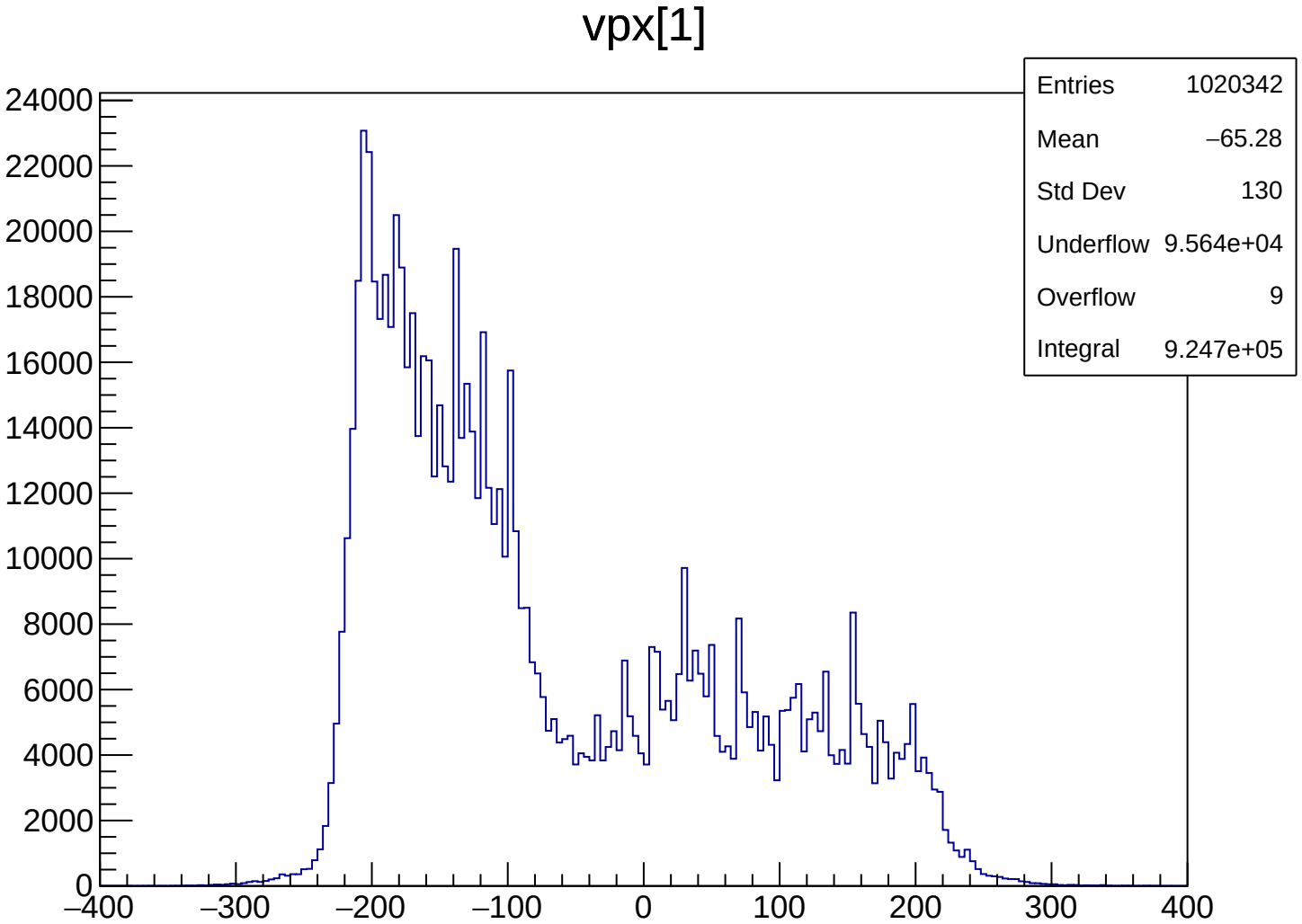
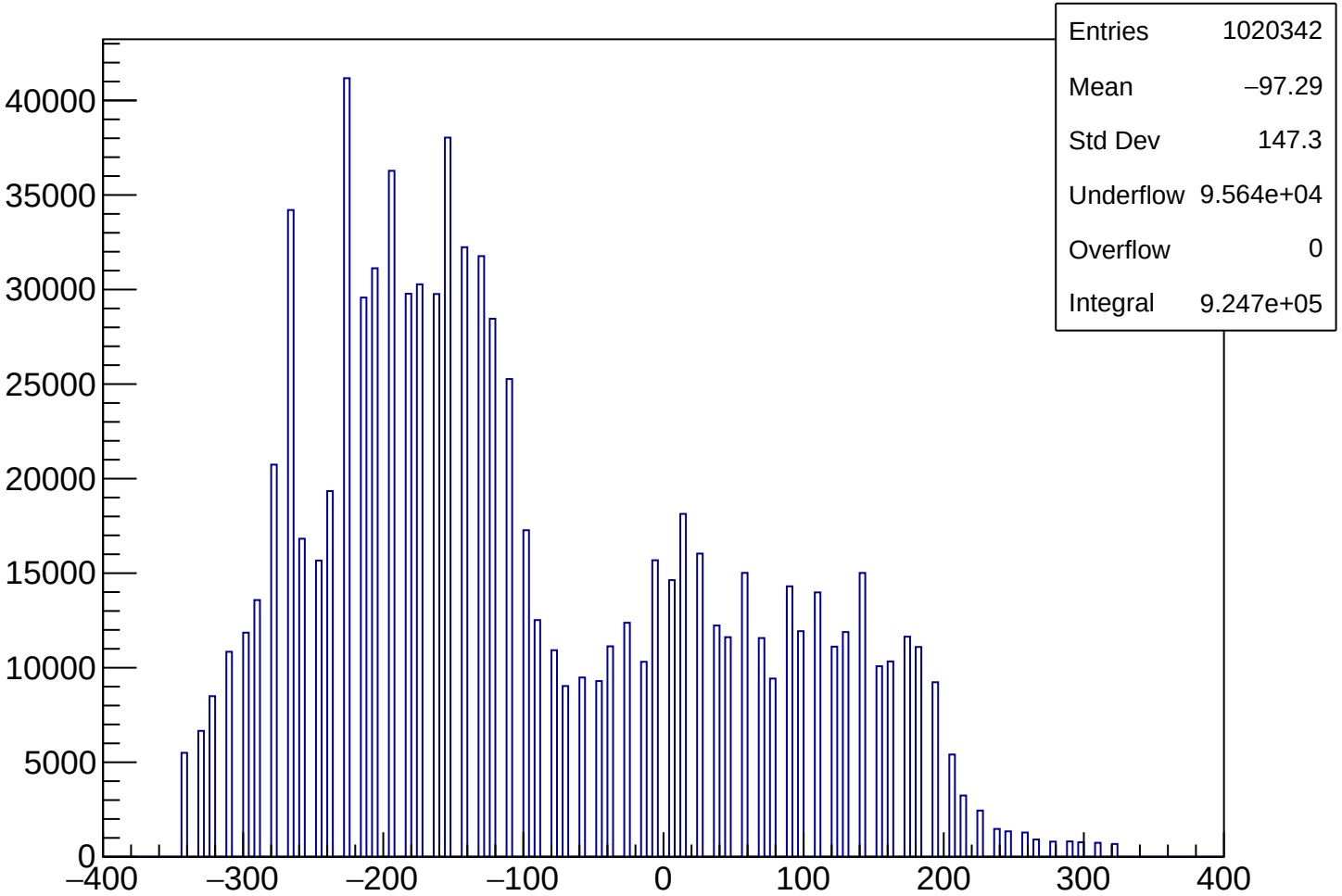
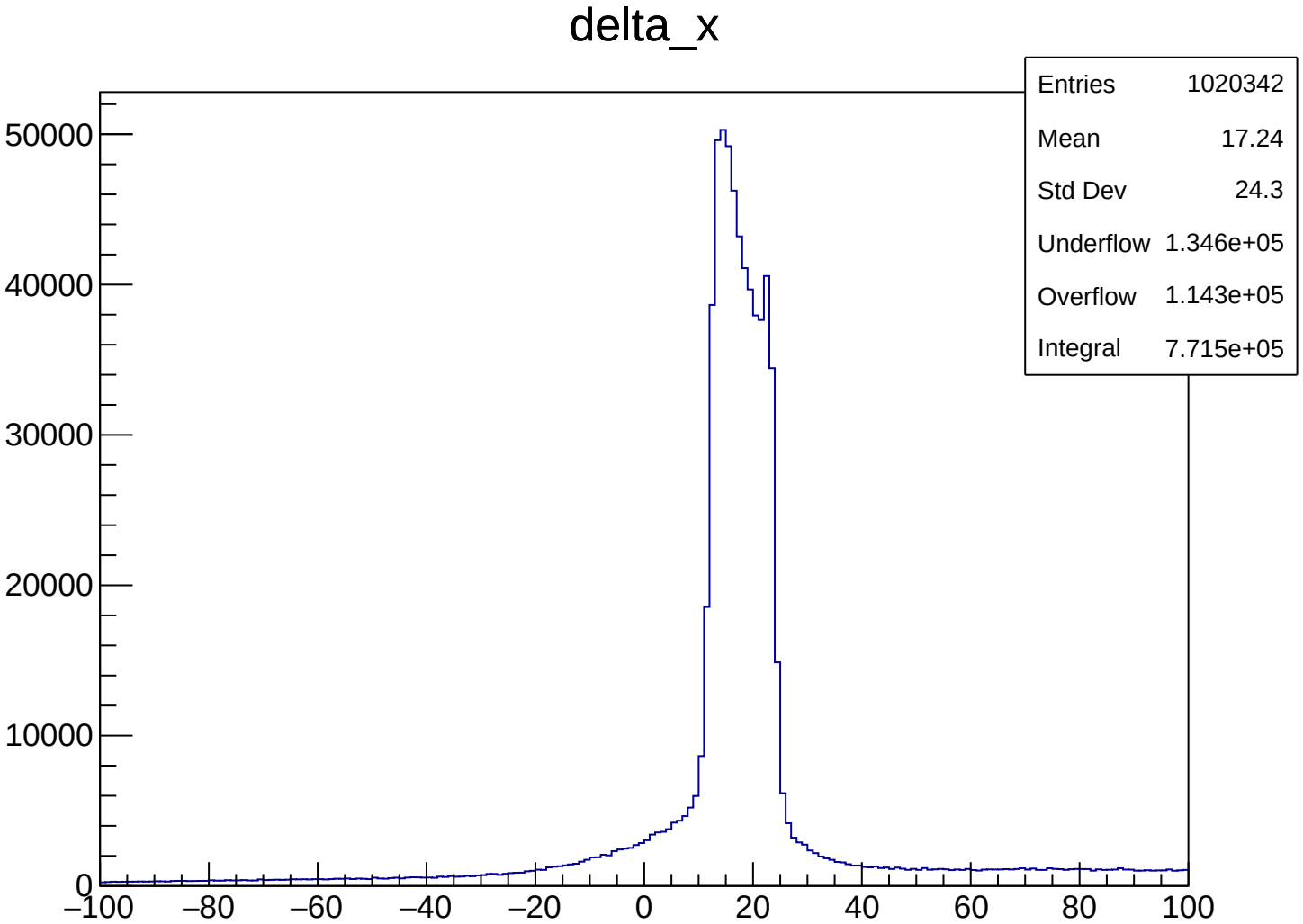
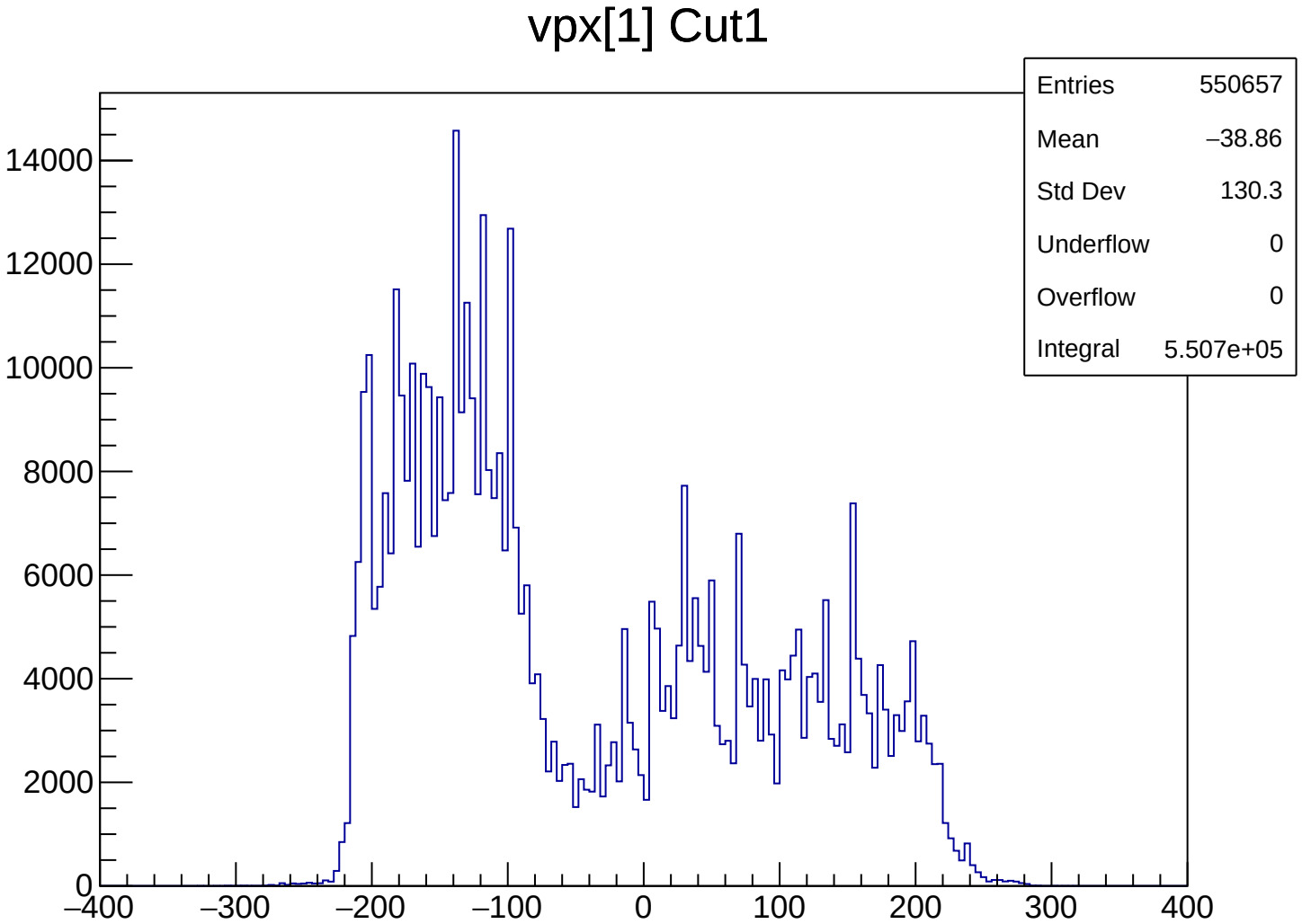
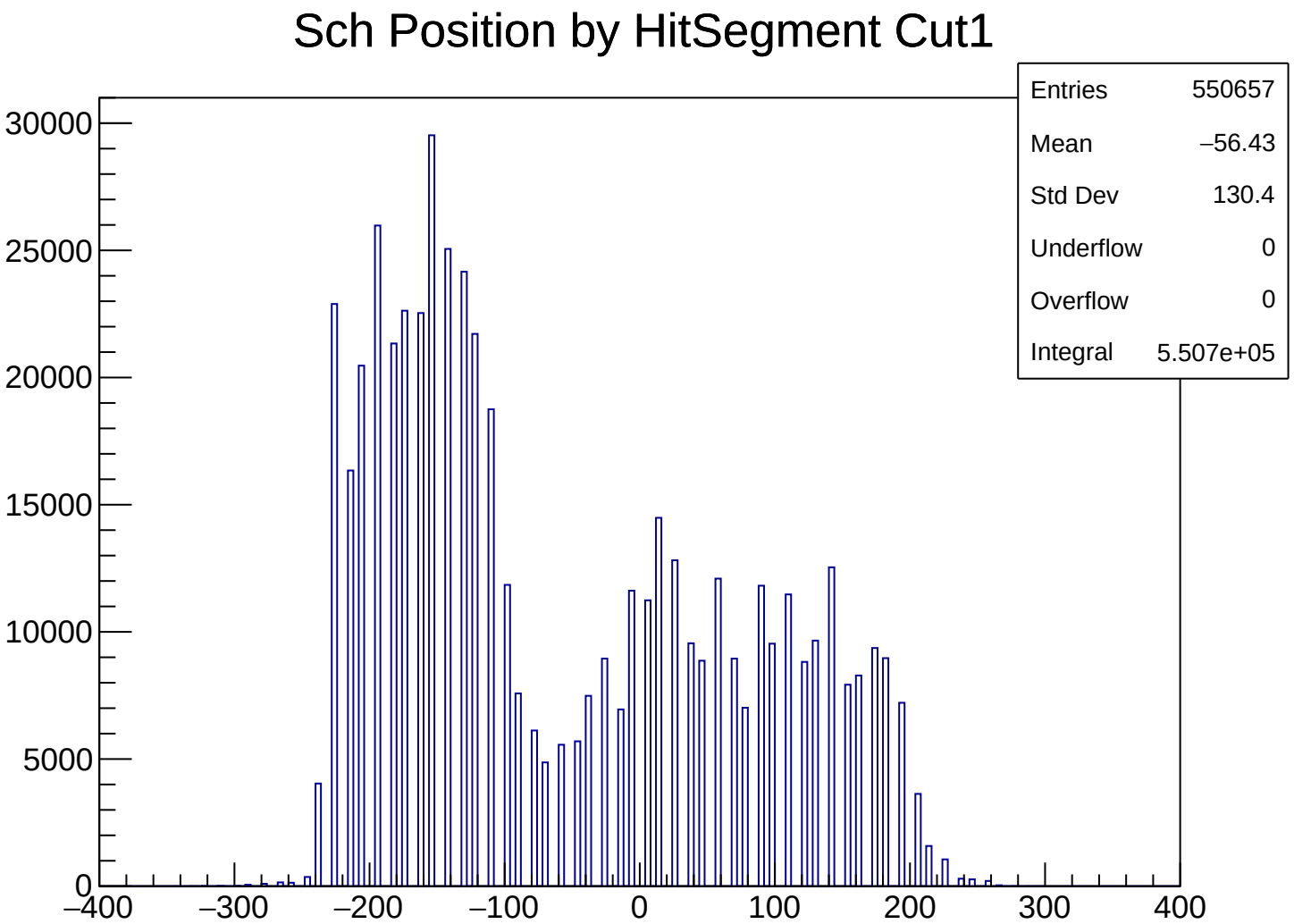

vpx[1]
Entries 1020342
Mean −65.28
Std Dev 130
Underflow 9.564e+04
Overflow 9
Integral 9.247e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

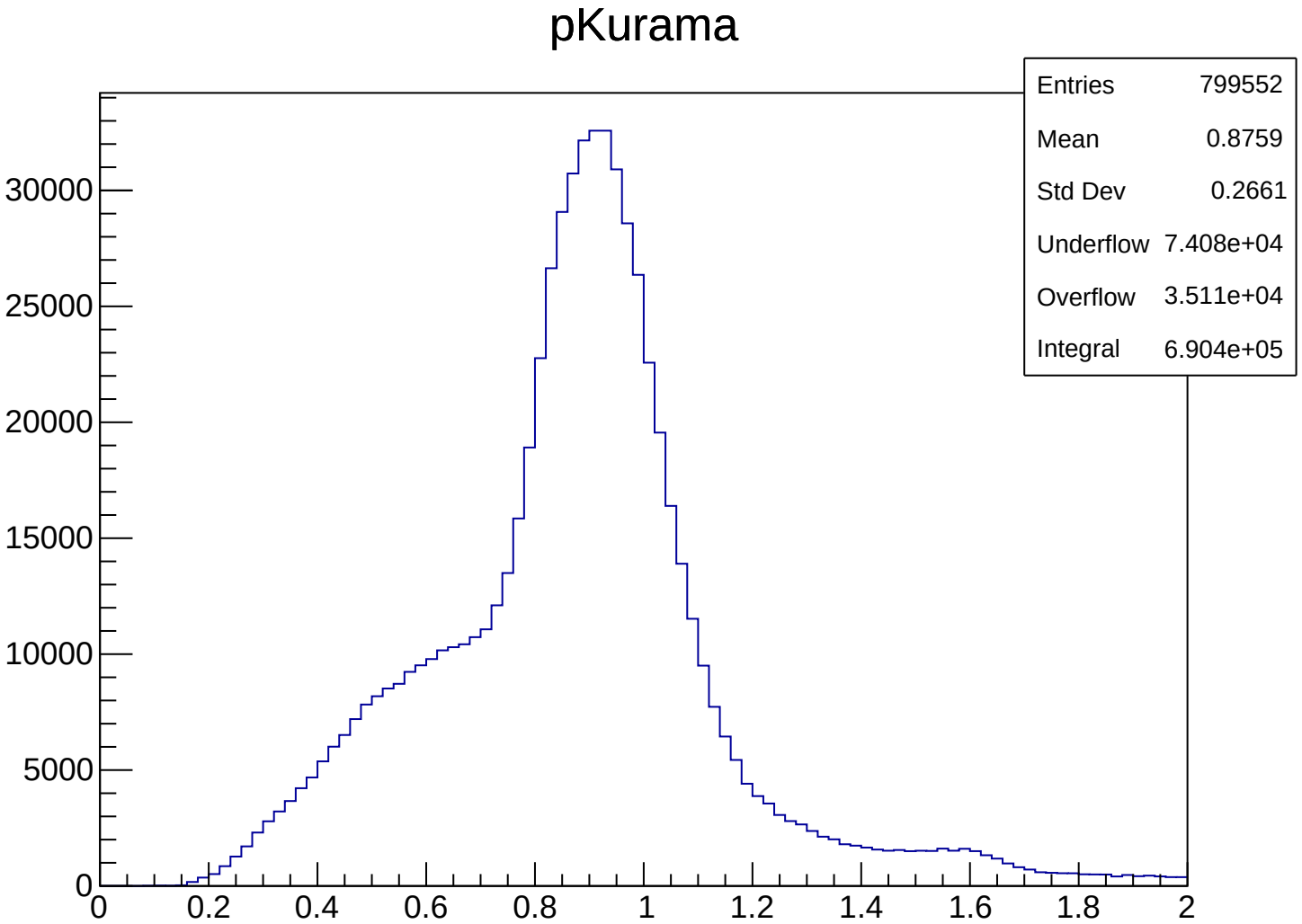
Sch Position by HitSegment

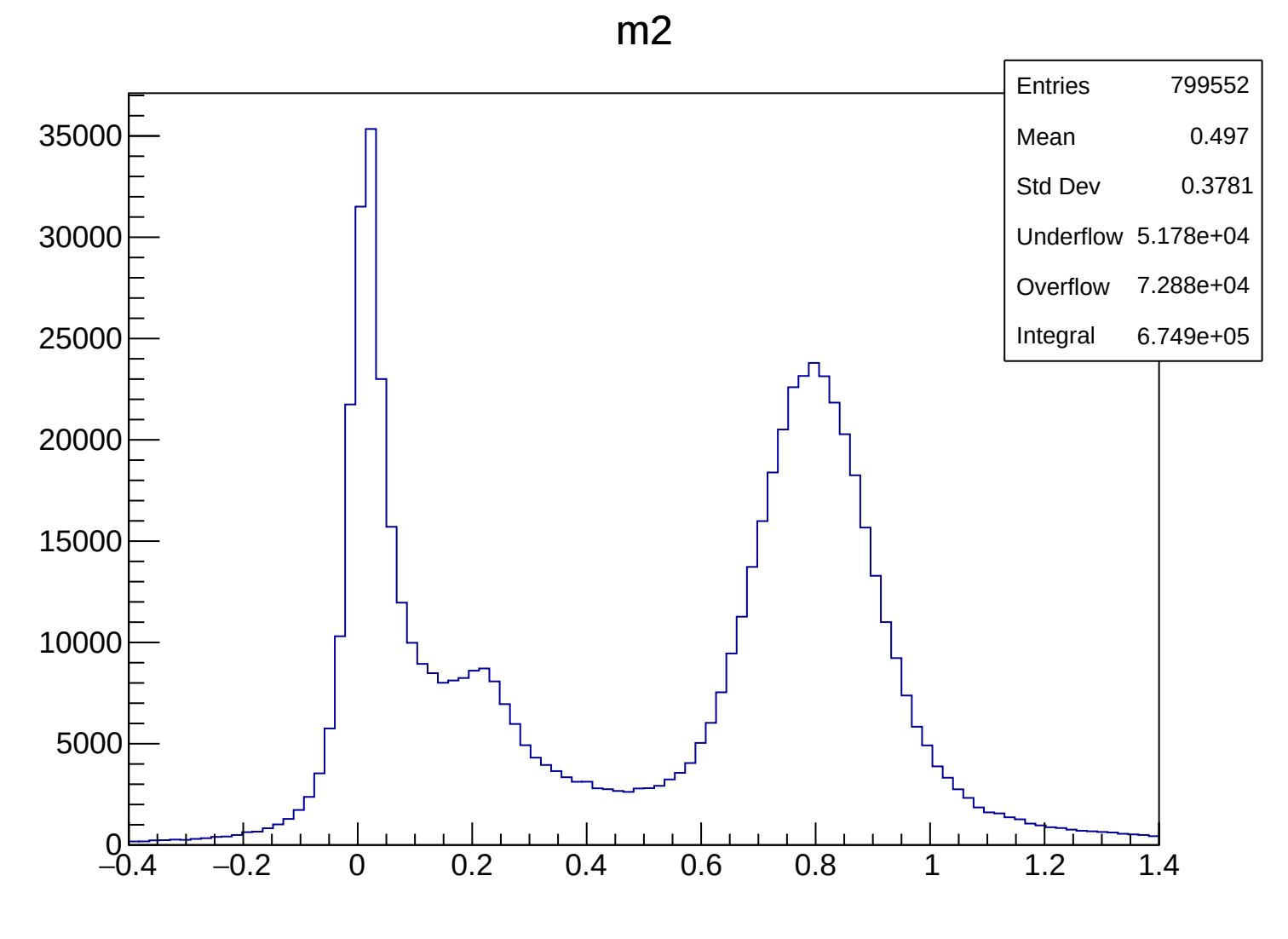


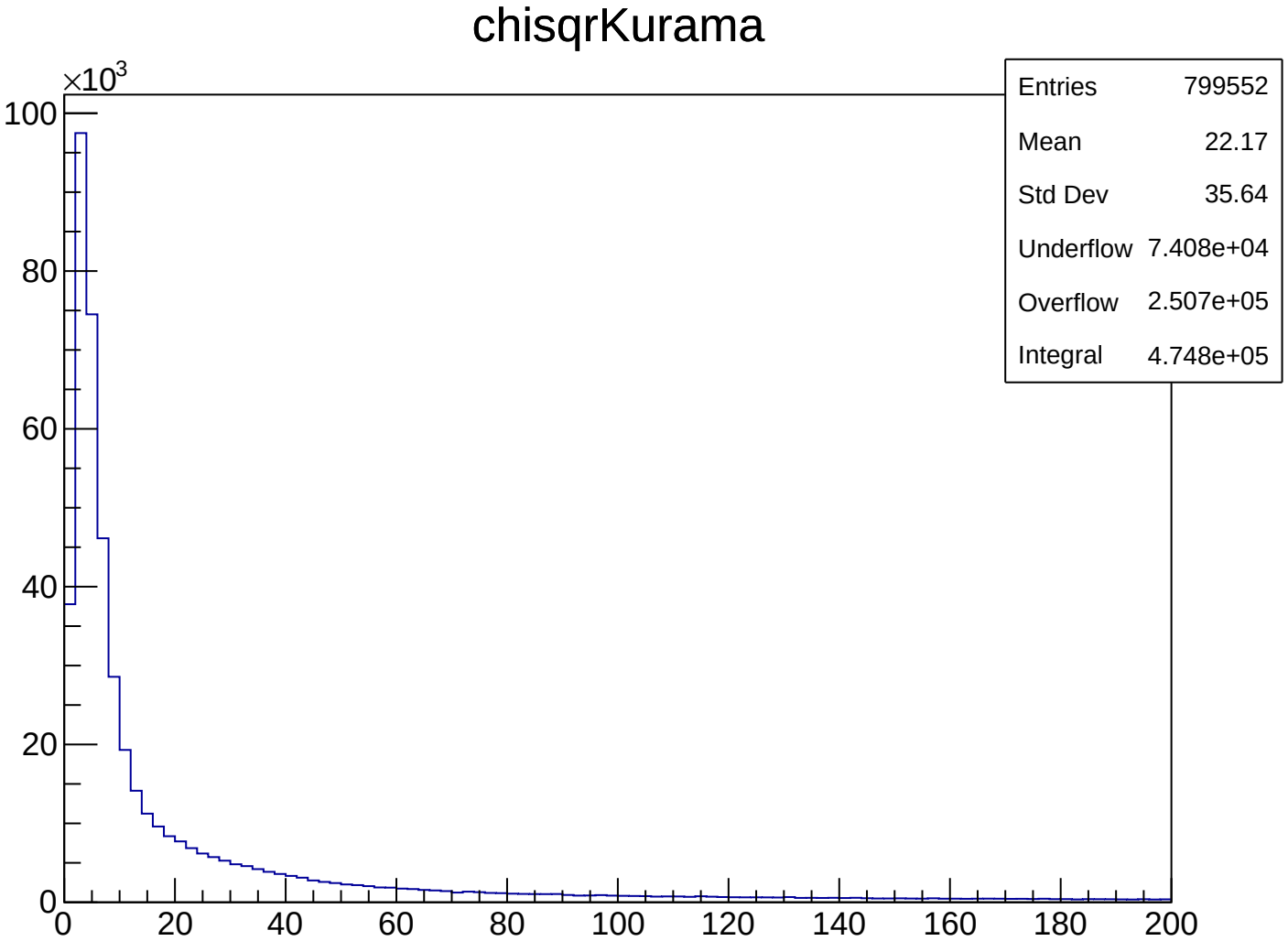

delta_x
Entries 1020342
Mean 17.24
Std Dev 24.3
Underflow 1.346e+05
Overflow 1.143e+05
Integral 7.715e+05
50000
40000
30000
20000
10000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

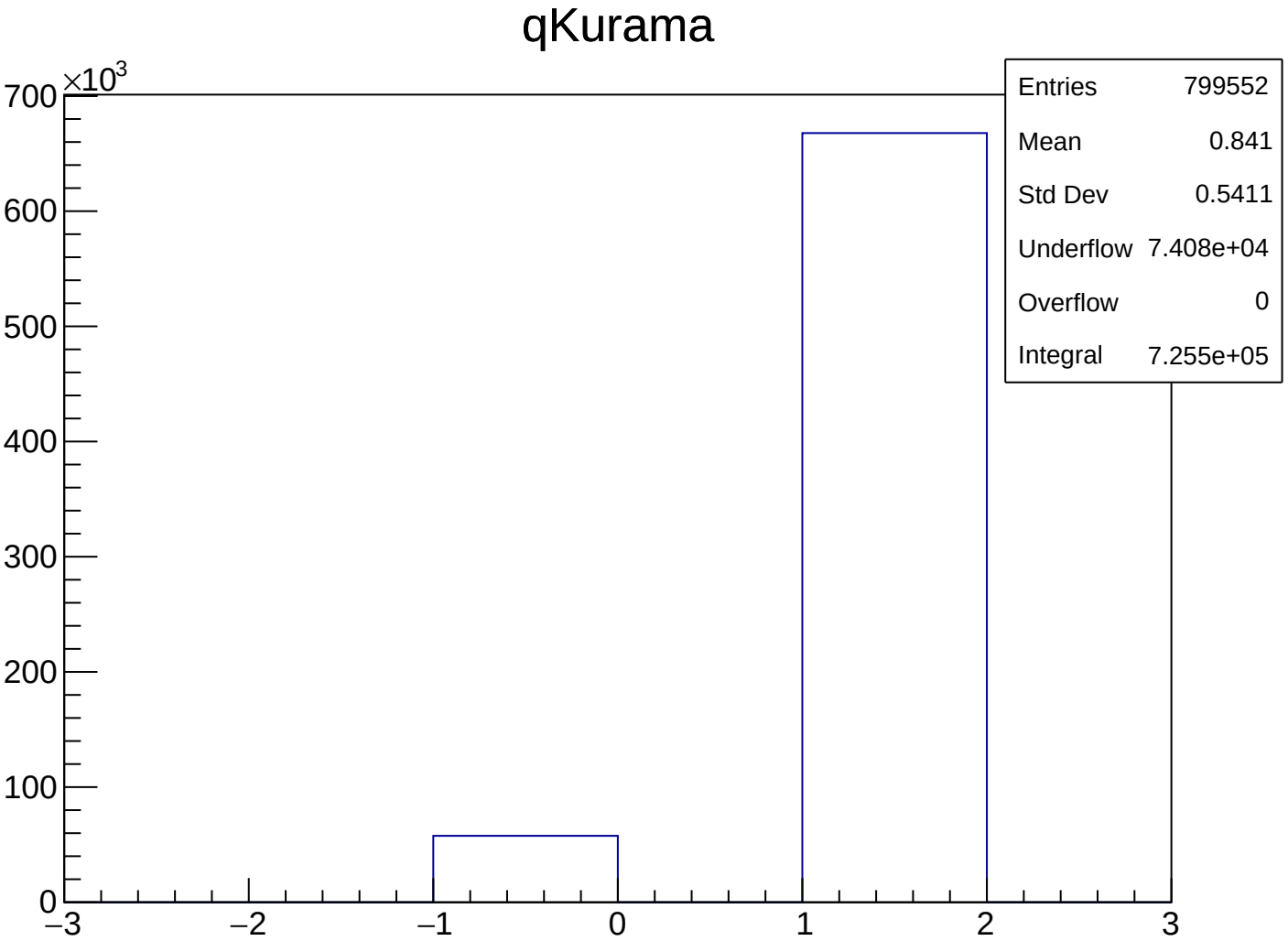

vpx[1] Cut1
Entries 550657
Mean –38.86
Std Dev 130.3
Underflow 0
Overflow 0
Integral 5.507e+05
14000
12000
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

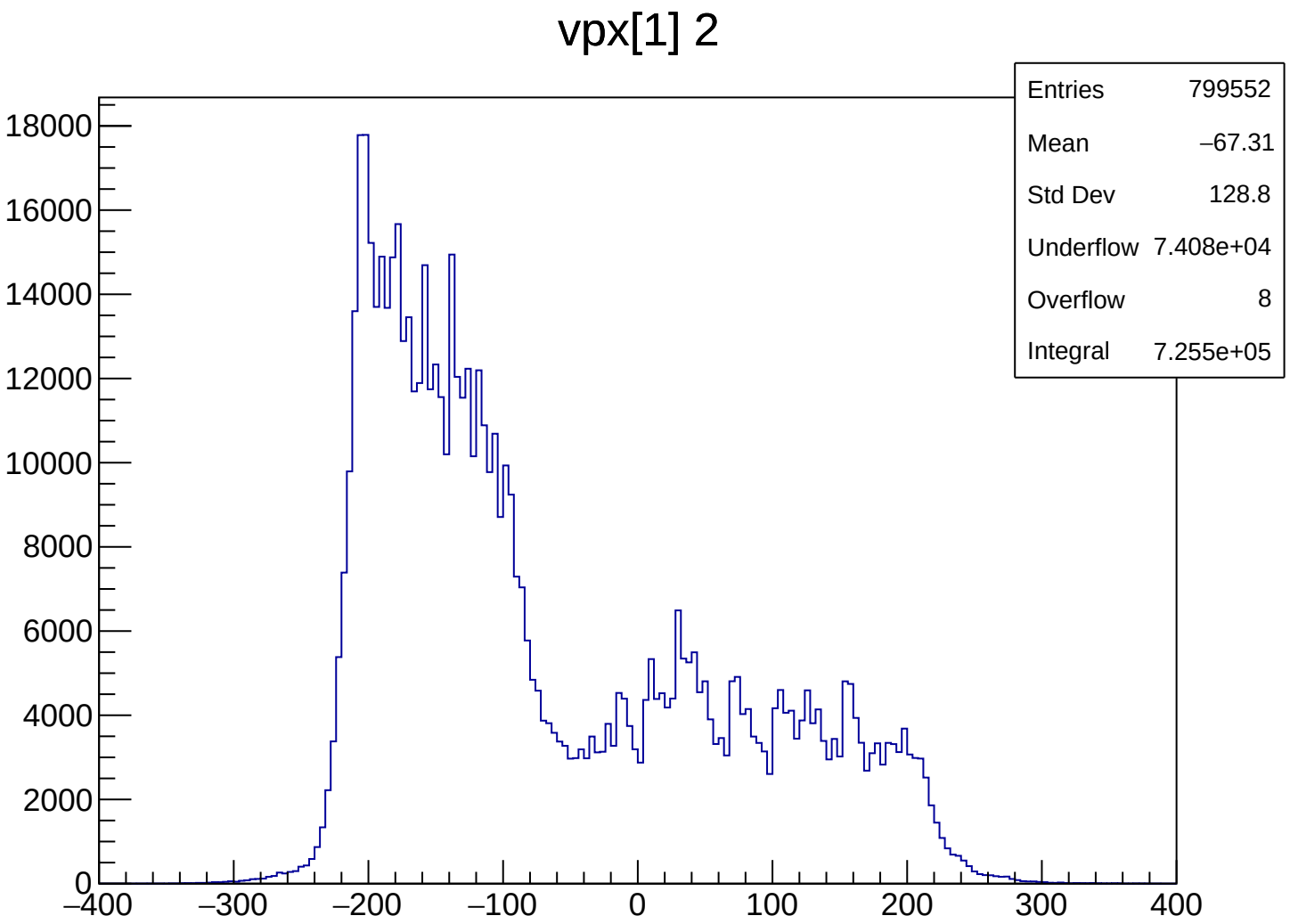

Sch Position by HitSegment Cut1
Entries 550657
Mean –56.43
Std Dev 130.4
Underflow 0
Overflow 0
Integral 5.507e+05
30000
25000
20000
15000
10000
5000
0
–400
–300
–200
–100
0
100
200
300
400

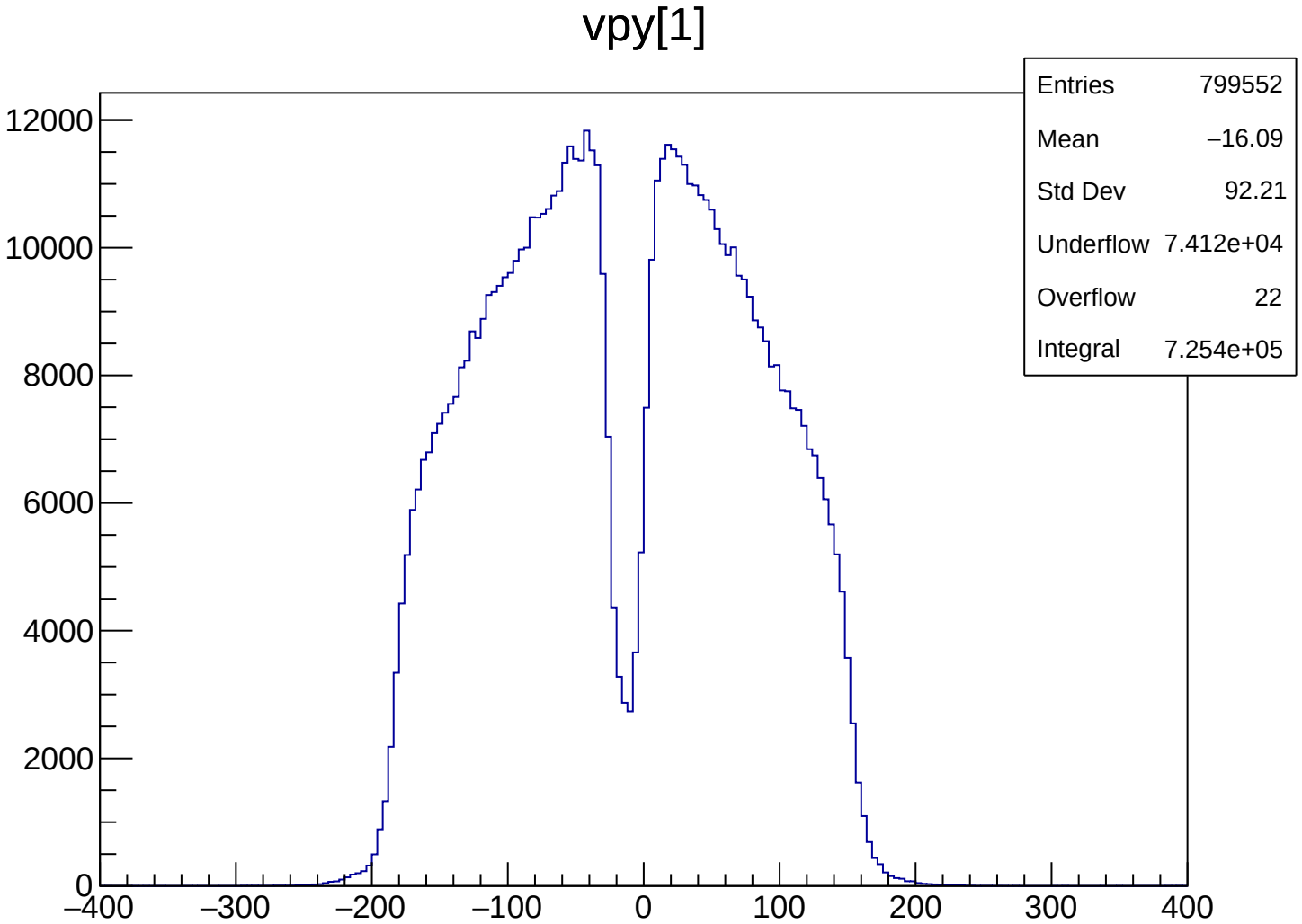

pKurama
Entries 799552
Mean 0.8759
Std Dev 0.2661
Underflow 7.408e+04
Overflow 3.511e+04
Integral 6.904e+05
30000
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

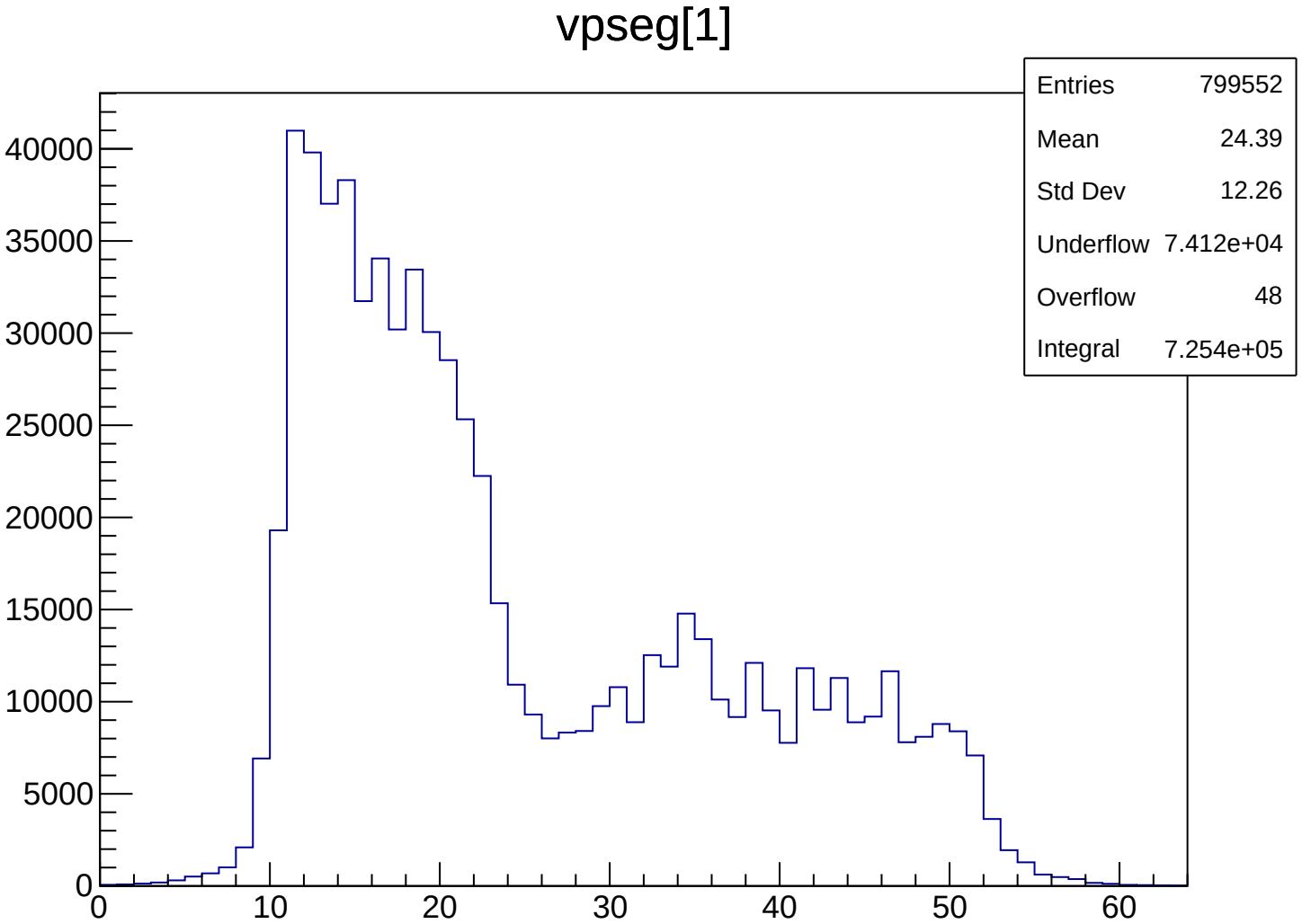

m2
Entries 799552
Mean 0.497
Std Dev 0.3781
Underflow 5.178e+04
Overflow 7.288e+04
Integral 6.749e+05
35000
30000
25000
20000
15000
10000
5000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

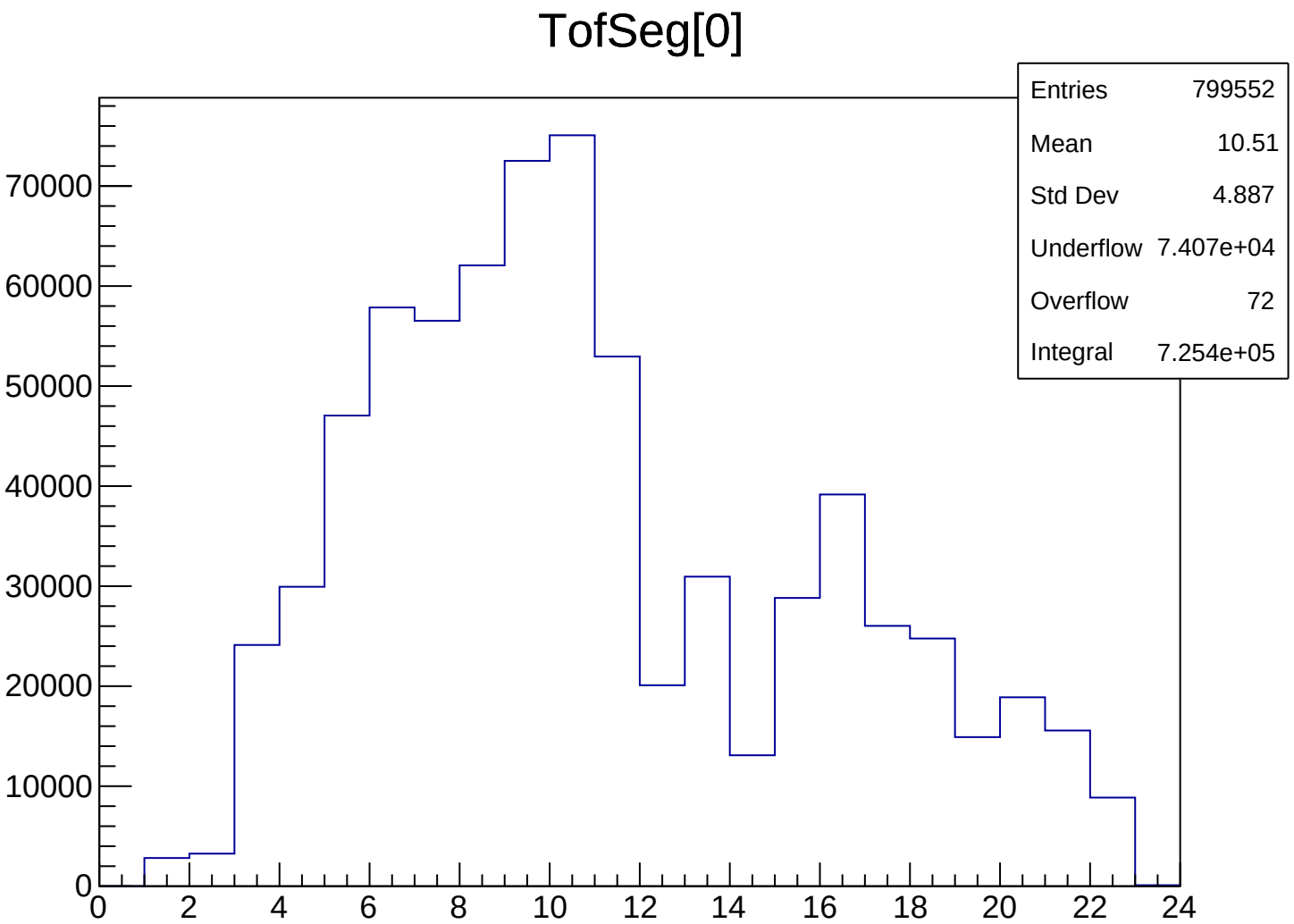

chisqrKurama
×10^3
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
Entries 799552
Mean 22.17
Std Dev 35.64
Underflow 7.408e+04
Overflow 2.507e+05
Integral 4.748e+05

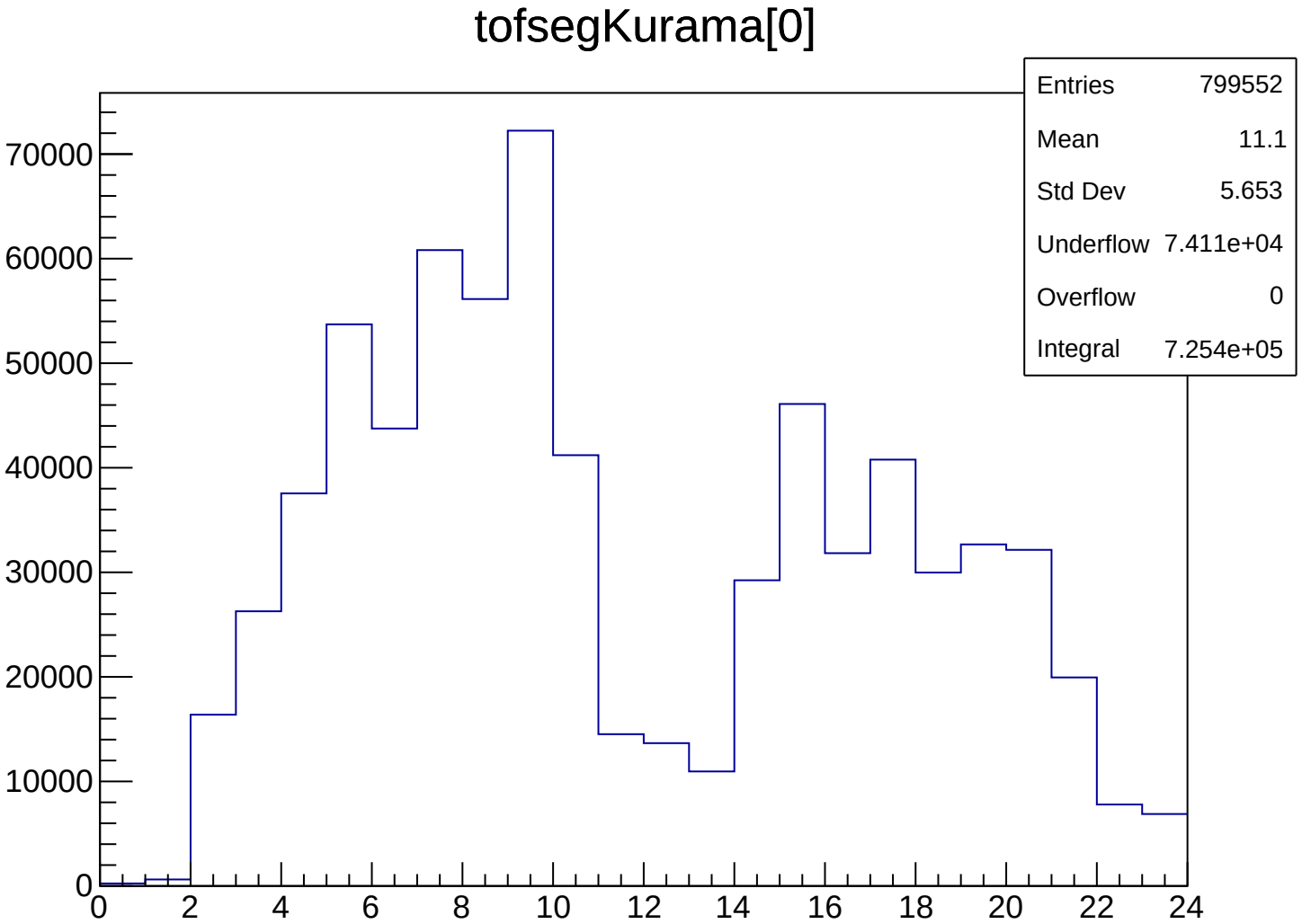

qKurama
×10^3
700
600
500
400
300
200
100
0
−3
−2
−1
0
1
2
3
Entries 799552
Mean 0.841
Std Dev 0.5411
Underflow 7.408e+04
Overflow 0
Integral 7.255e+05

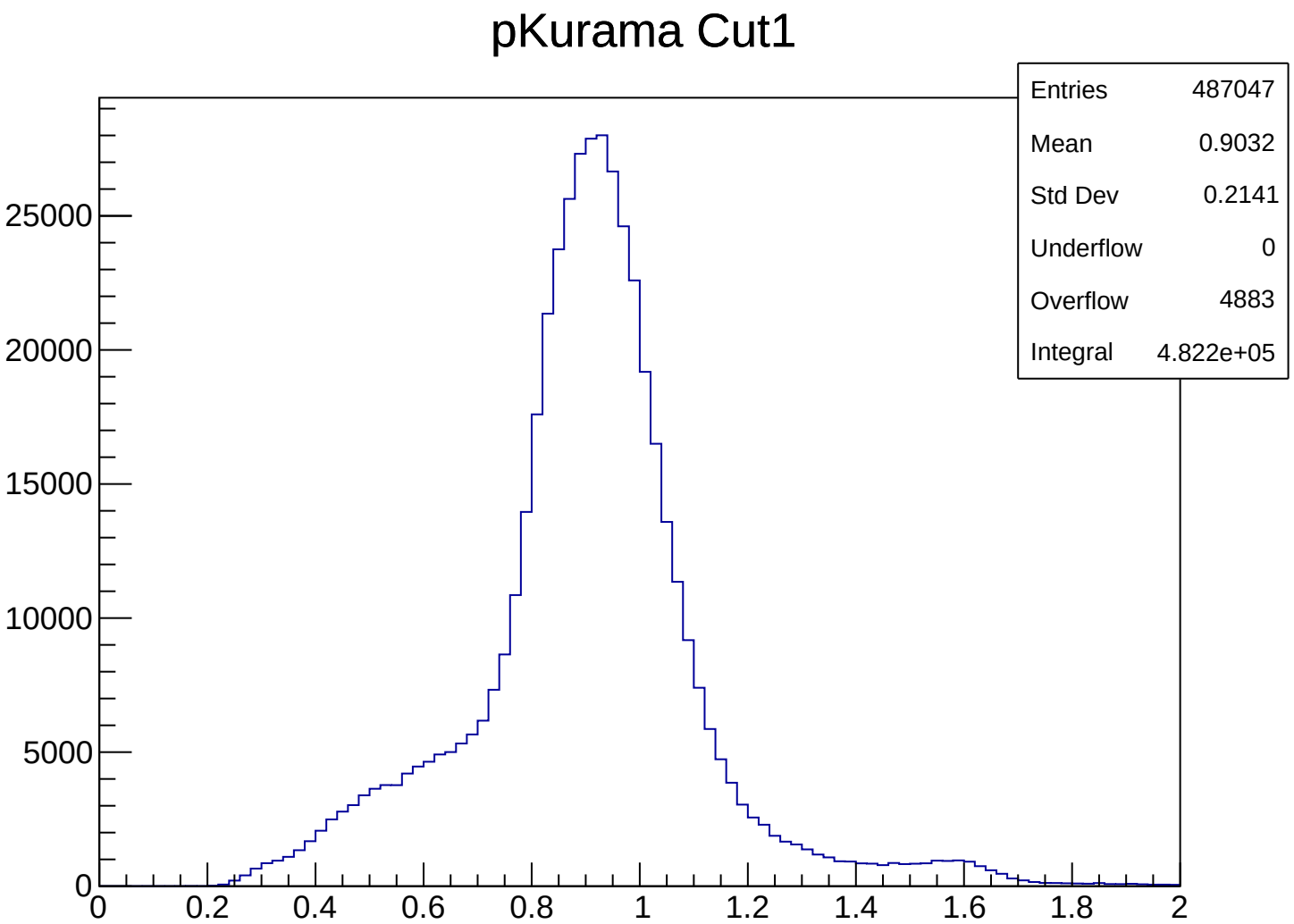

vpx[1] 2
Entries 799552
Mean –67.31
Std Dev 128.8
Underflow 7.408e+04
Overflow 8
Integral 7.255e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

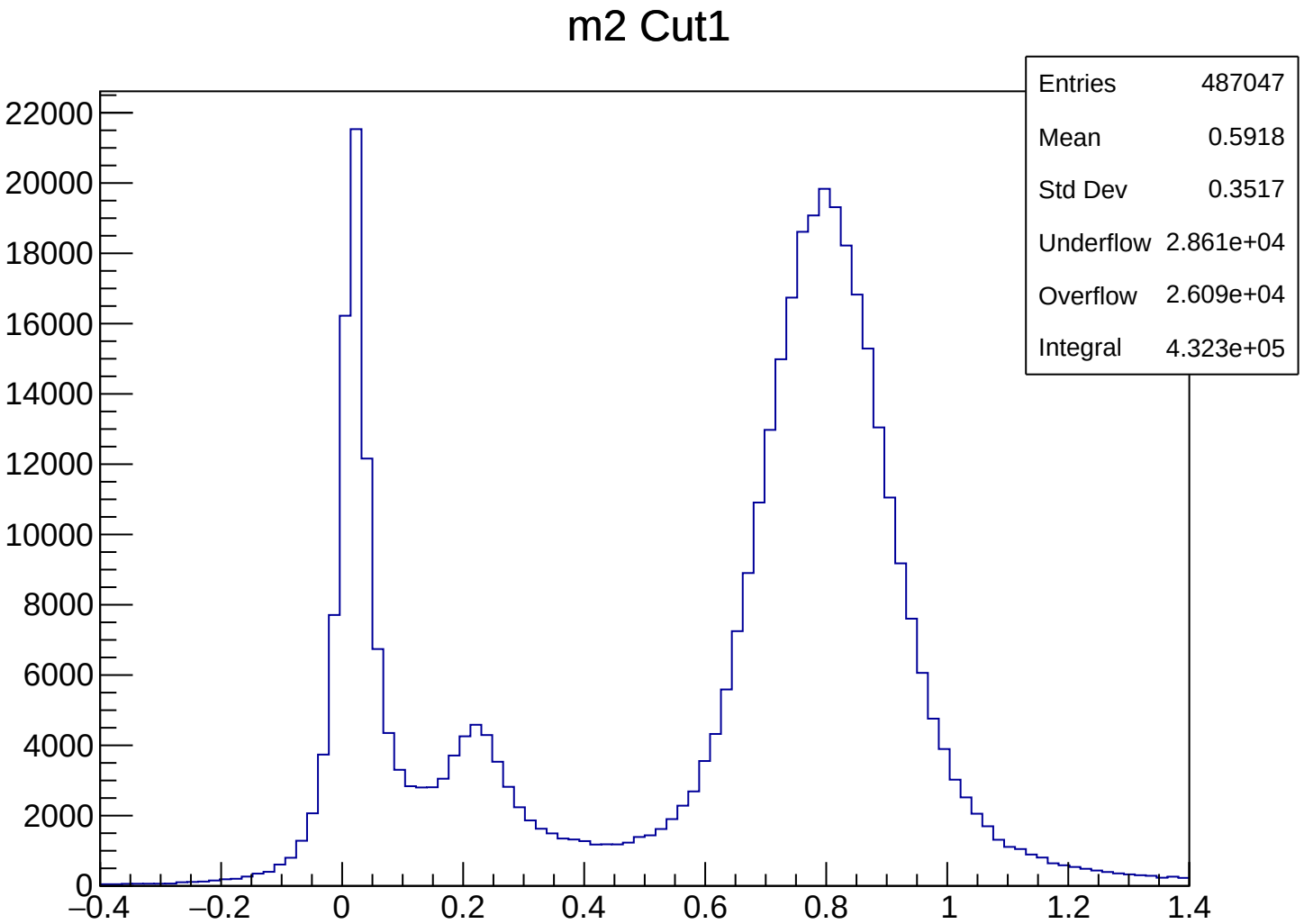

vpy[1]
Entries 799552
Mean −16.09
Std Dev 92.21
Underflow 7.412e+04
Overflow 22
Integral 7.254e+05
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

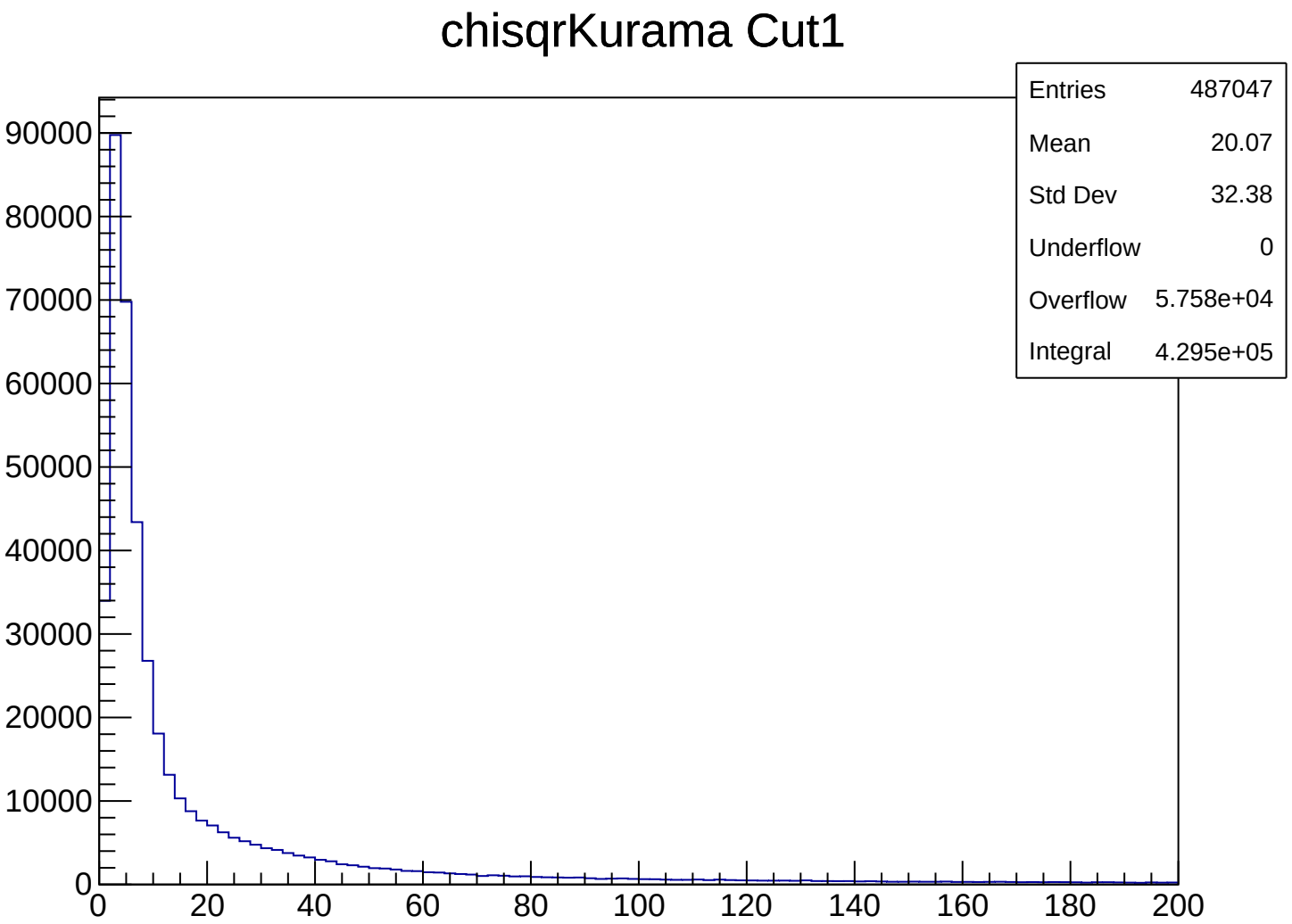

vpseg[1]
Entries 799552
Mean 24.39
Std Dev 12.26
Underflow 7.412e+04
Overflow 48
Integral 7.254e+05
40000
35000
30000
25000
20000
15000
10000
5000
0
0
10
20
30
40
50
60

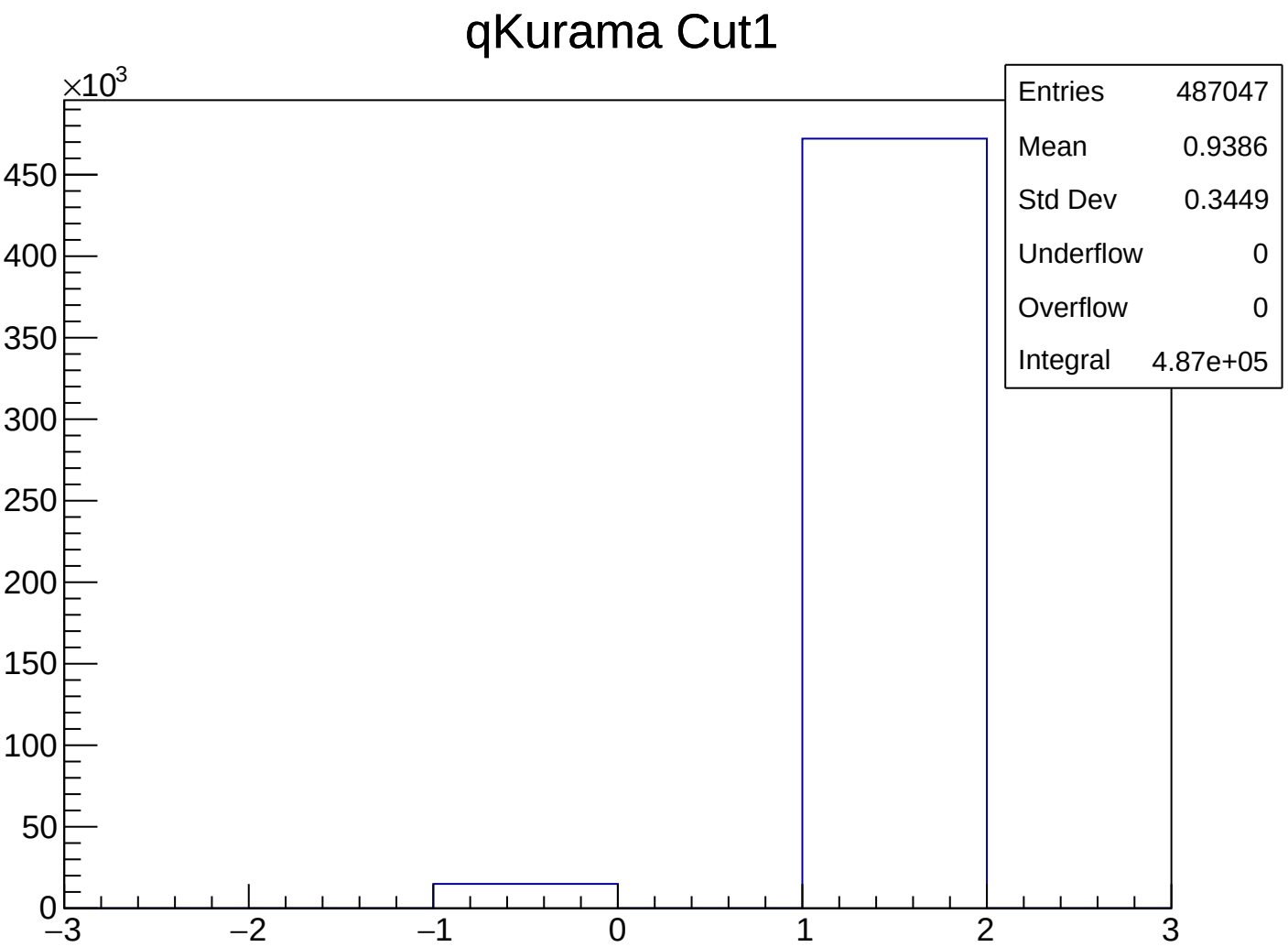

TofSeg[0]
Entries 799552
Mean 10.51
Std Dev 4.887
Underflow 7.407e+04
Overflow 72
Integral 7.254e+05
70000
60000
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

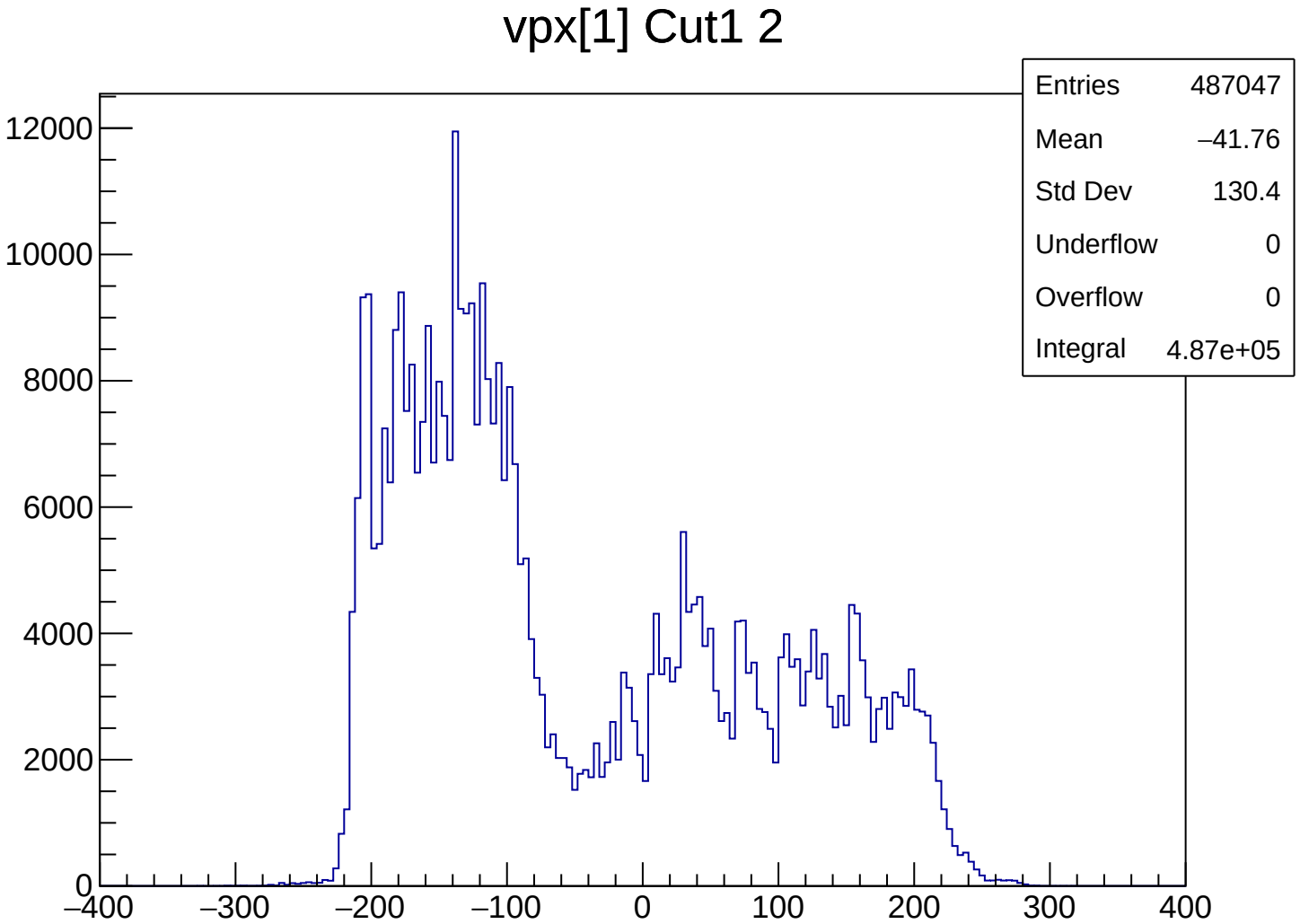

tofsegKurama[0]
Entries 799552
Mean 11.1
Std Dev 5.653
Underflow 7.411e+04
Overflow 0
Integral 7.254e+05
70000
60000
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

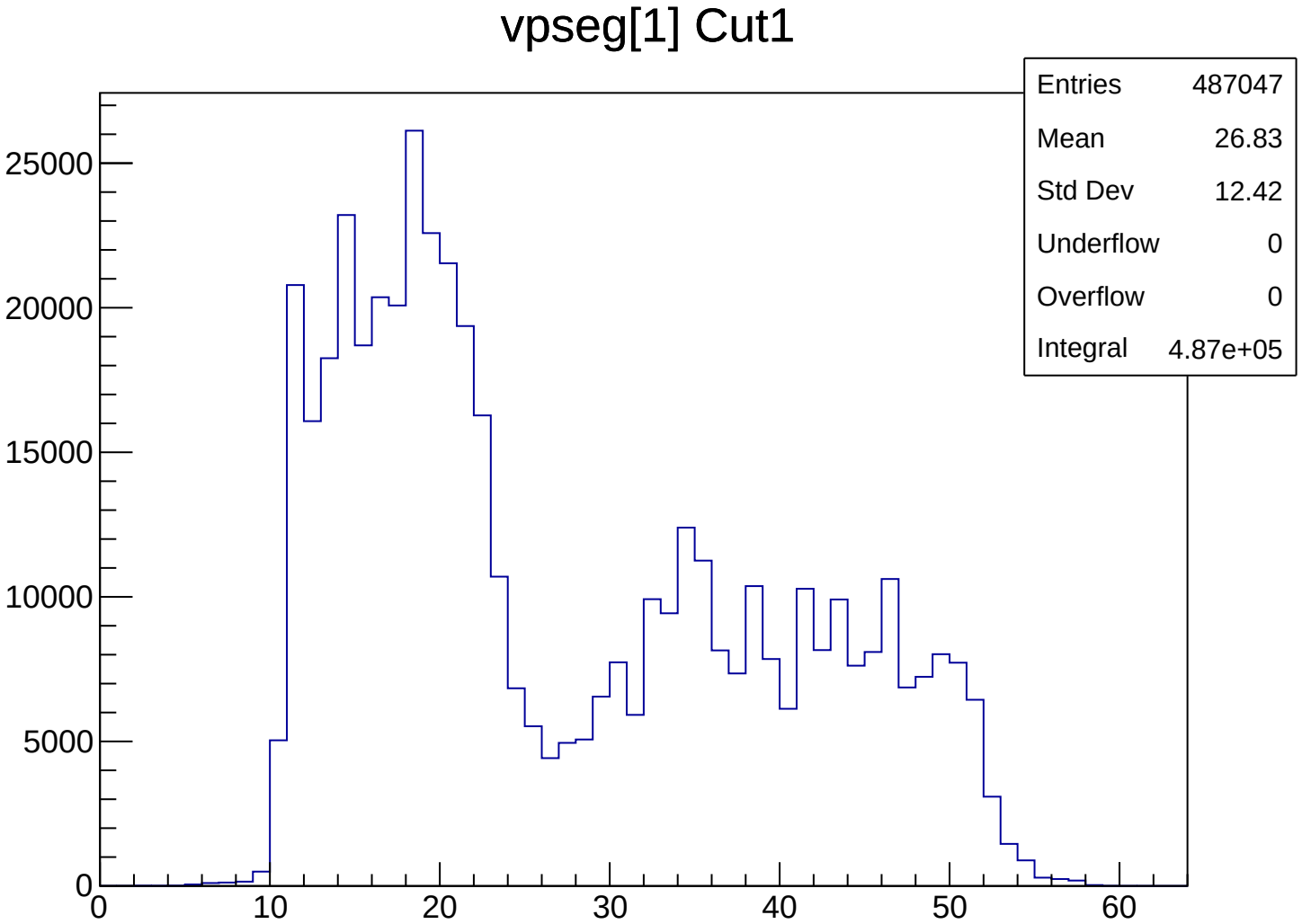

pKurama Cut1
Entries 487047
Mean 0.9032
Std Dev 0.2141
Underflow 0
Overflow 4883
Integral 4.822e+05
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

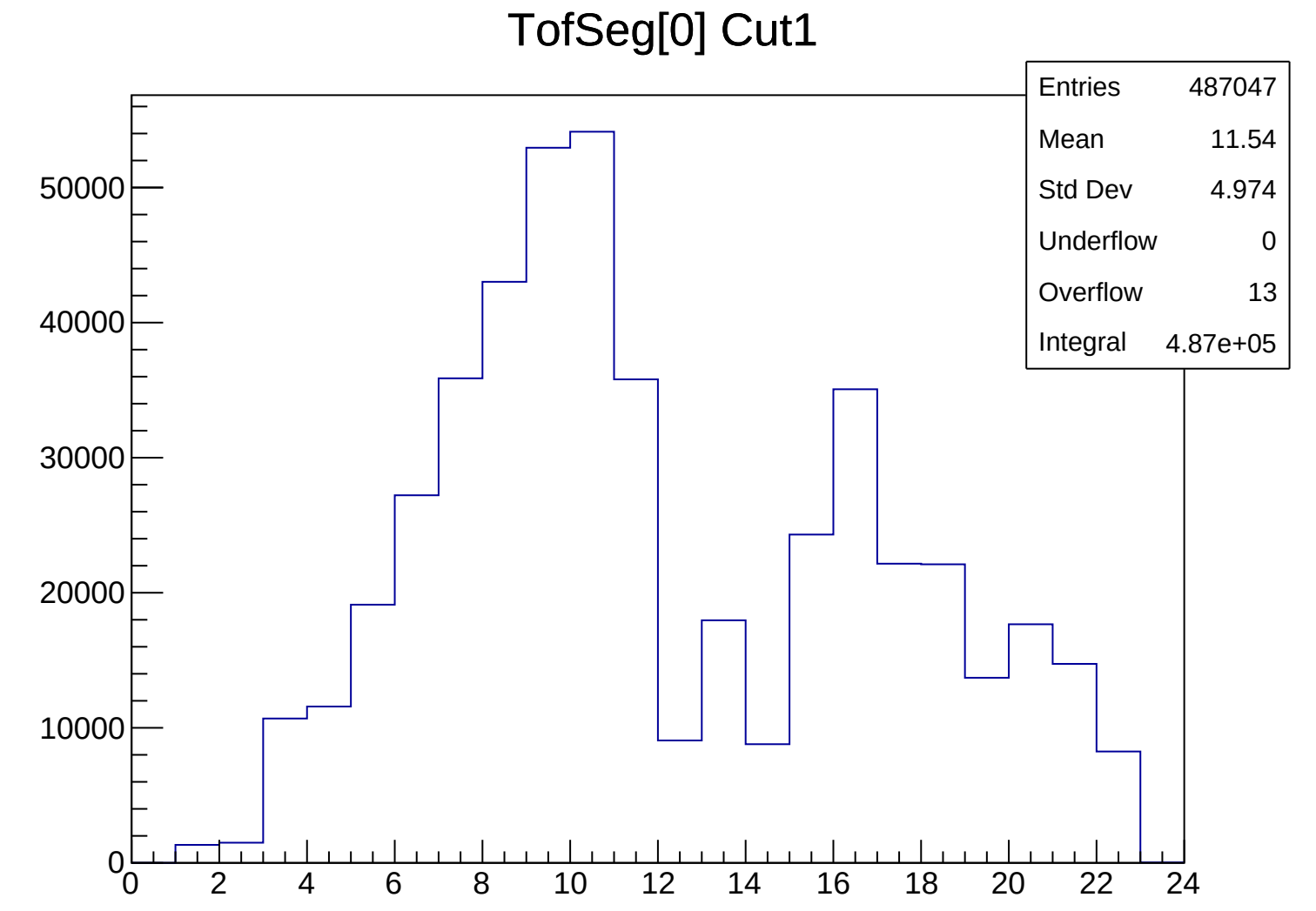

m2 Cut1
Entries 487047
Mean 0.5918
Std Dev 0.3517
Underflow 2.861e+04
Overflow 2.609e+04
Integral 4.323e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

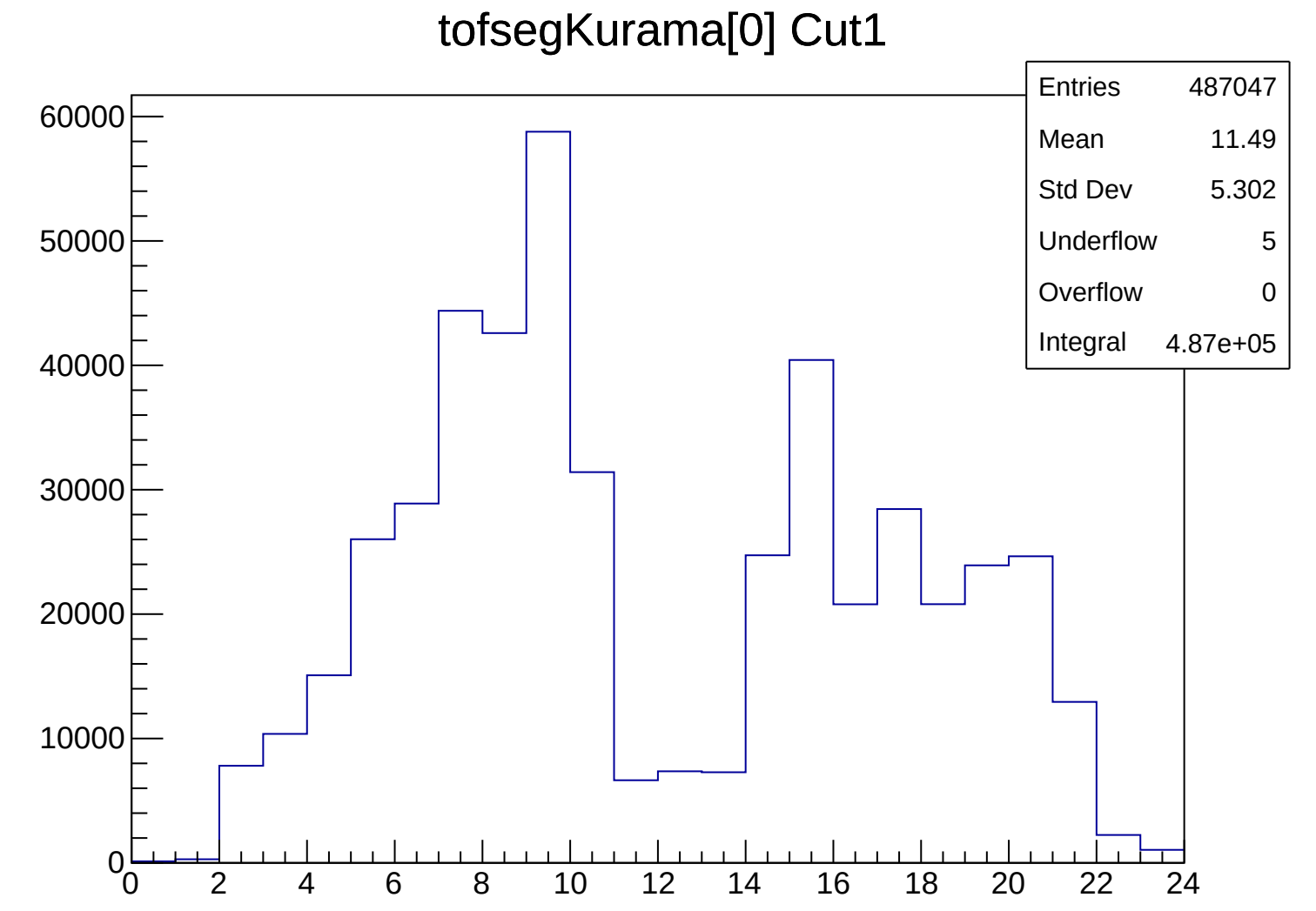

chisqrKurama Cut1
Entries 487047
Mean 20.07
Std Dev 32.38
Underflow 0
Overflow 5.758e+04
Integral 4.295e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
120
140
160
180
200

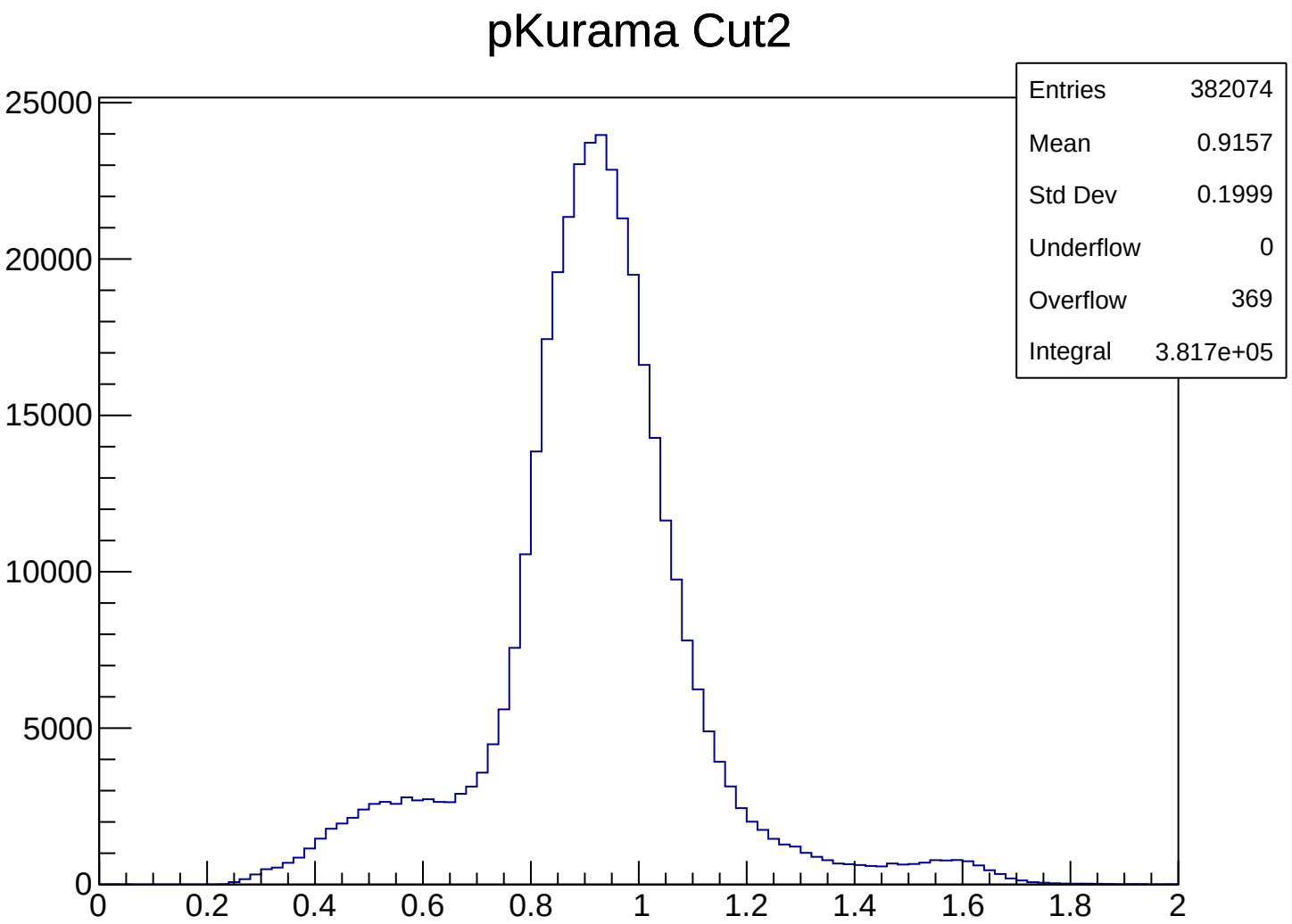

qKurama Cut1
×10^3
450
400
350
300
250
200
150
100
50
0
−3
−2
−1
0
1
2
3
Entries 487047
Mean 0.9386
Std Dev 0.3449
Underflow 0
Overflow 0
Integral 4.87e+05

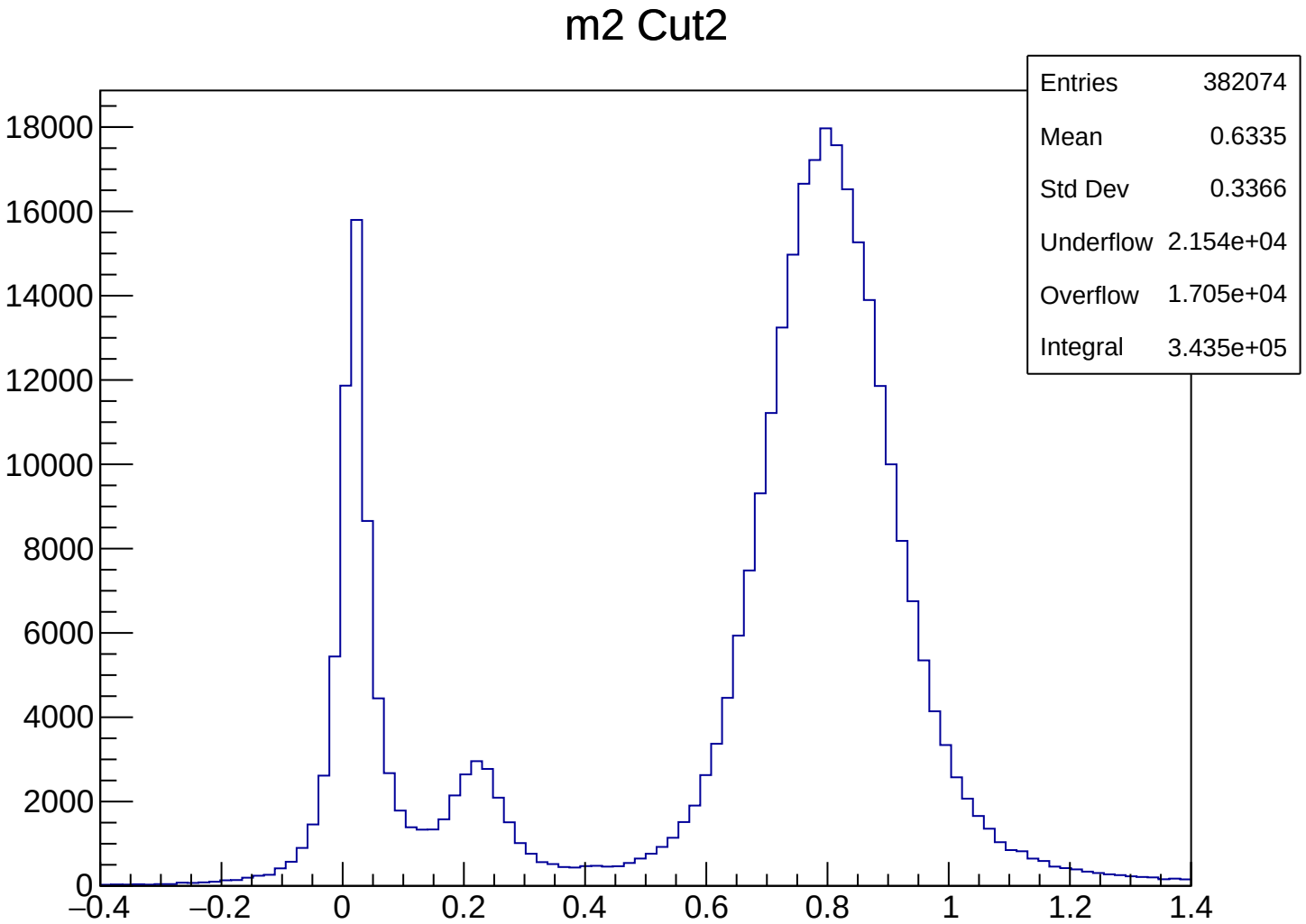

vpx[1] Cut1 2
Entries 487047
Mean –41.76
Std Dev 130.4
Underflow 0
Overflow 0
Integral 4.87e+05
12000
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

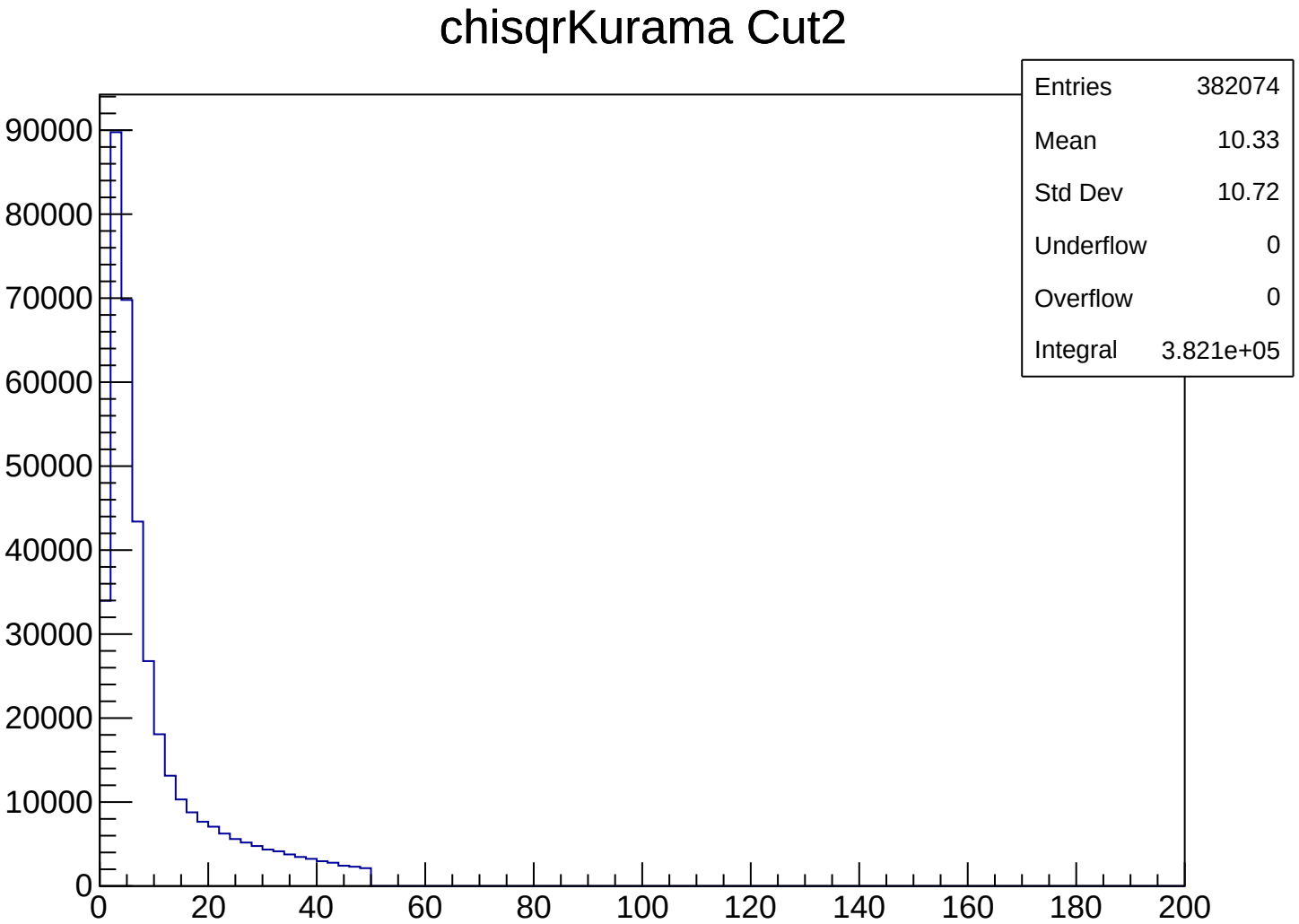

vpseg[1] Cut1
Entries 487047
Mean 26.83
Std Dev 12.42
Underflow 0
Overflow 0
Integral 4.87e+05
25000
20000
15000
10000
5000
0
0
10
20
30
40
50
60

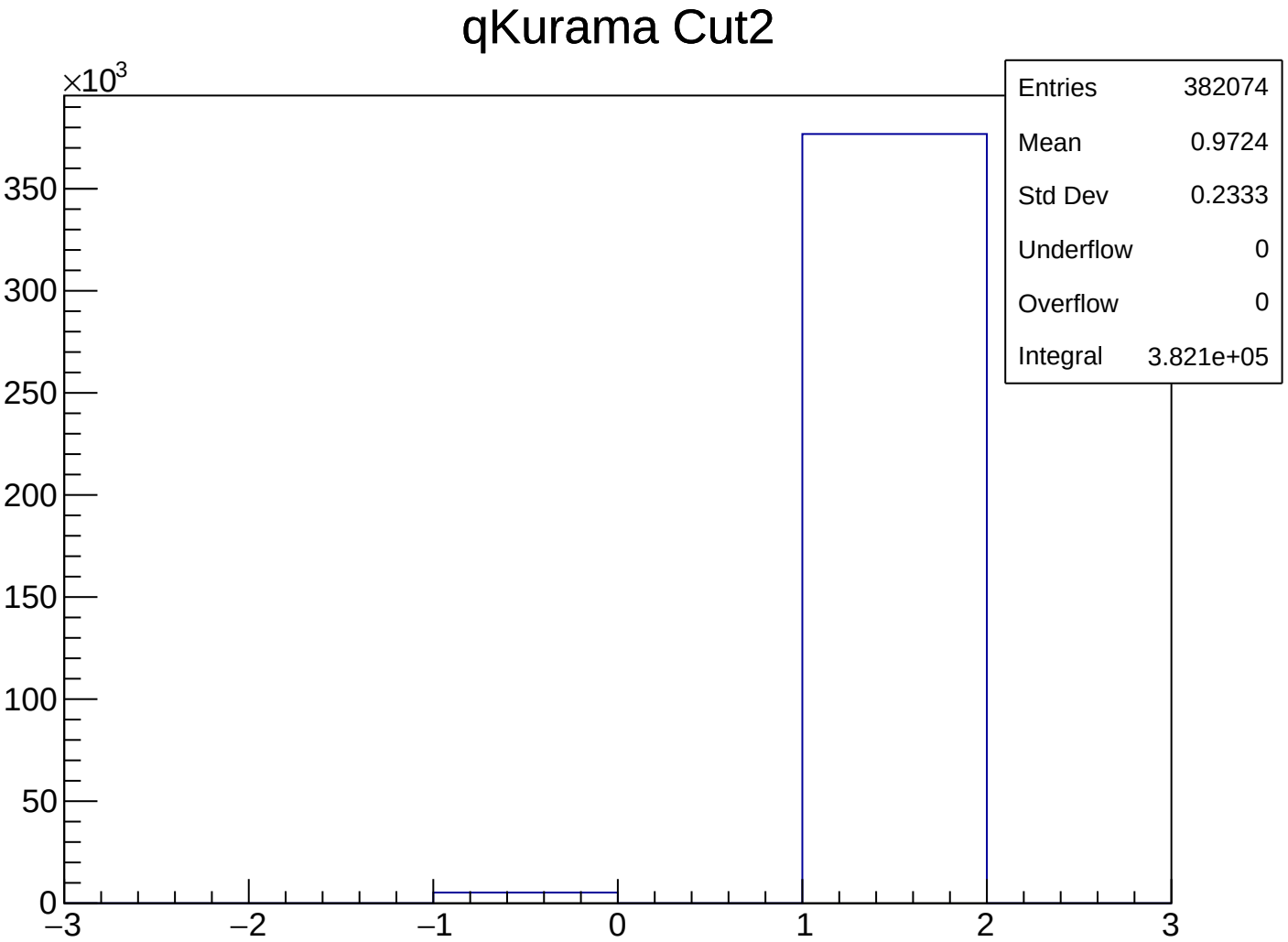

TofSeg[0] Cut1
Entries 487047
Mean 11.54
Std Dev 4.974
Underflow 0
Overflow 13
Integral 4.87e+05
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

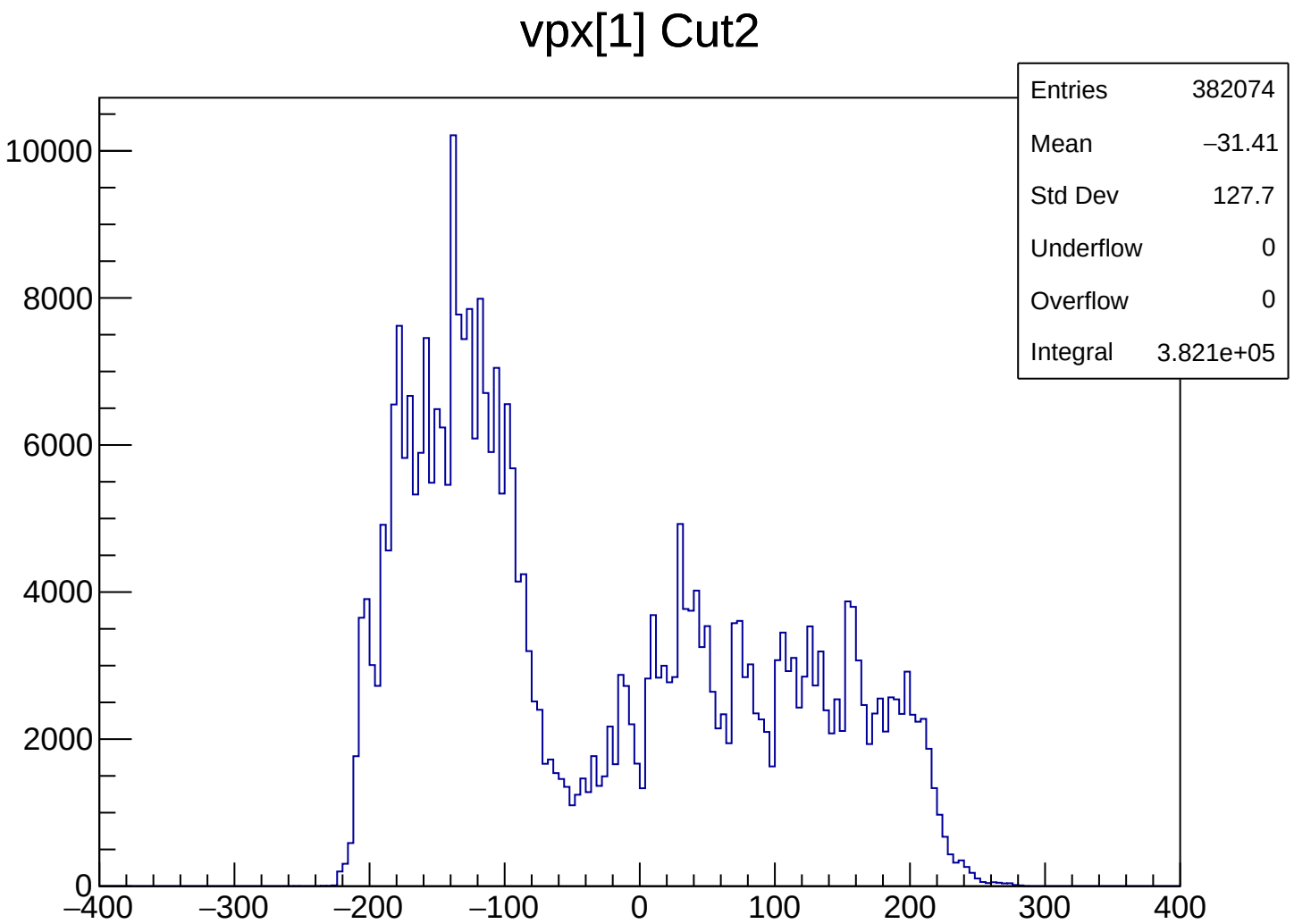

tofsegKurama[0] Cut1
Entries 487047
Mean 11.49
Std Dev 5.302
Underflow 5
Overflow 0
Integral 4.87e+05
60000
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

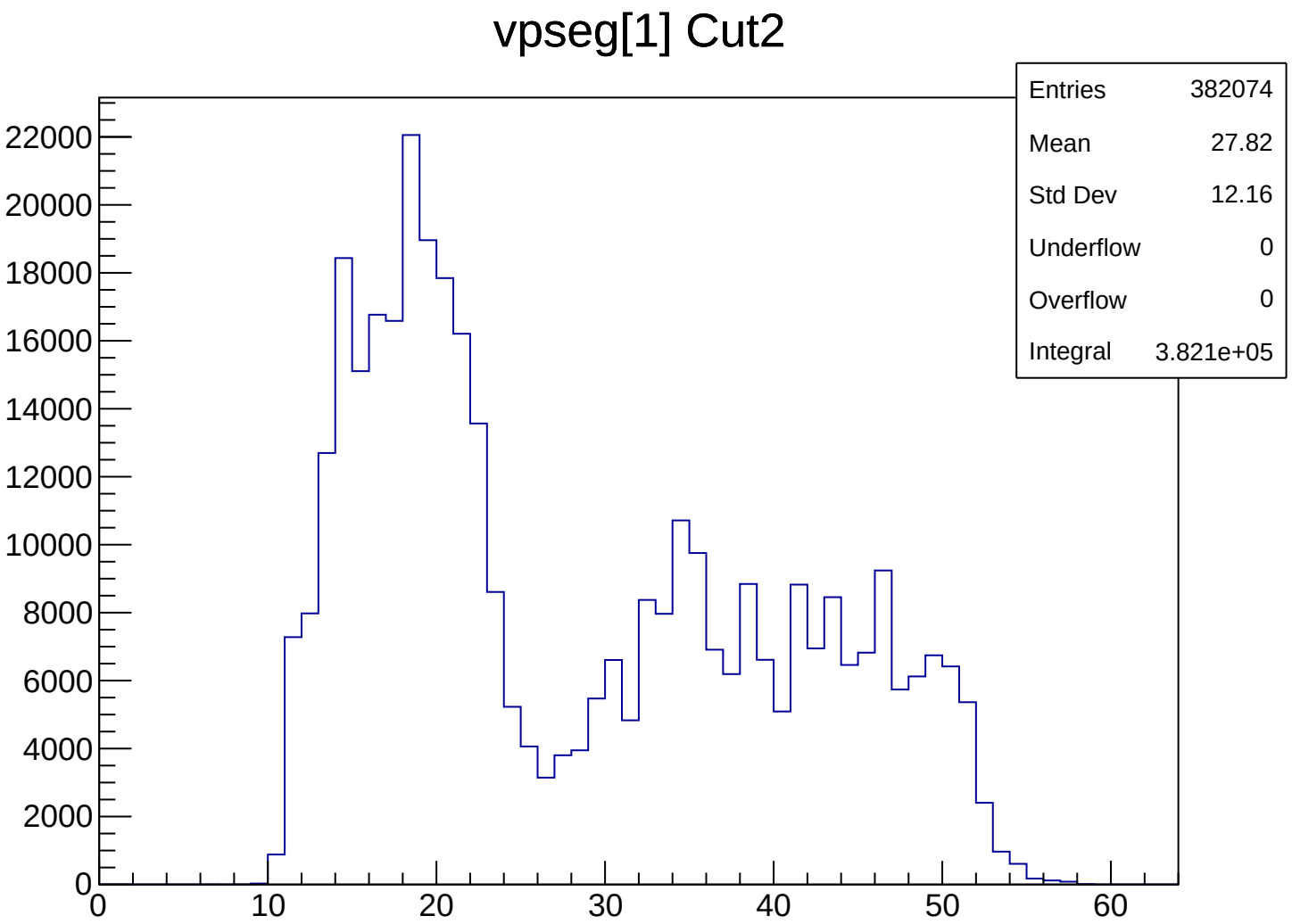

pKurama Cut2
Entries 382074
Mean 0.9157
Std Dev 0.1999
Underflow 0
Overflow 369
Integral 3.817e+05
25000
20000
15000
10000
5000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

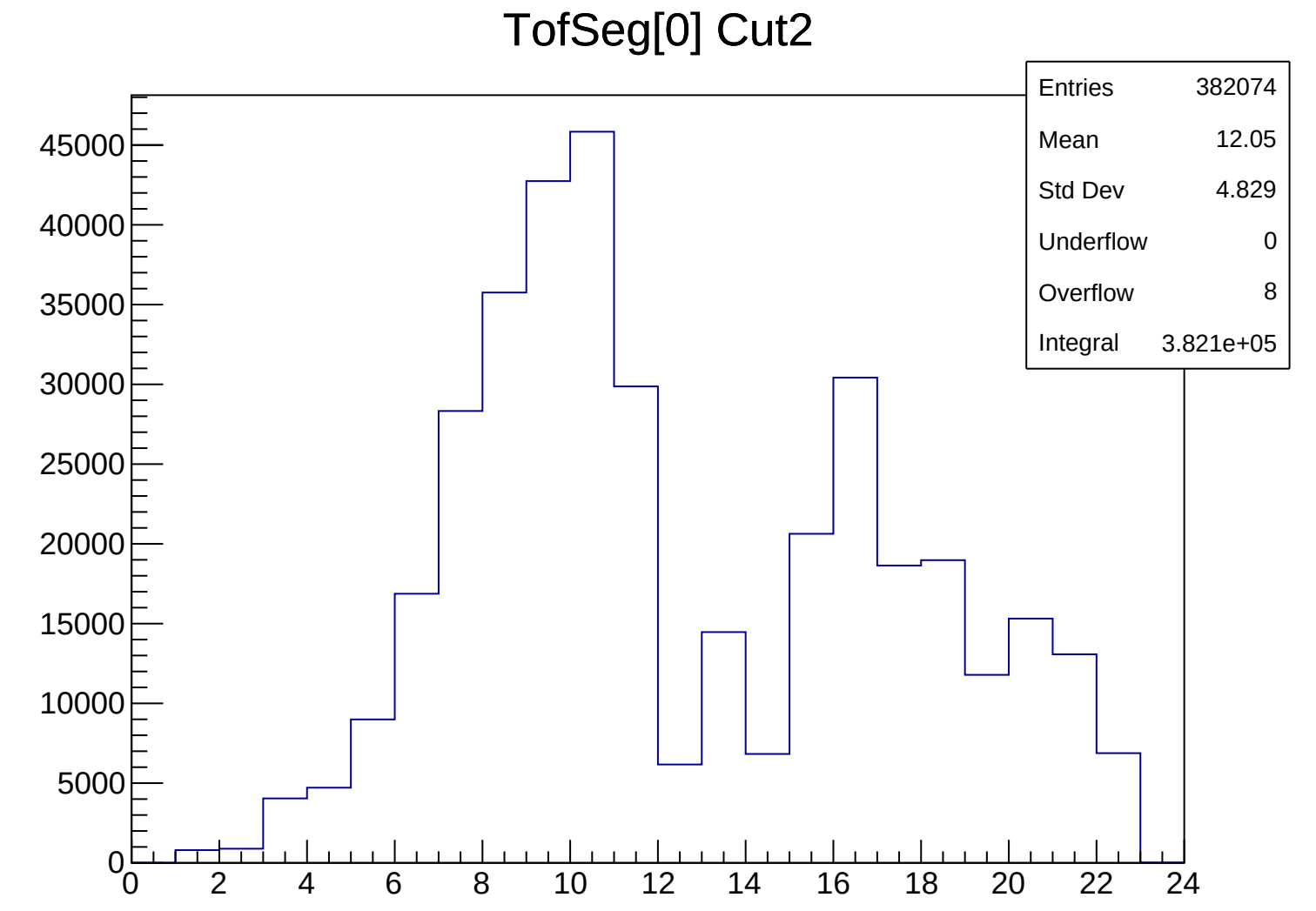

m2 Cut2
Entries 382074
Mean 0.6335
Std Dev 0.3366
Underflow 2.154e+04
Overflow 1.705e+04
Integral 3.435e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

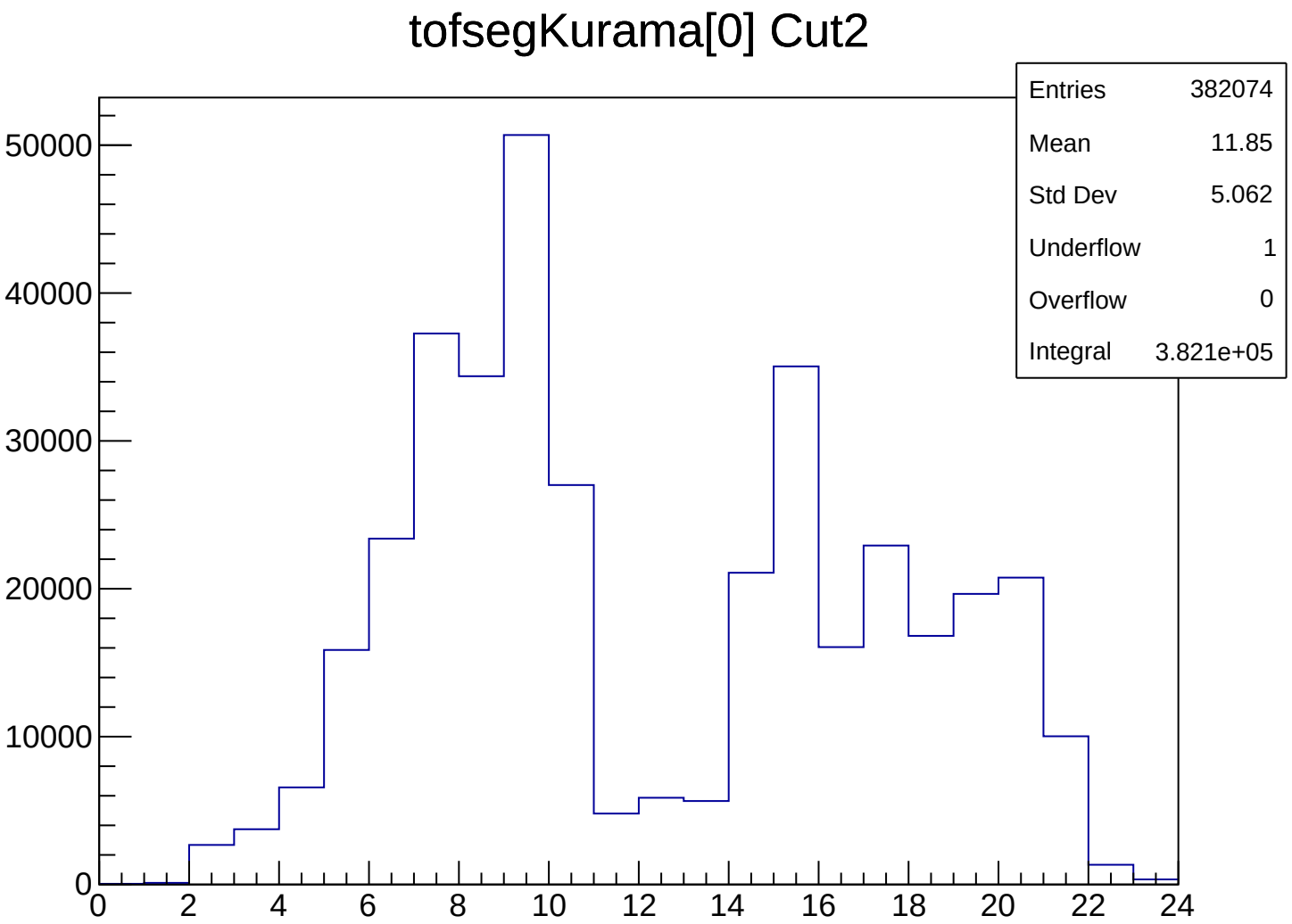

chisqrKurama Cut2
Entries 382074
Mean 10.33
Std Dev 10.72
Underflow 0
Overflow 0
Integral 3.821e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
120
140
160
180
200

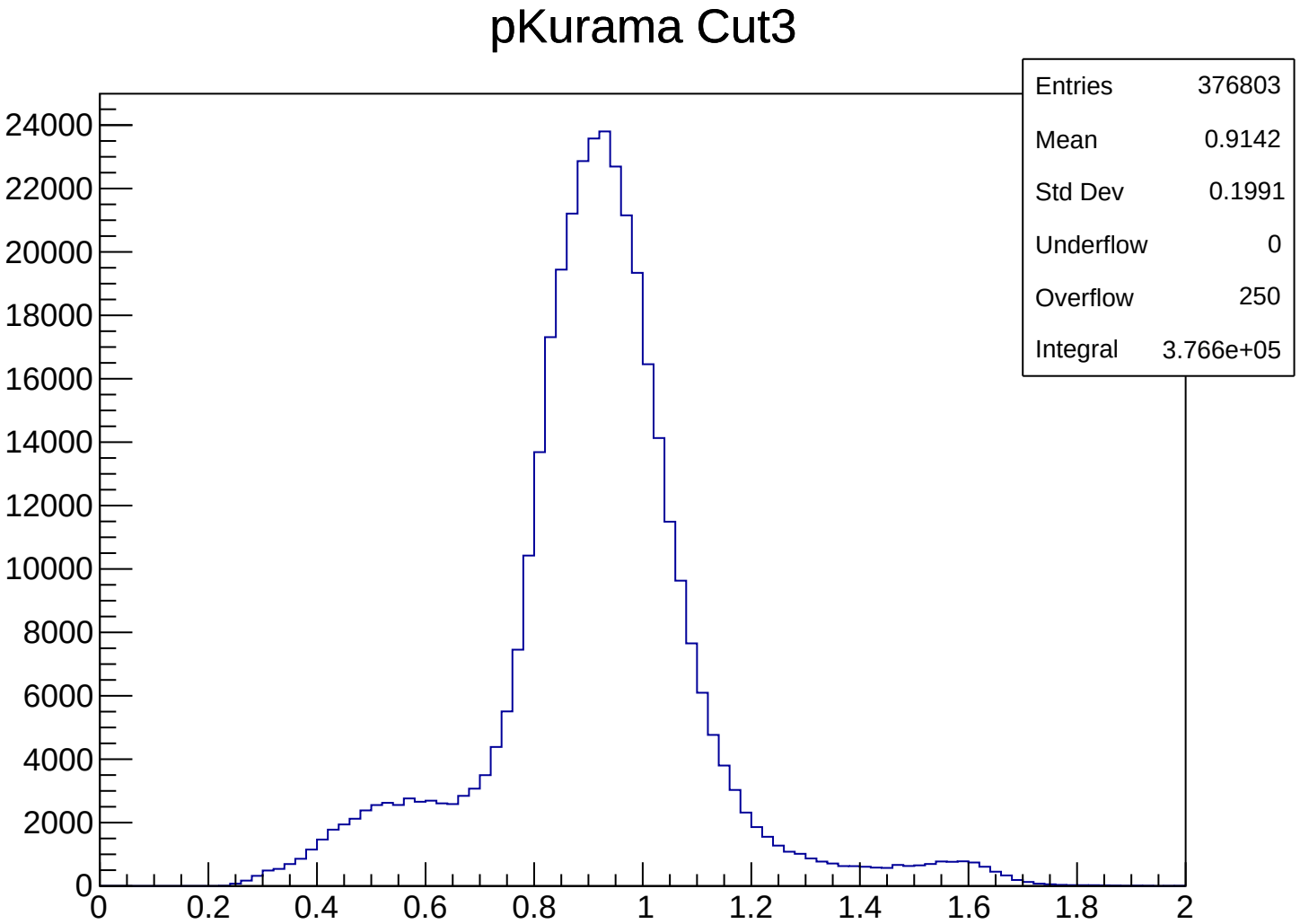

qKurama Cut2
×10^3
350
300
250
200
150
100
50
0
−3
−2
−1
0
1
2
3
Entries 382074
Mean 0.9724
Std Dev 0.2333
Underflow 0
Overflow 0
Integral 3.821e+05

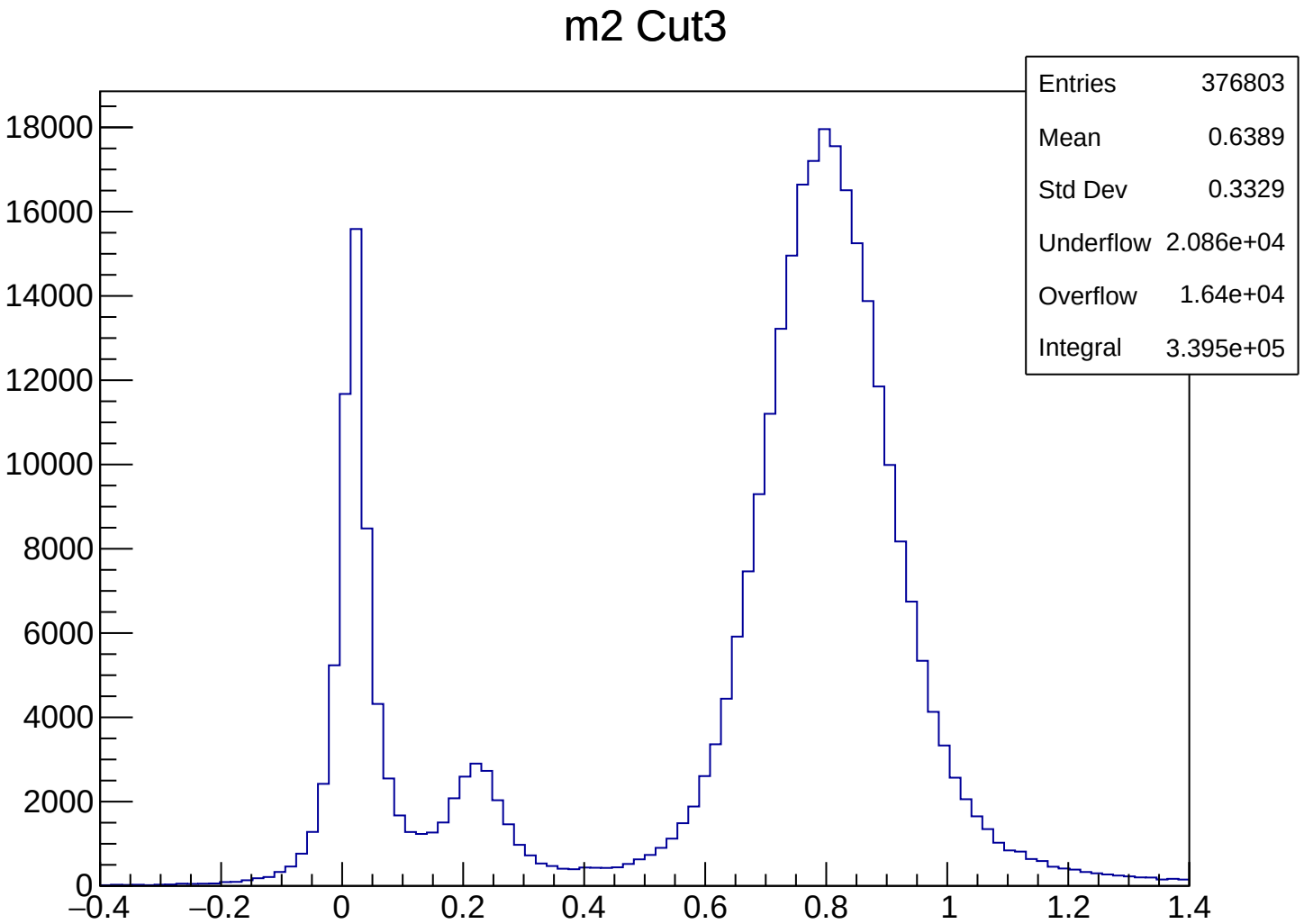

vpx[1] Cut2
Entries 382074
Mean –31.41
Std Dev 127.7
Underflow 0
Overflow 0
Integral 3.821e+05
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

