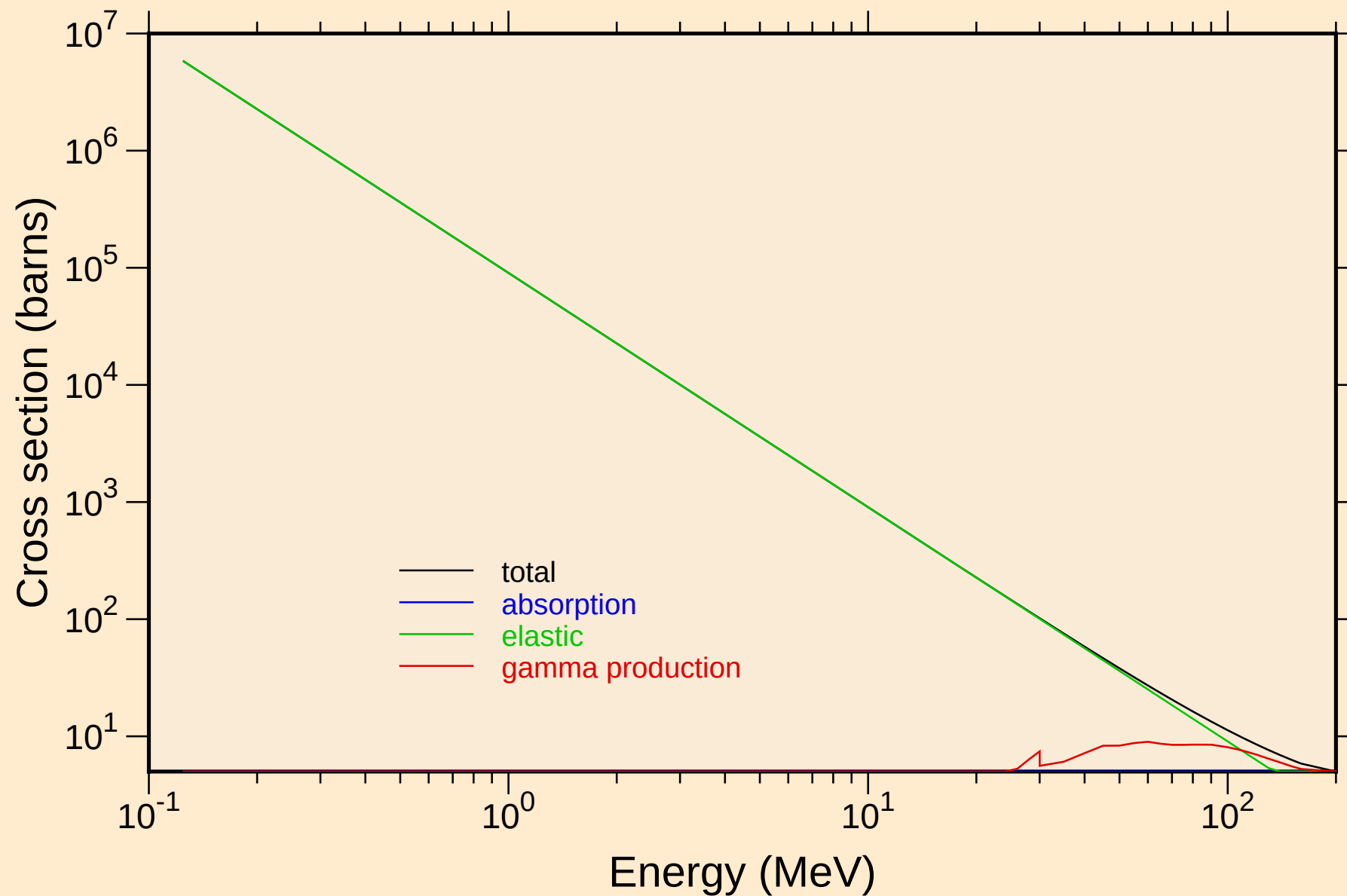


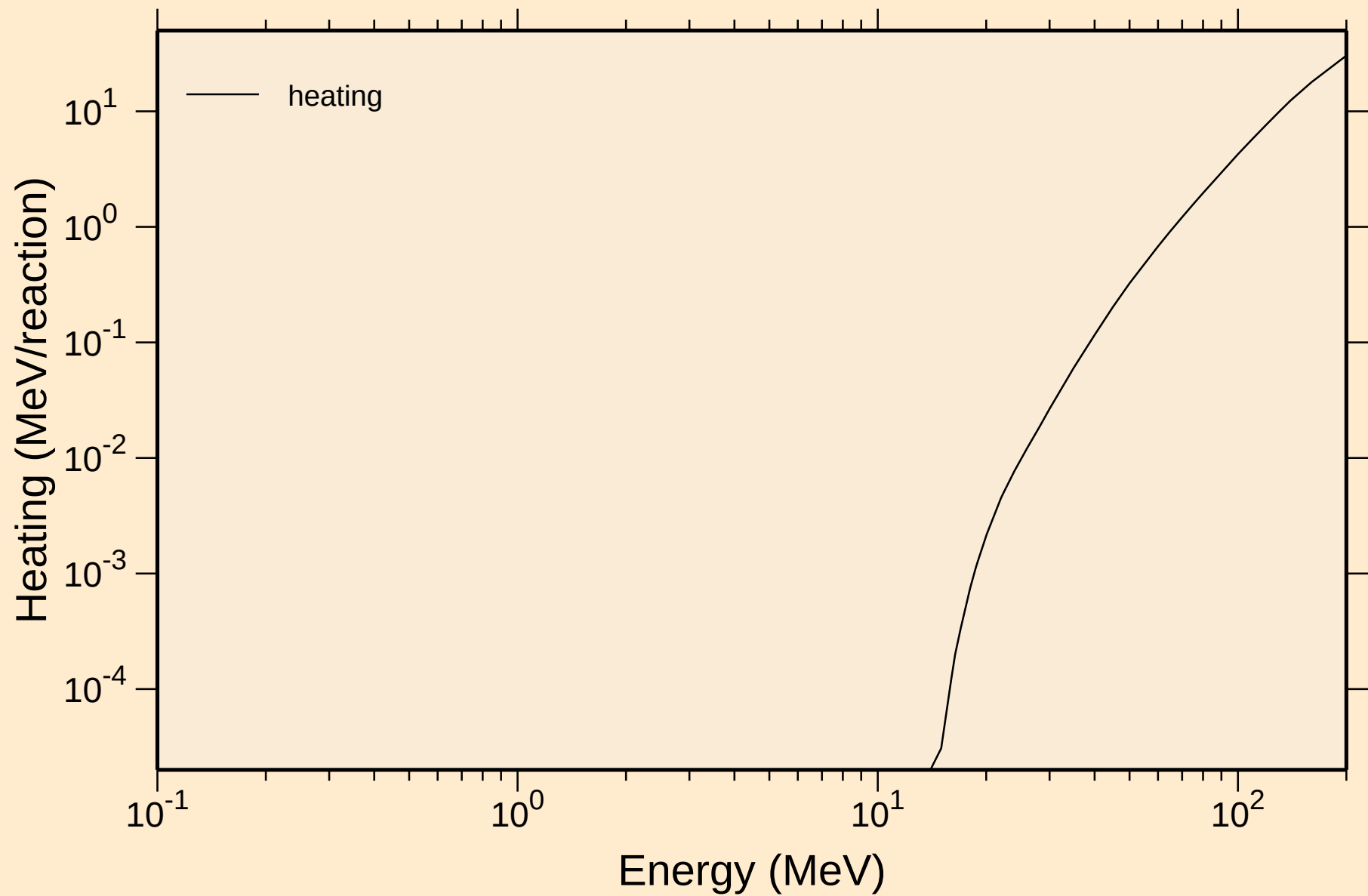
# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



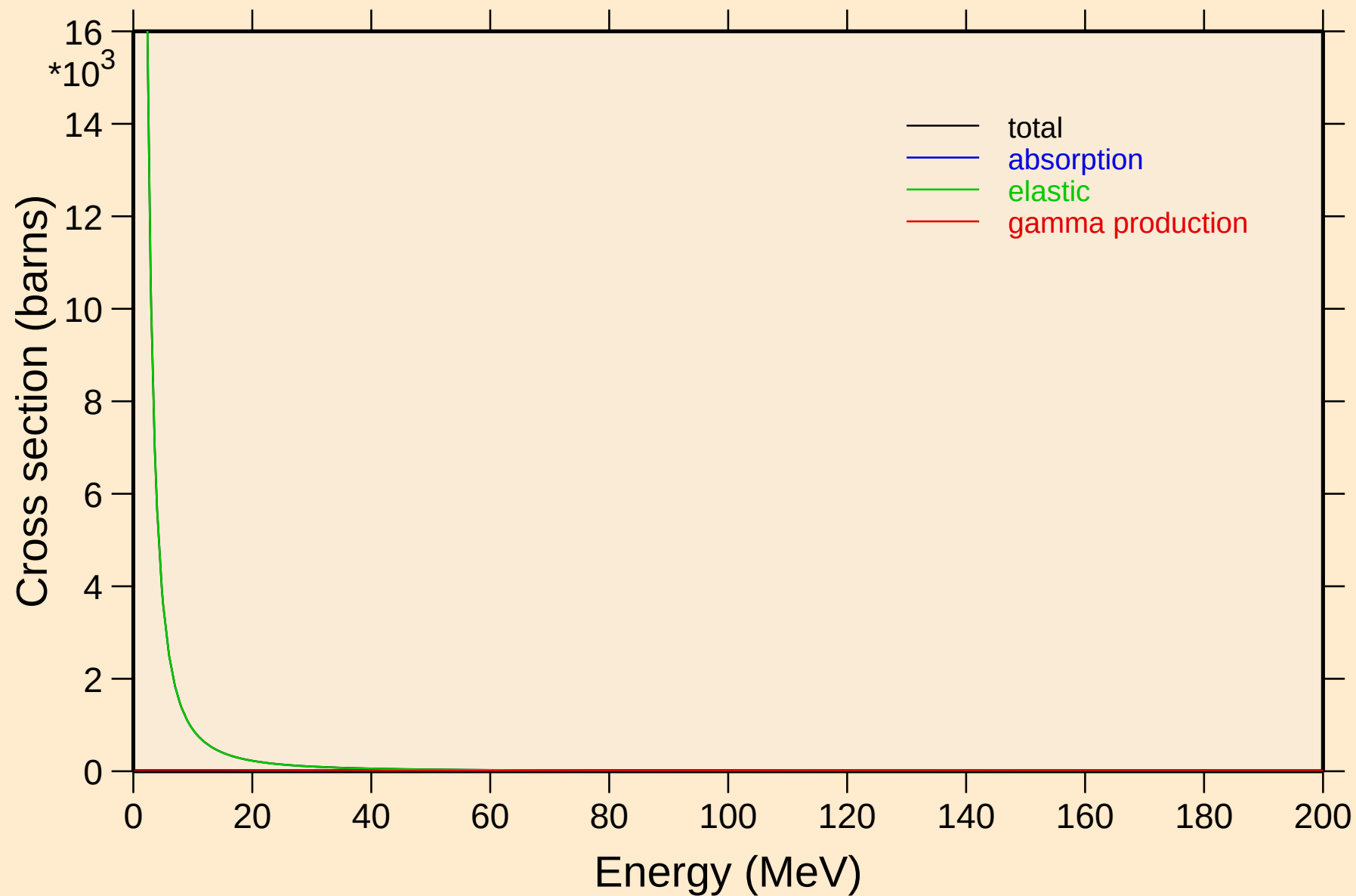
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

