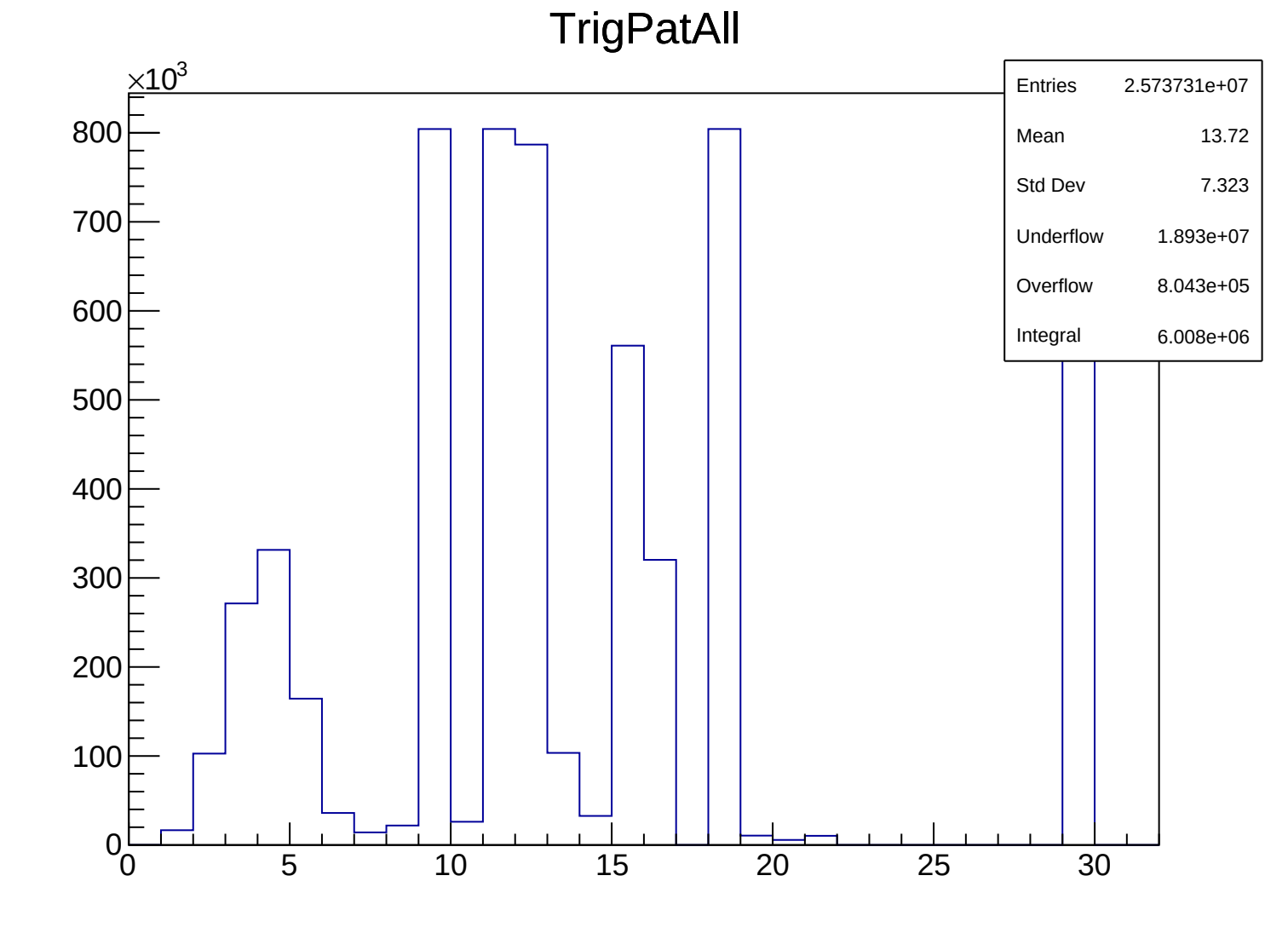
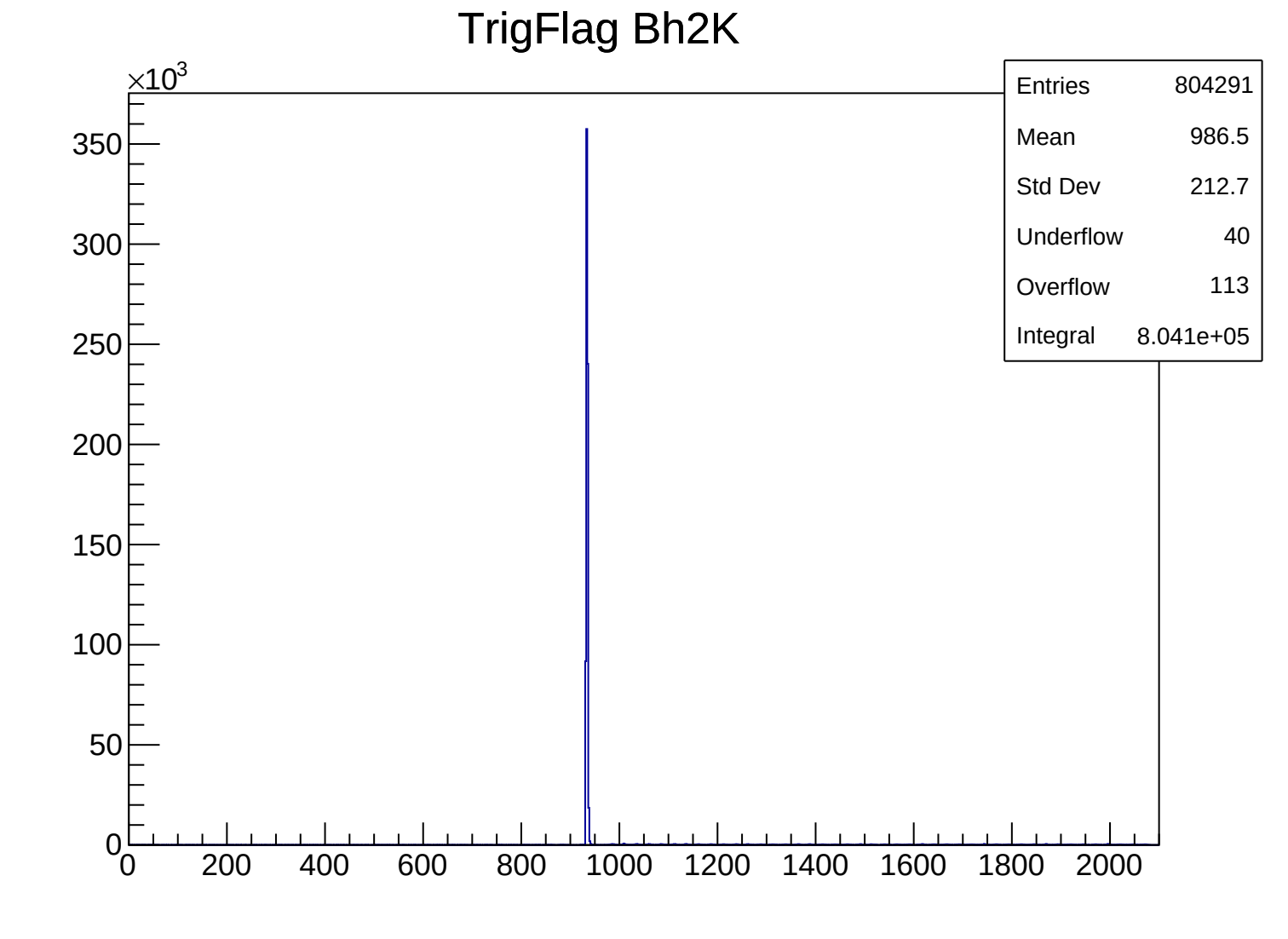
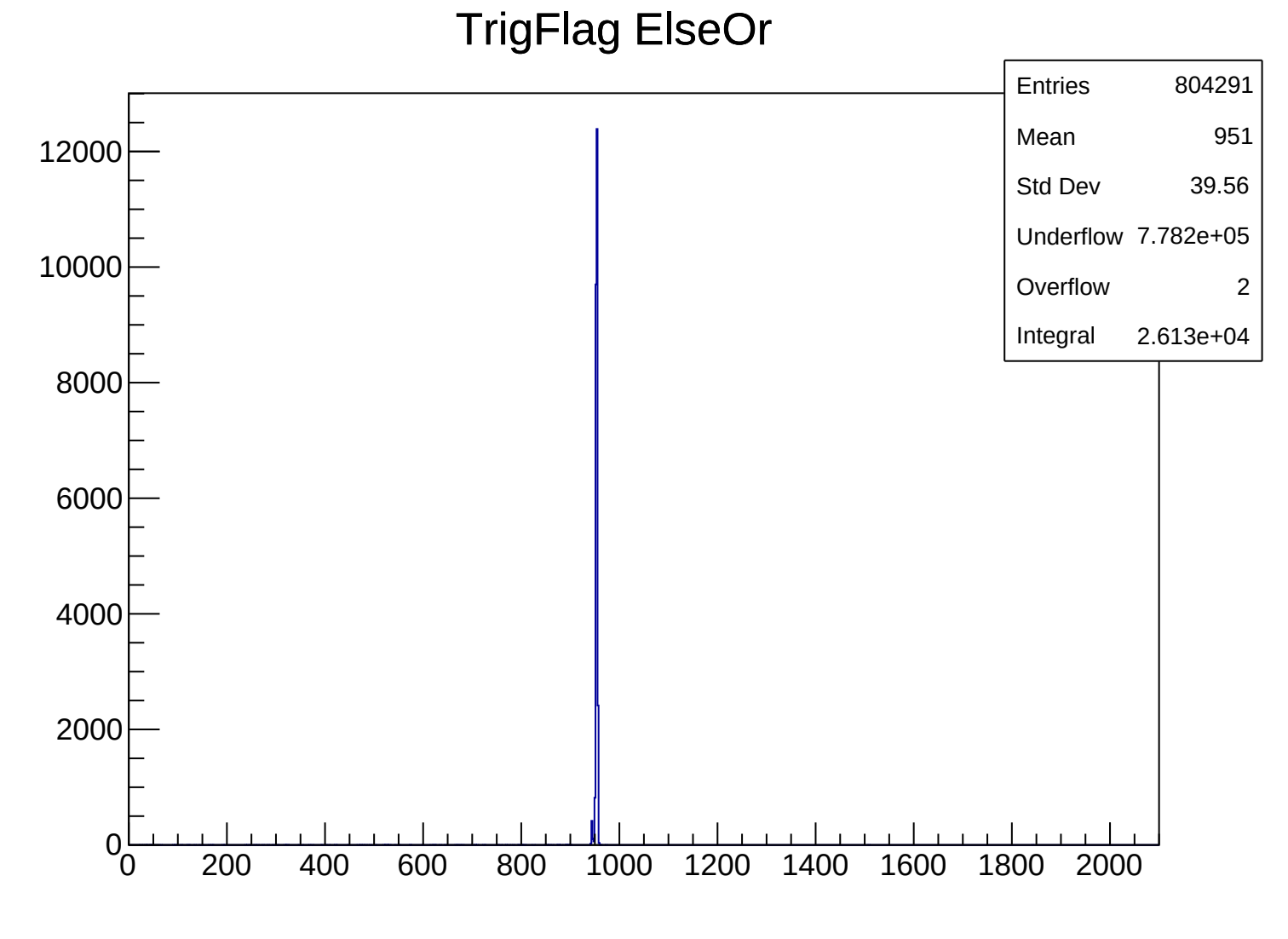
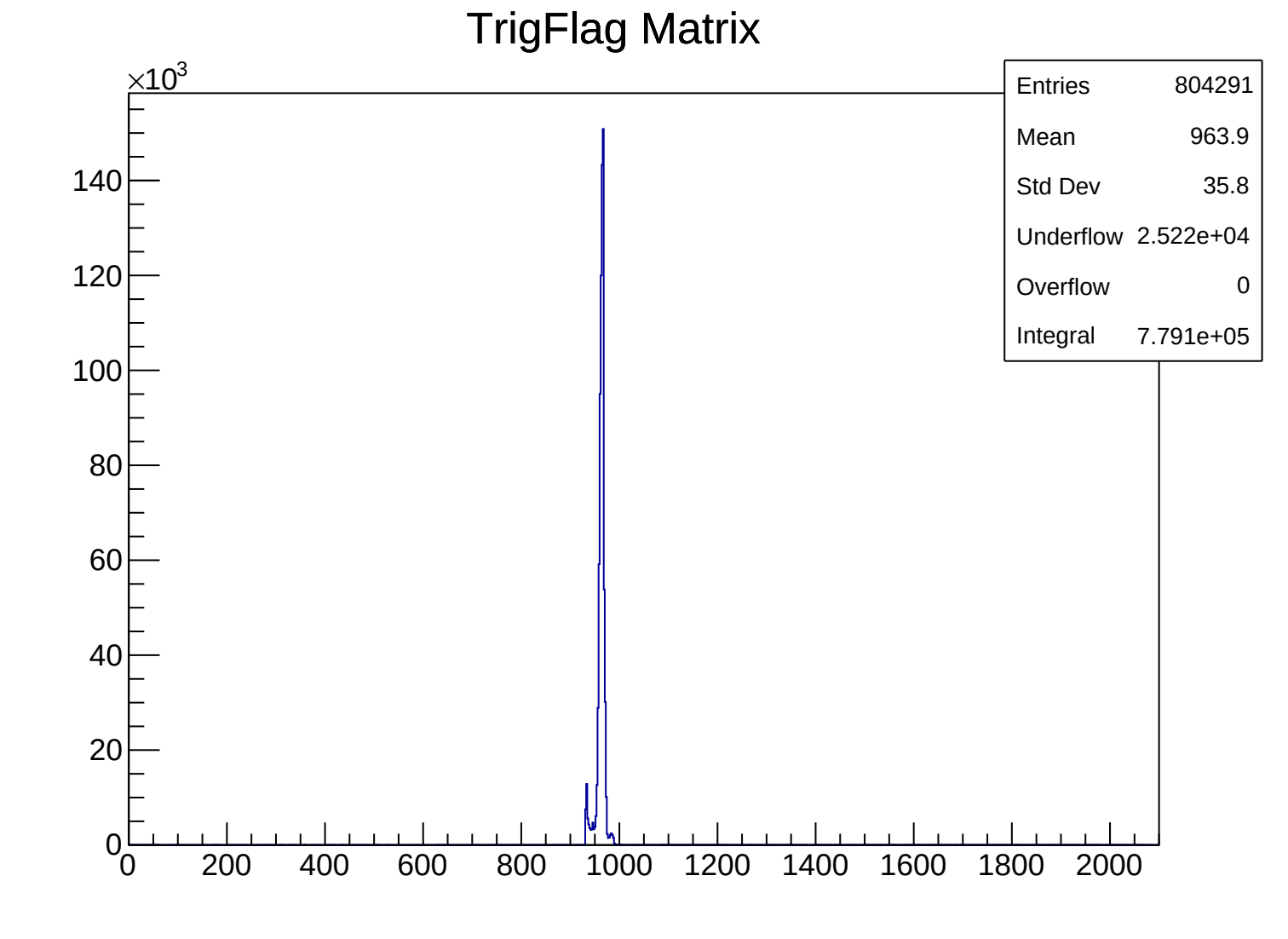
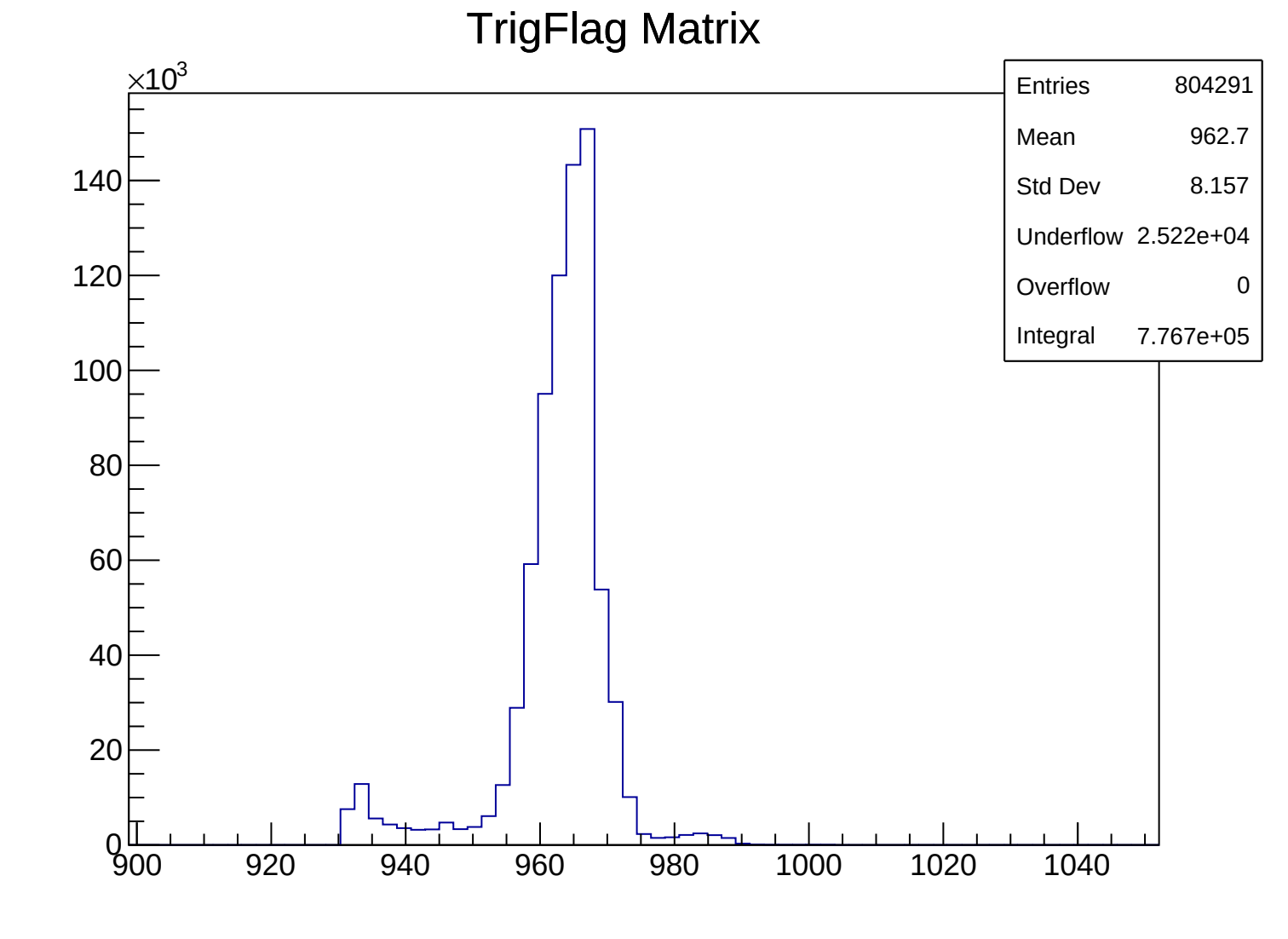
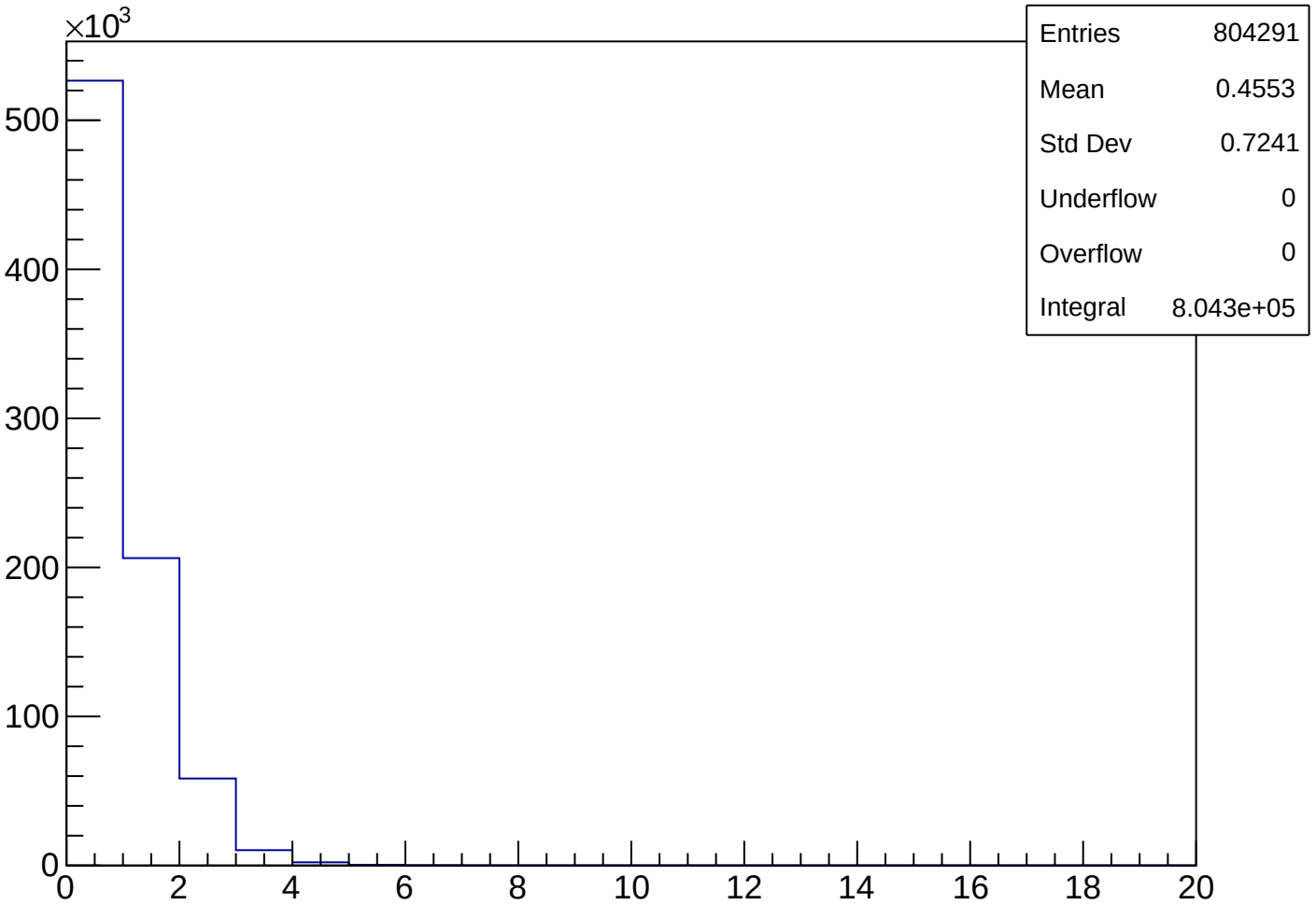

TrigPatAll
×10^3
800
700
600
500
400
300
200
100
0
0
5
10
15
20
25
30
Entries 2.573731e+07
Mean 13.72
Std Dev 7.323
Underflow 1.893e+07
Overflow 8.043e+05
Integral 6.008e+06

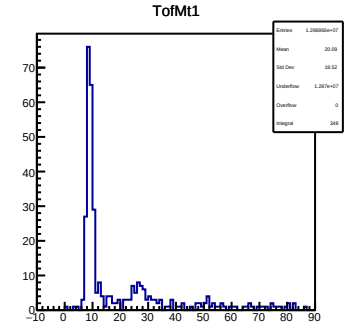

TrigFlag Bh2K
×10^3
350
300
250
200
150
100
50
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000
Entries 804291
Mean 986.5
Std Dev 212.7
Underflow 40
Overflow 113
Integral 8.041e+05

