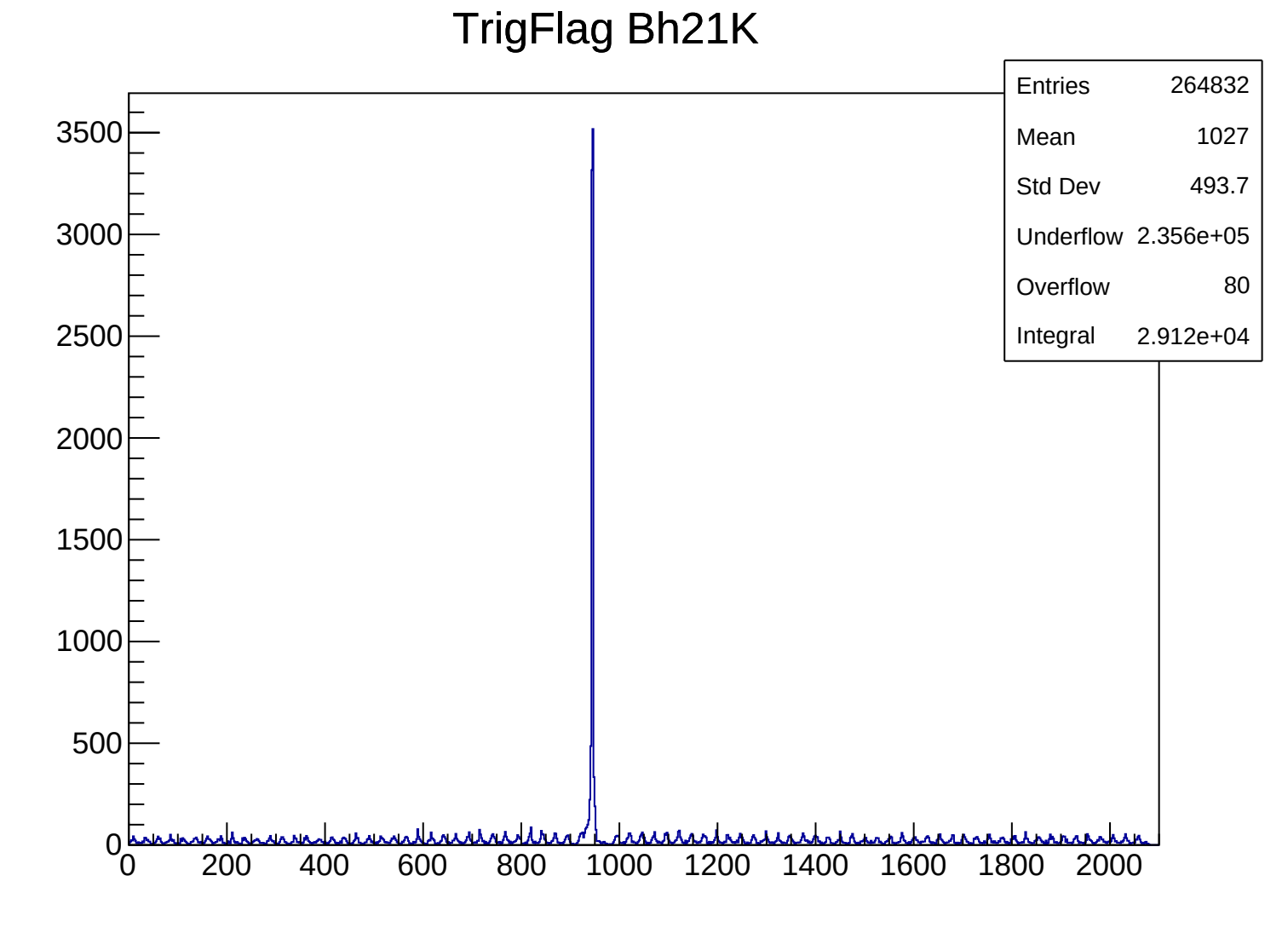
TrigFlag Bh21K
Entries 264832
Mean 1027
Std Dev 493.7
Underflow 2.356e+05
Overflow 80
Integral 2.912e+04
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2500
2000
1500
1000
500
0
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600
800
1000
1200
1400
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1800
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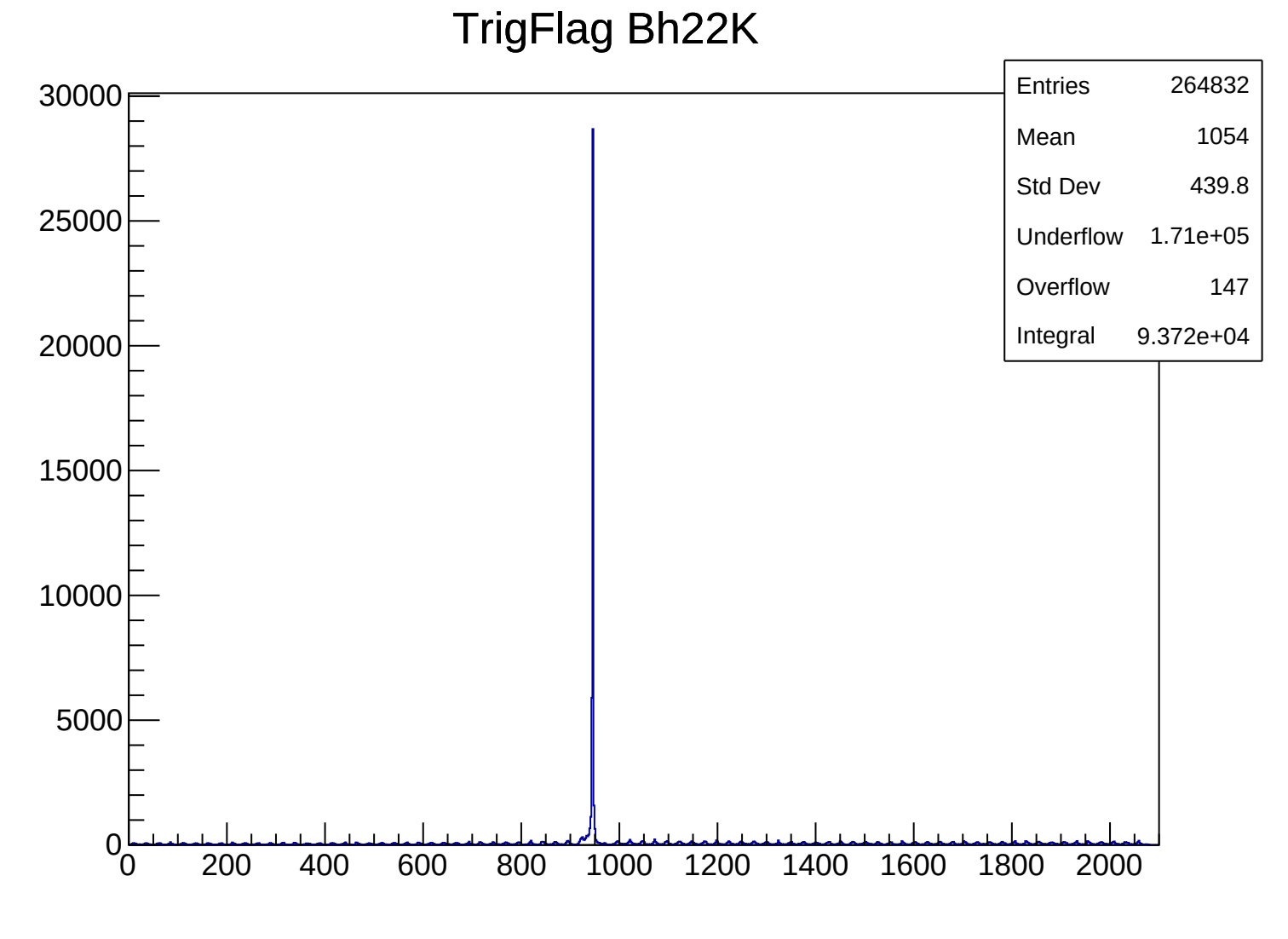
TrigFlag Bh22K
Entries 264832
Mean 1054
Std Dev 439.8
Underflow 1.71e+05
Overflow 147
Integral 9.372e+04
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15000
10000
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1800
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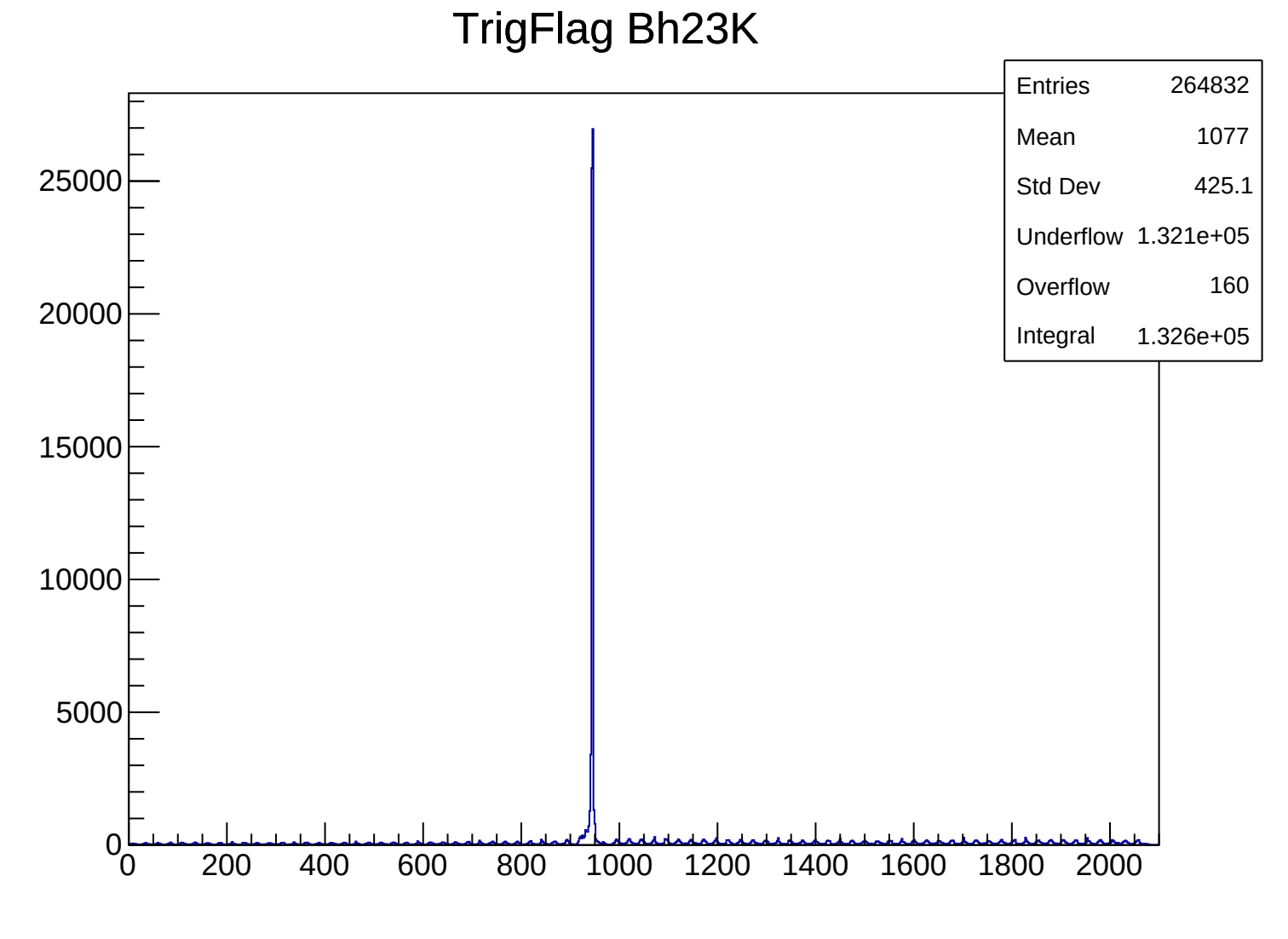
TrigFlag Bh23K
Entries 264832
Mean 1077
Std Dev 425.1
Underflow 1.321e+05
Overflow 160
Integral 1.326e+05
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1800
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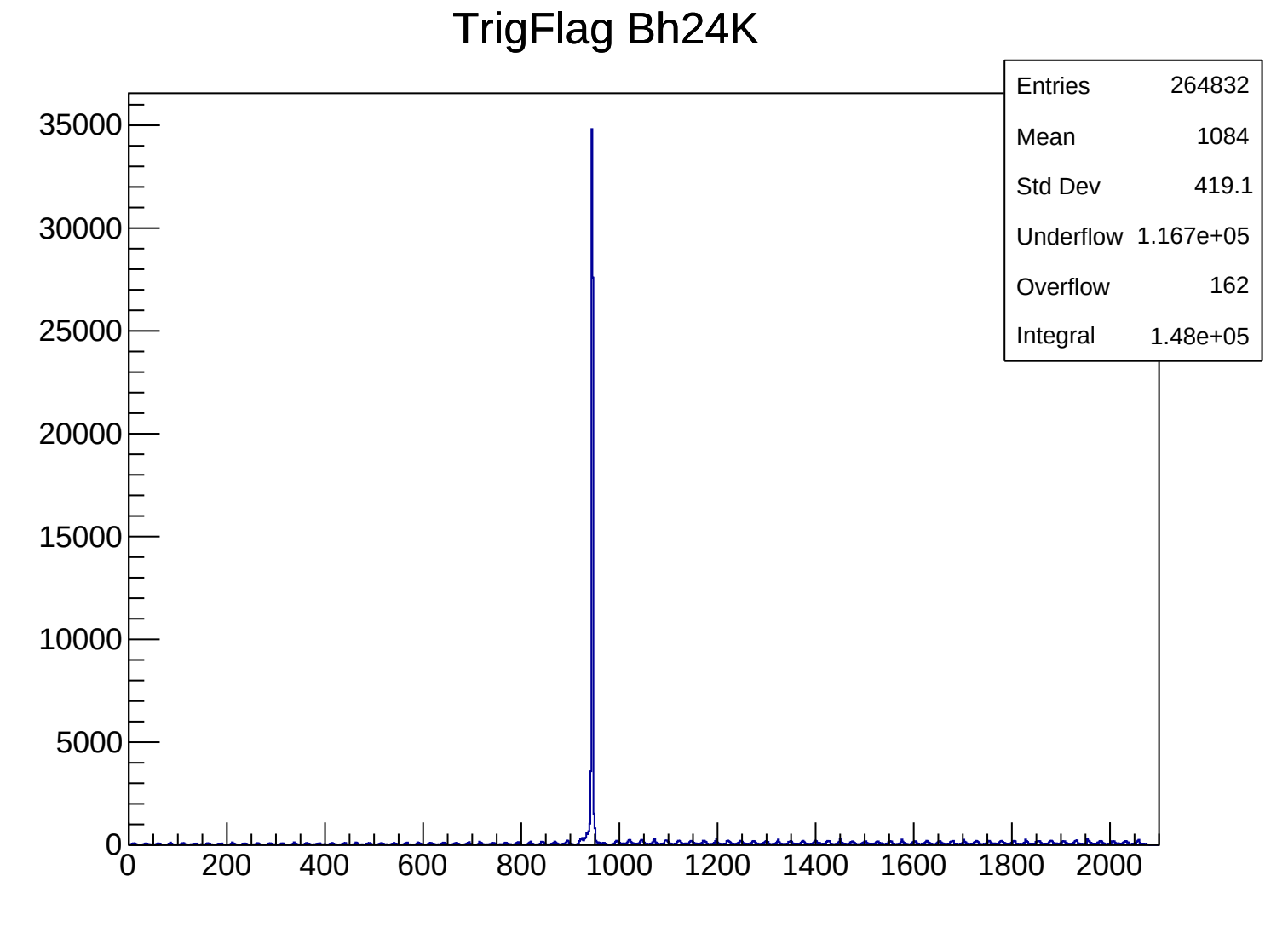
TrigFlag Bh24K
Entries 264832
Mean 1084
Std Dev 419.1
Underflow 1.167e+05
Overflow 162
Integral 1.48e+05
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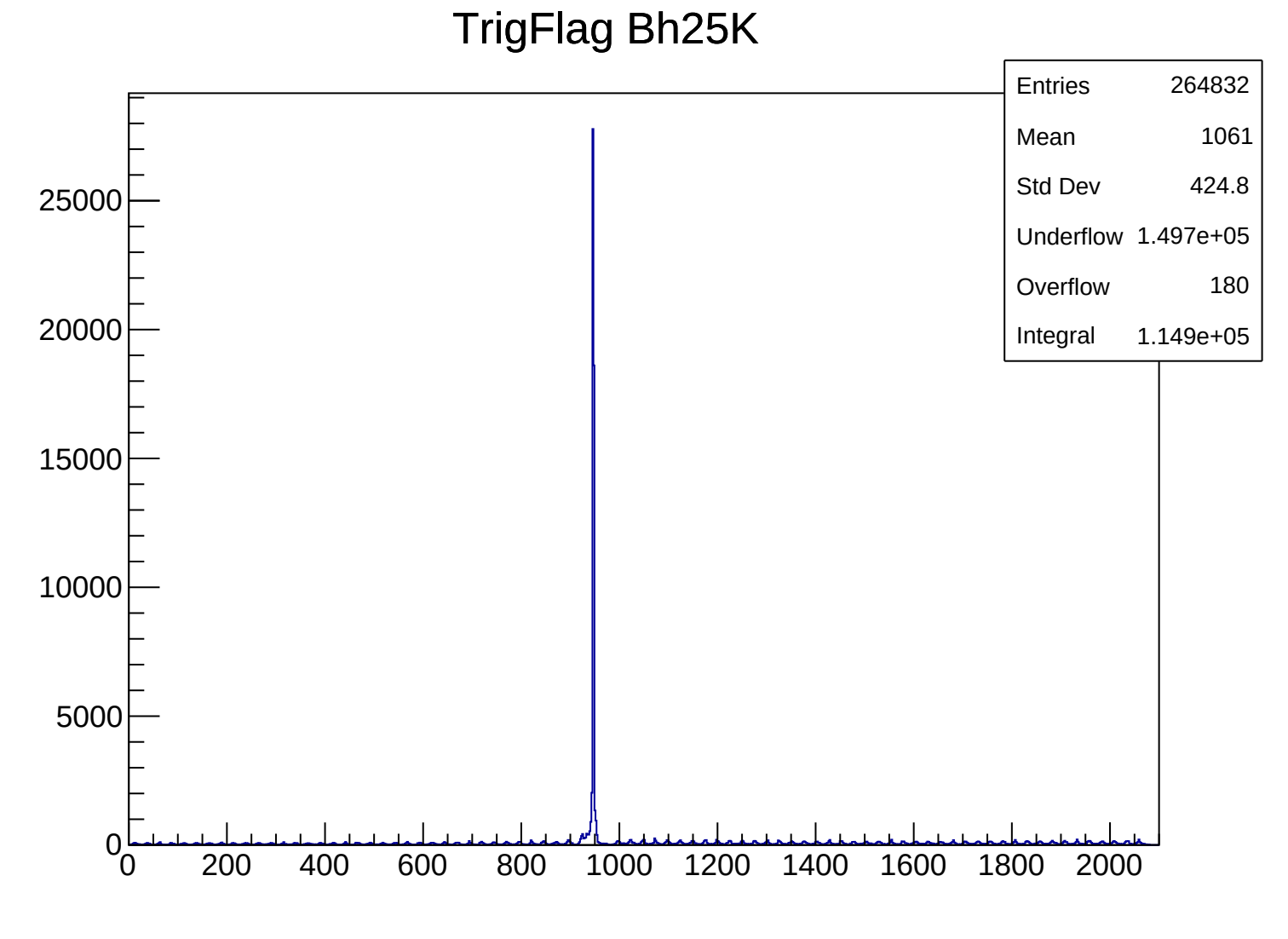
TrigFlag Bh25K
Entries 264832
Mean 1061
Std Dev 424.8
Underflow 1.497e+05
Overflow 180
Integral 1.149e+05
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10000
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0
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600
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1800
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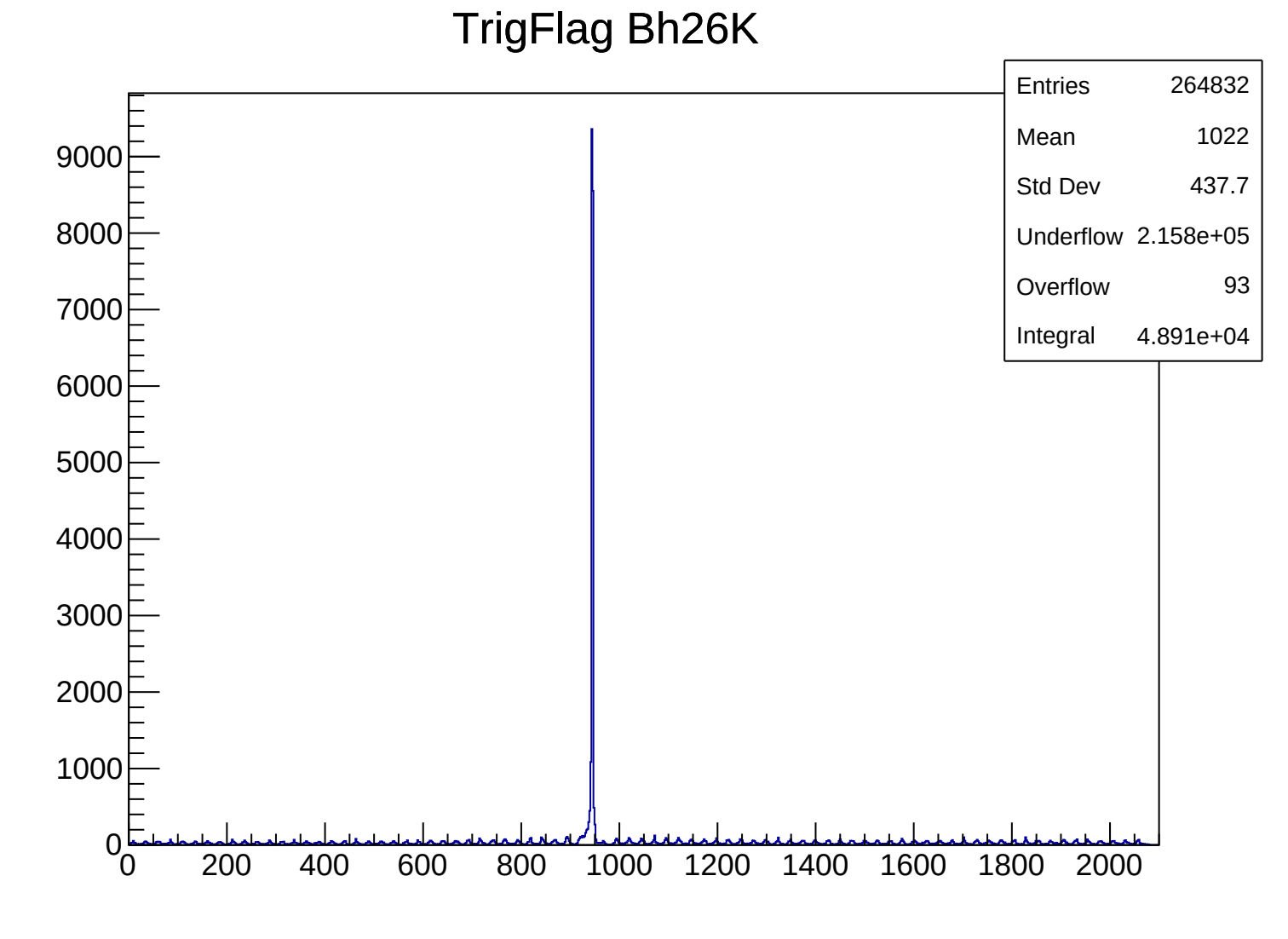
TrigFlag Bh26K
Entries 264832
Mean 1022
Std Dev 437.7
Underflow 2.158e+05
Overflow 93
Integral 4.891e+04
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8000
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6000
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4000
3000
2000
1000
0
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1800
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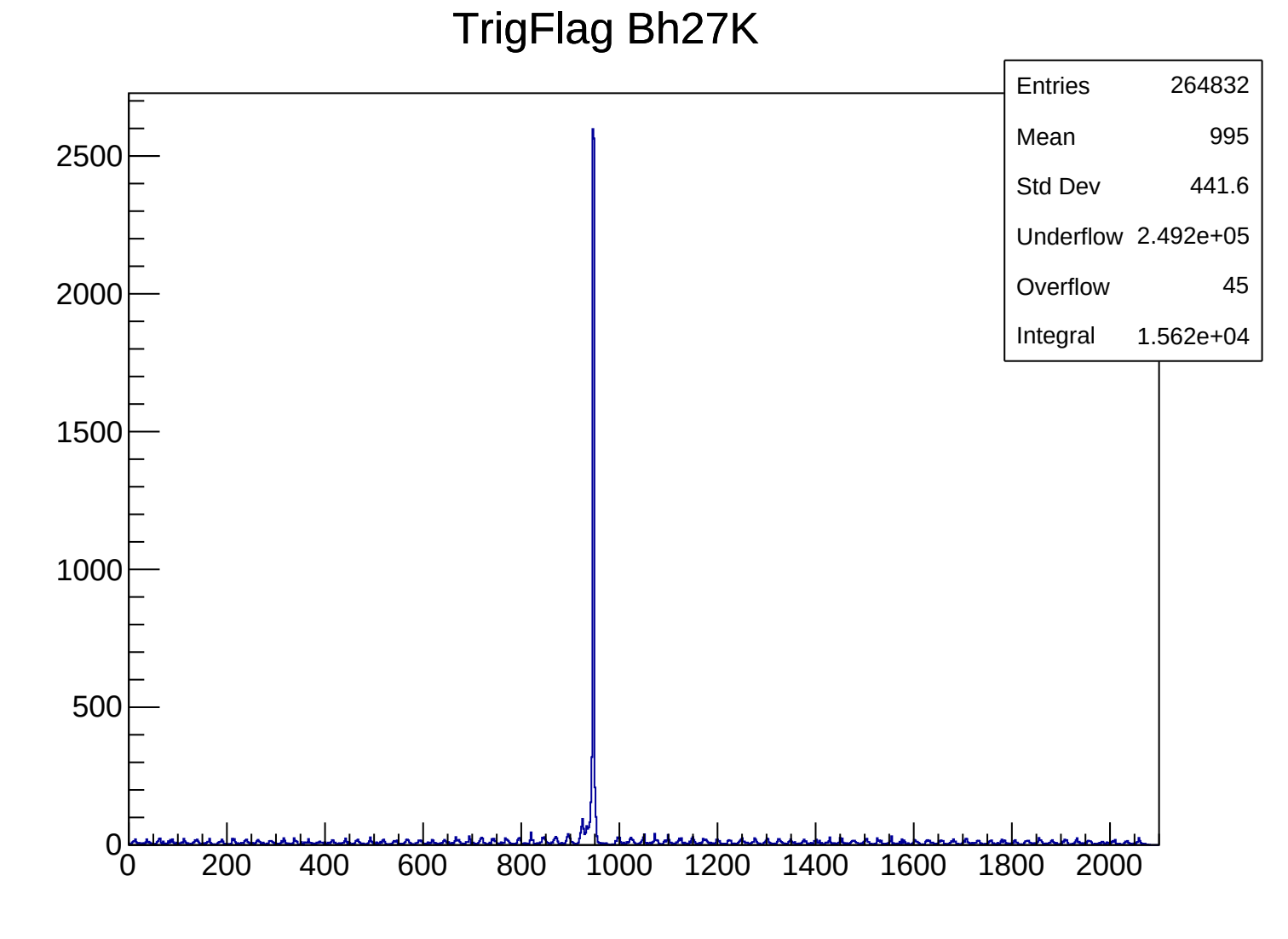
TrigFlag Bh27K
Entries 264832
Mean 995
Std Dev 441.6
Underflow 2.492e+05
Overflow 45
Integral 1.562e+04
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2000
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500
0
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600
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1800
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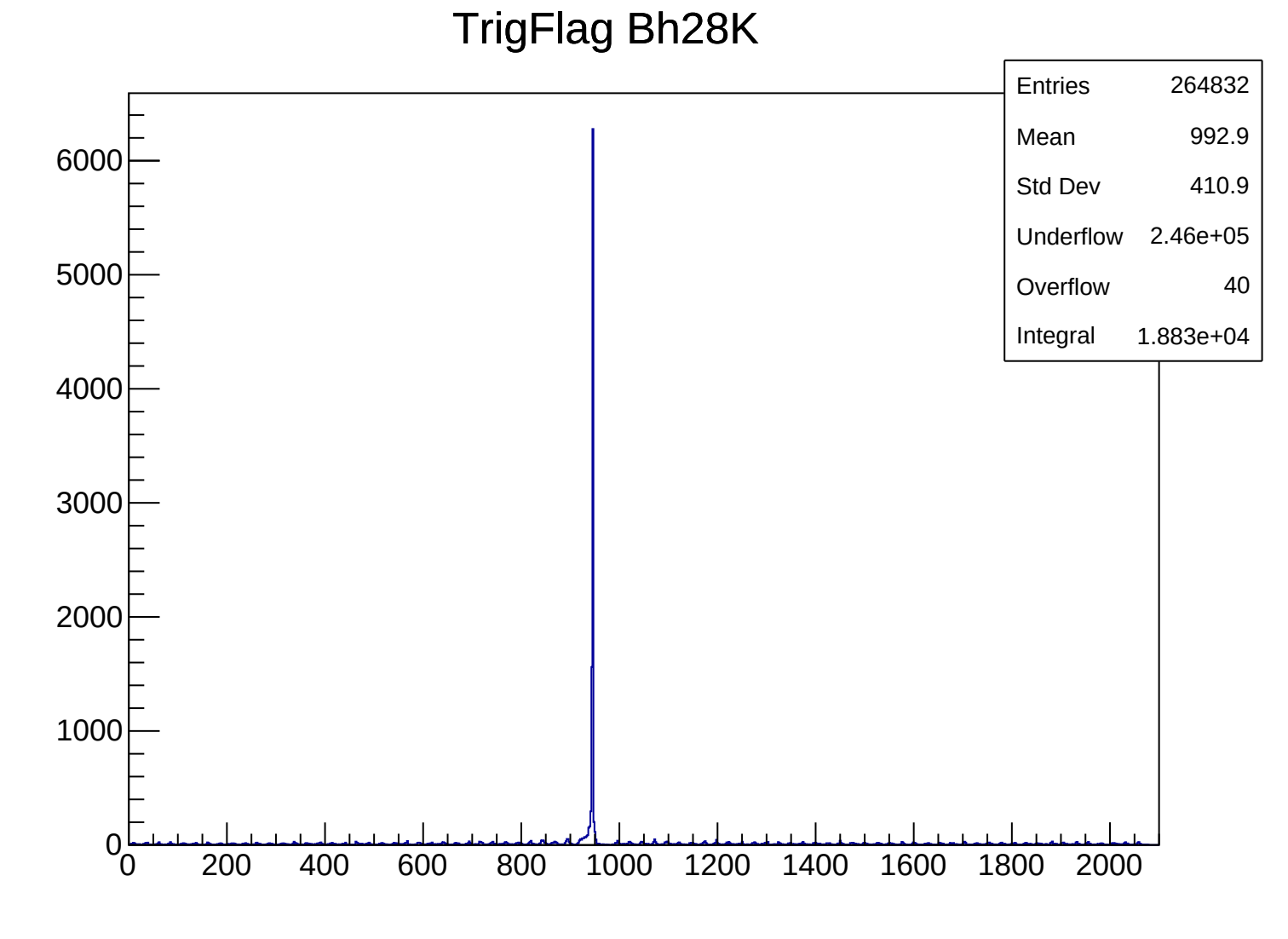
TrigFlag Bh28K
Entries 264832
Mean 992.9
Std Dev 410.9
Underflow 2.46e+05
Overflow 40
Integral 1.883e+04
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0
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600
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1600
1800
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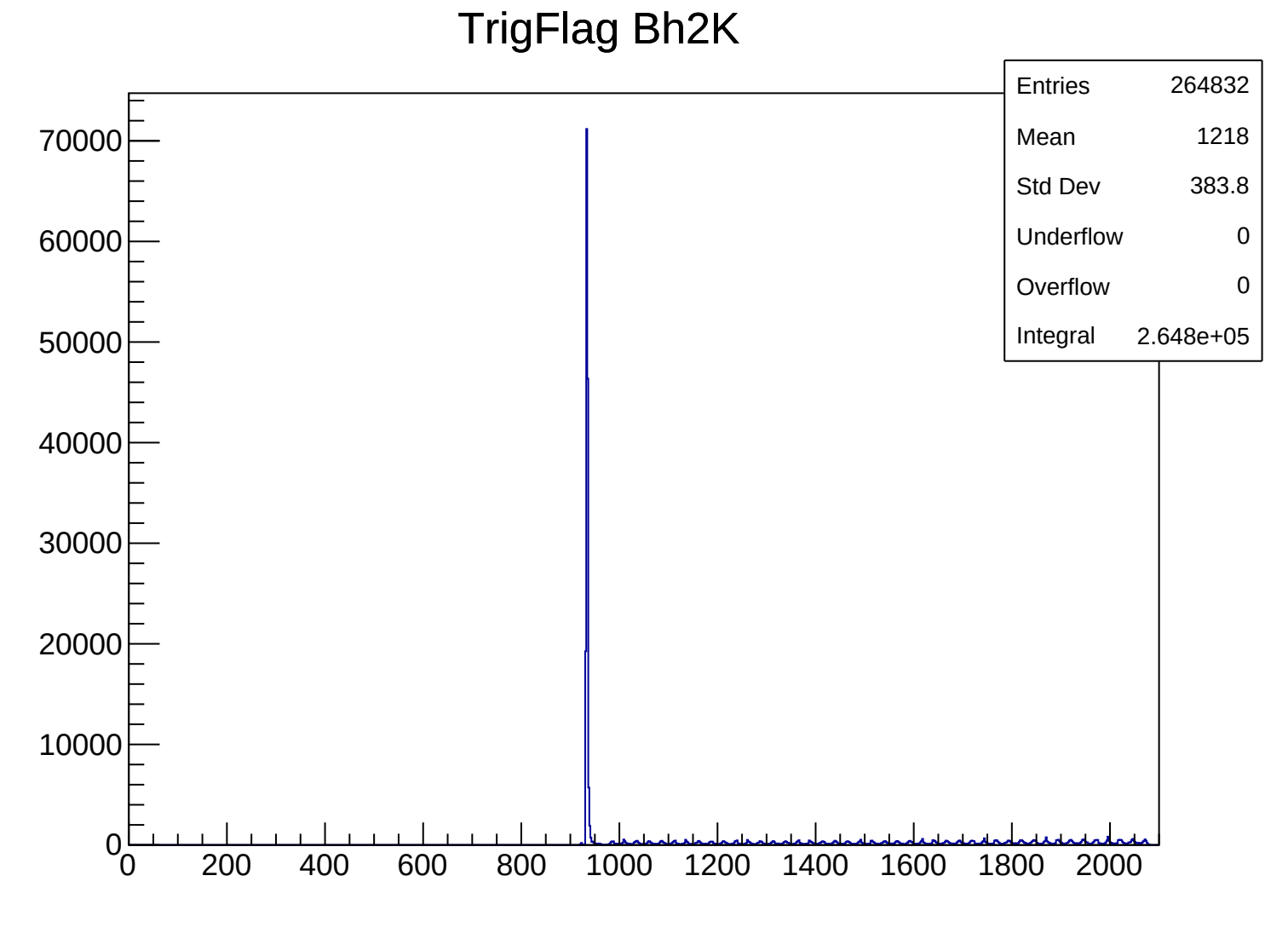
TrigFlag Bh2K
Entries 264832
Mean 1218
Std Dev 383.8
Underflow 0
Overflow 0
Integral 2.648e+05
70000
60000
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30000
20000
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0
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600
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1800
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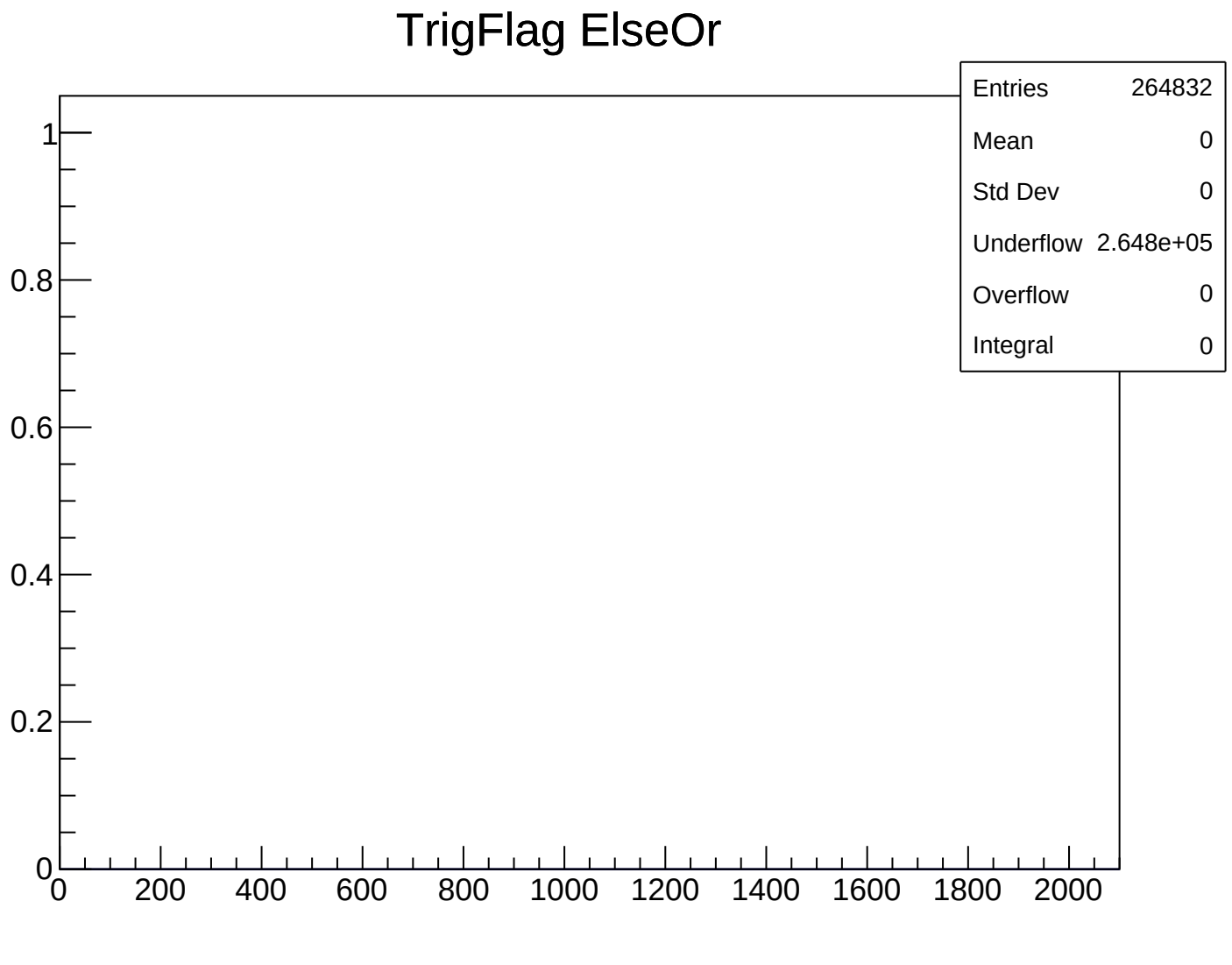
TrigFlag ElseOr