Heating



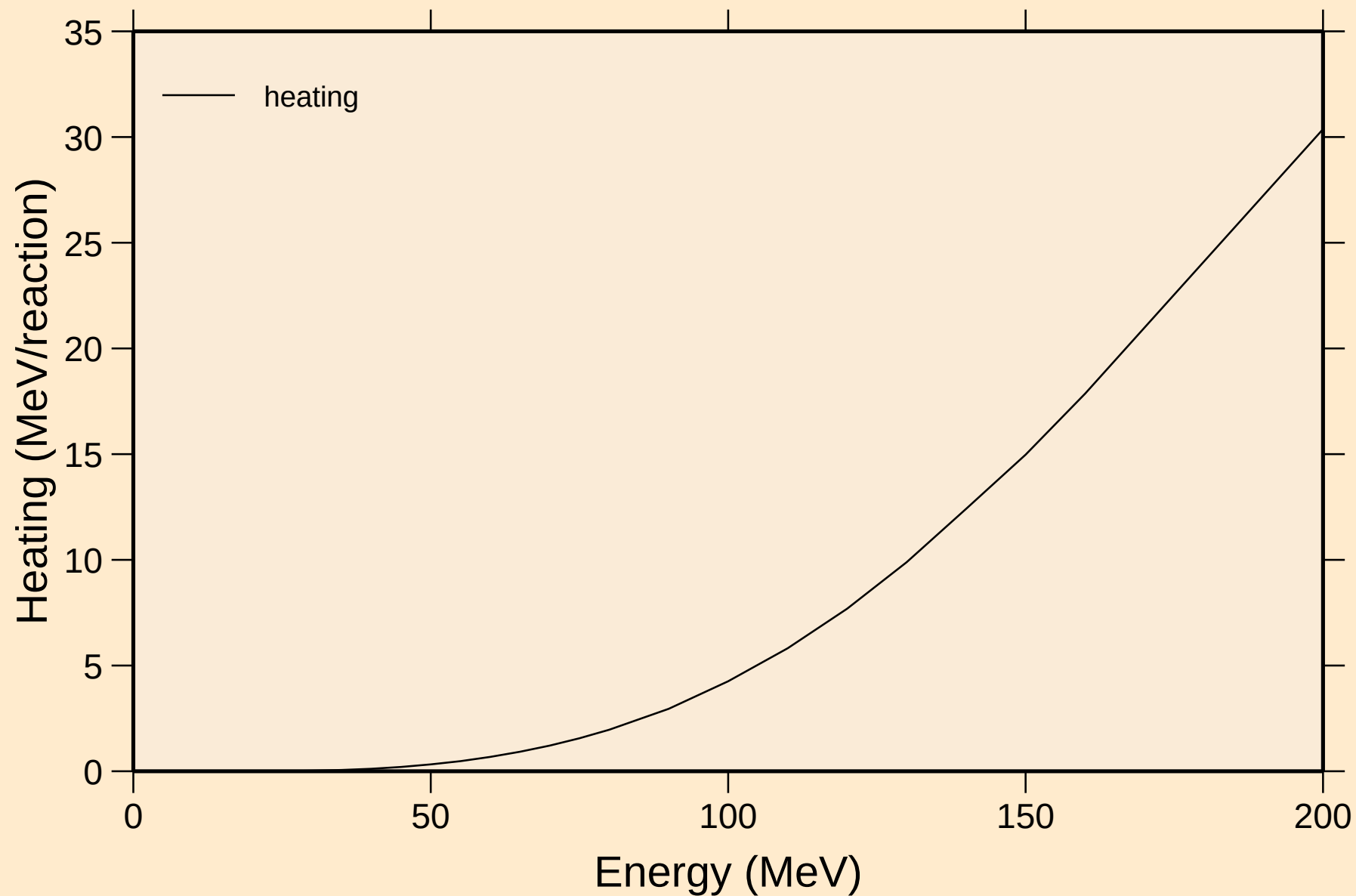
# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



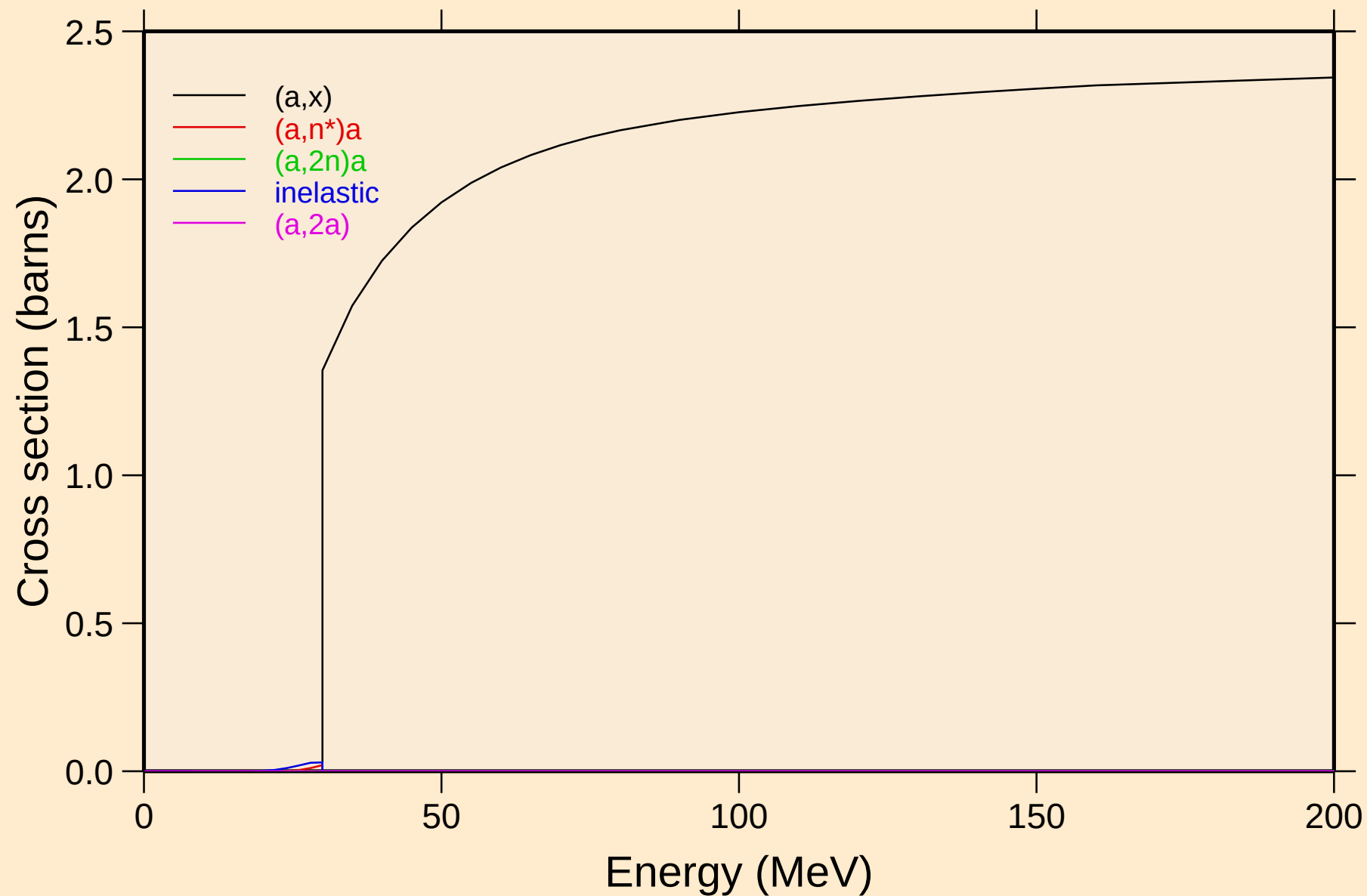
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

