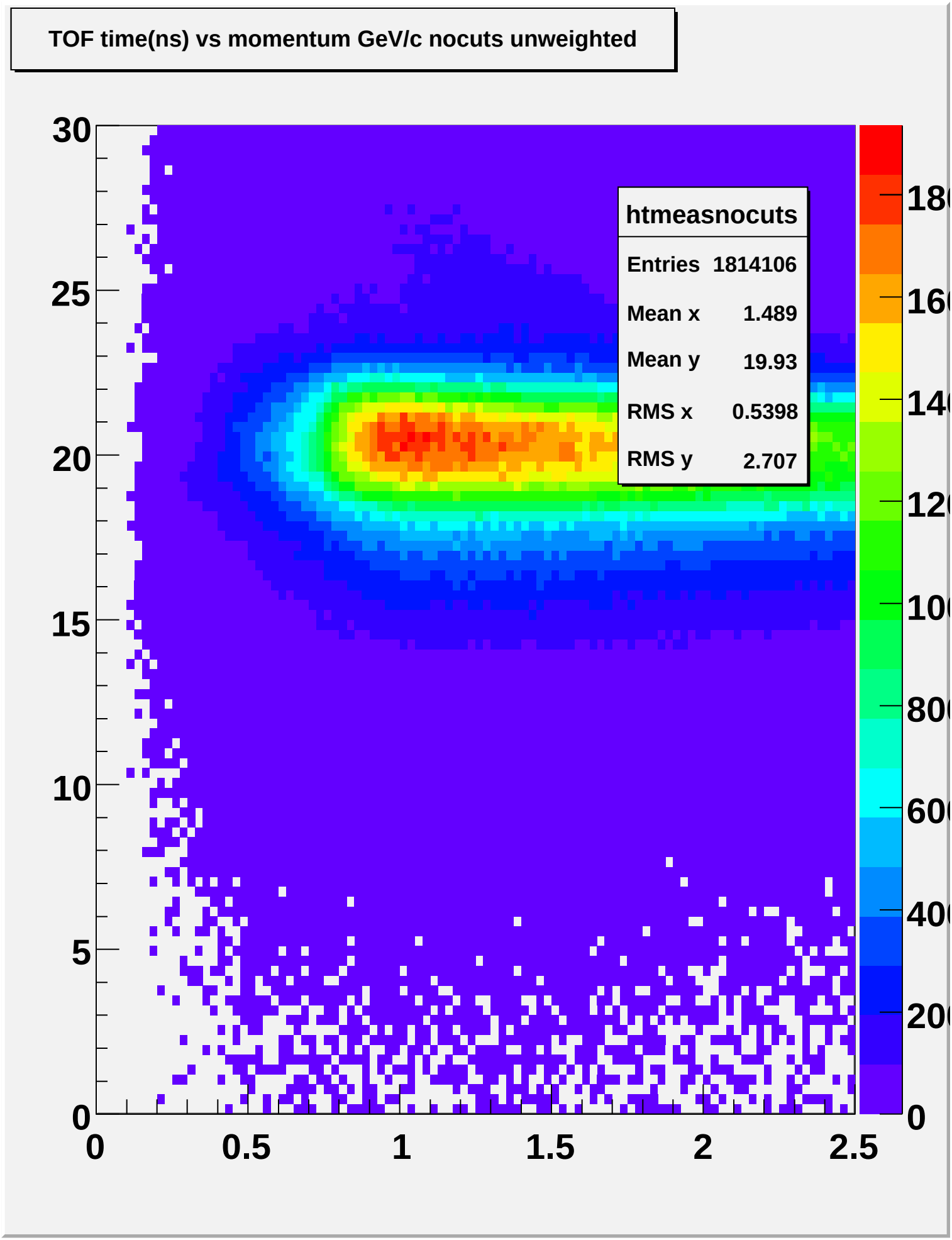
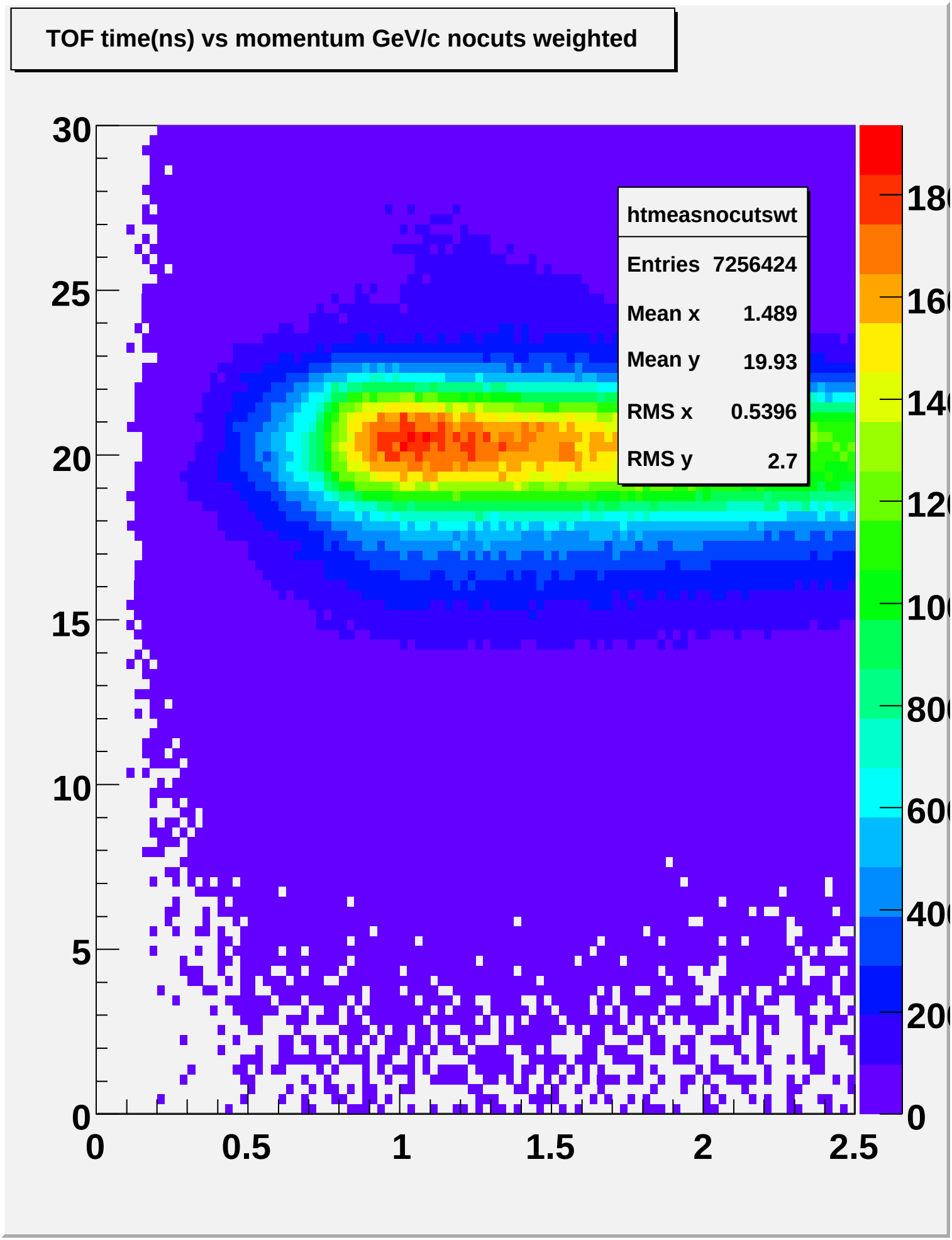
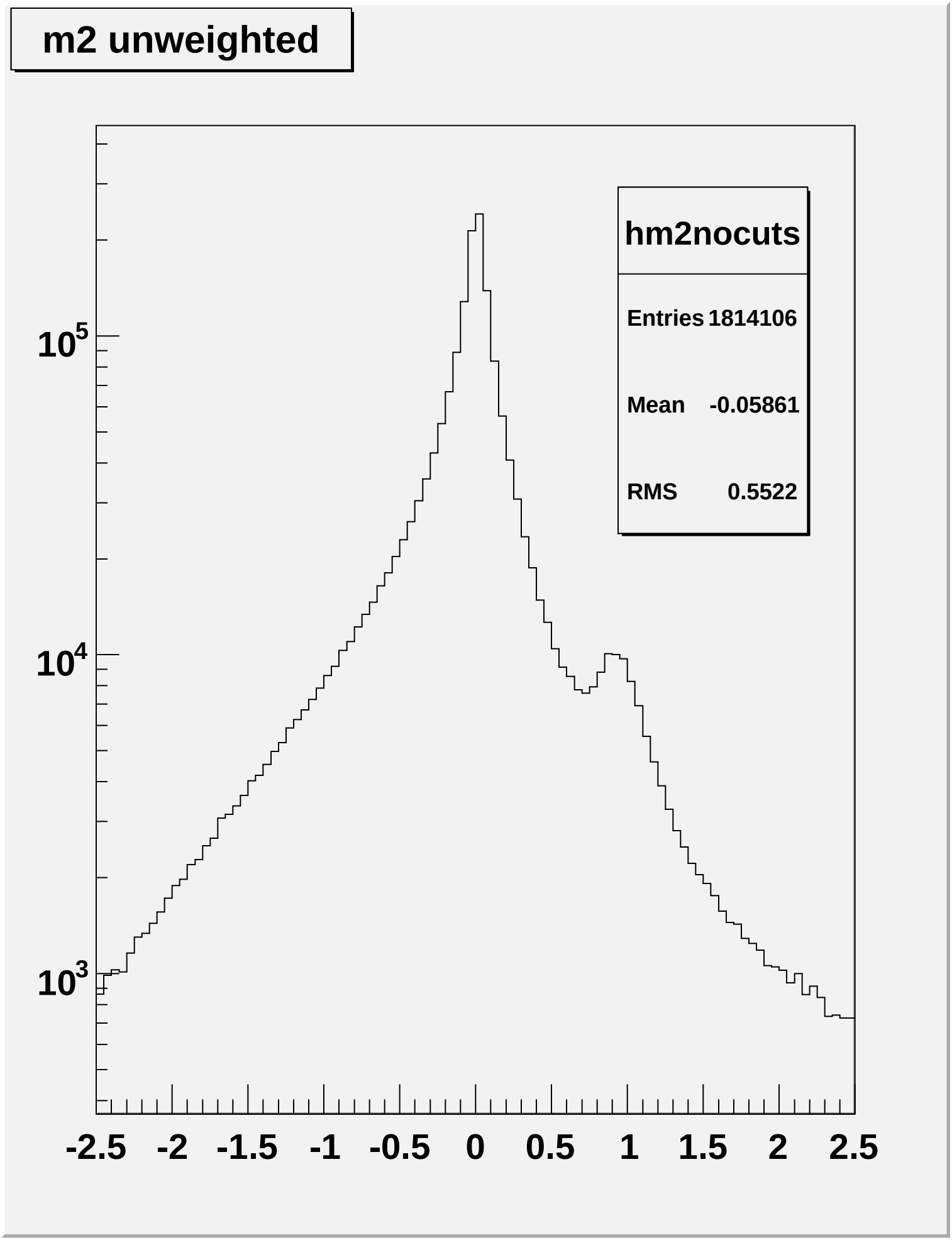
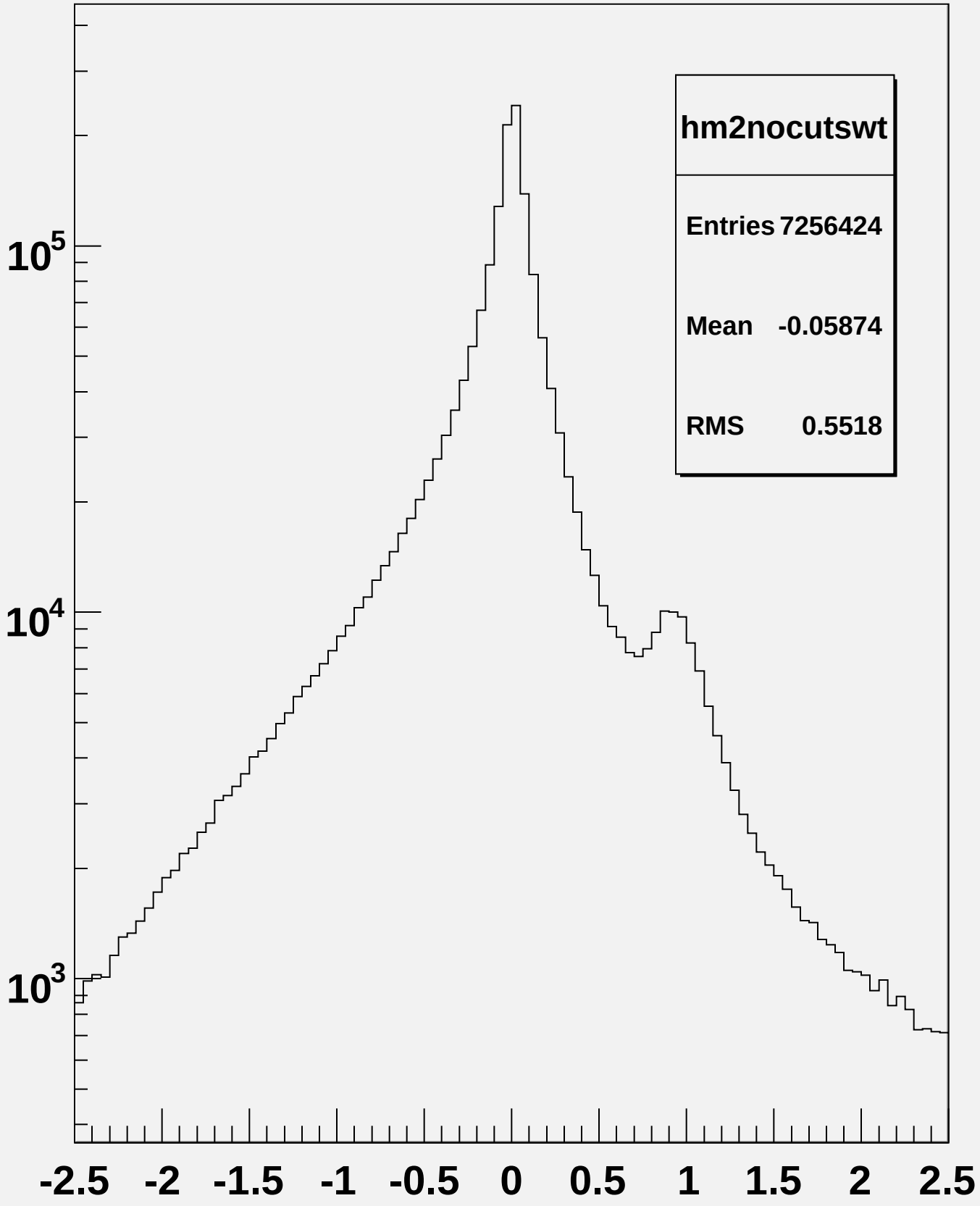
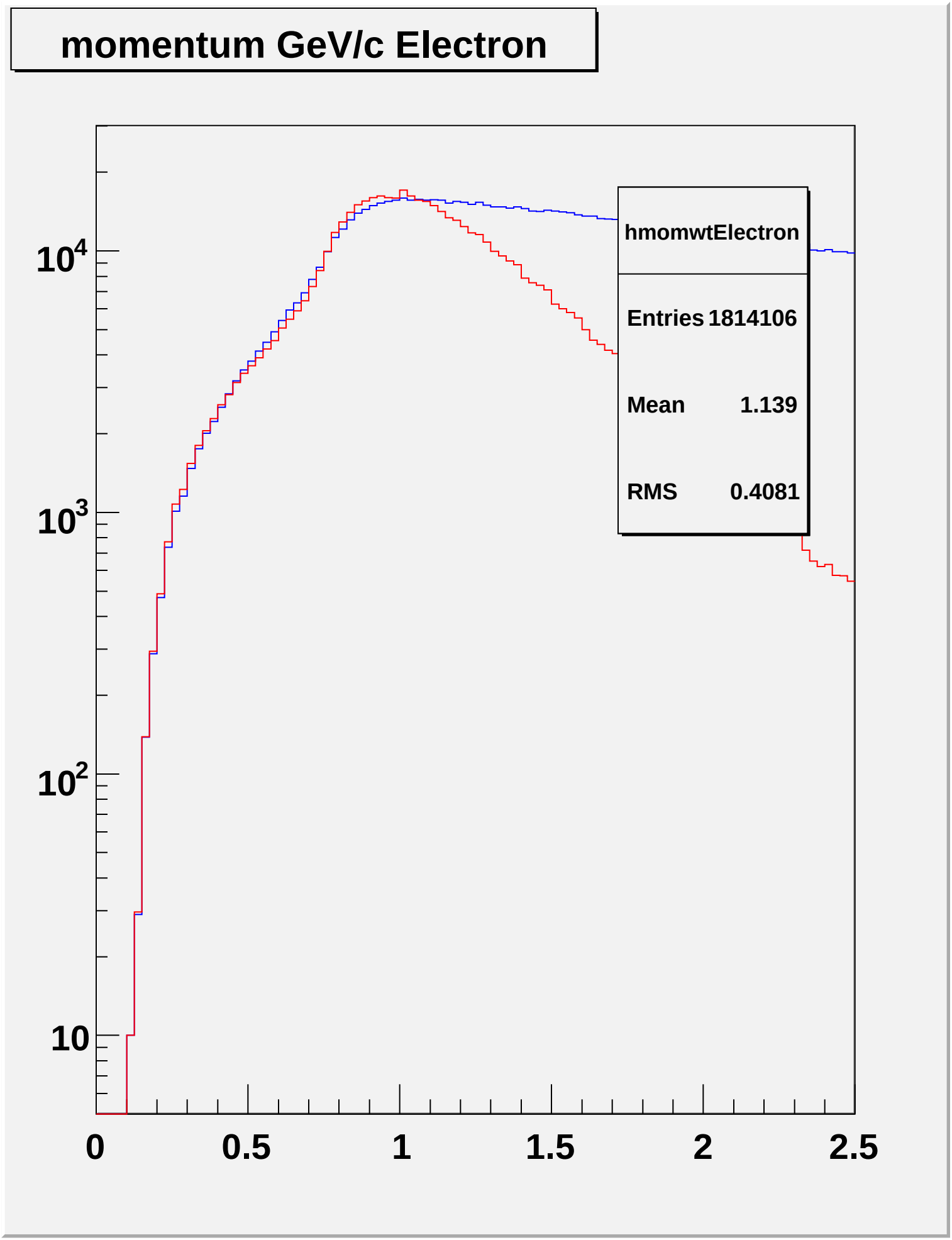

