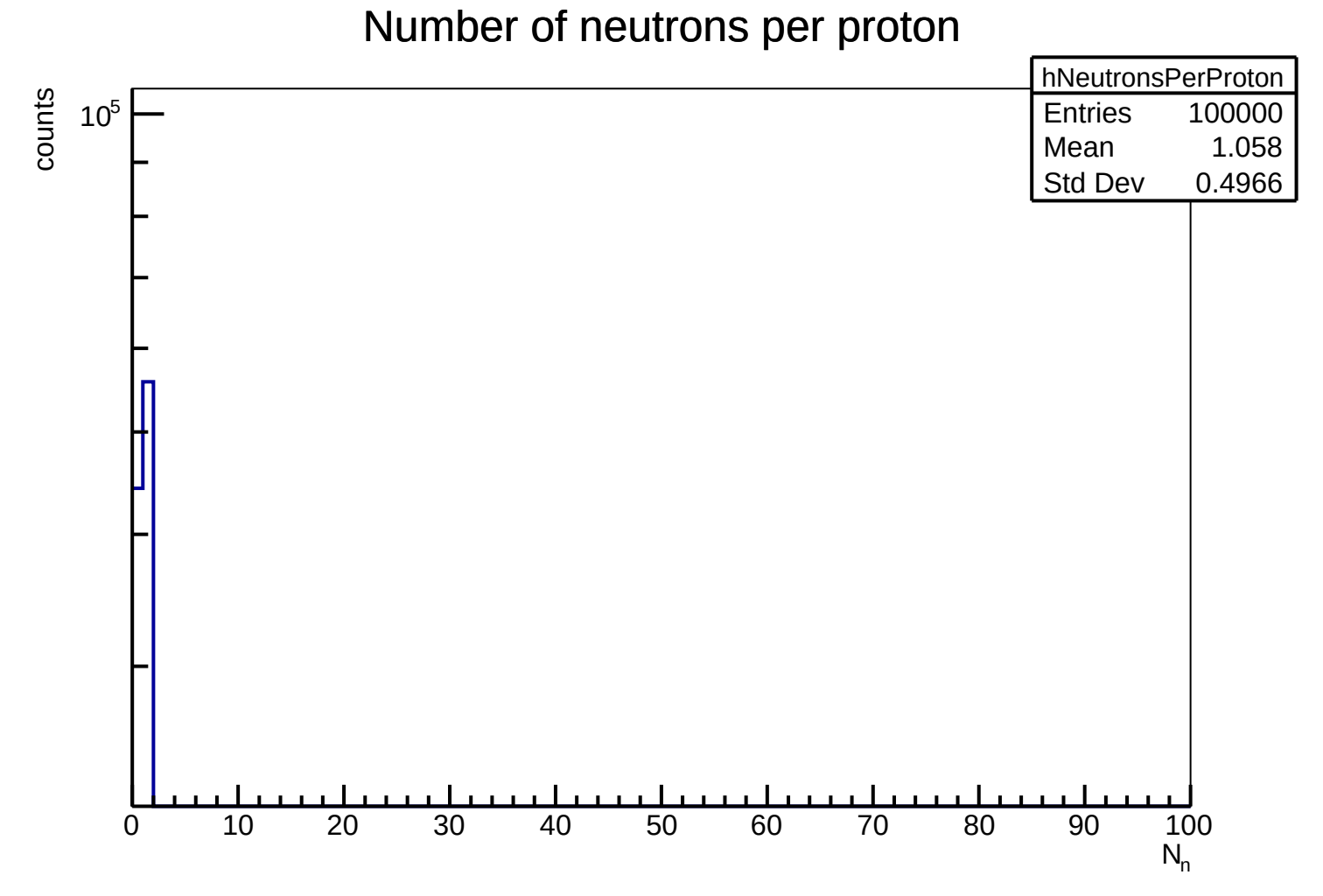
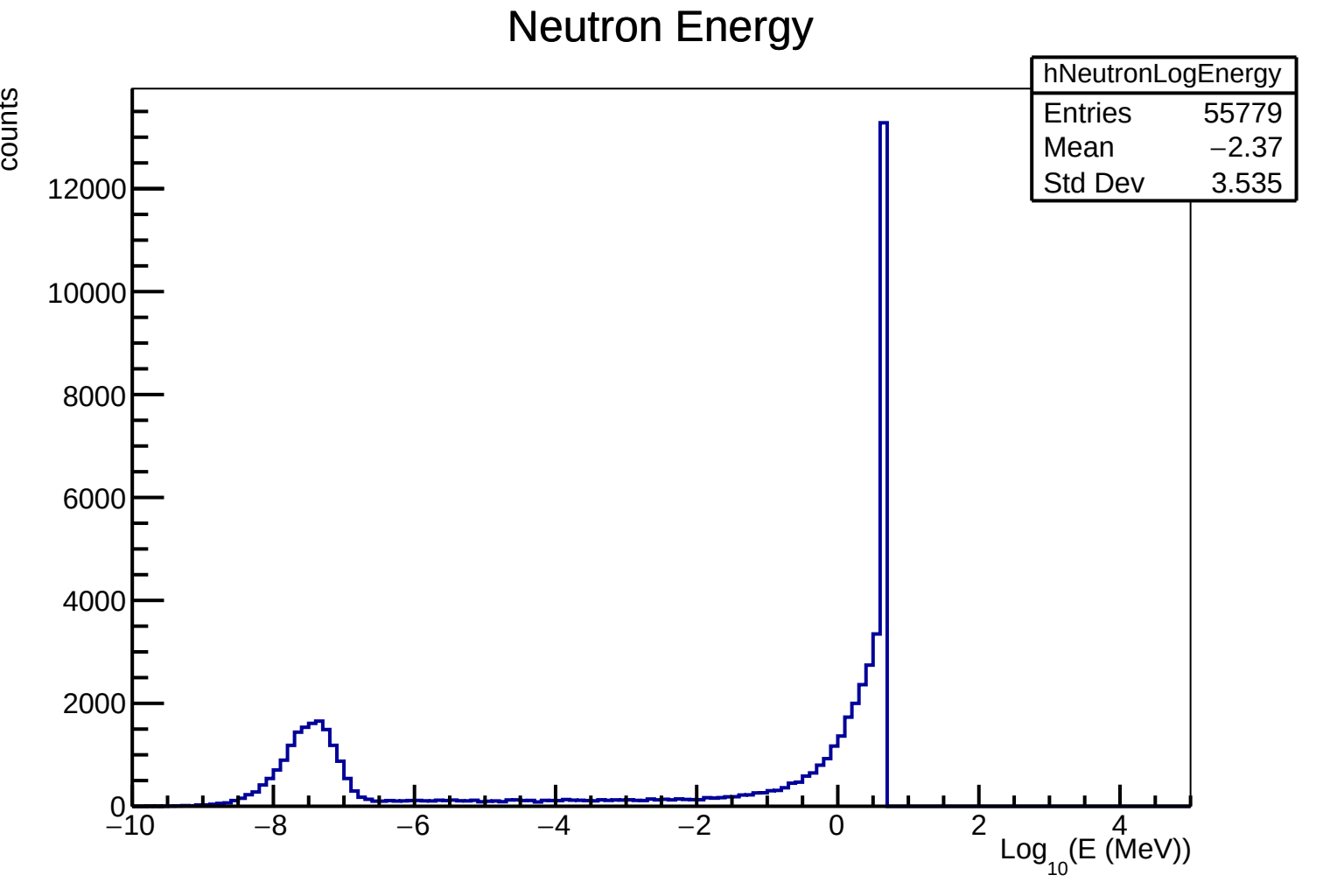
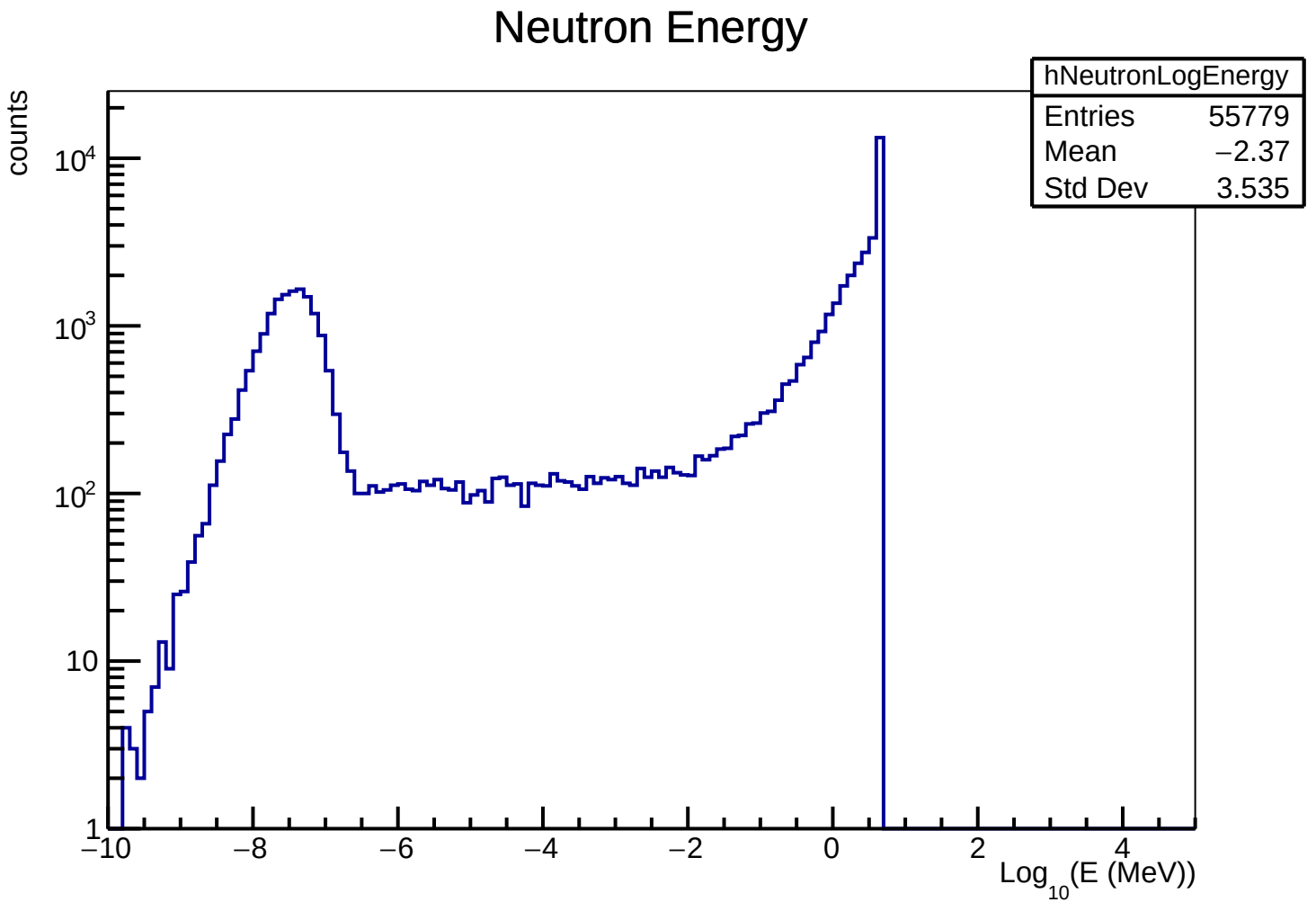
