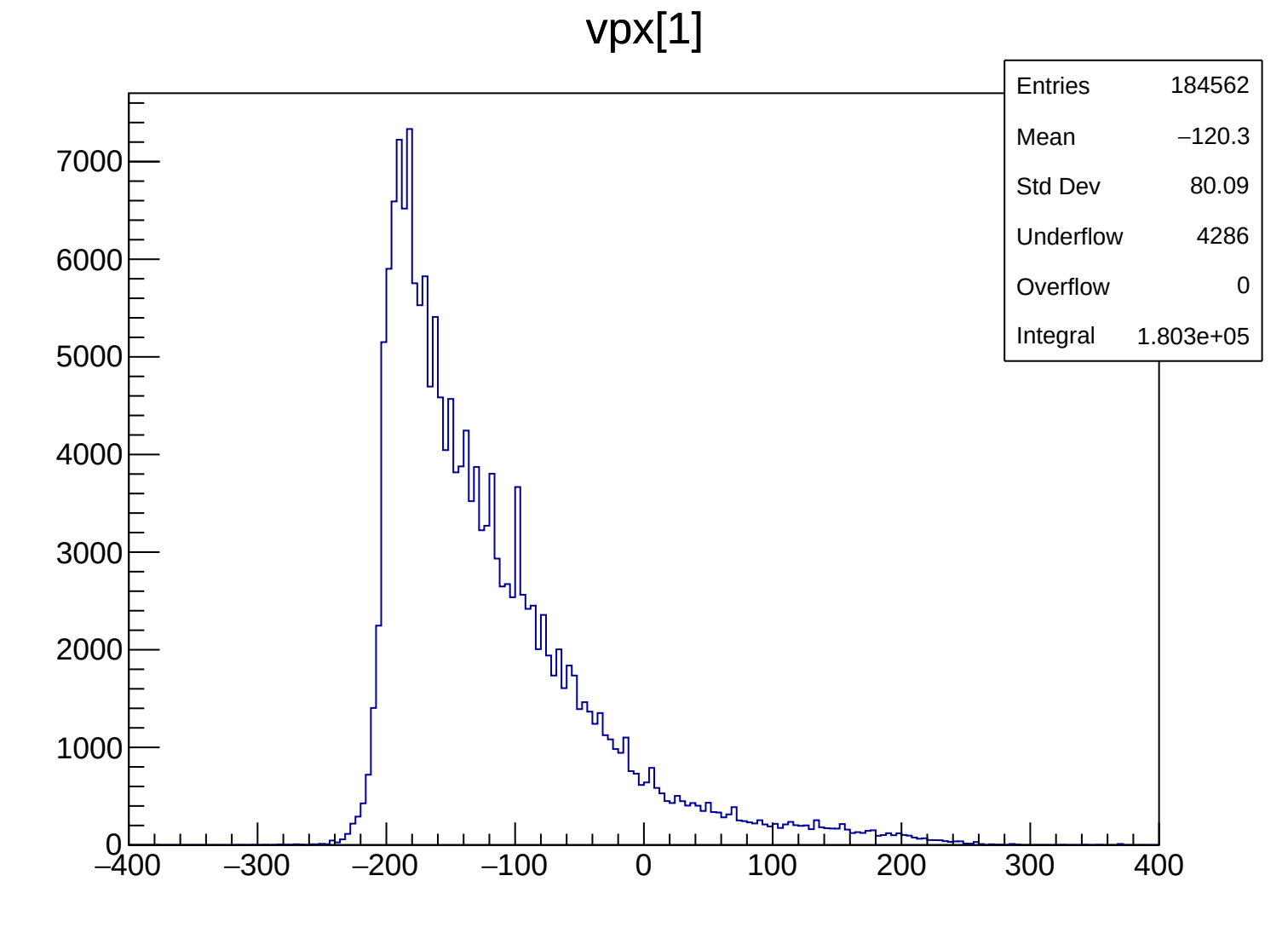
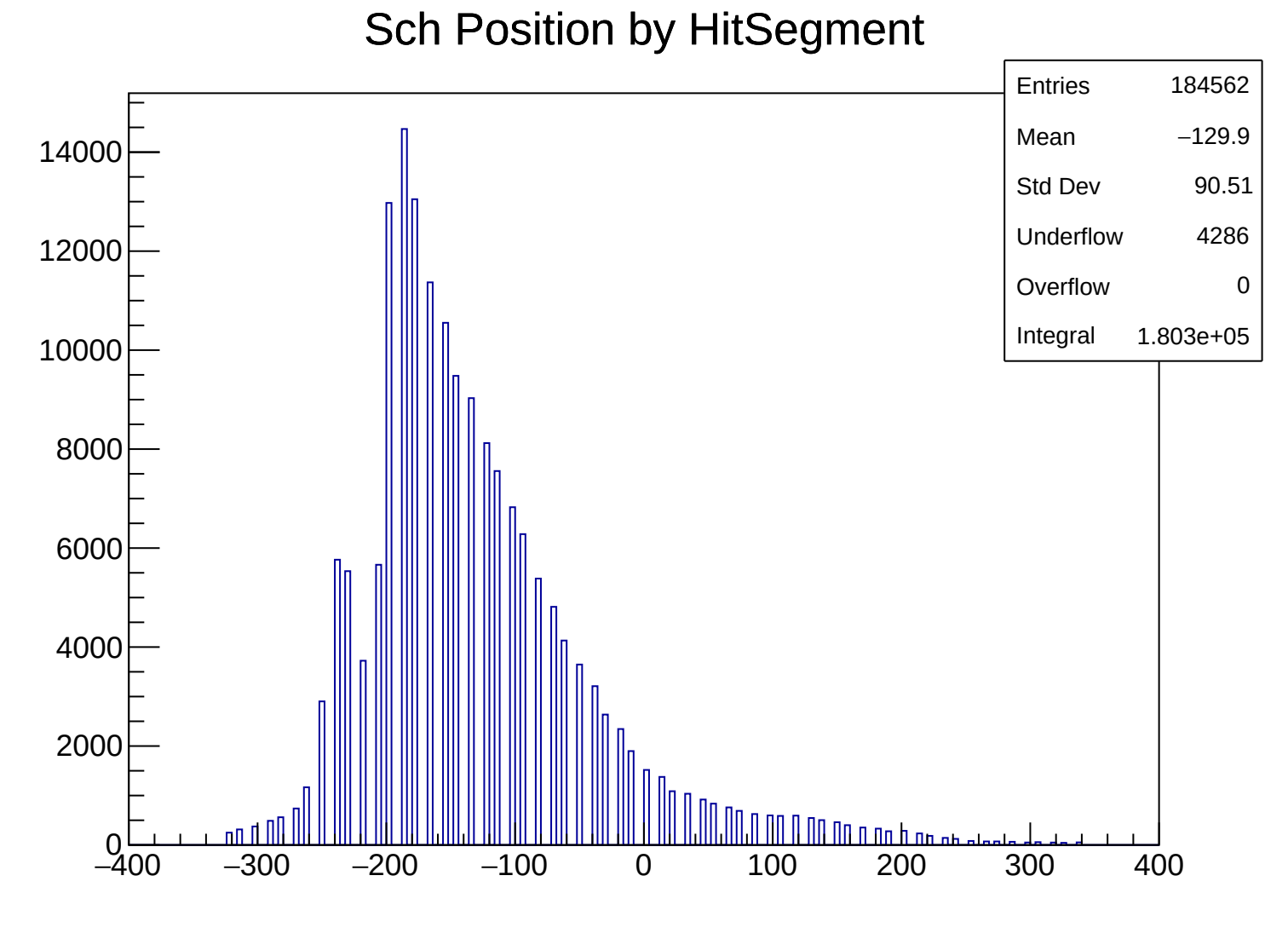
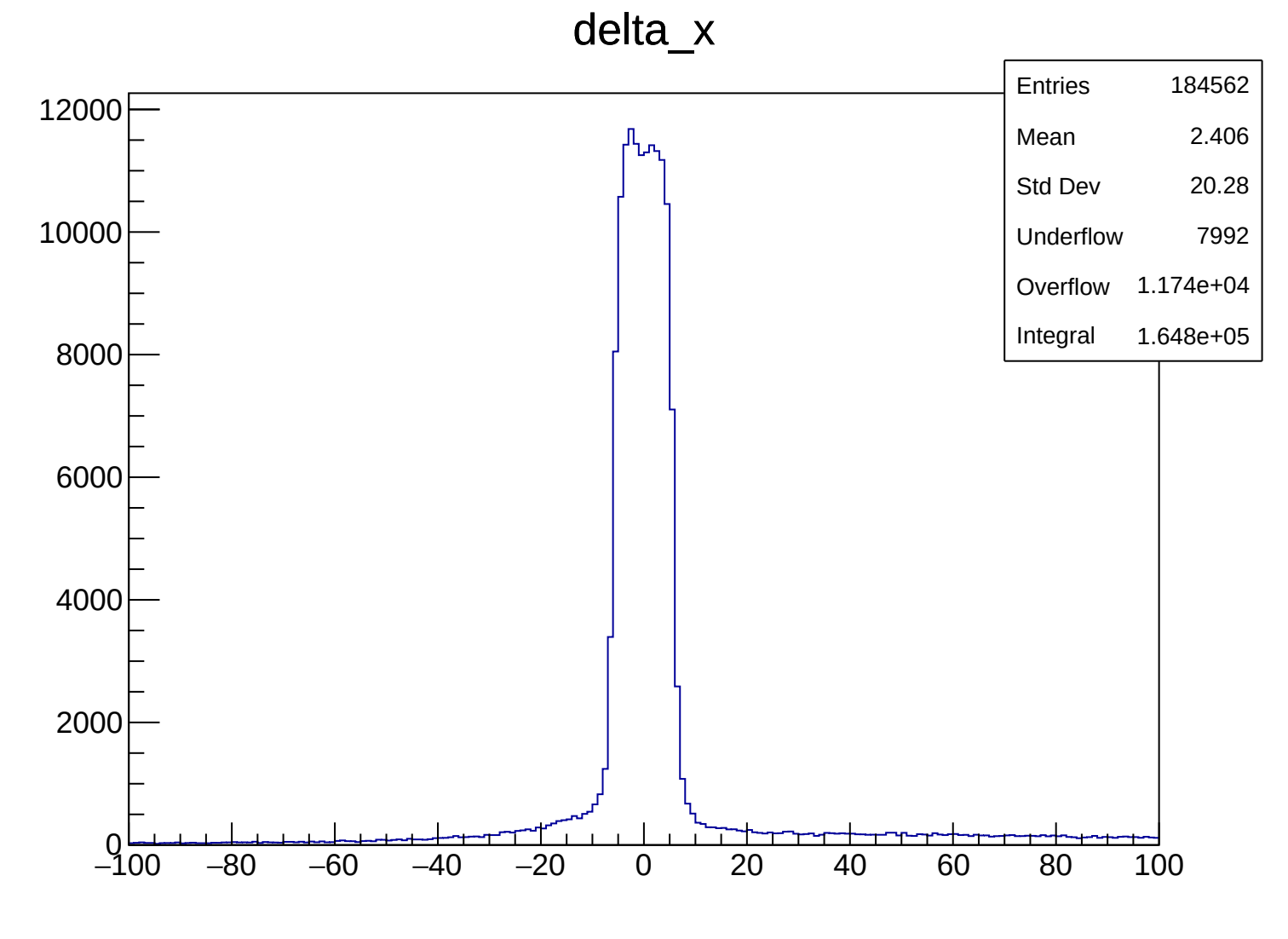
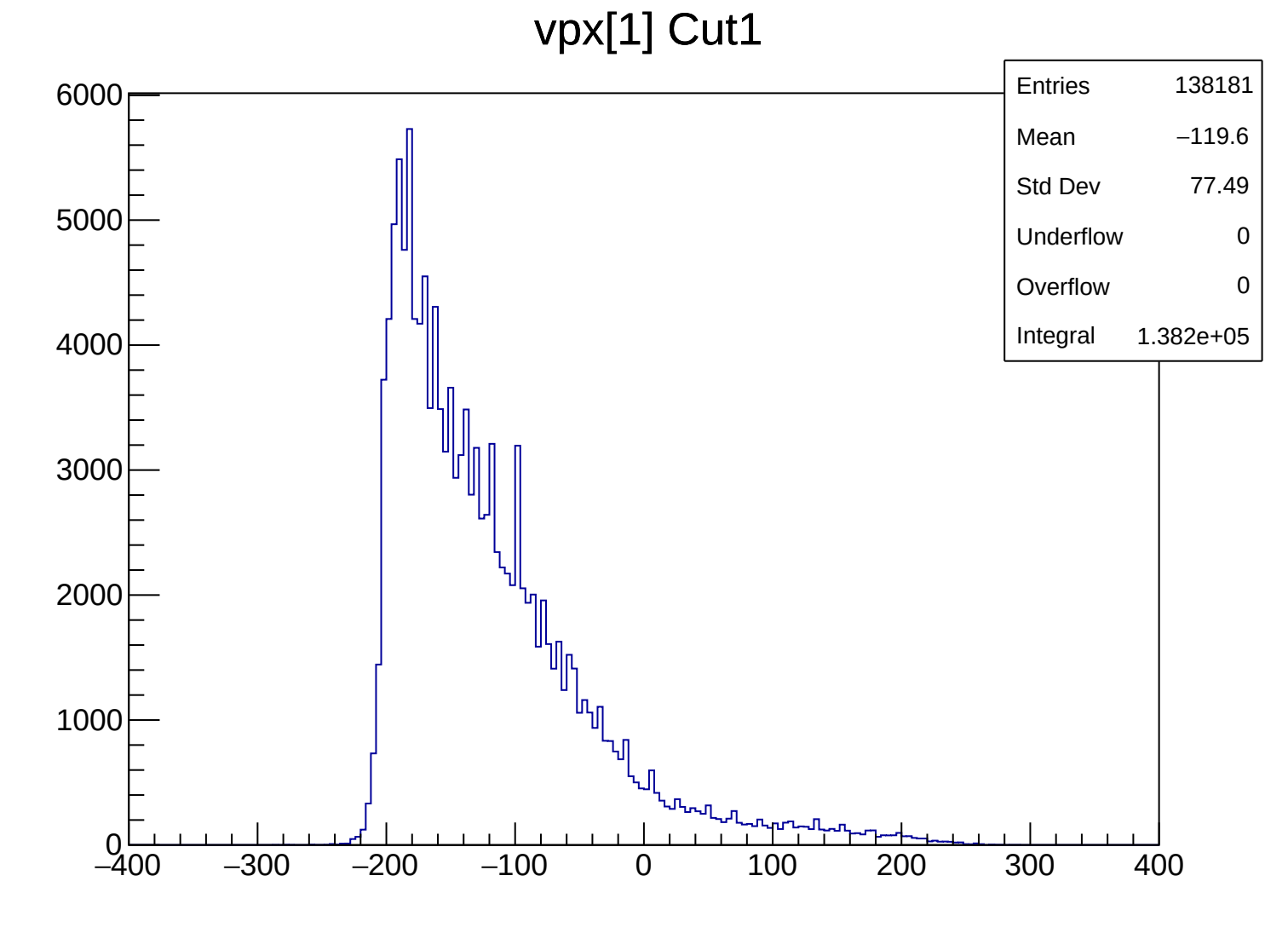
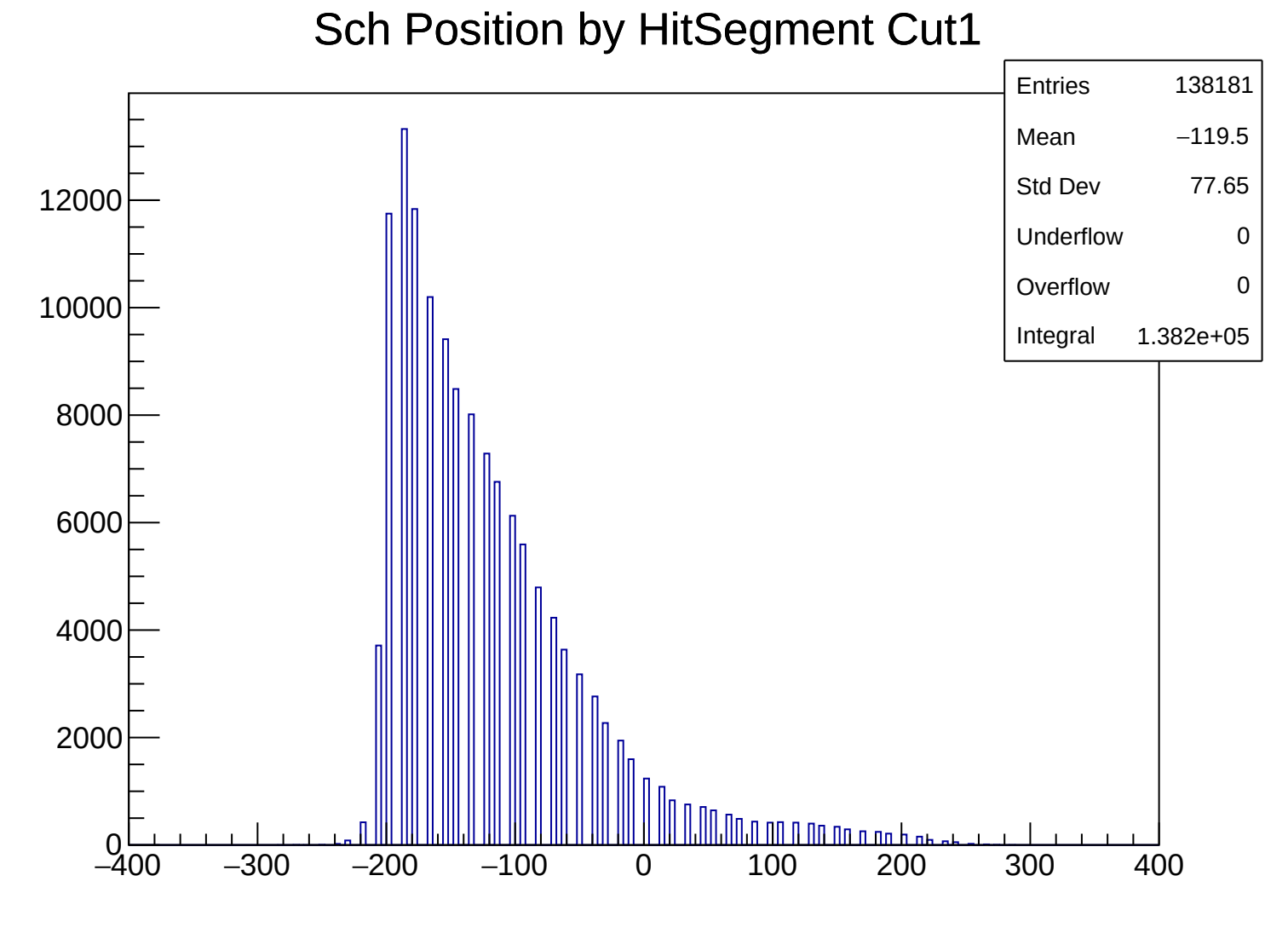
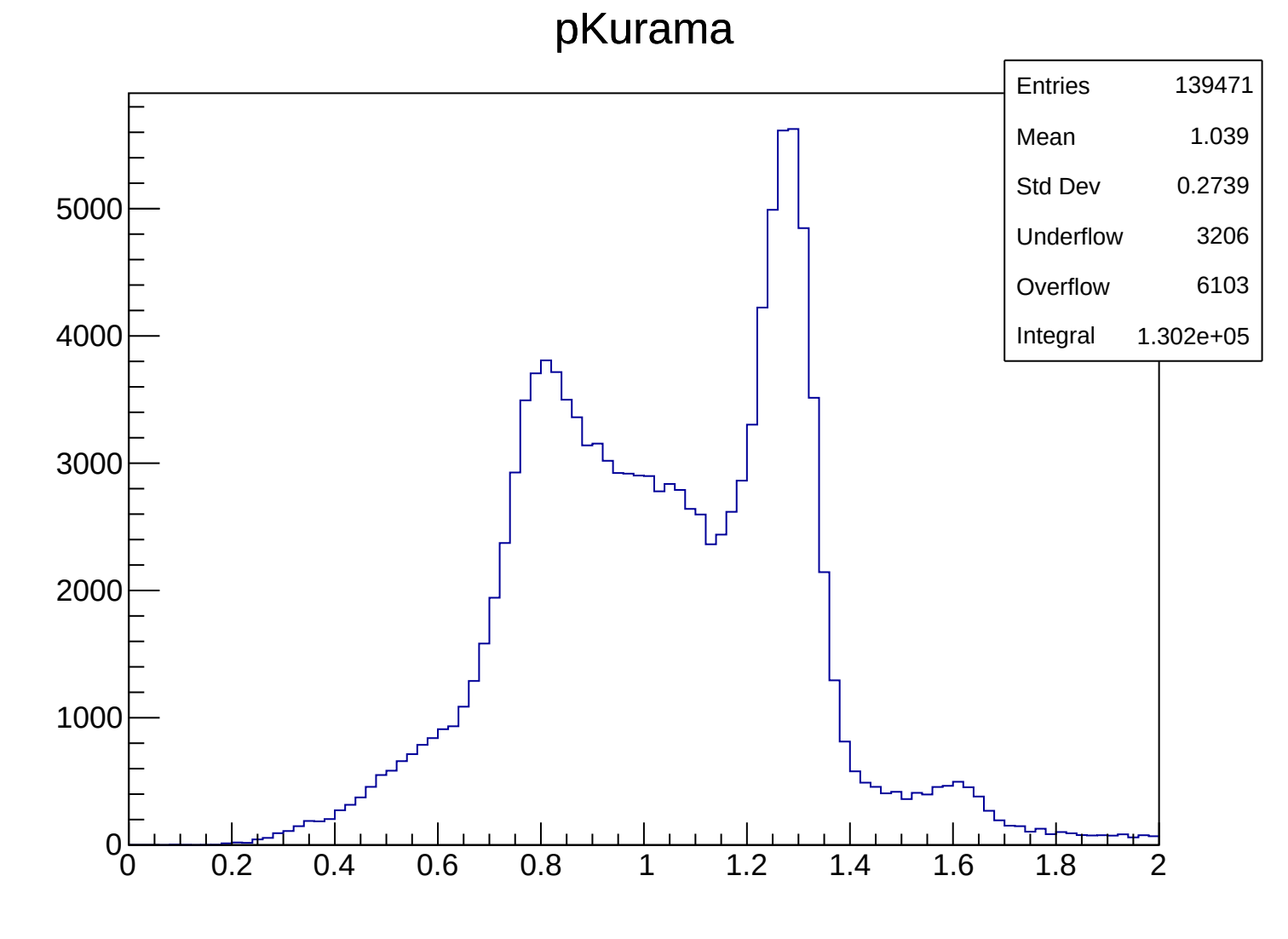

vpx[1]
Entries 184562
Mean −120.3
Std Dev 80.09
Underflow 4286
Overflow 0
Integral 1.803e+05
7000
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

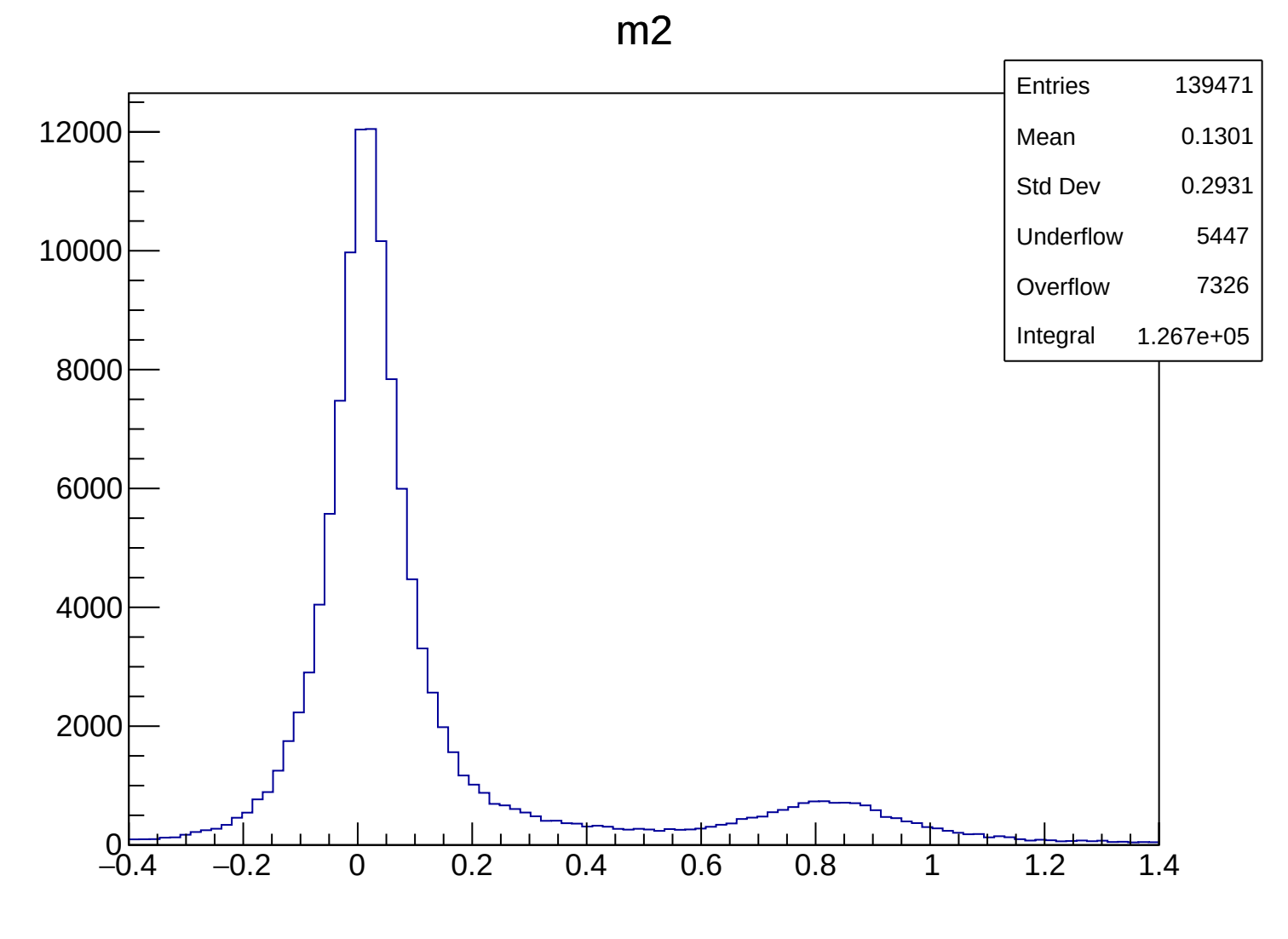

Sch Position by HitSegment
Entries 184562
Mean −129.9
Std Dev 90.51
Underflow 4286
Overflow 0
Integral 1.803e+05
14000
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

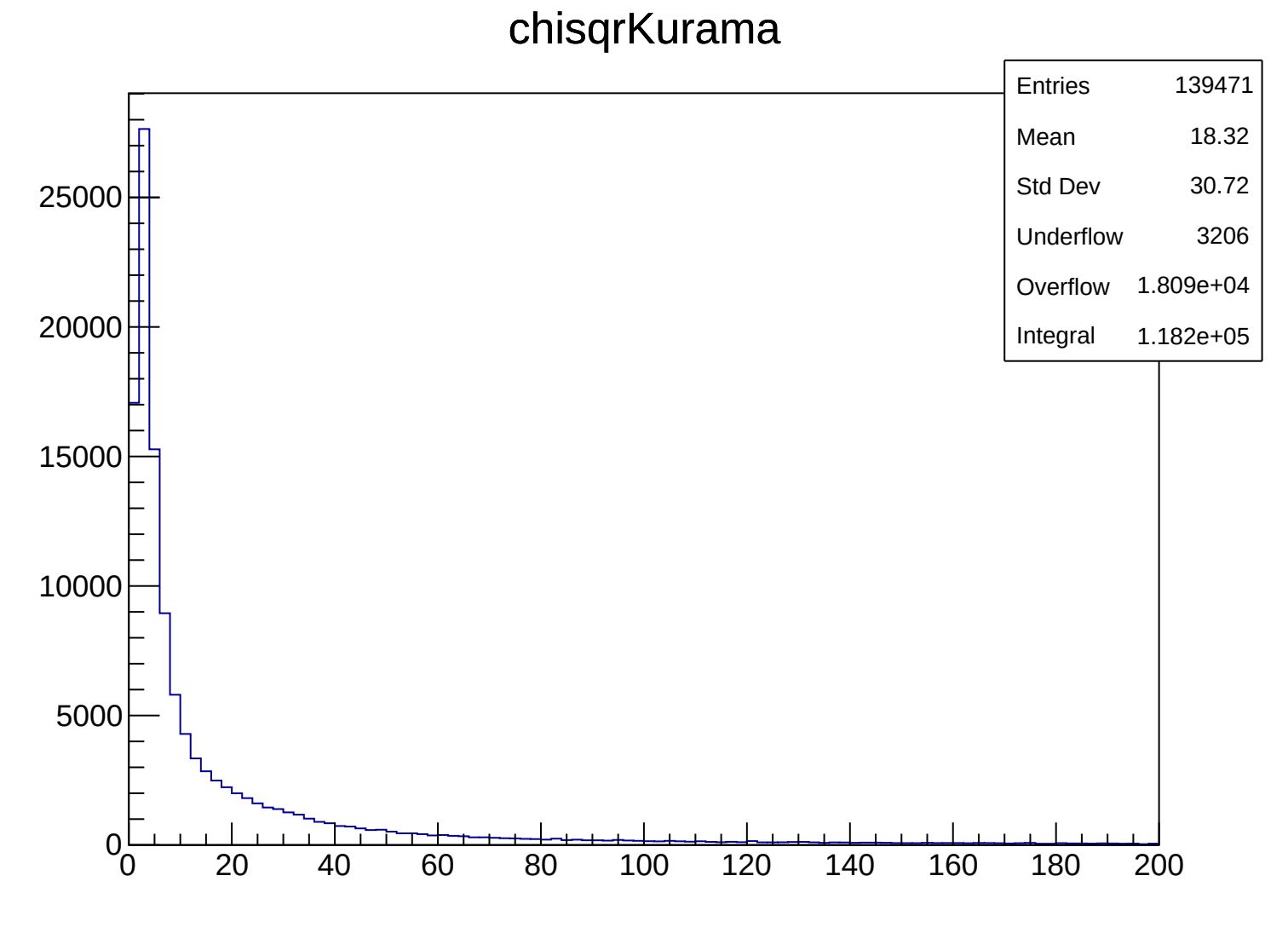

delta_x
Entries 184562
Mean 2.406
Std Dev 20.28
Underflow 7992
Overflow 1.174e+04
Integral 1.648e+05
12000
10000
8000
6000
4000
2000
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

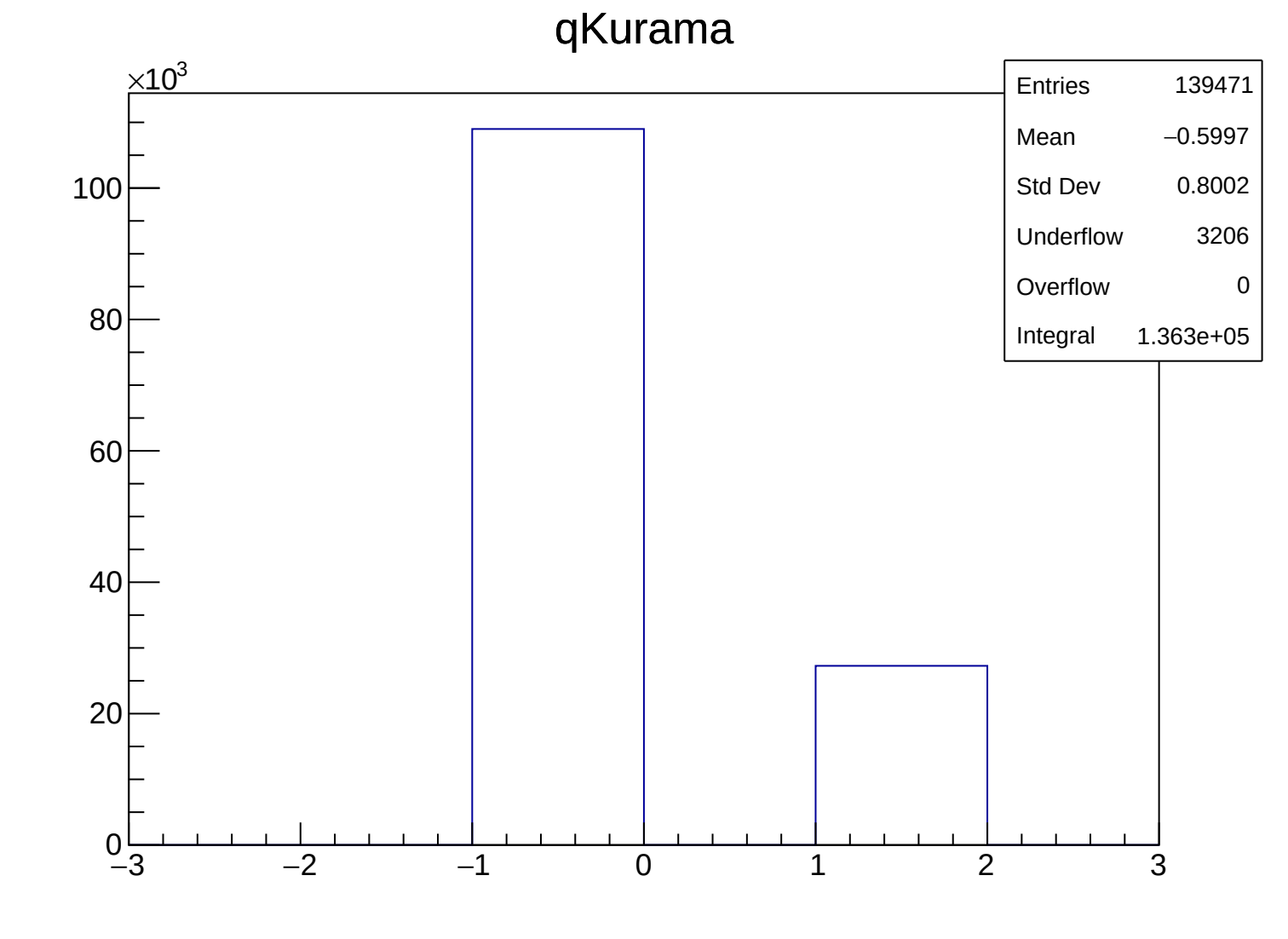

vpx[1] Cut1
Entries 138181
Mean −119.6
Std Dev 77.49
Underflow 0
Overflow 0
Integral 1.382e+05
6000
5000
4000
3000
2000
1000
0
−400
−300
−200
−100
0
100
200
300
400

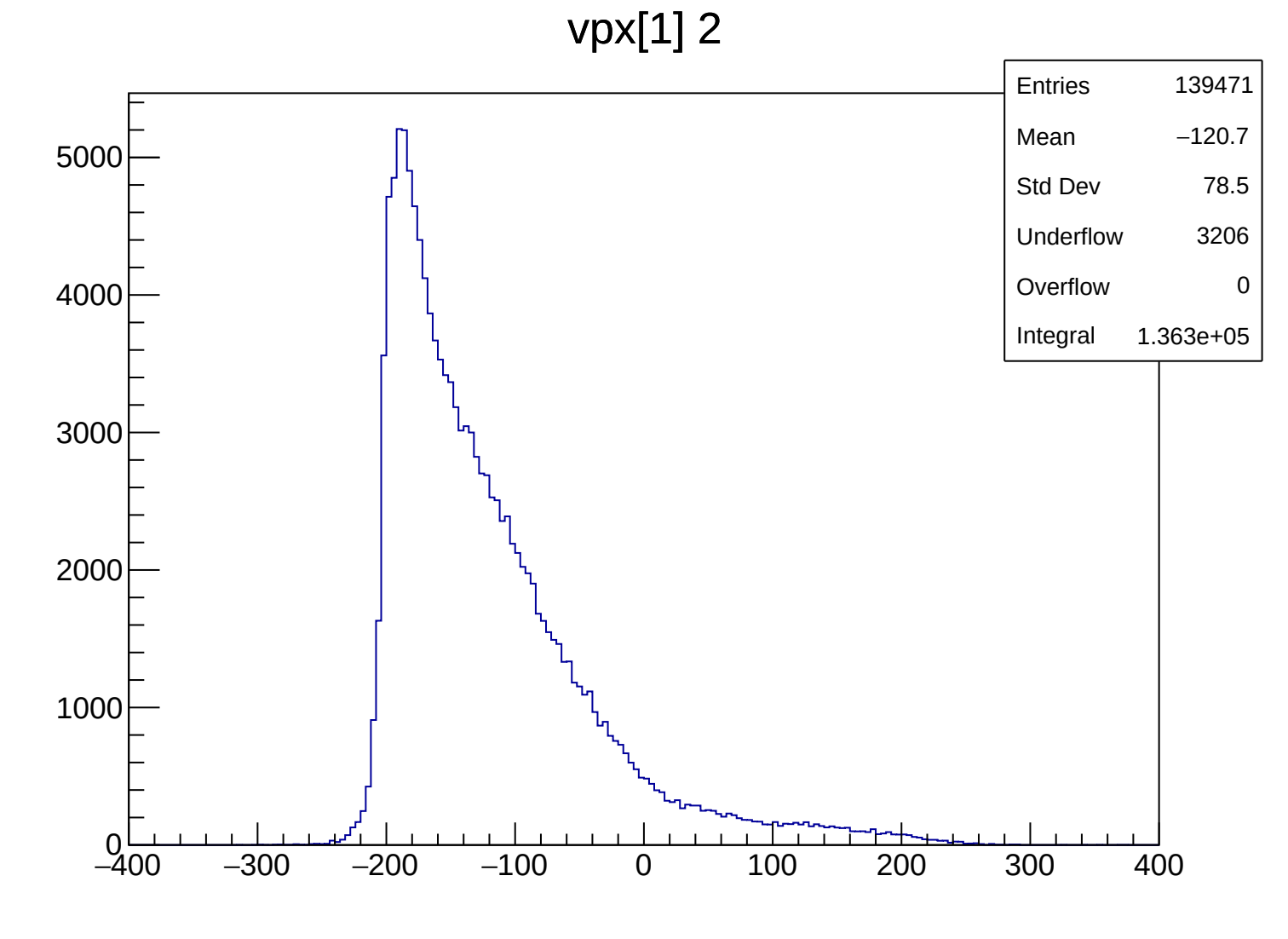

Sch Position by HitSegment Cut1
Entries 138181
Mean −119.5
Std Dev 77.65
Underflow 0
Overflow 0
Integral 1.382e+05
12000
10000
8000
6000
4000
2000
0
−400
−300
−200
−100
0
100
200
300
400

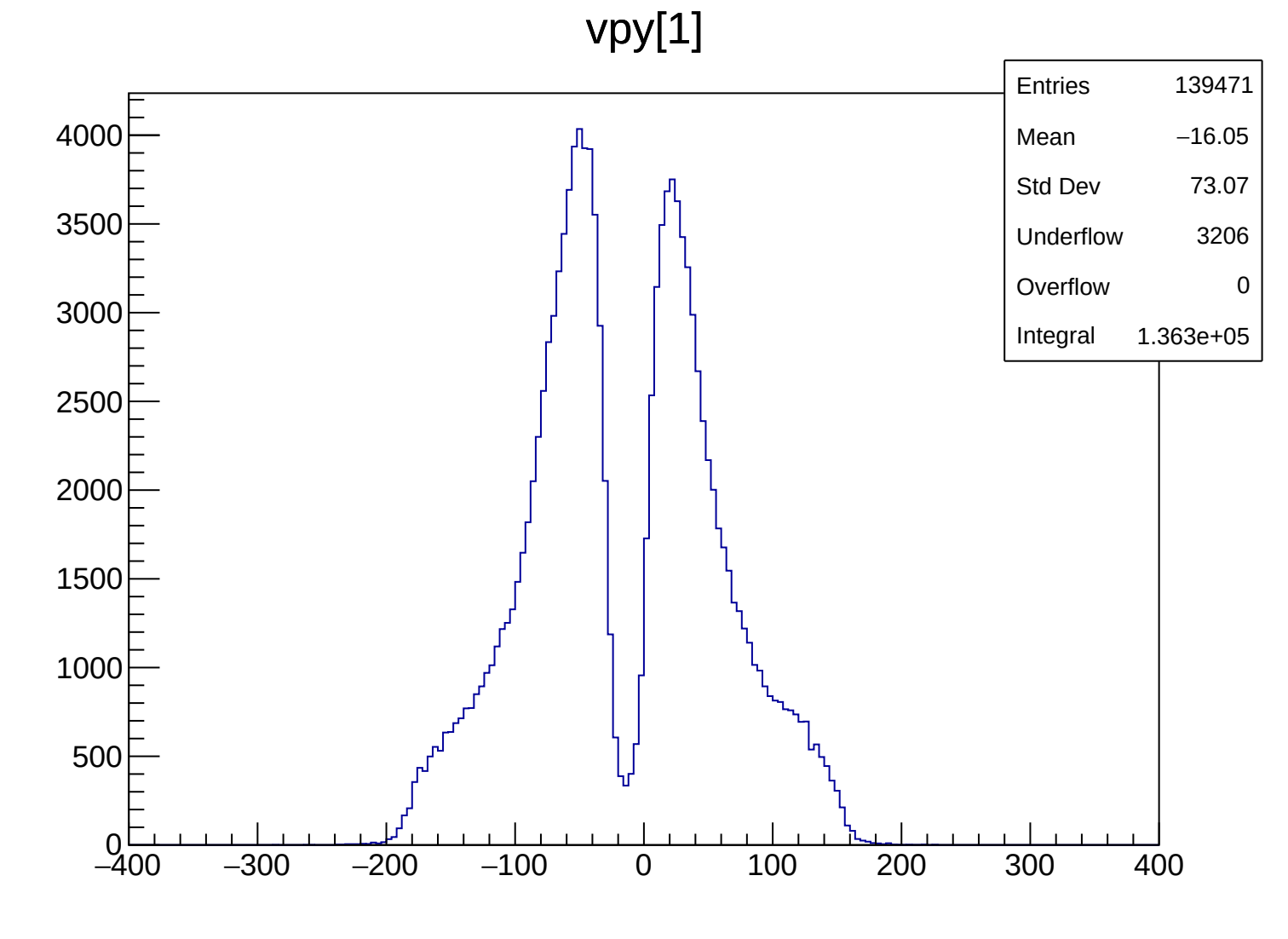

pKurama
Entries 139471
Mean 1.039
Std Dev 0.2739
Underflow 3206
Overflow 6103
Integral 1.302e+05
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

