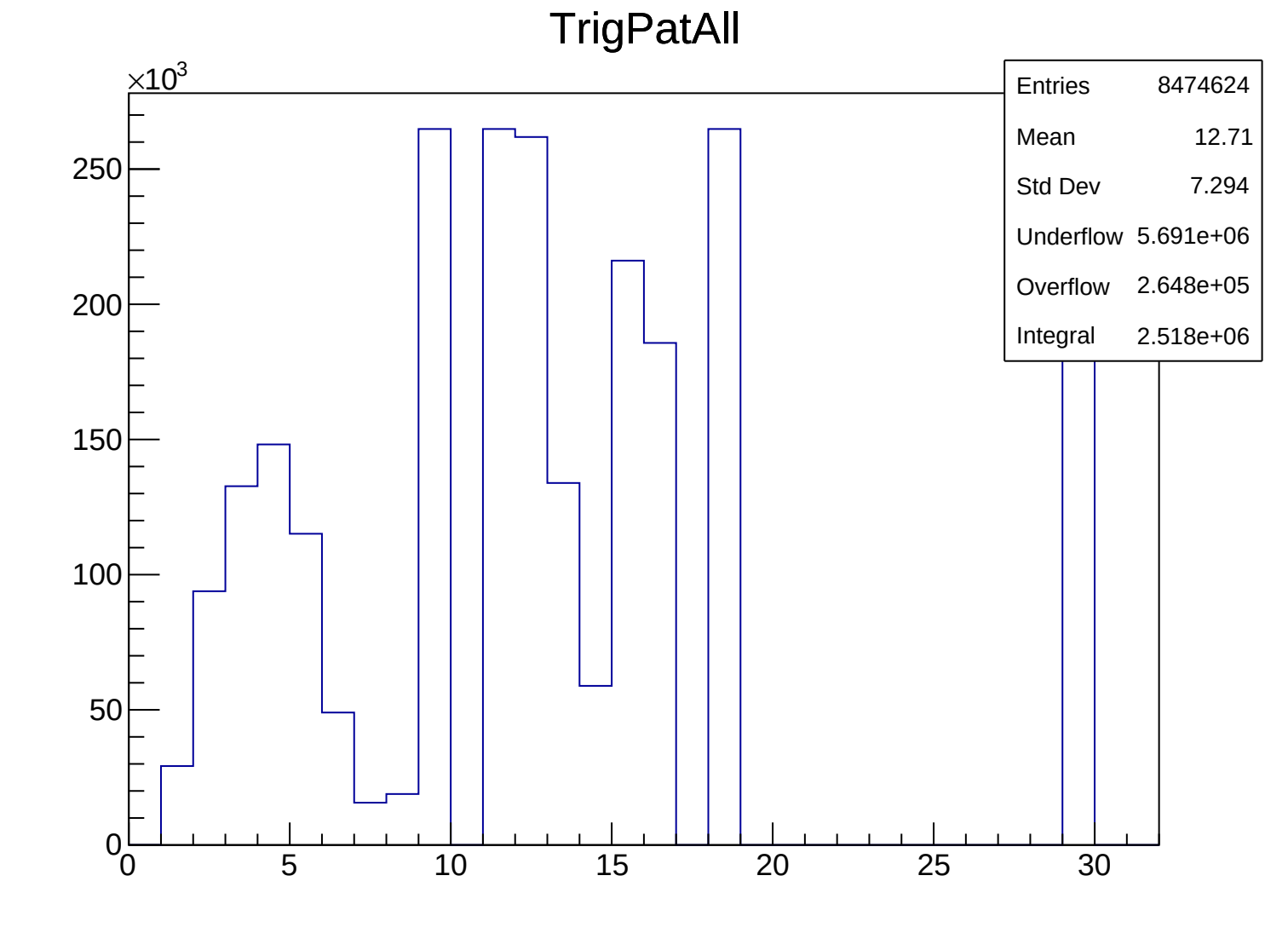
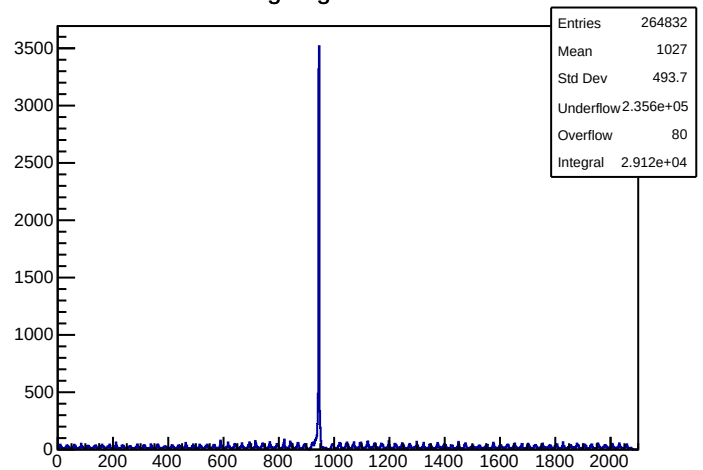
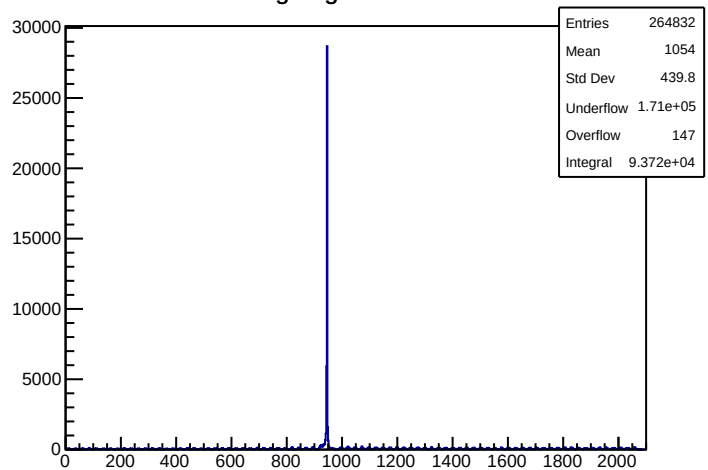

TrigPatAll
×10^3
250
200
150
100
50
0
0
5
10
15
20
25
30
Entries 8474624
Mean 12.71
Std Dev 7.294
Underflow 5.691e+06
Overflow 2.648e+05
Integral 2.518e+06


TrigFlag Bh21K
Entries 264832
Mean 1027
Std Dev 493.7
Underflow 2.356e+05
Overflow 80
Integral 2.912e+04
0 500 1000 1500 2000 2500 3000 3500
0 200 400 600 800 1000 1200 1400 1600 1800 2000


TrigFlag Bh22K
Entries 264832
Mean 1054
Std Dev 439.8
Underflow 1.71e+05
Overflow 147
Integral 9.372e+04
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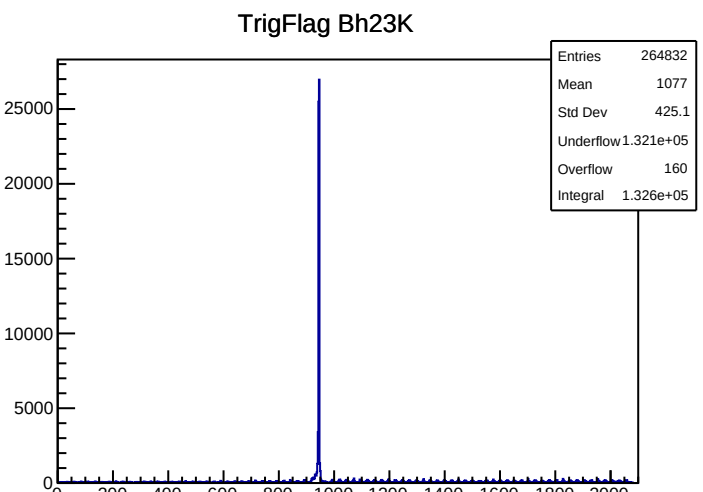
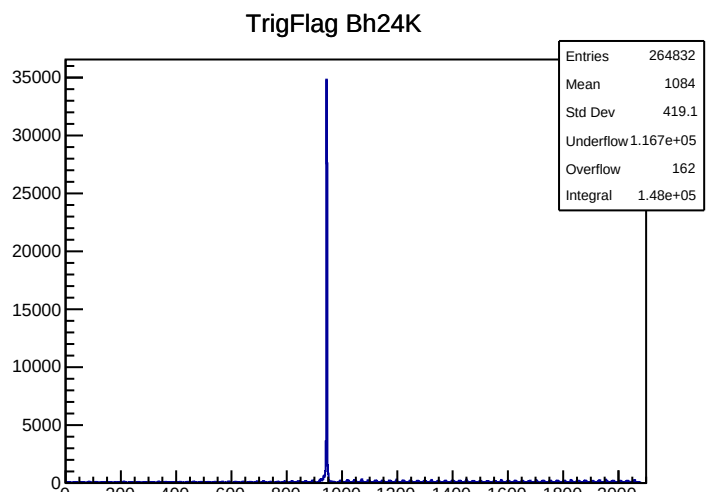
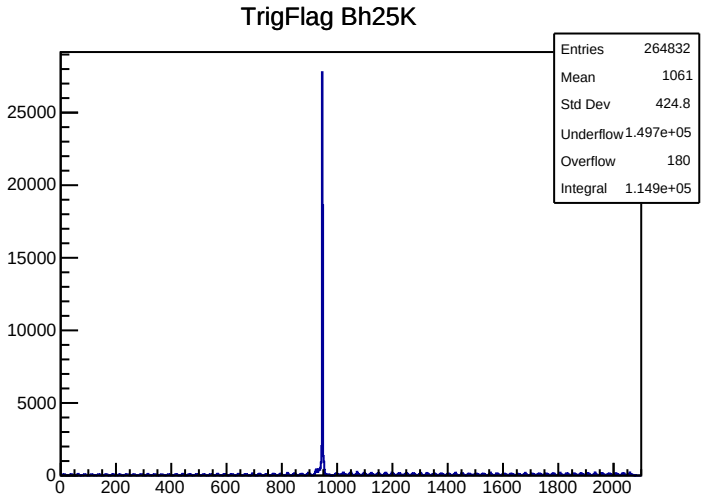
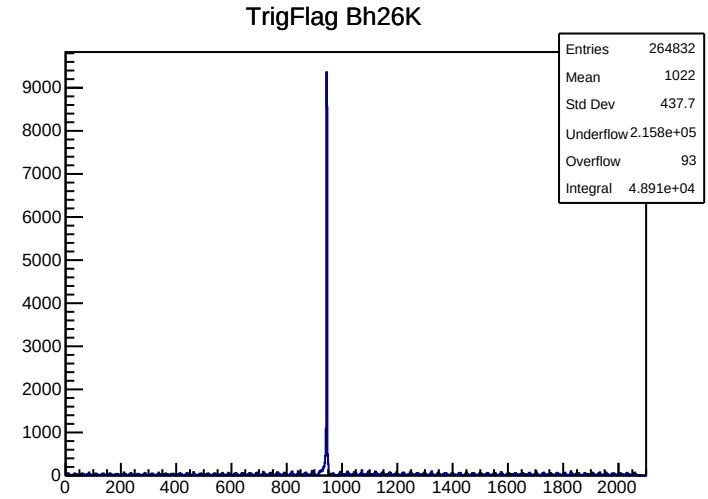
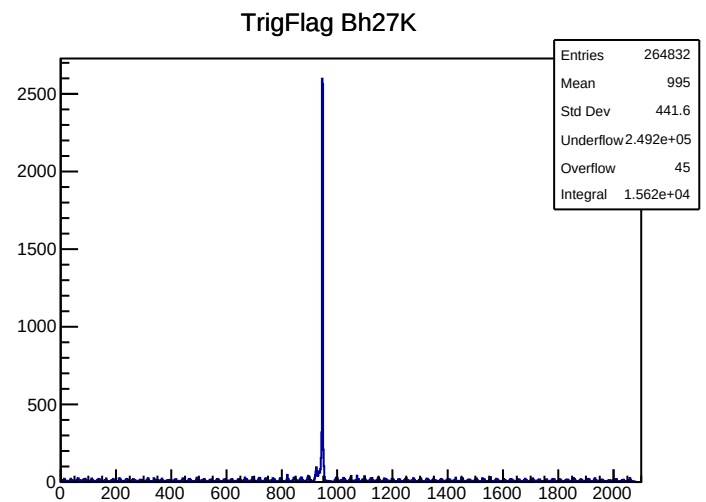
0 200 400 600 800 1000 1200 1400 1600 1800 2000

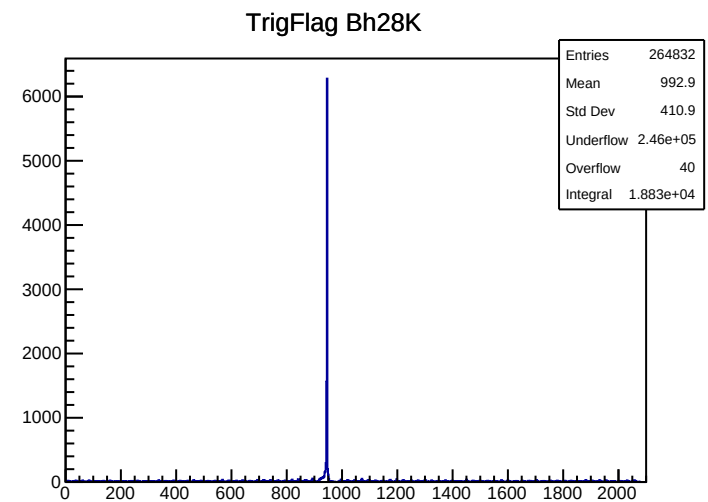

TrigFlag Bh23K
Entries 264832
Mean 1077
Std Dev 425.1
Underflow 1.321e+05
Overflow 160
Integral 1.326e+05
0 5000 10000 15000 20000 25000
0 200 400 600 800 1000 1200 1400 1600 1800 2000

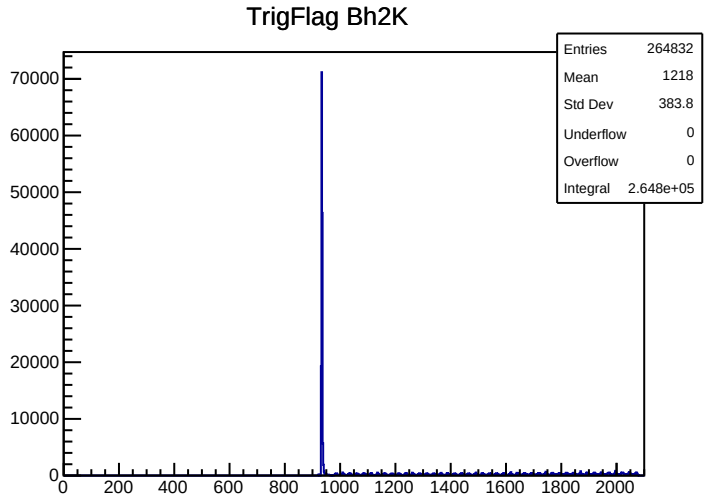

TrigFlag Bh24K
Entries 264832
Mean 1084
Std Dev 419.1
Underflow 1.167e+05
Overflow 162
Integral 1.48e+05
0 5000 10000 15000 20000 25000 30000 35000
0 200 400 600 800 1000 1200 1400 1600 1800 2000

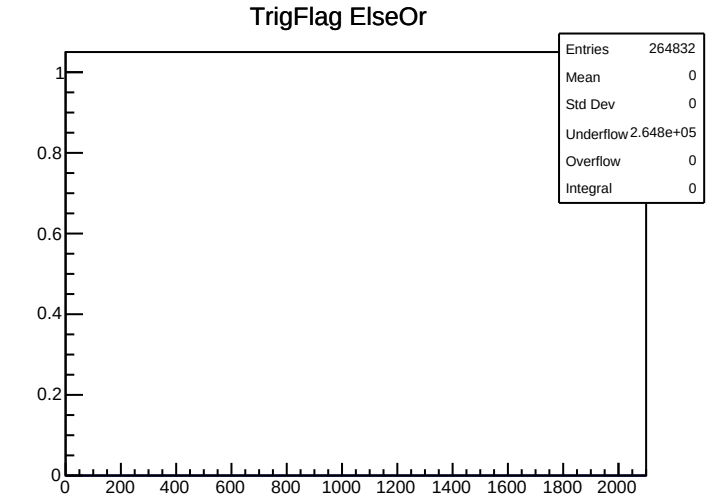

TrigFlag Bh25K
Entries 264832
Mean 1061
Std Dev 424.8
Underflow 1.497e+05
Overflow 180
Integral 1.149e+05
25000
20000
15000
10000
5000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

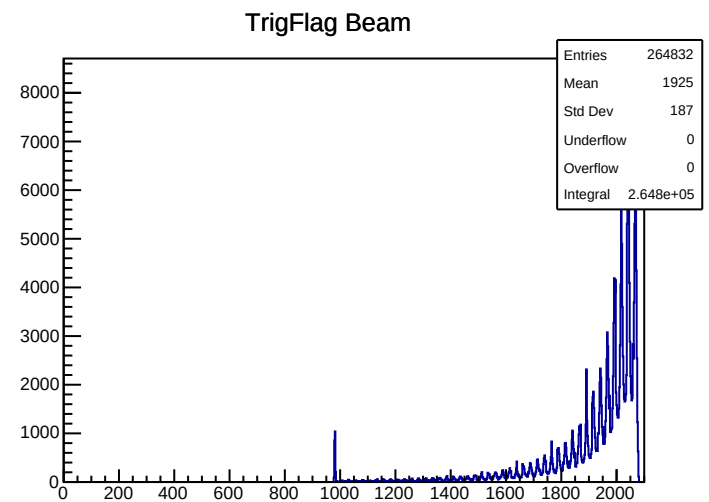

TrigFlag Bh26K
Entries 264832
Mean 1022
Std Dev 437.7
Underflow 2.158e+05
Overflow 93
Integral 4.891e+04
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

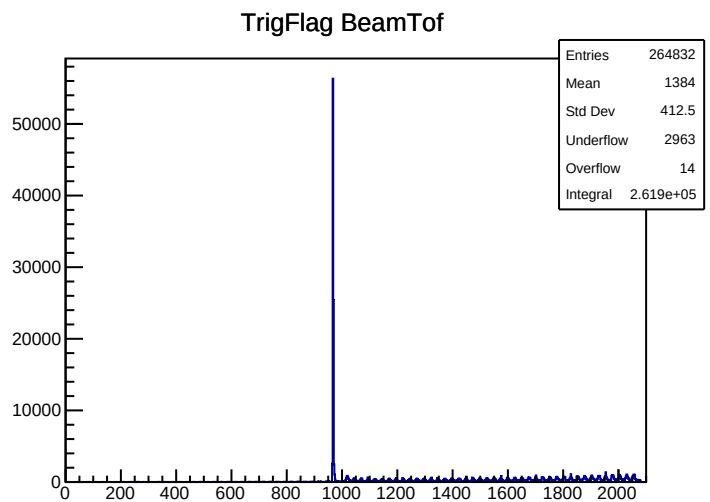

TrigFlag Bh27K
Entries 264832
Mean 995
Std Dev 441.6
Underflow 2.492e+05
Overflow 45
Integral 1.562e+04
2500
2000
1500
1000
500
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