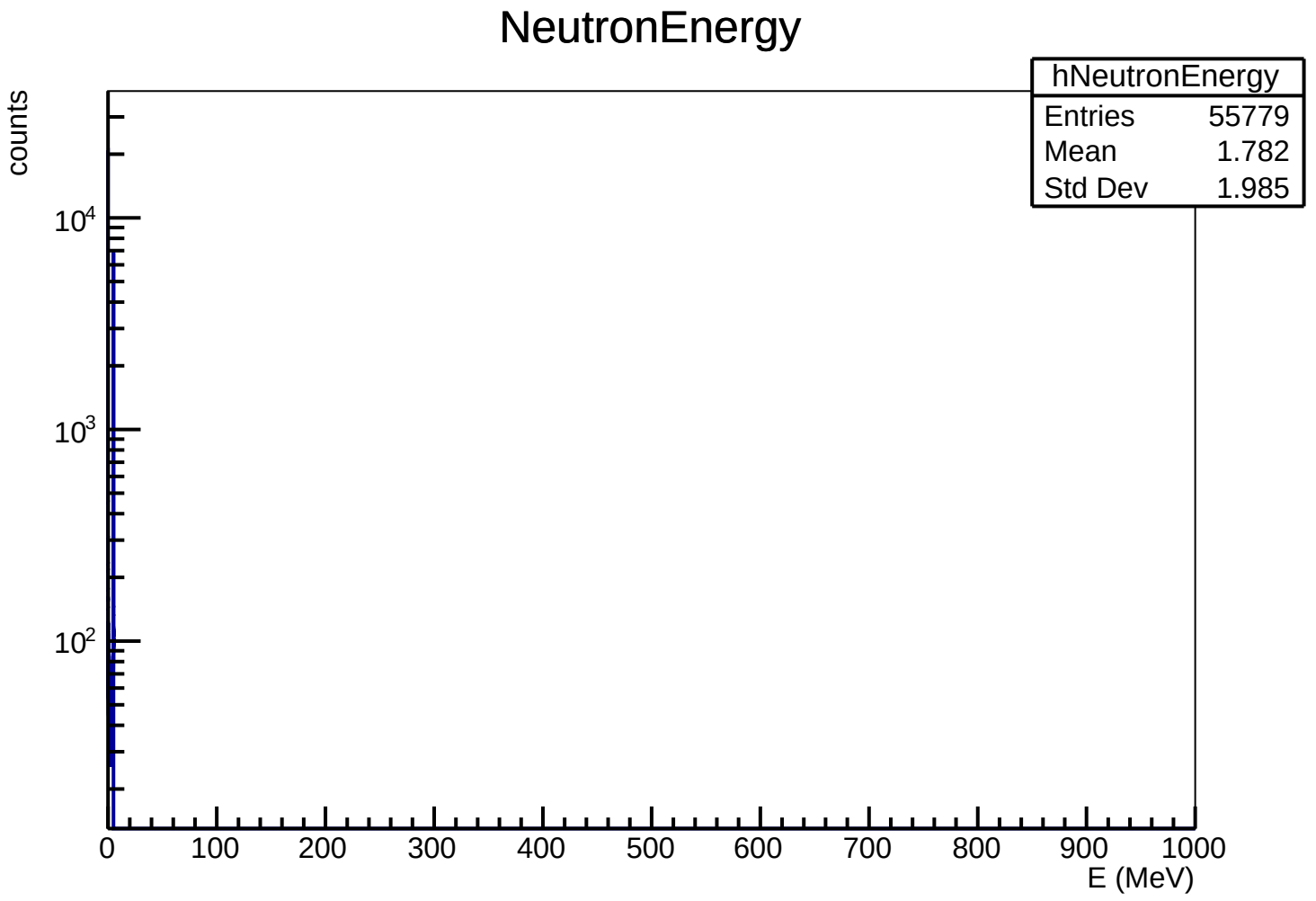
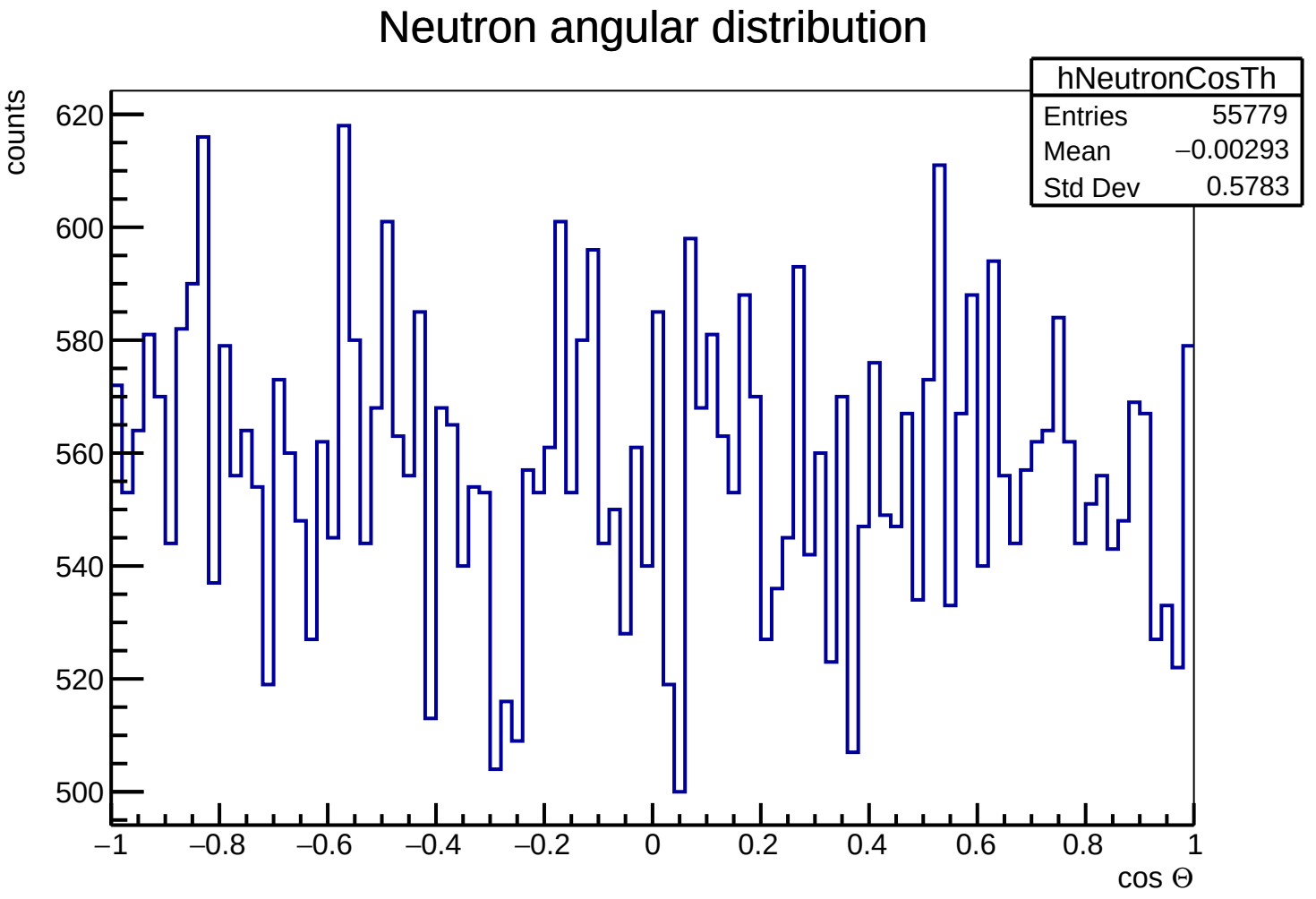
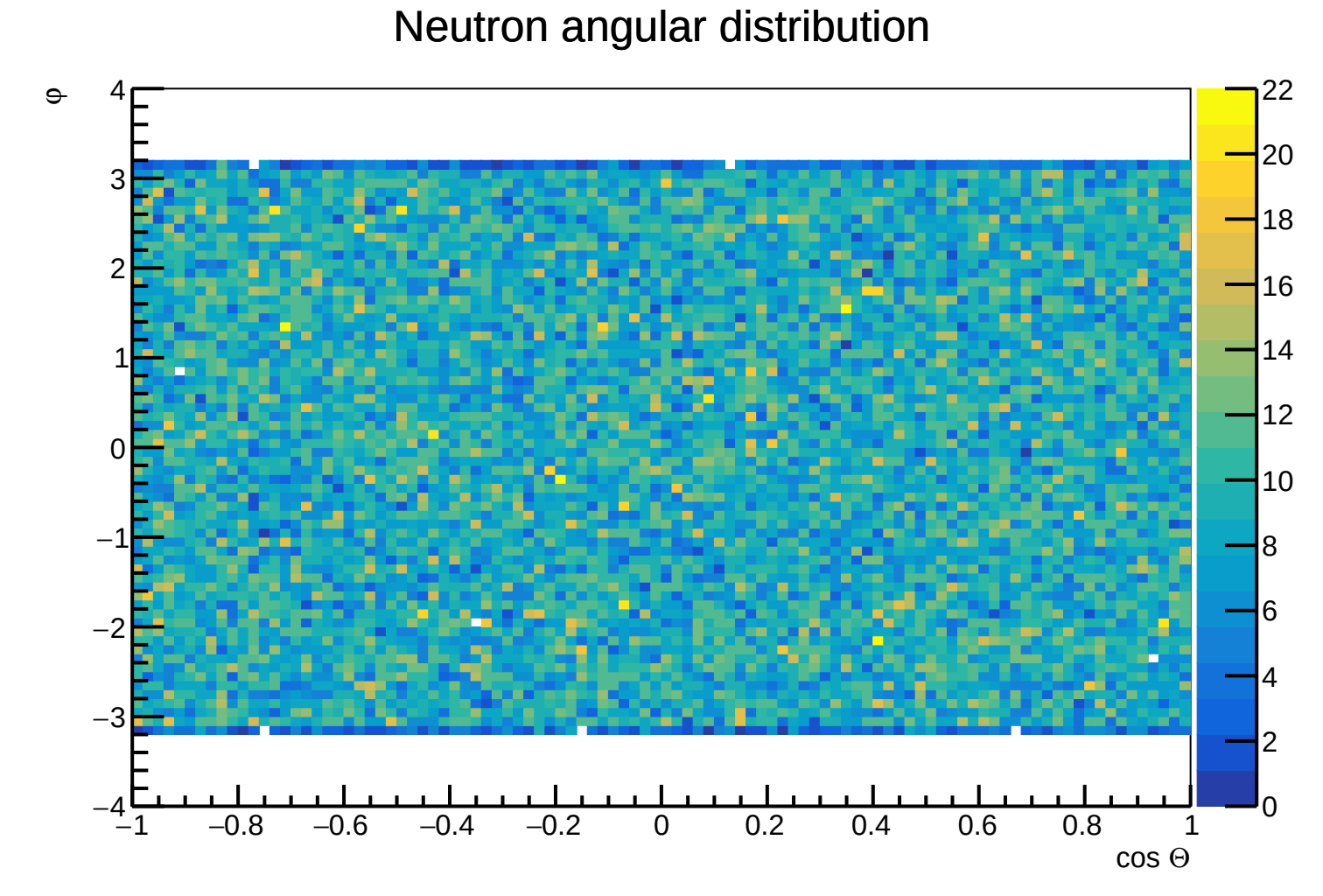