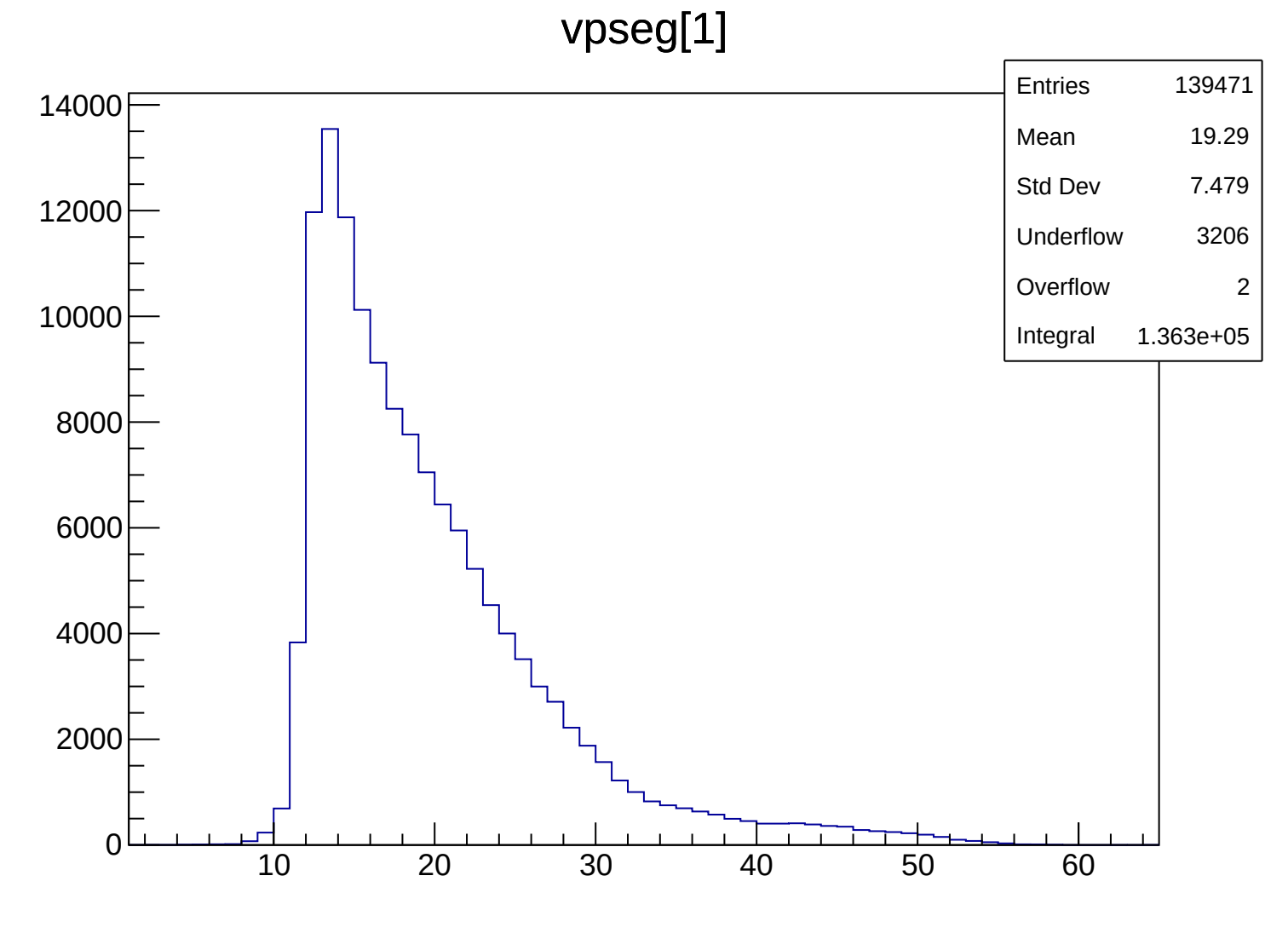

m2
Entries 139471
Mean 0.1301
Std Dev 0.2931
Underflow 5447
Overflow 7326
Integral 1.267e+05
12000
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

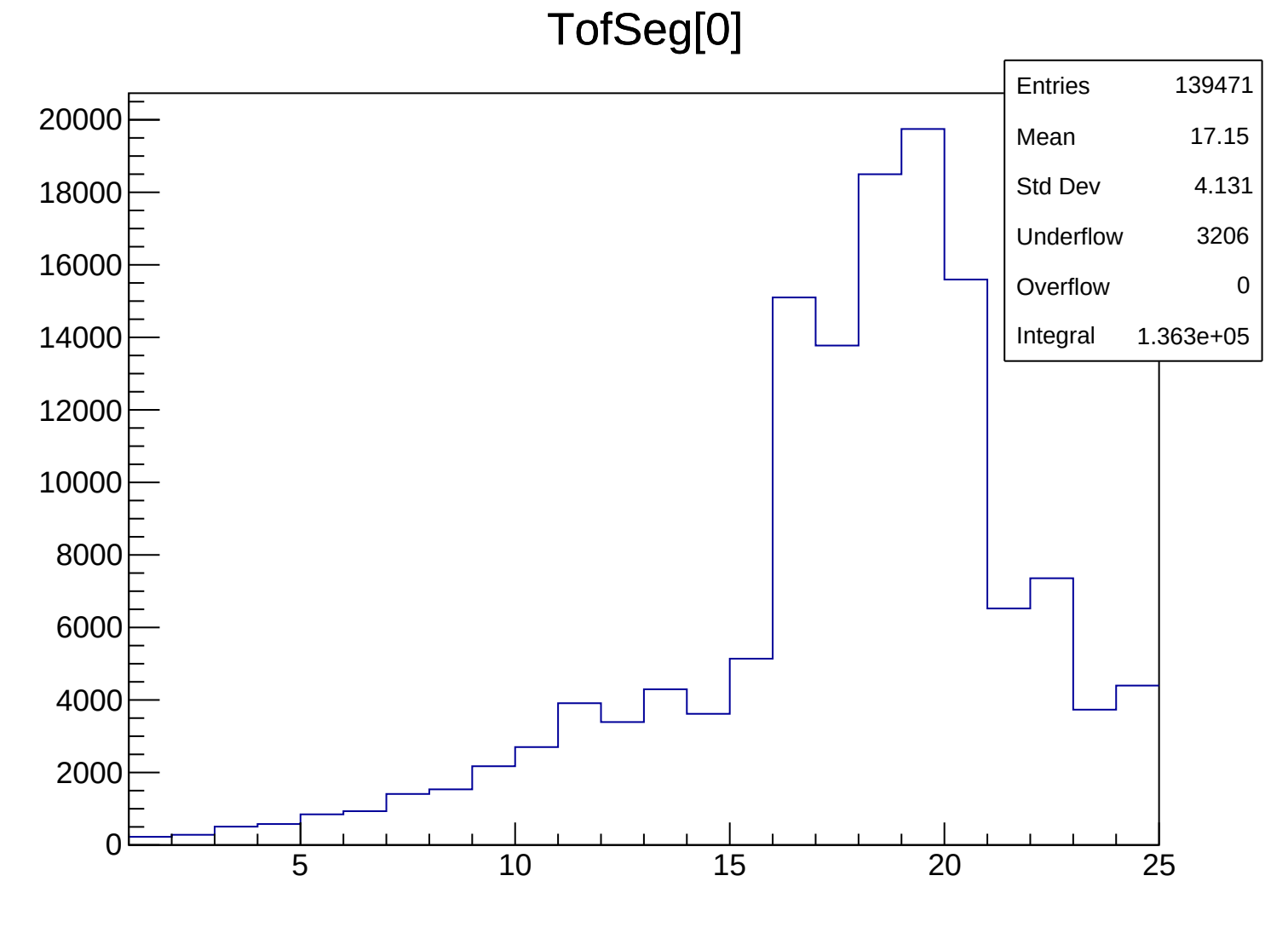

chisqrKurama
Entries 139471
Mean 18.32
Std Dev 30.72
Underflow 3206
Overflow 1.809e+04
Integral 1.182e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

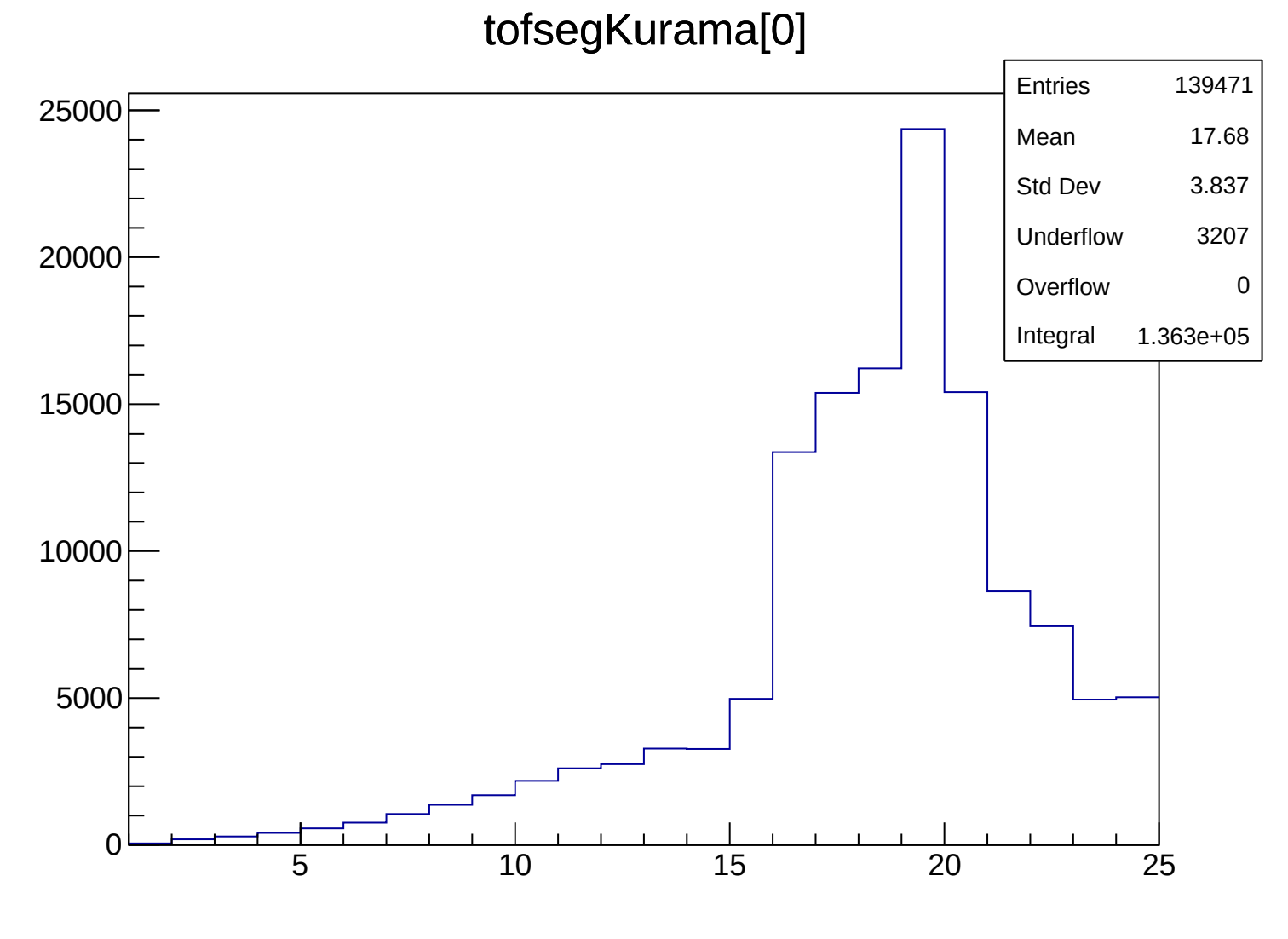

qKurama
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 139471
Mean −0.5997
Std Dev 0.8002
Underflow 3206
Overflow 0
Integral 1.363e+05

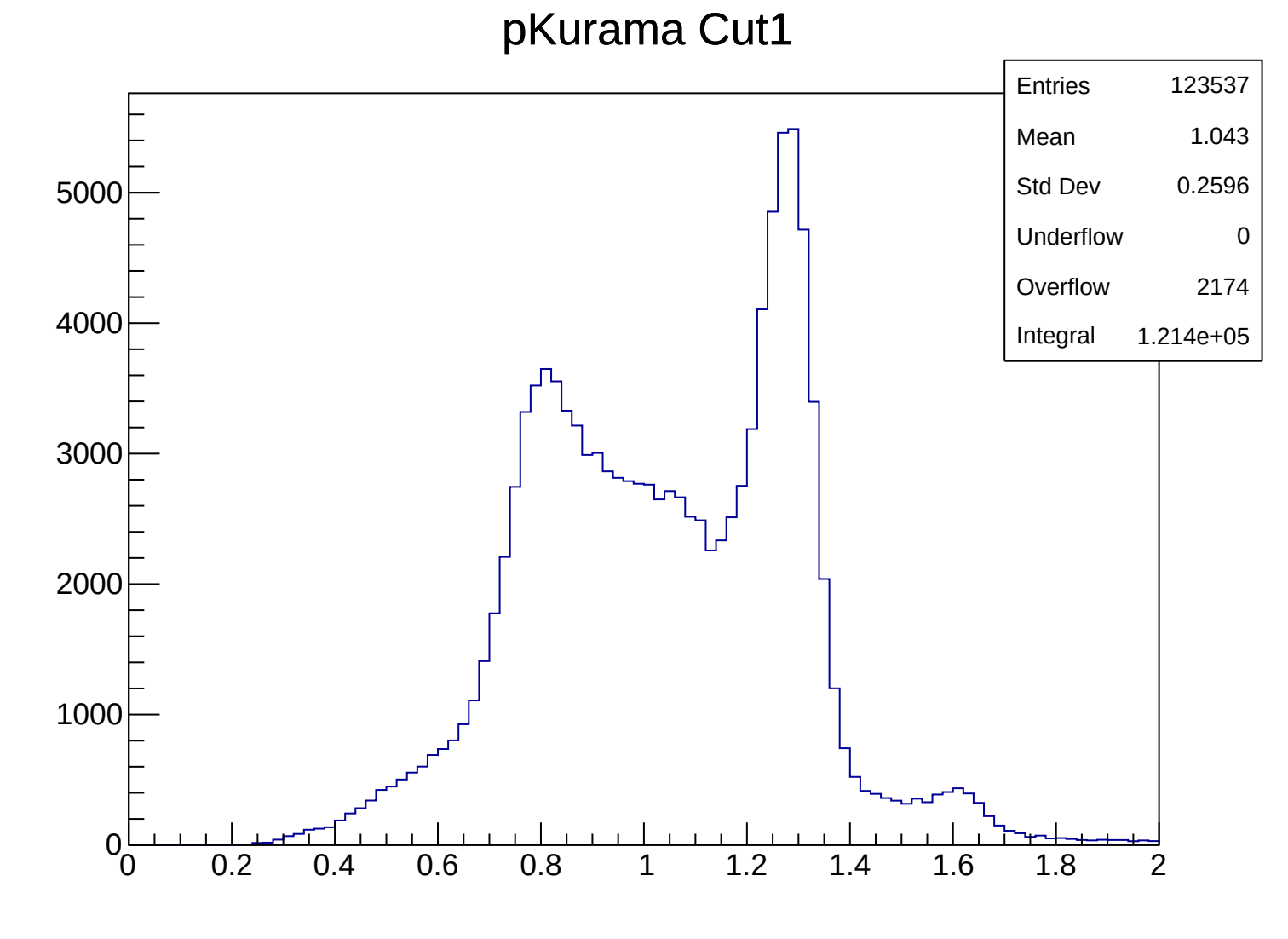

vpx[1] 2
Entries 139471
Mean –120.7
Std Dev 78.5
Underflow 3206
Overflow 0
Integral 1.363e+05
5000
4000
3000
2000
1000
0
–400
–300
–200
–100
0
100
200
300
400

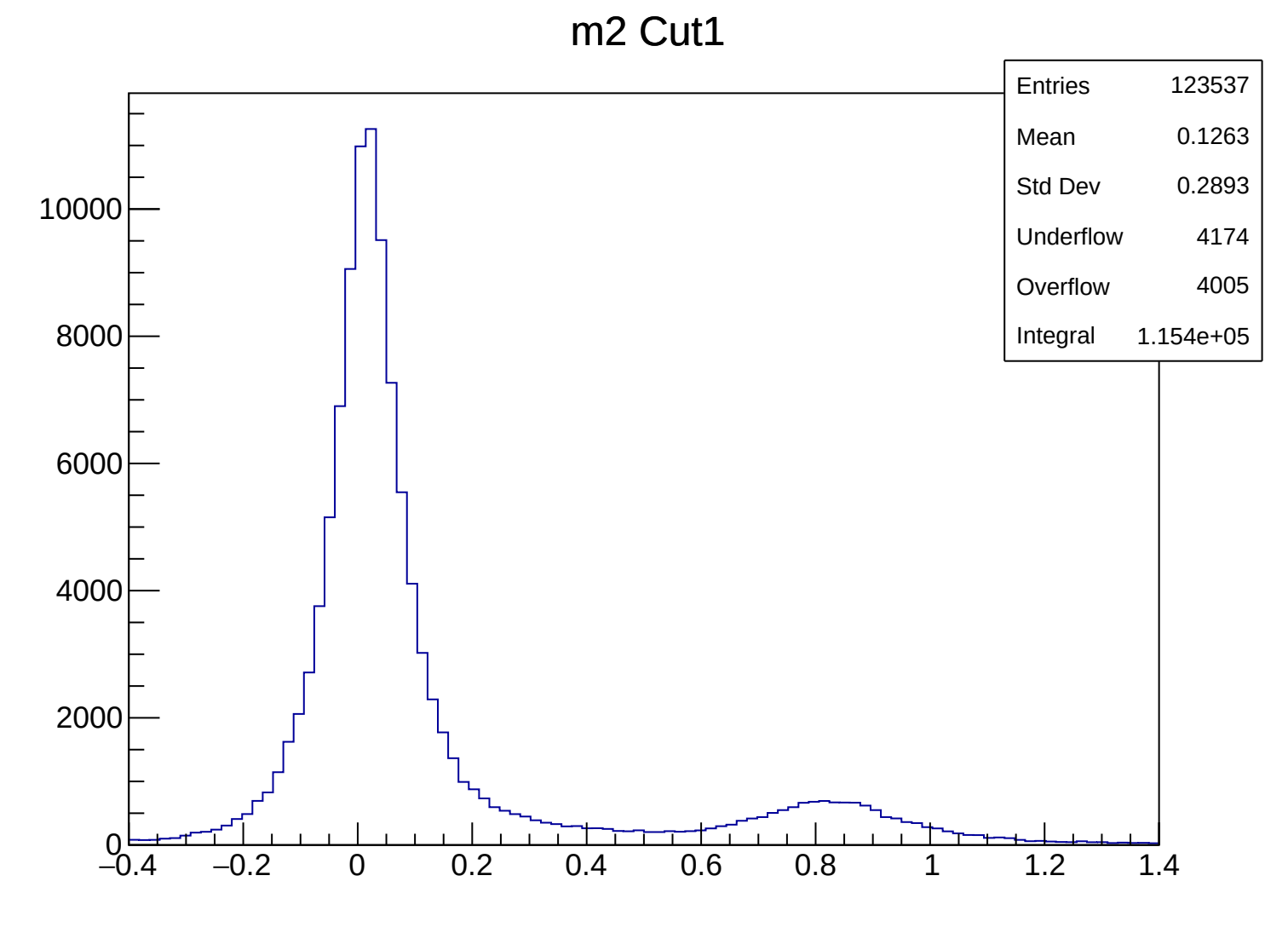

vpy[1]
Entries 139471
Mean −16.05
Std Dev 73.07
Underflow 3206
Overflow 0
Integral 1.363e+05
4000
3500
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

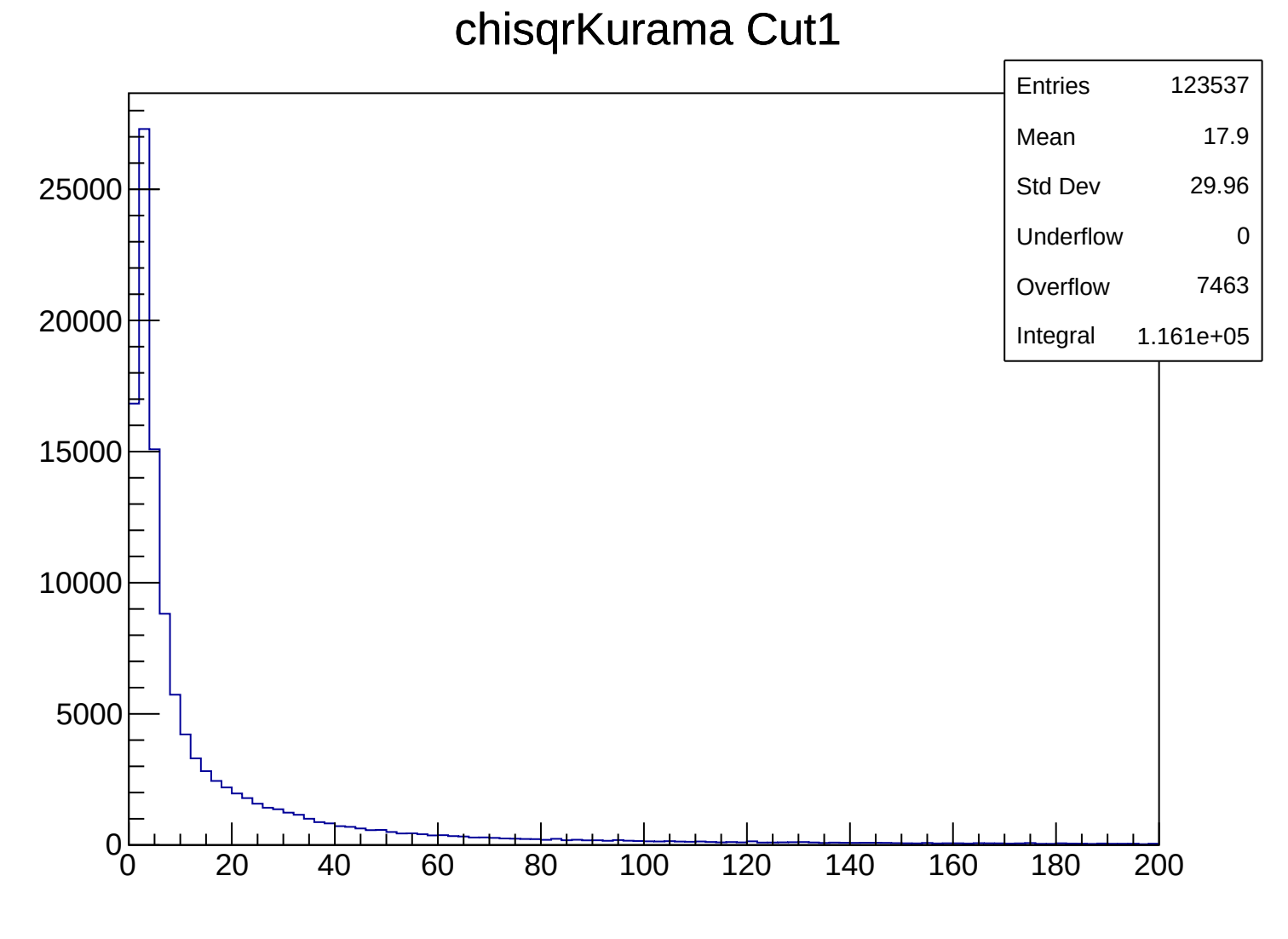

vpseg[1]
Entries 139471
Mean 19.29
Std Dev 7.479
Underflow 3206
Overflow 2
Integral 1.363e+05
14000
12000
10000
8000
6000
4000
2000
0
10
20
30
40
50
60

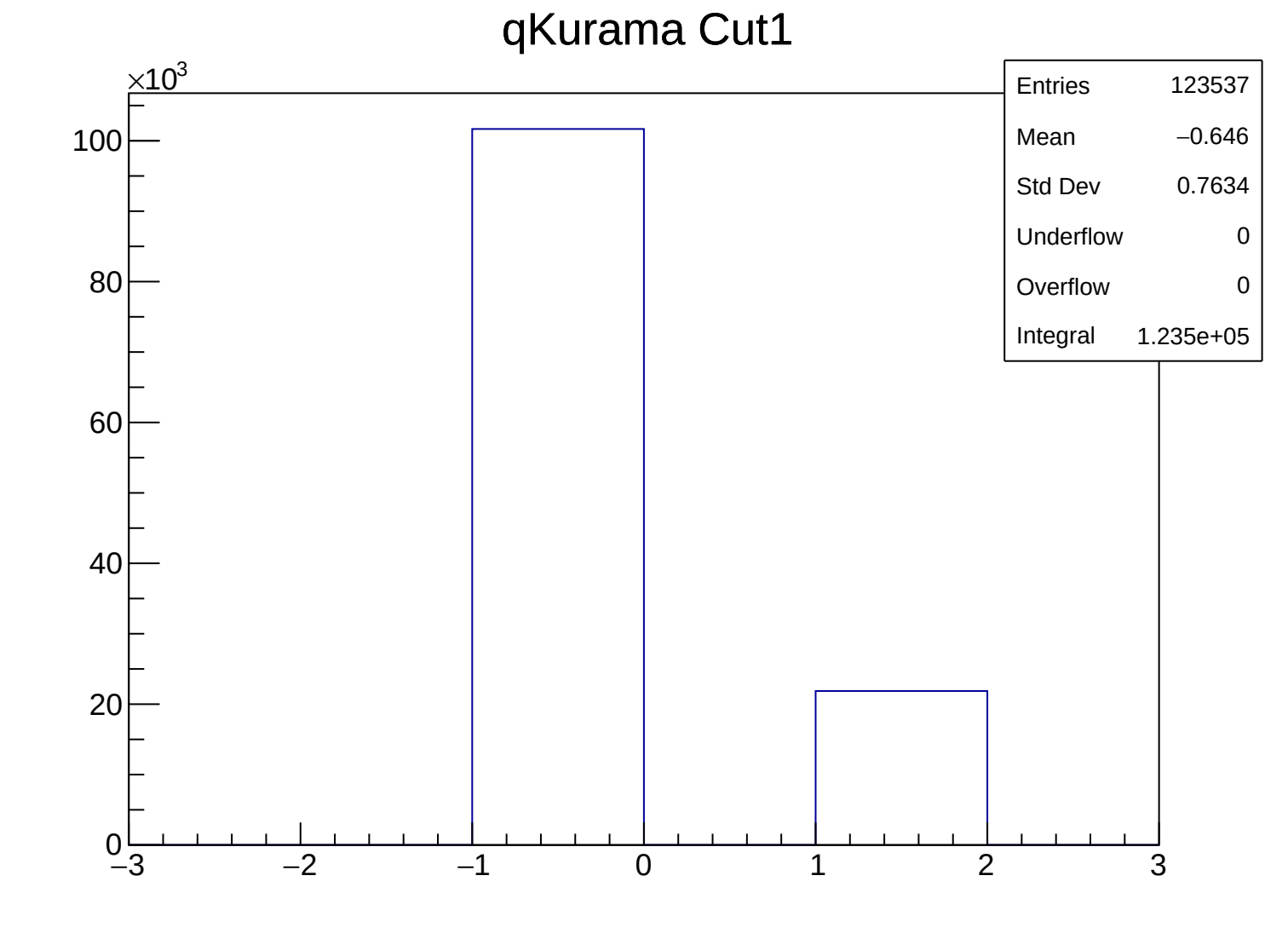

TofSeg[0]
Entries 139471
Mean 17.15
Std Dev 4.131
Underflow 3206
Overflow 0
Integral 1.363e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

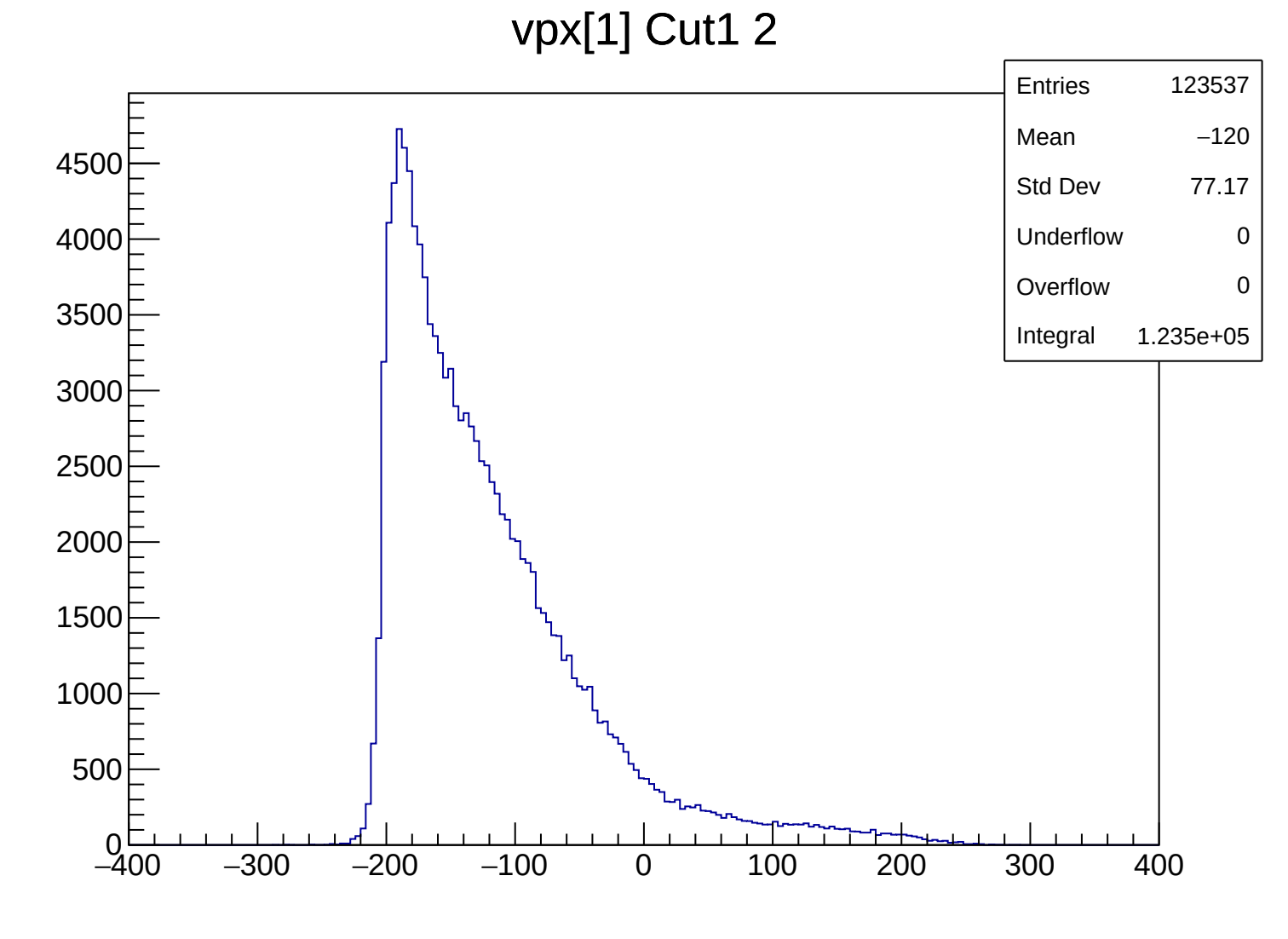

tofsegKurama[0]
Entries 139471
Mean 17.68
Std Dev 3.837
Underflow 3207
Overflow 0
Integral 1.363e+05
25000
20000
15000
10000
5000
0
5
10
15
20
25

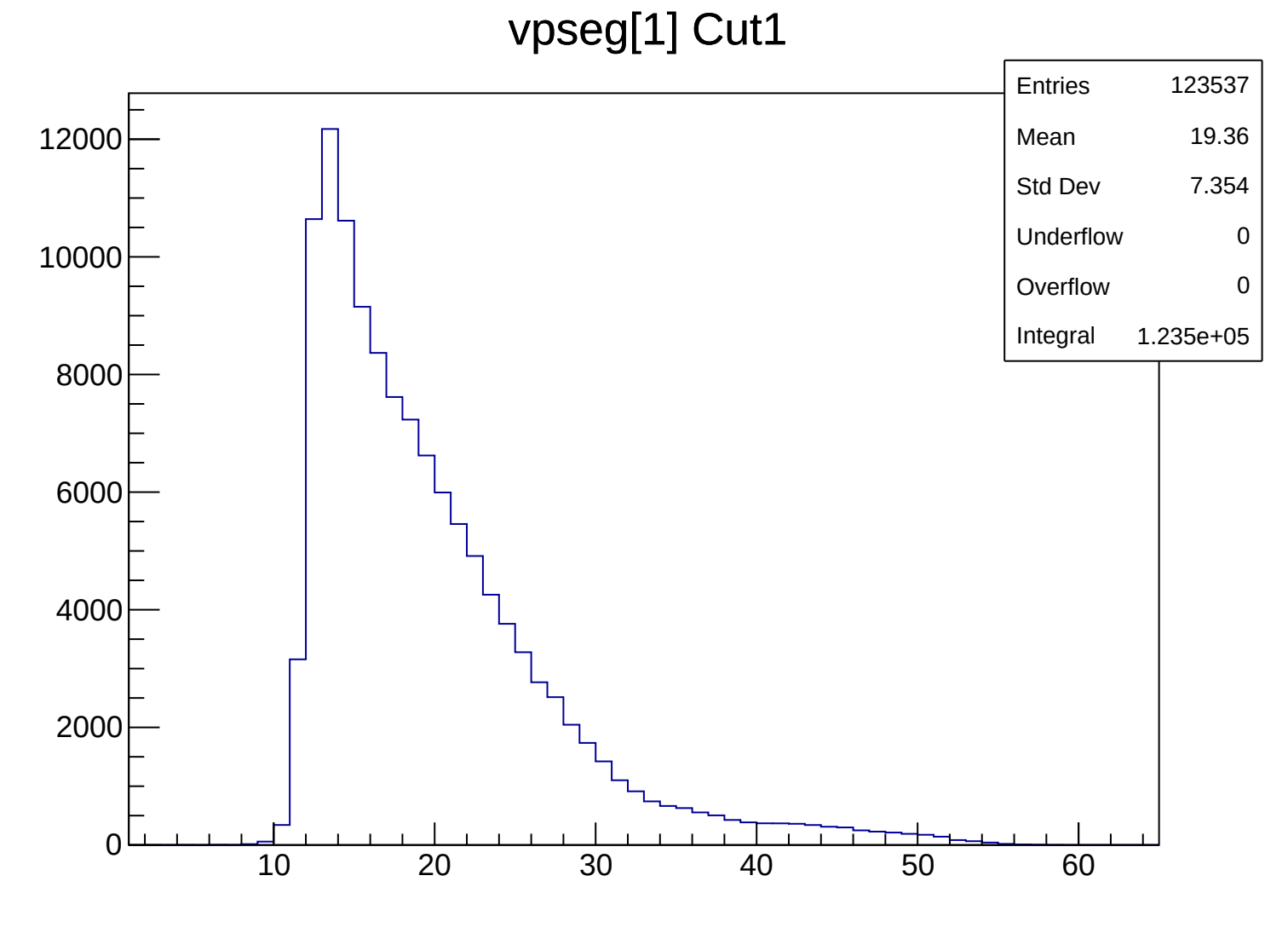

pKurama Cut1
Entries 123537
Mean 1.043
Std Dev 0.2596
Underflow 0
Overflow 2174
Integral 1.214e+05
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

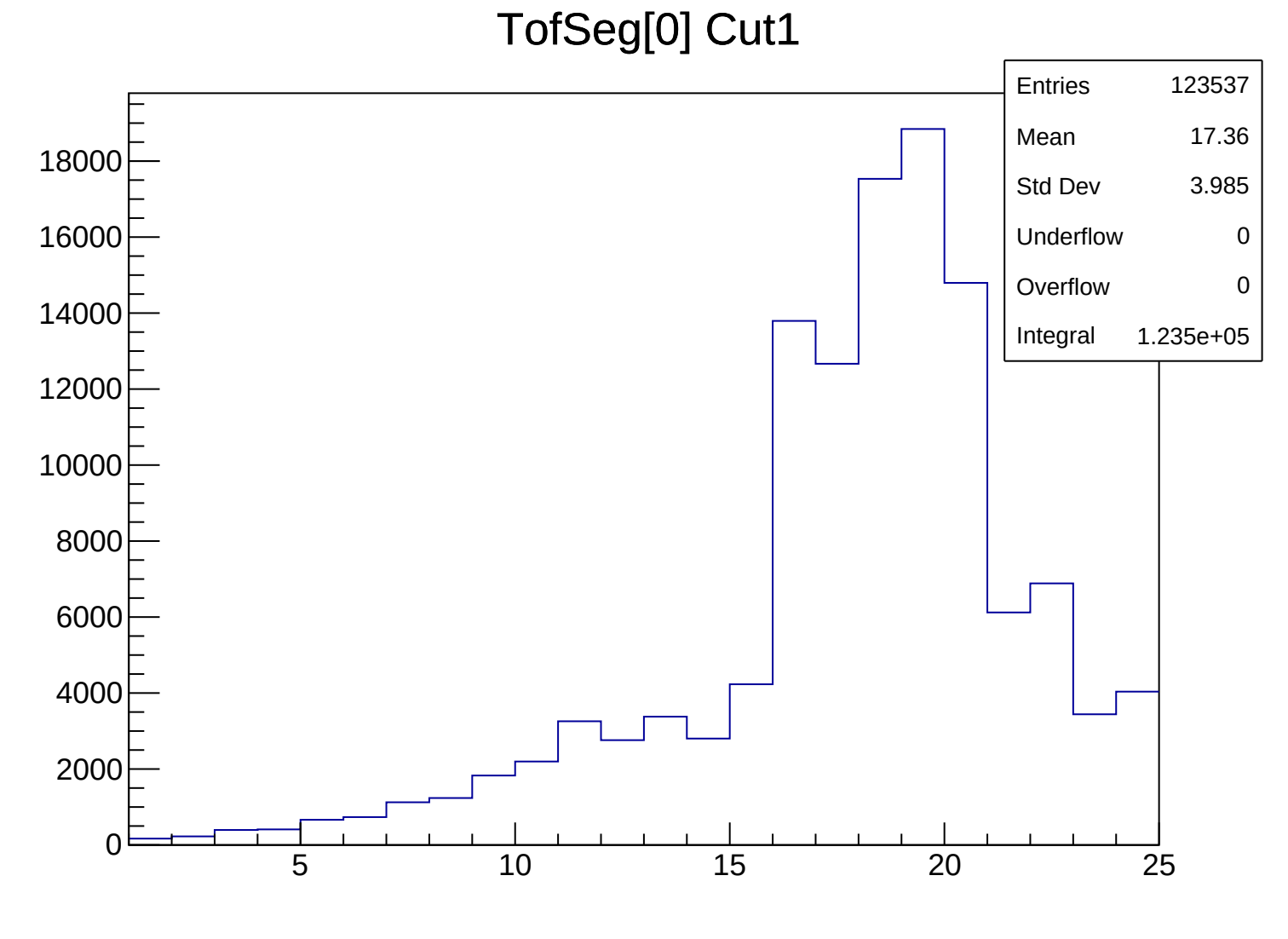

m2 Cut1
Entries 123537
Mean 0.1263
Std Dev 0.2893
Underflow 4174
Overflow 4005
Integral 1.154e+05
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

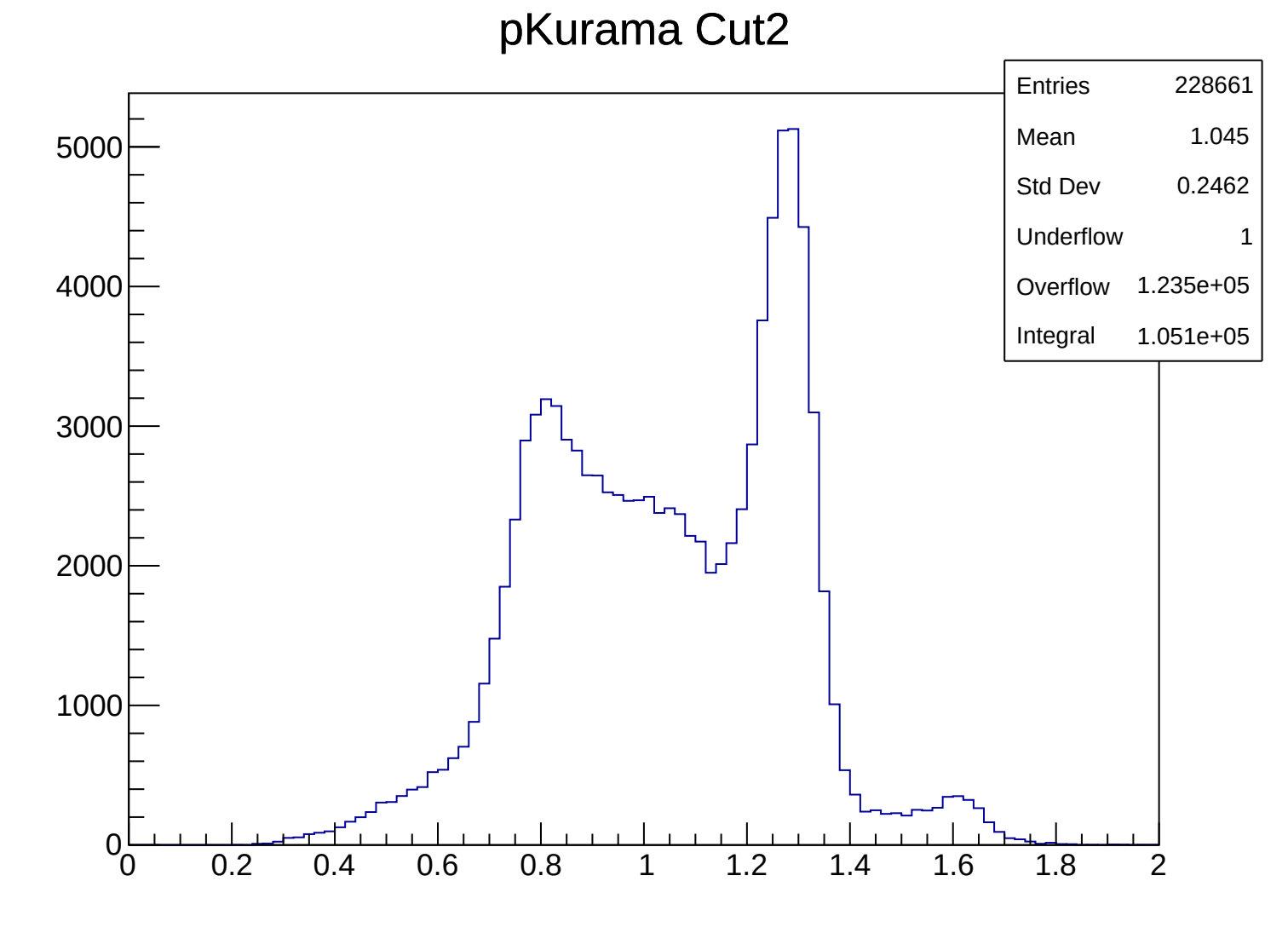

chisqrKurama Cut1
Entries 123537
Mean 17.9
Std Dev 29.96
Underflow 0
Overflow 7463
Integral 1.161e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

