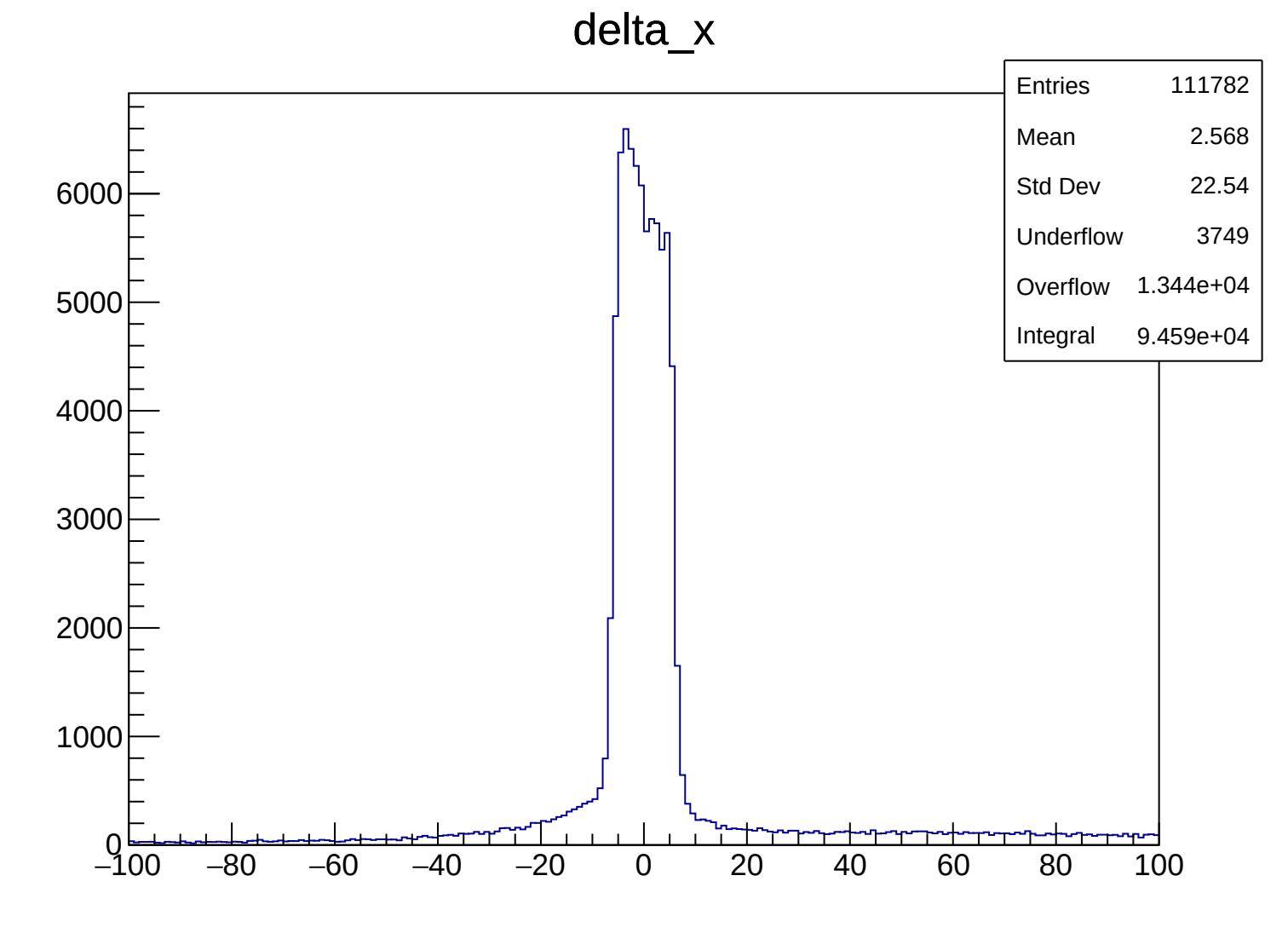
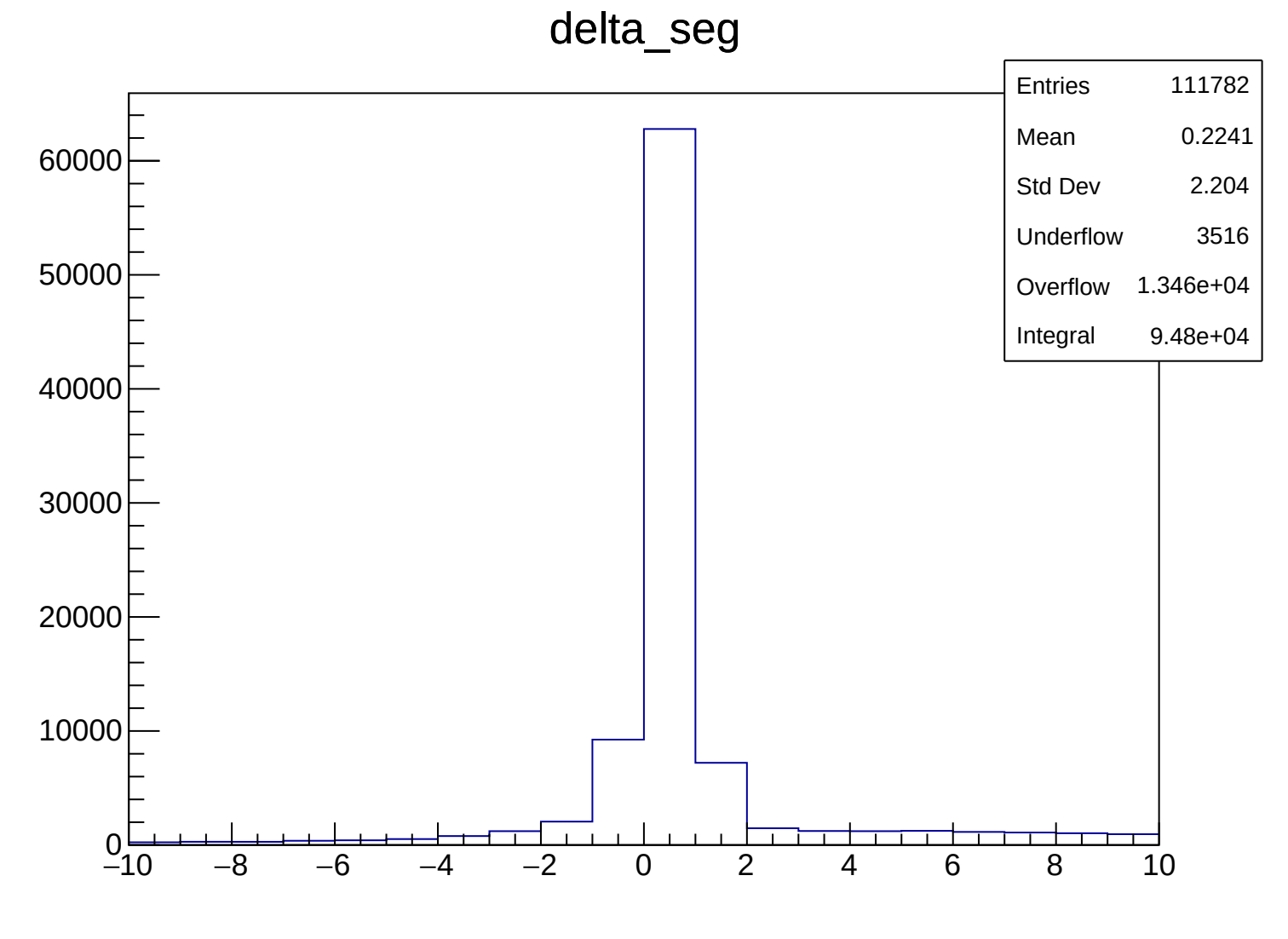
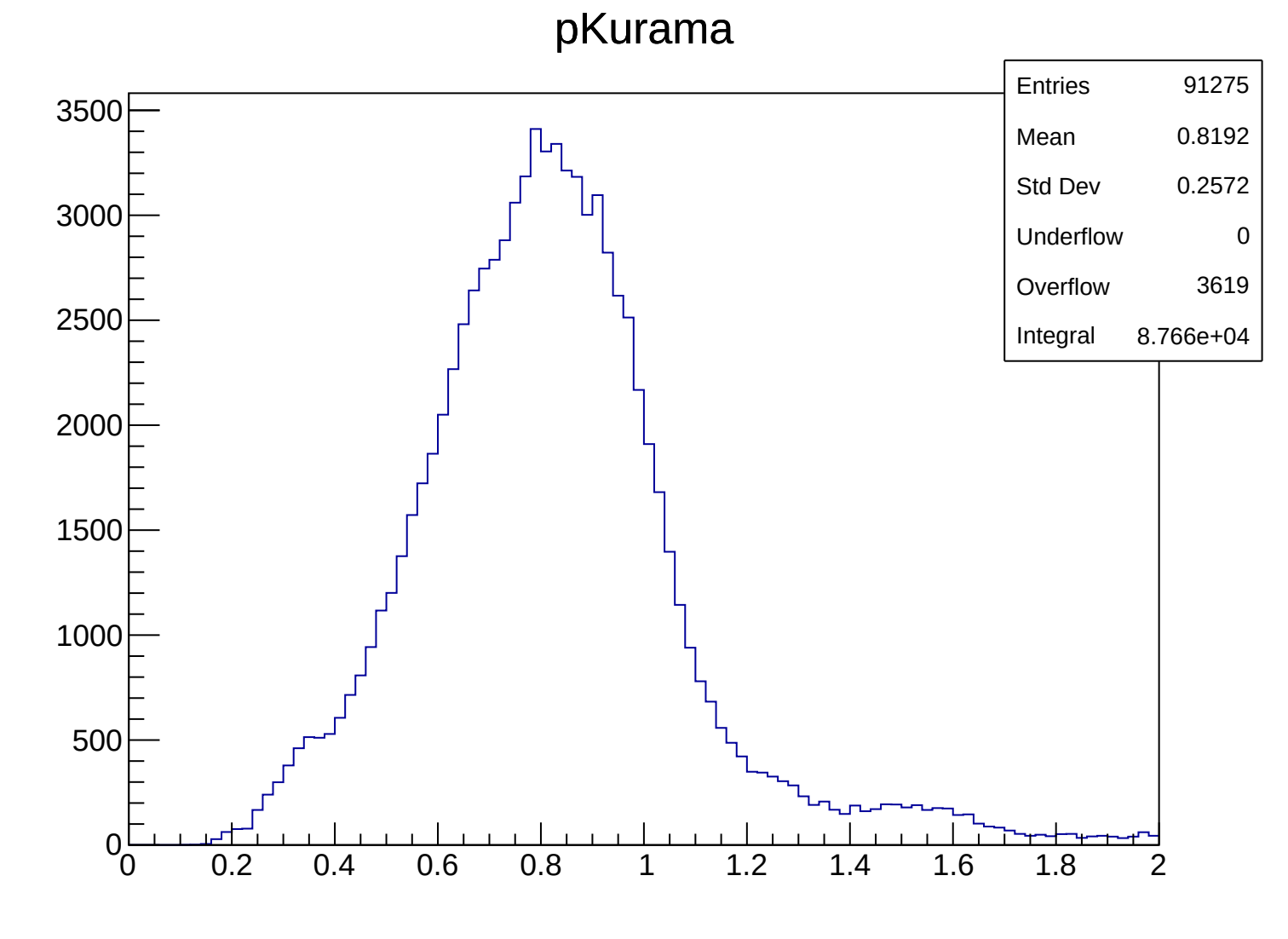
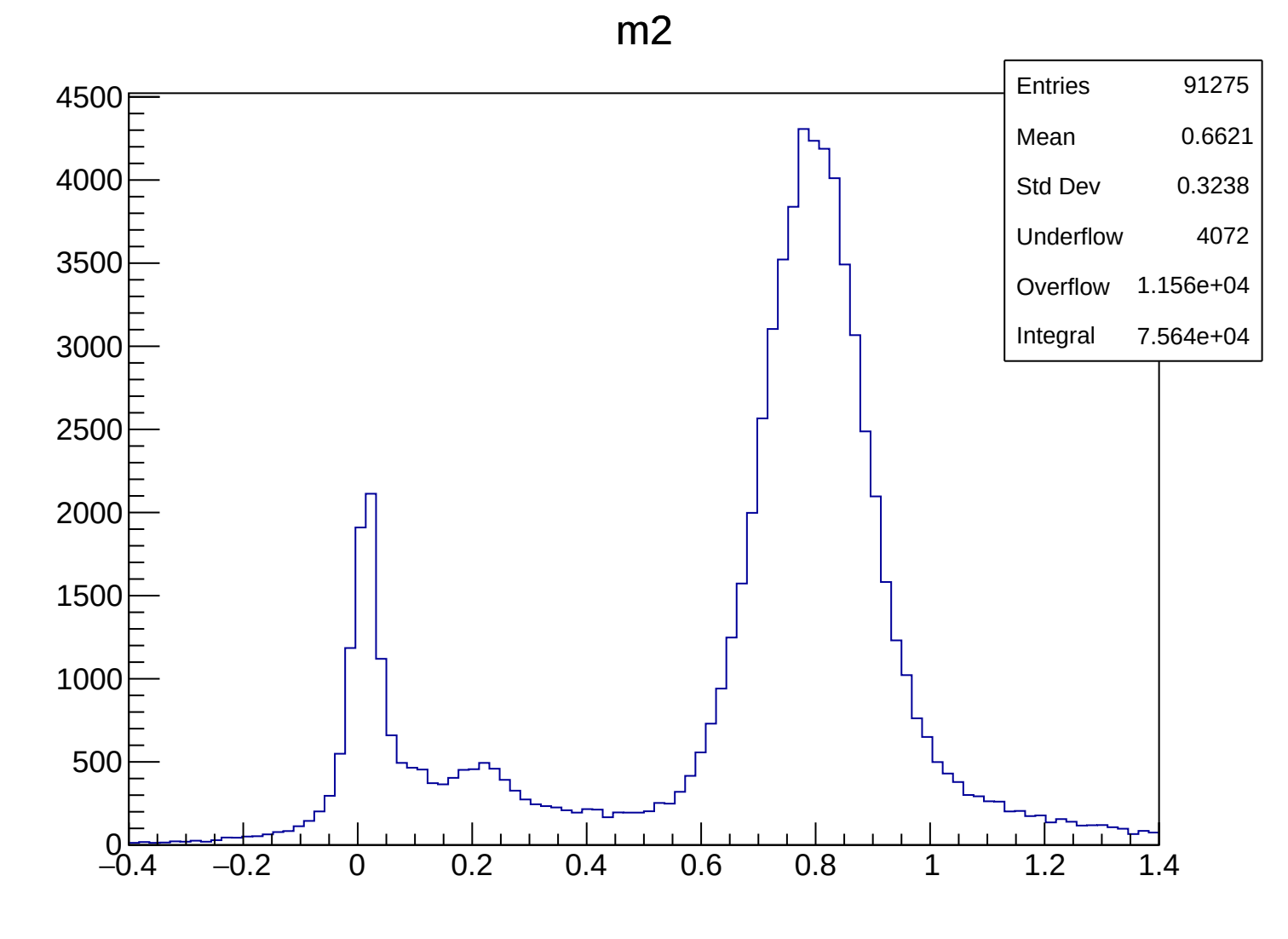
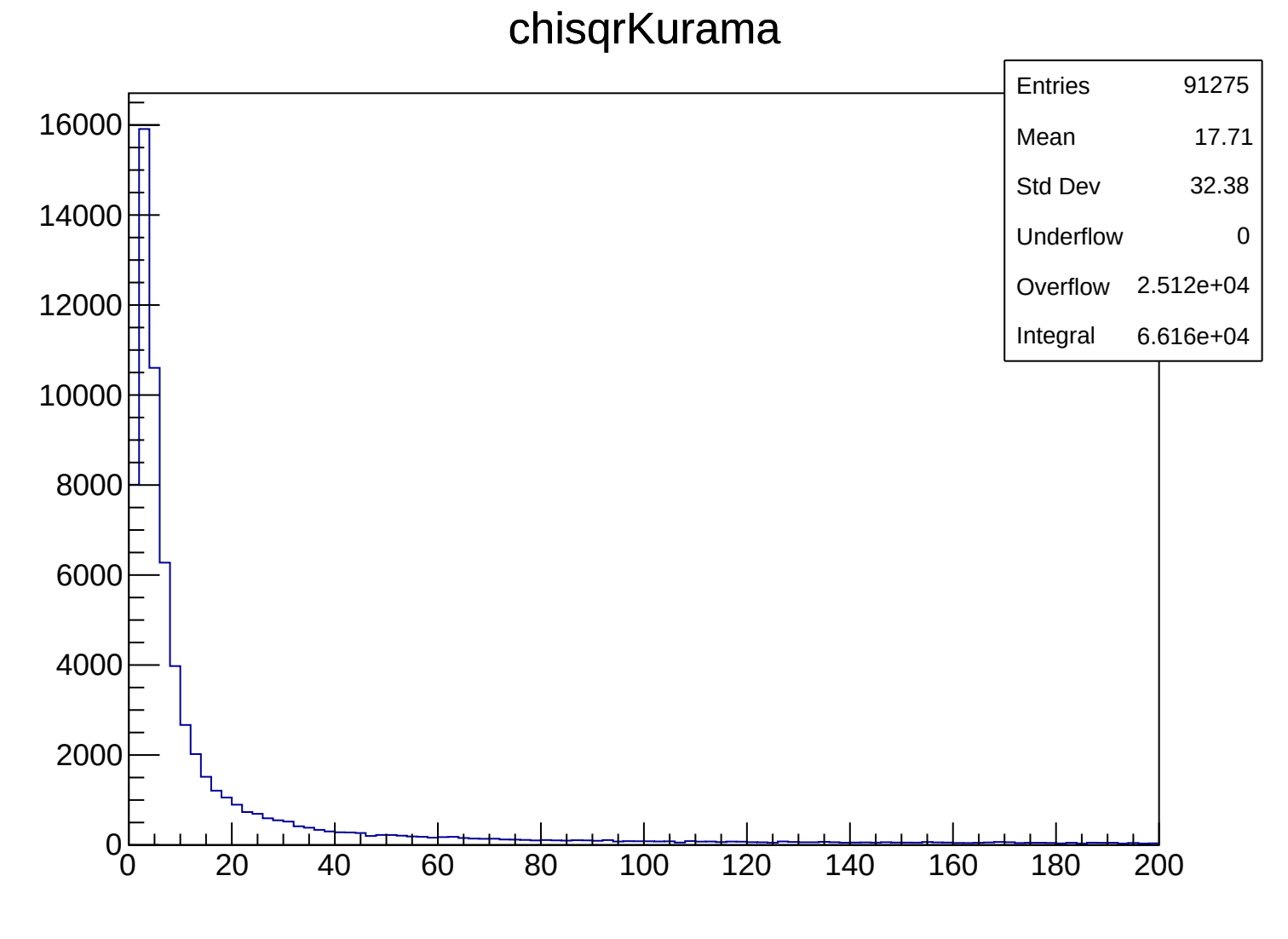
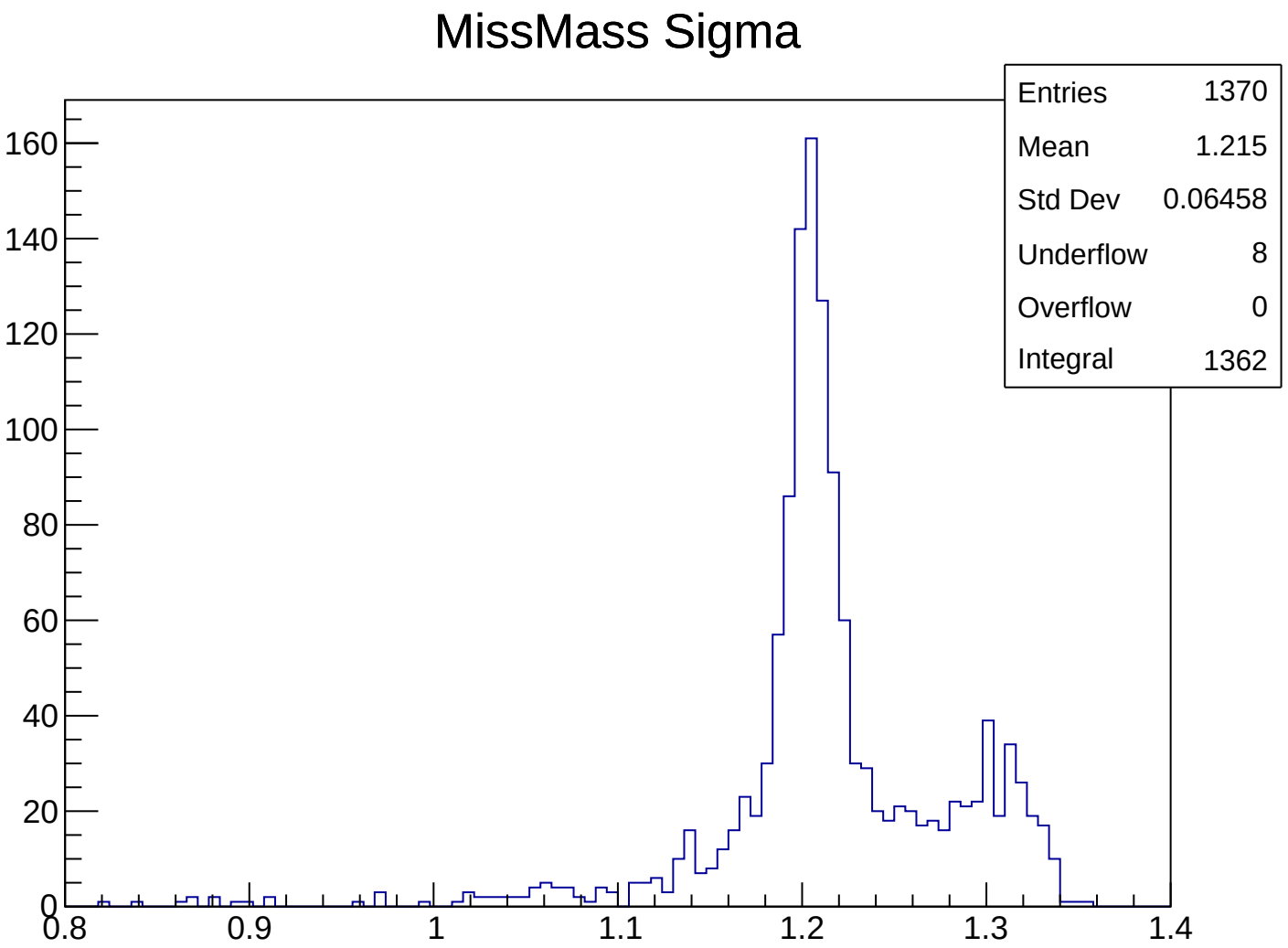

delta_x
Entries 111782
Mean 2.568
Std Dev 22.54
Underflow 3749
Overflow 1.344e+04
Integral 9.459e+04
6000
5000
4000
3000
2000
1000
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