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.8
0.6
0.4
0.2
0
0
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600
800
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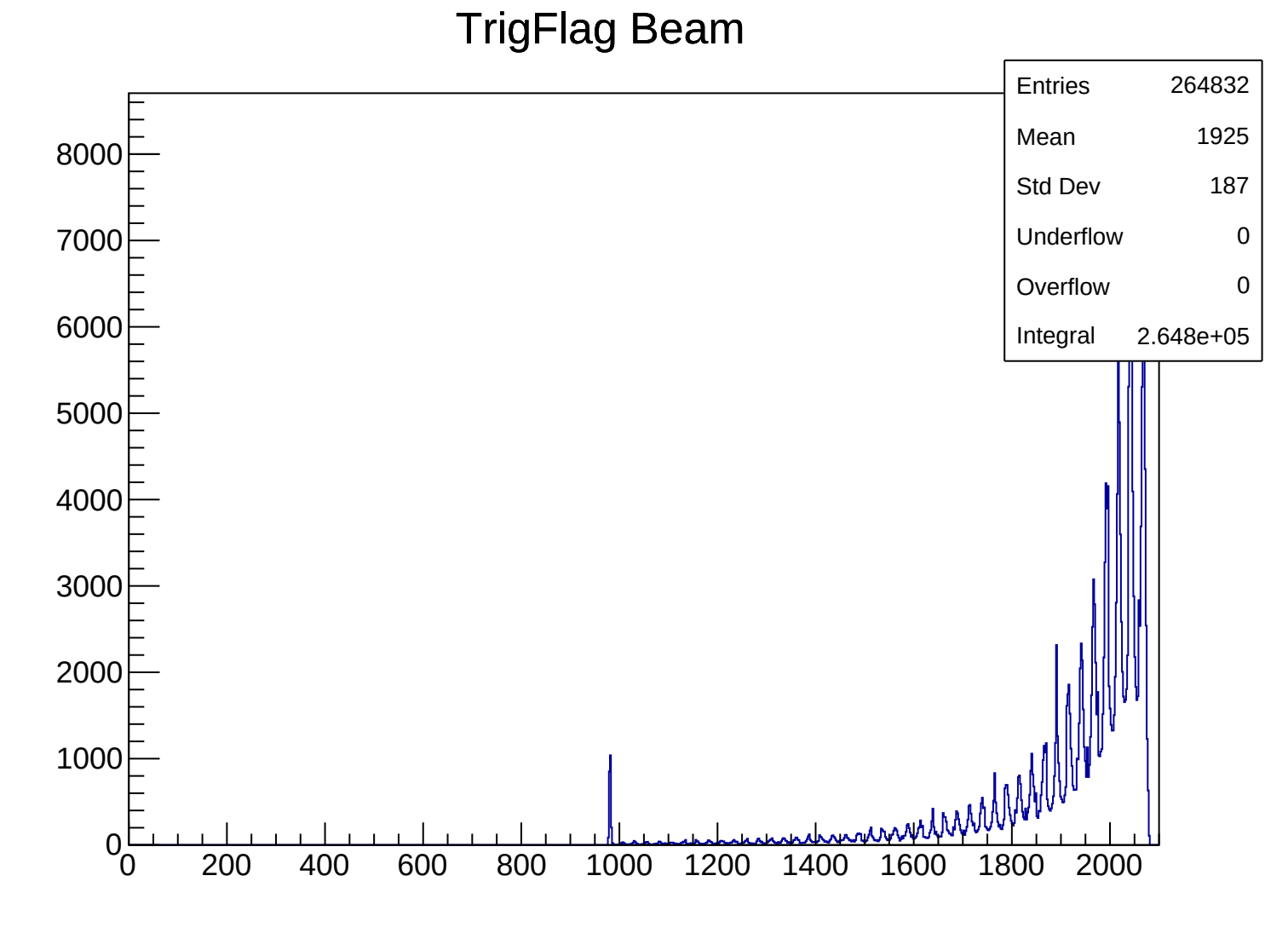
TrigFlag Beam
Entries 264832
Mean 1925
Std Dev 187
Underflow 0
Overflow 0
Integral 2.648e+05
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4000
3000
2000
1000
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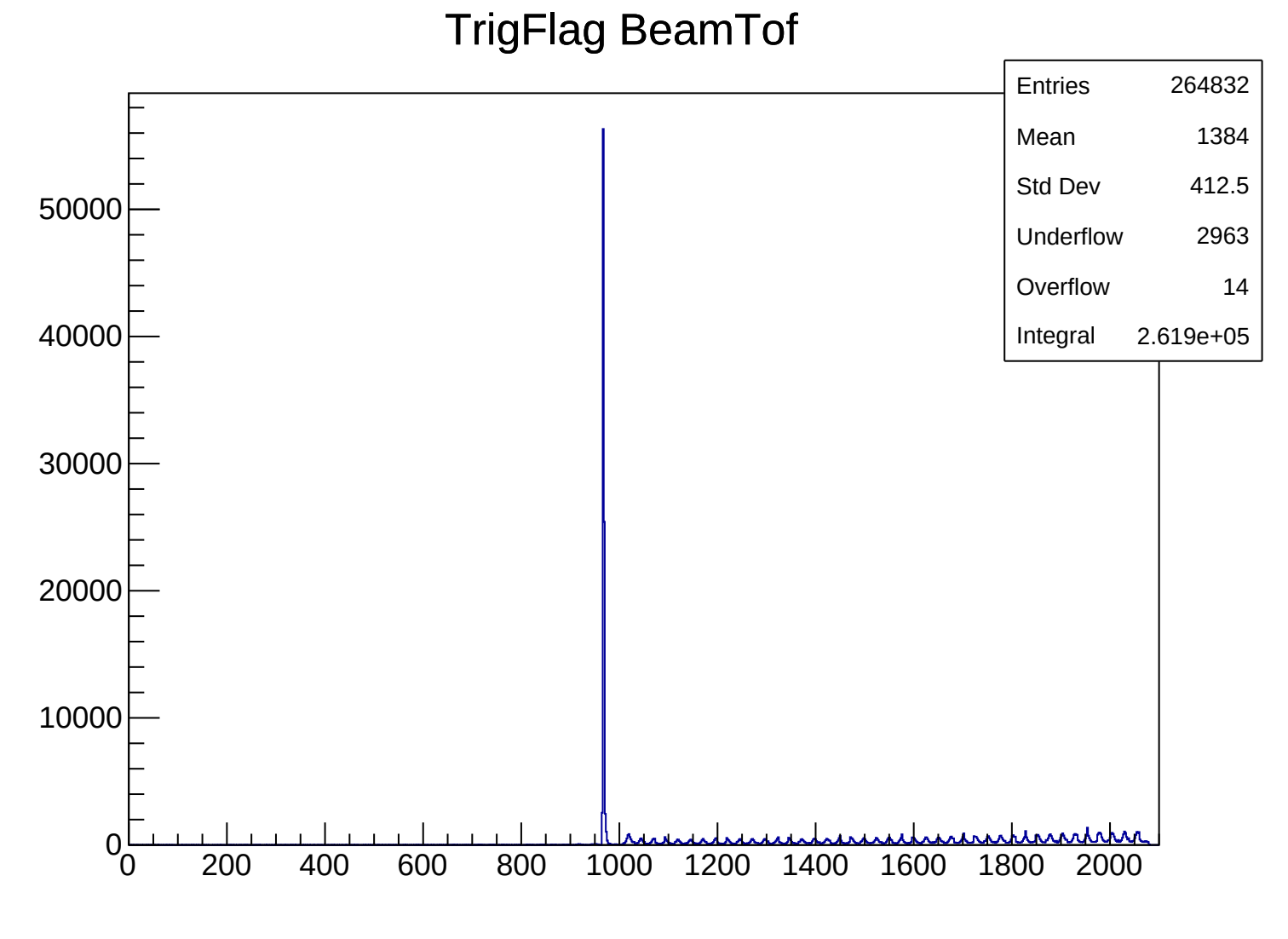
TrigFlag BeamTof
Entries 264832
Mean 1384
Std Dev 412.5
Underflow 2963
Overflow 14
Integral 2.619e+05
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20000
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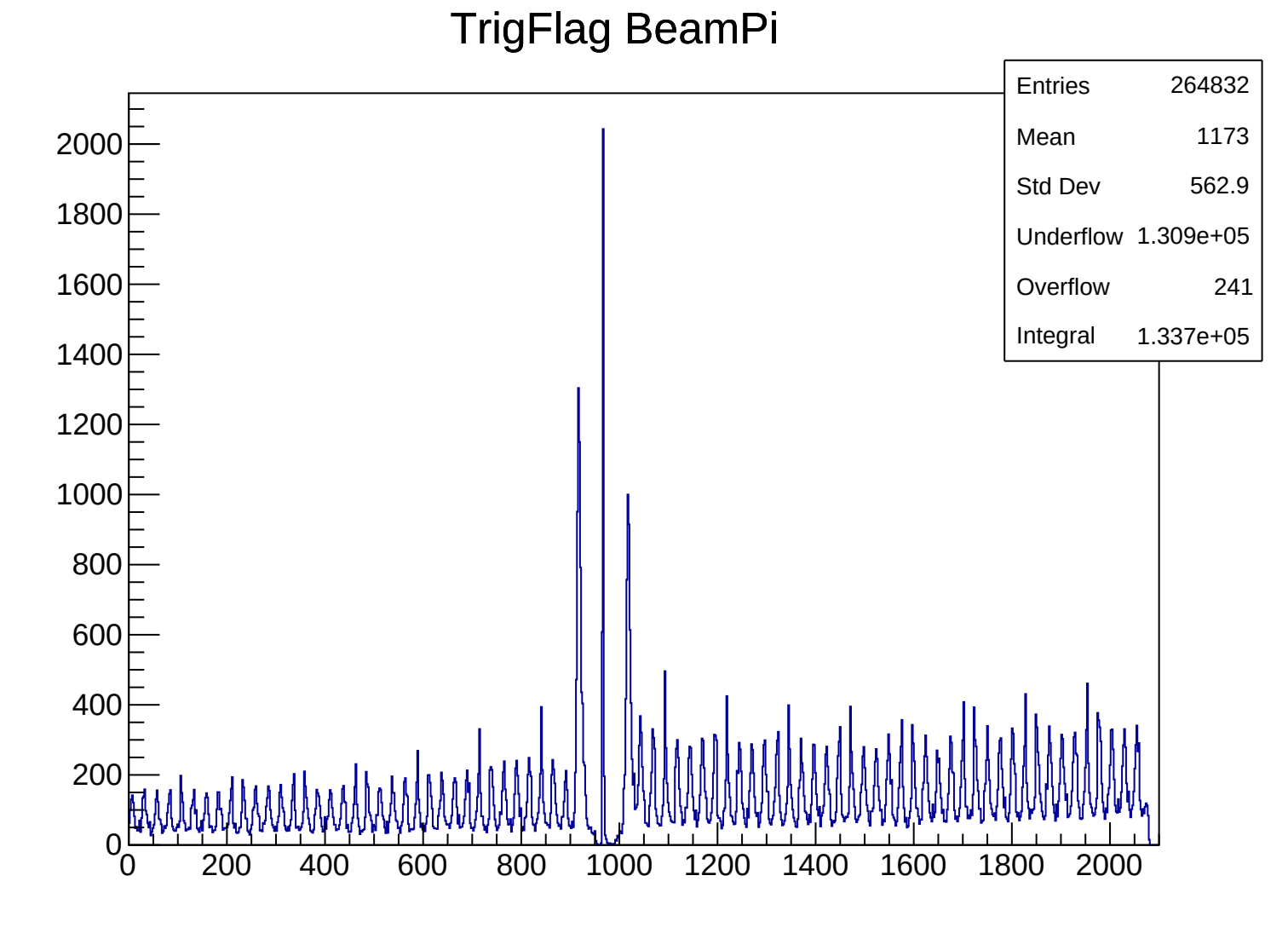
TrigFlag BeamPi
Entries 264832
Mean 1173
Std Dev 562.9
Underflow 1.309e+05
Overflow 241
Integral 1.337e+05
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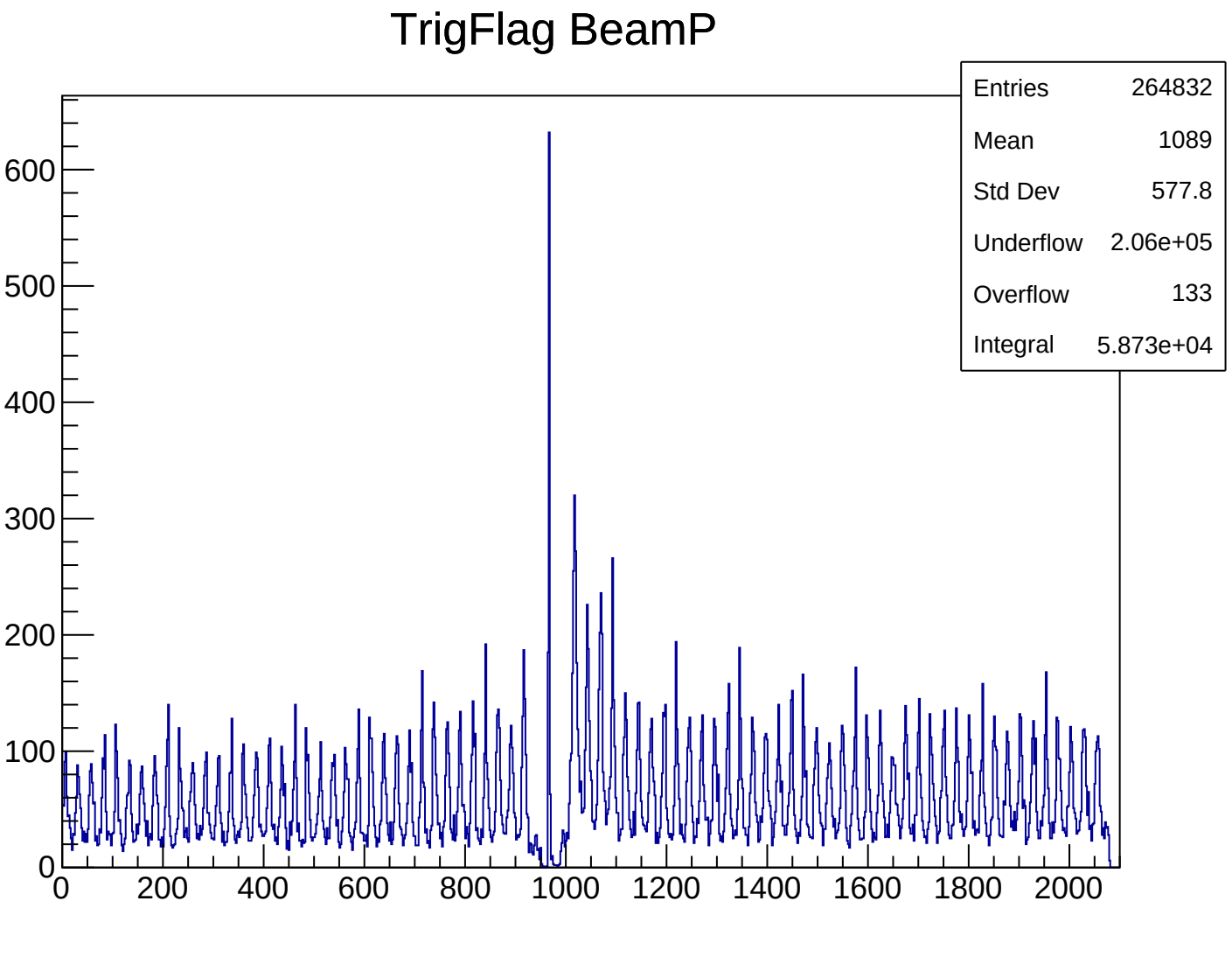
TrigFlag BeamP
Entries 264832
Mean 1089
Std Dev 577.8
Underflow 2.06e+05
Overflow 133
Integral 5.873e+04
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300
400
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600
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600
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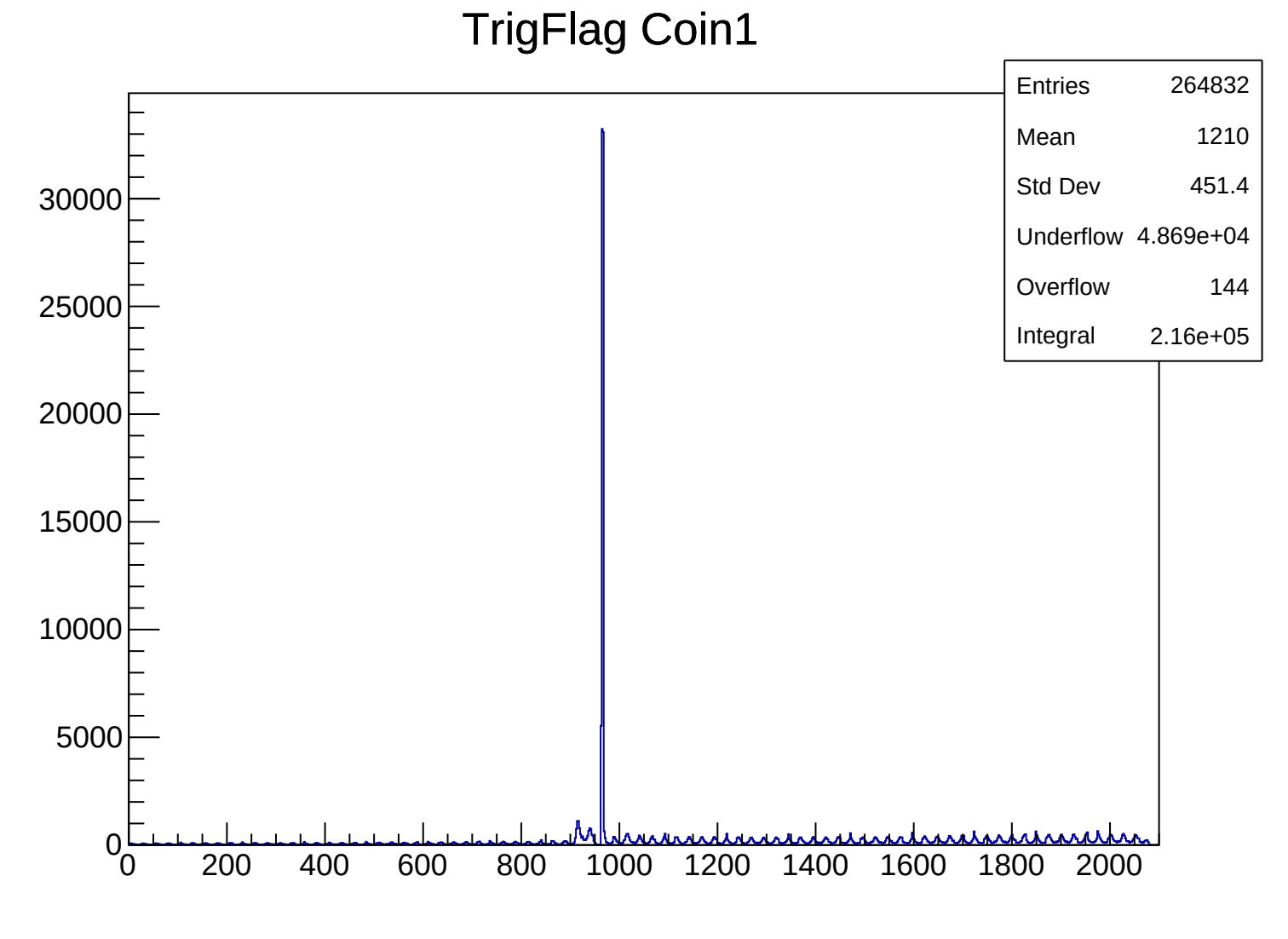
TrigFlag Coin1
Entries 264832
Mean 1210
Std Dev 451.4
Underflow 4.869e+04
Overflow 144
Integral 2.16e+05
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15000
10000
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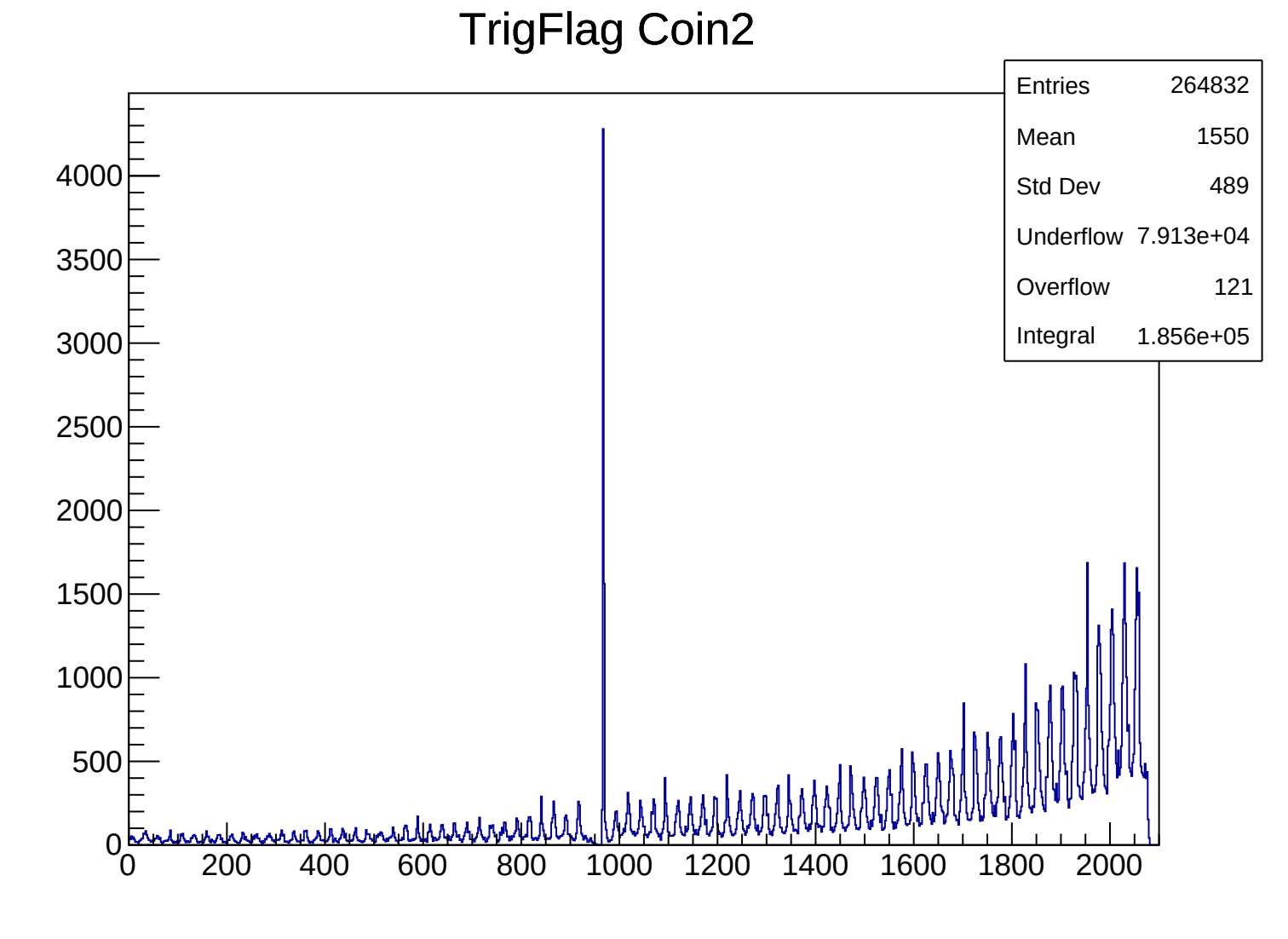
TrigFlag Coin2
Entries 264832
Mean 1550
Std Dev 489
Underflow 7.913e+04
Overflow 121
Integral 1.856e+05
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2000
1500
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0
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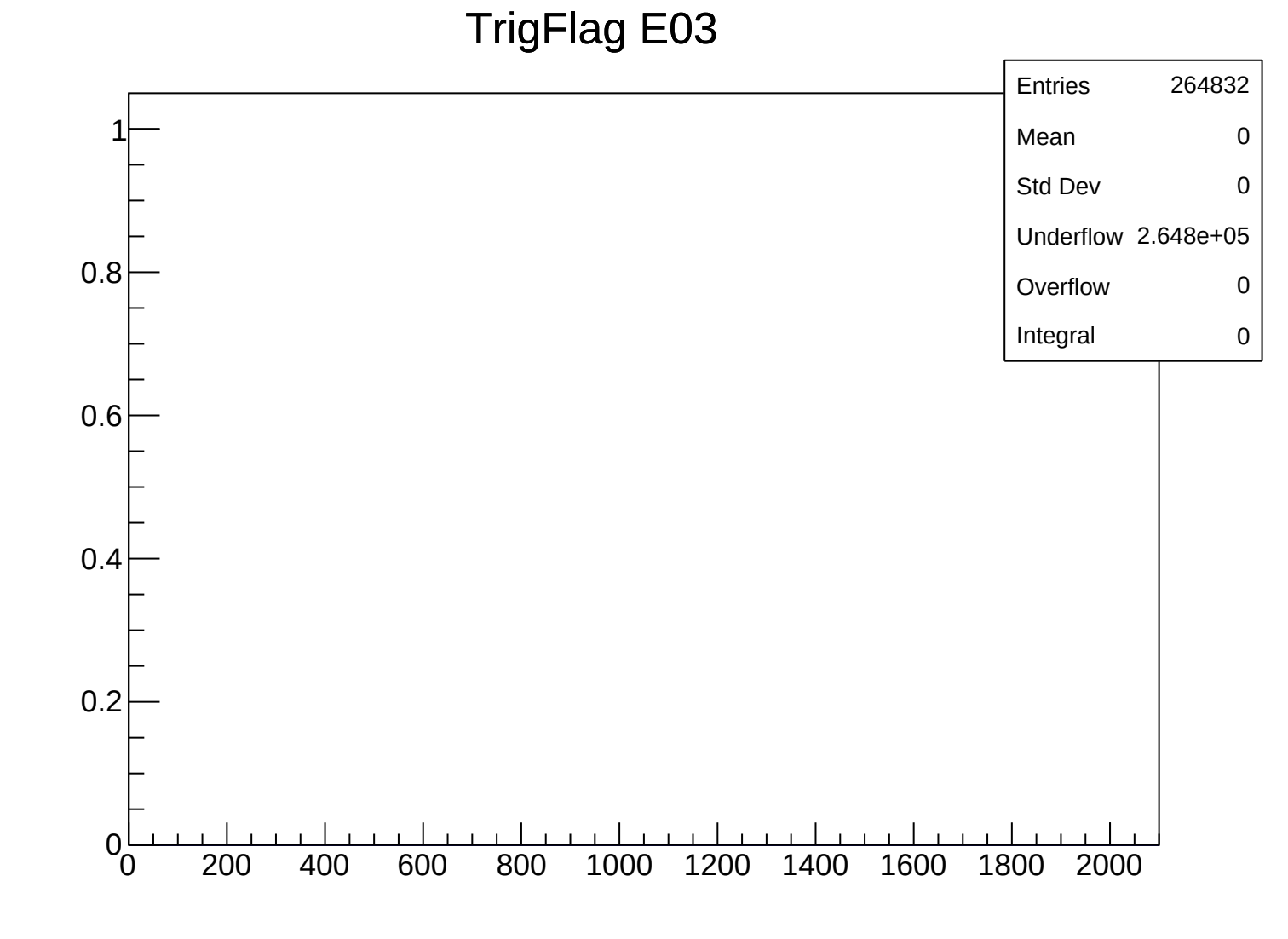
TrigFlag E03
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
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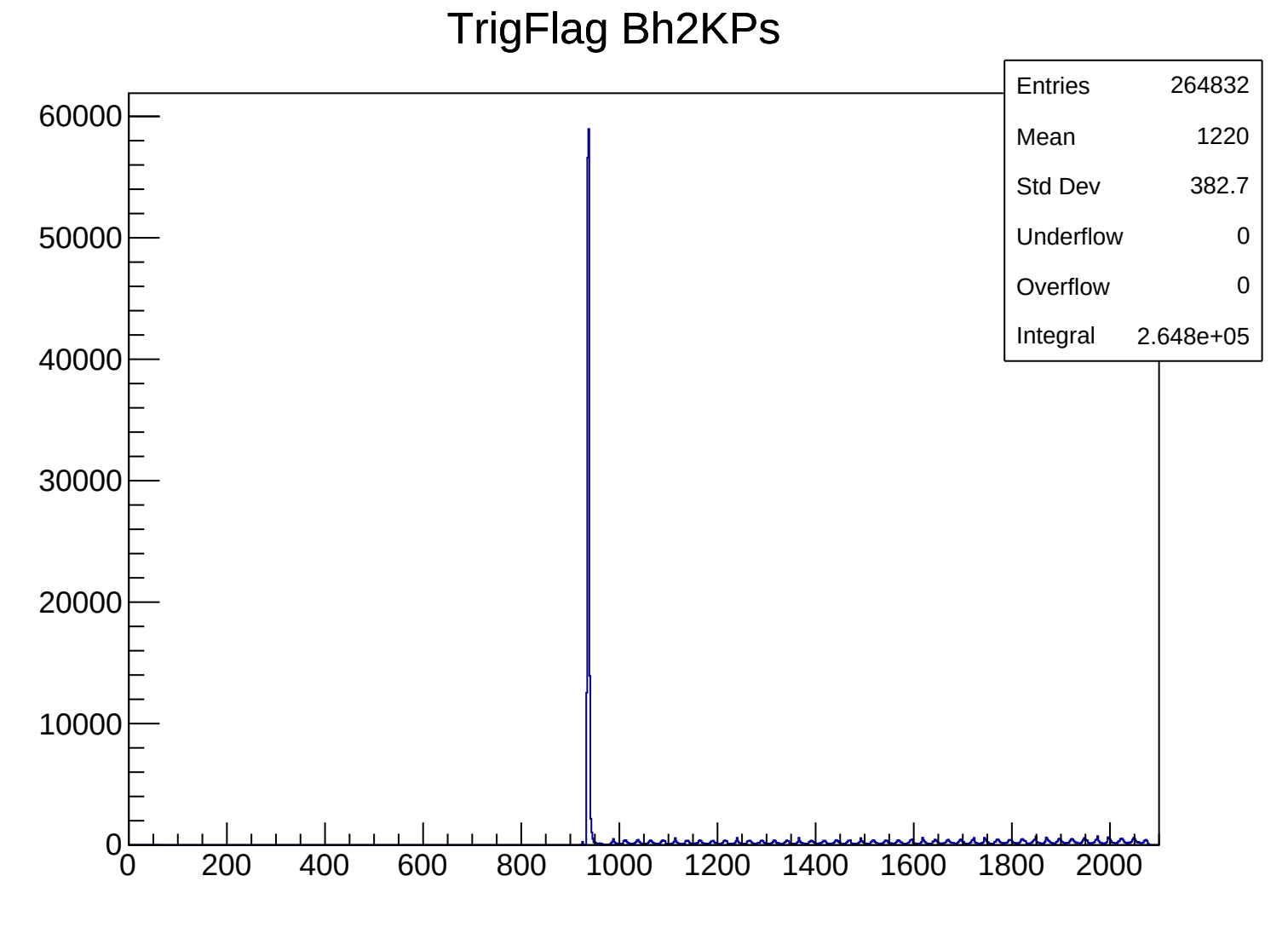
TrigFlag Bh2KPs
Entries 264832
Mean 1220
Std Dev 382.7
Underflow 0
Overflow 0
Integral 2.648e+05
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30000
20000
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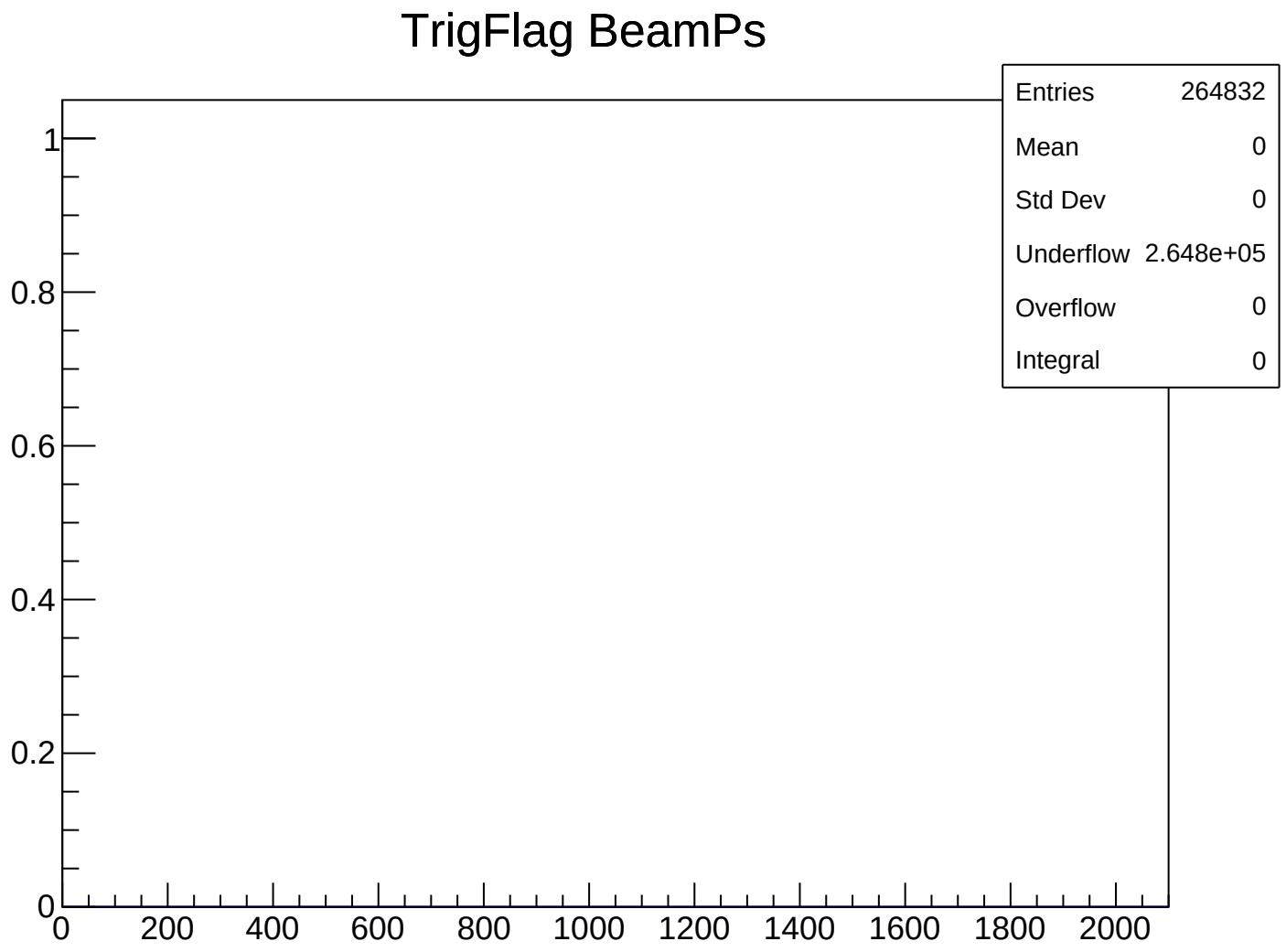
TrigFlag BeamPs
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
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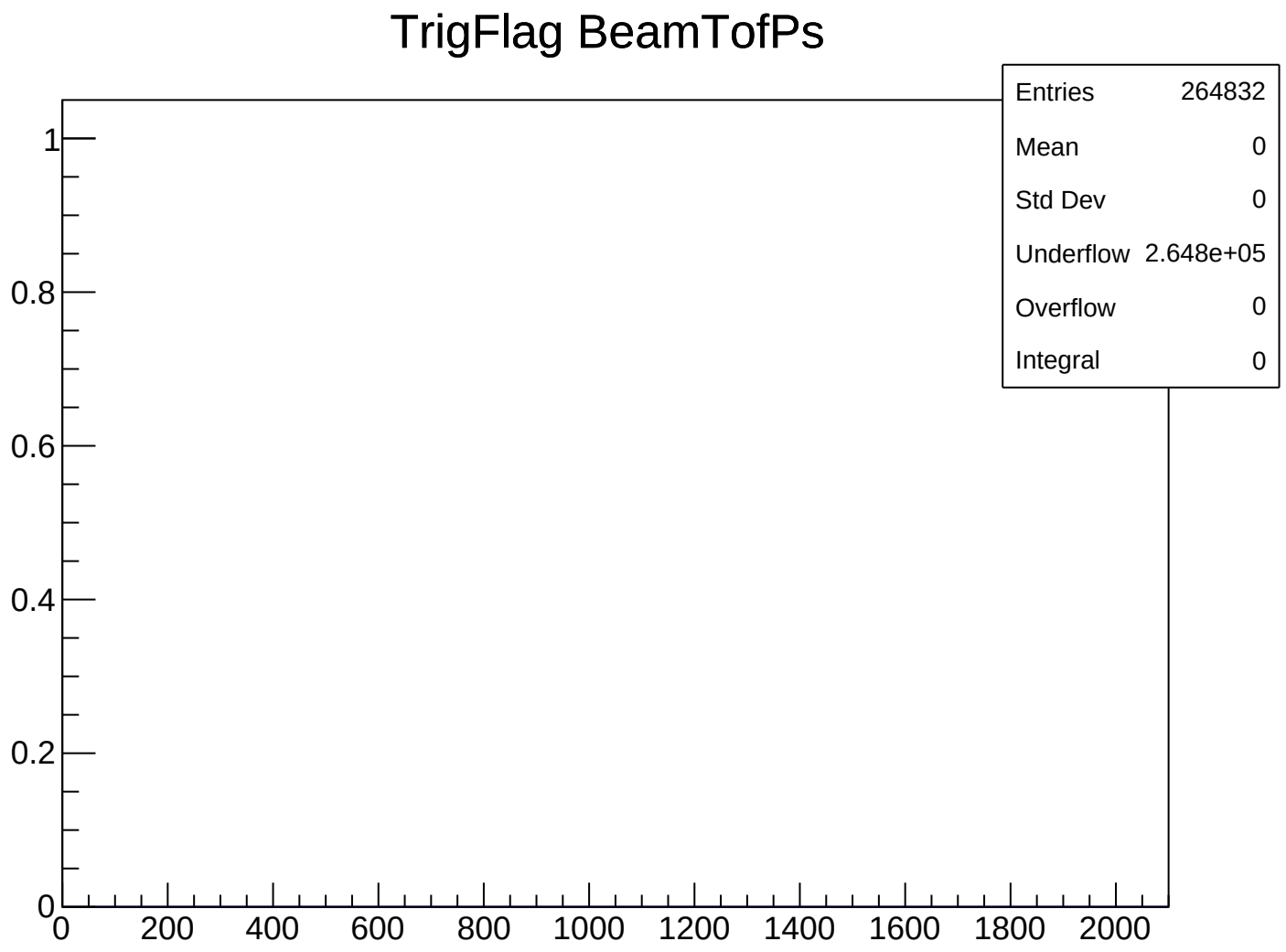
TrigFlag BeamTofPs
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
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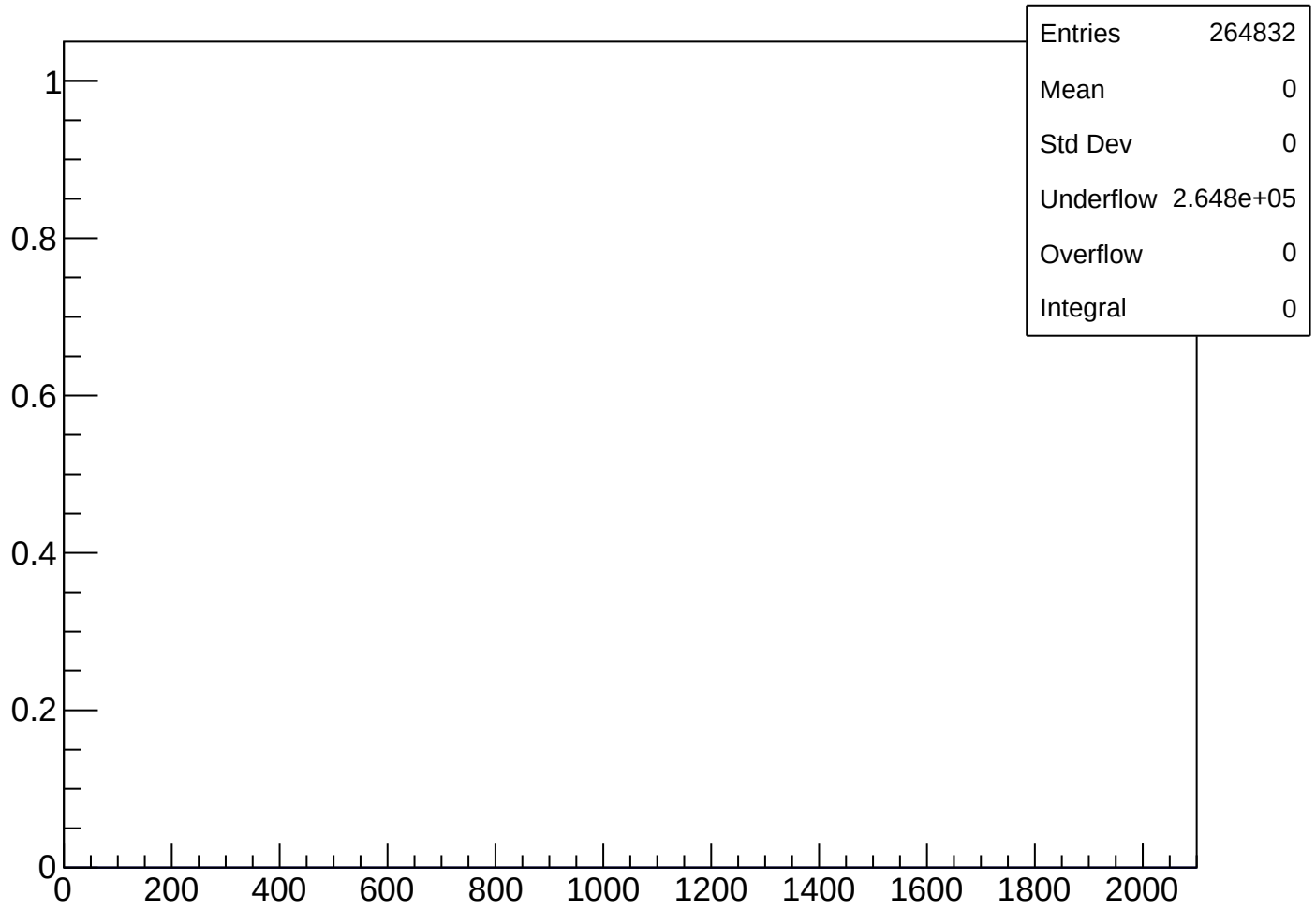
TrigFlag BeamPiPs
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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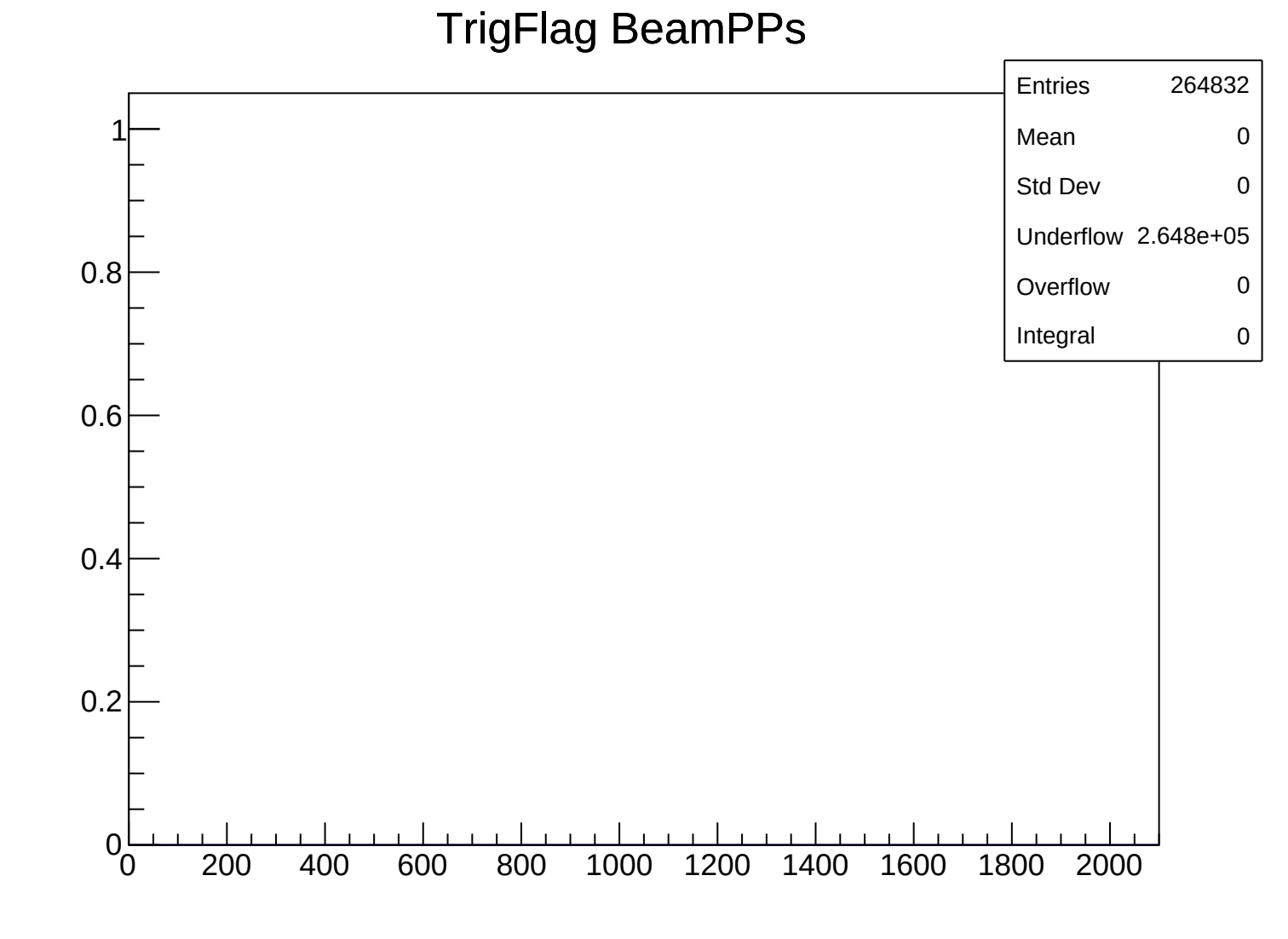
TrigFlag BeamPPs
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
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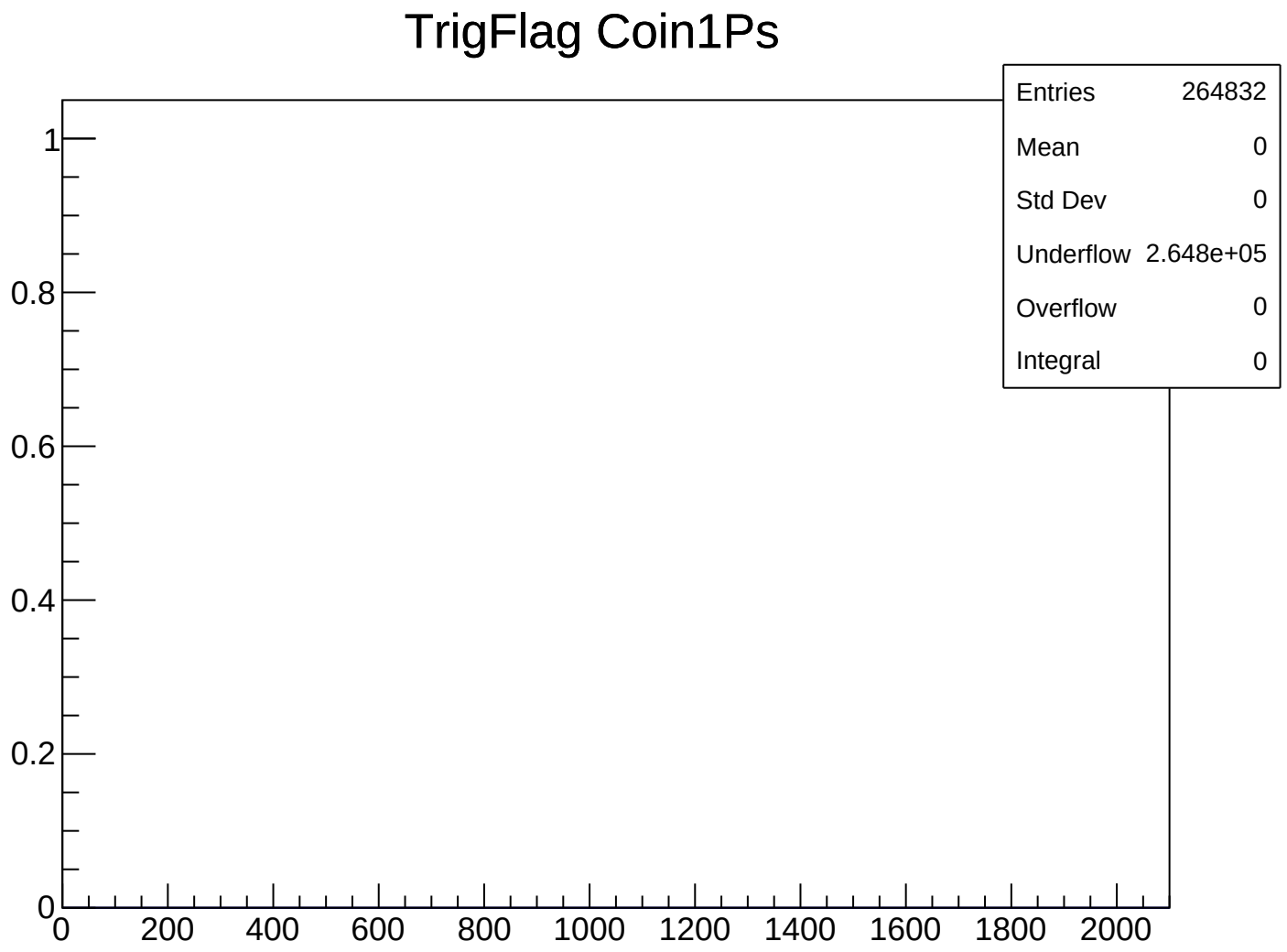
TrigFlag Coin1Ps
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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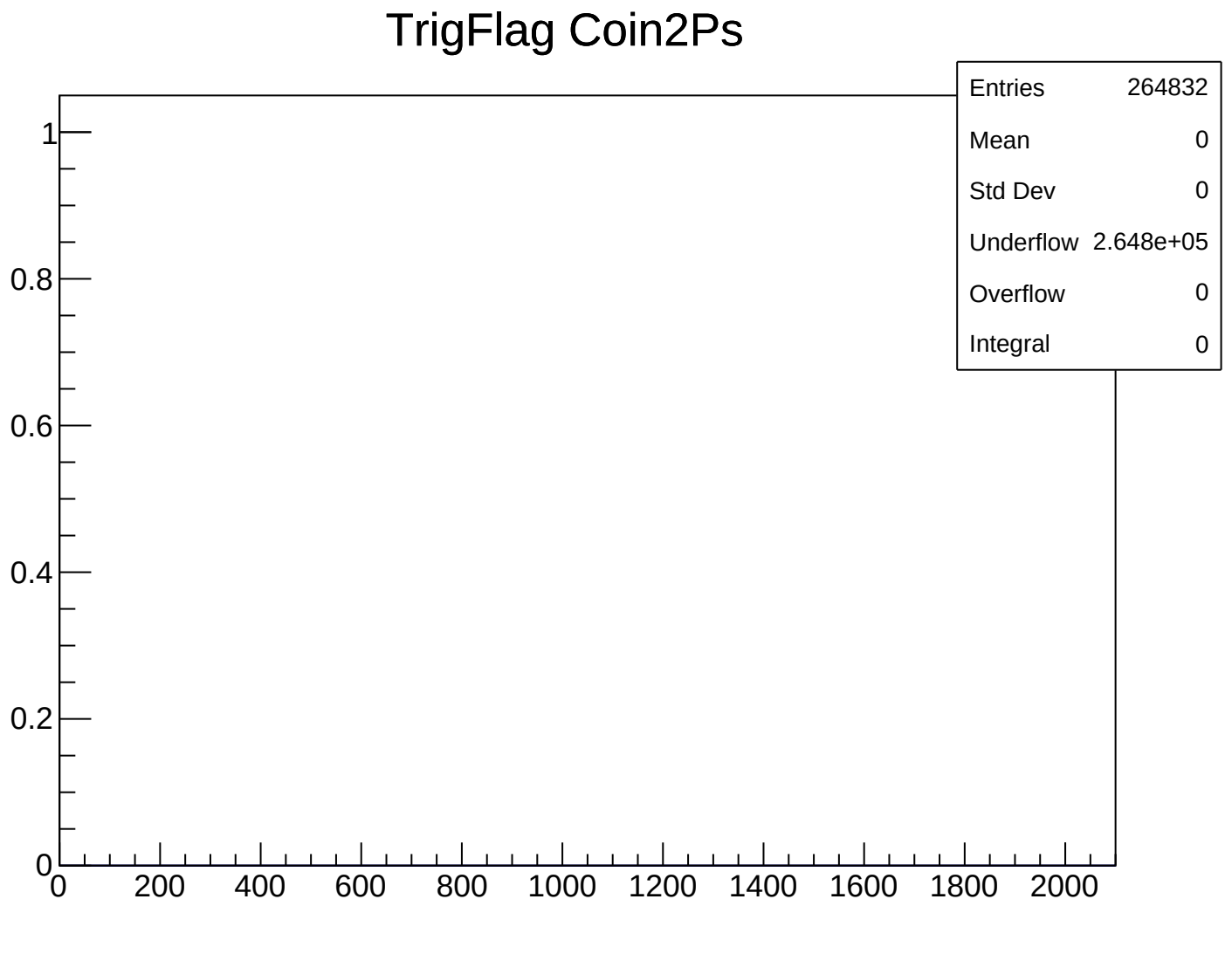
TrigFlag Coin2Ps
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.6
0.4
0.2
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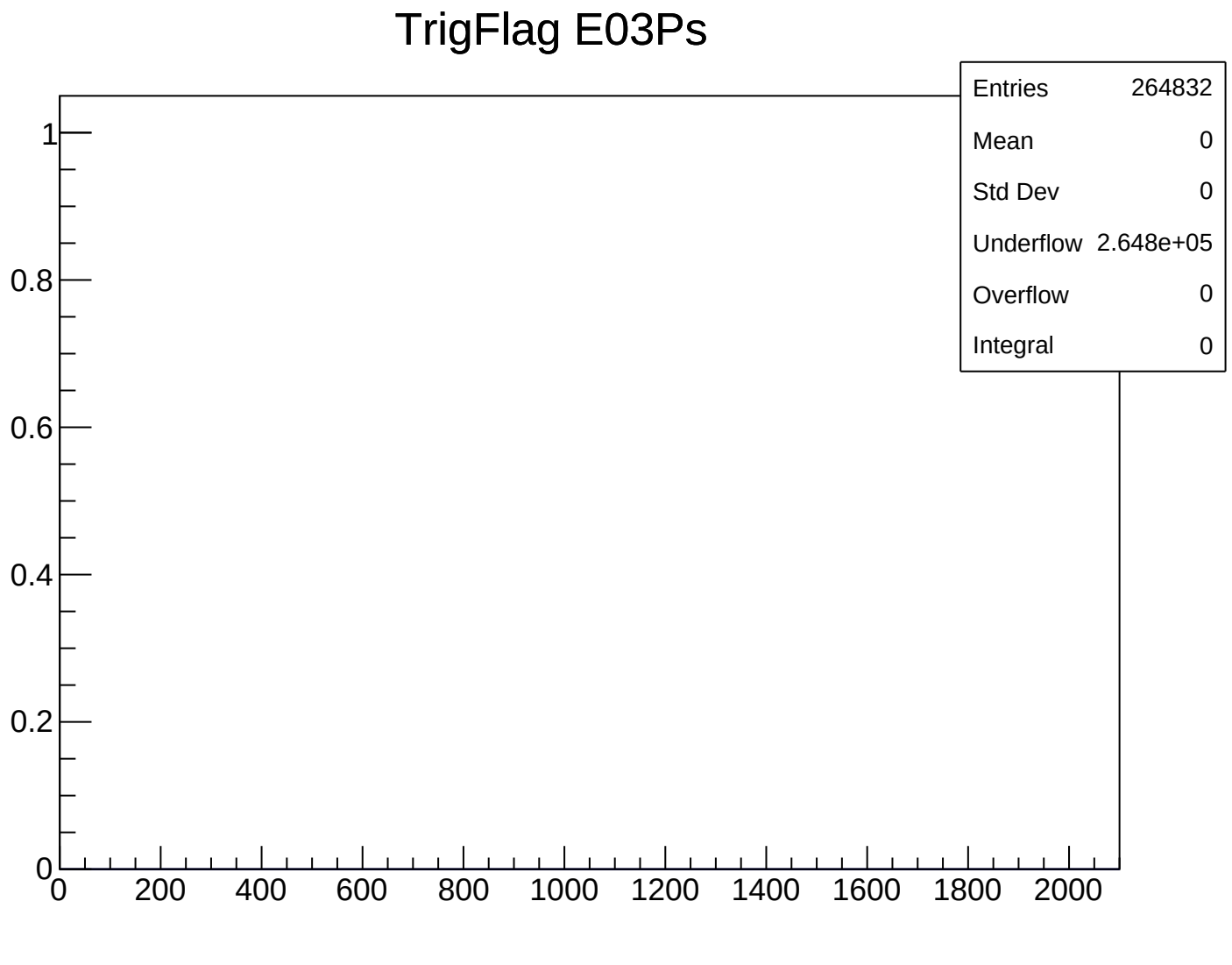
0 200 400 600 800 1000 1200 1400 1600 1800 2000