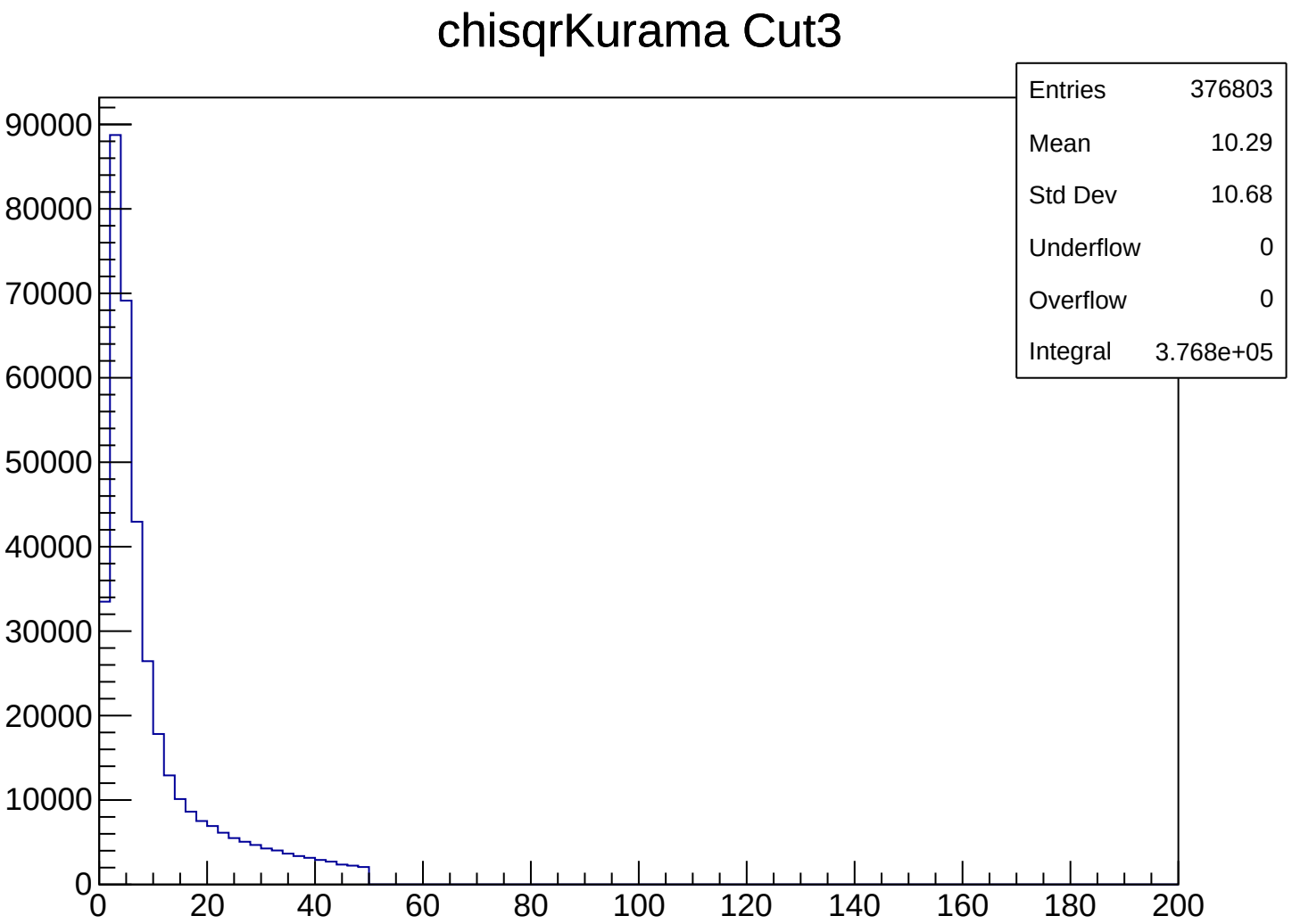

vpseg[1] Cut2
Entries 382074
Mean 27.82
Std Dev 12.16
Underflow 0
Overflow 0
Integral 3.821e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60


TofSeg[0] Cut2
Entries 382074
Mean 12.05
Std Dev 4.829
Underflow 0
Overflow 8
Integral 3.821e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

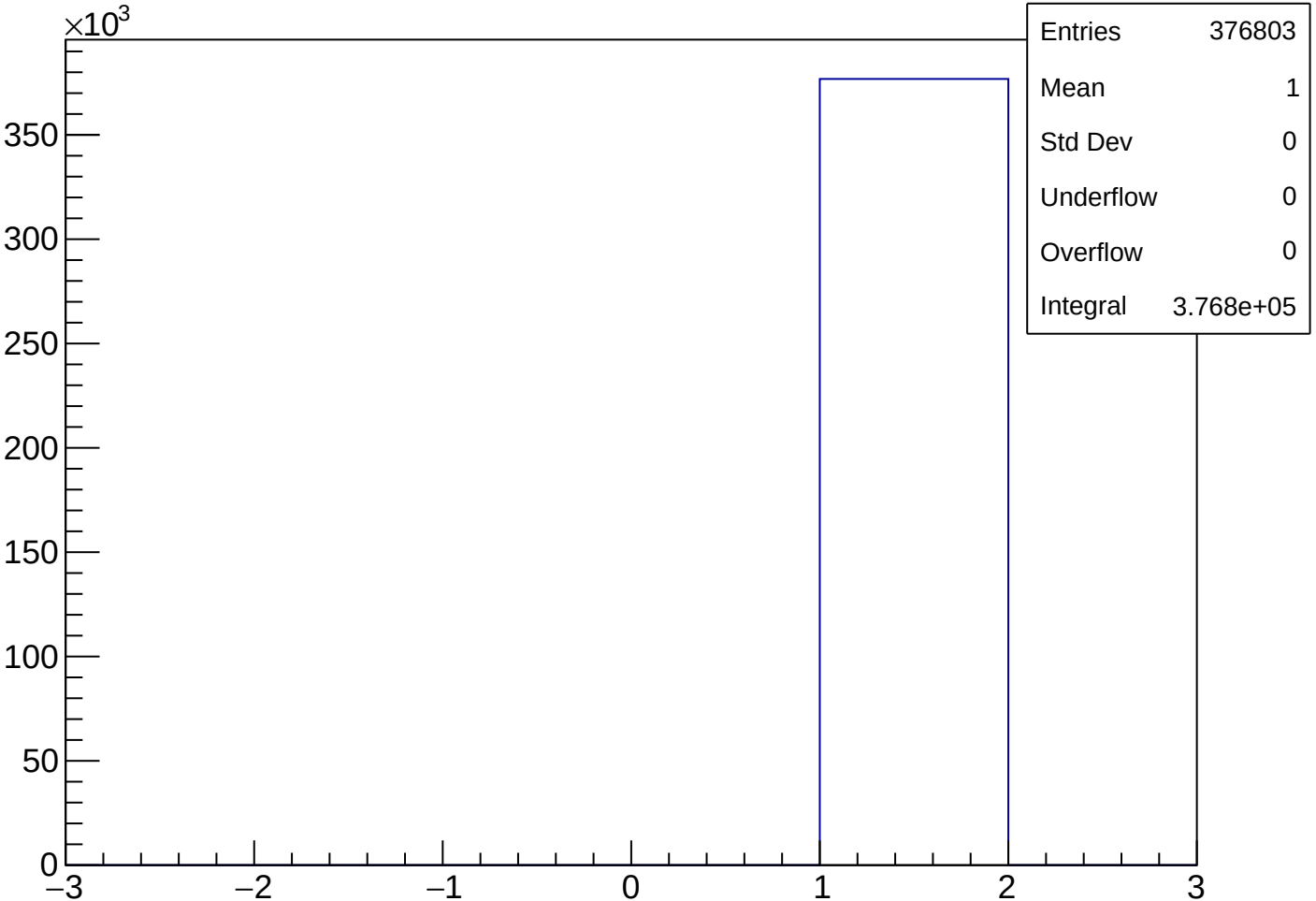

tofsegKurama[0] Cut2
Entries 382074
Mean 11.85
Std Dev 5.062
Underflow 1
Overflow 0
Integral 3.821e+05
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

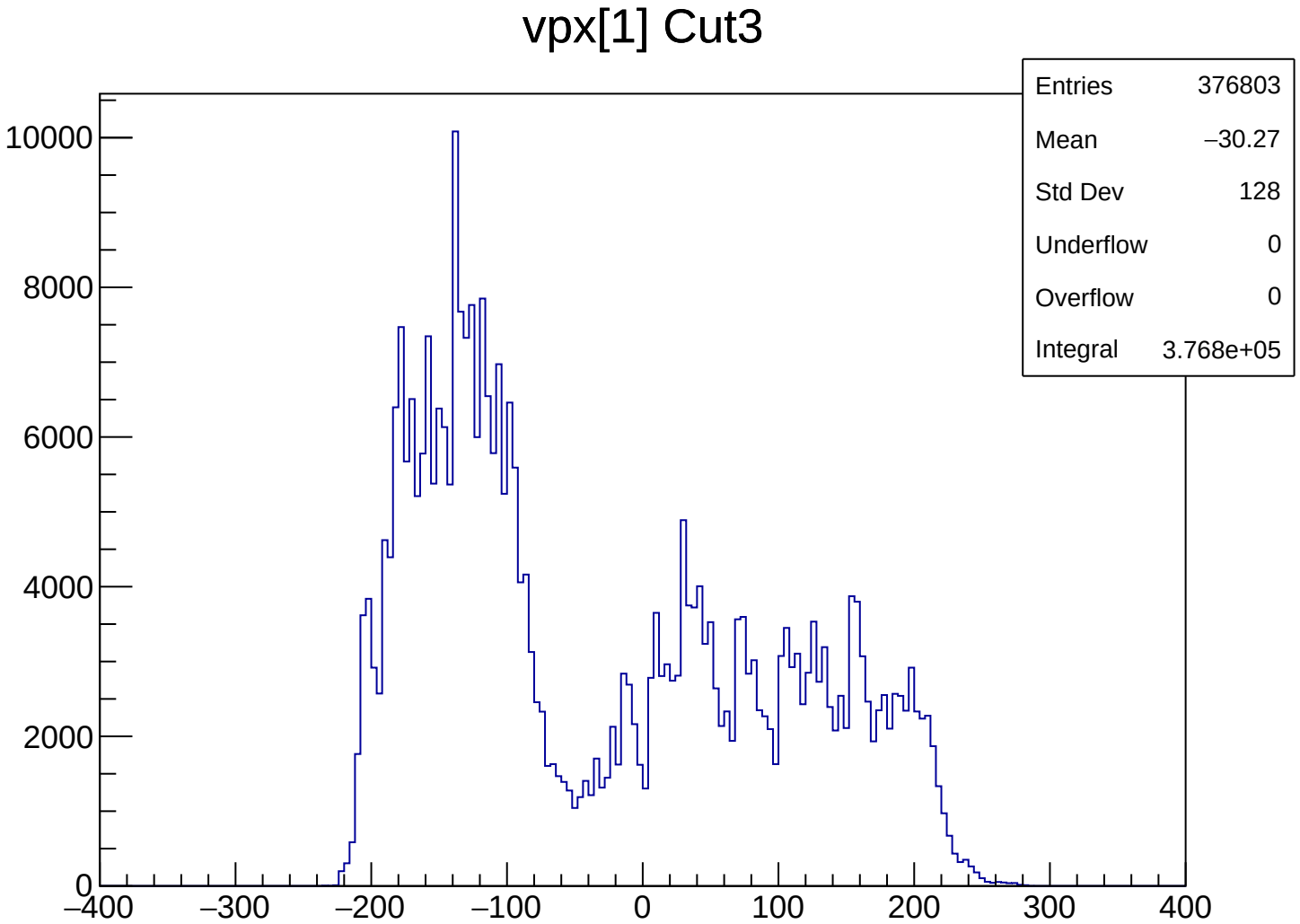

pKurama Cut3
Entries 376803
Mean 0.9142
Std Dev 0.1991
Underflow 0
Overflow 250
Integral 3.766e+05
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

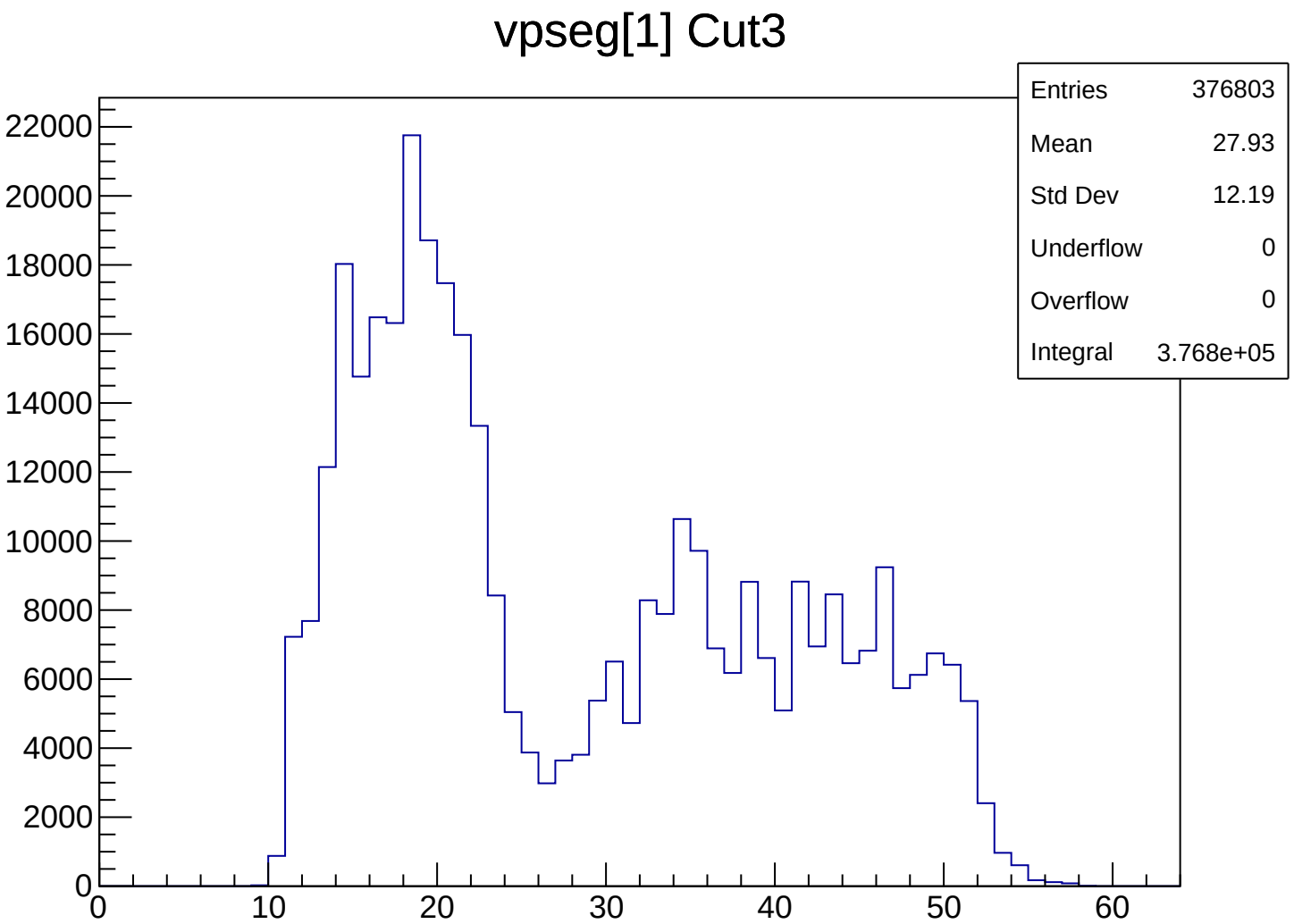

m2 Cut3
Entries 376803
Mean 0.6389
Std Dev 0.3329
Underflow 2.086e+04
Overflow 1.64e+04
Integral 3.395e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

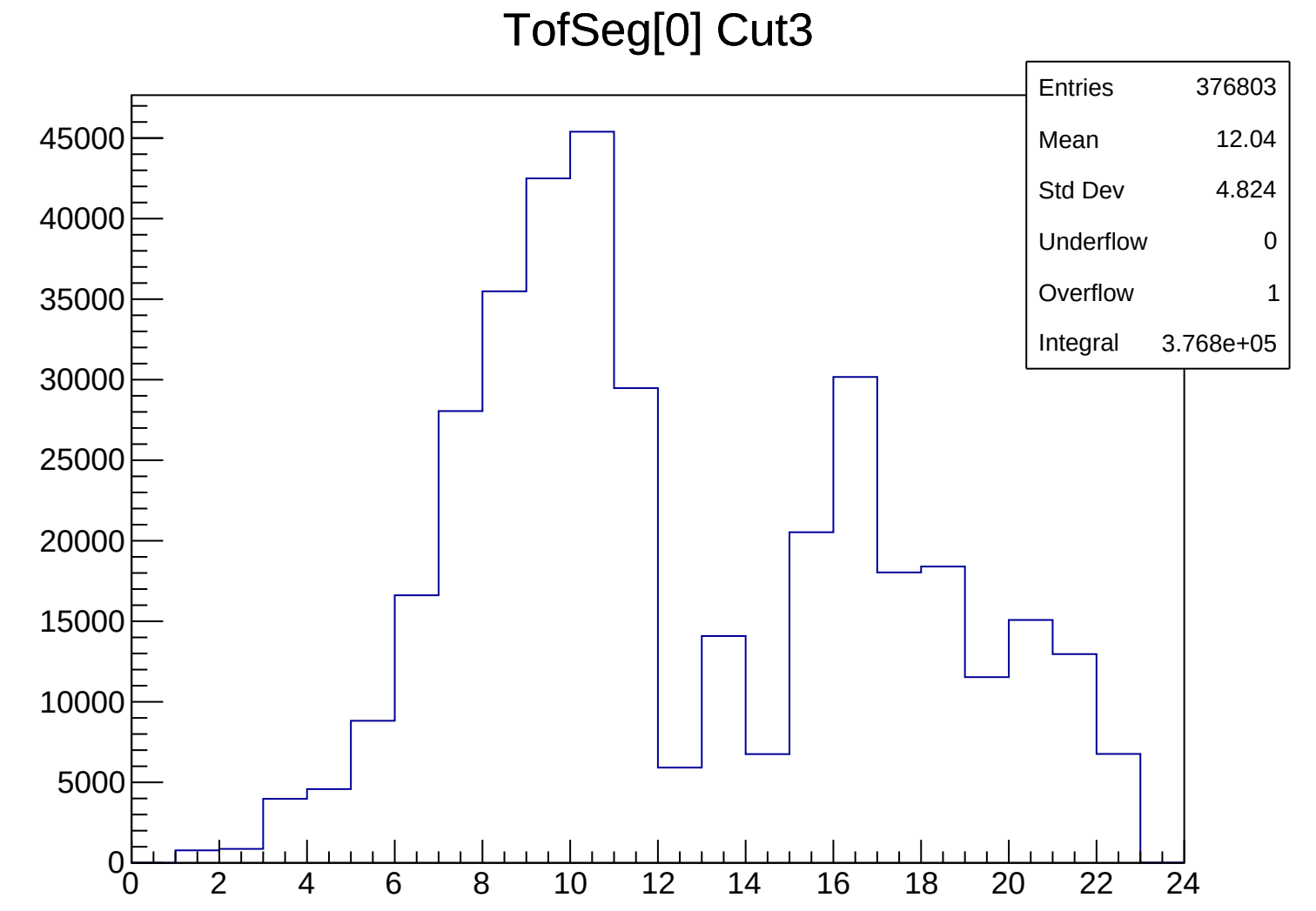

chisqrKurama Cut3
Entries 376803
Mean 10.29
Std Dev 10.68
Underflow 0
Overflow 0
Integral 3.768e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
20
40
60
80
100
120
140
160
180
200

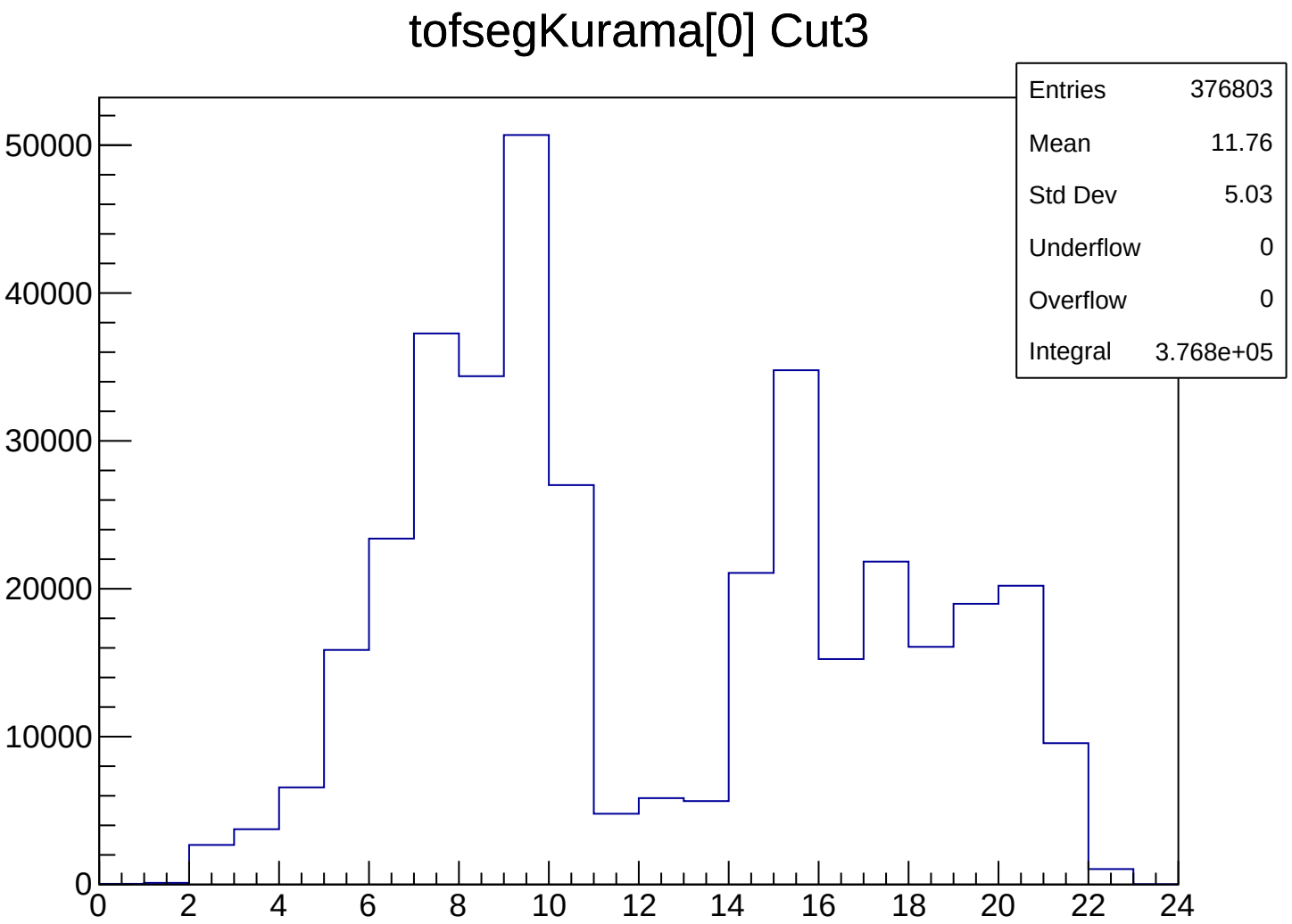
qKurama Cut3

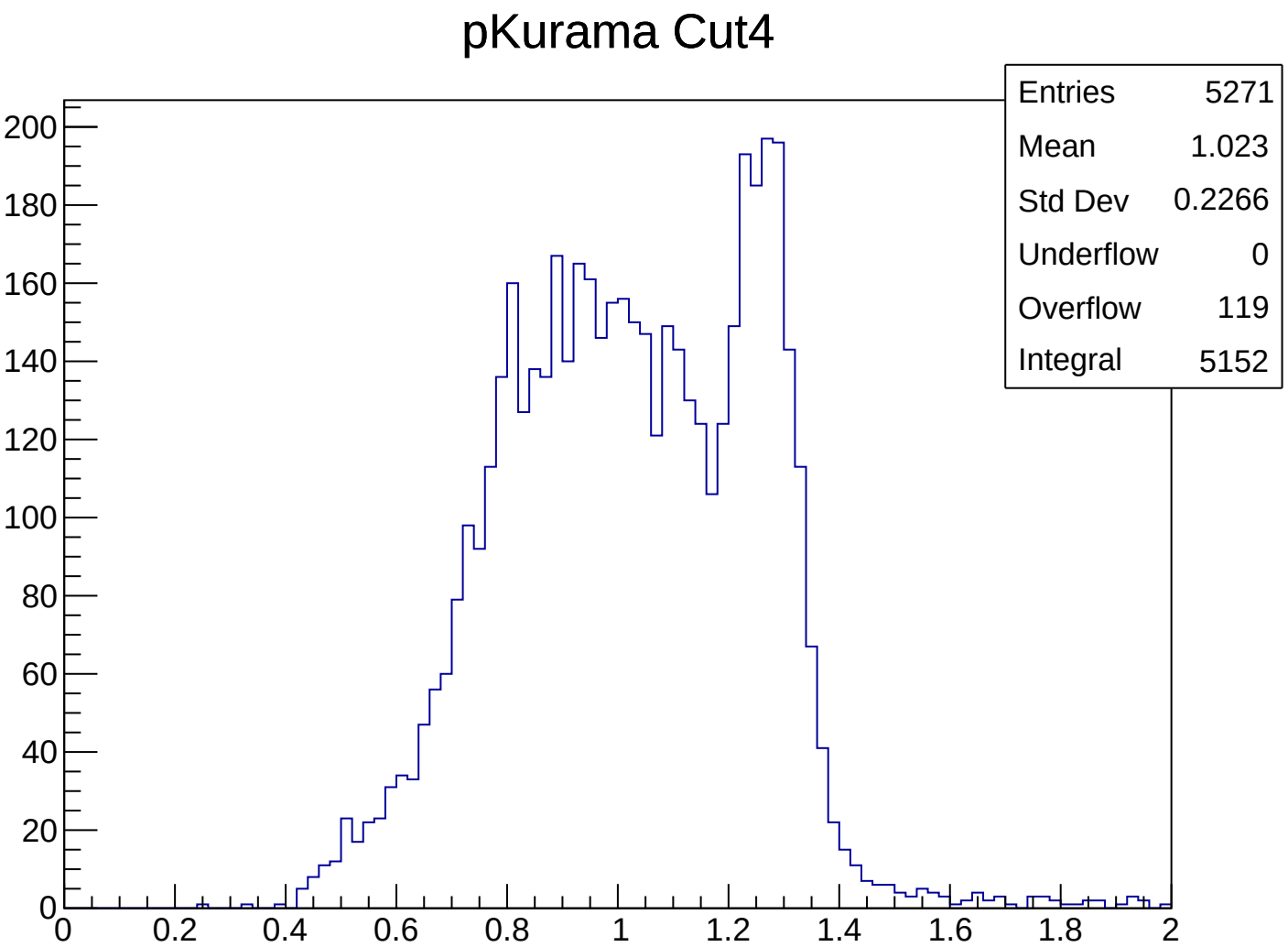


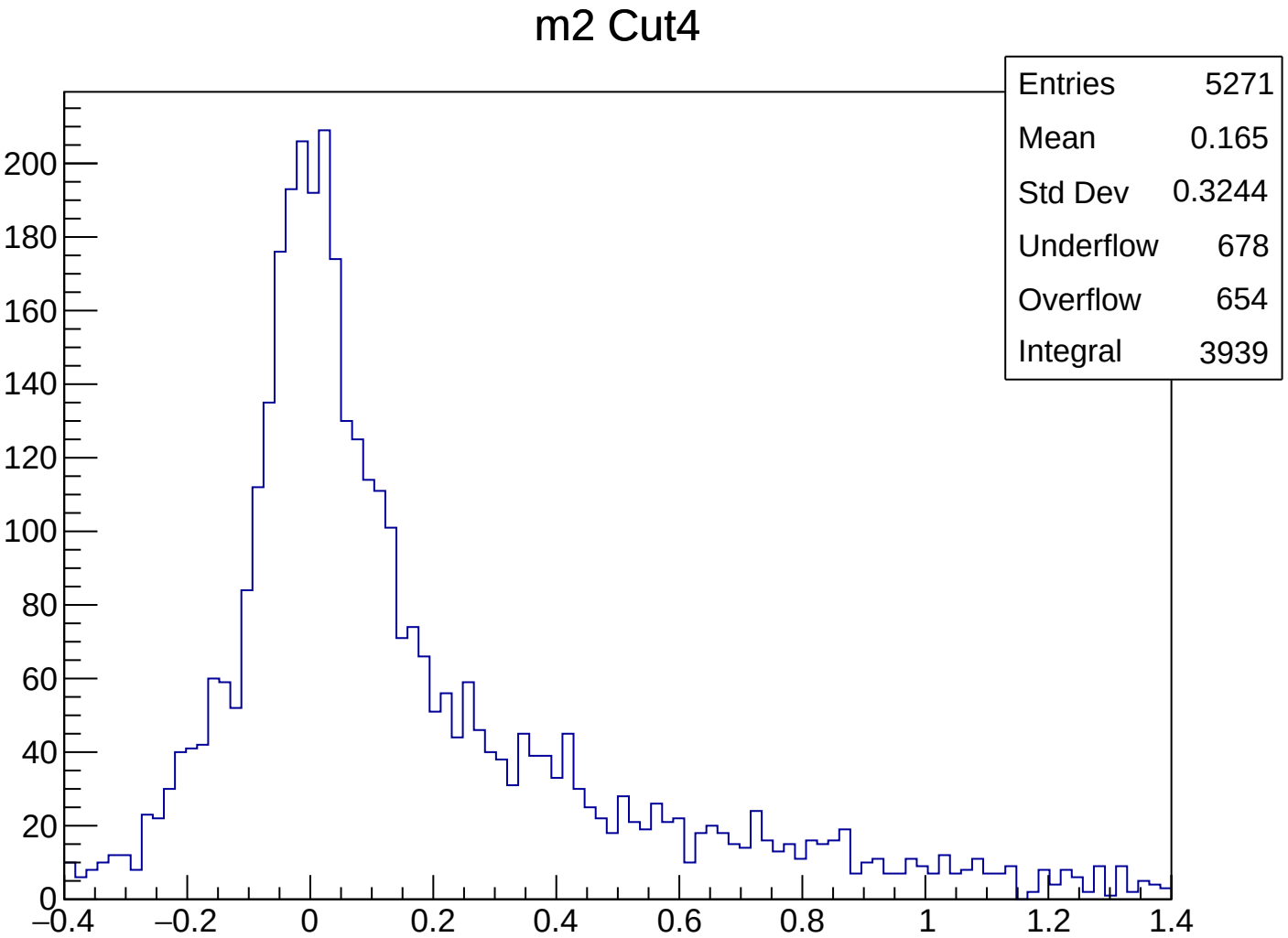

vpx[1] Cut3
Entries 376803
Mean –30.27
Std Dev 128
Underflow 0
Overflow 0
Integral 3.768e+05
10000
8000
6000
4000
2000
0
–400
–300
–200
–100
0
100
200
300
400

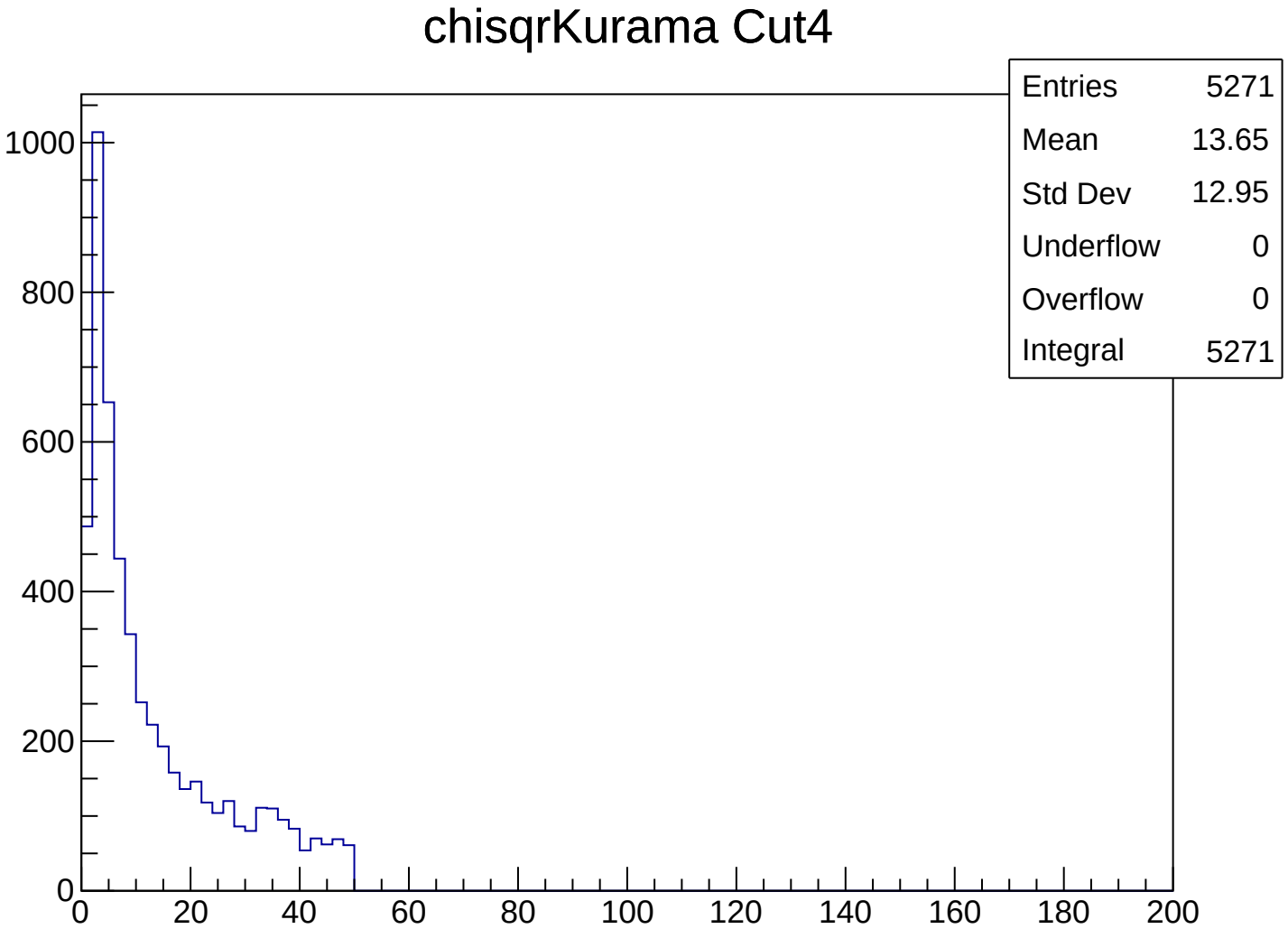

vpseg[1] Cut3
Entries 376803
Mean 27.93
Std Dev 12.19
Underflow 0
Overflow 0
Integral 3.768e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60

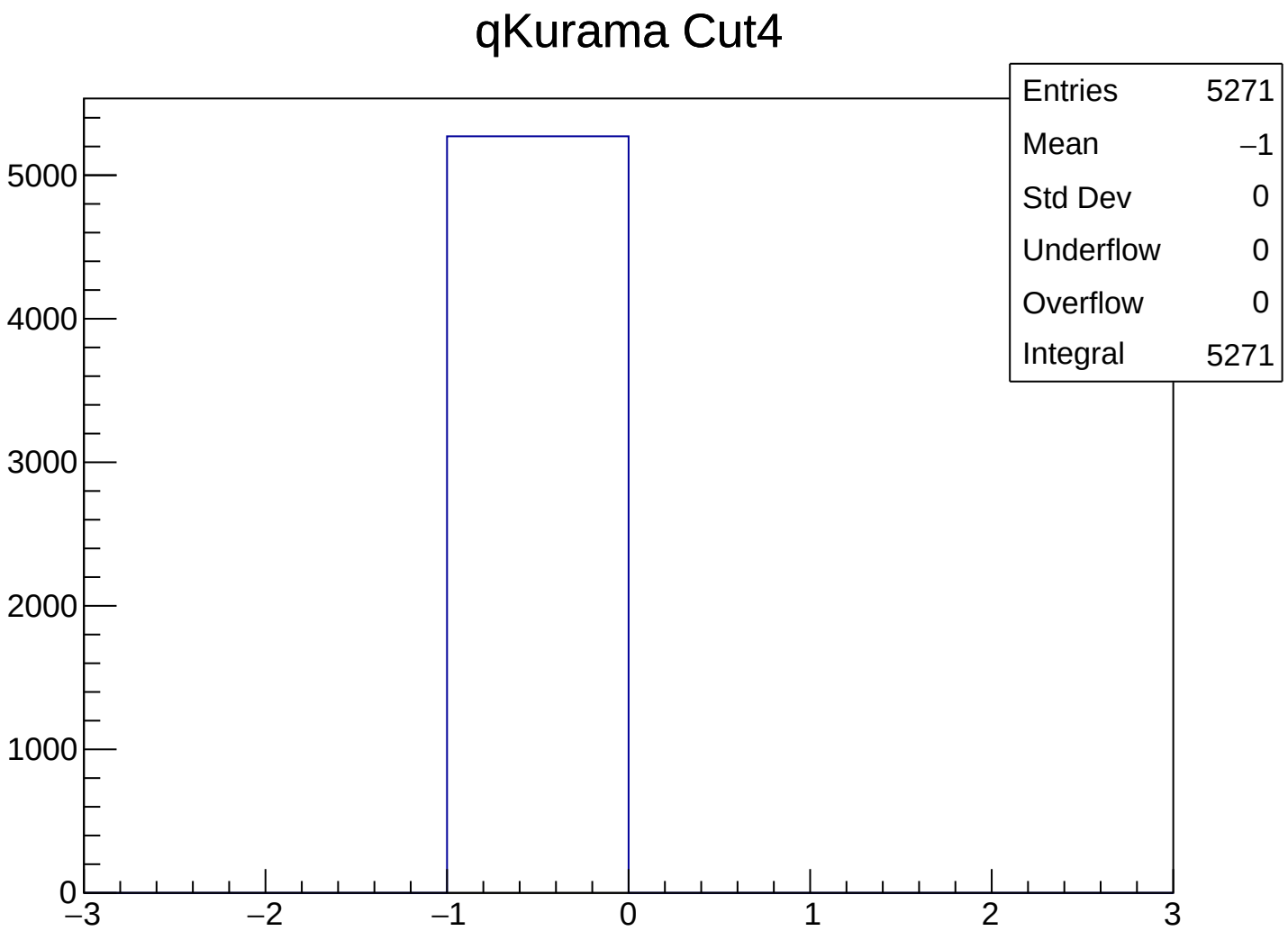

TofSeg[0] Cut3
Entries 376803
Mean 12.04
Std Dev 4.824
Underflow 0
Overflow 1
Integral 3.768e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

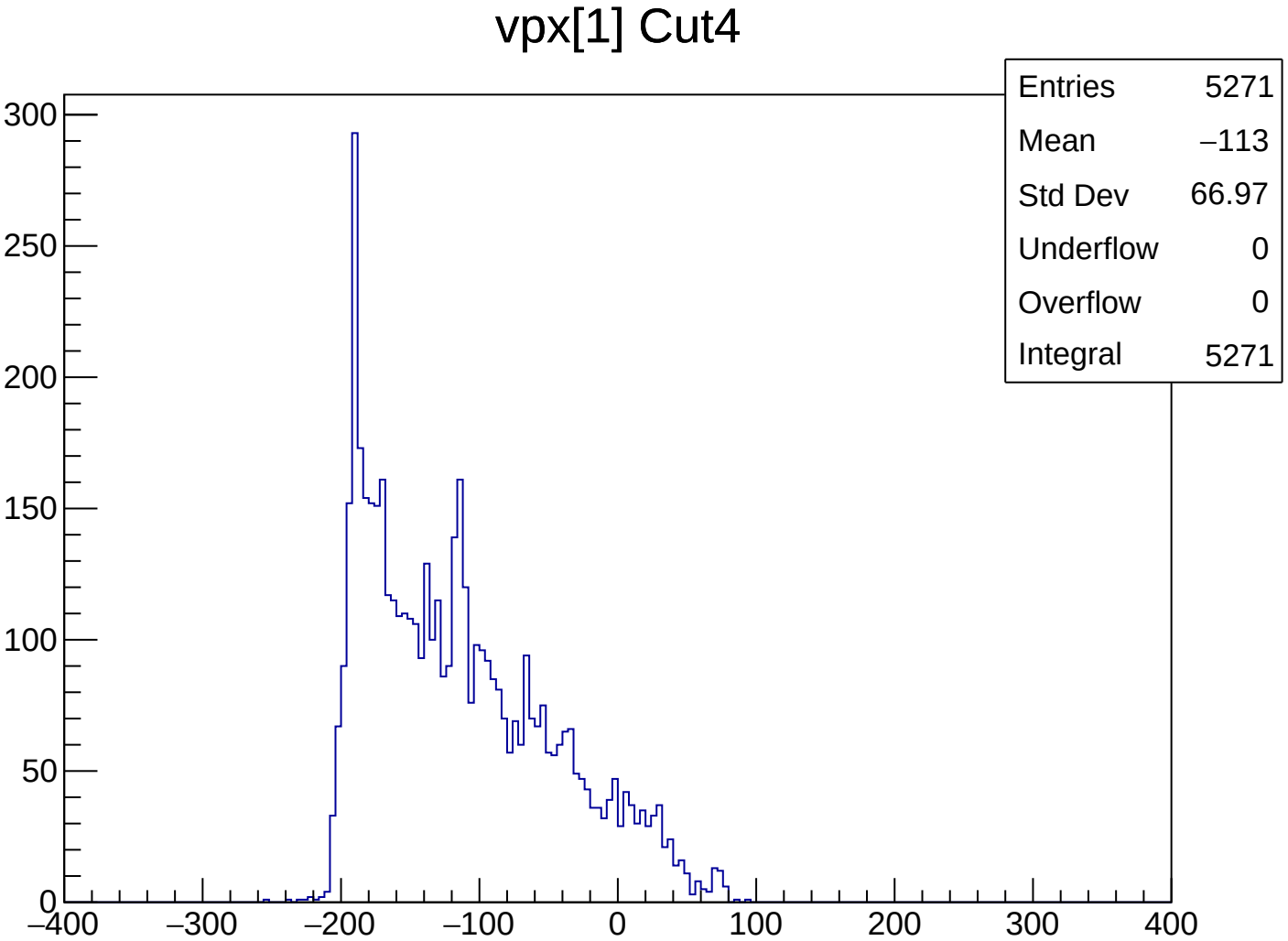

tofsegKurama[0] Cut3
Entries 376803
Mean 11.76
Std Dev 5.03
Underflow 0
Overflow 0
Integral 3.768e+05
50000
40000
30000
20000
10000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

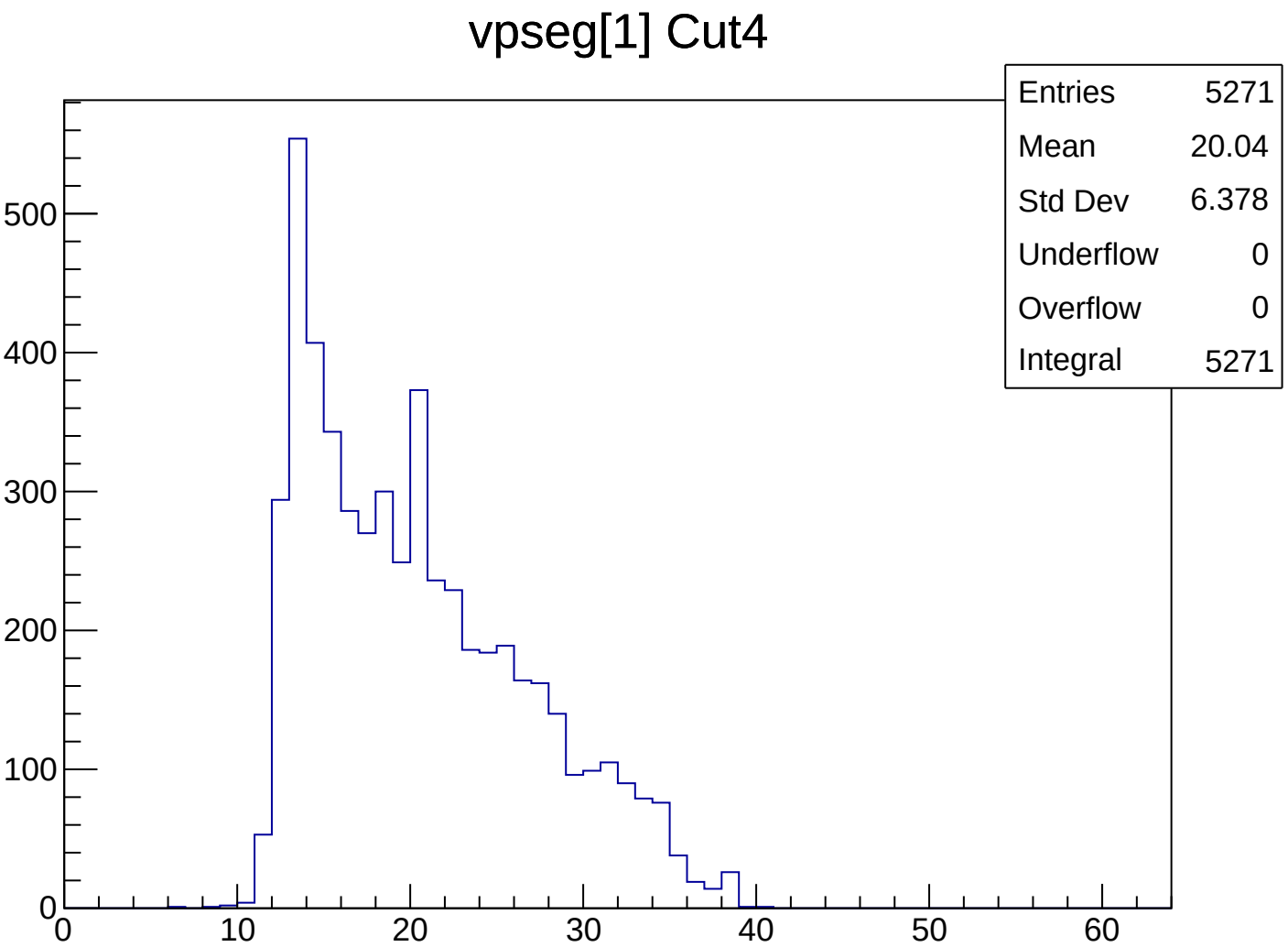

pKurama Cut4
Entries 5271
Mean 1.023
Std Dev 0.2266
Underflow 0
Overflow 119
Integral 5152
0
20
40
60
80
100
120
140
160
180
200
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

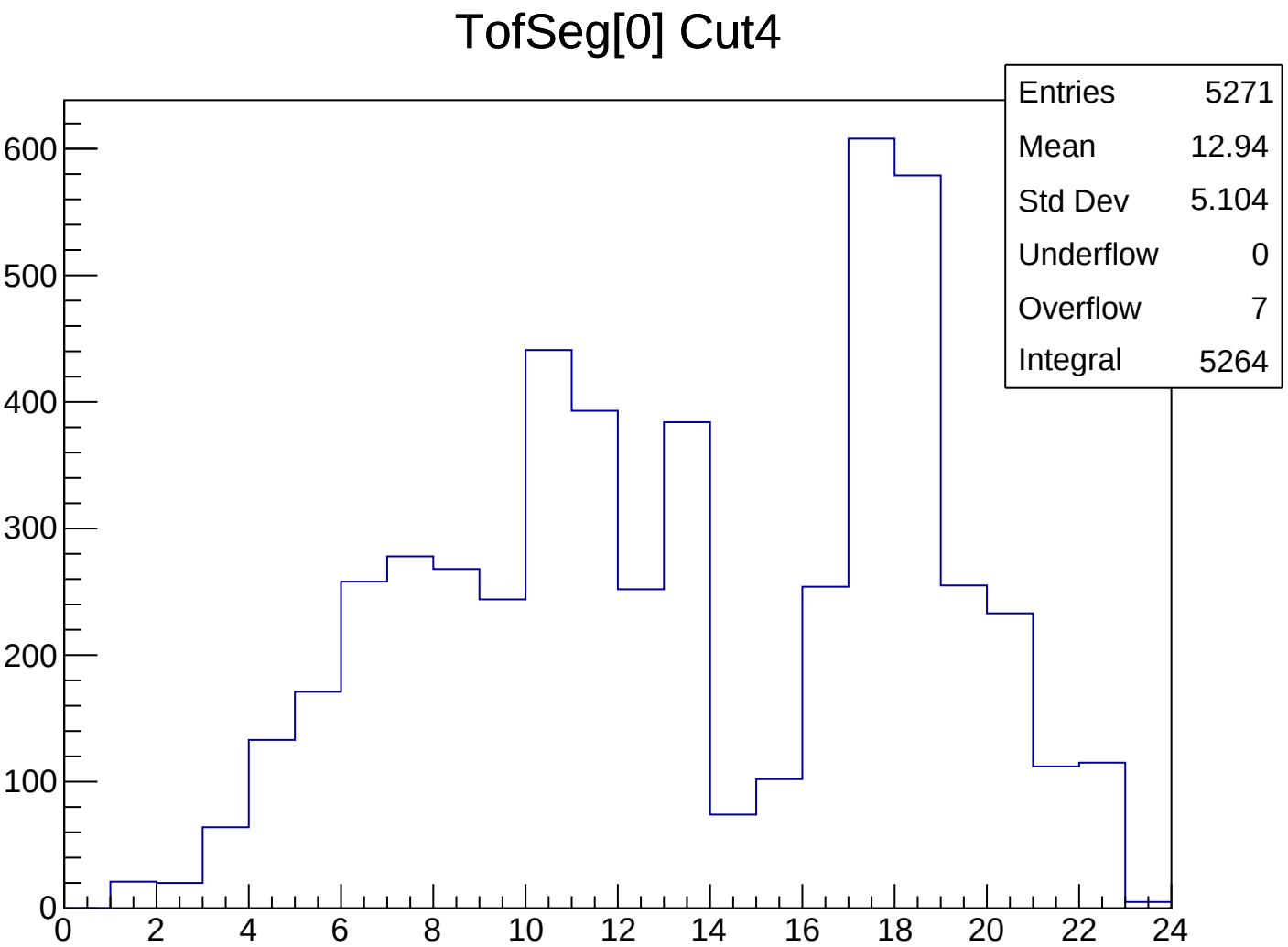

m2 Cut4
Entries 5271
Mean 0.165
Std Dev 0.3244
Underflow 678
Overflow 654
Integral 3939
0
20
40
60
80
100
120
140
160
180
200
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

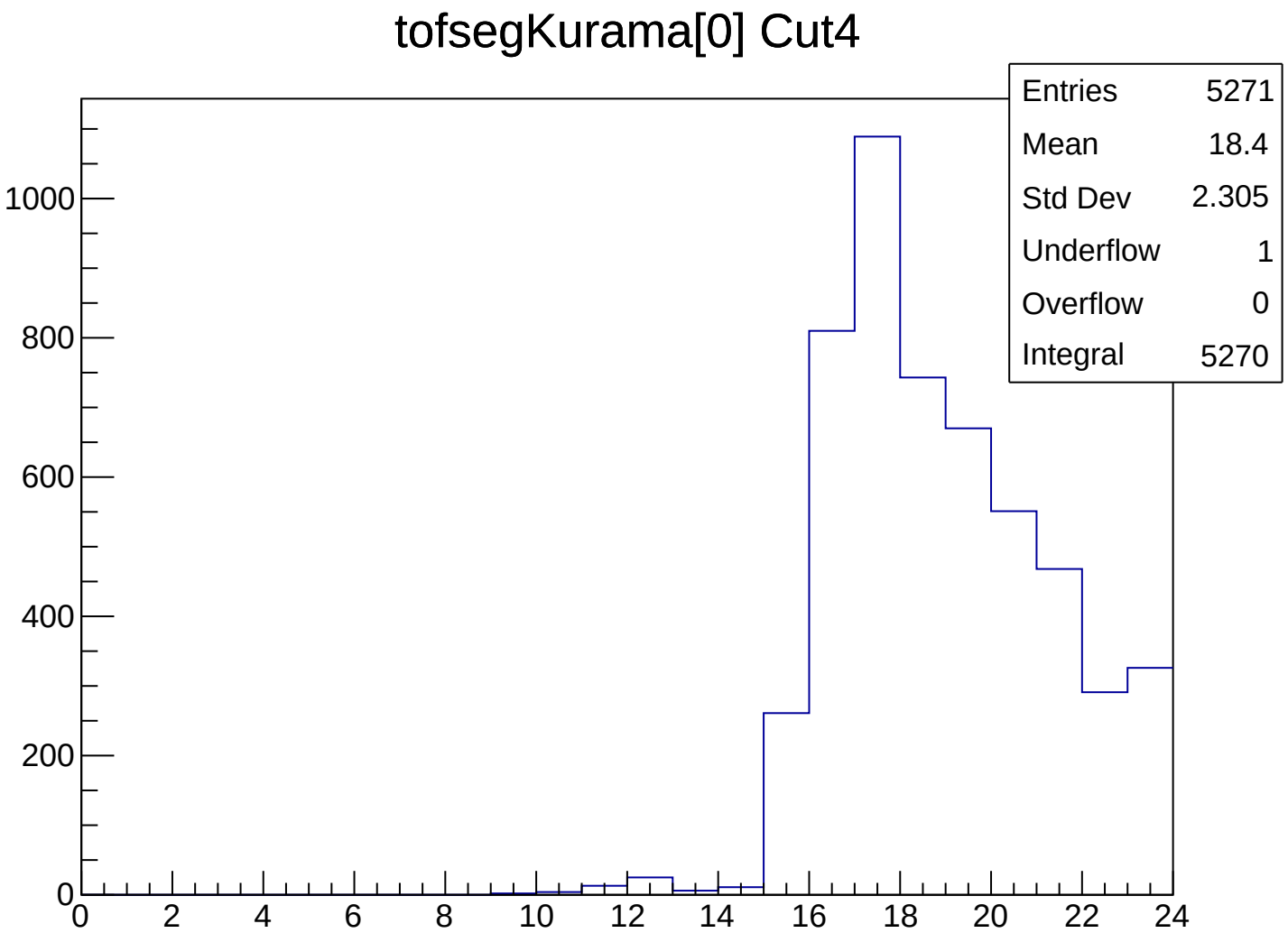

chisqrKurama Cut4
Entries 5271
Mean 13.65
Std Dev 12.95
Underflow 0
Overflow 0
Integral 5271
0
200
400
600
800
1000
0
20
40
60
80
100
120
140
160
180
200

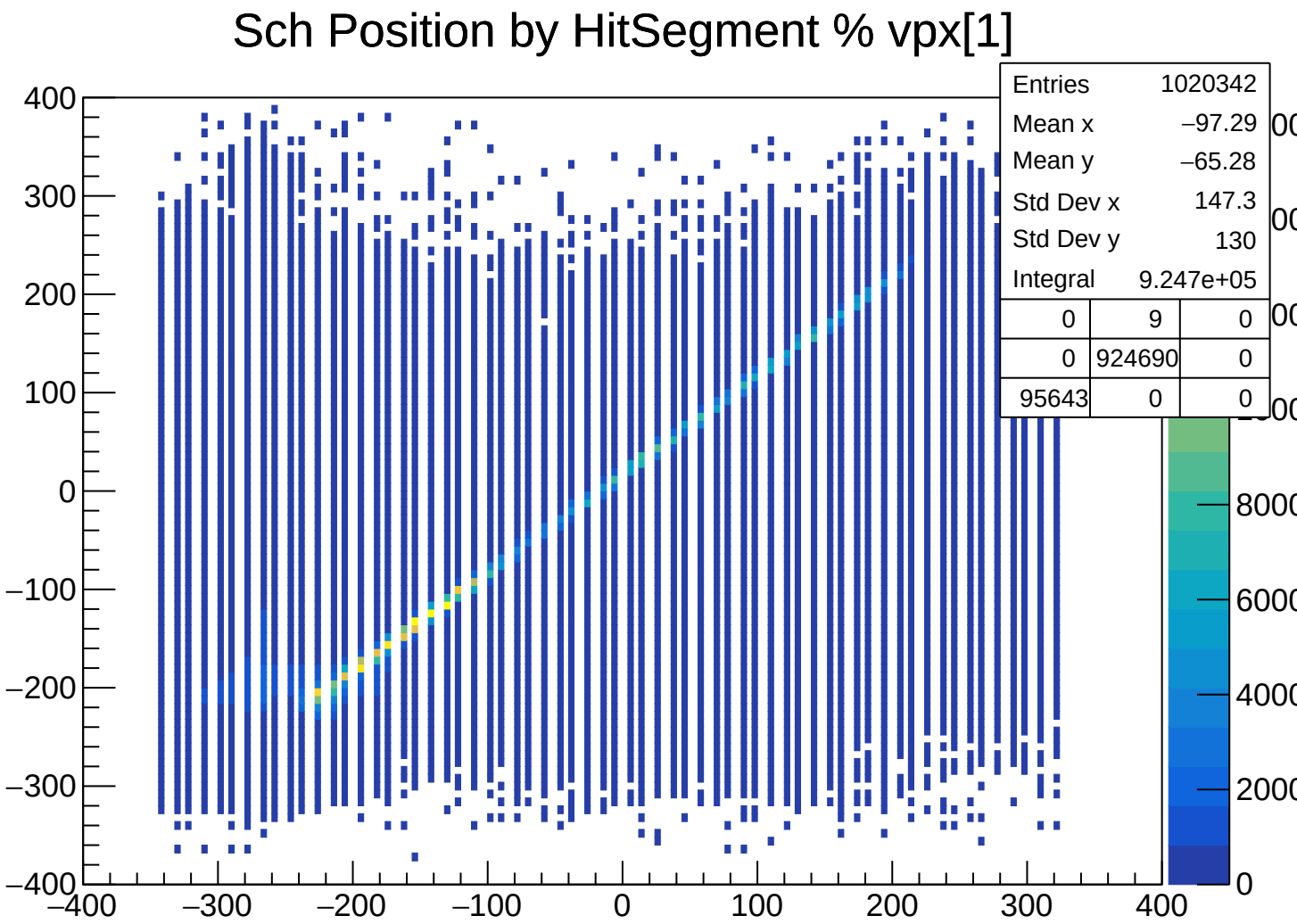

qKurama Cut4
Entries 5271
Mean –1
Std Dev 0
Underflow 0
Overflow 0
Integral 5271
5000
4000
3000
2000
1000
0
–3
–2
–1
0
1
2
3


vpx[1] Cut4
Entries 5271
Mean –113
Std Dev 66.97
Underflow 0
Overflow 0
Integral 5271
300
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

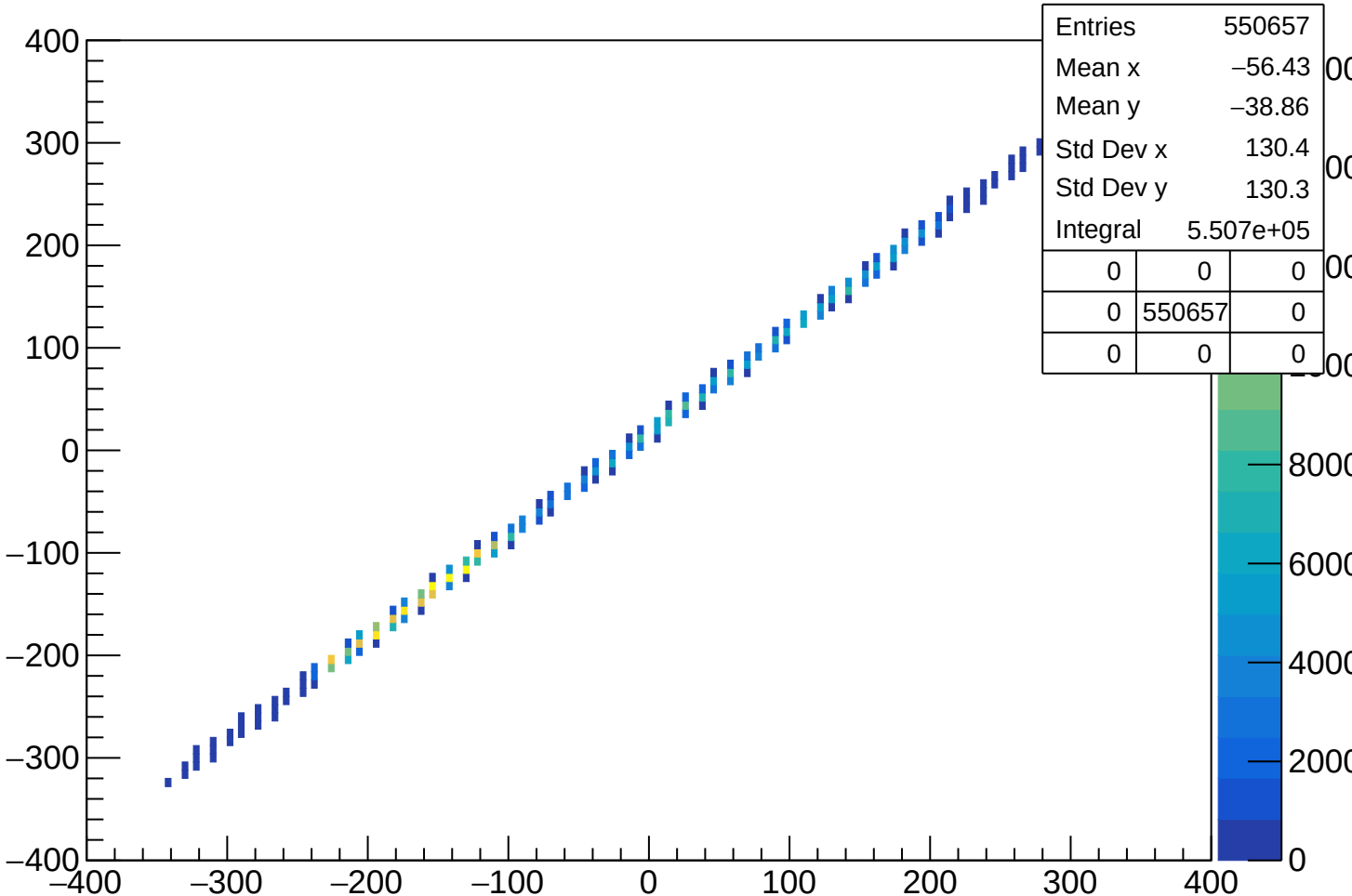

vpseg[1] Cut4
Entries 5271
Mean 20.04
Std Dev 6.378
Underflow 0
Overflow 0
Integral 5271
0
100
200
300
400
500
0
10
20
30
40
50
60

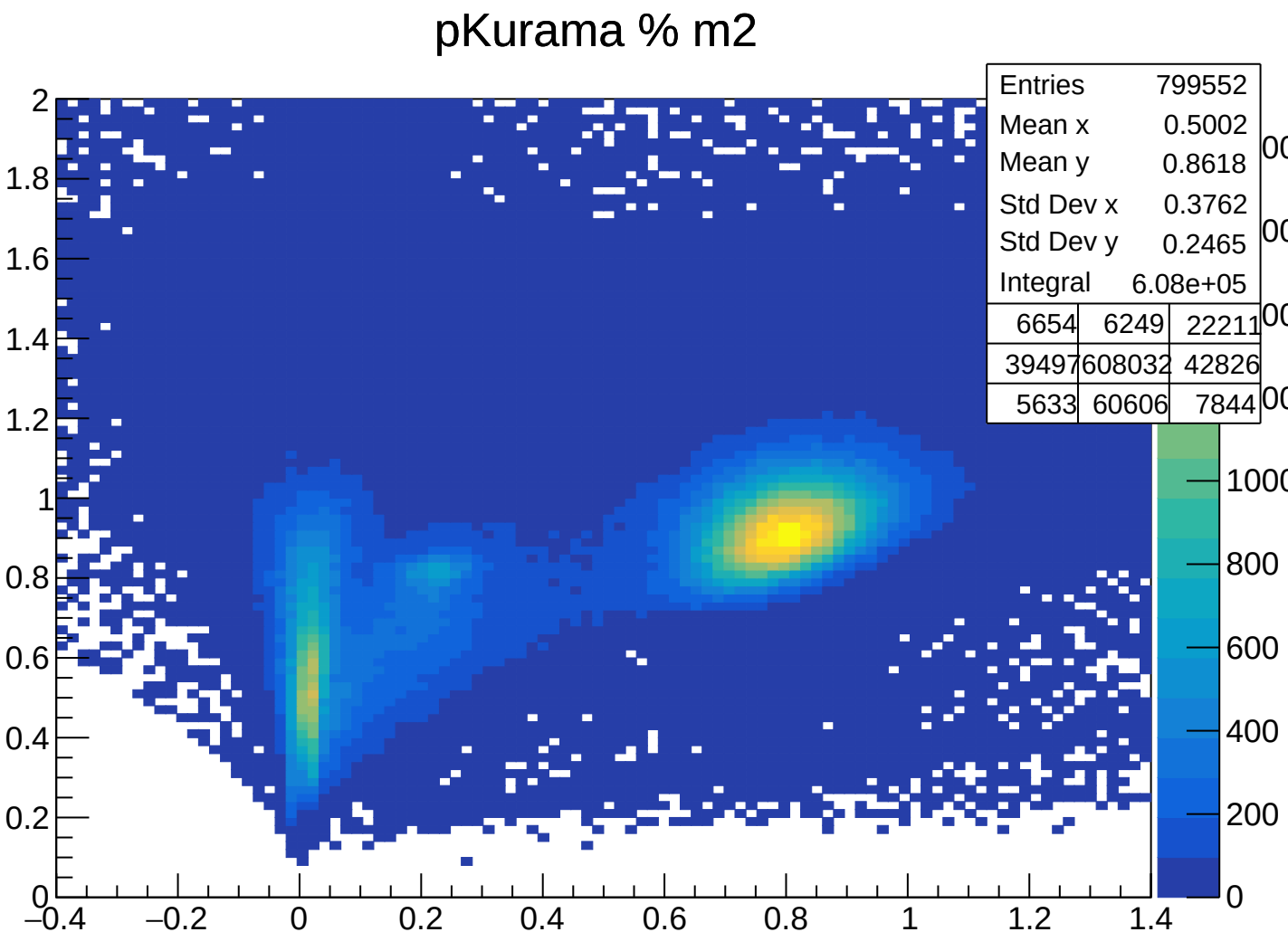

TofSeg[0] Cut4
Entries 5271
Mean 12.94
Std Dev 5.104
Underflow 0
Overflow 7
Integral 5264
0
100
200
300
400
500
600
0
2
4
6
8
10
12
14
16
18
20
22
24

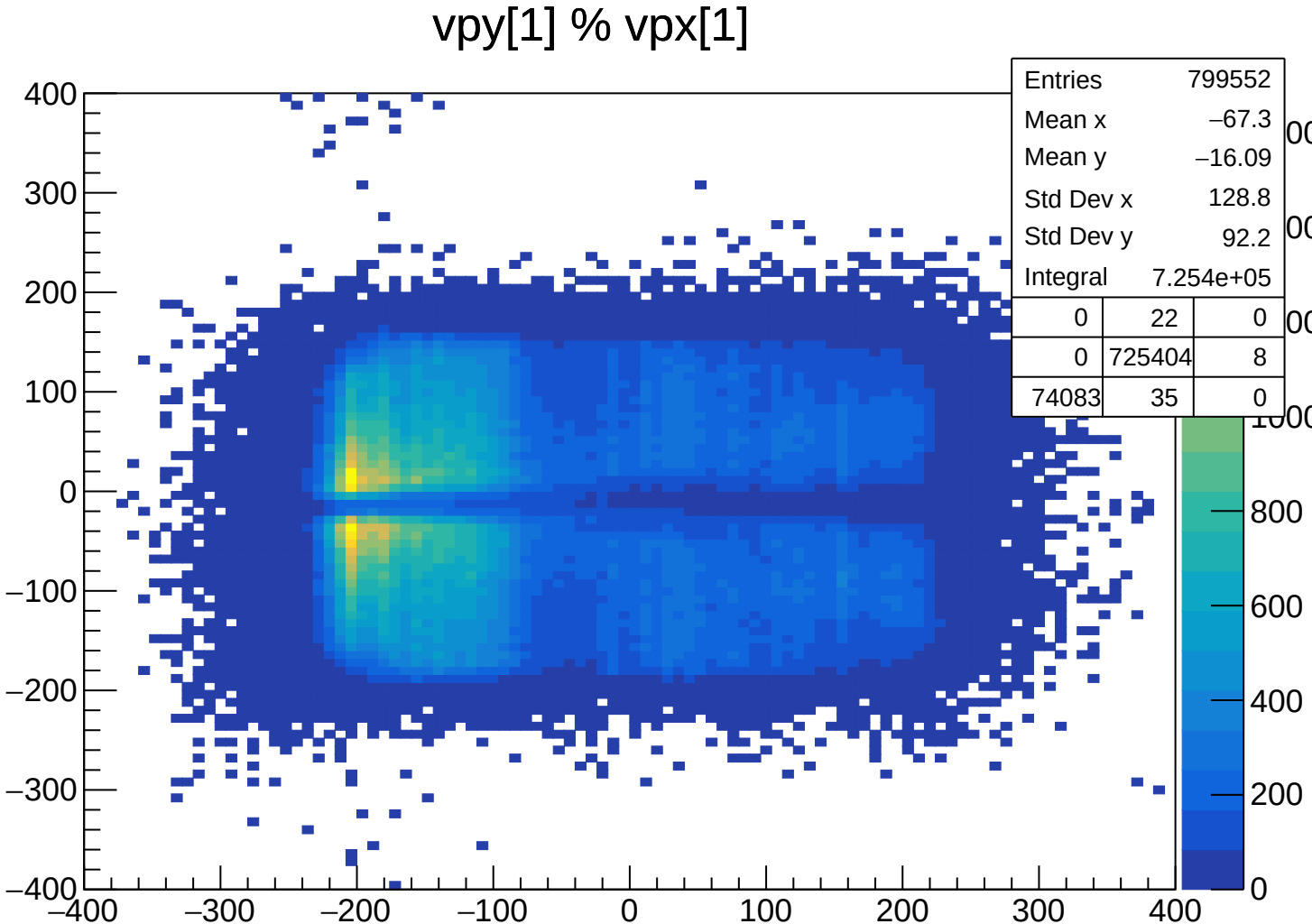

tofsegKurama[0] Cut4
Entries 5271
Mean 18.4
Std Dev 2.305
Underflow 1
Overflow 0
Integral 5270
0
200
400
600
800
1000
0
2
4
6
8
10
12
14
16
18
20
22
24

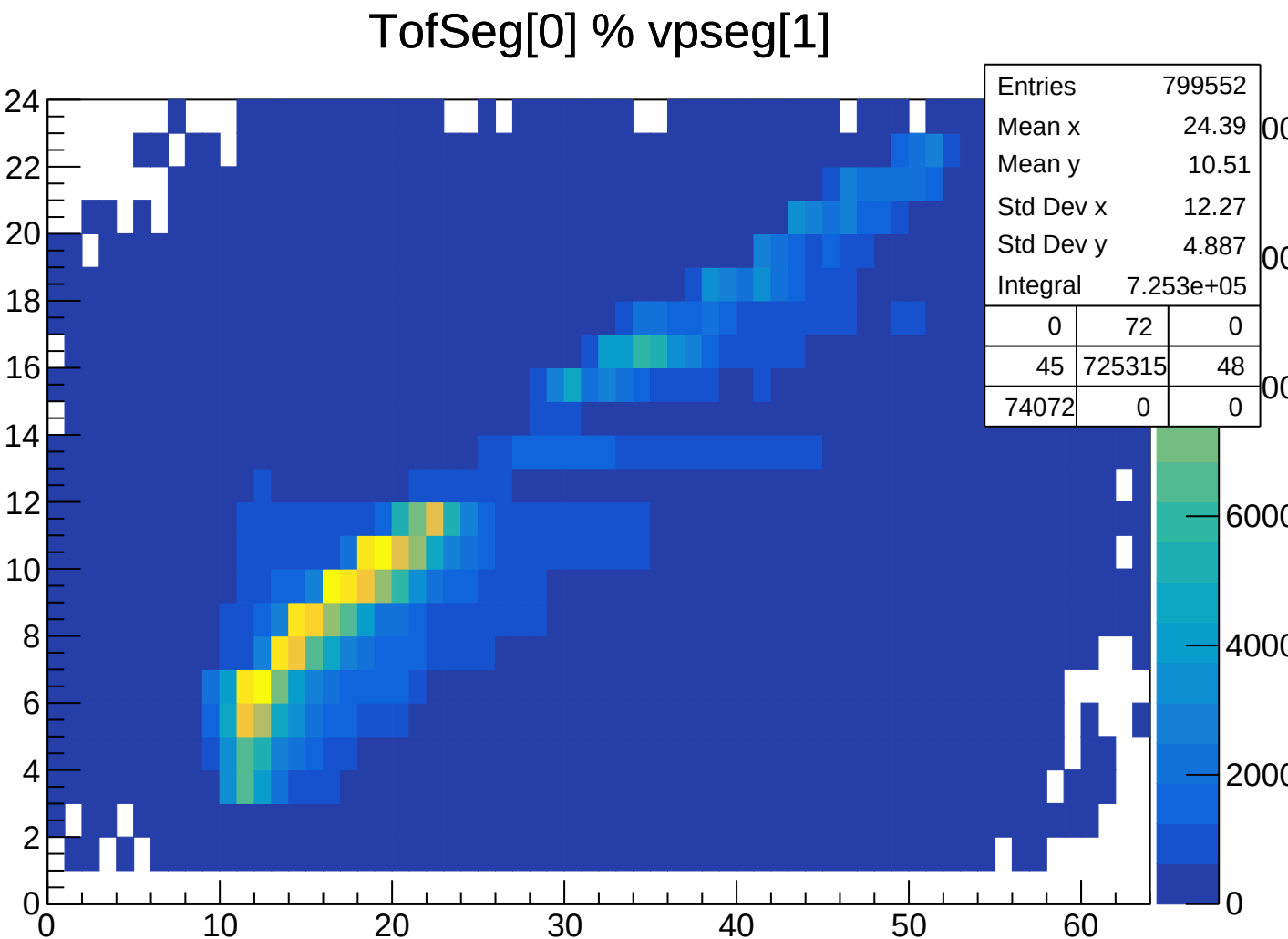

Sch Position by HitSegment % vpx[1]
Entries 1020342
Mean x −97.29
Mean y −65.28
Std Dev x 147.3
Std Dev y 130
Integral 9.247e+05
0 9 0
0 924690 0
95643 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
8000
6000
4000
2000
0

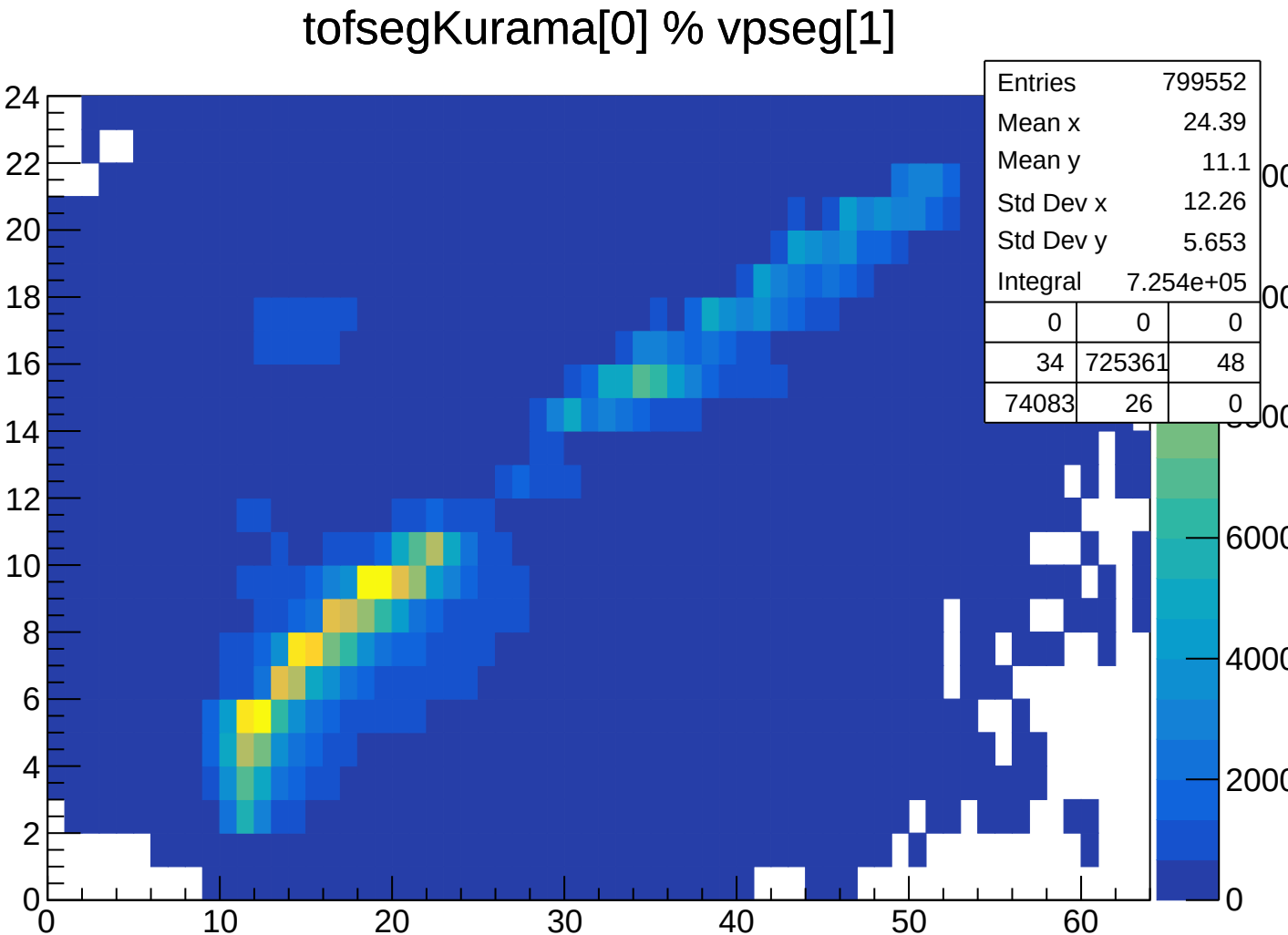
Sch Position by HitSegment % vpx[1] Cut1

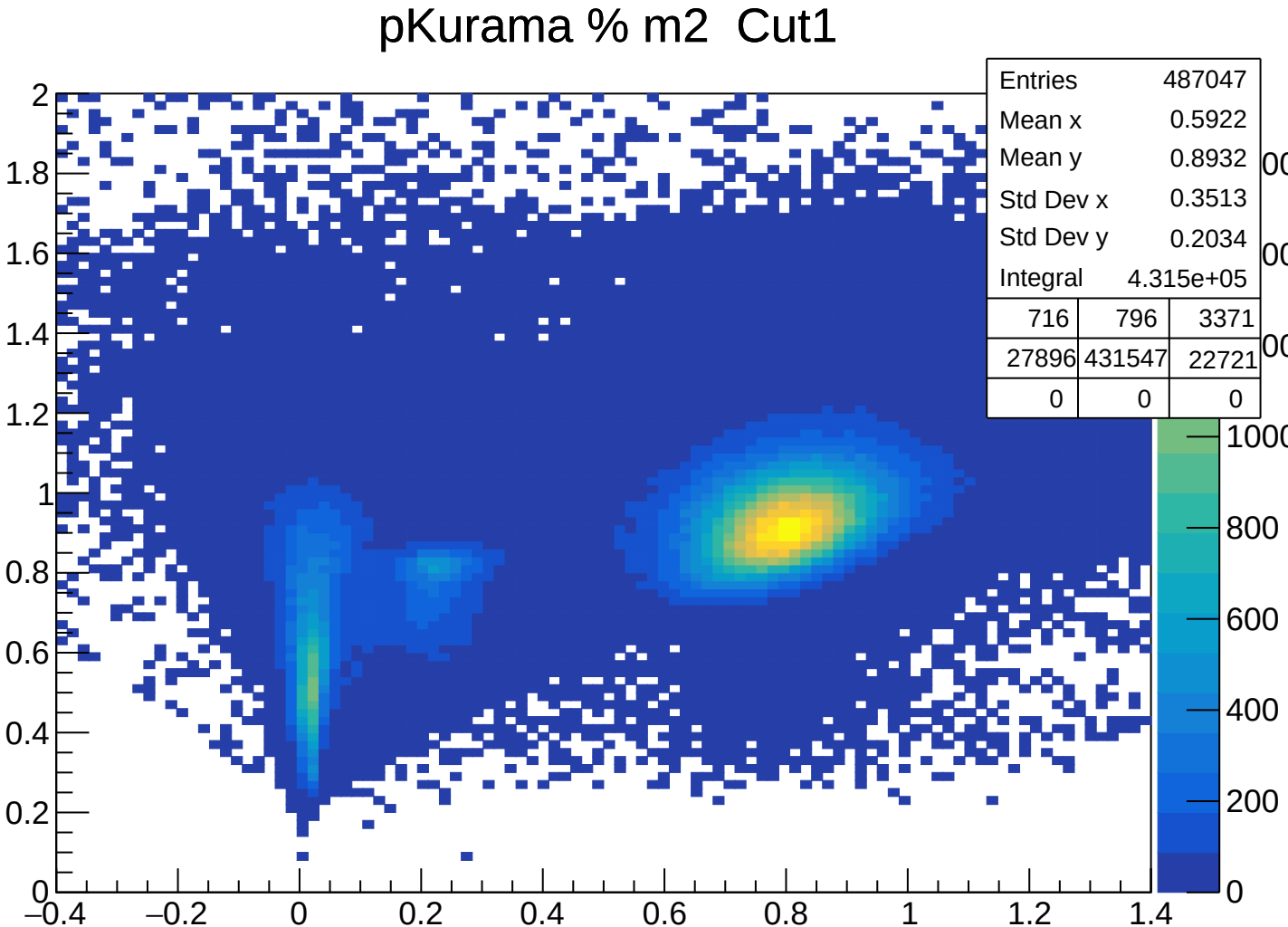


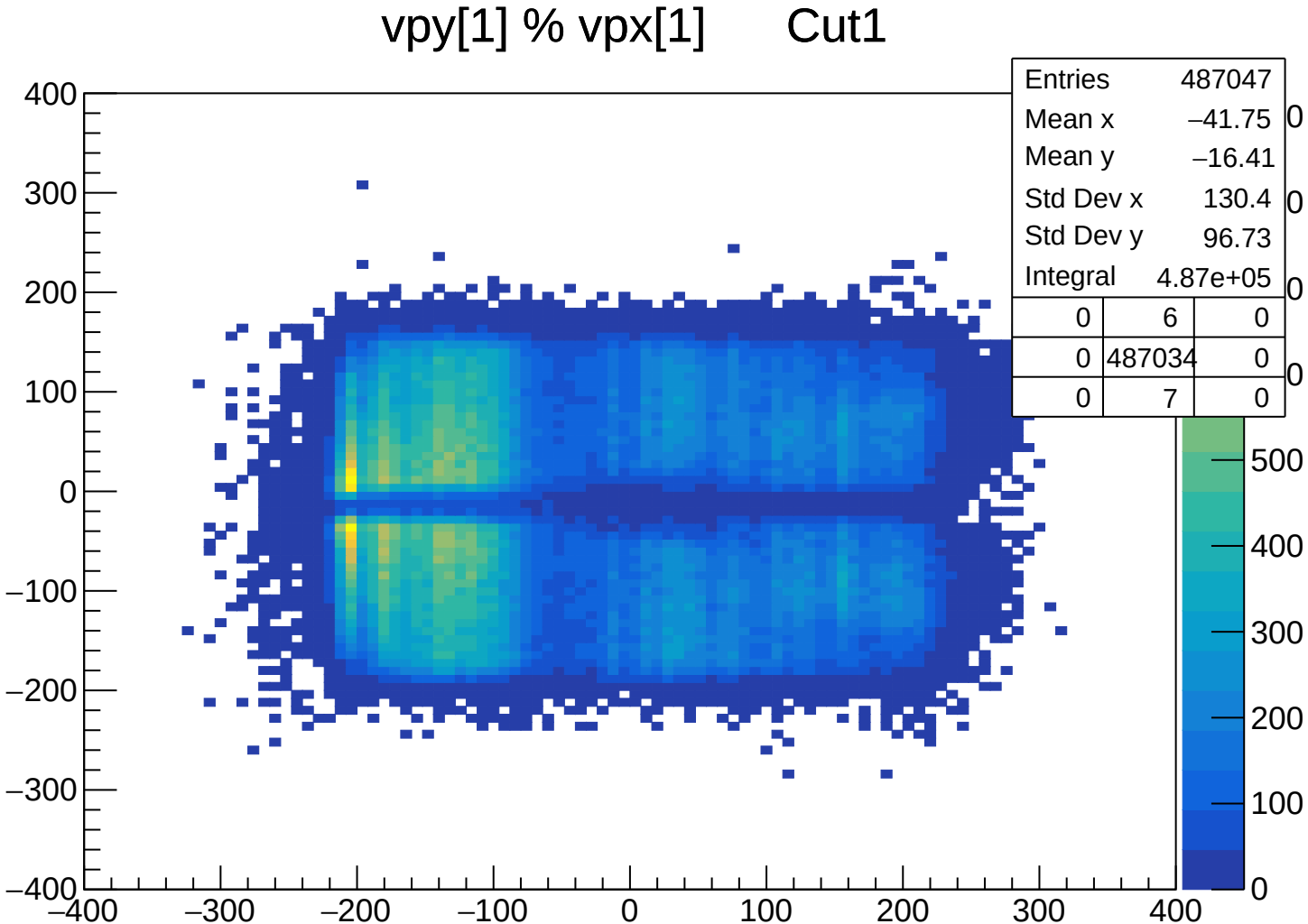

pKurama % m2
Entries 799552
Mean x 0.5002
Mean y 0.8618
Std Dev x 0.3762
Std Dev y 0.2465
Integral 6.08e+05
6654 6249 22211
39497 608032 42826
5633 60606 7844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1000
800
600
400
200
0

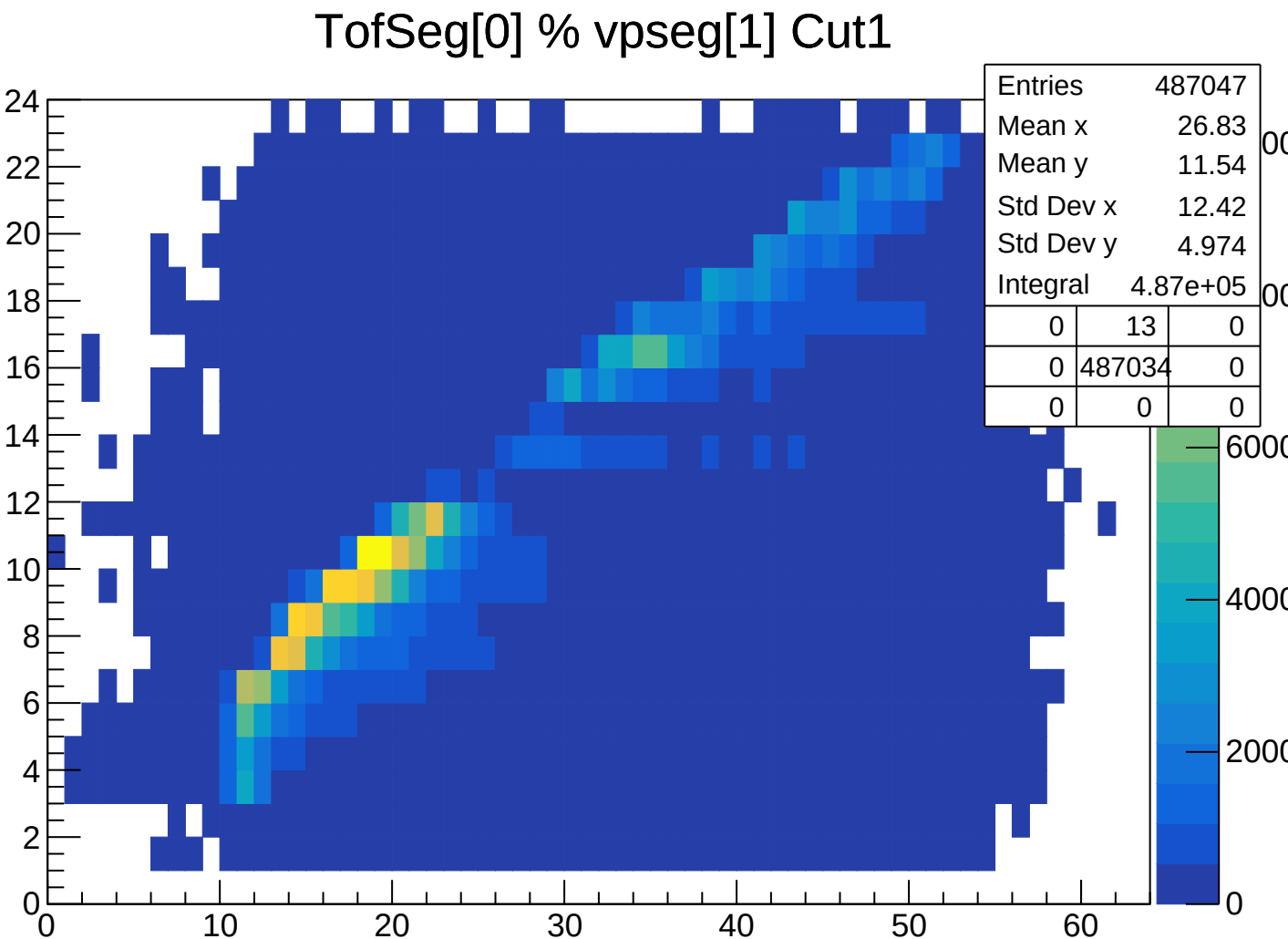

vpy[1] % vpx[1]
Entries 799552
Mean x −67.3
Mean y −16.09
Std Dev x 128.8
Std Dev y 92.2
Integral 7.254e+05
0 22 0
0 725404 8
74083 35 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
800
600
400
200
0

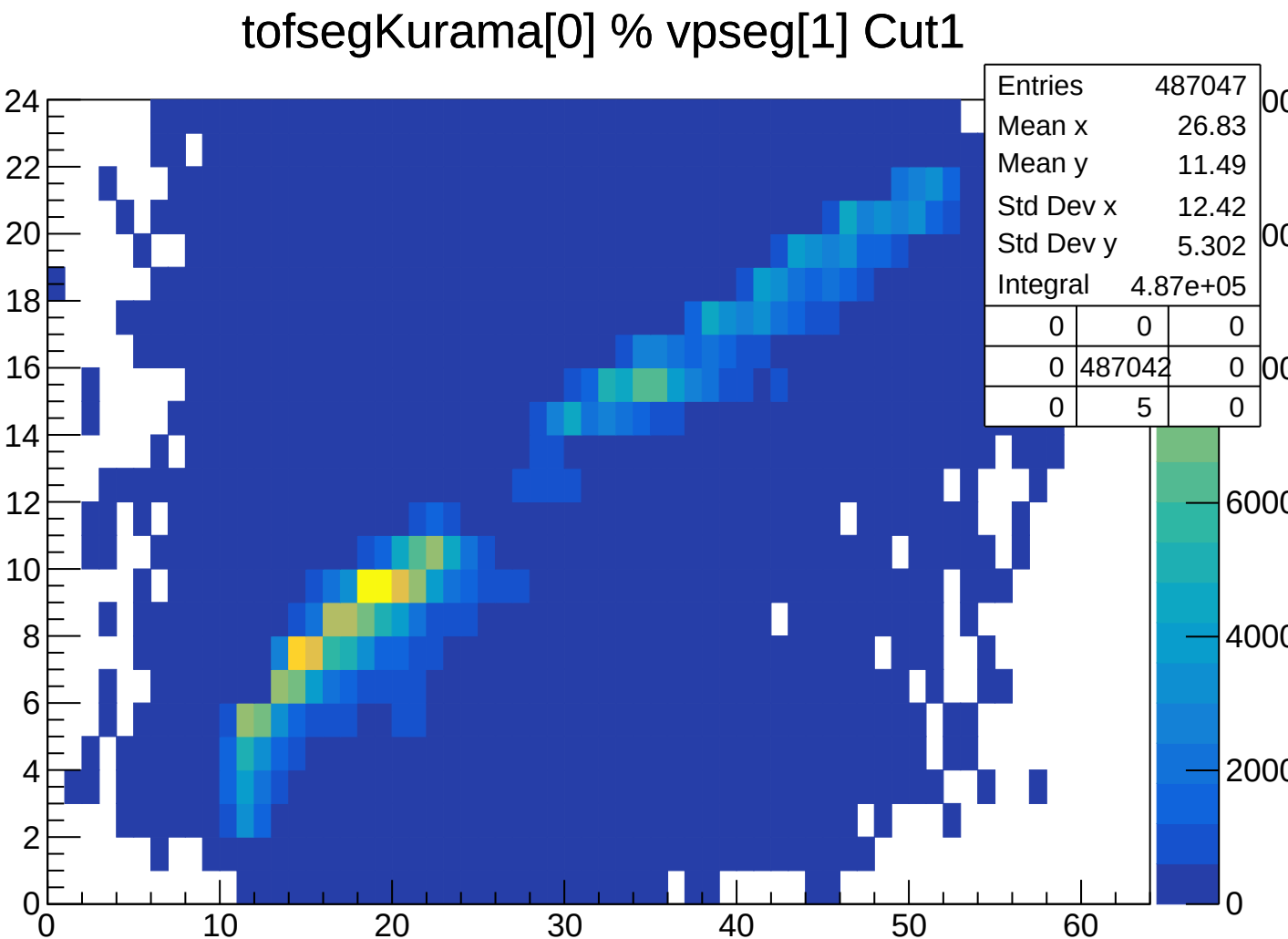

TofSeg[0] % vpseg[1]
Entries 799552
Mean x 24.39
Mean y 10.51
Std Dev x 12.27
Std Dev y 4.887
Integral 7.253e+05
0 72 0
45 725315 48
74072 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2000
4000
6000

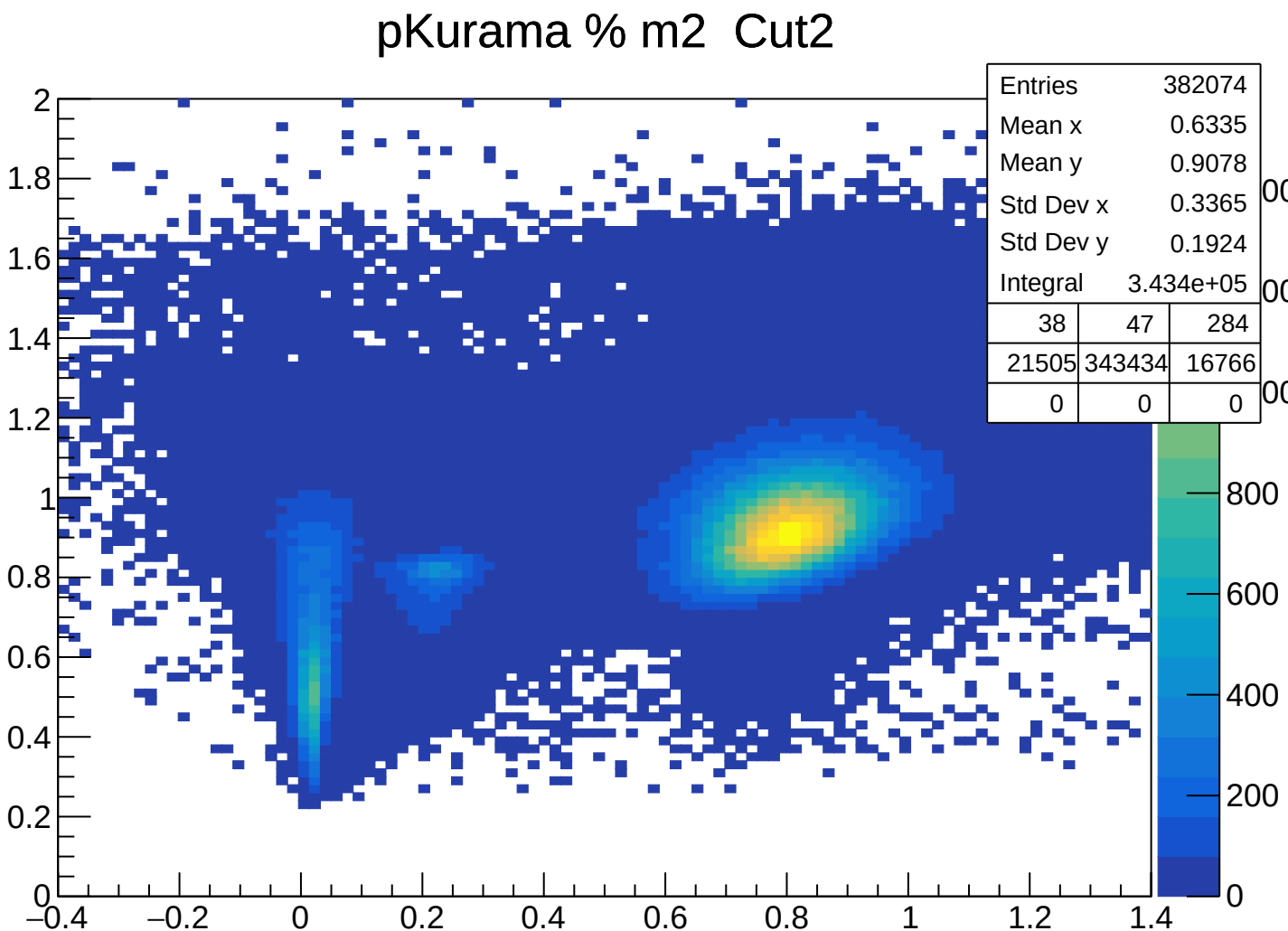

tofsegKurama[0] % vpseg[1]
Entries 799552
Mean x 24.39
Mean y 11.1
Std Dev x 12.26
Std Dev y 5.653
Integral 7.254e+05
0 0 0
34 725361 48
74083 26 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2000
4000
6000

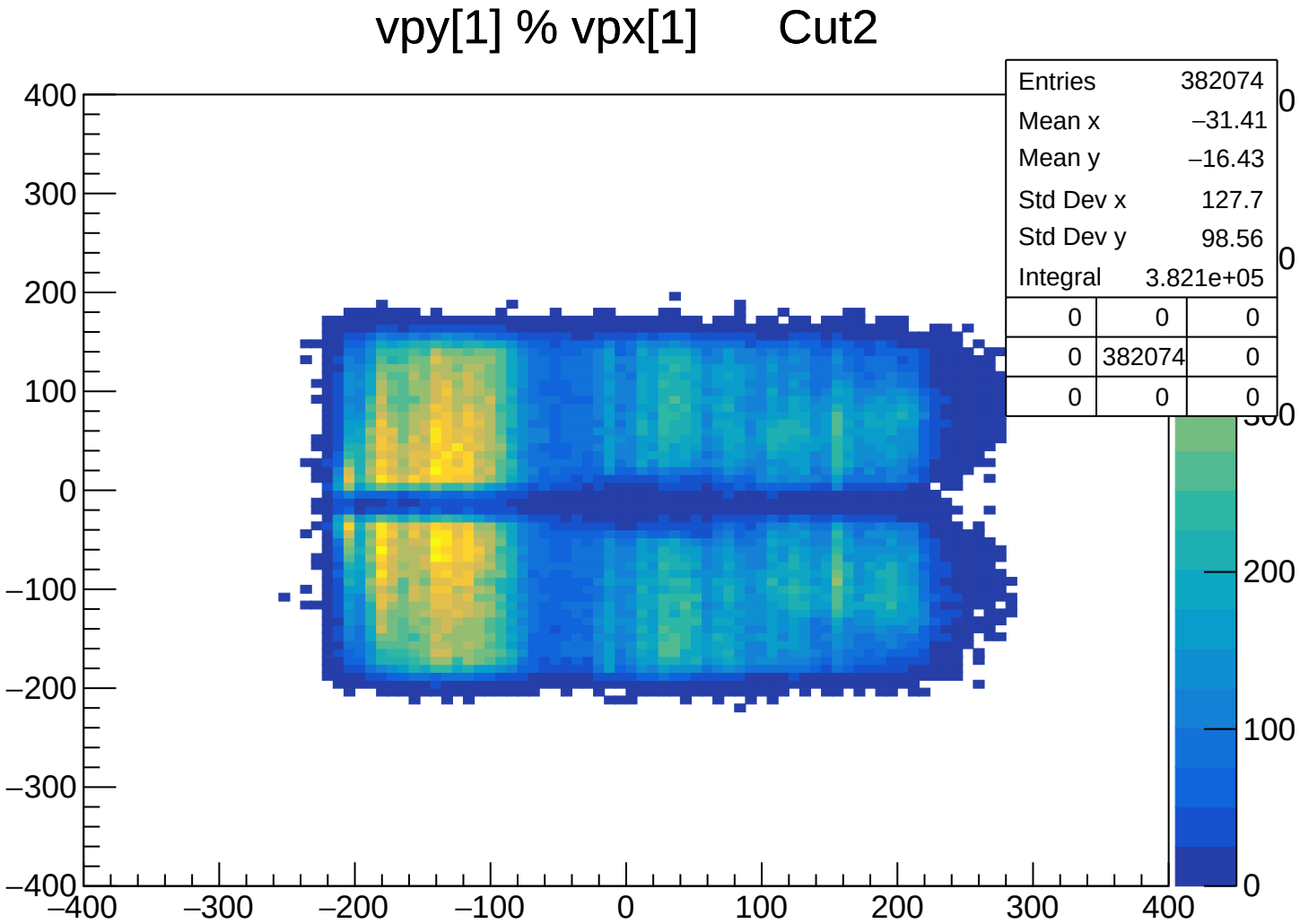

pKurama % m2 Cut1
Entries 487047
Mean x 0.5922
Mean y 0.8932
Std Dev x 0.3513
Std Dev y 0.2034
Integral 4.315e+05
716 796 3371
27896 431547 22721
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1000
800
600
400
200
0

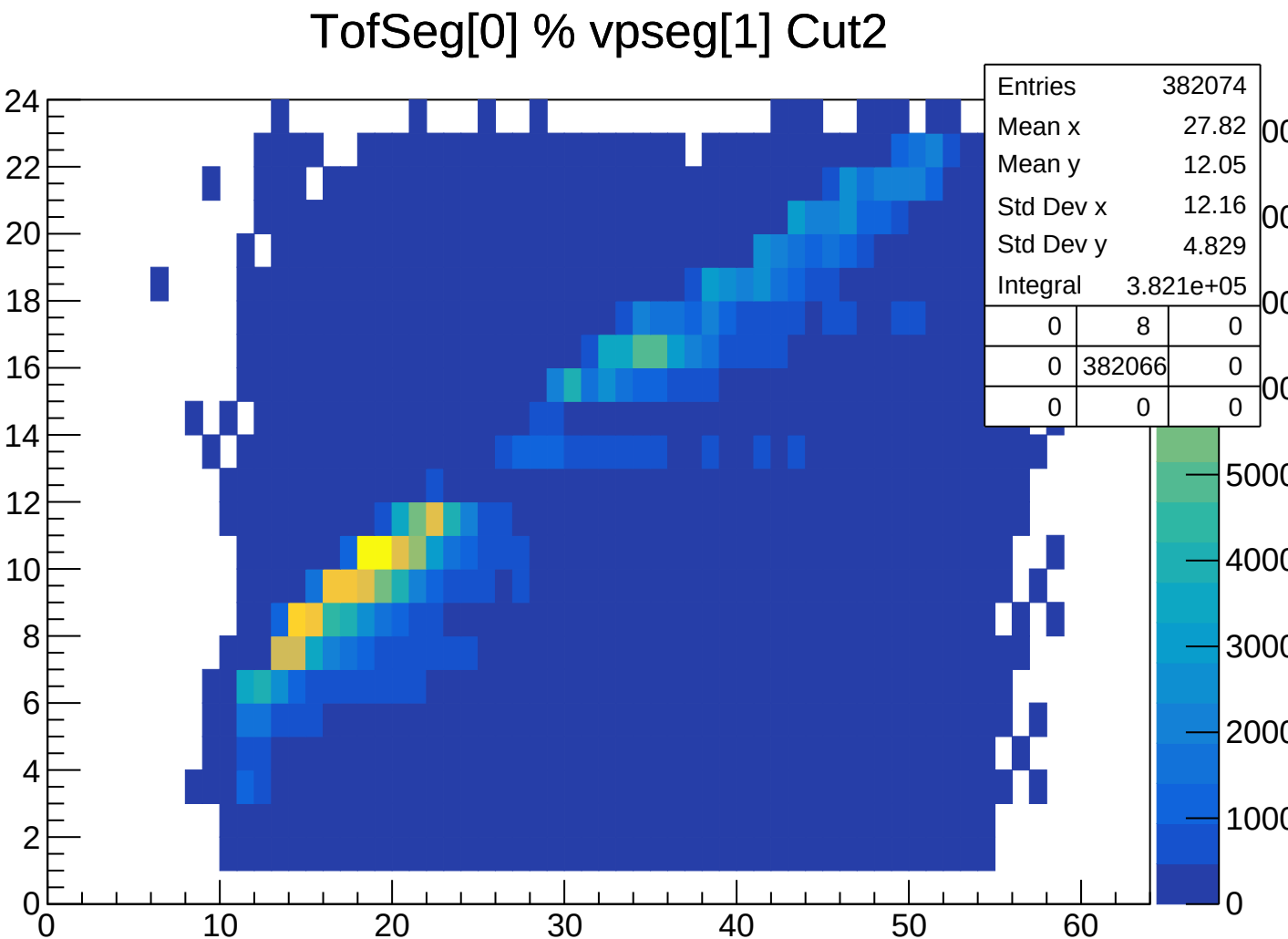

vpy[1] % vpx[1] Cut1
Entries 487047
Mean x –41.75
Mean y –16.41
Std Dev x 130.4
Std Dev y 96.73
Integral 4.87e+05
0 6 0
0 487034 0
0 7 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
500
400
300
200
100
0

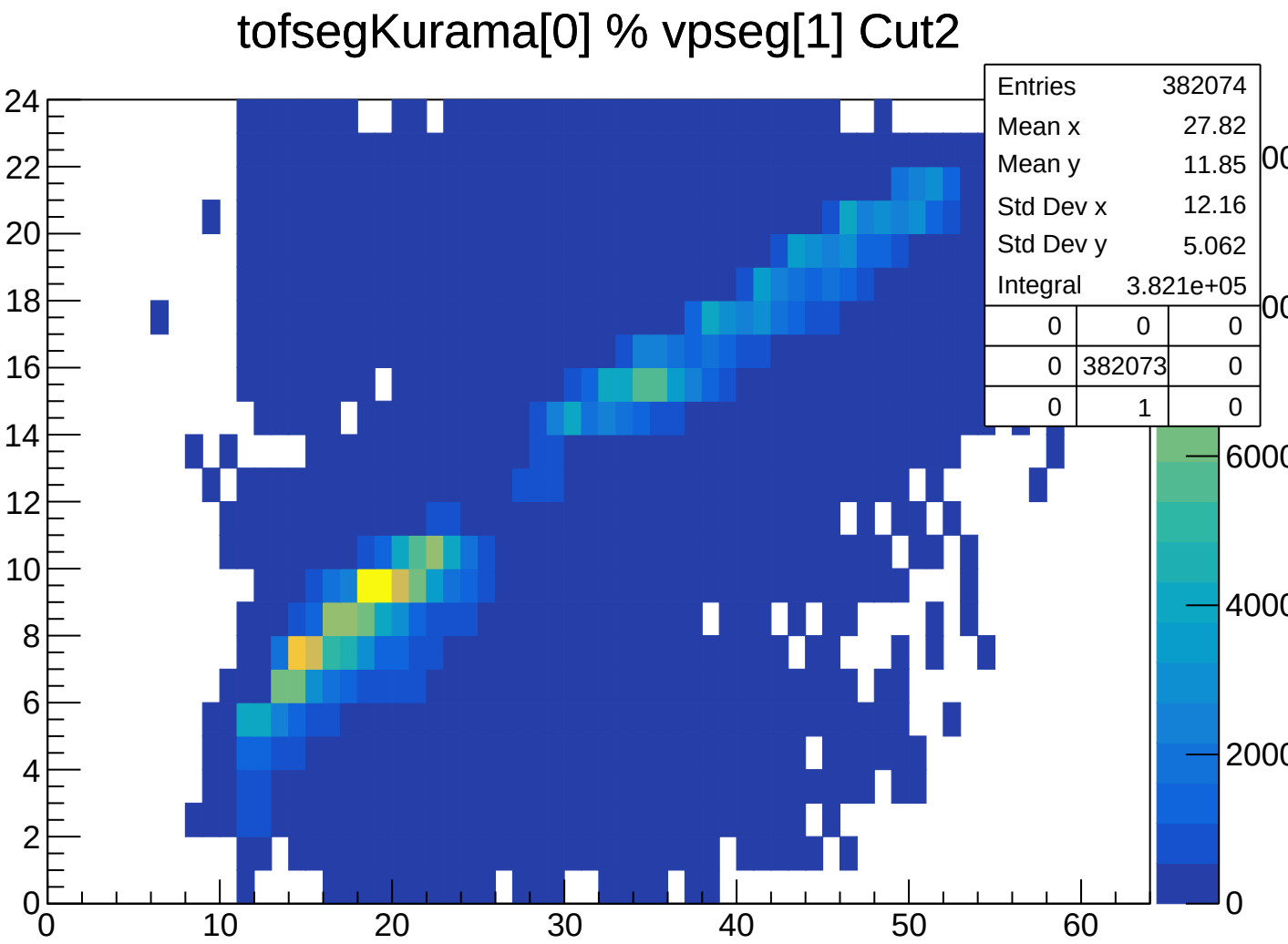

TofSeg[0] % vpseg[1] Cut1
Entries 487047
Mean x 26.83
Mean y 11.54
Std Dev x 12.42
Std Dev y 4.974
Integral 4.87e+05
0 13 0
0 487034 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2000
4000
6000

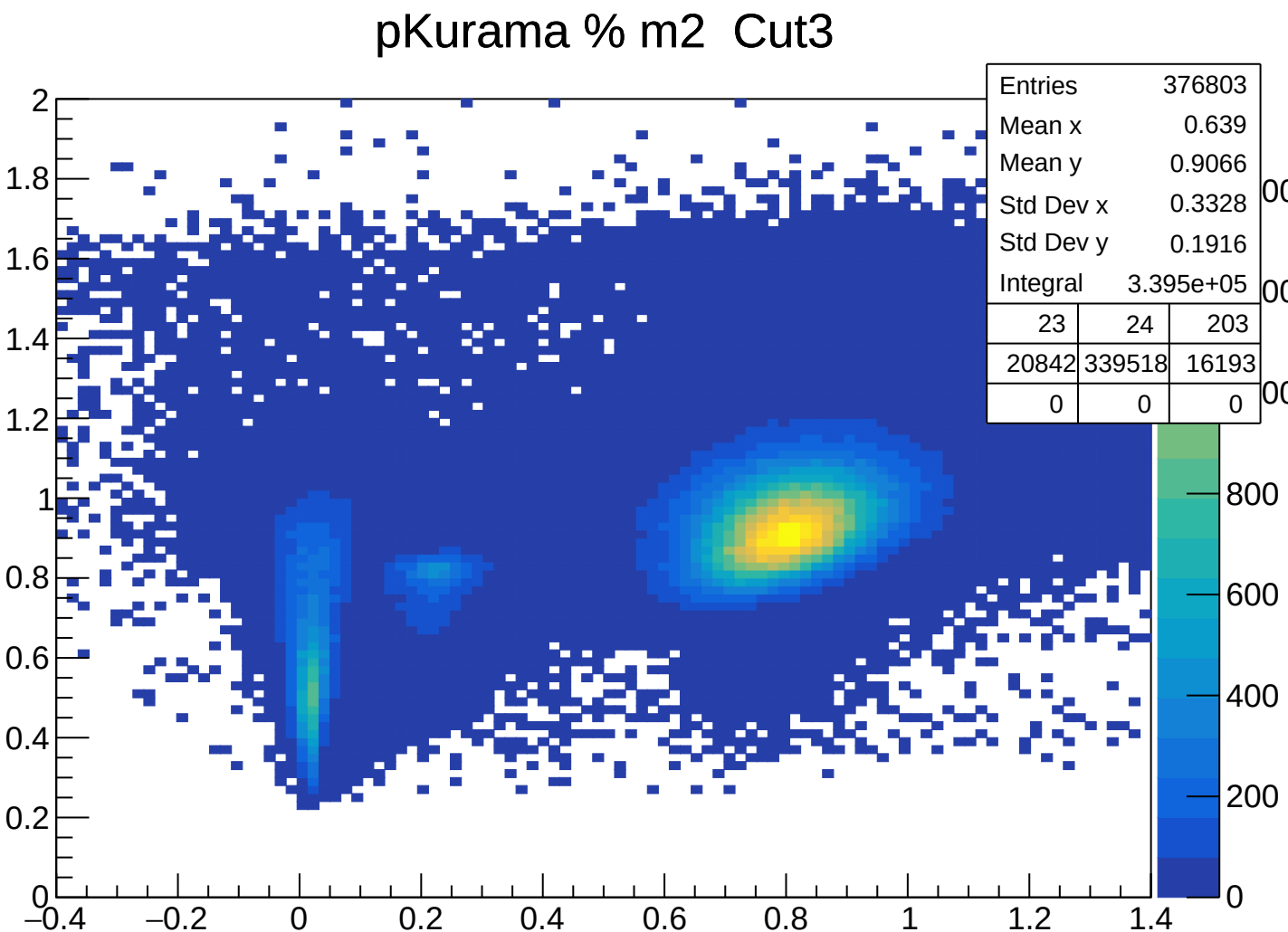

tofsegKurama[0] % vpseg[1] Cut1
Entries 487047
Mean x 26.83
Mean y 11.49
Std Dev x 12.42
Std Dev y 5.302
Integral 4.87e+05
0 0 0
0 487042 0
0 5 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2000
4000
6000

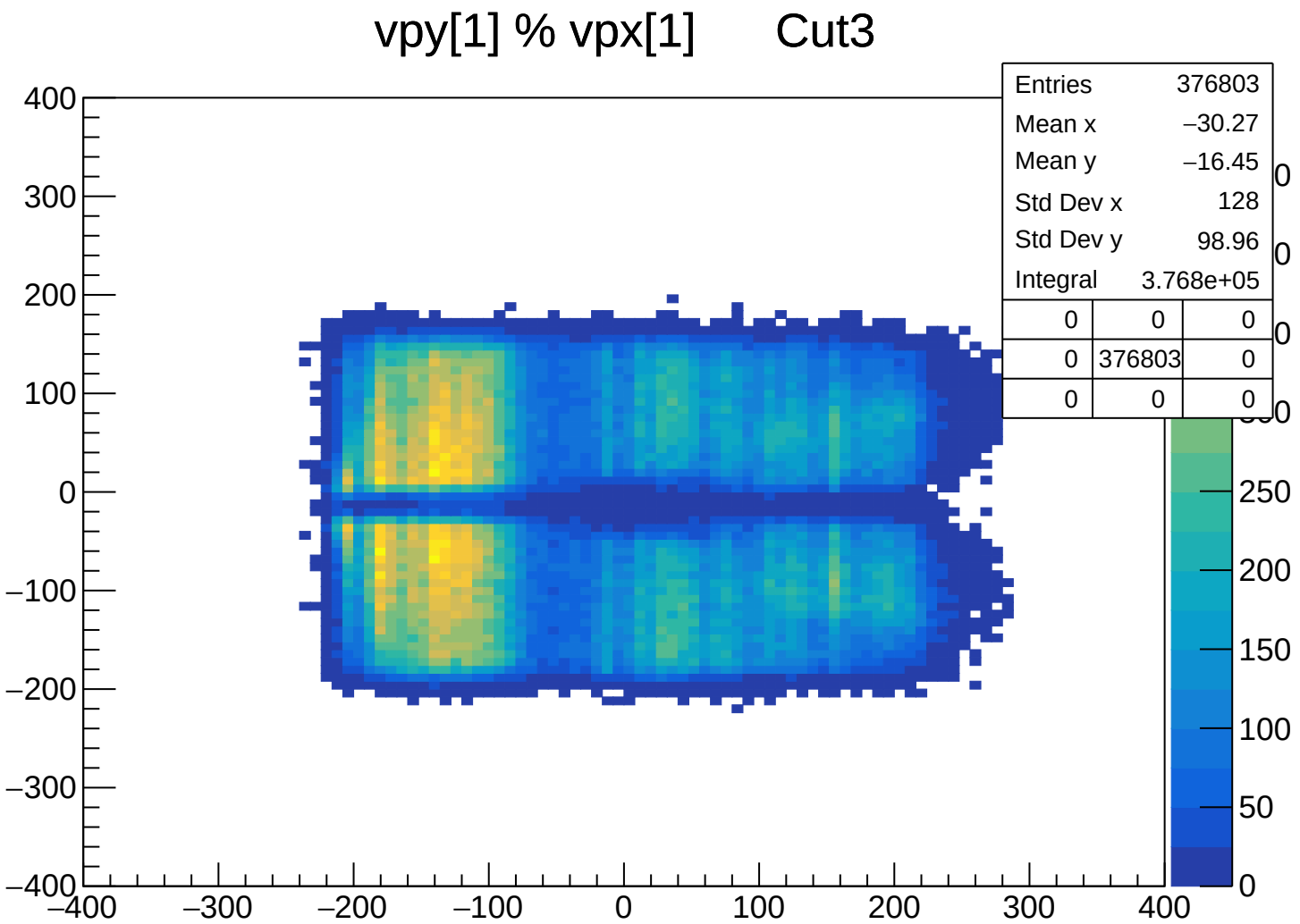

pKurama % m2 Cut2
Entries 382074
Mean x 0.6335
Mean y 0.9078
Std Dev x 0.3365
Std Dev y 0.1924
Integral 3.434e+05
38 47 284
21505 343434 16766
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
800
600
400
200
0

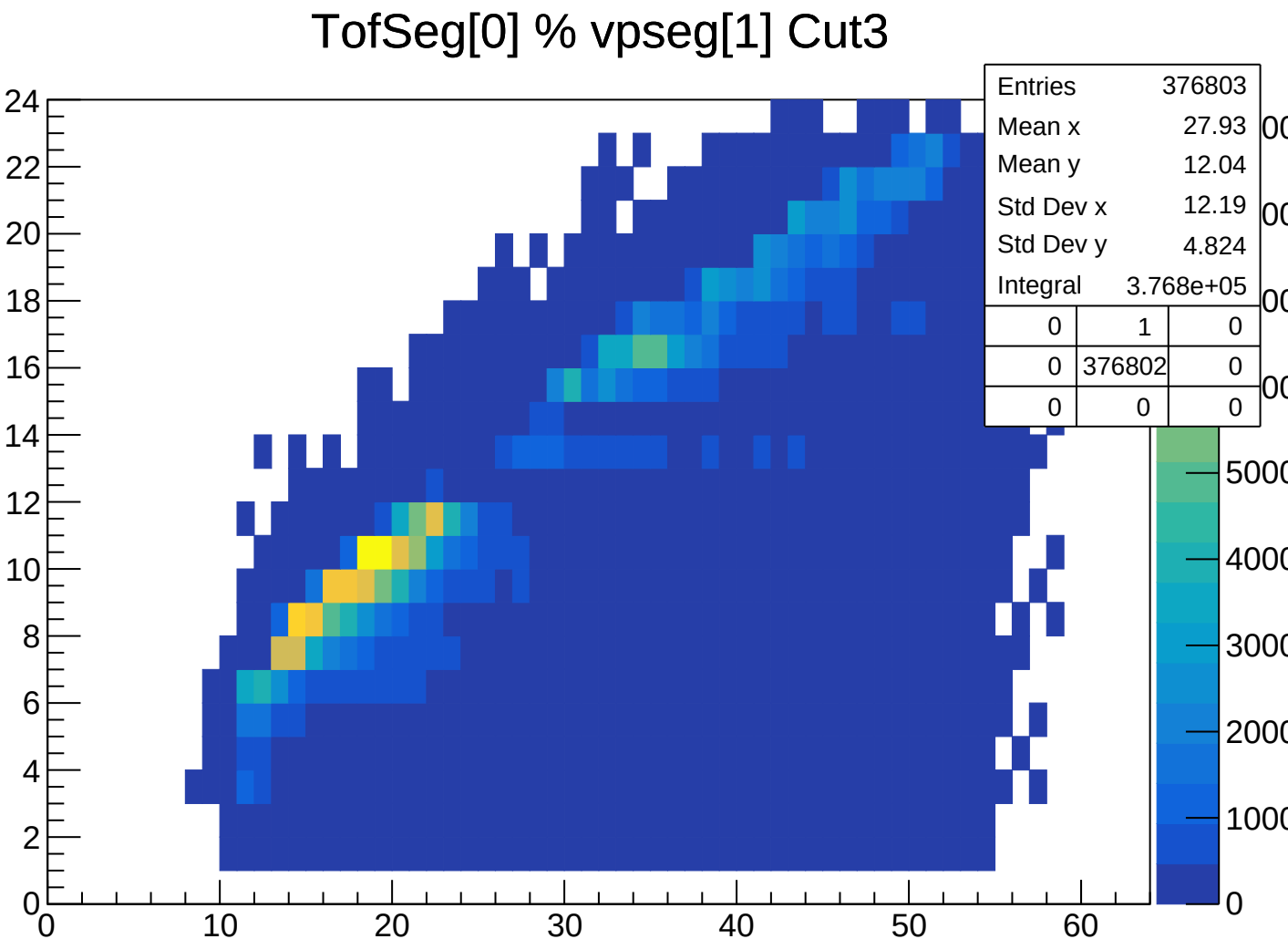

vpy[1] % vpx[1] Cut2
Entries 382074
Mean x −31.41
Mean y −16.43
Std Dev x 127.7
Std Dev y 98.56
Integral 3.821e+05
0 0 0
0 382074 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
300
200
100
0