Number of neutrons per proton
hNeutronsPerProton
Entries 100000
Mean 1.058
Std Dev 0.4966
counts
10^5
0
10
20
30
40
50
60
70
80
90
100
N_n

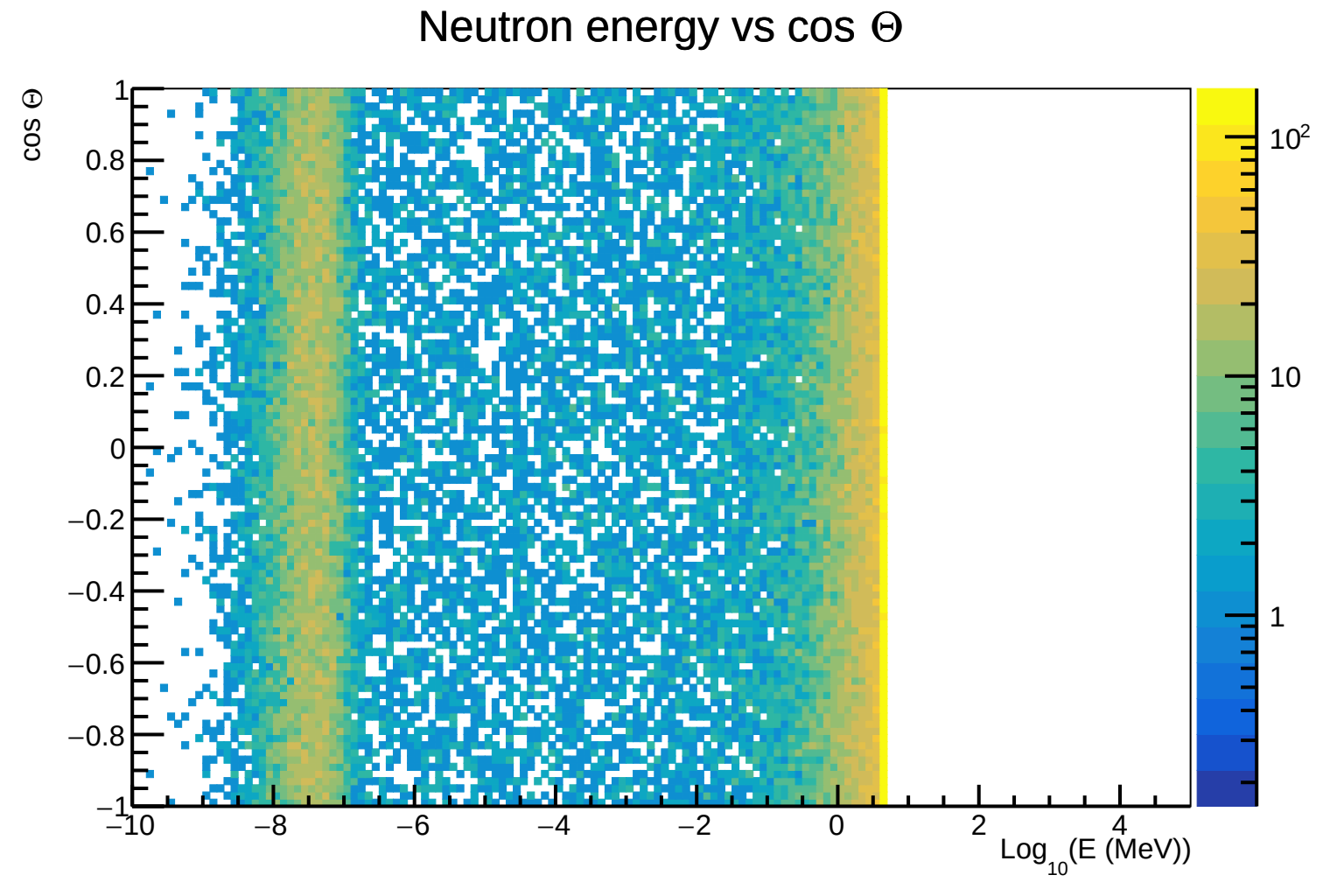

Neutron Energy
hNeutronLogEnergy
Entries 55779
Mean −2.37
Std Dev 3.535
counts
12000
10000
8000
6000
4000
2000
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

