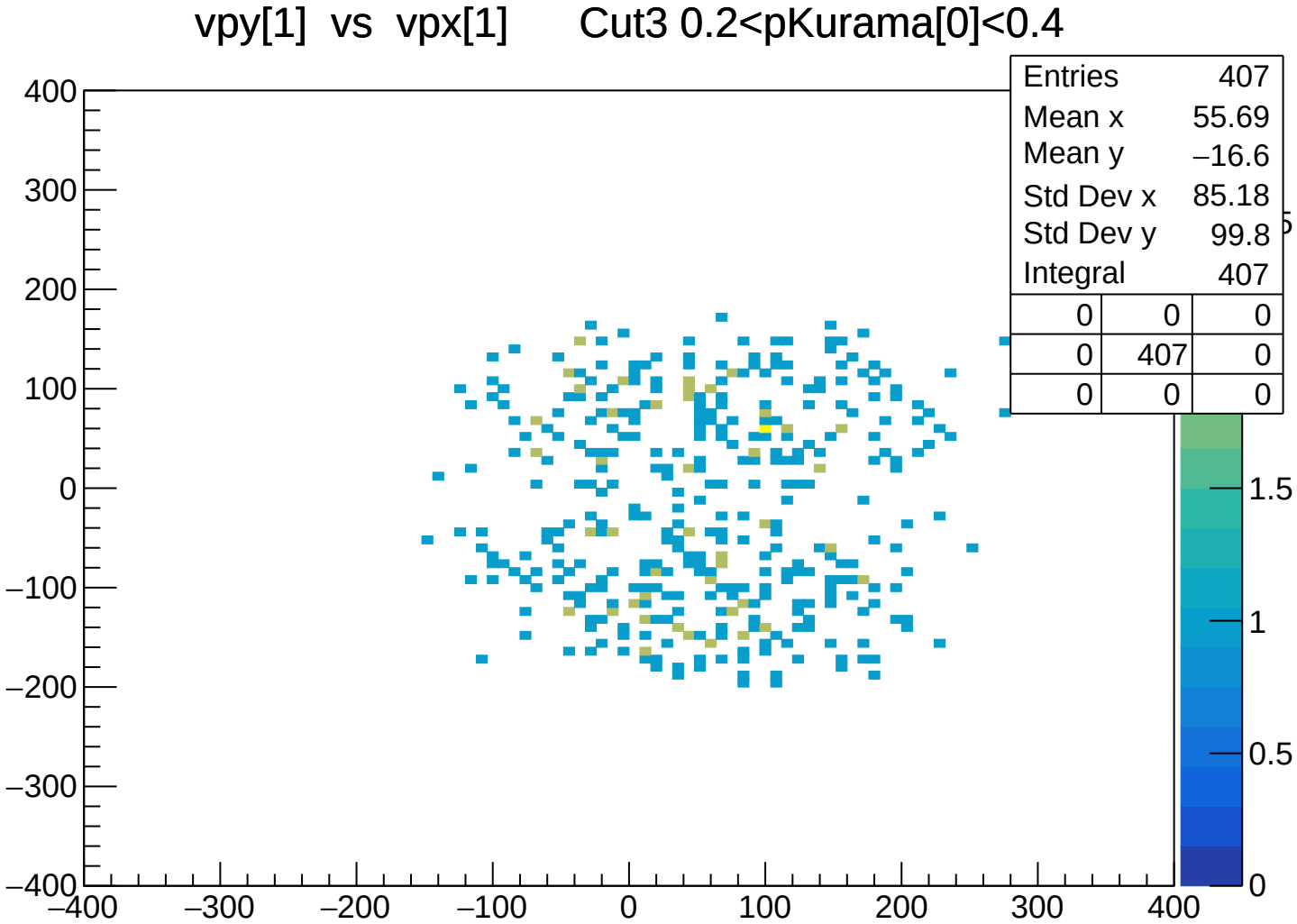


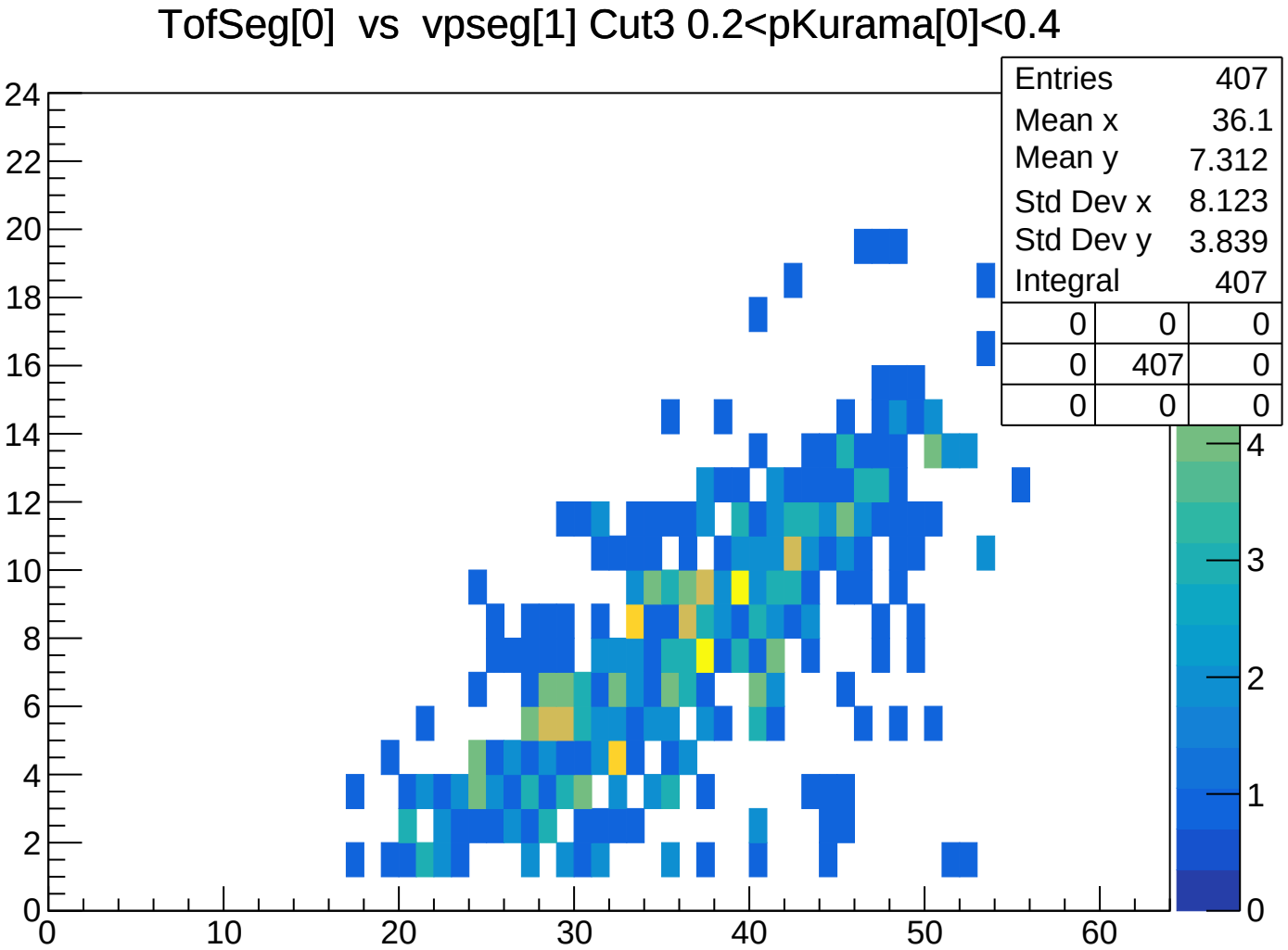

vpy[1] vs vpx[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

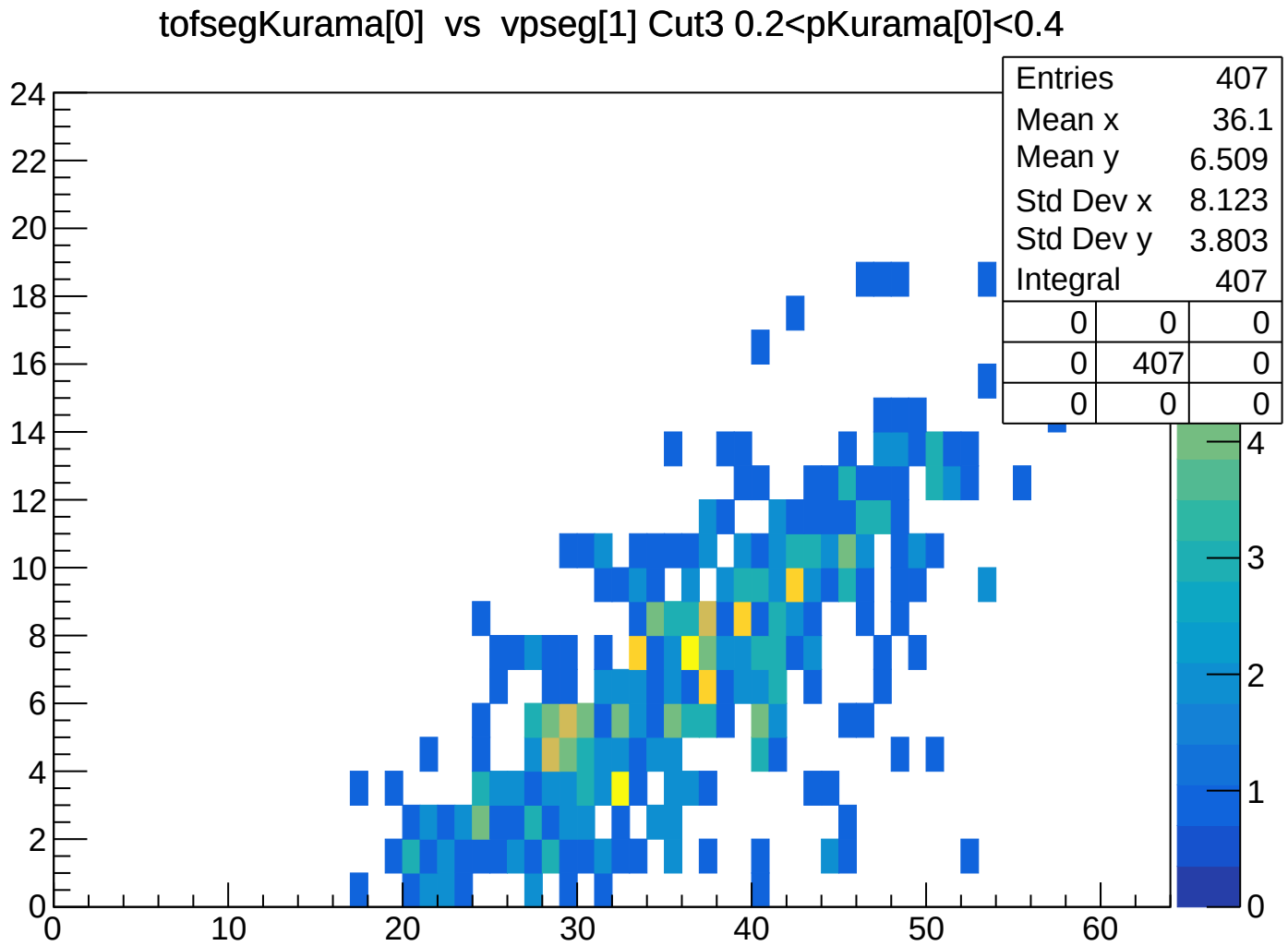

TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

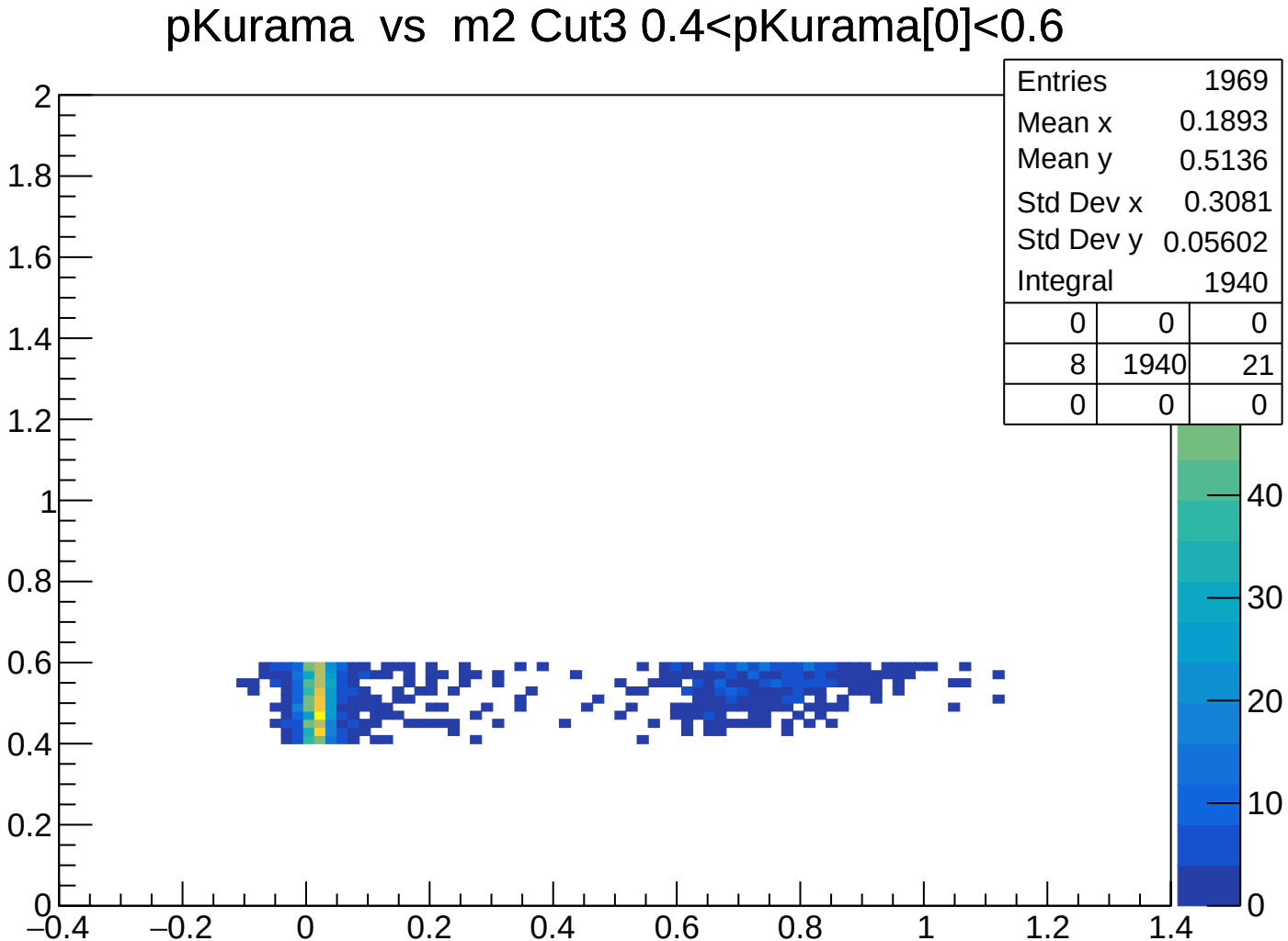

tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

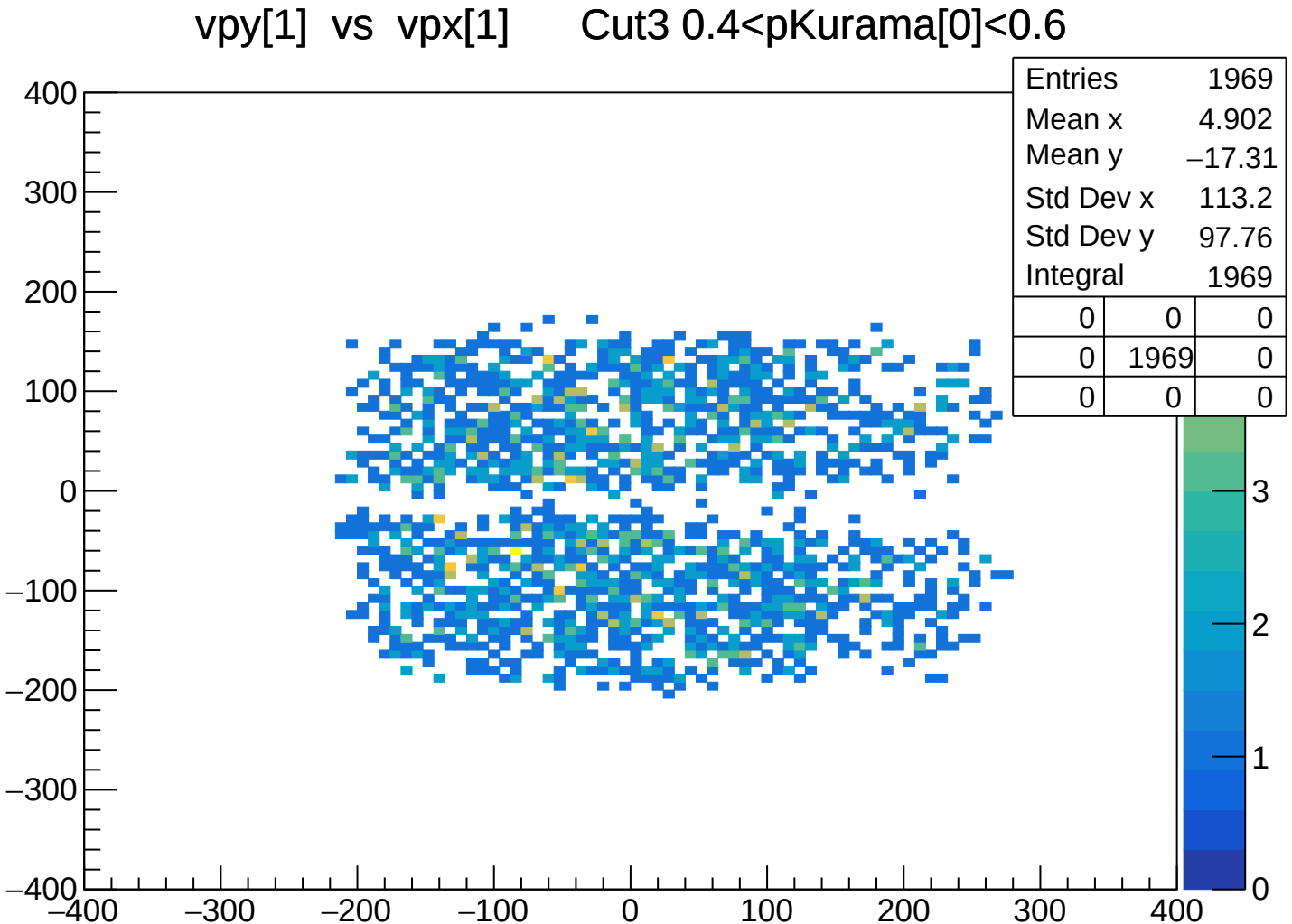

pKurama vs m2 Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 0.02088
Mean y 0.3477
Std Dev x 0.01932
Std Dev y 0.03713
Integral 404
0 0 0
1 404 2
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

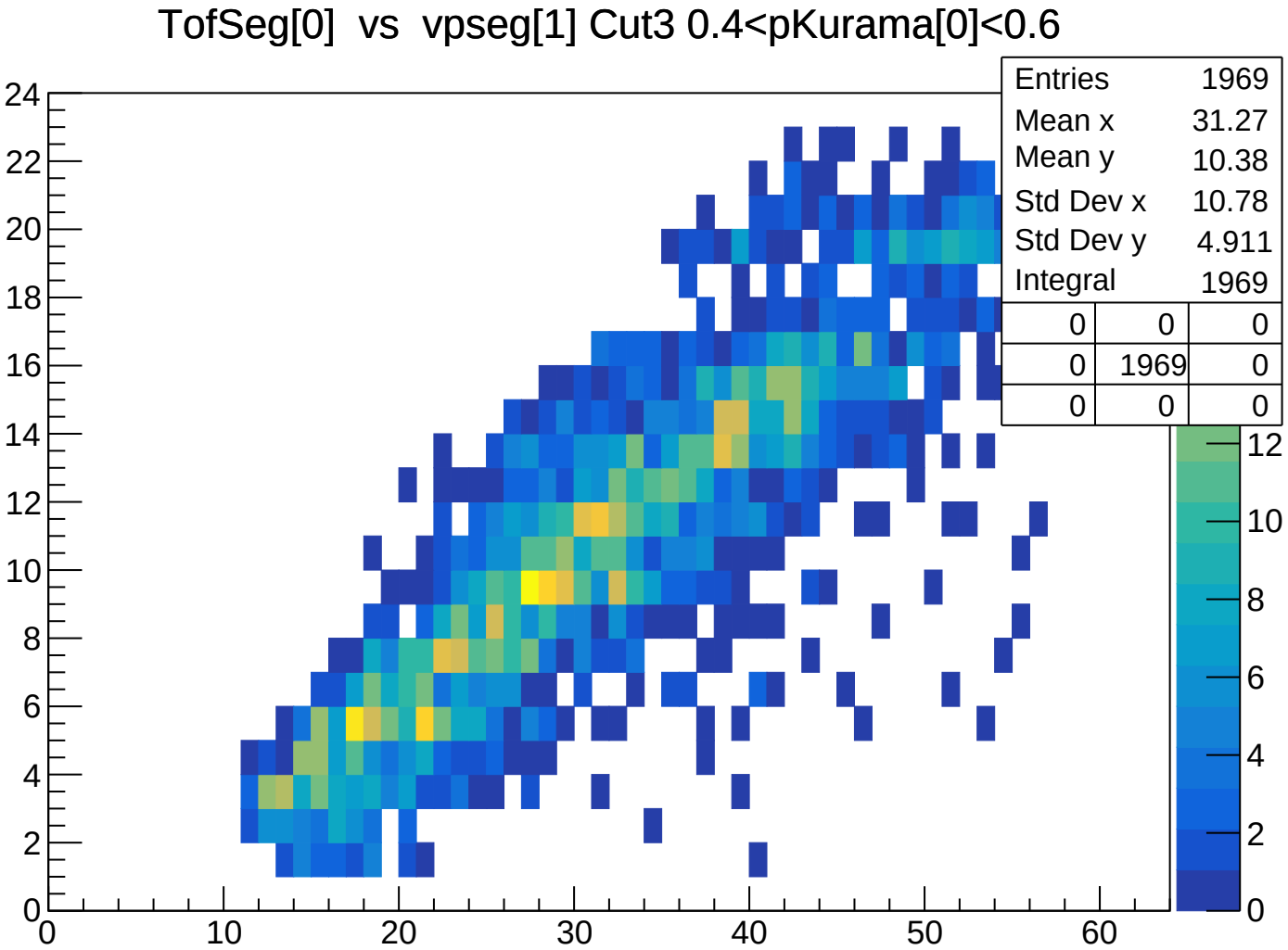

vpy[1] vs vpx[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 55.69
Mean y −16.6
Std Dev x 85.18
Std Dev y 99.8
Integral 407
0 0 0
0 407 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
1.5
1
0.5
0

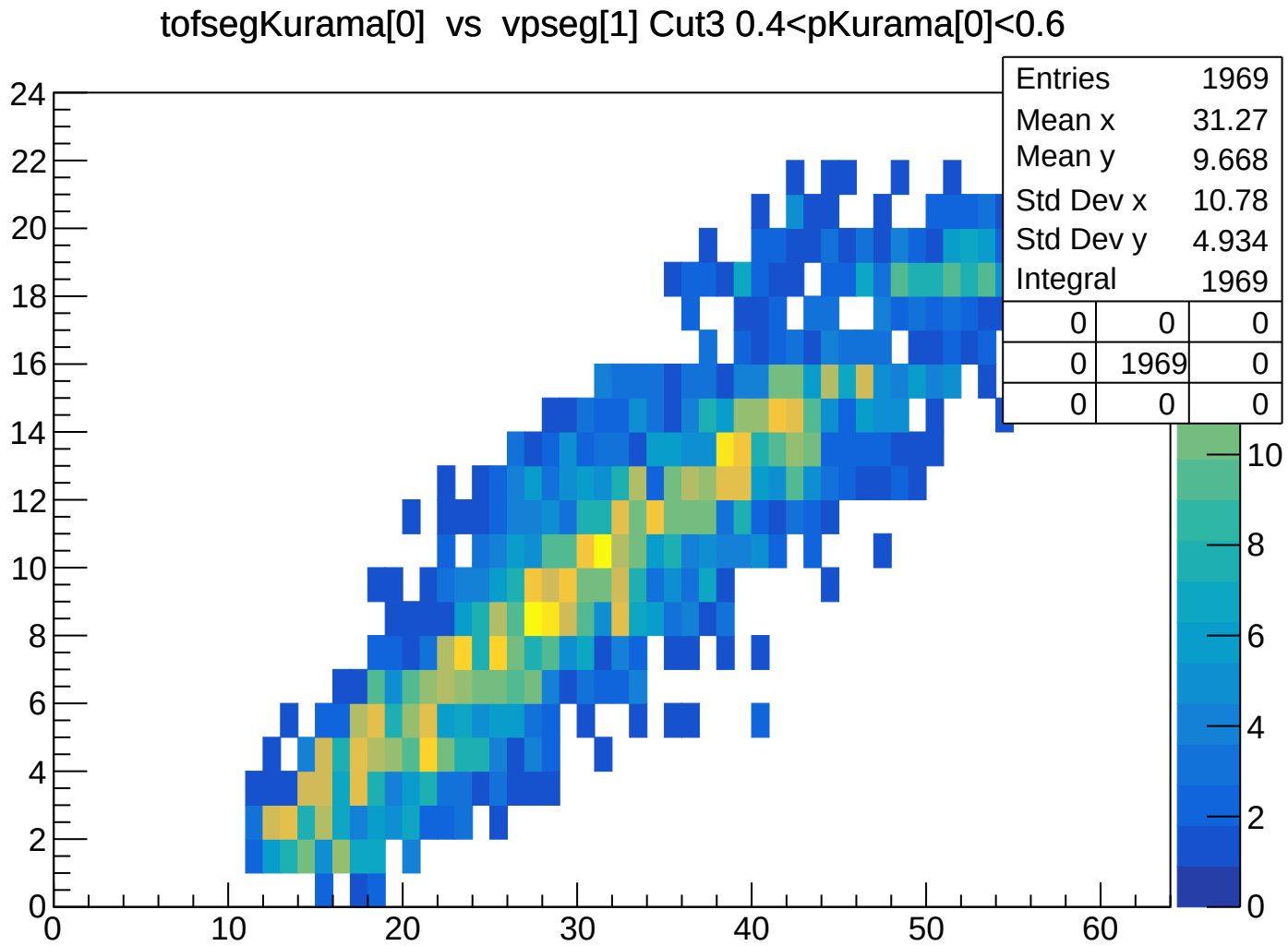

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 36.1
Mean y 7.312
Std Dev x 8.123
Std Dev y 3.839
Integral 407
0 0 0
0 407 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1
2
3
4

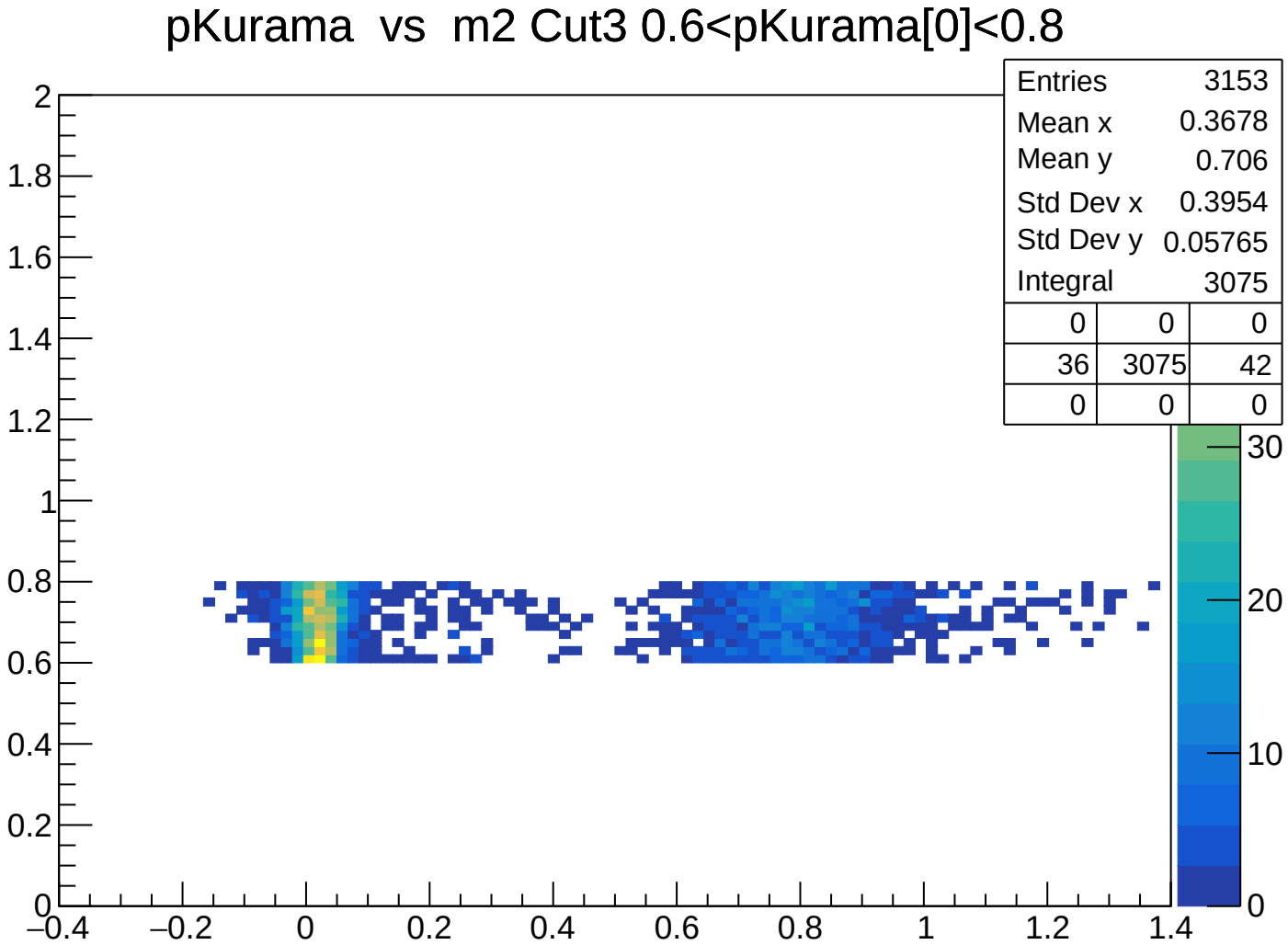

tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 36.1
Mean y 6.509
Std Dev x 8.123
Std Dev y 3.803
Integral 407
0 0 0
0 407 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1
2
3
4

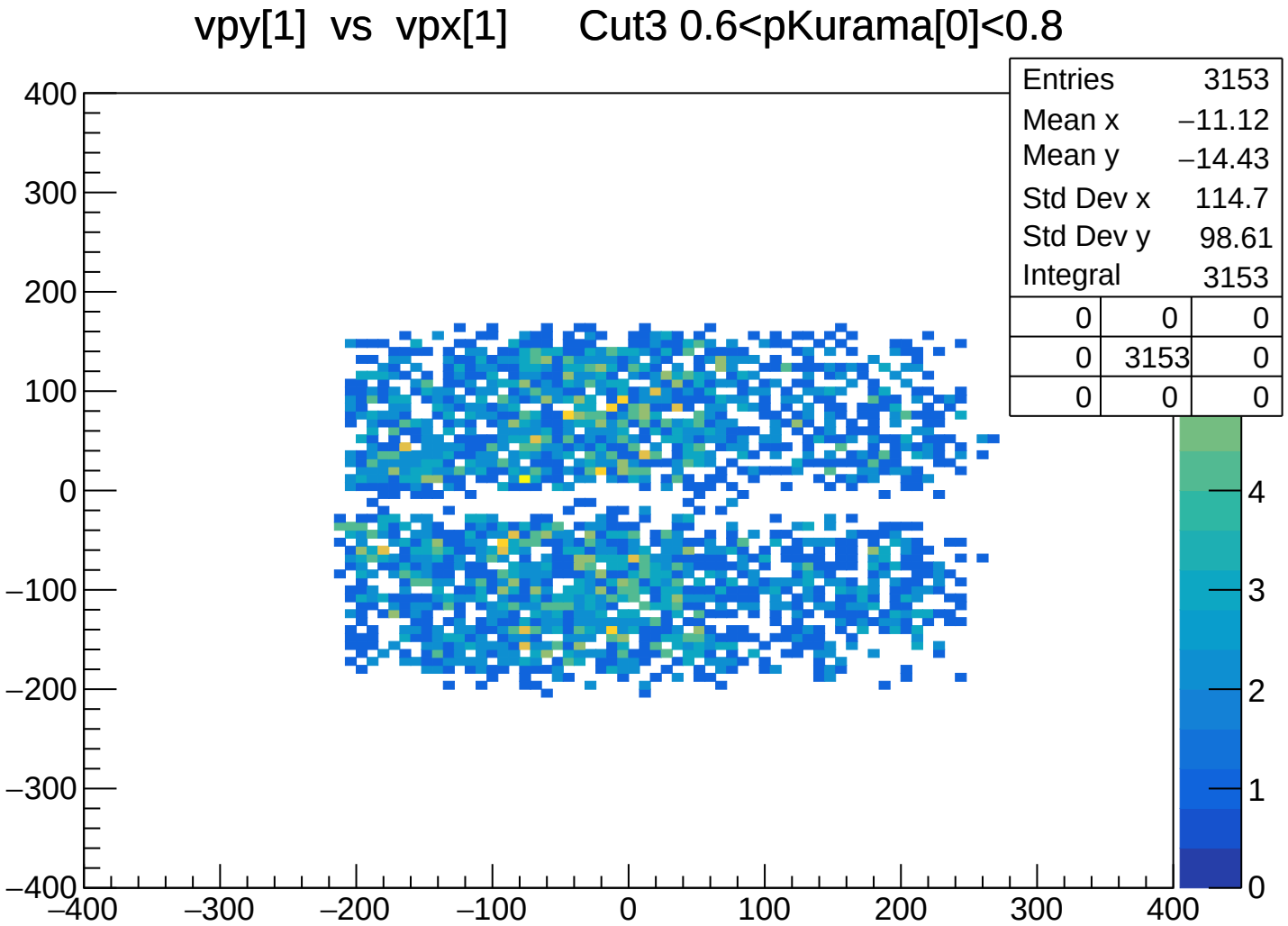

pKurama vs m2 Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 0.1893
Mean y 0.5136
Std Dev x 0.3081
Std Dev y 0.05602
Integral 1940
0 0 0
8 1940 21
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
40
30
20
10
0

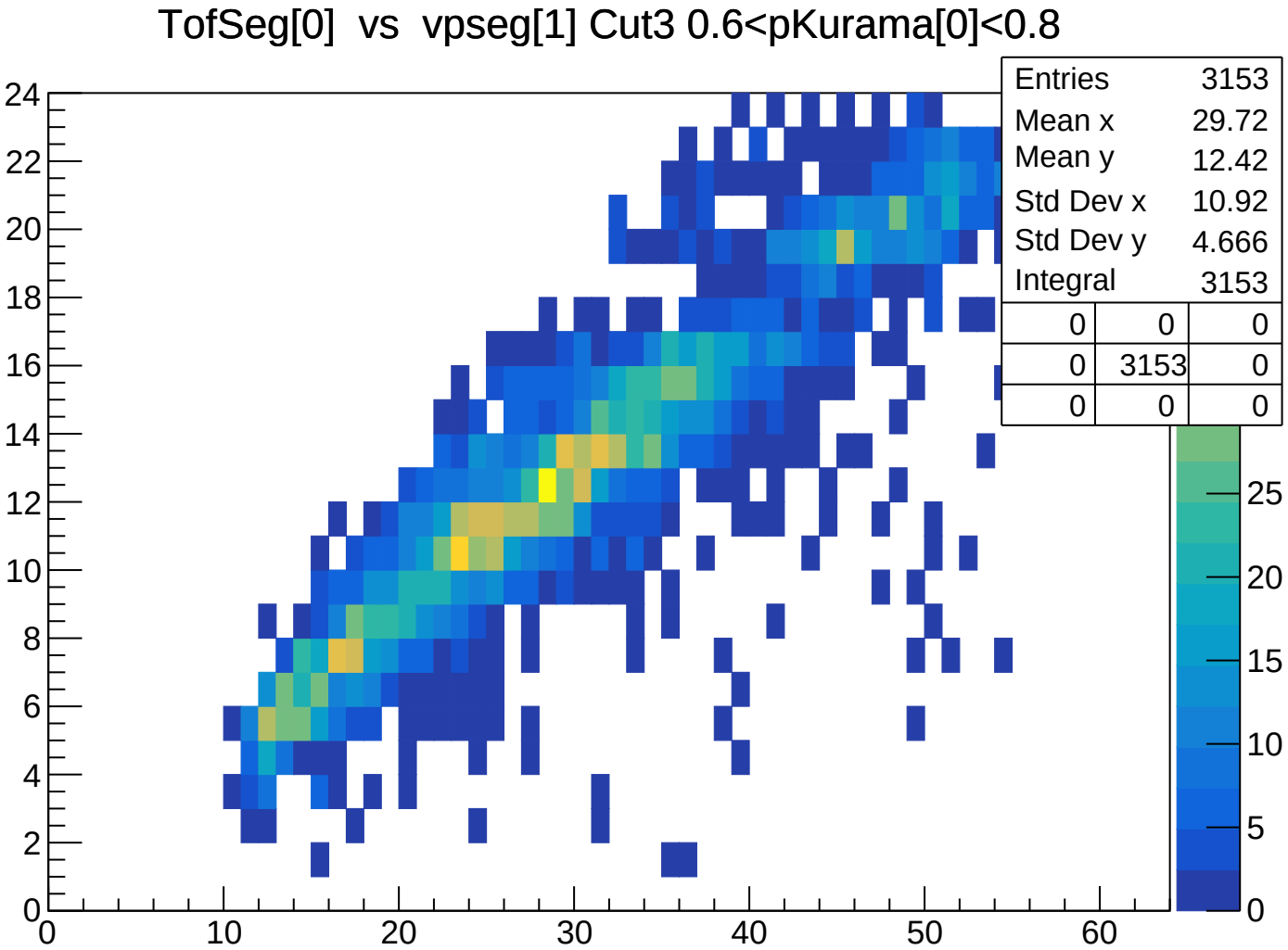

vpy[1] vs vpx[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 4.902
Mean y −17.31
Std Dev x 113.2
Std Dev y 97.76
Integral 1969
0 0 0
0 1969 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
3
2
1
0

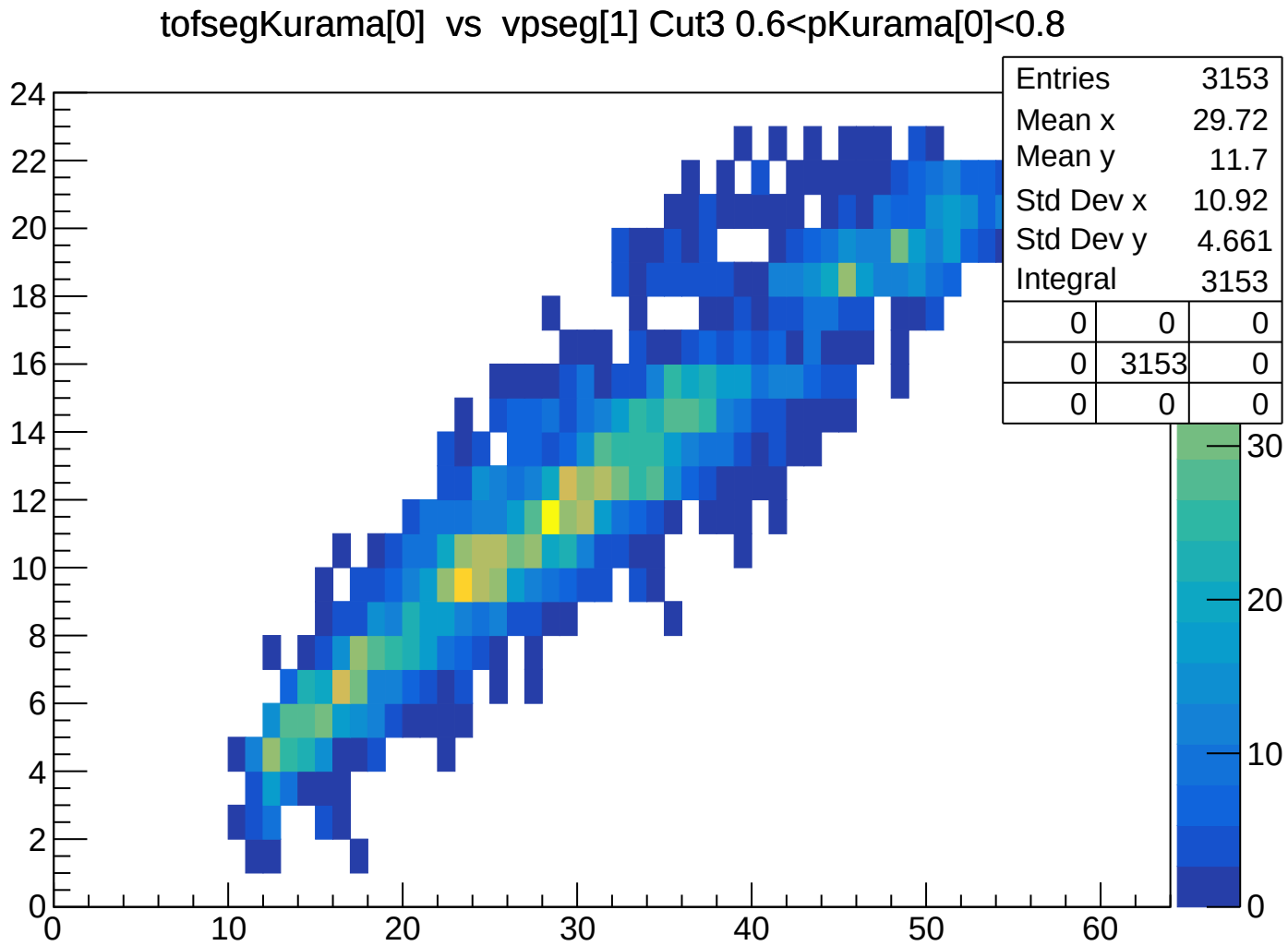

TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 31.27
Mean y 10.38
Std Dev x 10.78
Std Dev y 4.911
Integral 1969
0 0 0
0 1969 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2
4
6
8
10
12

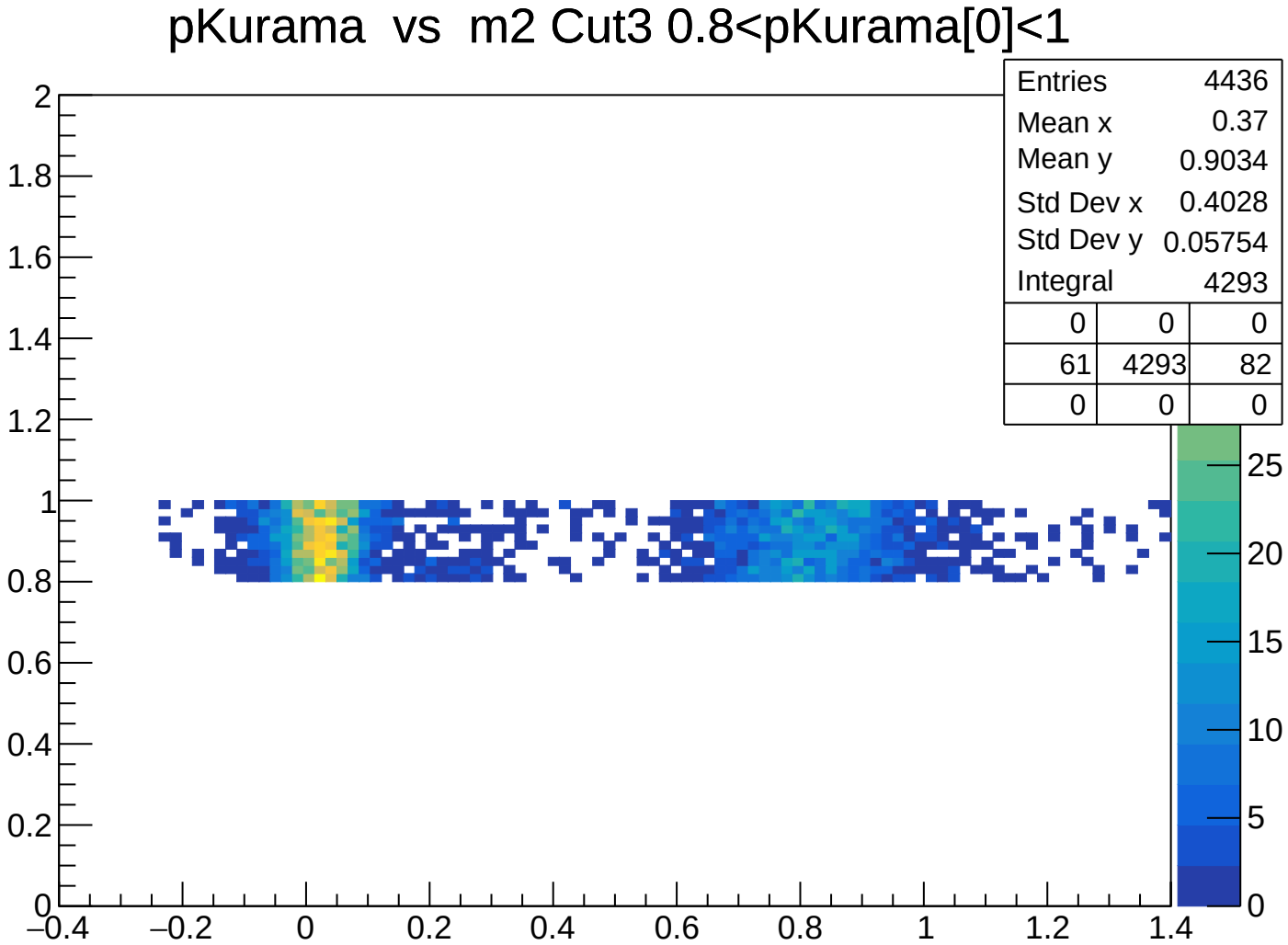

tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 31.27
Mean y 9.668
Std Dev x 10.78
Std Dev y 4.934
Integral 1969
0 0 0
0 1969 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2
4
6
8
10

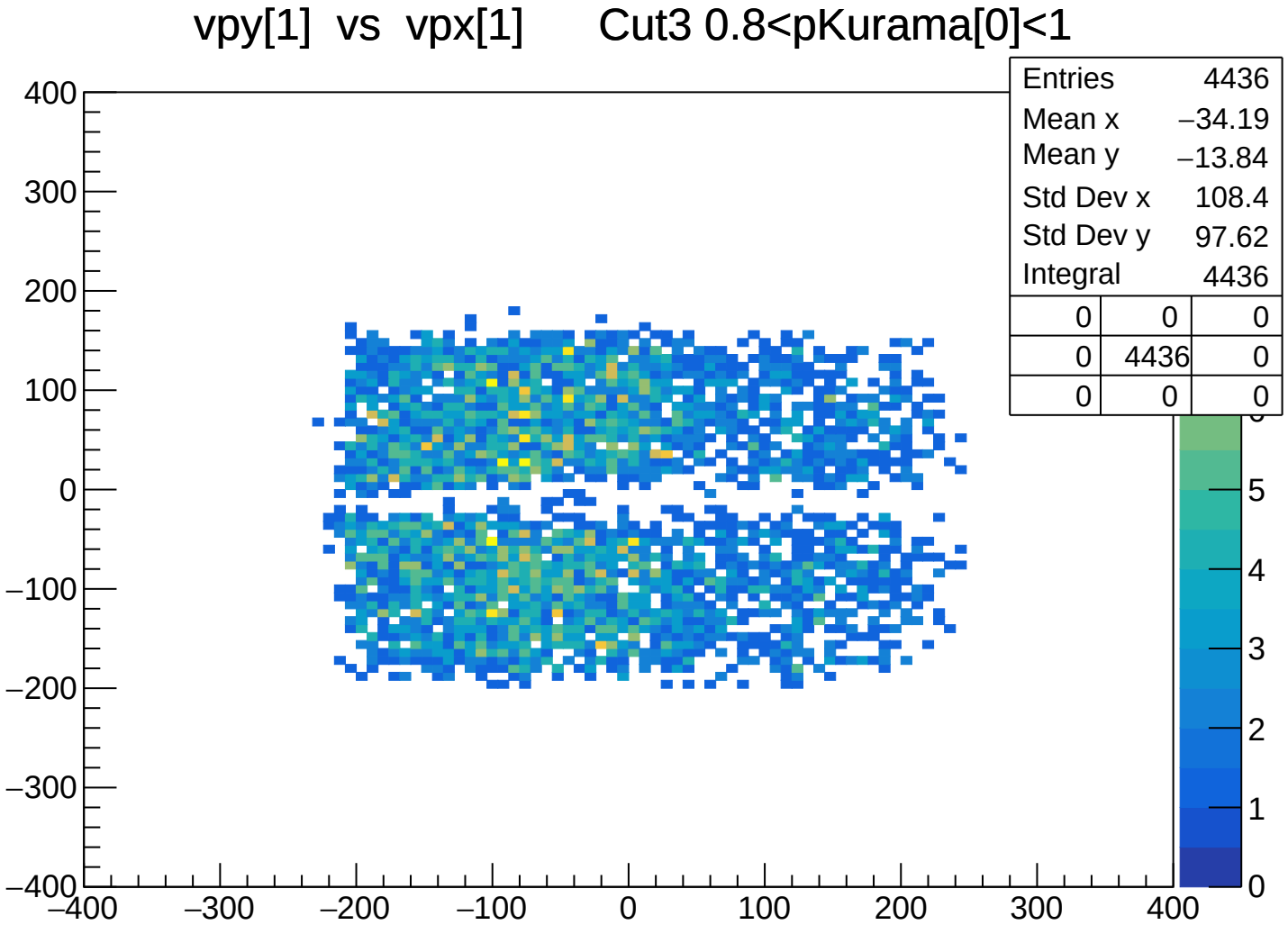

pKurama vs m2 Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 0.3678
Mean y 0.706
Std Dev x 0.3954
Std Dev y 0.05765
Integral 3075
0 0 0
36 3075 42
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
30
20
10
0

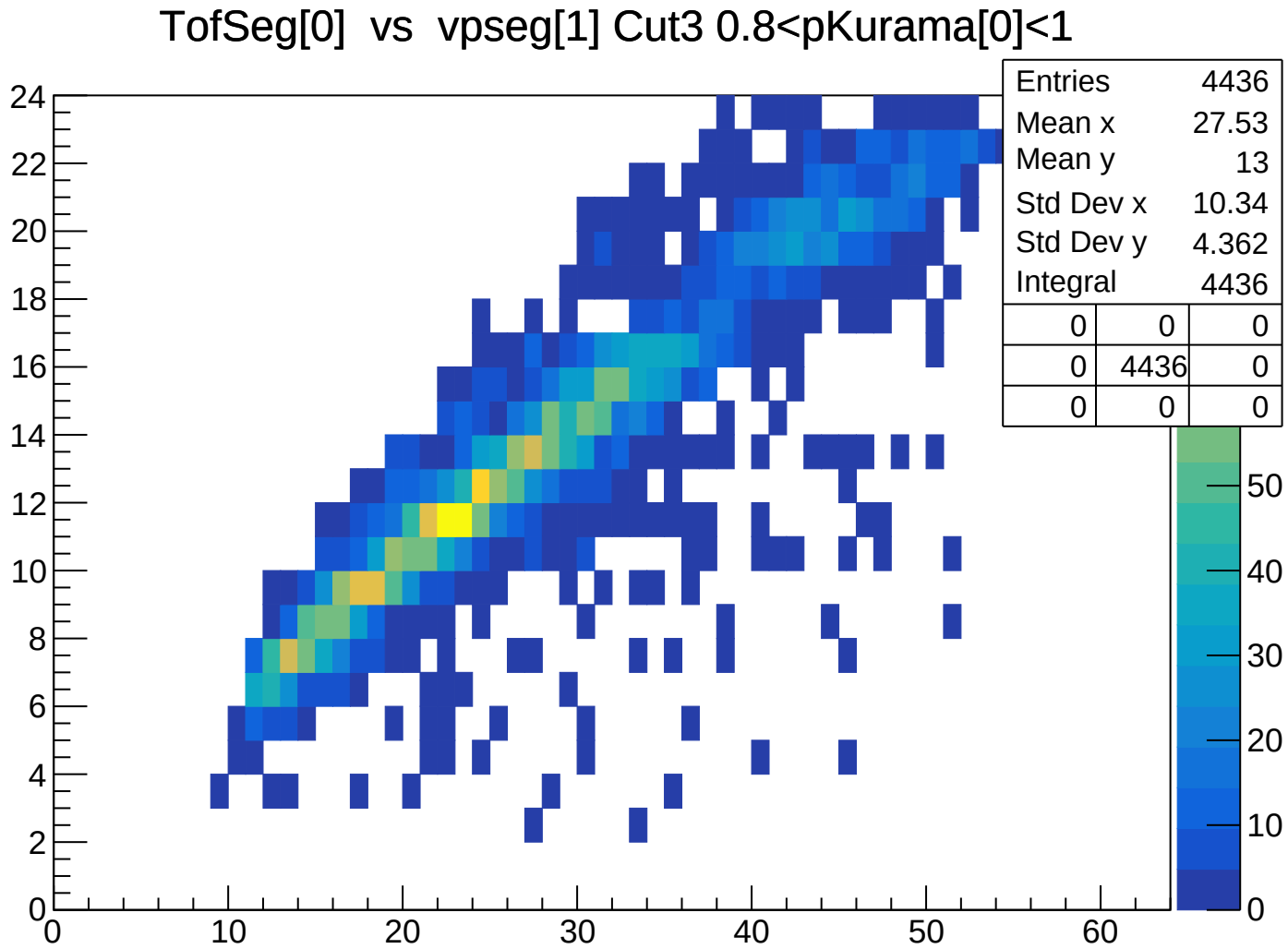

vpy[1] vs vpx[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x −11.12
Mean y −14.43
Std Dev x 114.7
Std Dev y 98.61
Integral 3153
0 0 0
0 3153 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
4
3
2
1
0

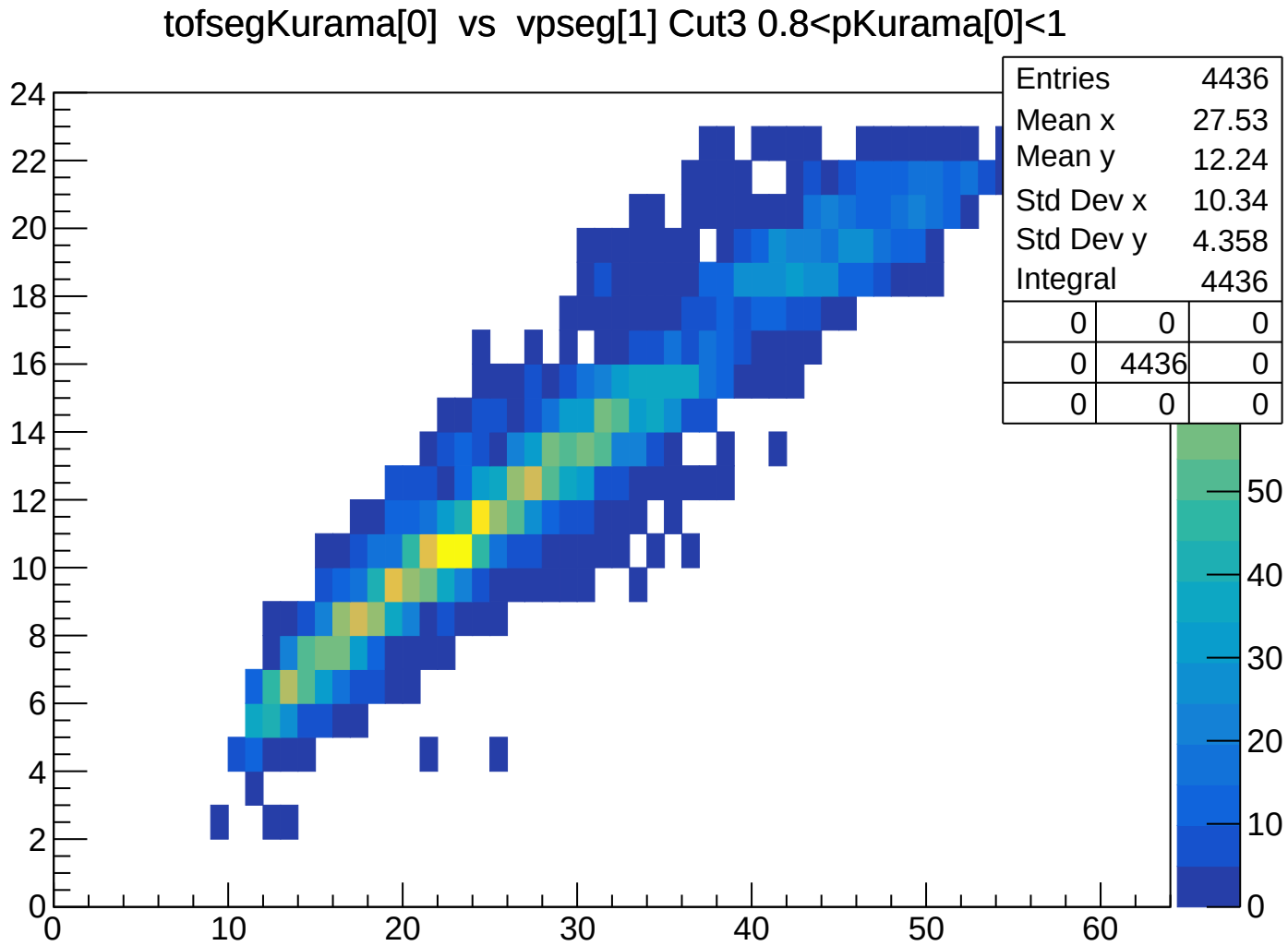

TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 29.72
Mean y 12.42
Std Dev x 10.92
Std Dev y 4.666
Integral 3153
0 0 0
0 3153 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60
0 5 10 15 20 25

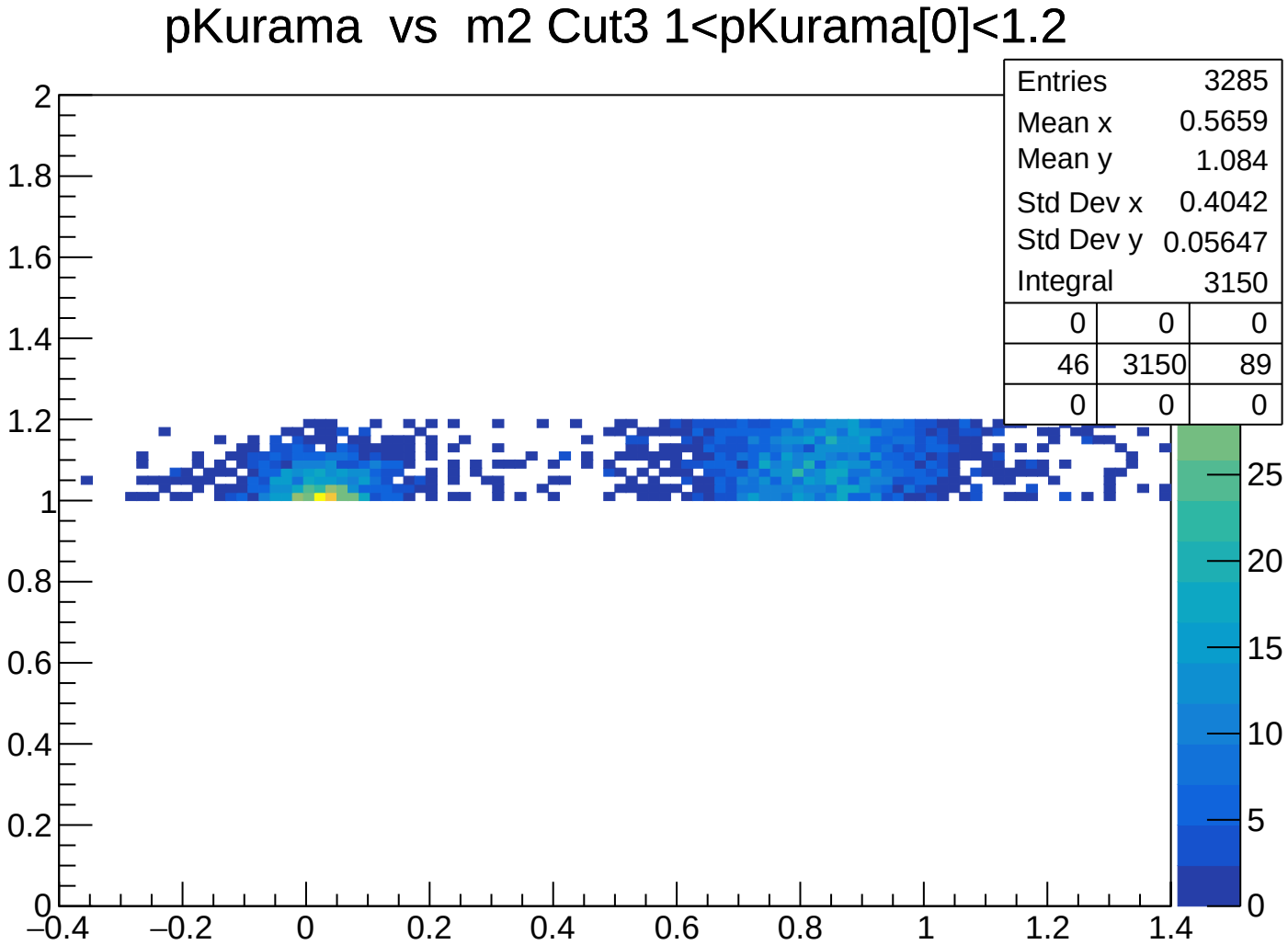

tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 29.72
Mean y 11.7
Std Dev x 10.92
Std Dev y 4.661
Integral 3153
0 0 0
0 3153 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

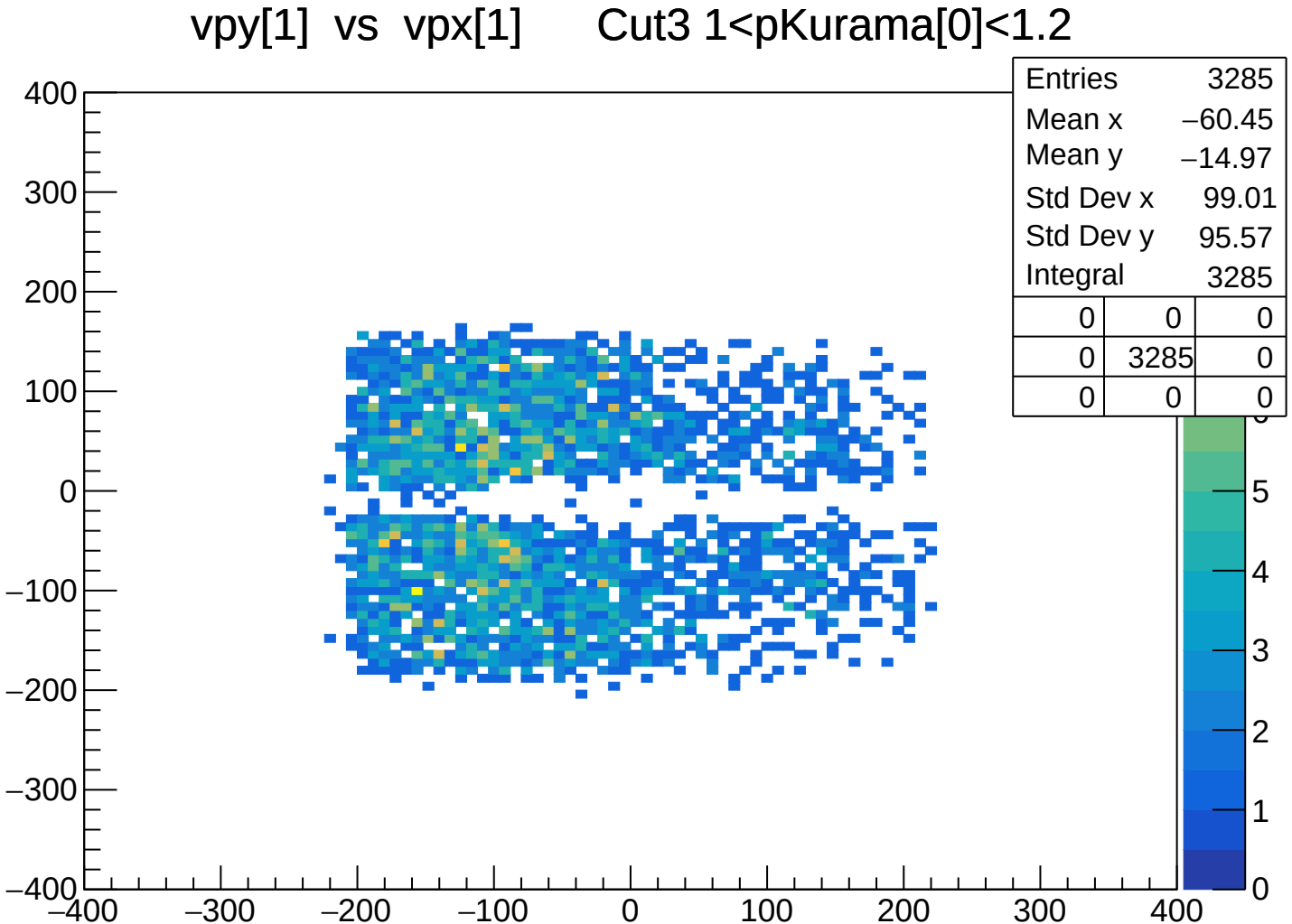

pKurama vs m2 Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 0.37
Mean y 0.9034
Std Dev x 0.4028
Std Dev y 0.05754
Integral 4293
0 0 0
61 4293 82
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
25
20
15
10
5
0

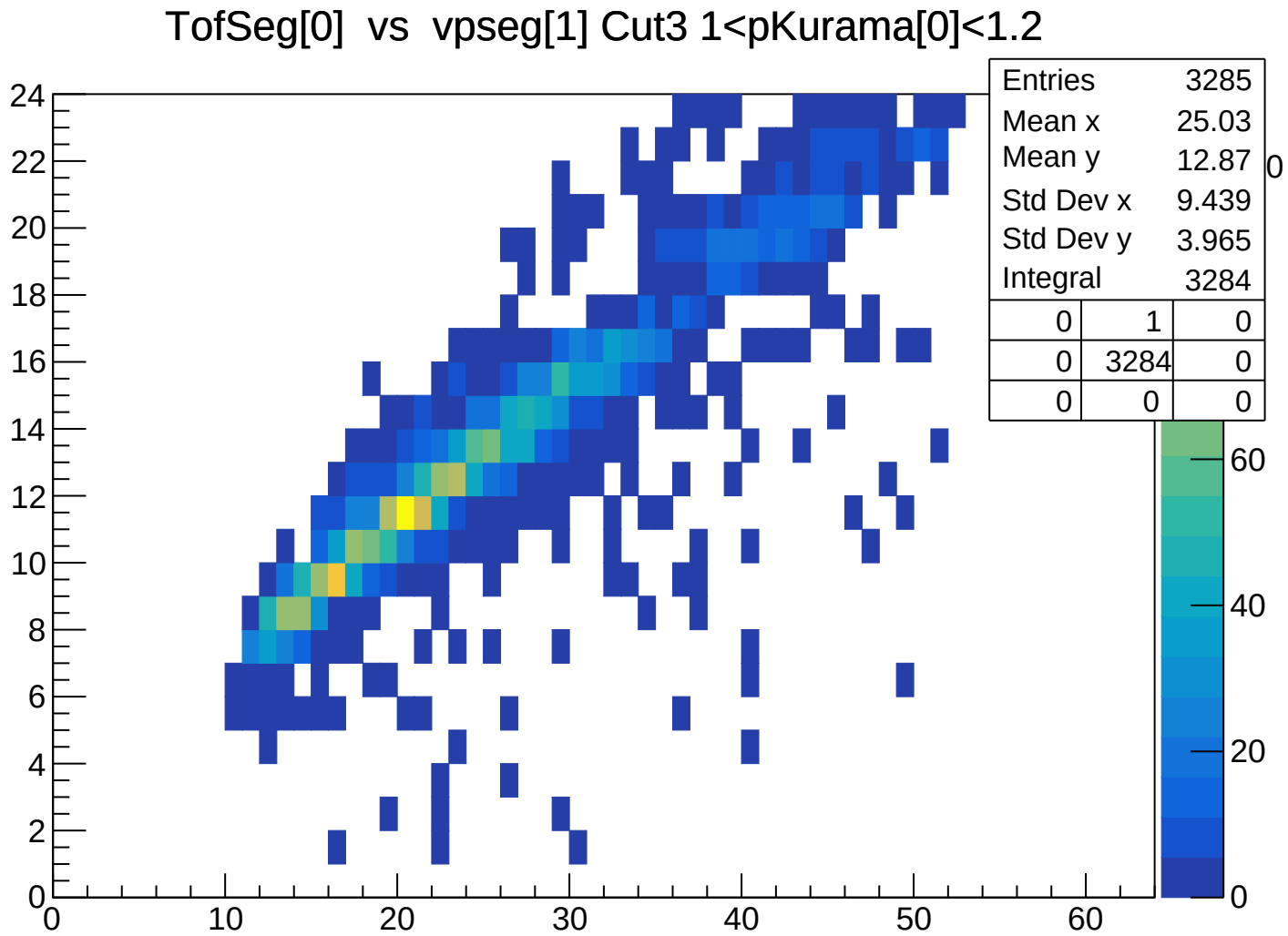

vpy[1] vs vpx[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x −34.19
Mean y −13.84
Std Dev x 108.4
Std Dev y 97.62
Integral 4436
0 0 0
0 4436 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
5
4
3
2
1
0


TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 27.53
Mean y 13
Std Dev x 10.34
Std Dev y 4.362
Integral 4436
0 0 0
0 4436 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
10
20
30
40
50


tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 27.53
Mean y 12.24
Std Dev x 10.34
Std Dev y 4.358
Integral 4436
0 0 0
0 4436 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
10
20
30
40
50


pKurama vs m2 Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x 0.5659
Mean y 1.084
Std Dev x 0.4042
Std Dev y 0.05647
Integral 3150
0 0 0
46 3150 89
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] vs vpx[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x −60.45
Mean y −14.97
Std Dev x 99.01
Std Dev y 95.57
Integral 3285
0 0 0
0 3285 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
5
4
3
2
1
0


TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x 25.03
Mean y 12.87
Std Dev x 9.439
Std Dev y 3.965
Integral 3284
0 1 0
0 3284 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
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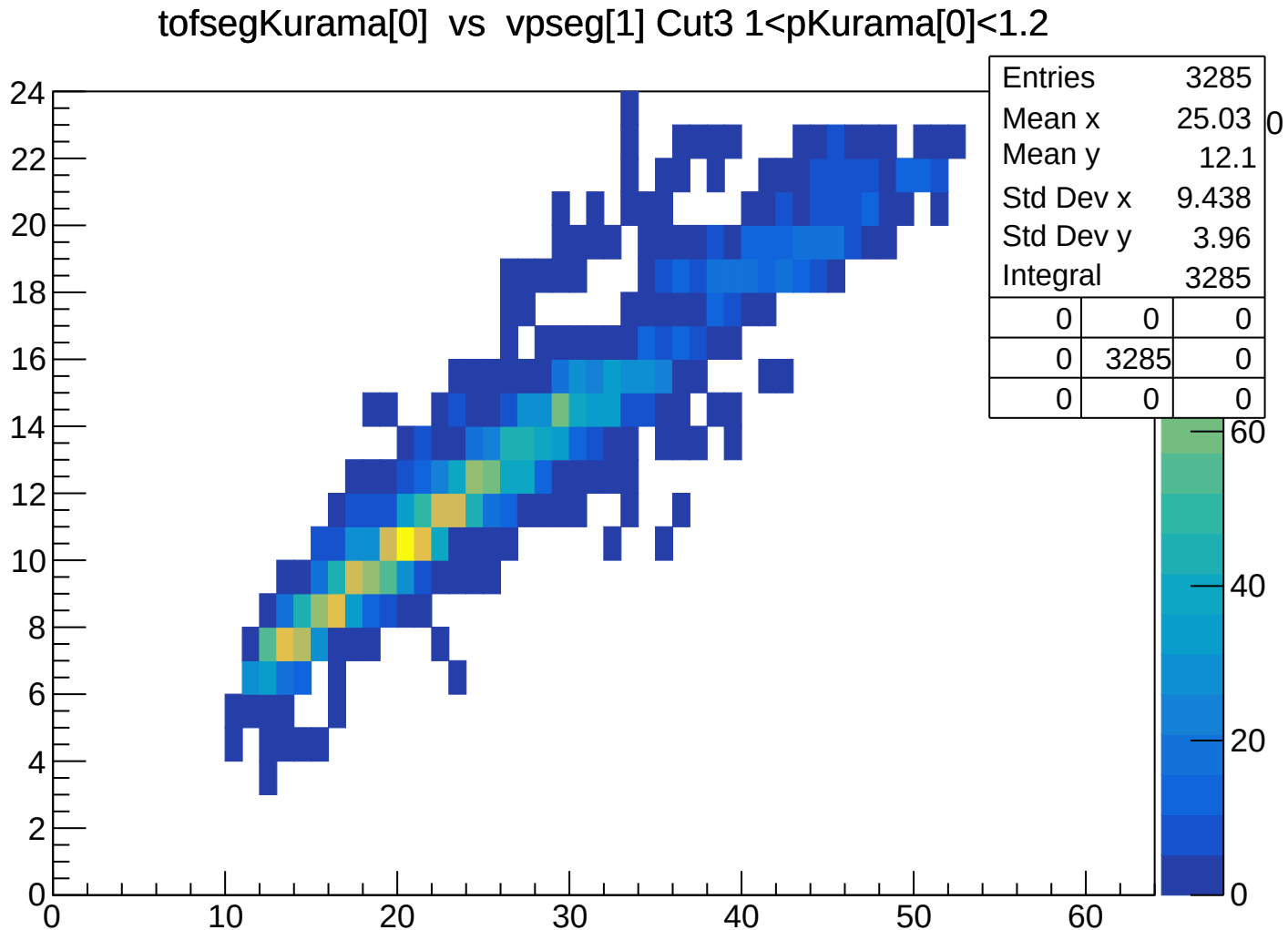
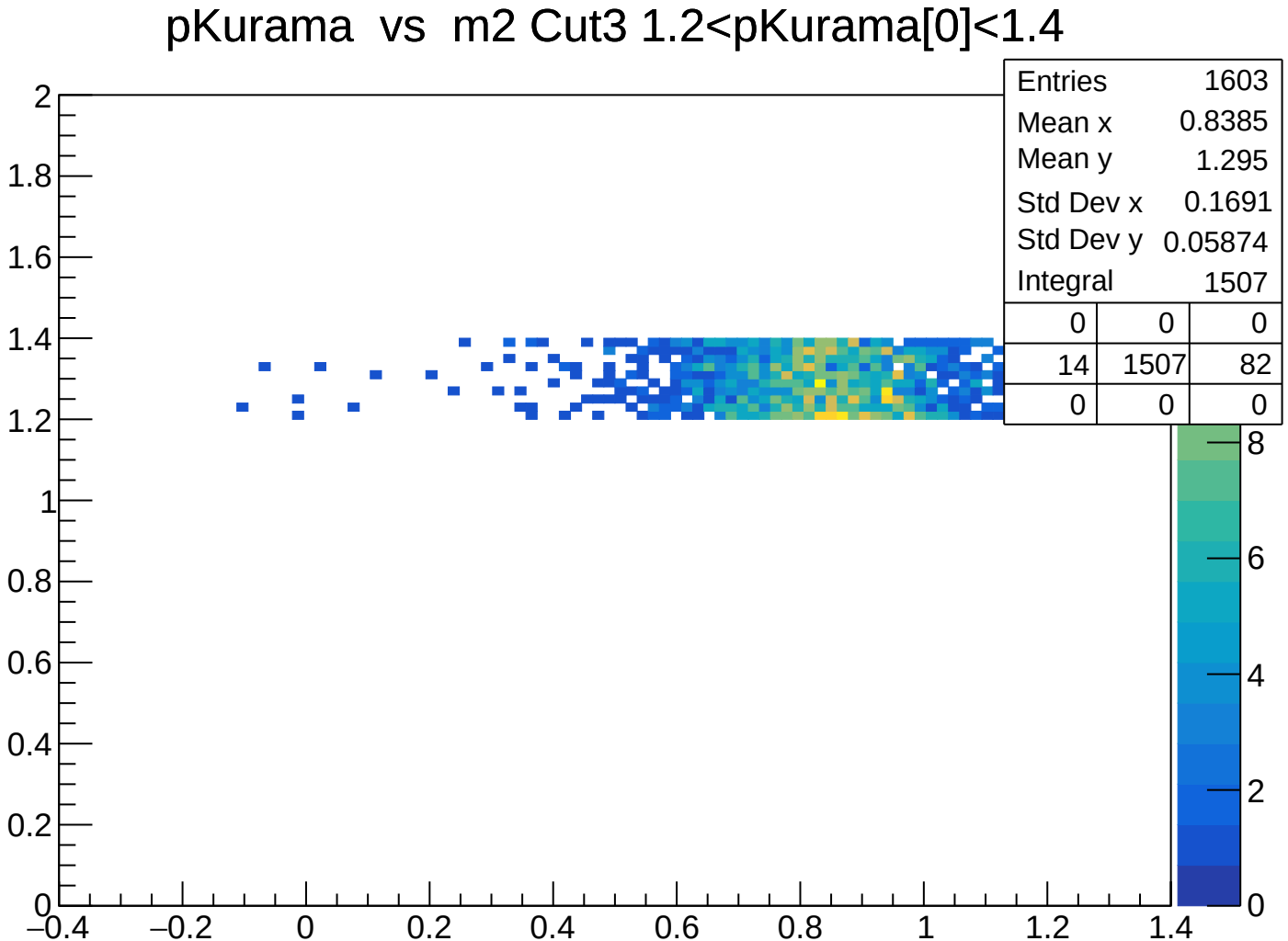
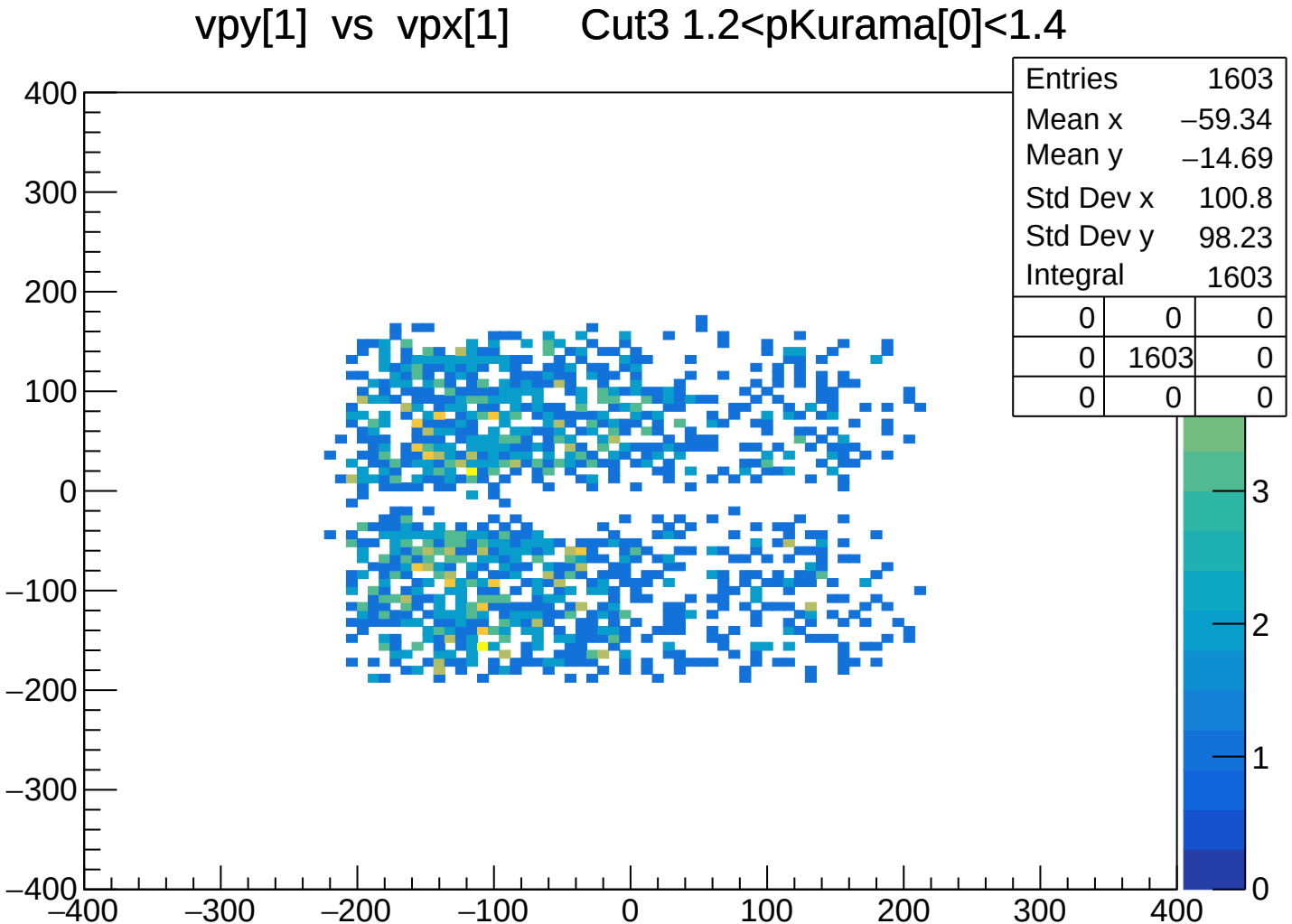
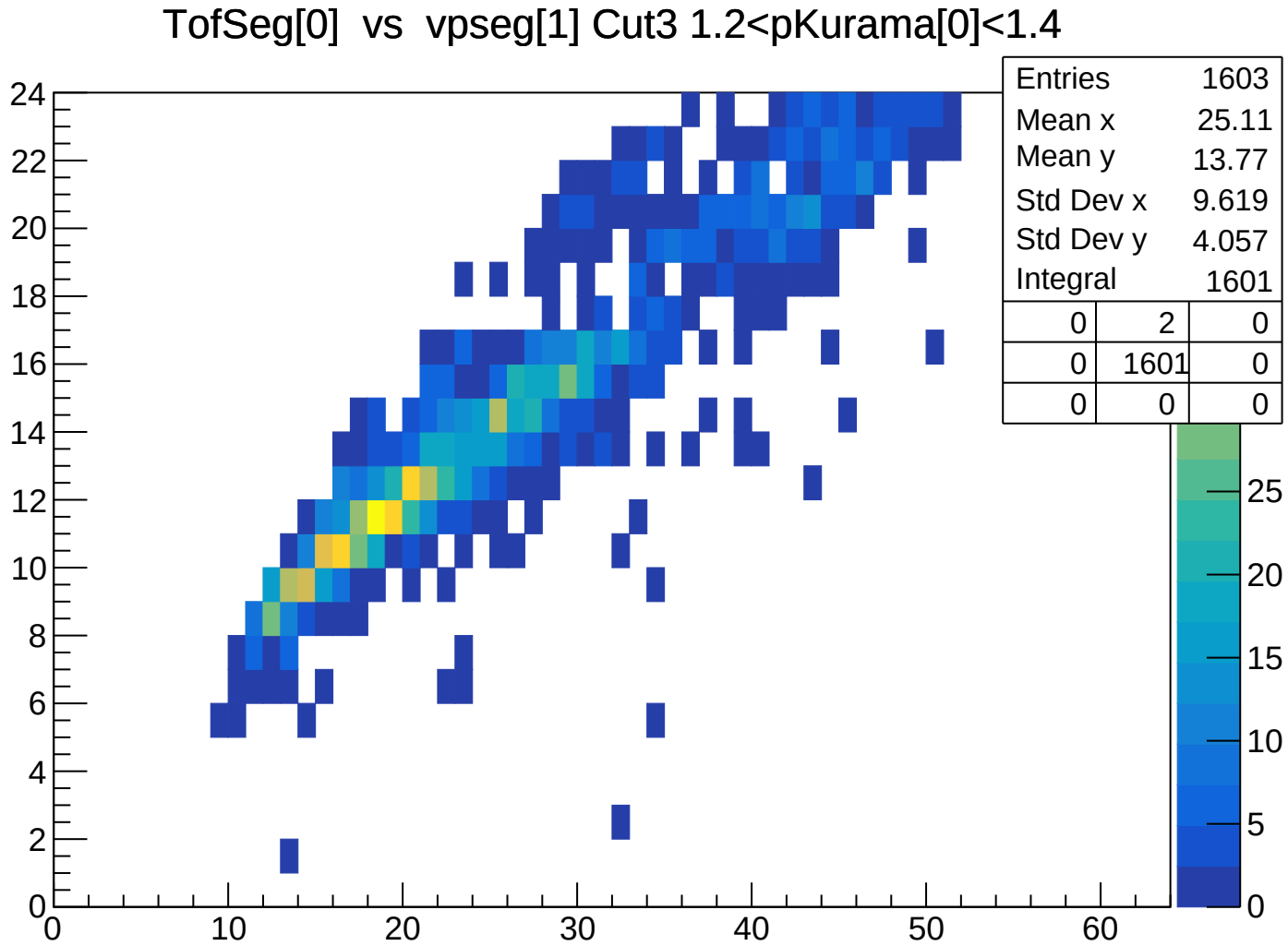
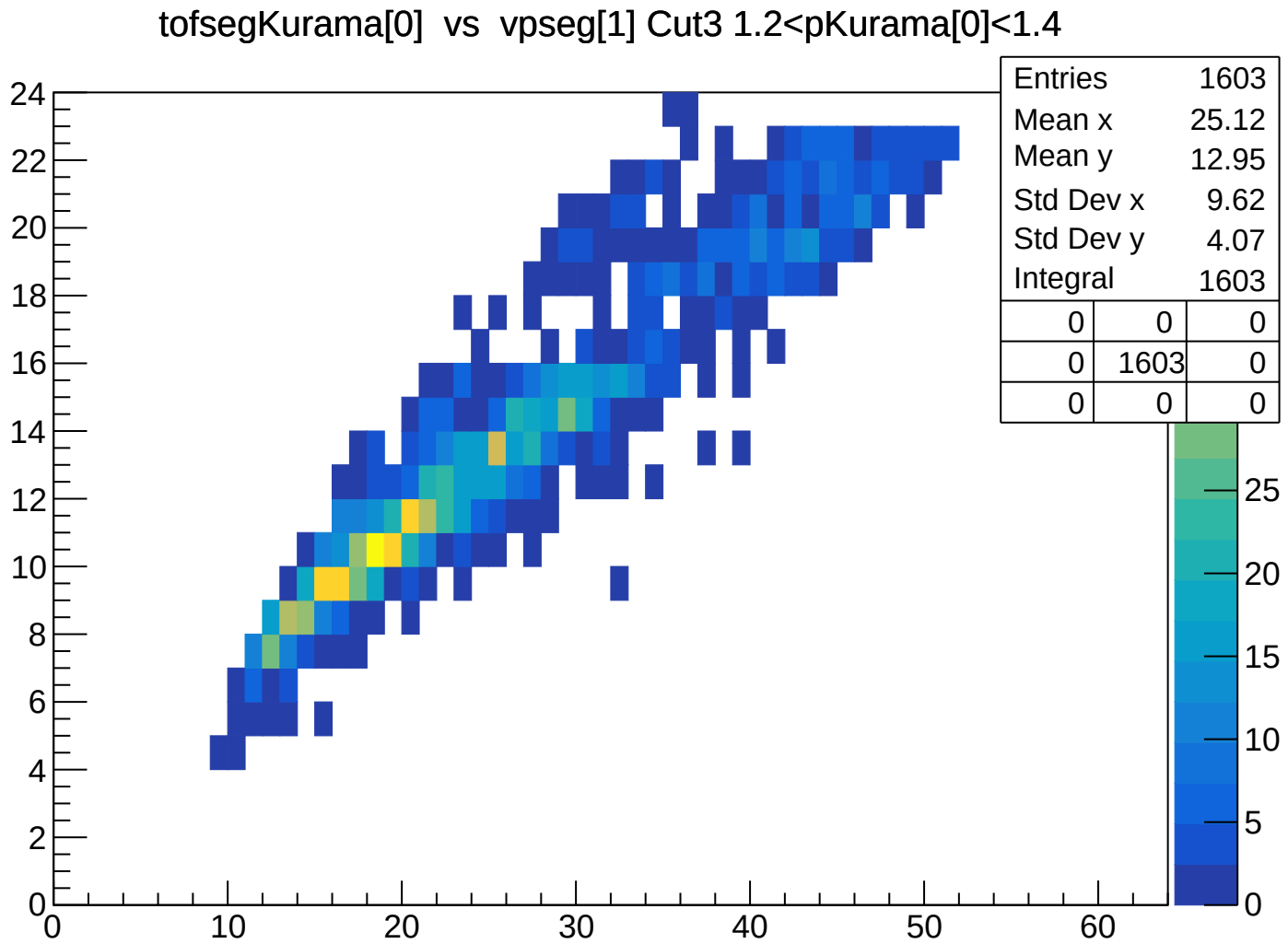
30
40
50
60
0
20
40
60

