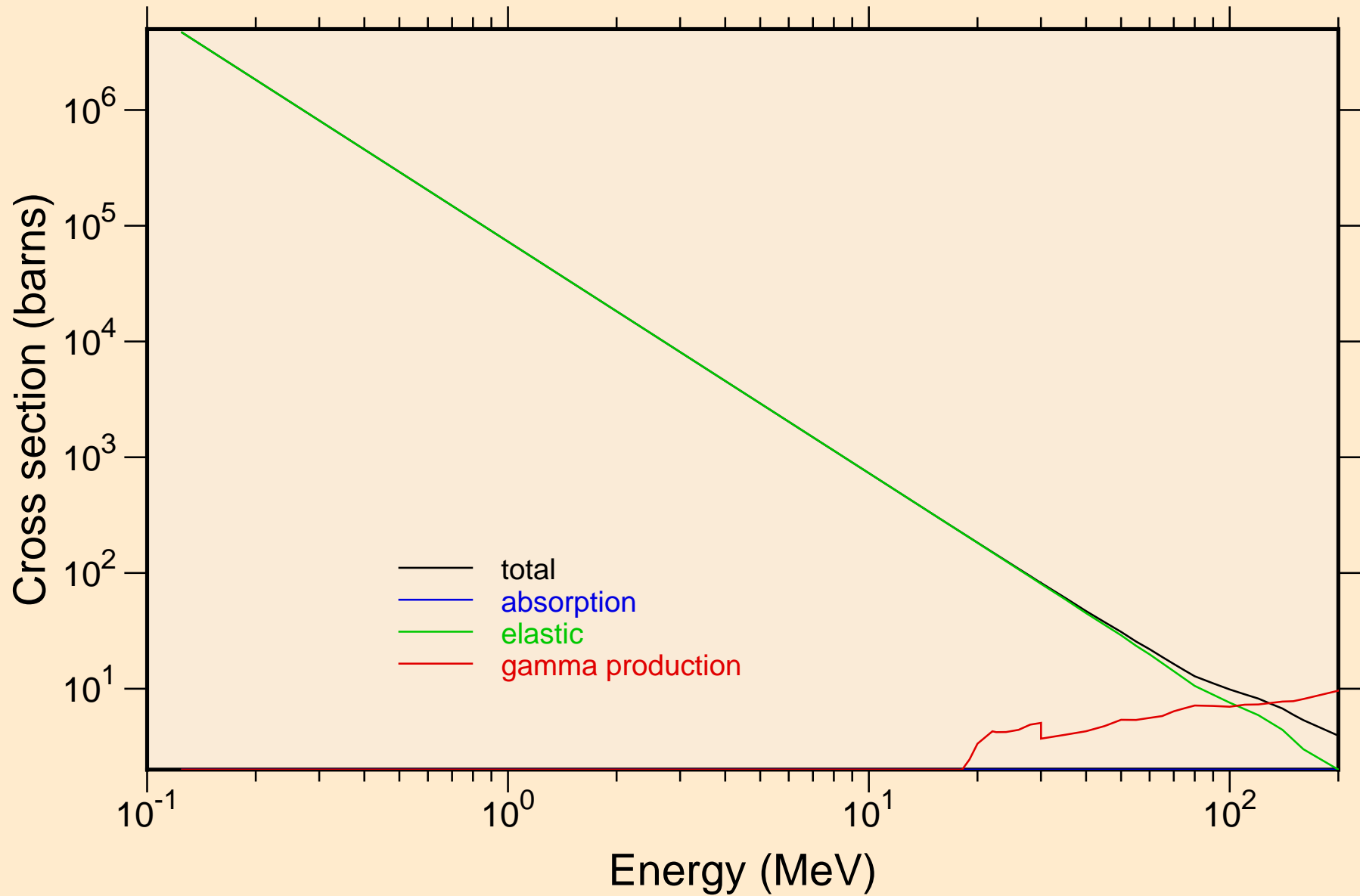
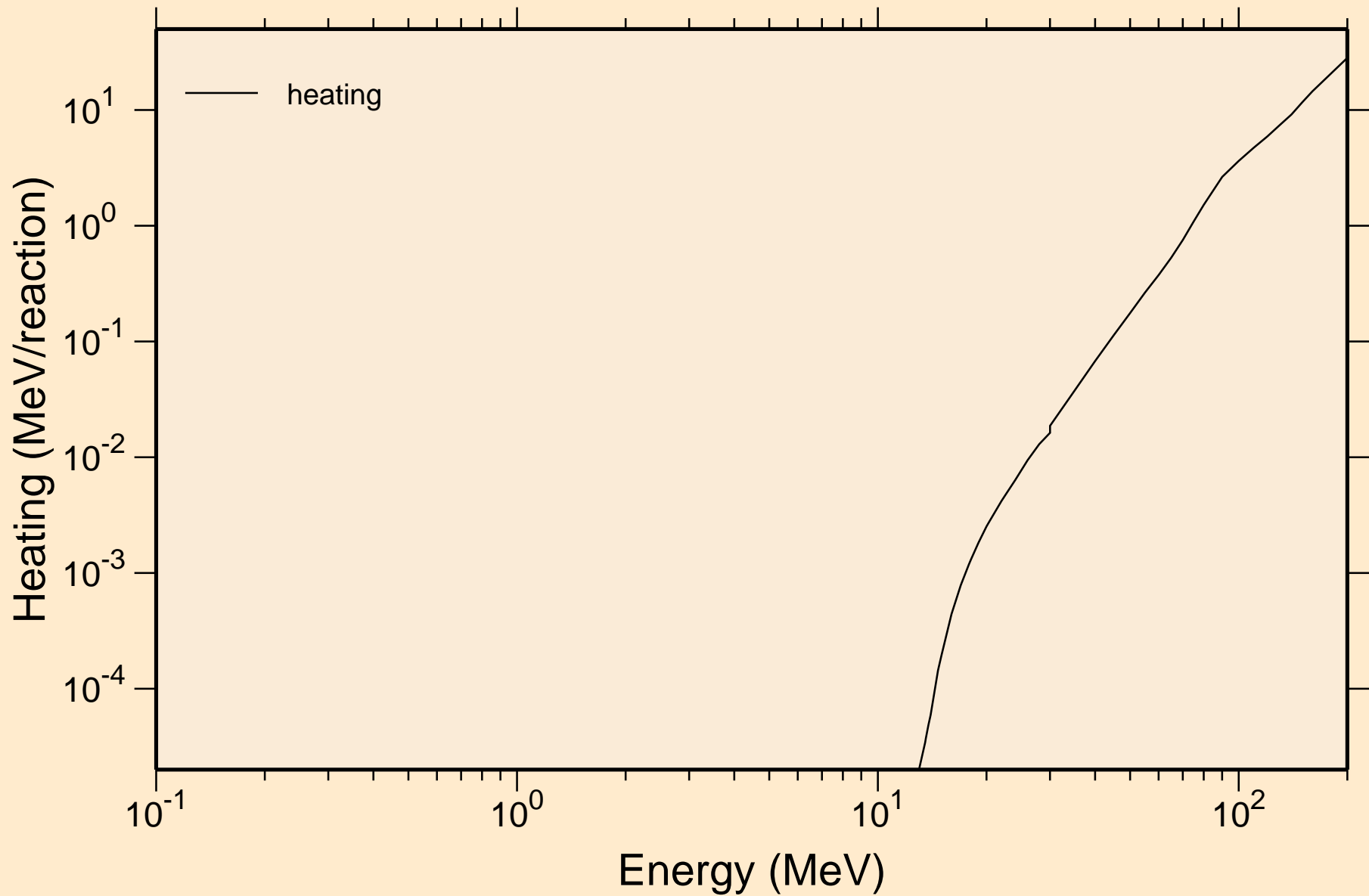


# I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

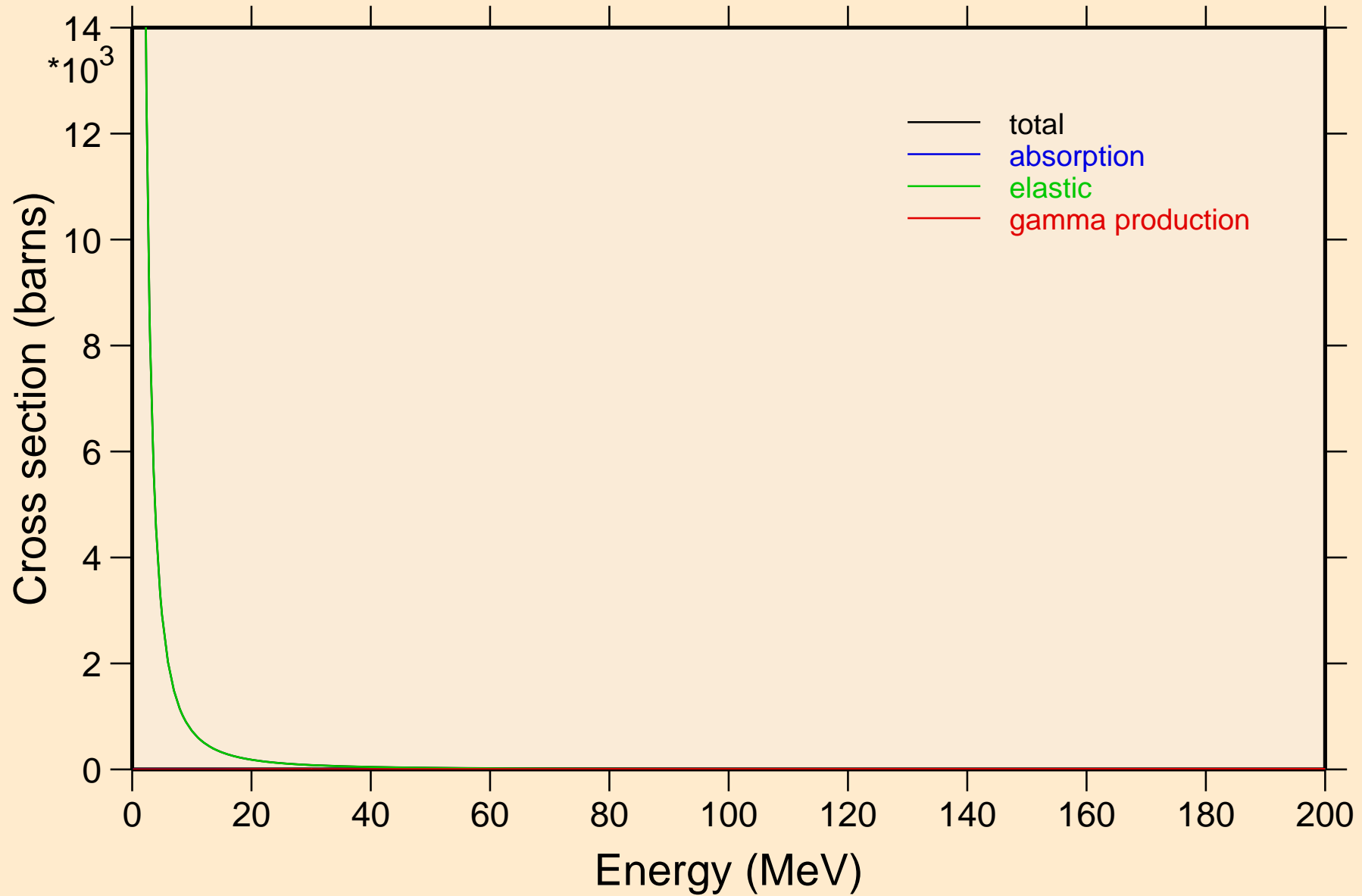


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Heating



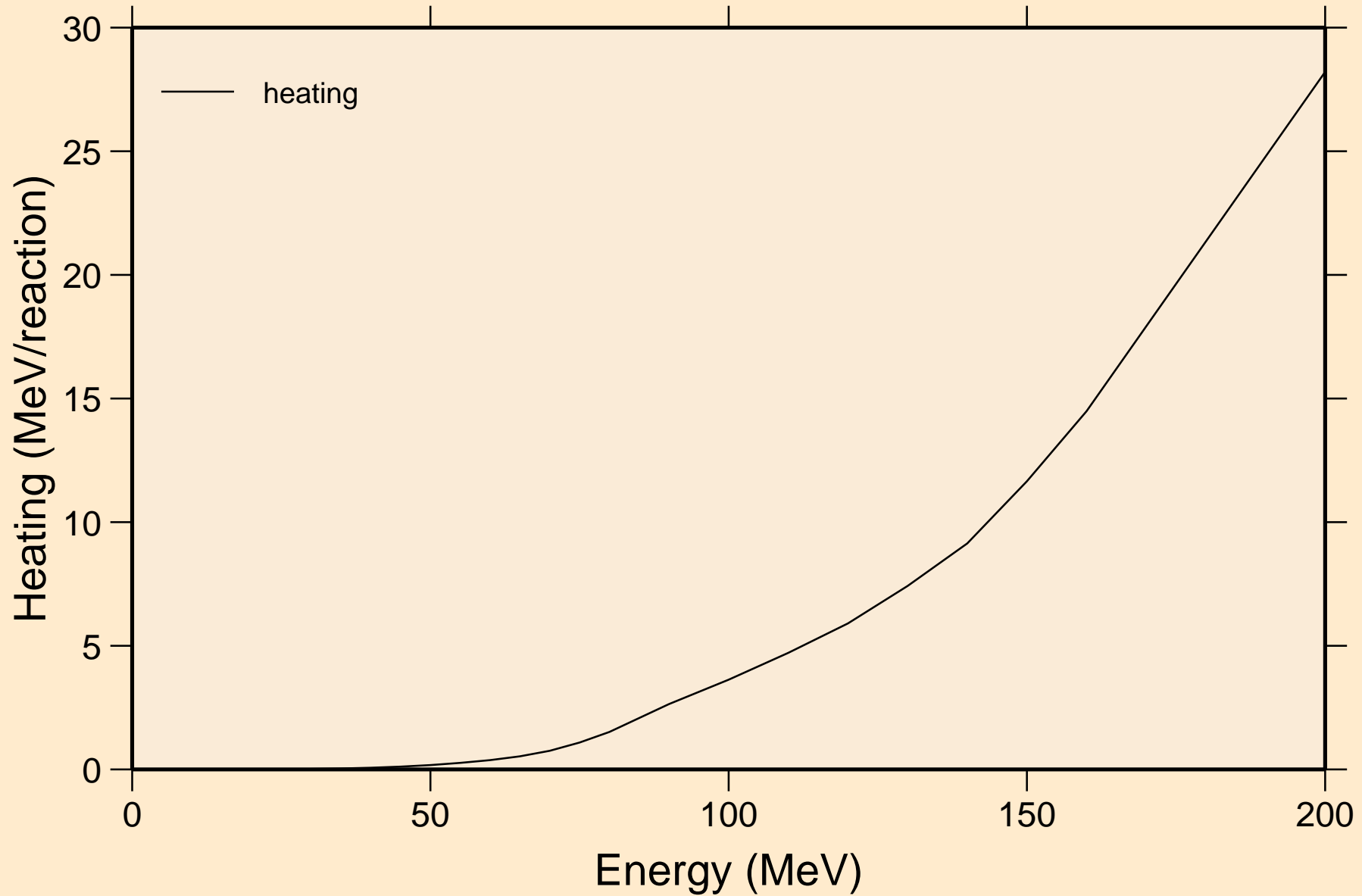
# I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

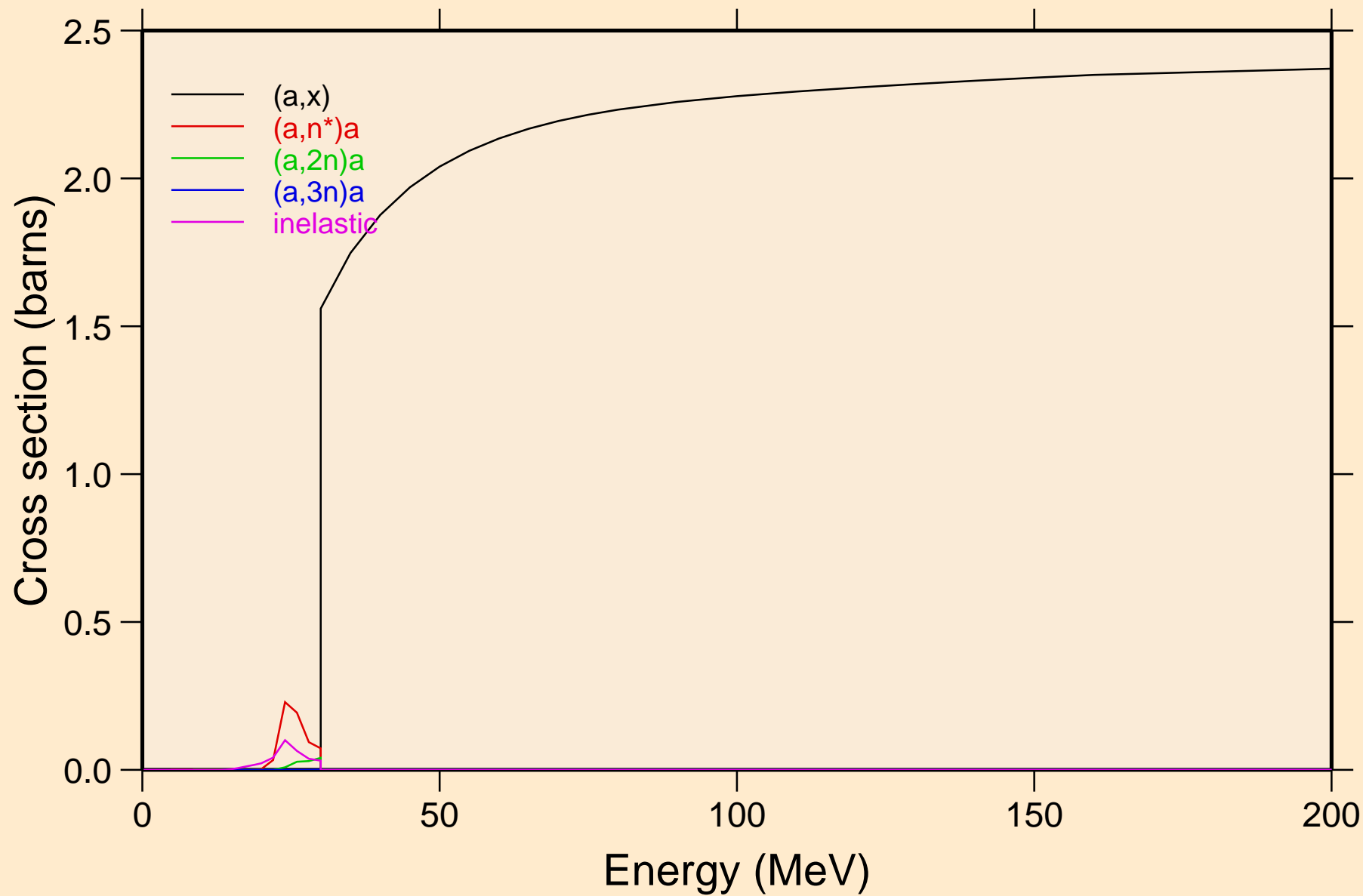


# I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

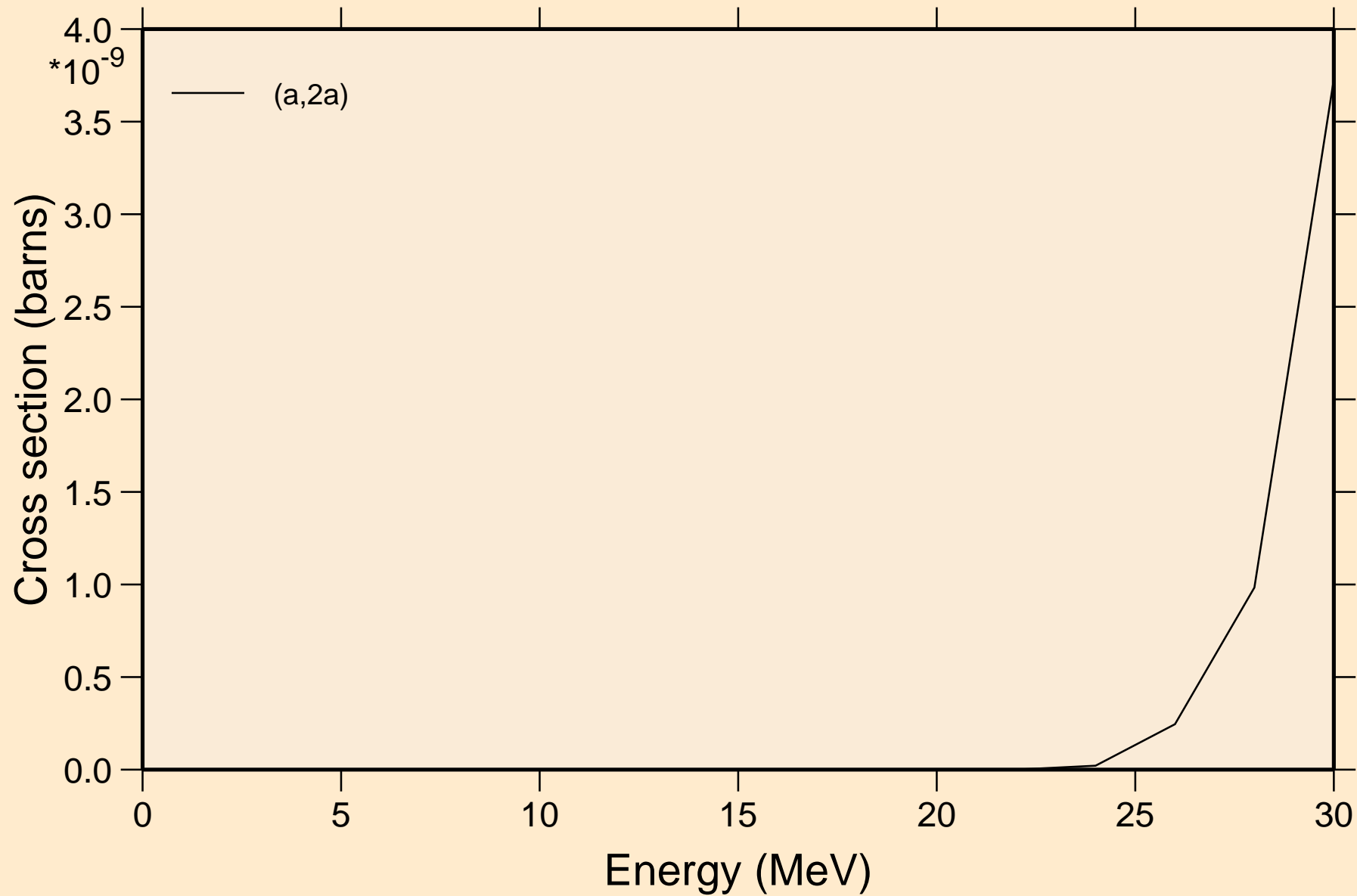
## Heating



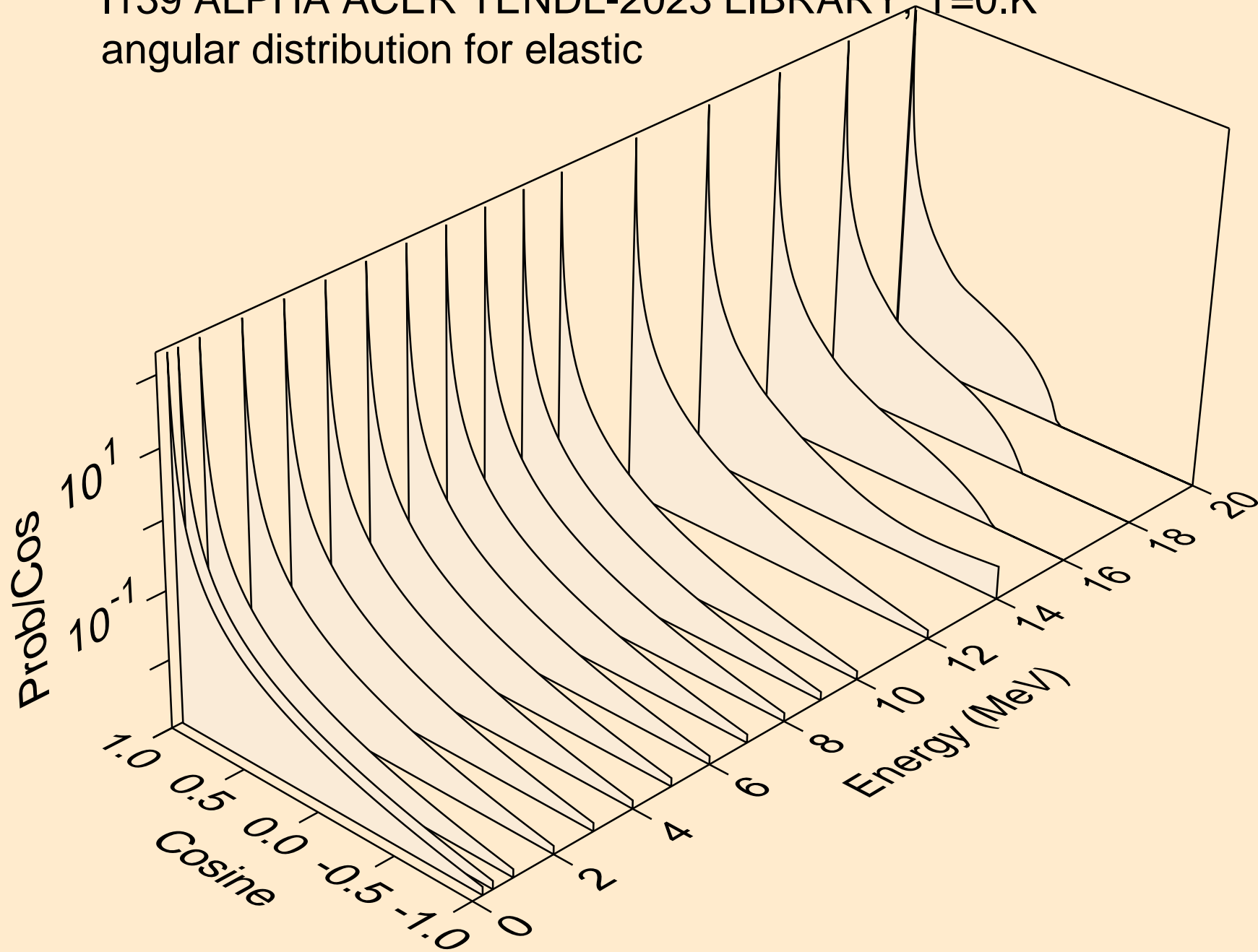
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



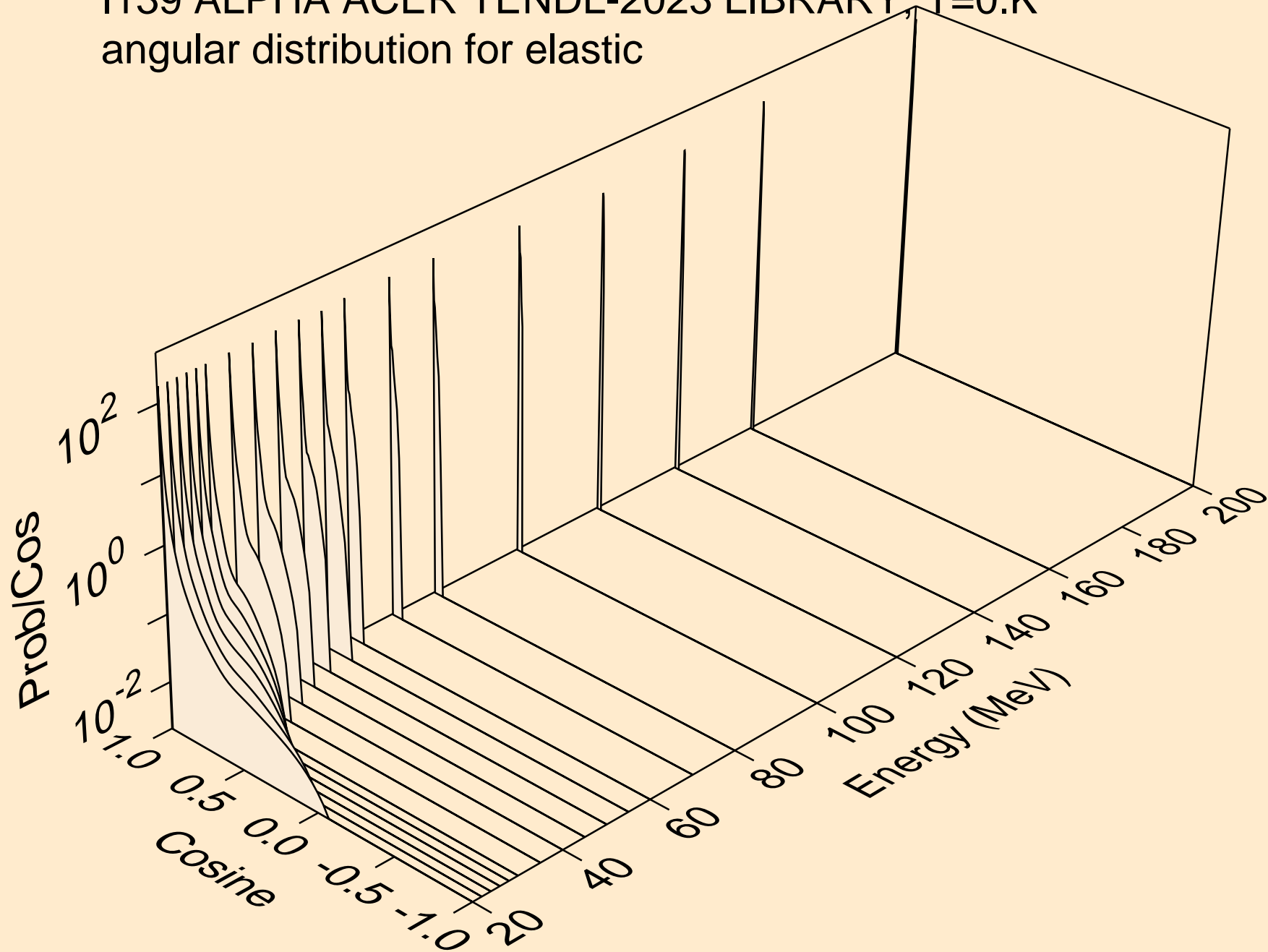
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



