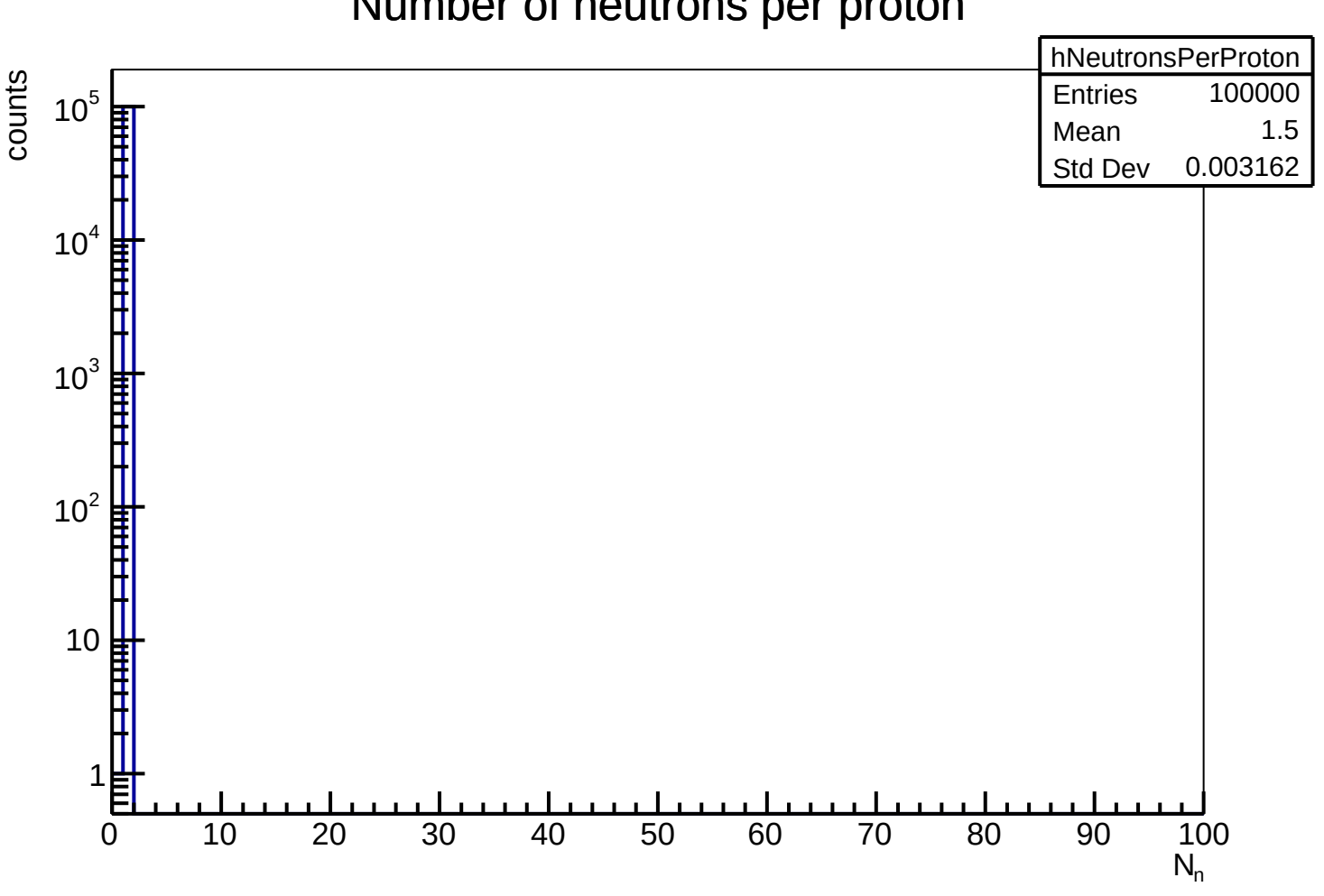
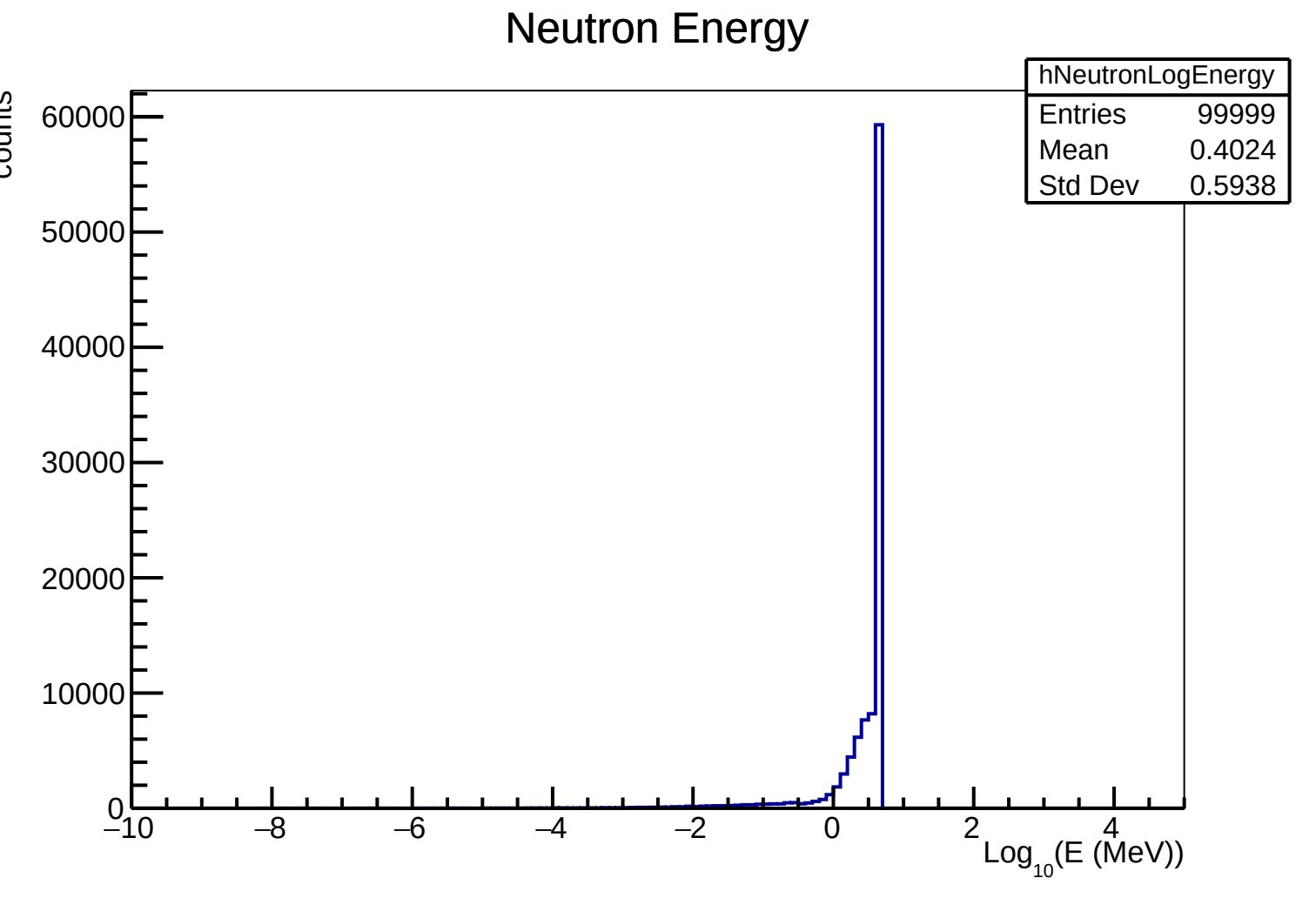
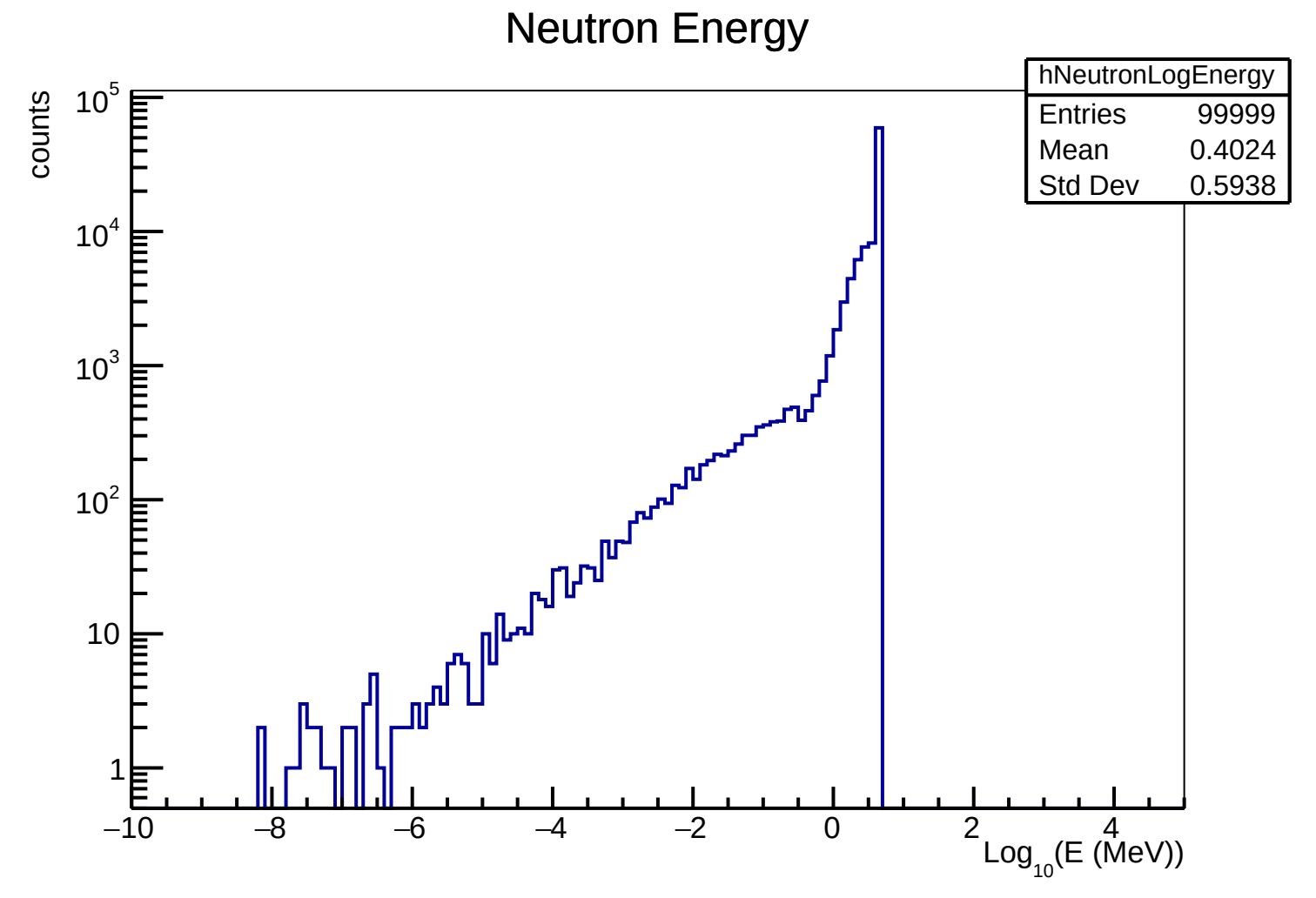