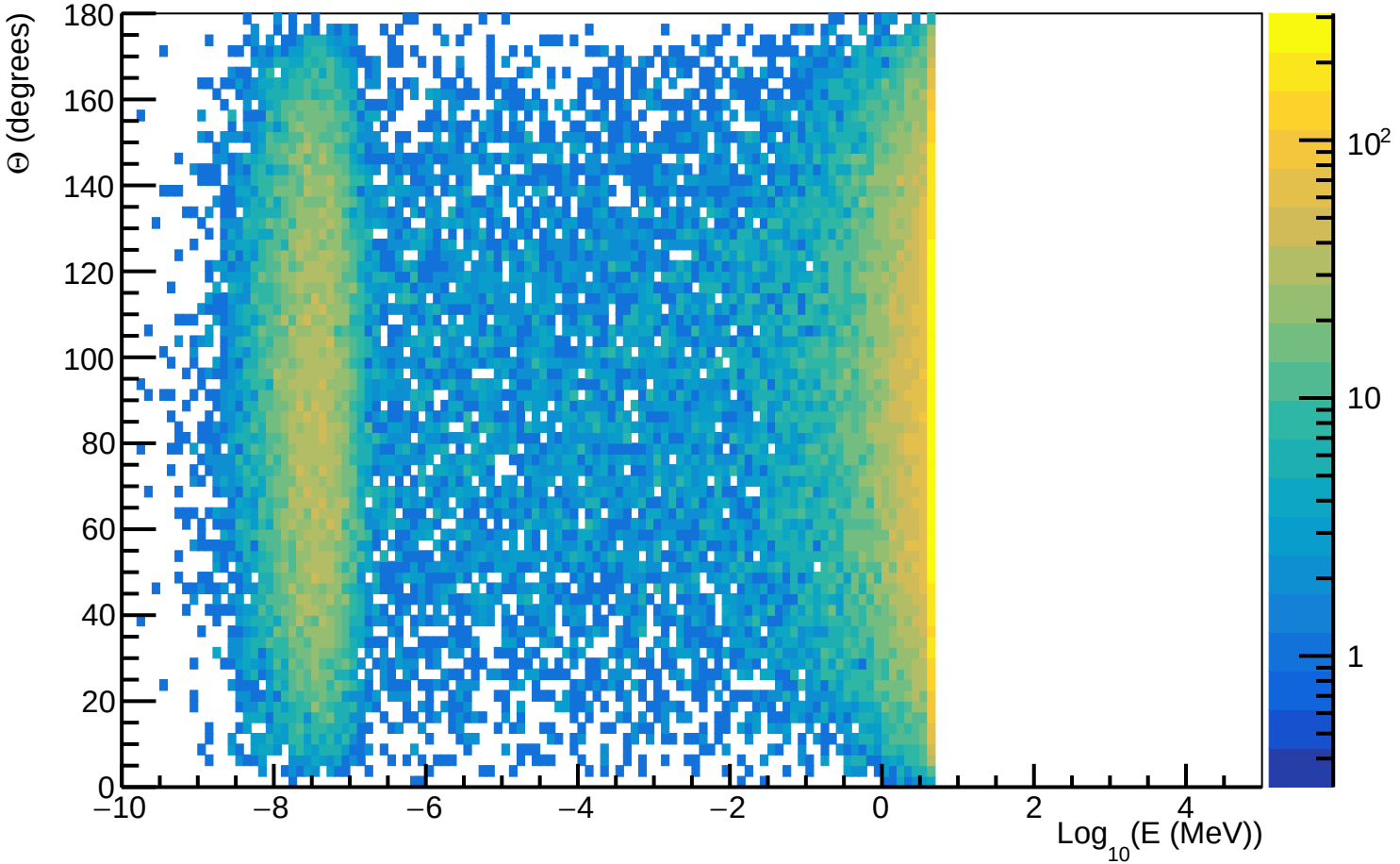

Neutron Energy
hNeutronLogEnergy
Entries 55779
Mean −2.37
Std Dev 3.535
counts
10^4
10^3
10^2
10
1
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

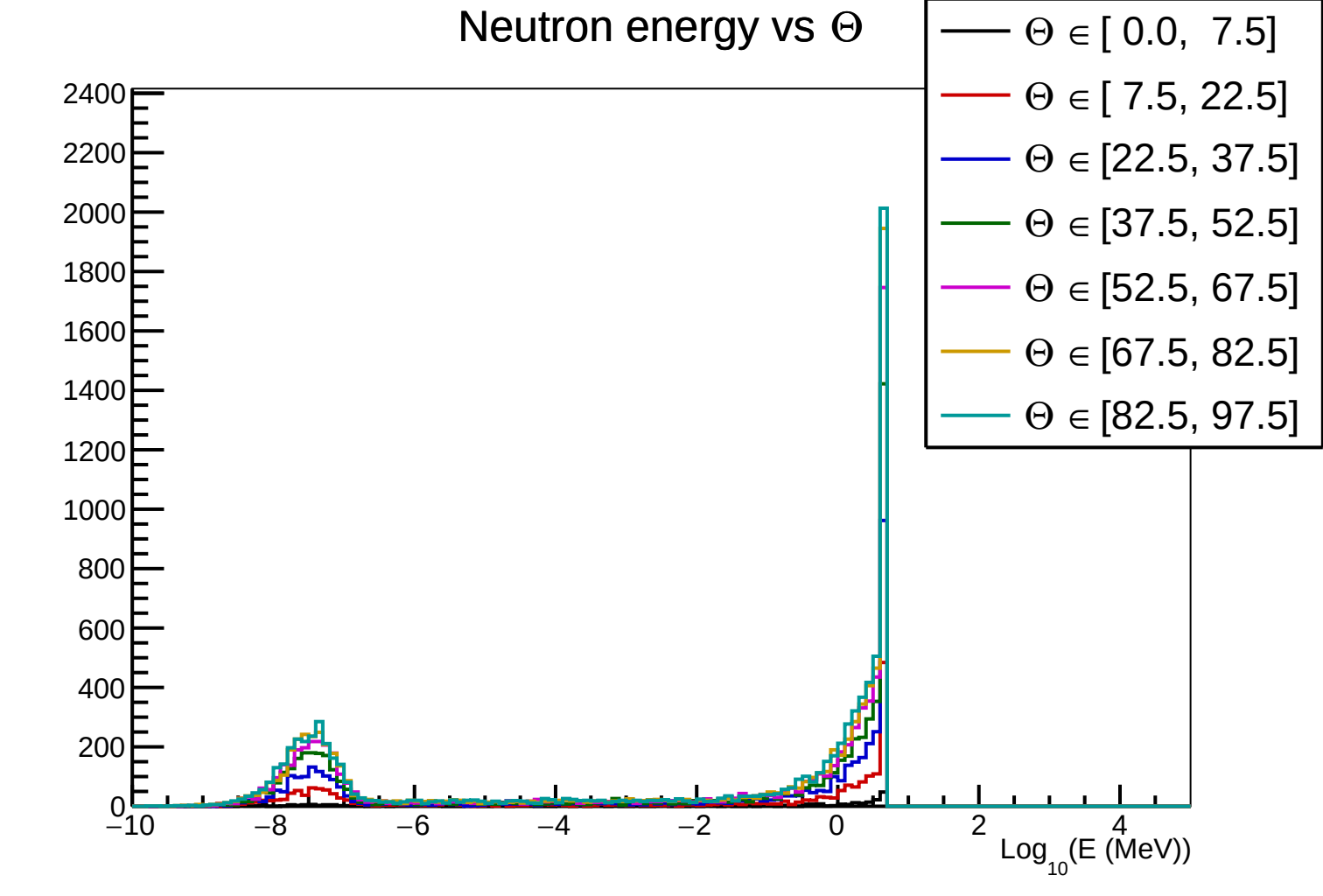

NeutronEnergy
hNeutronEnergy
Entries 55779
Mean 1.782
Std Dev 1.985
counts
10^4
10^3
10^2
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)

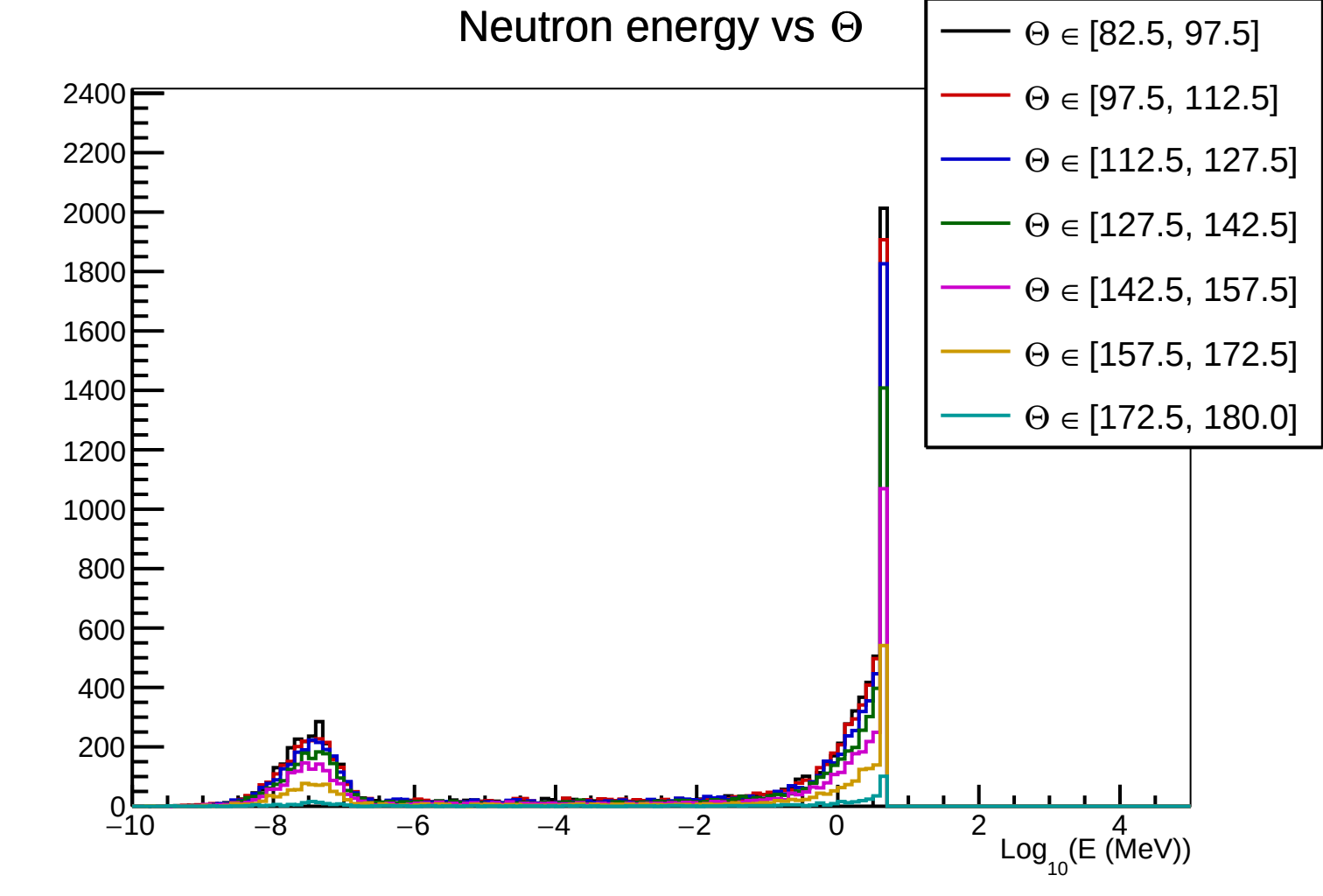

Neutron angular distribution
hNeutronCosTh
Entries 55779
Mean −0.00293
Std Dev 0.5783
counts
620
600
580
560
540
520
500
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ