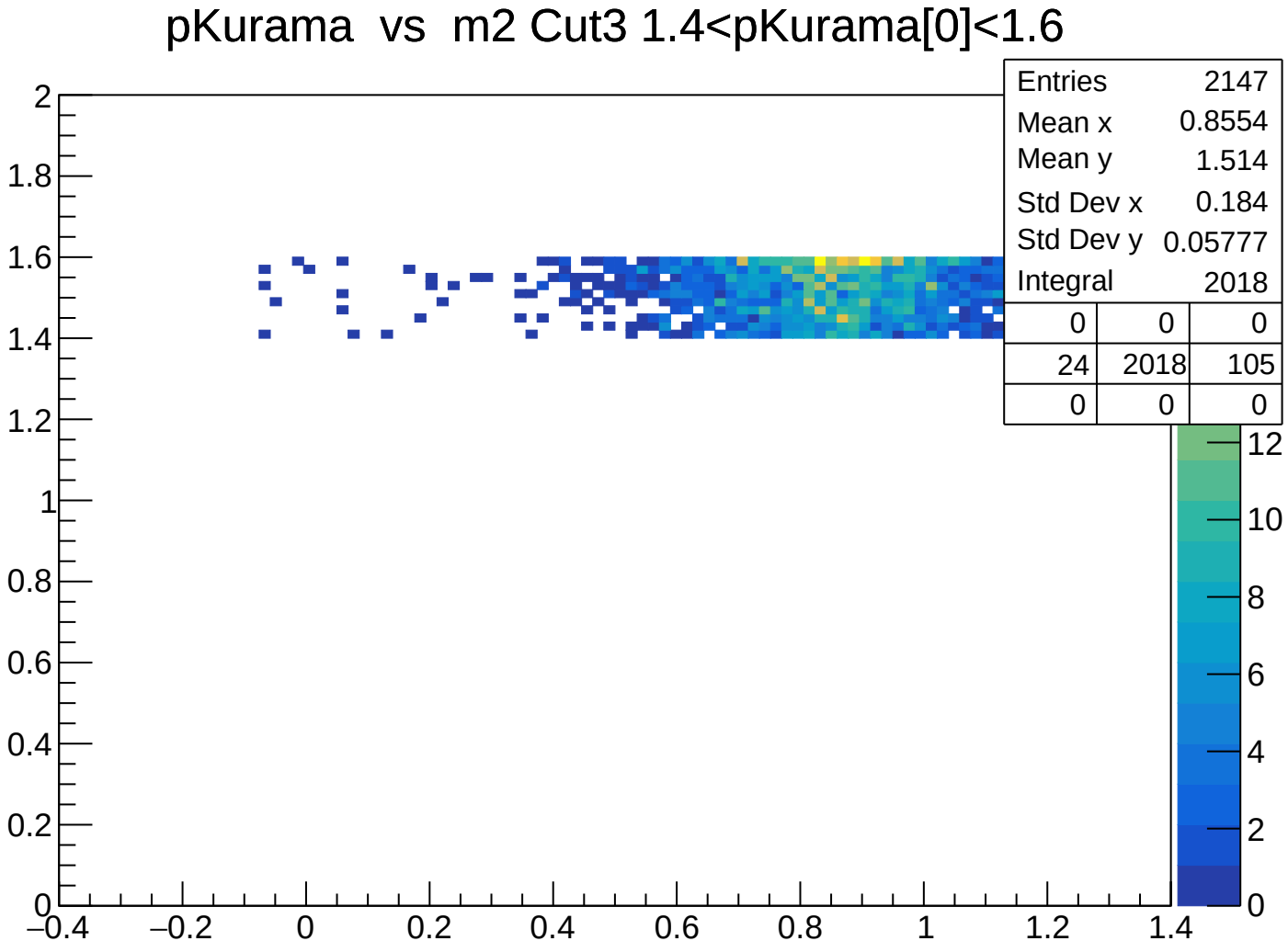

tofsegKurama[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x 25.03
Mean y 12.1
Std Dev x 9.438
Std Dev y 3.96
Integral 3285
0 0 0
0 3285 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60

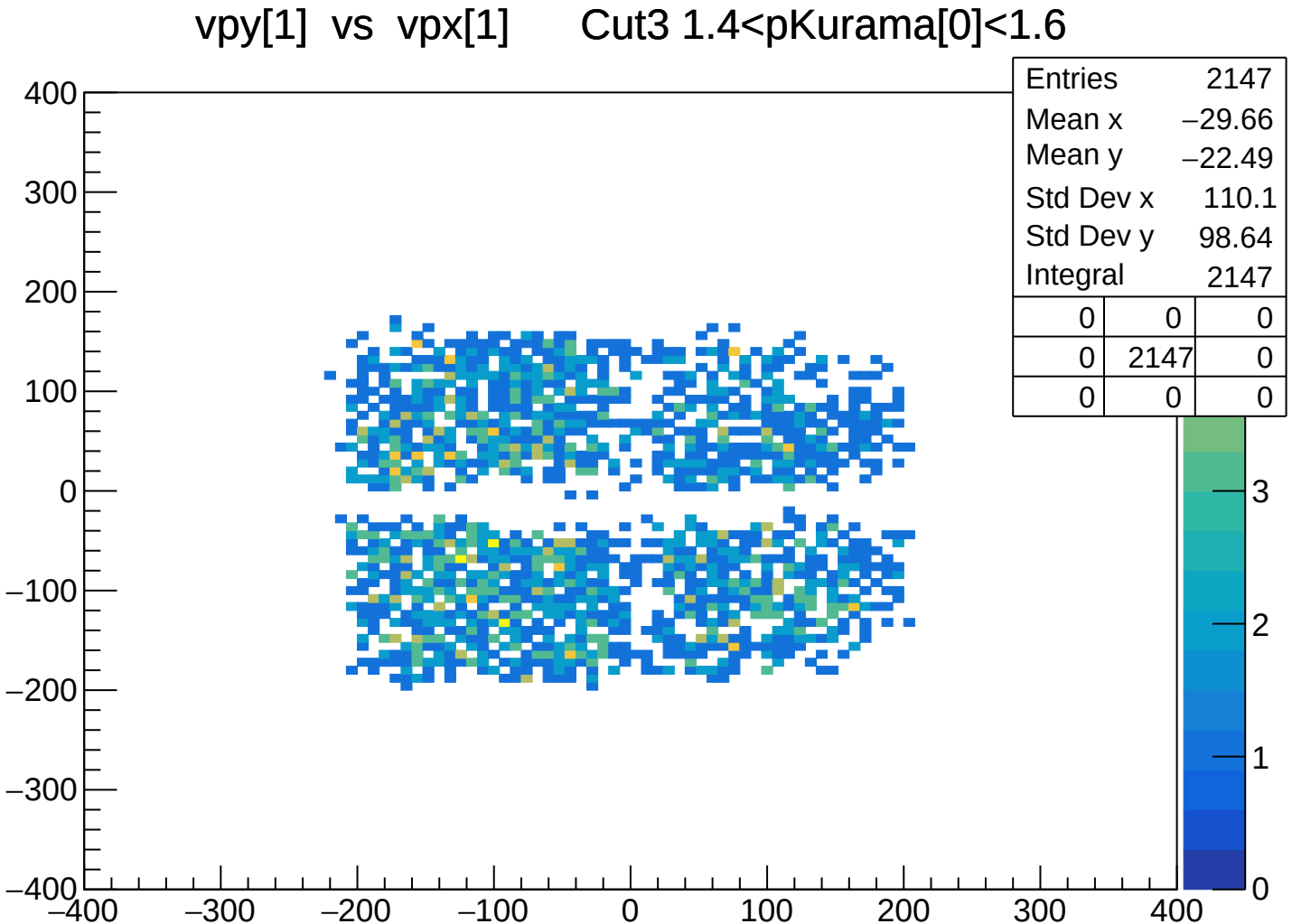

pKurama vs m2 Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 0.8385
Mean y 1.295
Std Dev x 0.1691
Std Dev y 0.05874
Integral 1507
0 0 0
14 1507 82
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
8
6
4
2
0

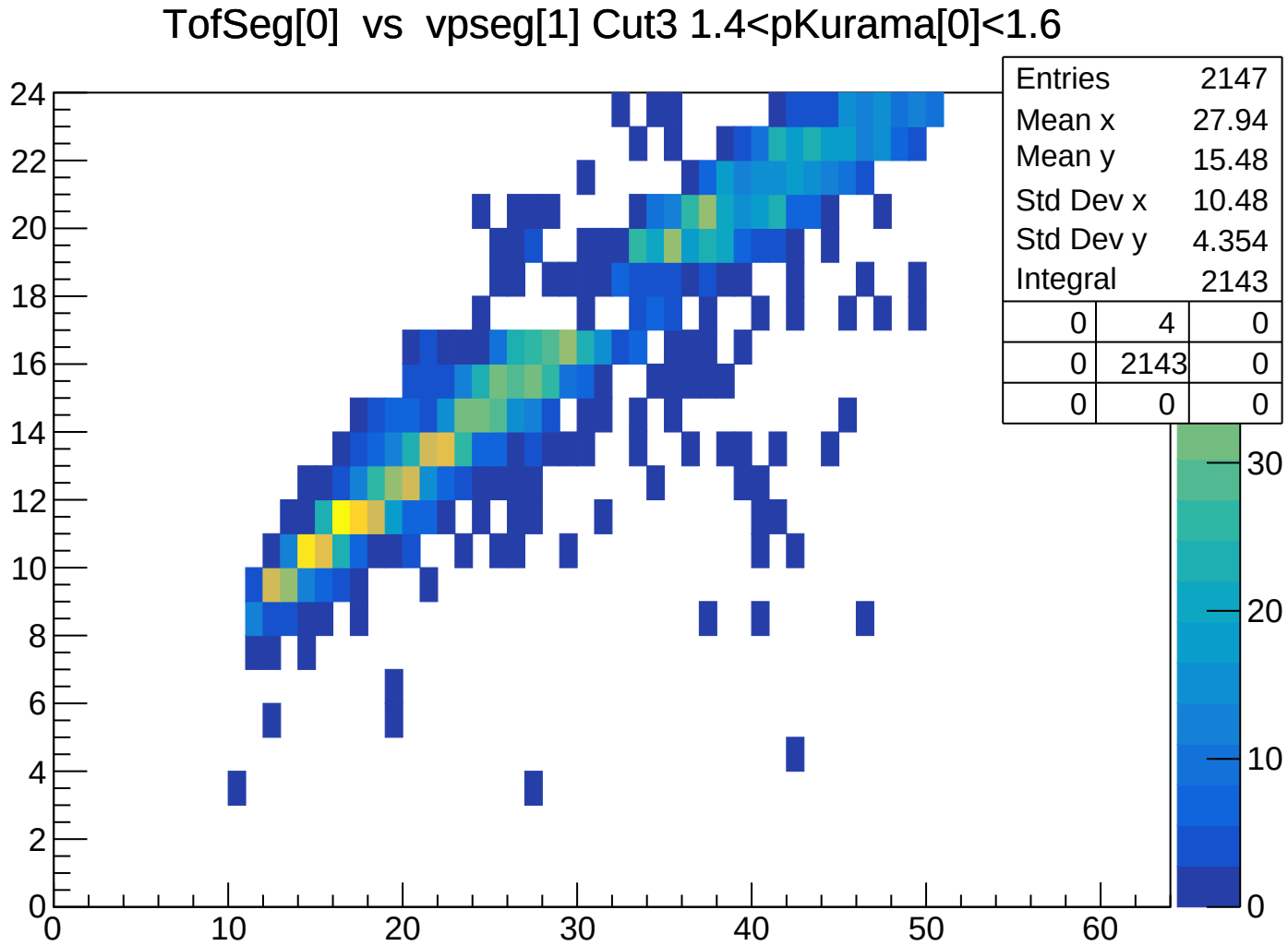

vpy[1] vs vpx[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x −59.34
Mean y −14.69
Std Dev x 100.8
Std Dev y 98.23
Integral 1603
0 0 0
0 1603 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
3
2
1
0

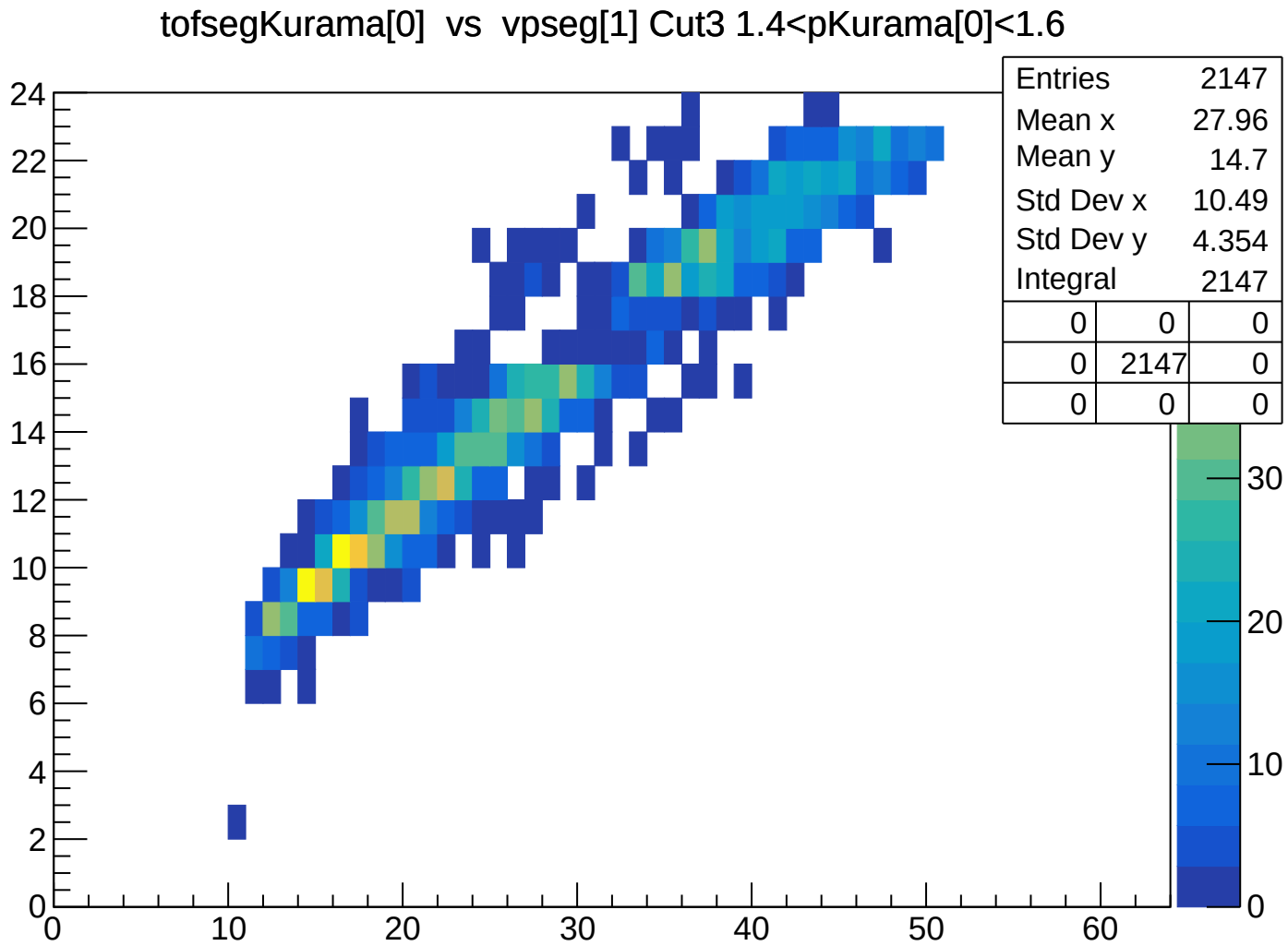

TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 25.11
Mean y 13.77
Std Dev x 9.619
Std Dev y 4.057
Integral 1601
0 2 0
0 1601 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60
0 5 10 15 20 25

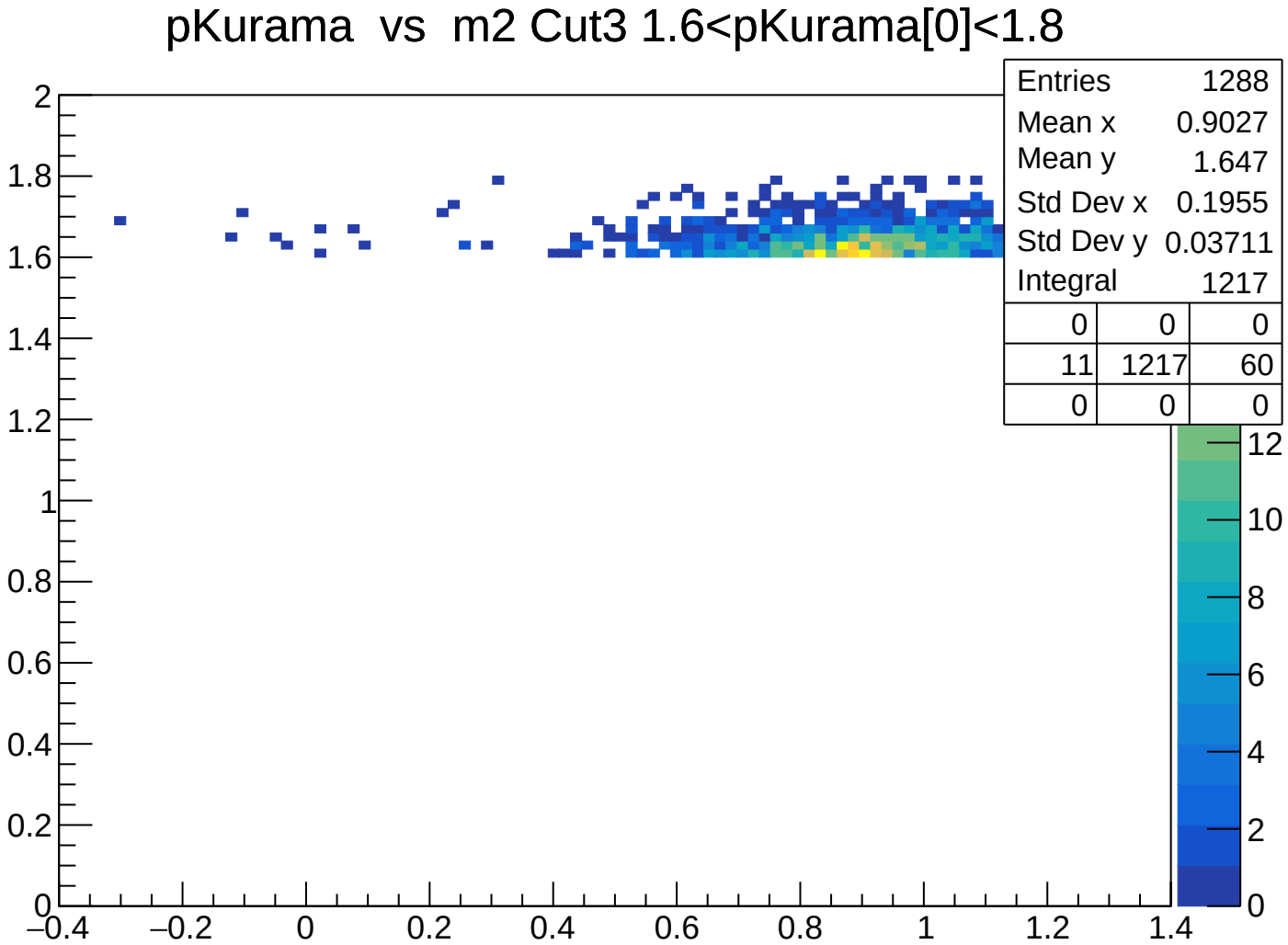

tofsegKurama[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 25.12
Mean y 12.95
Std Dev x 9.62
Std Dev y 4.07
Integral 1603
0 0 0
0 1603 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20
25

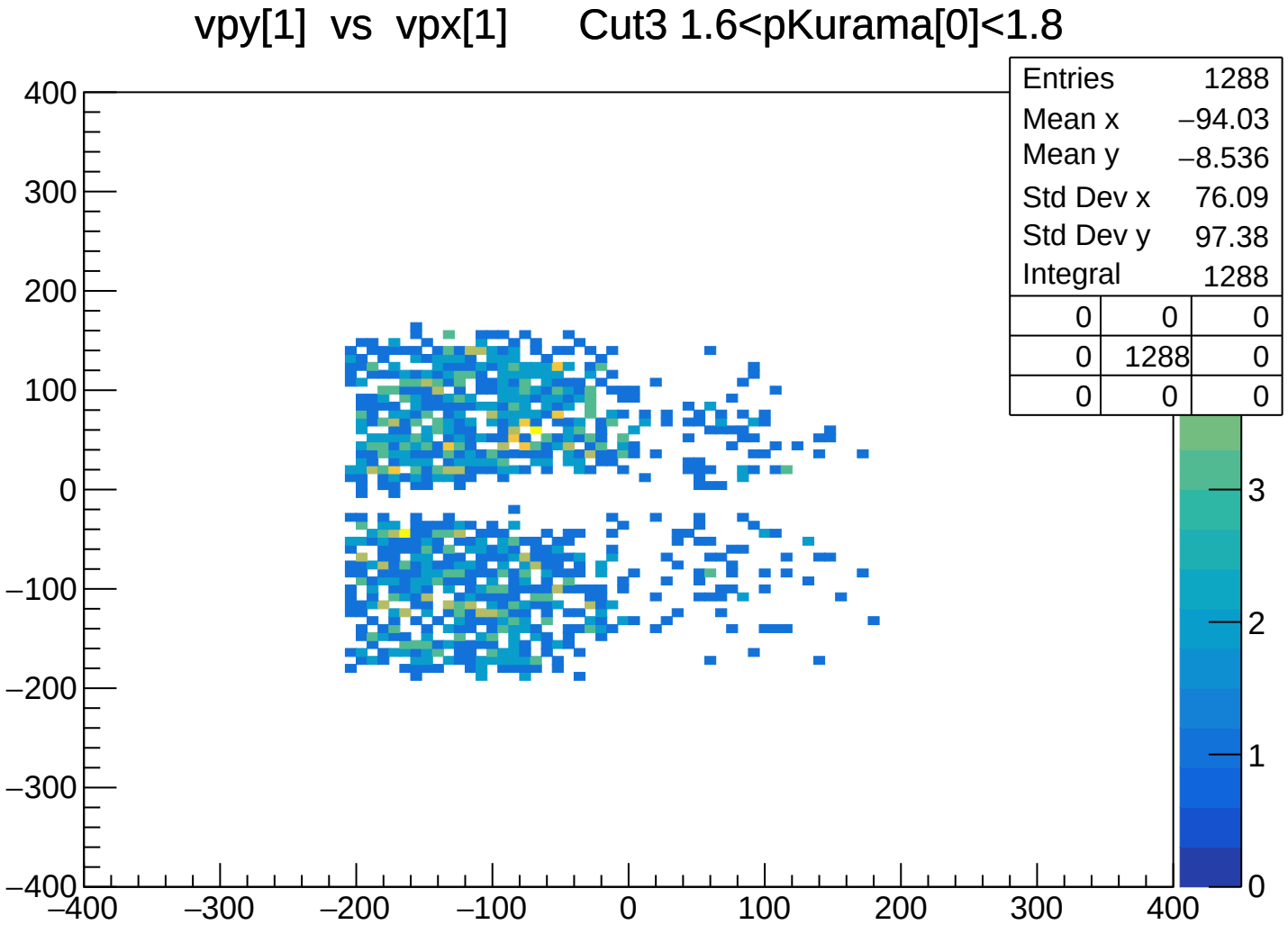

pKurama vs m2 Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 0.8554
Mean y 1.514
Std Dev x 0.184
Std Dev y 0.05777
Integral 2018
0 0 0
24 2018 105
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
12
10
8
6
4
2
0

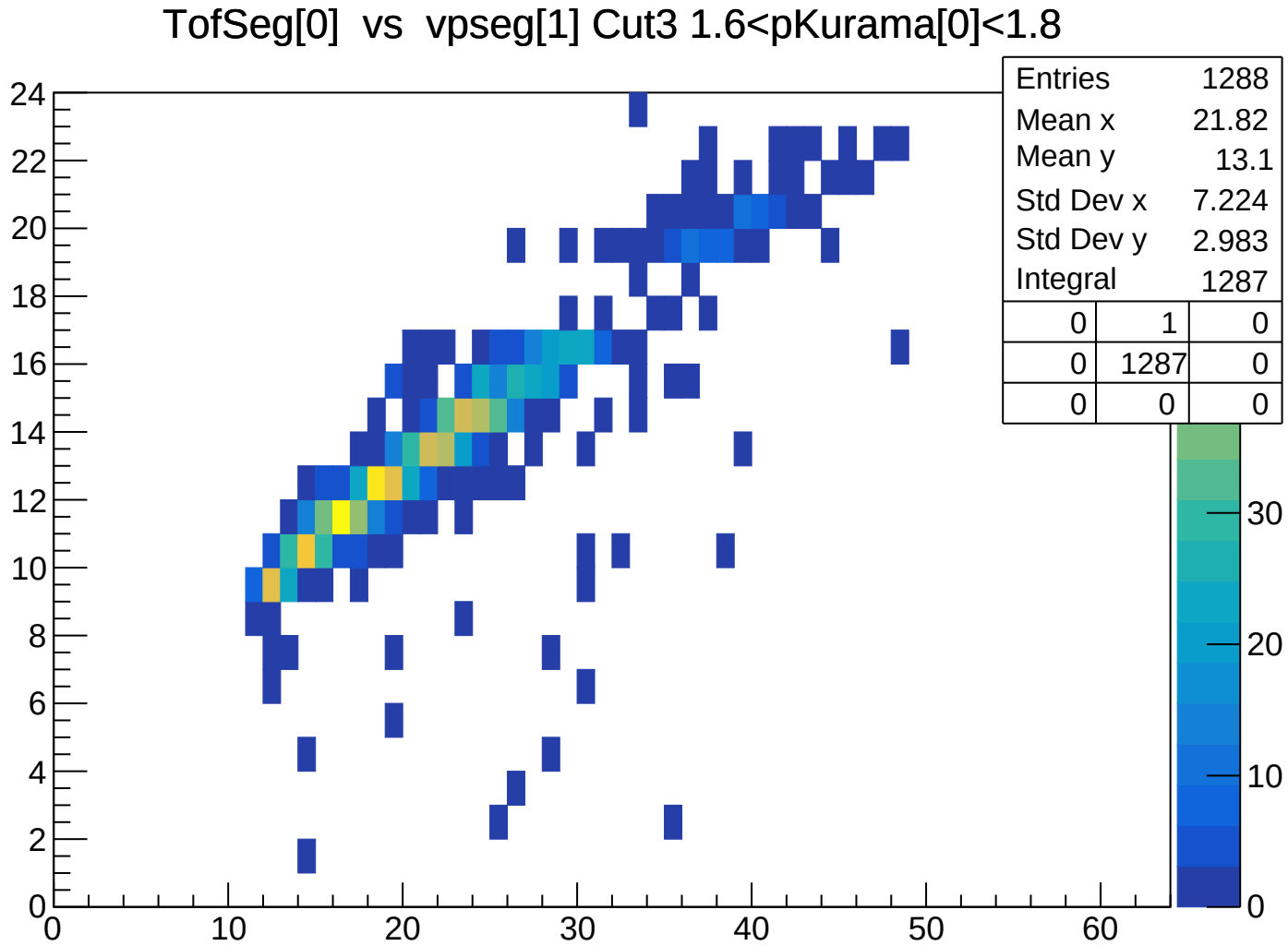

vpy[1] vs vpx[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x −29.66
Mean y −22.49
Std Dev x 110.1
Std Dev y 98.64
Integral 2147
0 0 0
0 2147 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
3
2
1
0

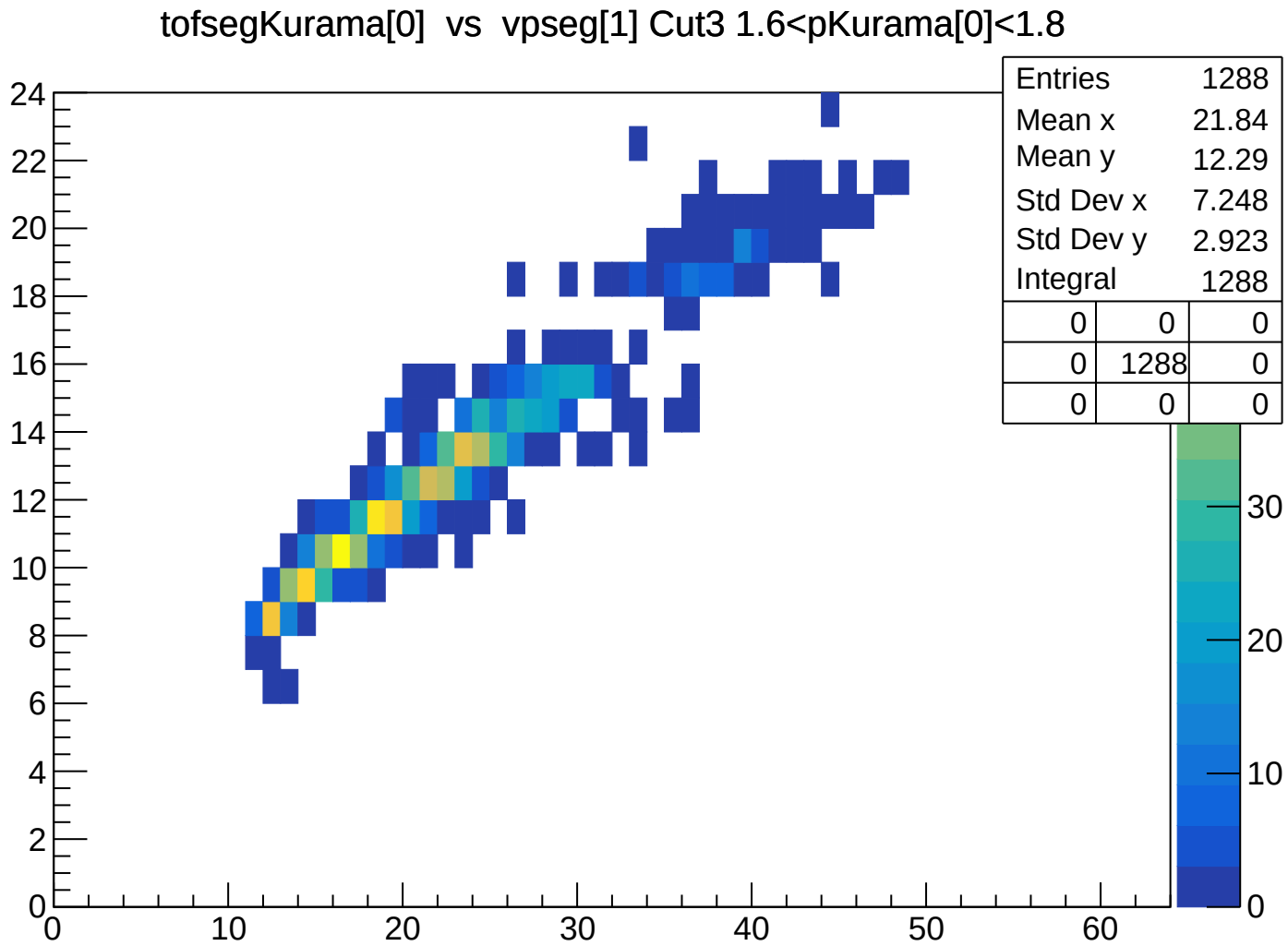

TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 27.94
Mean y 15.48
Std Dev x 10.48
Std Dev y 4.354
Integral 2143
0 4 0
0 2143 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

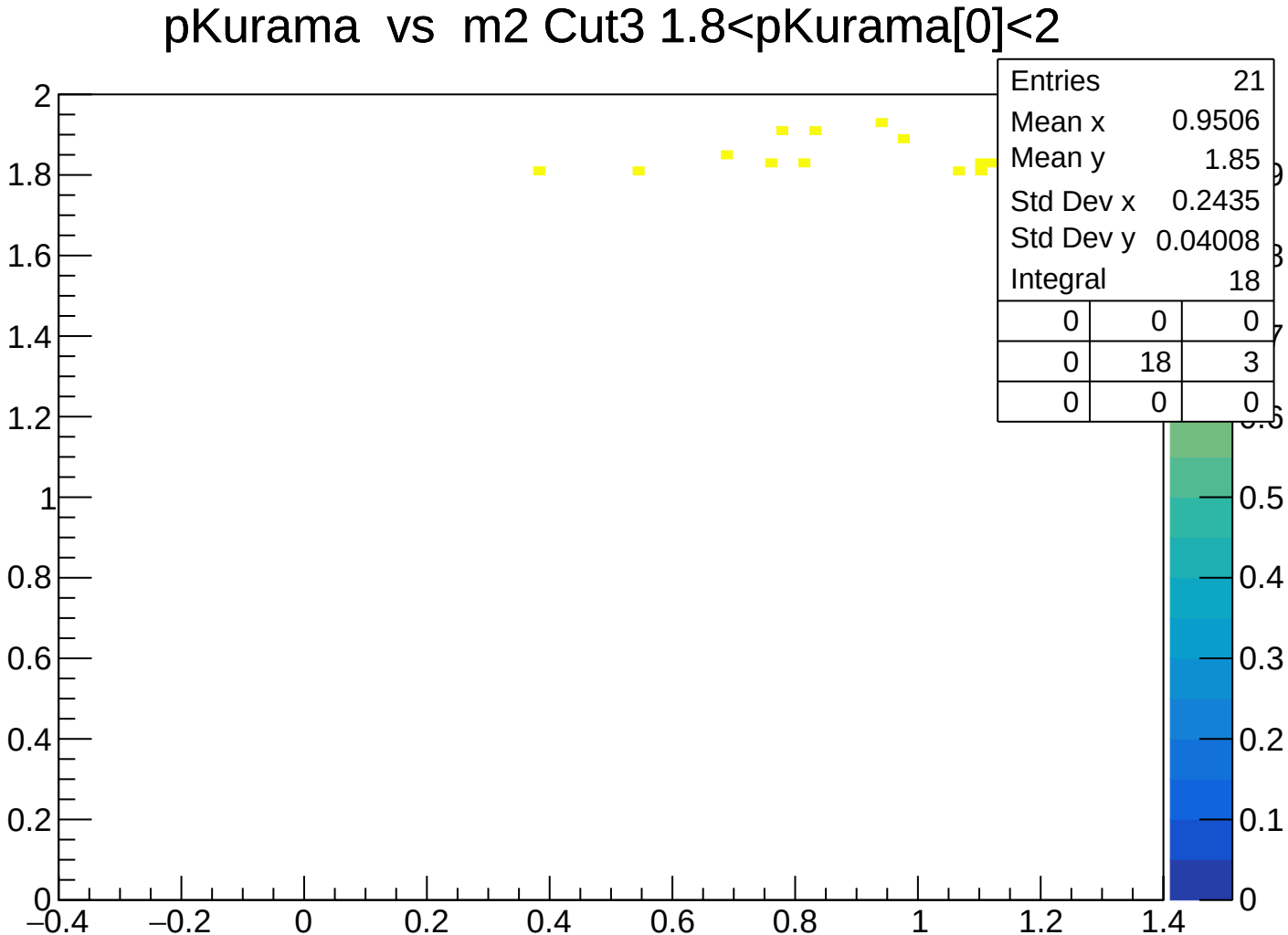

tofsegKurama[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 27.96
Mean y 14.7
Std Dev x 10.49
Std Dev y 4.354
Integral 2147
0 0 0
0 2147 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

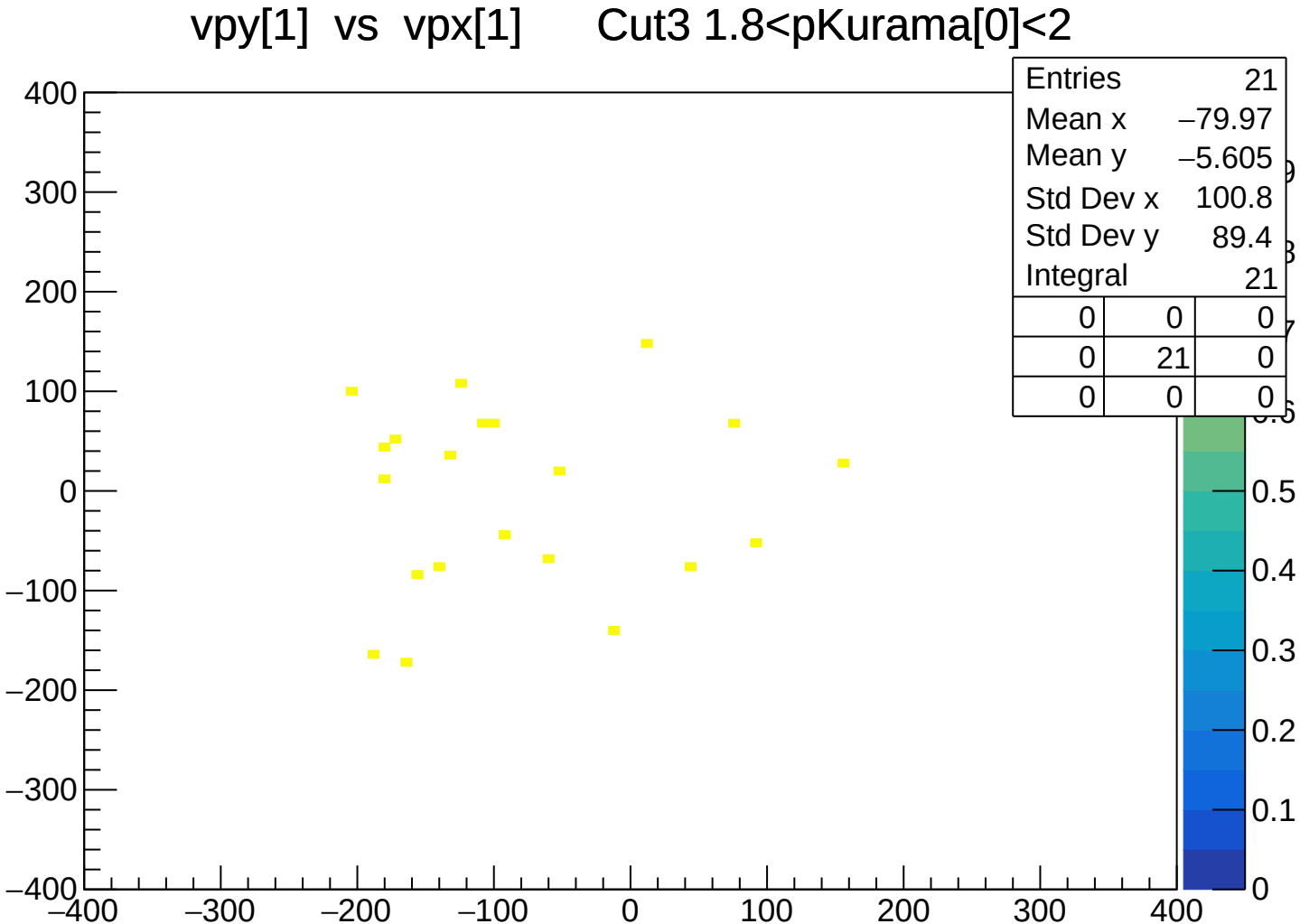

pKurama vs m2 Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 0.9027
Mean y 1.647
Std Dev x 0.1955
Std Dev y 0.03711
Integral 1217
0 0 0
11 1217 60
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
12
10
8
6
4
2
0

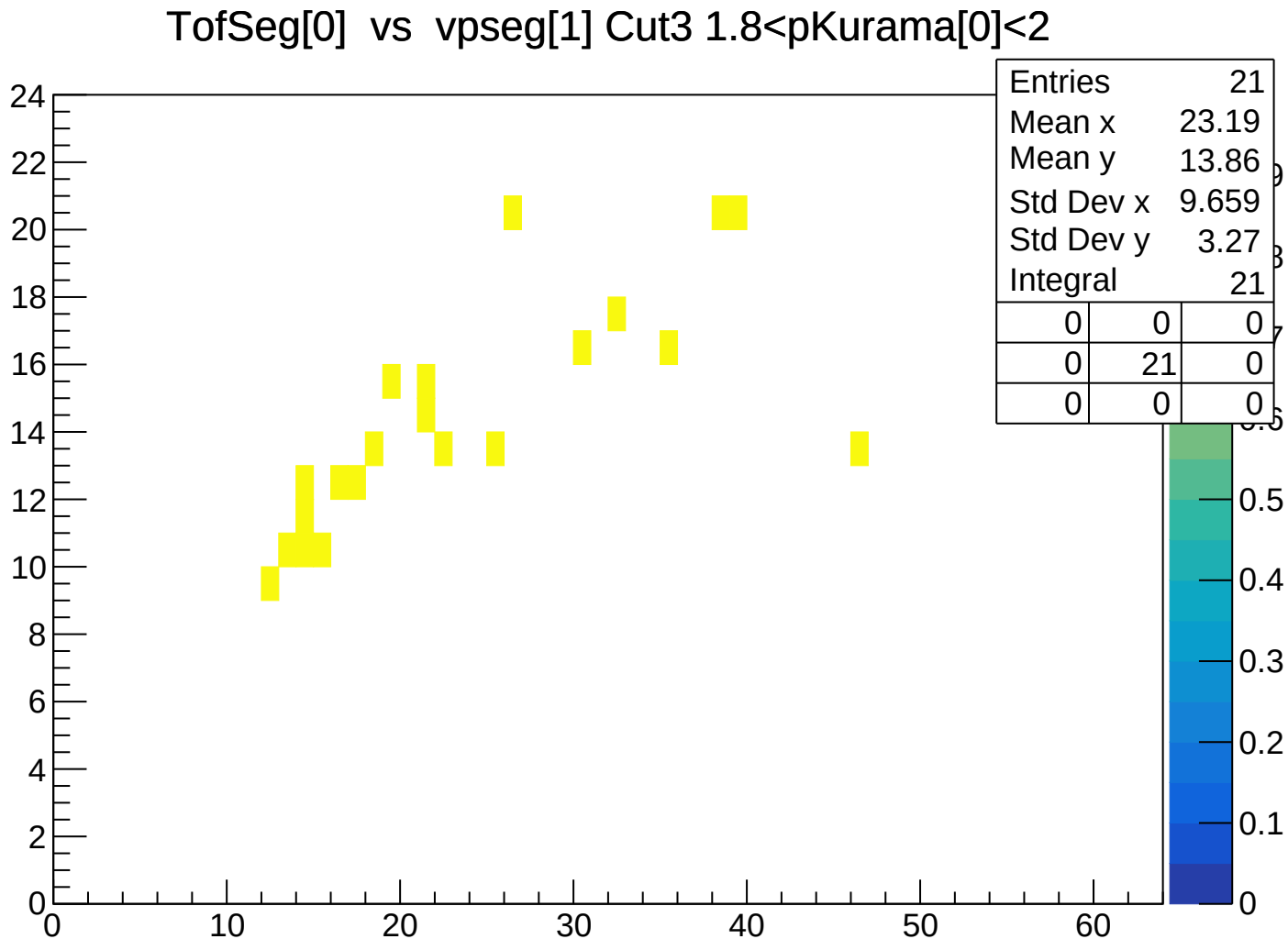

vpy[1] vs vpx[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x −94.03
Mean y −8.536
Std Dev x 76.09
Std Dev y 97.38
Integral 1288
0 0 0
0 1288 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
3
2
1
0

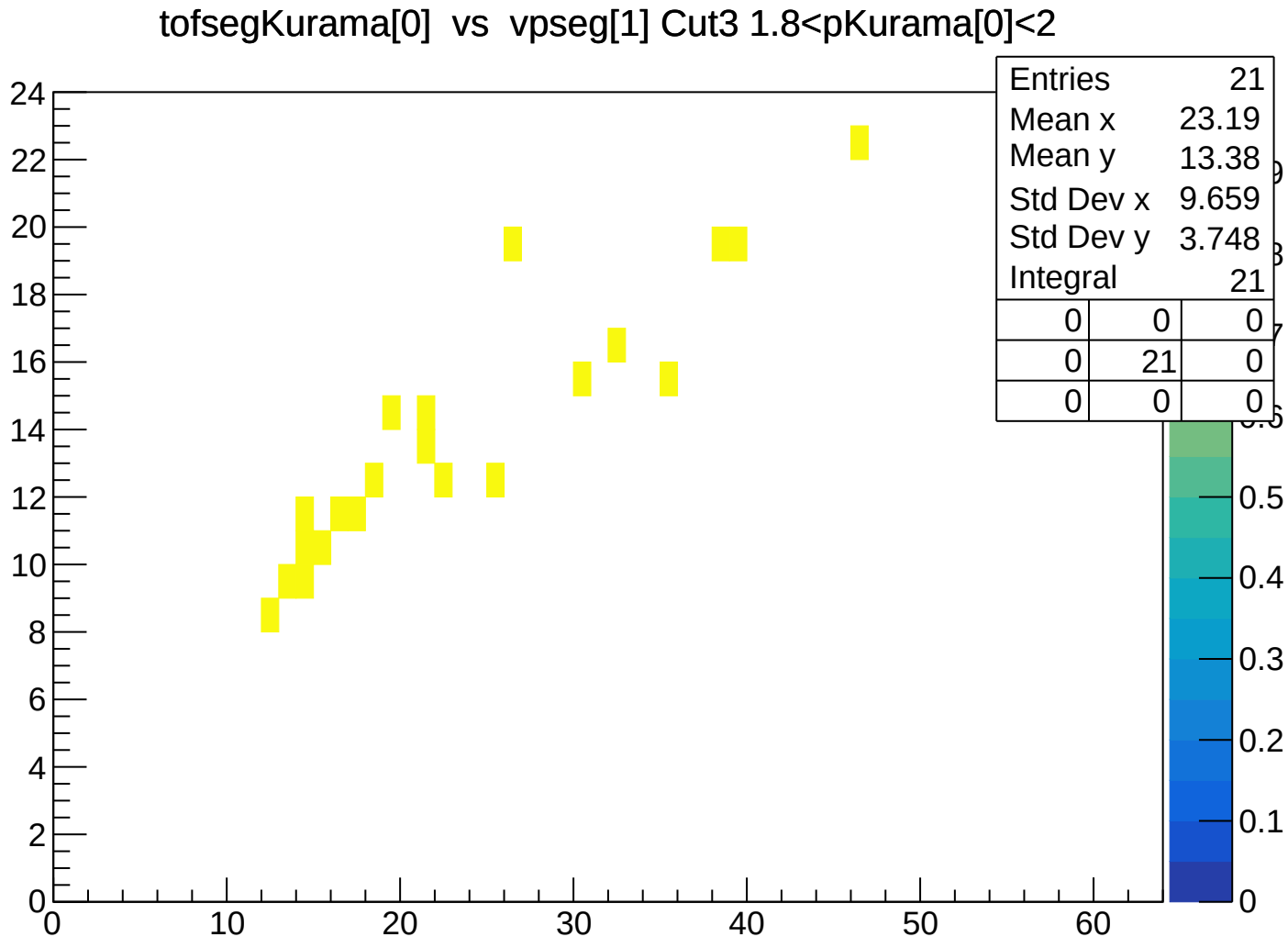

TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 21.82
Mean y 13.1
Std Dev x 7.224
Std Dev y 2.983
Integral 1287
0 1 0
0 1287 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30


tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 21.84
Mean y 12.29
Std Dev x 7.248
Std Dev y 2.923
Integral 1288
0 0 0
0 1288 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
10
20
30

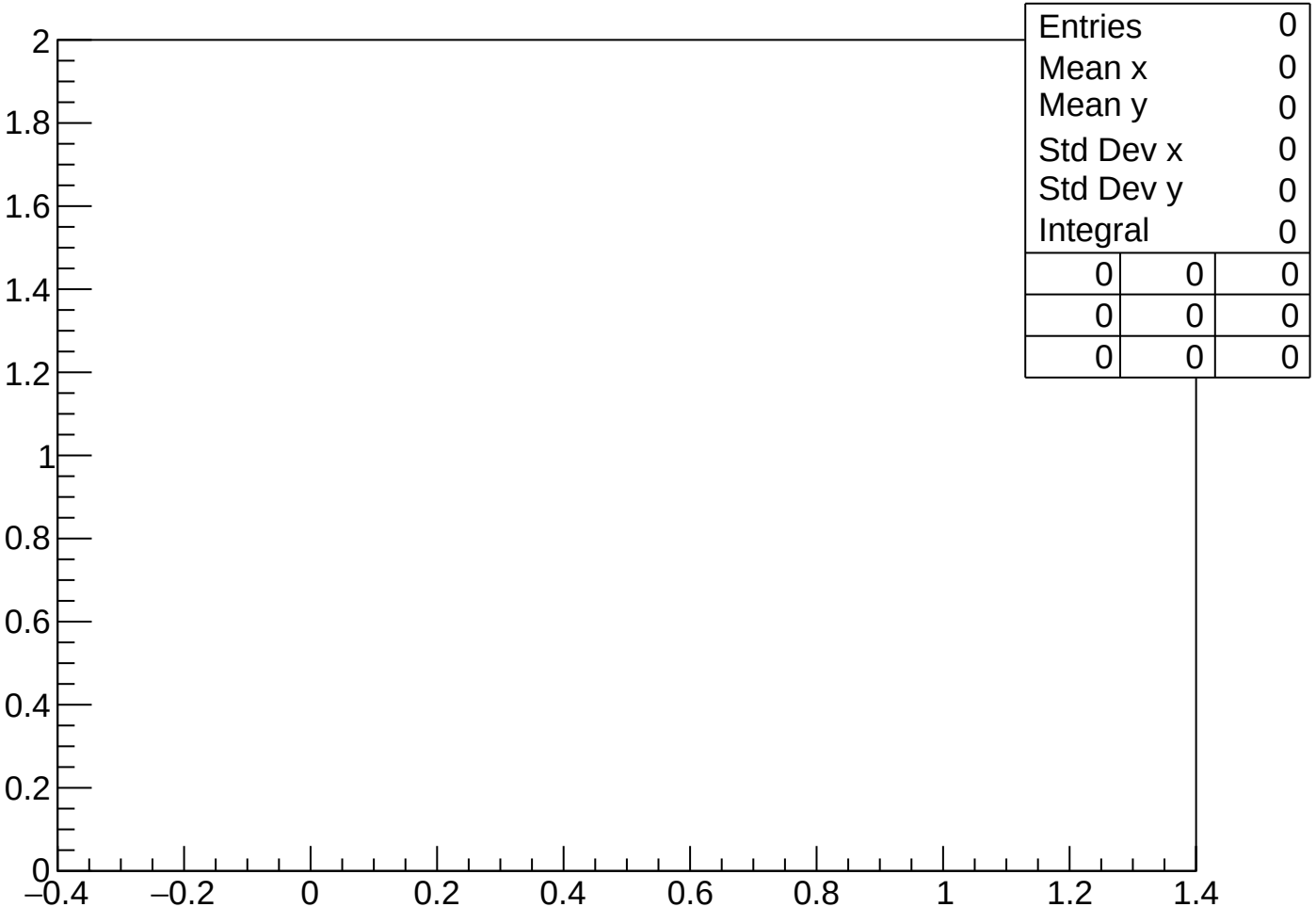

pKurama vs m2 Cut3 1.8<pKurama[0]<2
Entries 21
Mean x 0.9506
Mean y 1.85
Std Dev x 0.2435
Std Dev y 0.04008
Integral 18
0 0 0
0 18 3
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0

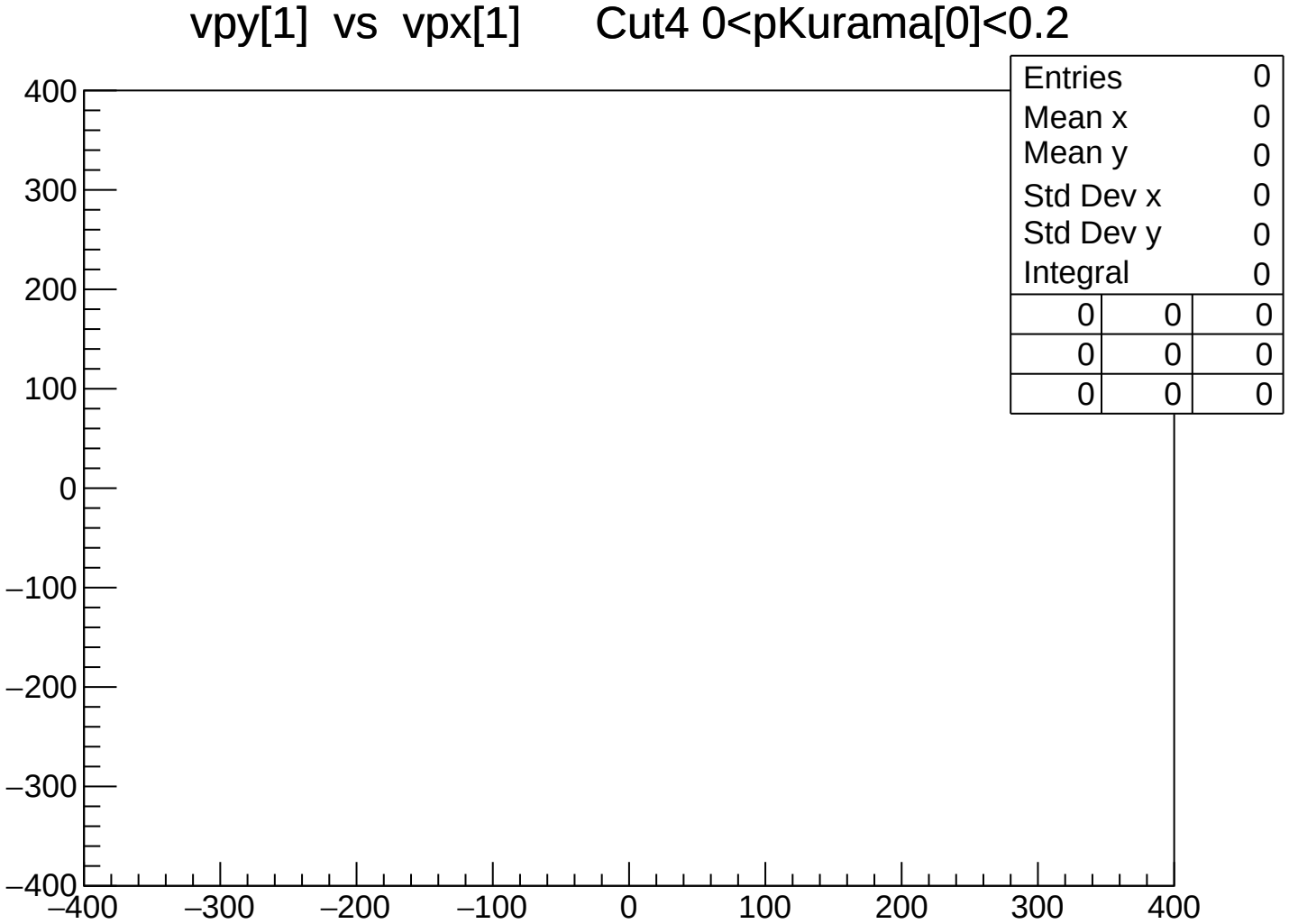

vpy[1] vs vpx[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x −79.97
Mean y −5.605
Std Dev x 100.8
Std Dev y 89.4
Integral 21
0 0 0
0 21 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
0.5
0.4
0.3
0.2
0.1
0

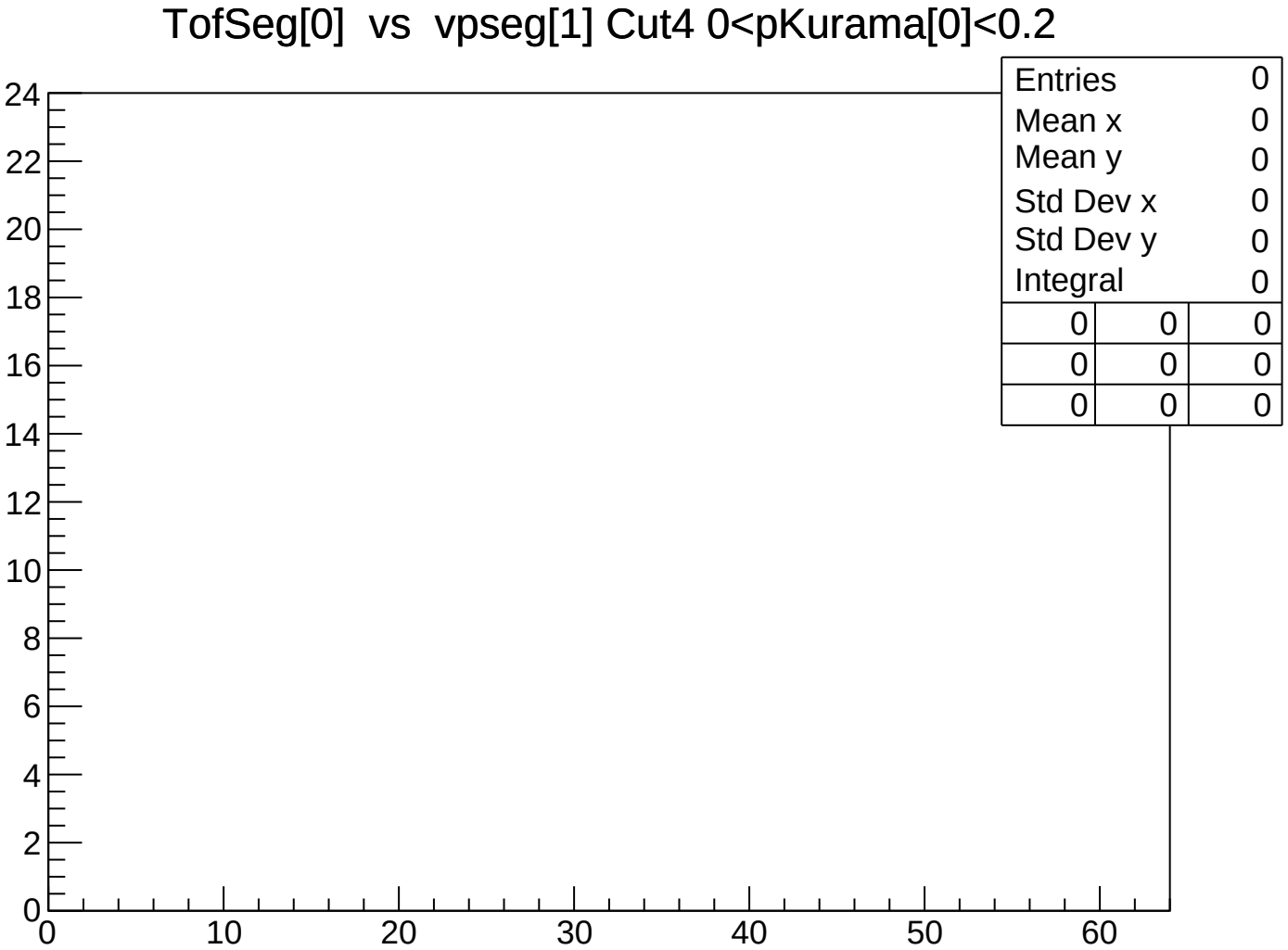

TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x 23.19
Mean y 13.86
Std Dev x 9.659
Std Dev y 3.27
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

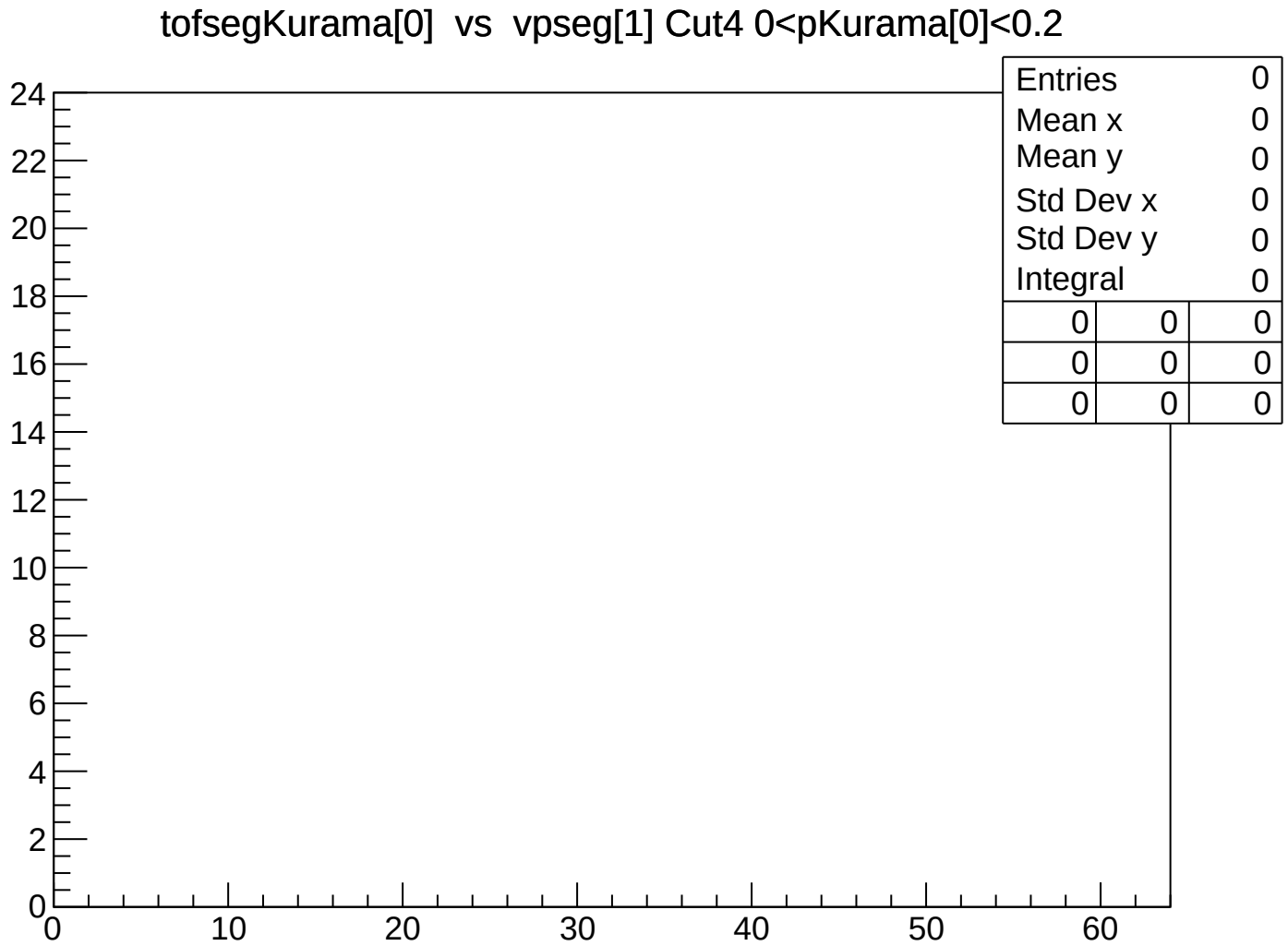

tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x 23.19
Mean y 13.38
Std Dev x 9.659
Std Dev y 3.748
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

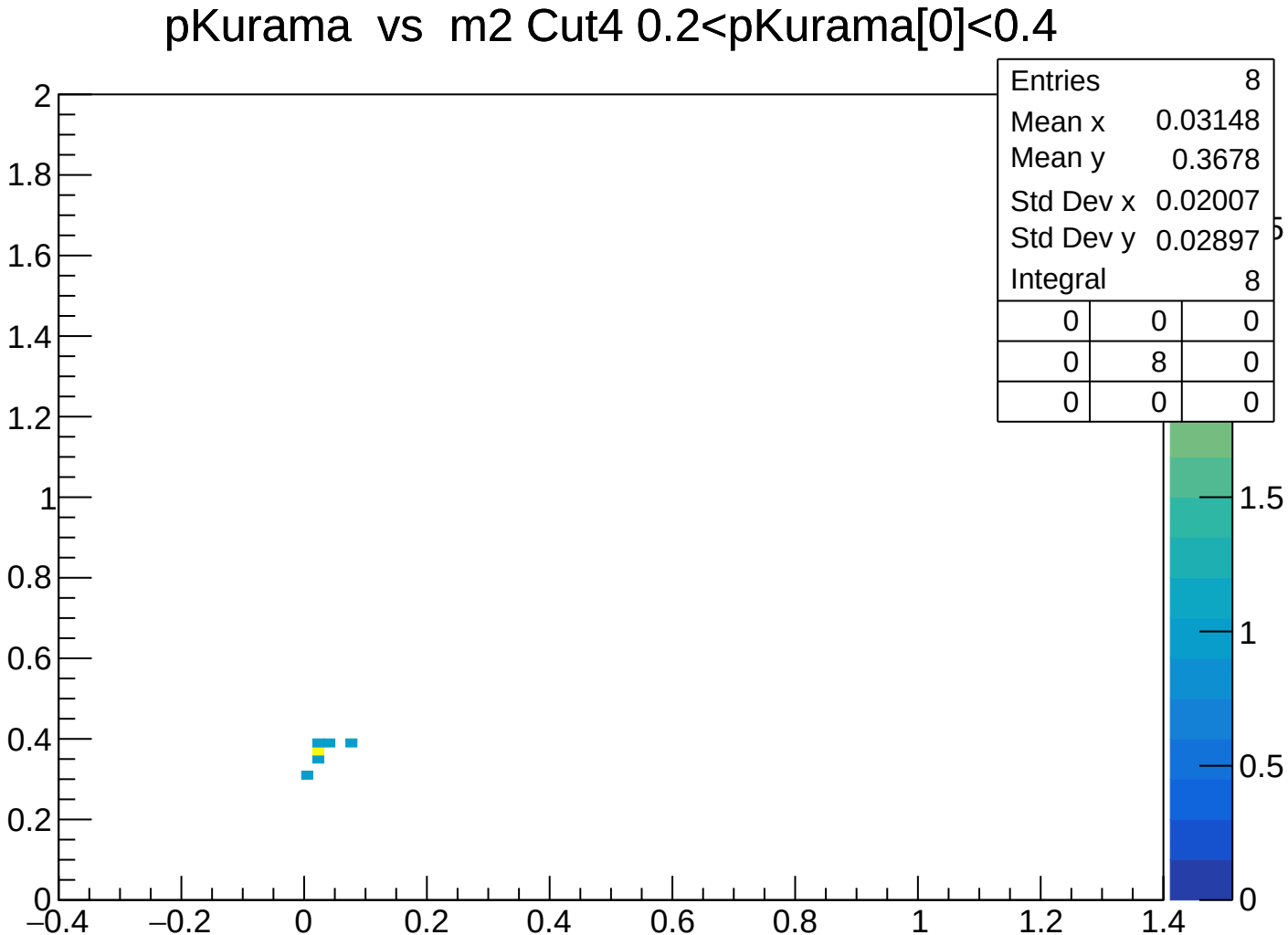
pKurama vs m2 Cut4 0<pKurama[0]<0.2

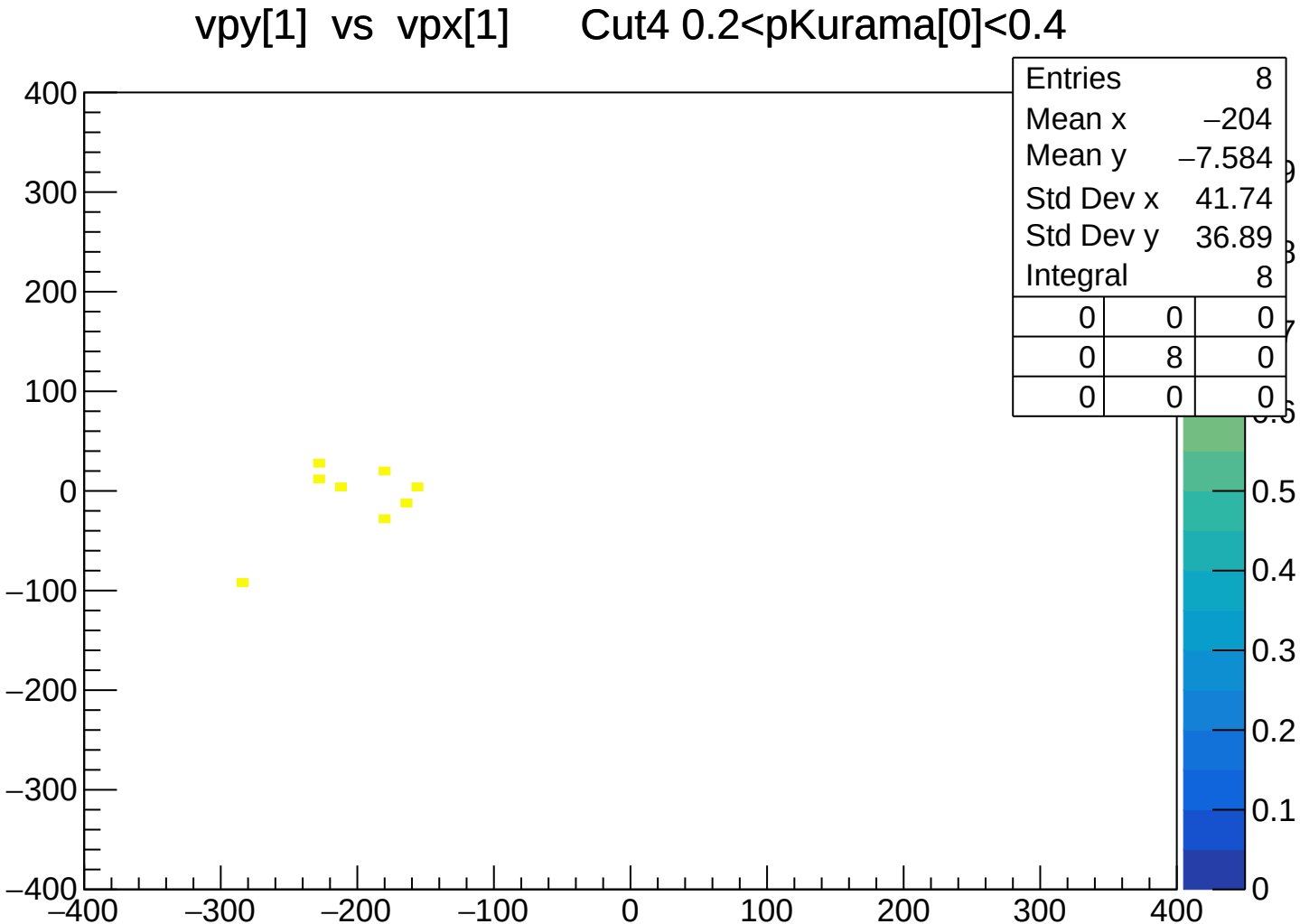


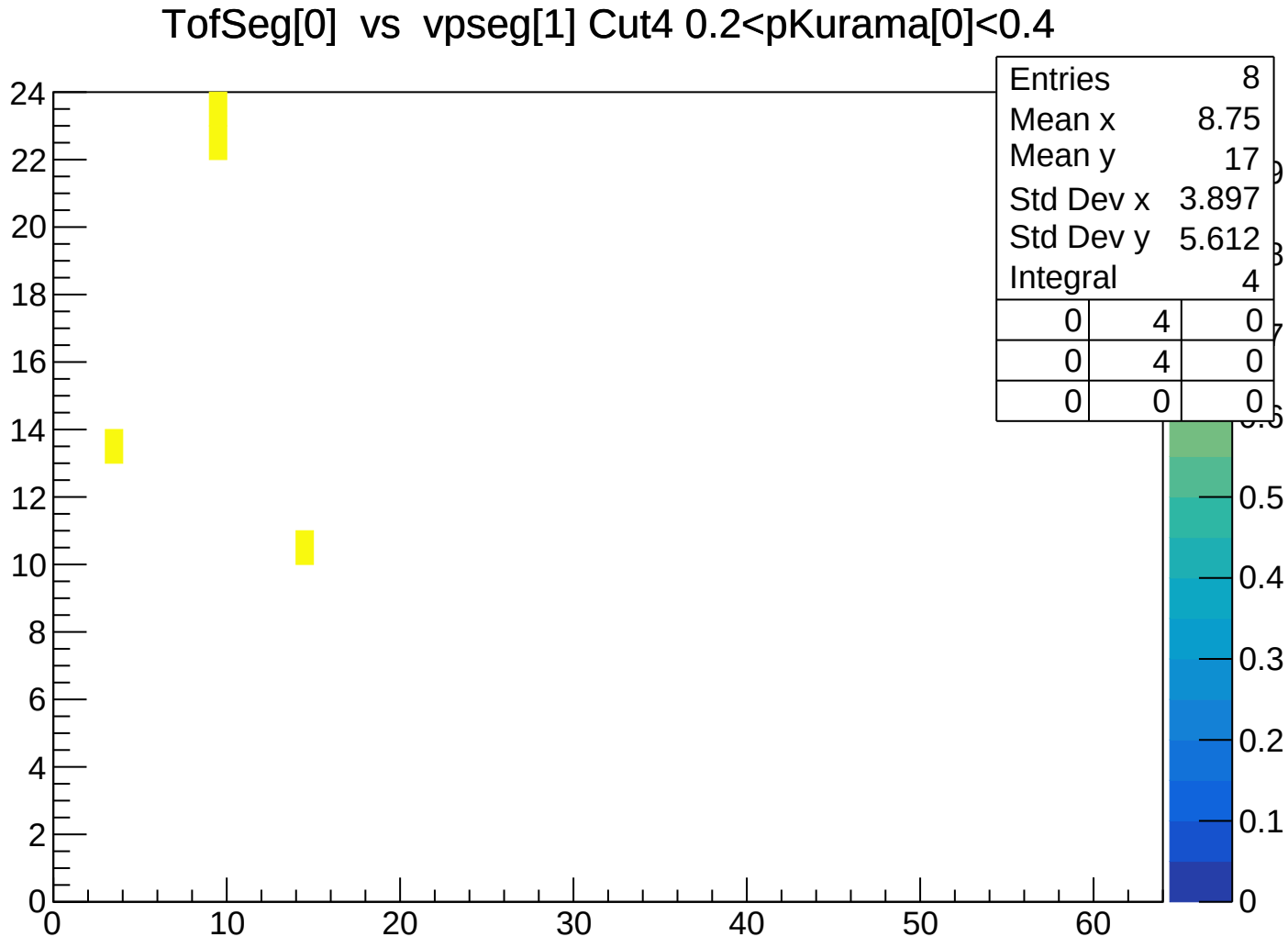

vpy[1] vs vpx[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

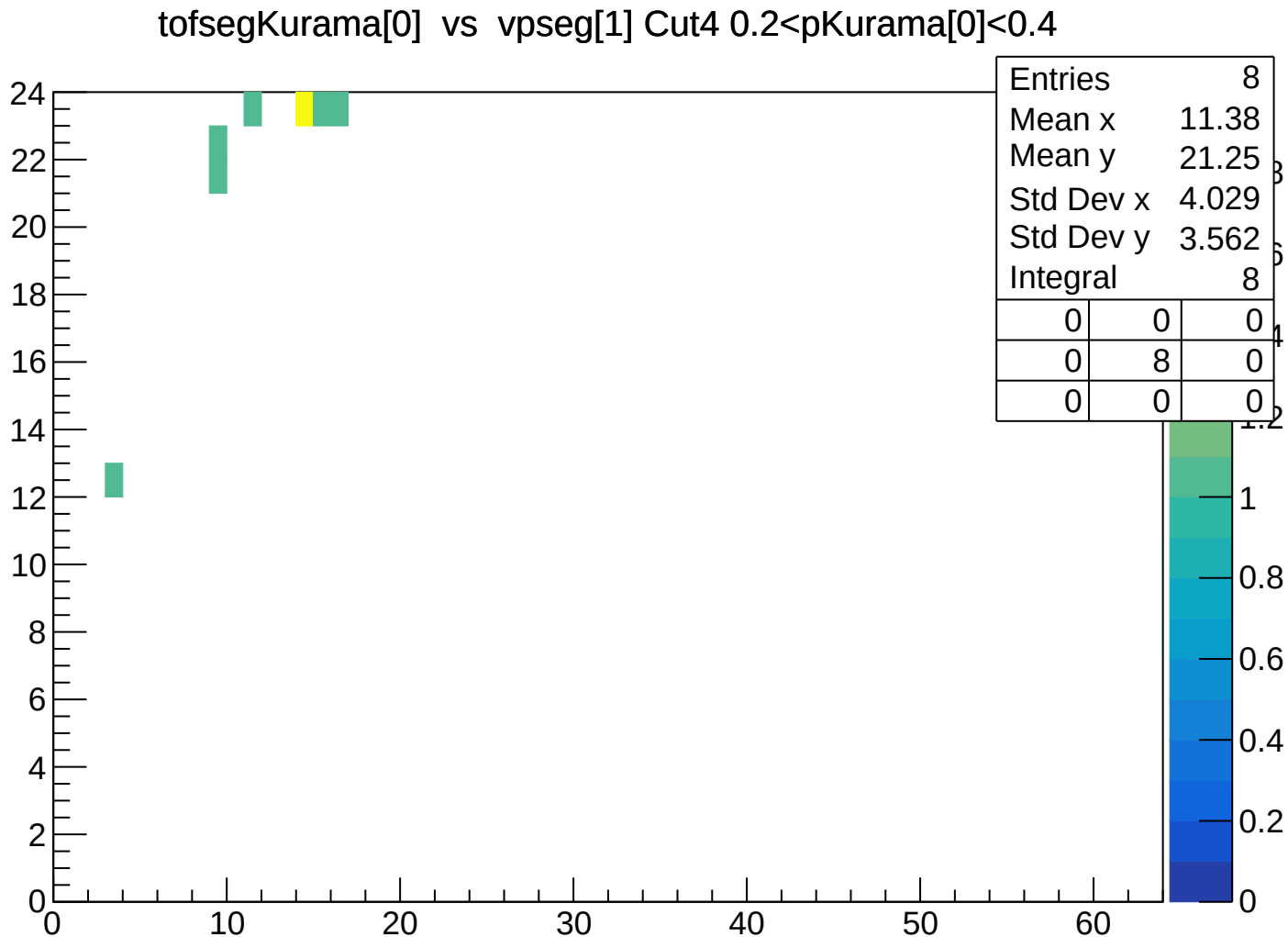

TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

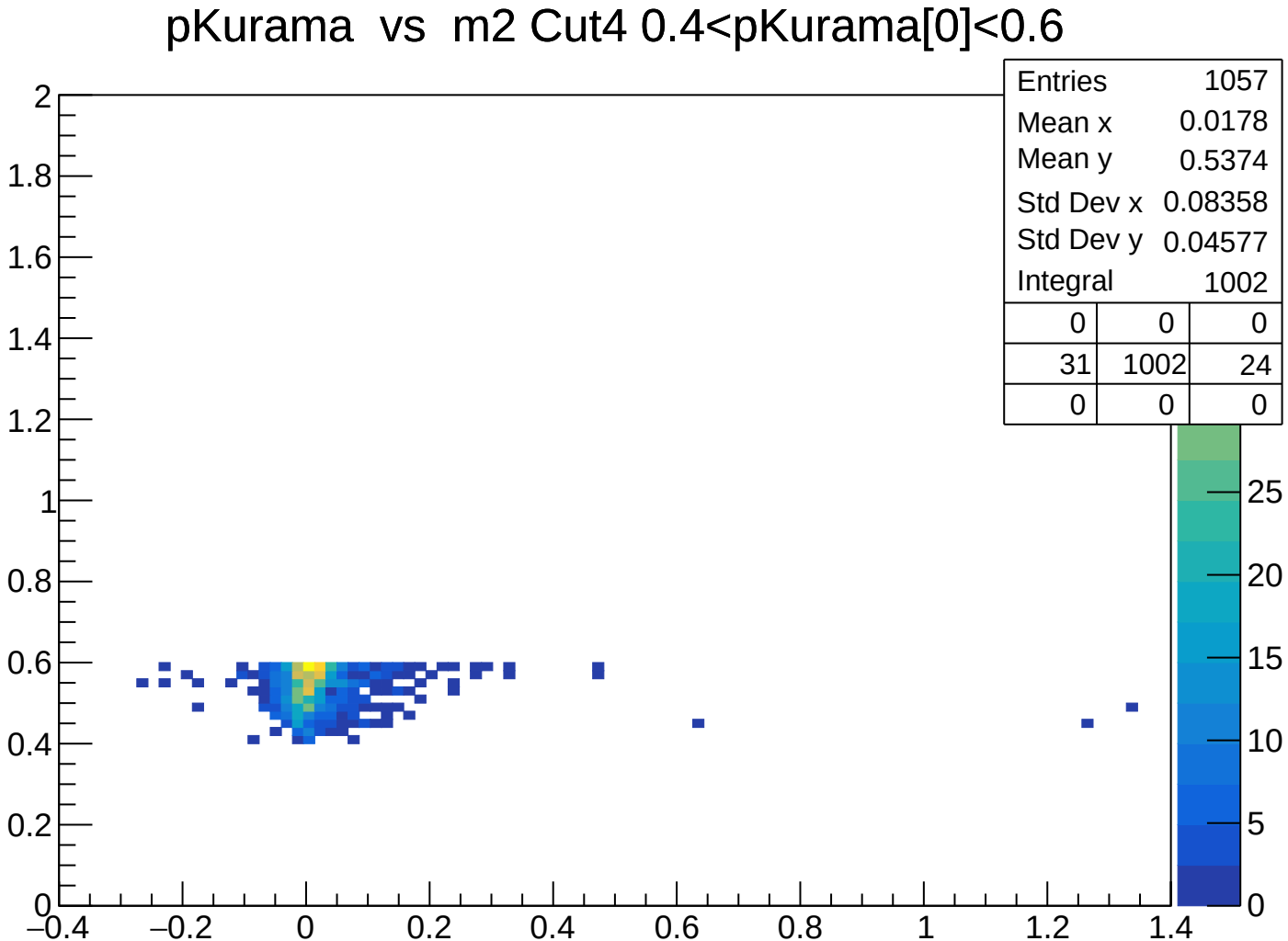

tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

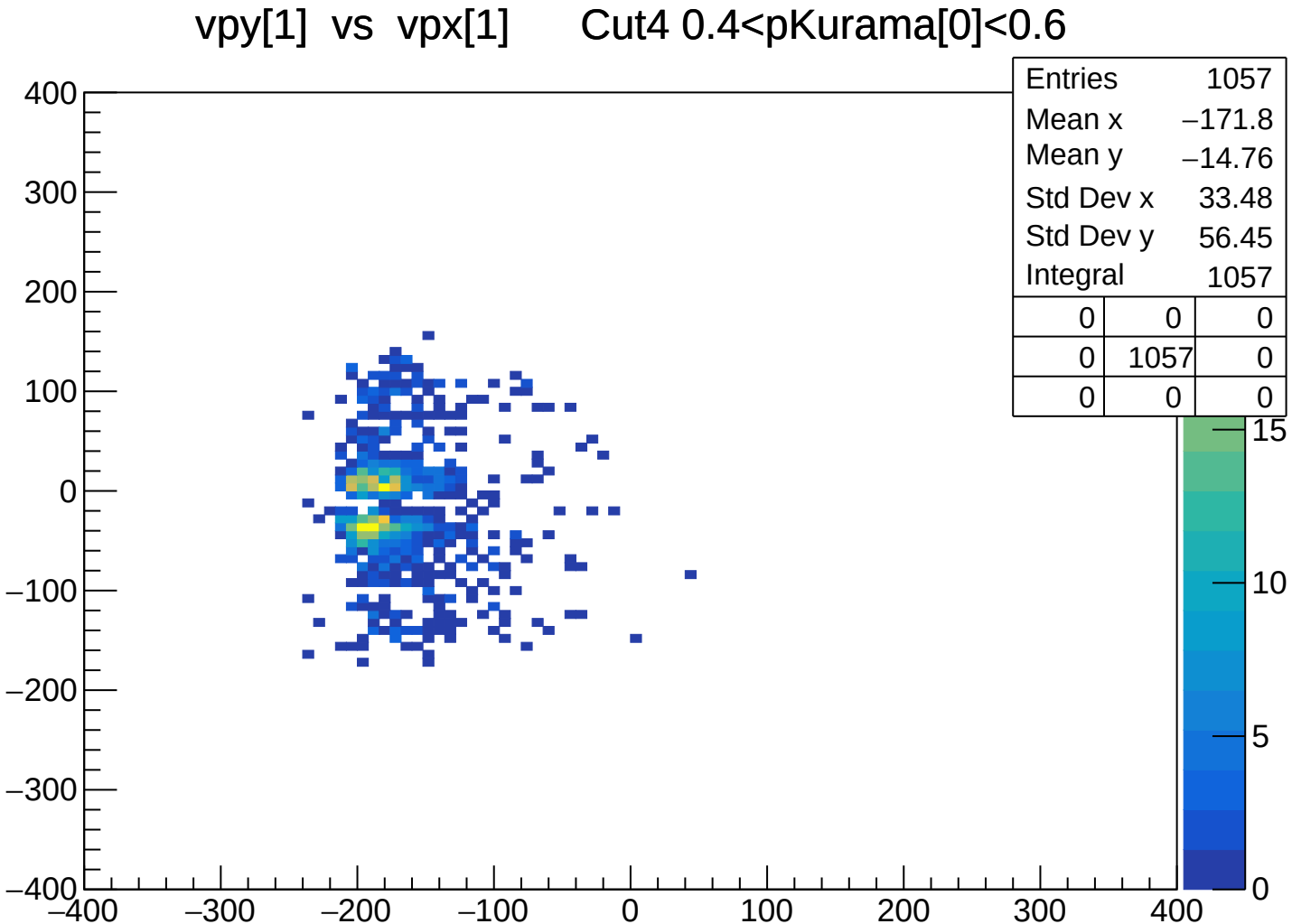

pKurama vs m2 Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x 0.03148
Mean y 0.3678
Std Dev x 0.02007
Std Dev y 0.02897
Integral 8
0 0 0
0 8 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.5
1
0.5
0