TrigFlag E03Ps
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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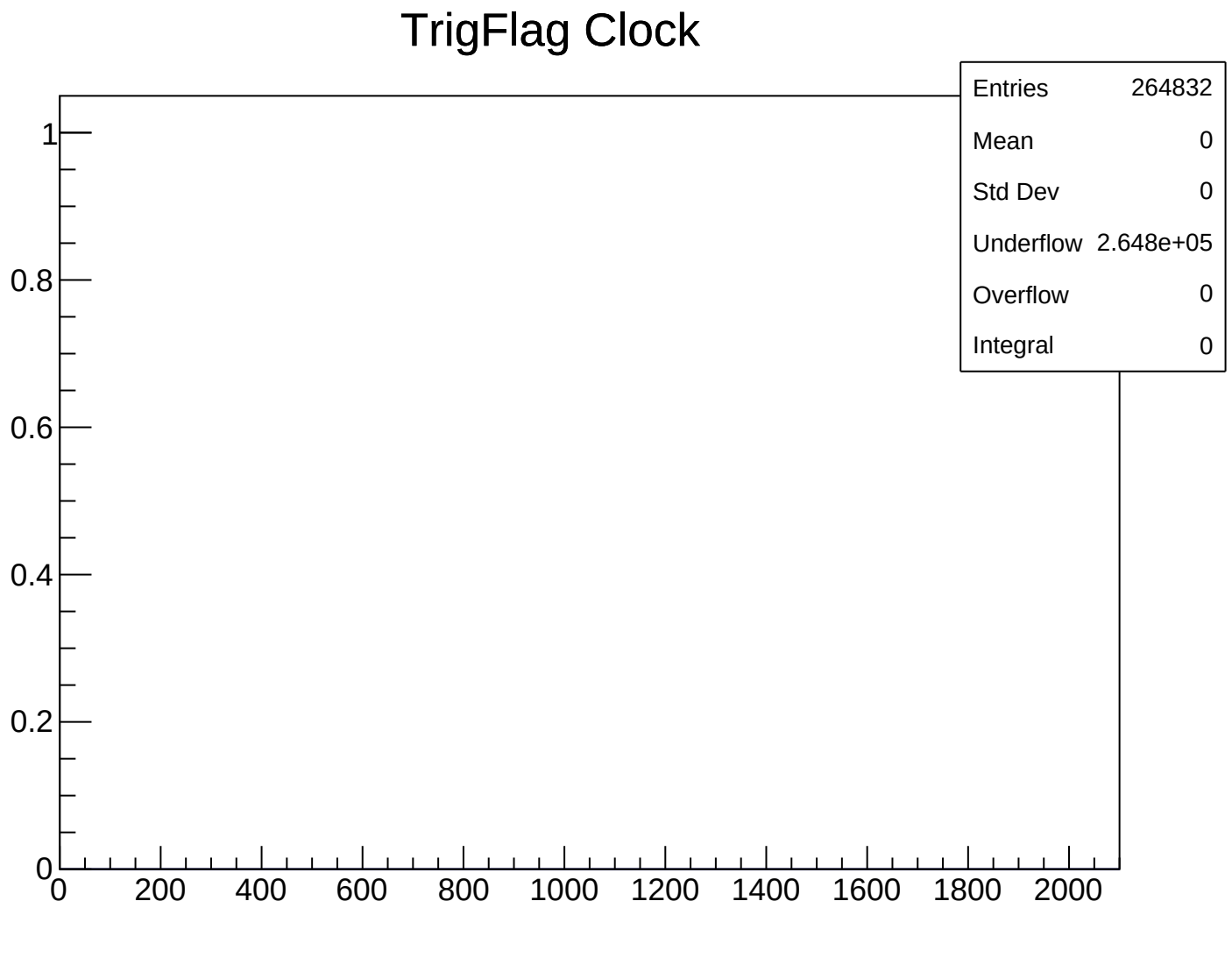
TrigFlag Clock
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
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600
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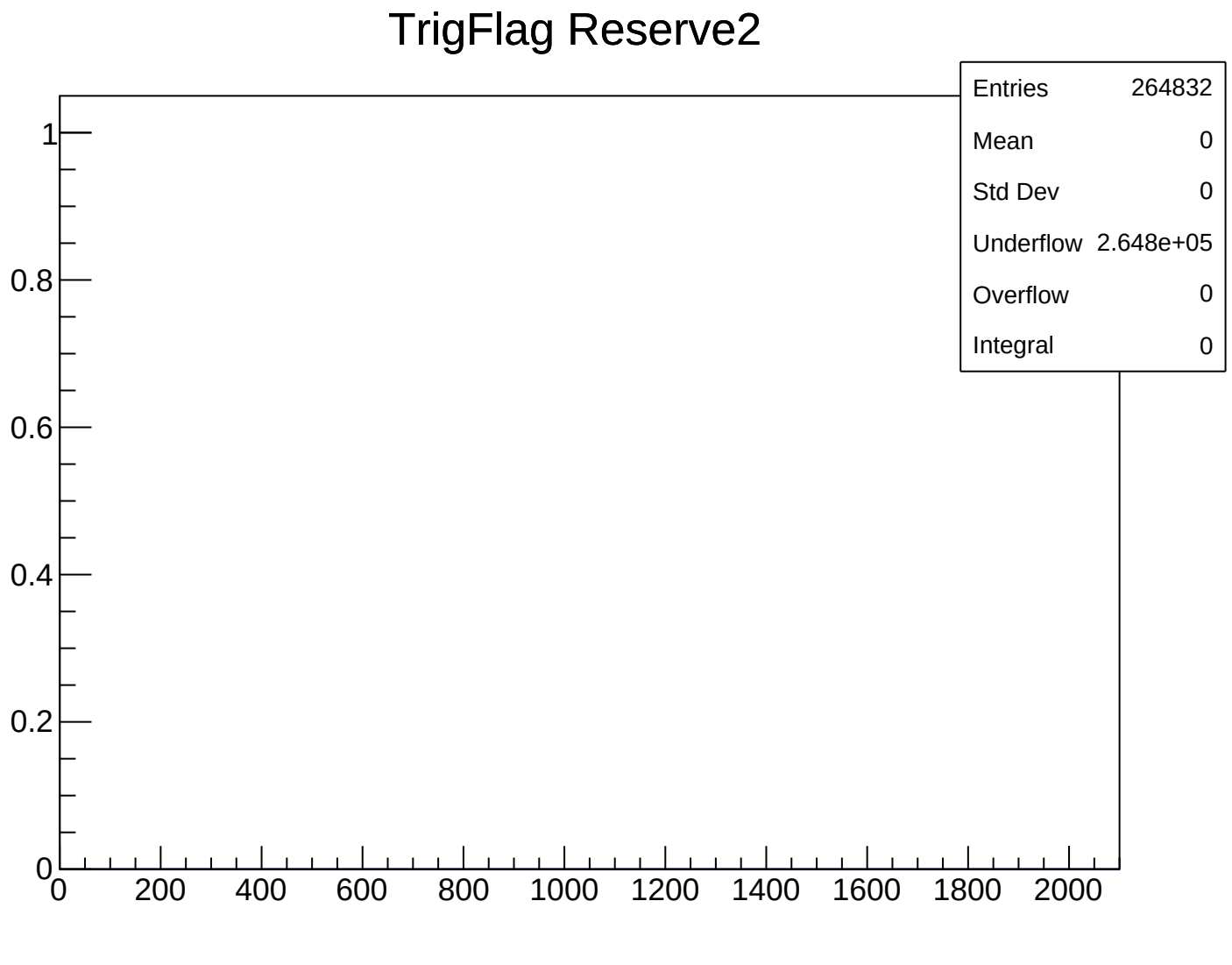
TrigFlag Reserve2
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
0
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200
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600
800
1000
1200
1400
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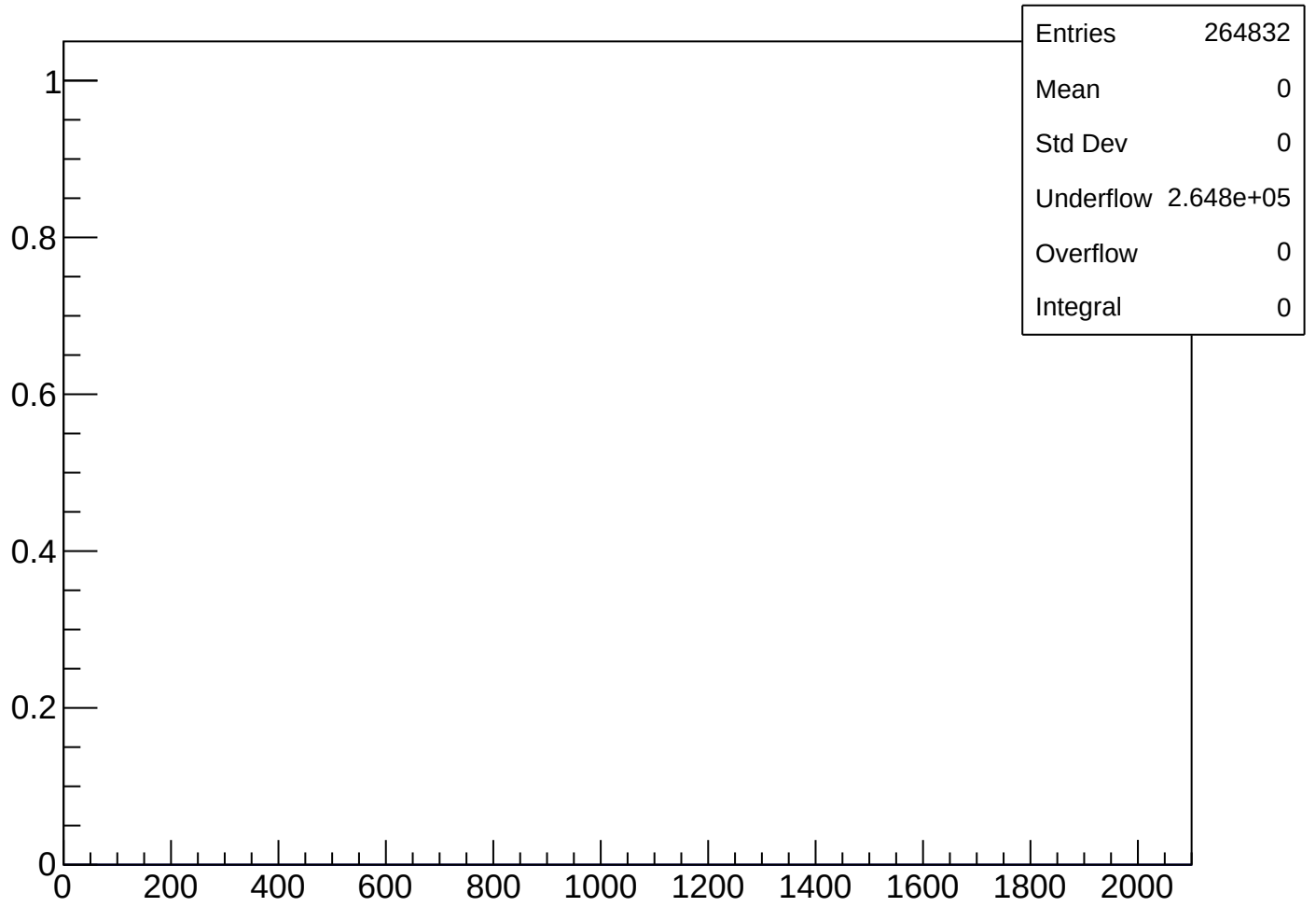
TrigFlag SpillEnd
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
0
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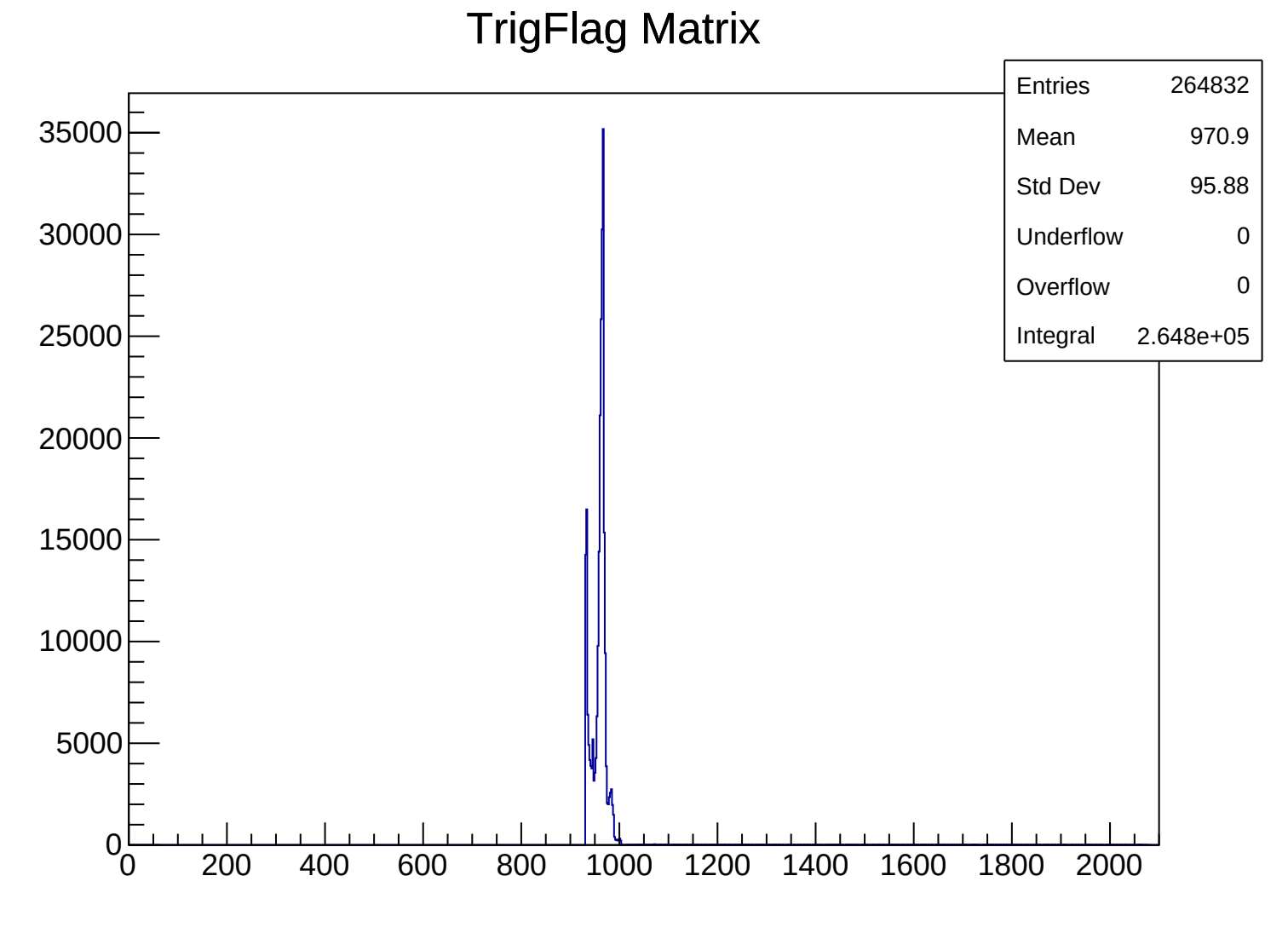
TrigFlag Matrix
Entries 264832
Mean 970.9
Std Dev 95.88
Underflow 0
Overflow 0
Integral 2.648e+05
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15000
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0
0
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600
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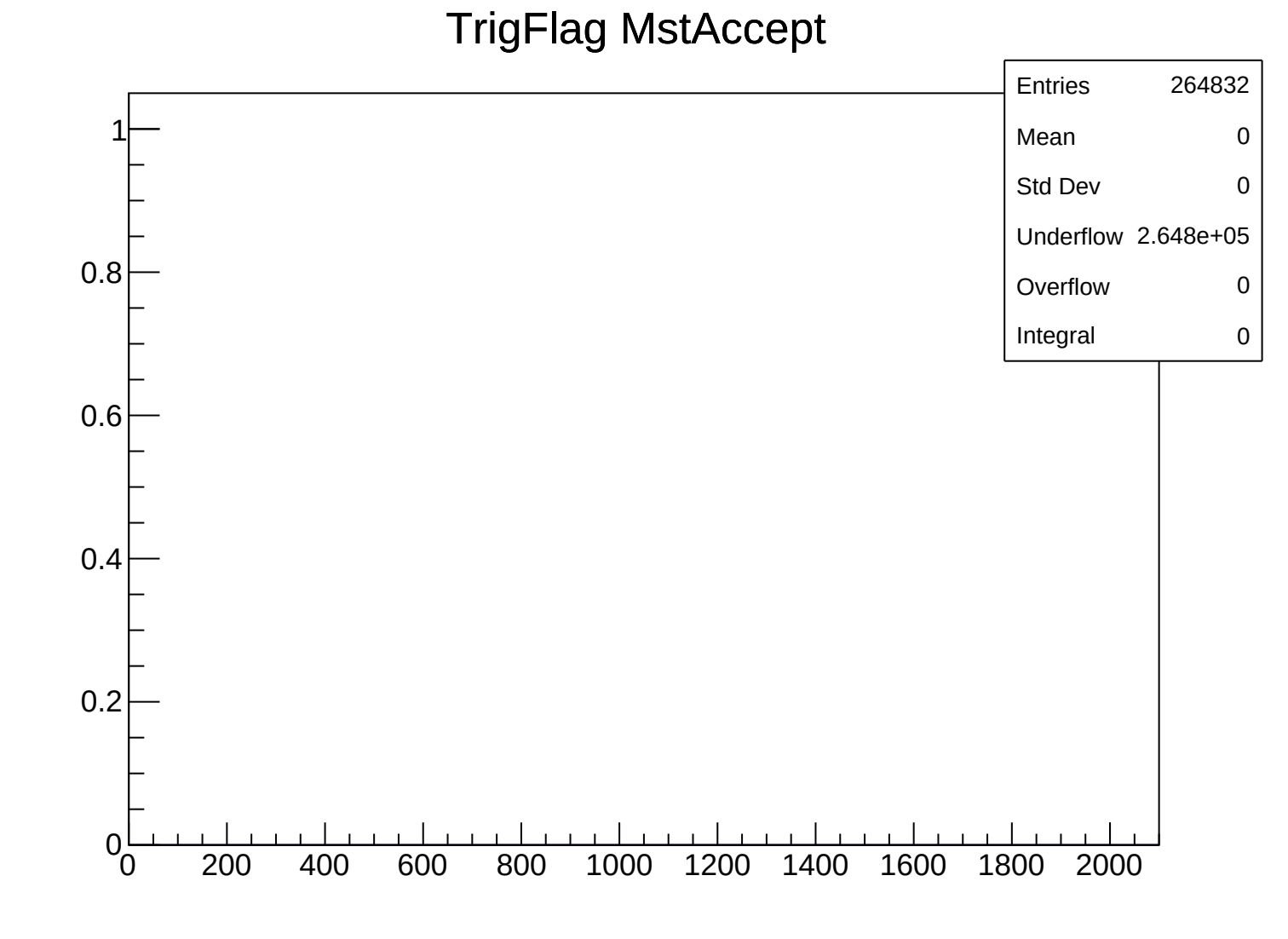
TrigFlag MstAccept
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
0
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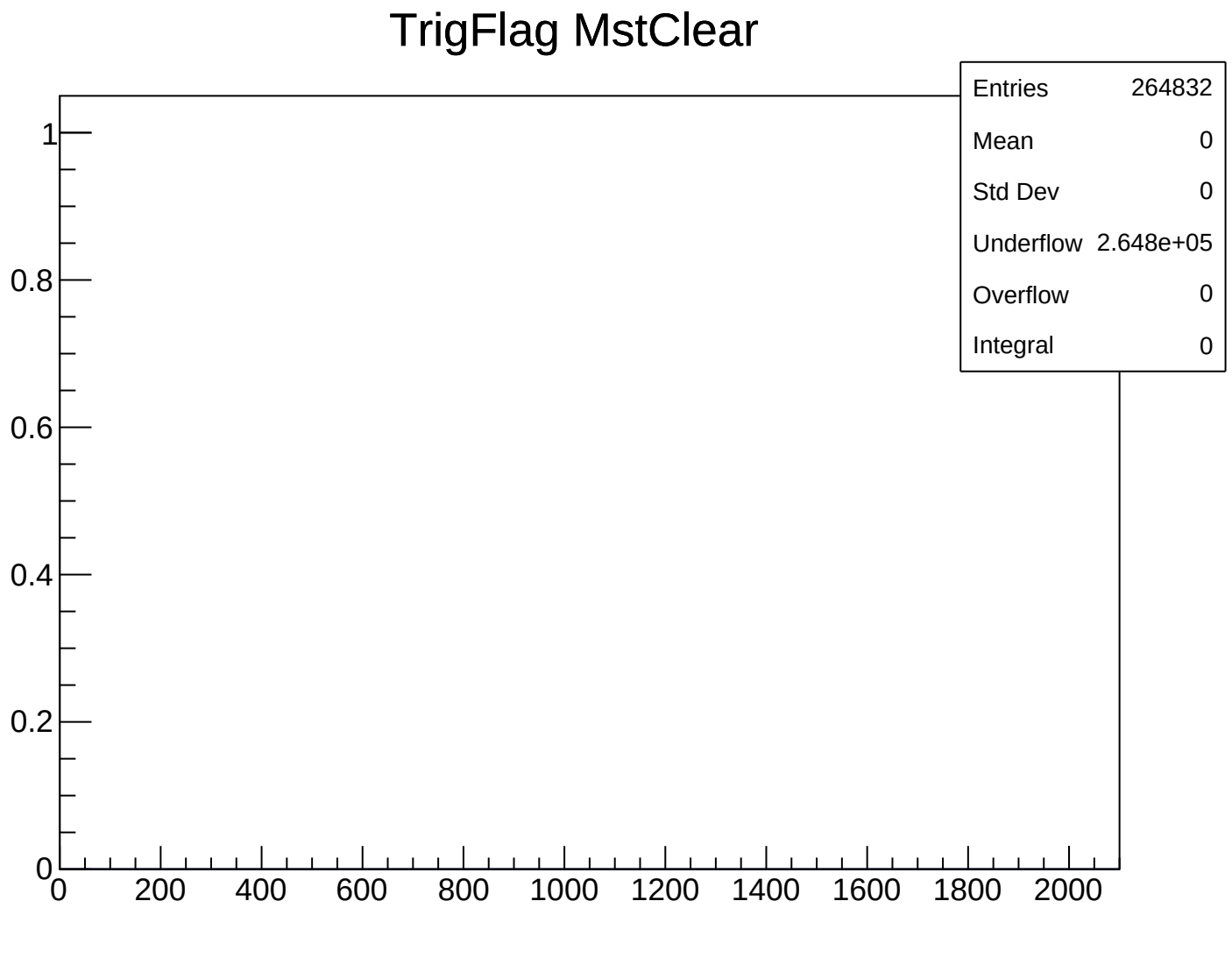
TrigFlag MstClear
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
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0.4
0.2
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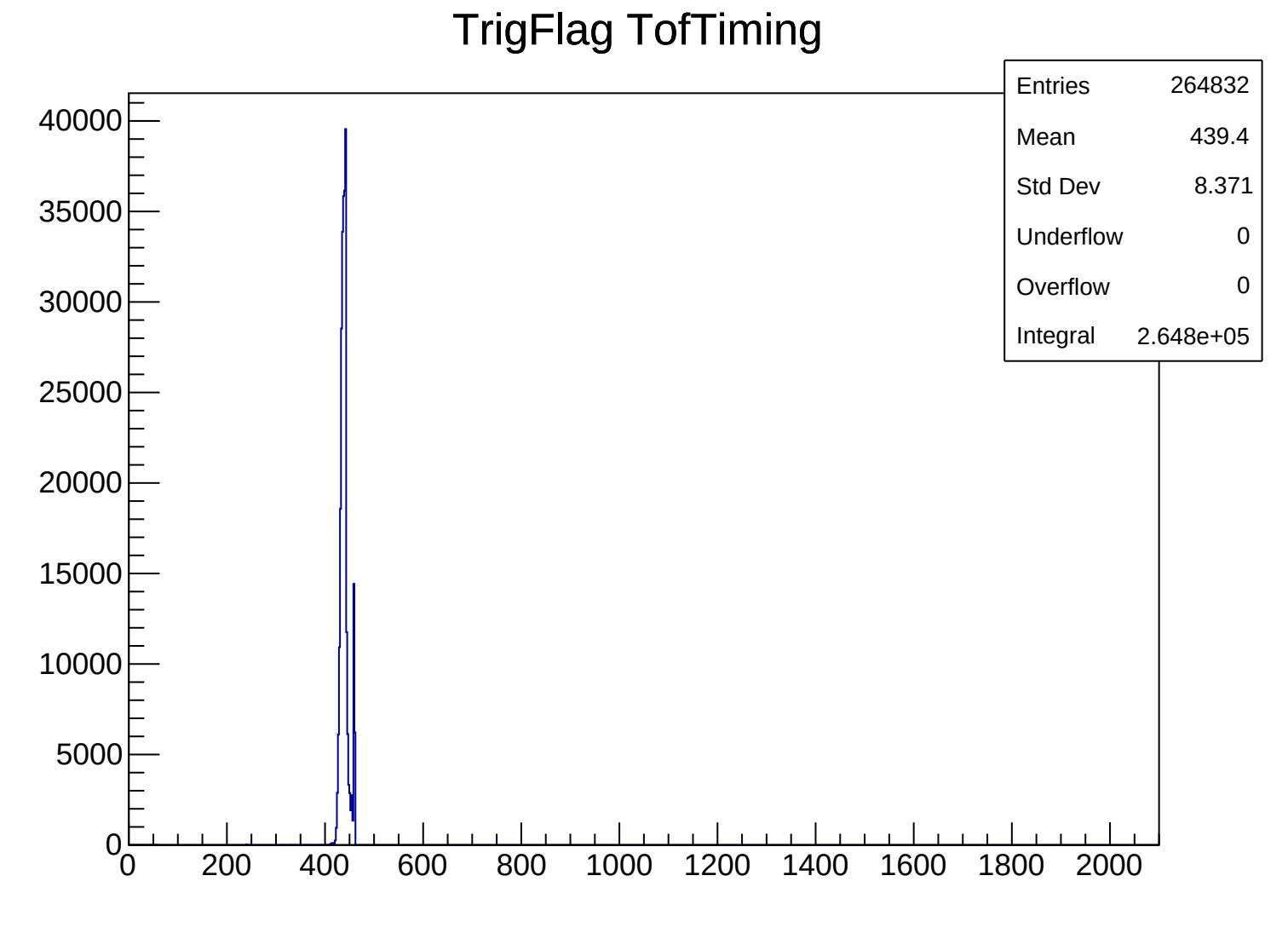
TrigFlag TofTiming
Entries 264832
Mean 439.4
Std Dev 8.371
Underflow 0
Overflow 0
Integral 2.648e+05
40000
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20000
15000
10000
5000
0
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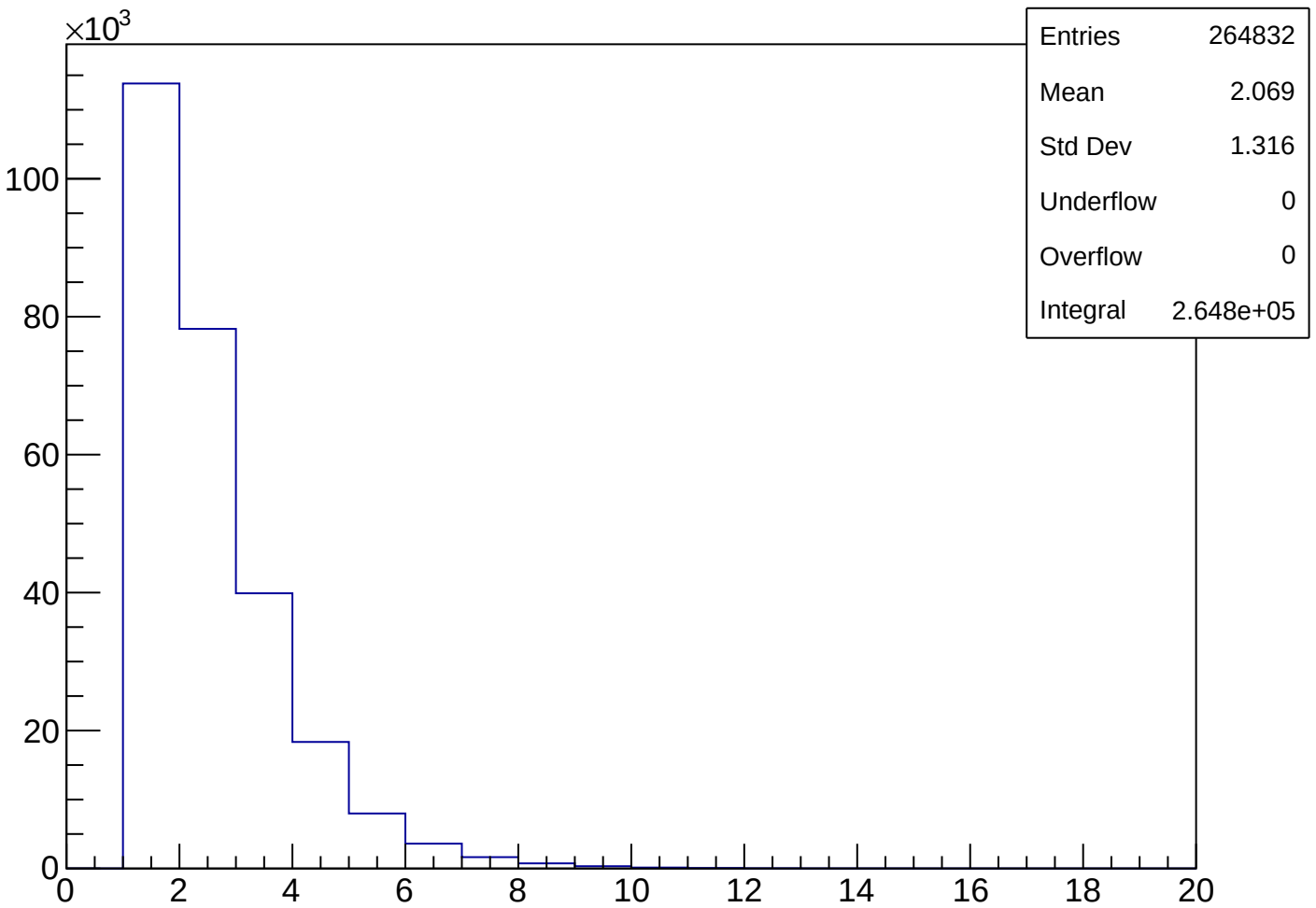
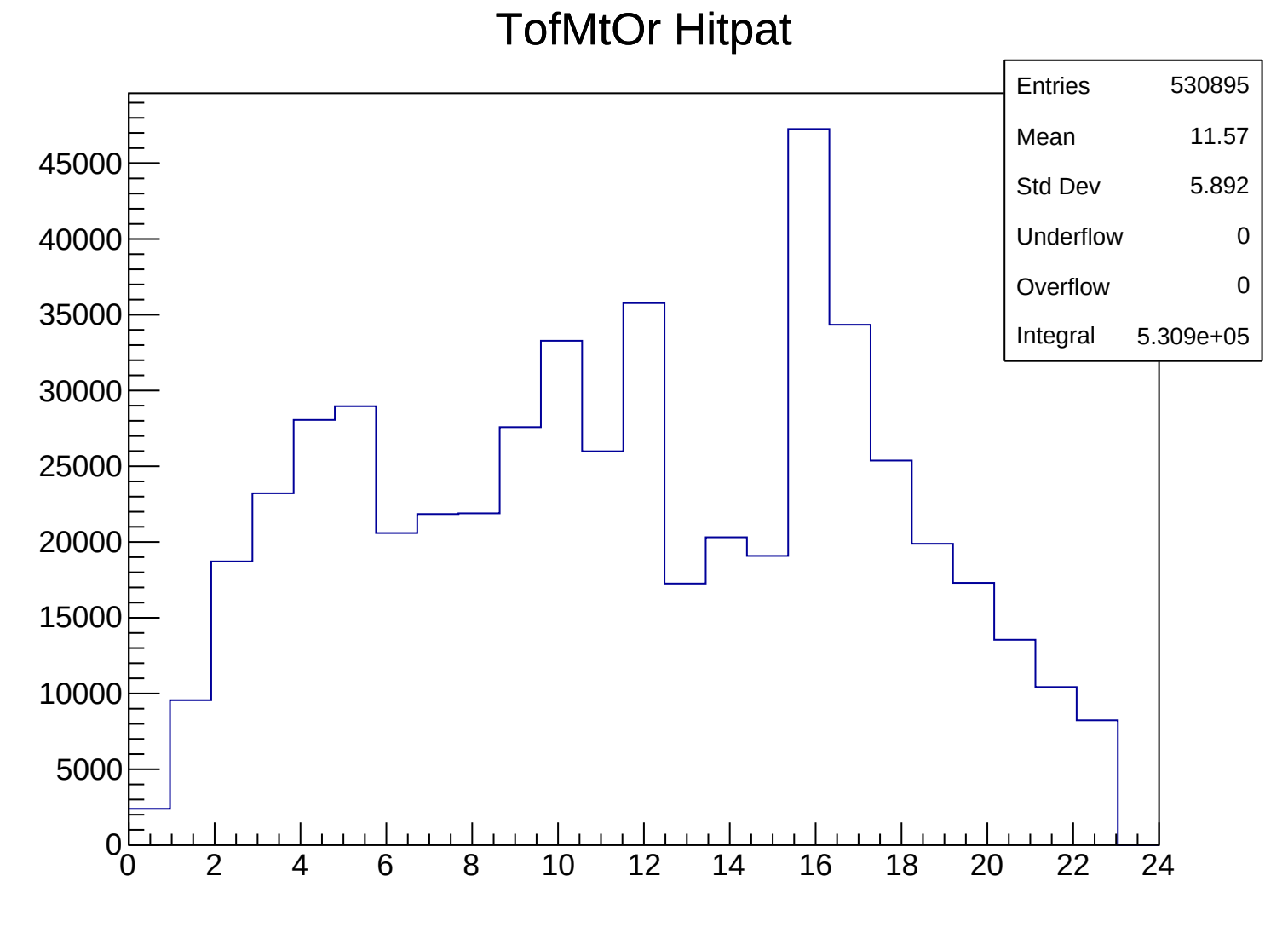
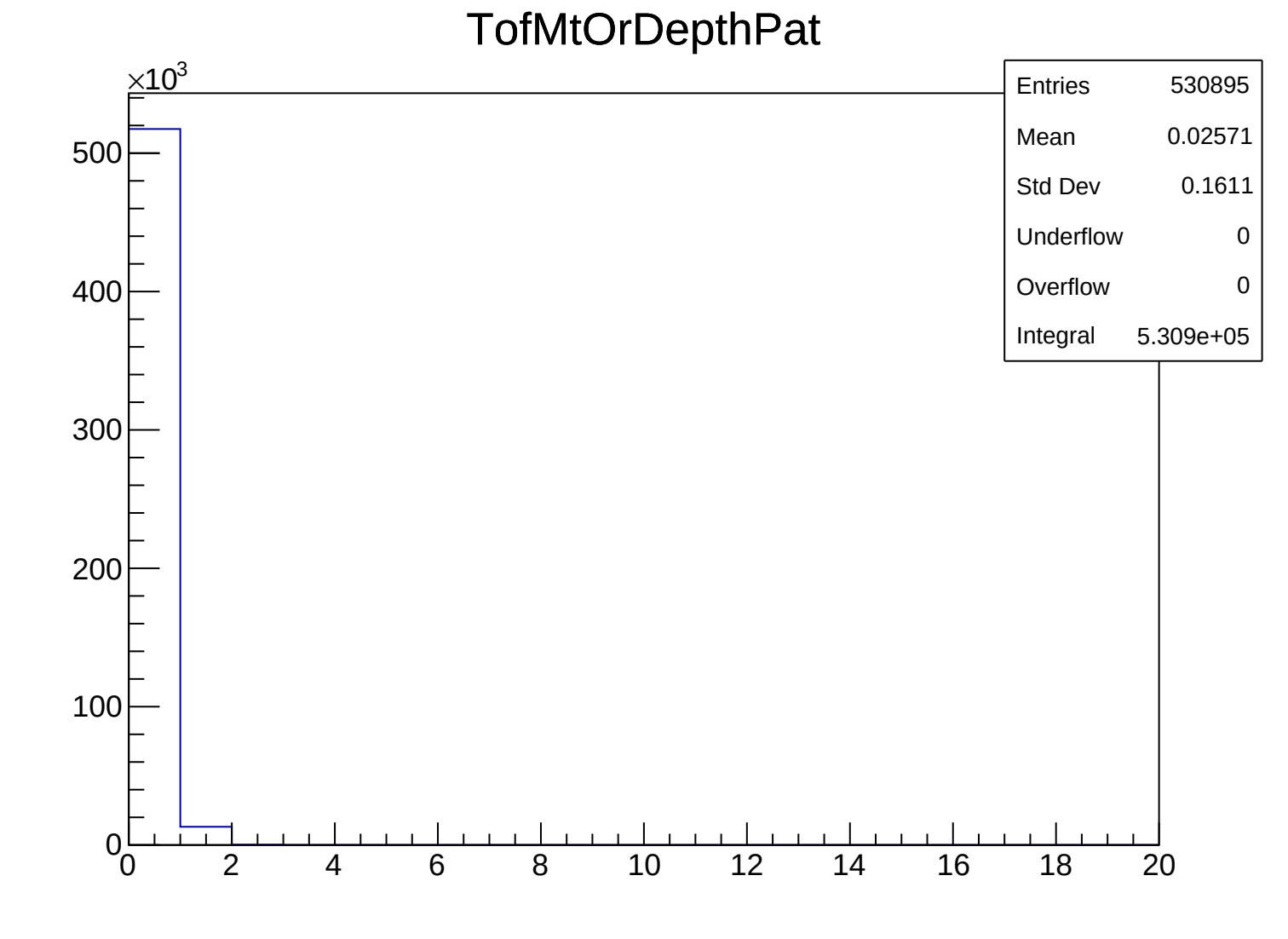
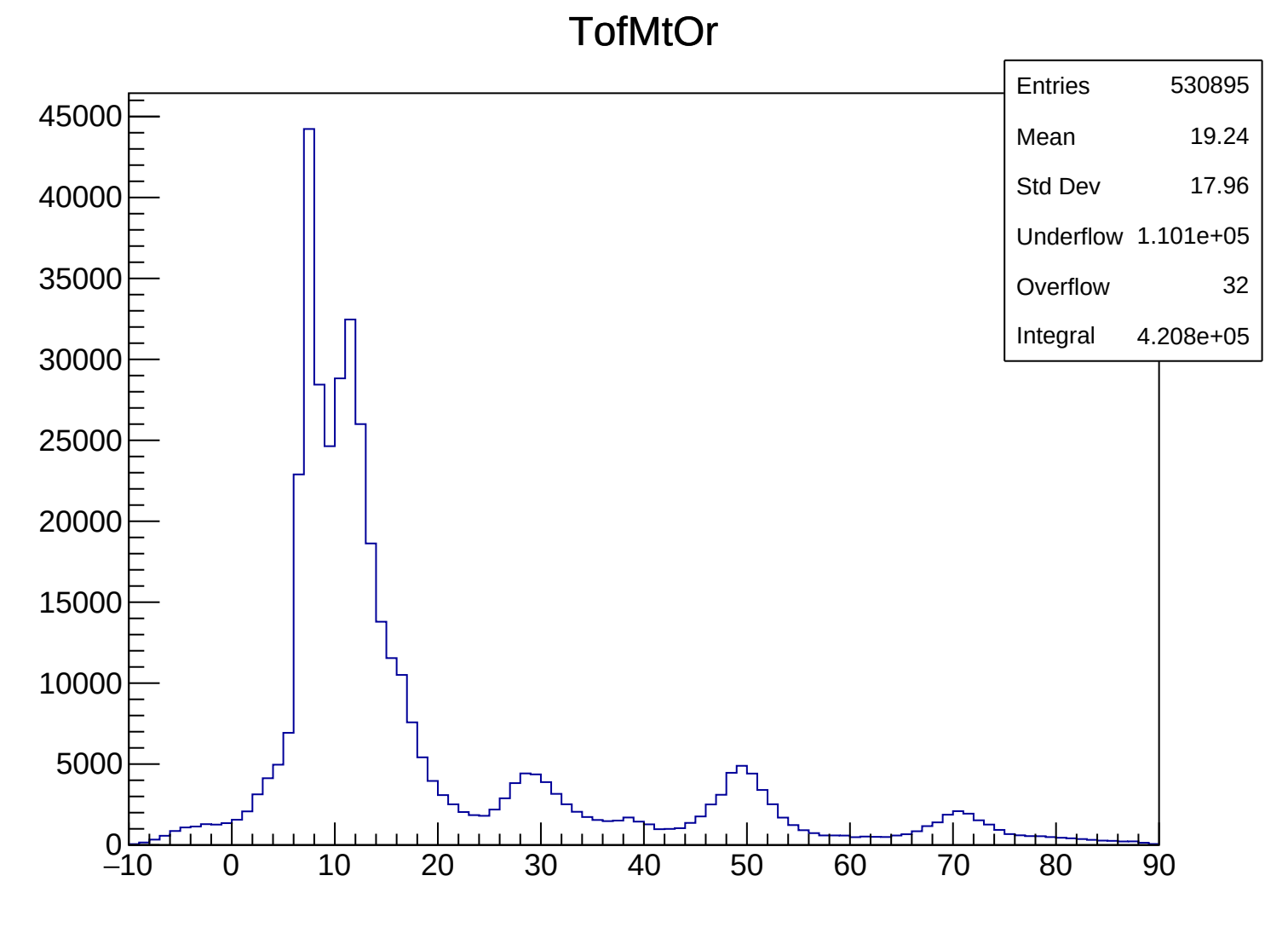
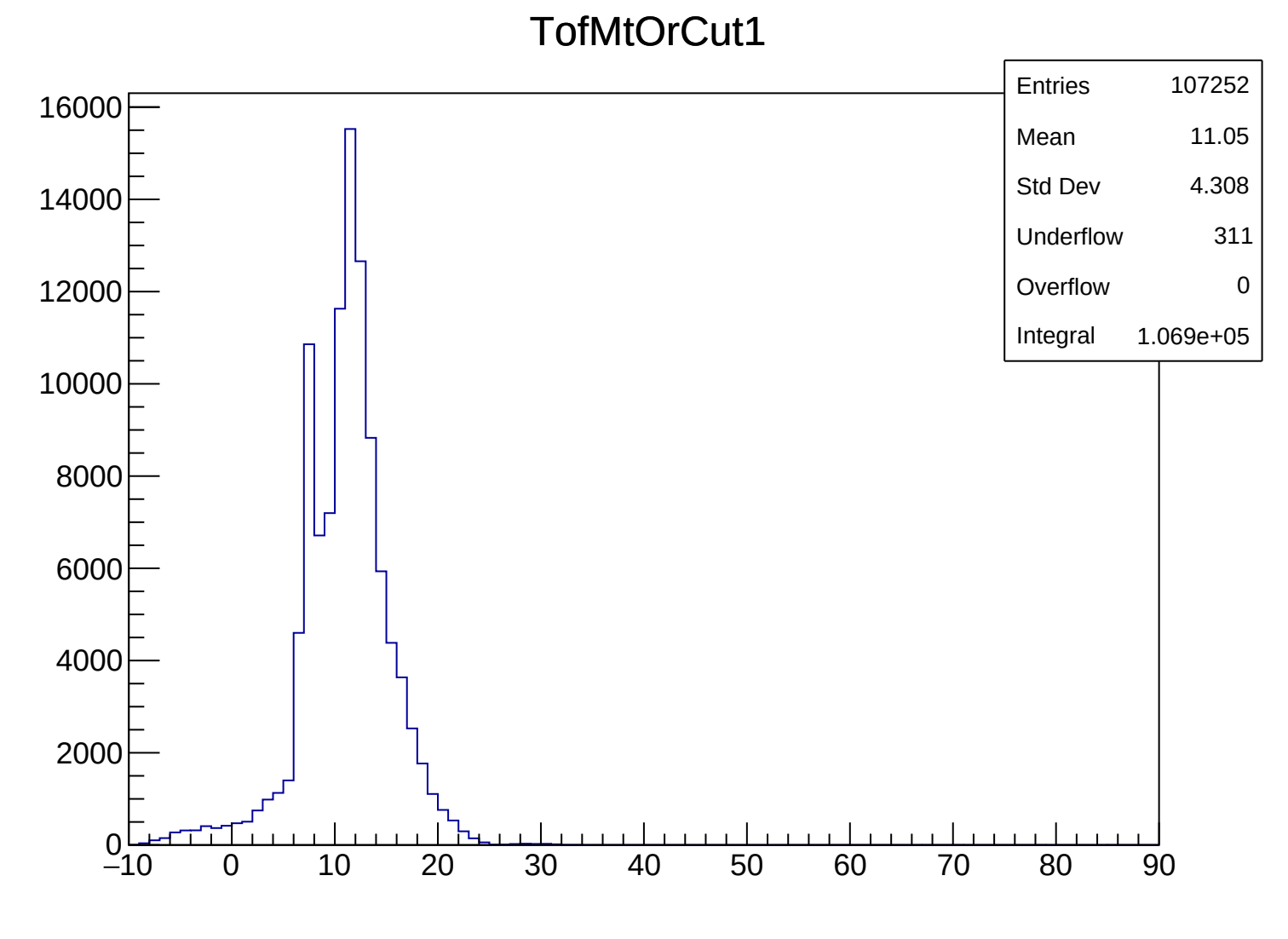
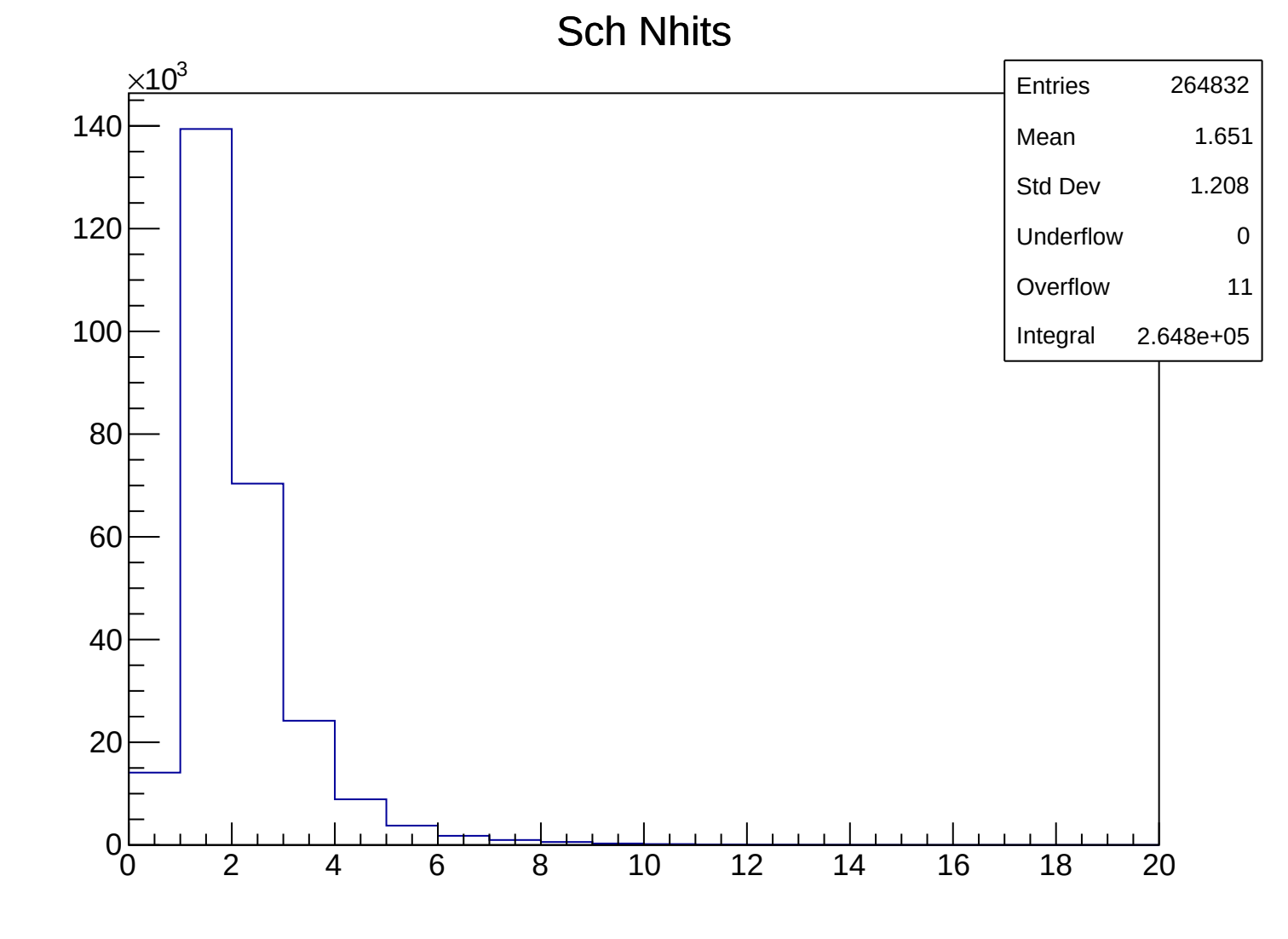