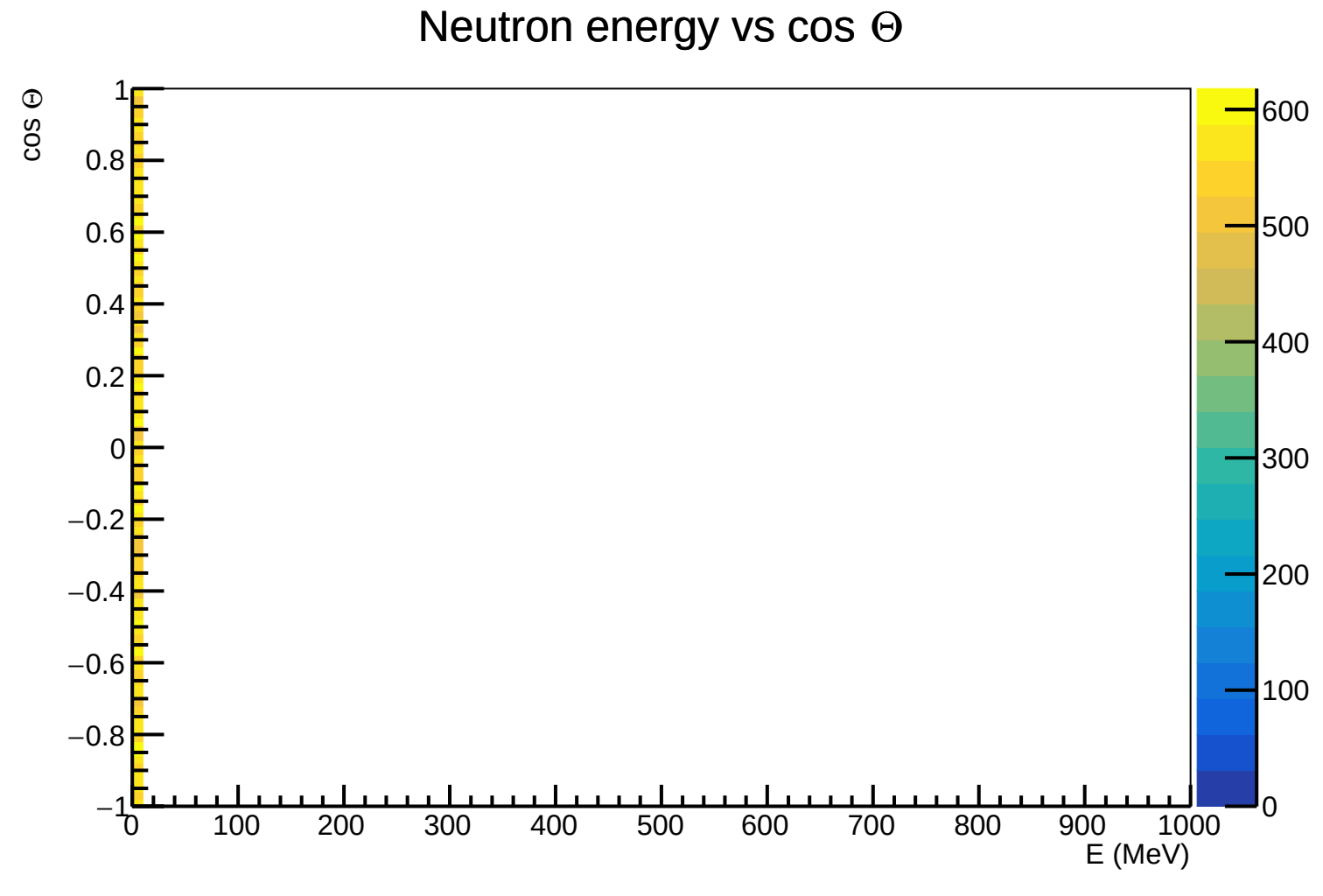

Neutron angular distribution
φ
4
3
2
1
0
−1
−2
−3
−4
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ
22
20
18
16
14
12
10
8
6
4
2
0