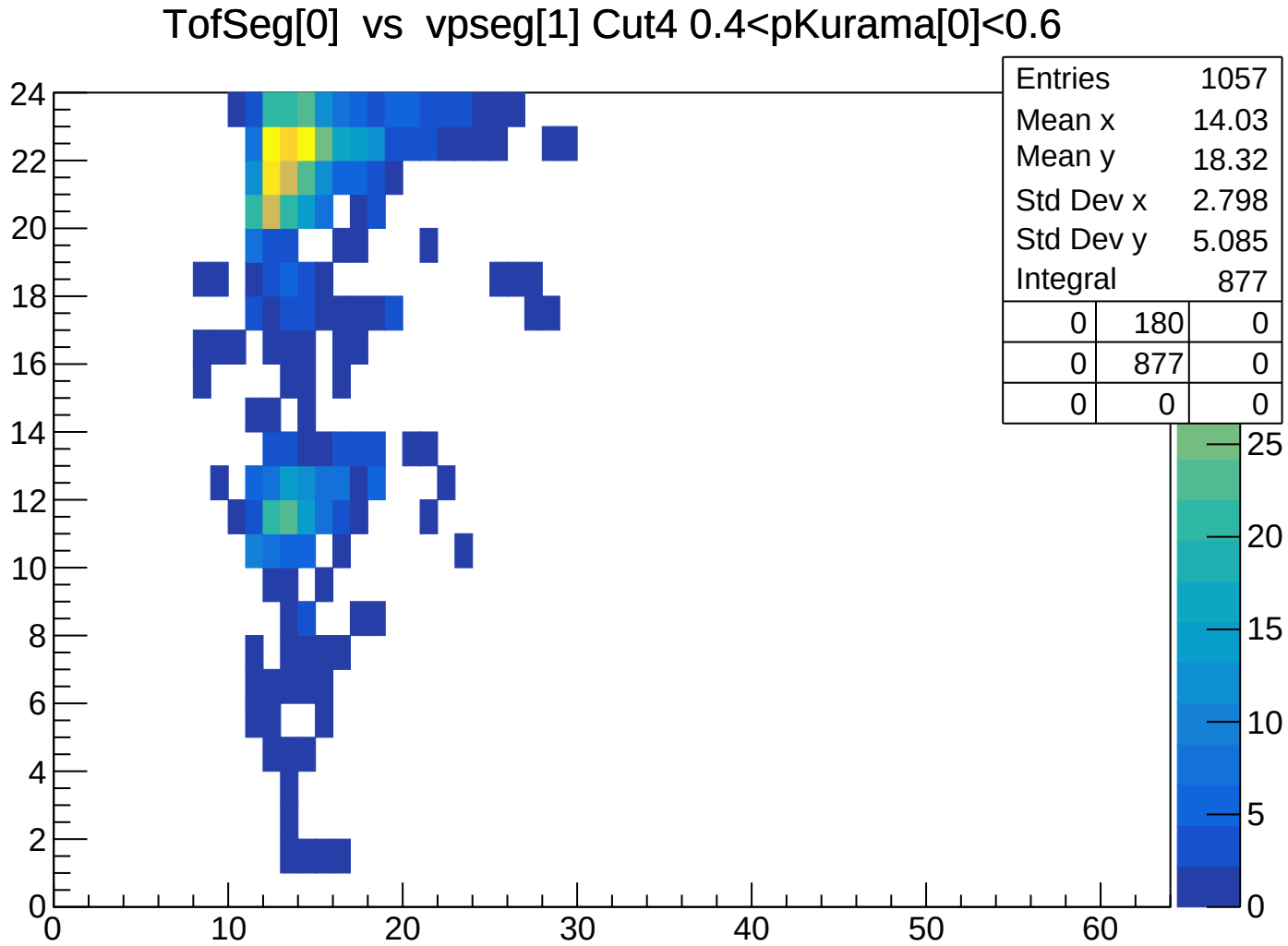

vpy[1] vs vpx[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x −204
Mean y −7.584
Std Dev x 41.74
Std Dev y 36.89
Integral 8
0 0 0
0 8 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
0.5
0.4
0.3
0.2
0.1
0

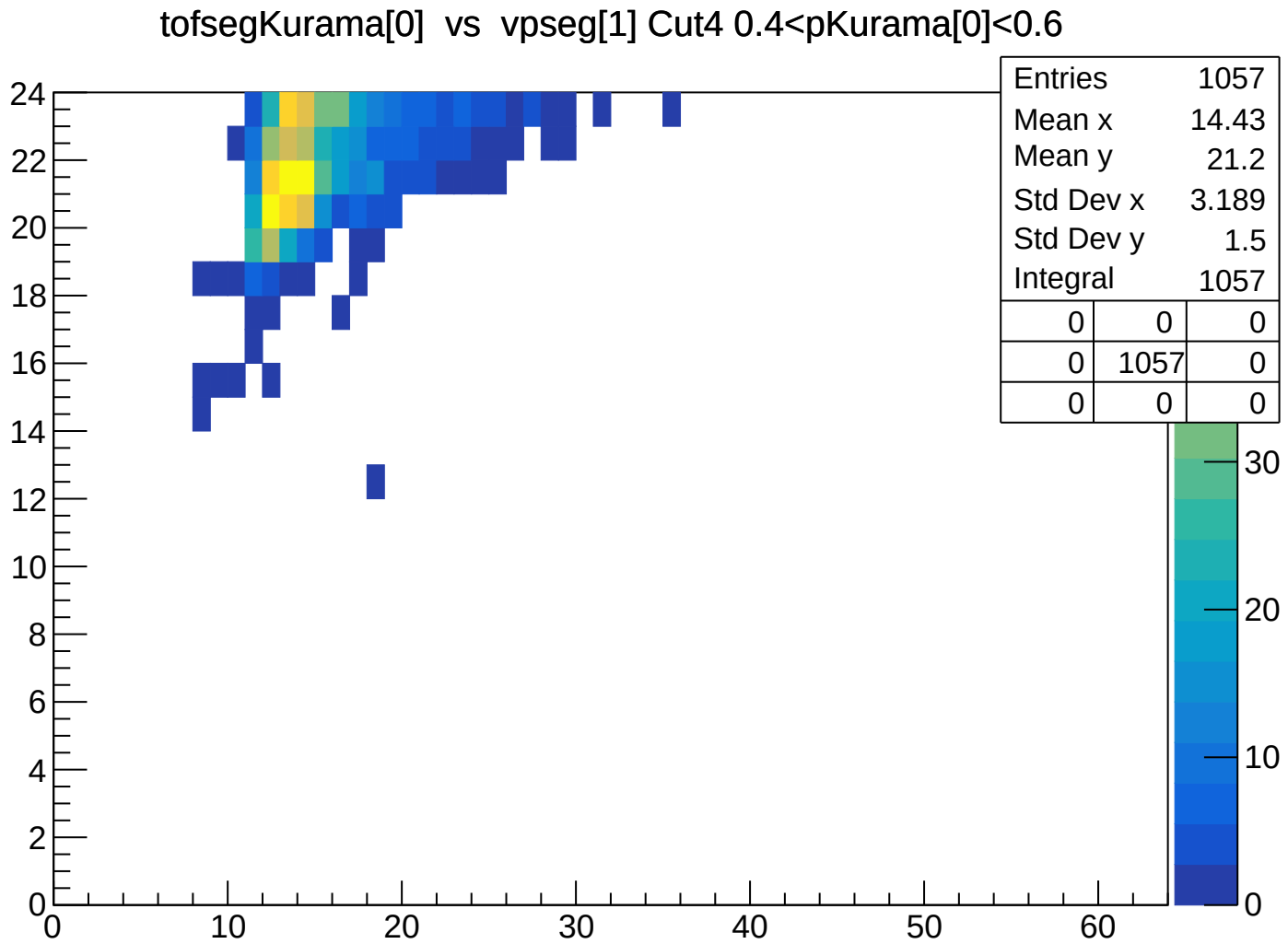

TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x 8.75
Mean y 17
Std Dev x 3.897
Std Dev y 5.612
Integral 4
0 4 0
0 4 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5


tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x 11.38
Mean y 21.25
Std Dev x 4.029
Std Dev y 3.562
Integral 8
0 0 0
0 8 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
0.2
0.4
0.6
0.8
1

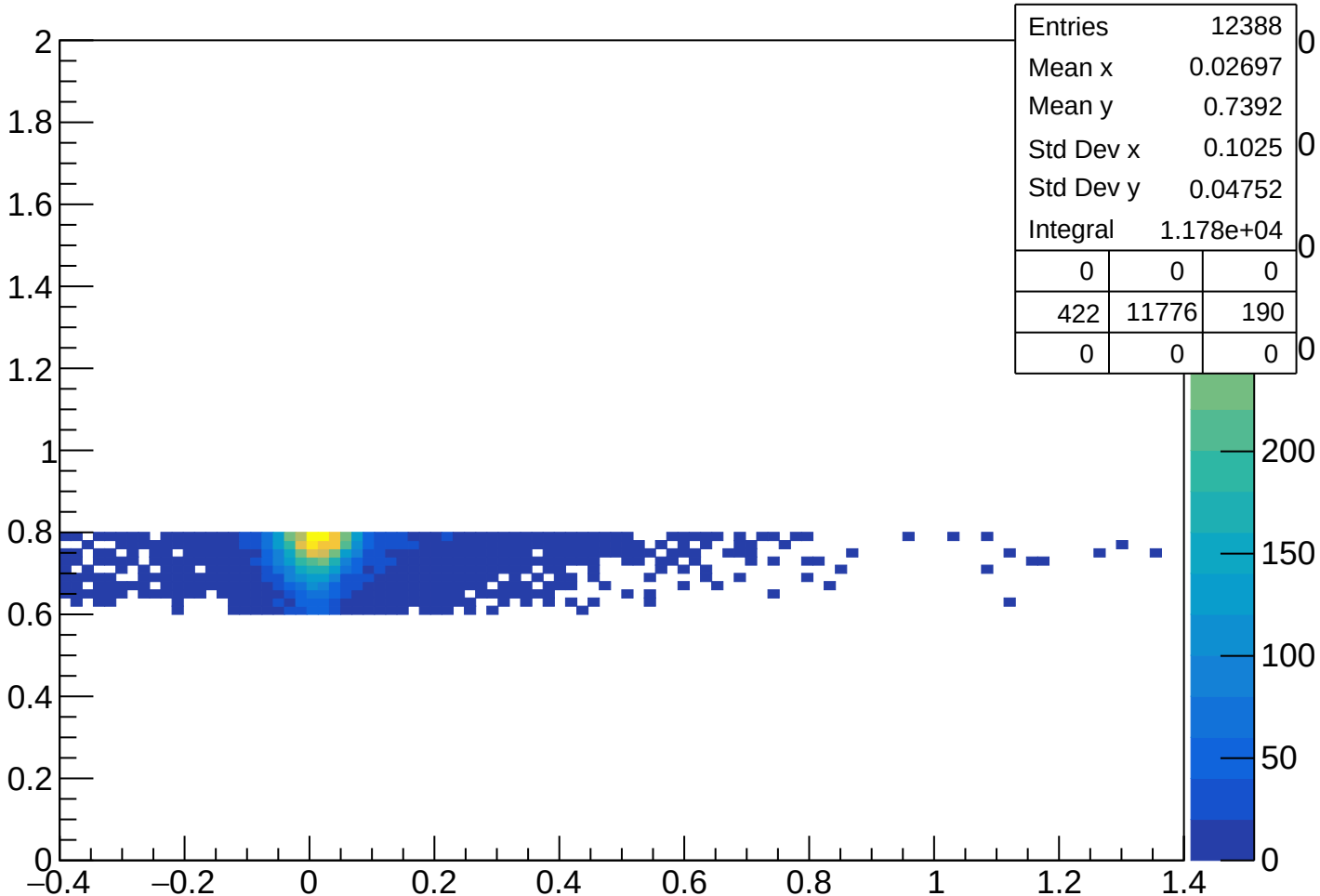

pKurama vs m2 Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x 0.0178
Mean y 0.5374
Std Dev x 0.08358
Std Dev y 0.04577
Integral 1002
0 0 0
31 1002 24
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
25
20
15
10
5
0

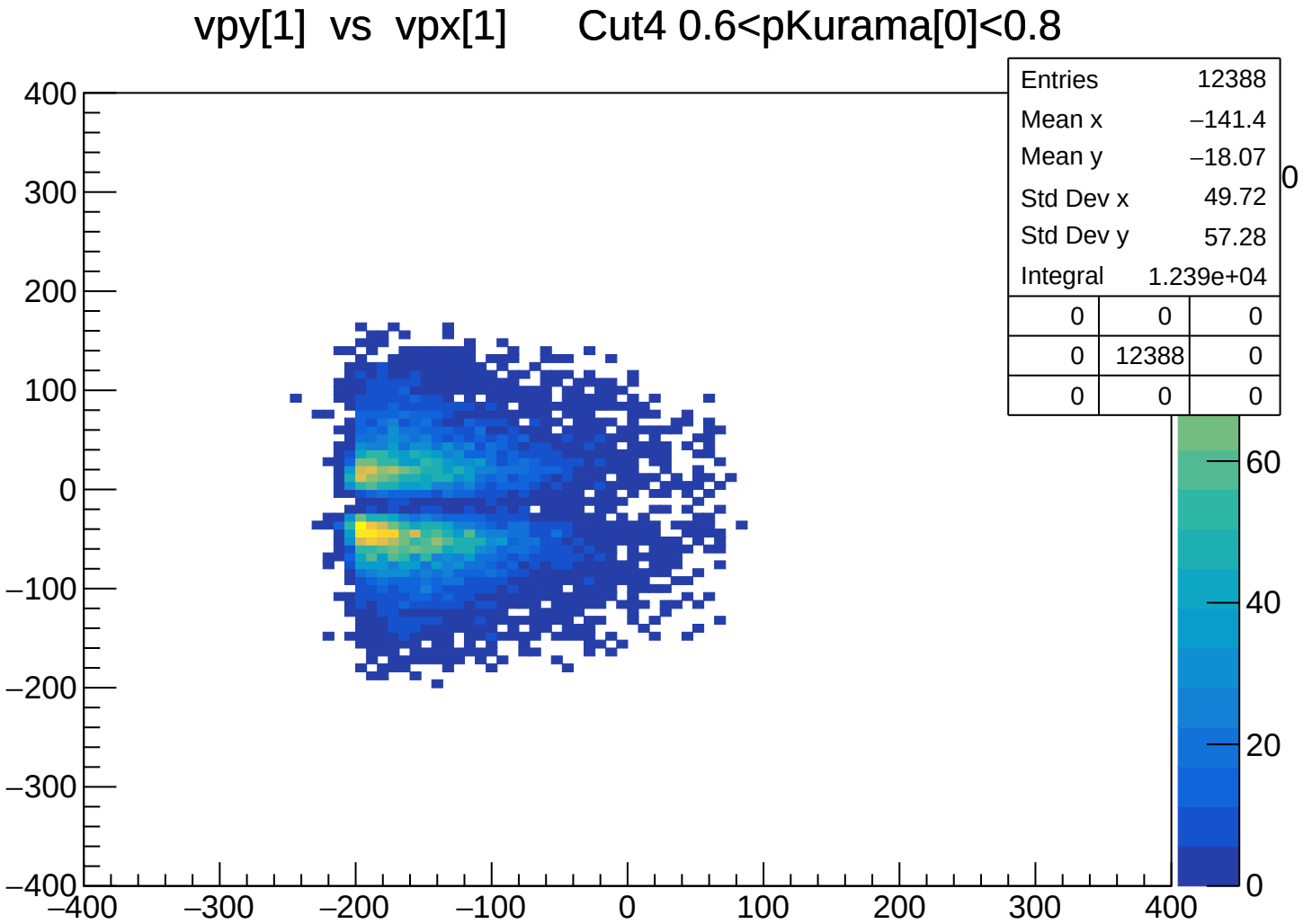

vpy[1] vs vpx[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x −171.8
Mean y −14.76
Std Dev x 33.48
Std Dev y 56.45
Integral 1057
0 0 0
0 1057 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
15
10
5
0

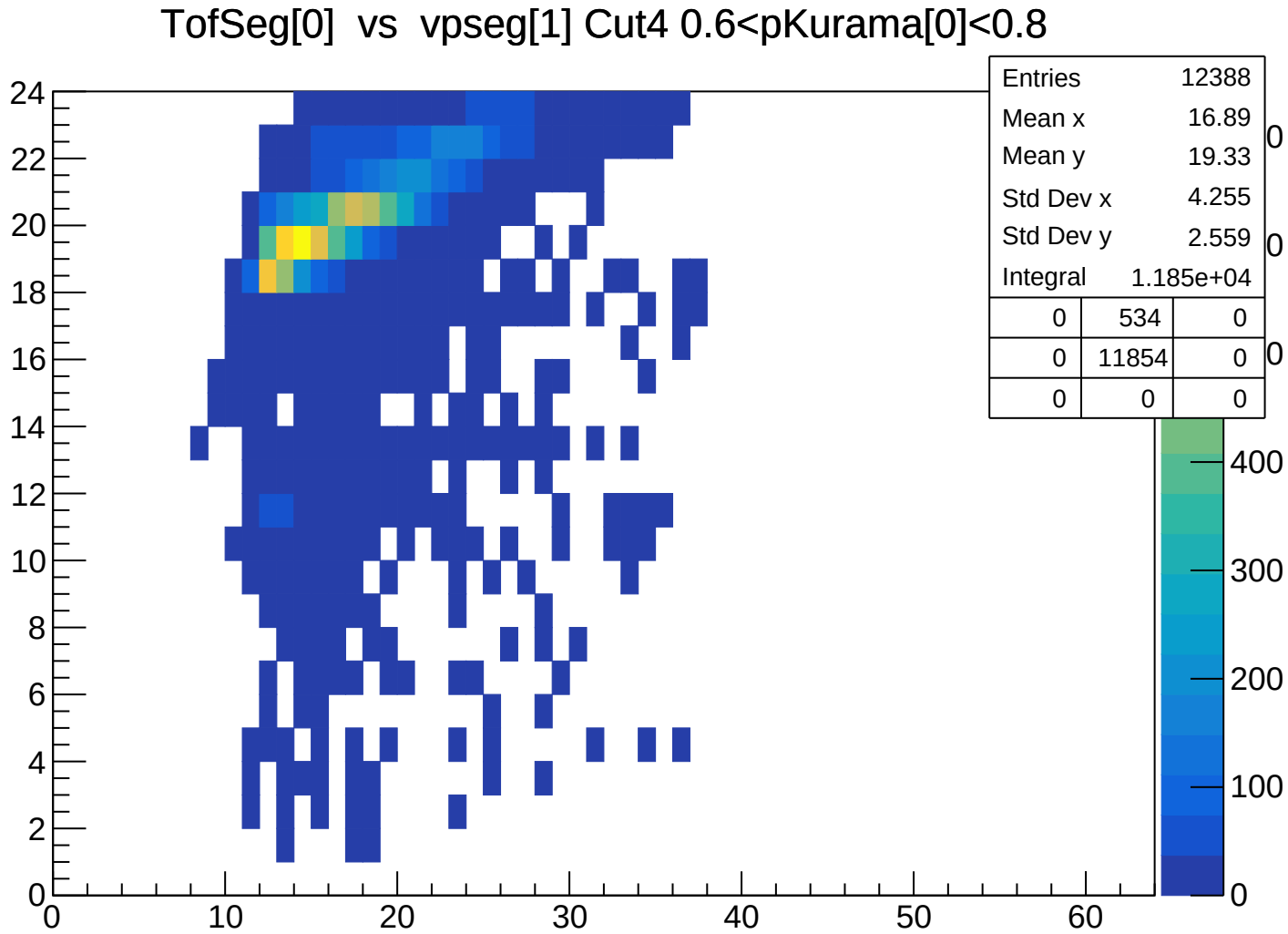

TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x 14.03
Mean y 18.32
Std Dev x 2.798
Std Dev y 5.085
Integral 877
0 180 0
0 877 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20
25

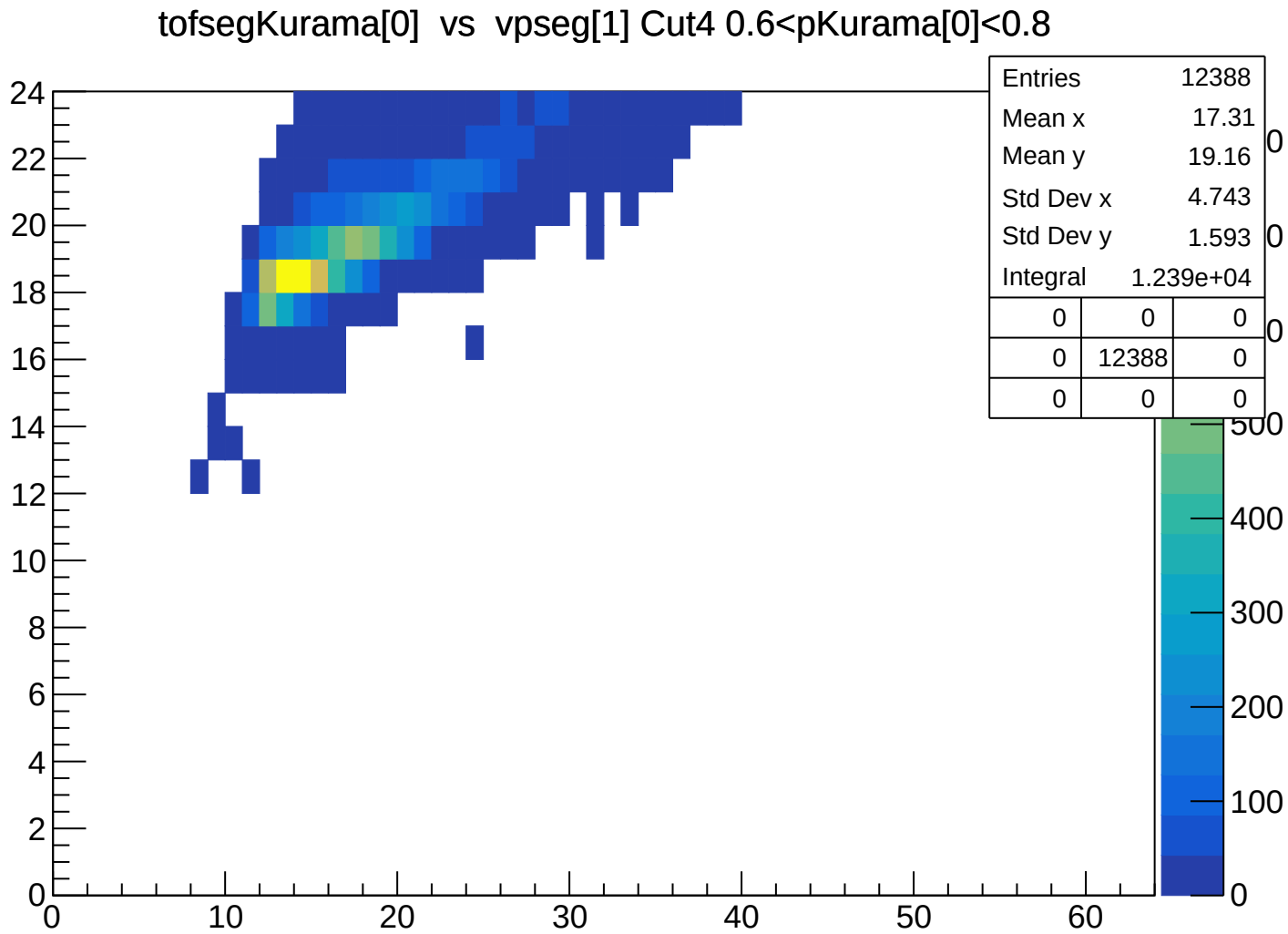

tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x 14.43
Mean y 21.2
Std Dev x 3.189
Std Dev y 1.5
Integral 1057
0 0 0
0 1057 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

pKurama vs m2 Cut4 0.6<pKurama[0]<0.8

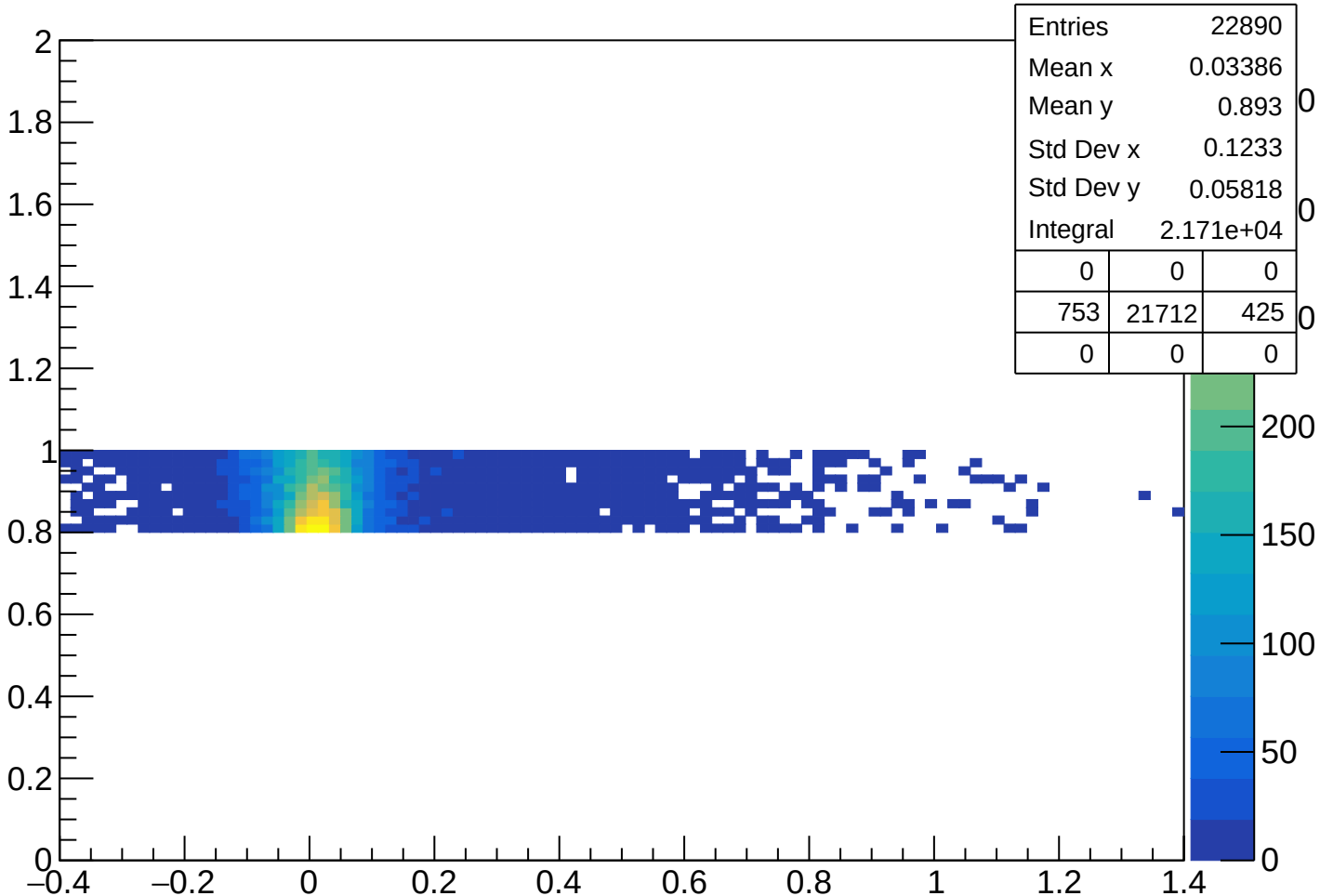


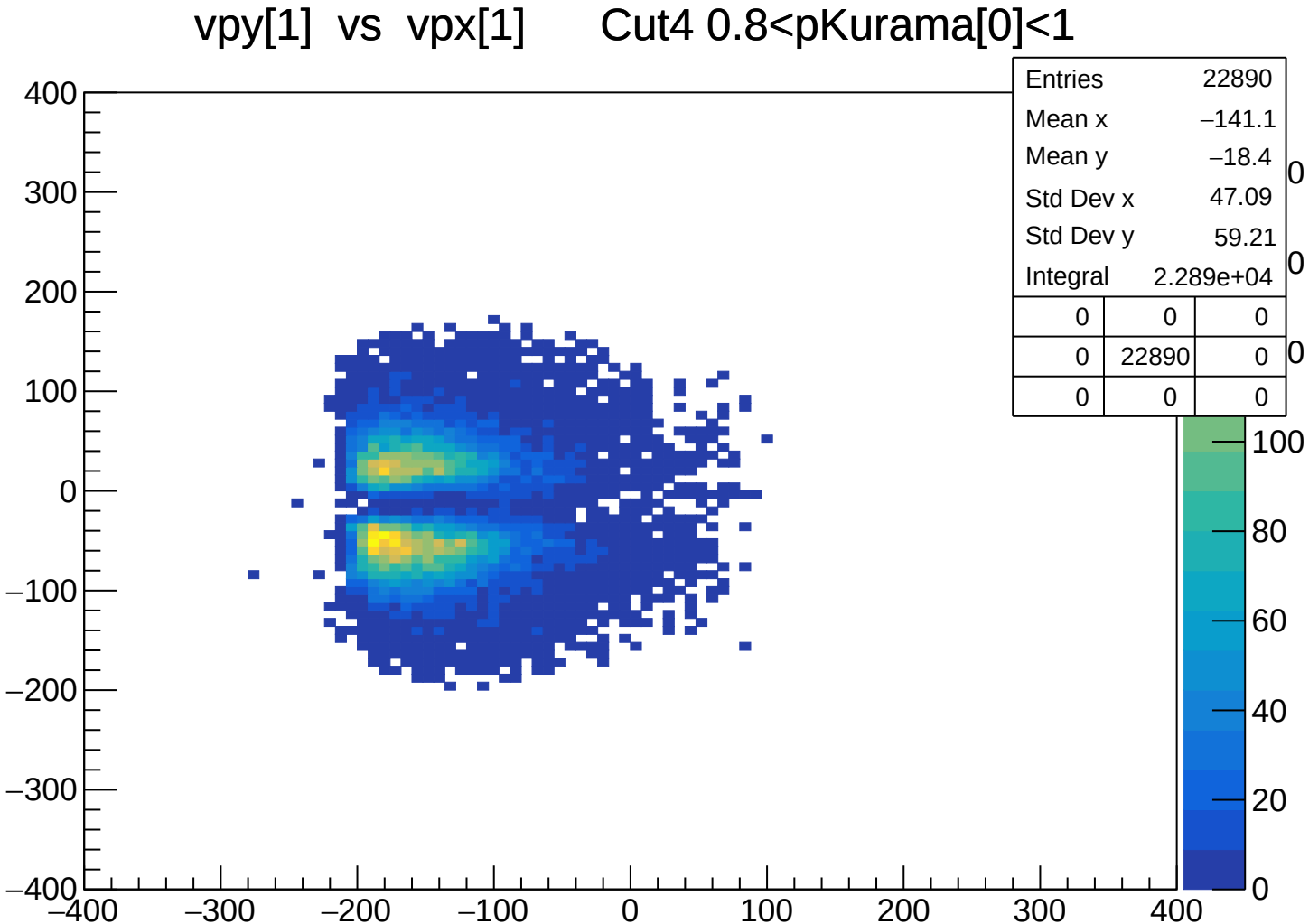

vpy[1] vs vpx[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x −141.4
Mean y −18.07
Std Dev x 49.72
Std Dev y 57.28
Integral 1.239e+04
0 0 0
0 12388 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
60
40
20
0

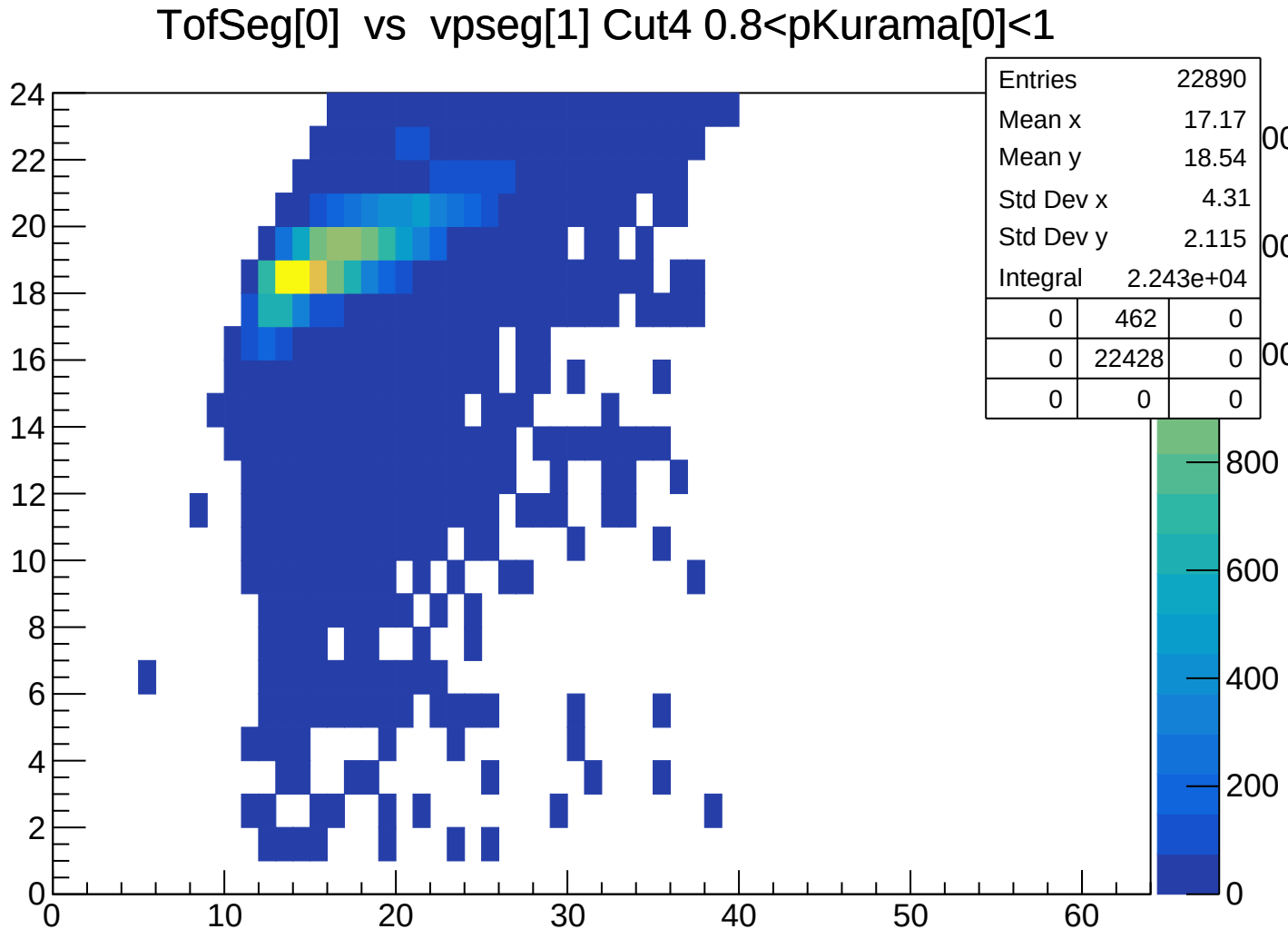

TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x 16.89
Mean y 19.33
Std Dev x 4.255
Std Dev y 2.559
Integral 1.185e+04
0 534 0
0 11854 0
0 0 0
0
0
0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
100
200
300
400

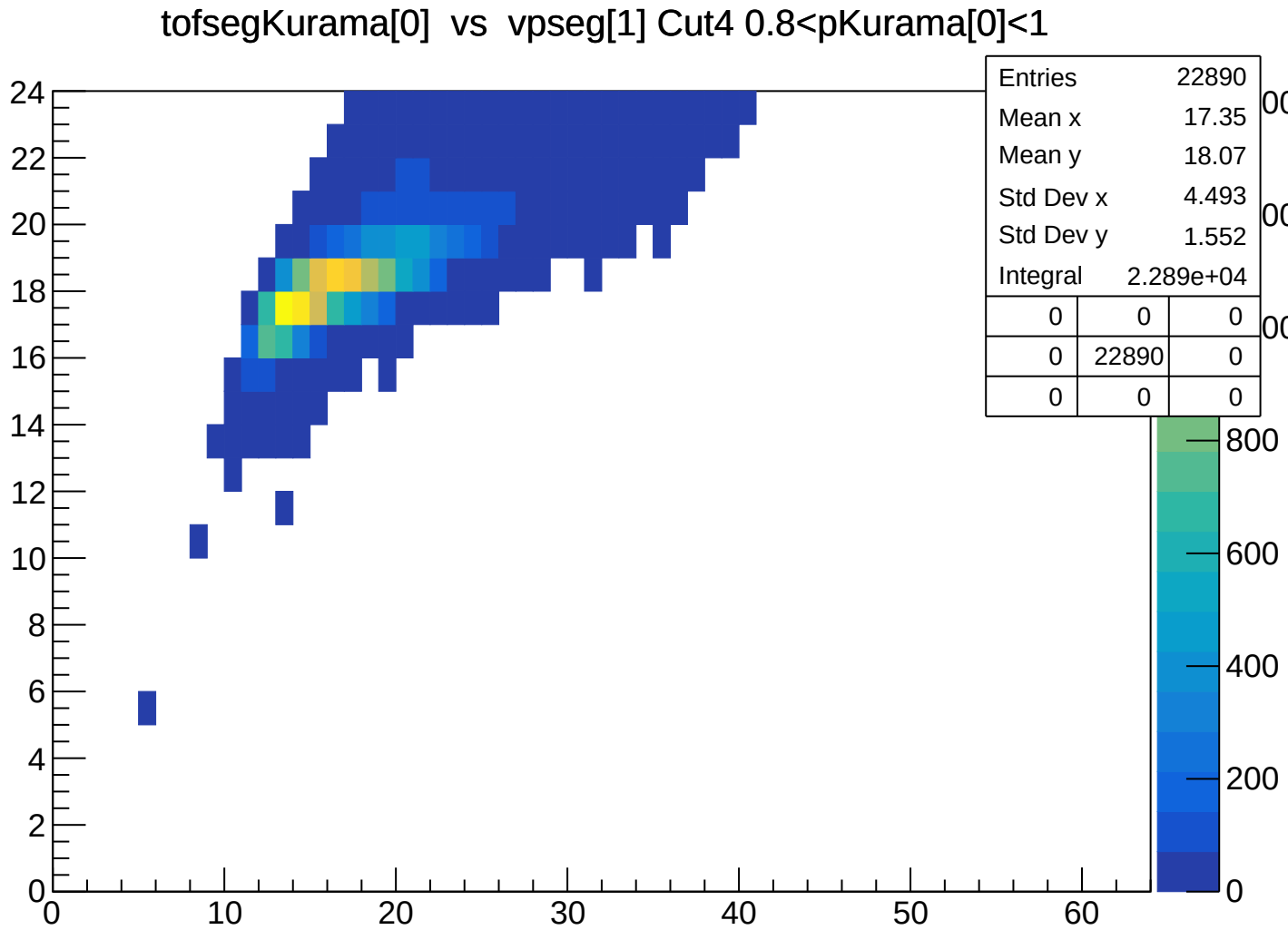

tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x 17.31
Mean y 19.16
Std Dev x 4.743
Std Dev y 1.593
Integral 1.239e+04
0 0 0
0 12388 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
100
200
300
400
500

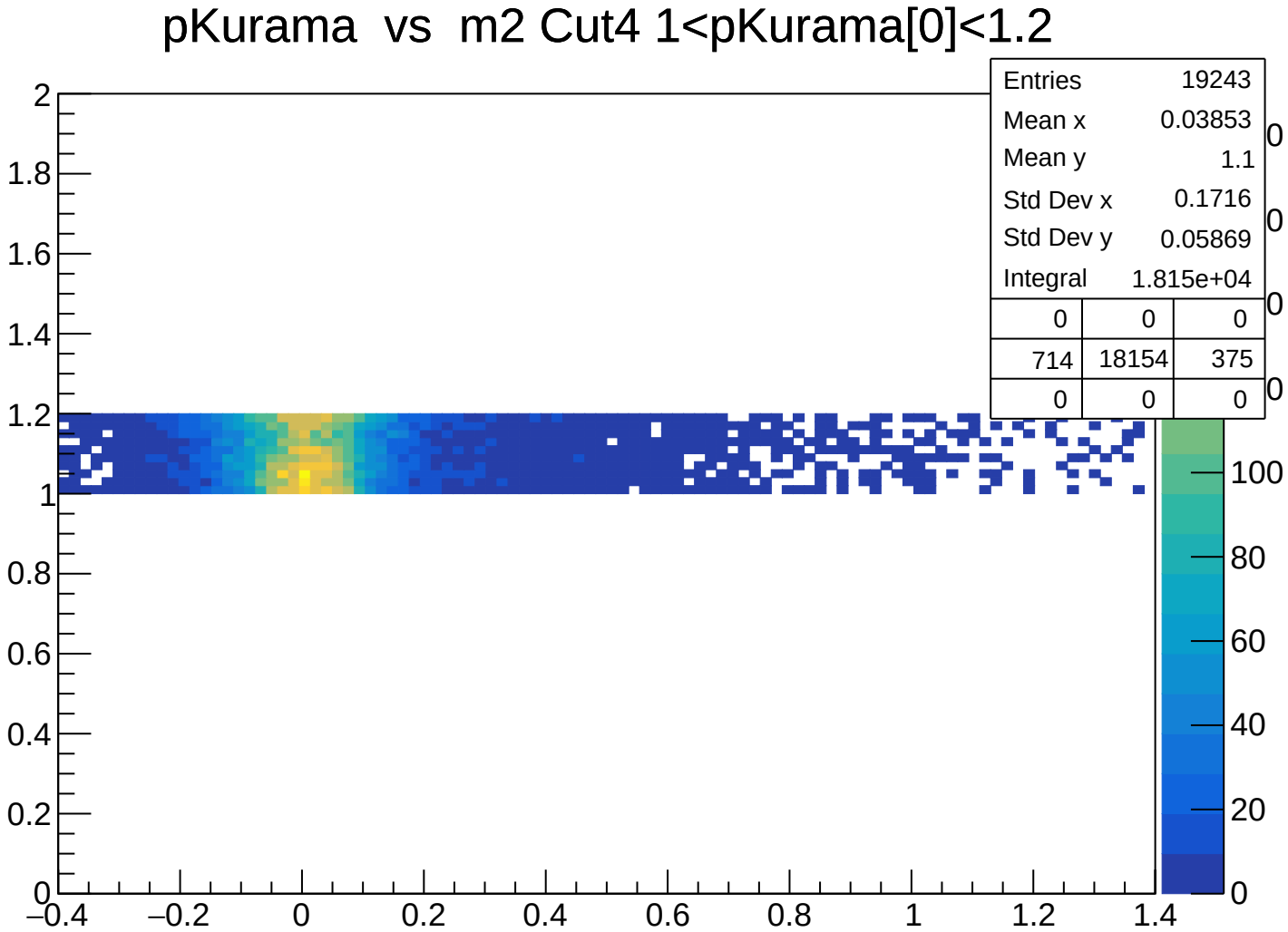
pKurama vs m2 Cut4 0.8<pKurama[0]<1

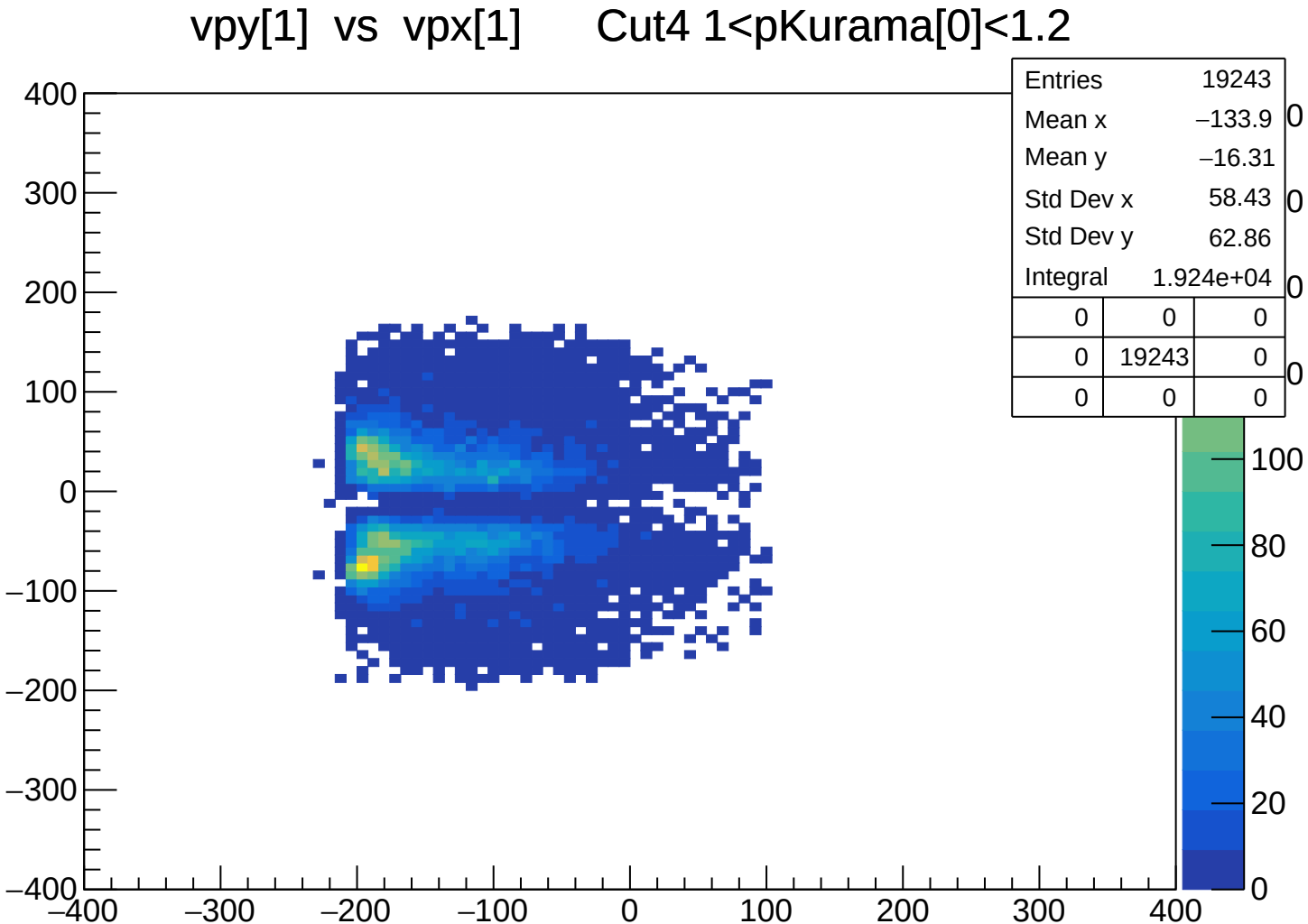


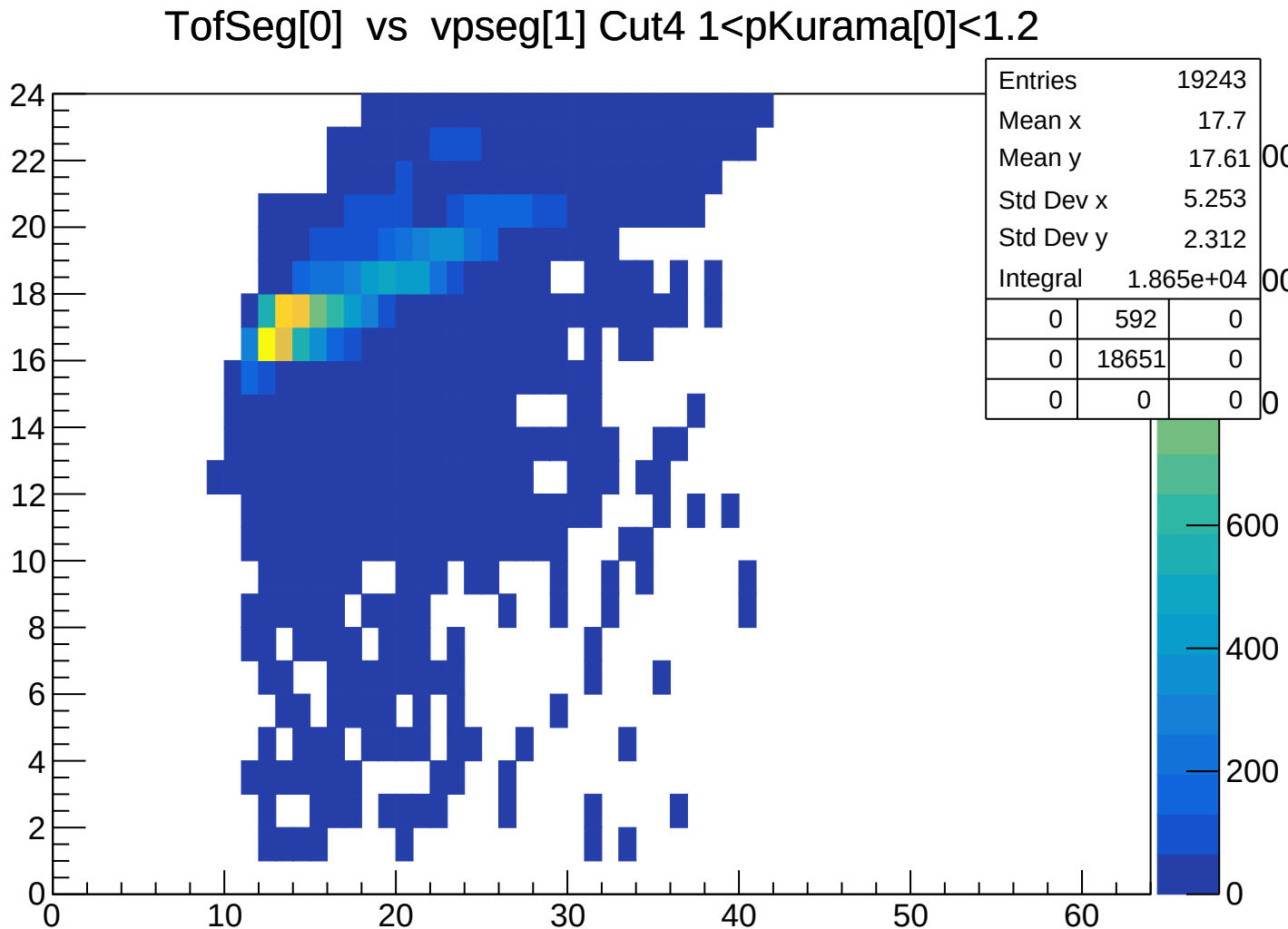

vpy[1] vs vpx[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x –141.1
Mean y –18.4
Std Dev x 47.09
Std Dev y 59.21
Integral 2.289e+04
0 0 0
0 22890 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
100
80
60
40
20
0

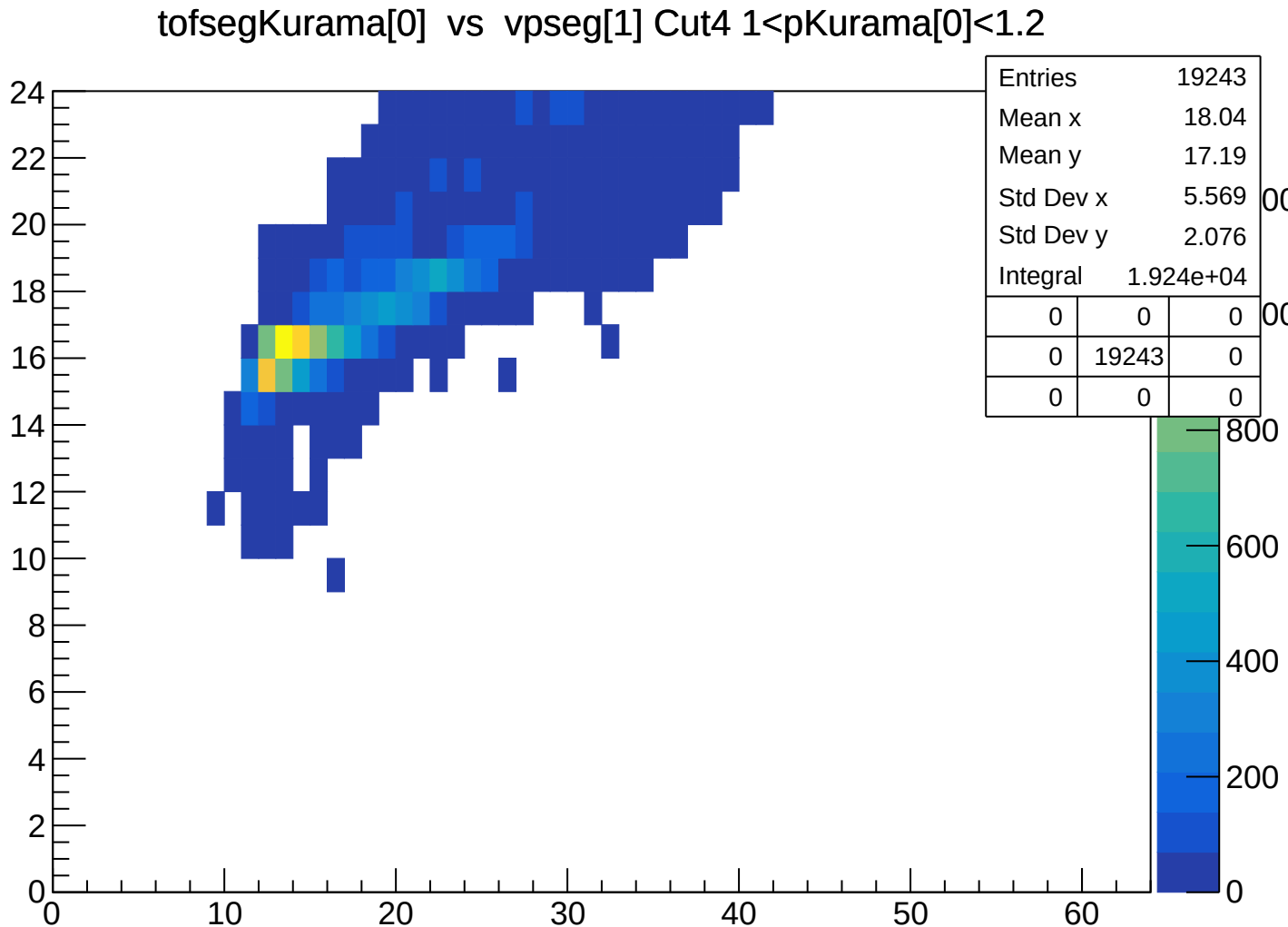

TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x 17.17
Mean y 18.54
Std Dev x 4.31
Std Dev y 2.115
Integral 2.243e+04
0 462 0
0 22428 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
200
400
600
800


tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x 17.35
Mean y 18.07
Std Dev x 4.493
Std Dev y 1.552
Integral 2.289e+04
0 0 0
0 22890 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
200
400
600
800

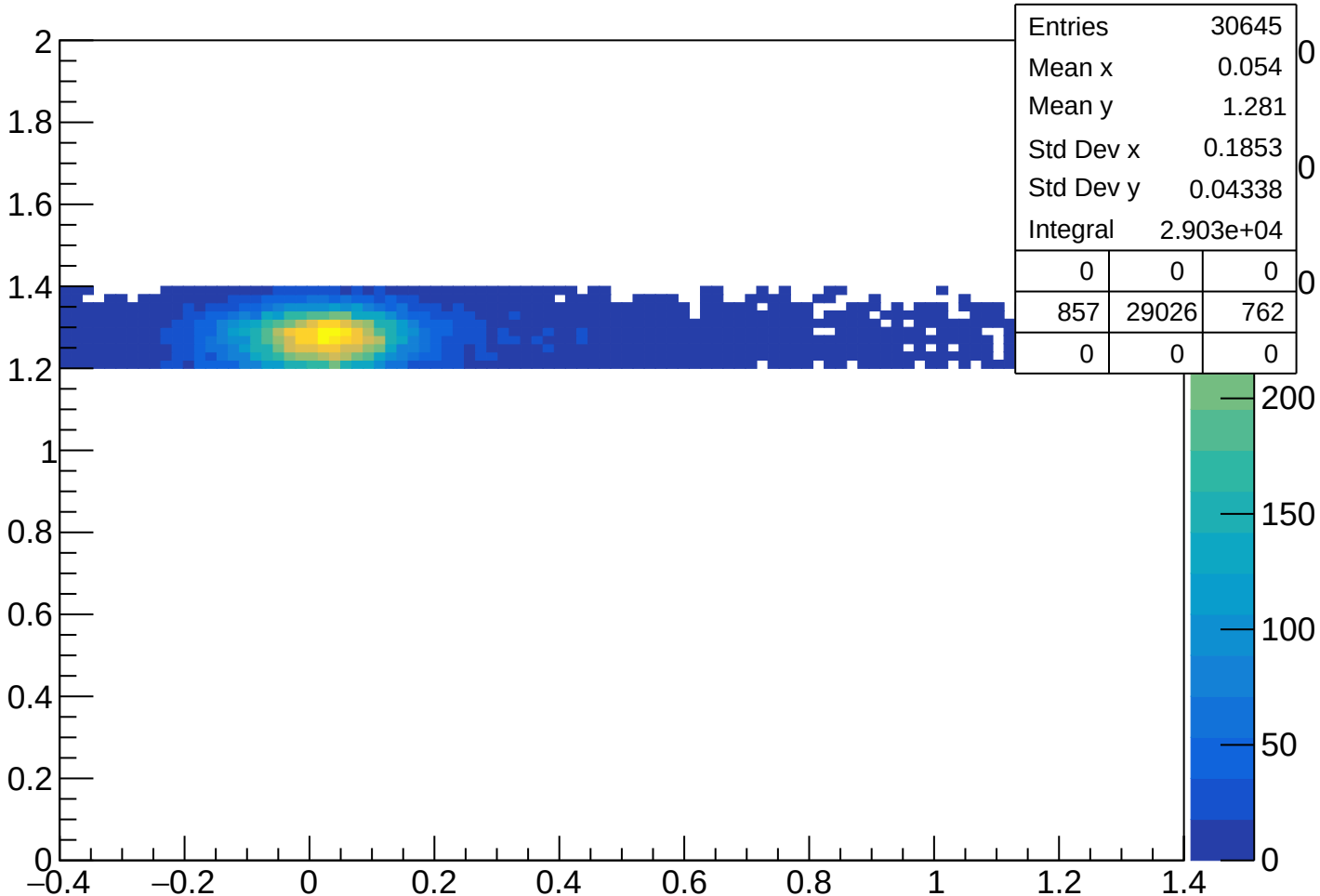

pKurama vs m2 Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x 0.03853
Mean y 1.1
Std Dev x 0.1716
Std Dev y 0.05869
Integral 1.815e+04
0 0 0
714 18154 375
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
100
80
60
40
20
0

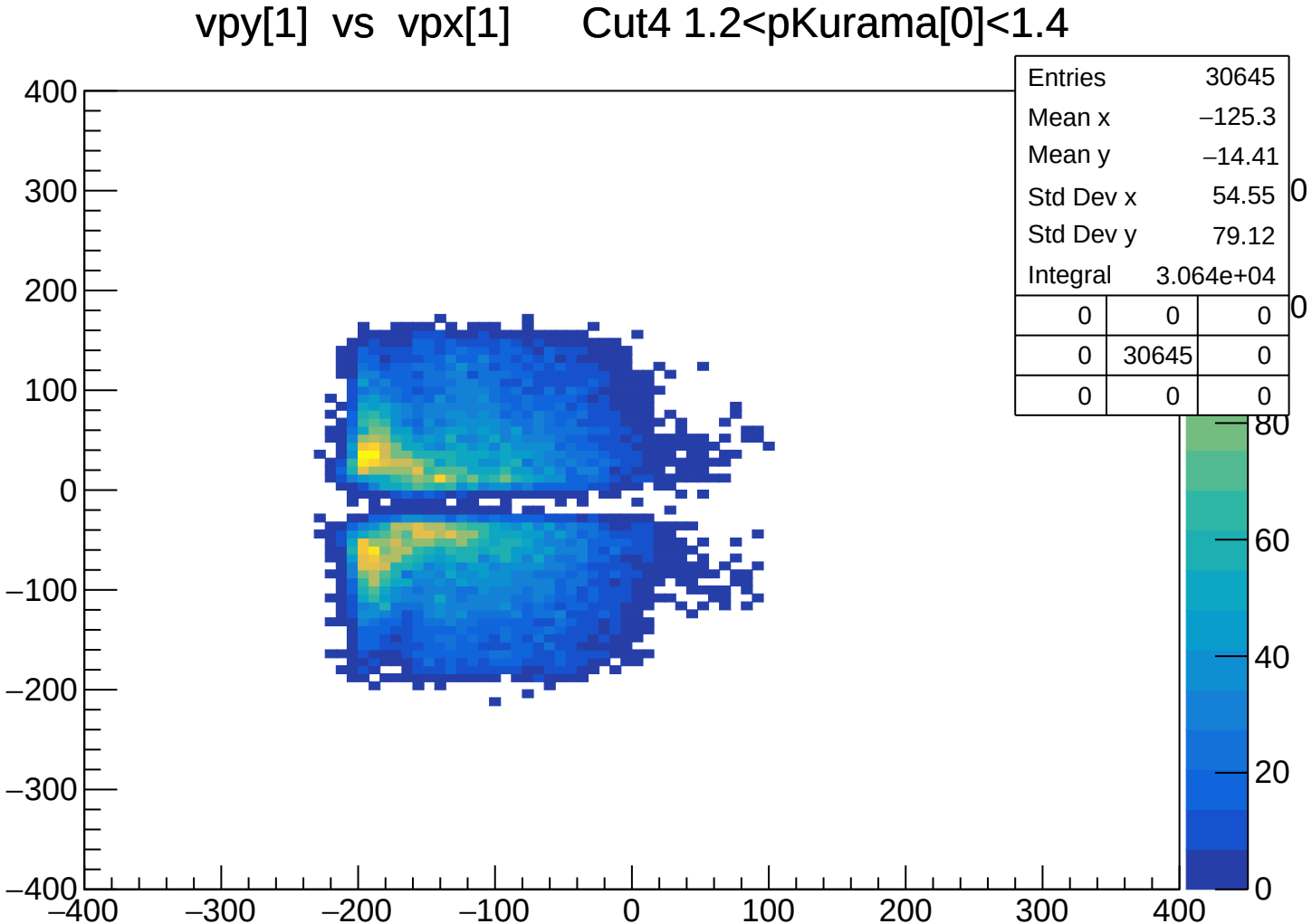

vpy[1] vs vpx[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x –133.9
Mean y –16.31
Std Dev x 58.43
Std Dev y 62.86
Integral 1.924e+04
0 0 0
0 19243 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
100
80
60
40
20
0

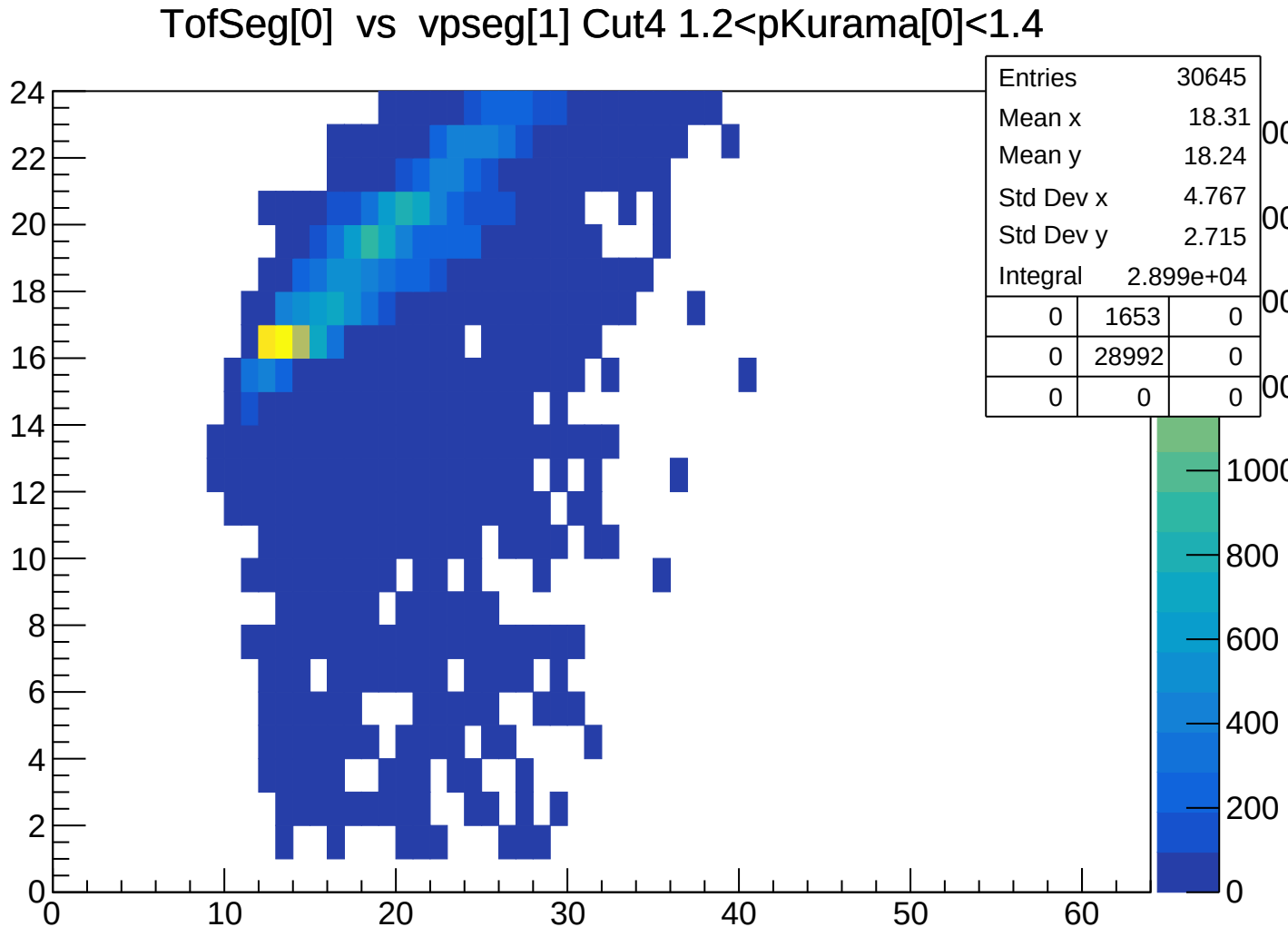

TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x 17.7
Mean y 17.61
Std Dev x 5.253
Std Dev y 2.312
Integral 1.865e+04
0 592 0
0 18651 0
0 0 0
0
10
20
30
40
50
60
0
2
4
6
8
10
12
14
16
18
20
22
24
0
200
400
600

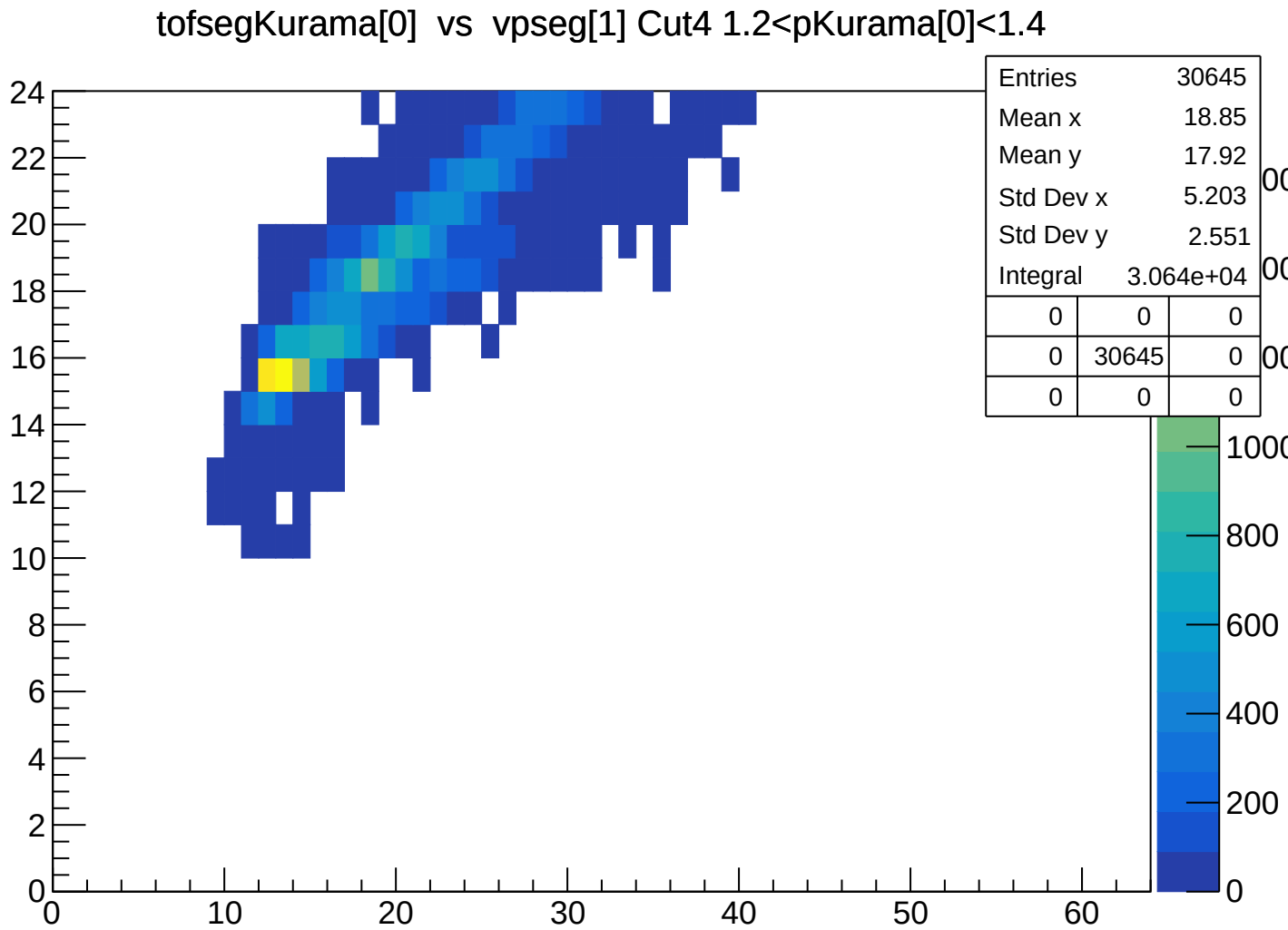

tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x 18.04
Mean y 17.19
Std Dev x 5.569
Std Dev y 2.076
Integral 1.924e+04
0 0 0
0 19243 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
200
400
600
800

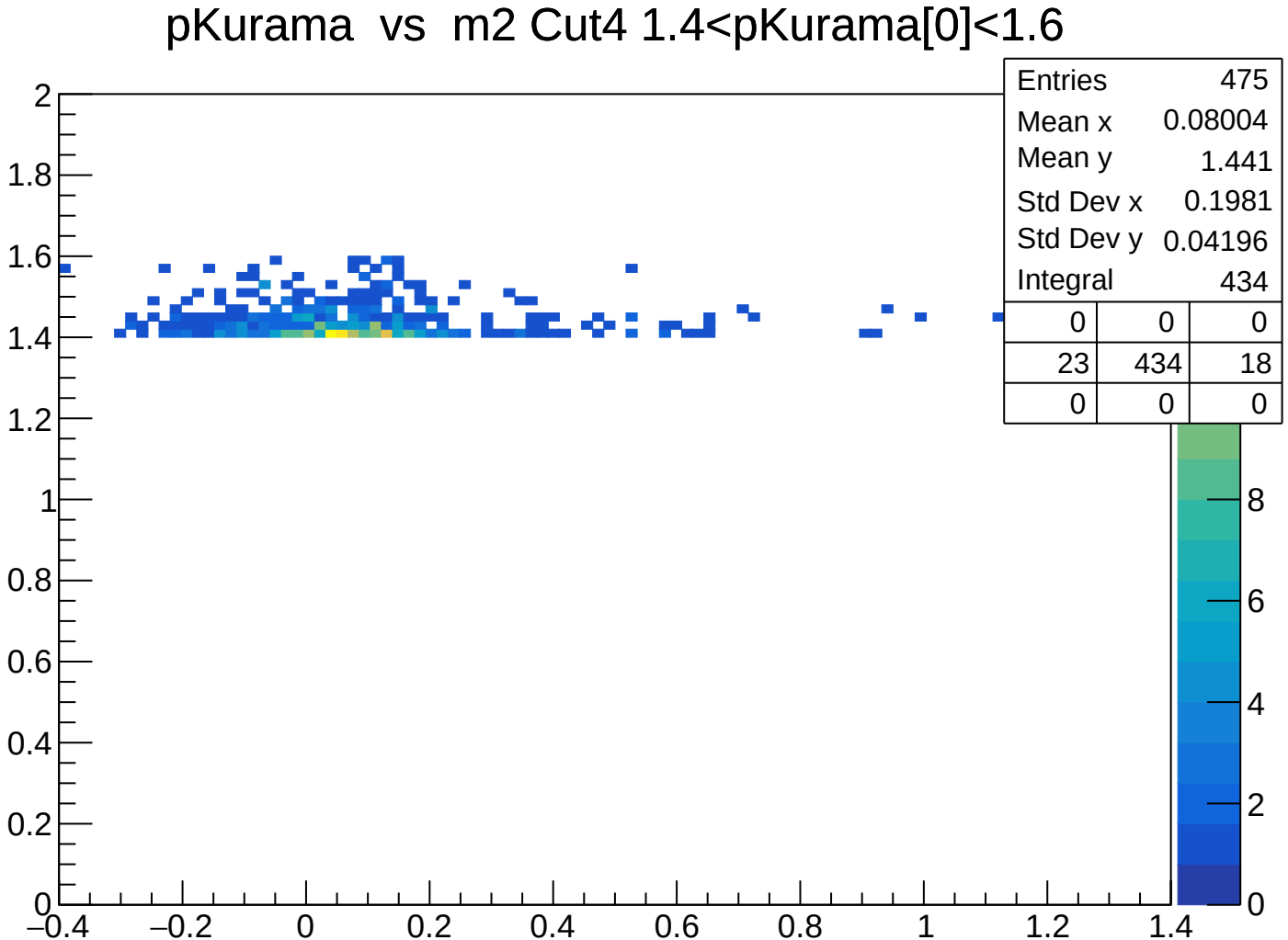
pKurama vs m2 Cut4 1.2<pKurama[0]<1.4

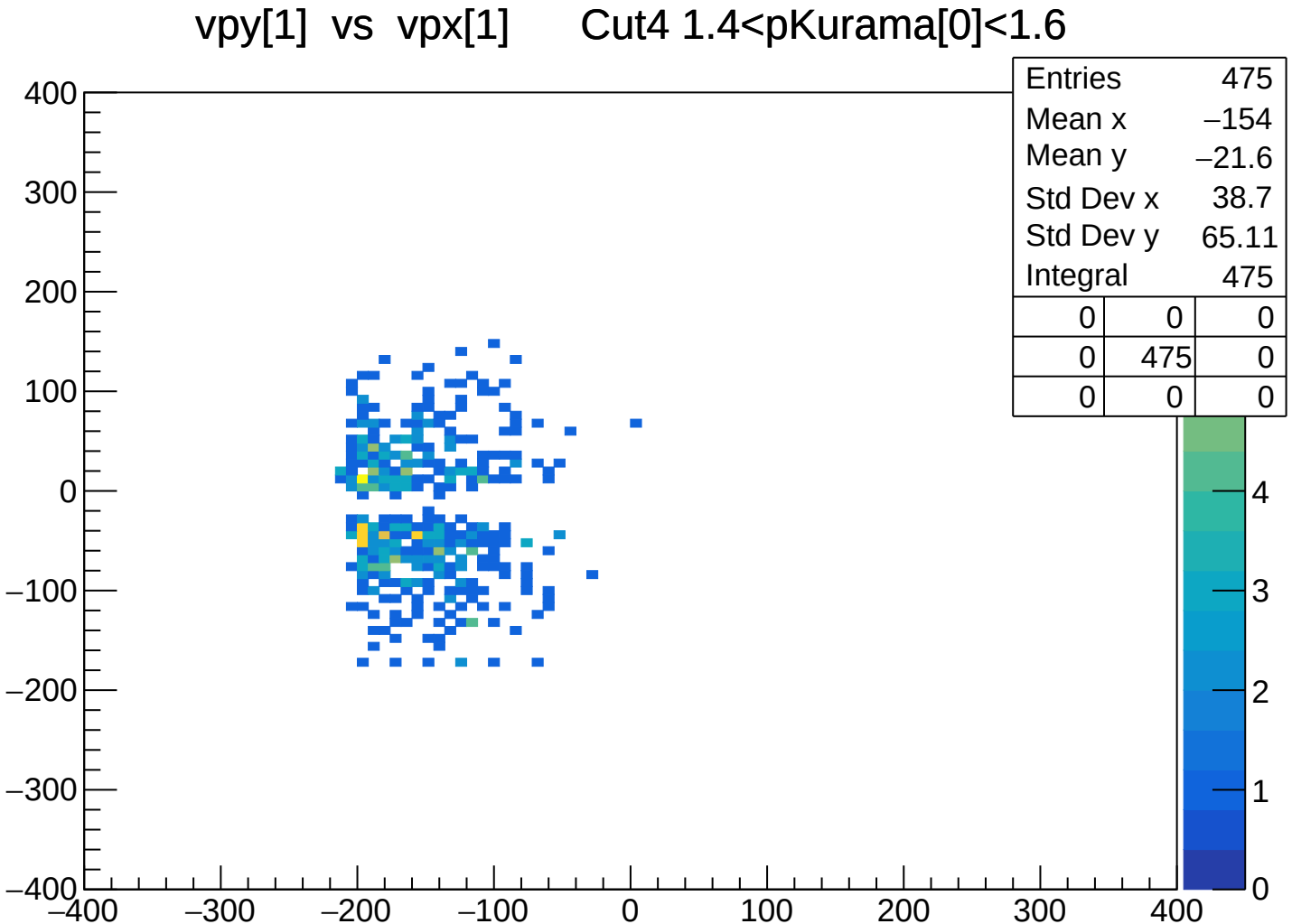


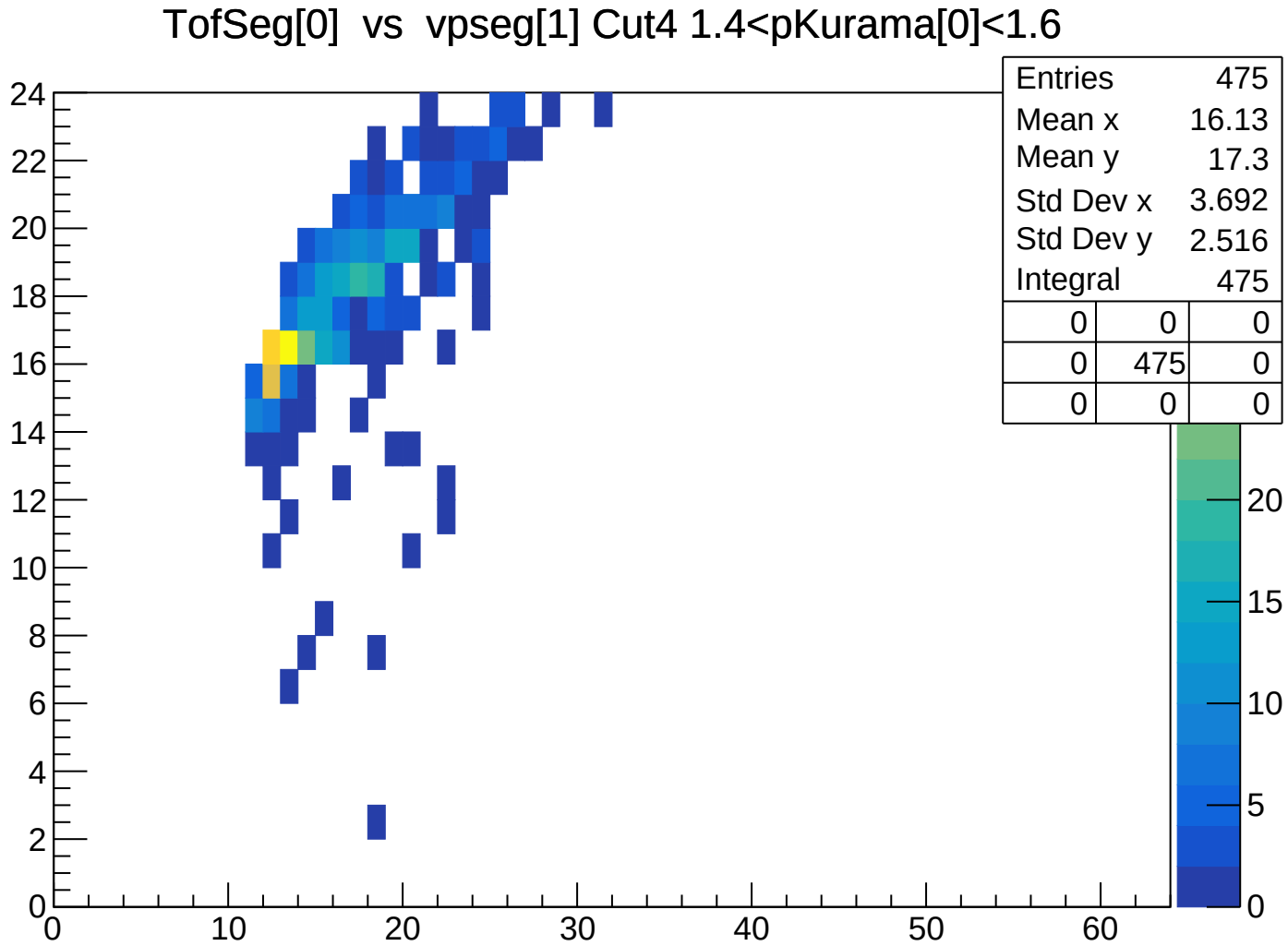

vpy[1] vs vpx[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x –125.3
Mean y –14.41
Std Dev x 54.55
Std Dev y 79.12
Integral 3.064e+04
0 0 0
0 30645 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
80
60
40
20
0

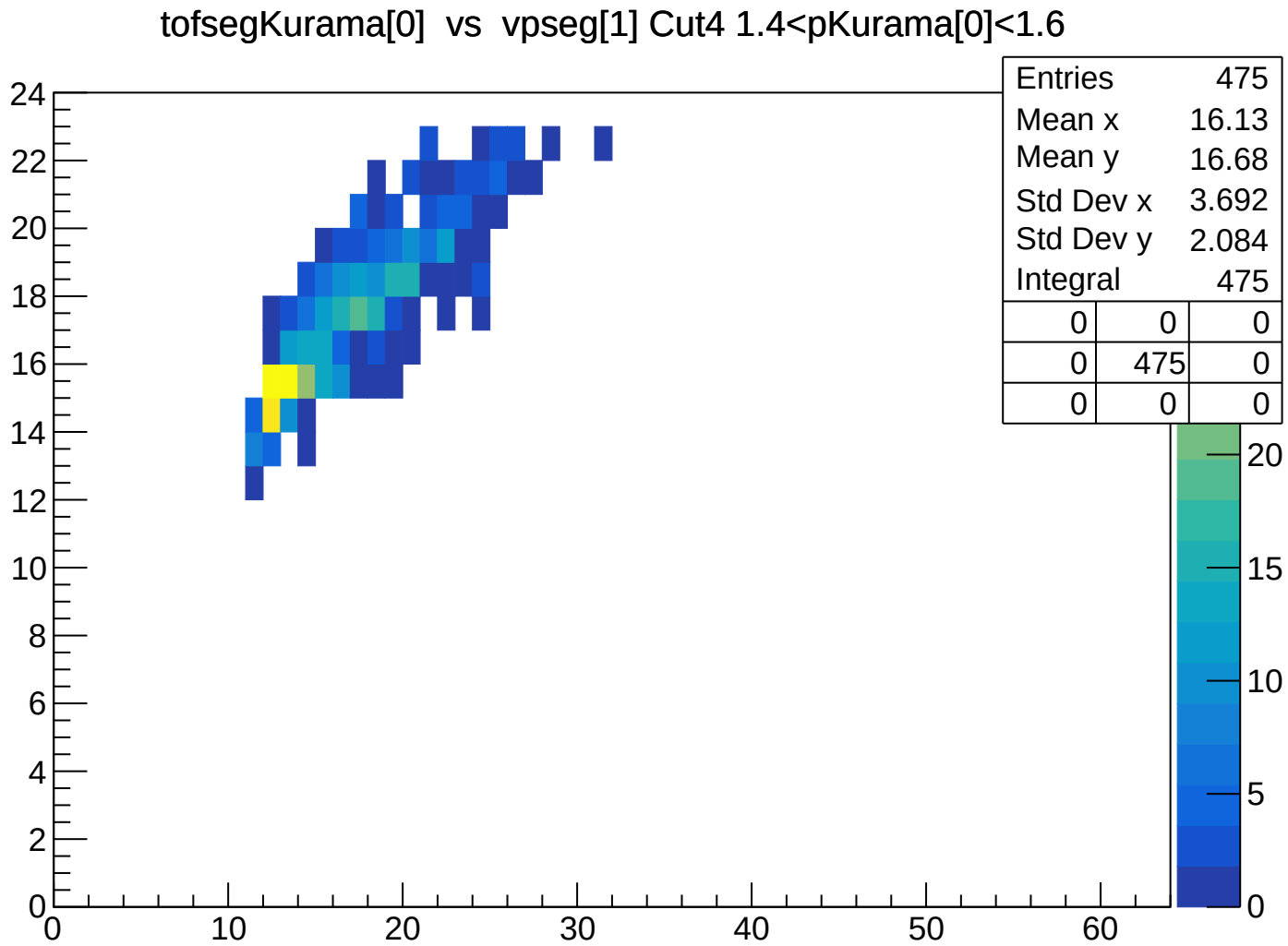

TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x 18.31
Mean y 18.24
Std Dev x 4.767
Std Dev y 2.715
Integral 2.899e+04
0 1653 0
0 28992 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
200
400
600
800
1000

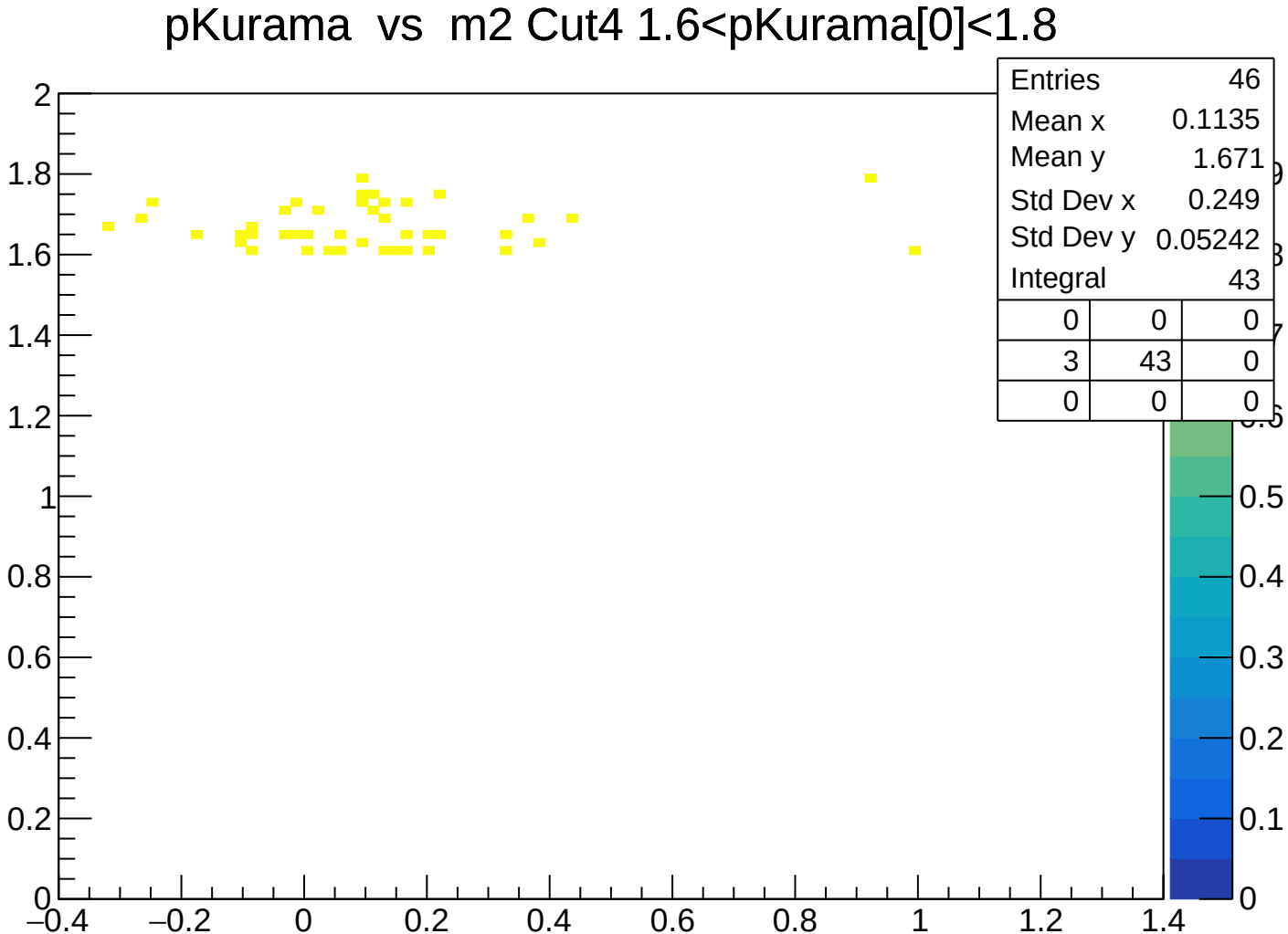

tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x 18.85
Mean y 17.92
Std Dev x 5.203
Std Dev y 2.551
Integral 3.064e+04
0 0 0
0 30645 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
200
400
600
800
1000