TOF time(ns) vs momentum GeV/c nocuts unweighted
htmeasnocuts
Entries 1814106
Mean x 1.489
Mean y 19.93
RMS x 0.5398
RMS y 2.707
30
25
20
15
10
5
0
0
0.5
1
1.5
2
2.5
0
20
40
60
80
100
120
140
160
180


TOF time(ns) vs momentum GeV/c nocuts weighted
htmeasnocutswt
Entries 7256424
Mean x 1.489
Mean y 19.93
RMS x 0.5396
RMS y 2.7
30
25
20
15
10
5
0
0
0.5
1
1.5
2
2.5
0
200
400
600
800
1000
1200
1400
1600
1800

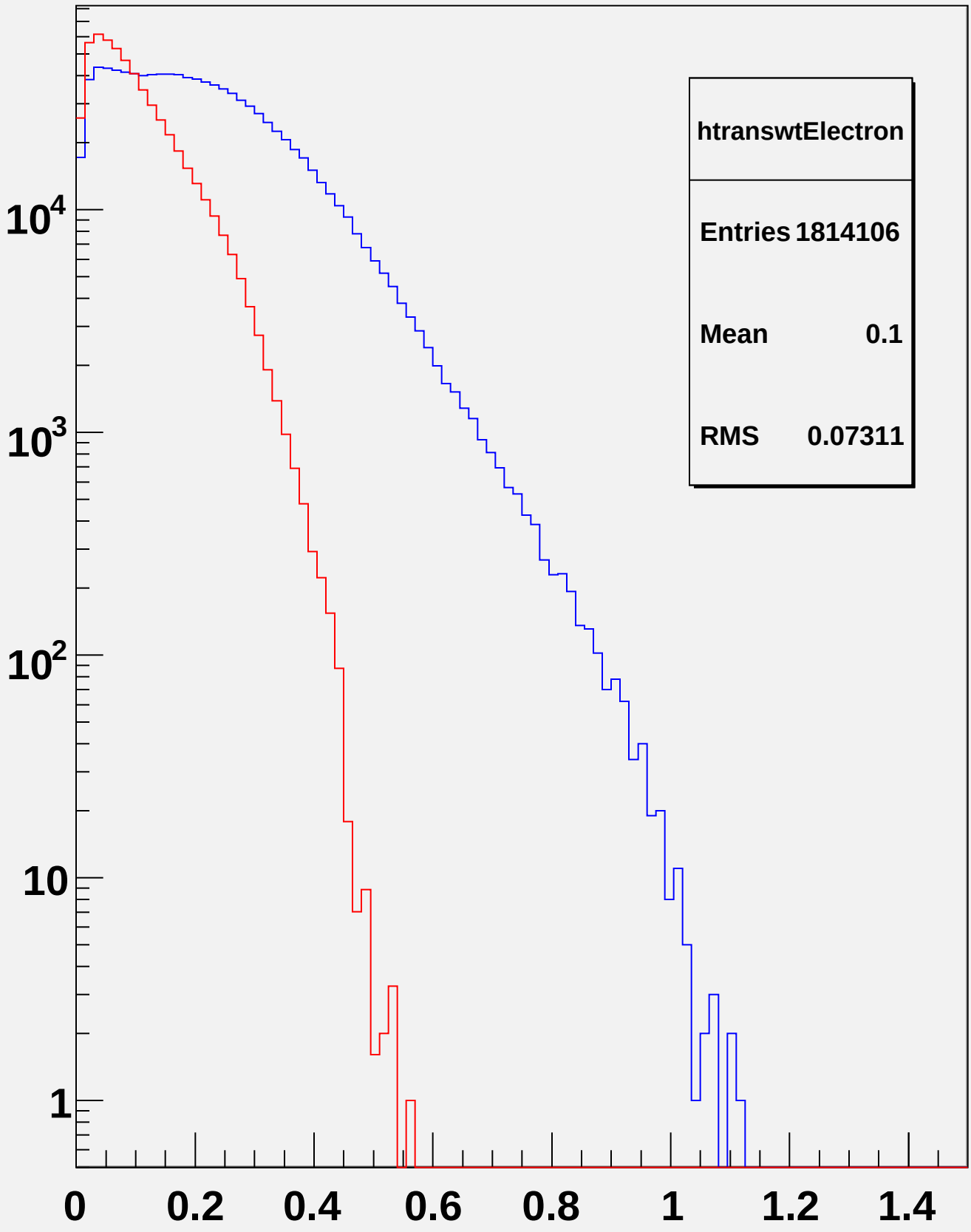

m2 unweighted
hm2nocuts
Entries 1814106
Mean -0.05861
RMS 0.5522
10^5
10^4
10^3
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5

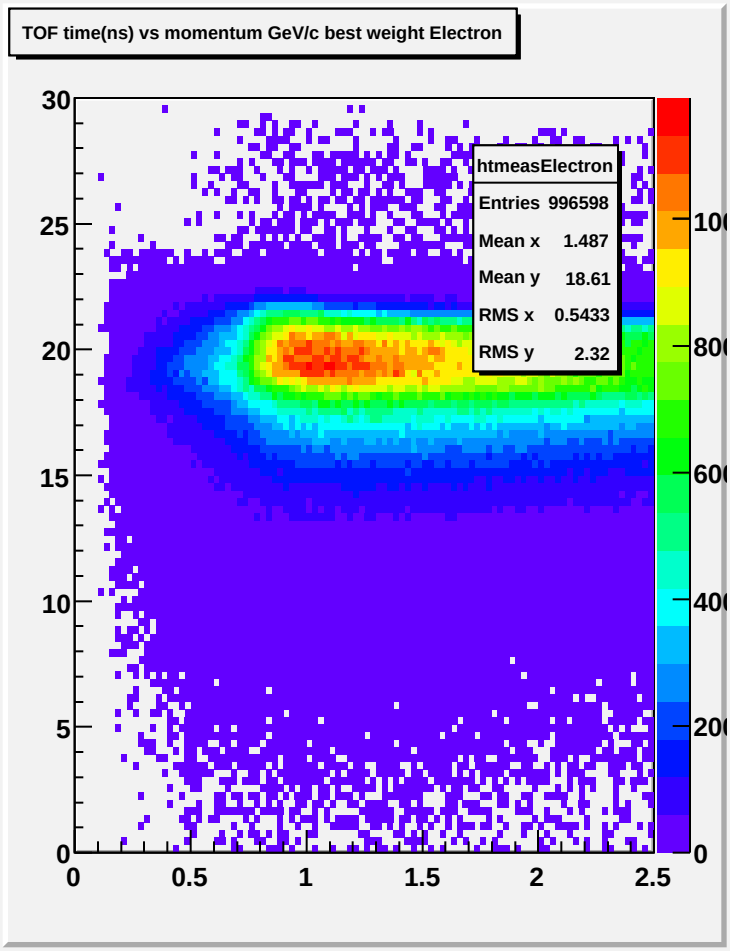
m2 weighted

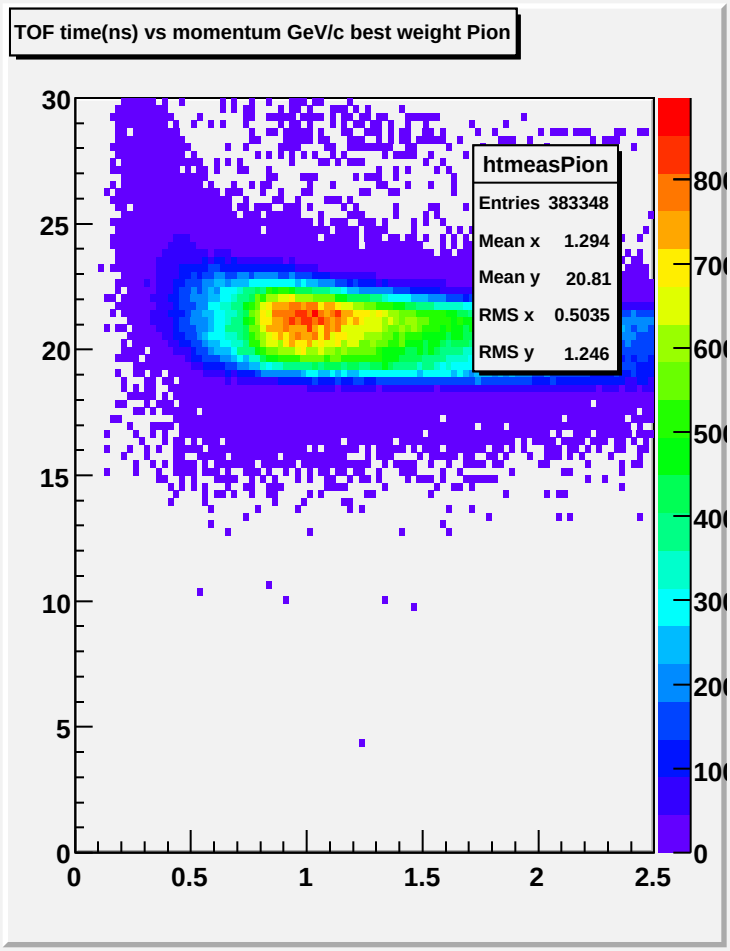

hm2nocutswt
Entries 7256424
Mean -0.05874
RMS 0.5518
10^5
10^4
10^3
-2.5
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
2.5

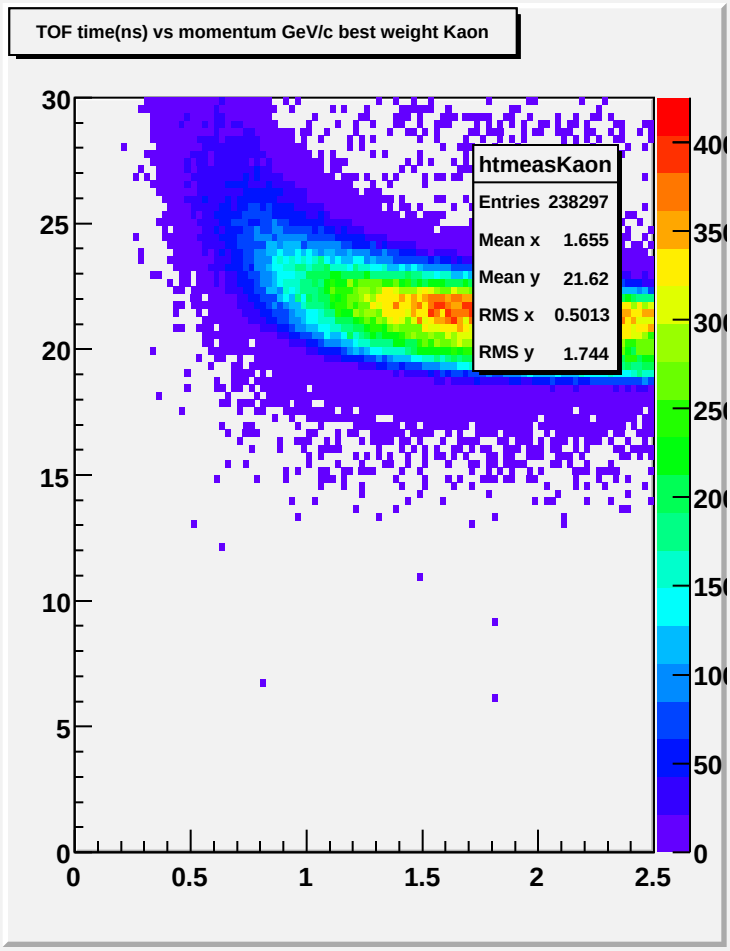

momentum GeV/c Electron
hmomwtElectron
Entries 1814106
Mean 1.139
RMS 0.4081
10^4
10^3
10^2
10
0
0.5
1
1.5
2
2.5