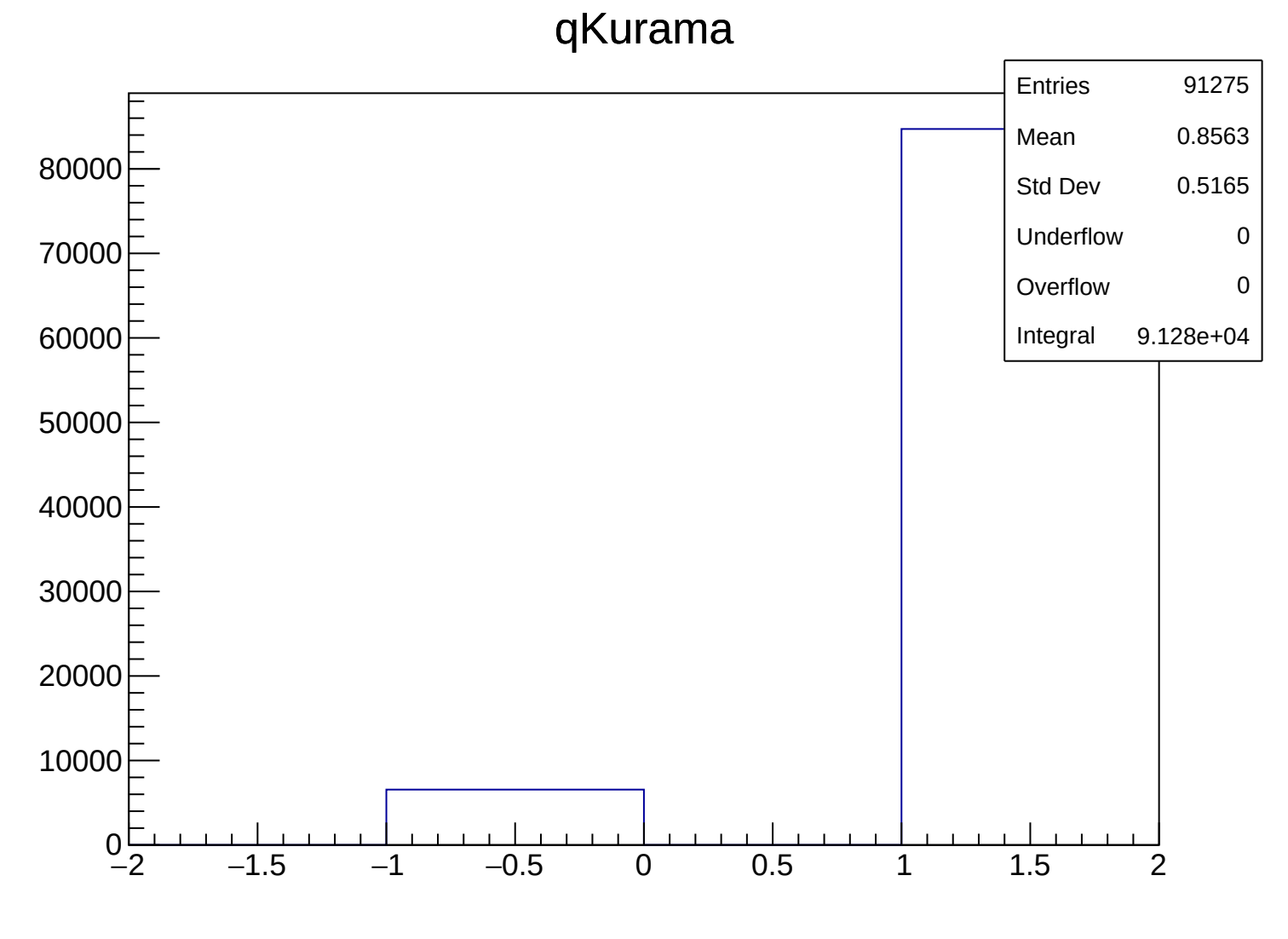

delta_seg
Entries 111782
Mean 0.2241
Std Dev 2.204
Underflow 3516
Overflow 1.346e+04
Integral 9.48e+04
60000
50000
40000
30000
20000
10000
0
−10
−8
−6
−4
−2
0
2
4
6
8
10

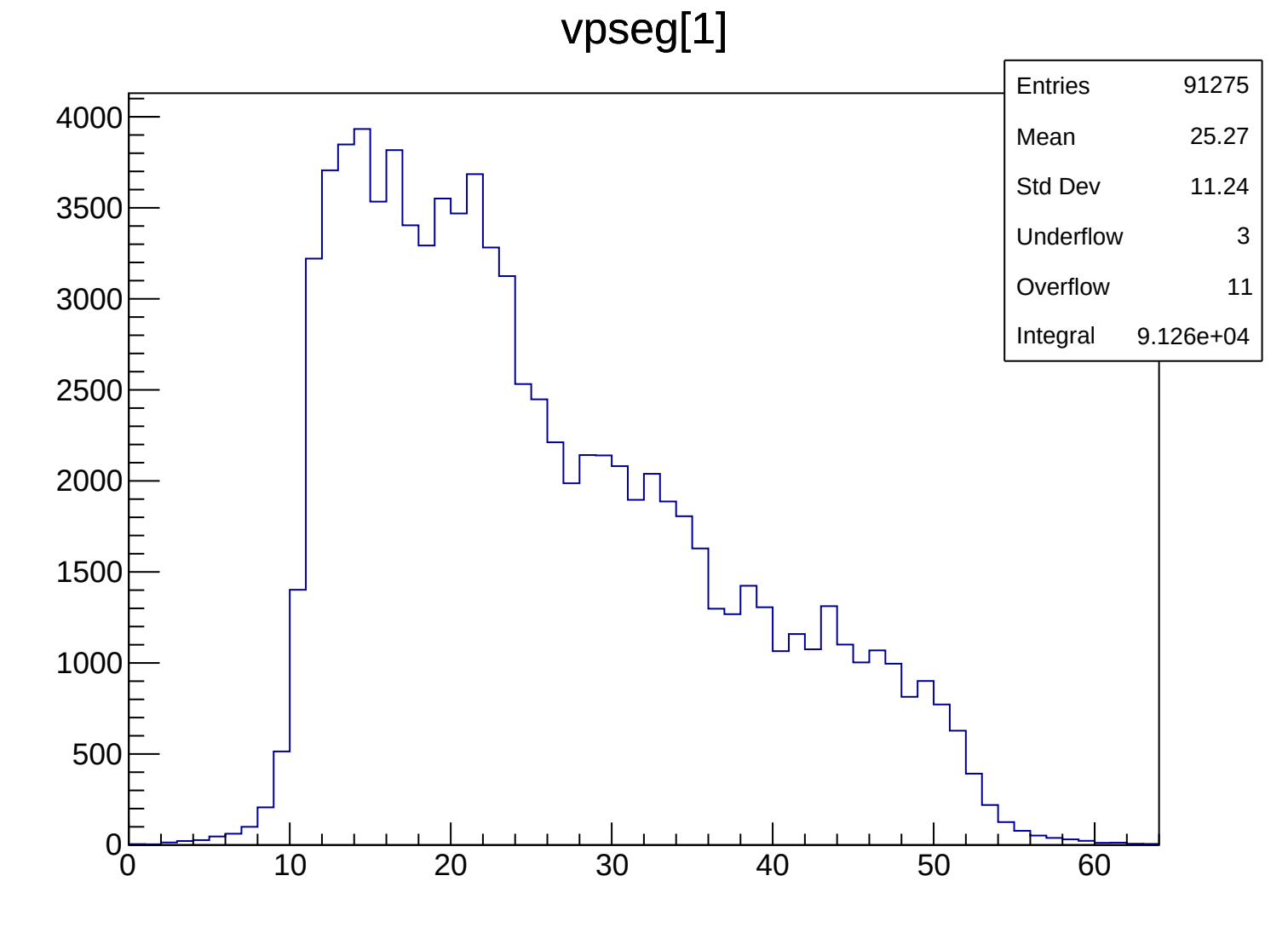

pKurama
Entries 91275
Mean 0.8192
Std Dev 0.2572
Underflow 0
Overflow 3619
Integral 8.766e+04
3500
3000
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

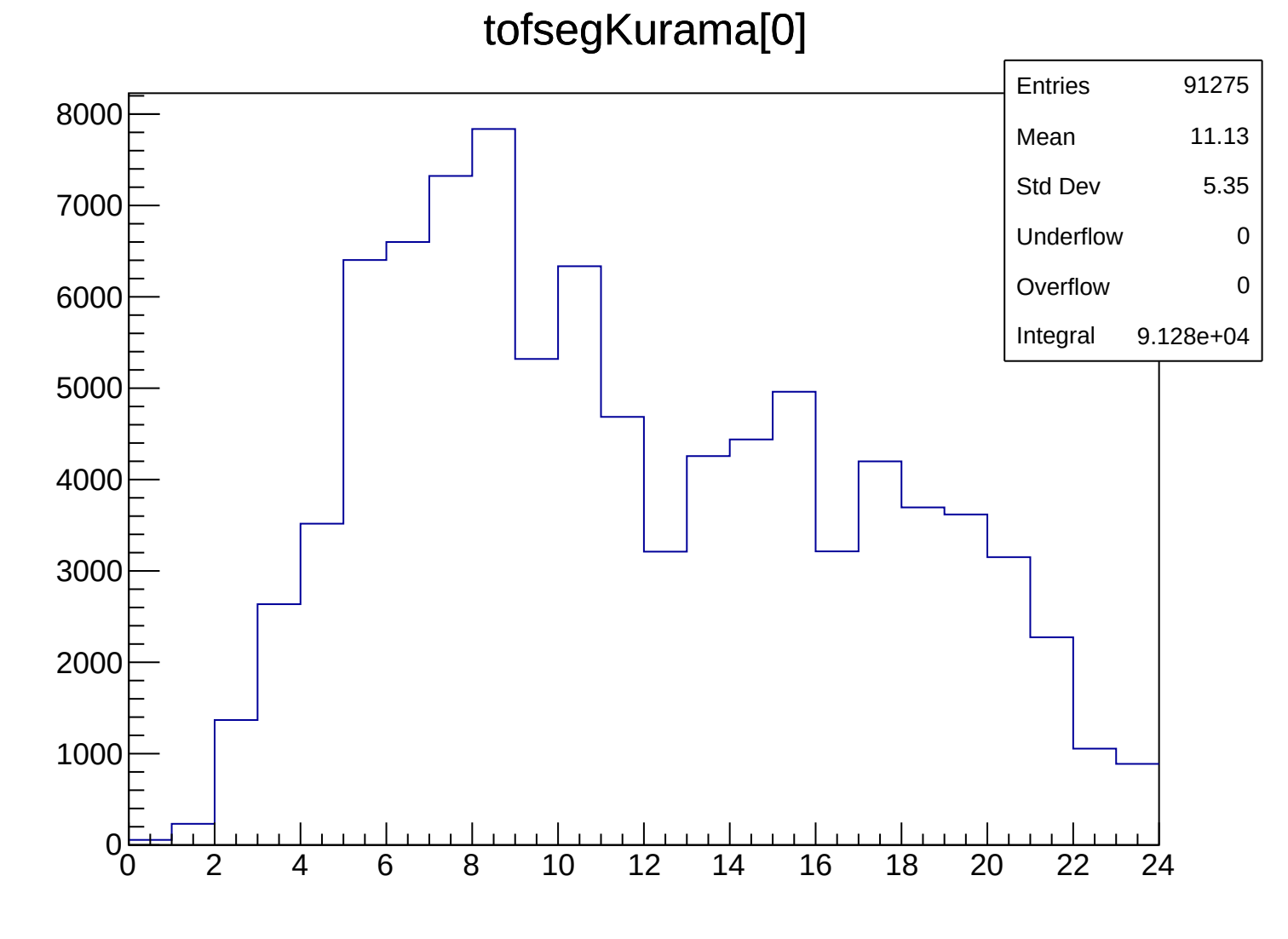

m2
Entries 91275
Mean 0.6621
Std Dev 0.3238
Underflow 4072
Overflow 1.156e+04
Integral 7.564e+04
4500
4000
3500
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


chisqrKurama
Entries 91275
Mean 17.71
Std Dev 32.38
Underflow 0
Overflow 2.512e+04
Integral 6.616e+04
16000
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200


MissMass Sigma
Entries 1370
Mean 1.215
Std Dev 0.06458
Underflow 8
Overflow 0
Integral 1362
160
140
120
100
80
60
40
20
0
0.8
0.9
1
1.1
1.2
1.3
1.4


qKurama
Entries 91275
Mean 0.8563
Std Dev 0.5165
Underflow 0
Overflow 0
Integral 9.128e+04
80000
70000
60000
50000
40000
30000
20000
10000
0
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2


vpseg[1]
Entries 91275
Mean 25.27
Std Dev 11.24
Underflow 3
Overflow 11
Integral 9.126e+04
4000
3500
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60