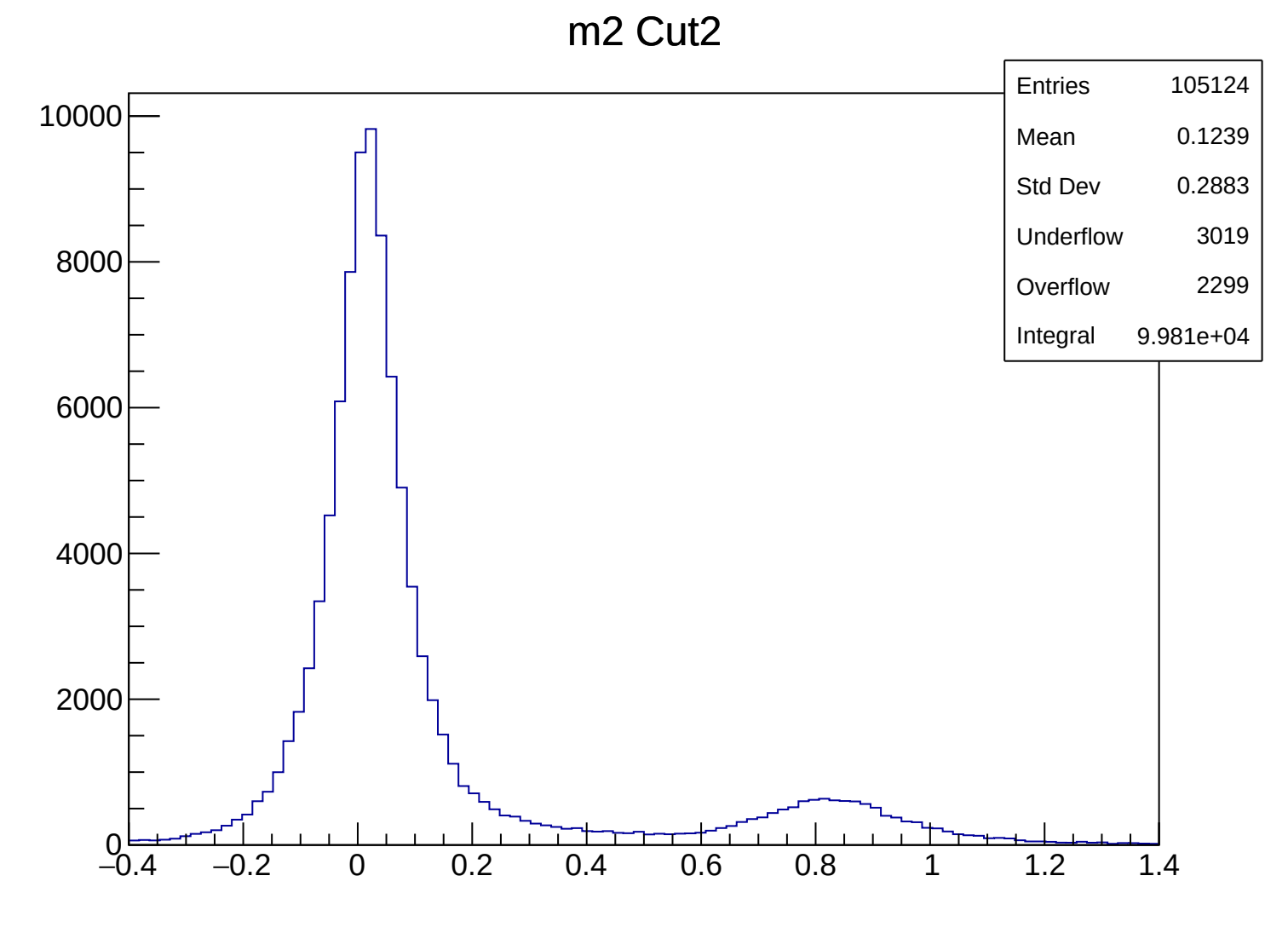

qKurama Cut1
×10^3
100
80
60
40
20
0
−3
−2
−1
0
1
2
3
Entries 123537
Mean −0.646
Std Dev 0.7634
Underflow 0
Overflow 0
Integral 1.235e+05

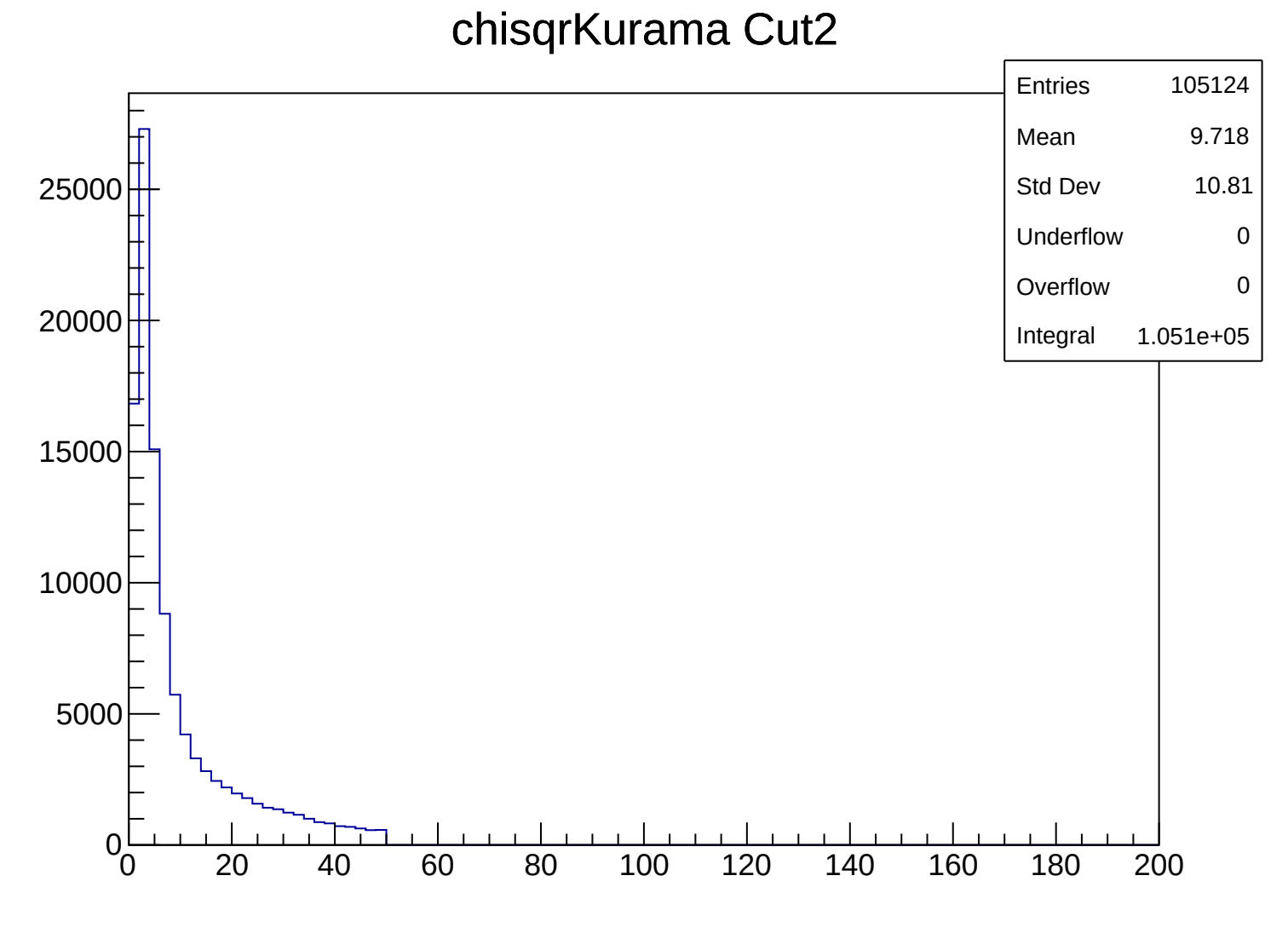

vpx[1] Cut1 2
Entries 123537
Mean −120
Std Dev 77.17
Underflow 0
Overflow 0
Integral 1.235e+05
4500
4000
3500
3000
2500
2000
1500
1000
500
0
−400
−300
−200
−100
0
100
200
300
400

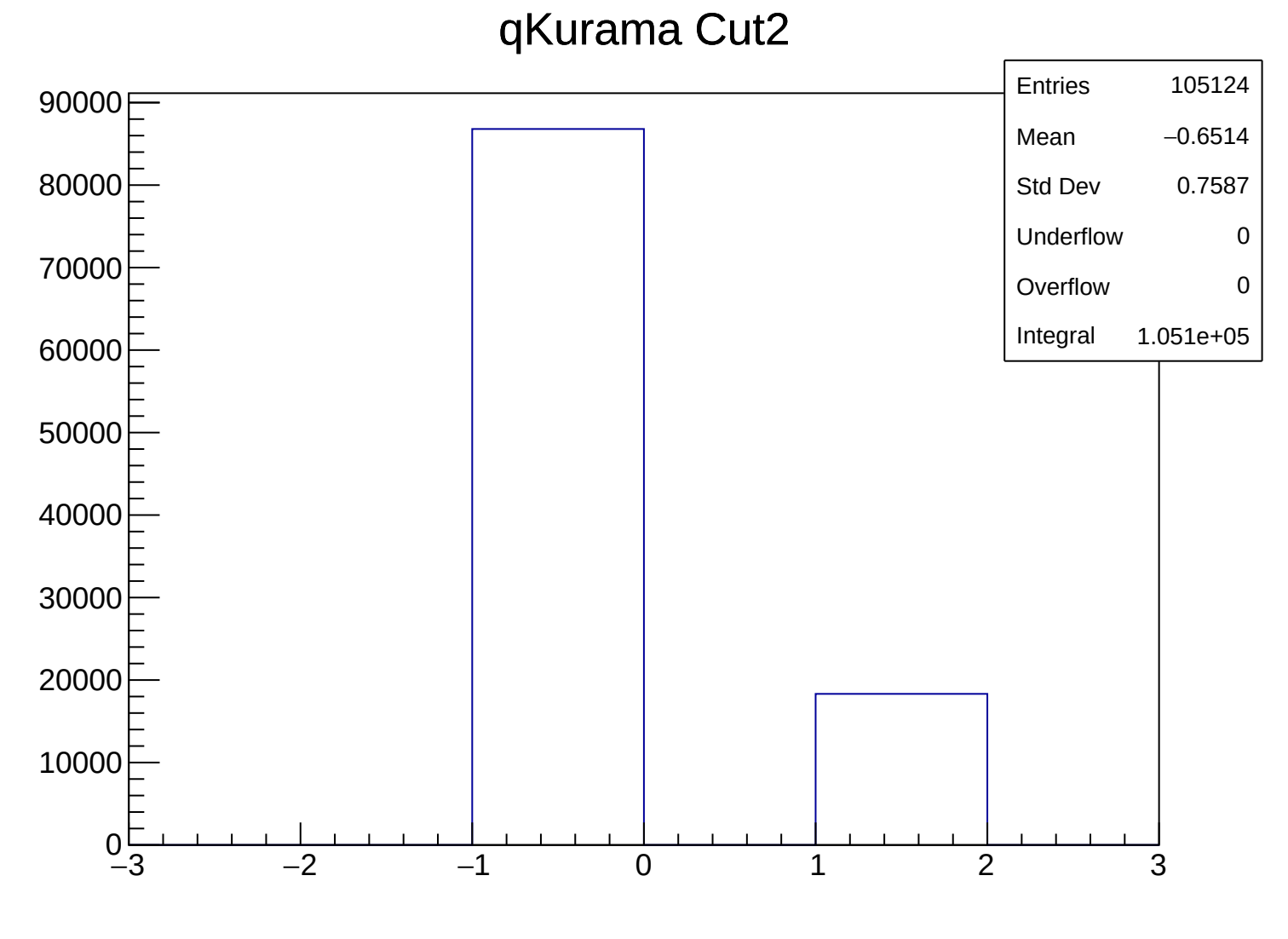

vpseg[1] Cut1
Entries 123537
Mean 19.36
Std Dev 7.354
Underflow 0
Overflow 0
Integral 1.235e+05
12000
10000
8000
6000
4000
2000
0
10
20
30
40
50
60

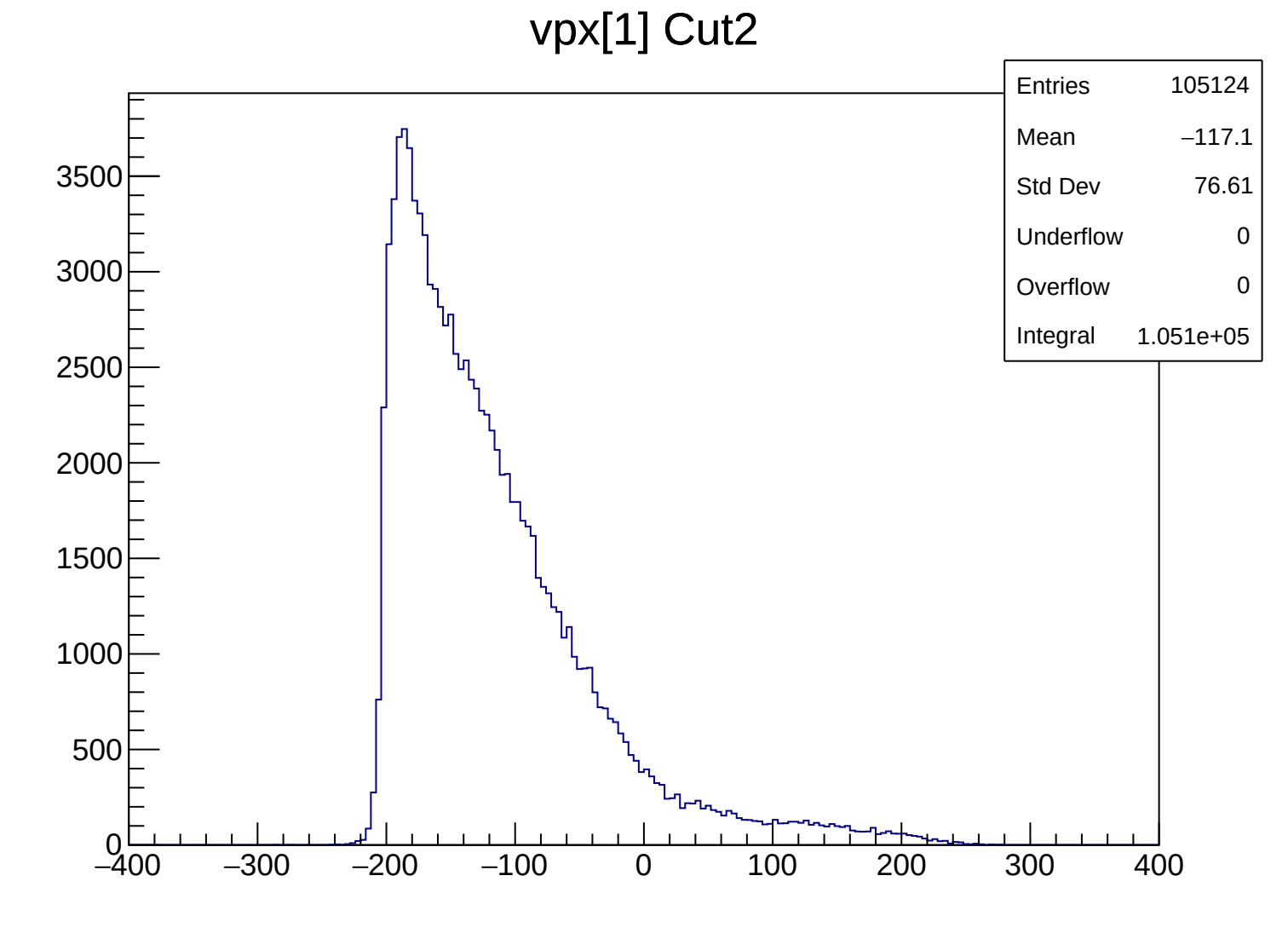

TofSeg[0] Cut1
Entries 123537
Mean 17.36
Std Dev 3.985
Underflow 0
Overflow 0
Integral 1.235e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

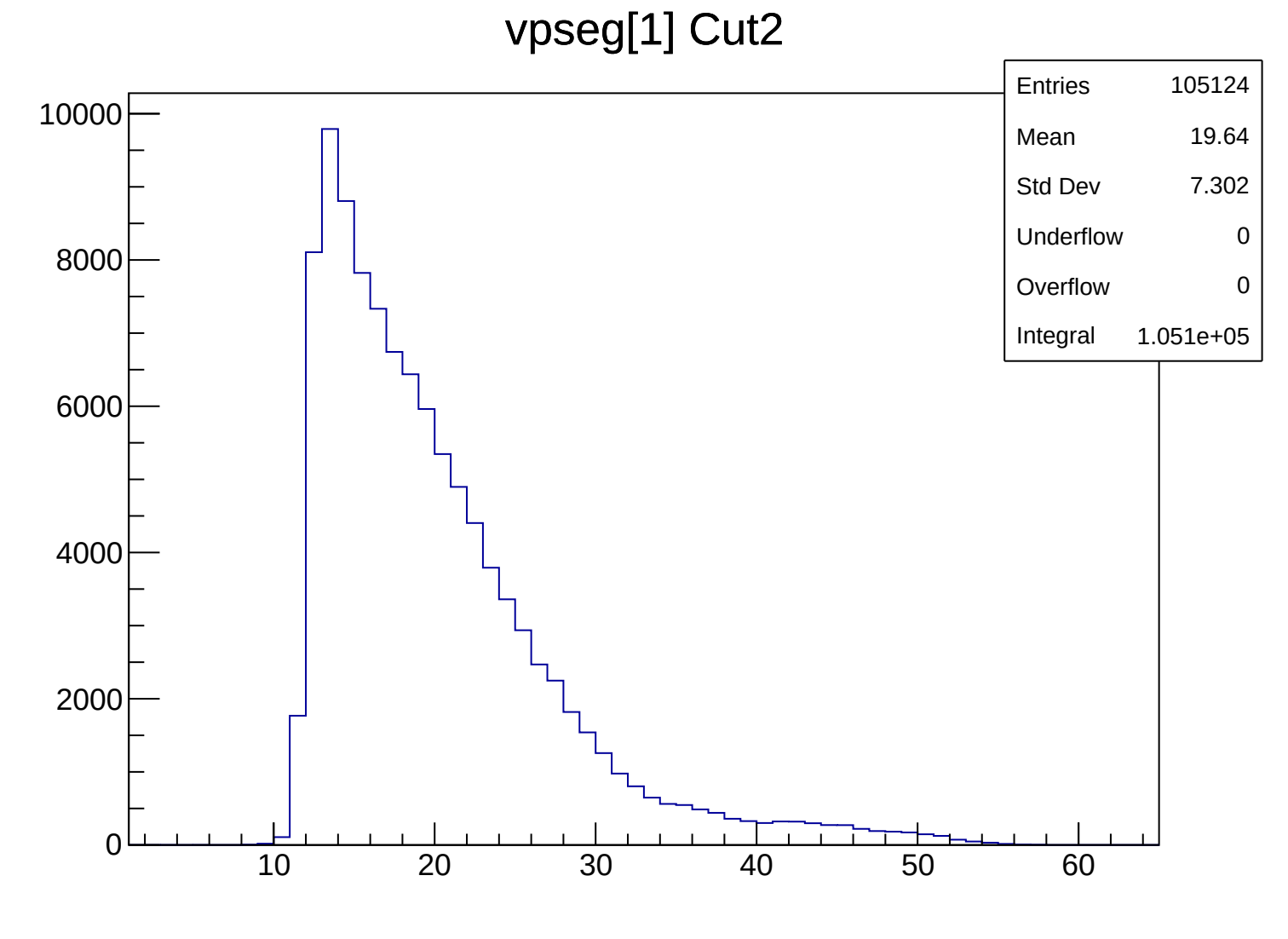

pKurama Cut2
Entries 228661
Mean 1.045
Std Dev 0.2462
Underflow 1
Overflow 1.235e+05
Integral 1.051e+05
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

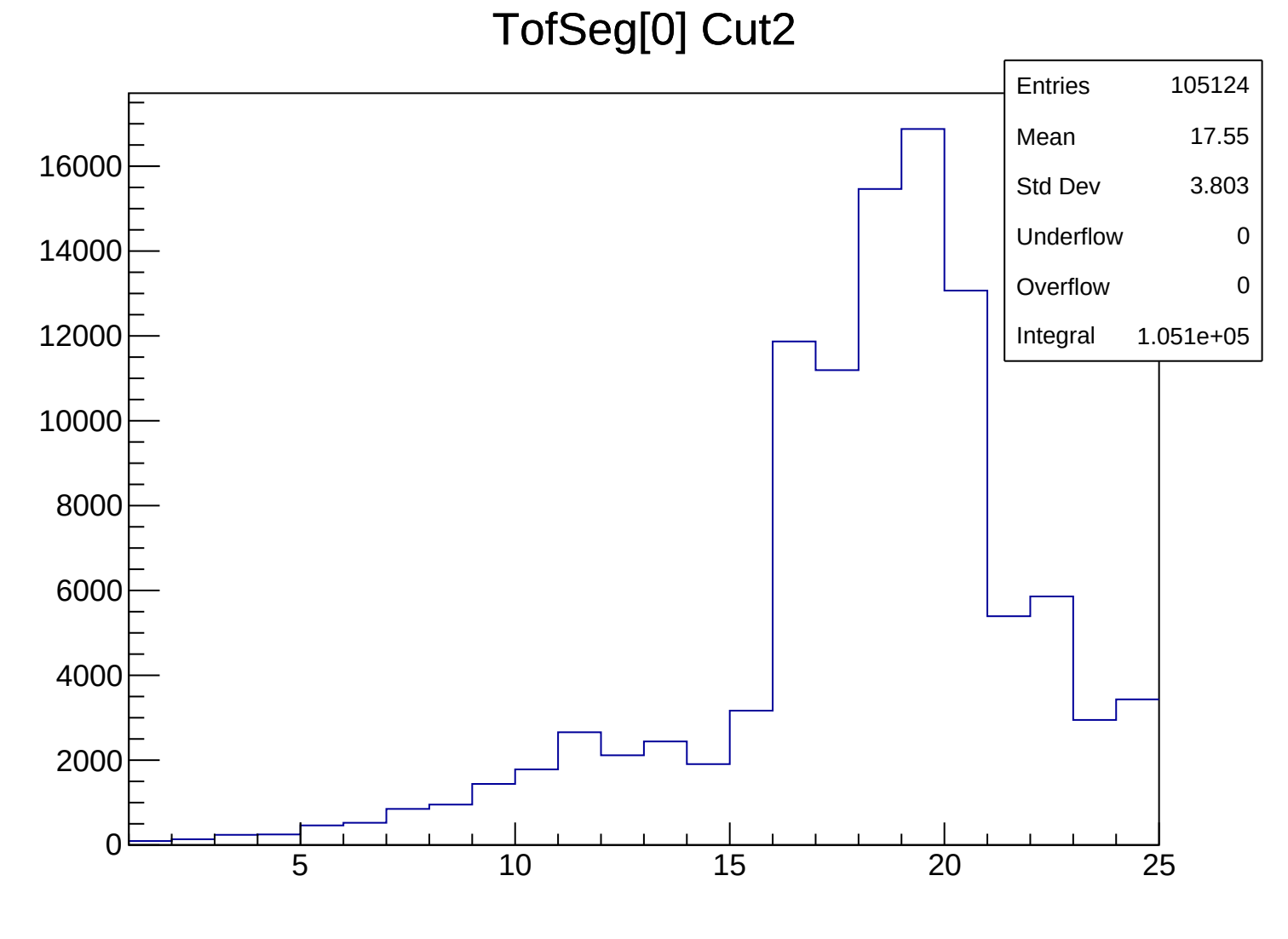

m2 Cut2
Entries 105124
Mean 0.1239
Std Dev 0.2883
Underflow 3019
Overflow 2299
Integral 9.981e+04
10000
8000
6000
4000
2000
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

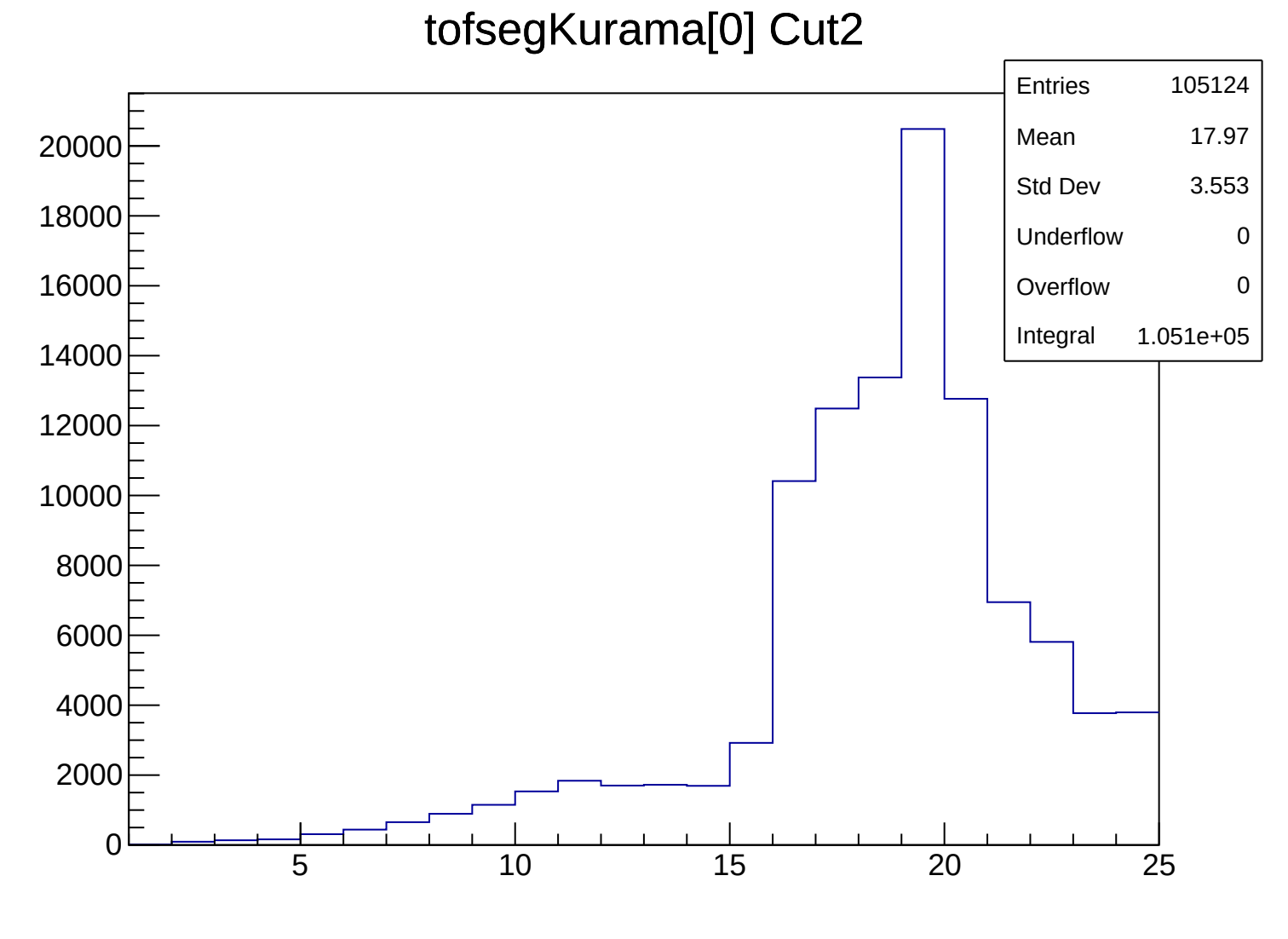

chisqrKurama Cut2
Entries 105124
Mean 9.718
Std Dev 10.81
Underflow 0
Overflow 0
Integral 1.051e+05
25000
20000
15000
10000
5000
0
0
20
40
60
80
100
120
140
160
180
200

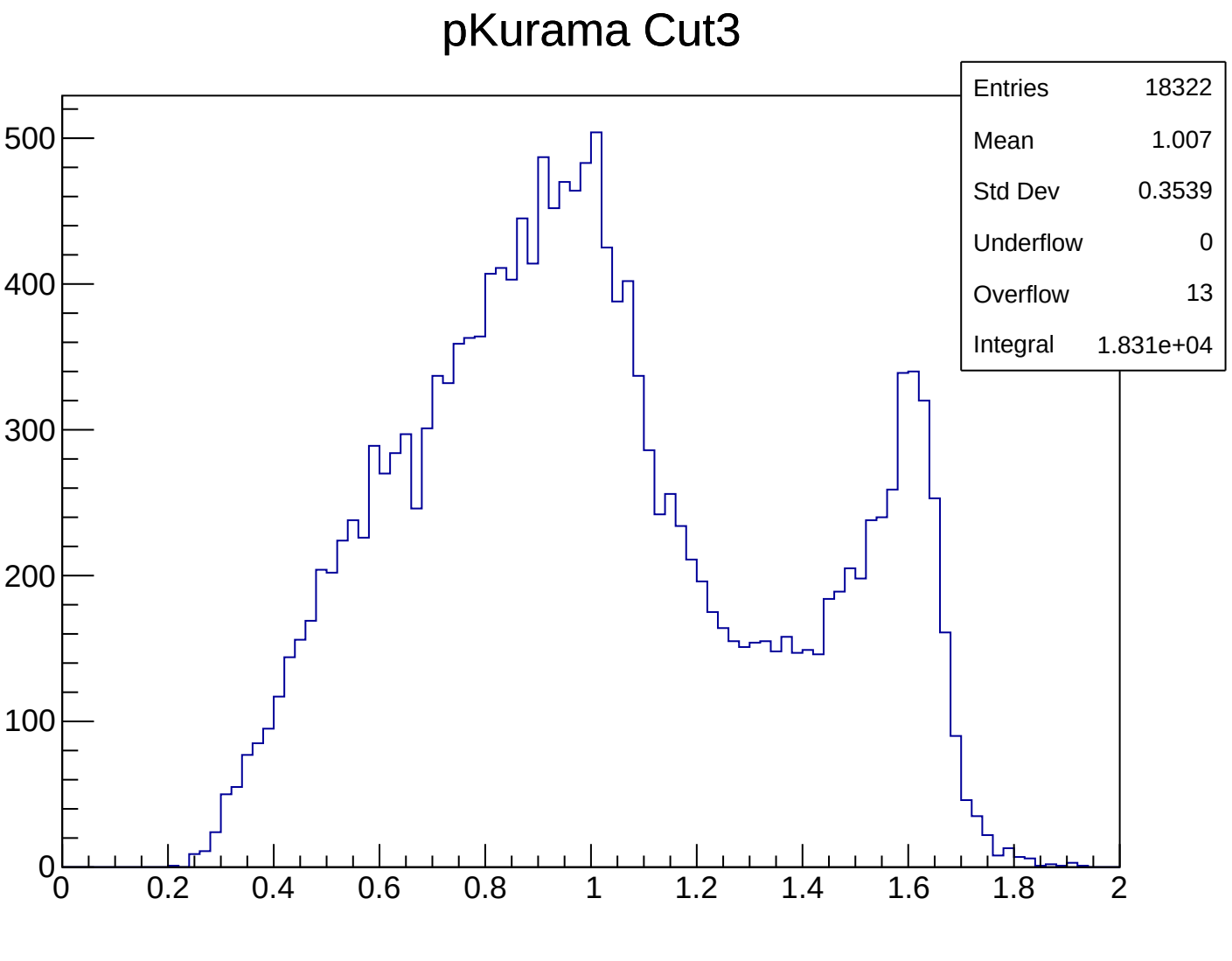

qKurama Cut2
Entries 105124
Mean −0.6514
Std Dev 0.7587
Underflow 0
Overflow 0
Integral 1.051e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
−3
−2
−1
0
1
2
3

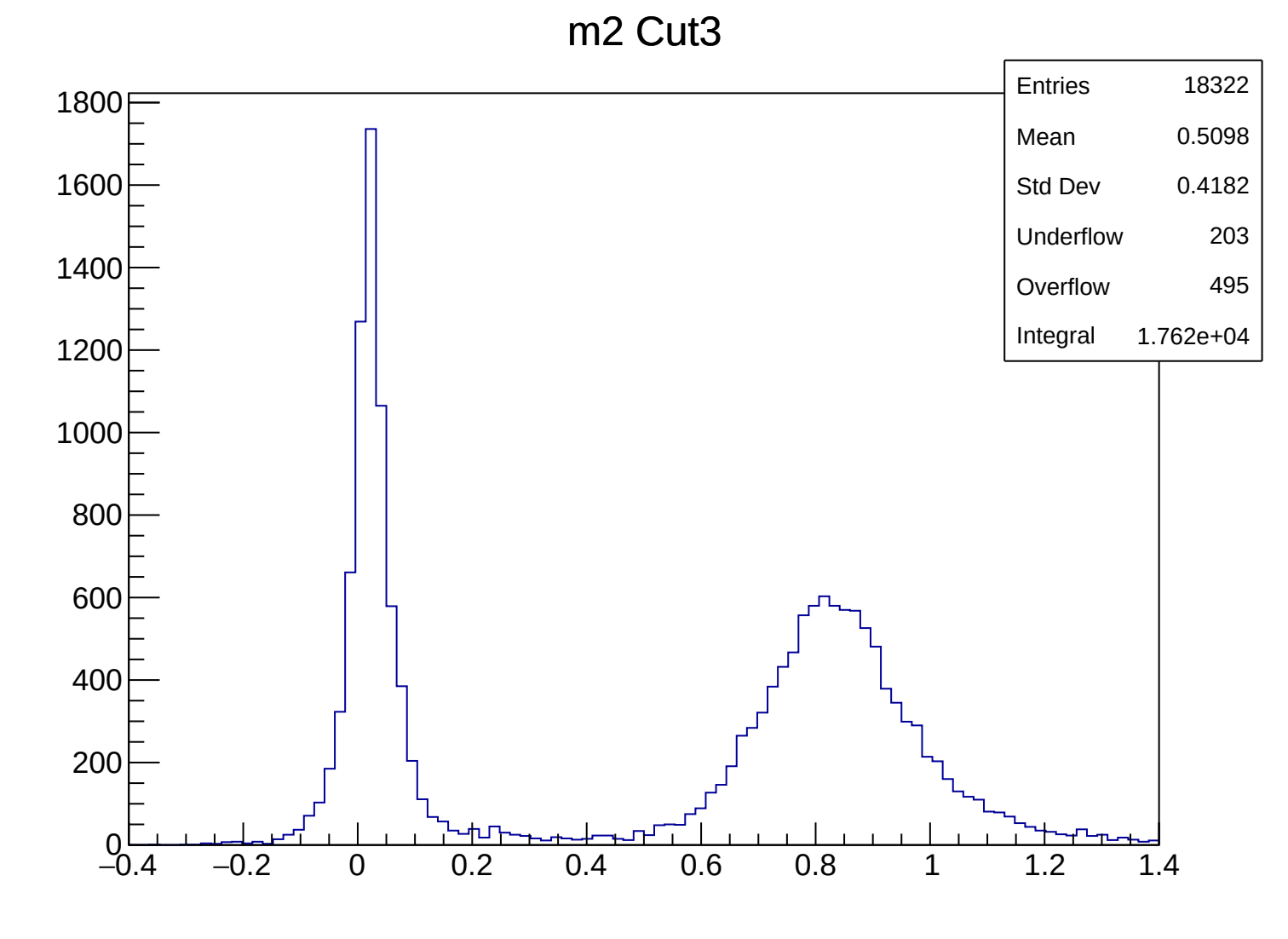

vpx[1] Cut2
Entries 105124
Mean –117.1
Std Dev 76.61
Underflow 0
Overflow 0
Integral 1.051e+05
3500
3000
2500
2000
1500
1000
500
0
–400
–300
–200
–100
0
100
200
300
400

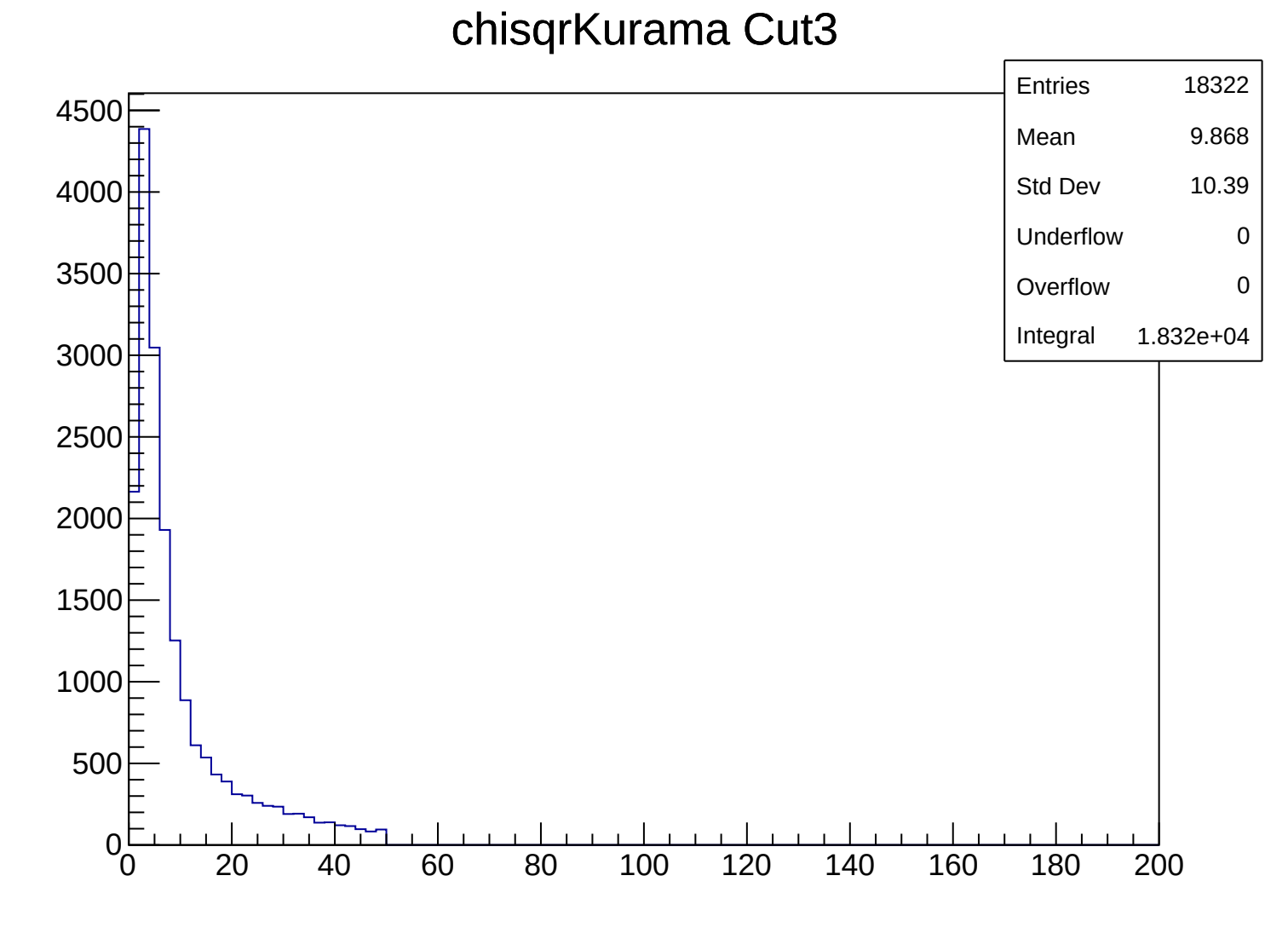

vpseg[1] Cut2
Entries 105124
Mean 19.64
Std Dev 7.302
Underflow 0
Overflow 0
Integral 1.051e+05
10000
8000
6000
4000
2000
0
10
20
30
40
50
60

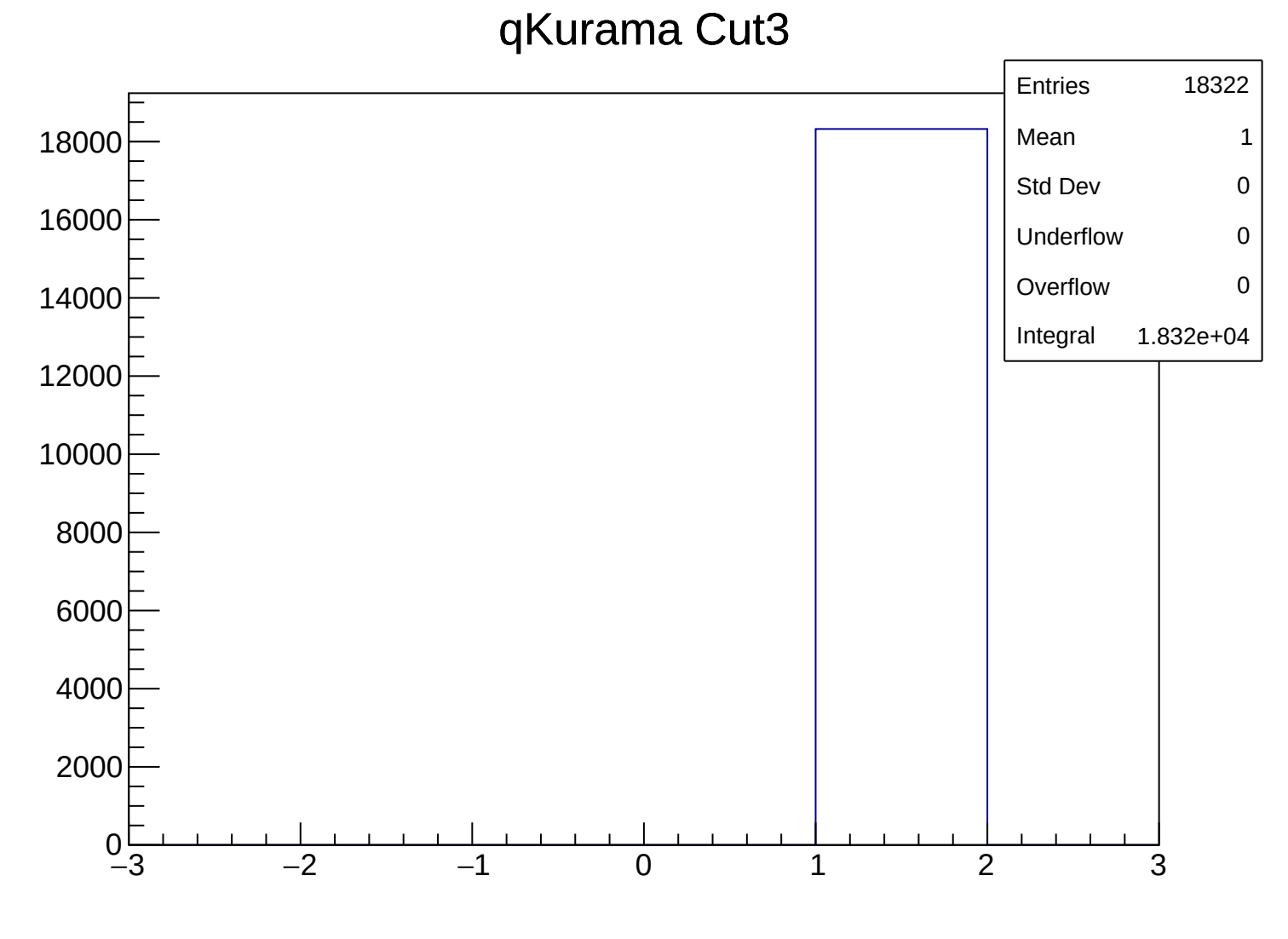

TofSeg[0] Cut2
Entries 105124
Mean 17.55
Std Dev 3.803
Underflow 0
Overflow 0
Integral 1.051e+05
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