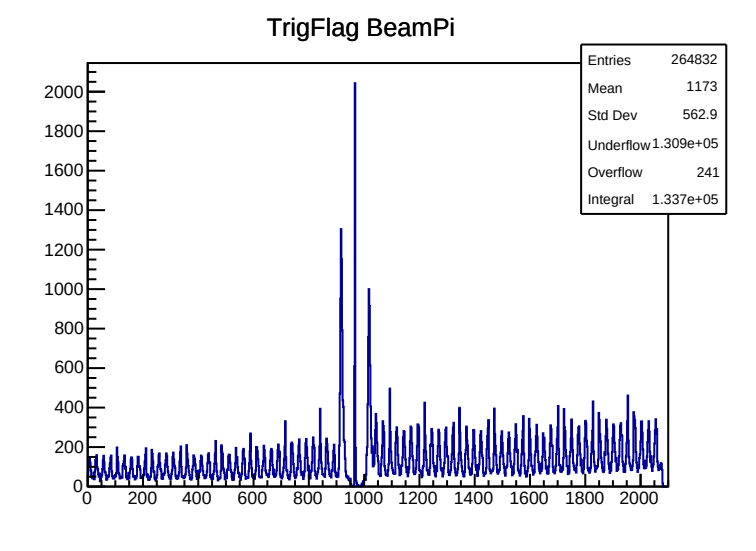

TrigFlag Bh28K
Entries 264832
Mean 992.9
Std Dev 410.9
Underflow 2.46e+05
Overflow 40
Integral 1.883e+04
6000
5000
4000
3000
2000
1000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

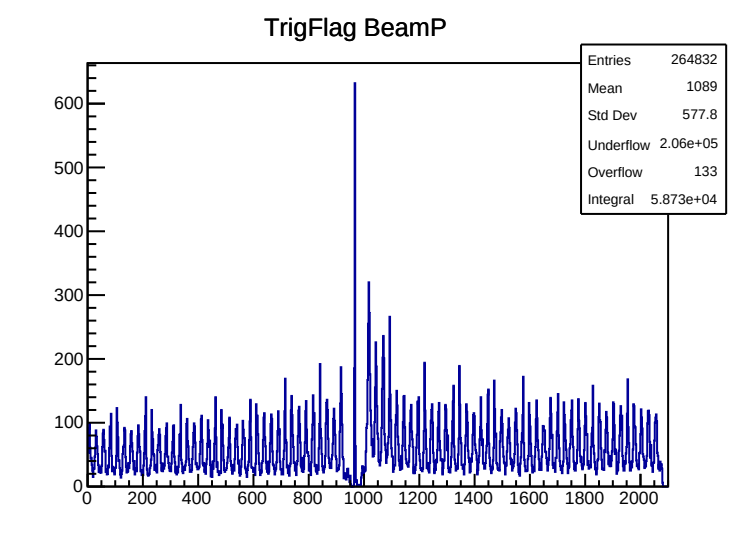

TrigFlag Bh2K
Entries 264832
Mean 1218
Std Dev 383.8
Underflow 0
Overflow 0
Integral 2.648e+05
70000
60000
50000
40000
30000
20000
10000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

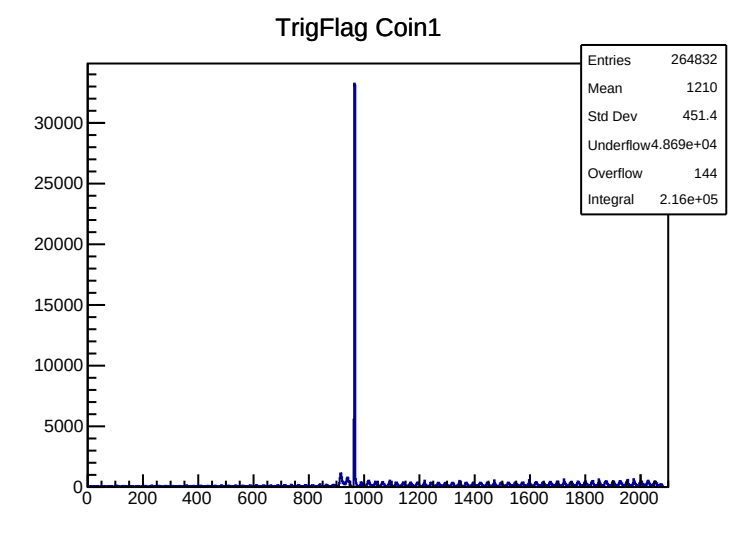

TrigFlag ElseOr
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

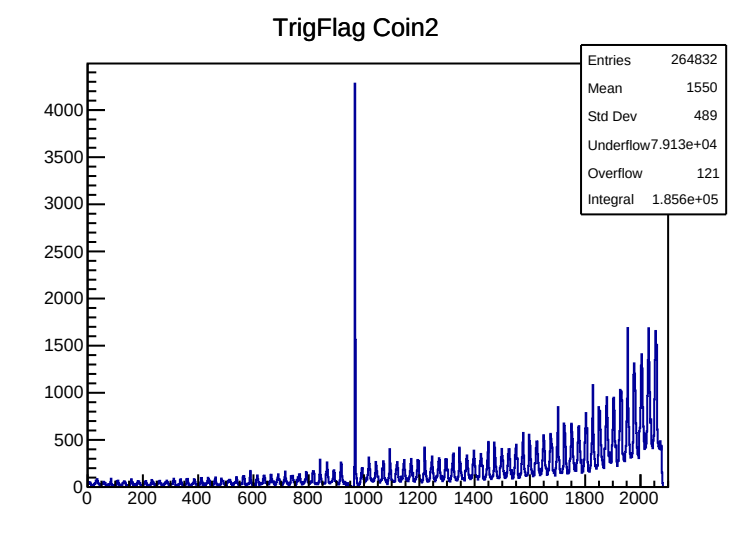

TrigFlag Beam
Entries 264832
Mean 1925
Std Dev 187
Underflow 0
Overflow 0
Integral 2.648e+05
8000
7000
6000
5000
4000
3000
2000
1000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

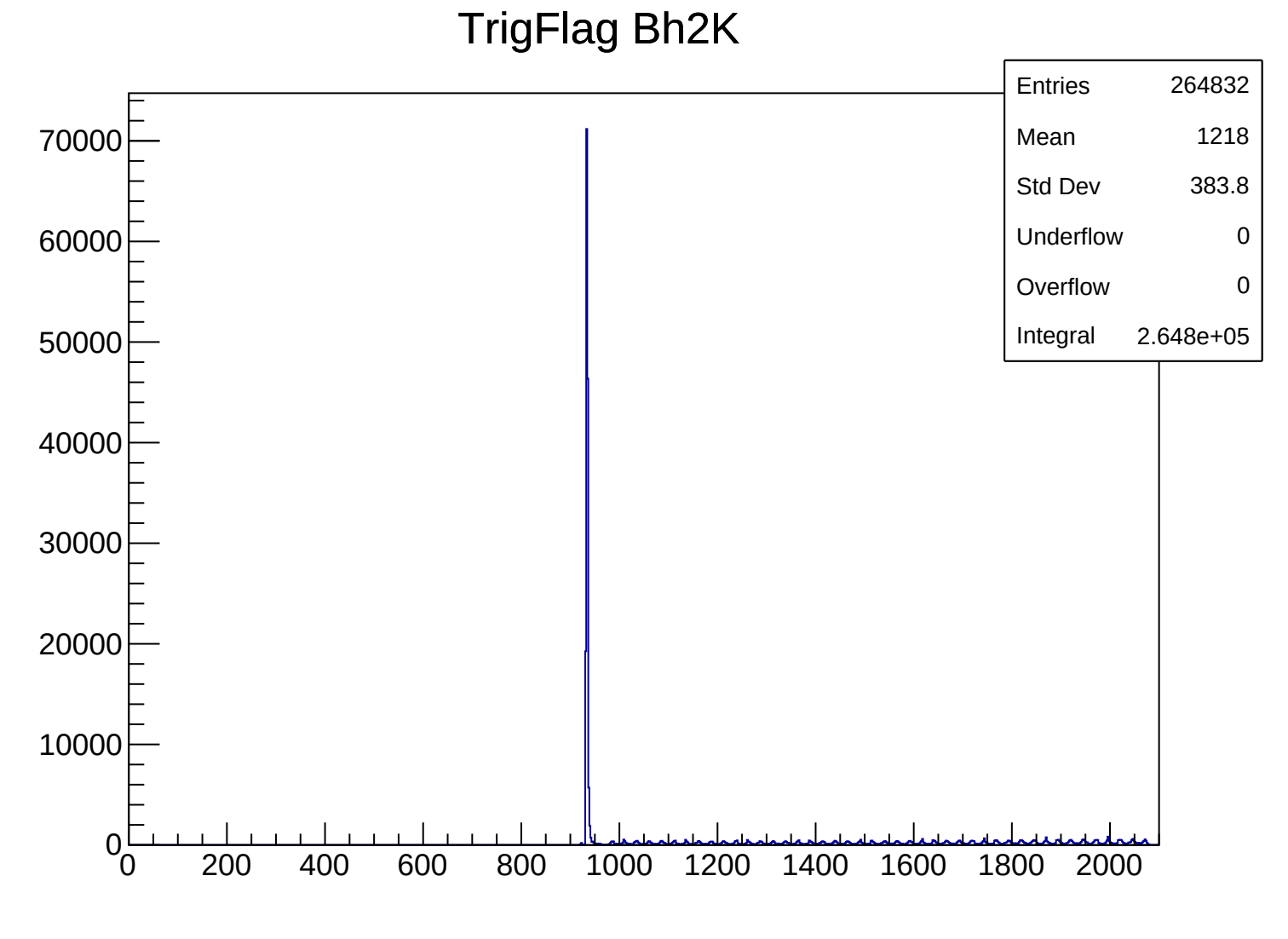

TrigFlag BeamTof
Entries 264832
Mean 1384
Std Dev 412.5
Underflow 2963
Overflow 14
Integral 2.619e+05
50000
40000
30000
20000
10000
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000

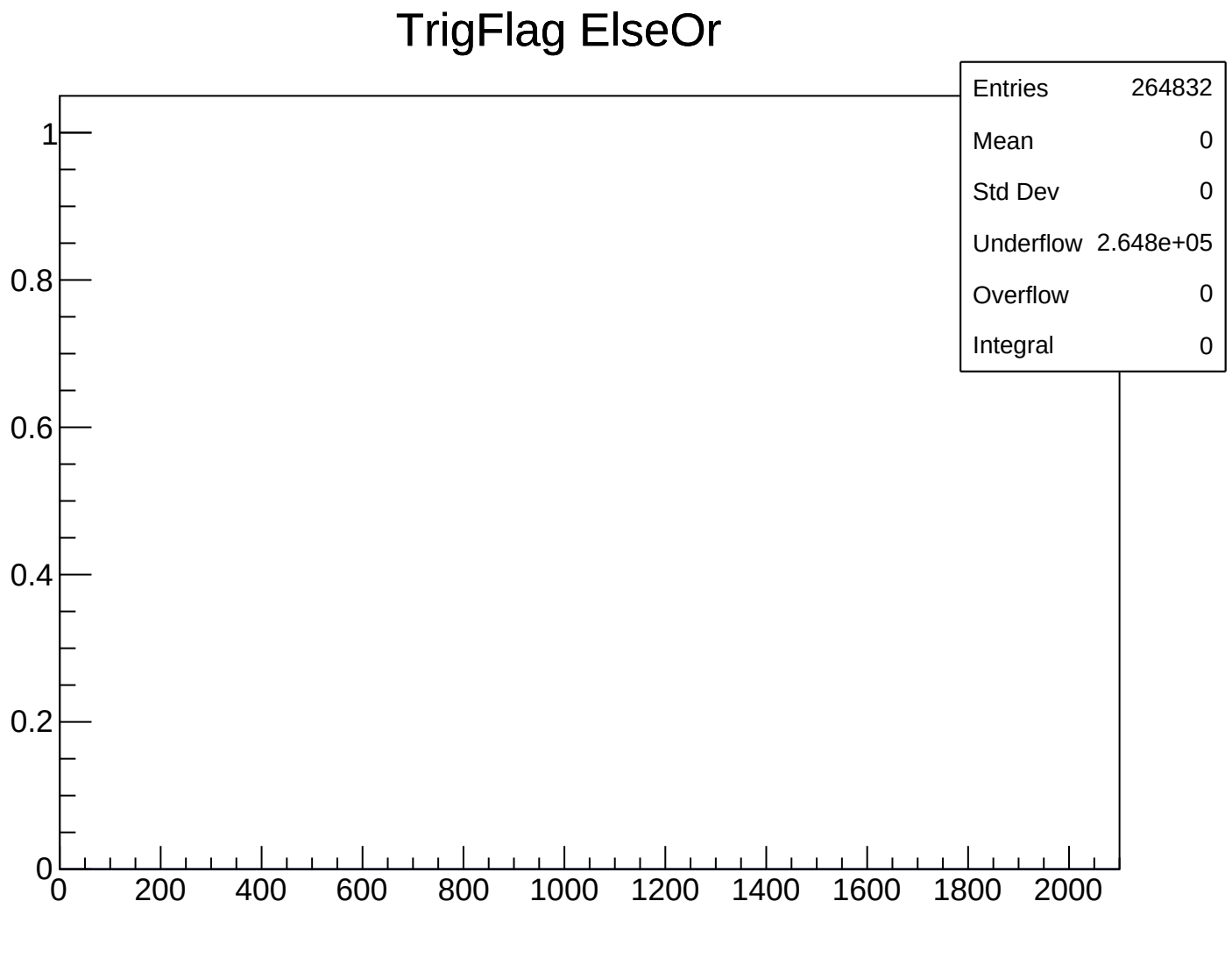

TrigFlag BeamPi
Entries 264832
Mean 1173
Std Dev 562.9
Underflow 1.309e+05
Overflow 241
Integral 1.337e+05

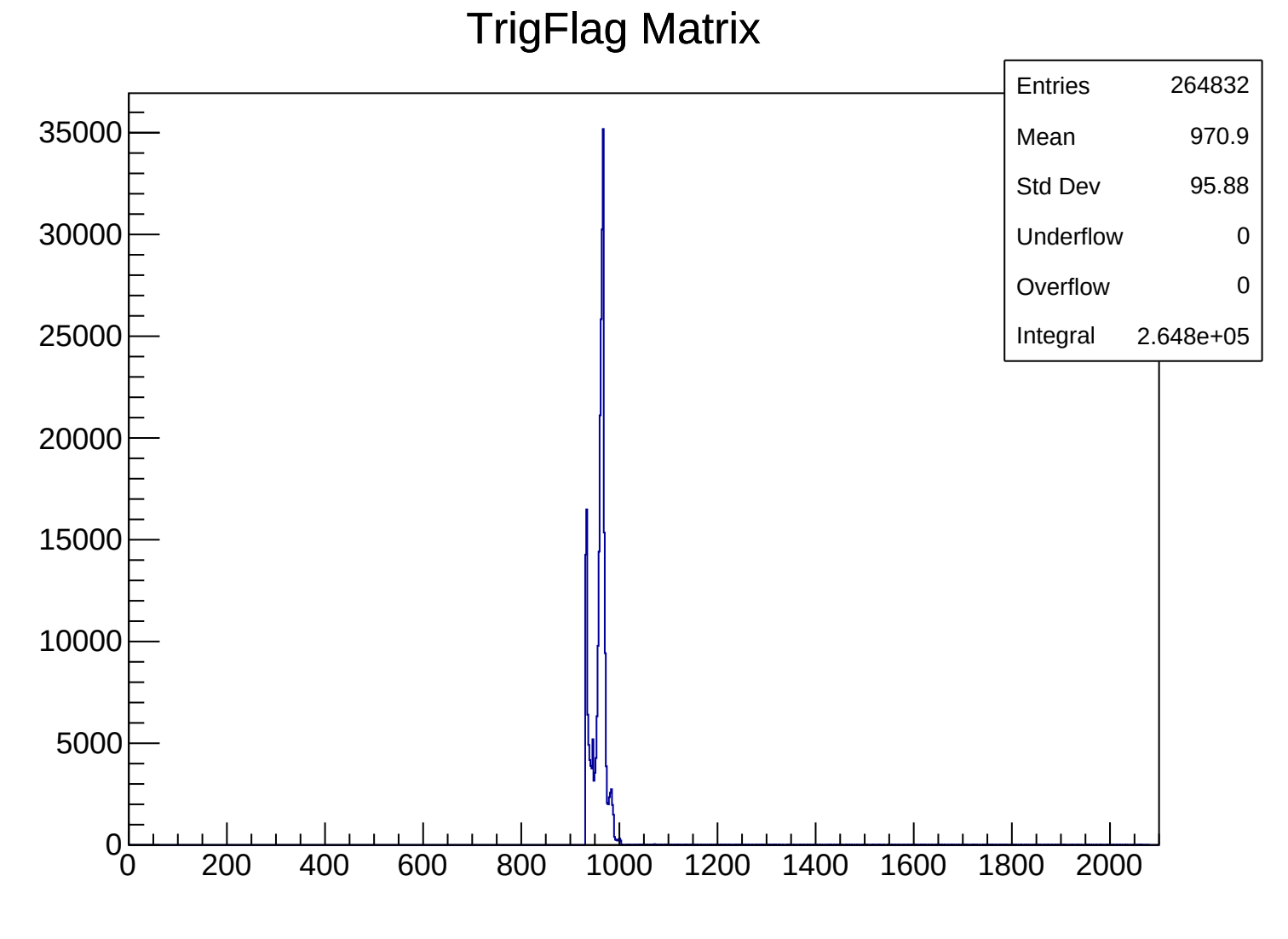

TrigFlag BeamP
Entries 264832
Mean 1089
Std Dev 577.8
Underflow 2.06e+05
Overflow 133
Integral 5.873e+04