I139 ALPHA ACER TENDL-2023 LIBRARY · T=0.K  
angular distribution for elastic

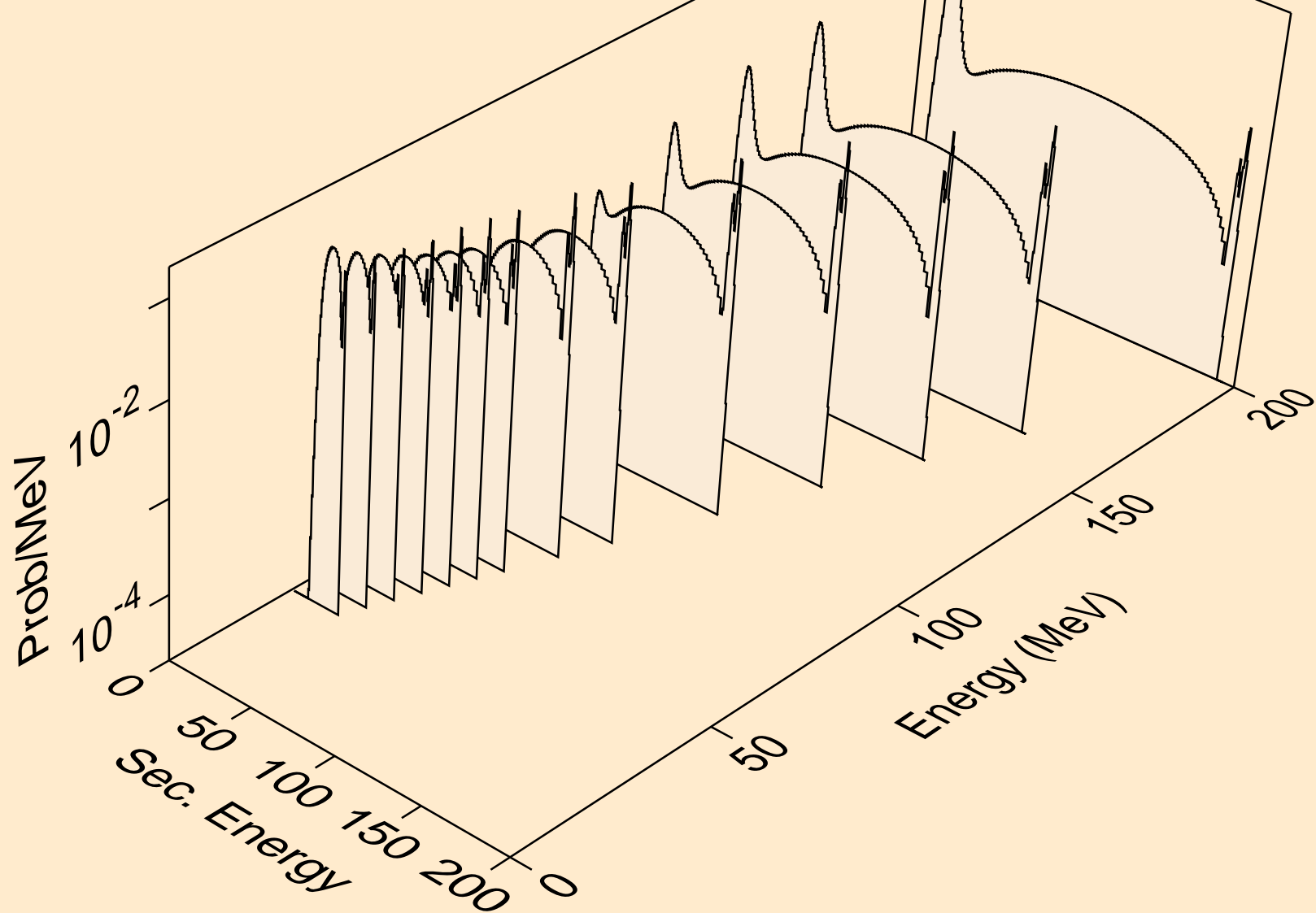


I139 ALPHA ACER TENDL-2023 LIBRARY: T=0.K  
angular distribution for elastic

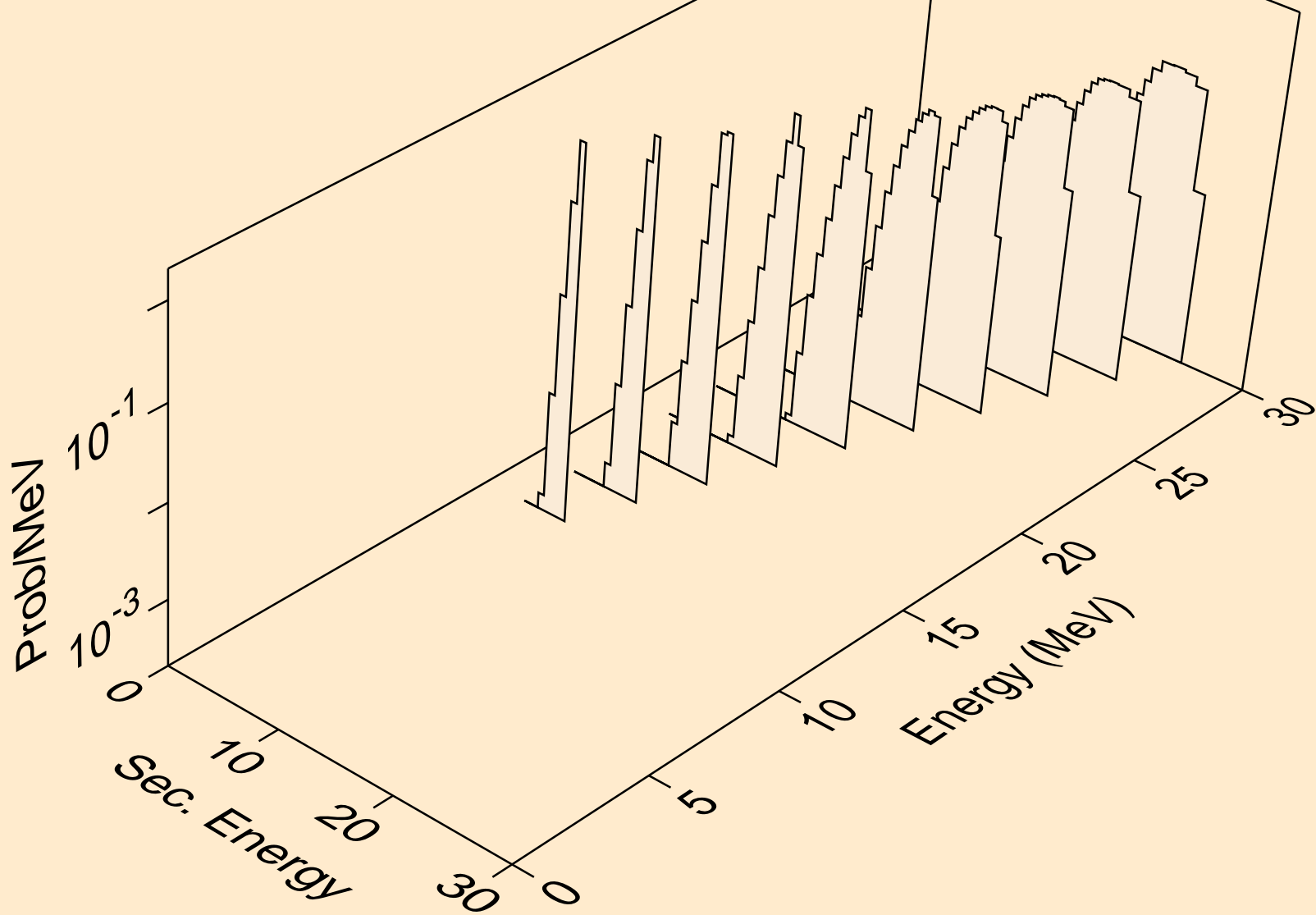




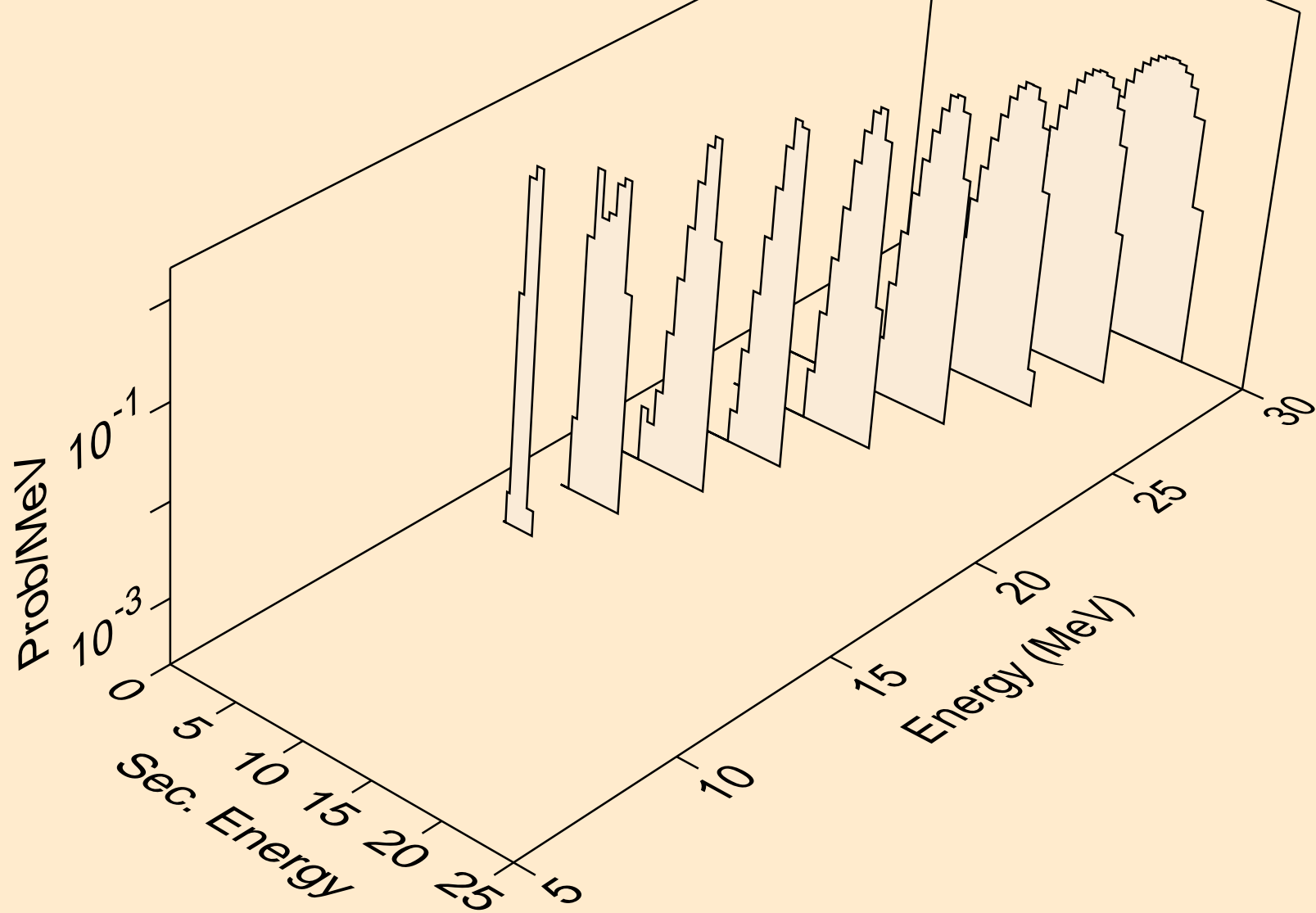
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,x)



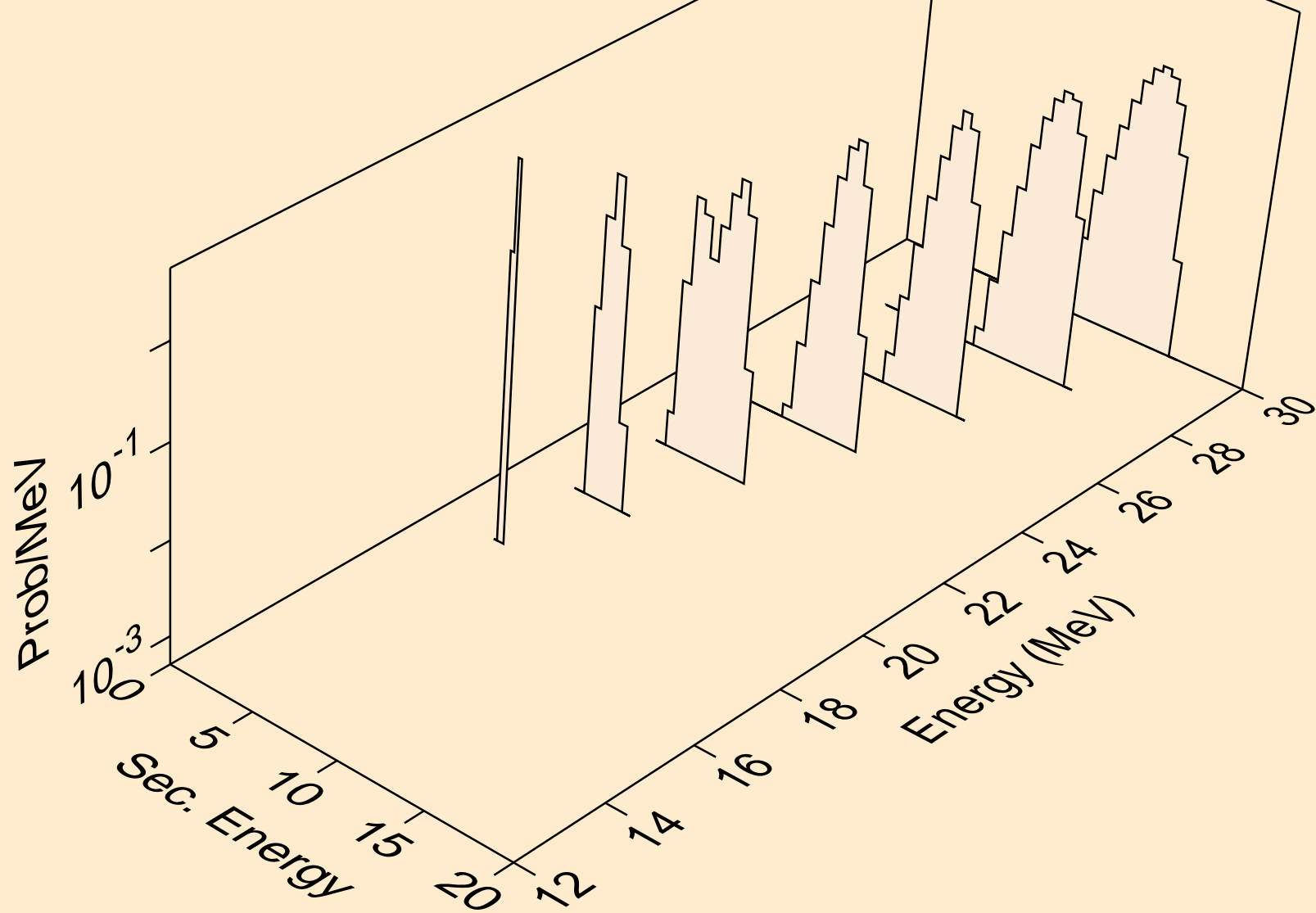
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



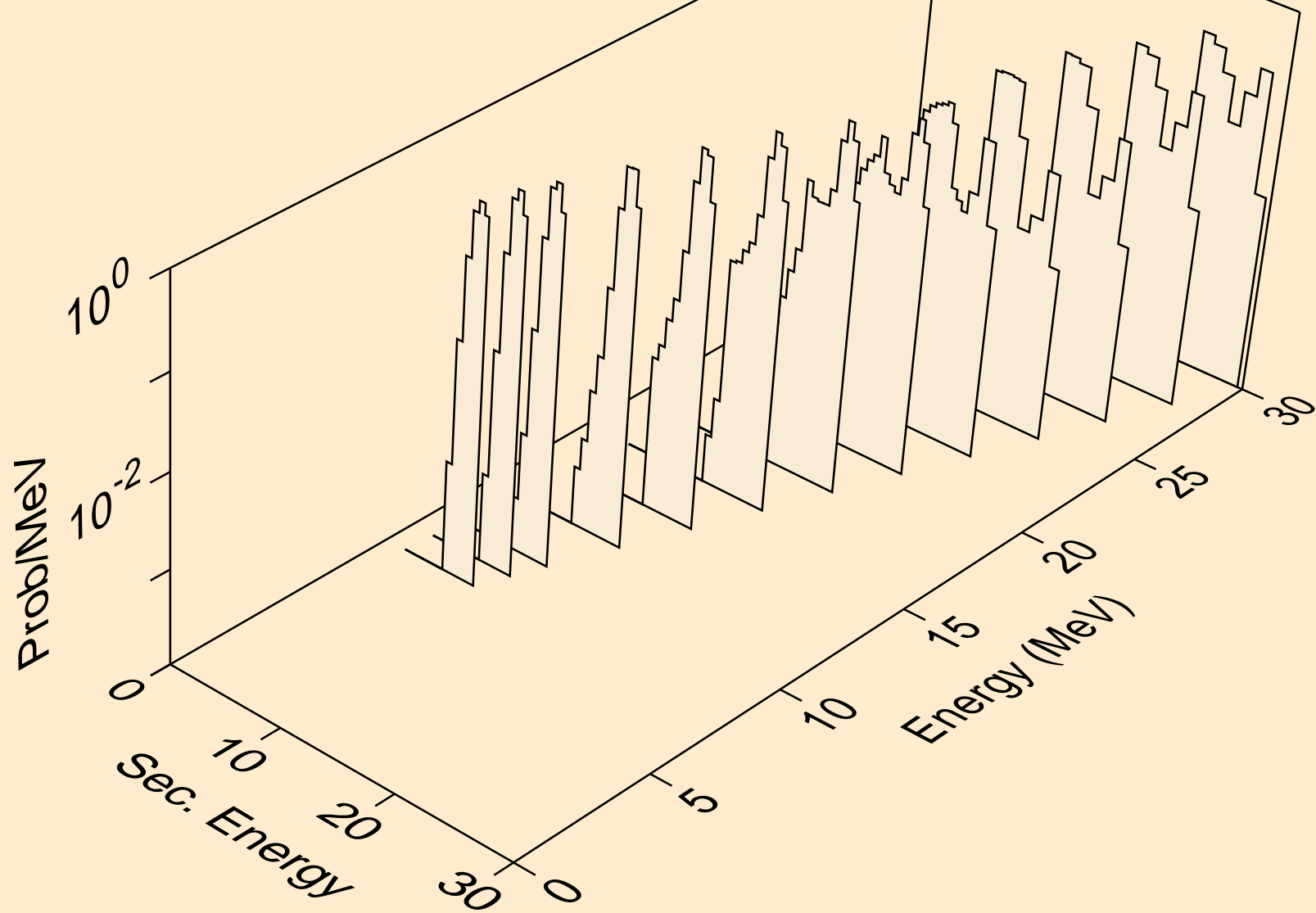
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2n)a



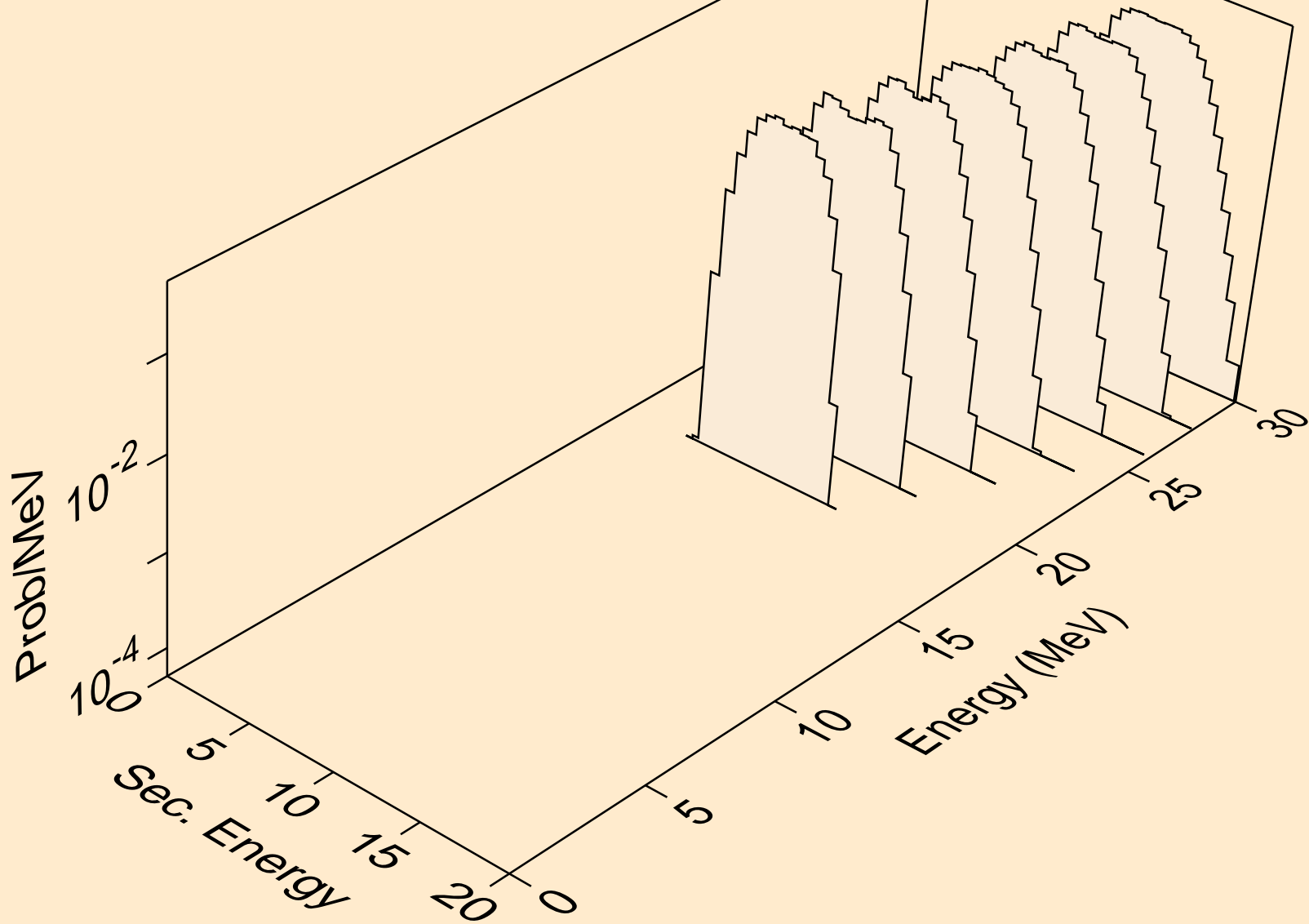
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,3n)a



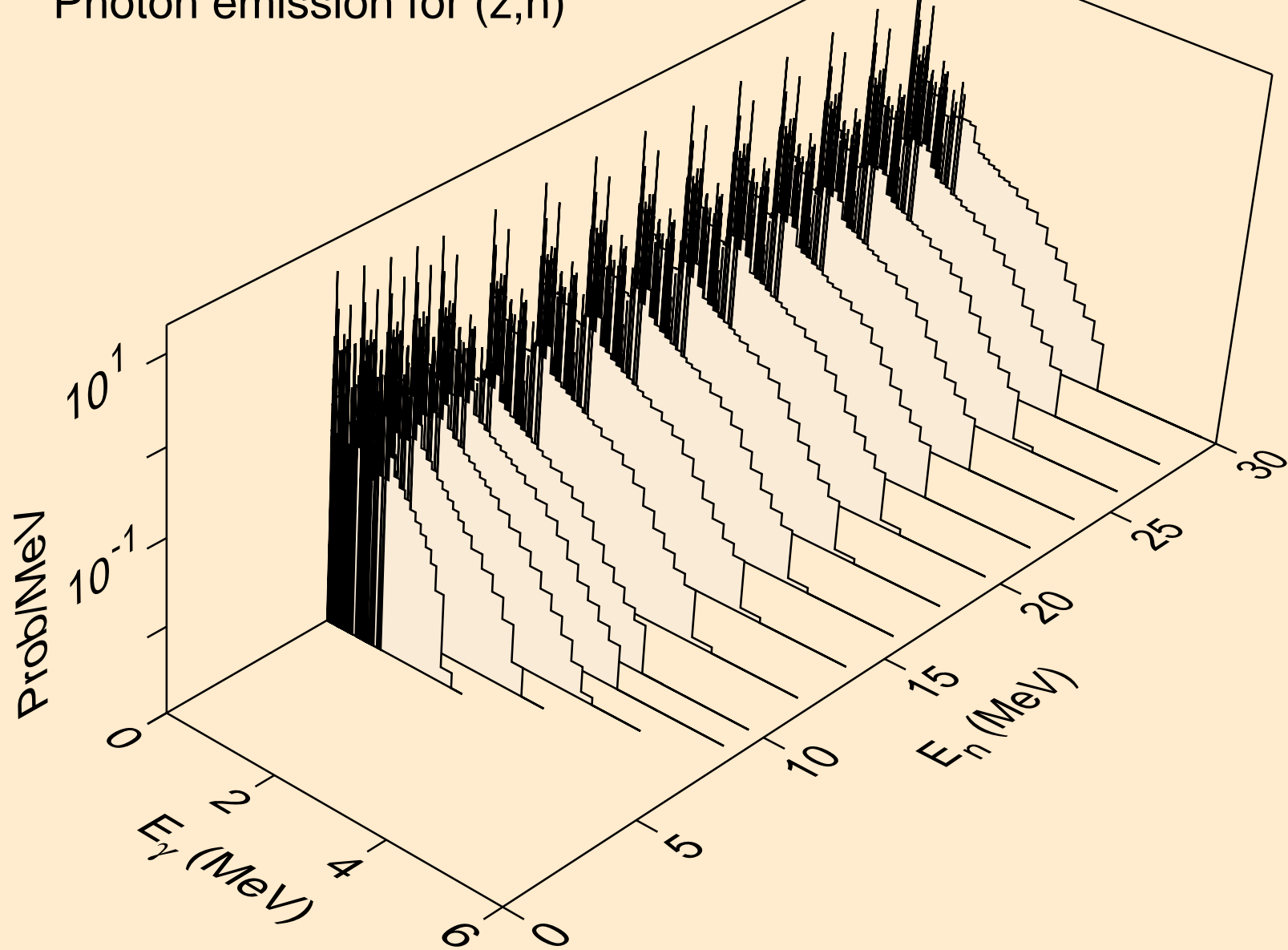
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for inelastic



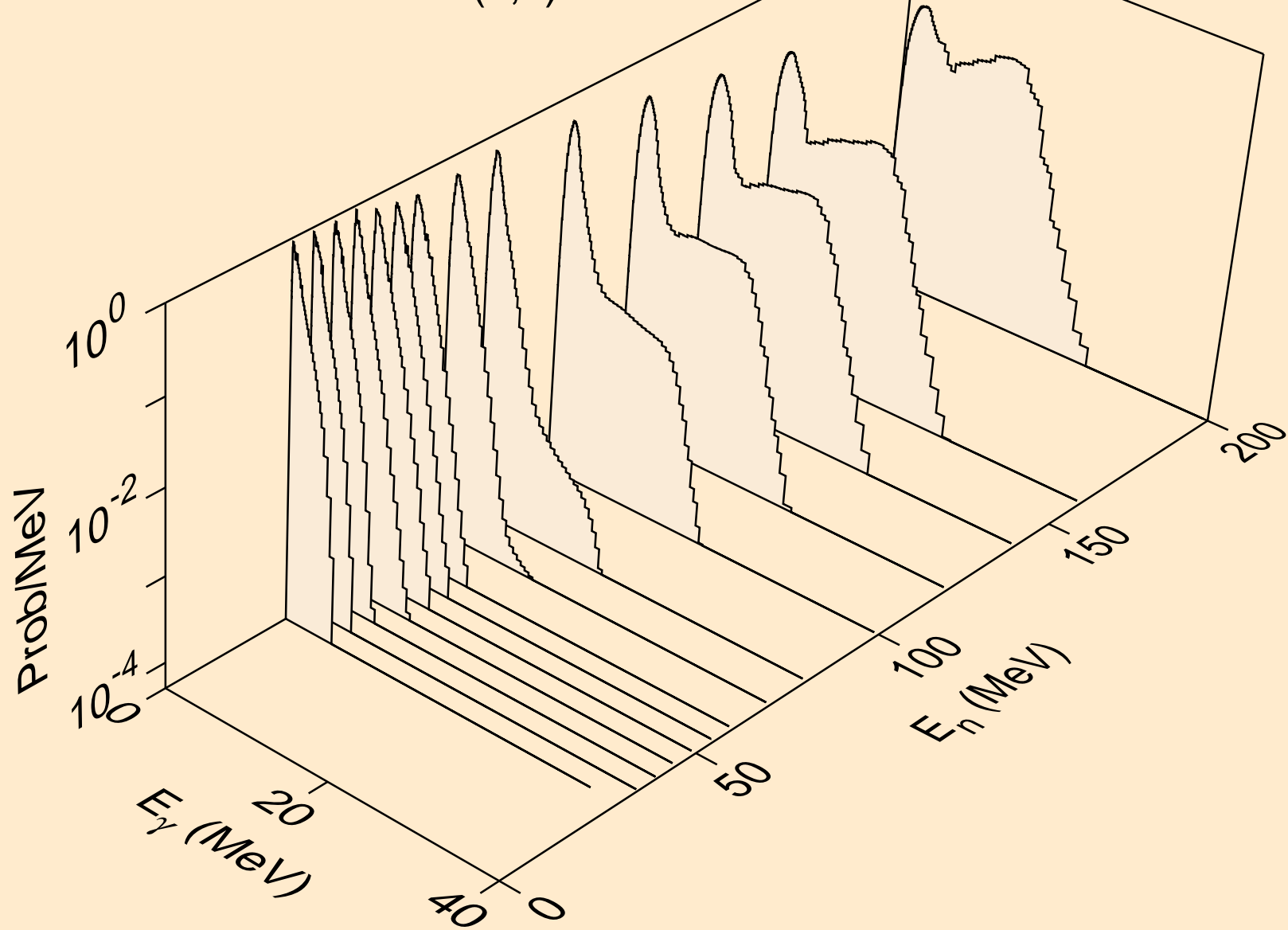
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2a)



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)