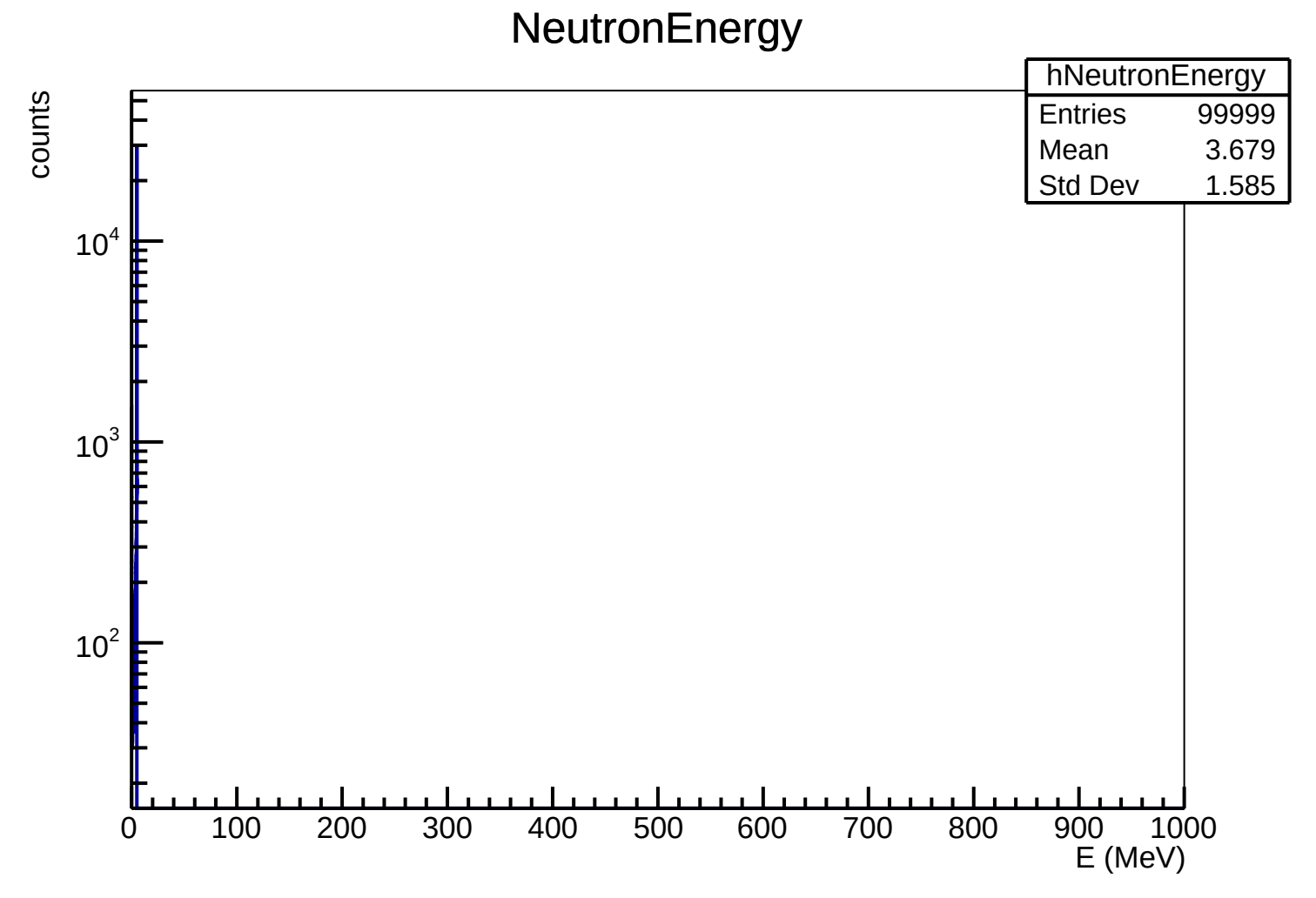
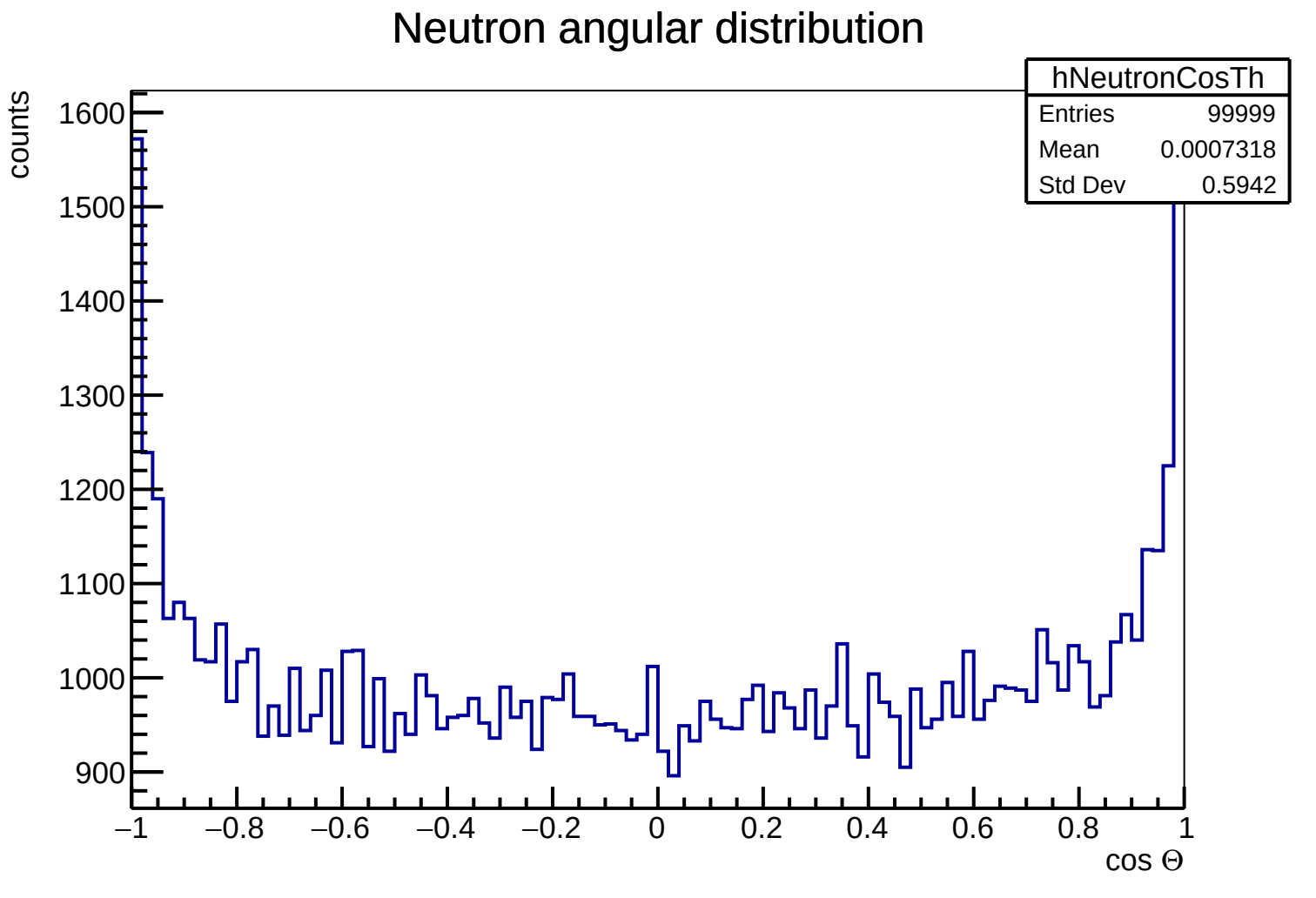
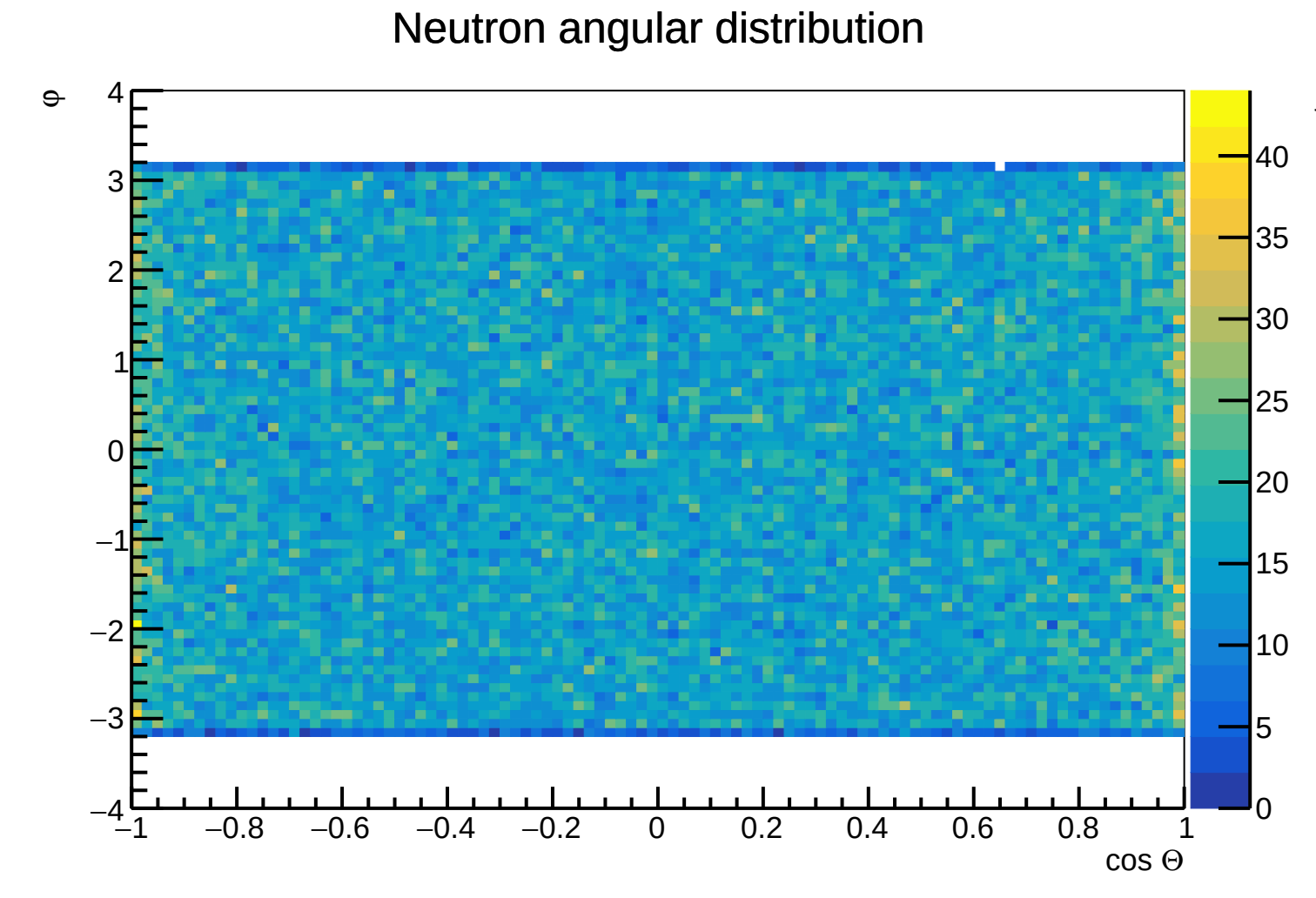