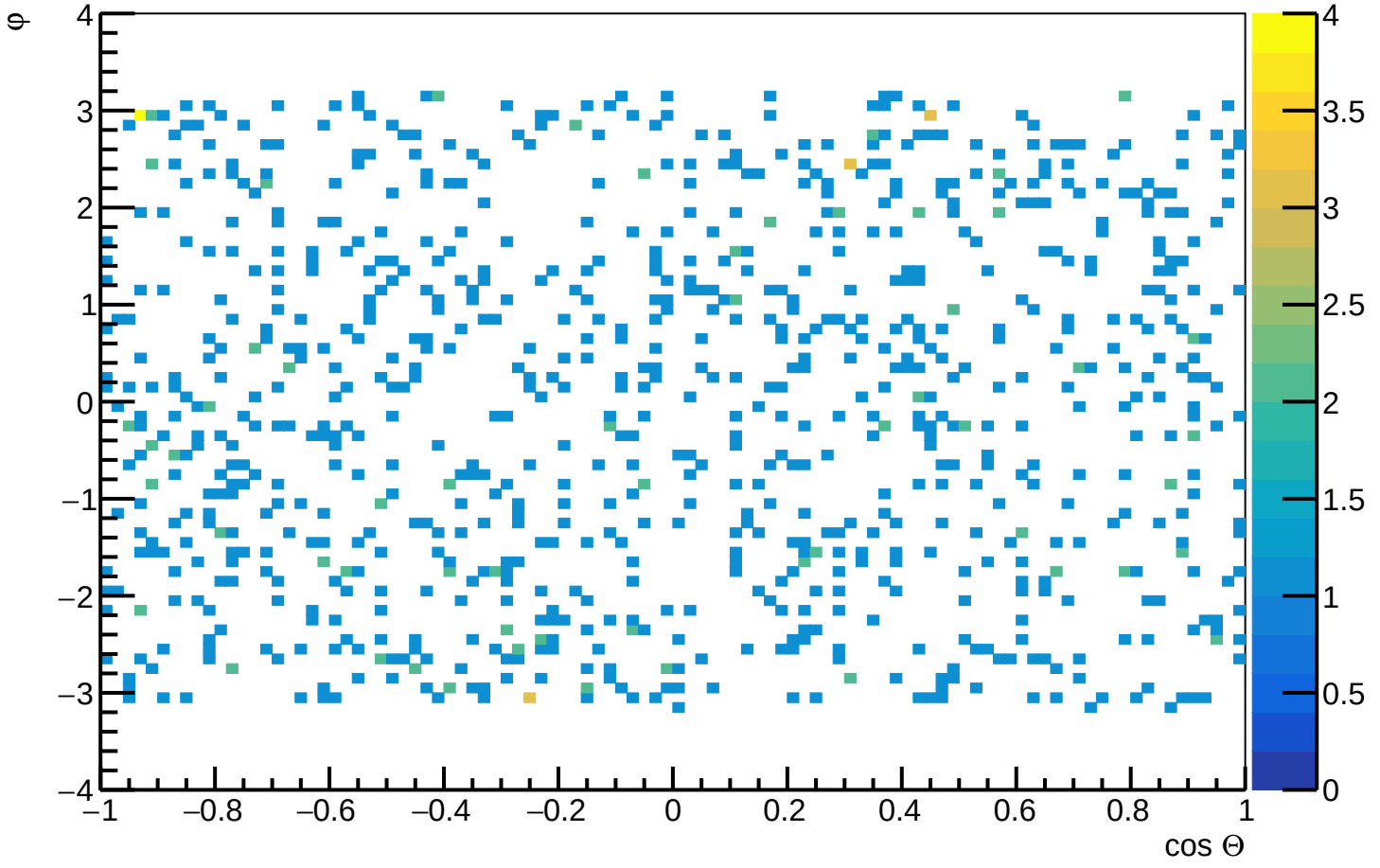

Neutron energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))
10²
10
1

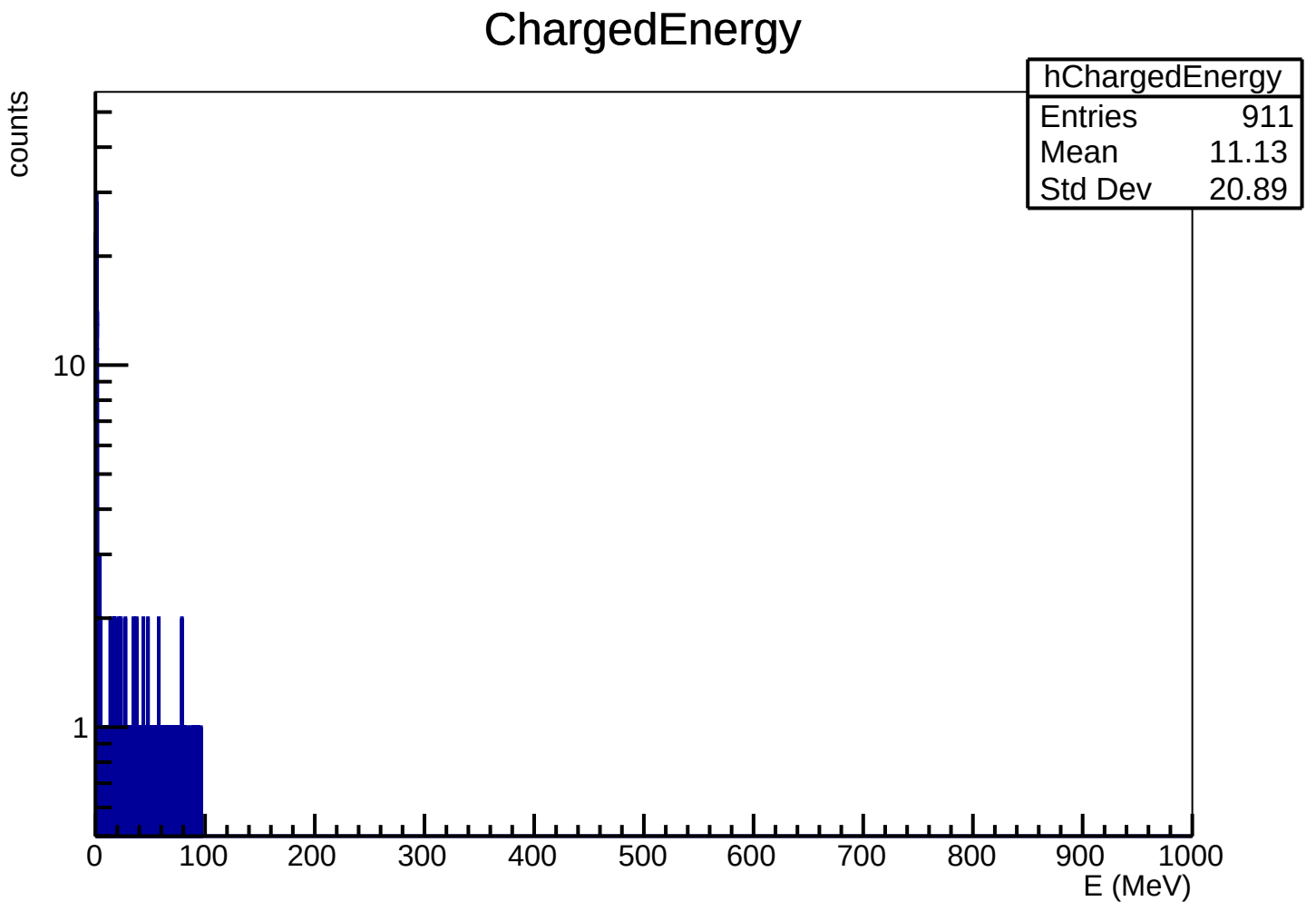

Neutron energy vs Θ
Θ (degrees)
180
160
140
120
100
80
60
40
20
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))
10²
10
1

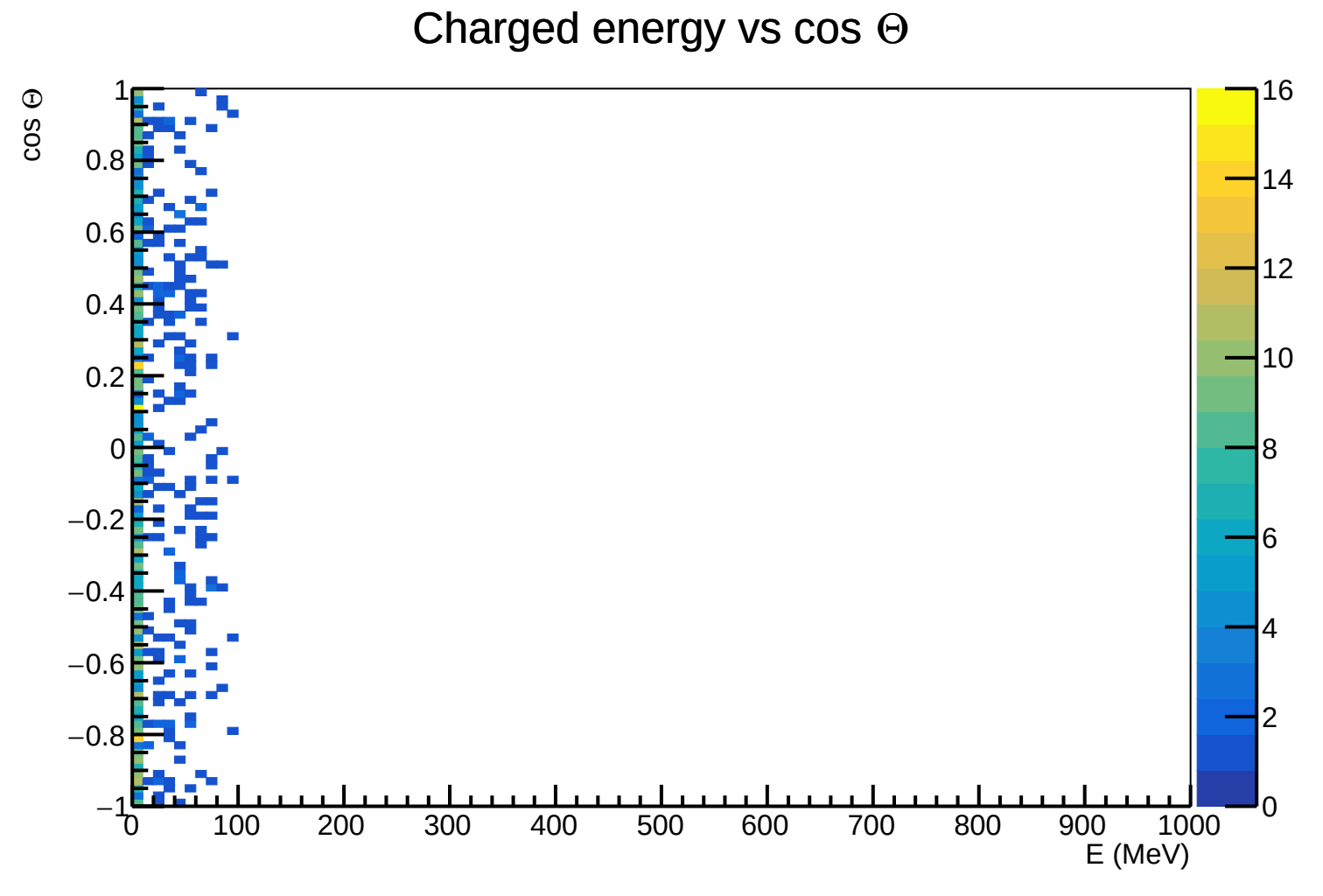

Neutron energy vs Θ
Θ ∈ [0.0, 7.5]
Θ ∈ [7.5, 22.5]
Θ ∈ [22.5, 37.5]
Θ ∈ [37.5, 52.5]
Θ ∈ [52.5, 67.5]
Θ ∈ [67.5, 82.5]
Θ ∈ [82.5, 97.5]
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