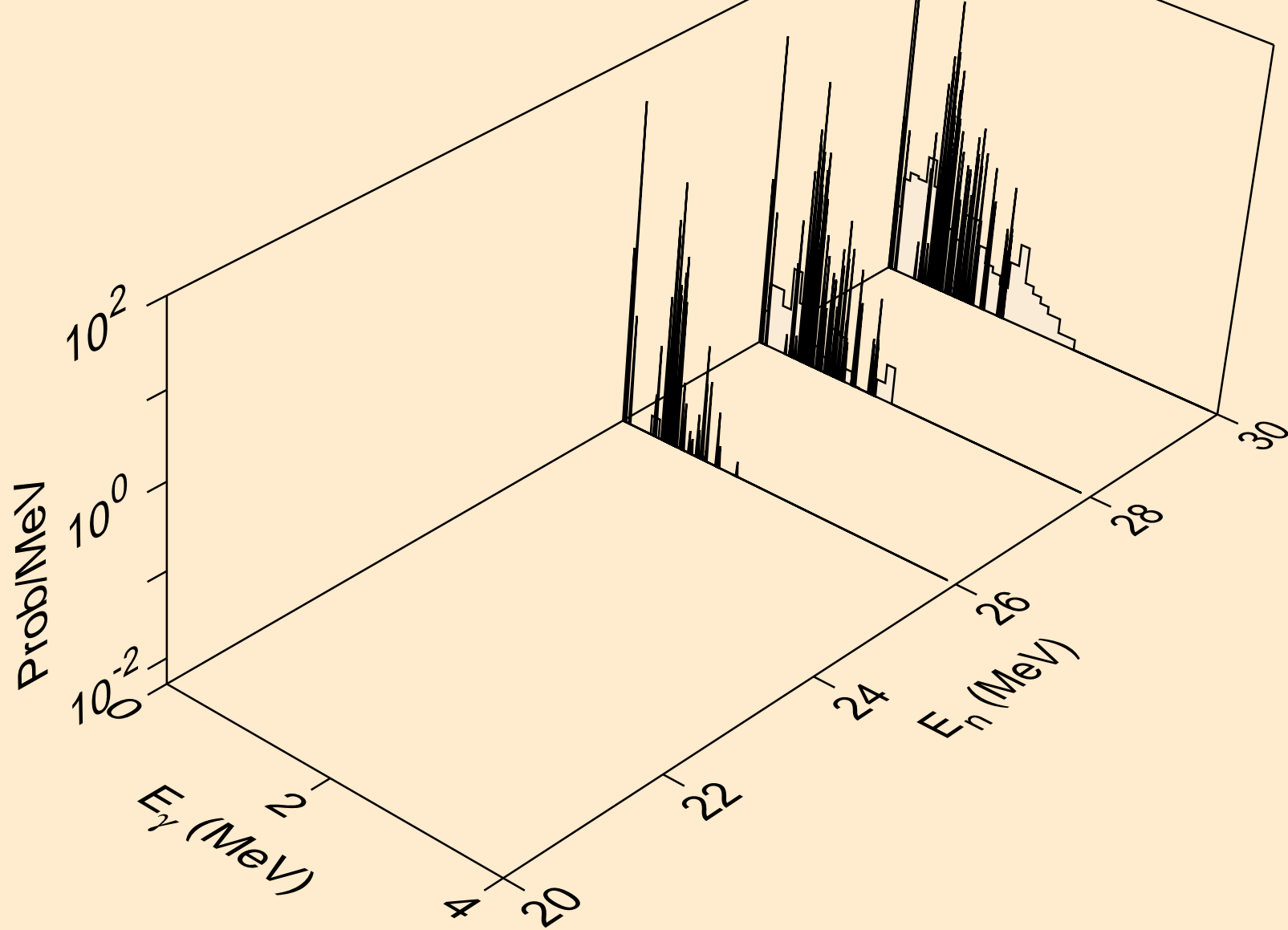


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)

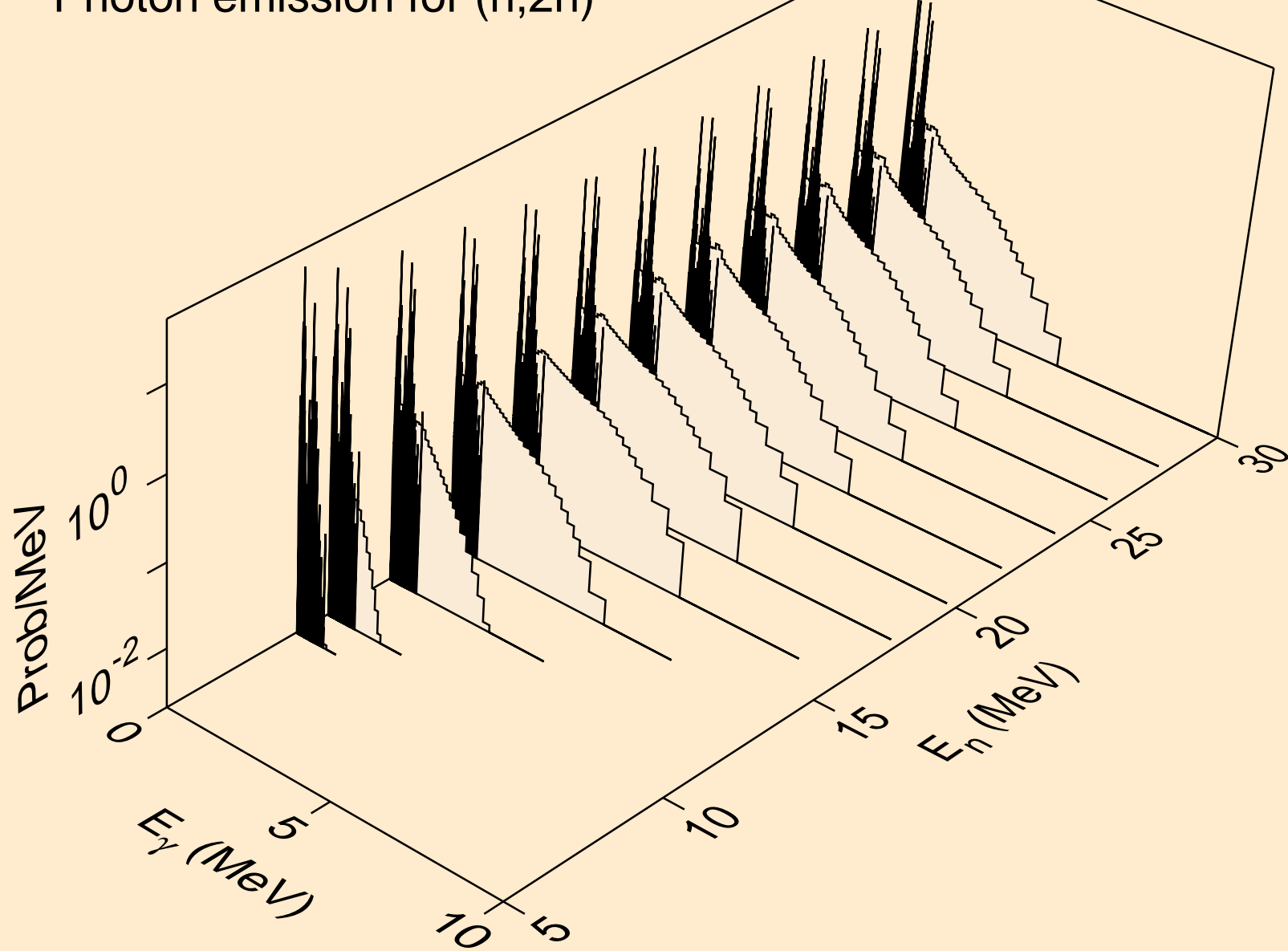




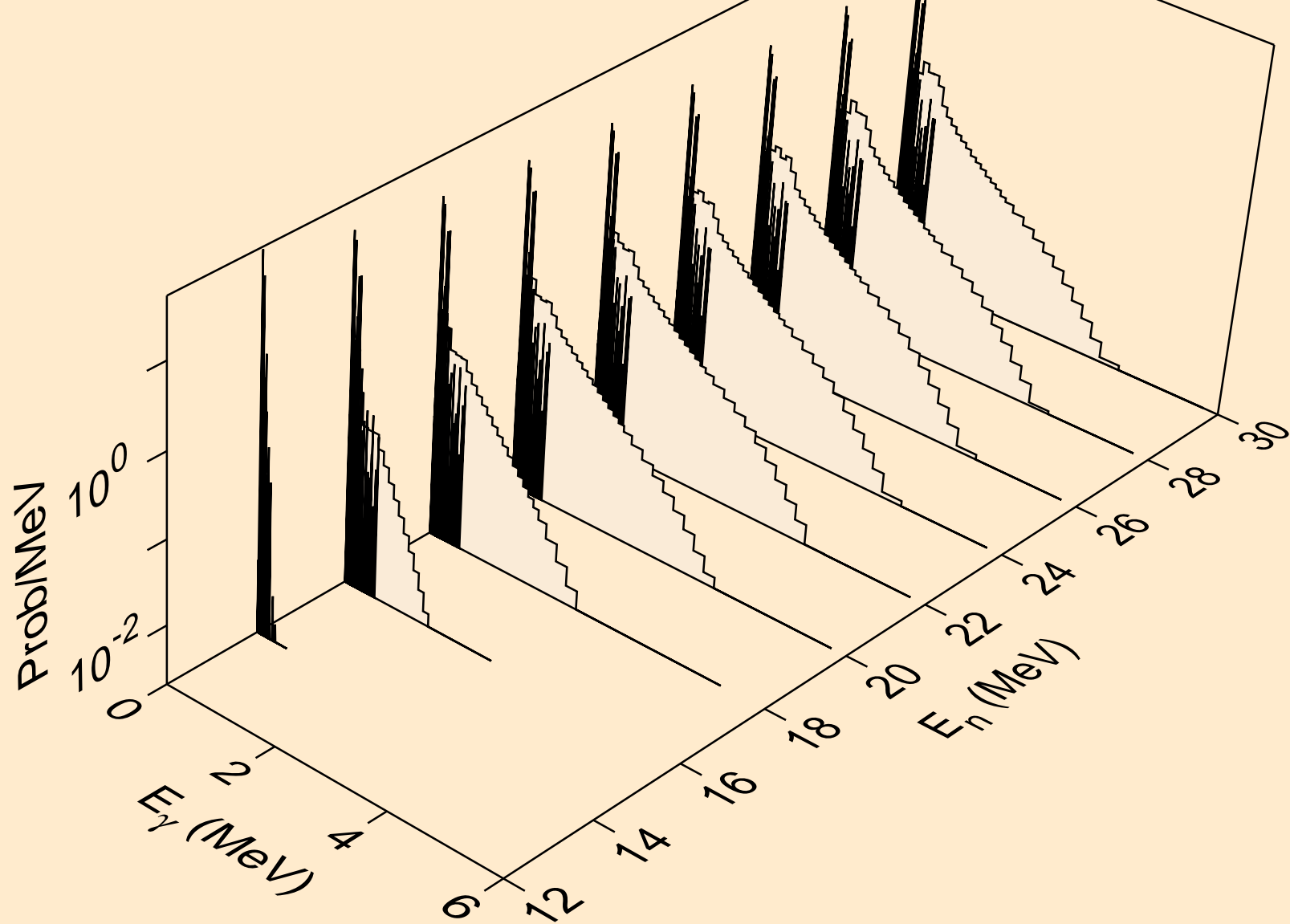
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



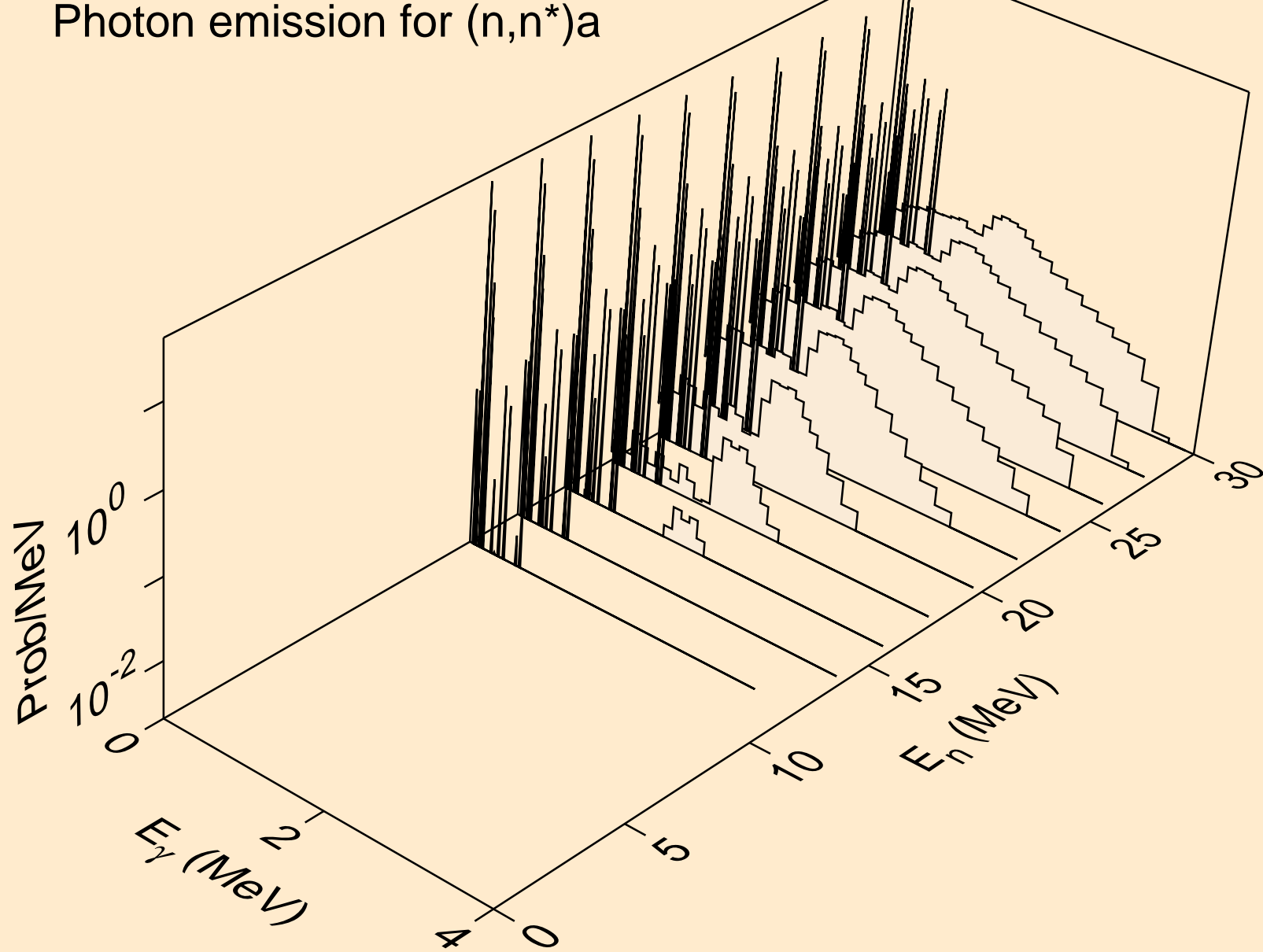
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



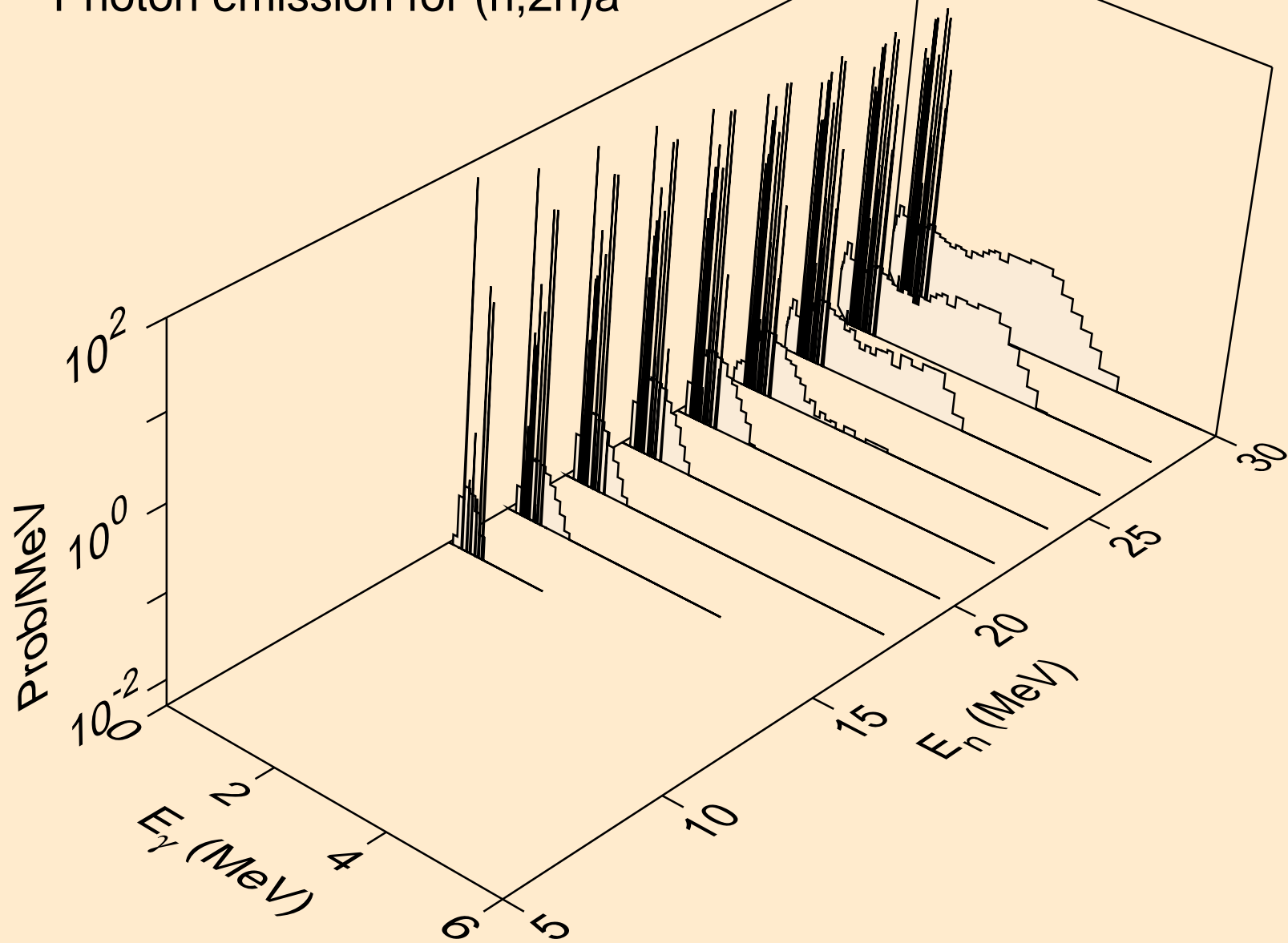
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



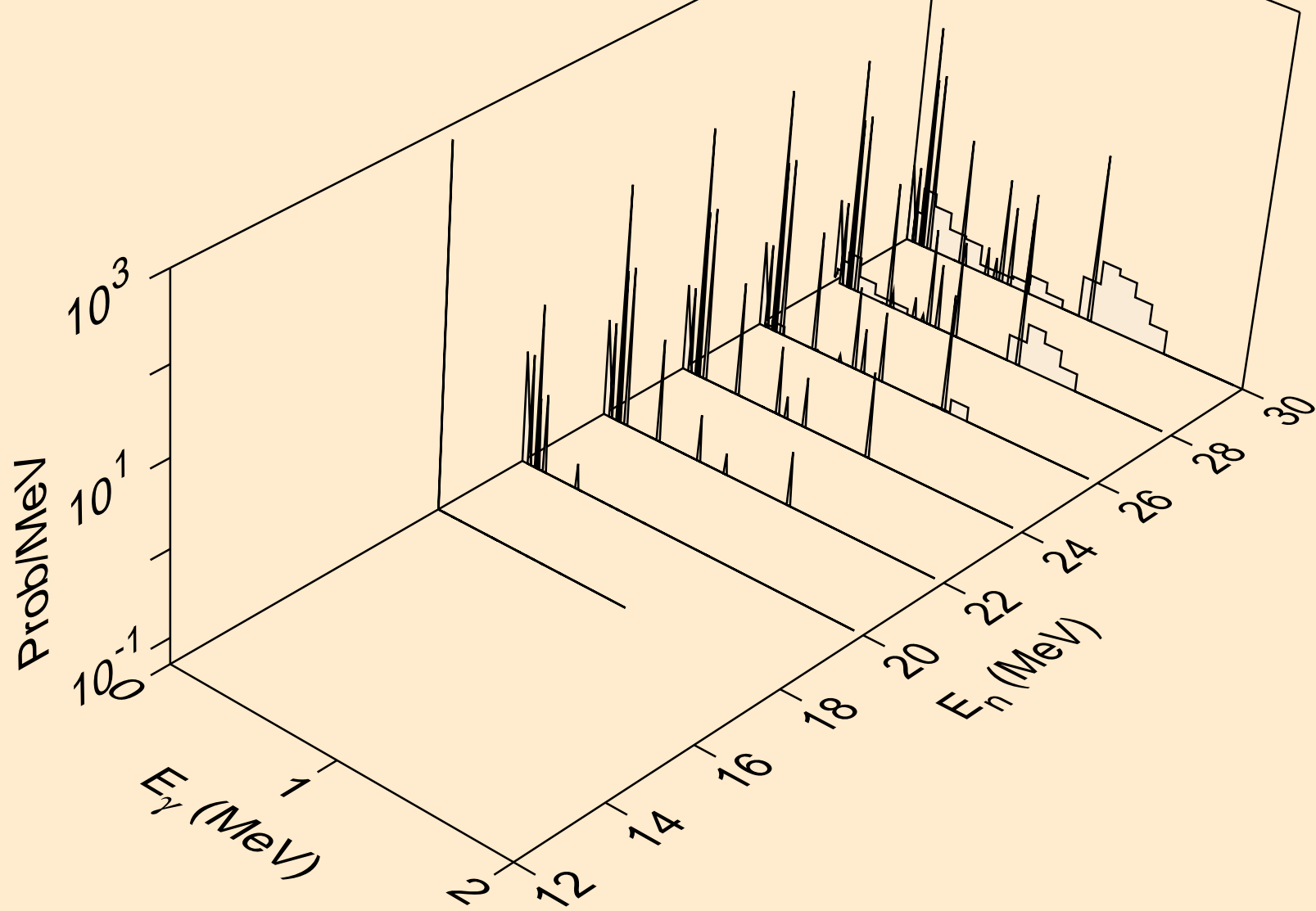
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



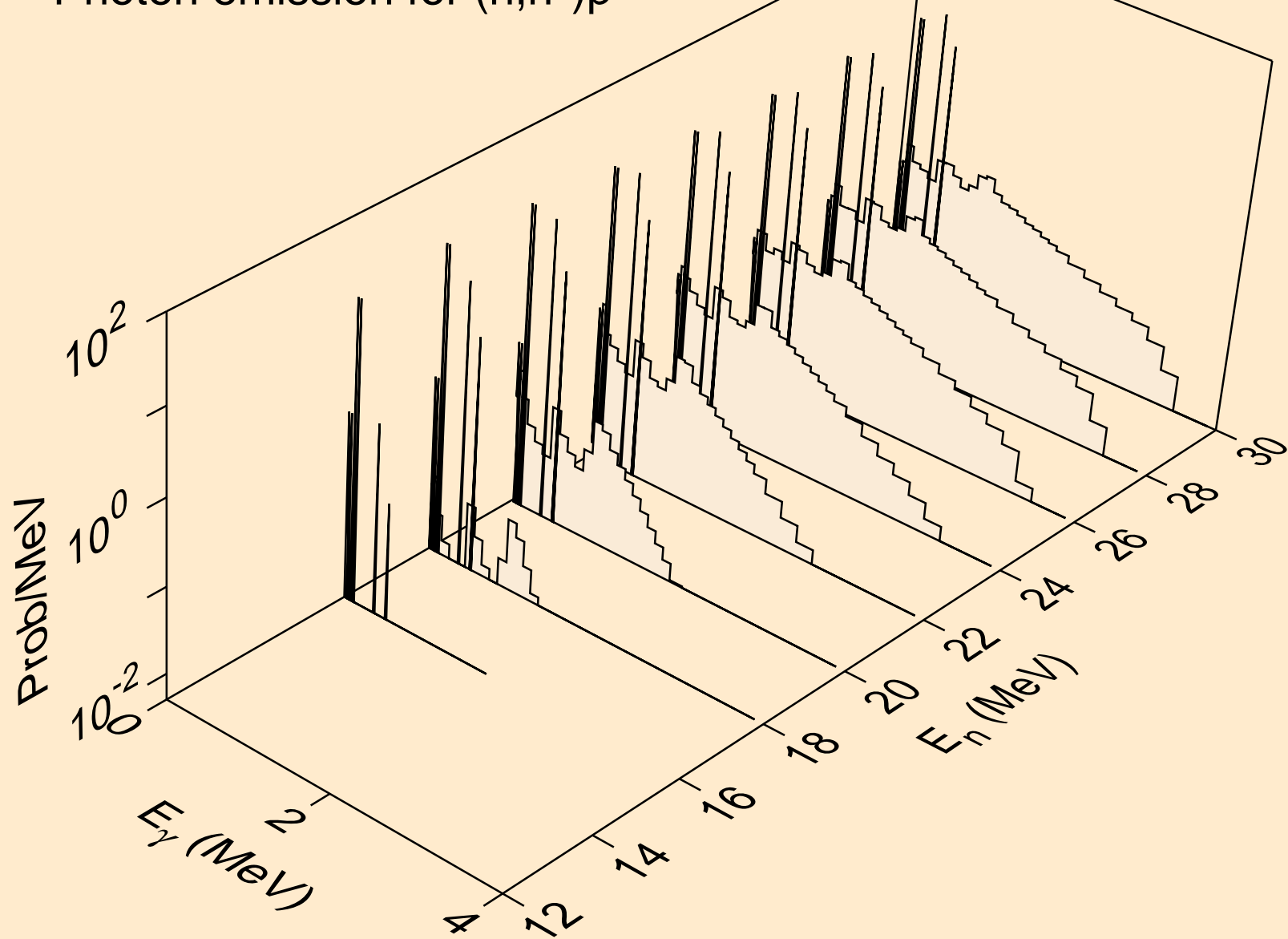
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



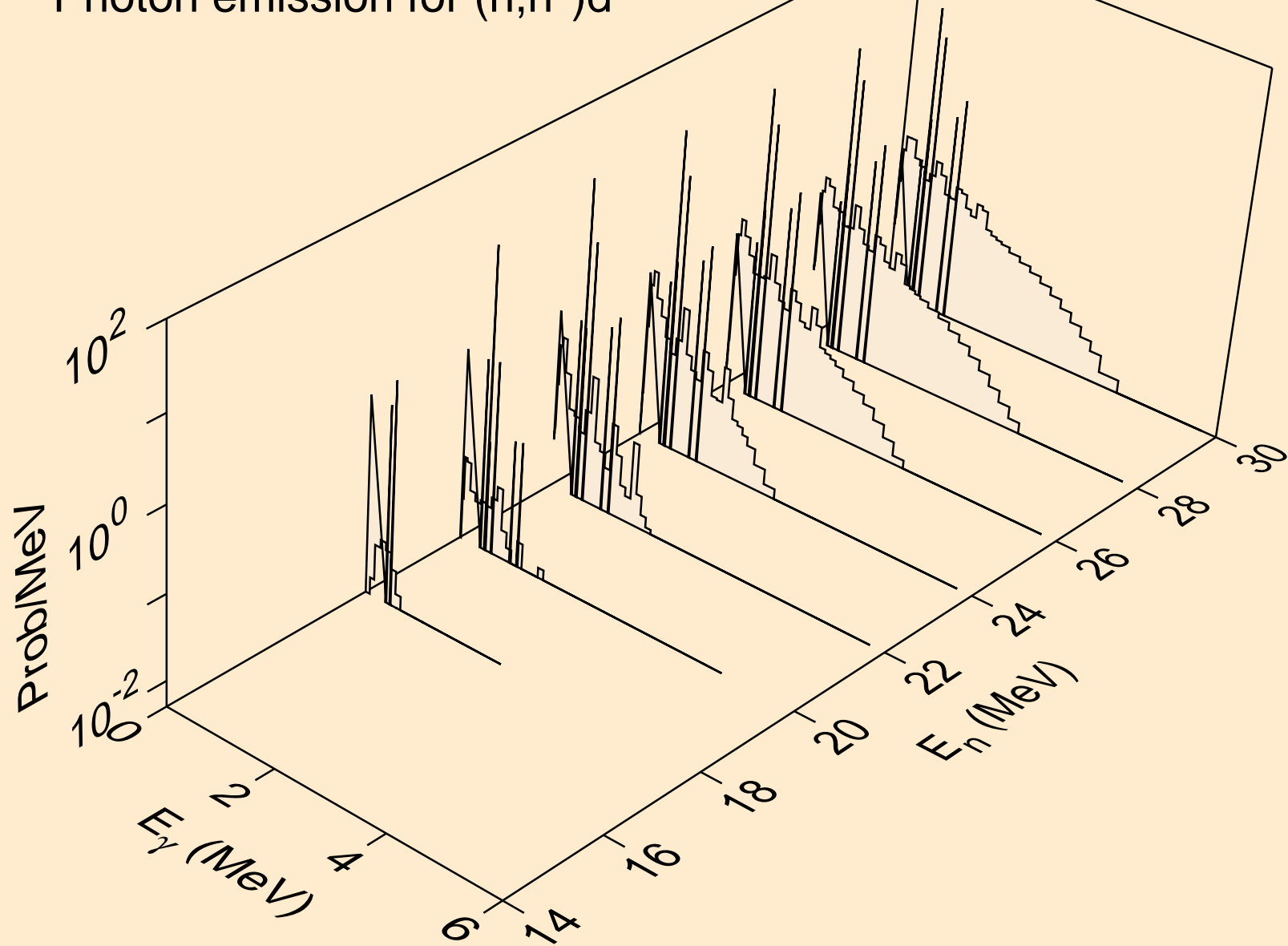
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