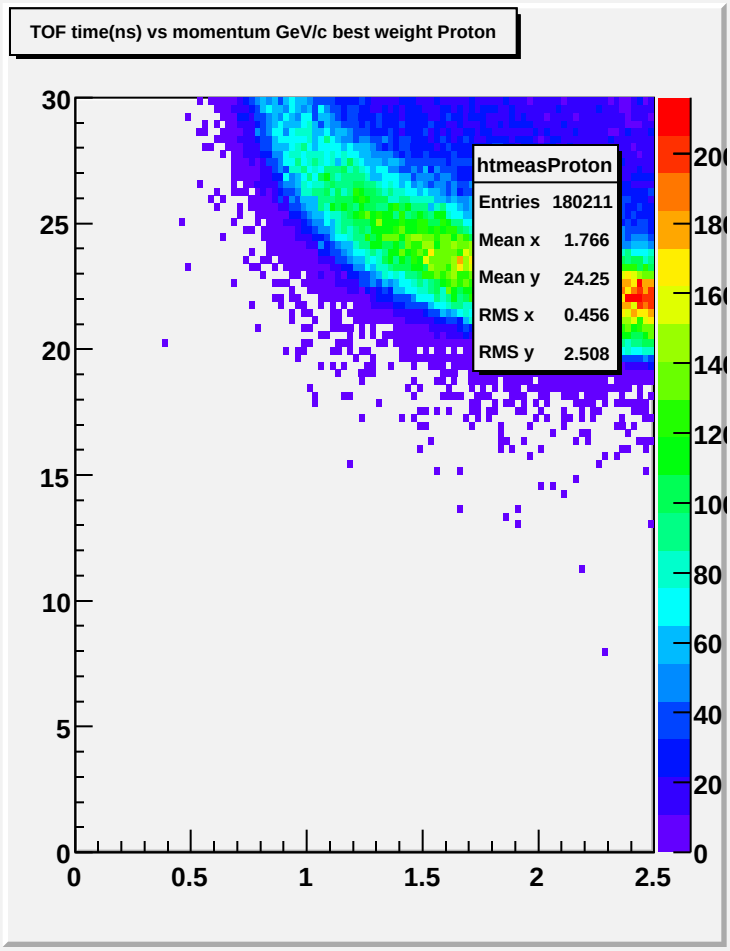
Transverse momentum GeV/c Electron

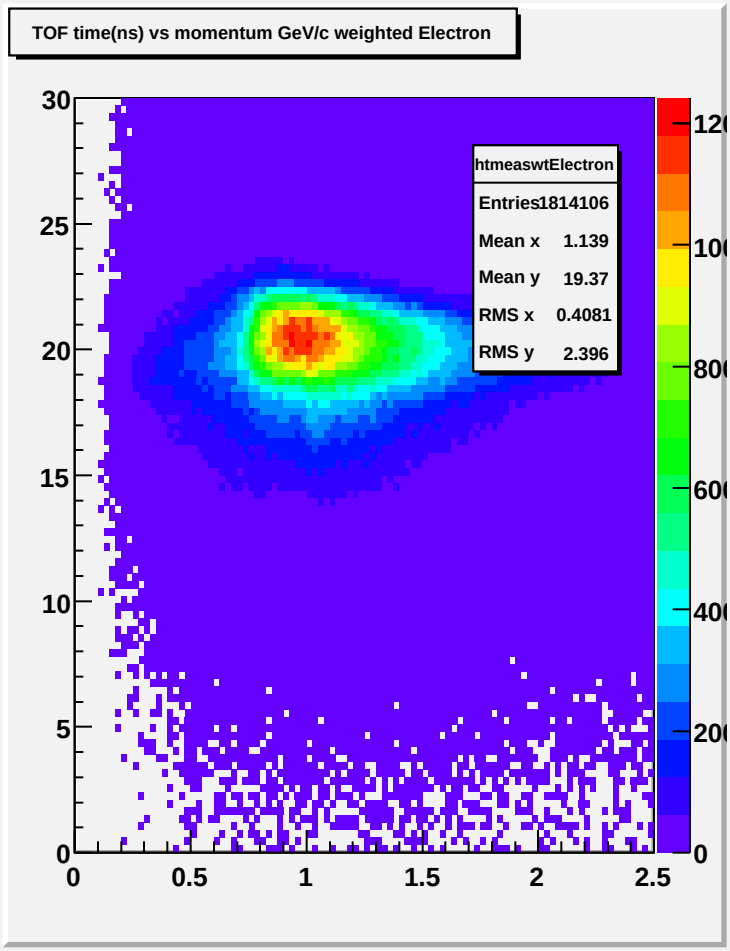


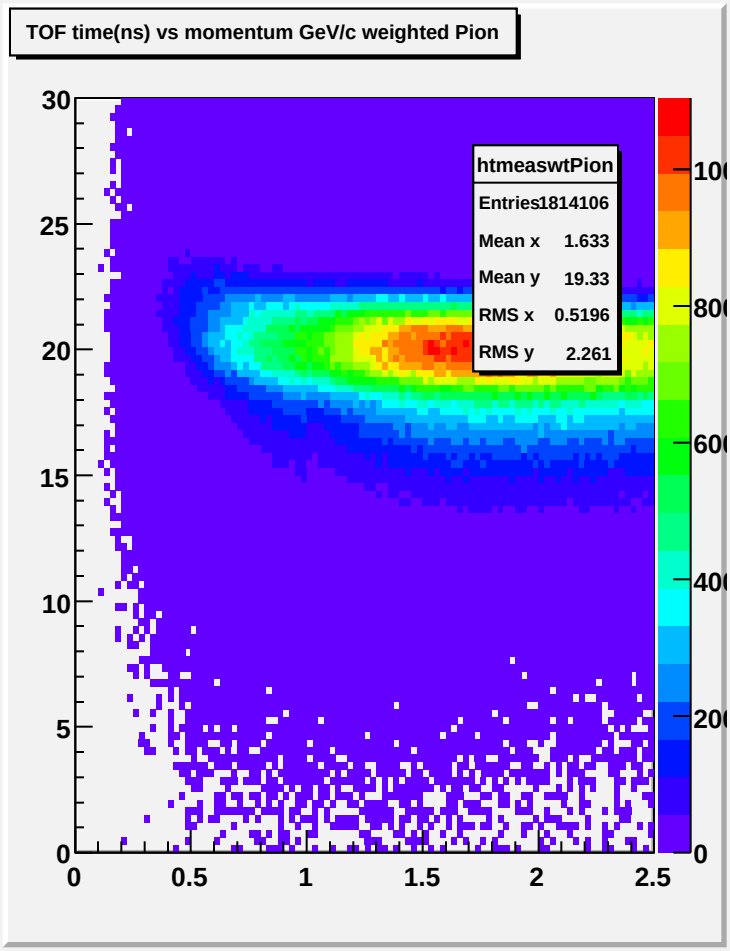

TOF time(ns) vs momentum GeV/c best weight Electron
htmeasElectron
Entries 996598
Mean x 1.487
Mean y 18.61
RMS x 0.5433
RMS y 2.32

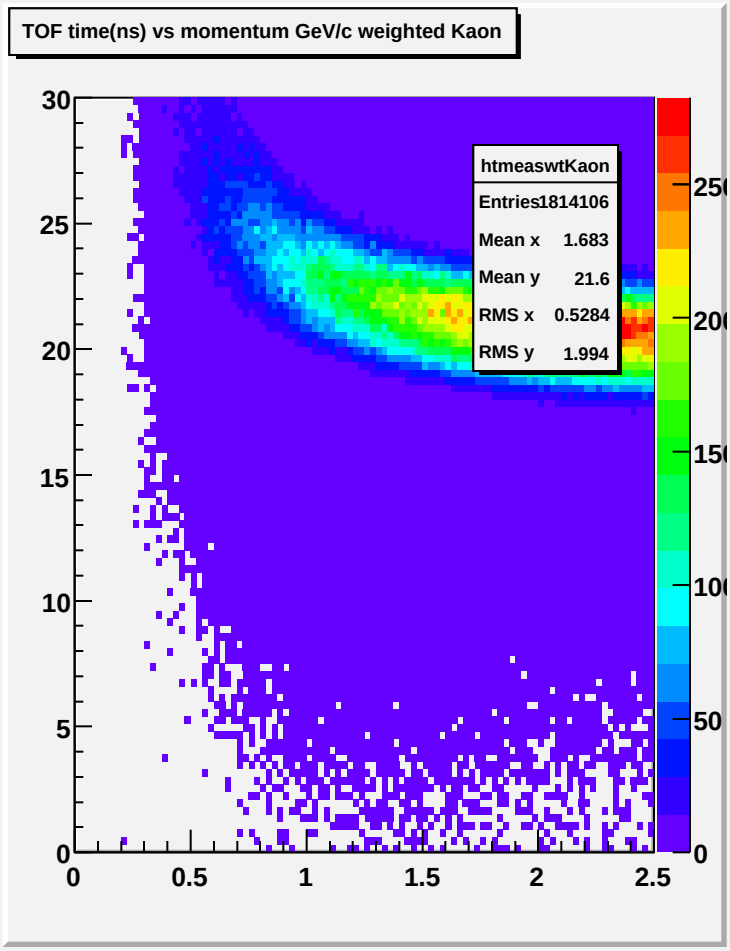

TOF time(ns) vs momentum GeV/c best weight Pion
htmeasPion
Entries 383348
Mean x 1.294
Mean y 20.81
RMS x 0.5035
RMS y 1.246

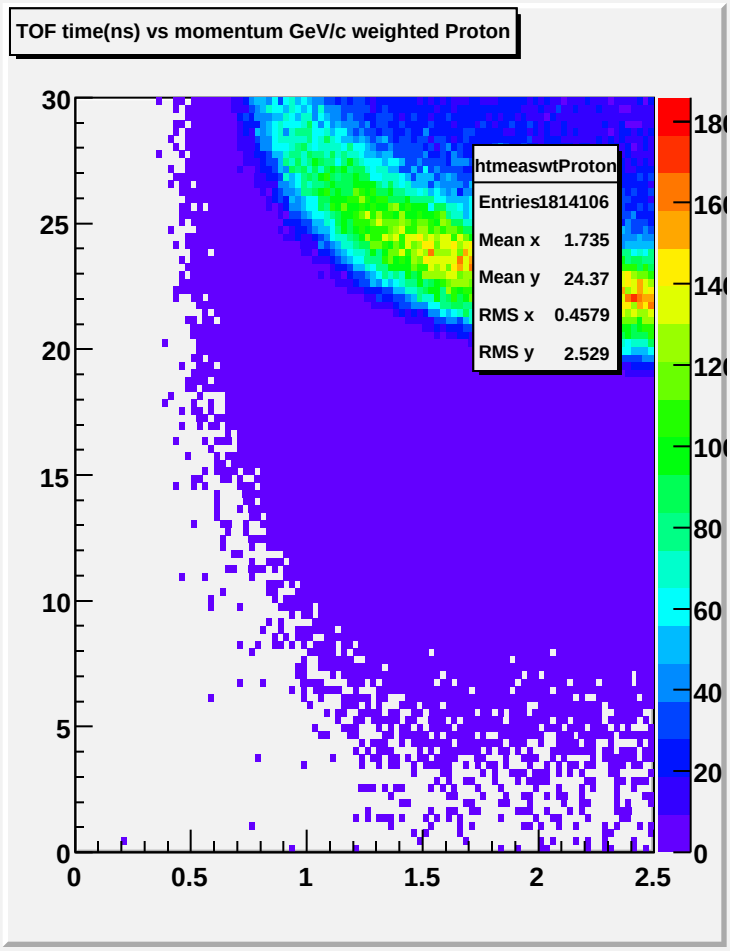

TOF time(ns) vs momentum GeV/c best weight Kaon
htmeasKaon
Entries 238297
Mean x 1.655
Mean y 21.62
RMS x 0.5013
RMS y 1.744

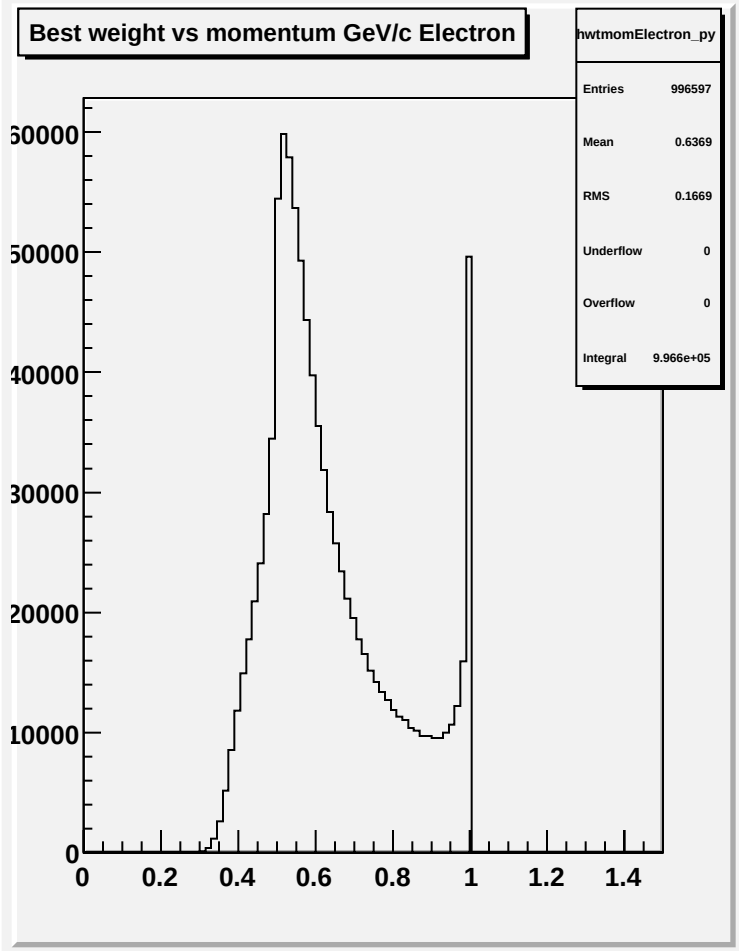

TOF time(ns) vs momentum GeV/c best weight Proton
htmeasProton
Entries 180211
Mean x 1.766
Mean y 24.25
RMS x 0.456
RMS y 2.508

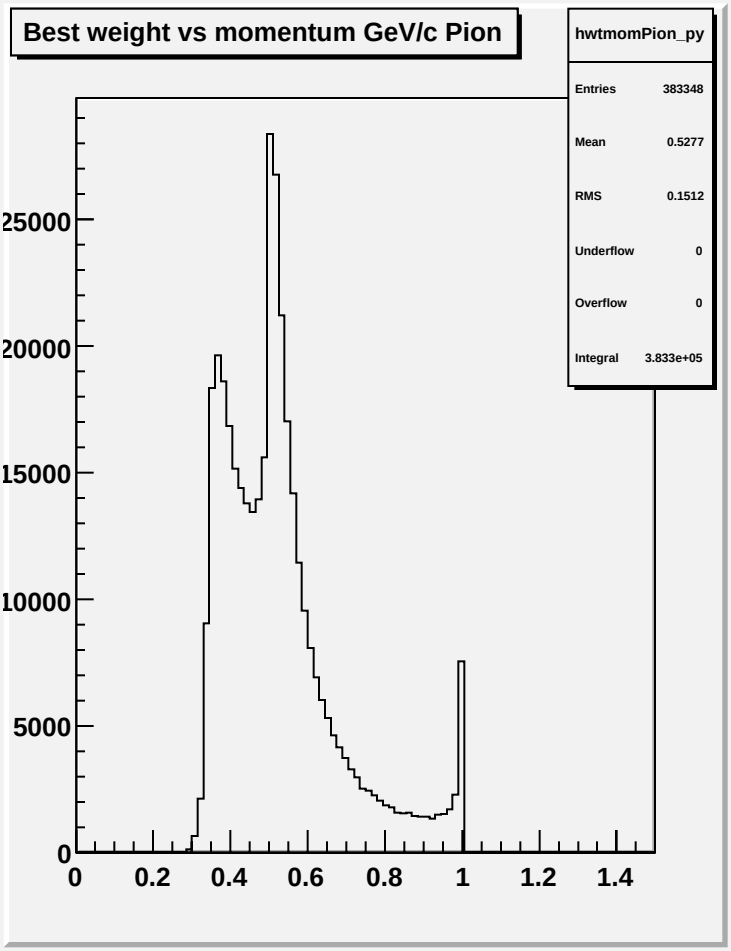

TOF time(ns) vs momentum GeV/c weighted Electron
htmeaswtElectron
Entries1814106
Mean x 1.139
Mean y 19.37
RMS x 0.4081
RMS y 2.396

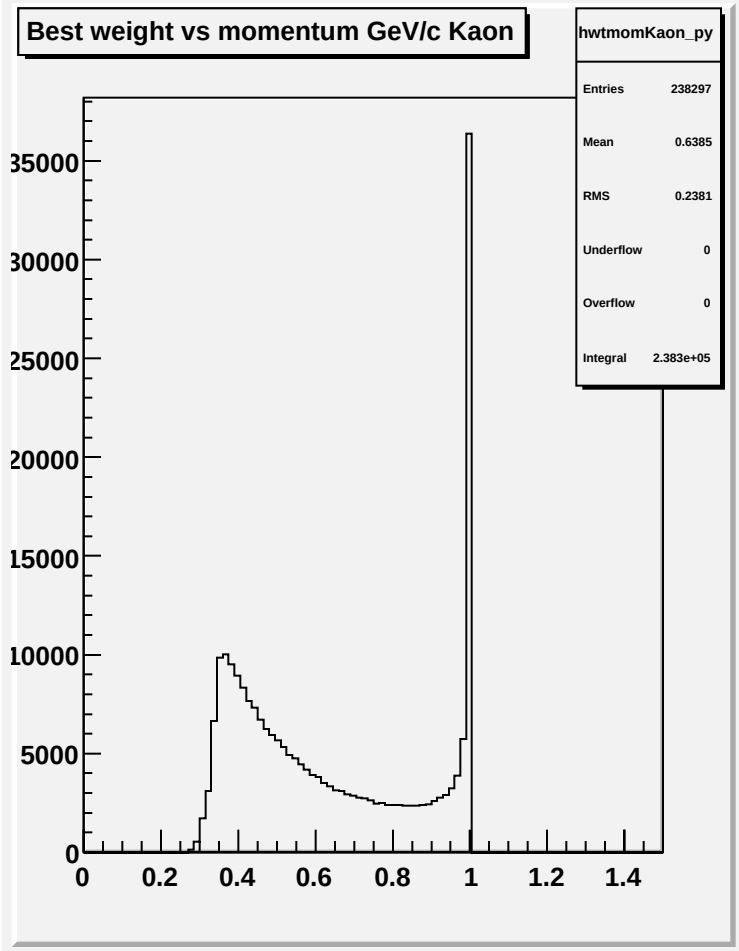

TOF time(ns) vs momentum GeV/c weighted Pion
htmeaswtPion
Entries1814106
Mean x 1.633
Mean y 19.33
RMS x 0.5196
RMS y 2.261