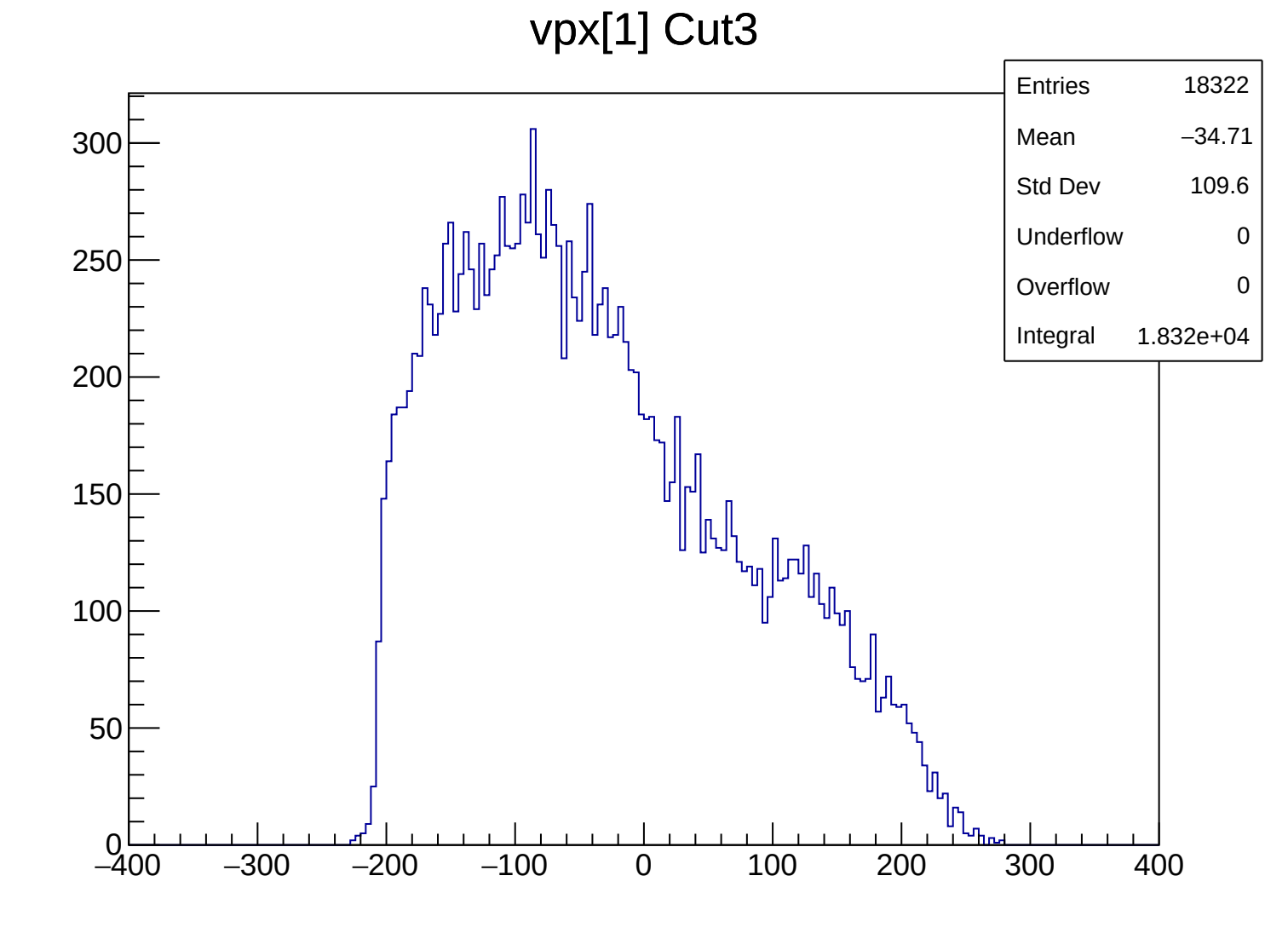

tofsegKurama[0] Cut2
Entries 105124
Mean 17.97
Std Dev 3.553
Underflow 0
Overflow 0
Integral 1.051e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
5
10
15
20
25

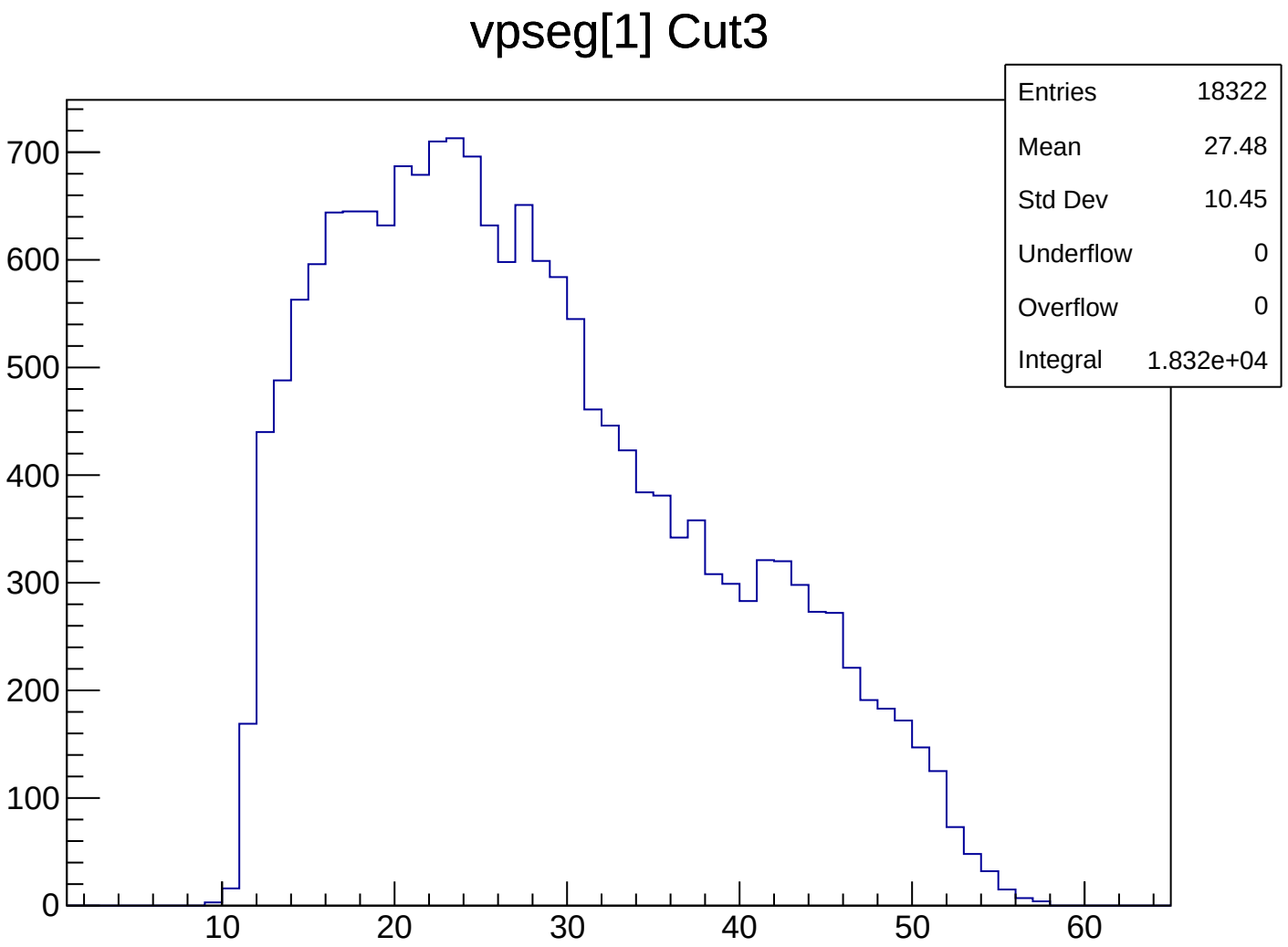

pKurama Cut3
Entries 18322
Mean 1.007
Std Dev 0.3539
Underflow 0
Overflow 13
Integral 1.831e+04
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

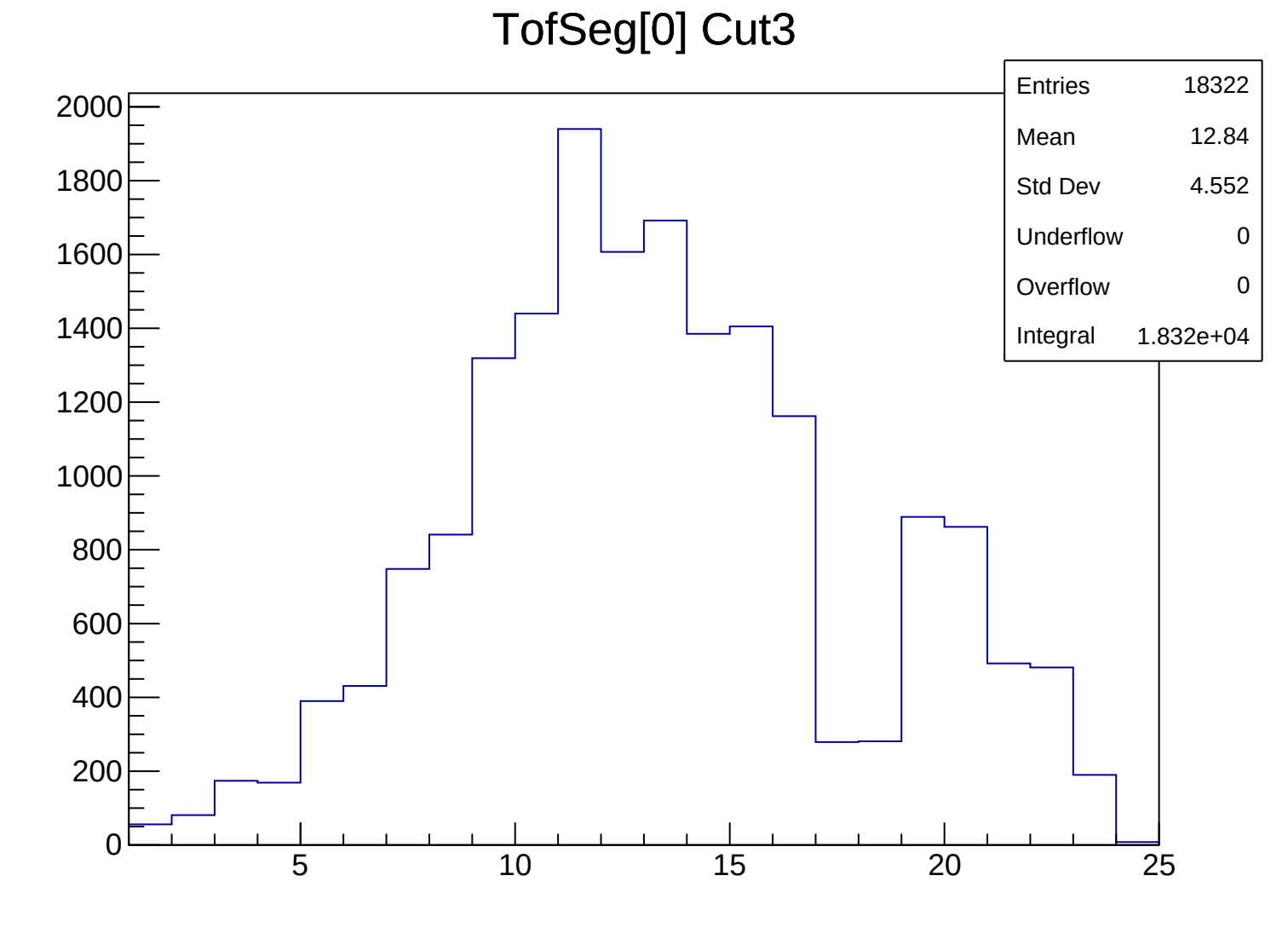

m2 Cut3
Entries 18322
Mean 0.5098
Std Dev 0.4182
Underflow 203
Overflow 495
Integral 1.762e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

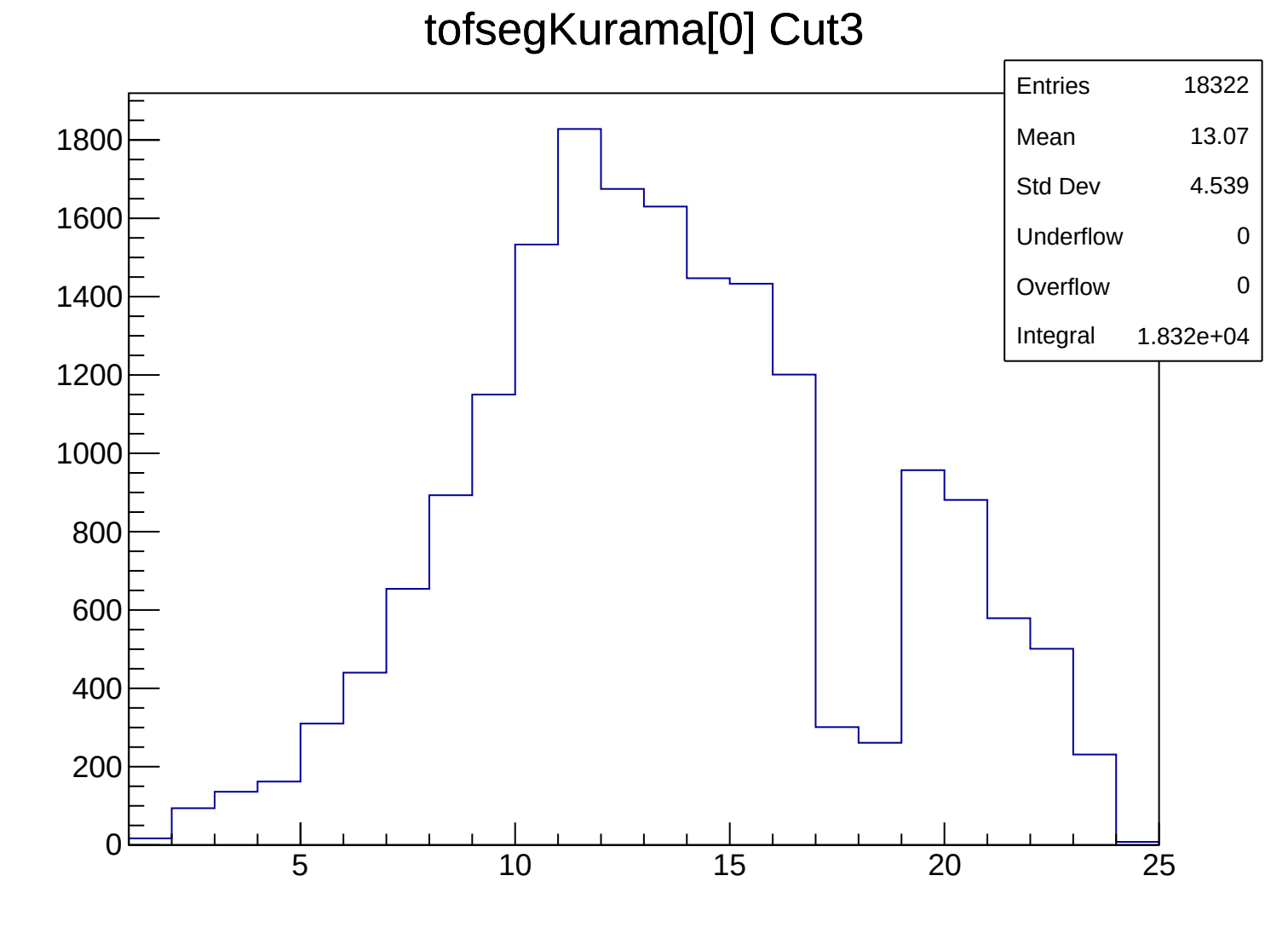

chisqrKurama Cut3
Entries 18322
Mean 9.868
Std Dev 10.39
Underflow 0
Overflow 0
Integral 1.832e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

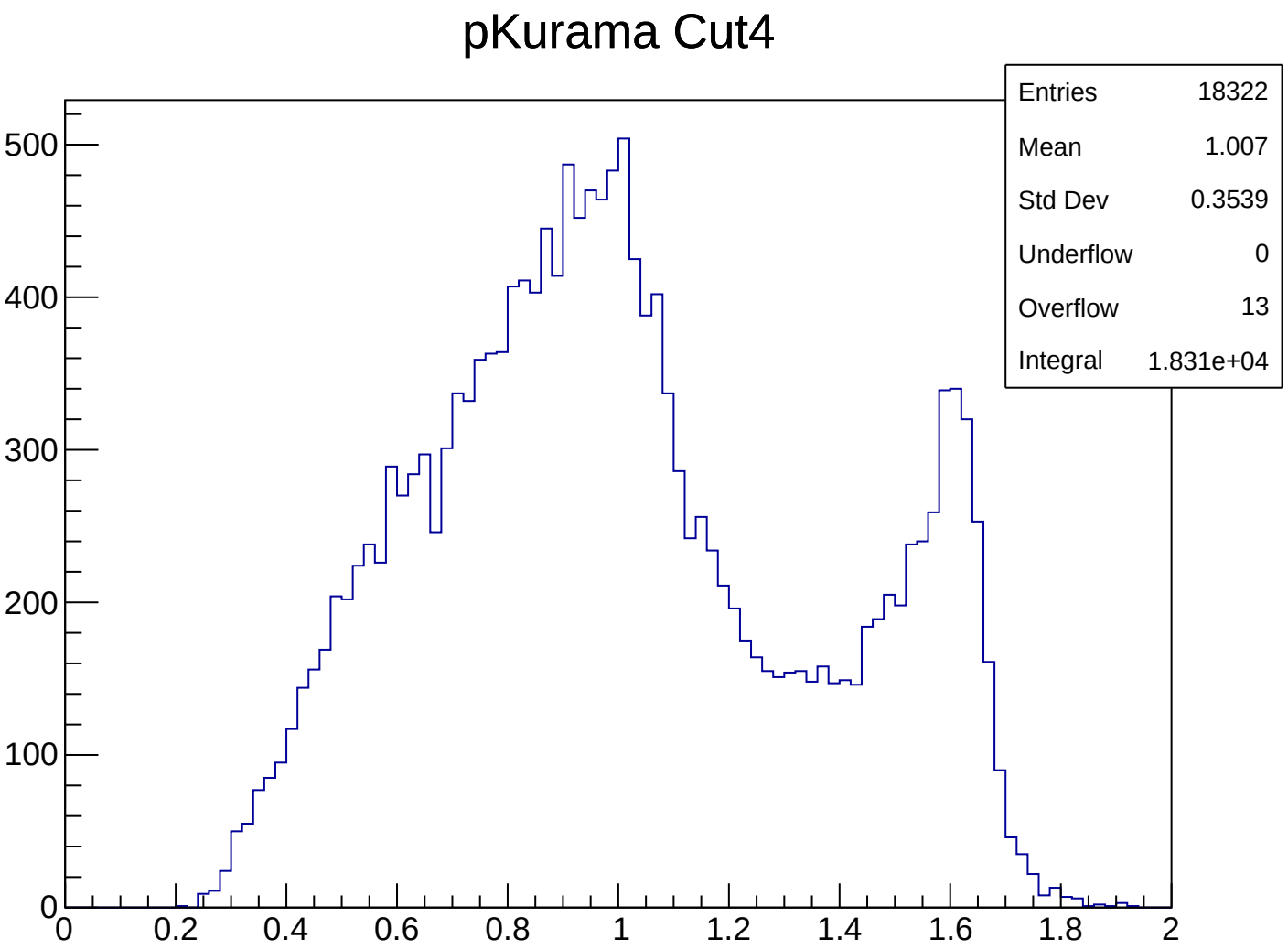

qKurama Cut3
Entries 18322
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.832e+04
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−3
−2
−1
0
1
2
3

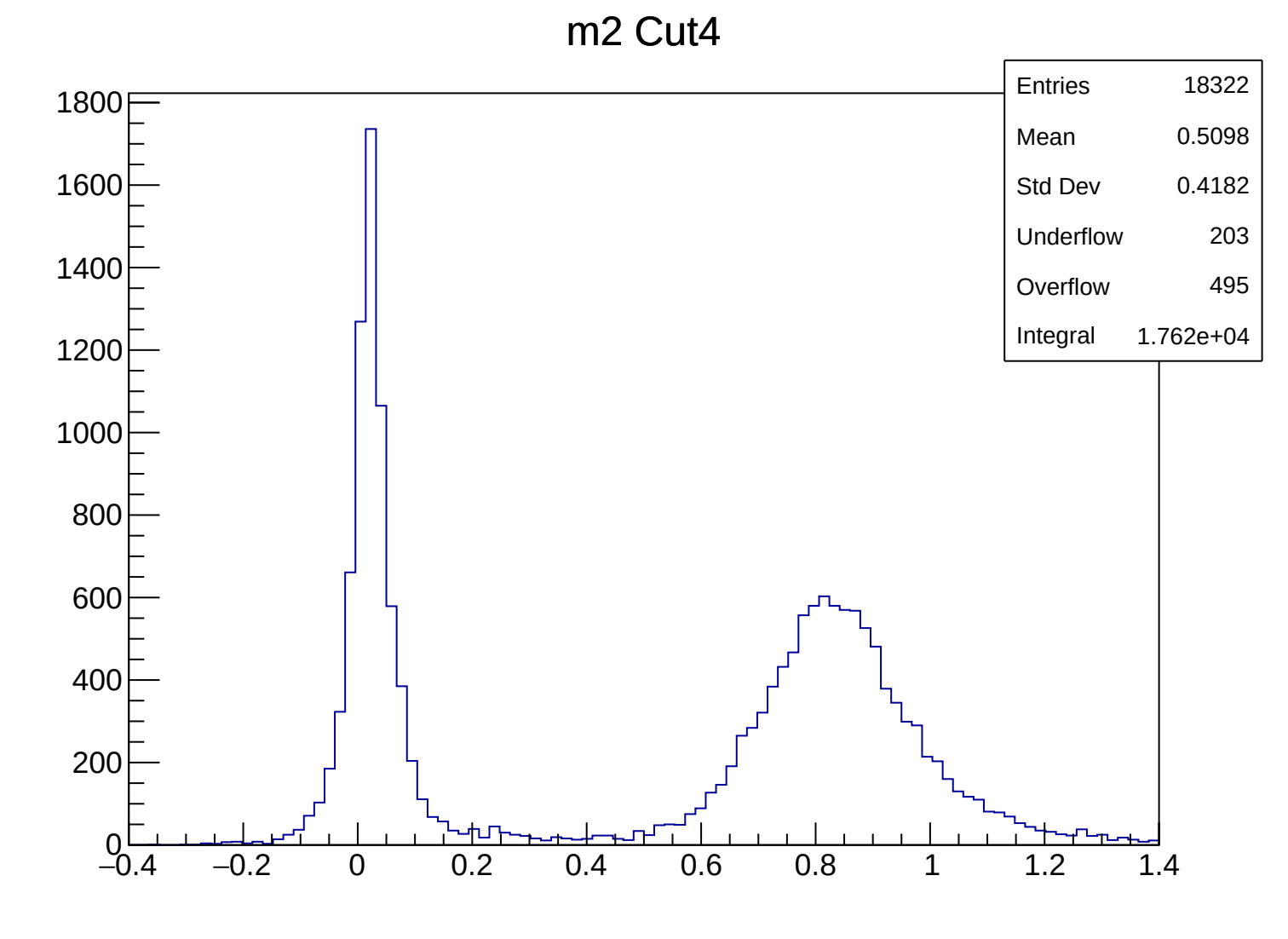

vpx[1] Cut3
Entries 18322
Mean –34.71
Std Dev 109.6
Underflow 0
Overflow 0
Integral 1.832e+04
300
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

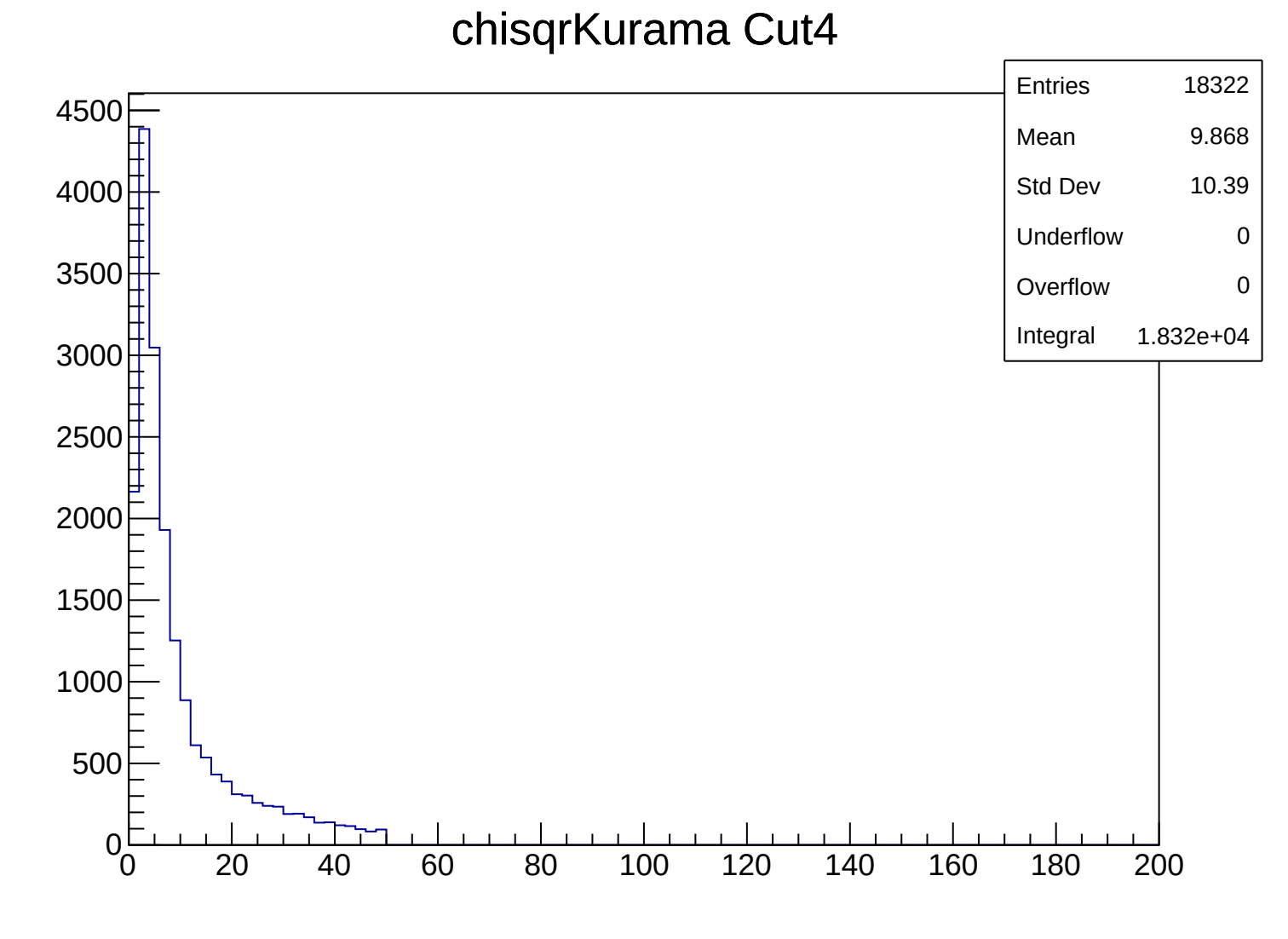

vpseg[1] Cut3
Entries 18322
Mean 27.48
Std Dev 10.45
Underflow 0
Overflow 0
Integral 1.832e+04
700
600
500
400
300
200
100
0
10
20
30
40
50
60

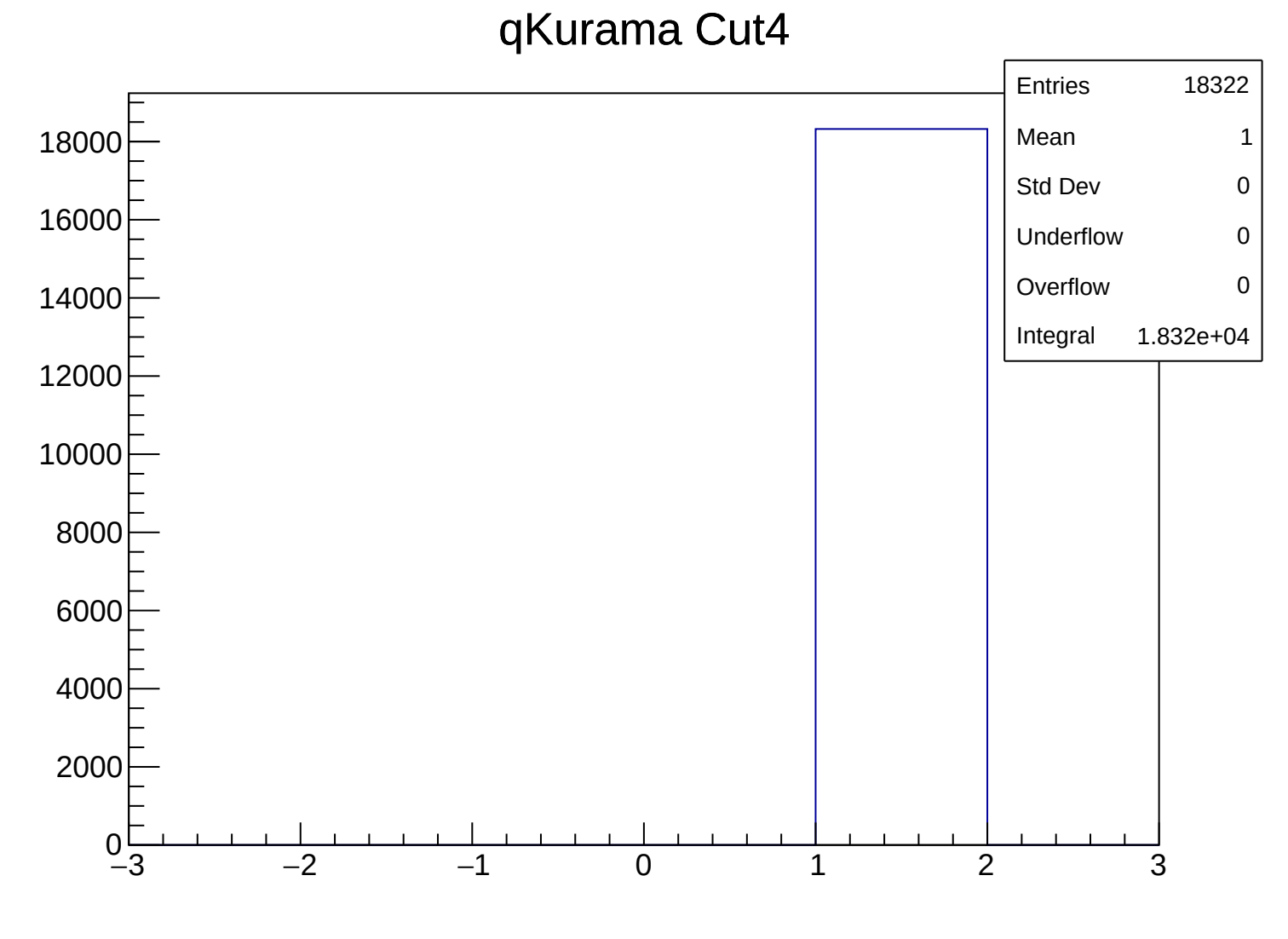

TofSeg[0] Cut3
Entries 18322
Mean 12.84
Std Dev 4.552
Underflow 0
Overflow 0
Integral 1.832e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

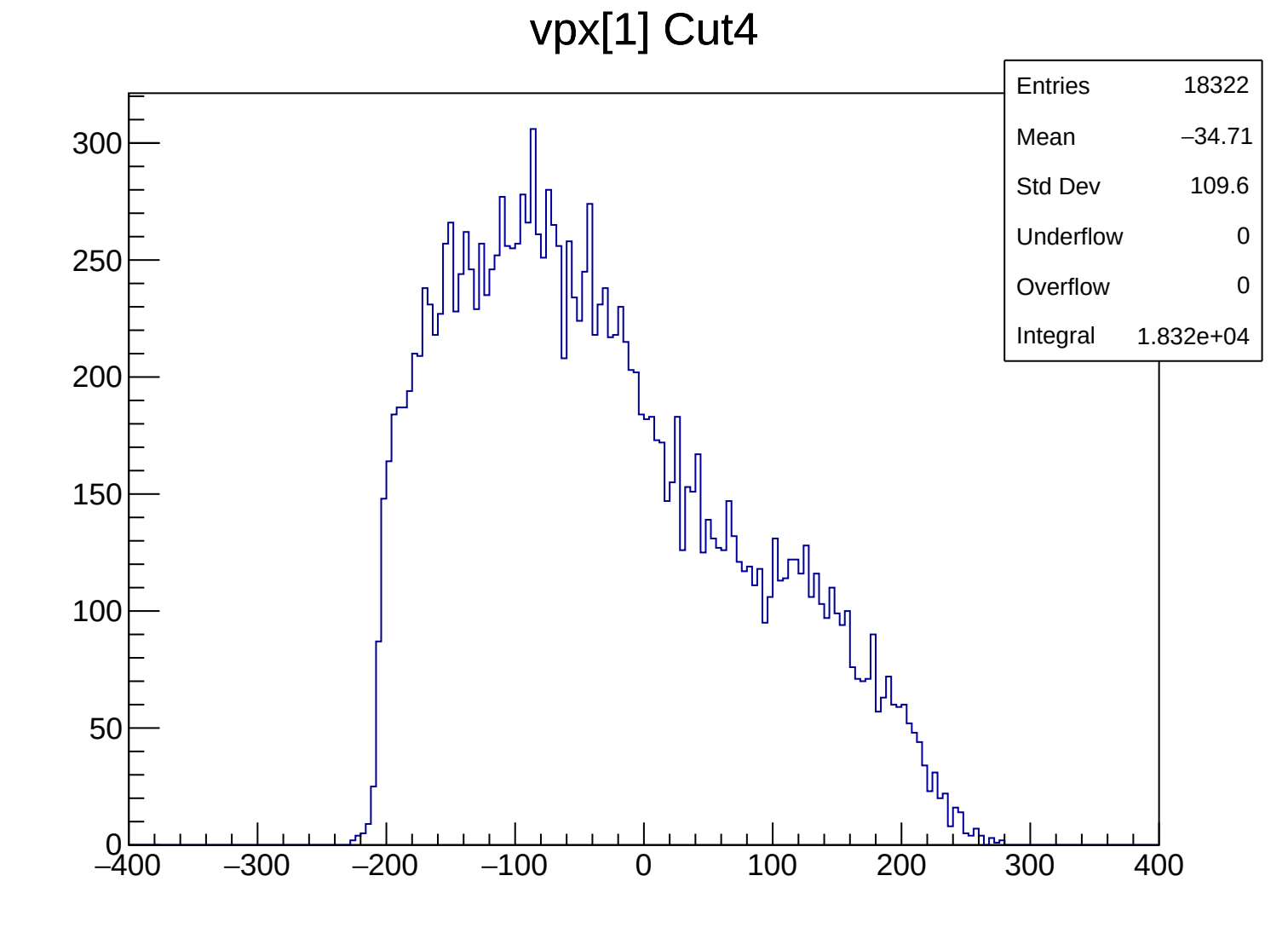

tofsegKurama[0] Cut3
Entries 18322
Mean 13.07
Std Dev 4.539
Underflow 0
Overflow 0
Integral 1.832e+04
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

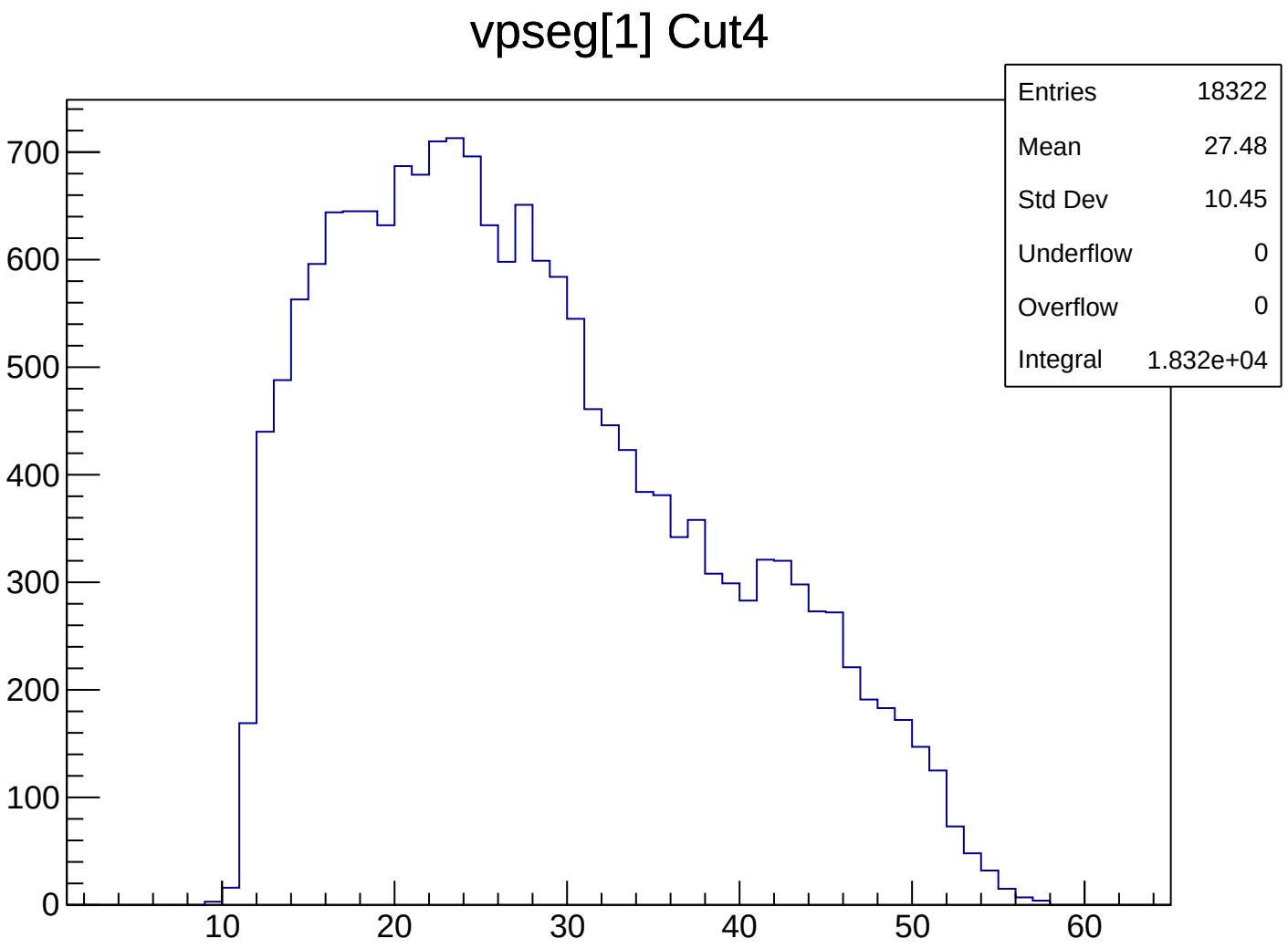

pKurama Cut4
Entries 18322
Mean 1.007
Std Dev 0.3539
Underflow 0
Overflow 13
Integral 1.831e+04
500
400
300
200
100
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

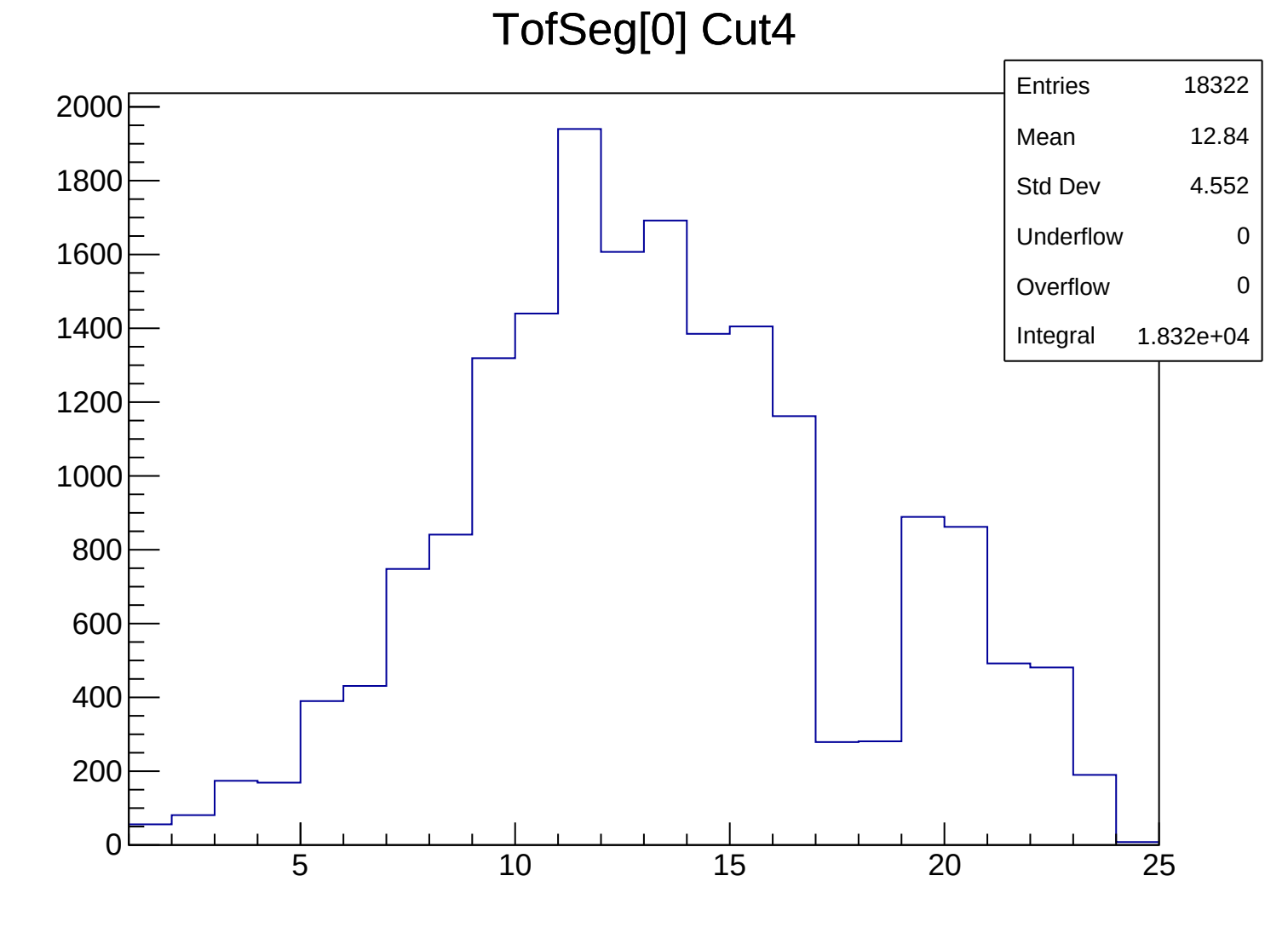

m2 Cut4
Entries 18322
Mean 0.5098
Std Dev 0.4182
Underflow 203
Overflow 495
Integral 1.762e+04
1800
1600
1400
1200
1000
800
600
400
200
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

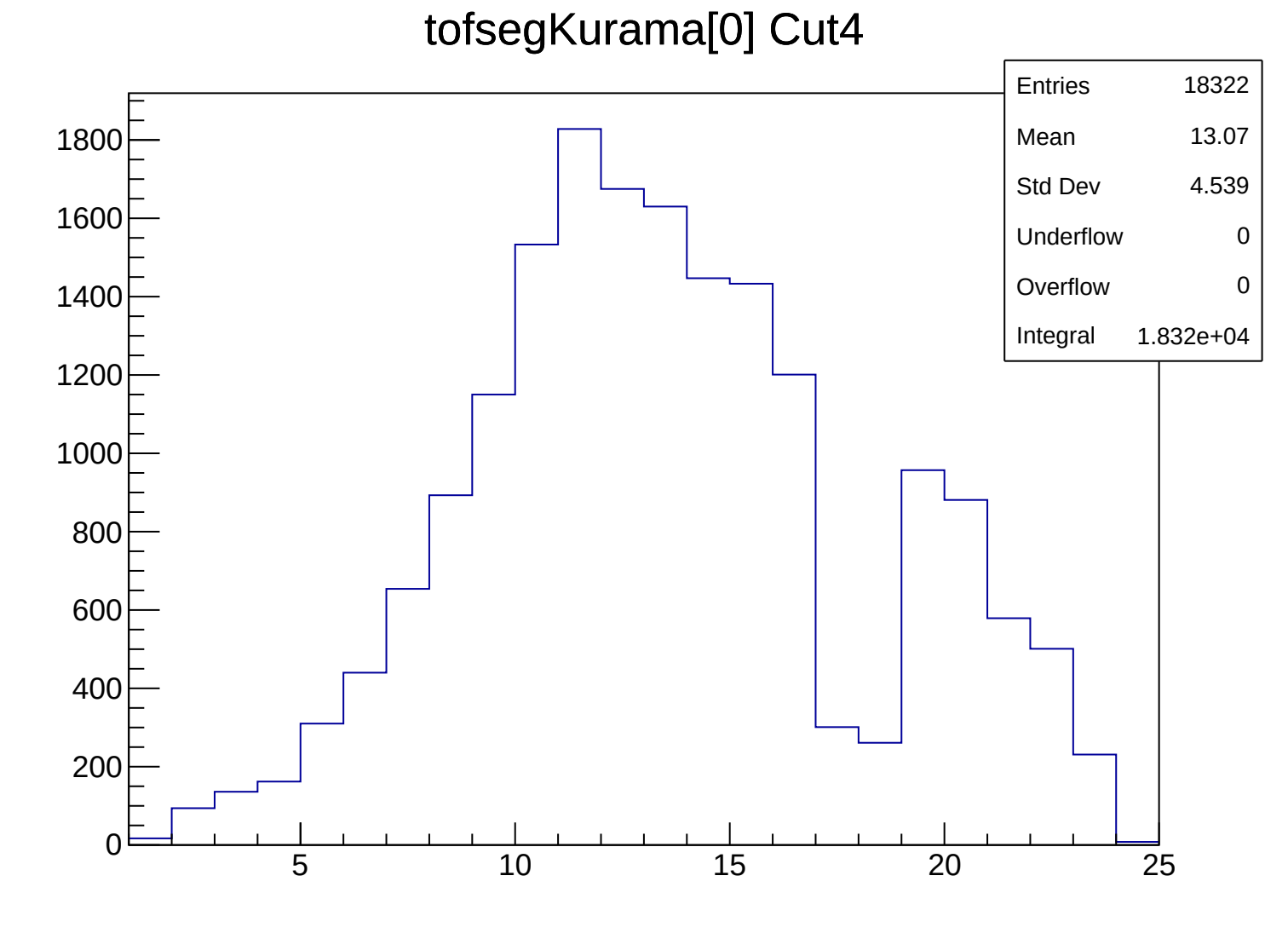

chisqrKurama Cut4
Entries 18322
Mean 9.868
Std Dev 10.39
Underflow 0
Overflow 0
Integral 1.832e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
140
160
180
200