TofMtOr Nhits
×10^3
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Entries 264832
Mean 2.069
Std Dev 1.316
Underflow 0
Overflow 0
Integral 2.648e+05

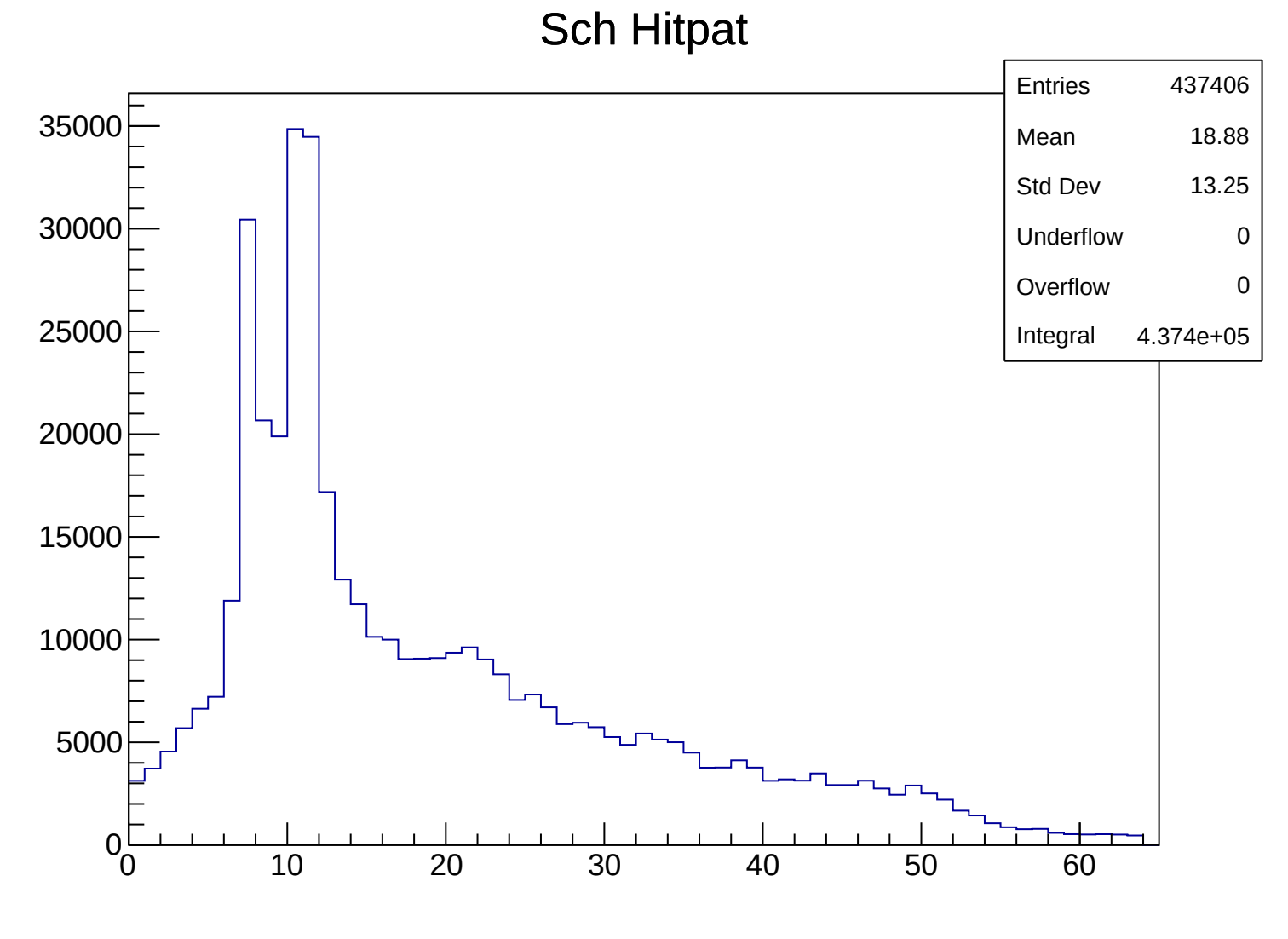

TofMtOr Hitpat
Entries 530895
Mean 11.57
Std Dev 5.892
Underflow 0
Overflow 0
Integral 5.309e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20
22
24

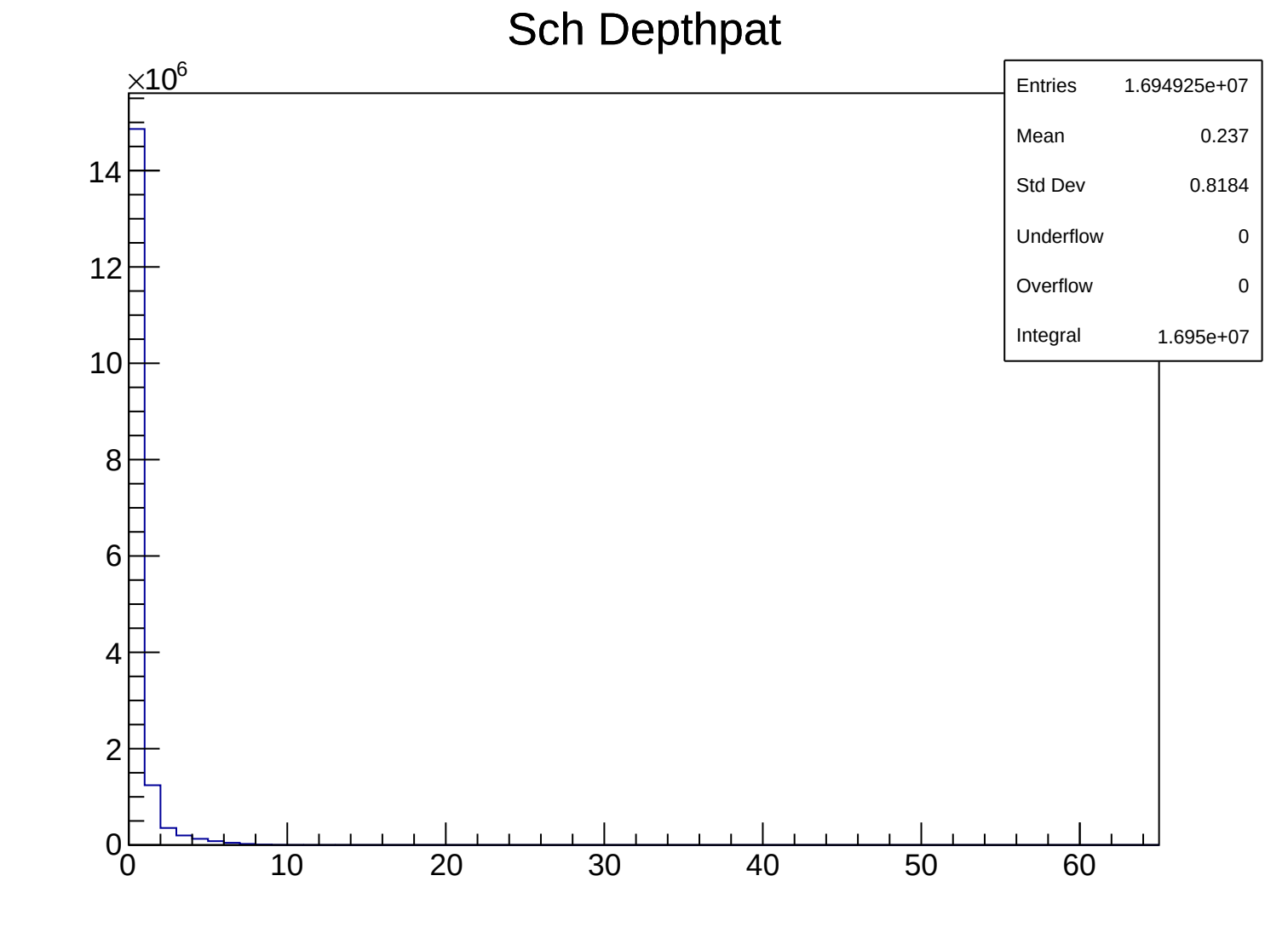

TofMtOrDepthPat
×10^3
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Entries 530895
Mean 0.02571
Std Dev 0.1611
Underflow 0
Overflow 0
Integral 5.309e+05

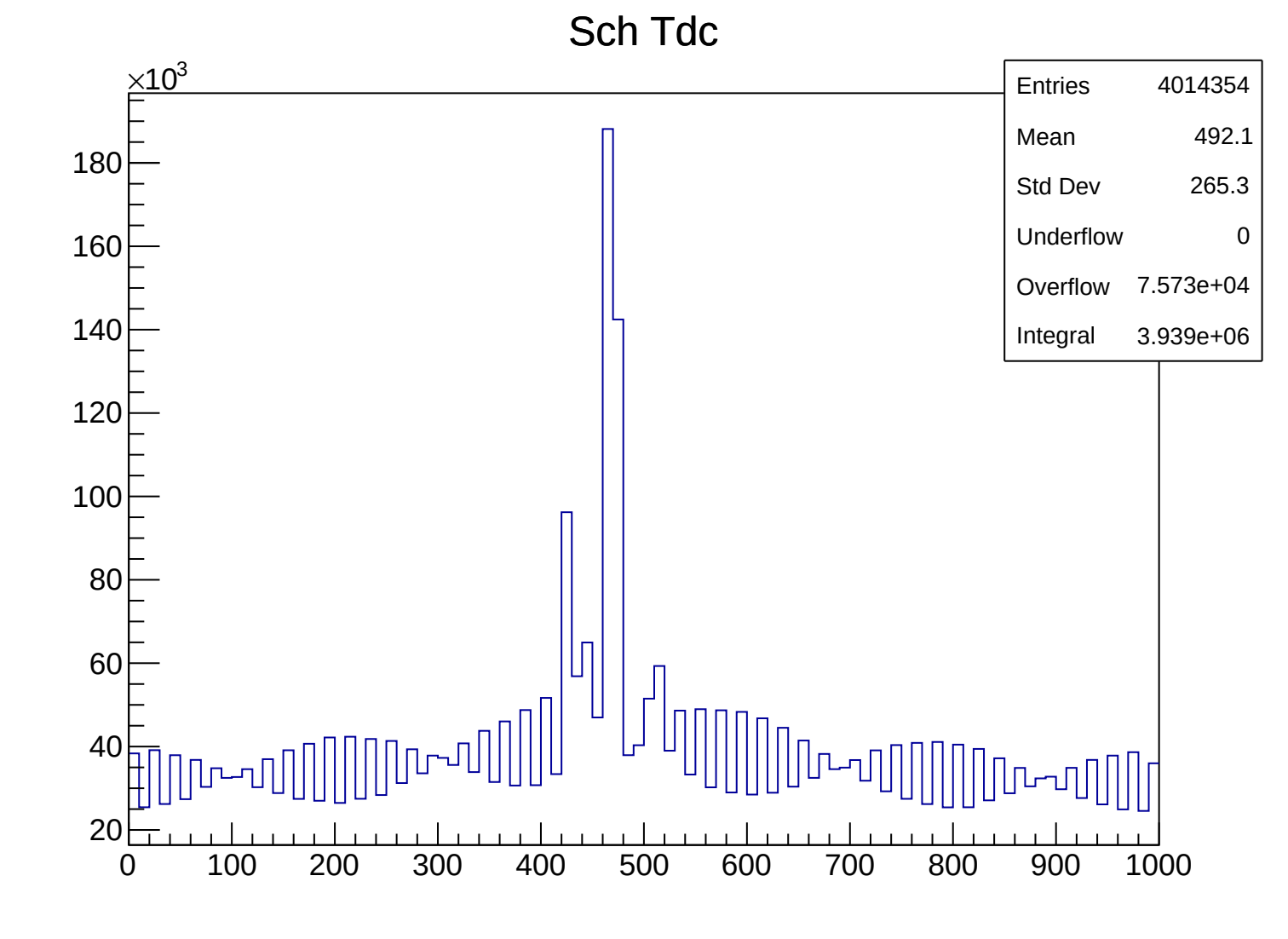

TofMtOr
Entries 530895
Mean 19.24
Std Dev 17.96
Underflow 1.101e+05
Overflow 32
Integral 4.208e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
−10
0
10
20
30
40
50
60
70
80
90

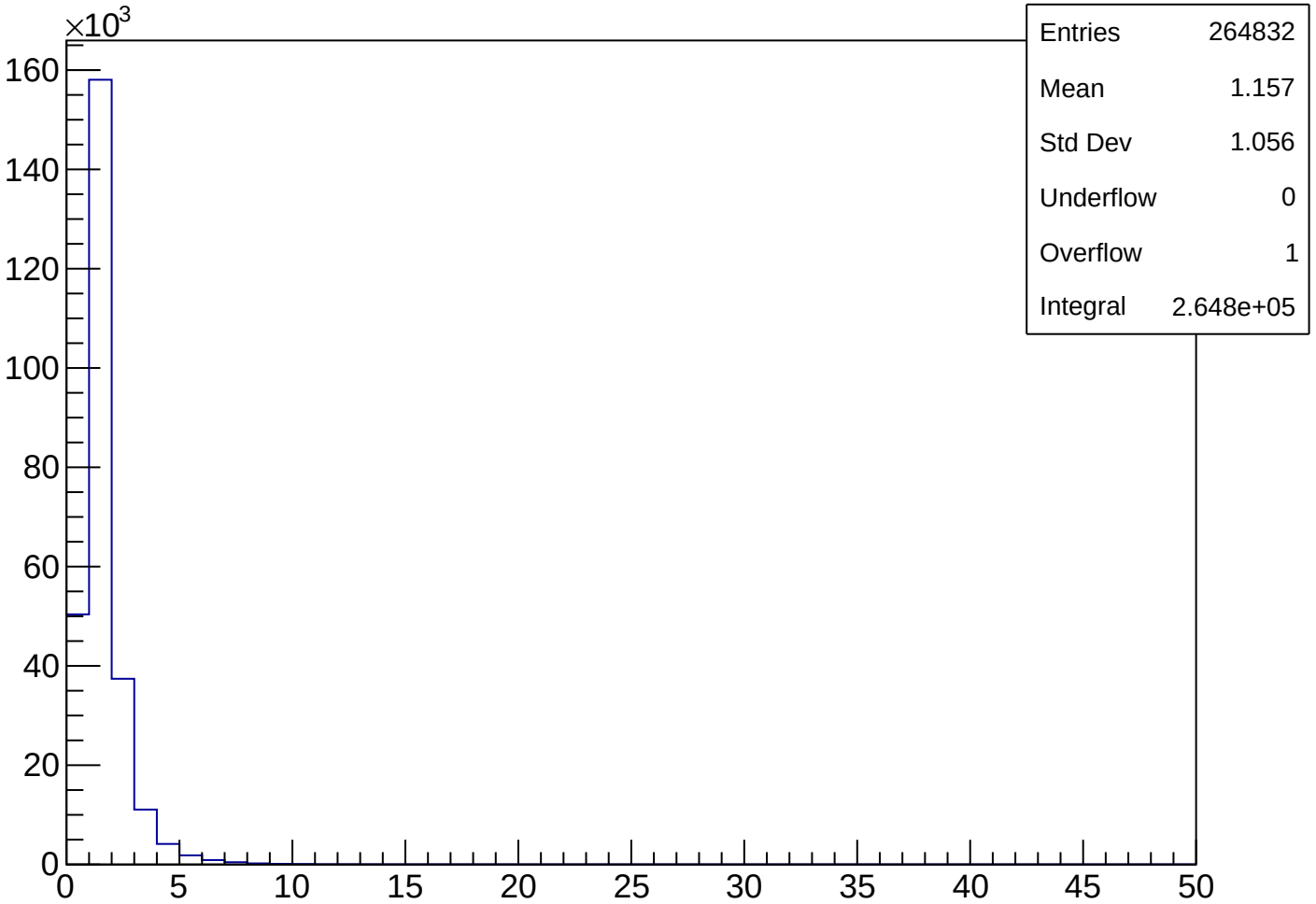

TofMtOrCut1
Entries 107252
Mean 11.05
Std Dev 4.308
Underflow 311
Overflow 0
Integral 1.069e+05
16000
14000
12000
10000
8000
6000
4000
2000
0
−10
0
10
20
30
40
50
60
70
80
90

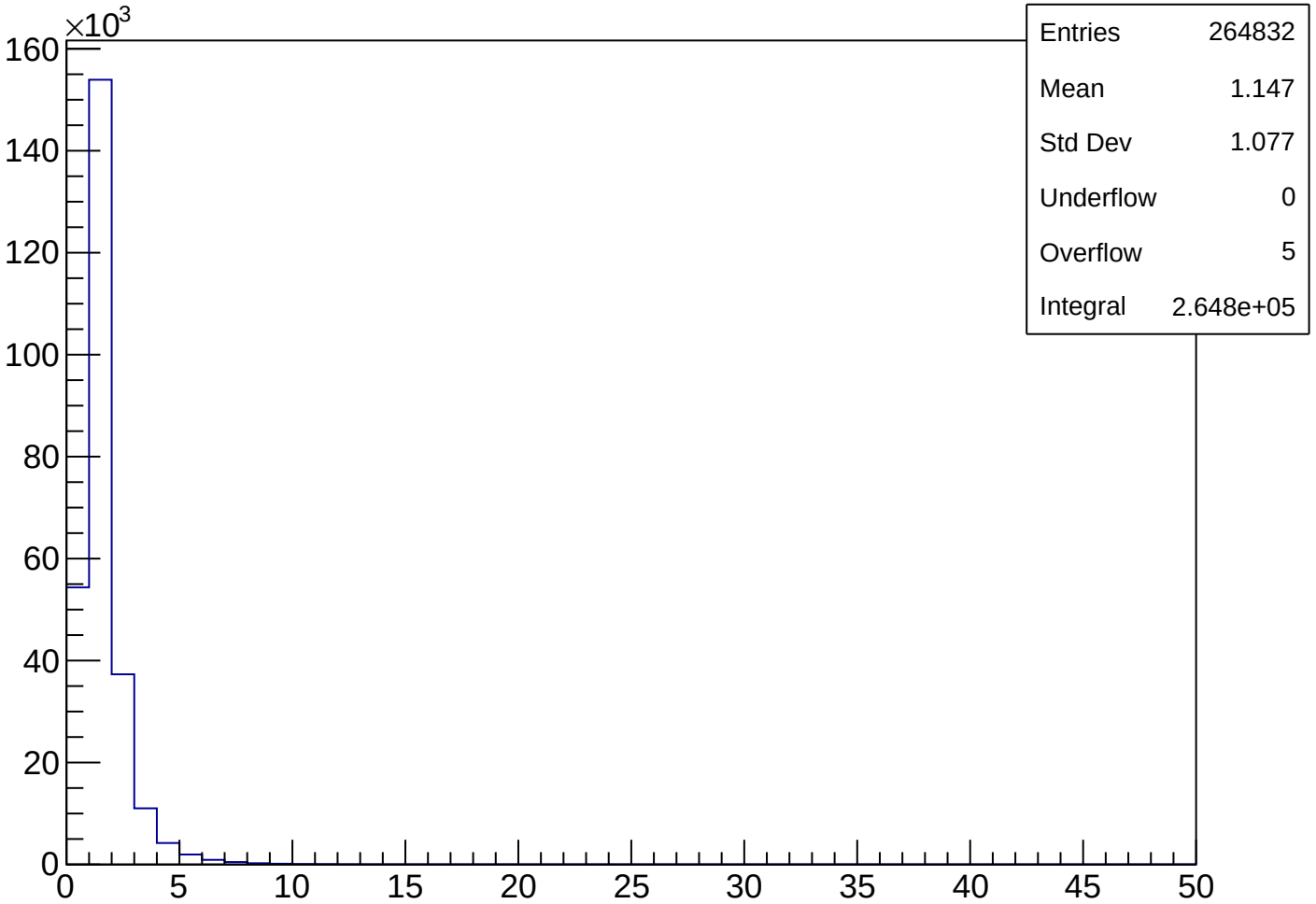

Sch Nhits
×10^3
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Entries 264832
Mean 1.651
Std Dev 1.208
Underflow 0
Overflow 11
Integral 2.648e+05

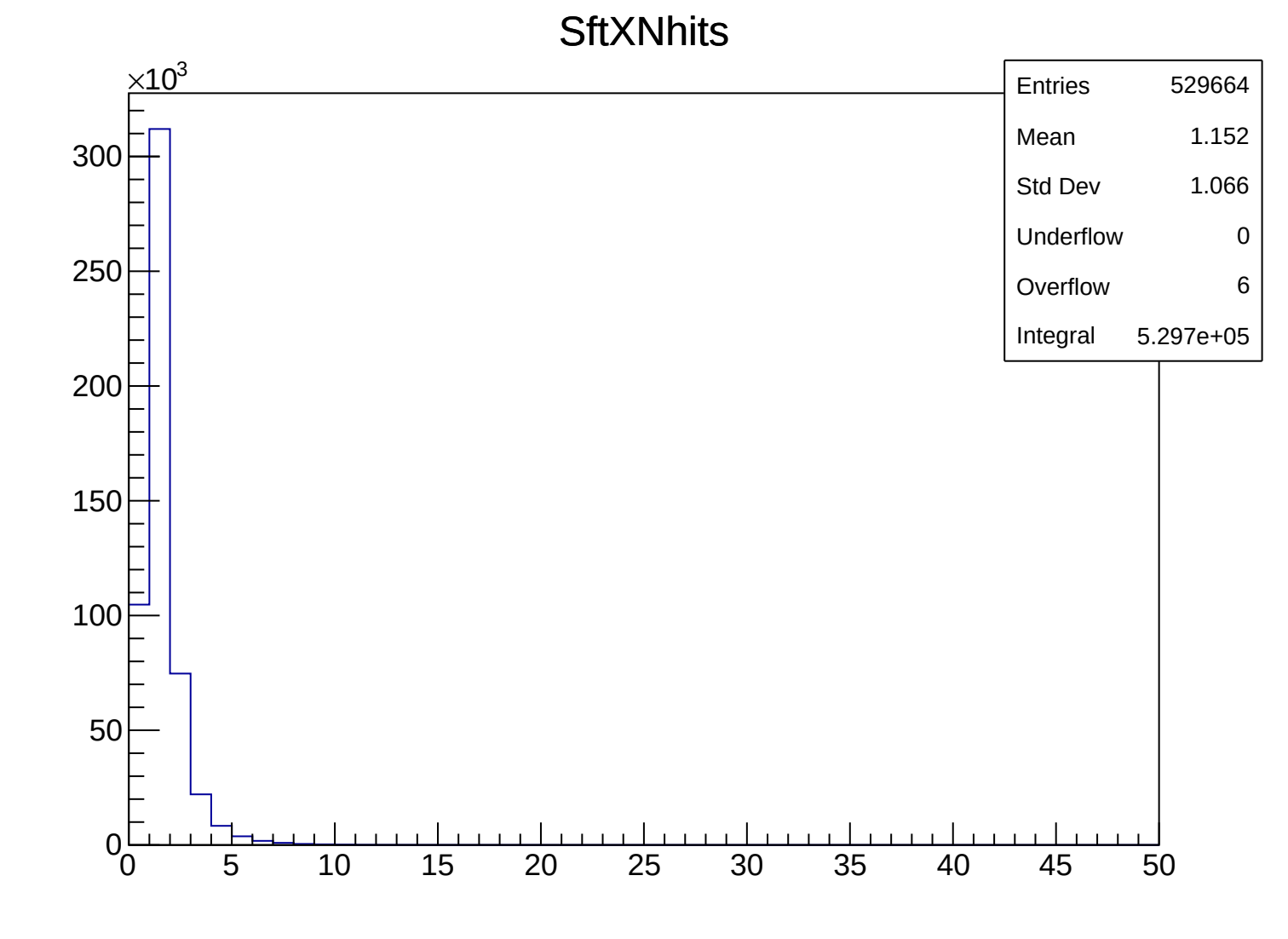

Sch Hitpat
Entries 437406
Mean 18.88
Std Dev 13.25
Underflow 0
Overflow 0
Integral 4.374e+05
35000
30000
25000
20000
15000
10000
5000
0
0
10
20
30
40
50
60

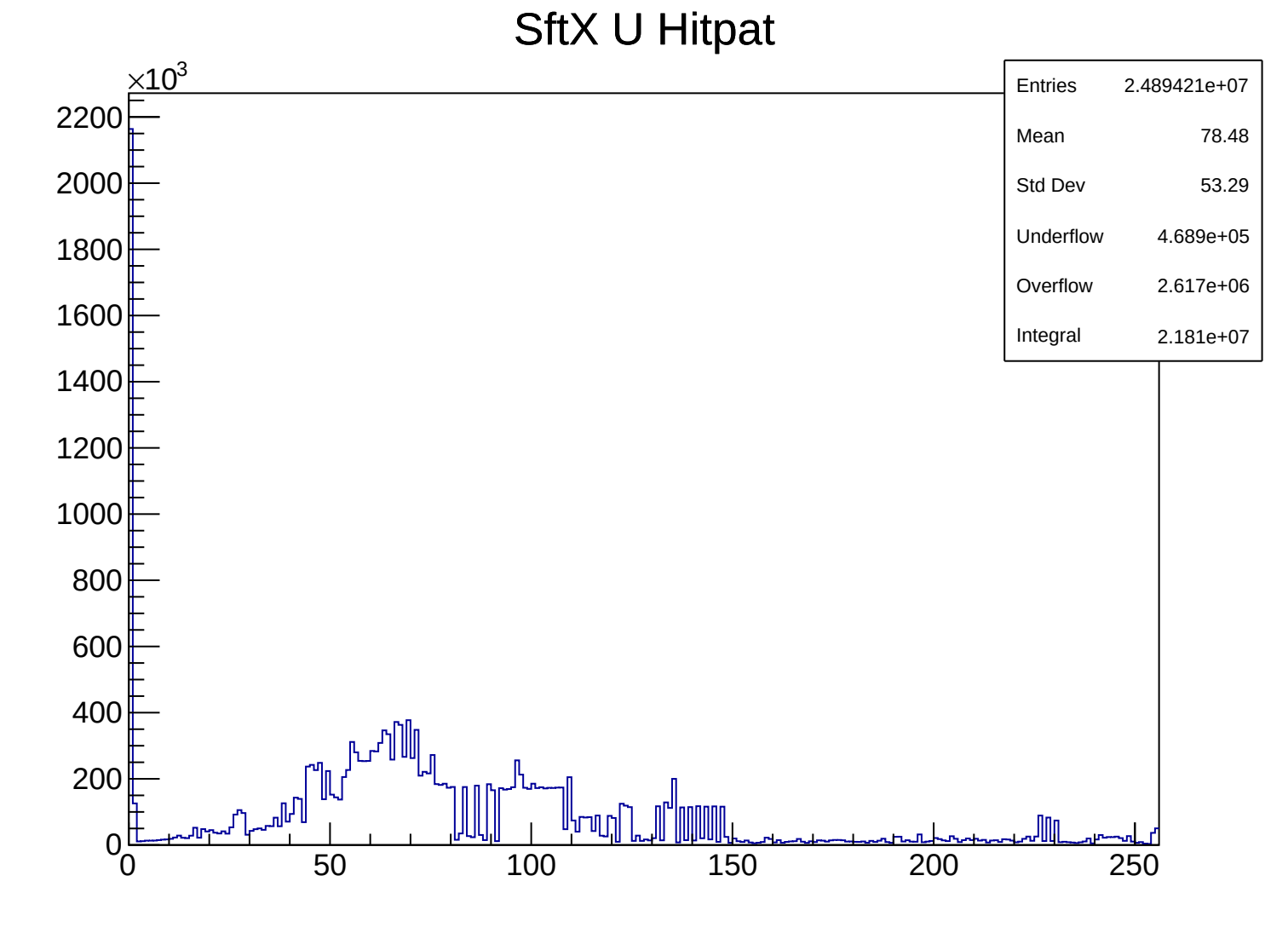

Sch Depthpat
×10^6
14
12
10
8
6
4
2
0
0
10
20
30
40
50
60
Entries 1.694925e+07
Mean 0.237
Std Dev 0.8184
Underflow 0
Overflow 0
Integral 1.695e+07

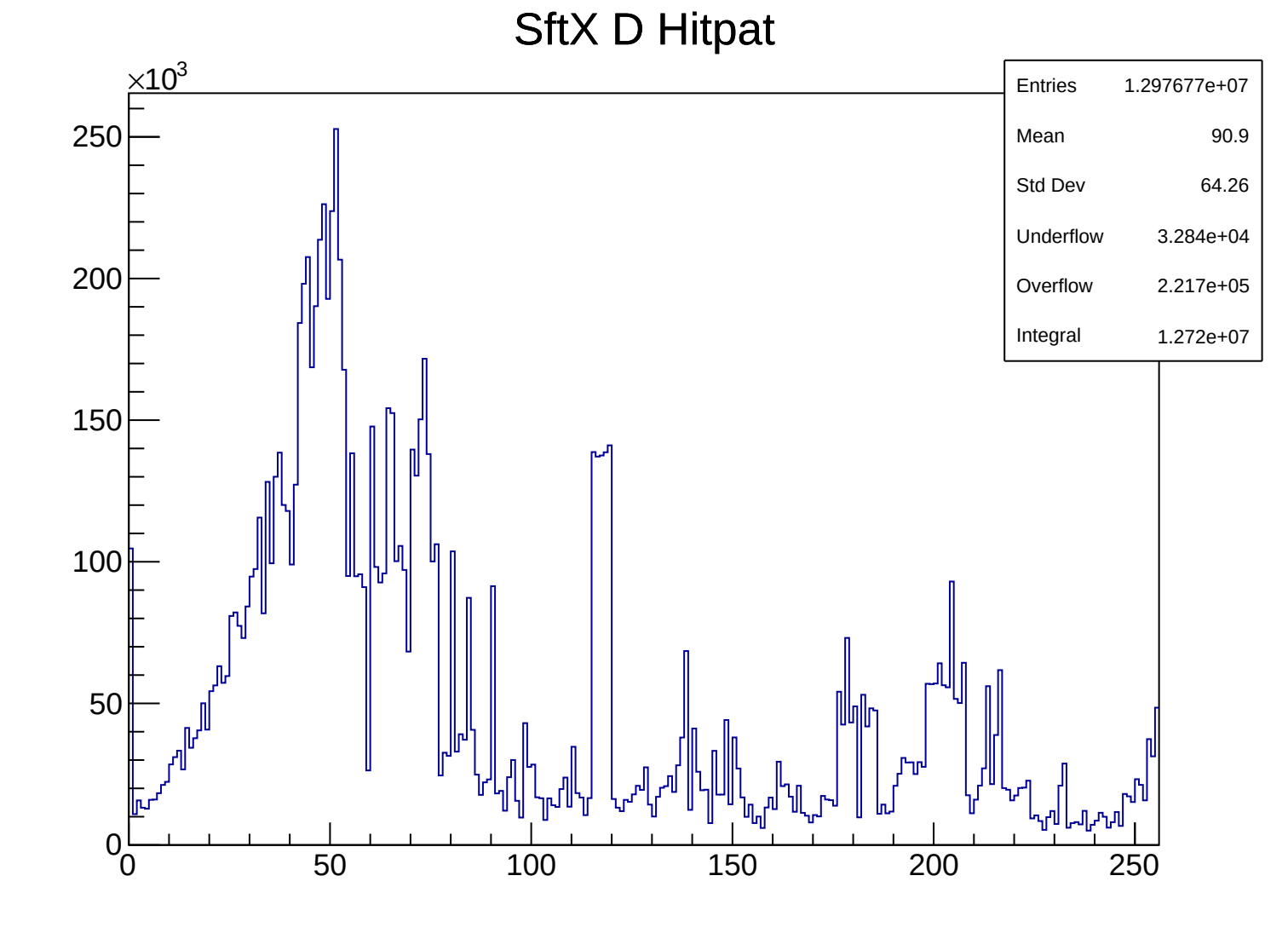

Sch Tdc
×10^3
180
160
140
120
100
80
60
40
20
0
100
200
300
400
500
600
700
800
900
1000
Entries 4014354
Mean 492.1
Std Dev 265.3
Underflow 0
Overflow 7.573e+04
Integral 3.939e+06

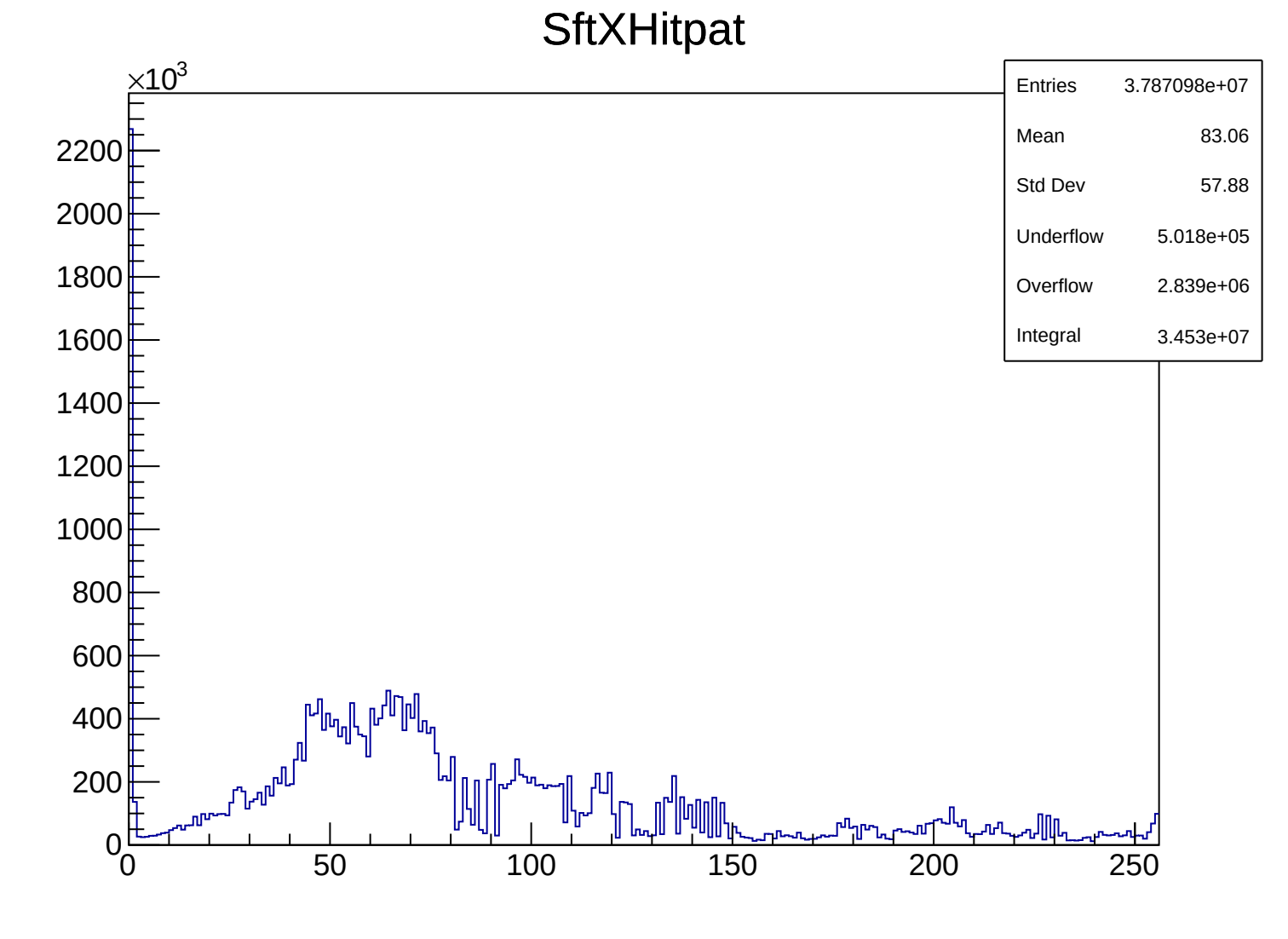

SftX U Nhits
×10^3
160
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
Entries 264832
Mean 1.157
Std Dev 1.056
Underflow 0
Overflow 1
Integral 2.648e+05