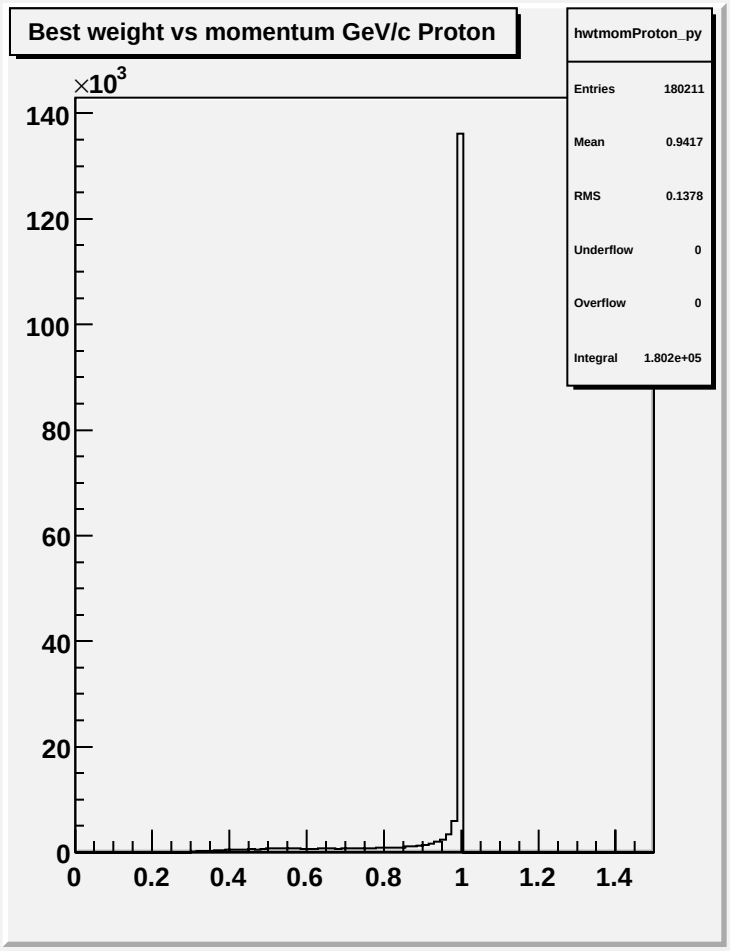

TOF time(ns) vs momentum GeV/c weighted Kaon
htmeaswtKaon
Entries1814106
Mean x 1.683
Mean y 21.6
RMS x 0.5284
RMS y 1.994

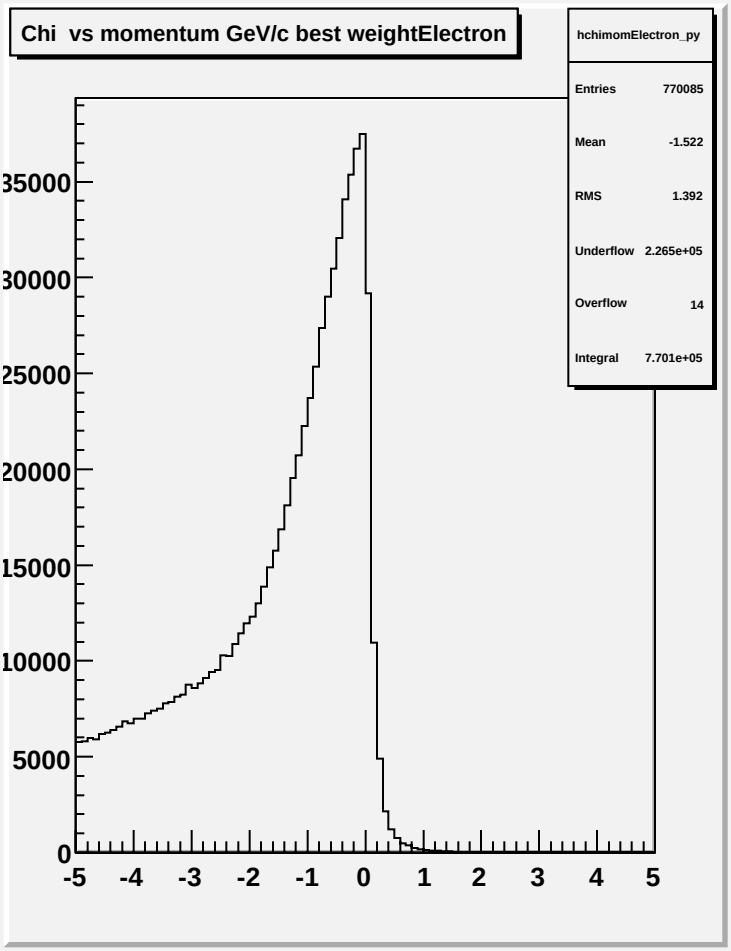

TOF time(ns) vs momentum GeV/c weighted Proton
htmeaswtProton
Entries1814106
Mean x 1.735
Mean y 24.37
RMS x 0.4579
RMS y 2.529

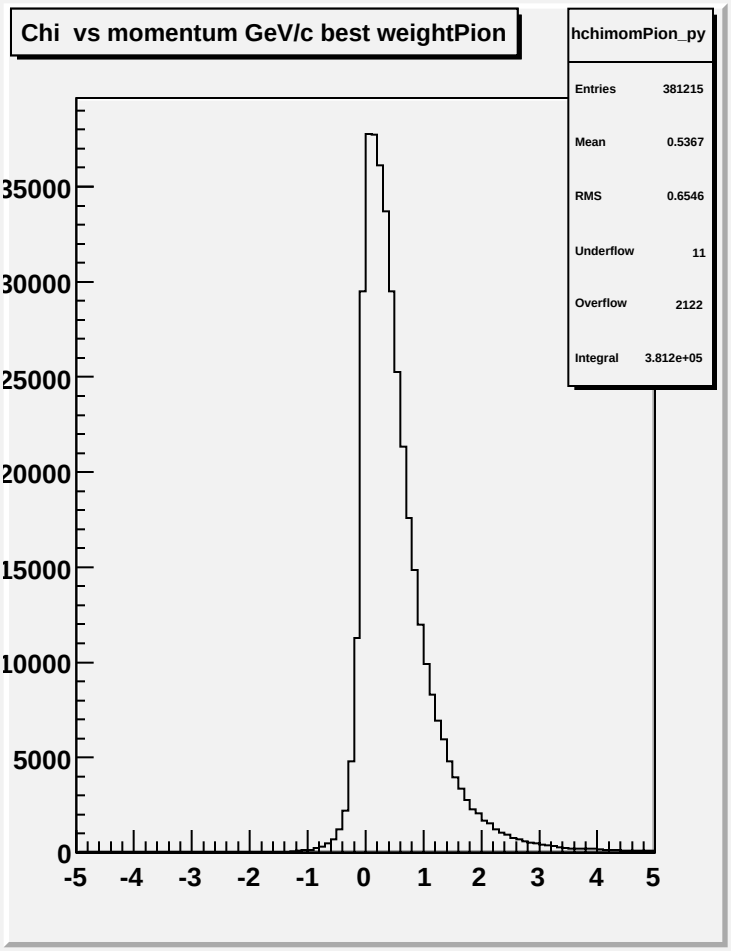

Best weight vs momentum GeV/c Electron
hwtmomElectron_py
Entries 996597
Mean 0.6369
RMS 0.1669
Underflow 0
Overflow 0
Integral 9.966e+05

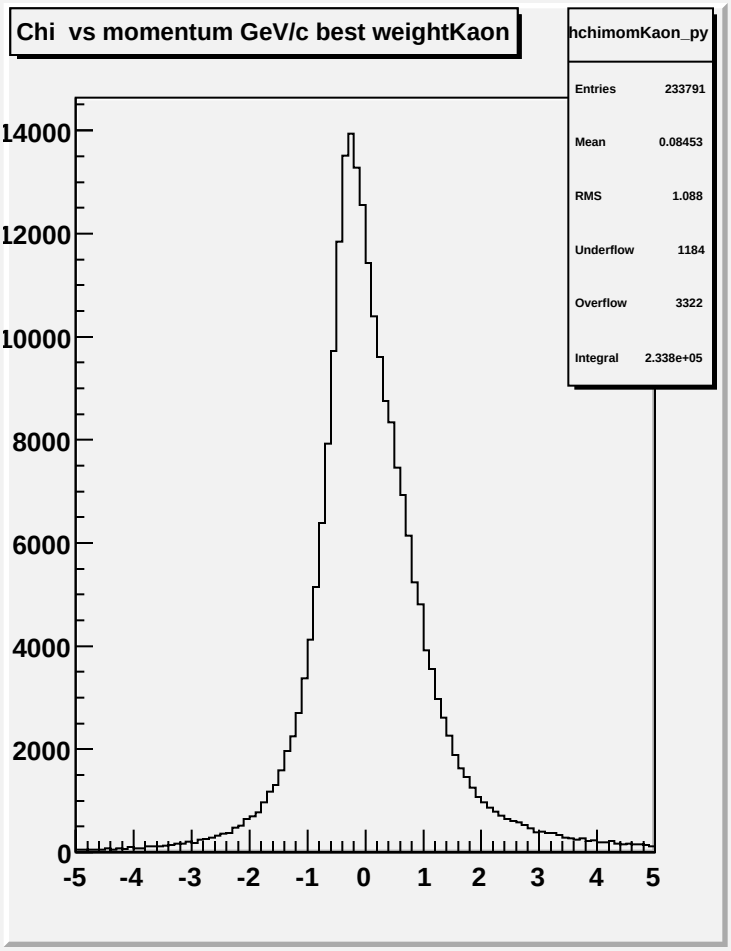

Best weight vs momentum GeV/c Pion
hwtmomPion_py
Entries 383348
Mean 0.5277
RMS 0.1512
Underflow 0
Overflow 0
Integral 3.833e+05


Best weight vs momentum GeV/c Kaon
hwtmomKaon_py
Entries 238297
Mean 0.6385
RMS 0.2381
Underflow 0
Overflow 0
Integral 2.383e+05


Best weight vs momentum GeV/c Proton
hwtmomProton_py
Entries 180211
Mean 0.9417
RMS 0.1378
Underflow 0
Overflow 0
Integral 1.802e+05


Chi vs momentum GeV/c best weightElectron
hchimomElectron_py
Entries 770085
Mean -1.522
RMS 1.392
Underflow 2.265e+05
Overflow 14
Integral 7.701e+05
35000
30000
25000
20000
15000
10000
5000
0
-5 -4 -3 -2 -1 0 1 2 3 4 5


Chi vs momentum GeV/c best weightPion
hchimomPion_py
Entries 381215
Mean 0.5367
RMS 0.6546
Underflow 11
Overflow 2122
Integral 3.812e+05
35000
30000
25000
20000
15000
10000
5000
0
-5 -4 -3 -2 -1 0 1 2 3 4 5


Chi vs momentum GeV/c best weightKaon
hchimomKaon_py
Entries 233791
Mean 0.08453
RMS 1.088
Underflow 1184
Overflow 3322
Integral 2.338e+05
14000
12000
10000
8000
6000
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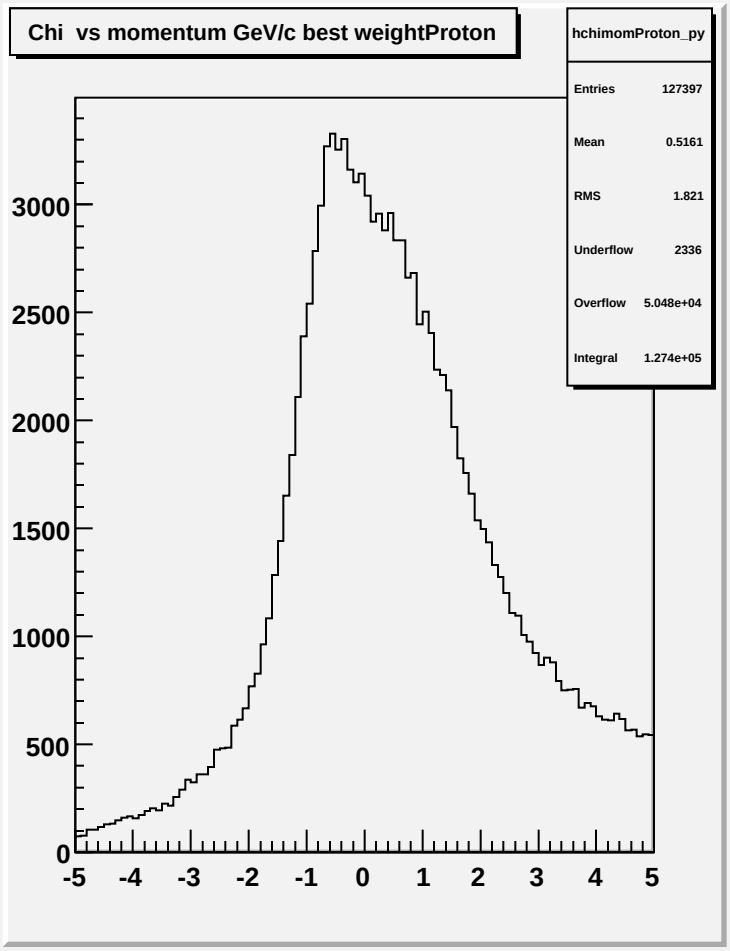
2000
0
-5 -4 -3 -2 -1 0 1 2 3 4 5