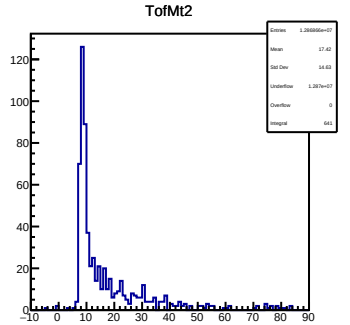

TrigFlag ElseOr
Entries 804291
Mean 951
Std Dev 39.56
Underflow 7.782e+05
Overflow 2
Integral 2.613e+04
12000
10000
8000
6000
4000
2000
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

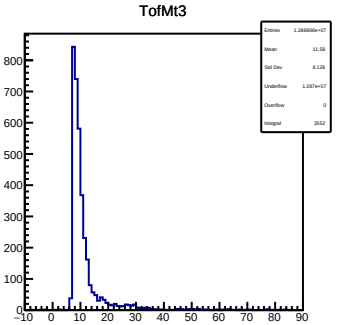

TrigFlag Matrix
×10^3
140
120
100
80
60
40
20
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000
Entries 804291
Mean 963.9
Std Dev 35.8
Underflow 2.522e+04
Overflow 0
Integral 7.791e+05

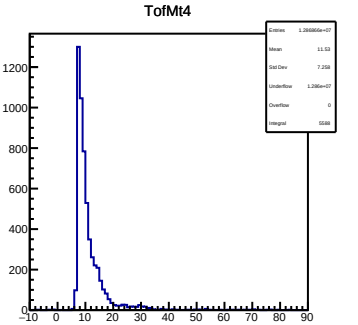

TrigFlag Matrix
×10^3
140
120
100
80
60
40
20
0
900
920
940
960
980
1000
1020
1040
Entries 804291
Mean 962.7
Std Dev 8.157
Underflow 2.522e+04
Overflow 0
Integral 7.767e+05

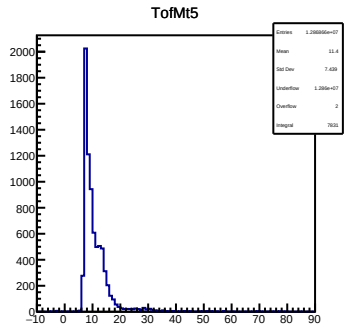

TofNhits
×10^3
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Entries 804291
Mean 0.4553
Std Dev 0.7241
Underflow 0
Overflow 0
Integral 8.043e+05

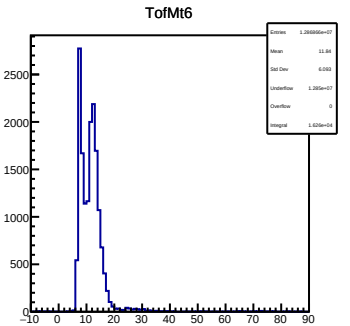

TofMt1

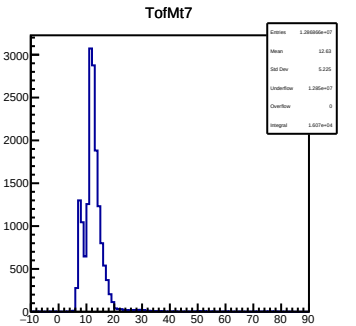

TofMt2

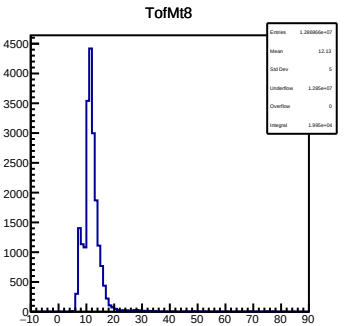

TofMt3

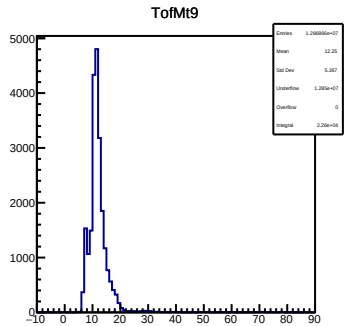

TofMt4

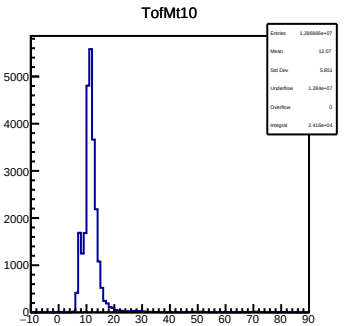

TofMt5

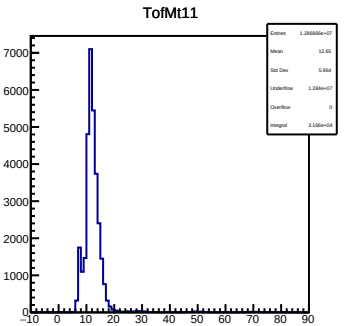

TofMt6

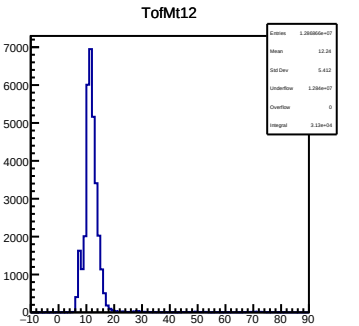

TofMt7

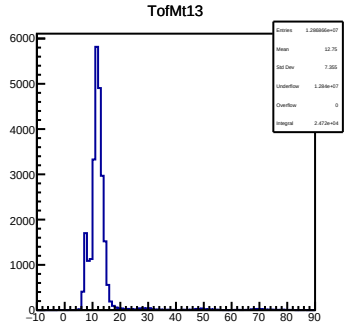

TofMt8

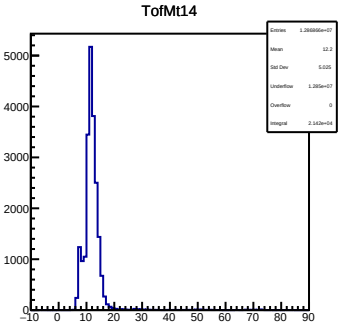

TofMt9

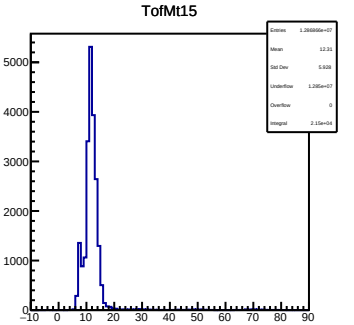

TofMt10

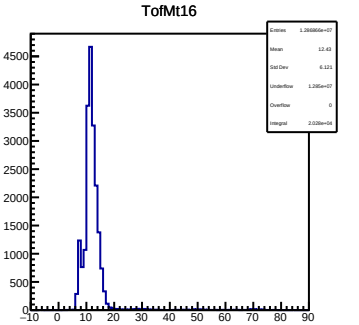

TofMt11

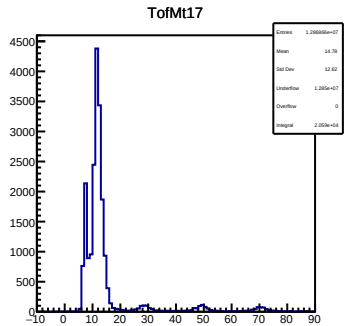

TofMt12

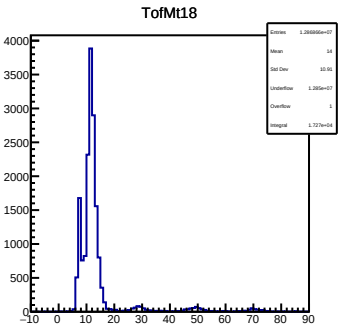

TofMt13

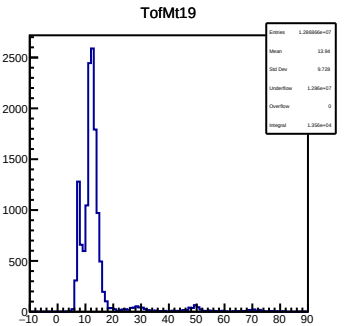

TofMt14

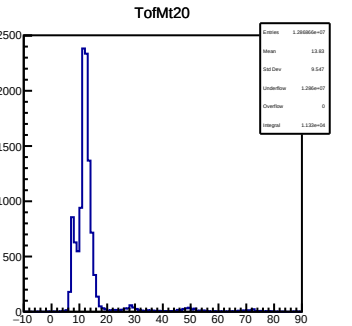

TofMt15

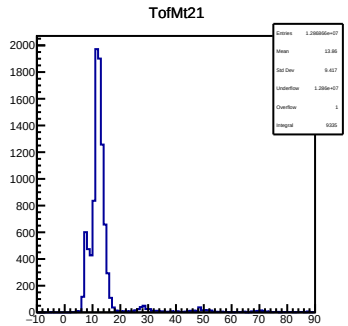

TofMt16

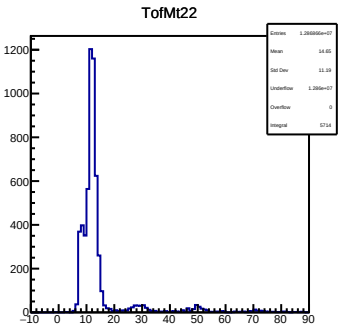

TofMt17

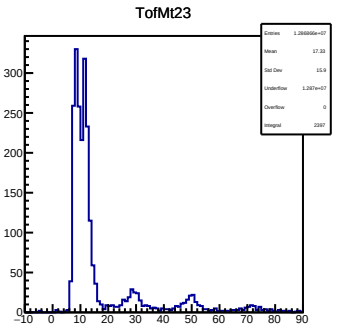

TofMt18

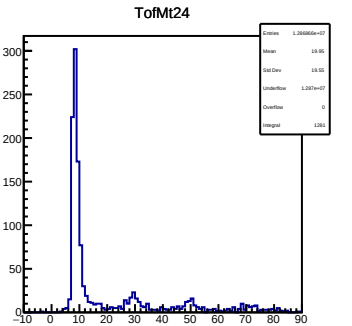

TofMt19

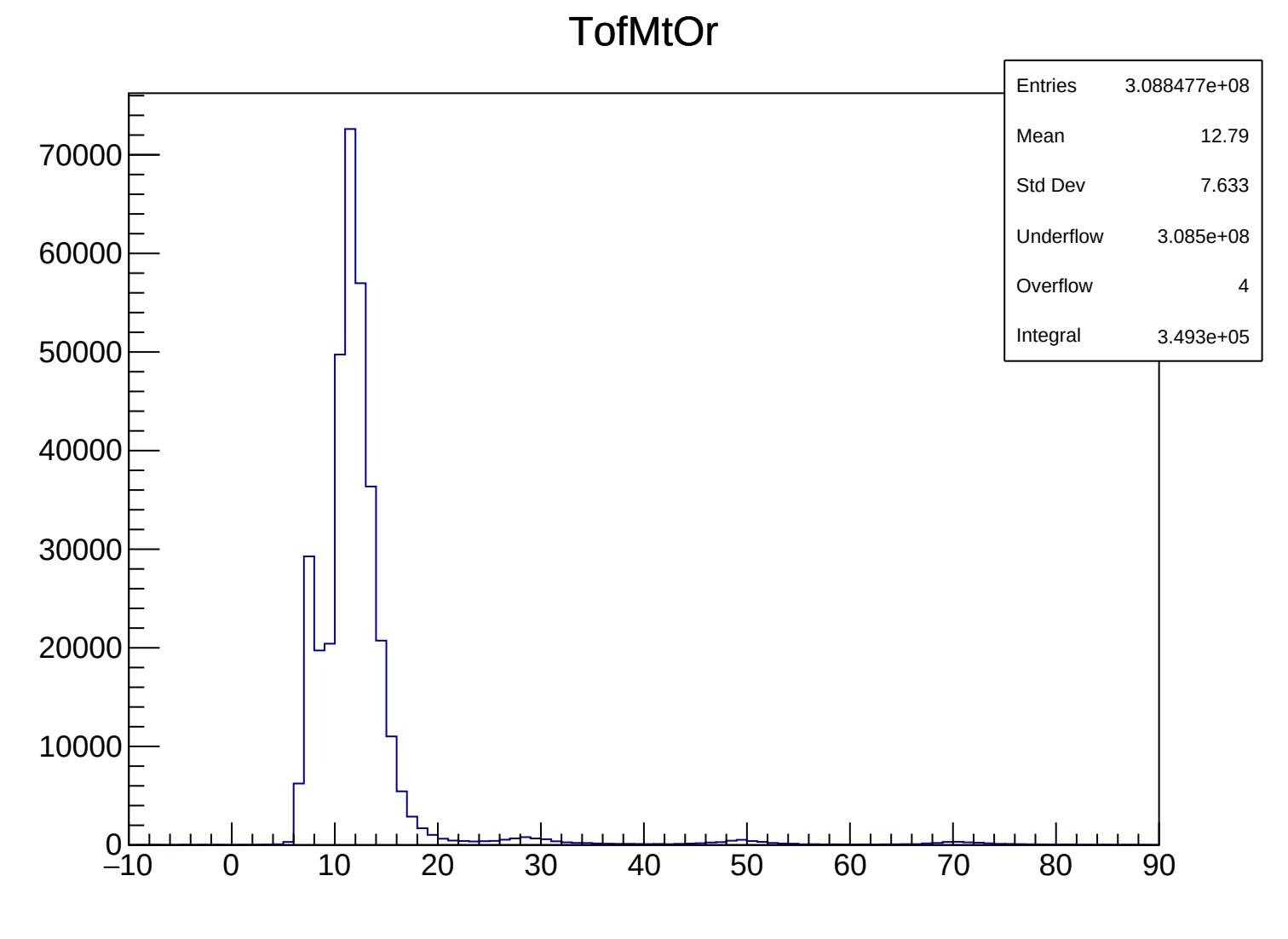

TofMt20

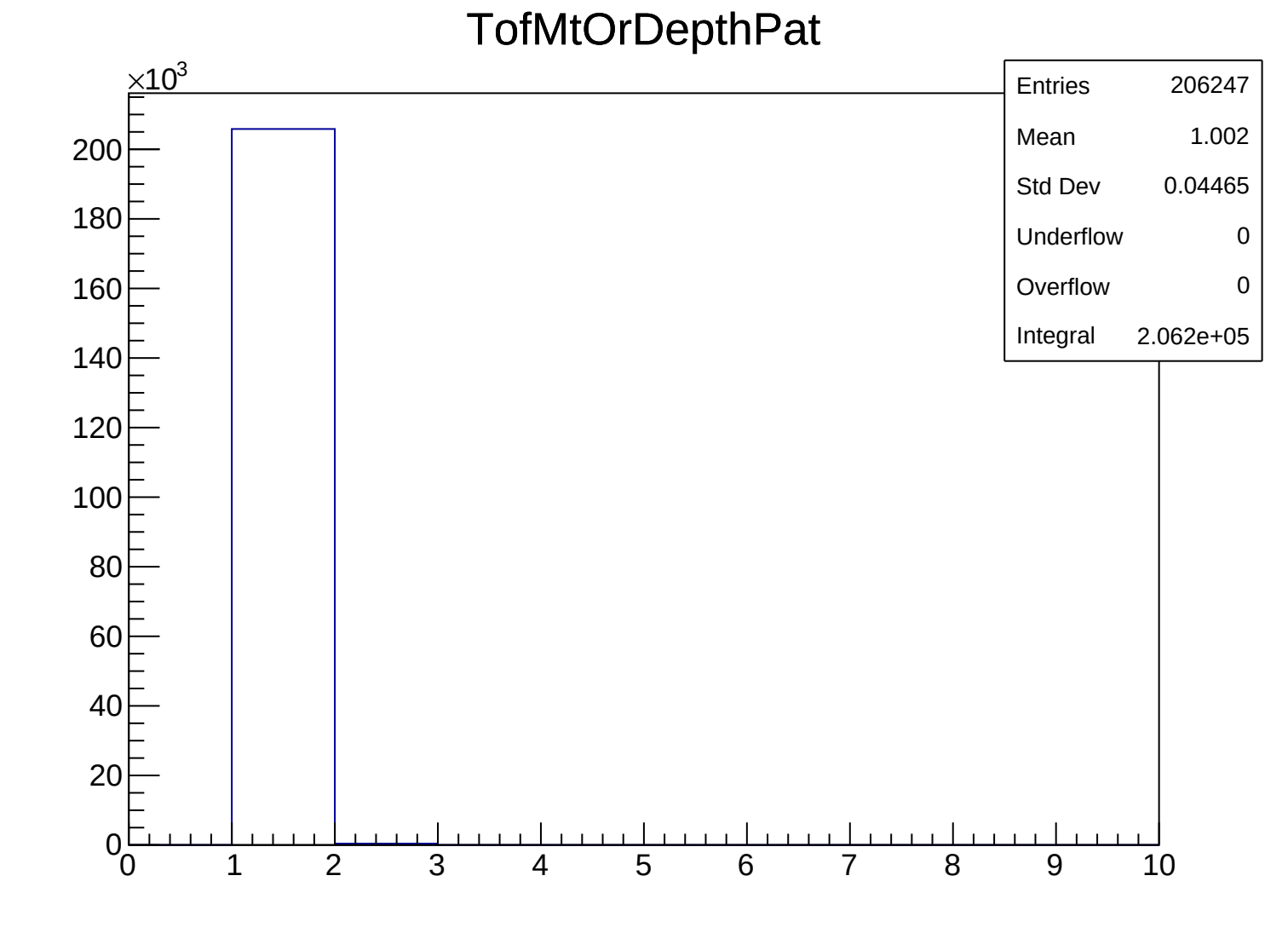

TofMt21

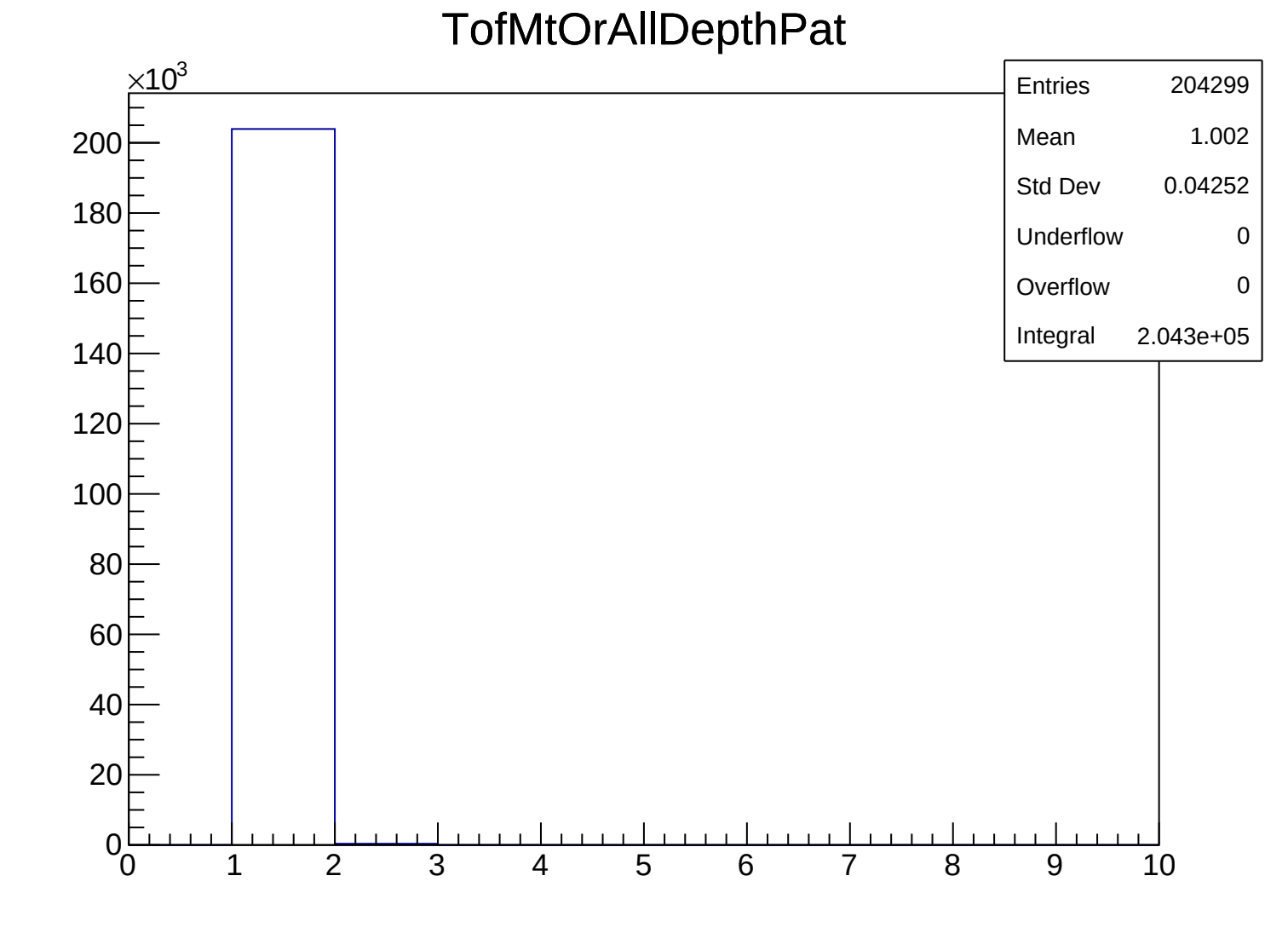

TofMt22

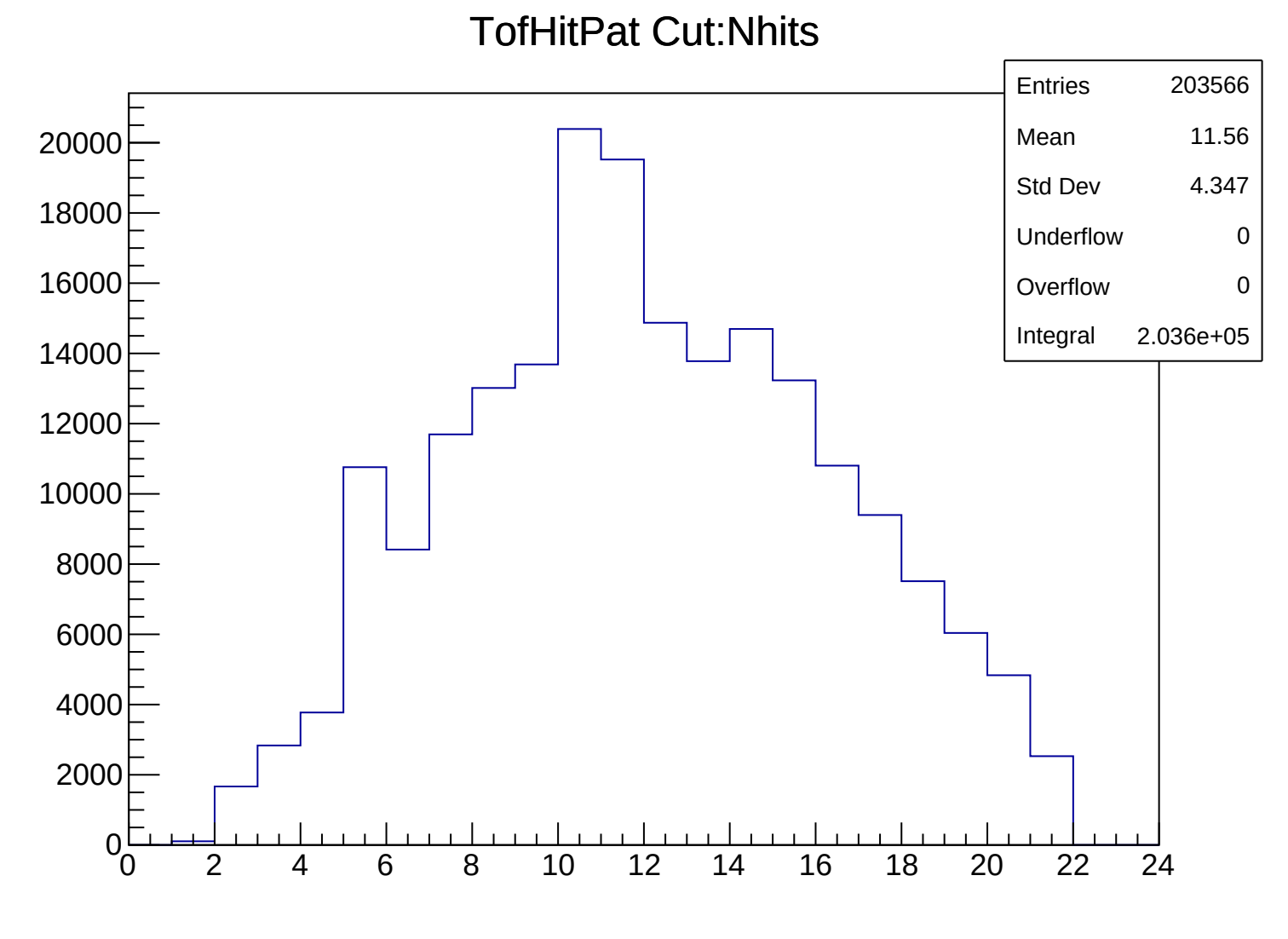

TofMt23


TofMt24


TofMtOr
Entries 3.088477e+08
Mean 12.79
Std Dev 7.633
Underflow 3.085e+08
Overflow 4
Integral 3.493e+05
70000
60000
50000
40000
30000
20000
10000
0
−10
0
10
20
30
40
50
60
70
80
90