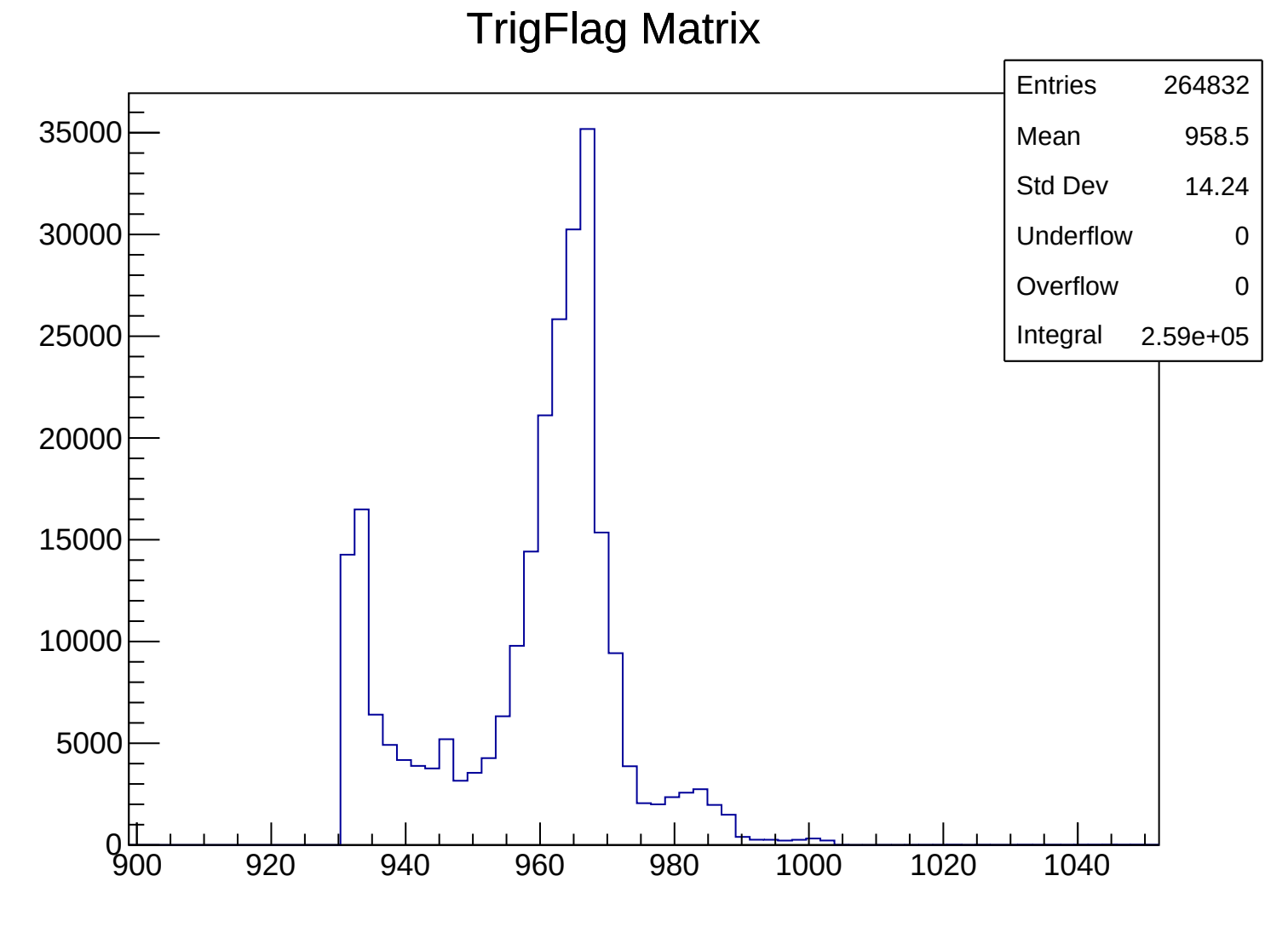

TrigFlag Coin1
Entries 264832
Mean 1210
Std Dev 451.4
Underflow 4.869e+04
Overflow 144
Integral 2.16e+05

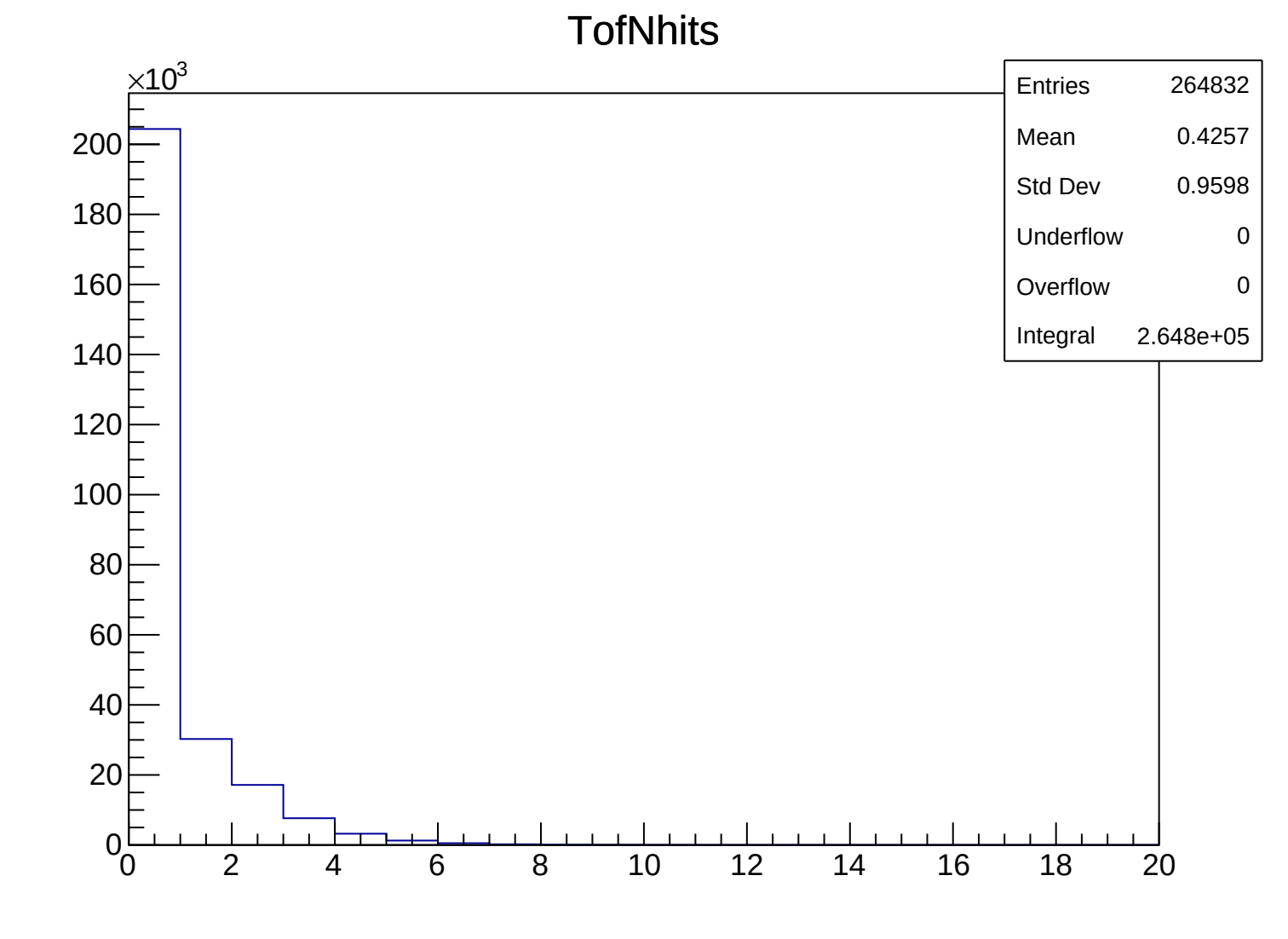

TrigFlag Coin2
Entries 264832
Mean 1550
Std Dev 489
Underflow 7.913e+04
Overflow 121
Integral 1.856e+05

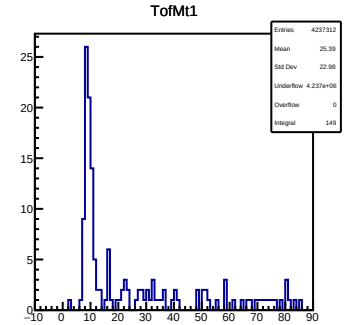

TrigFlag Bh2K
Entries 264832
Mean 1218
Std Dev 383.8
Underflow 0
Overflow 0
Integral 2.648e+05
70000
60000
50000
40000
30000
20000
10000
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

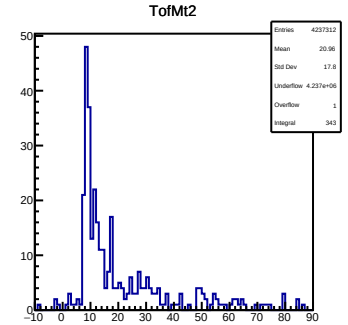

TrigFlag ElseOr
Entries 264832
Mean 0
Std Dev 0
Underflow 2.648e+05
Overflow 0
Integral 0
1
0.8
0.6
0.4
0.2
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

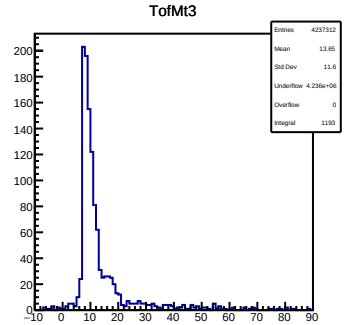

TrigFlag Matrix
Entries 264832
Mean 970.9
Std Dev 95.88
Underflow 0
Overflow 0
Integral 2.648e+05
35000
30000
25000
20000
15000
10000
5000
0
0
200
400
600
800
1000
1200
1400
1600
1800
2000

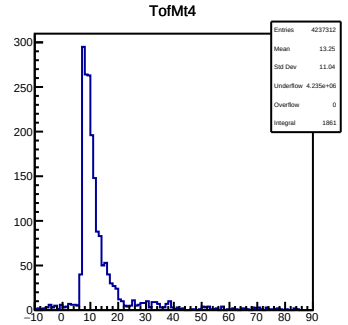

TrigFlag Matrix
Entries 264832
Mean 958.5
Std Dev 14.24
Underflow 0
Overflow 0
Integral 2.59e+05
35000
30000
25000
20000
15000
10000
5000
0
900
920
940
960
980
1000
1020
1040

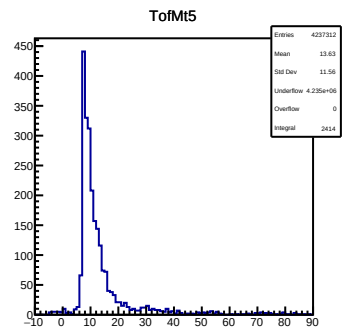

TofNhits
×10^3
200
180
160
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Entries 264832
Mean 0.4257
Std Dev 0.9598
Underflow 0
Overflow 0
Integral 2.648e+05

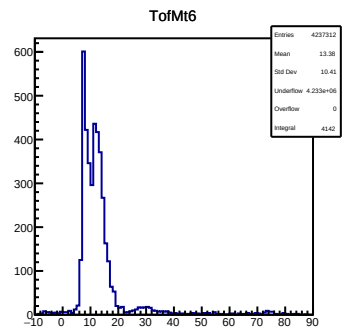

TofMt1
Entries 4237312
Mean 25.39
Std Dev 22.98
Underflow 4.237e+06
Overflow 0
Integral 149

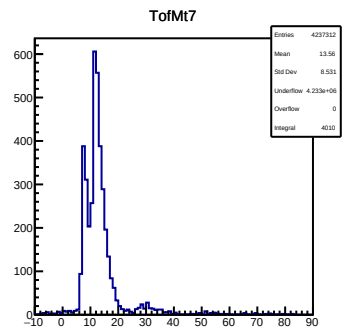

TofMt2
Entries 4237312
Mean 20.96
Std Dev 17.8
Underflow 4.237e+06
Overflow 1
Integral 343

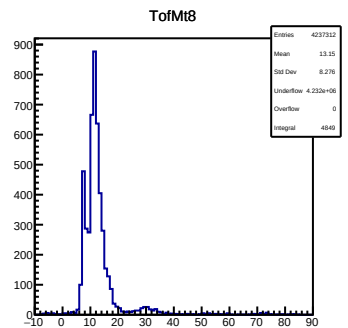

TofMt3
Entries 4237312
Mean 13.65
Std Dev 11.6
Underflow 4.236e+06
Overflow 0
Integral 1193

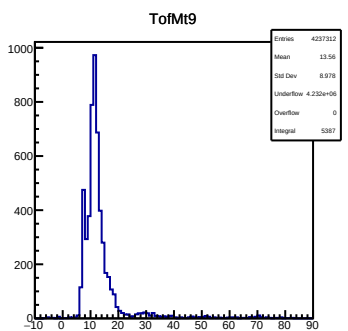

TofMt4
Entries 4237312
Mean 13.25
Std Dev 11.04
Underflow 4.235e+06
Overflow 0
Integral 1861

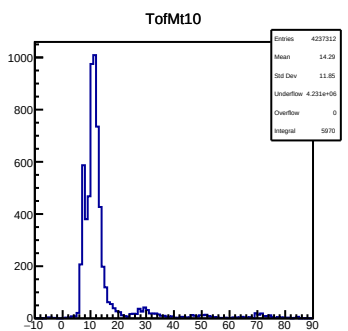

TofMt5
Entries 4237312
Mean 13.63
Std Dev 11.56
Underflow 4.235e+06
Overflow 0
Integral 2414

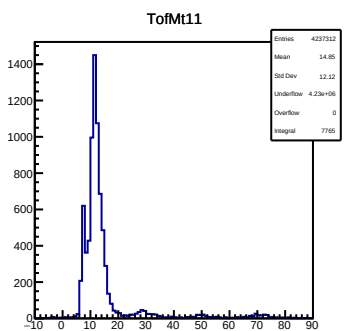

TofMt6
Entries 4237312
Mean 13.38
Std Dev 10.41
Underflow 4.233e+06
Overflow 0
Integral 4142

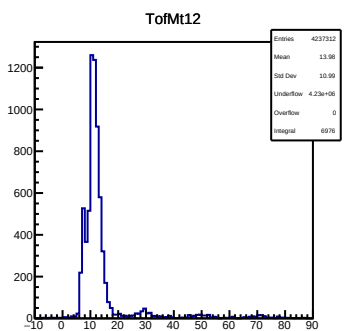

TofMt7
Entries 4237312
Mean 13.56
Std Dev 8.531
Underflow 4.233e+06
Overflow 0
Integral 4010

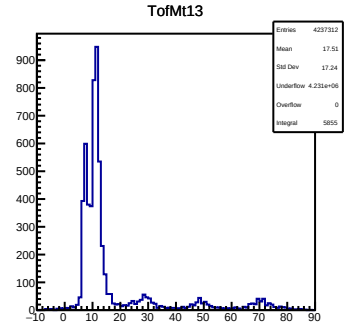

TofMt8
Entries 4237312
Mean 13.15
Std Dev 8.276
Underflow 4.232e+06
Overflow 0
Integral 4840

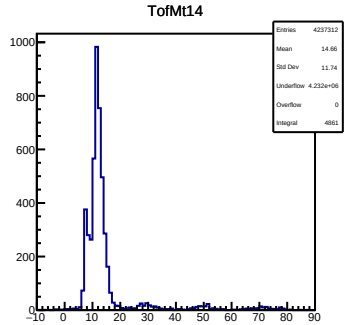

TofMt9
Entries 4237312
Mean 13.56
Std Dev 8.978
Underflow 4.232e+06
Overflow 0
Integral 5387

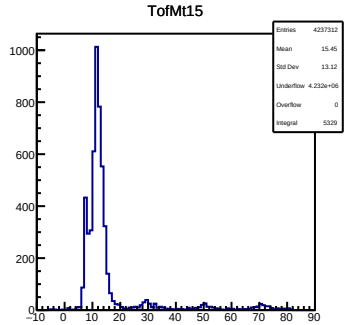

TofMt10
Entries 4237312
Mean 14.29
Std Dev 11.85
Underflow 4.231e+06
Overflow 0
Integral 5970

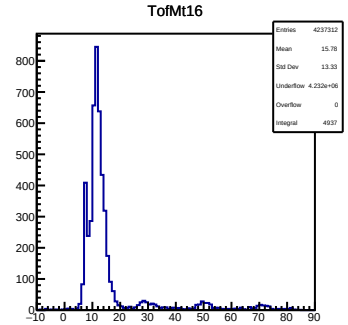

TofMt11
Entries 4237312
Mean 14.85
Std Dev 12.12
Underflow 4.23e+06
Overflow 0
Integral 7765

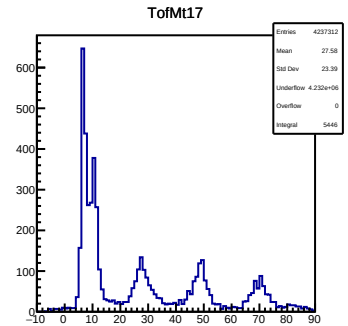

TofMt12
Entries 4237312
Mean 13.98
Std Dev 10.99
Underflow 4.23e+06
Overflow 0
Integral 6976

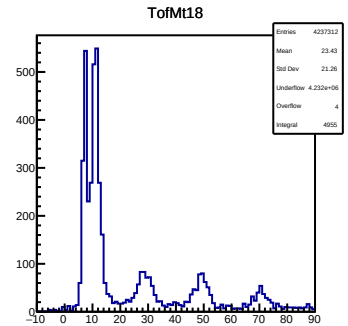

TofMt13
Entries 4237312
Mean 17.51
Std Dev 17.24
Underflow 4.231e+06
Overflow 0
Integral 5855

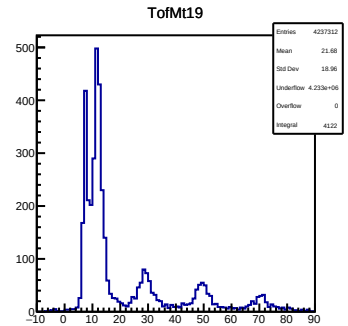

TofMt14
Entries 4237312
Mean 14.66
Std Dev 11.74
Underflow 4.232e+06
Overflow 0
Integral 4861

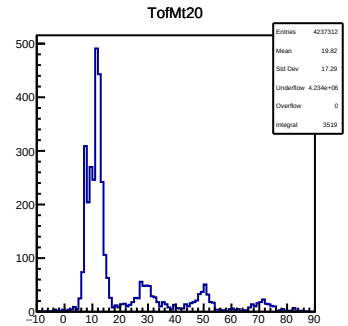

TofMt15
Entries 4237312
Mean 15.45
Std Dev 13.12
Underflow 4.232e+06
Overflow 0
Integral 5329

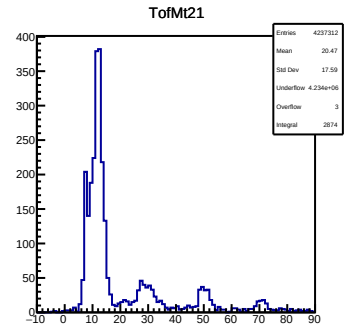

TofMt16
Entries 4237312
Mean 15.78
Std Dev 13.33
Underflow 4.232e+06
Overflow 0
Integral 4937

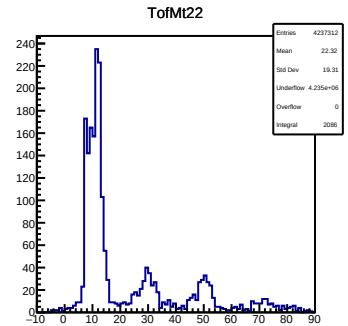

TofMt17
Entries 4237312
Mean 27.58
Std Dev 23.39
Underflow 4.232e+06
Overflow 0
Integral 5446

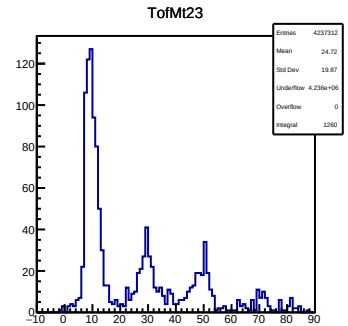

TofMt18
Entries 4237312
Mean 23.43
Std Dev 21.26
Underflow 4.232e+06
Overflow 4
Integral 4955

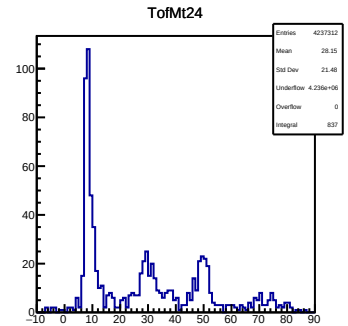

TofMt19
Entries 4237312
Mean 21.68
Std Dev 18.96
Underflow 4.233e+06
Overflow 0
Integral 4122