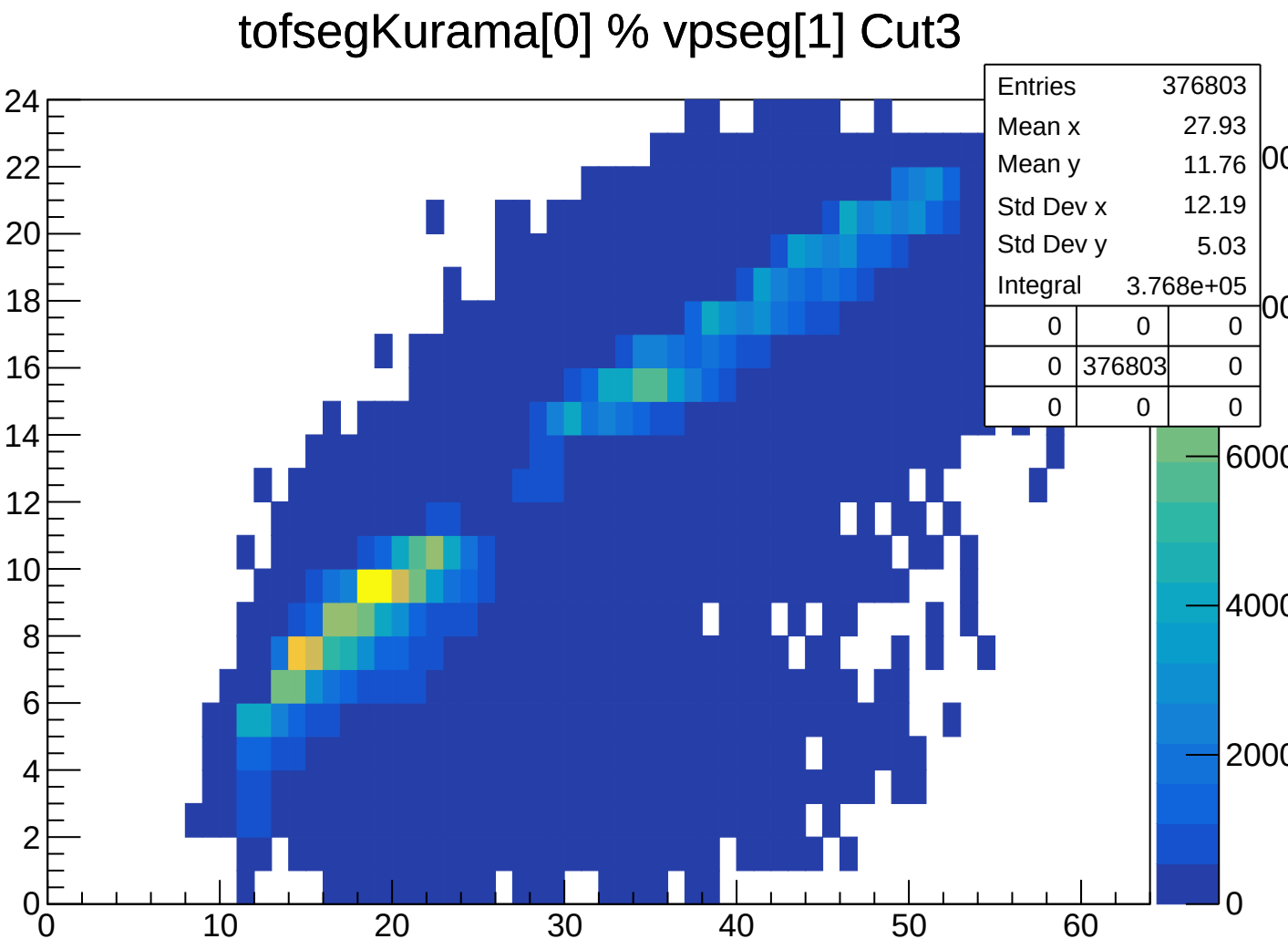

TofSeg[0] % vpseg[1] Cut2
Entries 382074
Mean x 27.82
Mean y 12.05
Std Dev x 12.16
Std Dev y 4.829
Integral 3.821e+05
0 8 0
0 382066 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000
4000
5000

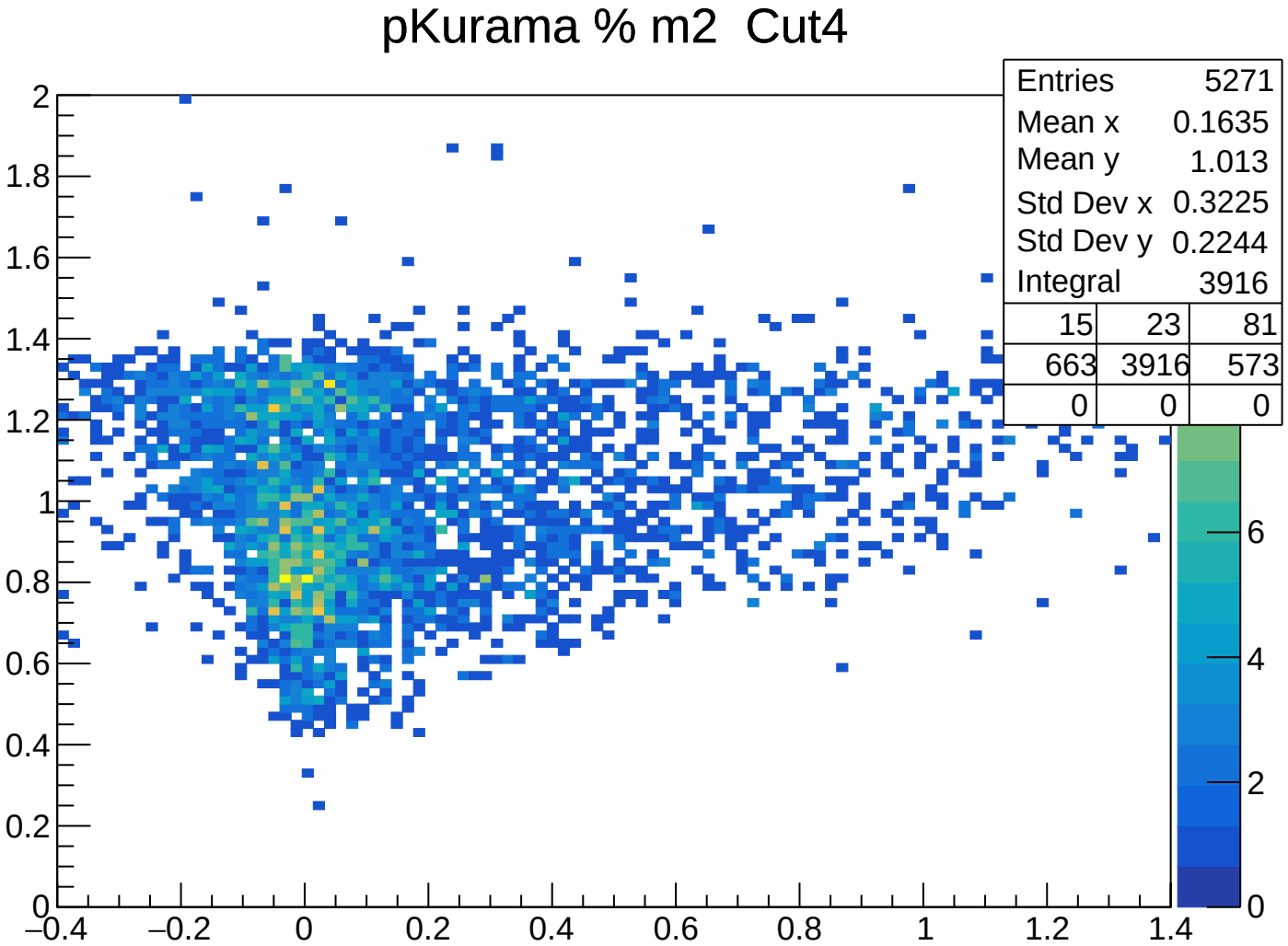

tofsegKurama[0] % vpseg[1] Cut2
Entries 382074
Mean x 27.82
Mean y 11.85
Std Dev x 12.16
Std Dev y 5.062
Integral 3.821e+05
0 0 0
0 382073 0
0 1 0
0
2000
4000
6000
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

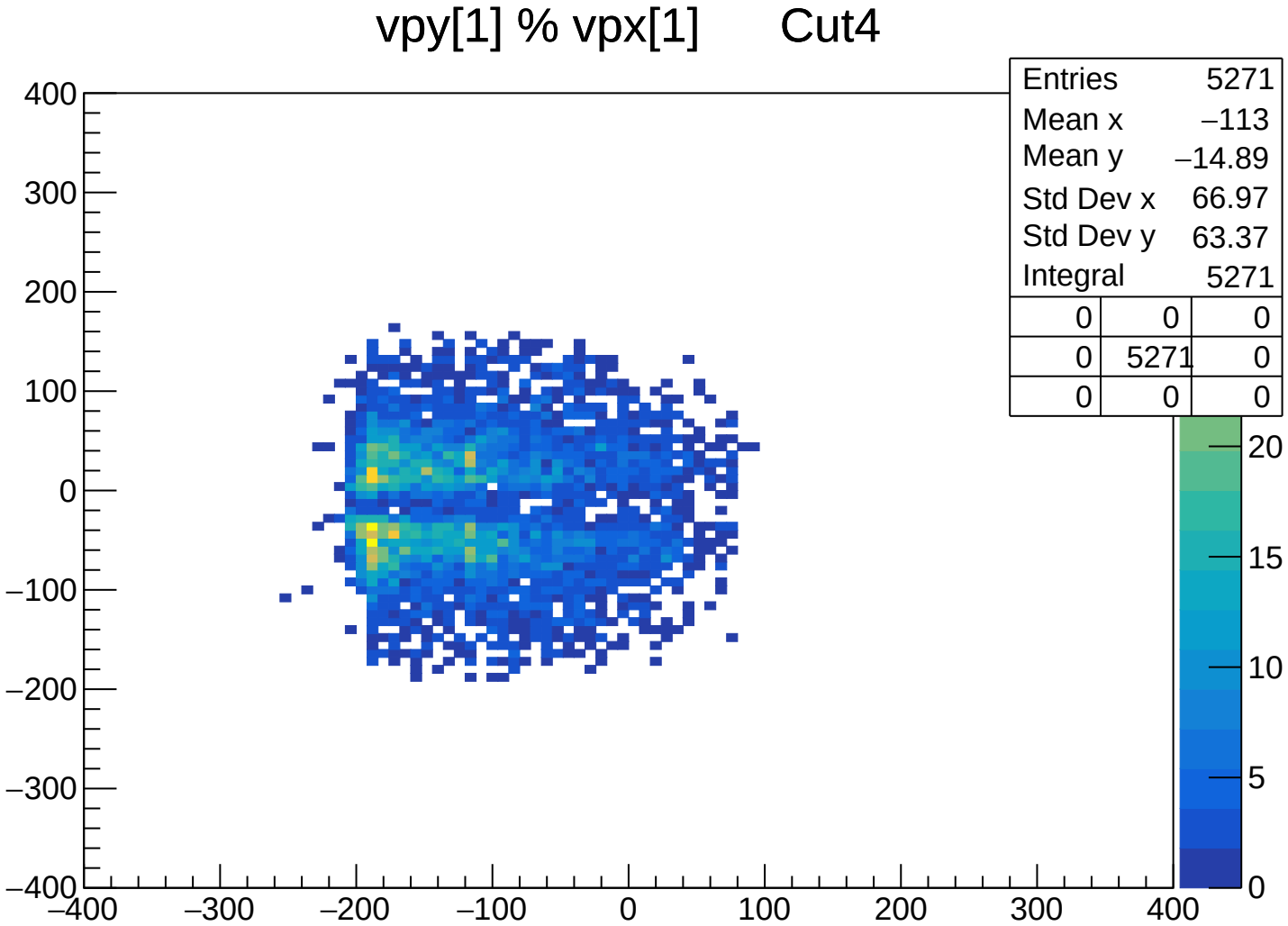

pKurama % m2 Cut3
Entries 376803
Mean x 0.639
Mean y 0.9066
Std Dev x 0.3328
Std Dev y 0.1916
Integral 3.395e+05
23 24 203
20842 339518 16193
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
800
600
400
200
0

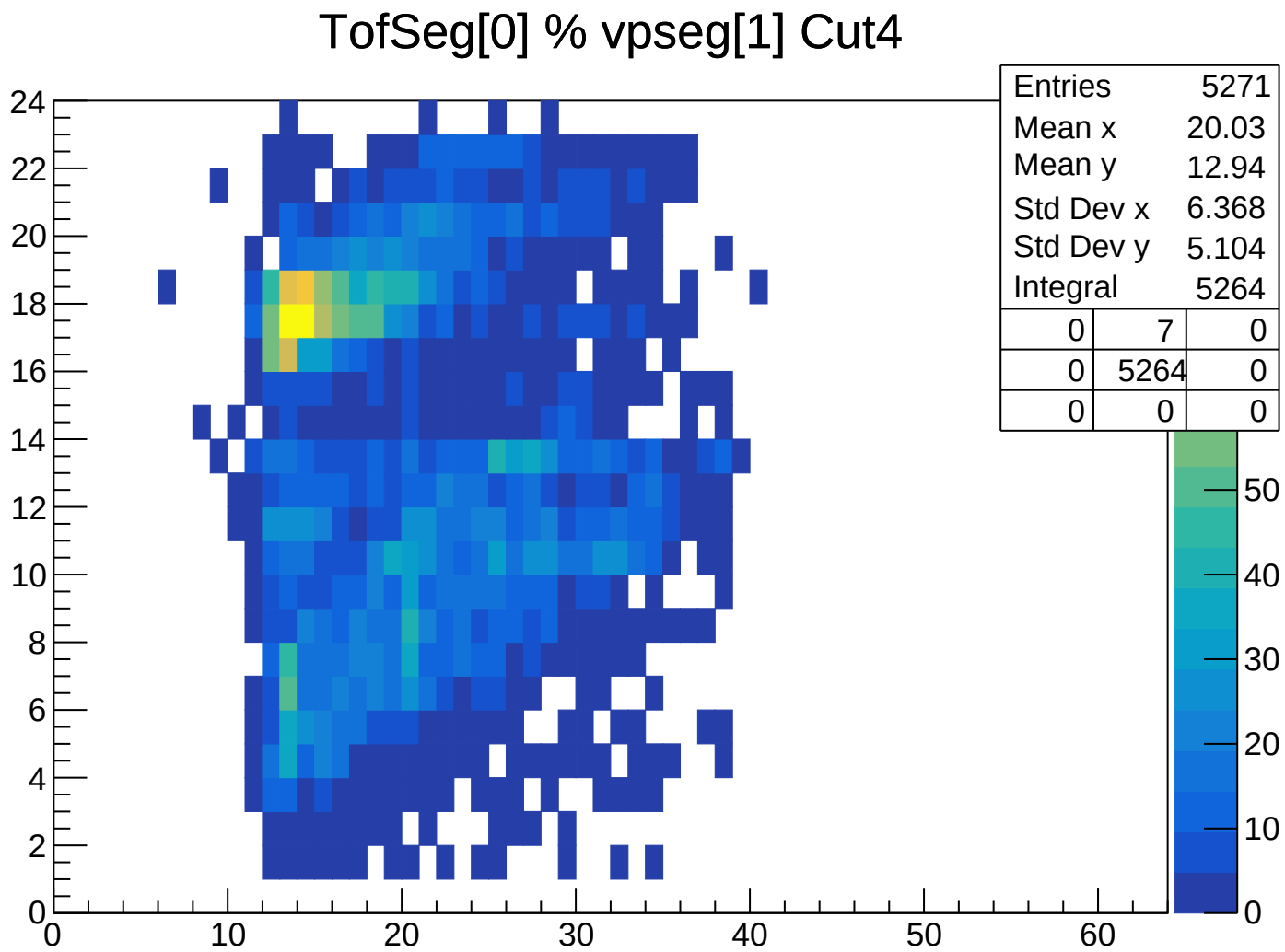

vpy[1] % vpx[1] Cut3
Entries 376803
Mean x –30.27
Mean y –16.45
Std Dev x 128
Std Dev y 98.96
Integral 3.768e+05
0 0 0
0 376803 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
250
200
150
100
50
0

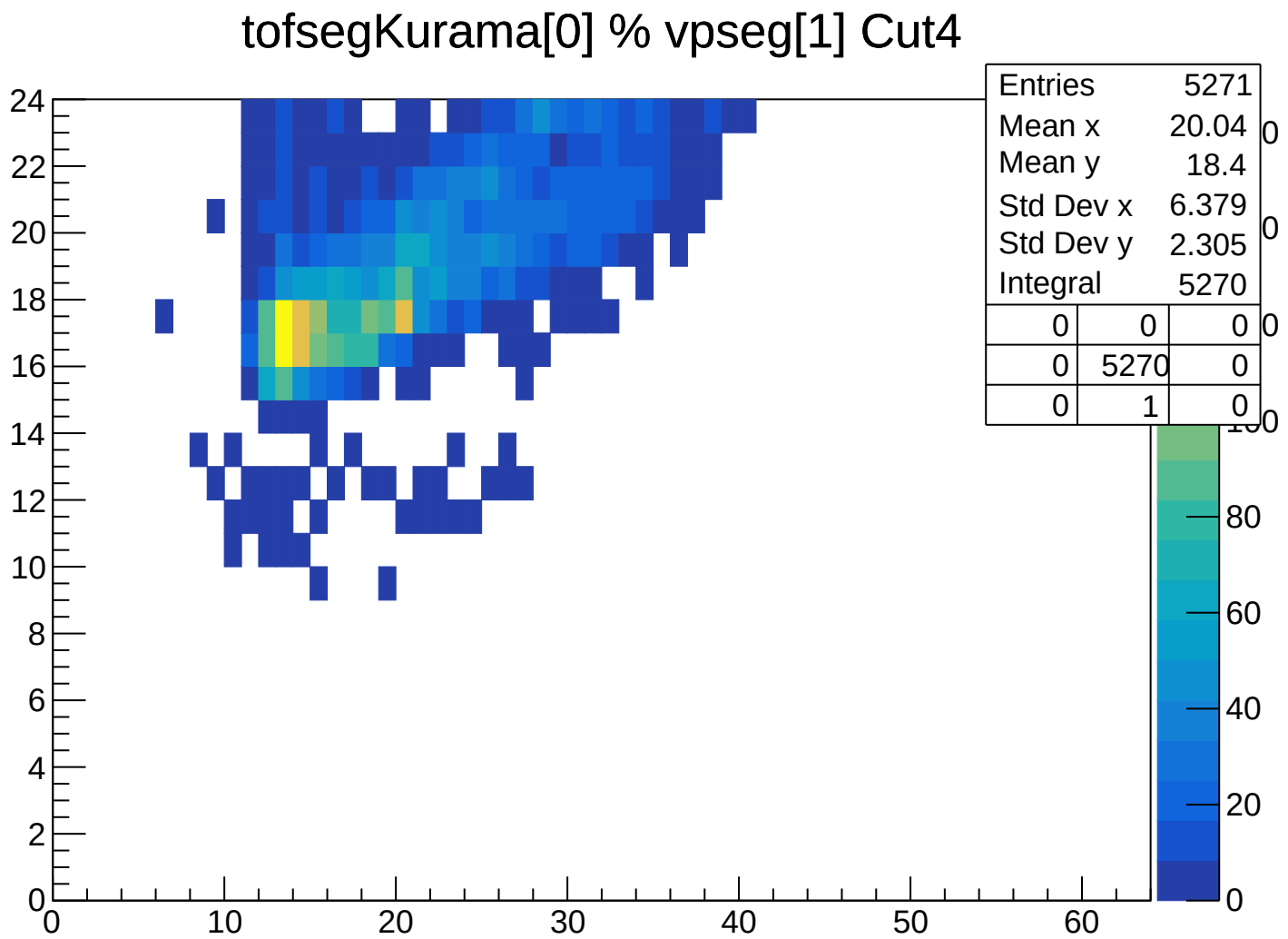

TofSeg[0] % vpseg[1] Cut3
Entries 376803
Mean x 27.93
Mean y 12.04
Std Dev x 12.19
Std Dev y 4.824
Integral 3.768e+05
0 1 0
0 376802 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000
4000
5000


tofsegKurama[0] % vpseg[1] Cut3
Entries 376803
Mean x 27.93
Mean y 11.76
Std Dev x 12.19
Std Dev y 5.03
Integral 3.768e+05
0 0 0
0 376803 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
2000
4000
6000

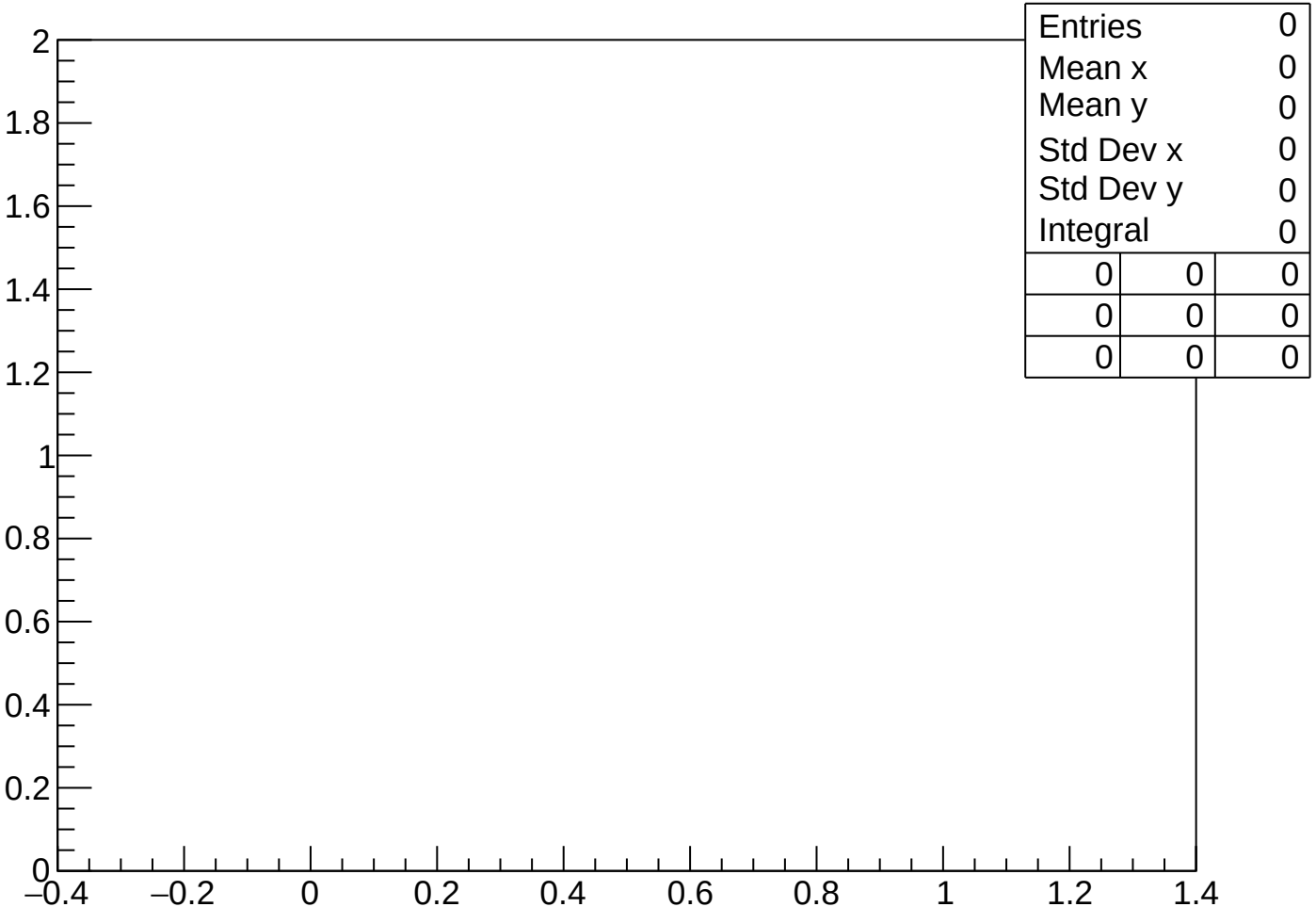

pKurama % m2 Cut4
Entries 5271
Mean x 0.1635
Mean y 1.013
Std Dev x 0.3225
Std Dev y 0.2244
Integral 3916
15 23 81
663 3916 573
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
6
4
2
0

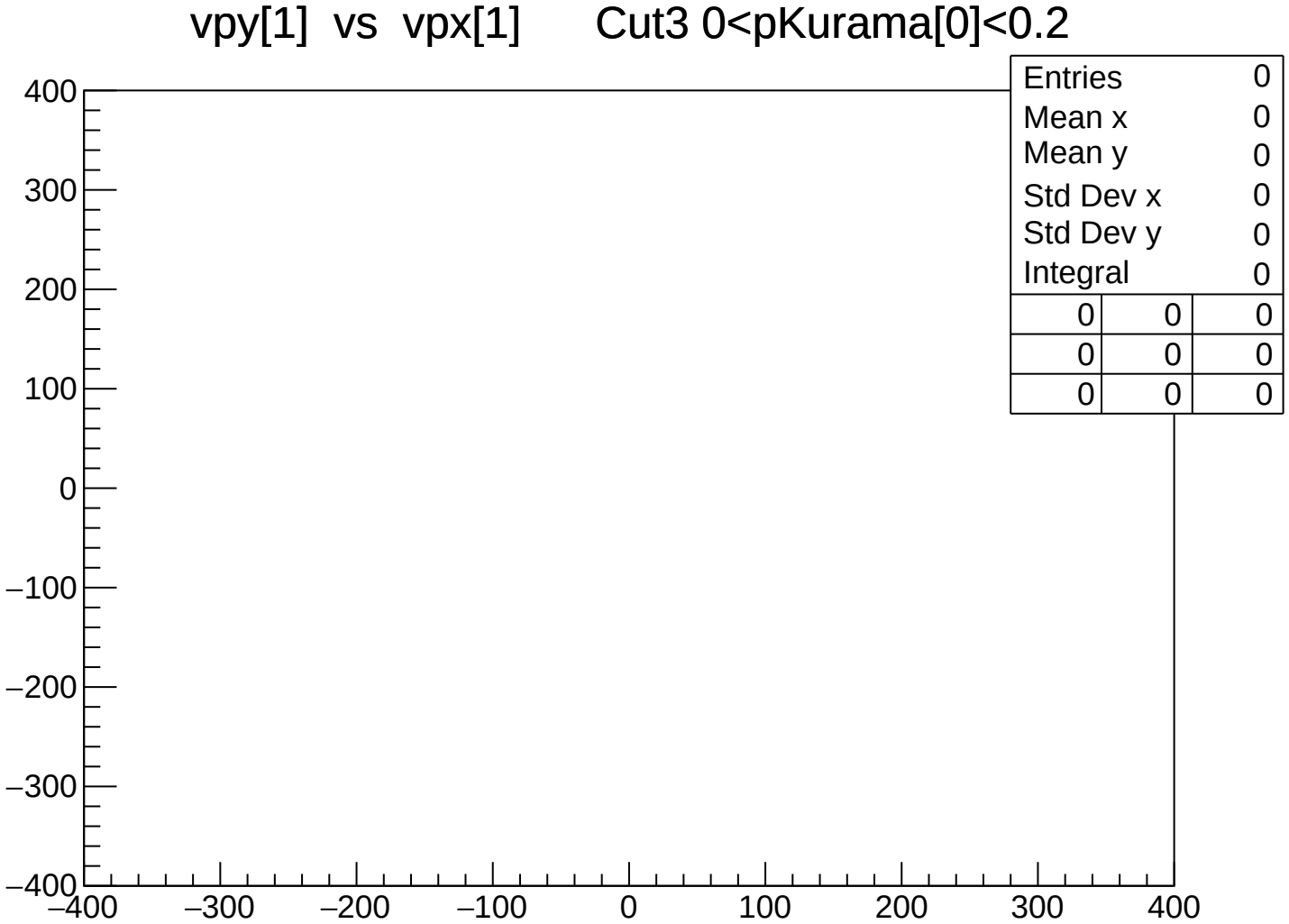

vpy[1] % vpx[1] Cut4
Entries 5271
Mean x –113
Mean y –14.89
Std Dev x 66.97
Std Dev y 63.37
Integral 5271
0 0 0
0 5271 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
20
15
10
5
0

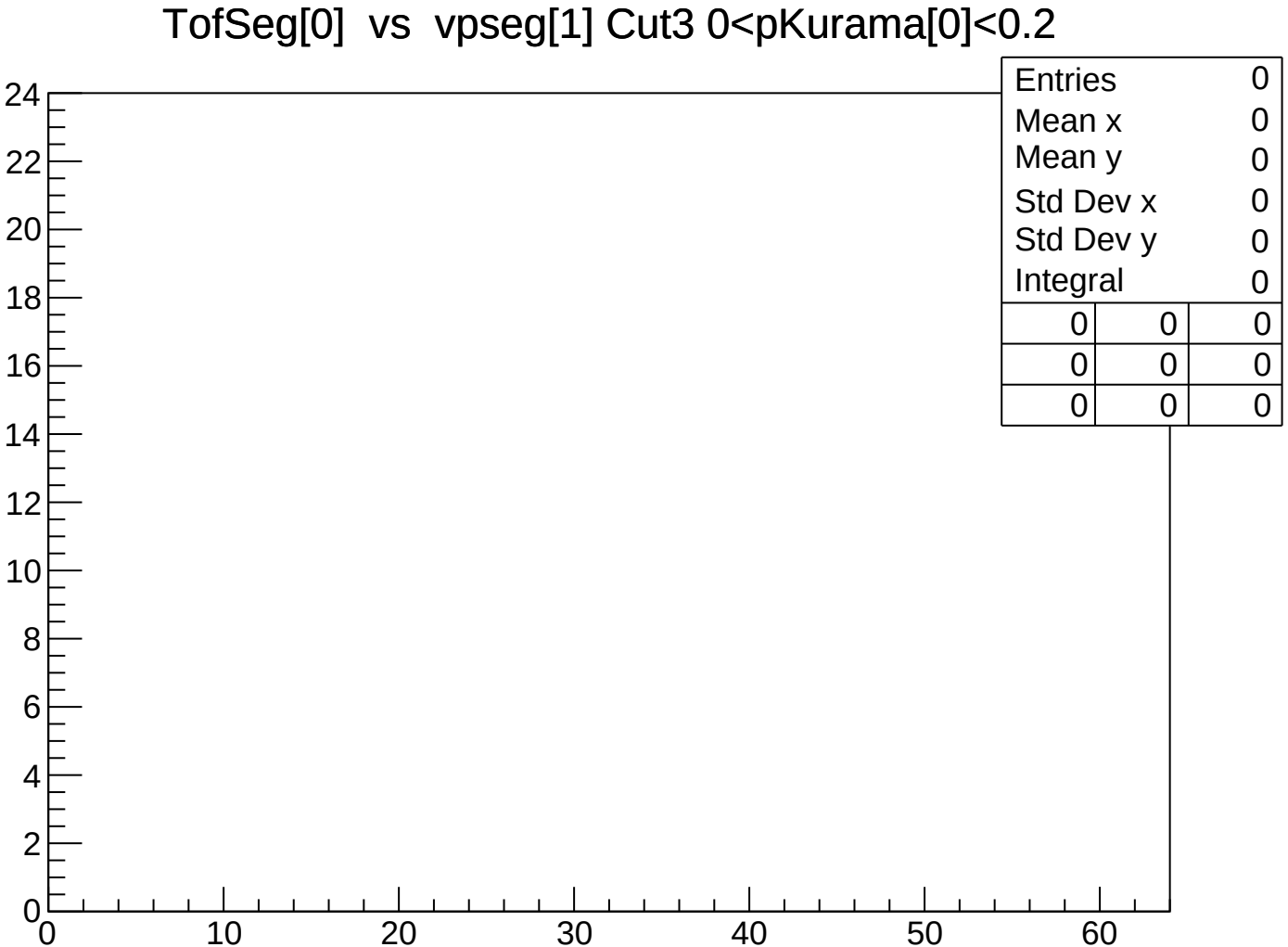

TofSeg[0] % vpseg[1] Cut4
Entries 5271
Mean x 20.03
Mean y 12.94
Std Dev x 6.368
Std Dev y 5.104
Integral 5264
0 7 0
0 5264 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30
40
50

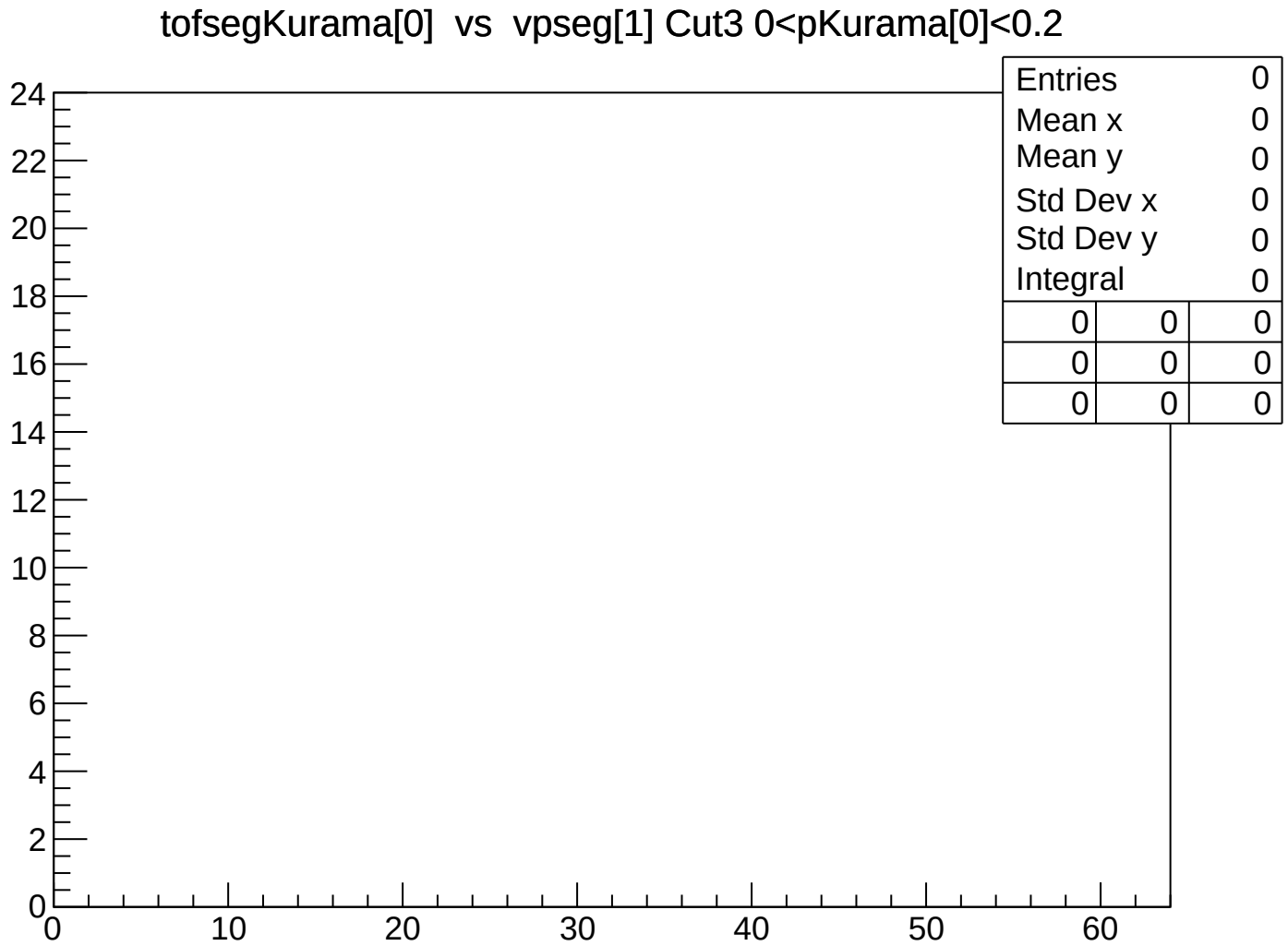

tofsegKurama[0] % vpseg[1] Cut4
Entries 5271
Mean x 20.04
Mean y 18.4
Std Dev x 6.379
Std Dev y 2.305
Integral 5270
0 0 0
0 5270 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60
80
100

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

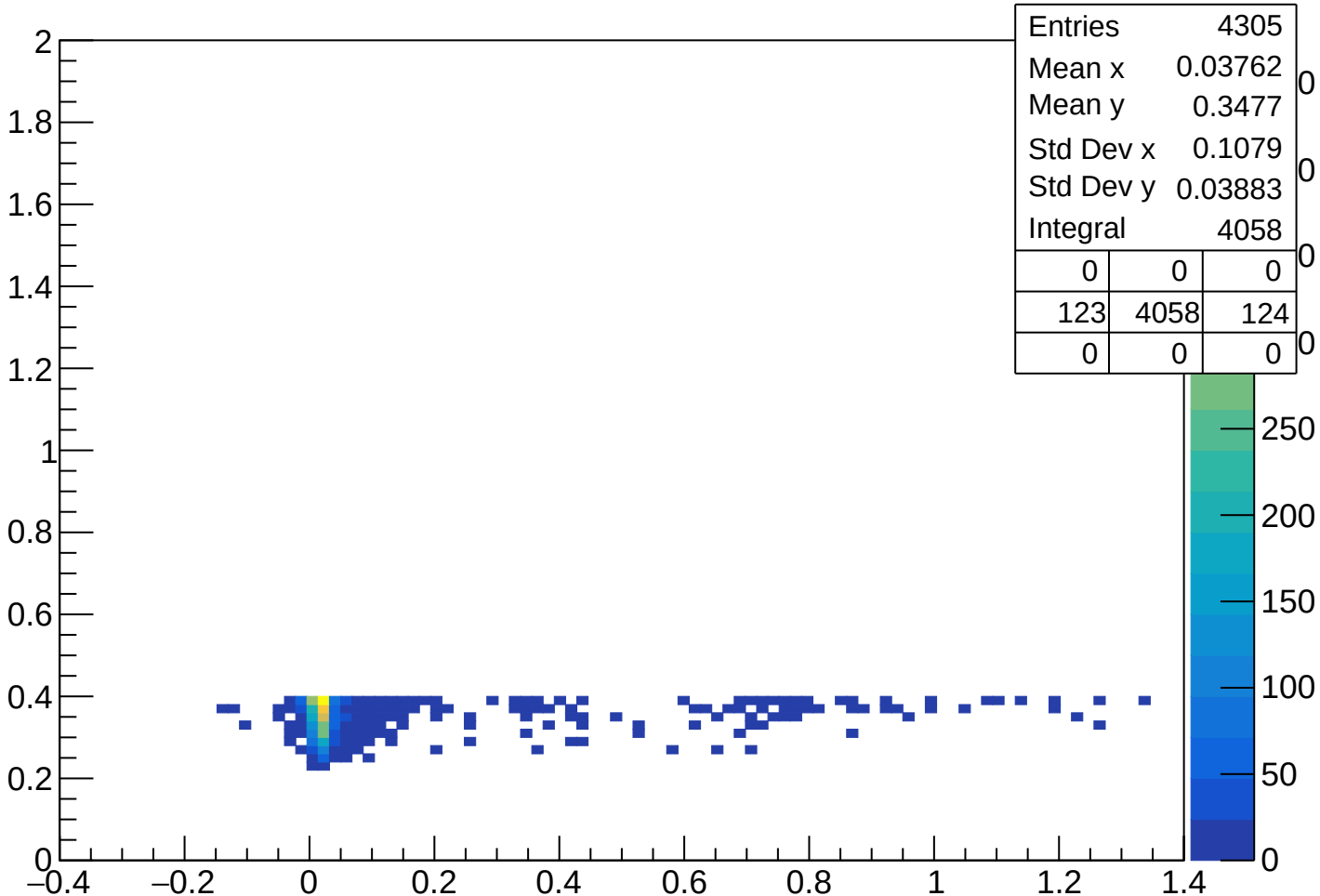


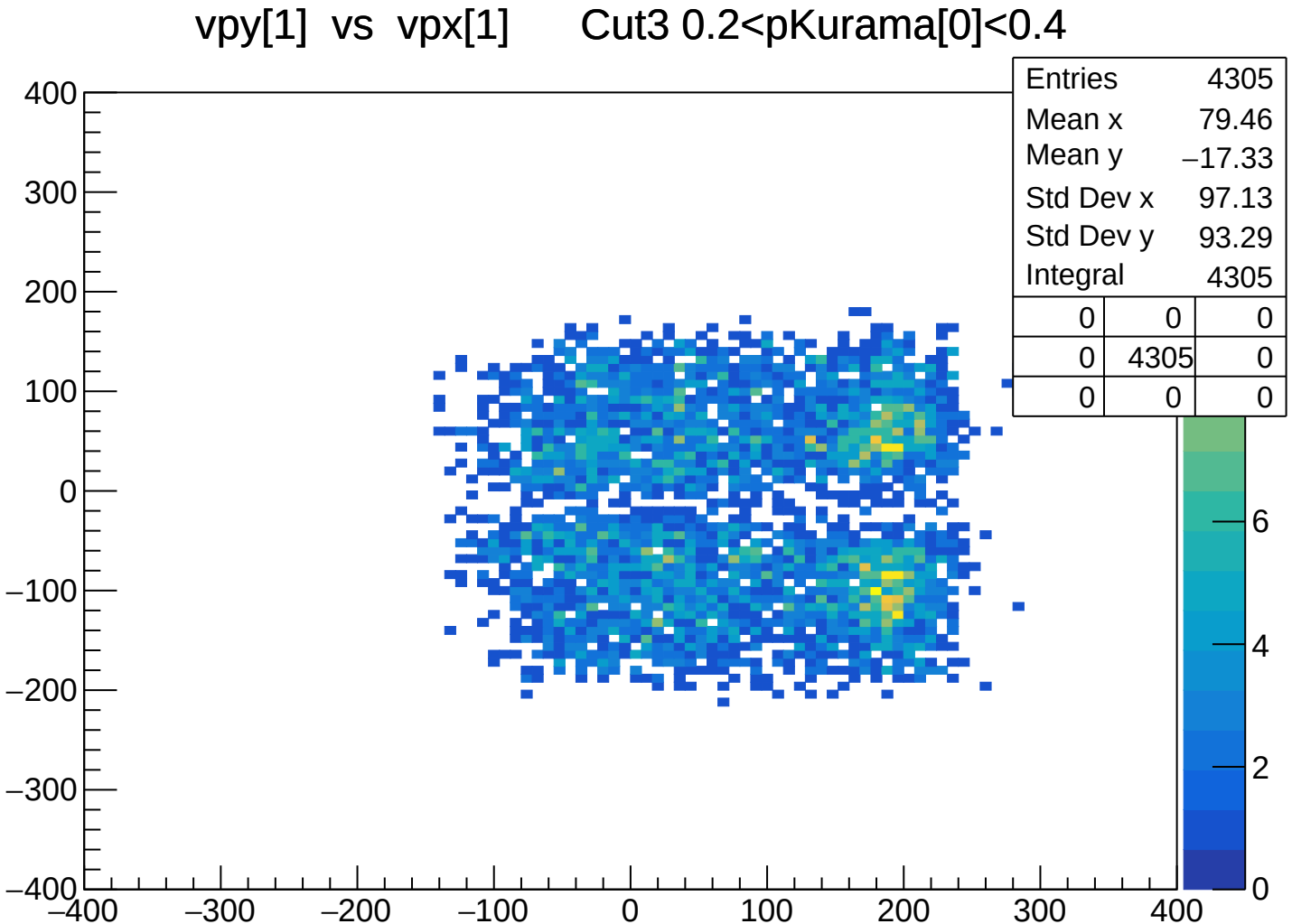

vpy[1] vs vpx[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

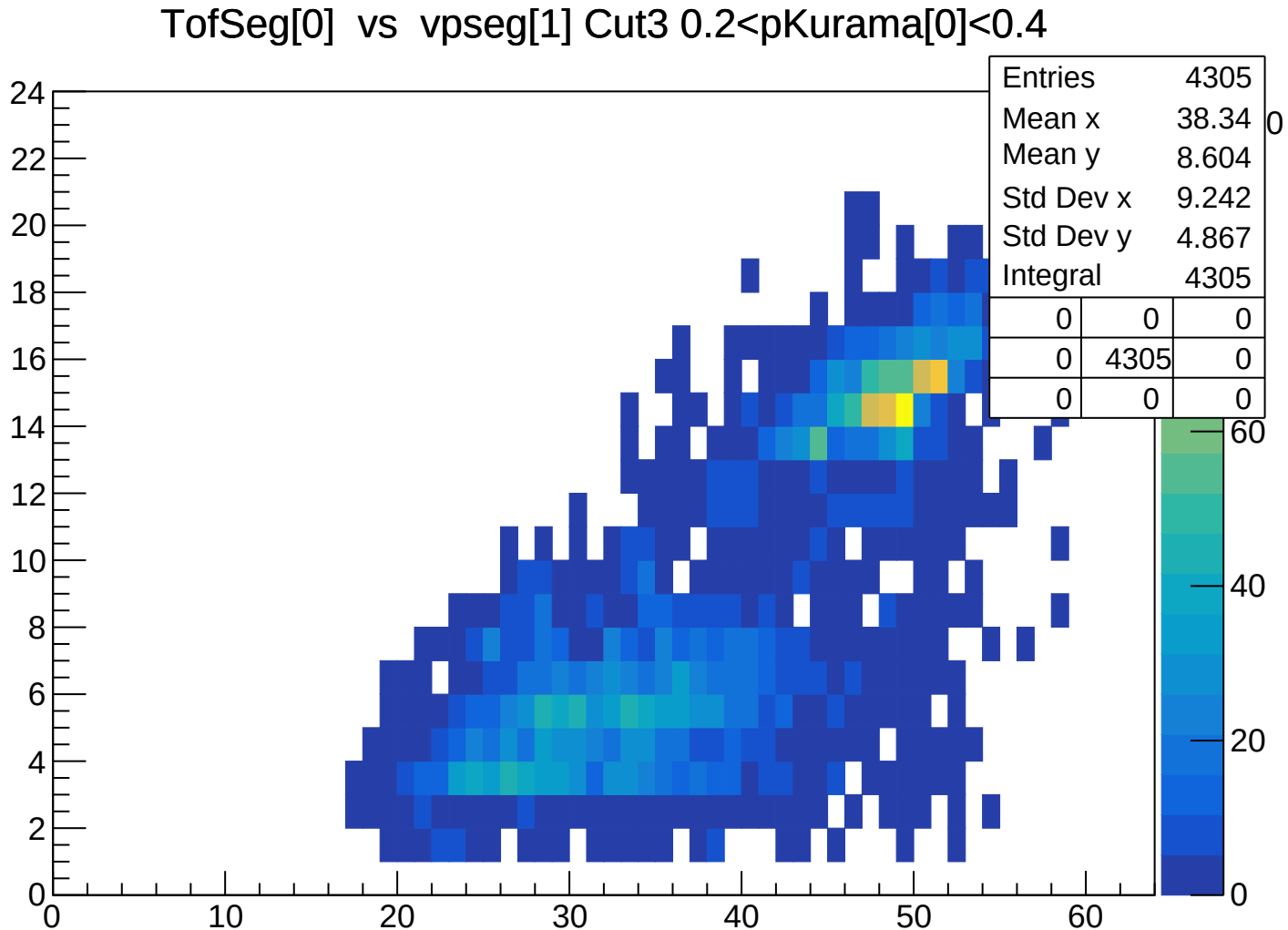

TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

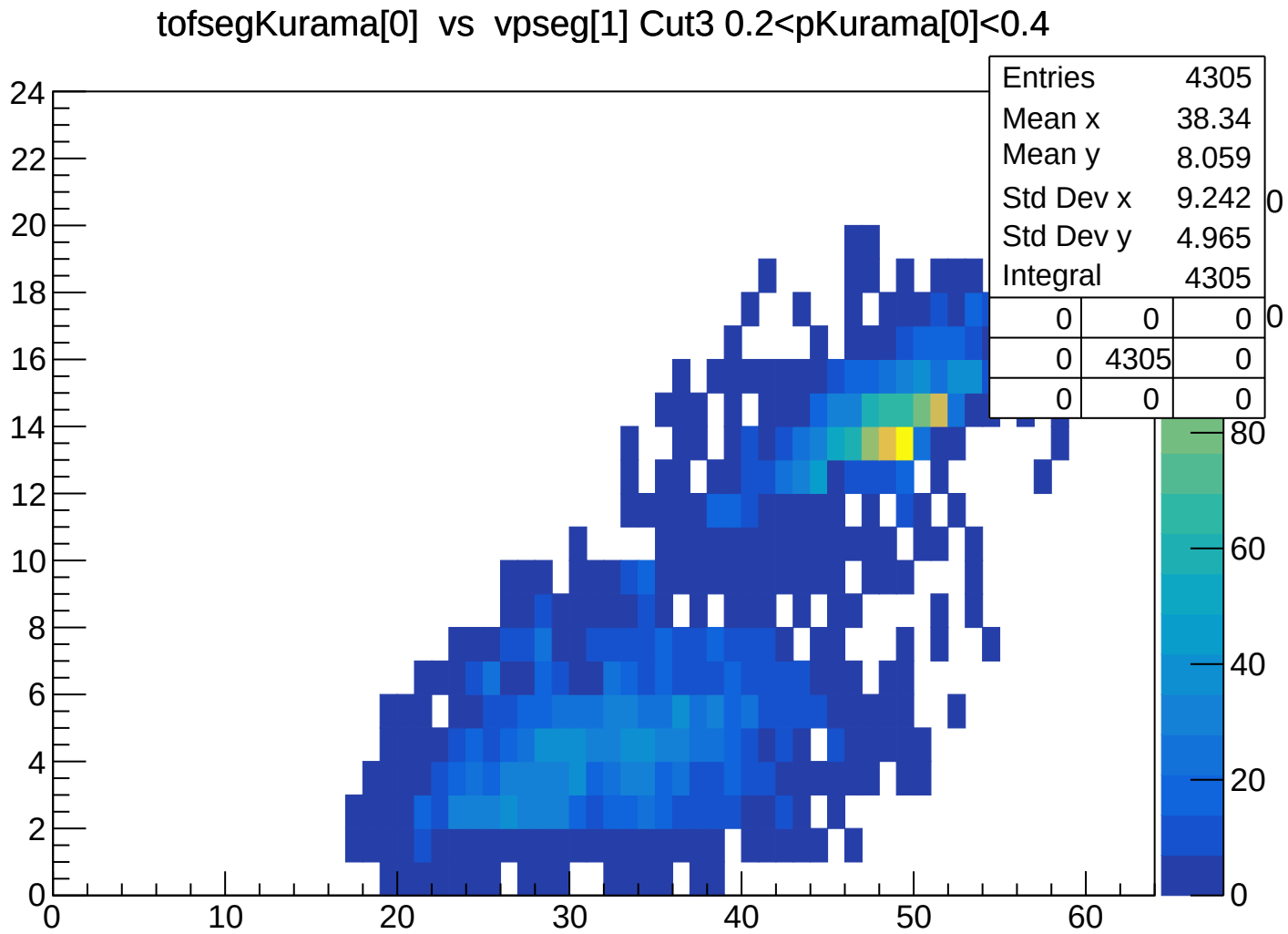

tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

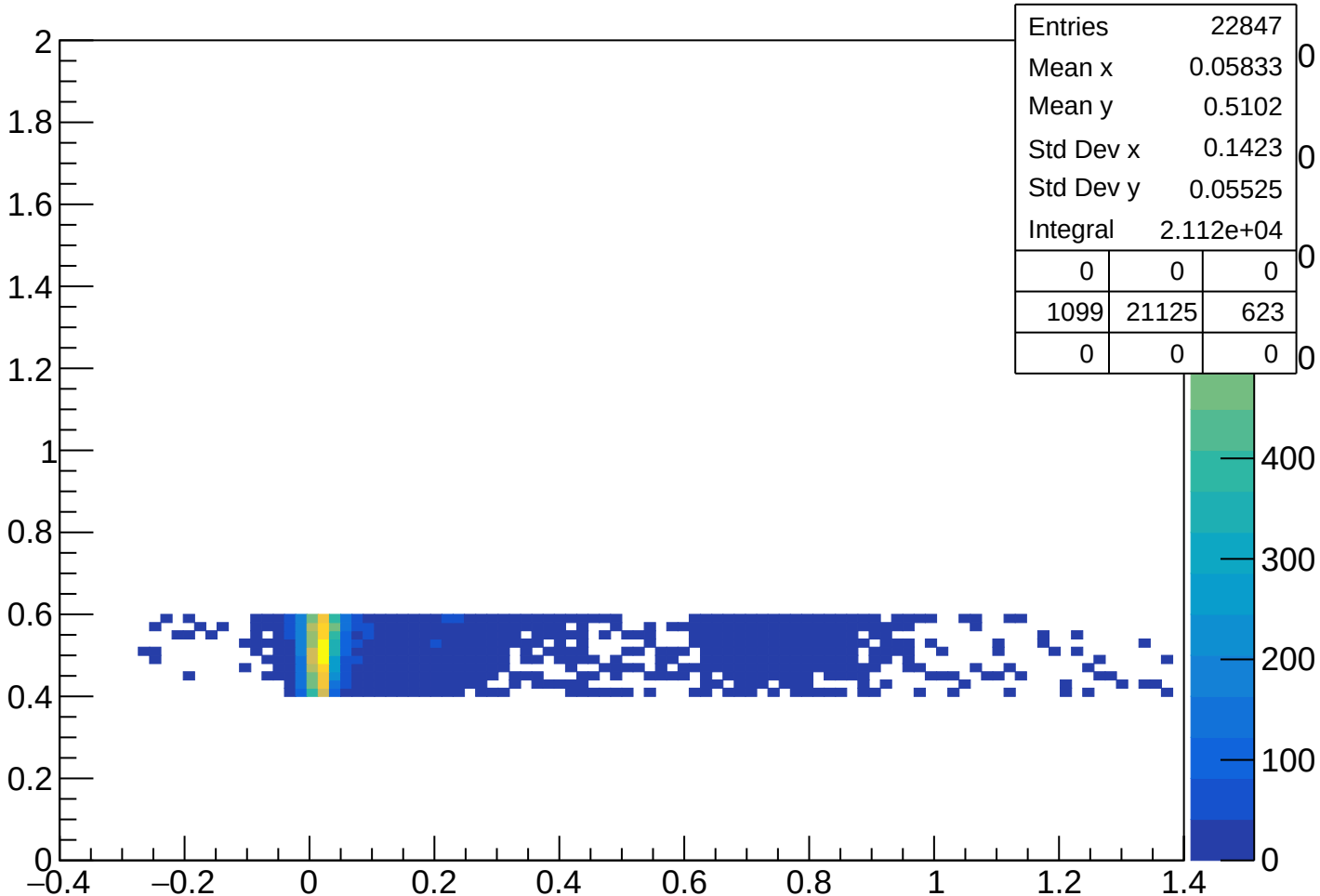


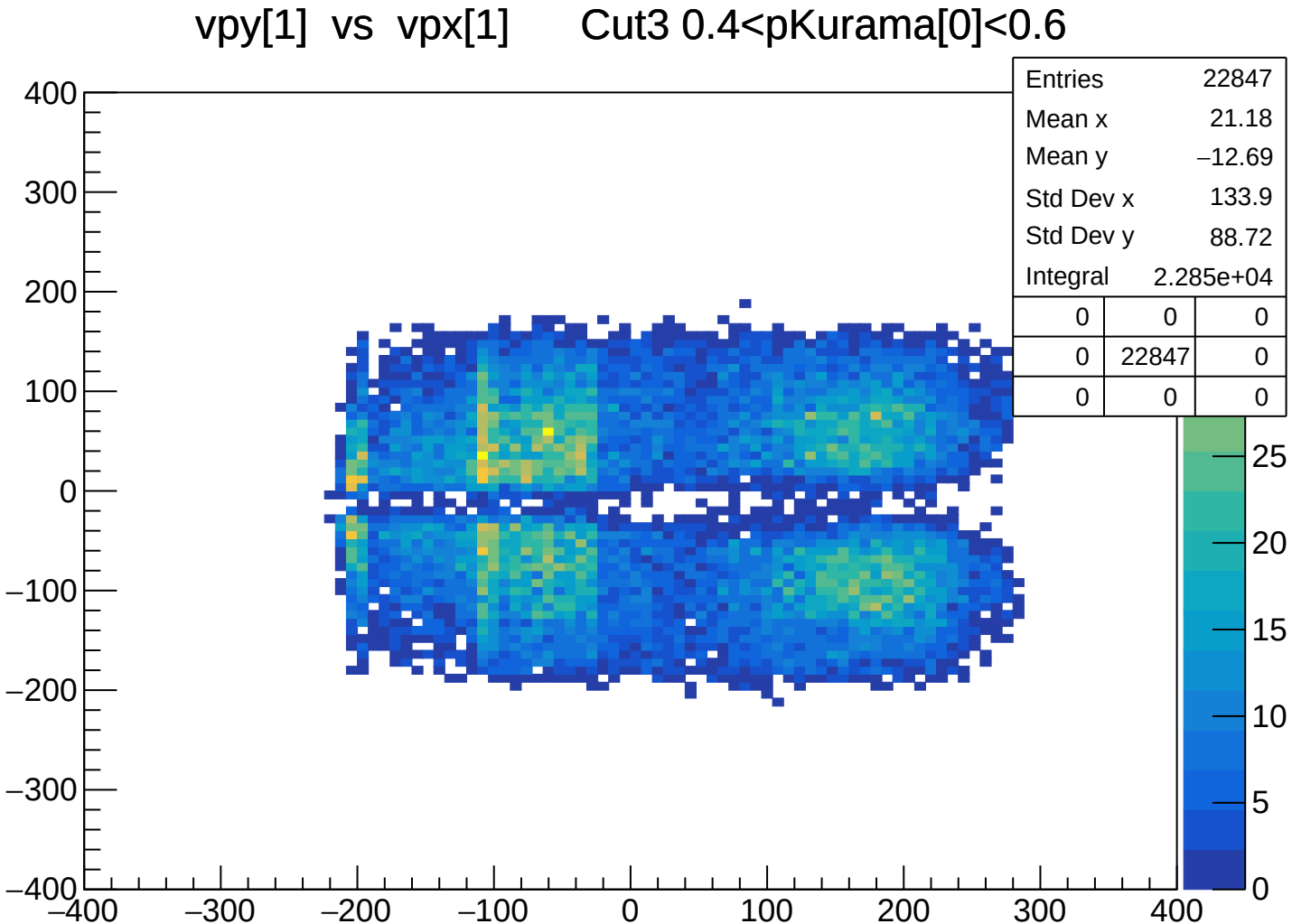

vpy[1] vs vpx[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 79.46
Mean y −17.33
Std Dev x 97.13
Std Dev y 93.29
Integral 4305
0 0 0
0 4305 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
6
4
2
0

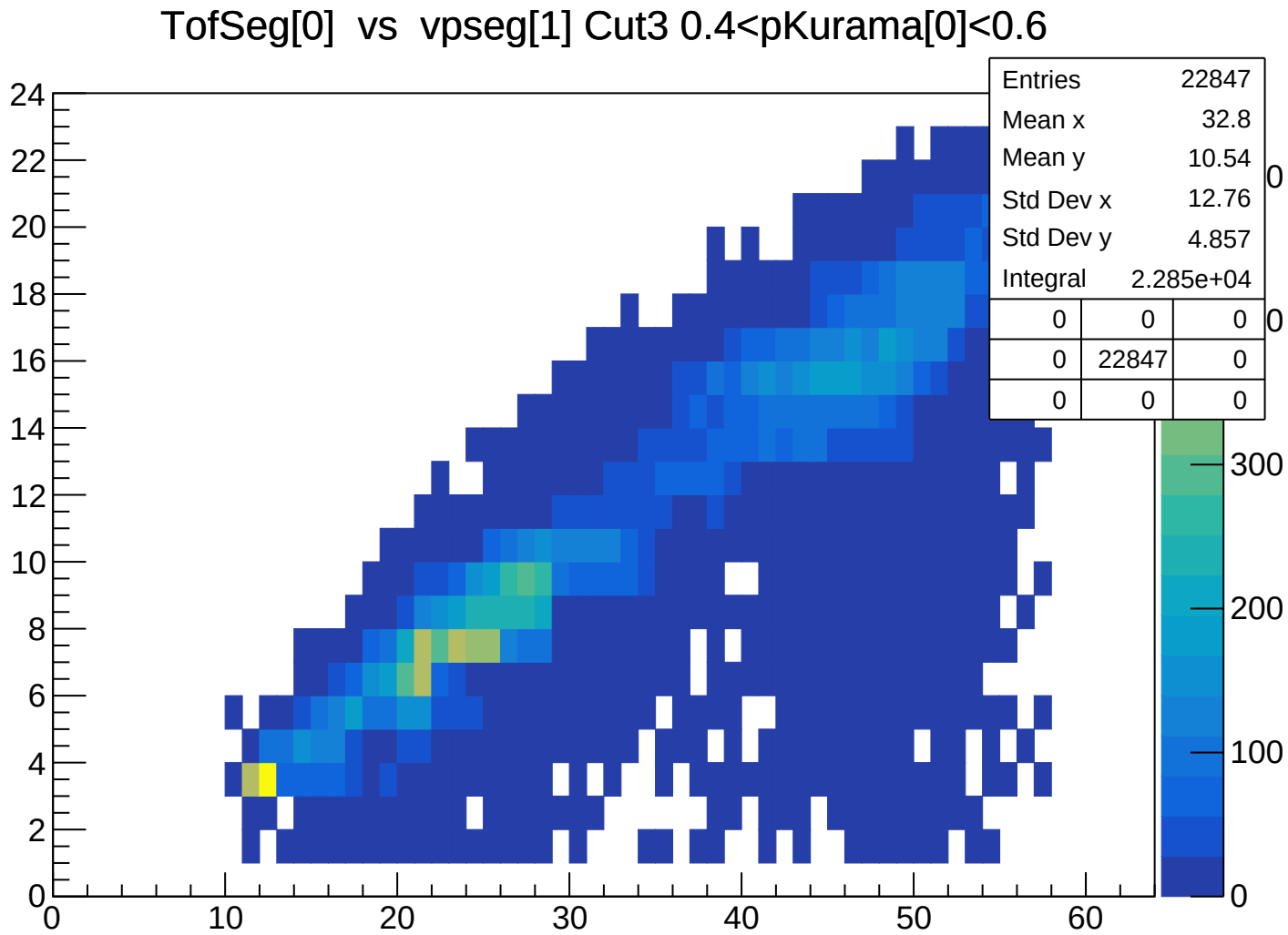

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 38.34
Mean y 8.604
Std Dev x 9.242
Std Dev y 4.867
Integral 4305
0 0 0
0 4305 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60

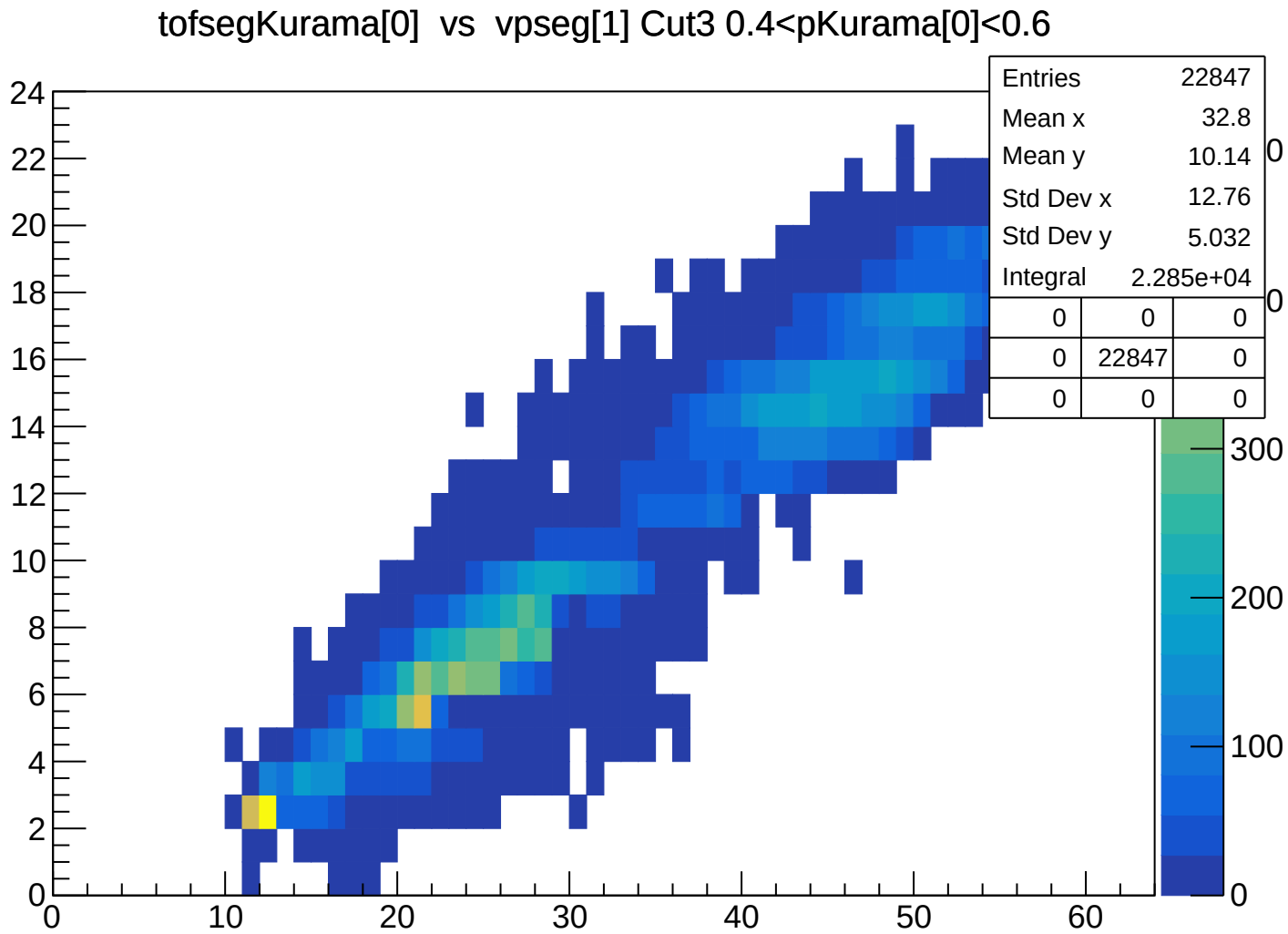

tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 38.34
Mean y 8.059
Std Dev x 9.242
Std Dev y 4.965
Integral 4305
0 0 0
0 4305 0
0 0 0
0
0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60
80

pKurama vs m2 Cut3 0.4<pKurama[0]<0.6

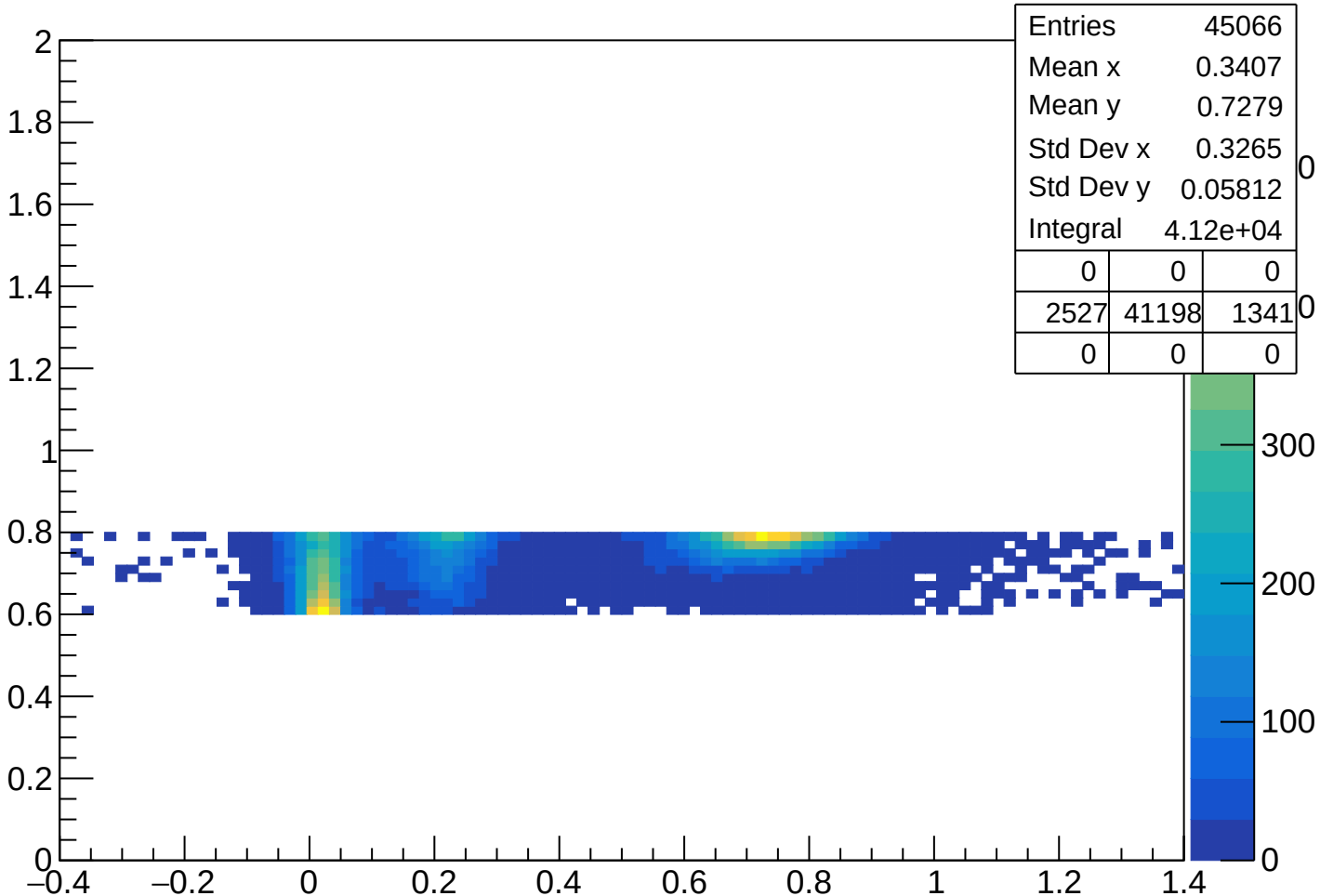


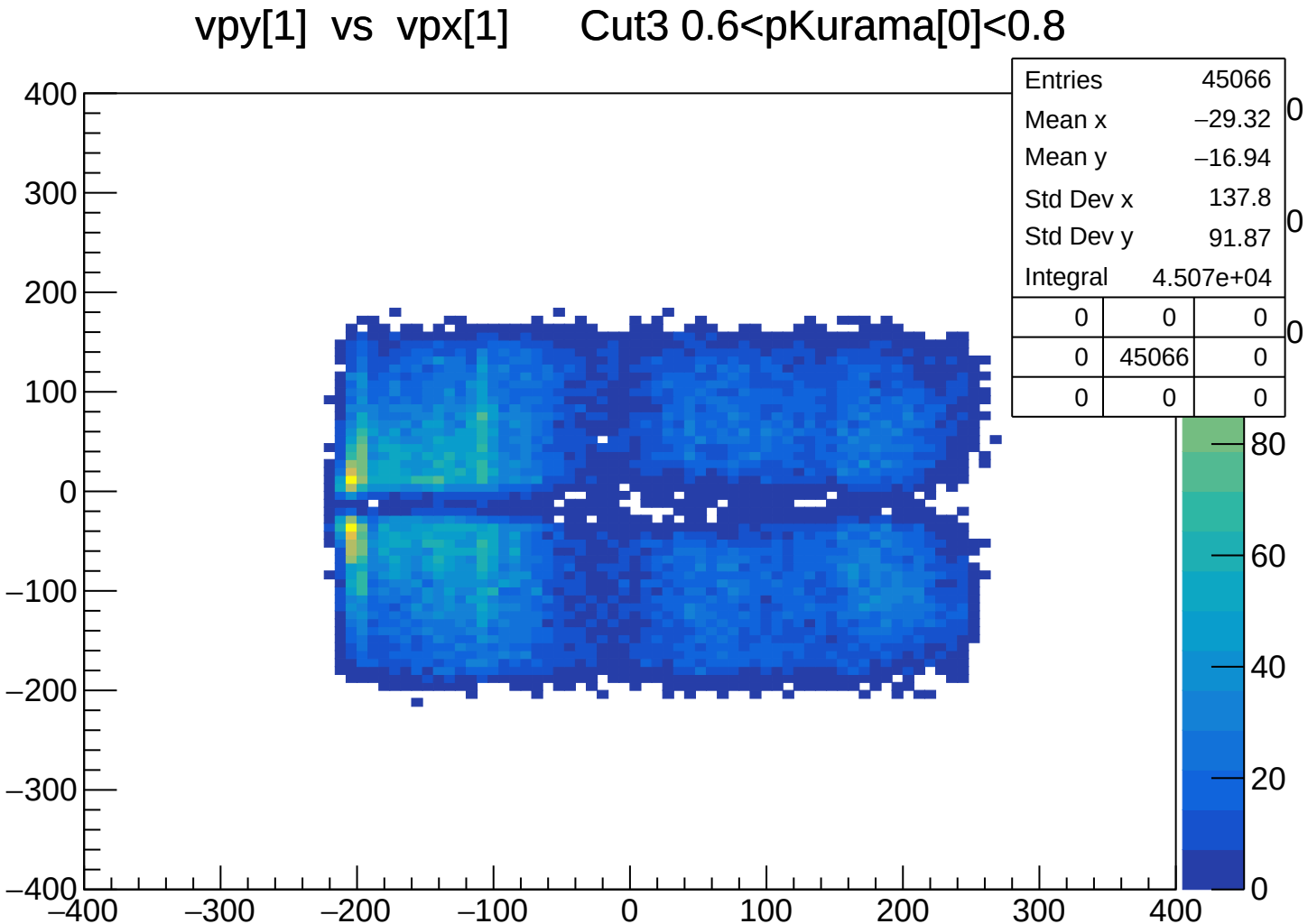

vpy[1] vs vpx[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 21.18
Mean y –12.69
Std Dev x 133.9
Std Dev y 88.72
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
25
20
15
10
5
0

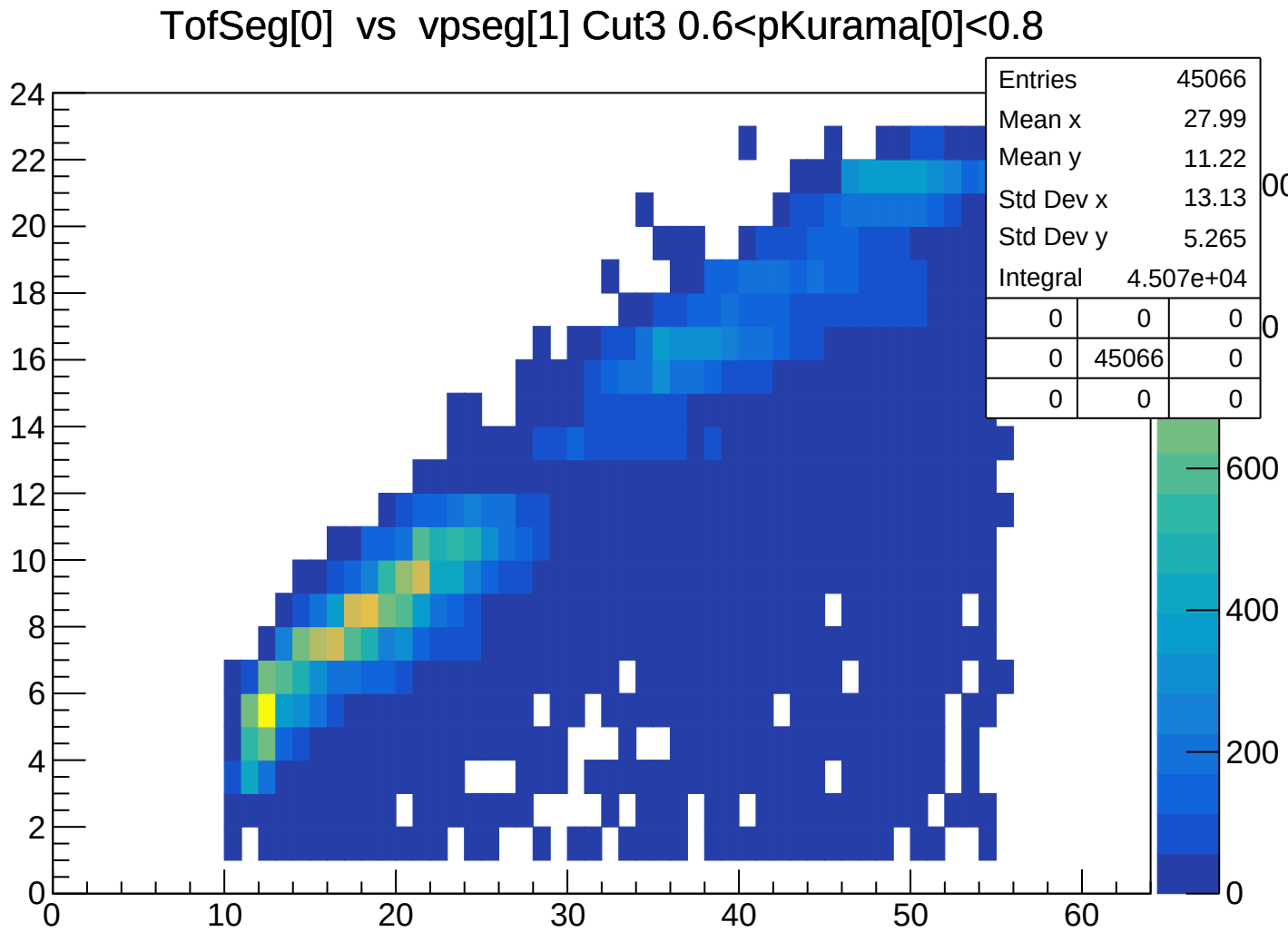

TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 32.8
Mean y 10.54
Std Dev x 12.76
Std Dev y 4.857
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
100
200
300

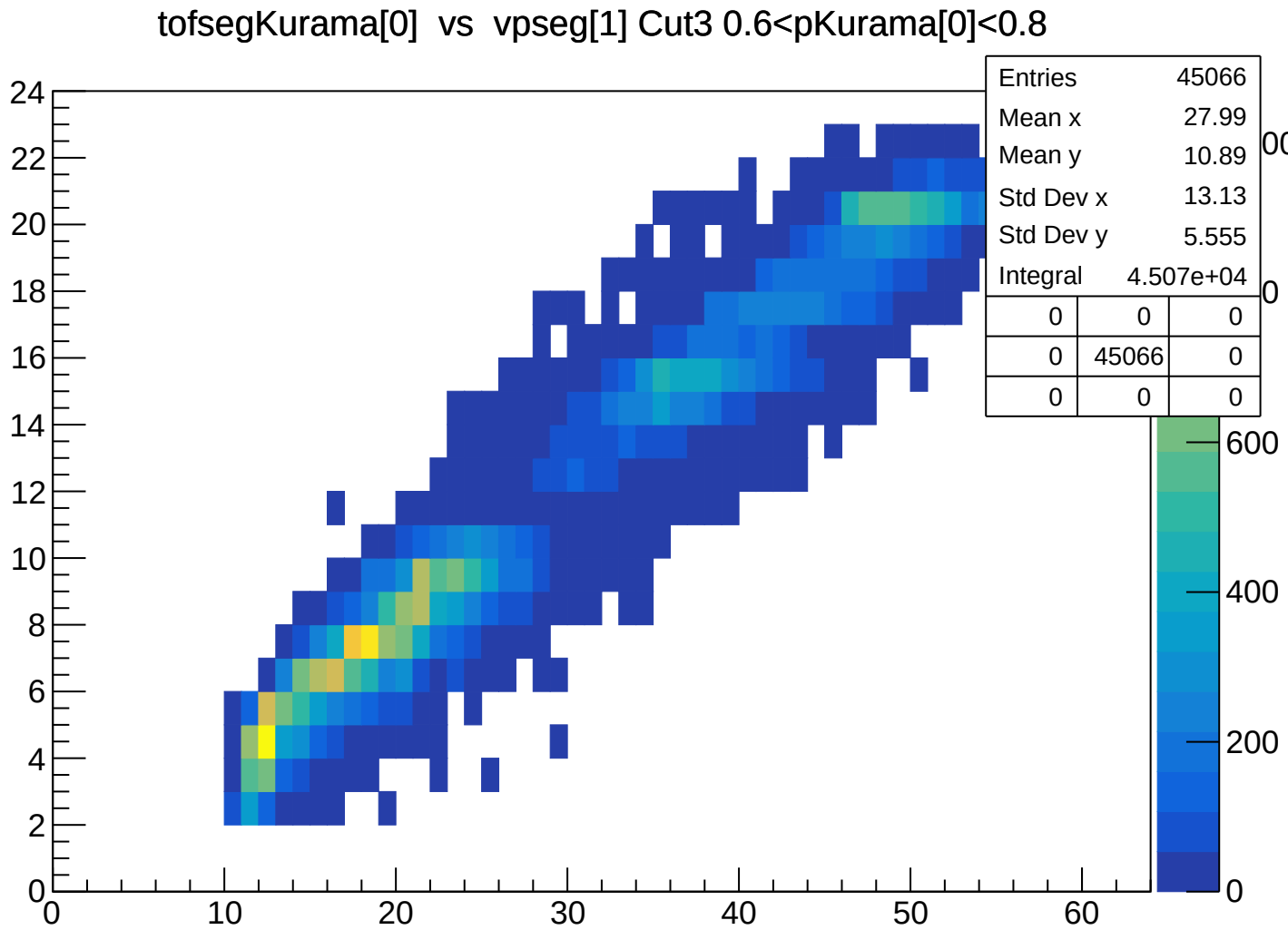

tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 32.8
Mean y 10.14
Std Dev x 12.76
Std Dev y 5.032
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
100
200
300

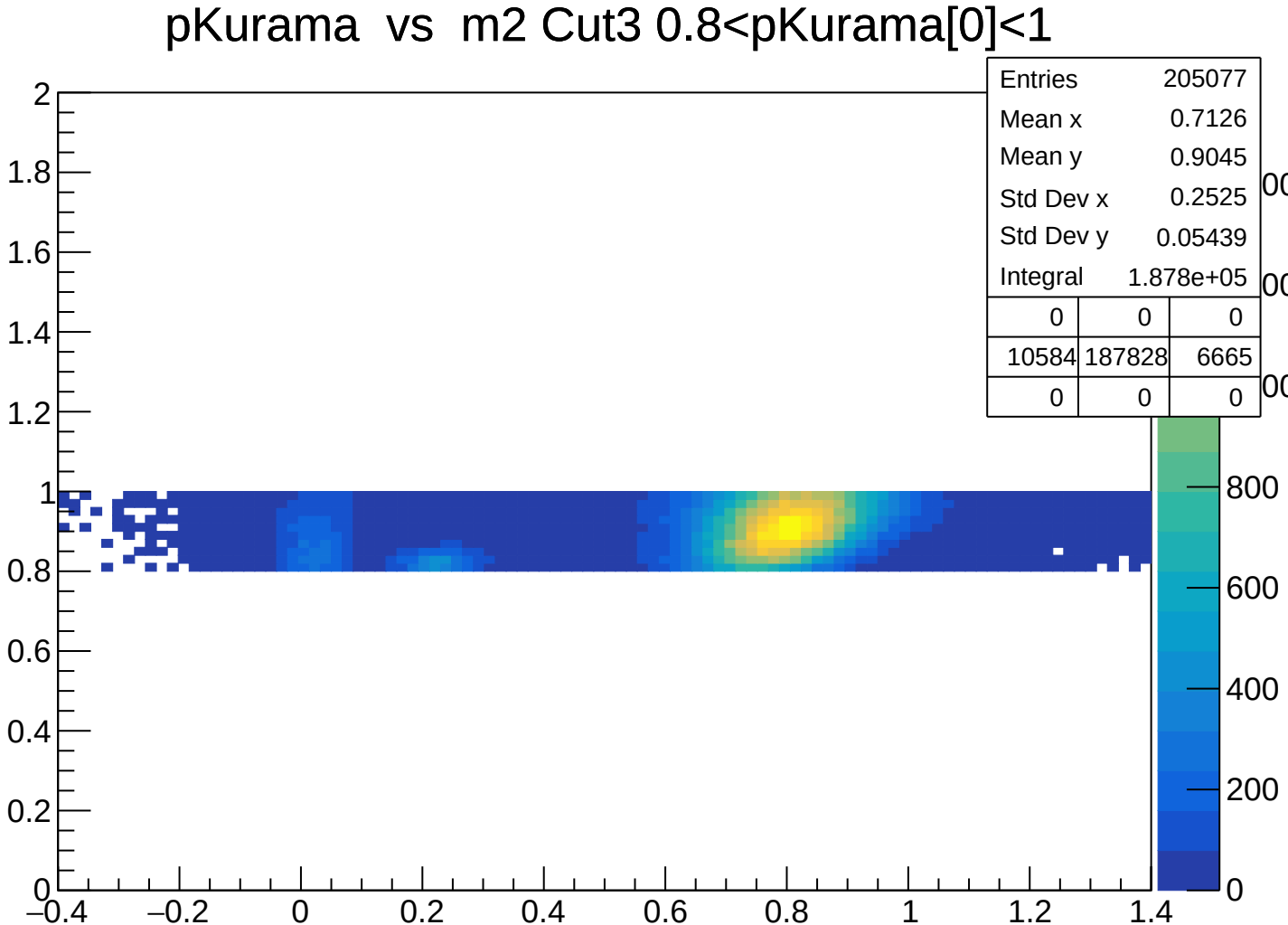
pKurama vs m2 Cut3 0.6<pKurama[0]<0.8

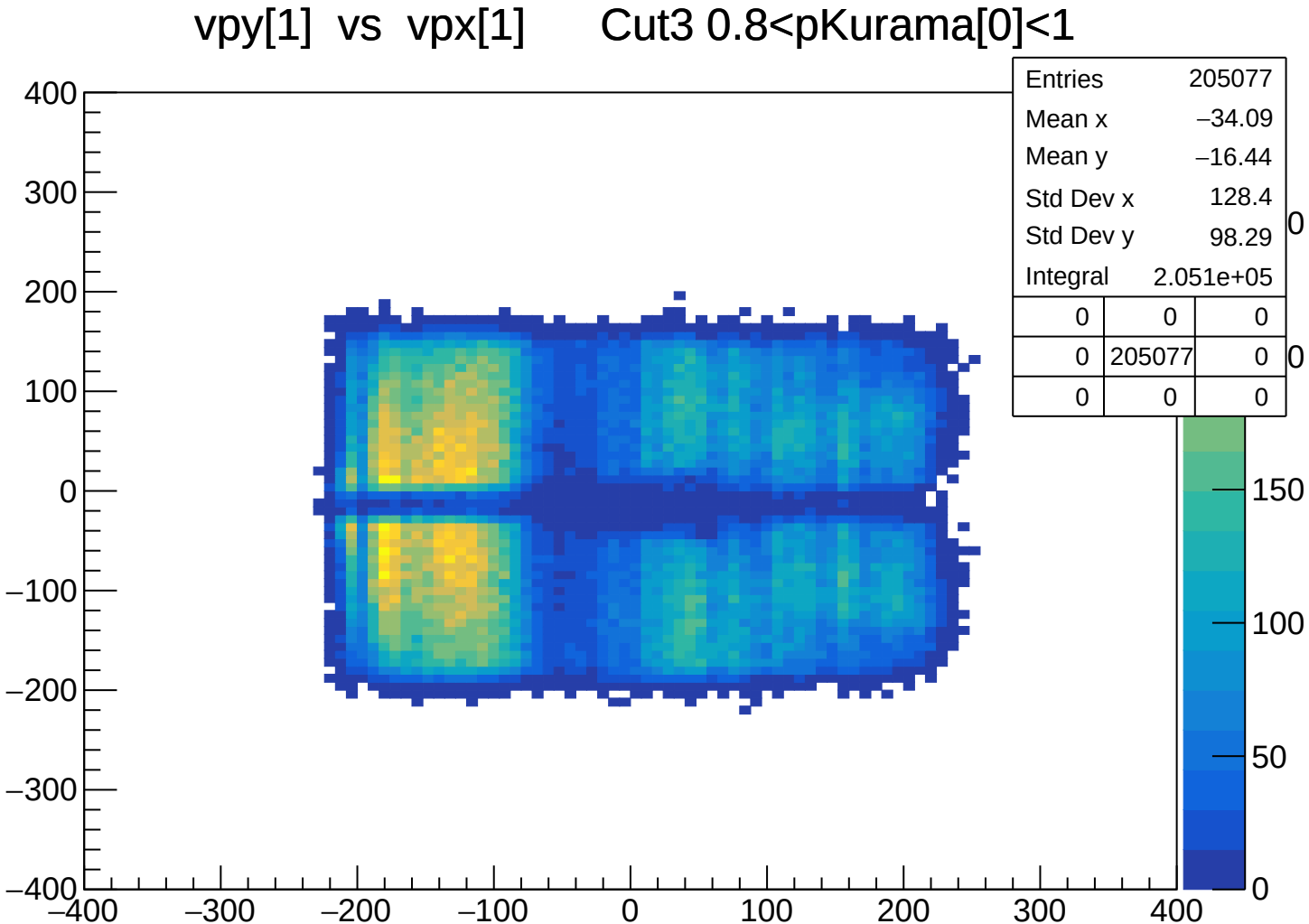


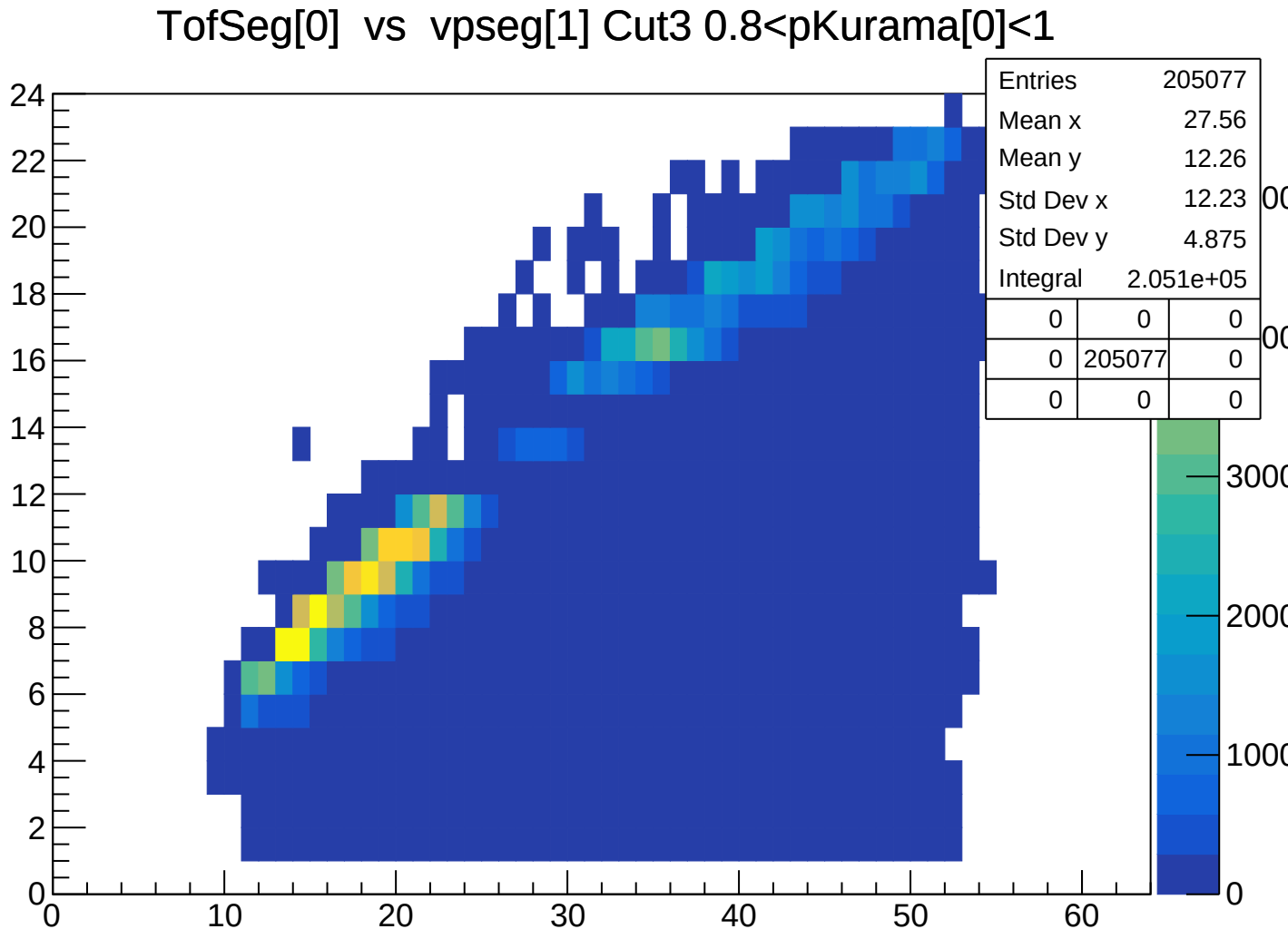

vpy[1] vs vpx[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x −29.32
Mean y −16.94
Std Dev x 137.8
Std Dev y 91.87
Integral 4.507e+04
0 0 0
0 45066 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
80
60
40
20
0

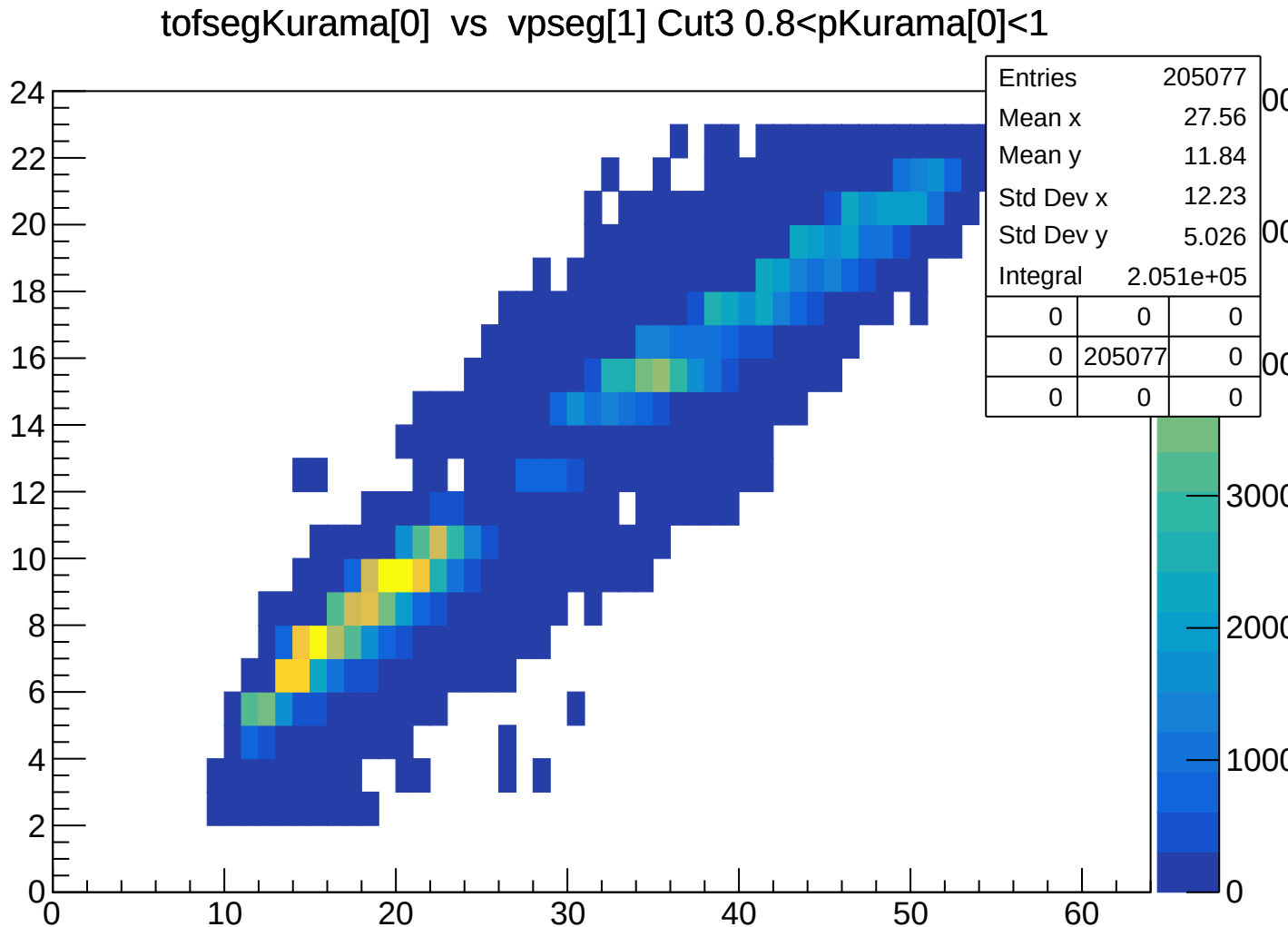

TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x 27.99
Mean y 11.22
Std Dev x 13.13
Std Dev y 5.265
Integral 4.507e+04
0 0 0
0 45066 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
200
400
600


tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x 27.99
Mean y 10.89
Std Dev x 13.13
Std Dev y 5.555
Integral 4.507e+04
0 0 0
0 45066 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

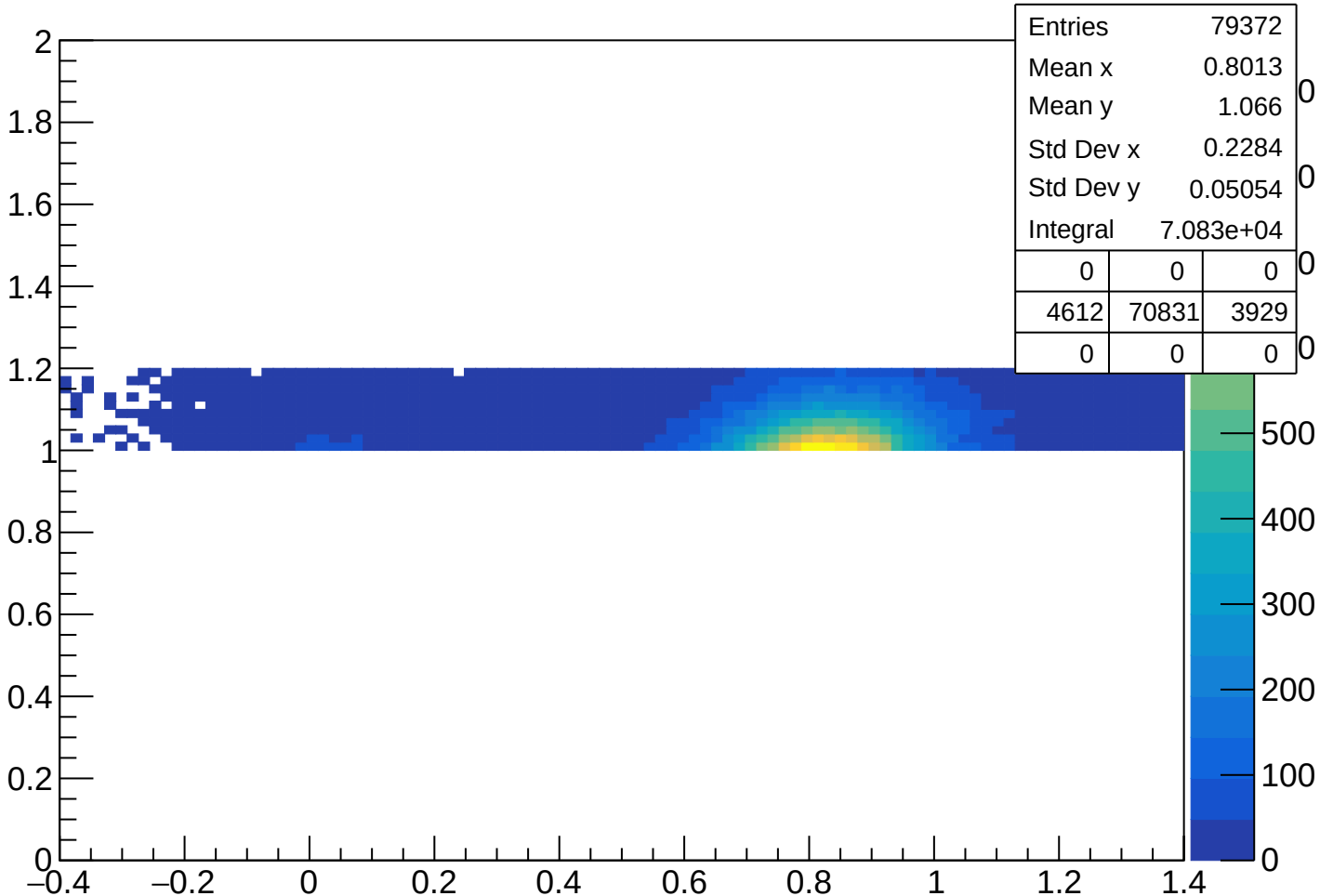

pKurama vs m2 Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x 0.7126
Mean y 0.9045
Std Dev x 0.2525
Std Dev y 0.05439
Integral 1.878e+05
0 0 0
10584 187828 6665
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
800
600
400
200
0

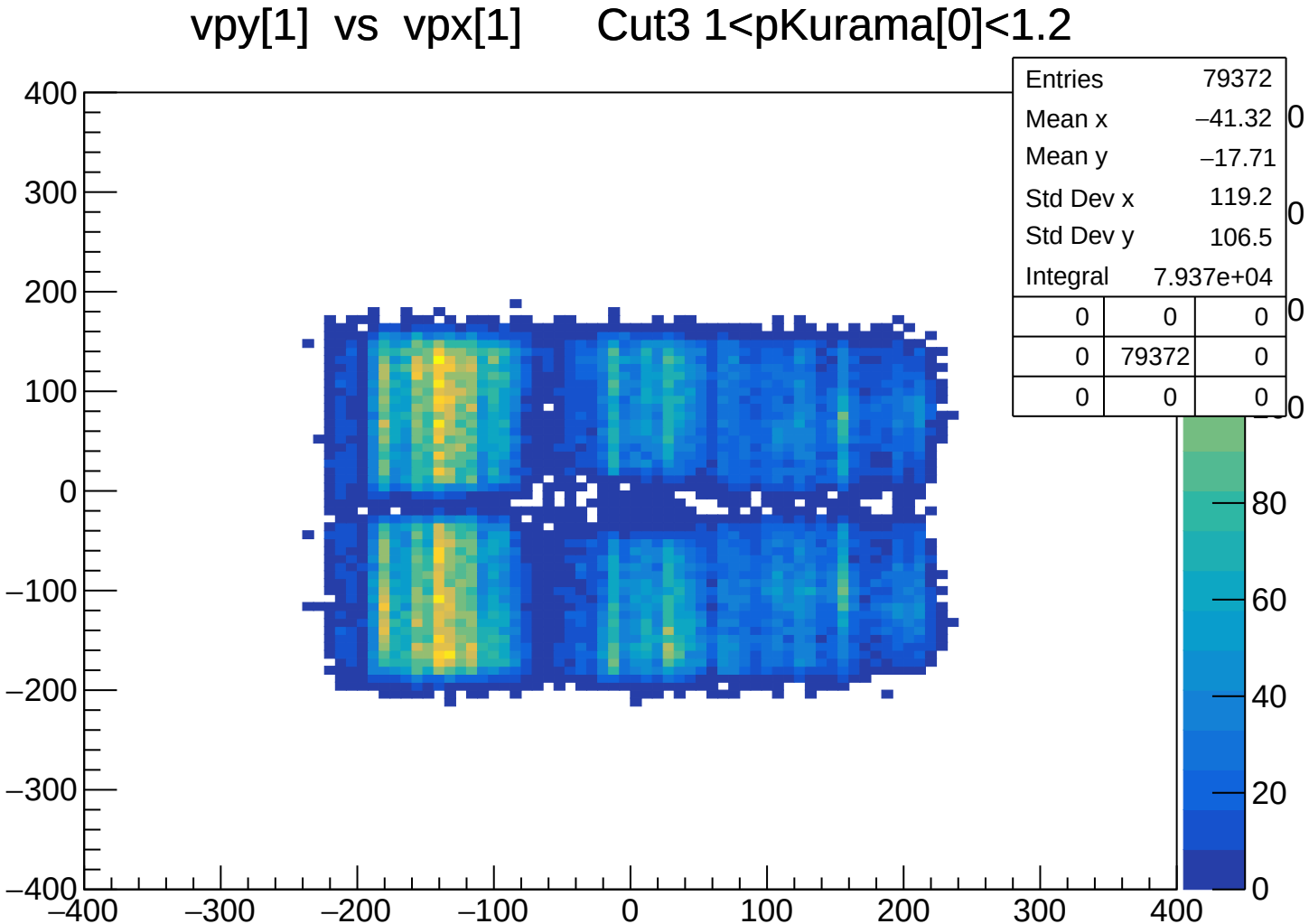

vpy[1] vs vpx[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x –34.09
Mean y –16.44
Std Dev x 128.4
Std Dev y 98.29
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
150
100
50
0

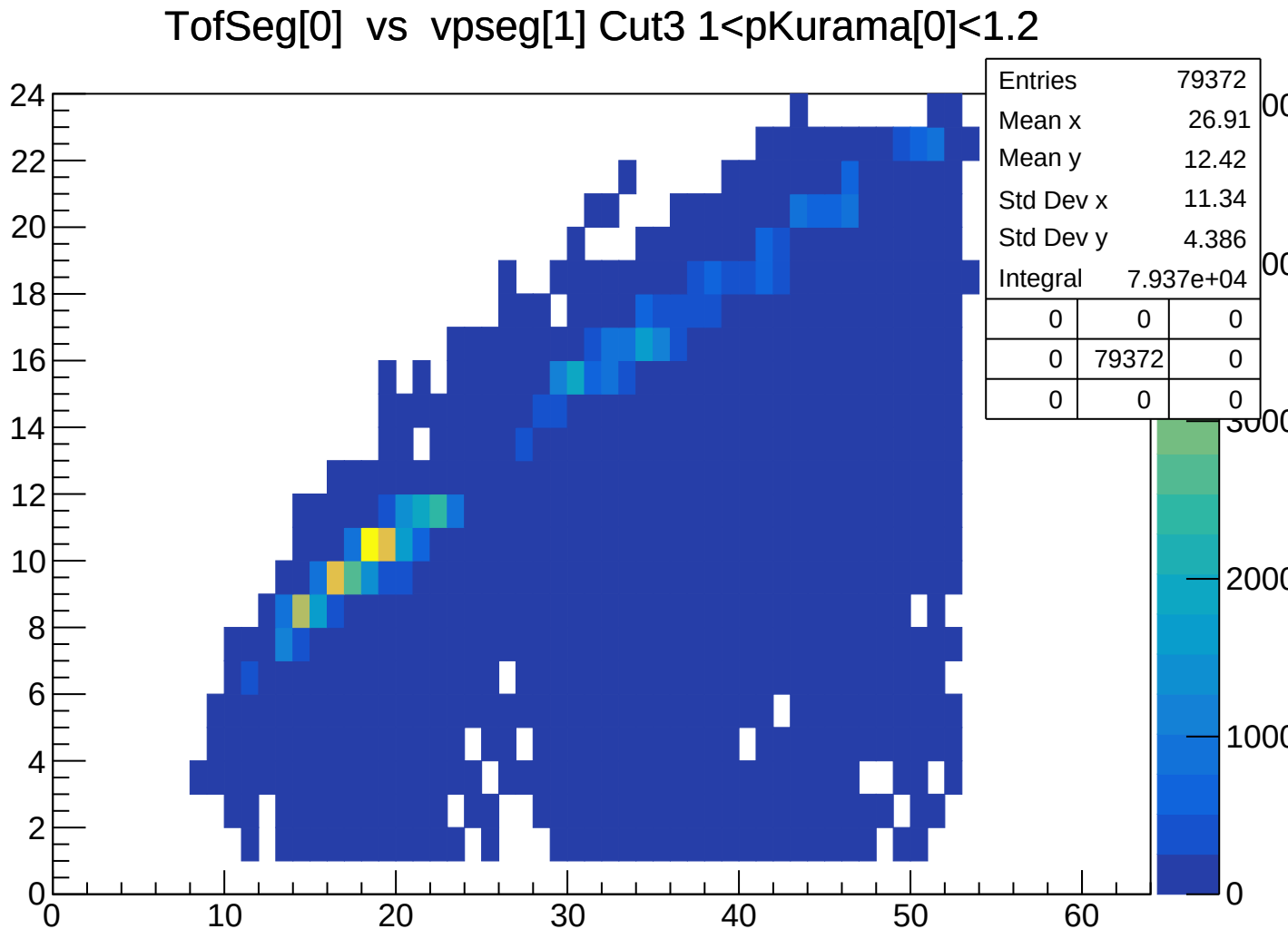

TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x 27.56
Mean y 12.26
Std Dev x 12.23
Std Dev y 4.875
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000

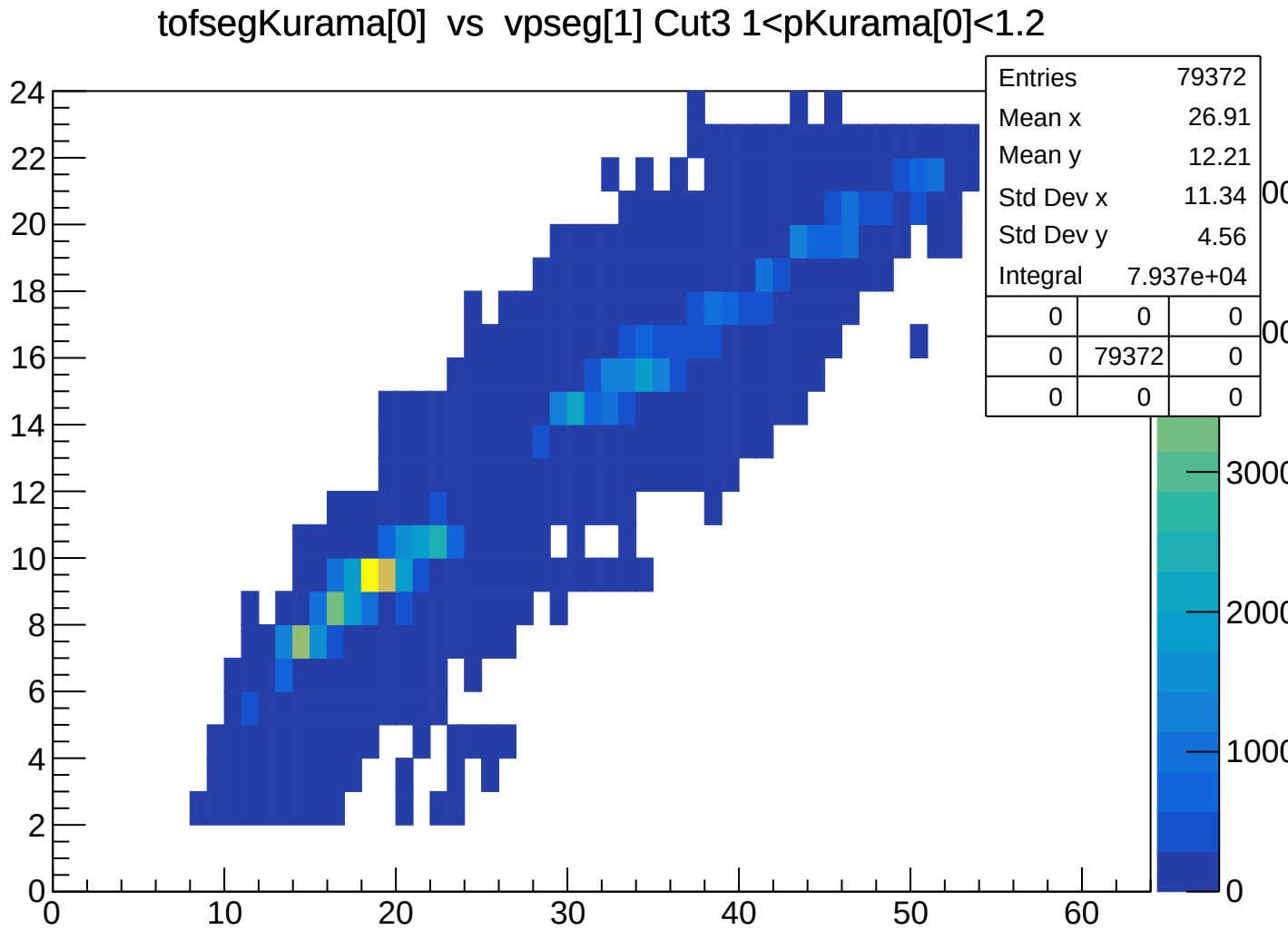

tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x 27.56
Mean y 11.84
Std Dev x 12.23
Std Dev y 5.026
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000

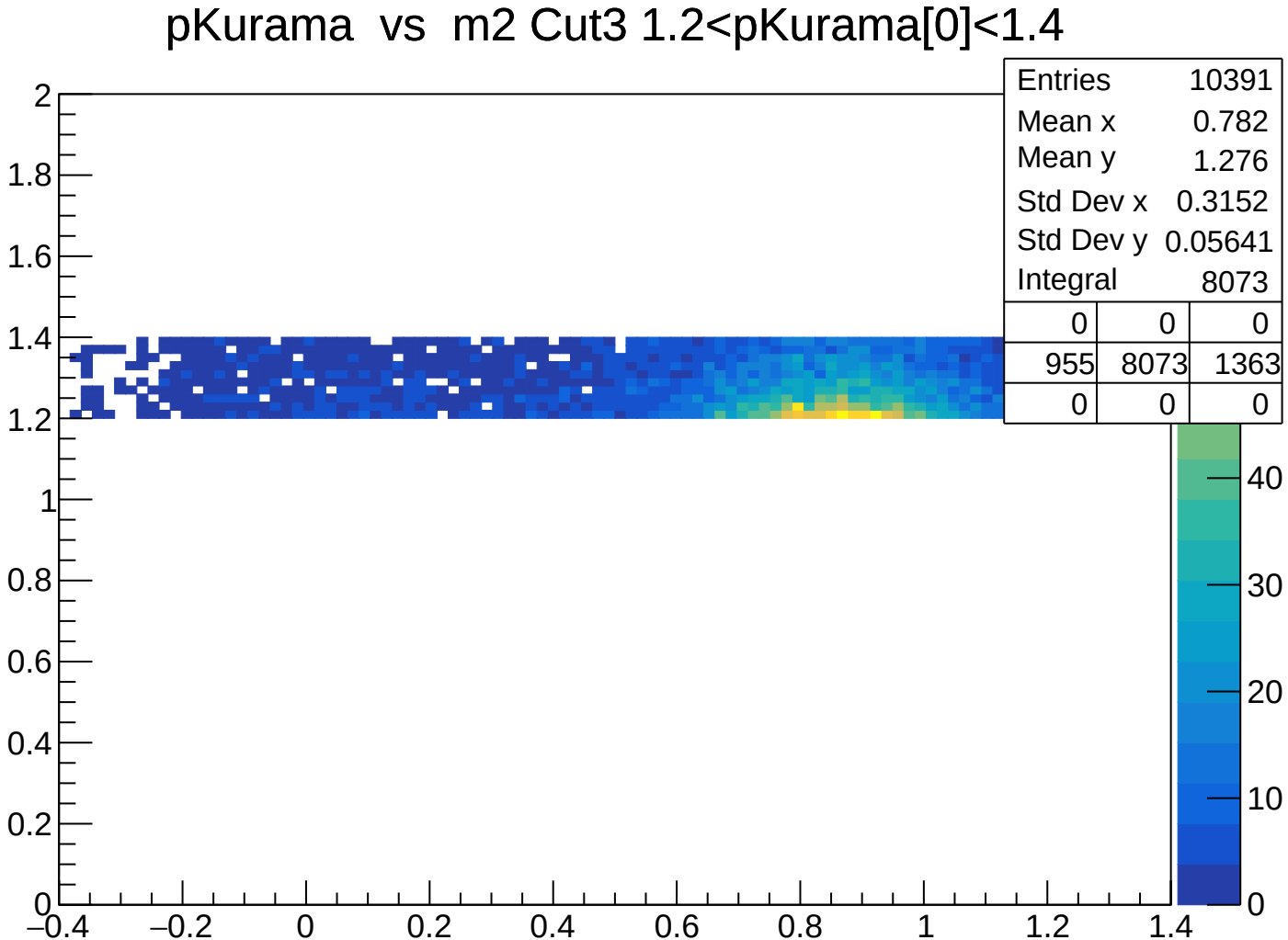
pKurama vs m2 Cut3 1<pKurama[0]<1.2

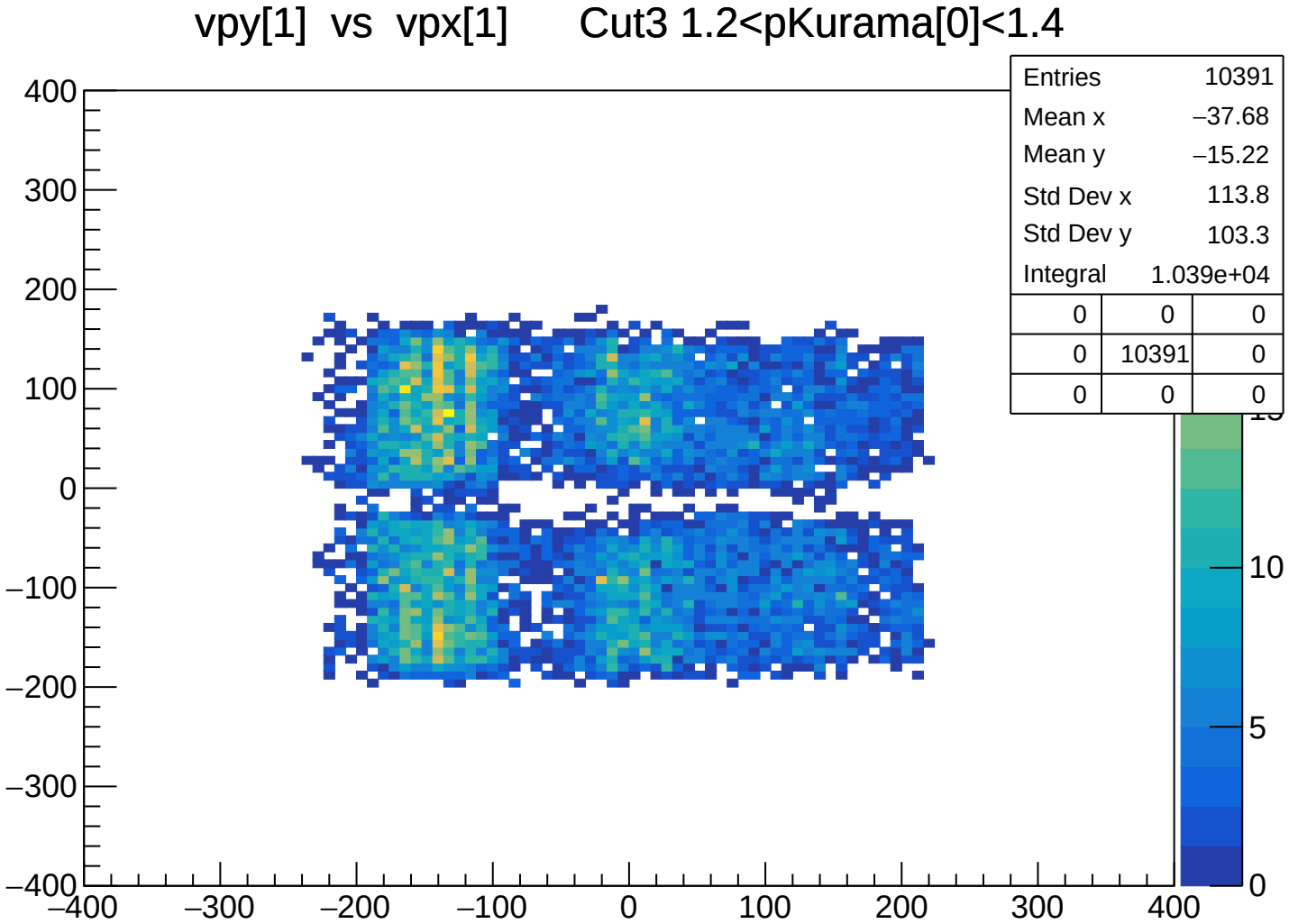


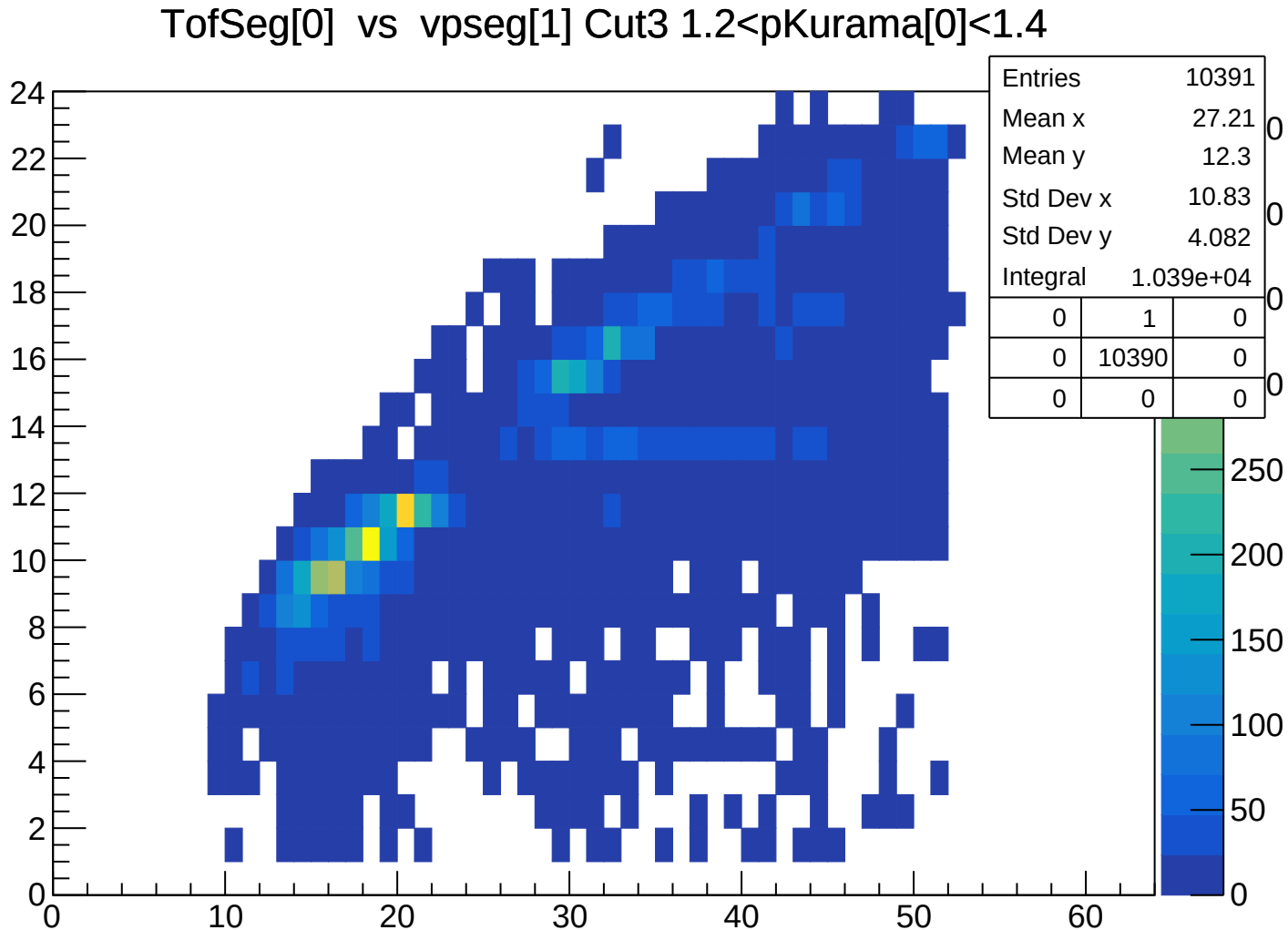

vpy[1] vs vpx[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x –41.32
Mean y –17.71
Std Dev x 119.2
Std Dev y 106.5
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
80
60
40
20
0