TofMtOrDepthPat
×10^3
200
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10
Entries 206247
Mean 1.002
Std Dev 0.04465
Underflow 0
Overflow 0
Integral 2.062e+05


TofMtOrAllDepthPat
×10^3
200
180
160
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
7
8
9
10
Entries 204299
Mean 1.002
Std Dev 0.04252
Underflow 0
Overflow 0
Integral 2.043e+05


TofHitPat Cut:Nhits
Entries 203566
Mean 11.56
Std Dev 4.347
Underflow 0
Overflow 0
Integral 2.036e+05
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
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2
4
6
8
10
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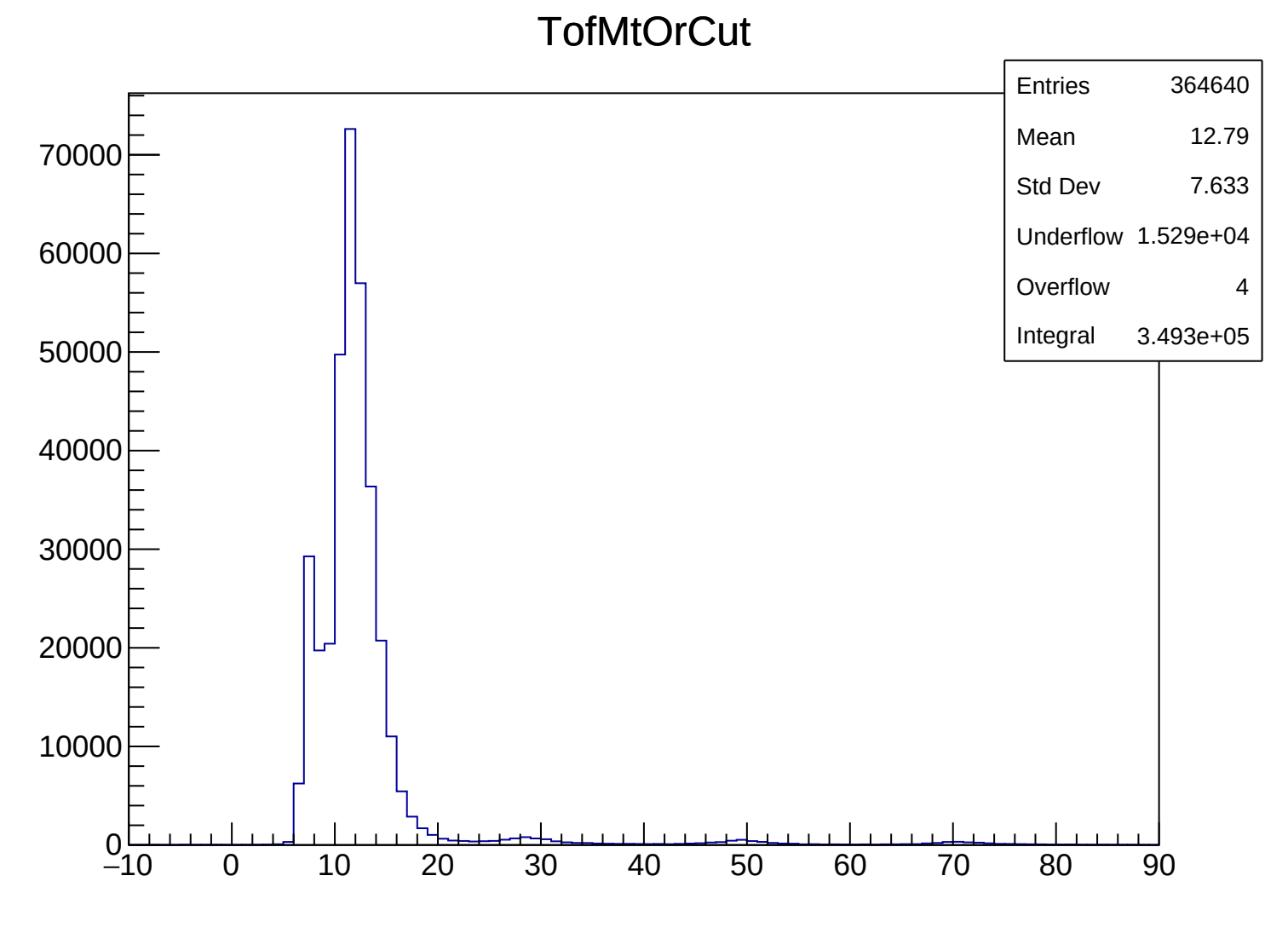
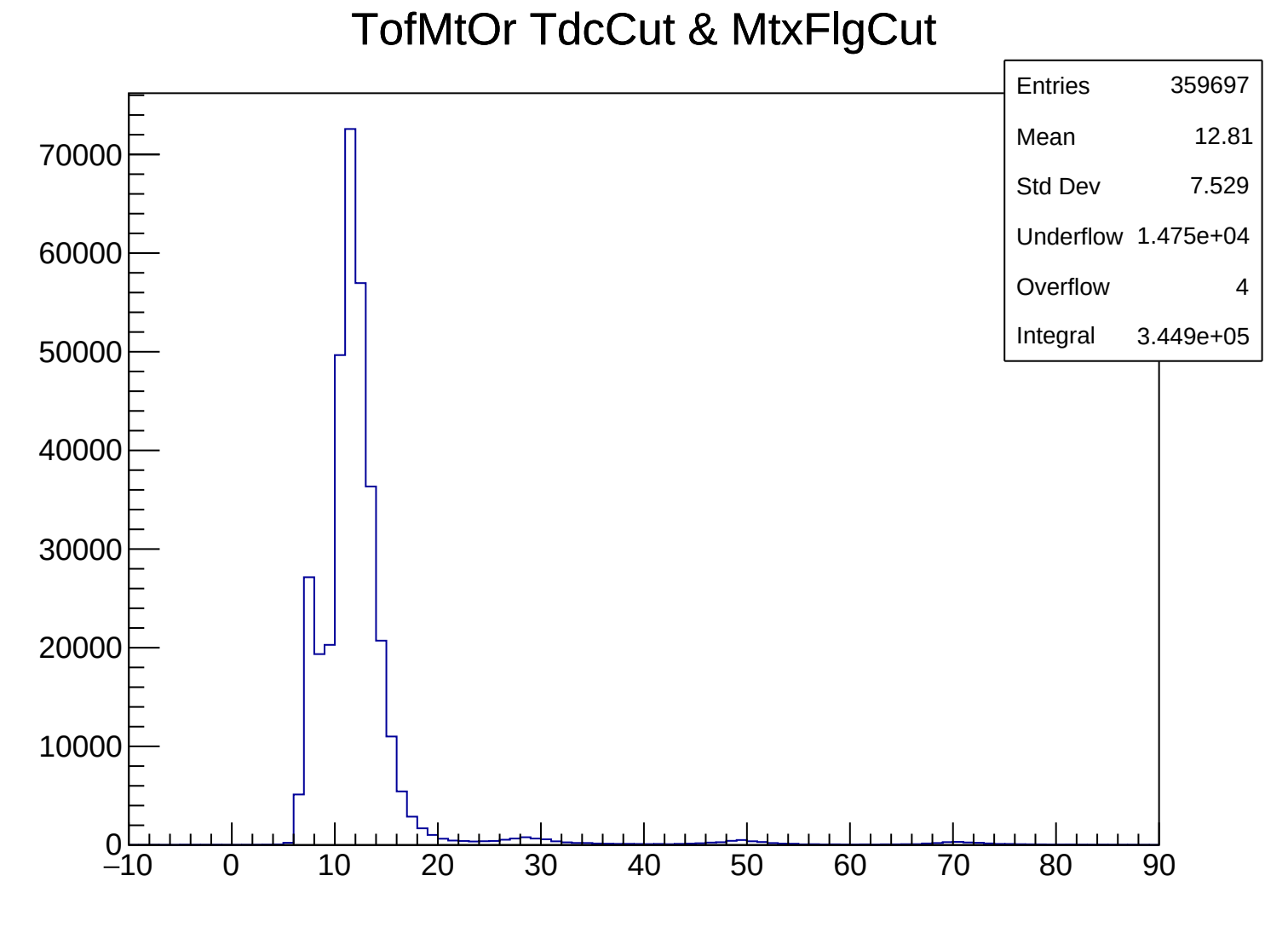
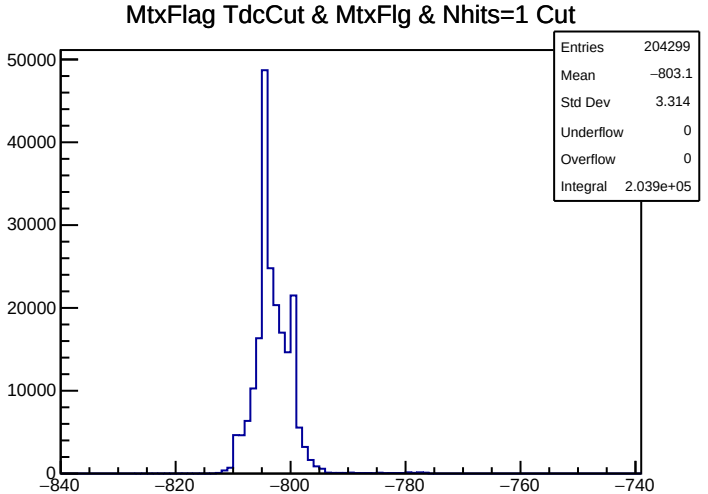
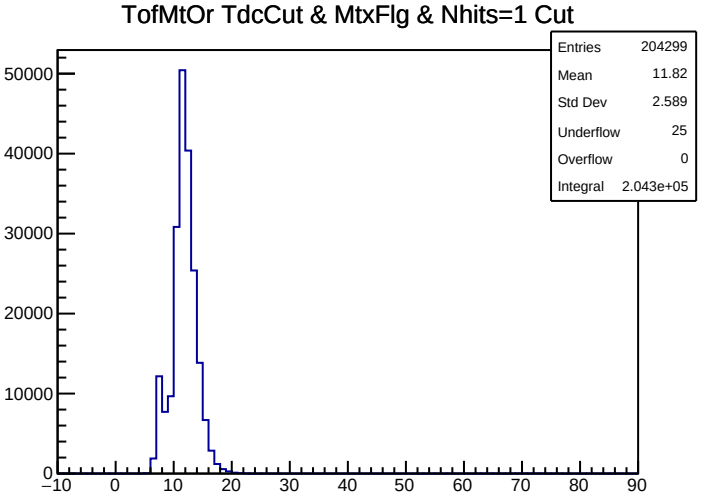
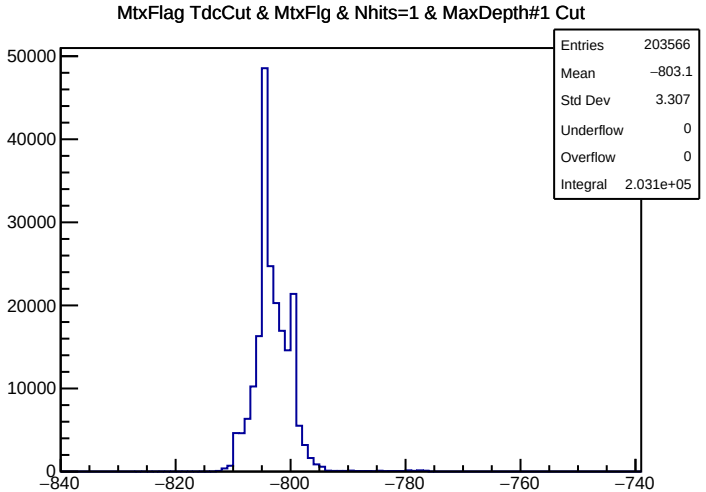
18
20
22
24

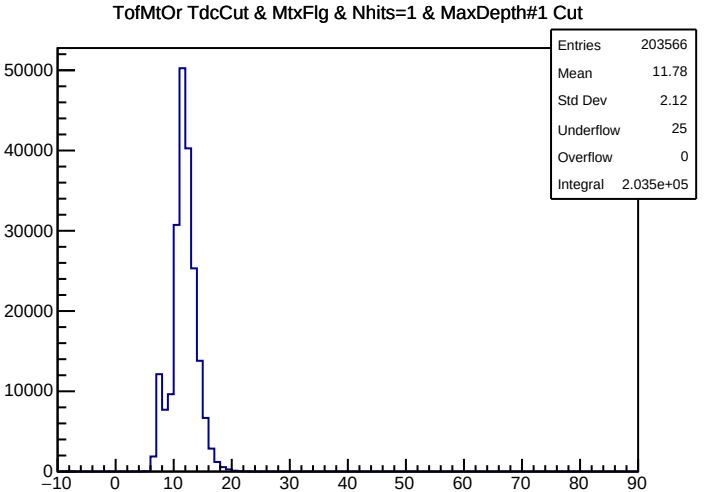

TofMtOrCut
Entries 364640
Mean 12.79
Std Dev 7.633
Underflow 1.529e+04
Overflow 4
Integral 3.493e+05
70000
60000
50000
40000
30000
20000
10000
0
−10
0
10
20
30
40
50
60
70
80
90

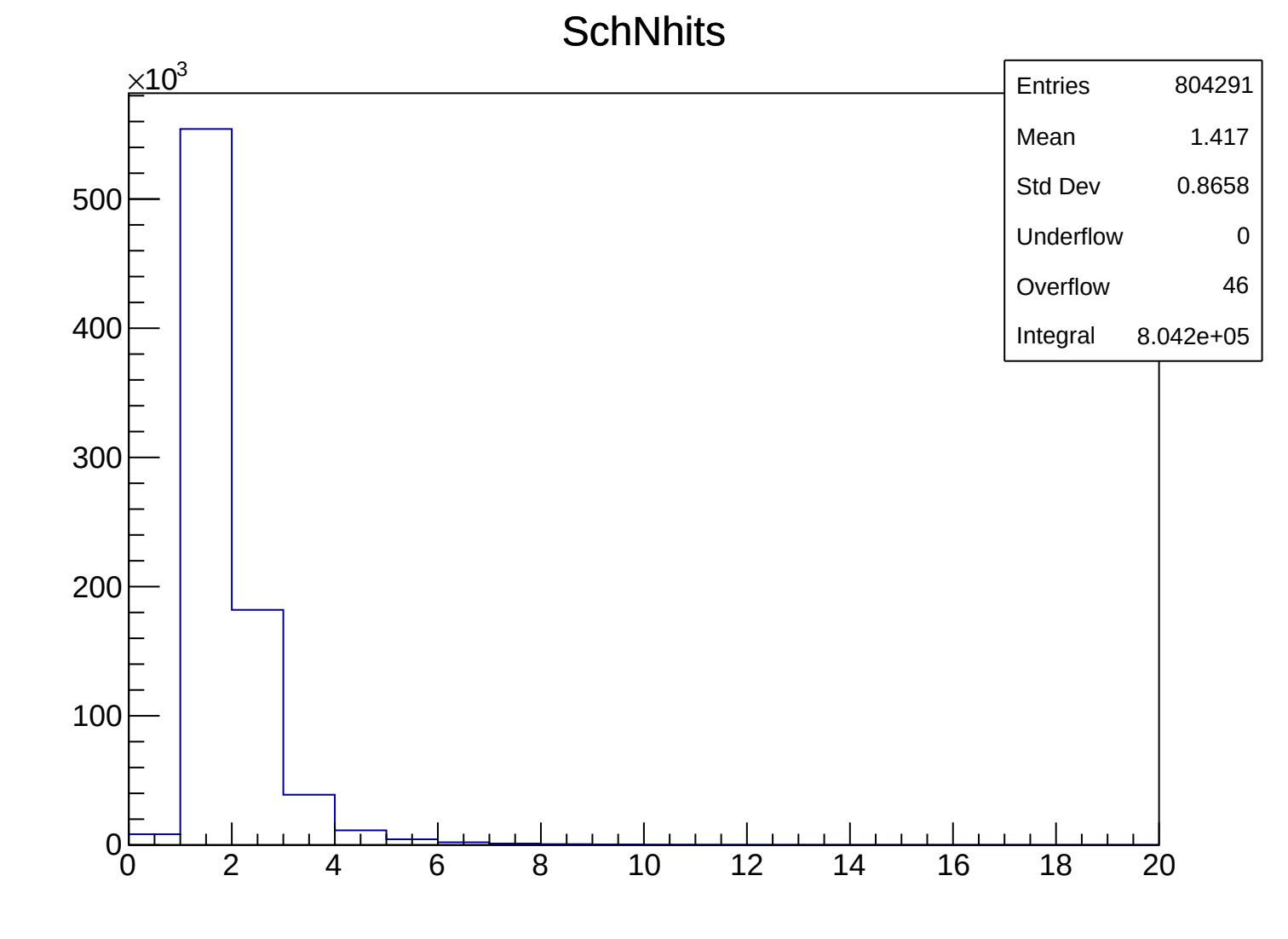

TofMtOr TdcCut & MtxFlgCut
Entries 359697
Mean 12.81
Std Dev 7.529
Underflow 1.475e+04
Overflow 4
Integral 3.449e+05
70000
60000
50000
40000
30000
20000
10000
0
−10
0
10
20
30
40
50
60
70
80
90

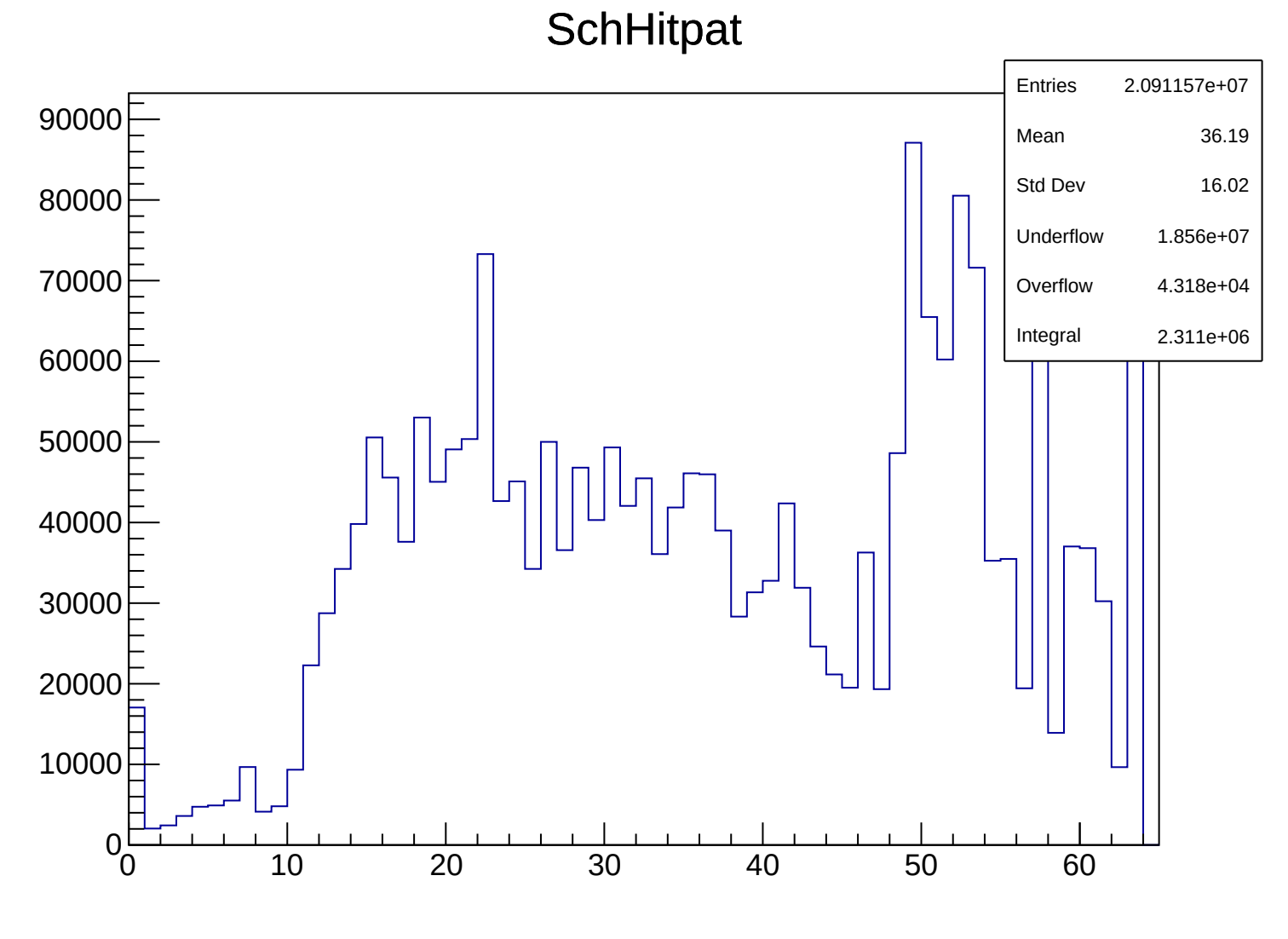

MtxFlag TdcCut & MtxFlg & Nhits=1 Cut
Entries 204299
Mean −803.1
Std Dev 3.314
Underflow 0
Overflow 0
Integral 2.039e+05
50000
40000
30000
20000
10000
0
−840
−820
−800
−780
−760
−740