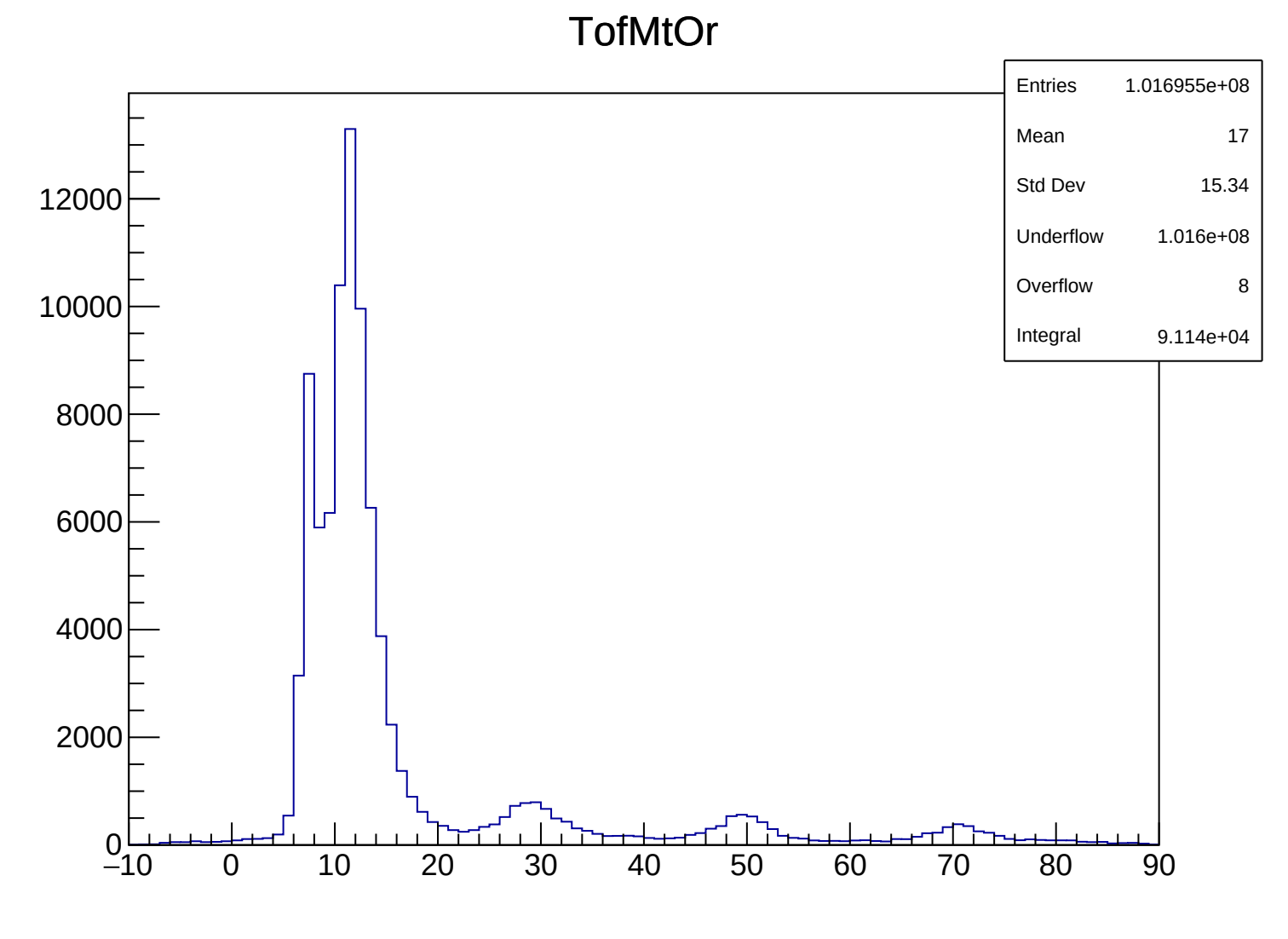

TofMt20
Entries 4237312
Mean 19.82
Std Dev 17.29
Underflow 4.234e+06
Overflow 0
Integral 3519

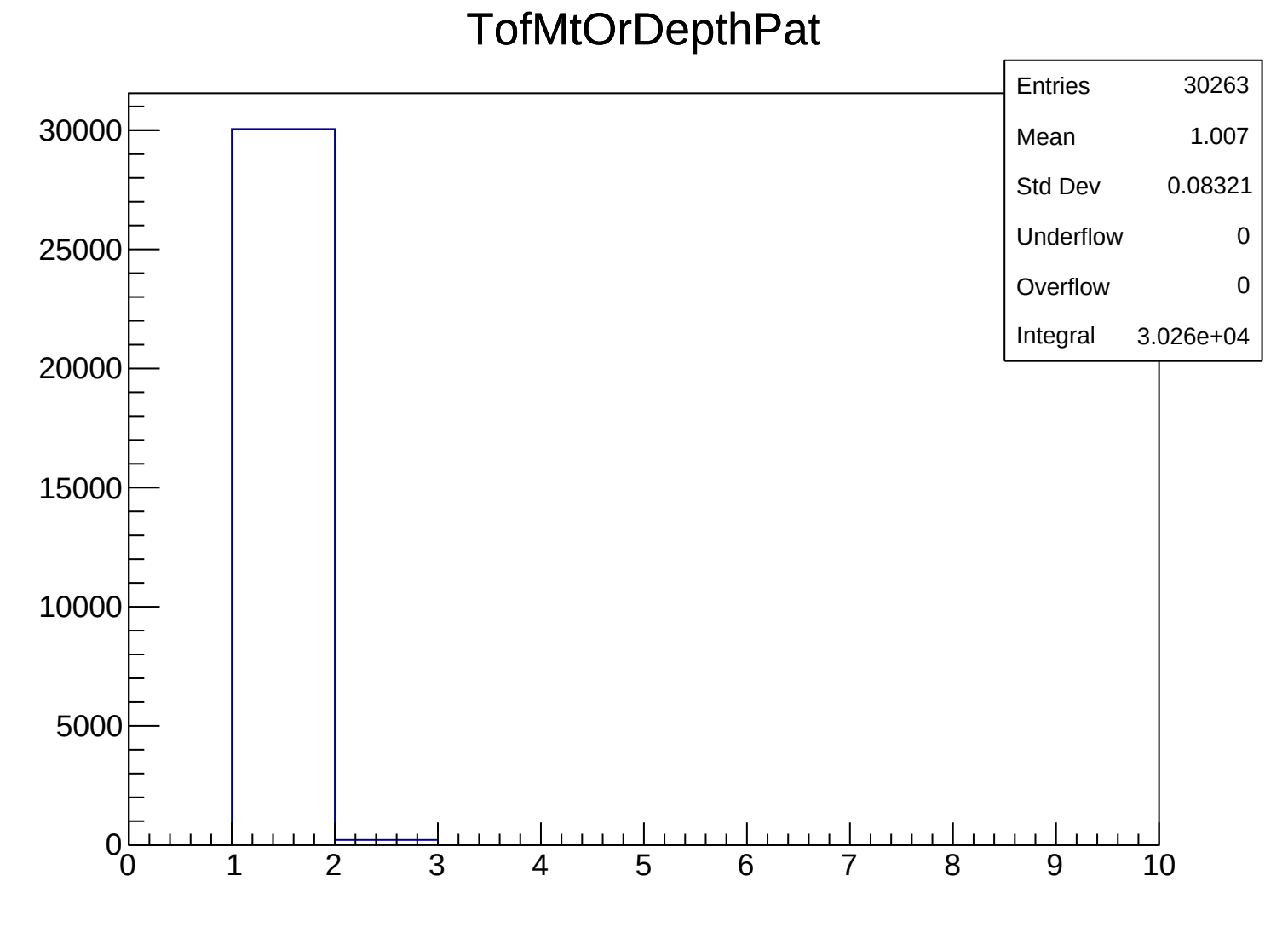

TofMt21
Entries 4237312
Mean 20.47
Std Dev 17.59
Underflow 4.234e+06
Overflow 3
Integral 2874

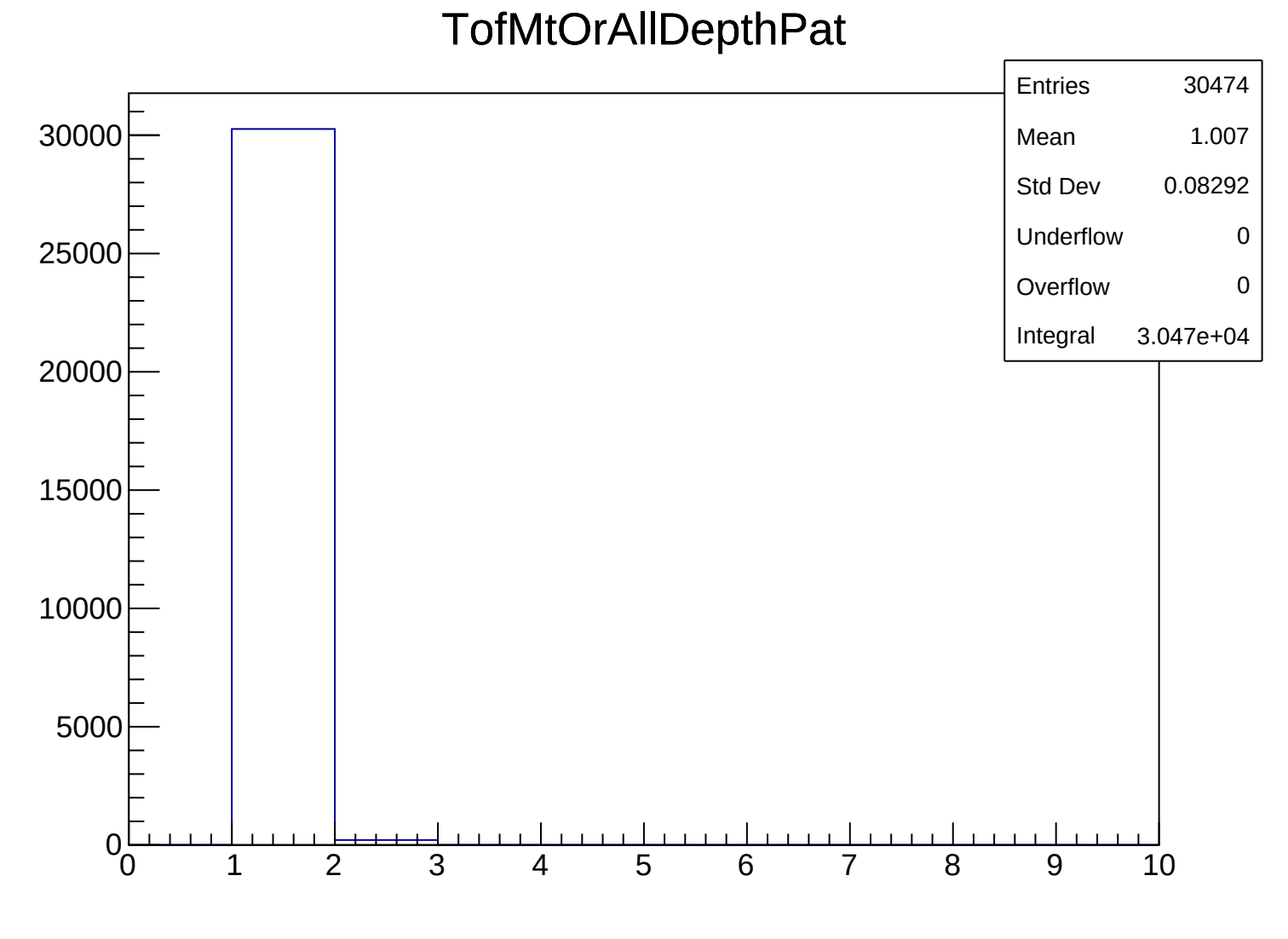

TofMt22
Entries 4237312
Mean 22.32
Std Dev 19.31
Underflow 4.235e+06
Overflow 0
Integral 2086

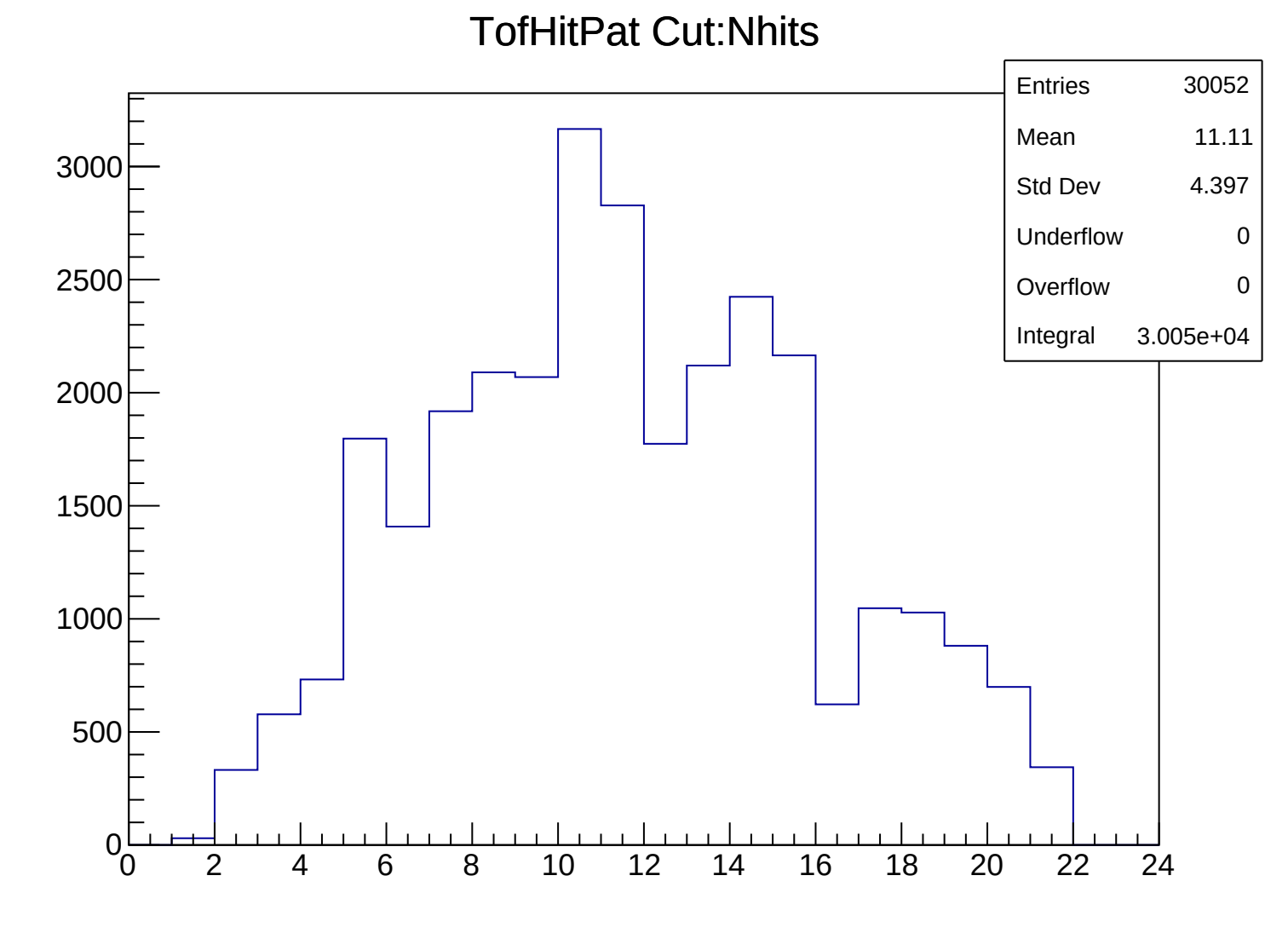

TofMt23
Entries 4237312
Mean 24.72
Std Dev 19.87
Underflow 4.236e+06
Overflow 0
Integral 1260

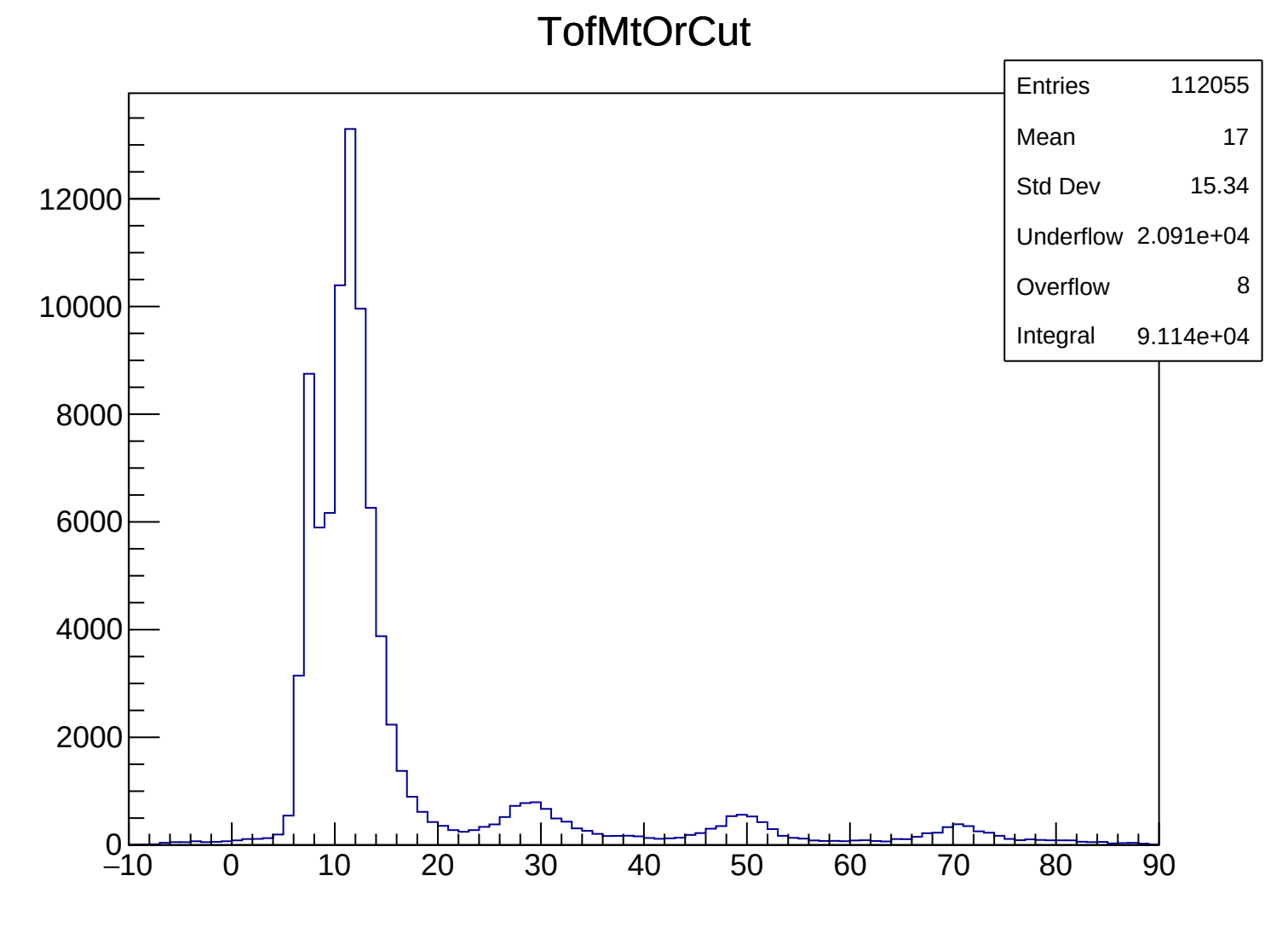

TofMt24
Entries 4237312
Mean 28.15
Std Dev 21.48
Underflow 4.236e+06
Overflow 0
Integral 837