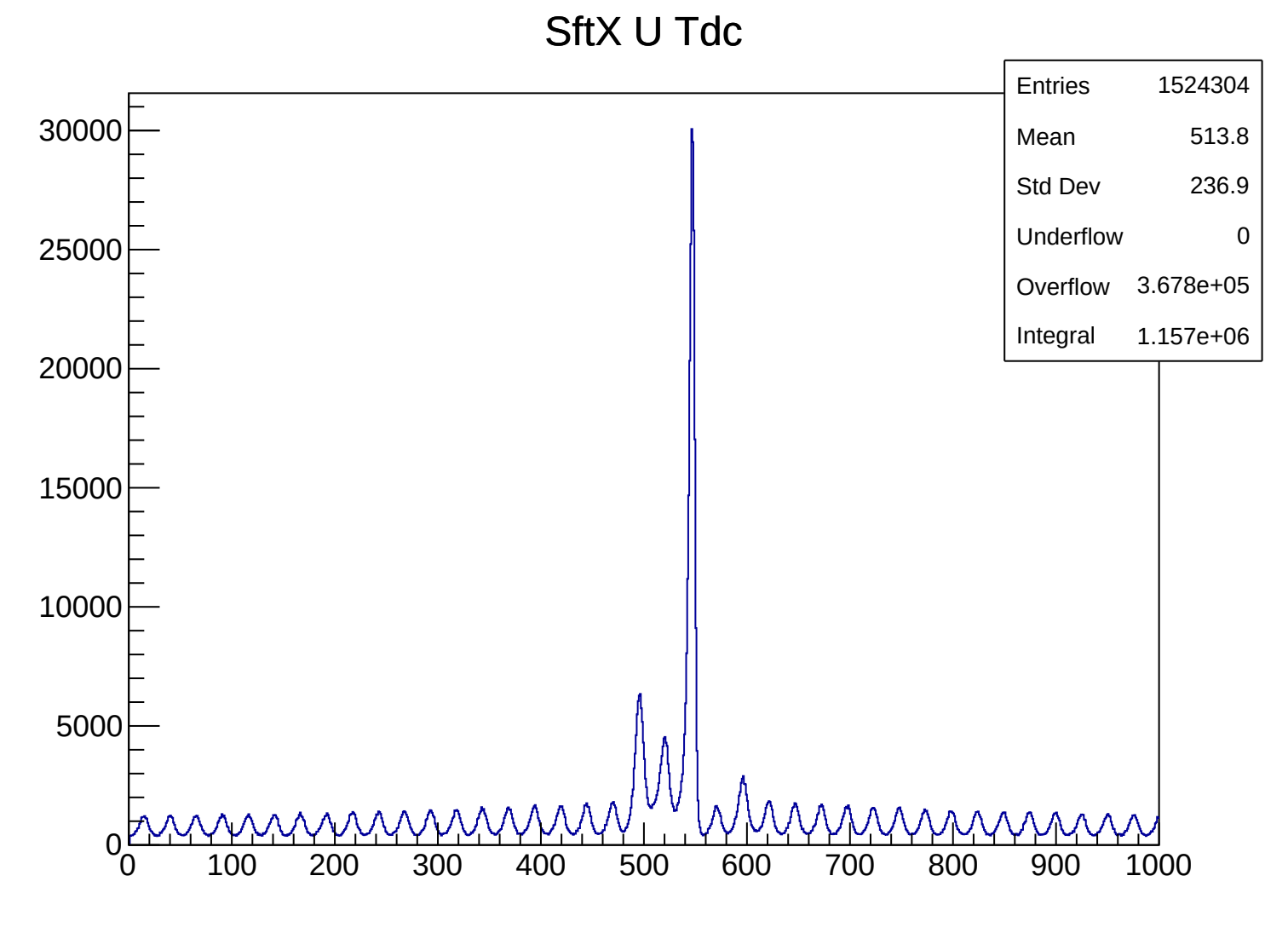

SftX D Nhits
×10^3
160
140
120
100
80
60
40
20
0
0
5
10
15
20
25
30
35
40
45
50
Entries 264832
Mean 1.147
Std Dev 1.077
Underflow 0
Overflow 5
Integral 2.648e+05

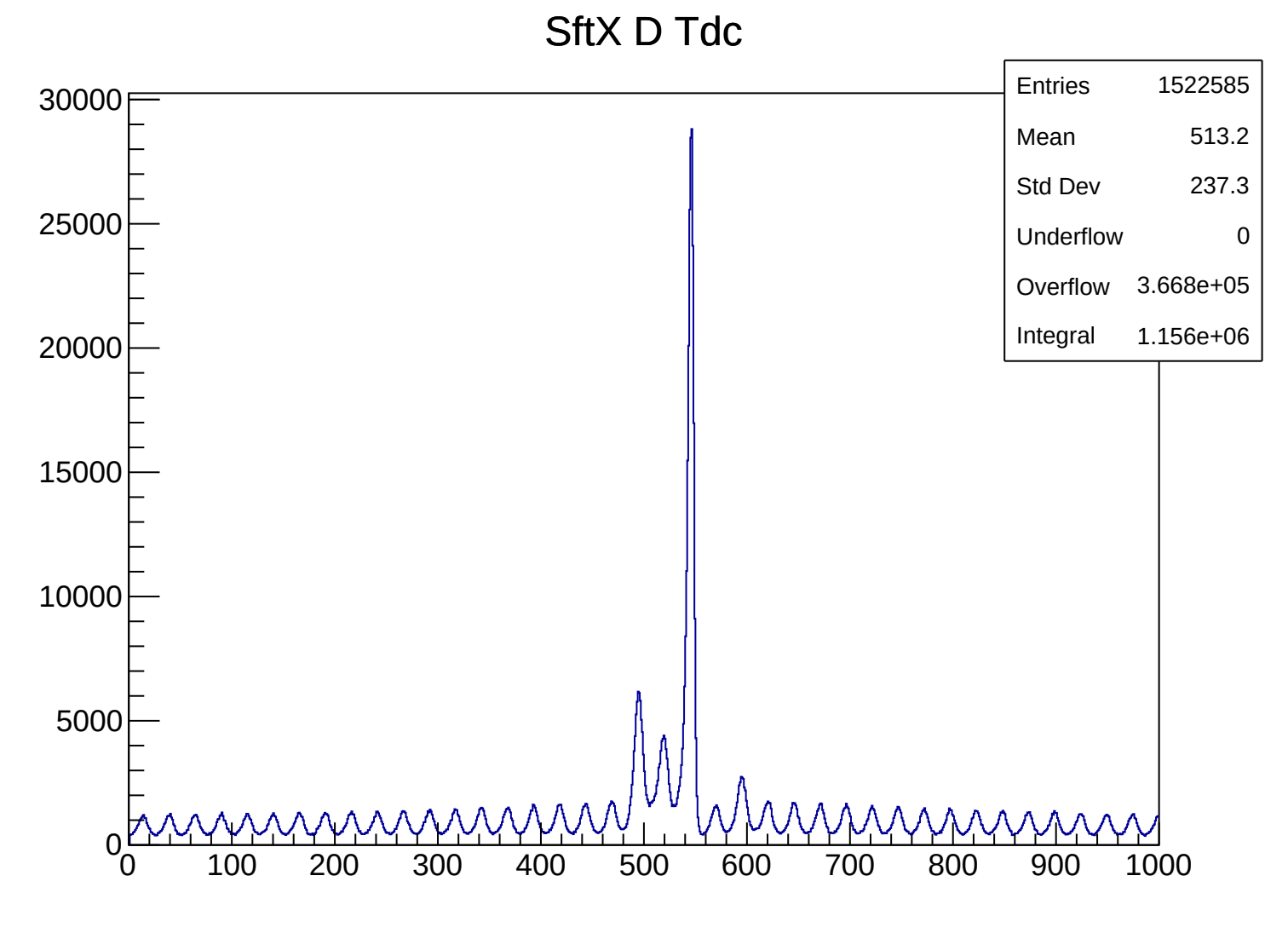

SftXNhits
×10^3
300
250
200
150
100
50
0
0
5
10
15
20
25
30
35
40
45
50
Entries 529664
Mean 1.152
Std Dev 1.066
Underflow 0
Overflow 6
Integral 5.297e+05

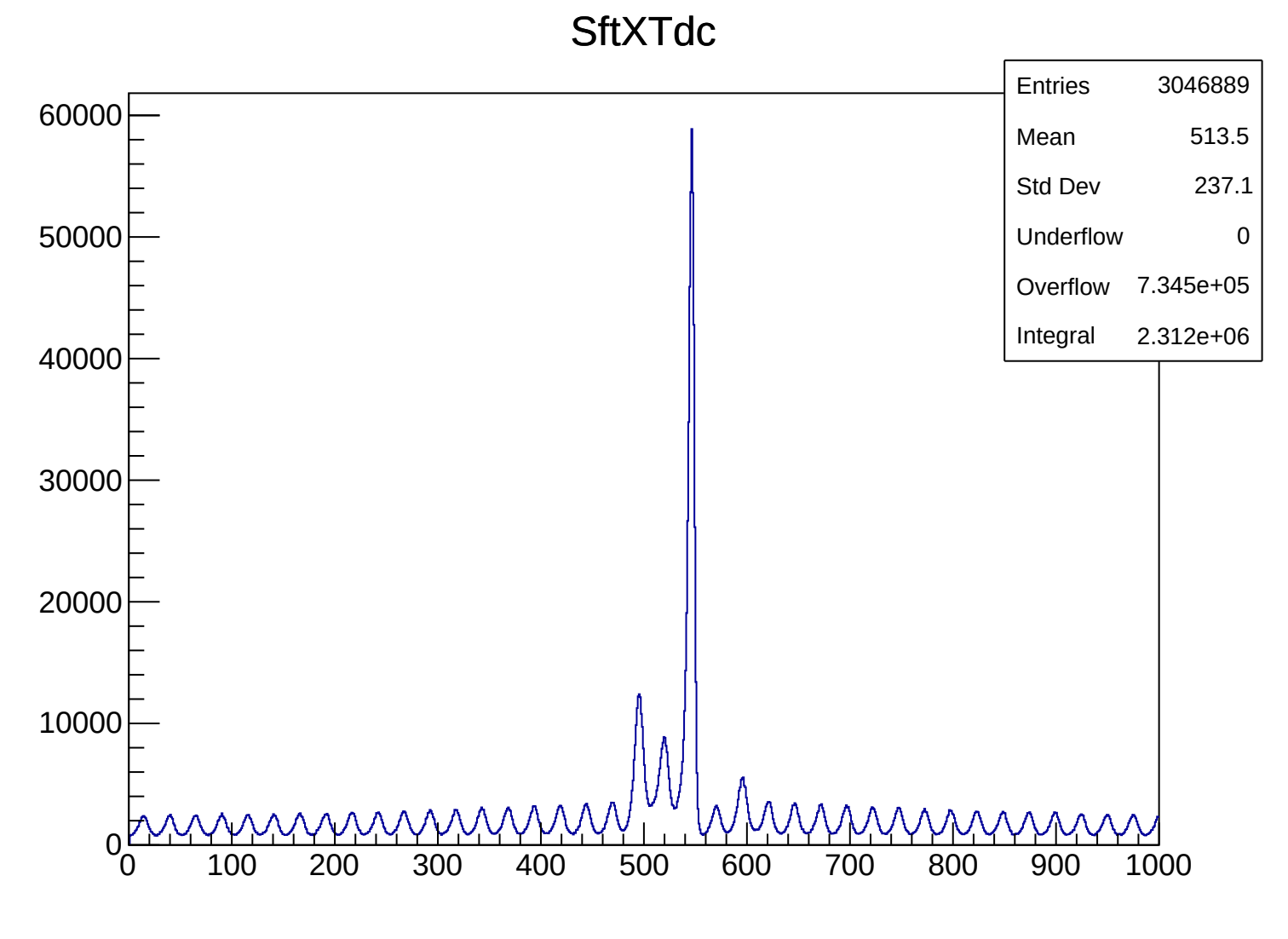

SftX U Hitpat
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
Entries 2.489421e+07
Mean 78.48
Std Dev 53.29
Underflow 4.689e+05
Overflow 2.617e+06
Integral 2.181e+07

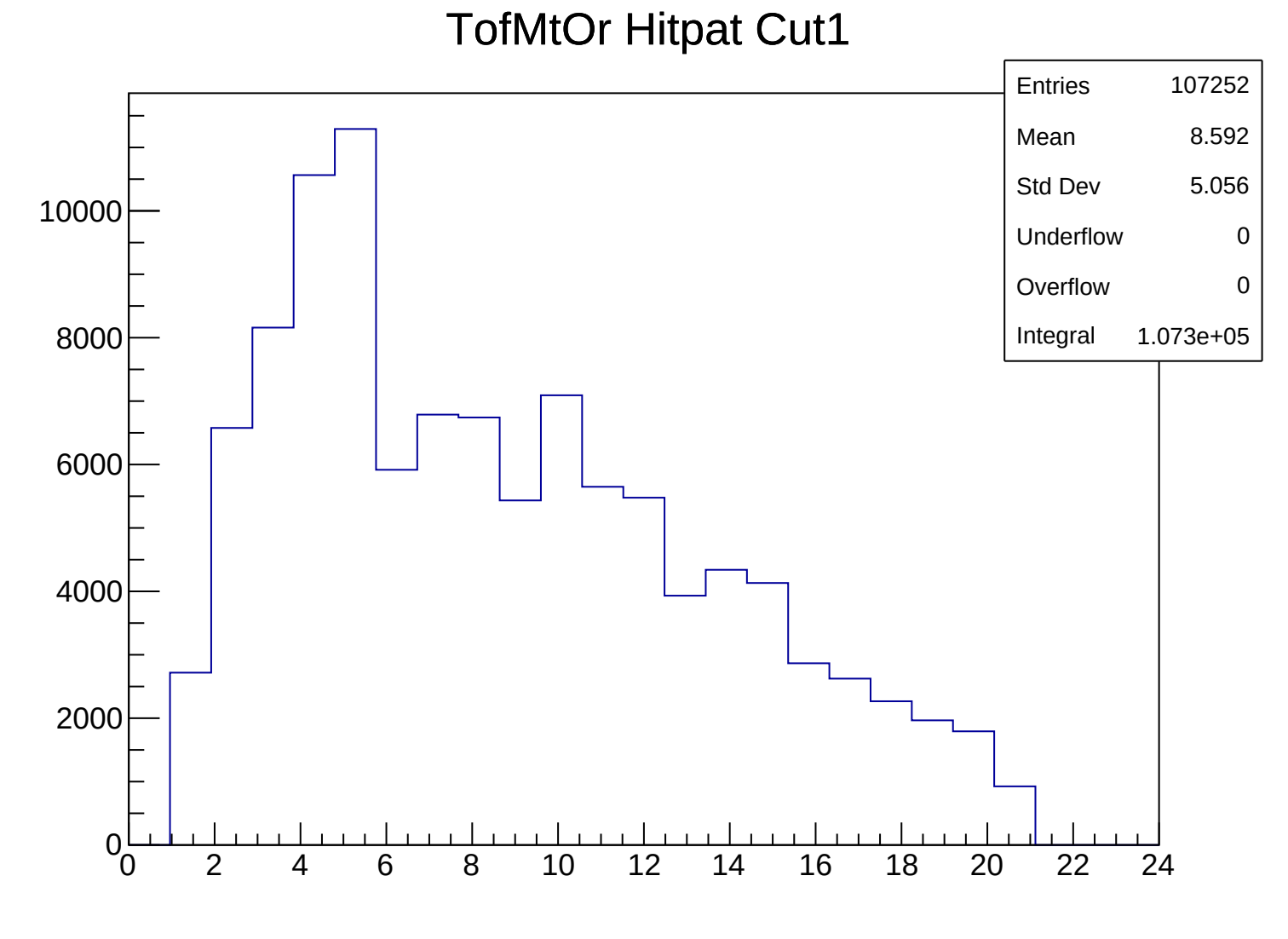

SftX D Hitpat
×10^3
250
200
150
100
50
0
0
50
100
150
200
250
Entries 1.297677e+07
Mean 90.9
Std Dev 64.26
Underflow 3.284e+04
Overflow 2.217e+05
Integral 1.272e+07


SftXHitpat
×10^3
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
50
100
150
200
250
Entries 3.787098e+07
Mean 83.06
Std Dev 57.88
Underflow 5.018e+05
Overflow 2.839e+06
Integral 3.453e+07


SftX U Tdc
Entries 1524304
Mean 513.8
Std Dev 236.9
Underflow 0
Overflow 3.678e+05
Integral 1.157e+06
30000
25000
20000
15000
10000
5000
0
0
100
200
300
400
500
600
700
800
900
1000


SftX D Tdc
Entries 1522585
Mean 513.2
Std Dev 237.3
Underflow 0
Overflow 3.668e+05
Integral 1.156e+06
30000
25000
20000
15000
10000
5000
0
0
100
200
300
400
500
600
700
800
900
1000


SftXTdc
Entries 3046889
Mean 513.5
Std Dev 237.1
Underflow 0
Overflow 7.345e+05
Integral 2.312e+06
60000
50000
40000
30000
20000
10000
0
0
100
200
300
400
500
600
700
800
900
1000


TofMtOr Hitpat Cut1
Entries 107252
Mean 8.592
Std Dev 5.056
Underflow 0
Overflow 0
Integral 1.073e+05
10000
8000
6000
4000
2000
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4
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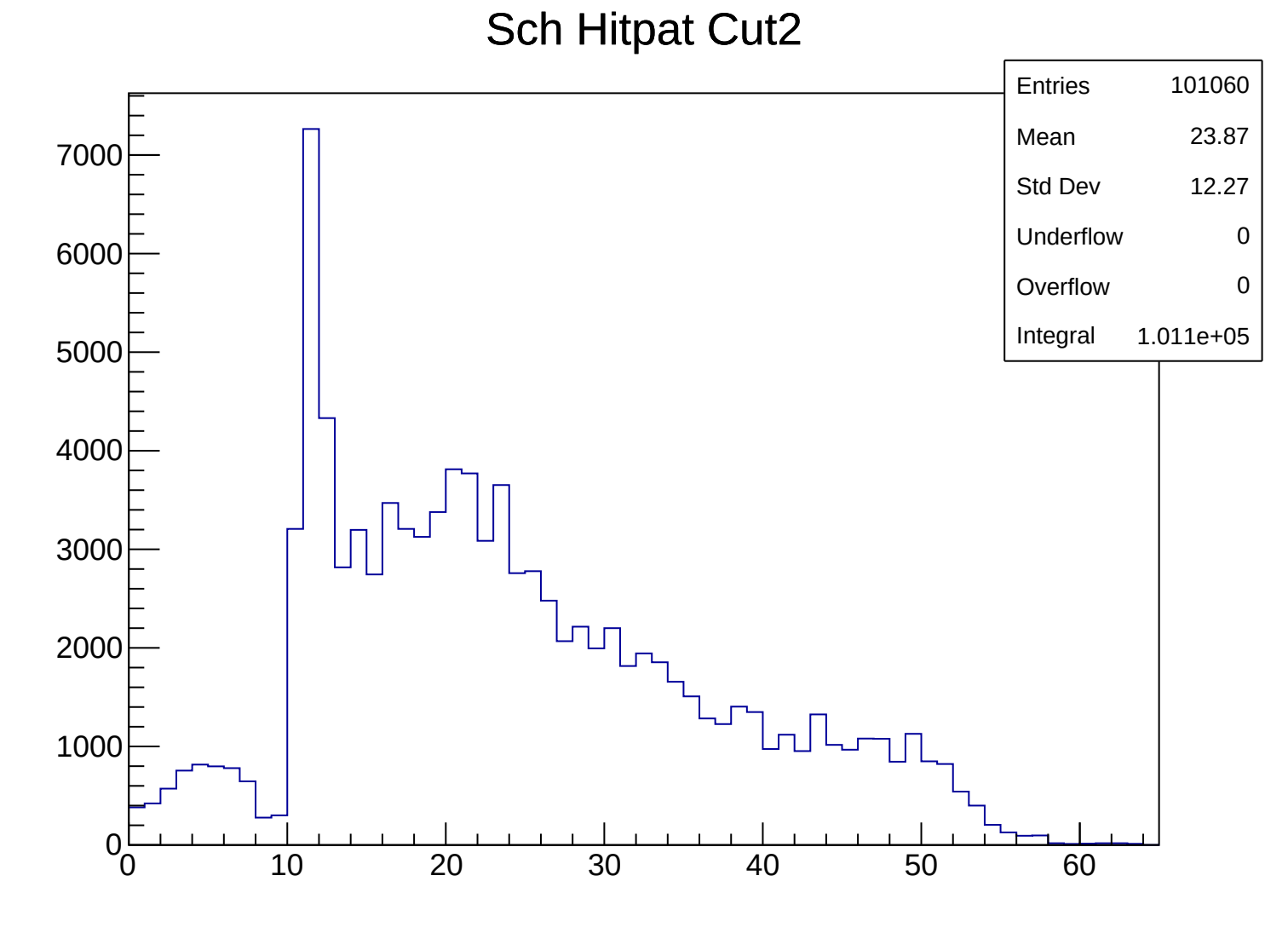
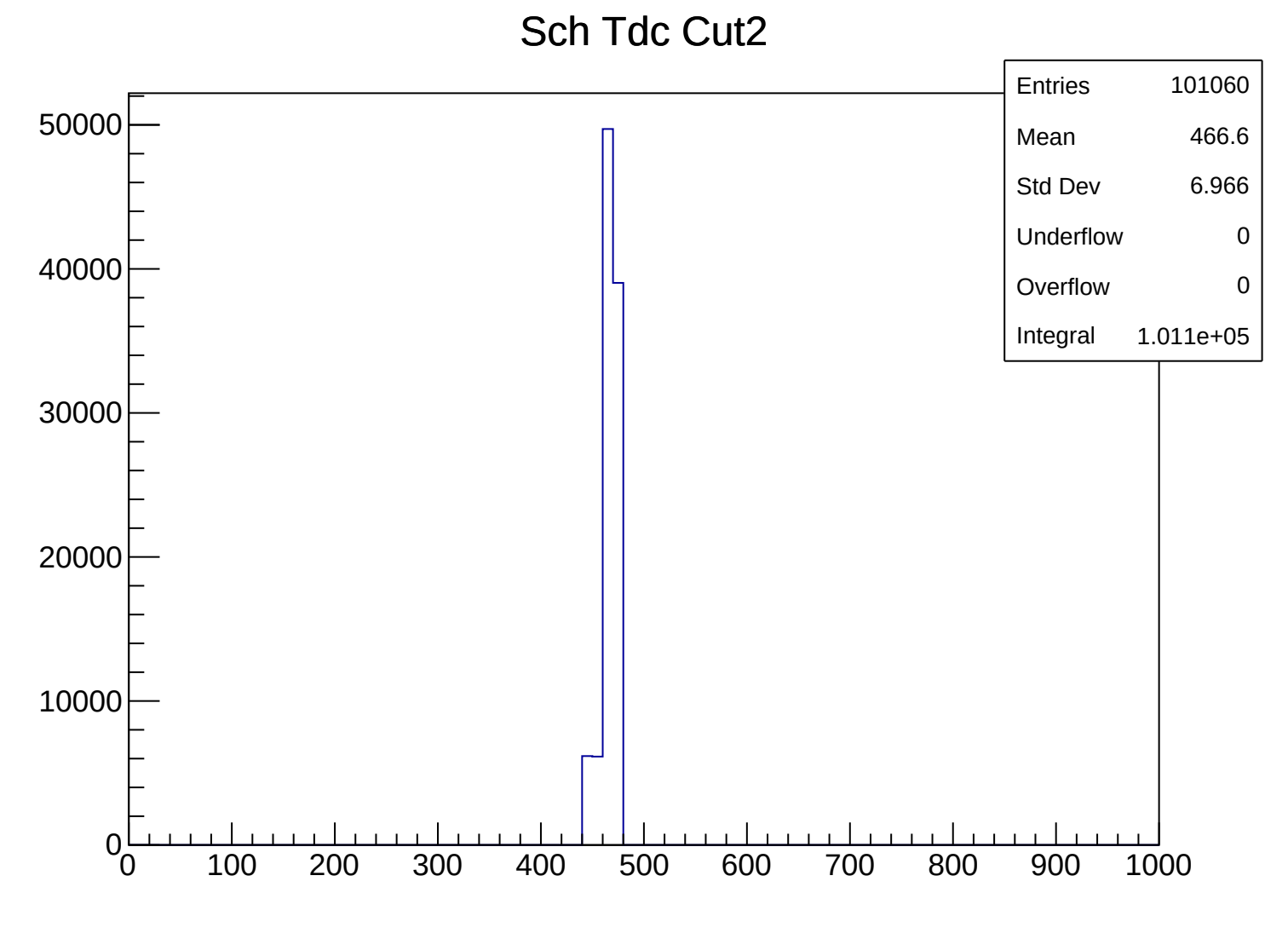
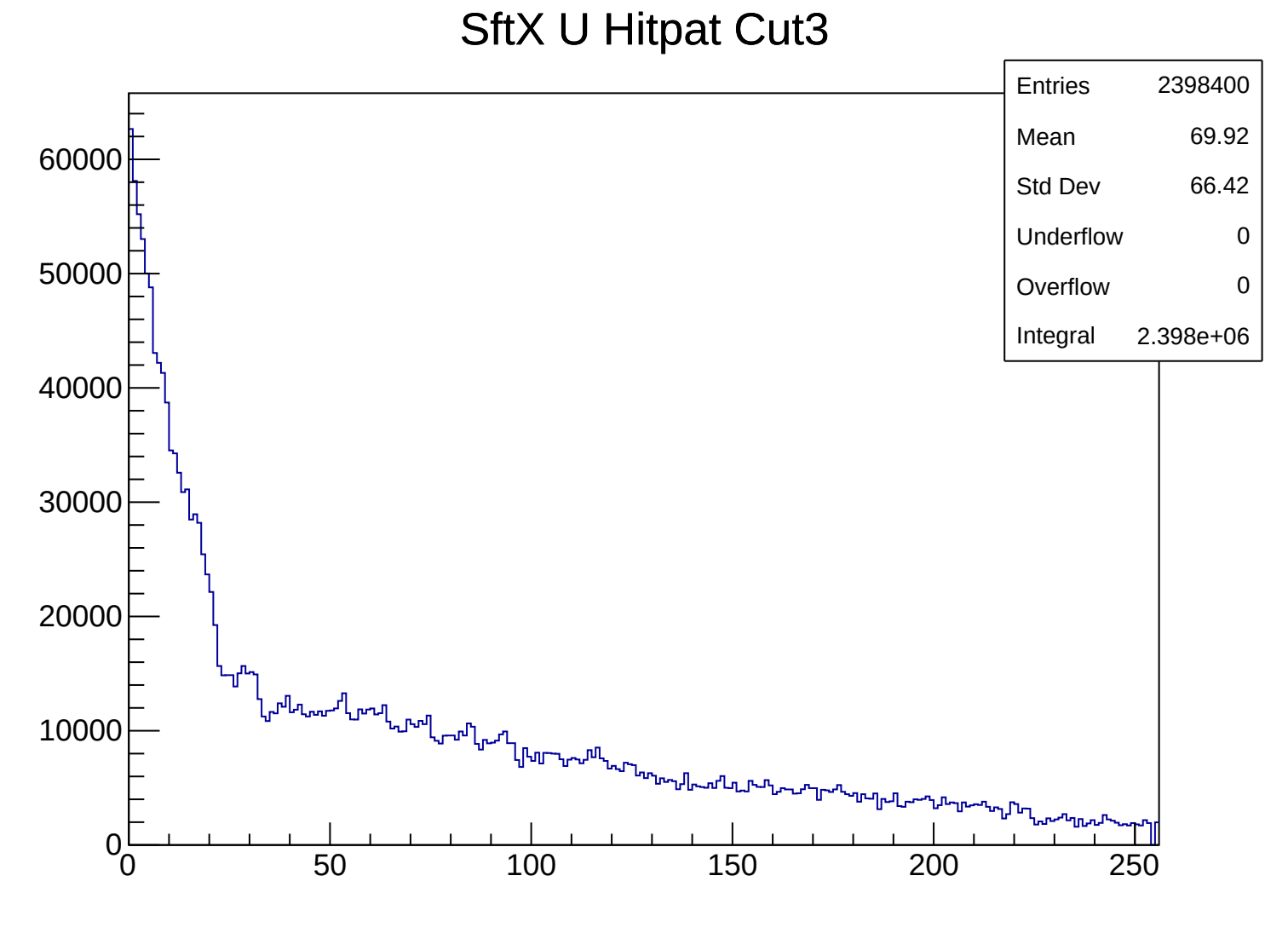
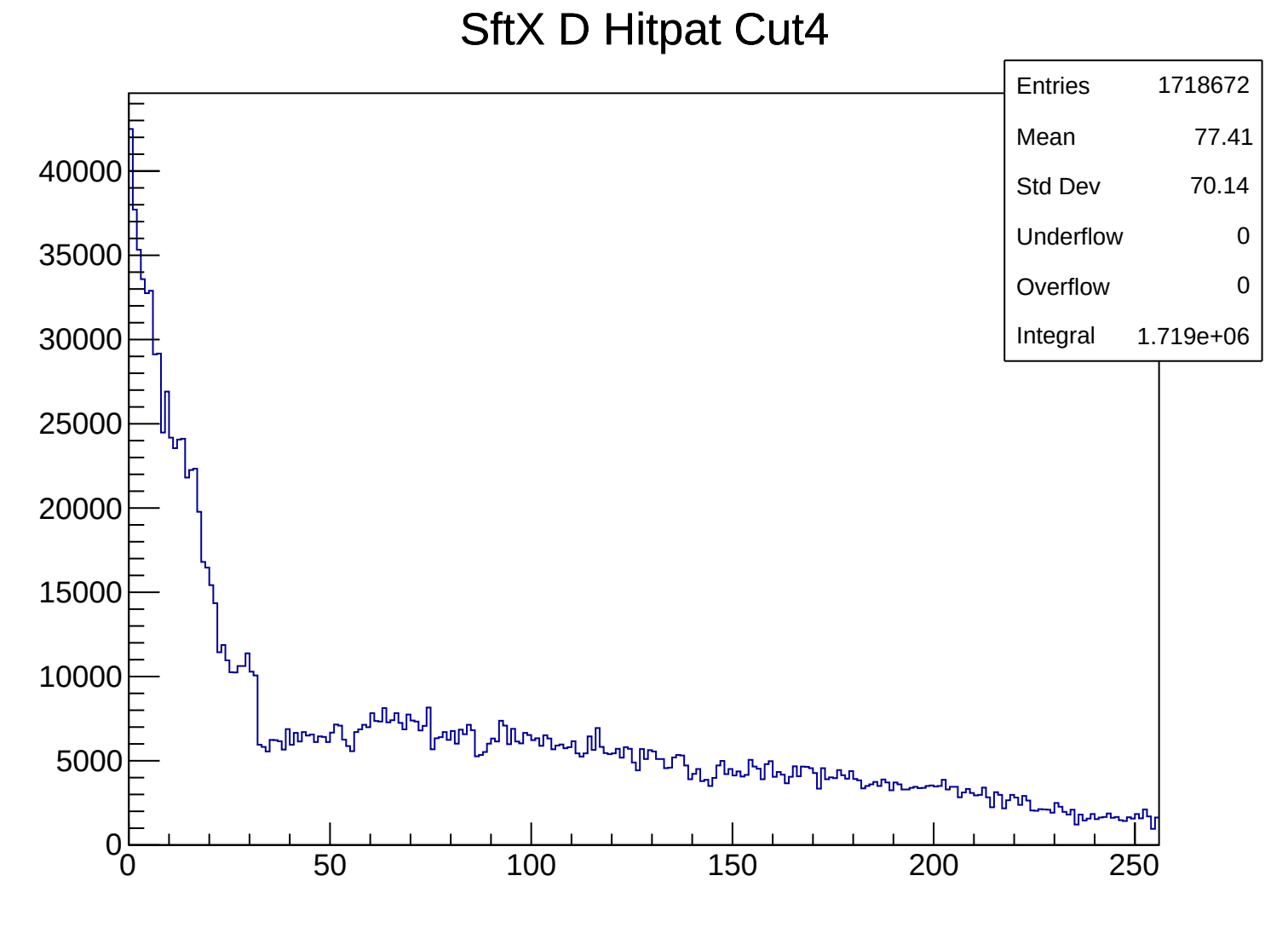
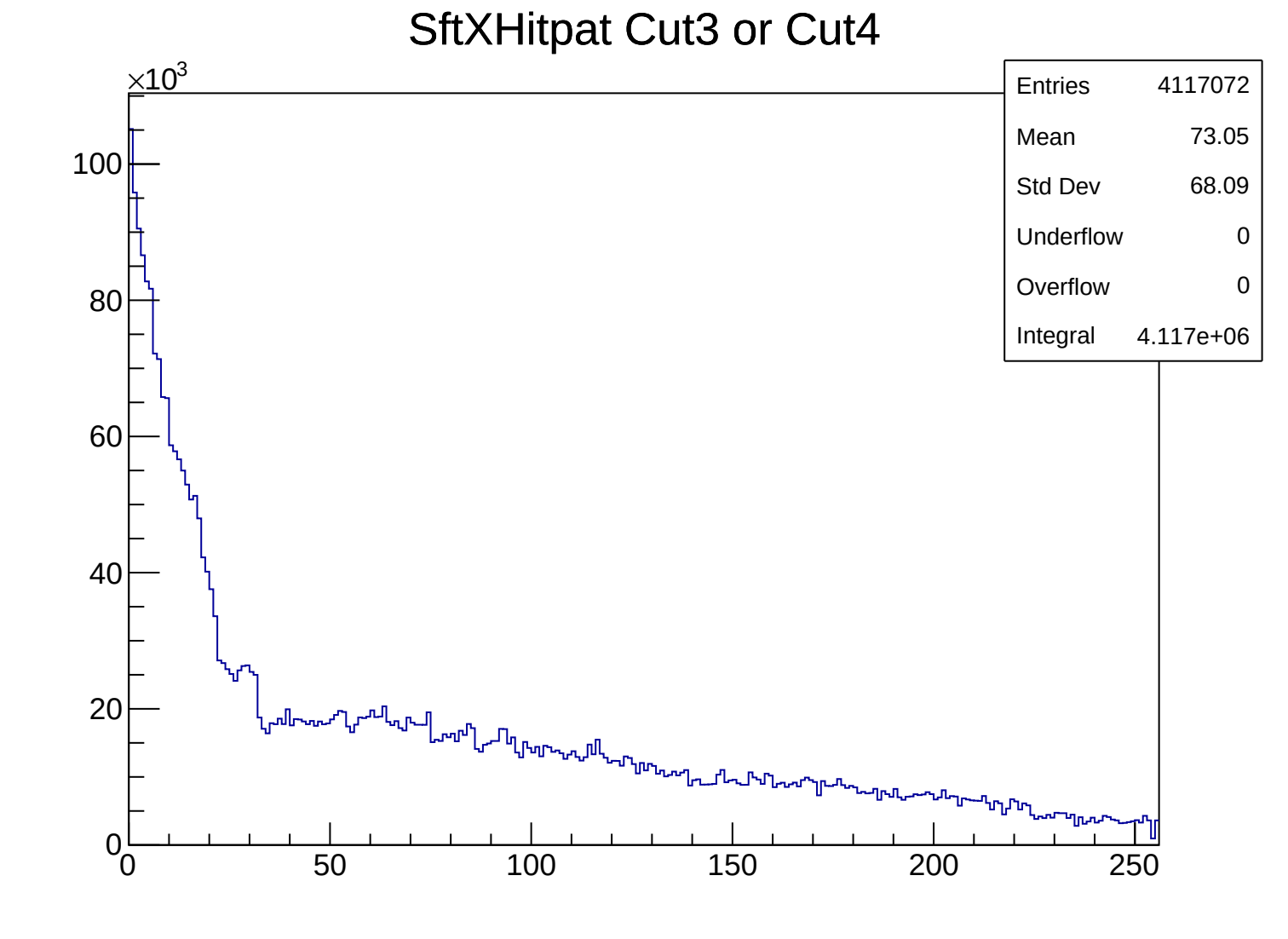
18
20
22
24

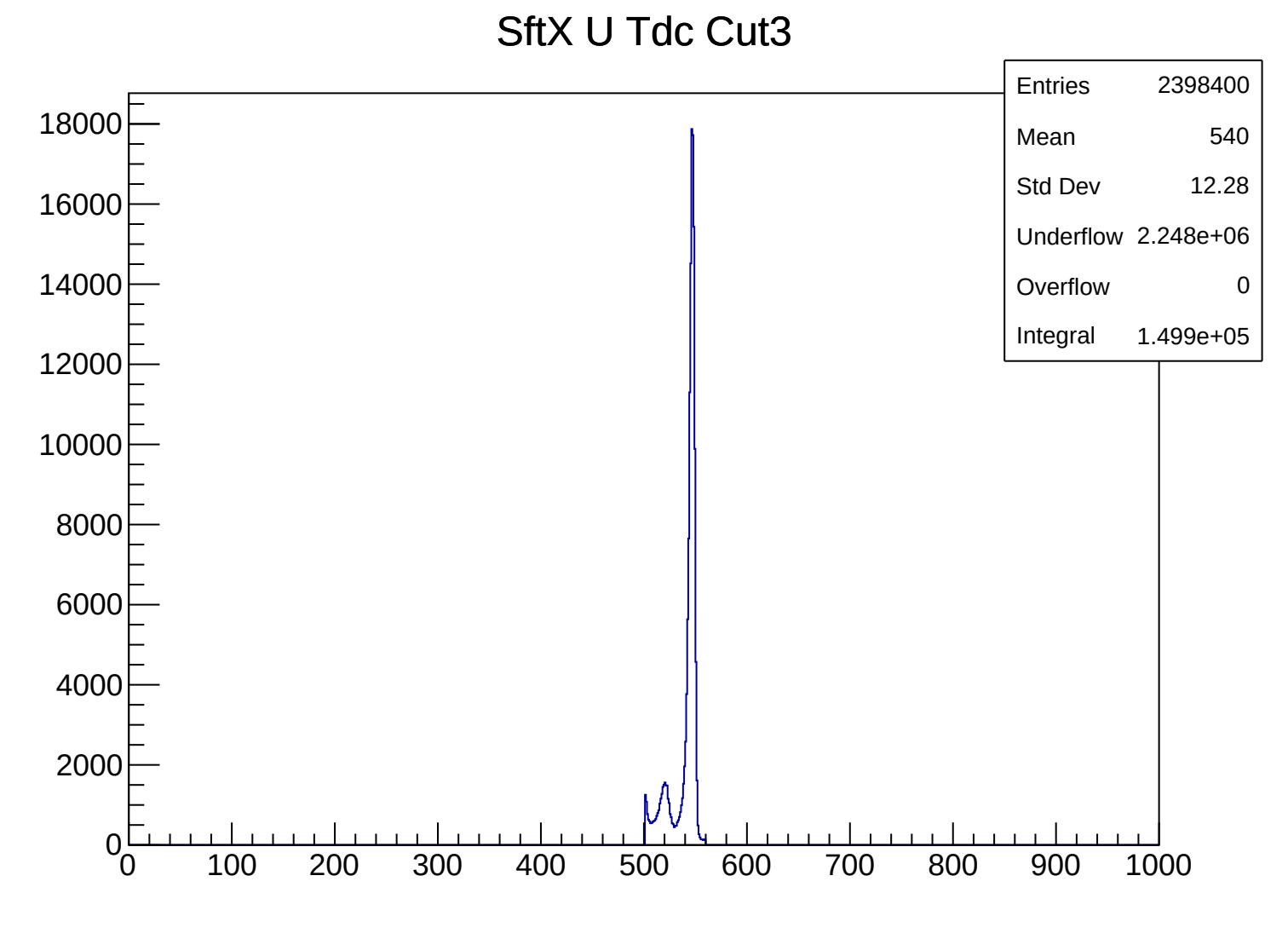

Sch Hitpat Cut2
Entries 101060
Mean 23.87
Std Dev 12.27
Underflow 0
Overflow 0
Integral 1.011e+05
7000
6000
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60

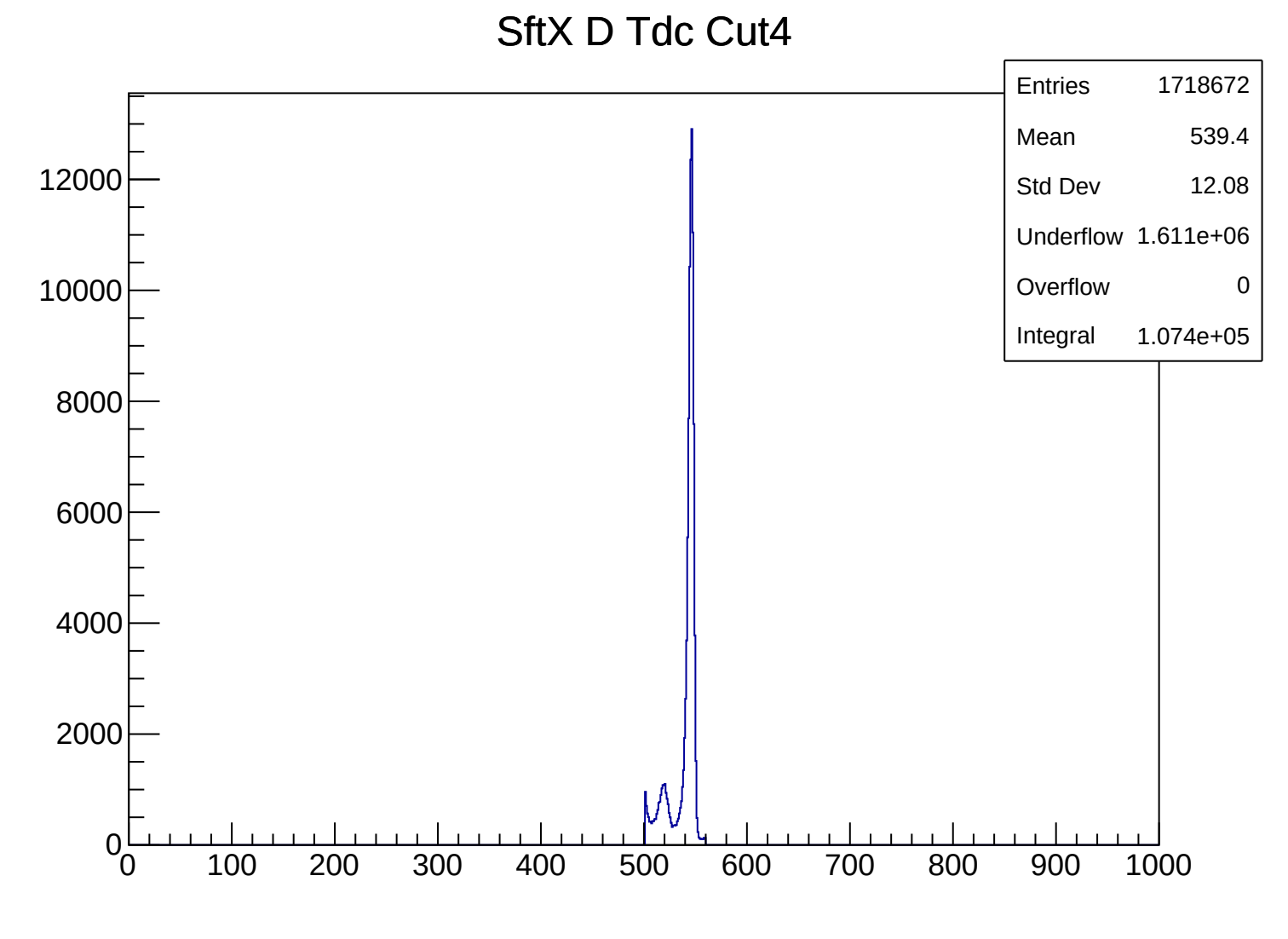

Sch Tdc Cut2
Entries 101060
Mean 466.6
Std Dev 6.966
Underflow 0
Overflow 0
Integral 1.011e+05
50000
40000
30000
20000
10000
0
0
100
200
300
400
500
600
700
800
900
1000

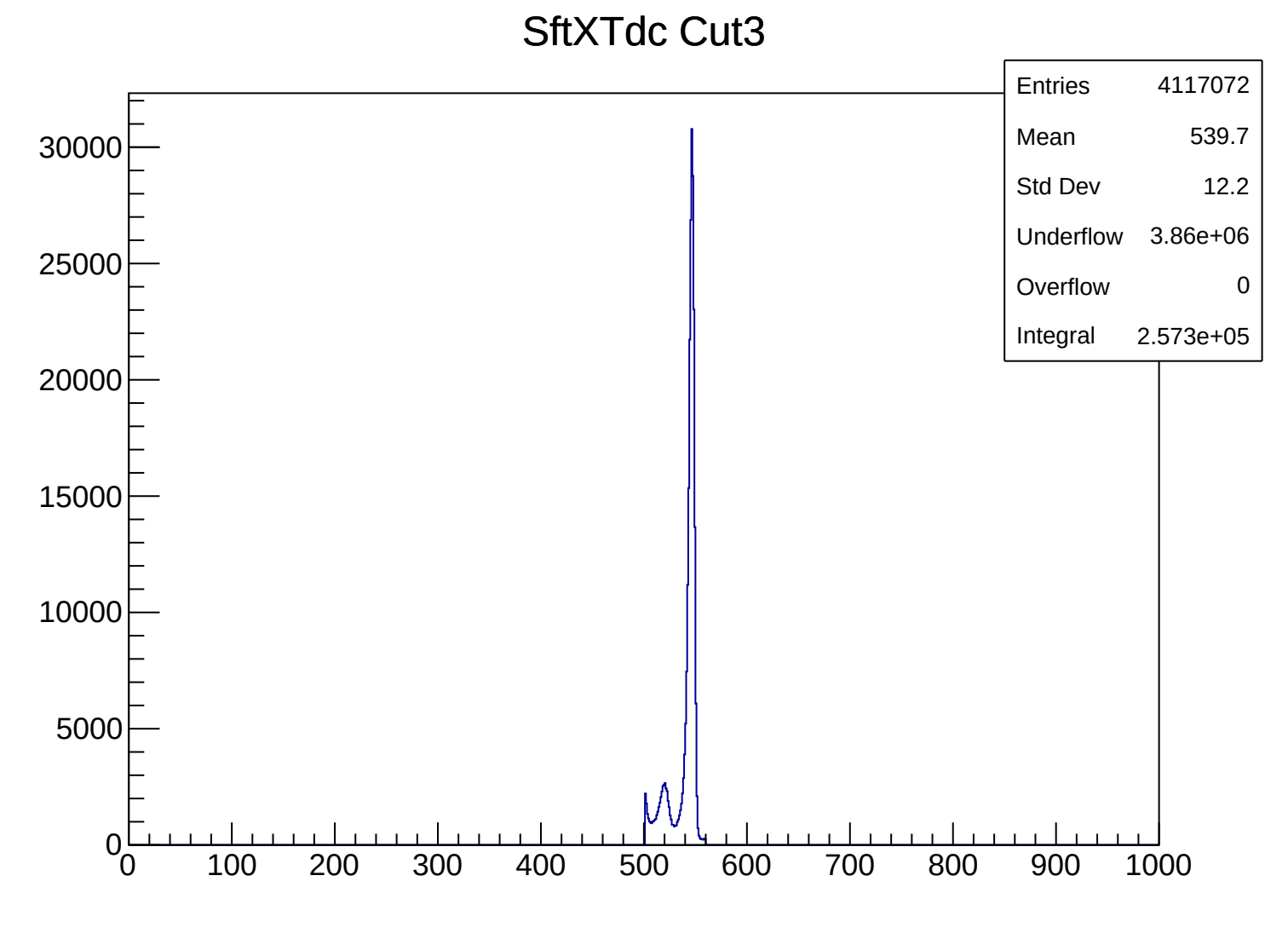

SftX U Hitpat Cut3
Entries 2398400
Mean 69.92
Std Dev 66.42
Underflow 0
Overflow 0
Integral 2.398e+06
60000
50000
40000
30000
20000
10000
0
0
50
100
150
200
250