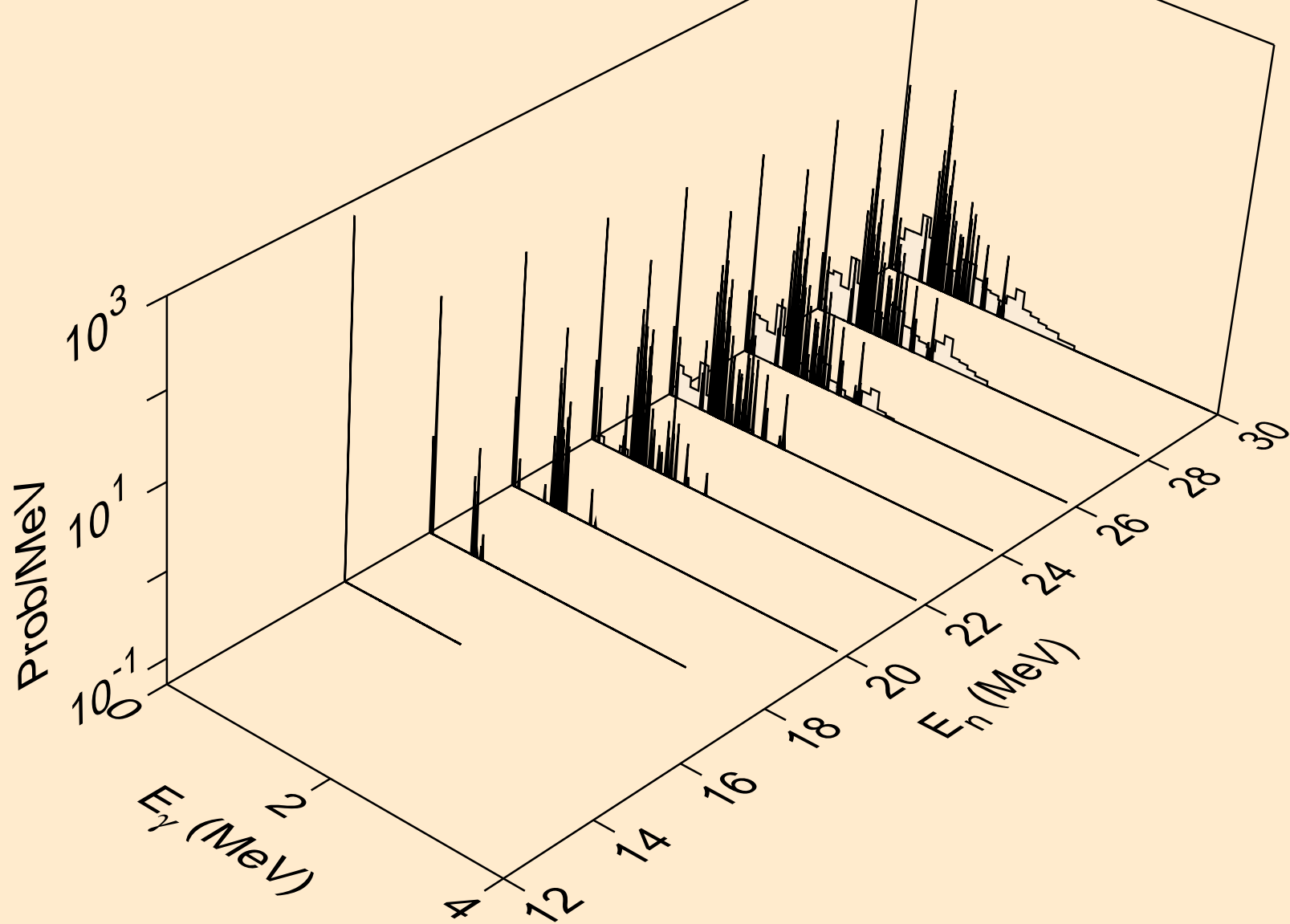


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

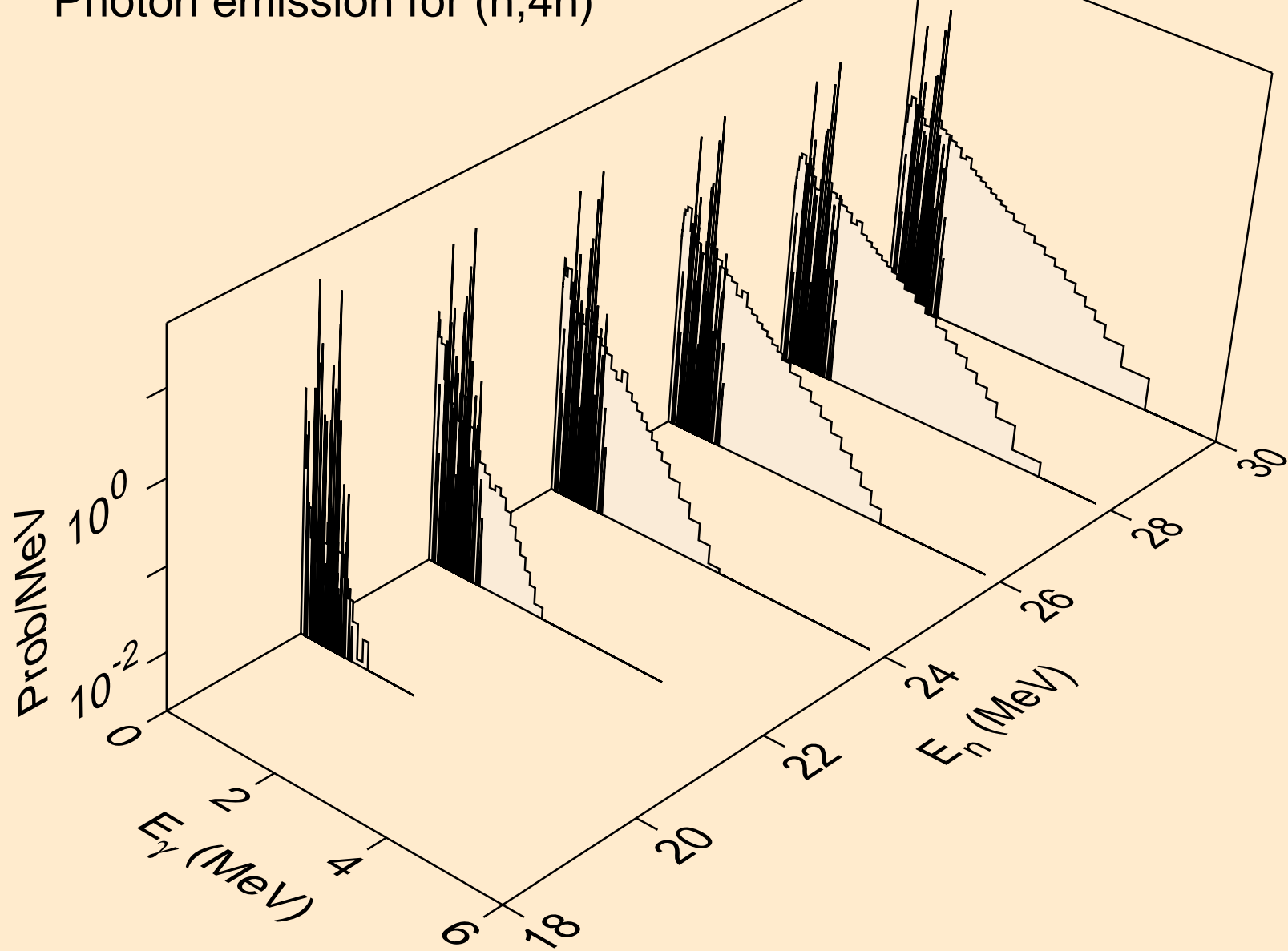




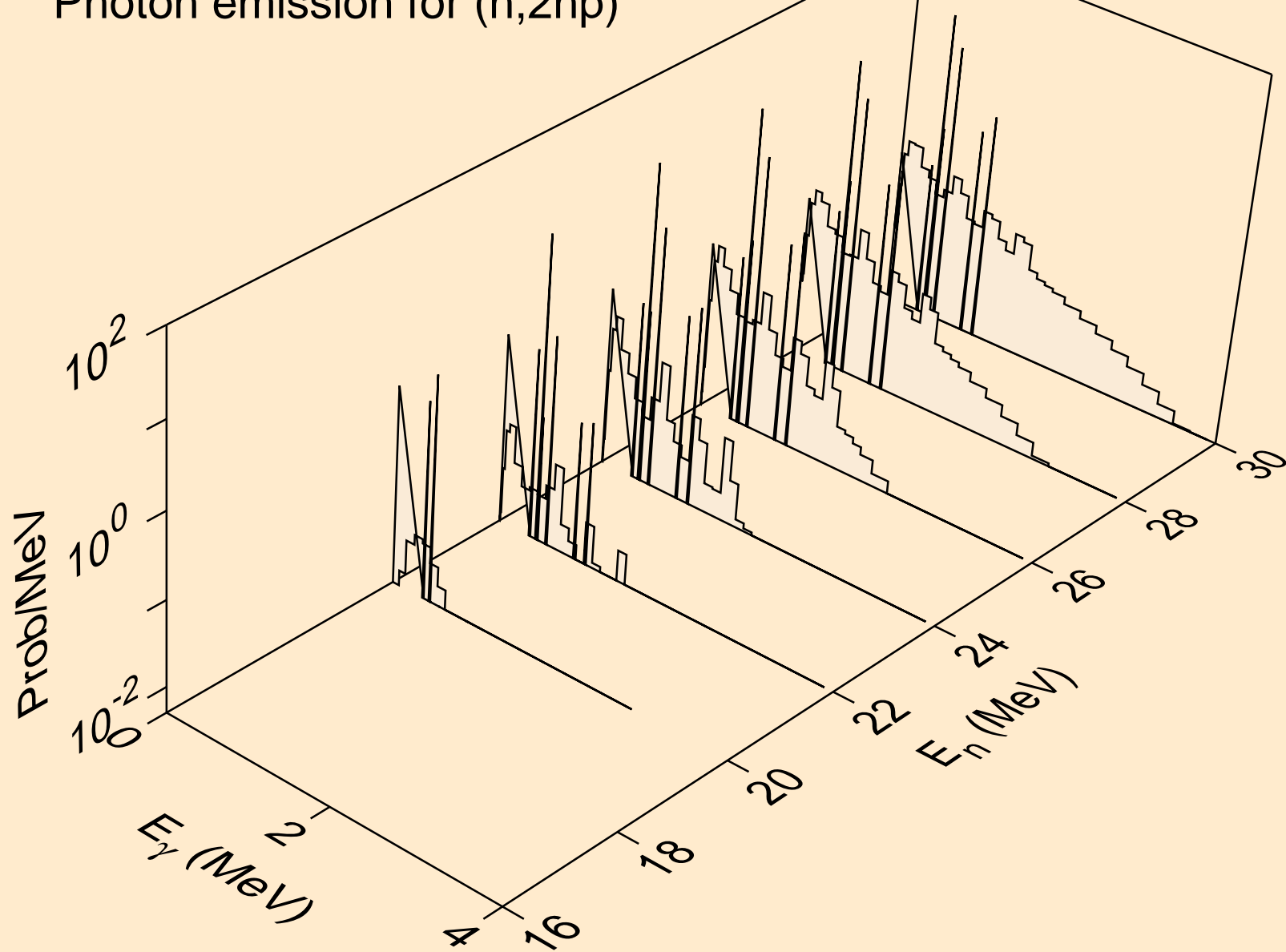
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



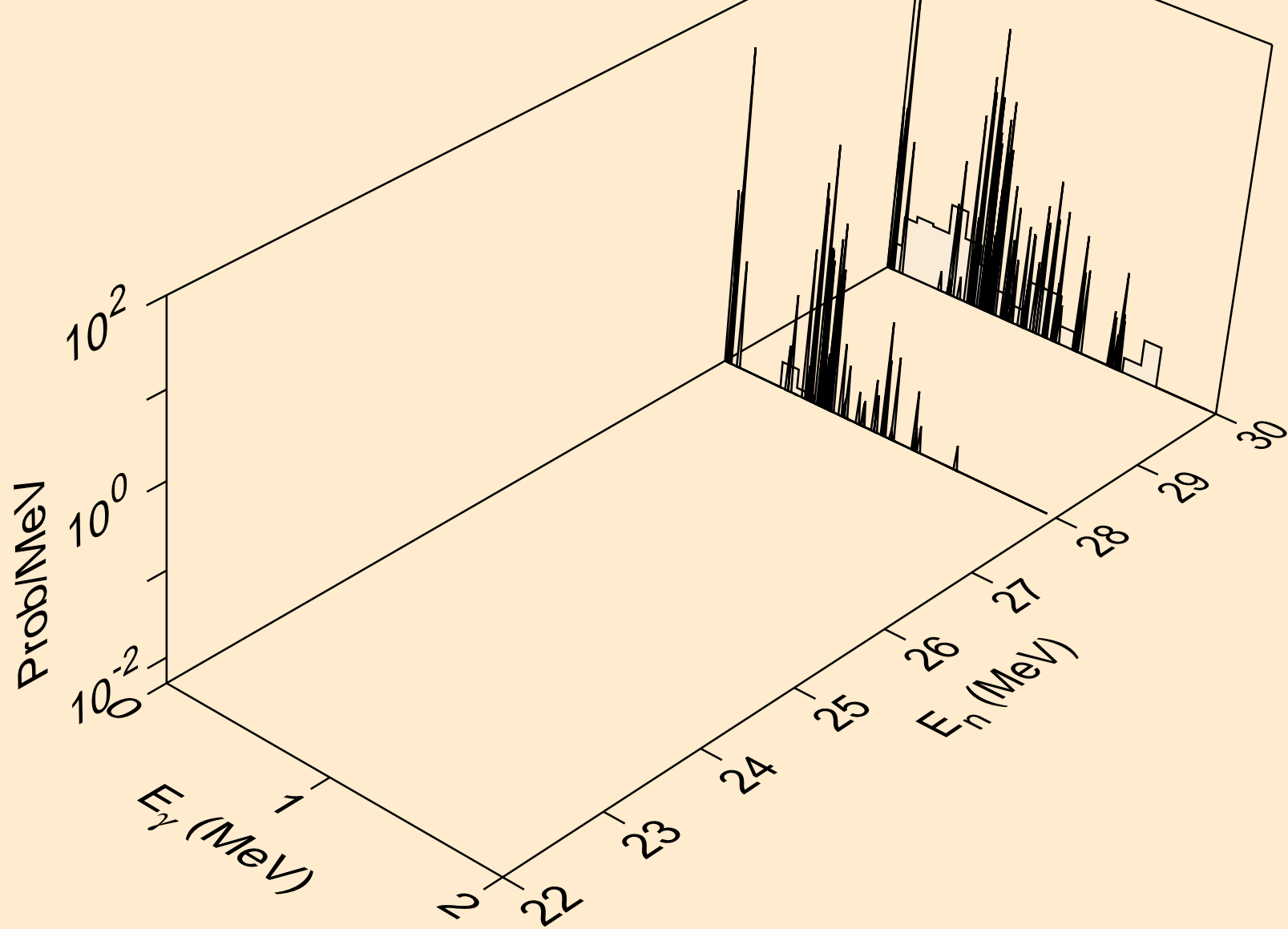
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



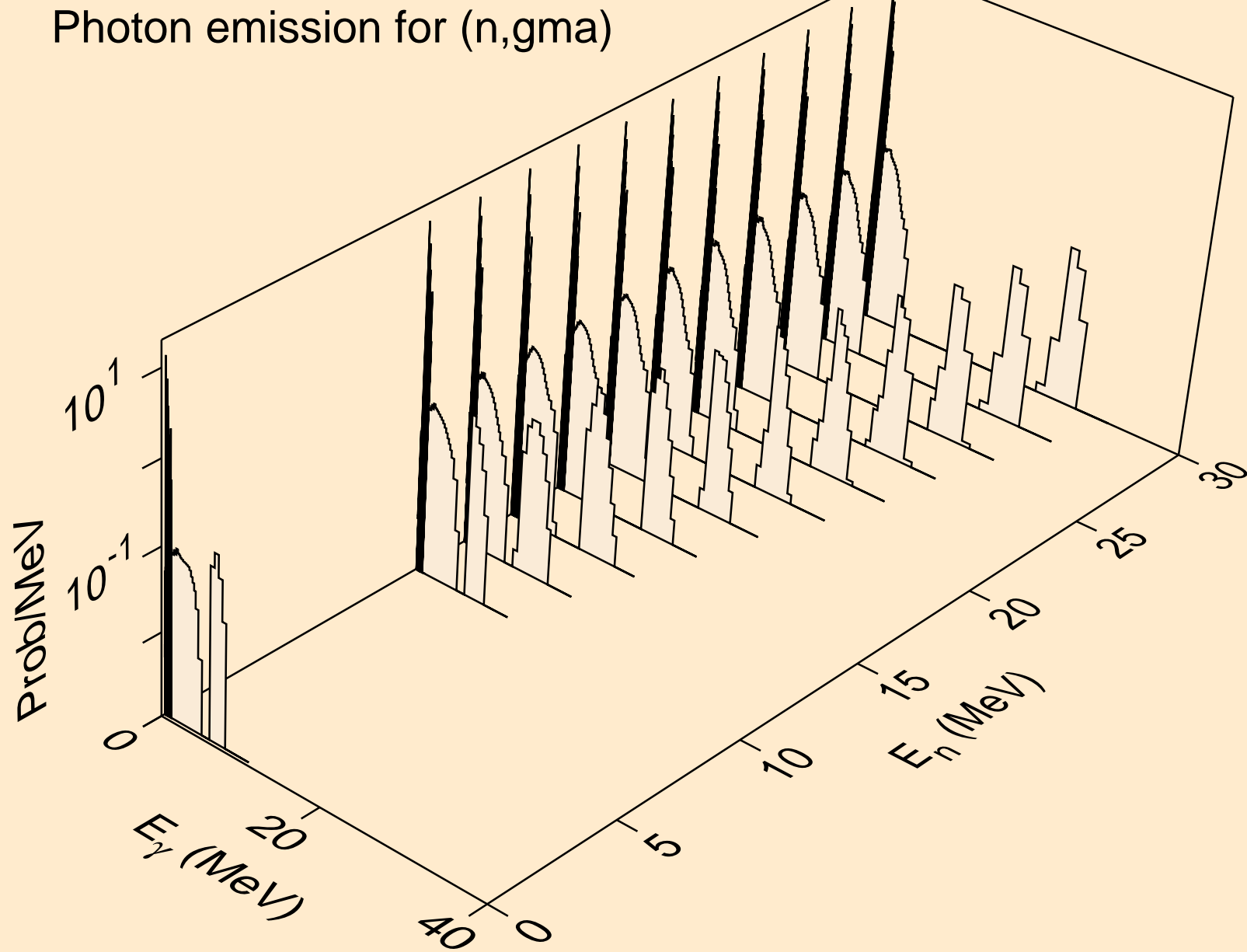
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



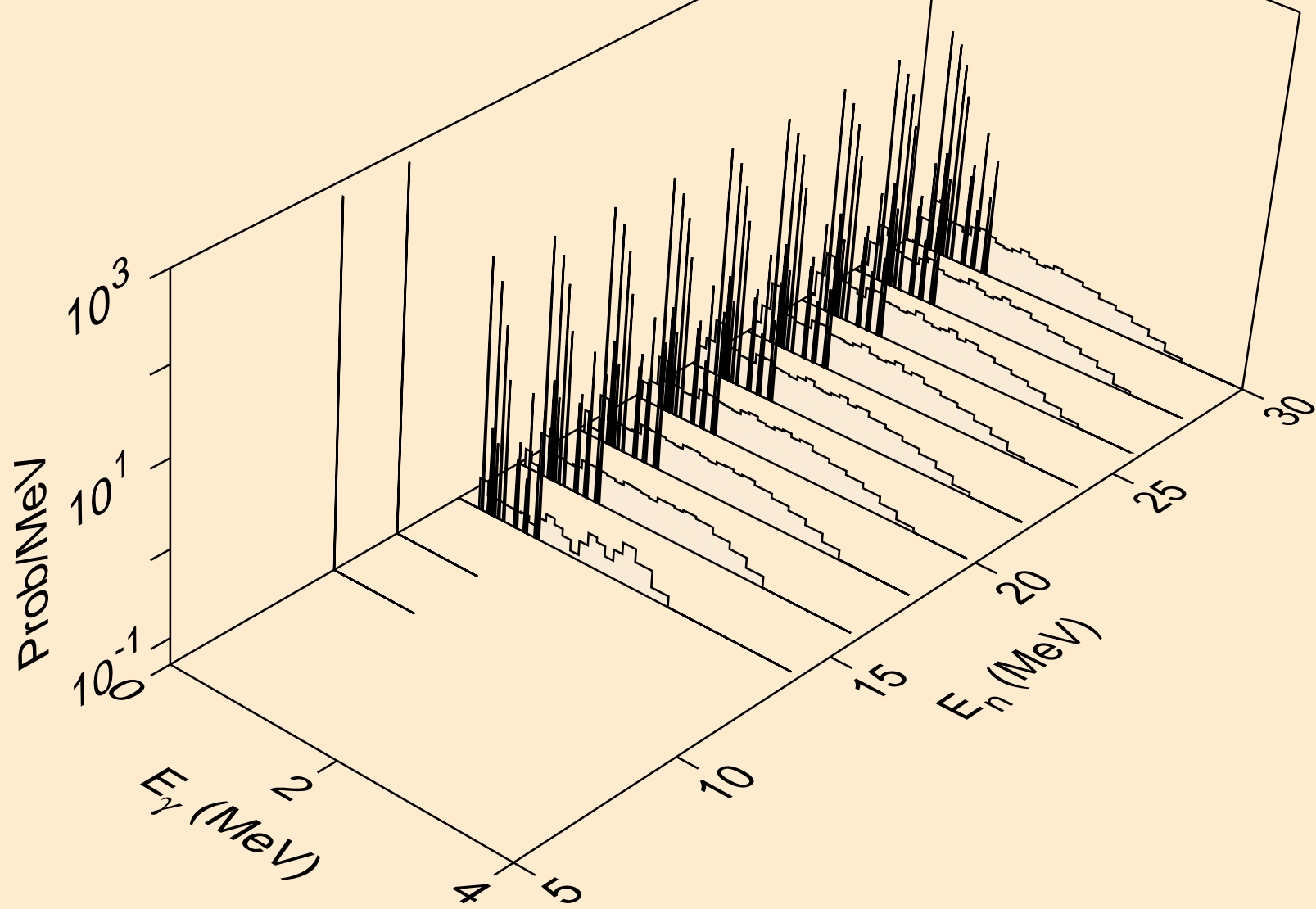
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



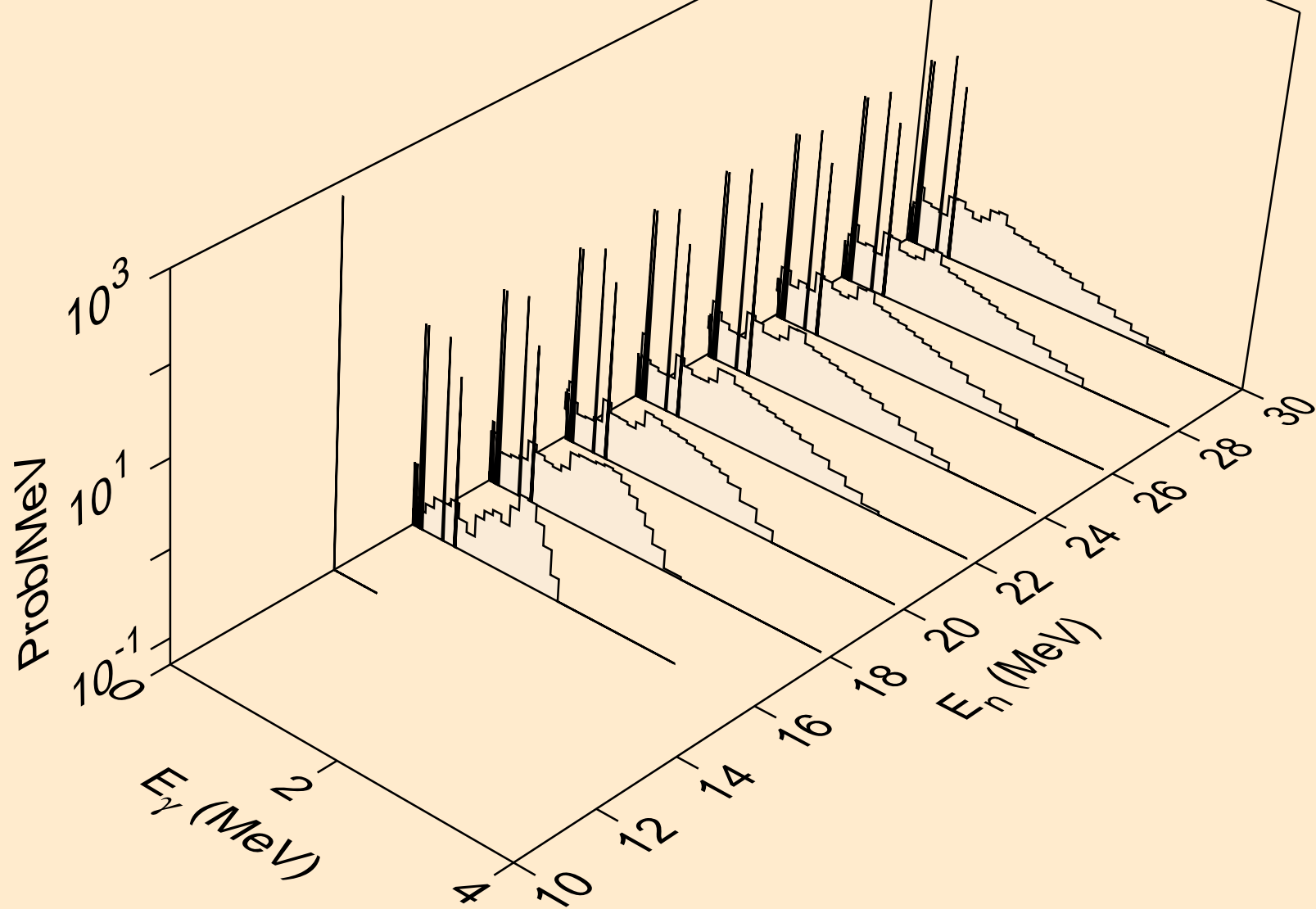
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



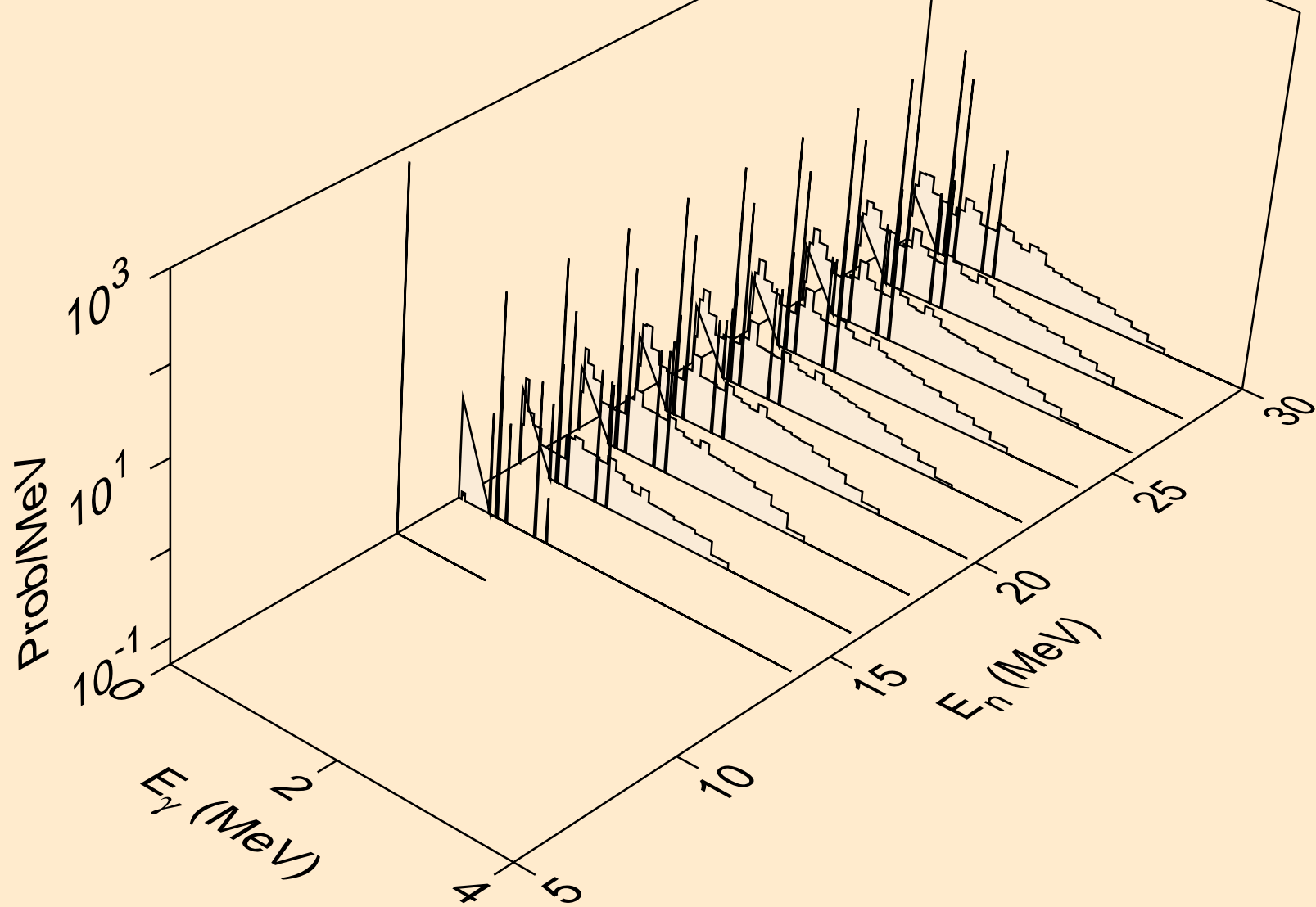
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