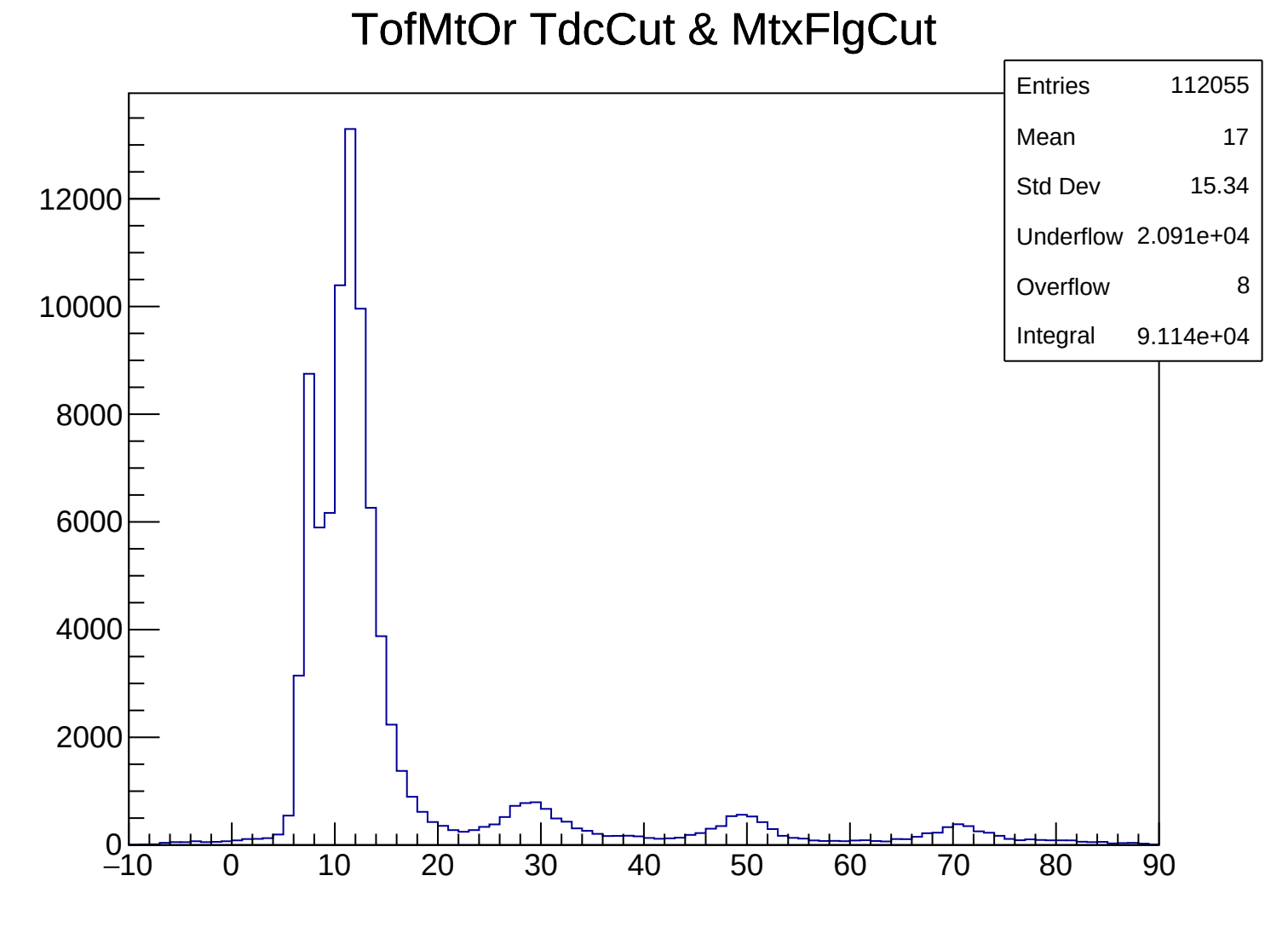

TofMtOr
Entries 1.016955e+08
Mean 17
Std Dev 15.34
Underflow 1.016e+08
Overflow 8
Integral 9.114e+04
12000
10000
8000
6000
4000
2000
0
−10
0
10
20
30
40
50
60
70
80
90

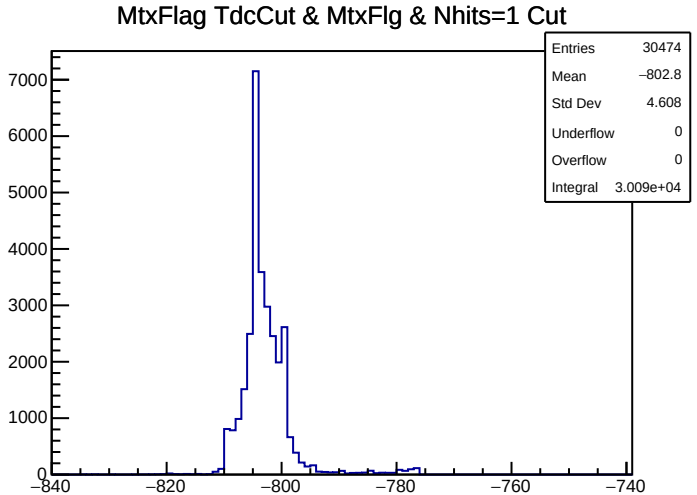

TofMtOrDepthPat
Entries 30263
Mean 1.007
Std Dev 0.08321
Underflow 0
Overflow 0
Integral 3.026e+04
30000
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
6
7
8
9
10

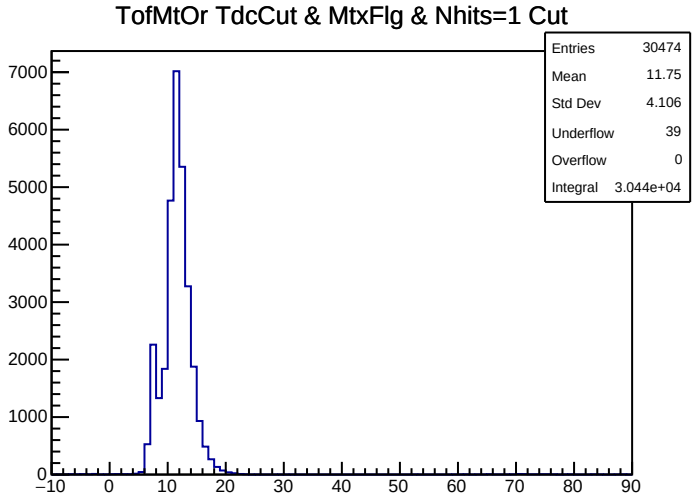

TofMtOrAllDepthPat
Entries 30474
Mean 1.007
Std Dev 0.08292
Underflow 0
Overflow 0
Integral 3.047e+04
30000
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
6
7
8
9
10

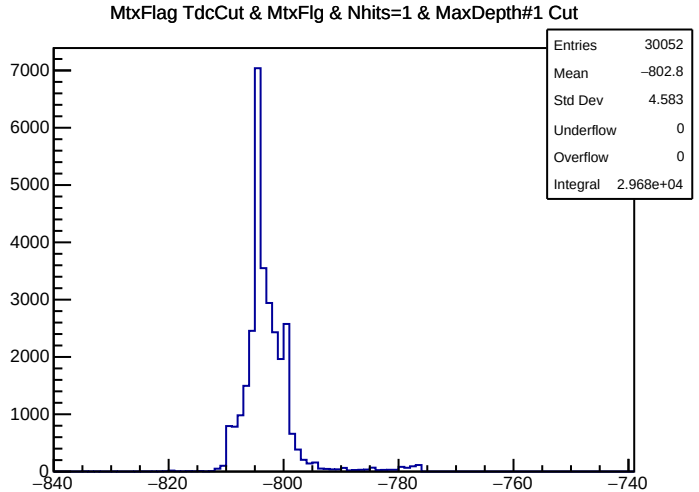

TofHitPat Cut:Nhits
Entries 30052
Mean 11.11
Std Dev 4.397
Underflow 0
Overflow 0
Integral 3.005e+04
3000
2500
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
18
20
22
24

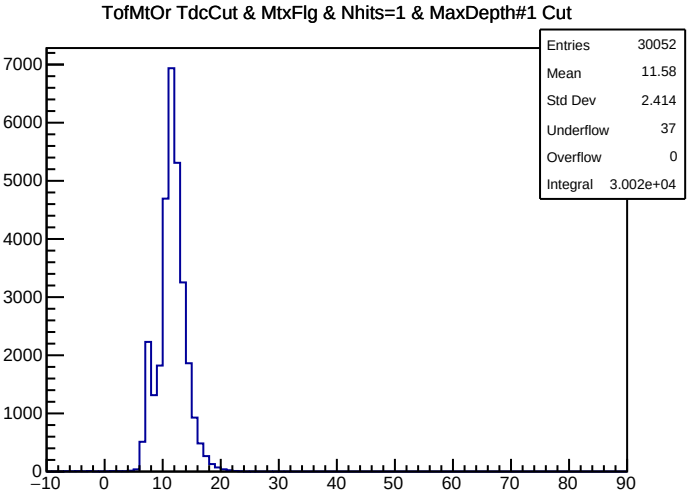

TofMtOrCut
Entries 112055
Mean 17
Std Dev 15.34
Underflow 2.091e+04
Overflow 8
Integral 9.114e+04
12000
10000
8000
6000
4000
2000
0
−10
0
10
20
30
40
50
60
70
80
90

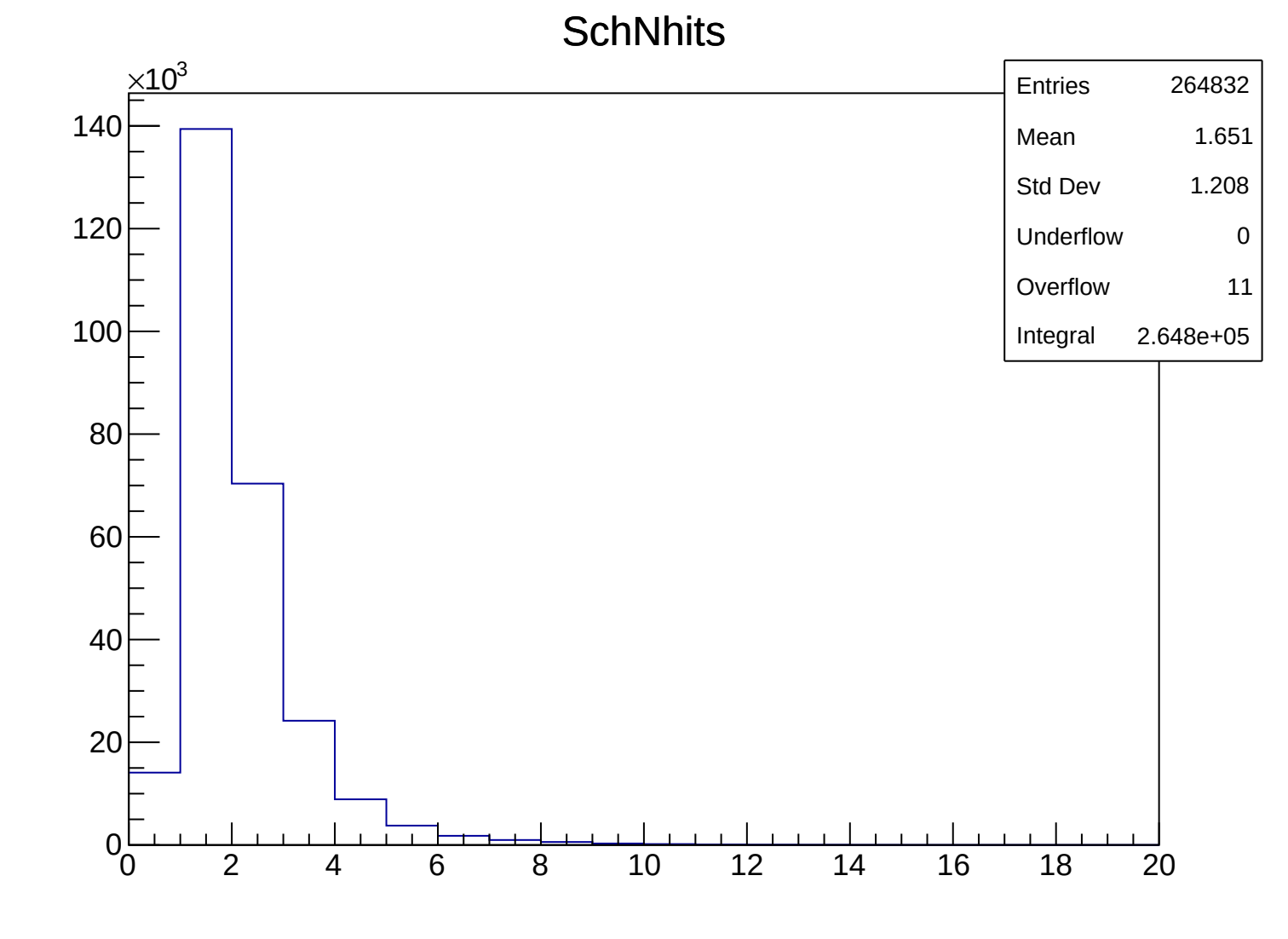

TofMtOr TdcCut & MtxFlgCut
Entries 112055
Mean 17
Std Dev 15.34
Underflow 2.091e+04
Overflow 8
Integral 9.114e+04
12000
10000
8000
6000
4000
2000
0
−10
0
10
20
30
40
50
60
70
80
90

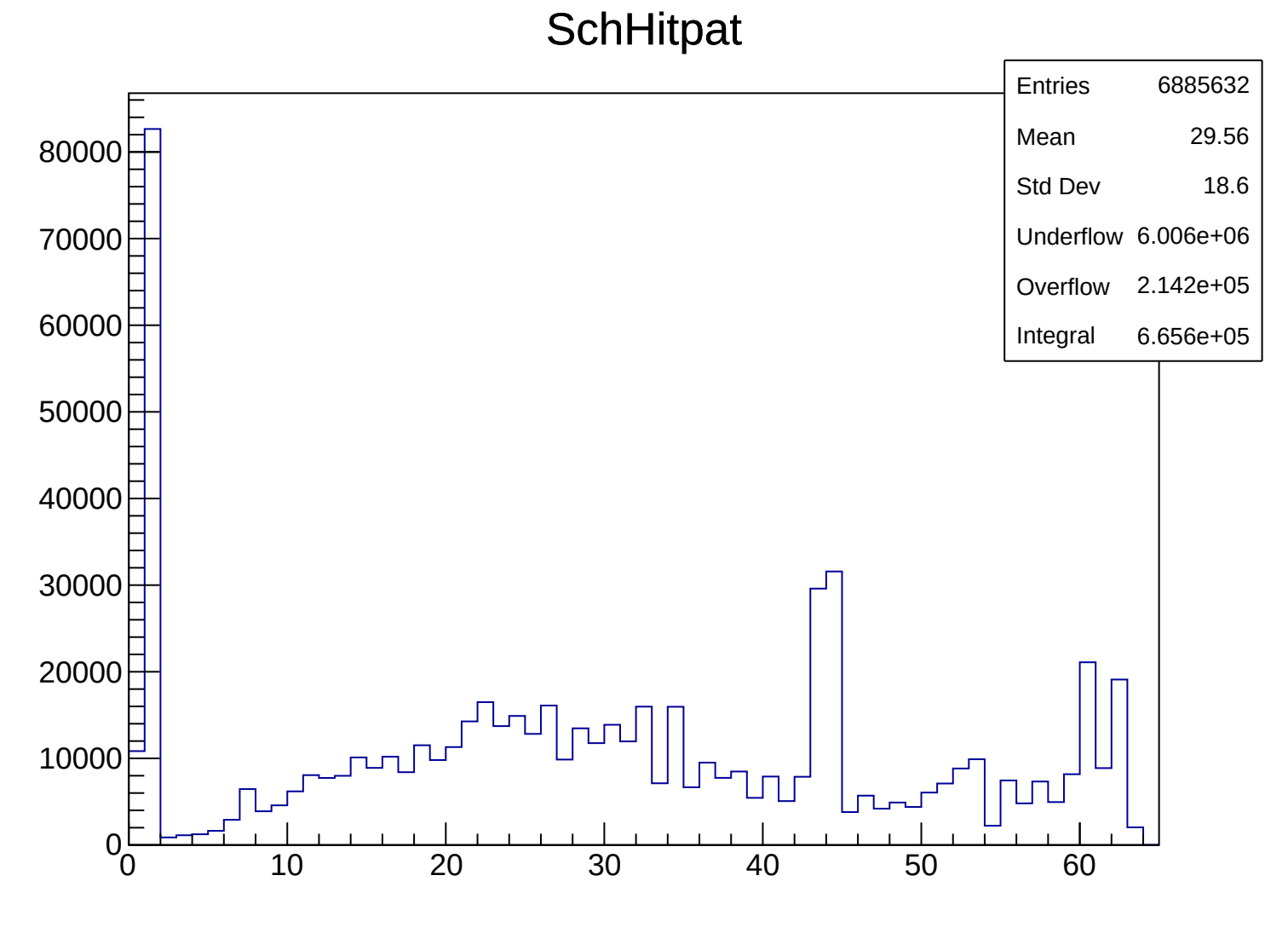

MtxFlag TdcCut & MtxFlg & Nhits=1 Cut
Entries 30474
Mean −802.8
Std Dev 4.608
Underflow 0
Overflow 0
Integral 3.009e+04
7000
6000
5000
4000
3000
2000
1000
0
−840
−820
−800
−780
−760
−740