Chi vs momentum GeV/c best weightProton
hchimomProton_py
Entries 127397
Mean 0.5161
RMS 1.821
Underflow 2336
Overflow 5.048e+04
Integral 1.274e+05
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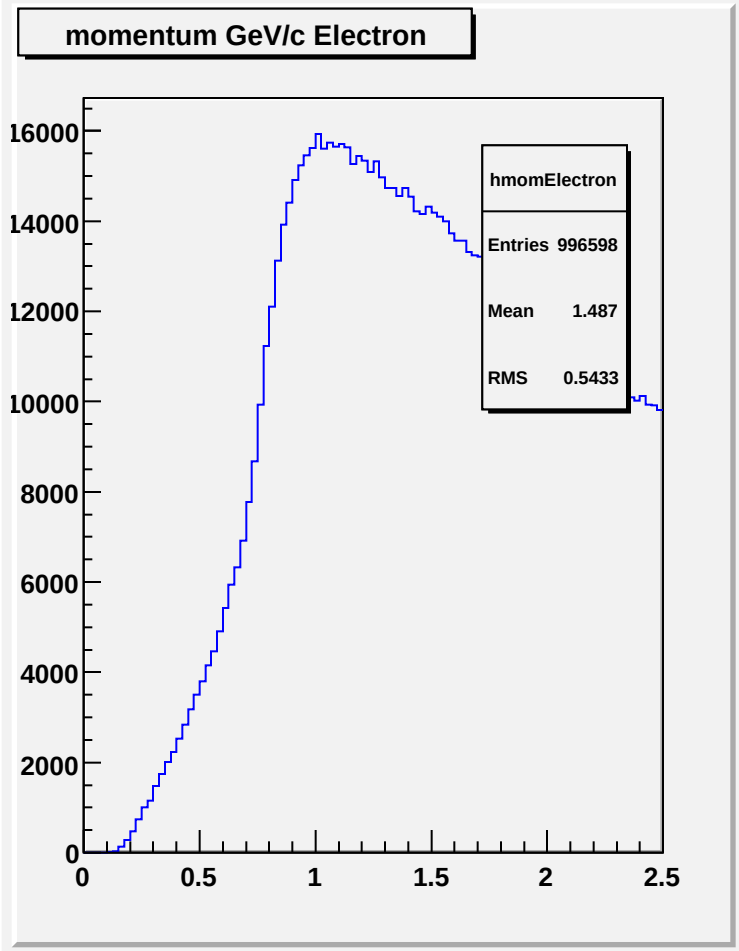
2500
2000
1500
1000
500
0
-5 -4 -3 -2 -1 0 1 2 3 4 5


momentum GeV/c Electron
hmomElectron
Entries 996598
Mean 1.487
RMS 0.5433
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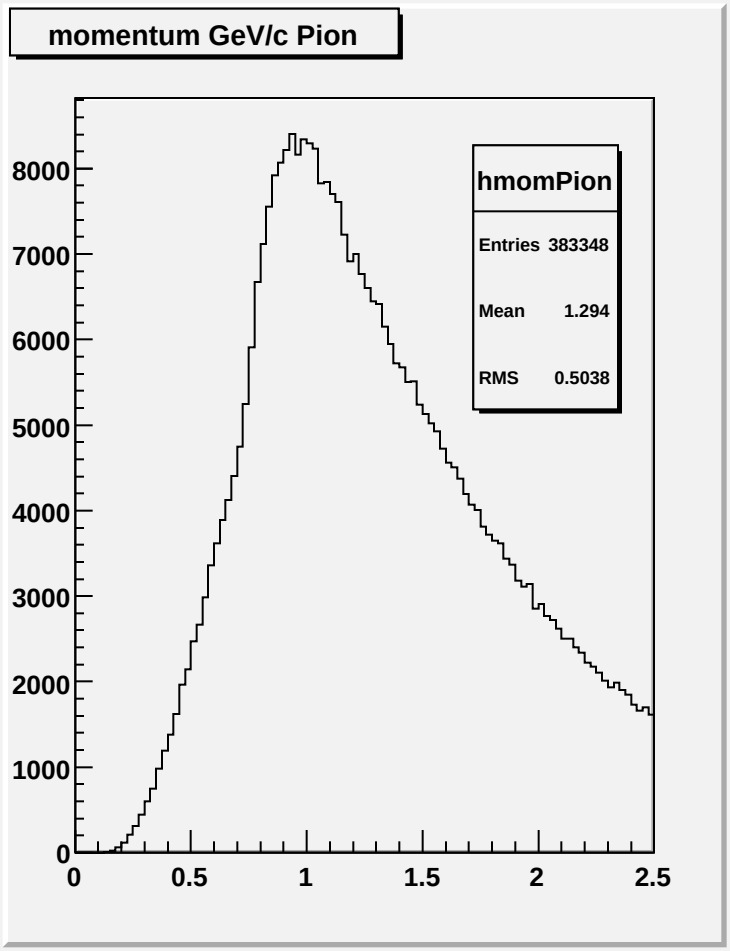
14000
12000
10000
8000
6000
4000
2000
0
0
0.5
1
1.5
2
2.5


momentum GeV/c Pion
hmomPion
Entries 383348
Mean 1.294
RMS 0.5038
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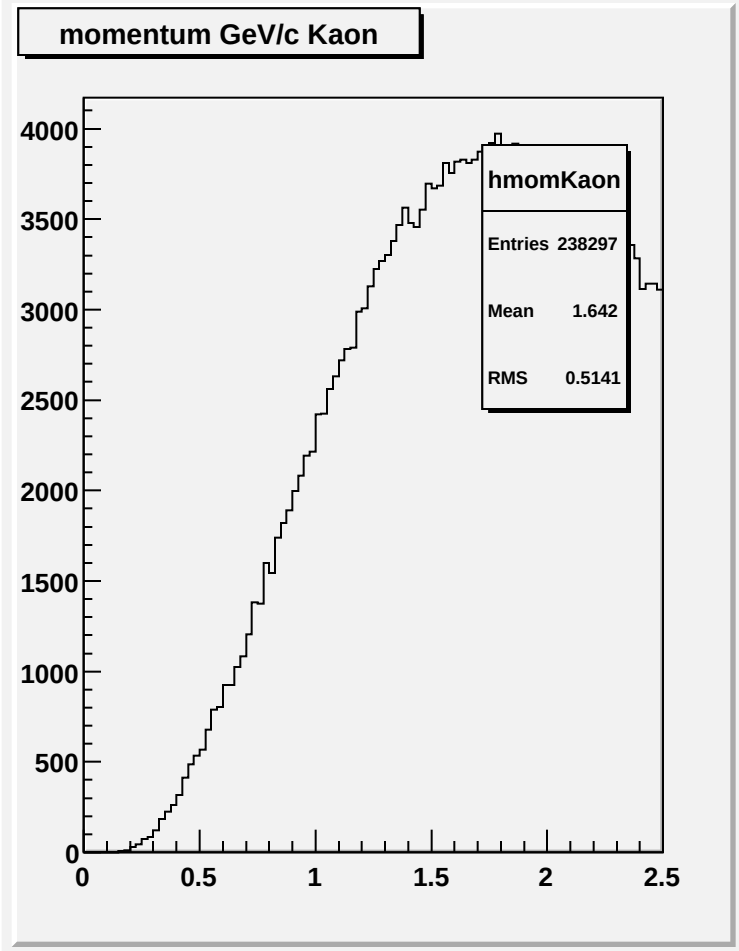
7000
6000
5000
4000
3000
2000
1000
0
0
0.5
1
1.5
2
2.5


momentum GeV/c Kaon
hmomKaon
Entries 238297
Mean 1.642
RMS 0.5141
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3500
3000
2500
2000
1500
1000
500
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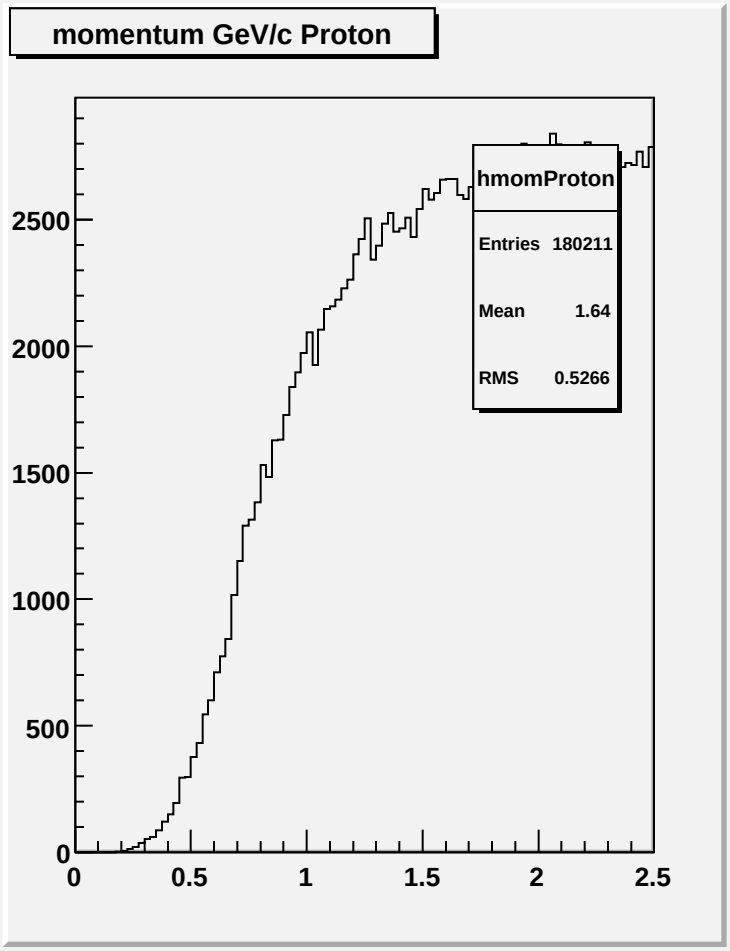
0
0.5
1
1.5
2
2.5


momentum GeV/c Proton
hmomProton
Entries 180211
Mean 1.64
RMS 0.5266
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2000
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1000
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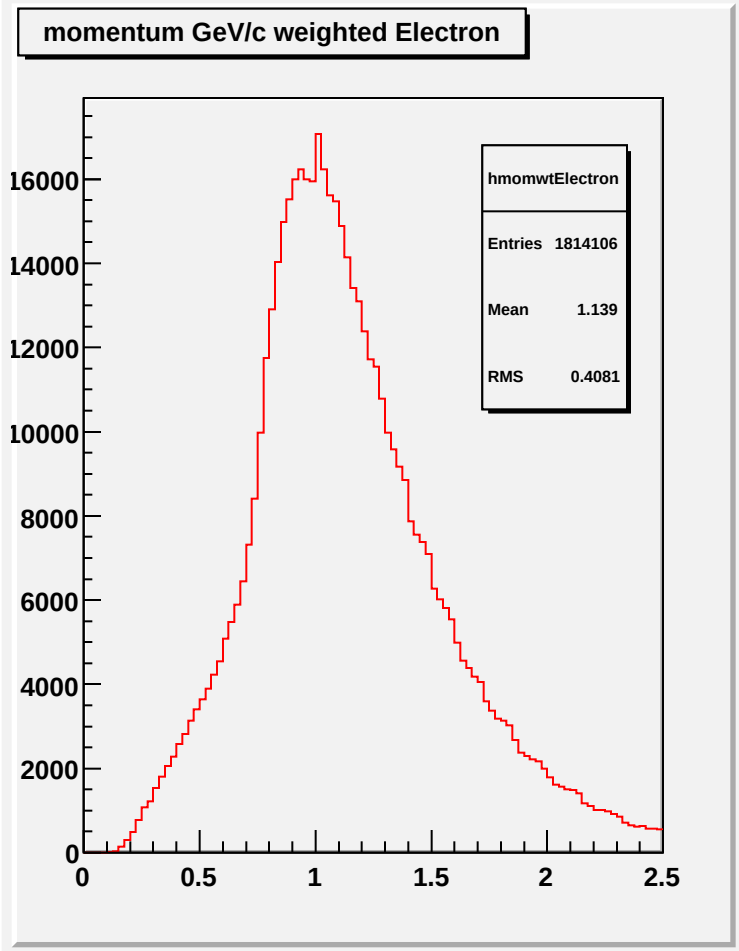
0
0.5
1
1.5
2
2.5


momentum GeV/c weighted Electron
hmomwtElectron
Entries 1814106
Mean 1.139
RMS 0.4081
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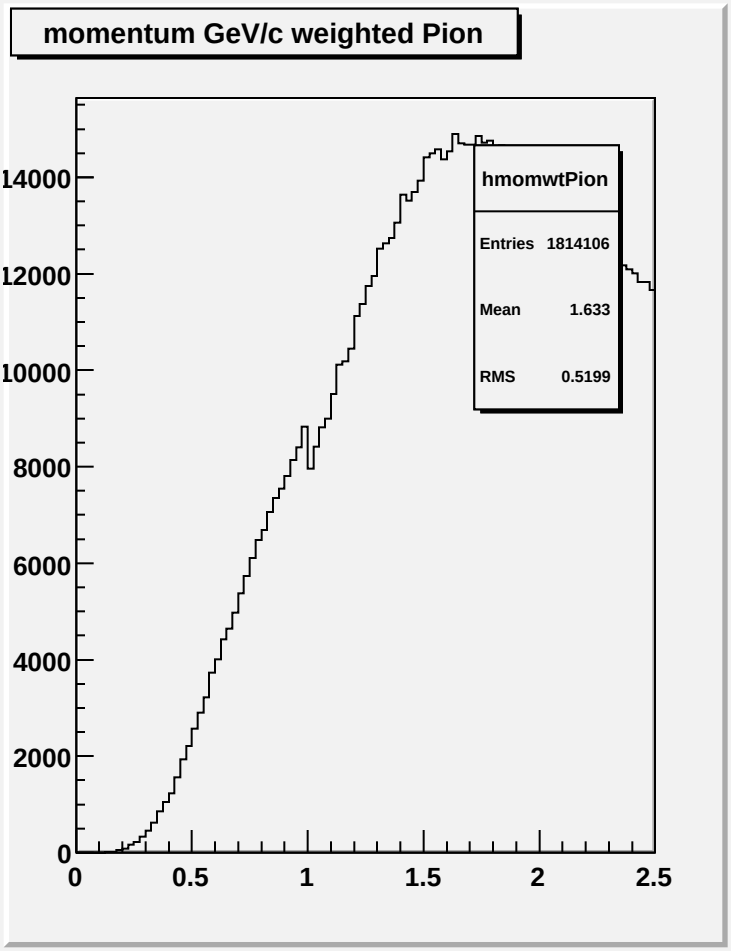
14000
12000
10000
8000
6000
4000
2000
0
0
0.5
1
1.5
2
2.5


momentum GeV/c weighted Pion
hmomwtPion
Entries 1814106
Mean 1.633
RMS 0.5199
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12000
10000
8000
6000
4000
2000
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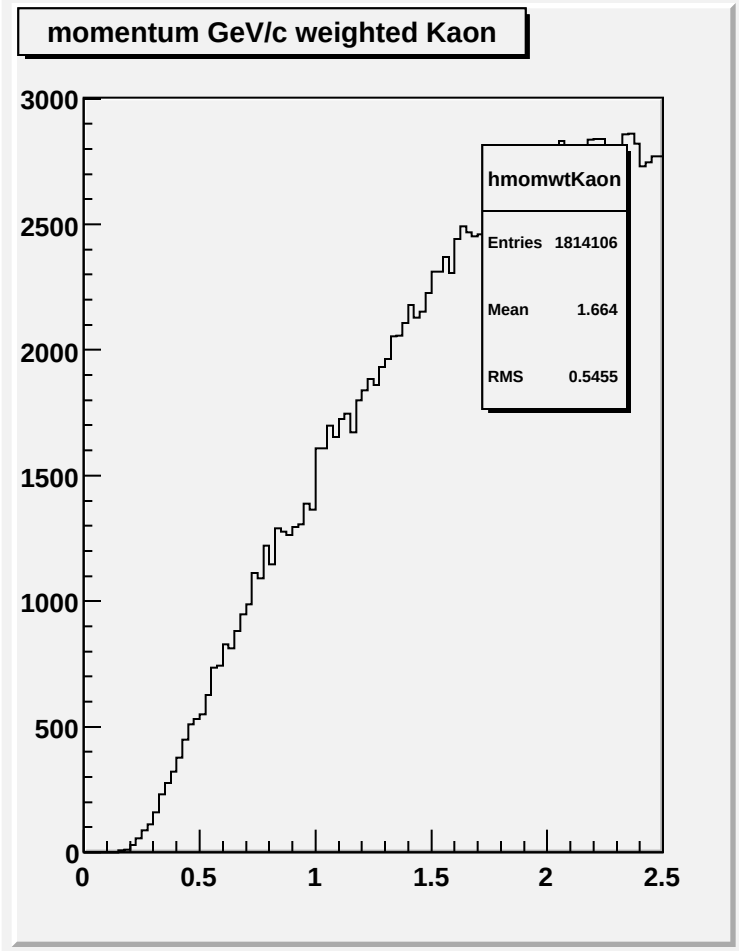
0
0.5
1
1.5
2
2.5


momentum GeV/c weighted Kaon
hmomwtKaon
Entries 1814106
Mean 1.664
RMS 0.5455
3000
2500
2000
1500
1000
500
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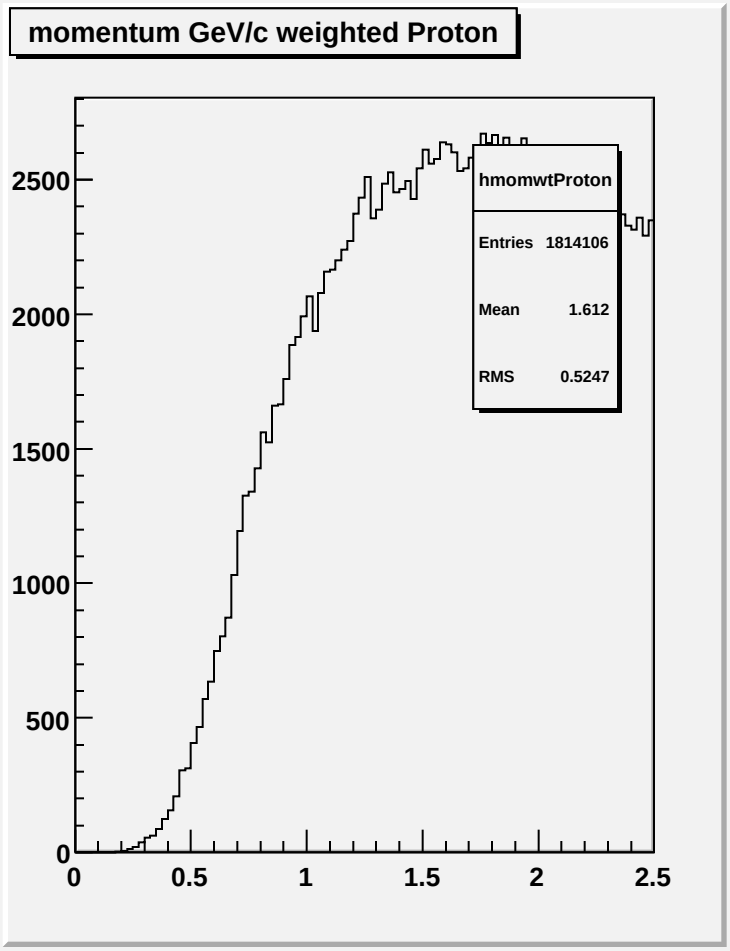
0
0.5
1
1.5
2
2.5