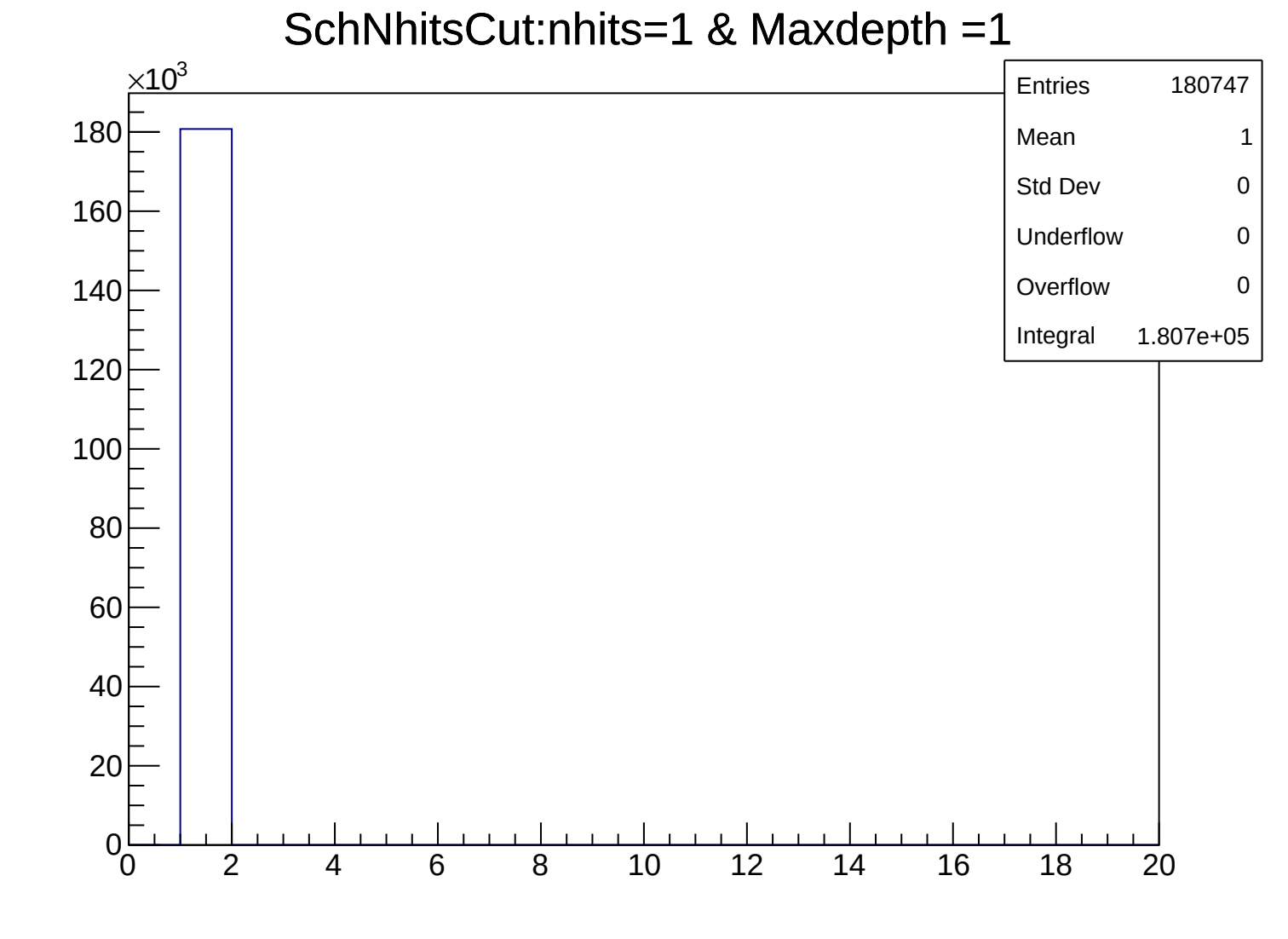

TofMtOr TdcCut & MtxFlg & Nhits=1 Cut
Entries 204299
Mean 11.82
Std Dev 2.589
Underflow 25
Overflow 0
Integral 2.043e+05
50000
40000
30000
20000
10000
0
−10
0
10
20
30
40
50
60
70
80
90

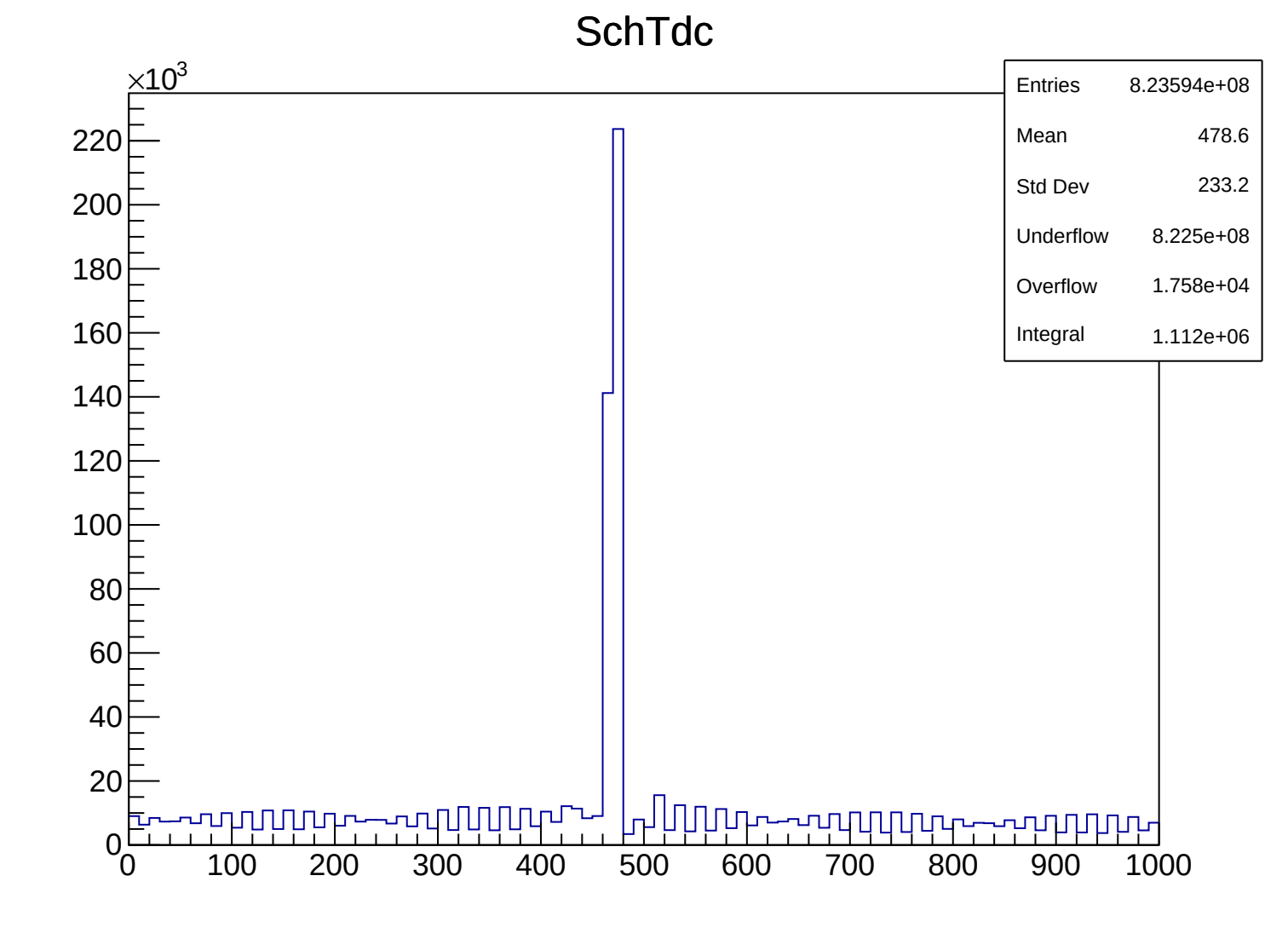

MtxFlag TdcCut & MtxFlg & Nhits=1 & MaxDepth#1 Cut
Entries 203566
Mean −803.1
Std Dev 3.307
Underflow 0
Overflow 0
Integral 2.031e+05
50000
40000
30000
20000
10000
0
−840
−820
−800
−780
−760
−740

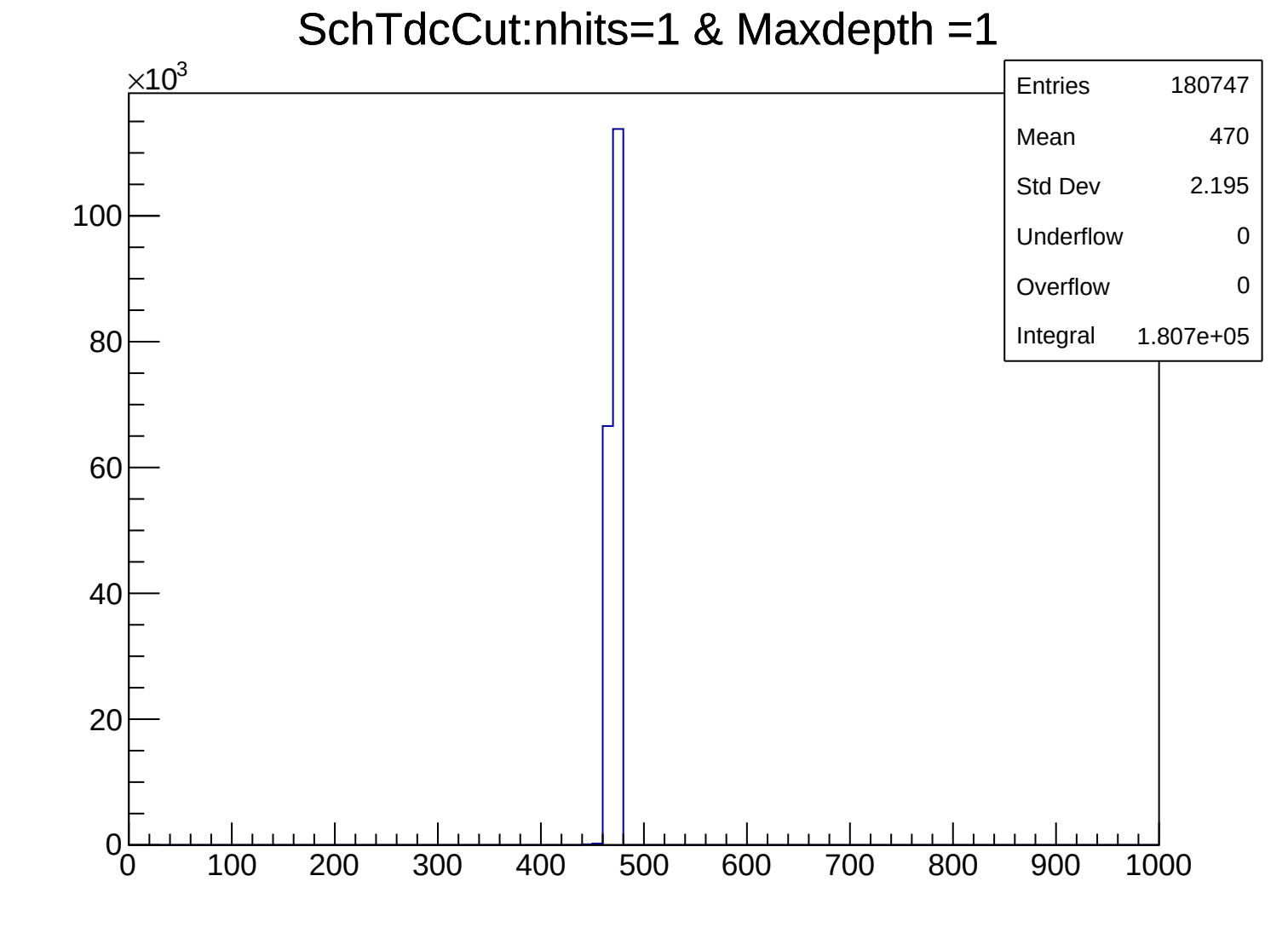

TofMtOr TdcCut & MtxFlg & Nhits=1 & MaxDepth#1 Cut
Entries 203566
Mean 11.78
Std Dev 2.12
Underflow 25
Overflow 0
Integral 2.035e+05
50000
40000
30000
20000
10000
0
−10
0
10
20
30
40
50
60
70
80
90

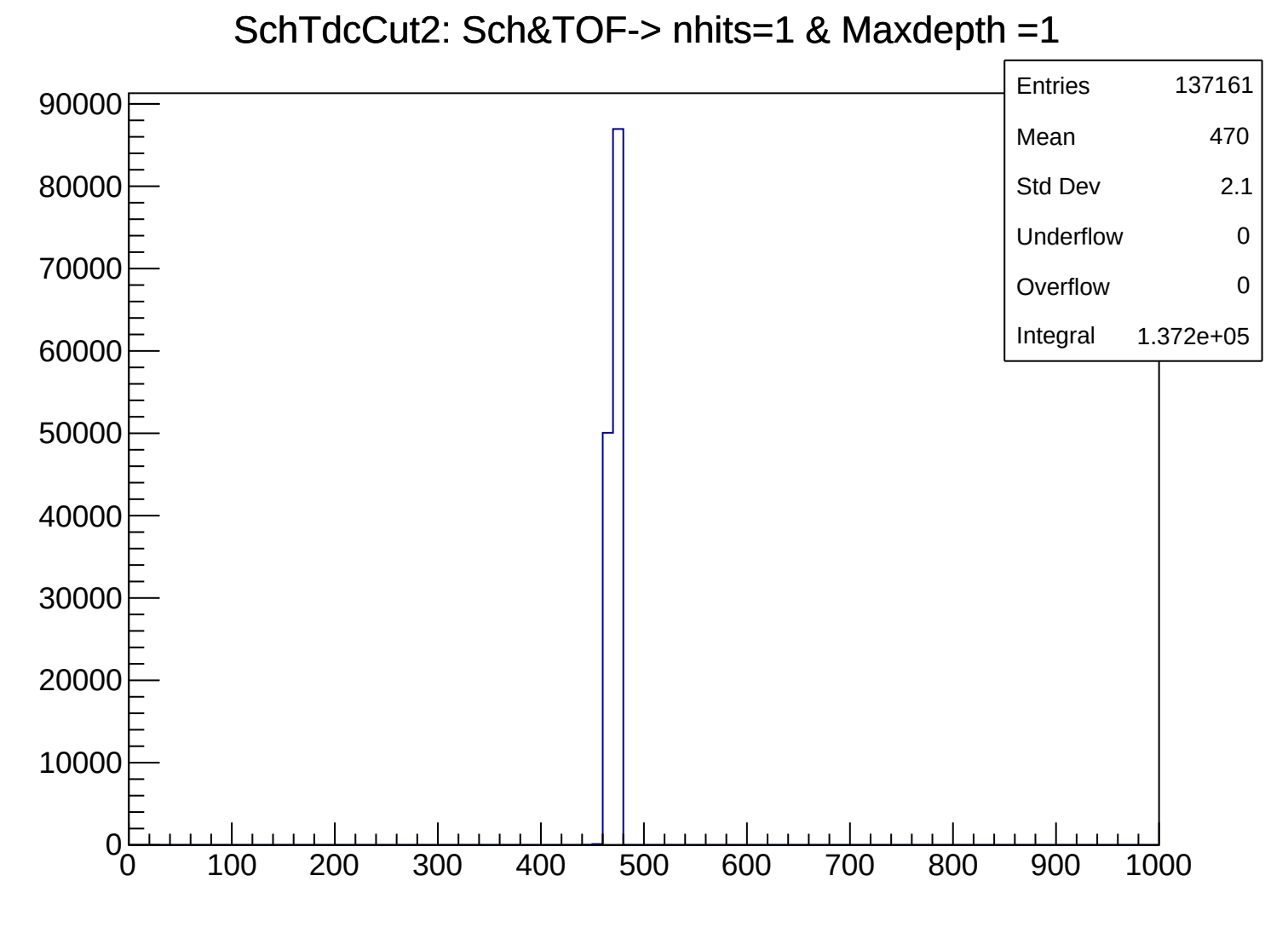

SchNhits
×10^3
500
400
300
200
100
0
0
2
4
6
8
10
12
14
16
18
20
Entries 804291
Mean 1.417
Std Dev 0.8658
Underflow 0
Overflow 46
Integral 8.042e+05

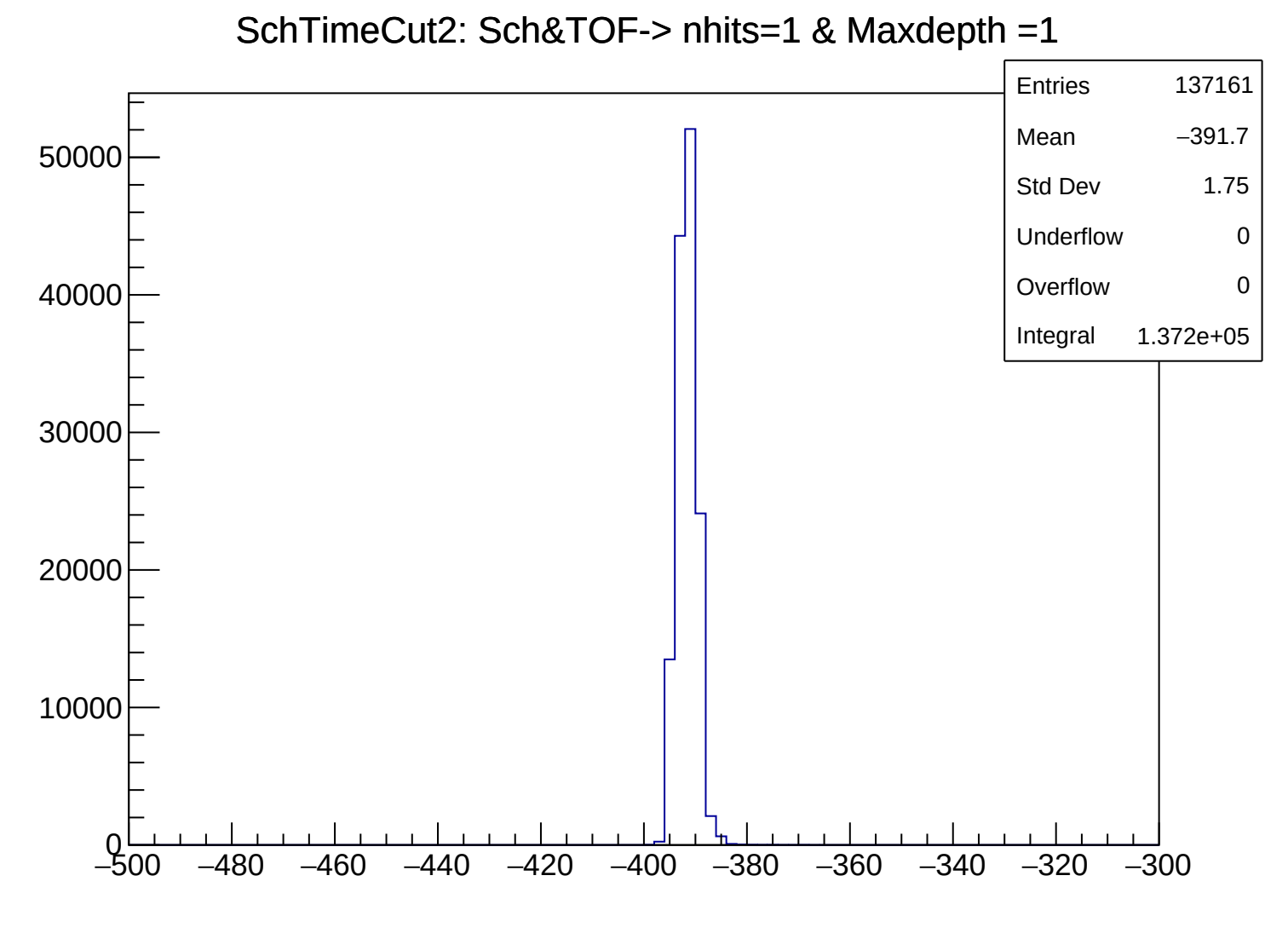

SchHitpat
Entries 2.091157e+07
Mean 36.19
Std Dev 16.02
Underflow 1.856e+07
Overflow 4.318e+04
Integral 2.311e+06
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
10
20
30
40
50
60

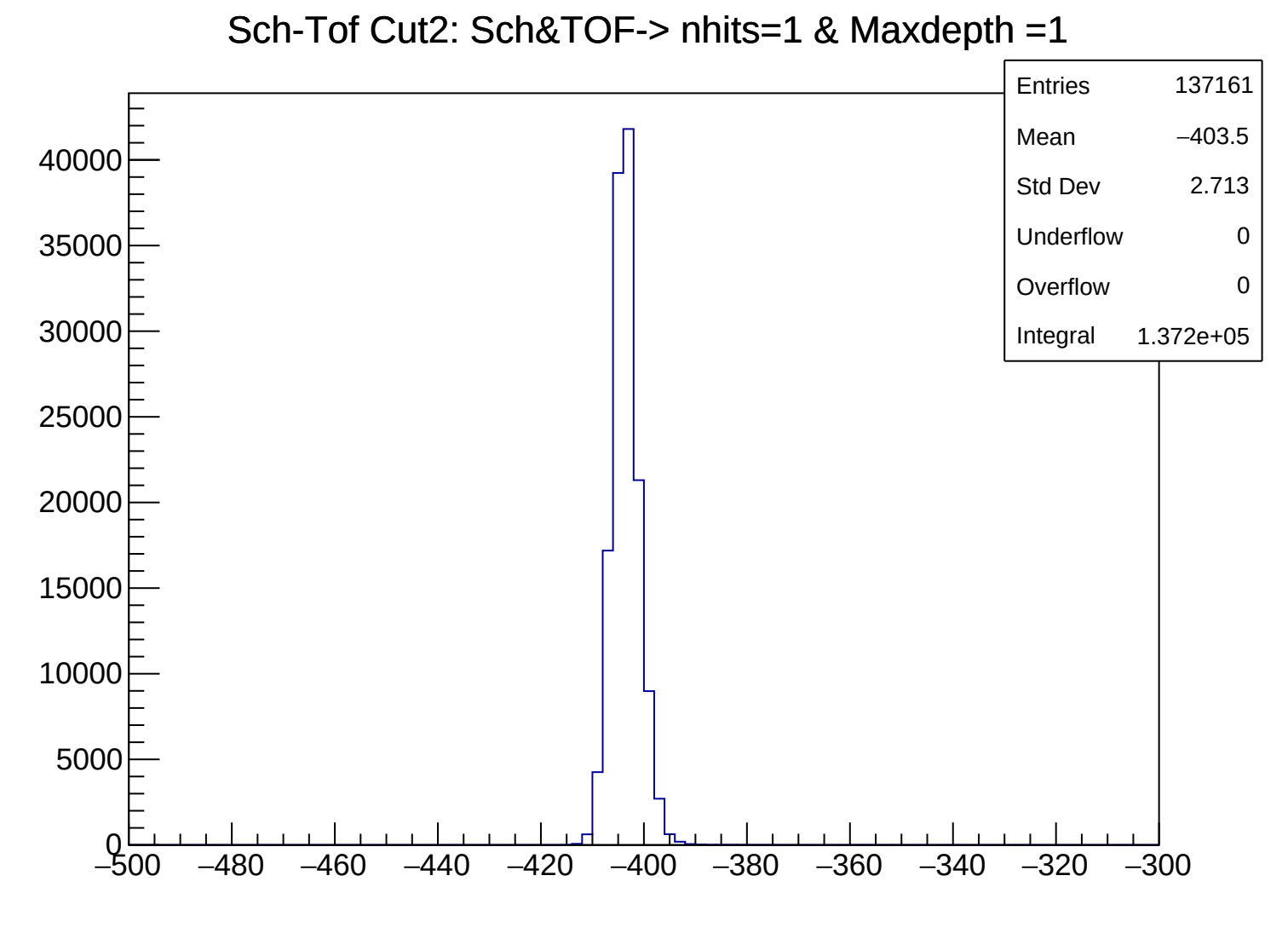

SchNhitsCut:nhits=1 & Maxdepth =1
×10^3
180
160
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Entries 180747
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 1.807e+05