tofsegKurama[0]
Entries 91275
Mean 11.13
Std Dev 5.35
Underflow 0
Overflow 0
Integral 9.128e+04
8000
7000
6000
5000
4000
3000
2000
1000
0
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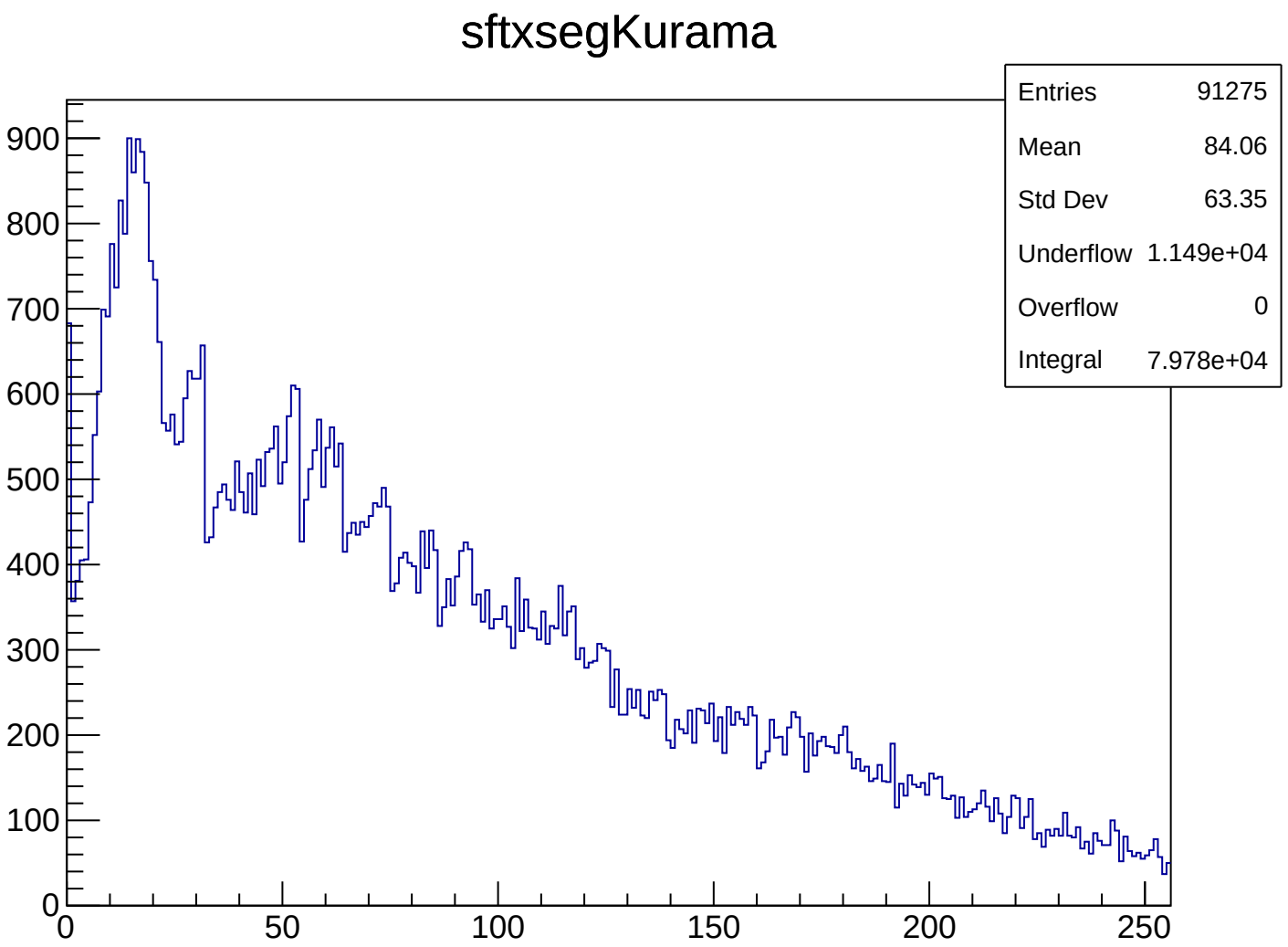
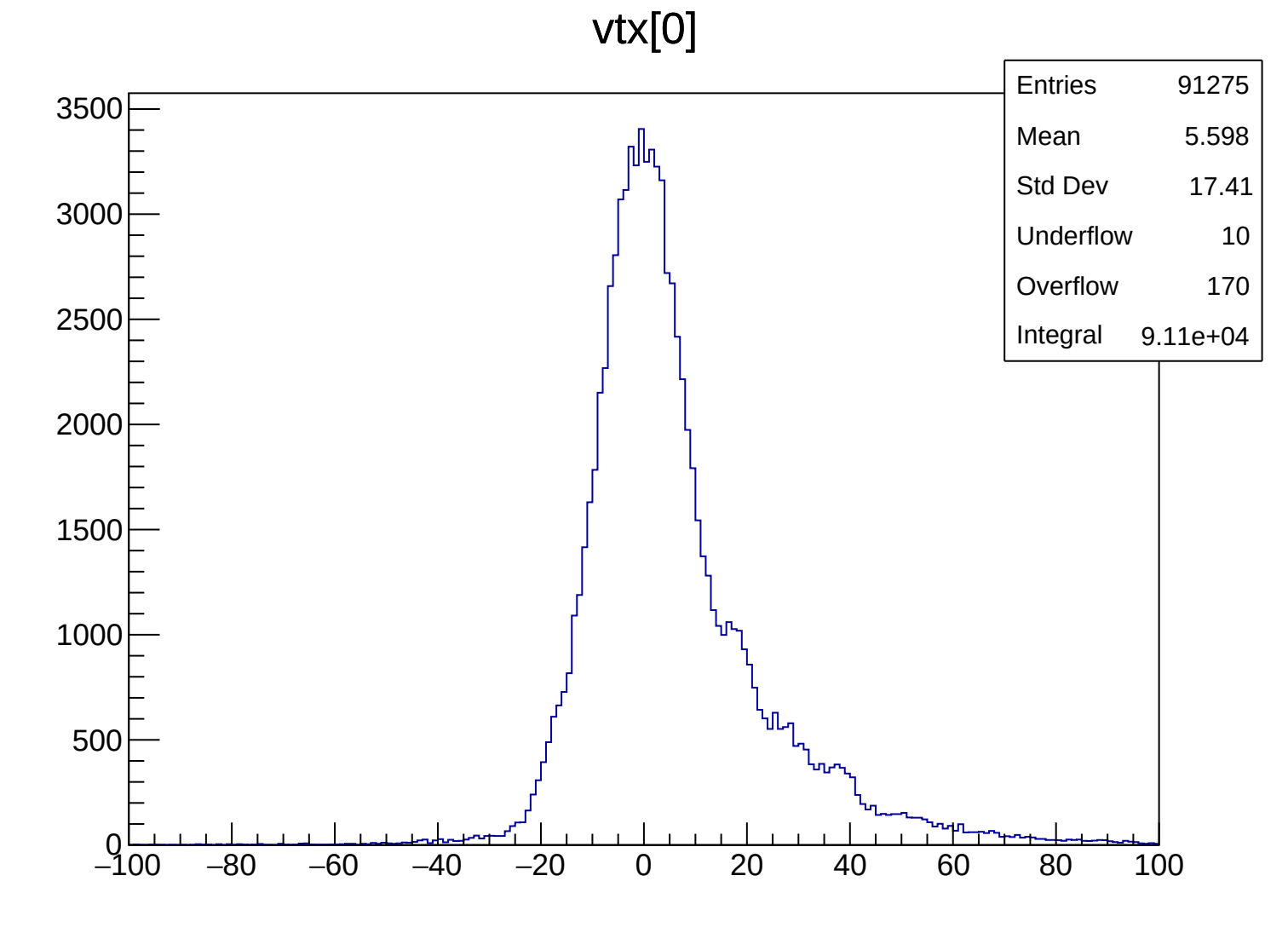
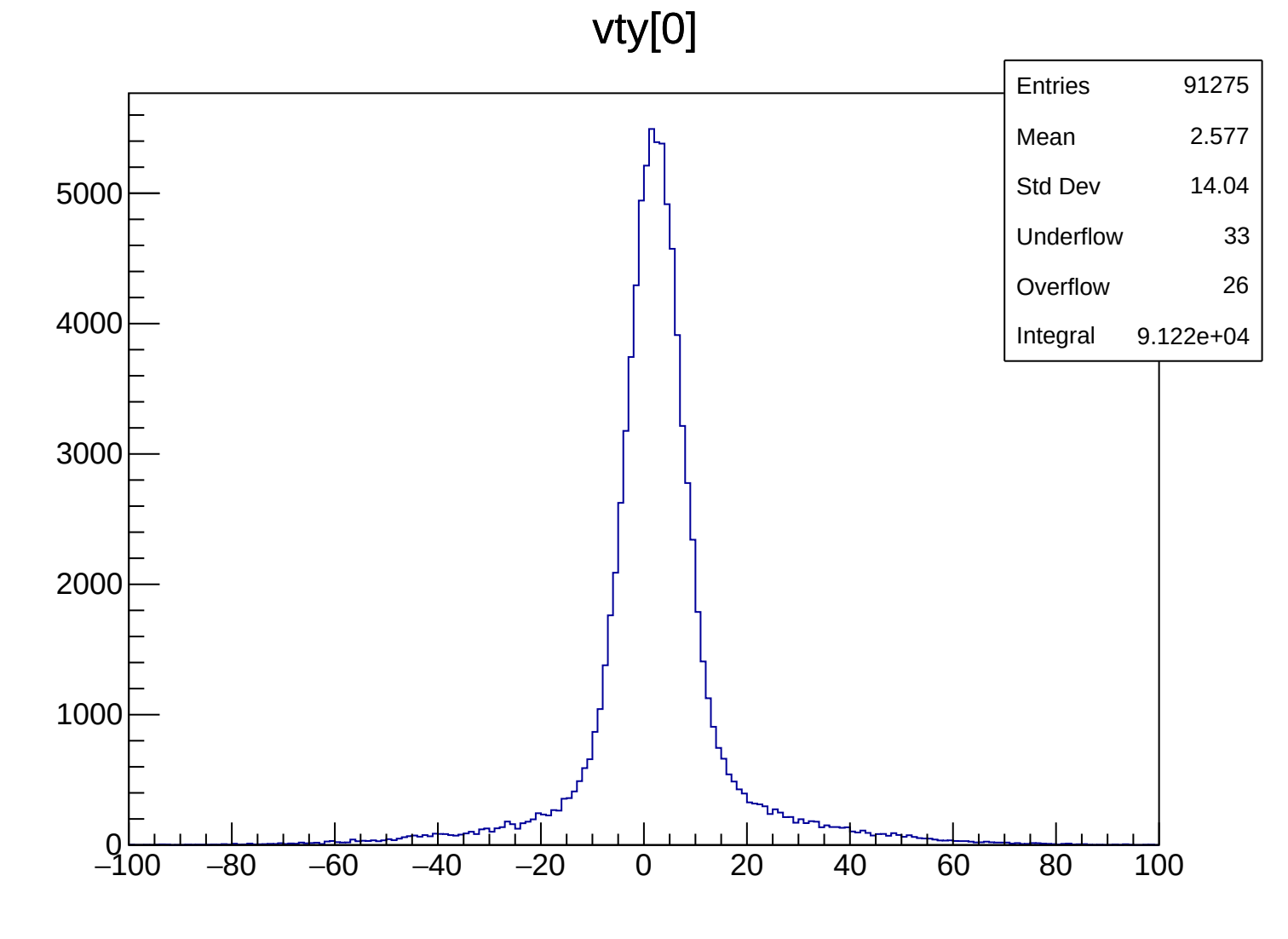
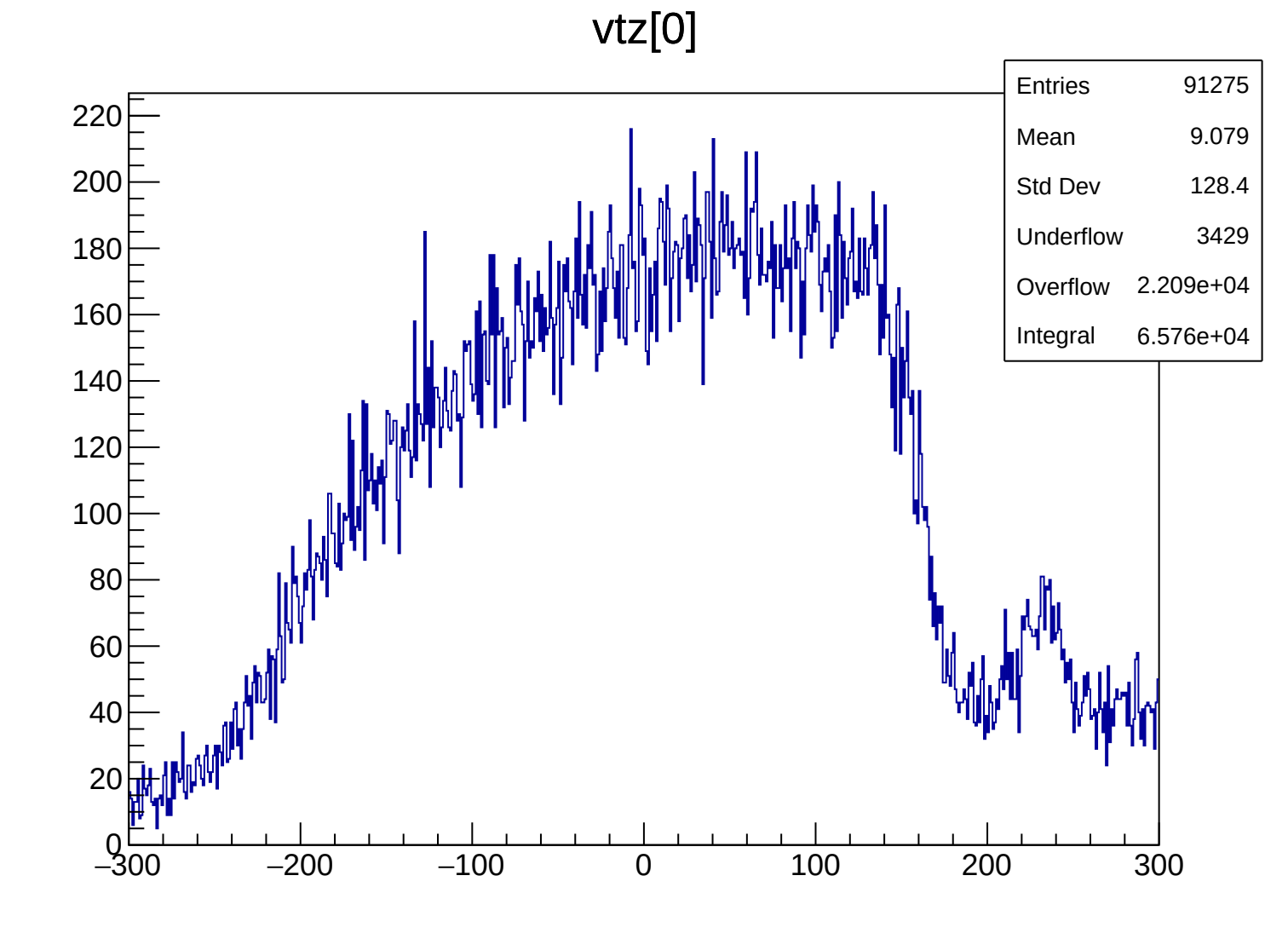
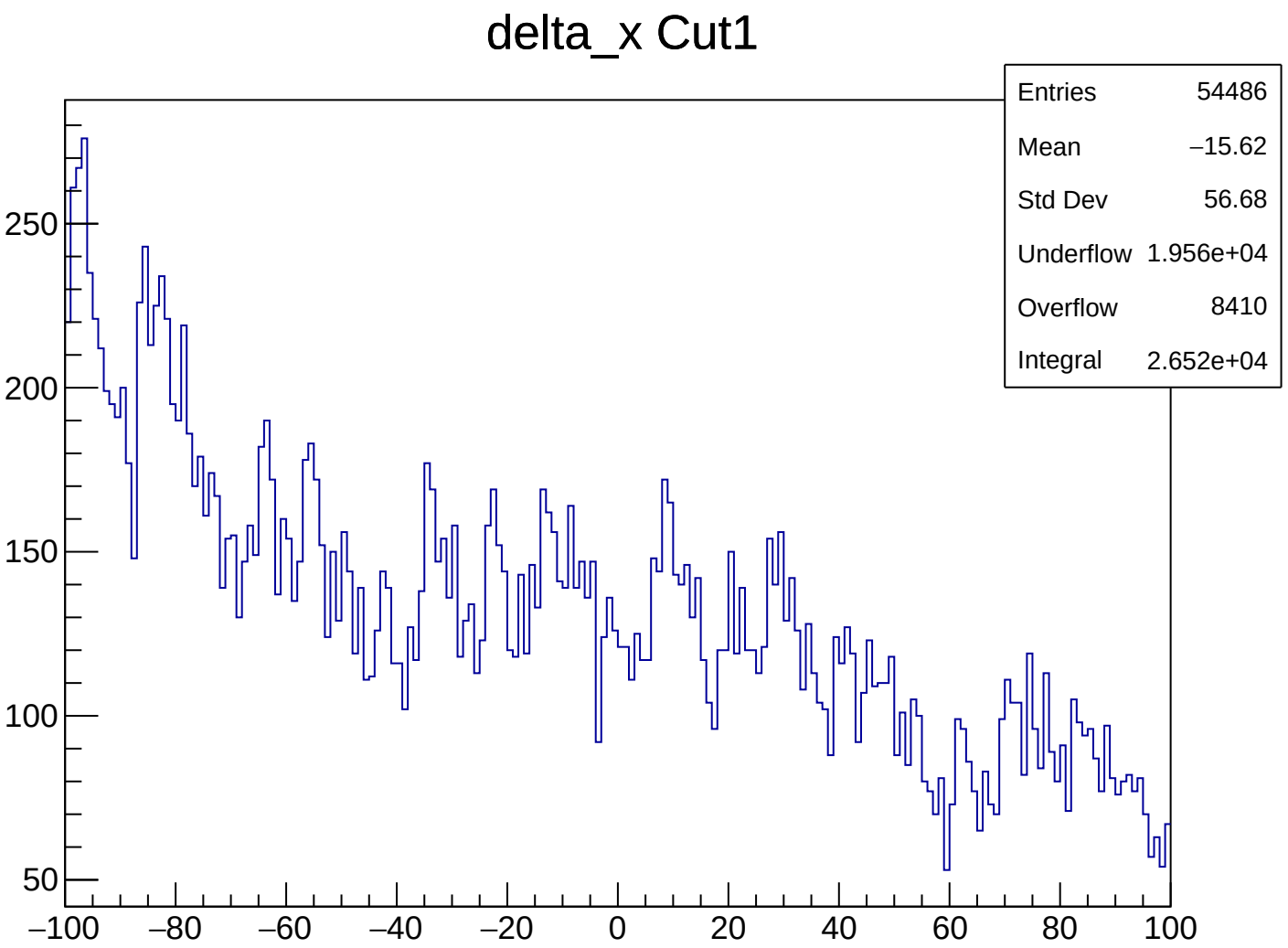
2
4
6
8
10
12
14
16
18
20
22
24

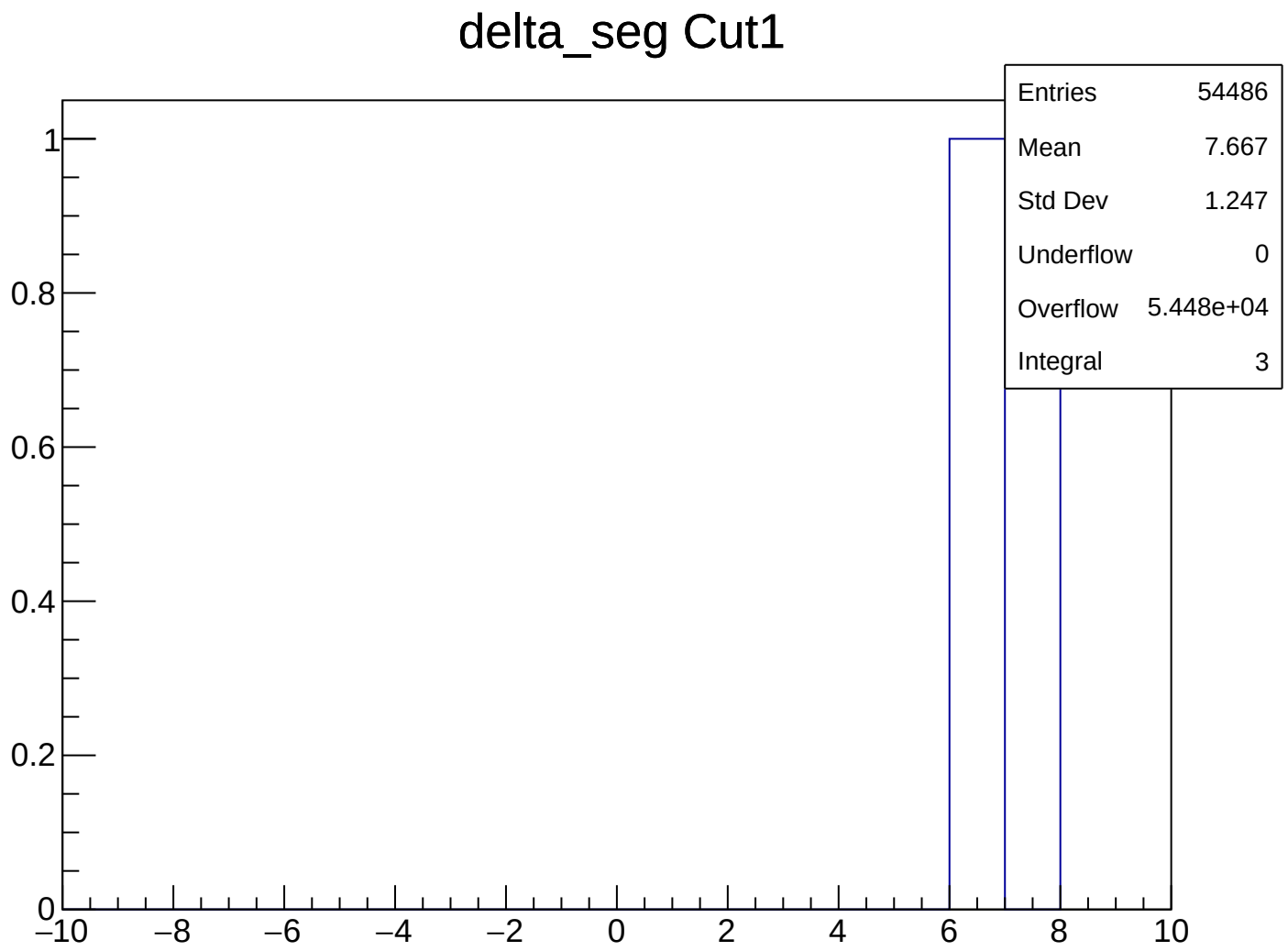

sftxsegKurama
Entries 91275
Mean 84.06
Std Dev 63.35
Underflow 1.149e+04
Overflow 0
Integral 7.978e+04
900
800
700
600
500
400
300
200
100
0
0
50
100
150
200
250

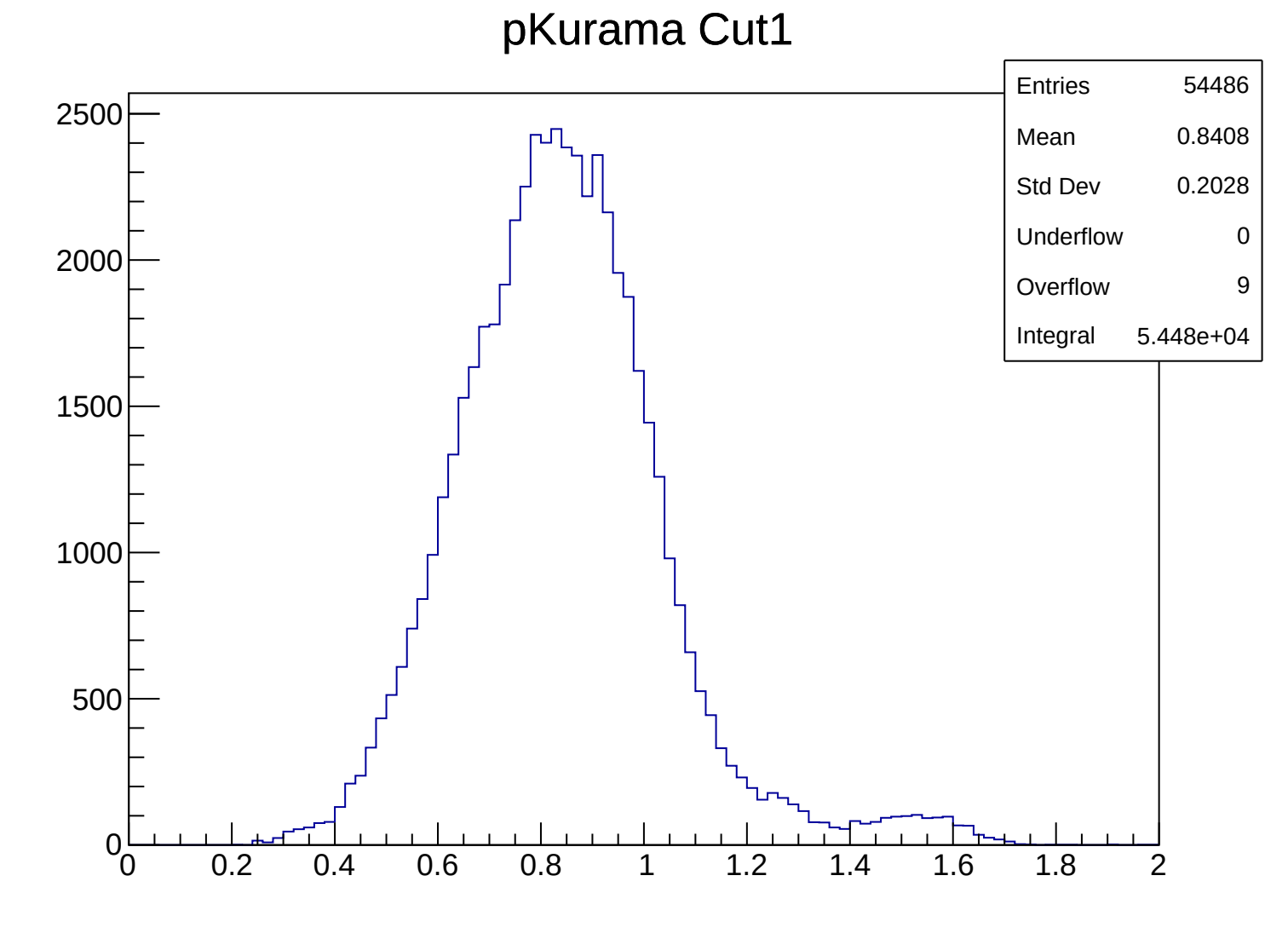

vtx[0]
Entries 91275
Mean 5.598
Std Dev 17.41
Underflow 10
Overflow 170
Integral 9.11e+04
3500
3000
2500
2000
1500
1000
500
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

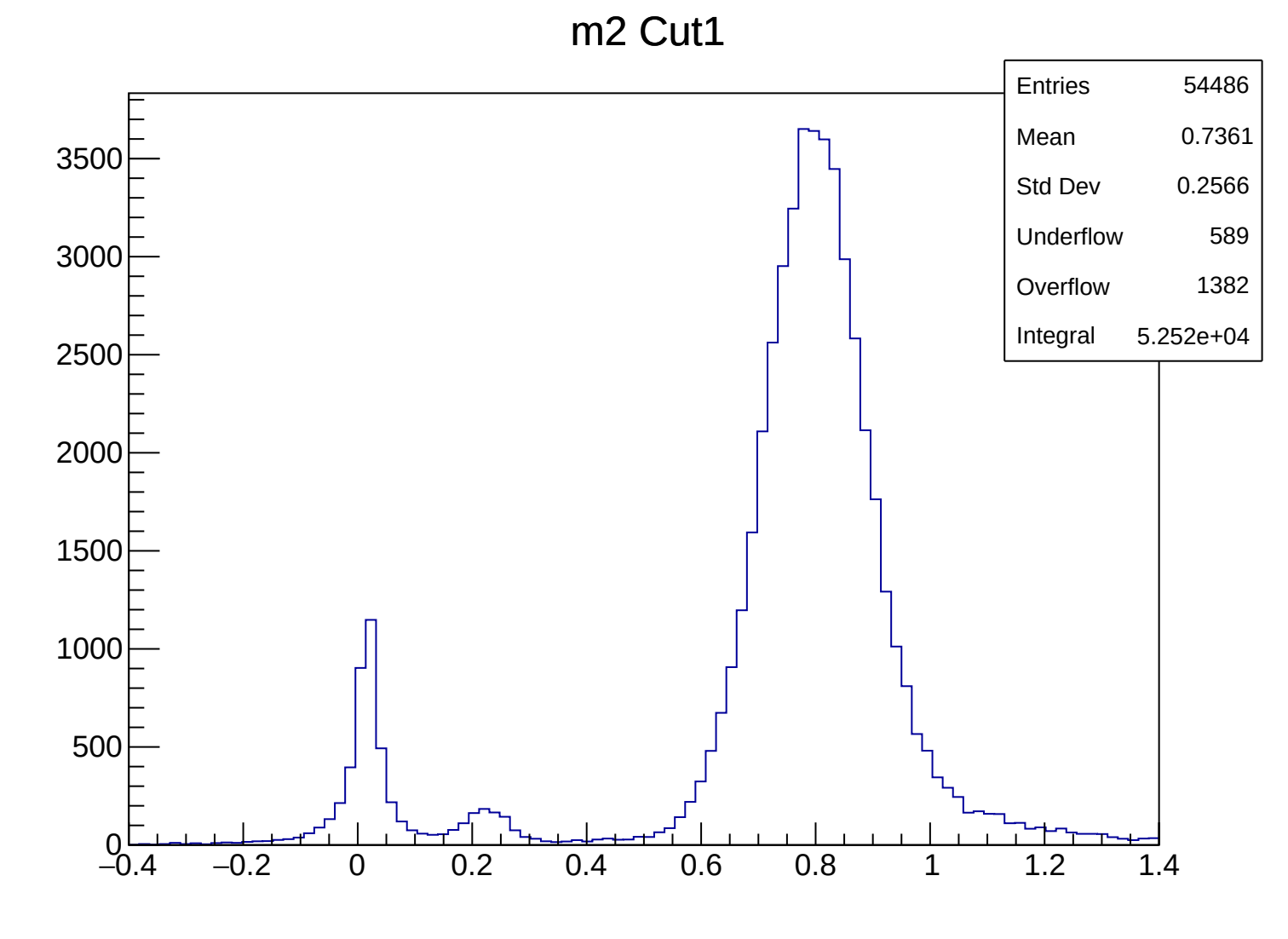

vty[0]
Entries 91275
Mean 2.577
Std Dev 14.04
Underflow 33
Overflow 26
Integral 9.122e+04
5000
4000
3000
2000
1000
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