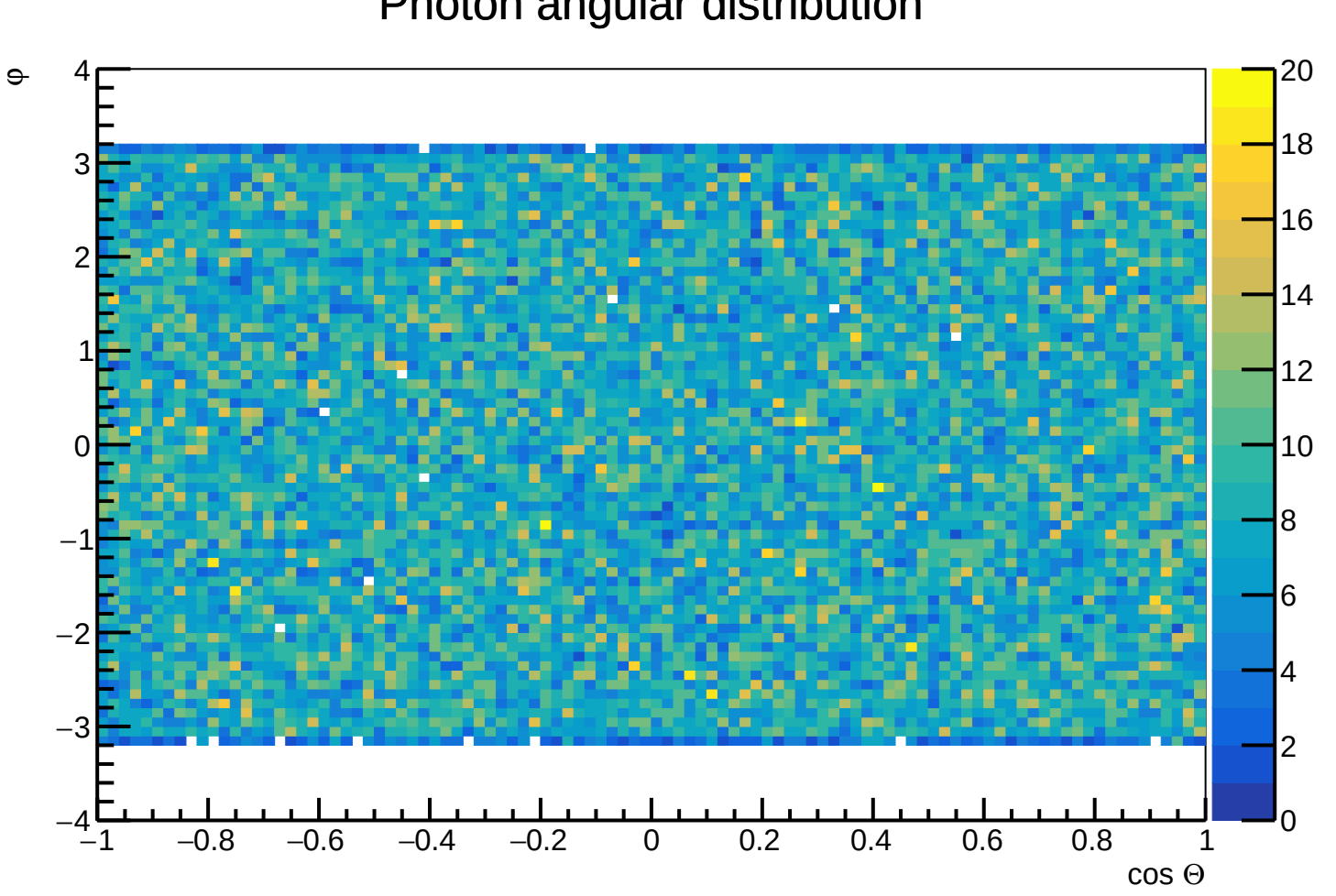

Neutron energy vs Θ
Θ ∈ [82.5, 97.5]
Θ ∈ [97.5, 112.5]
Θ ∈ [112.5, 127.5]
Θ ∈ [127.5, 142.5]
Θ ∈ [142.5, 157.5]
Θ ∈ [157.5, 172.5]
Θ ∈ [172.5, 180.0]
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

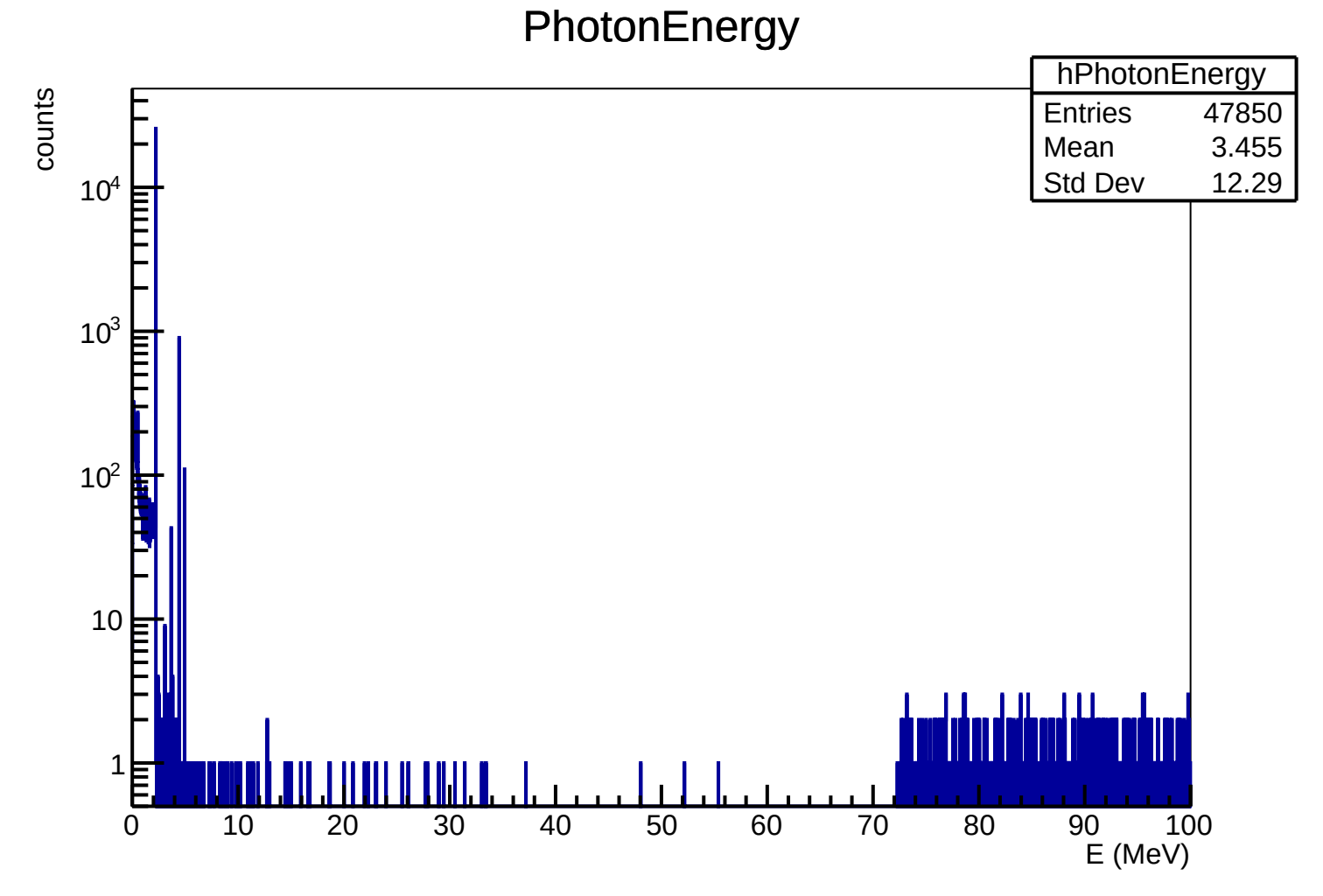

Neutron energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)
600
500
400
300
200
100
0

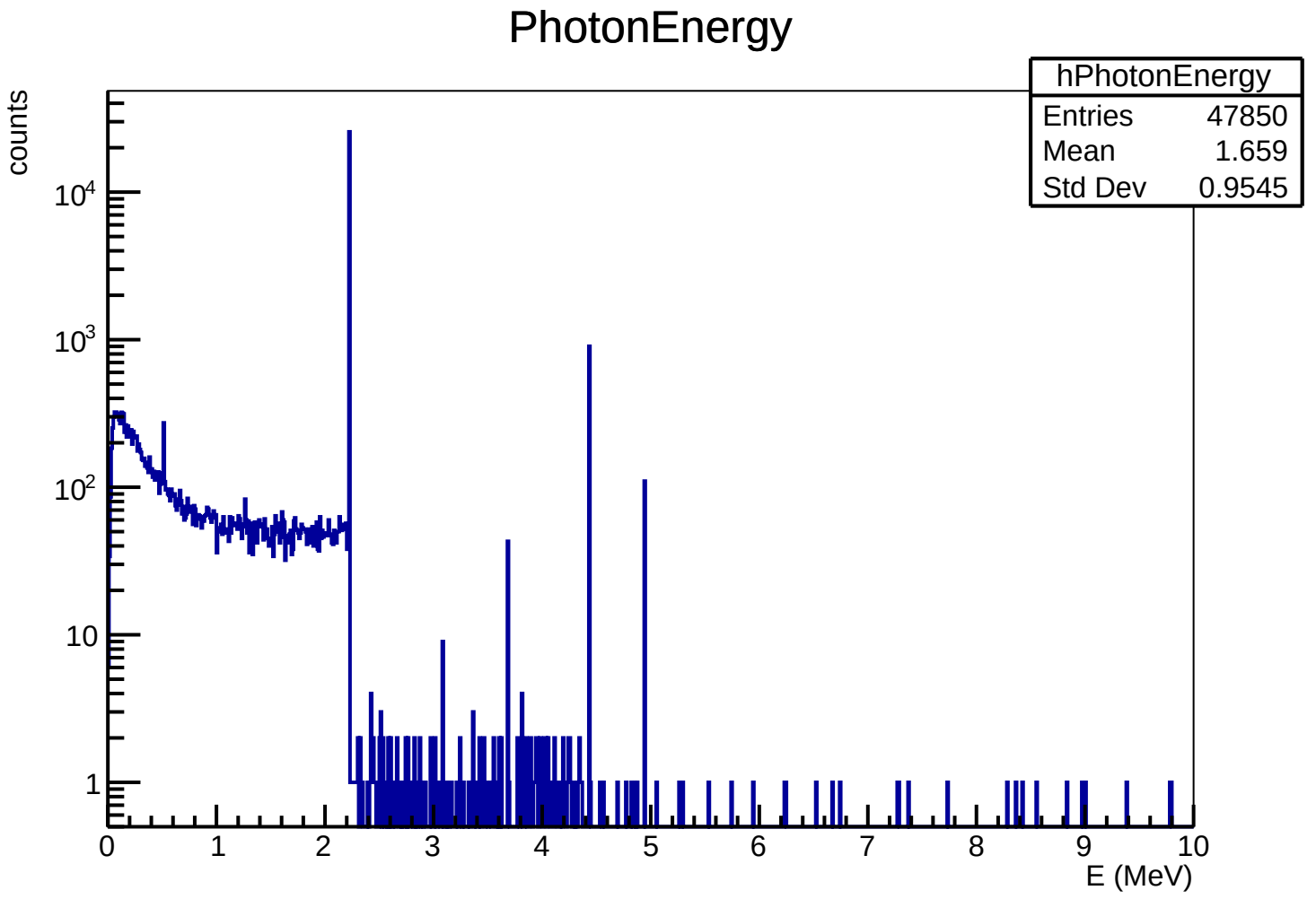

Charged angular distribution
φ
4
3
2
1
0
−1
−2
−3
−4
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ
4
3.5
3
2.5
2
1.5
1
0.5
0