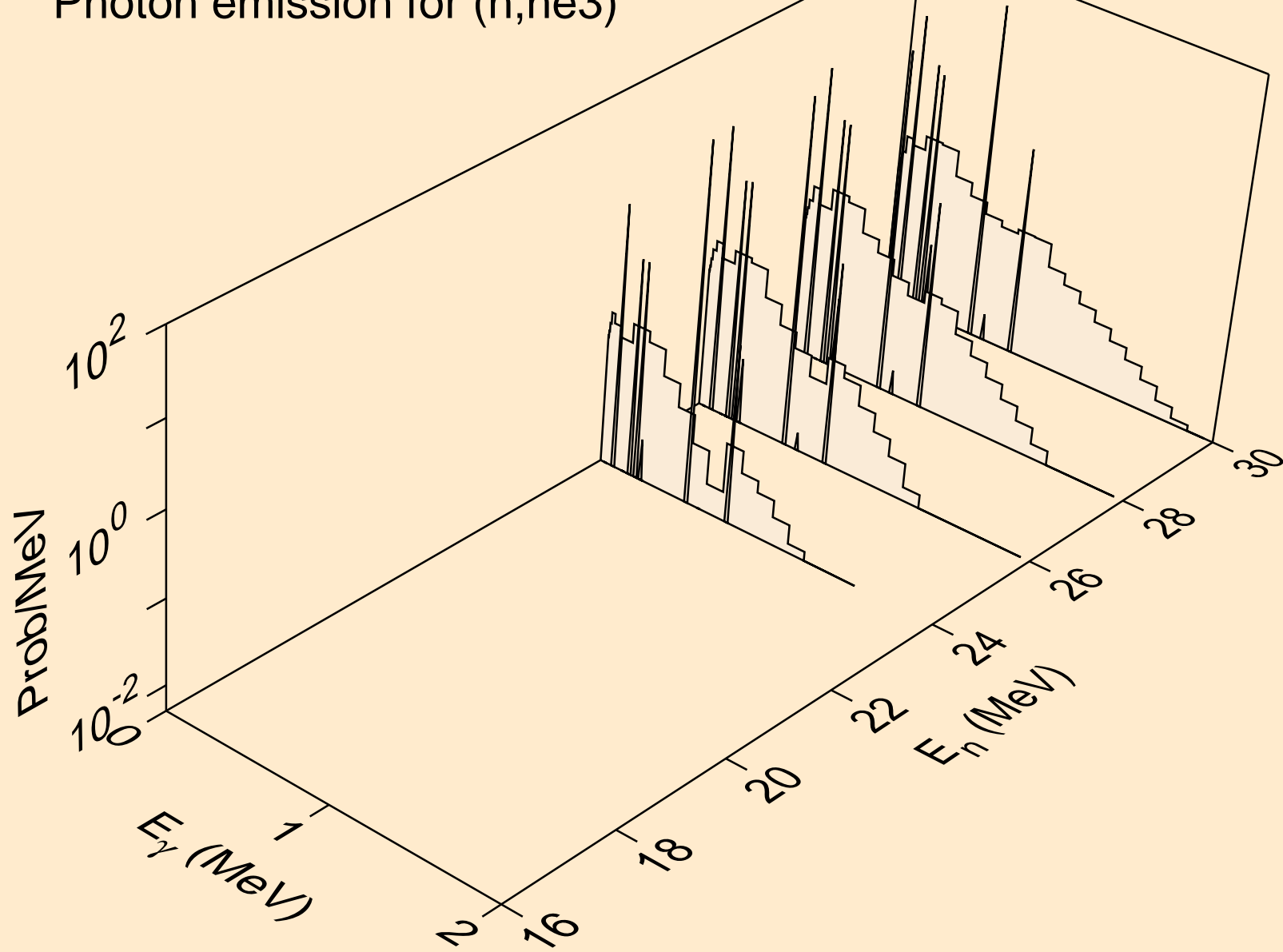


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

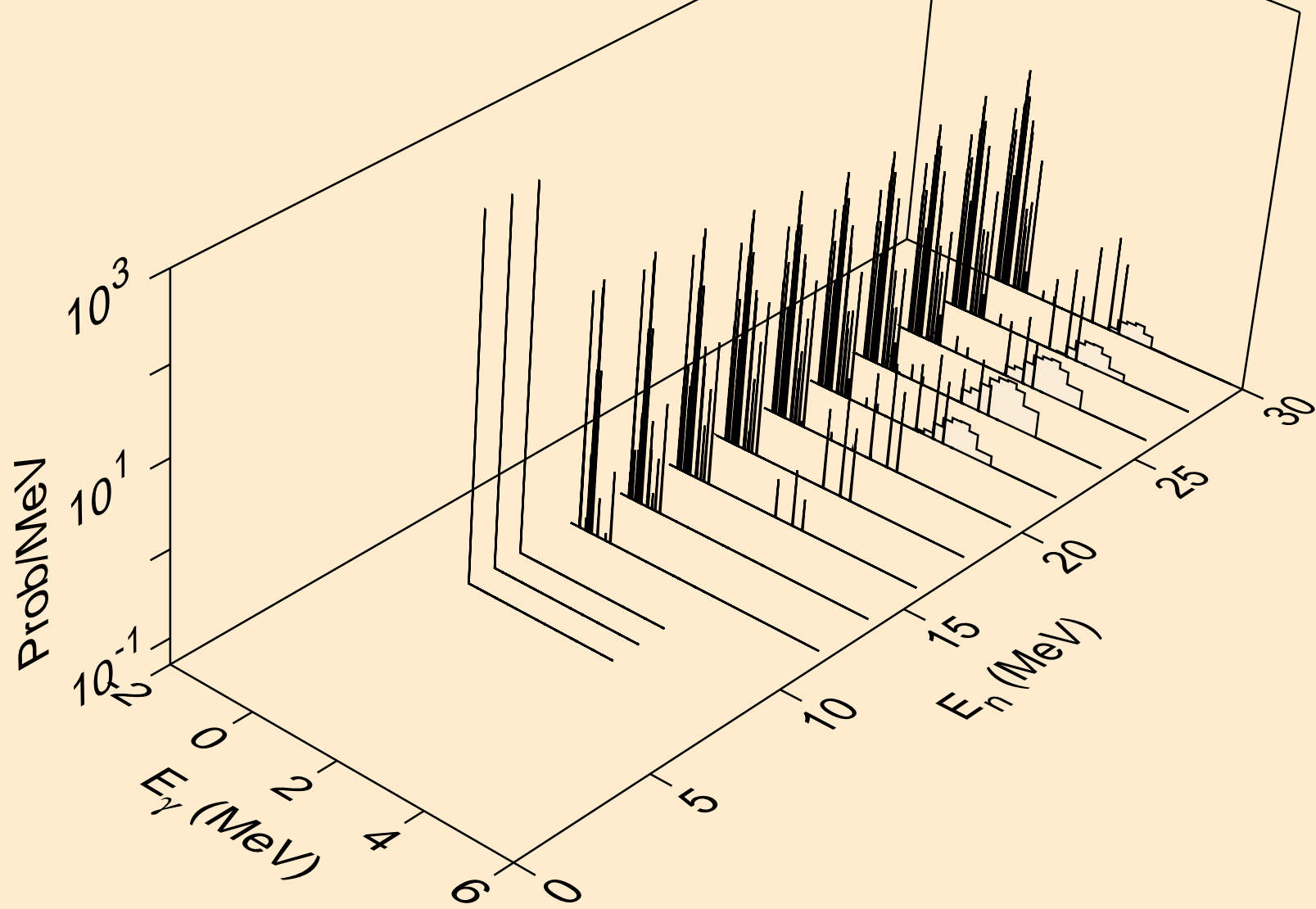




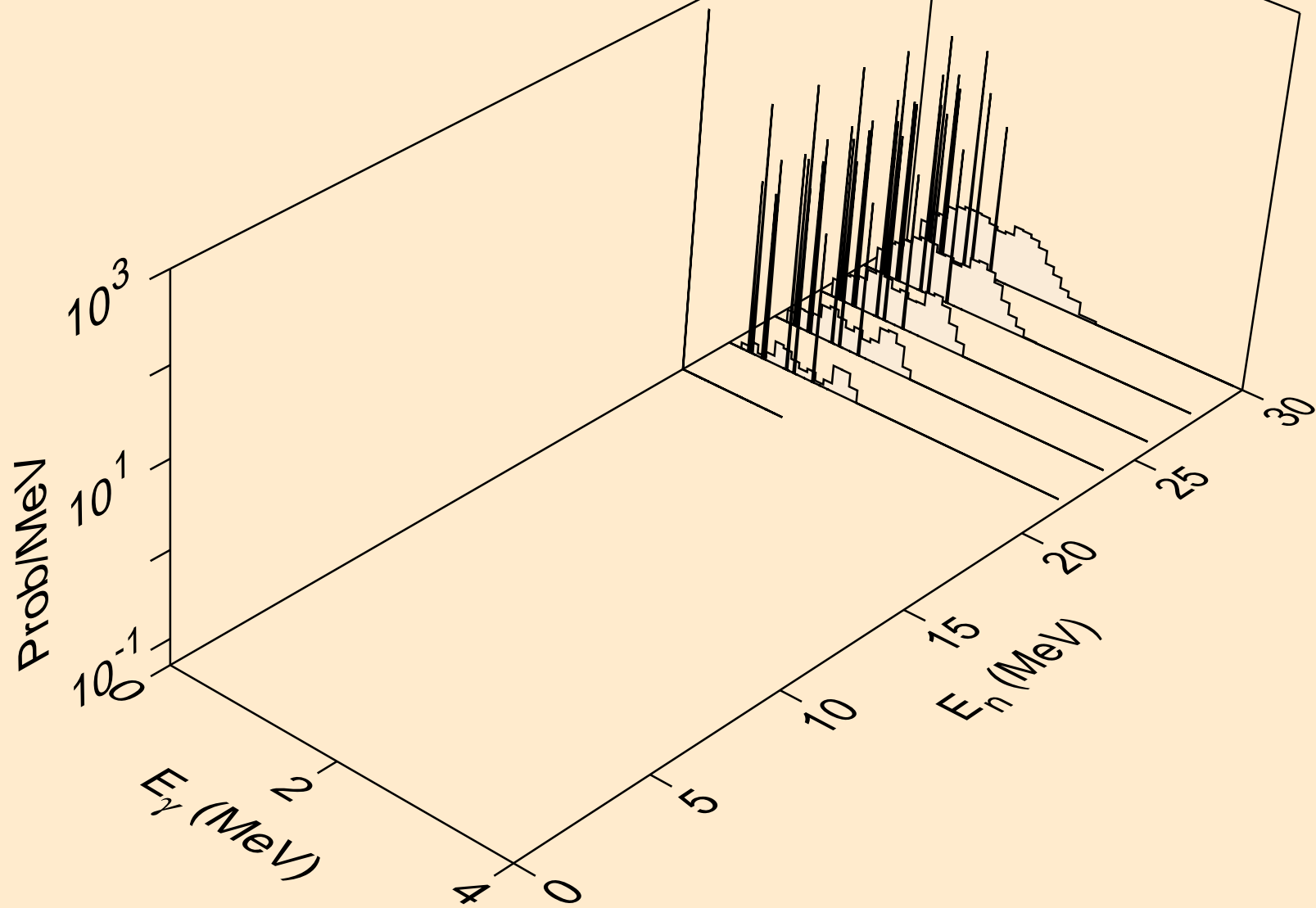
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

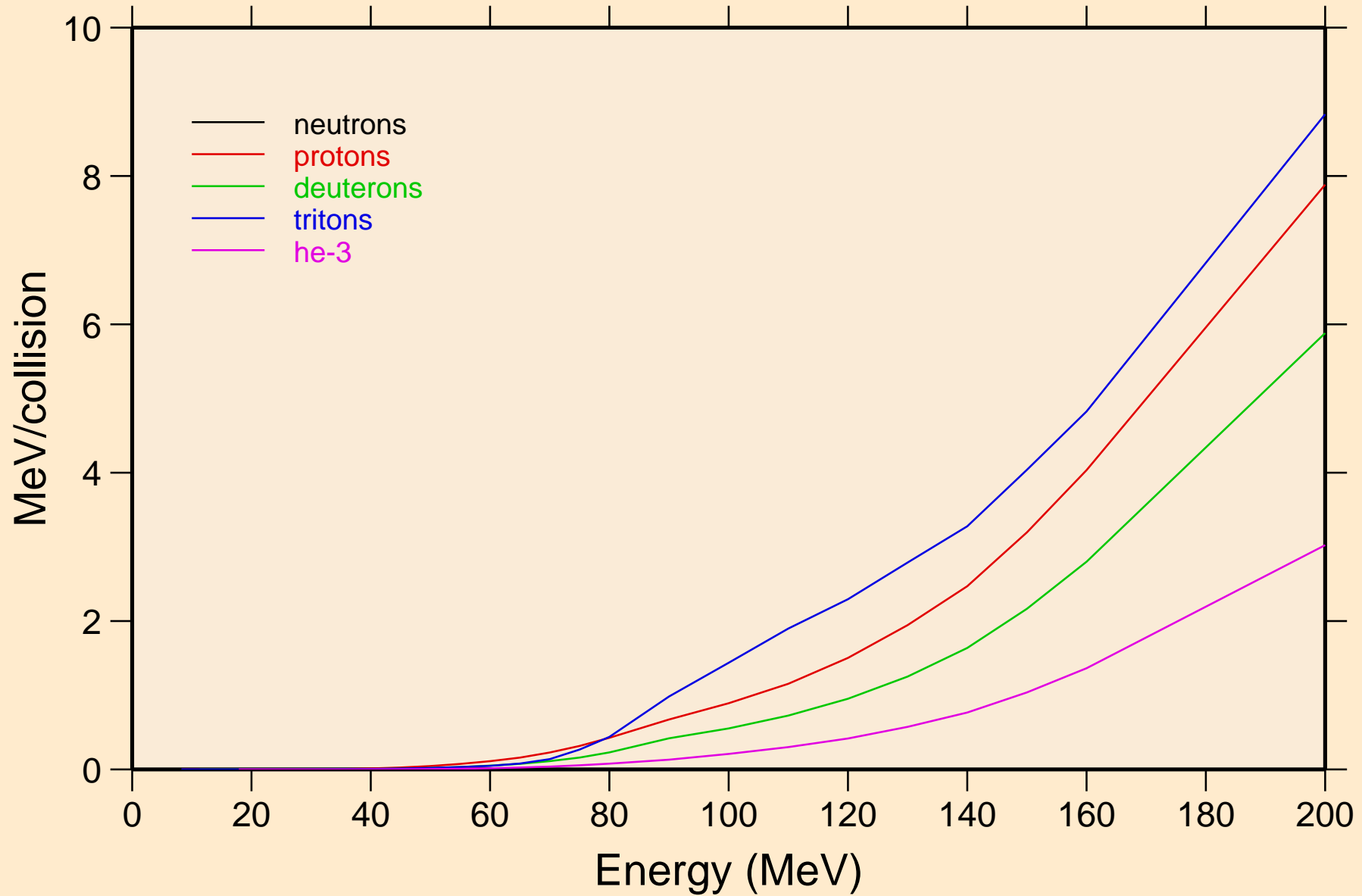


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

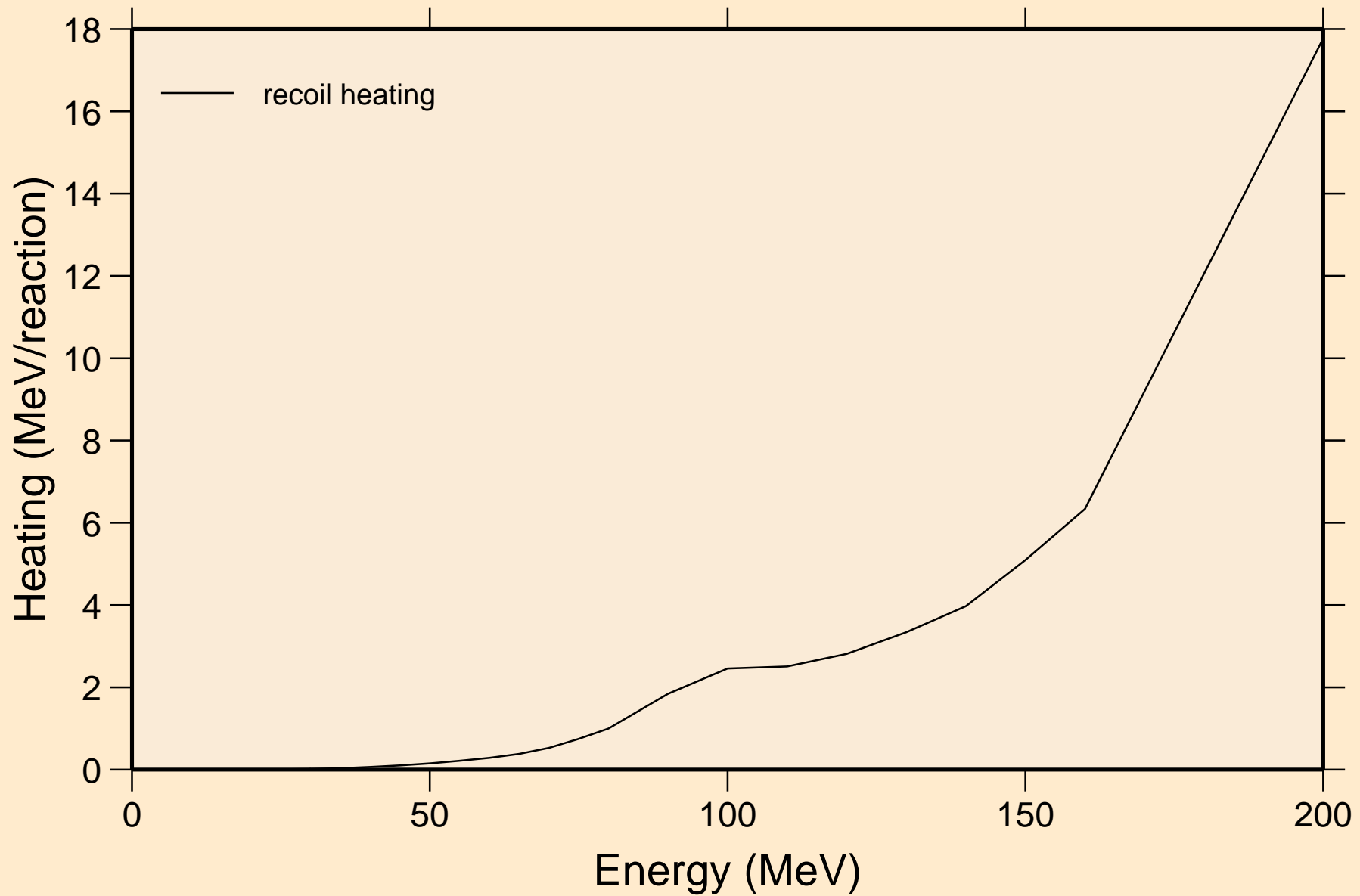


# I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

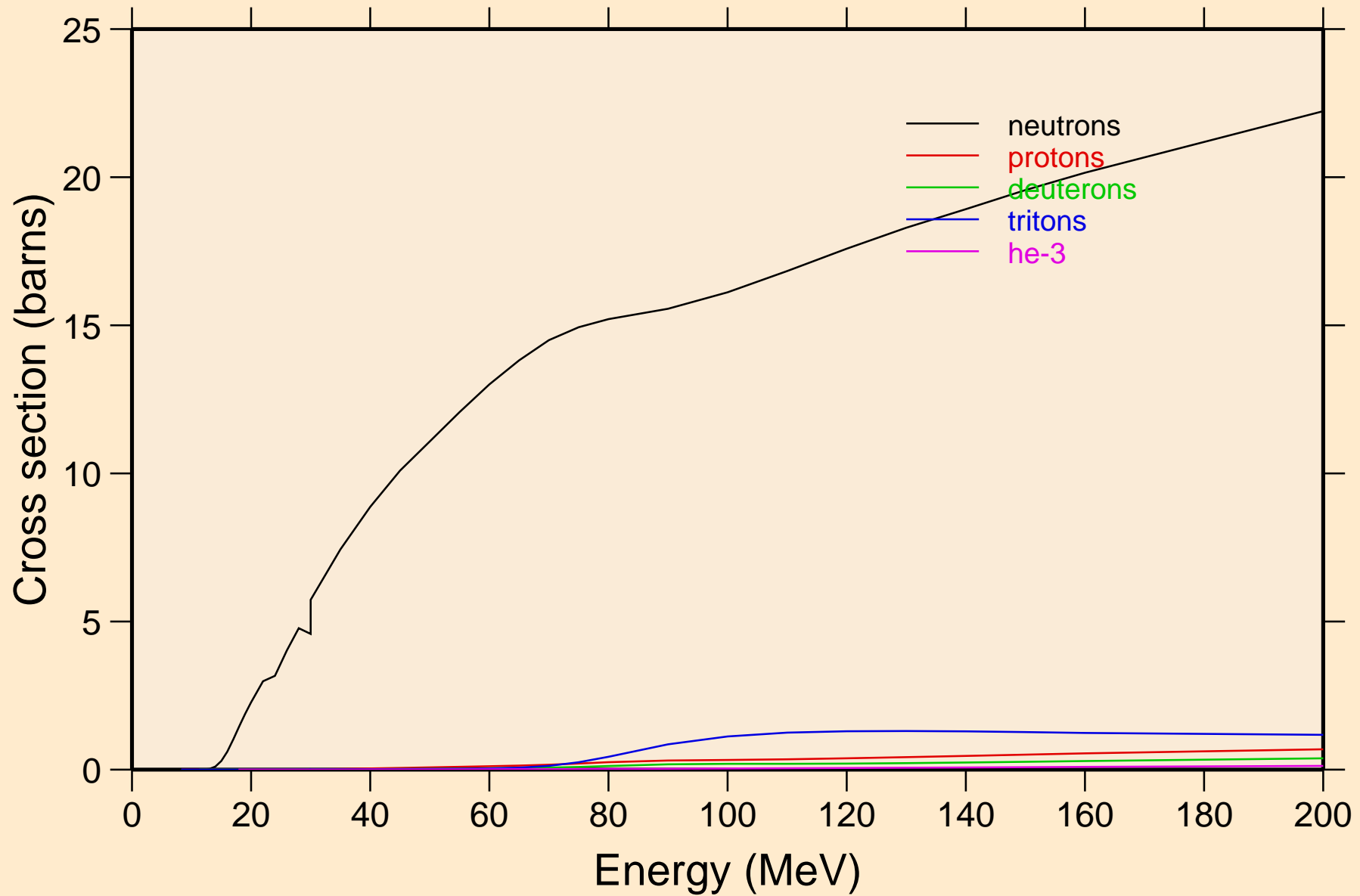


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

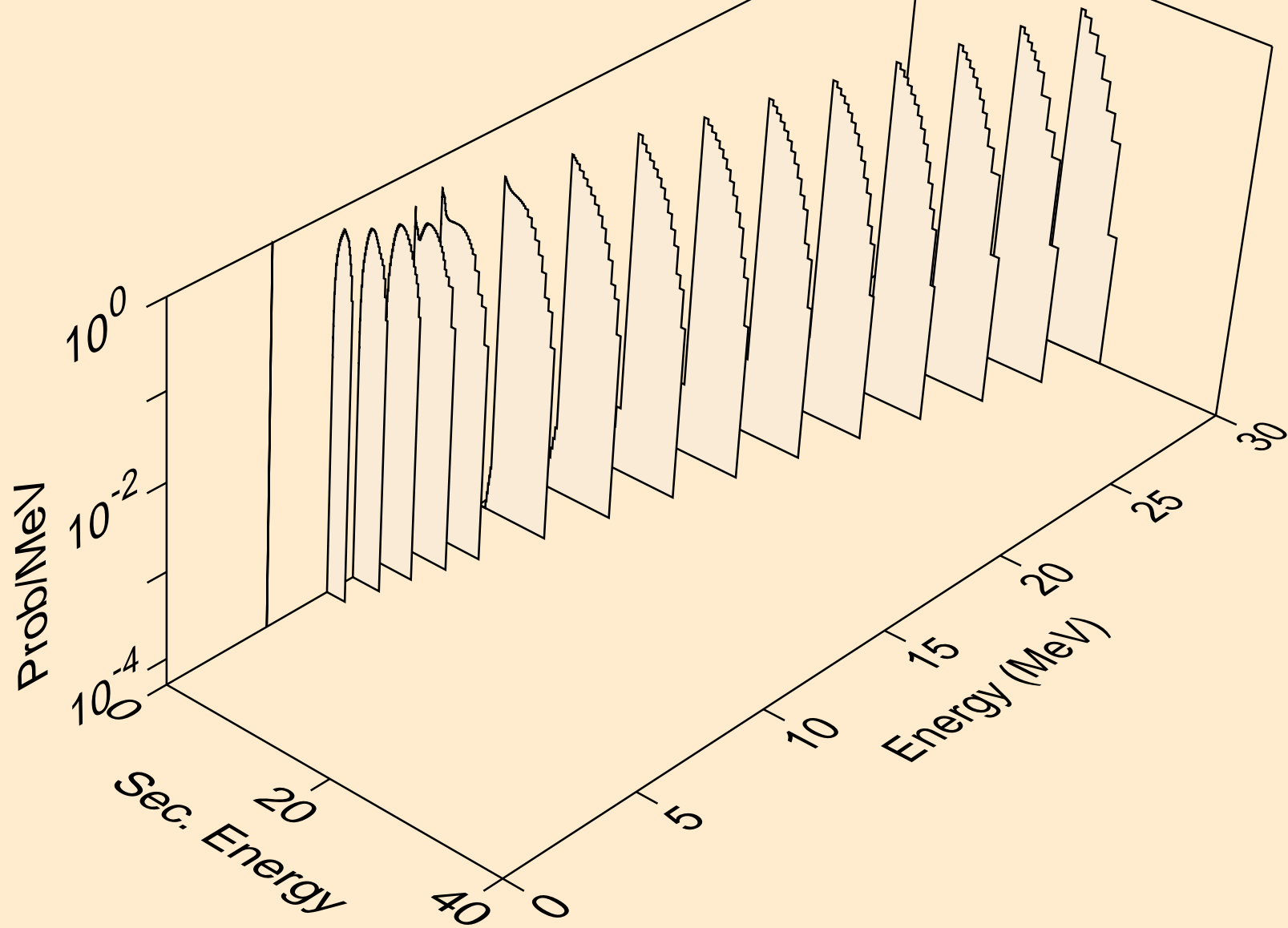


# I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

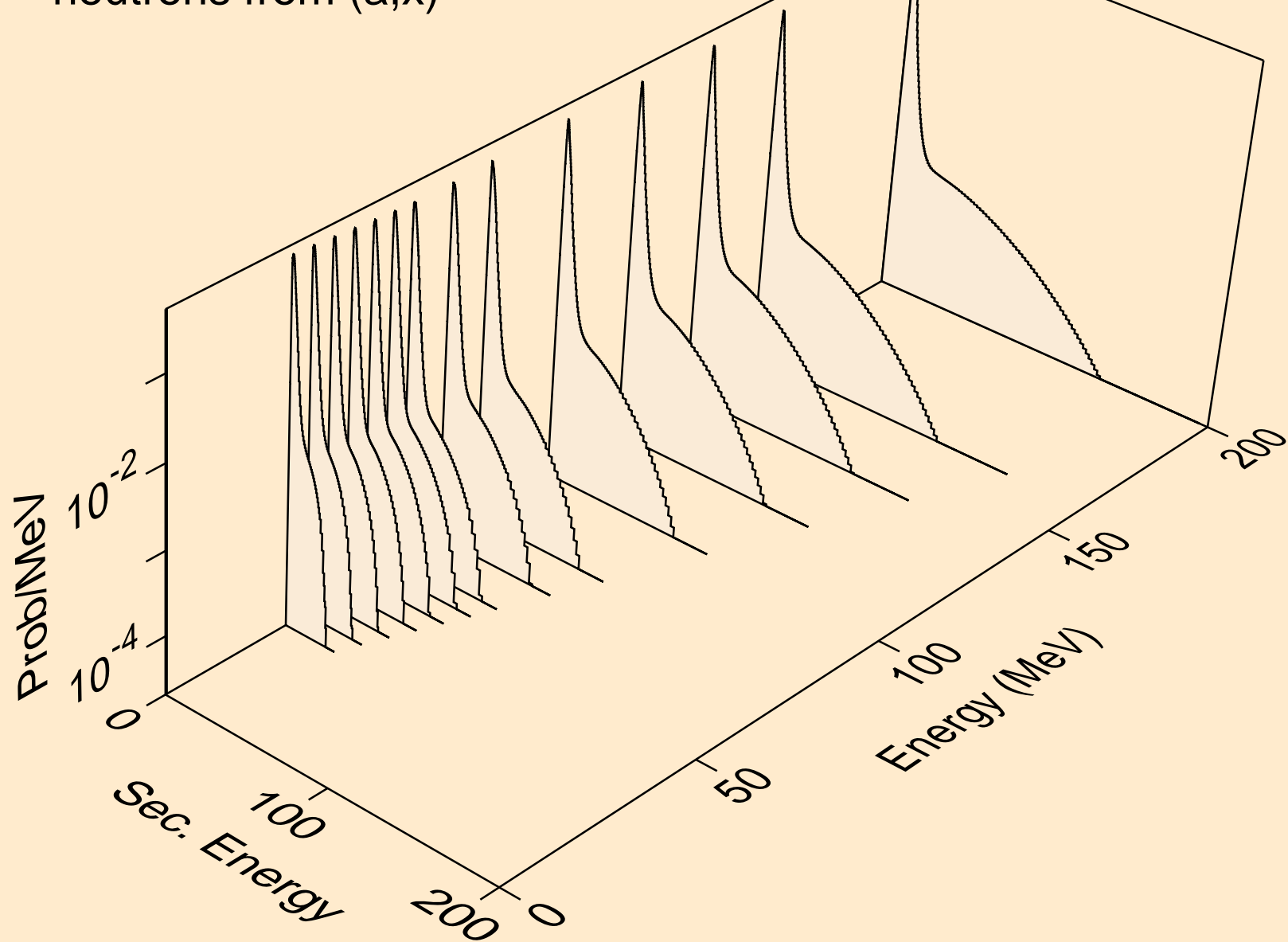
## Particle production cross sections



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n)

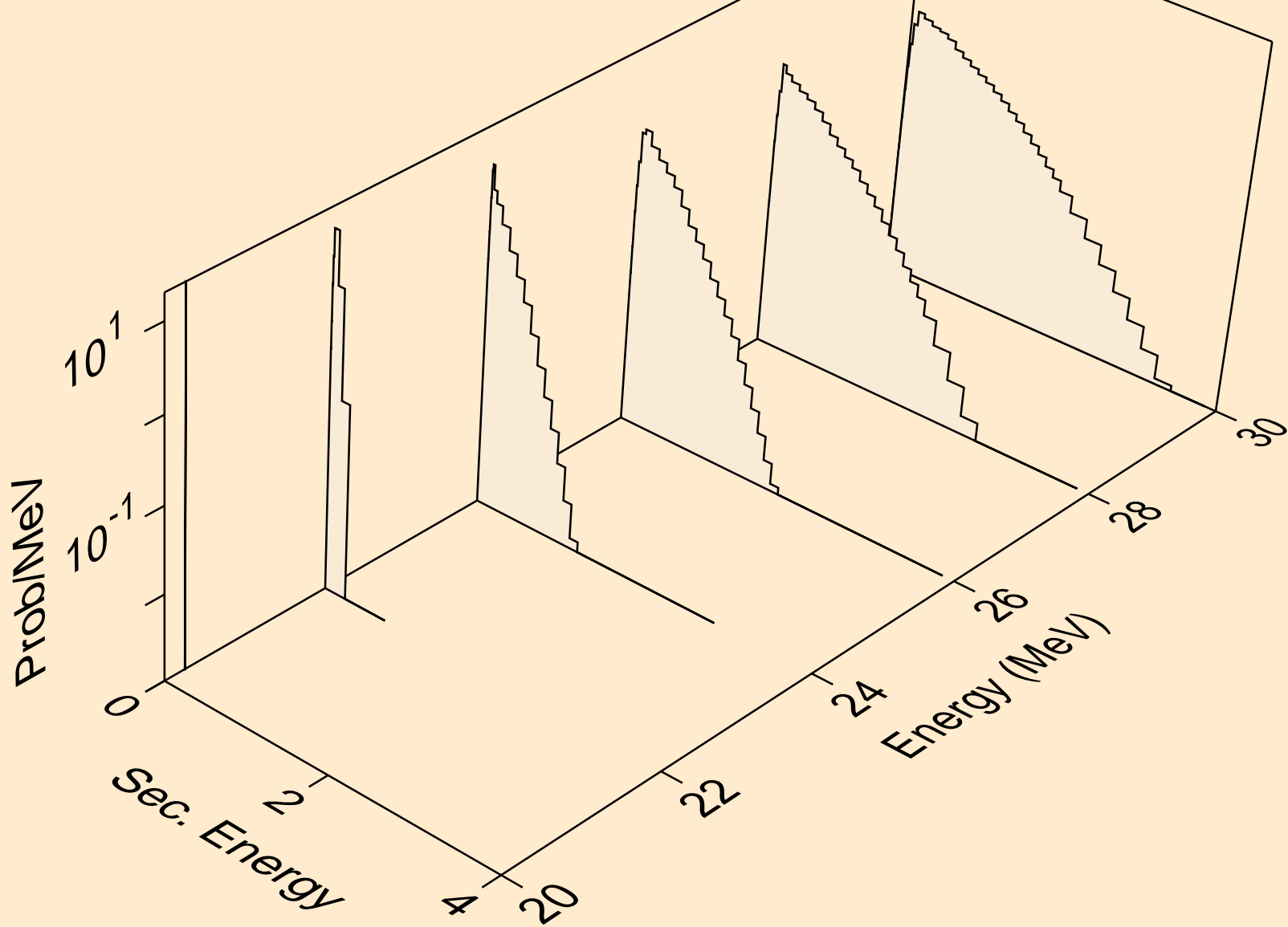


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,x)