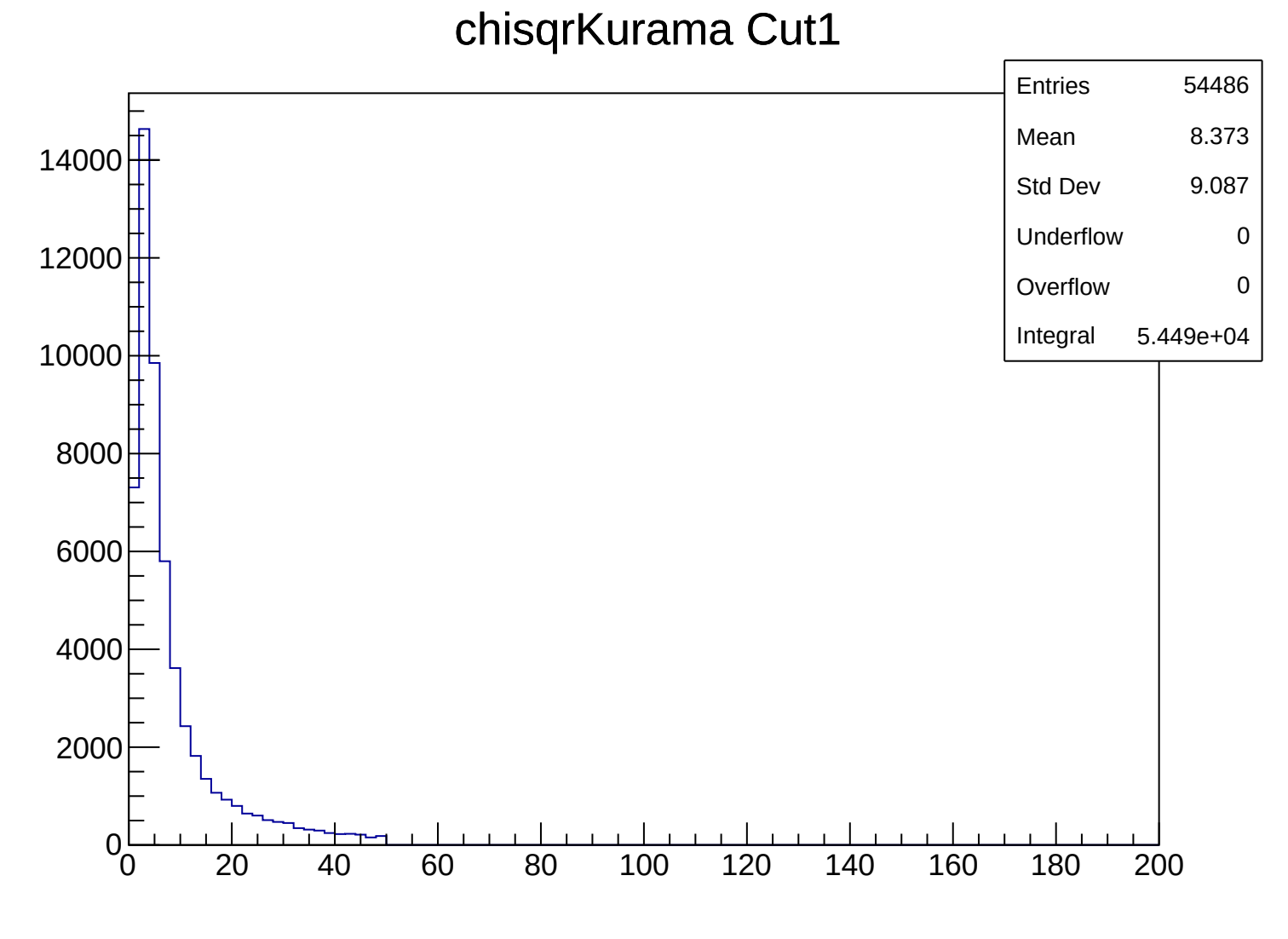

vtz[0]
Entries 91275
Mean 9.079
Std Dev 128.4
Underflow 3429
Overflow 2.209e+04
Integral 6.576e+04
220
200
180
160
140
120
100
80
60
40
20
0
–300
–200
–100
0
100
200
300

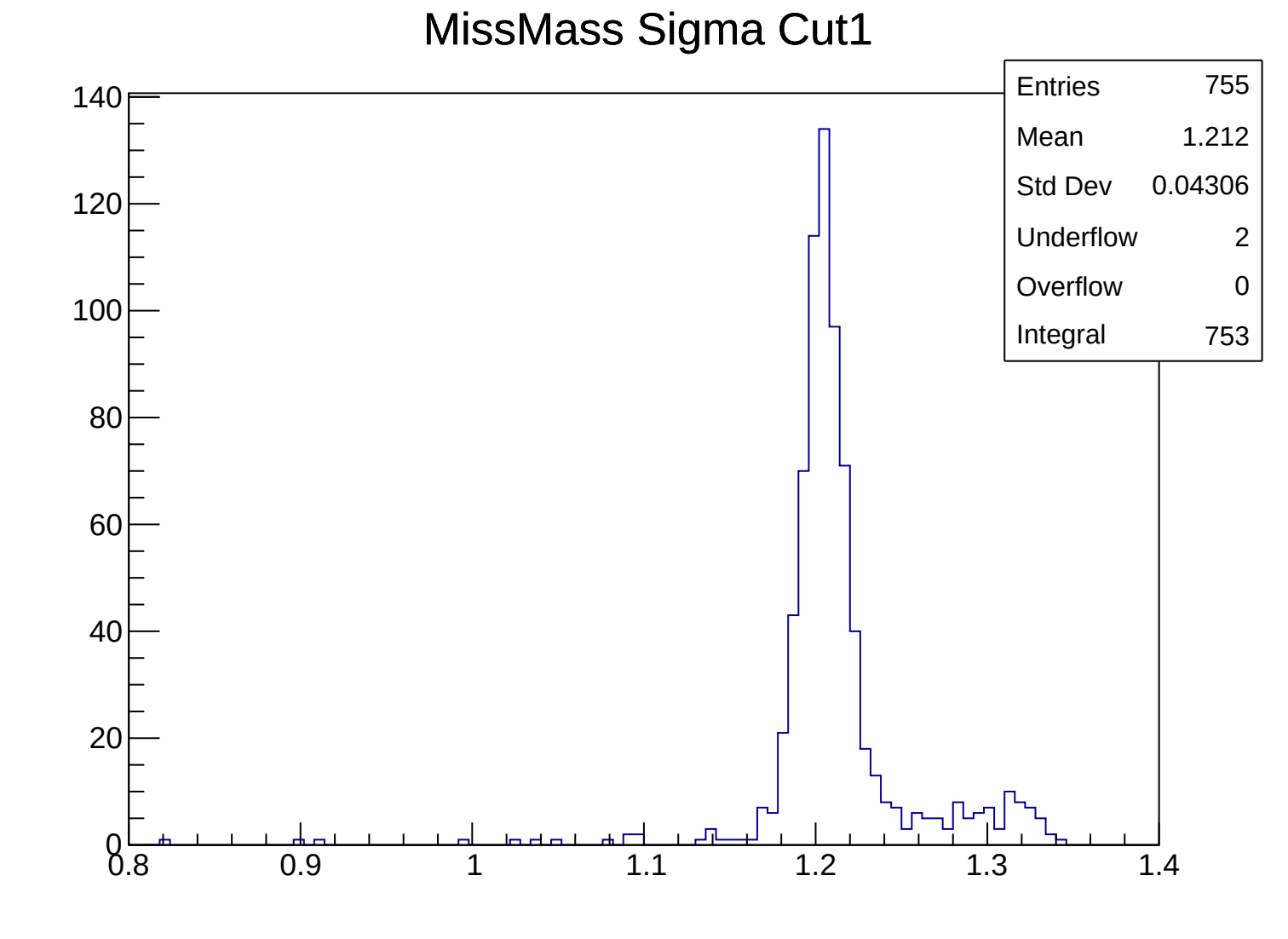

delta_x Cut1
Entries 54486
Mean –15.62
Std Dev 56.68
Underflow 1.956e+04
Overflow 8410
Integral 2.652e+04
250
200
150
100
50
–100
–80
–60
–40
–20
0
20
40
60
80
100

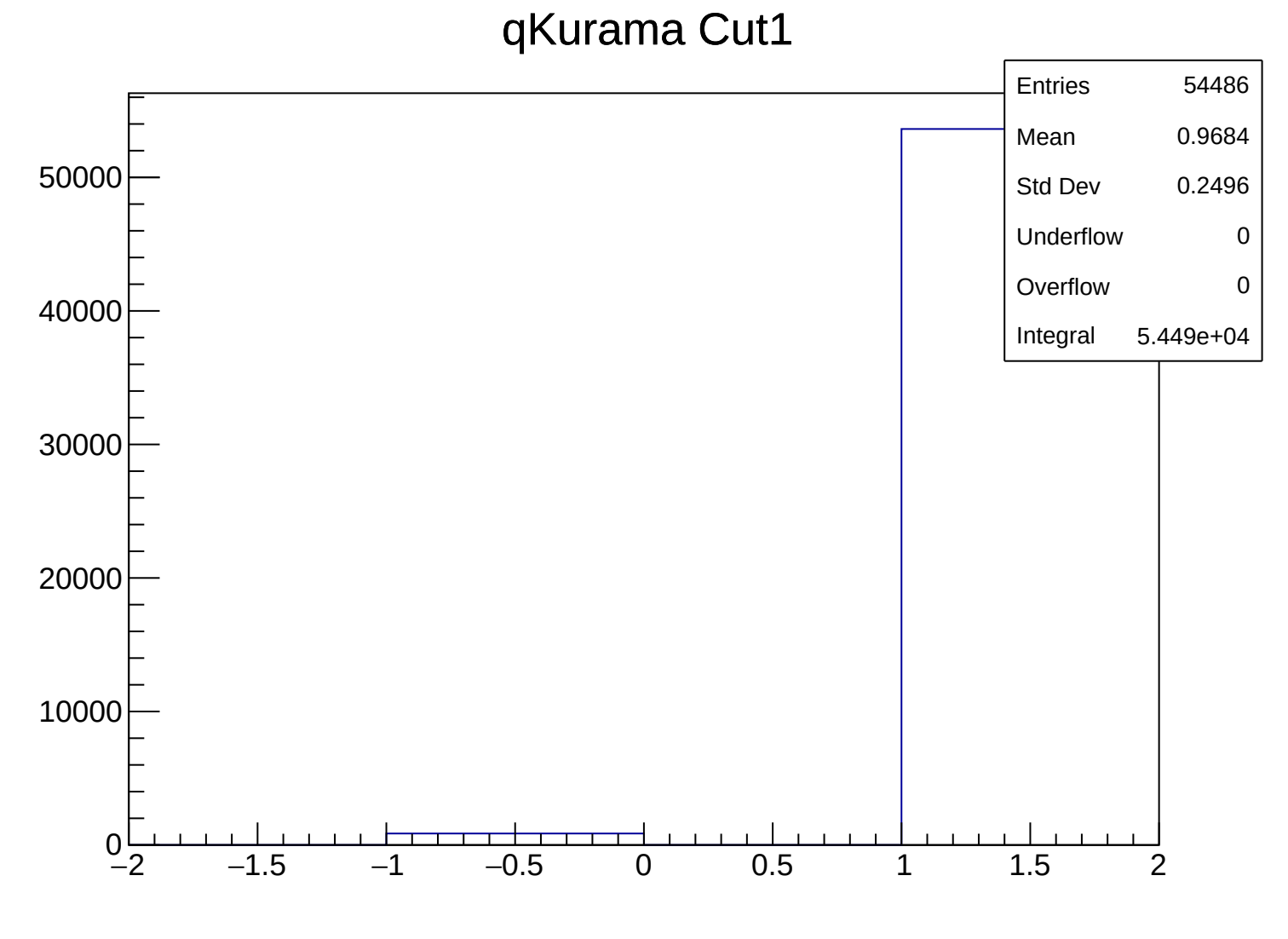

delta_seg Cut1
Entries 54486
Mean 7.667
Std Dev 1.247
Underflow 0
Overflow 5.448e+04
Integral 3
1
0.8
0.6
0.4
0.2
0
−10
−8
−6
−4
−2
0
2
4
6
8
10

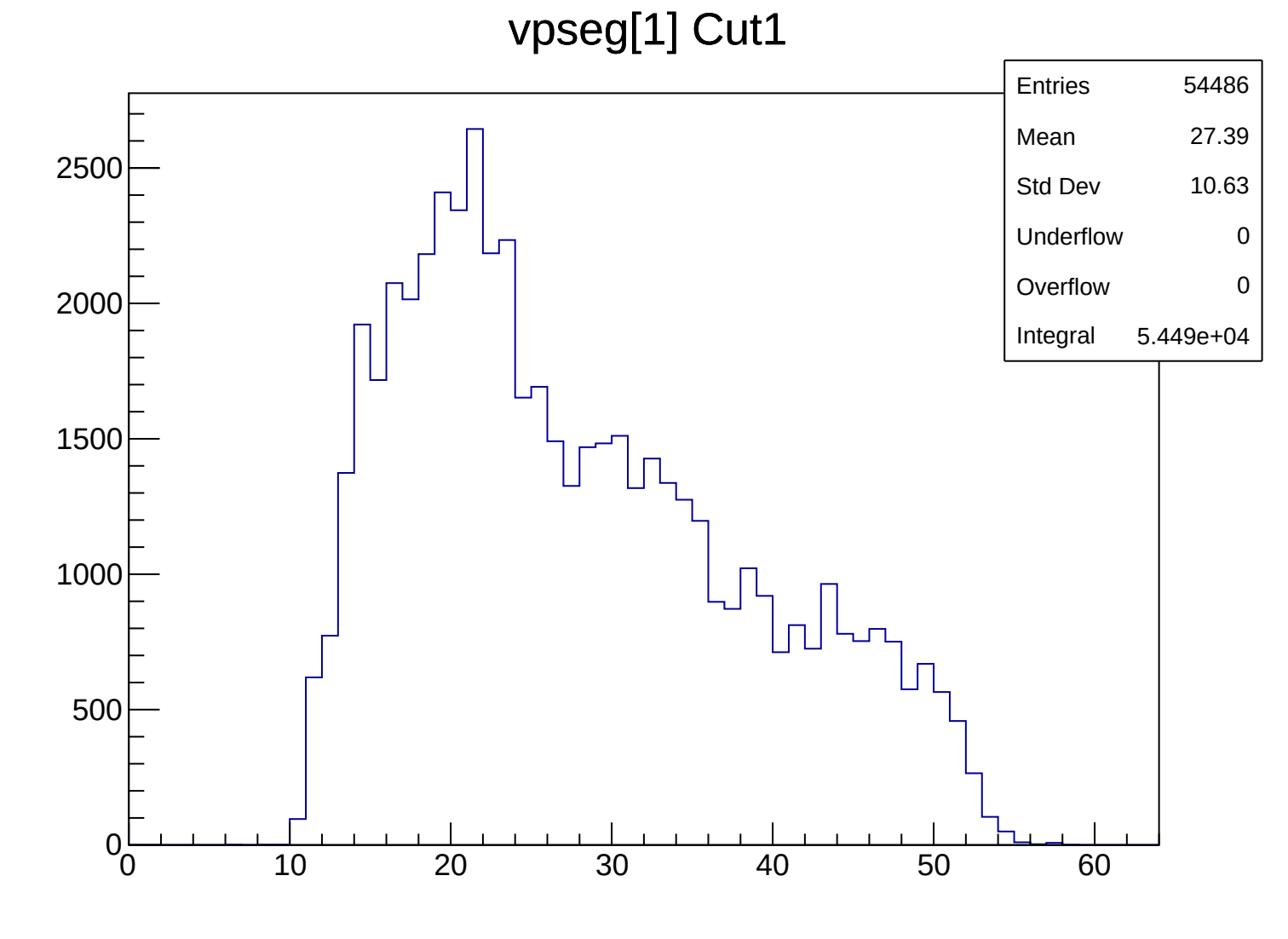

pKurama Cut1
Entries 54486
Mean 0.8408
Std Dev 0.2028
Underflow 0
Overflow 9
Integral 5.448e+04
2500
2000
1500
1000
500
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

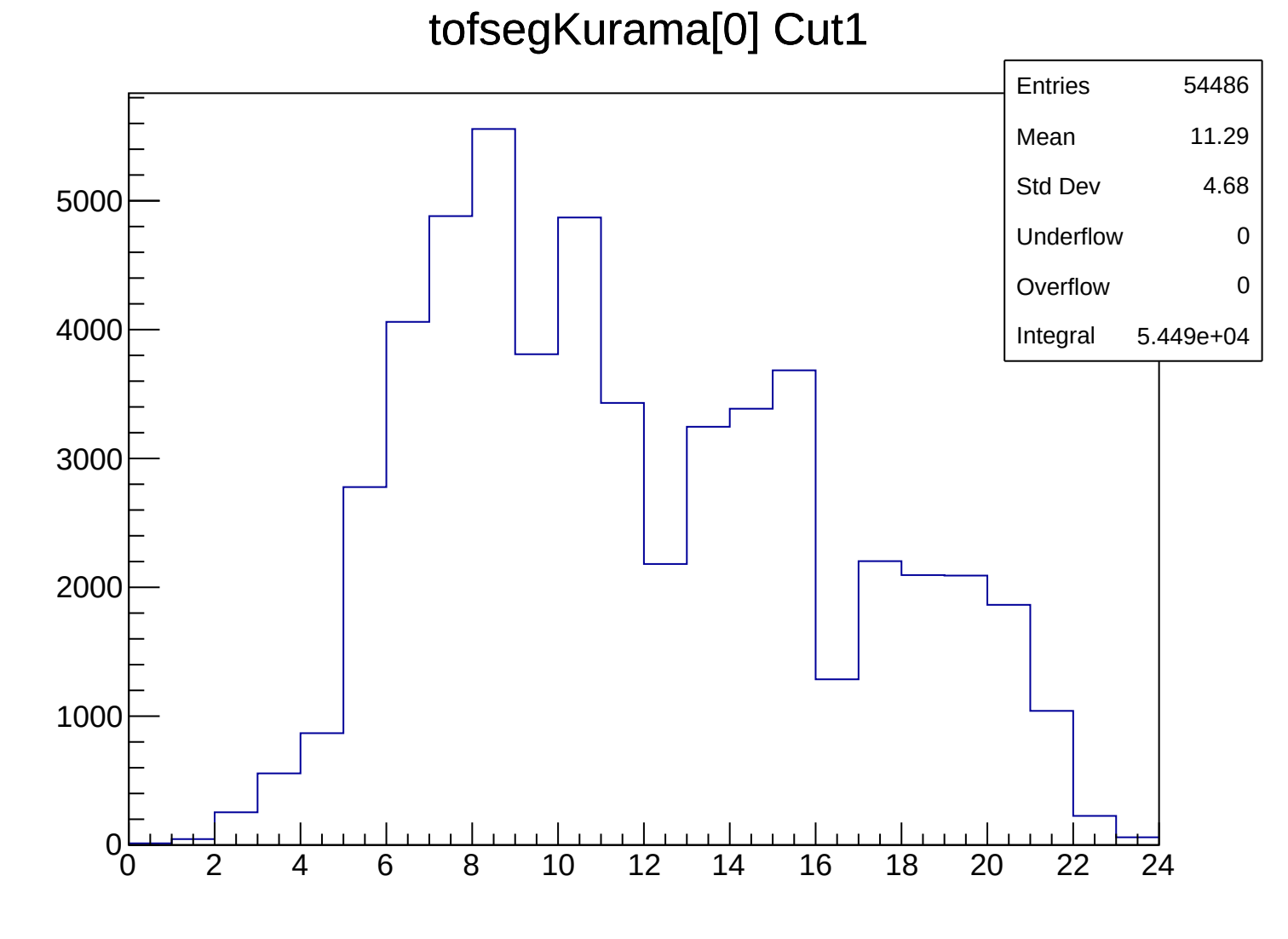

m2 Cut1
Entries 54486
Mean 0.7361
Std Dev 0.2566
Underflow 589
Overflow 1382
Integral 5.252e+04
3500
3000
2500
2000
1500
1000
500
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