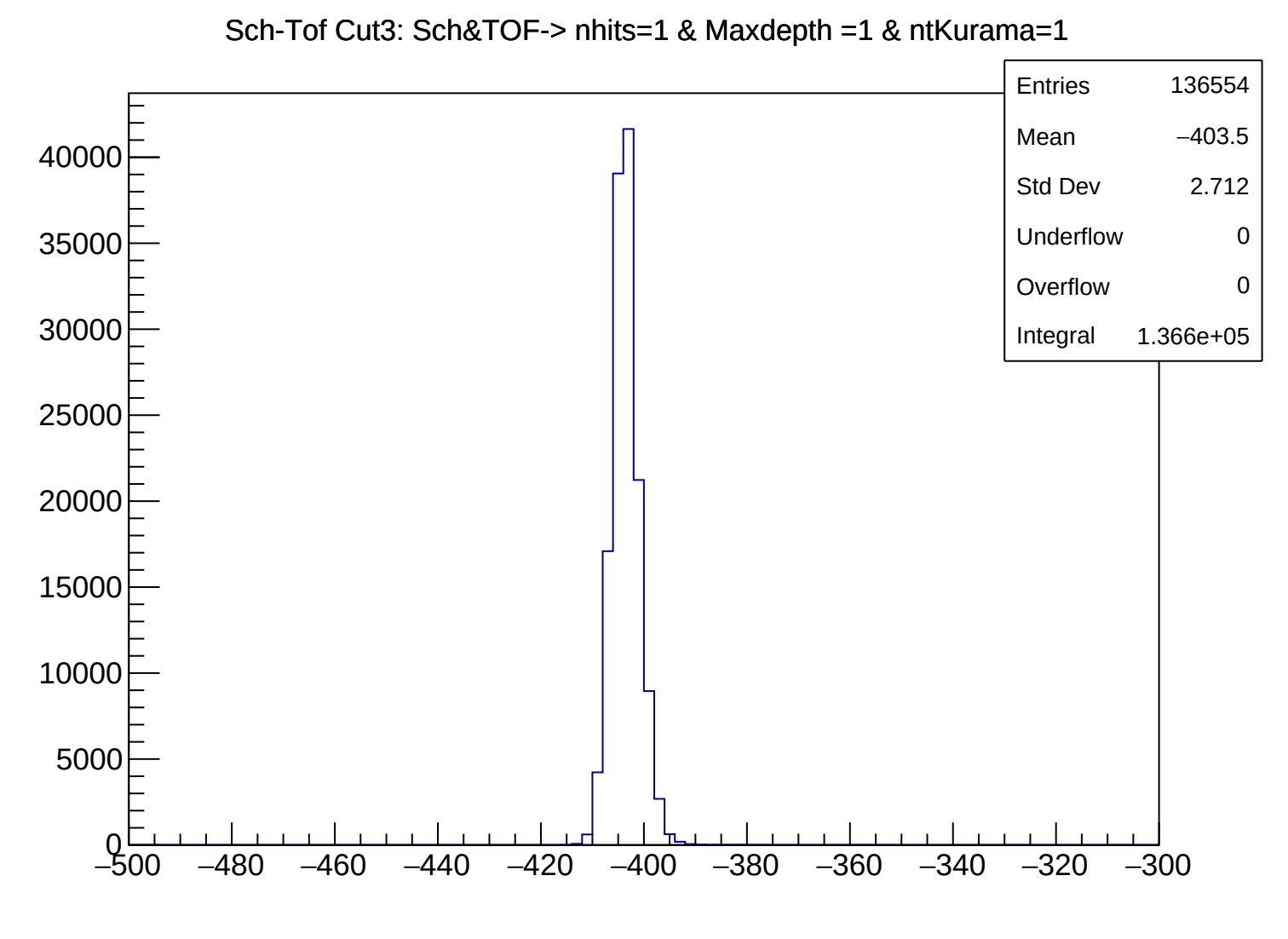

SchTdc
×10^3
220
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
600
700
800
900
1000
Entries 8.23594e+08
Mean 478.6
Std Dev 233.2
Underflow 8.225e+08
Overflow 1.758e+04
Integral 1.112e+06

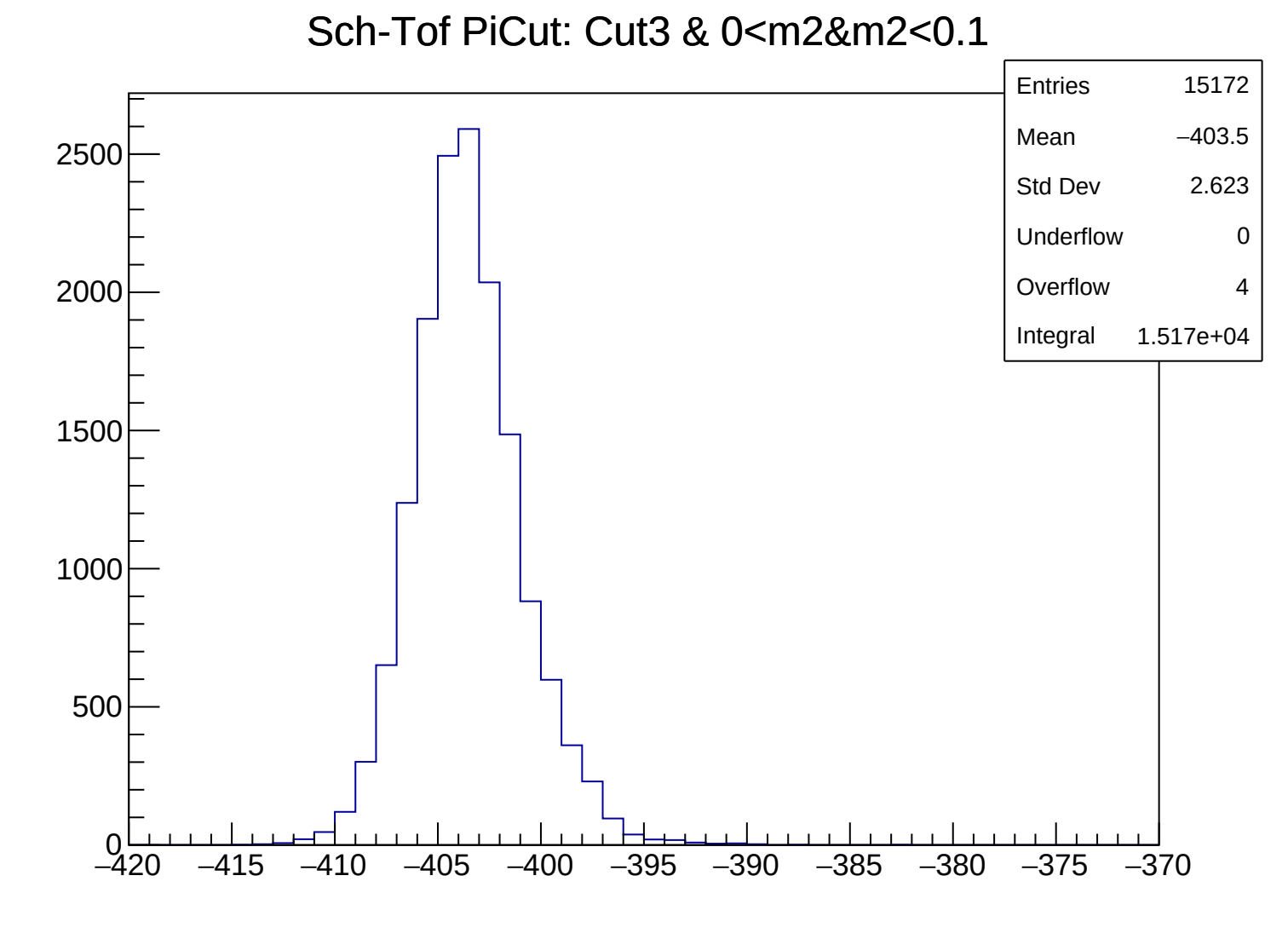

SchTdcCut:nhits=1 & Maxdepth =1
×10^3
100
80
60
40
20
0
0
100
200
300
400
500
600
700
800
900
1000
Entries 180747
Mean 470
Std Dev 2.195
Underflow 0
Overflow 0
Integral 1.807e+05

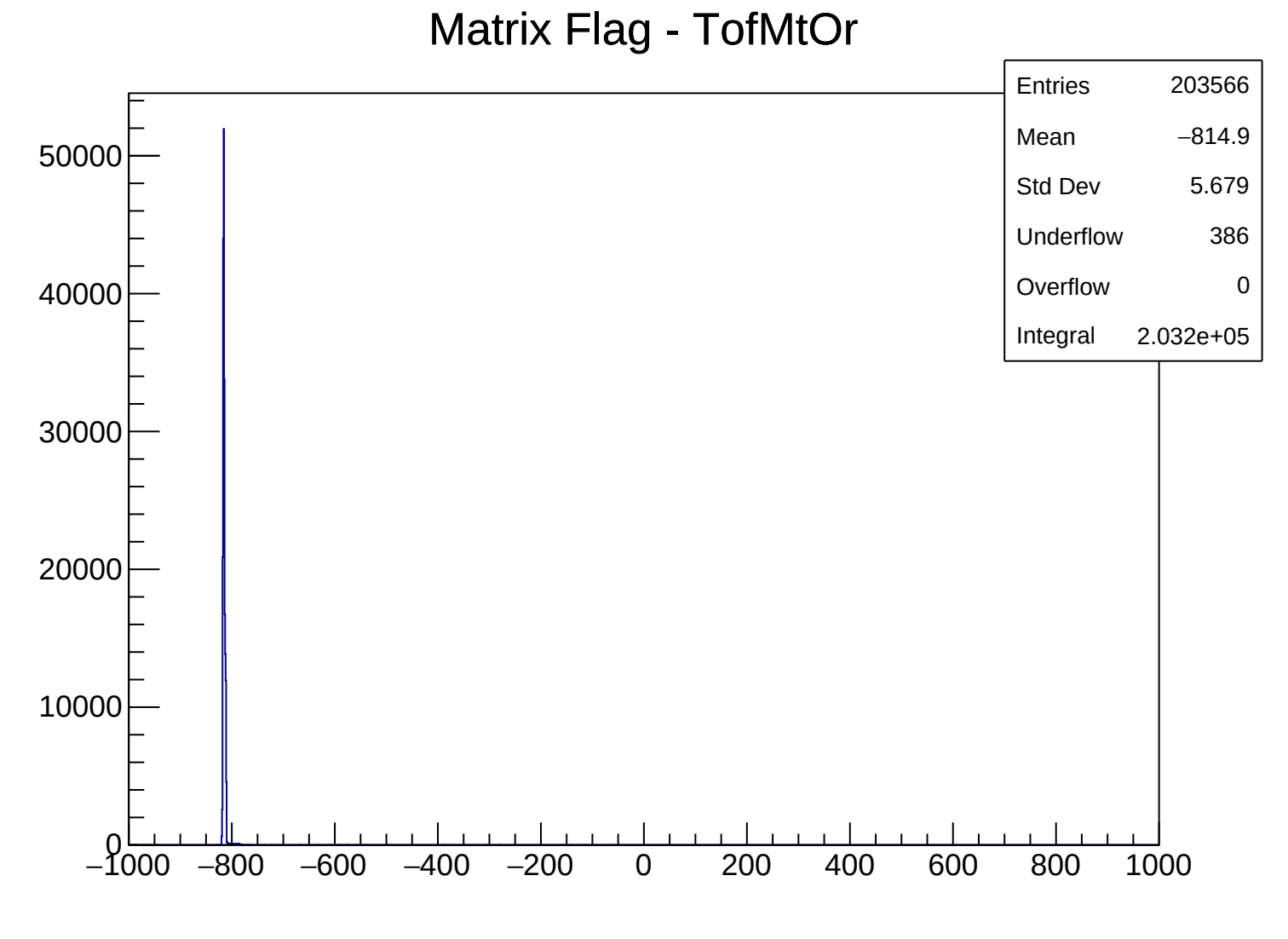

SchTdcCut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 137161
Mean 470
Std Dev 2.1
Underflow 0
Overflow 0
Integral 1.372e+05
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0
100
200
300
400
500
600
700
800
900
1000

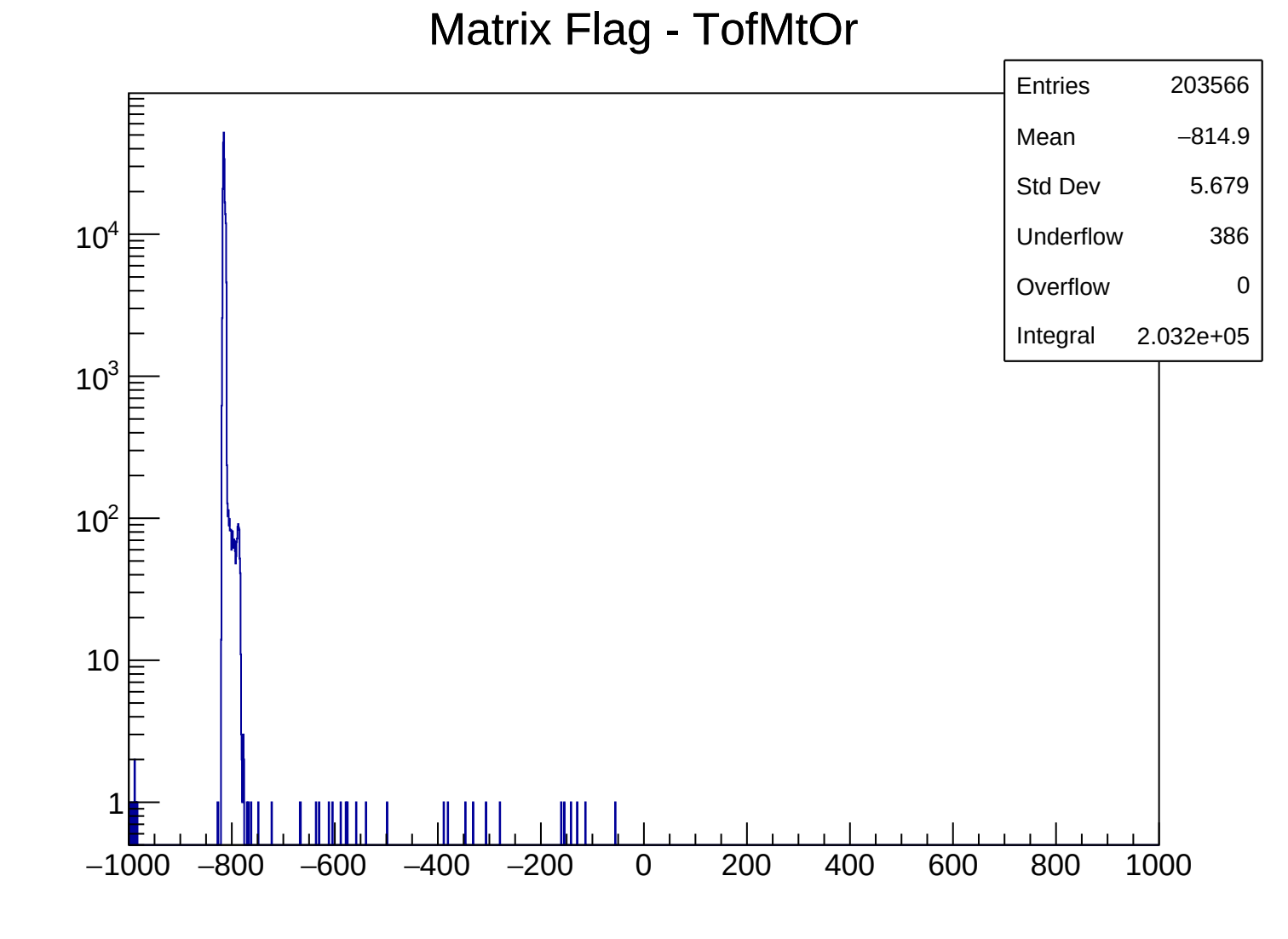

SchTimeCut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 137161
Mean −391.7
Std Dev 1.75
Underflow 0
Overflow 0
Integral 1.372e+05
50000
40000
30000
20000
10000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

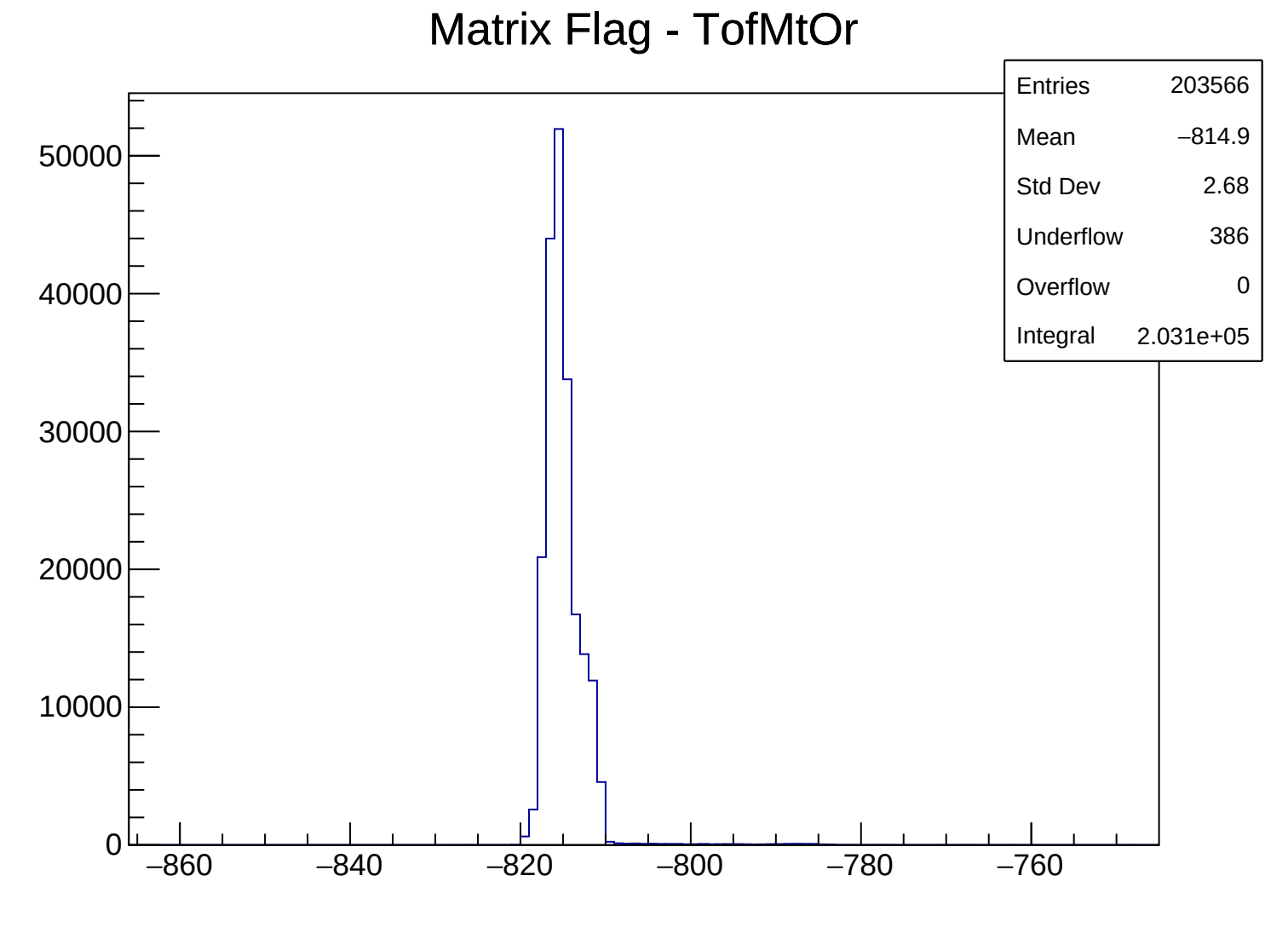

Sch-Tof Cut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 137161
Mean −403.5
Std Dev 2.713
Underflow 0
Overflow 0
Integral 1.372e+05
40000
35000
30000
25000
20000
15000
10000
5000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

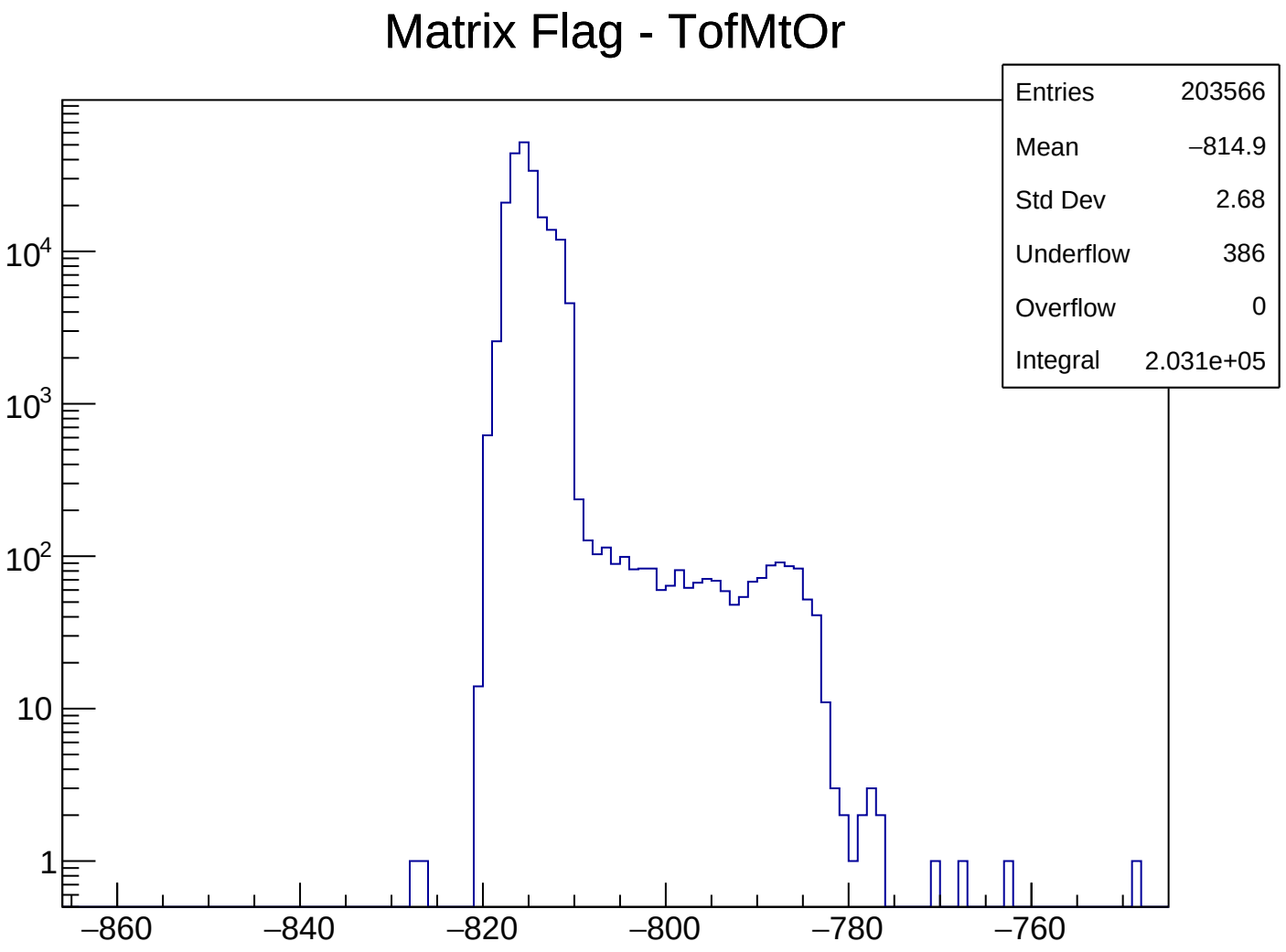

Sch-Tof Cut3: Sch&TOF-> nhits=1 & Maxdepth =1 & ntKurama=1
Entries 136554
Mean −403.5
Std Dev 2.712
Underflow 0
Overflow 0
Integral 1.366e+05
40000
35000
30000
25000
20000
15000
10000
5000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