Number of neutrons per proton
hNeutronsPerProton
Entries 100000
Mean 1.5
Std Dev 0.003162
counts
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
N_n

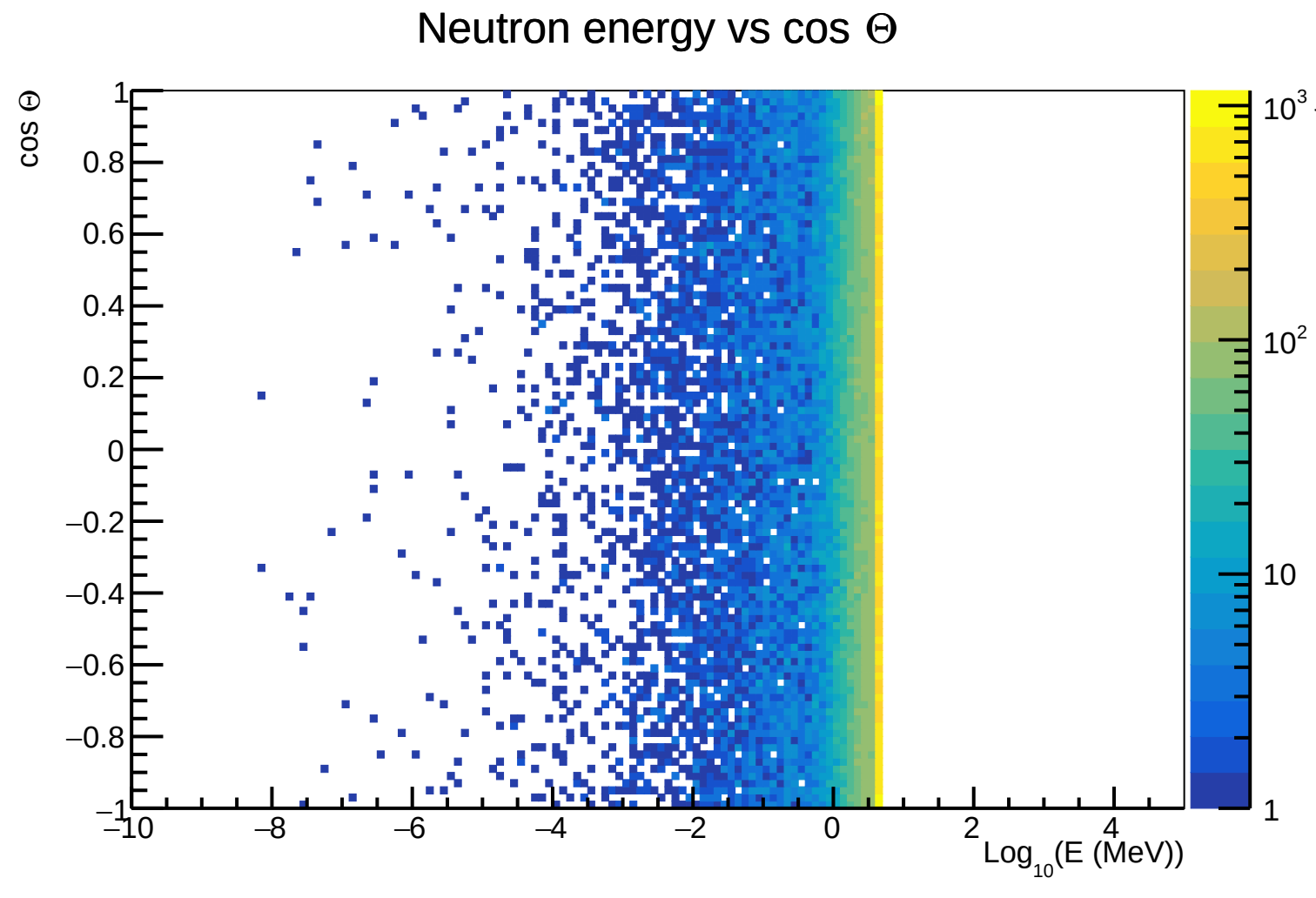

Neutron Energy
hNeutronLogEnergy
Entries 99999
Mean 0.4024
Std Dev 0.5938
Counts
60000
50000
40000
30000
20000
10000
0
–10
–8
–6
–4
–2
0
2
4
Log10(E (MeV))