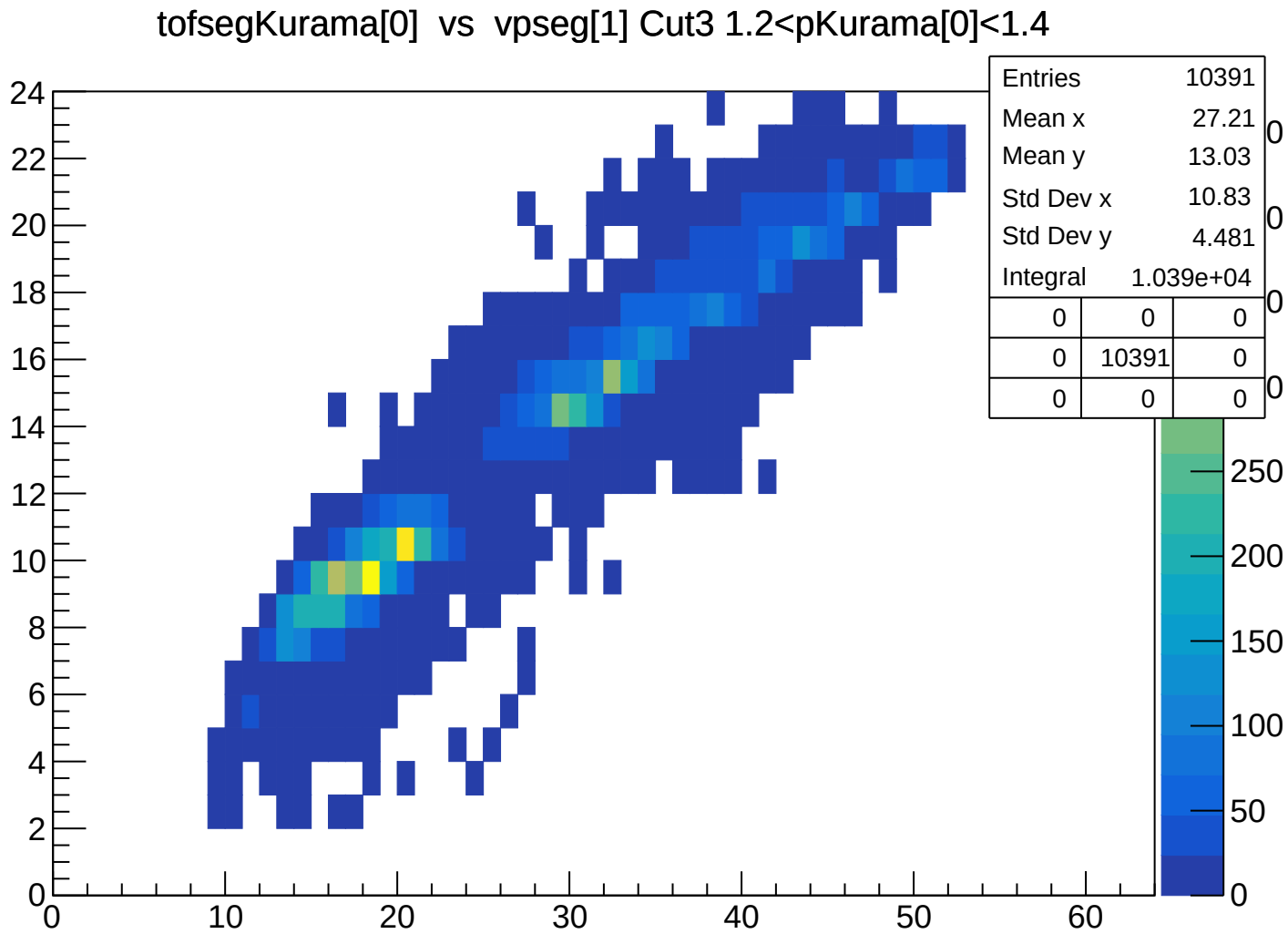

TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x 26.91
Mean y 12.42
Std Dev x 11.34
Std Dev y 4.386
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000

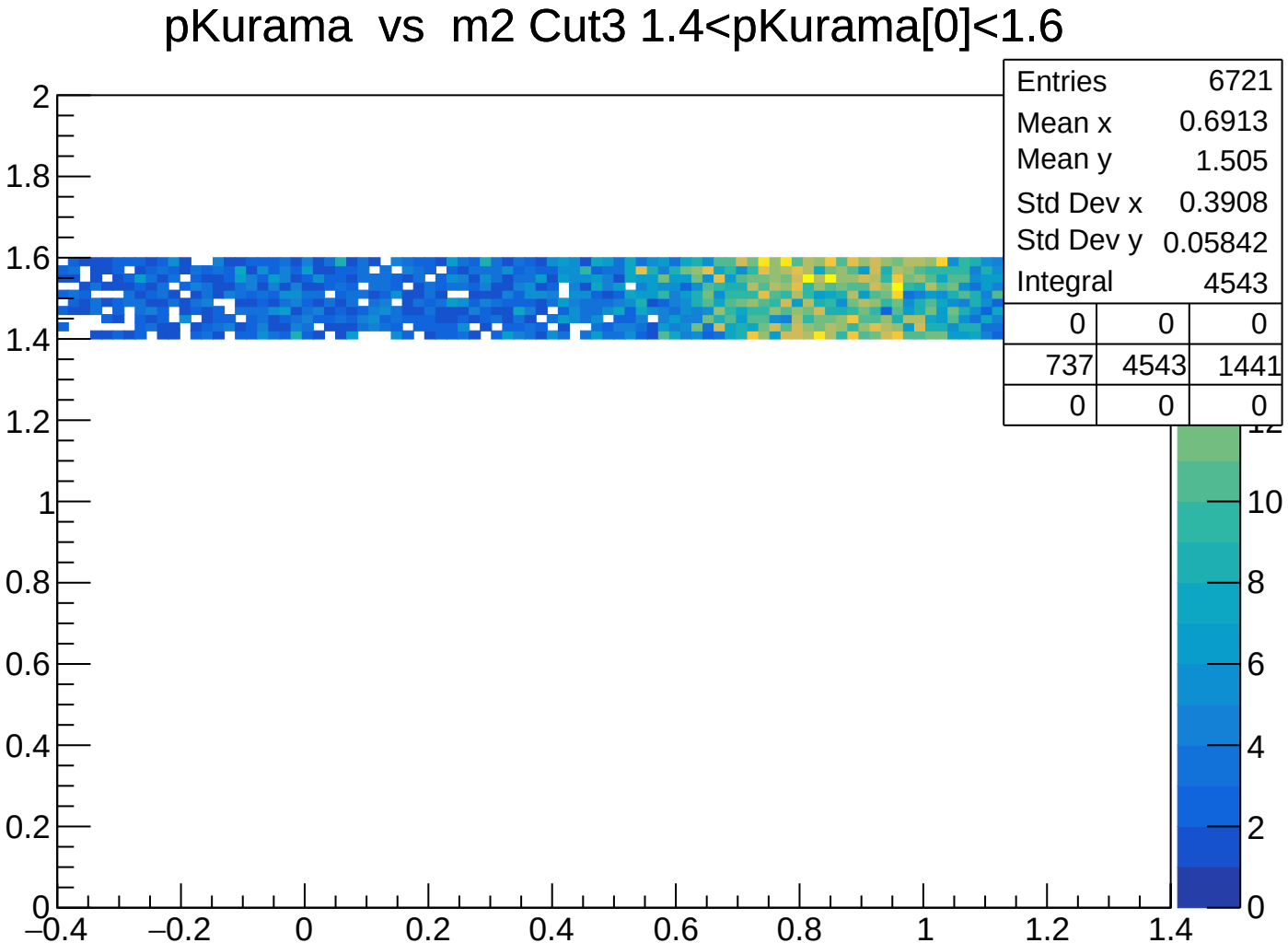

tofsegKurama[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x 26.91
Mean y 12.21
Std Dev x 11.34
Std Dev y 4.56
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1000
2000
3000

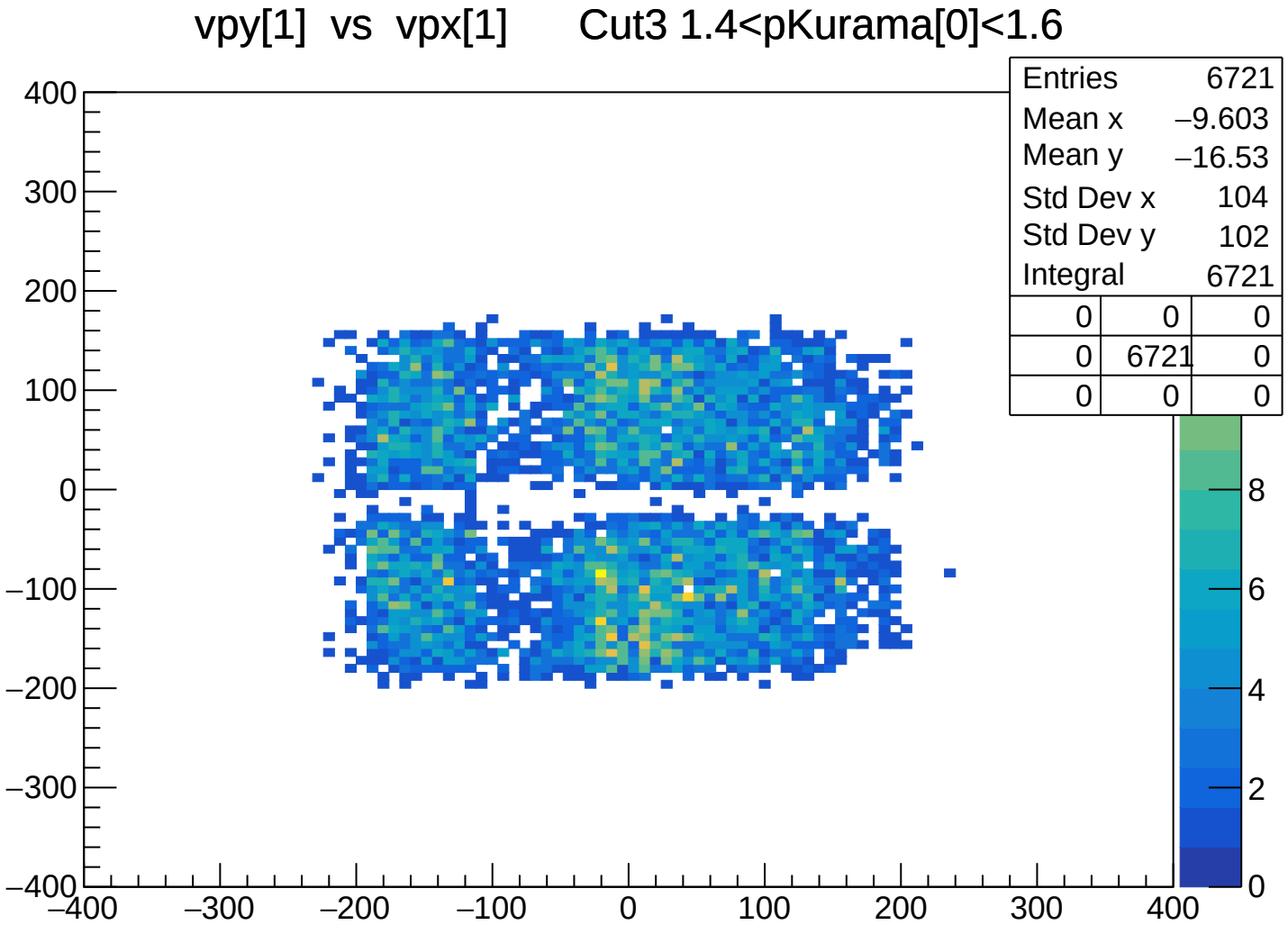

pKurama vs m2 Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x 0.782
Mean y 1.276
Std Dev x 0.3152
Std Dev y 0.05641
Integral 8073
0 0 0
955 8073 1363
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
40
30
20
10
0

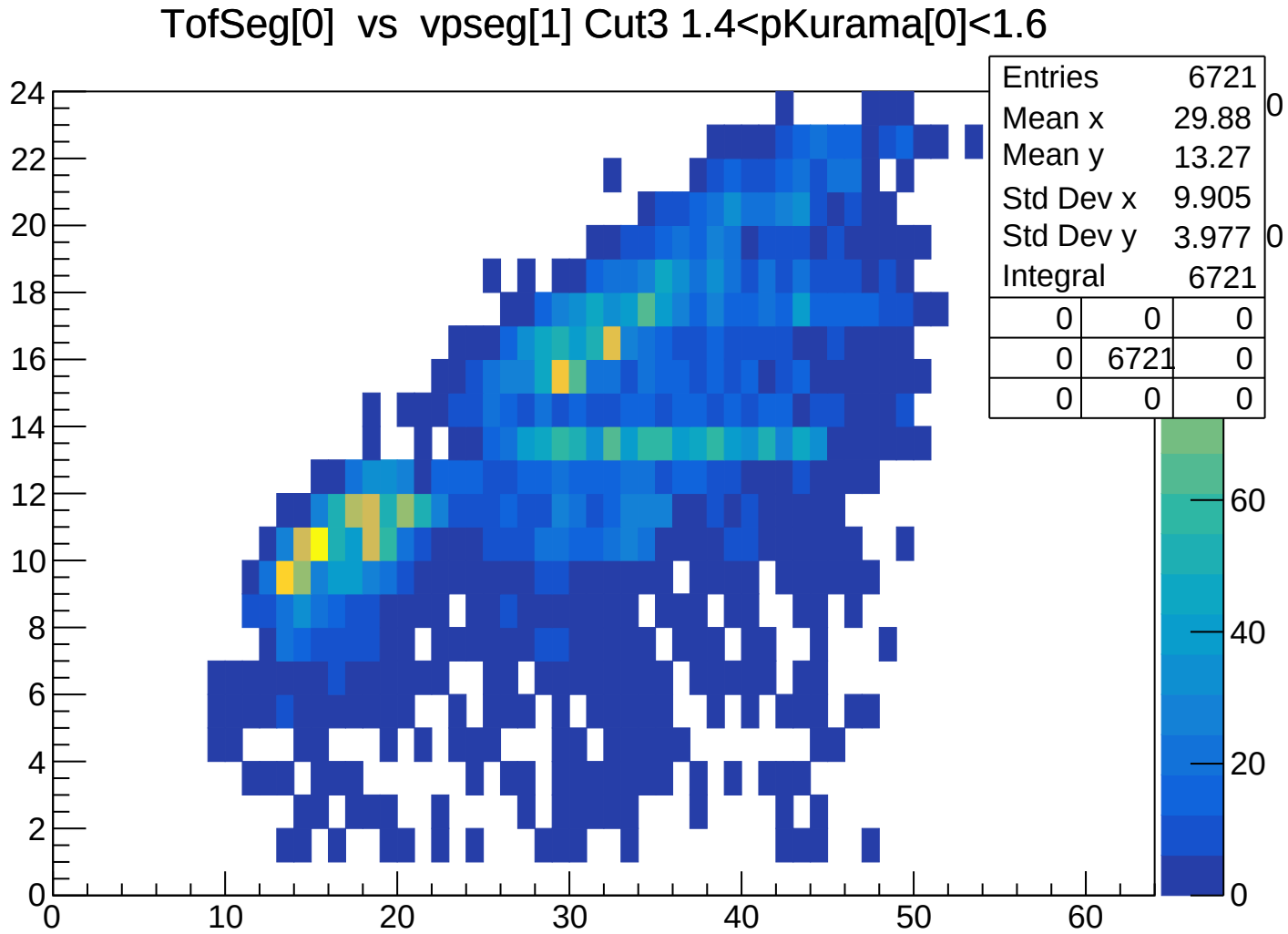

vpy[1] vs vpx[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x –37.68
Mean y –15.22
Std Dev x 113.8
Std Dev y 103.3
Integral 1.039e+04
0 0 0
0 10391 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
10
5
0

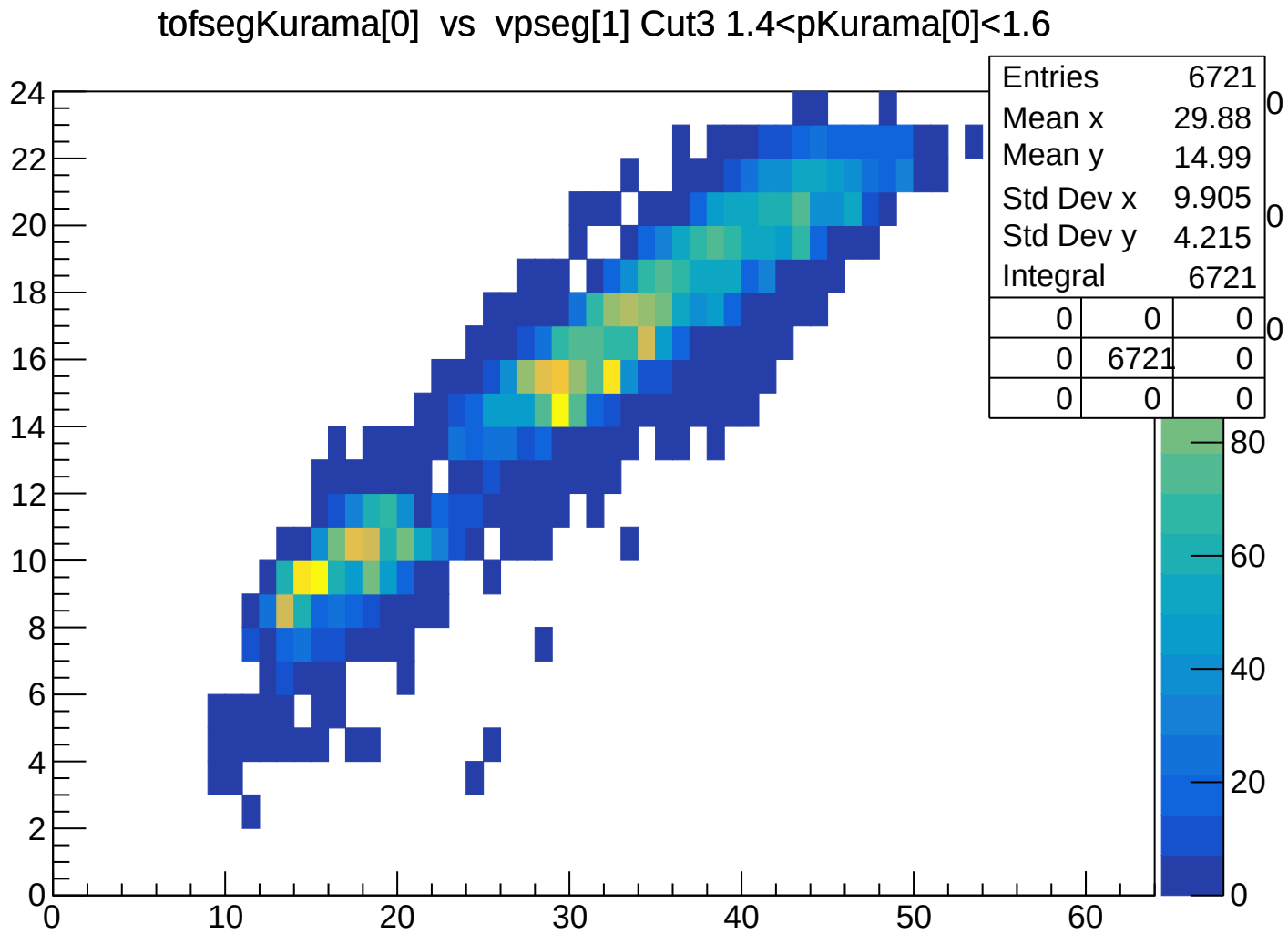

TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x 27.21
Mean y 12.3
Std Dev x 10.83
Std Dev y 4.082
Integral 1.039e+04
0 1 0
0 10390 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
50
100
150
200
250

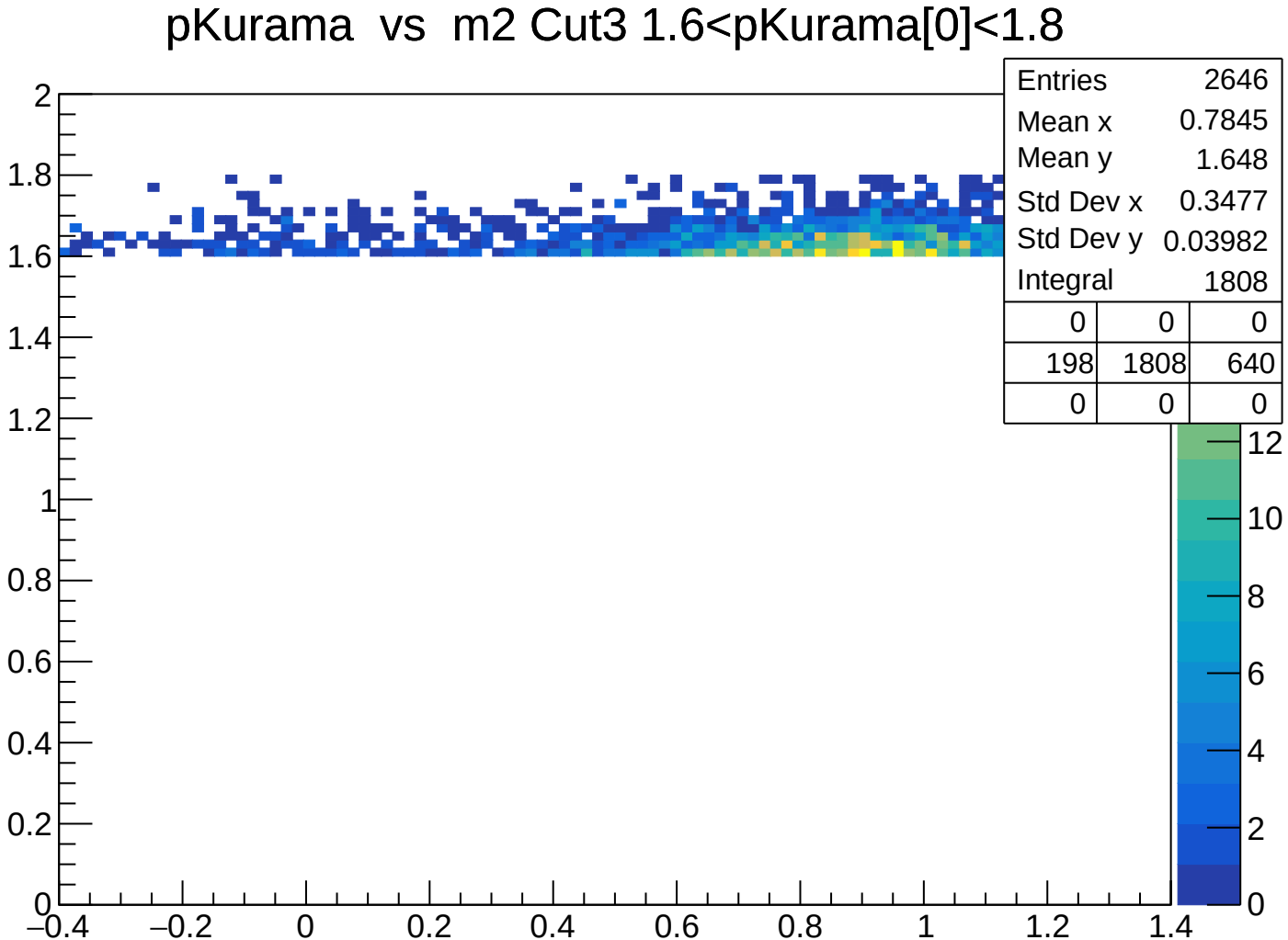

tofsegKurama[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x 27.21
Mean y 13.03
Std Dev x 10.83
Std Dev y 4.481
Integral 1.039e+04
0 0 0
0 10391 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
50
100
150
200
250

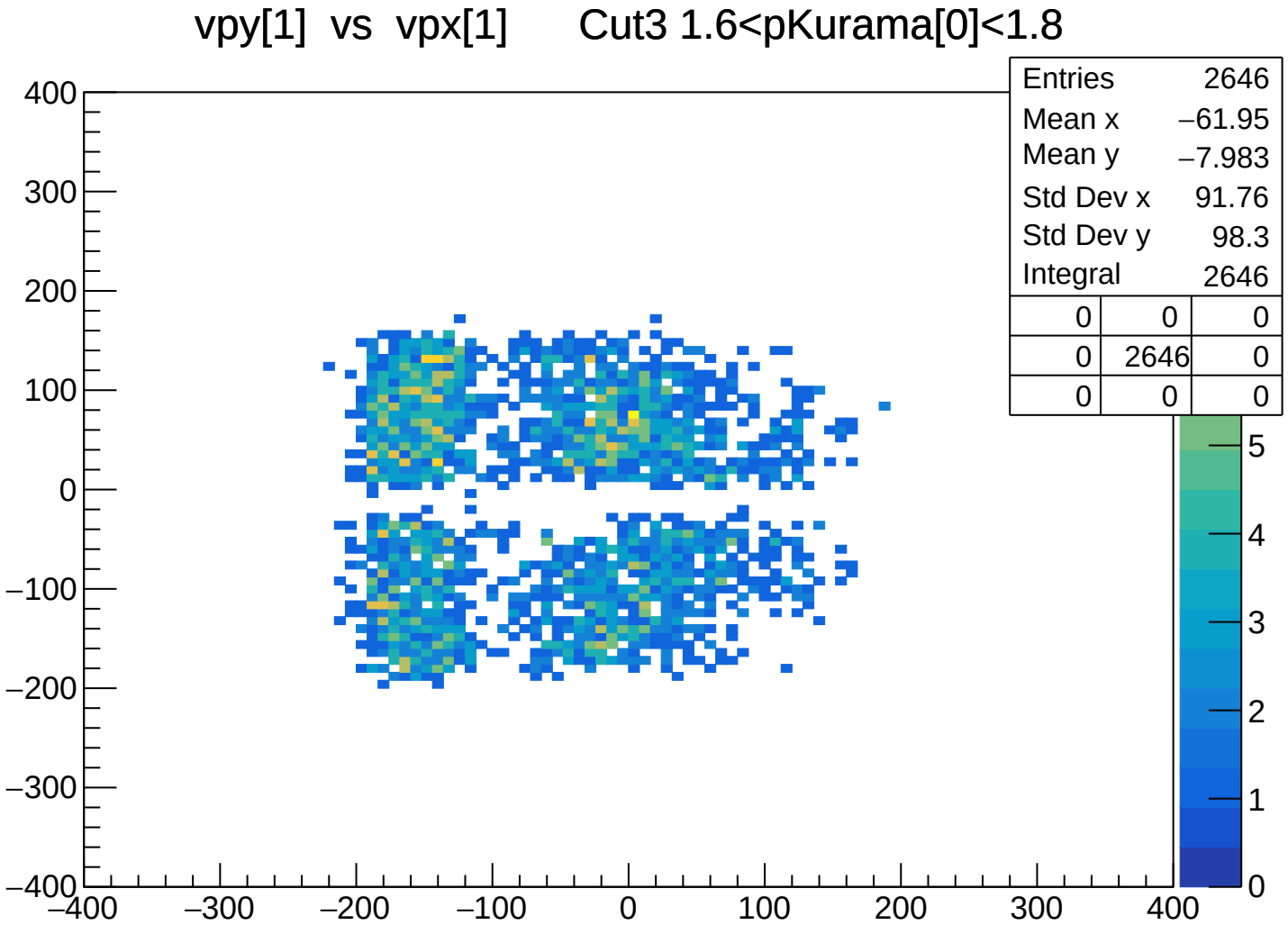

pKurama vs m2 Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x 0.6913
Mean y 1.505
Std Dev x 0.3908
Std Dev y 0.05842
Integral 4543
0 0 0
737 4543 1441
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
10
8
6
4
2
0

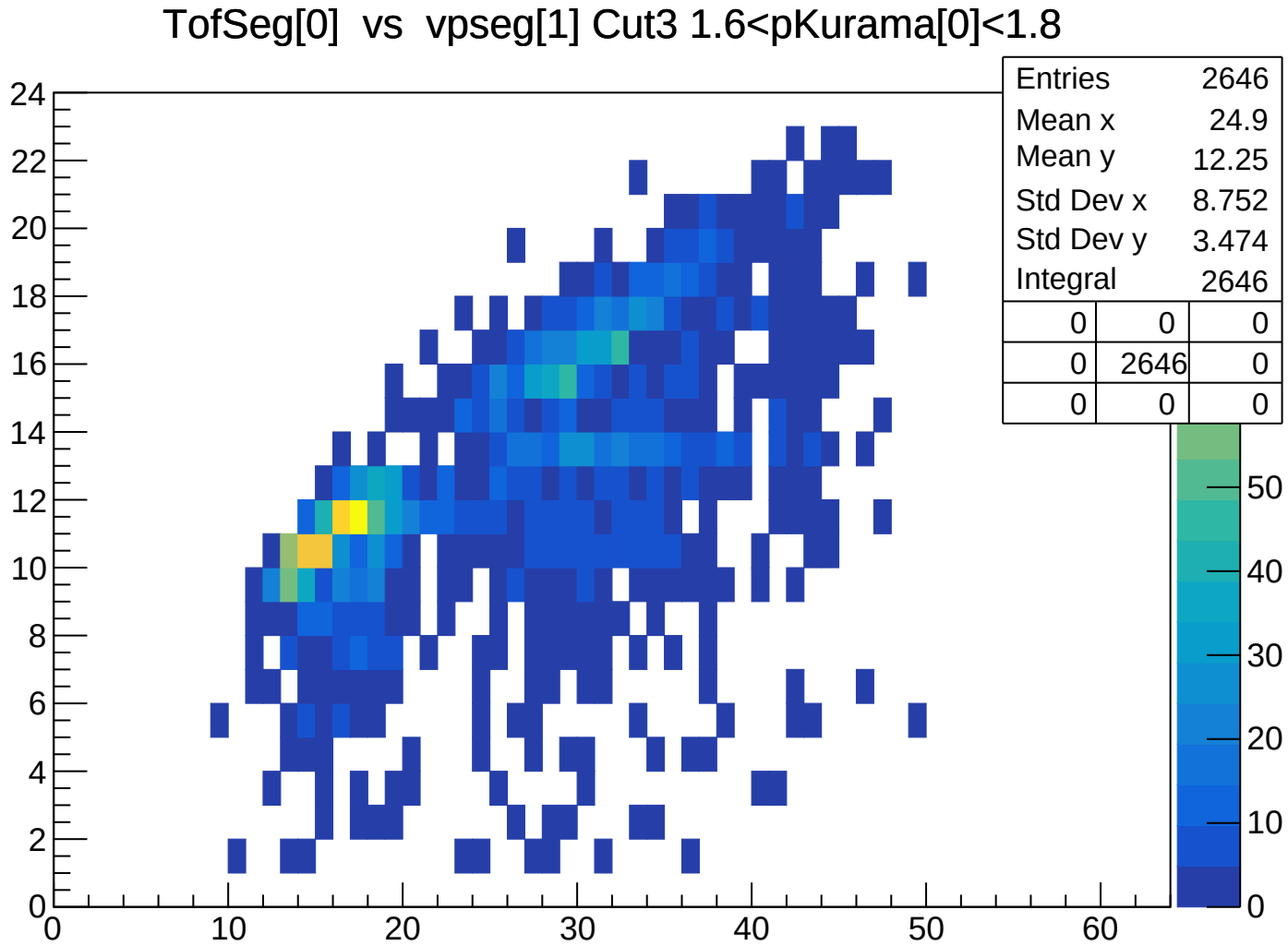

vpy[1] vs vpx[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x –9.603
Mean y –16.53
Std Dev x 104
Std Dev y 102
Integral 6721
0 0 0
0 6721 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
8
6
4
2
0

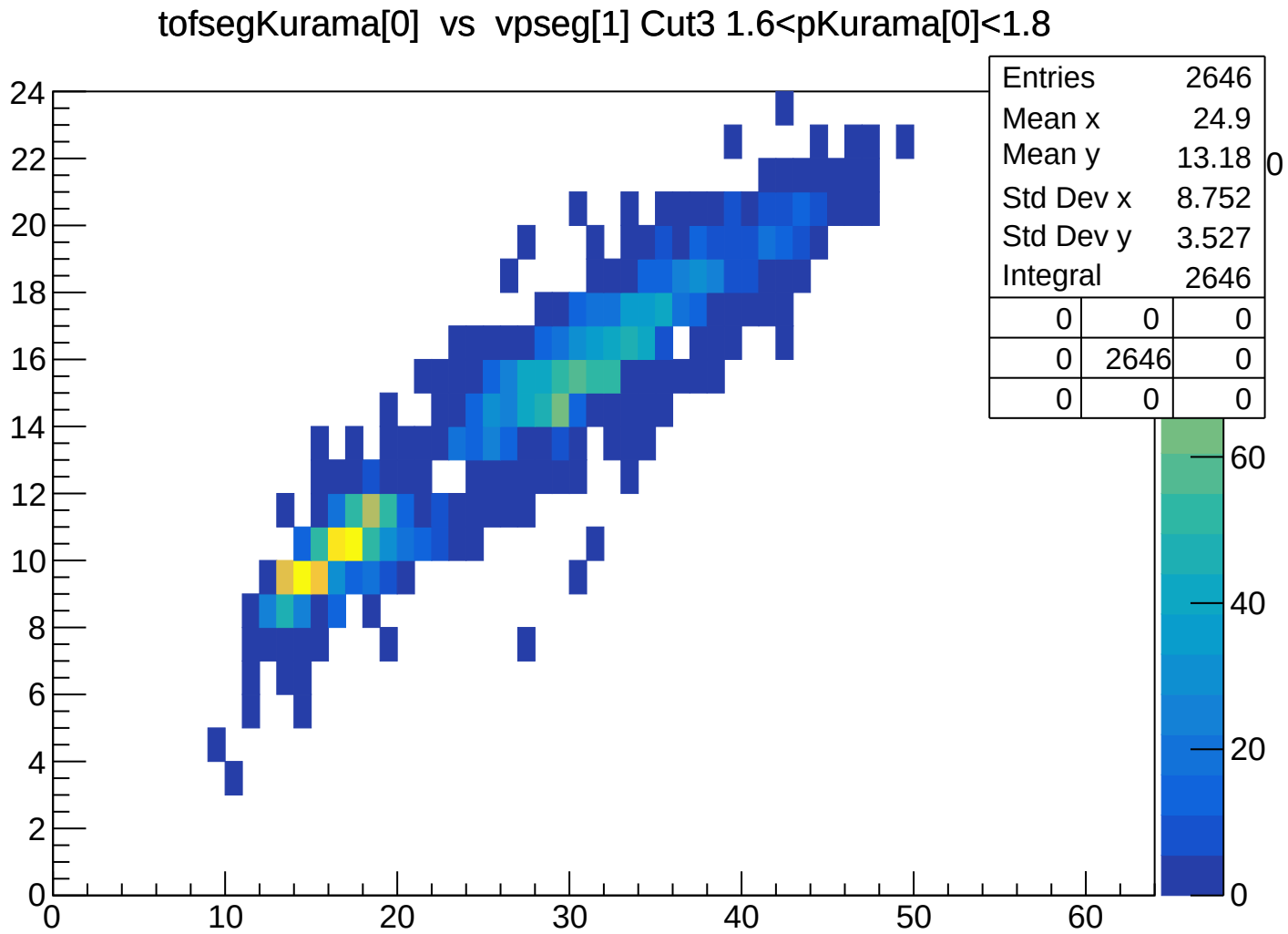

TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x 29.88
Mean y 13.27
Std Dev x 9.905
Std Dev y 3.977
Integral 6721
0 0 0
0 6721 0
0 0 0
0 10 20 30 40 50 60
0 2 4 6 8 10 12 14 16 18 20 22 24
0 20 40 60

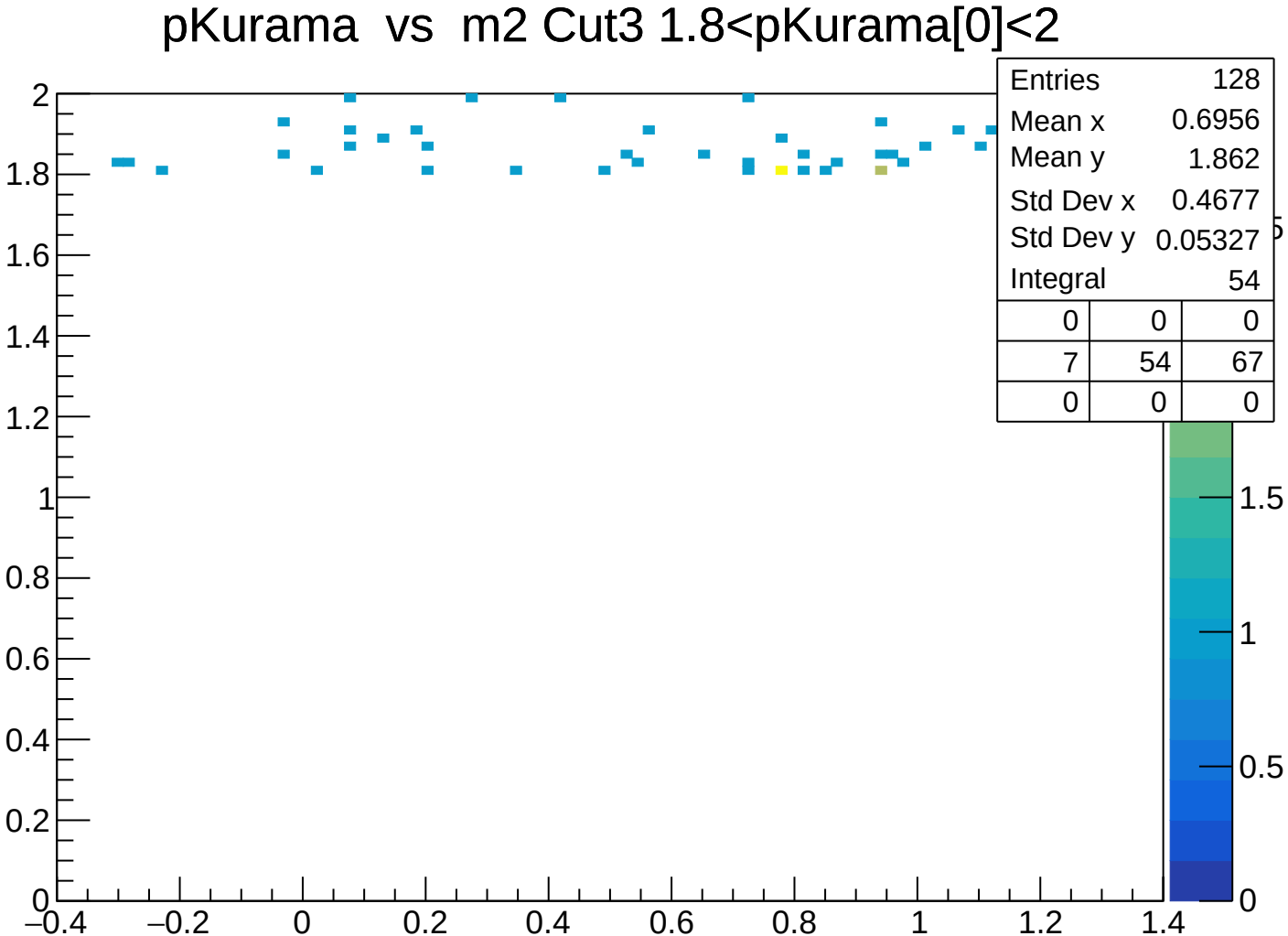

tofsegKurama[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x 29.88
Mean y 14.99
Std Dev x 9.905
Std Dev y 4.215
Integral 6721
0 0 0
0 6721 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60
80

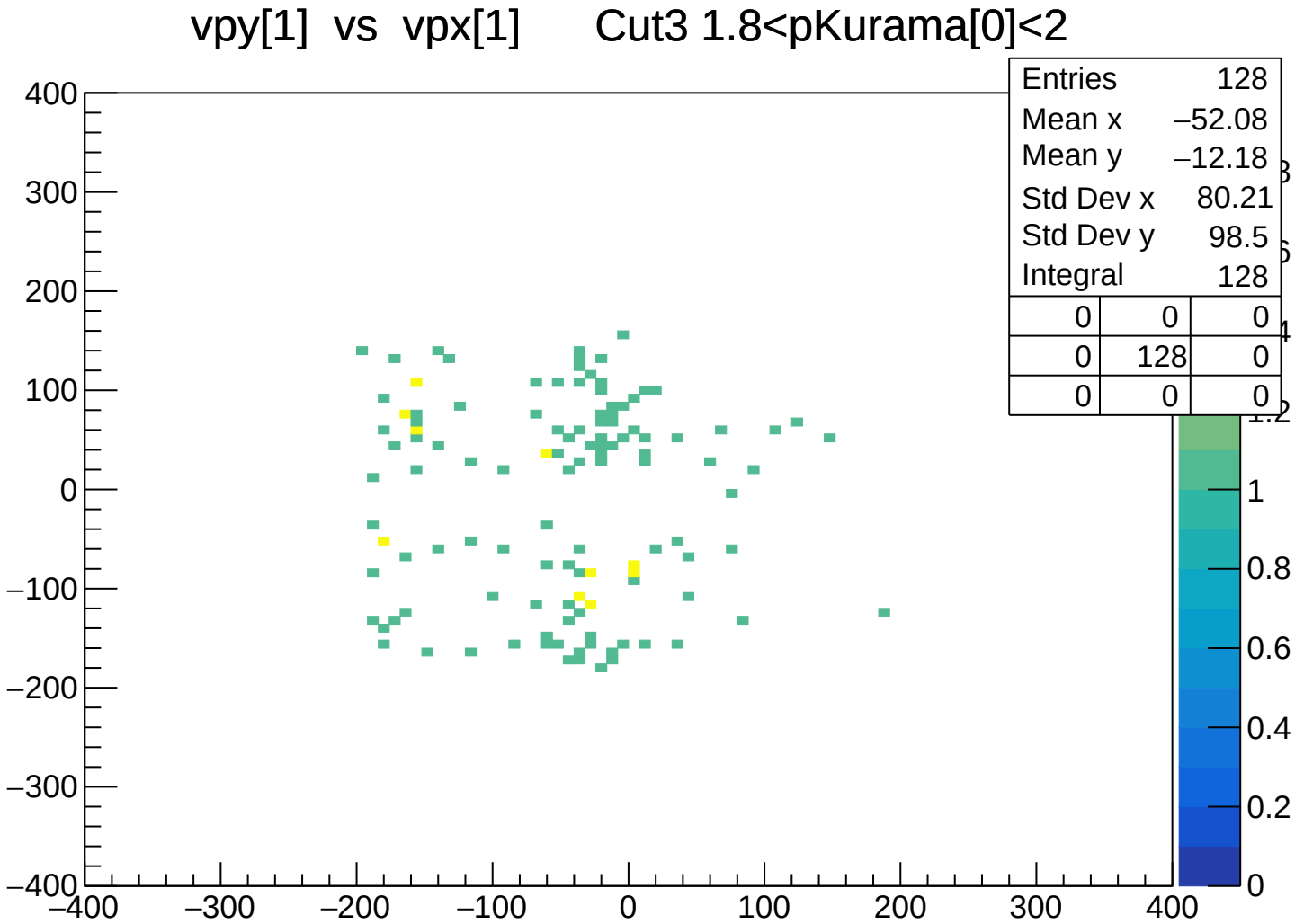

pKurama vs m2 Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 0.7845
Mean y 1.648
Std Dev x 0.3477
Std Dev y 0.03982
Integral 1808
0 0 0
198 1808 640
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
12
10
8
6
4
2
0

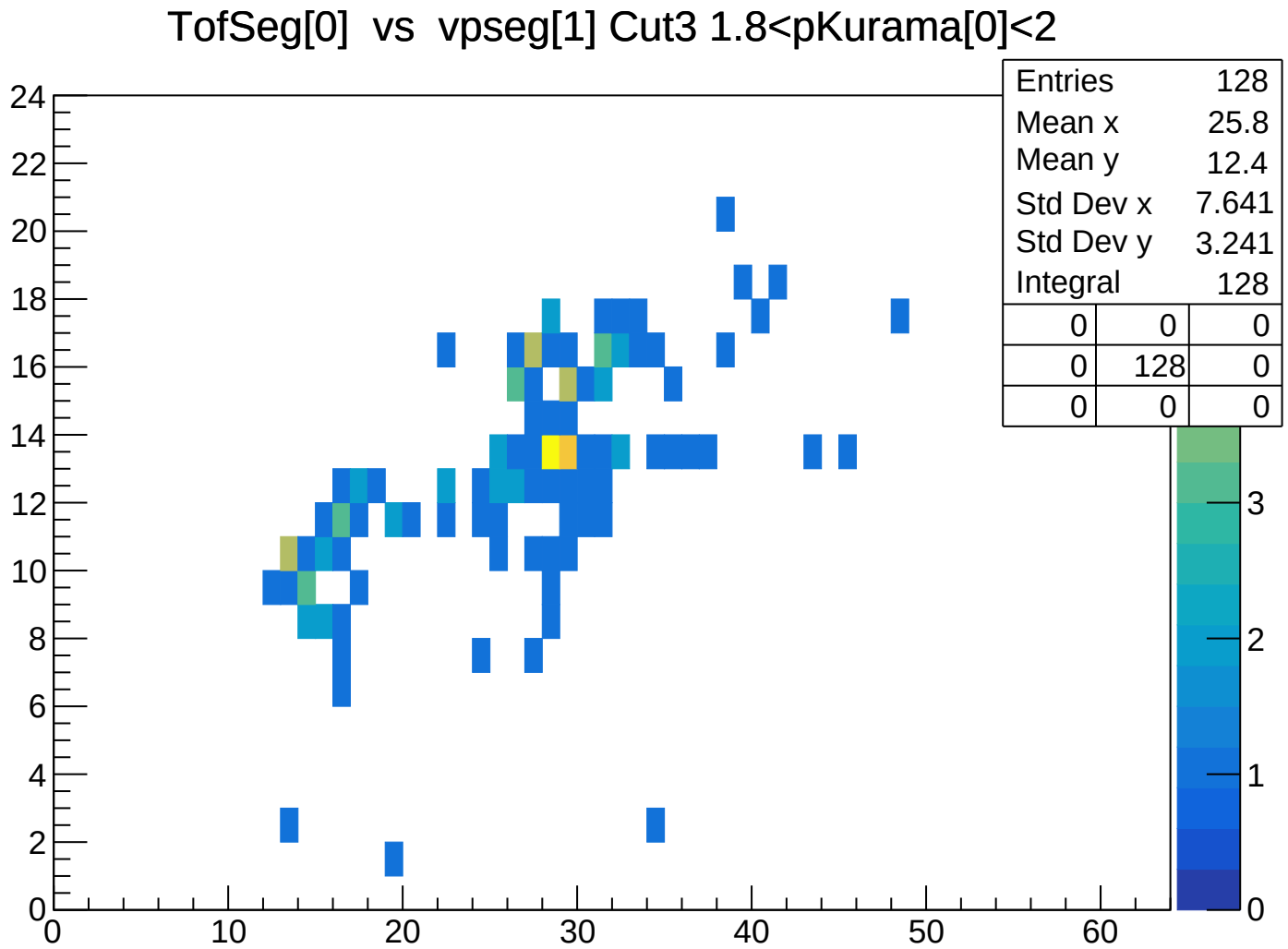

vpy[1] vs vpx[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x −61.95
Mean y −7.983
Std Dev x 91.76
Std Dev y 98.3
Integral 2646
0 0 0
0 2646 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
5
4
3
2
1
0

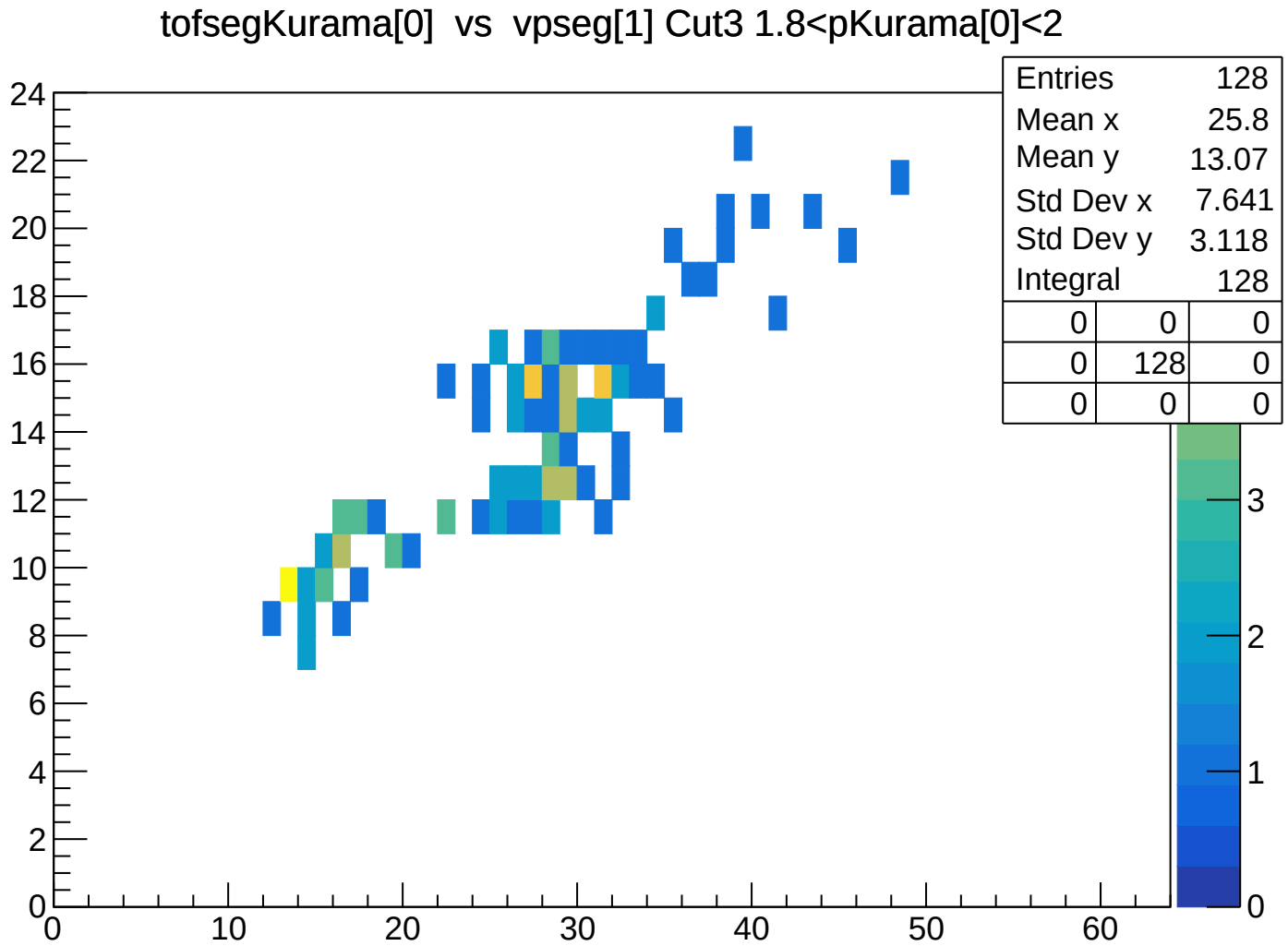

TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 24.9
Mean y 12.25
Std Dev x 8.752
Std Dev y 3.474
Integral 2646
0 0 0
0 2646 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30
40
50


tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 24.9
Mean y 13.18
Std Dev x 8.752
Std Dev y 3.527
Integral 2646
0 0 0
0 2646 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

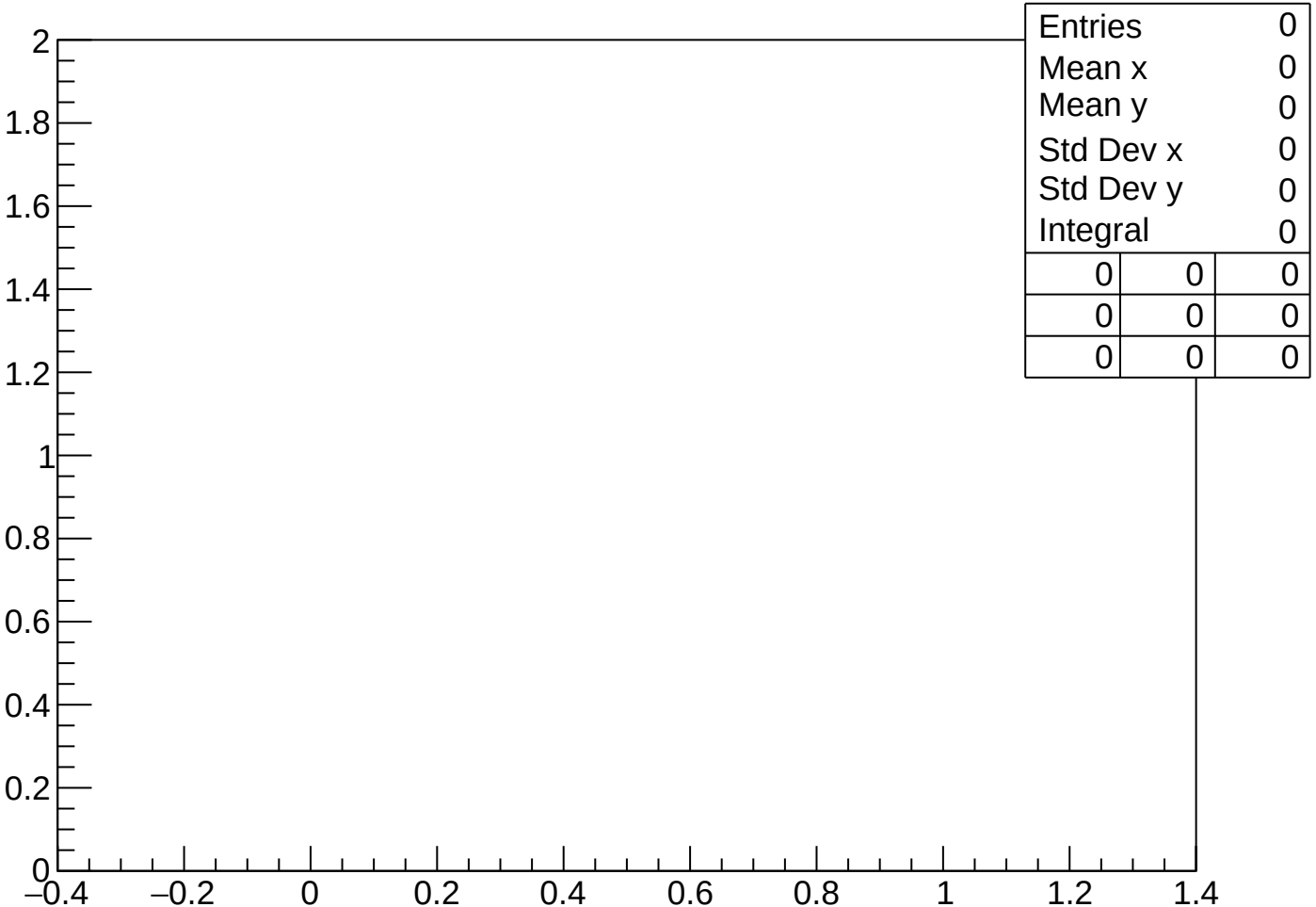

pKurama vs m2 Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 0.6956
Mean y 1.862
Std Dev x 0.4677
Std Dev y 0.05327
Integral 54
0 0 0
7 54 67
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.5
1
0.5
0

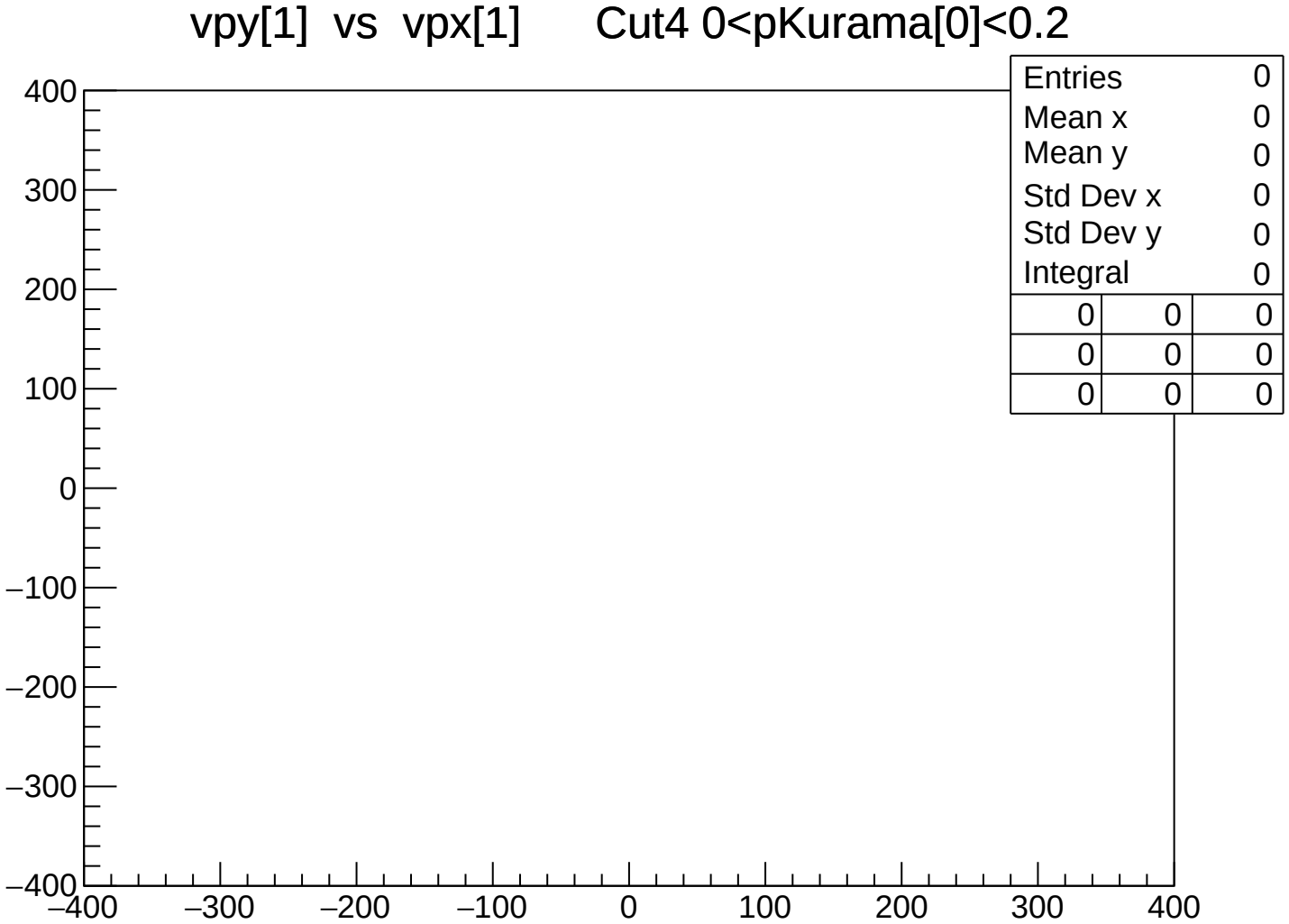

vpy[1] vs vpx[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x –52.08
Mean y –12.18
Std Dev x 80.21
Std Dev y 98.5
Integral 128
0 0 0
0 128 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
1
0.8
0.6
0.4
0.2
0

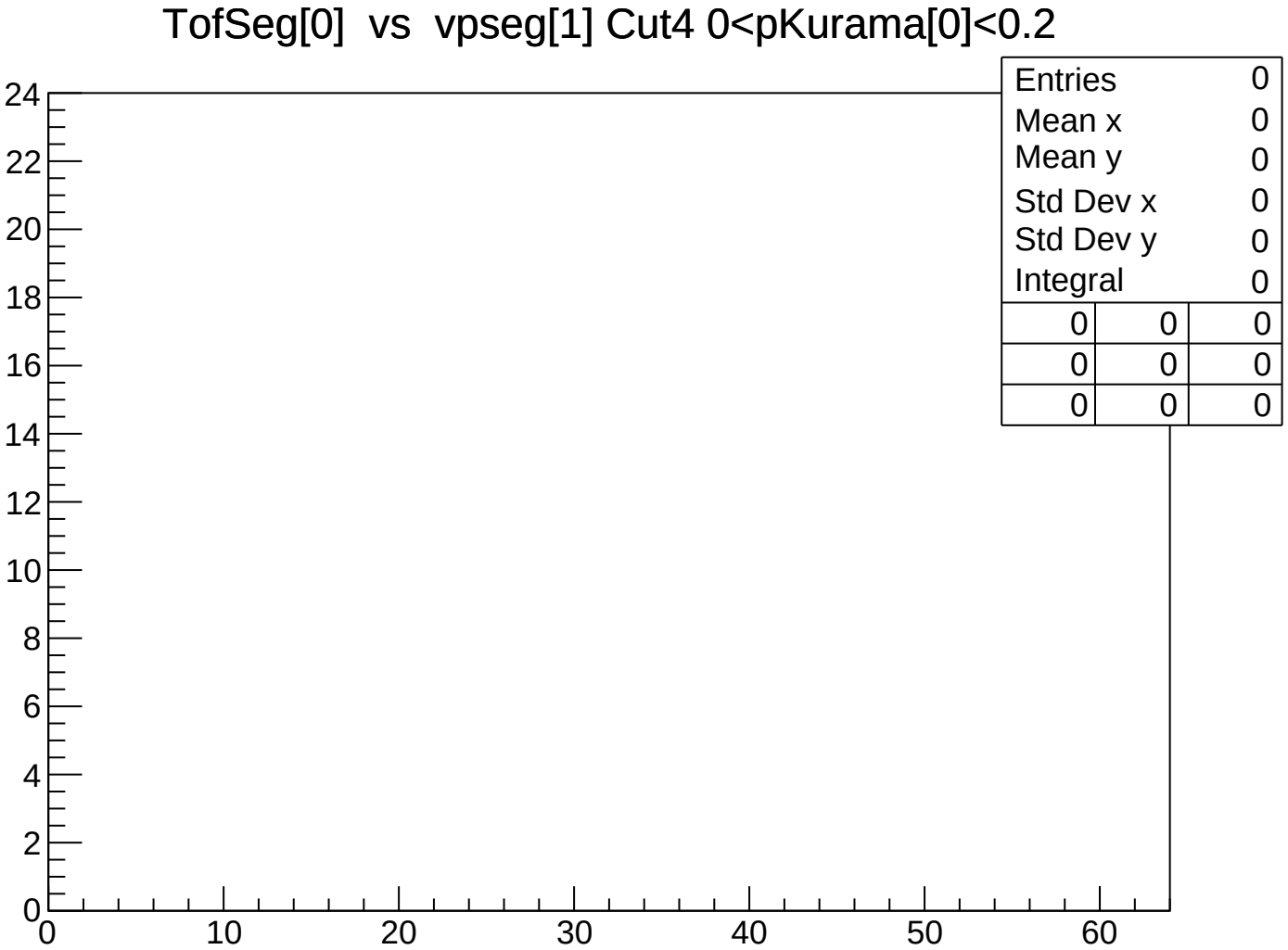

TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 25.8
Mean y 12.4
Std Dev x 7.641
Std Dev y 3.241
Integral 128
0 0 0
0 128 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1
2
3

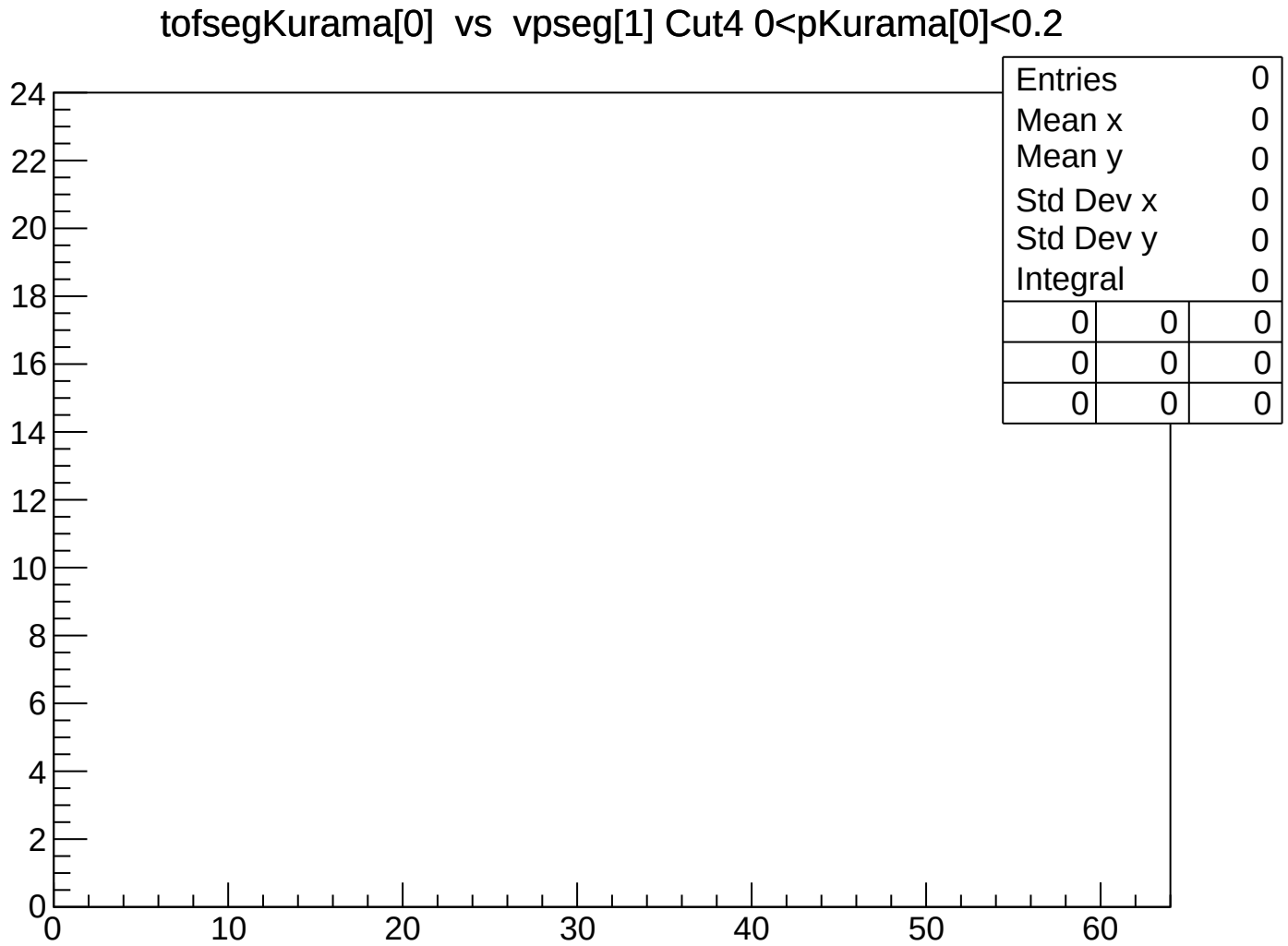

tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 25.8
Mean y 13.07
Std Dev x 7.641
Std Dev y 3.118
Integral 128
0 0 0
0 128 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1
2
3

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

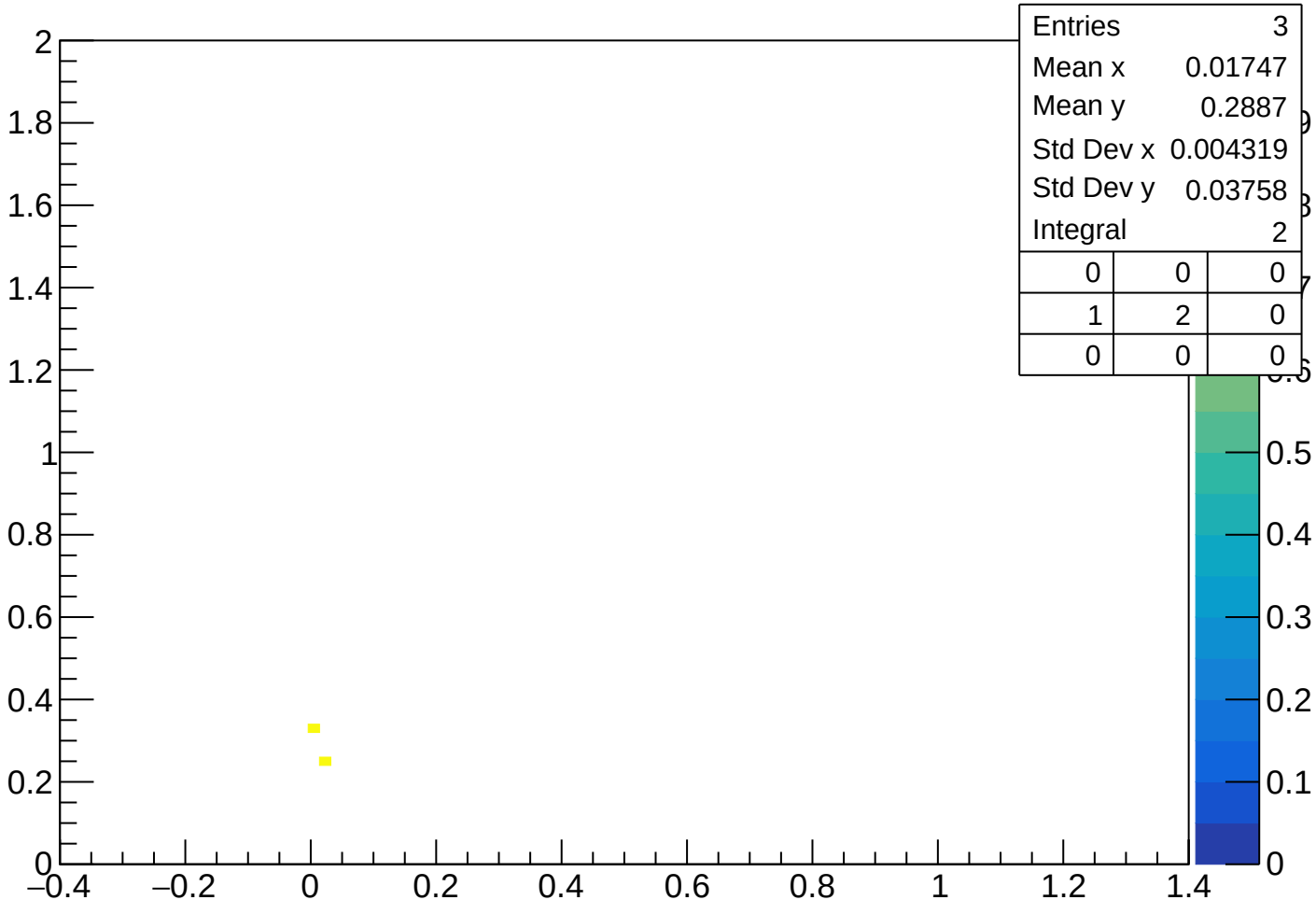


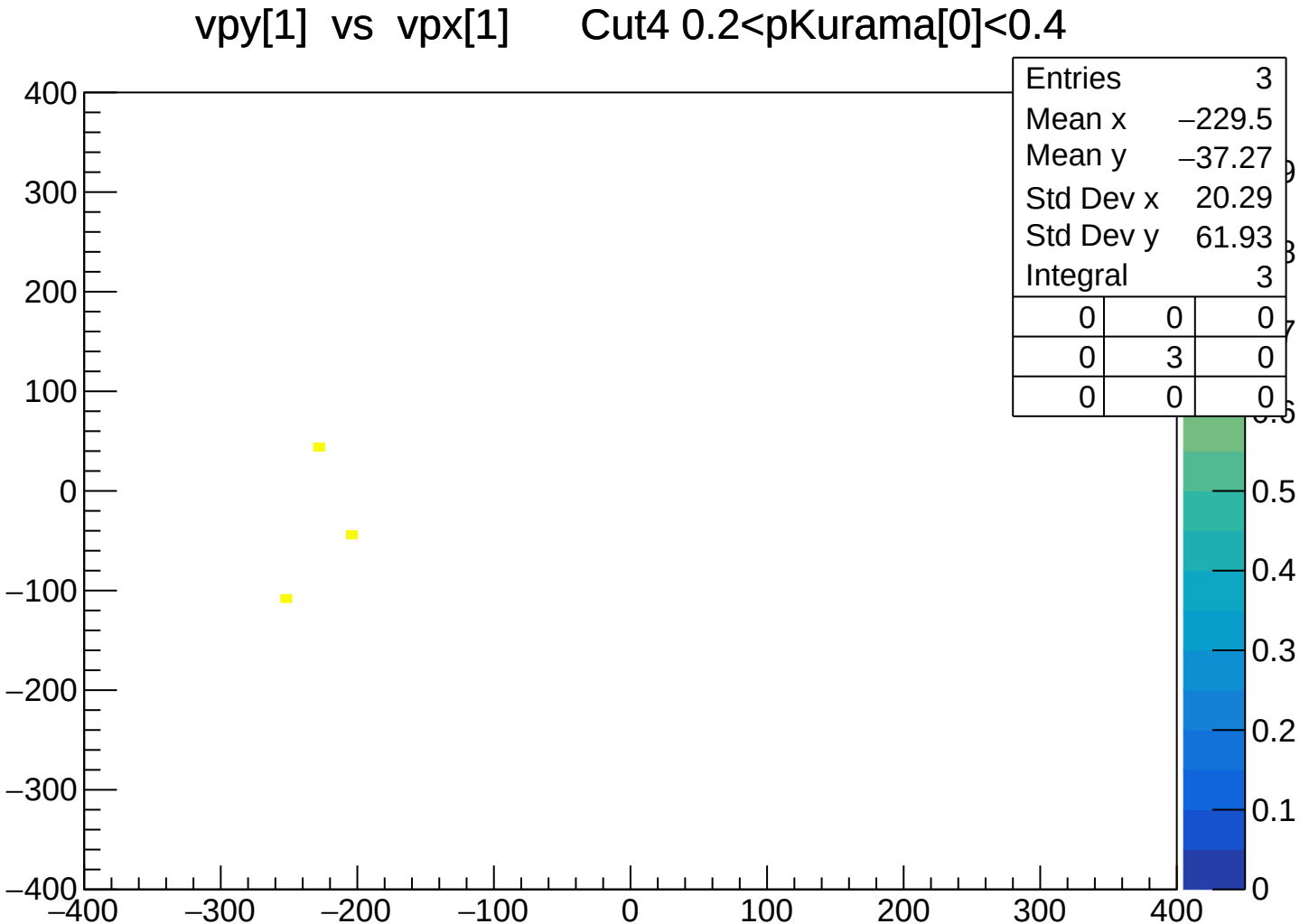

vpy[1] vs vpx[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

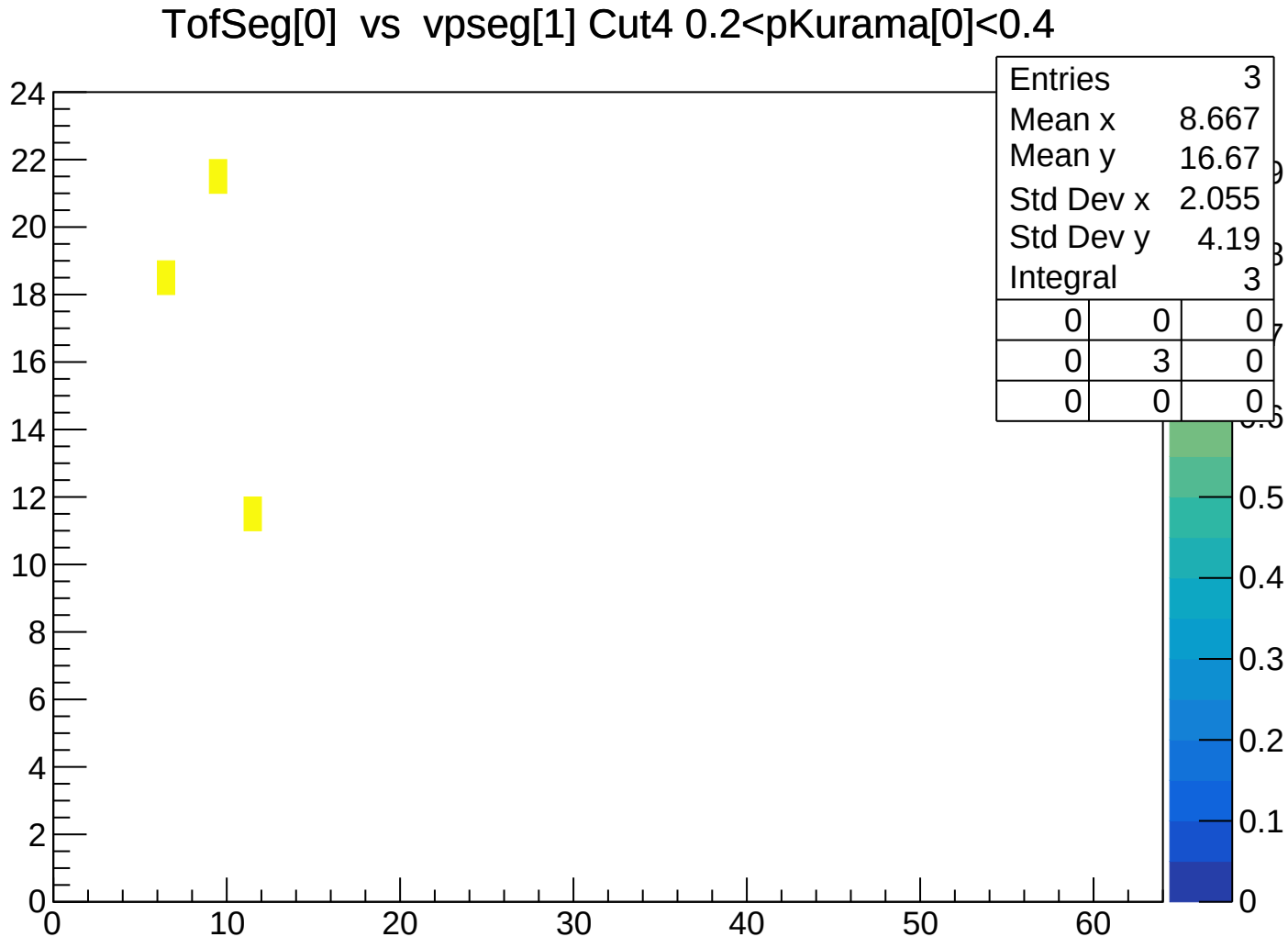

TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

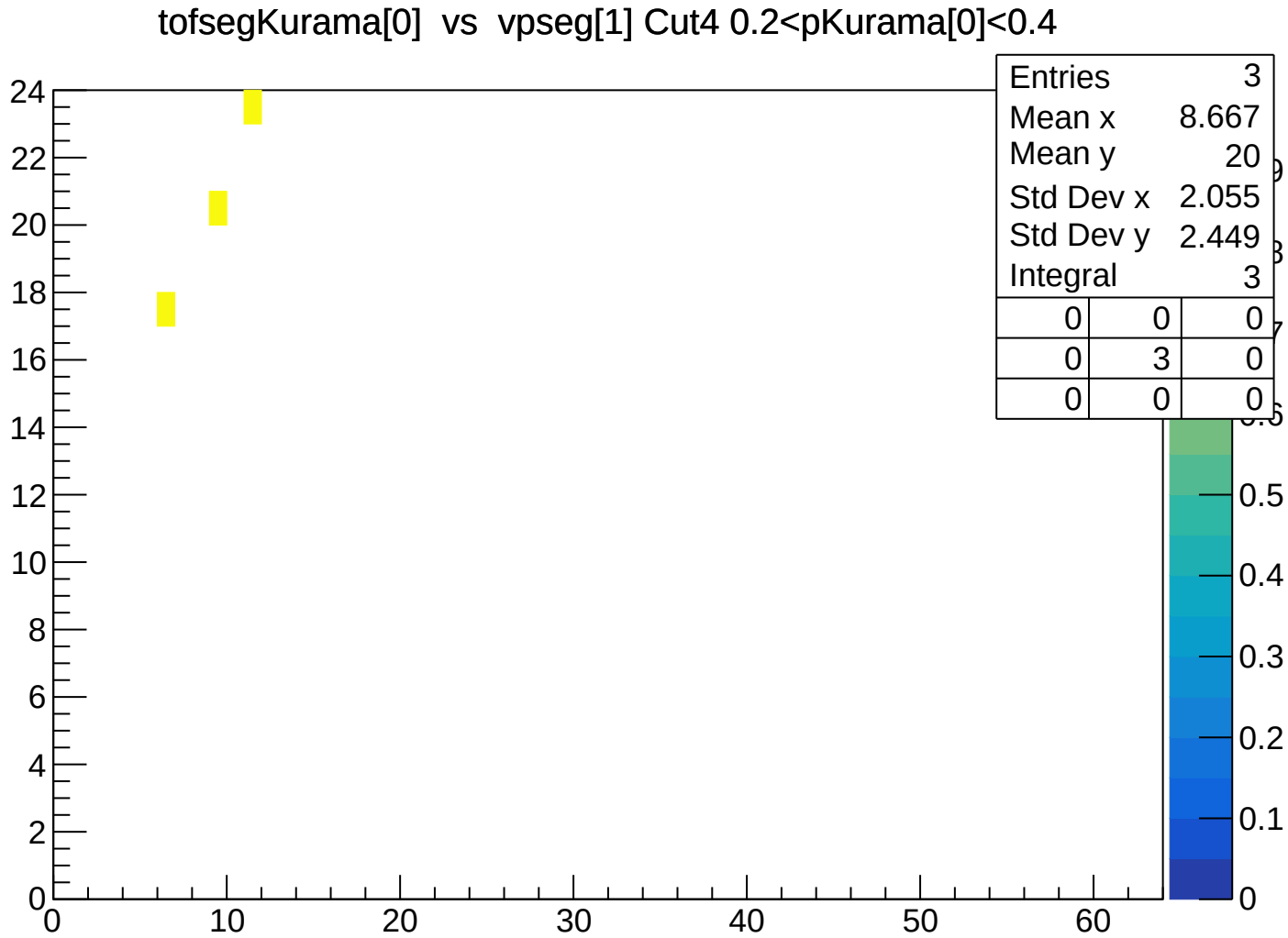

tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

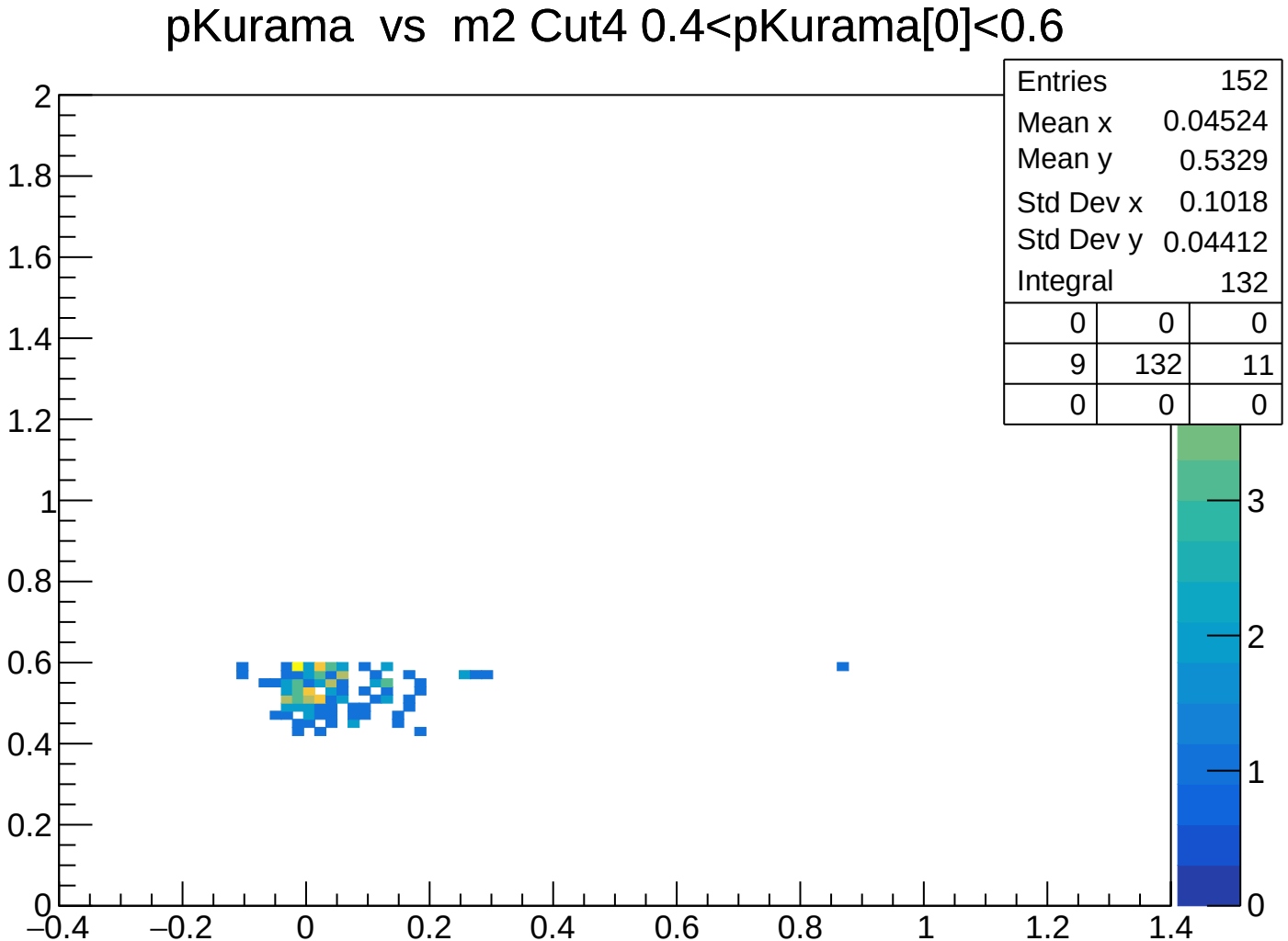
pKurama vs m2 Cut4 0.2<pKurama[0]<0.4

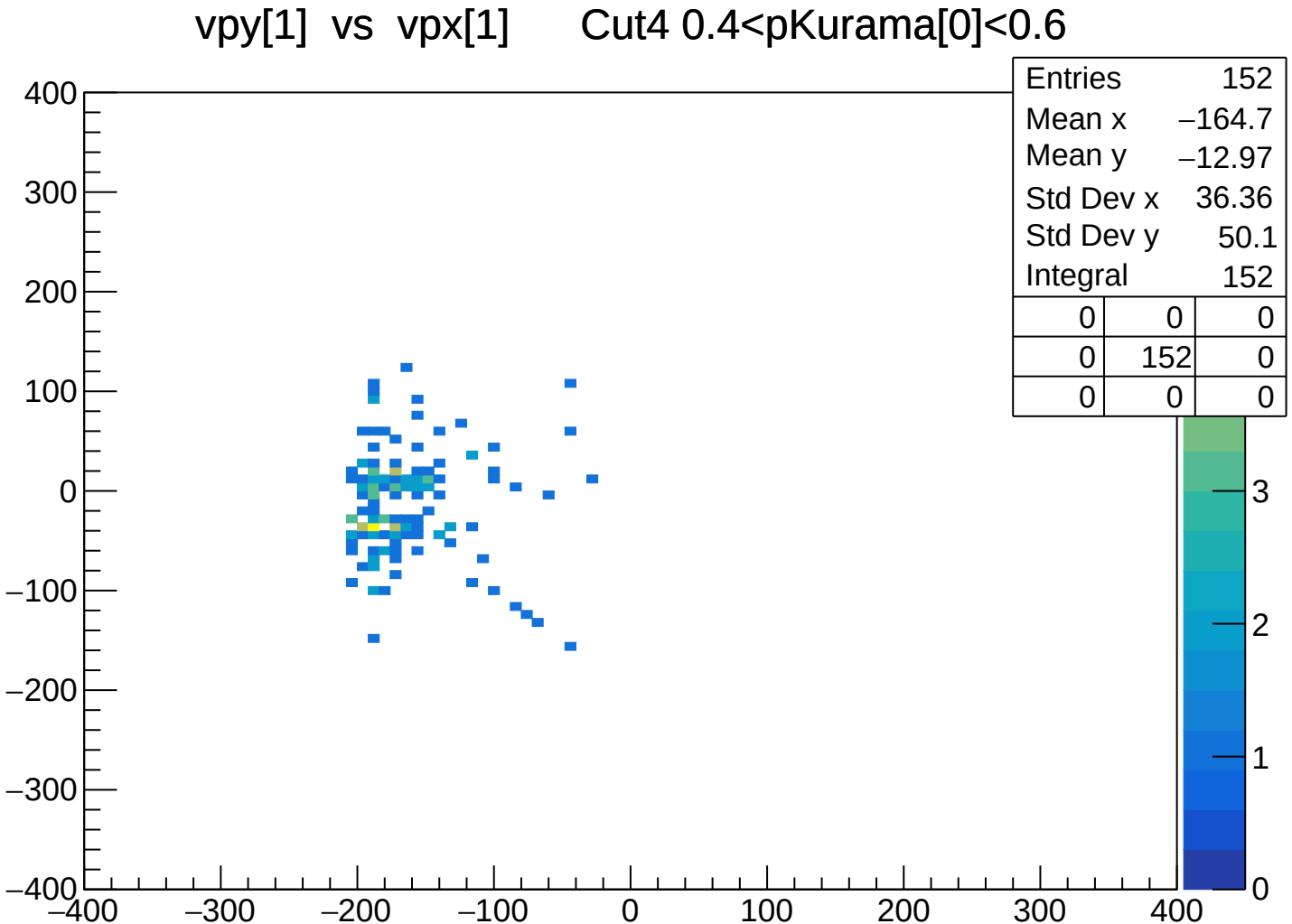


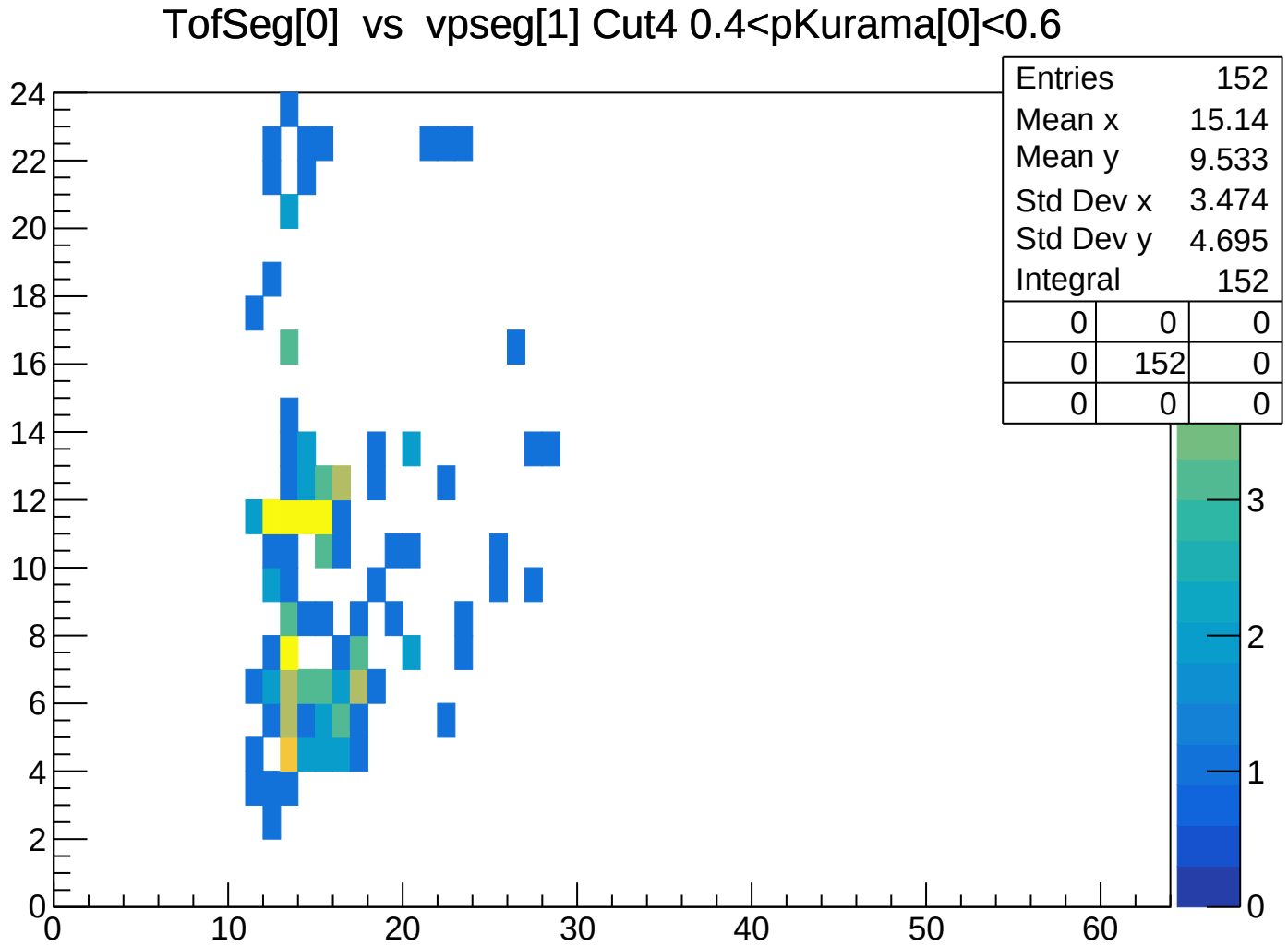

vpy[1] vs vpx[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x –229.5
Mean y –37.27
Std Dev x 20.29
Std Dev y 61.93
Integral 3
0 0 0
0 3 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
0.5
0.4
0.3
0.2
0.1
0

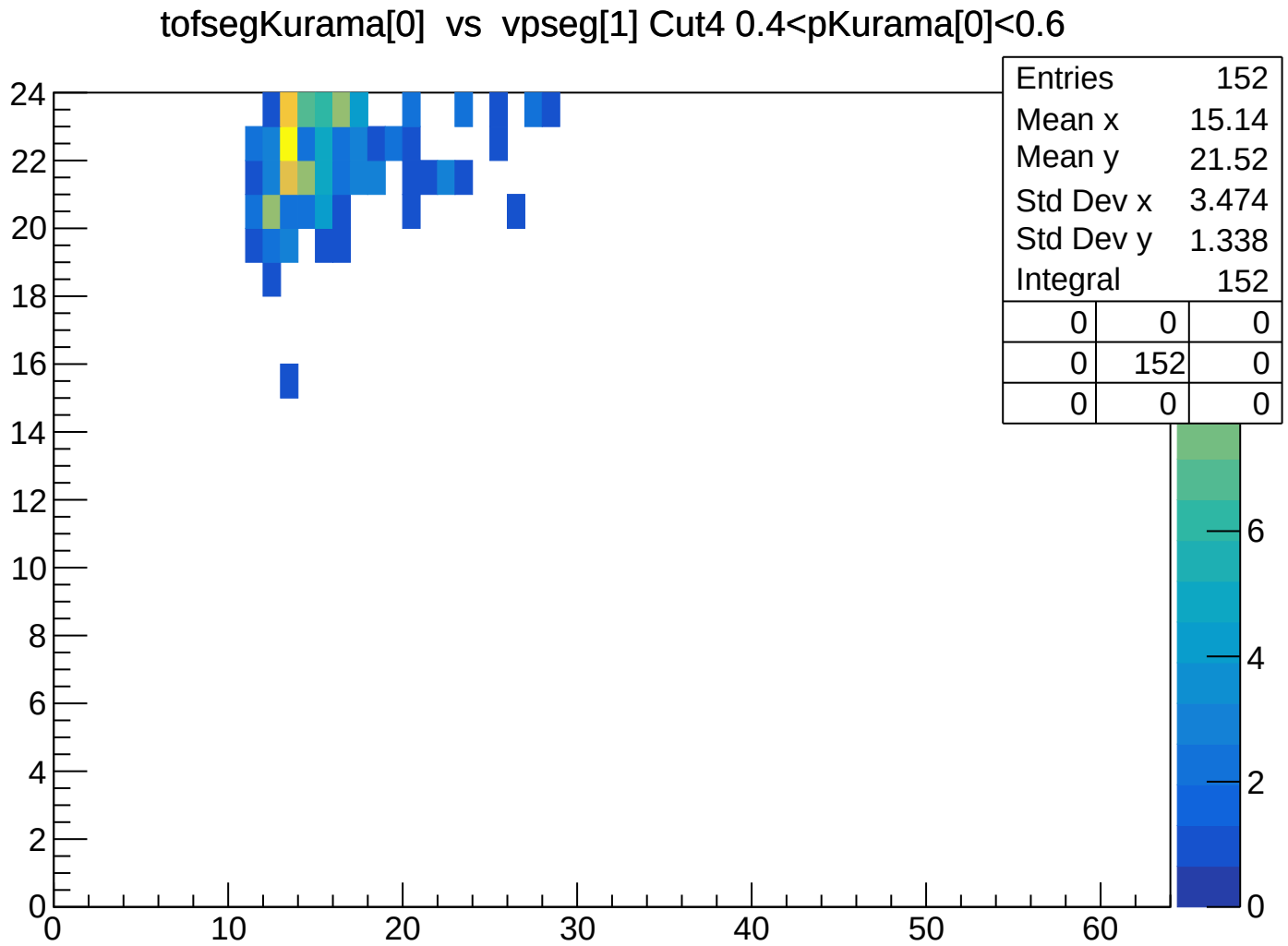

TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x 8.667
Mean y 16.67
Std Dev x 2.055
Std Dev y 4.19
Integral 3
0 0 0
0 3 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

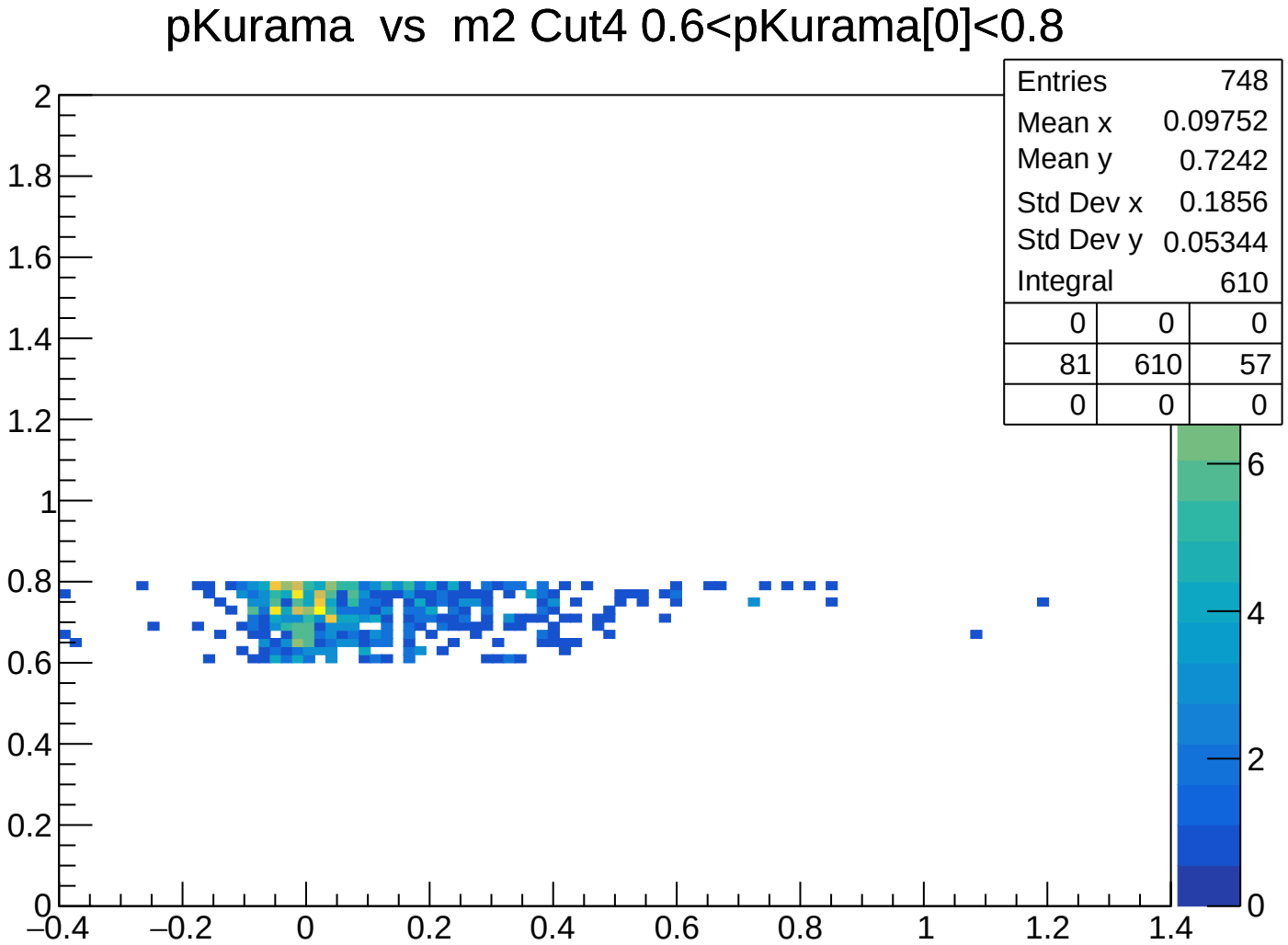

tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x 8.667
Mean y 20
Std Dev x 2.055
Std Dev y 2.449
Integral 3
0 0 0
0 3 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

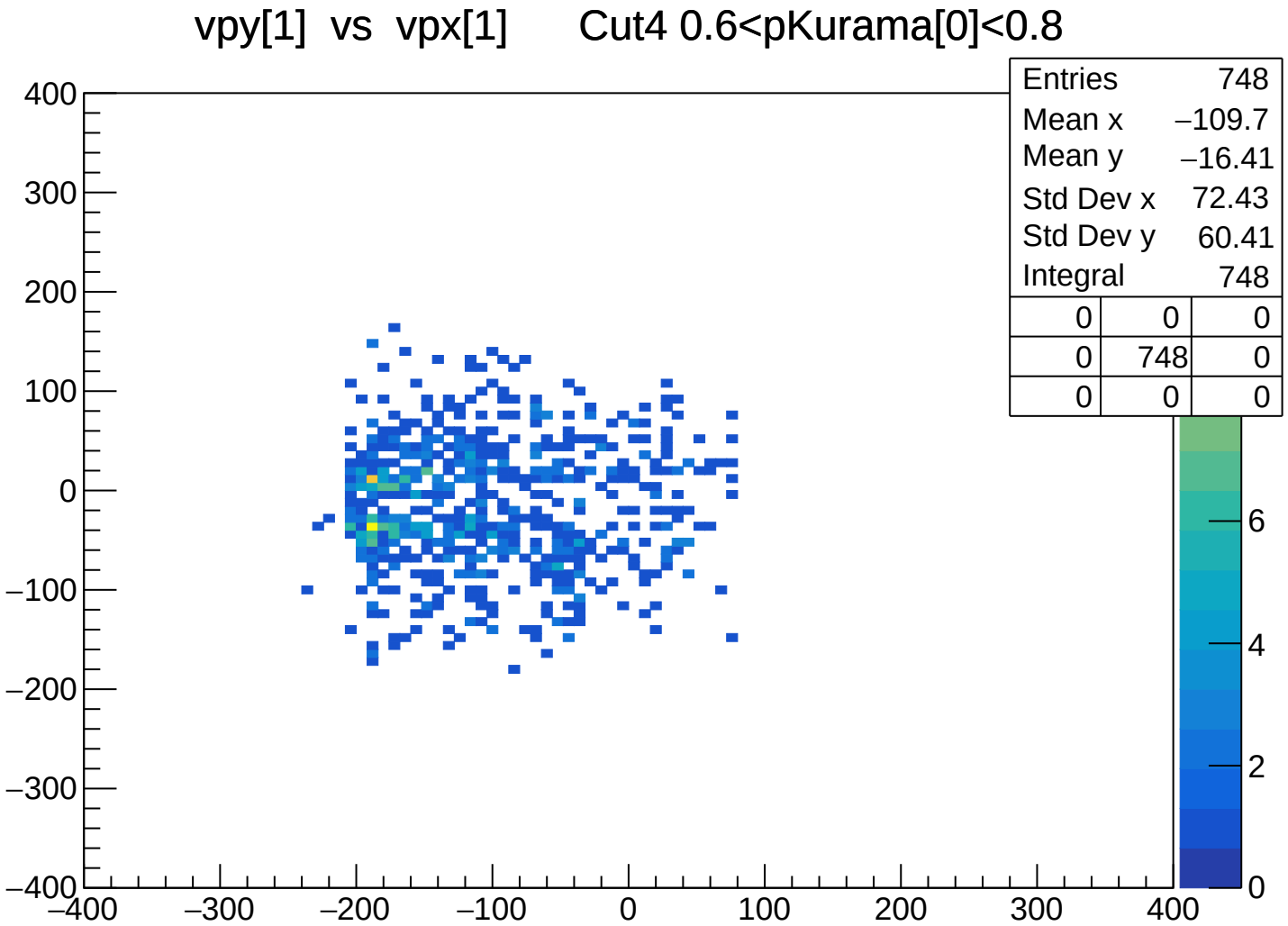

pKurama vs m2 Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x 0.04524
Mean y 0.5329
Std Dev x 0.1018
Std Dev y 0.04412
Integral 132
0 0 0
9 132 11
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
3
2
1
0

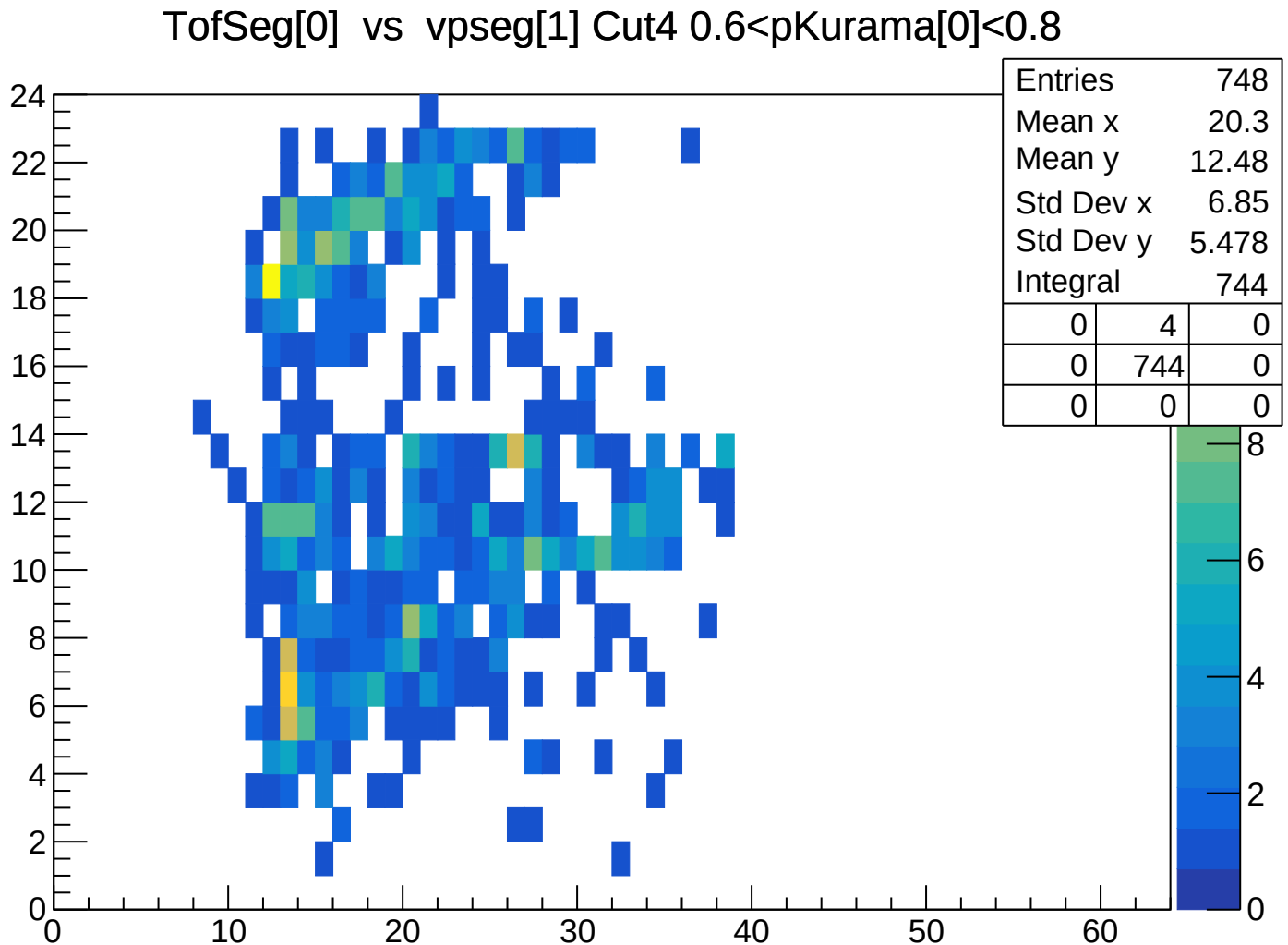

vpy[1] vs vpx[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x –164.7
Mean y –12.97
Std Dev x 36.36
Std Dev y 50.1
Integral 152
0 0 0
0 152 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
3
2
1
0

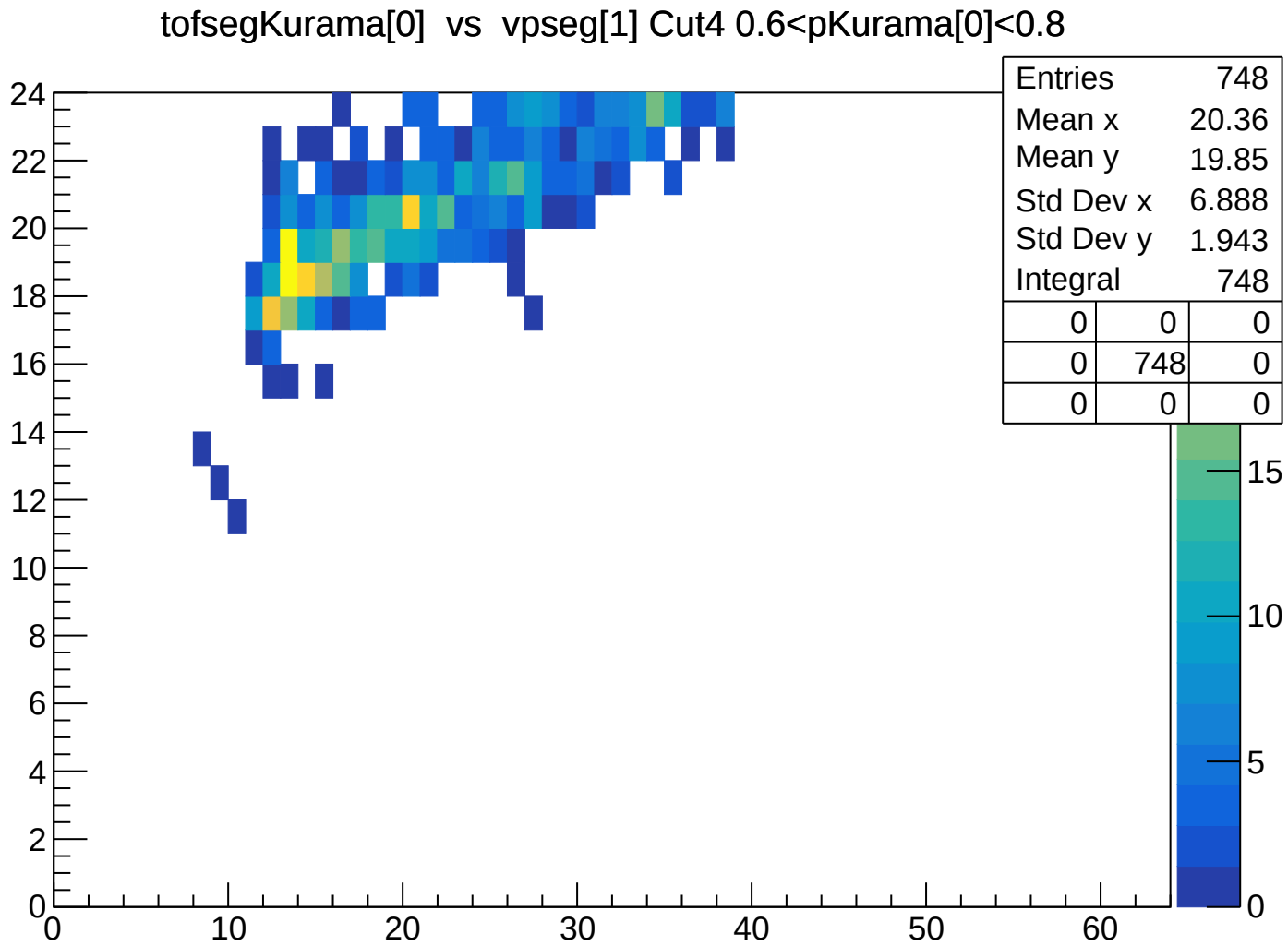

TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x 15.14
Mean y 9.533
Std Dev x 3.474
Std Dev y 4.695
Integral 152
0 0 0
0 152 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
1
2
3

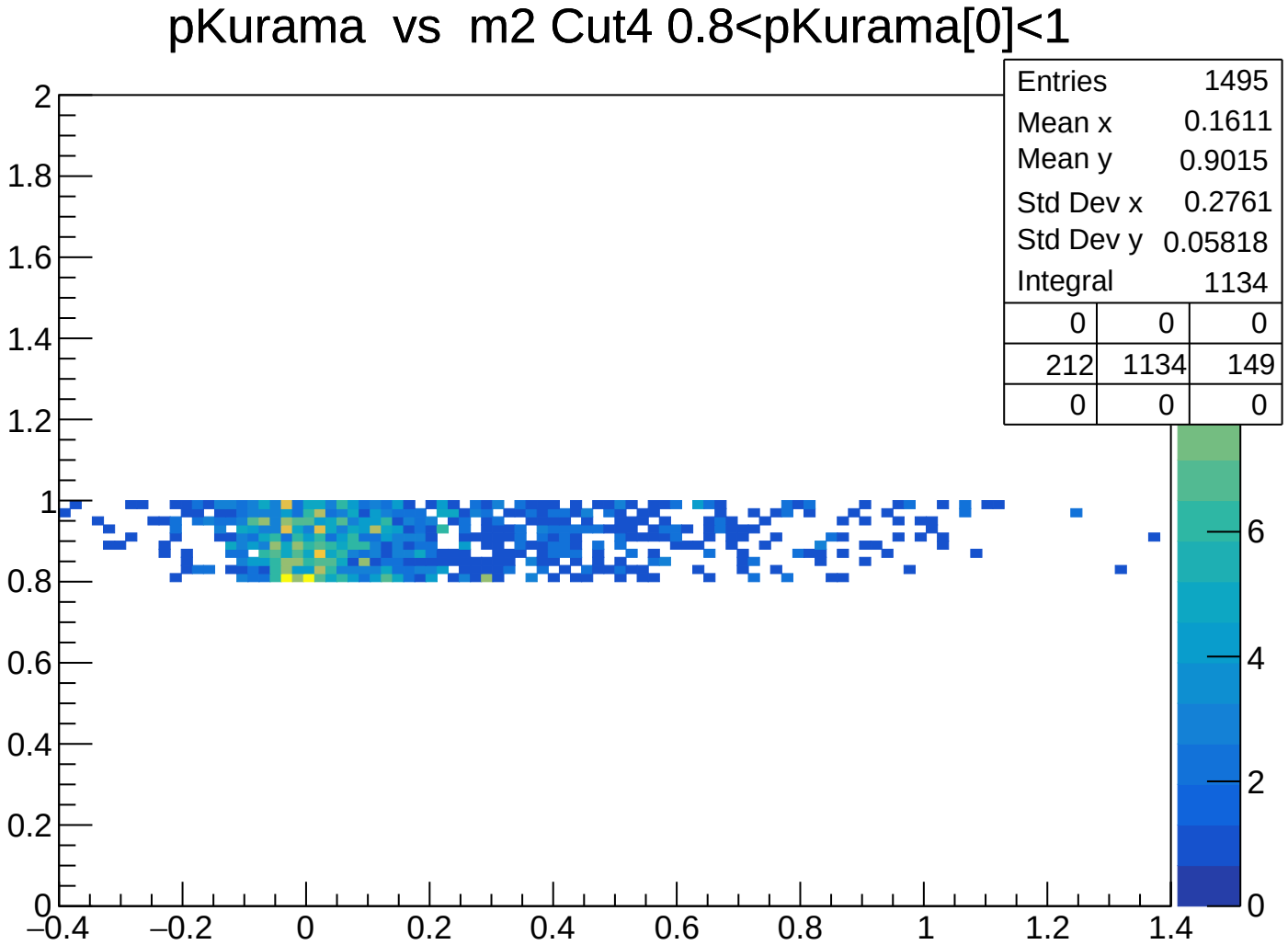

tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x 15.14
Mean y 21.52
Std Dev x 3.474
Std Dev y 1.338
Integral 152
0 0 0
0 152 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2
4
6

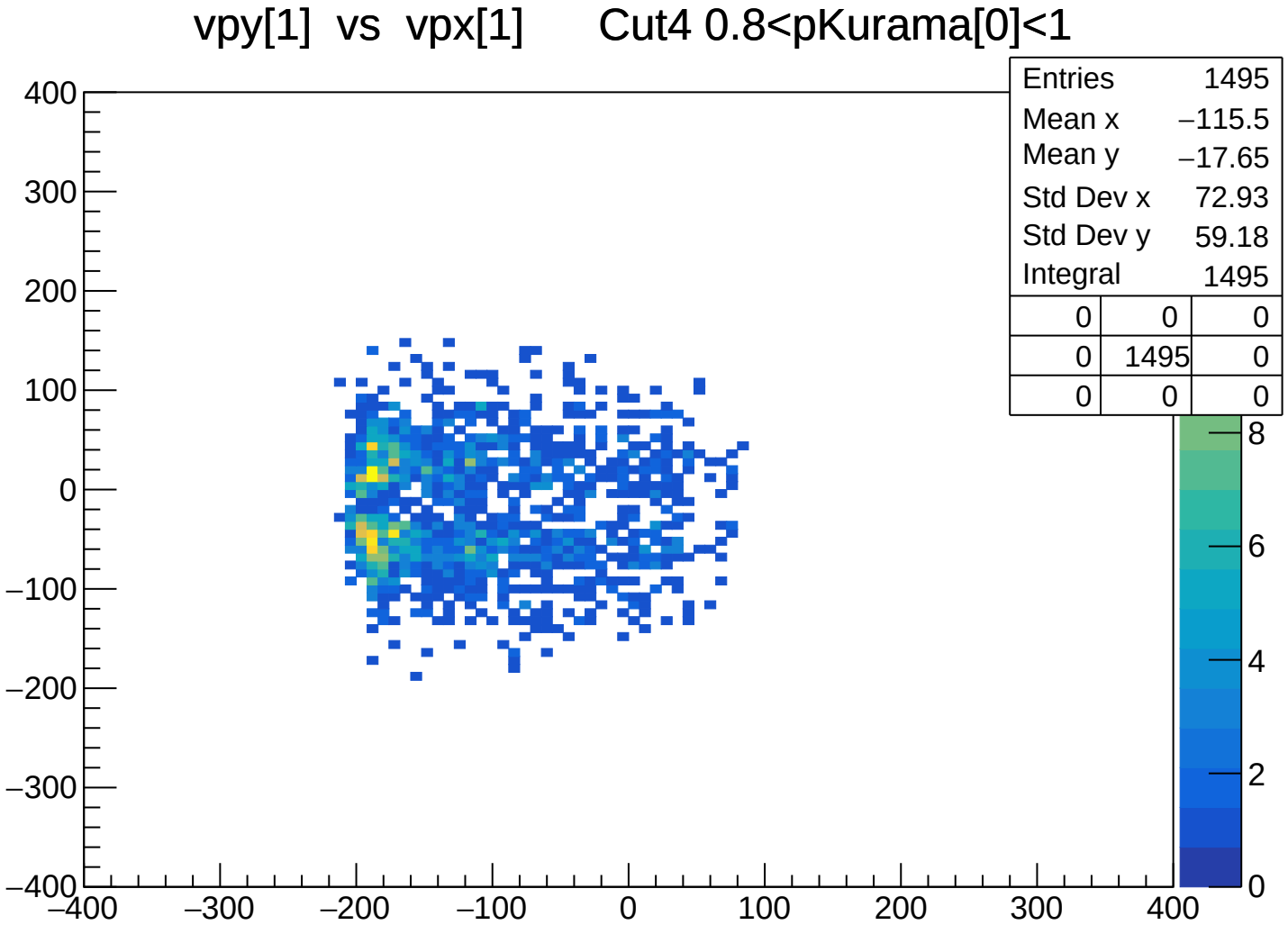

pKurama vs m2 Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x 0.09752
Mean y 0.7242
Std Dev x 0.1856
Std Dev y 0.05344
Integral 610
0 0 0
81 610 57
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
6
4
2
0

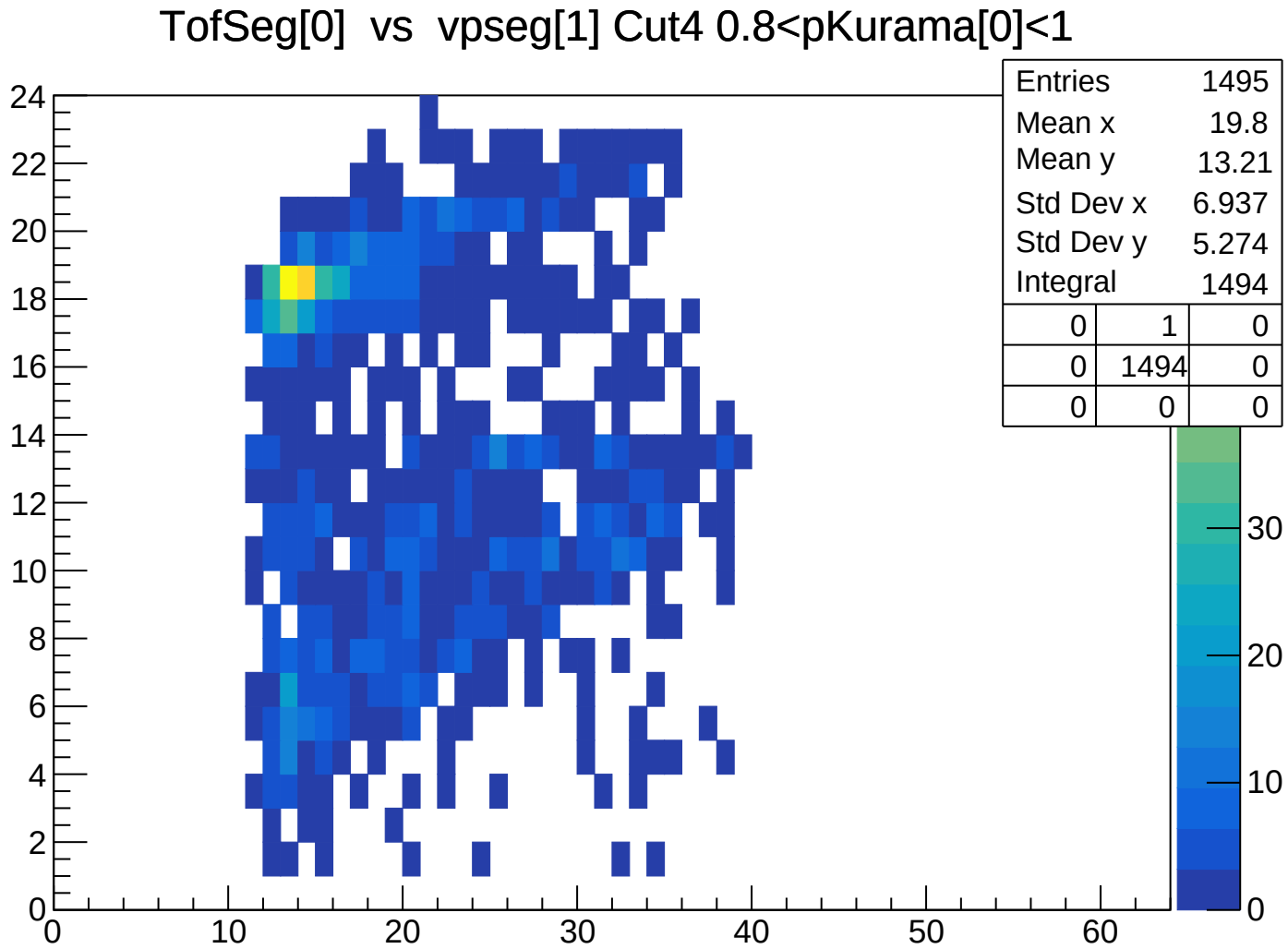

vpy[1] vs vpx[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x –109.7
Mean y –16.41
Std Dev x 72.43
Std Dev y 60.41
Integral 748
0 0 0
0 748 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400
6
4
2
0