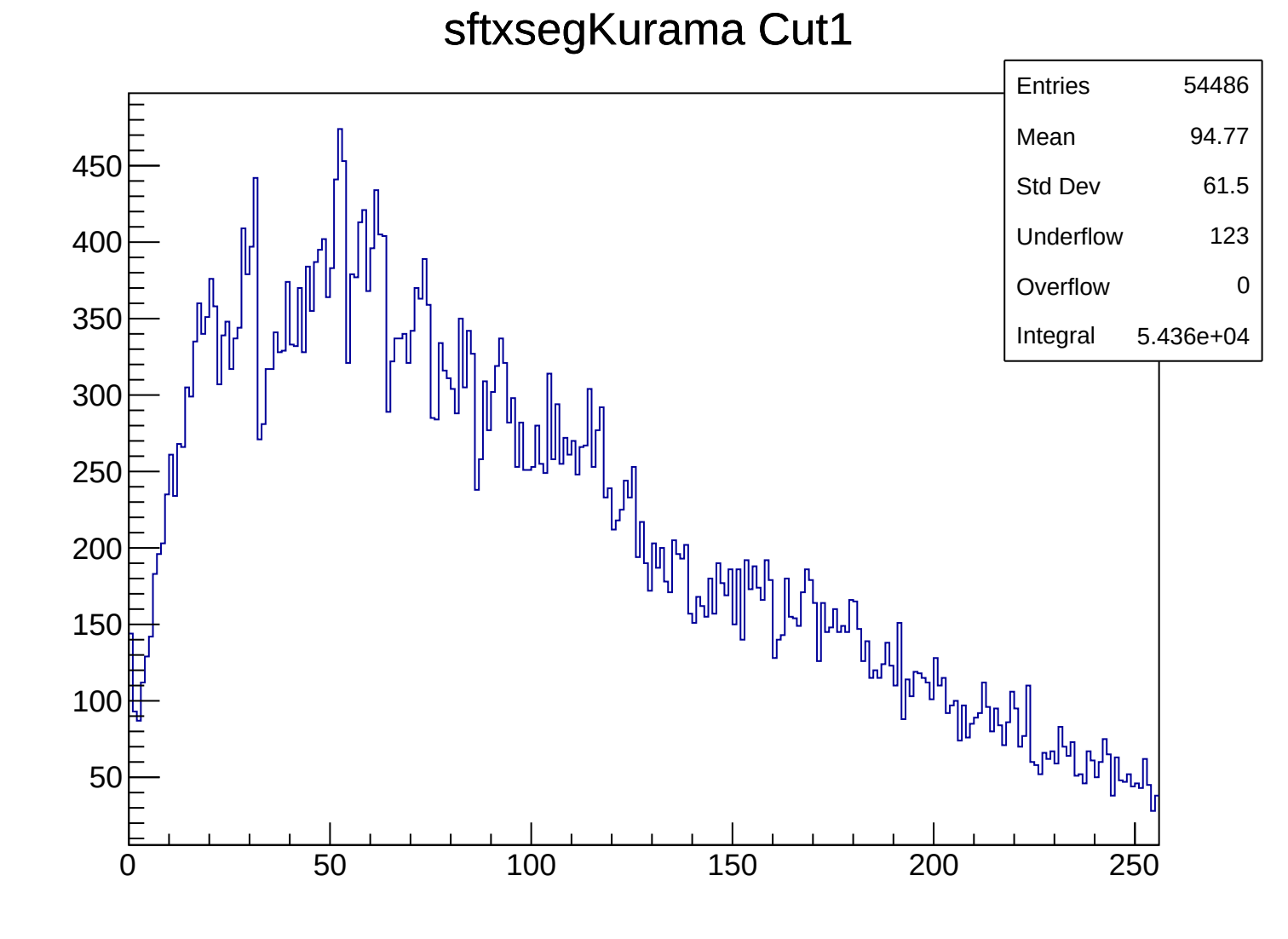

chisqrKurama Cut1
Entries 54486
Mean 8.373
Std Dev 9.087
Underflow 0
Overflow 0
Integral 5.449e+04
14000
12000
10000
8000
6000
4000
2000
0
0
20
40
60
80
100
120
140
160
180
200

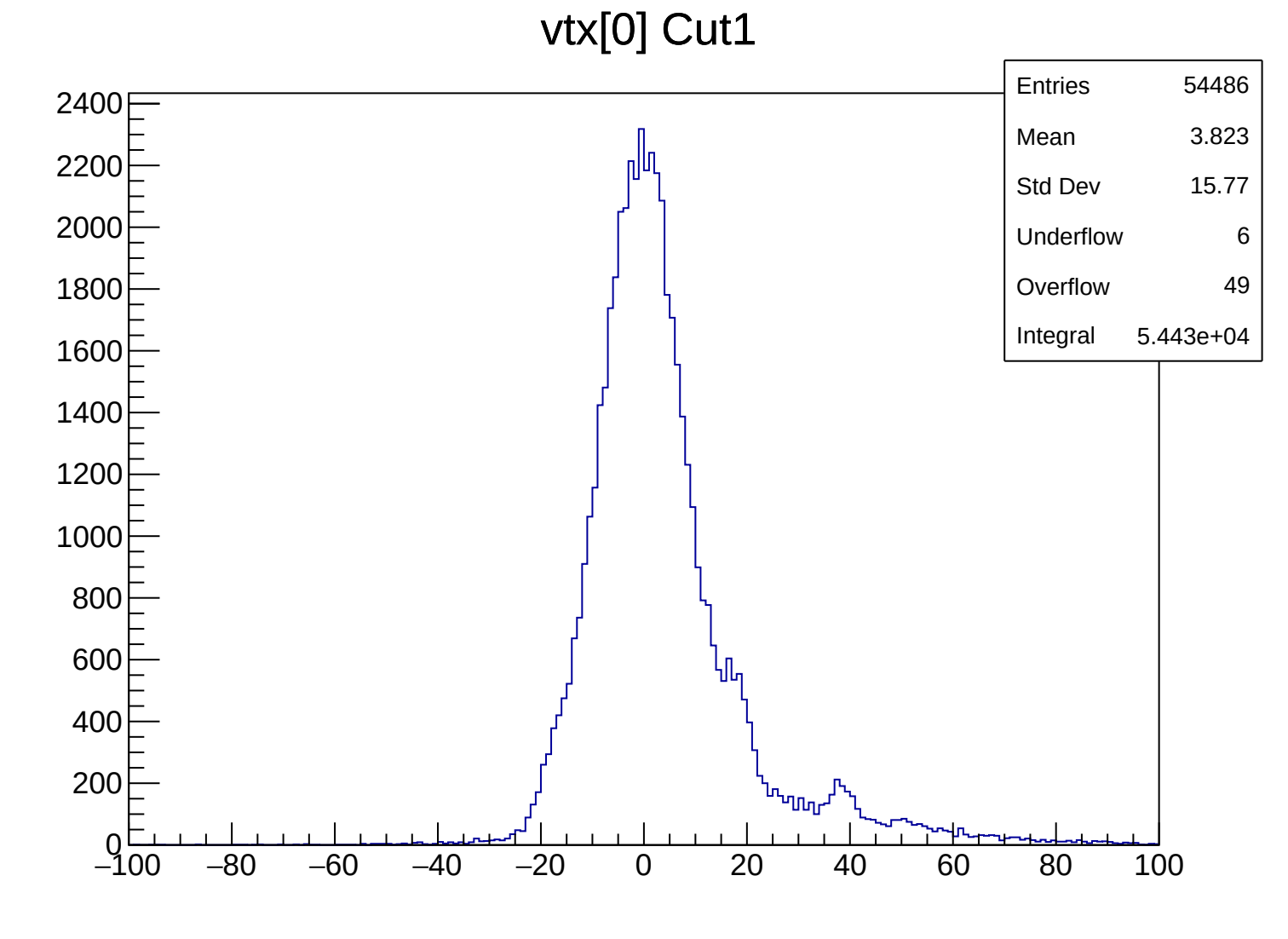

MissMass Sigma Cut1
Entries 755
Mean 1.212
Std Dev 0.04306
Underflow 2
Overflow 0
Integral 753
140
120
100
80
60
40
20
0
0.8
0.9
1
1.1
1.2
1.3
1.4

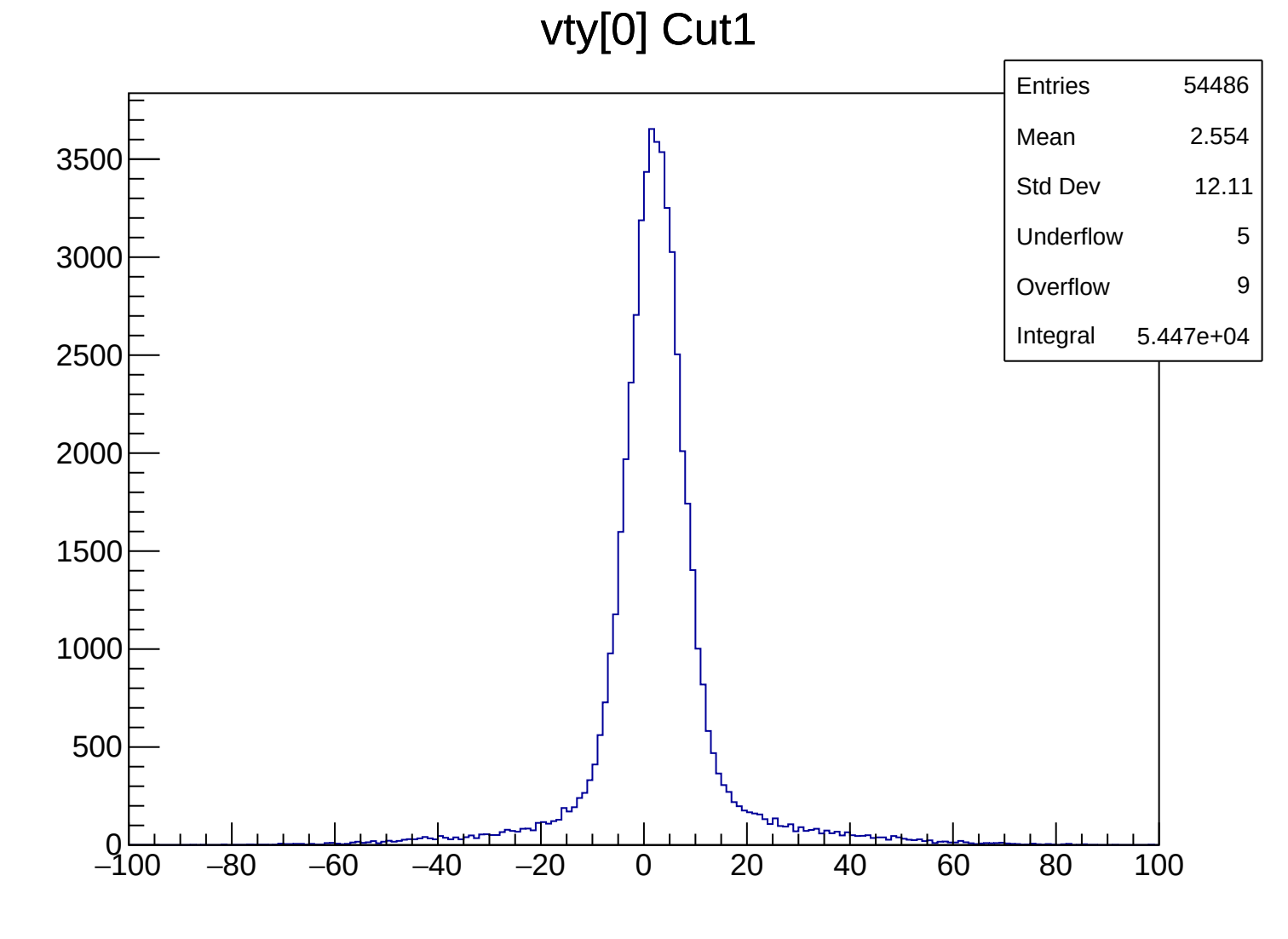

qKurama Cut1
Entries 54486
Mean 0.9684
Std Dev 0.2496
Underflow 0
Overflow 0
Integral 5.449e+04
50000
40000
30000
20000
10000
0
−2
−1.5
−1
−0.5
0
0.5
1
1.5
2

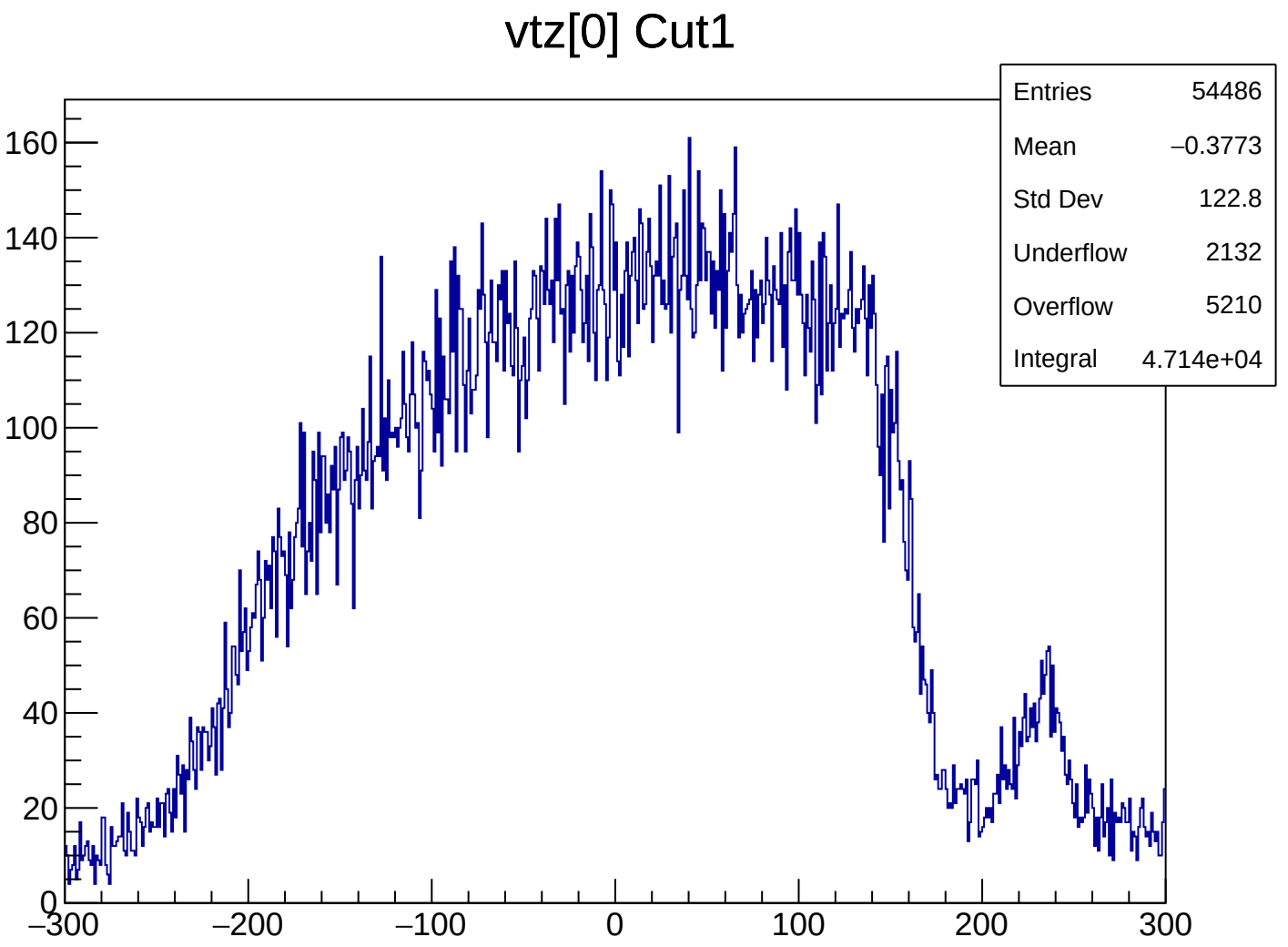

vpseg[1] Cut1
Entries 54486
Mean 27.39
Std Dev 10.63
Underflow 0
Overflow 0
Integral 5.449e+04
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60

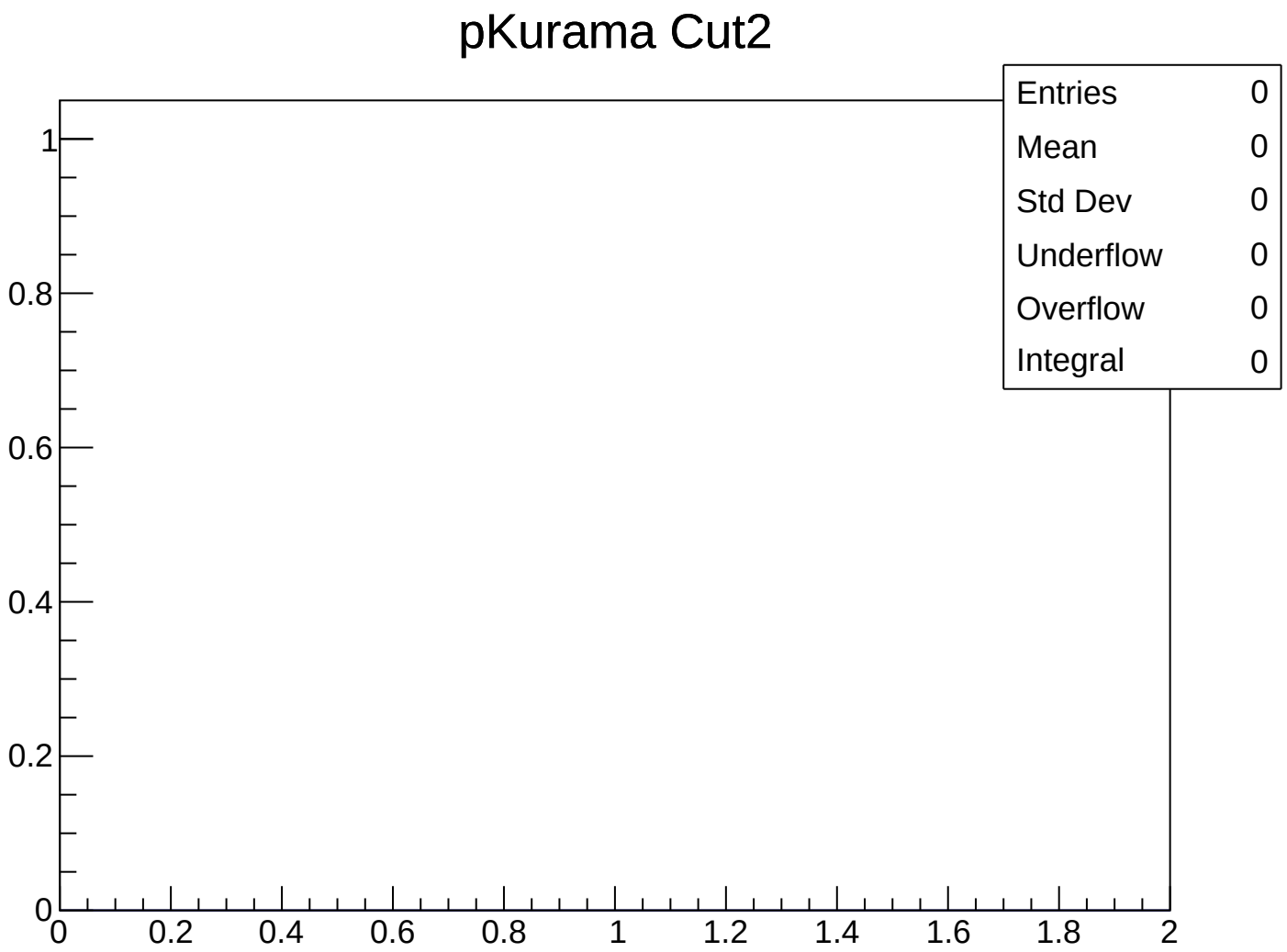

tofsegKurama[0] Cut1
Entries 54486
Mean 11.29
Std Dev 4.68
Underflow 0
Overflow 0
Integral 5.449e+04
5000
4000
3000
2000
1000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