momentum GeV/c weighted Proton
hmomwtProton
Entries 1814106
Mean 1.612
RMS 0.5247
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2000
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1000
500
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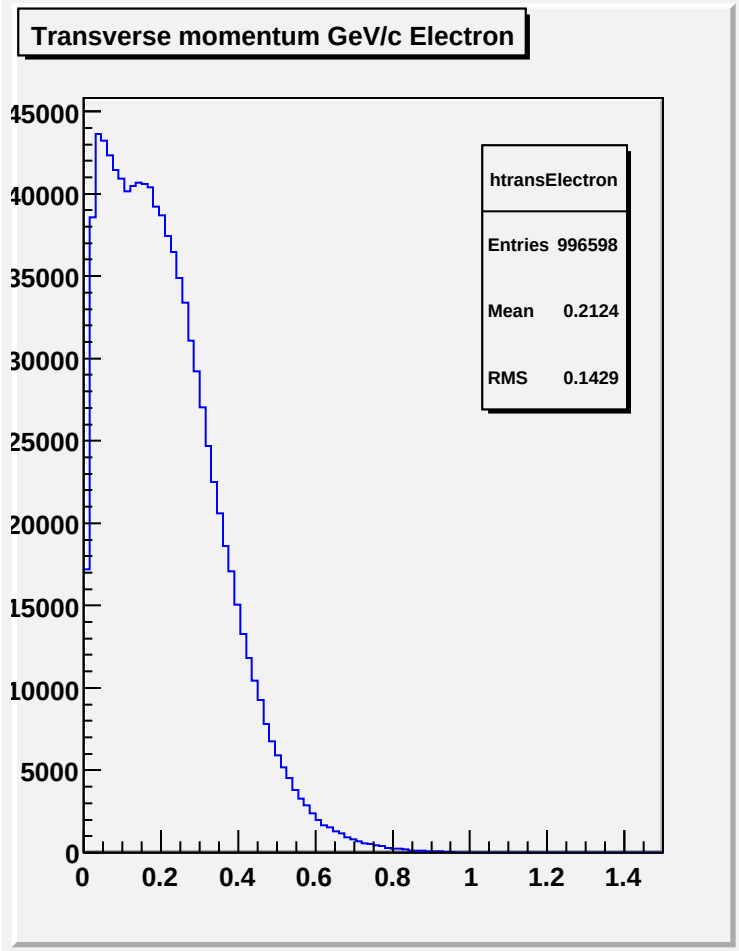
0
0.5
1
1.5
2
2.5


Transverse momentum GeV/c Electron
htransElectron
Entries 996598
Mean 0.2124
RMS 0.1429
45000
40000
35000
30000
25000
20000
15000
10000
5000
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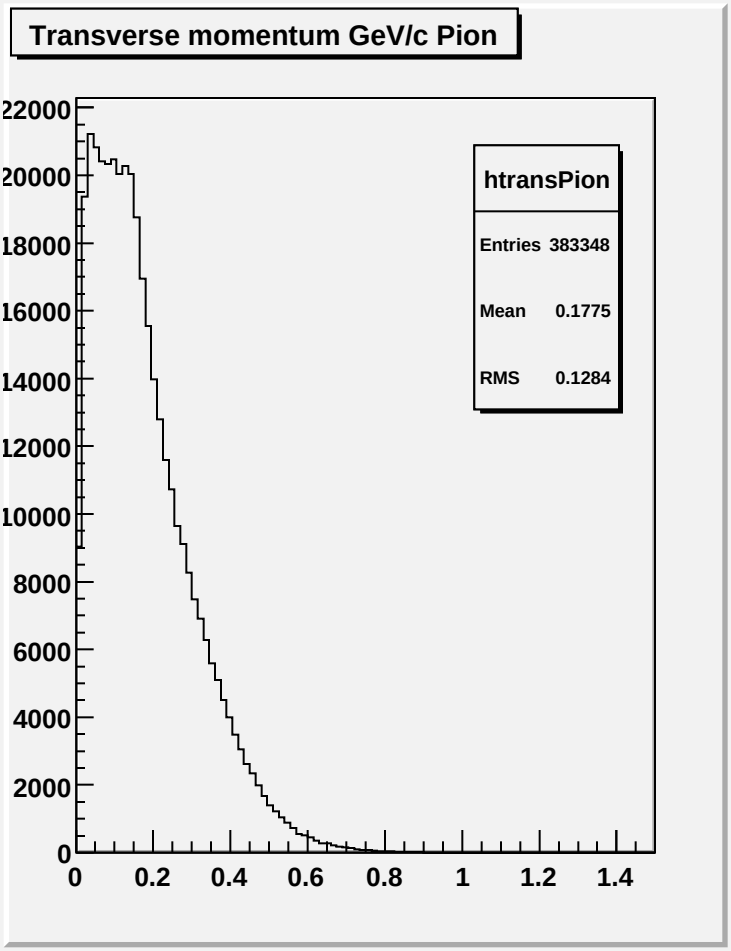
0.2
0.4
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c Pion
htransPion
Entries 383348
Mean 0.1775
RMS 0.1284
22000
20000
18000
16000
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12000
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6000
4000
2000
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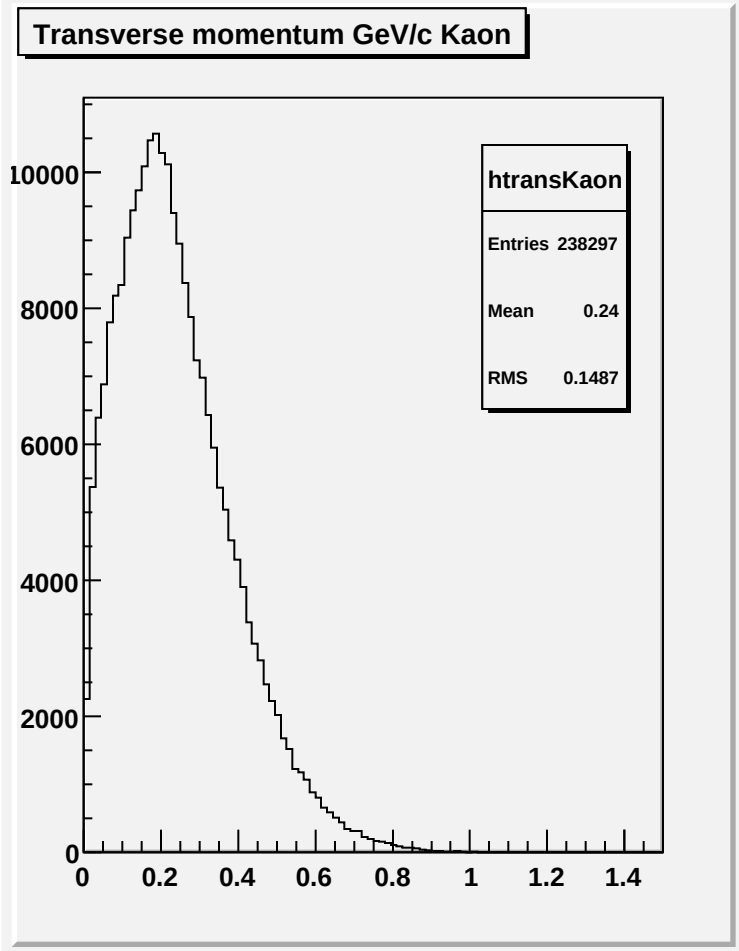
0.4
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c Kaon
htransKaon
Entries 238297
Mean 0.24
RMS 0.1487
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6000
4000
2000
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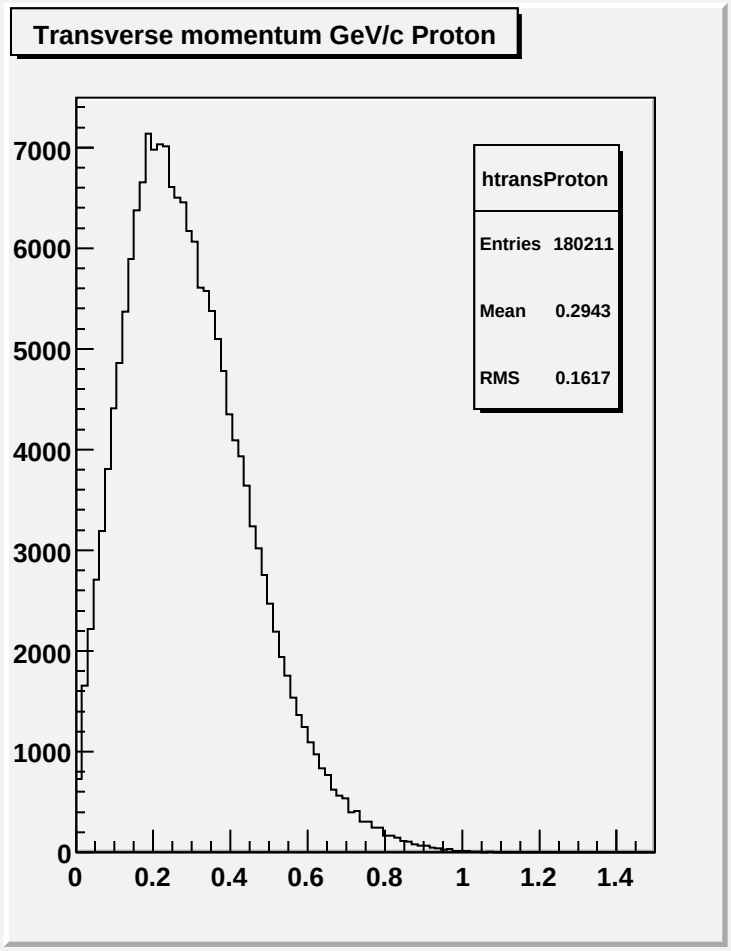
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c Proton
htransProton
Entries 180211
Mean 0.2943
RMS 0.1617
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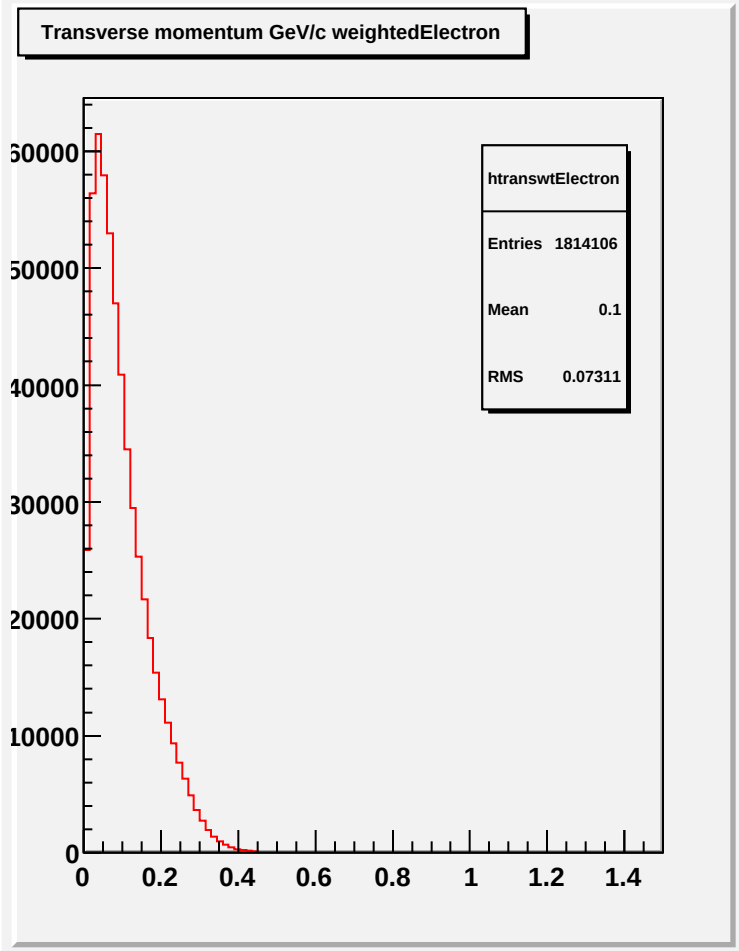
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c weightedElectron
htranswtElectron
Entries 1814106
Mean 0.1
RMS 0.07311
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30000
20000
10000
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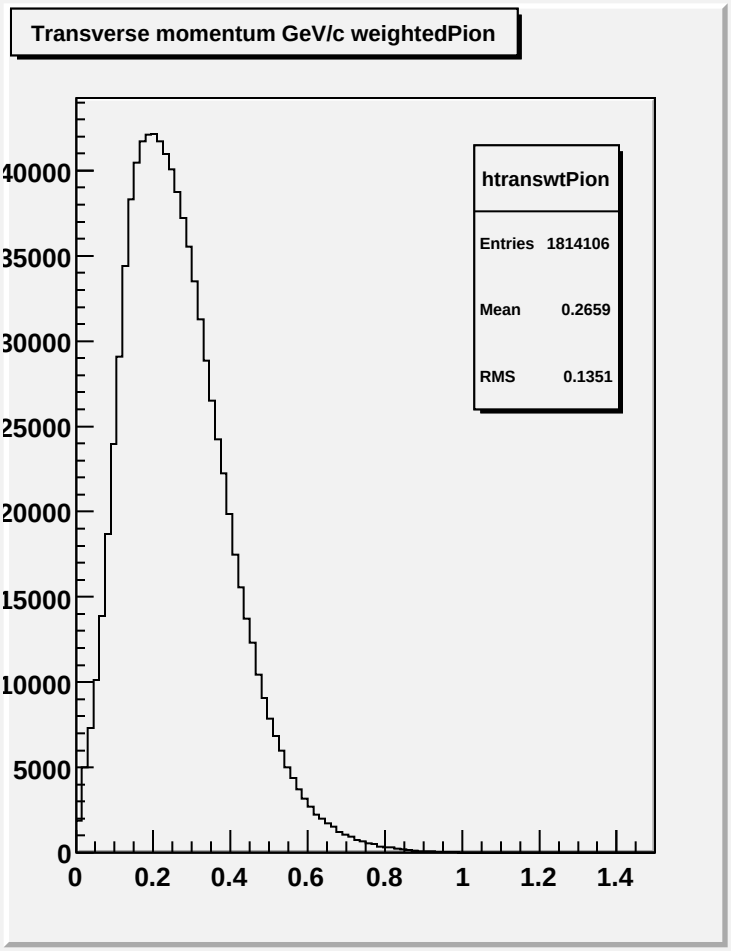
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c weightedPion
htranswtPion
Entries 1814106
Mean 0.2659
RMS 0.1351
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35000
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15000
10000
5000
0
0
0.2
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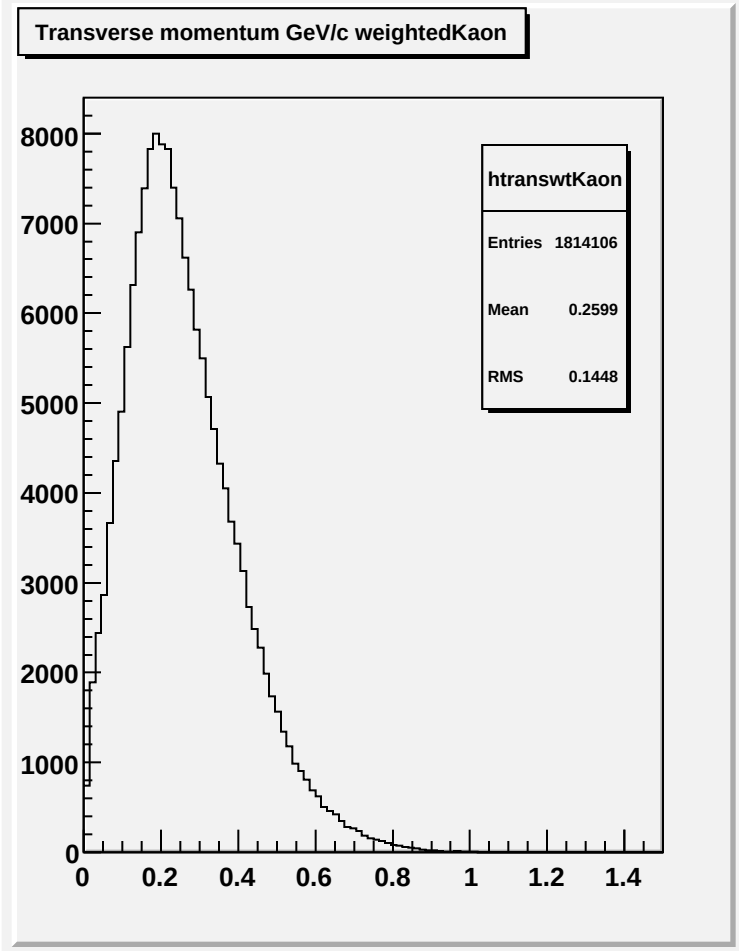
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c weightedKaon
htranswtKaon
Entries 1814106
Mean 0.2599
RMS 0.1448
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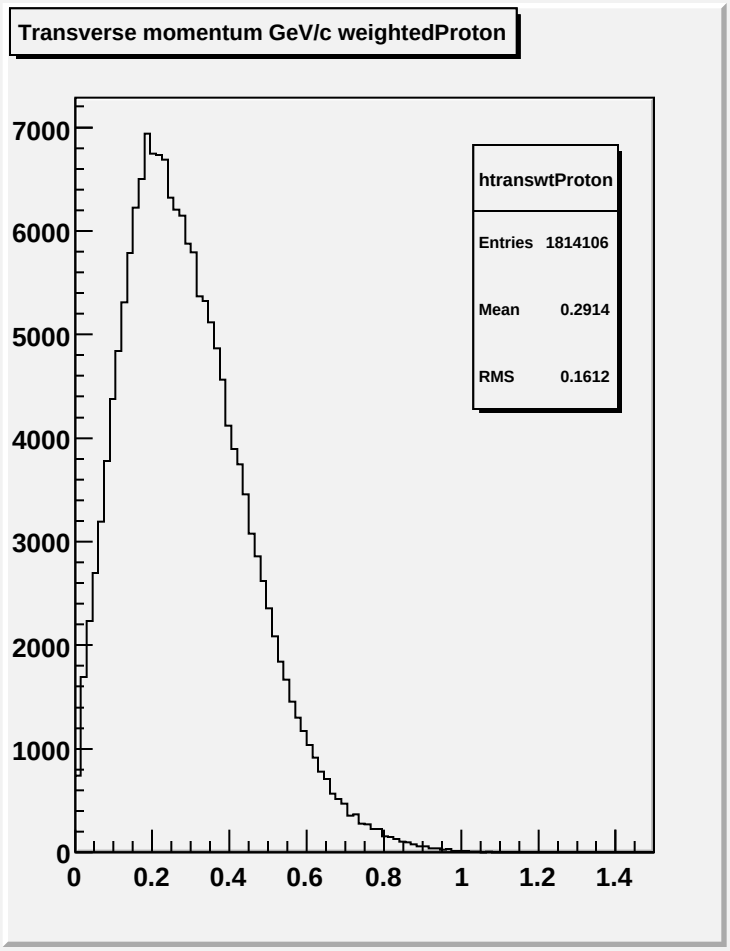
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4