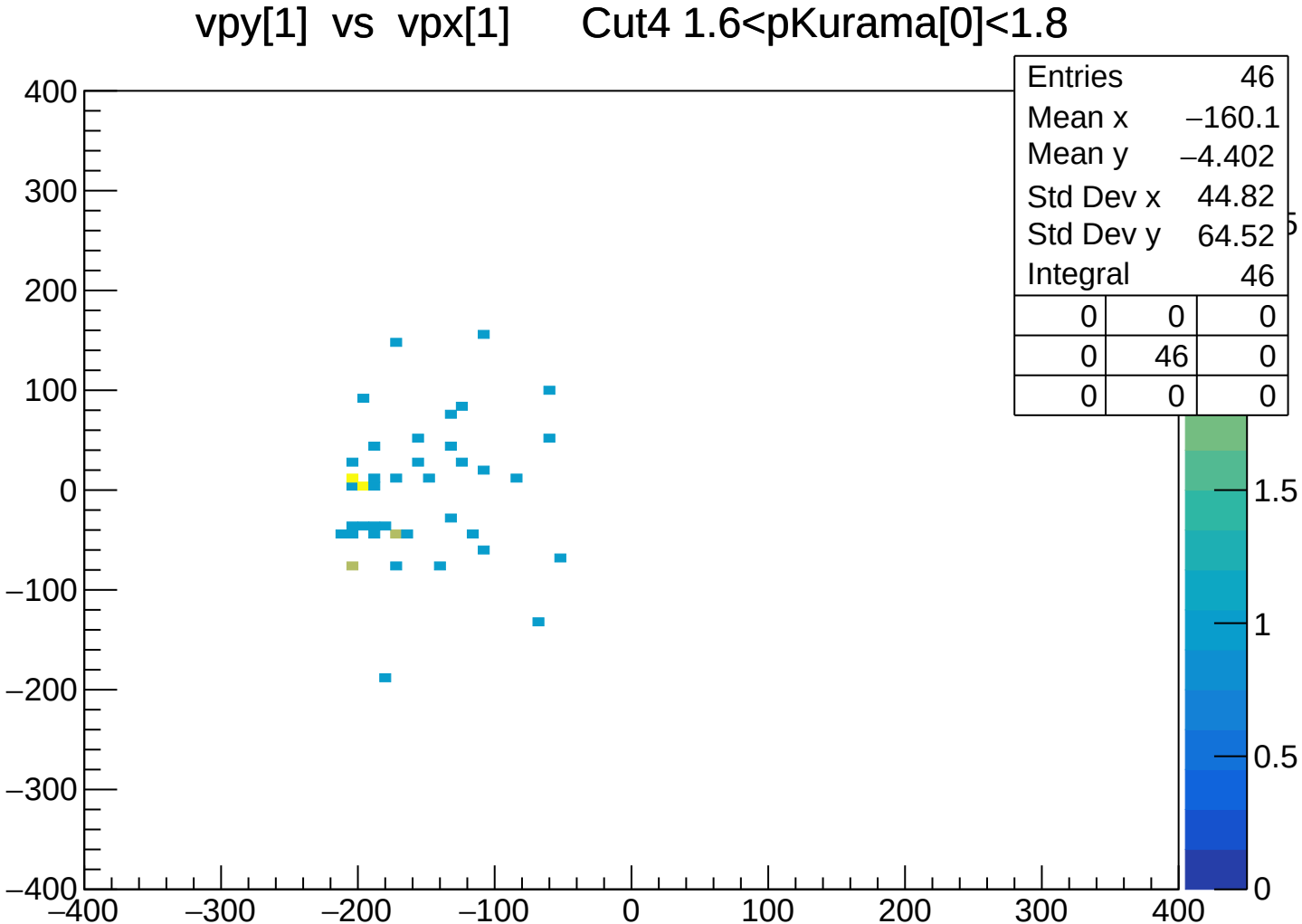

pKurama vs m2 Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 0.08004
Mean y 1.441
Std Dev x 0.1981
Std Dev y 0.04196
Integral 434
0 0 0
23 434 18
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
8
6
4
2
0

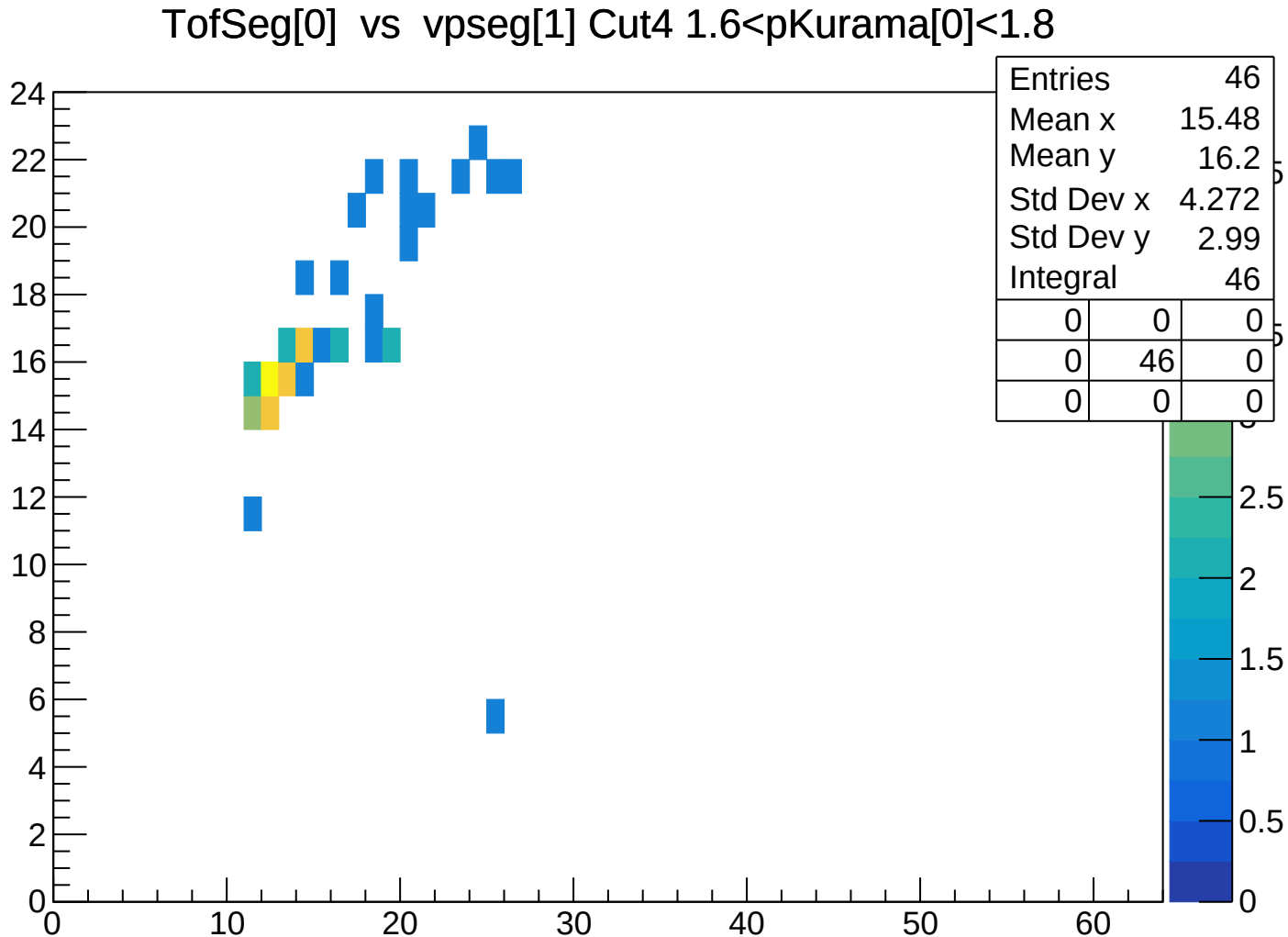

vpy[1] vs vpx[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x –154
Mean y –21.6
Std Dev x 38.7
Std Dev y 65.11
Integral 475
0 0 0
0 475 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
4
3
2
1
0

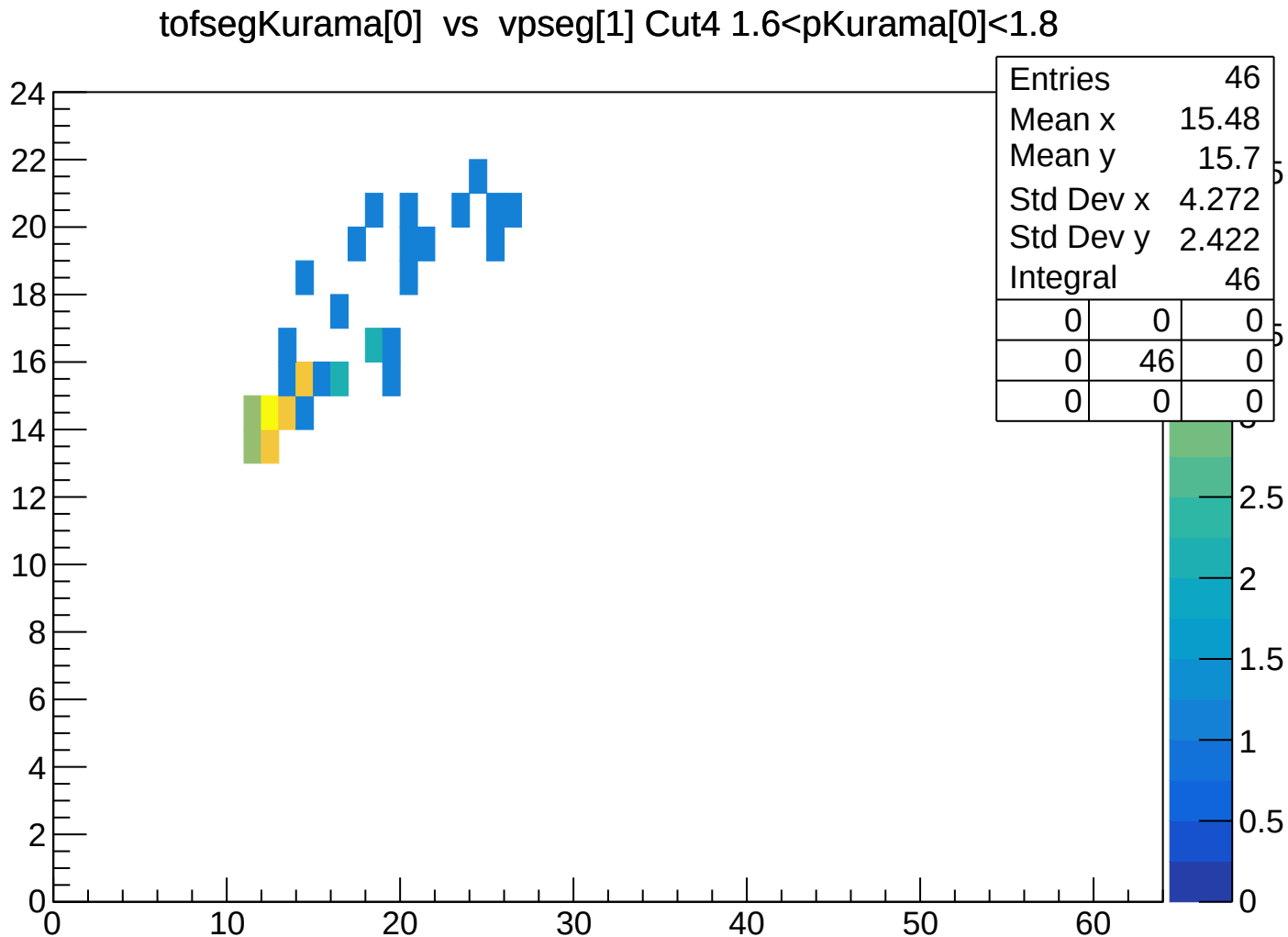

TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 16.13
Mean y 17.3
Std Dev x 3.692
Std Dev y 2.516
Integral 475
0 0 0
0 475 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20

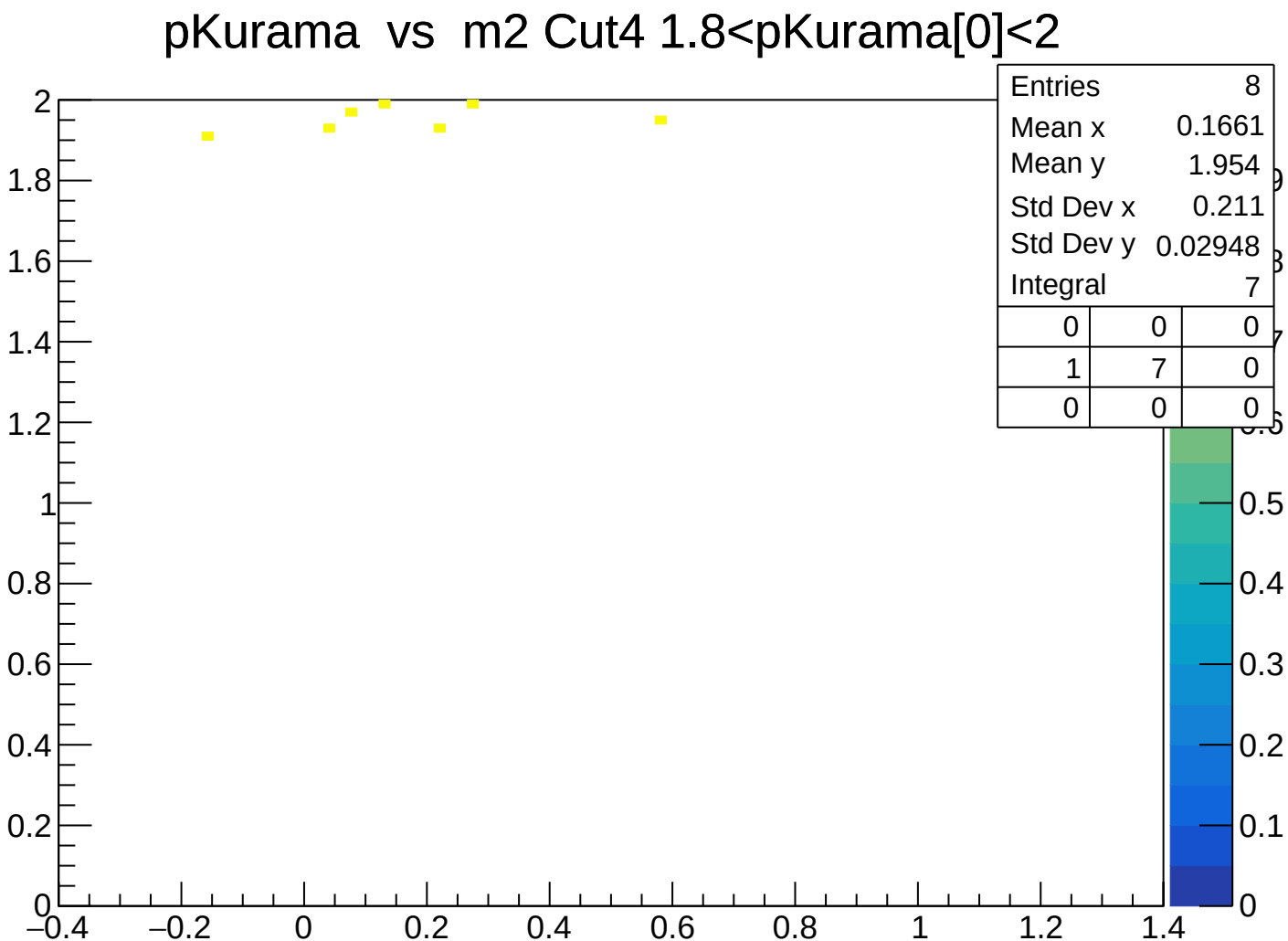

tofsegKurama[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 16.13
Mean y 16.68
Std Dev x 3.692
Std Dev y 2.084
Integral 475
0 0 0
0 475 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20

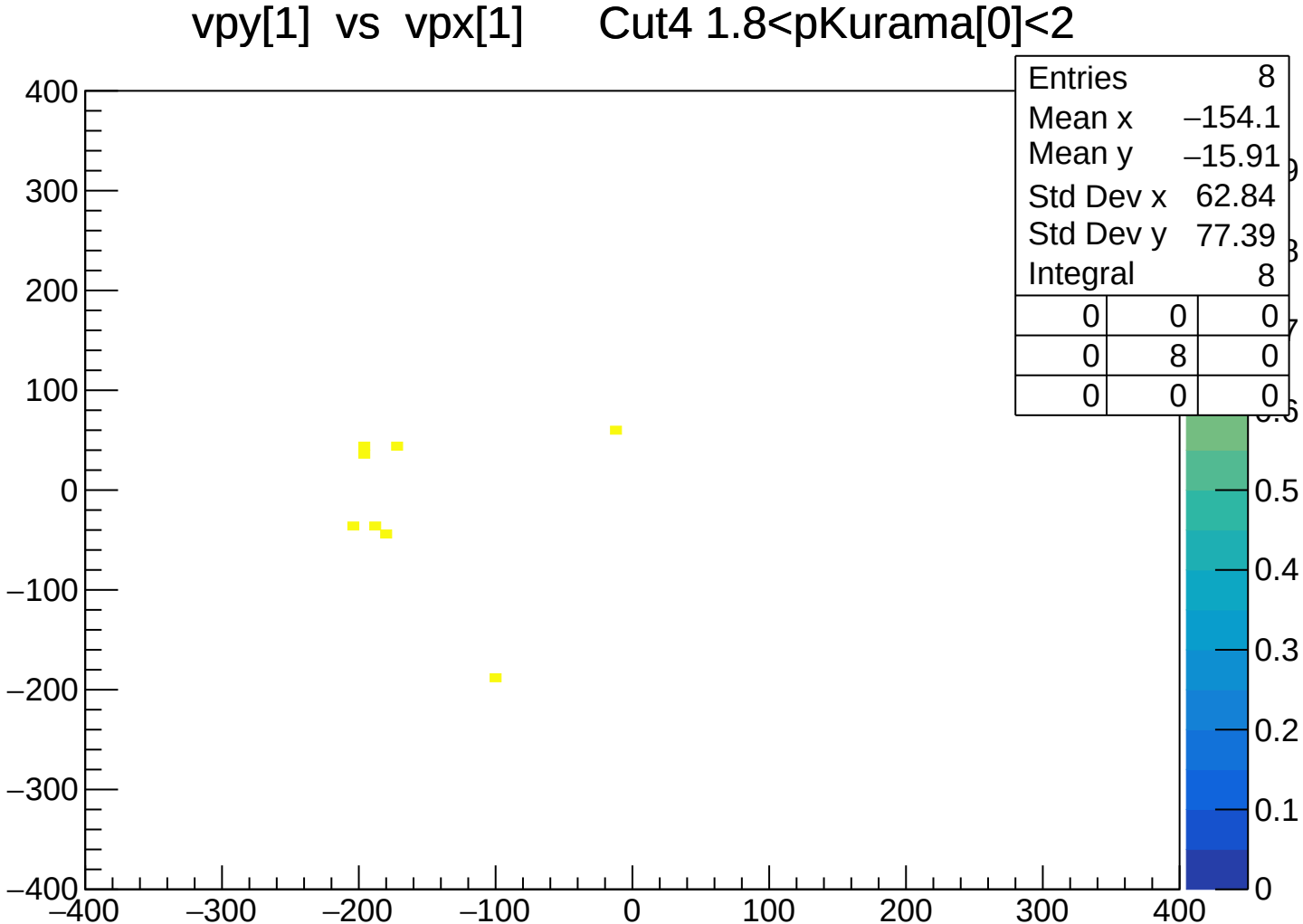

pKurama vs m2 Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x 0.1135
Mean y 1.671
Std Dev x 0.249
Std Dev y 0.05242
Integral 43
0 0 0
3 43 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0

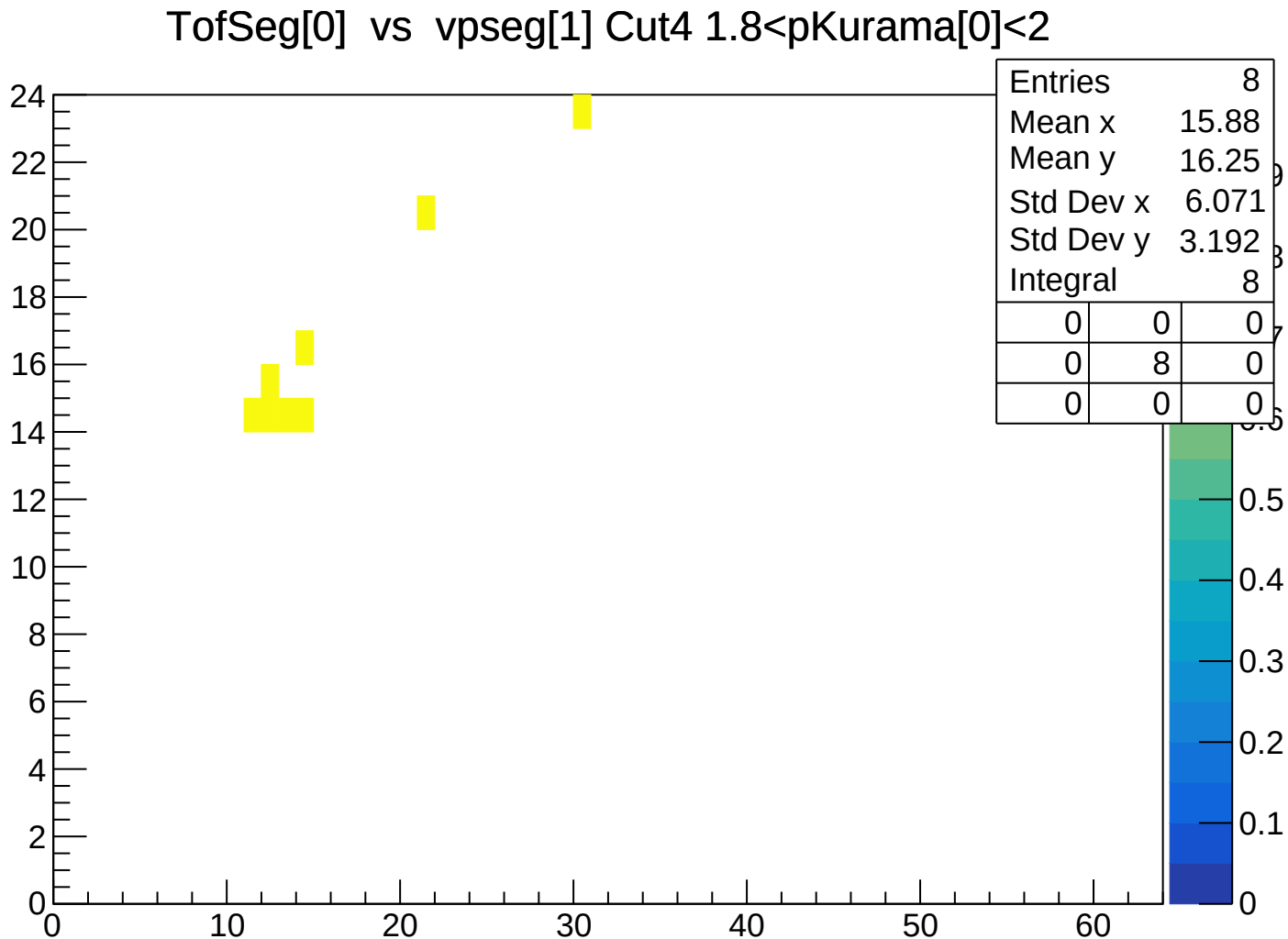

vpy[1] vs vpx[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x −160.1
Mean y −4.402
Std Dev x 44.82
Std Dev y 64.52
Integral 46
0 0 0
0 46 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
1.5
1
0.5
0


TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x 15.48
Mean y 16.2
Std Dev x 4.272
Std Dev y 2.99
Integral 46
0 0 0
0 46 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
0.5
1
1.5
2
2.5

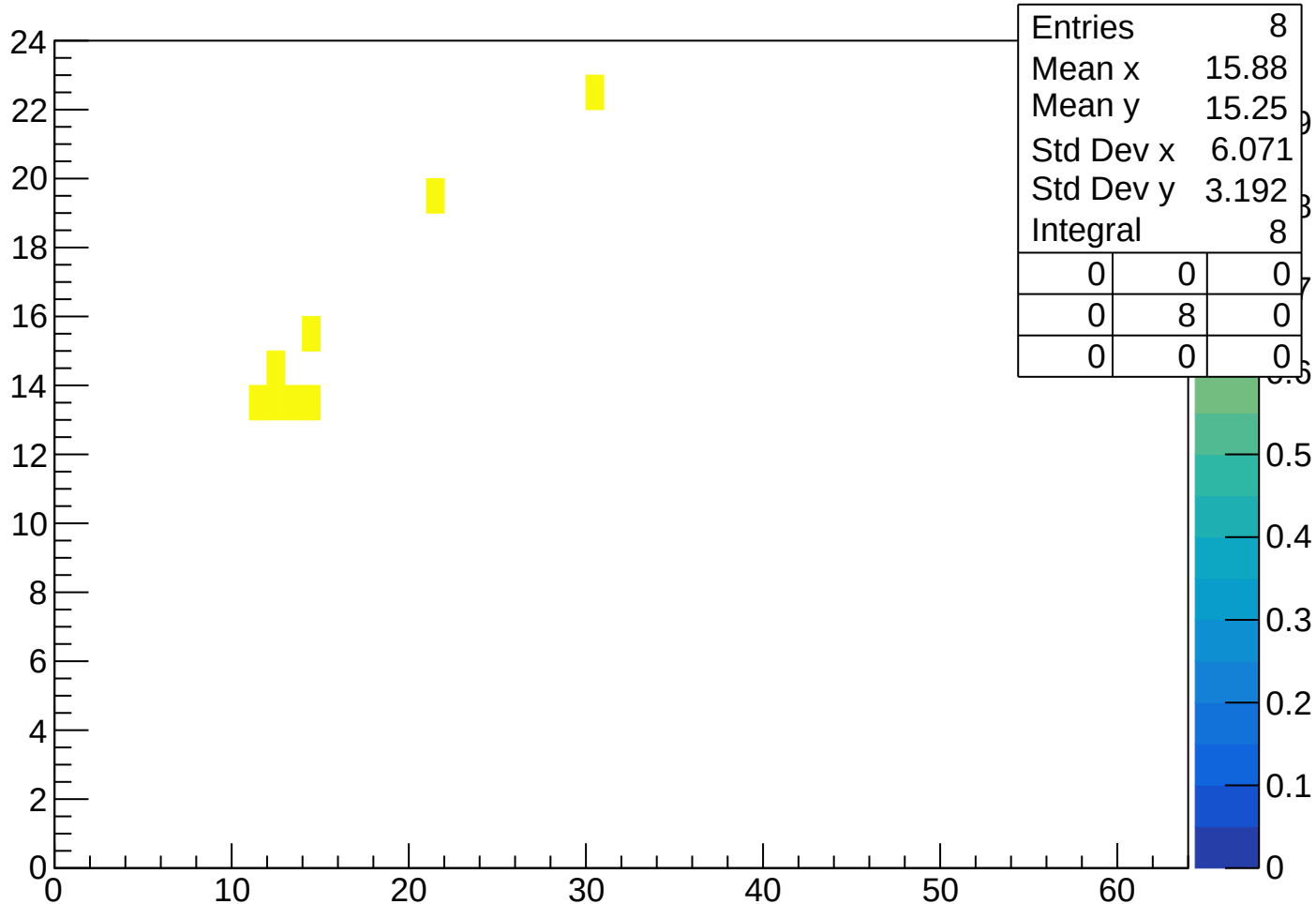

tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x 15.48
Mean y 15.7
Std Dev x 4.272
Std Dev y 2.422
Integral 46
0 0 0
0 46 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.5
1
1.5
2
2.5

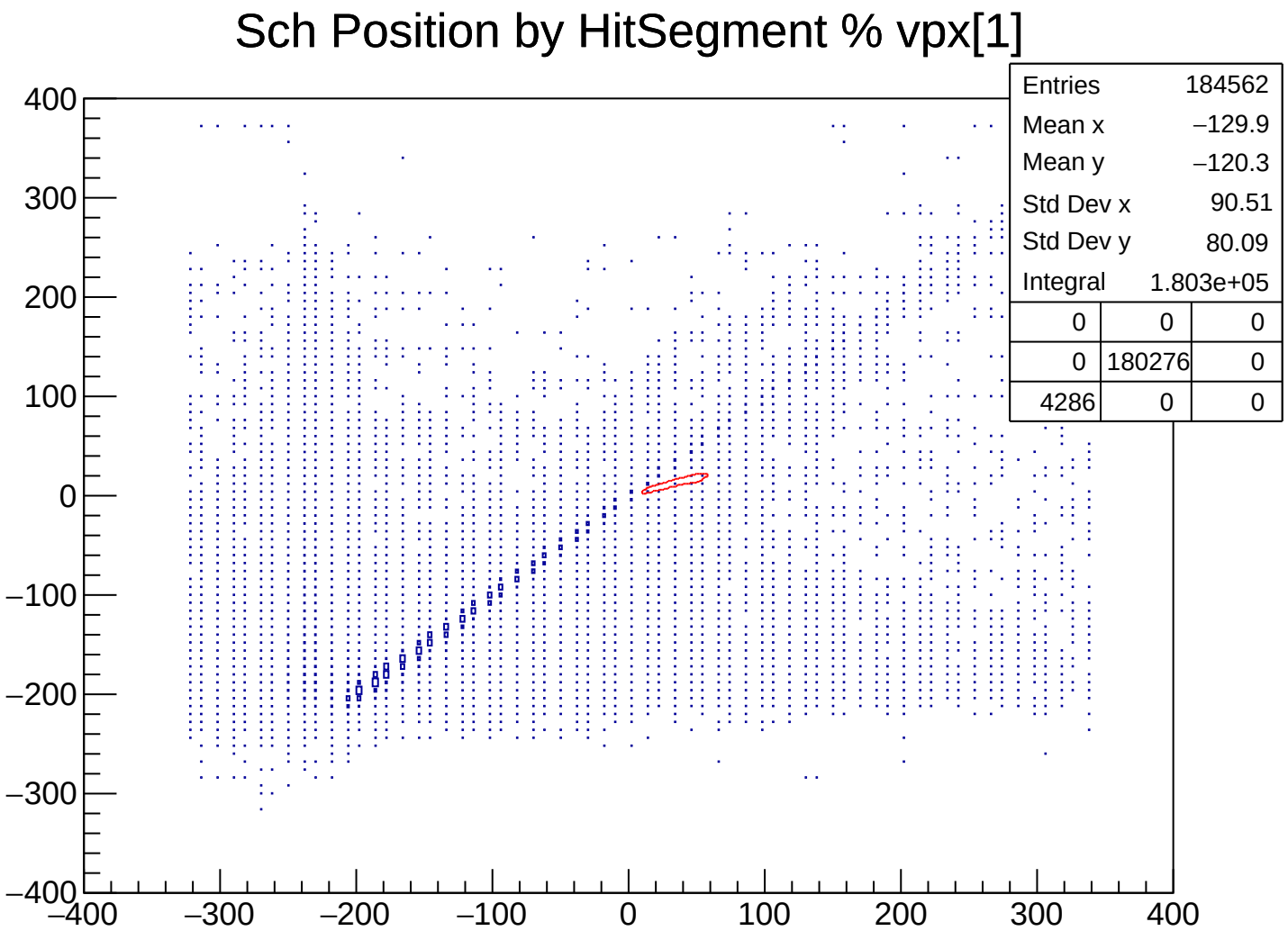

pKurama vs m2 Cut4 1.8<pKurama[0]<2
Entries 8
Mean x 0.1661
Mean y 1.954
Std Dev x 0.211
Std Dev y 0.02948
Integral 7
0 0 0
1 7 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0


vpy[1] vs vpx[1] Cut4 1.8<pKurama[0]<2
Entries 8
Mean x –154.1
Mean y –15.91
Std Dev x 62.84
Std Dev y 77.39
Integral 8
0 0 0
0 8 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
0.5
0.4
0.3
0.2
0.1
0

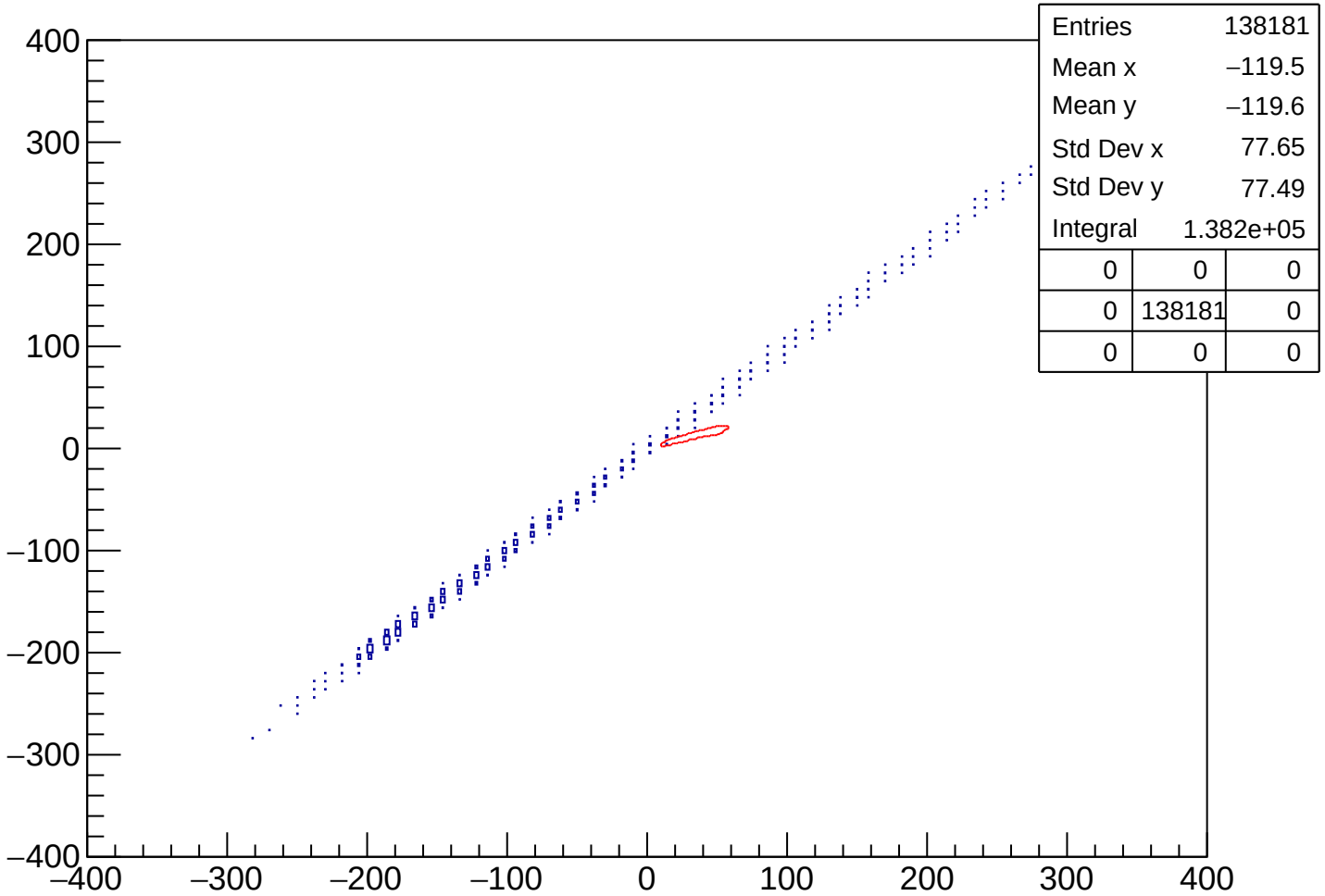

TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 8
Mean x 15.88
Mean y 16.25
Std Dev x 6.071
Std Dev y 3.192
Integral 8
0 0 0
0 8 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

tofsegKurama[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2

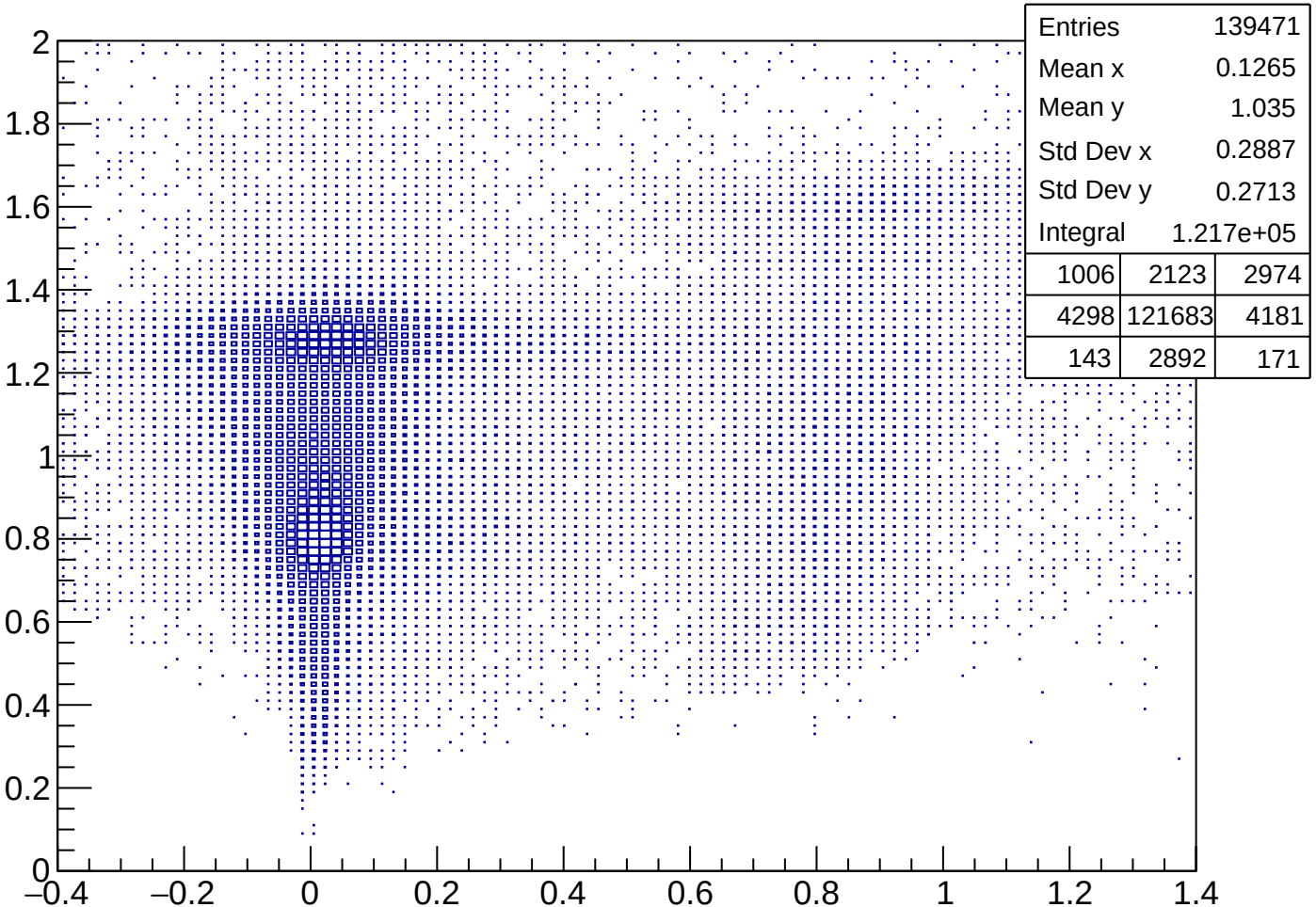


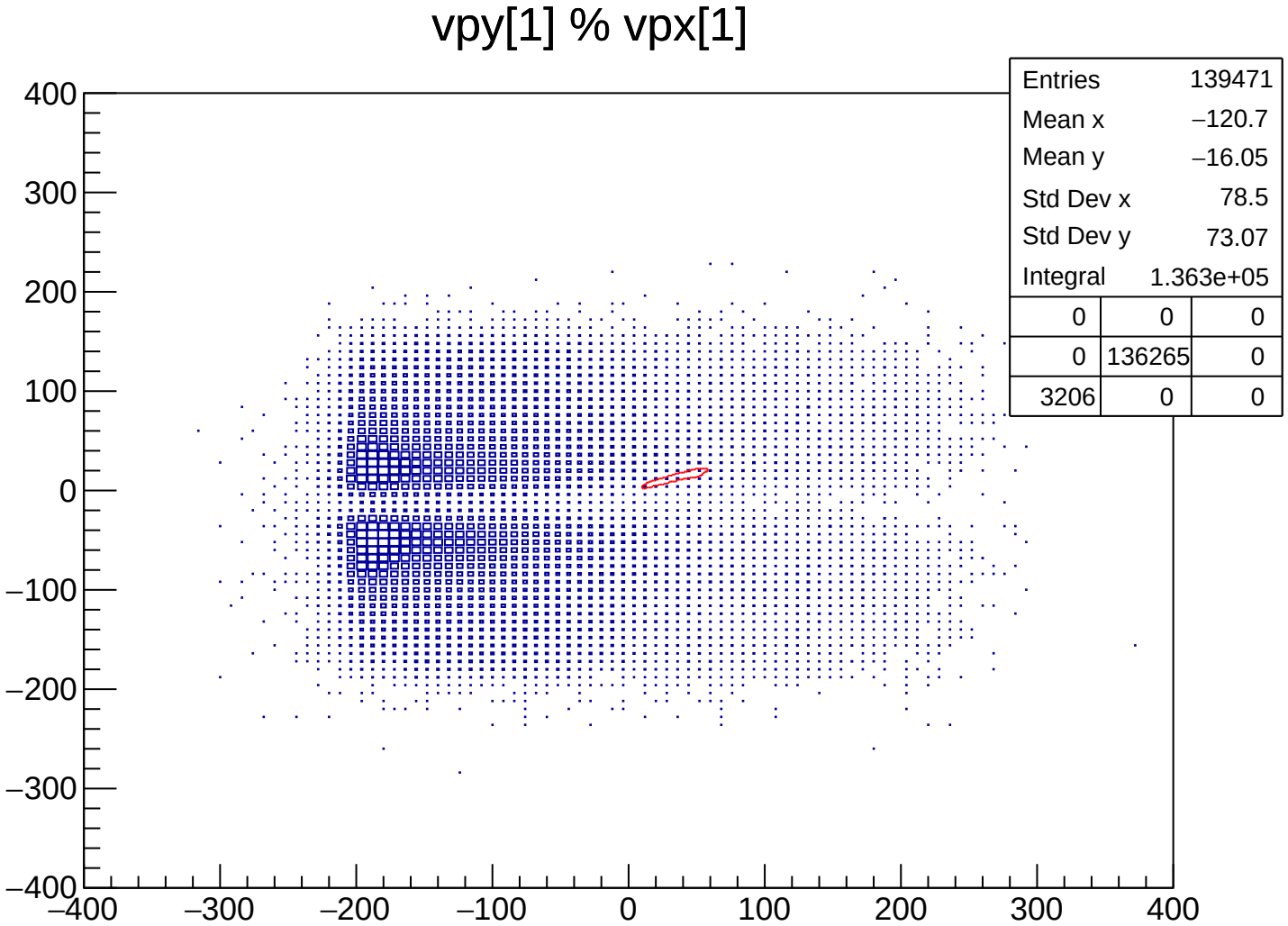

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

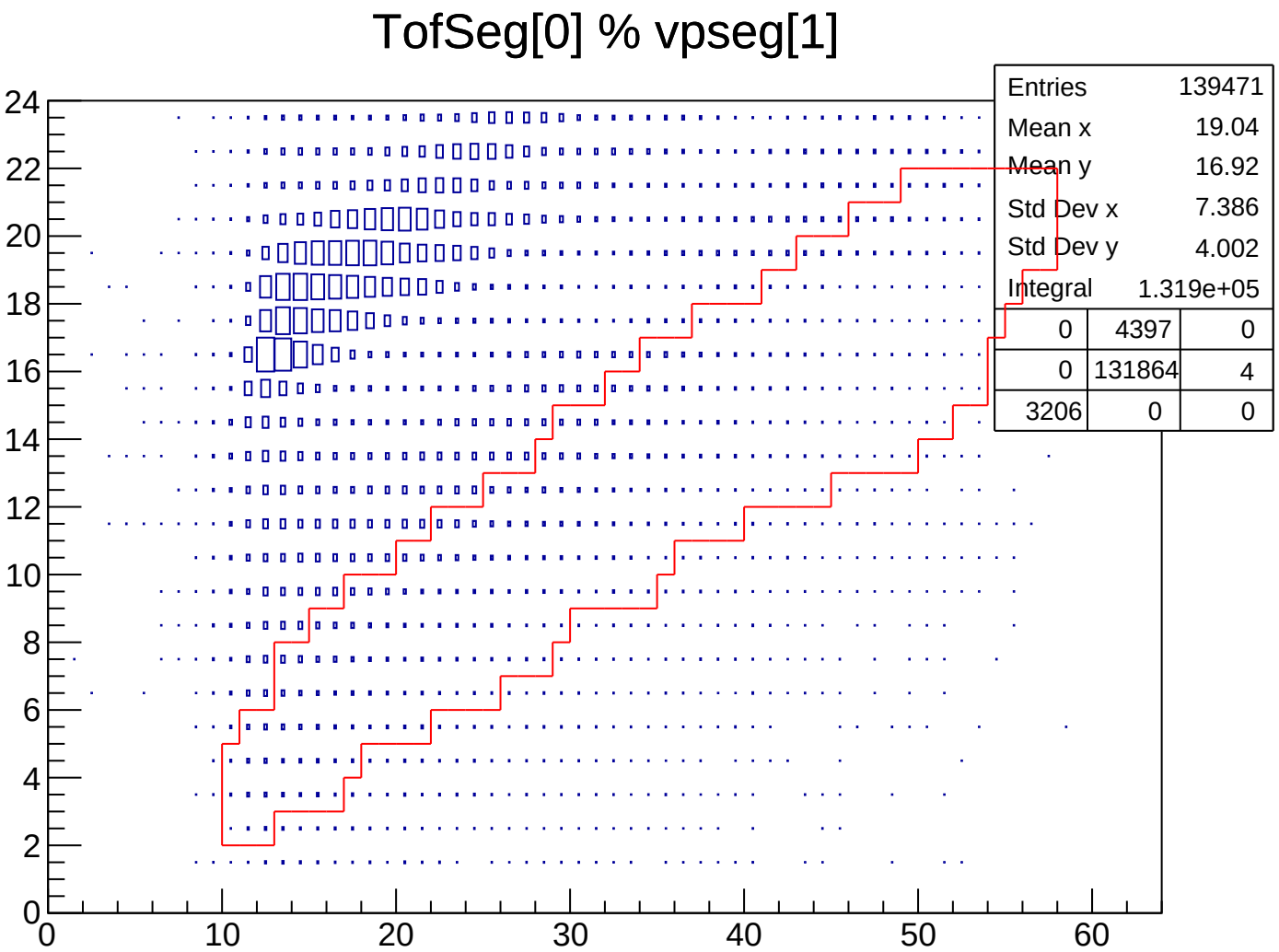
Sch Position by HitSegment % vpx[1] Cut1

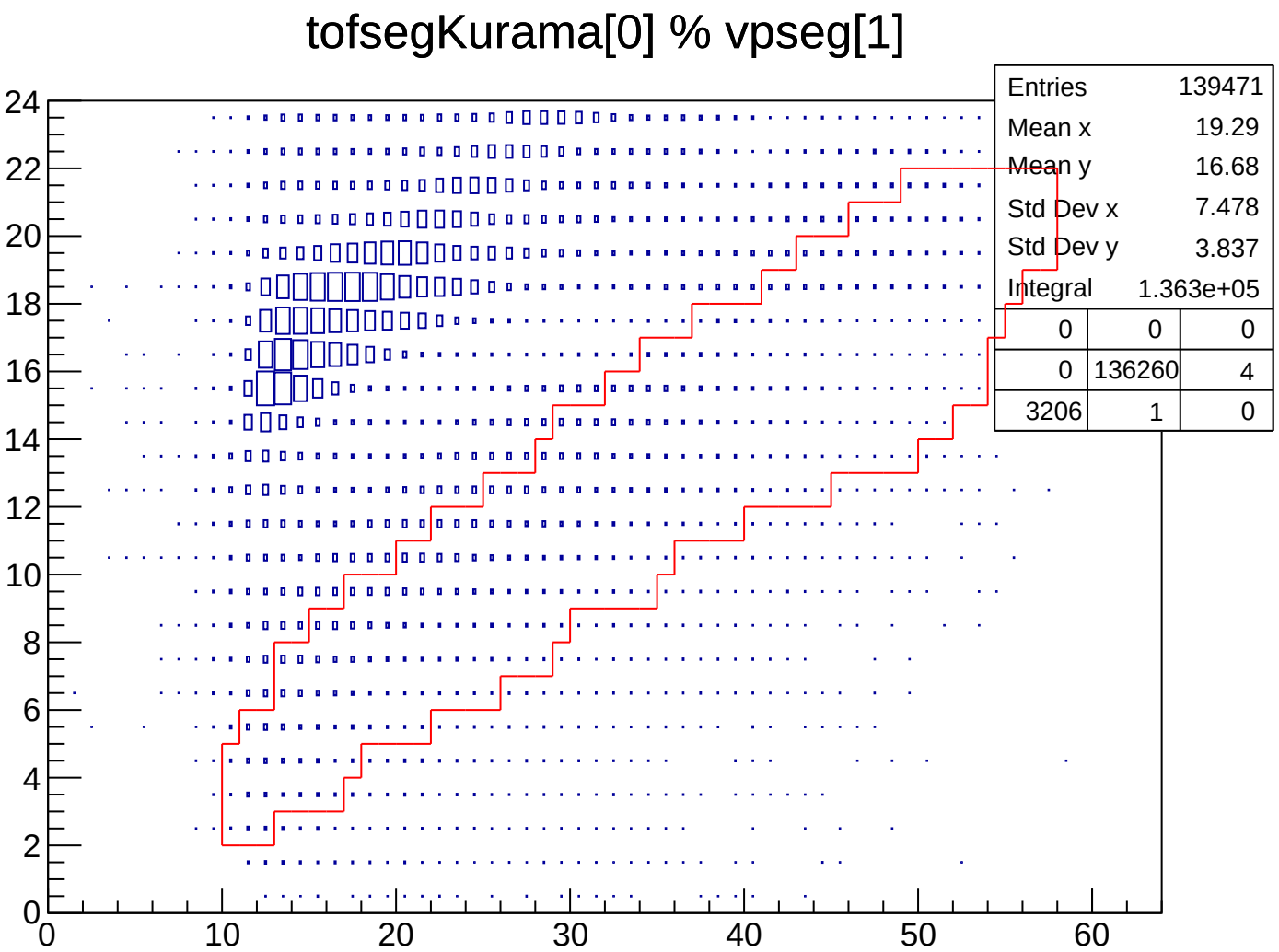


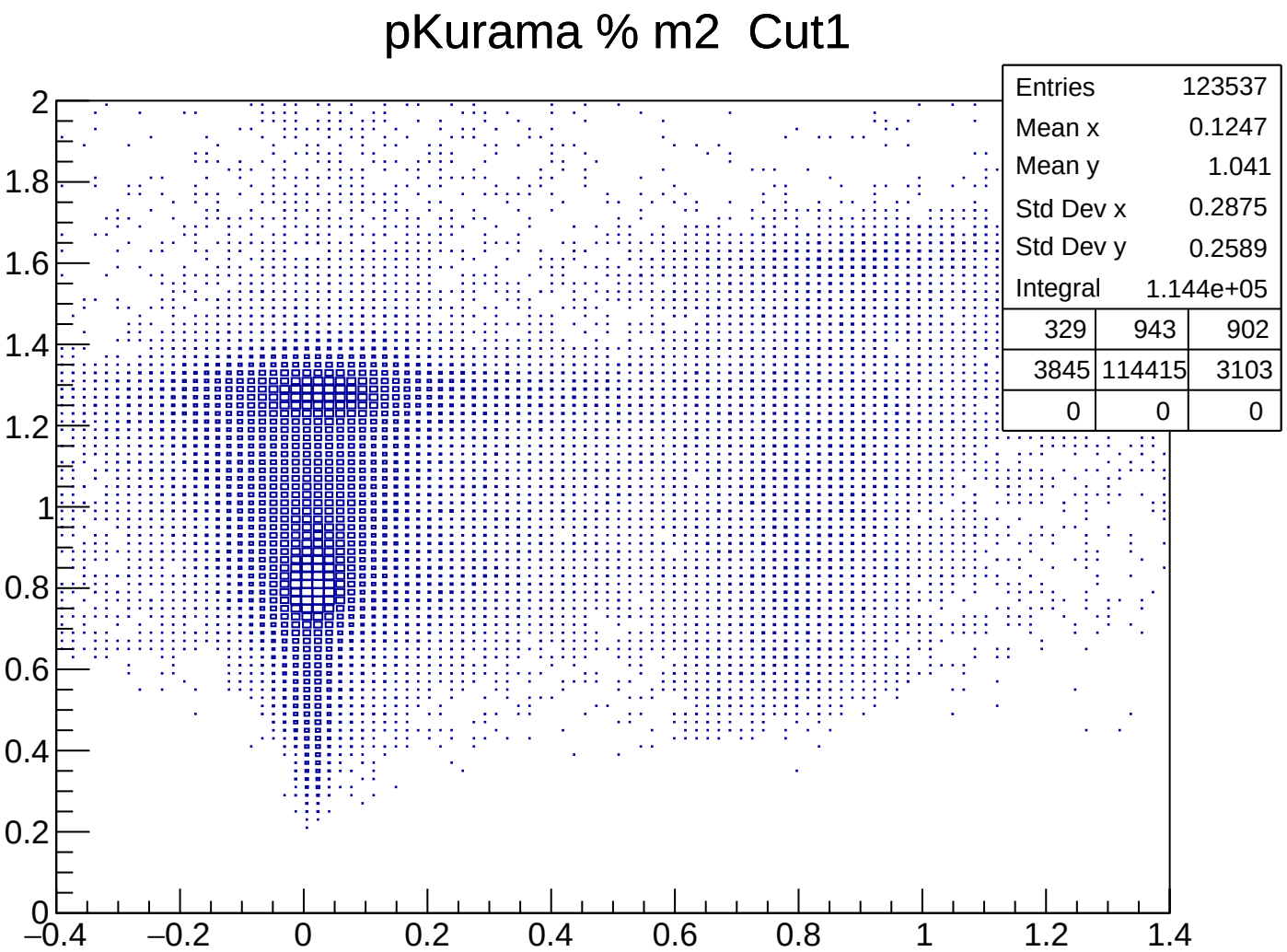
pKurama % m2

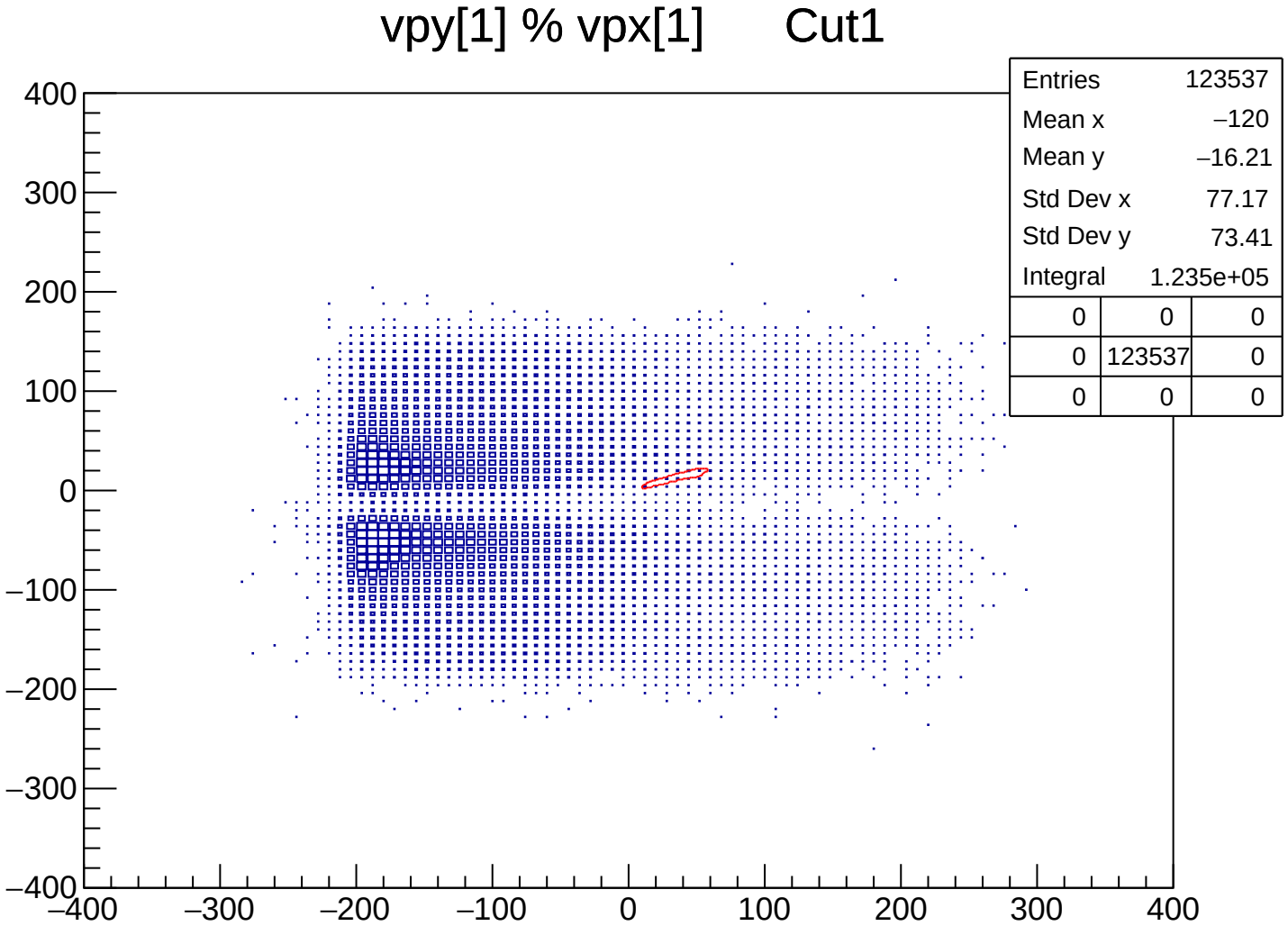

Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

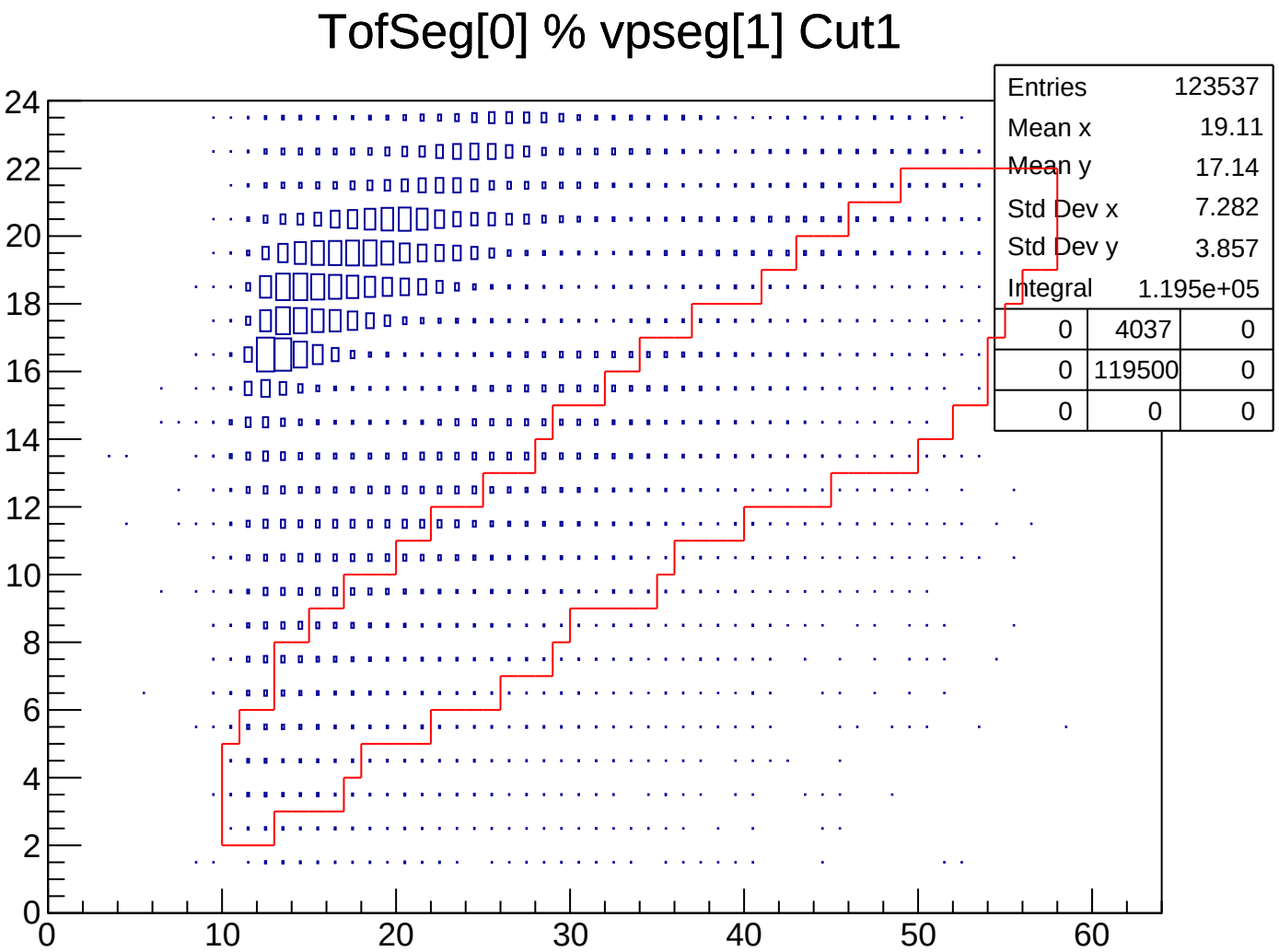

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

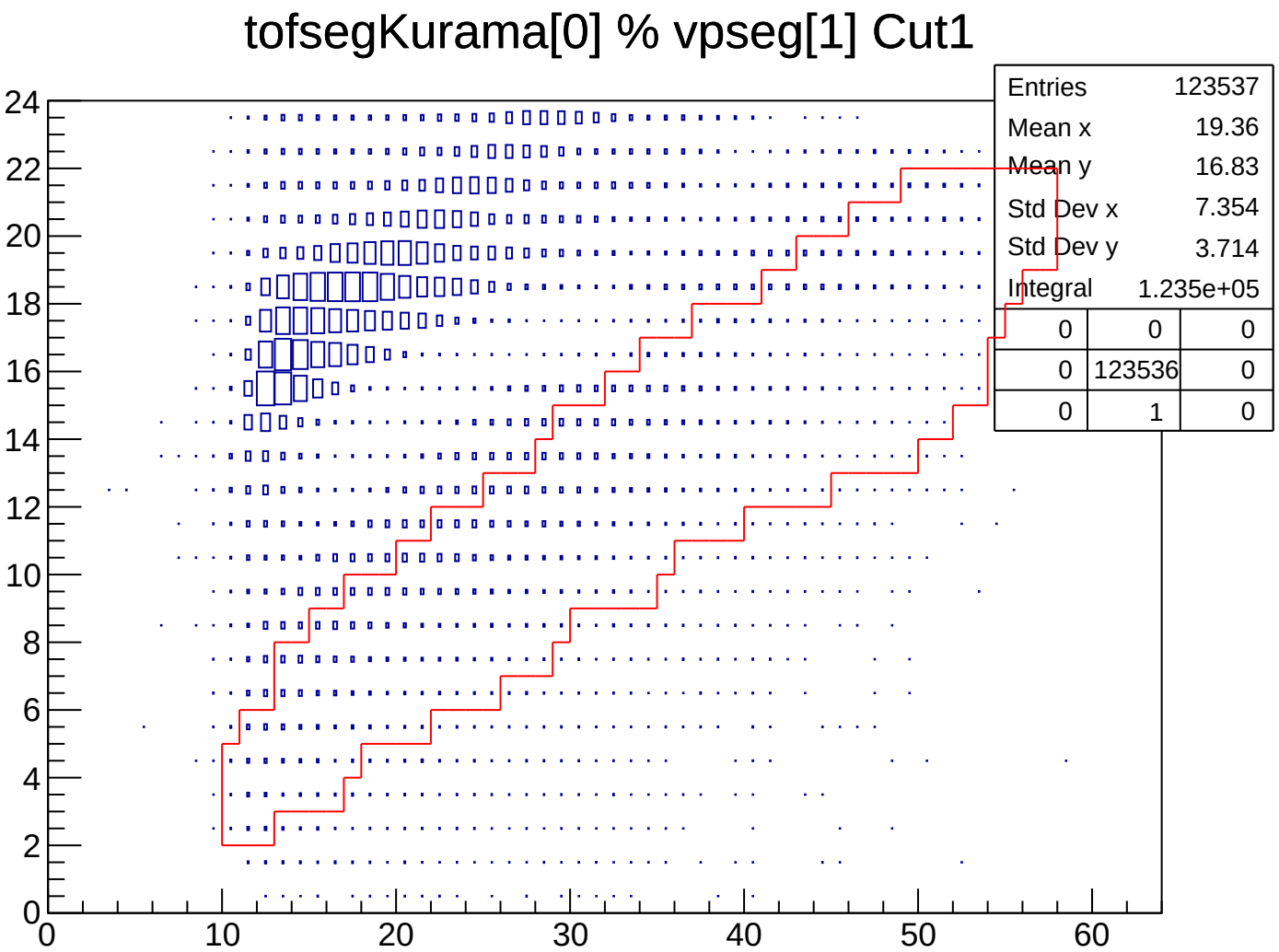

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.04
Mean y 16.92
Std Dev x 7.386
Std Dev y 4.002
Integral 1.319e+05
0 4397 0
0 131864 4
3206 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

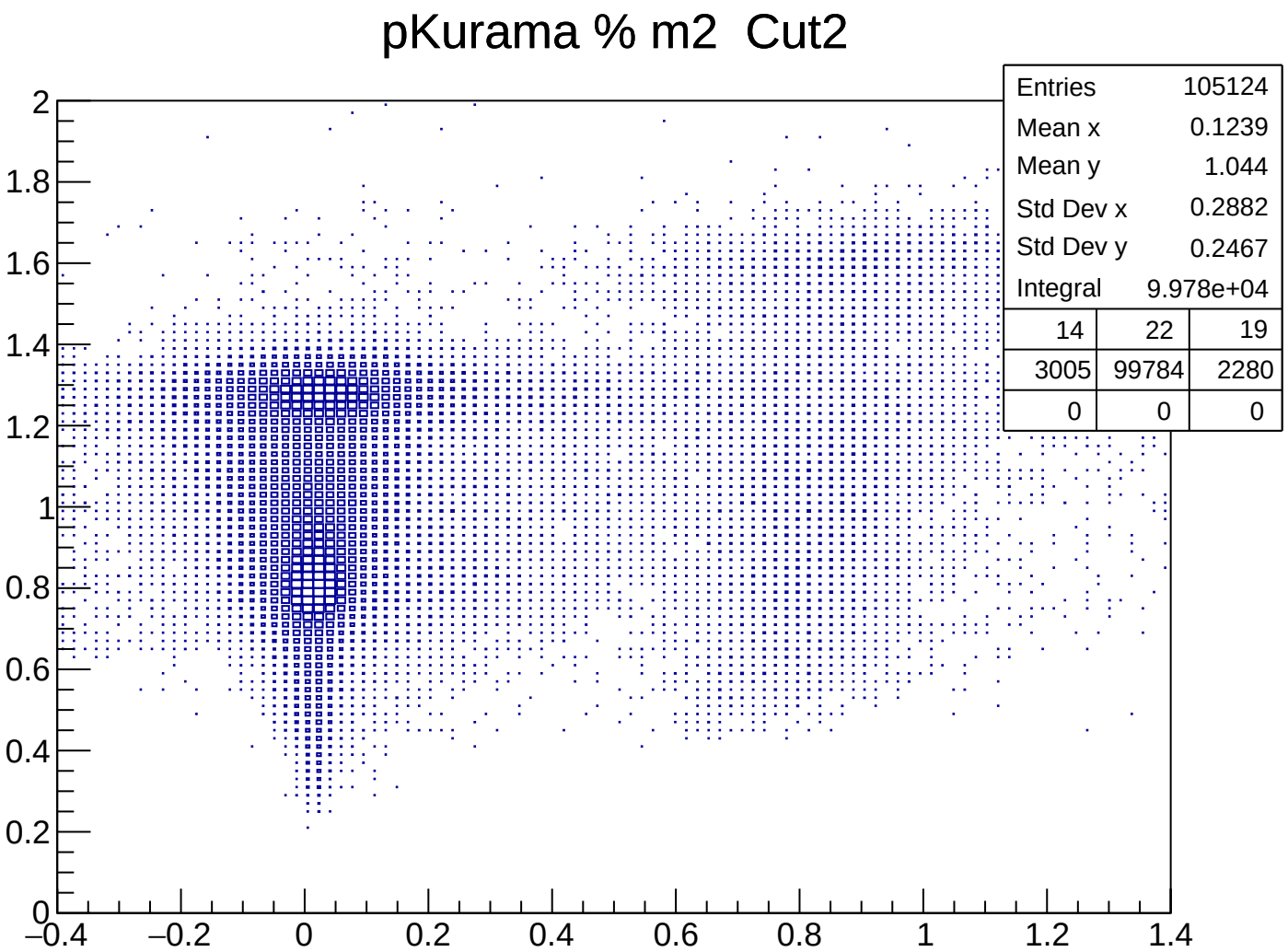

tofsegKurama[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 16.68
Std Dev x 7.478
Std Dev y 3.837
Integral 1.363e+05
0 0 0
0 136260 4
3206 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

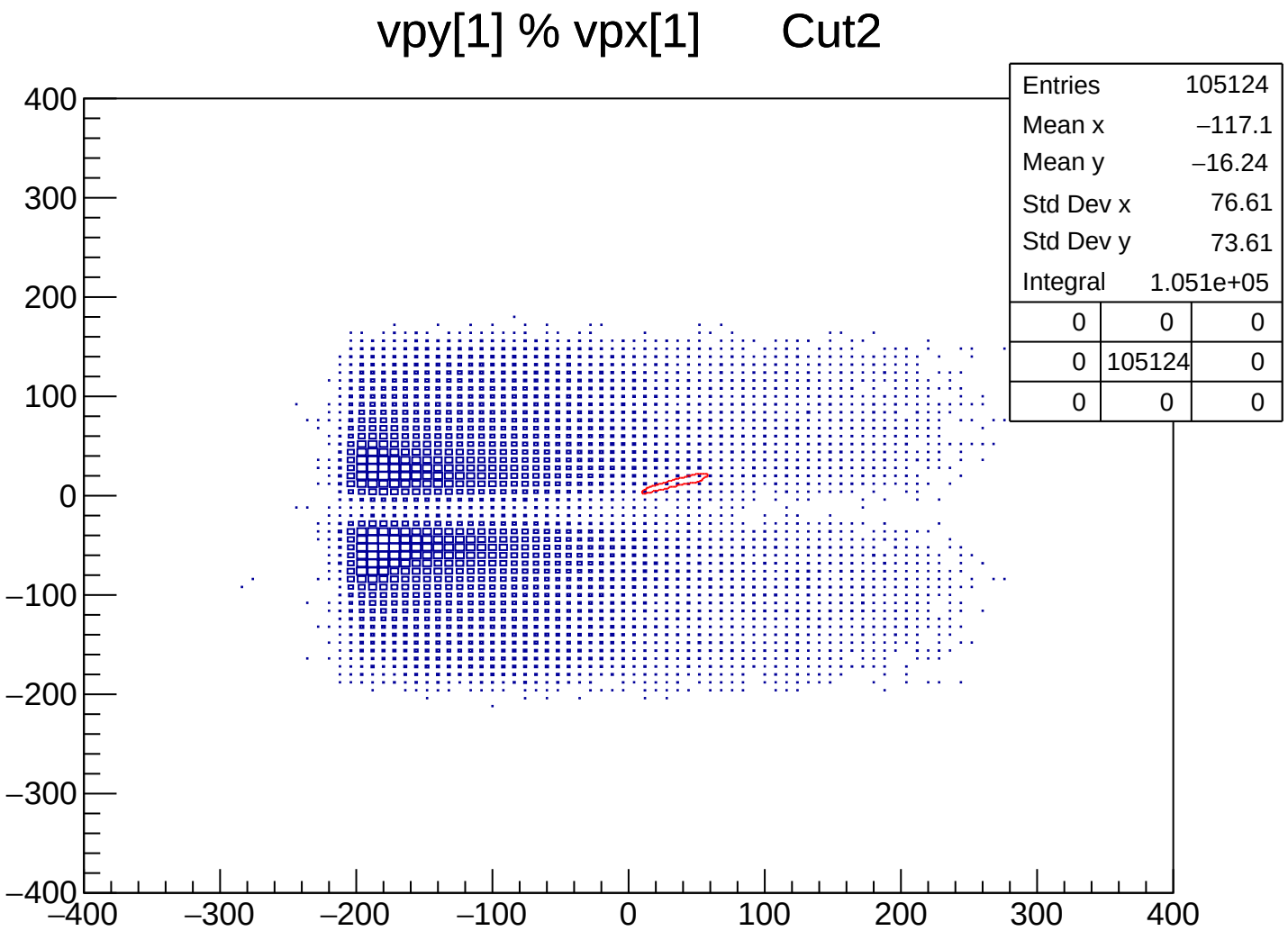

pKurama % m2 Cut1
Entries 123537
Mean x 0.1247
Mean y 1.041
Std Dev x 0.2875
Std Dev y 0.2589
Integral 1.144e+05
329 943 902
3845 114415 3103
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

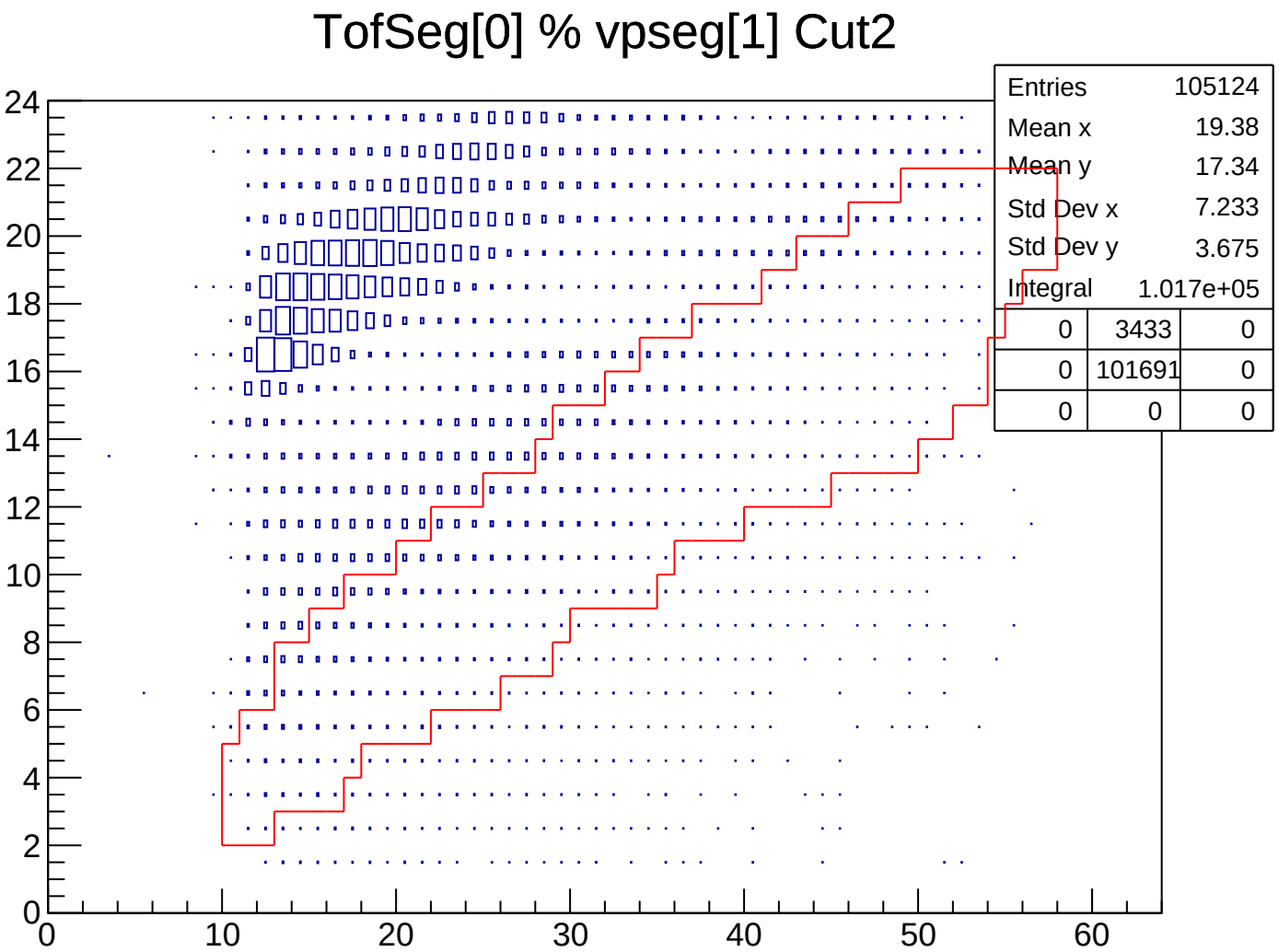

vpy[1] % vpx[1] Cut1
Entries 123537
Mean x –120
Mean y –16.21
Std Dev x 77.17
Std Dev y 73.41
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

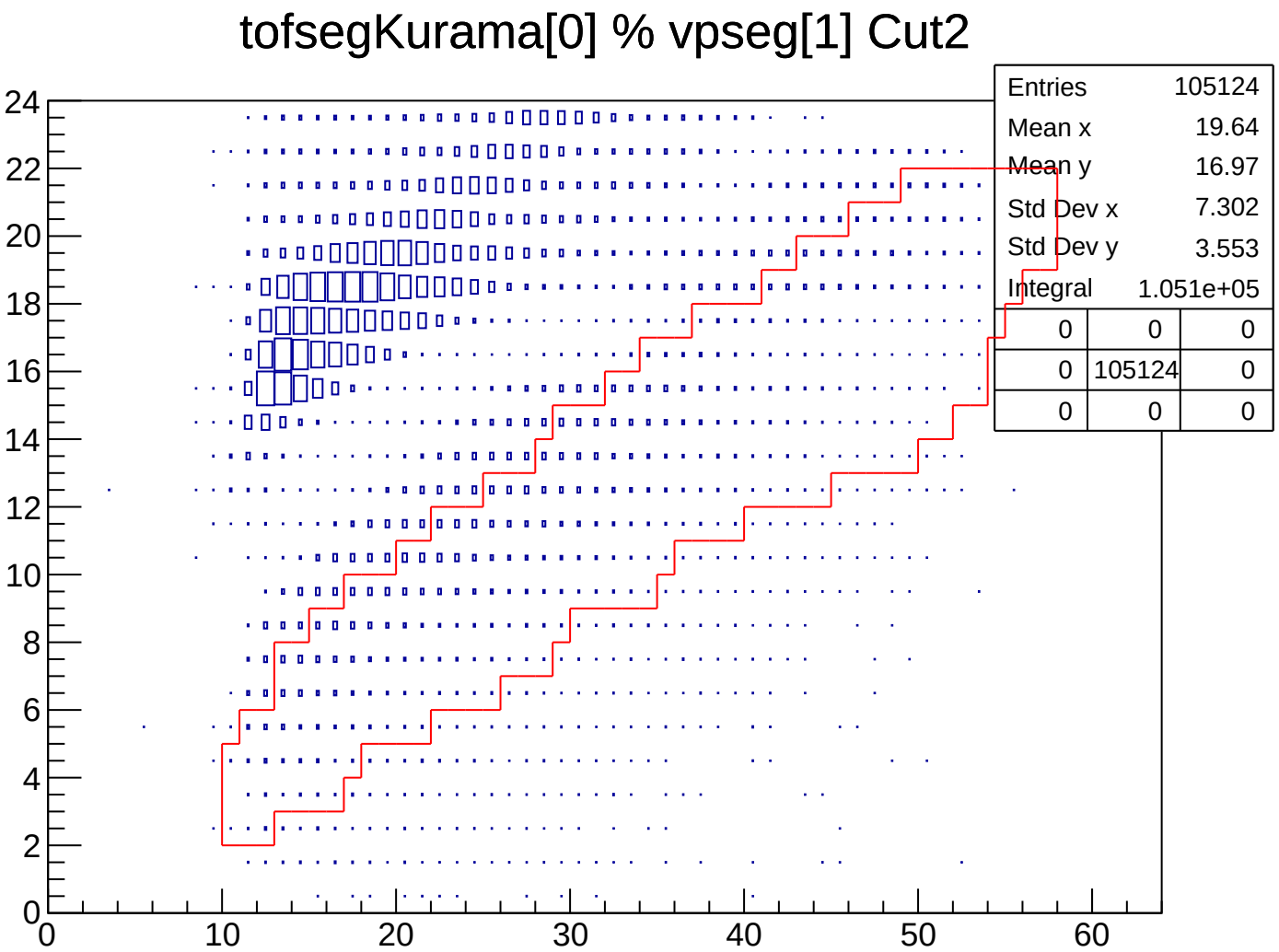

TofSeg[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.11
Mean y 17.14
Std Dev x 7.282
Std Dev y 3.857
Integral 1.195e+05
0 4037 0
0 119500 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Cut1
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

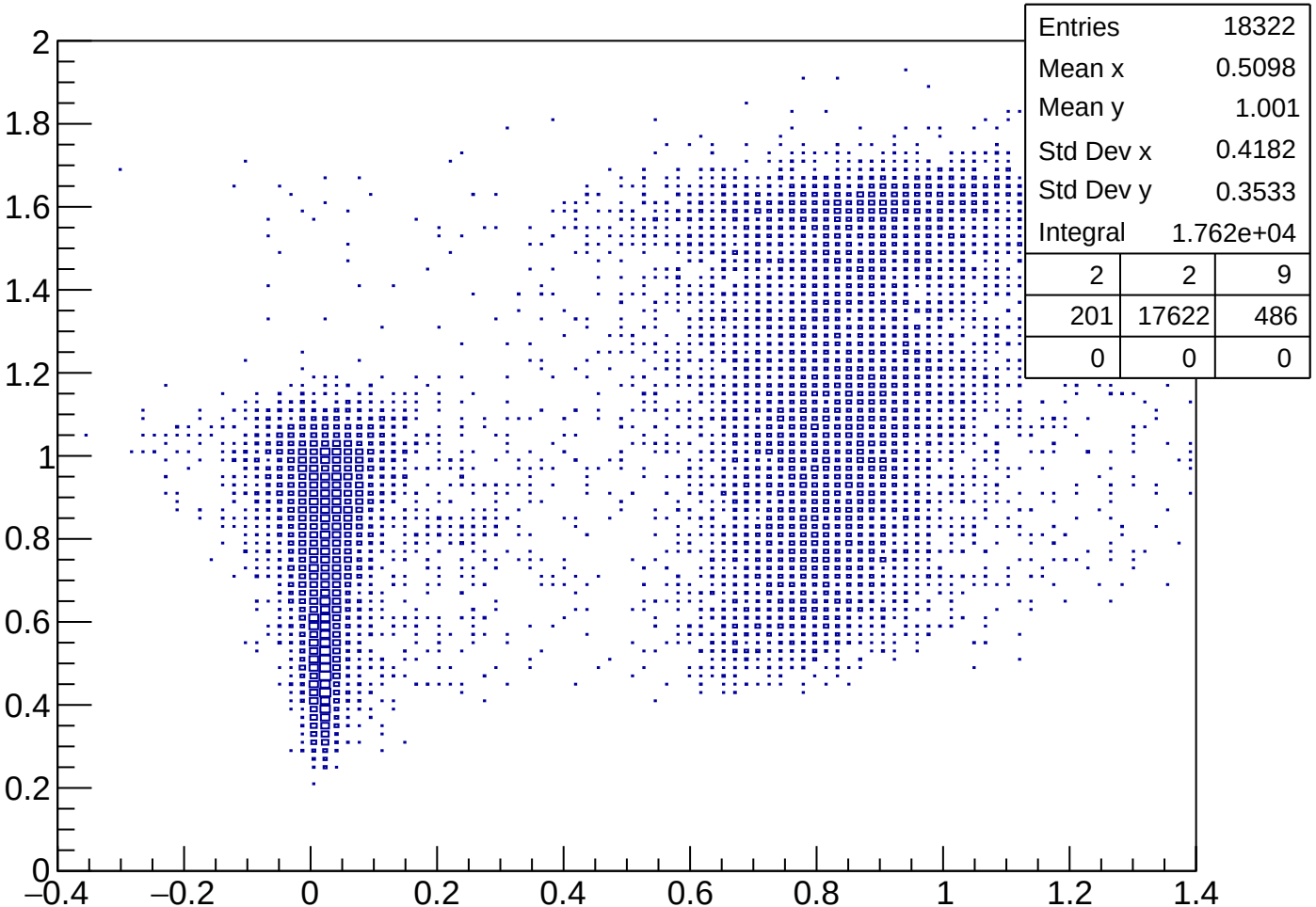

pKurama % m2 Cut2
Entries 105124
Mean x 0.1239
Mean y 1.044
Std Dev x 0.2882
Std Dev y 0.2467
Integral 9.978e+04
14 22 19
3005 99784 2280
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

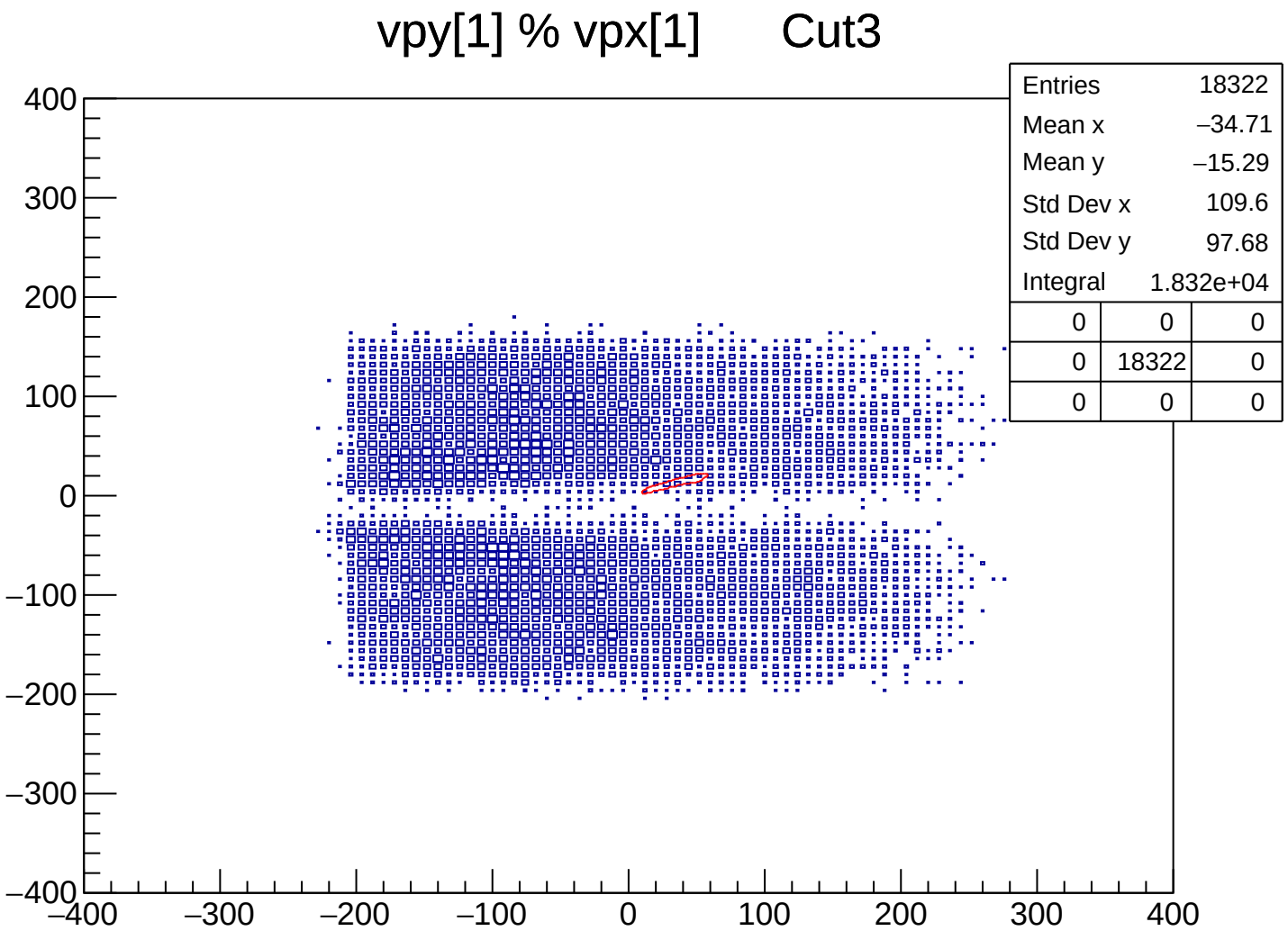

vpy[1] % vpx[1] Cut2
Entries 105124
Mean x –117.1
Mean y –16.24
Std Dev x 76.61
Std Dev y 73.61
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