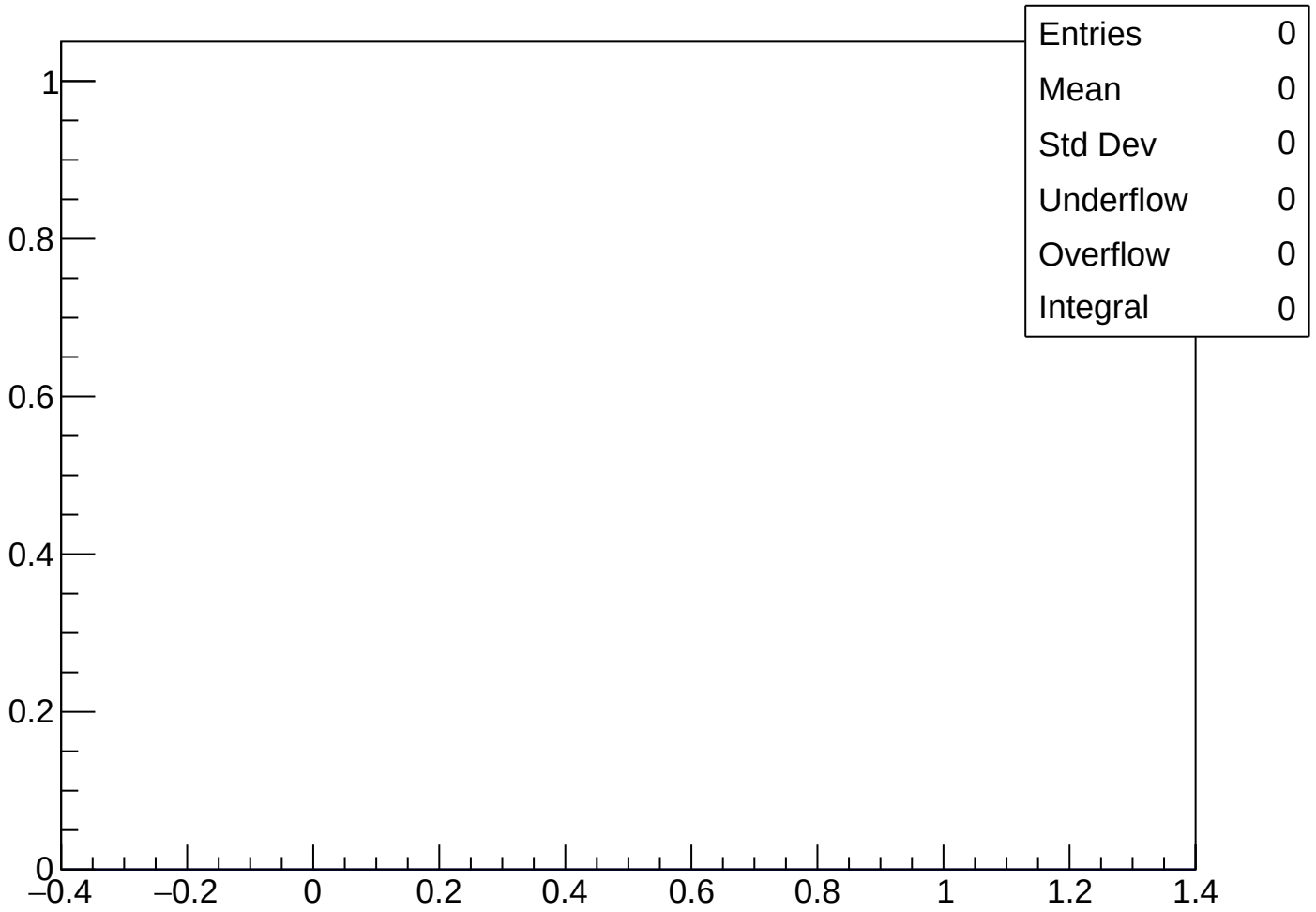

sftxsegKurama Cut1
Entries 54486
Mean 94.77
Std Dev 61.5
Underflow 123
Overflow 0
Integral 5.436e+04
450
400
350
300
250
200
150
100
50
0
50
100
150
200
250

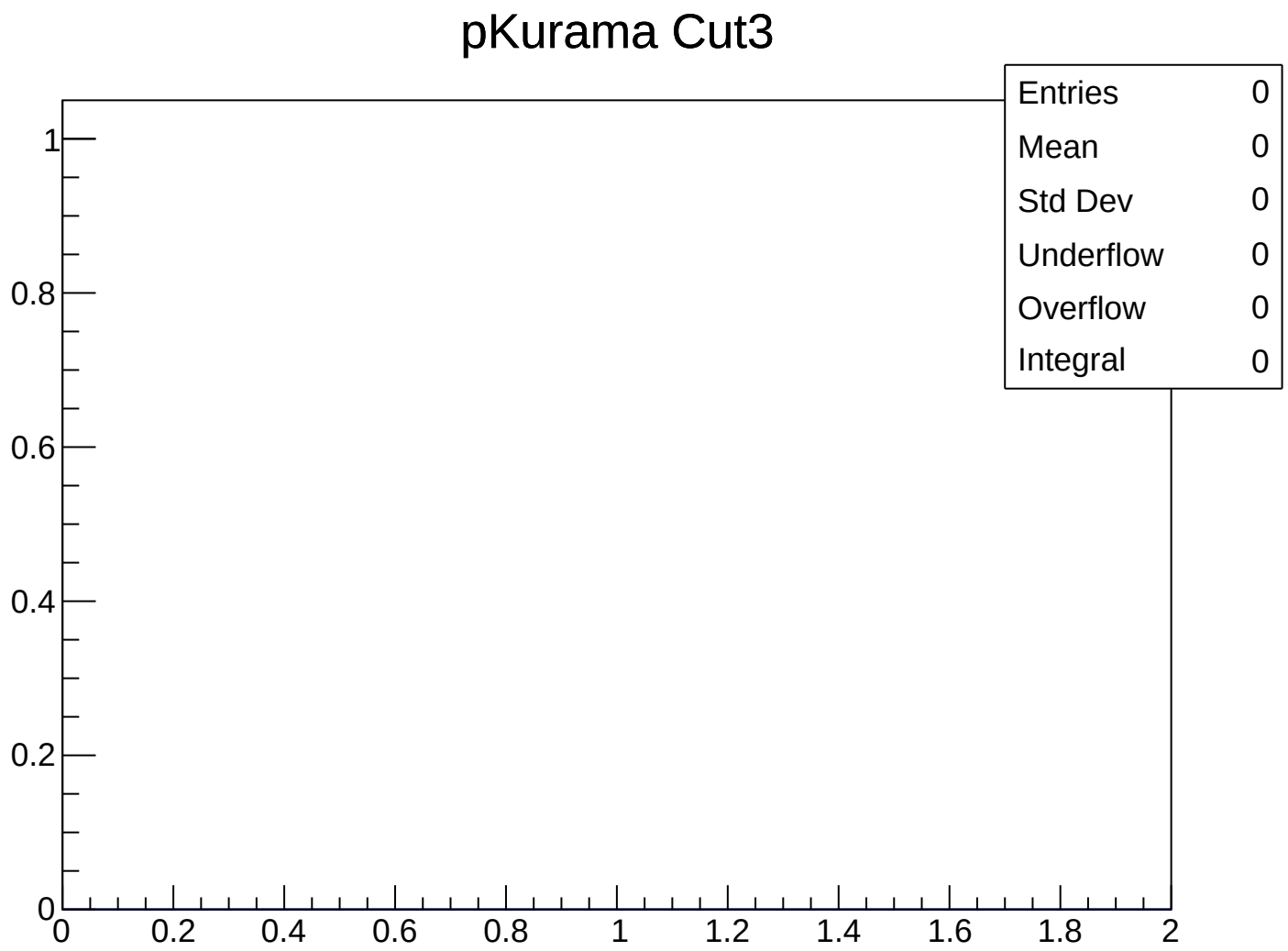

vtx[0] Cut1
Entries 54486
Mean 3.823
Std Dev 15.77
Underflow 6
Overflow 49
Integral 5.443e+04
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−100
−80
−60
−40
−20
0
20
40
60
80
100

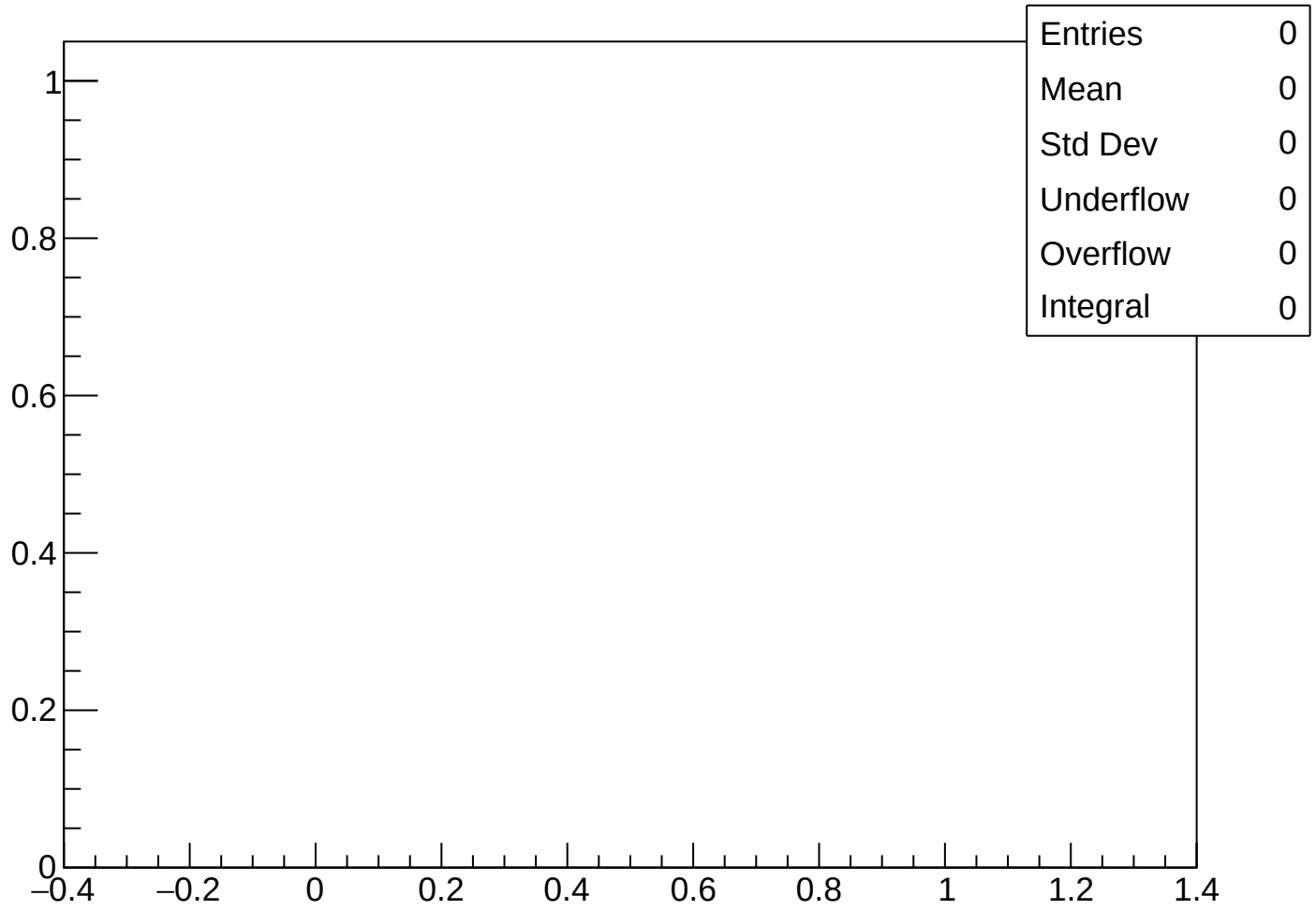

vty[0] Cut1
Entries 54486
Mean 2.554
Std Dev 12.11
Underflow 5
Overflow 9
Integral 5.447e+04
3500
3000
2500
2000
1500
1000
500
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

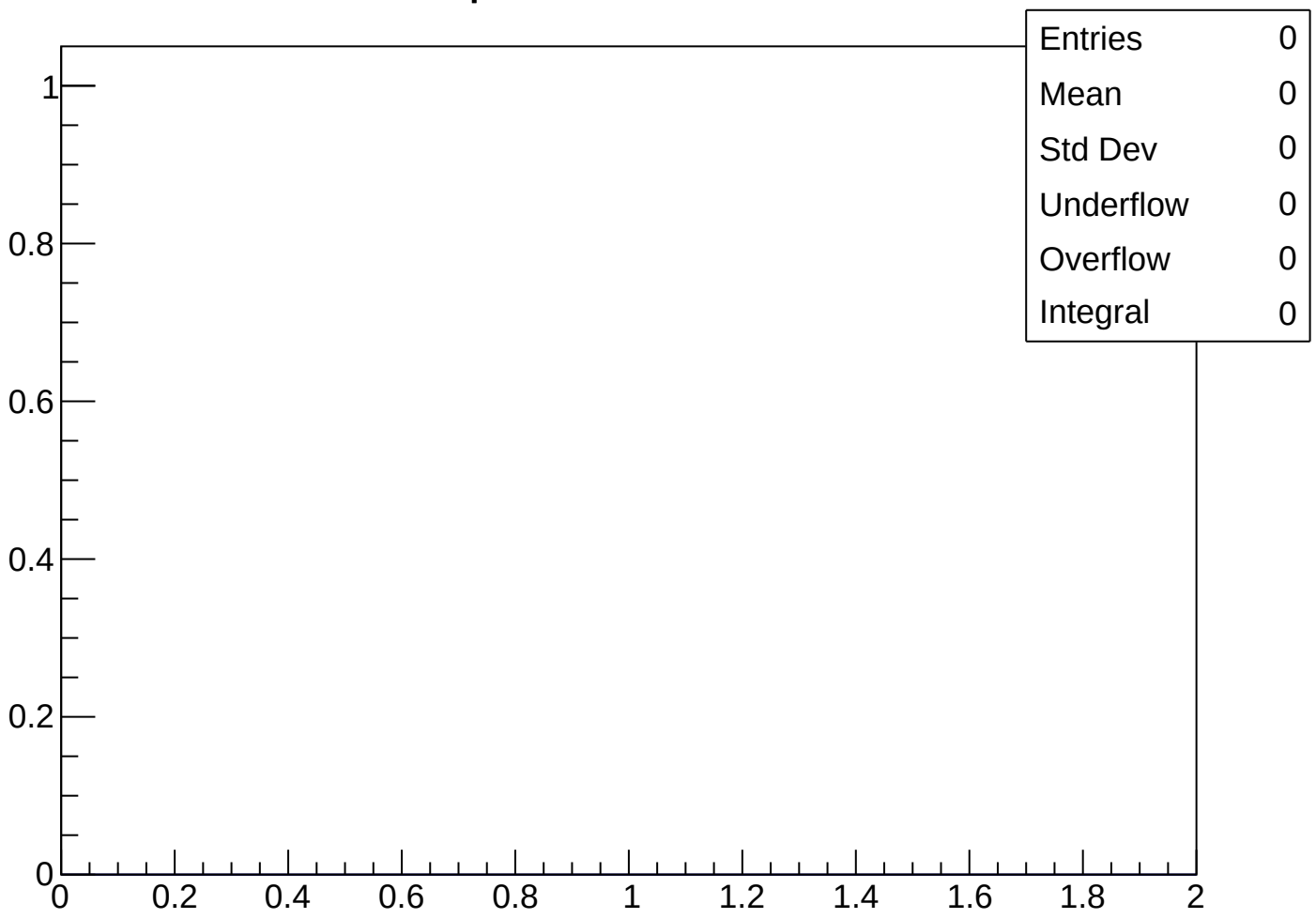

vtz[0] Cut1
Entries 54486
Mean −0.3773
Std Dev 122.8
Underflow 2132
Overflow 5210
Integral 4.714e+04
160
140
120
100
80
60
40
20
0
−300
−200
−100
0
100
200
300