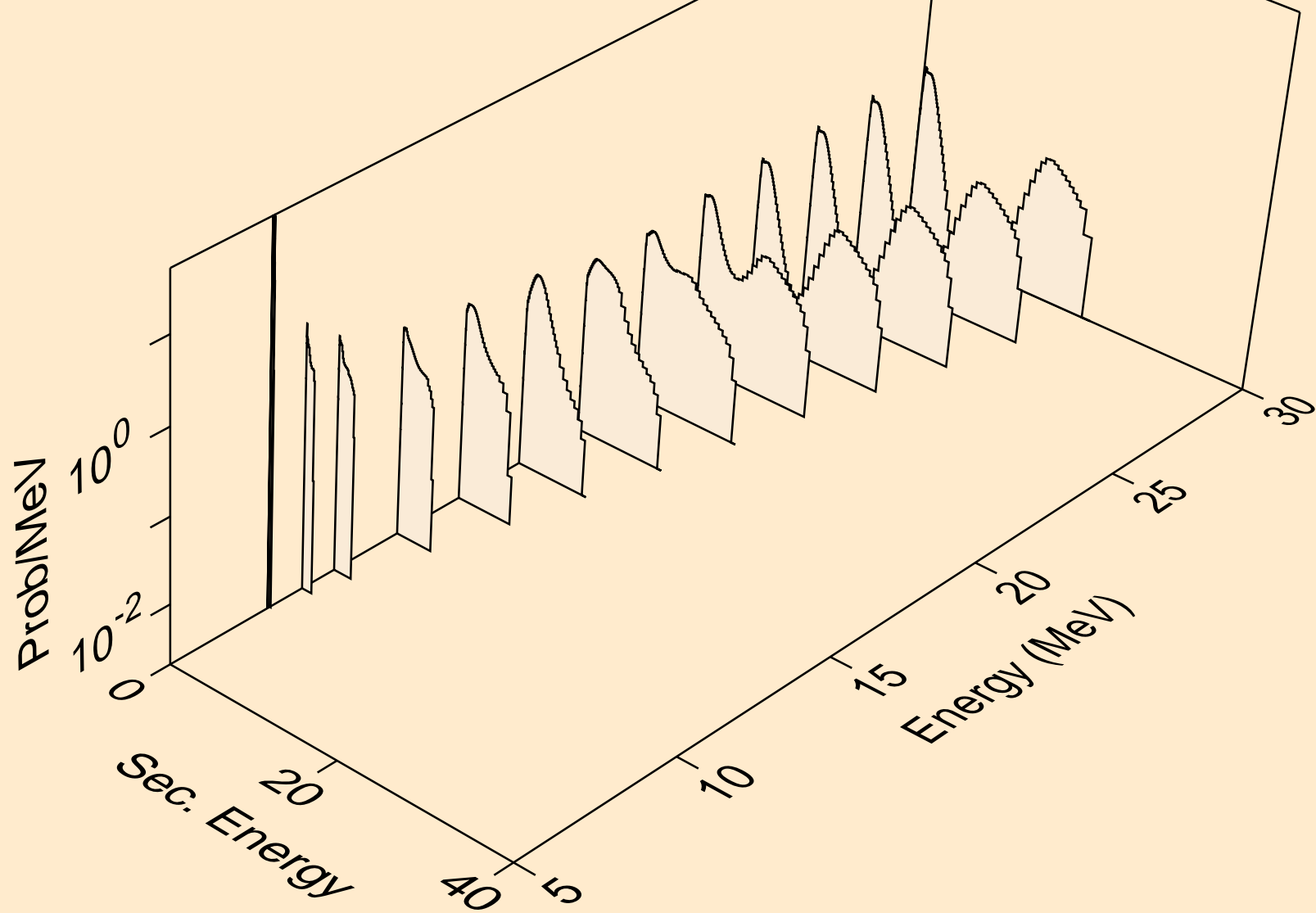




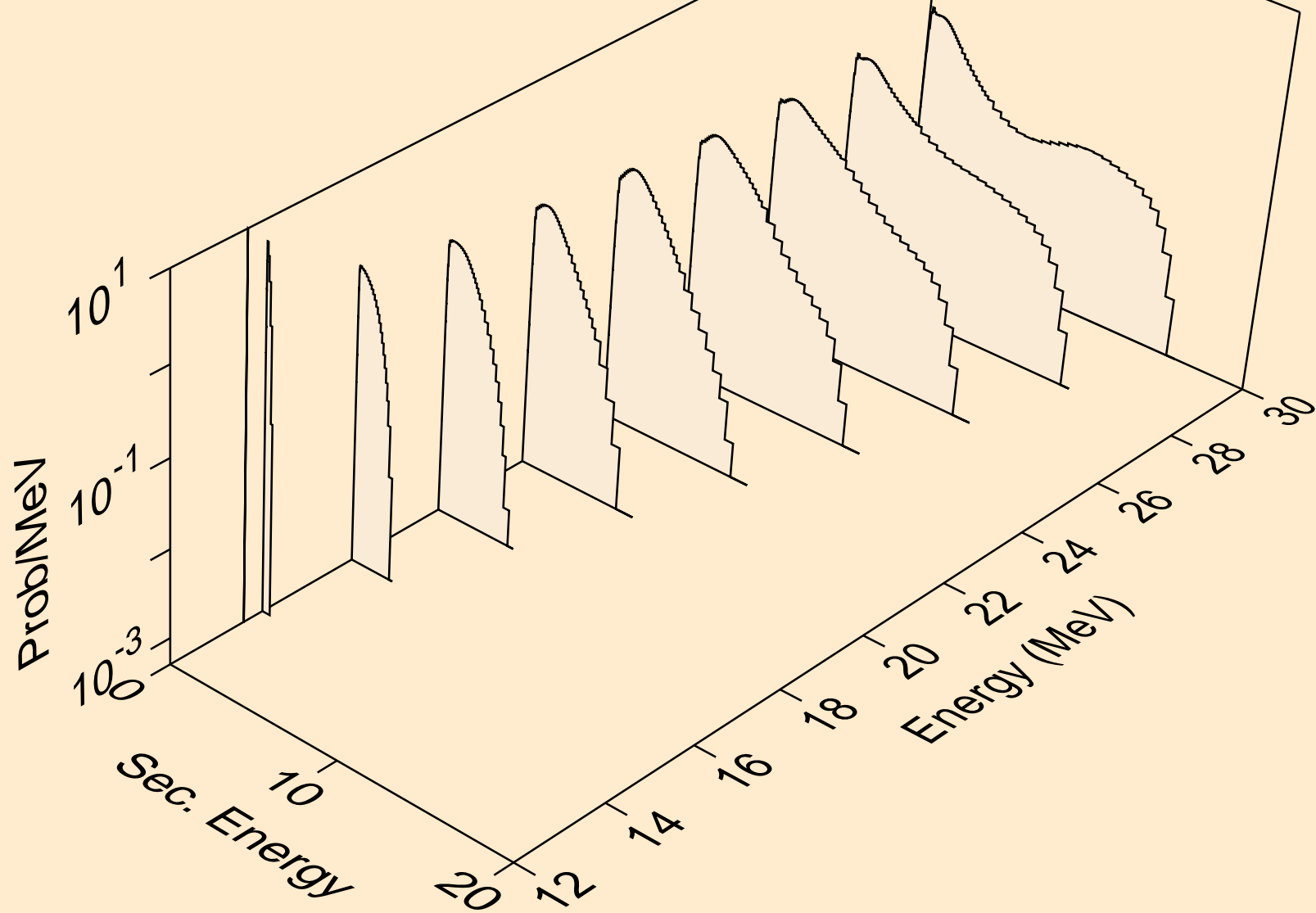
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2nd)



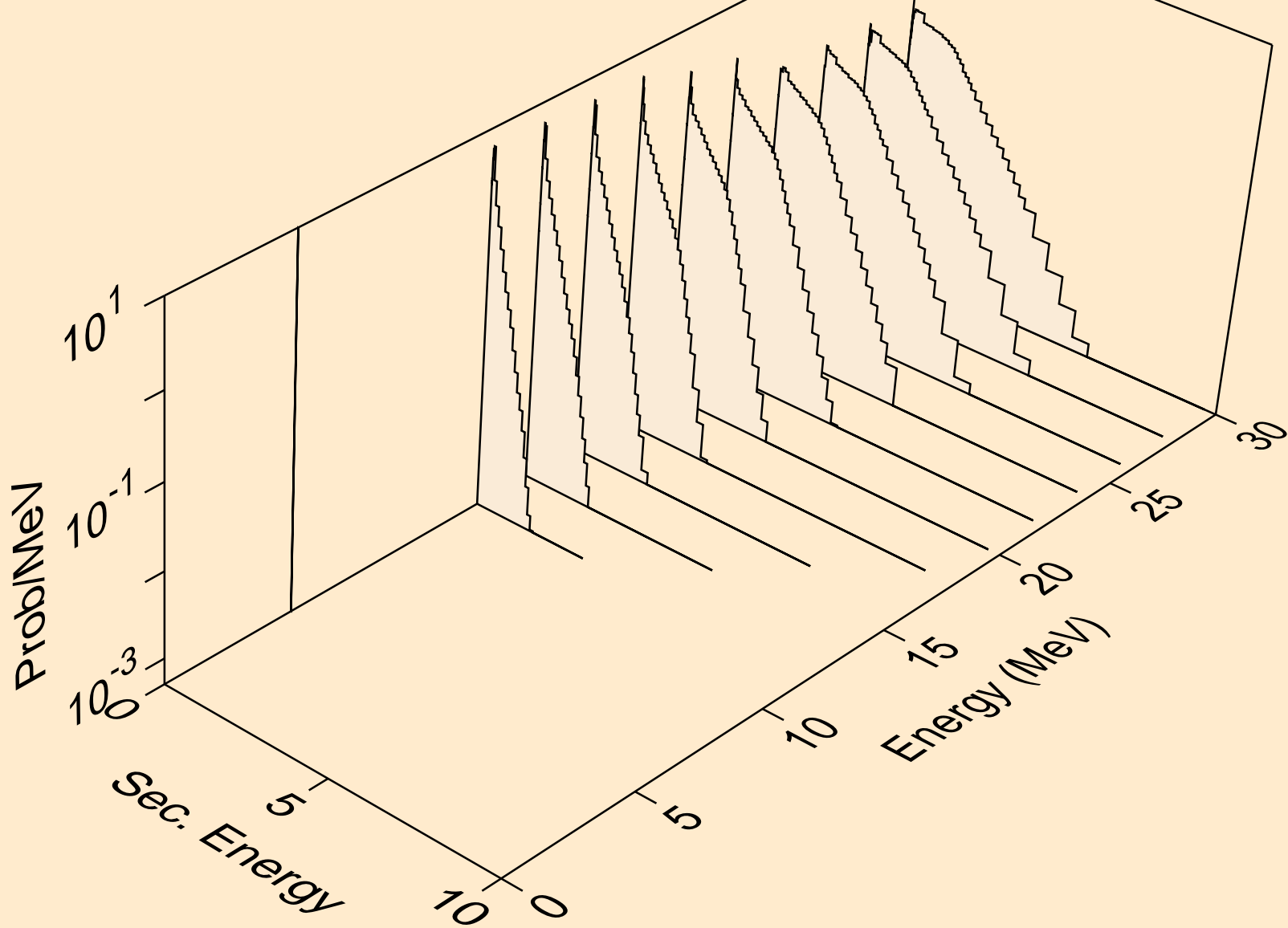
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neutrons from (a,2n)



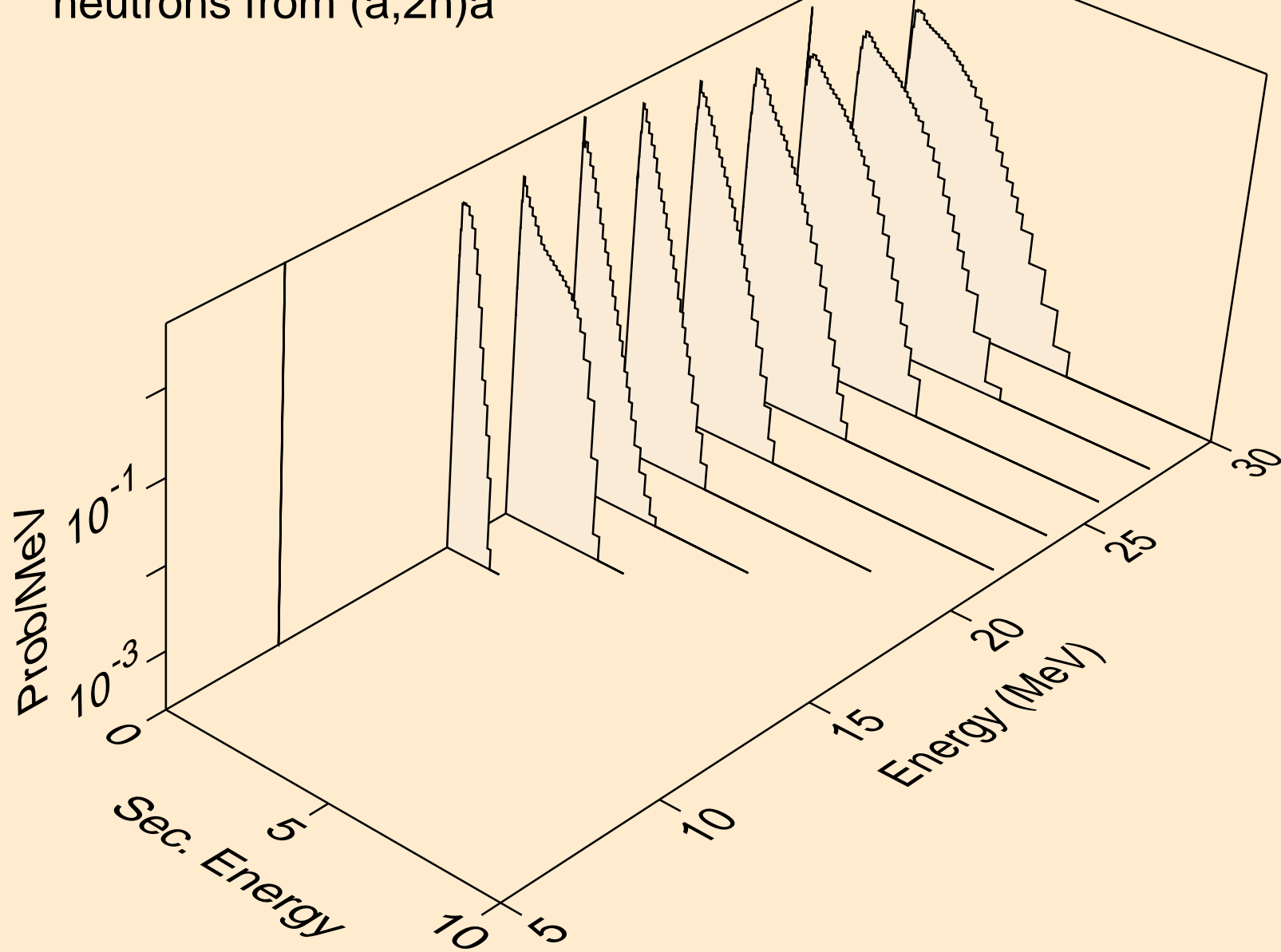
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,3n)



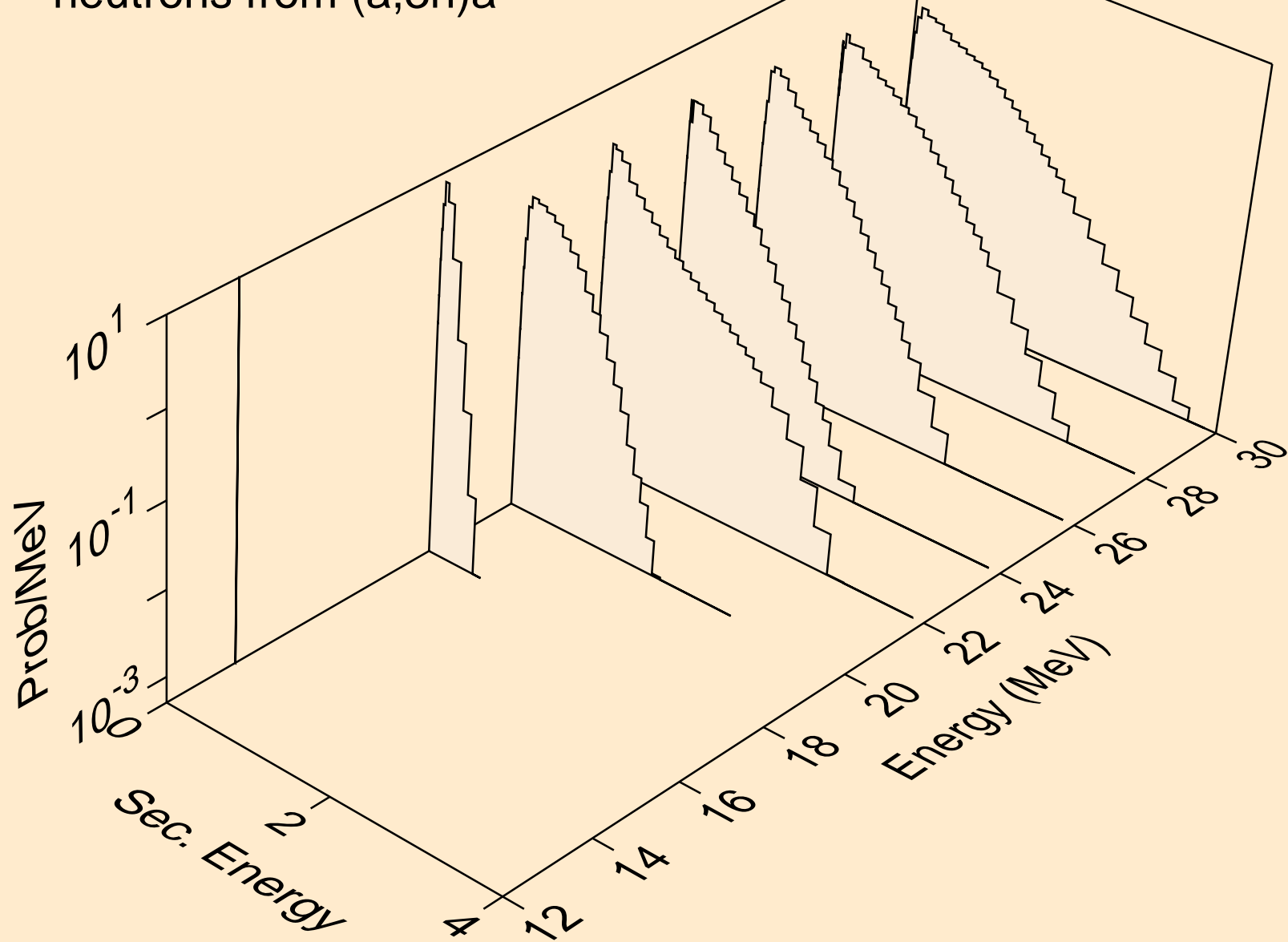
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)a



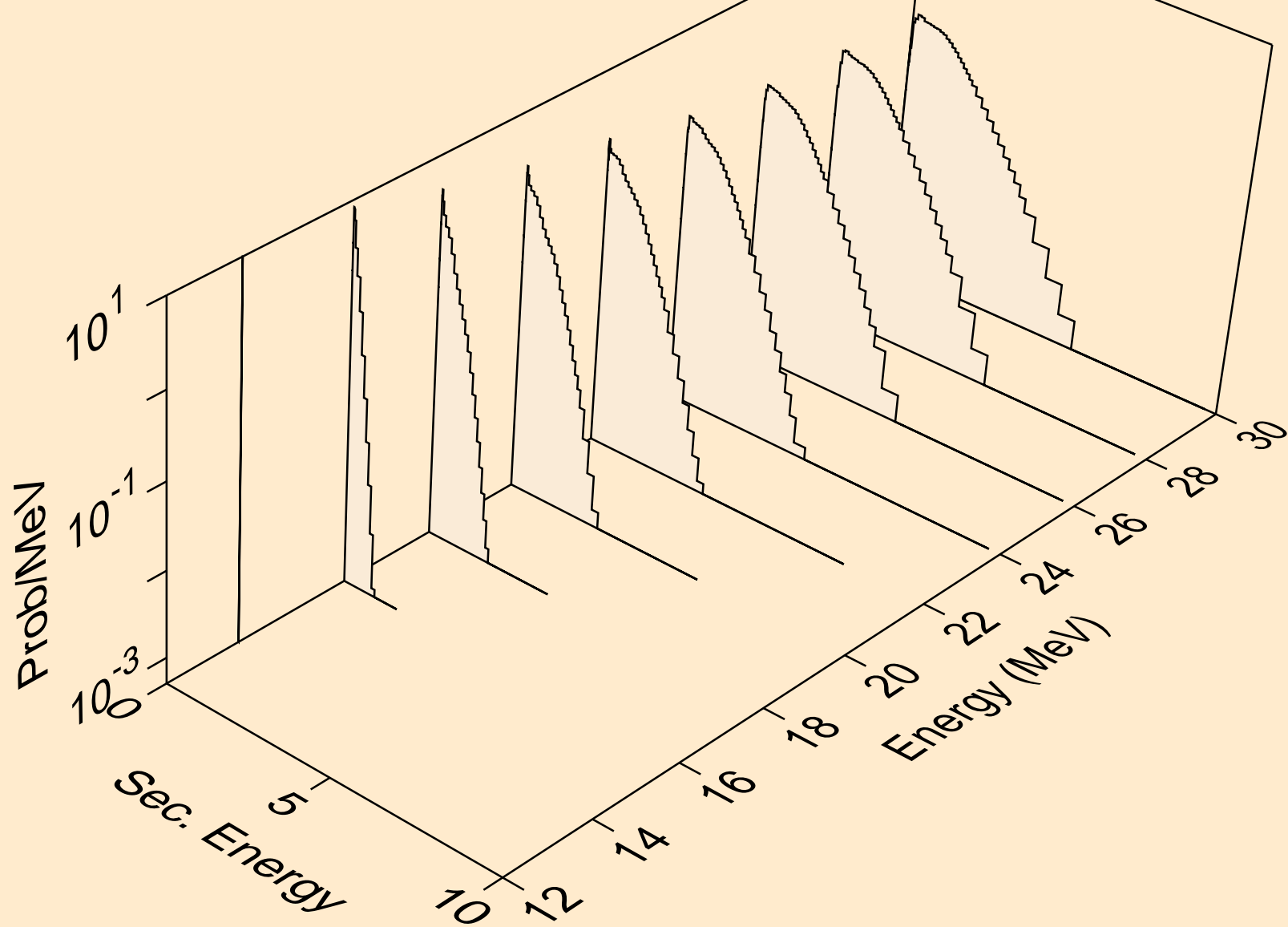
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2n)a



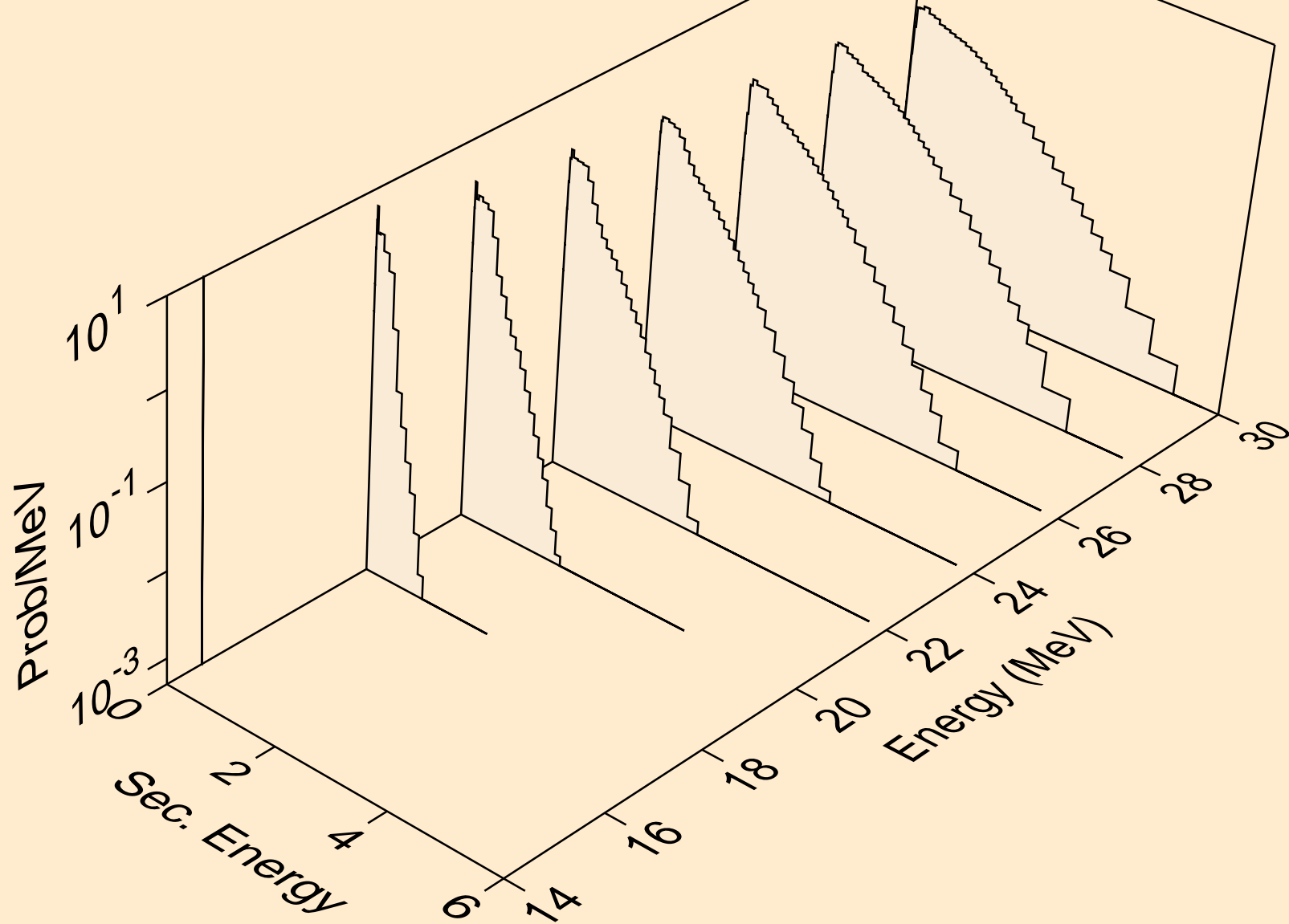
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,3n)a