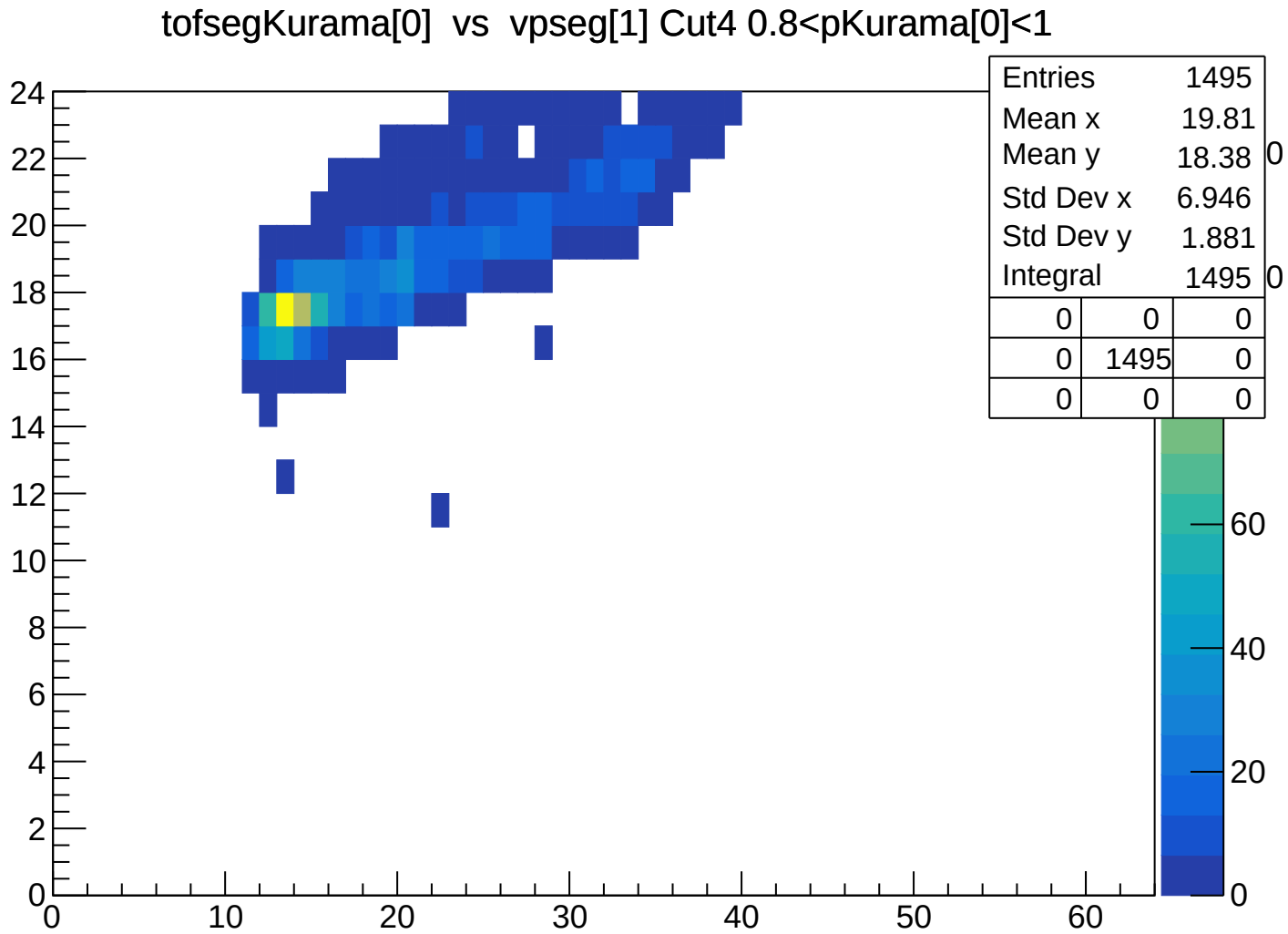

TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x 20.3
Mean y 12.48
Std Dev x 6.85
Std Dev y 5.478
Integral 744
0 4 0
0 744 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
2
4
6
8

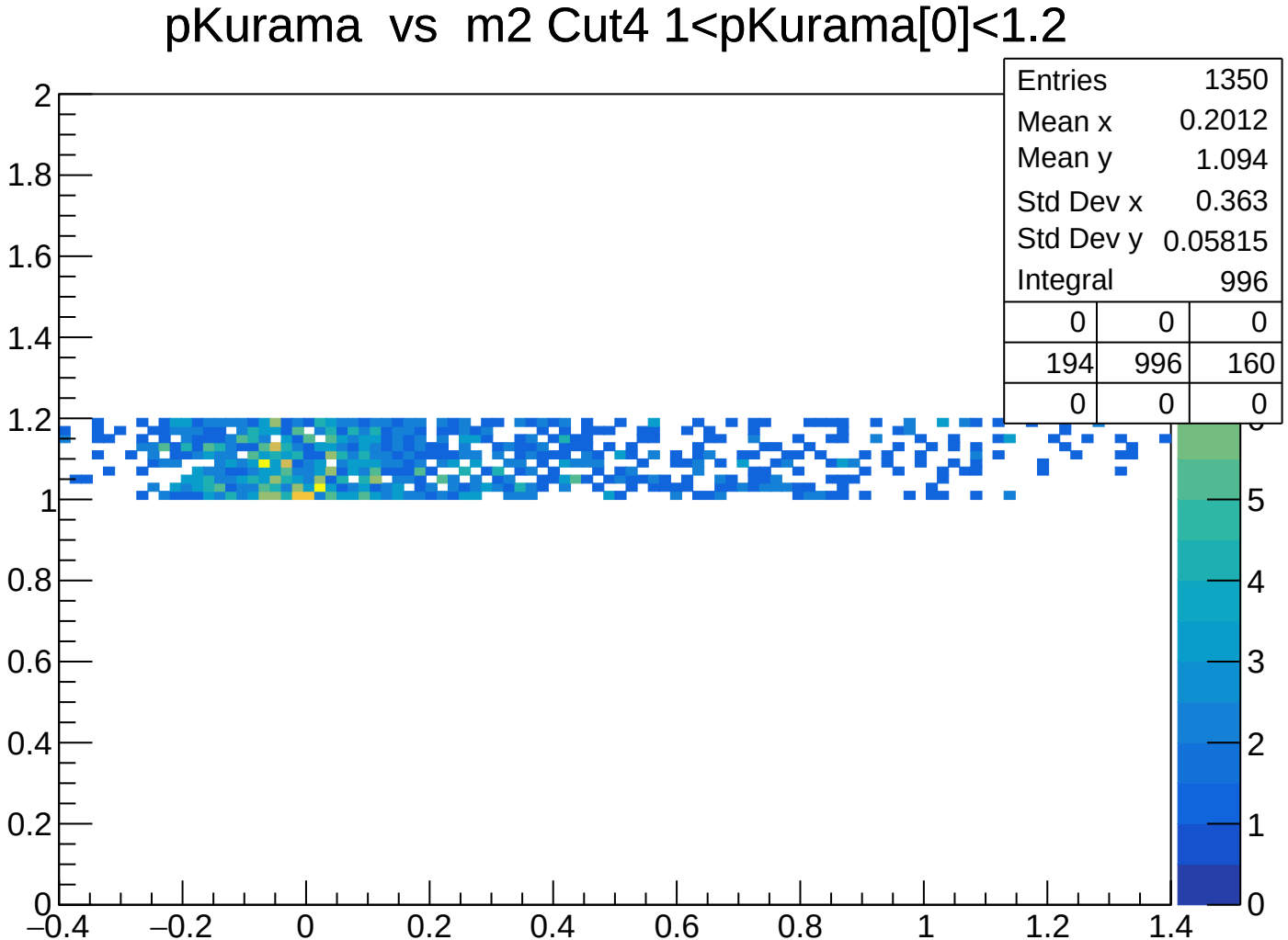

tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x 20.36
Mean y 19.85
Std Dev x 6.888
Std Dev y 1.943
Integral 748
0 0 0
0 748 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15

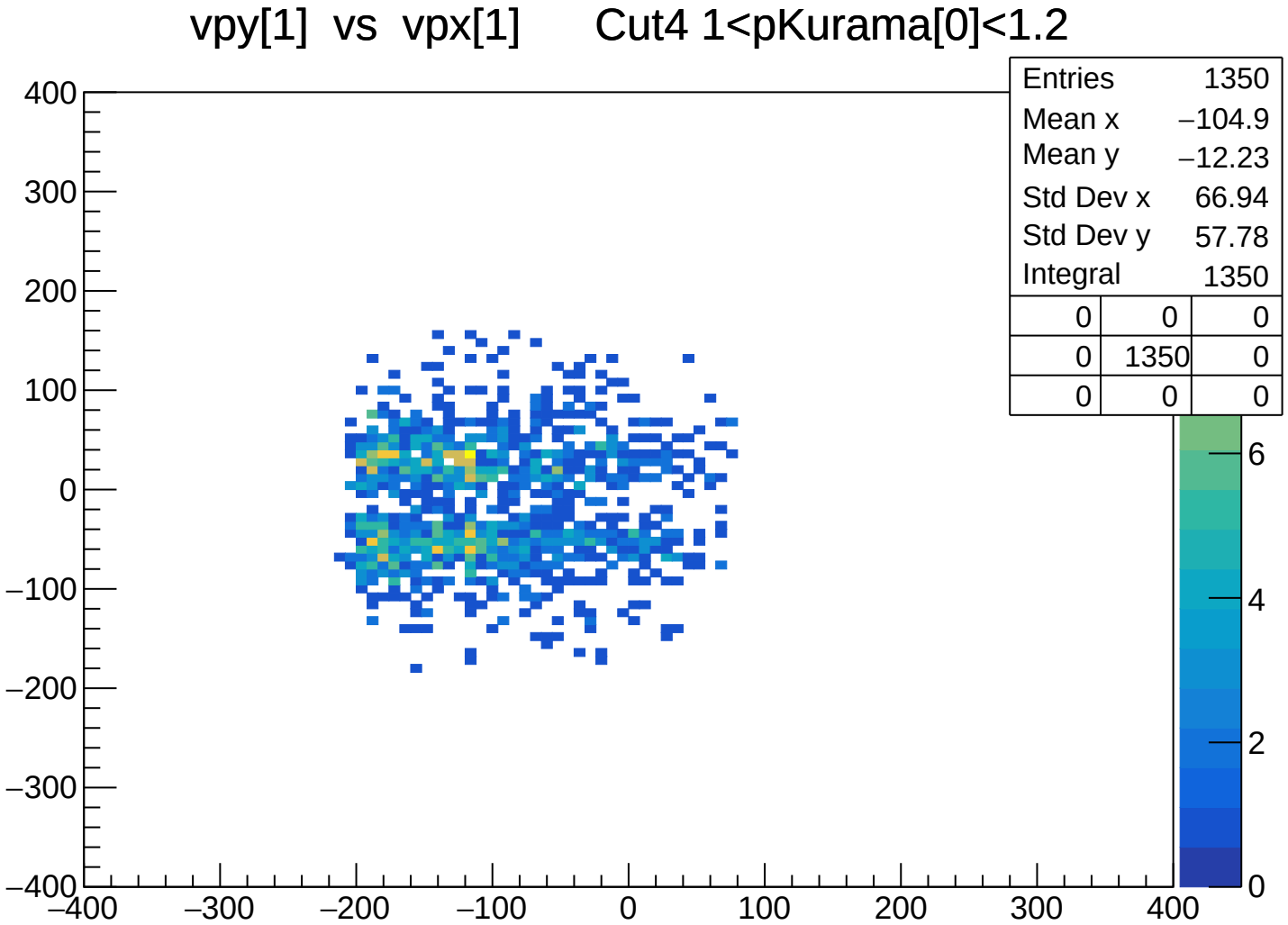

pKurama vs m2 Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x 0.1611
Mean y 0.9015
Std Dev x 0.2761
Std Dev y 0.05818
Integral 1134
0 0 0
212 1134 149
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
6
4
2
0

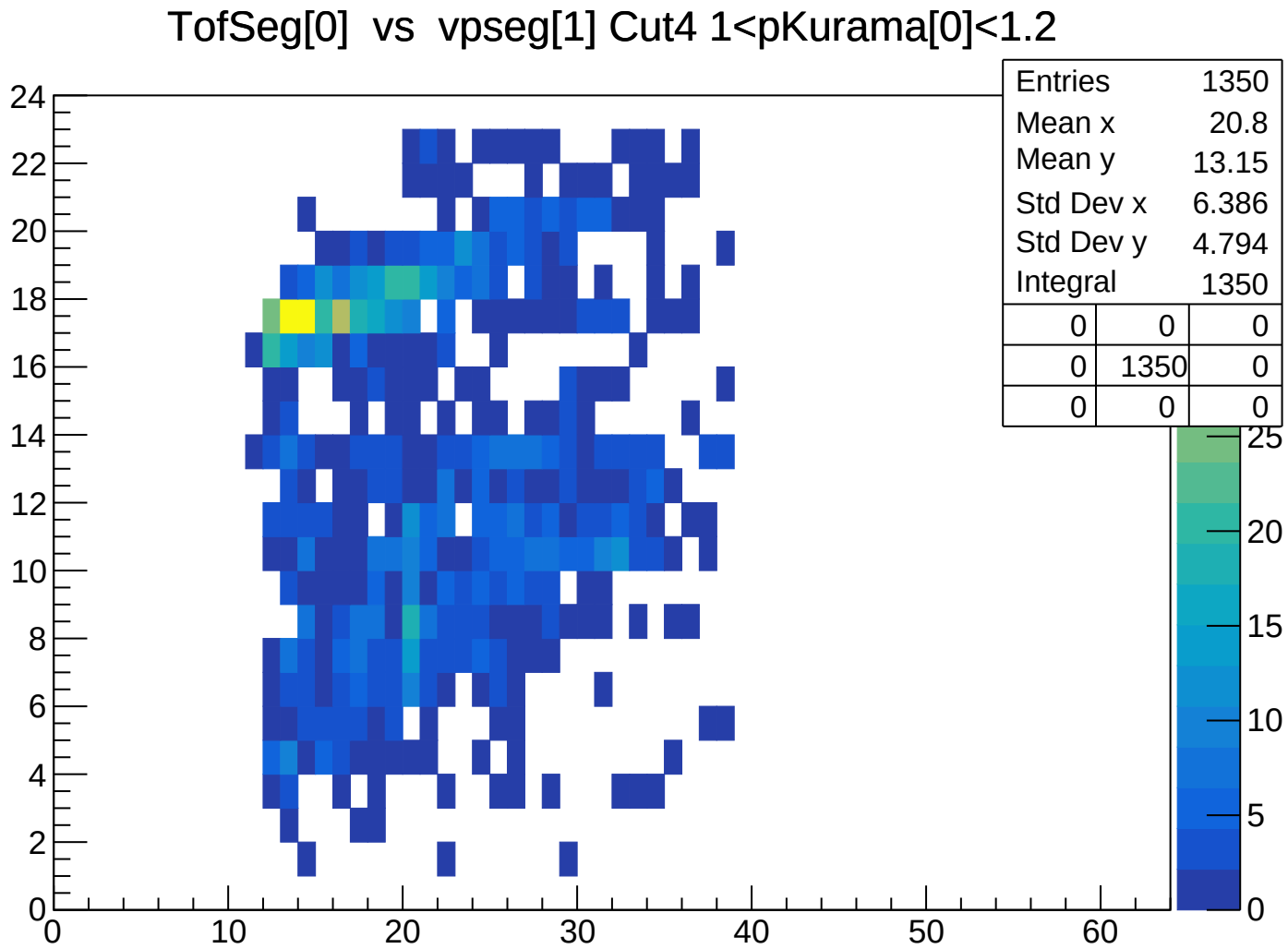

vpy[1] vs vpx[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x −115.5
Mean y −17.65
Std Dev x 72.93
Std Dev y 59.18
Integral 1495
0 0 0
0 1495 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
8
6
4
2
0

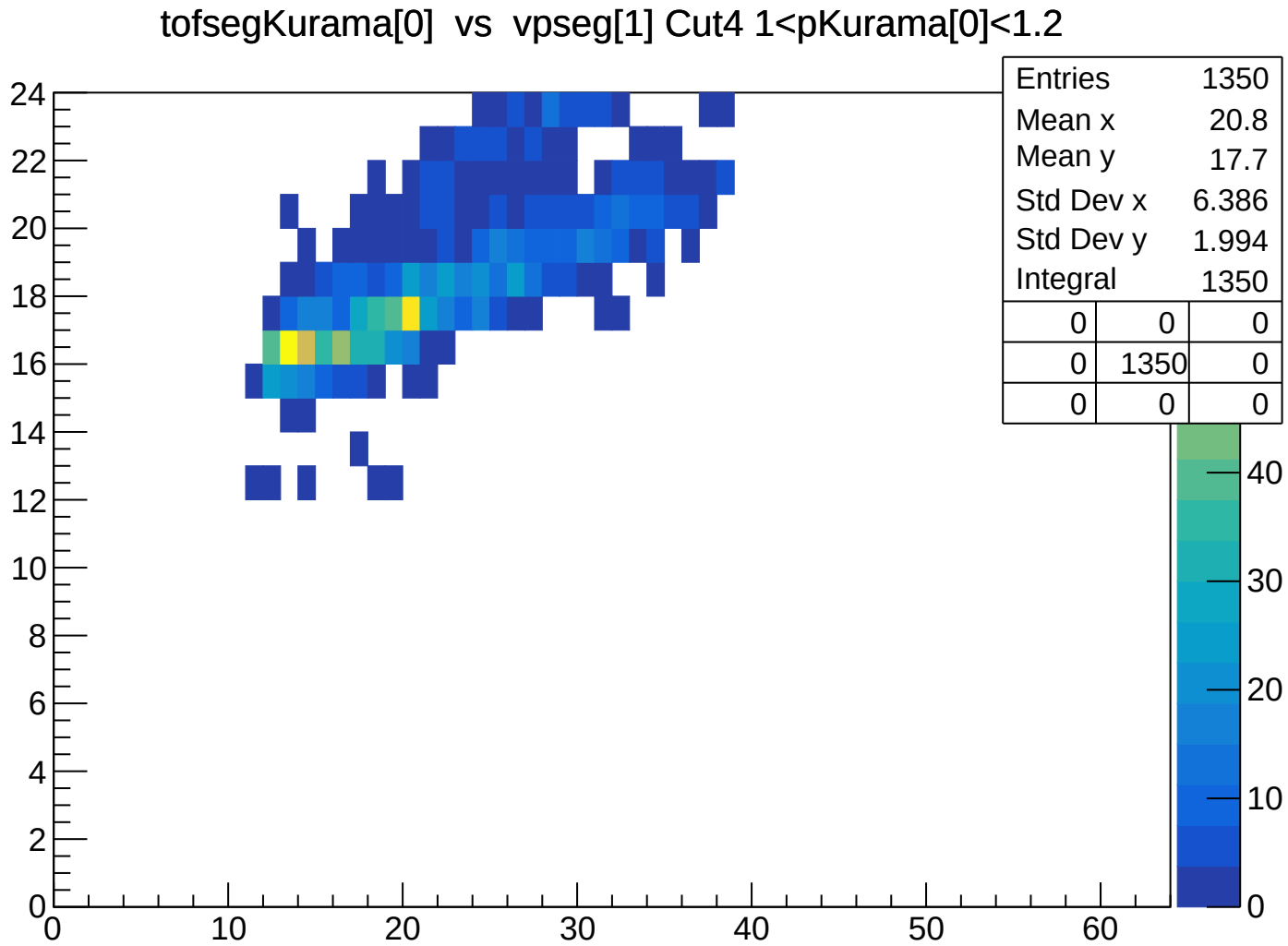

TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x 19.8
Mean y 13.21
Std Dev x 6.937
Std Dev y 5.274
Integral 1494
0 1 0
0 1494 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

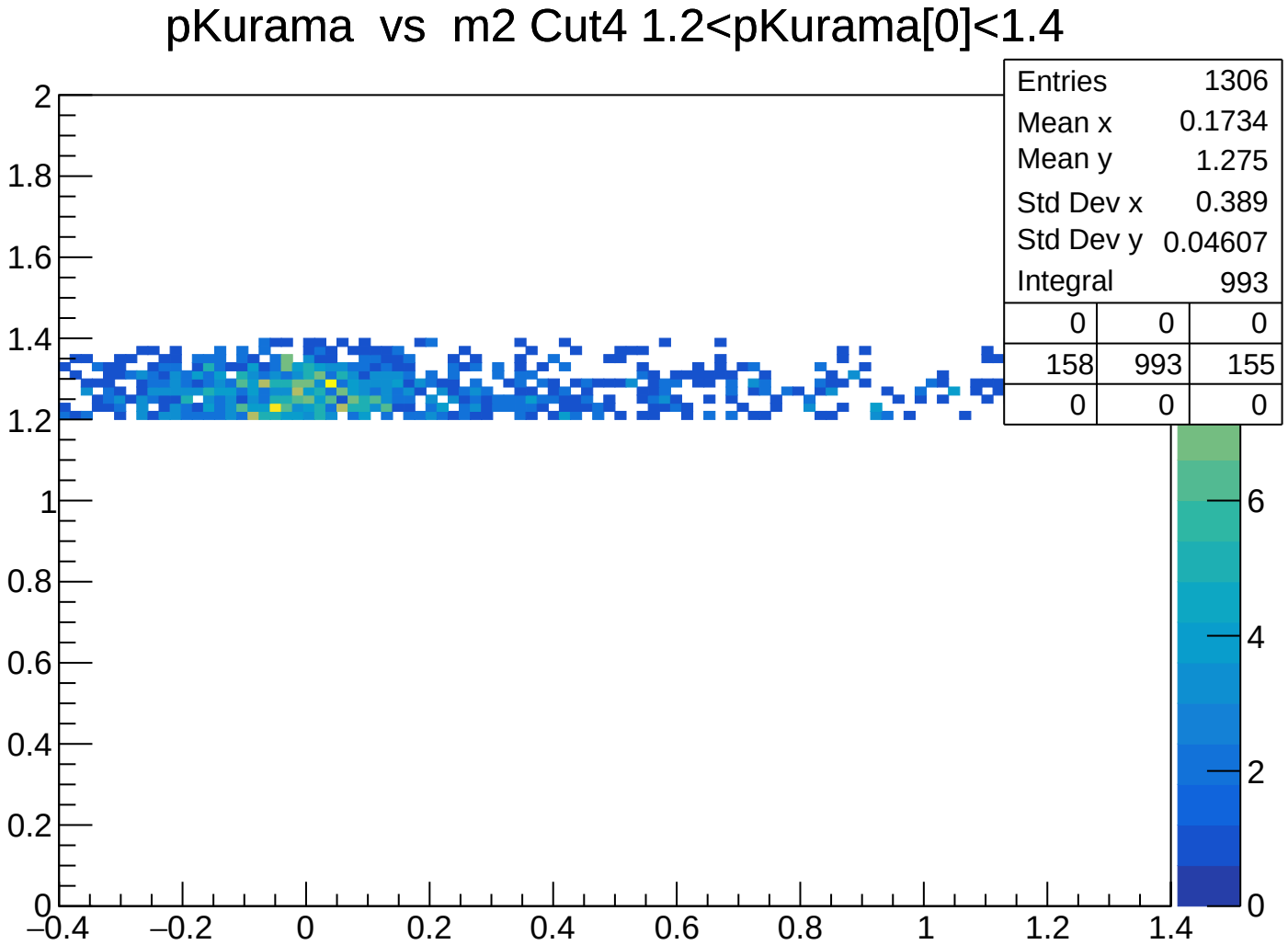

tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x 19.81
Mean y 18.38
Std Dev x 6.946
Std Dev y 1.881
Integral 1495
0 0 0
0 1495 0
0 0 0
0
0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
20
40
60

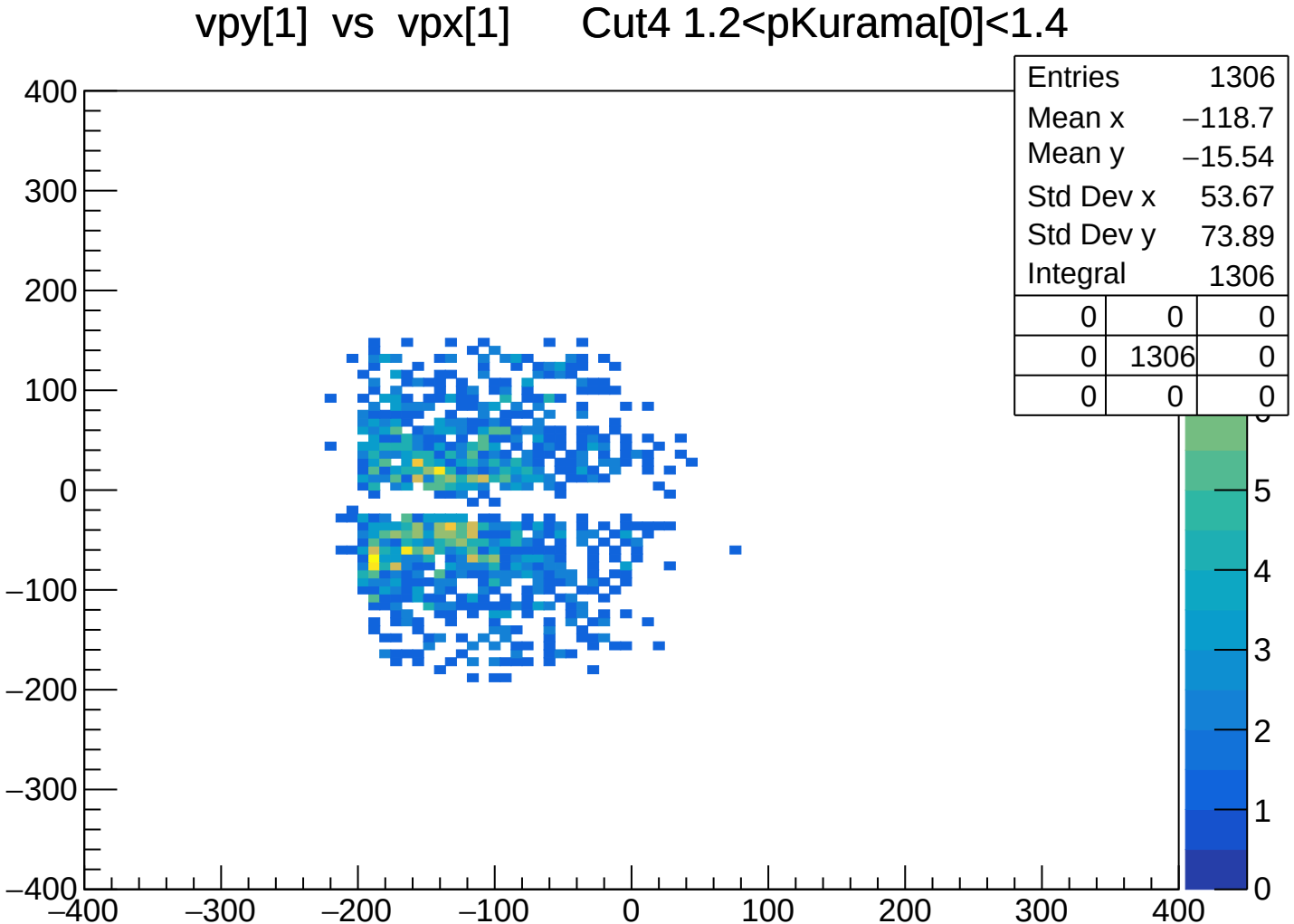

pKurama vs m2 Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x 0.2012
Mean y 1.094
Std Dev x 0.363
Std Dev y 0.05815
Integral 996
0 0 0
194 996 160
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
5
4
3
2
1
0

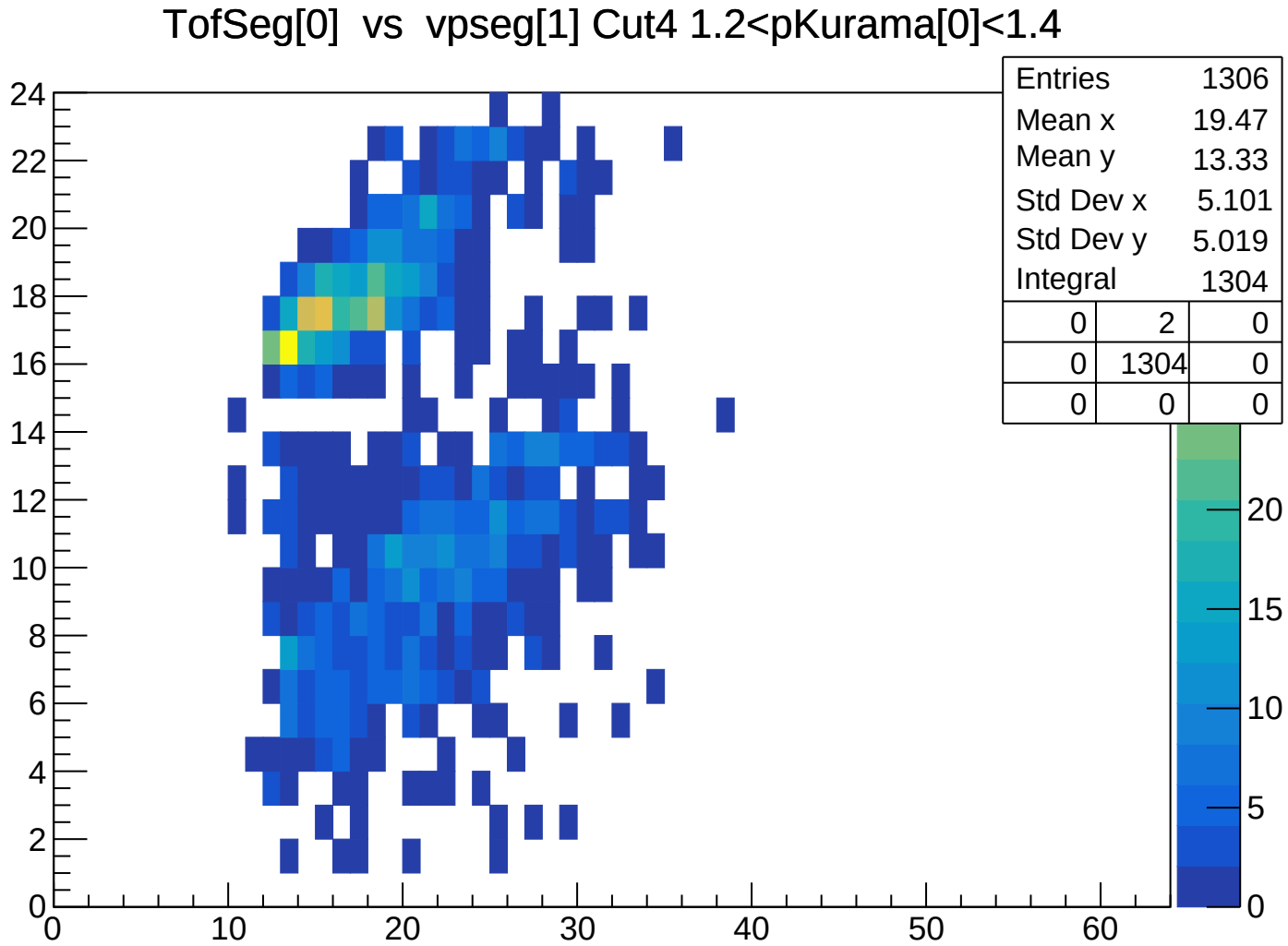

vpy[1] vs vpx[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x −104.9
Mean y −12.23
Std Dev x 66.94
Std Dev y 57.78
Integral 1350
0 0 0
0 1350 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
6
4
2
0

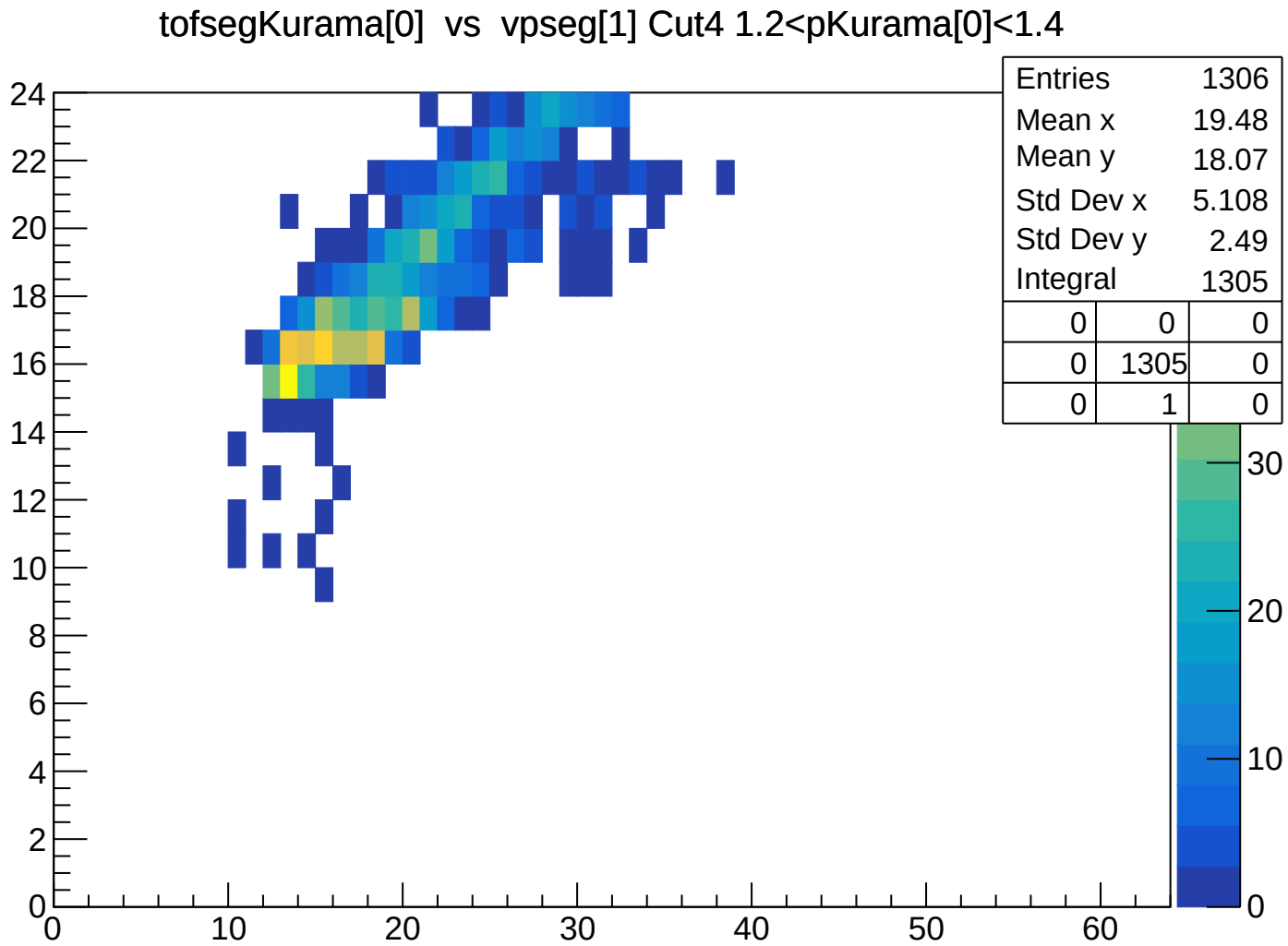

TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x 20.8
Mean y 13.15
Std Dev x 6.386
Std Dev y 4.794
Integral 1350
0 0 0
0 1350 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20
25

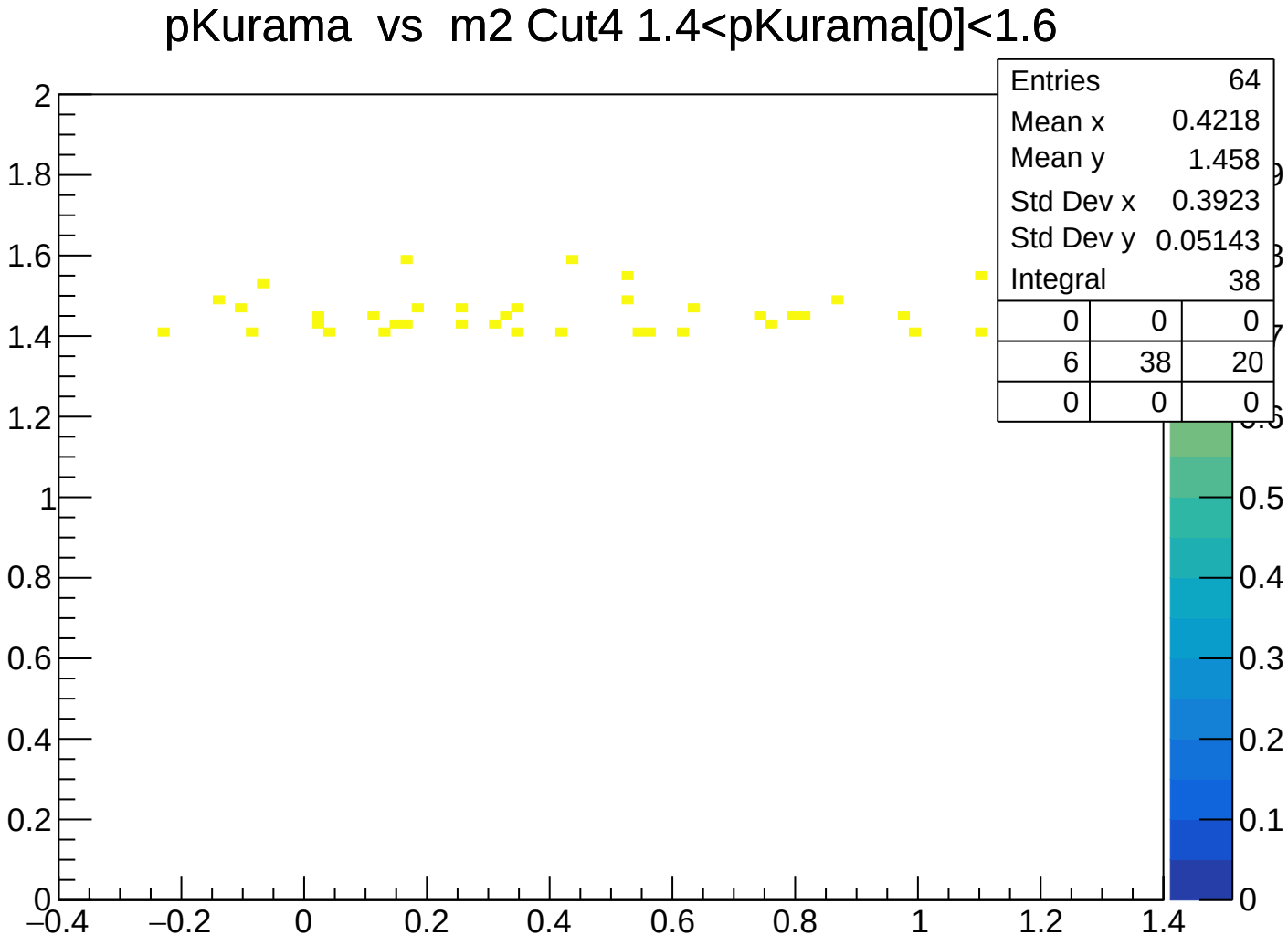

tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x 20.8
Mean y 17.7
Std Dev x 6.386
Std Dev y 1.994
Integral 1350
0 0 0
0 1350 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30
40

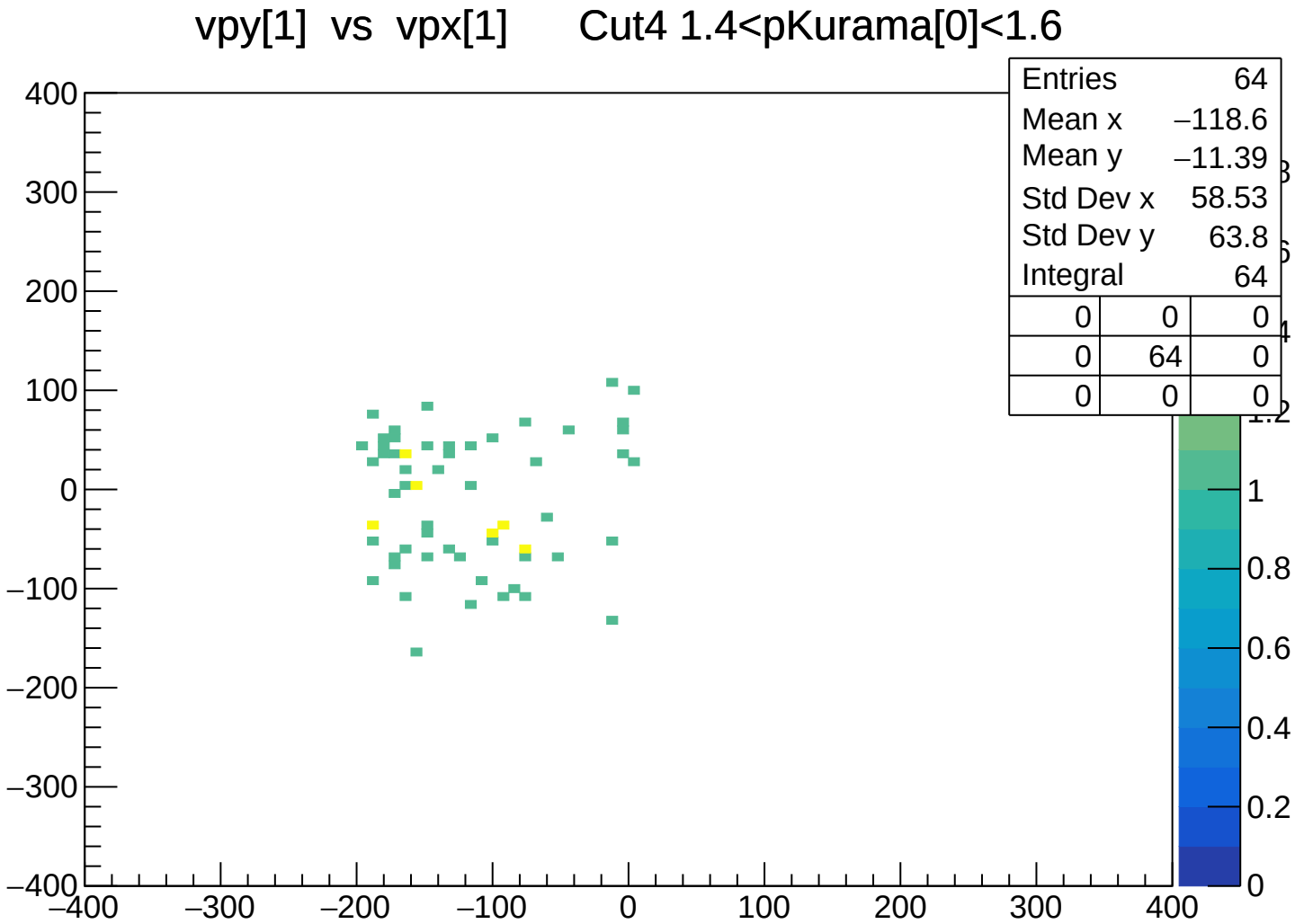

pKurama vs m2 Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x 0.1734
Mean y 1.275
Std Dev x 0.389
Std Dev y 0.04607
Integral 993
0 0 0
158 993 155
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
6
4
2
0

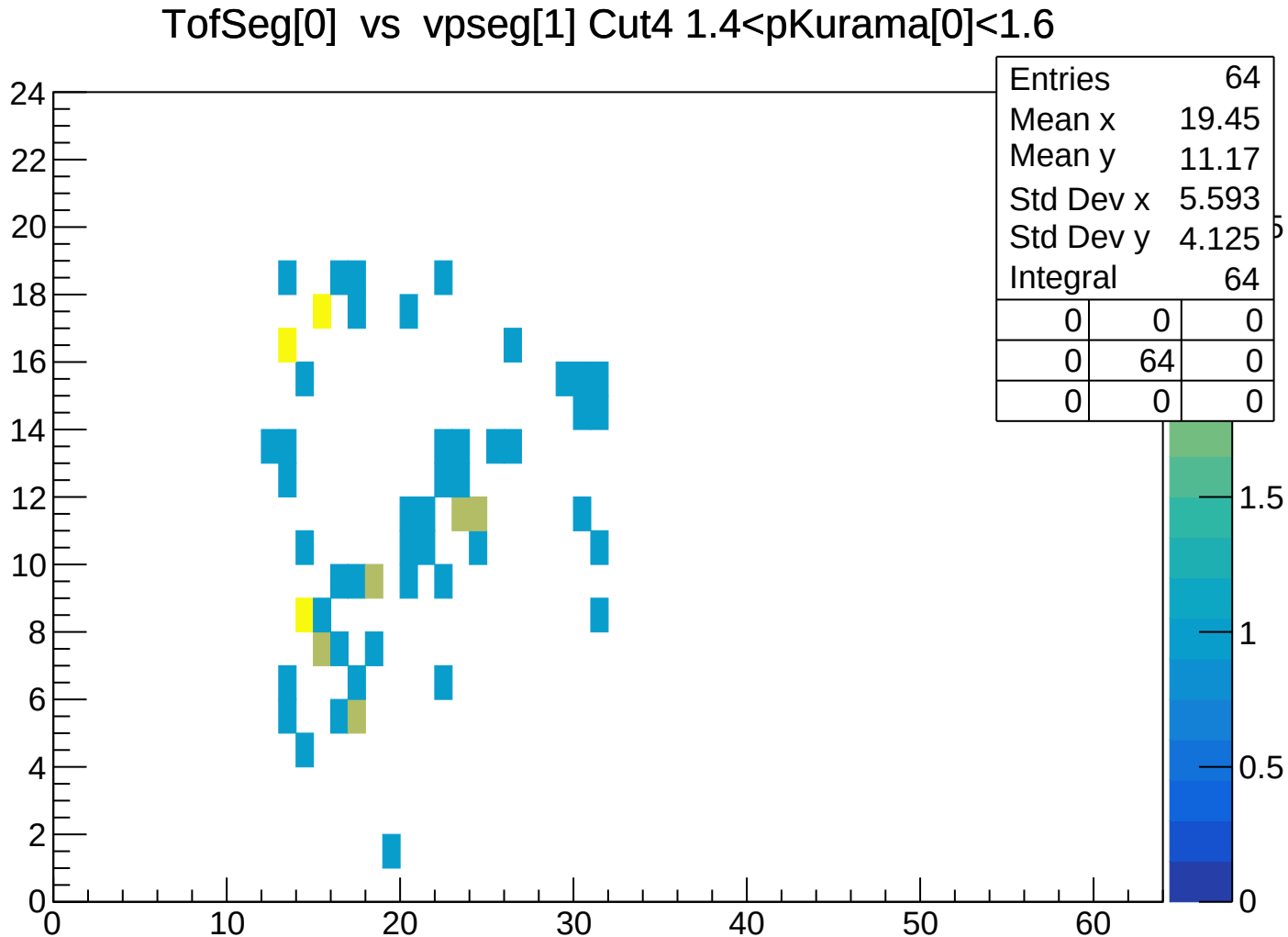

vpy[1] vs vpx[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x −118.7
Mean y −15.54
Std Dev x 53.67
Std Dev y 73.89
Integral 1306
0 0 0
0 1306 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
5
4
3
2
1
0

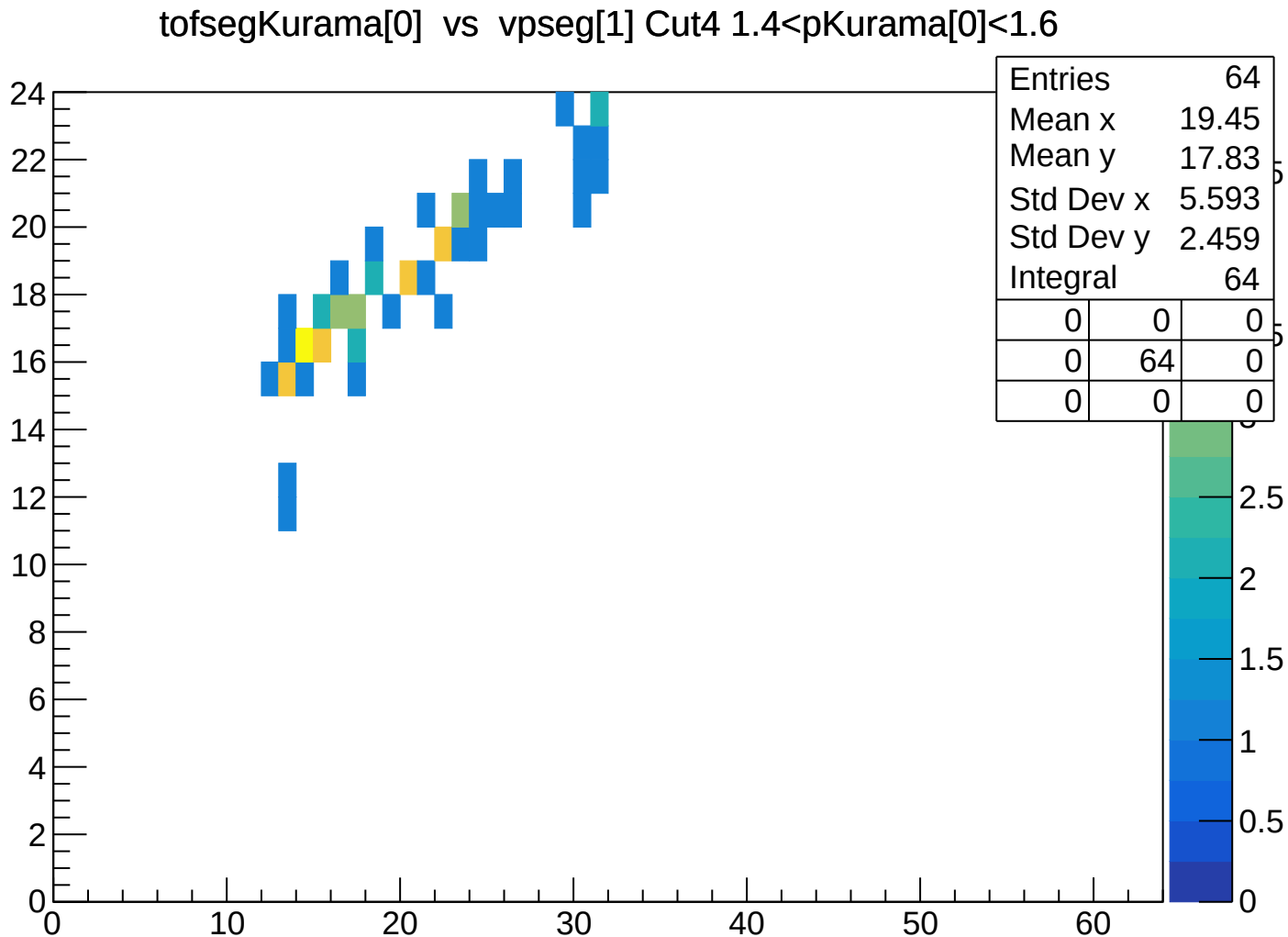

TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x 19.47
Mean y 13.33
Std Dev x 5.101
Std Dev y 5.019
Integral 1304
0 2 0
0 1304 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
5
10
15
20

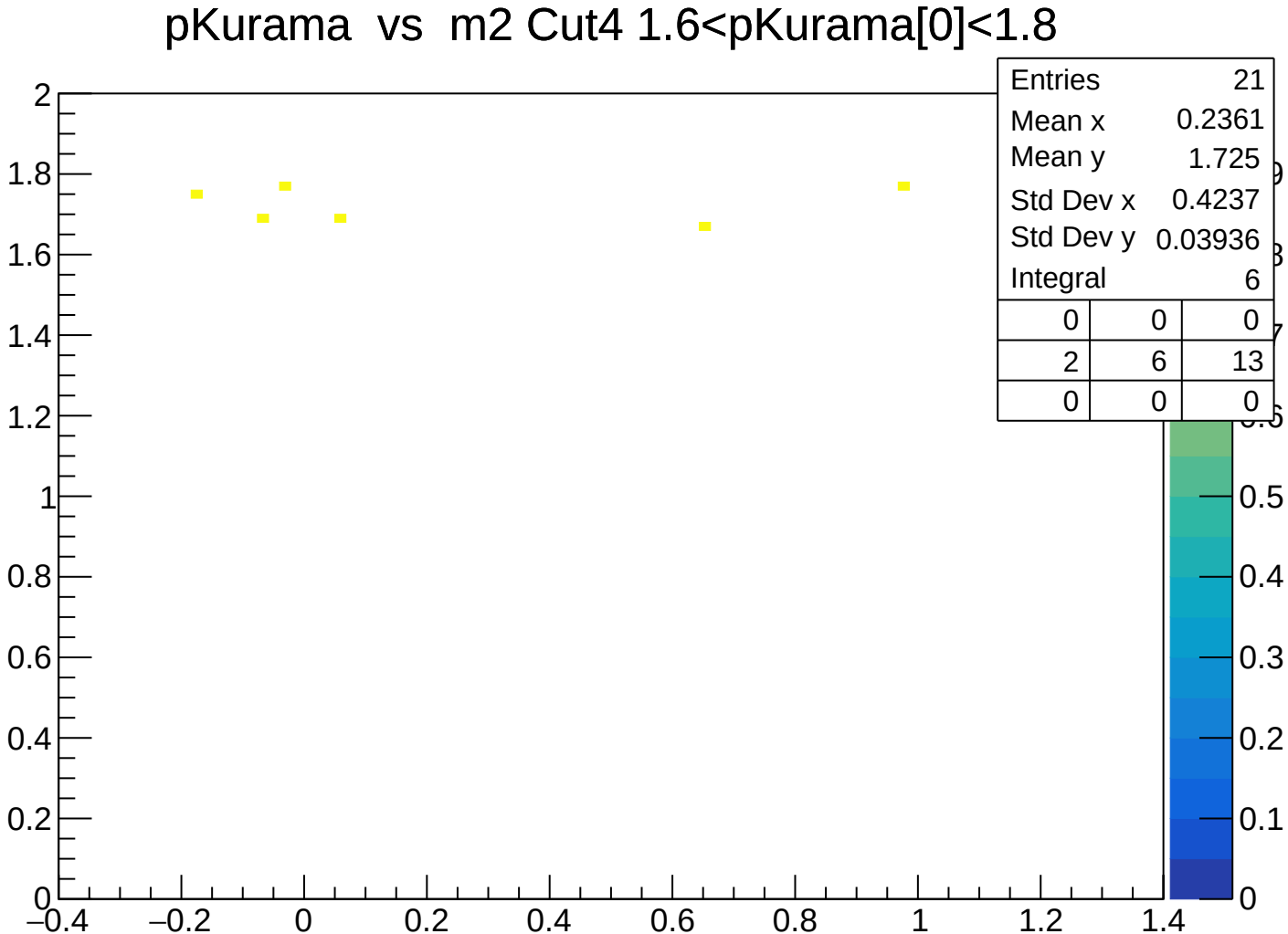

tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x 19.48
Mean y 18.07
Std Dev x 5.108
Std Dev y 2.49
Integral 1305
0 0 0
0 1305 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
10
20
30

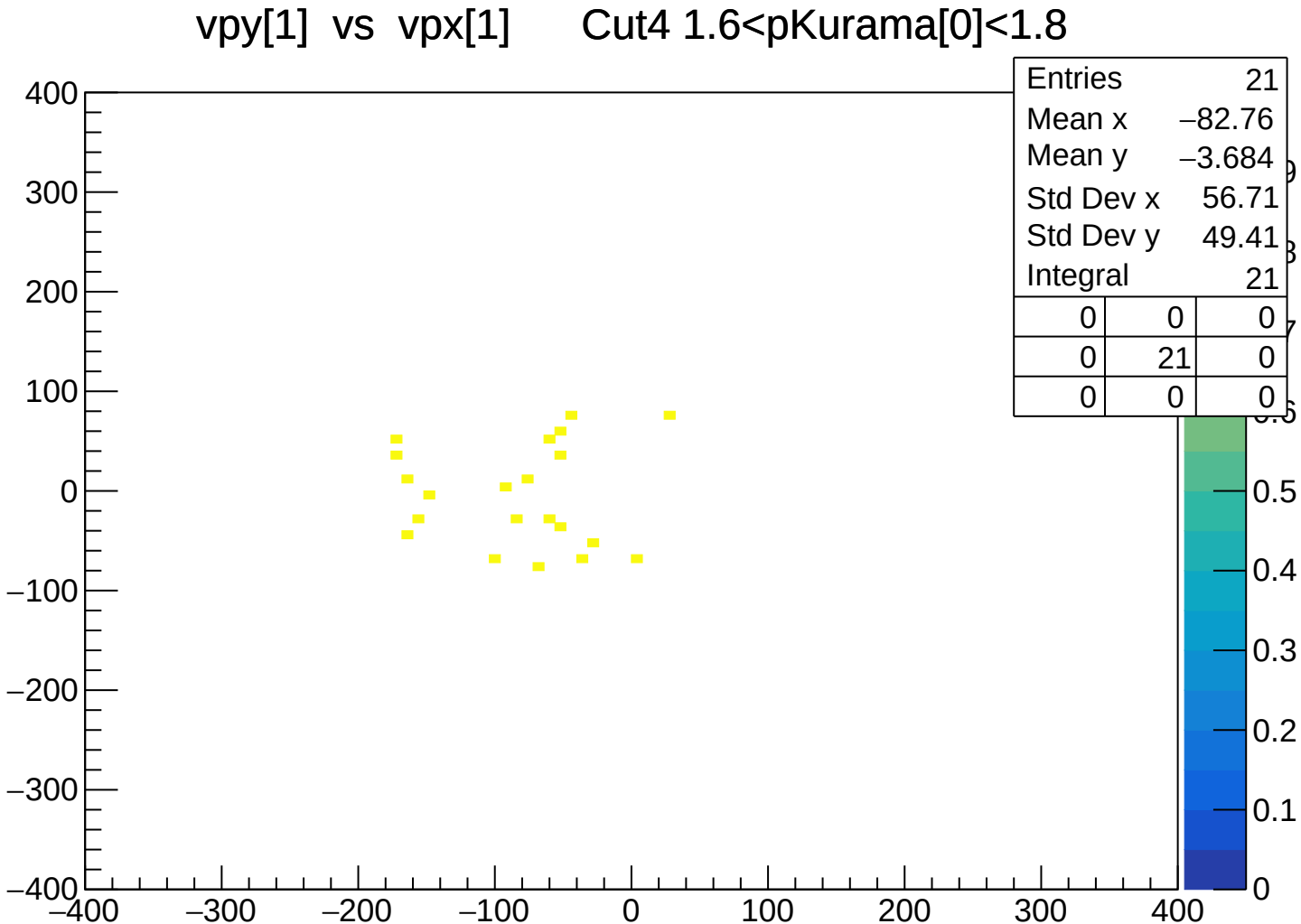

pKurama vs m2 Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 0.4218
Mean y 1.458
Std Dev x 0.3923
Std Dev y 0.05143
Integral 38
0 0 0
6 38 20
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0

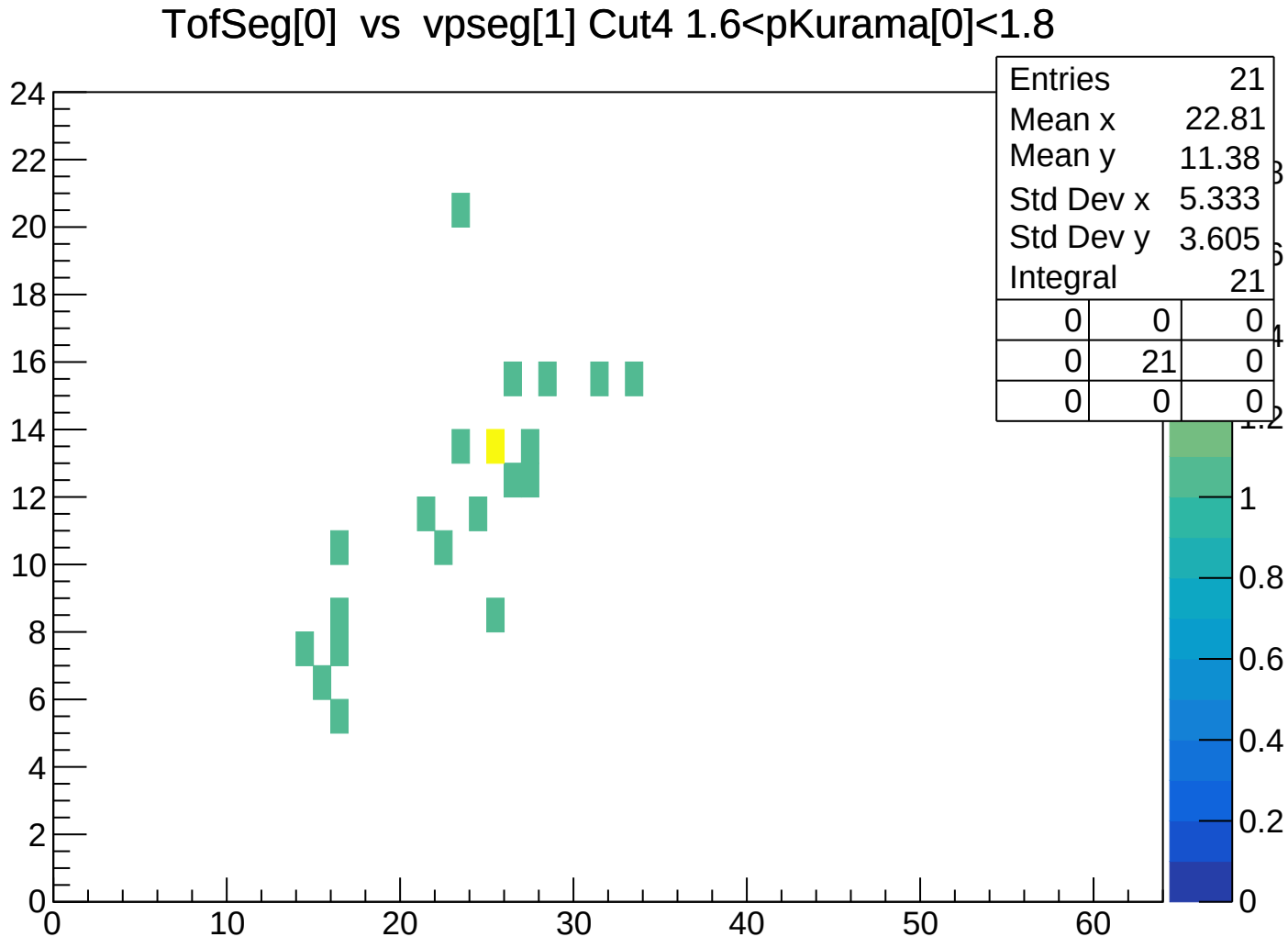

vpy[1] vs vpx[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x −118.6
Mean y −11.39
Std Dev x 58.53
Std Dev y 63.8
Integral 64
0 0 0
0 64 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
1
0.8
0.6
0.4
0.2
0

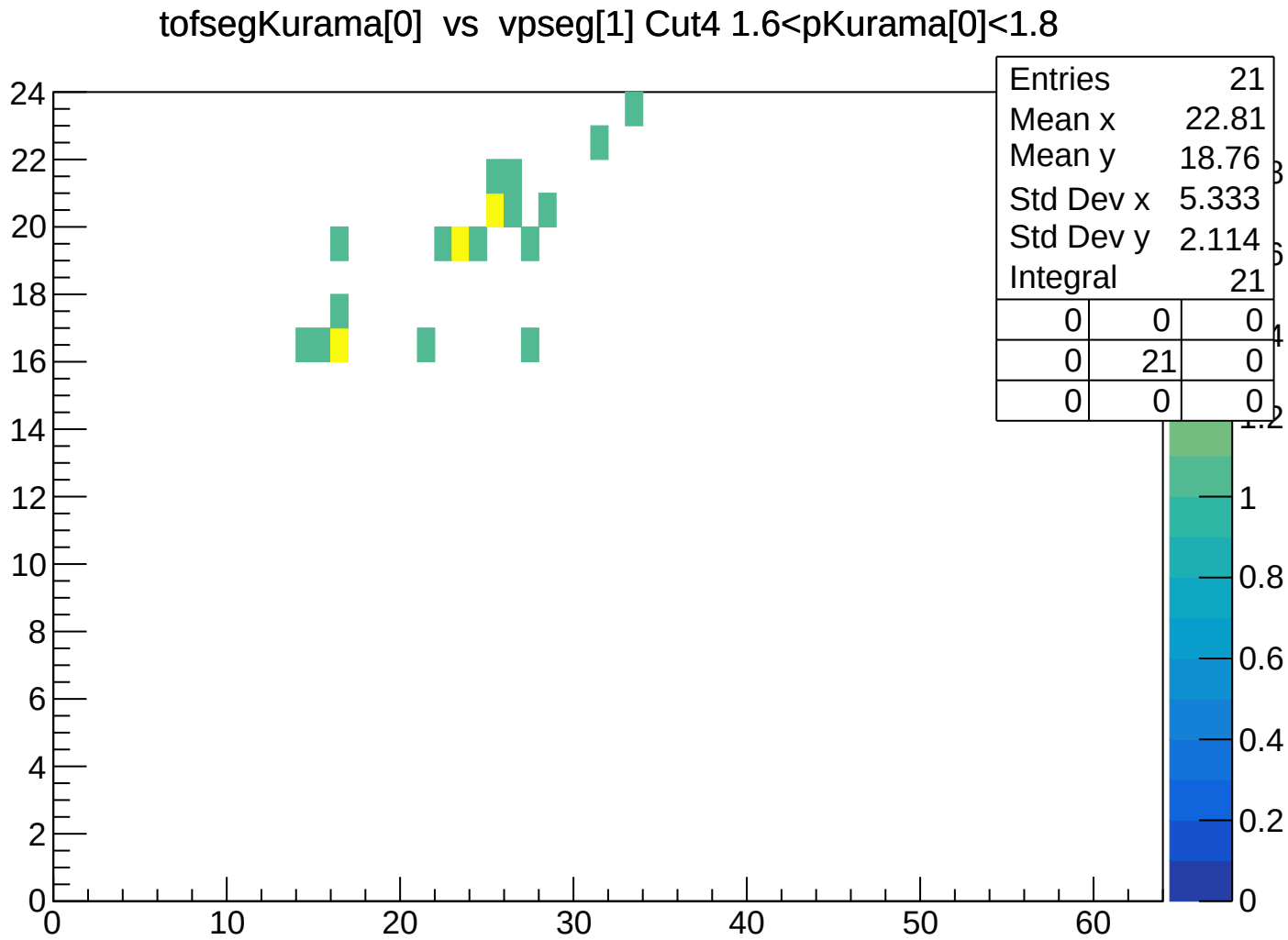

TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 19.45
Mean y 11.17
Std Dev x 5.593
Std Dev y 4.125
Integral 64
0 0 0
0 64 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.5
1
1.5

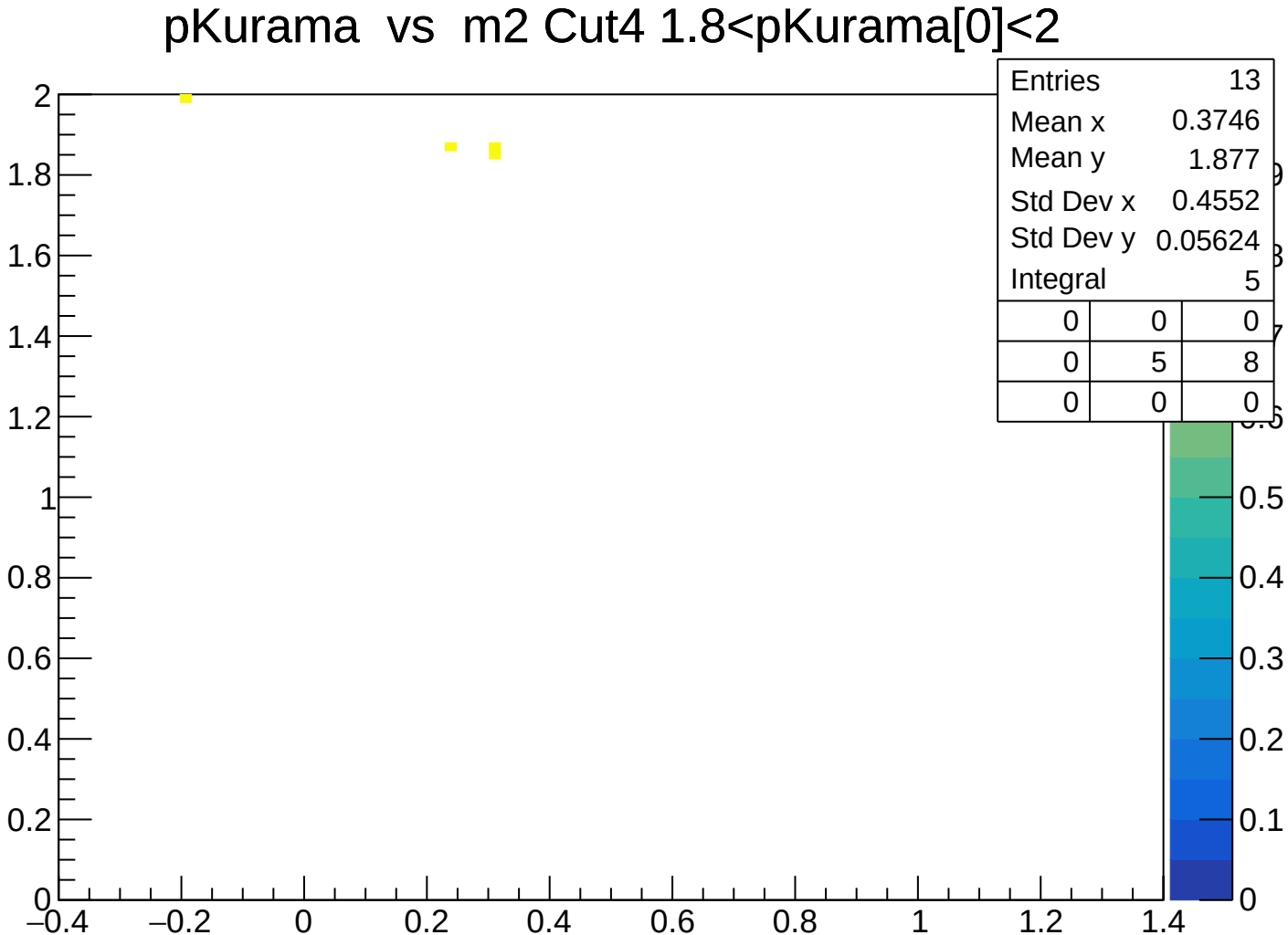

tofsegKurama[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 19.45
Mean y 17.83
Std Dev x 5.593
Std Dev y 2.459
Integral 64
0 0 0
0 64 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.5
1
1.5
2
2.5

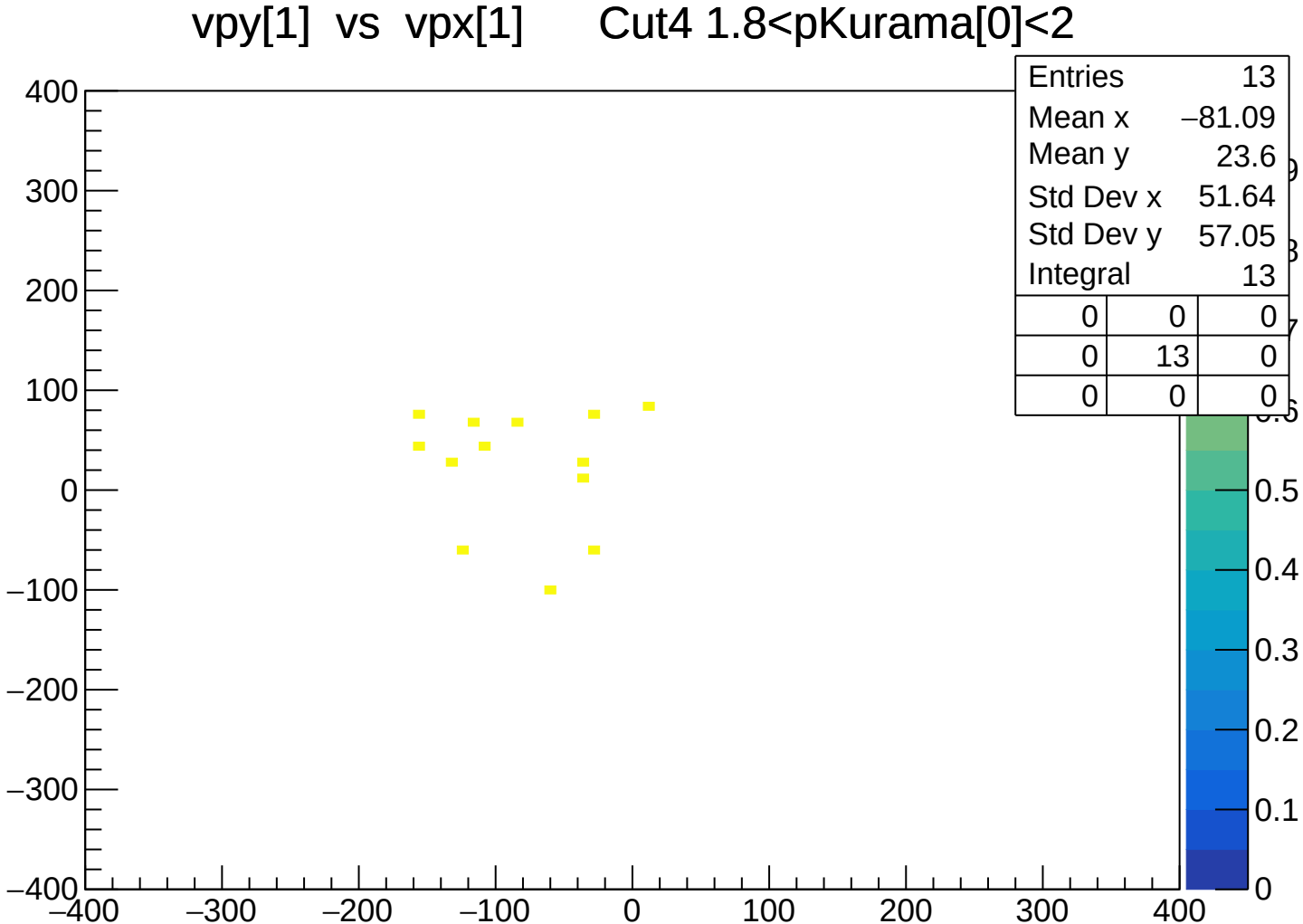

pKurama vs m2 Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 0.2361
Mean y 1.725
Std Dev x 0.4237
Std Dev y 0.03936
Integral 6
0 0 0
2 6 13
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0

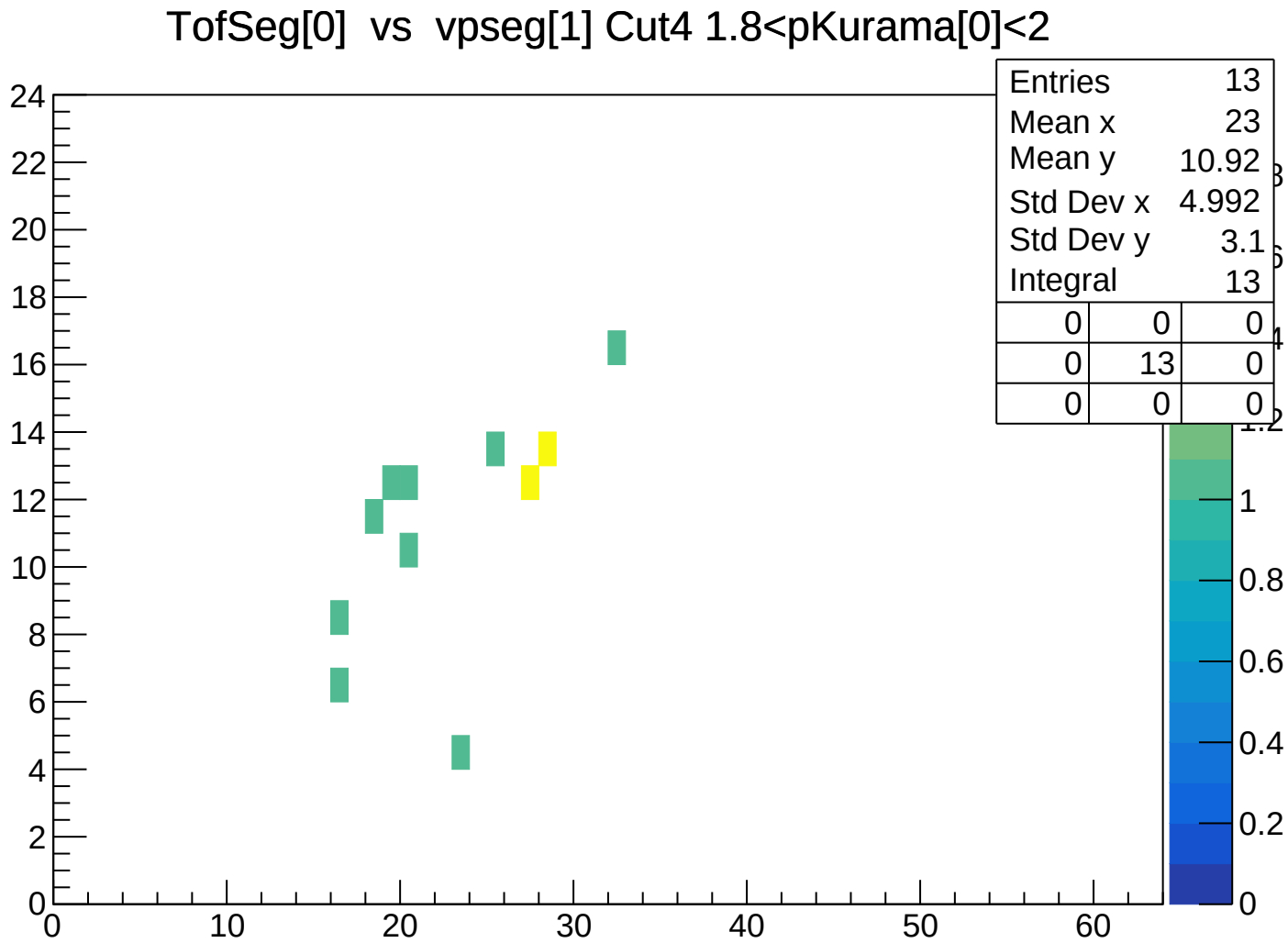

vpy[1] vs vpx[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x −82.76
Mean y −3.684
Std Dev x 56.71
Std Dev y 49.41
Integral 21
0 0 0
0 21 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
0.5
0.4
0.3
0.2
0.1
0

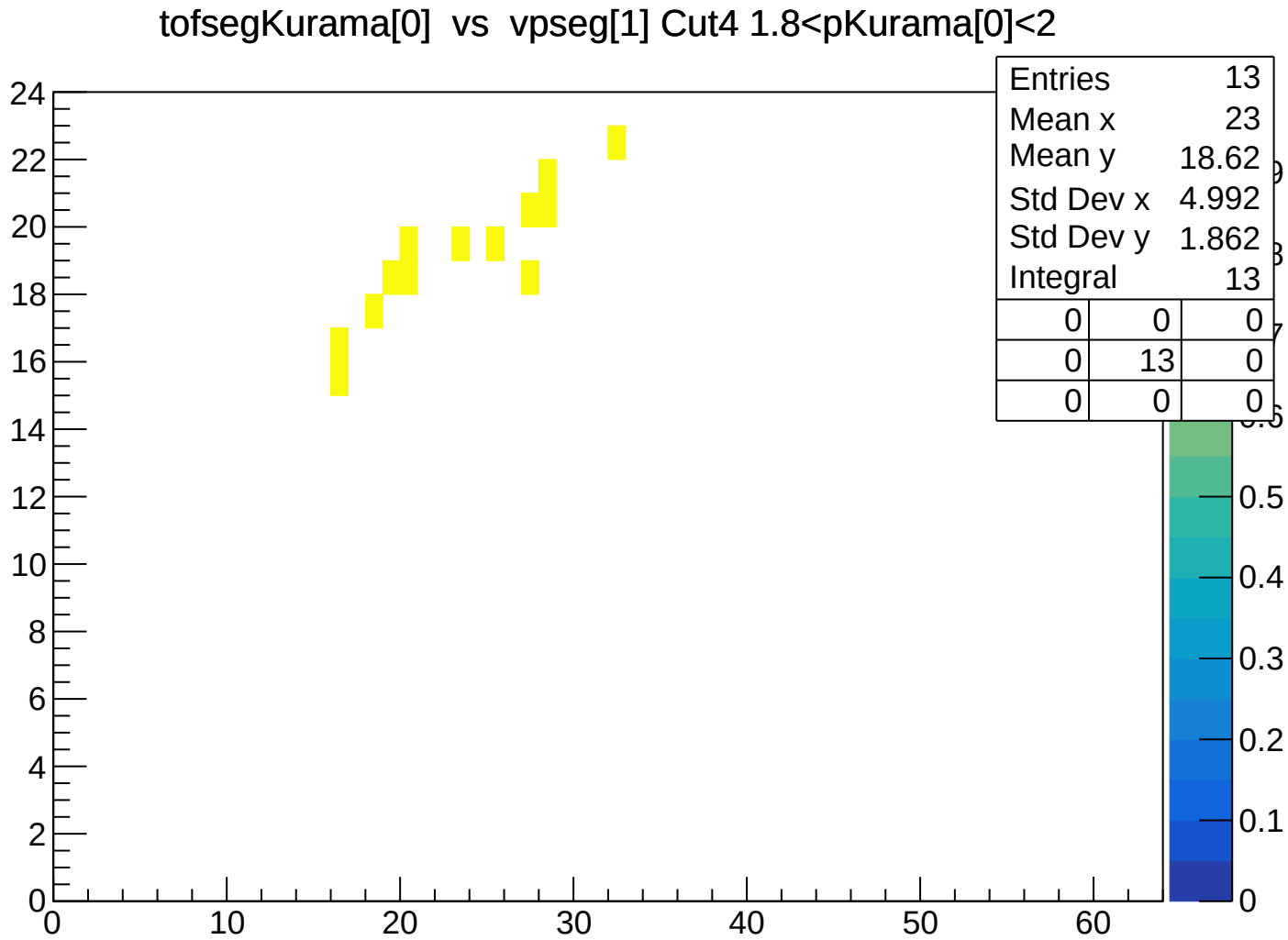

TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 22.81
Mean y 11.38
Std Dev x 5.333
Std Dev y 3.605
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.2
0.4
0.6
0.8
1


tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 22.81
Mean y 18.76
Std Dev x 5.333
Std Dev y 2.114
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
0.2
0.4
0.6
0.8
1

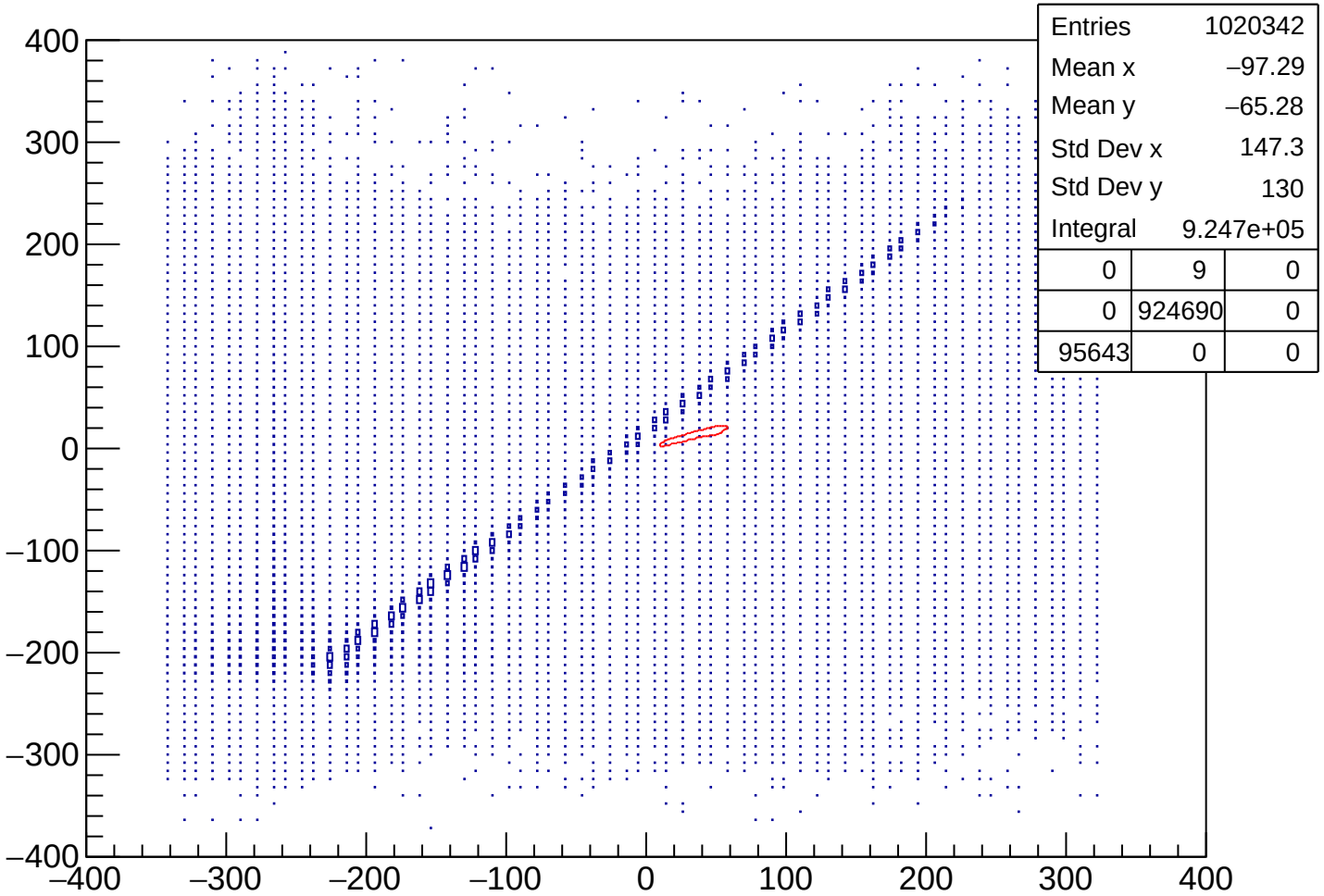

pKurama vs m2 Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 0.3746
Mean y 1.877
Std Dev x 0.4552
Std Dev y 0.05624
Integral 5
0 0 0
0 5 8
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0.5
0.4
0.3
0.2
0.1
0


vpy[1] vs vpx[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x −81.09
Mean y 23.6
Std Dev x 51.64
Std Dev y 57.05
Integral 13
0 0 0
0 13 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

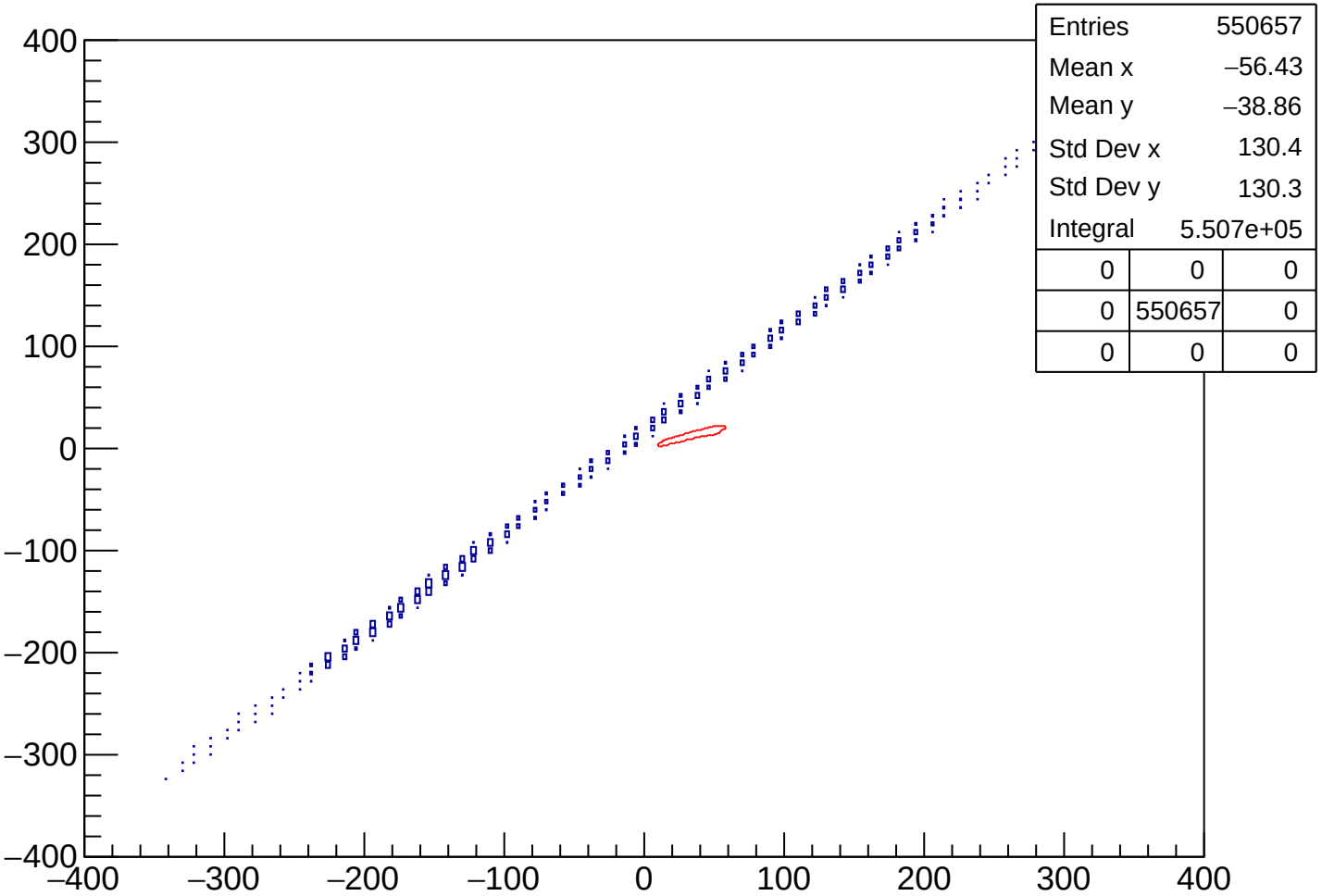

TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 23
Mean y 10.92
Std Dev x 4.992
Std Dev y 3.1
Integral 13
0 0 0
0 13 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.2
0.4
0.6
0.8
1

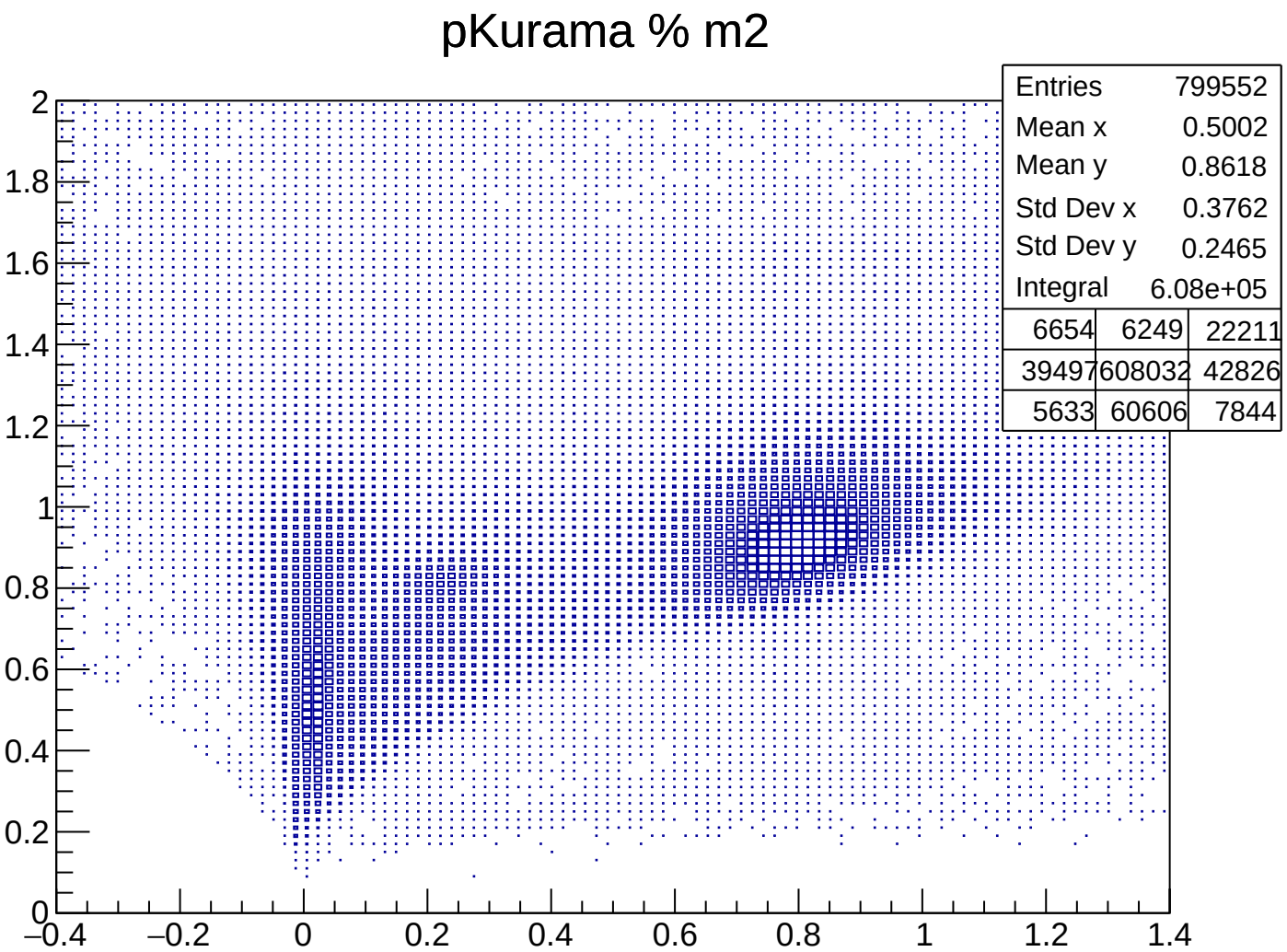

tofsegKurama[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 23
Mean y 18.62
Std Dev x 4.992
Std Dev y 1.862
Integral 13
0 0 0
0 13 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60
0
0.1
0.2
0.3
0.4
0.5

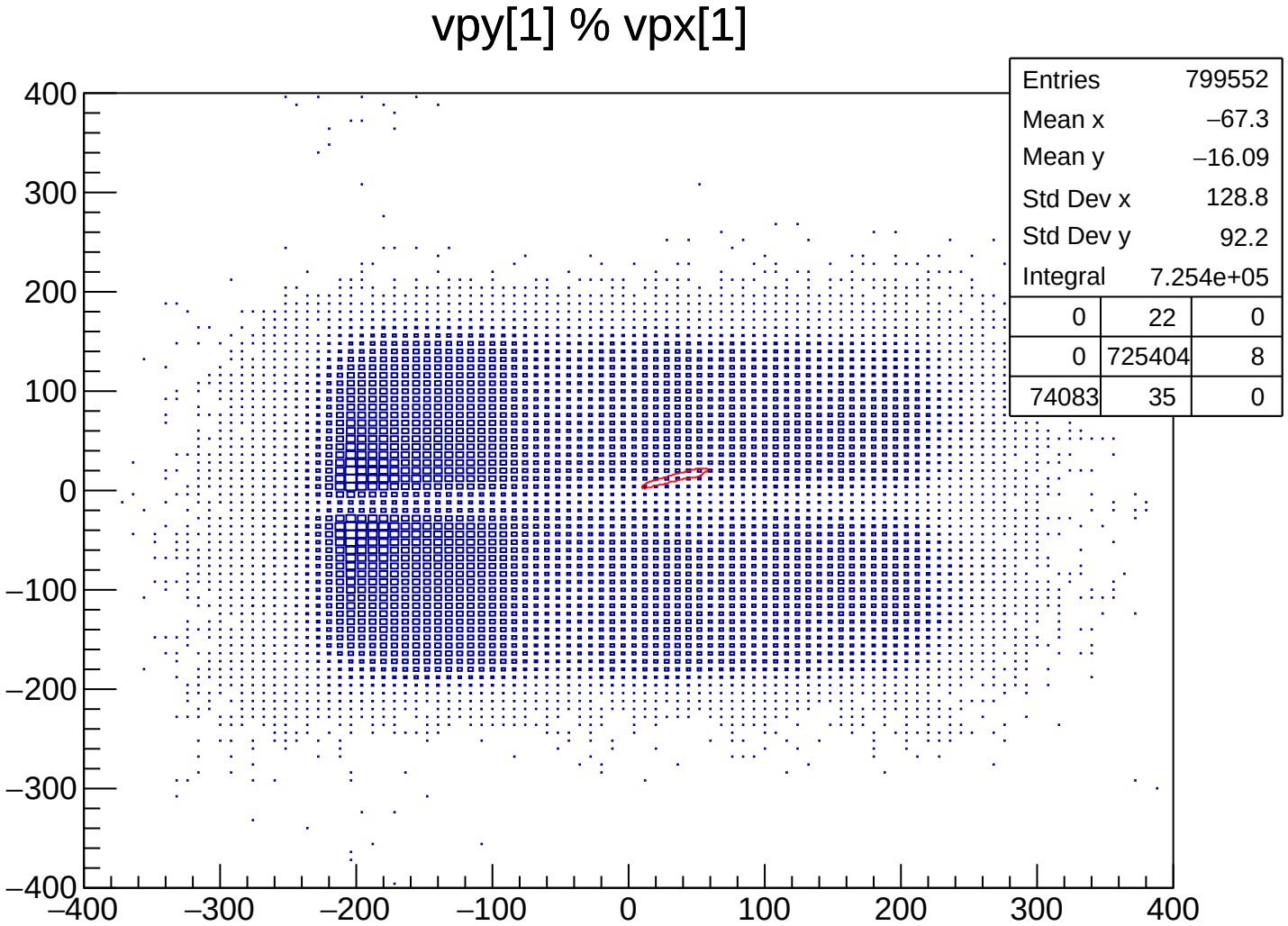
Sch Position by HitSegment % vpx[1]

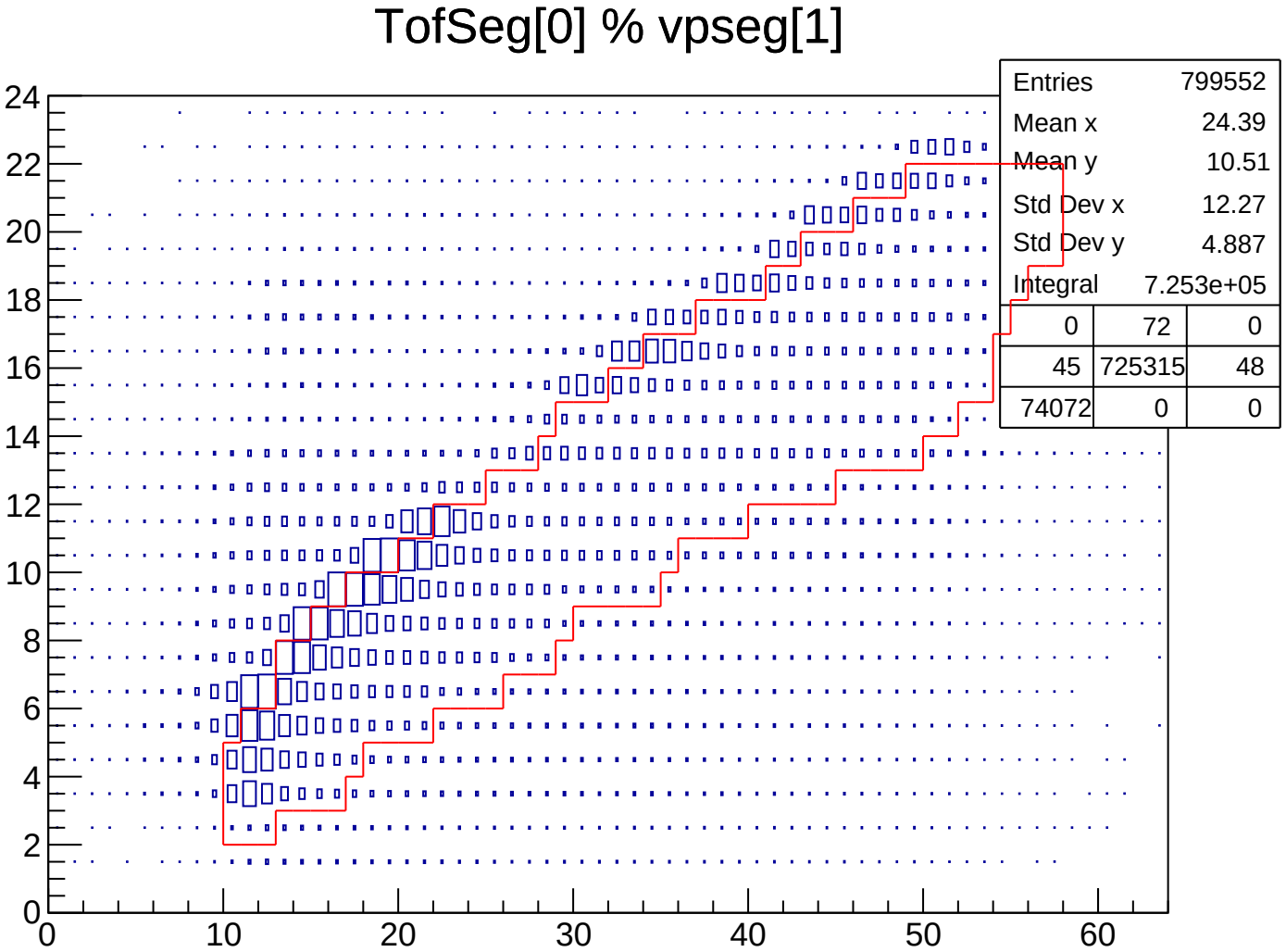


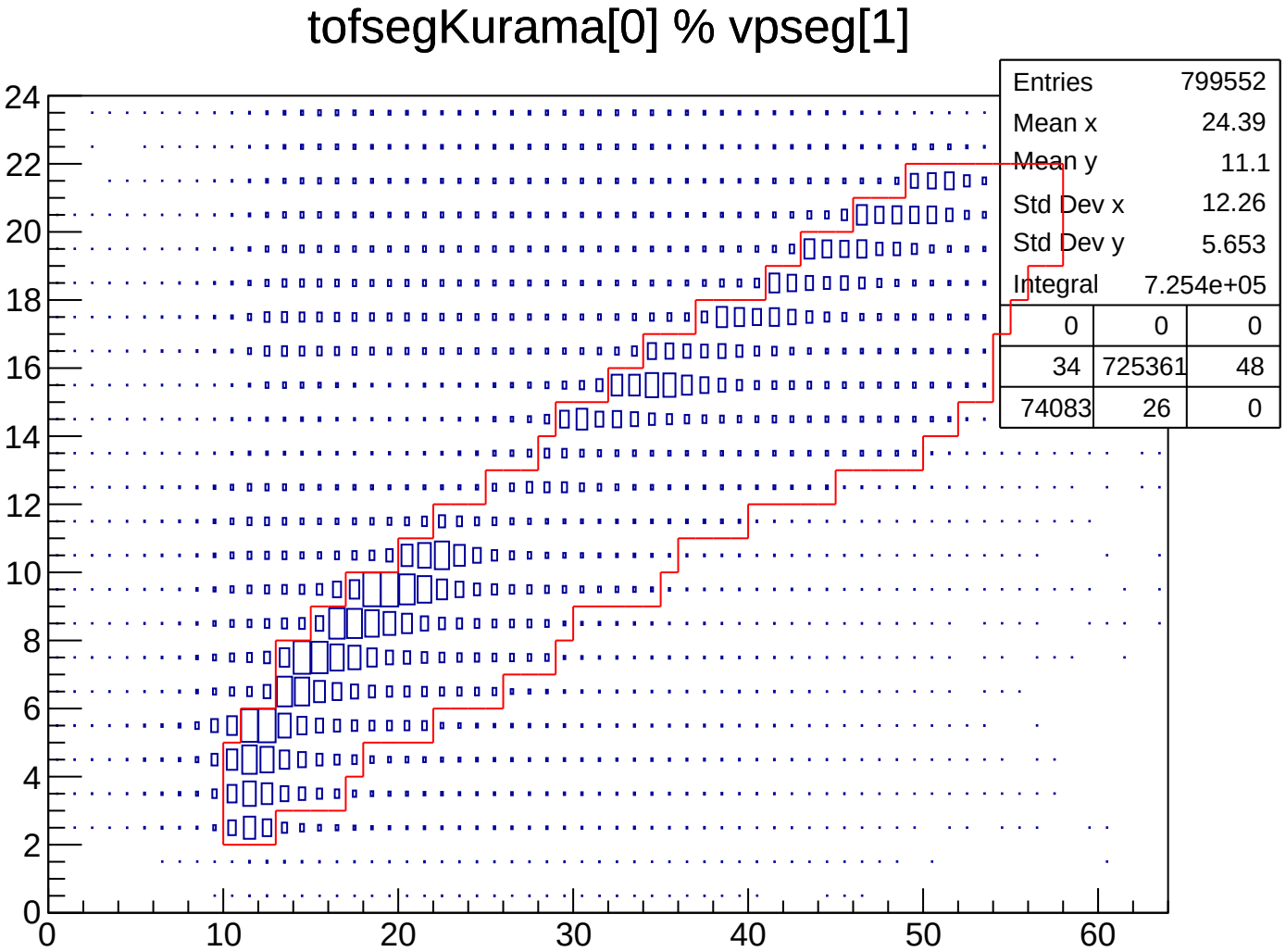
Sch Position by HitSegment % vpx[1] Cut1

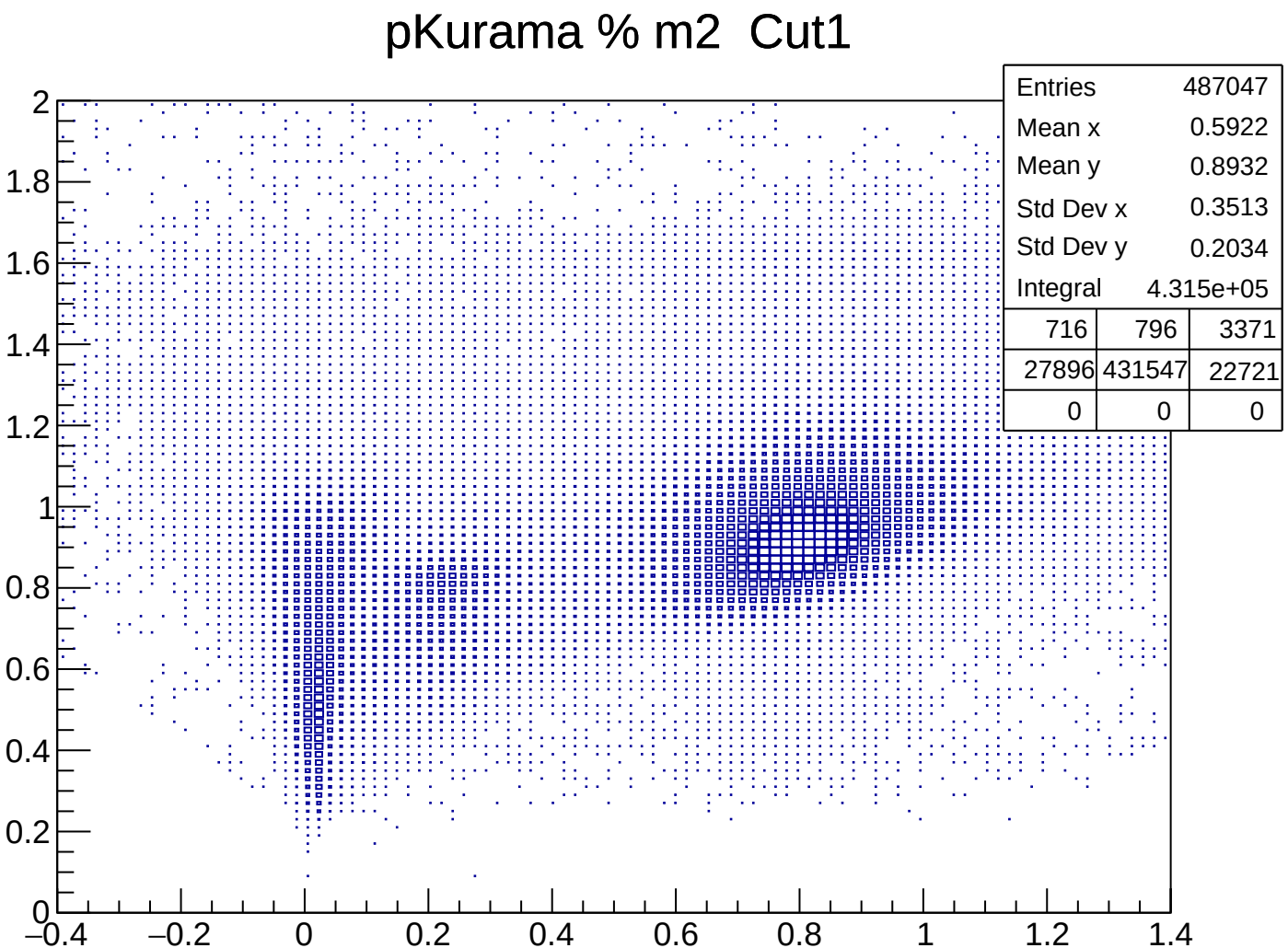


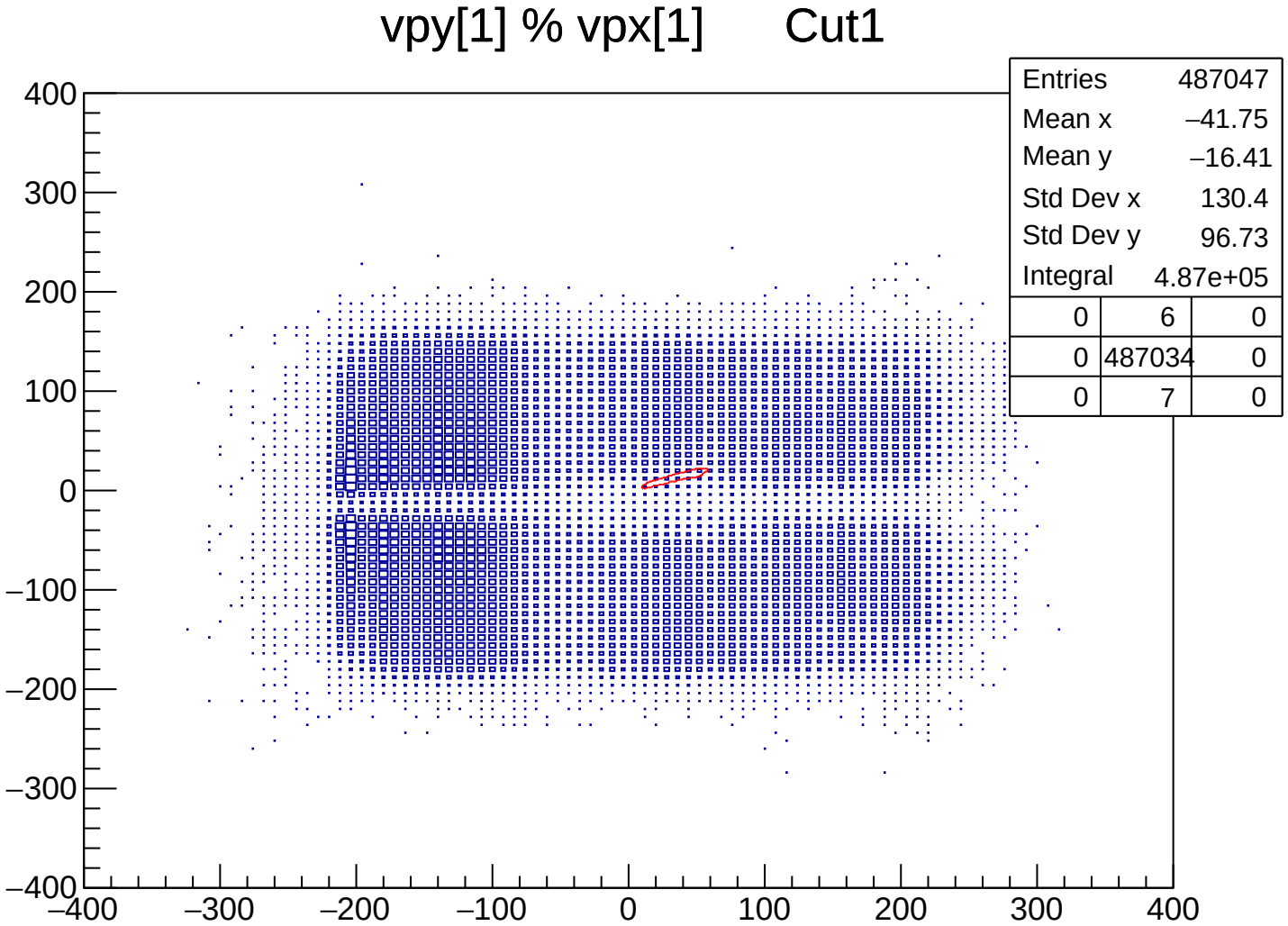

pKurama % m2
Entries 799552
Mean x 0.5002
Mean y 0.8618
Std Dev x 0.3762
Std Dev y 0.2465
Integral 6.08e+05
6654 6249 22211
39497 608032 42826
5633 60606 7844
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

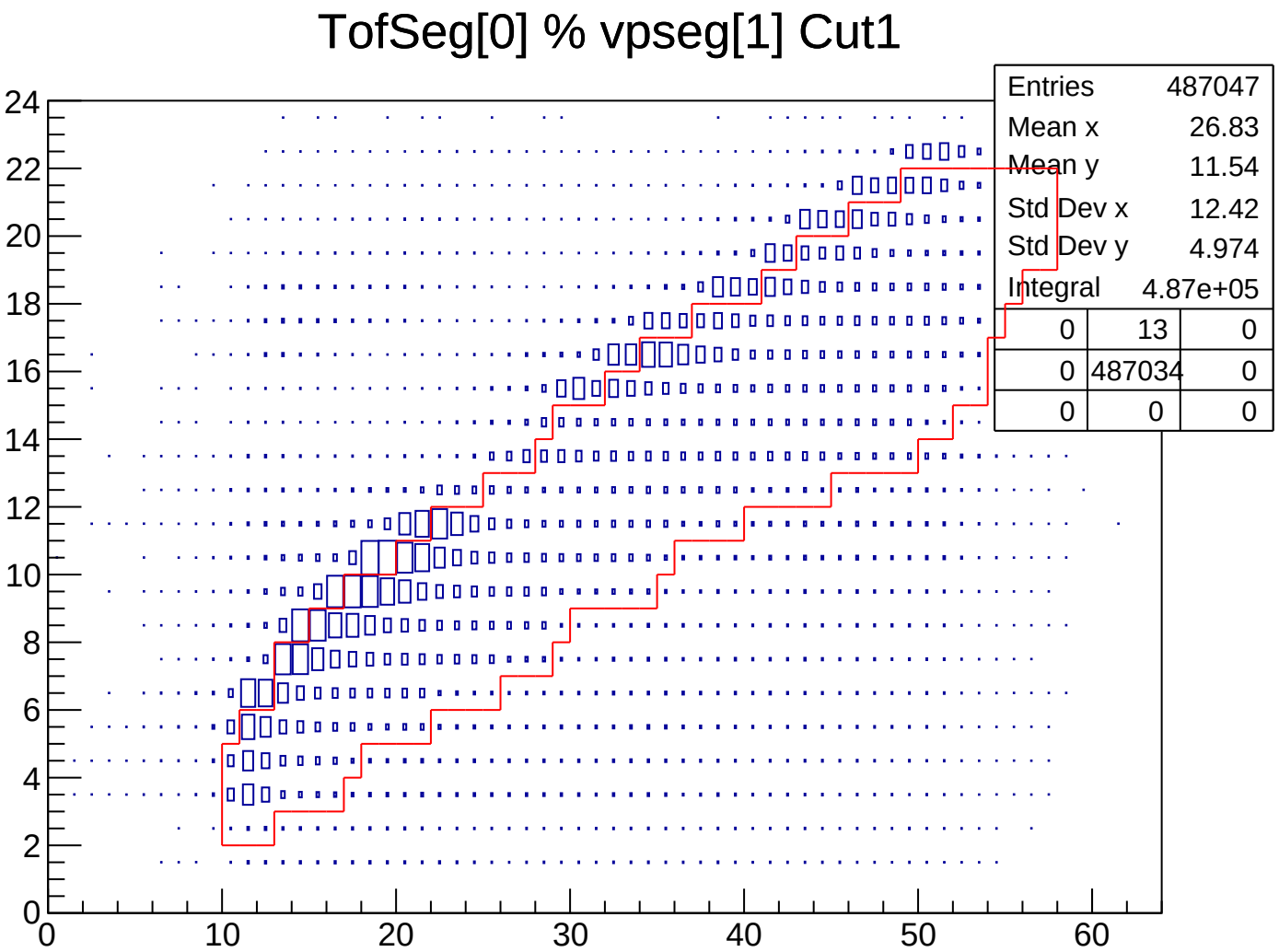

vpy[1] % vpx[1]
Entries 799552
Mean x –67.3
Mean y –16.09
Std Dev x 128.8
Std Dev y 92.2
Integral 7.254e+05
0 22 0
0 725404 8
74083 35 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

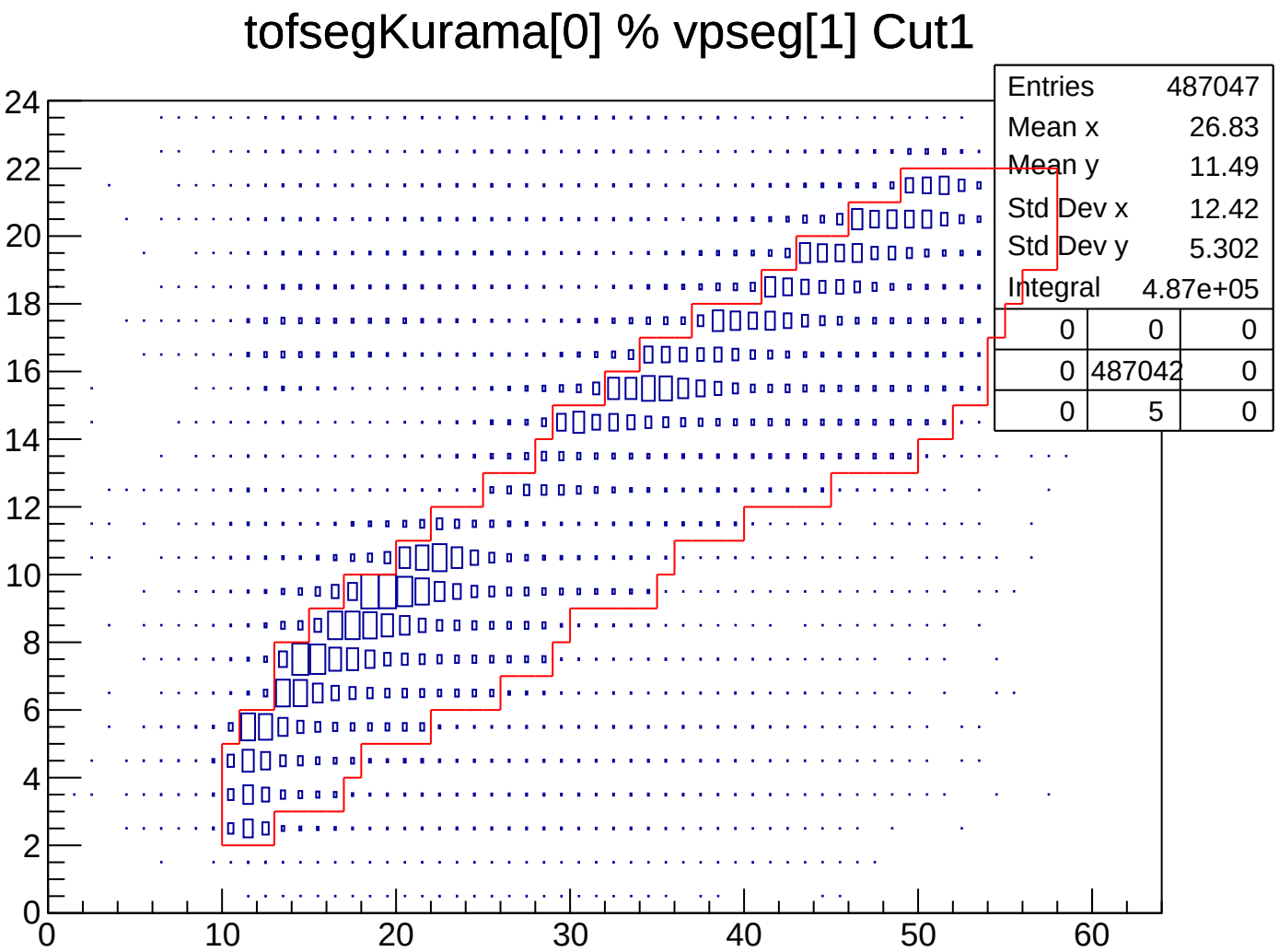

TofSeg[0] % vpseg[1]
Entries 799552
Mean x 24.39
Mean y 10.51
Std Dev x 12.27
Std Dev y 4.887
Integral 7.253e+05
0 72 0
45 725315 48
74072 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1]
Entries 799552
Mean x 24.39
Mean y 11.1
Std Dev x 12.26
Std Dev y 5.653
Integral 7.254e+05
0 0 0
34 725361 48
74083 26 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

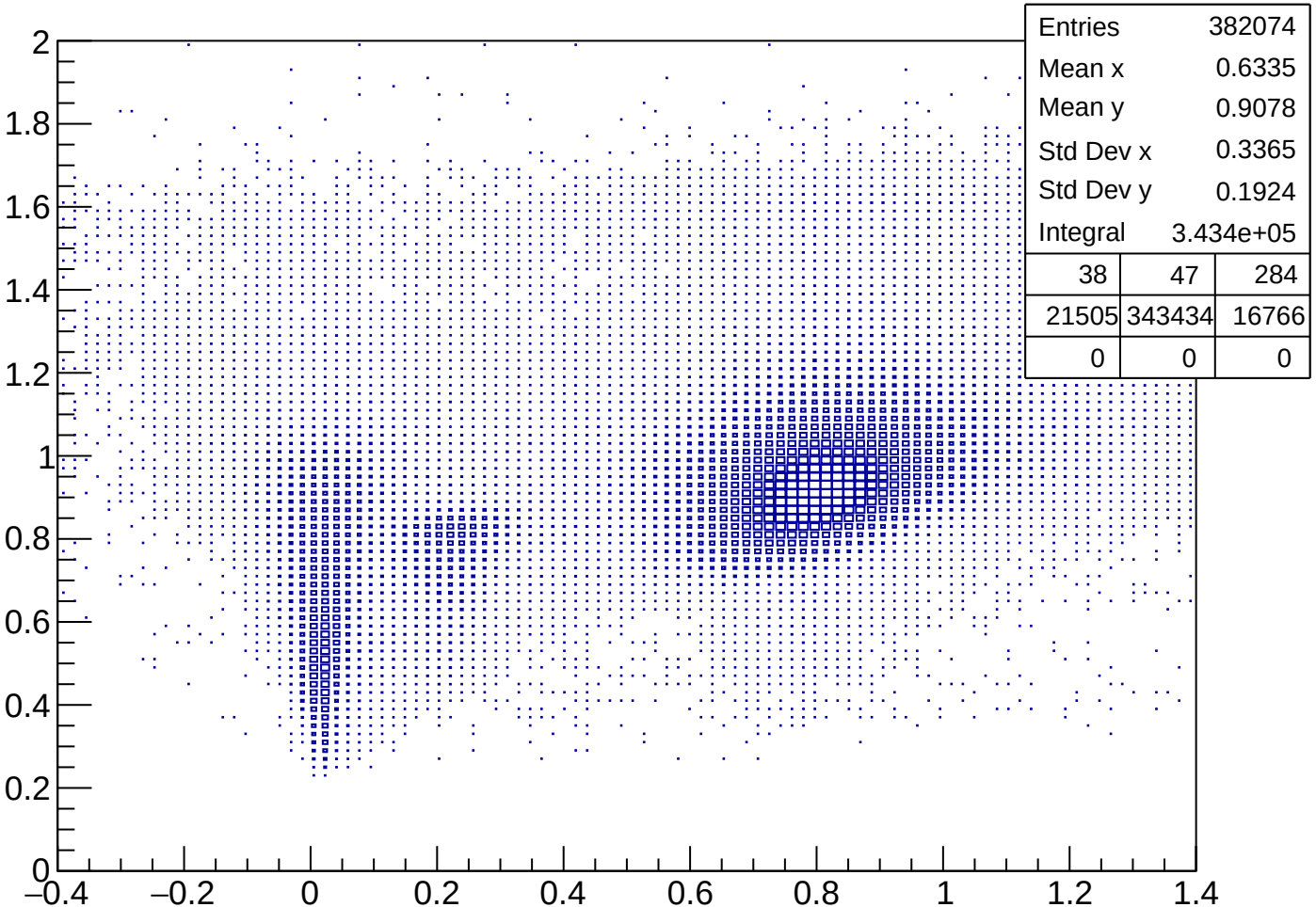

pKurama % m2 Cut1
Entries 487047
Mean x 0.5922
Mean y 0.8932
Std Dev x 0.3513
Std Dev y 0.2034
Integral 4.315e+05
716 796 3371
27896 431547 22721
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