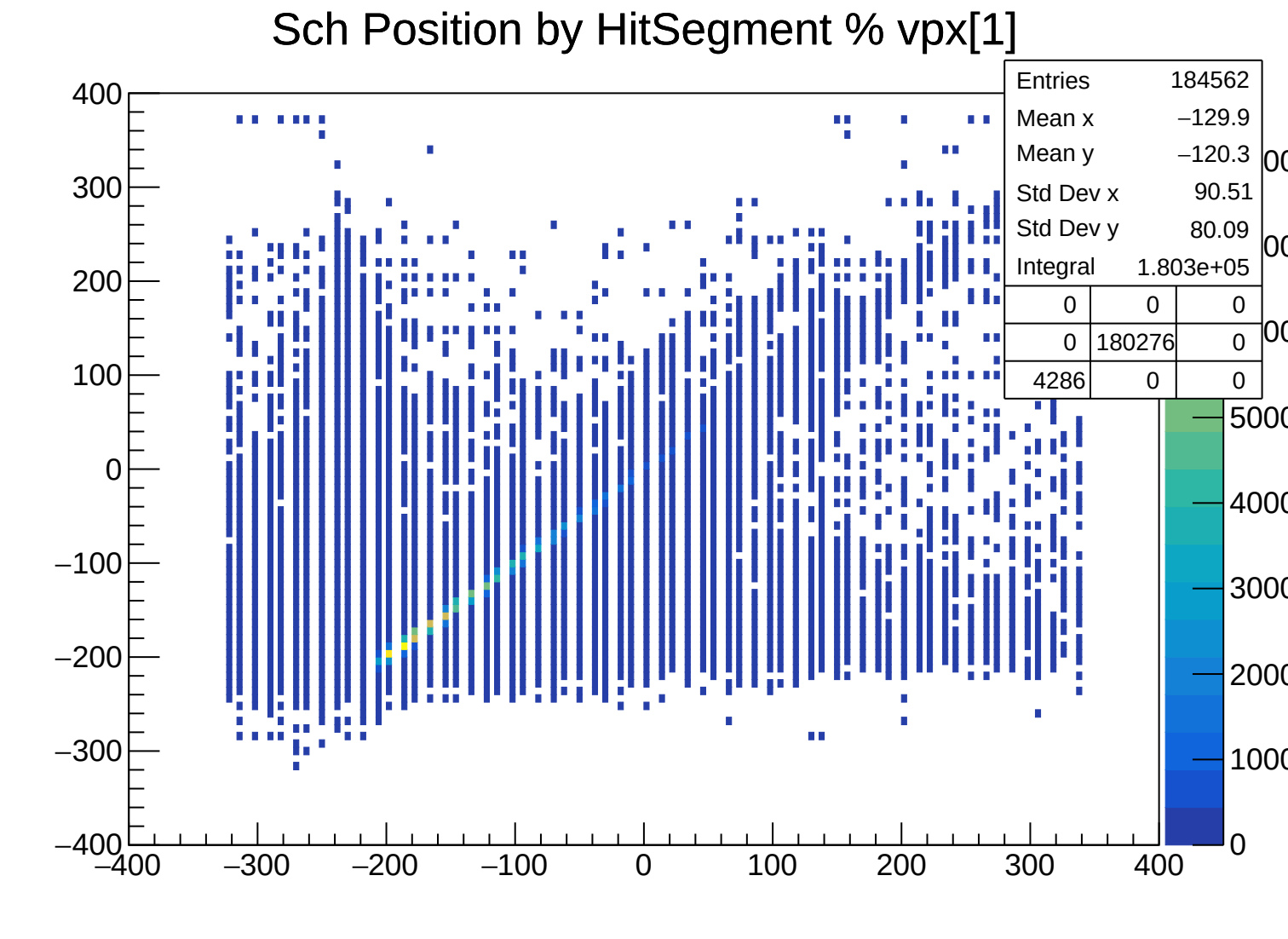

qKurama Cut4
Entries 18322
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.832e+04
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−3
−2
−1
0
1
2
3

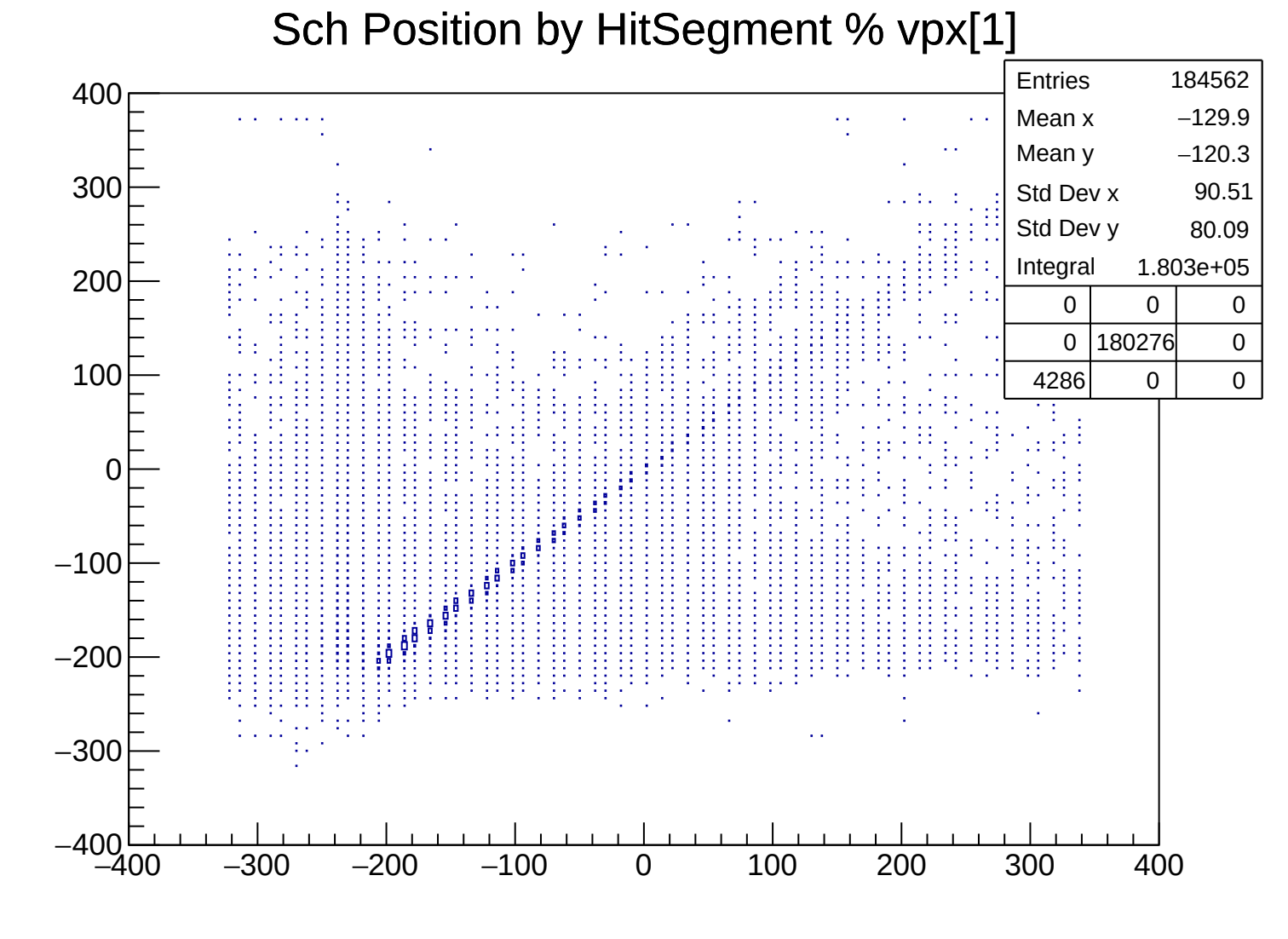

vpx[1] Cut4
Entries 18322
Mean –34.71
Std Dev 109.6
Underflow 0
Overflow 0
Integral 1.832e+04
300
250
200
150
100
50
0
–400
–300
–200
–100
0
100
200
300
400

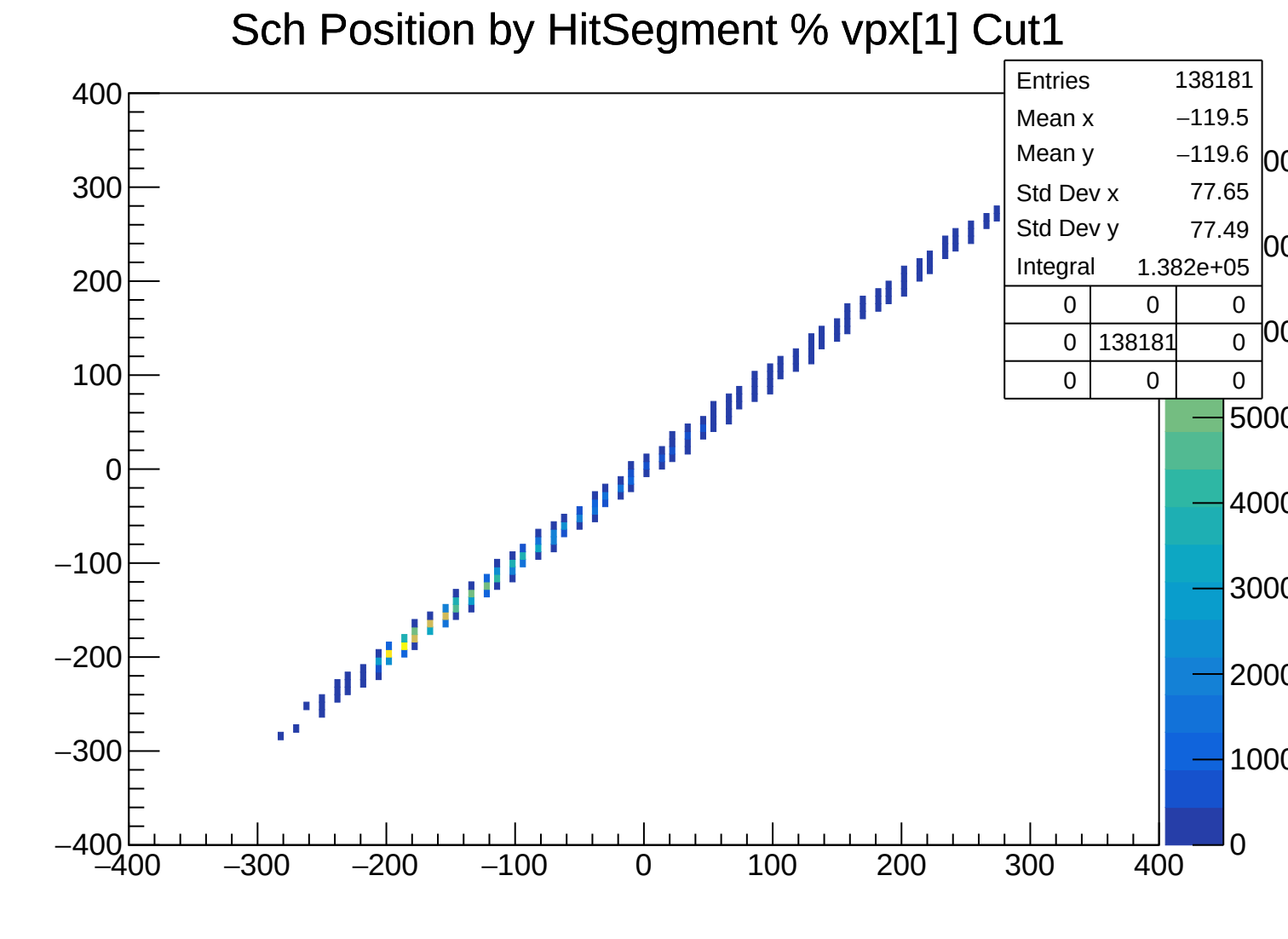

vpseg[1] Cut4
Entries 18322
Mean 27.48
Std Dev 10.45
Underflow 0
Overflow 0
Integral 1.832e+04
700
600
500
400
300
200
100
0
10
20
30
40
50
60

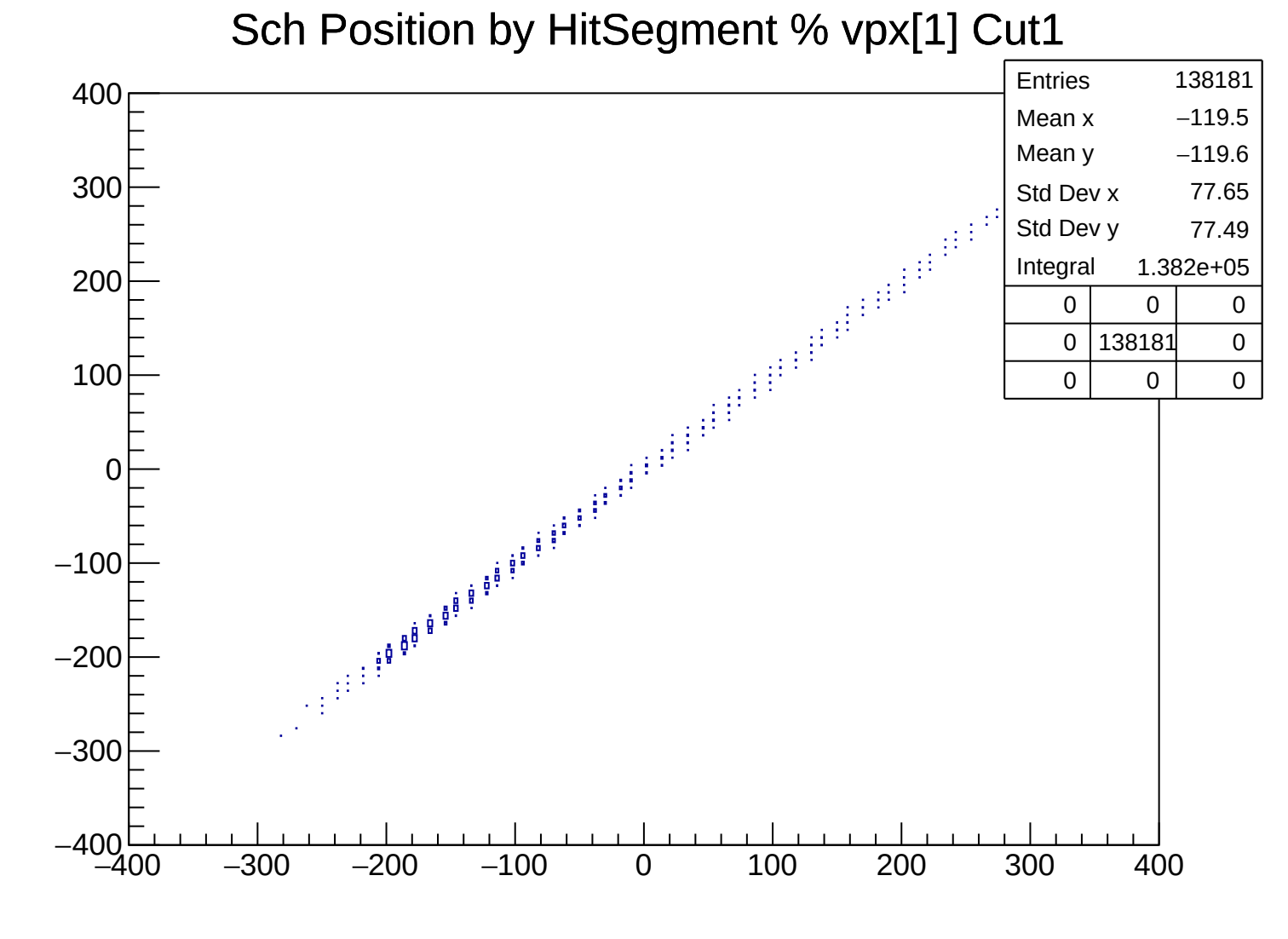

TofSeg[0] Cut4
Entries 18322
Mean 12.84
Std Dev 4.552
Underflow 0
Overflow 0
Integral 1.832e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

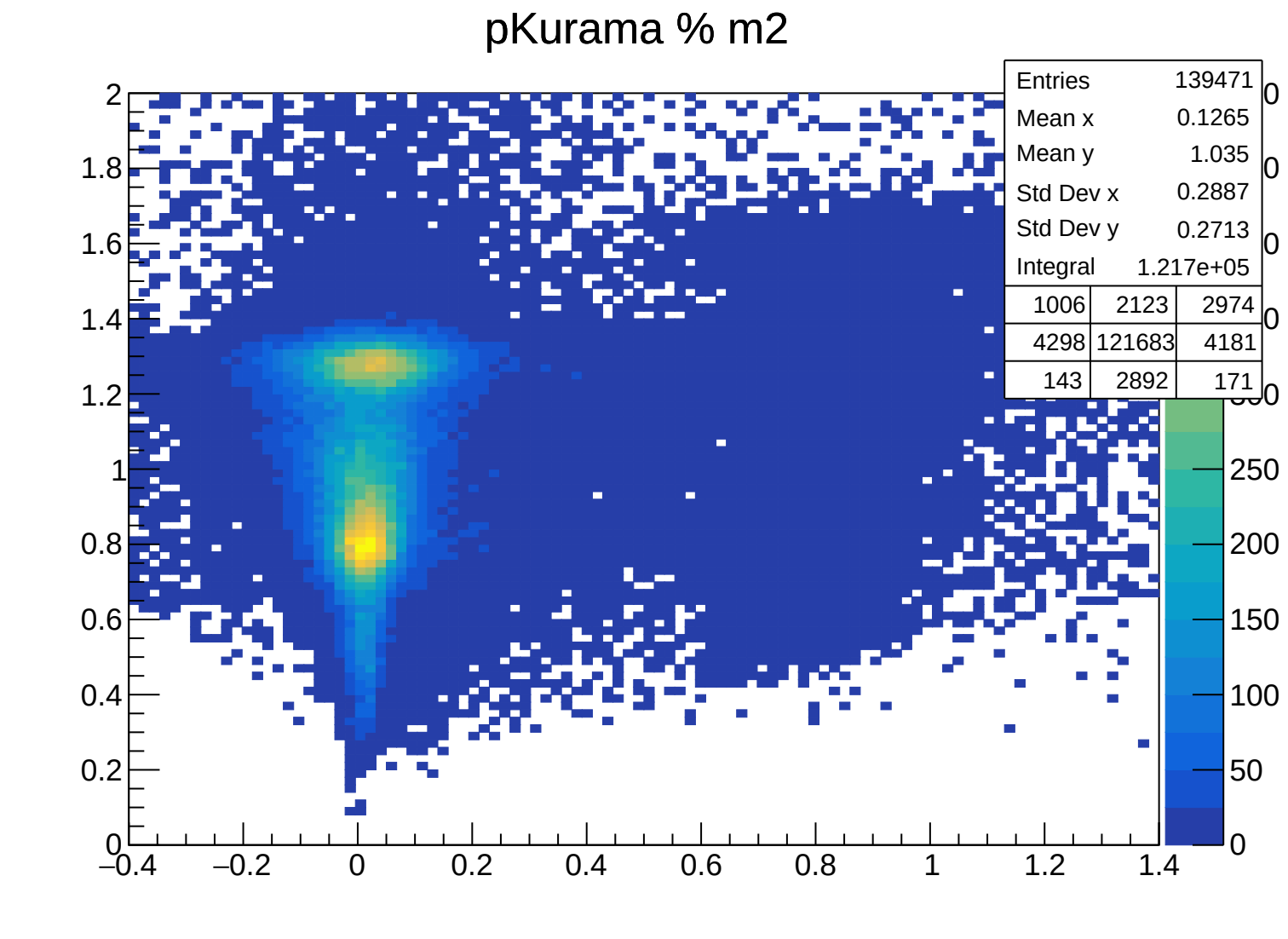

tofsegKurama[0] Cut4
Entries 18322
Mean 13.07
Std Dev 4.539
Underflow 0
Overflow 0
Integral 1.832e+04
1800
1600
1400
1200
1000
800
600
400
200
0
5
10
15
20
25

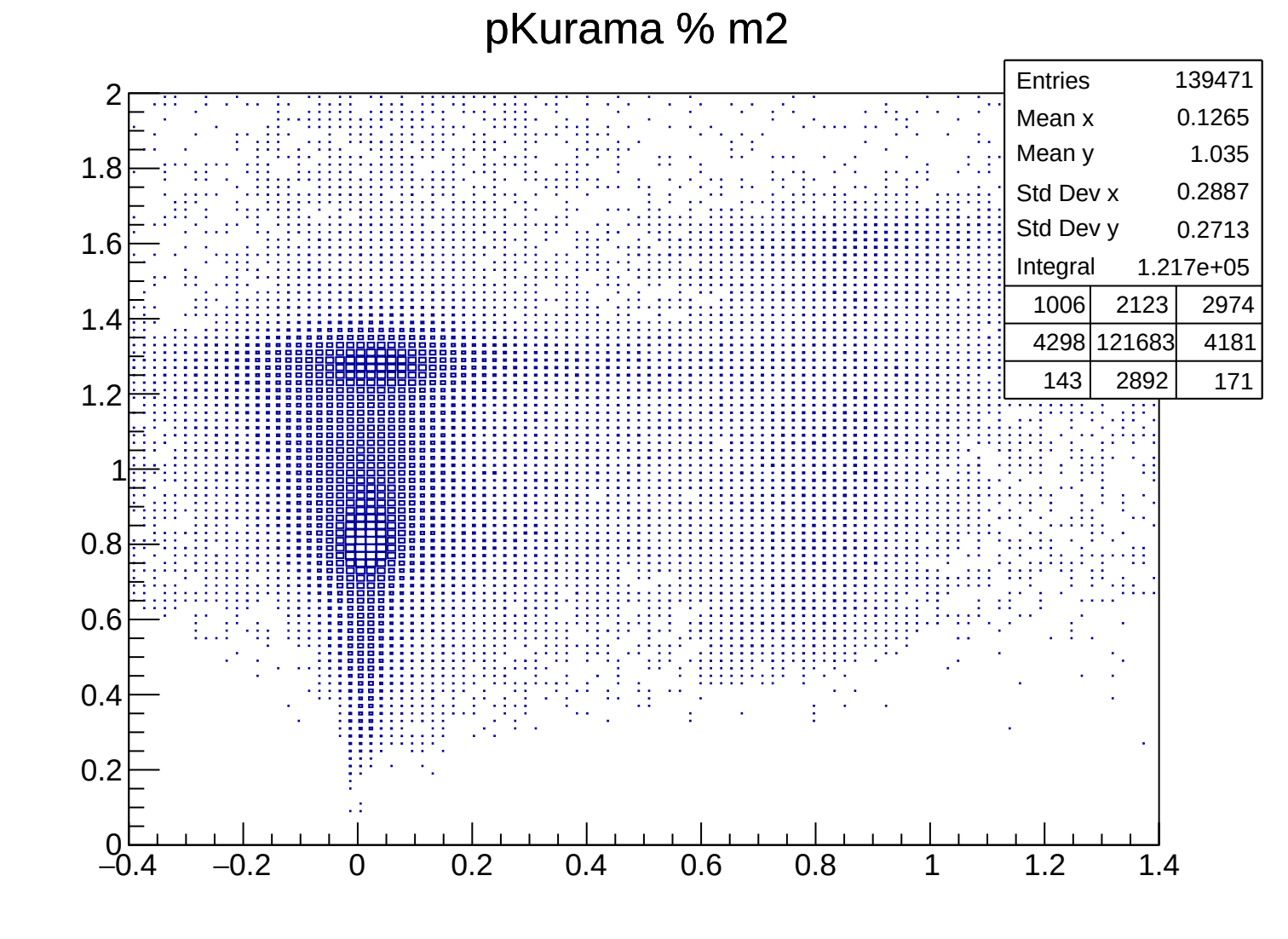

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

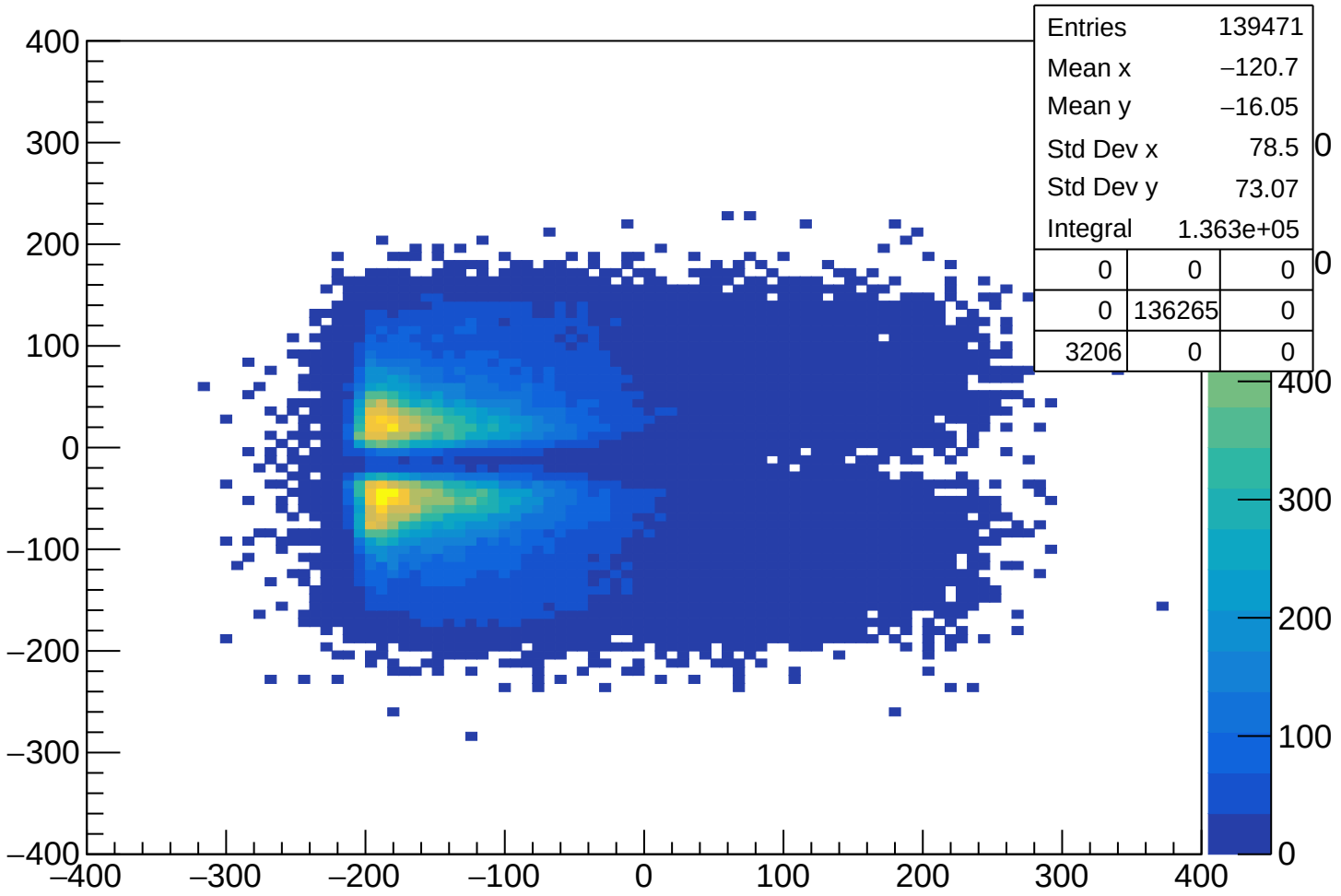

Sch Position by HitSegment % vpx[1]
Entries 184562
Mean x −129.9
Mean y −120.3
Std Dev x 90.51
Std Dev y 80.09
Integral 1.803e+05
0 0 0
0 180276 0
4286 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

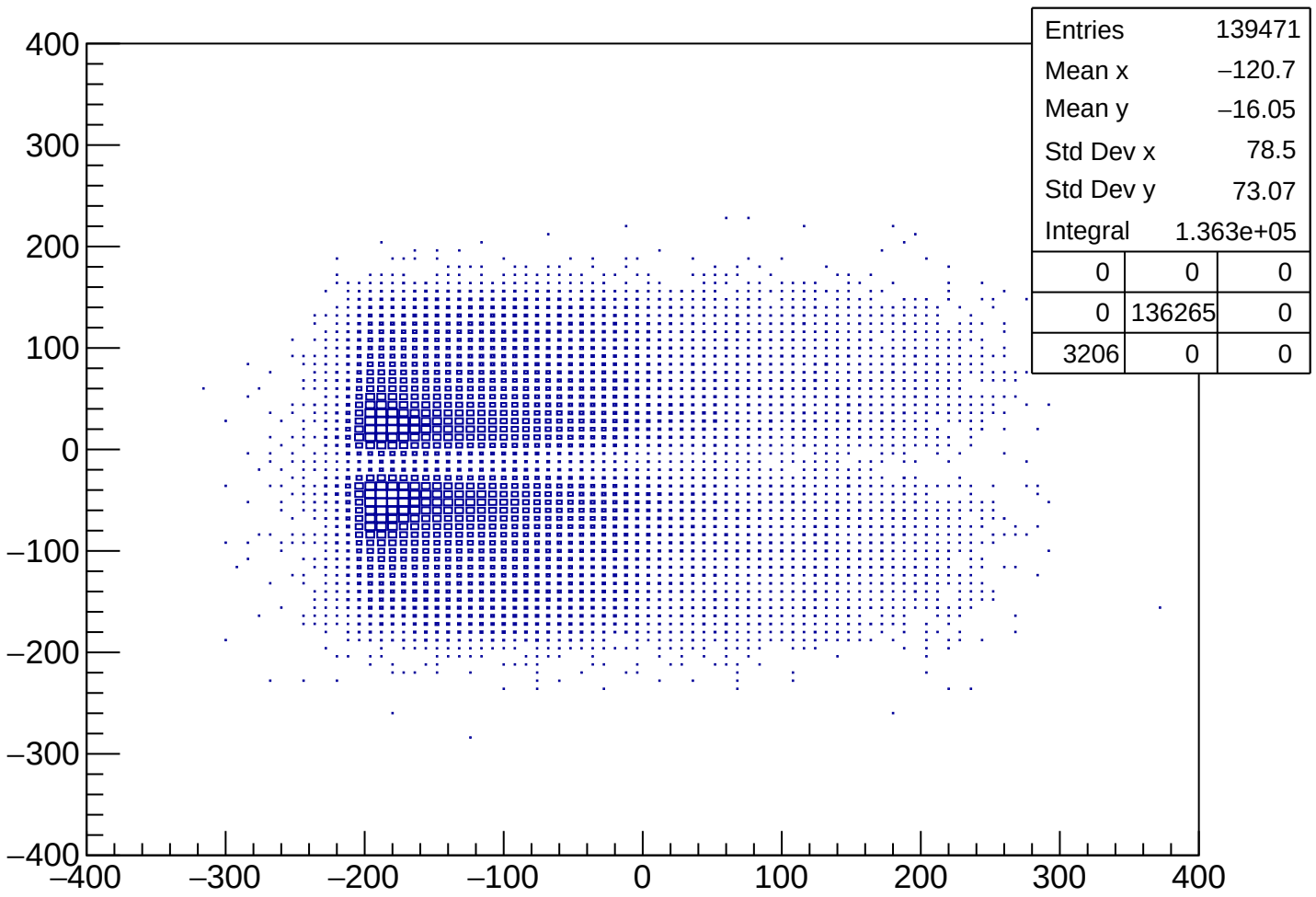

Sch Position by HitSegment % vpx[1] Cut1
Entries 138181
Mean x −119.5
Mean y −119.6
Std Dev x 77.65
Std Dev y 77.49
Integral 1.382e+05
0 0 0
0 138181 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
5000
4000
3000
2000
1000
0

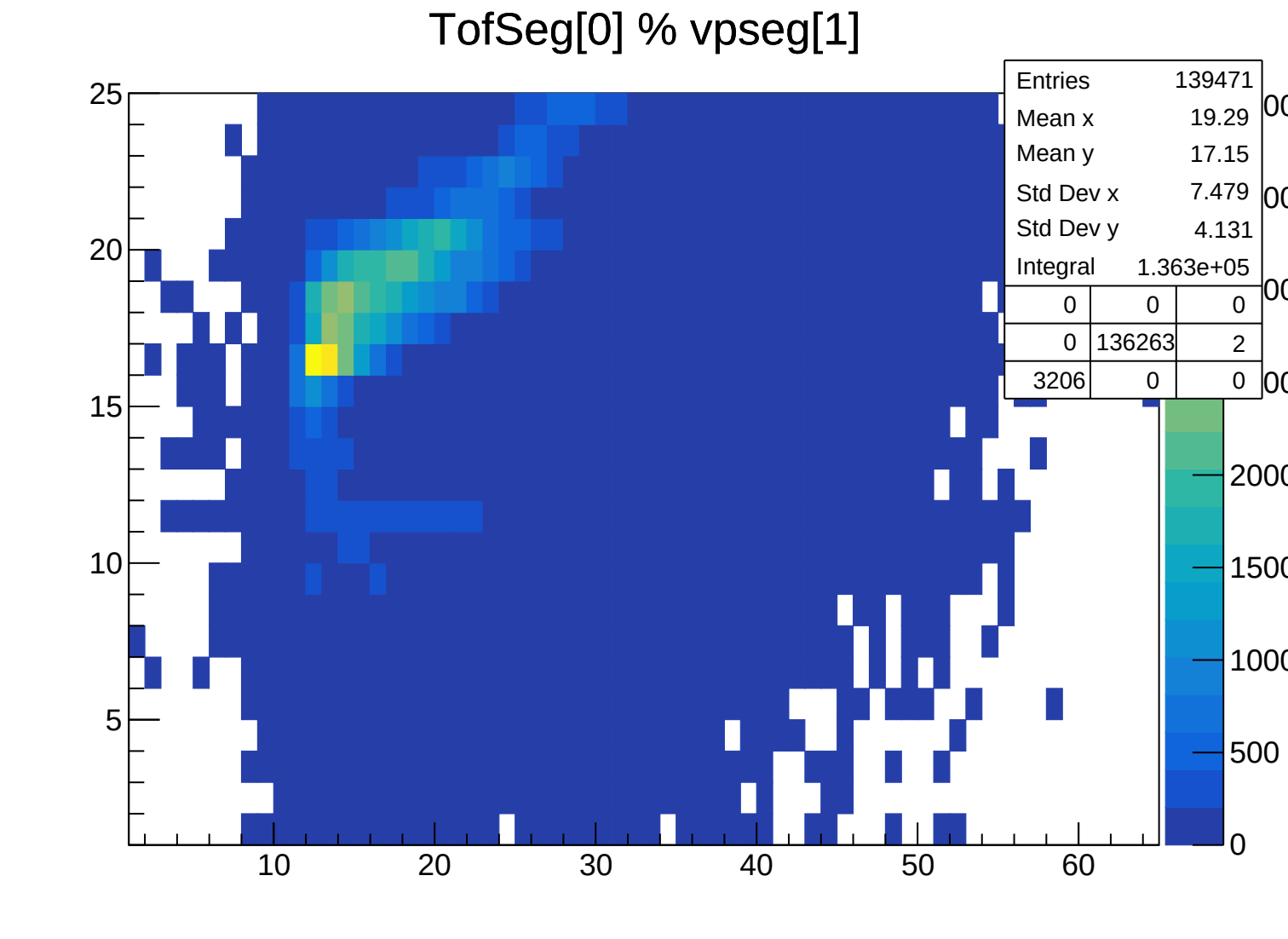

Sch Position by HitSegment % vpx[1] Cut1
Entries 138181
Mean x −119.5
Mean y −119.6
Std Dev x 77.65
Std Dev y 77.49
Integral 1.382e+05
0 0 0
0 138181 0
0 0 0
400
300
200
100
0
−100
−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400

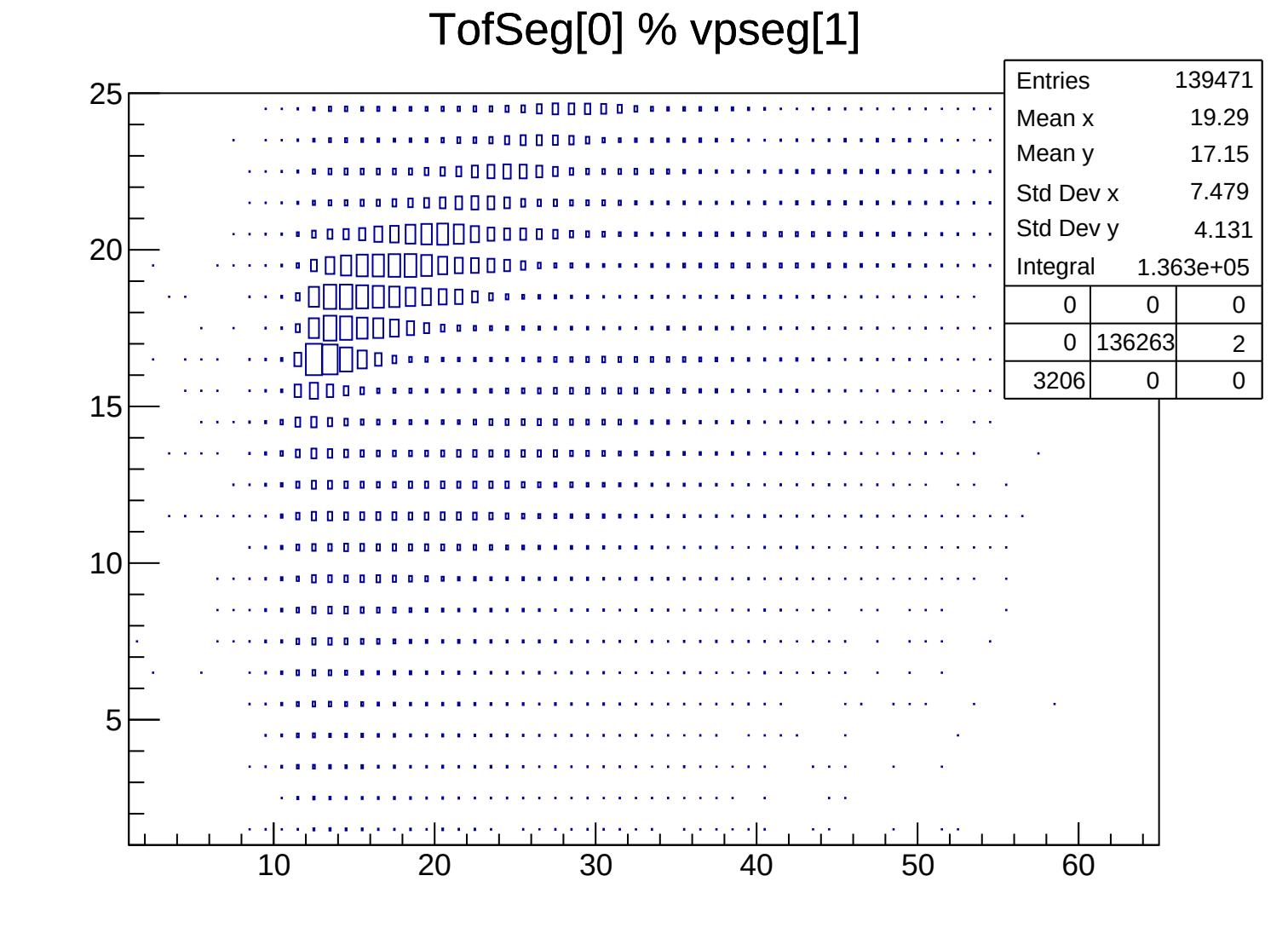

pKurama % m2
Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
250
200
150
100
50
0

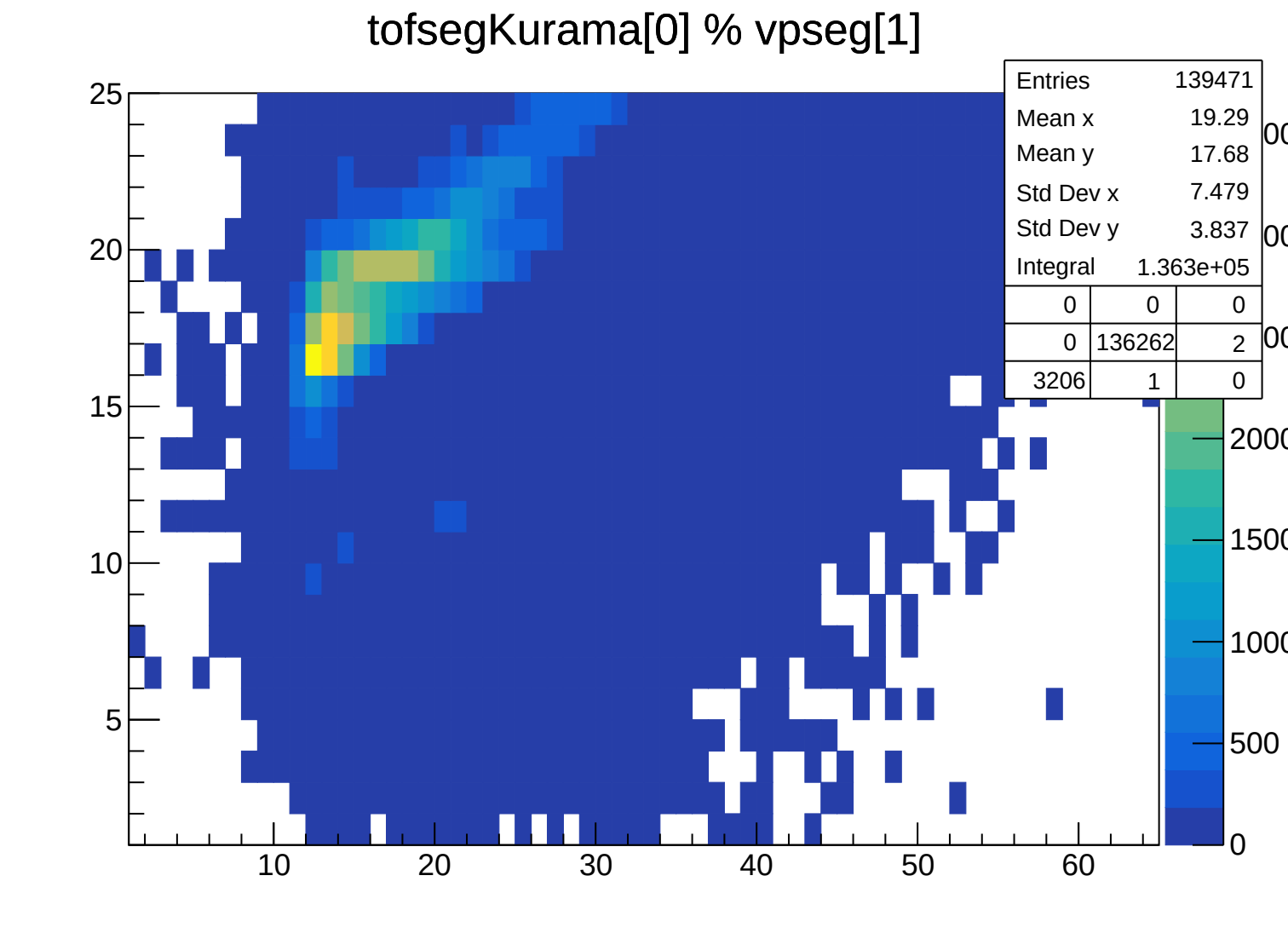

pKurama % m2
Entries 139471
Mean x 0.1265
Mean y 1.035
Std Dev x 0.2887
Std Dev y 0.2713
Integral 1.217e+05
1006 2123 2974
4298 121683 4181
143 2892 171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