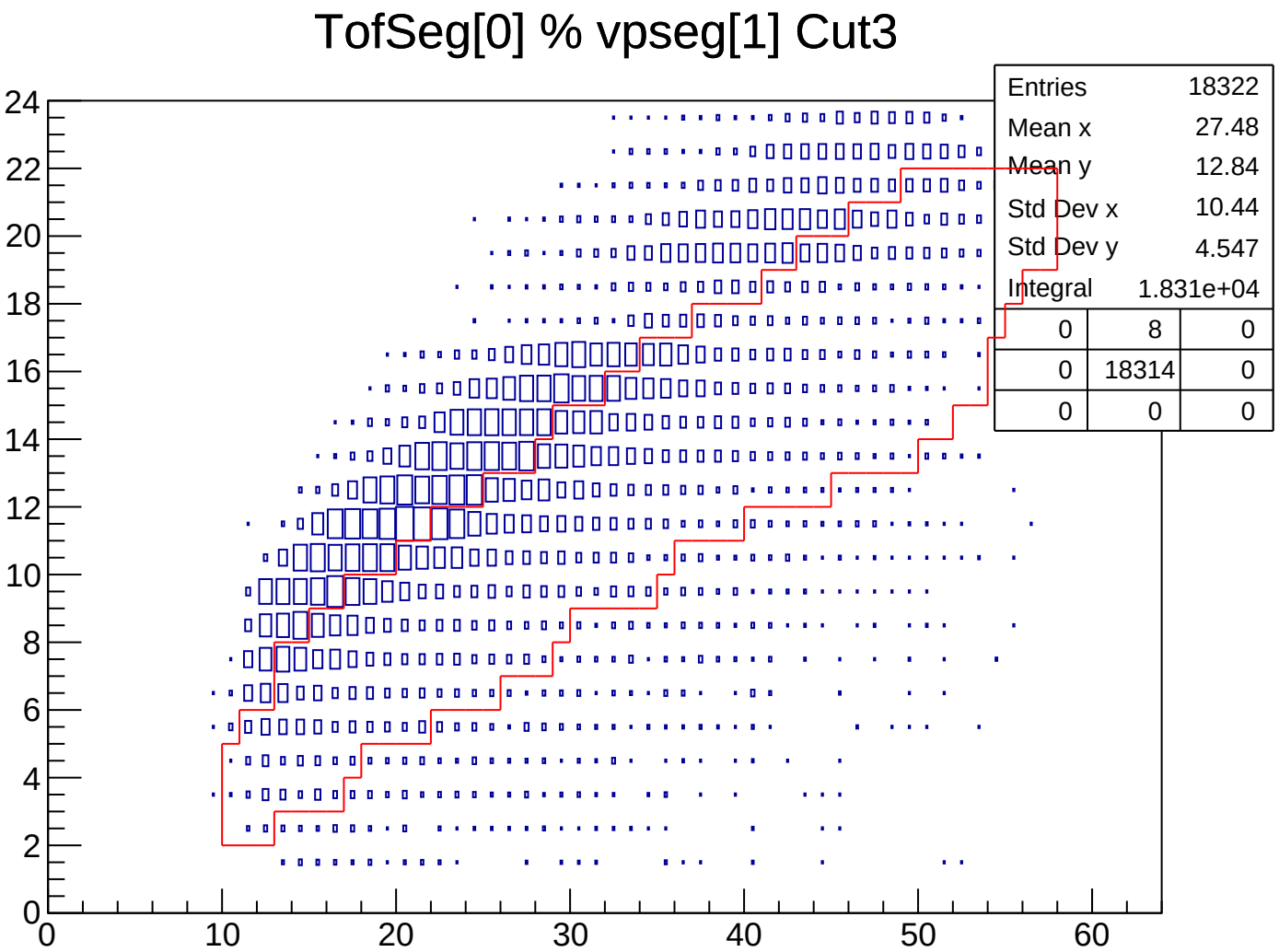

TofSeg[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.38
Mean y 17.34
Std Dev x 7.233
Std Dev y 3.675
Integral 1.017e+05
0 3433 0
0 101691 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

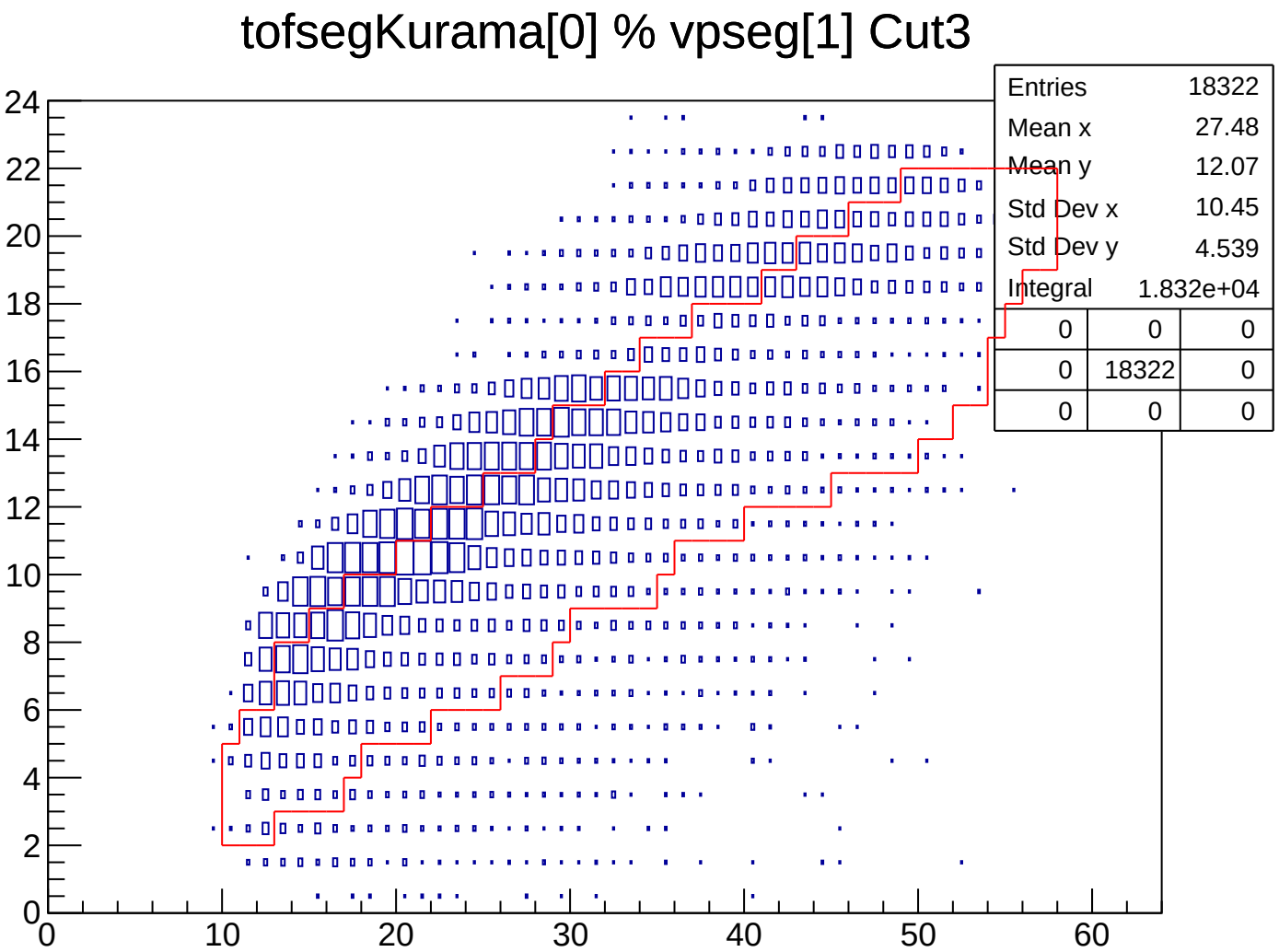

tofsegKurama[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 16.97
Std Dev x 7.302
Std Dev y 3.553
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

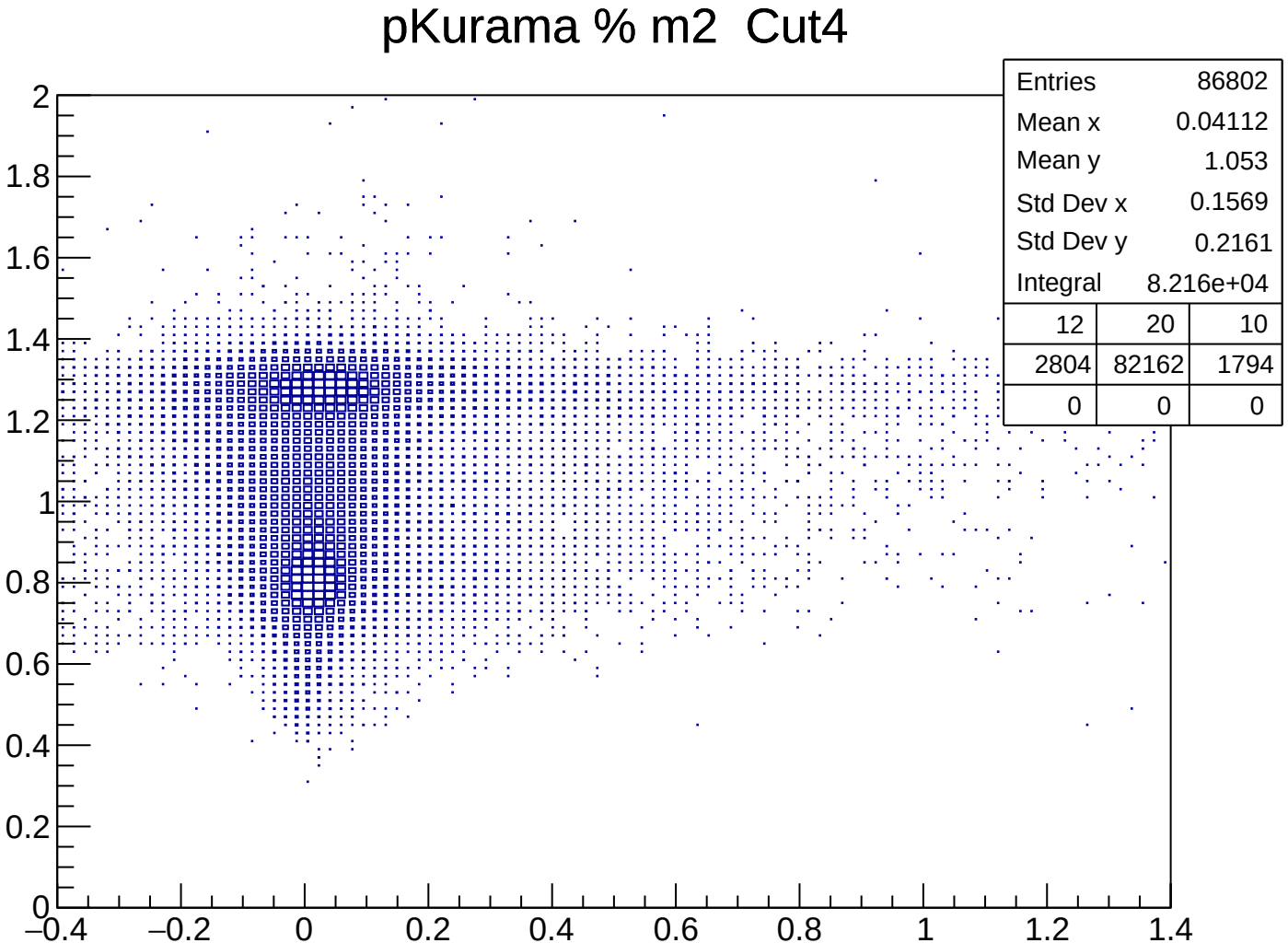
pKurama % m2 Cut3

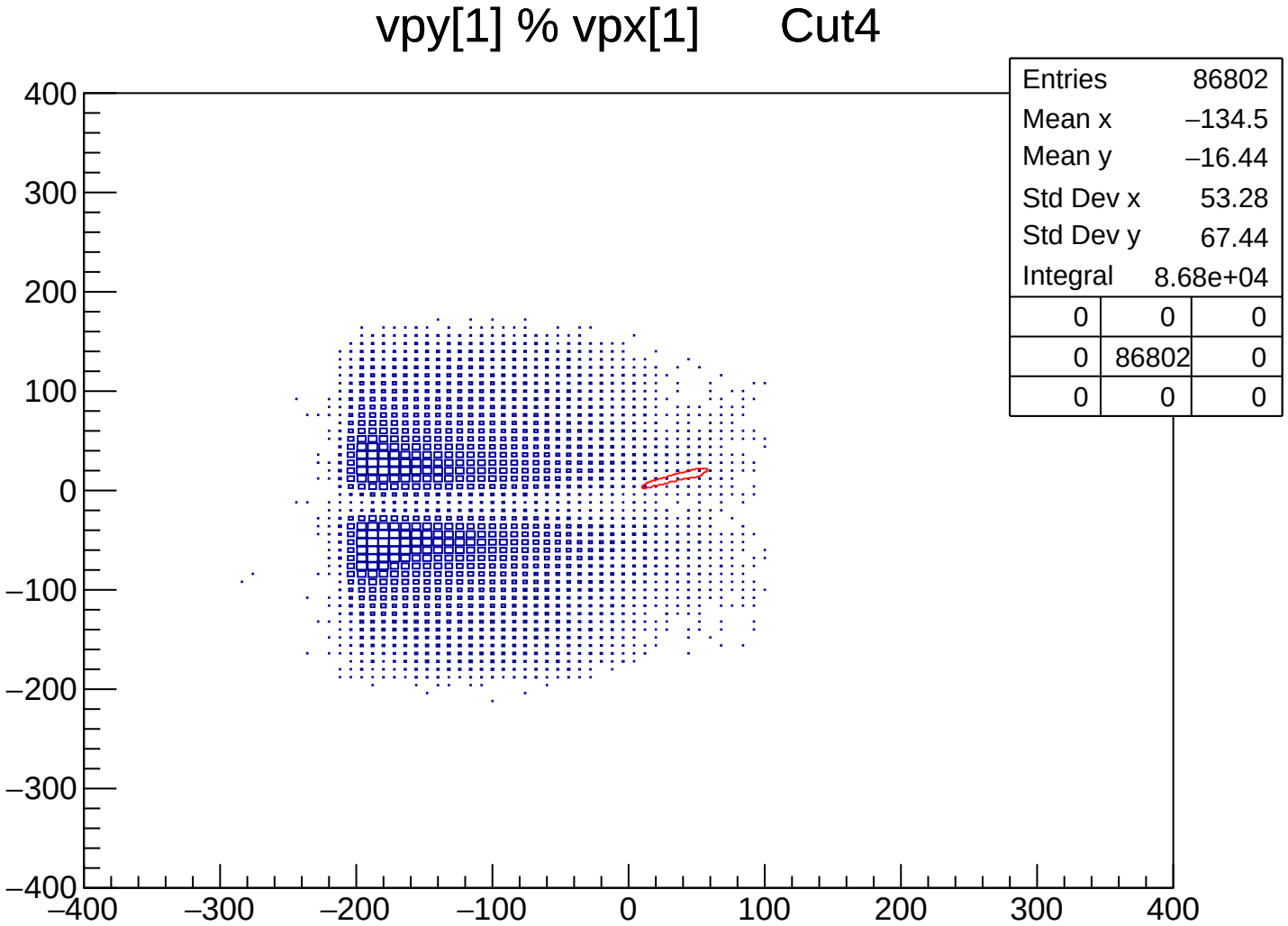


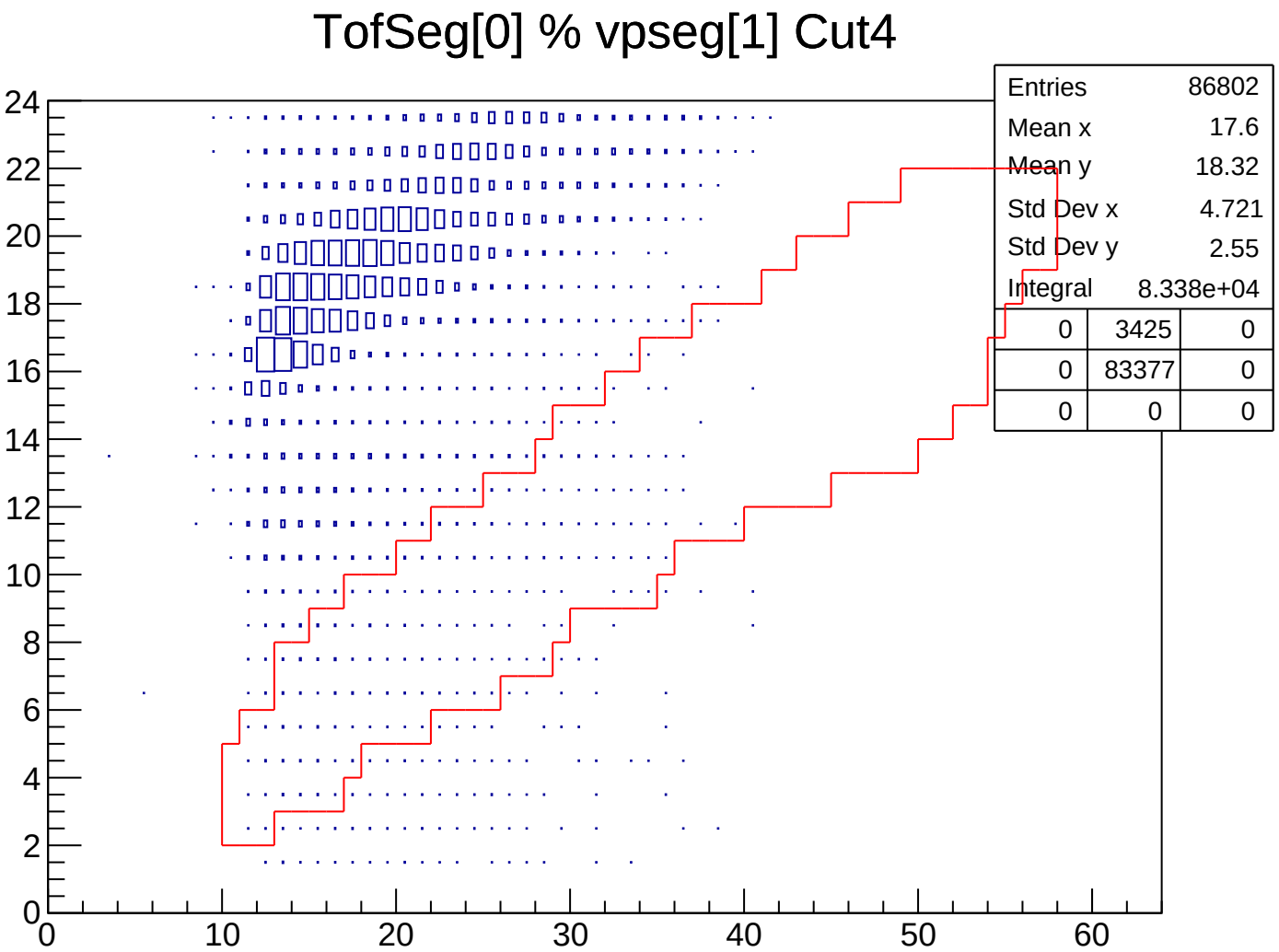

vpy[1] % vpx[1] Cut3
Entries 18322
Mean x –34.71
Mean y –15.29
Std Dev x 109.6
Std Dev y 97.68
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

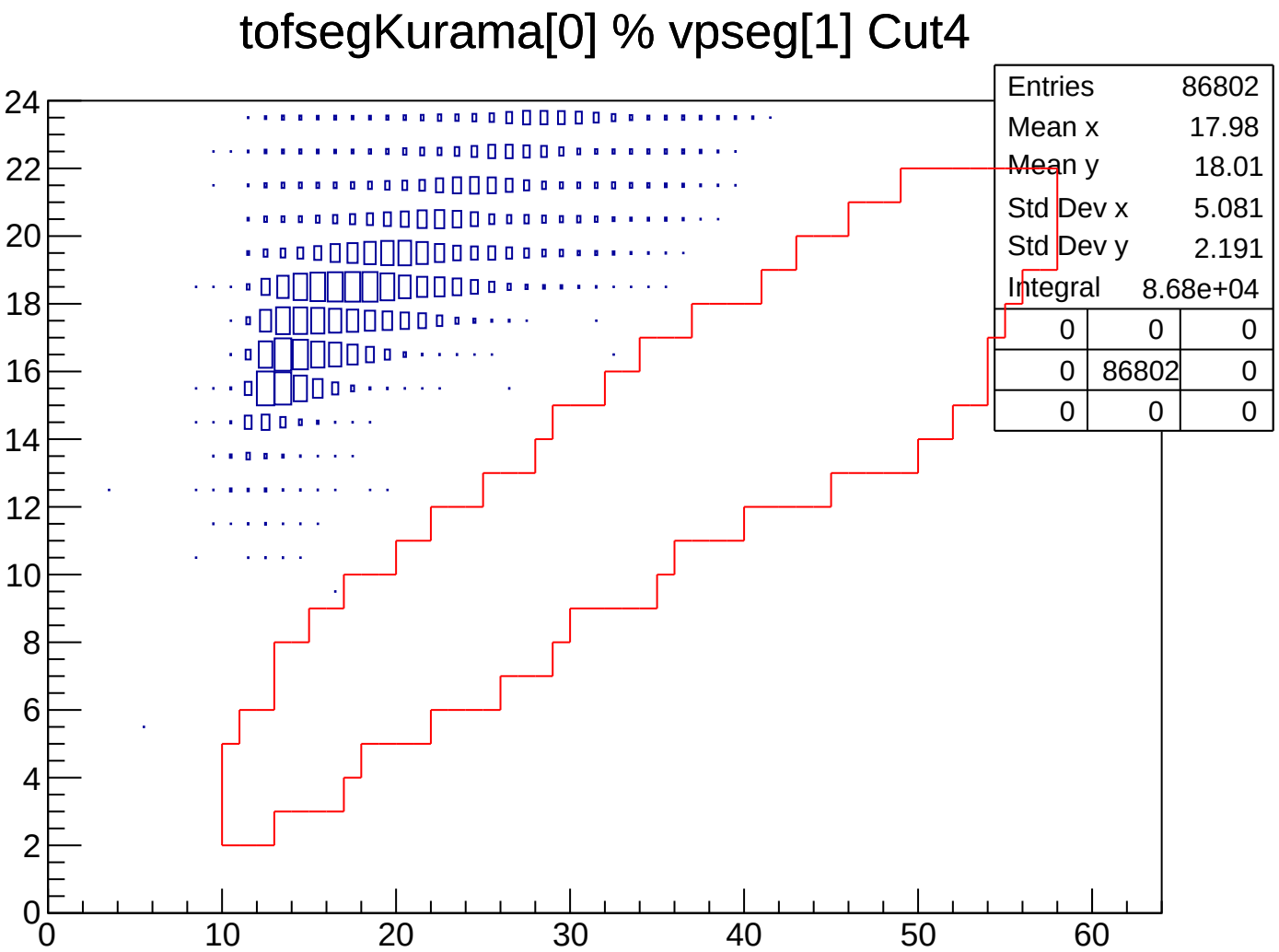

TofSeg[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.44
Std Dev y 4.547
Integral 1.831e+04
0 8 0
0 18314 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

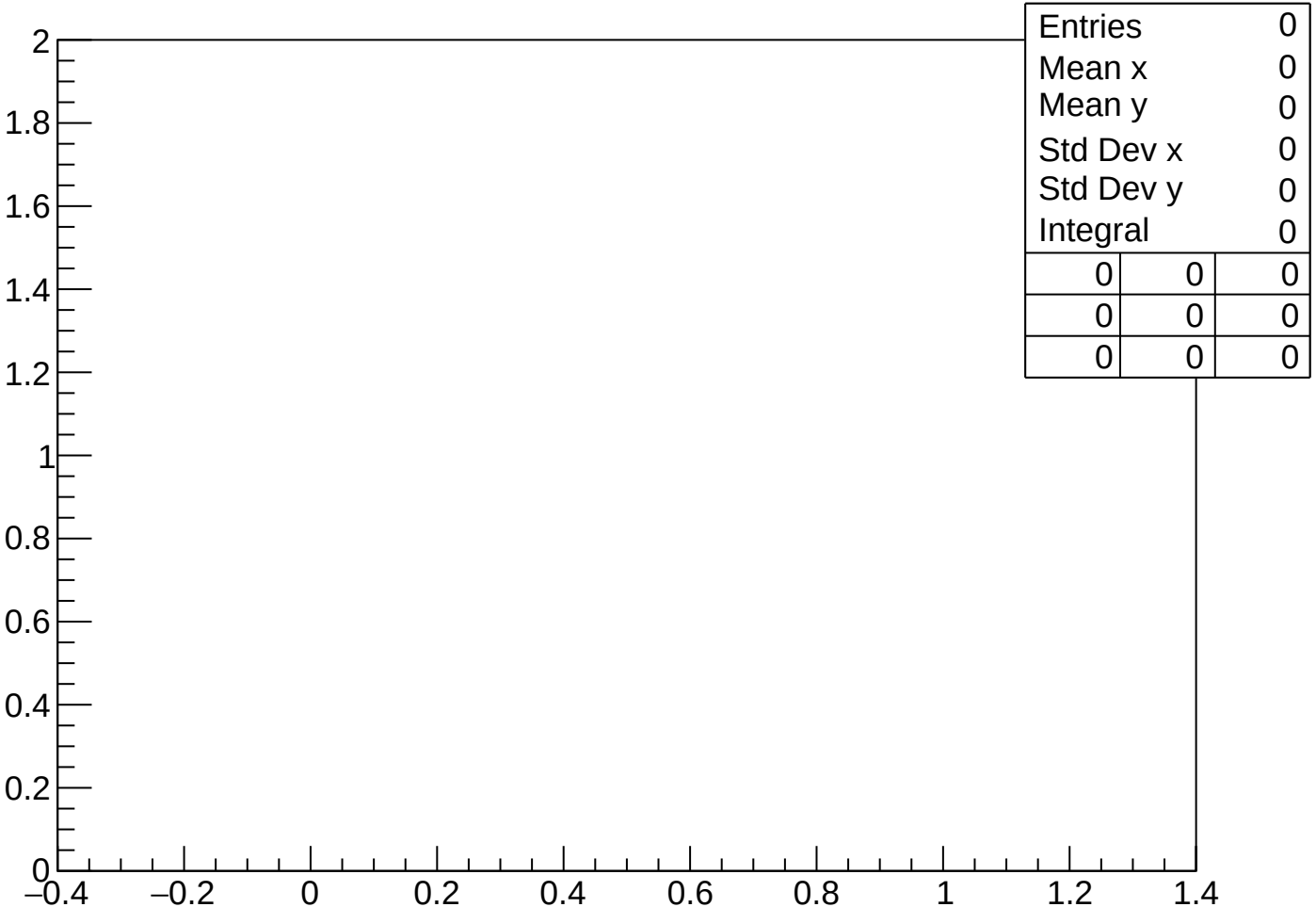

pKurama % m2 Cut4
Entries 86802
Mean x 0.04112
Mean y 1.053
Std Dev x 0.1569
Std Dev y 0.2161
Integral 8.216e+04
12 20 10
2804 82162 1794
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

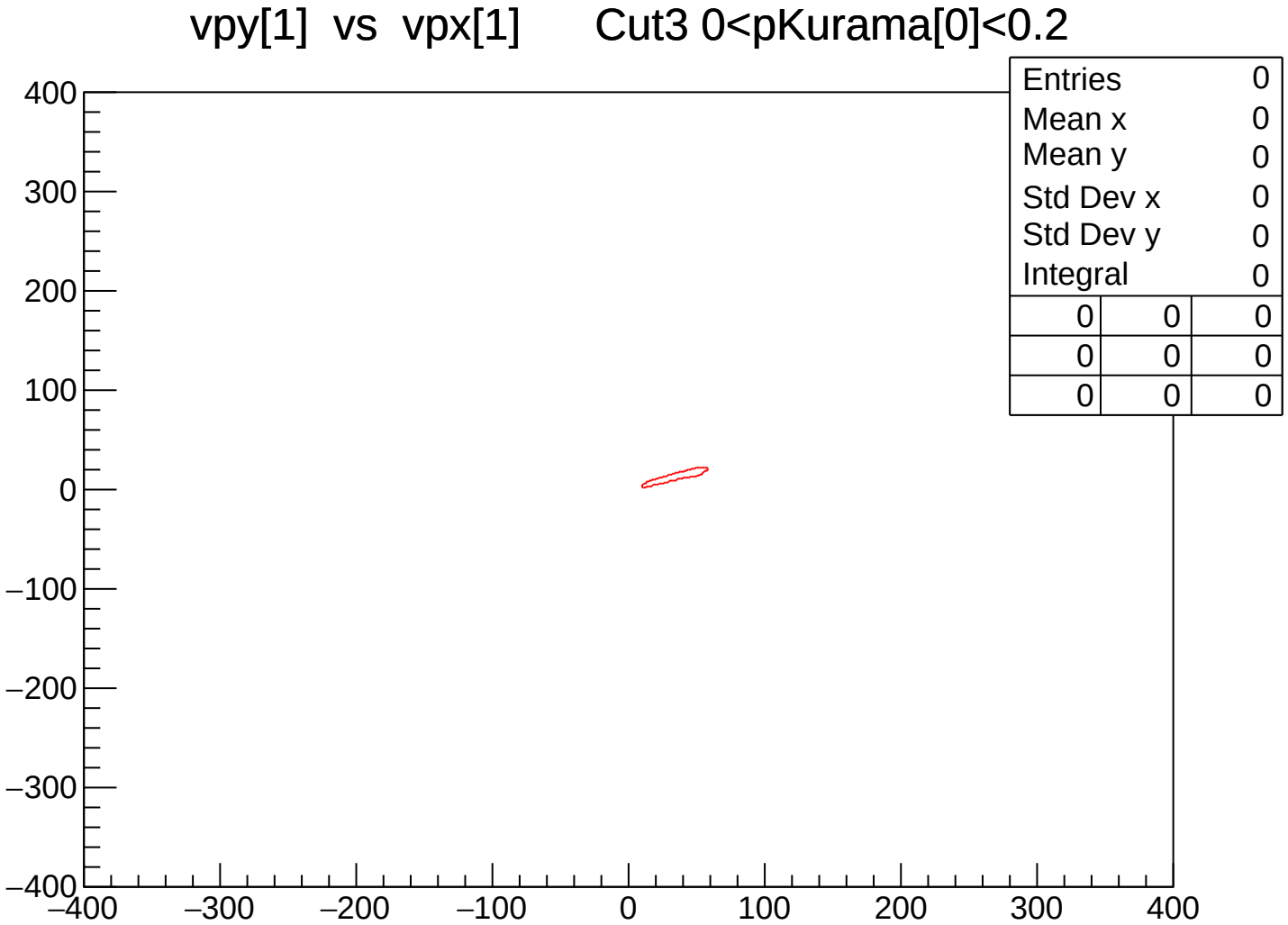

vpy[1] % vpx[1] Cut4
Entries 86802
Mean x –134.5
Mean y –16.44
Std Dev x 53.28
Std Dev y 67.44
Integral 8.68e+04
0 0 0
0 86802 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

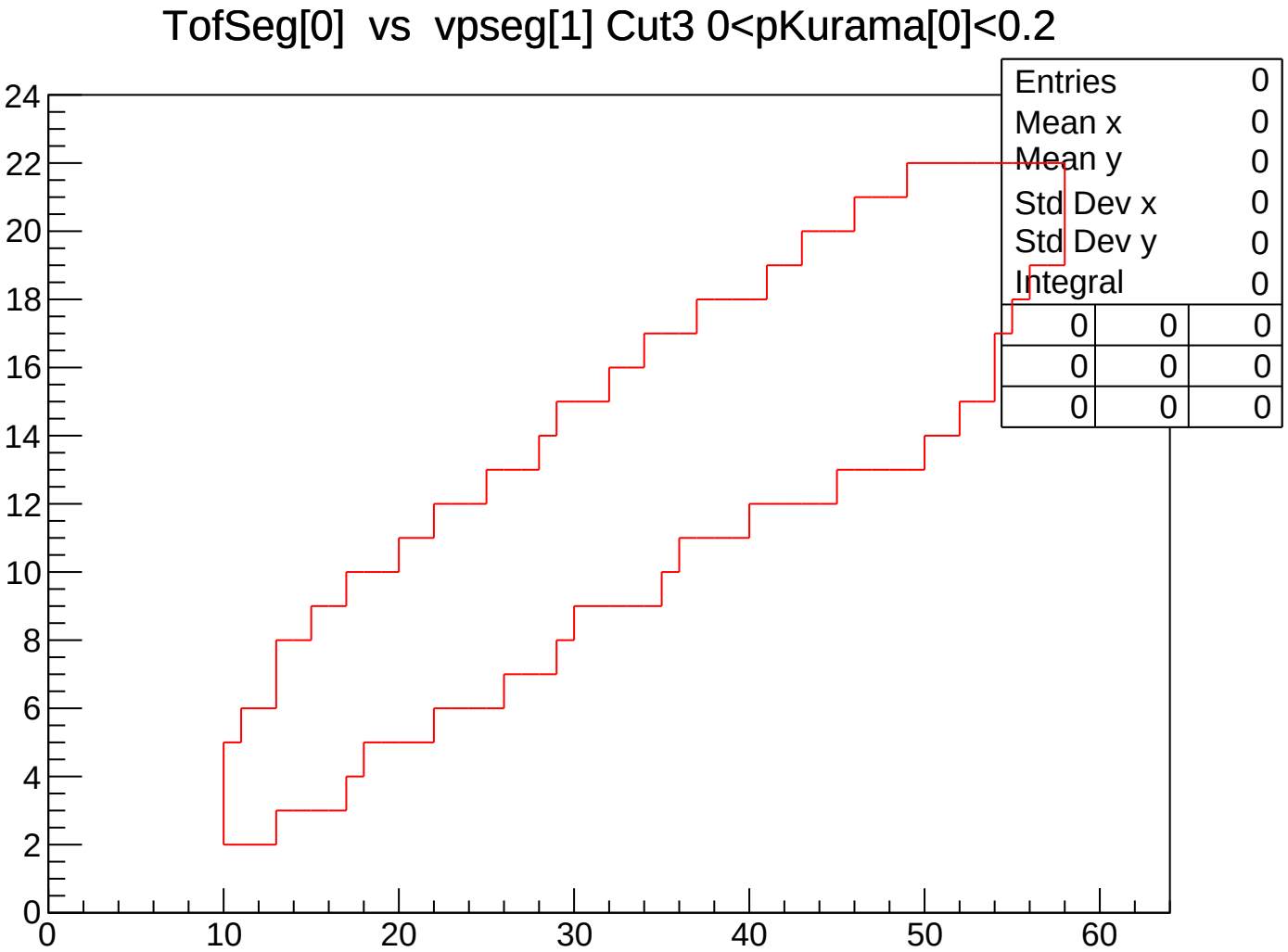

TofSeg[0] % vpseg[1] Cut4
Entries 86802
Mean x 17.6
Mean y 18.32
Std Dev x 4.721
Std Dev y 2.55
Integral 8.338e+04
0 3425 0
0 83377 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

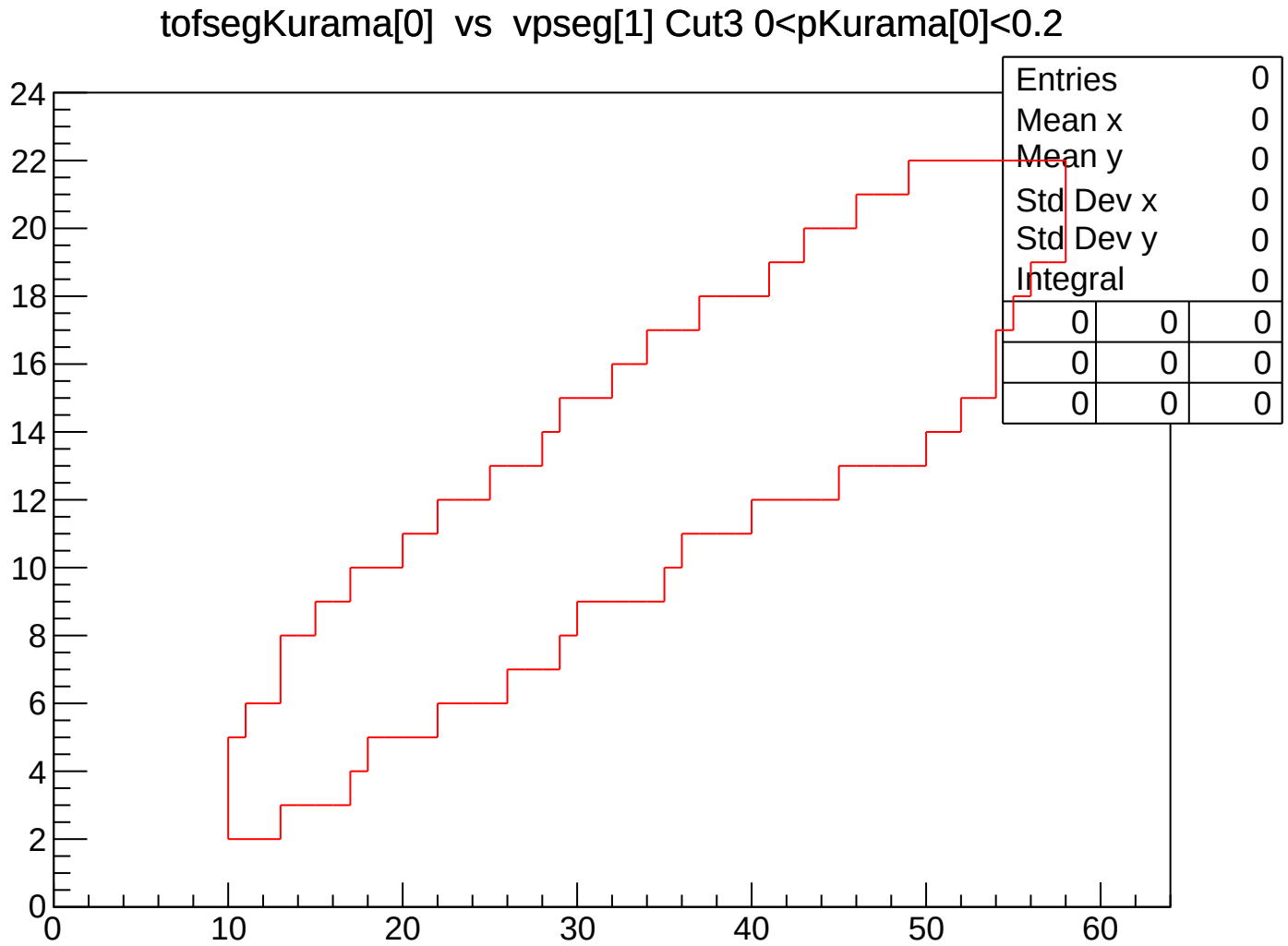

tofsegKurama[0] % vpseg[1] Cut4
Entries 86802
Mean x 17.98
Mean y 18.01
Std Dev x 5.081
Std Dev y 2.191
Integral 8.68e+04
0 0 0
0 86802 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 0<pKurama[0]<0.2

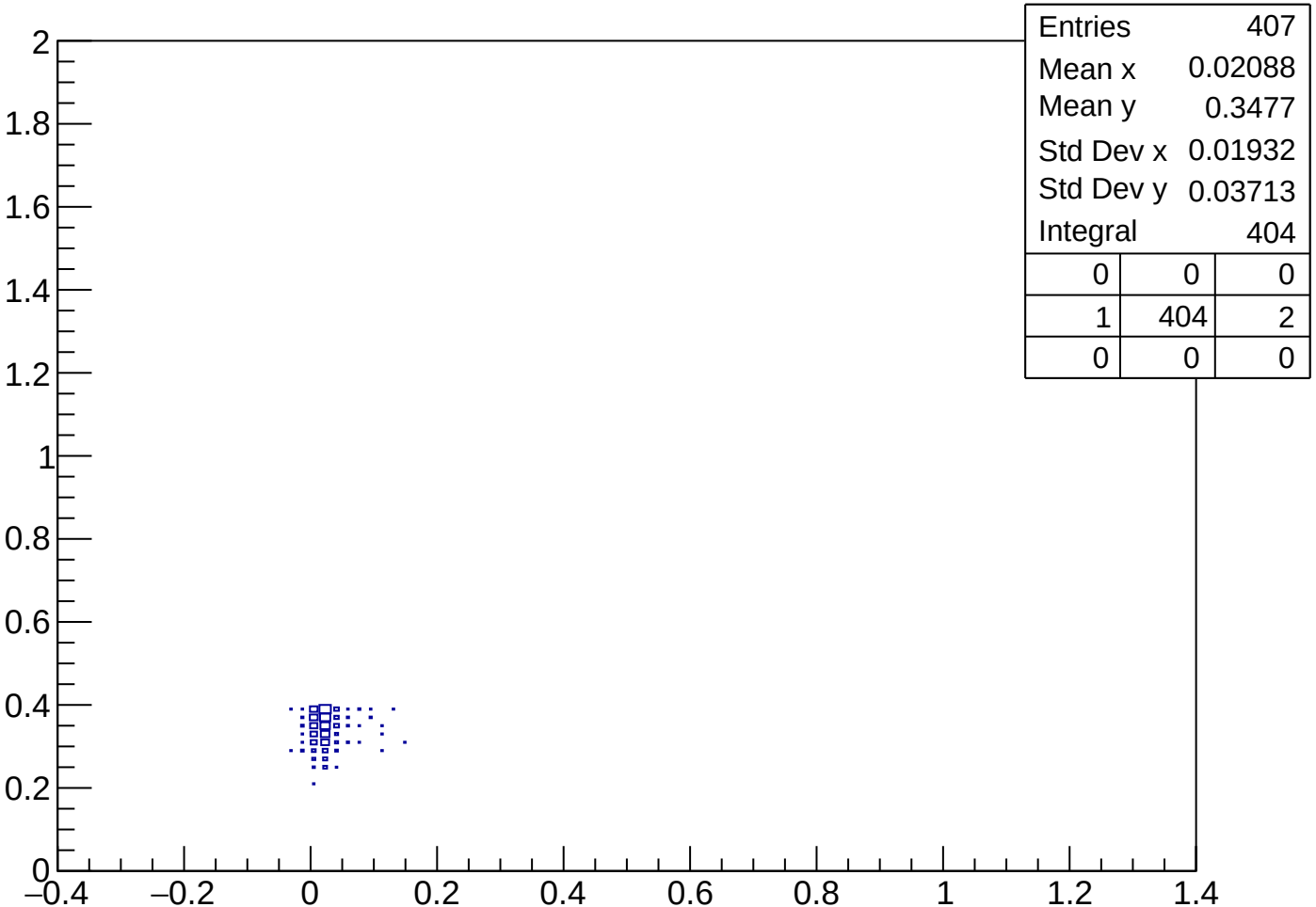


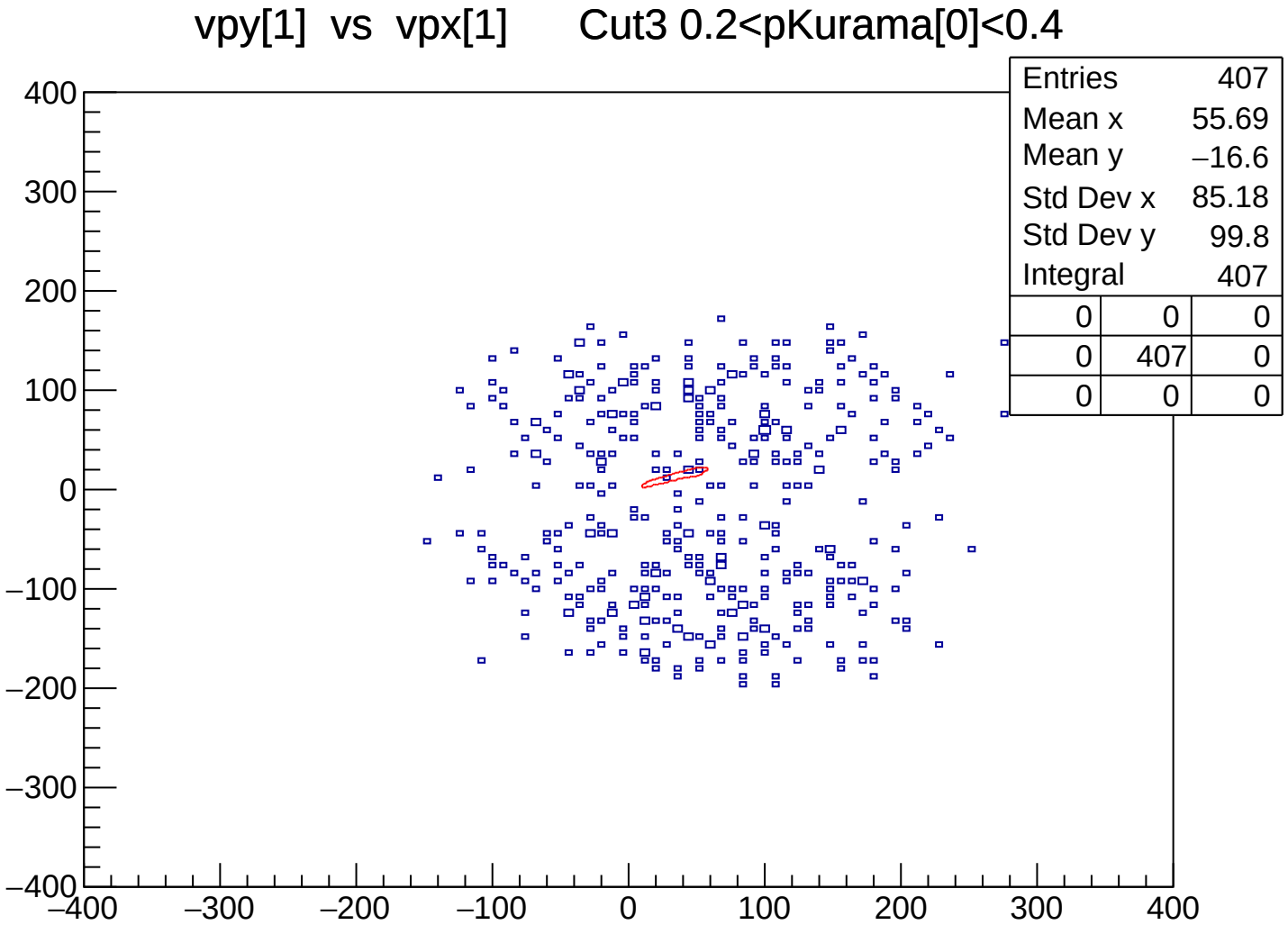

vpy[1] vs vpx[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

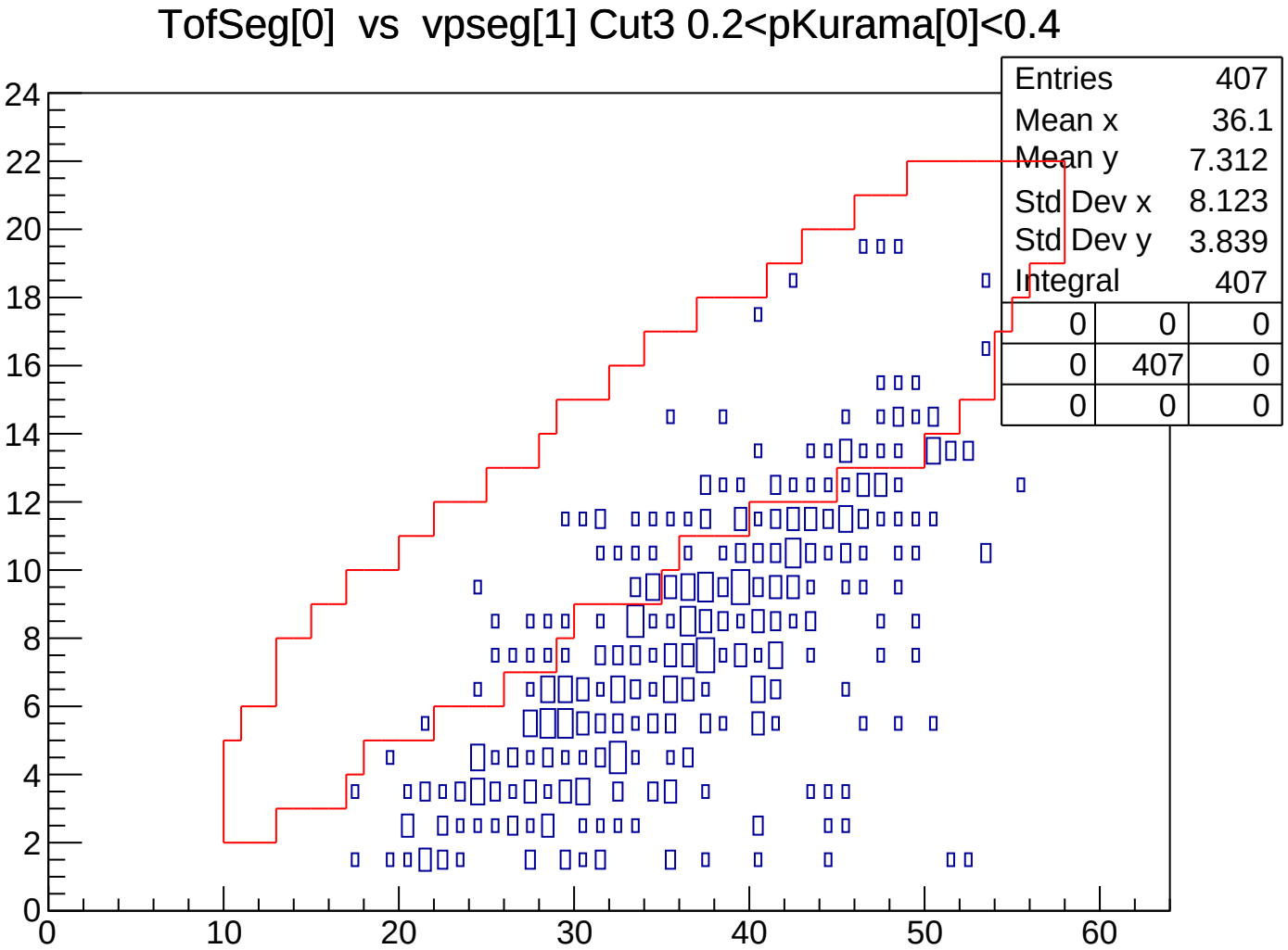

TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

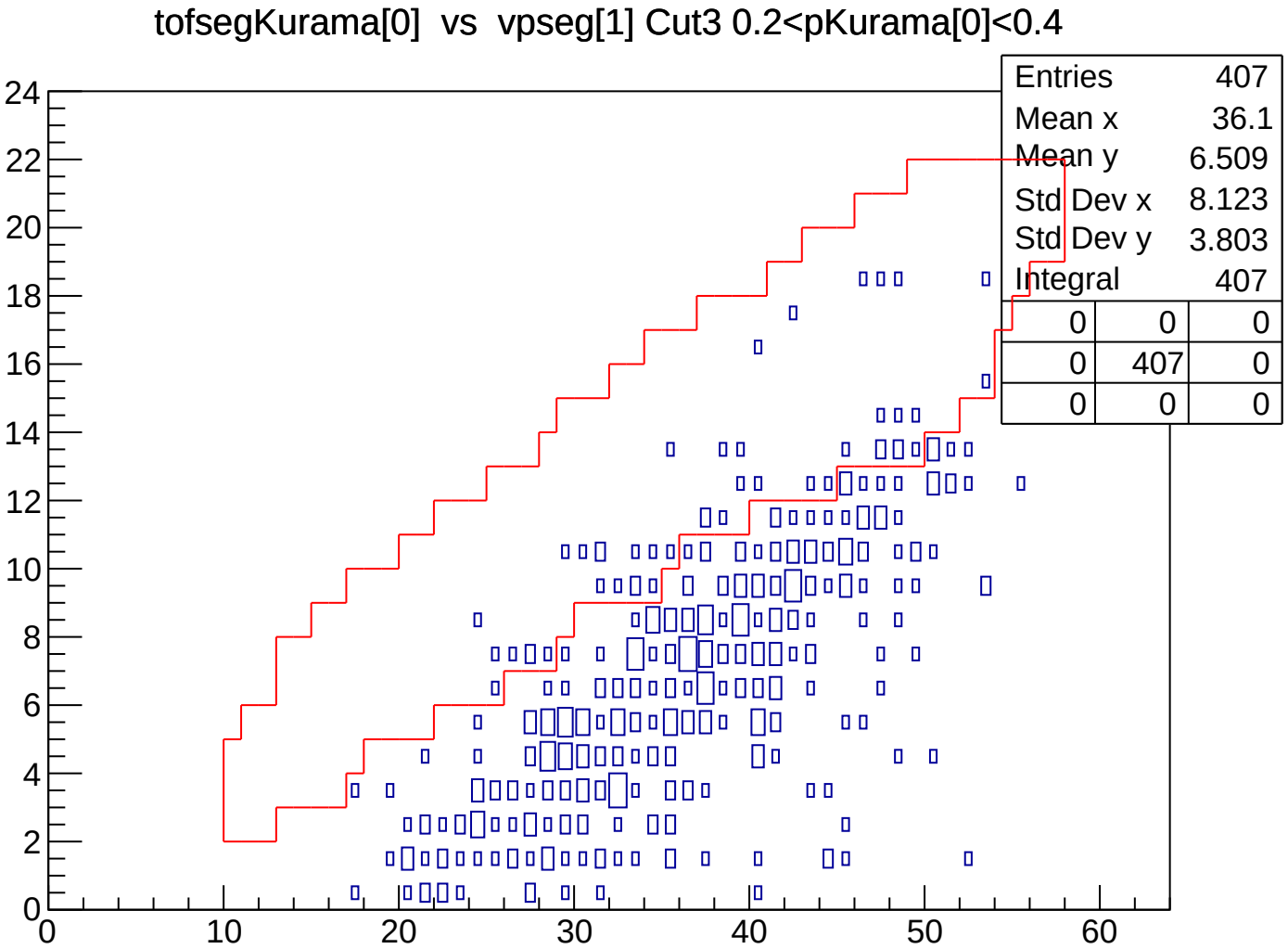

tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

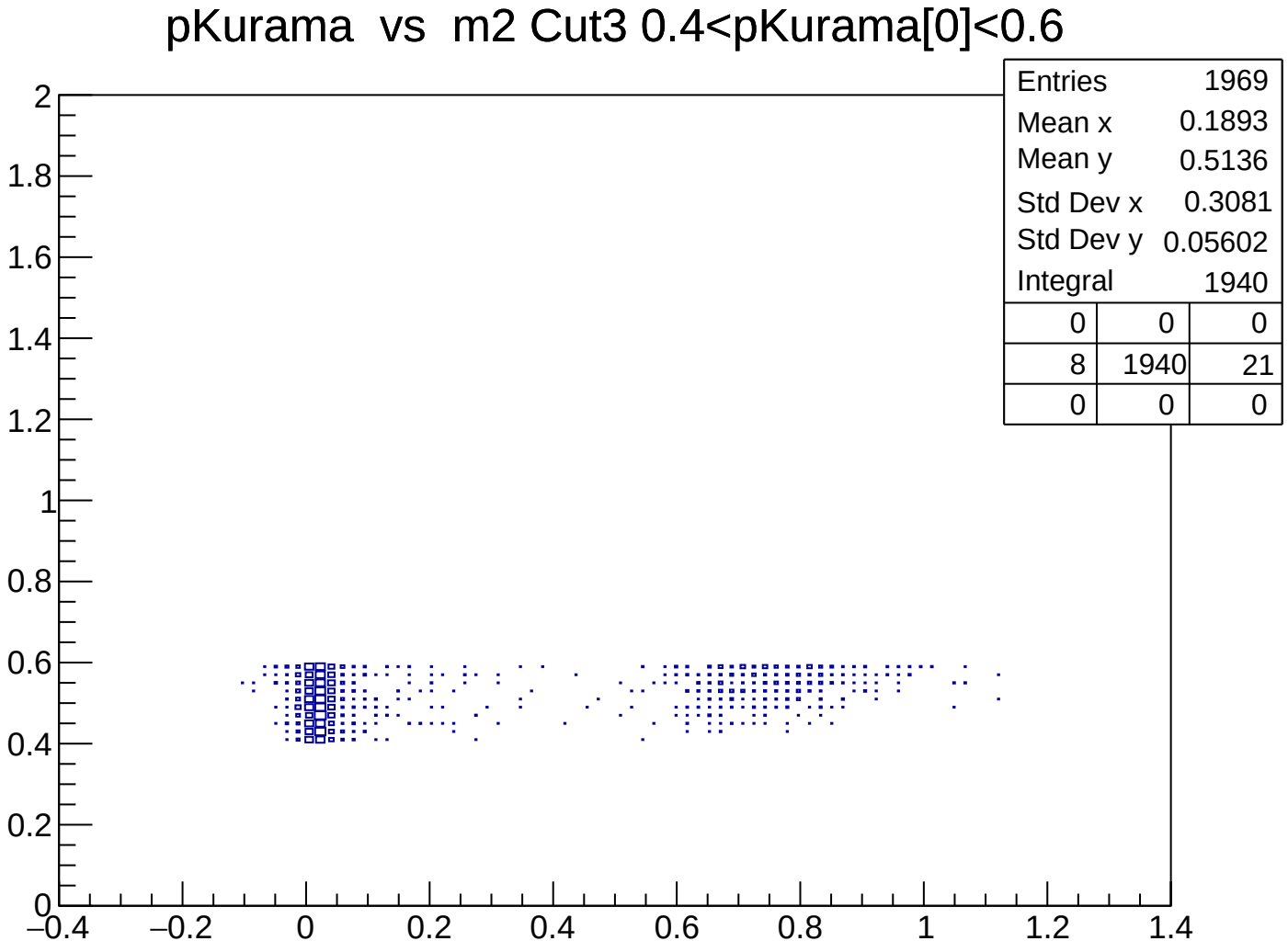
pKurama vs m2 Cut3 0.2<pKurama[0]<0.4

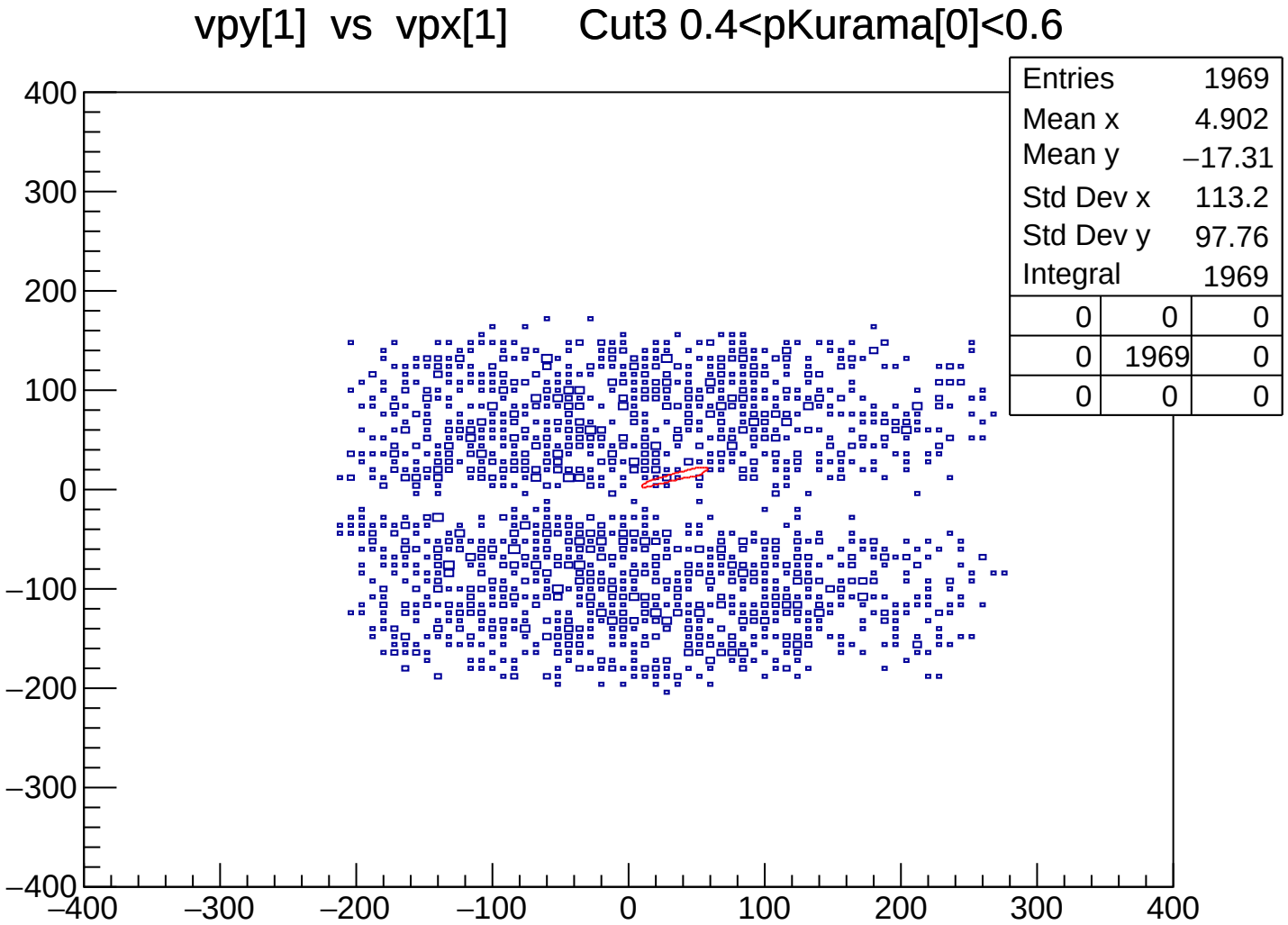


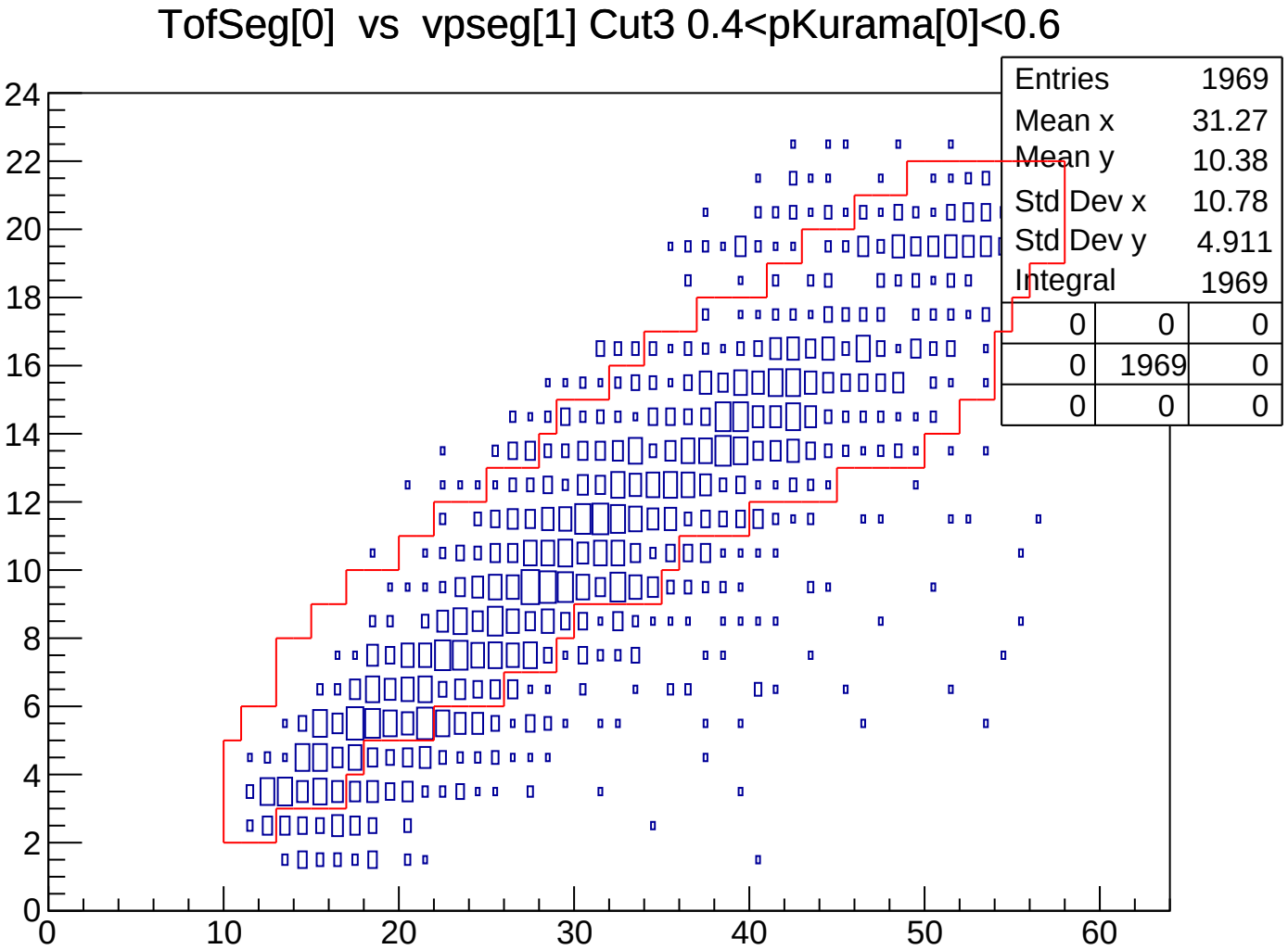

vpy[1] vs vpx[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 55.69
Mean y −16.6
Std Dev x 85.18
Std Dev y 99.8
Integral 407
0 0 0
0 407 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

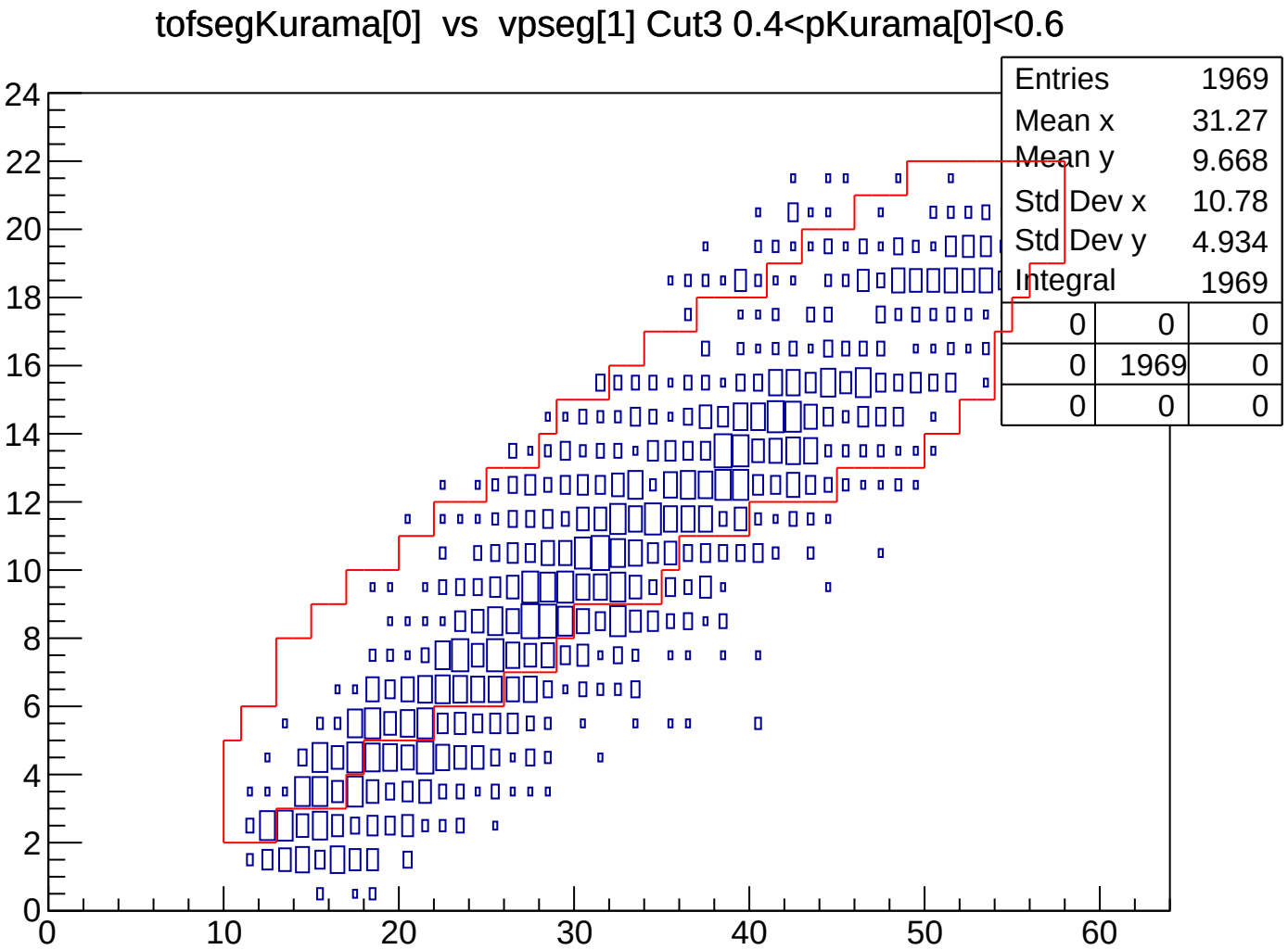

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 36.1
Mean y 7.312
Std Dev x 8.123
Std Dev y 3.839
Integral 407
0 0 0
0 407 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

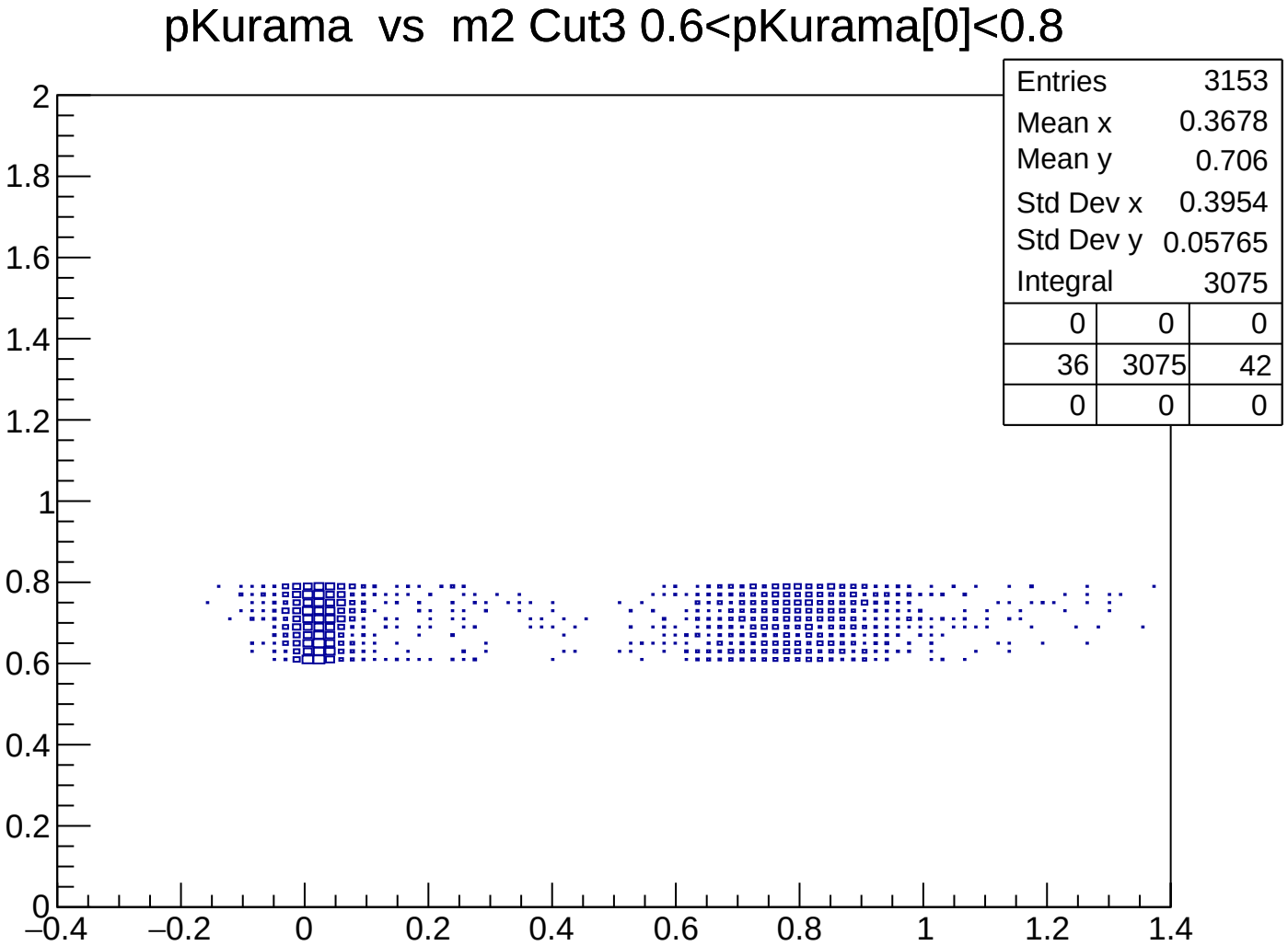

tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 407
Mean x 36.1
Mean y 6.509
Std Dev x 8.123
Std Dev y 3.803
Integral 407
0 0 0
0 407 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

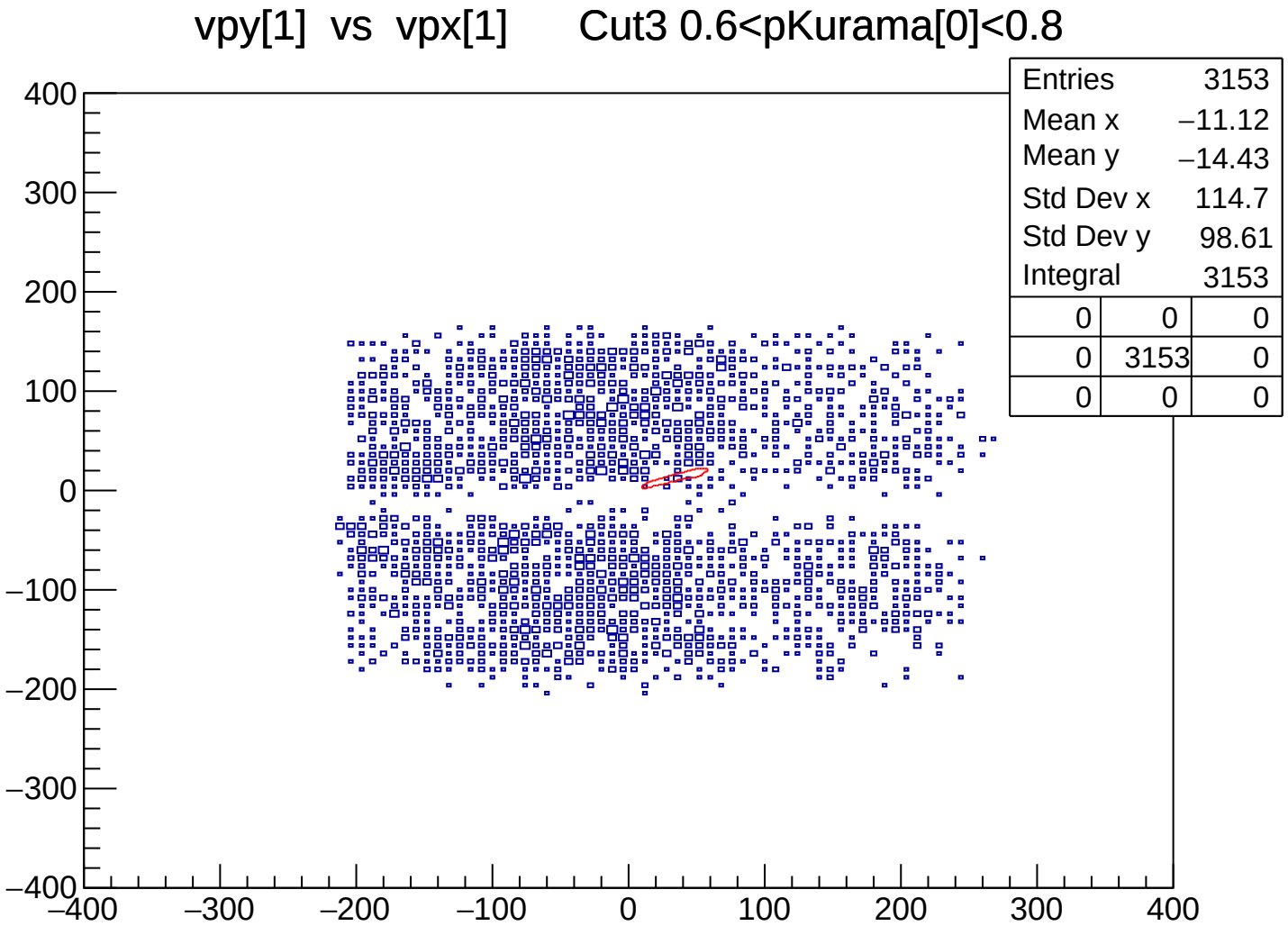

pKurama vs m2 Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 0.1893
Mean y 0.5136
Std Dev x 0.3081
Std Dev y 0.05602
Integral 1940
0 0 0
8 1940 21
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

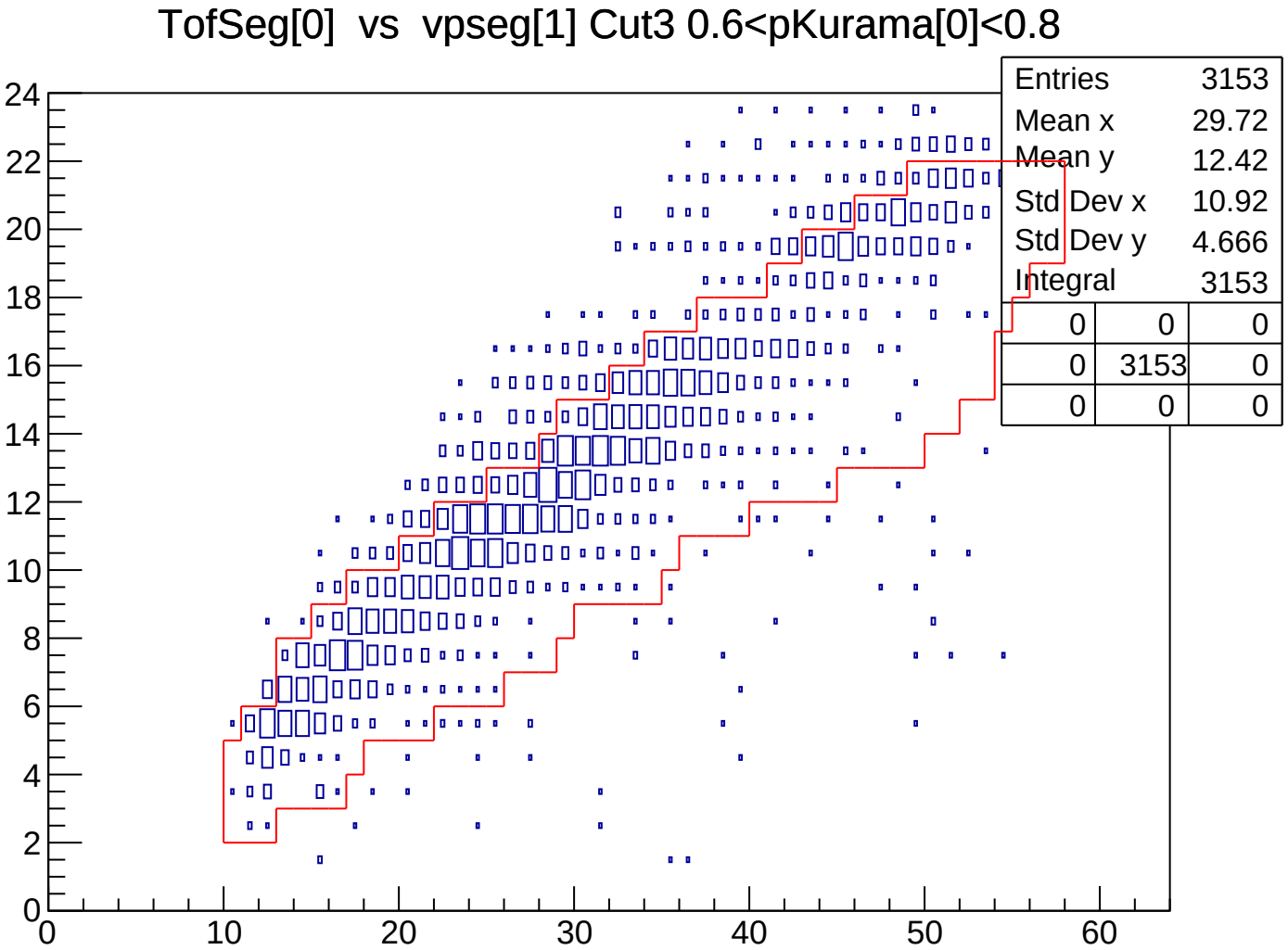

vpy[1] vs vpx[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 4.902
Mean y −17.31
Std Dev x 113.2
Std Dev y 97.76
Integral 1969
0 0 0
0 1969 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

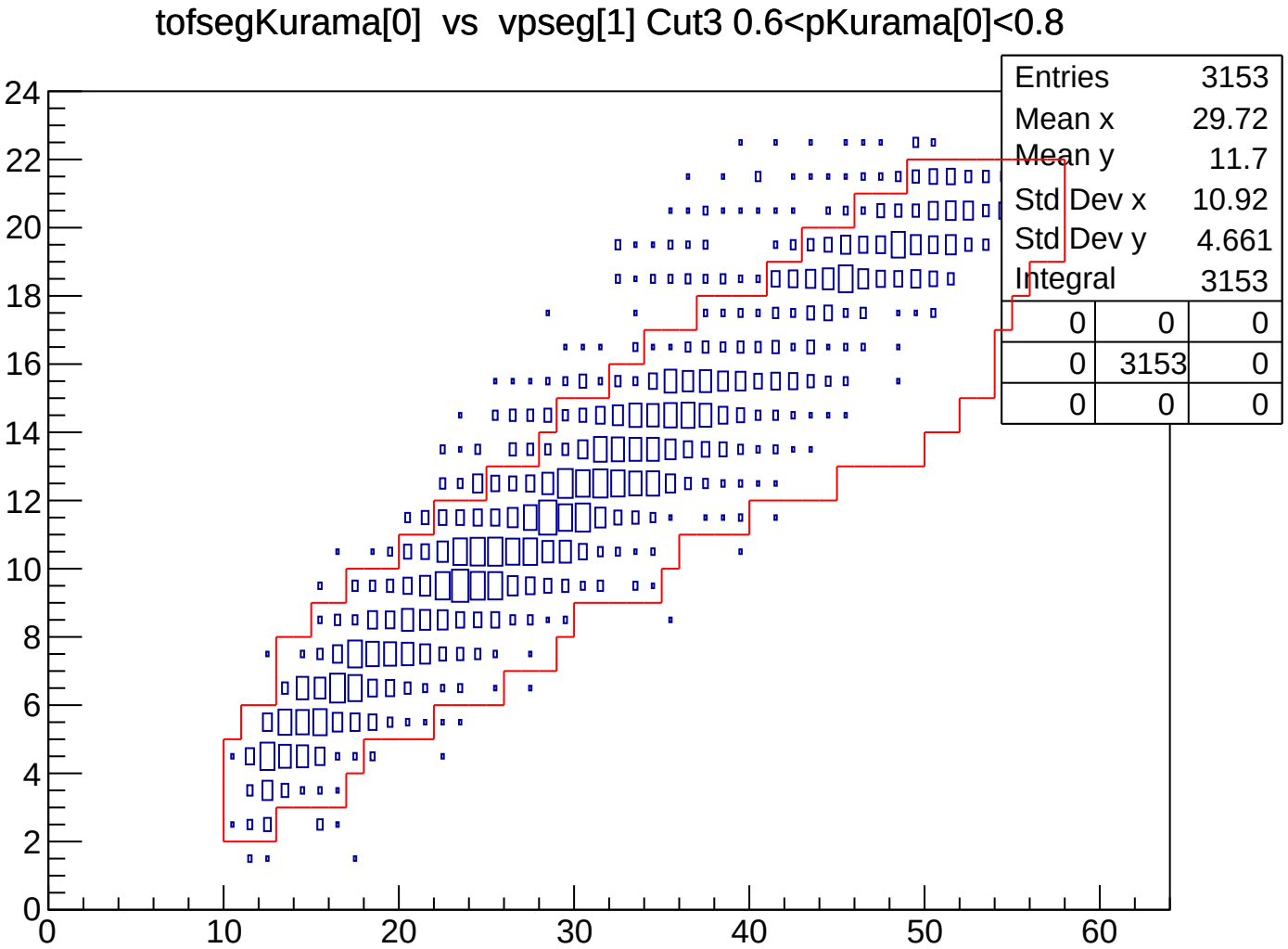

TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 31.27
Mean y 10.38
Std Dev x 10.78
Std Dev y 4.911
Integral 1969
0 0 0
0 1969 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

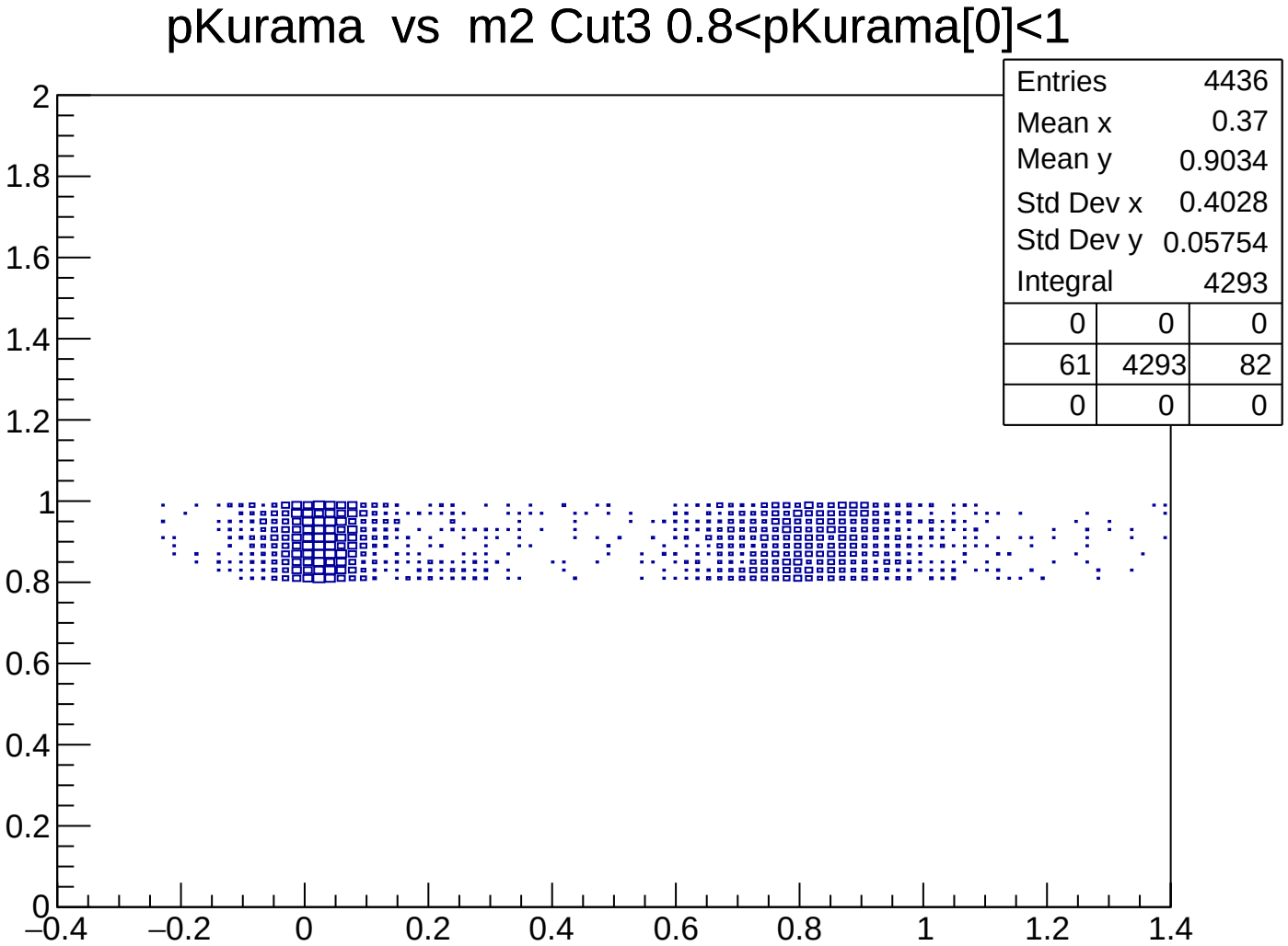

tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 1969
Mean x 31.27
Mean y 9.668
Std Dev x 10.78
Std Dev y 4.934
Integral 1969
0 0 0
0 1969 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