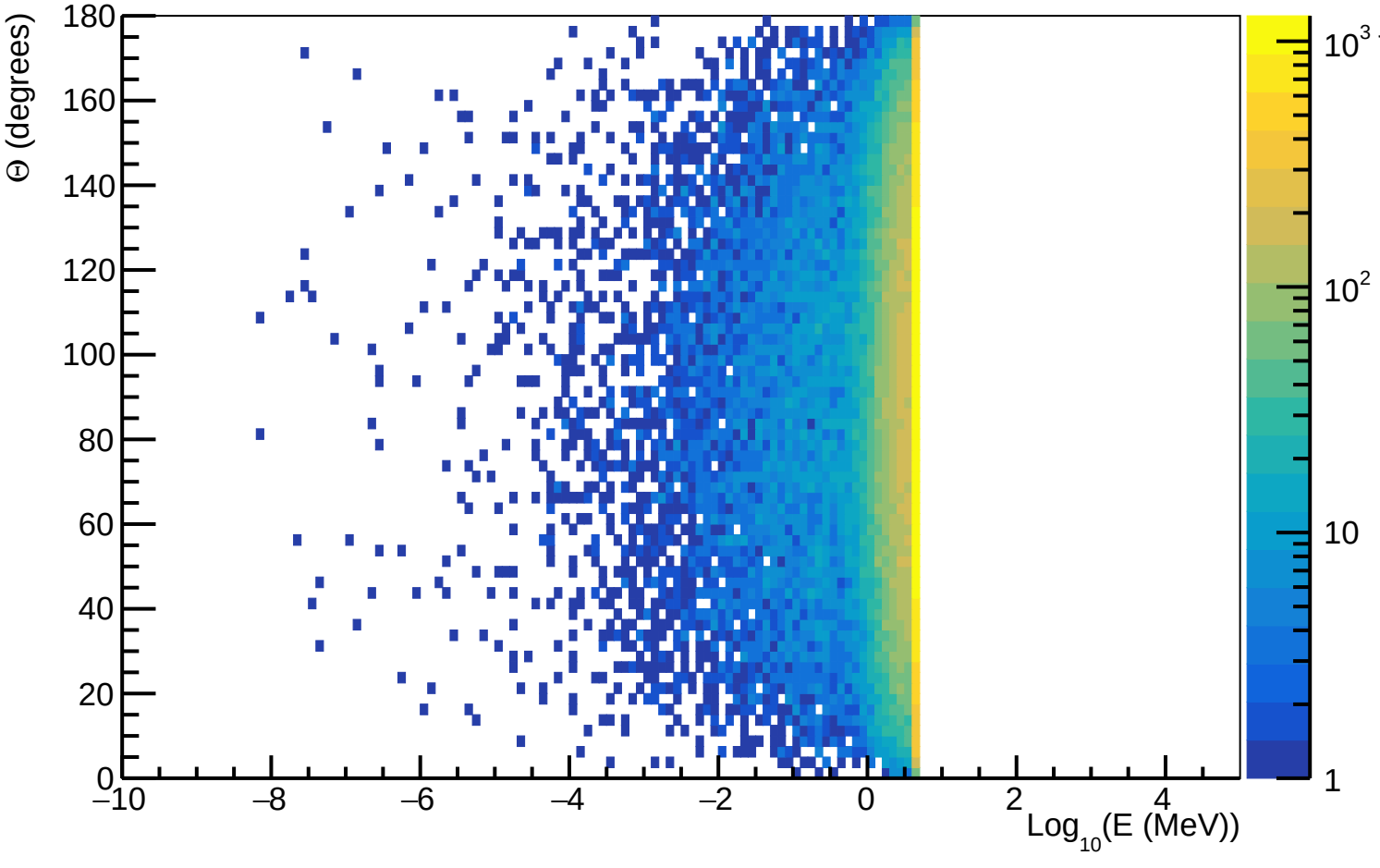

Neutron Energy
hNeutronLogEnergy
Entries 99999
Mean 0.4024
Std Dev 0.5938
counts
10^5
10^4
10^3
10^2
10
1
–10
–8
–6
–4
–2
0
2
4
Log_{10}(E (MeV))

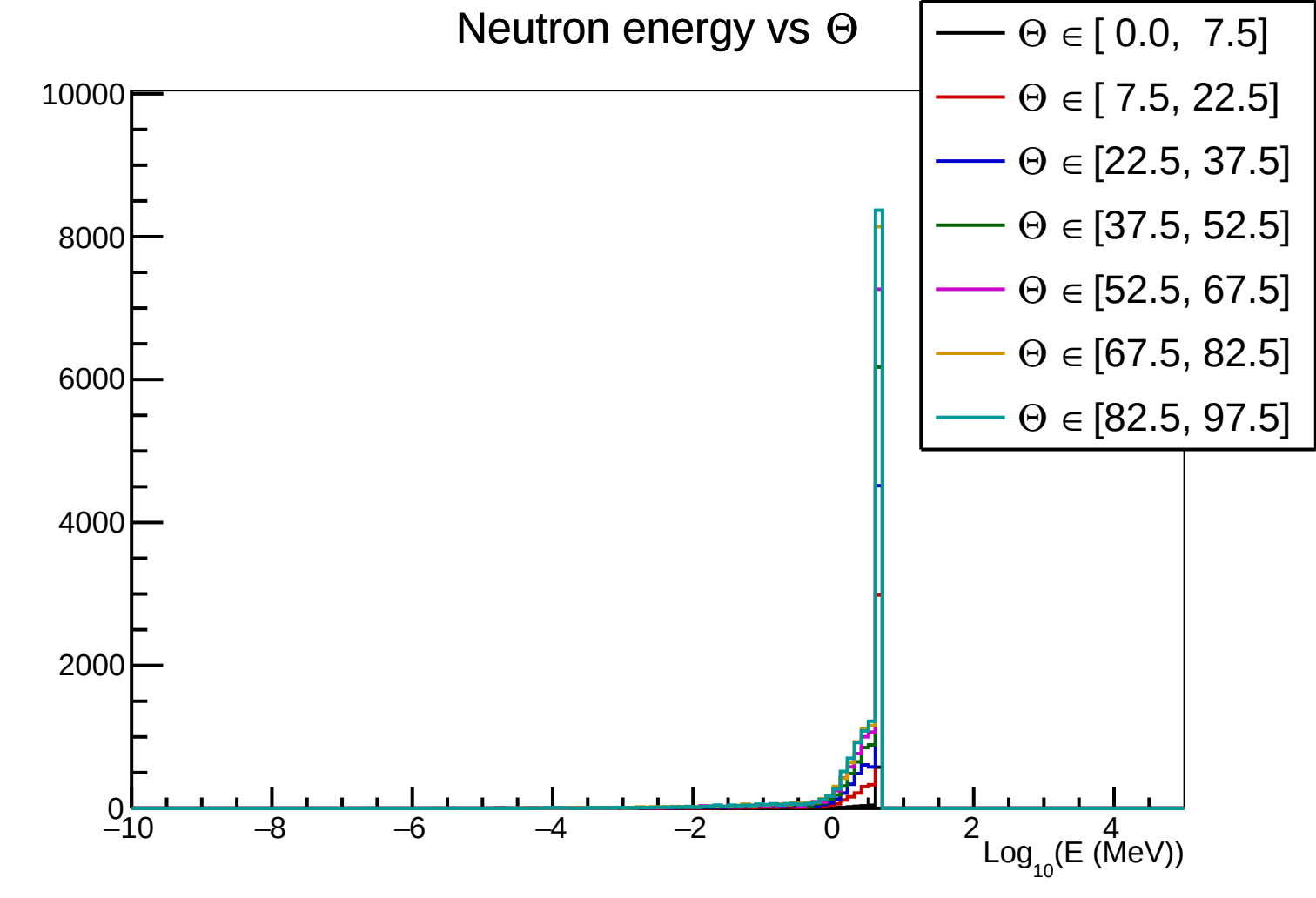

NeutronEnergy
hNeutronEnergy
Entries 99999
Mean 3.679
Std Dev 1.585
counts
10^4
10^3
10^2
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)

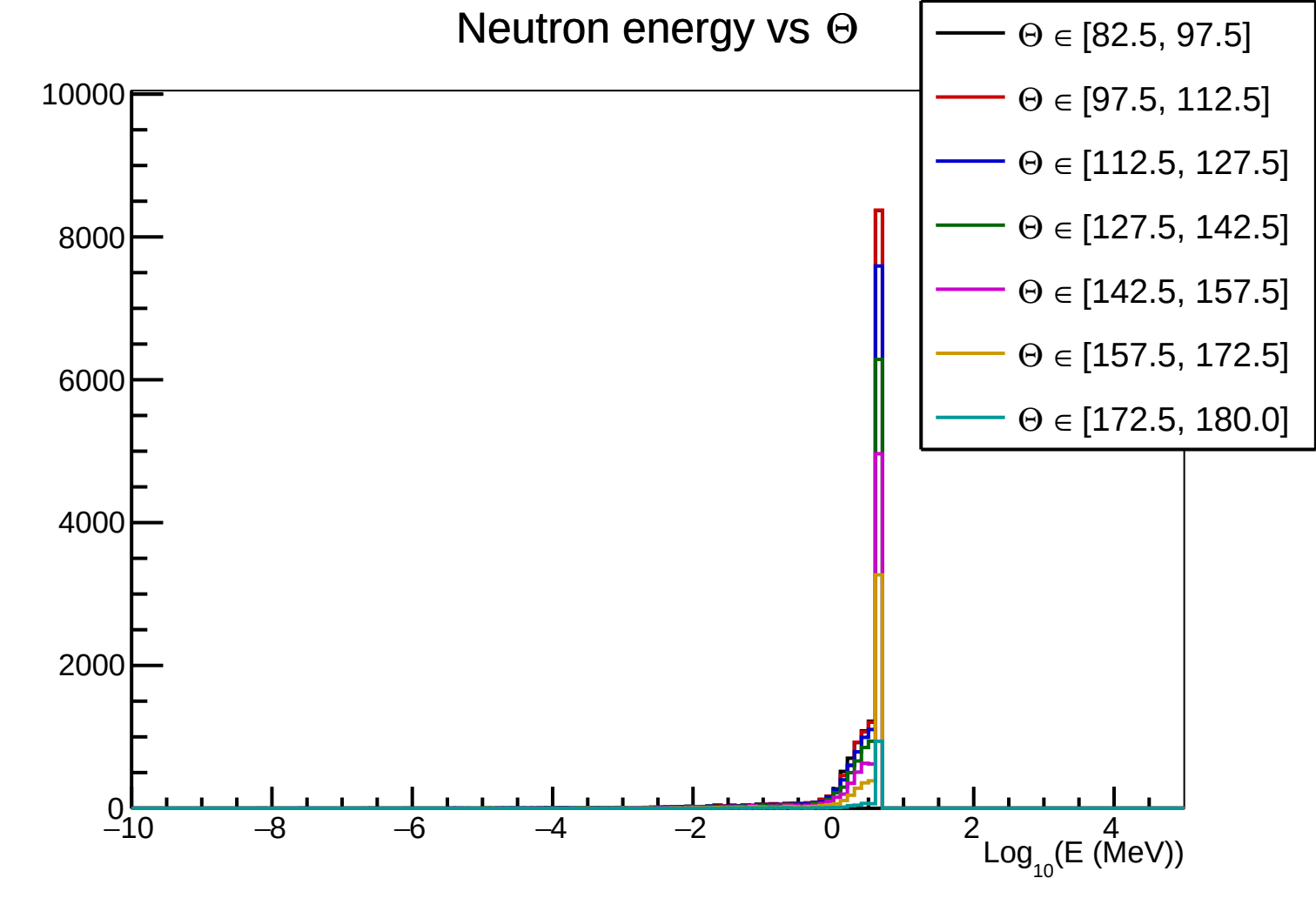

Neutron angular distribution
hNeutronCosTh
Entries 99999
Mean 0.0007318
Std Dev 0.5942
counts
1600
1500
1400
1300
1200
1100
1000
900
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ

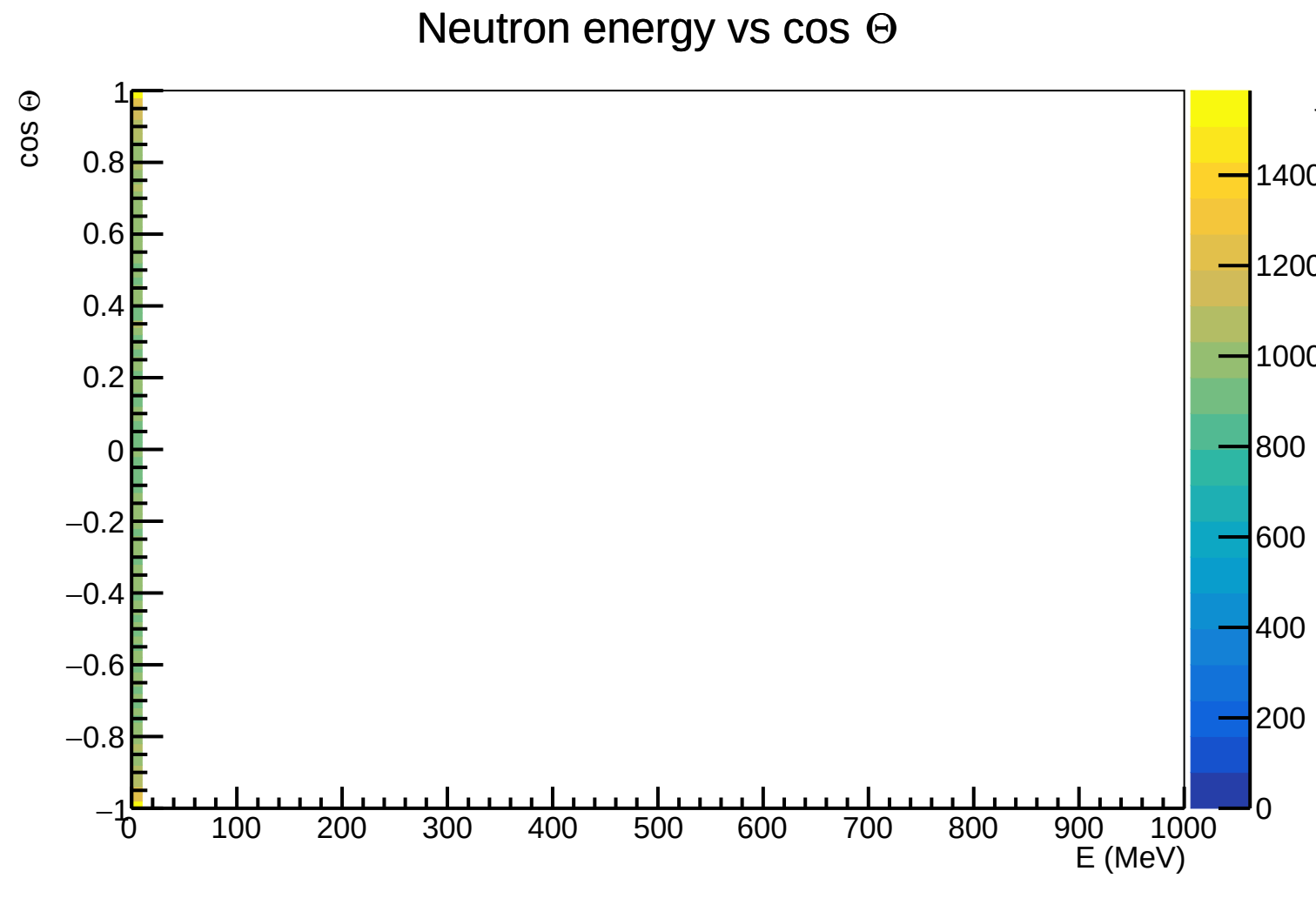

Neutron angular distribution
φ
4
3
2
1
0
−1
−2
−3
−4
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ
40
35
30
25
20
15
10
5
0

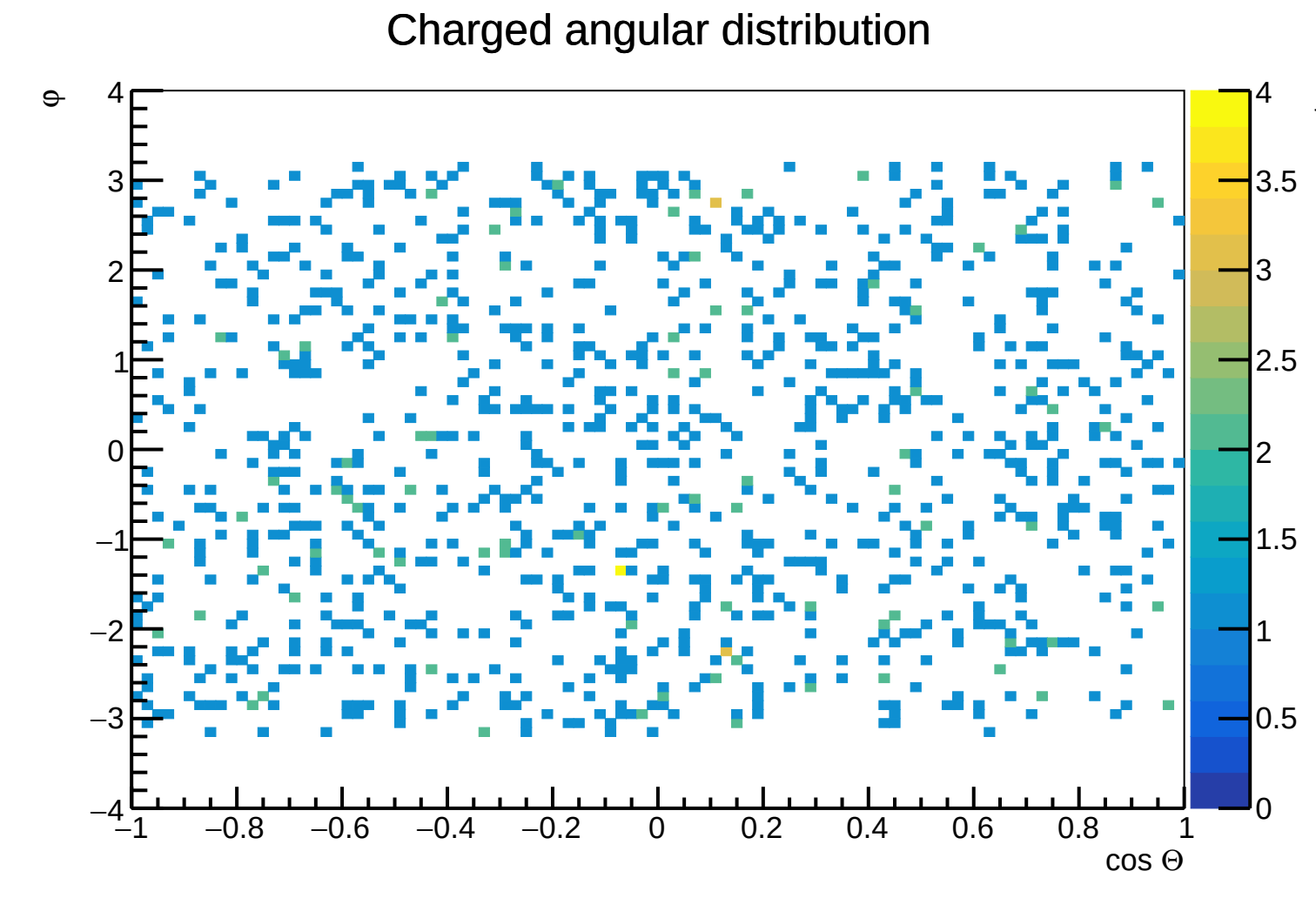

Neutron energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))
10^3
10^2
10
1