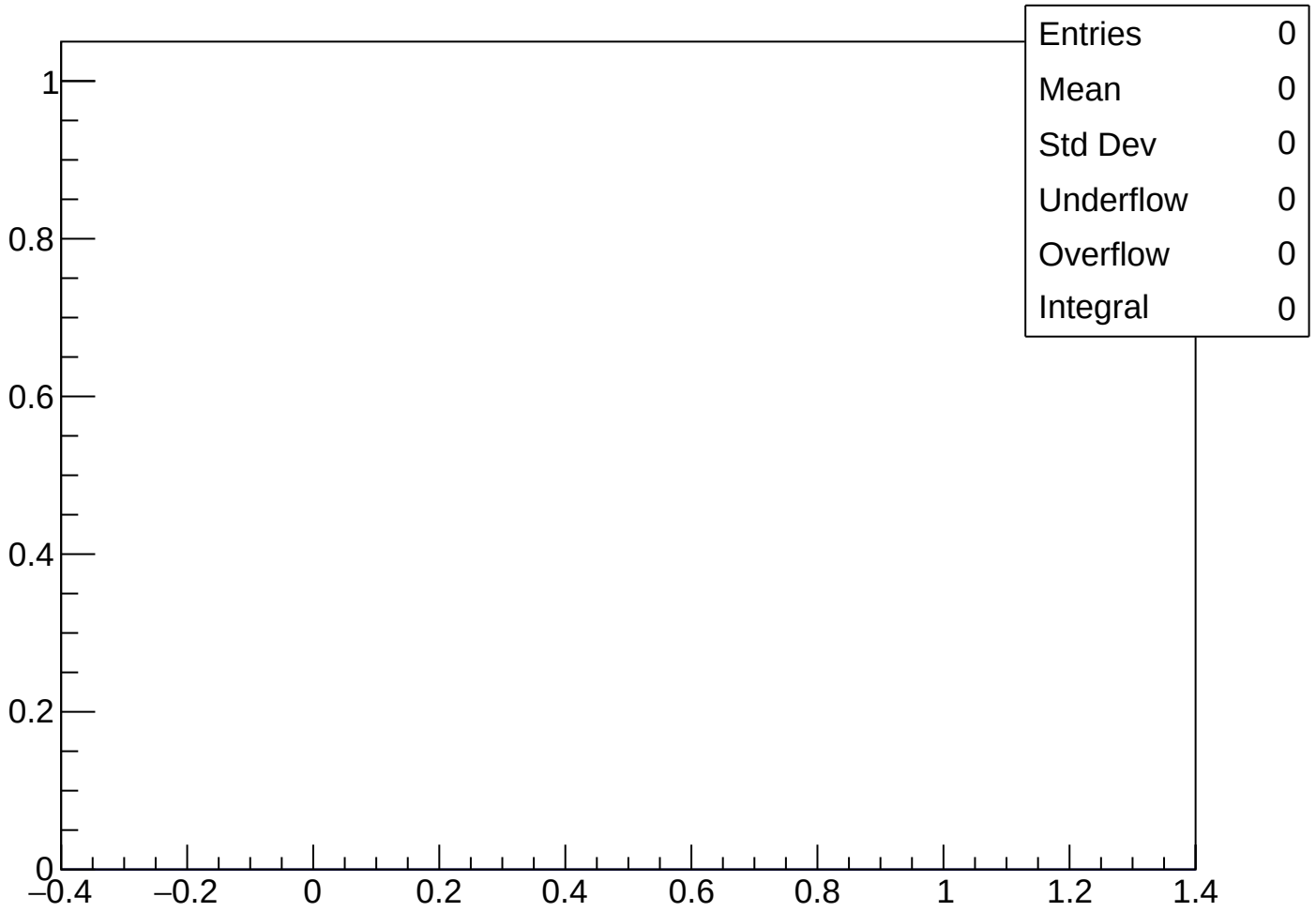

pKurama Cut2
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

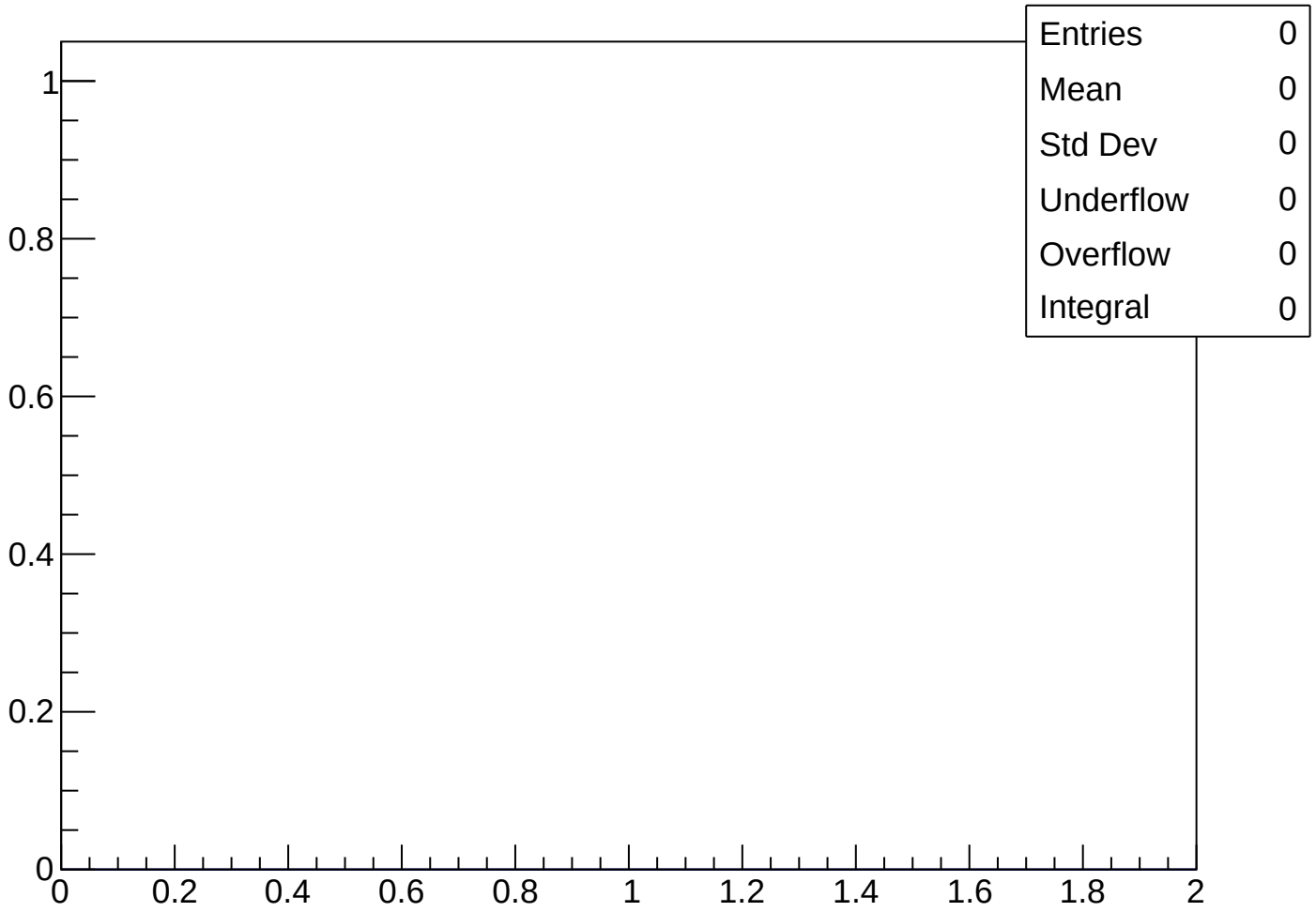

m2 Cut2
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

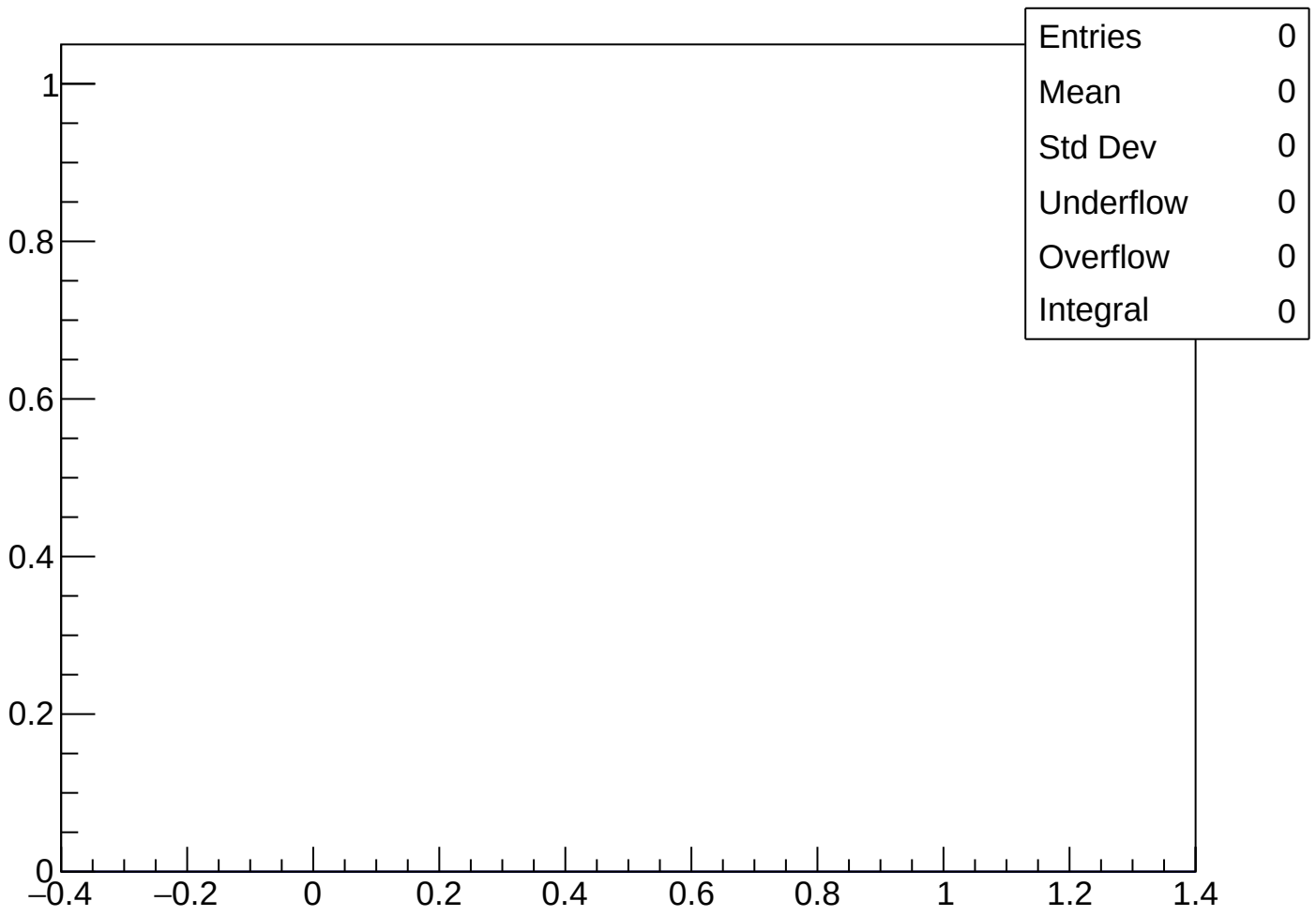

pKurama Cut3
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

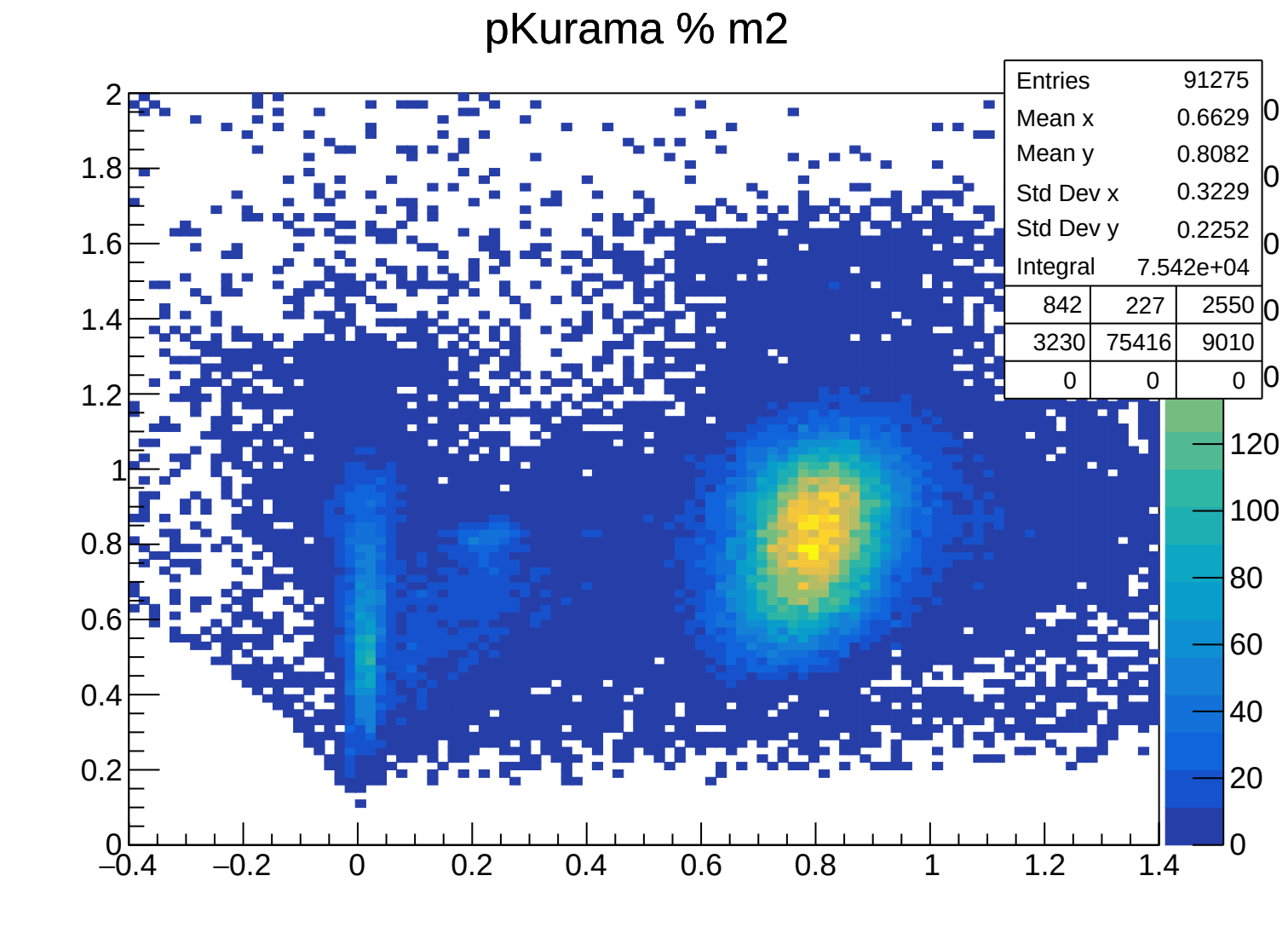

m2 Cut3
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

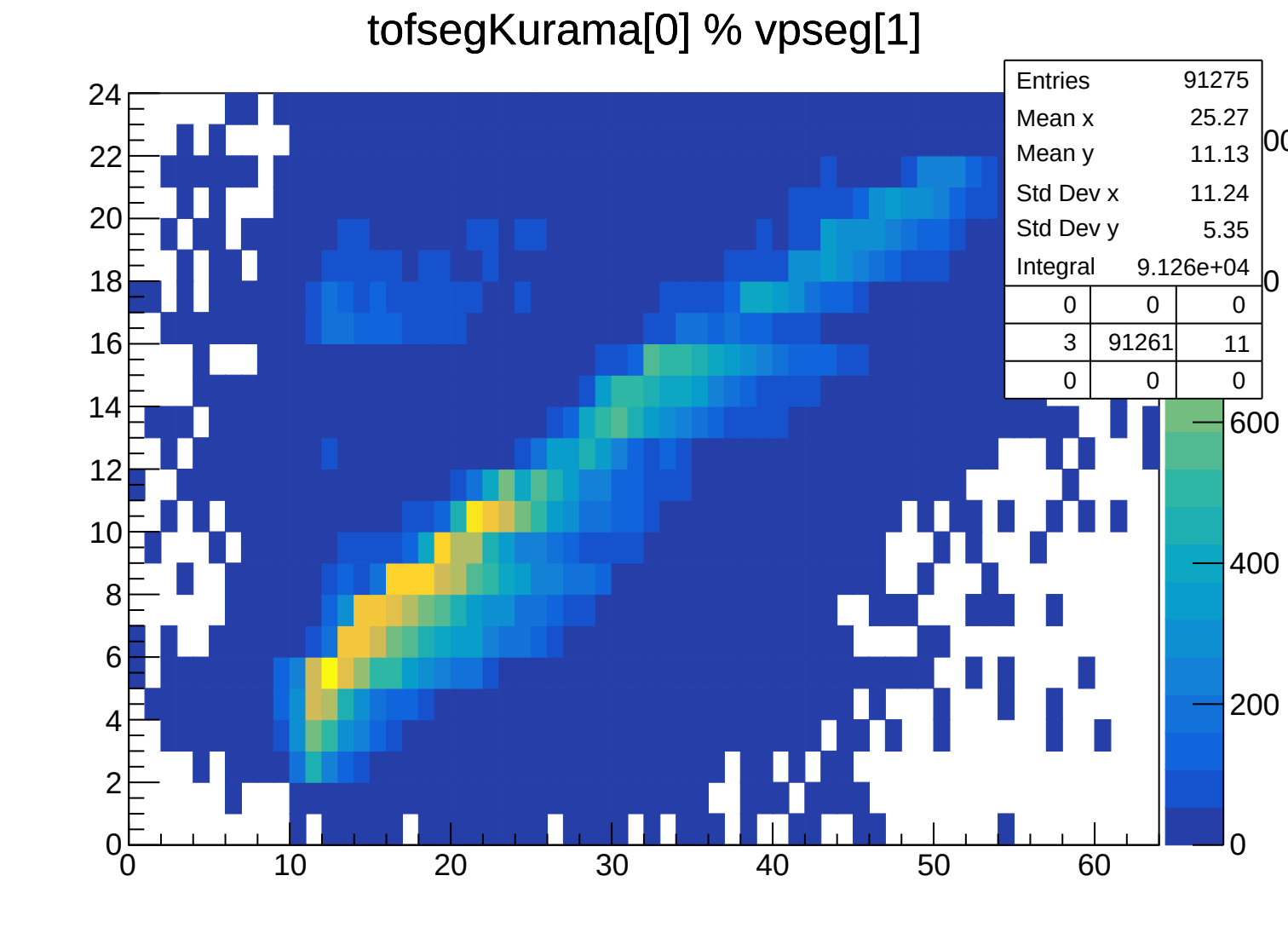

pKurama Cut4
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2

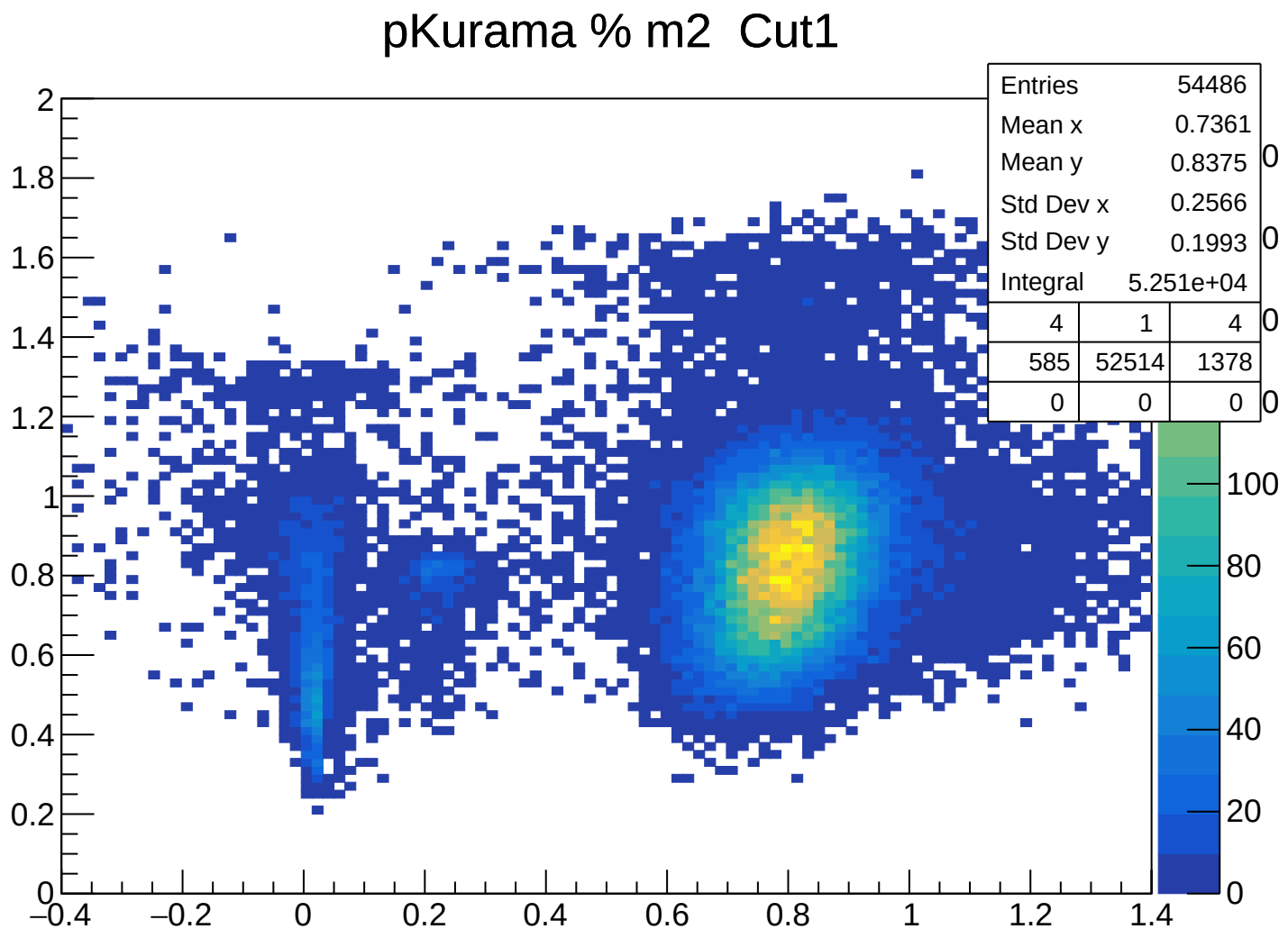

m2 Cut4
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

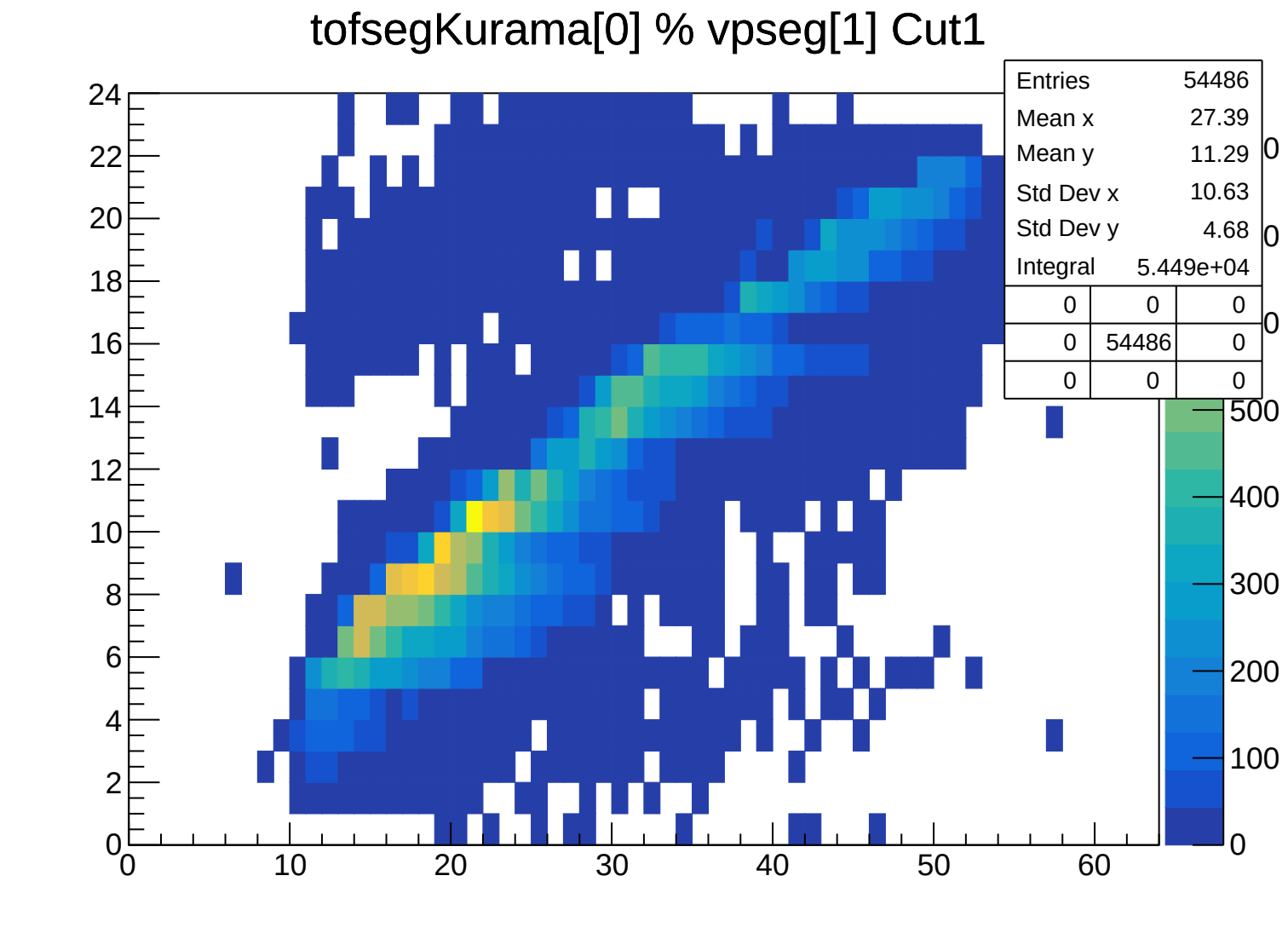

pKurama Cut5
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2

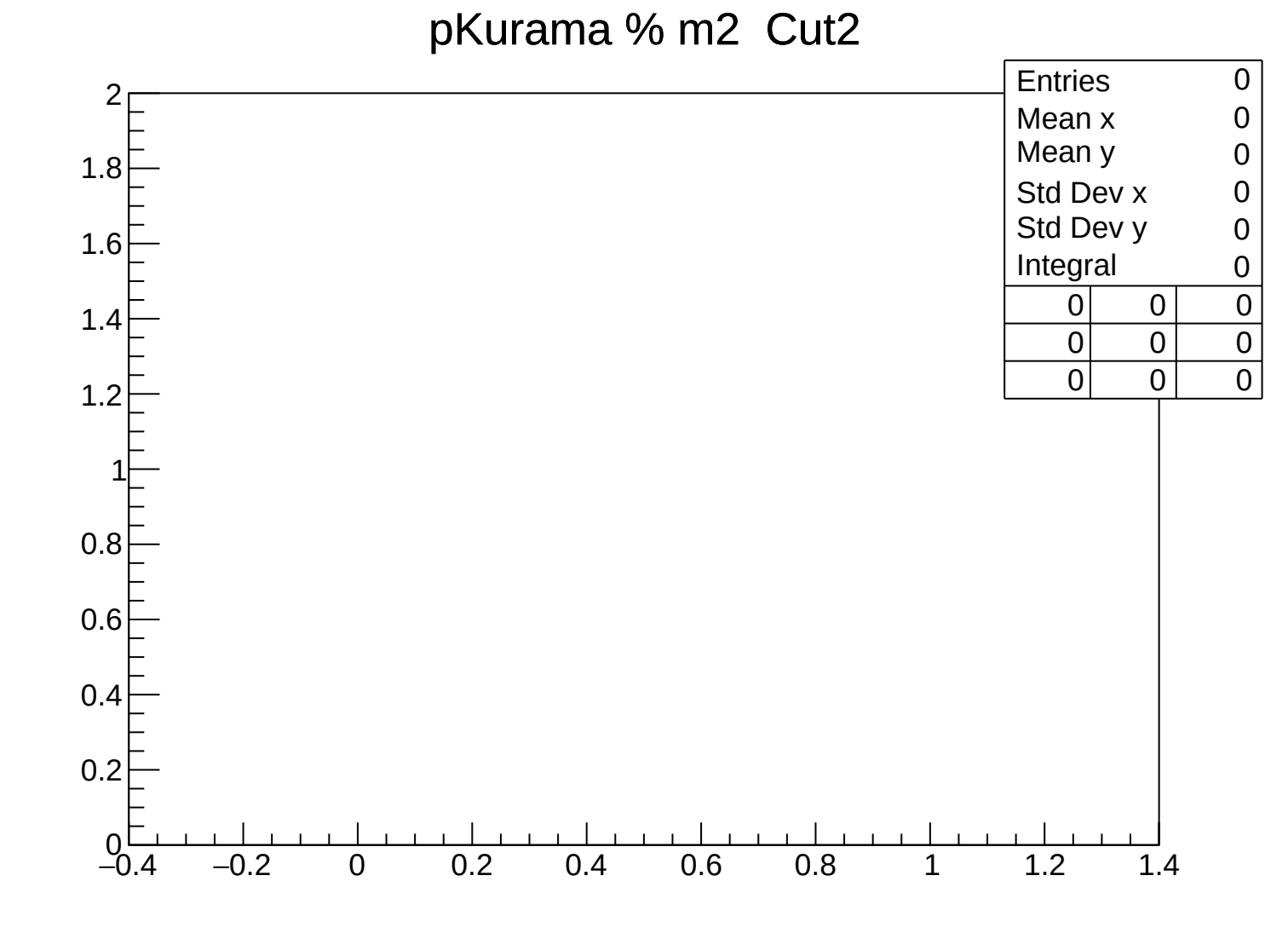

m2 Cut5
Entries 0
Mean 0
Std Dev 0
Underflow 0
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4