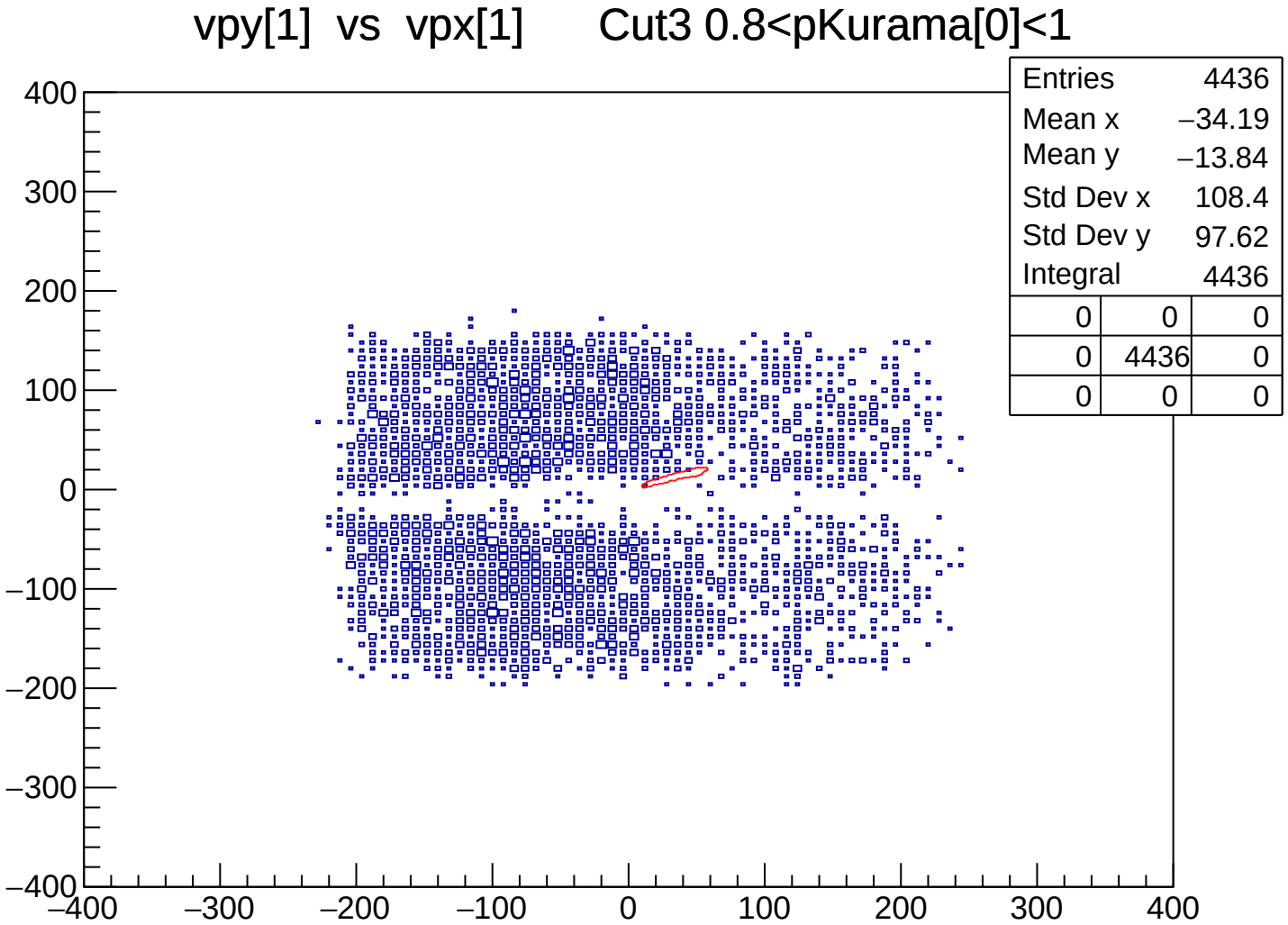

pKurama vs m2 Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 0.3678
Mean y 0.706
Std Dev x 0.3954
Std Dev y 0.05765
Integral 3075
0 0 0
36 3075 42
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

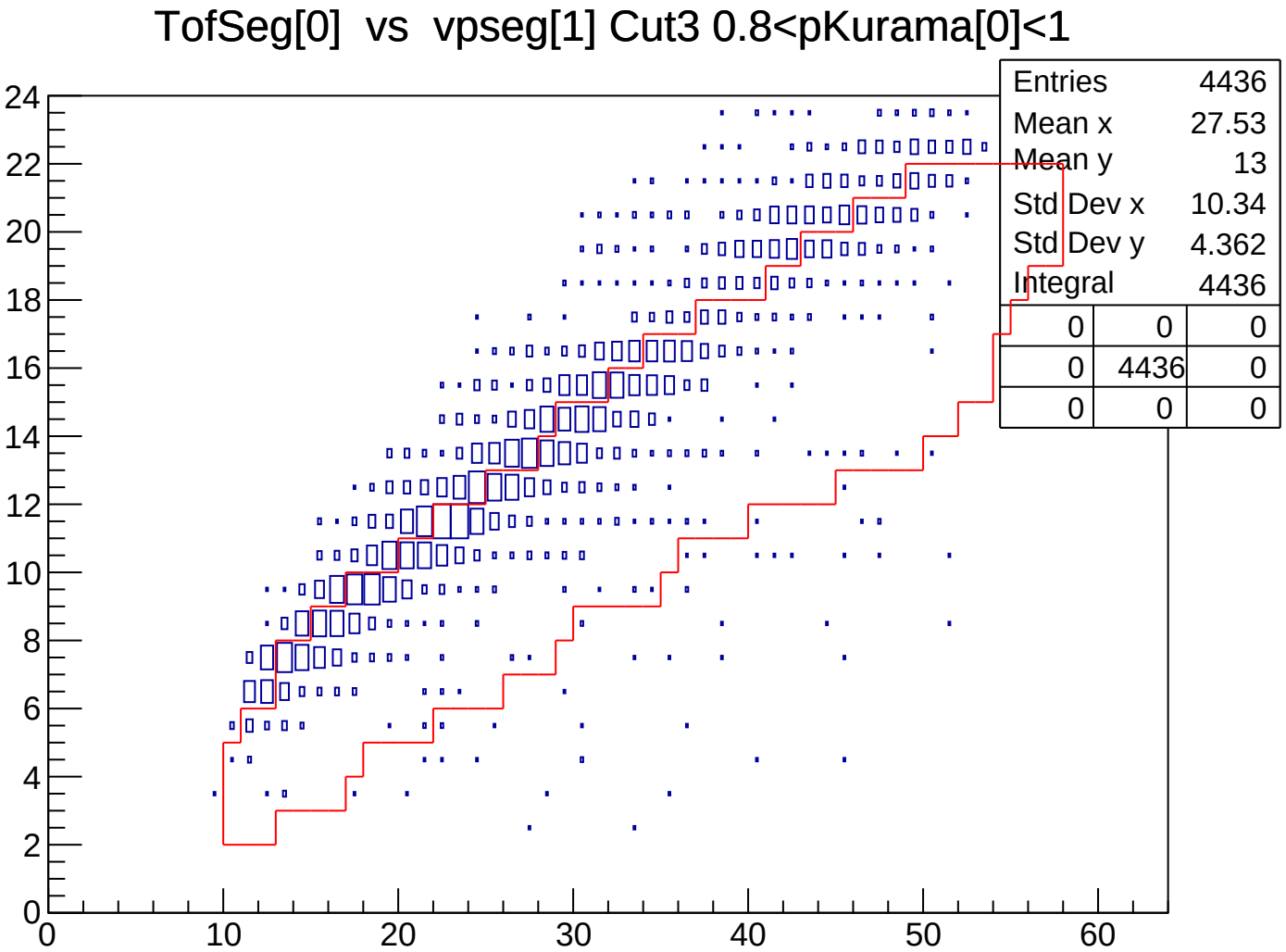

vpy[1] vs vpx[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x −11.12
Mean y −14.43
Std Dev x 114.7
Std Dev y 98.61
Integral 3153
0 0 0
0 3153 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

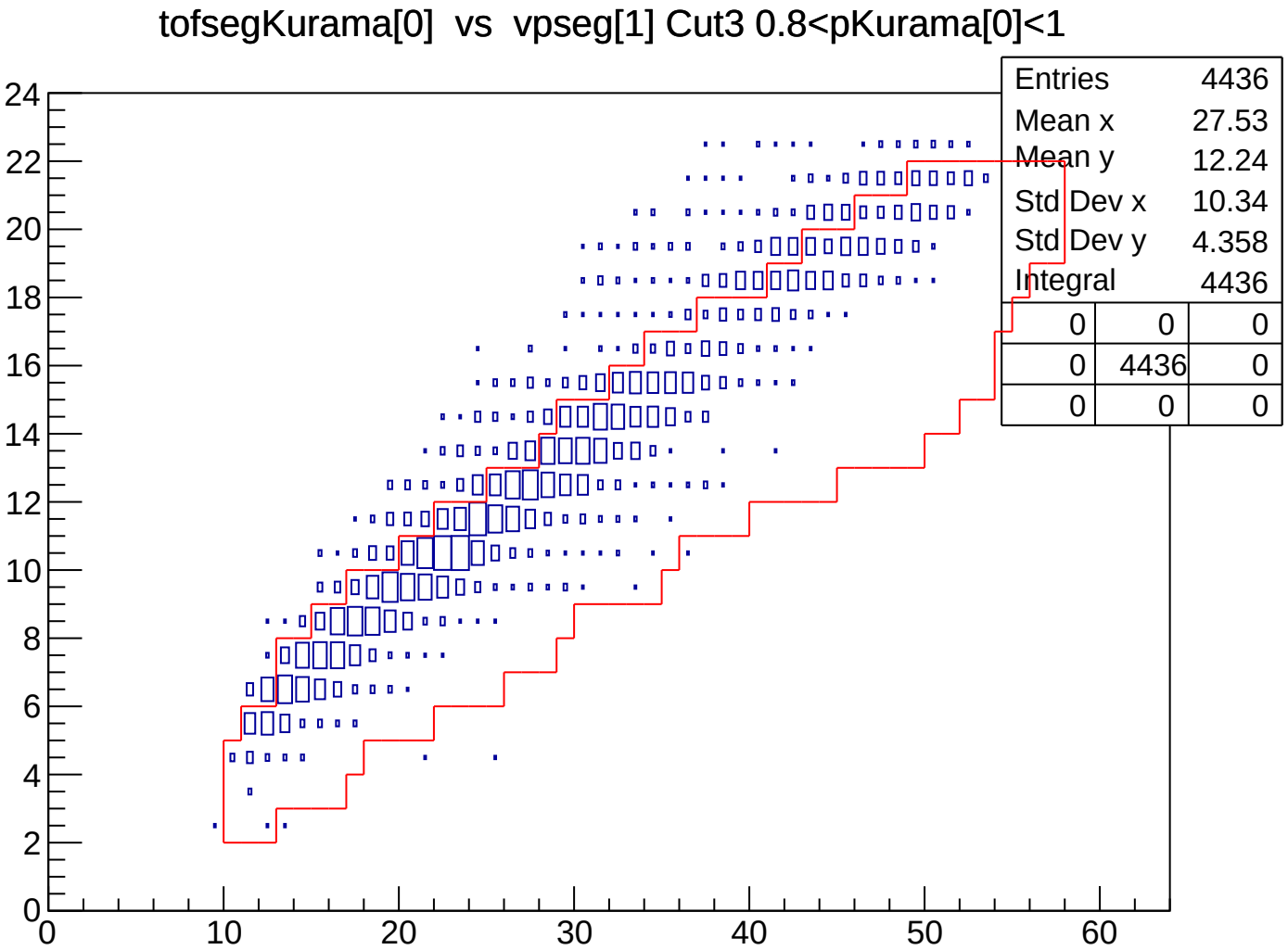

TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 29.72
Mean y 12.42
Std Dev x 10.92
Std Dev y 4.666
Integral 3153
0 0 0
0 3153 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 3153
Mean x 29.72
Mean y 11.7
Std Dev x 10.92
Std Dev y 4.661
Integral 3153
0 0 0
0 3153 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

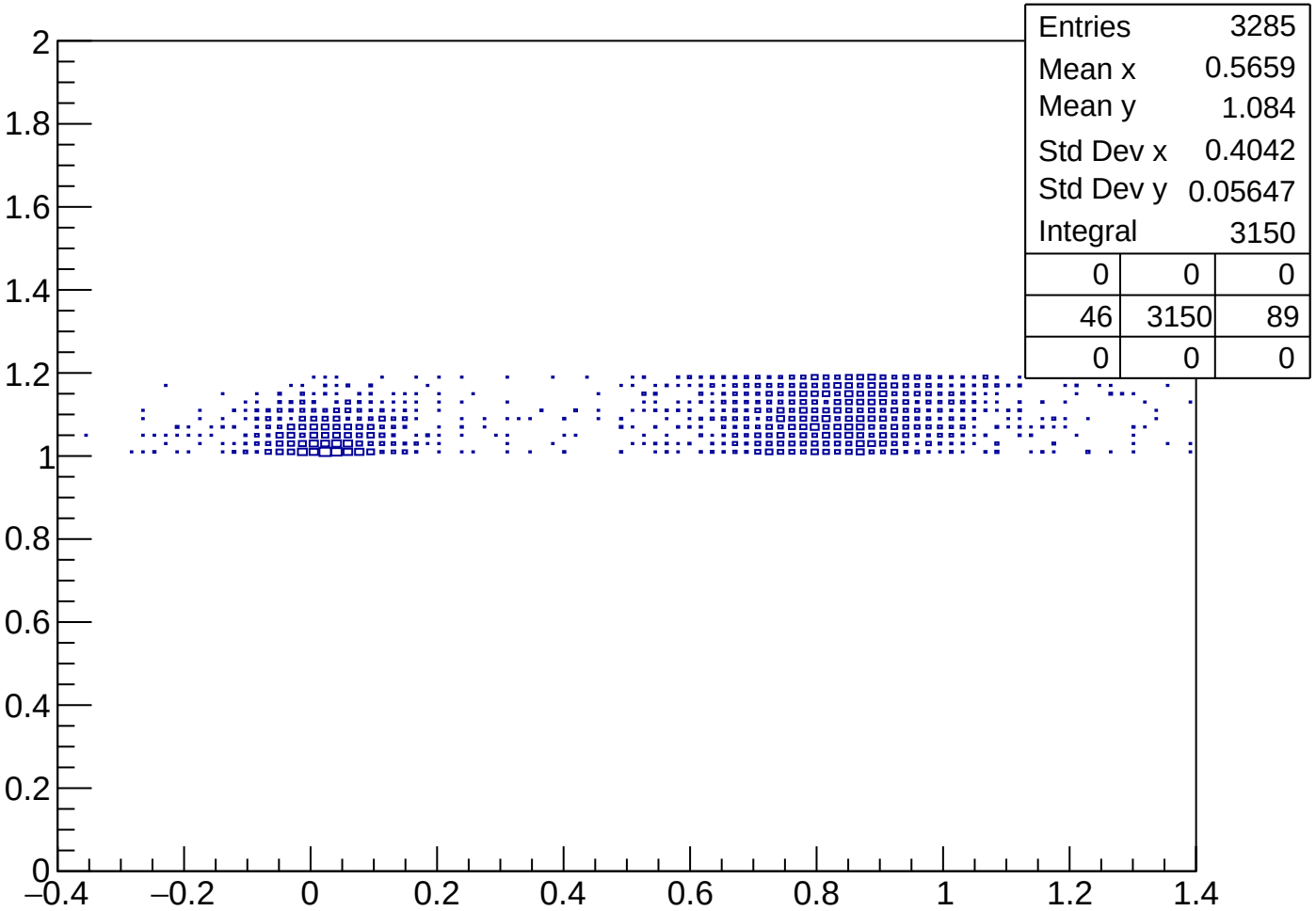

pKurama vs m2 Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 0.37
Mean y 0.9034
Std Dev x 0.4028
Std Dev y 0.05754
Integral 4293
0 0 0
61 4293 82
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

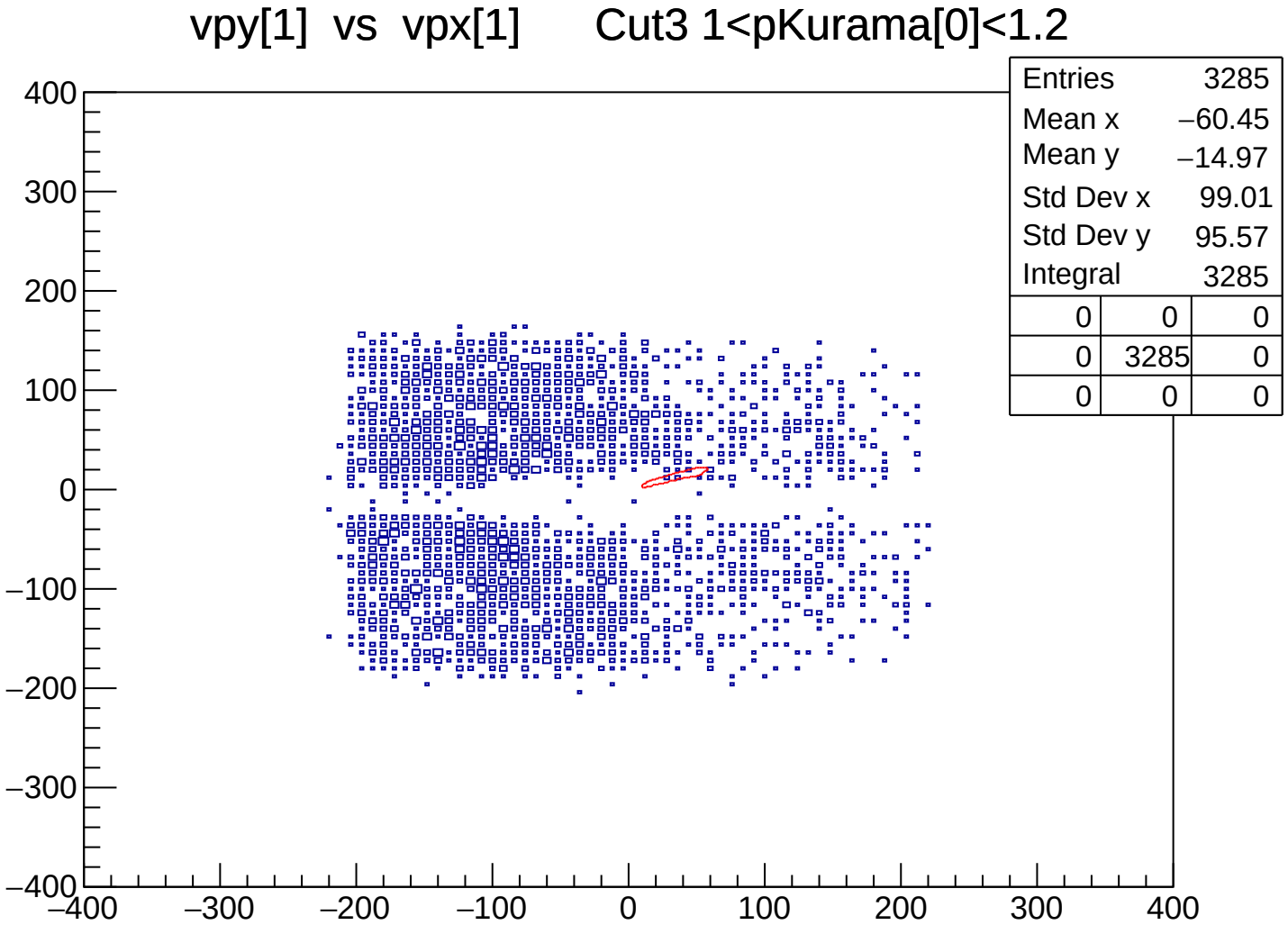

vpy[1] vs vpx[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x −34.19
Mean y −13.84
Std Dev x 108.4
Std Dev y 97.62
Integral 4436
0 0 0
0 4436 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

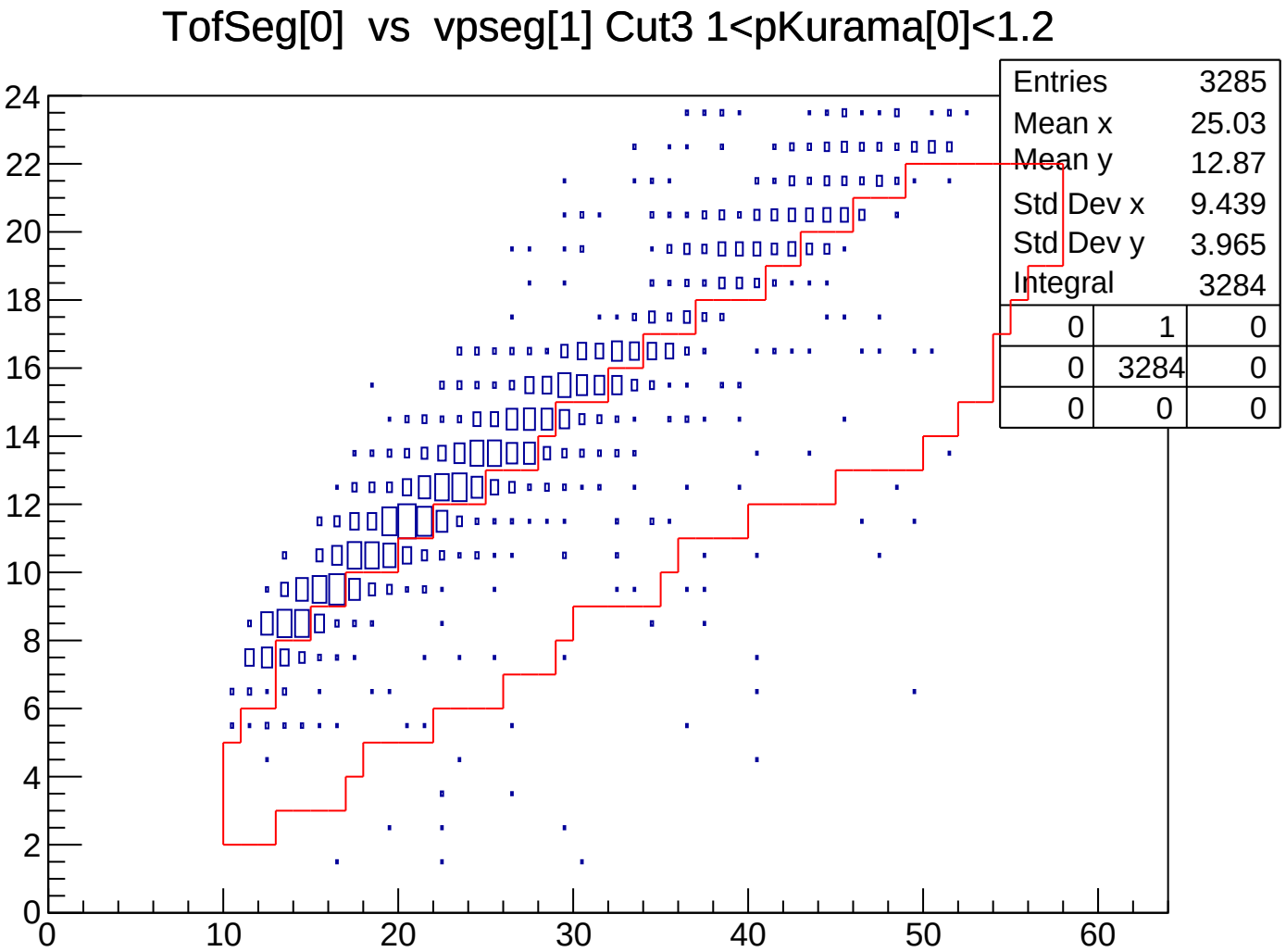

TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 27.53
Mean y 13
Std Dev x 10.34
Std Dev y 4.362
Integral 4436
0 0 0
0 4436 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

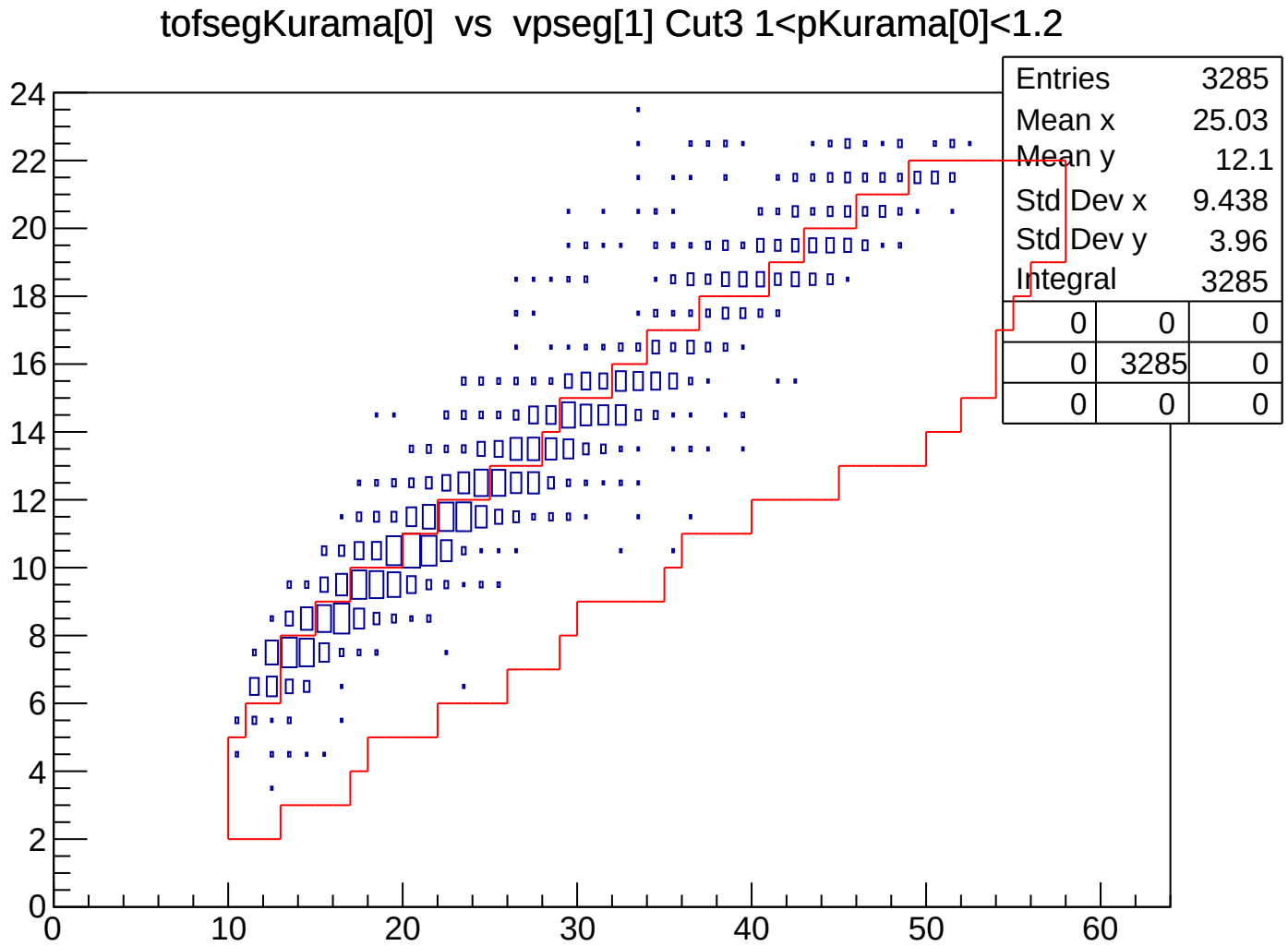

tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 4436
Mean x 27.53
Mean y 12.24
Std Dev x 10.34
Std Dev y 4.358
Integral 4436
0 0 0
0 4436 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

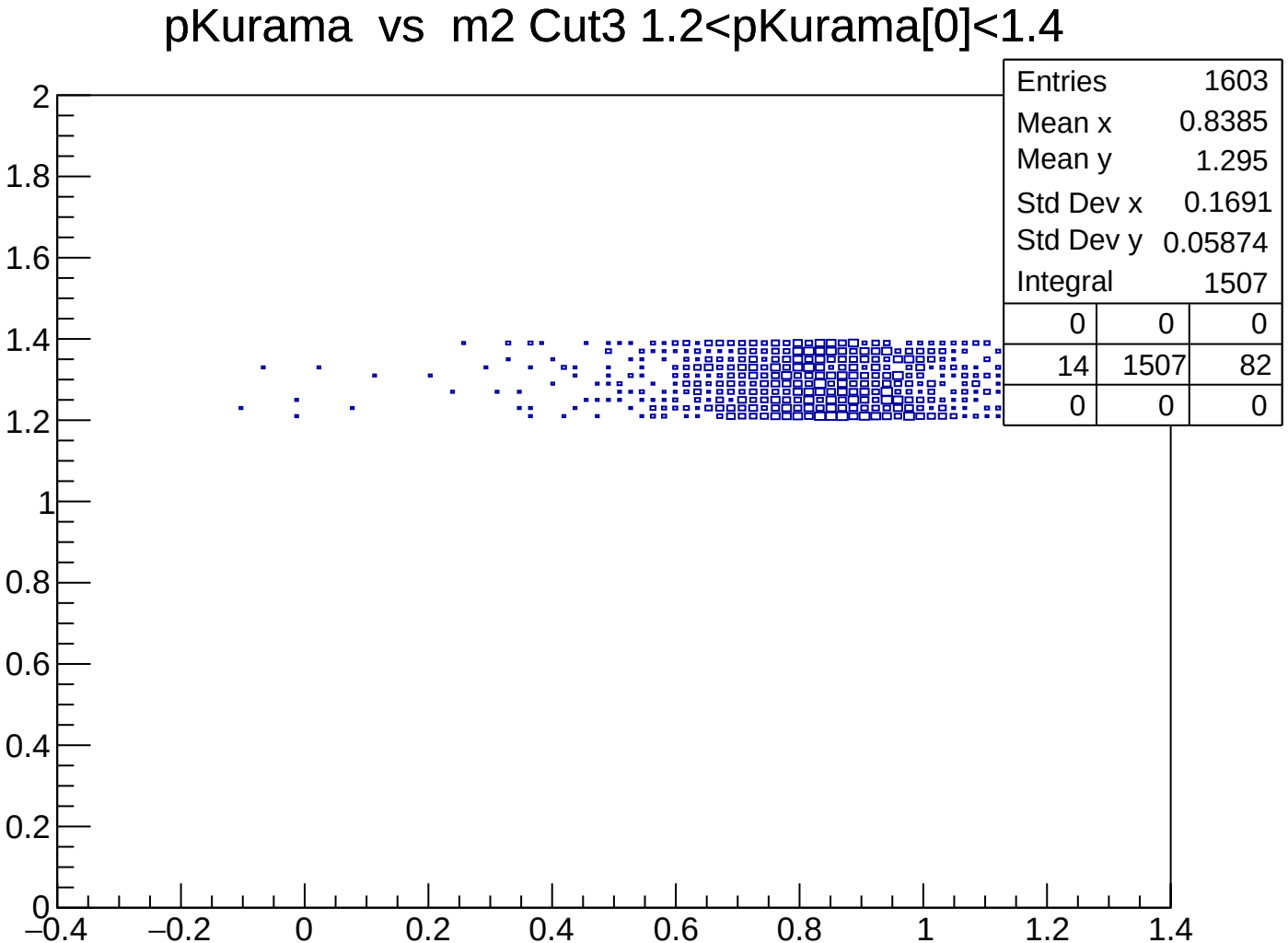
pKurama vs m2 Cut3 1<pKurama[0]<1.2

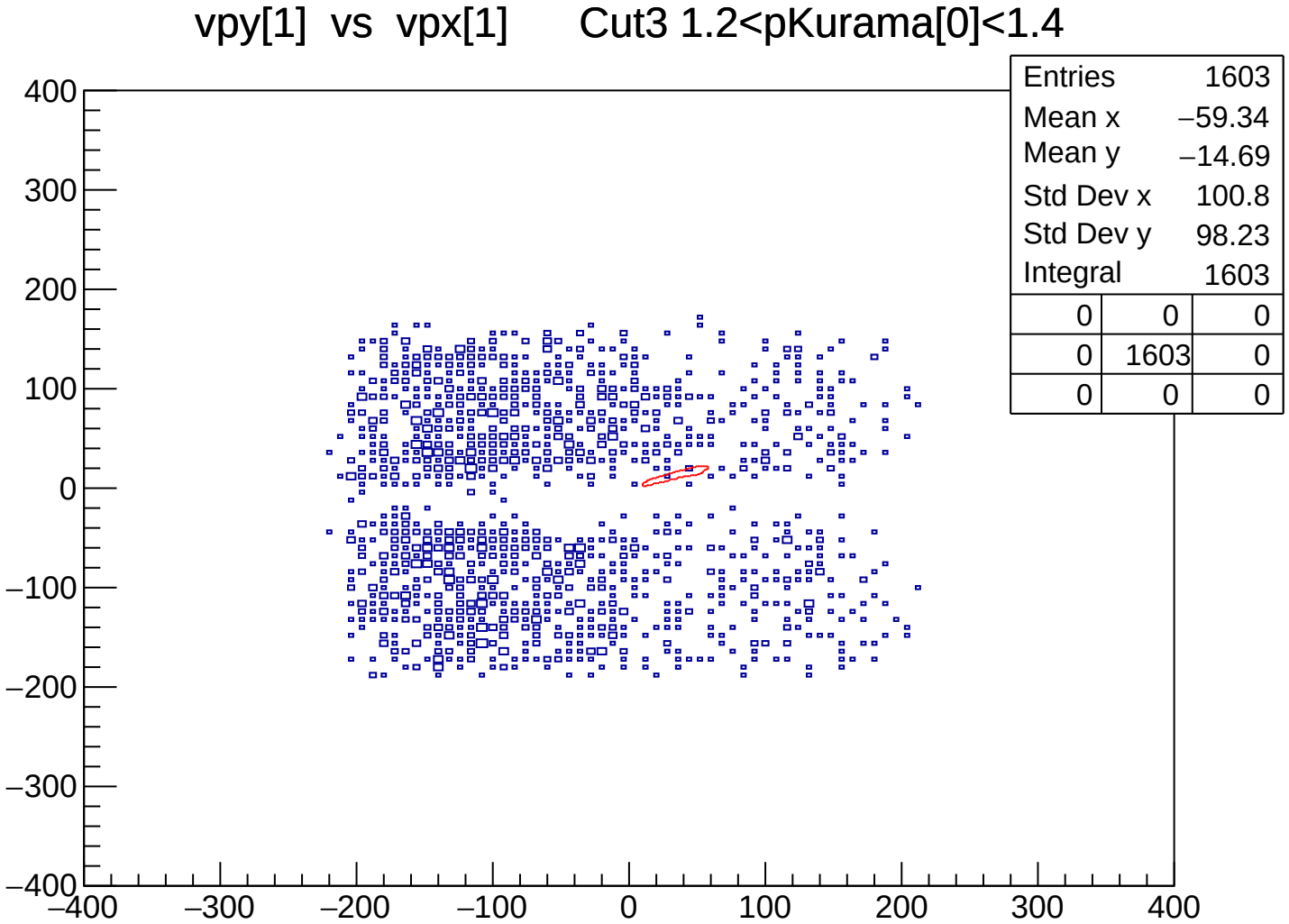


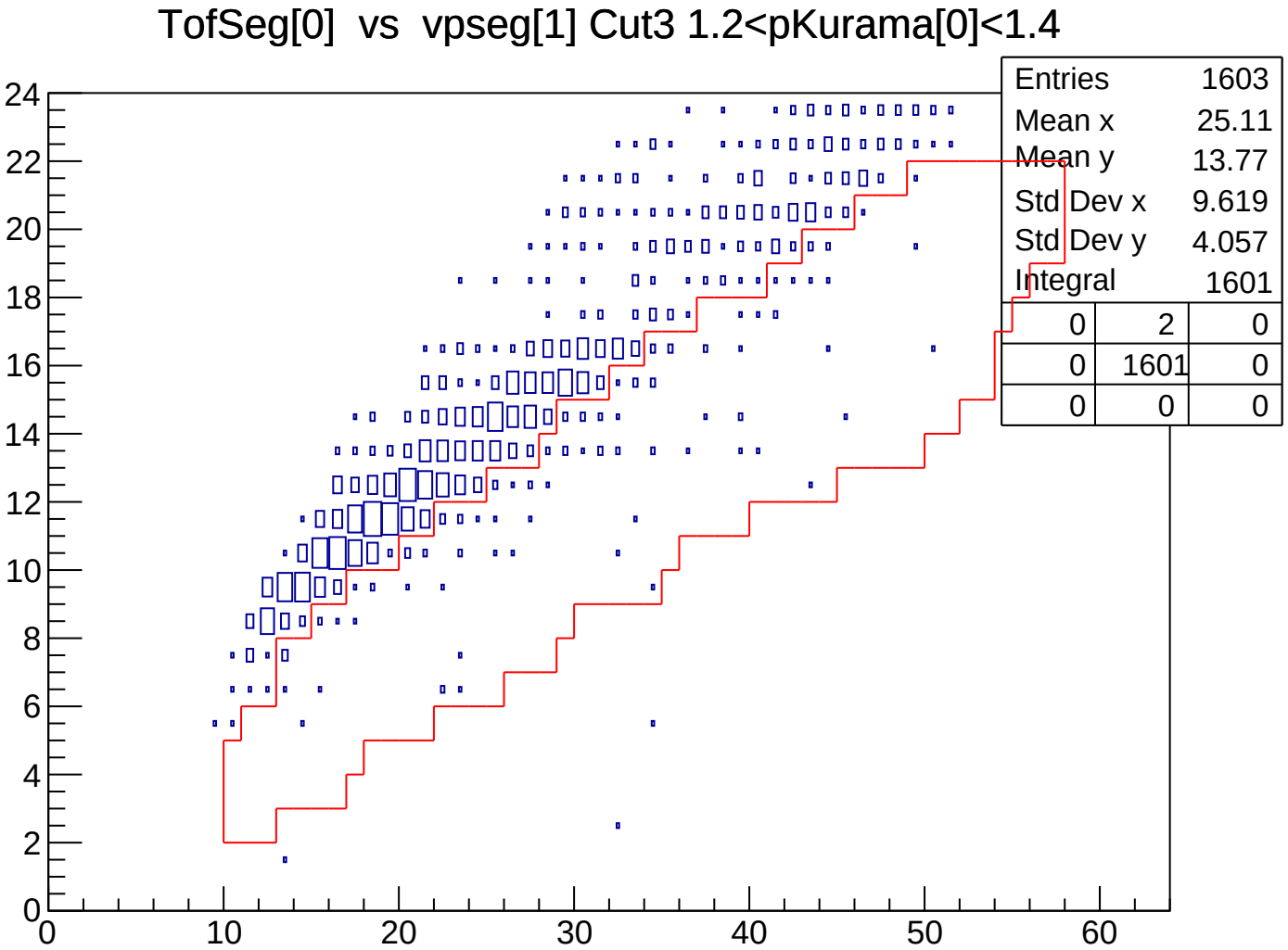

vpy[1] vs vpx[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x −60.45
Mean y −14.97
Std Dev x 99.01
Std Dev y 95.57
Integral 3285
0 0 0
0 3285 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x 25.03
Mean y 12.87
Std Dev x 9.439
Std Dev y 3.965
Integral 3284
0 1 0
0 3284 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] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 3285
Mean x 25.03
Mean y 12.1
Std Dev x 9.438
Std Dev y 3.96
Integral 3285
0 0 0
0 3285 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


pKurama vs m2 Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 0.8385
Mean y 1.295
Std Dev x 0.1691
Std Dev y 0.05874
Integral 1507
0 0 0
14 1507 82
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


vpy[1] vs vpx[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x −59.34
Mean y −14.69
Std Dev x 100.8
Std Dev y 98.23
Integral 1603
0 0 0
0 1603 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 25.11
Mean y 13.77
Std Dev x 9.619
Std Dev y 4.057
Integral 1601
0 2 0
0 1601 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
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30
40
50
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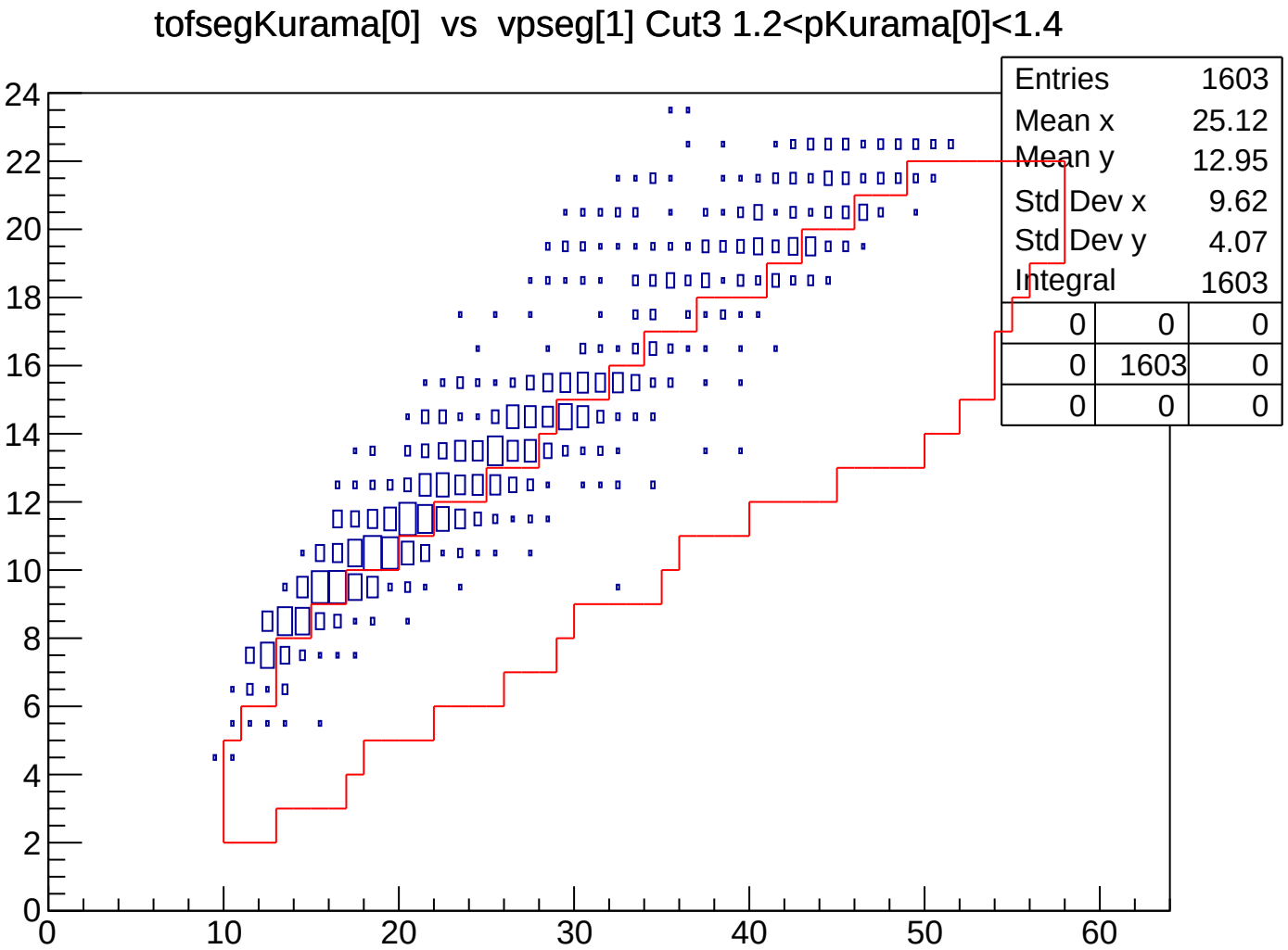
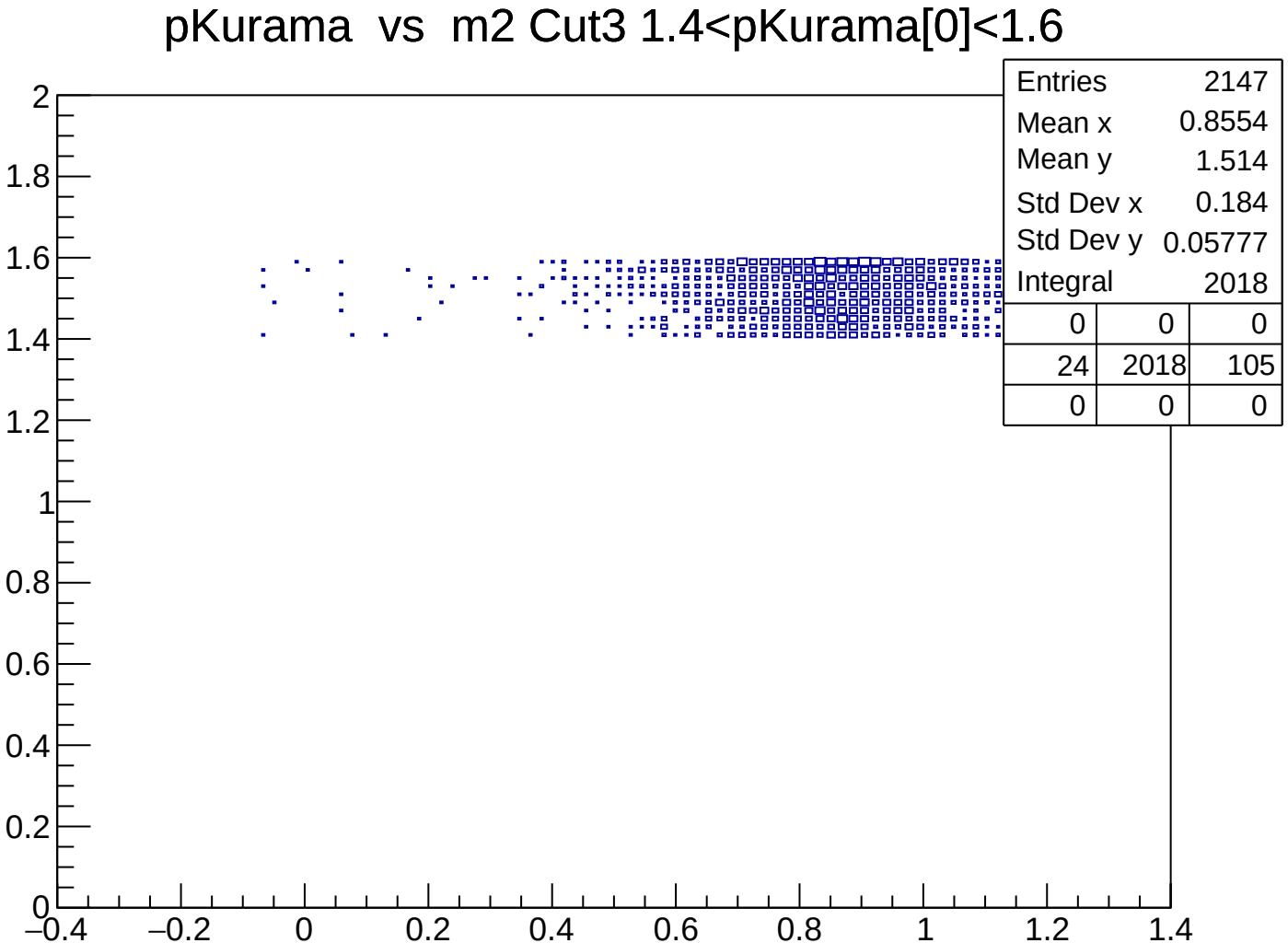
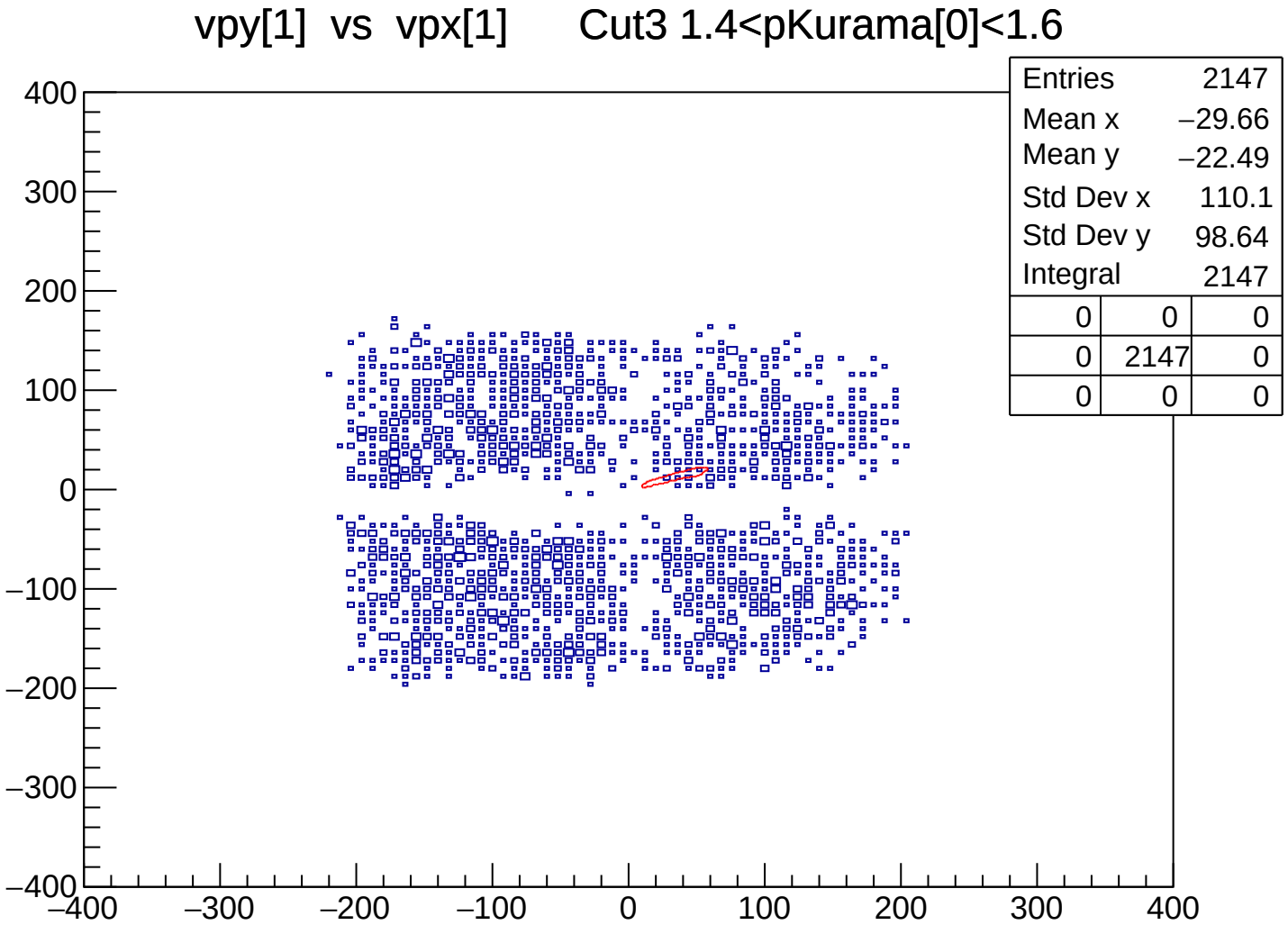
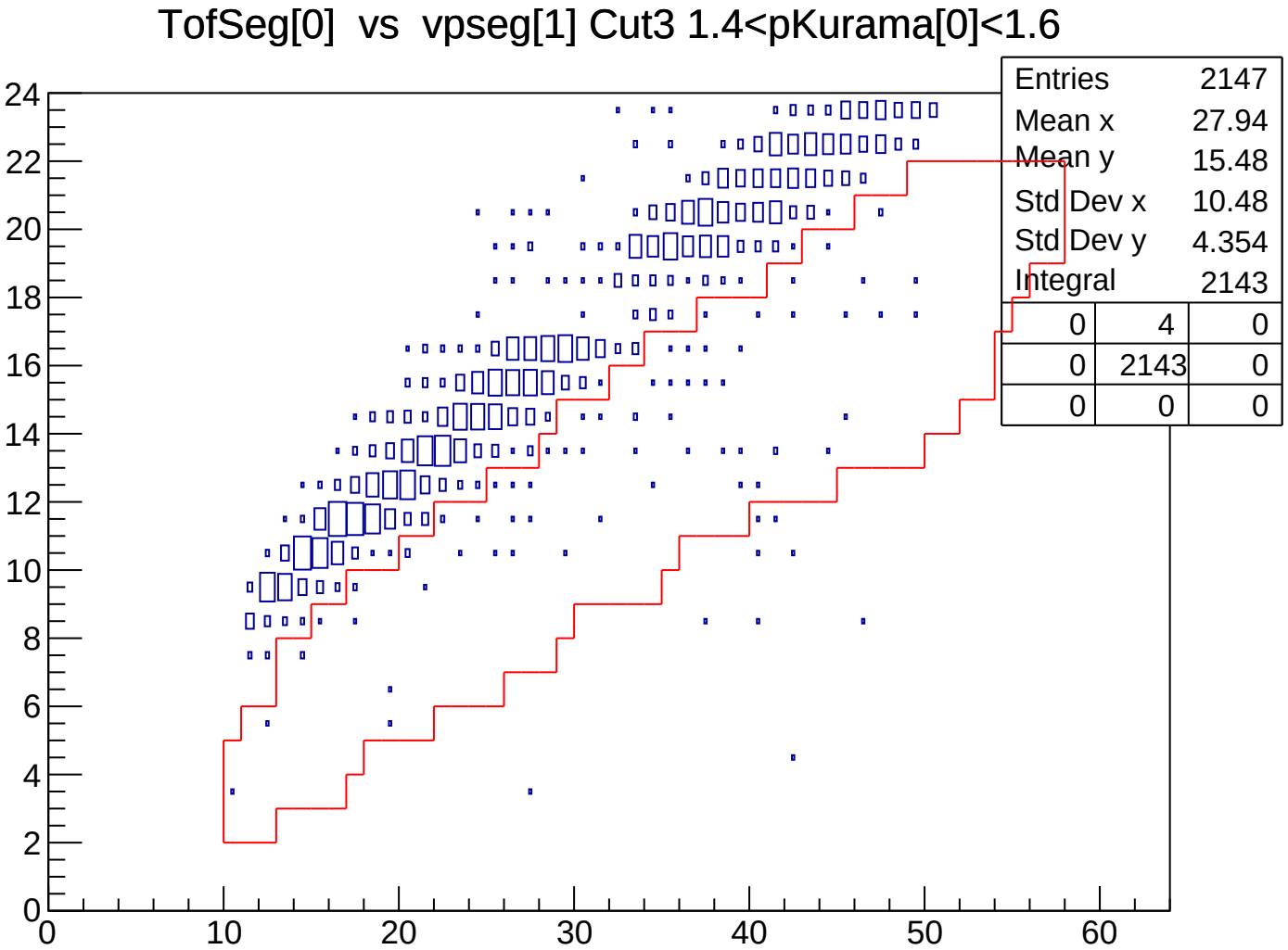
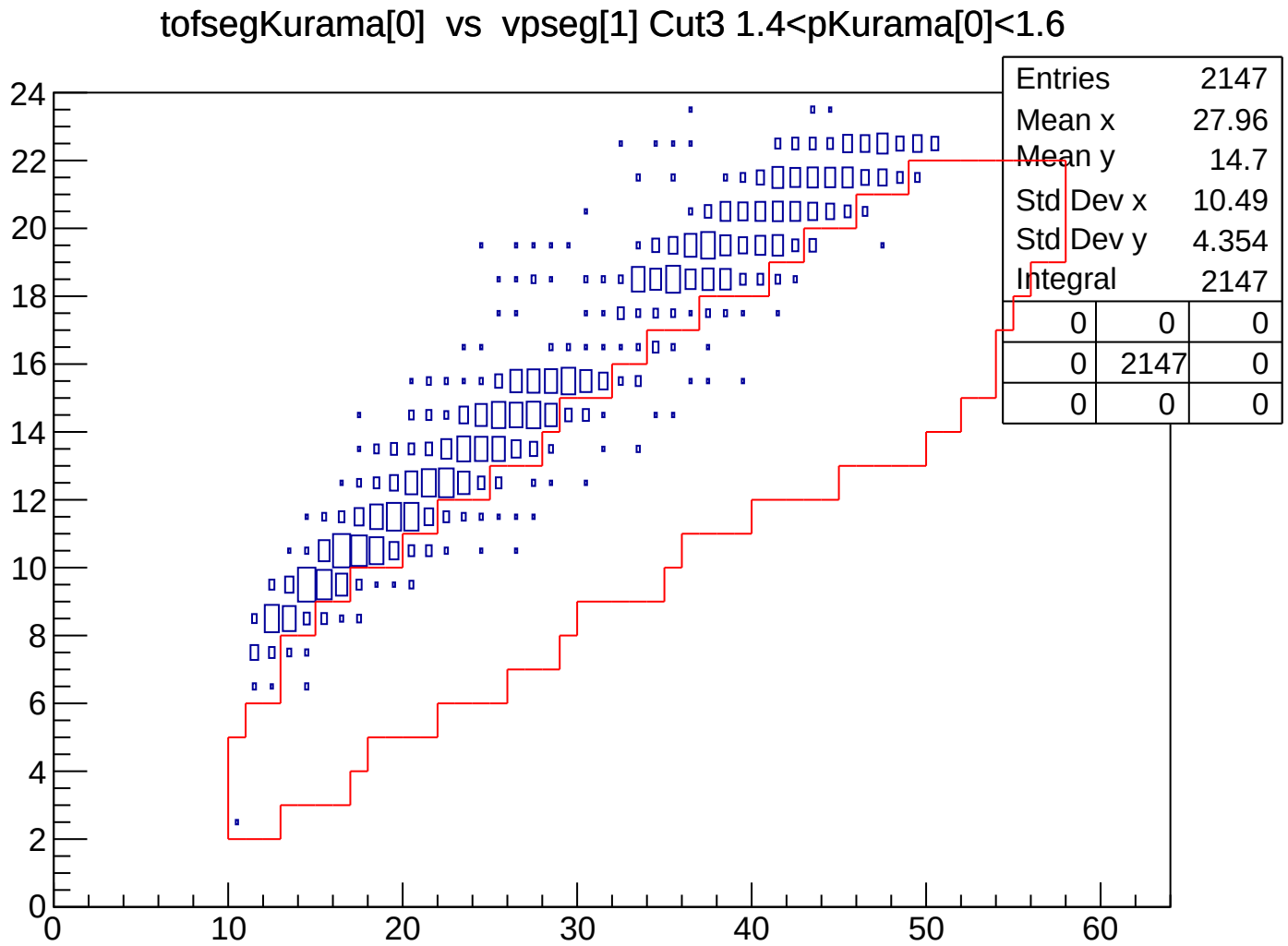

tofsegKurama[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 1603
Mean x 25.12
Mean y 12.95
Std Dev x 9.62
Std Dev y 4.07
Integral 1603
0 0 0
0 1603 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


pKurama vs m2 Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 0.8554
Mean y 1.514
Std Dev x 0.184
Std Dev y 0.05777
Integral 2018
0 0 0
24 2018 105
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


vpy[1] vs vpx[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x −29.66
Mean y −22.49
Std Dev x 110.1
Std Dev y 98.64
Integral 2147
0 0 0
0 2147 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 27.94
Mean y 15.48
Std Dev x 10.48
Std Dev y 4.354
Integral 2143
0 4 0
0 2143 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] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 2147
Mean x 27.96
Mean y 14.7
Std Dev x 10.49
Std Dev y 4.354
Integral 2147
0 0 0
0 2147 0
0 0 0
0
2
4
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8
10
12
14
16
18
20
22
24
0
10
20
30
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50
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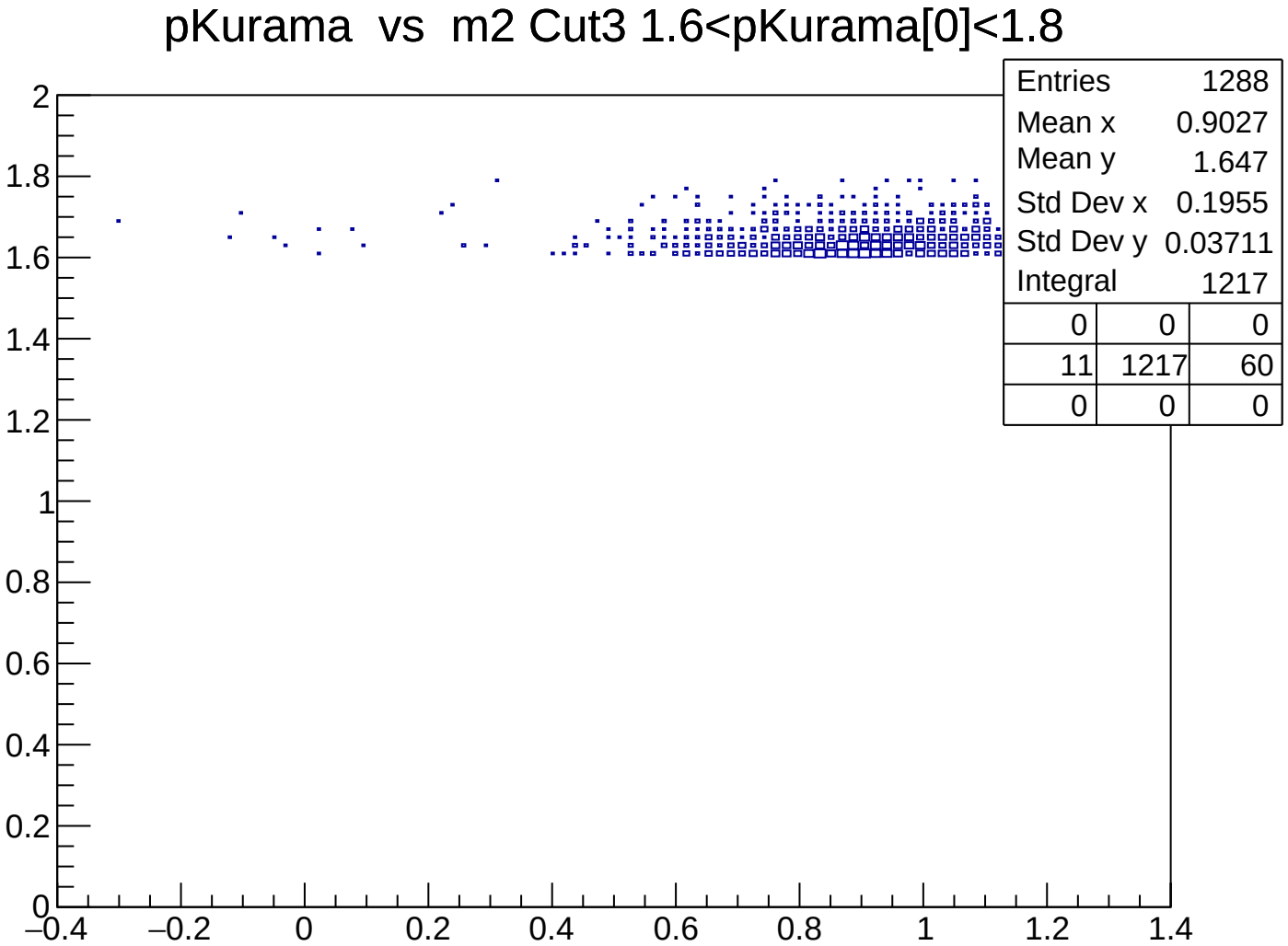
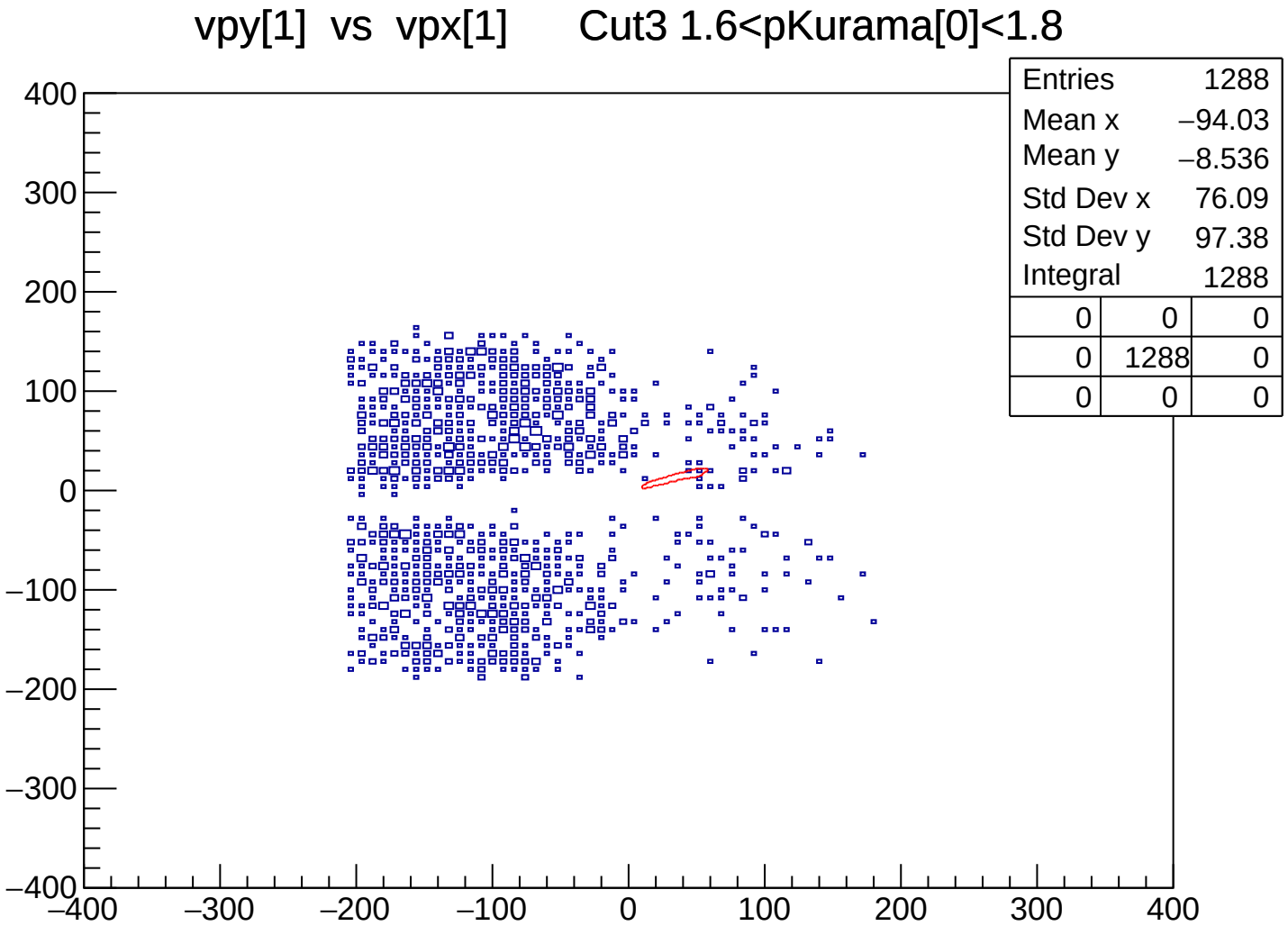
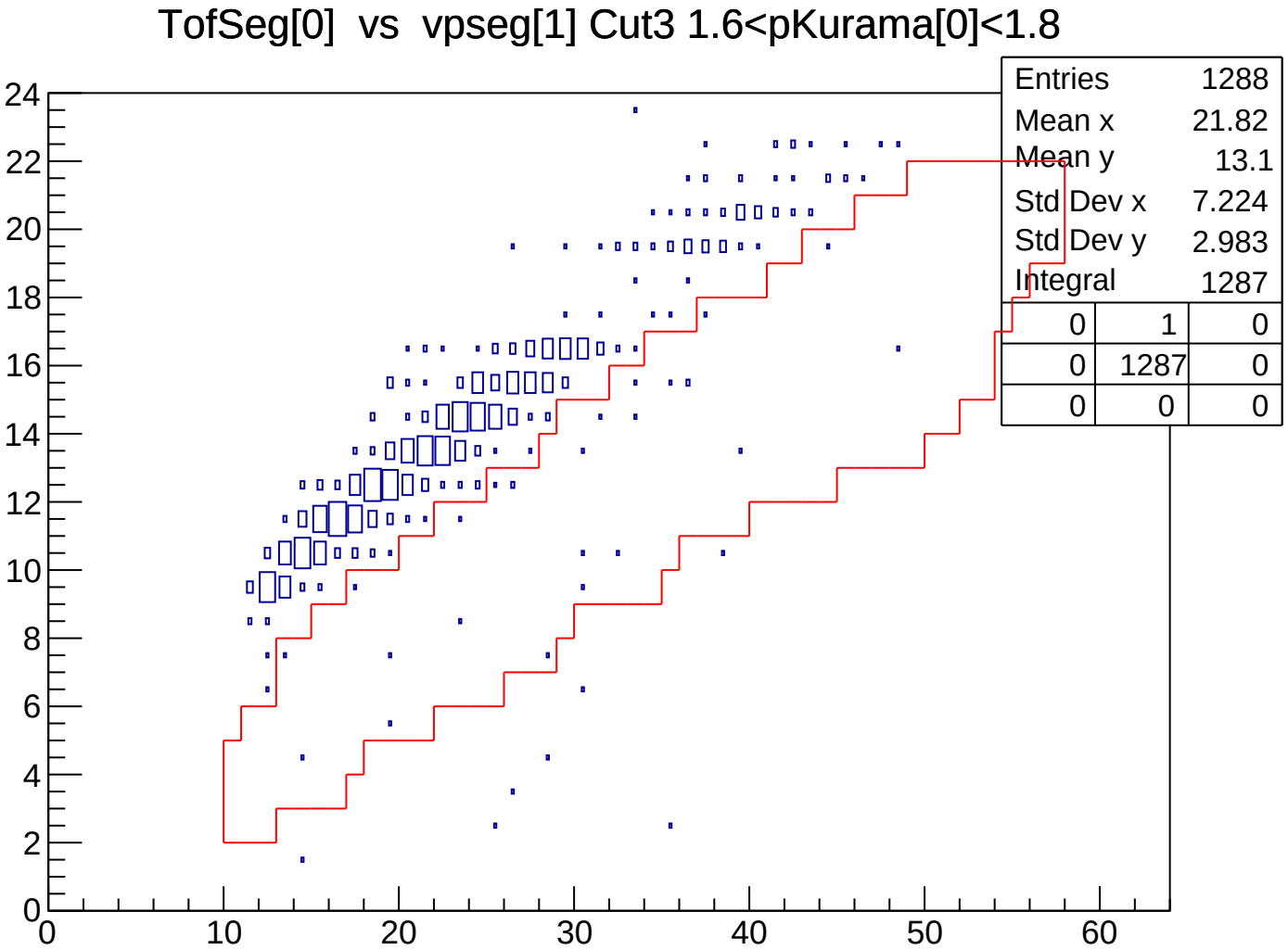

pKurama vs m2 Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 0.9027
Mean y 1.647
Std Dev x 0.1955
Std Dev y 0.03711
Integral 1217
0 0 0
11 1217 60
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


vpy[1] vs vpx[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x −94.03
Mean y −8.536
Std Dev x 76.09
Std Dev y 97.38
Integral 1288
0 0 0
0 1288 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 21.82
Mean y 13.1
Std Dev x 7.224
Std Dev y 2.983
Integral 1287
0 1 0
0 1287 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
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30
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50
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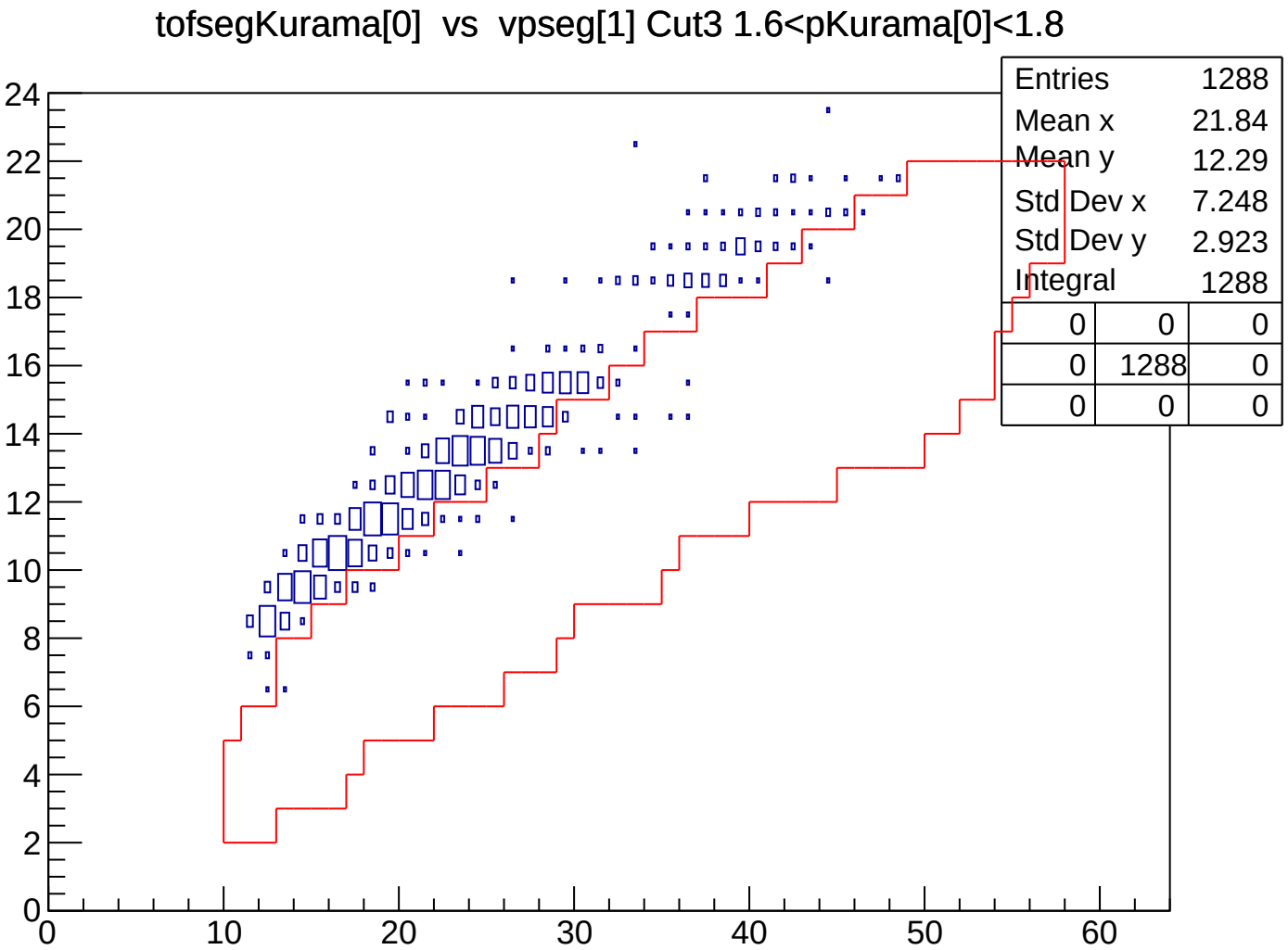
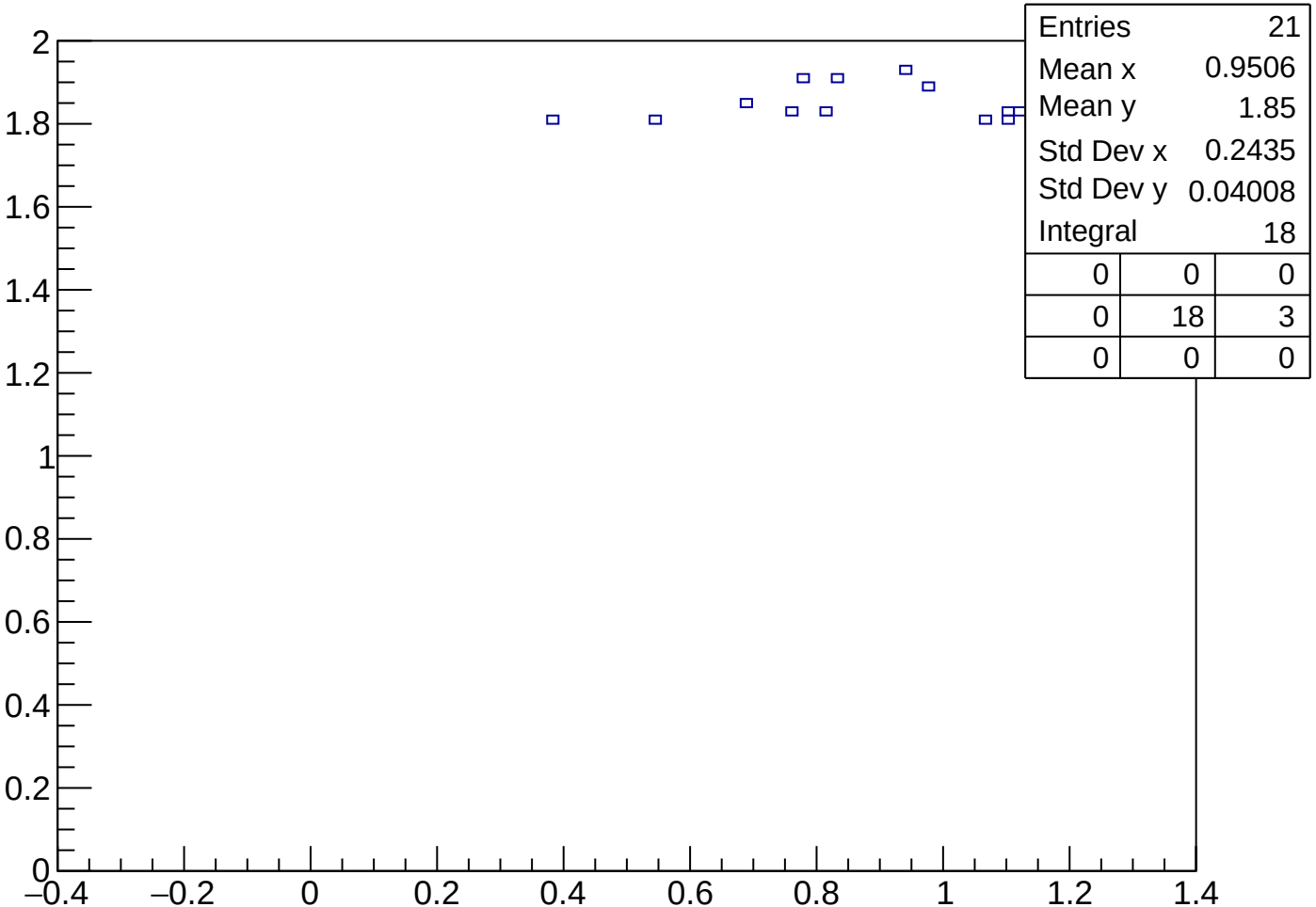
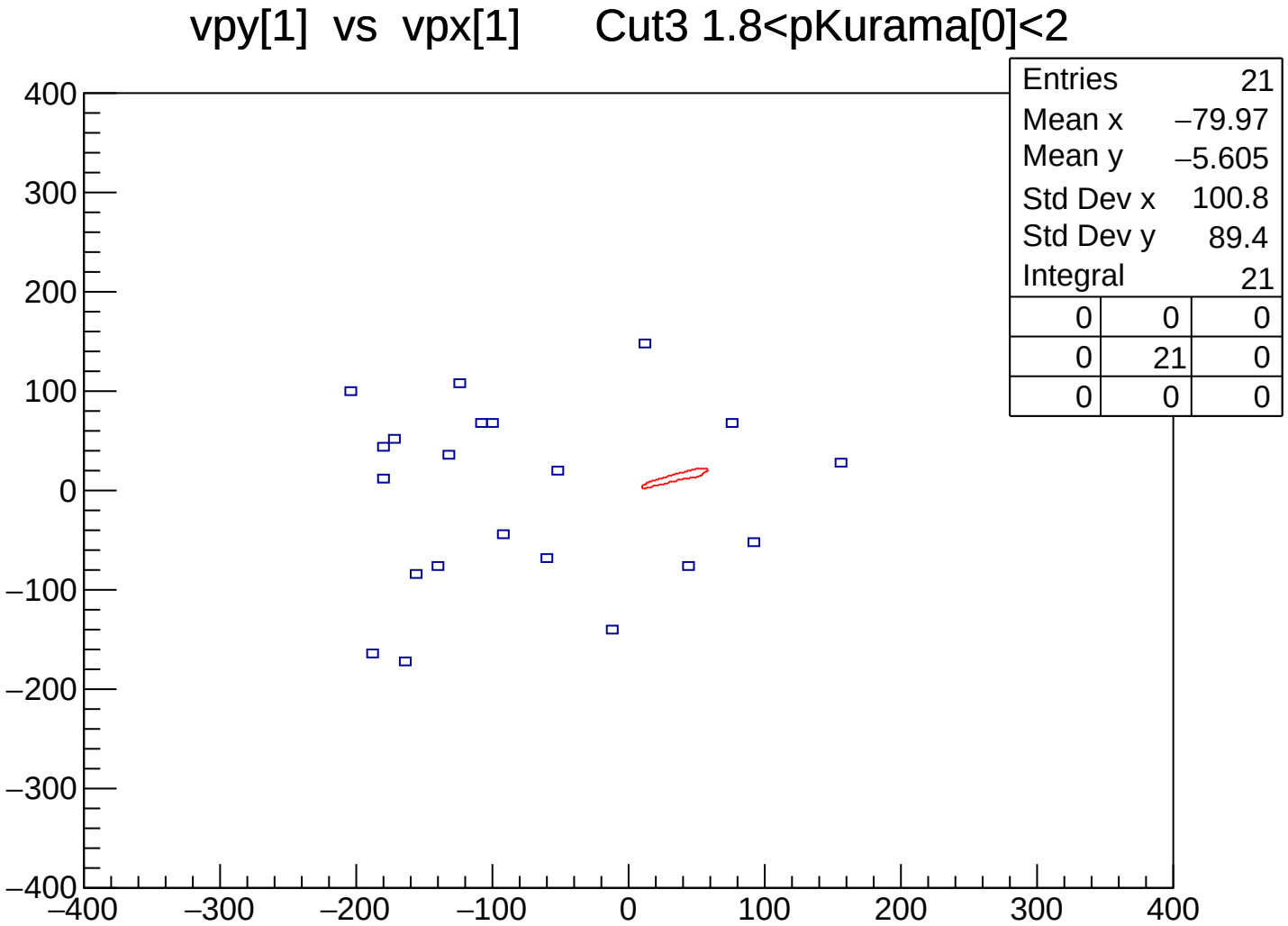
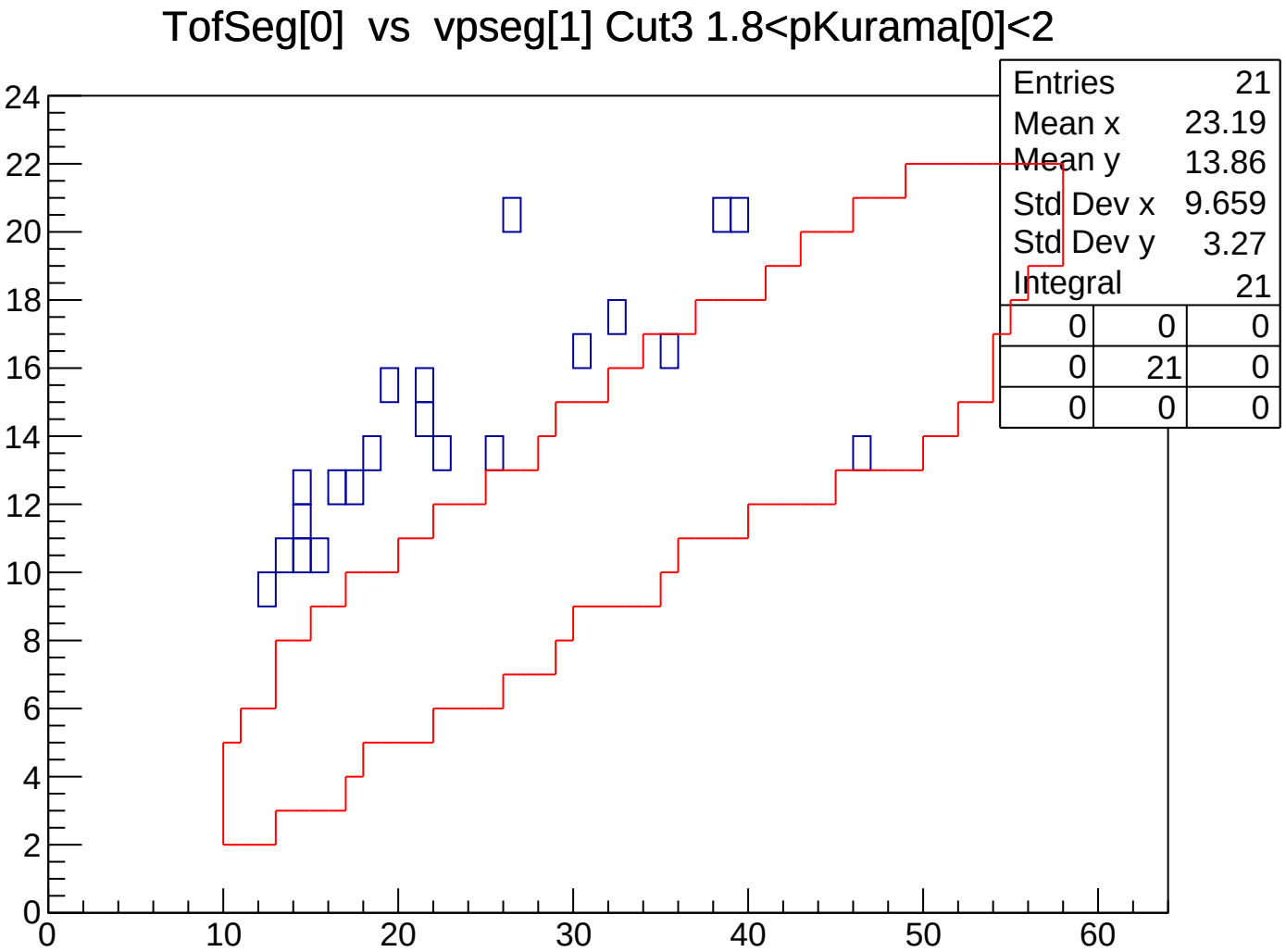
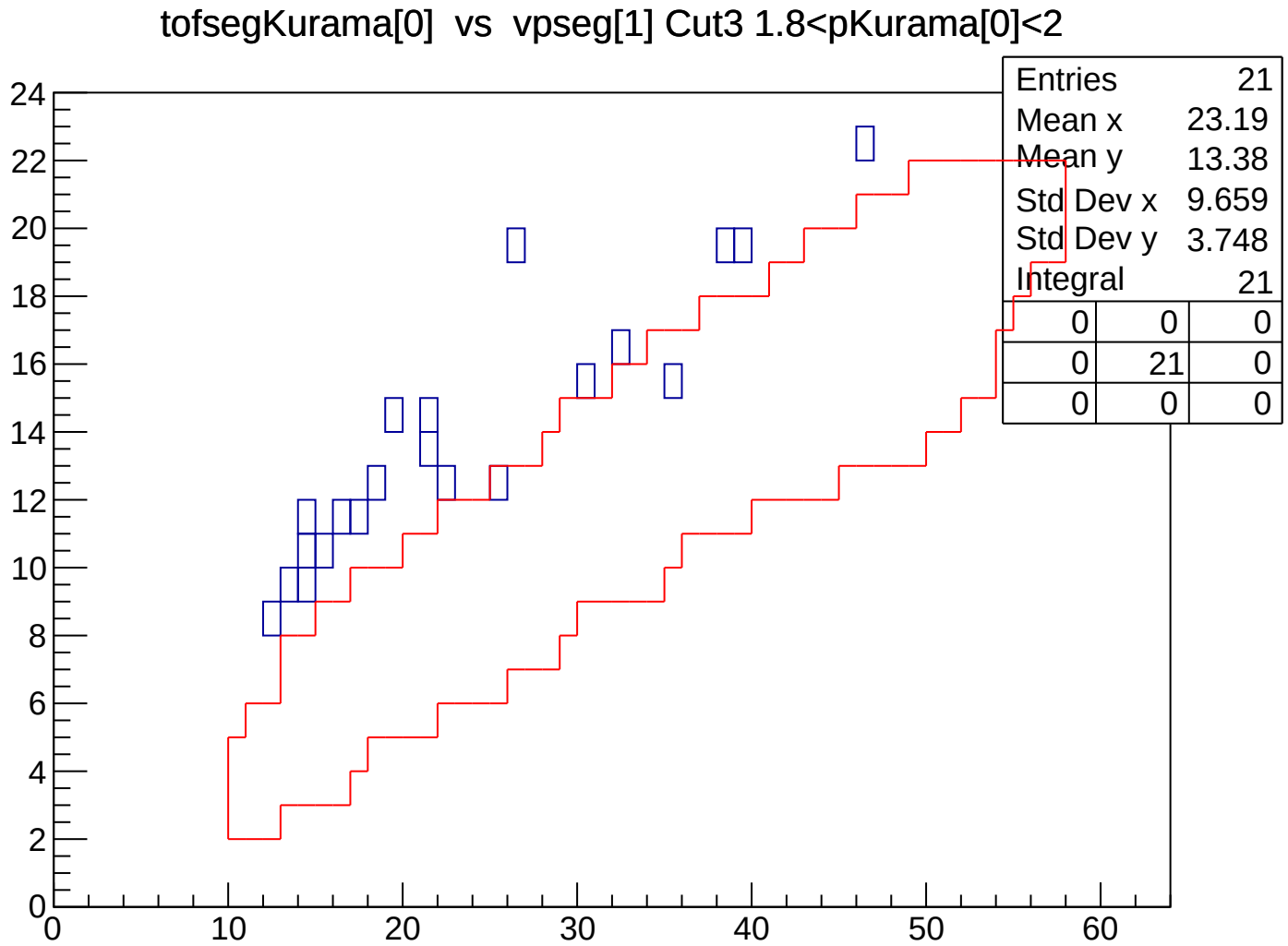

tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 1288
Mean x 21.84
Mean y 12.29
Std Dev x 7.248
Std Dev y 2.923
Integral 1288
0 0 0
0 1288 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 1.8<pKurama[0]<2