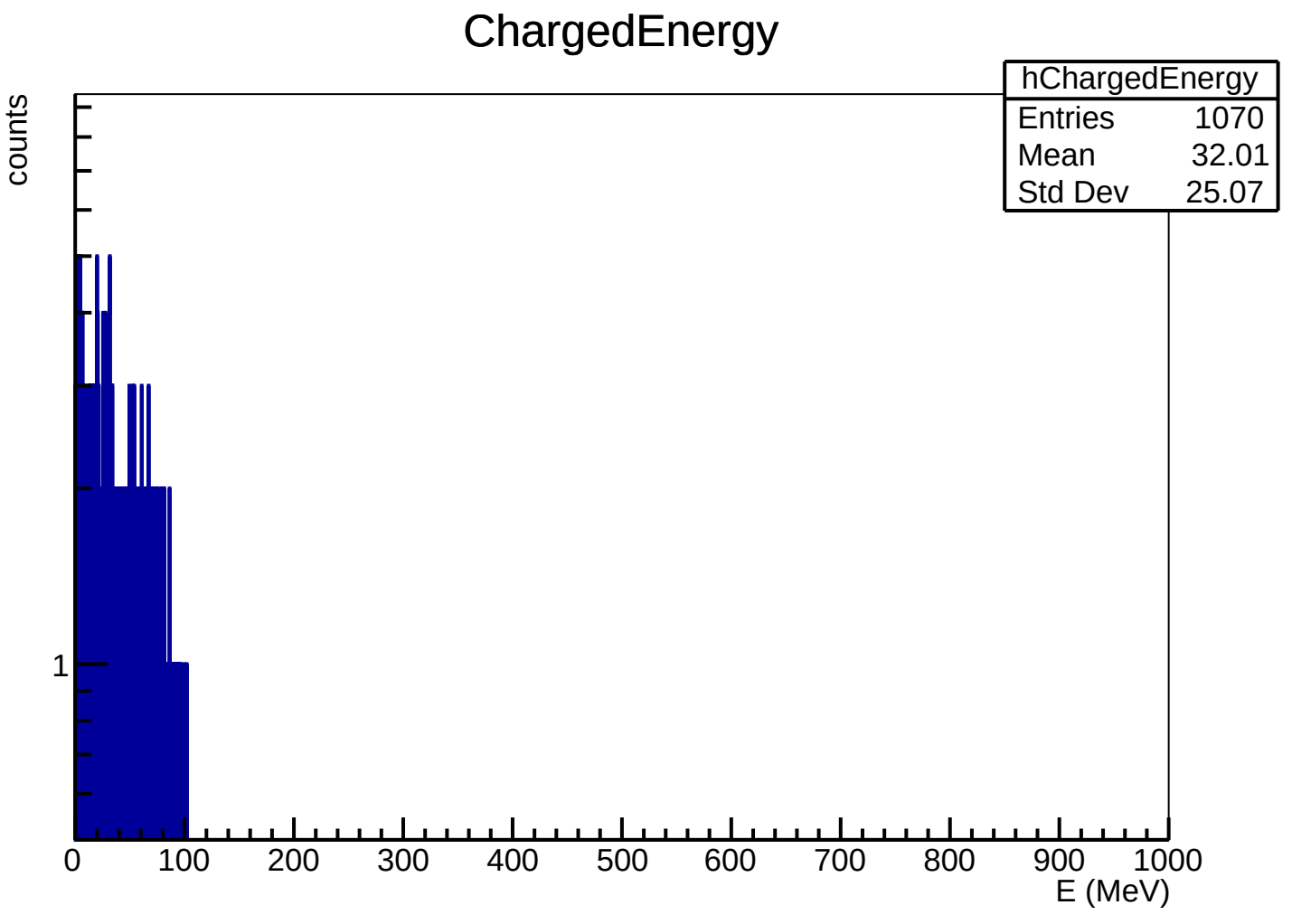

Neutron energy vs Θ
Θ (degrees)
180
160
140
120
100
80
60
40
20
0
–10
–8
–6
–4
–2
0
2
4
Log10(E (MeV))
10^3
10^2
10
1

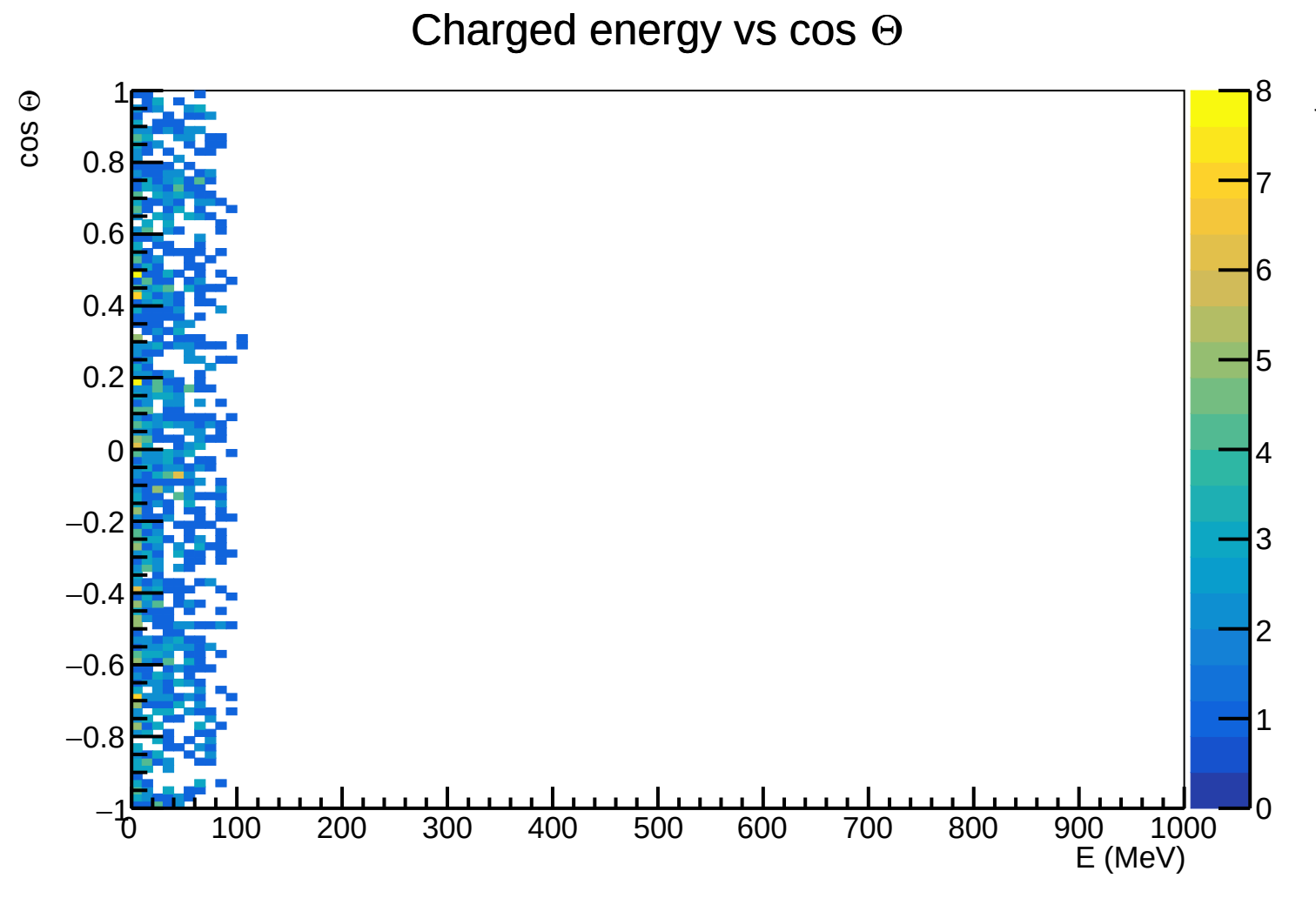

Neutron energy vs Θ
Θ ∈ [0.0, 7.5]
Θ ∈ [7.5, 22.5]
Θ ∈ [22.5, 37.5]
Θ ∈ [37.5, 52.5]
Θ ∈ [52.5, 67.5]
Θ ∈ [67.5, 82.5]
Θ ∈ [82.5, 97.5]
10000
8000
6000
4000
2000
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