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)p

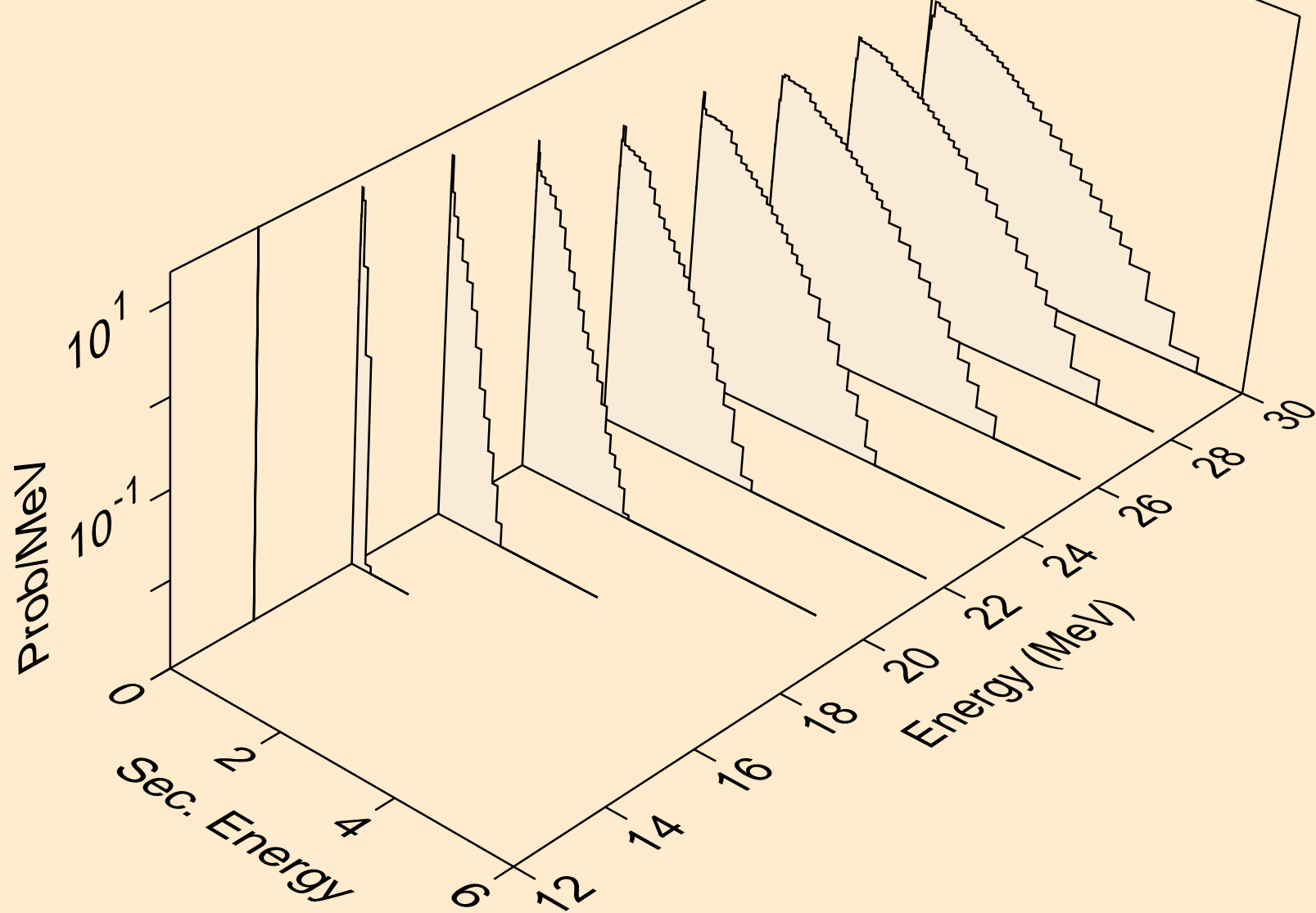


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)d

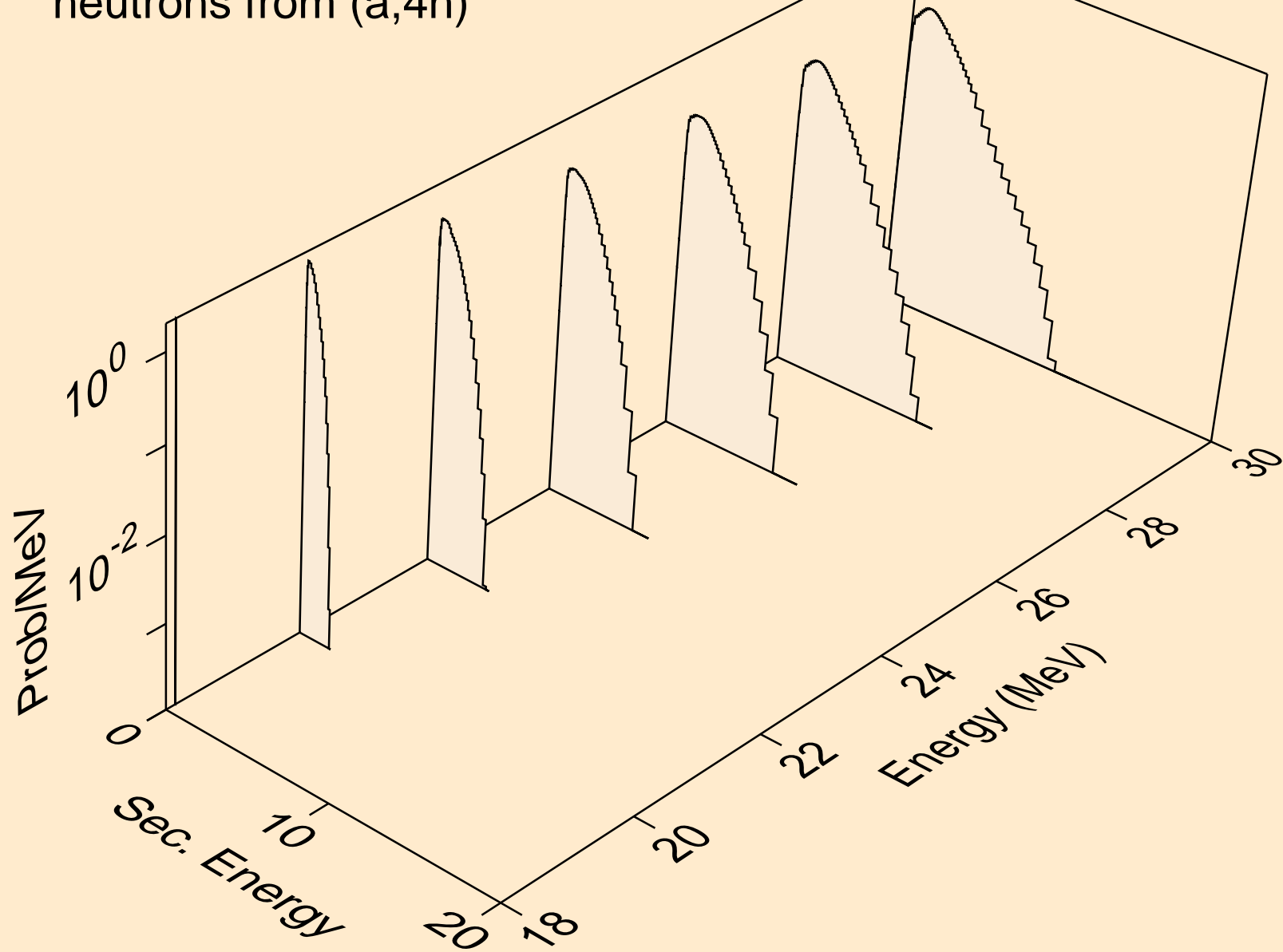




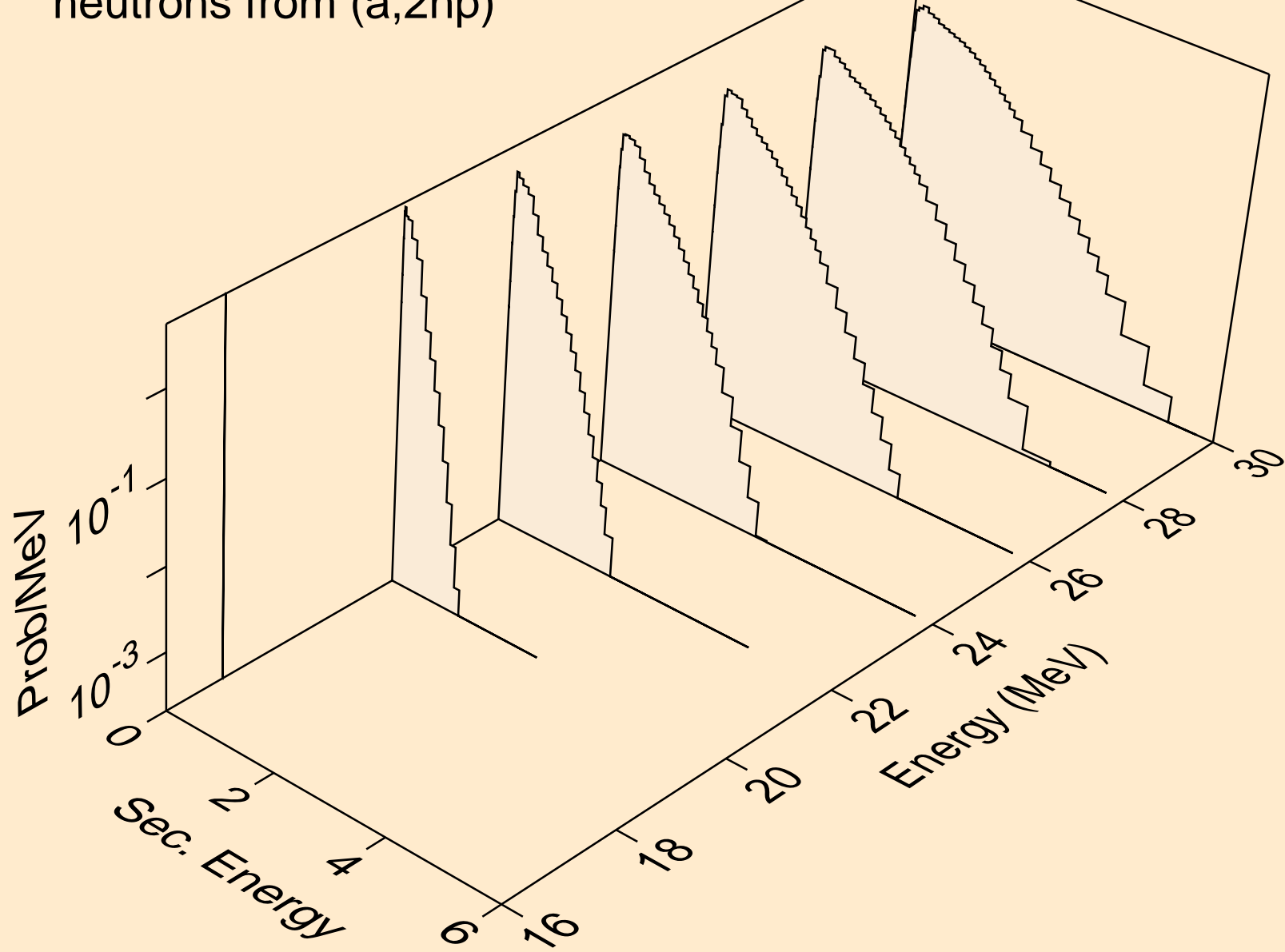
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neutrons from (a,n\*)t



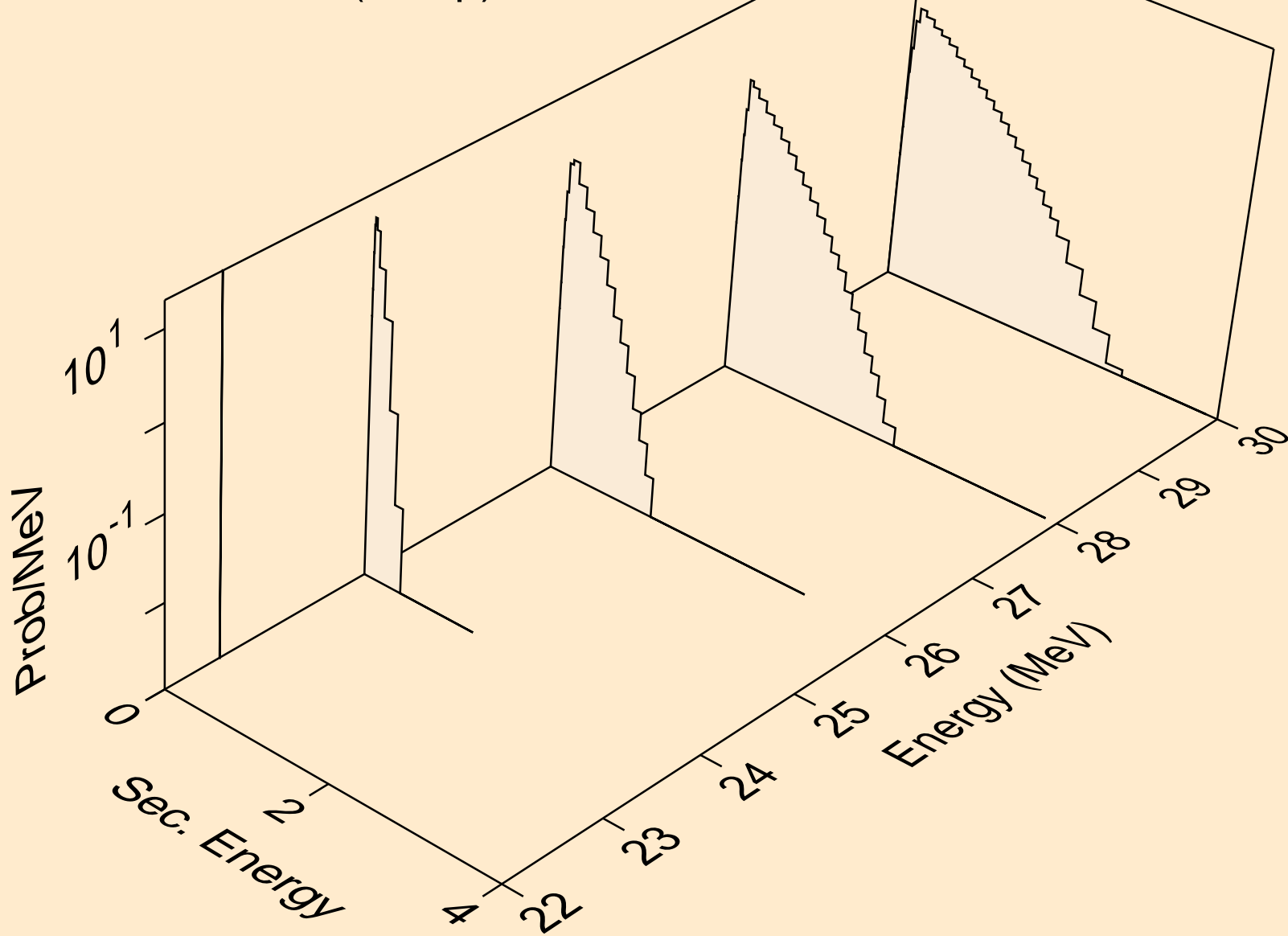
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,4n)



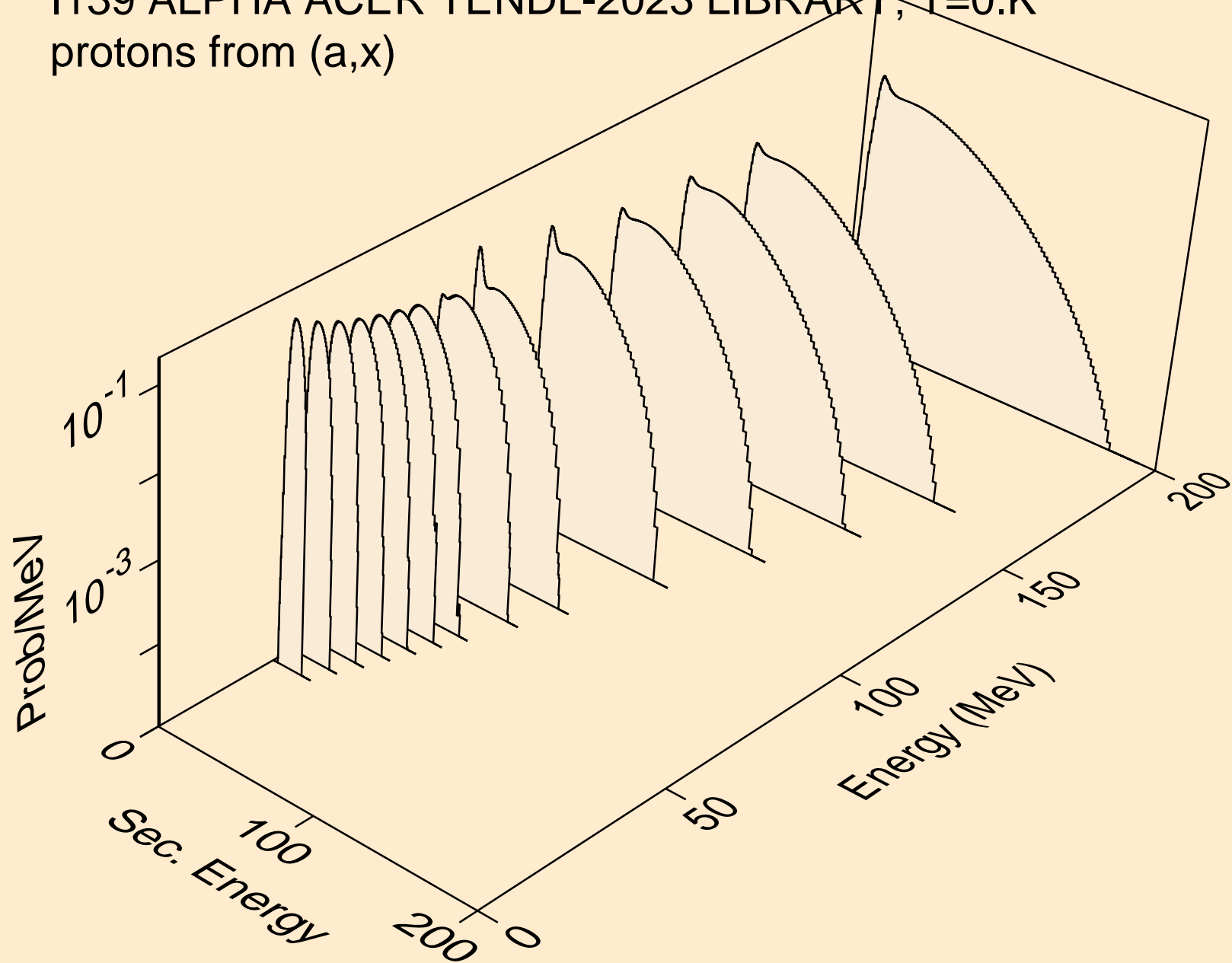
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neutrons from (a,2np)



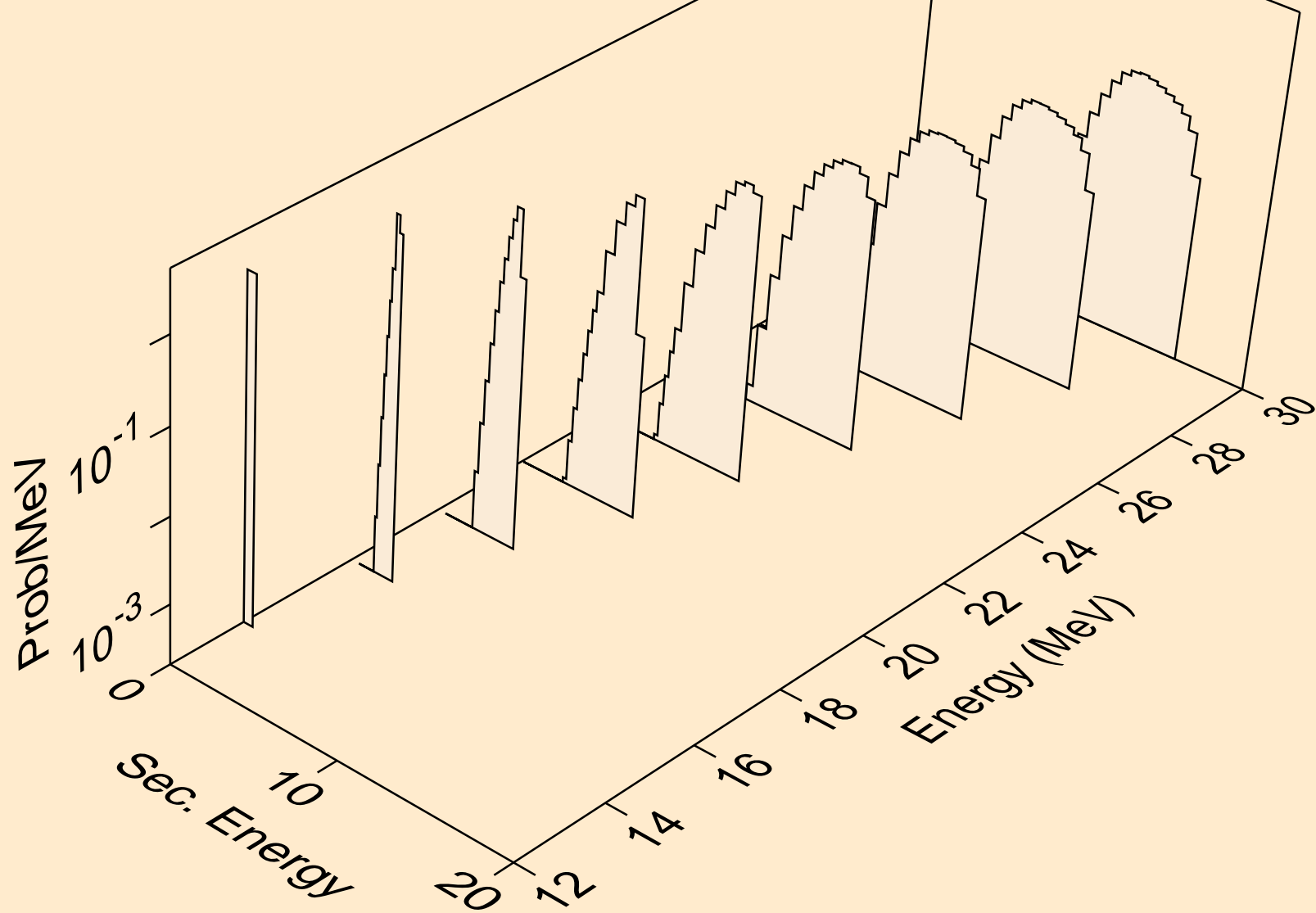
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neutrons from (a,3np)



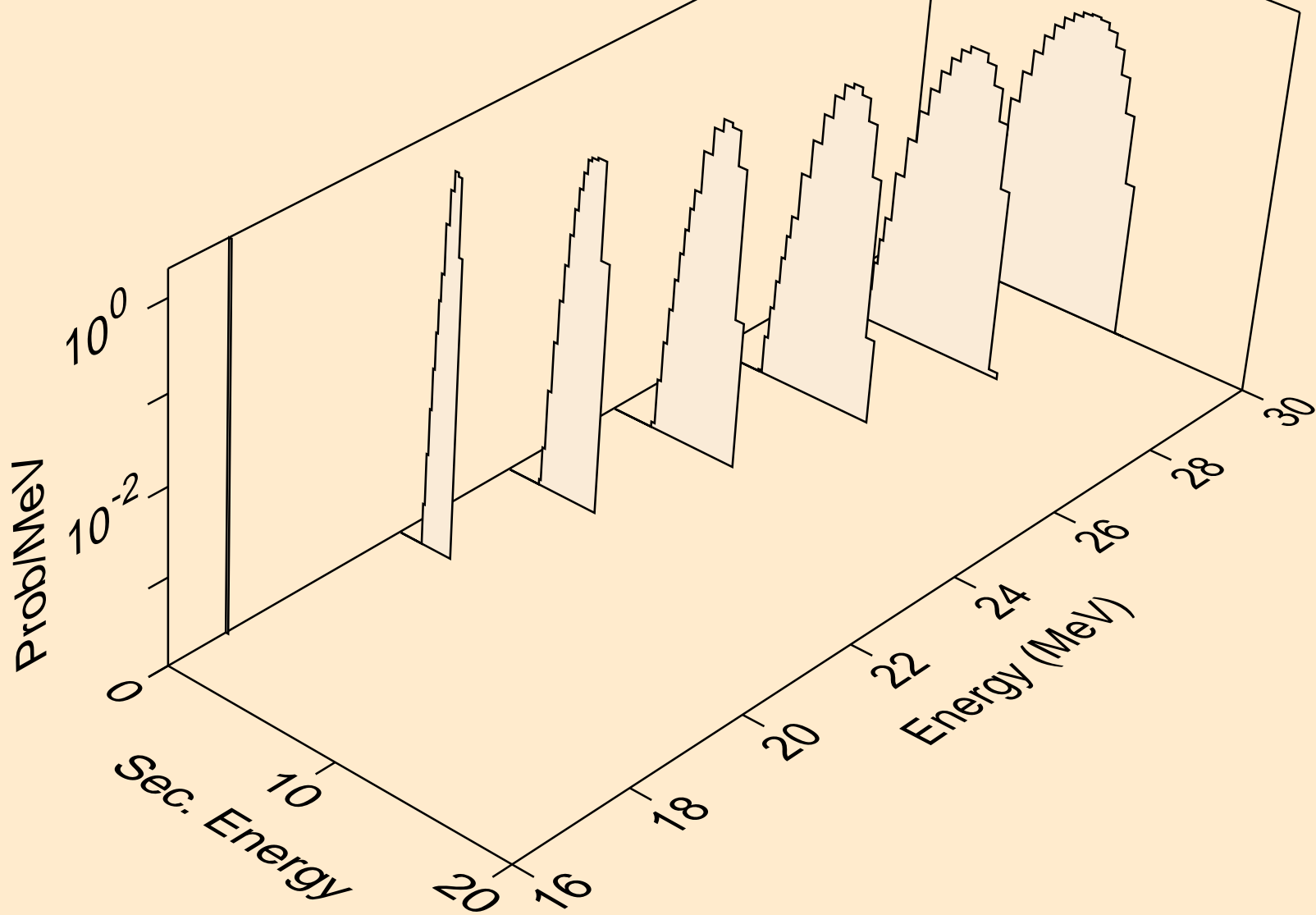
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,x)



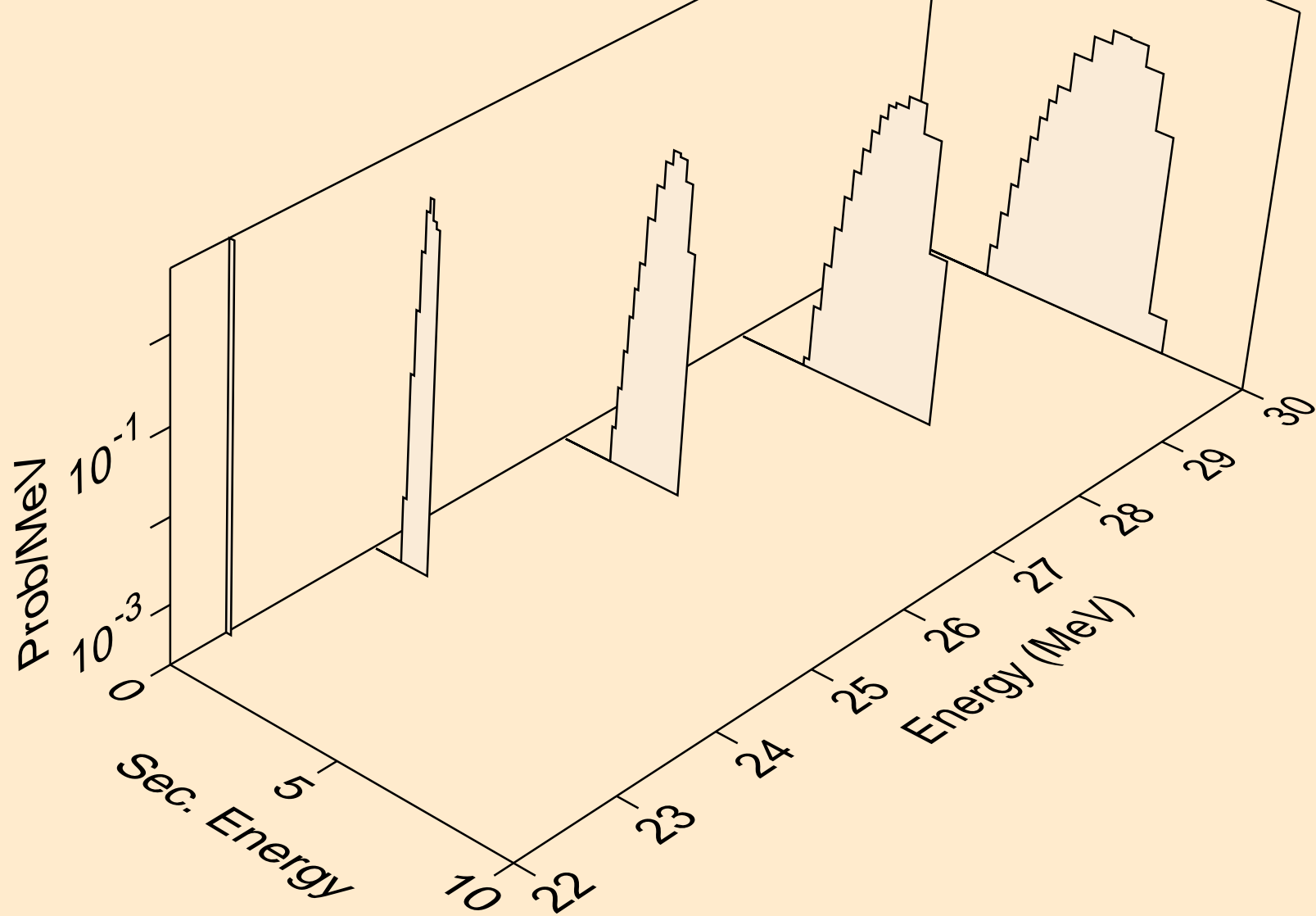
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,n\*)p



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,2np)

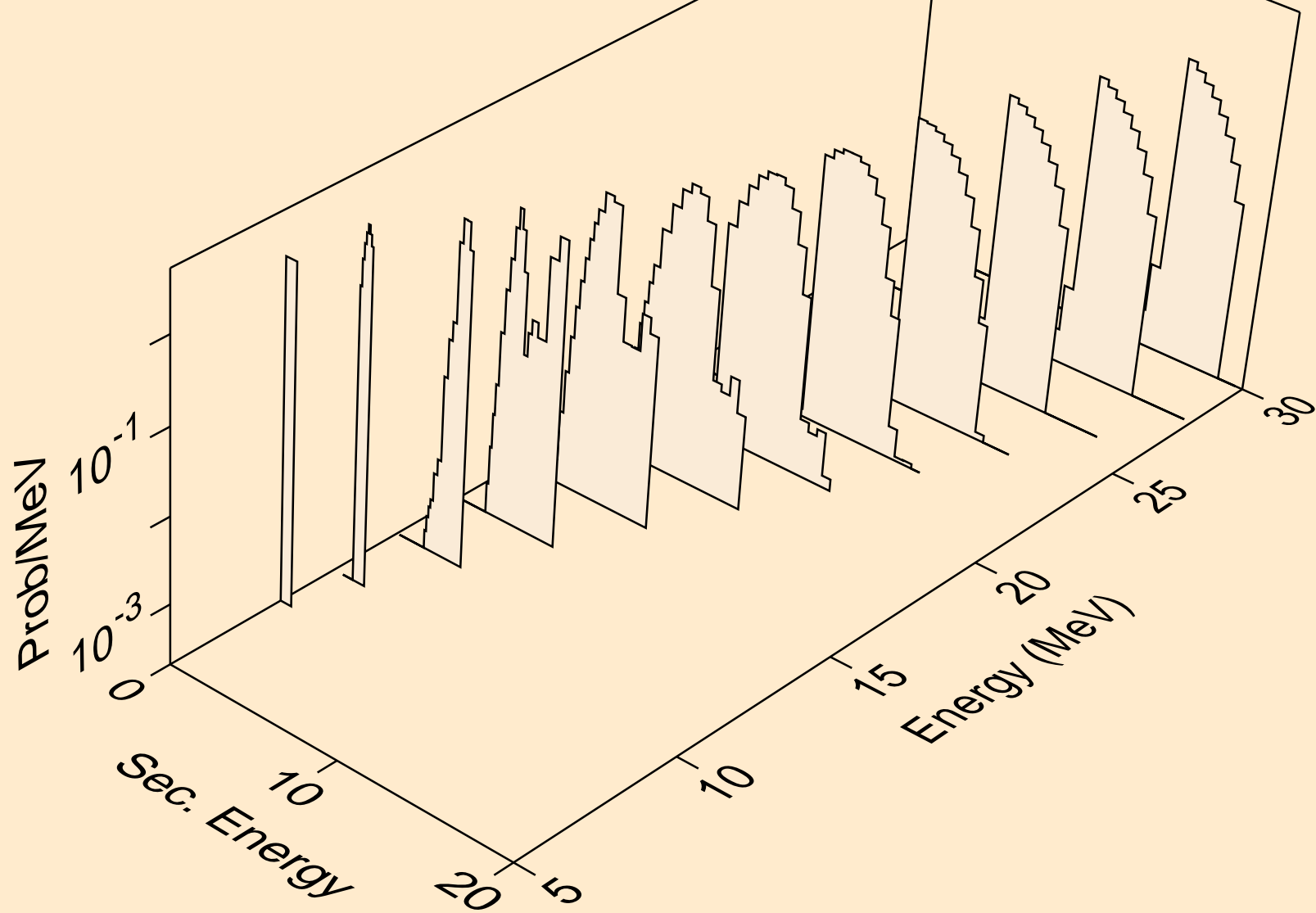


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,3np)