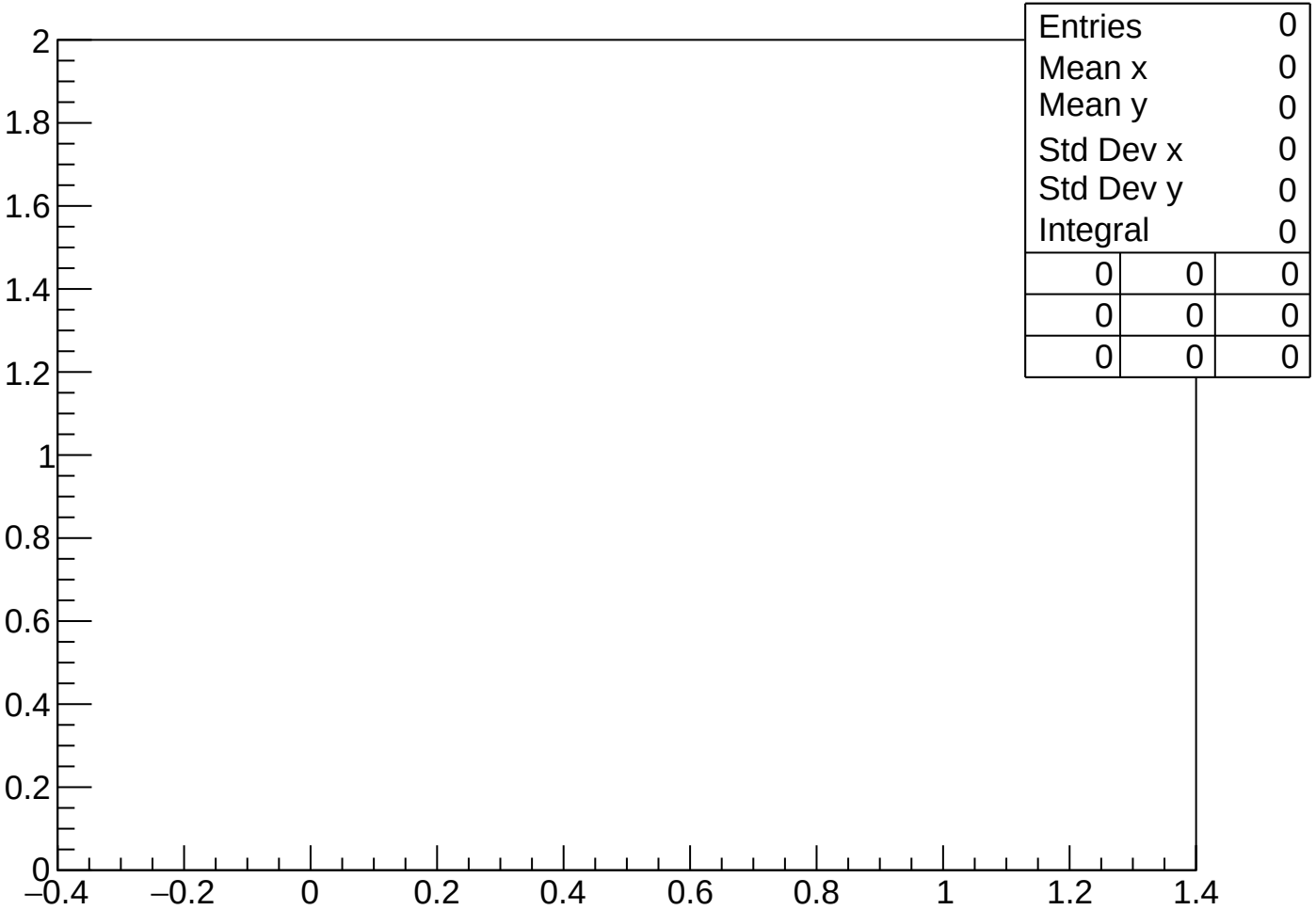


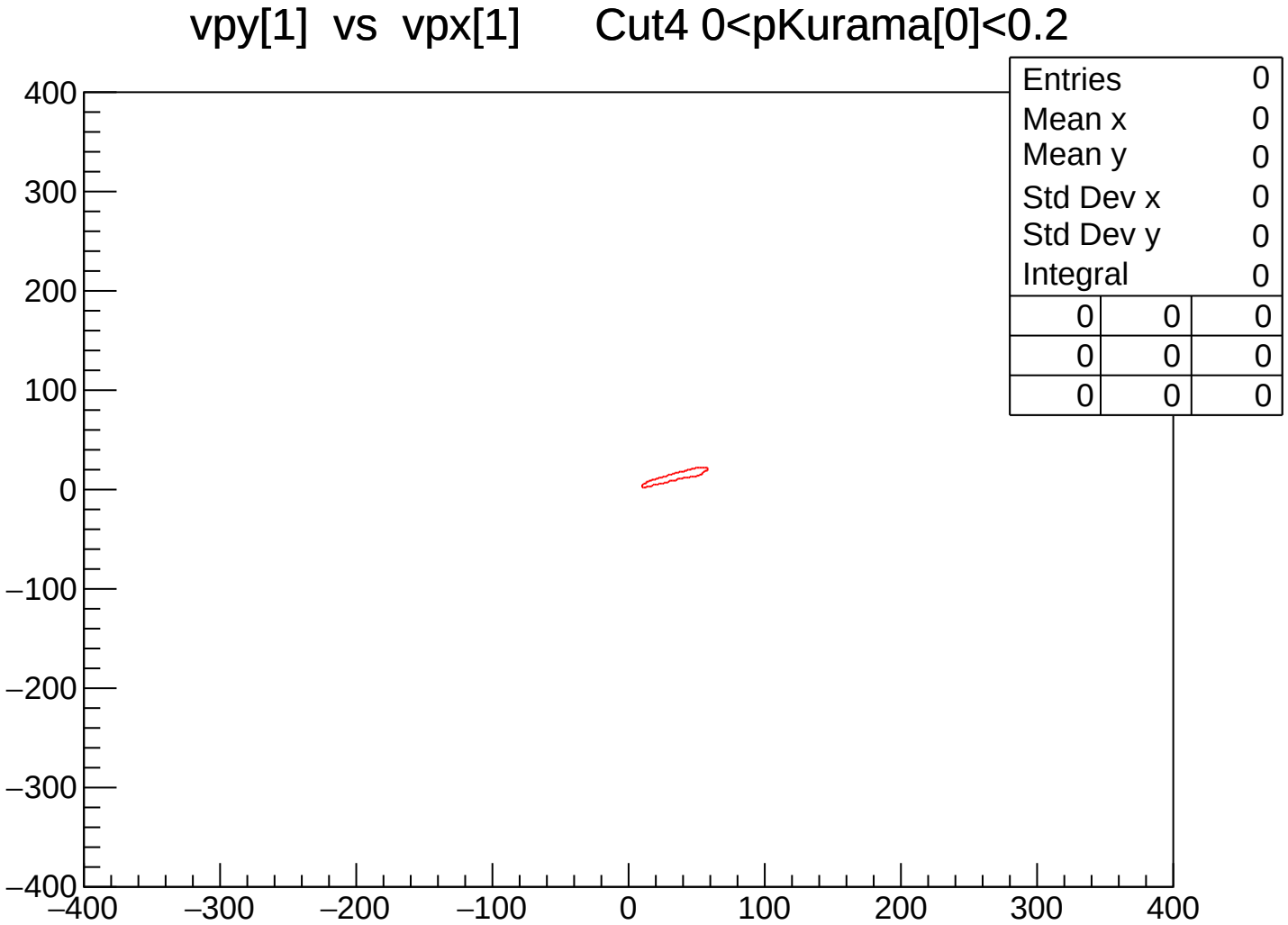

vpy[1] vs vpx[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x −79.97
Mean y −5.605
Std Dev x 100.8
Std Dev y 89.4
Integral 21
0 0 0
0 21 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

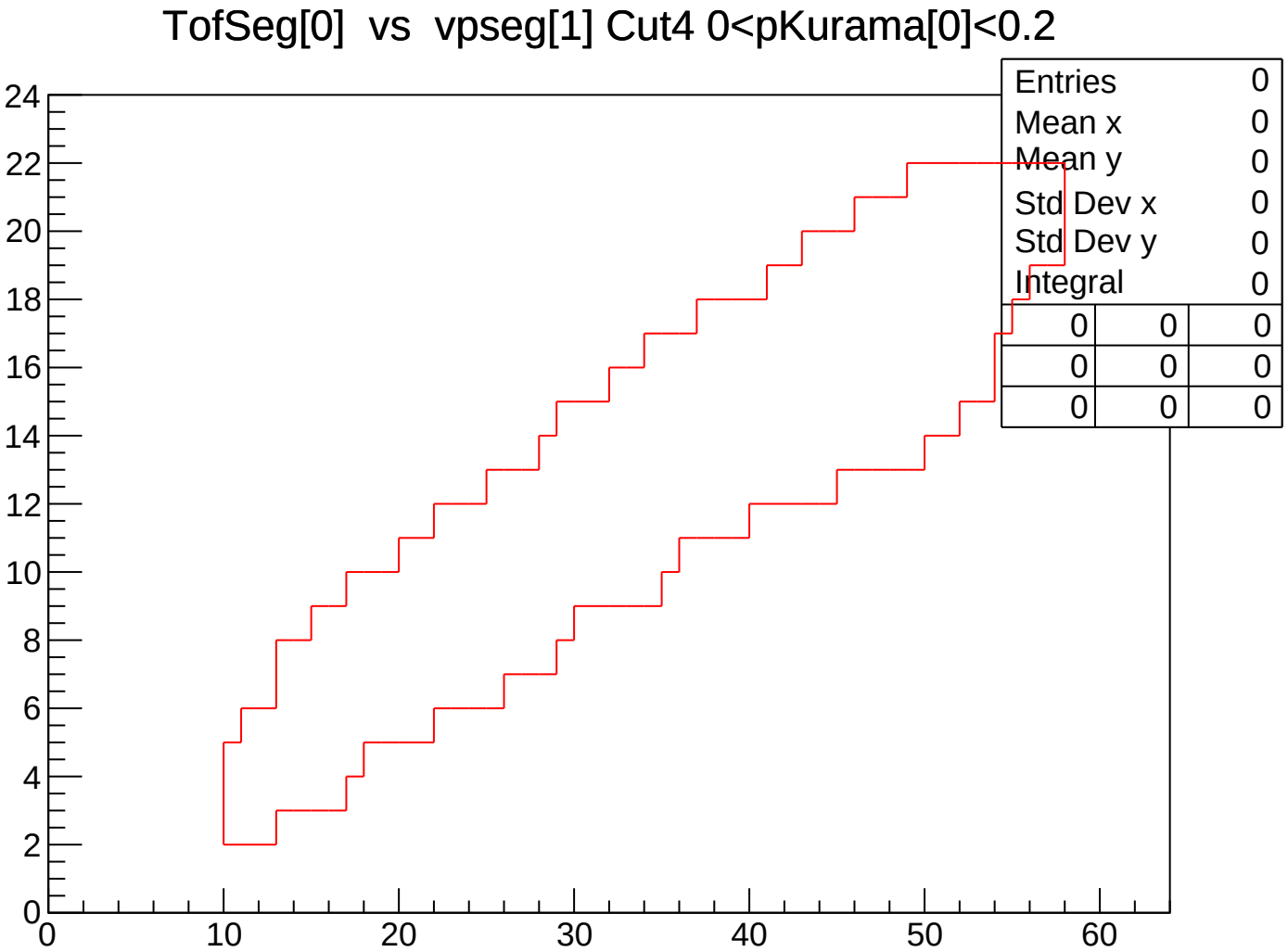

TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x 23.19
Mean y 13.86
Std Dev x 9.659
Std Dev y 3.27
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

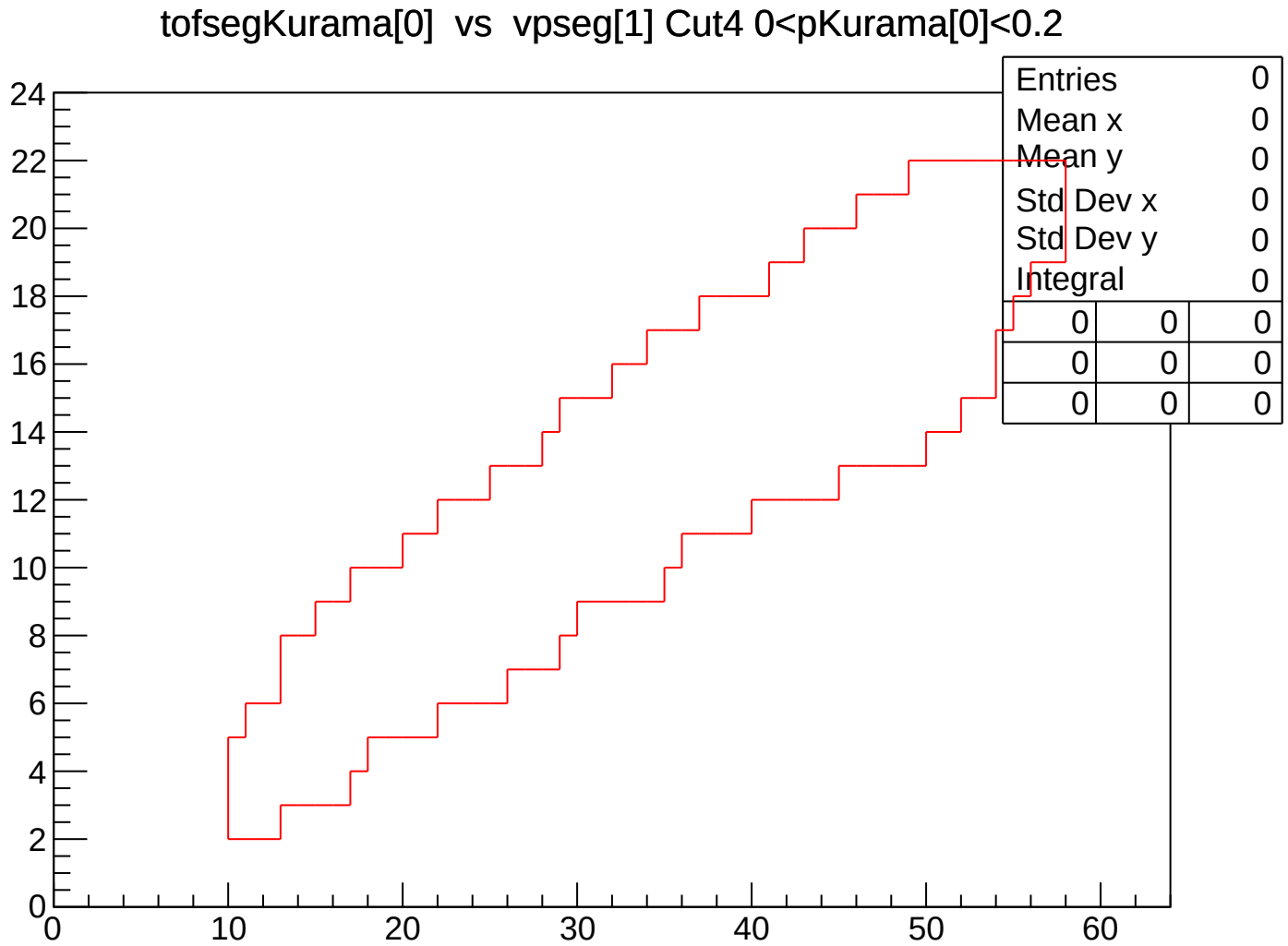

tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 21
Mean x 23.19
Mean y 13.38
Std Dev x 9.659
Std Dev y 3.748
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 0<pKurama[0]<0.2

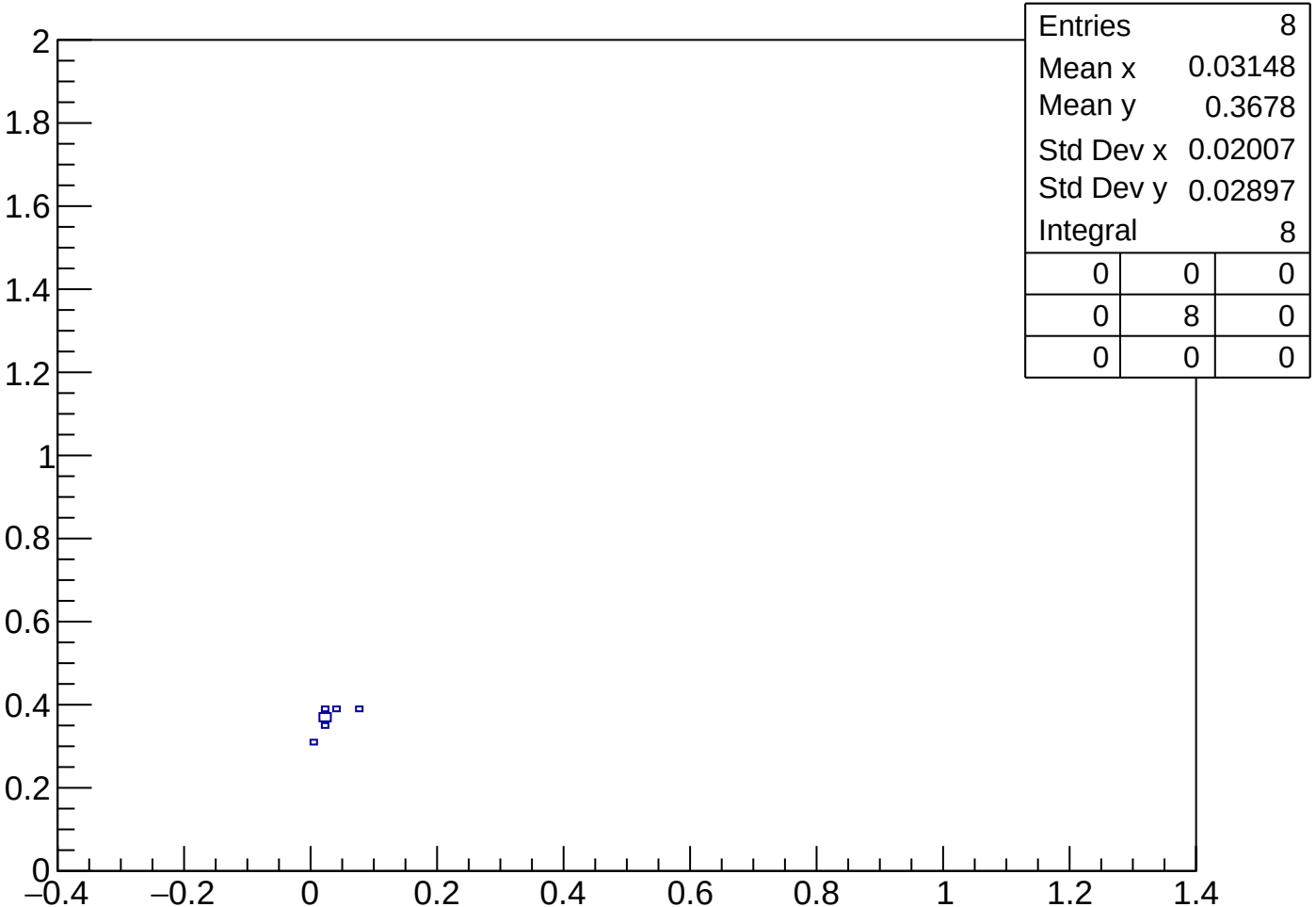


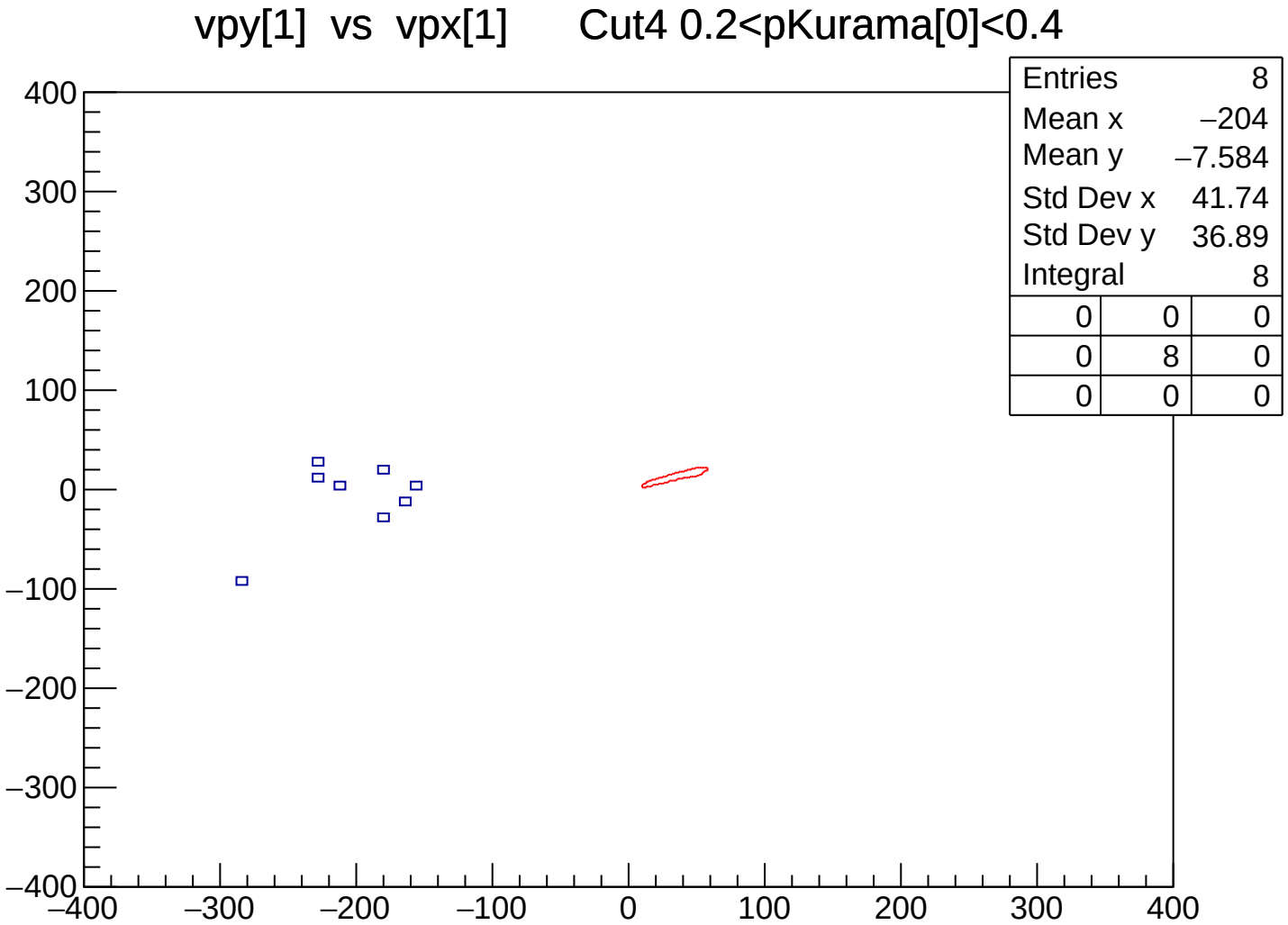

vpy[1] vs vpx[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

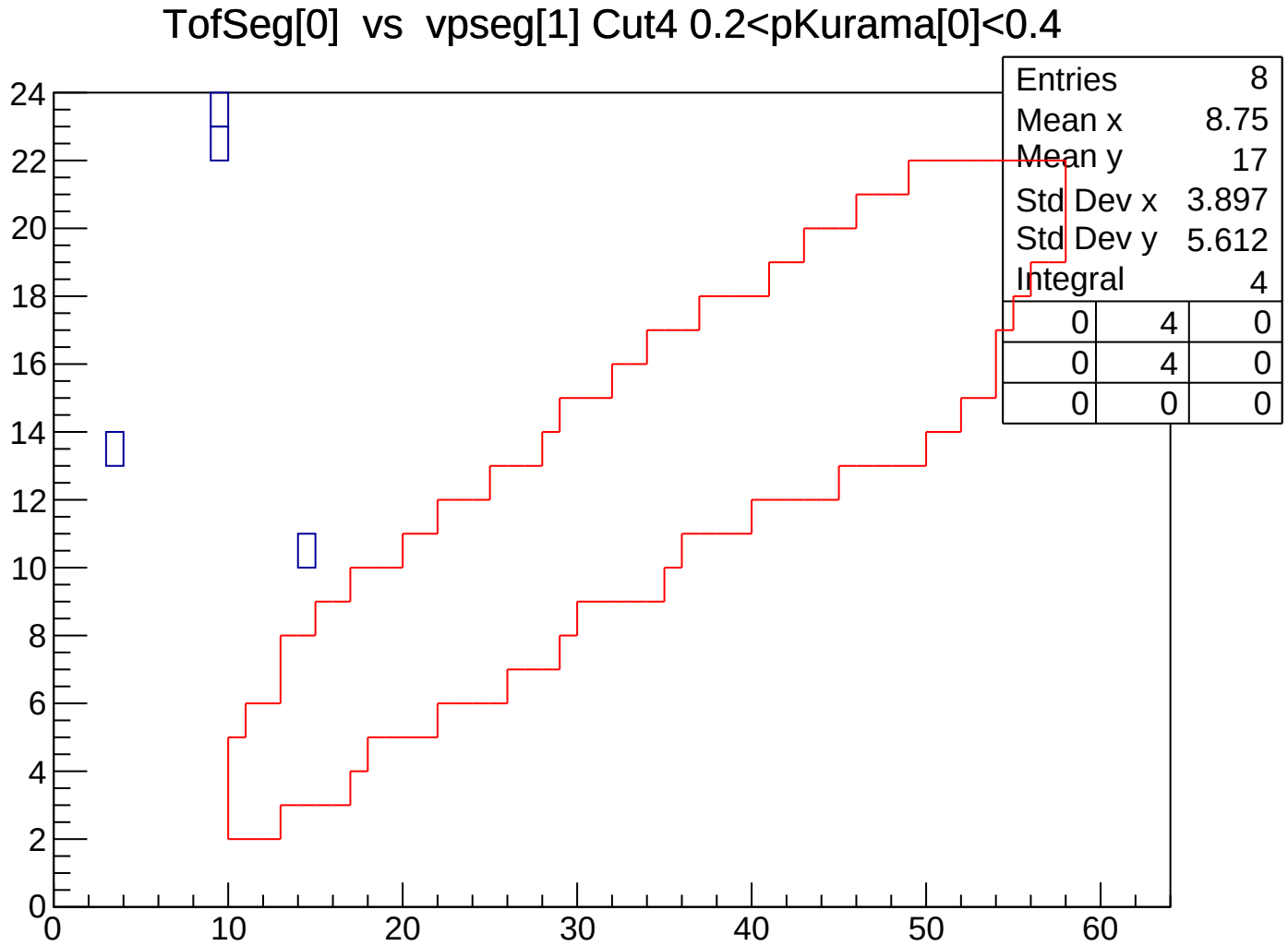

TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

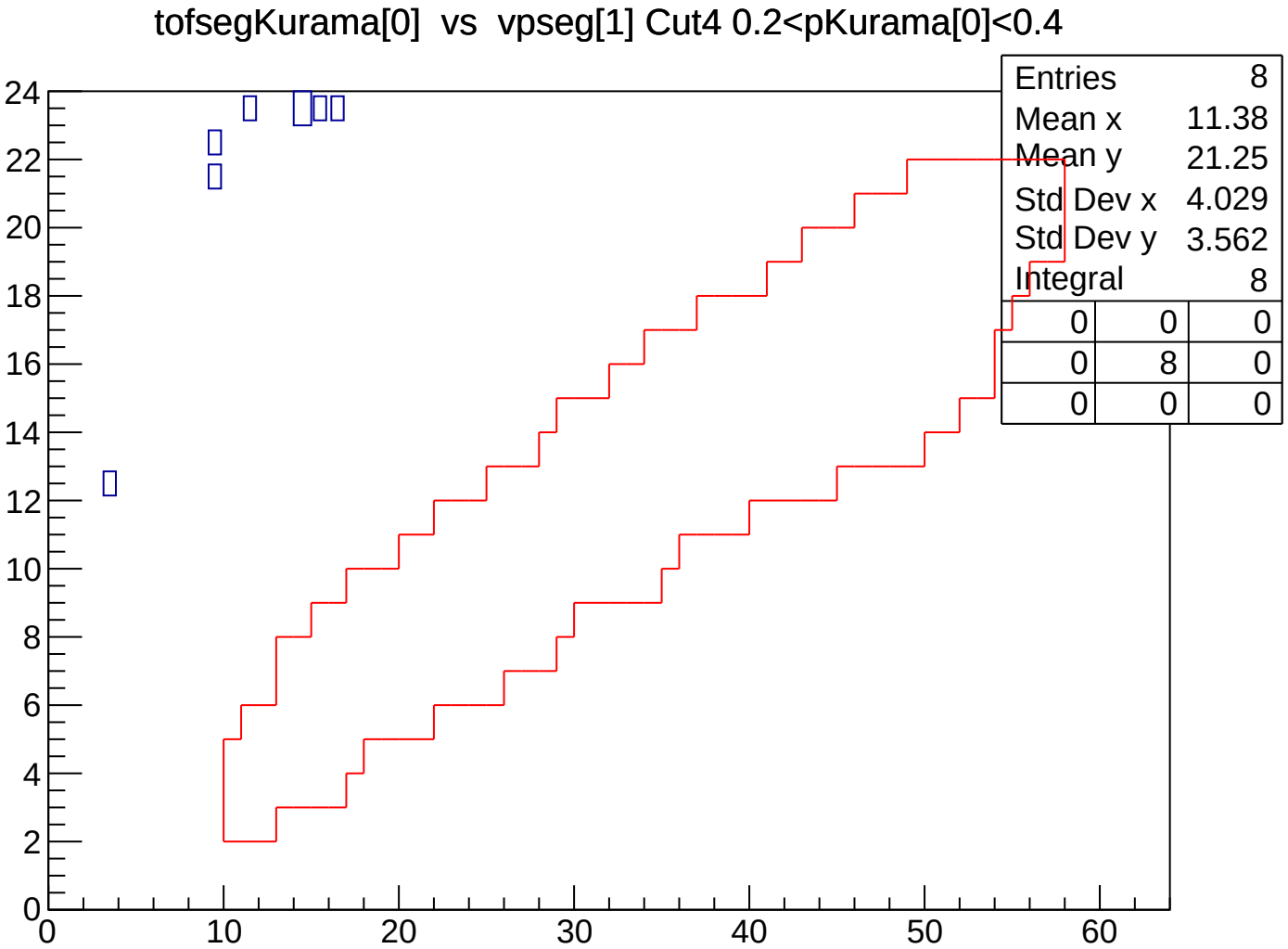

tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 0.2<pKurama[0]<0.4

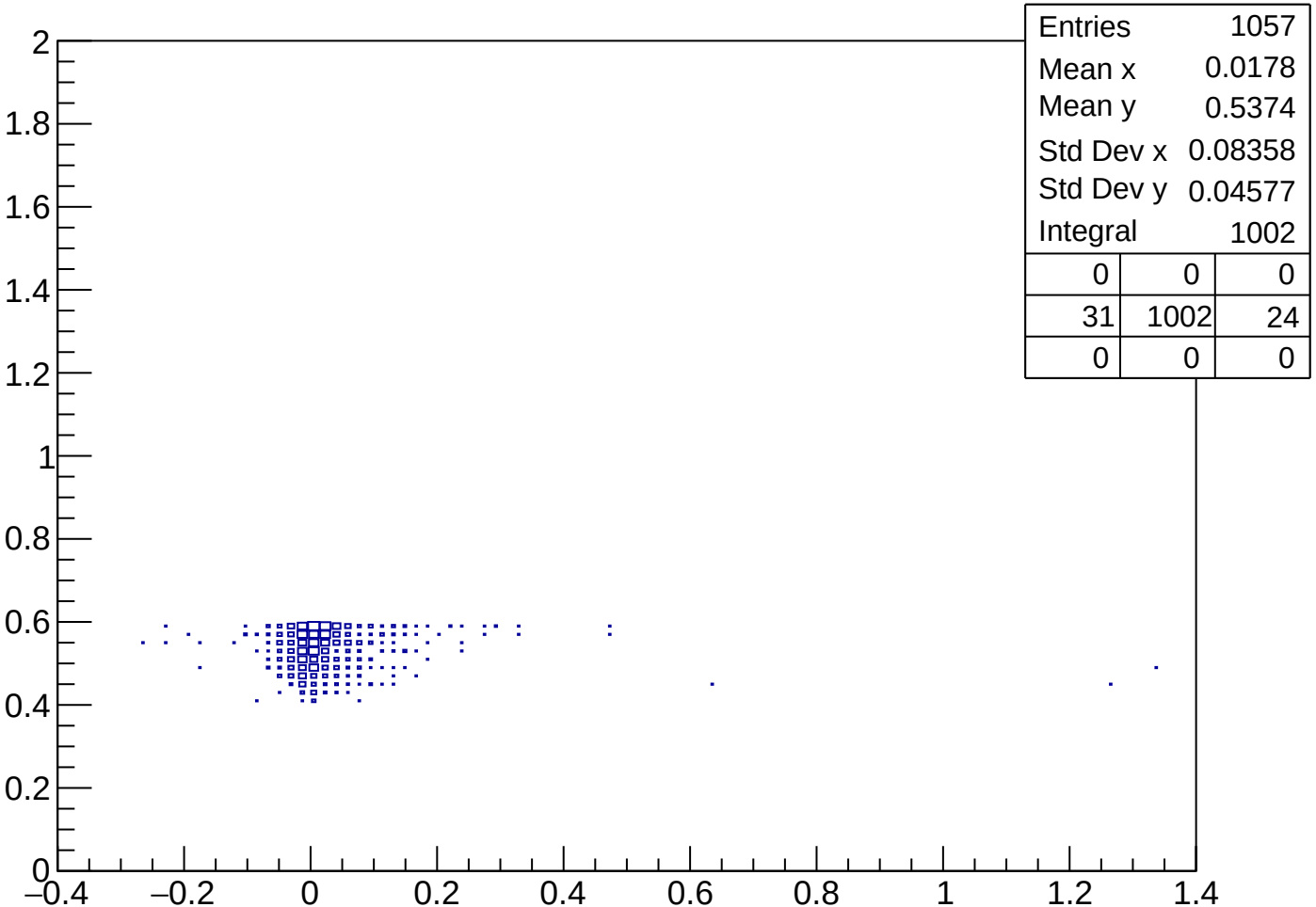


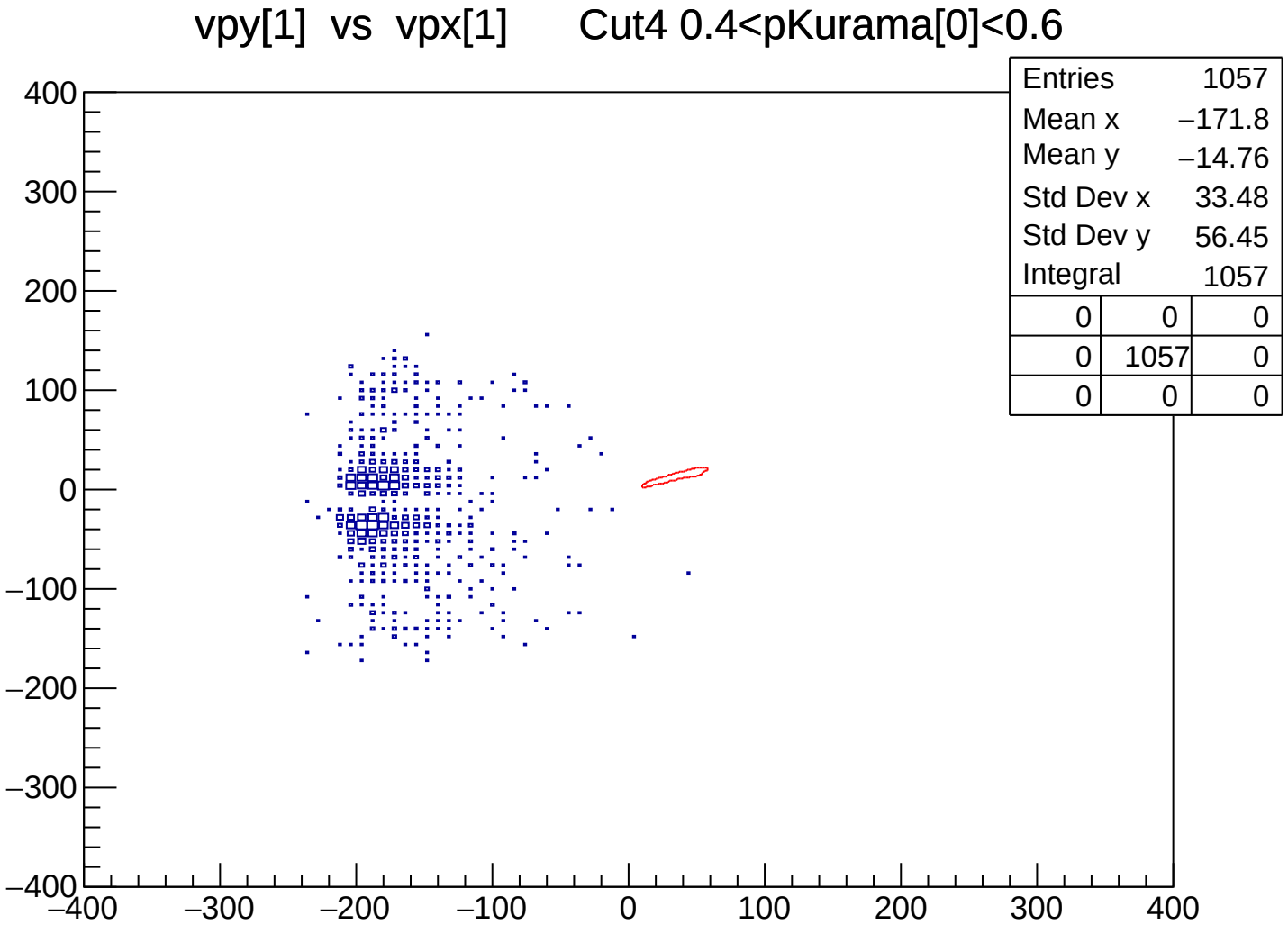

vpy[1] vs vpx[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x −204
Mean y −7.584
Std Dev x 41.74
Std Dev y 36.89
Integral 8
0 0 0
0 8 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

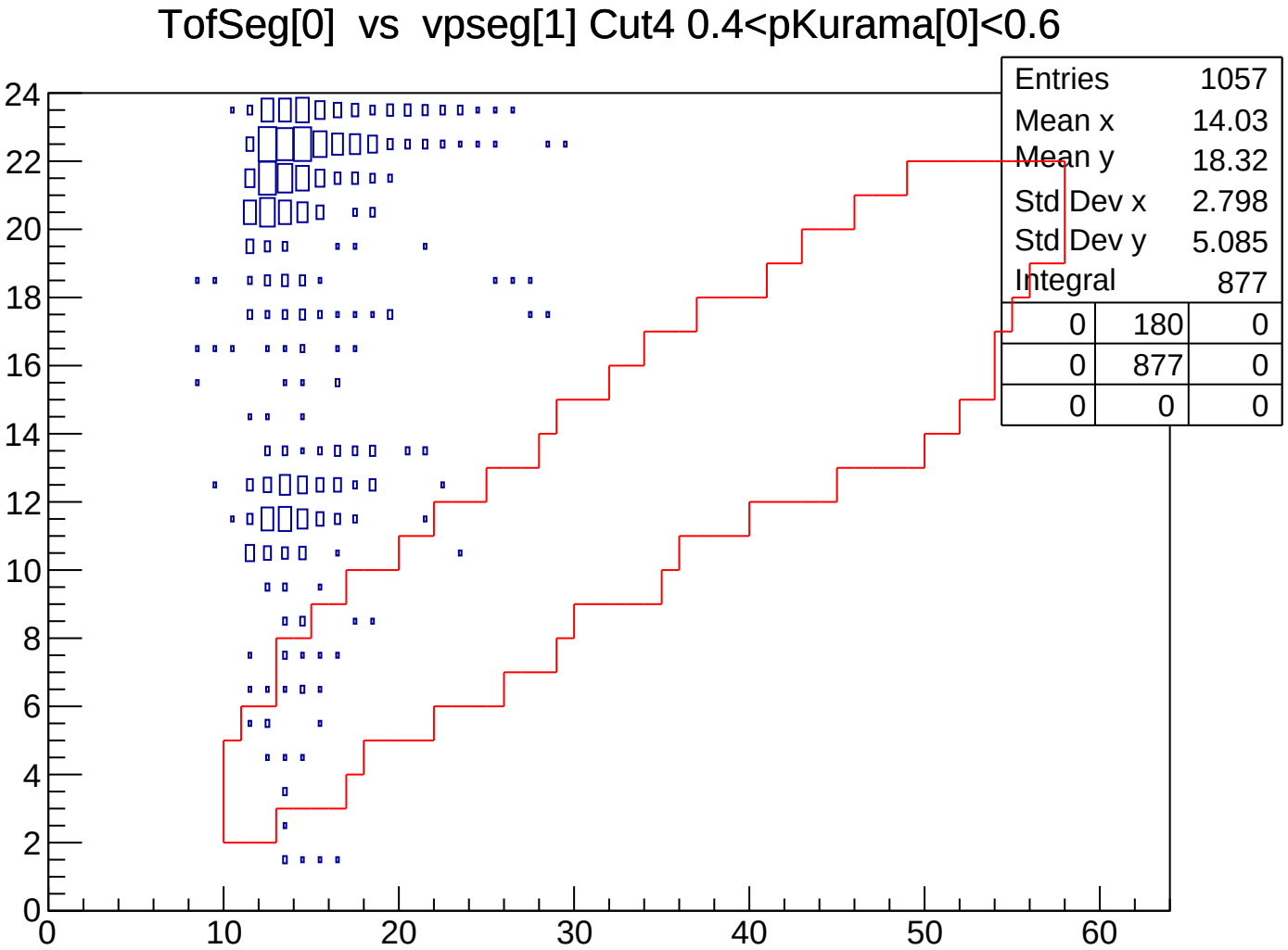

TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x 8.75
Mean y 17
Std Dev x 3.897
Std Dev y 5.612
Integral 4
0 4 0
0 4 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 8
Mean x 11.38
Mean y 21.25
Std Dev x 4.029
Std Dev y 3.562
Integral 8
0 0 0
0 8 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 0.4<pKurama[0]<0.6




vpy[1] vs vpx[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x −171.8
Mean y −14.76
Std Dev x 33.48
Std Dev y 56.45
Integral 1057
0 0 0
0 1057 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x 14.03
Mean y 18.32
Std Dev x 2.798
Std Dev y 5.085
Integral 877
0 180 0
0 877 0
0 0 0
0
2
4
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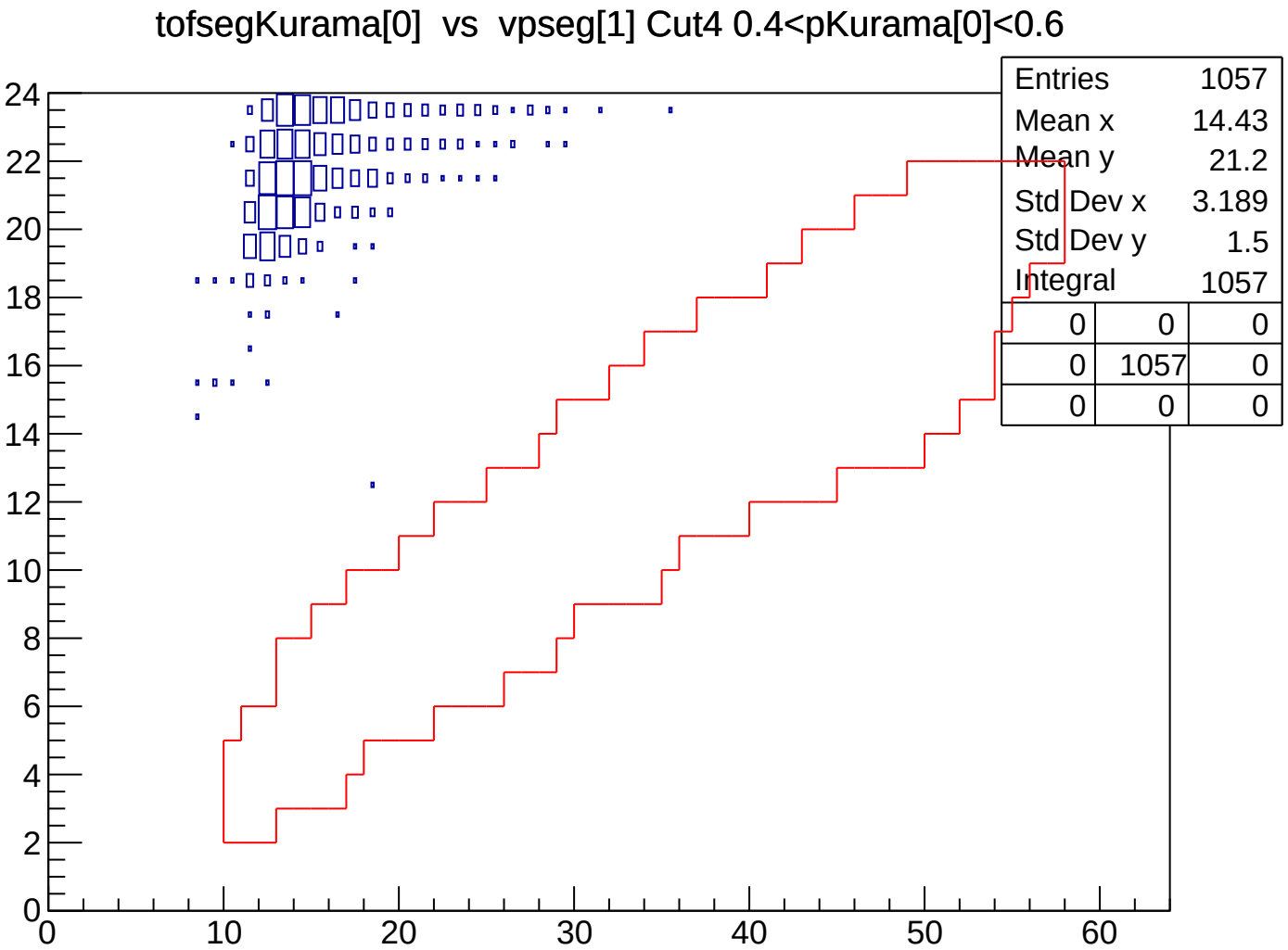
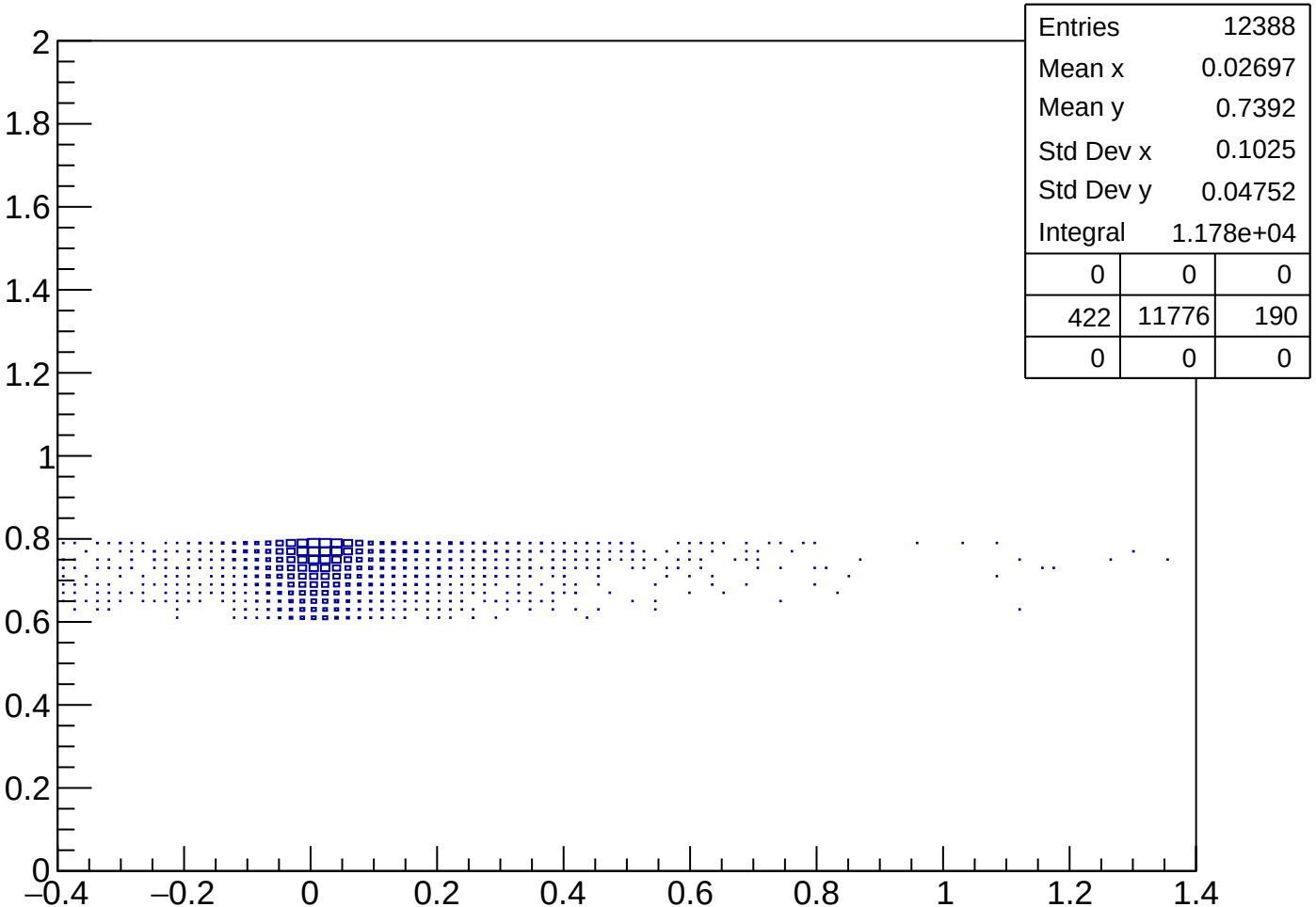
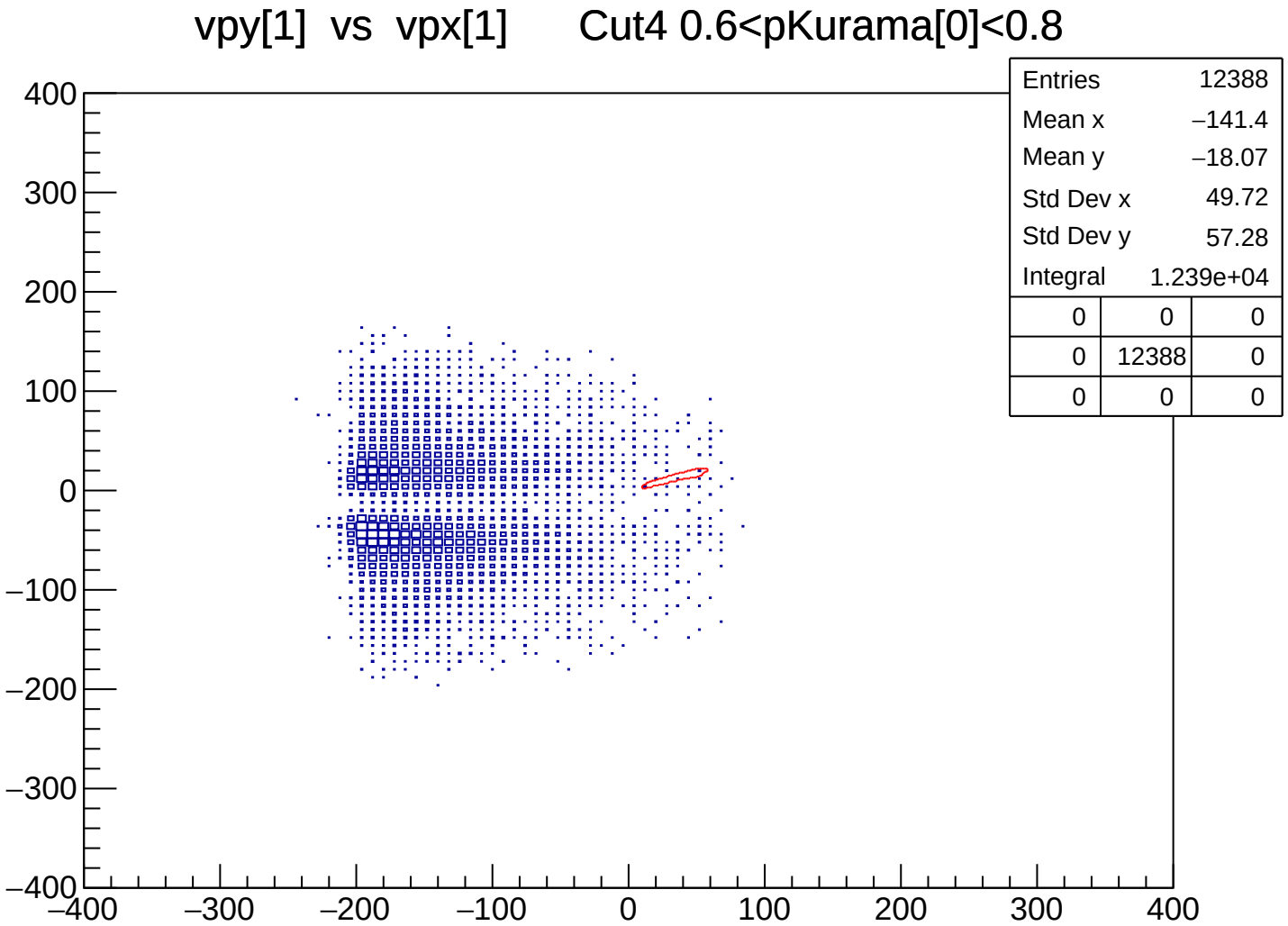
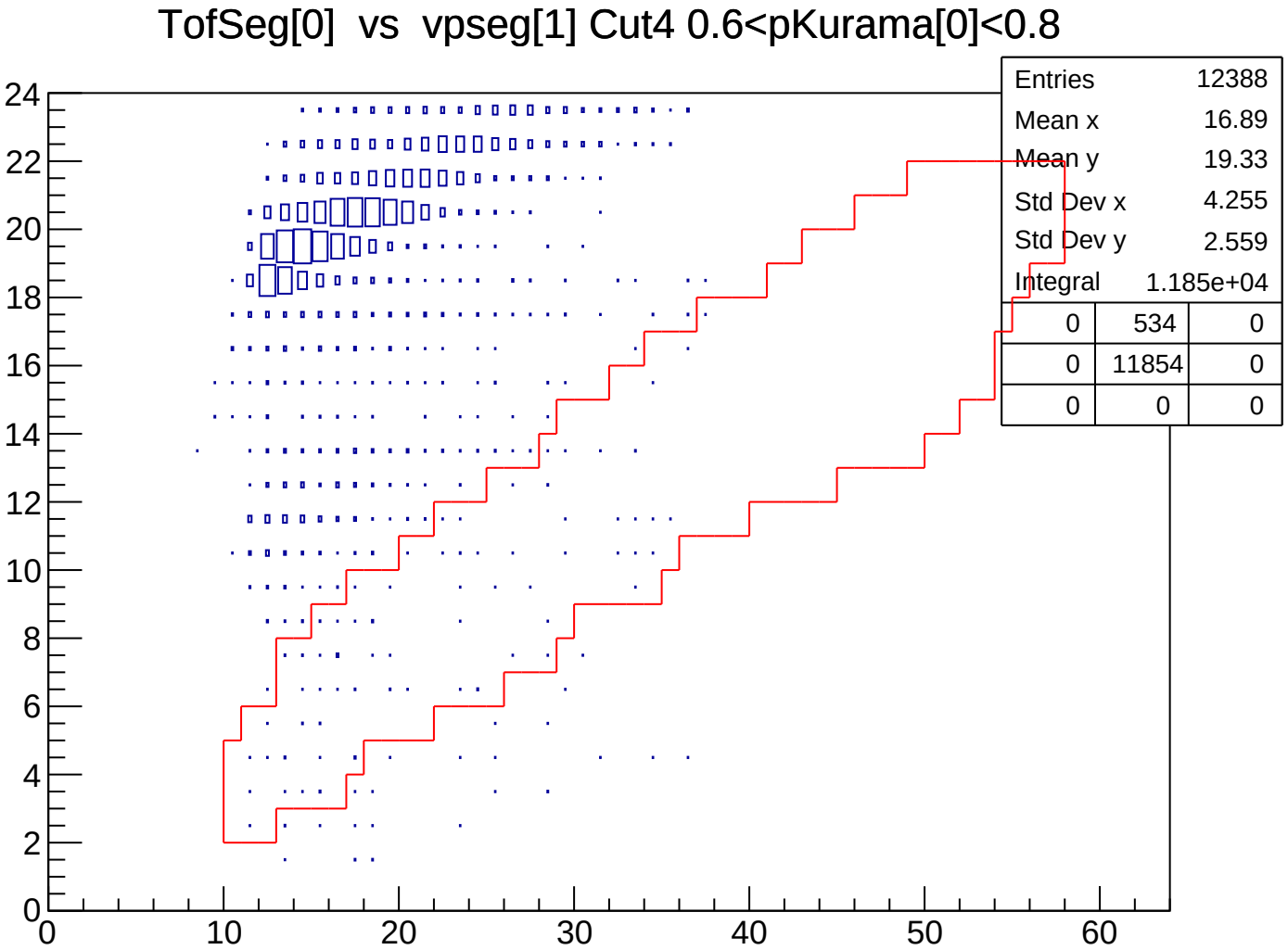
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 1057
Mean x 14.43
Mean y 21.2
Std Dev x 3.189
Std Dev y 1.5
Integral 1057
0 0 0
0 1057 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 0.6<pKurama[0]<0.8




vpy[1] vs vpx[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x −141.4
Mean y −18.07
Std Dev x 49.72
Std Dev y 57.28
Integral 1.239e+04
0 0 0
0 12388 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x 16.89
Mean y 19.33
Std Dev x 4.255
Std Dev y 2.559
Integral 1.185e+04
0 534 0
0 11854 0
0 0 0
0
2
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6
8
10
12
14
16
18
20
22
24
0
10
20
30
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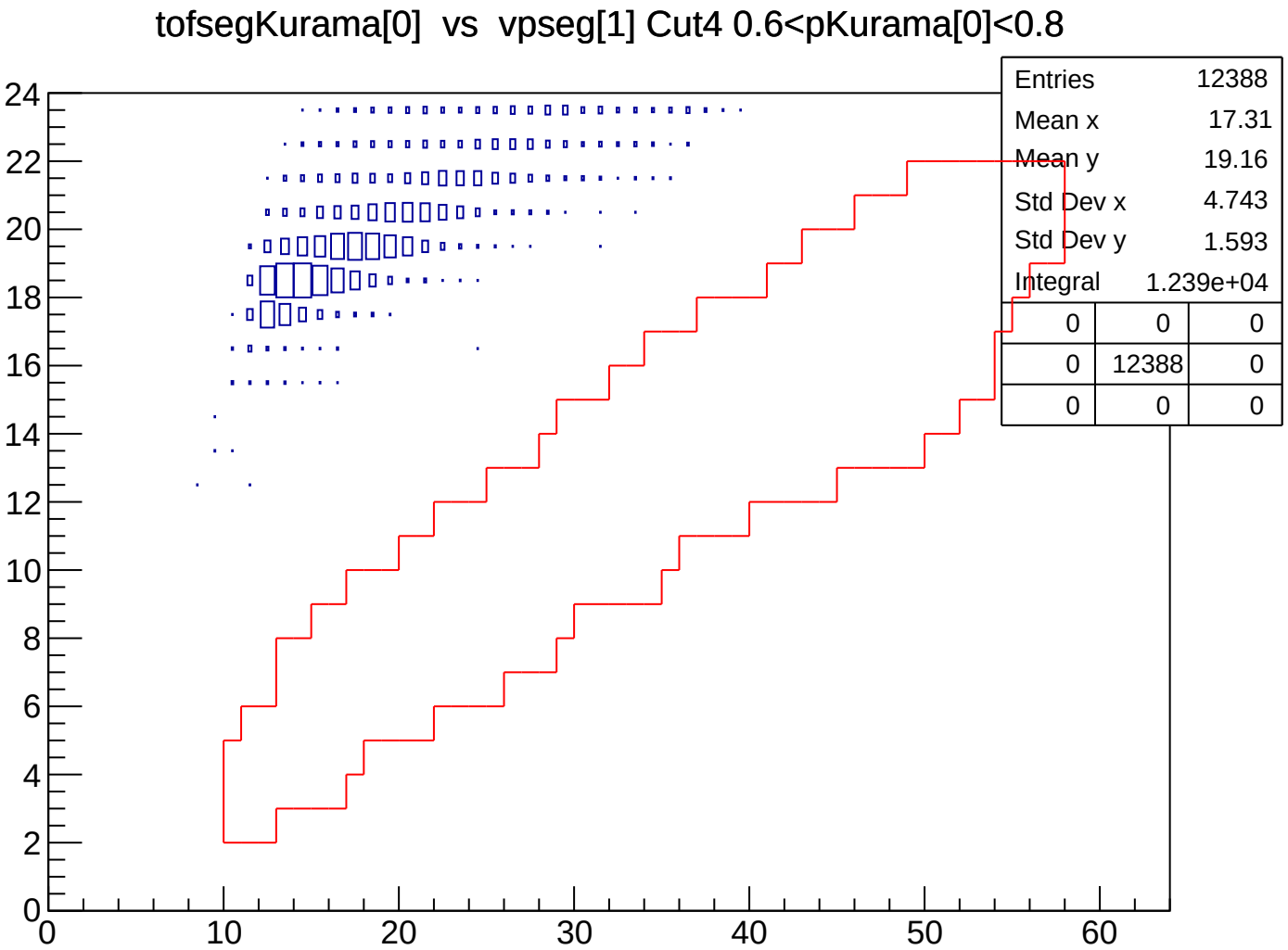
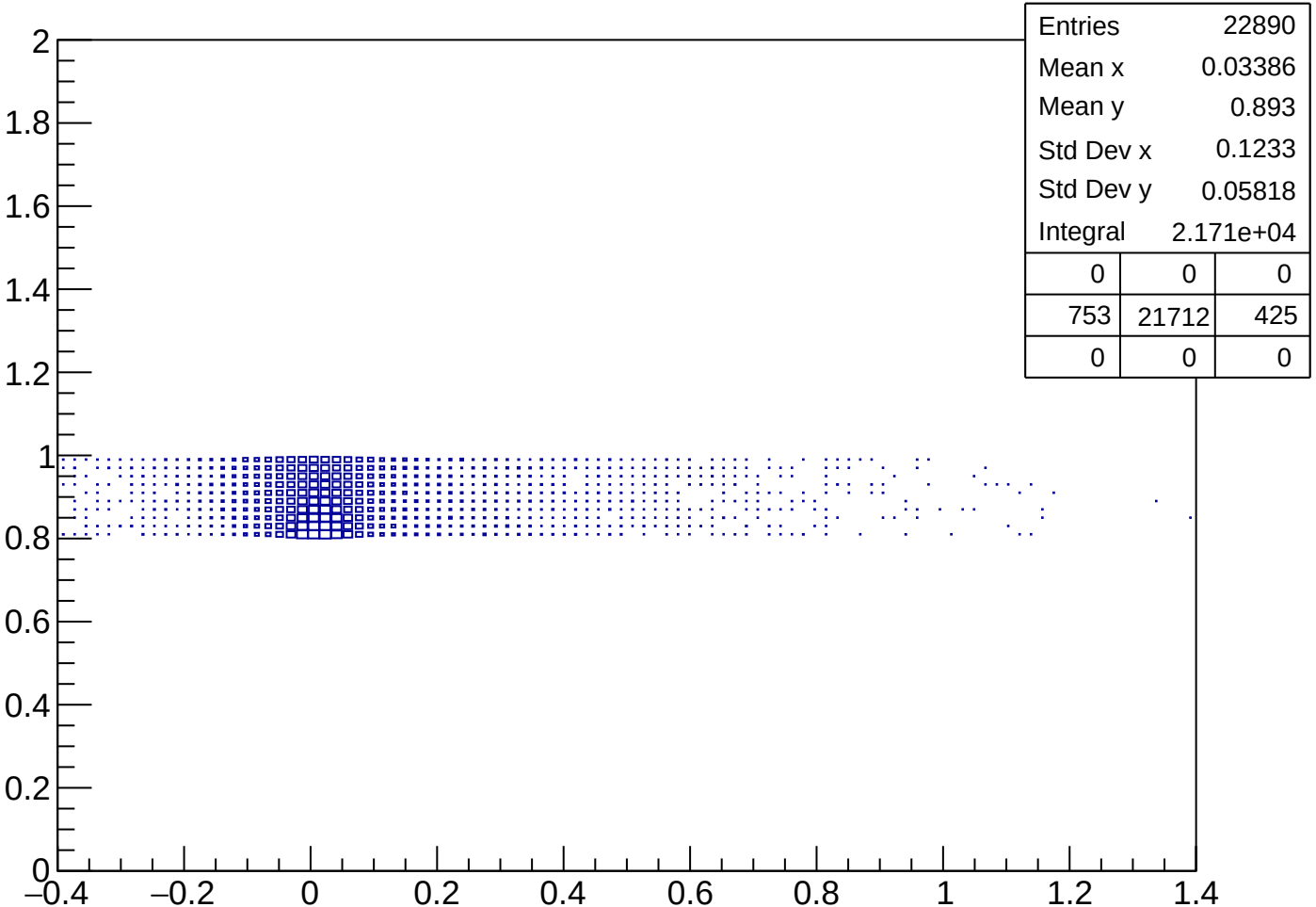
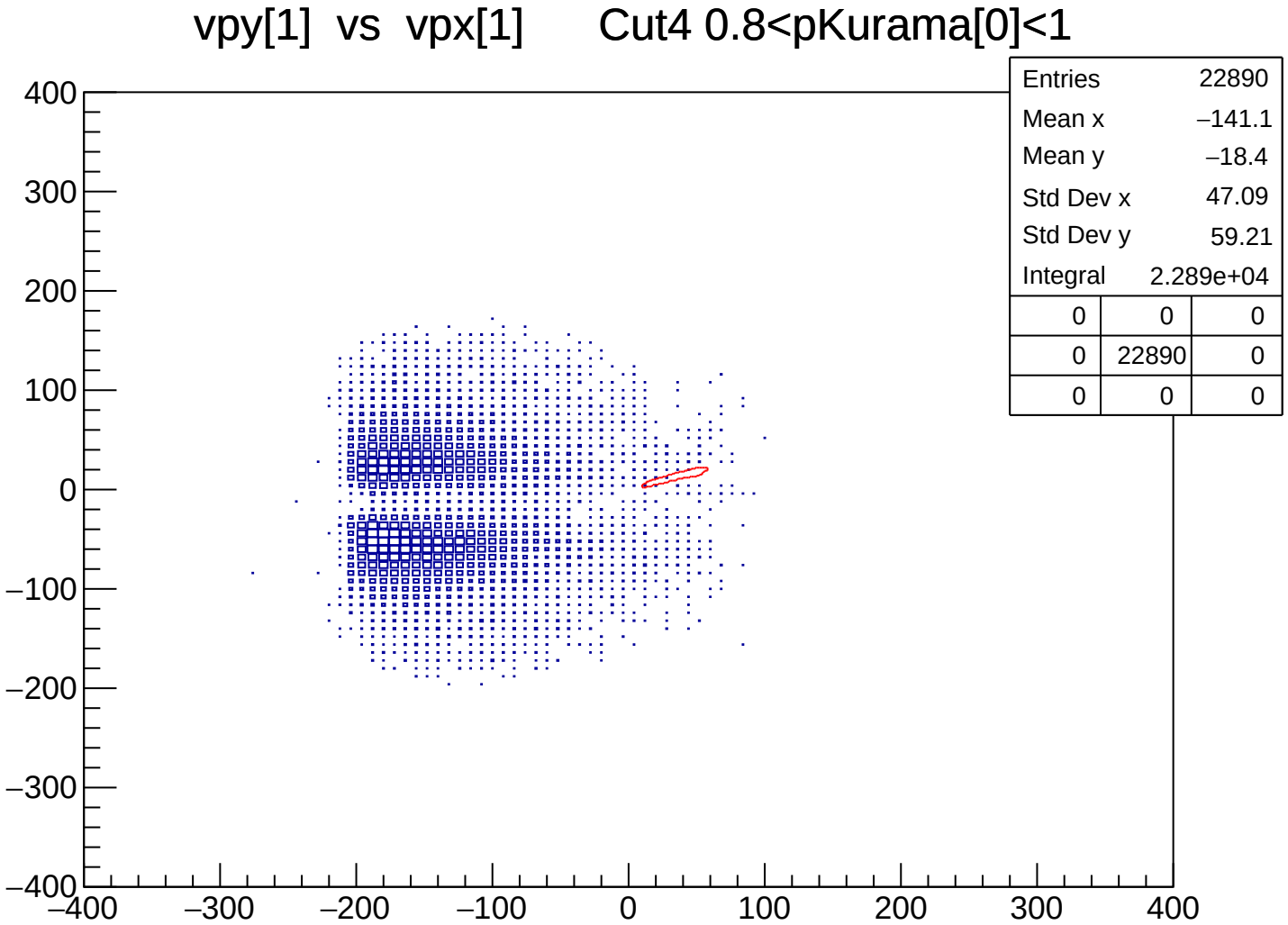
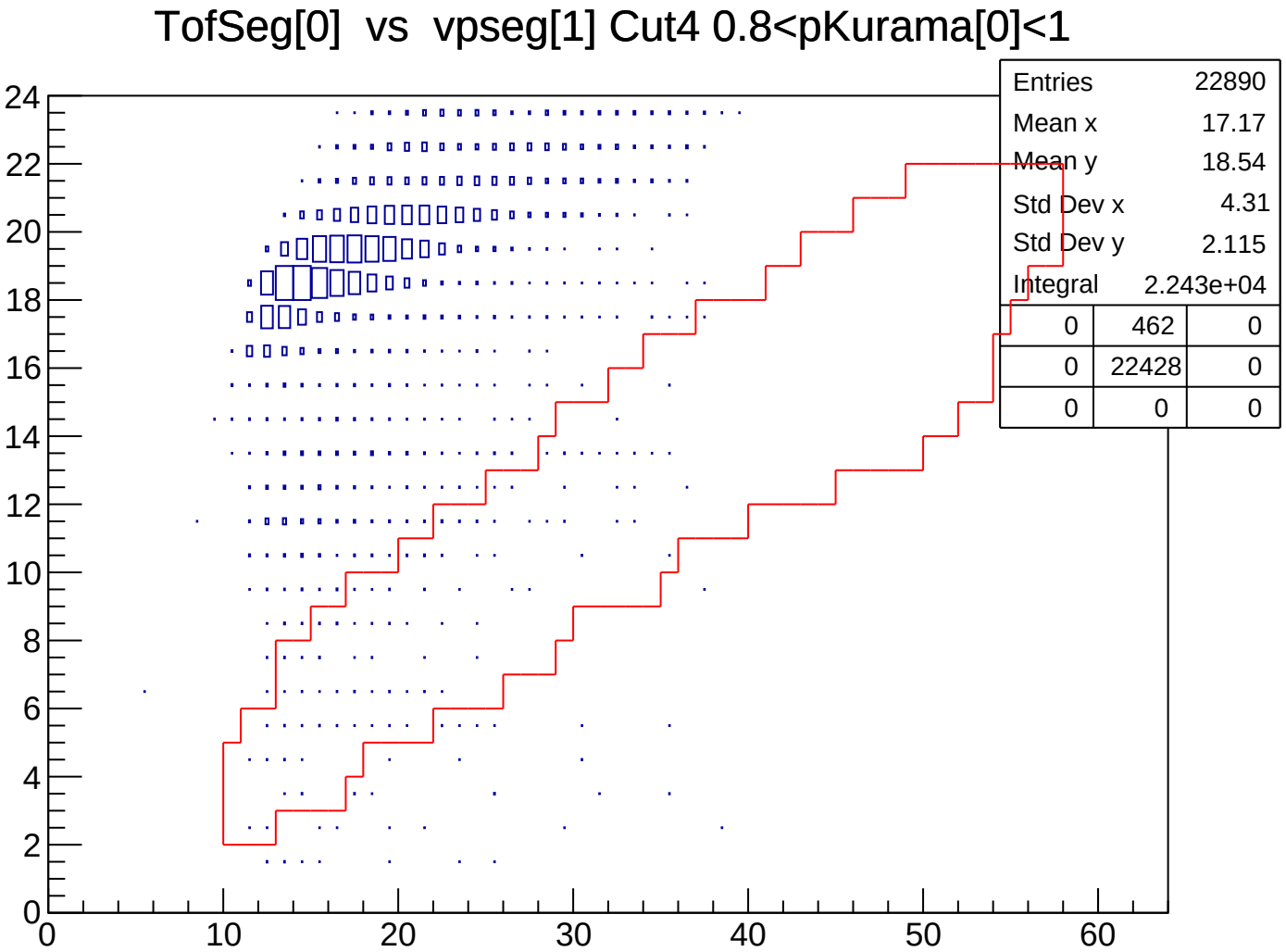
50
60


tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 12388
Mean x 17.31
Mean y 19.16
Std Dev x 4.743
Std Dev y 1.593
Integral 1.239e+04
0 0 0
0 12388 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 0.8<pKurama[0]<1




vpy[1] vs vpx[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x –141.1
Mean y –18.4
Std Dev x 47.09
Std Dev y 59.21
Integral 2.289e+04
0 0 0
0 22890 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x 17.17
Mean y 18.54
Std Dev x 4.31
Std Dev y 2.115
Integral 2.243e+04
0 462 0
0 22428 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
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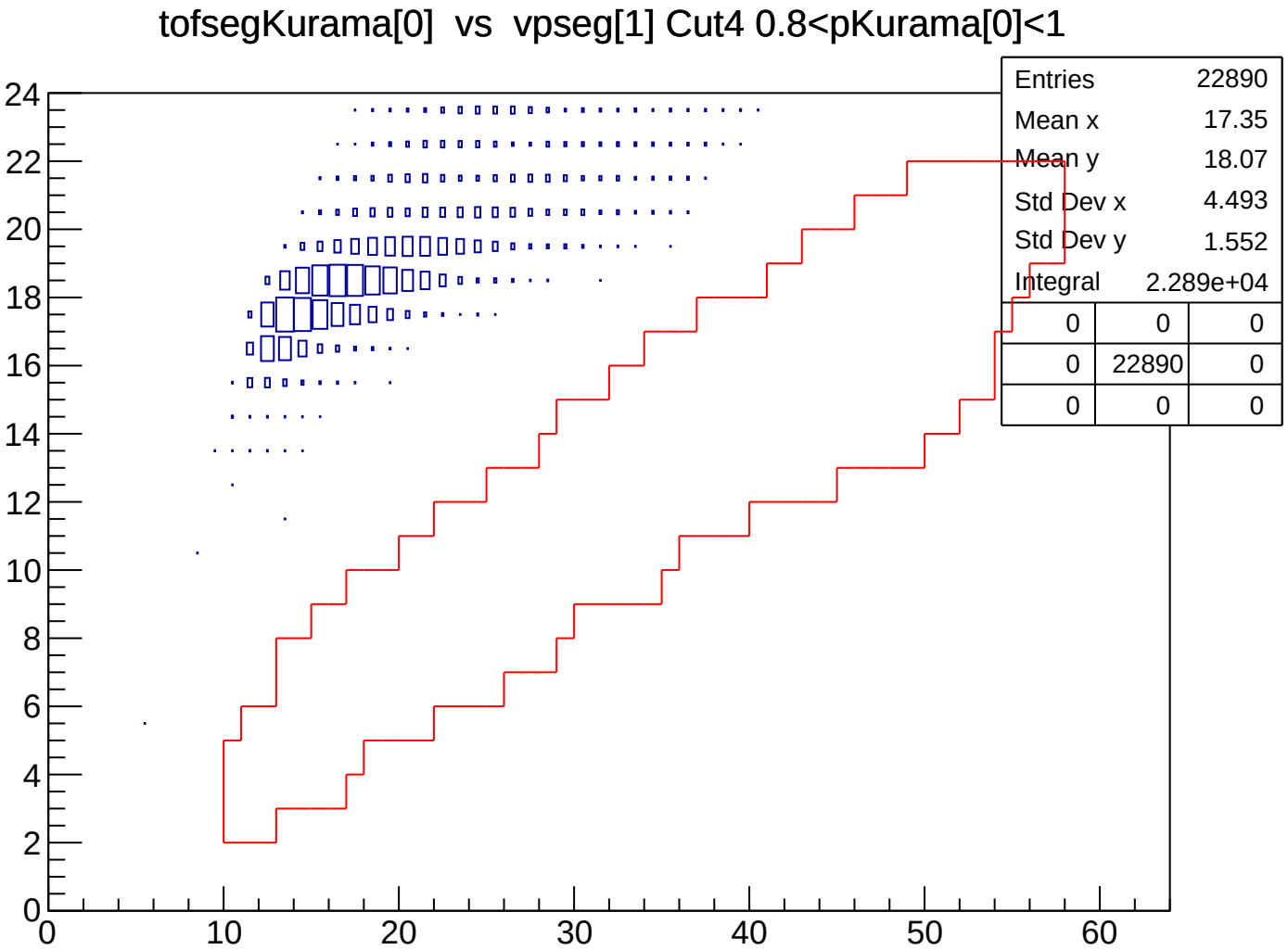
50
60


tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 22890
Mean x 17.35
Mean y 18.07
Std Dev x 4.493
Std Dev y 1.552
Integral 2.289e+04
0 0 0
0 22890 0
0 0 0
0
2
4
6
8
10
12
14
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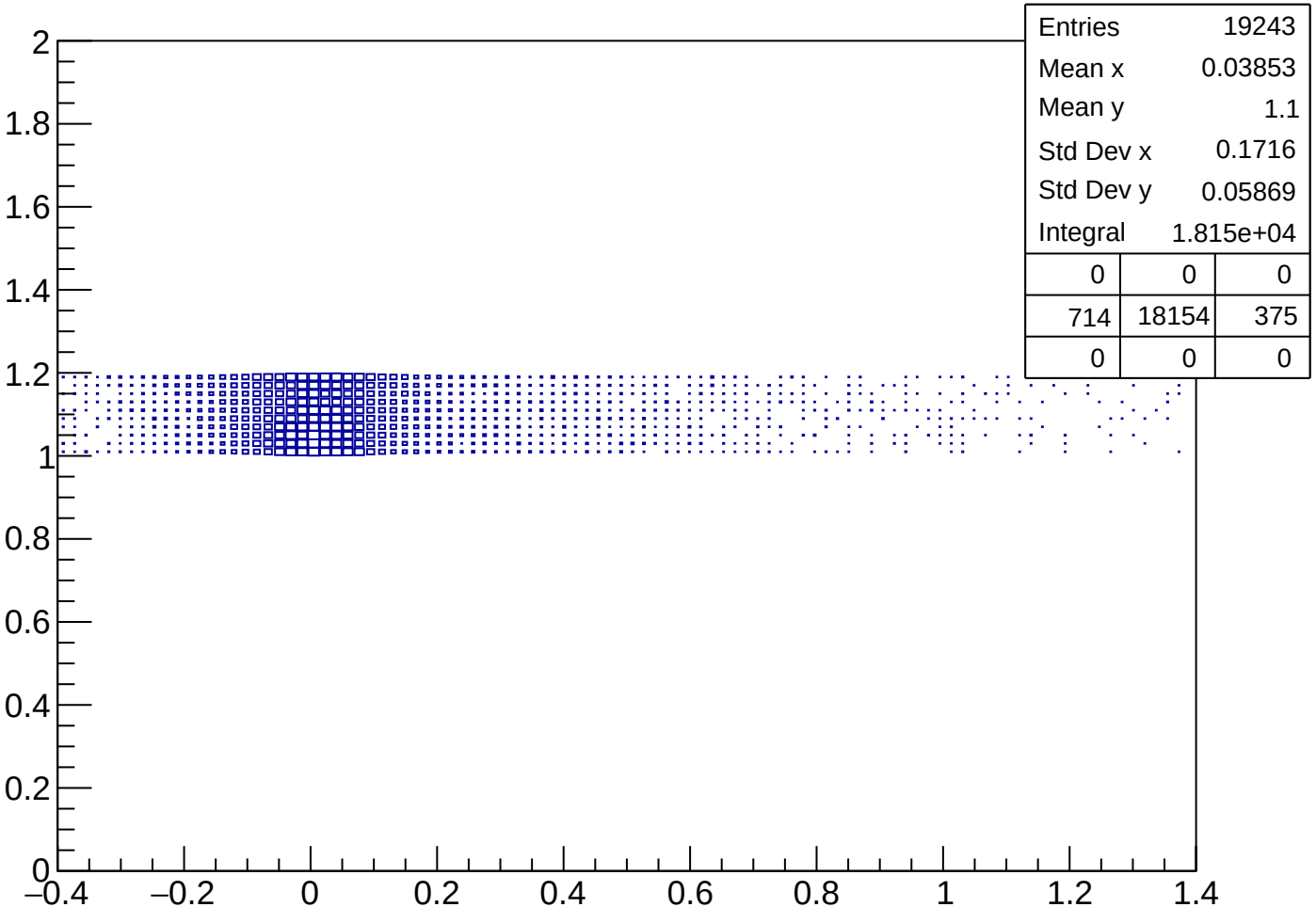
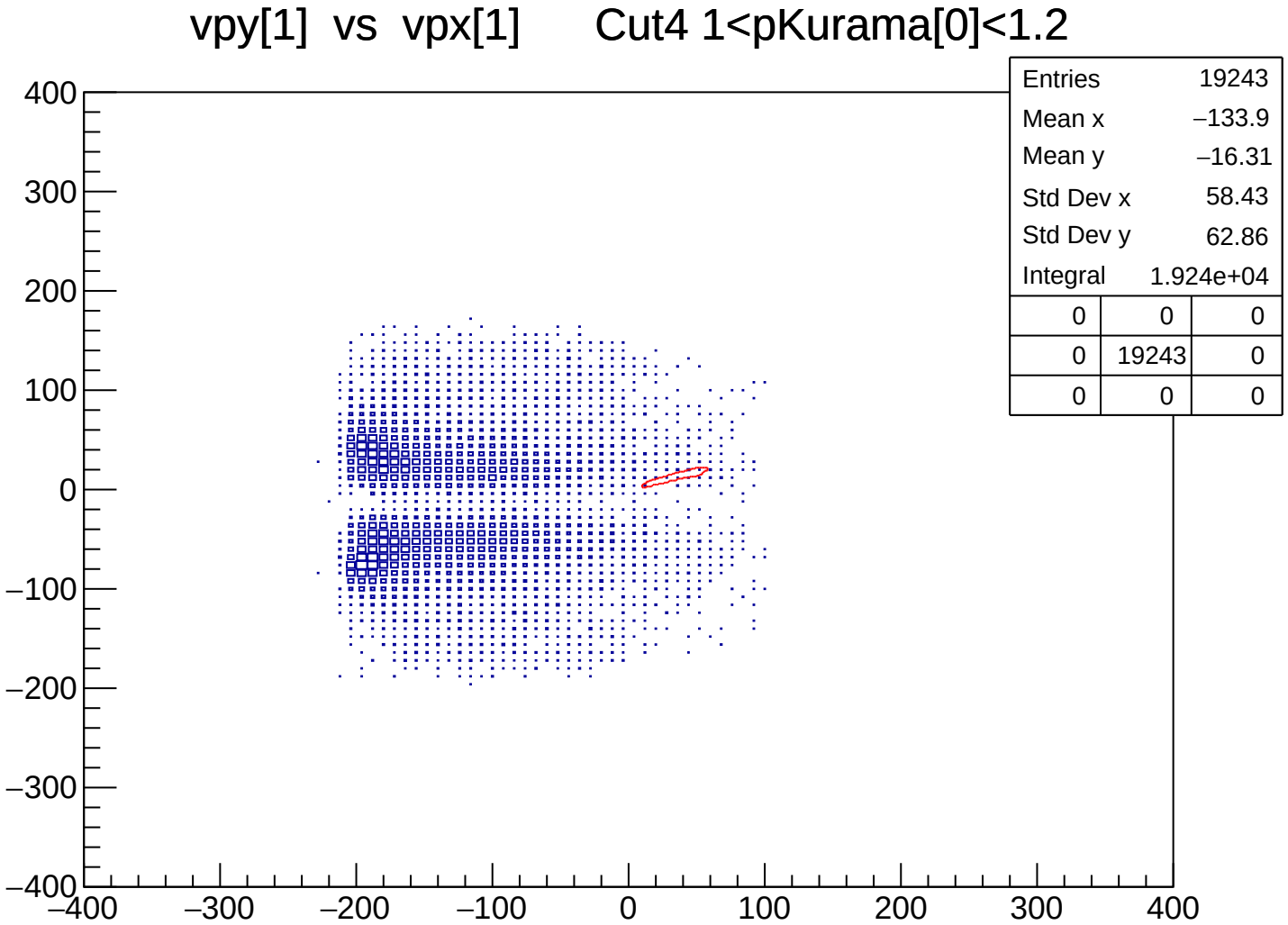
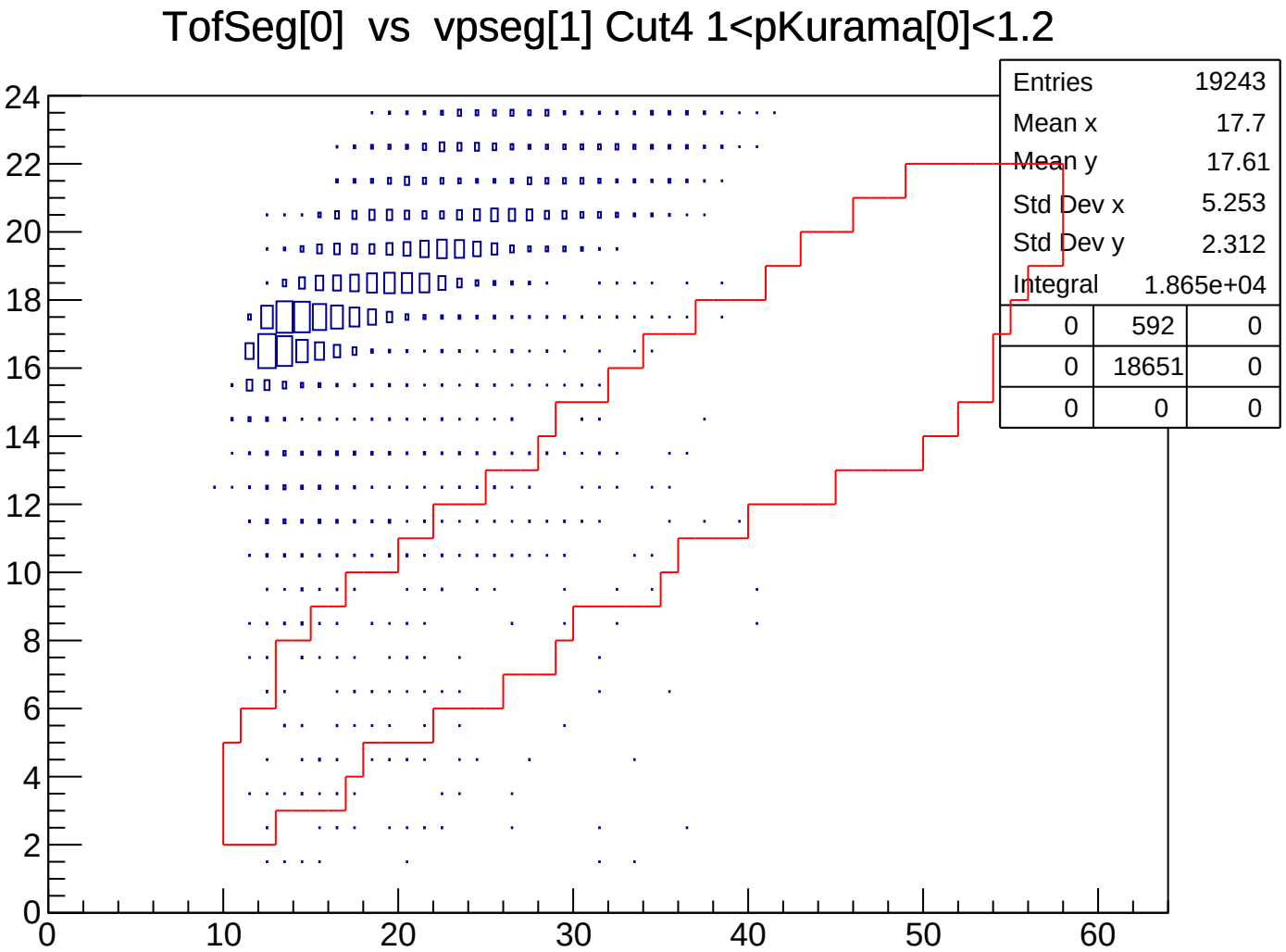
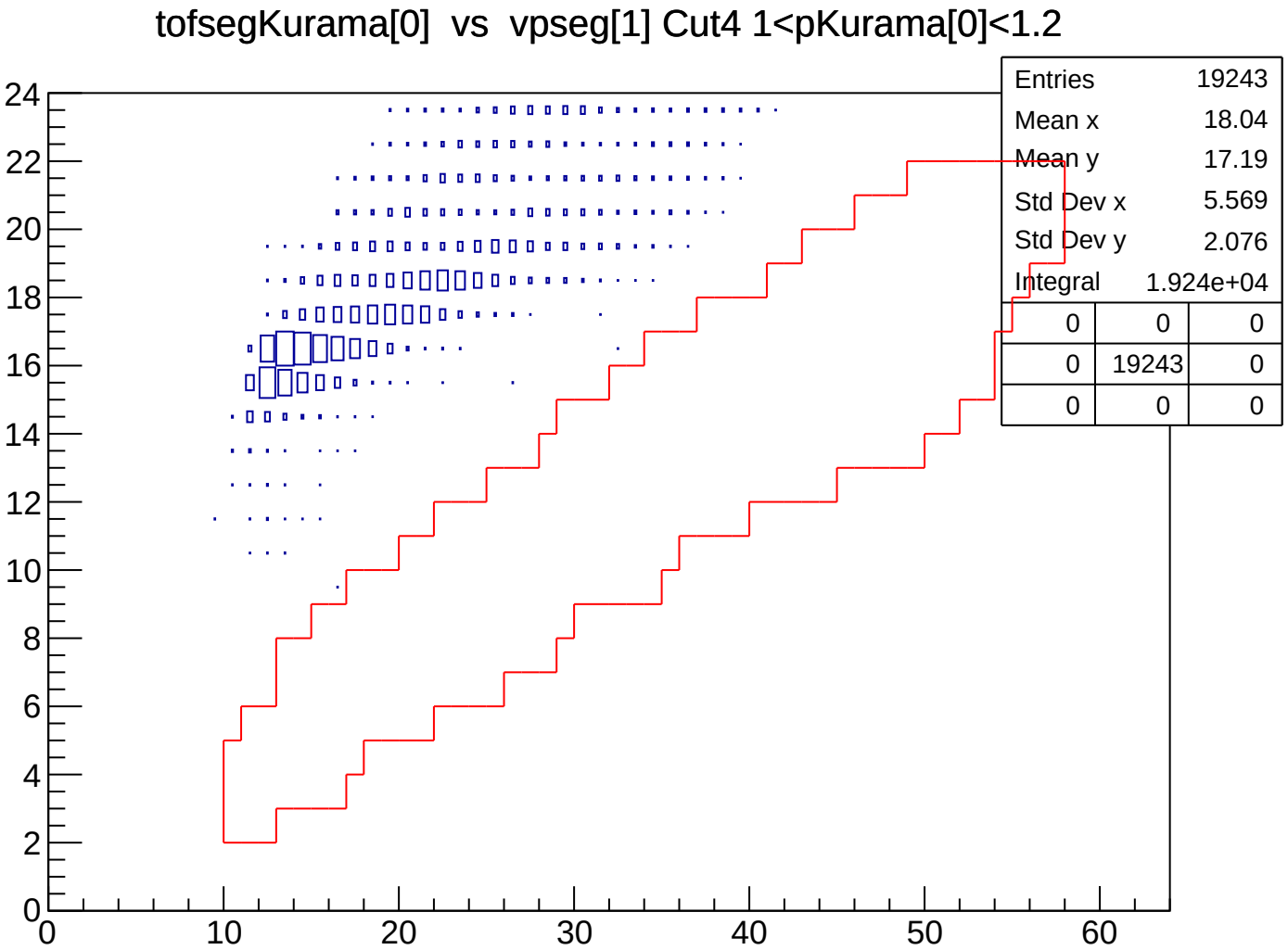
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut4 1<pKurama[0]<1.2