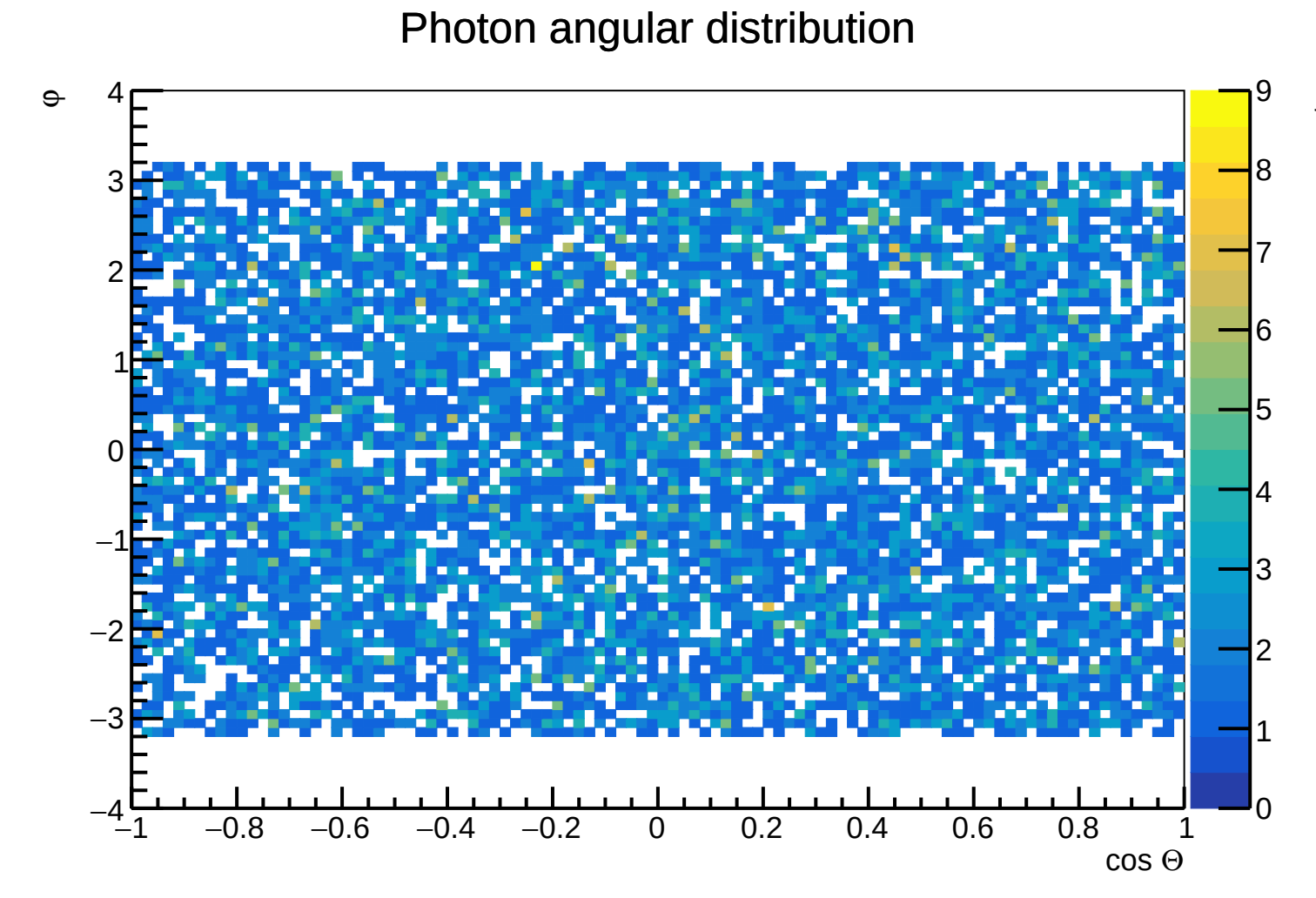

Neutron energy vs Θ
Θ ∈ [82.5, 97.5]
Θ ∈ [97.5, 112.5]
Θ ∈ [112.5, 127.5]
Θ ∈ [127.5, 142.5]
Θ ∈ [142.5, 157.5]
Θ ∈ [157.5, 172.5]
Θ ∈ [172.5, 180.0]
10000
8000
6000
4000
2000
0
−10
−8
−6
−4
−2
0
2
4
Log10(E (MeV))

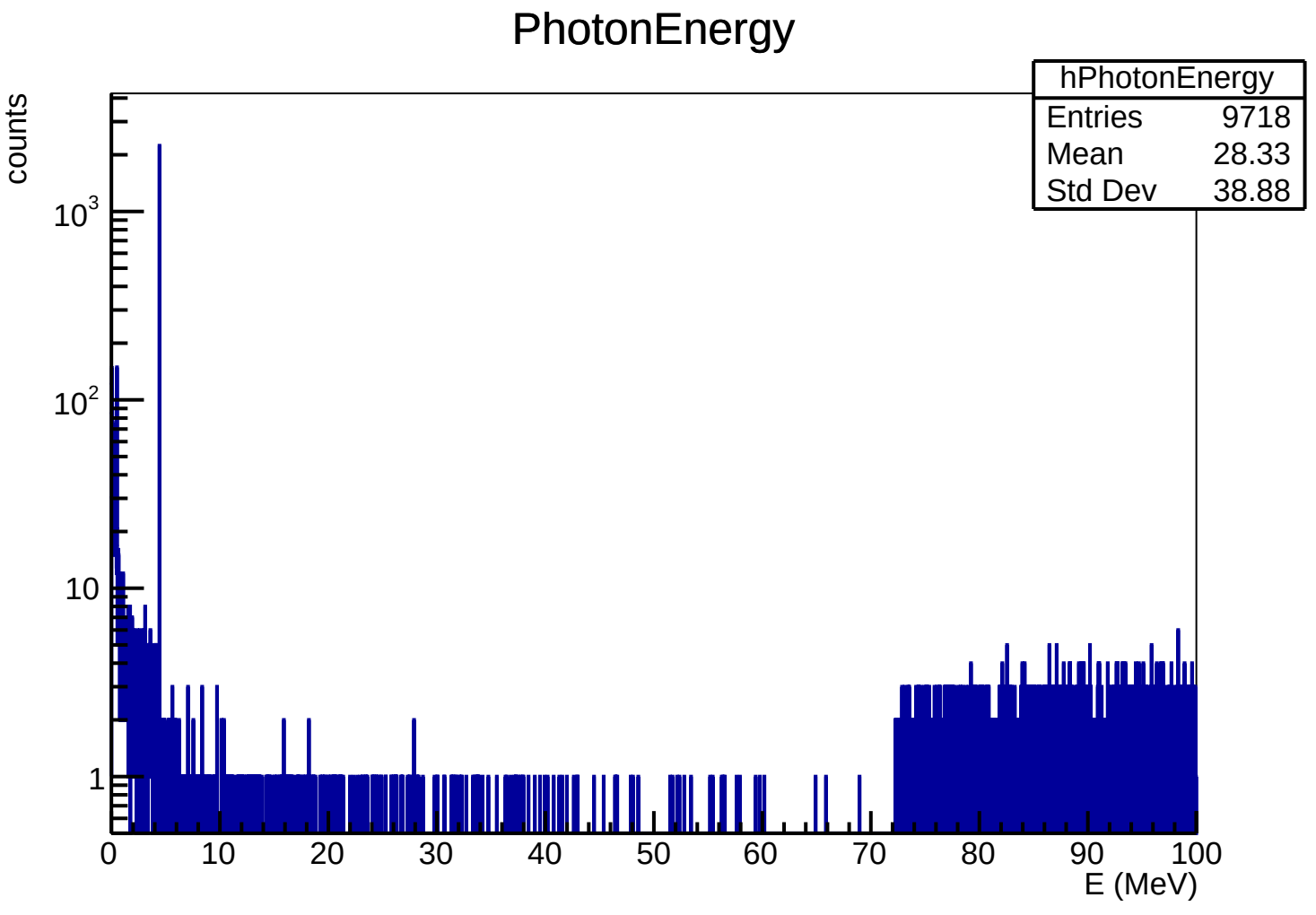

Neutron energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)
1400
1200
1000
800
600
400
200
0

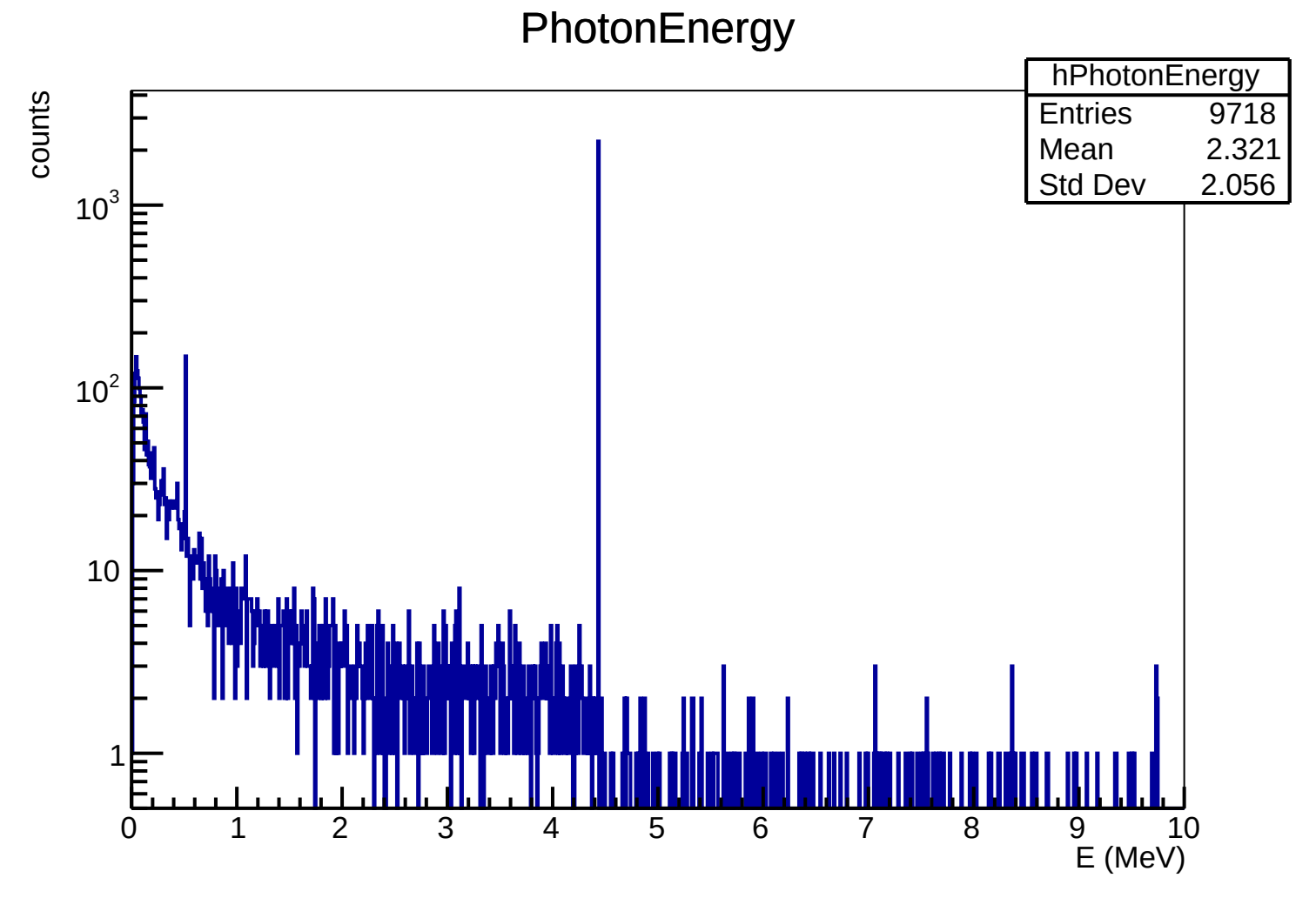

Charged angular distribution
φ
4
3
2
1
0
−1
−2
−3
−4
−1
−0.8
−0.6
−0.4
−0.2
0
0.2
0.4
0.6
0.8
1
cos Θ
4
3.5
3
2.5
2
1.5
1
0.5
0