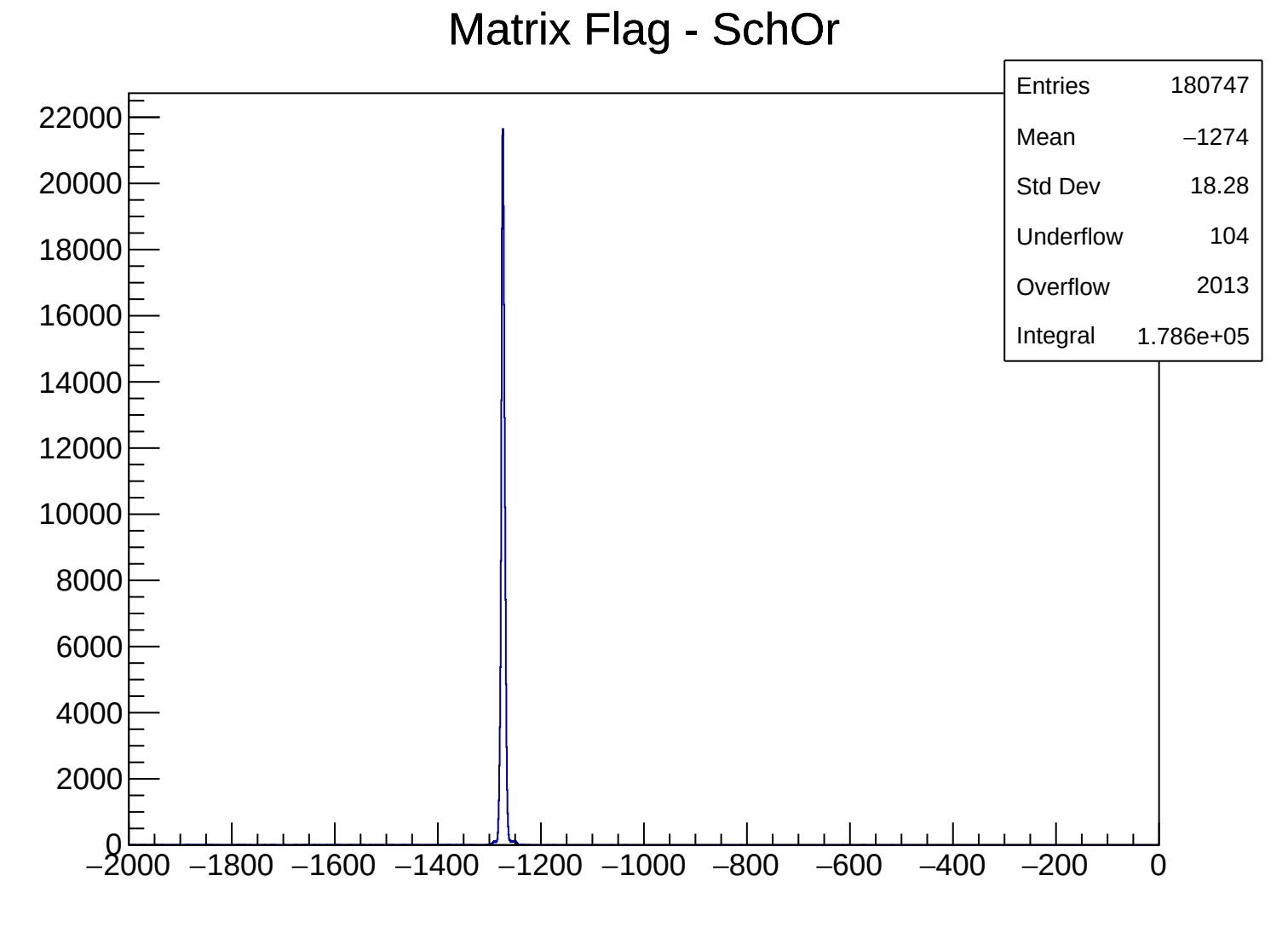

Sch-Tof PiCut: Cut3 & 0<m2&m2<0.1
Entries 15172
Mean −403.5
Std Dev 2.623
Underflow 0
Overflow 4
Integral 1.517e+04
2500
2000
1500
1000
500
0
−420
−415
−410
−405
−400
−395
−390
−385
−380
−375
−370

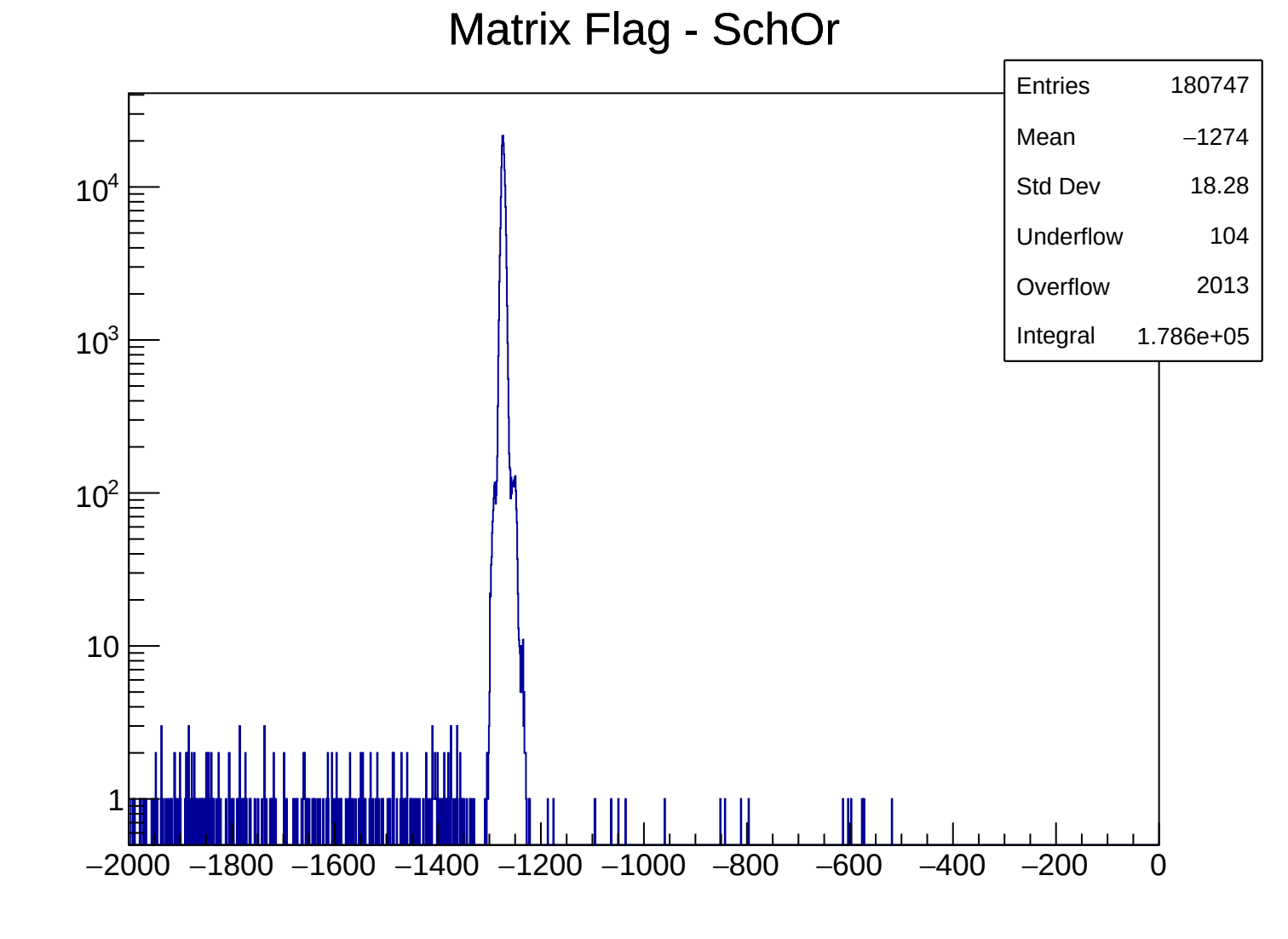

Matrix Flag - TofMtOr
Entries 203566
Mean −814.9
Std Dev 5.679
Underflow 386
Overflow 0
Integral 2.032e+05
50000
40000
30000
20000
10000
0
−1000
−800
−600
−400
−200
0
200
400
600
800
1000

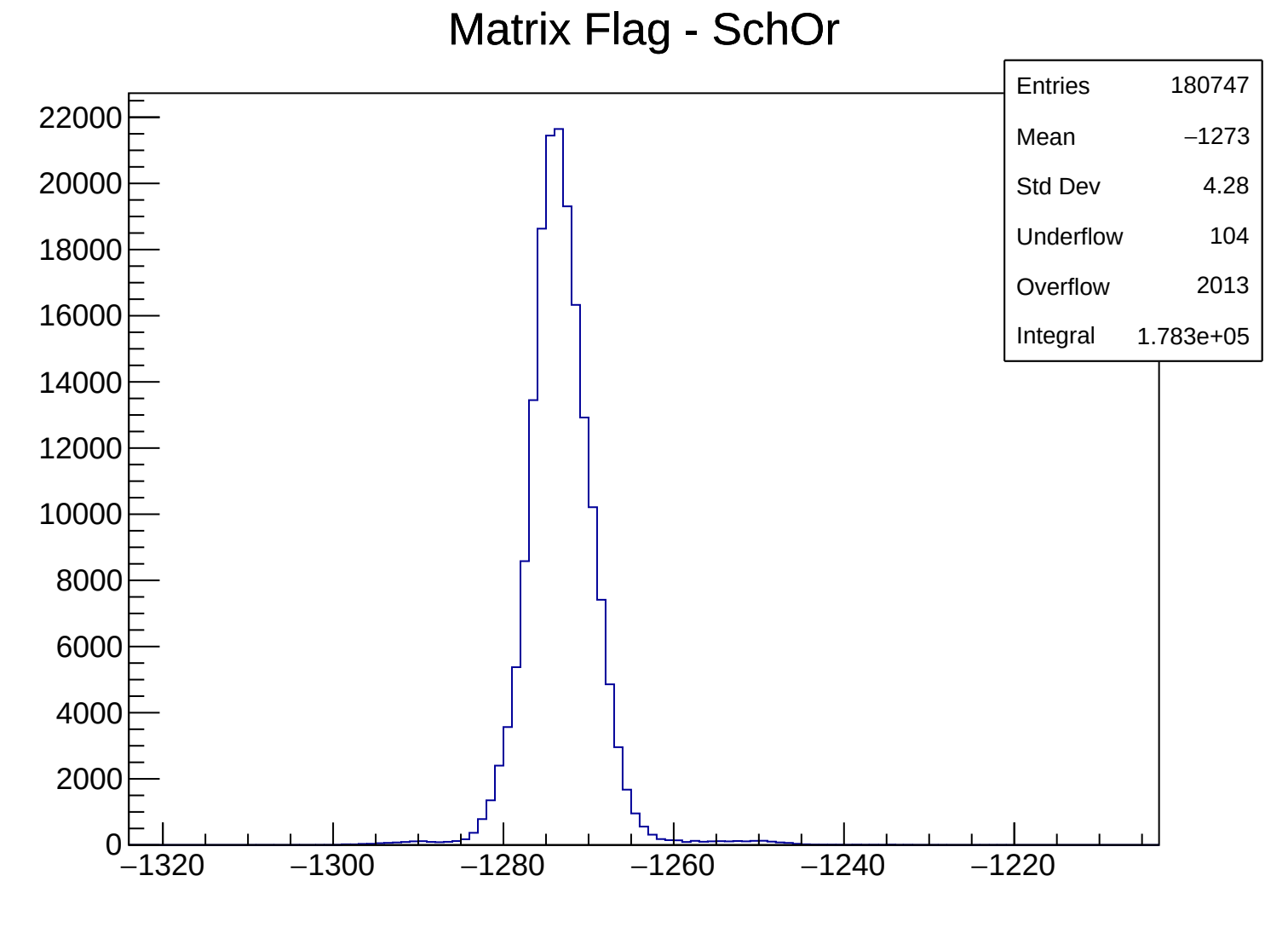

Matrix Flag - TofMtOr
Entries 203566
Mean −814.9
Std Dev 5.679
Underflow 386
Overflow 0
Integral 2.032e+05
10^4
10^3
10^2
10
1
−1000 −800 −600 −400 −200 0 200 400 600 800 1000

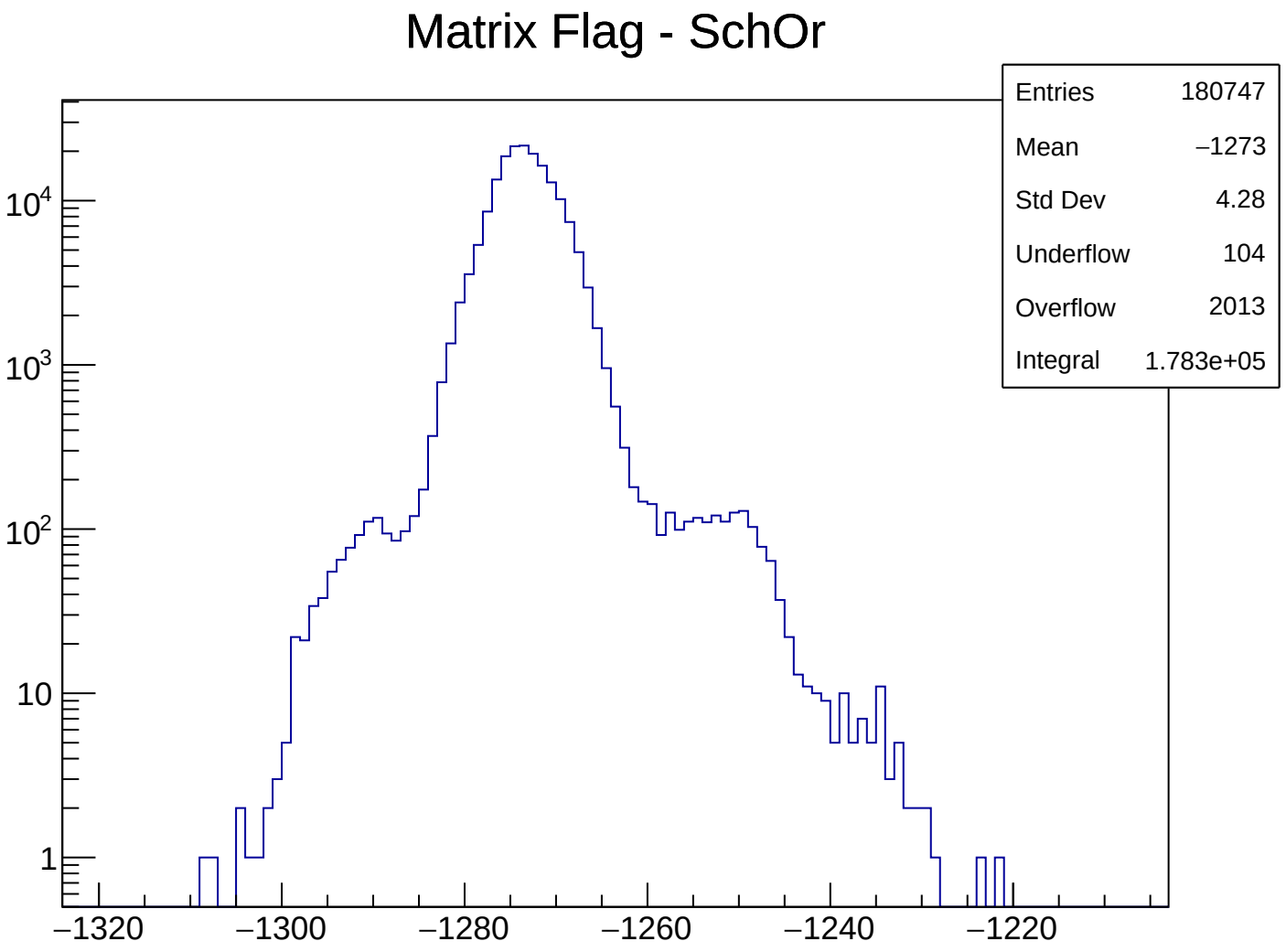

Matrix Flag - TofMtOr
Entries 203566
Mean −814.9
Std Dev 2.68
Underflow 386
Overflow 0
Integral 2.031e+05
50000
40000
30000
20000
10000
0
−860
−840
−820
−800
−780
−760

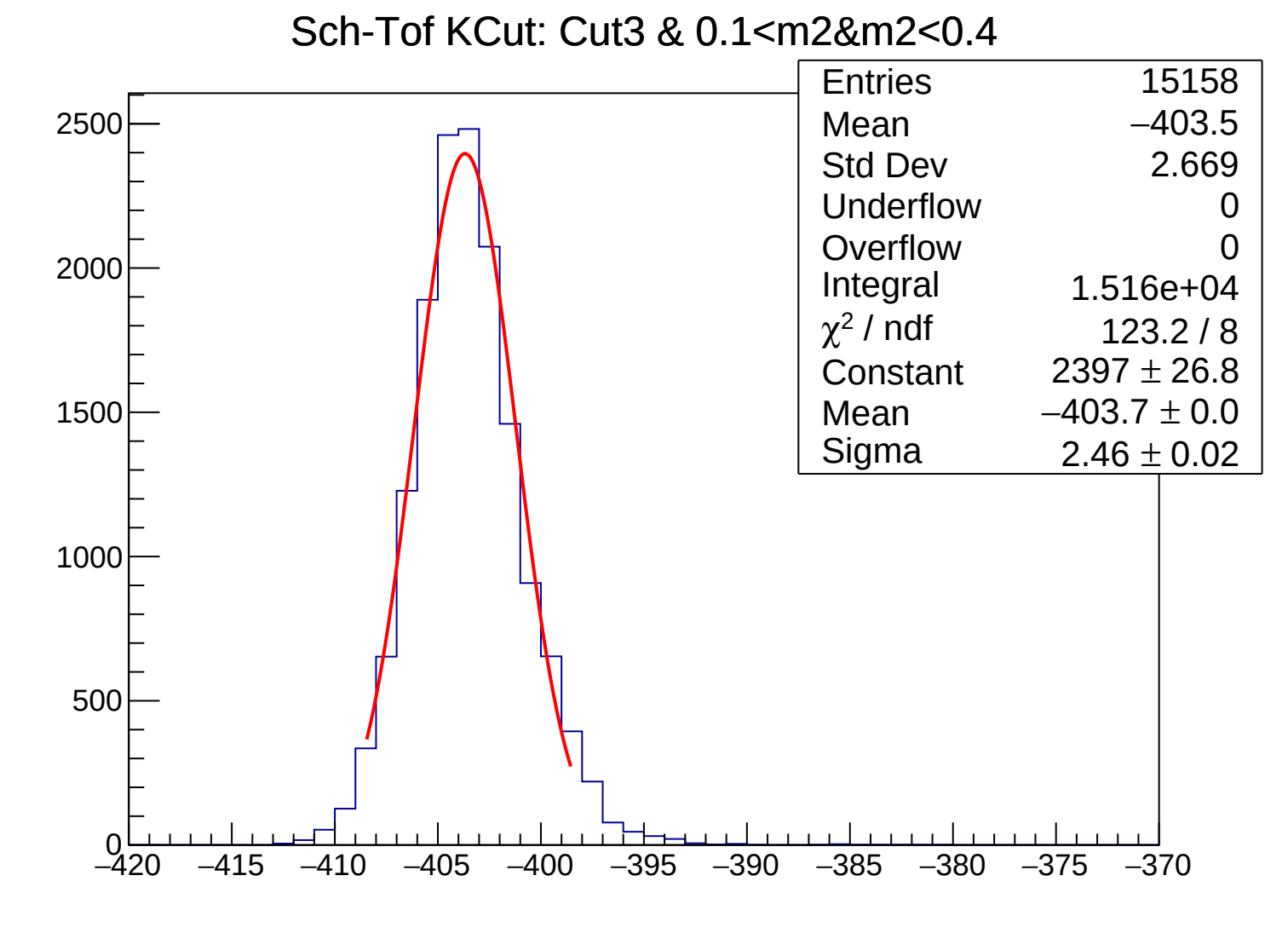

Matrix Flag - TofMtOr
Entries 203566
Mean −814.9
Std Dev 2.68
Underflow 386
Overflow 0
Integral 2.031e+05
10^4
10^3
10^2
10
1
−860
−840
−820
−800
−780
−760

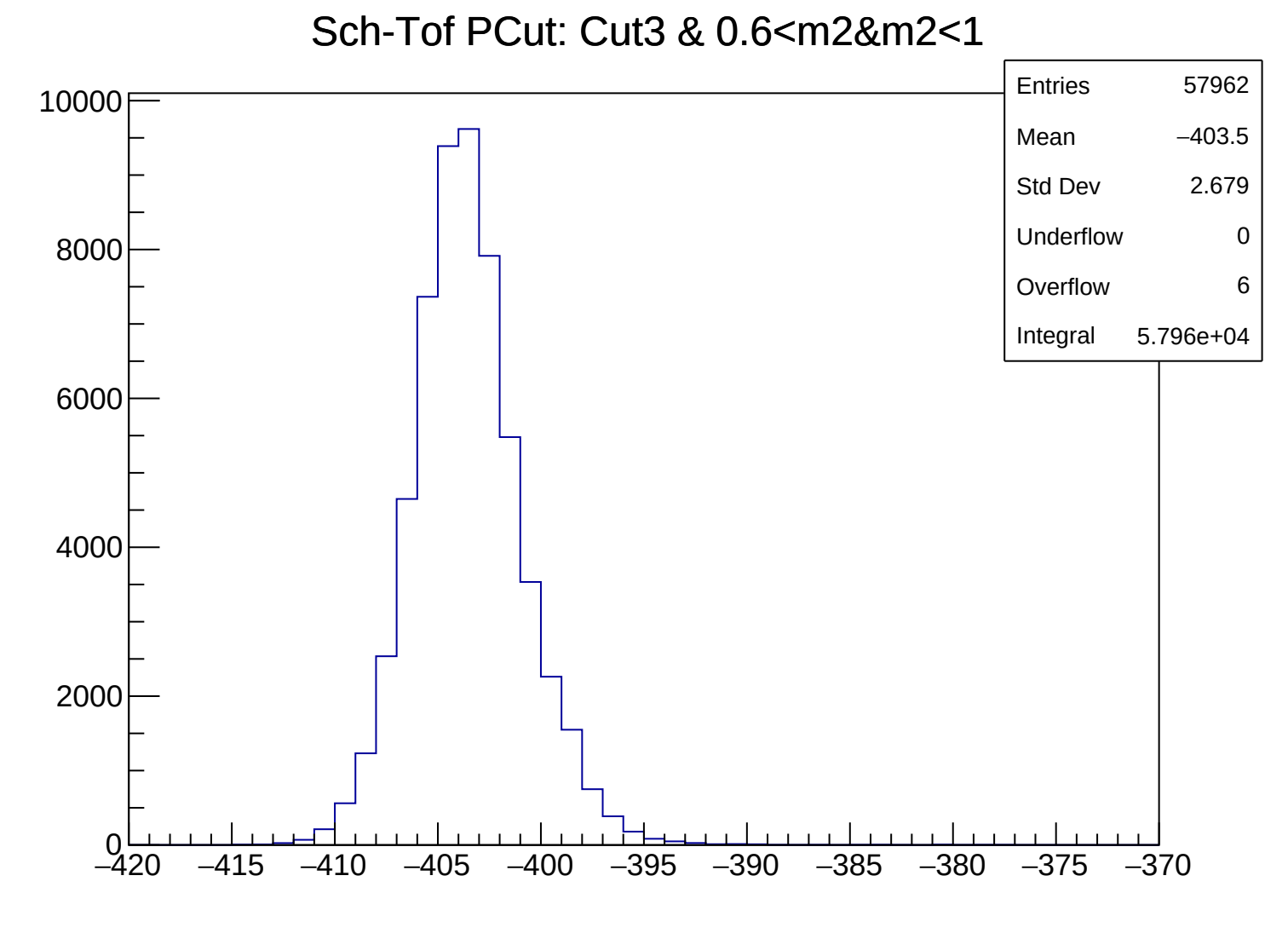

Matrix Flag - SchOr
Entries 180747
Mean −1274
Std Dev 18.28
Underflow 104
Overflow 2013
Integral 1.786e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
−1800
−1600
−1400
−1200
−1000
−800
−600
−400
−200
0