Heating

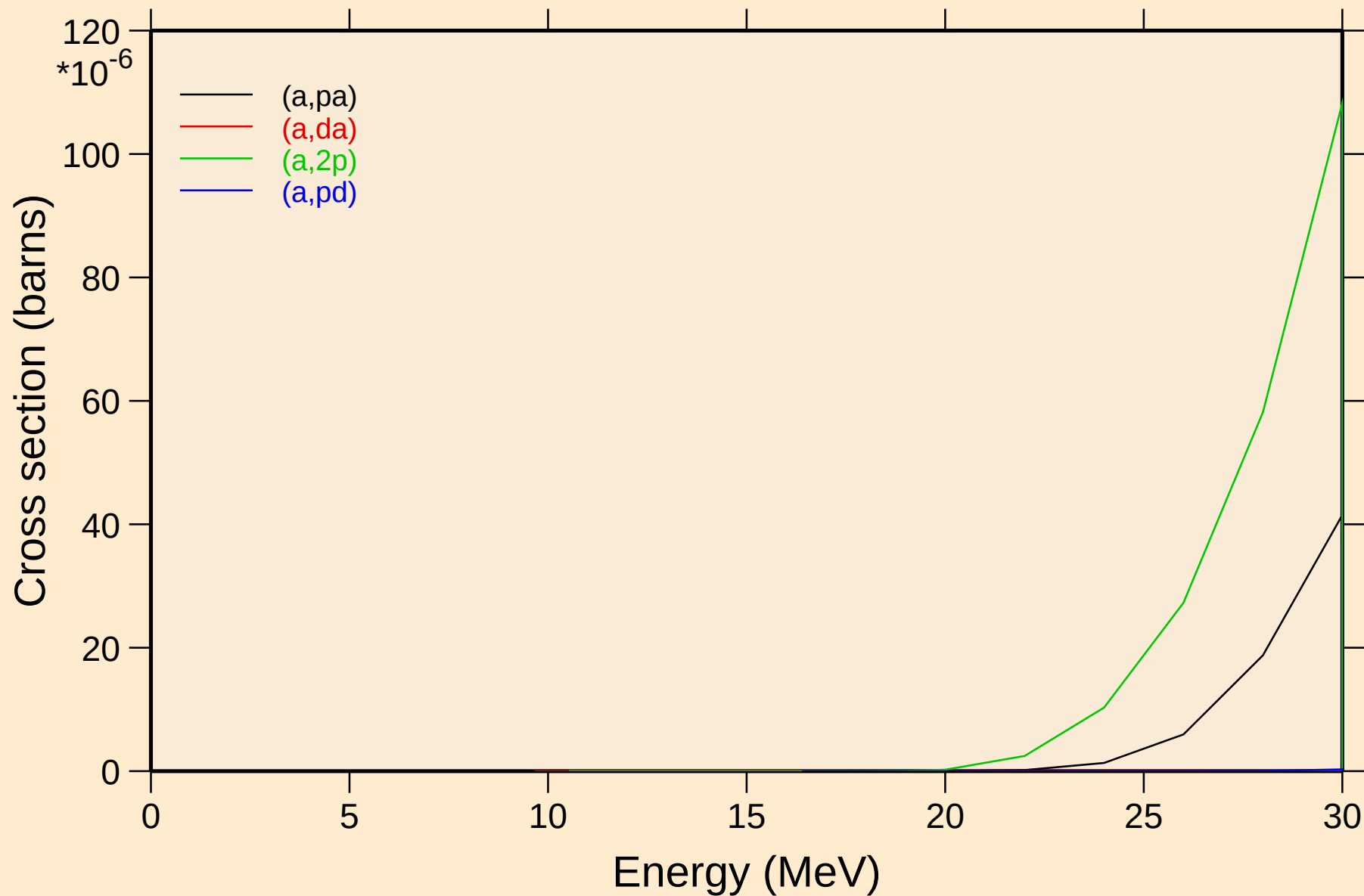


# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

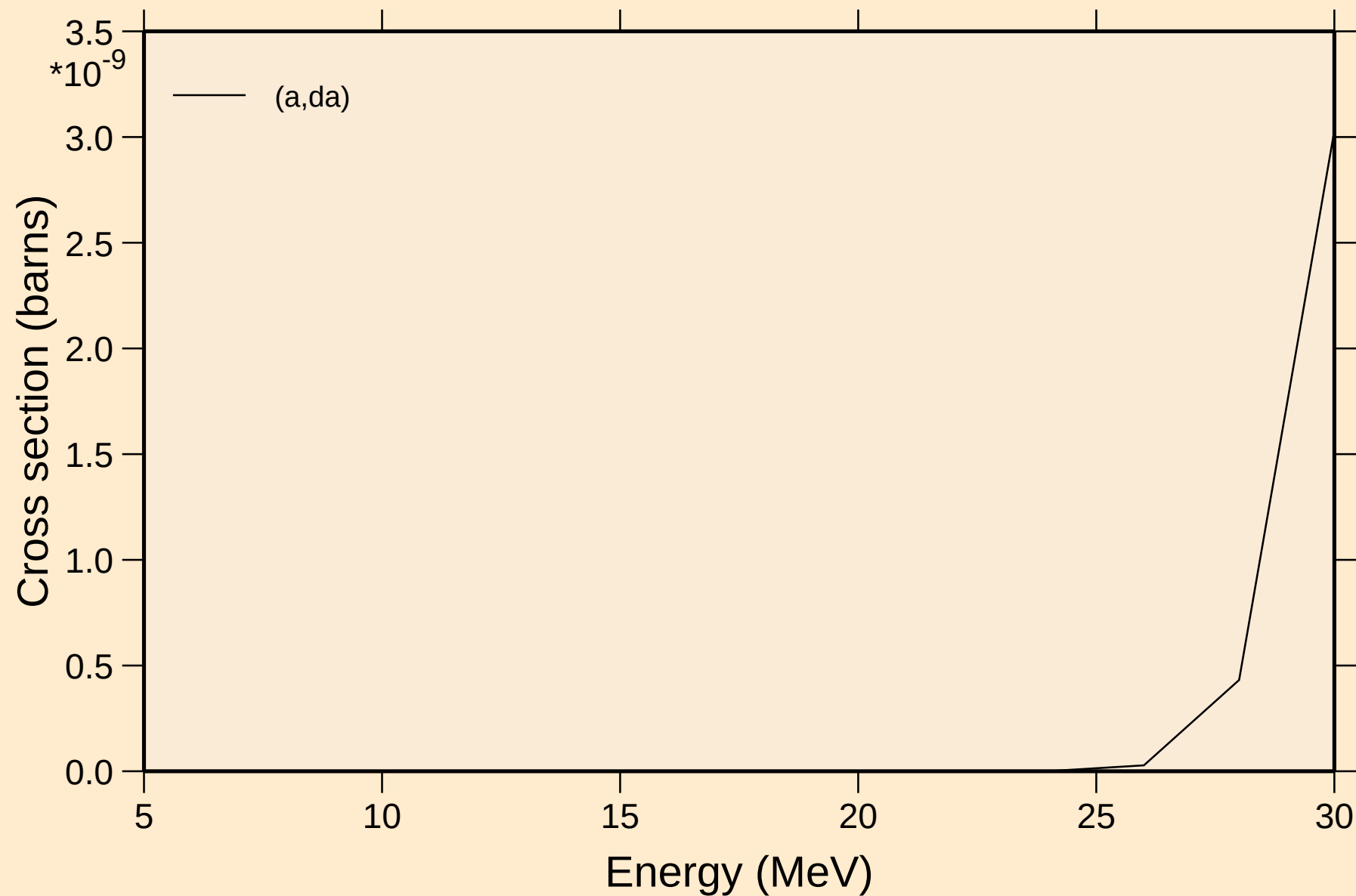


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

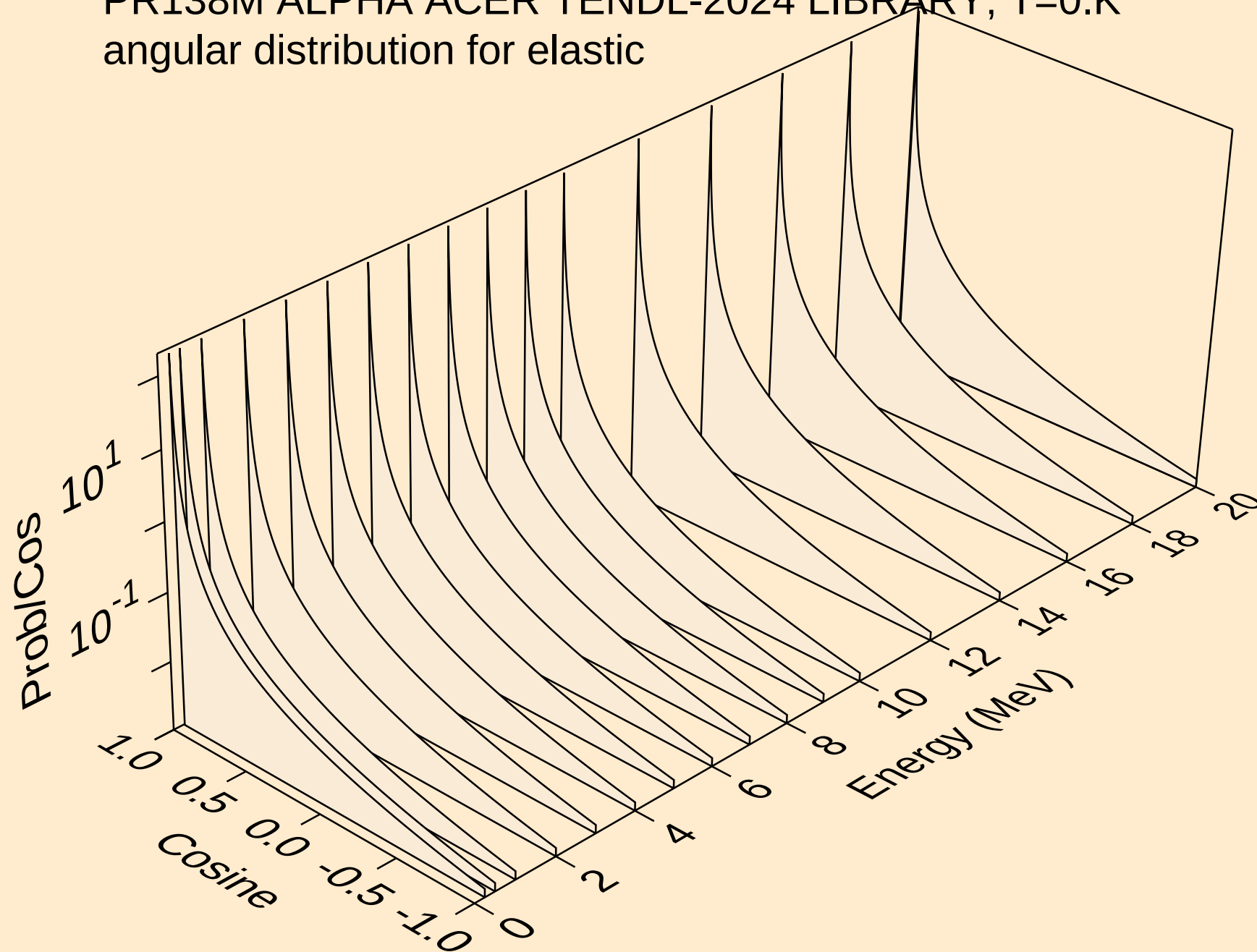


# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions

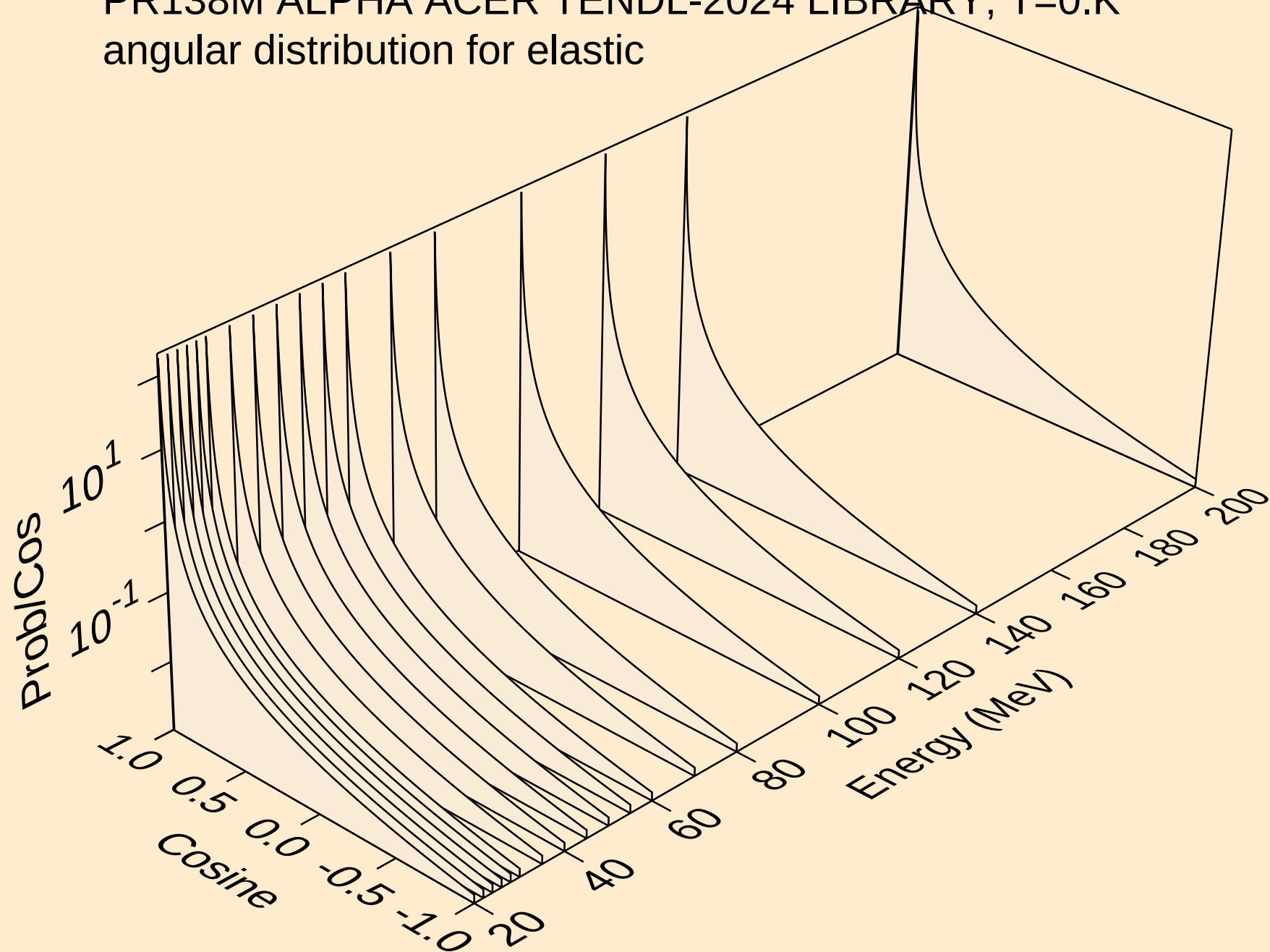


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



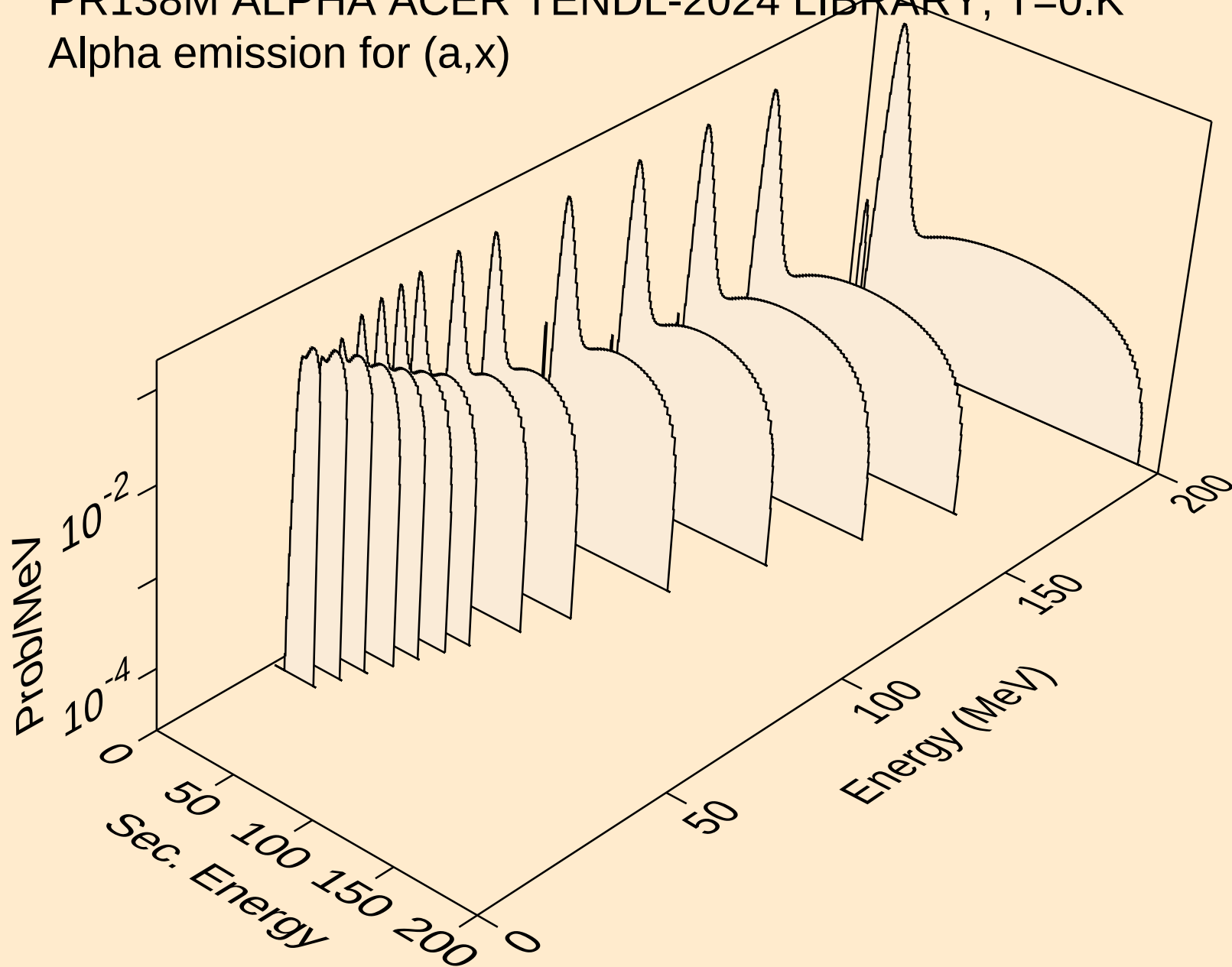


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