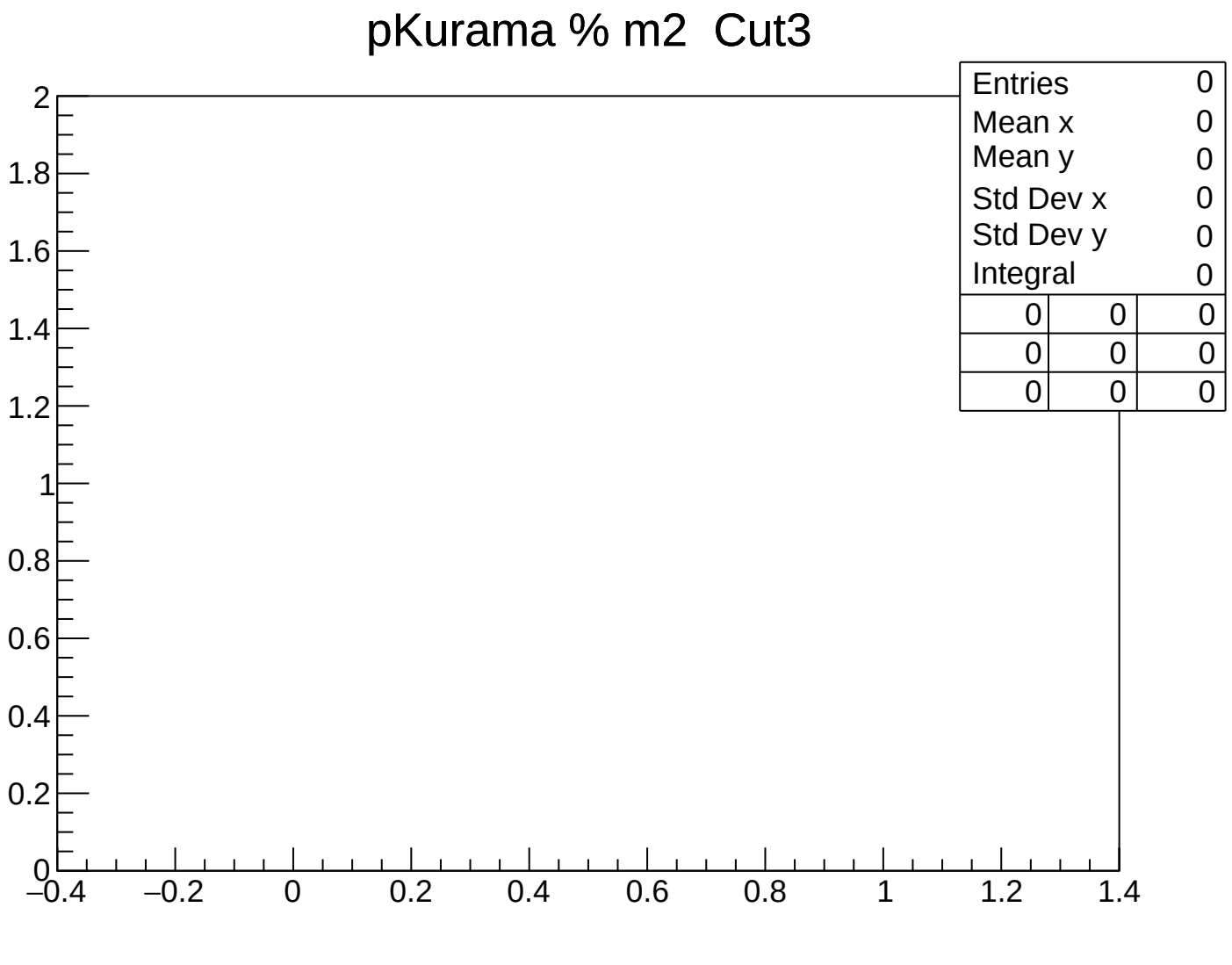

pKurama % m2
Entries 91275
Mean x 0.6629
Mean y 0.8082
Std Dev x 0.3229
Std Dev y 0.2252
Integral 7.542e+04
842 227 2550
3230 75416 9010
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
120
100
80
60
40
20
0

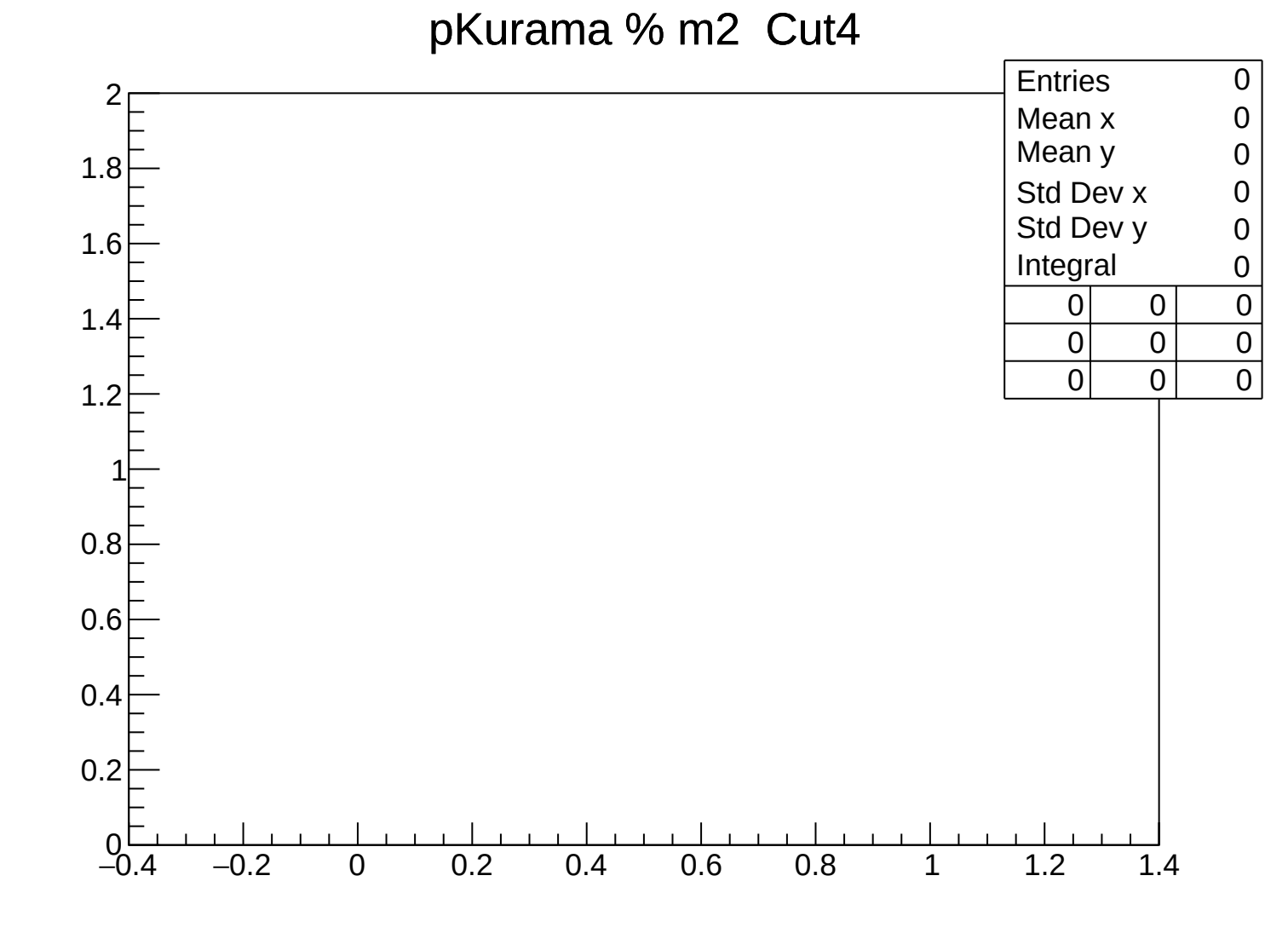

tofsegKurama[0] % vpseg[1]
Entries 91275
Mean x 25.27
Mean y 11.13
Std Dev x 11.24
Std Dev y 5.35
Integral 9.126e+04
0 0 0
3 91261 11
0 0 0
24
22
20
18
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
600
400
200
0

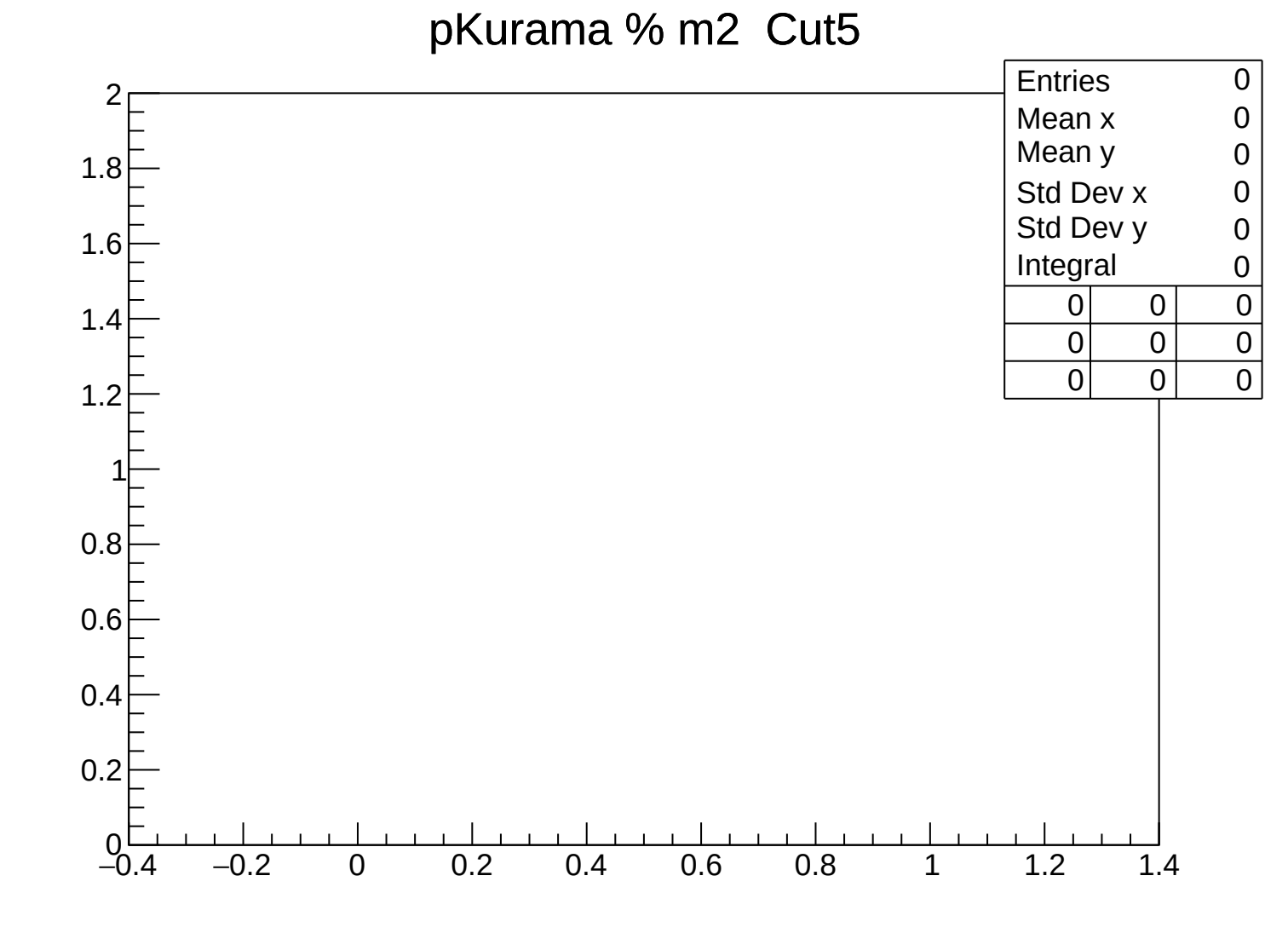

pKurama % m2 Cut1
Entries 54486
Mean x 0.7361
Mean y 0.8375
Std Dev x 0.2566
Std Dev y 0.1993
Integral 5.251e+04
4 1 4
585 52514 1378
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4
100
80
60
40
20
0

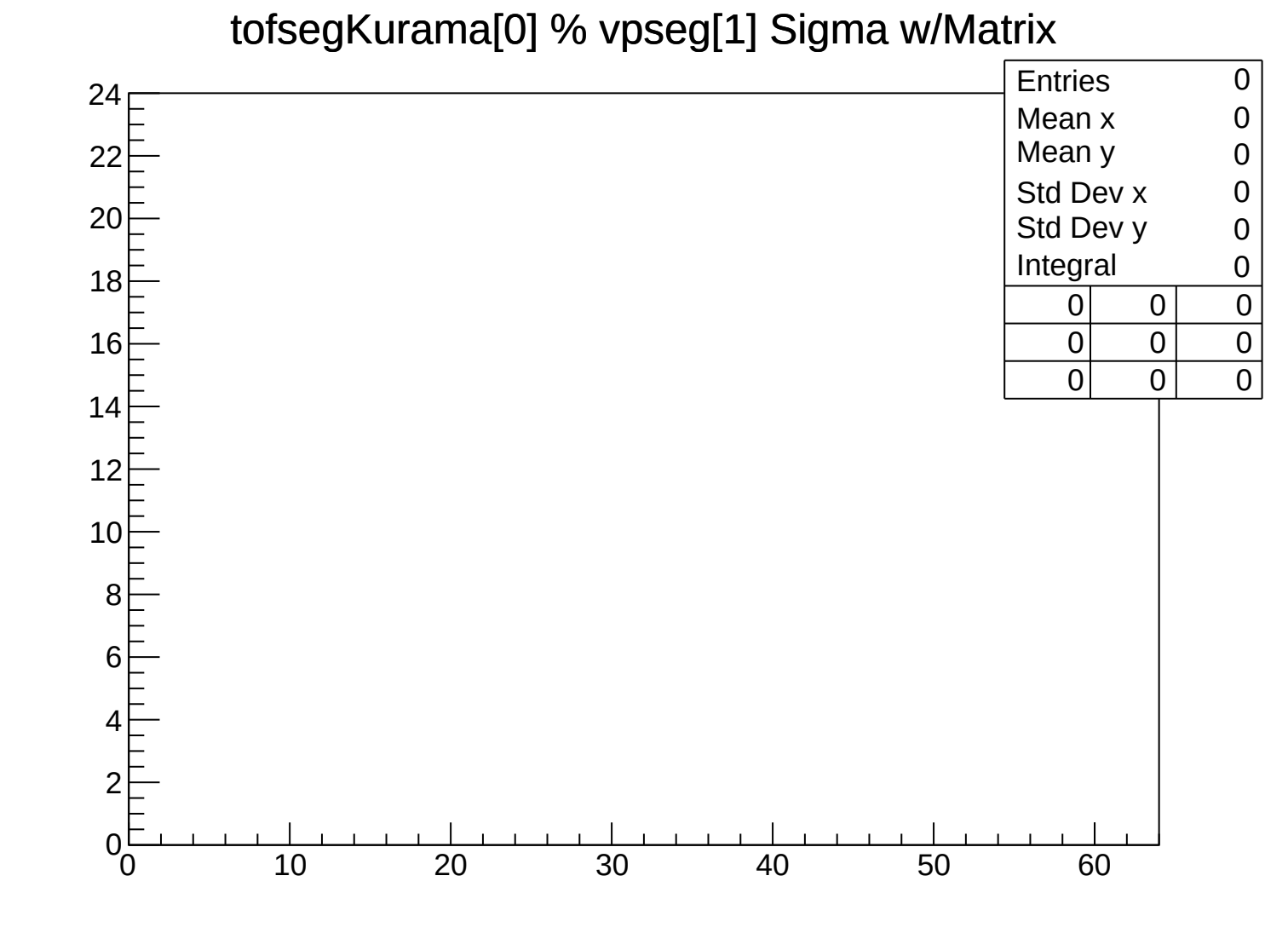

tofsegKurama[0] % vpseg[1] Cut1
Entries 54486
Mean x 27.39
Mean y 11.29
Std Dev x 10.63
Std Dev y 4.68
Integral 5.449e+04
0 0 0
0 54486 0
0 0 0
0 2 4 6 8 10 12 14 16 18 20 22 24
0 10 20 30 40 50 60
0 100 200 300 400 500

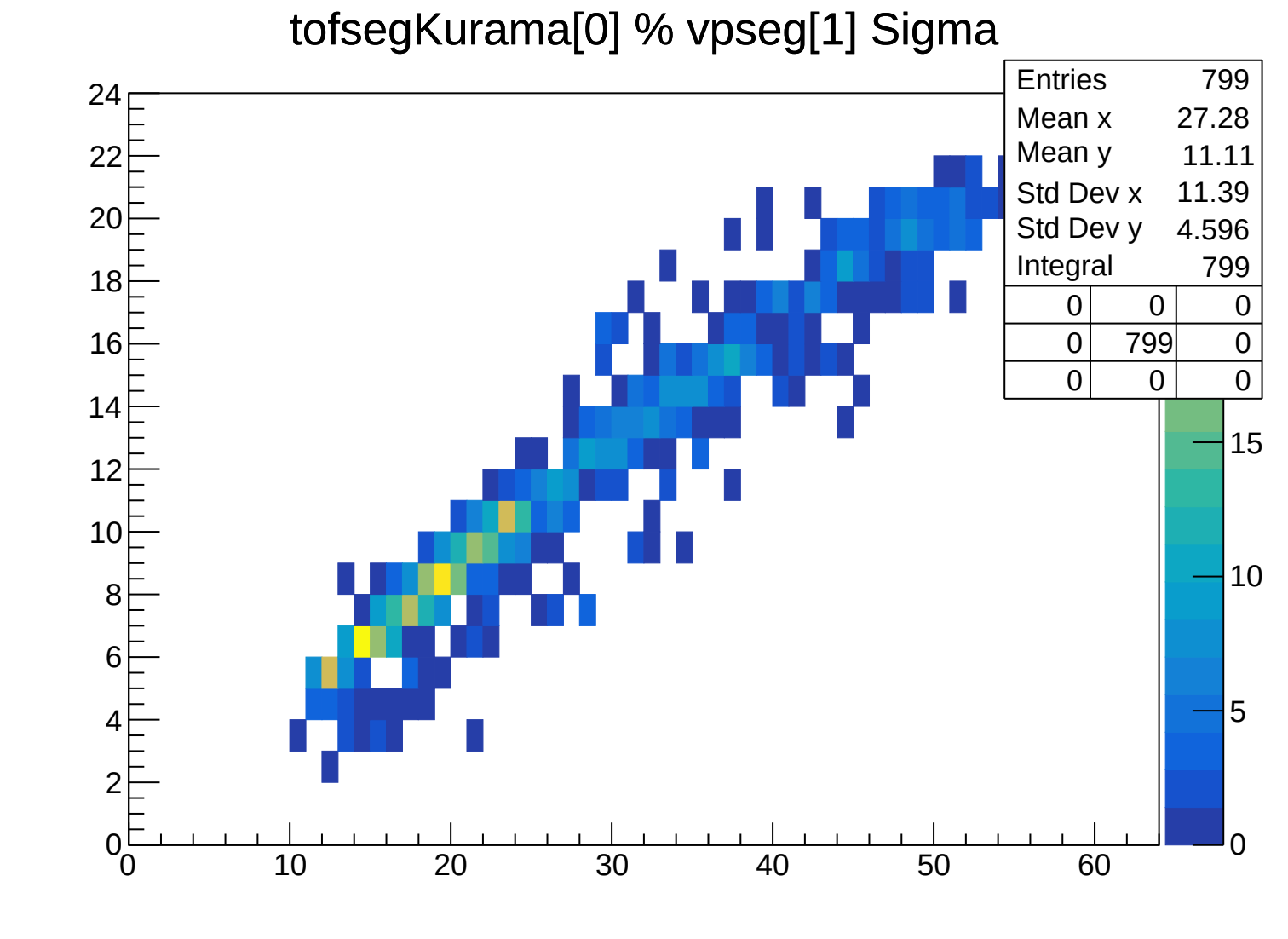

pKurama % m2 Cut2
Entries 0
Mean x 0
Mean y 0
Std Dev x 0
Std Dev y 0
Integral 0
0 0 0
0 0 0
0 0 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–0.4
–0.2
0
0.2
0.4
0.6
0.8
1
1.2
1.4


pKurama % m2 Cut3
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
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


pKurama % m2 Cut4
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
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


pKurama % m2 Cut5
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
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


tofsegKurama[0] % vpseg[1] Sigma w/Matrix
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
24
22
20
18
16
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60


tofsegKurama[0] % vpseg[1] Sigma
Entries 799
Mean x 27.28
Mean y 11.11
Std Dev x 11.39
Std Dev y 4.596
Integral 799
0 0 0
0 799 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