Transverse momentum GeV/c weightedProton
htranswtProton
Entries 1814106
Mean 0.2914
RMS 0.1612
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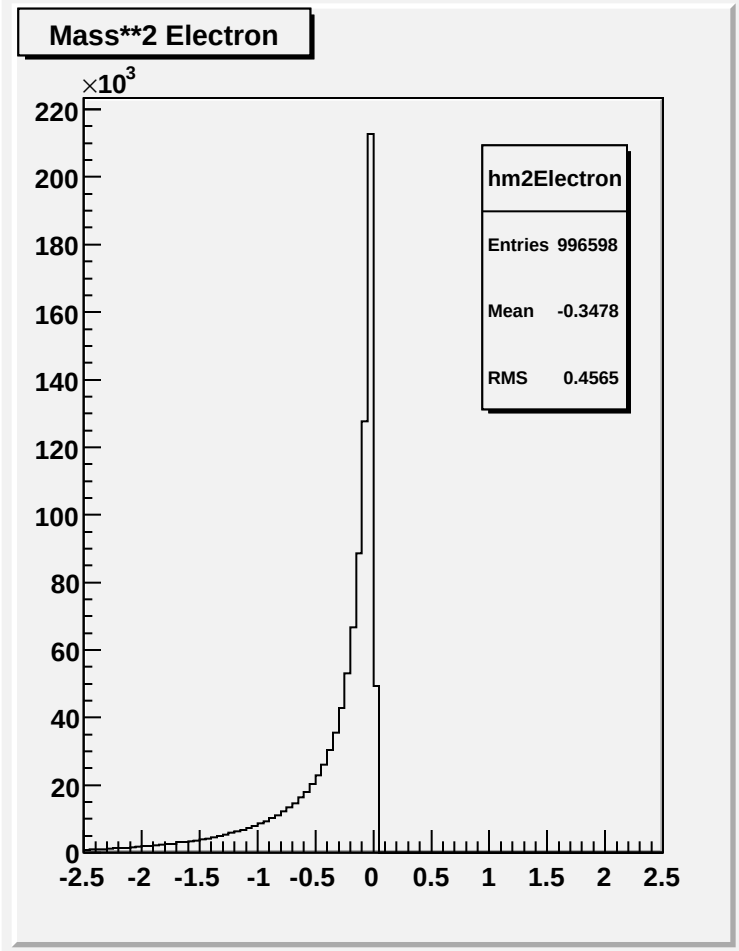
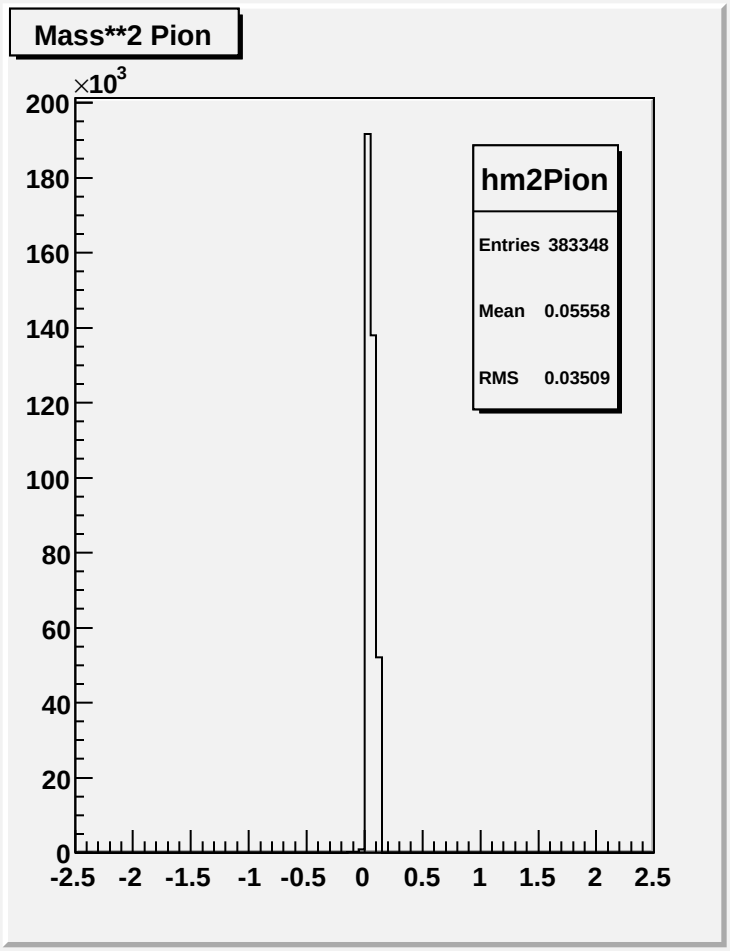
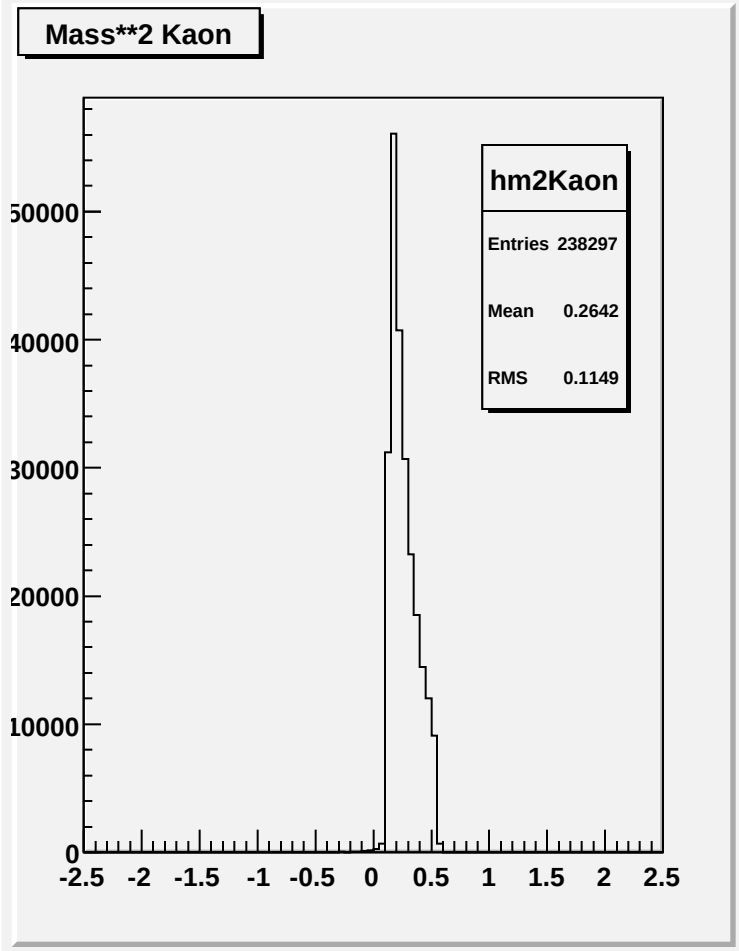
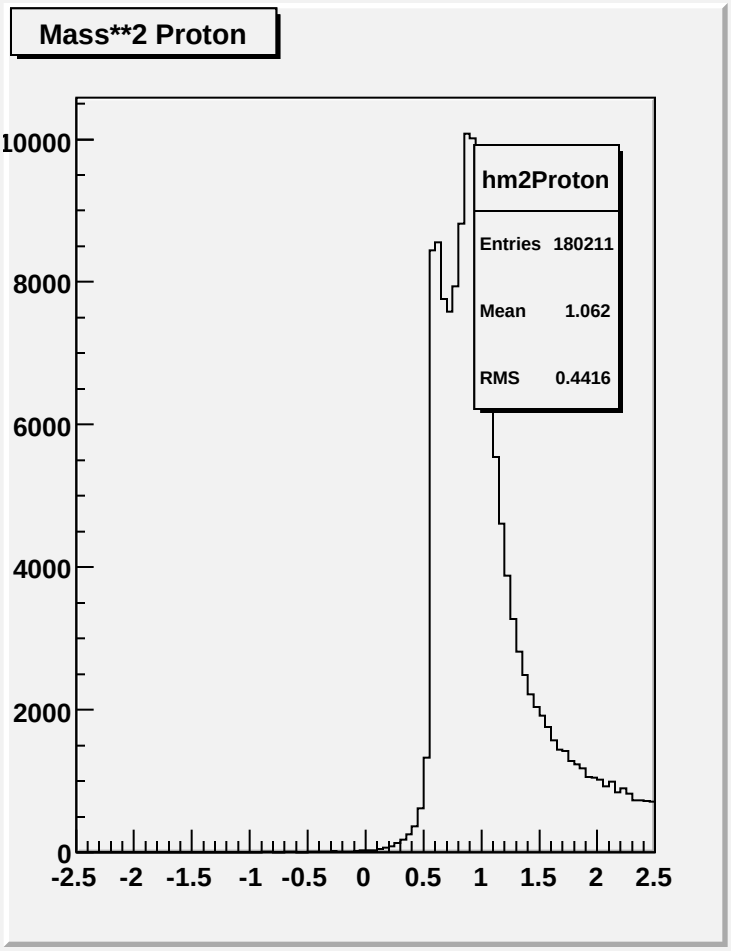
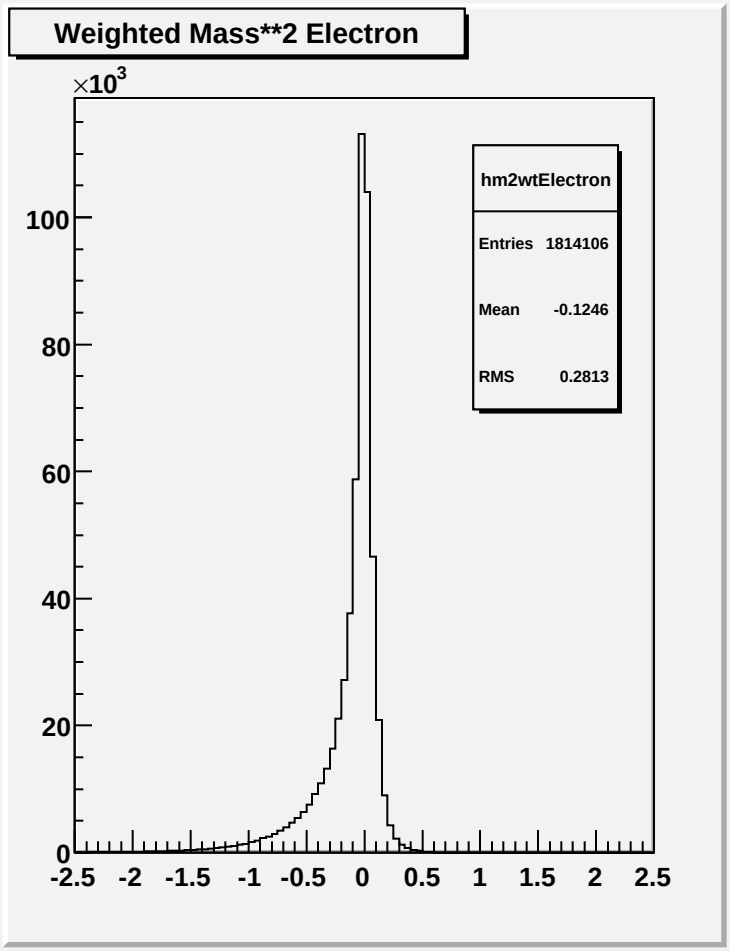
6000
5000
4000
3000
2000
1000
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4