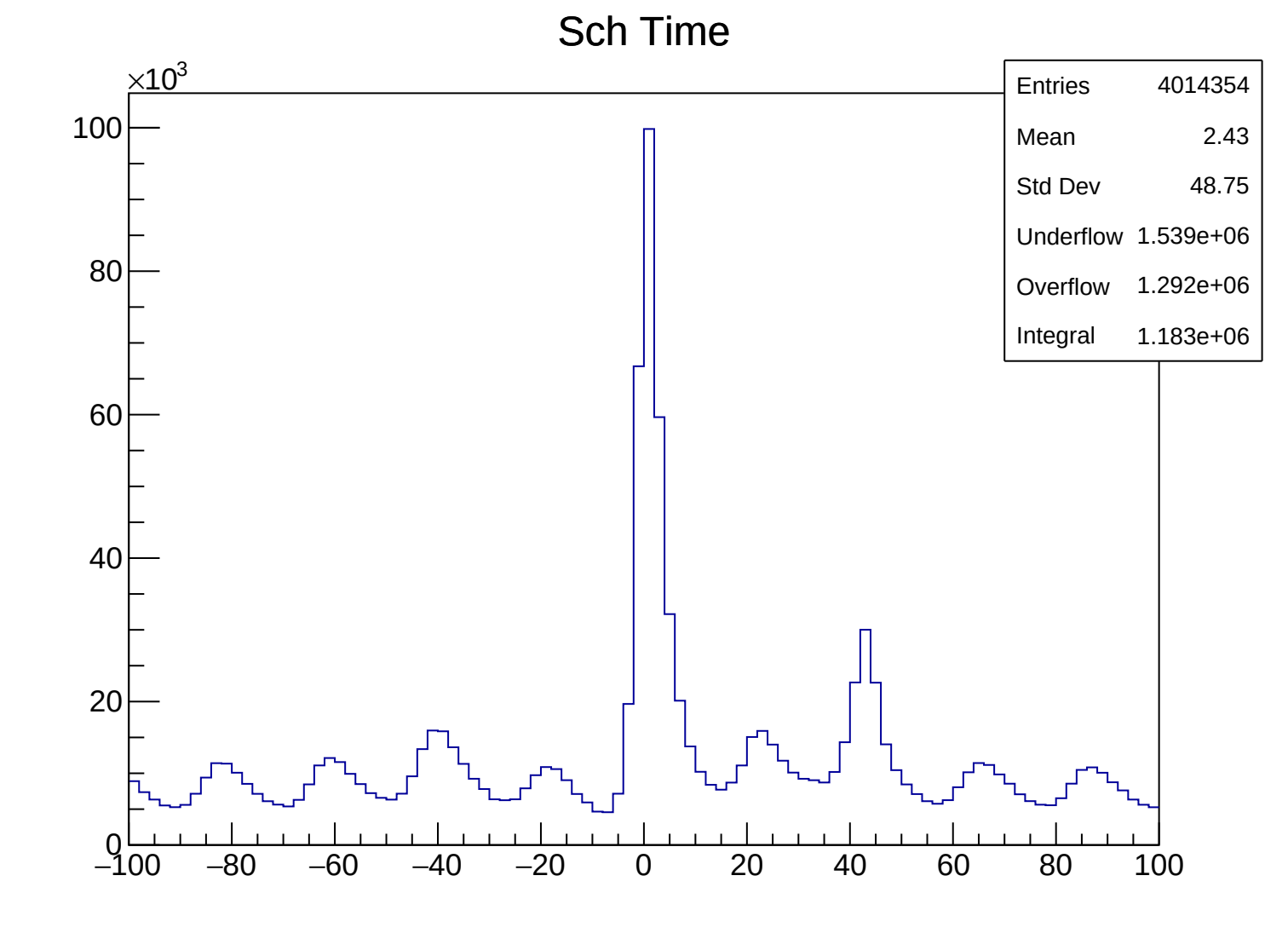

SftX D Hitpat Cut4
Entries 1718672
Mean 77.41
Std Dev 70.14
Underflow 0
Overflow 0
Integral 1.719e+06
40000
35000
30000
25000
20000
15000
10000
5000
0
0
50
100
150
200
250

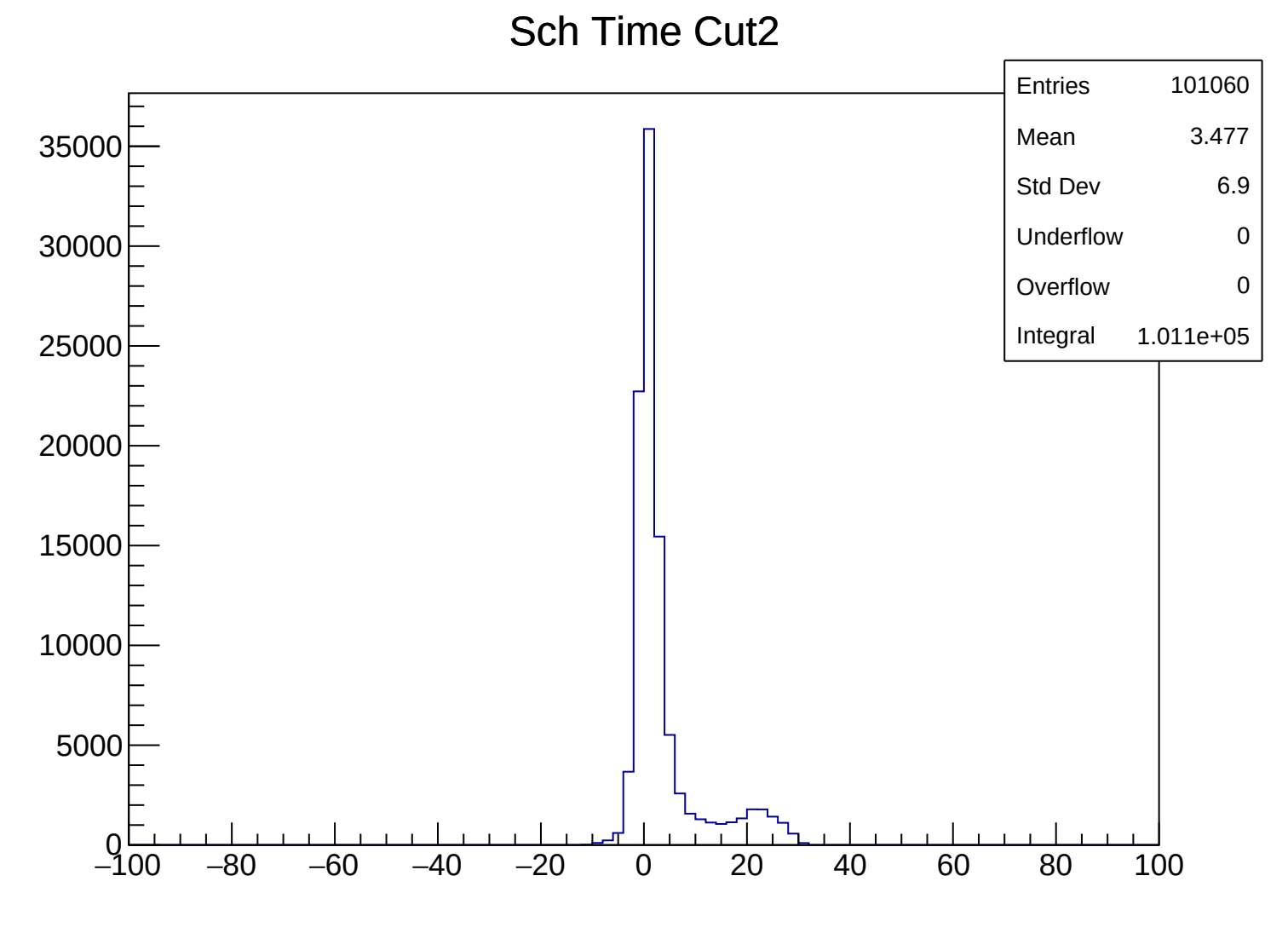

SftXHitpat Cut3 or Cut4
×10^3
100
80
60
40
20
0
0
50
100
150
200
250
Entries 4117072
Mean 73.05
Std Dev 68.09
Underflow 0
Overflow 0
Integral 4.117e+06

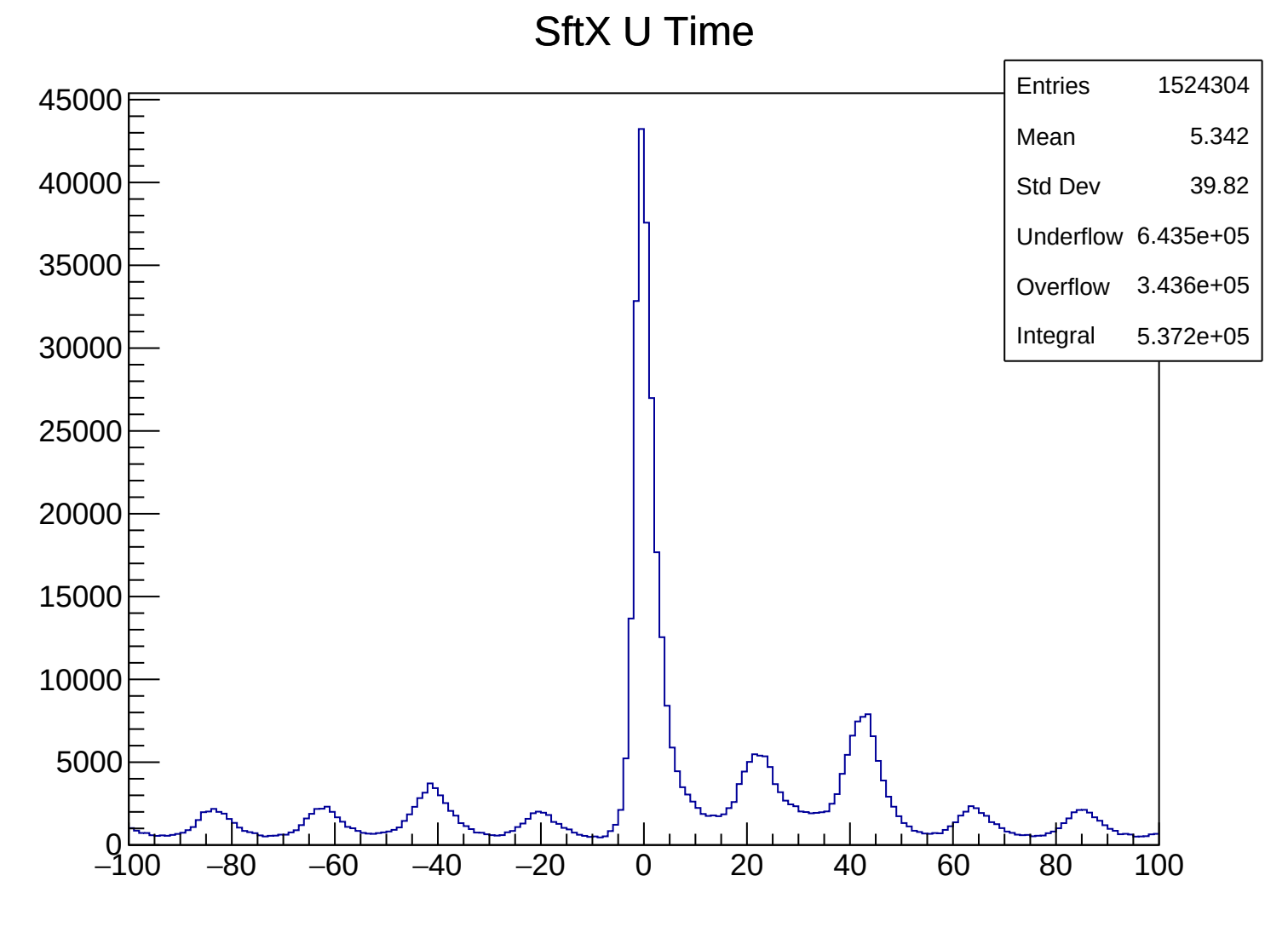

SftX U Tdc Cut3
Entries 2398400
Mean 540
Std Dev 12.28
Underflow 2.248e+06
Overflow 0
Integral 1.499e+05
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
100
200
300
400
500
600
700
800
900
1000

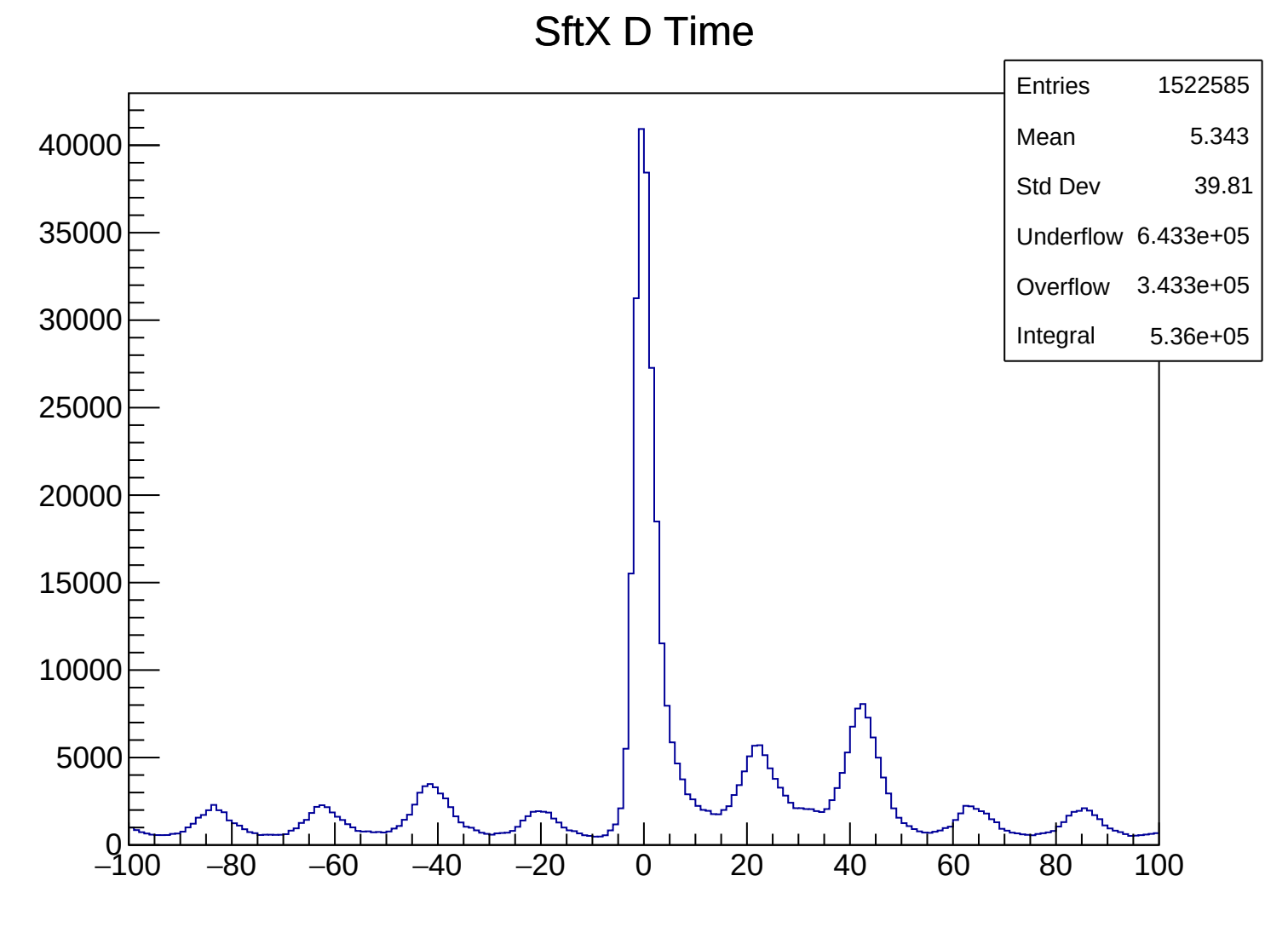

SftX D Tdc Cut4
Entries 1718672
Mean 539.4
Std Dev 12.08
Underflow 1.611e+06
Overflow 0
Integral 1.074e+05
12000
10000
8000
6000
4000
2000
0
0
100
200
300
400
500
600
700
800
900
1000

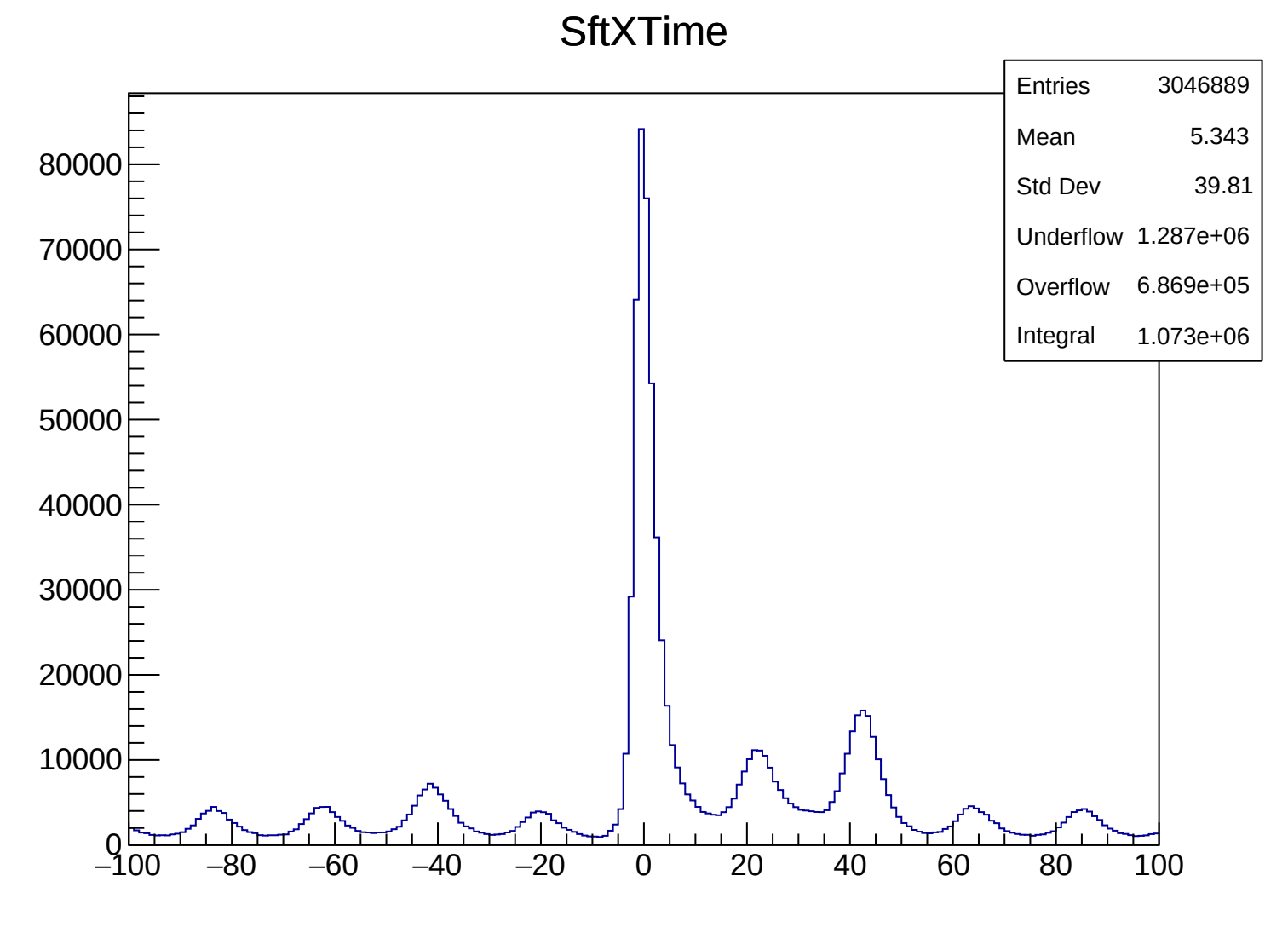

SftXTdc Cut3
Entries 4117072
Mean 539.7
Std Dev 12.2
Underflow 3.86e+06
Overflow 0
Integral 2.573e+05
30000
25000
20000
15000
10000
5000
0
0
100
200
300
400
500
600
700
800
900
1000

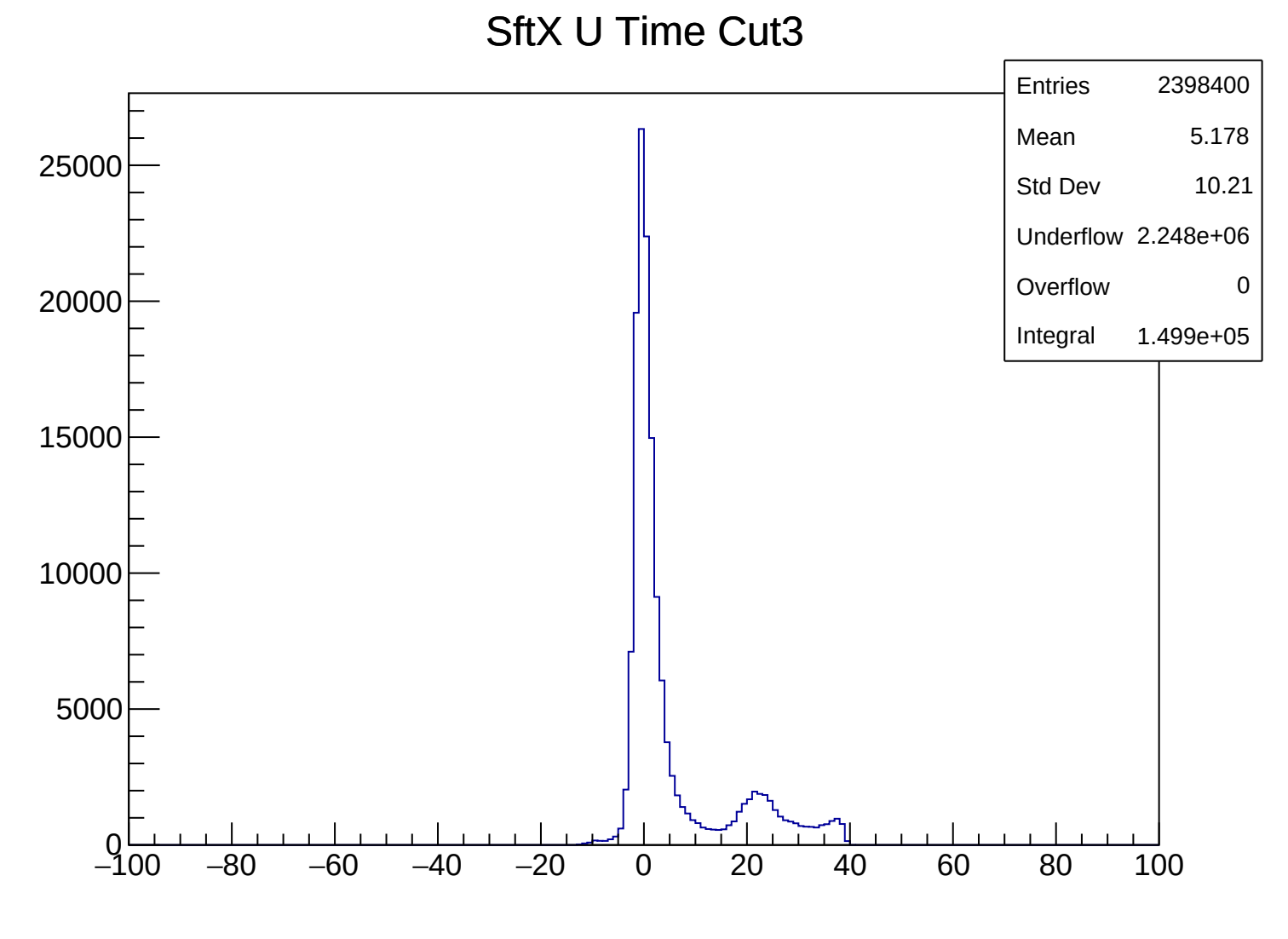

Sch Time
×10^3
100
80
60
40
20
0
–100
–80
–60
–40
–20
0
20
40
60
80
100
Entries 4014354
Mean 2.43
Std Dev 48.75
Underflow 1.539e+06
Overflow 1.292e+06
Integral 1.183e+06

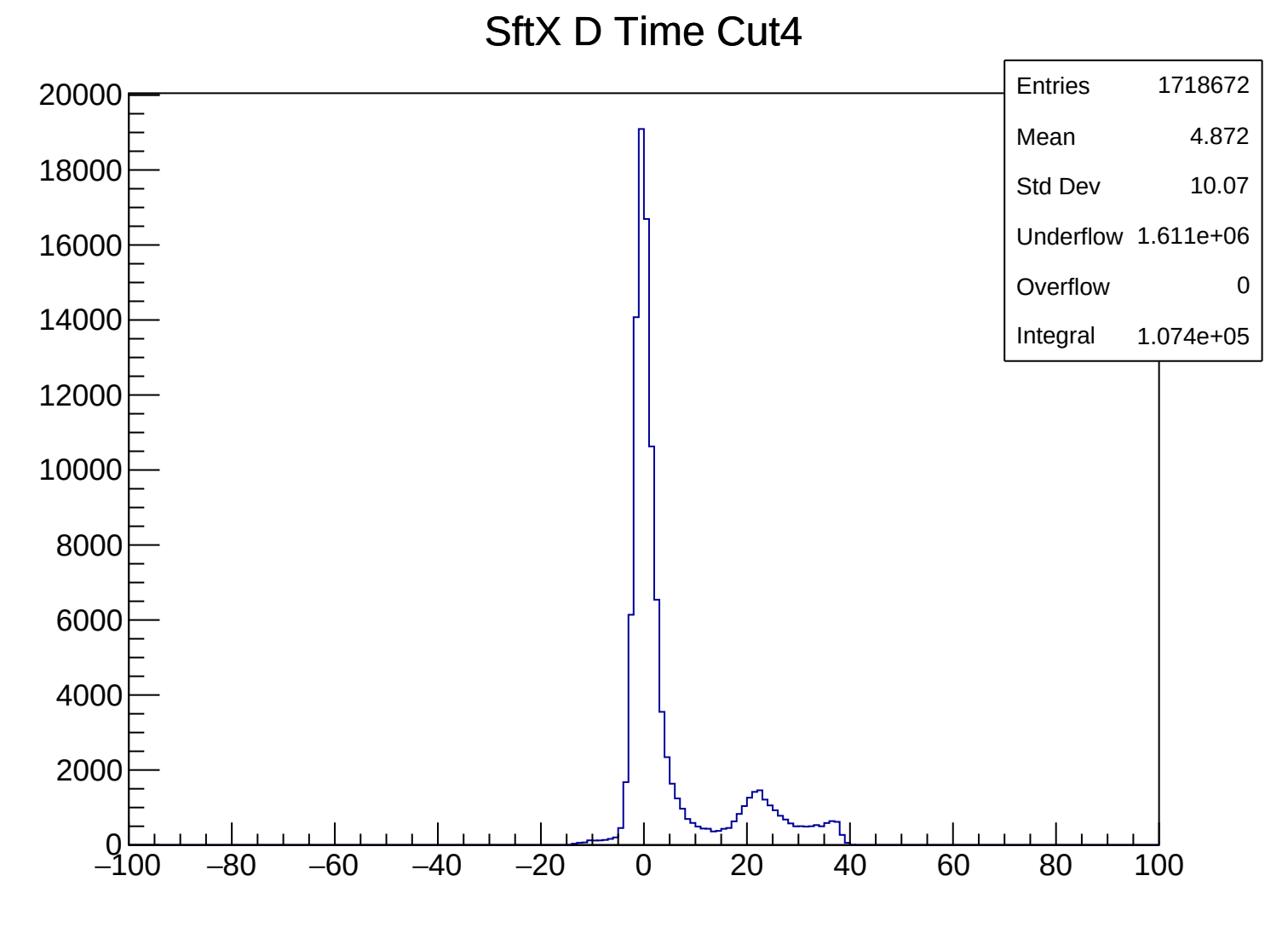

Sch Time Cut2
Entries 101060
Mean 3.477
Std Dev 6.9
Underflow 0
Overflow 0
Integral 1.011e+05
35000
30000
25000
20000
15000
10000
5000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

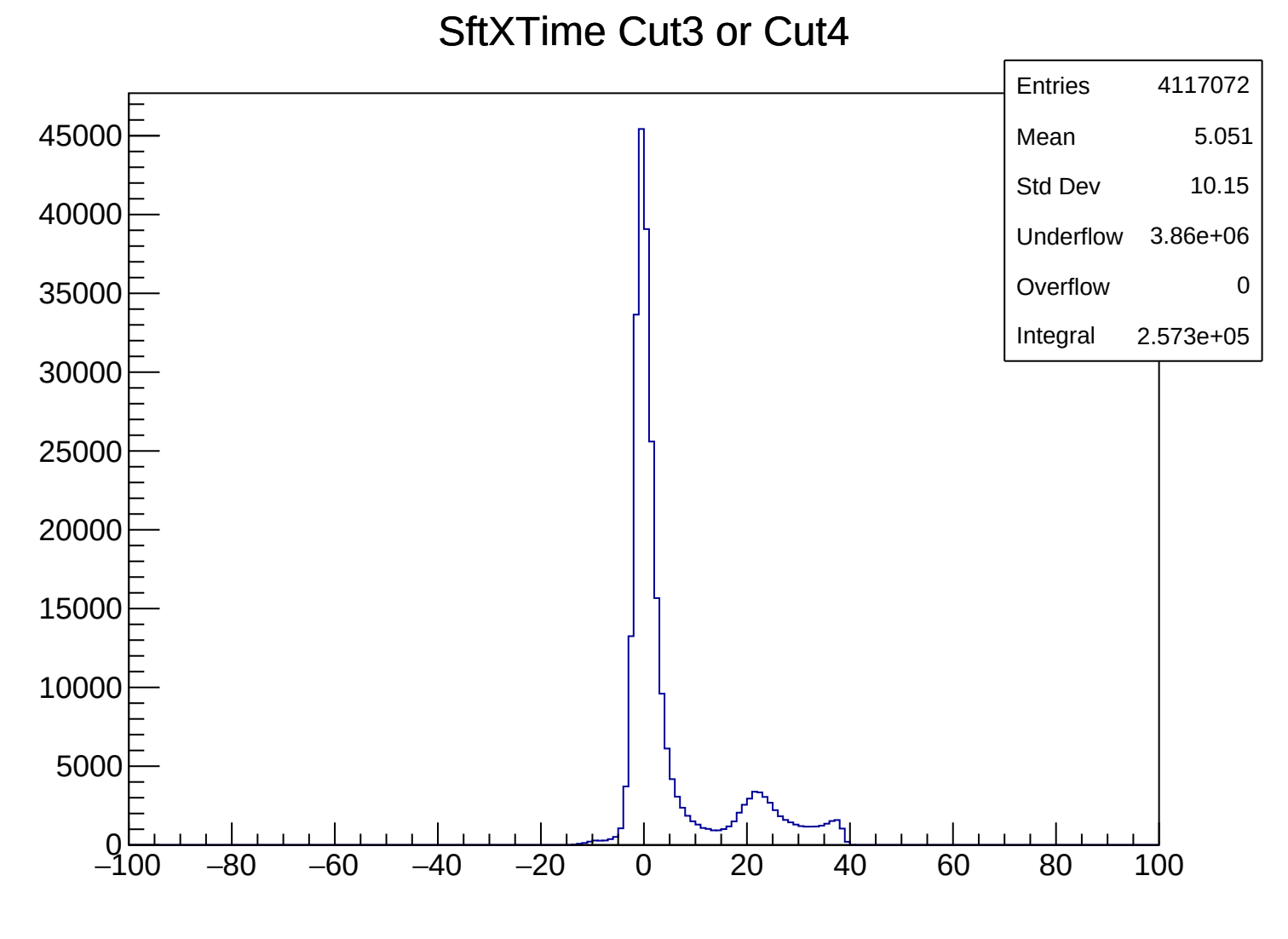

SftX U Time
Entries 1524304
Mean 5.342
Std Dev 39.82
Underflow 6.435e+05
Overflow 3.436e+05
Integral 5.372e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100


SftX D Time
Entries 1522585
Mean 5.343
Std Dev 39.81
Underflow 6.433e+05
Overflow 3.433e+05
Integral 5.36e+05
40000
35000
30000
25000
20000
15000
10000
5000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100


SftXTime
Entries 3046889
Mean 5.343
Std Dev 39.81
Underflow 1.287e+06
Overflow 6.869e+05
Integral 1.073e+06
80000
70000
60000
50000
40000
30000
20000
10000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100


SftX U Time Cut3
Entries 2398400
Mean 5.178
Std Dev 10.21
Underflow 2.248e+06
Overflow 0
Integral 1.499e+05
25000
20000
15000
10000
5000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100


SftX D Time Cut4
Entries 1718672
Mean 4.872
Std Dev 10.07
Underflow 1.611e+06
Overflow 0
Integral 1.074e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100


SftXTime Cut3 or Cut4
Entries 4117072
Mean 5.051
Std Dev 10.15
Underflow 3.86e+06
Overflow 0
Integral 2.573e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
–100
–80
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–20
0
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40
60
80
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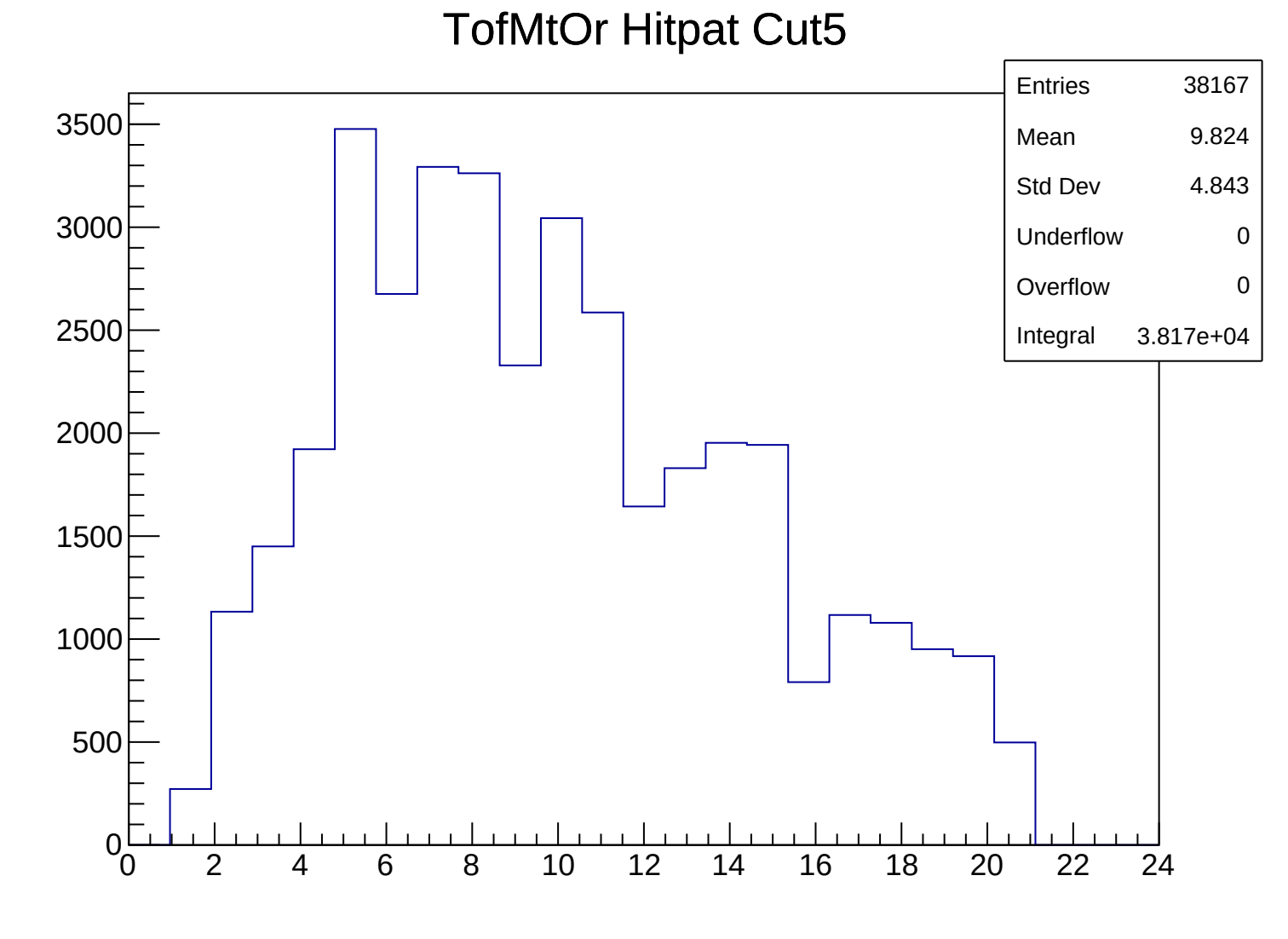
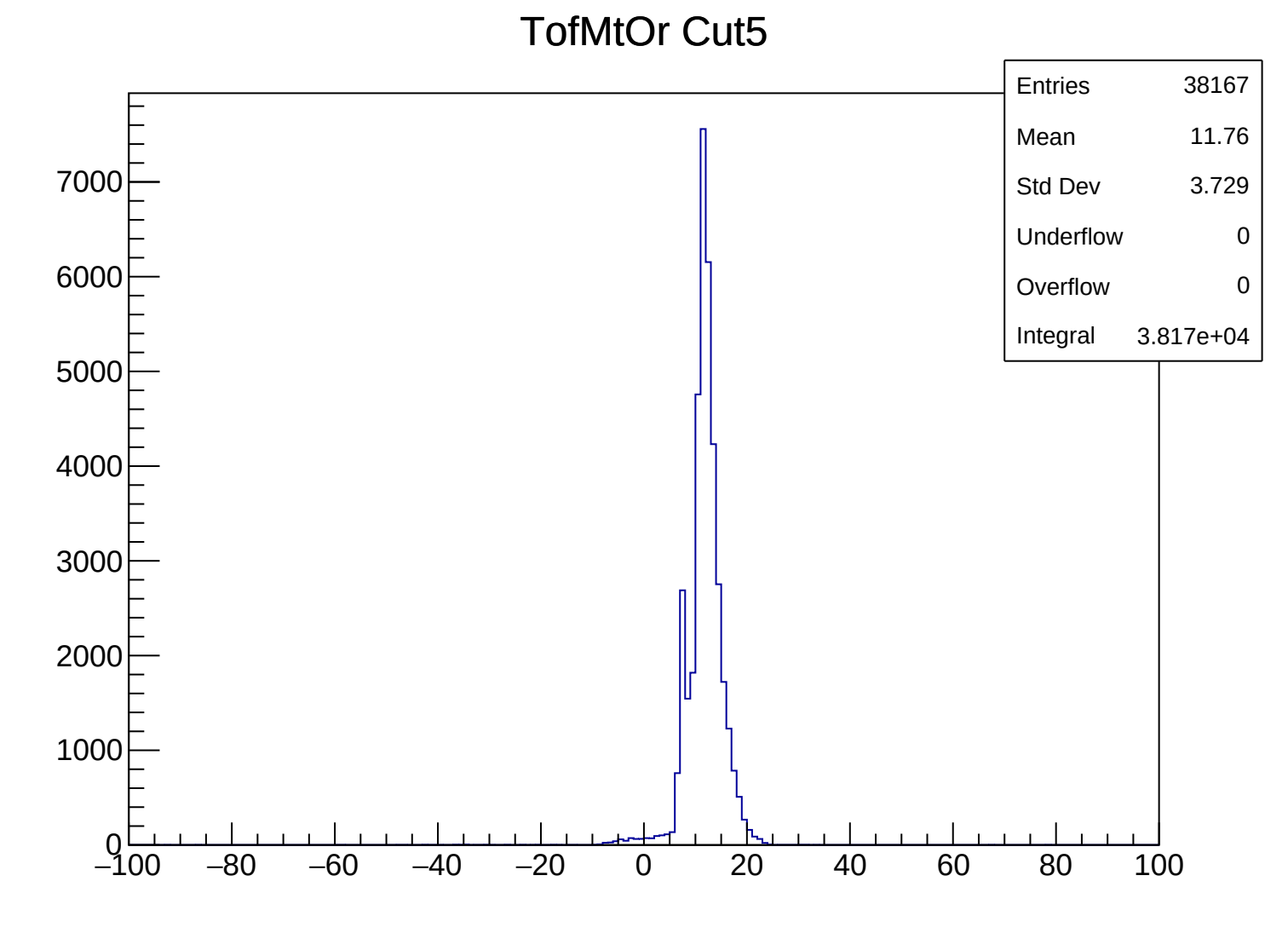
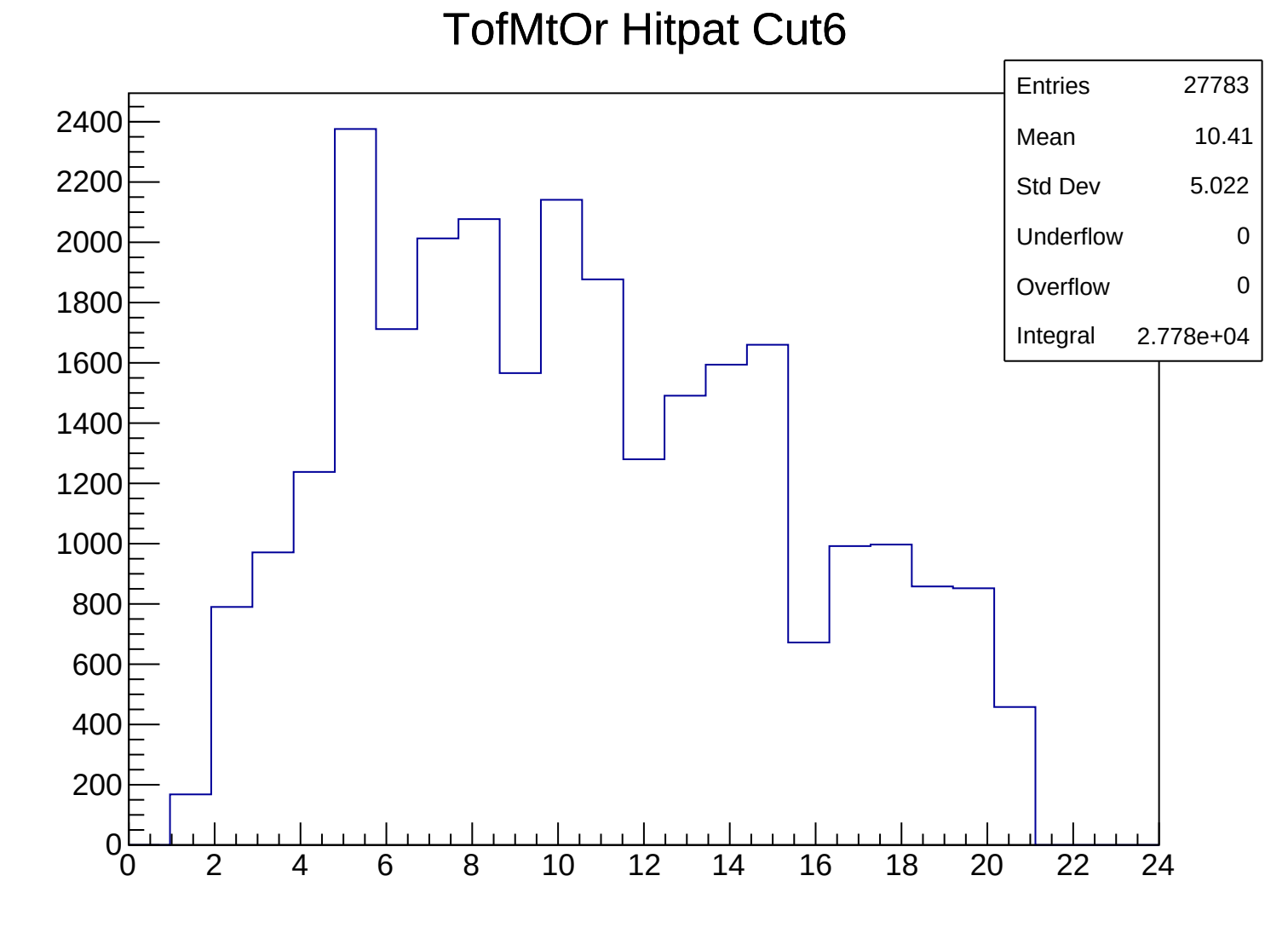
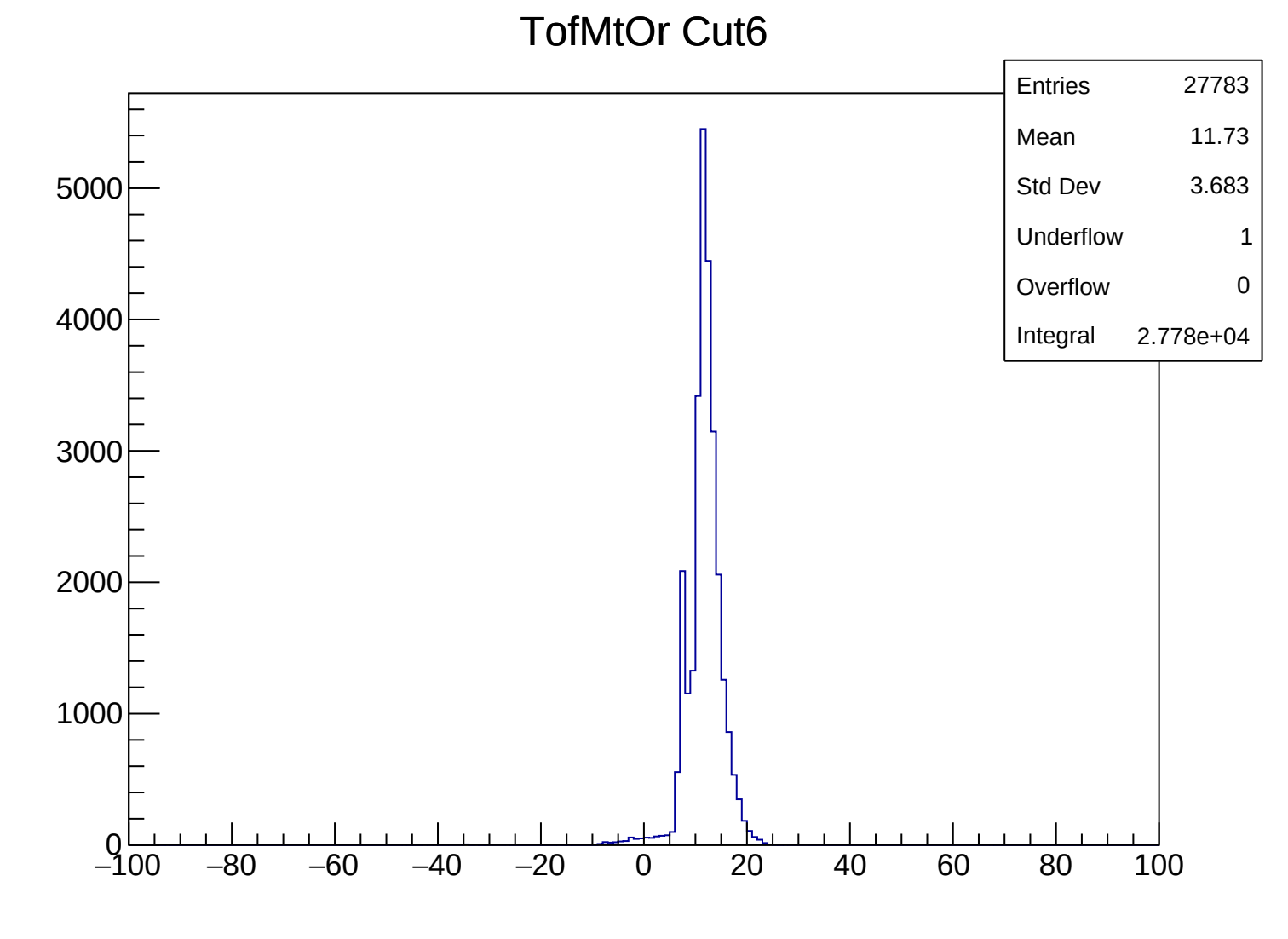
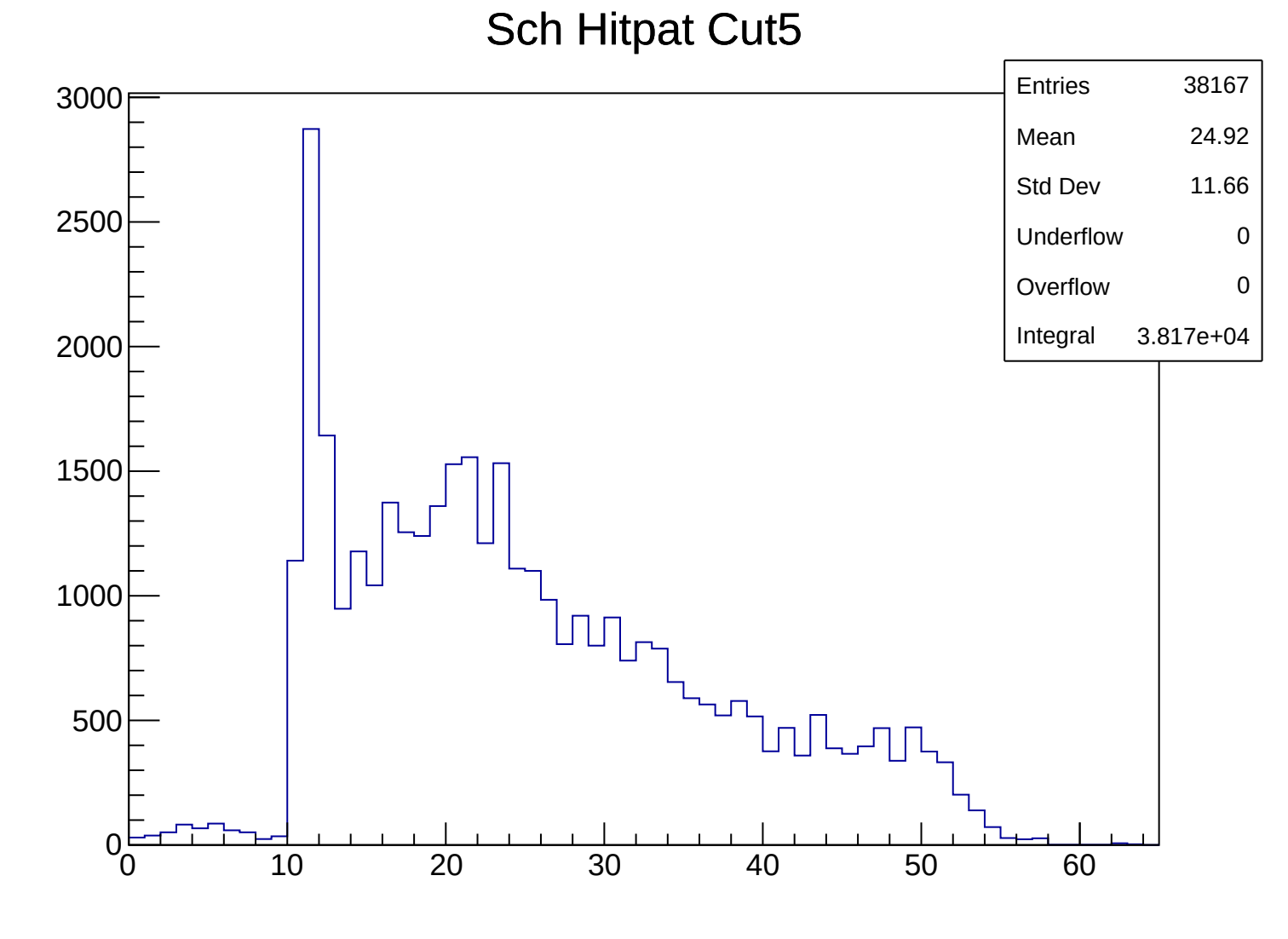
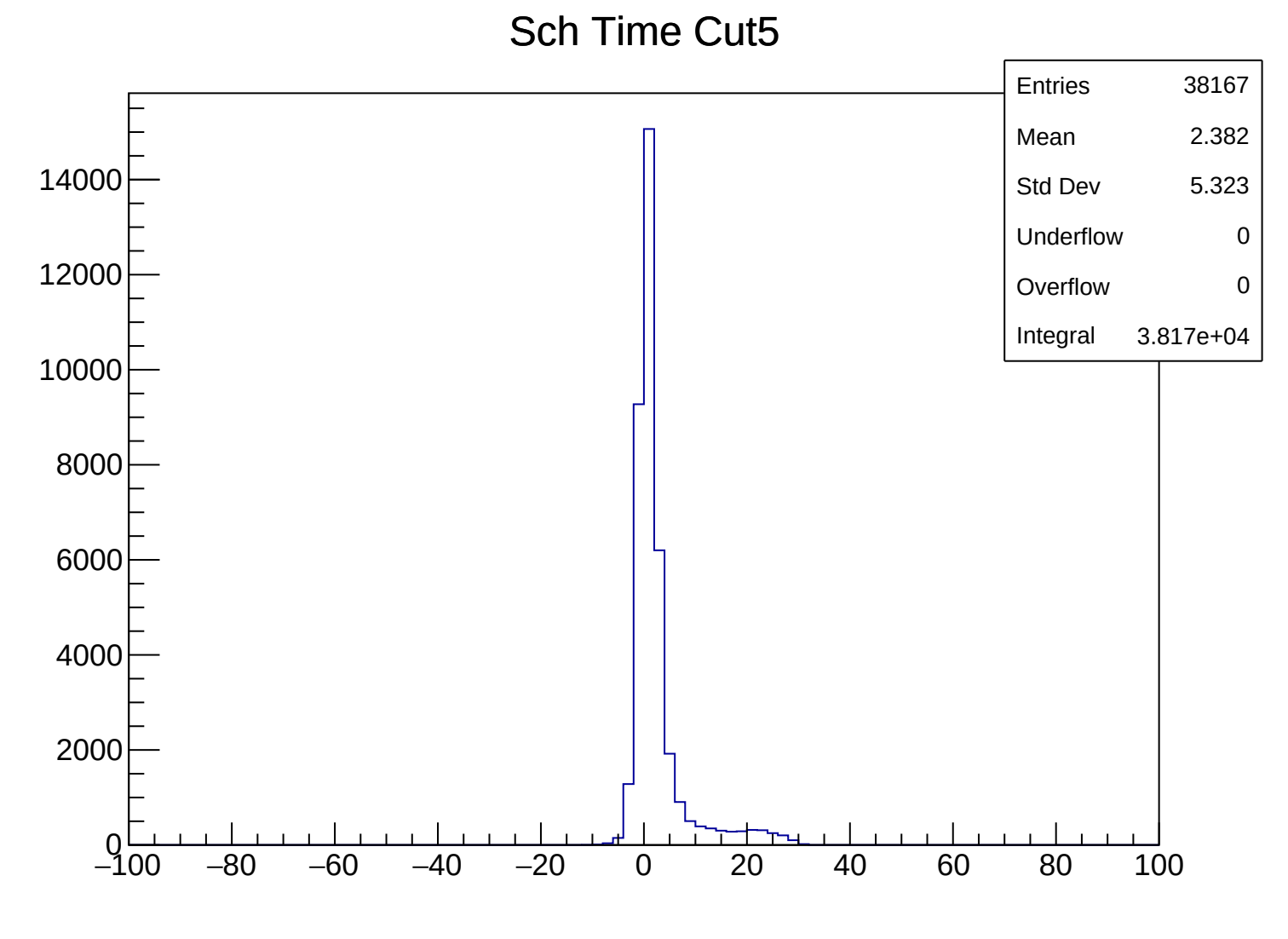