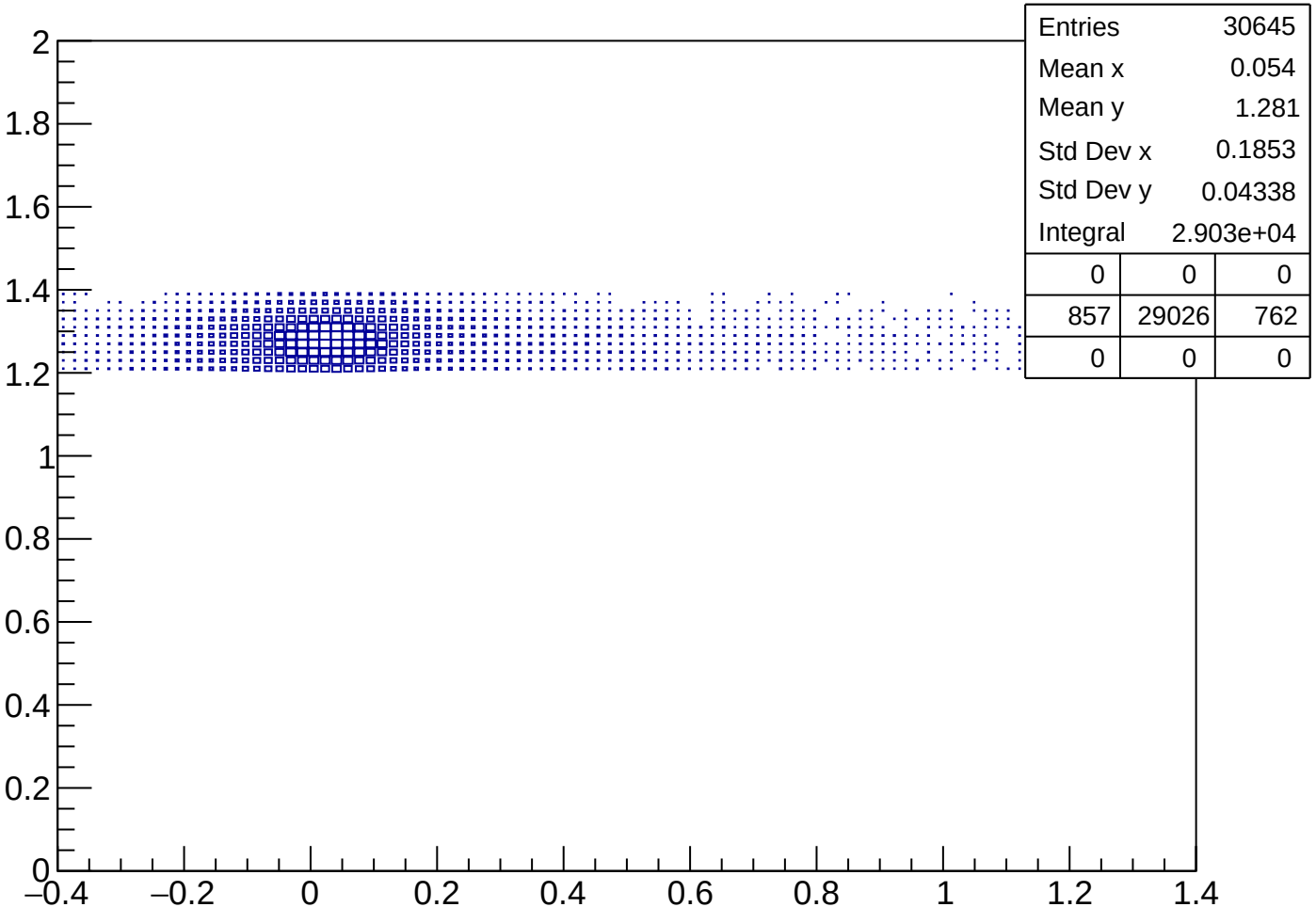


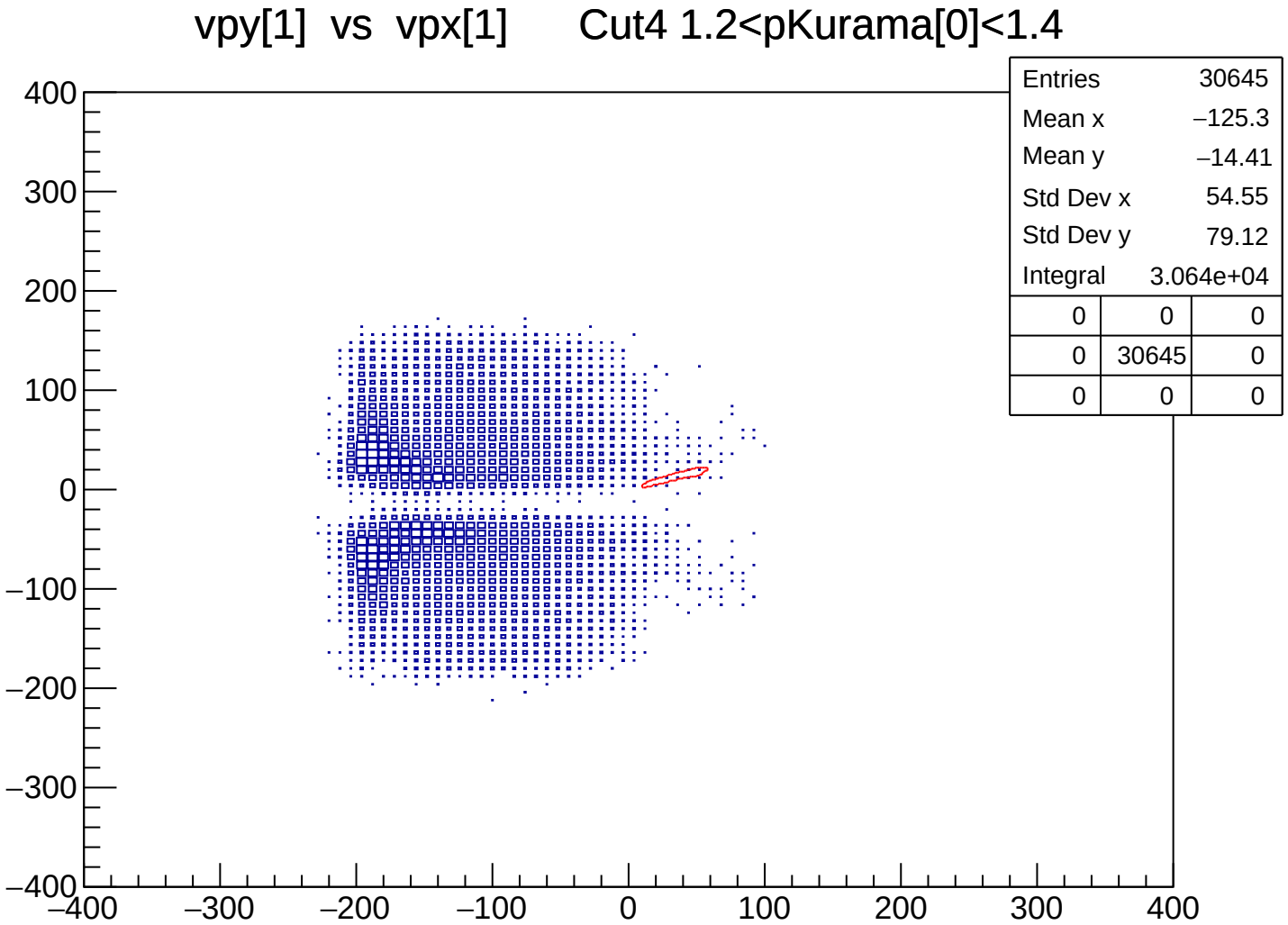

vpy[1] vs vpx[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x –133.9
Mean y –16.31
Std Dev x 58.43
Std Dev y 62.86
Integral 1.924e+04
0 0 0
0 19243 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

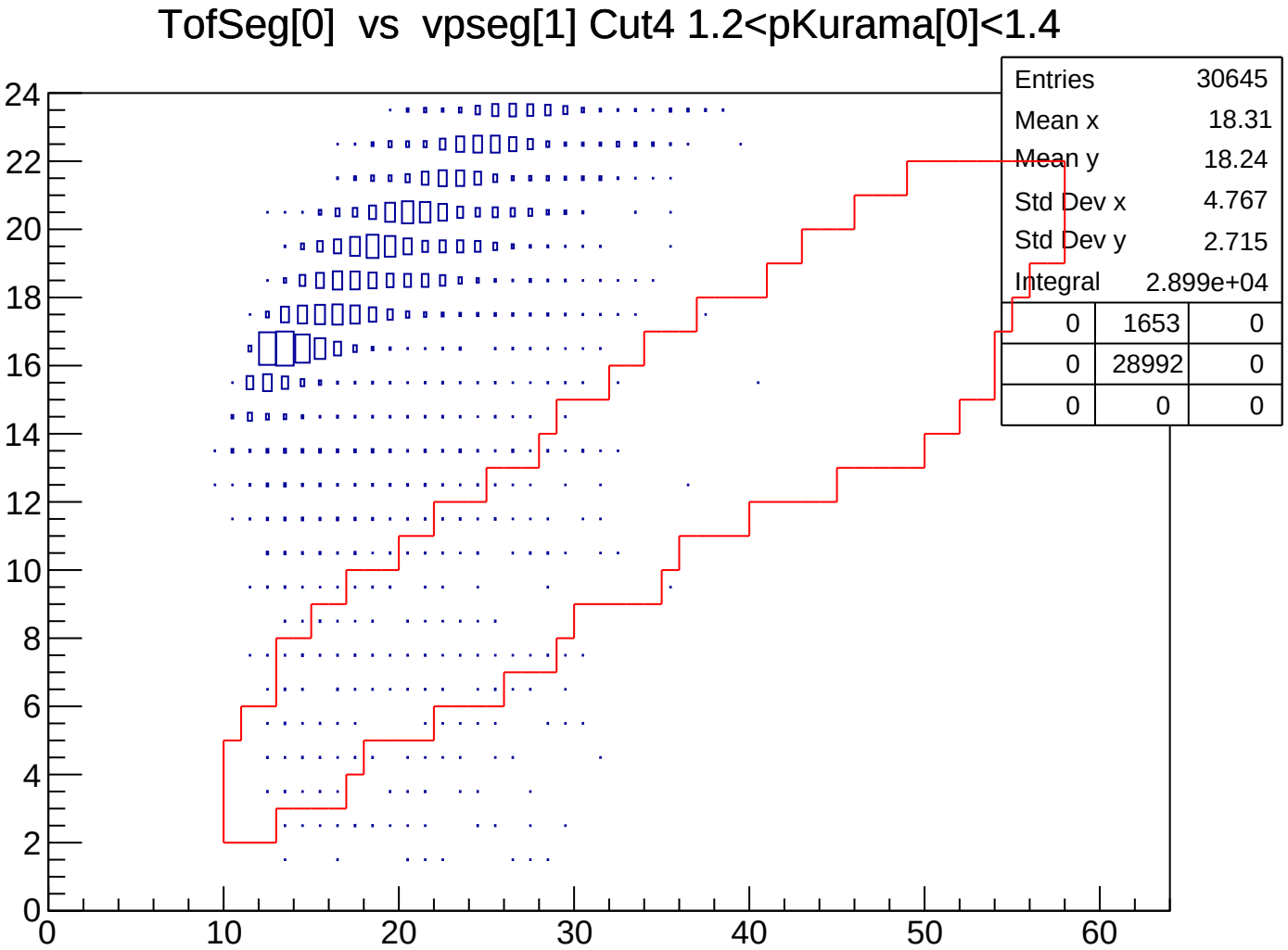

TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x 17.7
Mean y 17.61
Std Dev x 5.253
Std Dev y 2.312
Integral 1.865e+04
0 592 0
0 18651 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

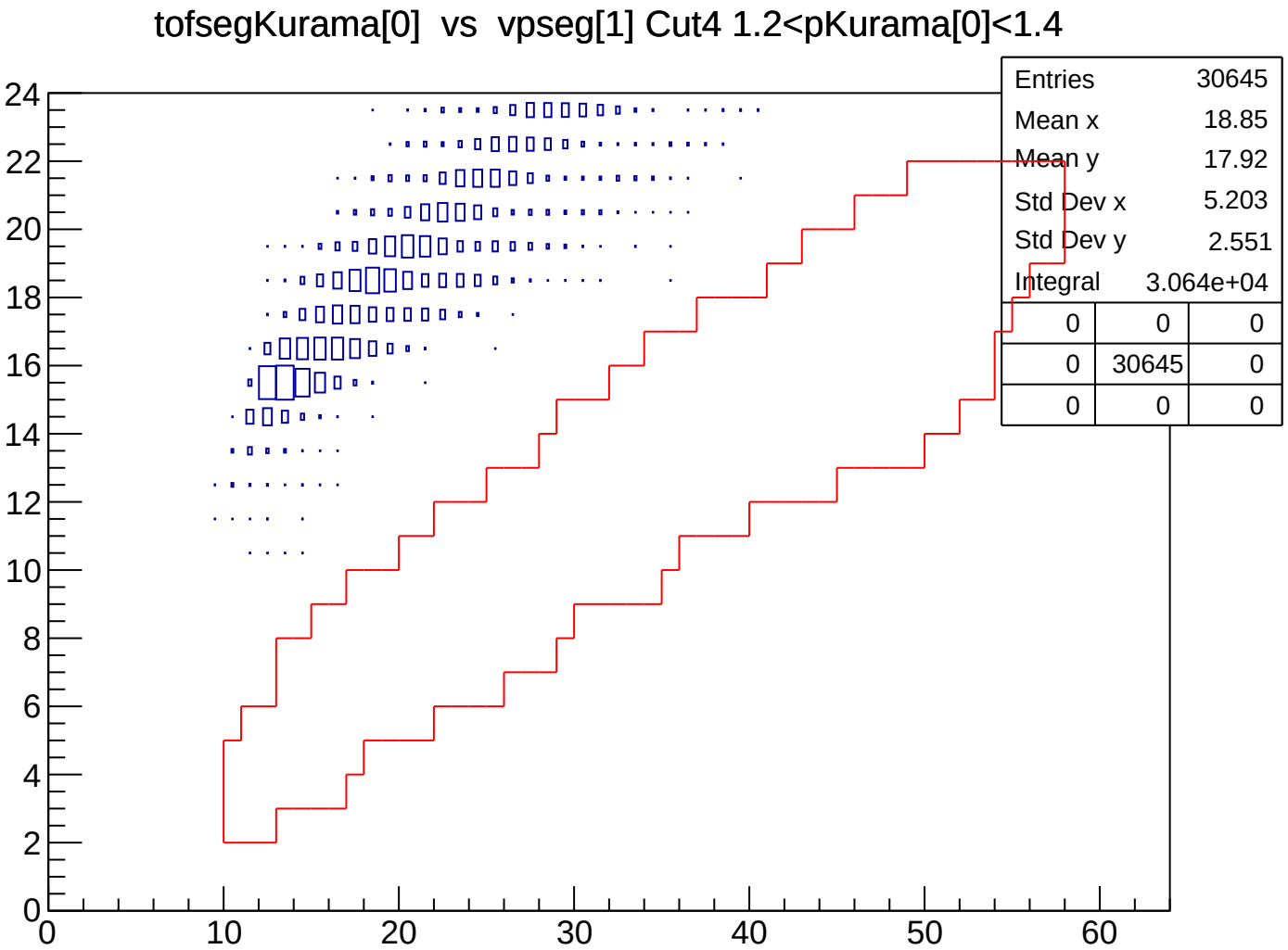

tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 19243
Mean x 18.04
Mean y 17.19
Std Dev x 5.569
Std Dev y 2.076
Integral 1.924e+04
0 0 0
0 19243 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

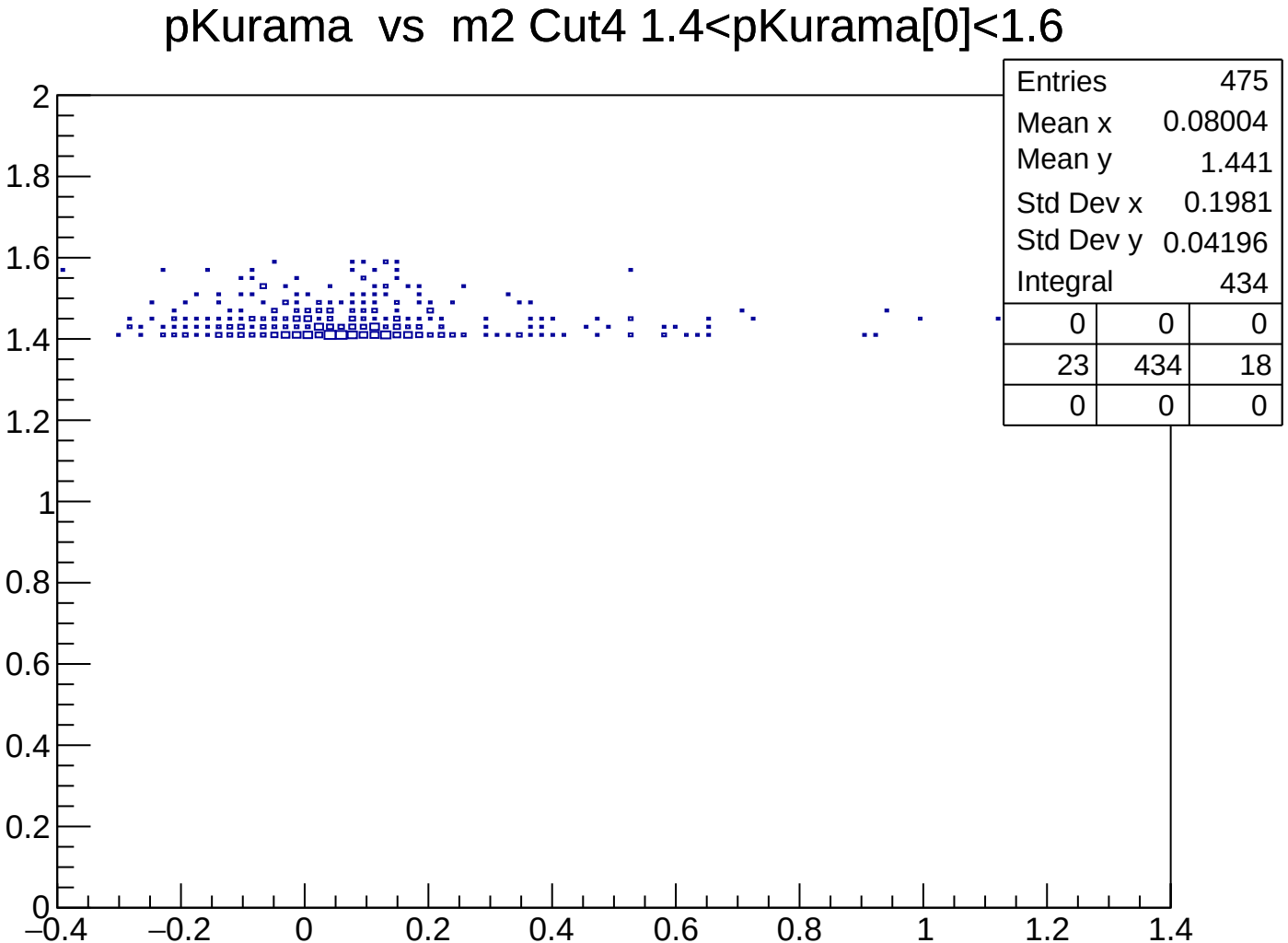
pKurama vs m2 Cut4 1.2<pKurama[0]<1.4

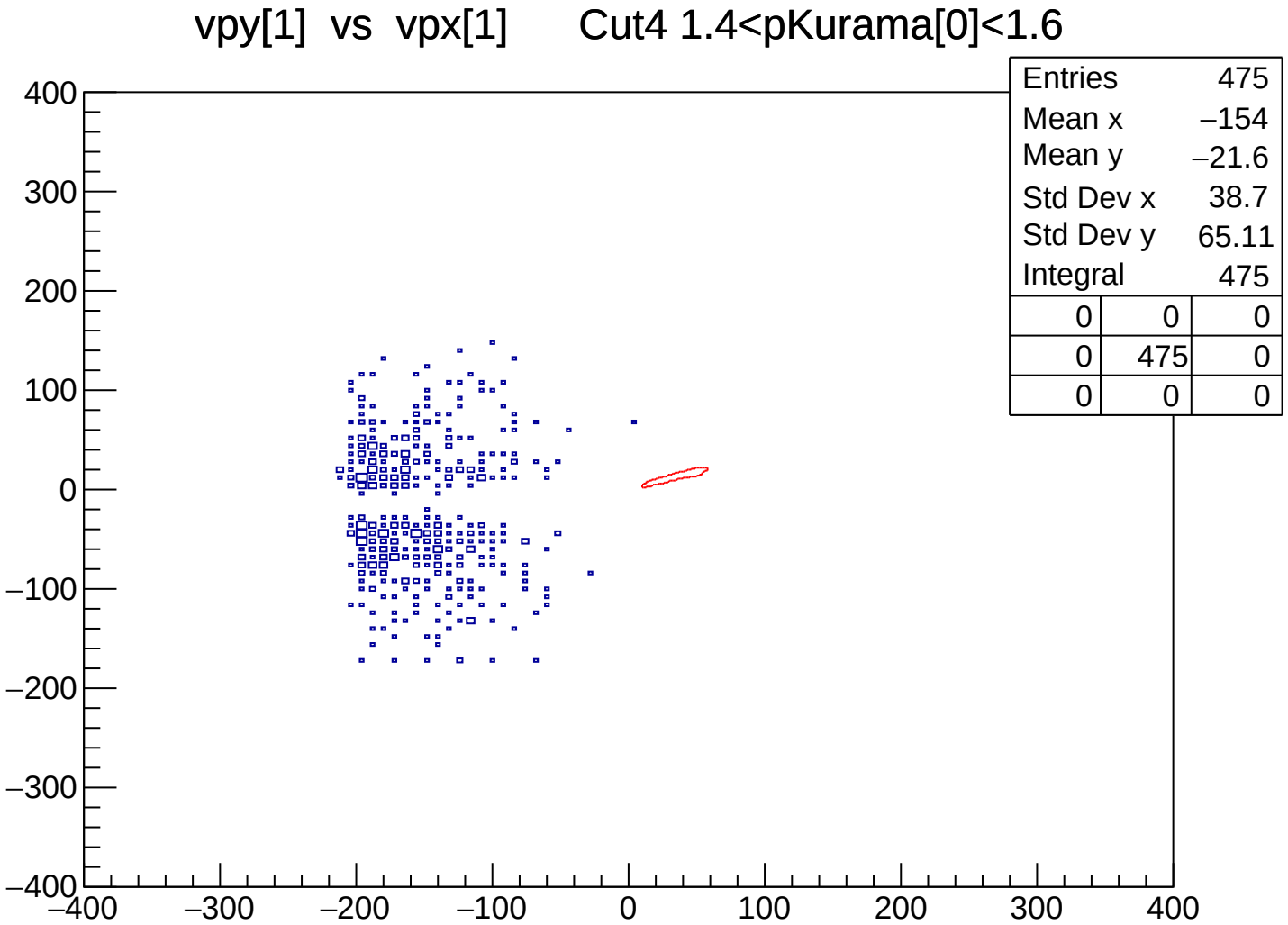


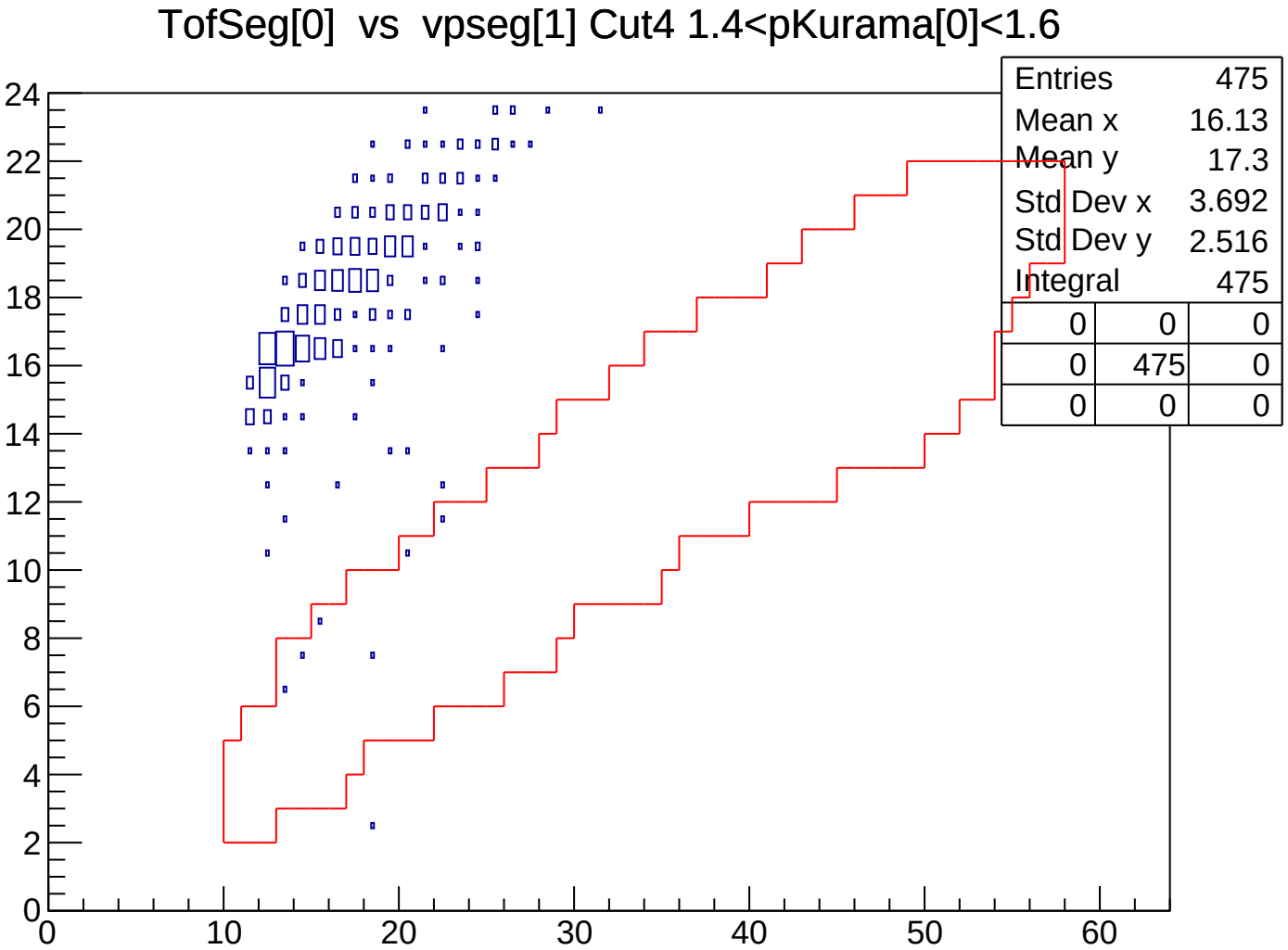

vpy[1] vs vpx[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x –125.3
Mean y –14.41
Std Dev x 54.55
Std Dev y 79.12
Integral 3.064e+04
0 0 0
0 30645 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

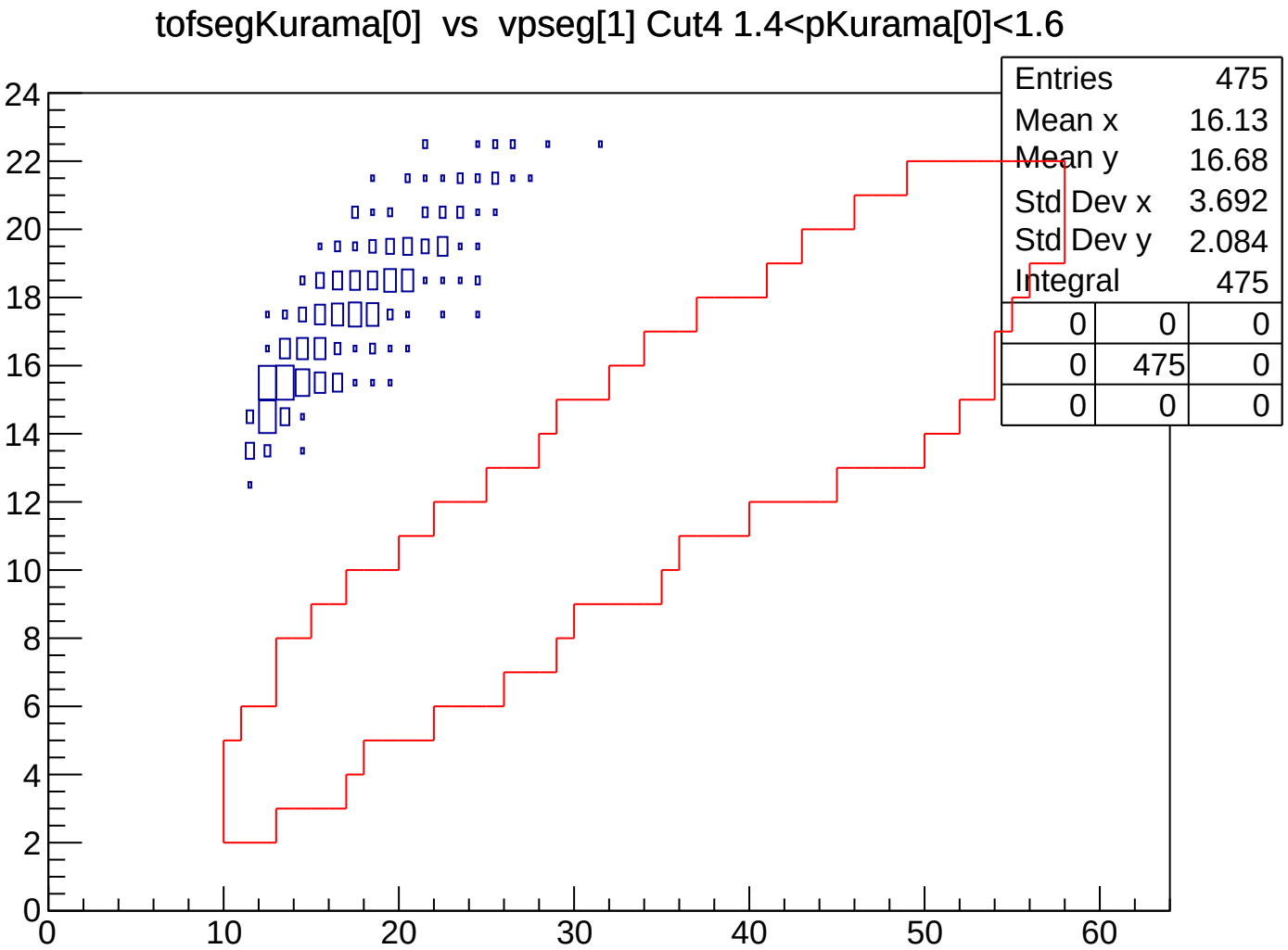

TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x 18.31
Mean y 18.24
Std Dev x 4.767
Std Dev y 2.715
Integral 2.899e+04
0 1653 0
0 28992 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 30645
Mean x 18.85
Mean y 17.92
Std Dev x 5.203
Std Dev y 2.551
Integral 3.064e+04
0 0 0
0 30645 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

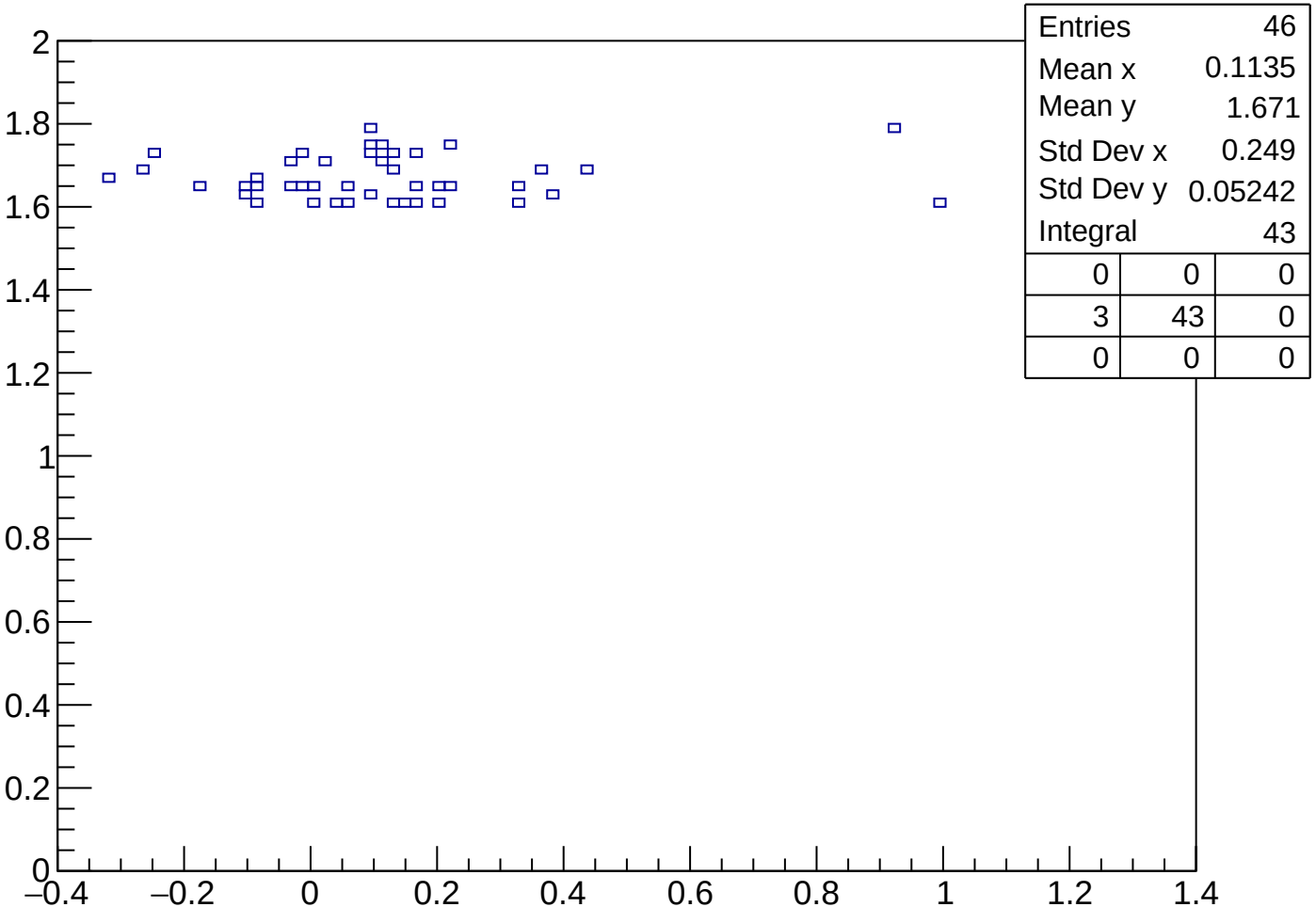

pKurama vs m2 Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 0.08004
Mean y 1.441
Std Dev x 0.1981
Std Dev y 0.04196
Integral 434
0 0 0
23 434 18
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

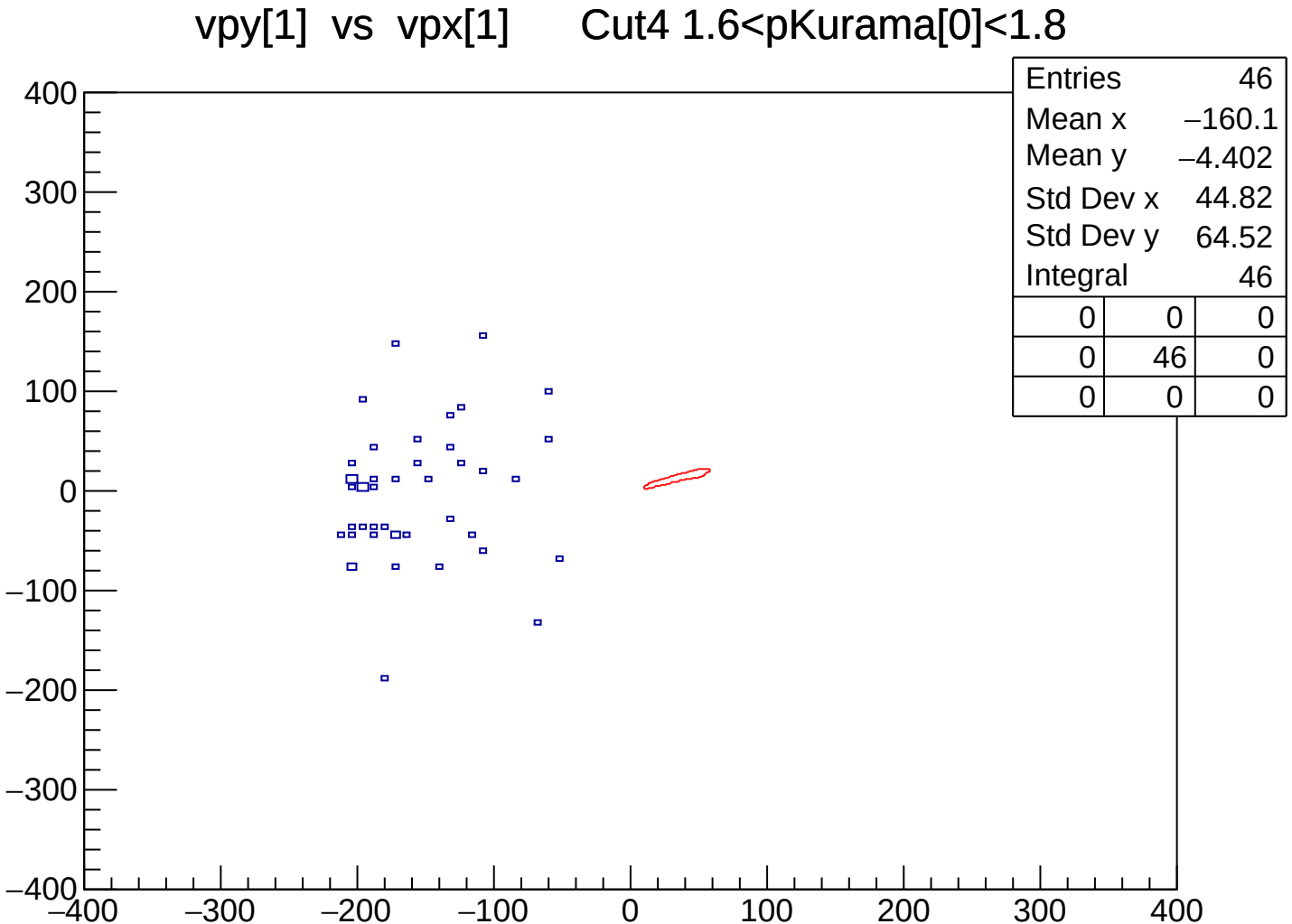

vpy[1] vs vpx[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x –154
Mean y –21.6
Std Dev x 38.7
Std Dev y 65.11
Integral 475
0 0 0
0 475 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

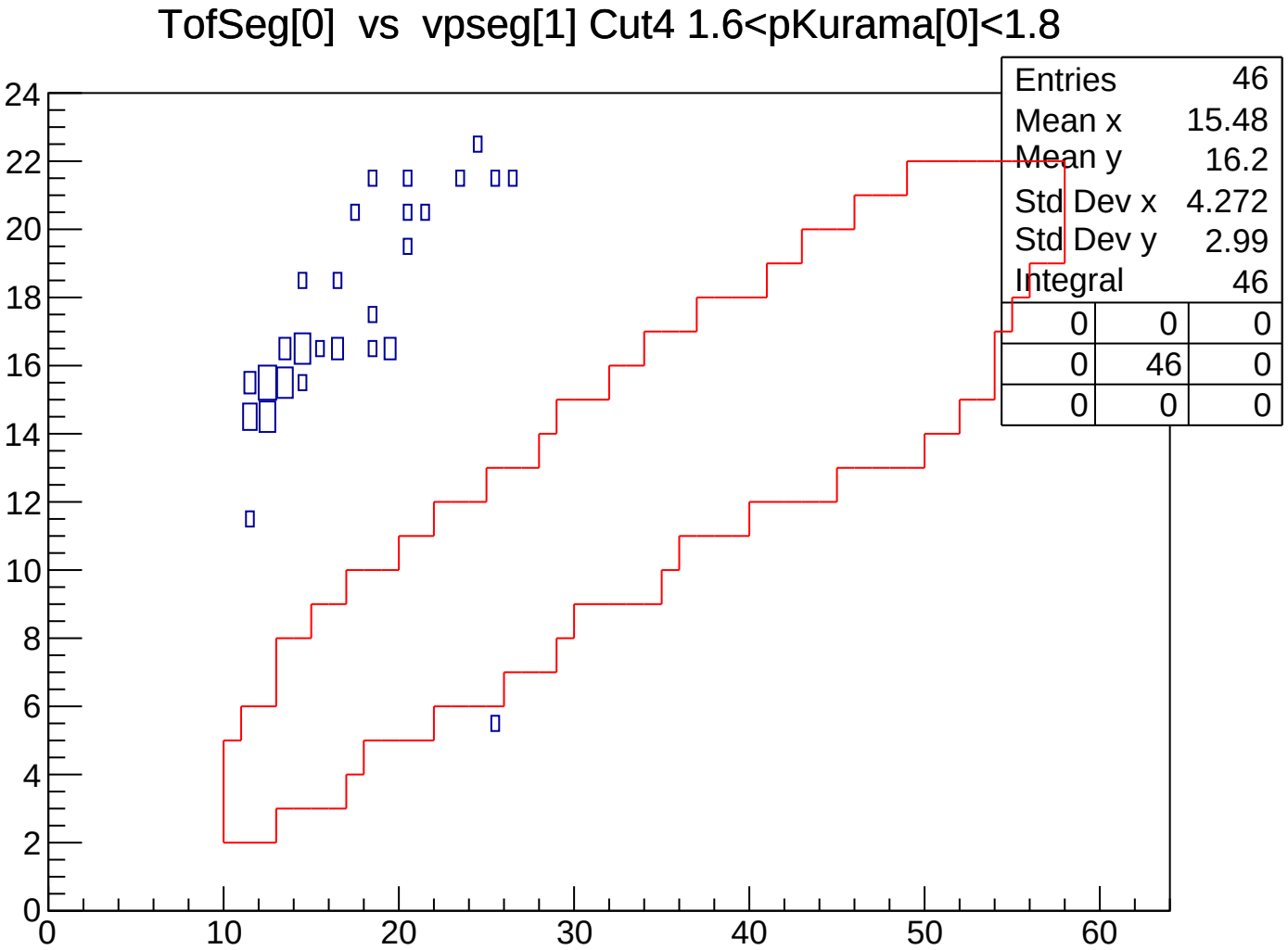

TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 16.13
Mean y 17.3
Std Dev x 3.692
Std Dev y 2.516
Integral 475
0 0 0
0 475 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

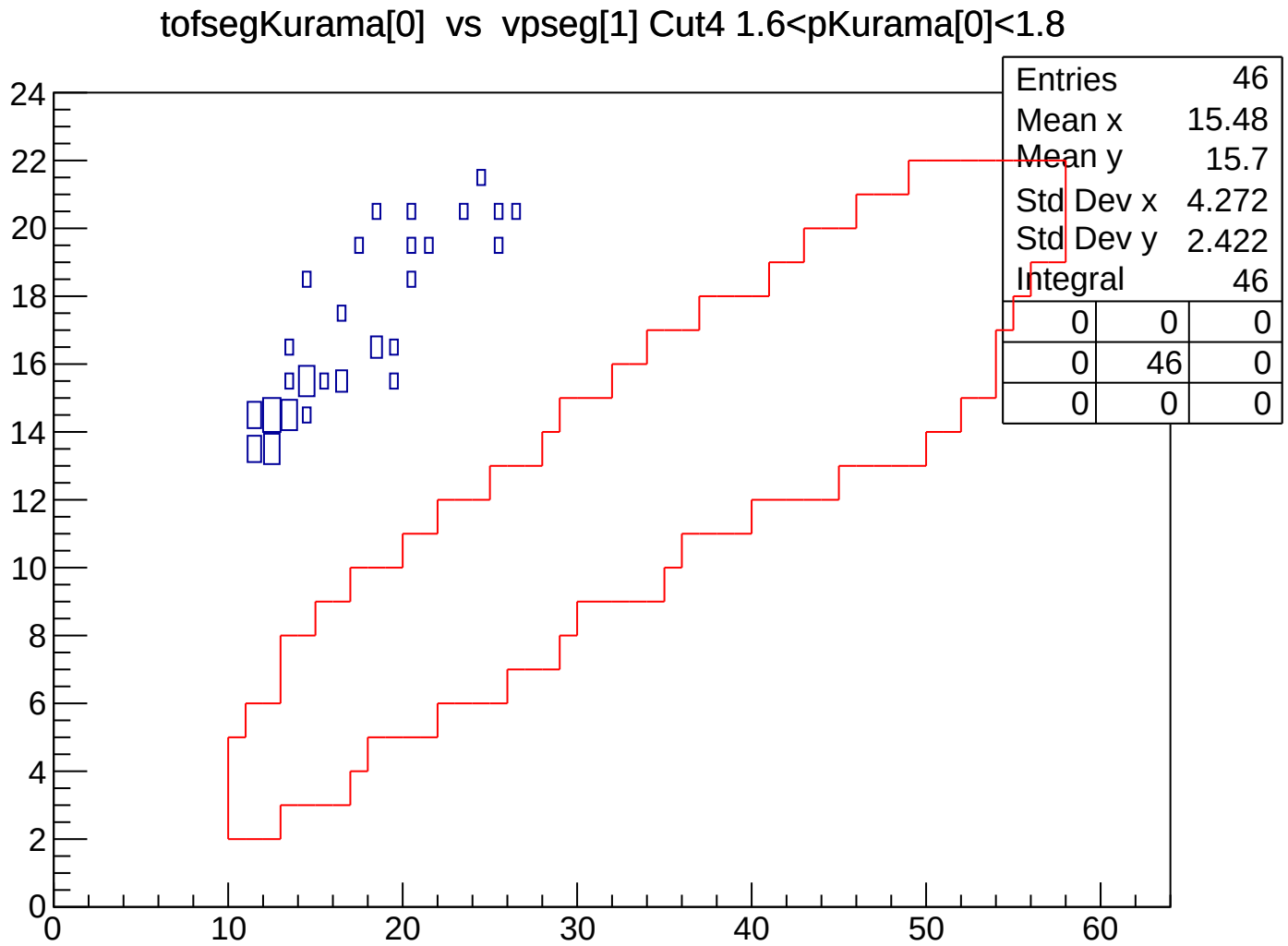

tofsegKurama[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 475
Mean x 16.13
Mean y 16.68
Std Dev x 3.692
Std Dev y 2.084
Integral 475
0 0 0
0 475 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

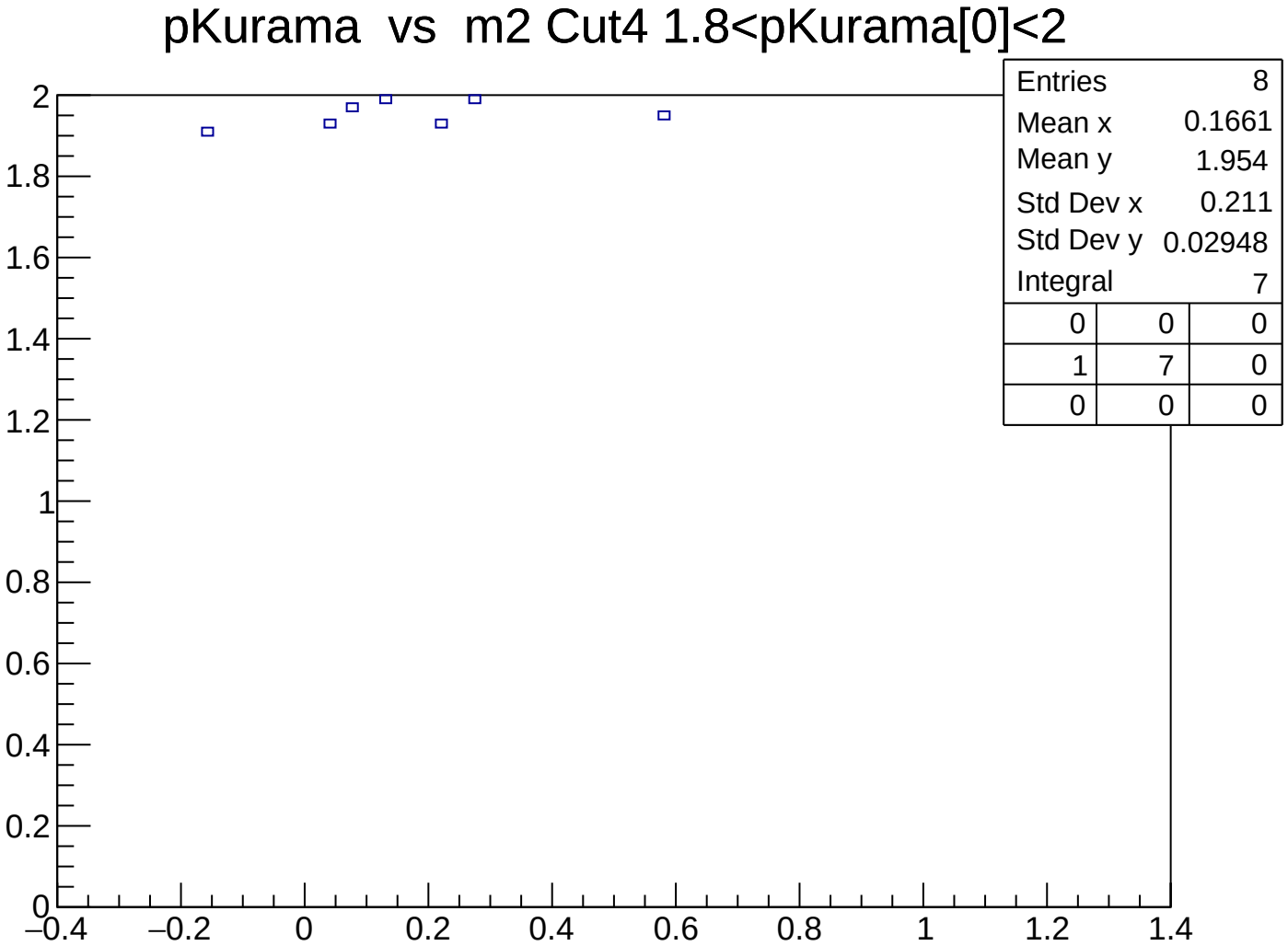
pKurama vs m2 Cut4 1.6<pKurama[0]<1.8

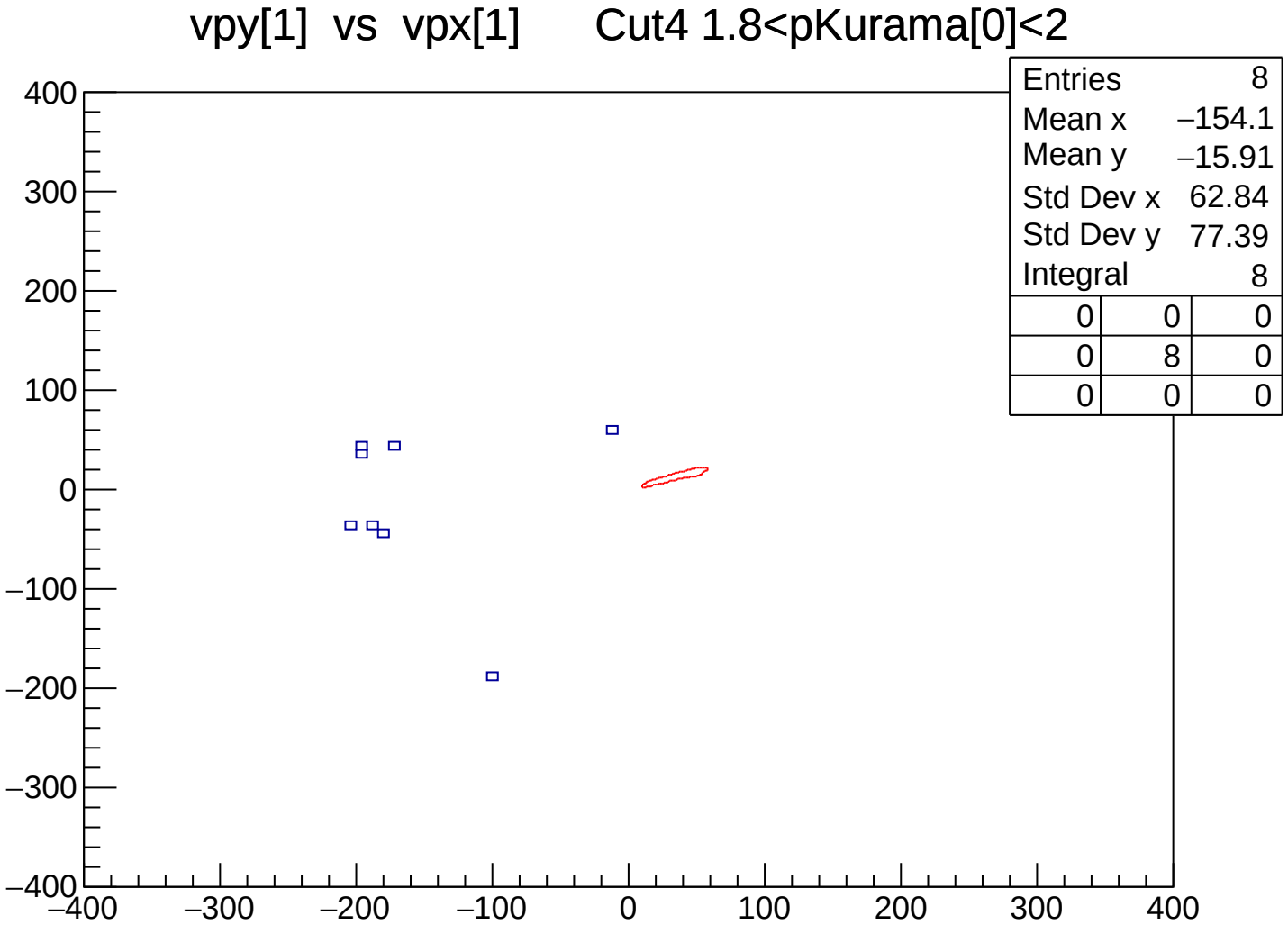


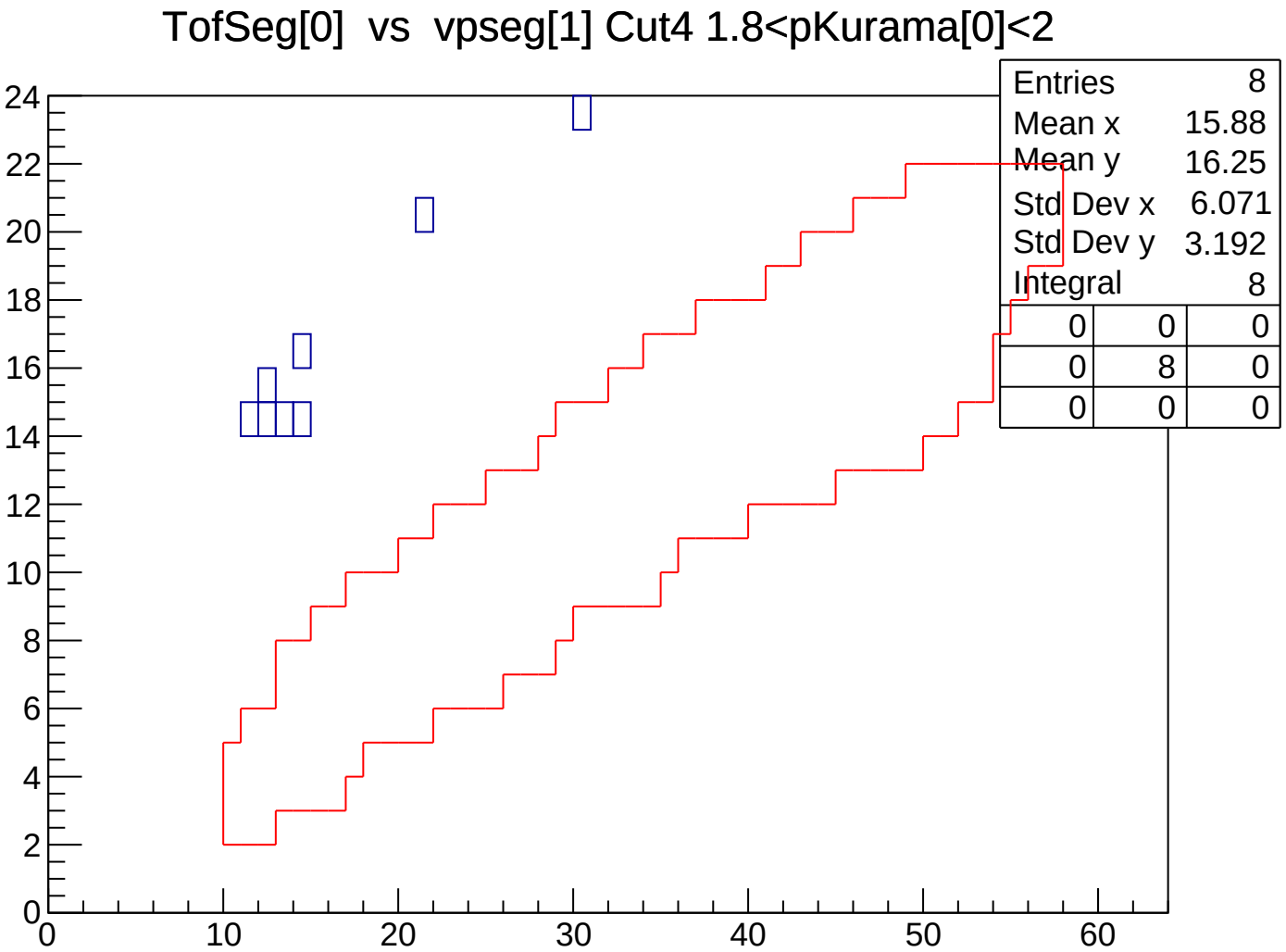

vpy[1] vs vpx[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x −160.1
Mean y −4.402
Std Dev x 44.82
Std Dev y 64.52
Integral 46
0 0 0
0 46 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

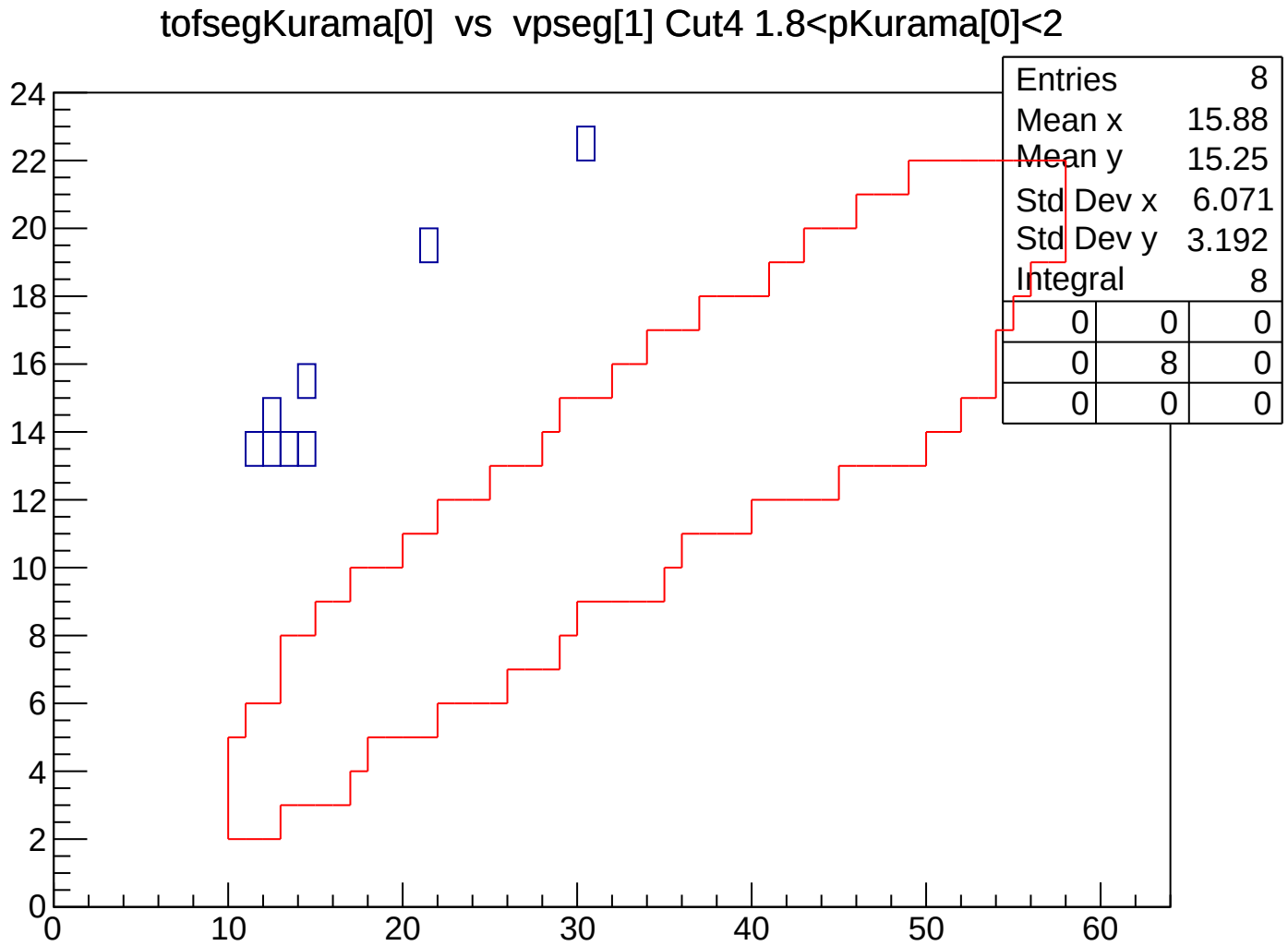

TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x 15.48
Mean y 16.2
Std Dev x 4.272
Std Dev y 2.99
Integral 46
0 0 0
0 46 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 46
Mean x 15.48
Mean y 15.7
Std Dev x 4.272
Std Dev y 2.422
Integral 46
0 0 0
0 46 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


pKurama vs m2 Cut4 1.8<pKurama[0]<2
Entries 8
Mean x 0.1661
Mean y 1.954
Std Dev x 0.211
Std Dev y 0.02948
Integral 7
0 0 0
1 7 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


vpy[1] vs vpx[1] Cut4 1.8<pKurama[0]<2
Entries 8
Mean x –154.1
Mean y –15.91
Std Dev x 62.84
Std Dev y 77.39
Integral 8
0 0 0
0 8 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400


TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 8
Mean x 15.88
Mean y 16.25
Std Dev x 6.071
Std Dev y 3.192
Integral 8
0 0 0
0 8 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] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 8
Mean x 15.88
Mean y 15.25
Std Dev x 6.071
Std Dev y 3.192
Integral 8
0 0 0
0 8 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
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50
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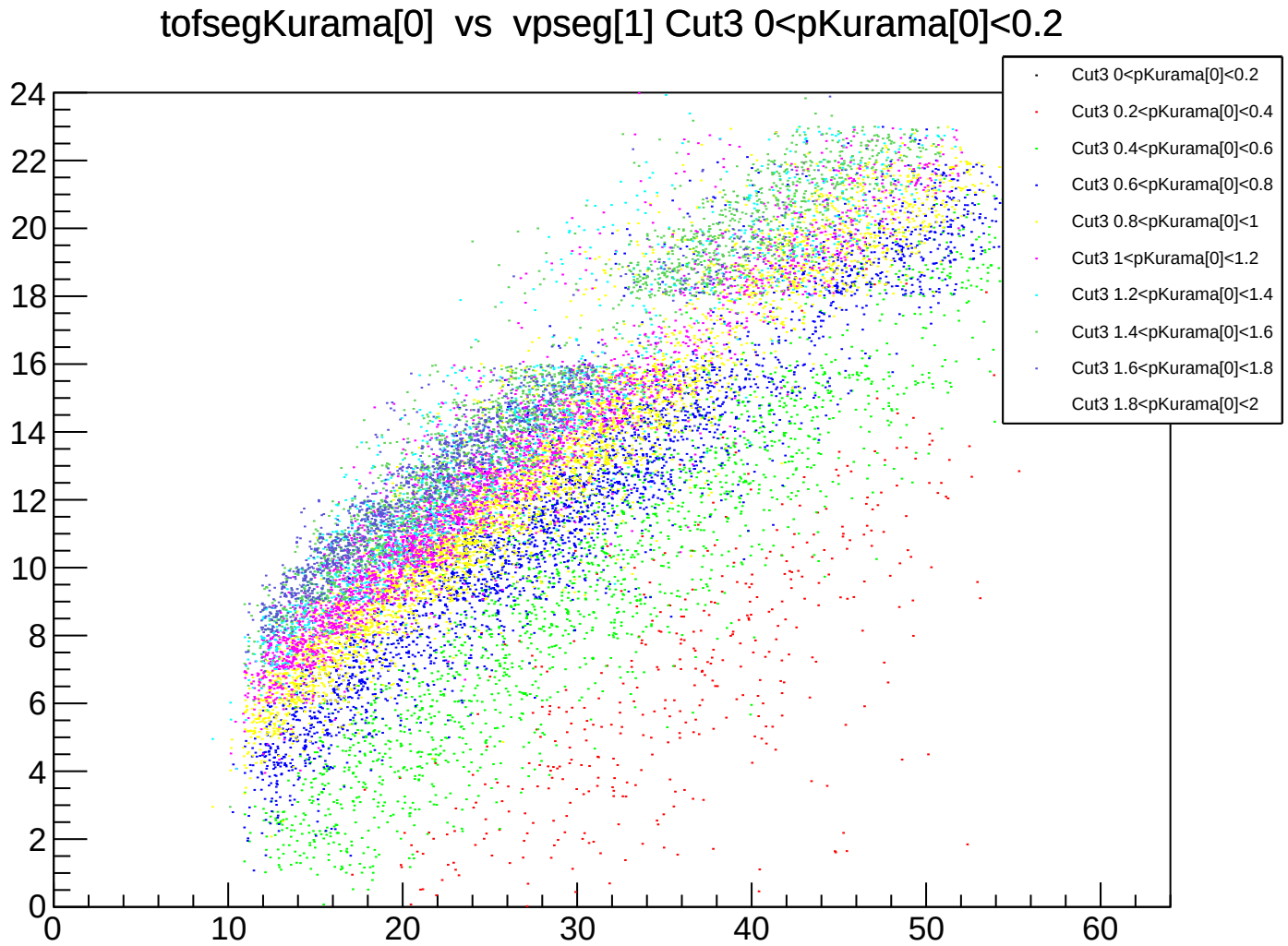
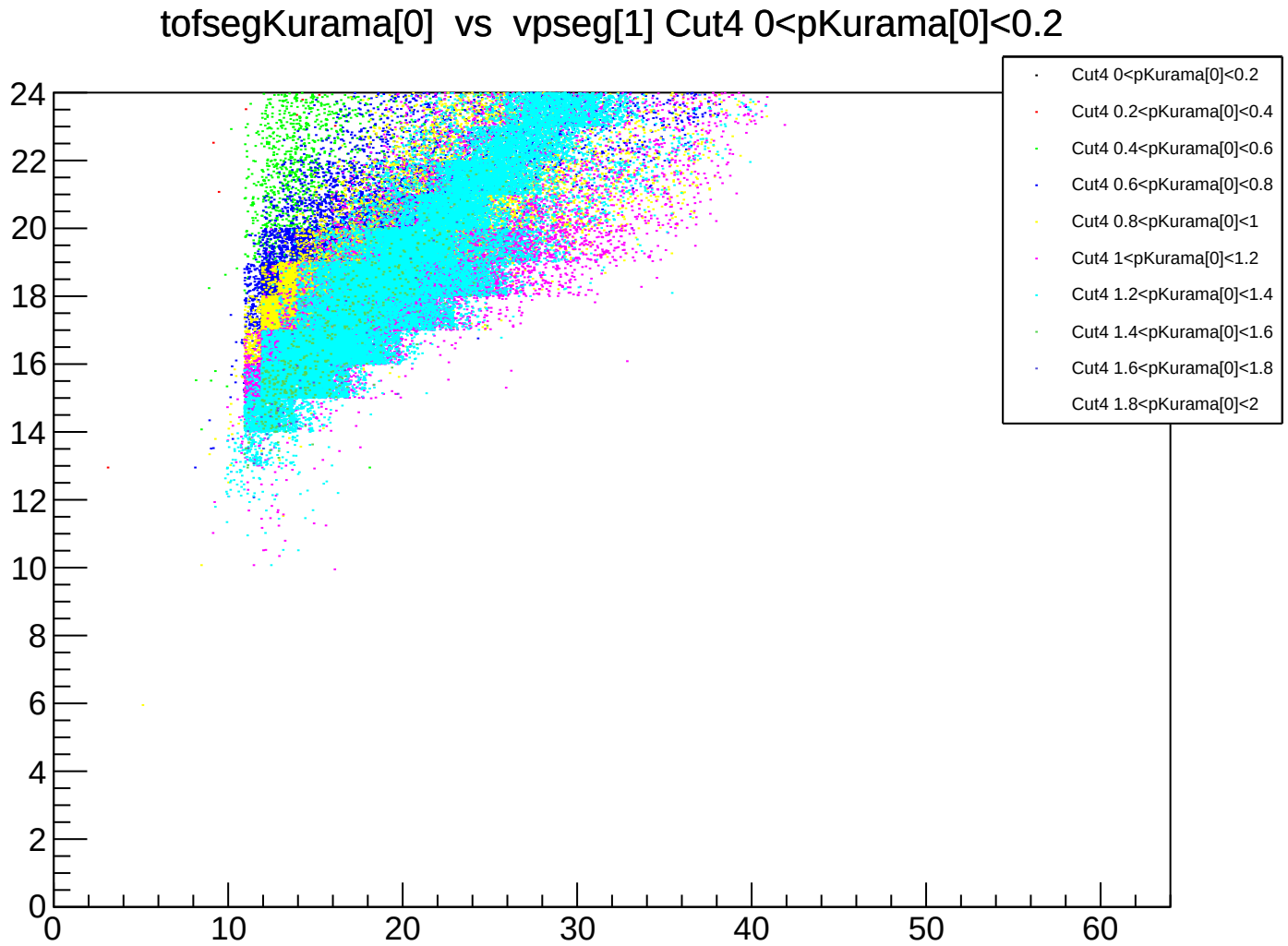

tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Cut3 0<pKurama[0]<0.2
Cut3 0.2<pKurama[0]<0.4
Cut3 0.4<pKurama[0]<0.6
Cut3 0.6<pKurama[0]<0.8
Cut3 0.8<pKurama[0]<1
Cut3 1<pKurama[0]<1.2
Cut3 1.2<pKurama[0]<1.4
Cut3 1.4<pKurama[0]<1.6
Cut3 1.6<pKurama[0]<1.8
Cut3 1.8<pKurama[0]<2
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Cut4 0<pKurama[0]<0.2
Cut4 0.2<pKurama[0]<0.4
Cut4 0.4<pKurama[0]<0.6
Cut4 0.6<pKurama[0]<0.8
Cut4 0.8<pKurama[0]<1
Cut4 1<pKurama[0]<1.2
Cut4 1.2<pKurama[0]<1.4
Cut4 1.4<pKurama[0]<1.6
Cut4 1.6<pKurama[0]<1.8
Cut4 1.8<pKurama[0]<2
0
2
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8
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22
24
0
10
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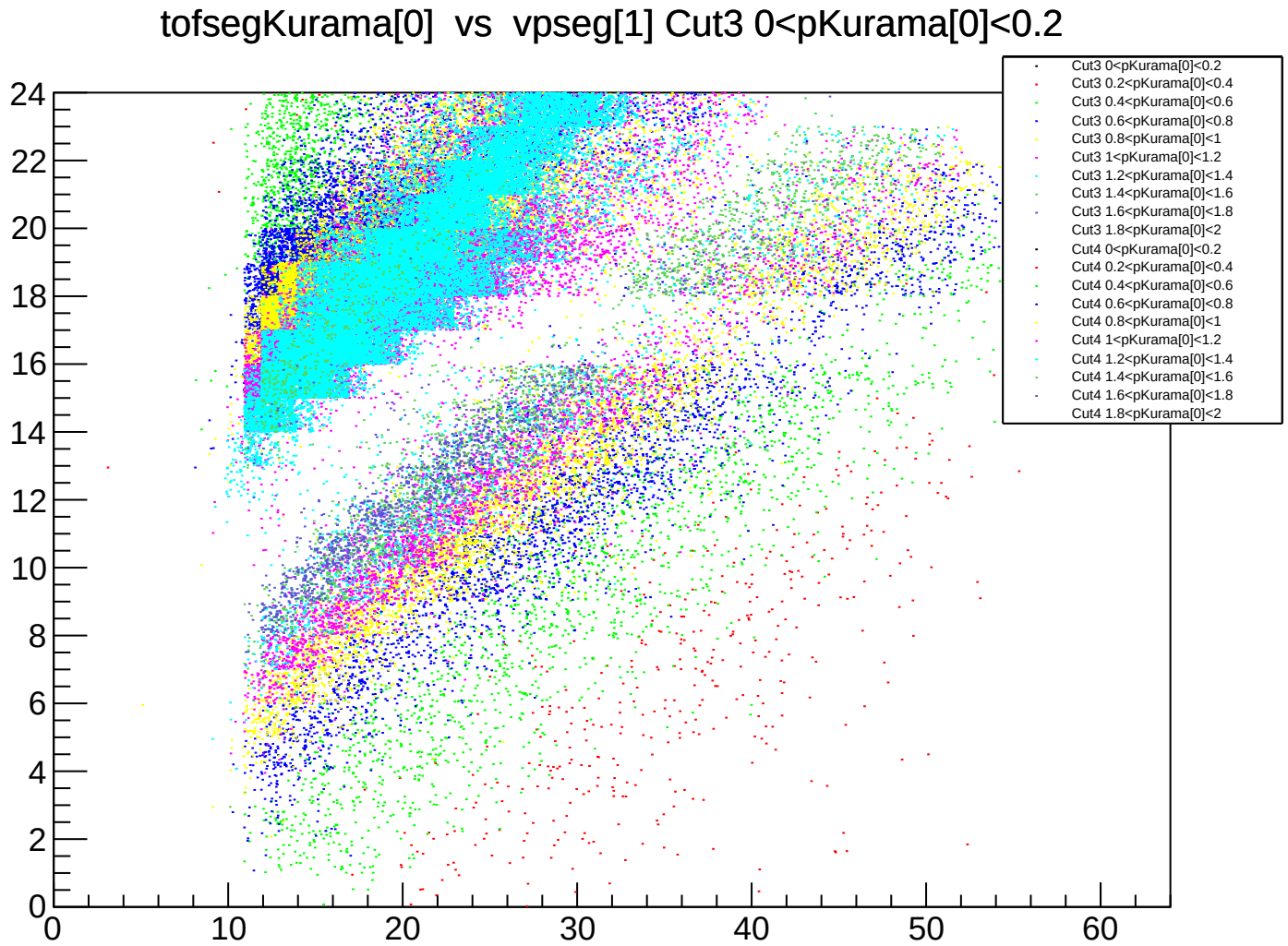
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Cut3 0<pKurama[0]<0.2
Cut3 0.2<pKurama[0]<0.4
Cut3 0.4<pKurama[0]<0.6
Cut3 0.6<pKurama[0]<0.8
Cut3 0.8<pKurama[0]<1
Cut3 1<pKurama[0]<1.2
Cut3 1.2<pKurama[0]<1.4
Cut3 1.4<pKurama[0]<1.6
Cut3 1.6<pKurama[0]<1.8
Cut3 1.8<pKurama[0]<2
Cut4 0<pKurama[0]<0.2
Cut4 0.2<pKurama[0]<0.4
Cut4 0.4<pKurama[0]<0.6
Cut4 0.6<pKurama[0]<0.8
Cut4 0.8<pKurama[0]<1
Cut4 1<pKurama[0]<1.2
Cut4 1.2<pKurama[0]<1.4
Cut4 1.4<pKurama[0]<1.6
Cut4 1.6<pKurama[0]<1.8
Cut4 1.8<pKurama[0]<2
0
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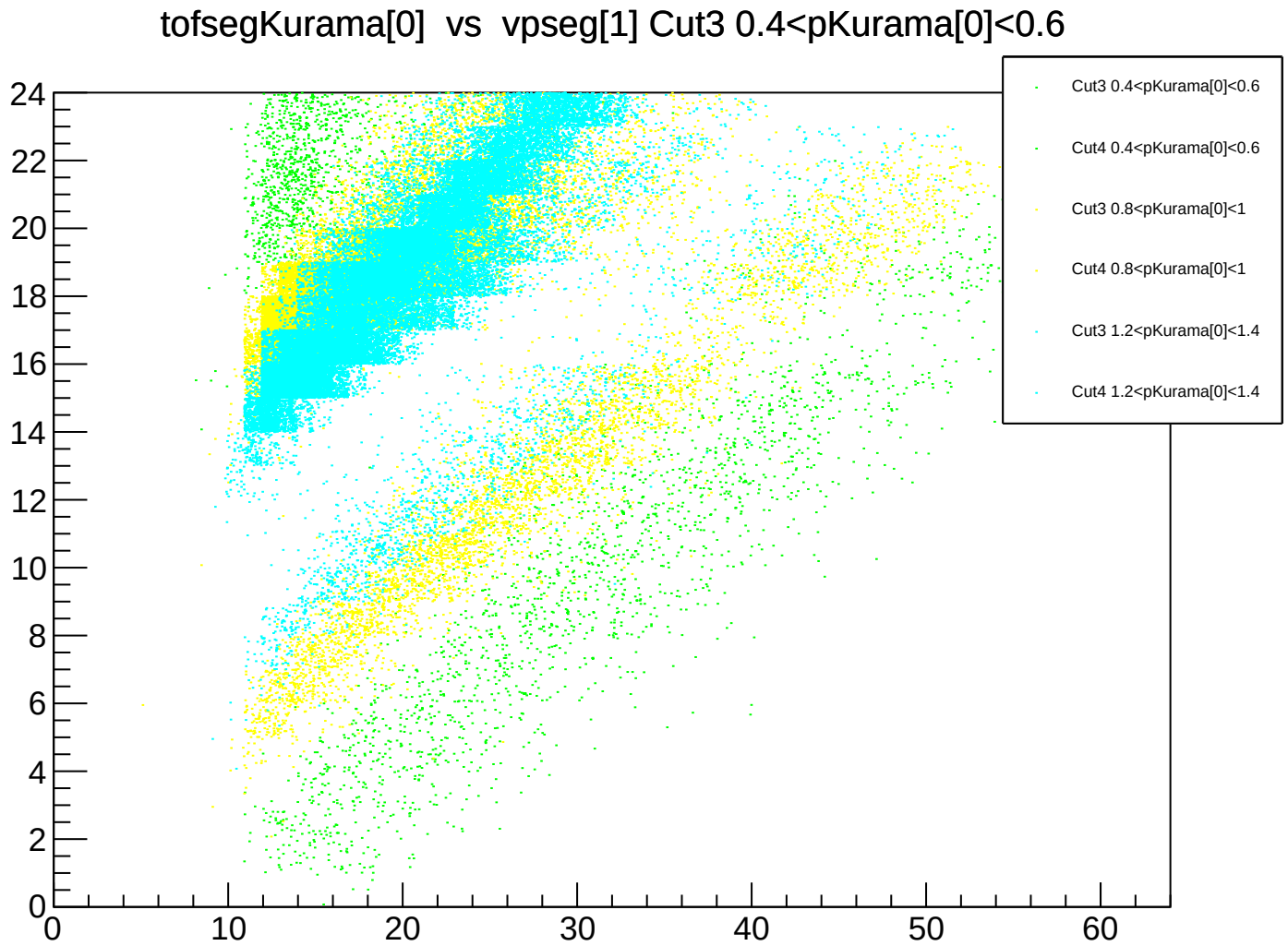
tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Cut3 0.4<pKurama[0]<0.6
Cut4 0.4<pKurama[0]<0.6
Cut3 0.8<pKurama[0]<1
Cut4 0.8<pKurama[0]<1
Cut3 1.2<pKurama[0]<1.4
Cut4 1.2<pKurama[0]<1.4
0
2
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6
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12
14
16
18
20
22
24
0
10
20
30
40
50
60