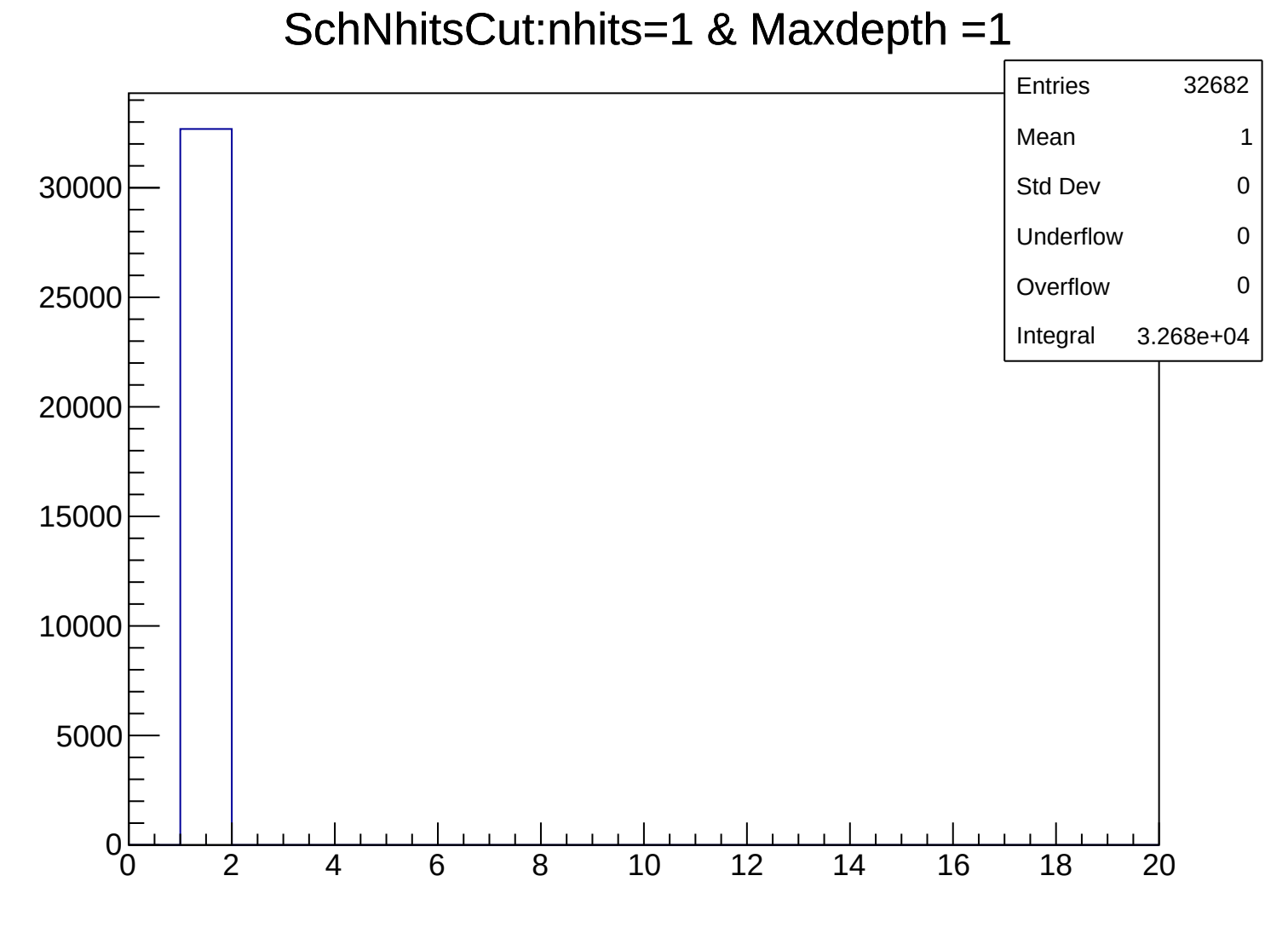

TofMtOr TdcCut & MtxFlg & Nhits=1 Cut
Entries 30474
Mean 11.75
Std Dev 4.106
Underflow 39
Overflow 0
Integral 3.044e+04
7000
6000
5000
4000
3000
2000
1000
0
−10
0
10
20
30
40
50
60
70
80
90

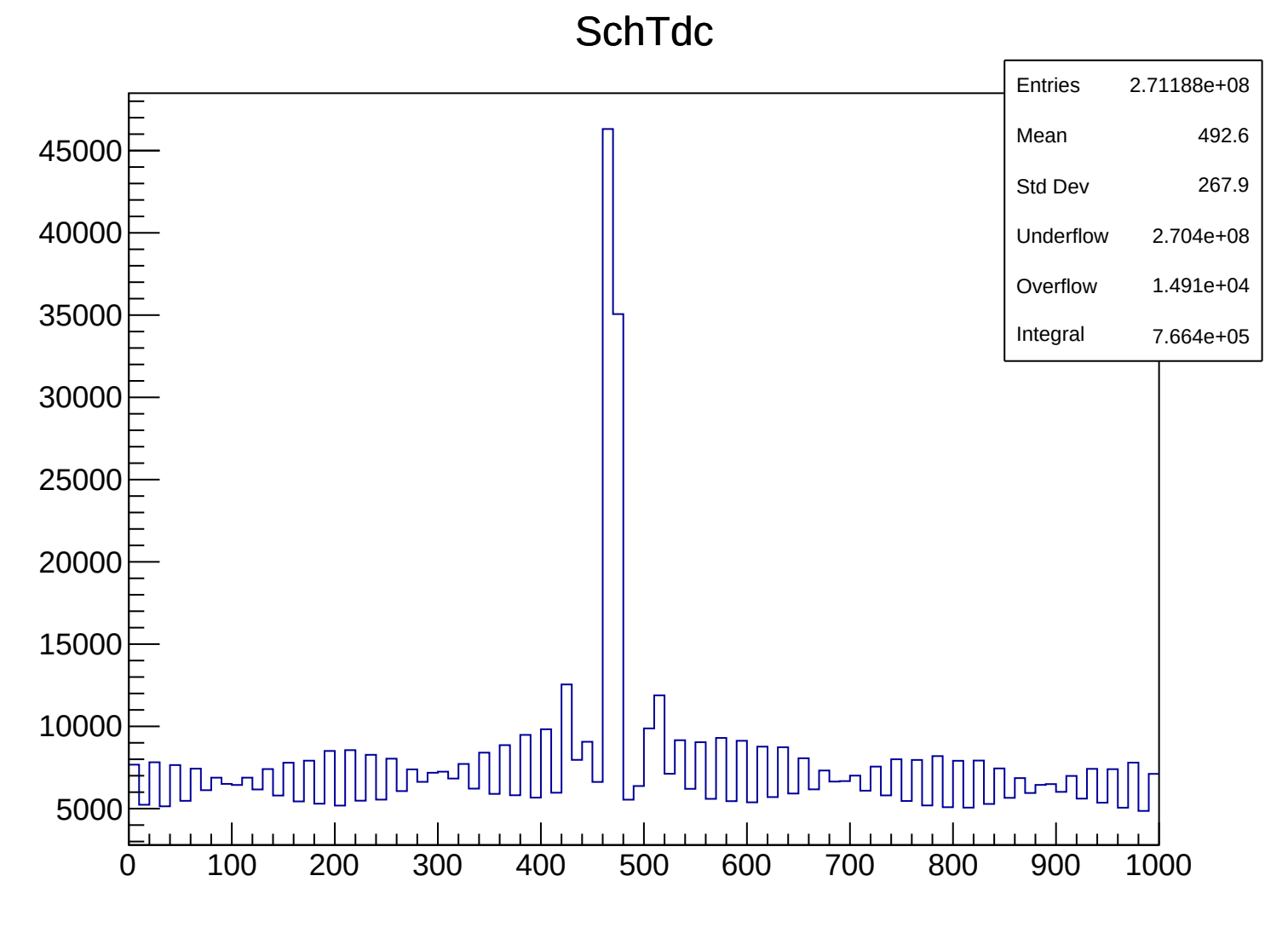

MtxFlag TdcCut & MtxFlg & Nhits=1 & MaxDepth#1 Cut
Entries 30052
Mean −802.8
Std Dev 4.583
Underflow 0
Overflow 0
Integral 2.968e+04
7000
6000
5000
4000
3000
2000
1000
0
−840
−820
−800
−780
−760
−740

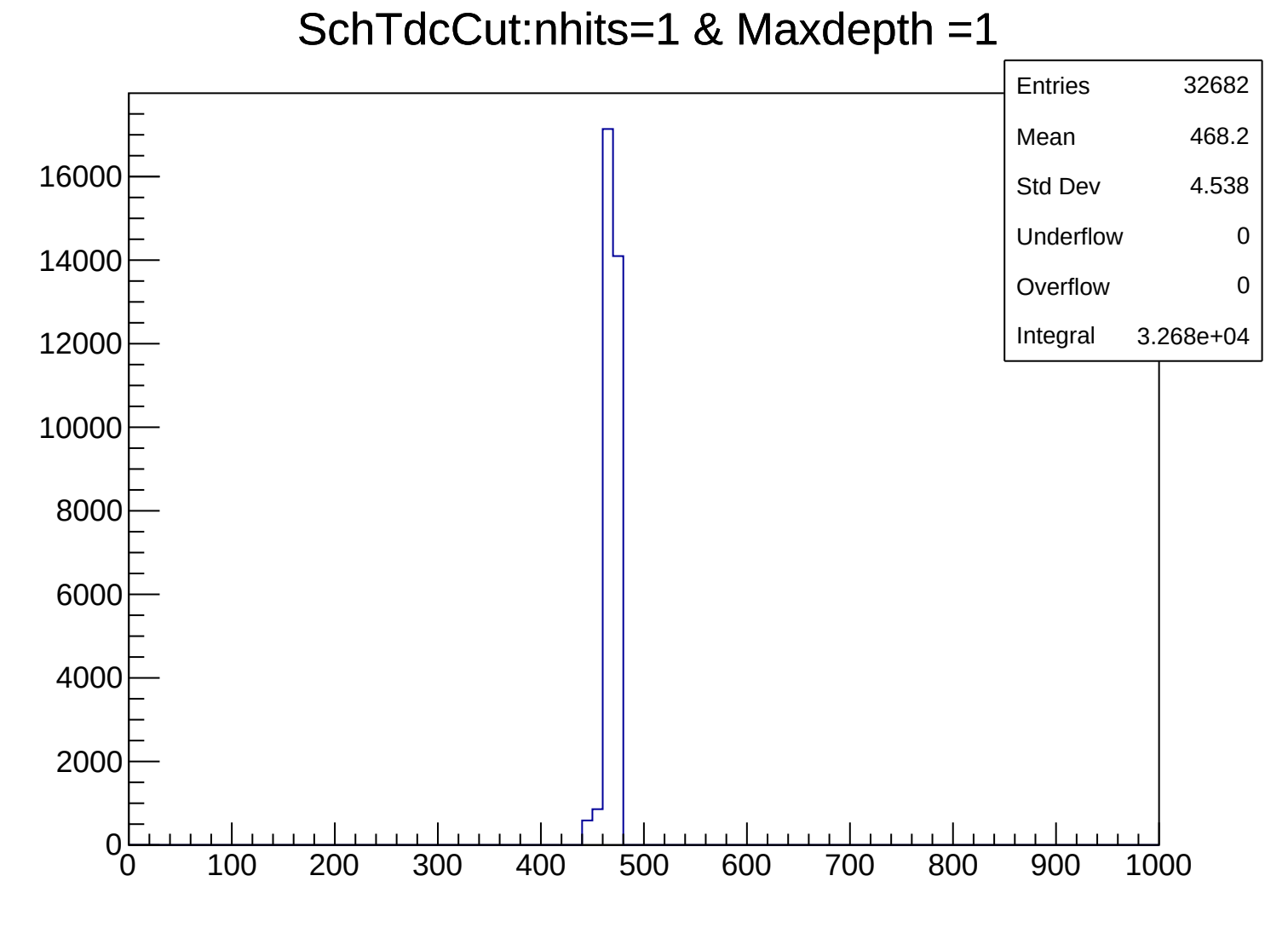

TofMtOr TdcCut & MtxFlg & Nhits=1 & MaxDepth#1 Cut
Entries 30052
Mean 11.58
Std Dev 2.414
Underflow 37
Overflow 0
Integral 3.002e+04
7000
6000
5000
4000
3000
2000
1000
0
−10
0
10
20
30
40
50
60
70
80
90

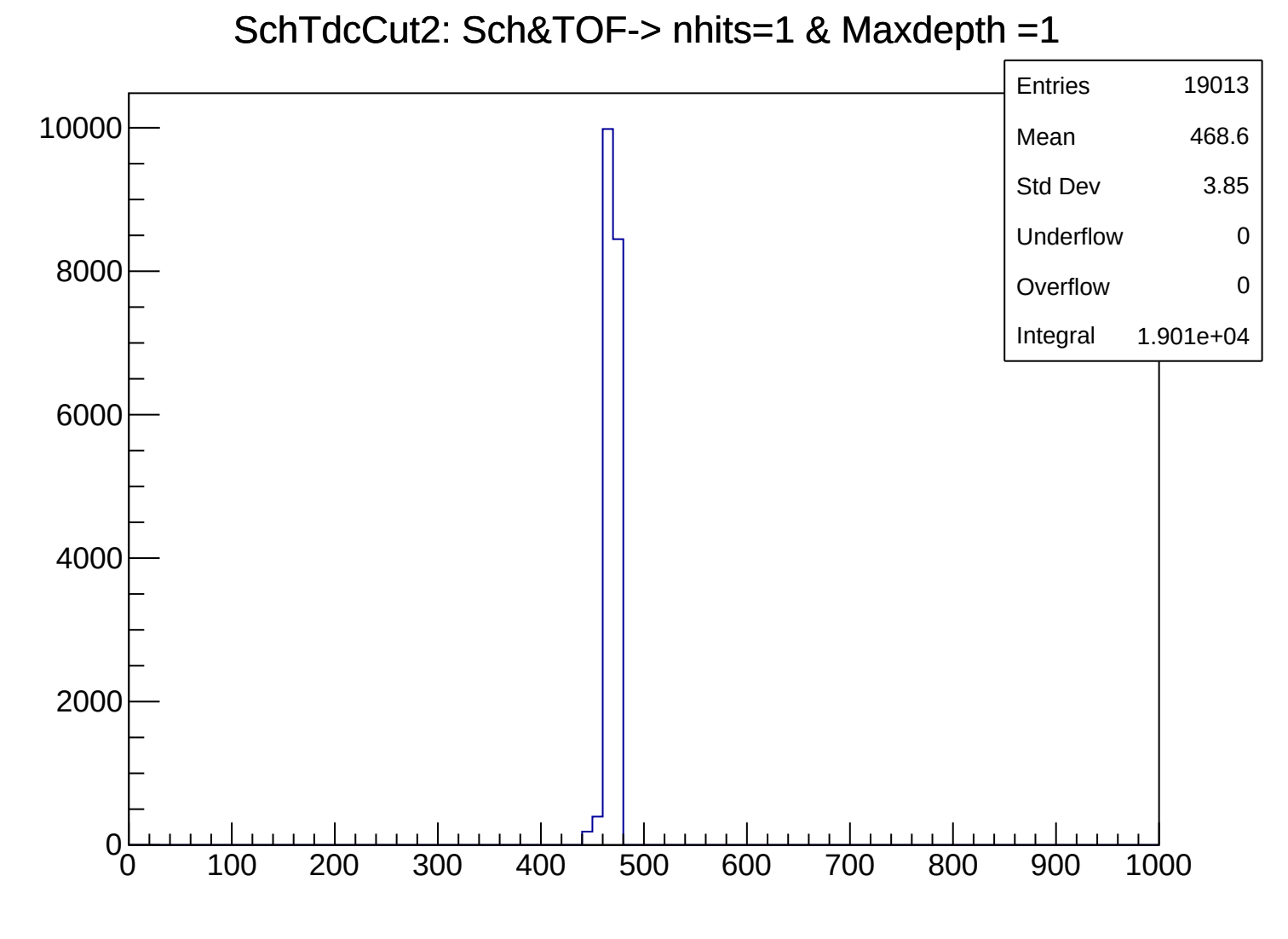

SchNhits
×10^3
140
120
100
80
60
40
20
0
0
2
4
6
8
10
12
14
16
18
20
Entries 264832
Mean 1.651
Std Dev 1.208
Underflow 0
Overflow 11
Integral 2.648e+05

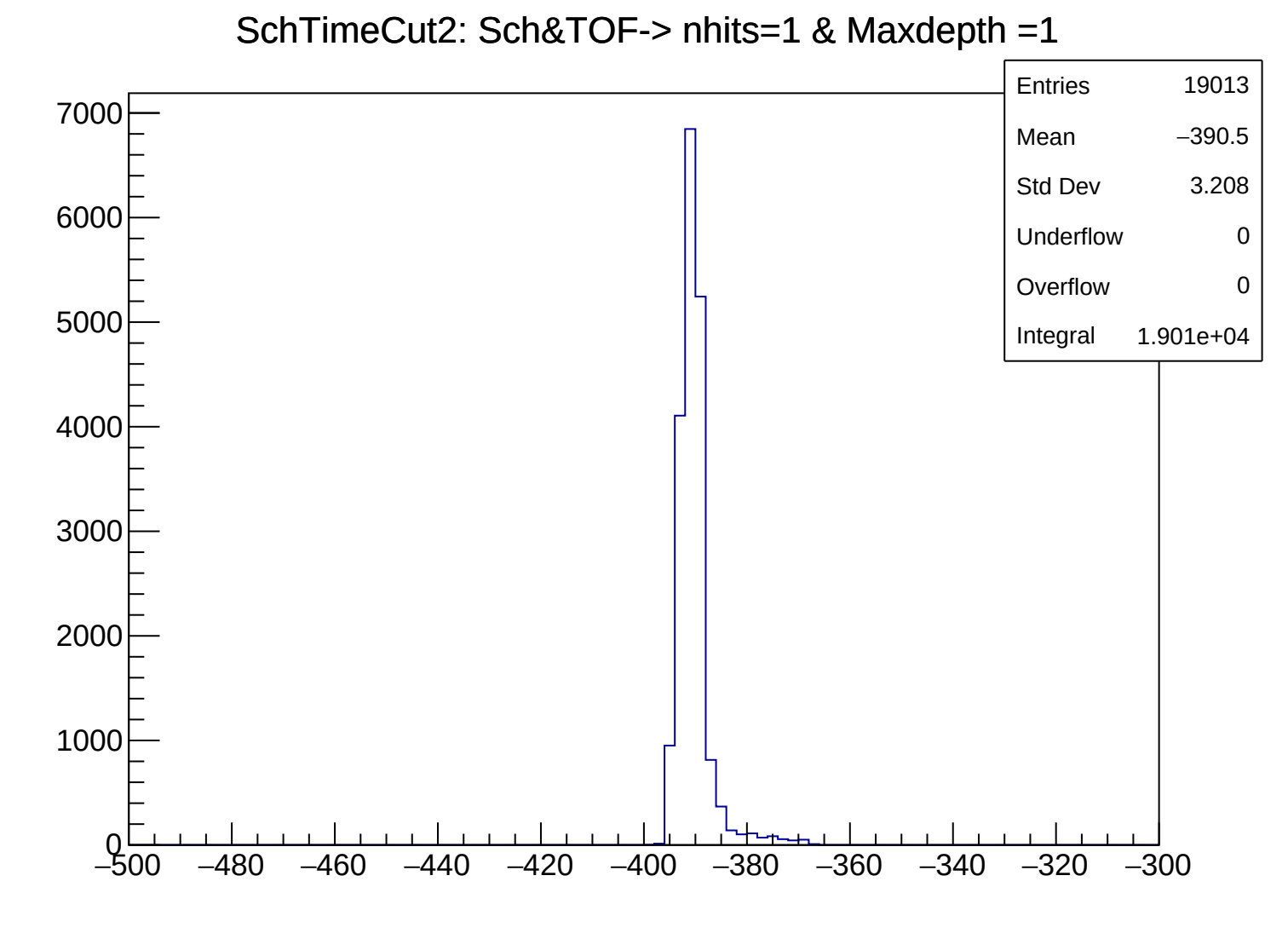

SchHitpat
Entries 6885632
Mean 29.56
Std Dev 18.6
Underflow 6.006e+06
Overflow 2.142e+05
Integral 6.656e+05
80000
70000
60000
50000
40000
30000
20000
10000
0
0
10
20
30
40
50
60