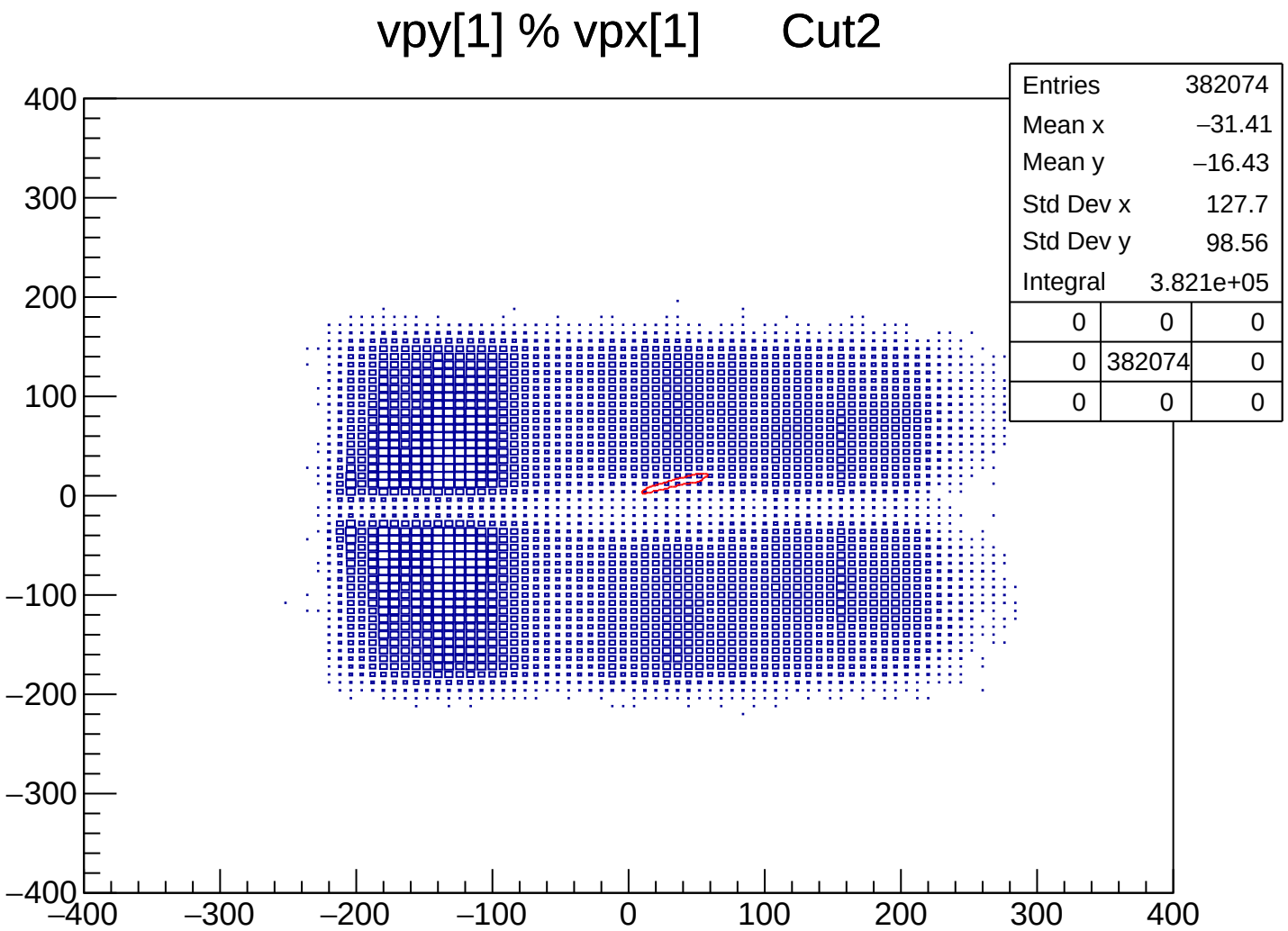

vpy[1] % vpx[1] Cut1
Entries 487047
Mean x –41.75
Mean y –16.41
Std Dev x 130.4
Std Dev y 96.73
Integral 4.87e+05
0 6 0
0 487034 0
0 7 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

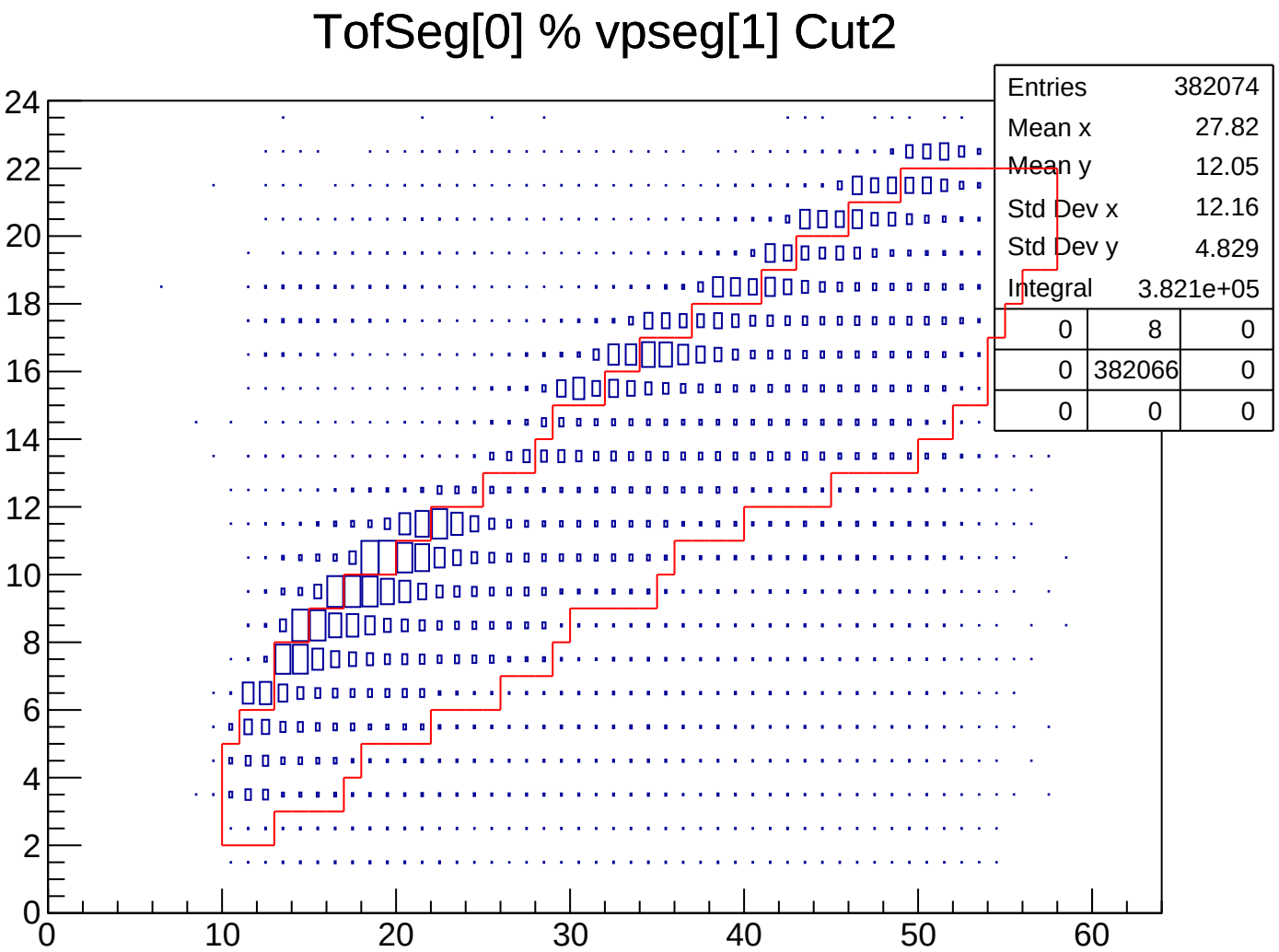

TofSeg[0] % vpseg[1] Cut1
Entries 487047
Mean x 26.83
Mean y 11.54
Std Dev x 12.42
Std Dev y 4.974
Integral 4.87e+05
0 13 0
0 487034 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

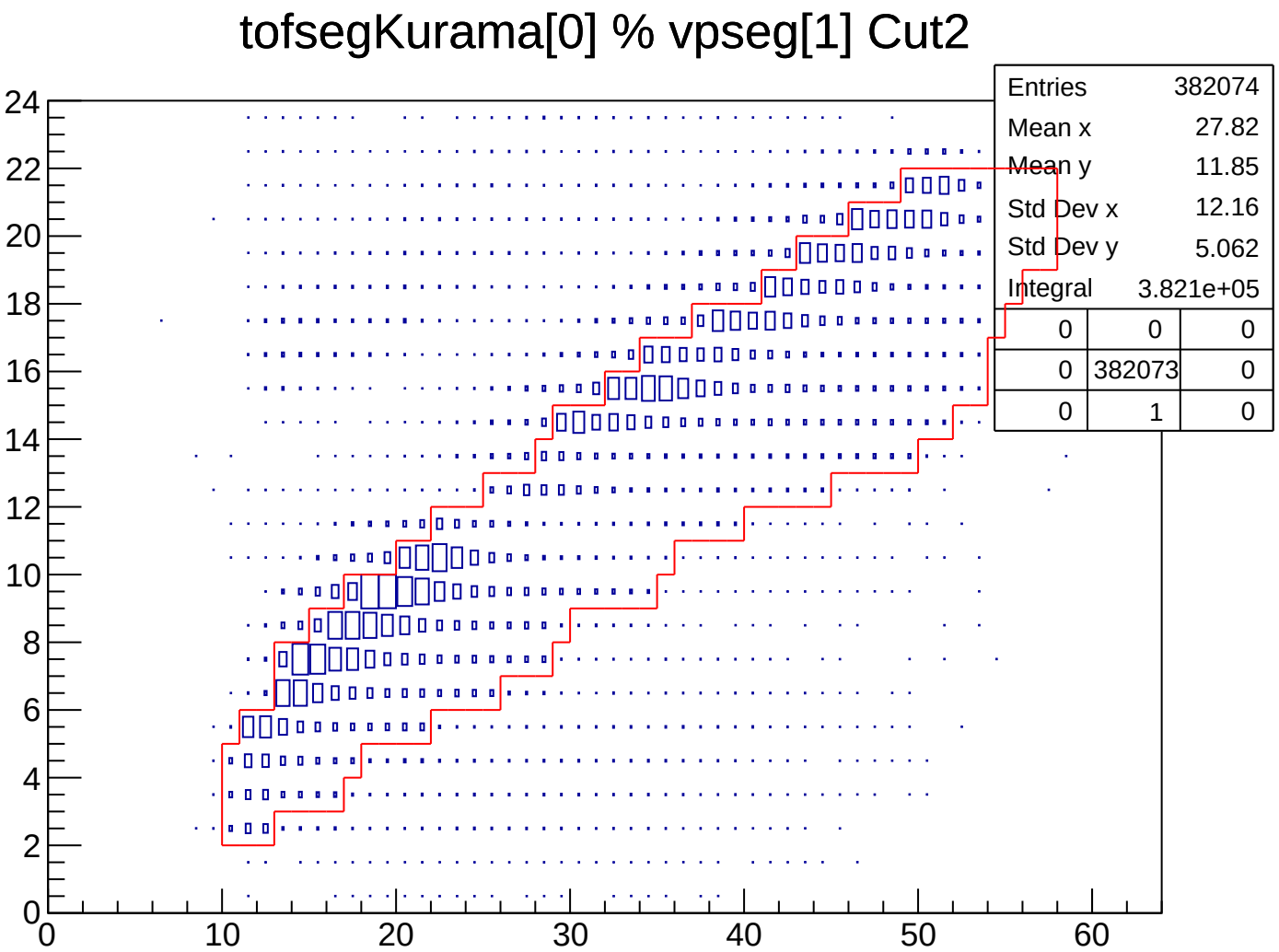

tofsegKurama[0] % vpseg[1] Cut1
Entries 487047
Mean x 26.83
Mean y 11.49
Std Dev x 12.42
Std Dev y 5.302
Integral 4.87e+05
0 0 0
0 487042 0
0 5 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

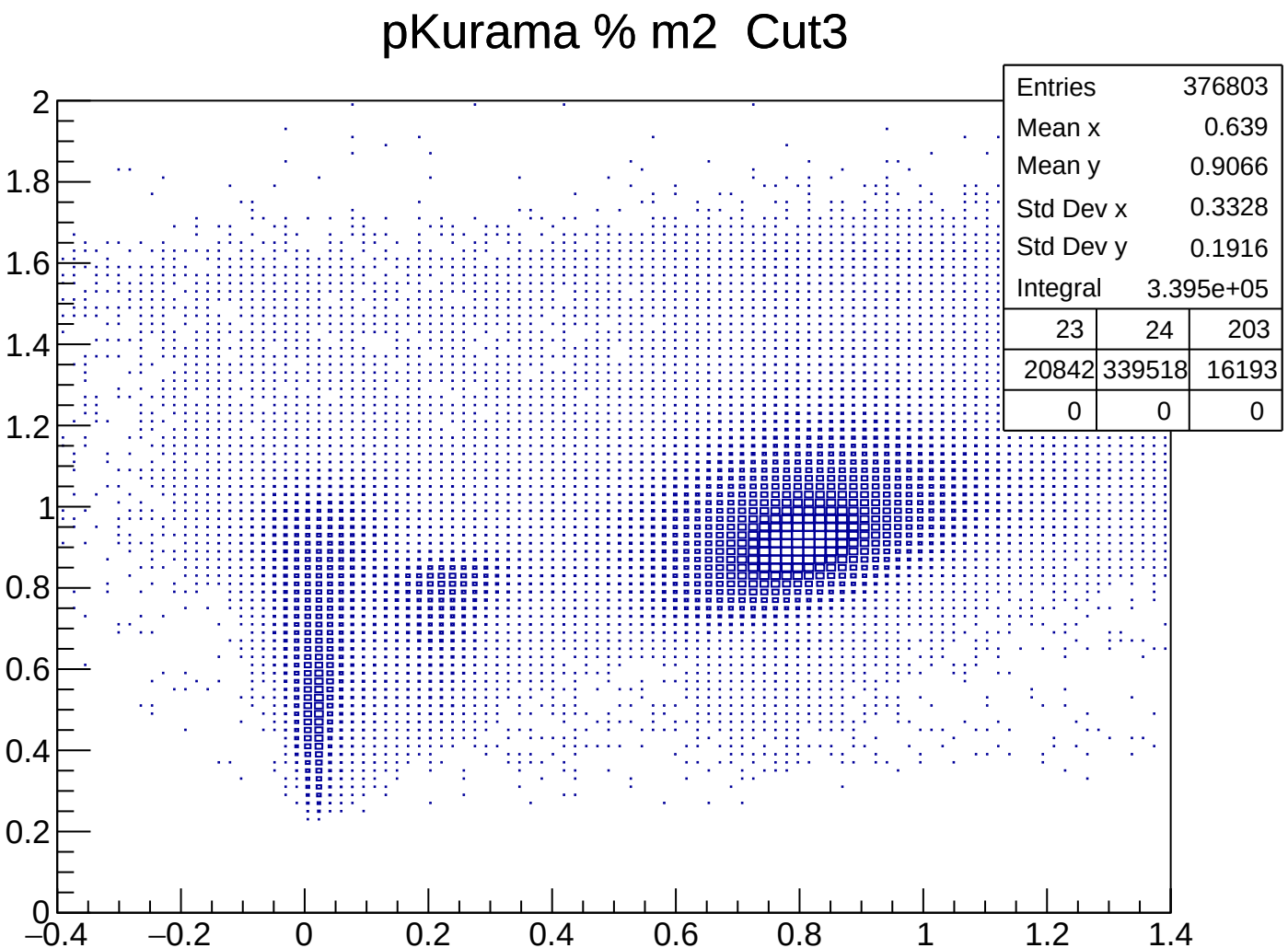
pKurama % m2 Cut2

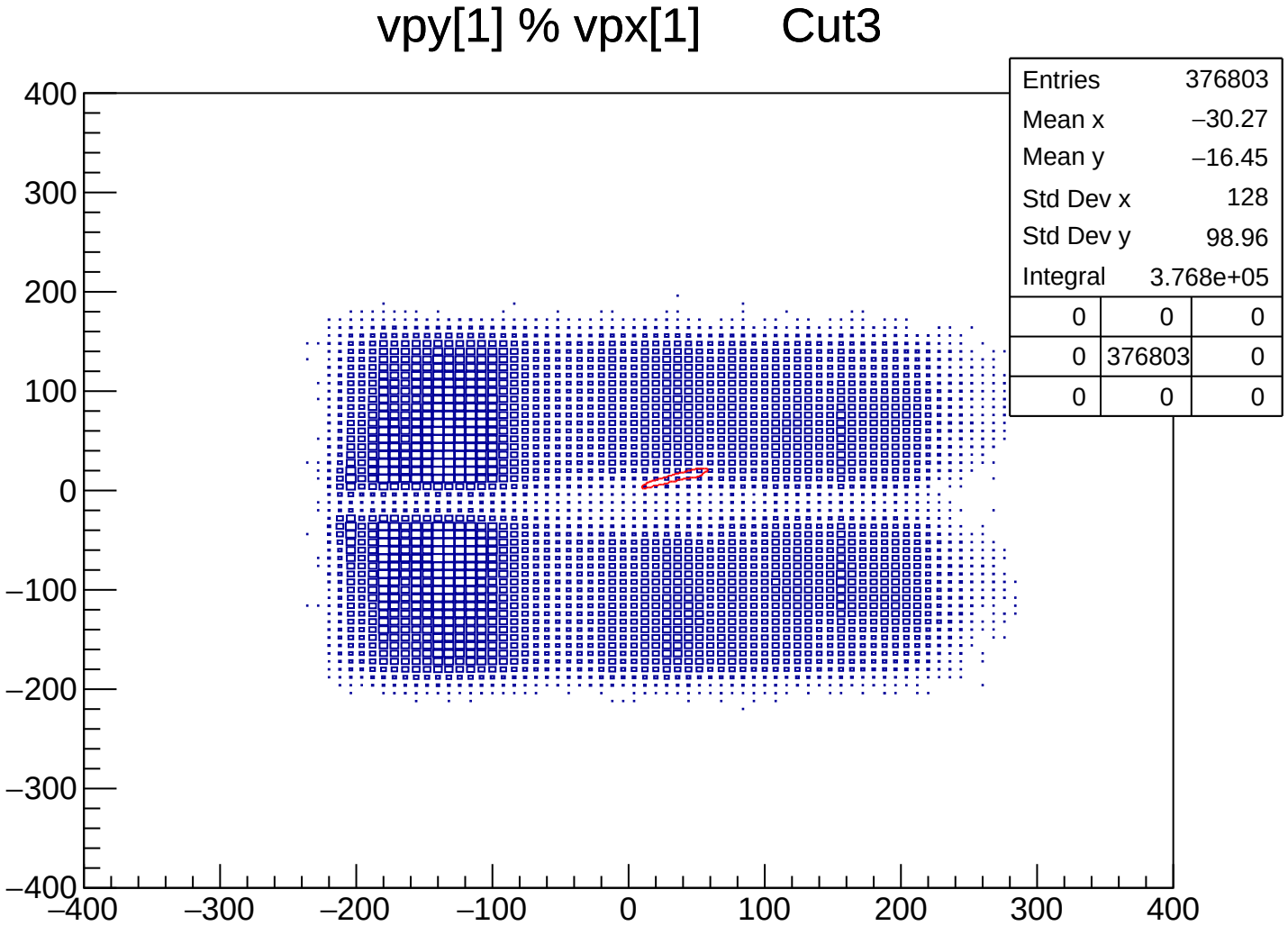


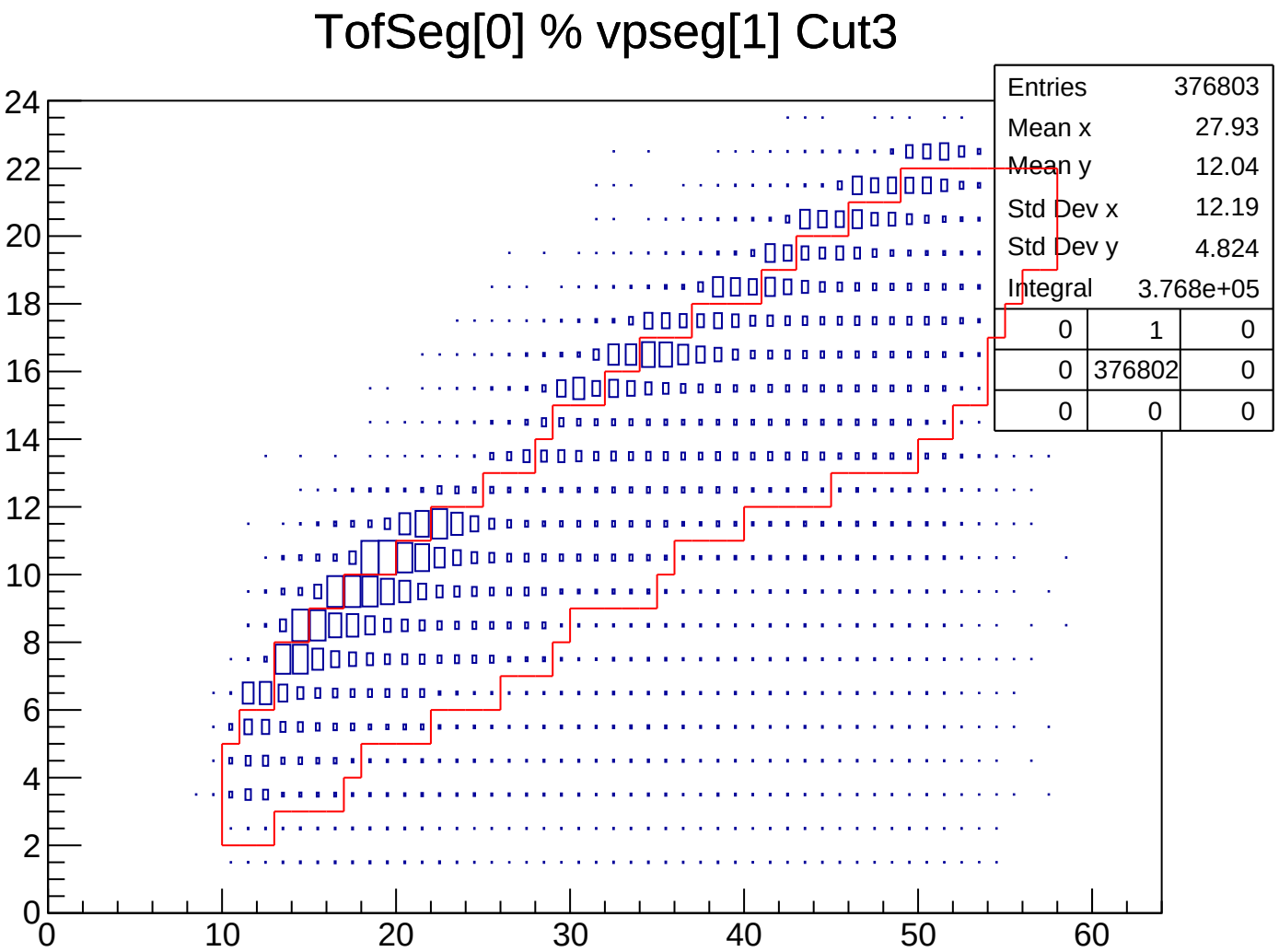

vpy[1] % vpx[1] Cut2
Entries 382074
Mean x –31.41
Mean y –16.43
Std Dev x 127.7
Std Dev y 98.56
Integral 3.821e+05
0 0 0
0 382074 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

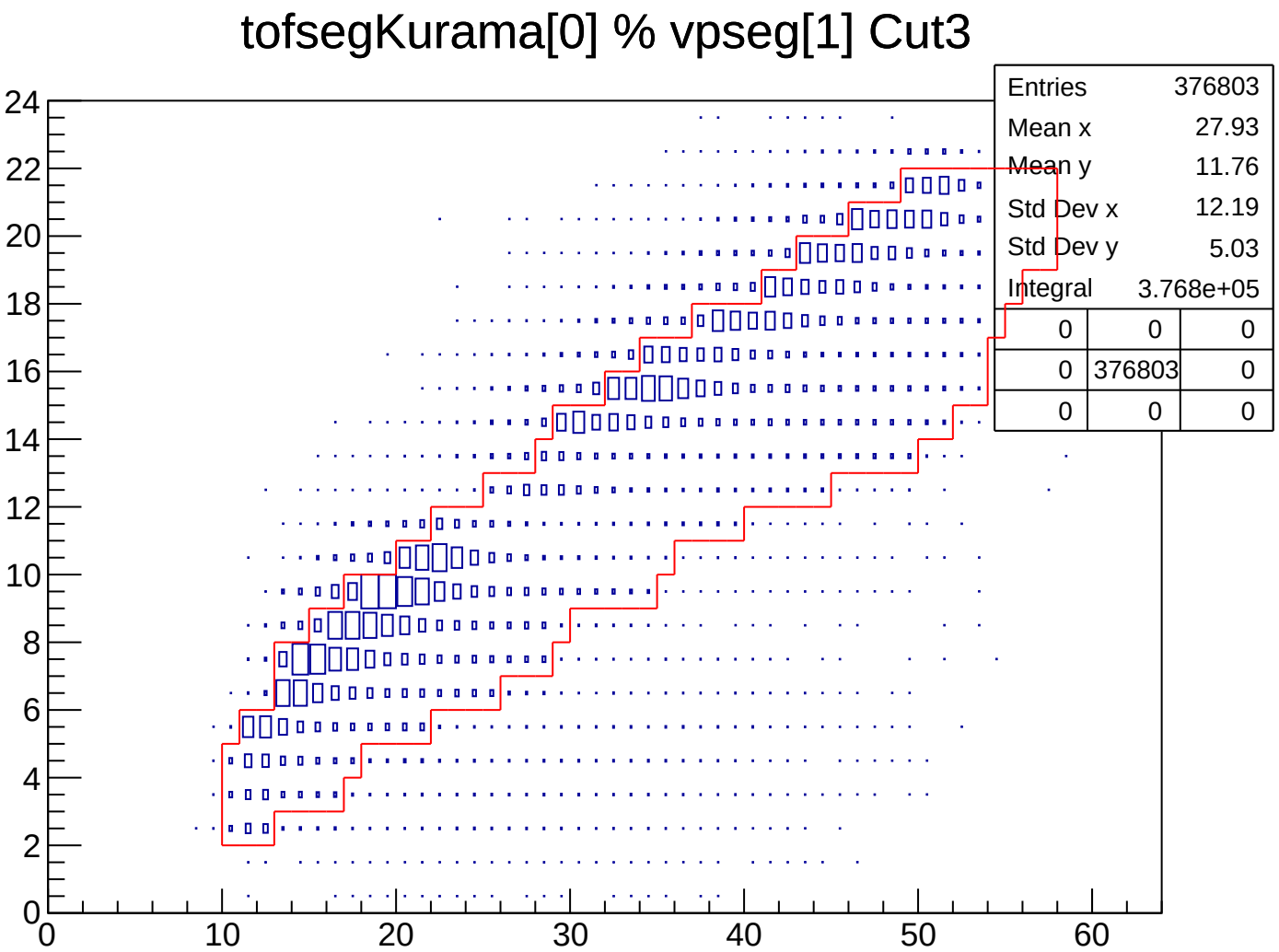

TofSeg[0] % vpseg[1] Cut2
Entries 382074
Mean x 27.82
Mean y 12.05
Std Dev x 12.16
Std Dev y 4.829
Integral 3.821e+05
0 8 0
0 382066 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

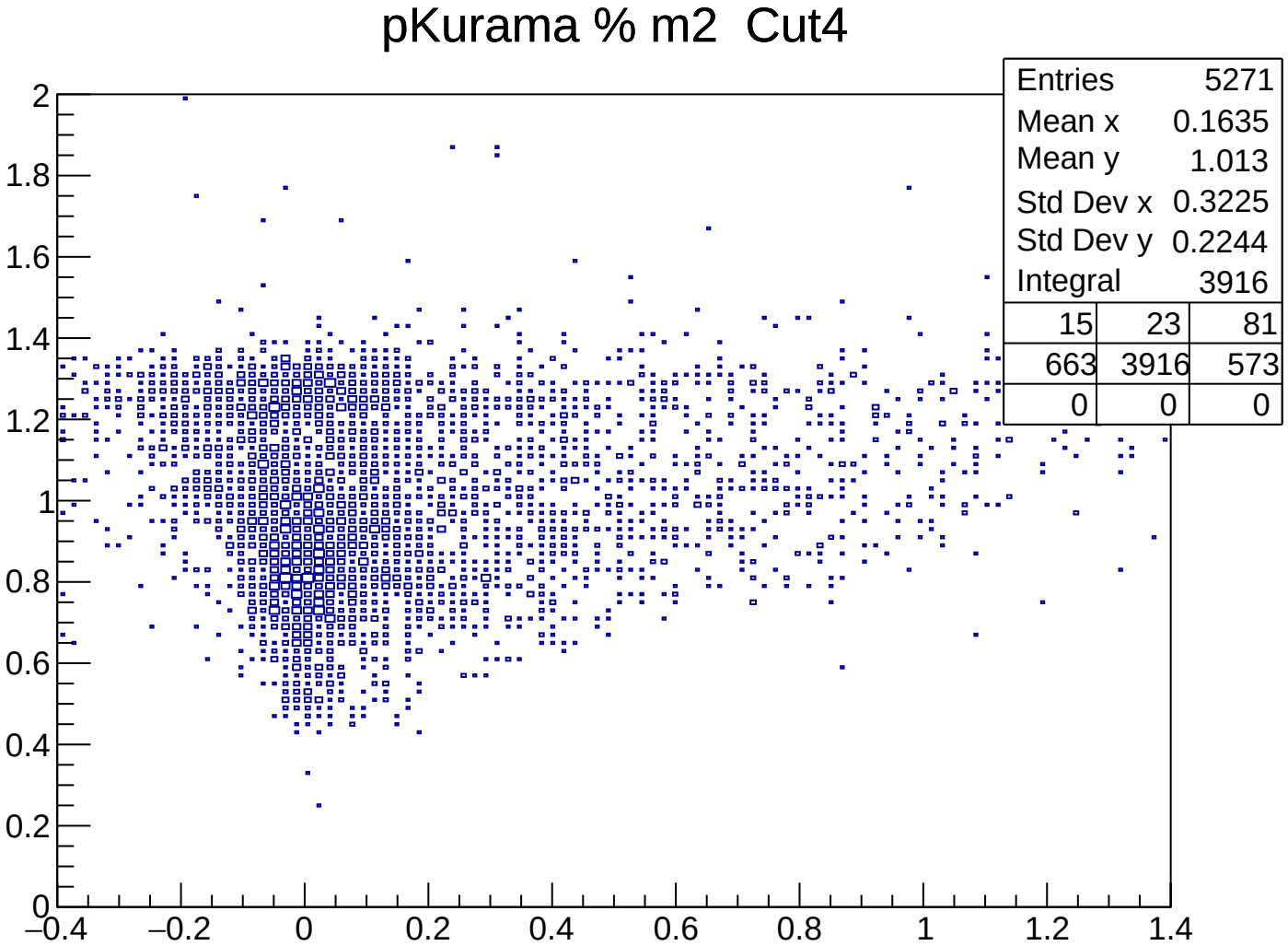

tofsegKurama[0] % vpseg[1] Cut2
Entries 382074
Mean x 27.82
Mean y 11.85
Std Dev x 12.16
Std Dev y 5.062
Integral 3.821e+05
0 0 0
0 382073 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

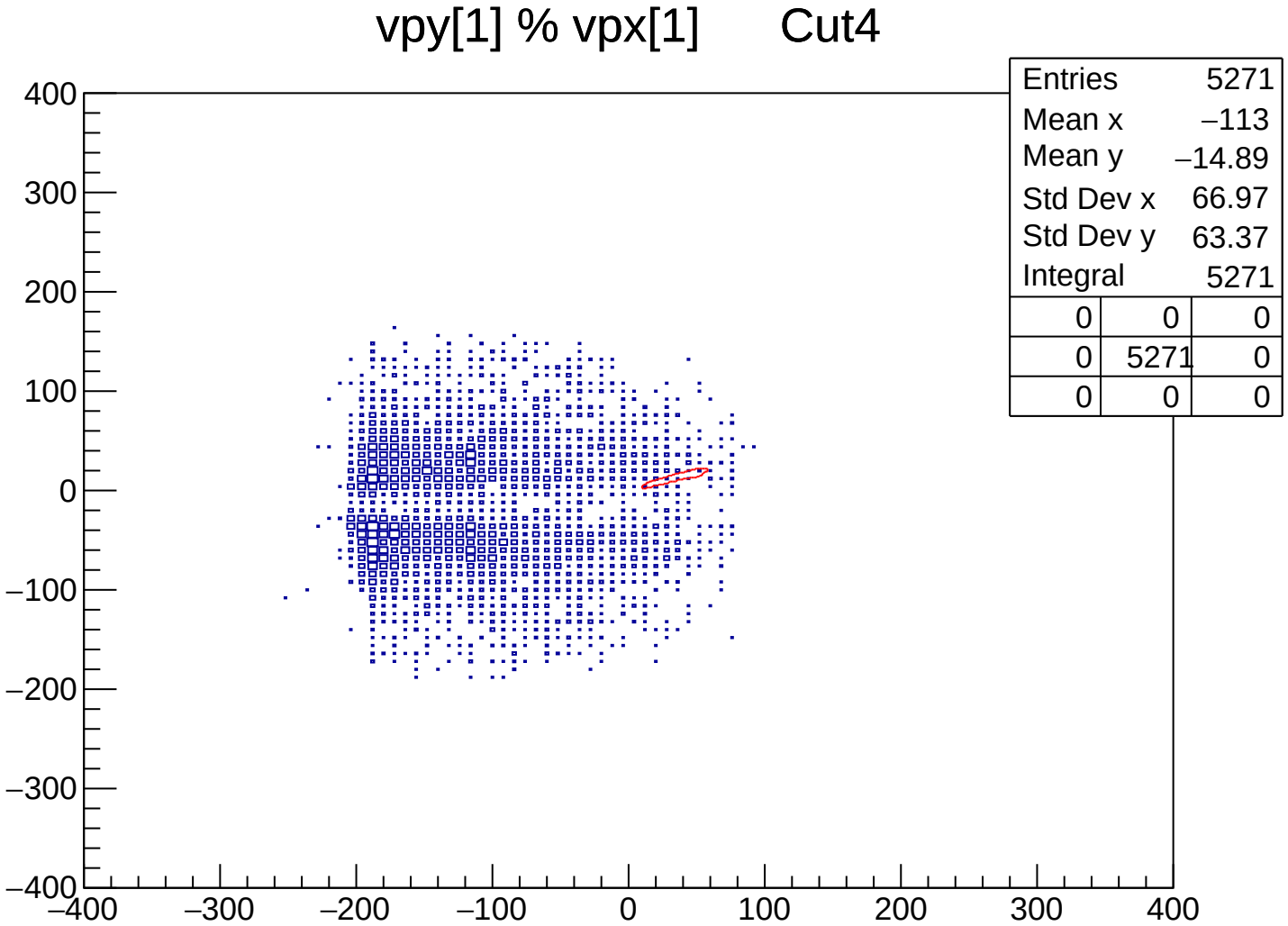

pKurama % m2 Cut3
Entries 376803
Mean x 0.639
Mean y 0.9066
Std Dev x 0.3328
Std Dev y 0.1916
Integral 3.395e+05
23 24 203
20842 339518 16193
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

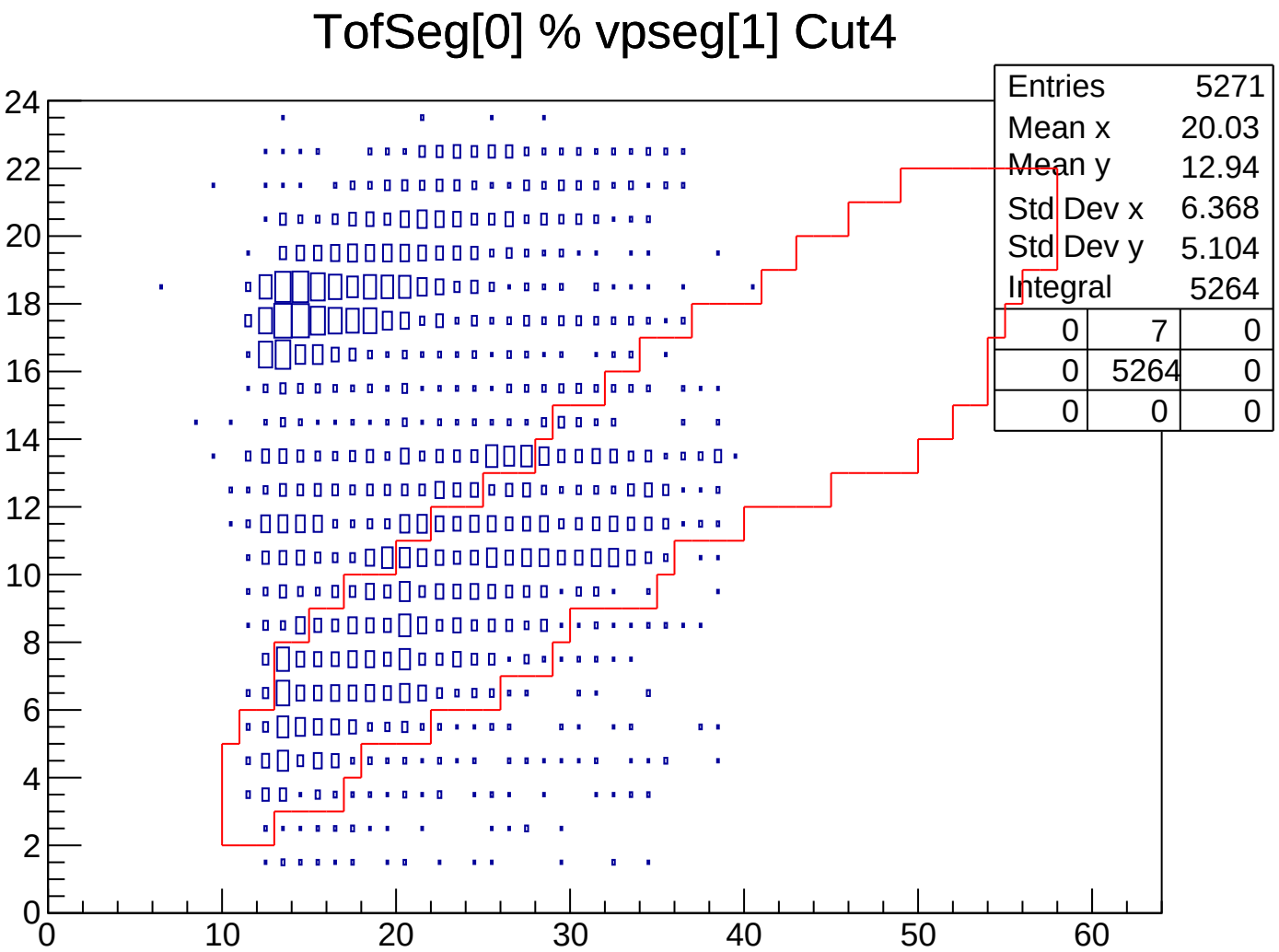

vpy[1] % vpx[1] Cut3
Entries 376803
Mean x –30.27
Mean y –16.45
Std Dev x 128
Std Dev y 98.96
Integral 3.768e+05
0 0 0
0 376803 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

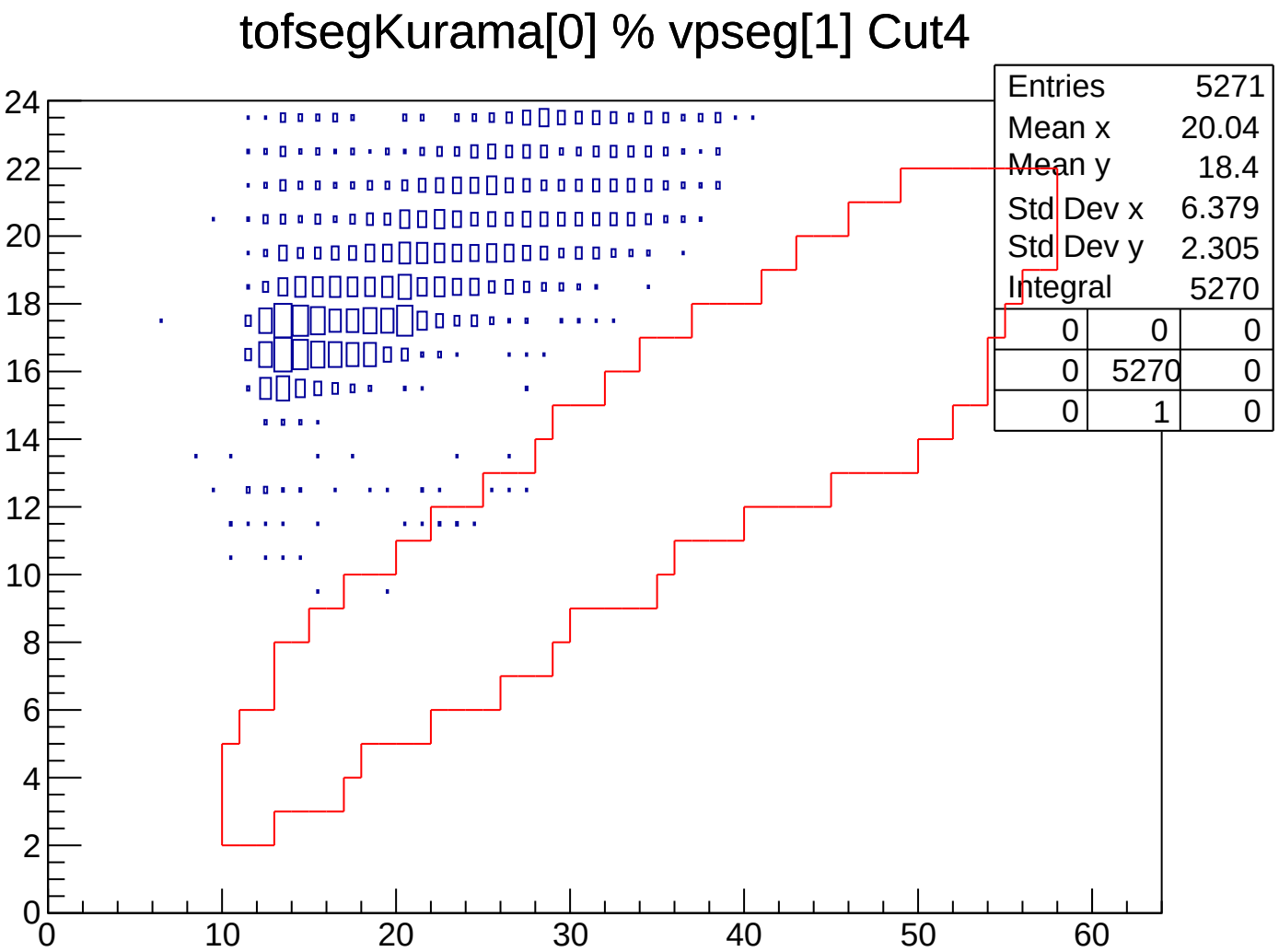

TofSeg[0] % vpseg[1] Cut3
Entries 376803
Mean x 27.93
Mean y 12.04
Std Dev x 12.19
Std Dev y 4.824
Integral 3.768e+05
0 1 0
0 376802 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Cut3
Entries 376803
Mean x 27.93
Mean y 11.76
Std Dev x 12.19
Std Dev y 5.03
Integral 3.768e+05
0 0 0
0 376803 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

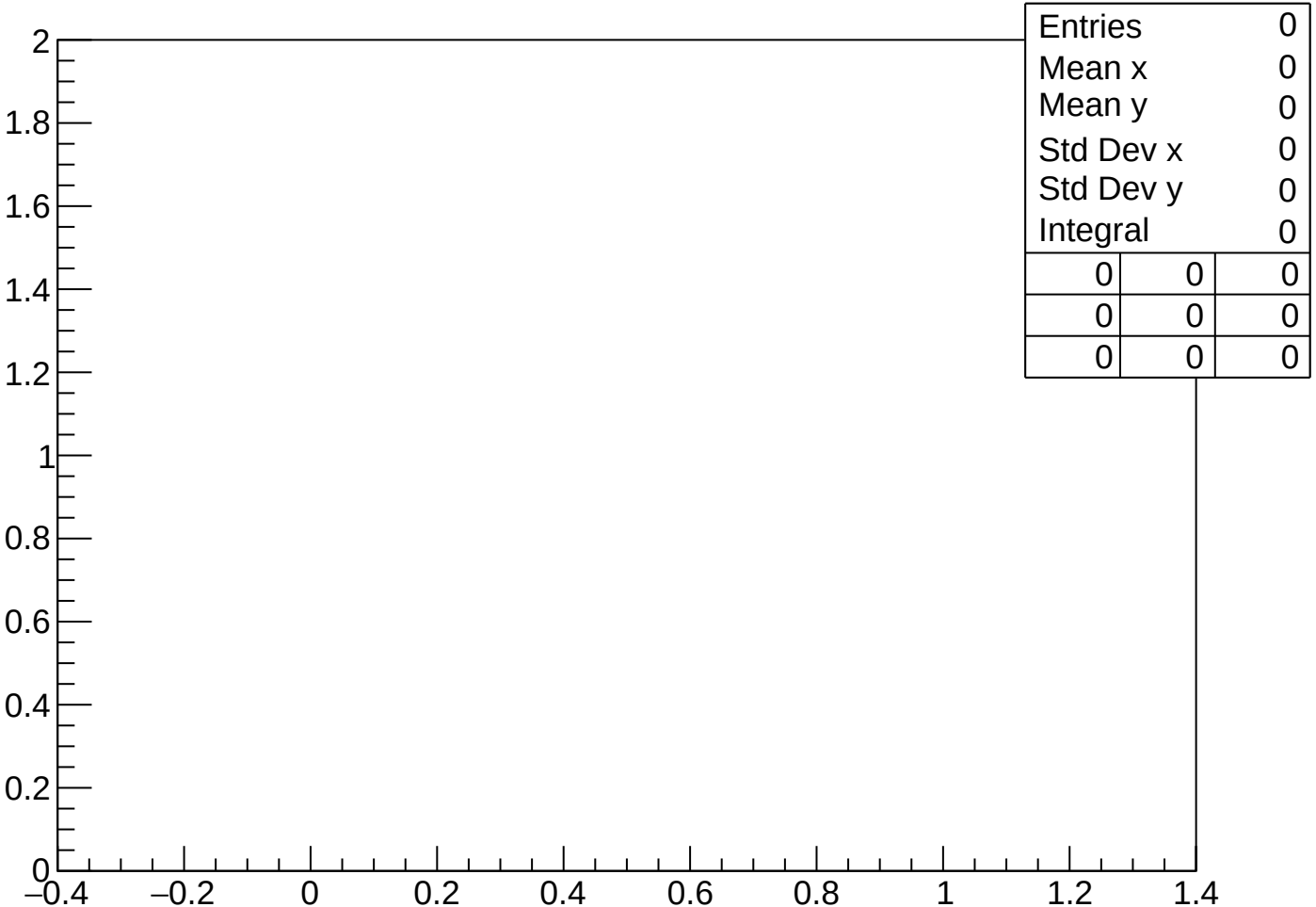

pKurama % m2 Cut4
Entries 5271
Mean x 0.1635
Mean y 1.013
Std Dev x 0.3225
Std Dev y 0.2244
Integral 3916
15 23 81
663 3916 573
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

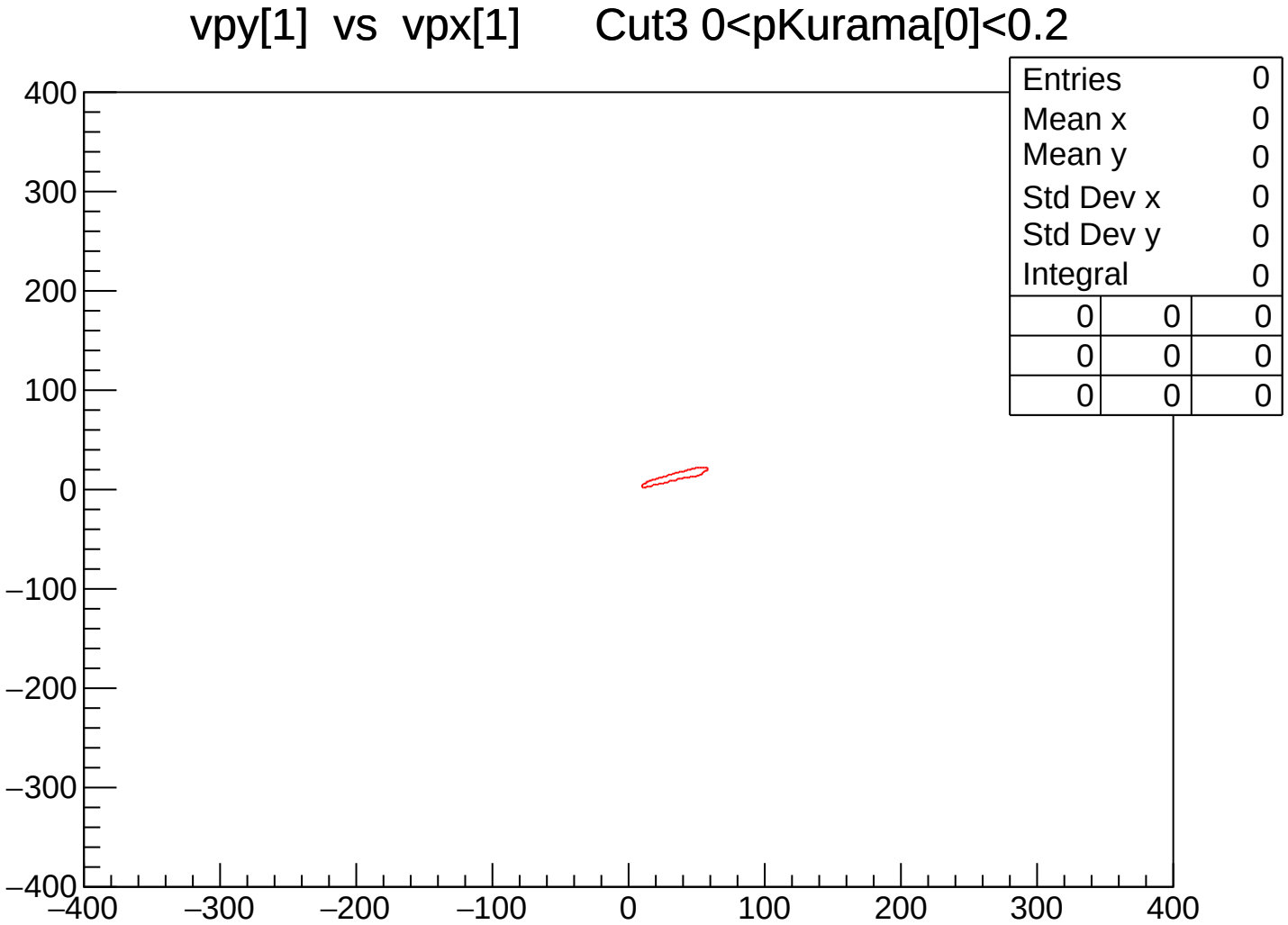

vpy[1] % vpx[1] Cut4
Entries 5271
Mean x −113
Mean y −14.89
Std Dev x 66.97
Std Dev y 63.37
Integral 5271
0 0 0
0 5271 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

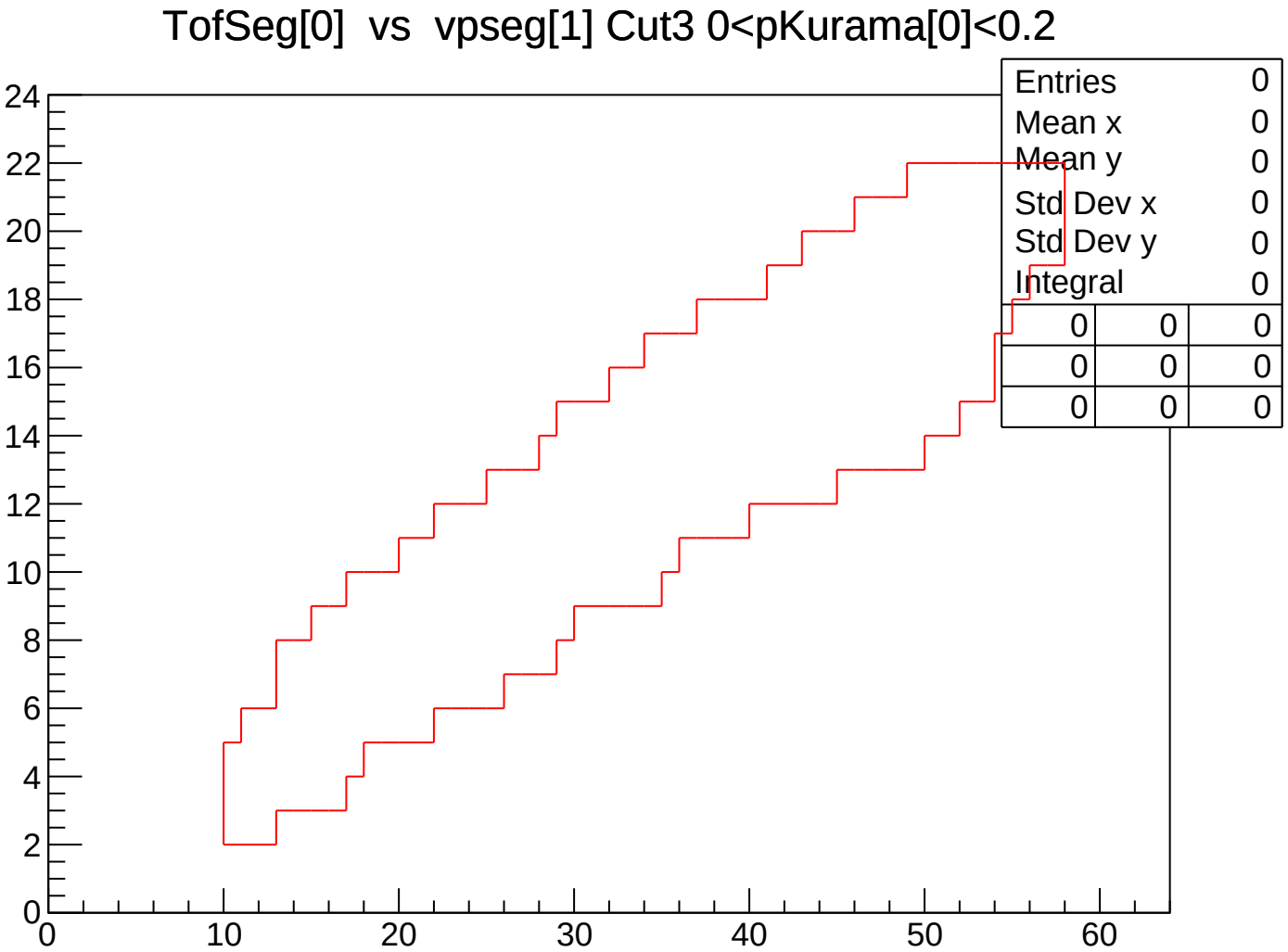

TofSeg[0] % vpseg[1] Cut4
Entries 5271
Mean x 20.03
Mean y 12.94
Std Dev x 6.368
Std Dev y 5.104
Integral 5264
0 7 0
0 5264 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

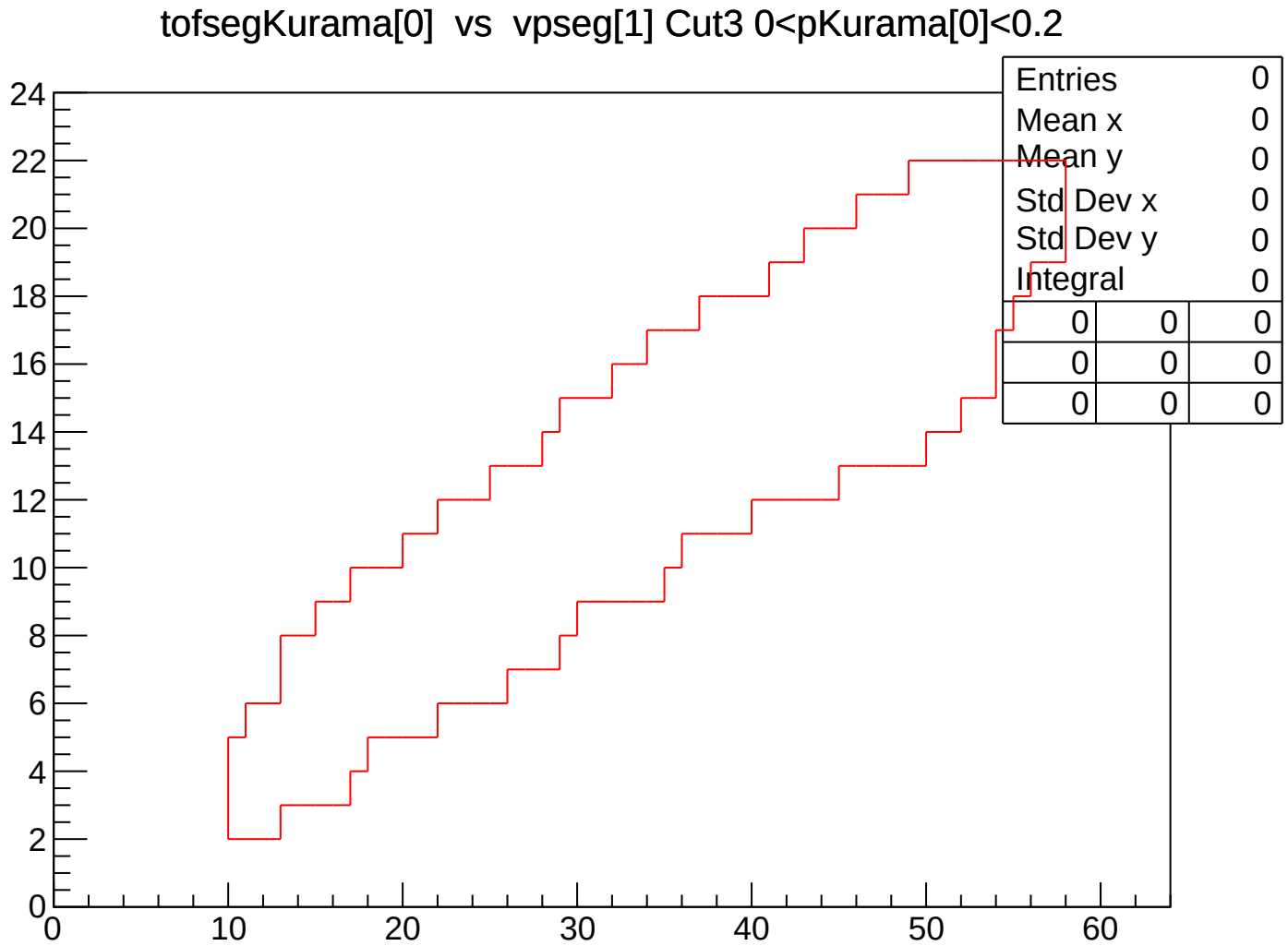

tofsegKurama[0] % vpseg[1] Cut4
Entries 5271
Mean x 20.04
Mean y 18.4
Std Dev x 6.379
Std Dev y 2.305
Integral 5270
0 0 0
0 5270 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

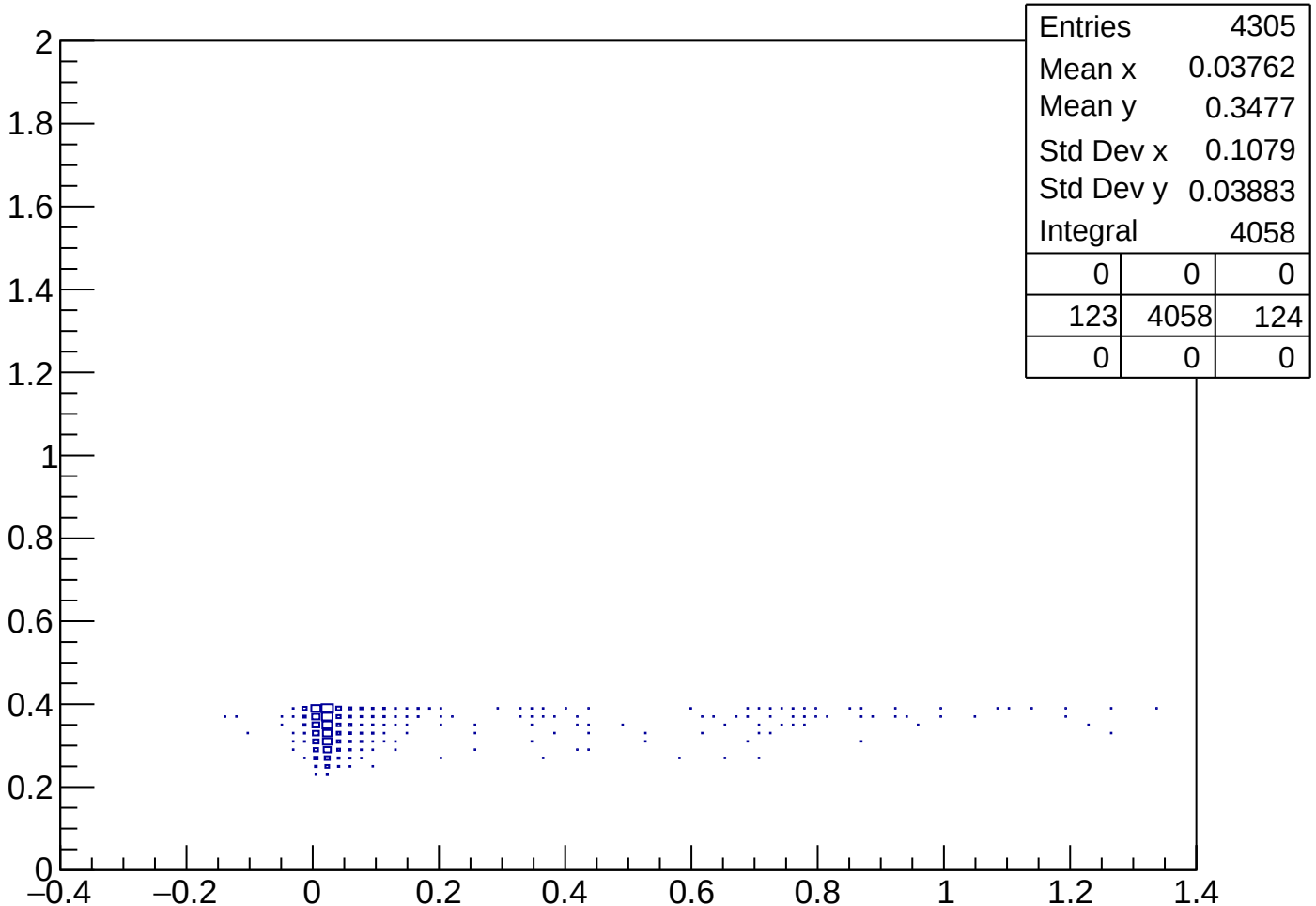


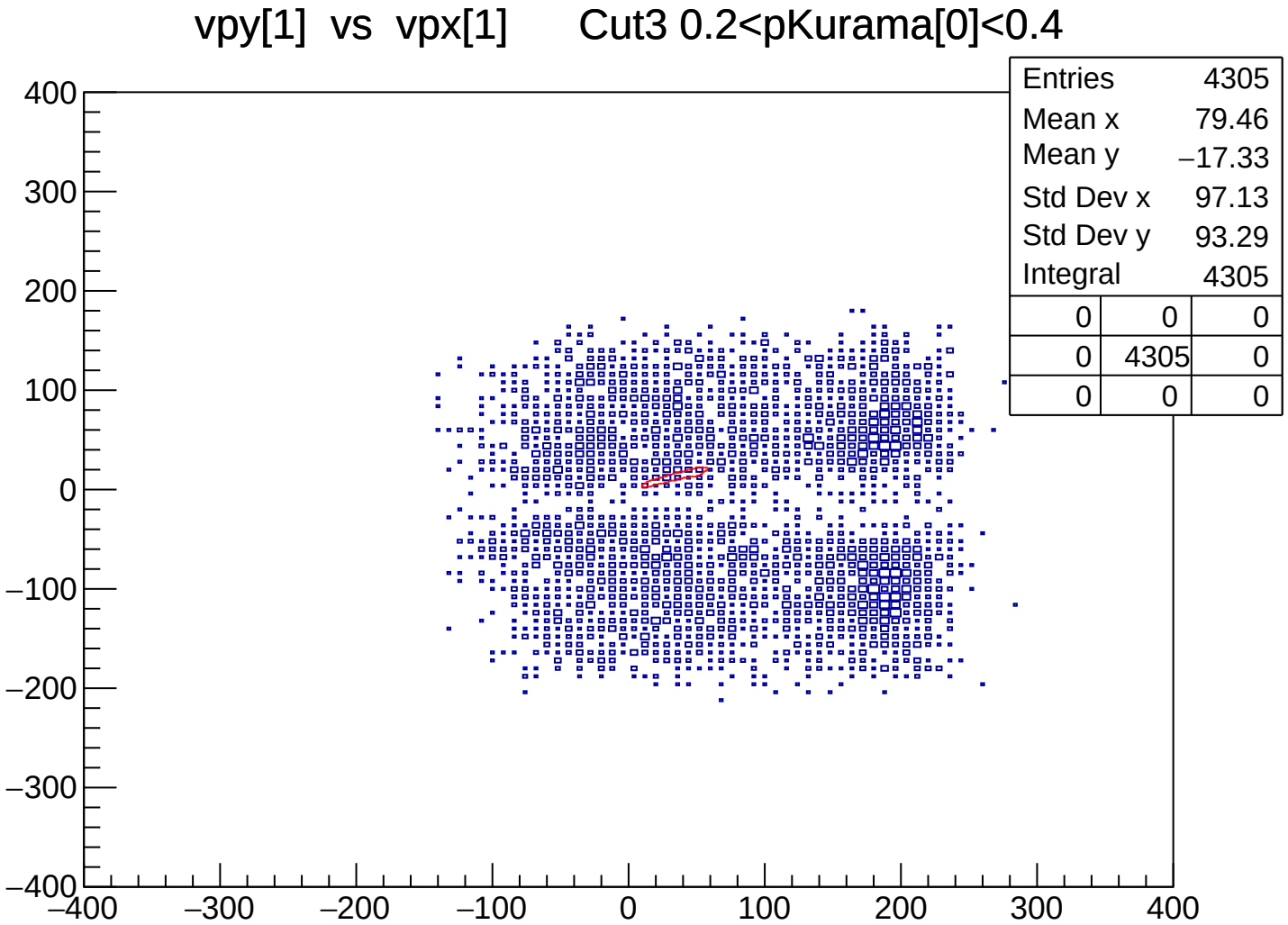

vpy[1] vs vpx[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

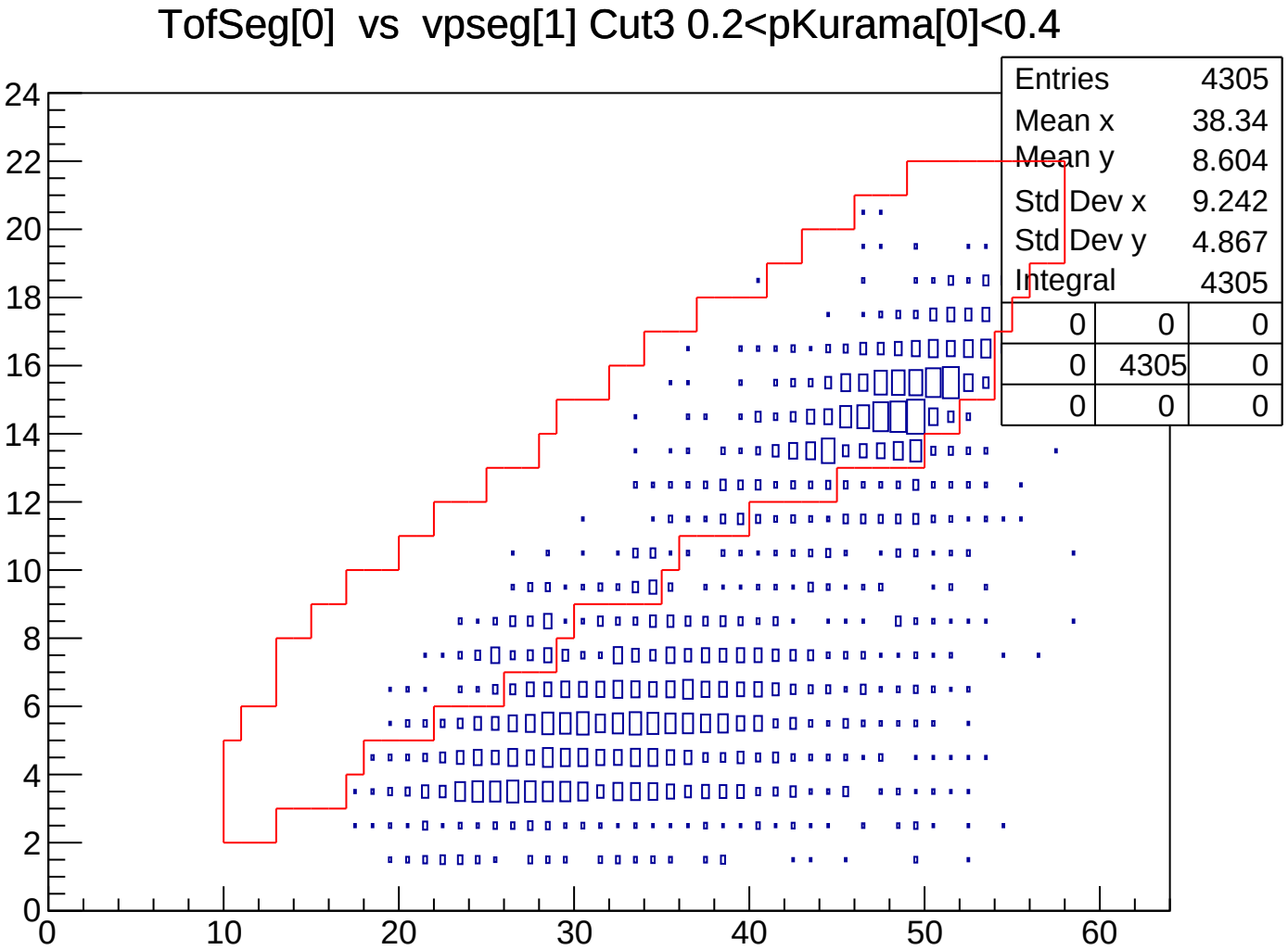

TofSeg[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

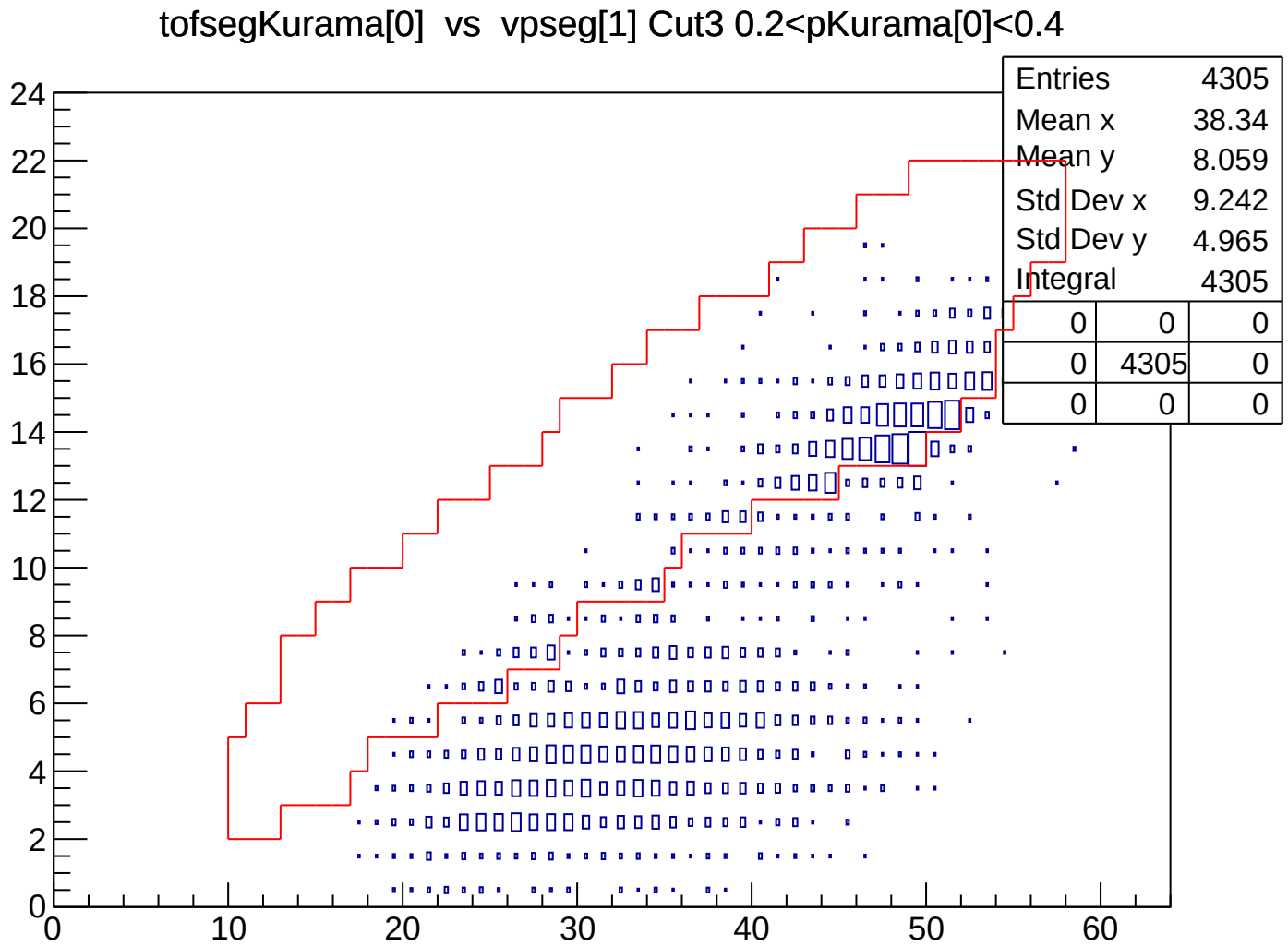

tofsegKurama[0] vs vpseg[1] Cut3 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

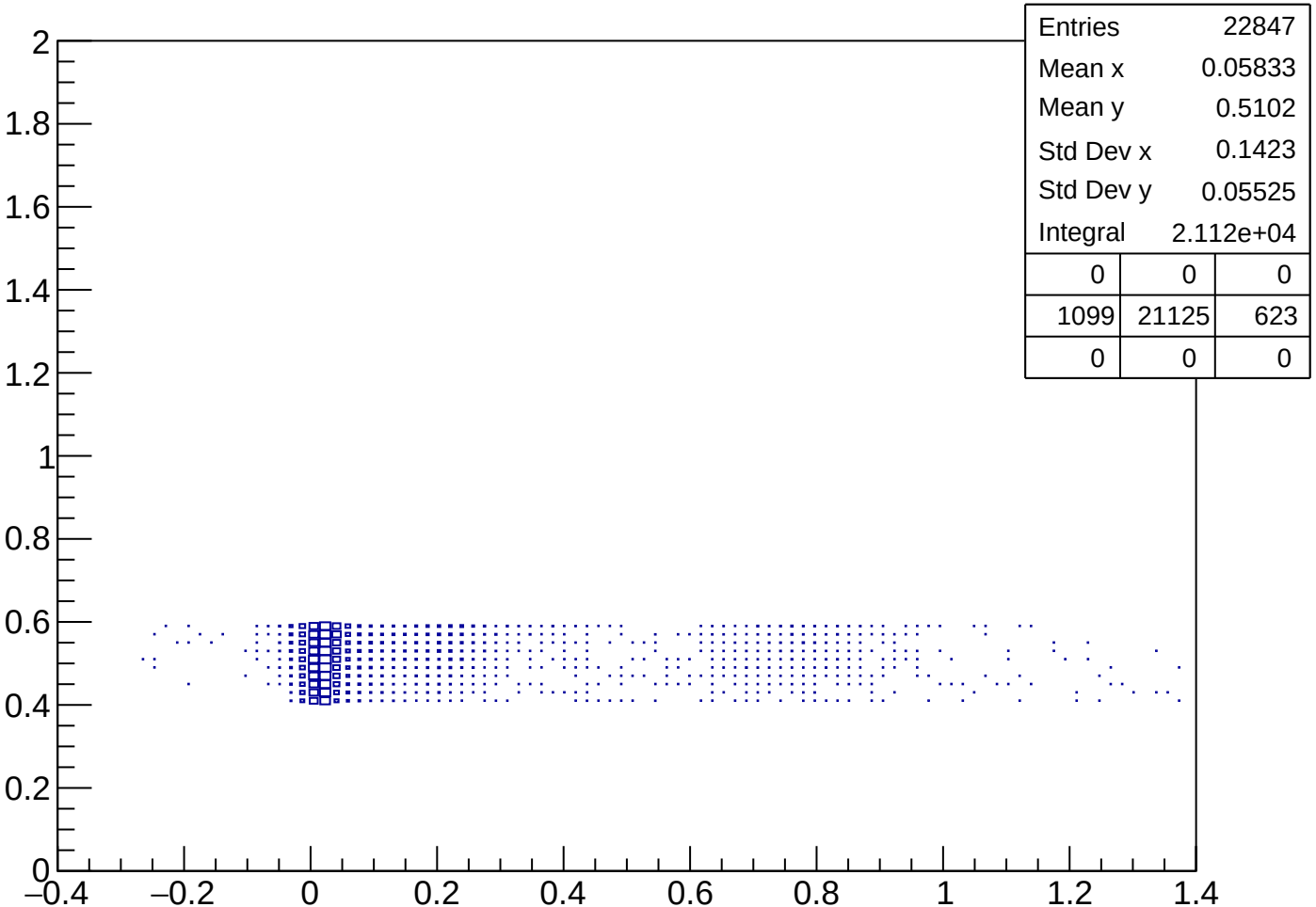


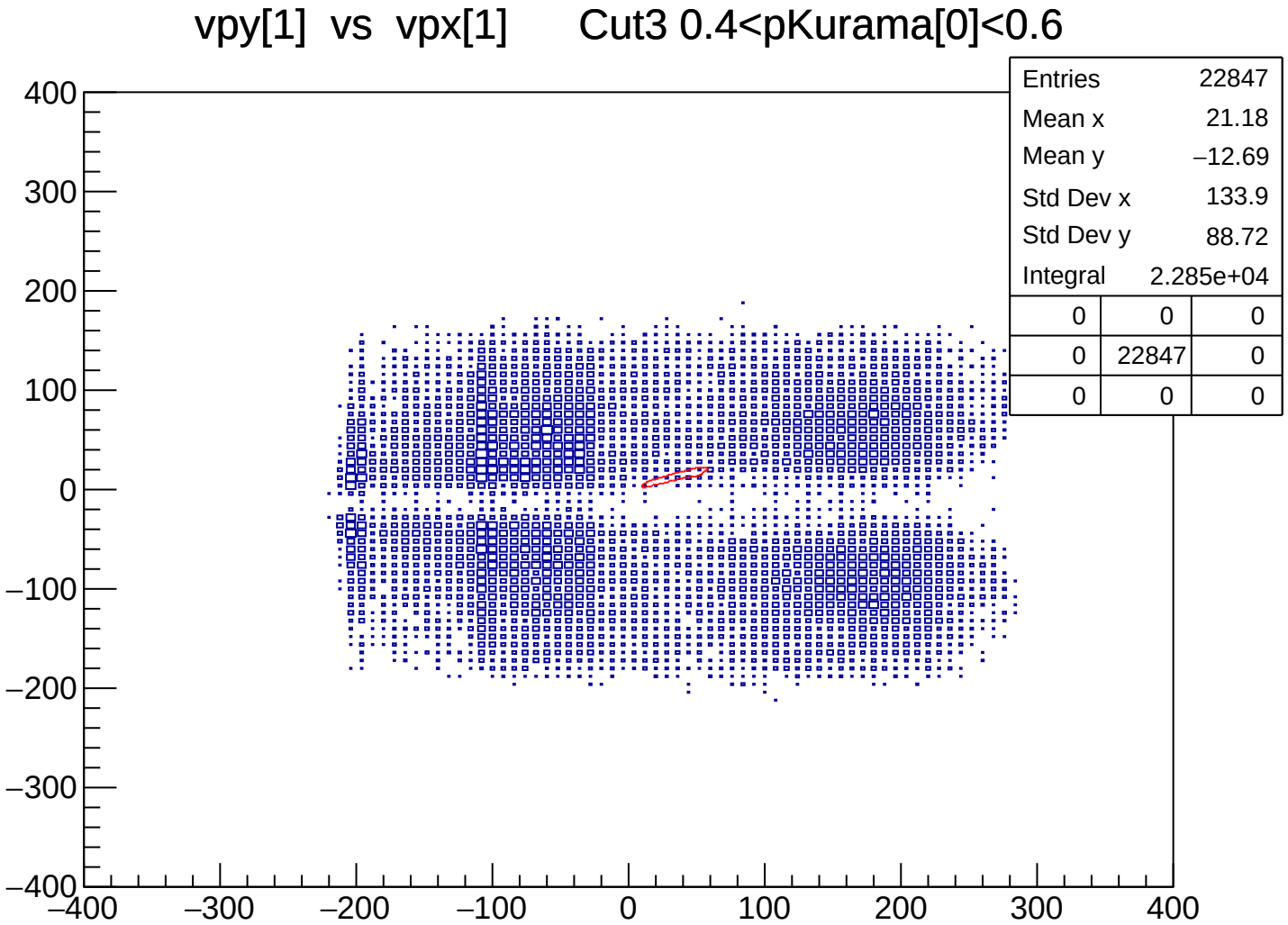

vpy[1] vs vpx[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 79.46
Mean y −17.33
Std Dev x 97.13
Std Dev y 93.29
Integral 4305
0 0 0
0 4305 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

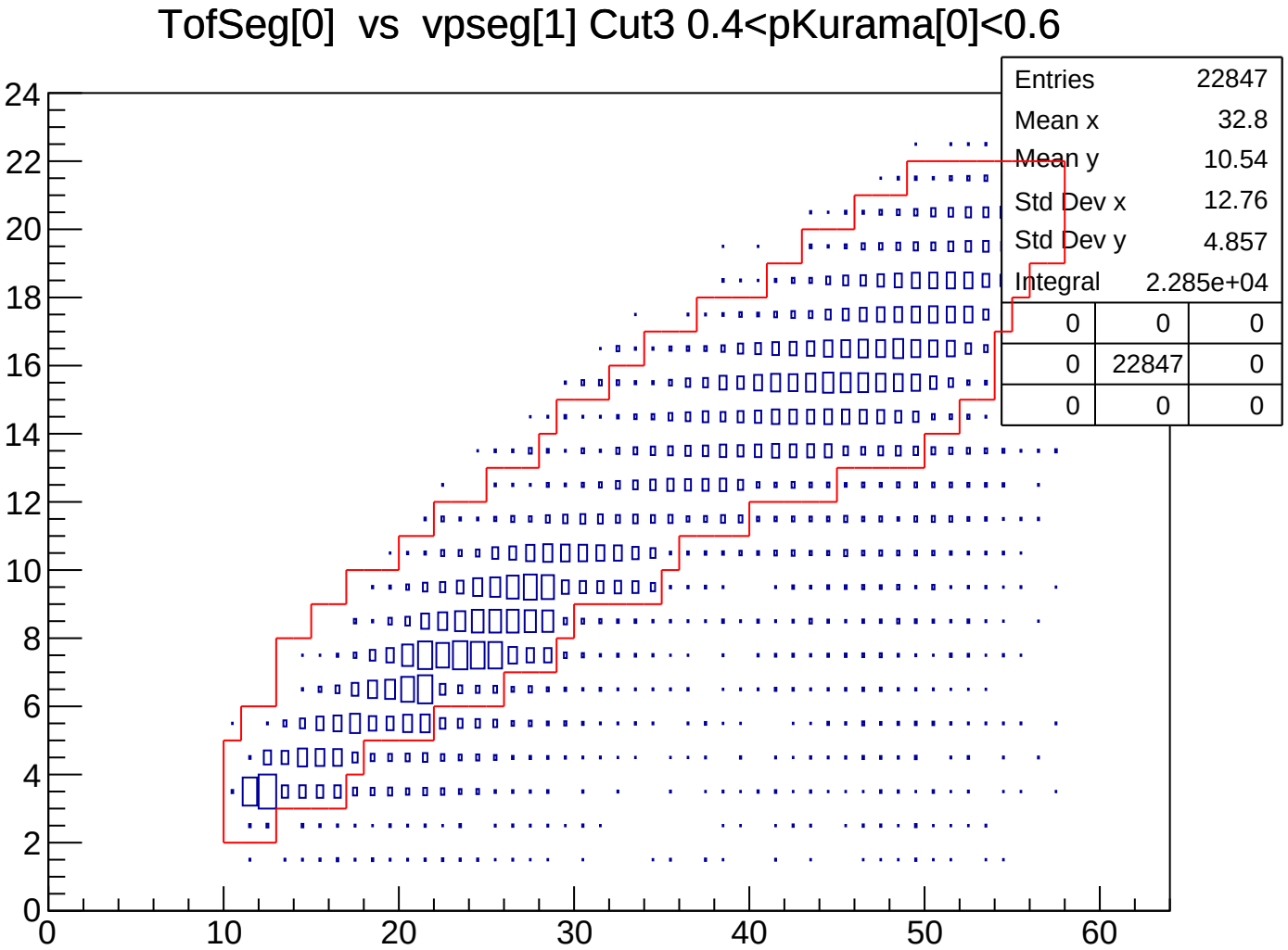

TofSeg[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 38.34
Mean y 8.604
Std Dev x 9.242
Std Dev y 4.867
Integral 4305
0 0 0
0 4305 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

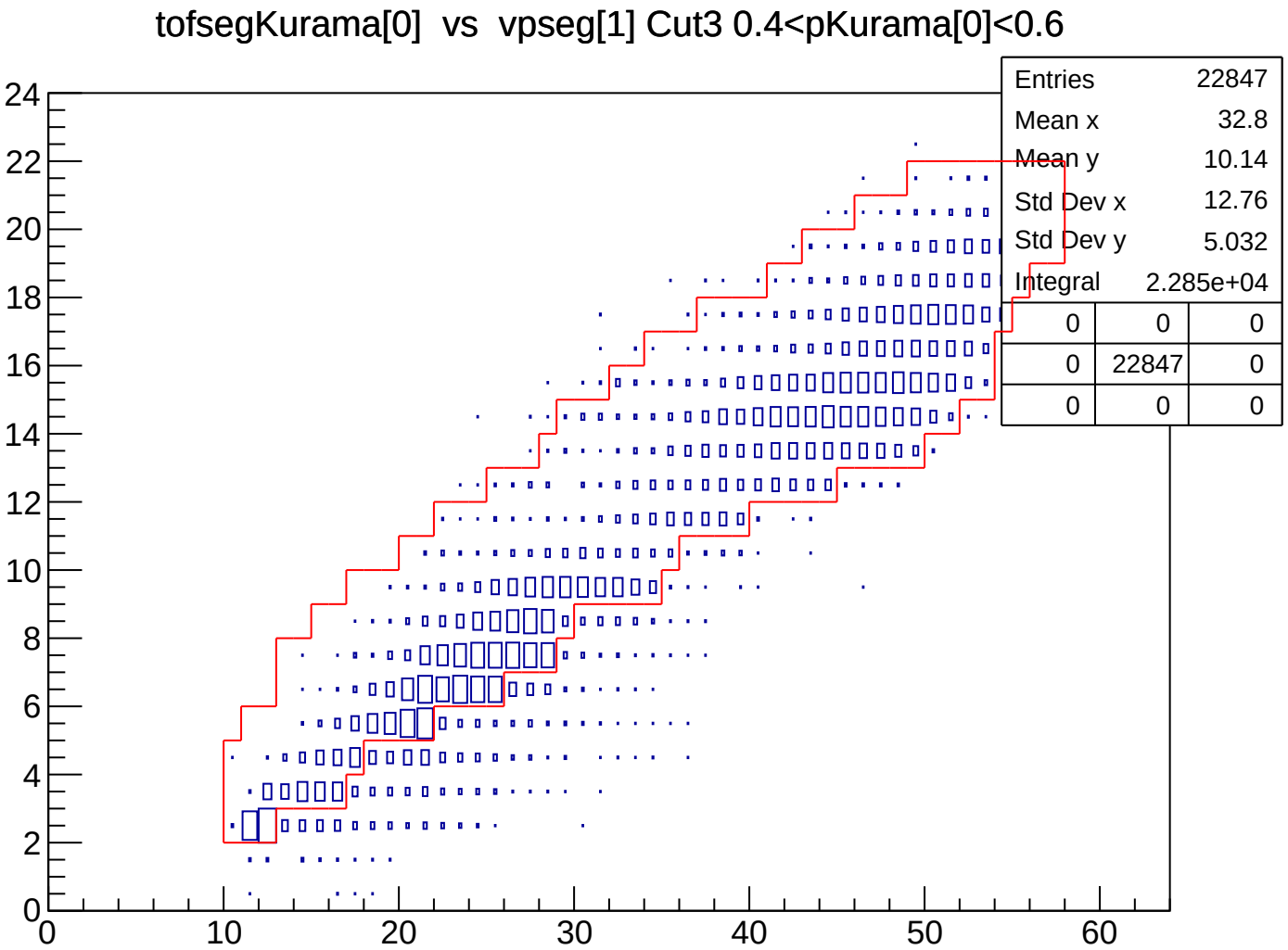

tofsegKurama[0] vs vpseg[1] Cut3 0.2<pKurama[0]<0.4
Entries 4305
Mean x 38.34
Mean y 8.059
Std Dev x 9.242
Std Dev y 4.965
Integral 4305
0 0 0
0 4305 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 0.4<pKurama[0]<0.6

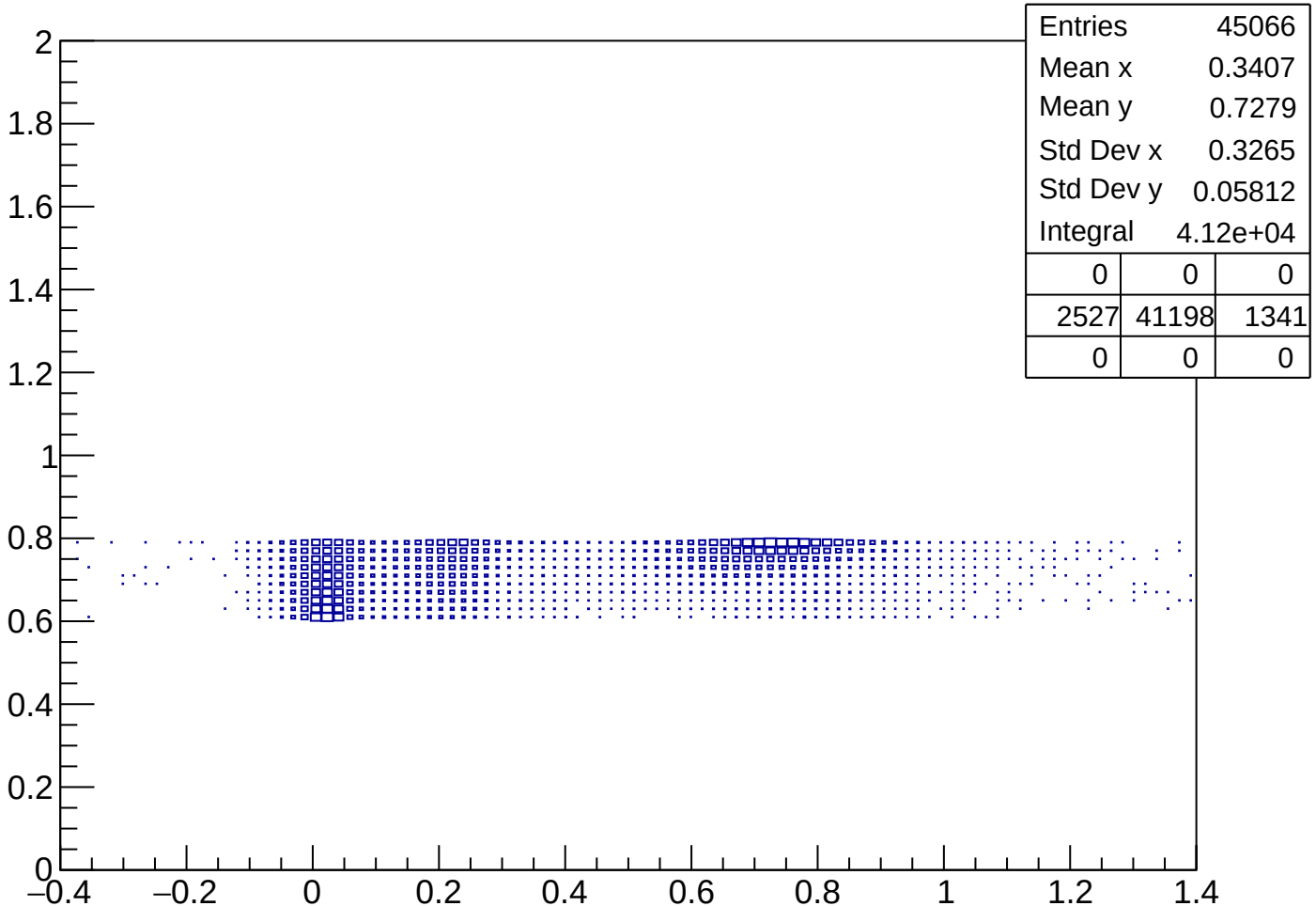


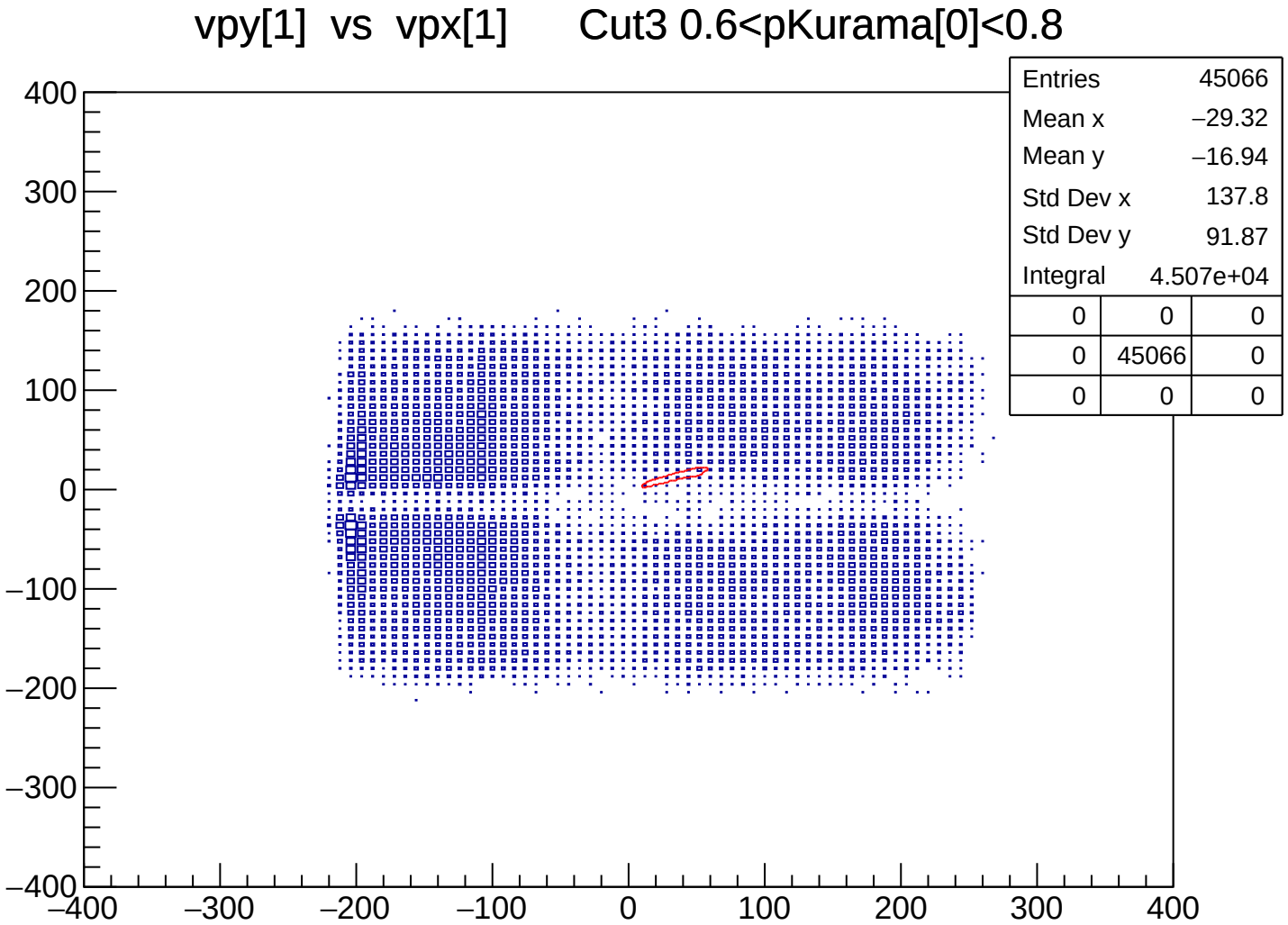

vpy[1] vs vpx[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 21.18
Mean y −12.69
Std Dev x 133.9
Std Dev y 88.72
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

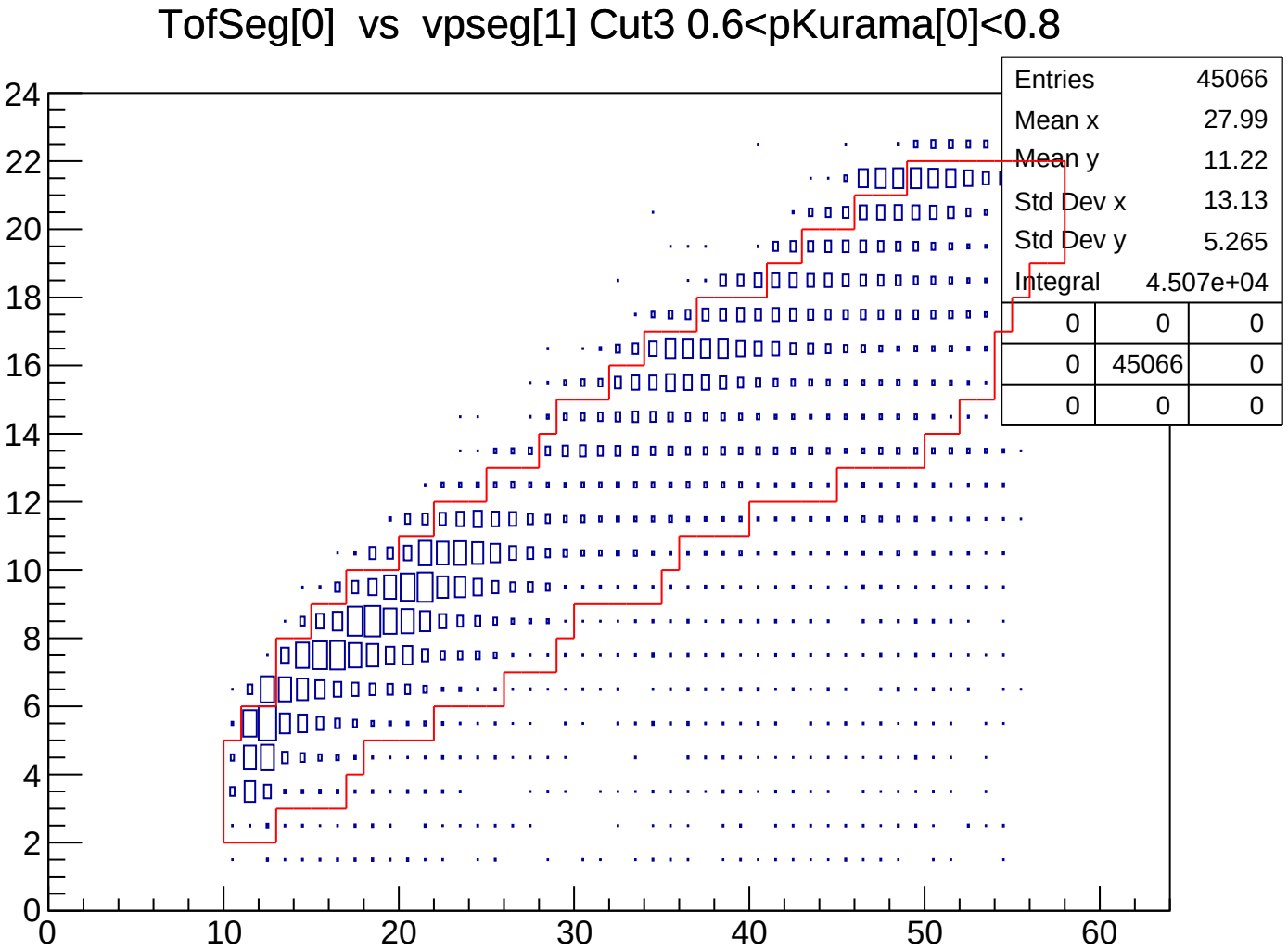

TofSeg[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 32.8
Mean y 10.54
Std Dev x 12.76
Std Dev y 4.857
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

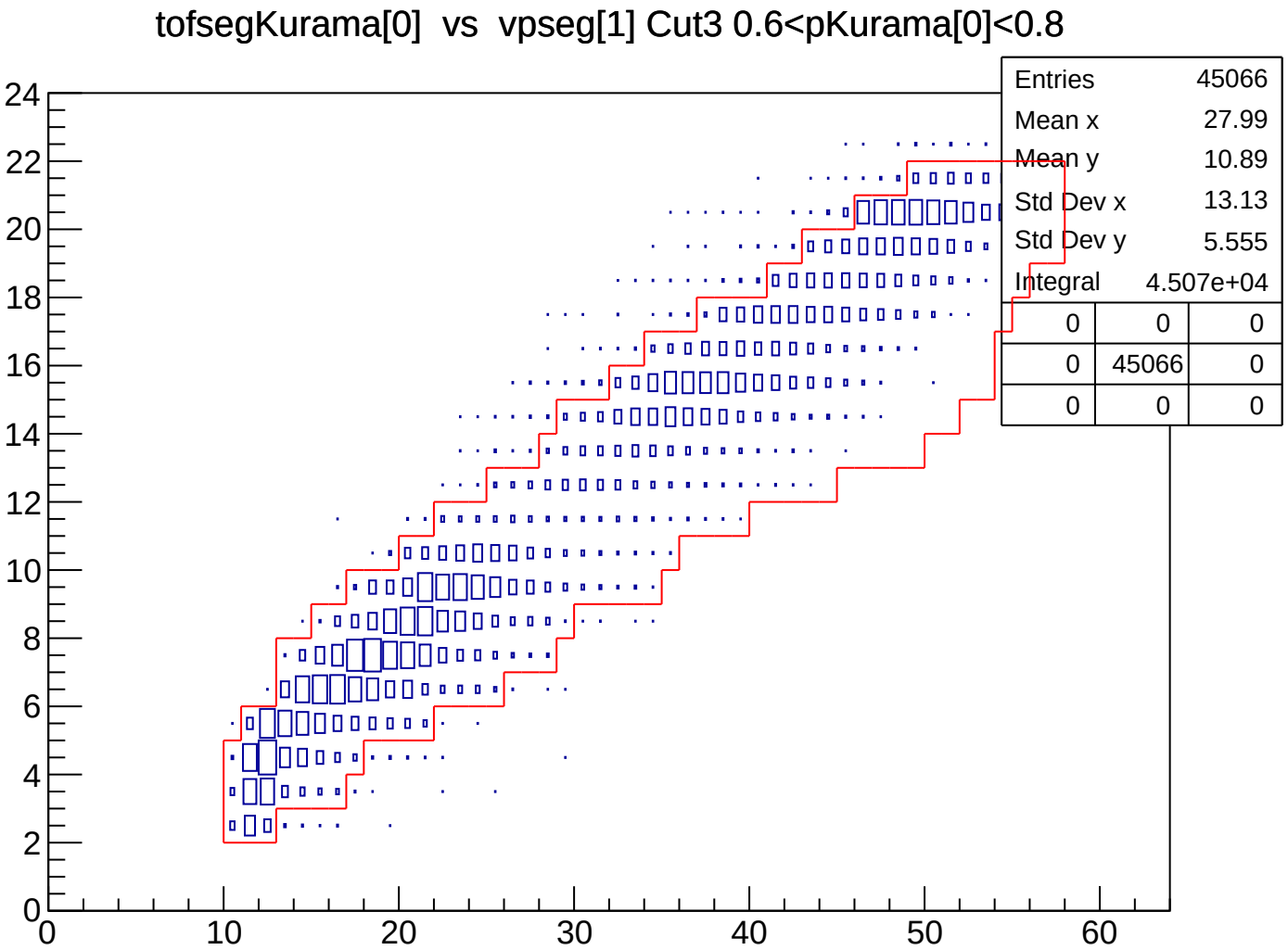

tofsegKurama[0] vs vpseg[1] Cut3 0.4<pKurama[0]<0.6
Entries 22847
Mean x 32.8
Mean y 10.14
Std Dev x 12.76
Std Dev y 5.032
Integral 2.285e+04
0 0 0
0 22847 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 0.6<pKurama[0]<0.8

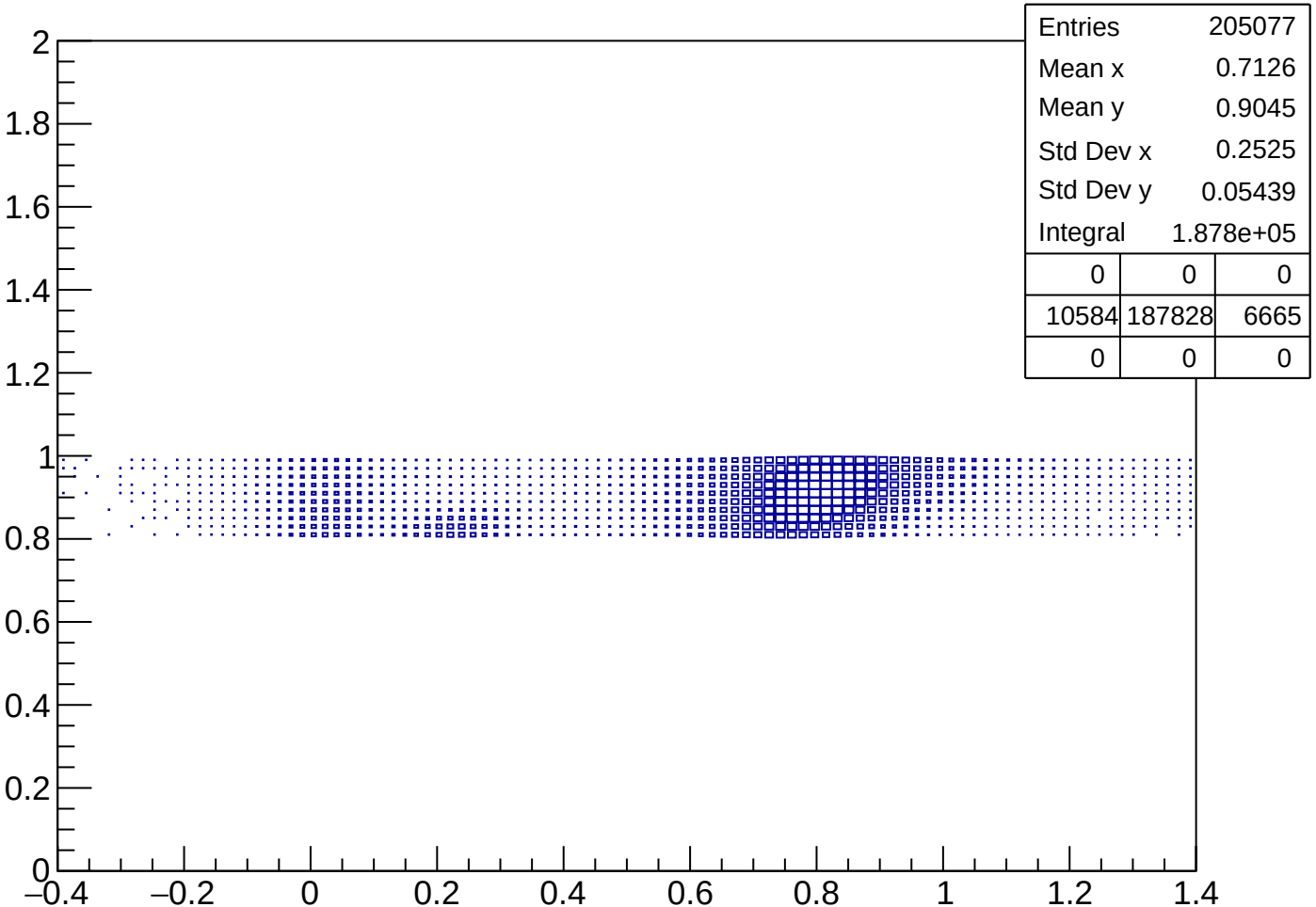


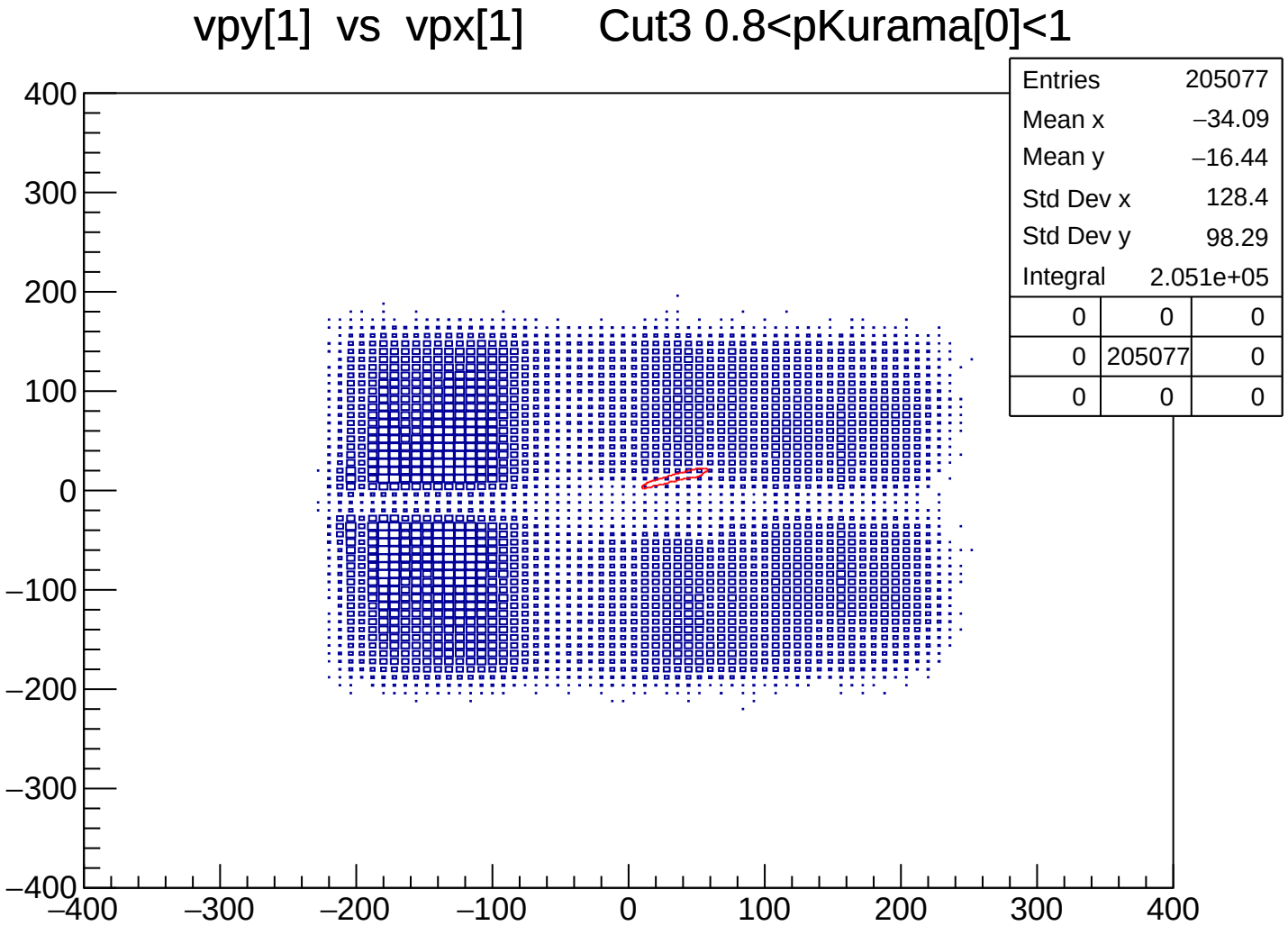

vpy[1] vs vpx[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x −29.32
Mean y −16.94
Std Dev x 137.8
Std Dev y 91.87
Integral 4.507e+04
0 0 0
0 45066 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

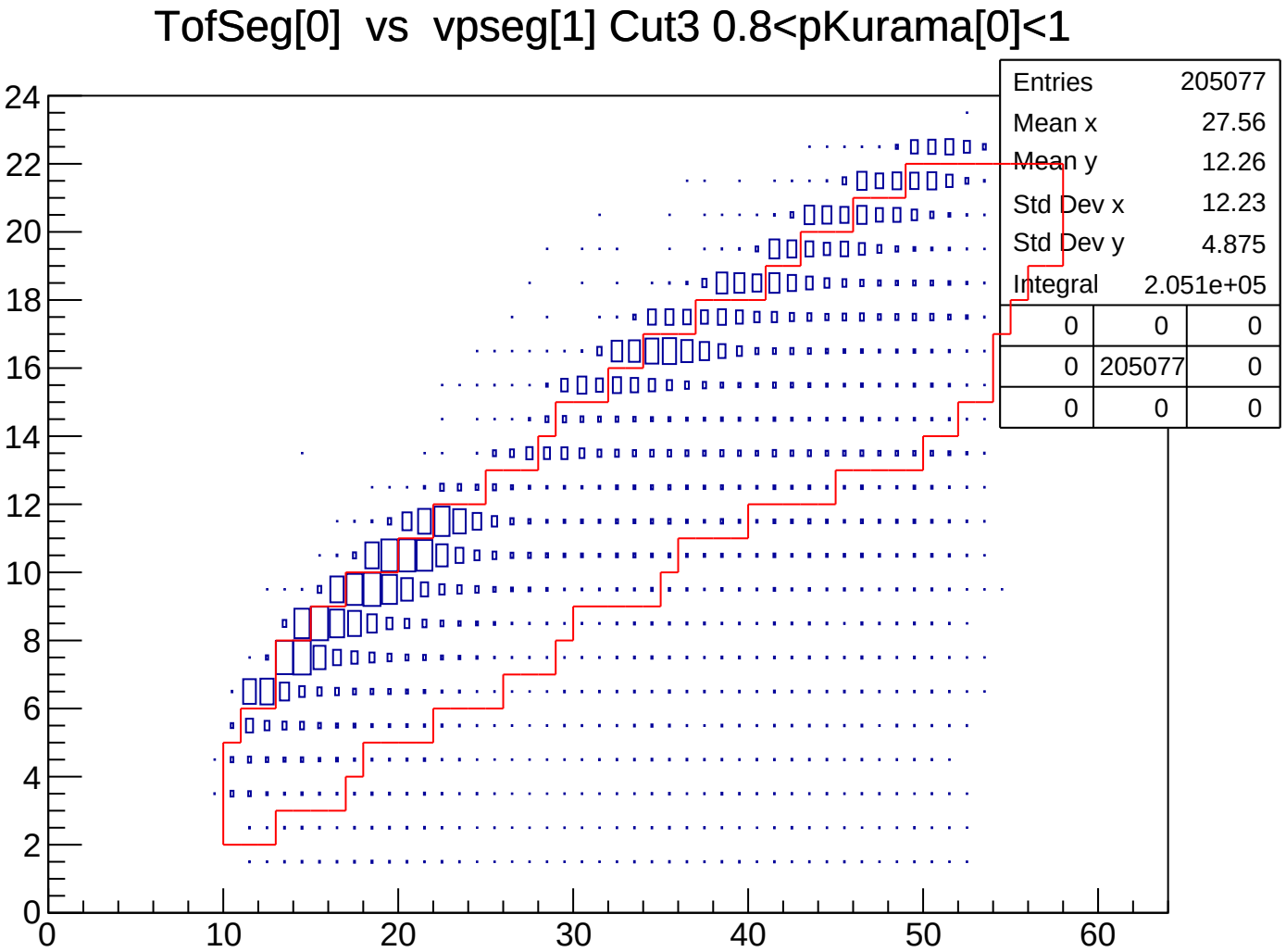

TofSeg[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x 27.99
Mean y 11.22
Std Dev x 13.13
Std Dev y 5.265
Integral 4.507e+04
0 0 0
0 45066 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

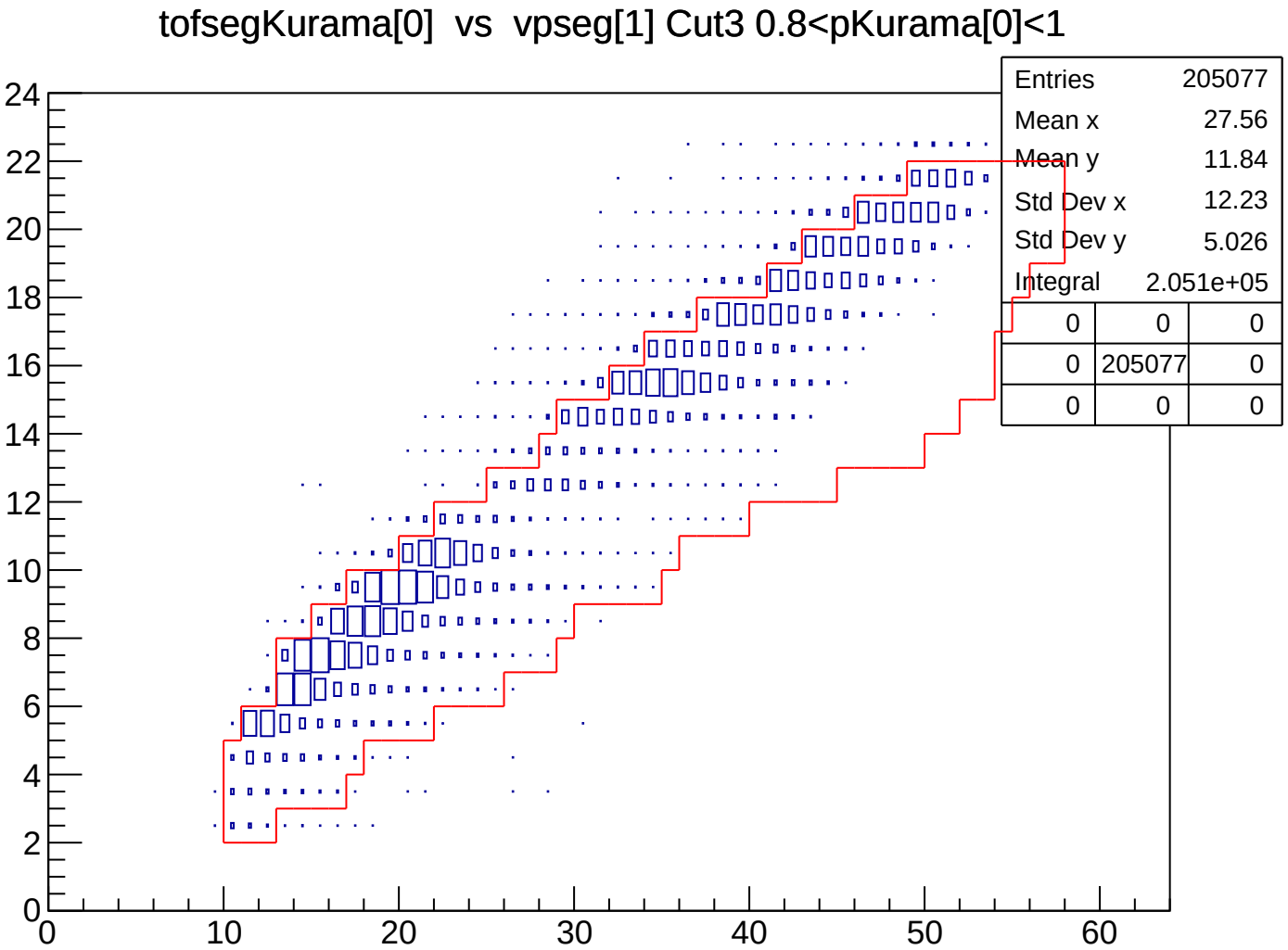

tofsegKurama[0] vs vpseg[1] Cut3 0.6<pKurama[0]<0.8
Entries 45066
Mean x 27.99
Mean y 10.89
Std Dev x 13.13
Std Dev y 5.555
Integral 4.507e+04
0 0 0
0 45066 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 0.8<pKurama[0]<1