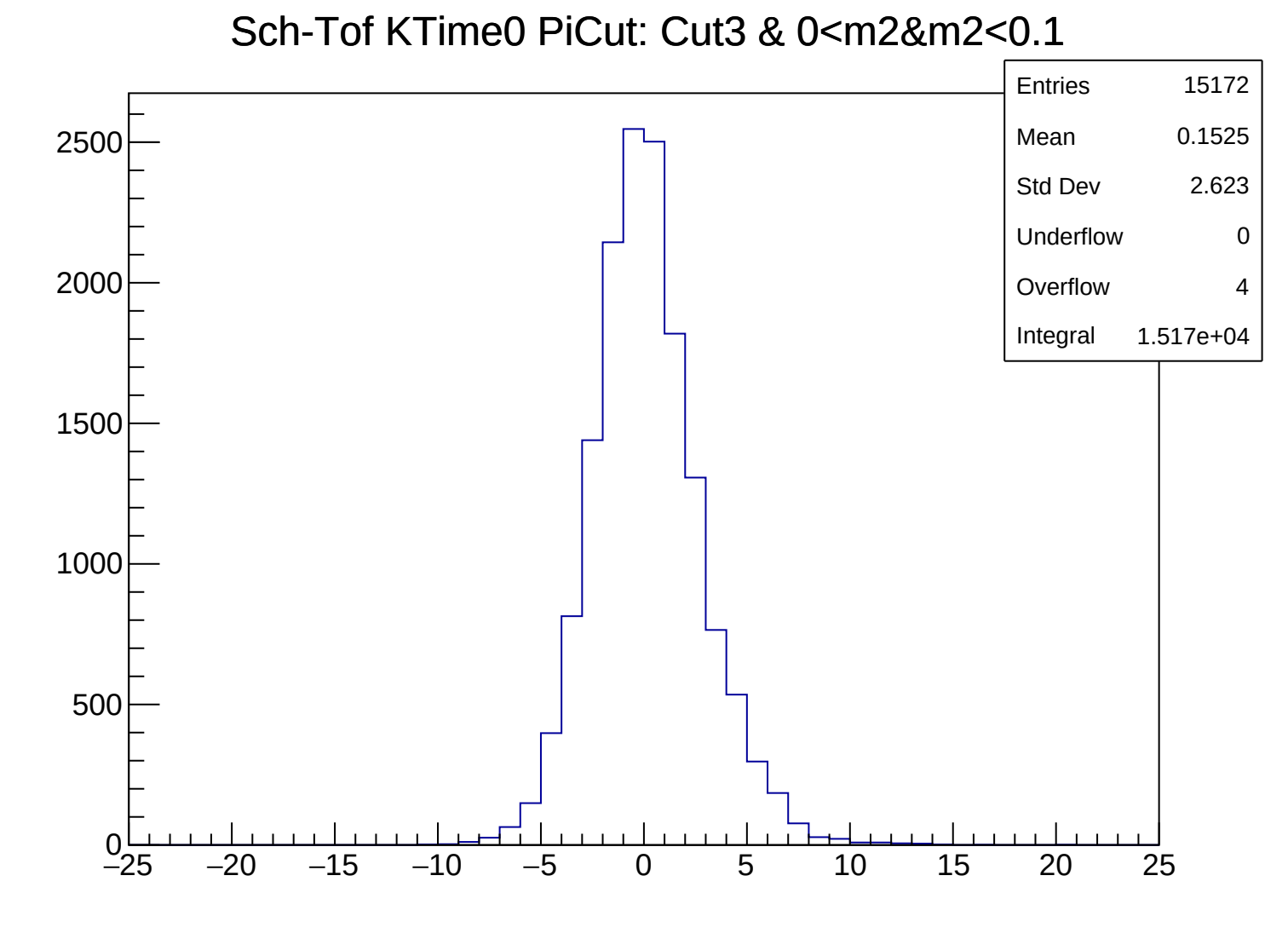

Matrix Flag - SchOr
Entries 180747
Mean −1274
Std Dev 18.28
Underflow 104
Overflow 2013
Integral 1.786e+05
10^4
10^3
10^2
10
1
−2000 −1800 −1600 −1400 −1200 −1000 −800 −600 −400 −200 0

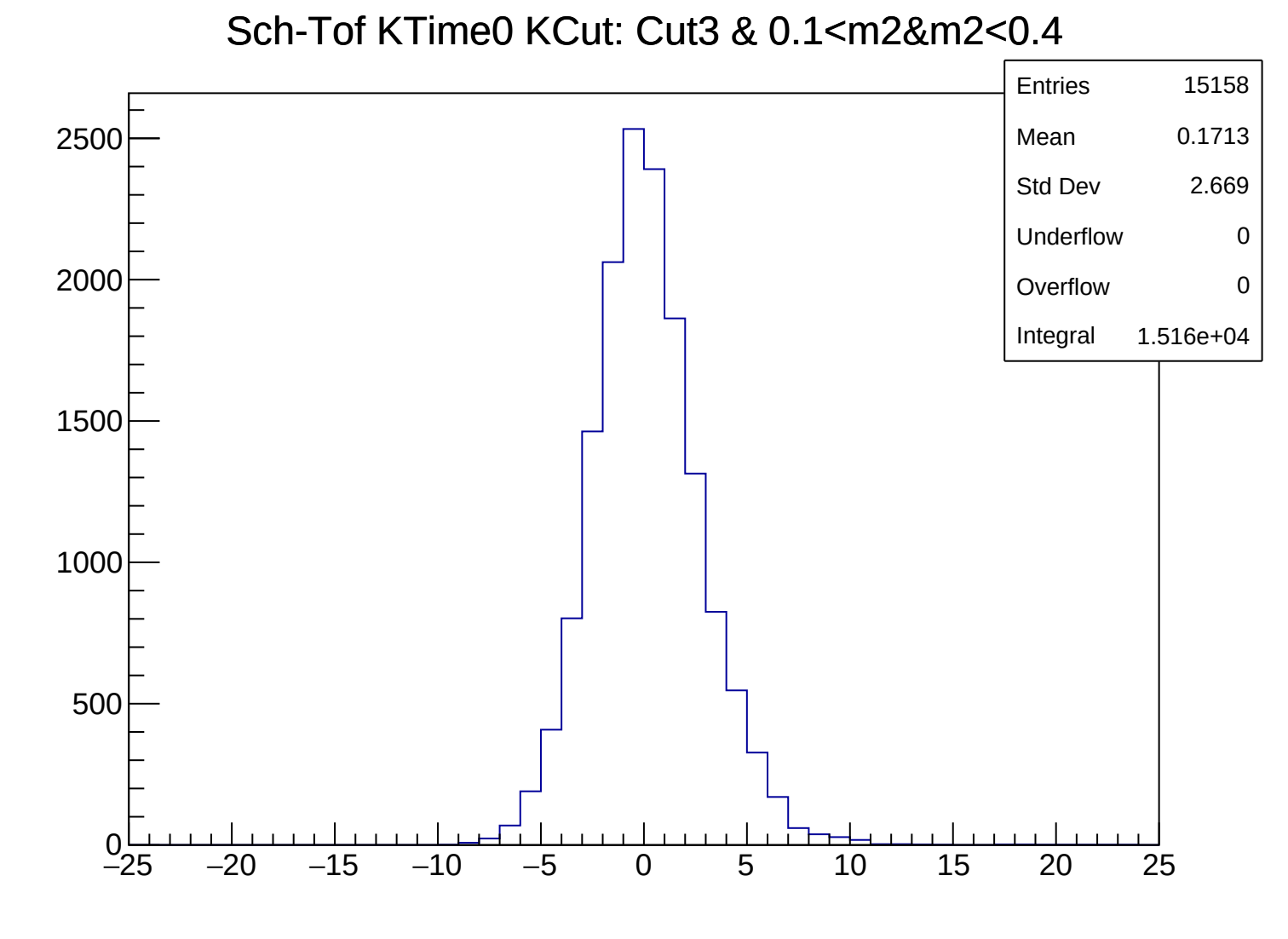

Matrix Flag - SchOr
Entries 180747
Mean −1273
Std Dev 4.28
Underflow 104
Overflow 2013
Integral 1.783e+05
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−1320
−1300
−1280
−1260
−1240
−1220

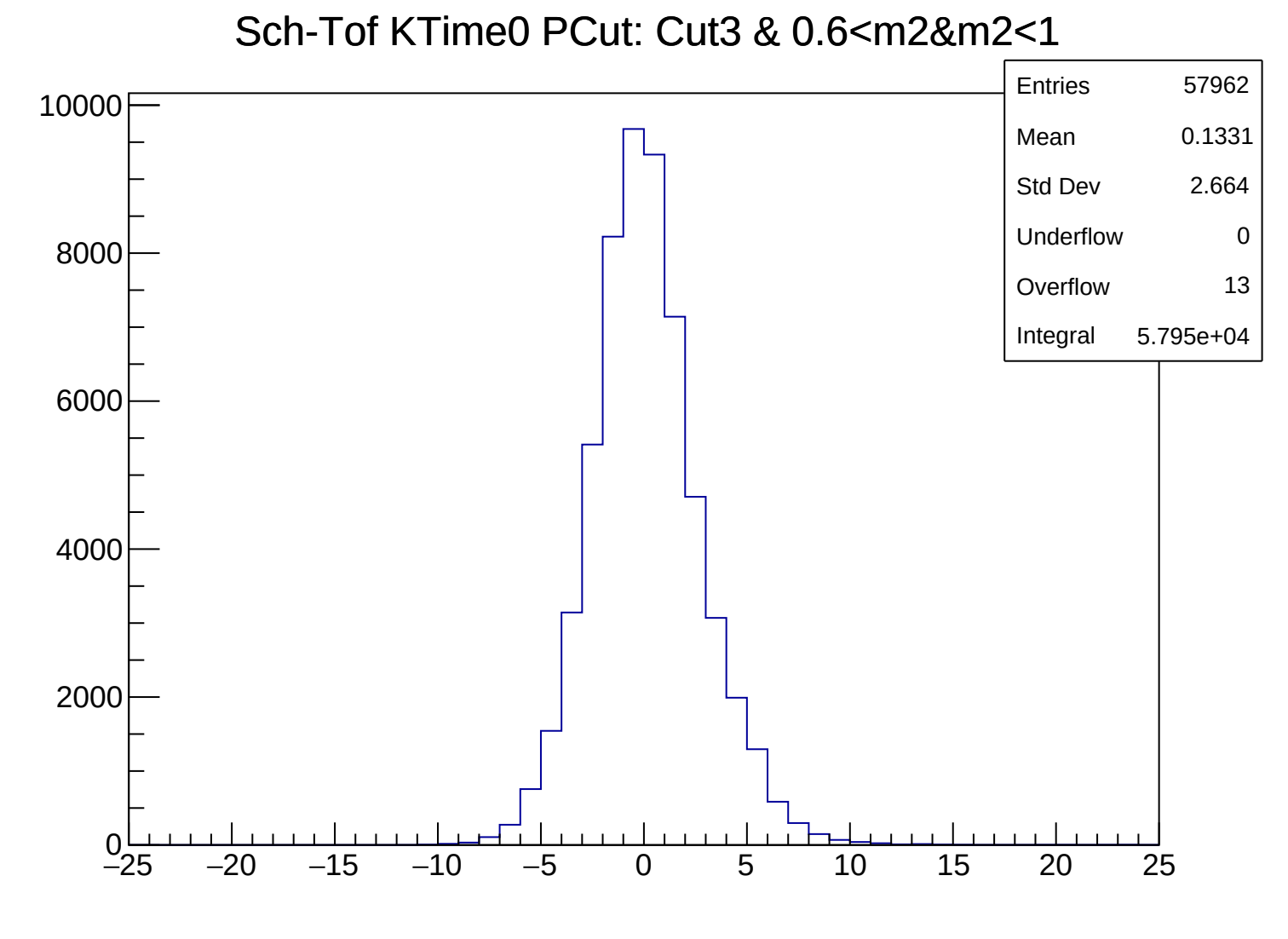

Matrix Flag - SchOr
Entries 180747
Mean −1273
Std Dev 4.28
Underflow 104
Overflow 2013
Integral 1.783e+05
10^4
10^3
10^2
10
1
−1320
−1300
−1280
−1260
−1240
−1220

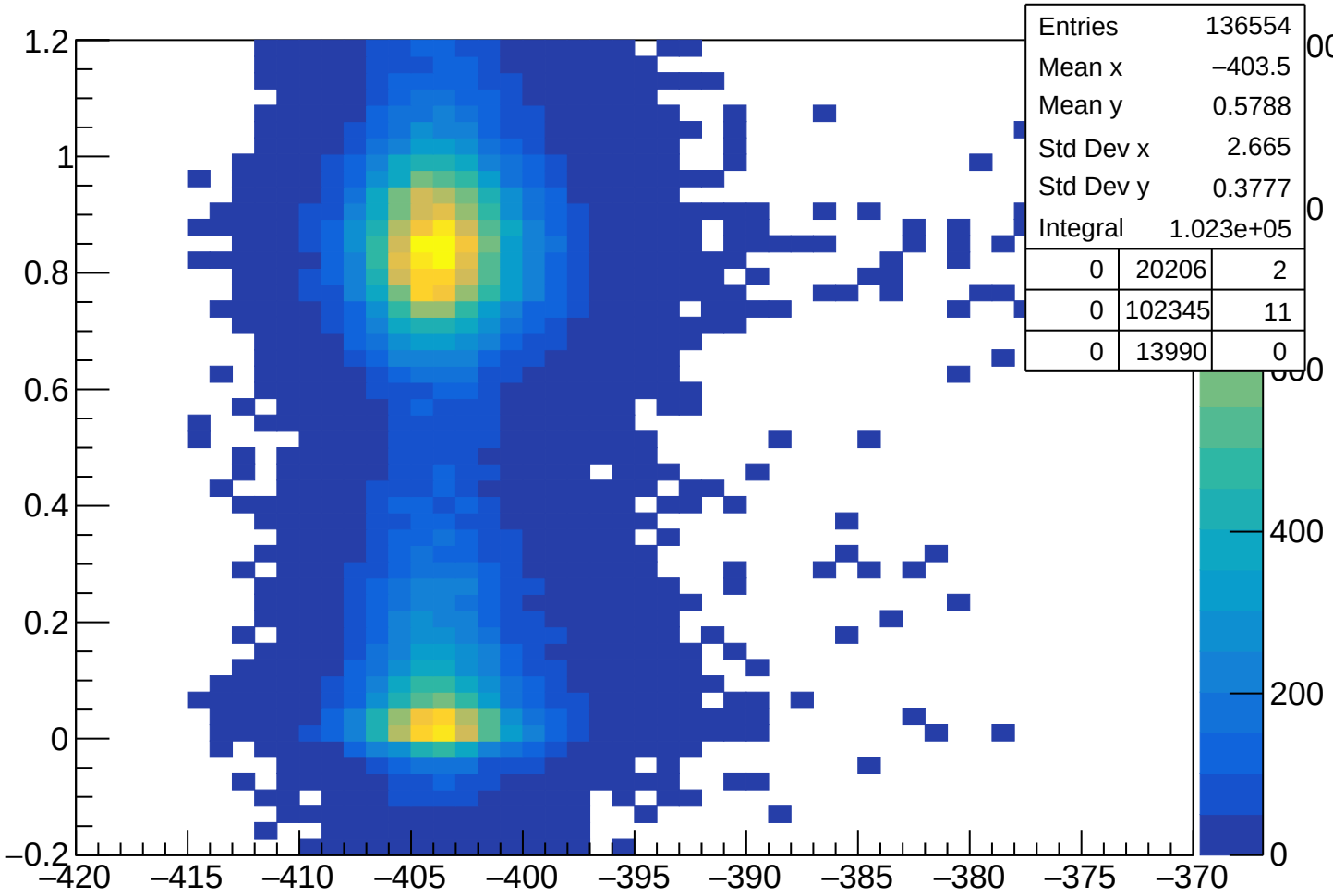

Sch-Tof KCut: Cut3 & 0.1<m2&m2<0.4
Entries 15158
Mean –403.5
Std Dev 2.669
Underflow 0
Overflow 0
Integral 1.516e+04
χ² / ndf 123.2 / 8
Constant 2397 ± 26.8
Mean –403.7 ± 0.0
Sigma 2.46 ± 0.02
2500
2000
1500
1000
500
0
–420
–415
–410
–405
–400
–395
–390
–385
–380
–375
–370

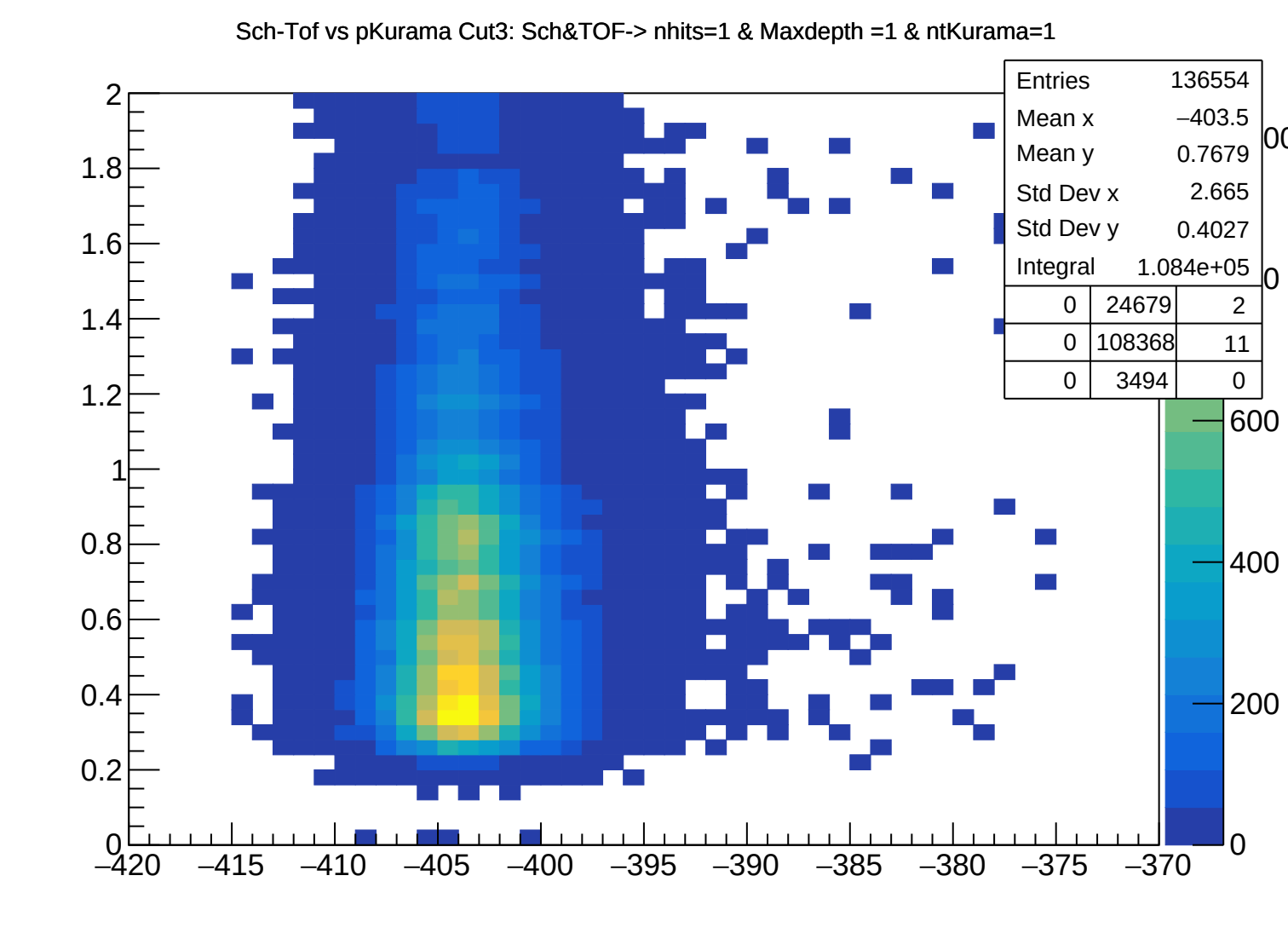

Sch-Tof PCut: Cut3 & 0.6<m2&m2<1
Entries 57962
Mean −403.5
Std Dev 2.679
Underflow 0
Overflow 6
Integral 5.796e+04
10000
8000
6000
4000
2000
0
−420
−415
−410
−405
−400
−395
−390
−385
−380
−375
−370

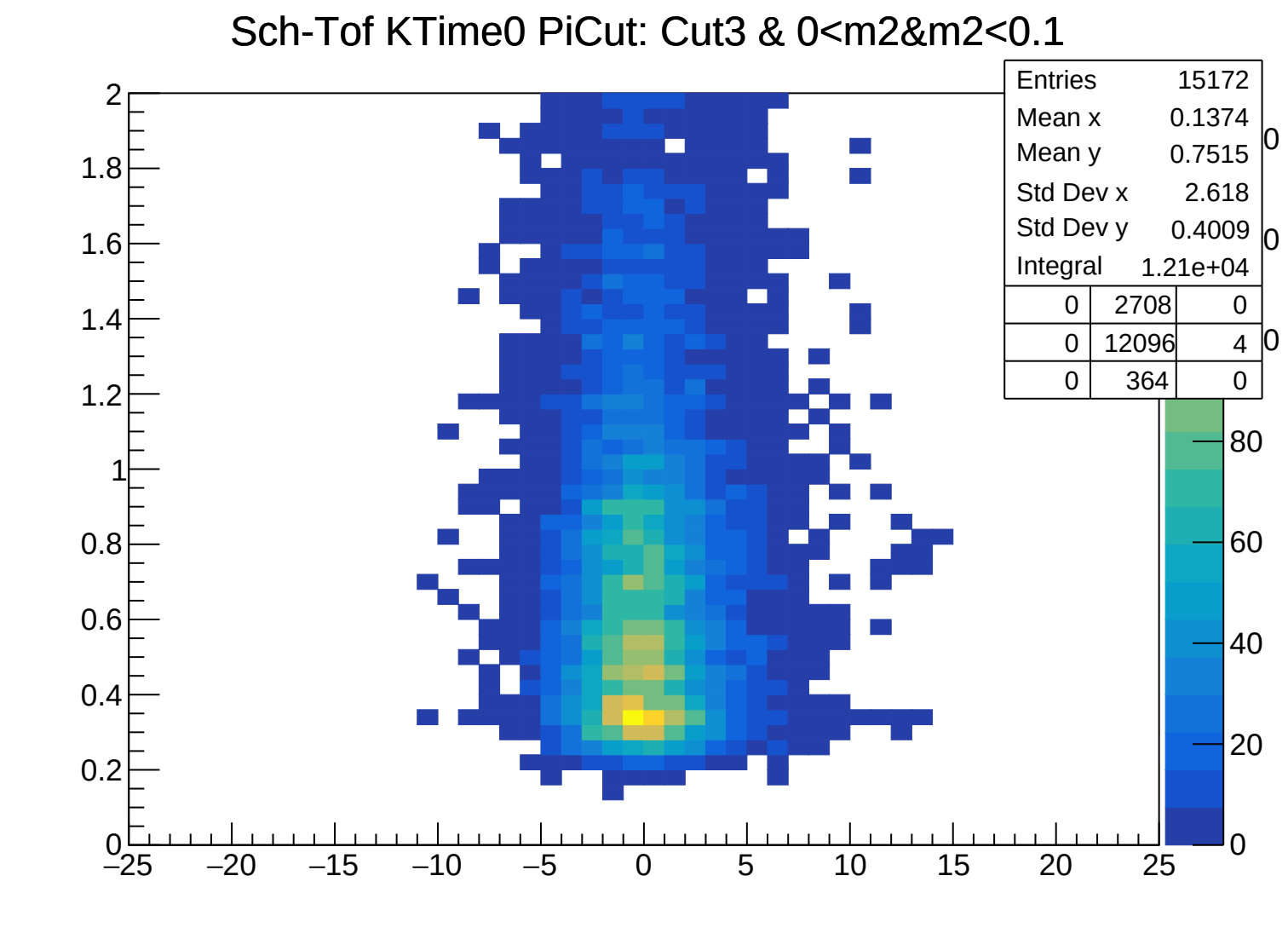

Sch-Tof KTime0 PiCut: Cut3 & 0<m2&m2<0.1
Entries 15172
Mean 0.1525
Std Dev 2.623
Underflow 0
Overflow 4
Integral 1.517e+04
2500
2000
1500
1000
500
0
−25
−20
−15
−10
−5
0
5
10
15
20
25