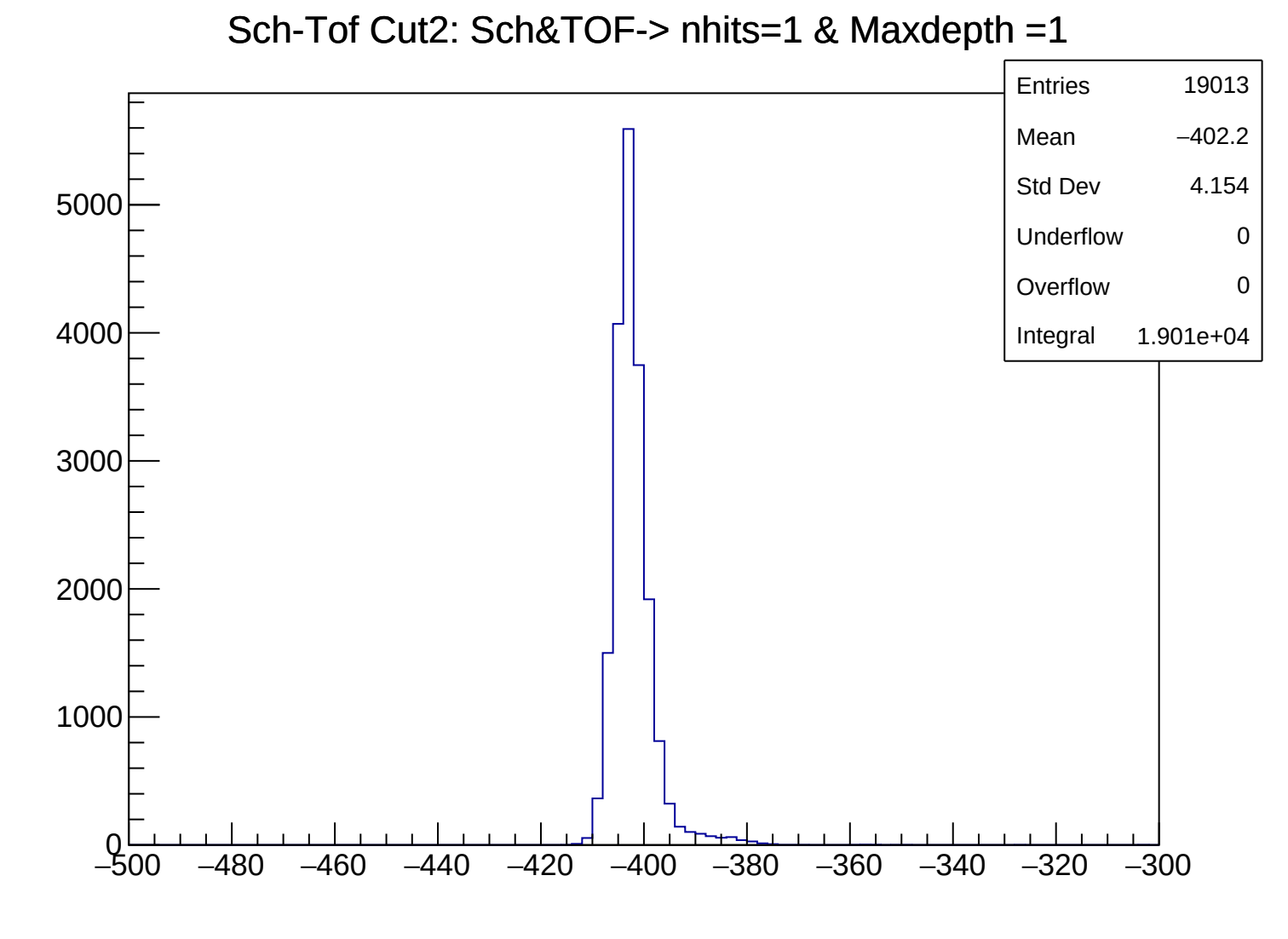

SchNhitsCut:nhits=1 & Maxdepth =1
Entries 32682
Mean 1
Std Dev 0
Underflow 0
Overflow 0
Integral 3.268e+04
30000
25000
20000
15000
10000
5000
0
0
2
4
6
8
10
12
14
16
18
20

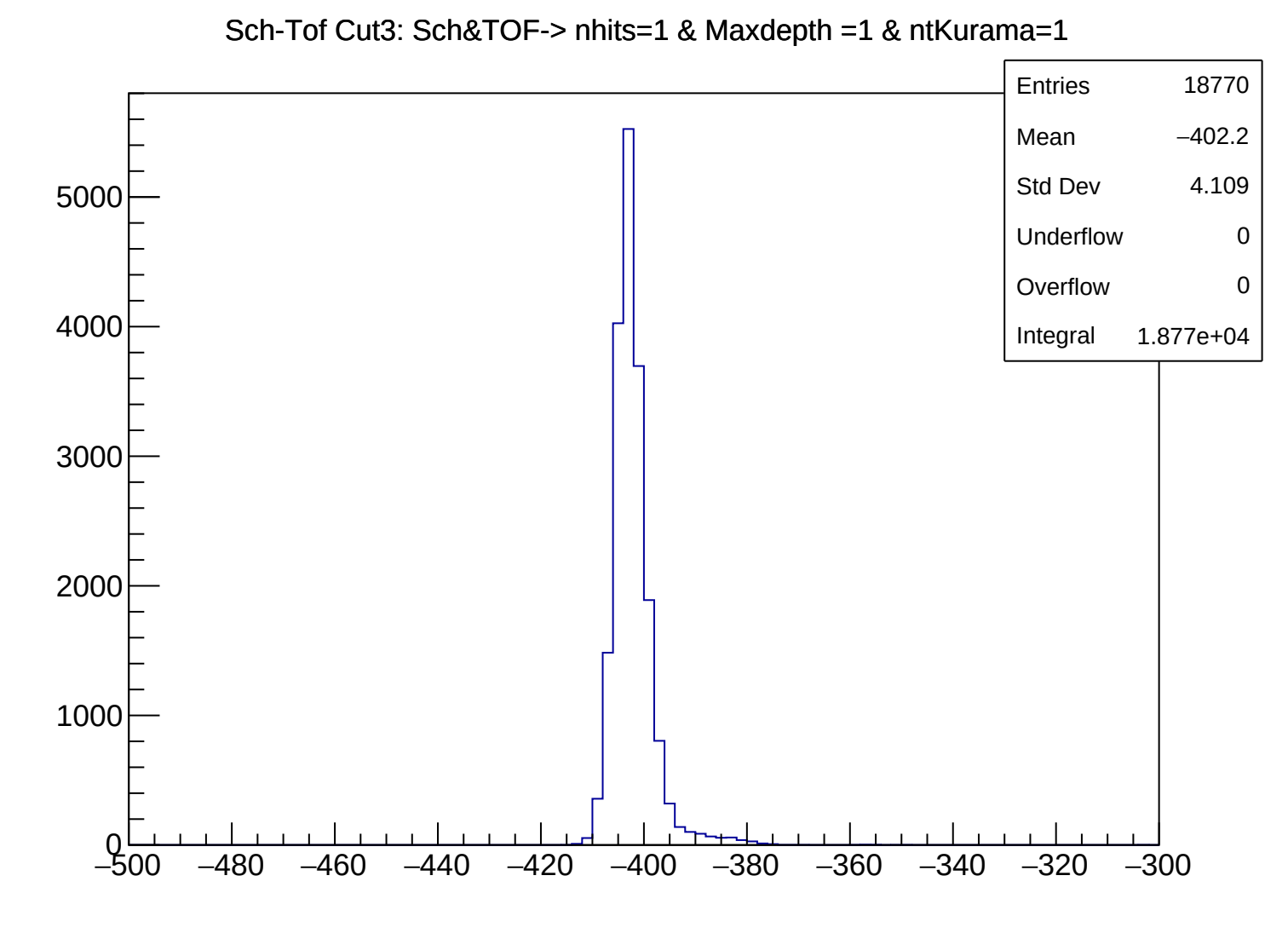

SchTdc
Entries 2.71188e+08
Mean 492.6
Std Dev 267.9
Underflow 2.704e+08
Overflow 1.491e+04
Integral 7.664e+05
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
100
200
300
400
500
600
700
800
900
1000

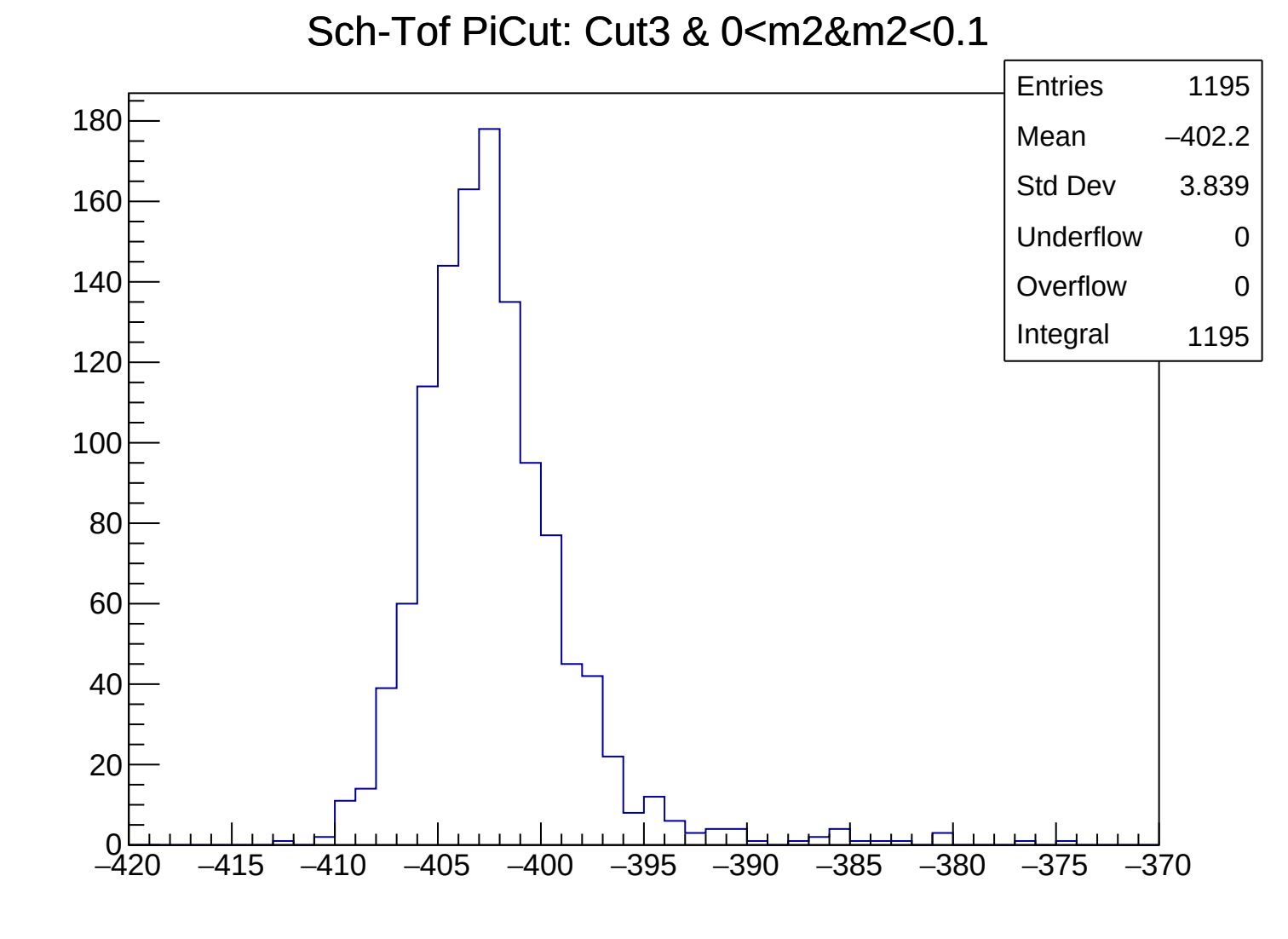

SchTdcCut:nhits=1 & Maxdepth =1
Entries 32682
Mean 468.2
Std Dev 4.538
Underflow 0
Overflow 0
Integral 3.268e+04
16000
14000
12000
10000
8000
6000
4000
2000
0
0
100
200
300
400
500
600
700
800
900
1000

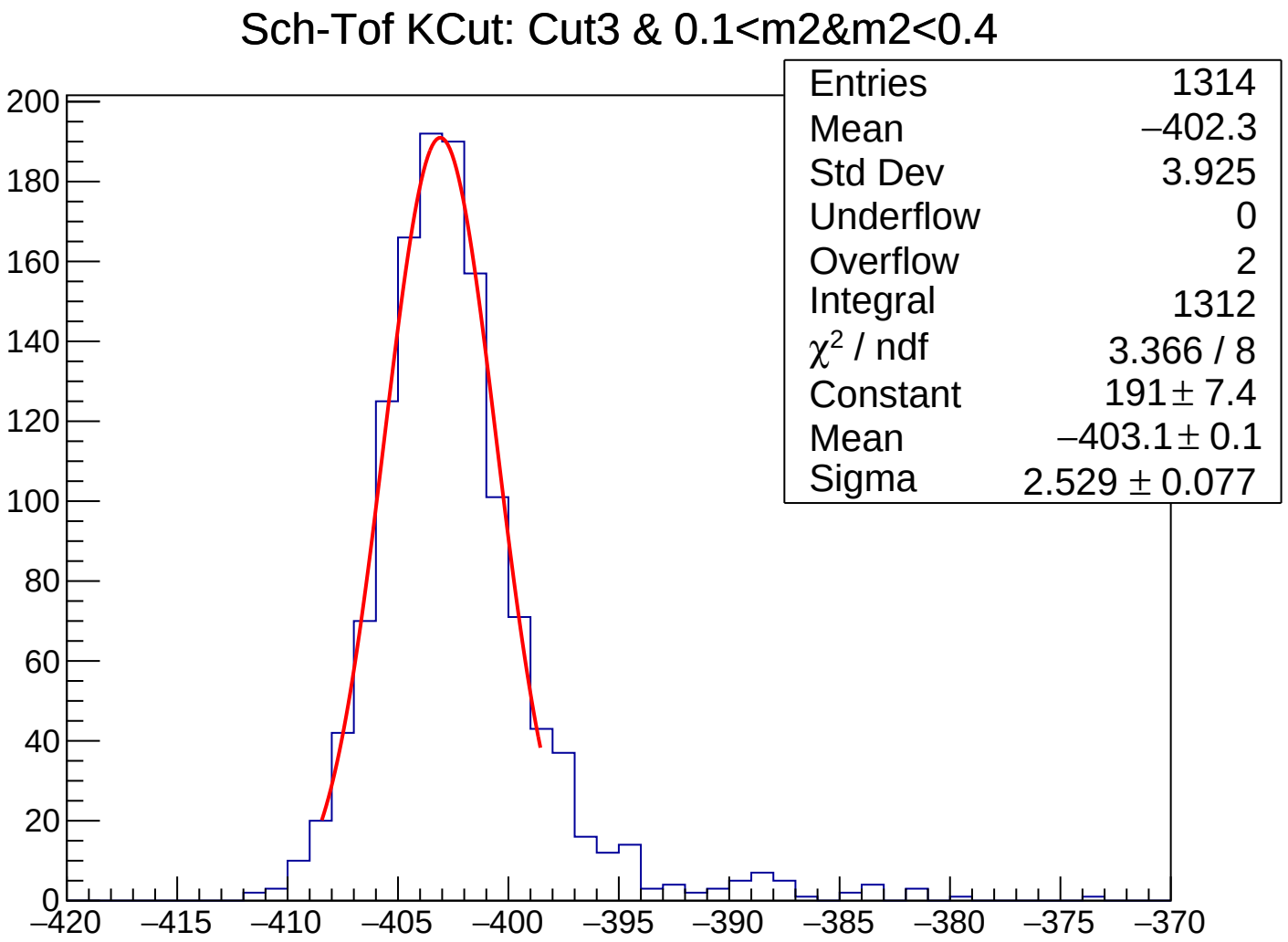

SchTdcCut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 19013
Mean 468.6
Std Dev 3.85
Underflow 0
Overflow 0
Integral 1.901e+04
10000
8000
6000
4000
2000
0
0
100
200
300
400
500
600
700
800
900
1000

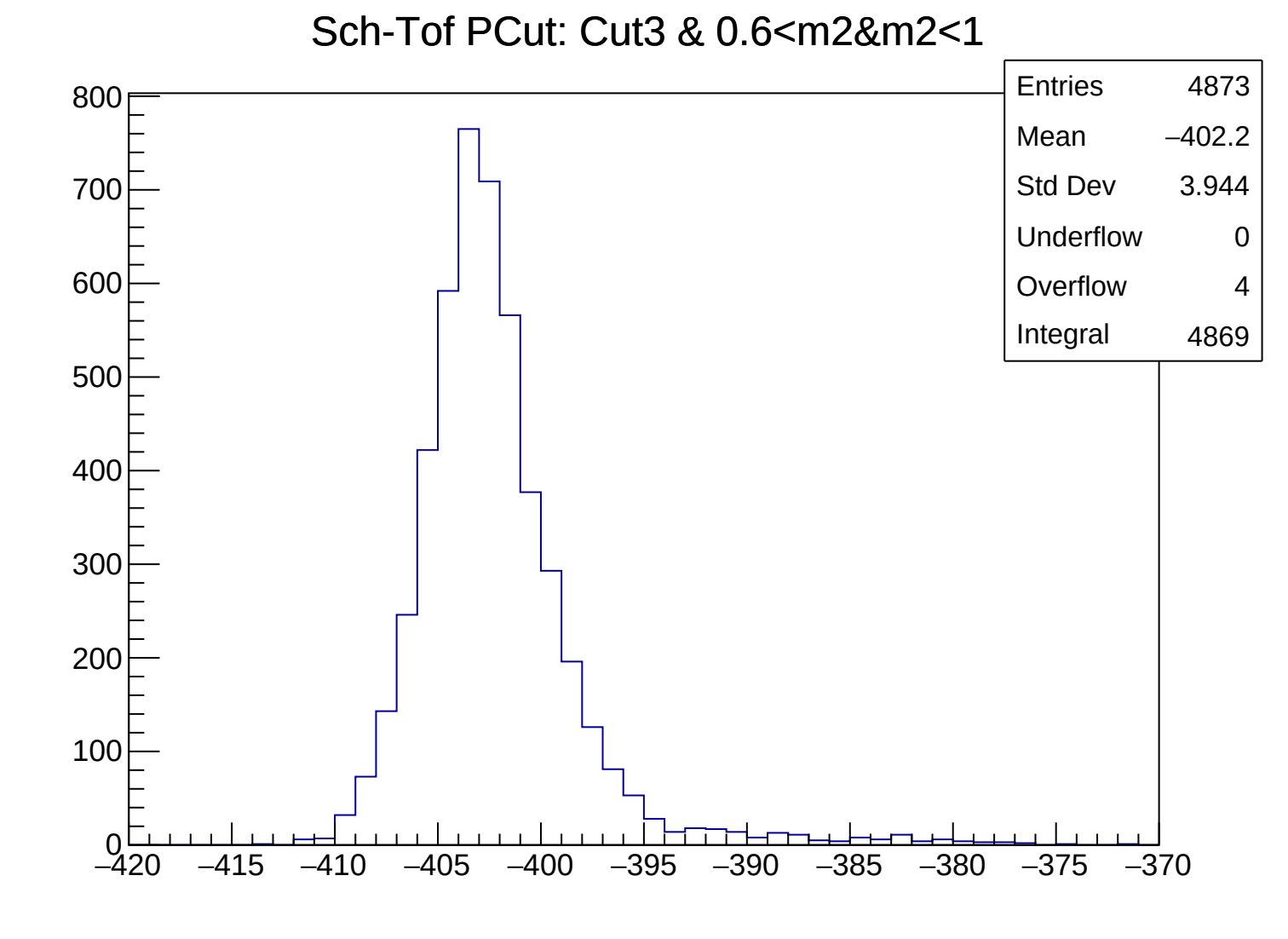

SchTimeCut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 19013
Mean −390.5
Std Dev 3.208
Underflow 0
Overflow 0
Integral 1.901e+04
7000
6000
5000
4000
3000
2000
1000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