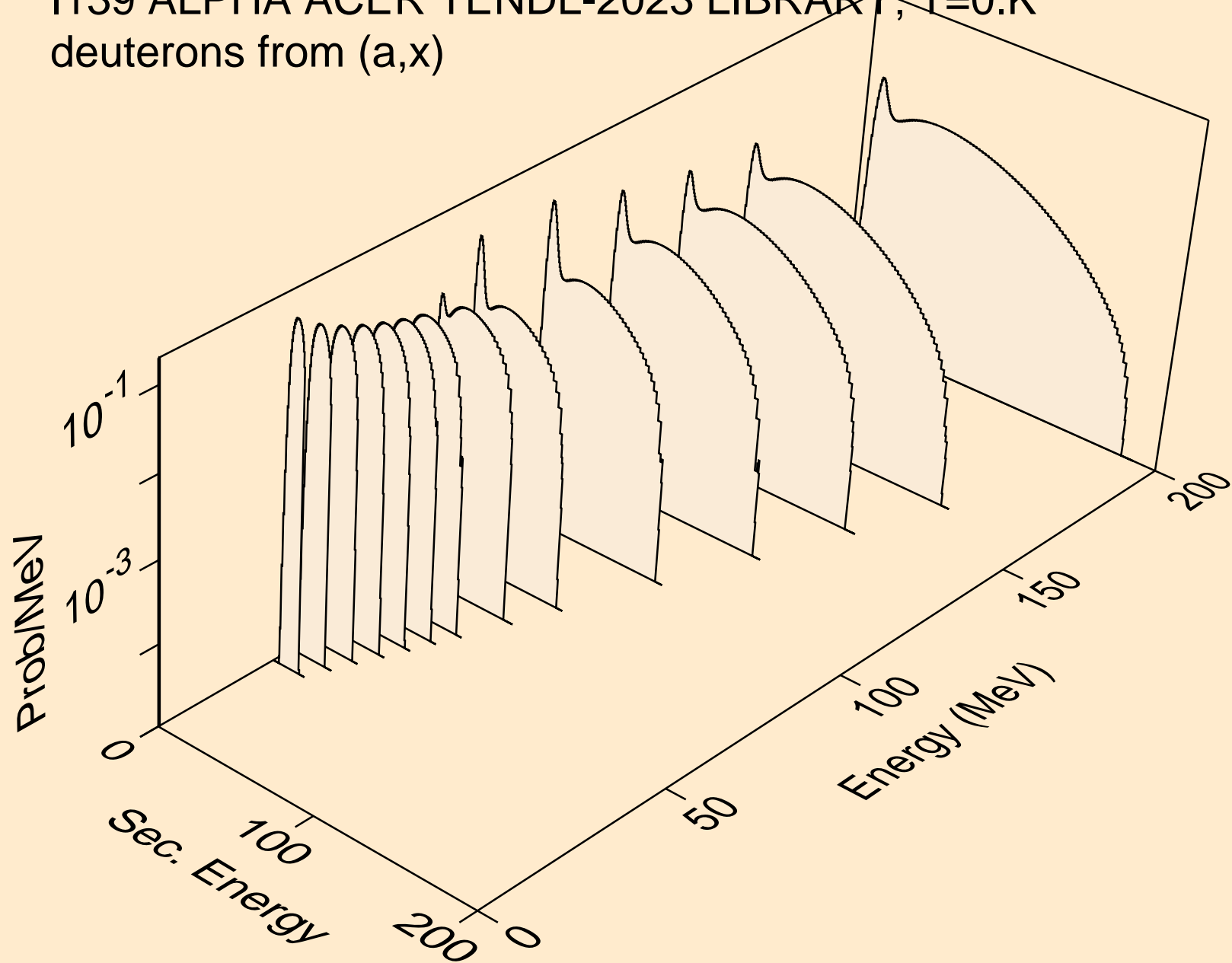




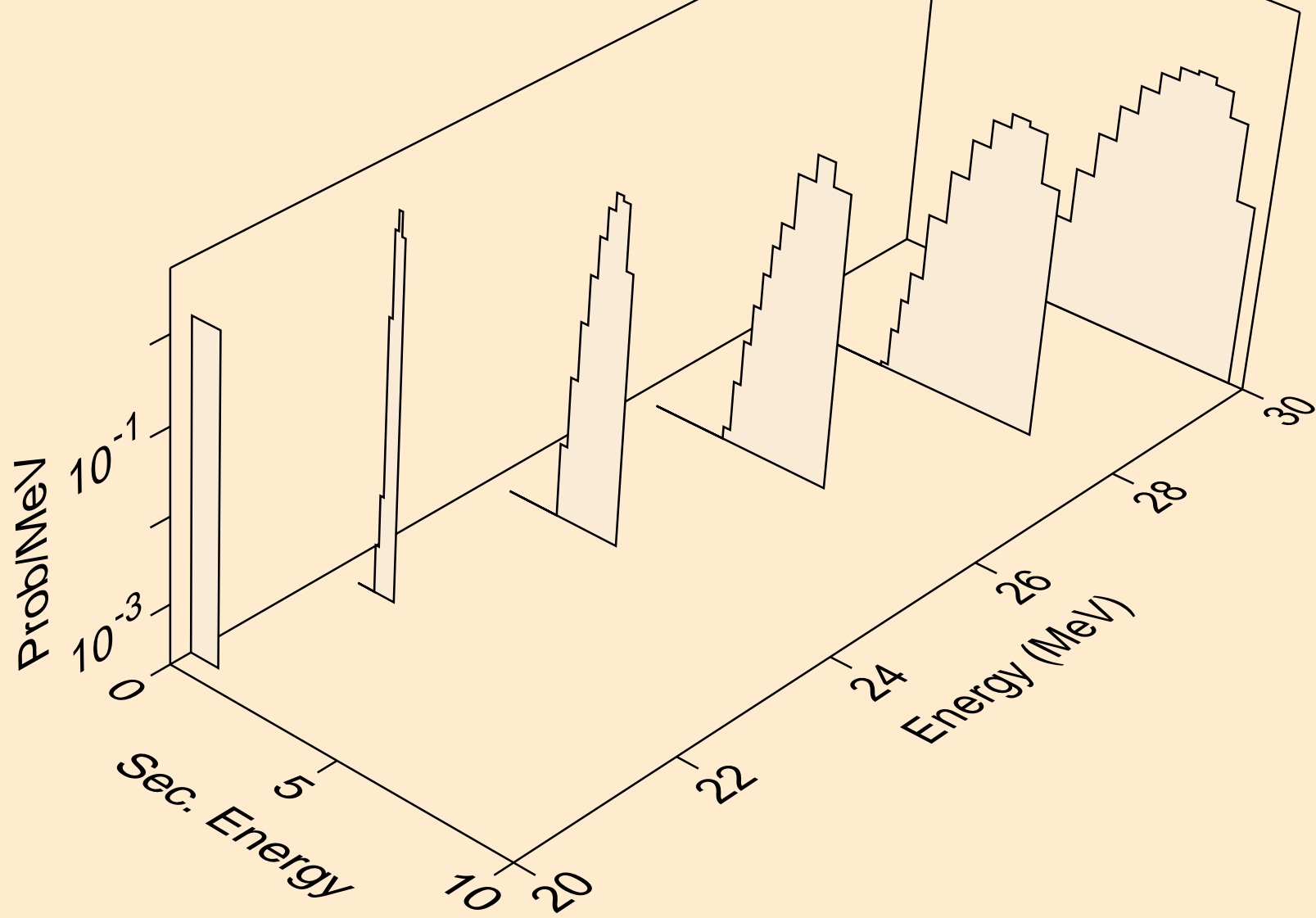
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,p)



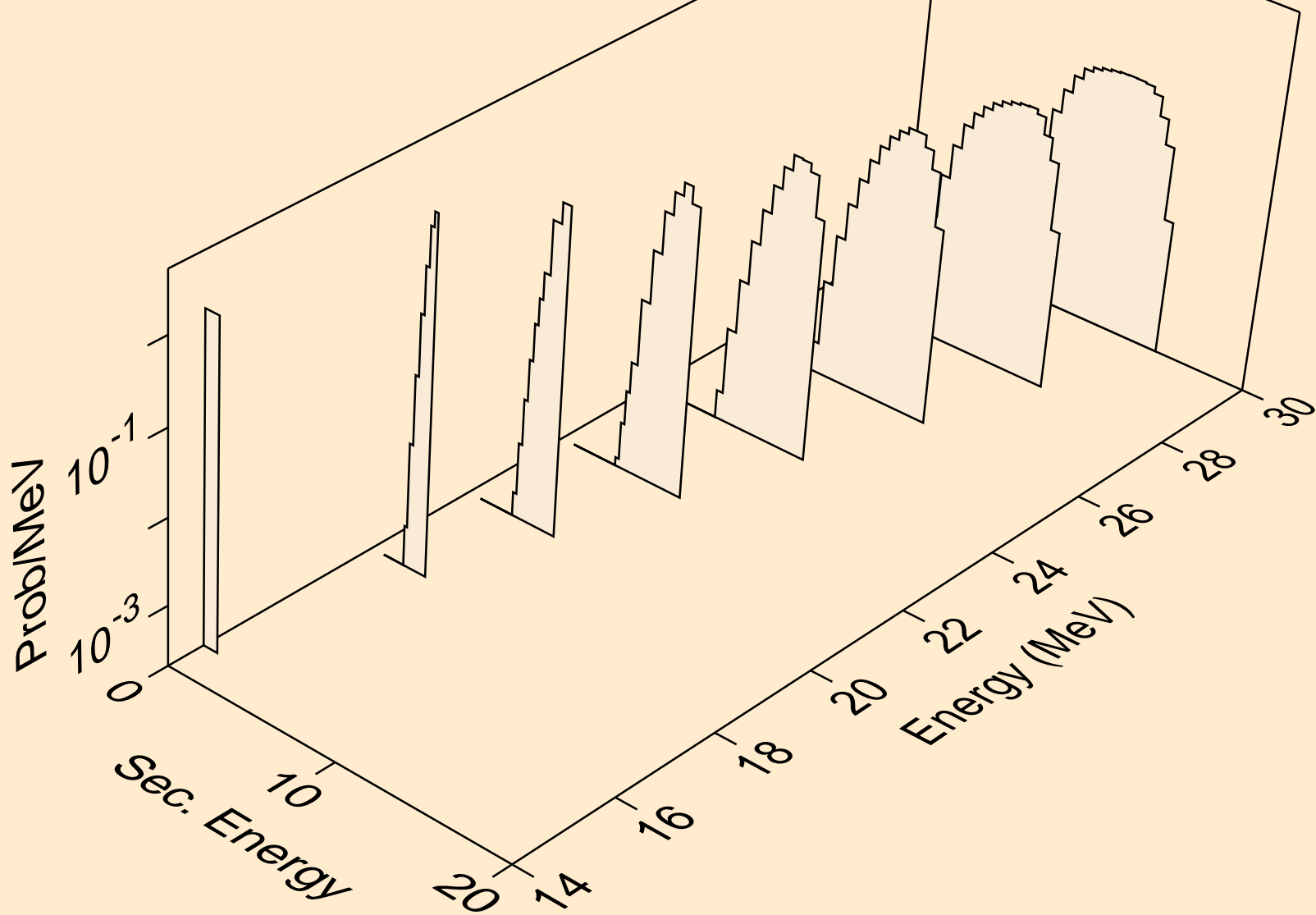
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,x)



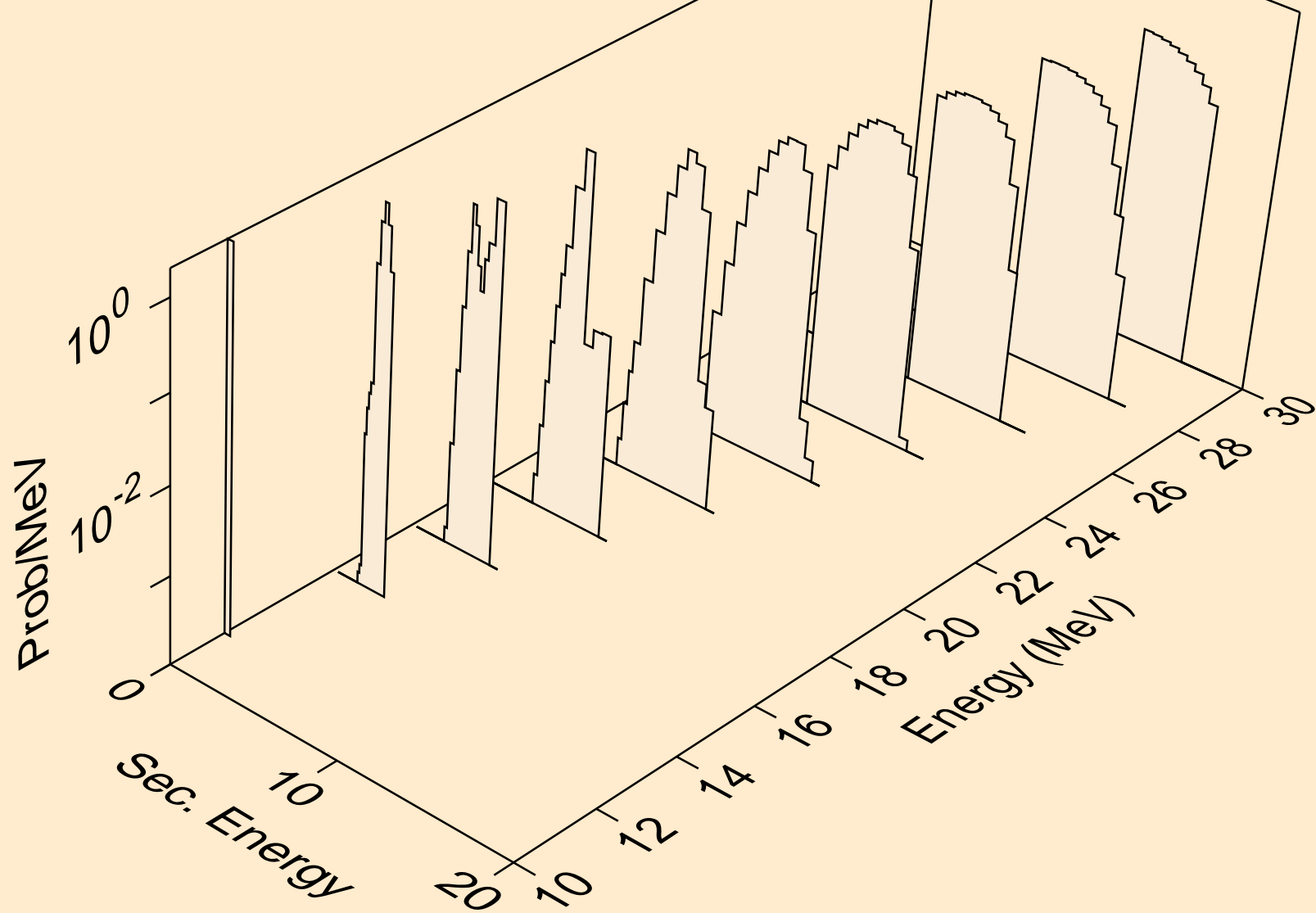
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,2nd)



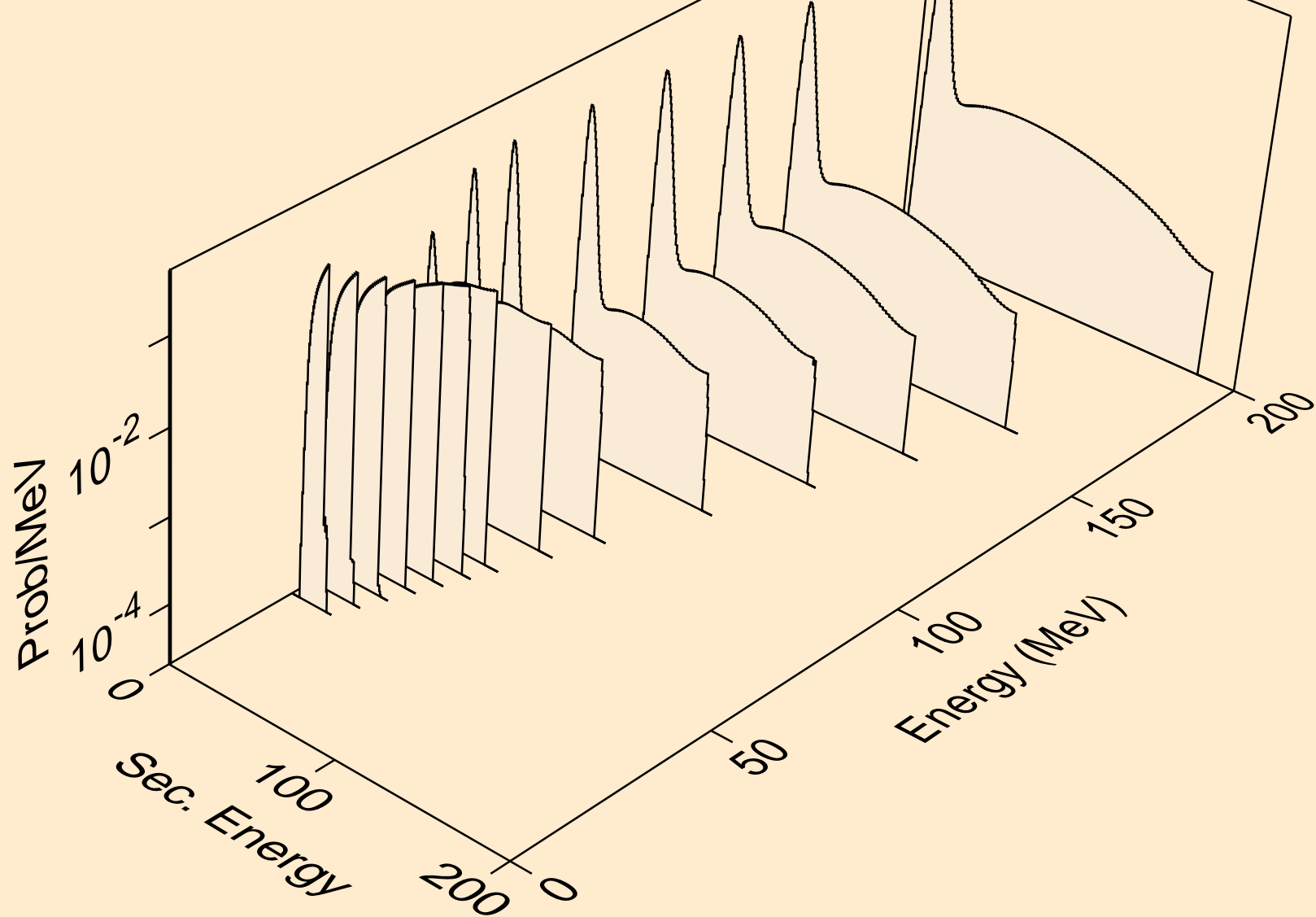
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,n\*)d



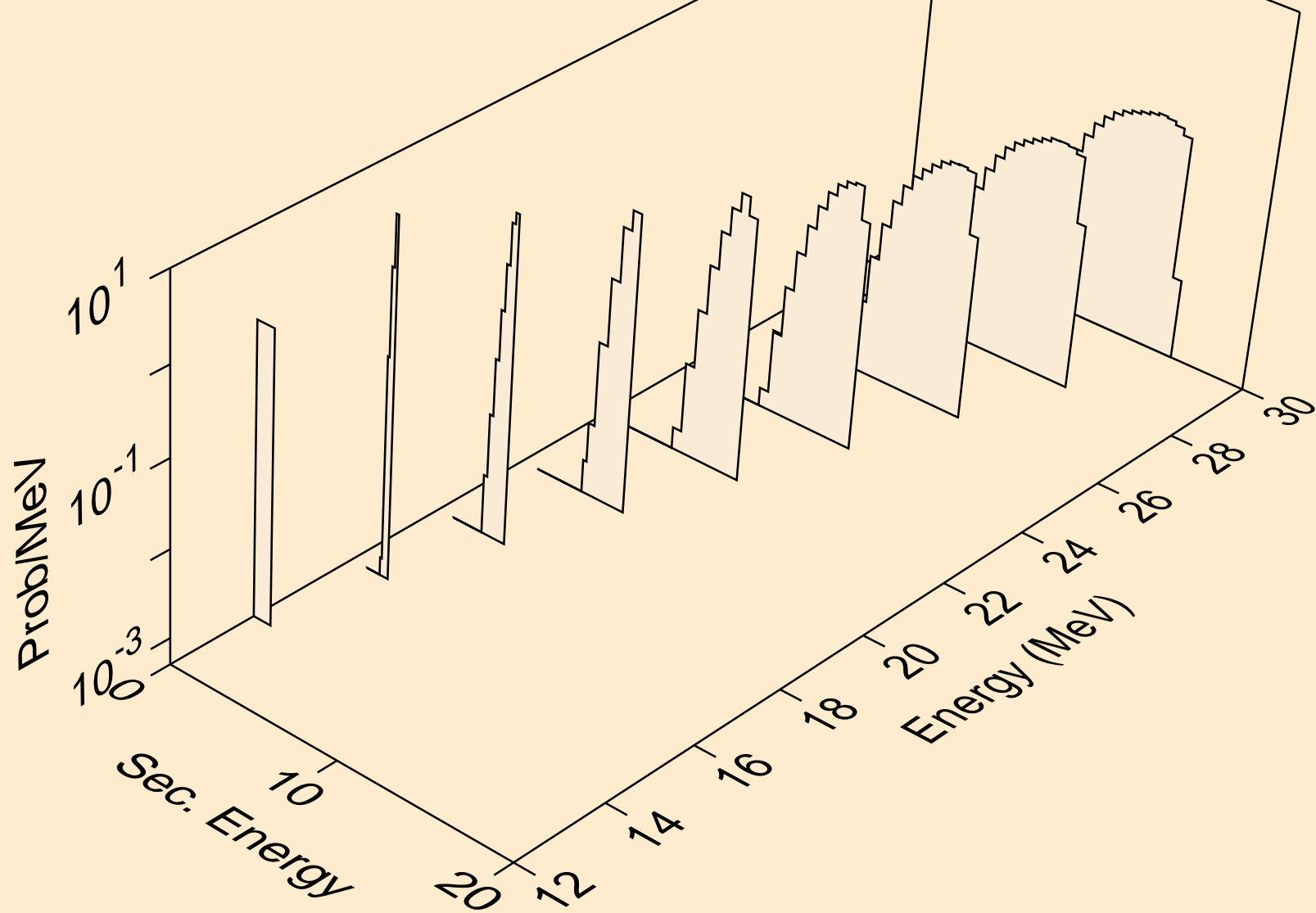
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,d)



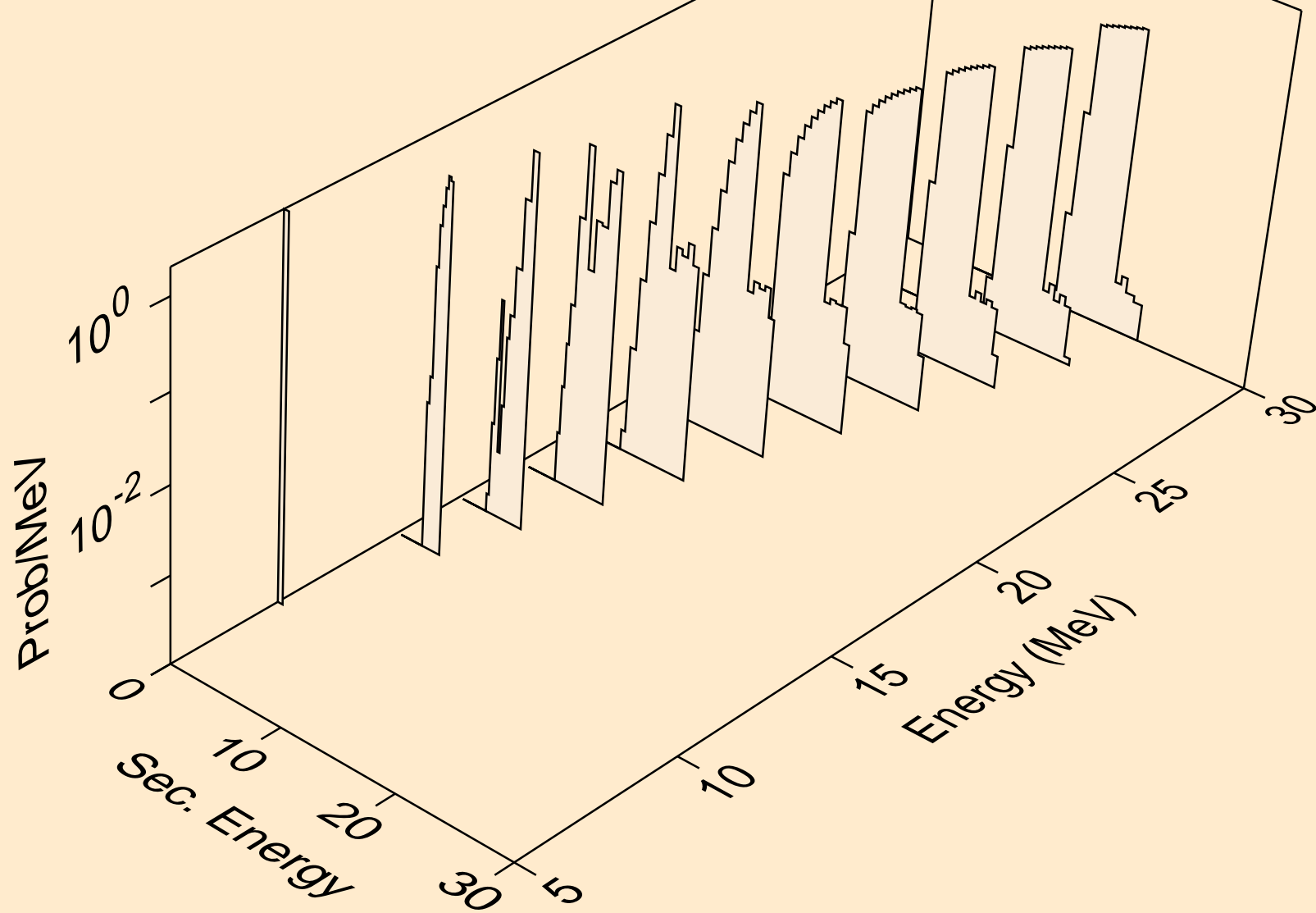
I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,x)



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,n\*)t

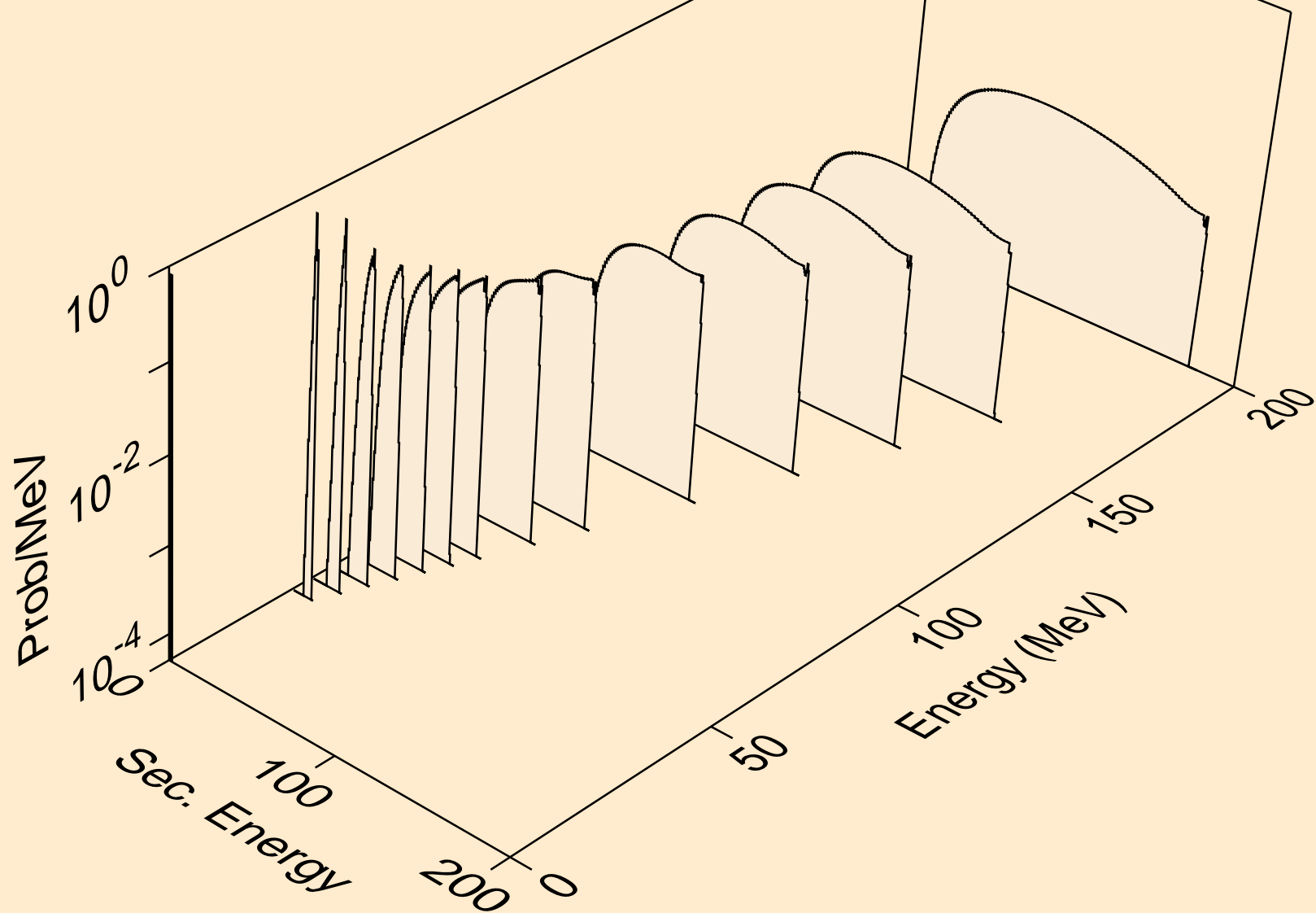


I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,t)





I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,x)



I139 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,he3)