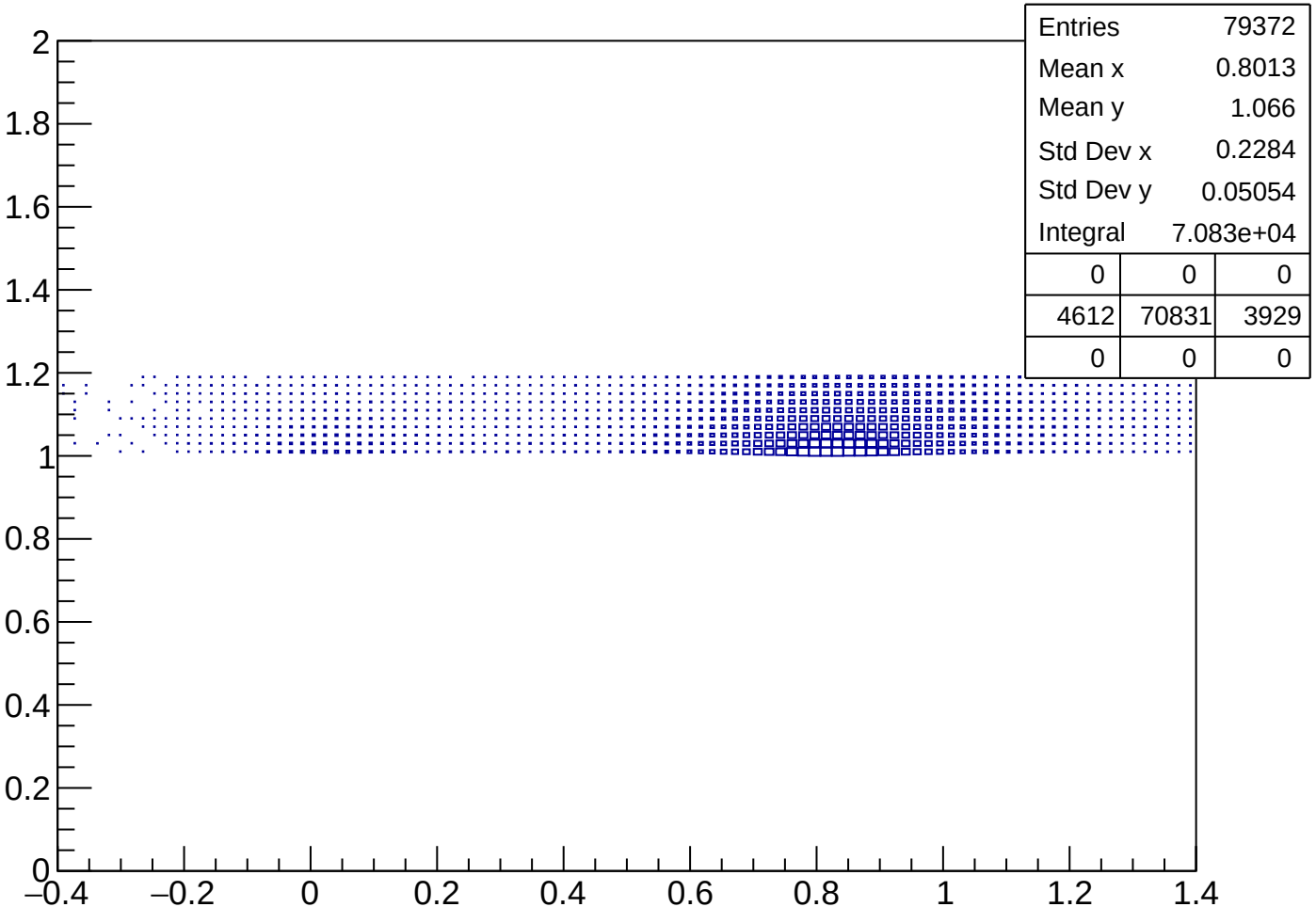


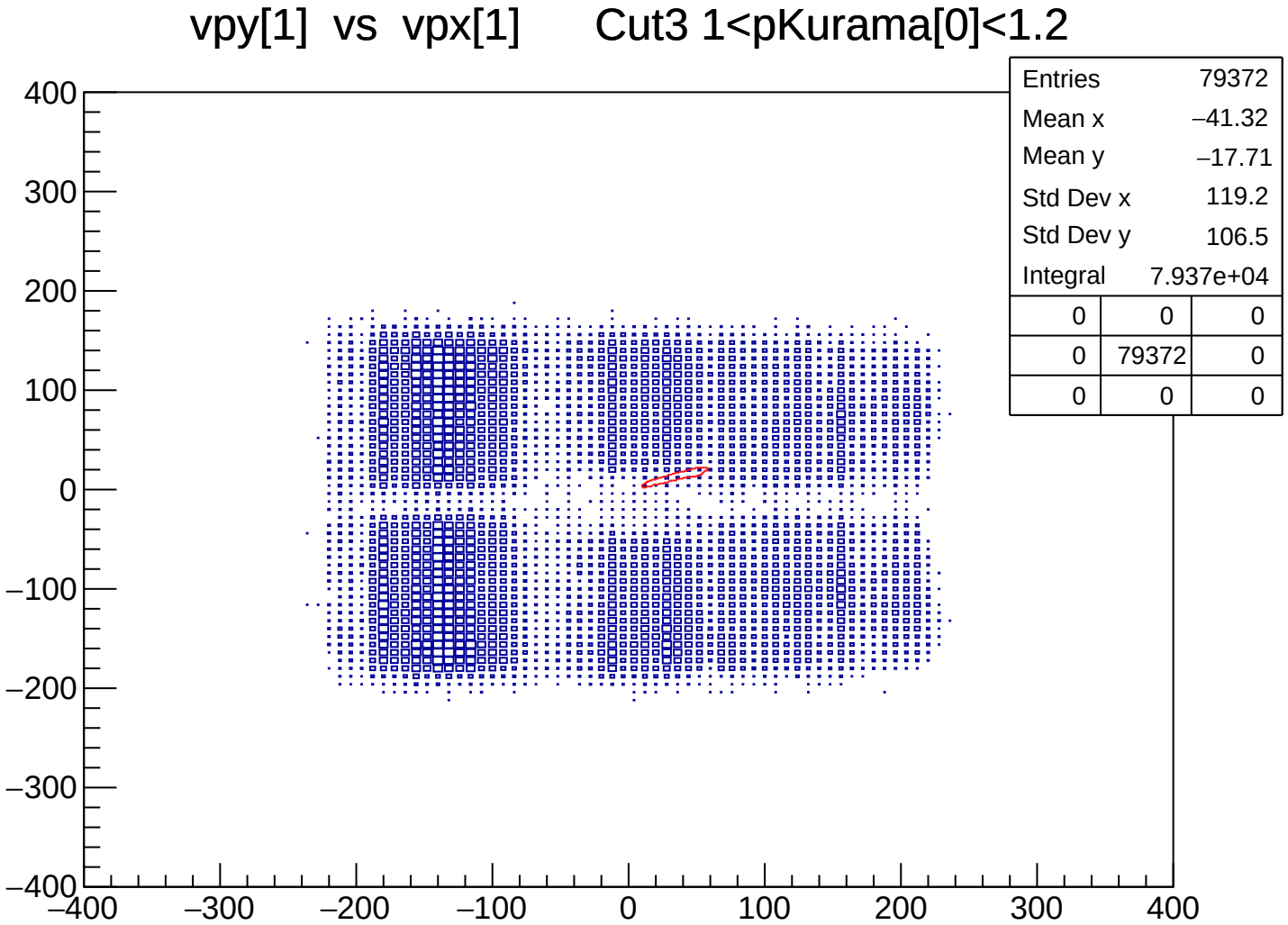

vpy[1] vs vpx[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x –34.09
Mean y –16.44
Std Dev x 128.4
Std Dev y 98.29
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

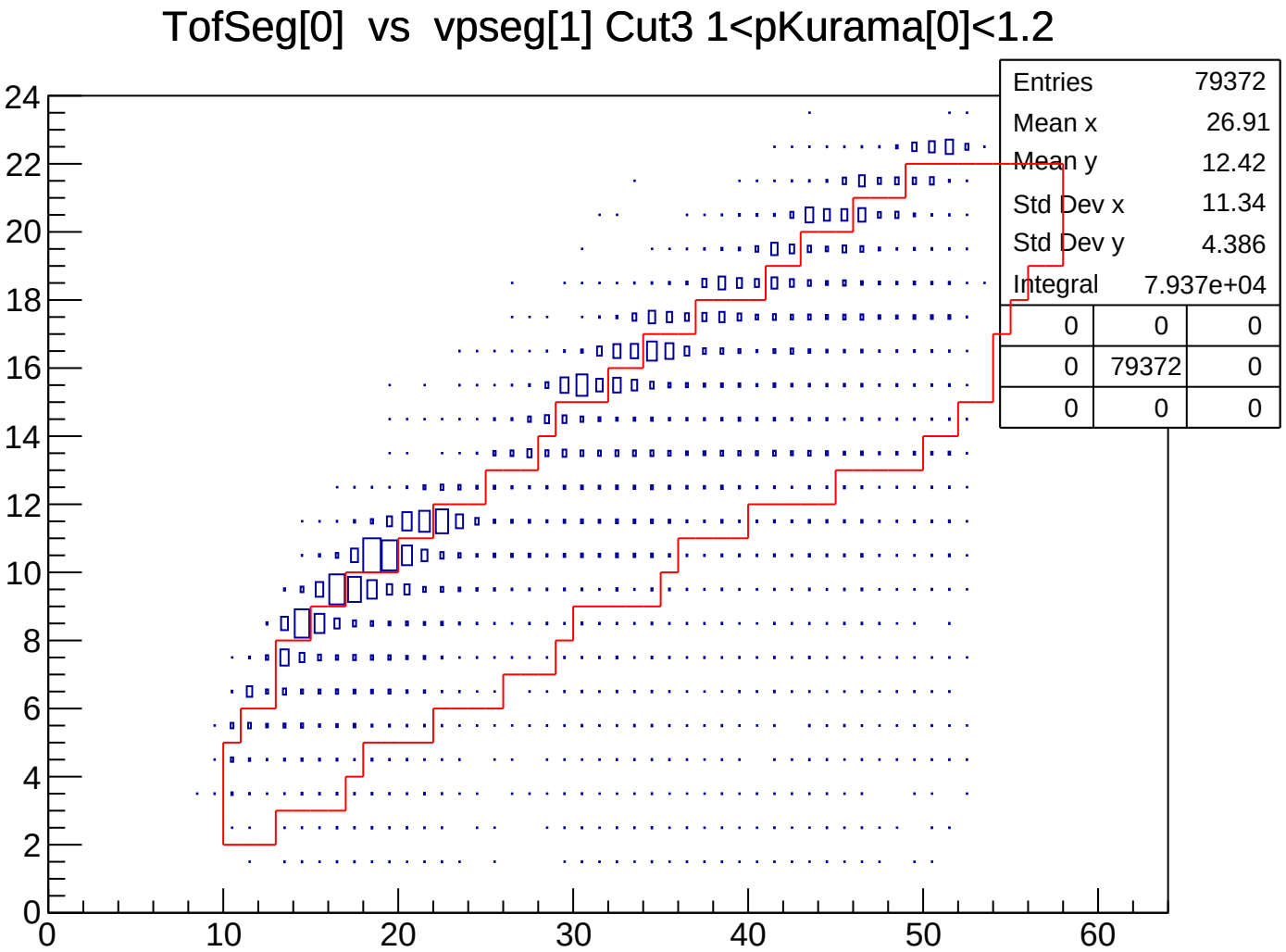

TofSeg[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x 27.56
Mean y 12.26
Std Dev x 12.23
Std Dev y 4.875
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

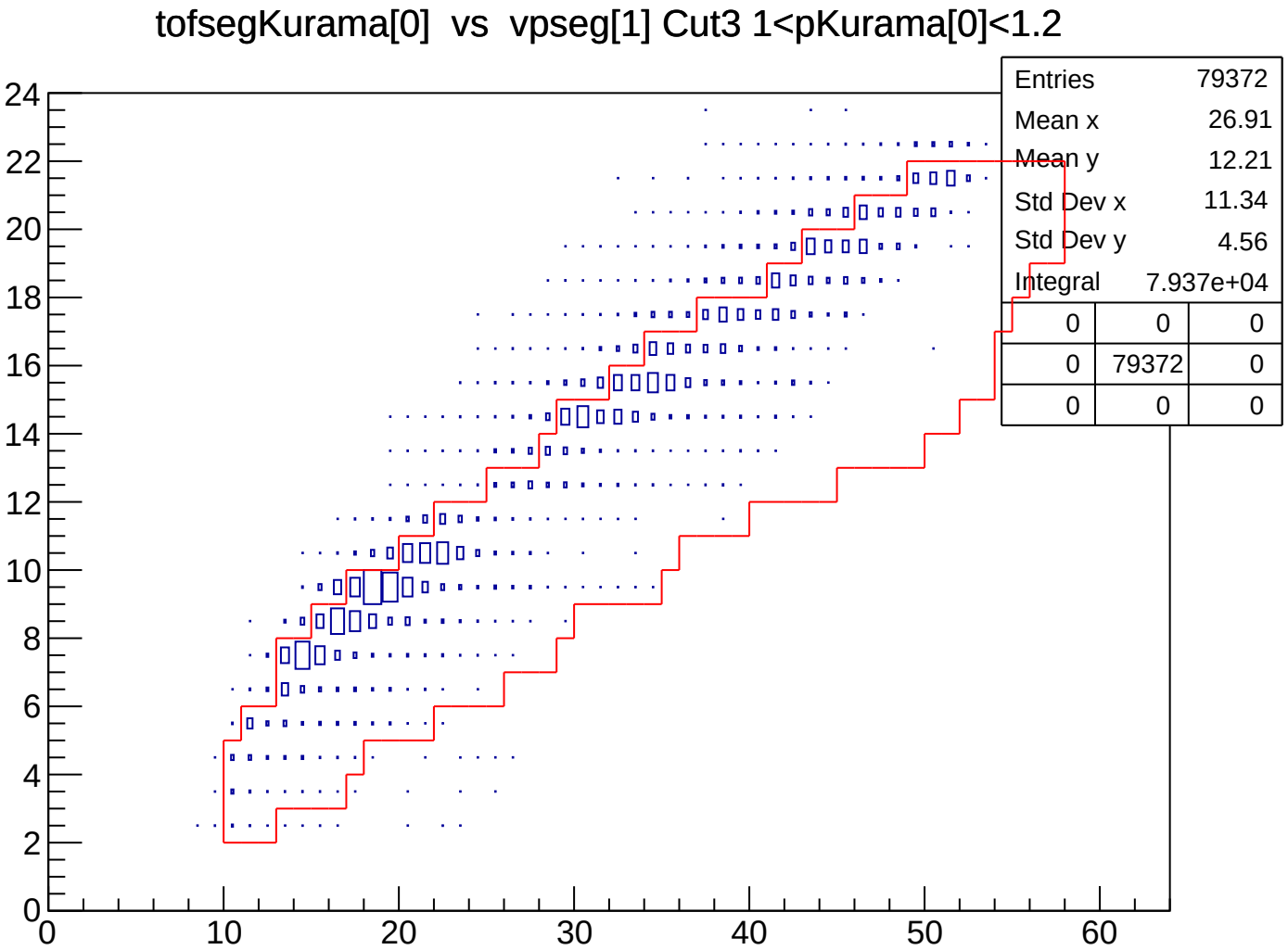

tofsegKurama[0] vs vpseg[1] Cut3 0.8<pKurama[0]<1
Entries 205077
Mean x 27.56
Mean y 11.84
Std Dev x 12.23
Std Dev y 5.026
Integral 2.051e+05
0 0 0
0 205077 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

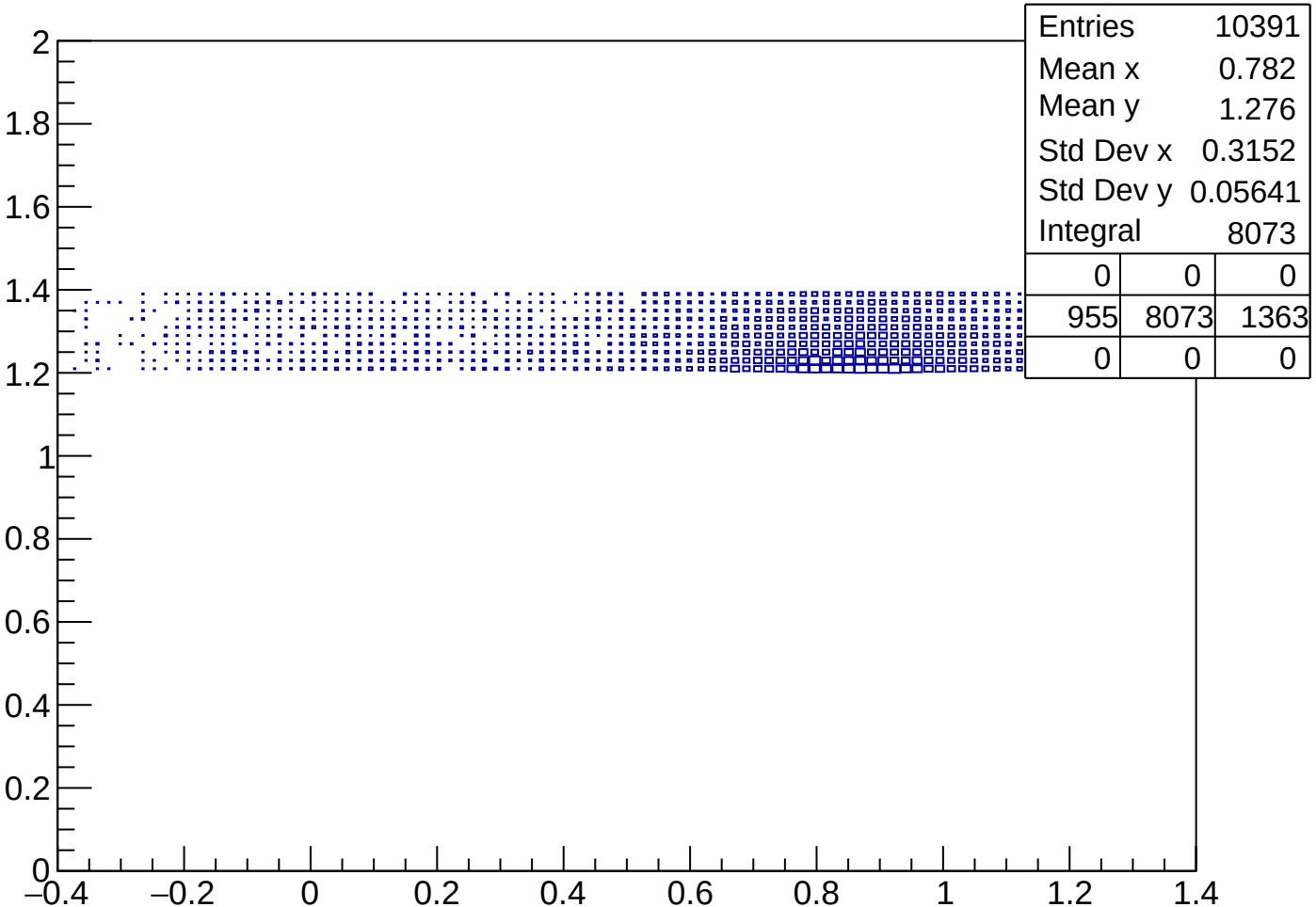


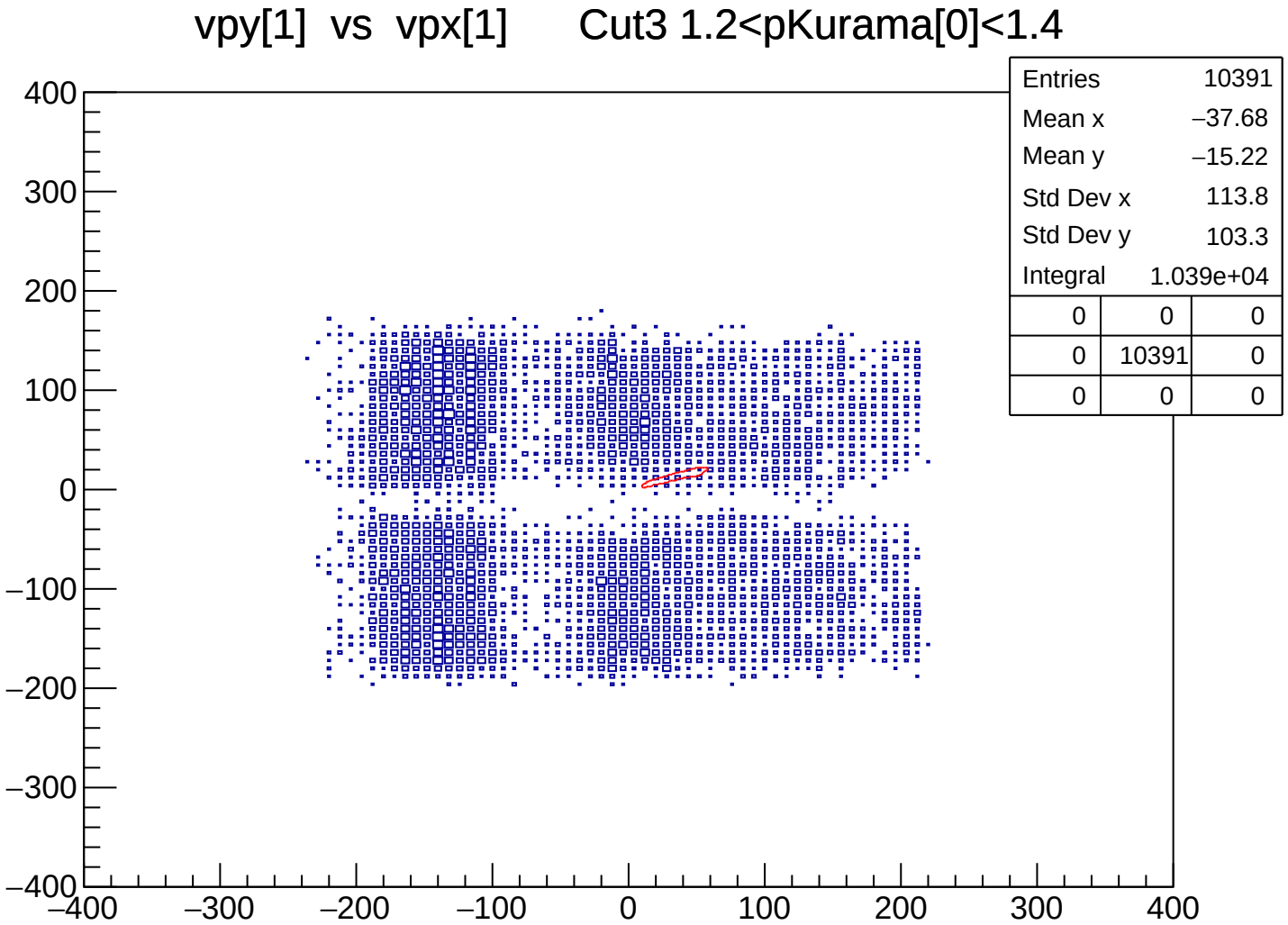

vpy[1] vs vpx[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x –41.32
Mean y –17.71
Std Dev x 119.2
Std Dev y 106.5
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

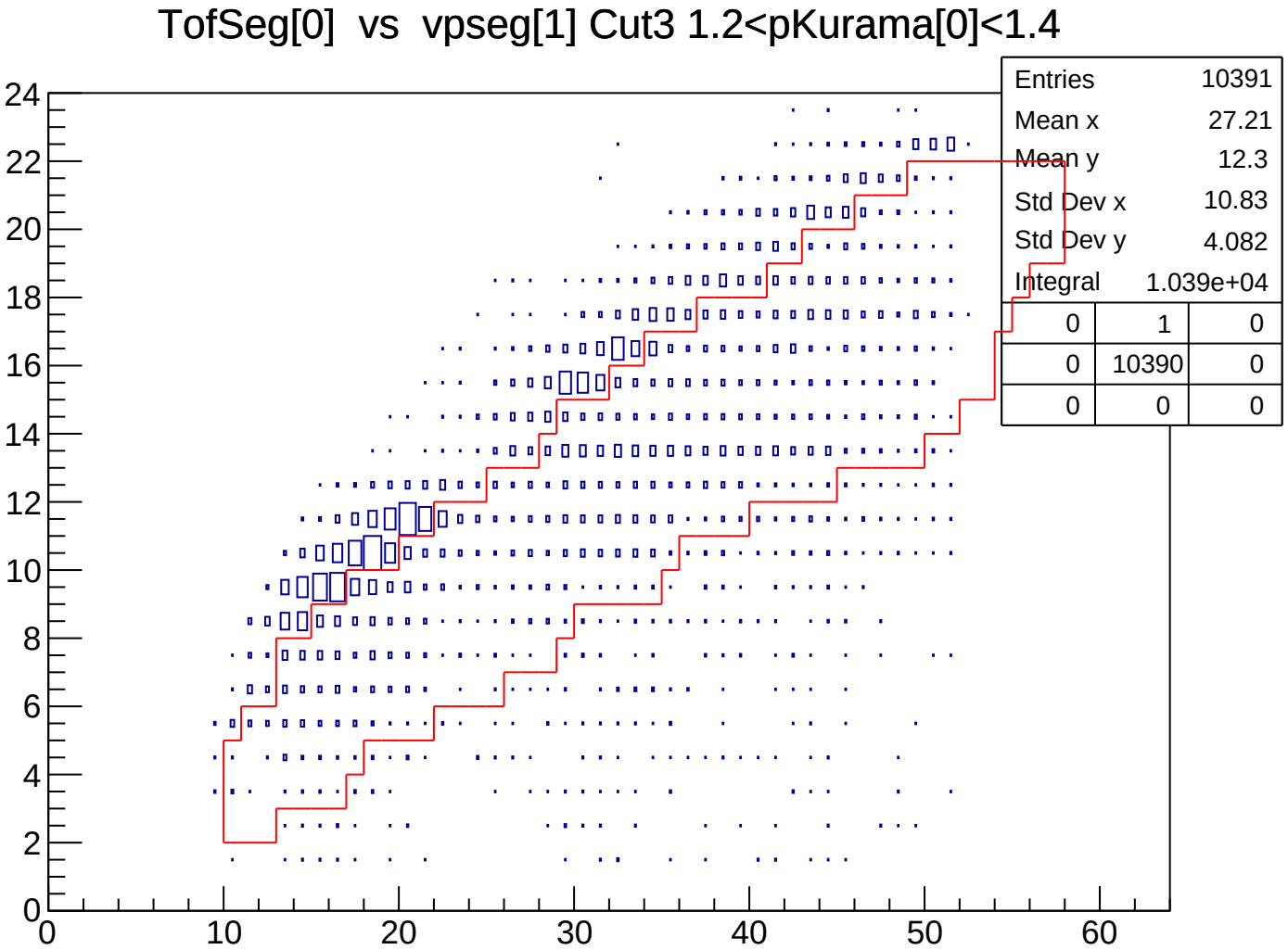

TofSeg[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x 26.91
Mean y 12.42
Std Dev x 11.34
Std Dev y 4.386
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

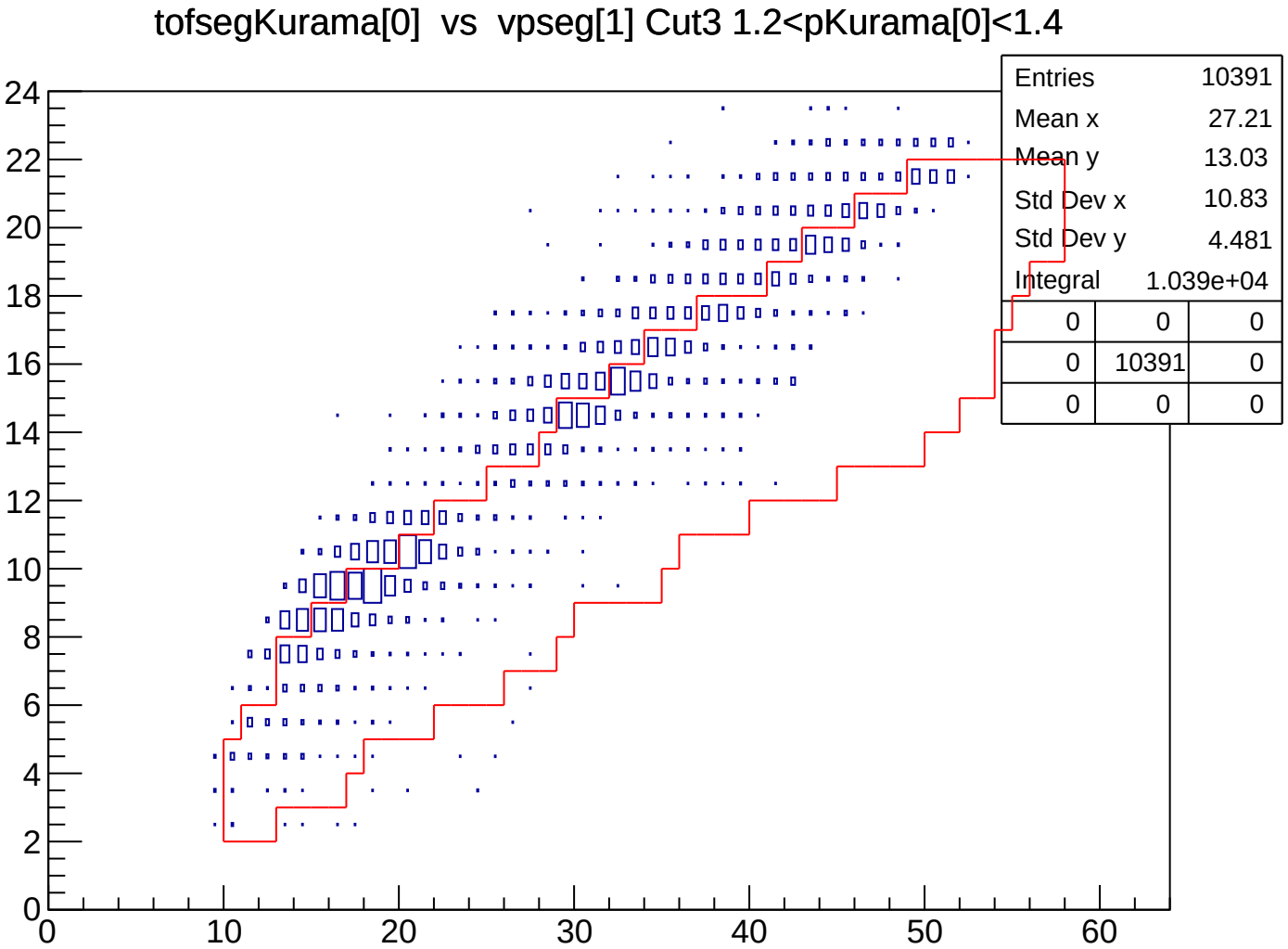

tofsegKurama[0] vs vpseg[1] Cut3 1<pKurama[0]<1.2
Entries 79372
Mean x 26.91
Mean y 12.21
Std Dev x 11.34
Std Dev y 4.56
Integral 7.937e+04
0 0 0
0 79372 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

pKurama vs m2 Cut3 1.2<pKurama[0]<1.4

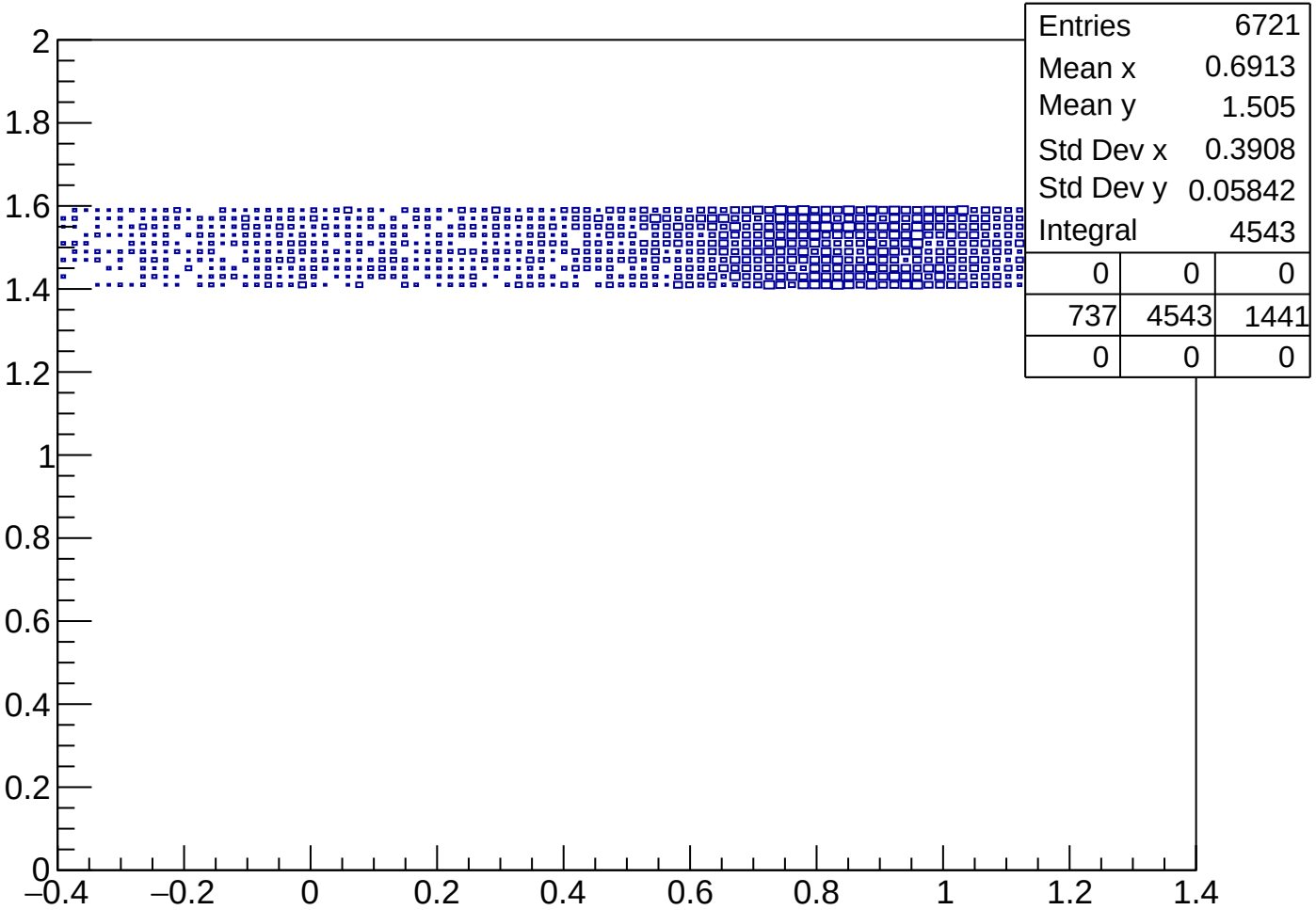


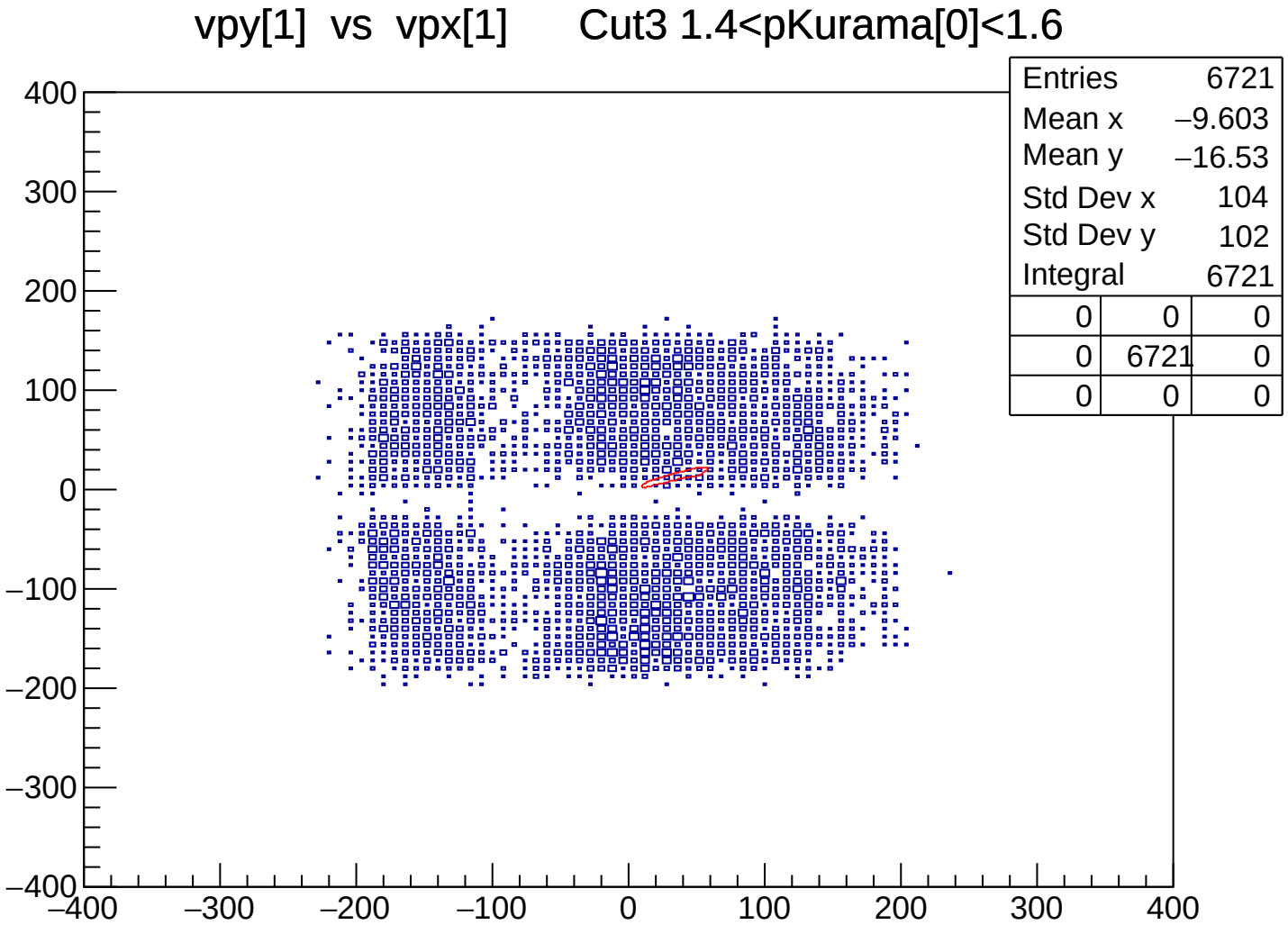

vpy[1] vs vpx[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x –37.68
Mean y –15.22
Std Dev x 113.8
Std Dev y 103.3
Integral 1.039e+04
0 0 0
0 10391 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

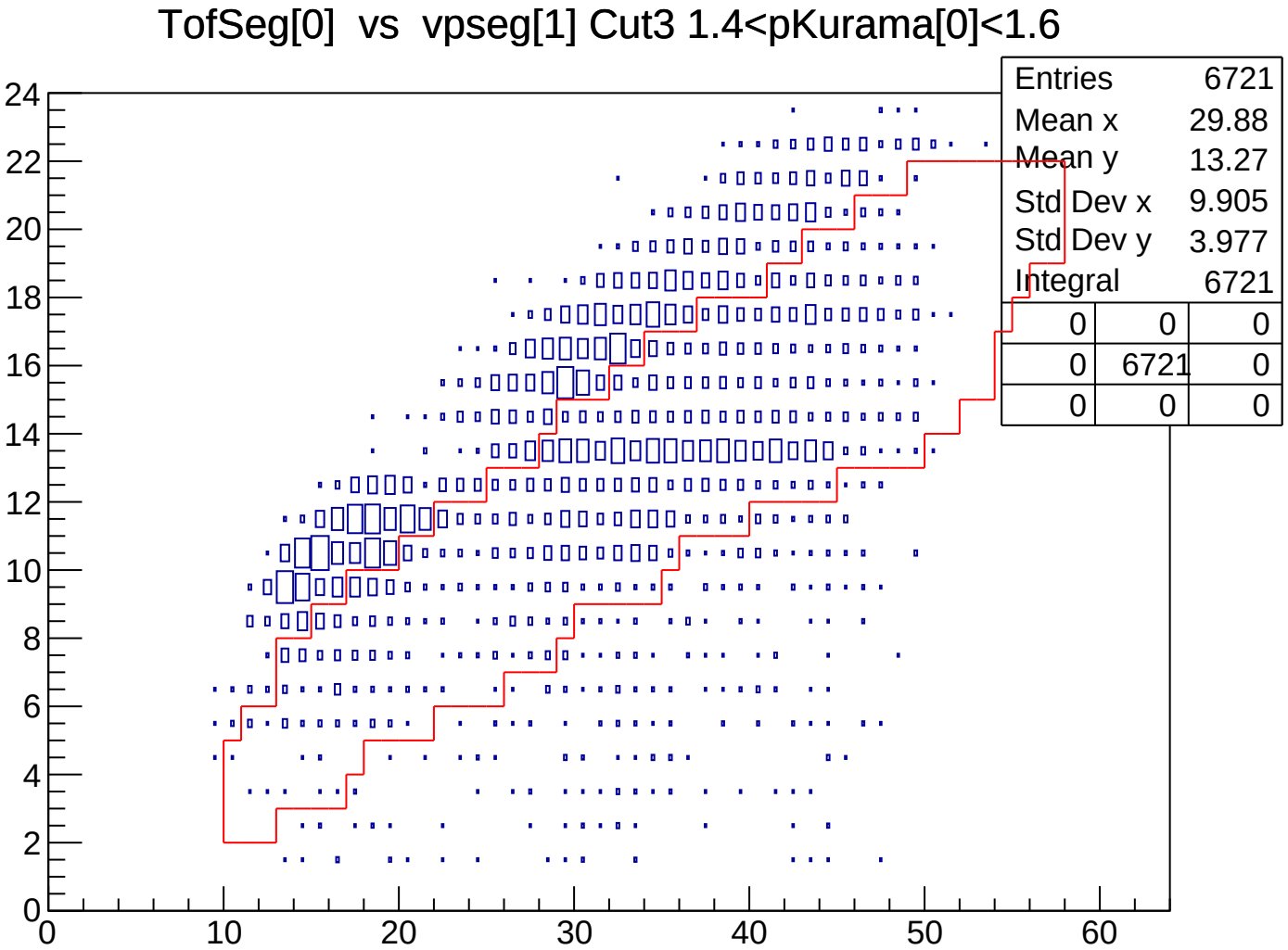

TofSeg[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x 27.21
Mean y 12.3
Std Dev x 10.83
Std Dev y 4.082
Integral 1.039e+04
0 1 0
0 10390 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

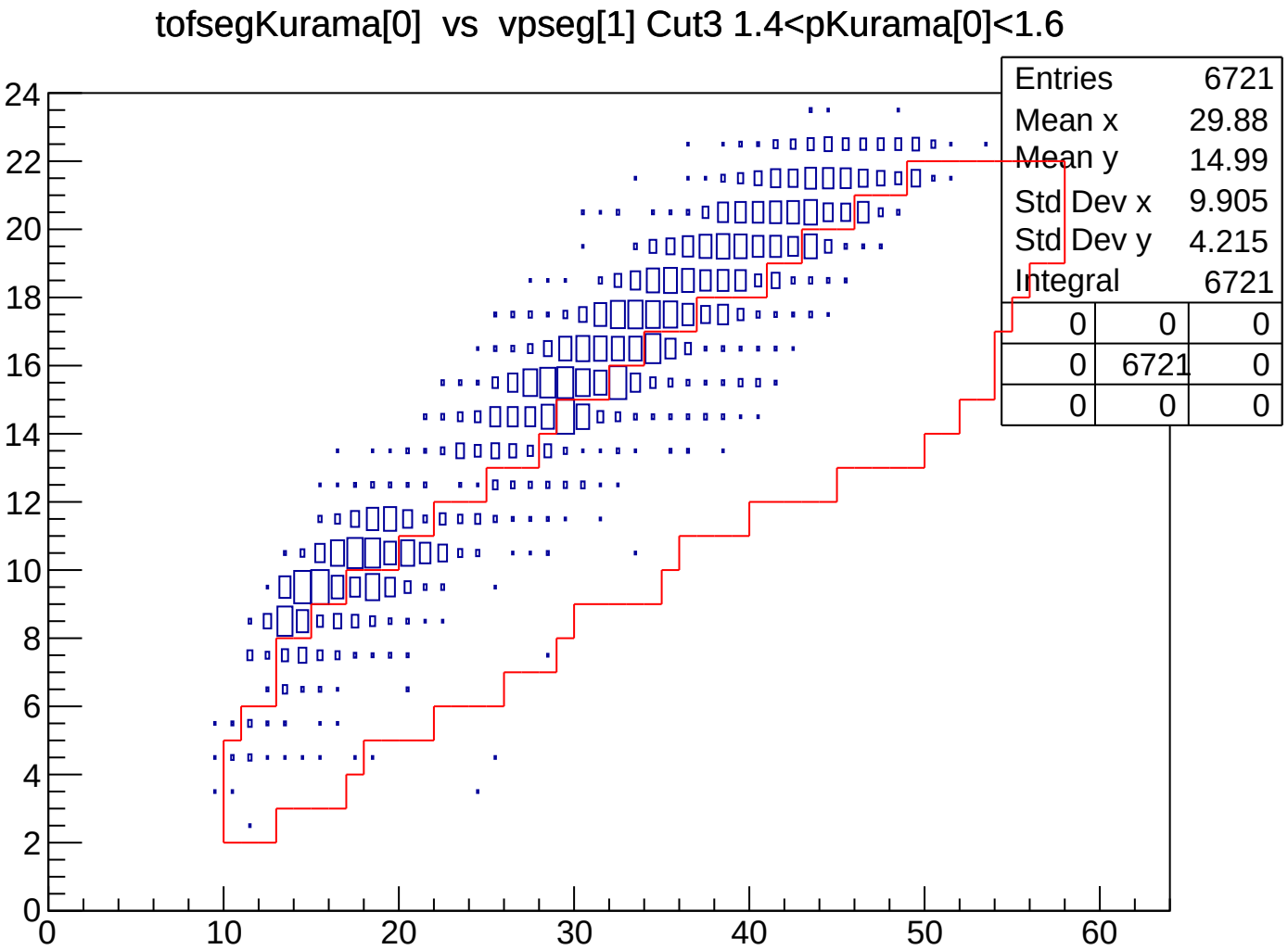

tofsegKurama[0] vs vpseg[1] Cut3 1.2<pKurama[0]<1.4
Entries 10391
Mean x 27.21
Mean y 13.03
Std Dev x 10.83
Std Dev y 4.481
Integral 1.039e+04
0 0 0
0 10391 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

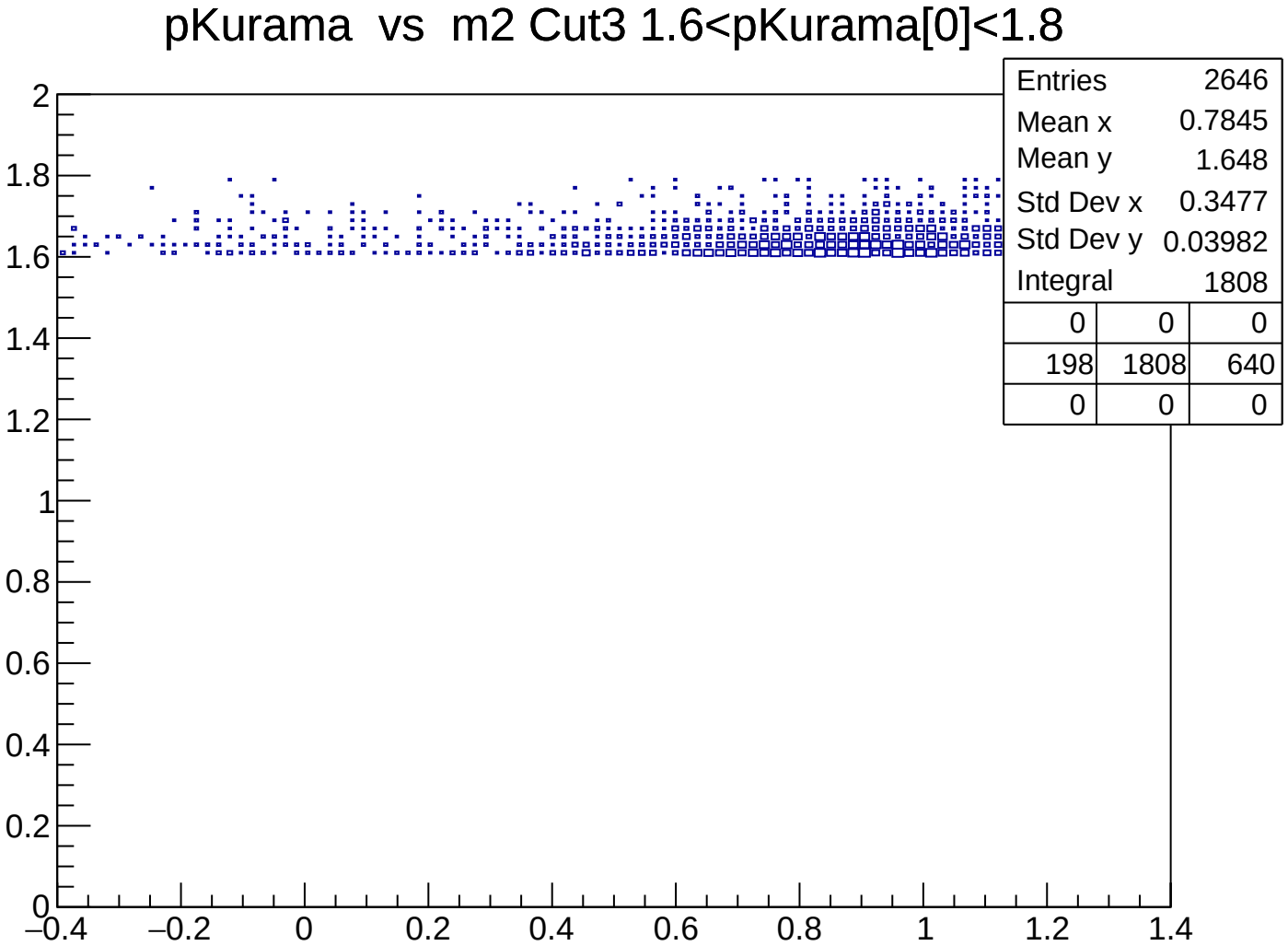
pKurama vs m2 Cut3 1.4<pKurama[0]<1.6

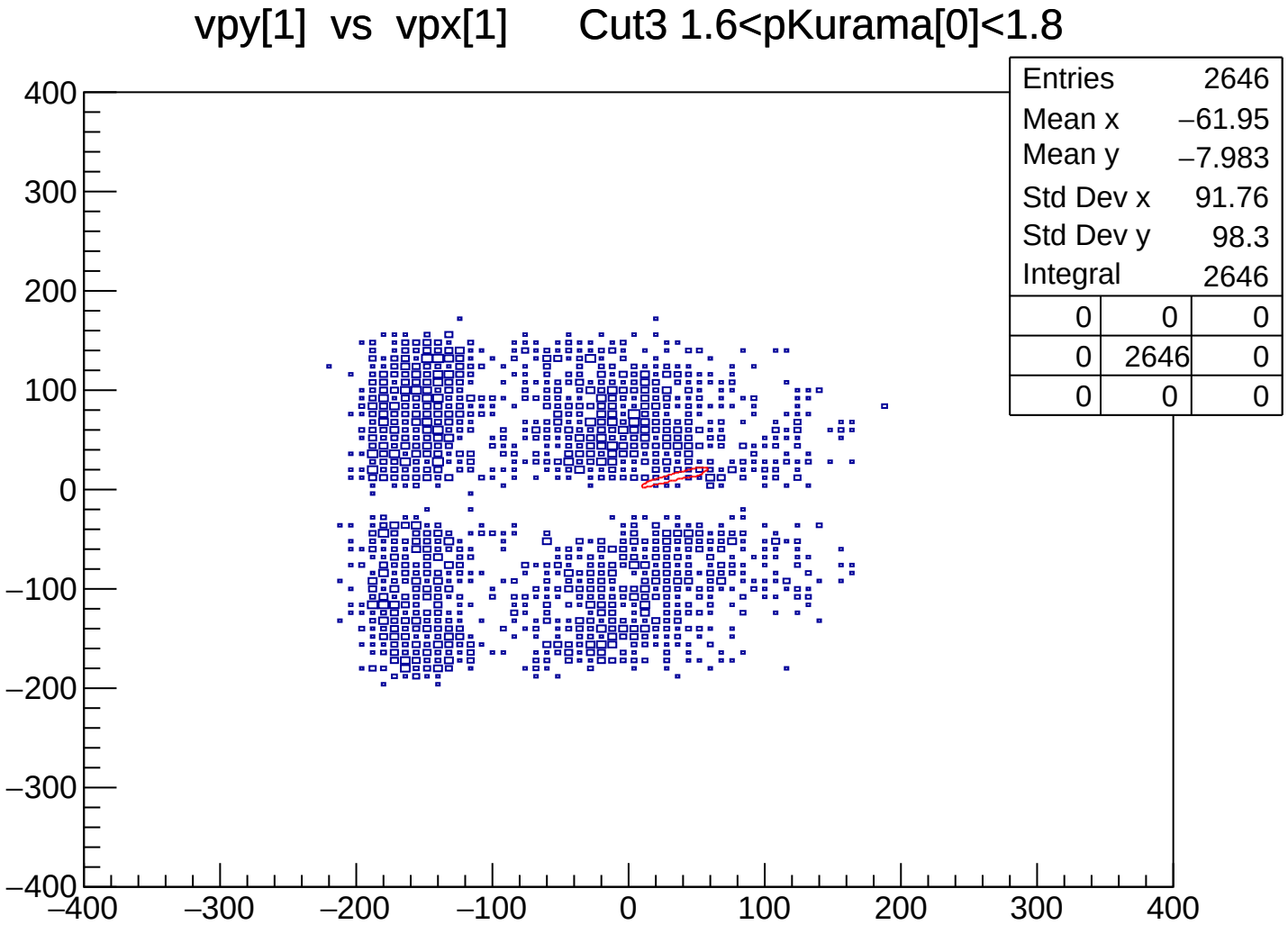


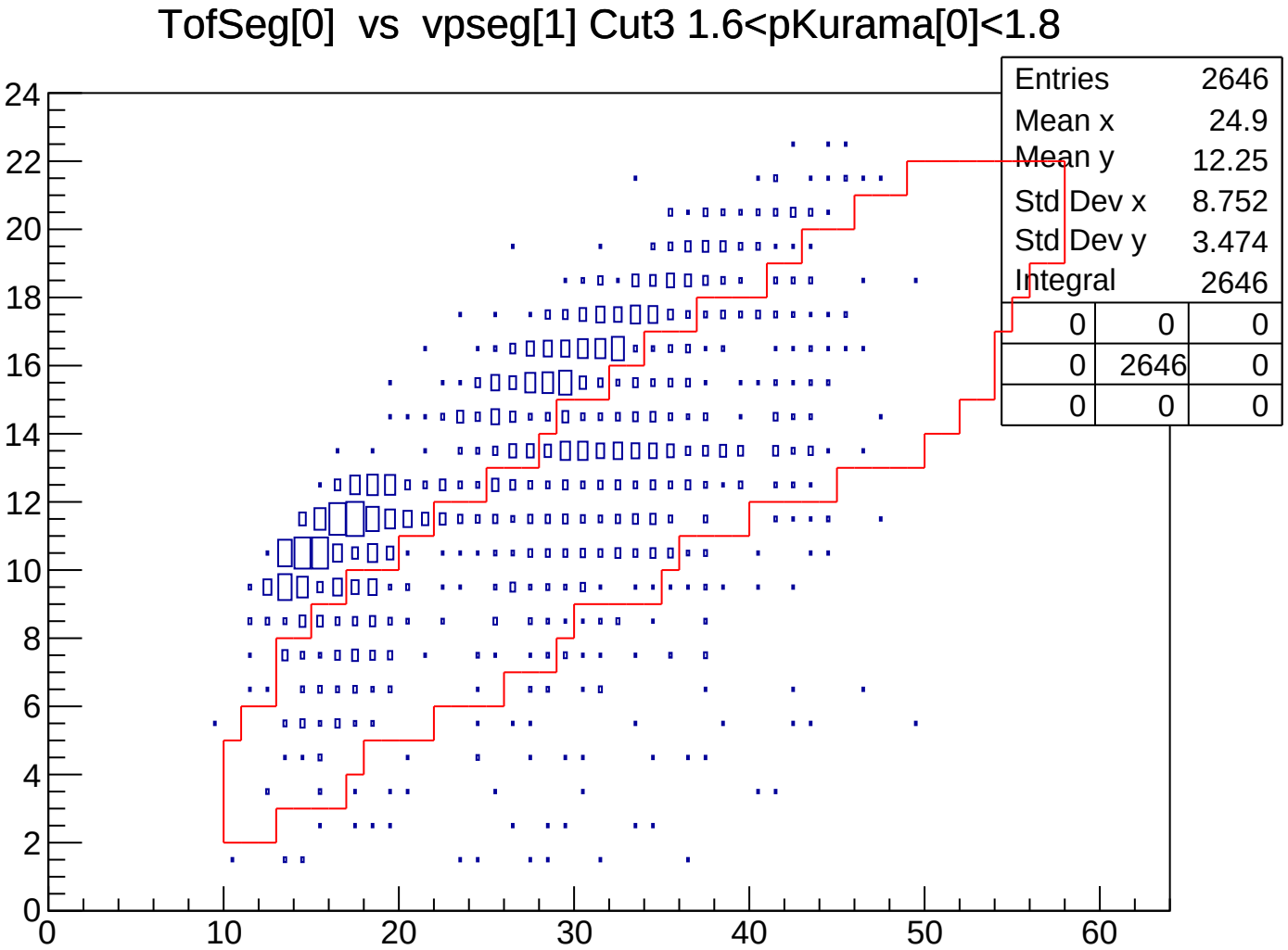

vpy[1] vs vpx[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x –9.603
Mean y –16.53
Std Dev x 104
Std Dev y 102
Integral 6721
0 0 0
0 6721 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

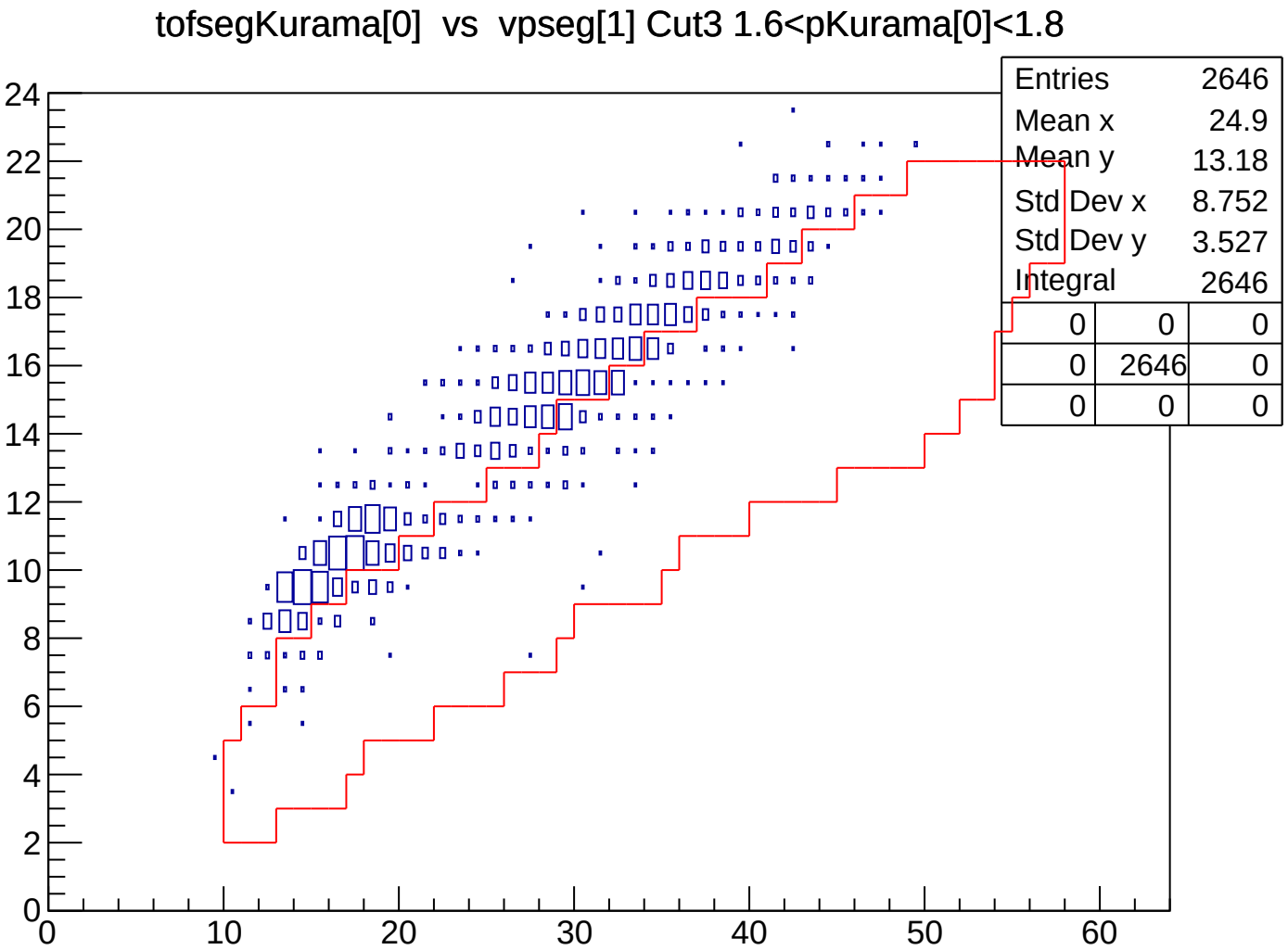

TofSeg[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x 29.88
Mean y 13.27
Std Dev x 9.905
Std Dev y 3.977
Integral 6721
0 0 0
0 6721 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

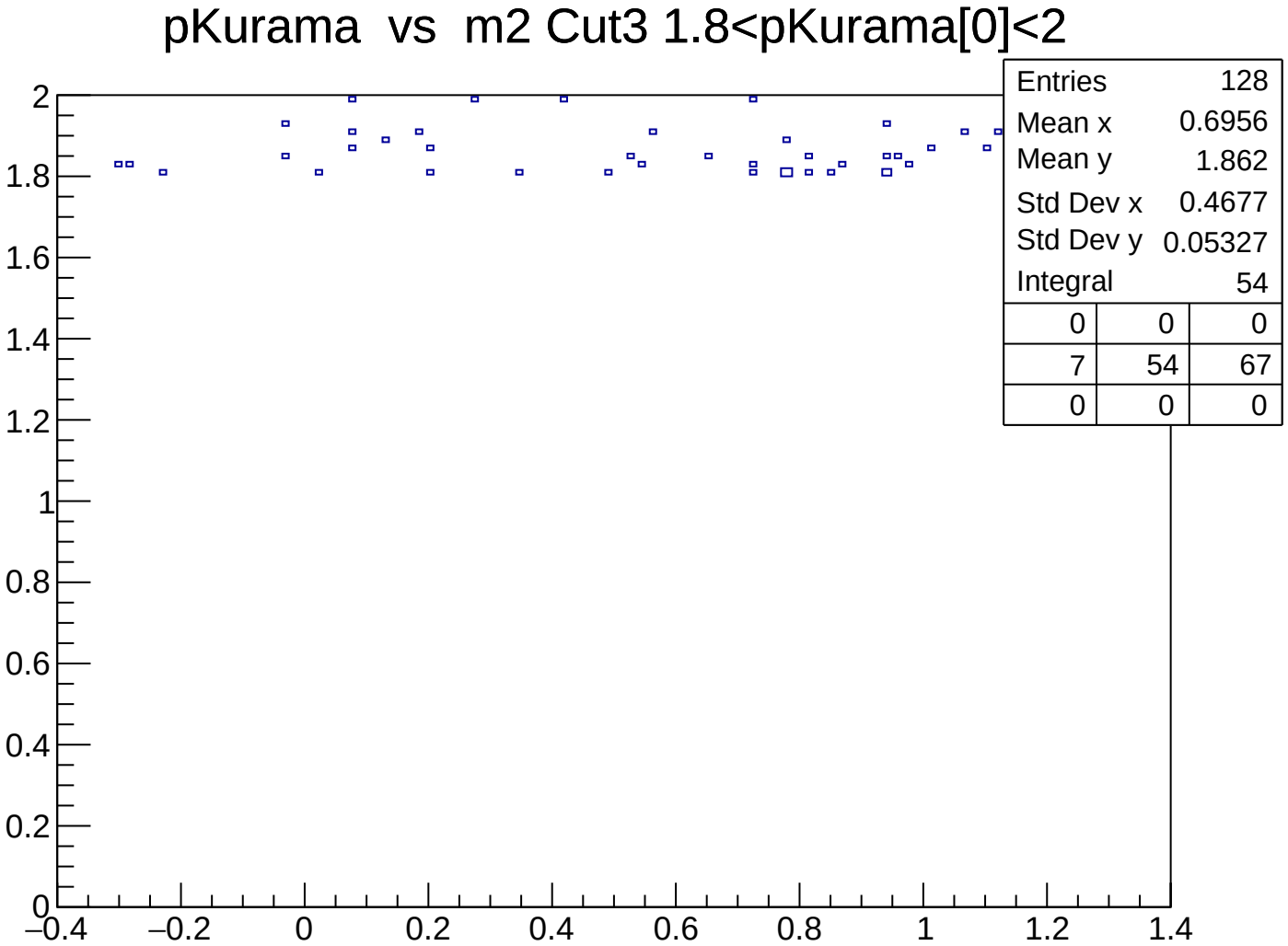

tofsegKurama[0] vs vpseg[1] Cut3 1.4<pKurama[0]<1.6
Entries 6721
Mean x 29.88
Mean y 14.99
Std Dev x 9.905
Std Dev y 4.215
Integral 6721
0 0 0
0 6721 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

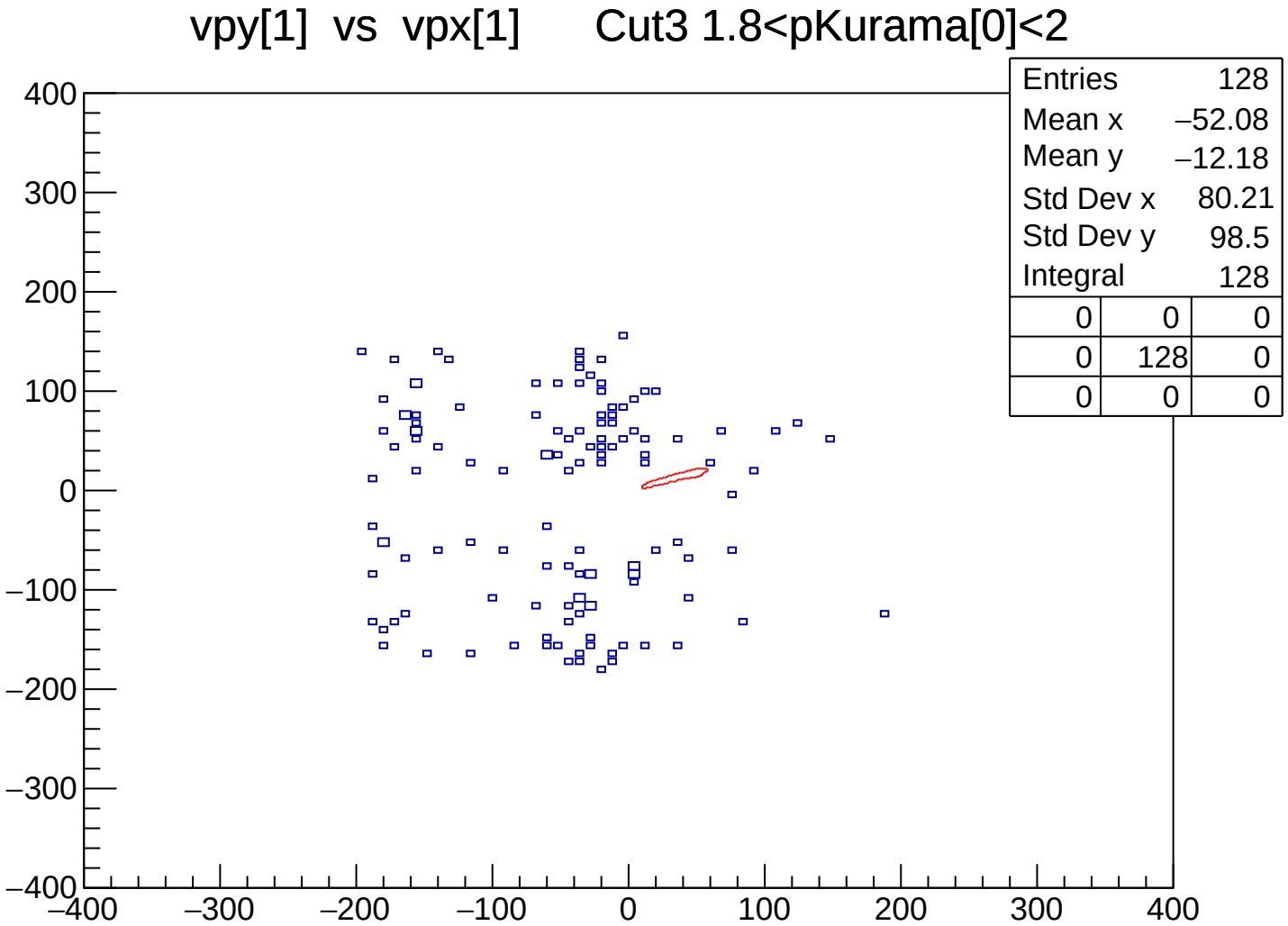

pKurama vs m2 Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 0.7845
Mean y 1.648
Std Dev x 0.3477
Std Dev y 0.03982
Integral 1808
0 0 0
198 1808 640
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

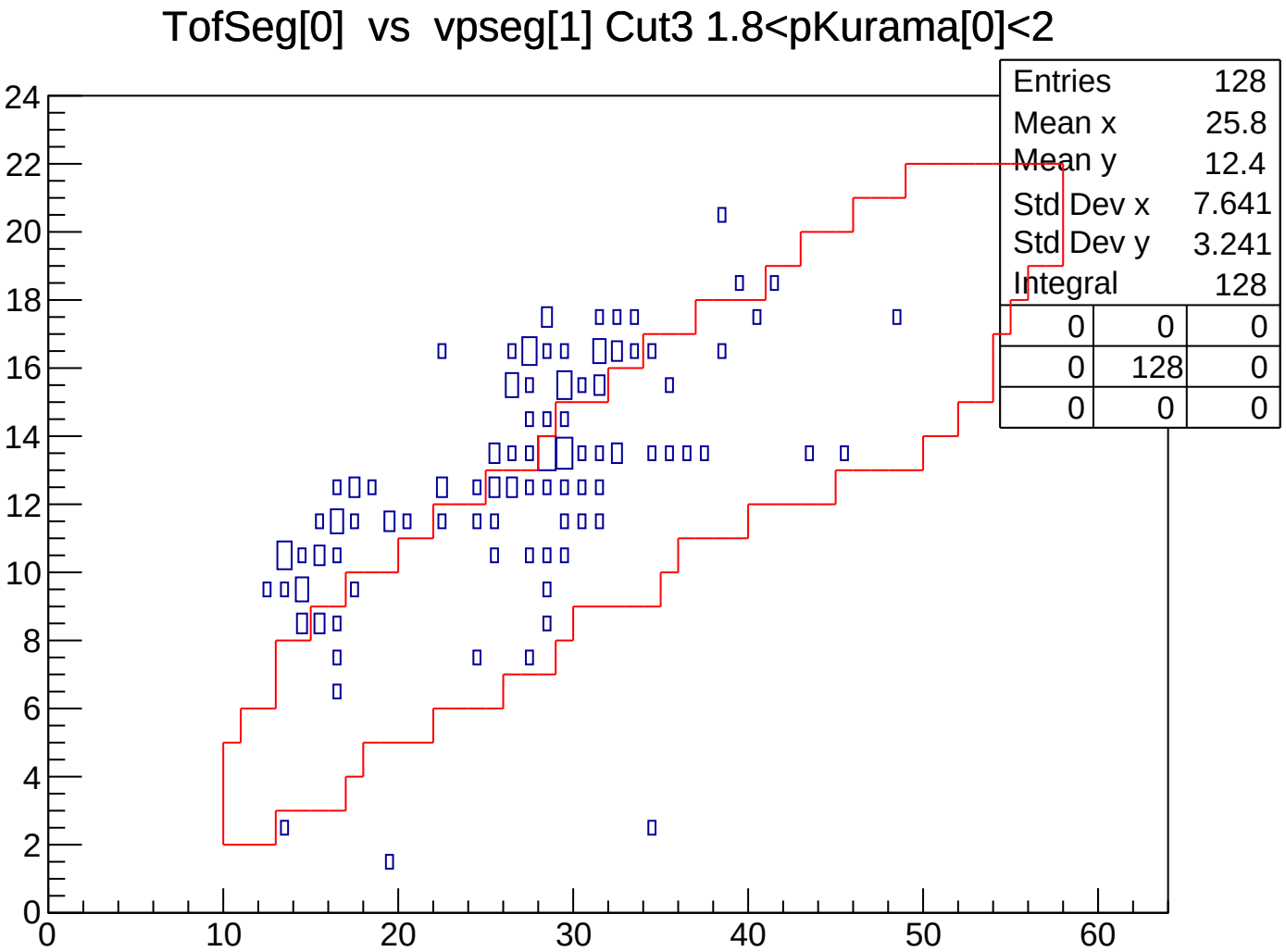

vpy[1] vs vpx[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x −61.95
Mean y −7.983
Std Dev x 91.76
Std Dev y 98.3
Integral 2646
0 0 0
0 2646 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

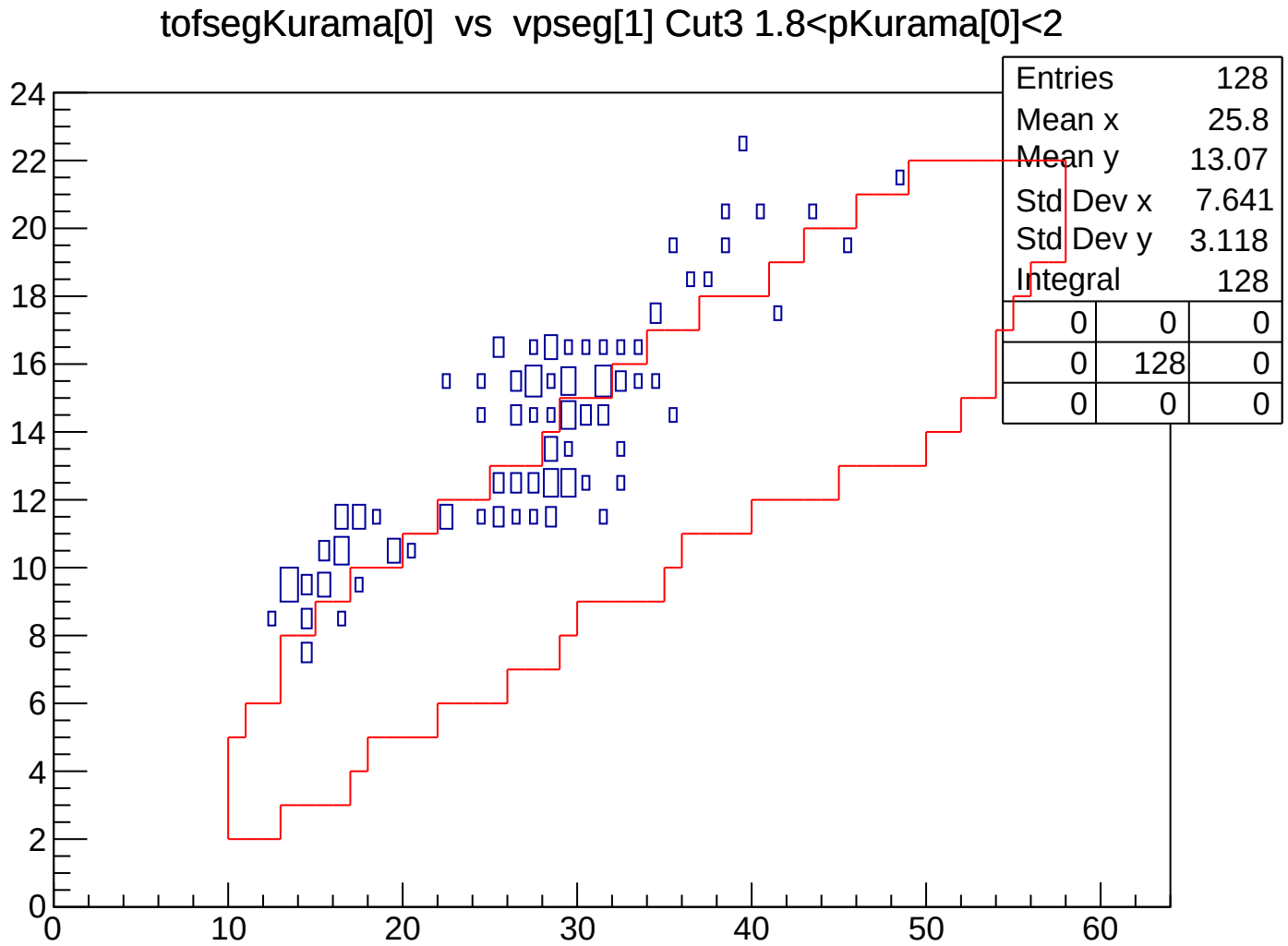

TofSeg[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 24.9
Mean y 12.25
Std Dev x 8.752
Std Dev y 3.474
Integral 2646
0 0 0
0 2646 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut3 1.6<pKurama[0]<1.8
Entries 2646
Mean x 24.9
Mean y 13.18
Std Dev x 8.752
Std Dev y 3.527
Integral 2646
0 0 0
0 2646 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

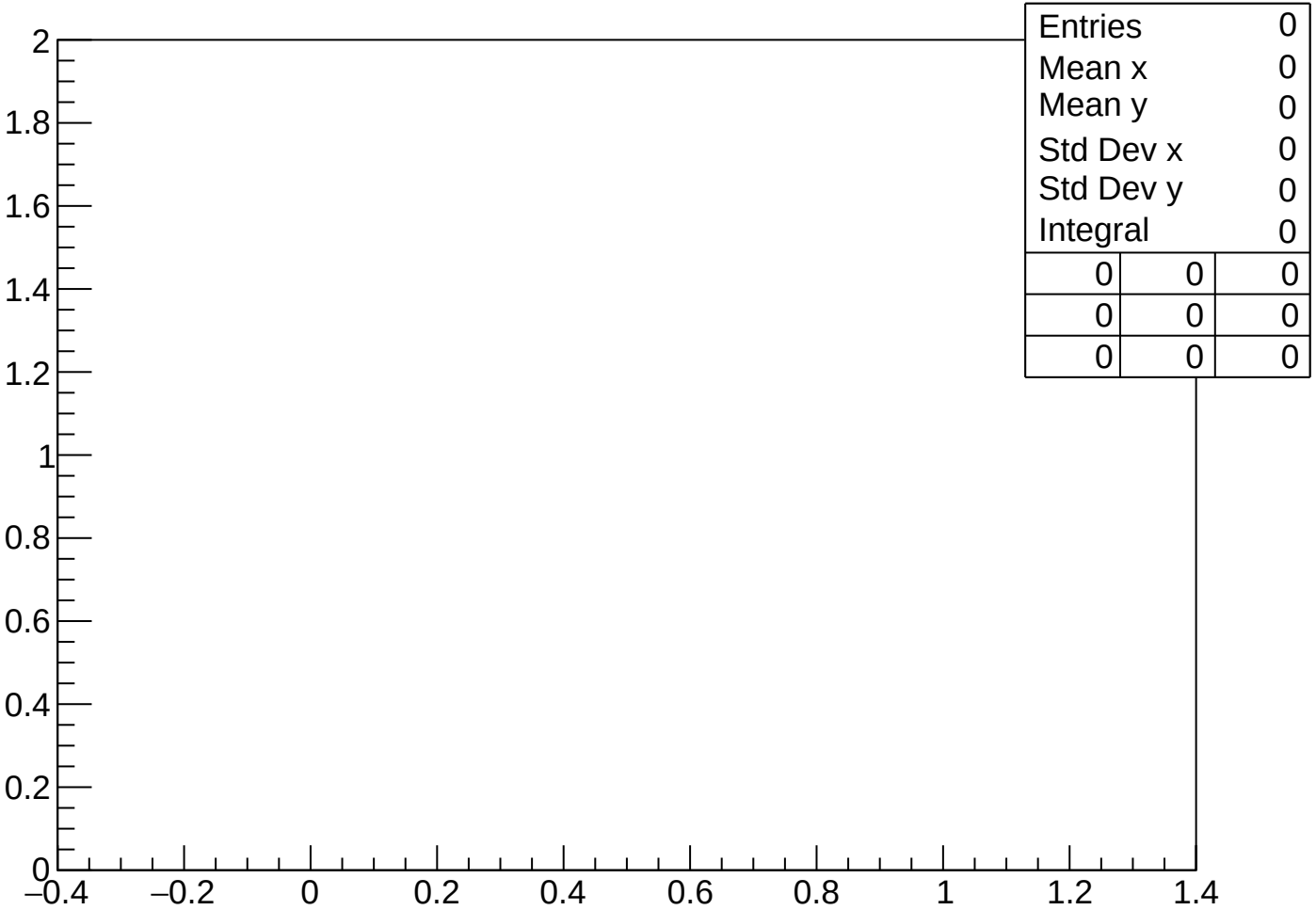

pKurama vs m2 Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 0.6956
Mean y 1.862
Std Dev x 0.4677
Std Dev y 0.05327
Integral 54
0 0 0
7 54 67
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

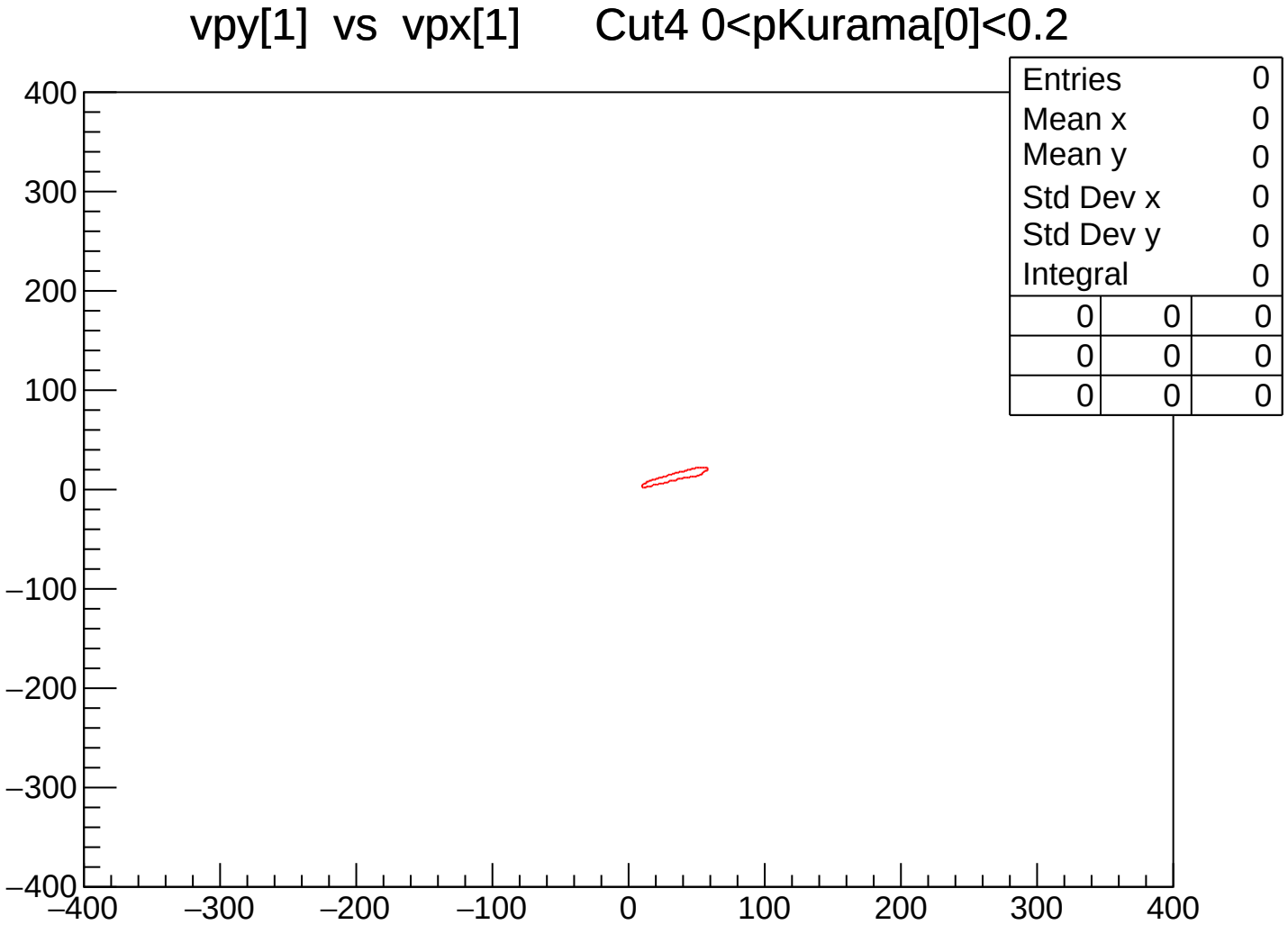

vpy[1] vs vpx[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x –52.08
Mean y –12.18
Std Dev x 80.21
Std Dev y 98.5
Integral 128
0 0 0
0 128 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

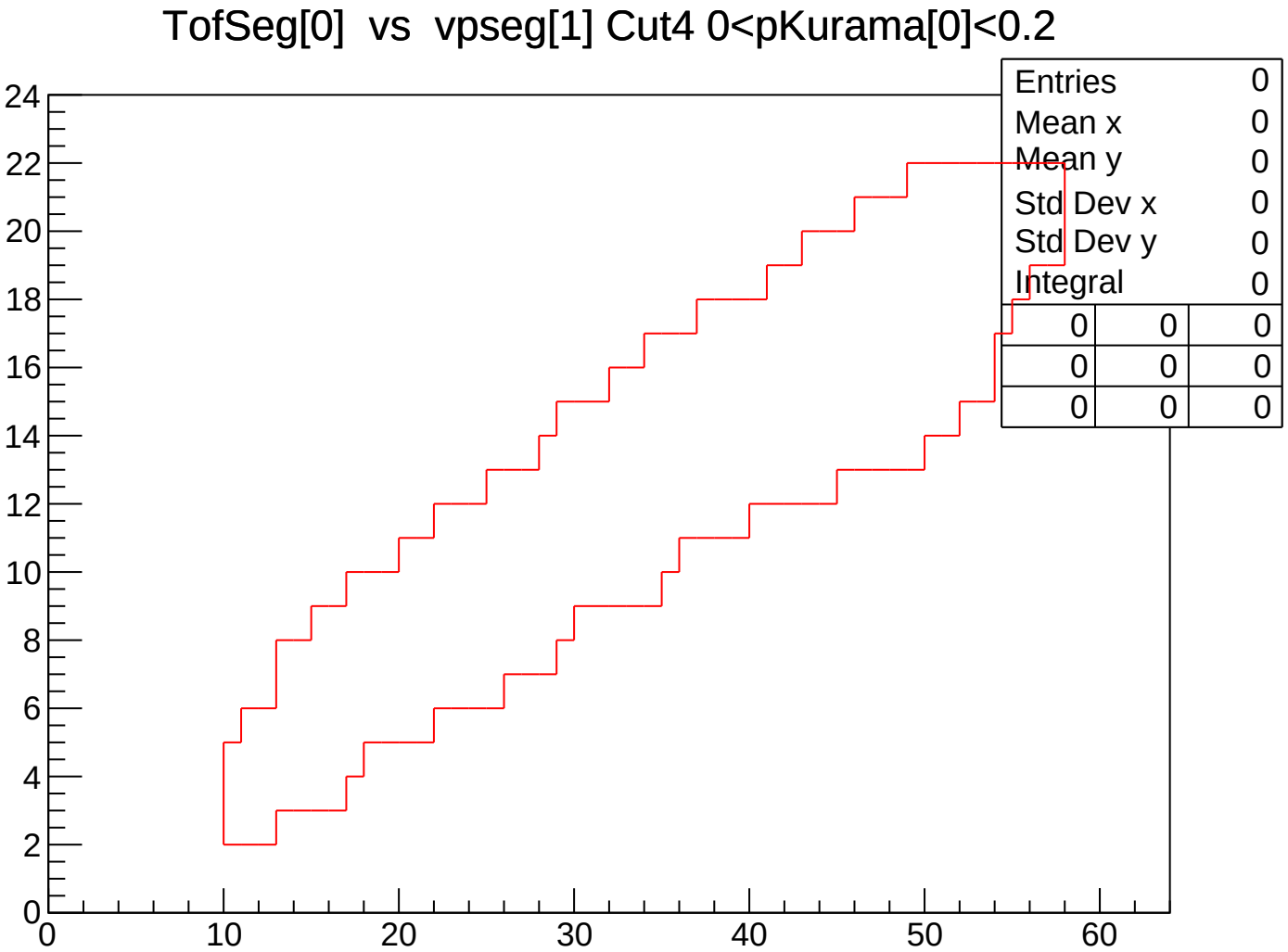

TofSeg[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 25.8
Mean y 12.4
Std Dev x 7.641
Std Dev y 3.241
Integral 128
0 0 0
0 128 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

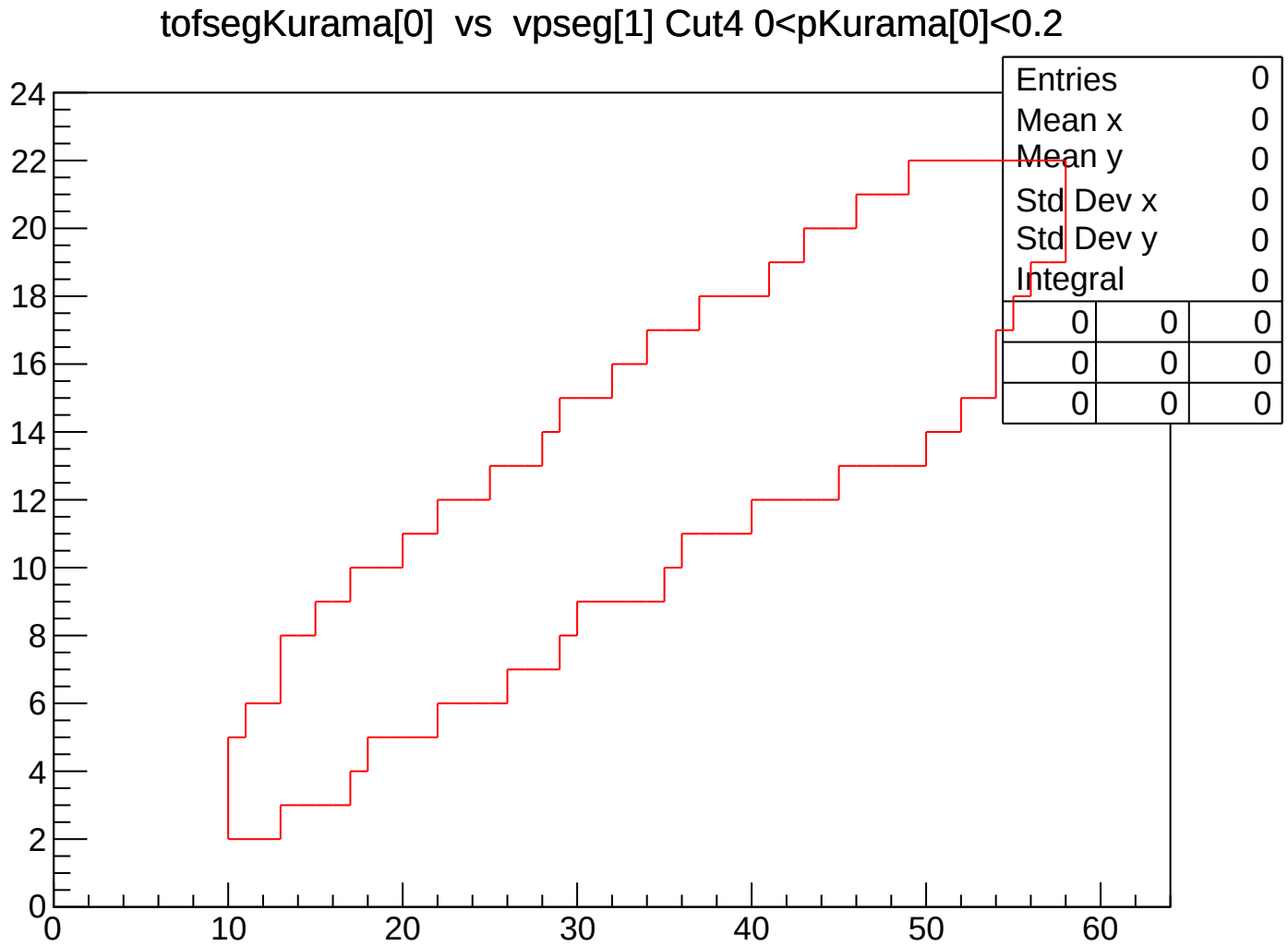

tofsegKurama[0] vs vpseg[1] Cut3 1.8<pKurama[0]<2
Entries 128
Mean x 25.8
Mean y 13.07
Std Dev x 7.641
Std Dev y 3.118
Integral 128
0 0 0
0 128 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

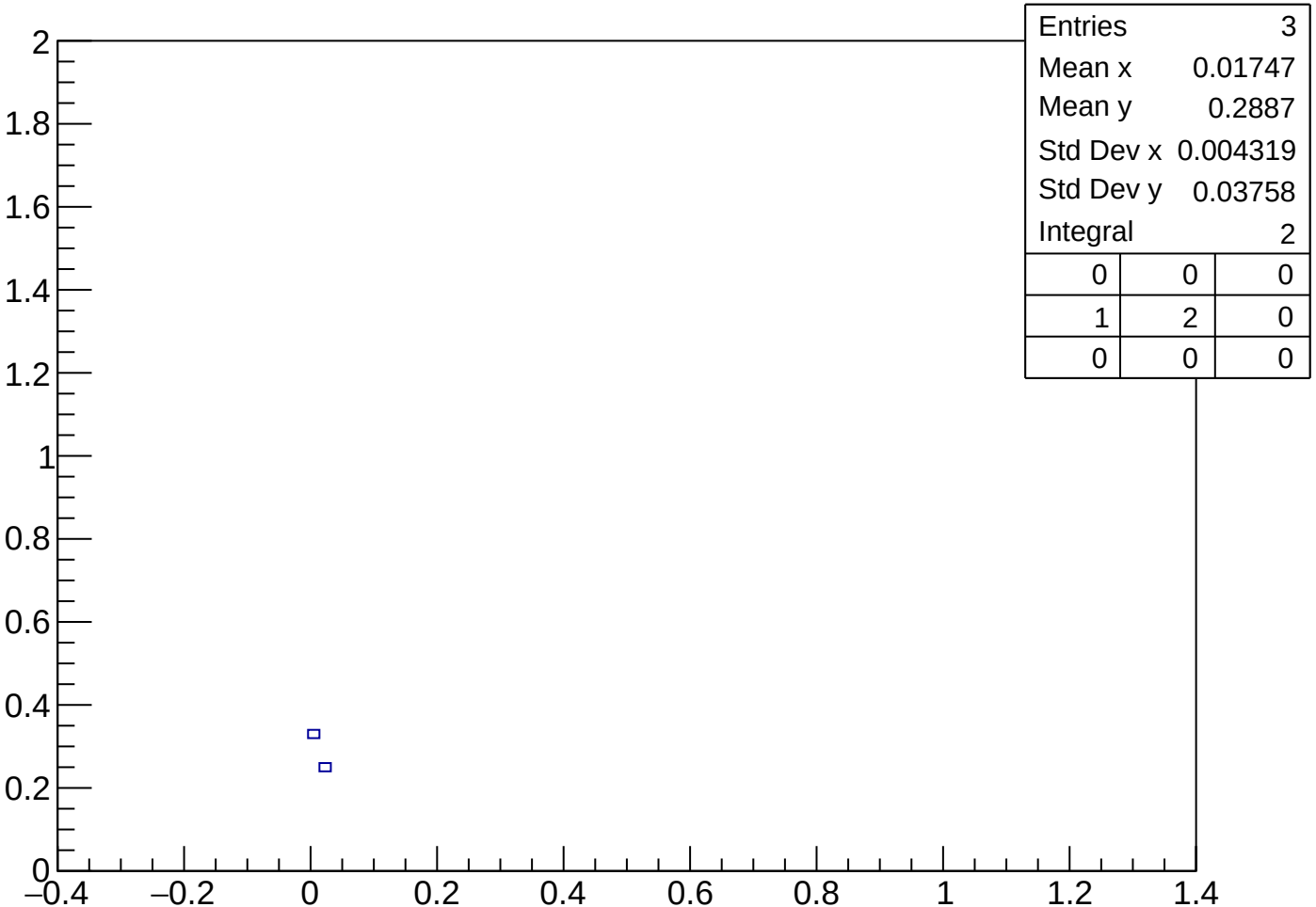


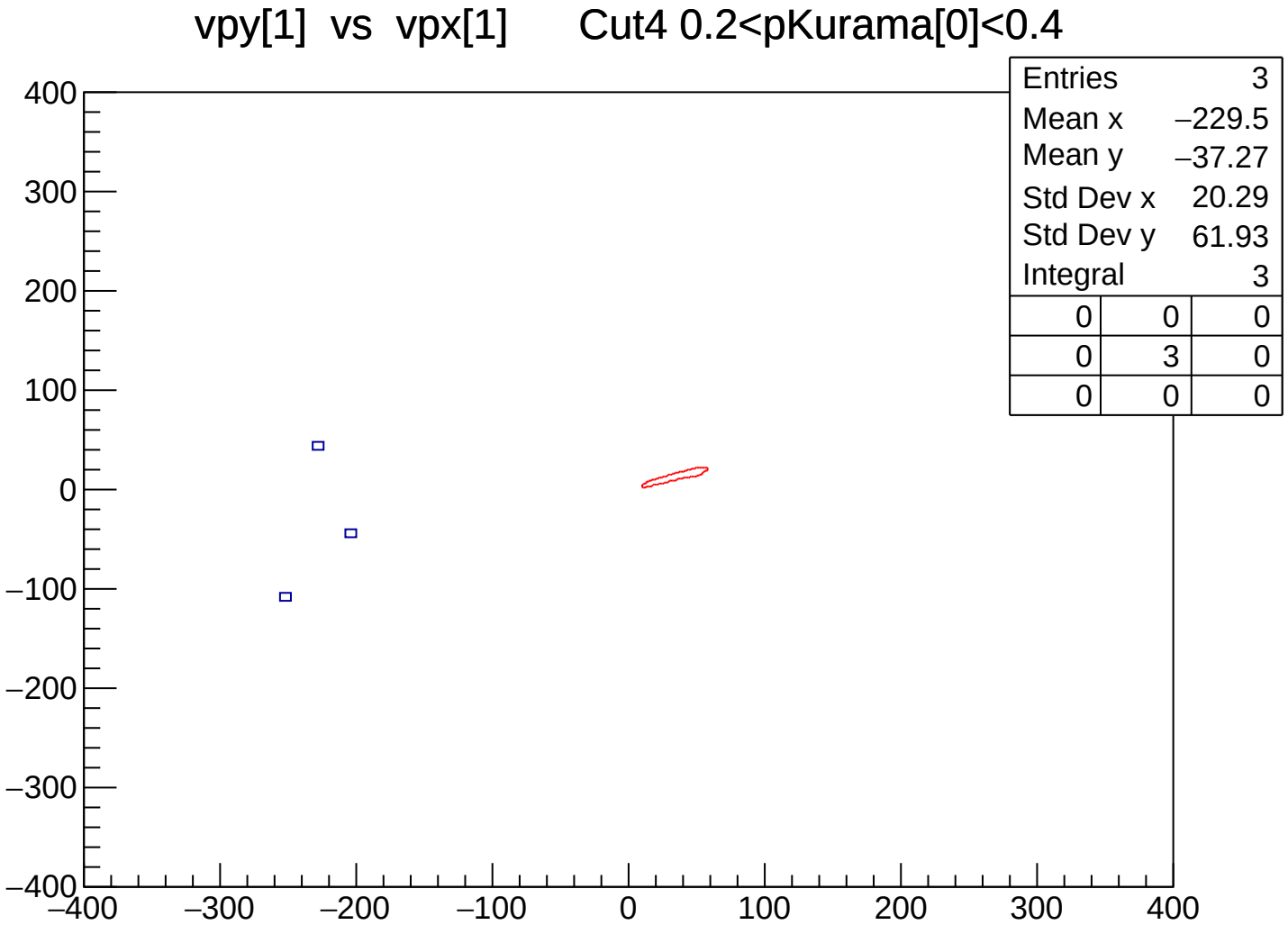

vpy[1] vs vpx[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

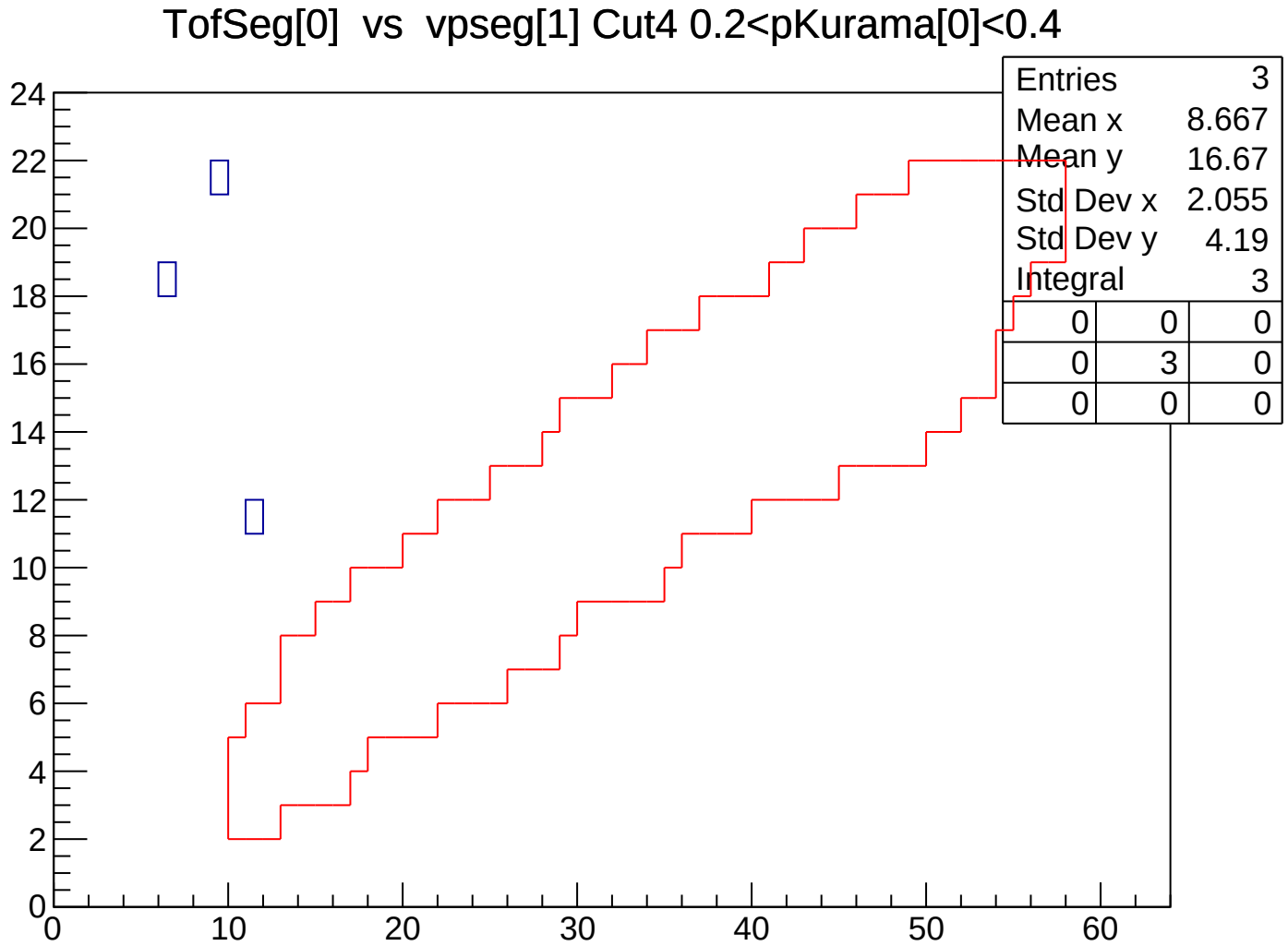

TofSeg[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

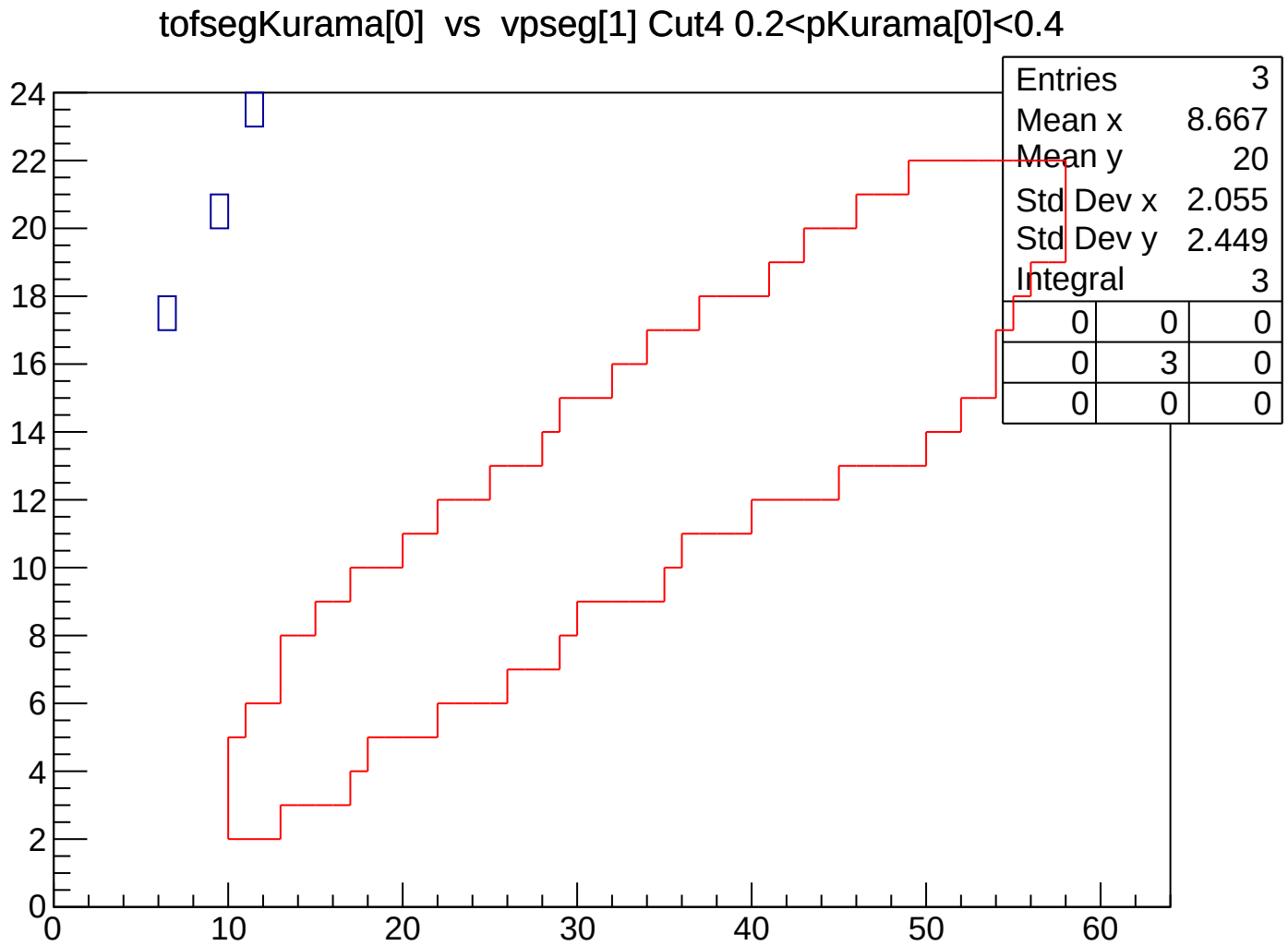

tofsegKurama[0] vs vpseg[1] Cut4 0<pKurama[0]<0.2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

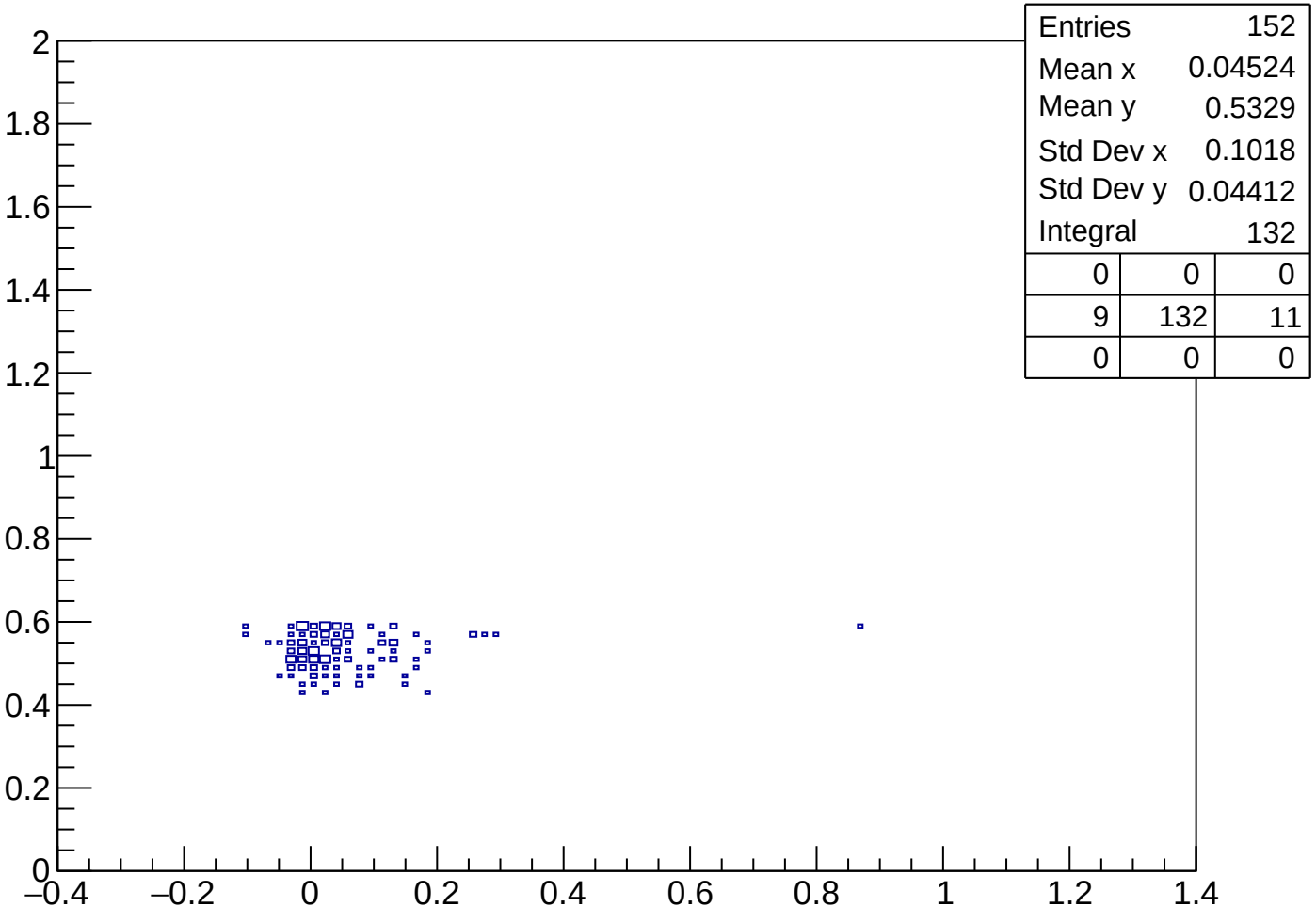


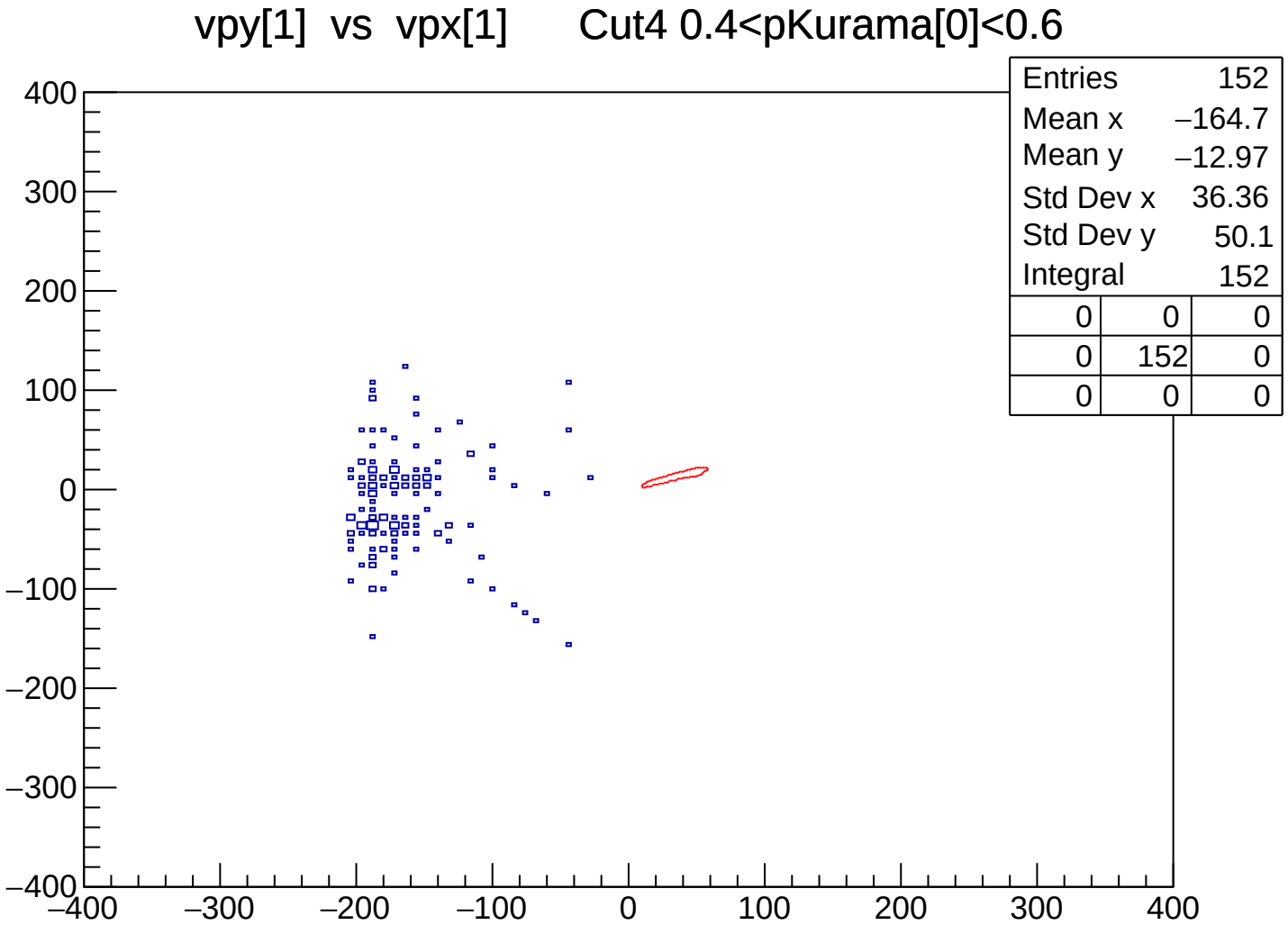

vpy[1] vs vpx[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x –229.5
Mean y –37.27
Std Dev x 20.29
Std Dev y 61.93
Integral 3
0 0 0
0 3 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

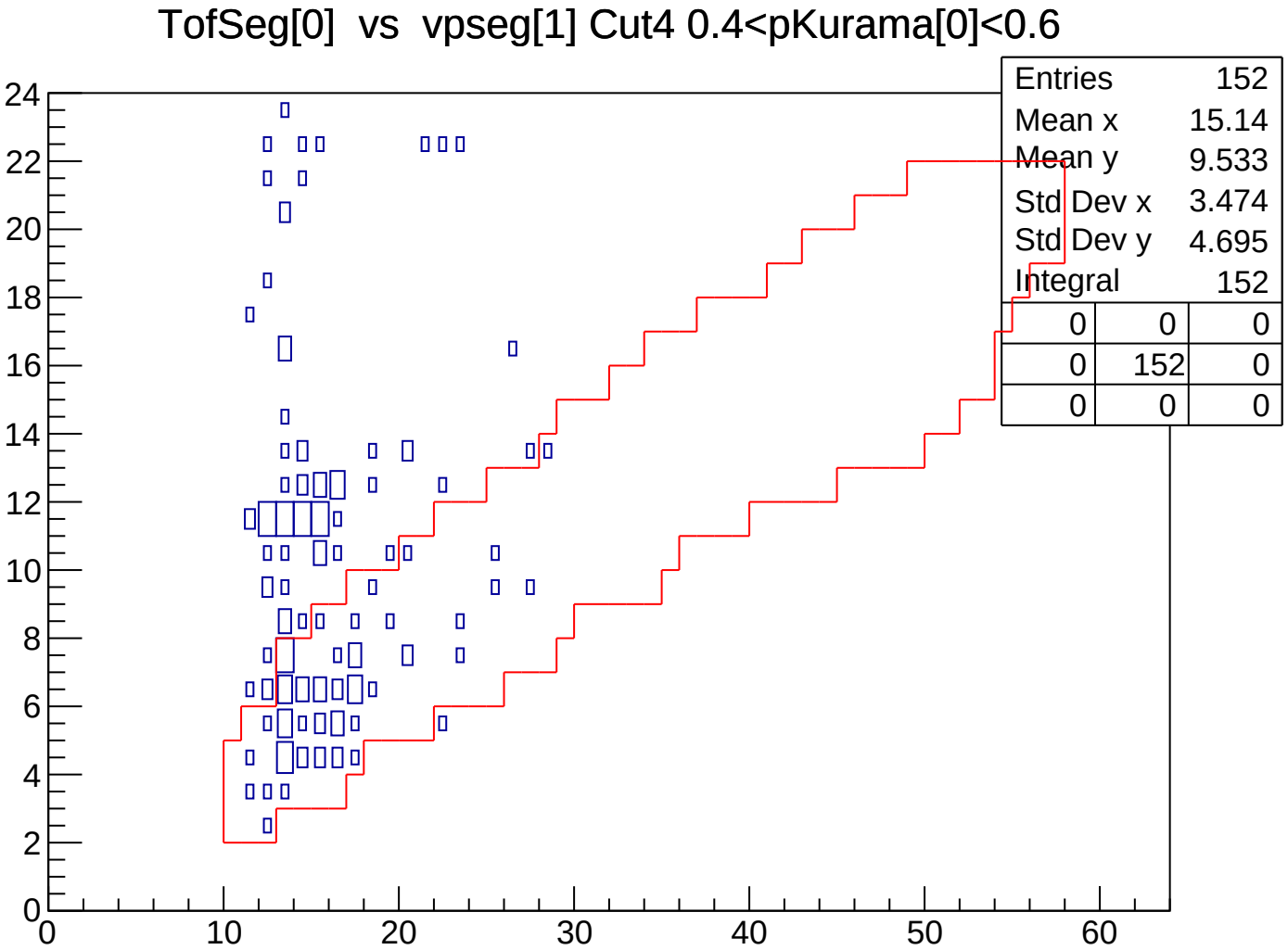

TofSeg[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x 8.667
Mean y 16.67
Std Dev x 2.055
Std Dev y 4.19
Integral 3
0 0 0
0 3 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

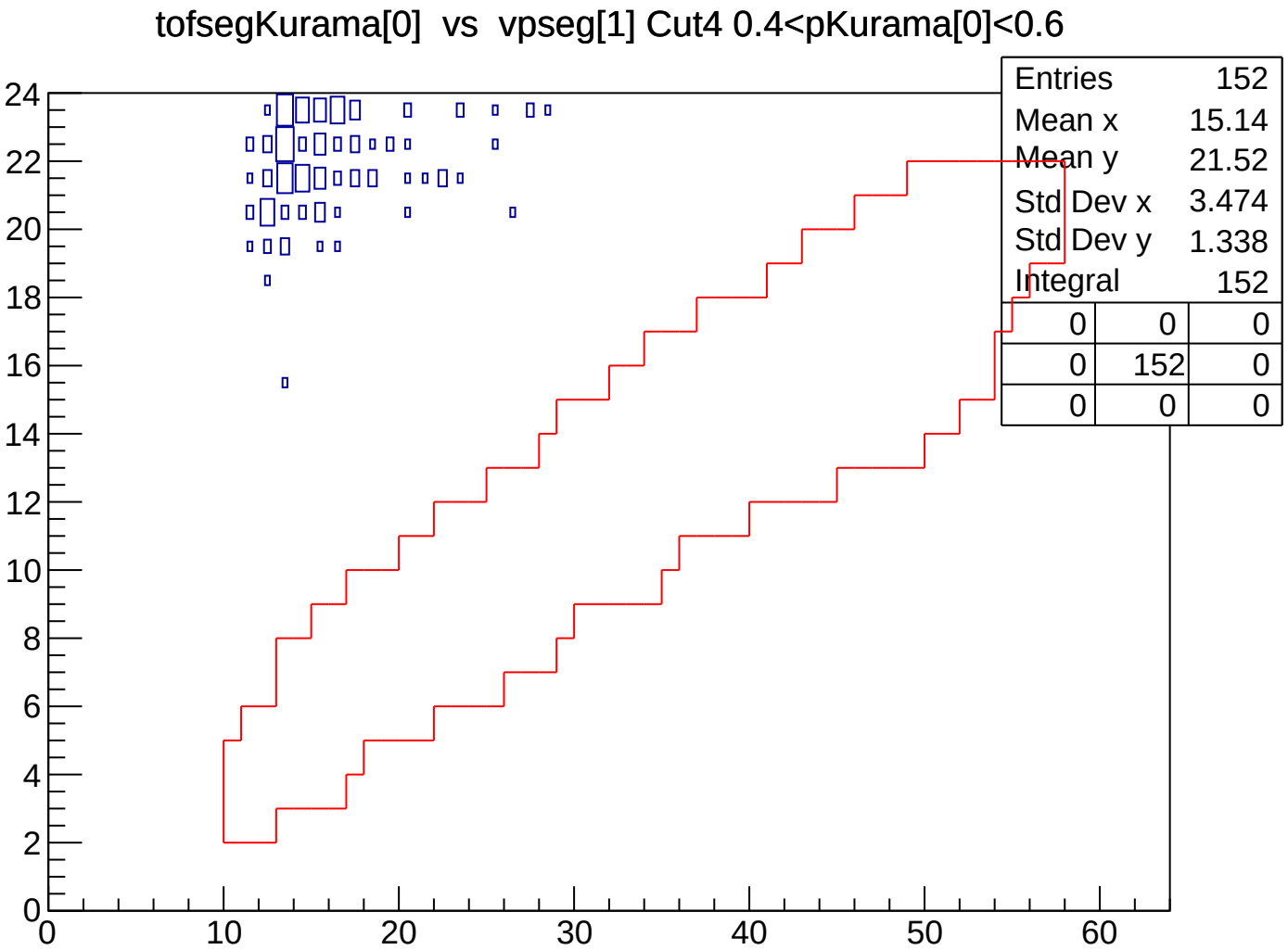

tofsegKurama[0] vs vpseg[1] Cut4 0.2<pKurama[0]<0.4
Entries 3
Mean x 8.667
Mean y 20
Std Dev x 2.055
Std Dev y 2.449
Integral 3
0 0 0
0 3 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