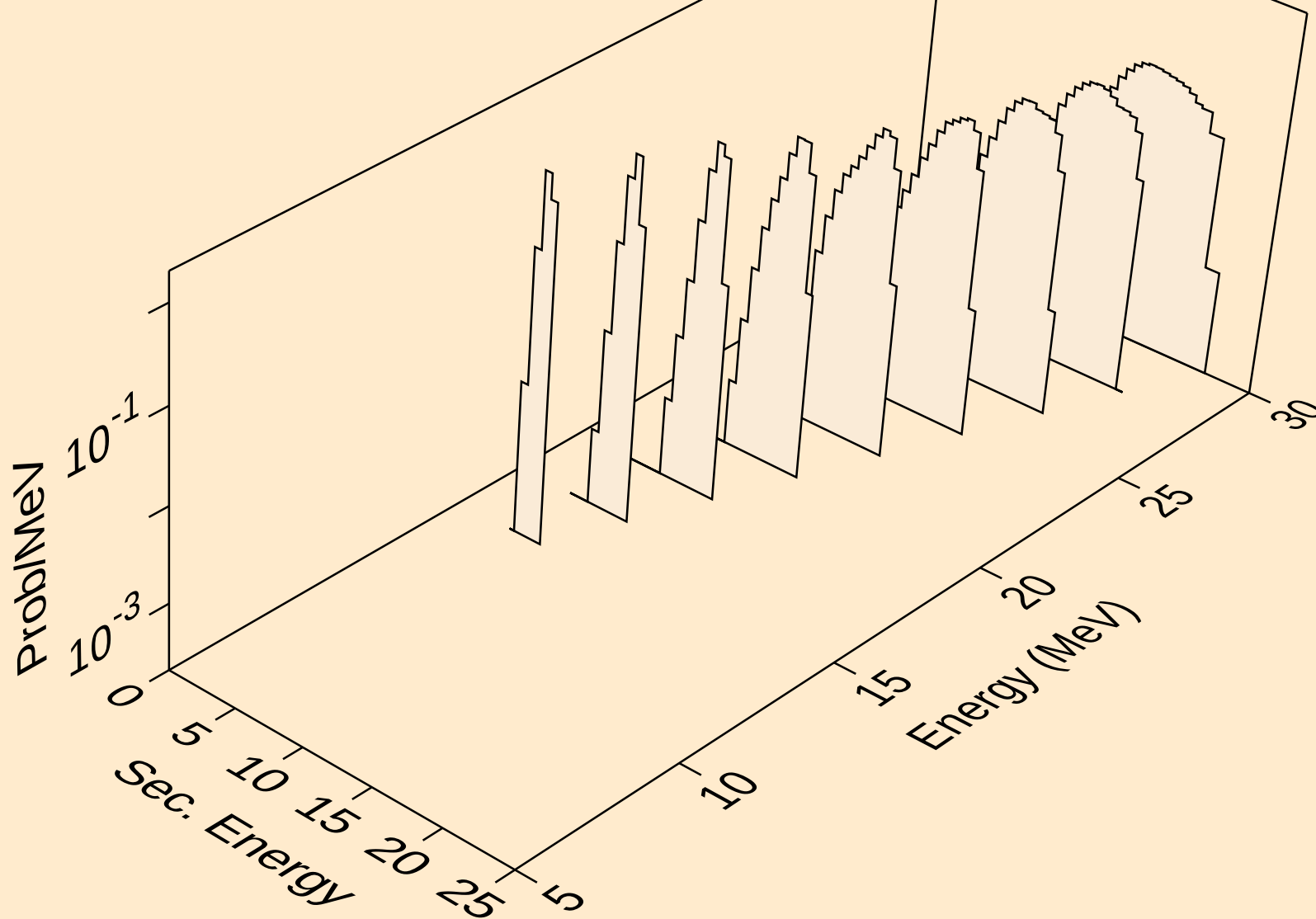
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

Alpha emission for (a,x)



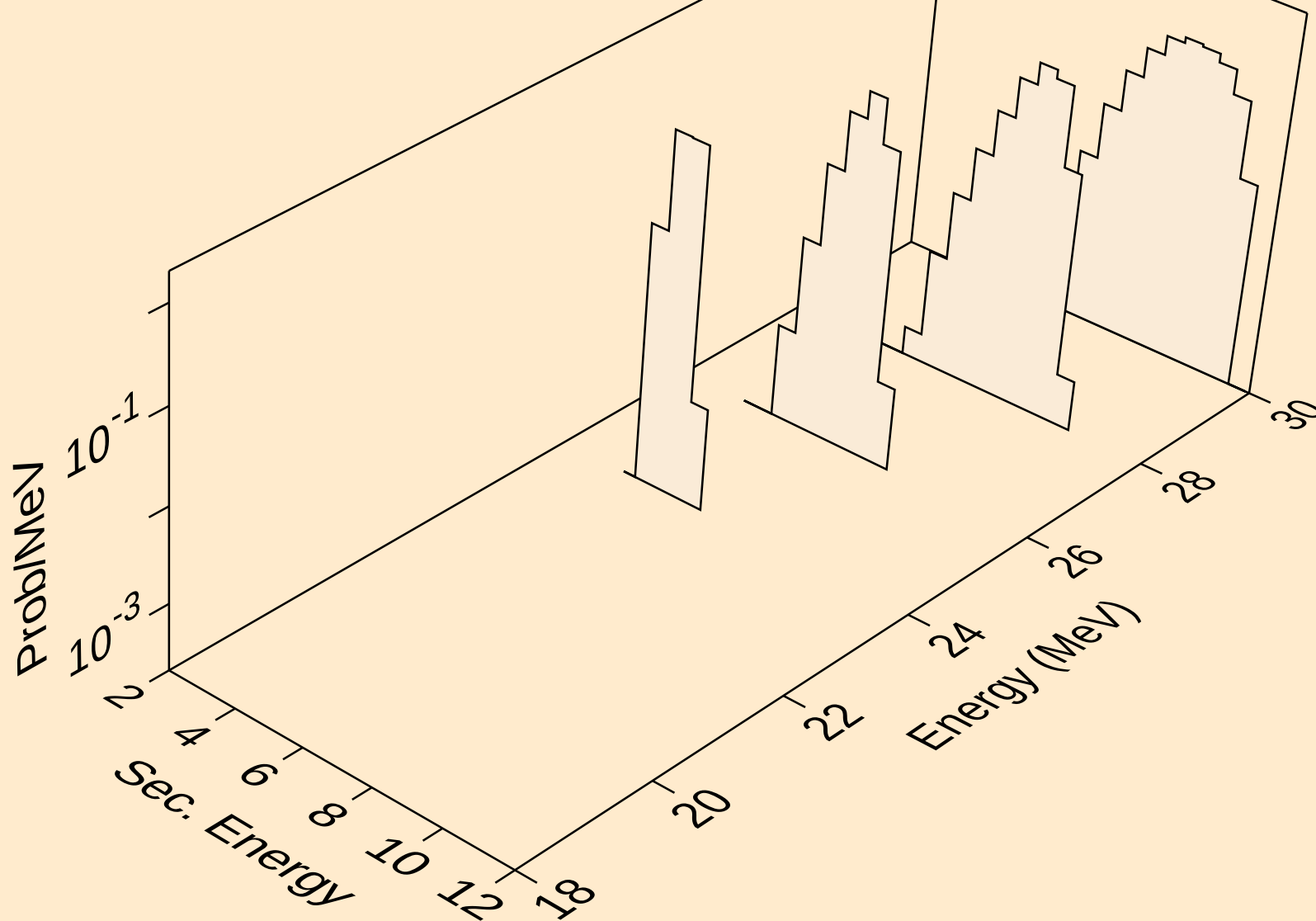
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