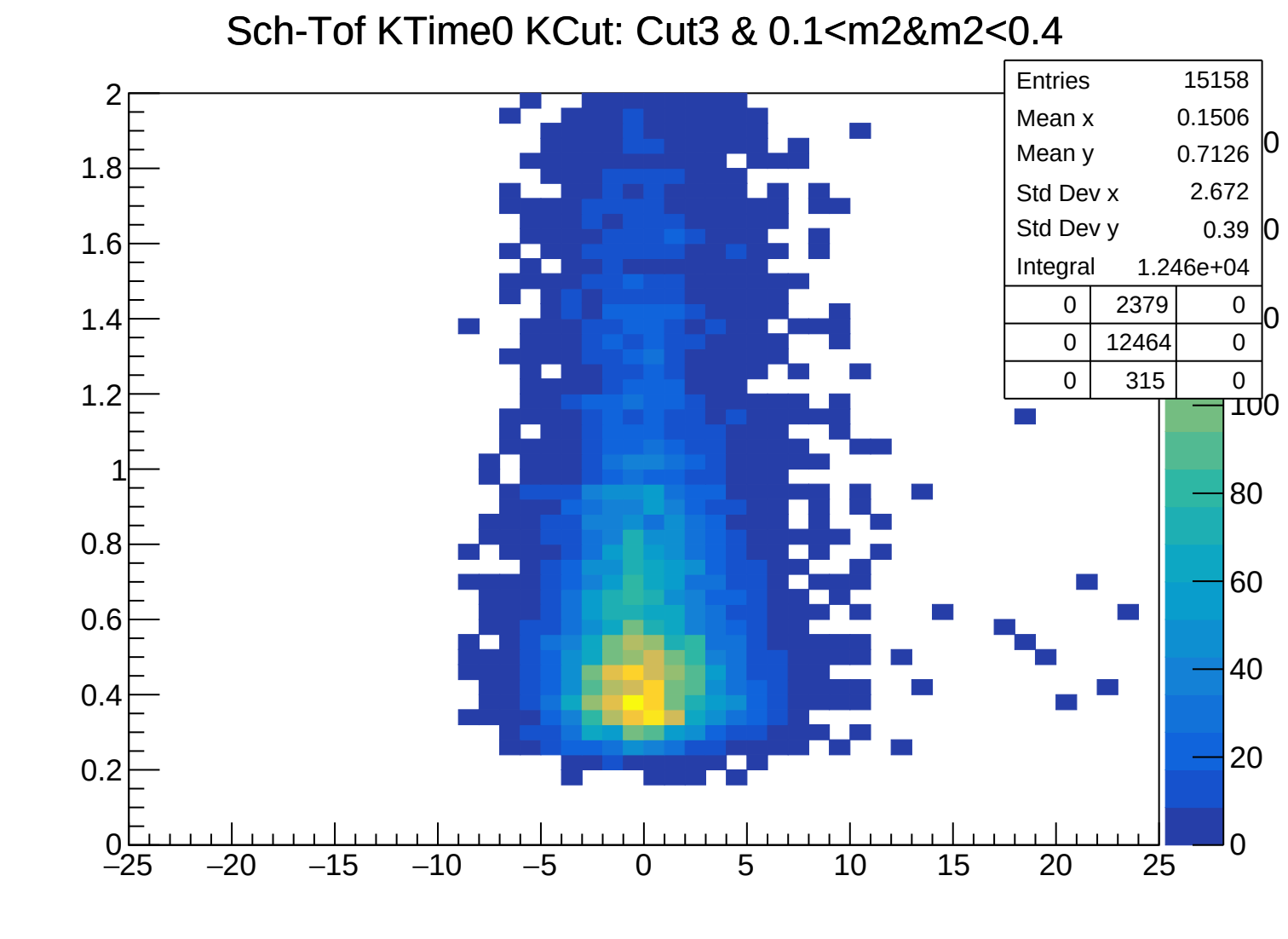

Sch-Tof KTime0 KCut: Cut3 & 0.1<m2&m2<0.4
Entries 15158
Mean 0.1713
Std Dev 2.669
Underflow 0
Overflow 0
Integral 1.516e+04
2500
2000
1500
1000
500
0
−25
−20
−15
−10
−5
0
5
10
15
20
25

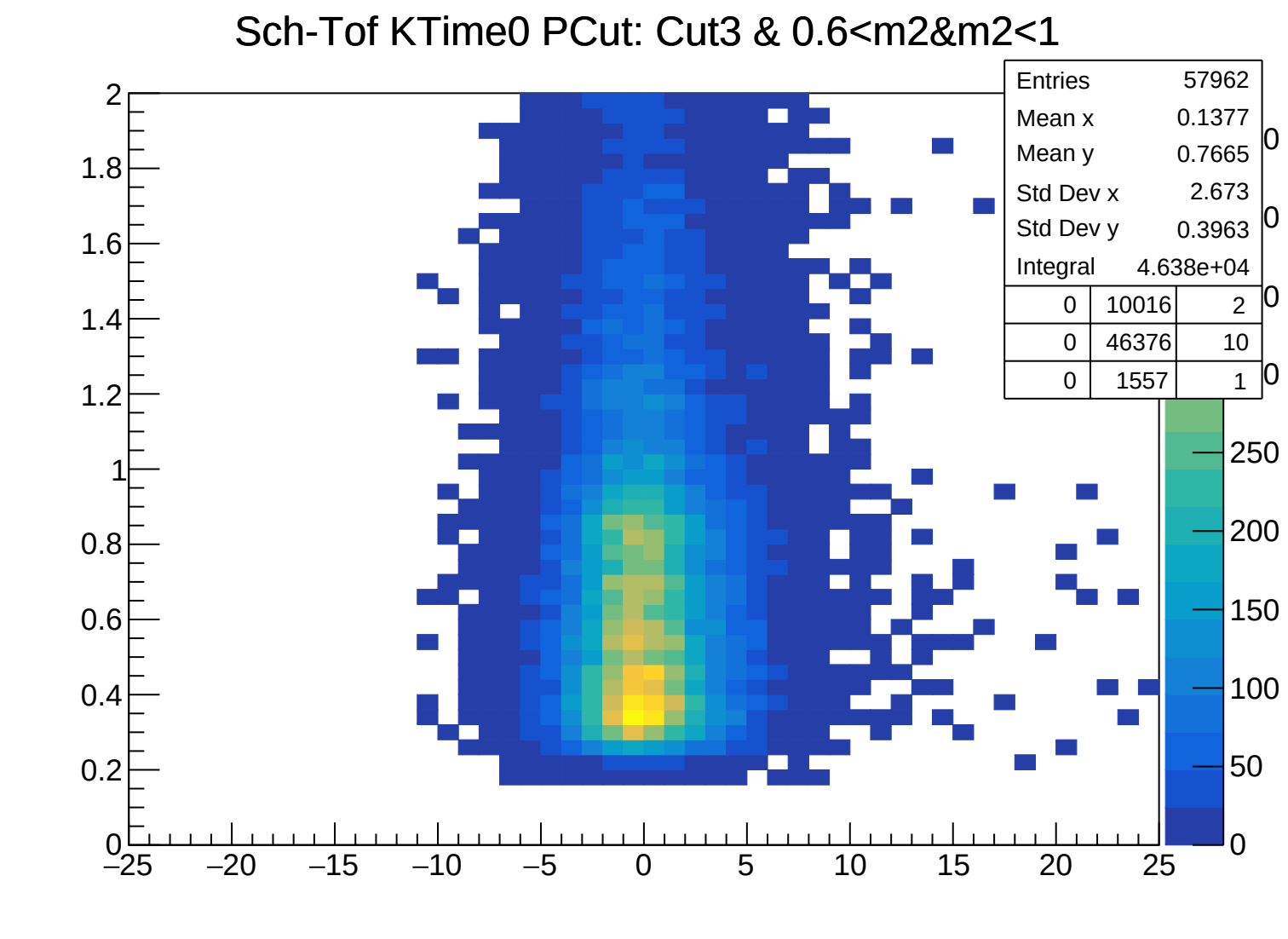

Sch-Tof KTime0 PCut: Cut3 & 0.6<m2&m2<1
Entries 57962
Mean 0.1331
Std Dev 2.664
Underflow 0
Overflow 13
Integral 5.795e+04
10000
8000
6000
4000
2000
0
–25
–20
–15
–10
–5
0
5
10
15
20
25

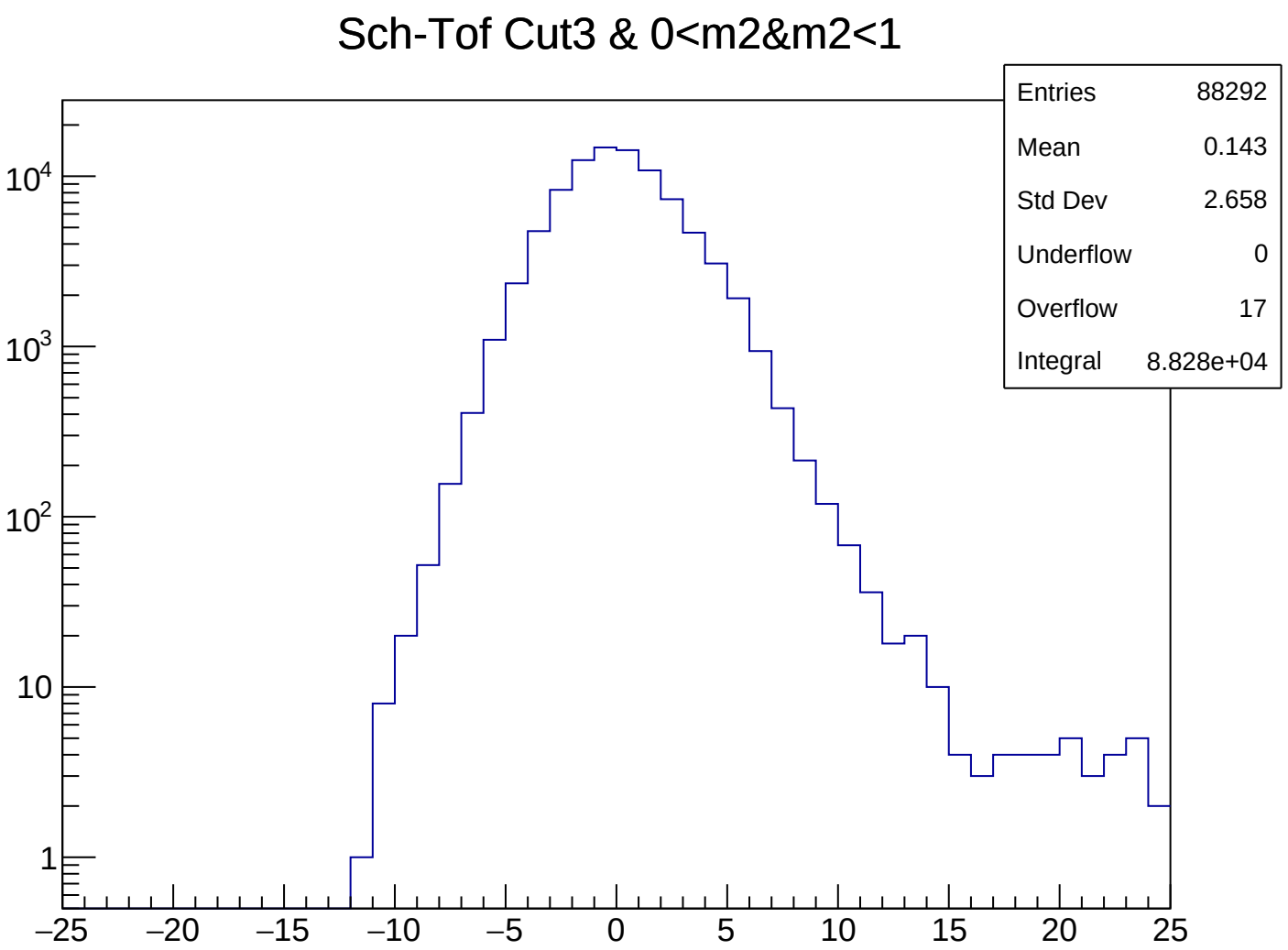

Sch-Tof vs m2 Cut3: Sch&TOF-> nhits=1 & Maxdepth =1 & ntKurama=1
Entries 136554
Mean x −403.5
Mean y 0.5788
Std Dev x 2.665
Std Dev y 0.3777
Integral 1.023e+05
0 20206 2
0 102345 11
0 13990 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−420 −415 −410 −405 −400 −395 −390 −385 −380 −375 −370
400
200
0

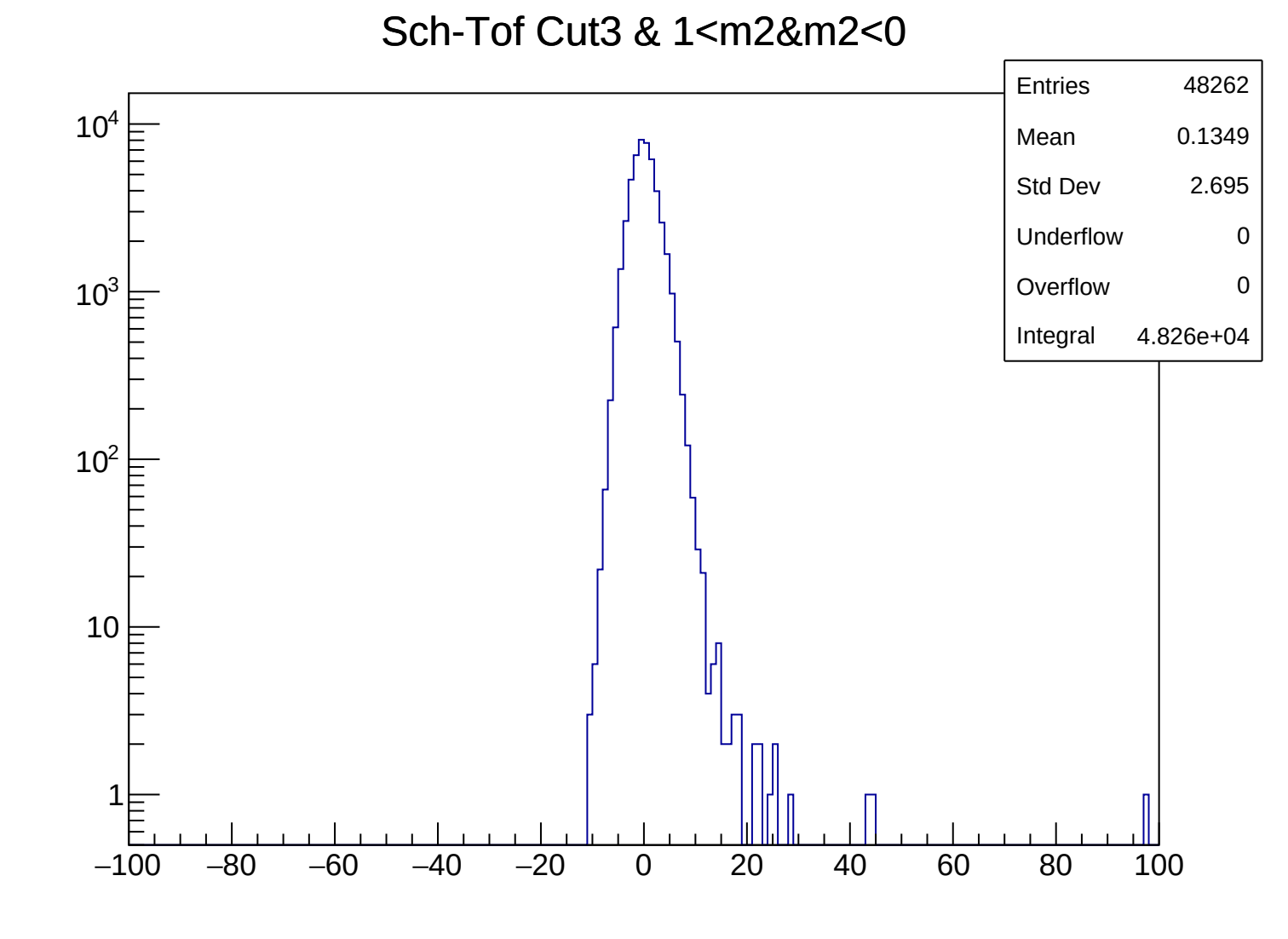

Sch-Tof vs pKurama Cut3: Sch&TOF-> nhits=1 & Maxdepth =1 & ntKurama=1
Entries 136554
Mean x −403.5
Mean y 0.7679
Std Dev x 2.665
Std Dev y 0.4027
Integral 1.084e+05
0 24679 2
0 108368 11
0 3494 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−420
−415
−410
−405
−400
−395
−390
−385
−380
−375
−370
600
400
200
0

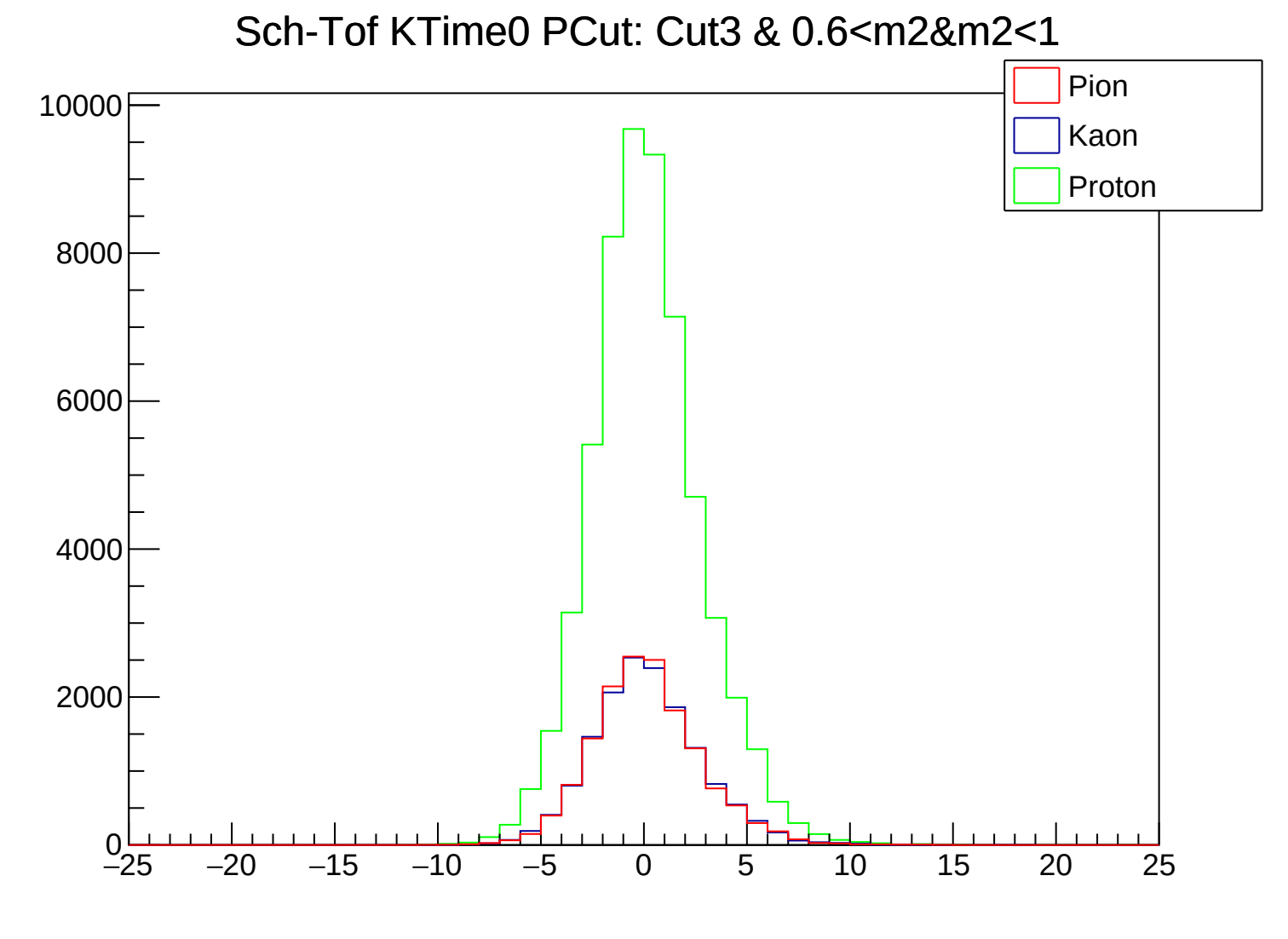

Sch-Tof KTime0 PiCut: Cut3 & 0<m2&m2<0.1
Entries 15172
Mean x 0.1374
Mean y 0.7515
Std Dev x 2.618
Std Dev y 0.4009
Integral 1.21e+04
0 2708 0
0 12096 4
0 364 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–25
–20
–15
–10
–5
0
5
10
15
20
25
80
60
40
20
0


Sch-Tof KTime0 KCut: Cut3 & 0.1<m2&m2<0.4
Entries 15158
Mean x 0.1506
Mean y 0.7126
Std Dev x 2.672
Std Dev y 0.39
Integral 1.246e+04
0 2379 0
0 12464 0
0 315 0
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–25
–20
–15
–10
–5
0
5
10
15
20
25
100
80
60
40
20
0


Sch-Tof KTime0 PCut: Cut3 & 0.6<m2&m2<1
Entries 57962
Mean x 0.1377
Mean y 0.7665
Std Dev x 2.673
Std Dev y 0.3963
Integral 4.638e+04
0 10016 2
0 46376 10
0 1557 1
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–25
–20
–15
–10
–5
0
5
10
15
20
25
250
200
150
100
50
0


Sch-Tof Cut3 & 0<m2&m2<1
Entries 88292
Mean 0.143
Std Dev 2.658
Underflow 0
Overflow 17
Integral 8.828e+04
10^4
10^3
10^2
10
1
–25
–20
–15
–10
–5
0
5
10
15
20
25


Sch-Tof Cut3 & 1<m2&m2<0
Entries 48262
Mean 0.1349
Std Dev 2.695
Underflow 0
Overflow 0
Integral 4.826e+04
10^4
10^3
10^2
10
1
–100
–80
–60
–40
–20
0
20
40
60
80
100


Sch-Tof KTime0 PCut: Cut3 & 0.6<m2&m2<1
Pion
Kaon
Proton
10000
8000
6000
4000
2000
0
–25
–20
–15
–10
–5
0
5
10
15
20
25