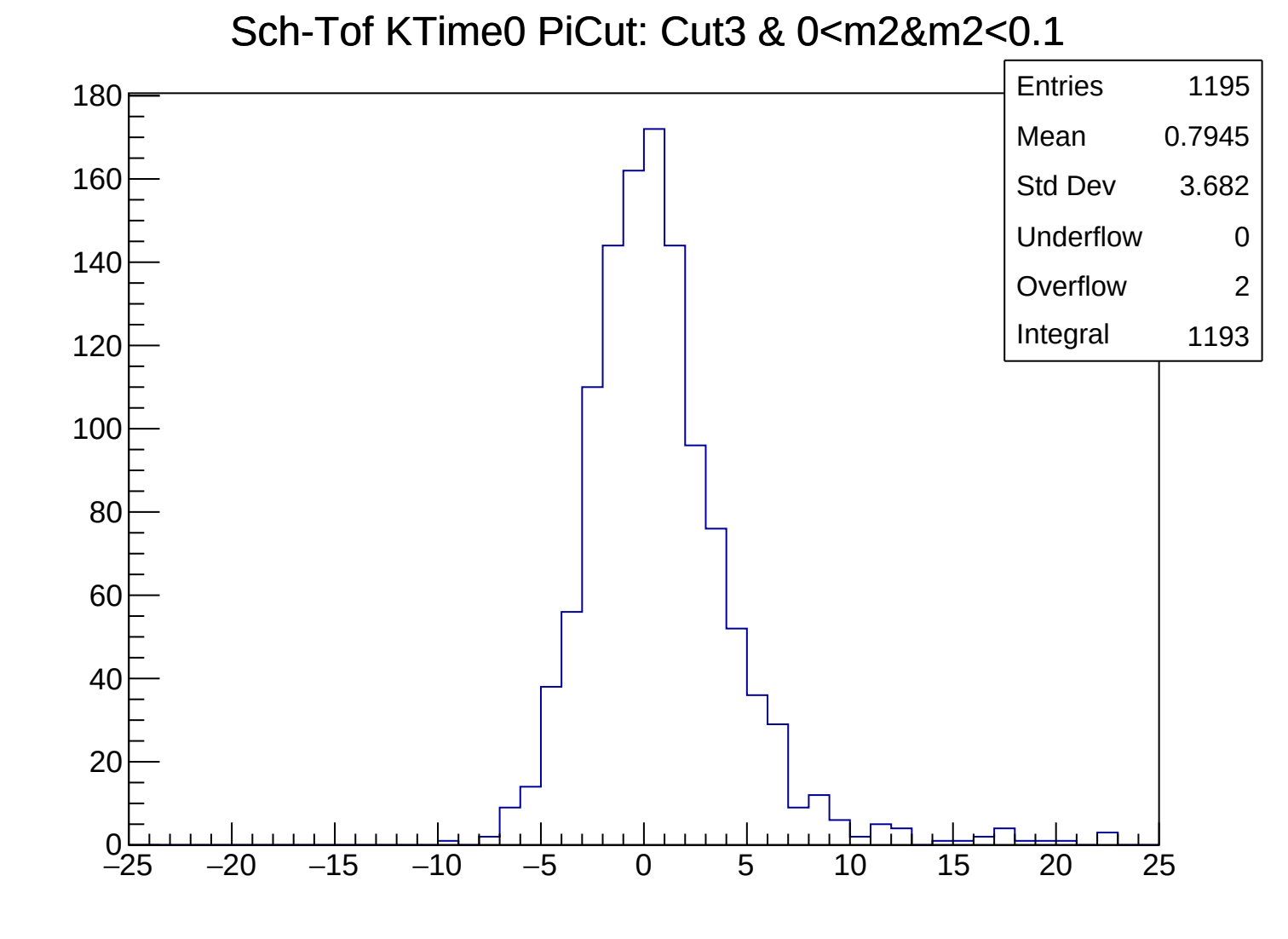

Sch-Tof Cut2: Sch&TOF-> nhits=1 & Maxdepth =1
Entries 19013
Mean −402.2
Std Dev 4.154
Underflow 0
Overflow 0
Integral 1.901e+04
5000
4000
3000
2000
1000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

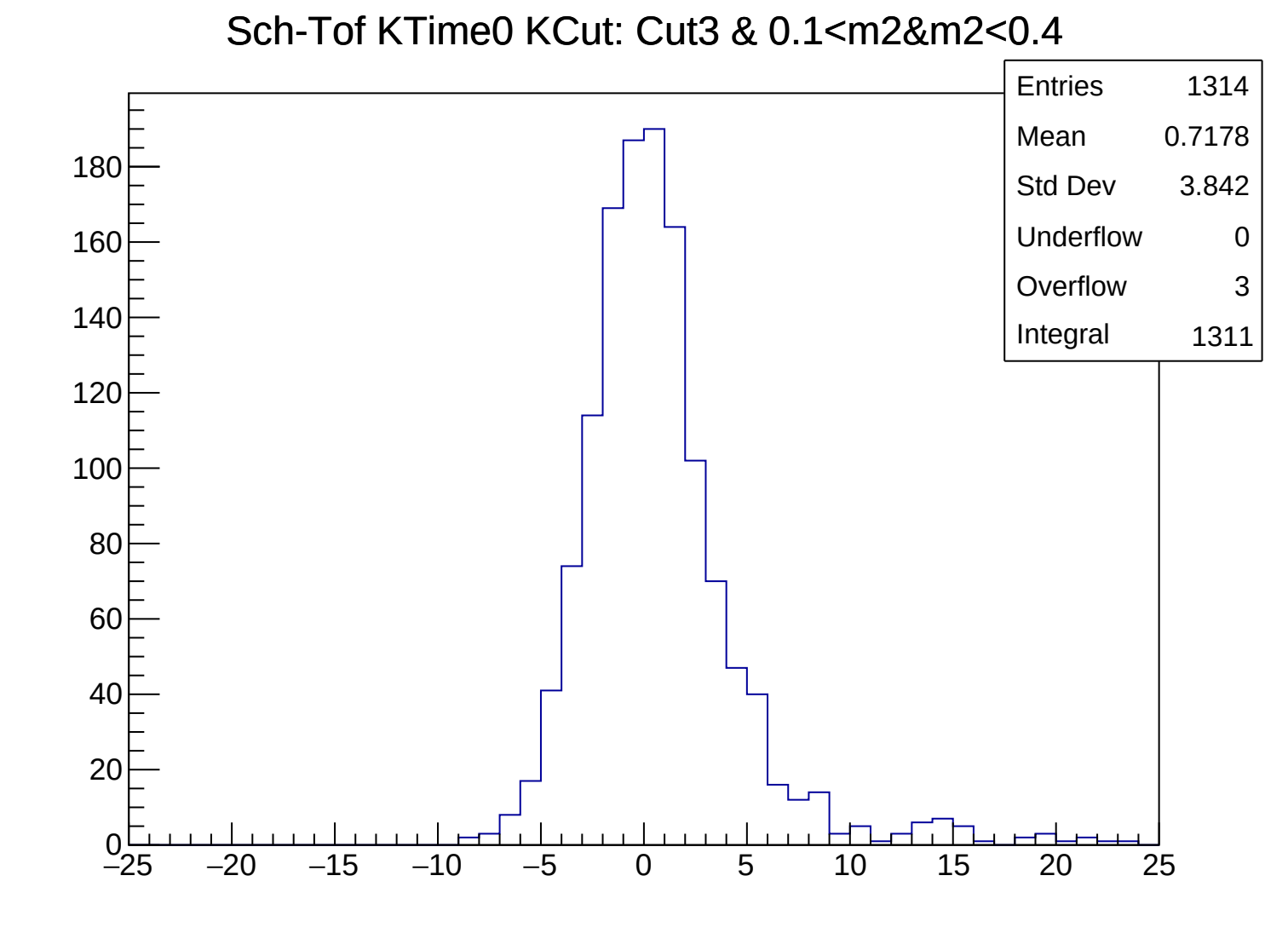

Sch-Tof Cut3: Sch&TOF-> nhits=1 & Maxdepth =1 & ntKurama=1
Entries 18770
Mean −402.2
Std Dev 4.109
Underflow 0
Overflow 0
Integral 1.877e+04
5000
4000
3000
2000
1000
0
−500
−480
−460
−440
−420
−400
−380
−360
−340
−320
−300

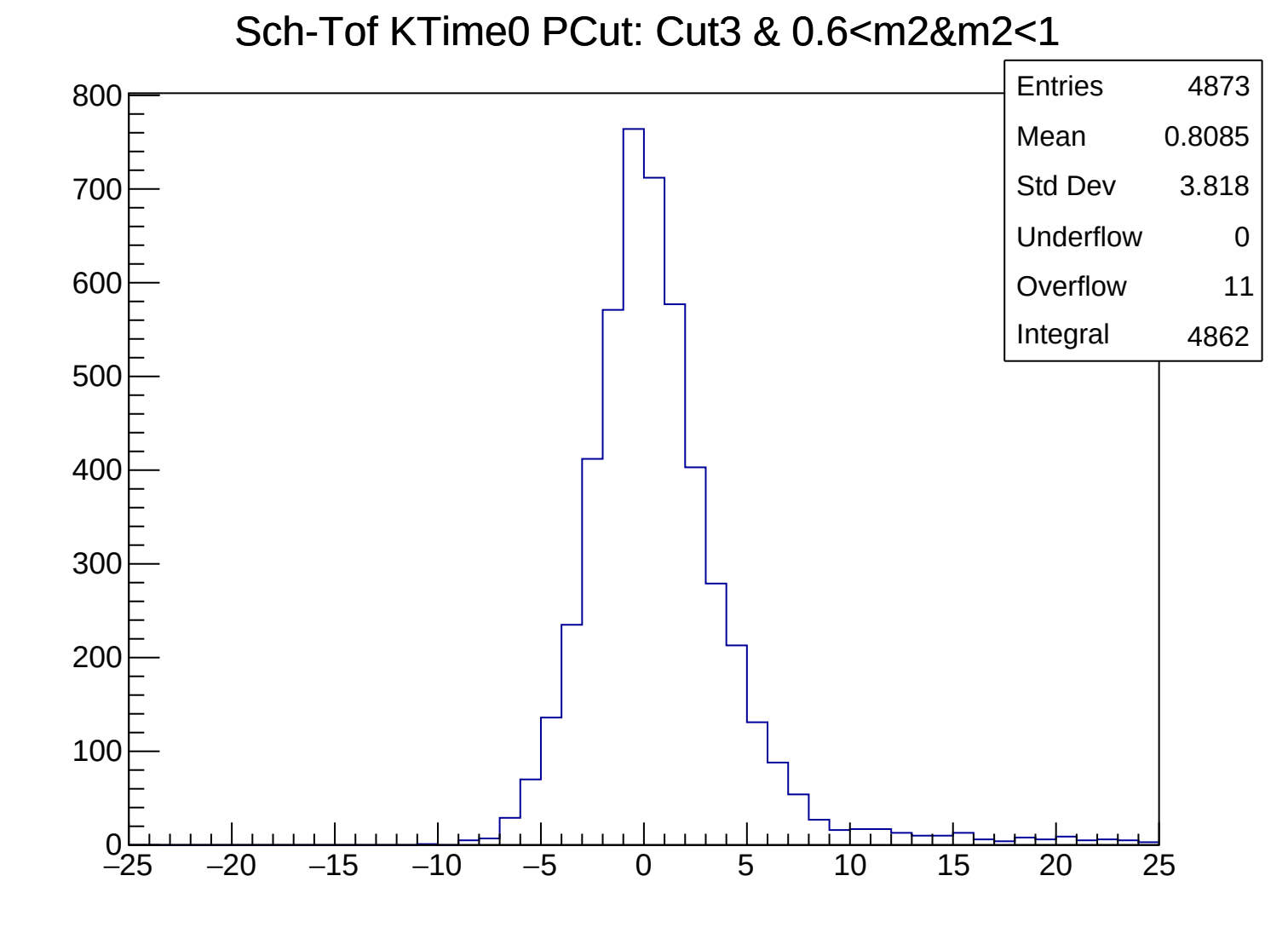

Sch-Tof PiCut: Cut3 & 0<m2&m2<0.1
Entries 1195
Mean –402.2
Std Dev 3.839
Underflow 0
Overflow 0
Integral 1195
180
160
140
120
100
80
60
40
20
0
–420
–415
–410
–405
–400
–395
–390
–385
–380
–375
–370

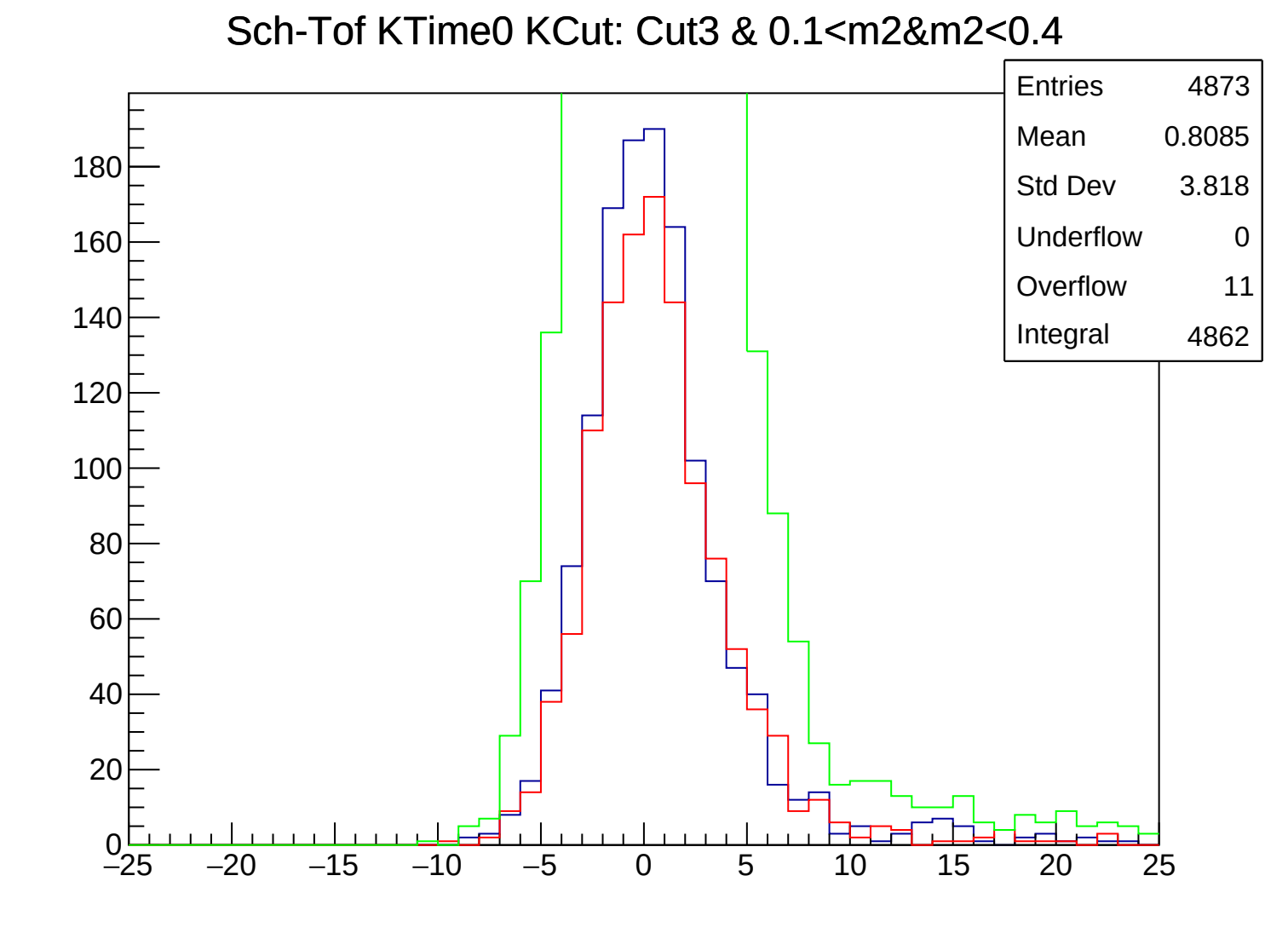

Sch-Tof KCut: Cut3 & 0.1<m2&m2<0.4
Entries 1314
Mean –402.3
Std Dev 3.925
Underflow 0
Overflow 2
Integral 1312
χ² / ndf 3.366 / 8
Constant 191 ± 7.4
Mean –403.1 ± 0.1
Sigma 2.529 ± 0.077
200
180
160
140
120
100
80
60
40
20
0
–420
–415
–410
–405
–400
–395
–390
–385
–380
–375
–370


Sch-Tof PCut: Cut3 & 0.6<m2&m2<1
Entries 4873
Mean –402.2
Std Dev 3.944
Underflow 0
Overflow 4
Integral 4869
800
700
600
500
400
300
200
100
0
–420
–415
–410
–405
–400
–395
–390
–385
–380
–375
–370


Sch-Tof KTime0 PiCut: Cut3 & 0<m2&m2<0.1
Entries 1195
Mean 0.7945
Std Dev 3.682
Underflow 0
Overflow 2
Integral 1193
180
160
140
120
100
80
60
40
20
0
–25
–20
–15
–10
–5
0
5
10
15
20
25


Sch-Tof KTime0 KCut: Cut3 & 0.1<m2&m2<0.4
Entries 1314
Mean 0.7178
Std Dev 3.842
Underflow 0
Overflow 3
Integral 1311
180
160
140
120
100
80
60
40
20
0
–25
–20
–15
–10
–5
0
5
10
15
20
25


Sch-Tof KTime0 PCut: Cut3 & 0.6<m2&m2<1
Entries 4873
Mean 0.8085
Std Dev 3.818
Underflow 0
Overflow 11
Integral 4862
800
700
600
500
400
300
200
100
0
−25
−20
−15
−10
−5
0
5
10
15
20
25


Sch-Tof KTime0 KCut: Cut3 & 0.1<m2&m2<0.4
Entries 4873
Mean 0.8085
Std Dev 3.818
Underflow 0
Overflow 11
Integral 4862
180
160
140
120
100
80
60
40
20
0
–25
–20
–15
–10
–5
0
5
10
15
20
25