TofMtOr Hitpat Cut5
Entries 38167
Mean 9.824
Std Dev 4.843
Underflow 0
Overflow 0
Integral 3.817e+04
3500
3000
2500
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
18
20
22
24

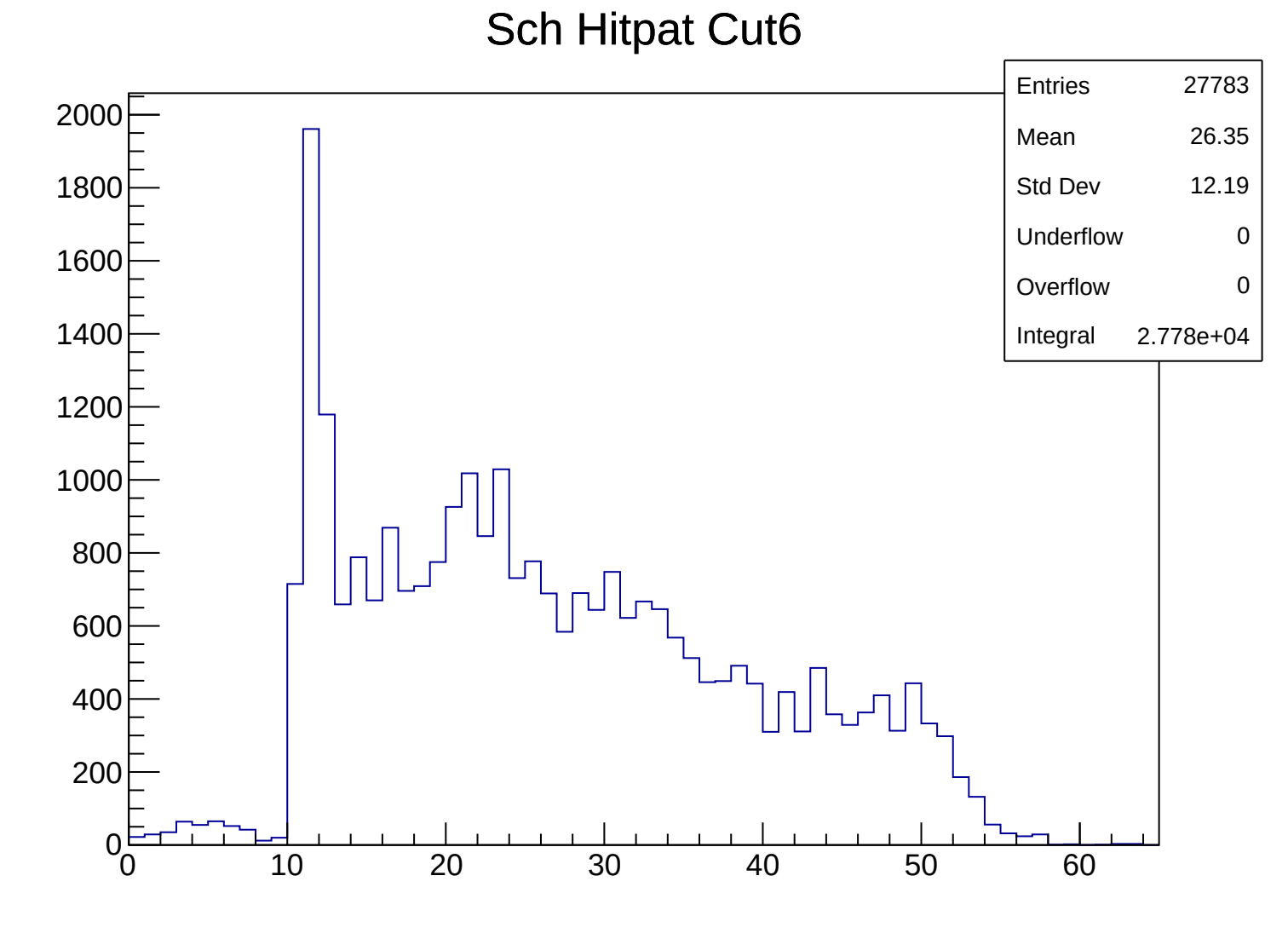

TofMtOr Cut5
Entries 38167
Mean 11.76
Std Dev 3.729
Underflow 0
Overflow 0
Integral 3.817e+04
7000
6000
5000
4000
3000
2000
1000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

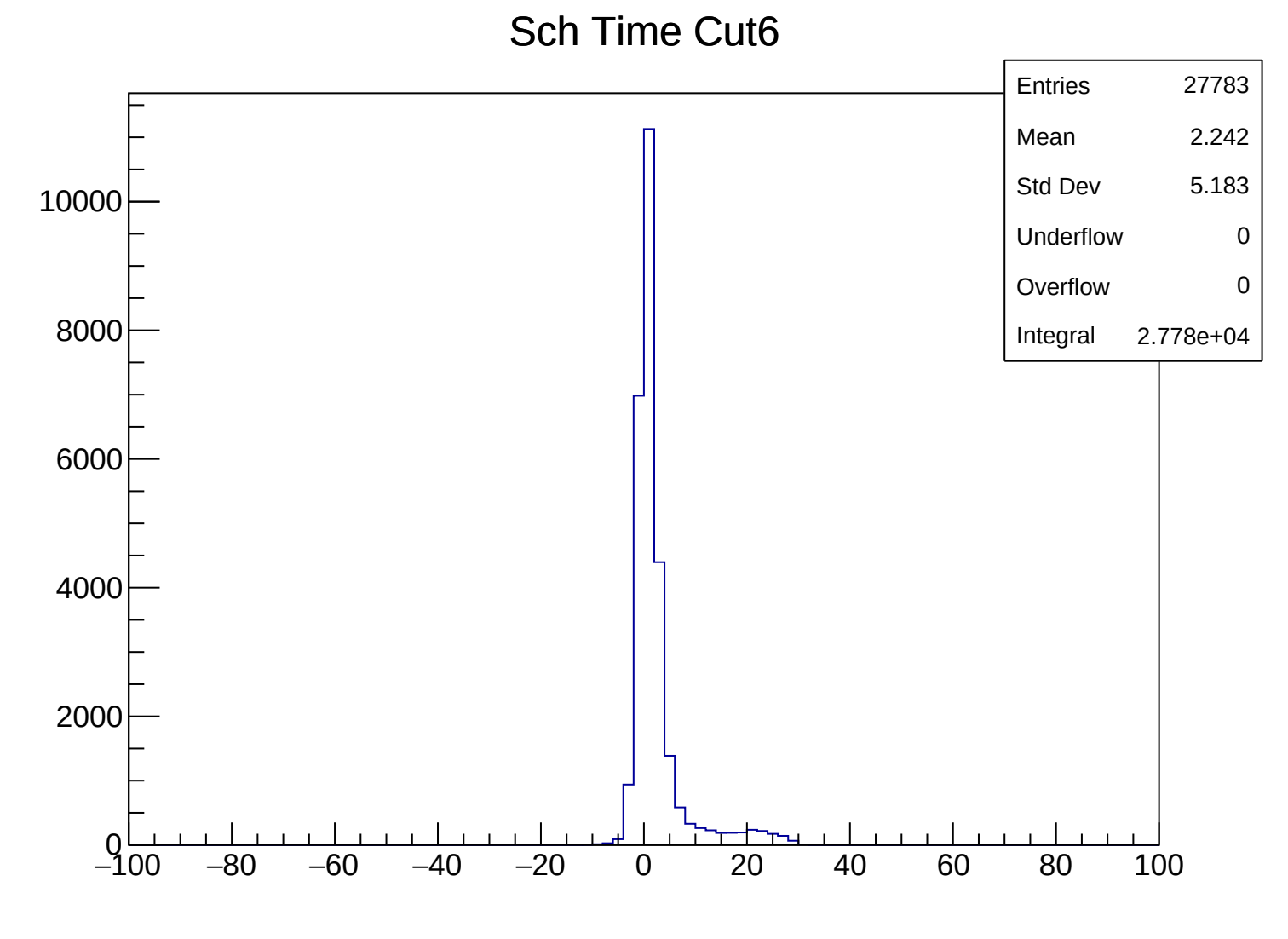

TofMtOr Hitpat Cut6
Entries 27783
Mean 10.41
Std Dev 5.022
Underflow 0
Overflow 0
Integral 2.778e+04
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20
22
24

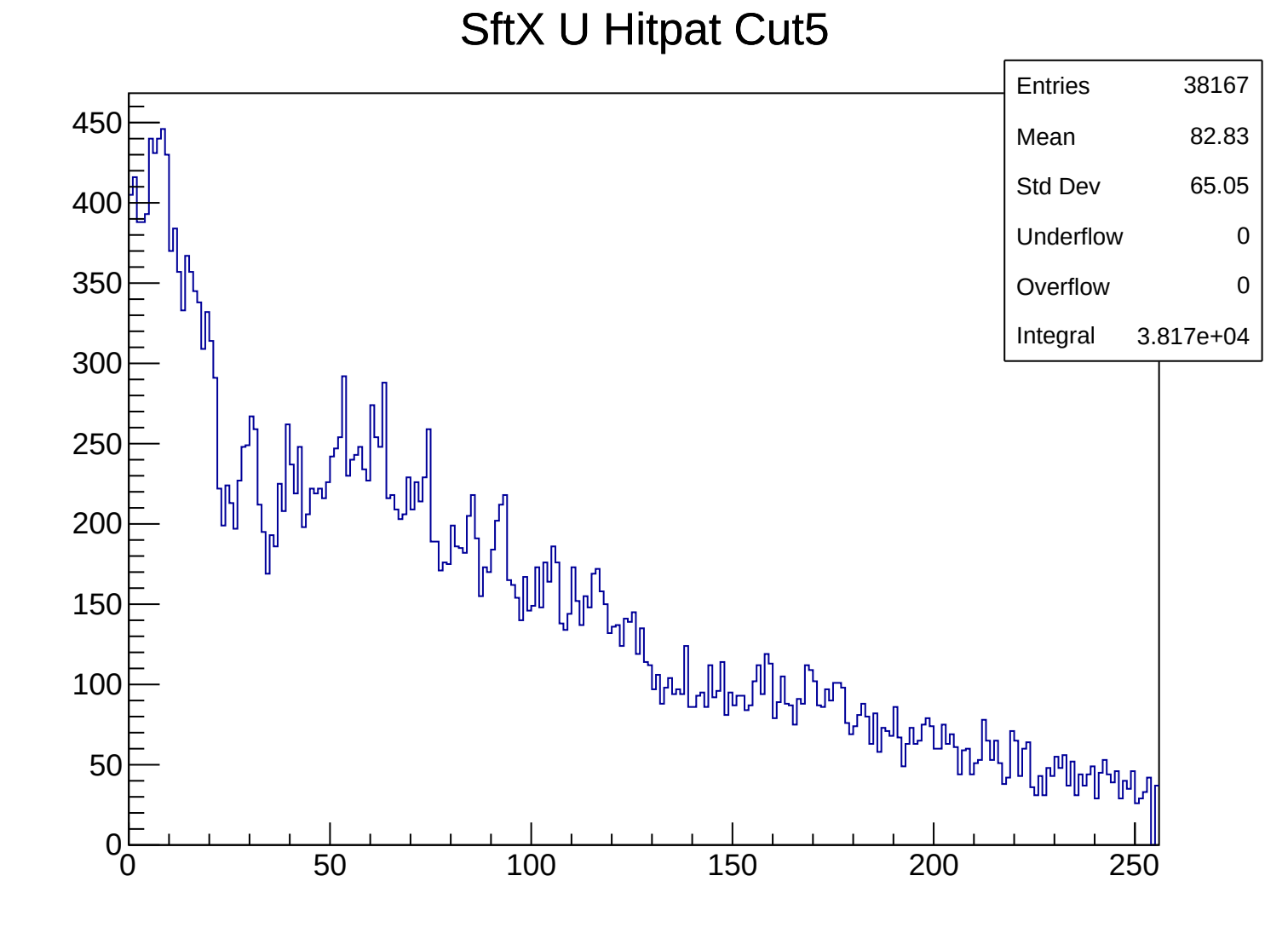

TofMtOr Cut6
Entries 27783
Mean 11.73
Std Dev 3.683
Underflow 1
Overflow 0
Integral 2.778e+04
5000
4000
3000
2000
1000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

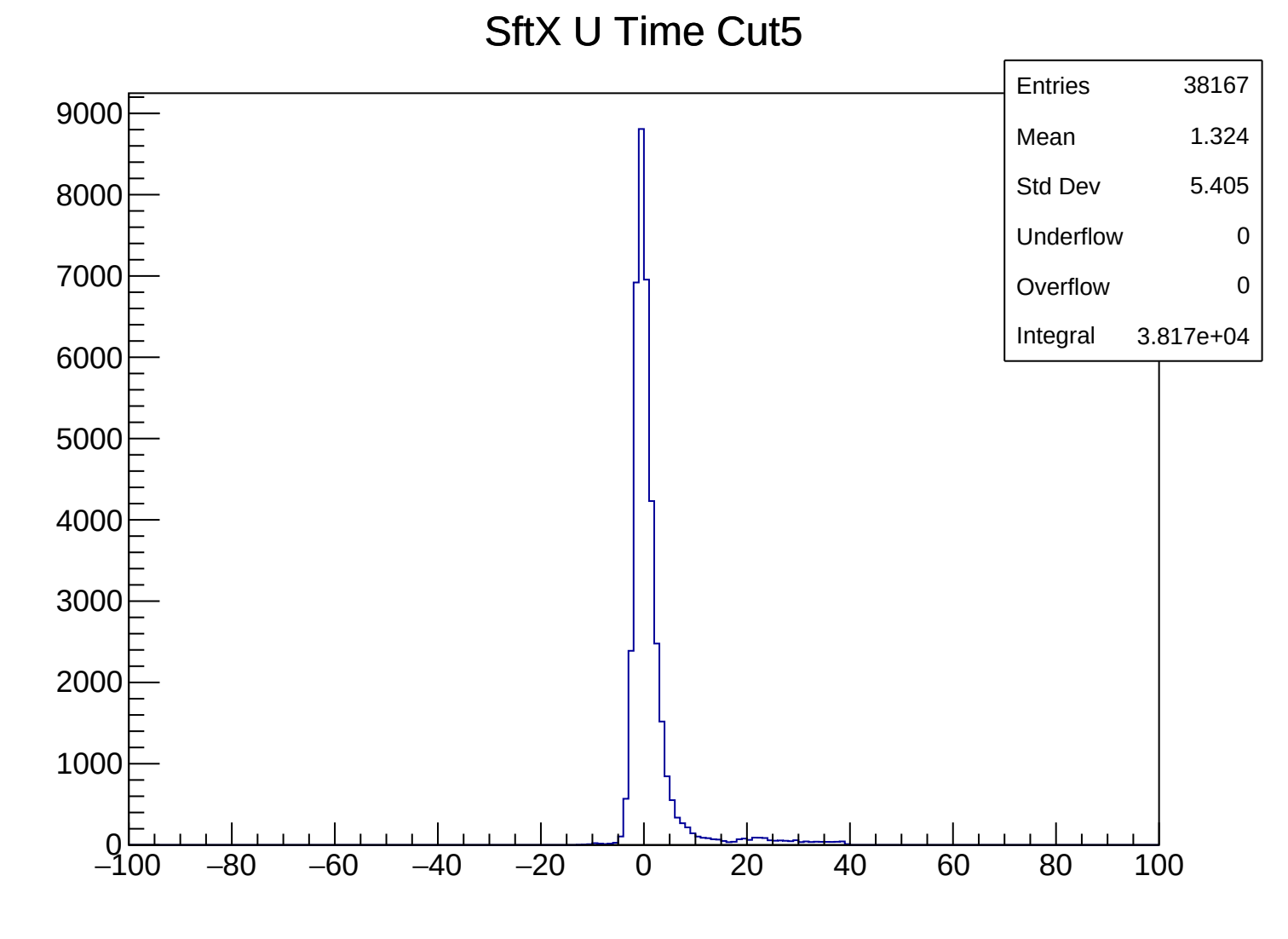

Sch Hitpat Cut5
Entries 38167
Mean 24.92
Std Dev 11.66
Underflow 0
Overflow 0
Integral 3.817e+04
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60

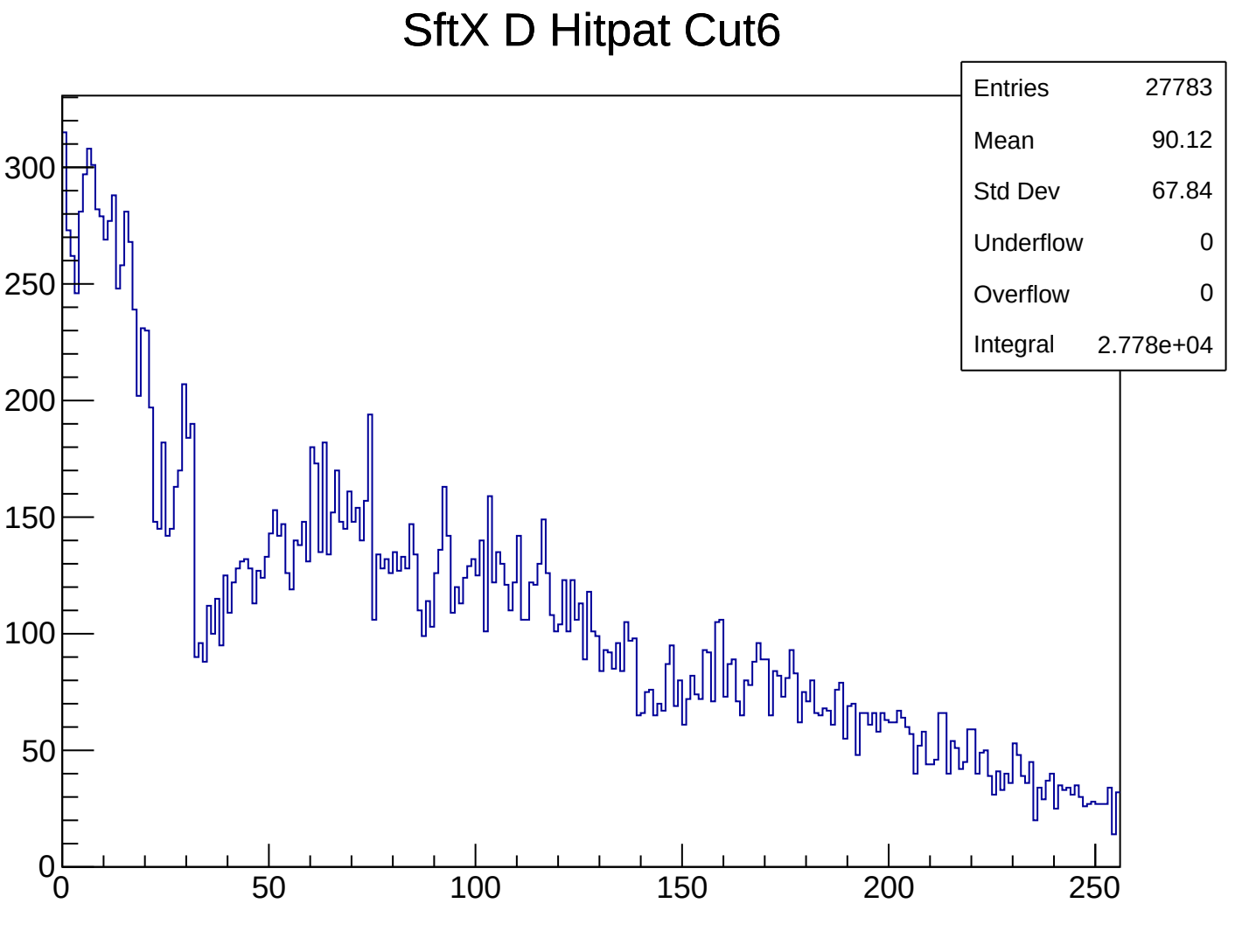

Sch Time Cut5
Entries 38167
Mean 2.382
Std Dev 5.323
Underflow 0
Overflow 0
Integral 3.817e+04
14000
12000
10000
8000
6000
4000
2000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

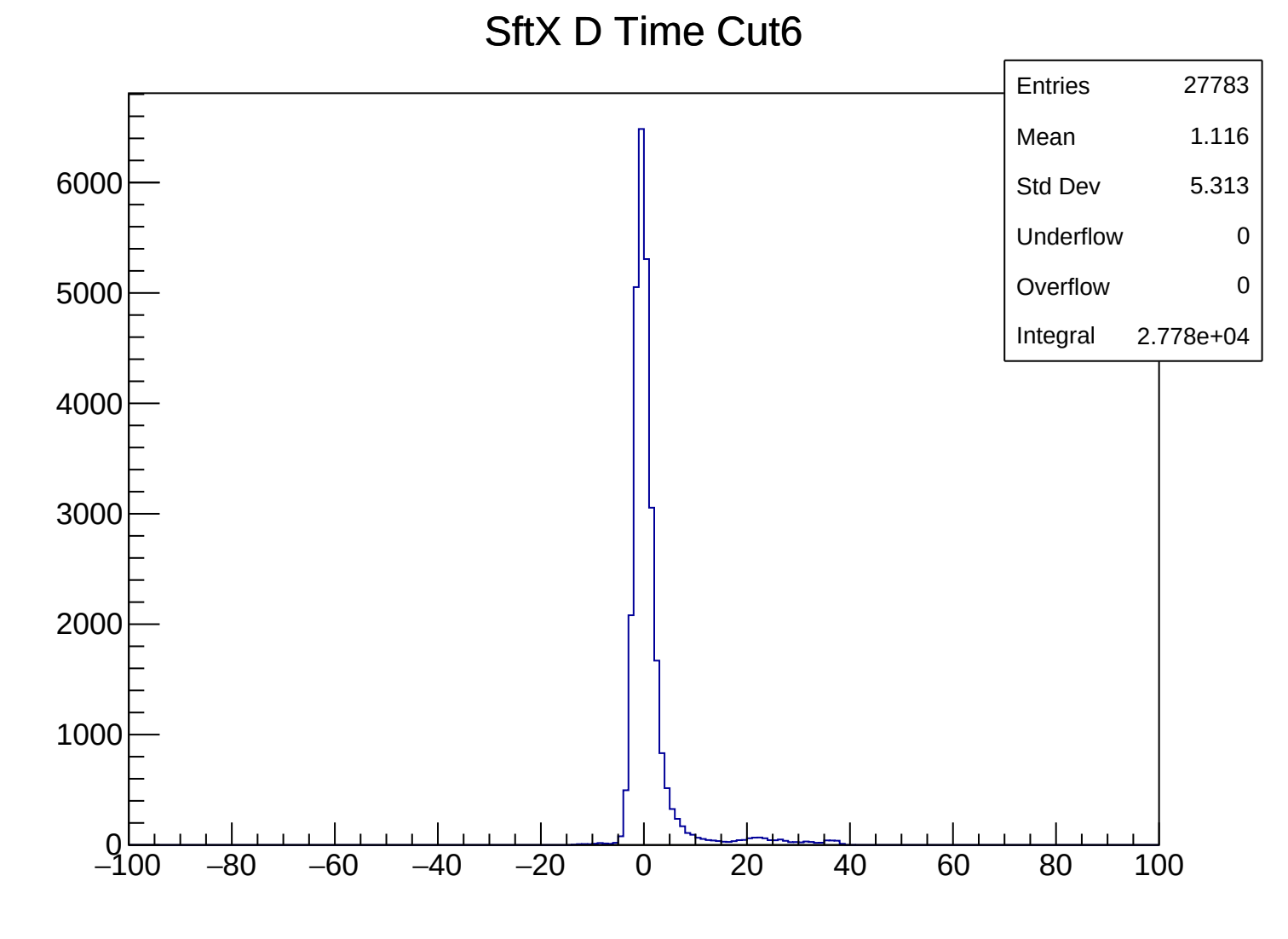

Sch Hitpat Cut6
Entries 27783
Mean 26.35
Std Dev 12.19
Underflow 0
Overflow 0
Integral 2.778e+04
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
10
20
30
40
50
60

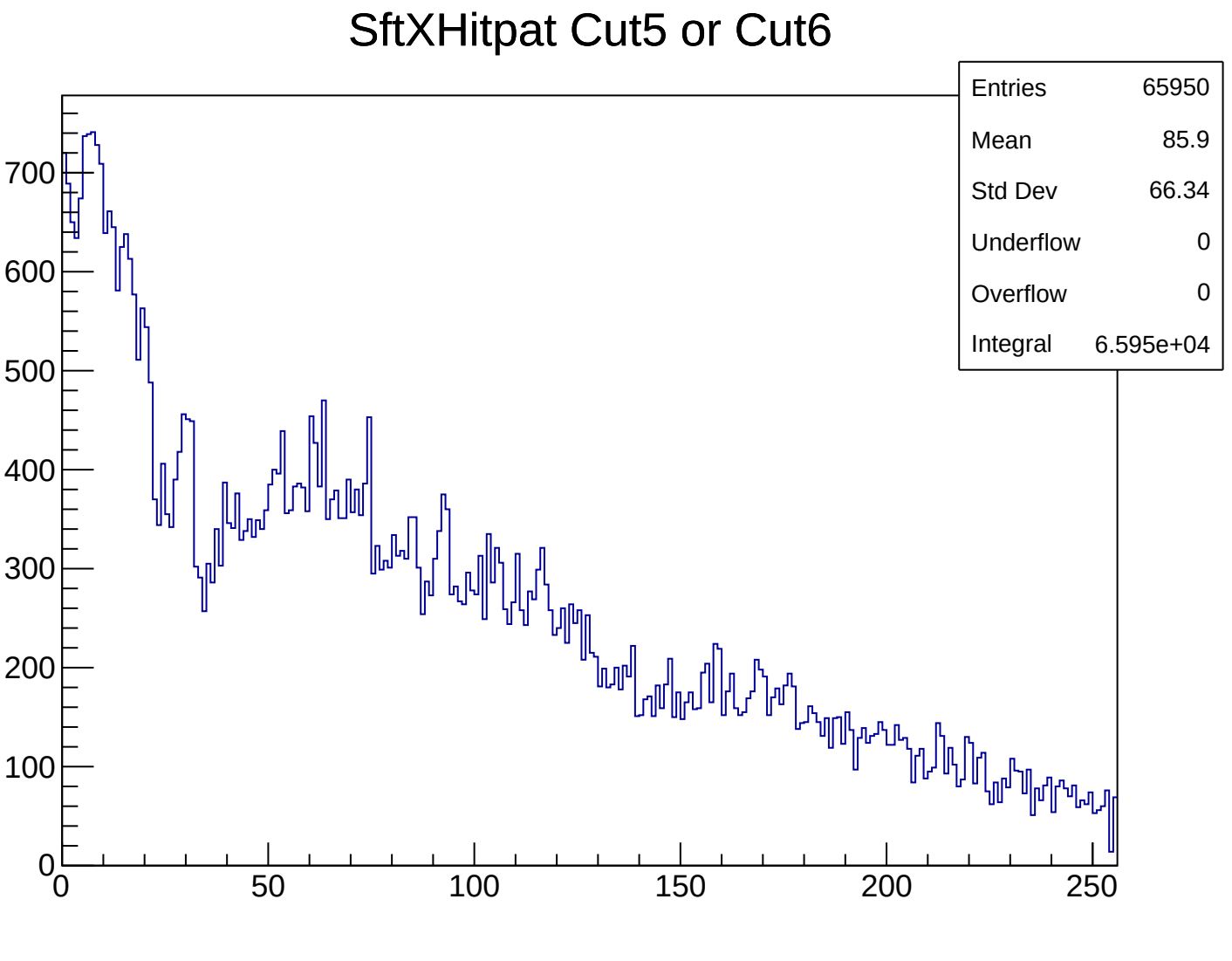

Sch Time Cut6
Entries 27783
Mean 2.242
Std Dev 5.183
Underflow 0
Overflow 0
Integral 2.778e+04
10000
8000
6000
4000
2000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

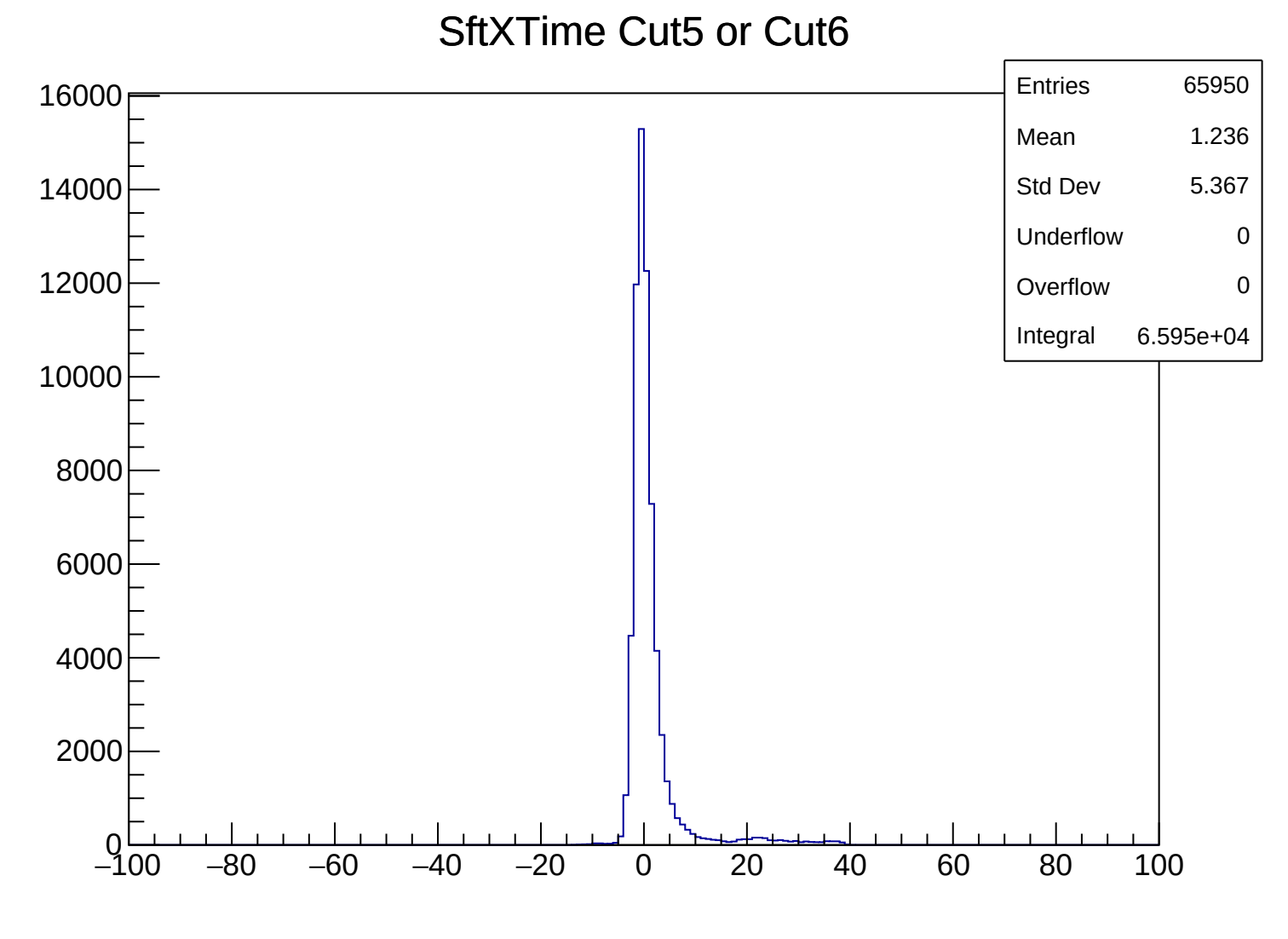

SftX U Hitpat Cut5
Entries 38167
Mean 82.83
Std Dev 65.05
Underflow 0
Overflow 0
Integral 3.817e+04
450
400
350
300
250
200
150
100
50
0
0
50
100
150
200
250

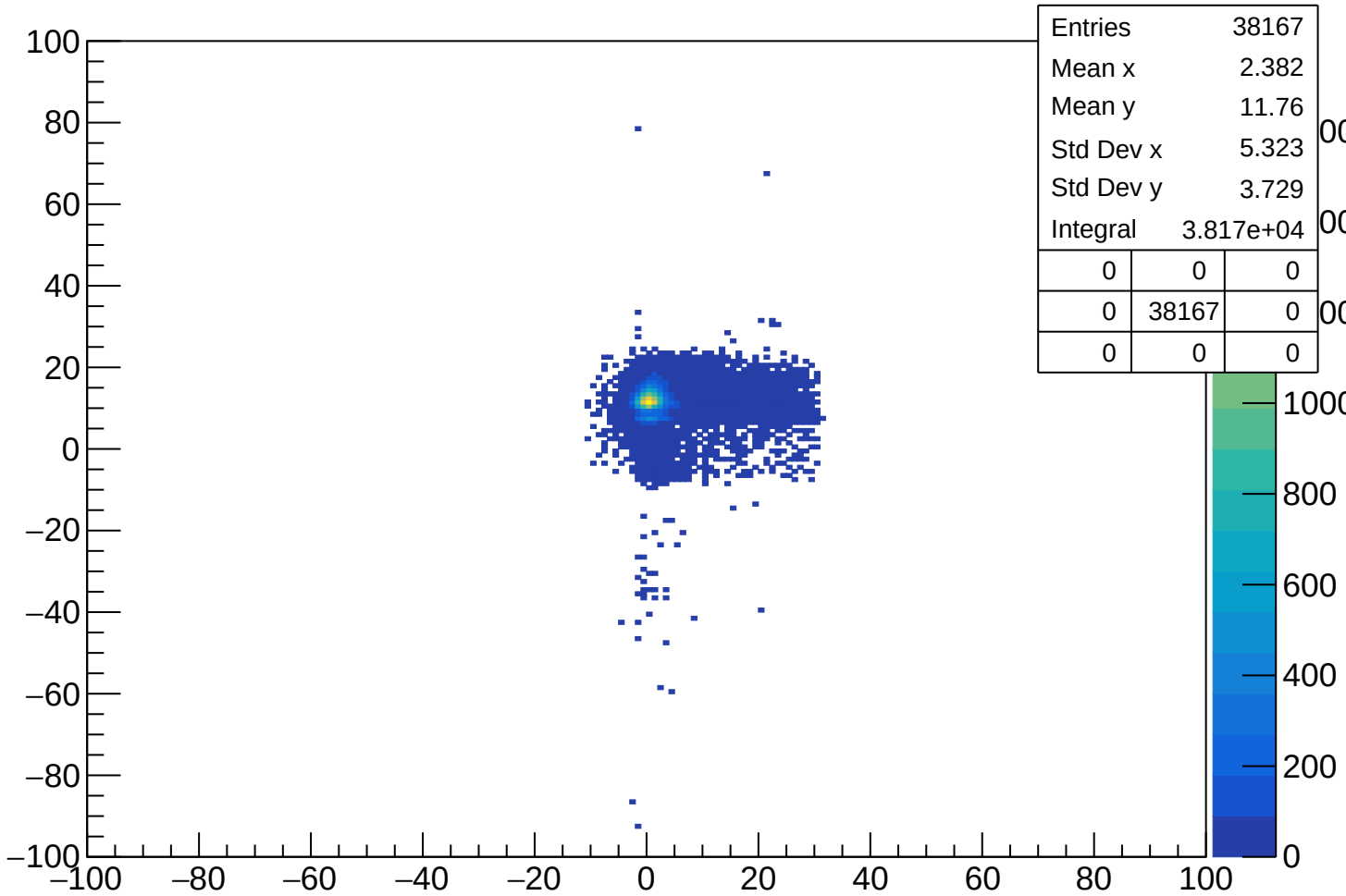

SftX U Time Cut5
Entries 38167
Mean 1.324
Std Dev 5.405
Underflow 0
Overflow 0
Integral 3.817e+04
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