Alpha emission for (a,n\*)a

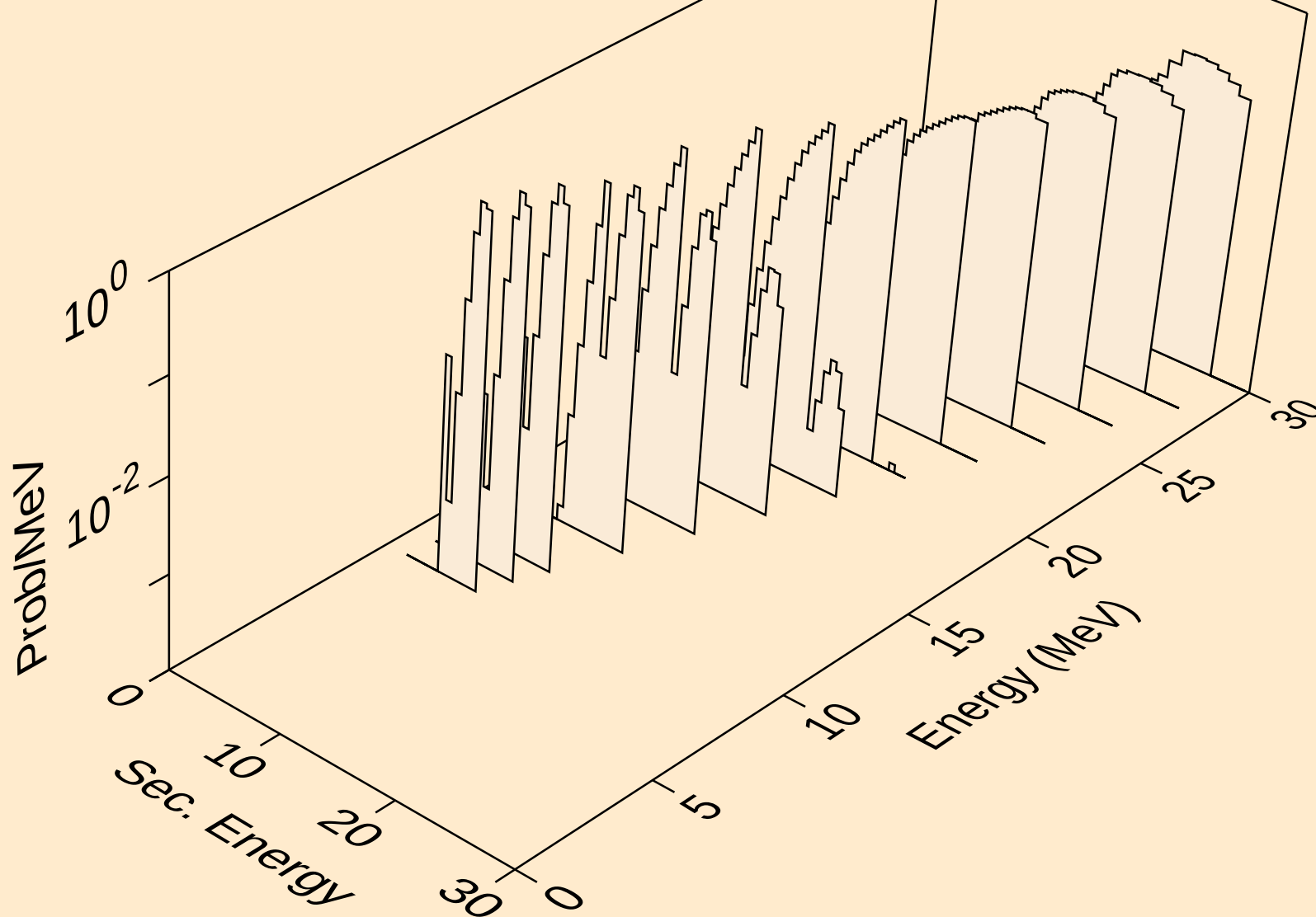


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

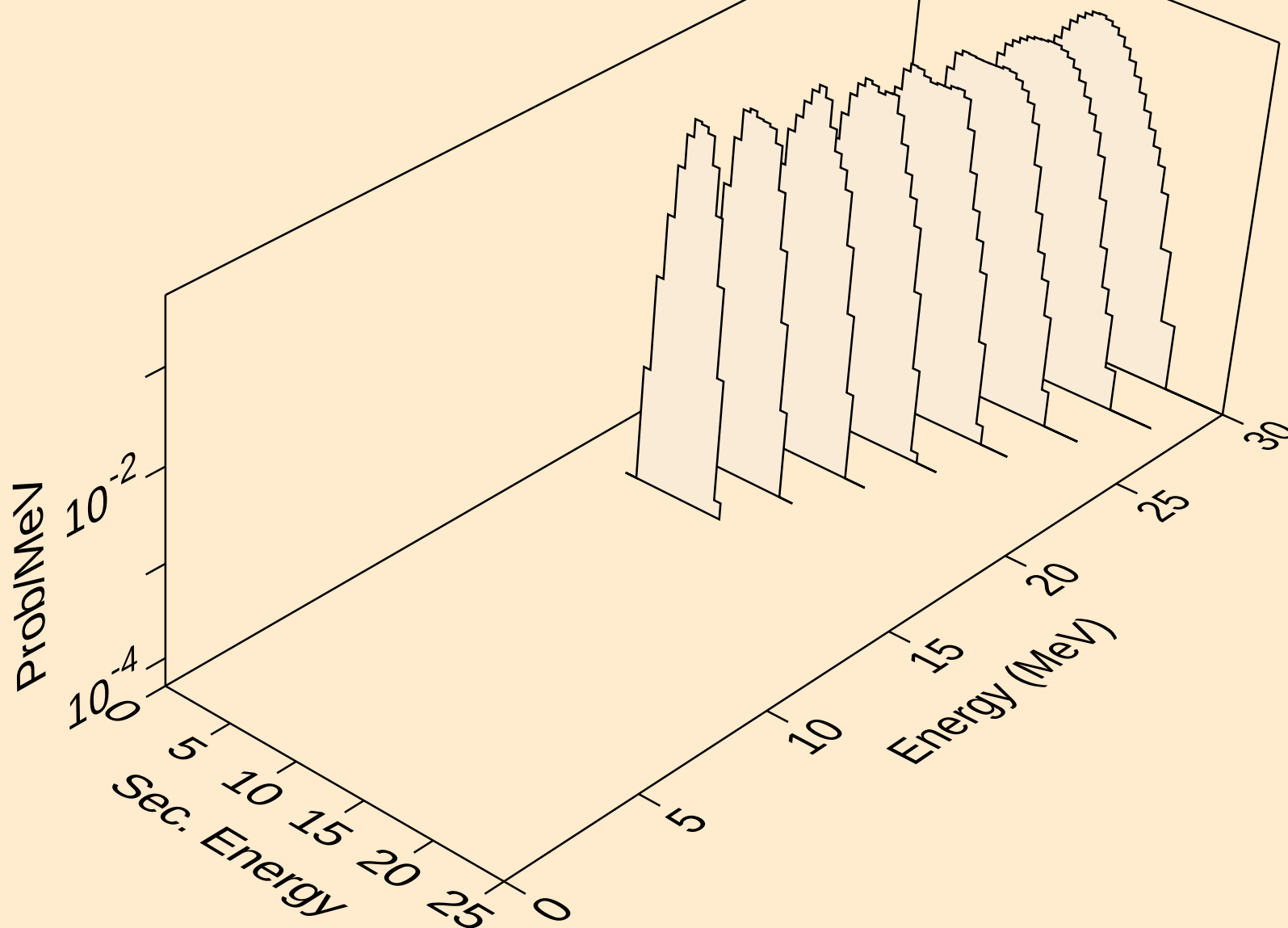
Alpha emission for (a,2n)a



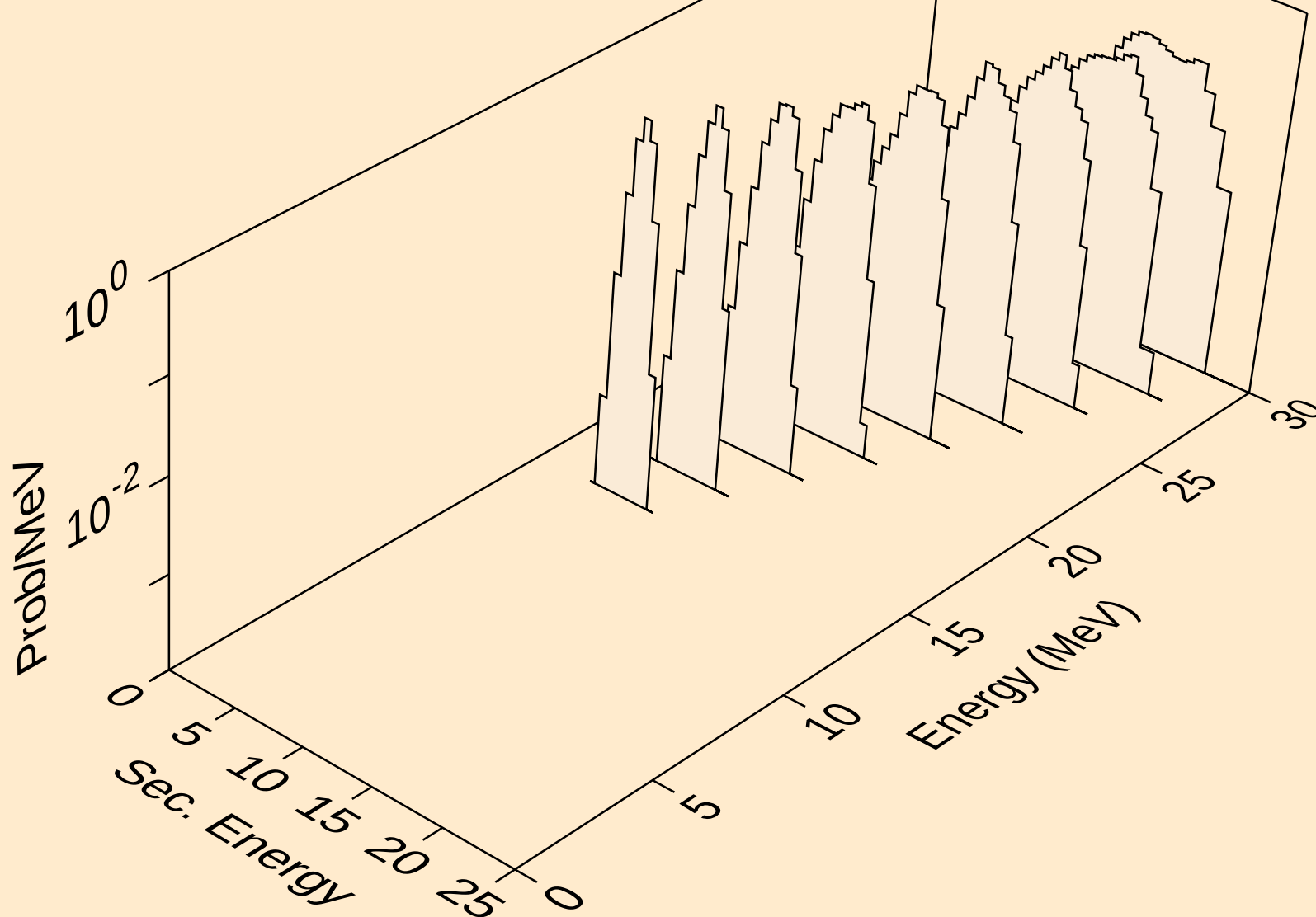
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Alpha emission for inelastic



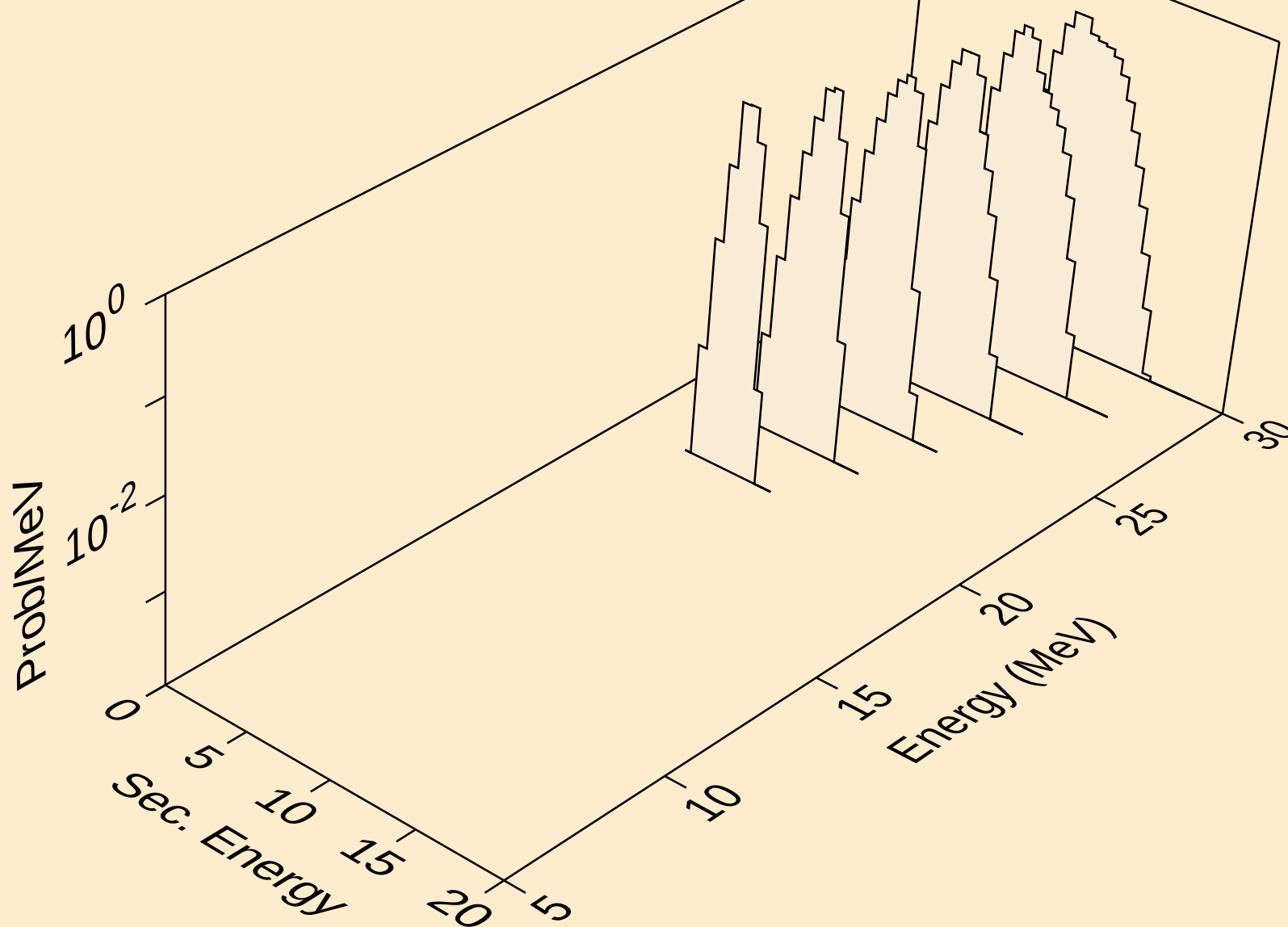
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Alpha emission for (a,2a)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Alpha emission for (a,pa)