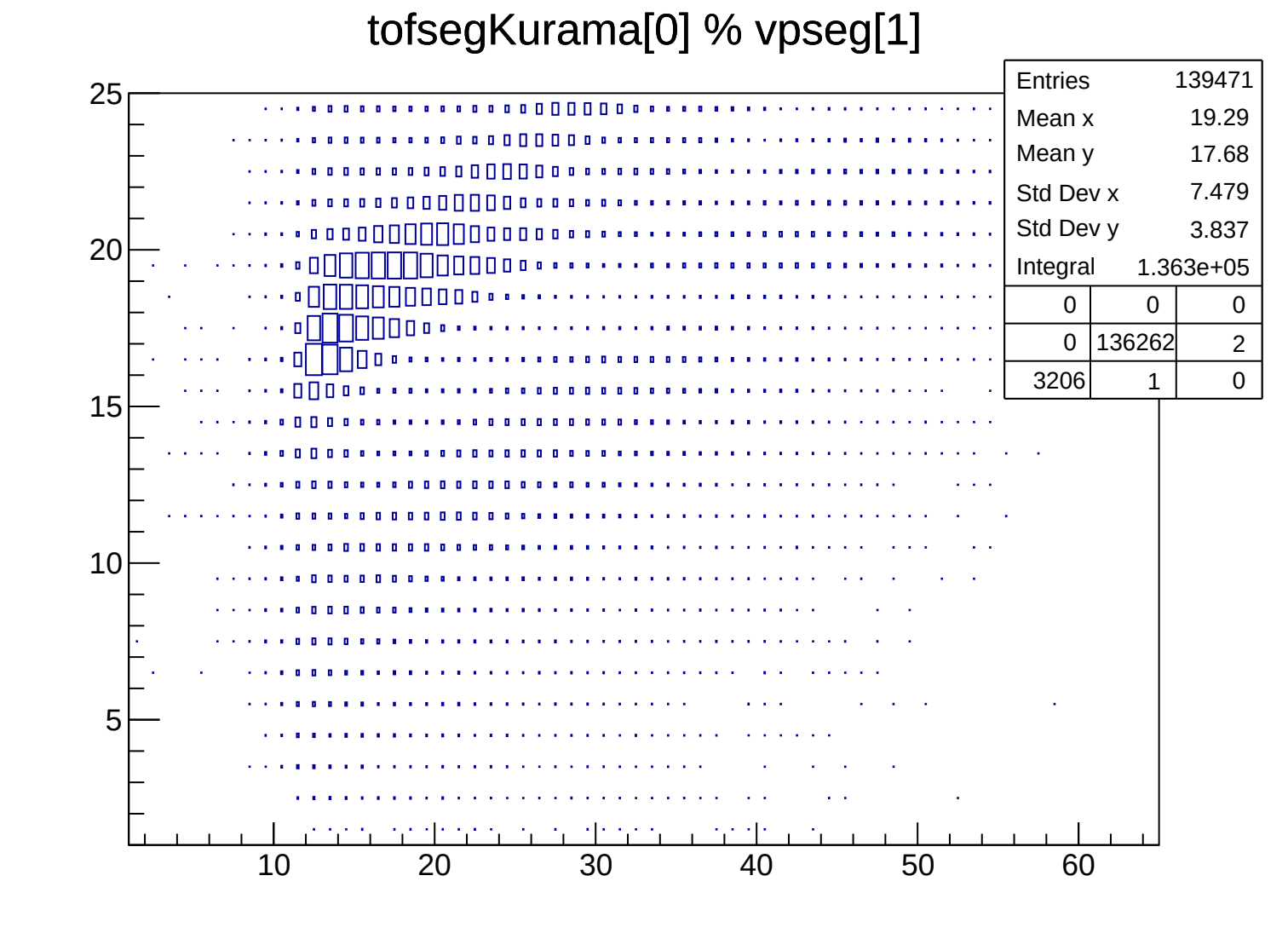

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400
400
300
200
100
0

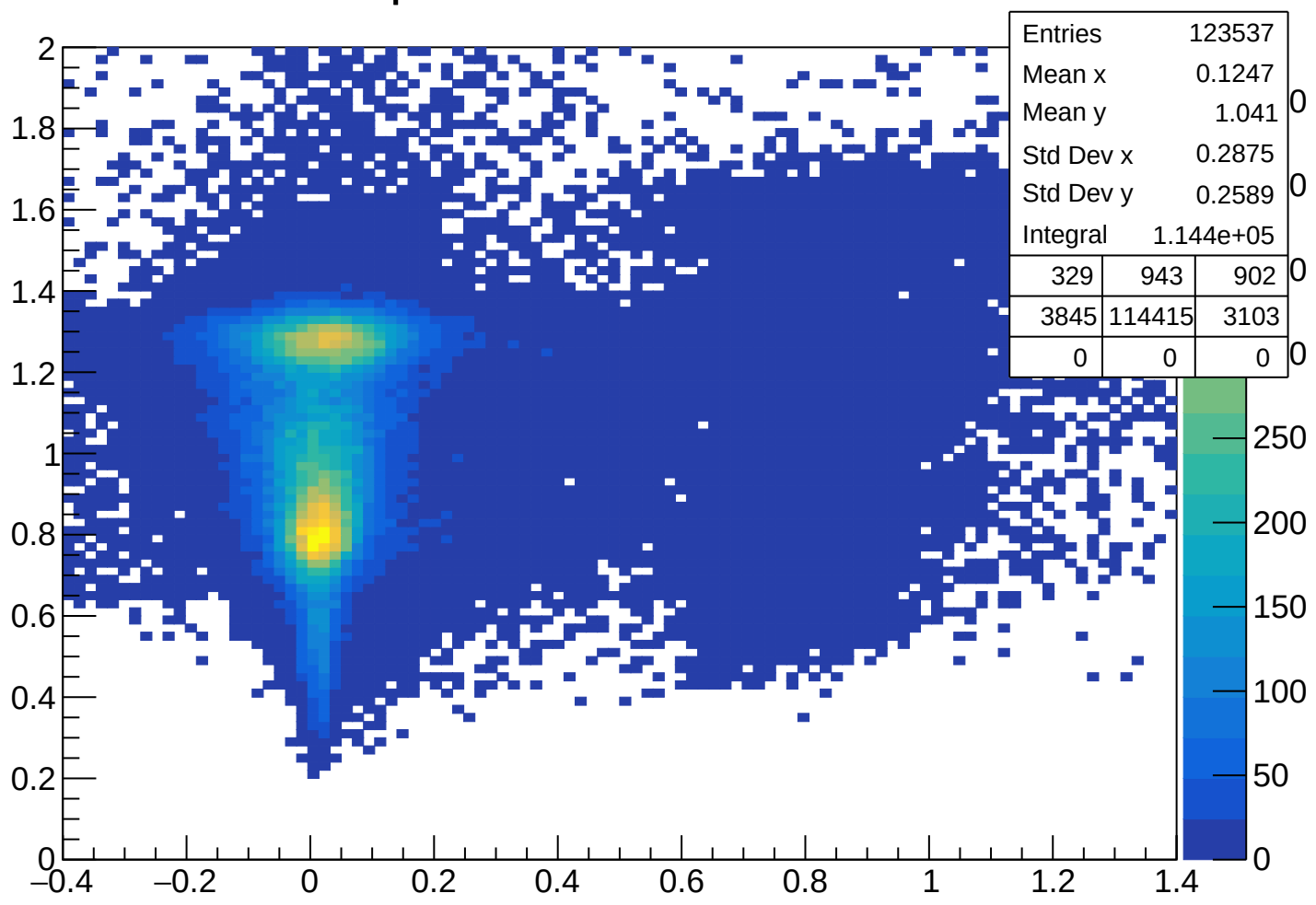

vpy[1] % vpx[1]
Entries 139471
Mean x −120.7
Mean y −16.05
Std Dev x 78.5
Std Dev y 73.07
Integral 1.363e+05
0 0 0
0 136265 0
3206 0 0
400
300
200
100
0
−100
−200
−300
−400
−400
−300
−200
−100
0
100
200
300
400

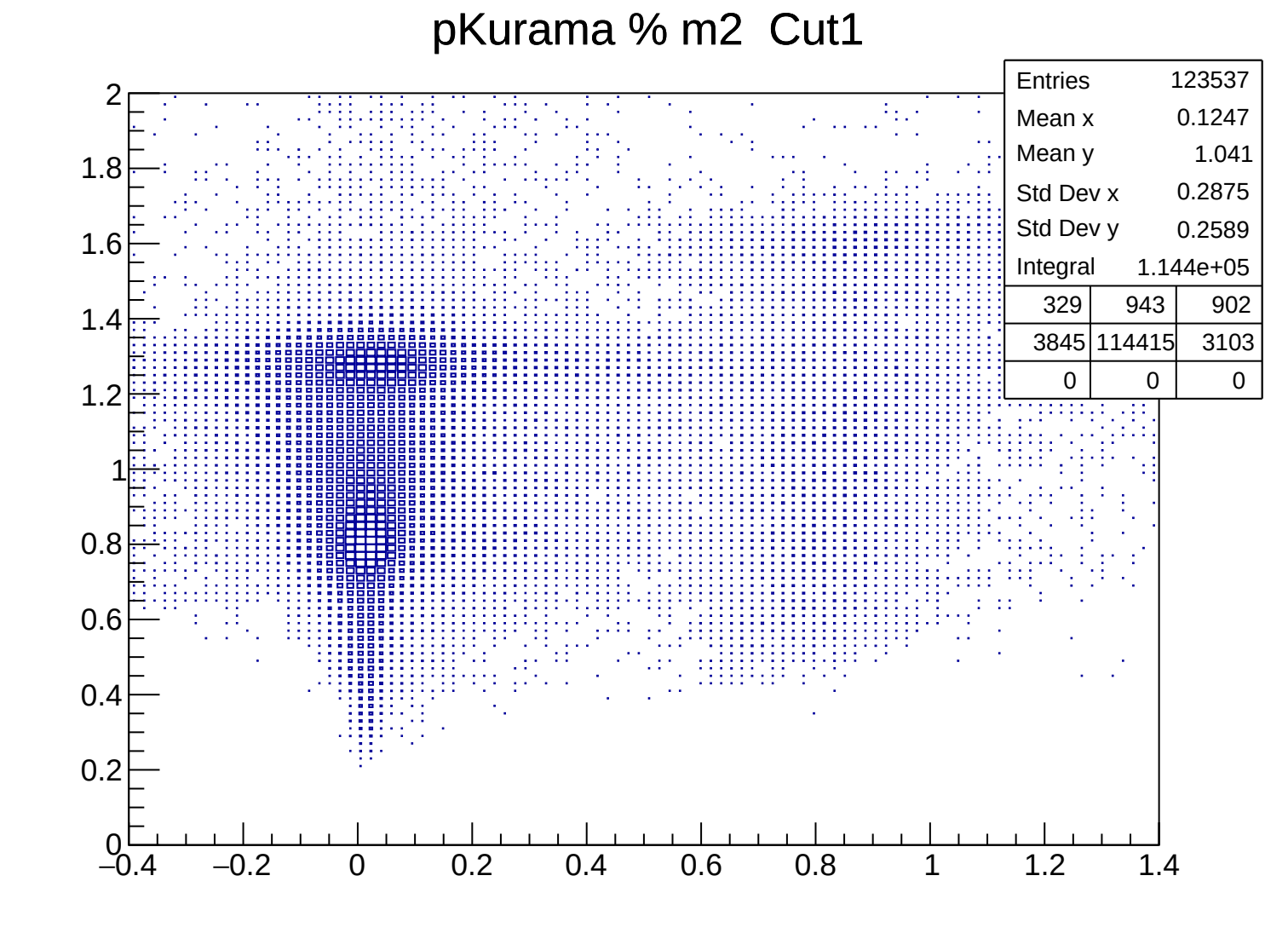

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 17.15
Std Dev x 7.479
Std Dev y 4.131
Integral 1.363e+05
0 0 0
0 136263 2
3206 0 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0

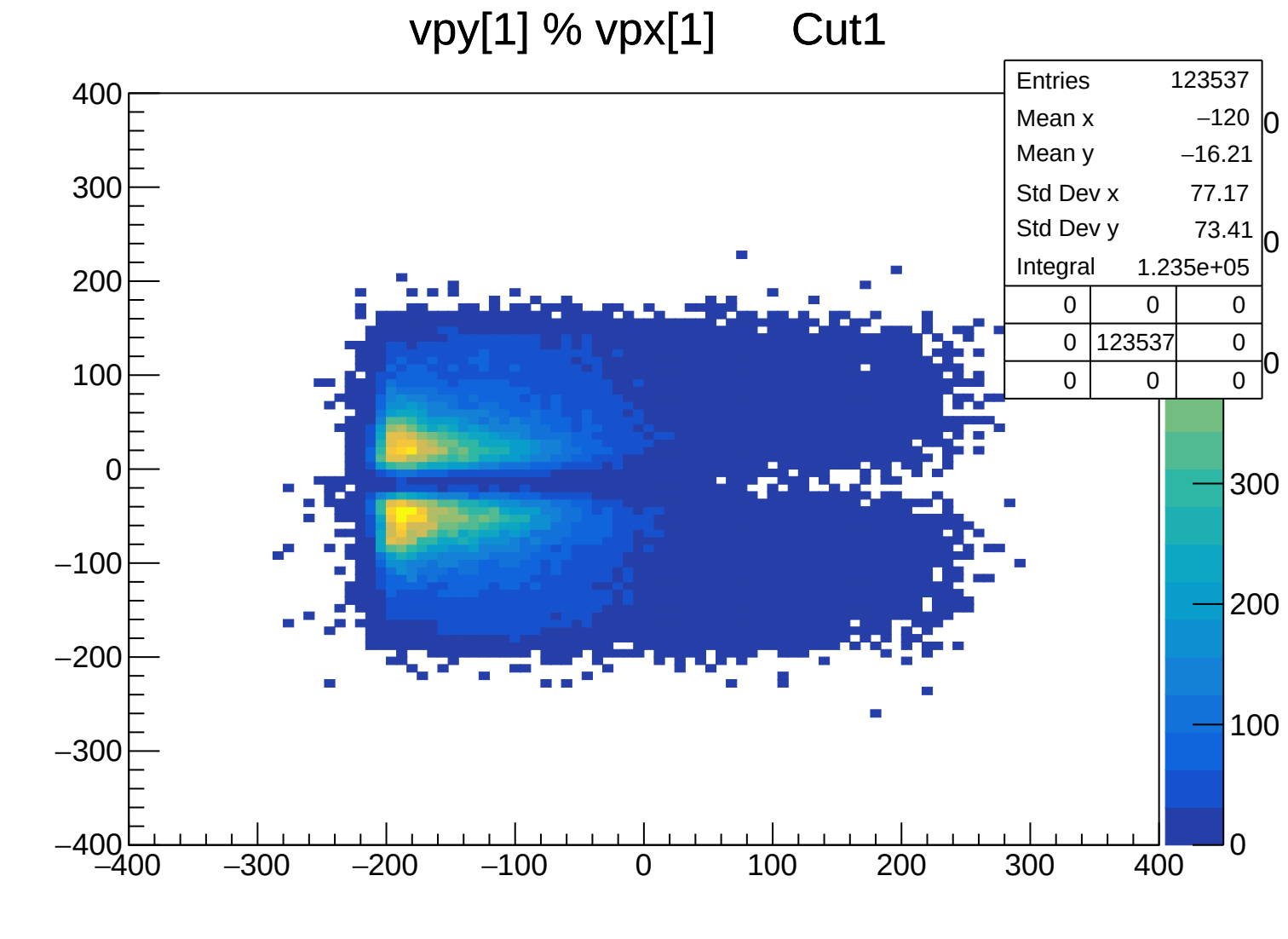

TofSeg[0] % vpseg[1]
Entries 139471
Mean x 19.29
Mean y 17.15
Std Dev x 7.479
Std Dev y 4.131
Integral 1.363e+05
0 0 0
0 136263 2
3206 0 0
25
20
15
10
5
10
20
30
40
50
60


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


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


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


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


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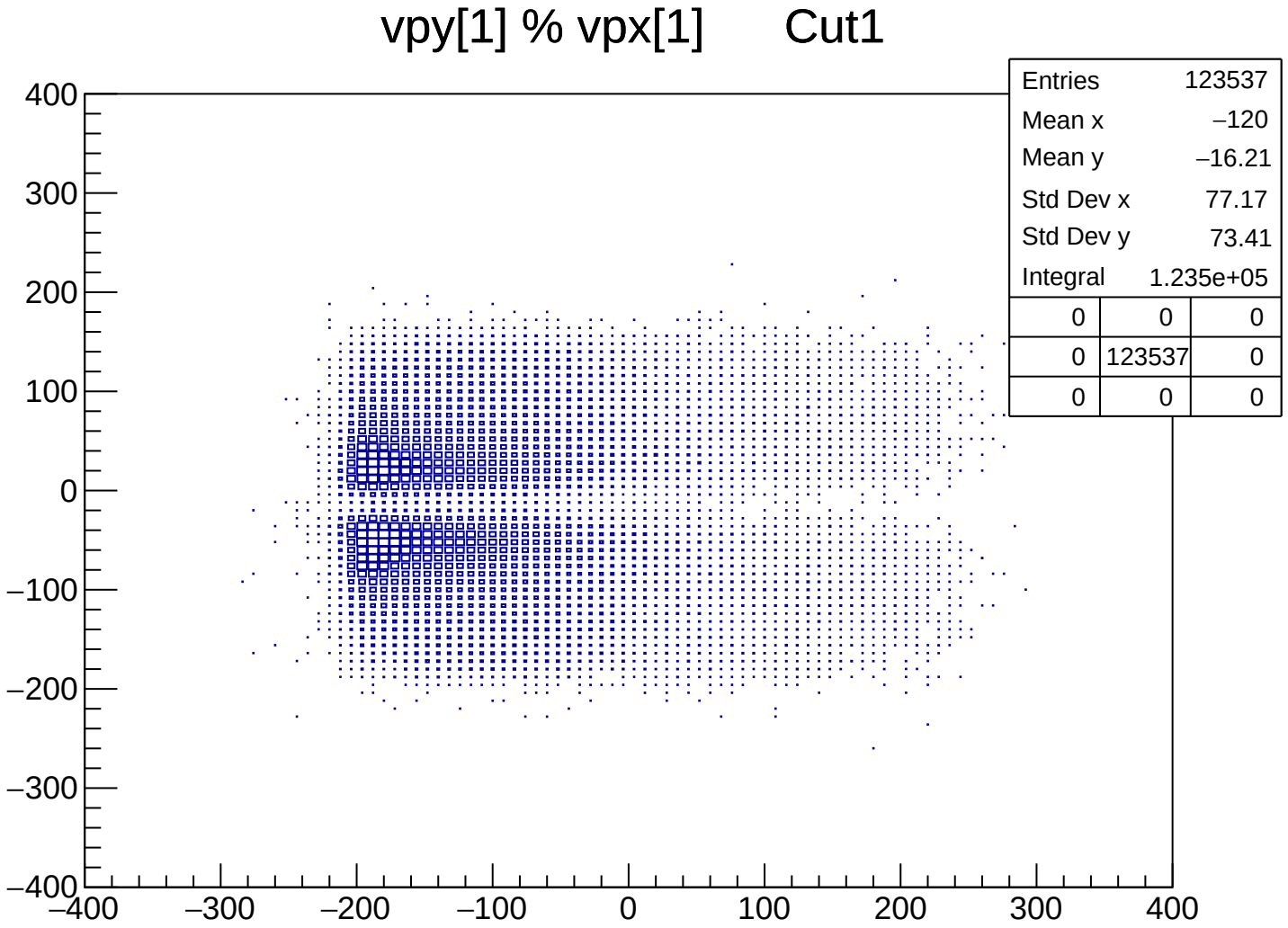
300
200
100
0


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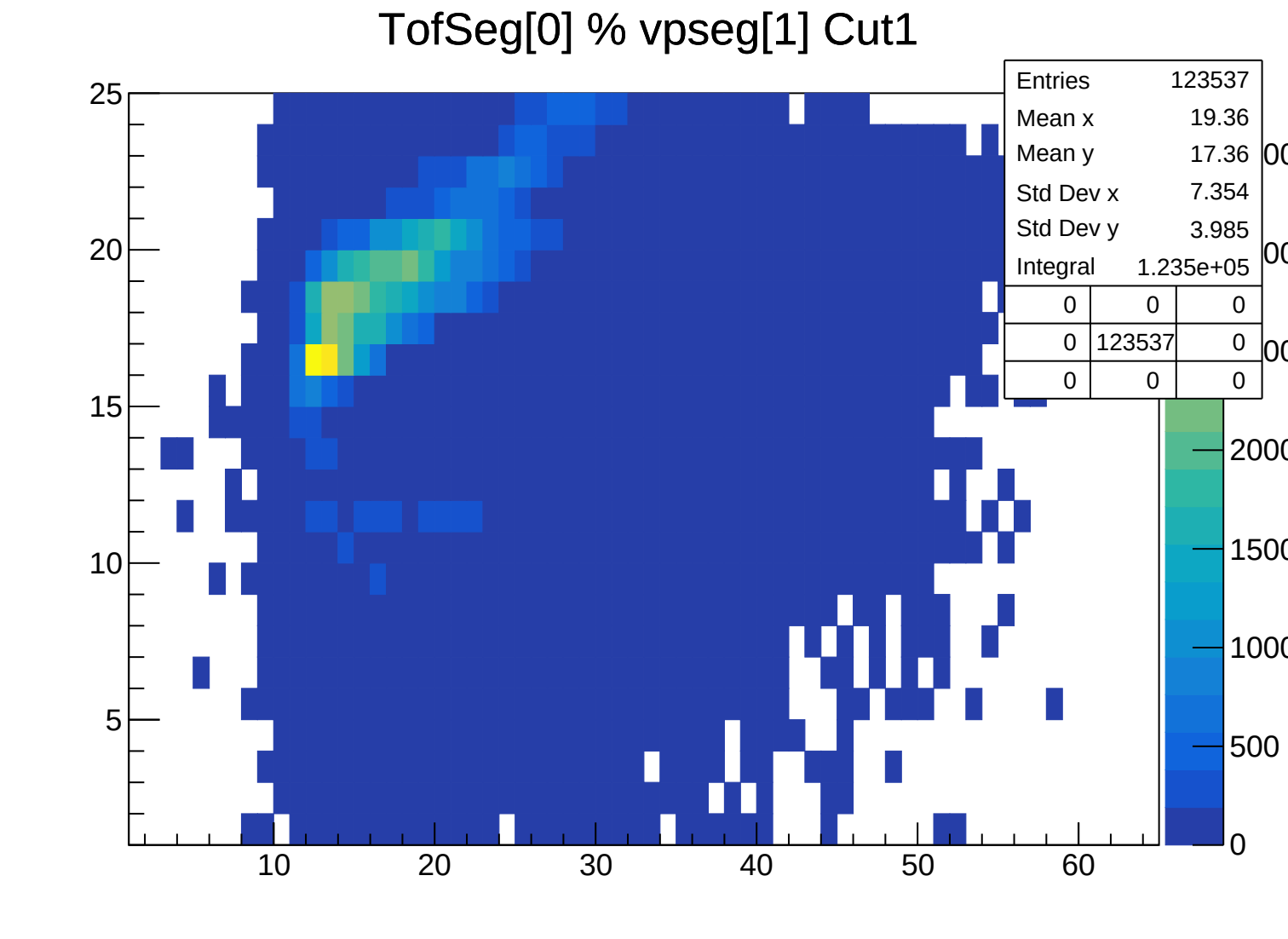
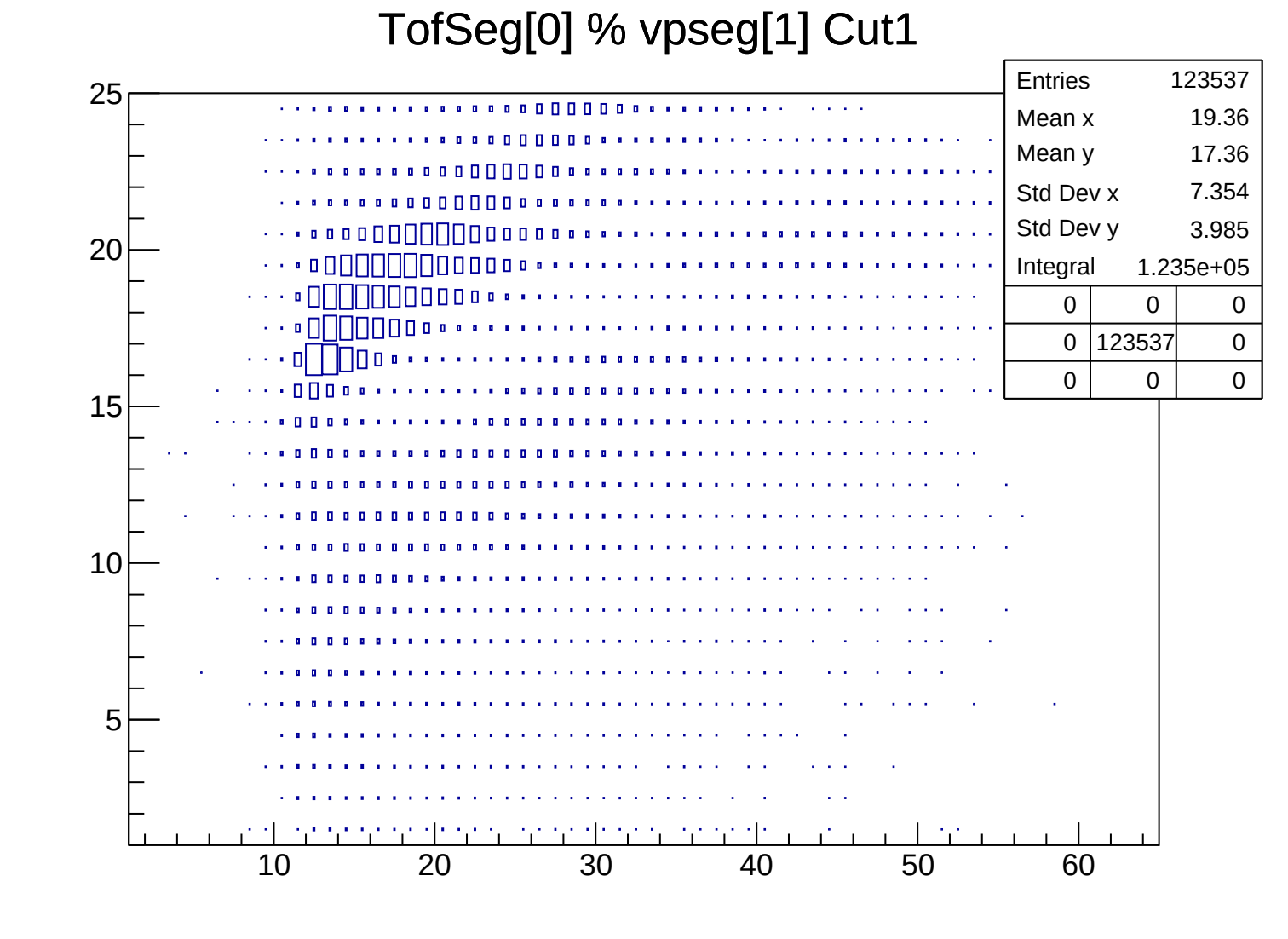
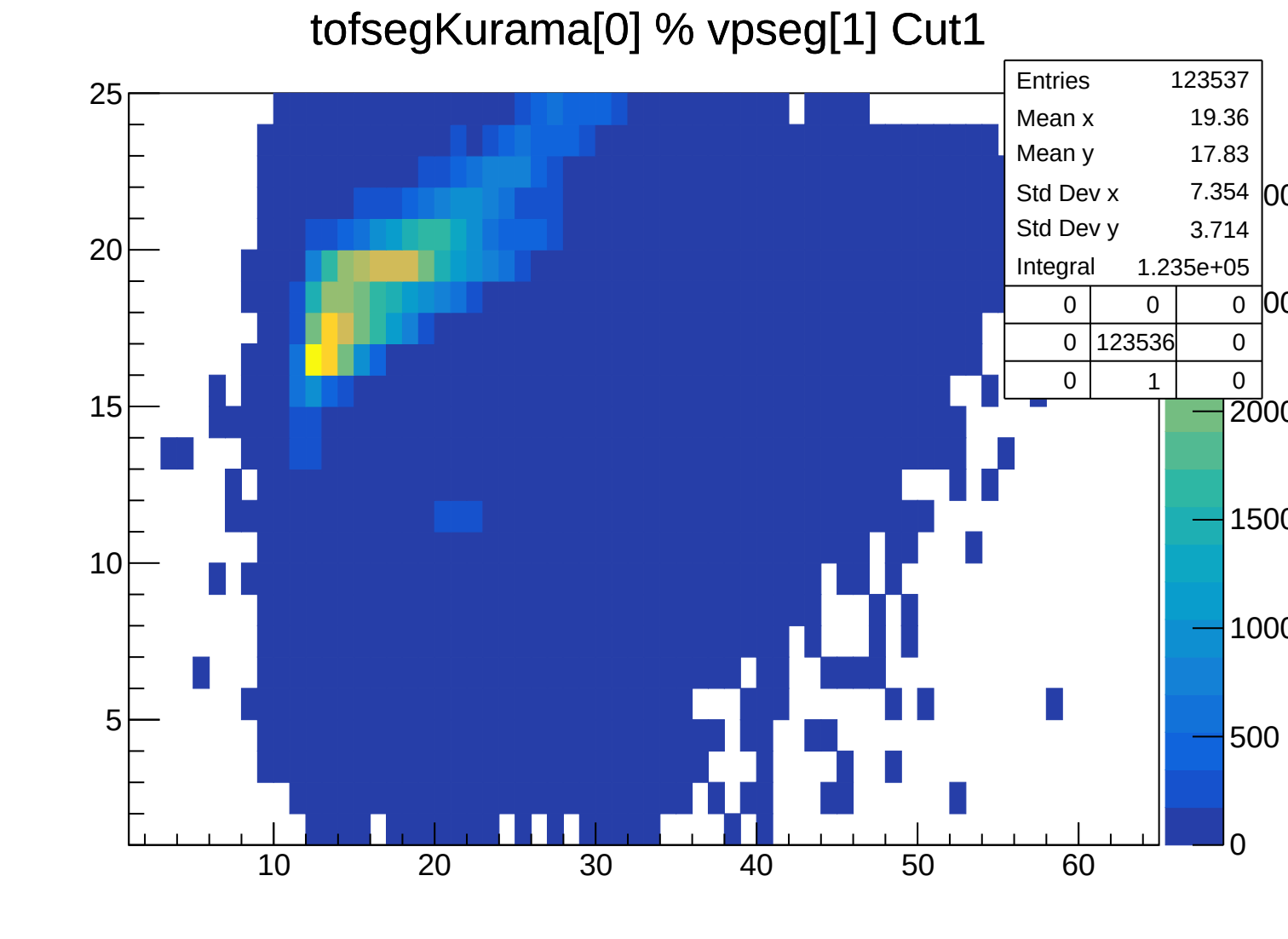
0
–100
–200
–300
–400
–400
–300
–200
–100
0
100
200
300
400


TofSeg[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.36
Mean y 17.36
Std Dev x 7.354
Std Dev y 3.985
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
2000
1500
1000
500
0


TofSeg[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.36
Mean y 17.36
Std Dev x 7.354
Std Dev y 3.985
Integral 1.235e+05
0 0 0
0 123537 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.36
Mean y 17.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
25
20
15
10
5
10
20
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40
50
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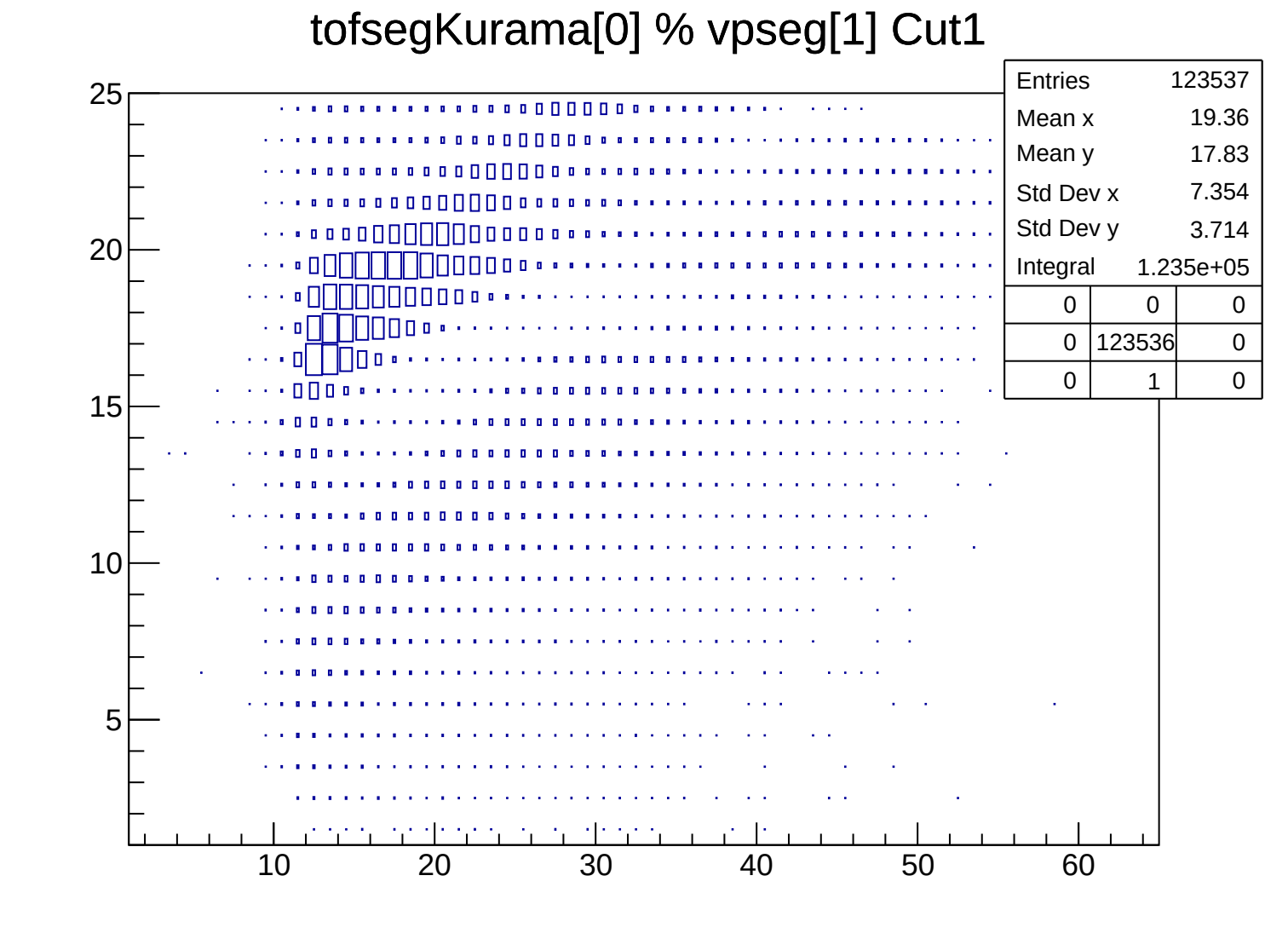
500
0


tofsegKurama[0] % vpseg[1] Cut1
Entries 123537
Mean x 19.36
Mean y 17.83
Std Dev x 7.354
Std Dev y 3.714
Integral 1.235e+05
0 0 0
0 123536 0
0 1 0
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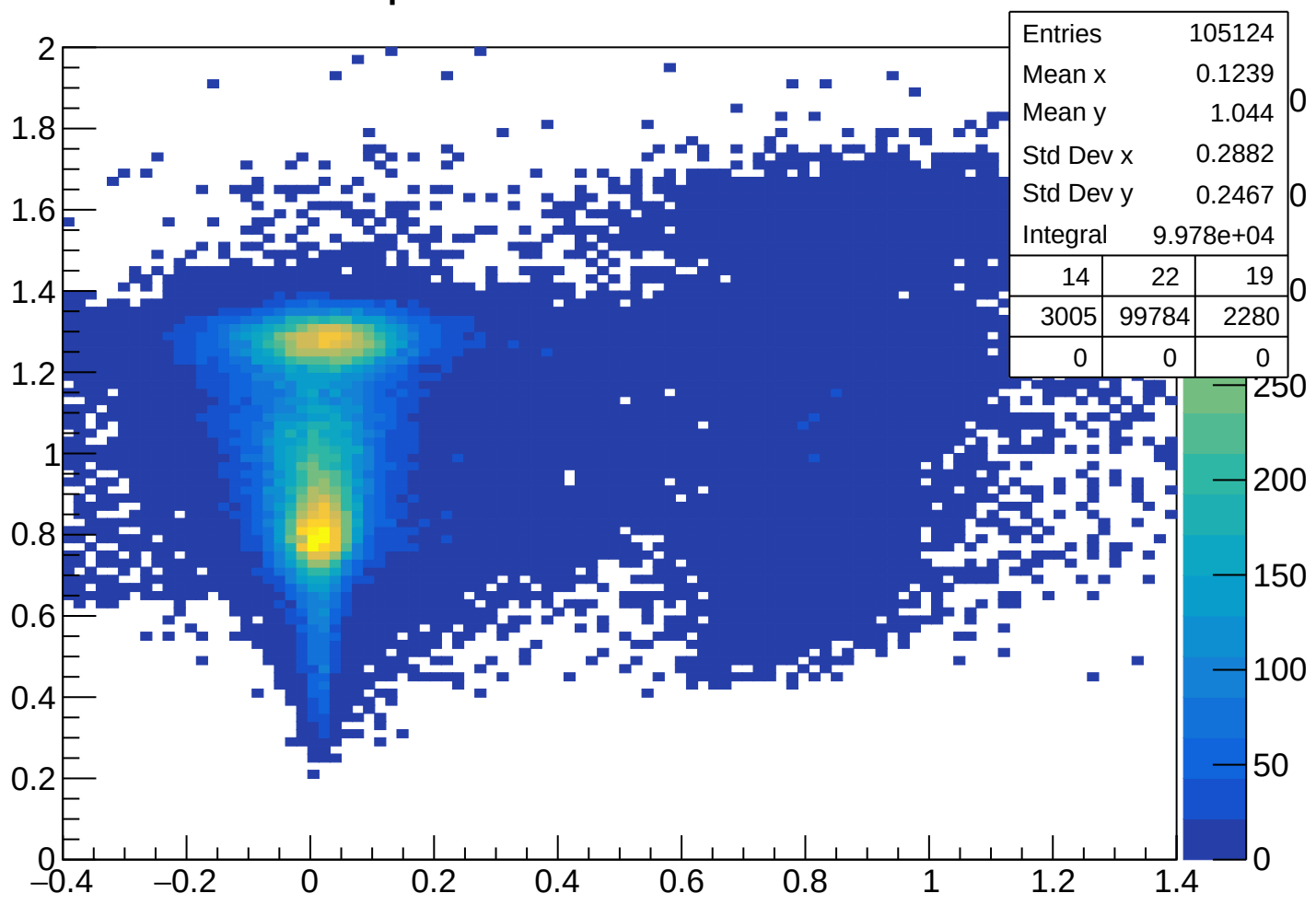
pKurama % m2 Cut2
Entries 105124
Mean x 0.1239
Mean y 1.044
Std Dev x 0.2882
Std Dev y 0.2467
Integral 9.978e+04
14 22 19
3005 99784 2280
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
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0.4
0.6
0.8
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1.2
1.4
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200
150
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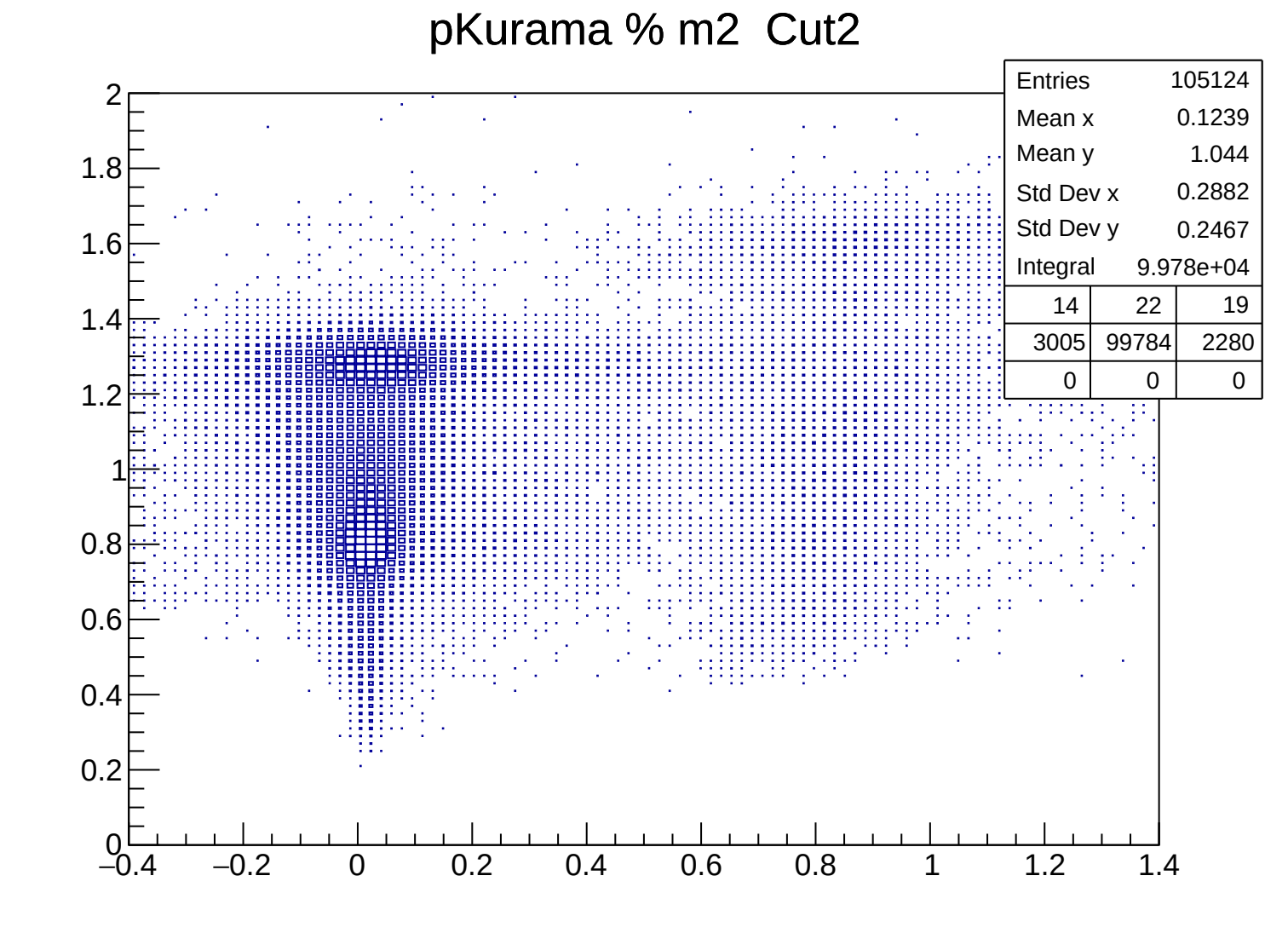
50
0