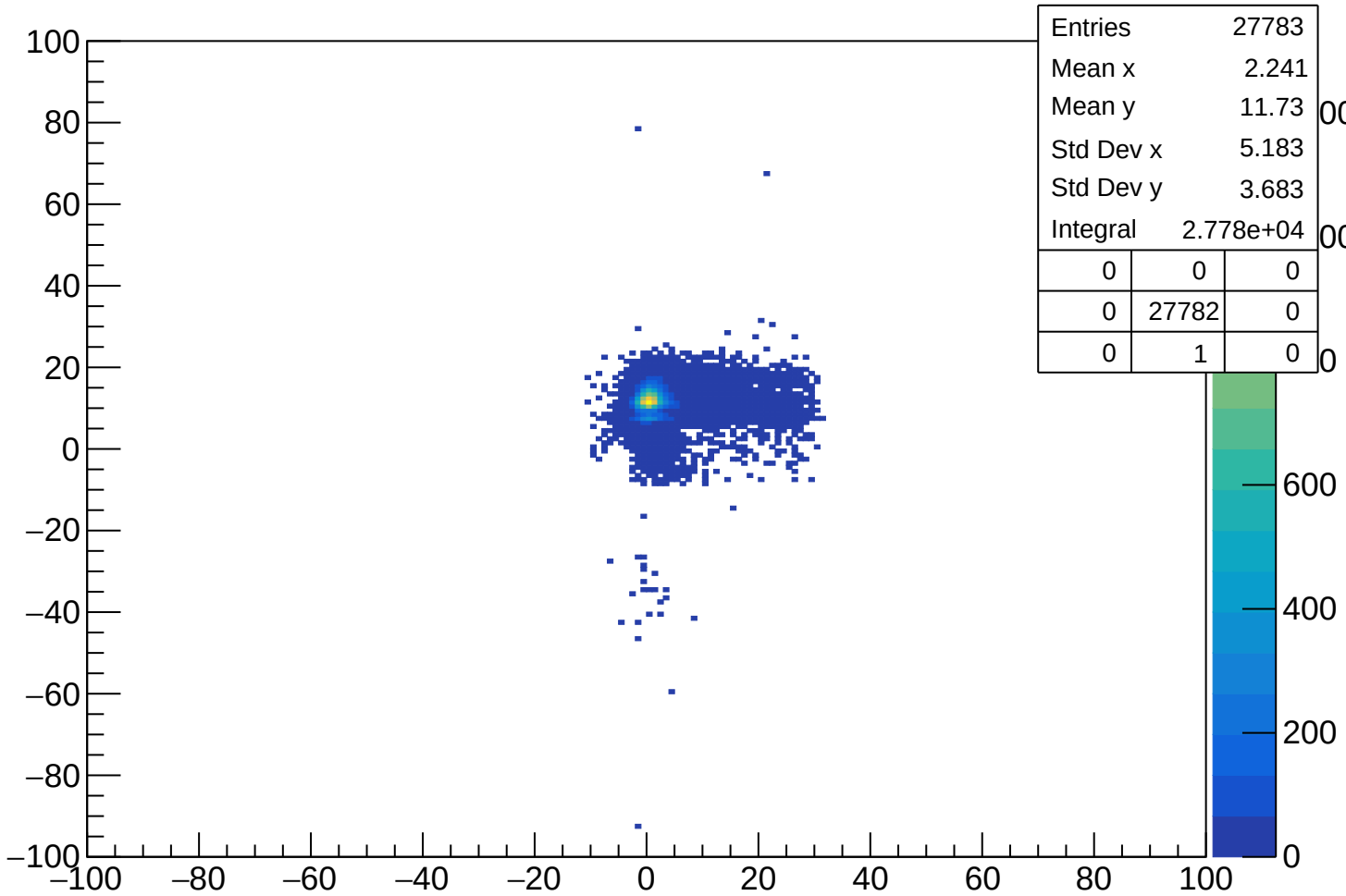

SftX D Hitpat Cut6
Entries 27783
Mean 90.12
Std Dev 67.84
Underflow 0
Overflow 0
Integral 2.778e+04
300
250
200
150
100
50
0
0
50
100
150
200
250

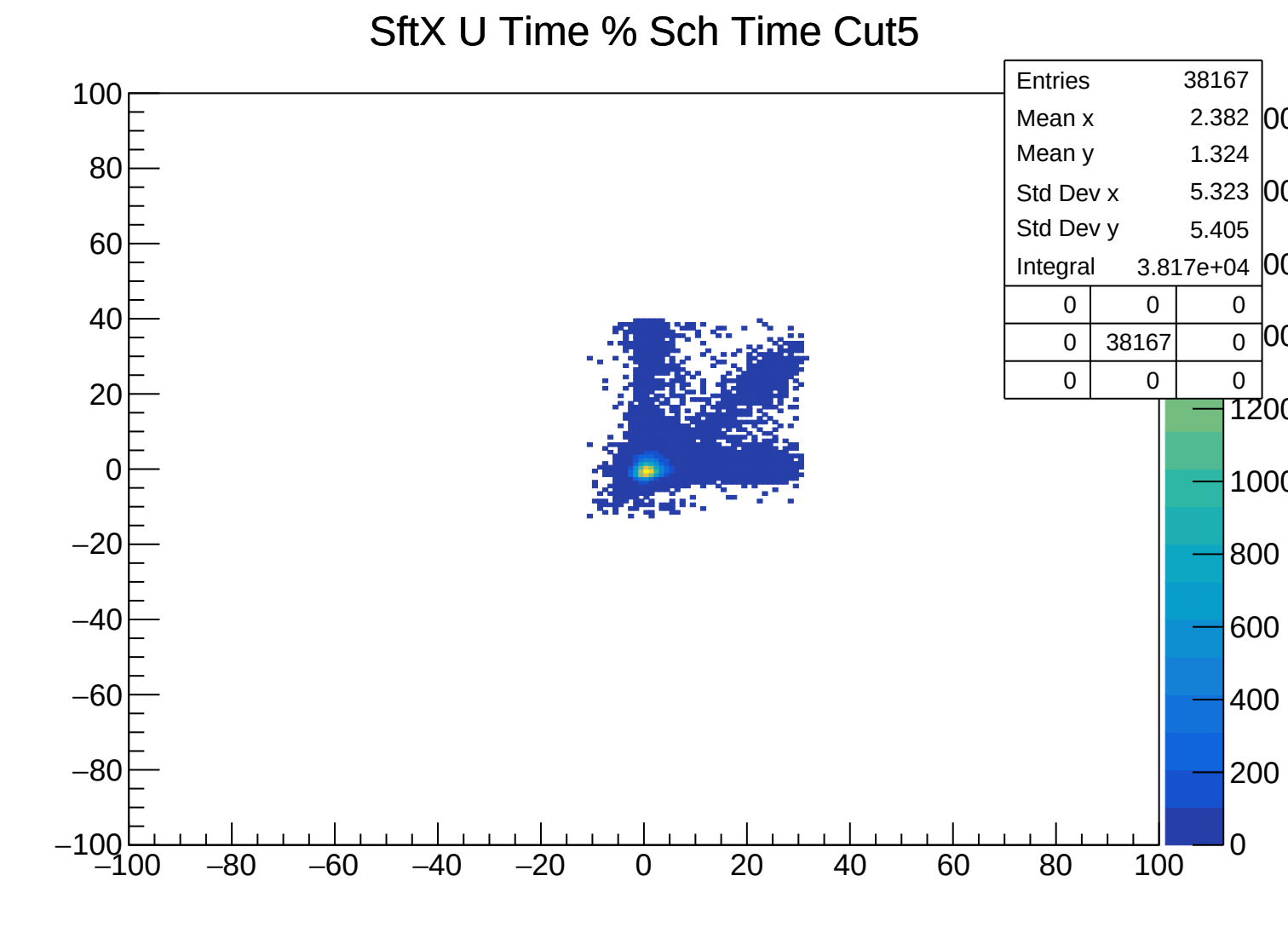

SftX D Time Cut6
Entries 27783
Mean 1.116
Std Dev 5.313
Underflow 0
Overflow 0
Integral 2.778e+04
6000
5000
4000
3000
2000
1000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

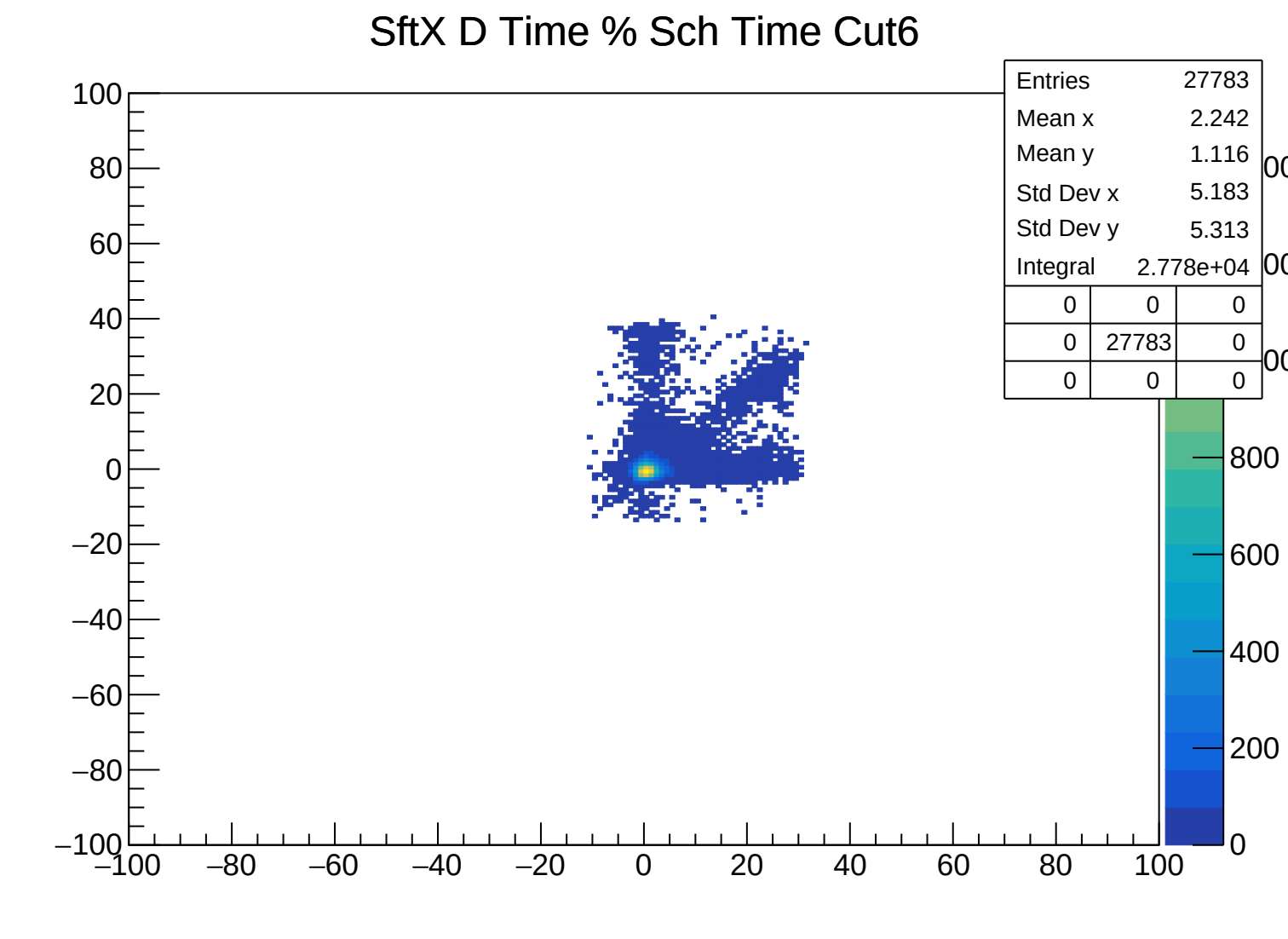

SftXHitpat Cut5 or Cut6
Entries 65950
Mean 85.9
Std Dev 66.34
Underflow 0
Overflow 0
Integral 6.595e+04
700
600
500
400
300
200
100
0
0
50
100
150
200
250

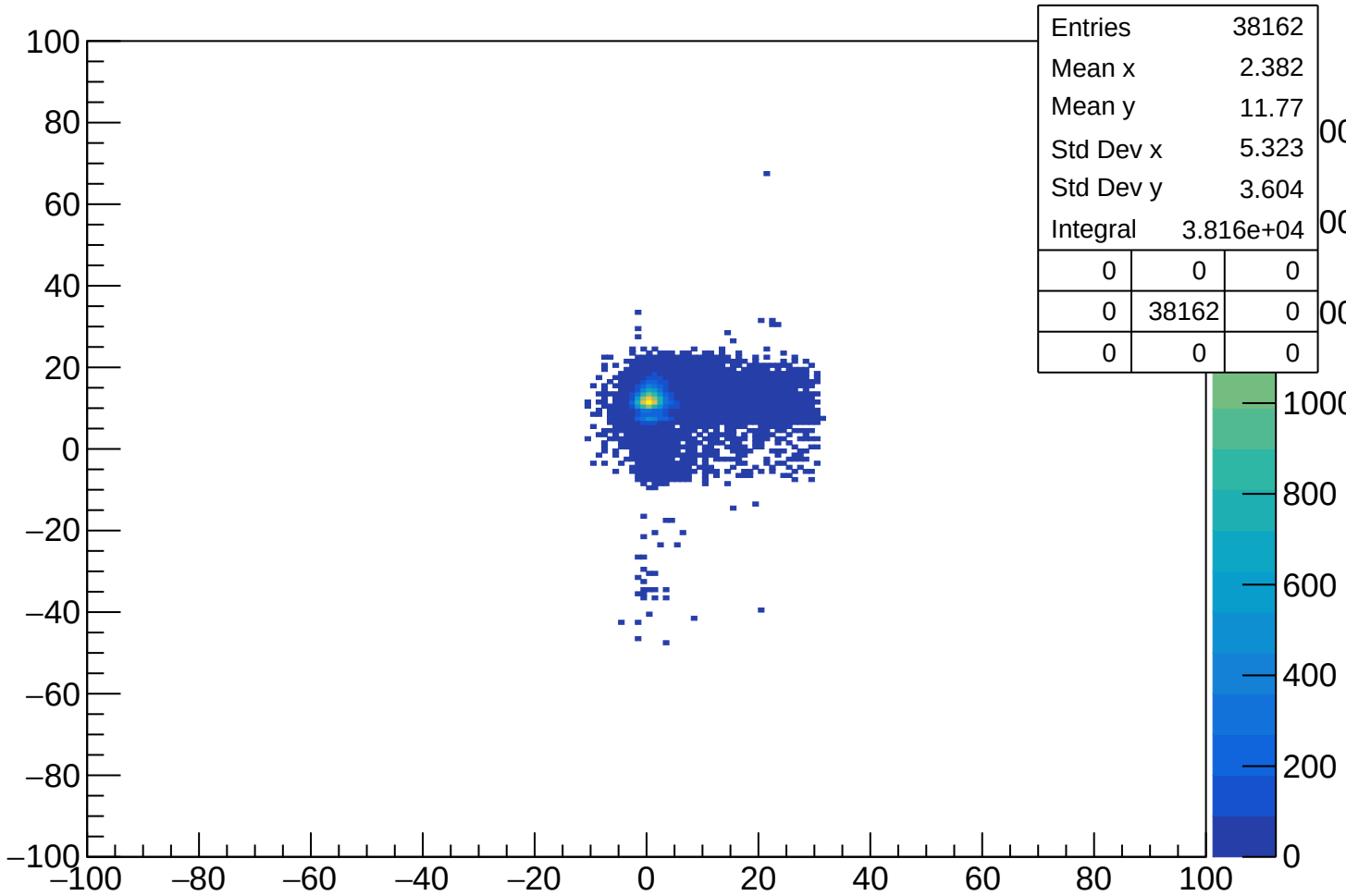

SftXTime Cut5 or Cut6
Entries 65950
Mean 1.236
Std Dev 5.367
Underflow 0
Overflow 0
Integral 6.595e+04
16000
14000
12000
10000
8000
6000
4000
2000
0
–100
–80
–60
–40
–20
0
20
40
60
80
100

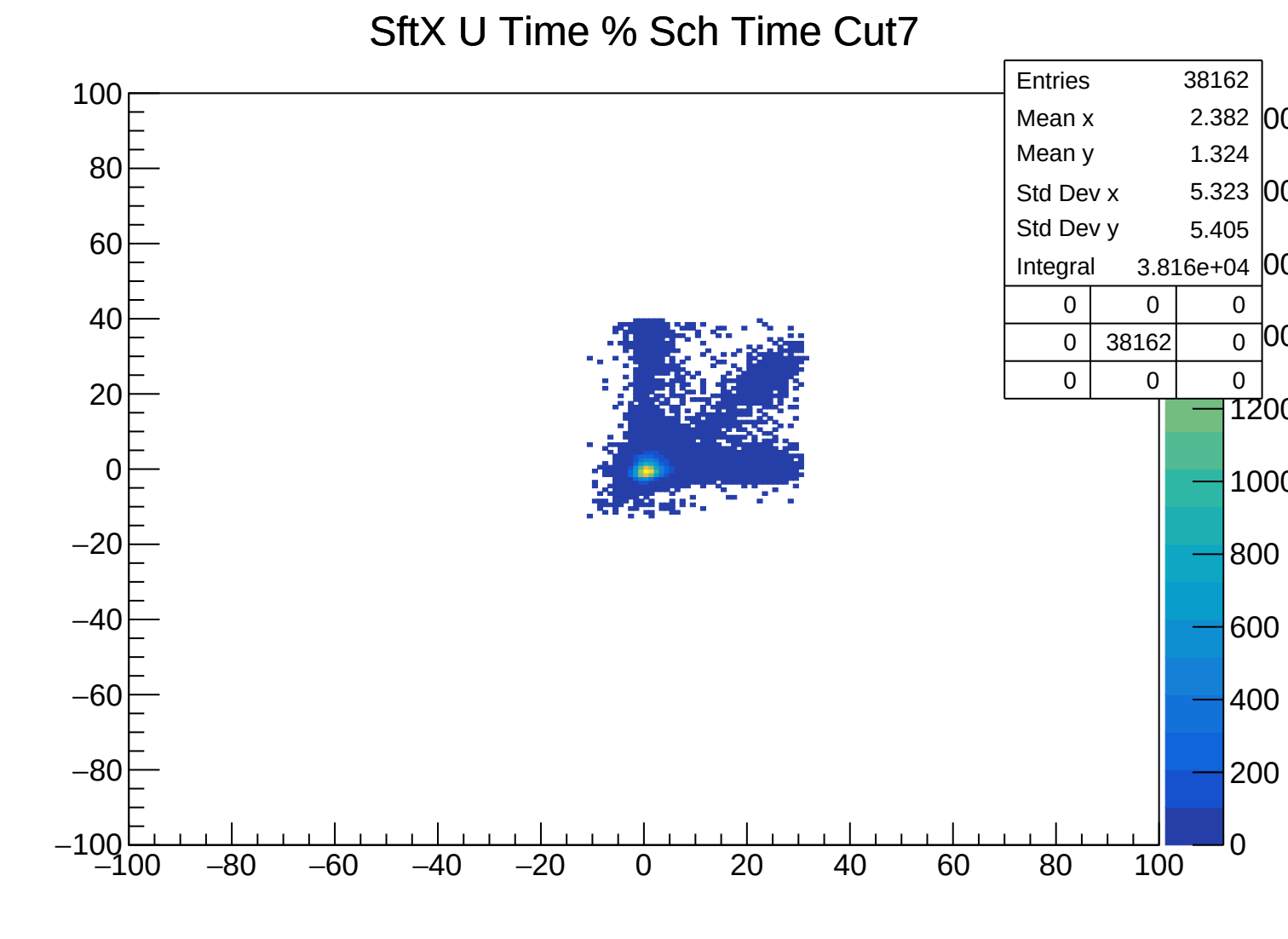

TofMtOr Time % Sch Time Cut5
Entries 38167
Mean x 2.382
Mean y 11.76
Std Dev x 5.323
Std Dev y 3.729
Integral 3.817e+04
0 0 0
0 38167 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1000
800
600
400
200
0

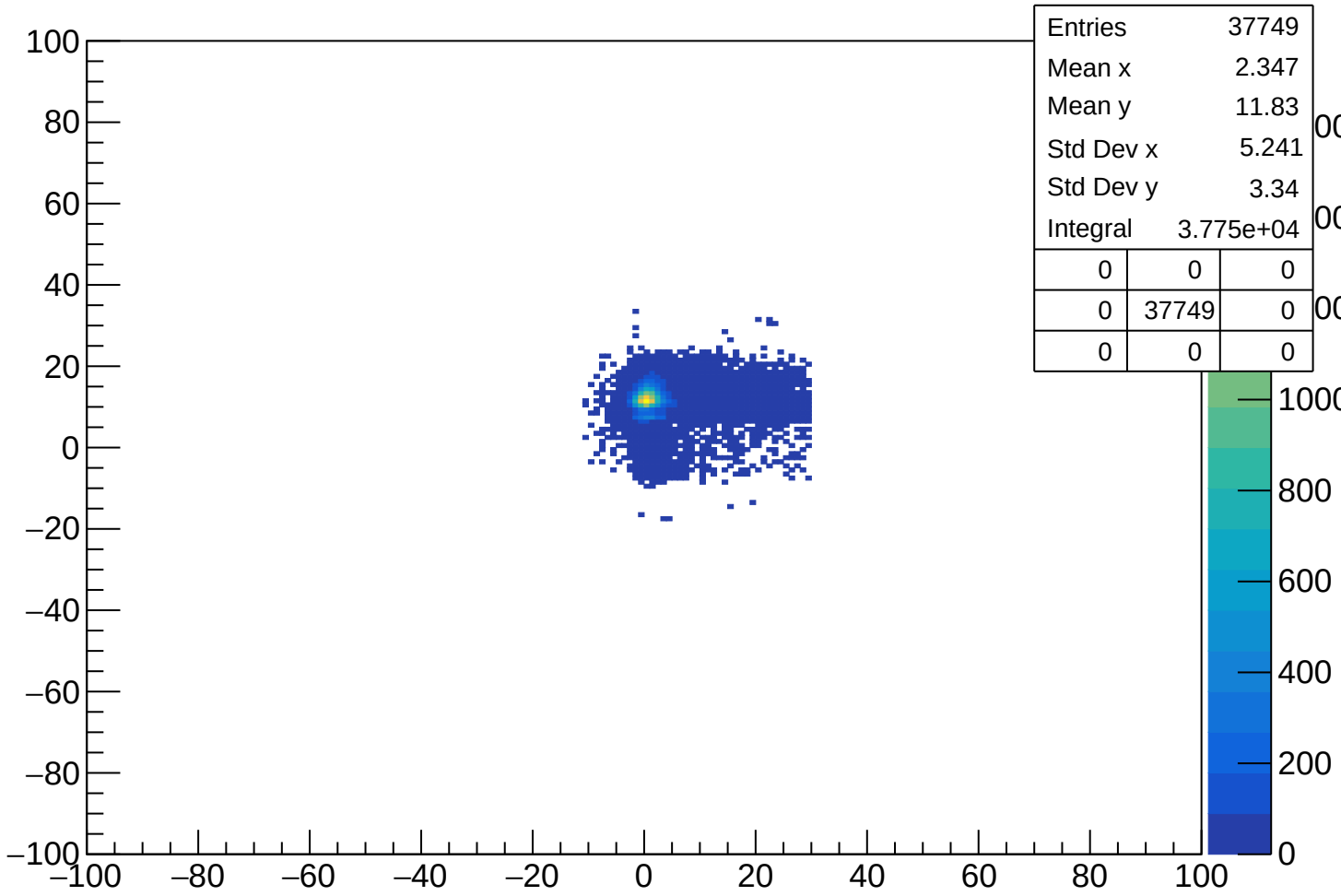

TofMtOr Time % Sch Time Cut6
Entries 27783
Mean x 2.241
Mean y 11.73
Std Dev x 5.183
Std Dev y 3.683
Integral 2.778e+04
0 0 0
0 27782 0
0 1 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
600
400
200
0

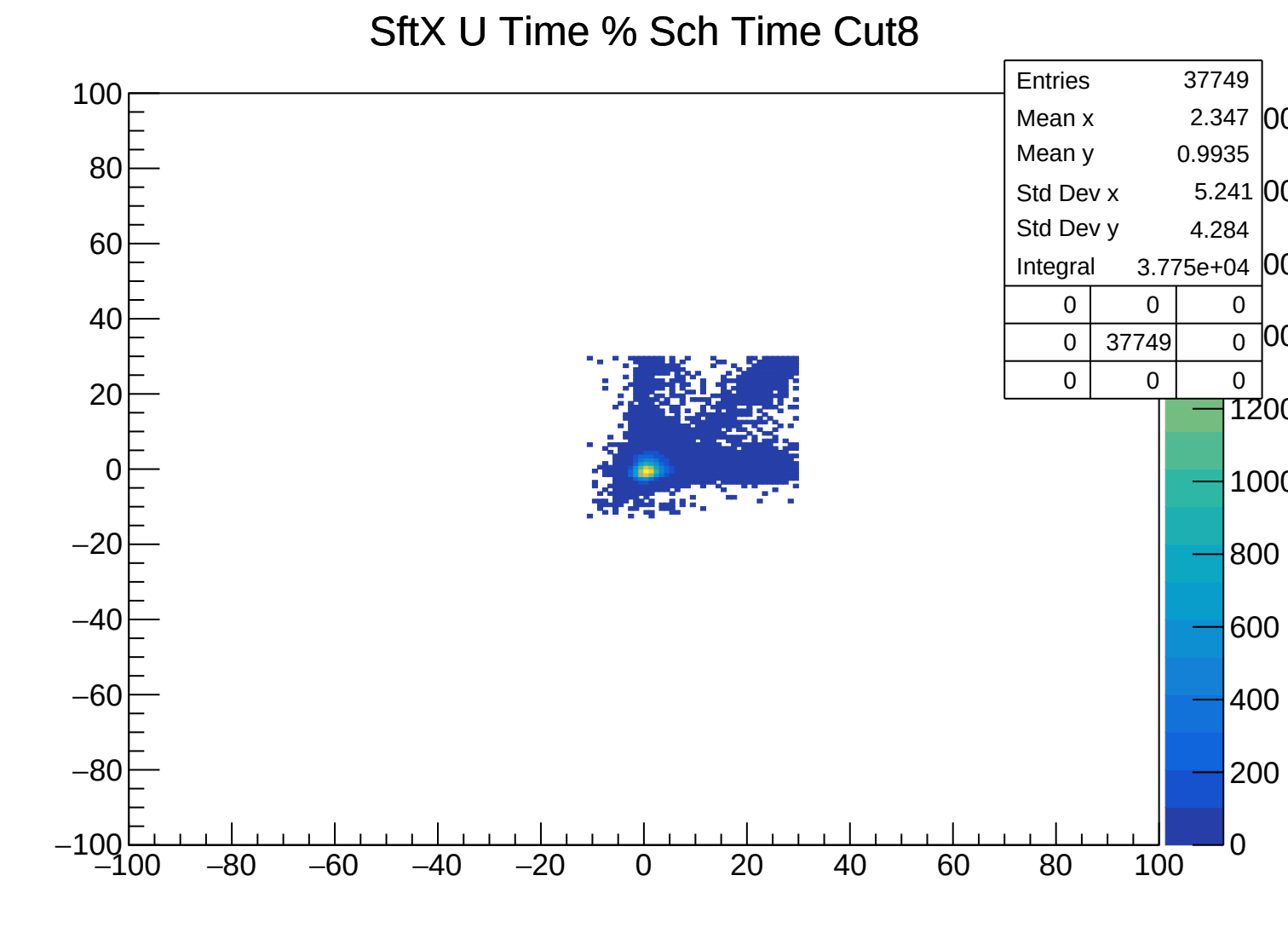

SftX U Time % Sch Time Cut5
Entries 38167
Mean x 2.382
Mean y 1.324
Std Dev x 5.323
Std Dev y 5.405
Integral 3.817e+04
0 0 0
0 38167 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1200
1000
800
600
400
200
0


SftX D Time % Sch Time Cut6
Entries 27783
Mean x 2.242
Mean y 1.116
Std Dev x 5.183
Std Dev y 5.313
Integral 2.778e+04
0 0 0
0 27783 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
800
600
400
200
0


TofMtOr Time % Sch Time Cut7
Entries 38162
Mean x 2.382
Mean y 11.77
Std Dev x 5.323
Std Dev y 3.604
Integral 3.816e+04
0 0 0
0 38162 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1000
800
600
400
200
0


SftX U Time % Sch Time Cut7
Entries 38162
Mean x 2.382
Mean y 1.324
Std Dev x 5.323
Std Dev y 5.405
Integral 3.816e+04
0 0 0
0 38162 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1200
1000
800
600
400
200
0


TofMtOr Time % Sch Time Cut8
Entries 37749
Mean x 2.347
Mean y 11.83
Std Dev x 5.241
Std Dev y 3.34
Integral 3.775e+04
0 0 0
0 37749 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1000
800
600
400
200
0


SftX U Time % Sch Time Cut8
Entries 37749
Mean x 2.347
Mean y 0.9935
Std Dev x 5.241
Std Dev y 4.284
Integral 3.775e+04
0 0 0
0 37749 0
0 0 0
100
80
60
40
20
0
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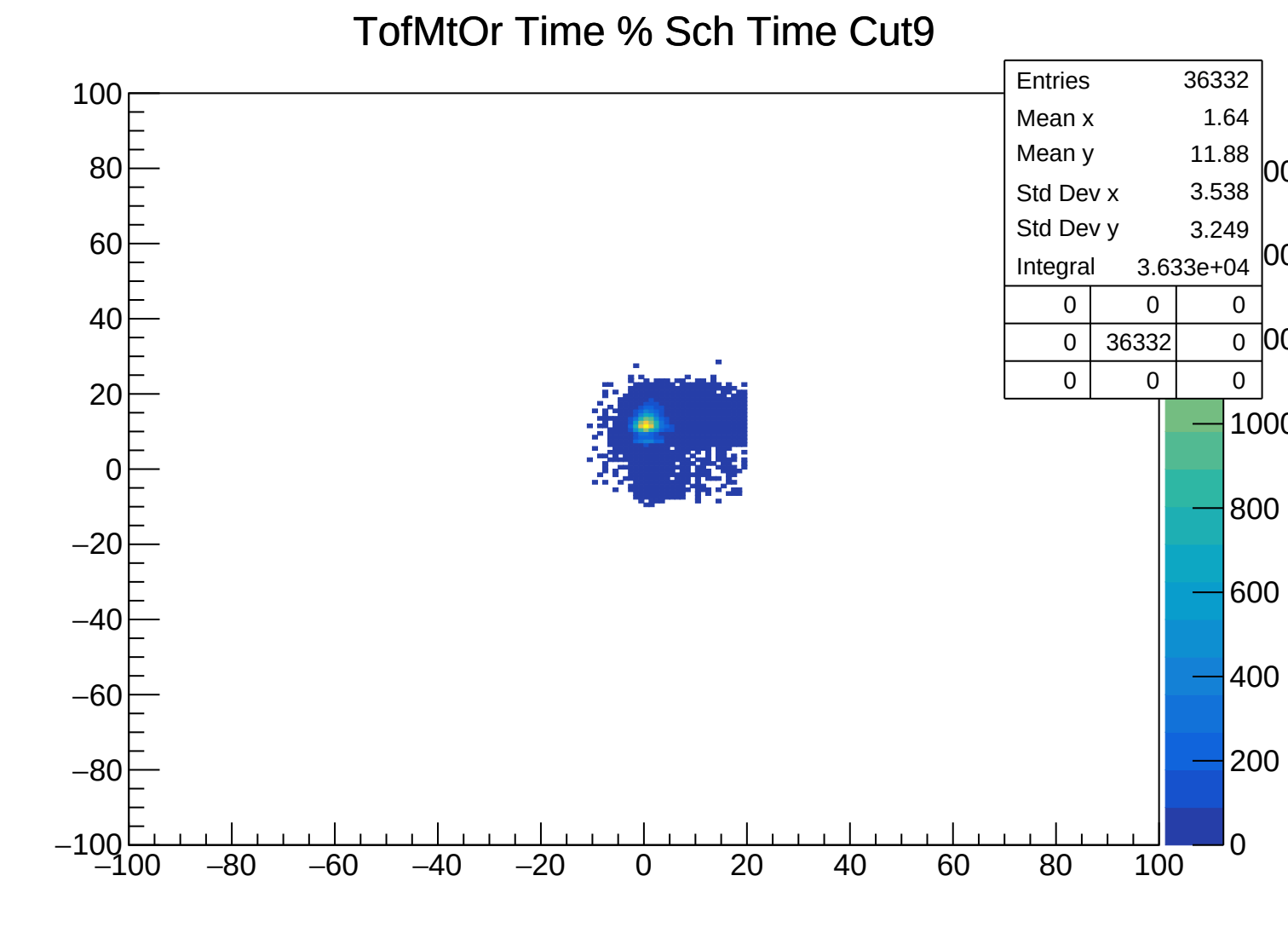
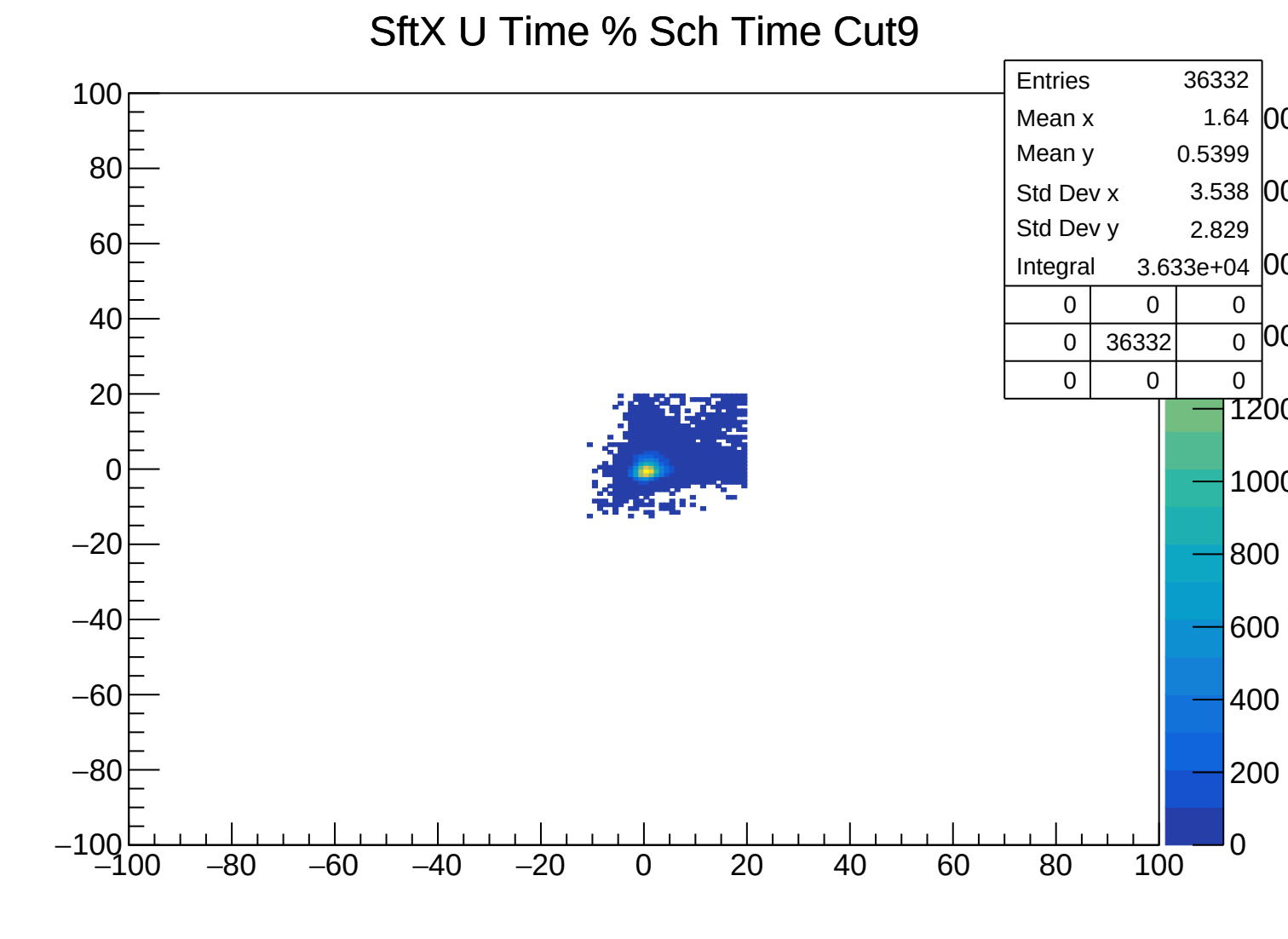
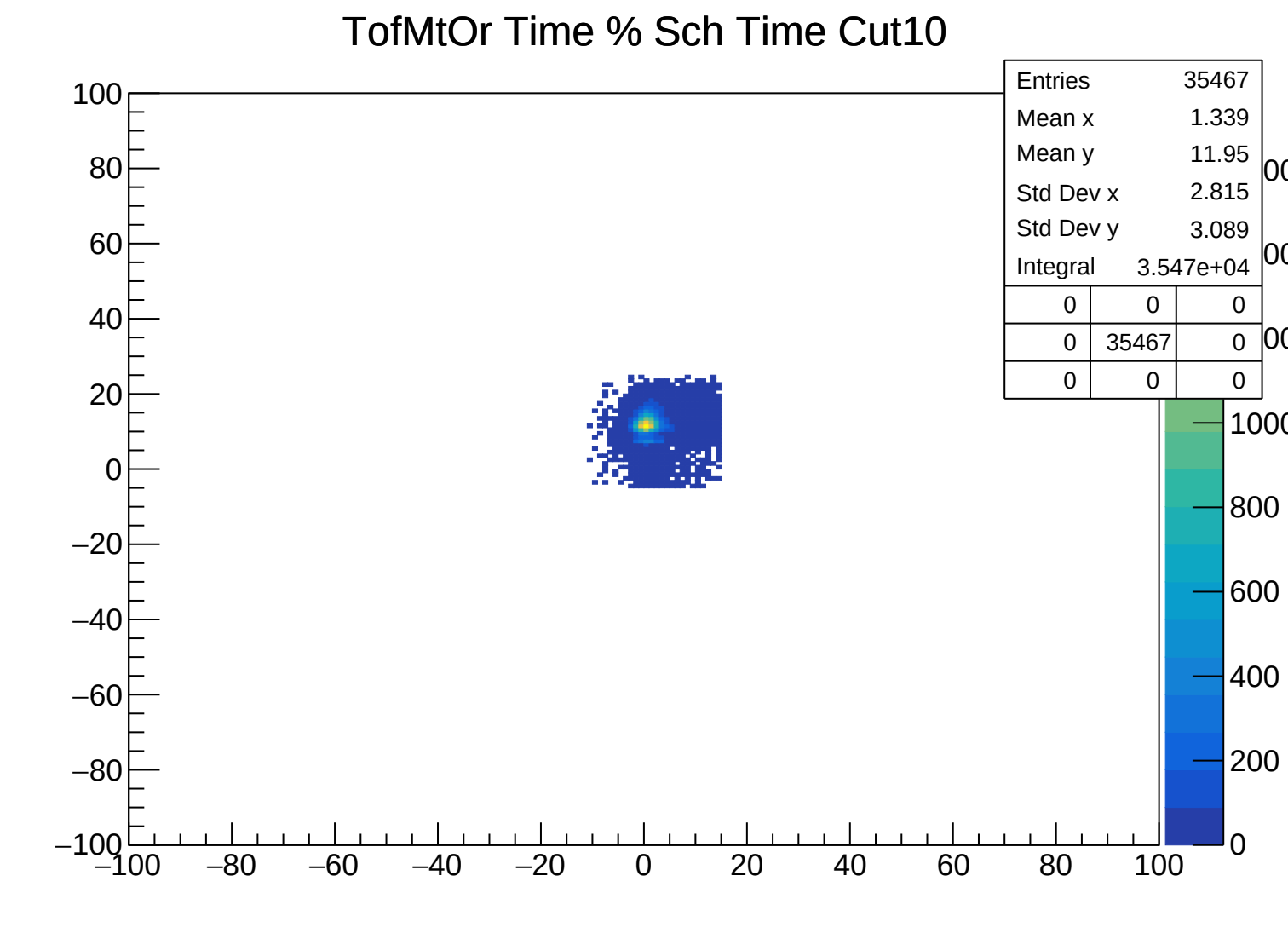
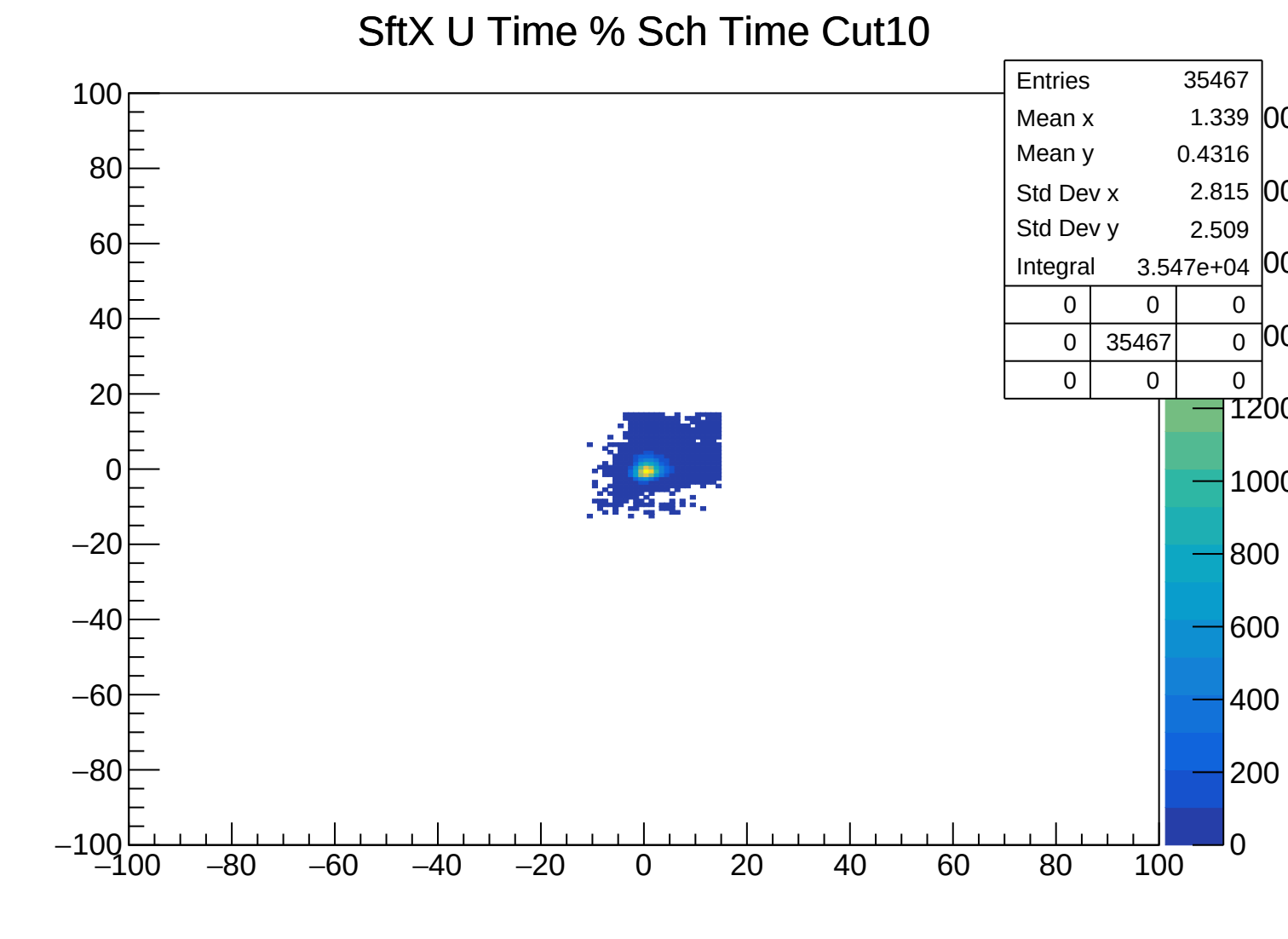
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1200
1000
800
600
400
200
0


TofMtOr Time % Sch Time Cut9
Entries 36332
Mean x 1.64
Mean y 11.88
Std Dev x 3.538
Std Dev y 3.249
Integral 3.633e+04
0 0 0
0 36332 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1000
800
600
400
200
0


SftX U Time % Sch Time Cut9
Entries 36332
Mean x 1.64
Mean y 0.5399
Std Dev x 3.538
Std Dev y 2.829
Integral 3.633e+04
0 0 0
0 36332 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1200
1000
800
600
400
200
0


TofMtOr Time % Sch Time Cut10
Entries 35467
Mean x 1.339
Mean y 11.95
Std Dev x 2.815
Std Dev y 3.089
Integral 3.547e+04
0 0 0
0 35467 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1000
800
600
400
200
0


SftX U Time % Sch Time Cut10
Entries 35467
Mean x 1.339
Mean y 0.4316
Std Dev x 2.815
Std Dev y 2.509
Integral 3.547e+04
0 0 0
0 35467 0
0 0 0
100
80
60
40
20
0
−20
−40
−60
−80
−100
−100 −80 −60 −40 −20 0 20 40 60 80 100
1200
1000
800
600
400
200
0