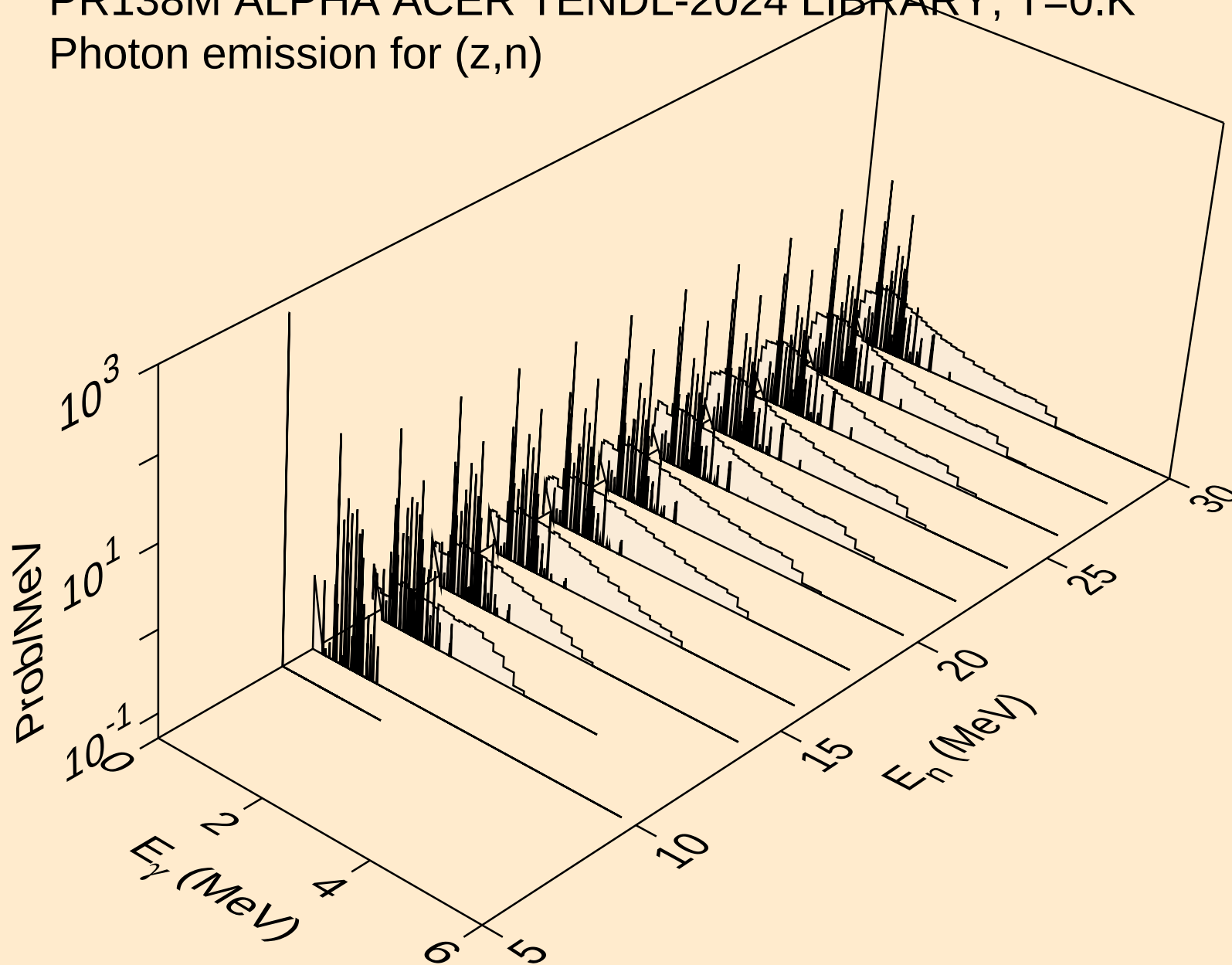


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Alpha emission for (a,da)



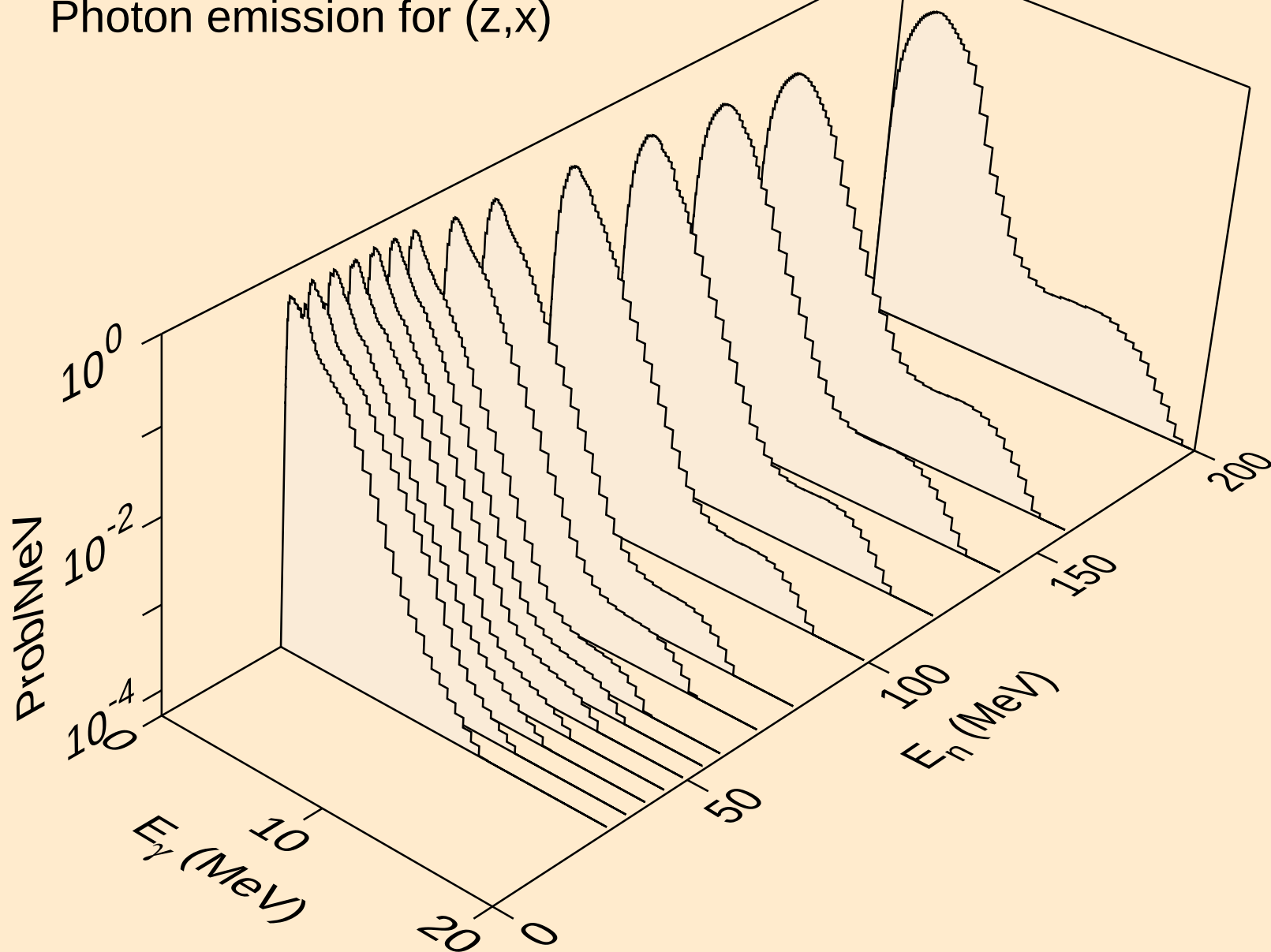


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (z,n)