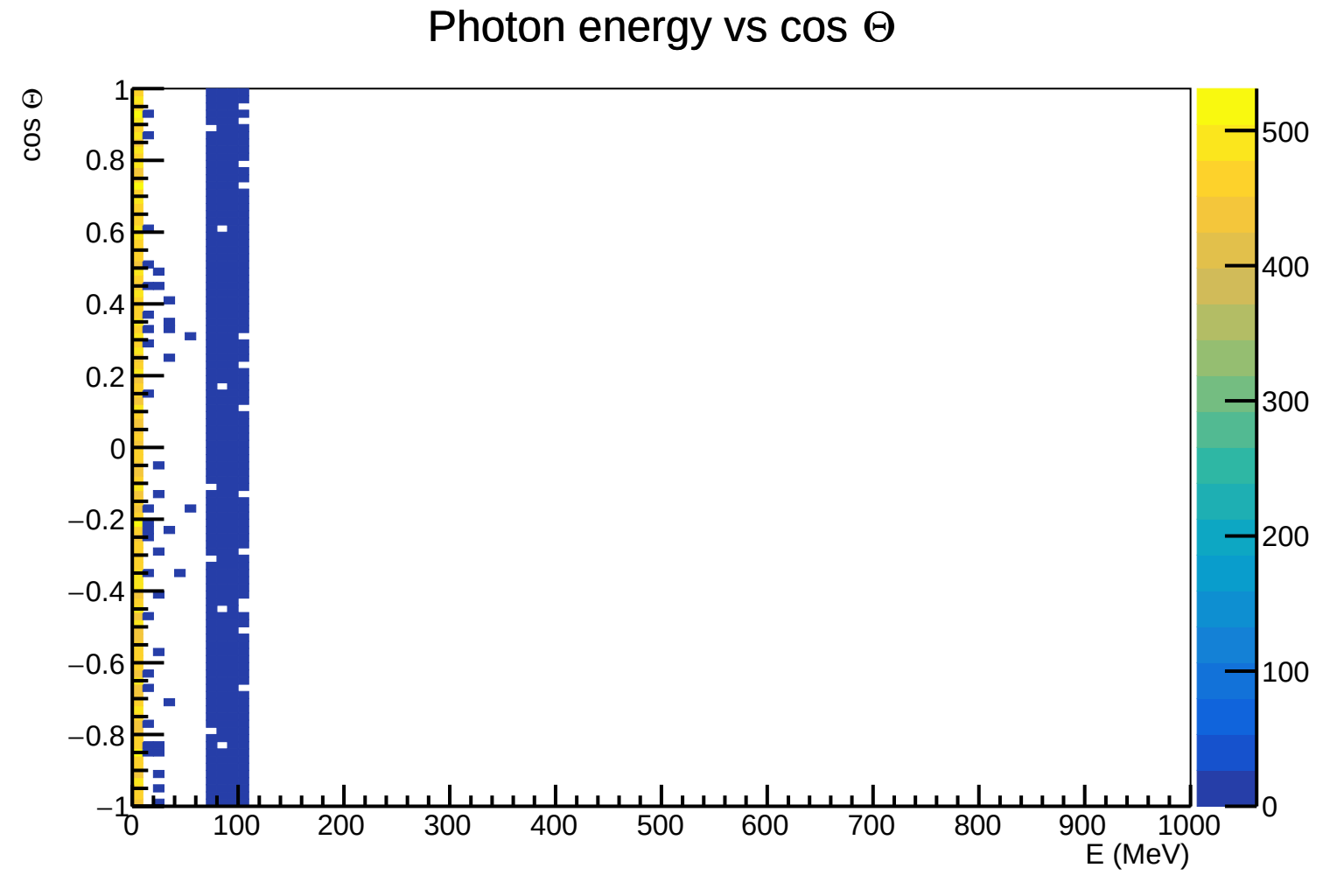

ChargedEnergy
hChargedEnergy
Entries 911
Mean 11.13
Std Dev 20.89
counts
10
1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)

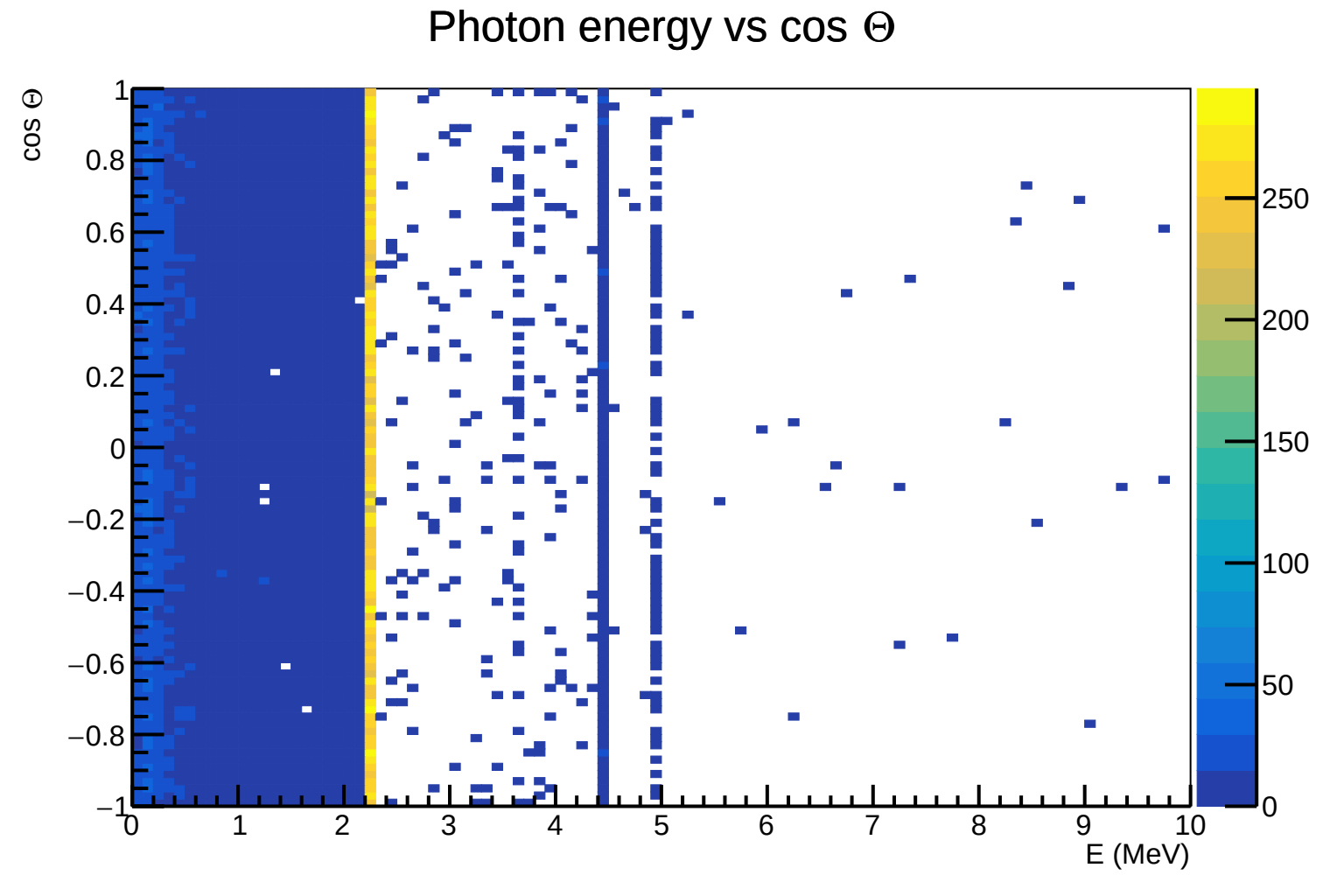

Charged energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)
16
14
12
10
8
6
4
2
0


Photon angular distribution
φ
4
3
2
1
0
−1
−2
−3
−4
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ
20
18
16
14
12
10
8
6
4
2
0


PhotonEnergy
hPhotonEnergy
Entries 47850
Mean 3.455
Std Dev 12.29
counts
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
E (MeV)


PhotonEnergy
hPhotonEnergy
Entries 47850
Mean 1.659
Std Dev 0.9545
counts
10^4
10^3
10^2
10
1
0 1 2 3 4 5 6 7 8 9 10
E (MeV)


Photon energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)
500
400
300
200
100
0


Photon energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
1
2
3
4
5
6
7
8
9
10
E (MeV)
250
200
150
100
50
0