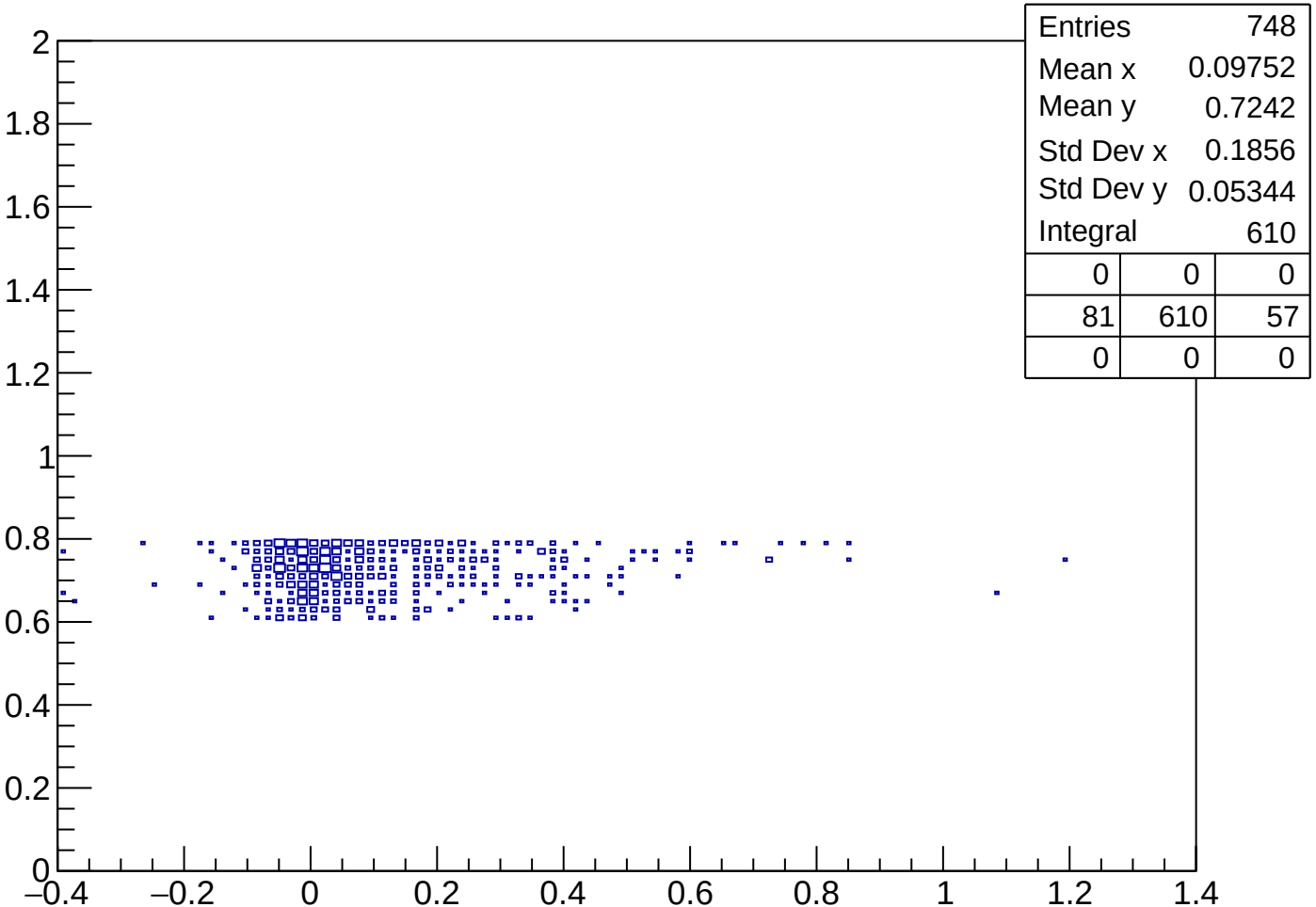


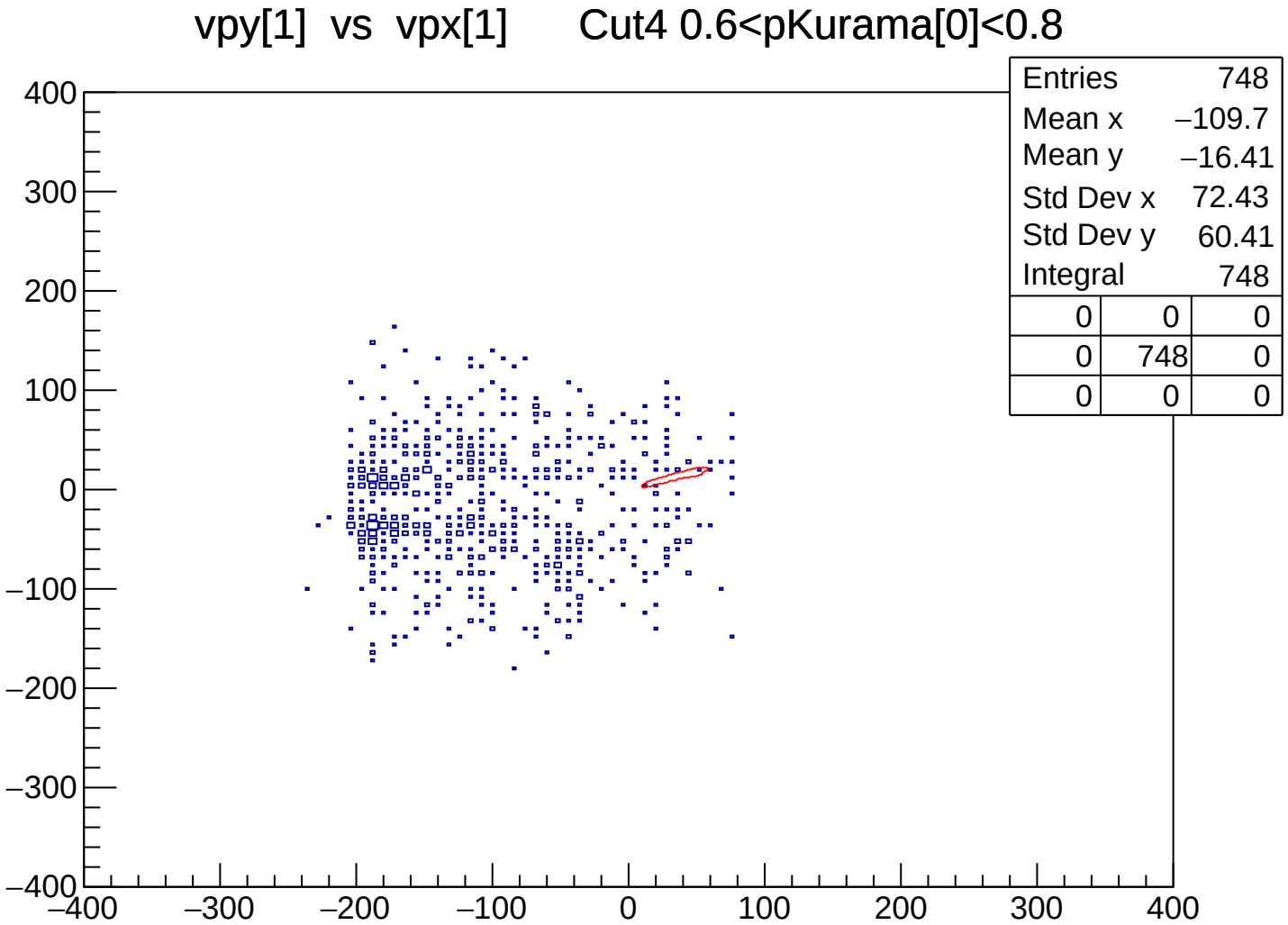

vpy[1] vs vpx[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x –164.7
Mean y –12.97
Std Dev x 36.36
Std Dev y 50.1
Integral 152
0 0 0
0 152 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

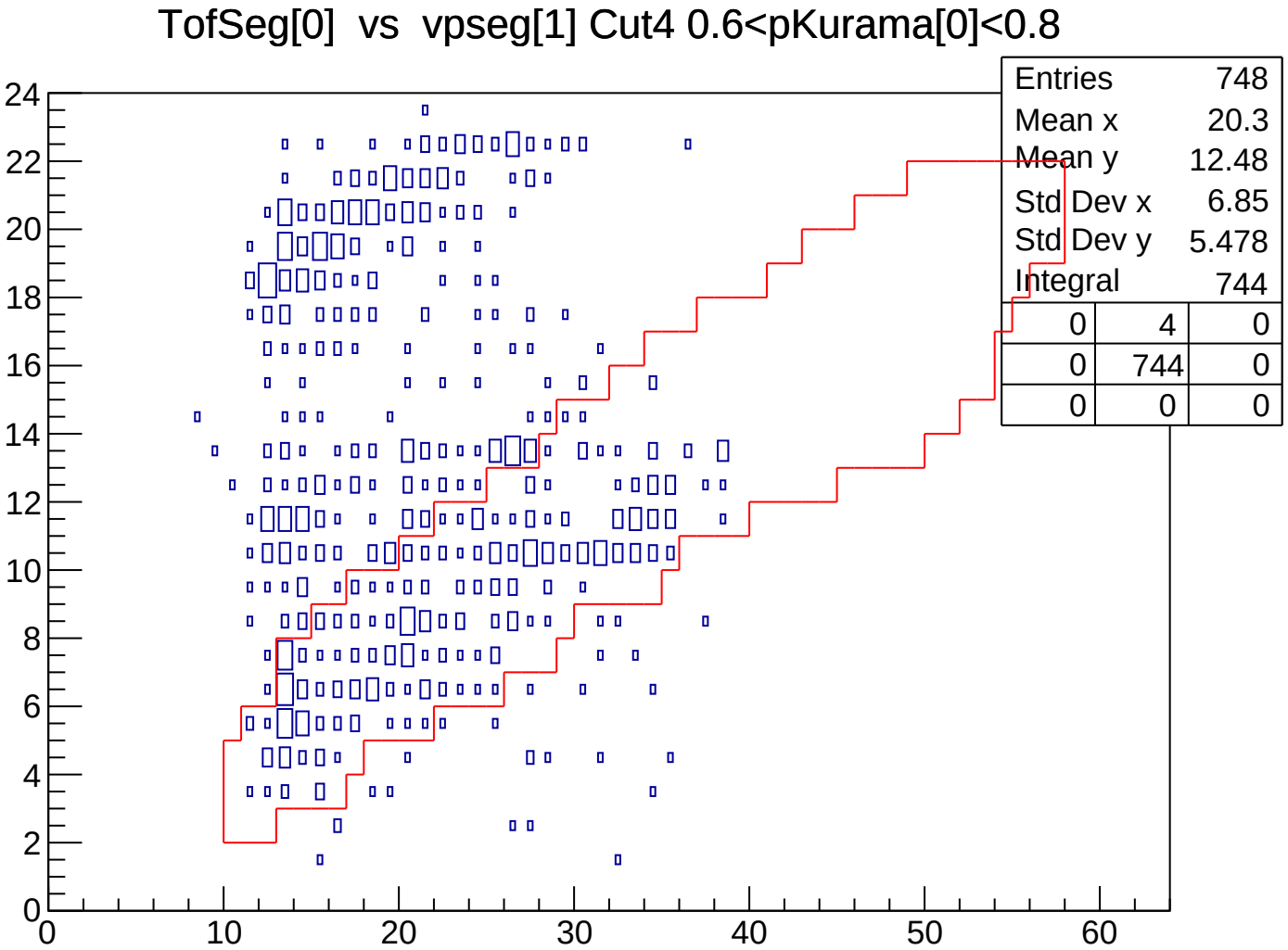

TofSeg[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x 15.14
Mean y 9.533
Std Dev x 3.474
Std Dev y 4.695
Integral 152
0 0 0
0 152 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

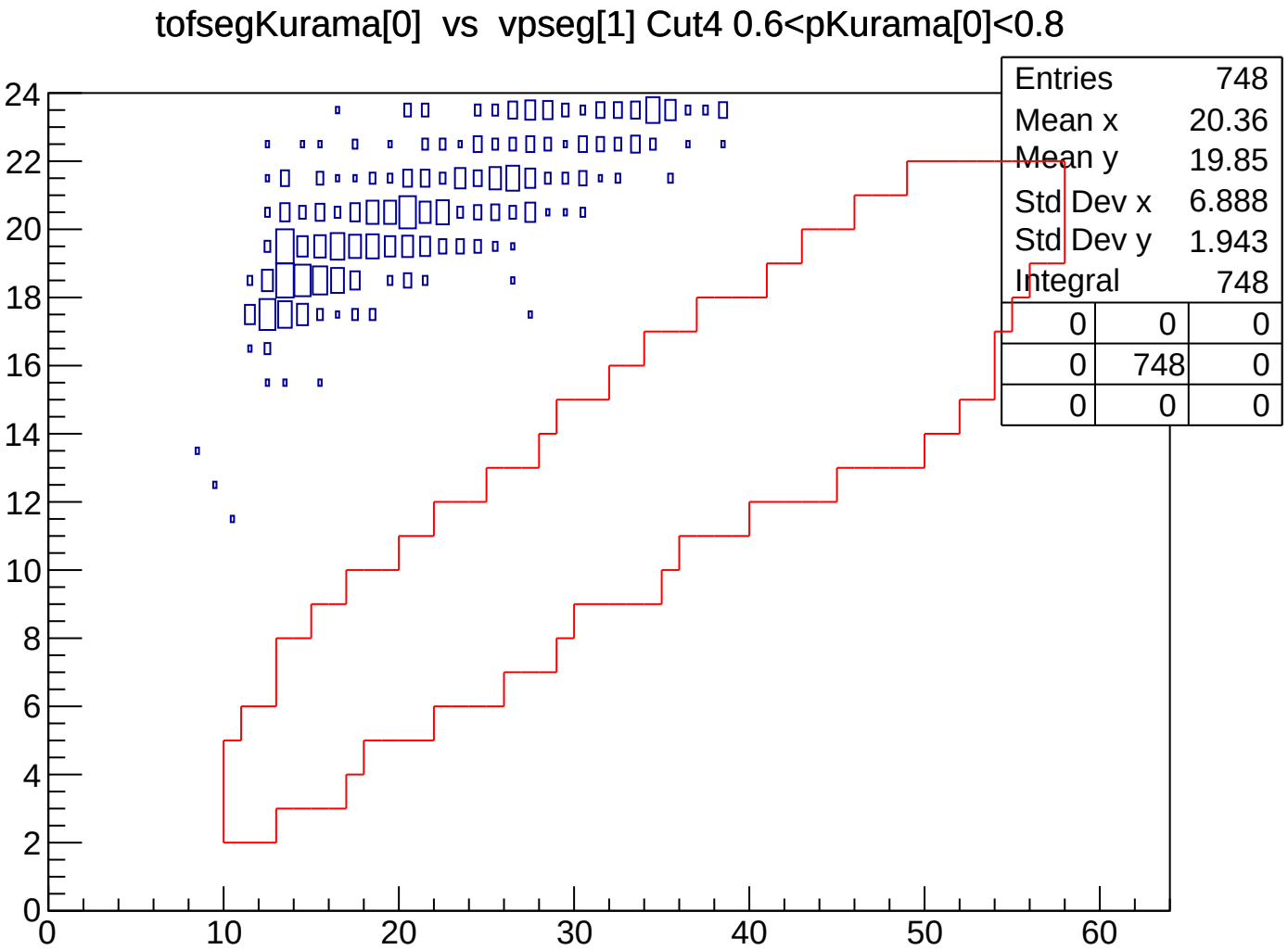

tofsegKurama[0] vs vpseg[1] Cut4 0.4<pKurama[0]<0.6
Entries 152
Mean x 15.14
Mean y 21.52
Std Dev x 3.474
Std Dev y 1.338
Integral 152
0 0 0
0 152 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

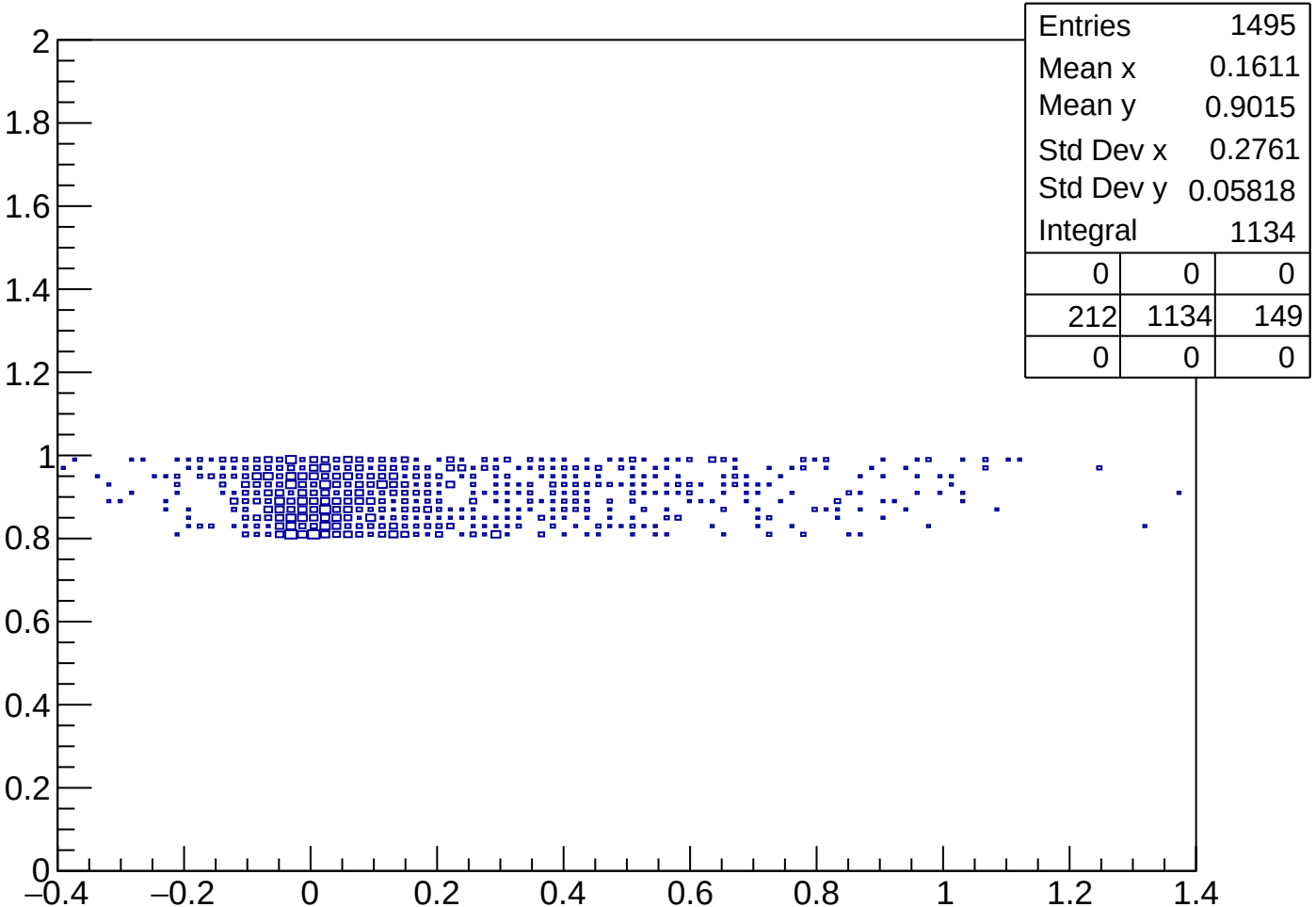


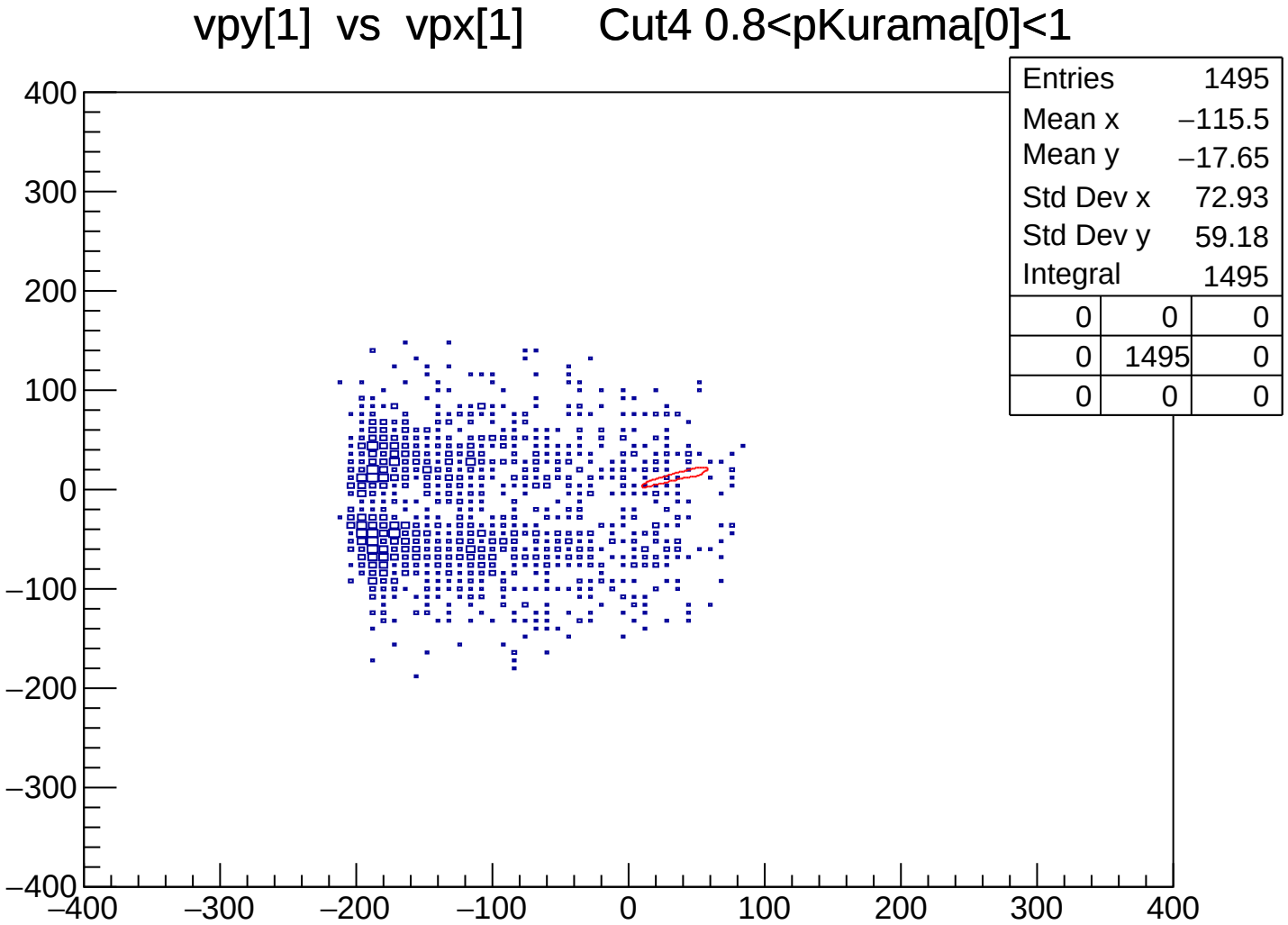

vpy[1] vs vpx[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x –109.7
Mean y –16.41
Std Dev x 72.43
Std Dev y 60.41
Integral 748
0 0 0
0 748 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

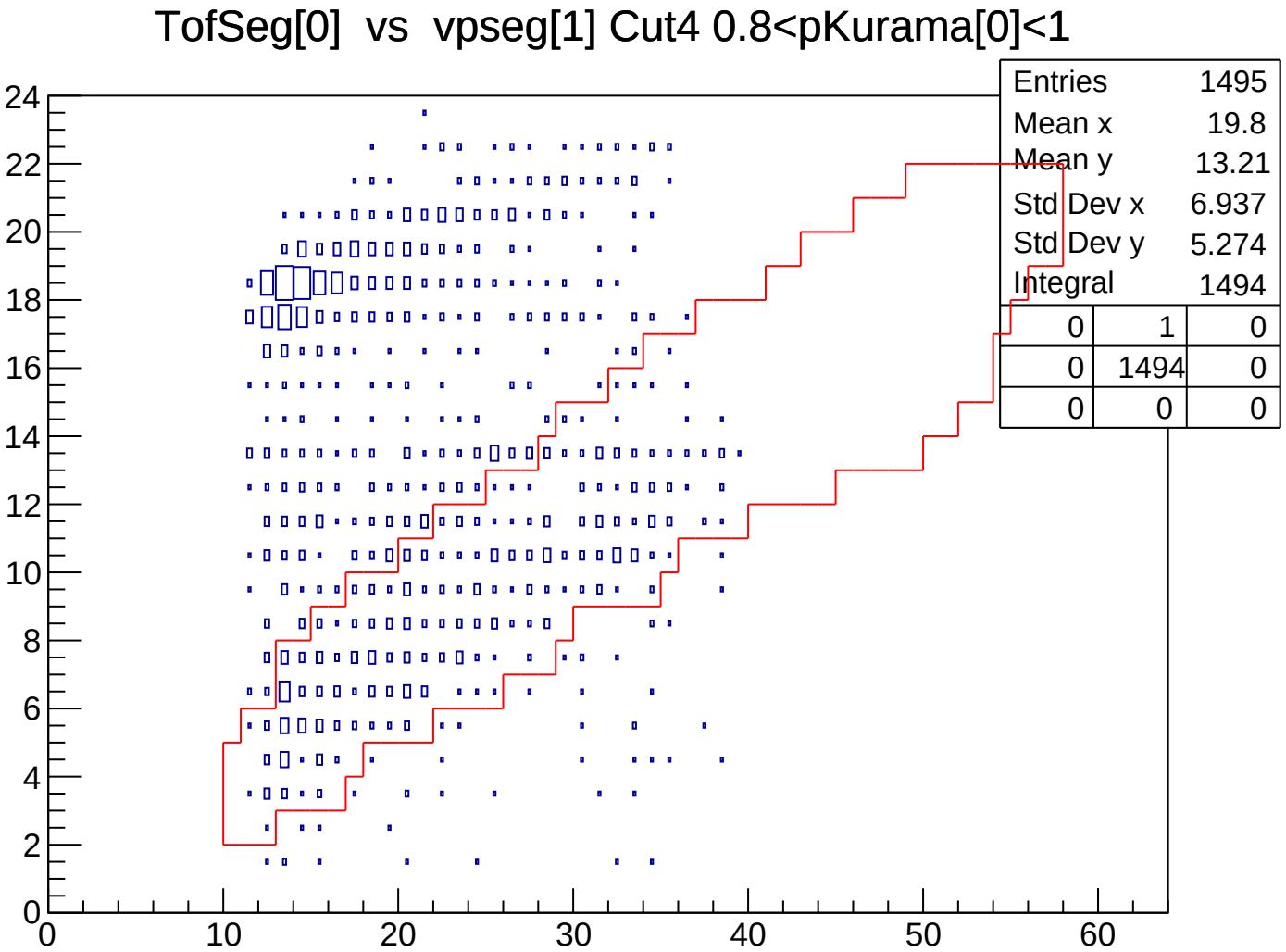

TofSeg[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x 20.3
Mean y 12.48
Std Dev x 6.85
Std Dev y 5.478
Integral 744
0 4 0
0 744 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

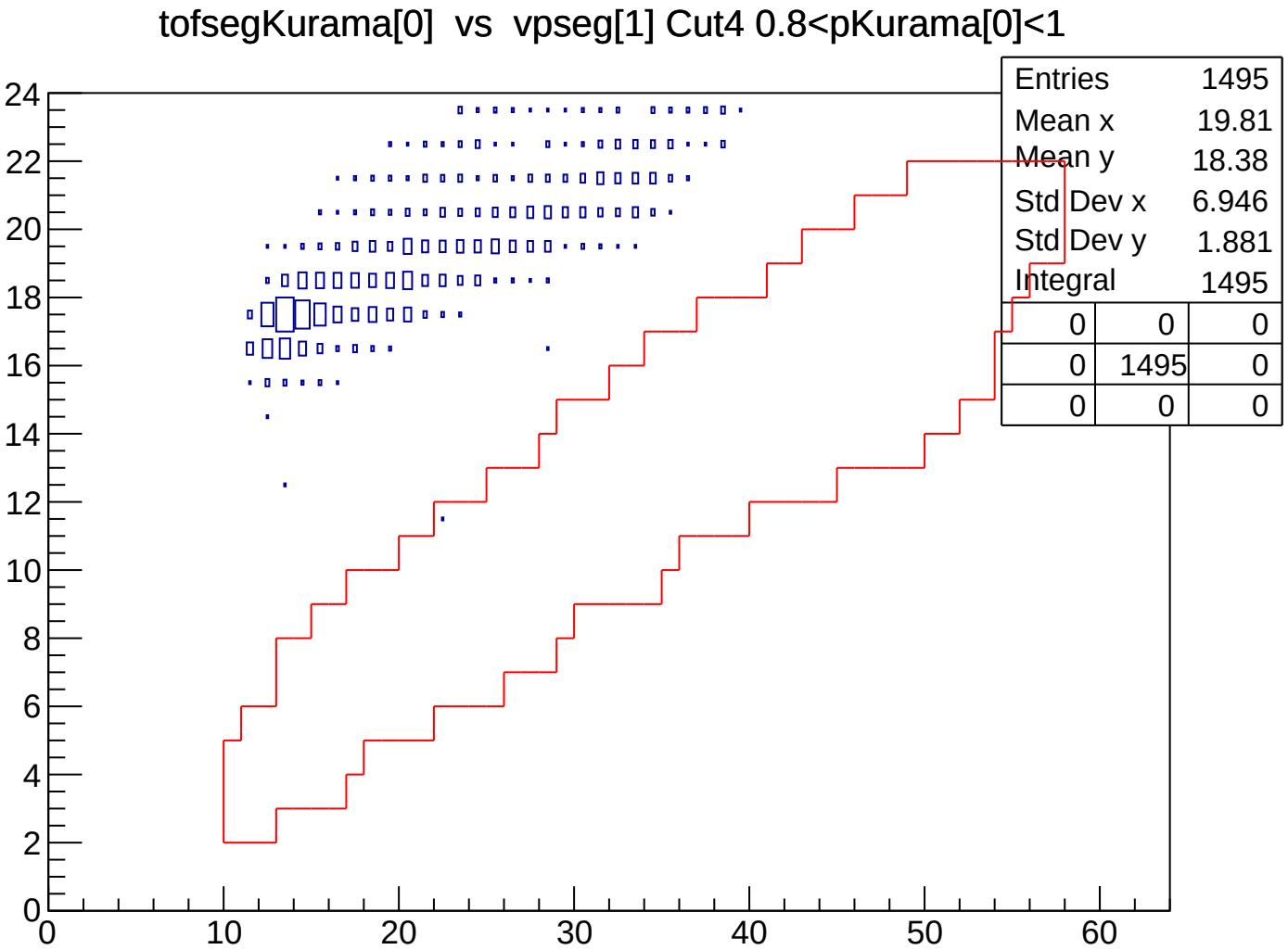

tofsegKurama[0] vs vpseg[1] Cut4 0.6<pKurama[0]<0.8
Entries 748
Mean x 20.36
Mean y 19.85
Std Dev x 6.888
Std Dev y 1.943
Integral 748
0 0 0
0 748 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

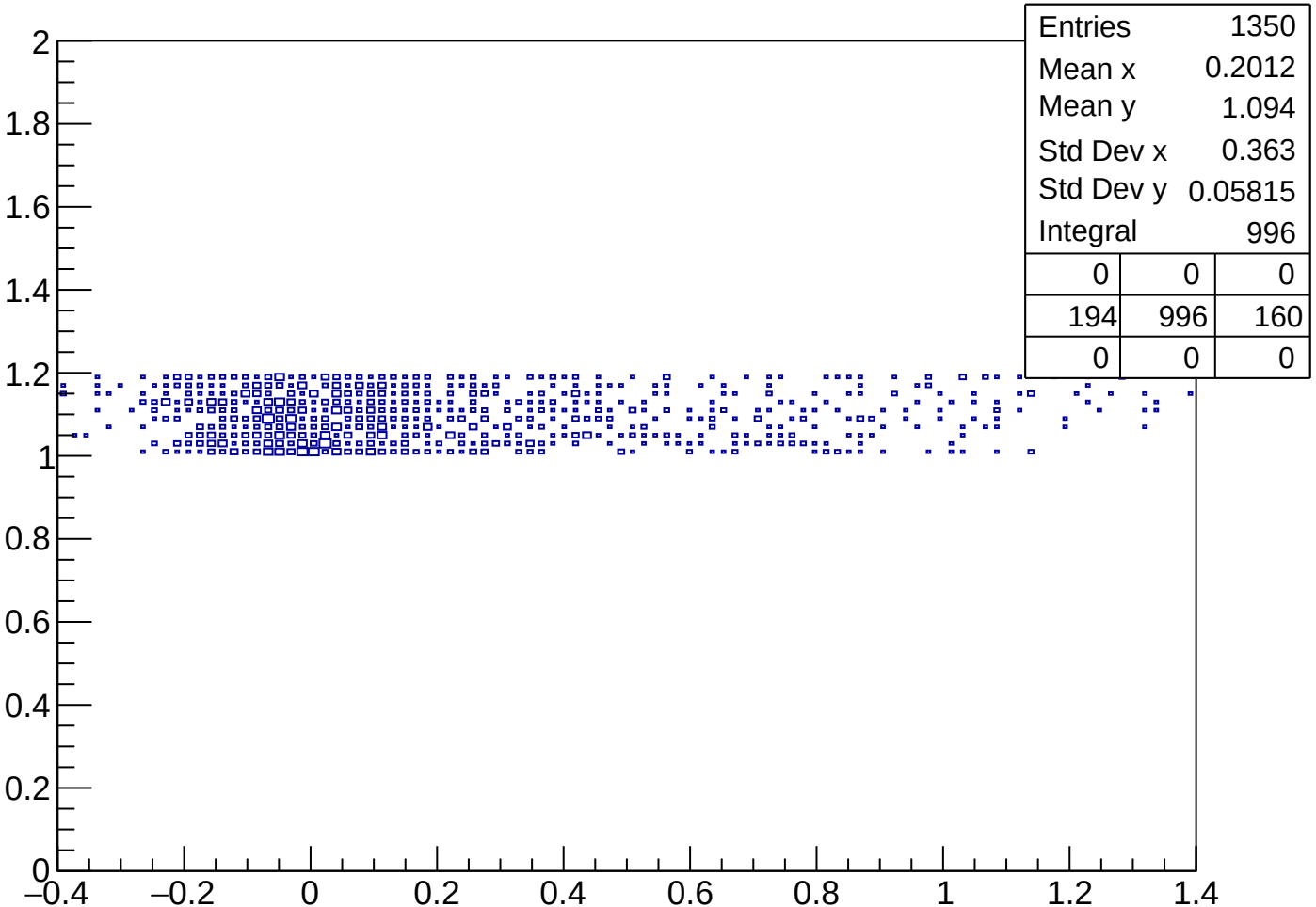


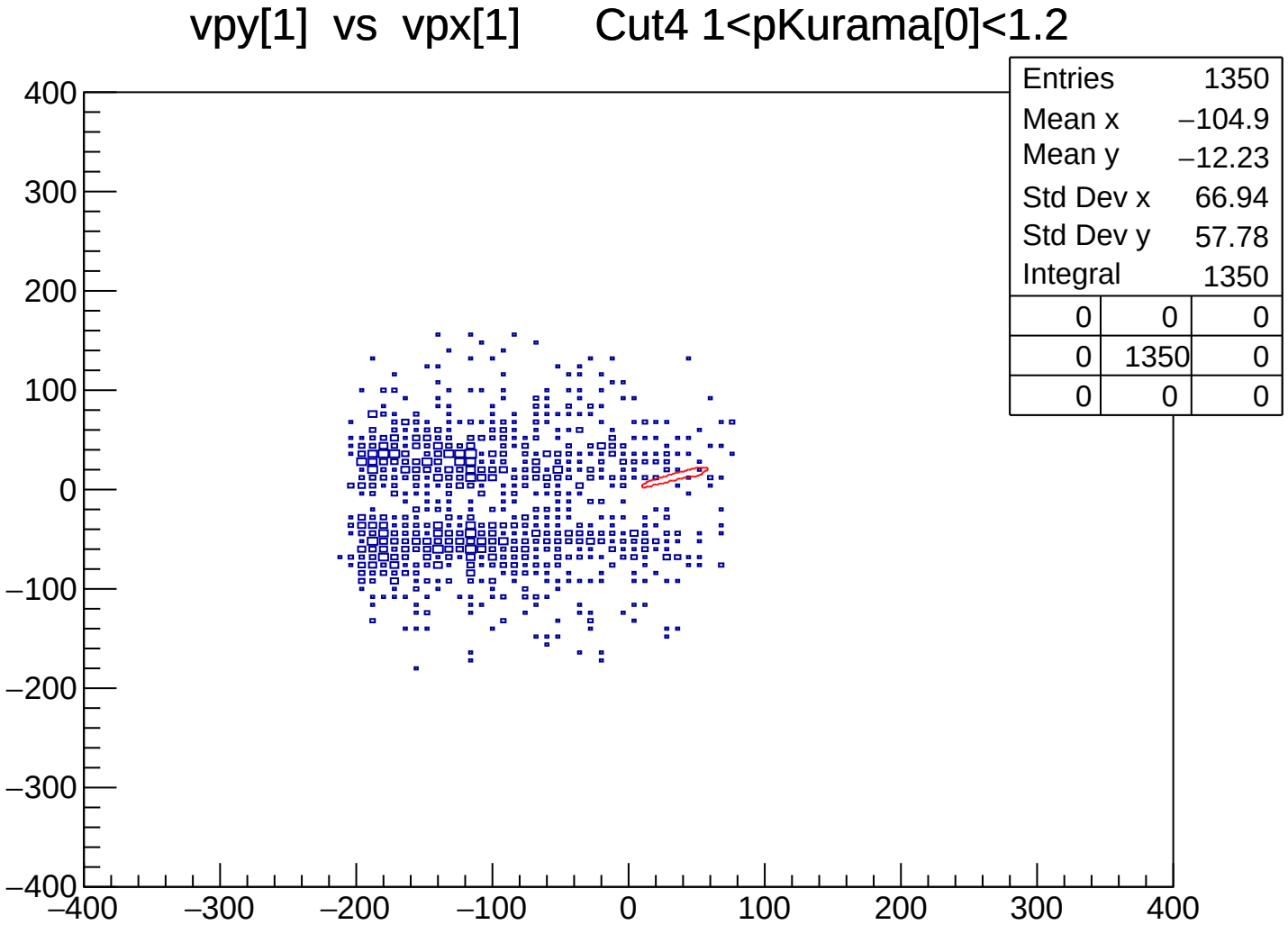

vpy[1] vs vpx[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x −115.5
Mean y −17.65
Std Dev x 72.93
Std Dev y 59.18
Integral 1495
0 0 0
0 1495 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

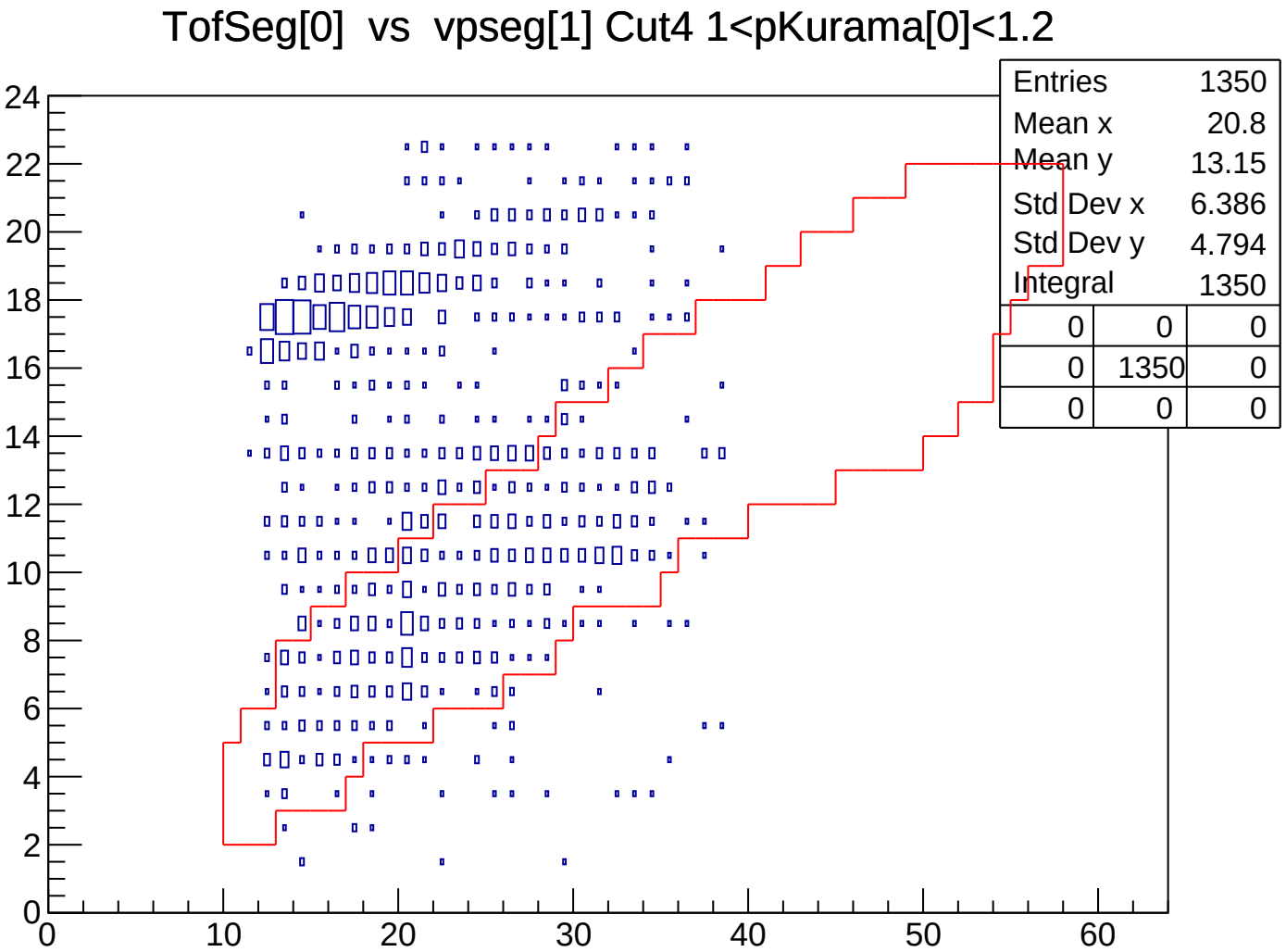

TofSeg[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x 19.8
Mean y 13.21
Std Dev x 6.937
Std Dev y 5.274
Integral 1494
0 1 0
0 1494 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

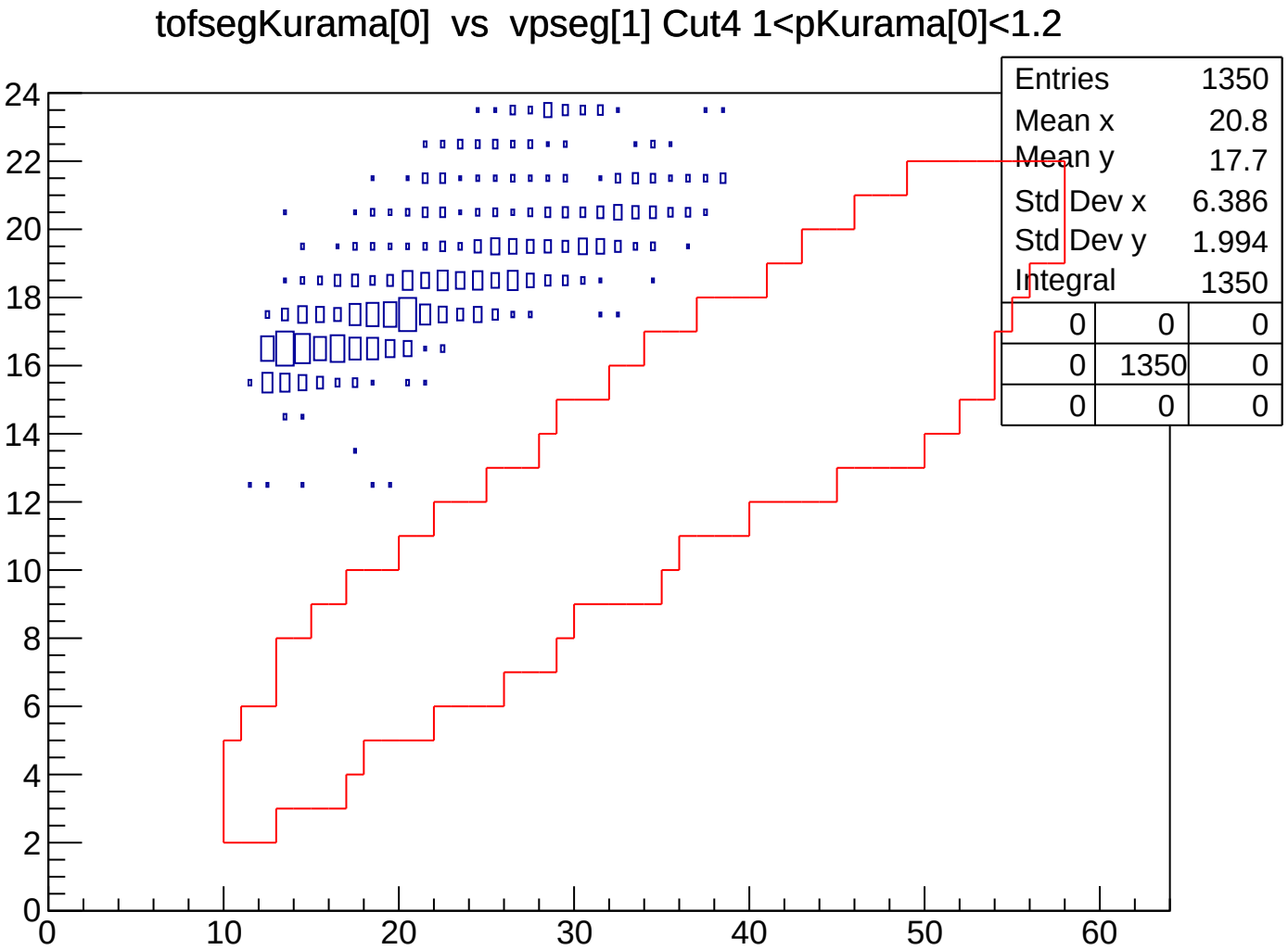

tofsegKurama[0] vs vpseg[1] Cut4 0.8<pKurama[0]<1
Entries 1495
Mean x 19.81
Mean y 18.38
Std Dev x 6.946
Std Dev y 1.881
Integral 1495
0 0 0
0 1495 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

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

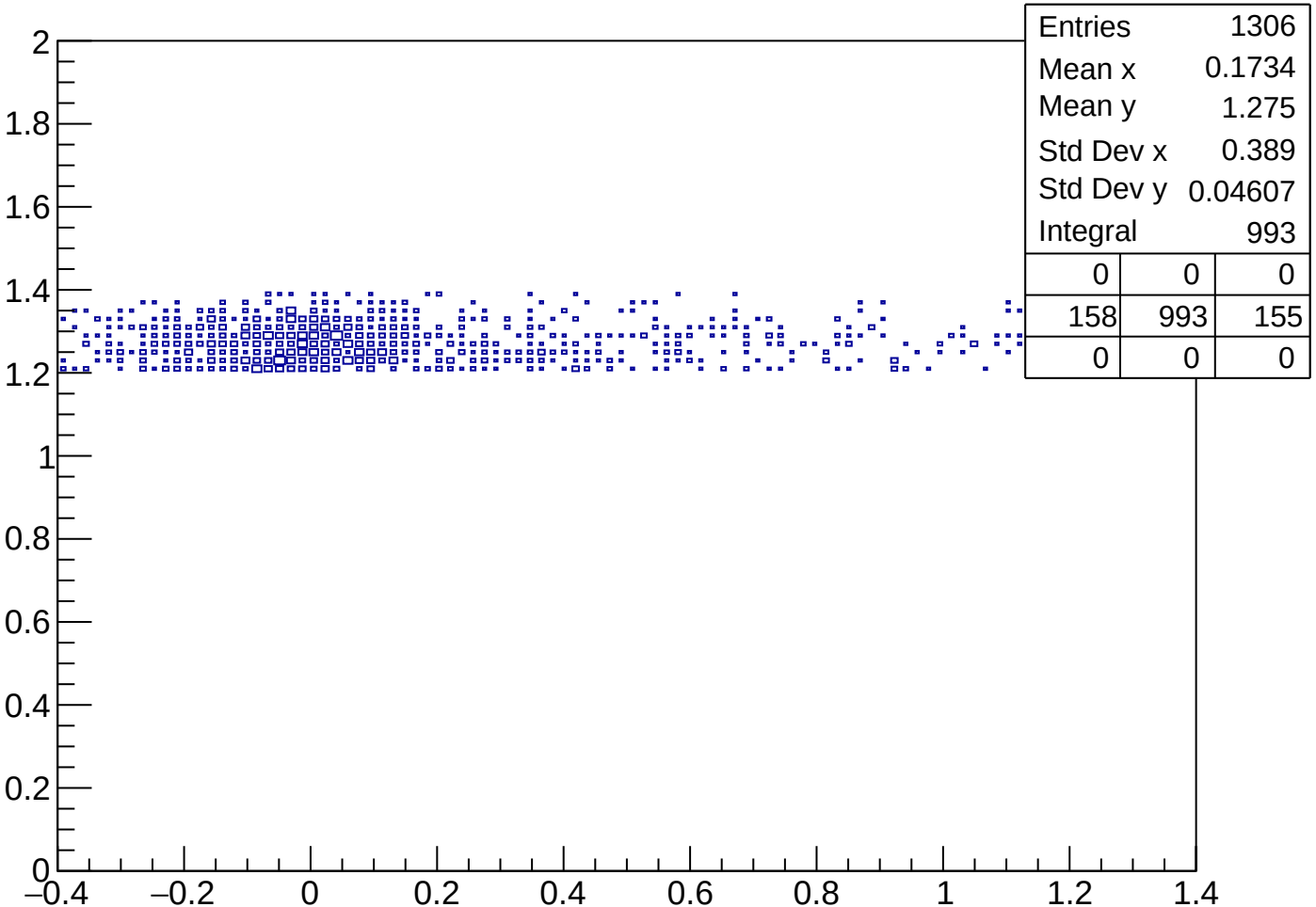


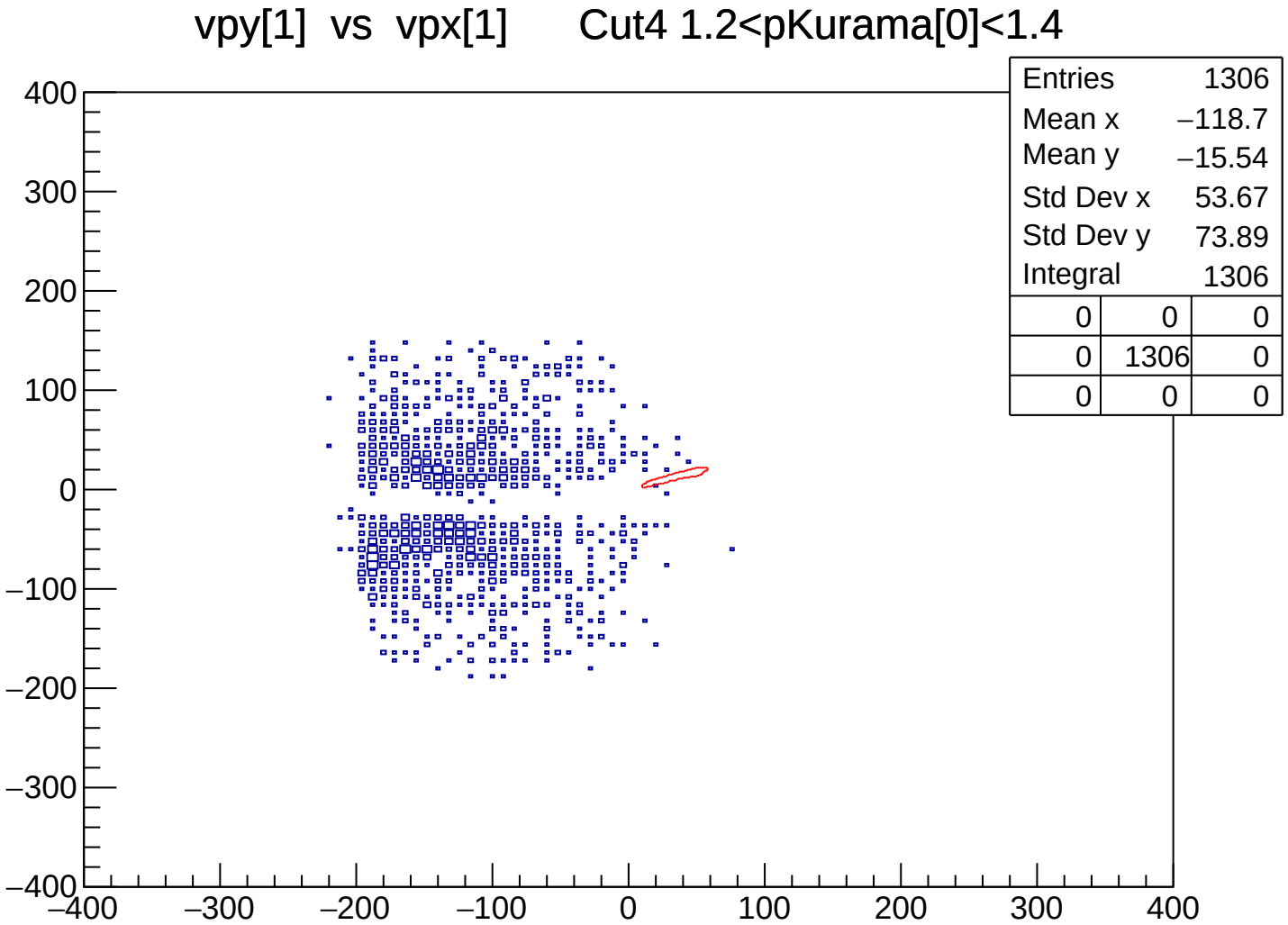

vpy[1] vs vpx[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x −104.9
Mean y −12.23
Std Dev x 66.94
Std Dev y 57.78
Integral 1350
0 0 0
0 1350 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

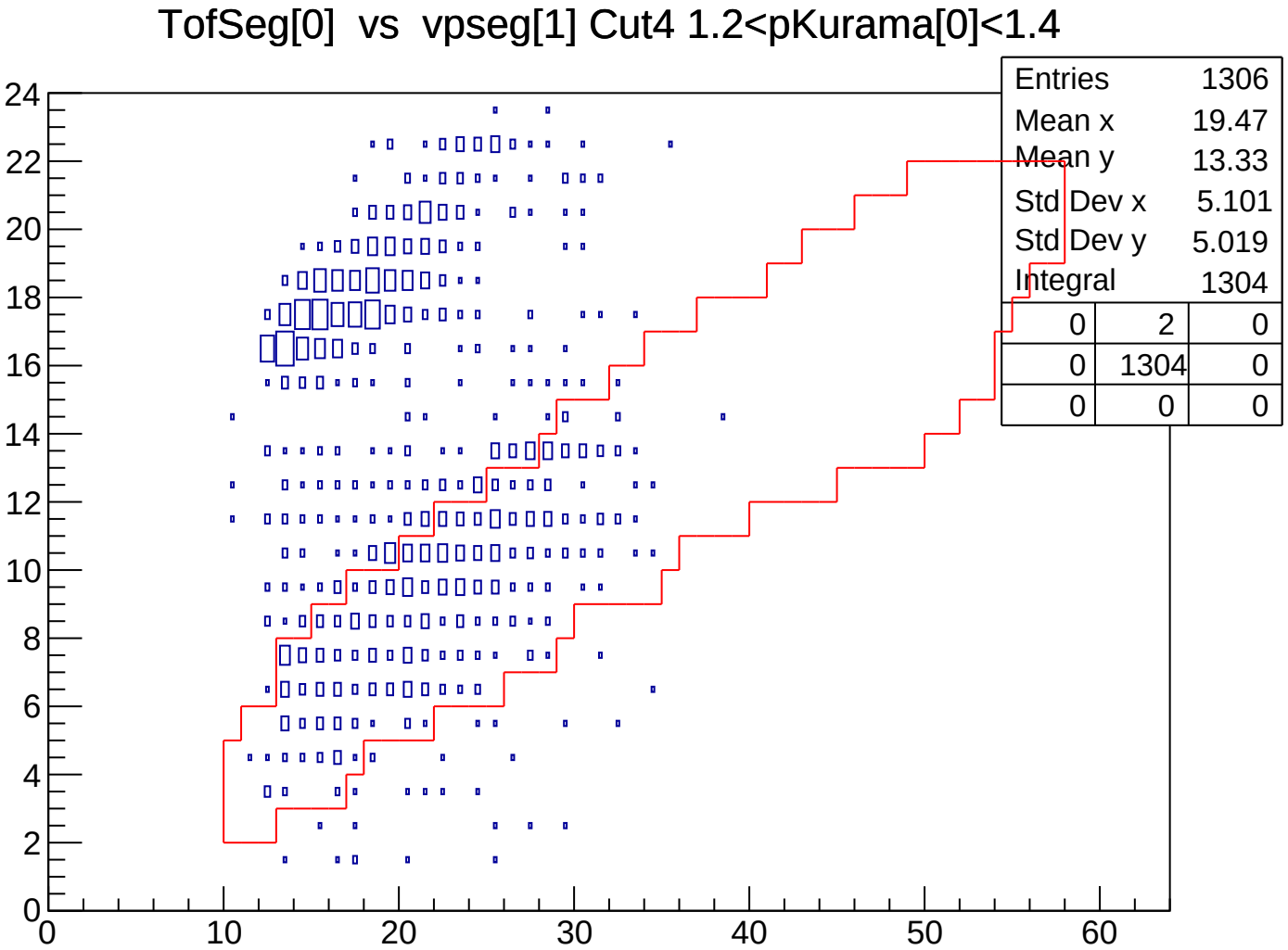

TofSeg[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x 20.8
Mean y 13.15
Std Dev x 6.386
Std Dev y 4.794
Integral 1350
0 0 0
0 1350 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

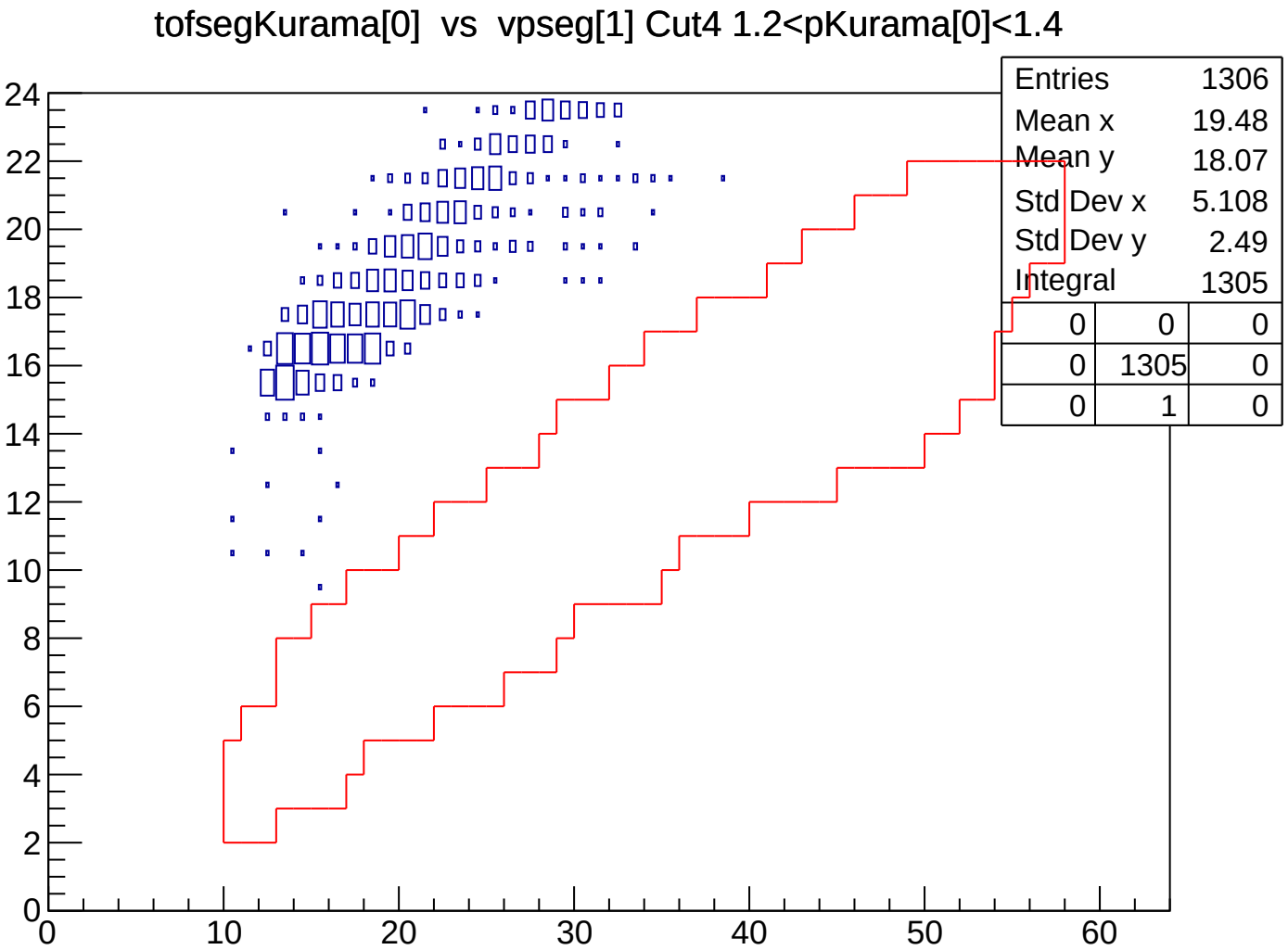

tofsegKurama[0] vs vpseg[1] Cut4 1<pKurama[0]<1.2
Entries 1350
Mean x 20.8
Mean y 17.7
Std Dev x 6.386
Std Dev y 1.994
Integral 1350
0 0 0
0 1350 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

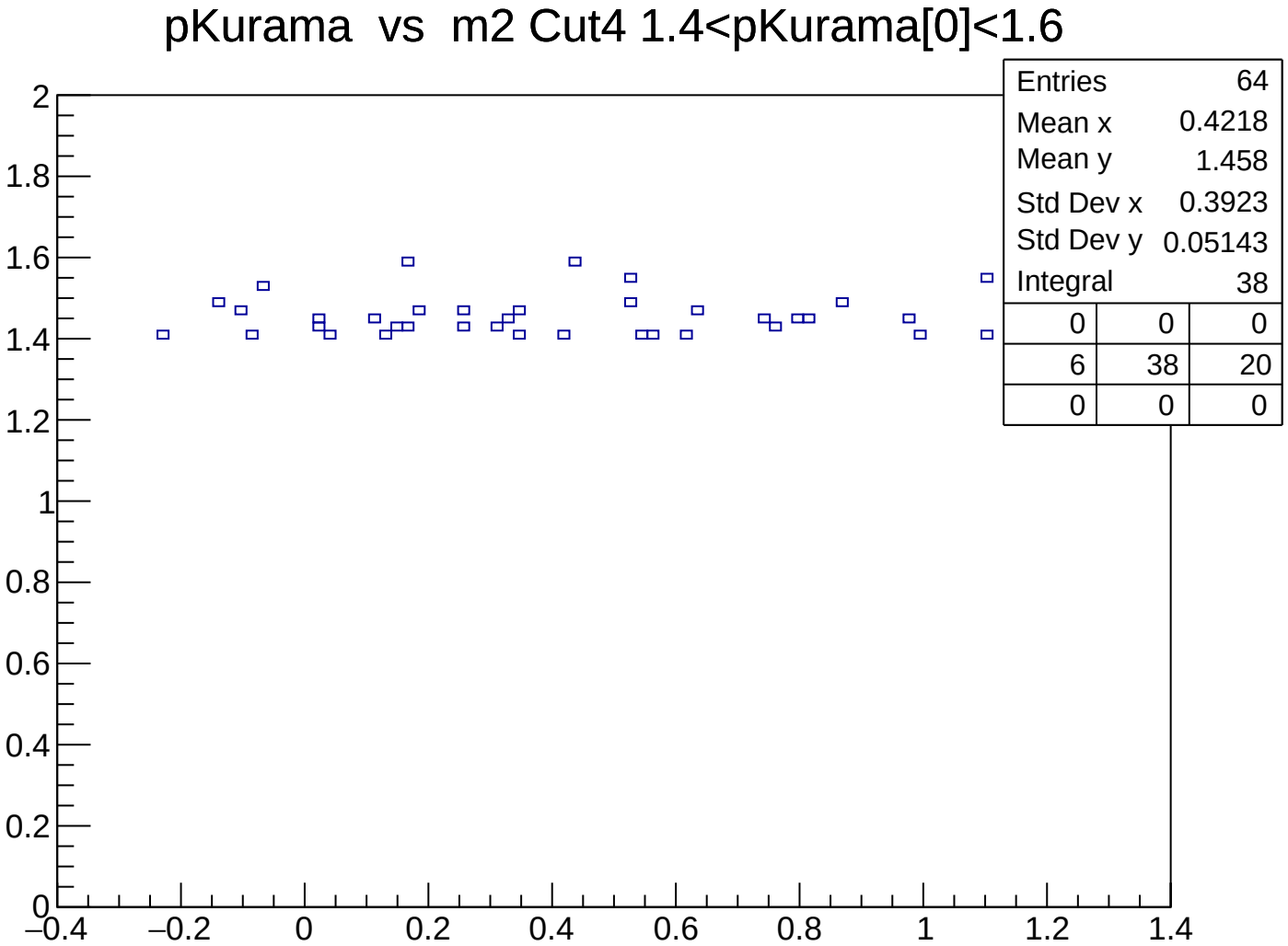
pKurama vs m2 Cut4 1.2<pKurama[0]<1.4

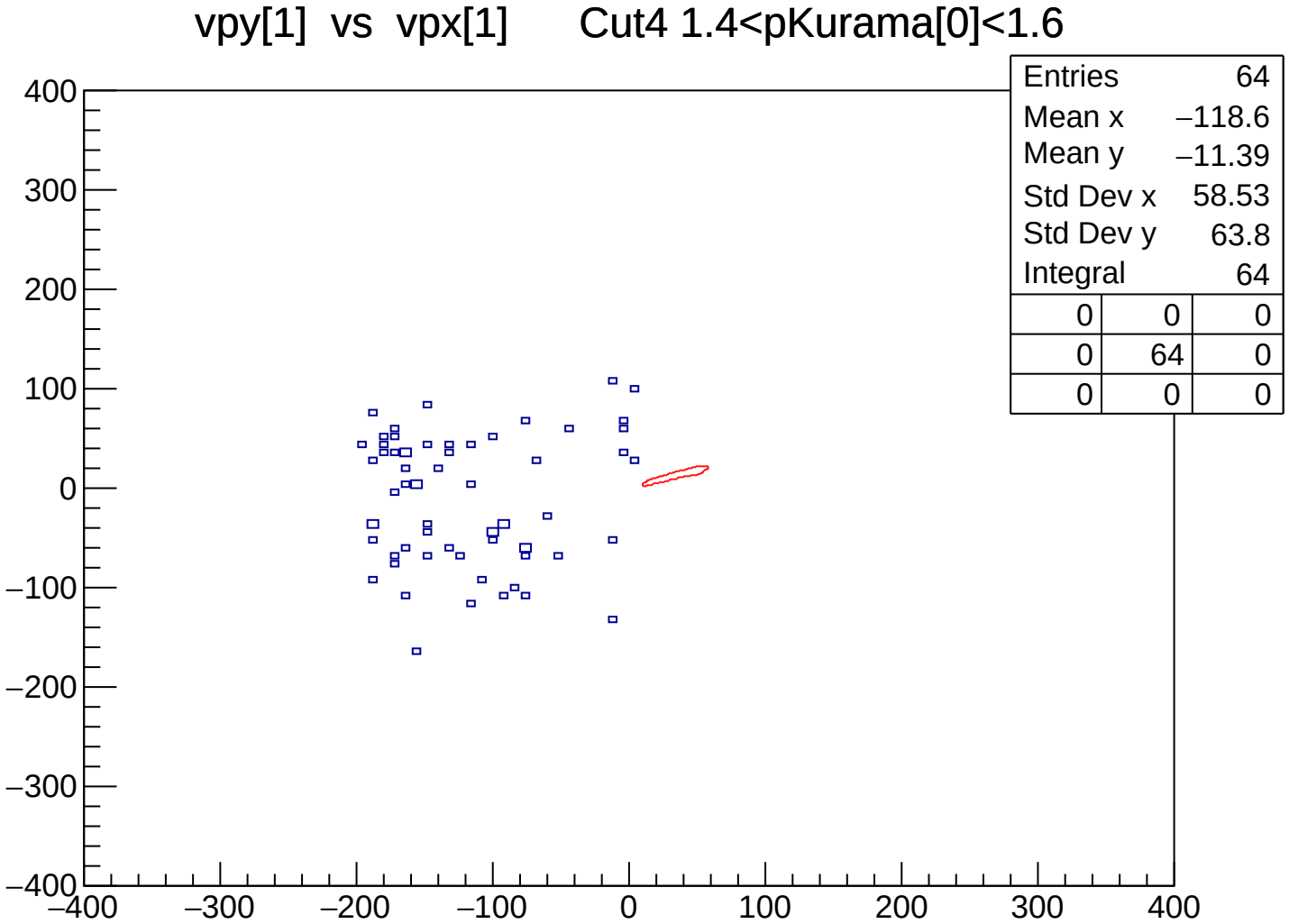


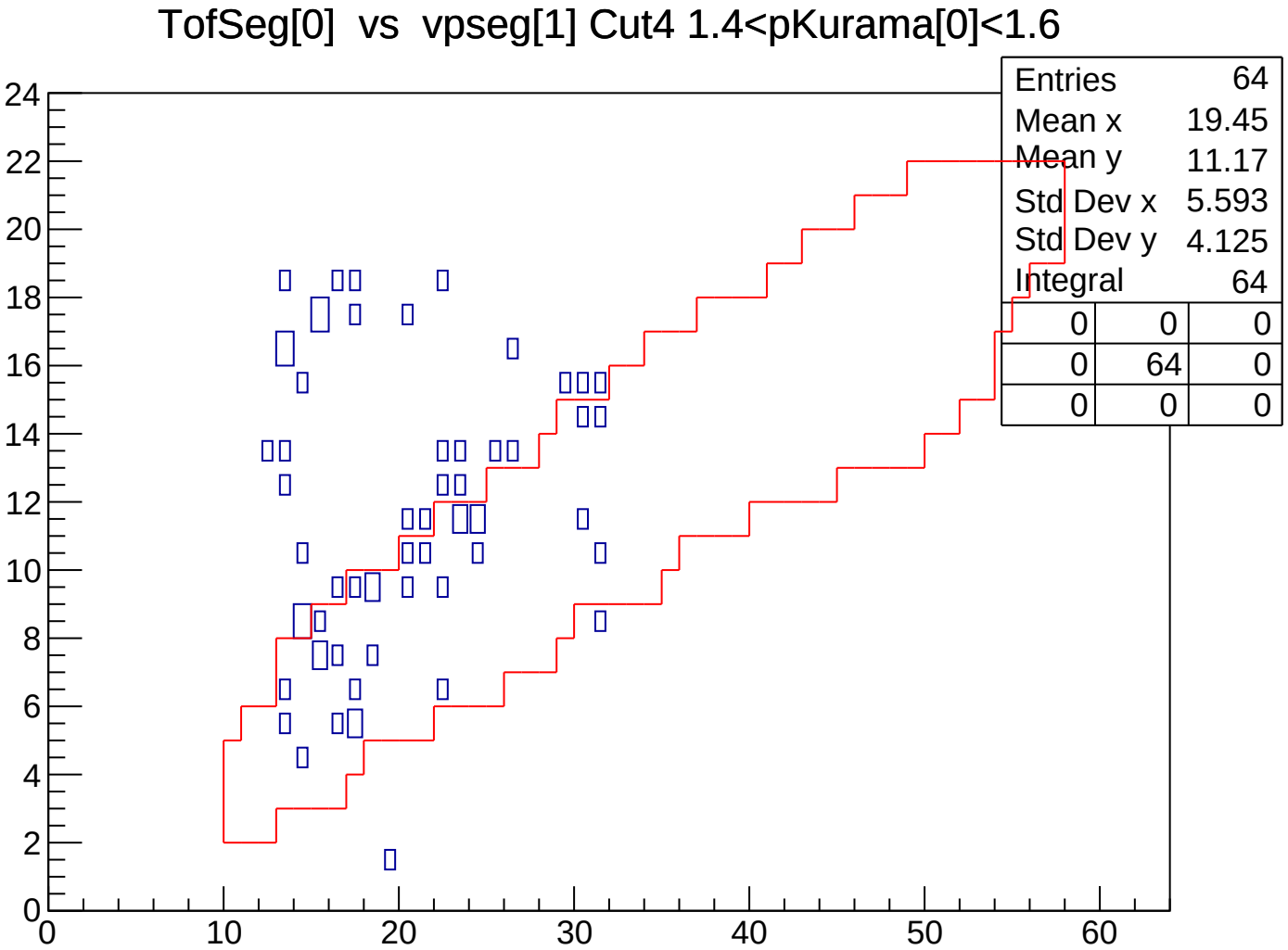

vpy[1] vs vpx[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x −118.7
Mean y −15.54
Std Dev x 53.67
Std Dev y 73.89
Integral 1306
0 0 0
0 1306 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

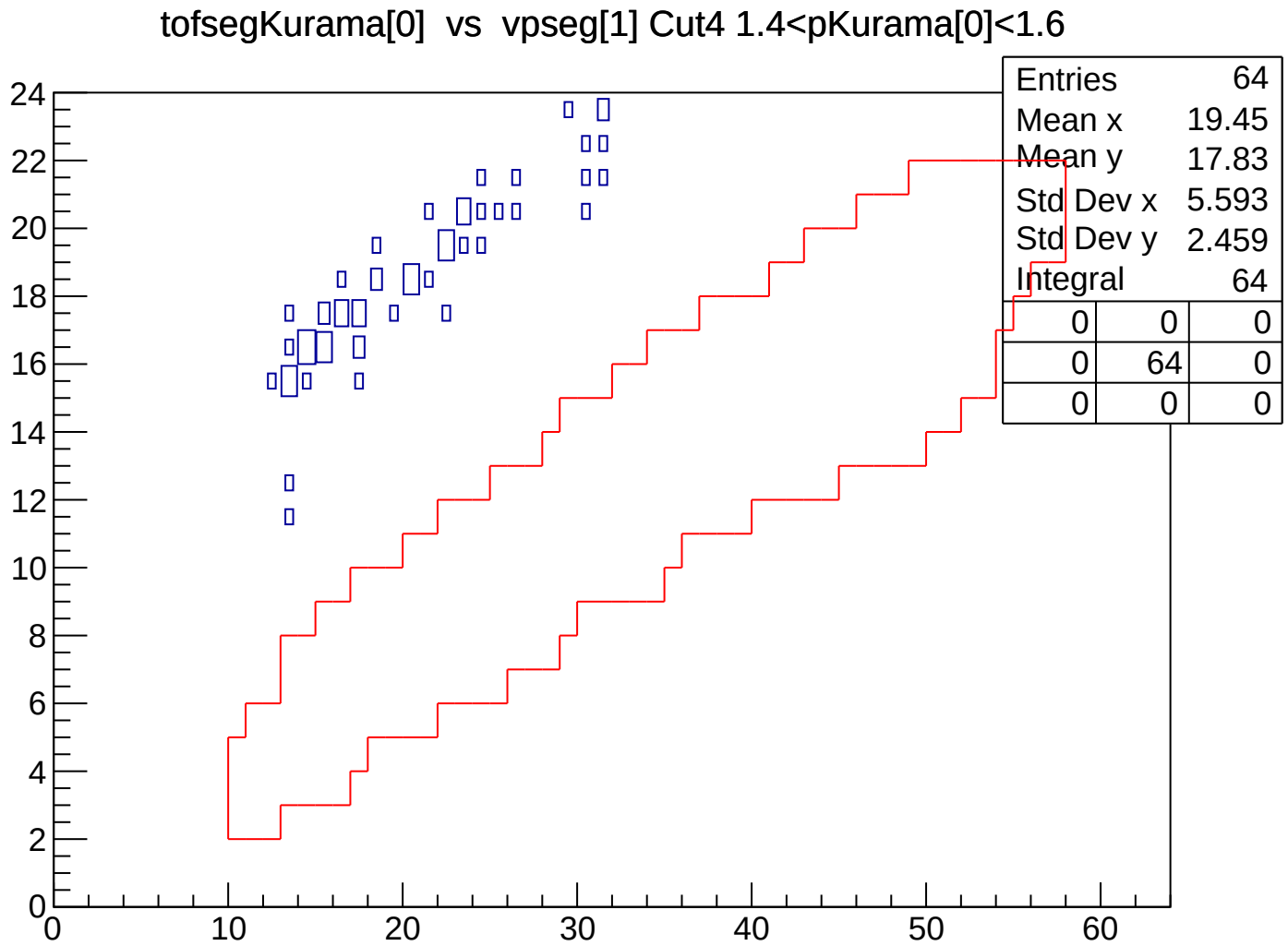

TofSeg[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x 19.47
Mean y 13.33
Std Dev x 5.101
Std Dev y 5.019
Integral 1304
0 2 0
0 1304 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

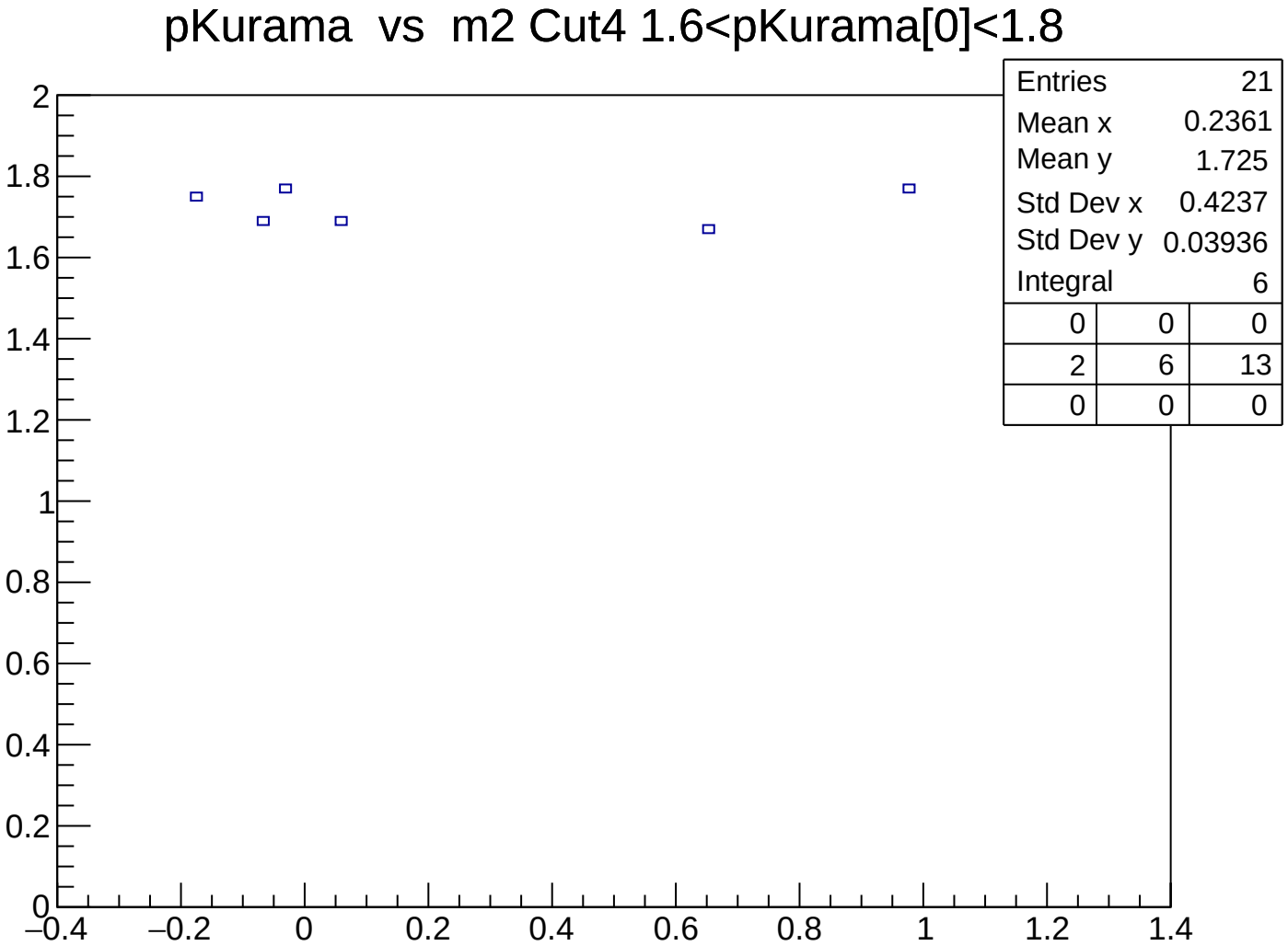

tofsegKurama[0] vs vpseg[1] Cut4 1.2<pKurama[0]<1.4
Entries 1306
Mean x 19.48
Mean y 18.07
Std Dev x 5.108
Std Dev y 2.49
Integral 1305
0 0 0
0 1305 0
0 1 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

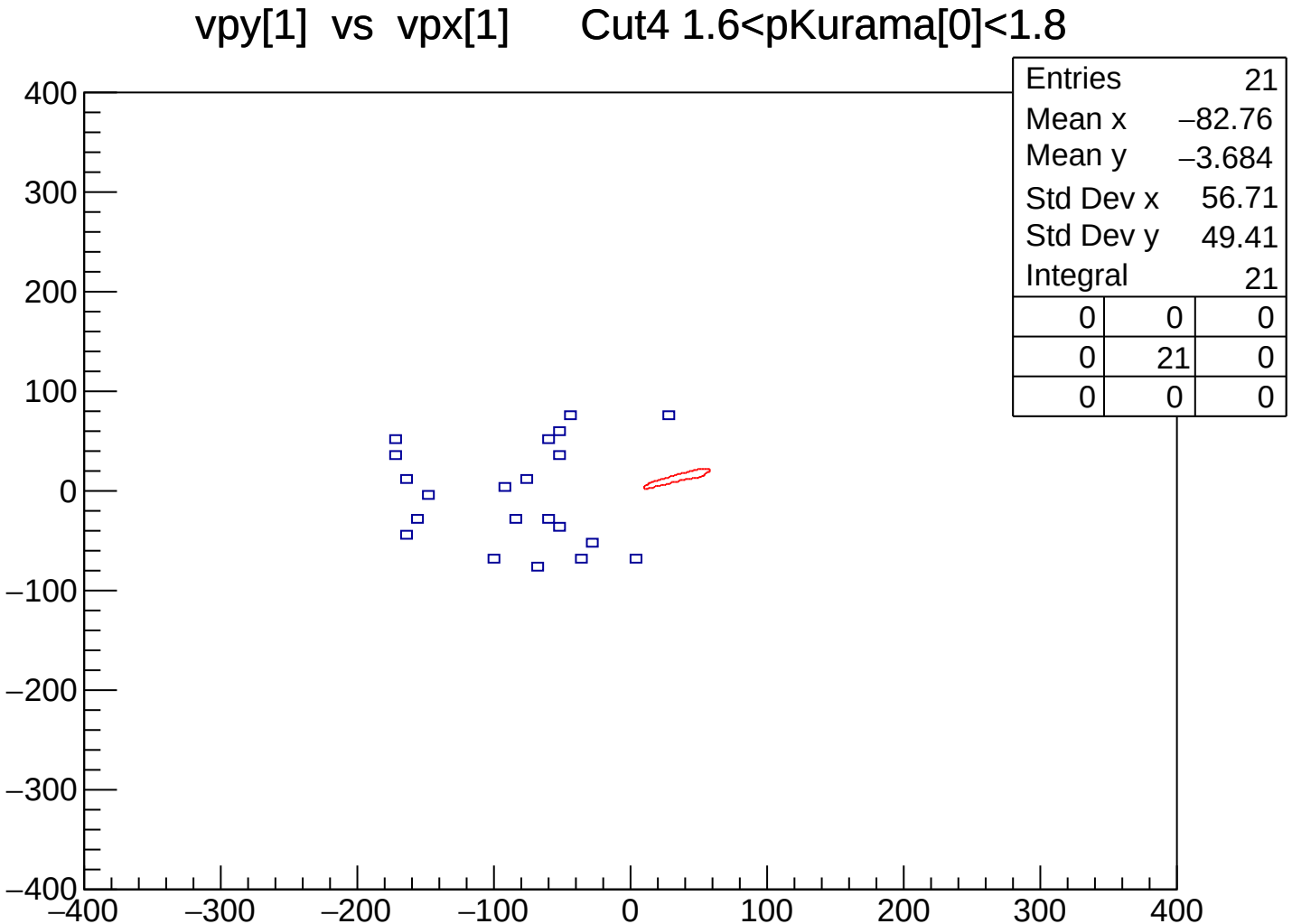

pKurama vs m2 Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 0.4218
Mean y 1.458
Std Dev x 0.3923
Std Dev y 0.05143
Integral 38
0 0 0
6 38 20
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

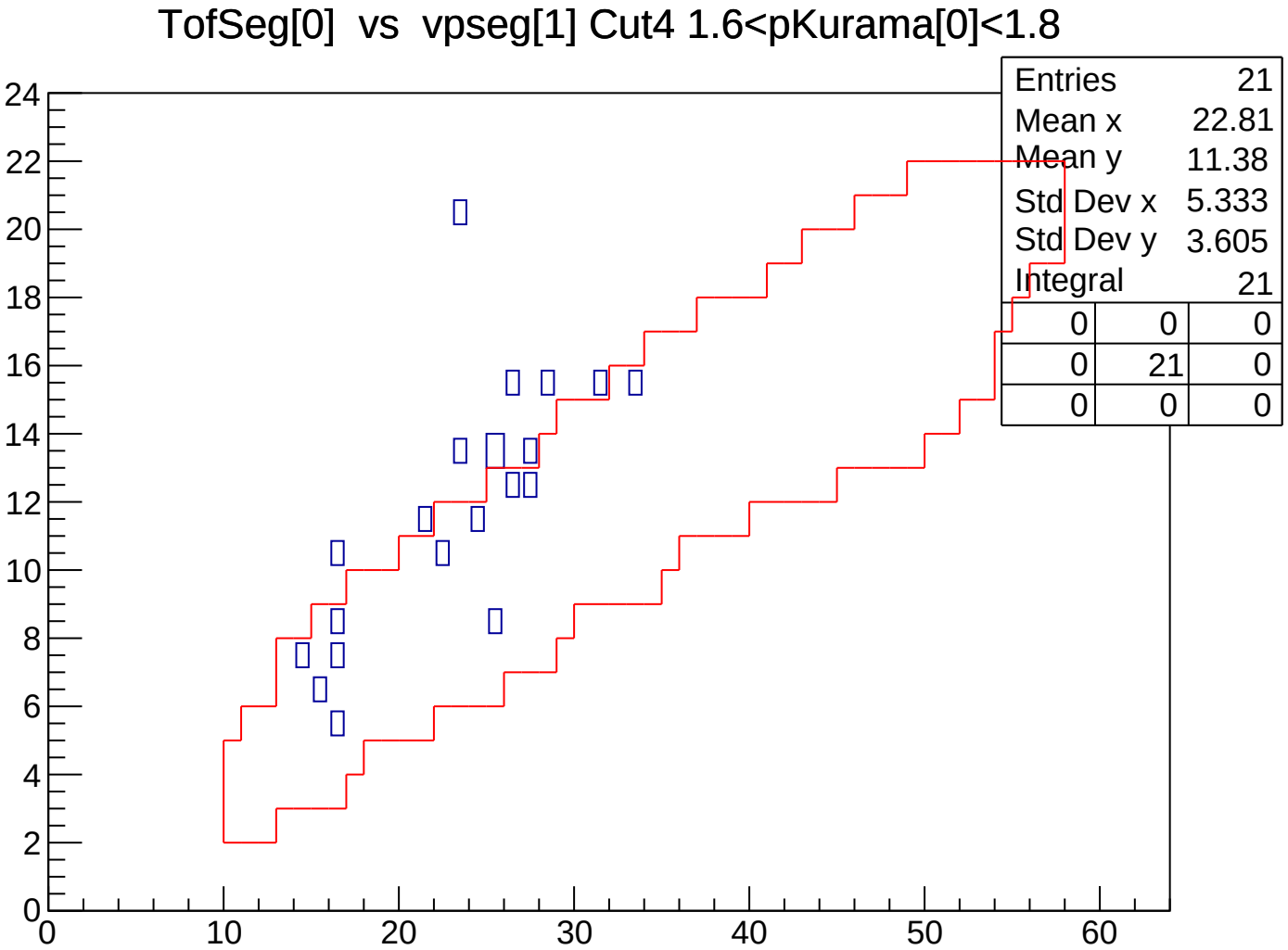

vpy[1] vs vpx[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x −118.6
Mean y −11.39
Std Dev x 58.53
Std Dev y 63.8
Integral 64
0 0 0
0 64 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

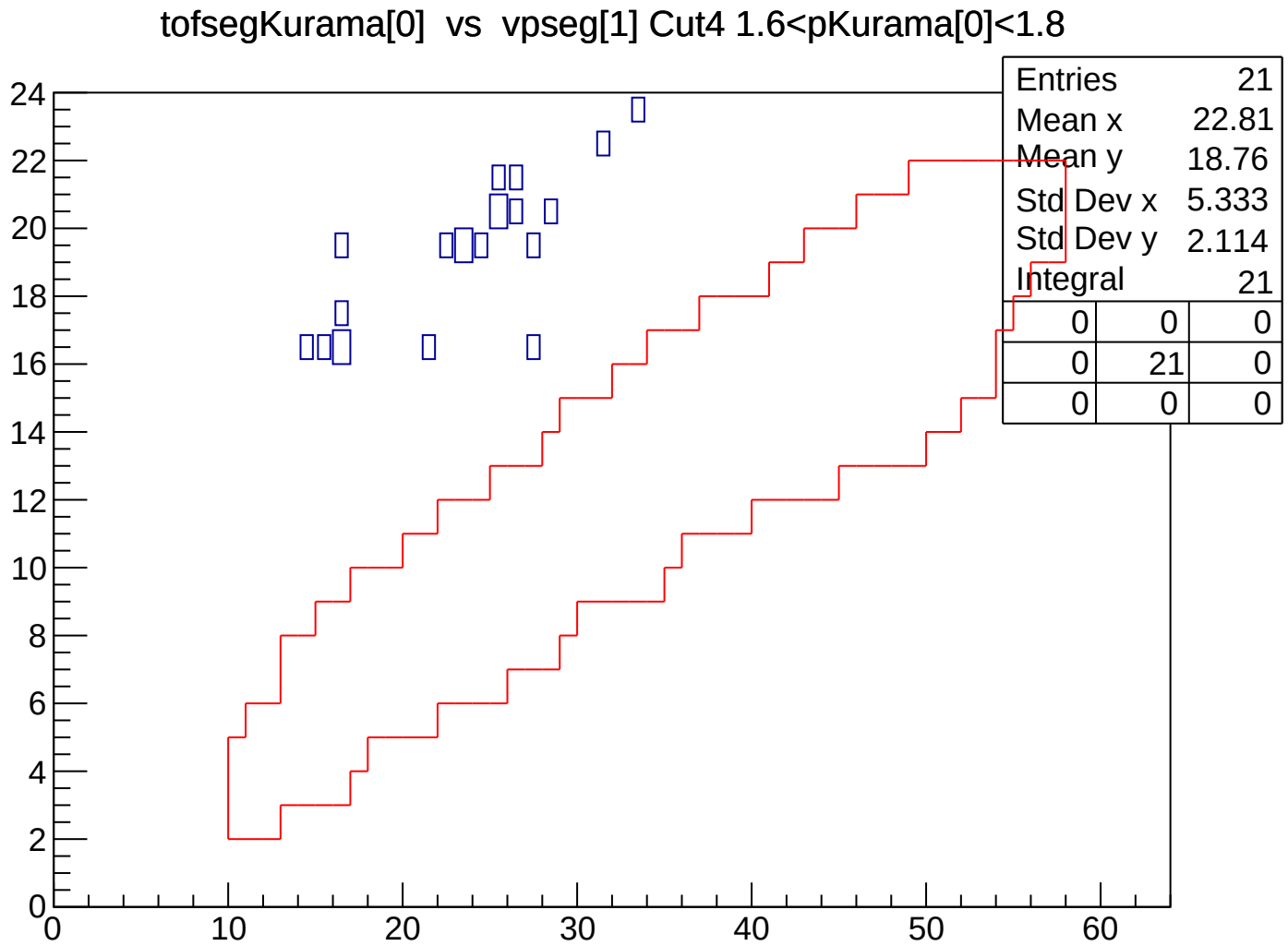

TofSeg[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 19.45
Mean y 11.17
Std Dev x 5.593
Std Dev y 4.125
Integral 64
0 0 0
0 64 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

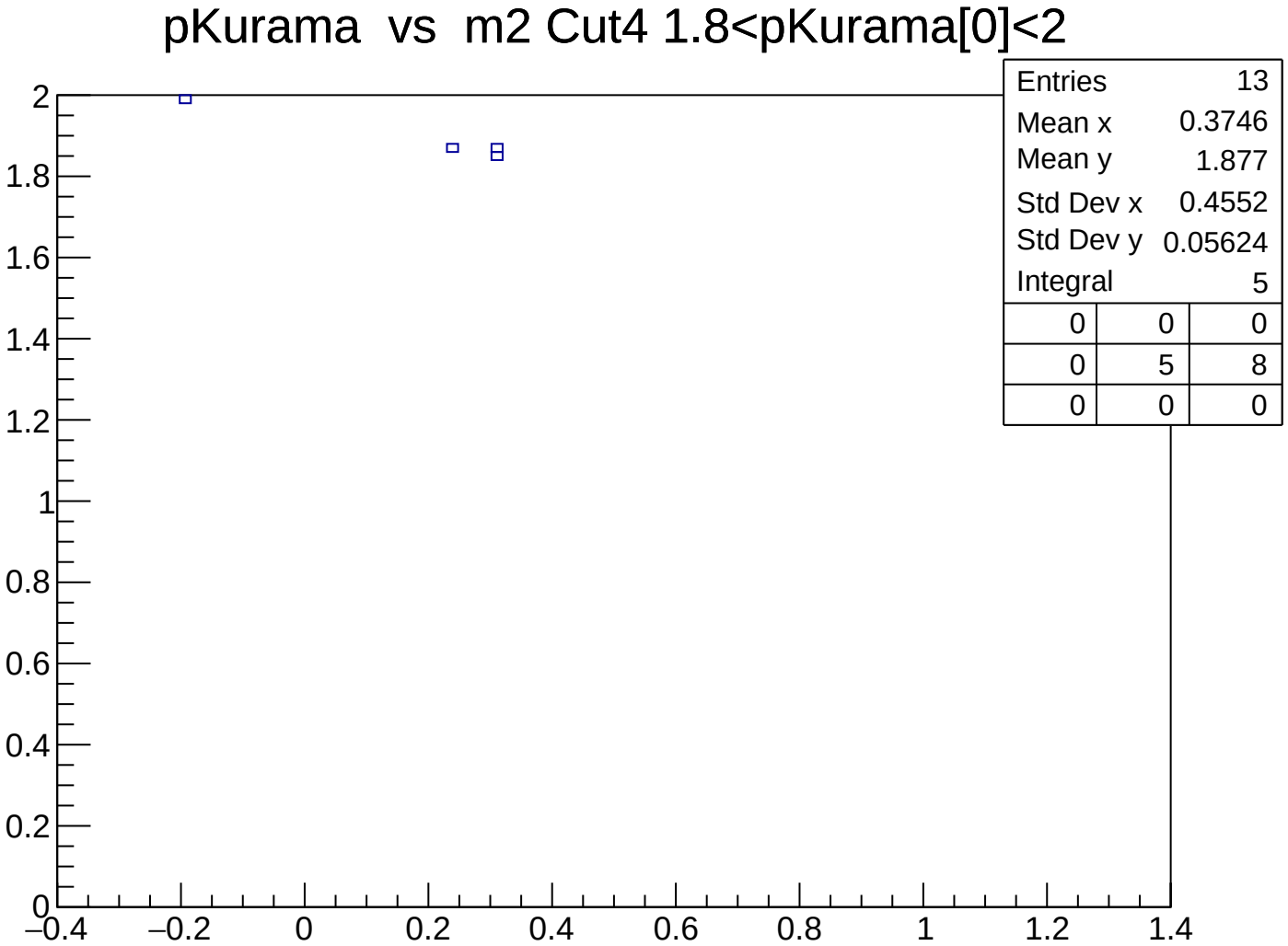

tofsegKurama[0] vs vpseg[1] Cut4 1.4<pKurama[0]<1.6
Entries 64
Mean x 19.45
Mean y 17.83
Std Dev x 5.593
Std Dev y 2.459
Integral 64
0 0 0
0 64 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

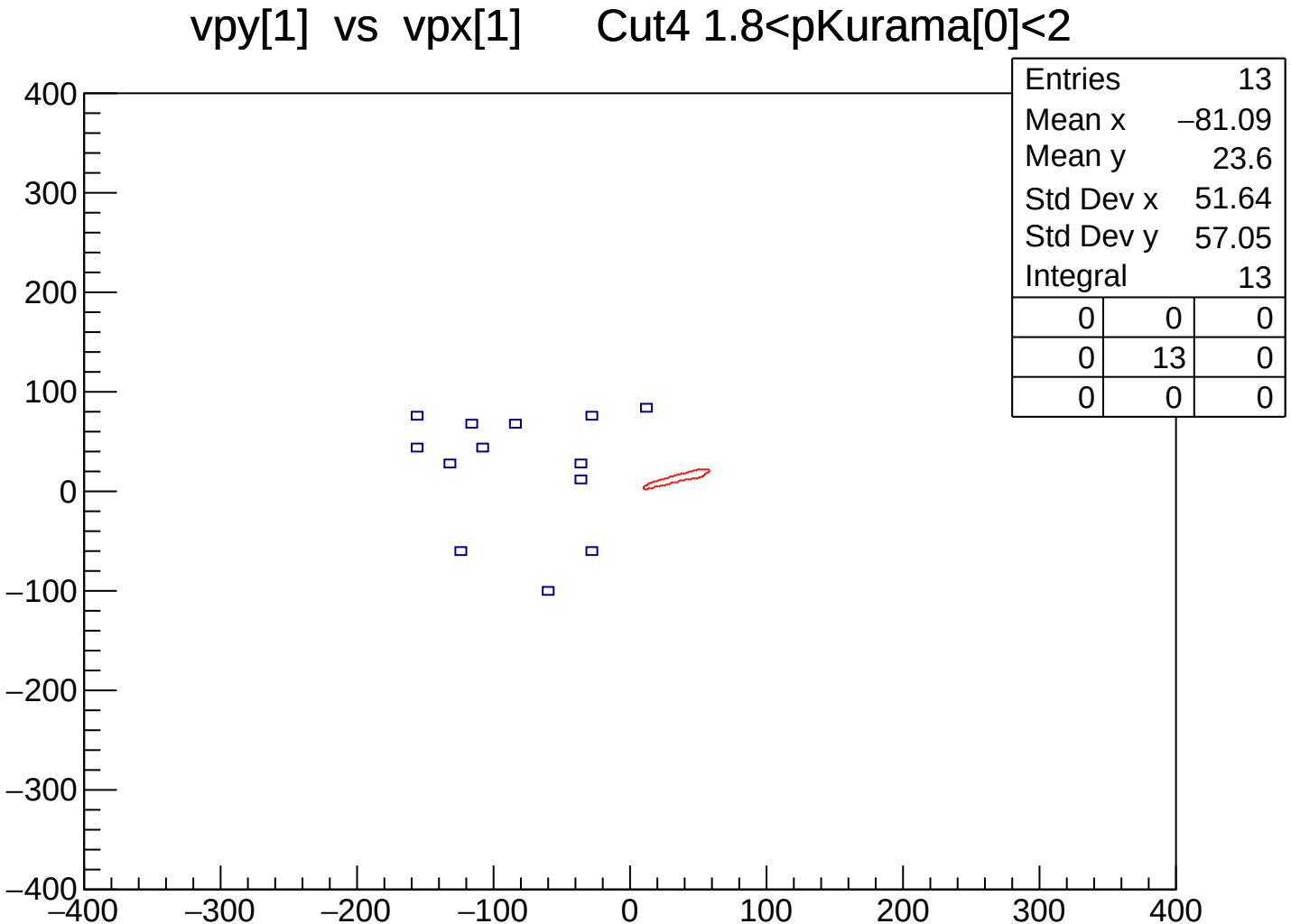

pKurama vs m2 Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 0.2361
Mean y 1.725
Std Dev x 0.4237
Std Dev y 0.03936
Integral 6
0 0 0
2 6 13
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

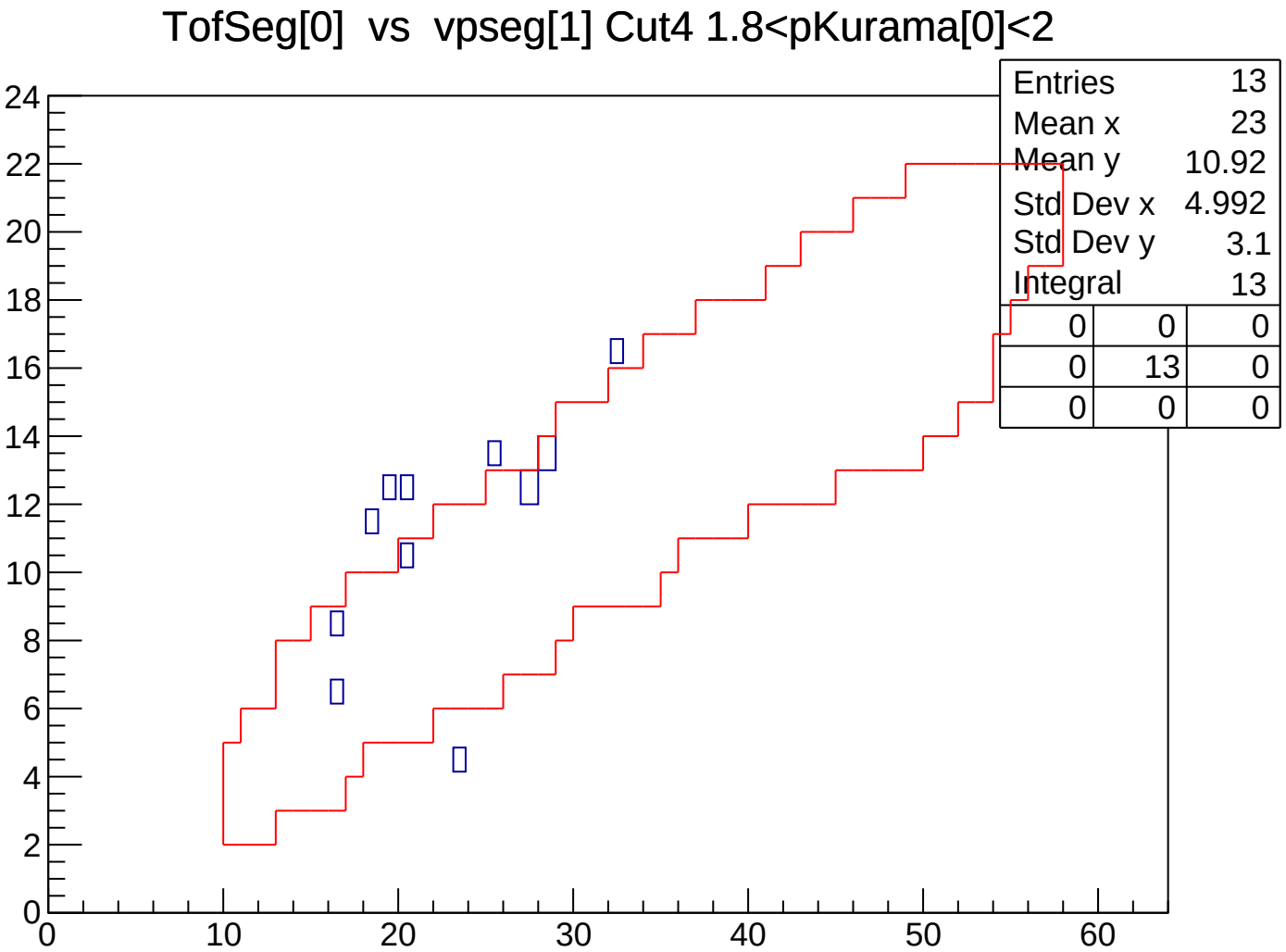

vpy[1] vs vpx[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x –82.76
Mean y –3.684
Std Dev x 56.71
Std Dev y 49.41
Integral 21
0 0 0
0 21 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

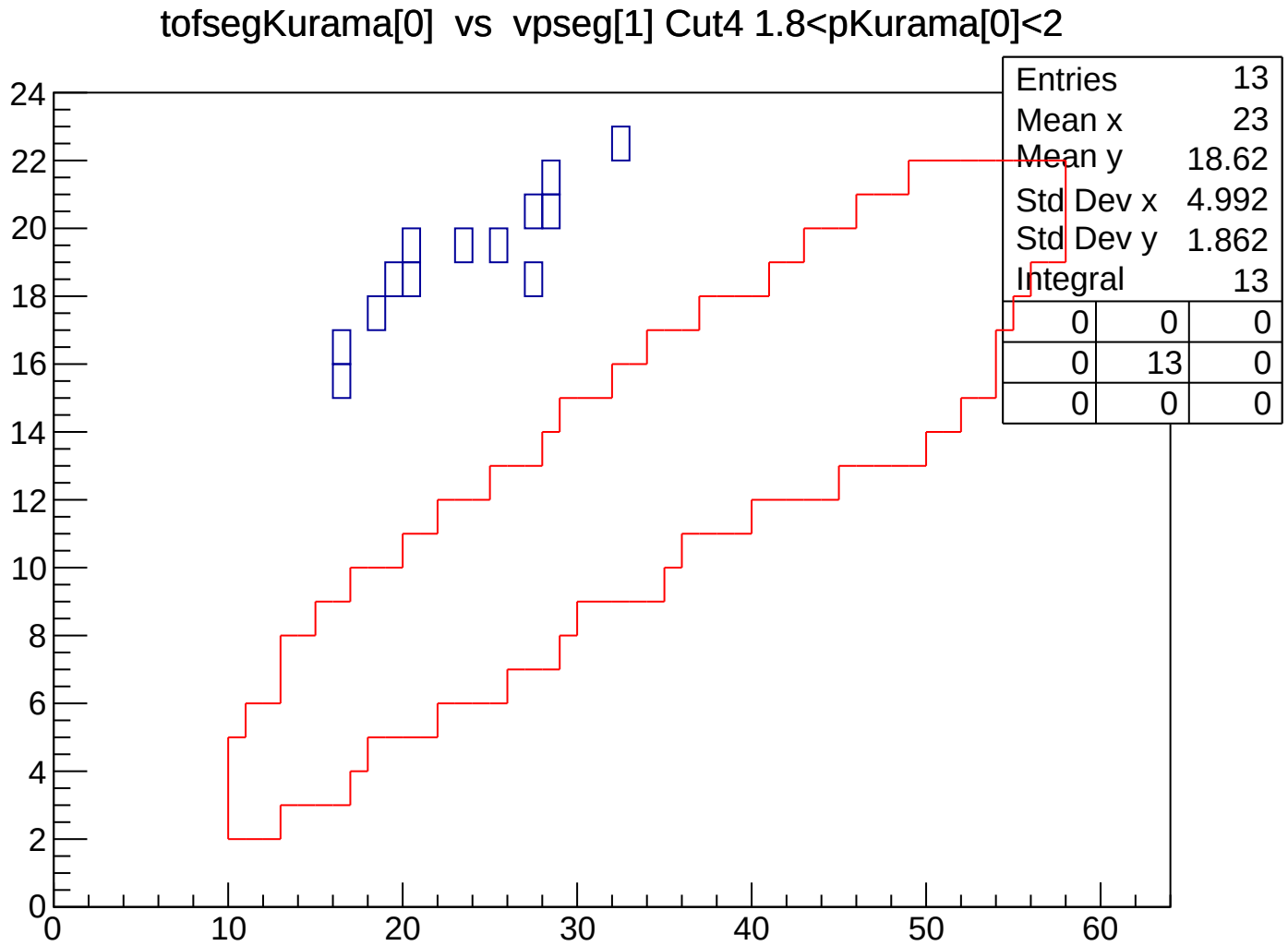

TofSeg[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 22.81
Mean y 11.38
Std Dev x 5.333
Std Dev y 3.605
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

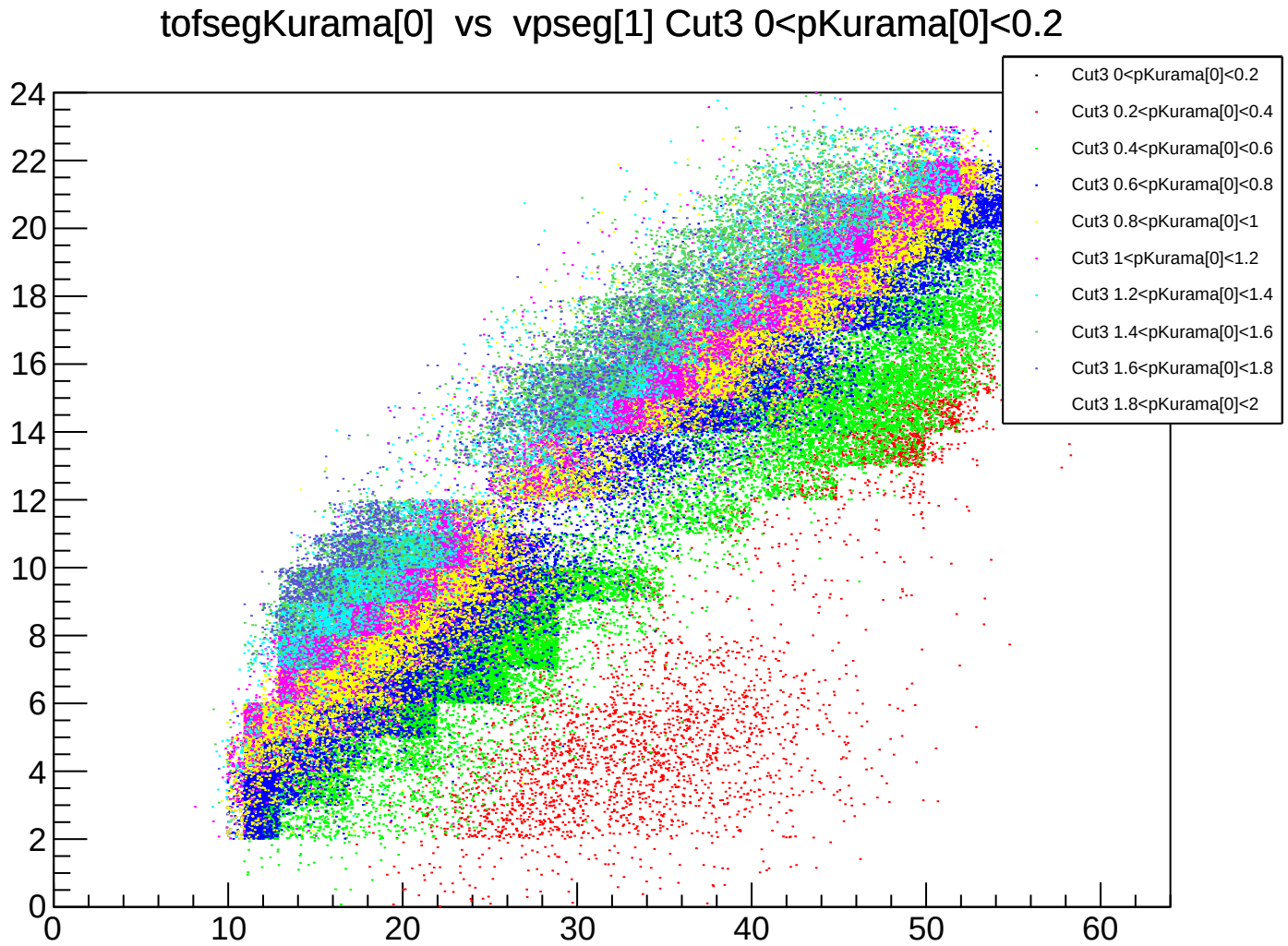

tofsegKurama[0] vs vpseg[1] Cut4 1.6<pKurama[0]<1.8
Entries 21
Mean x 22.81
Mean y 18.76
Std Dev x 5.333
Std Dev y 2.114
Integral 21
0 0 0
0 21 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60

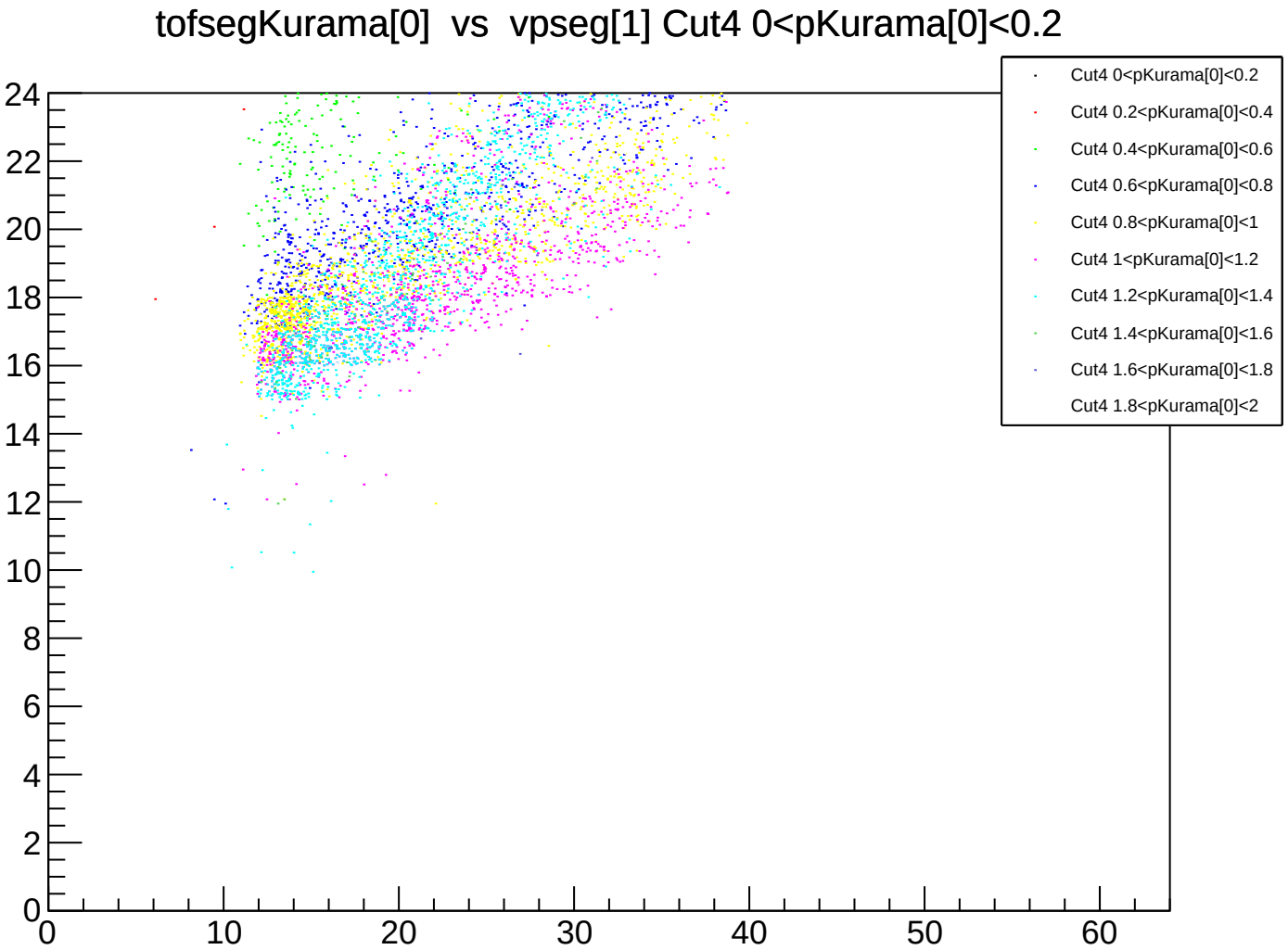

pKurama vs m2 Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 0.3746
Mean y 1.877
Std Dev x 0.4552
Std Dev y 0.05624
Integral 5
0 0 0
0 5 8
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

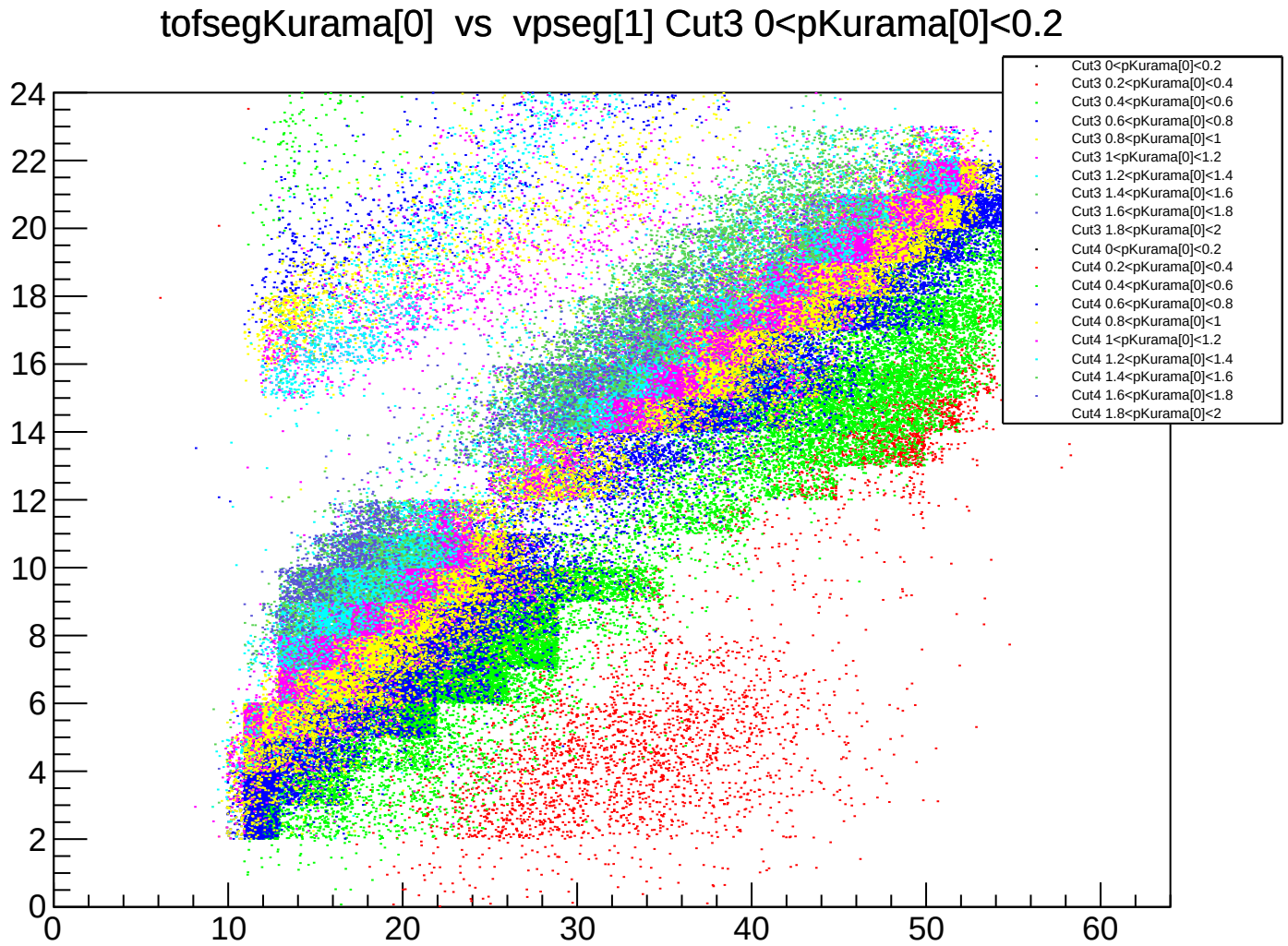

vpy[1] vs vpx[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x –81.09
Mean y 23.6
Std Dev x 51.64
Std Dev y 57.05
Integral 13
0 0 0
0 13 0
0 0 0
400
300
200
100
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400

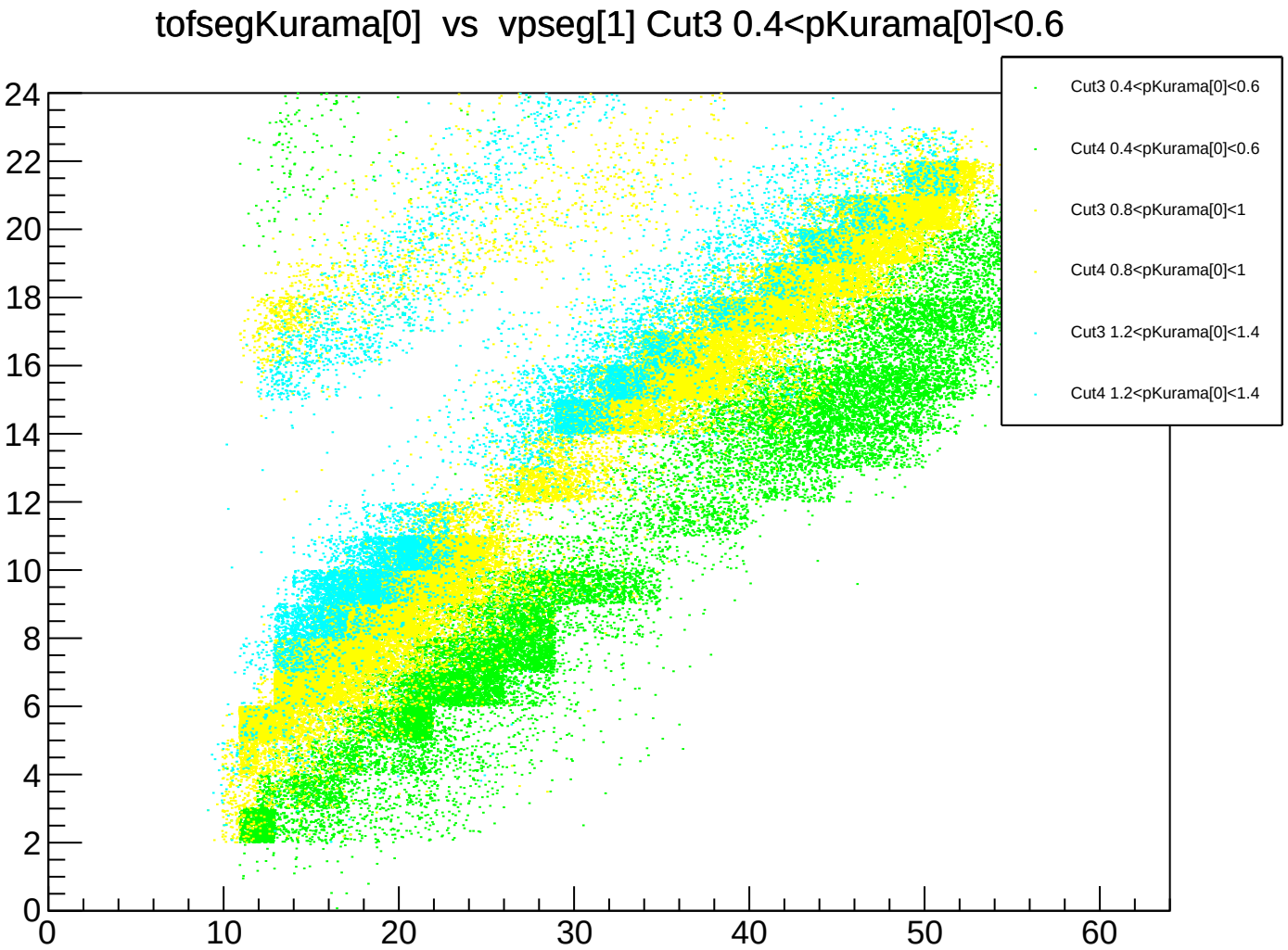

TofSeg[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 23
Mean y 10.92
Std Dev x 4.992
Std Dev y 3.1
Integral 13
0 0 0
0 13 0
0 0 0
0
2
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60


tofsegKurama[0] vs vpseg[1] Cut4 1.8<pKurama[0]<2
Entries 13
Mean x 23
Mean y 18.62
Std Dev x 4.992
Std Dev y 1.862
Integral 13
0 0 0
0 13 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
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
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
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
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
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
4
6
8
10
12
14
16
18
20
22
24
0
10
20
30
40
50
60