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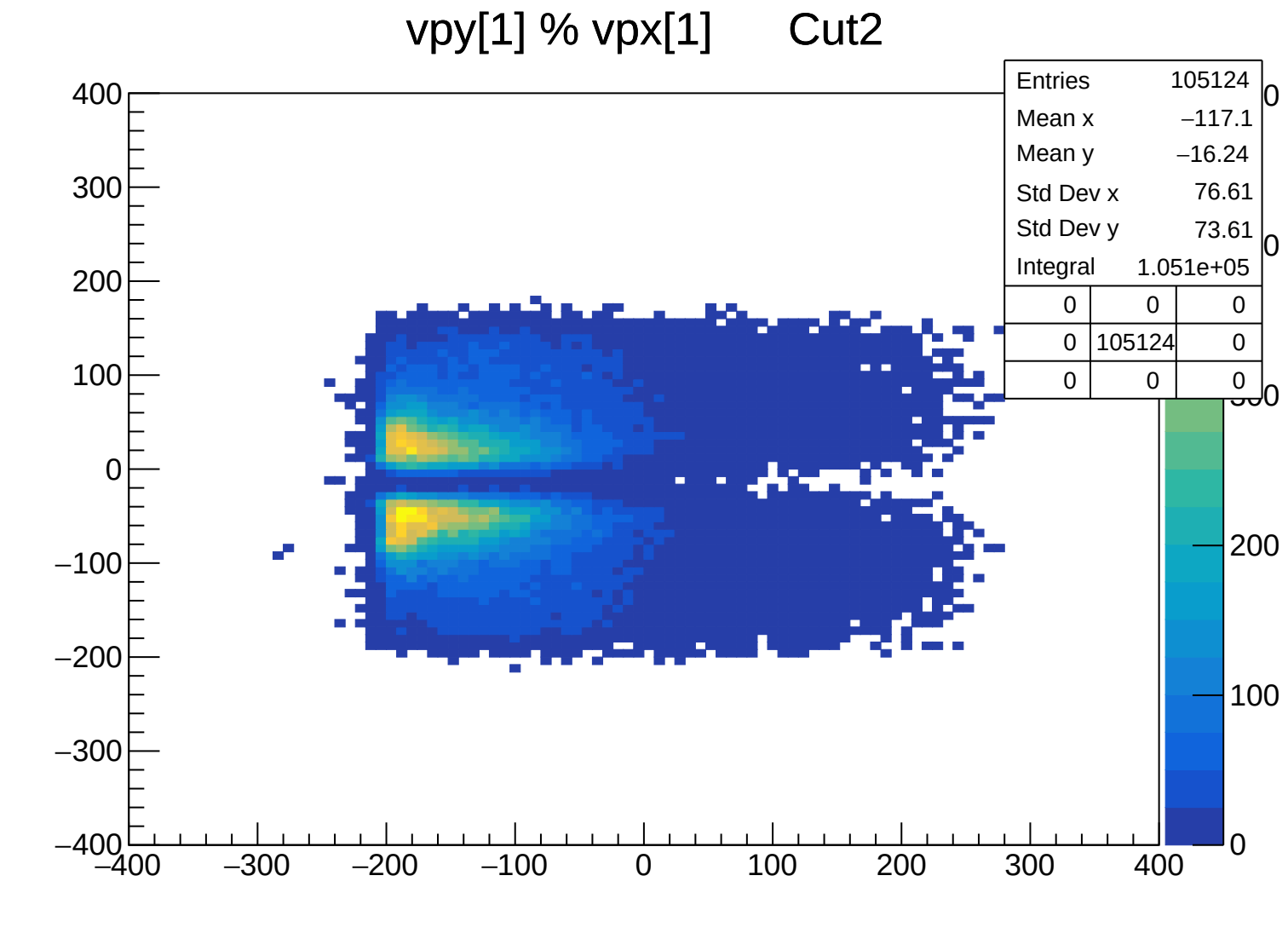
0.6
0.8
1
1.2
1.4


vpy[1] % vpx[1] Cut2
Entries 105124
Mean x −117.1
Mean y −16.24
Std Dev x 76.61
Std Dev y 73.61
Integral 1.051e+05
0 0 0
0 105124 0
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200
100
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−200
−300
−400
−400 −300 −200 −100 0 100 200 300 400
200
100
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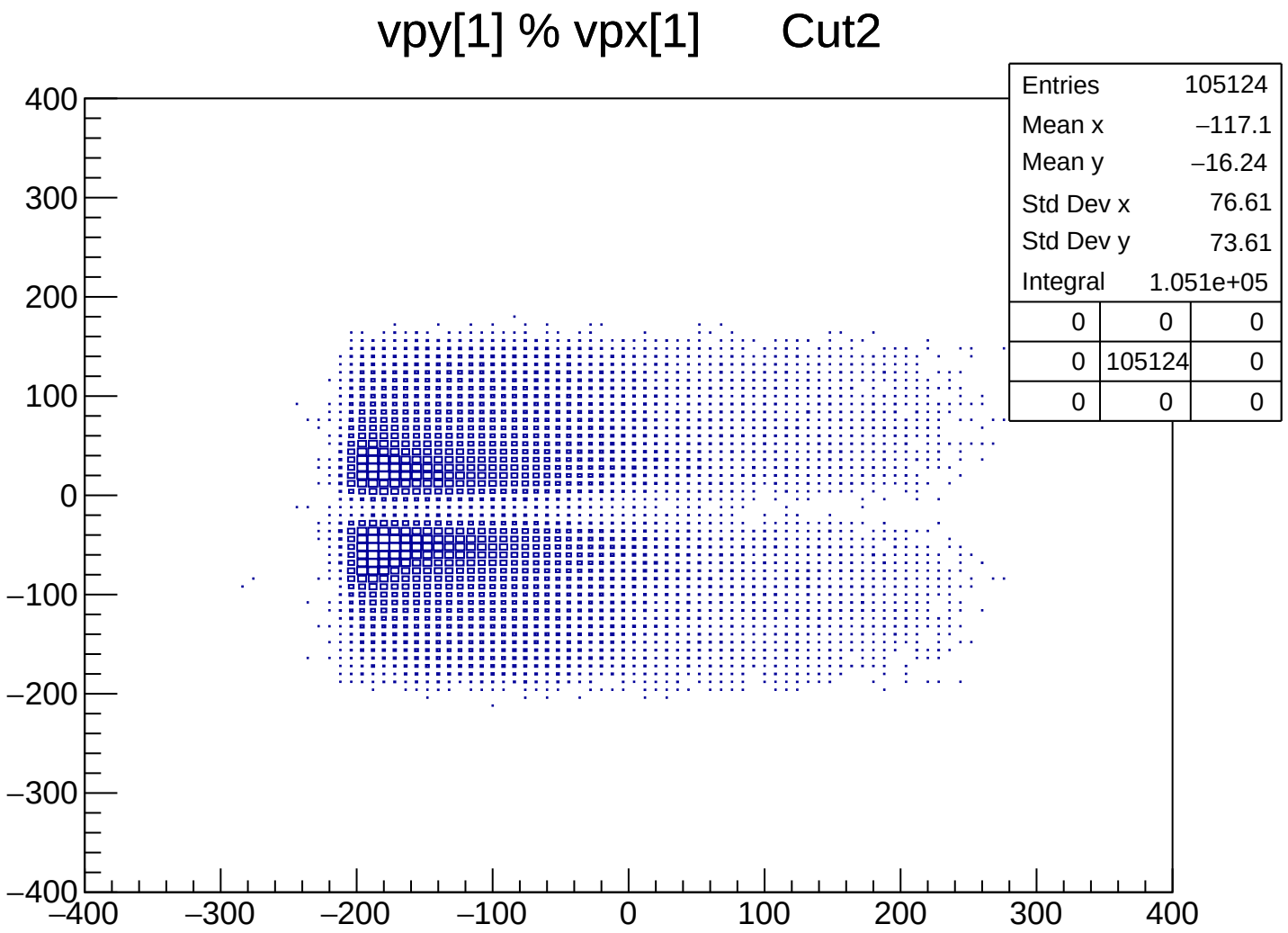
vpy[1] % vpx[1] Cut2
Entries 105124
Mean x –117.1
Mean y –16.24
Std Dev x 76.61
Std Dev y 73.61
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
400
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–200
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–200
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100
200
300
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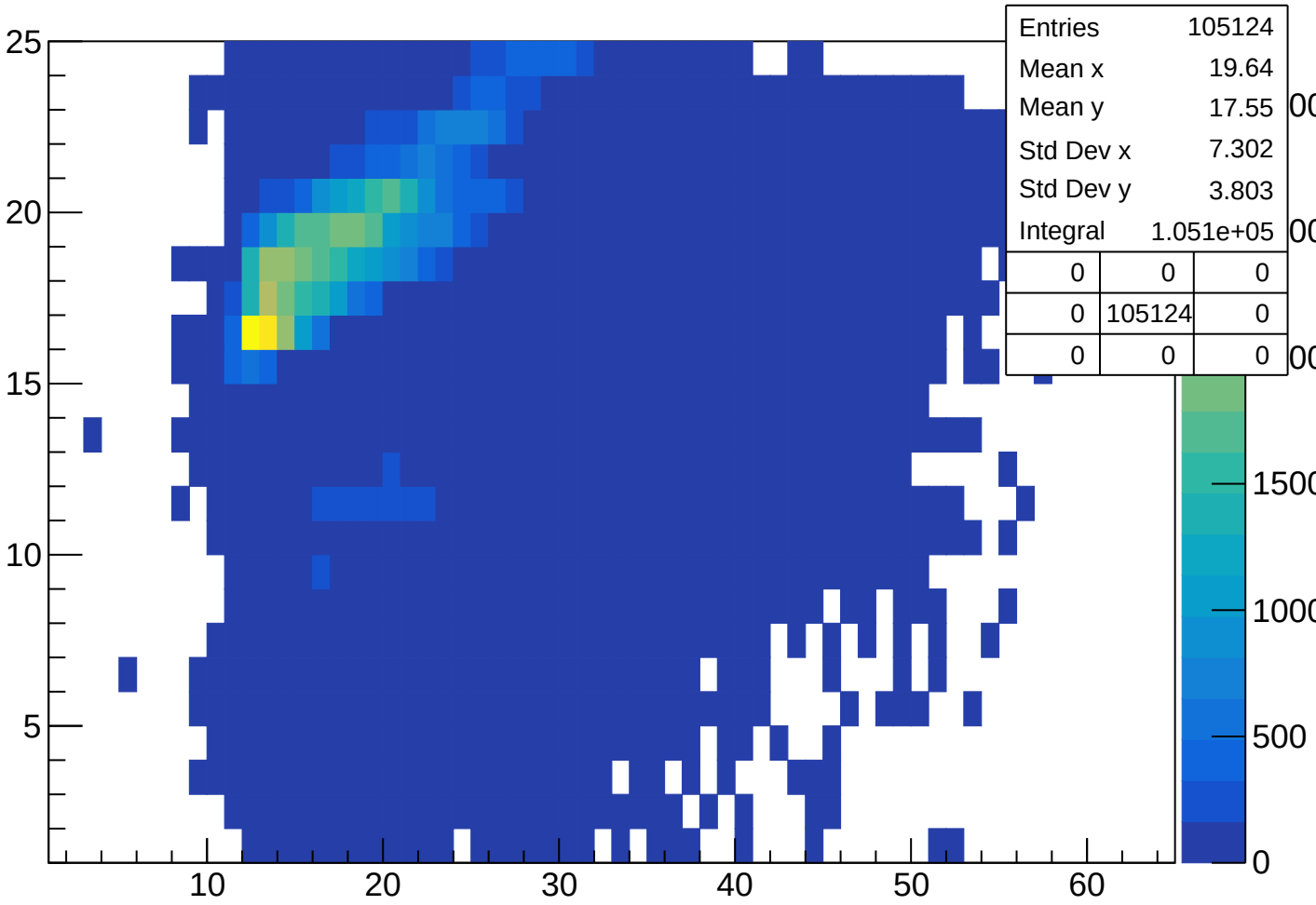
TofSeg[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 17.55
Std Dev x 7.302
Std Dev y 3.803
Integral 1.051e+05
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0 105124 0
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500
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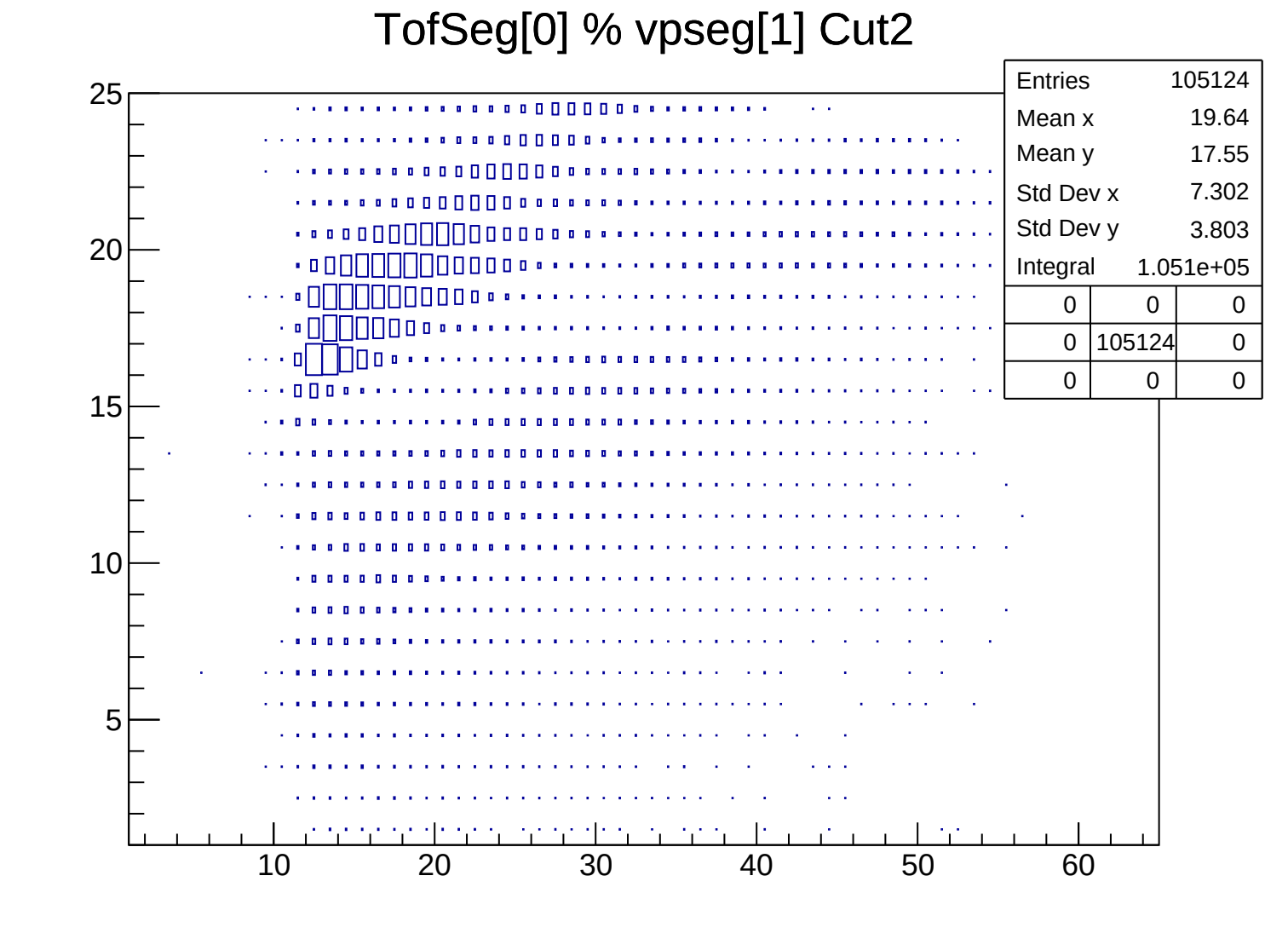
TofSeg[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 17.55
Std Dev x 7.302
Std Dev y 3.803
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
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30
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50
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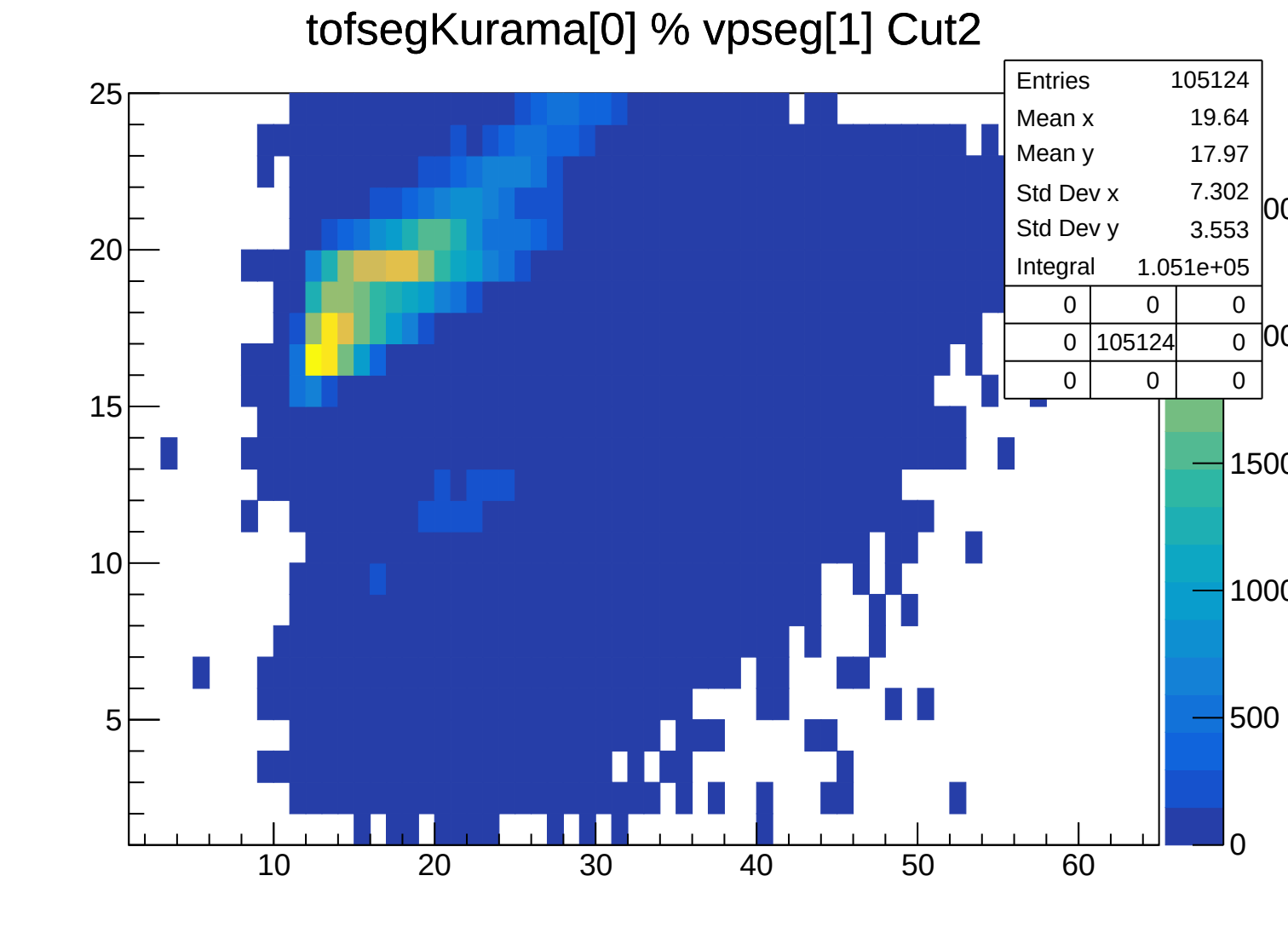
tofsegKurama[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 17.97
Std Dev x 7.302
Std Dev y 3.553
Integral 1.051e+05
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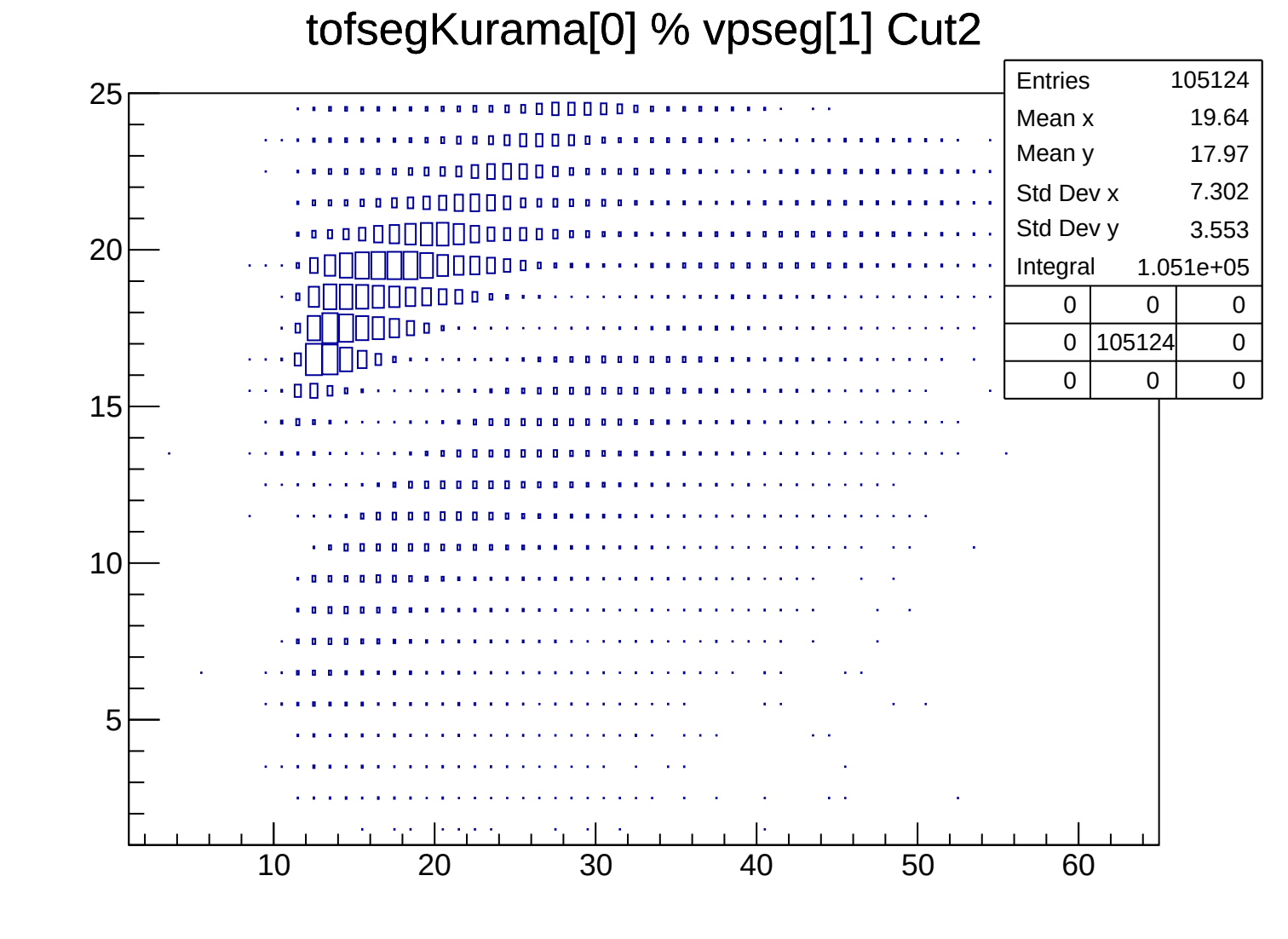
tofsegKurama[0] % vpseg[1] Cut2
Entries 105124
Mean x 19.64
Mean y 17.97
Std Dev x 7.302
Std Dev y 3.553
Integral 1.051e+05
0 0 0
0 105124 0
0 0 0
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30
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50
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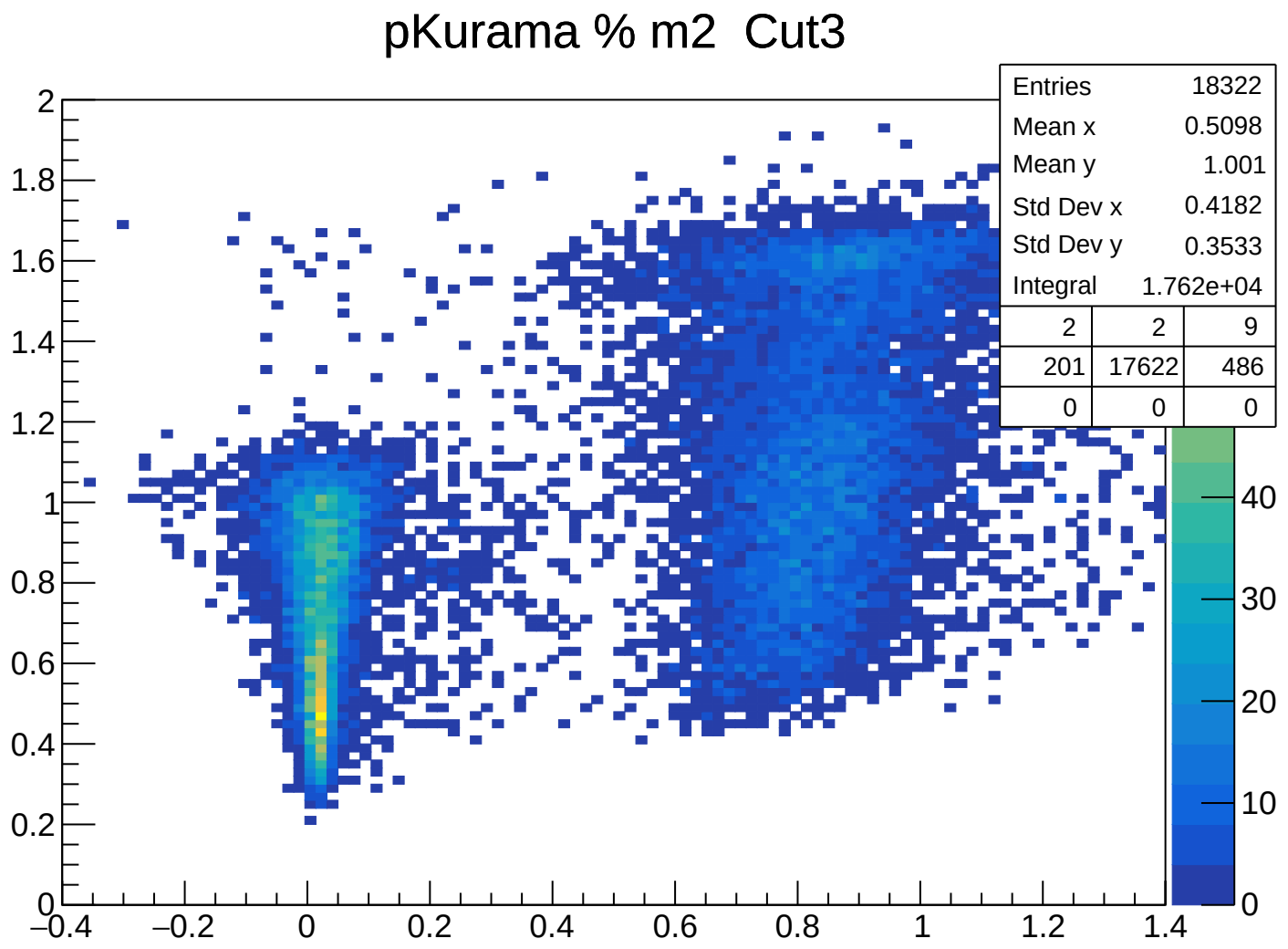
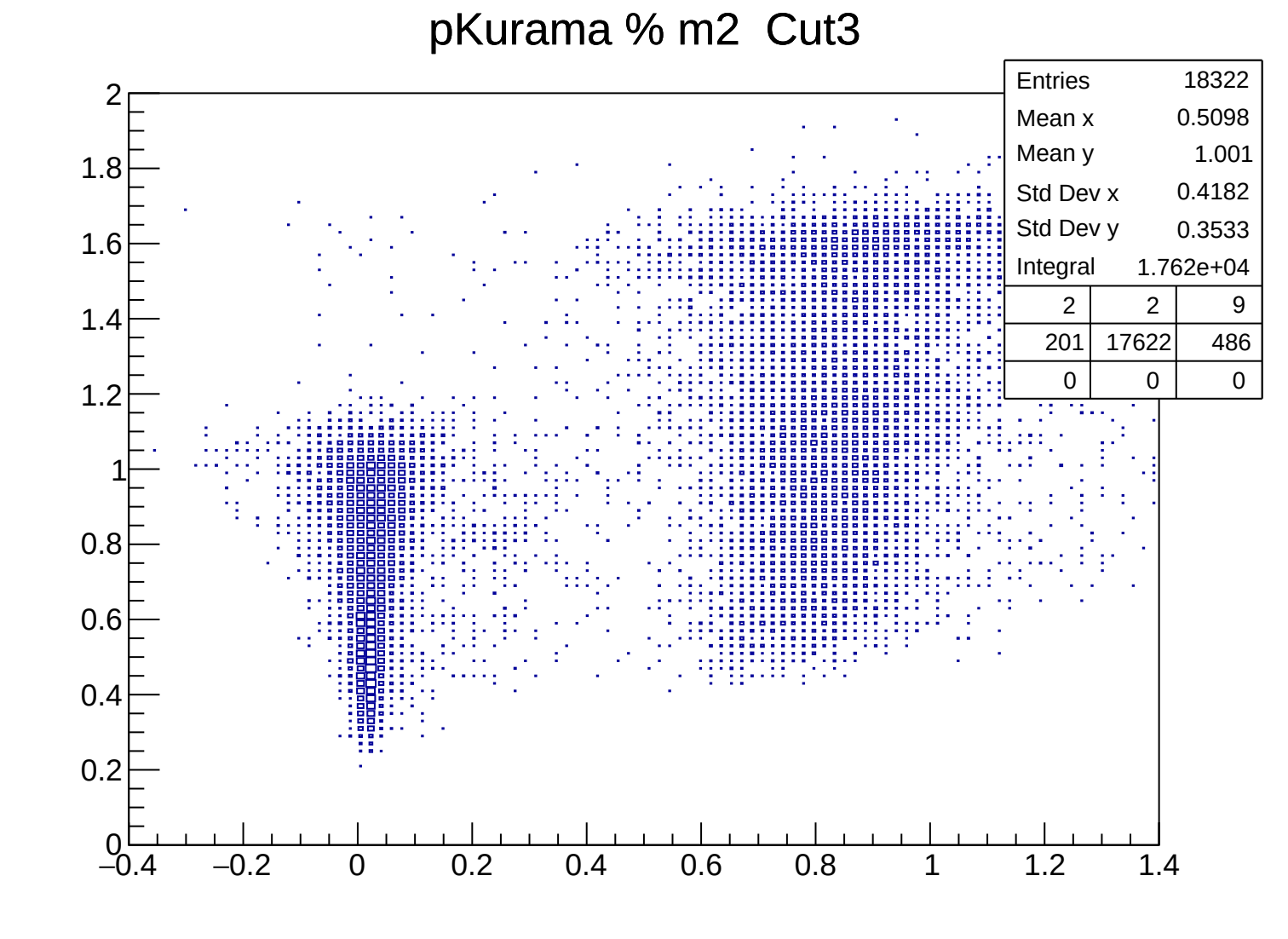
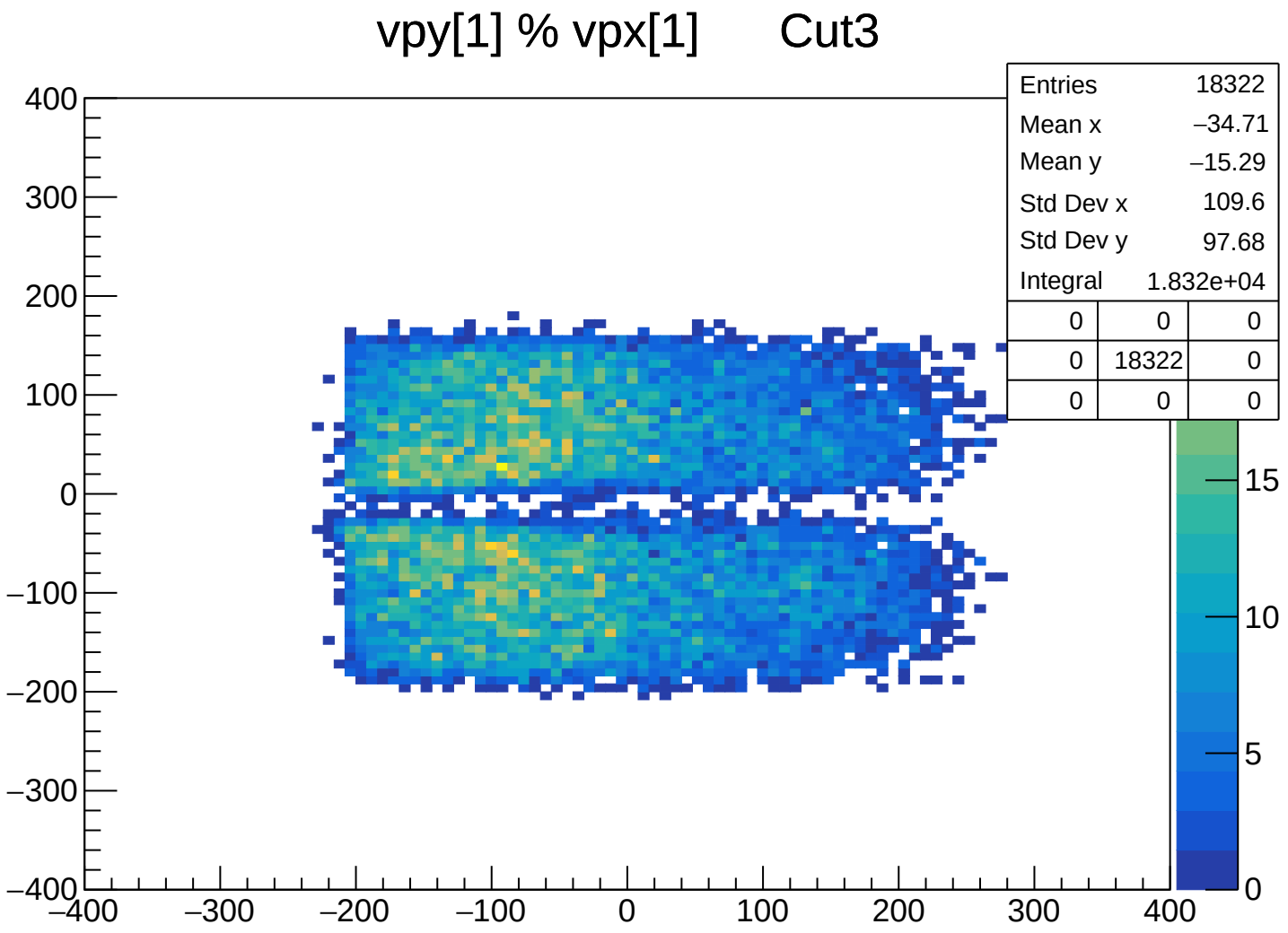

pKurama % m2 Cut3
Entries 18322
Mean x 0.5098
Mean y 1.001
Std Dev x 0.4182
Std Dev y 0.3533
Integral 1.762e+04
2 2 9
201 17622 486
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
40
30
20
10
0


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


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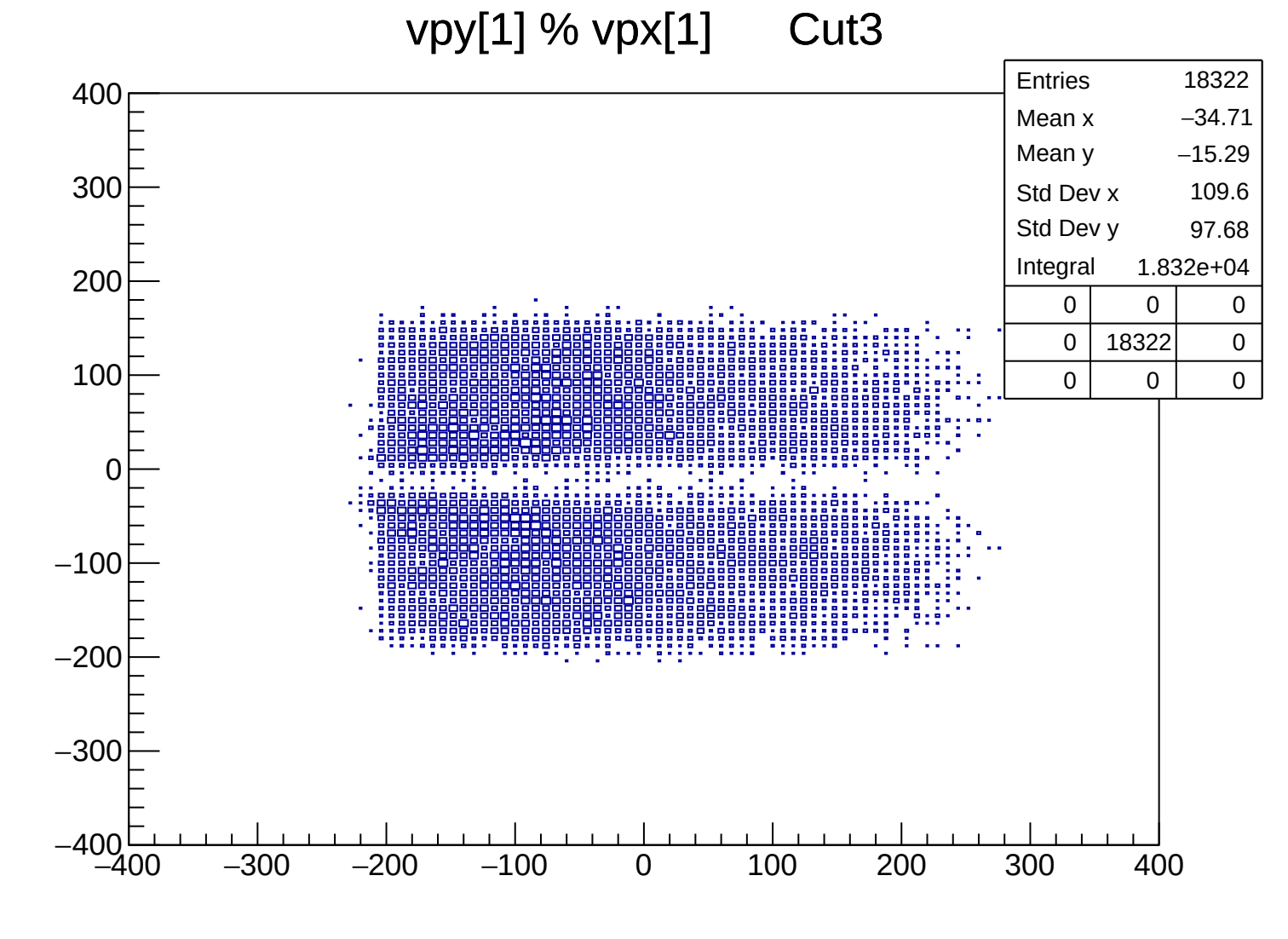
15
10
5
0


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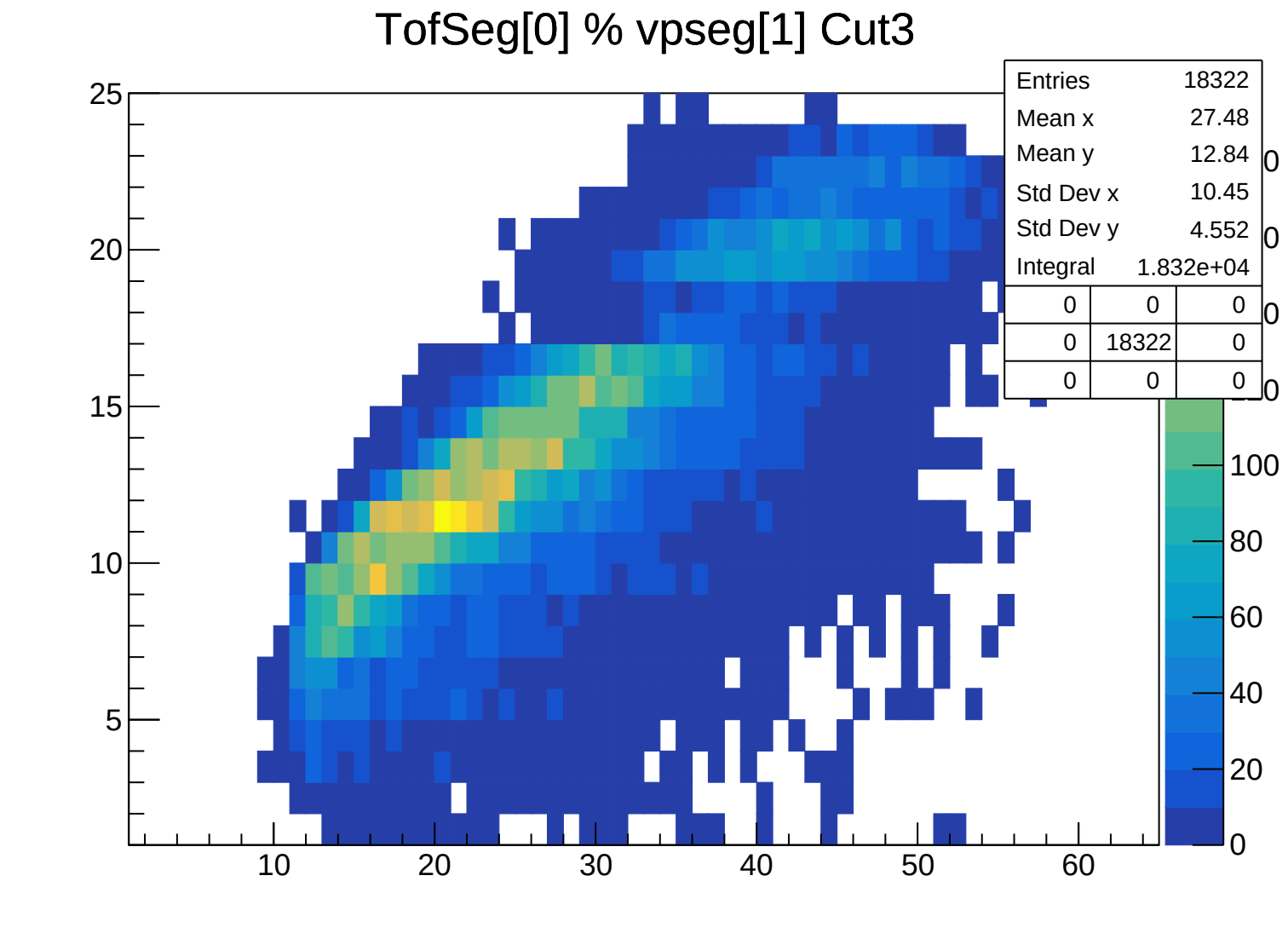
100
200
300
400