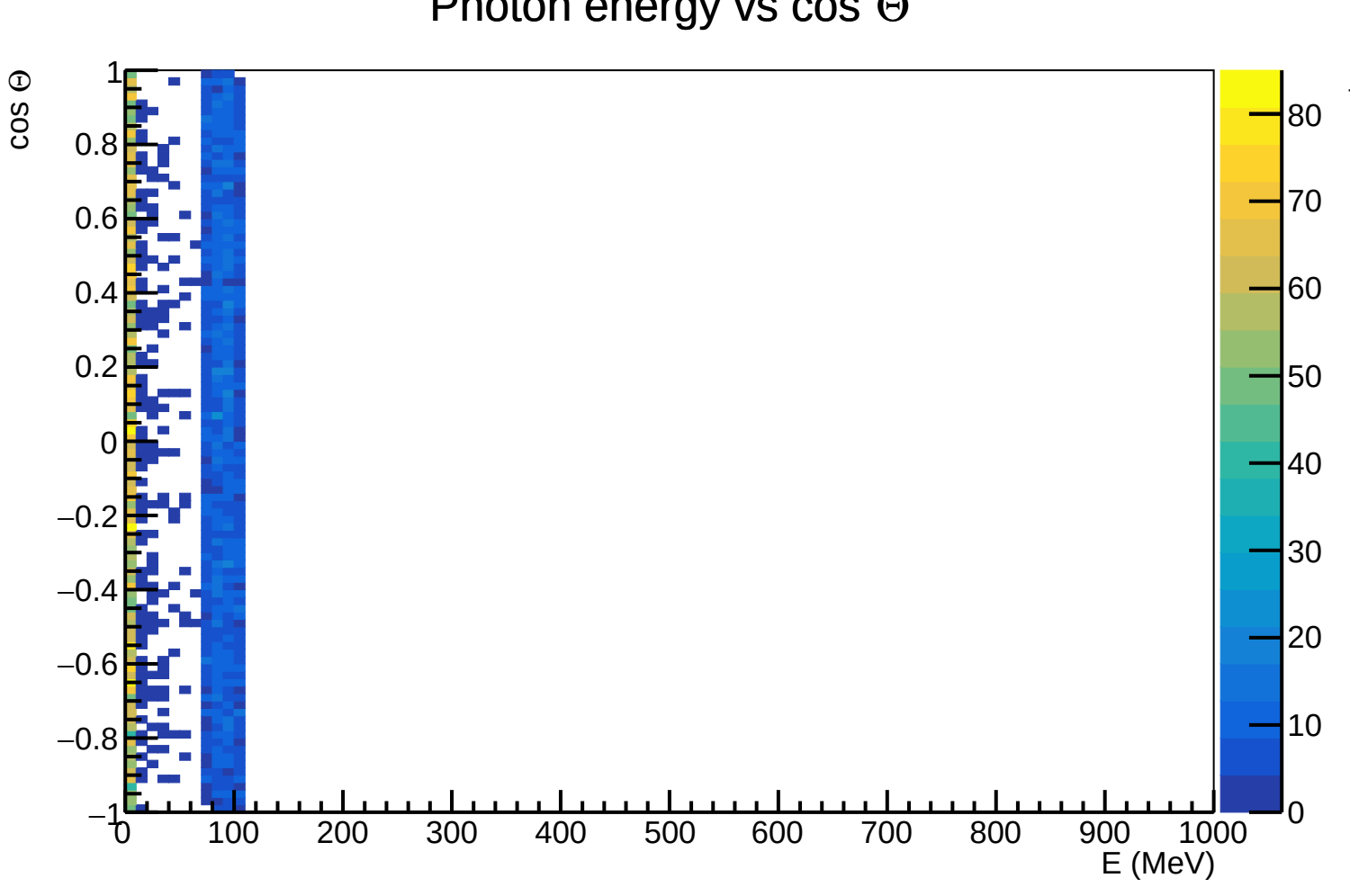

ChargedEnergy
hChargedEnergy
Entries 1070
Mean 32.01
Std Dev 25.07
counts
1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)

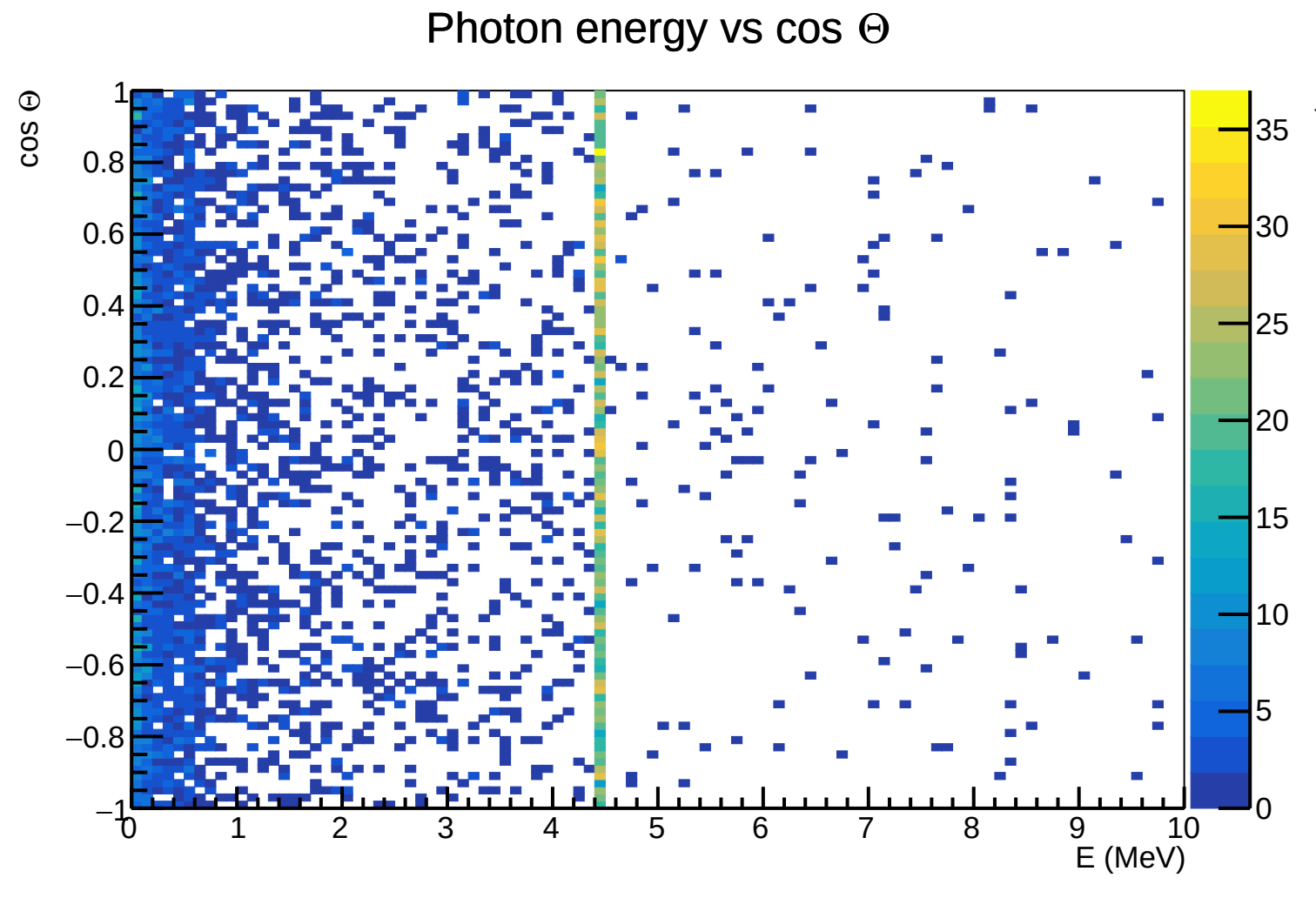

Charged energy vs cos Θ
cos Θ
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
0
100
200
300
400
500
600
700
800
900
1000
E (MeV)
8
7
6
5
4
3
2
1
0


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
9
8
7
6
5
4
3
2
1
0


PhotonEnergy
hPhotonEnergy
Entries 9718
Mean 28.33
Std Dev 38.88
counts
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
E (MeV)


PhotonEnergy
hPhotonEnergy
Entries 9718
Mean 2.321
Std Dev 2.056
counts
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)
80
70
60
50
40
30
20
10
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)
35
30
25
20
15
10
5
0