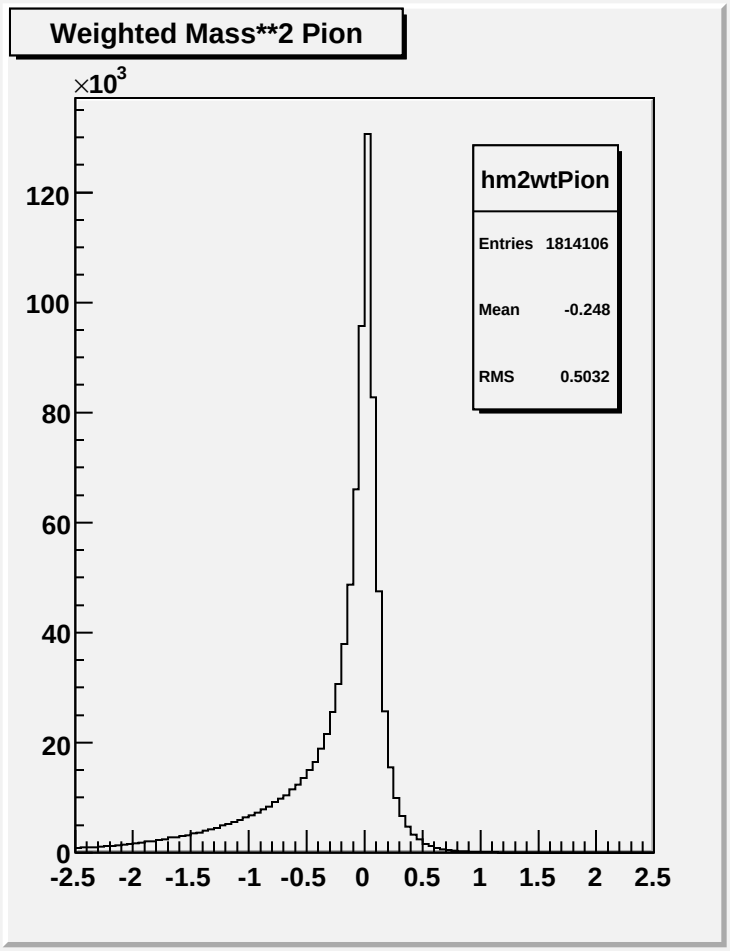

Mass**2 Electron
×10^3
hm2Electron
Entries 996598
Mean -0.3478
RMS 0.4565

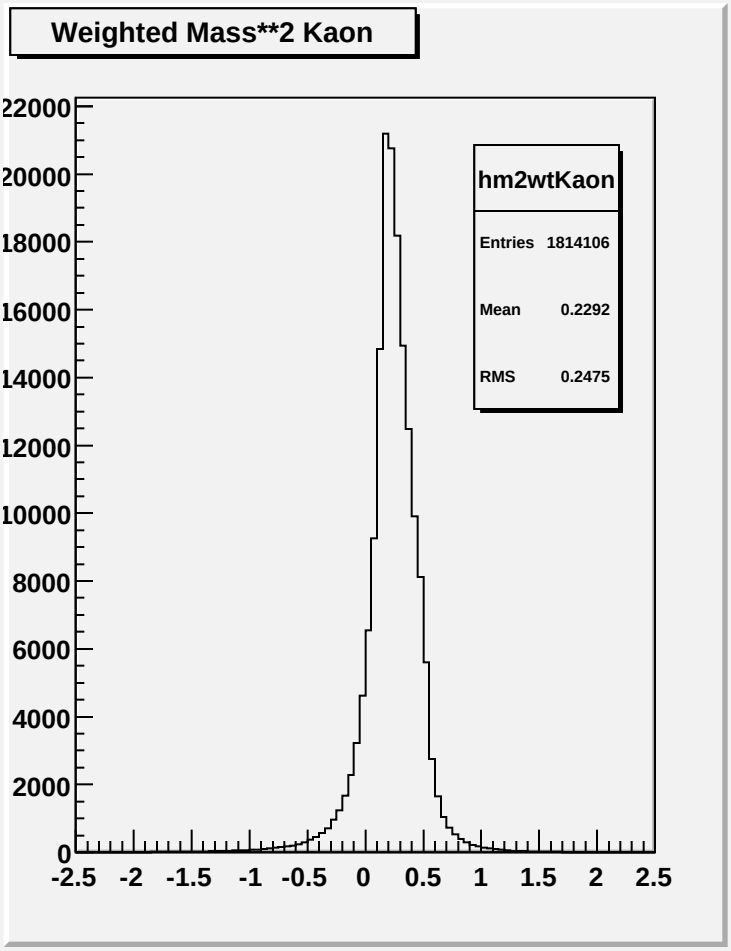

Mass**2 Pion
×10^3
hm2Pion
Entries 383348
Mean 0.05558
RMS 0.03509

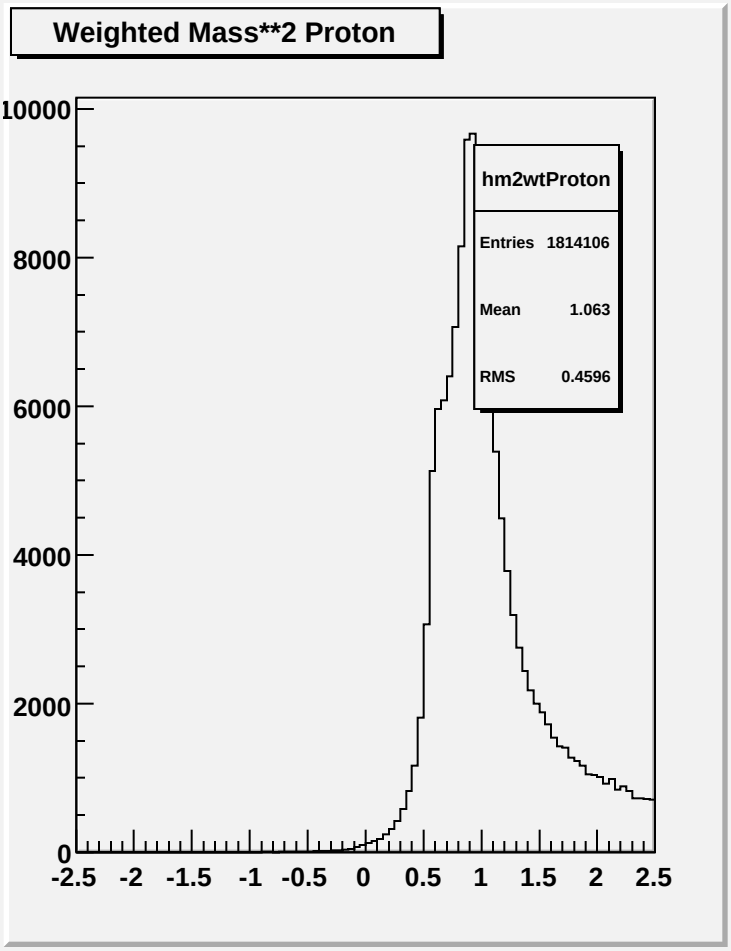

Mass**2 Kaon
hm2Kaon
Entries 238297
Mean 0.2642
RMS 0.1149

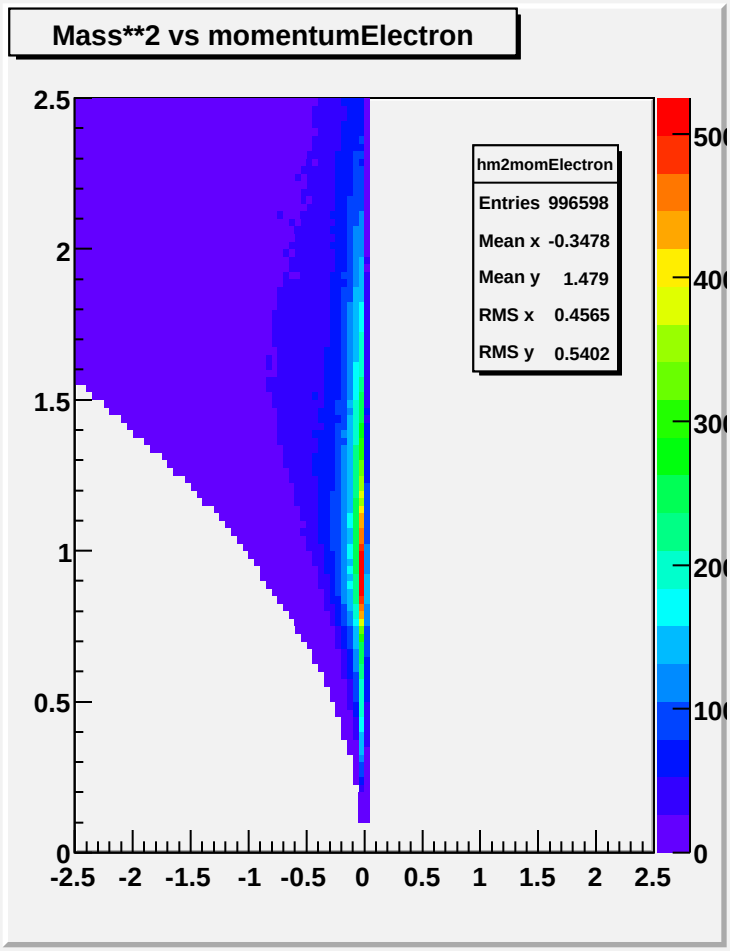

Mass**2 Proton
hm2Proton
Entries 180211
Mean 1.062
RMS 0.4416

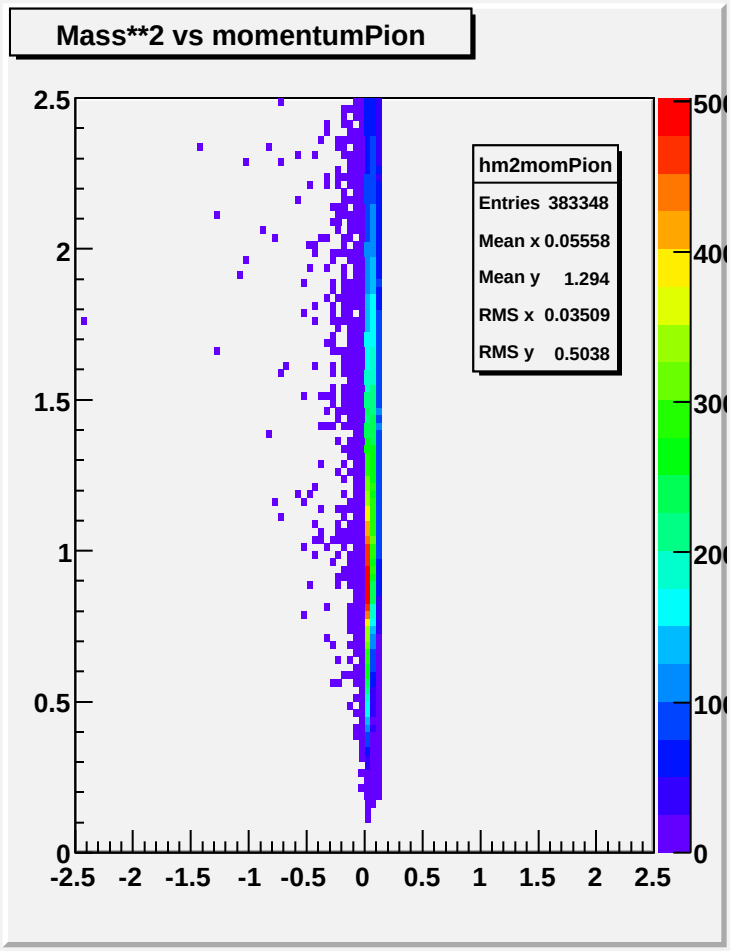

Weighted Mass**2 Electron
×10^3
hm2wtElectron
Entries 1814106
Mean -0.1246
RMS 0.2813

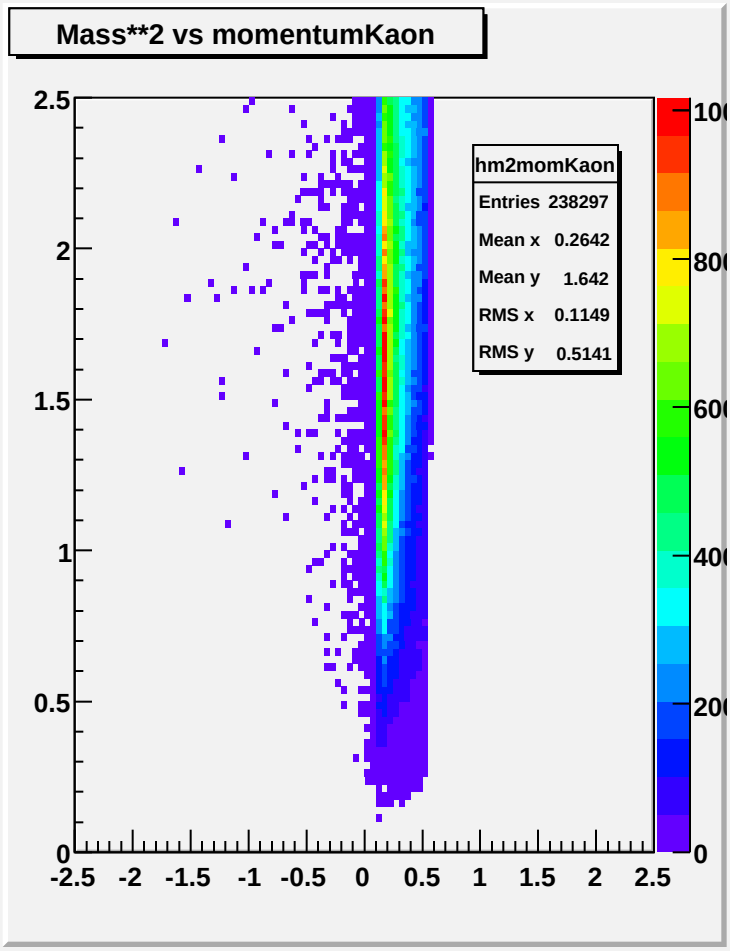

Weighted Mass**2 Pion
×10^3
hm2wtPion
Entries 1814106
Mean -0.248
RMS 0.5032

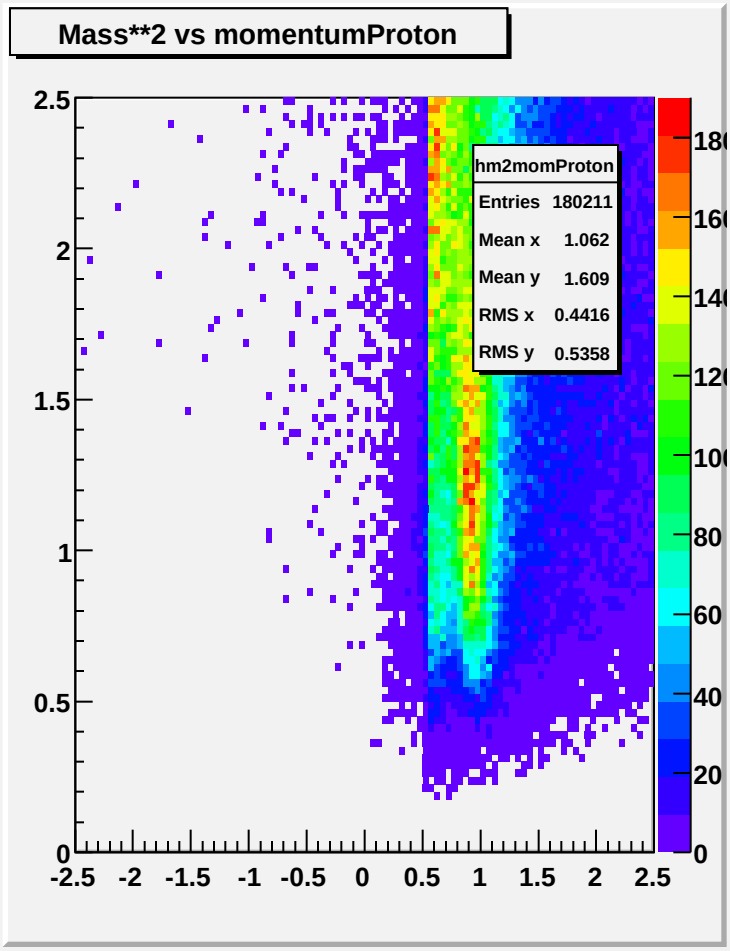

Weighted Mass**2 Kaon
hm2wtKaon
Entries 1814106
Mean 0.2292
RMS 0.2475


Weighted Mass**2 Proton
hm2wtProton
Entries 1814106
Mean 1.063
RMS 0.4596


Mass**2 vs momentumElectron
hm2momElectron
Entries 996598
Mean x -0.3478
Mean y 1.479
RMS x 0.4565
RMS y 0.5402


Mass**2 vs momentumPion
hm2momPion
Entries 383348
Mean x 0.05558
Mean y 1.294
RMS x 0.03509
RMS y 0.5038


Mass**2 vs momentumKaon
hm2momKaon
Entries 238297
Mean x 0.2642
Mean y 1.642
RMS x 0.1149
RMS y 0.5141


Mass**2 vs momentumProton
hm2momProton
Entries 180211
Mean x 1.062
Mean y 1.609
RMS x 0.4416
RMS y 0.5358