TofSeg[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.45
Std Dev y 4.552
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
25
20
15
10
5
10
20
30
40
50
60
100
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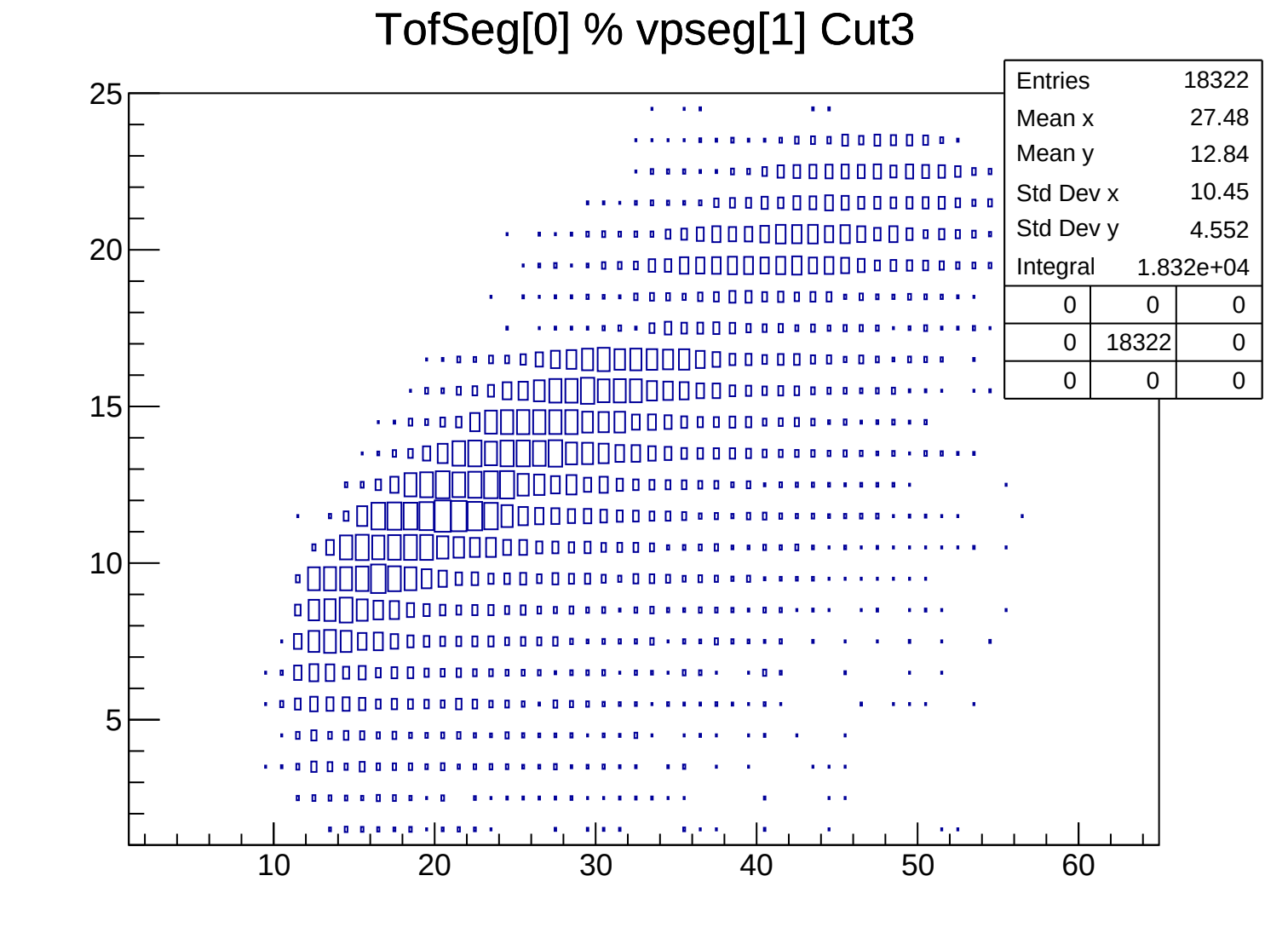
60
40
20
0


TofSeg[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.45
Std Dev y 4.552
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
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10
5
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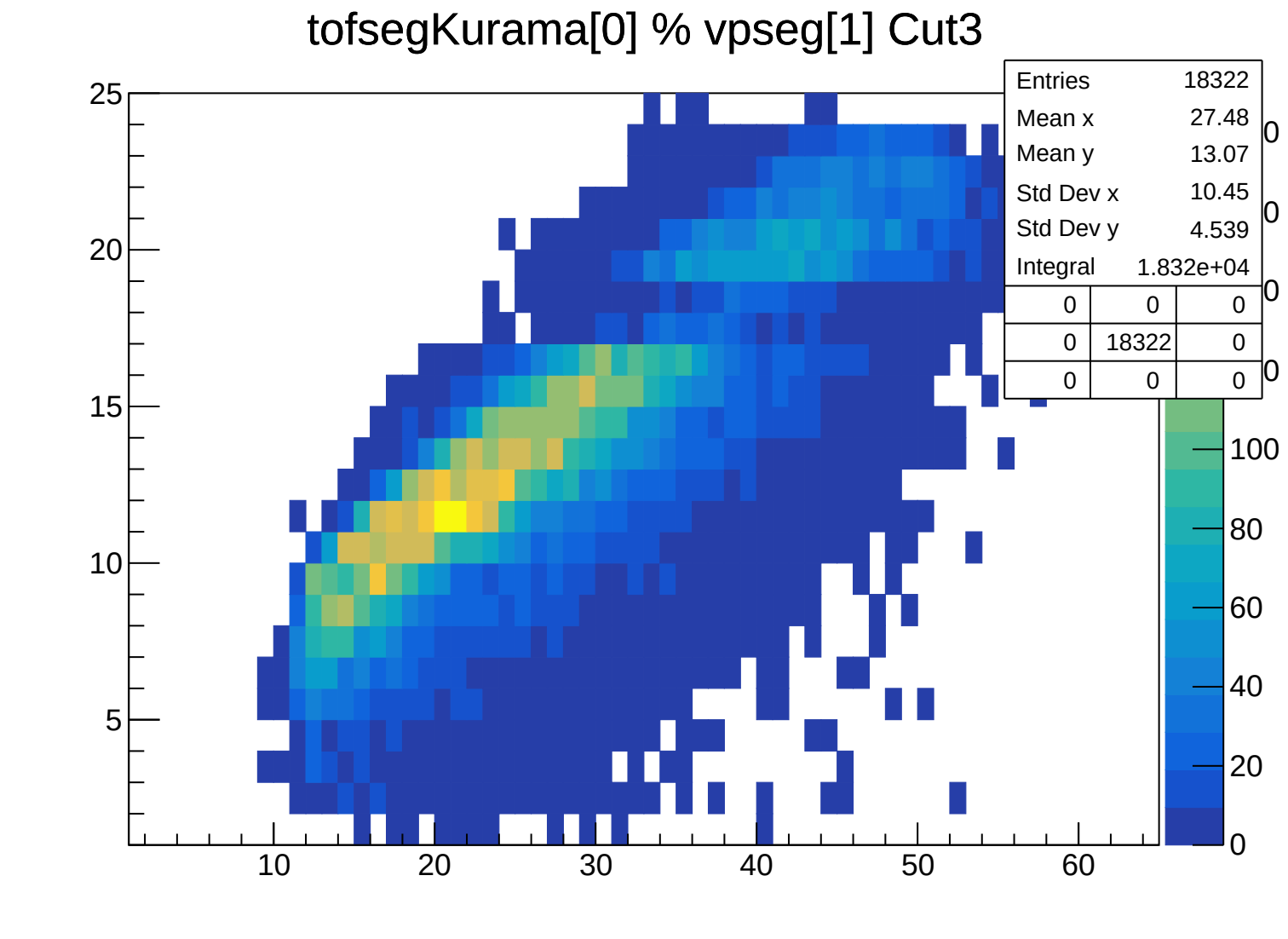
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 13.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
0 0 0
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0 0 0
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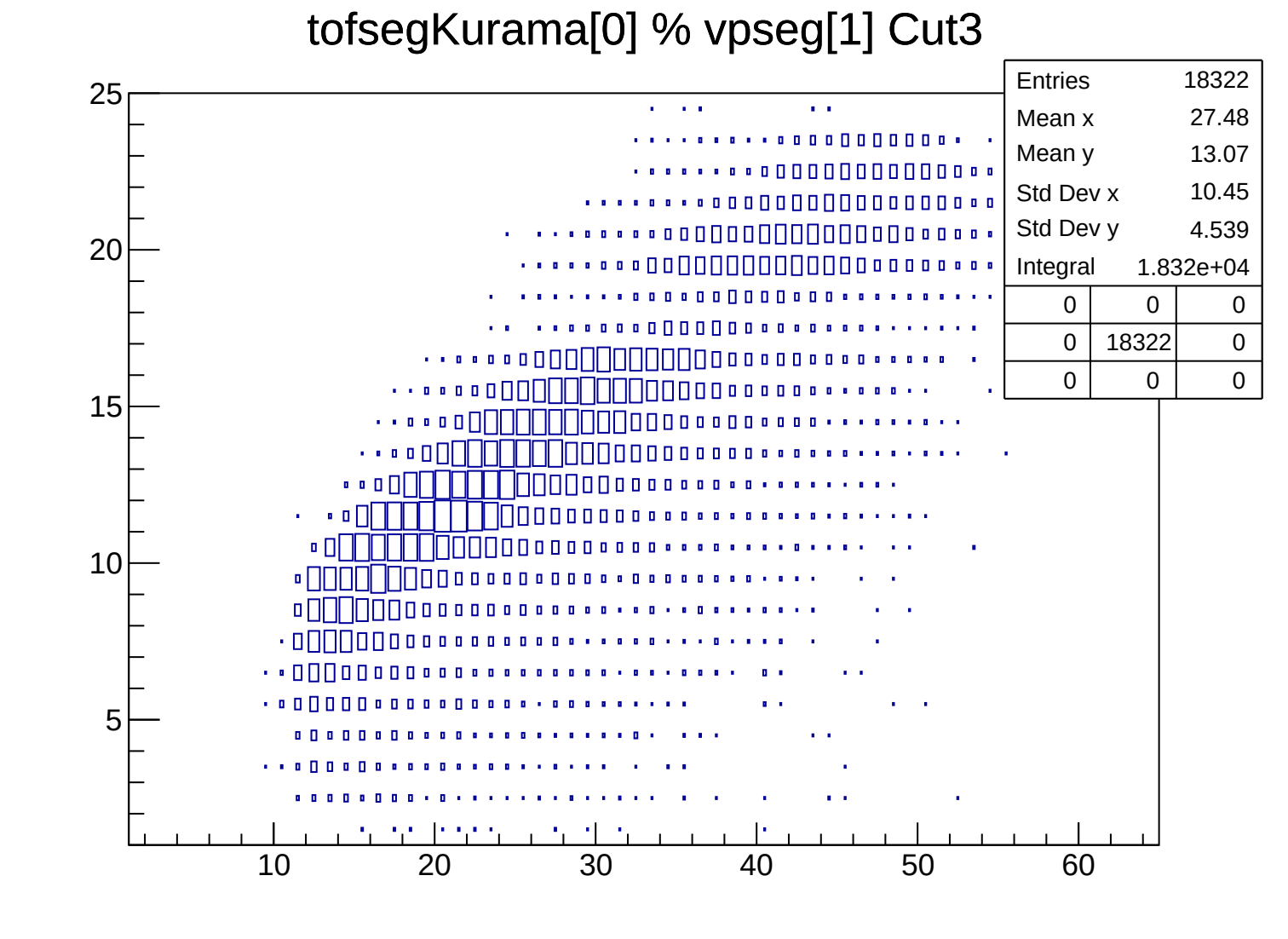
tofsegKurama[0] % vpseg[1] Cut3
Entries 18322
Mean x 27.48
Mean y 13.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
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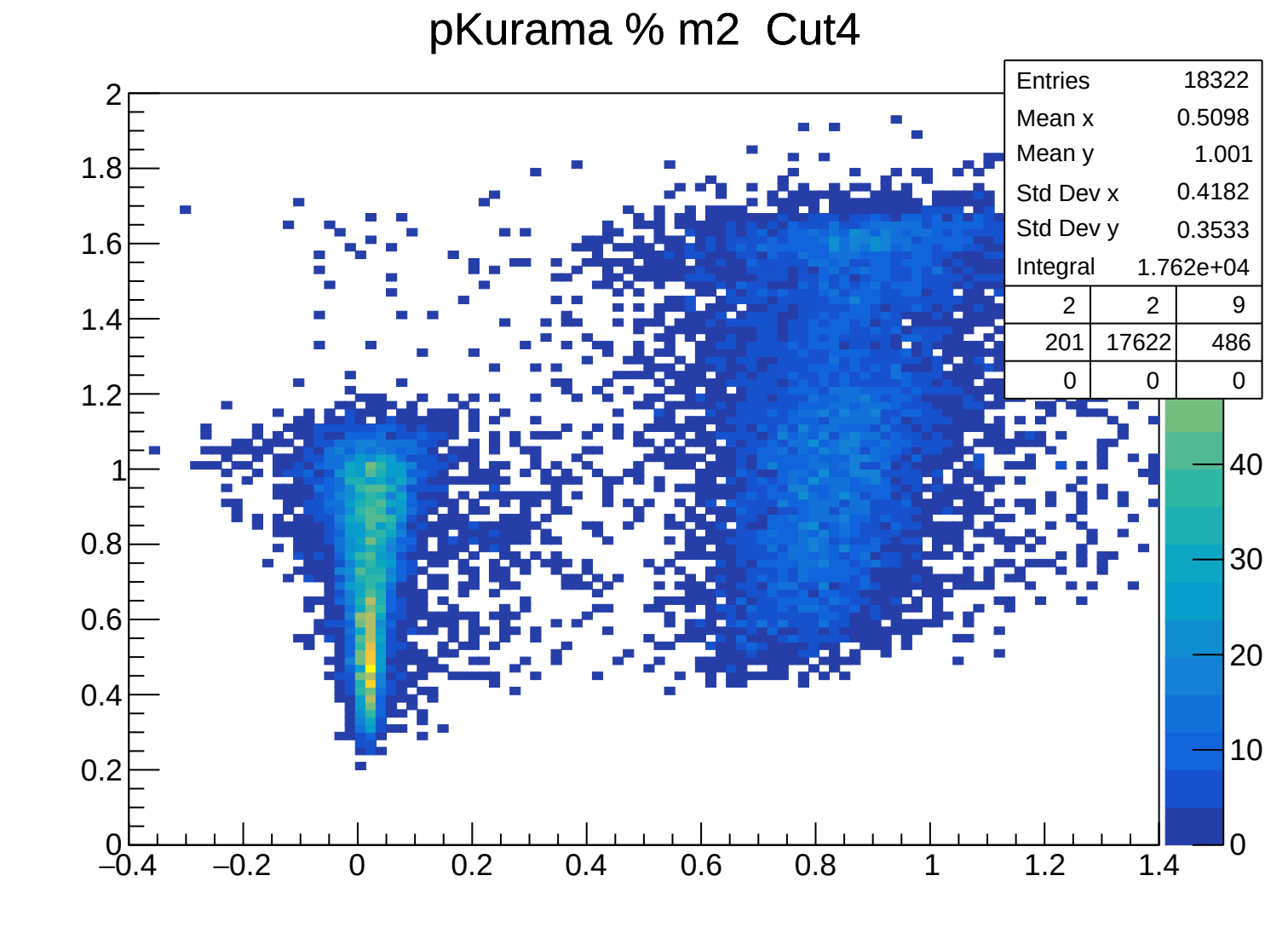
pKurama % m2 Cut4
Entries 18322
Mean x 0.5098
Mean y 1.001
Std Dev x 0.4182
Std Dev y 0.3533
Integral 1.762e+04
2 2 9
201 17622 486
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
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0.2
0.4
0.6
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1.2
1.4
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30
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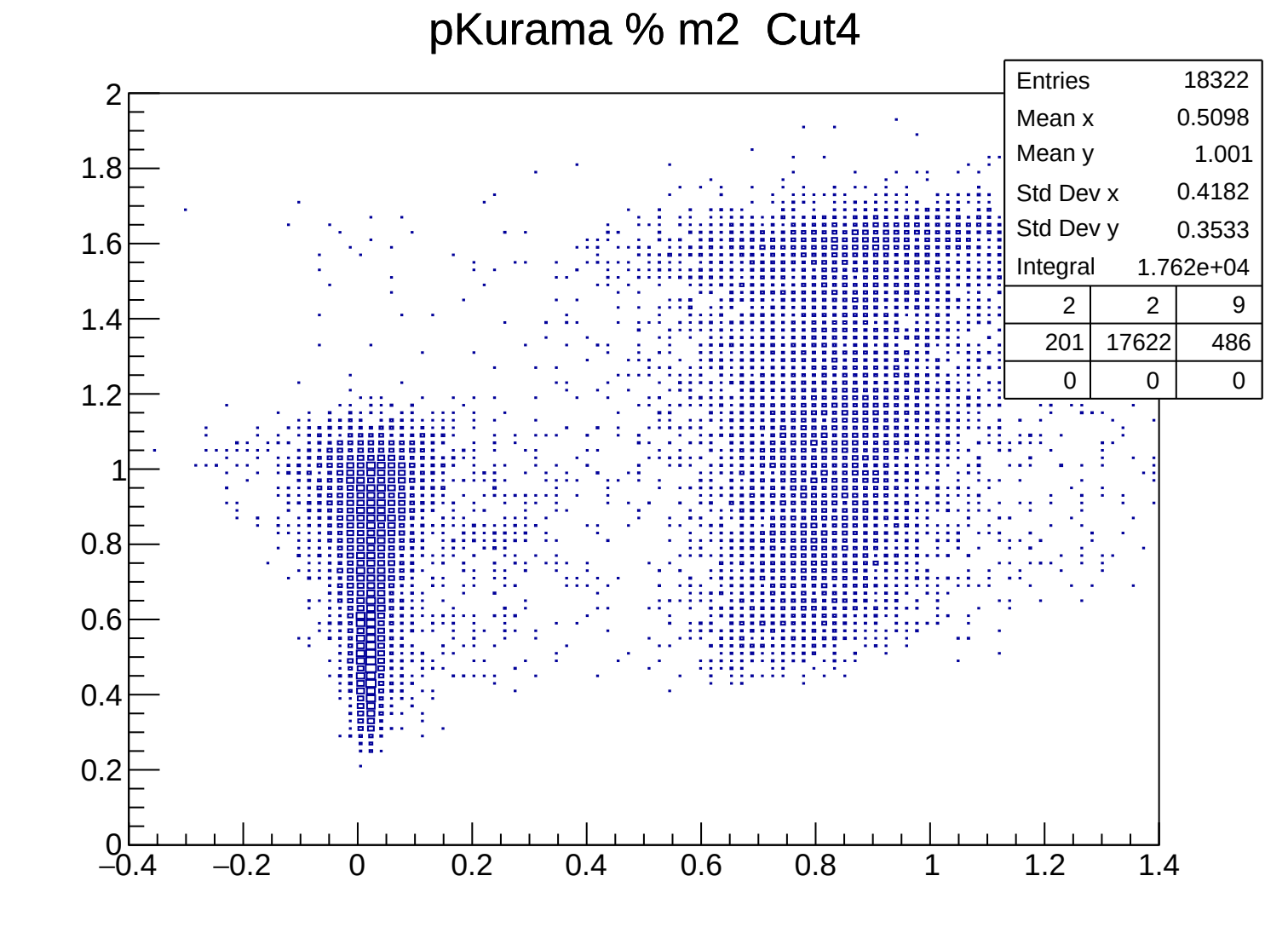
10
0


pKurama % m2 Cut4
Entries 18322
Mean x 0.5098
Mean y 1.001
Std Dev x 0.4182
Std Dev y 0.3533
Integral 1.762e+04
2 2 9
201 17622 486
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
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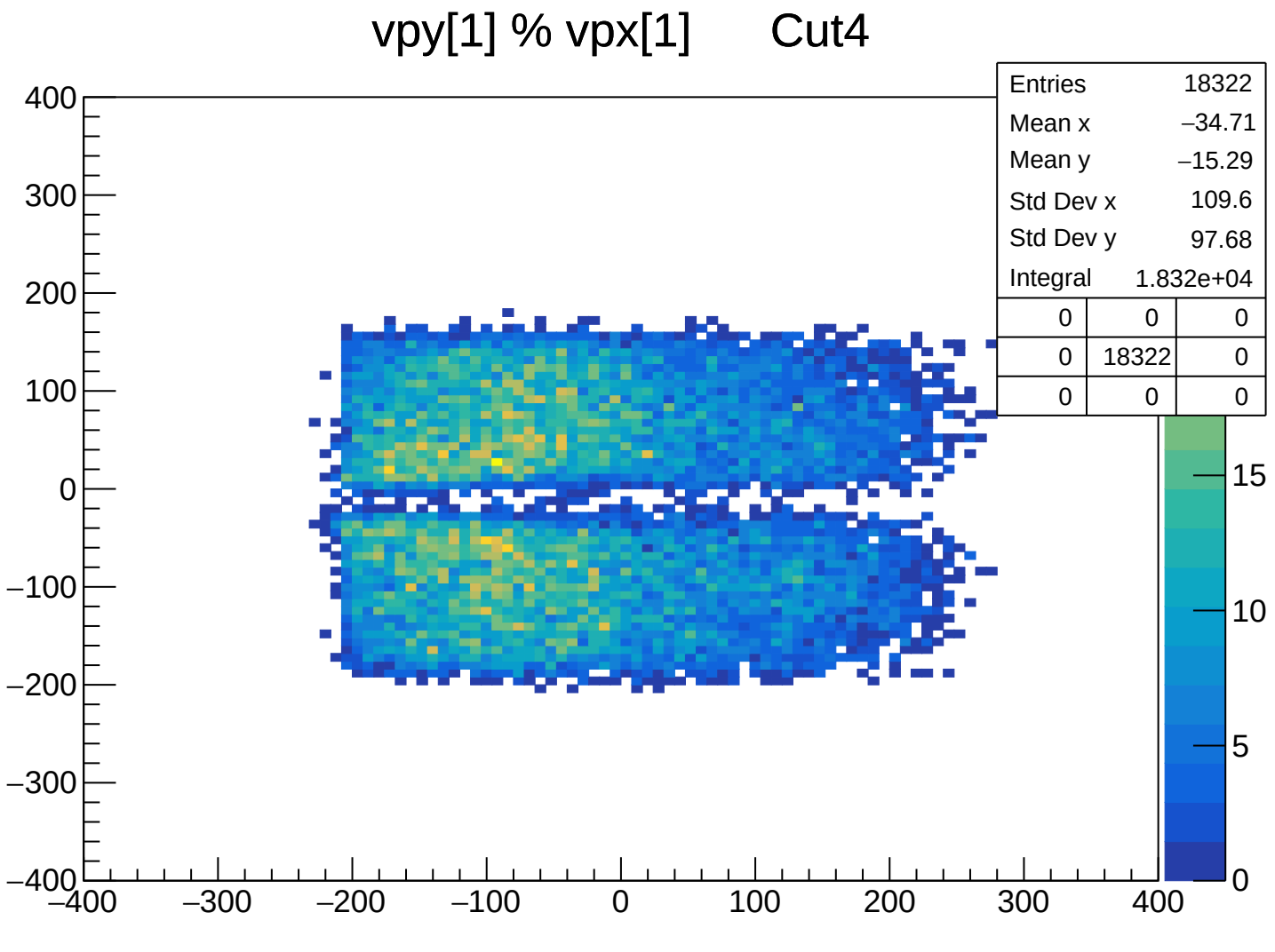
0.6
0.8
1
1.2
1.4


vpy[1] % vpx[1] Cut4
Entries 18322
Mean x –34.71
Mean y –15.29
Std Dev x 109.6
Std Dev y 97.68
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
400
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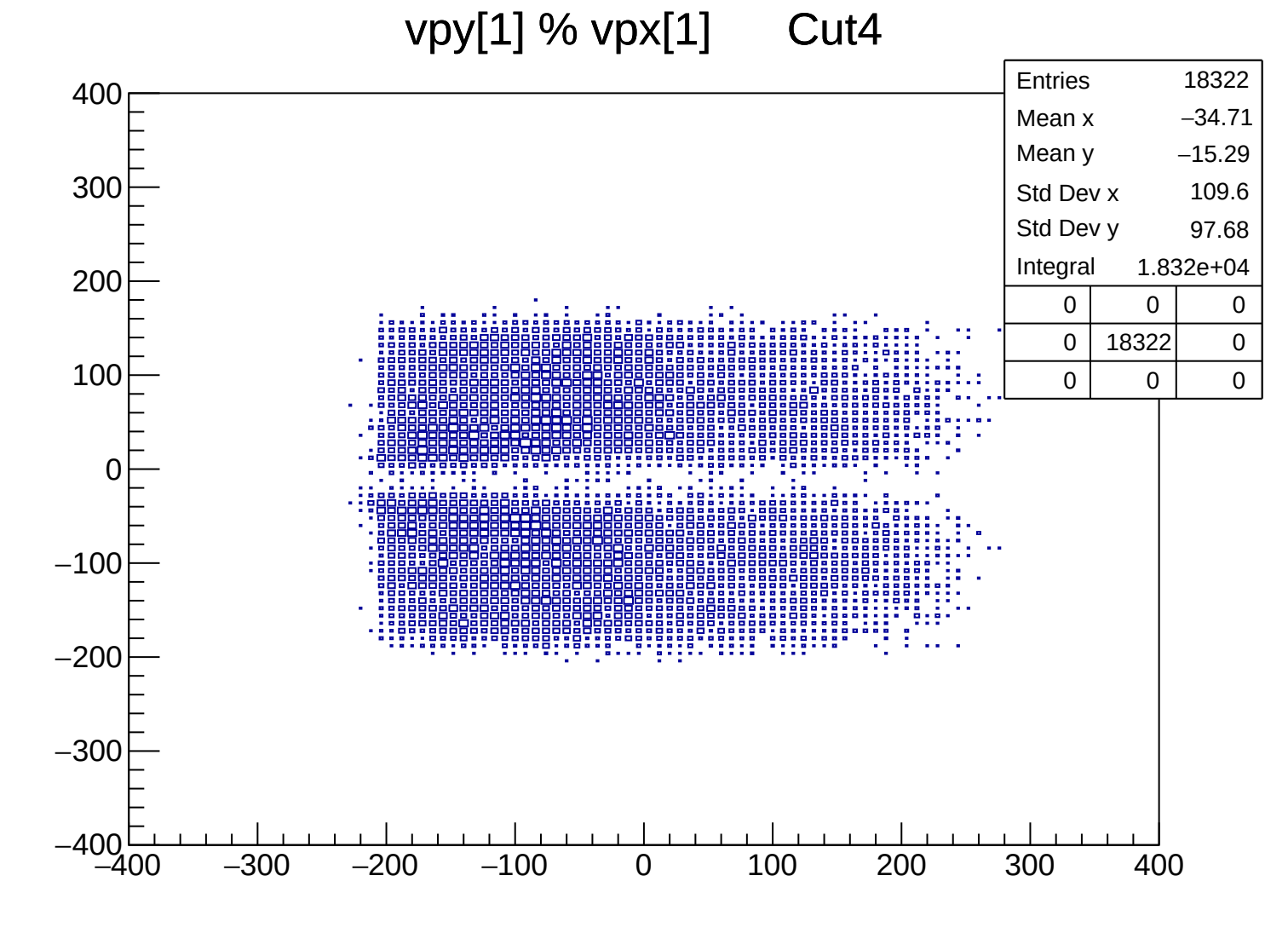
vpy[1] % vpx[1] Cut4
Entries 18322
Mean x –34.71
Mean y –15.29
Std Dev x 109.6
Std Dev y 97.68
Integral 1.832e+04
0 0 0
0 18322 0
0 0 0
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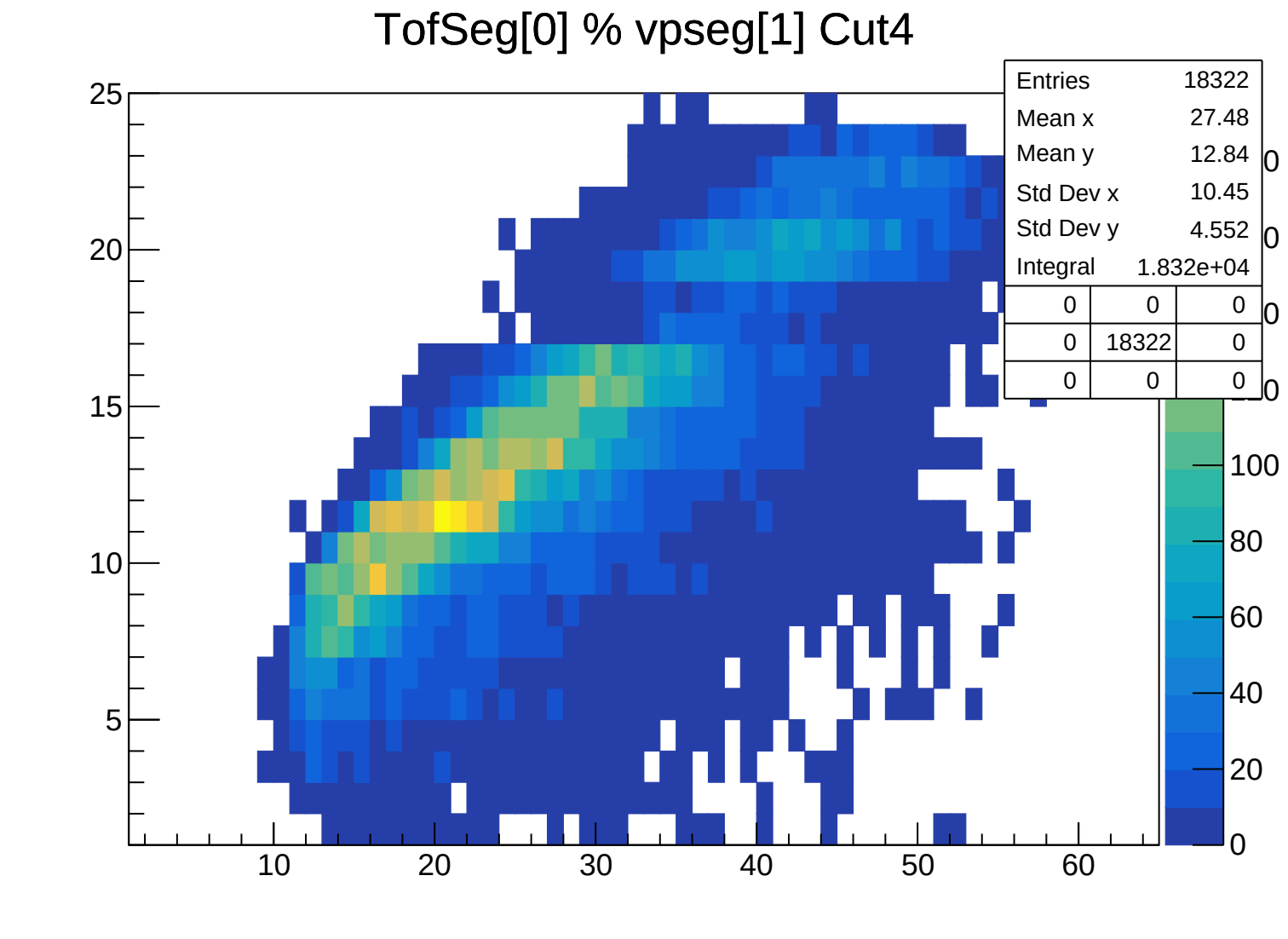
TofSeg[0] % vpseg[1] Cut4
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.45
Std Dev y 4.552
Integral 1.832e+04
0 0 0
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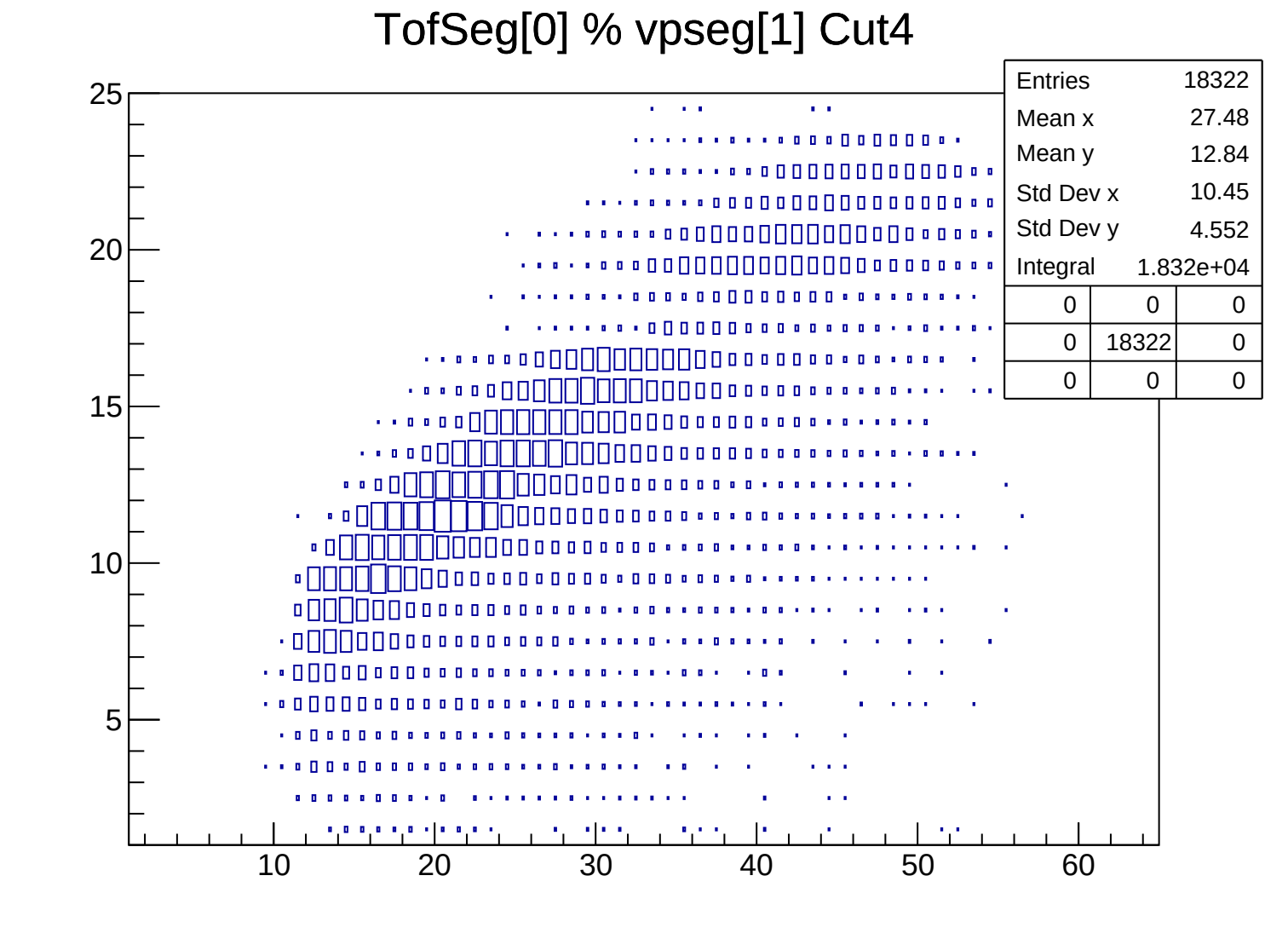
TofSeg[0] % vpseg[1] Cut4
Entries 18322
Mean x 27.48
Mean y 12.84
Std Dev x 10.45
Std Dev y 4.552
Integral 1.832e+04
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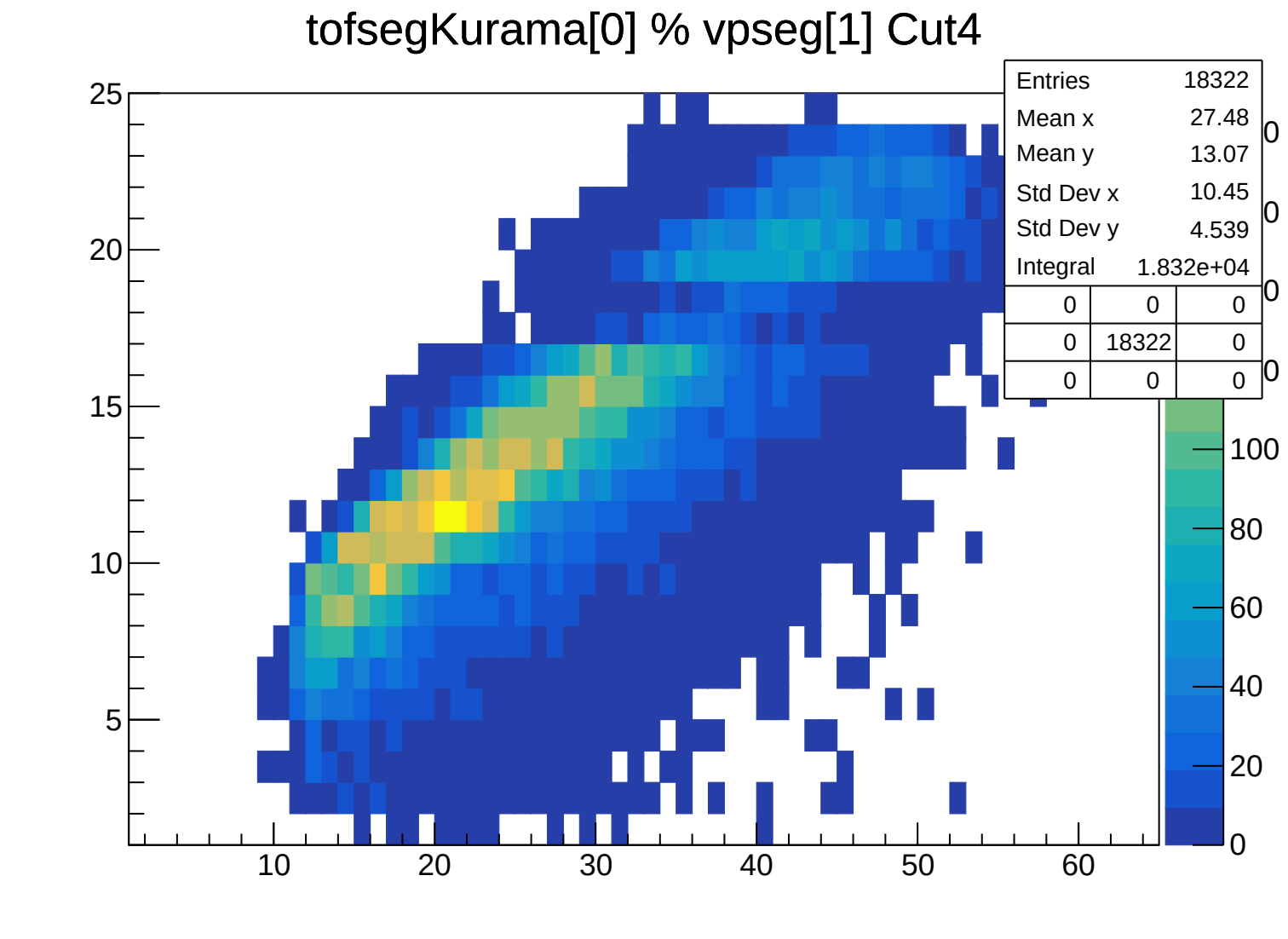
tofsegKurama[0] % vpseg[1] Cut4
Entries 18322
Mean x 27.48
Mean y 13.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
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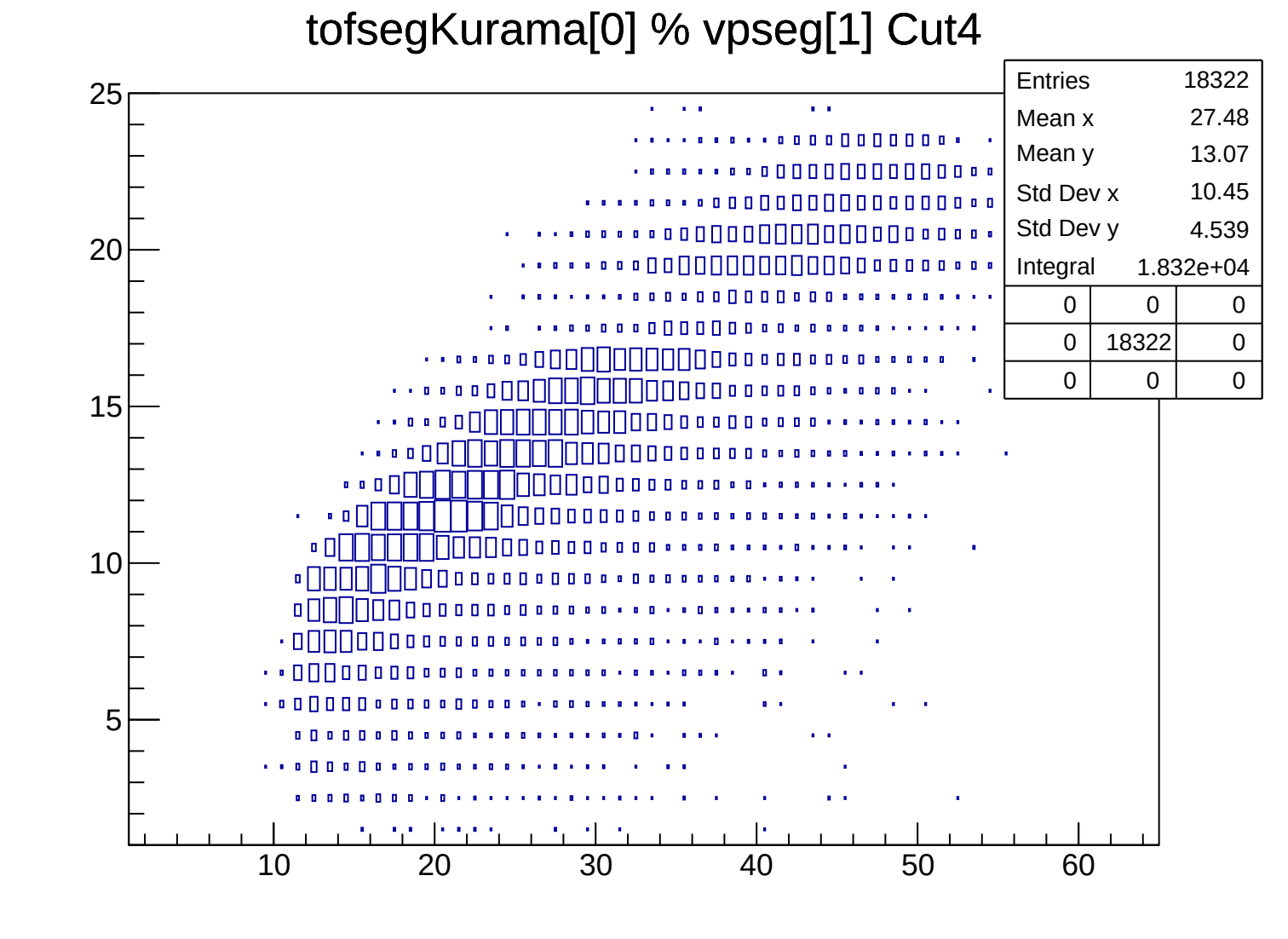
tofsegKurama[0] % vpseg[1] Cut4
Entries 18322
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Mean y 13.07
Std Dev x 10.45
Std Dev y 4.539
Integral 1.832e+04
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