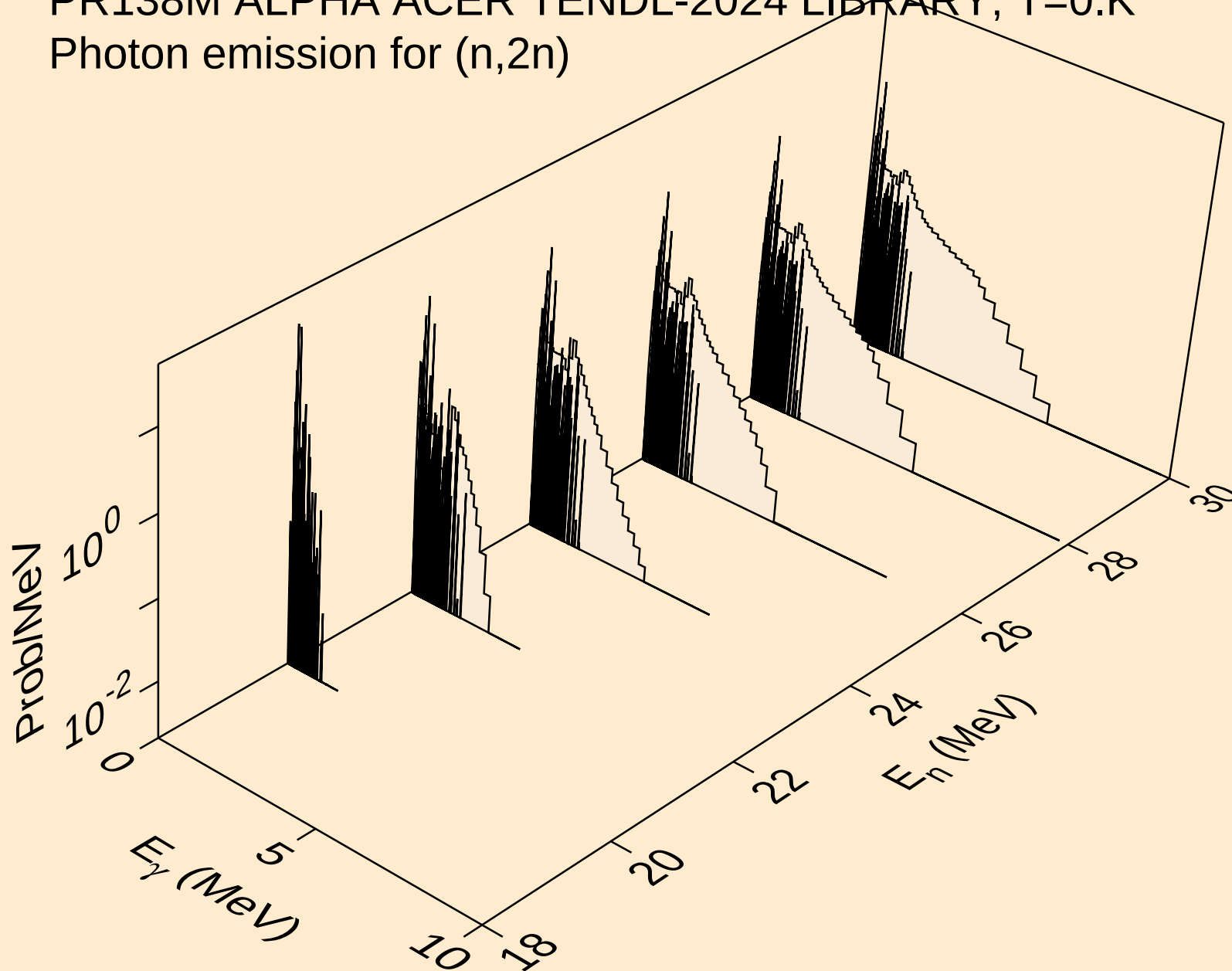


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

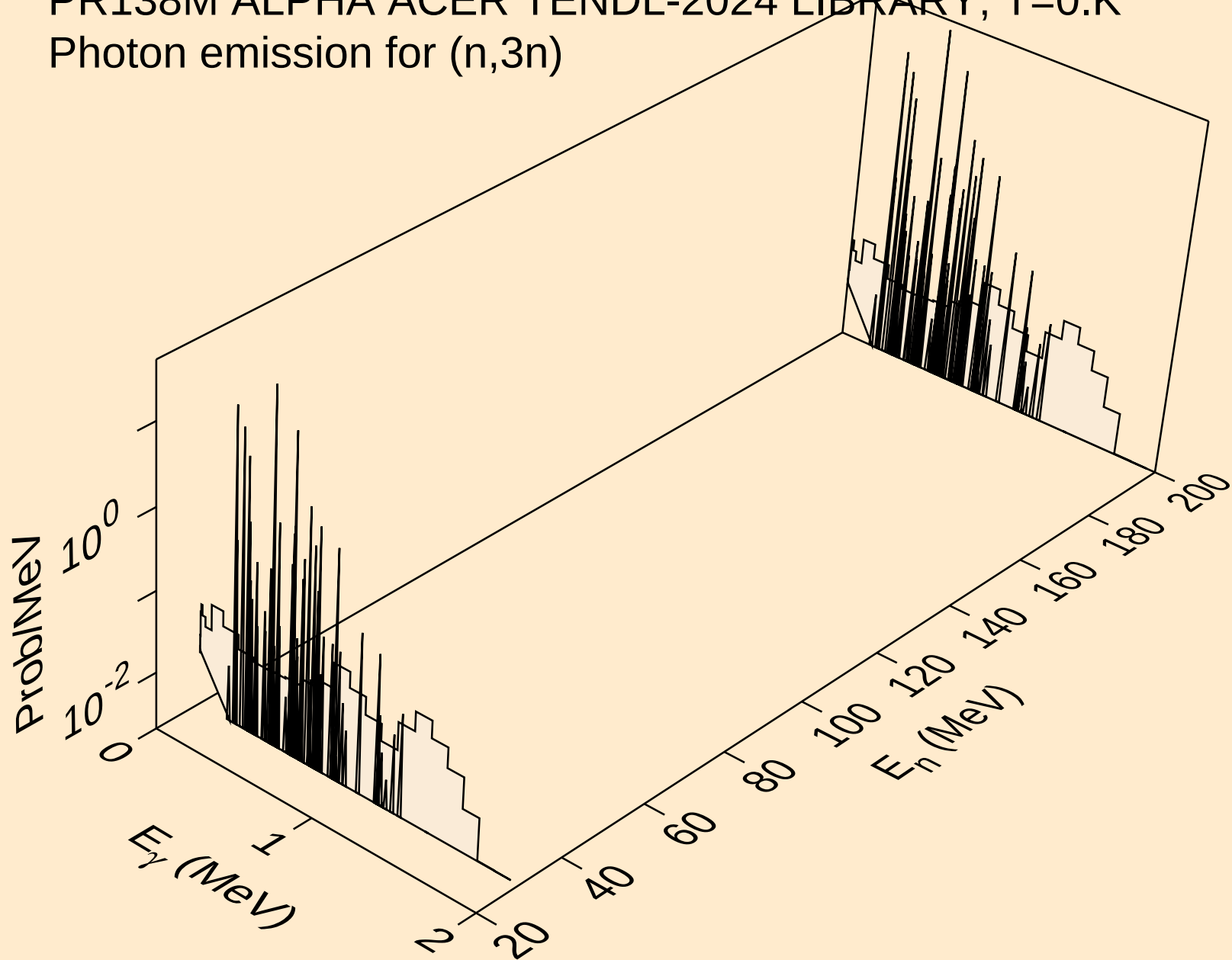
Photon emission for (z,x)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)

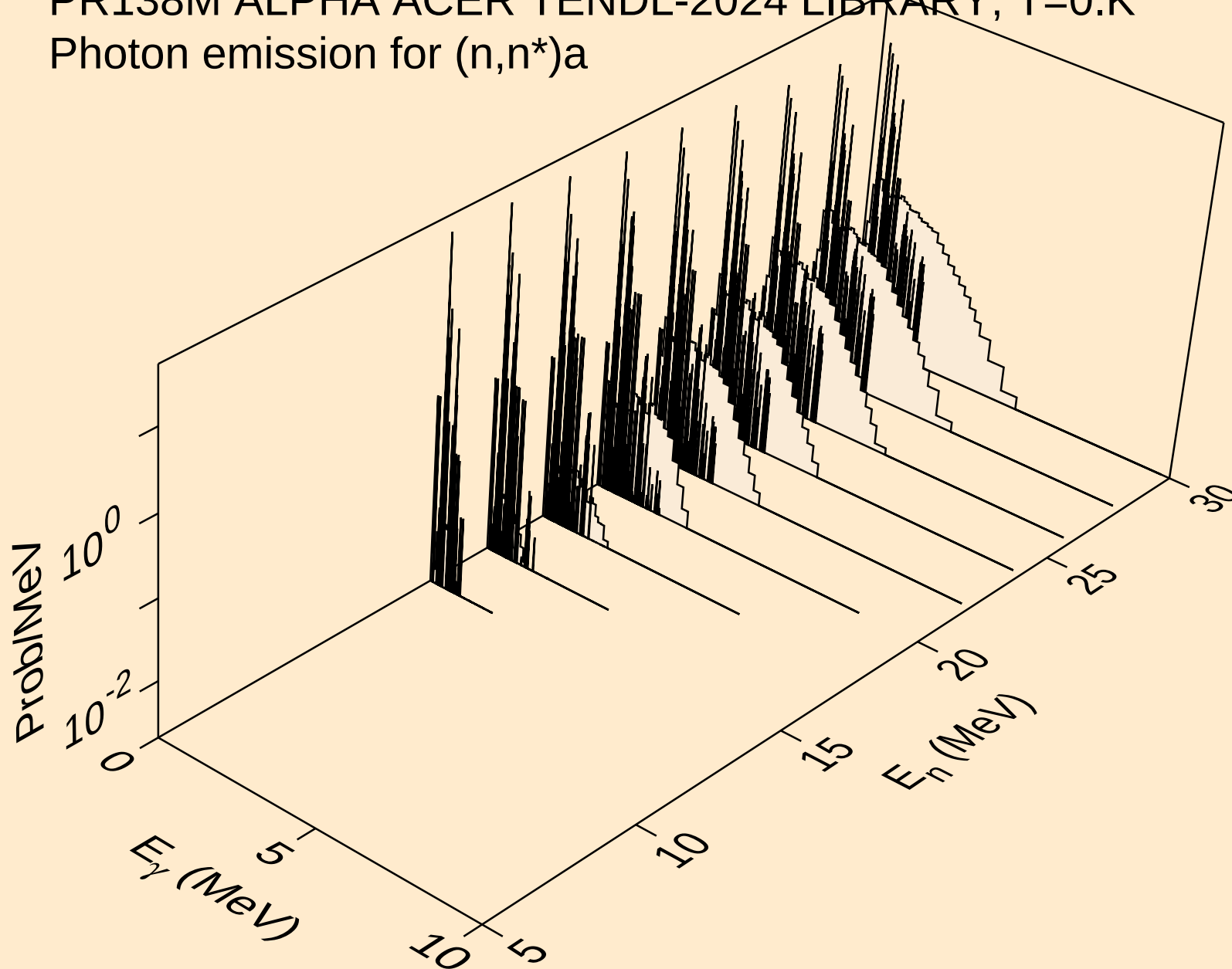


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)

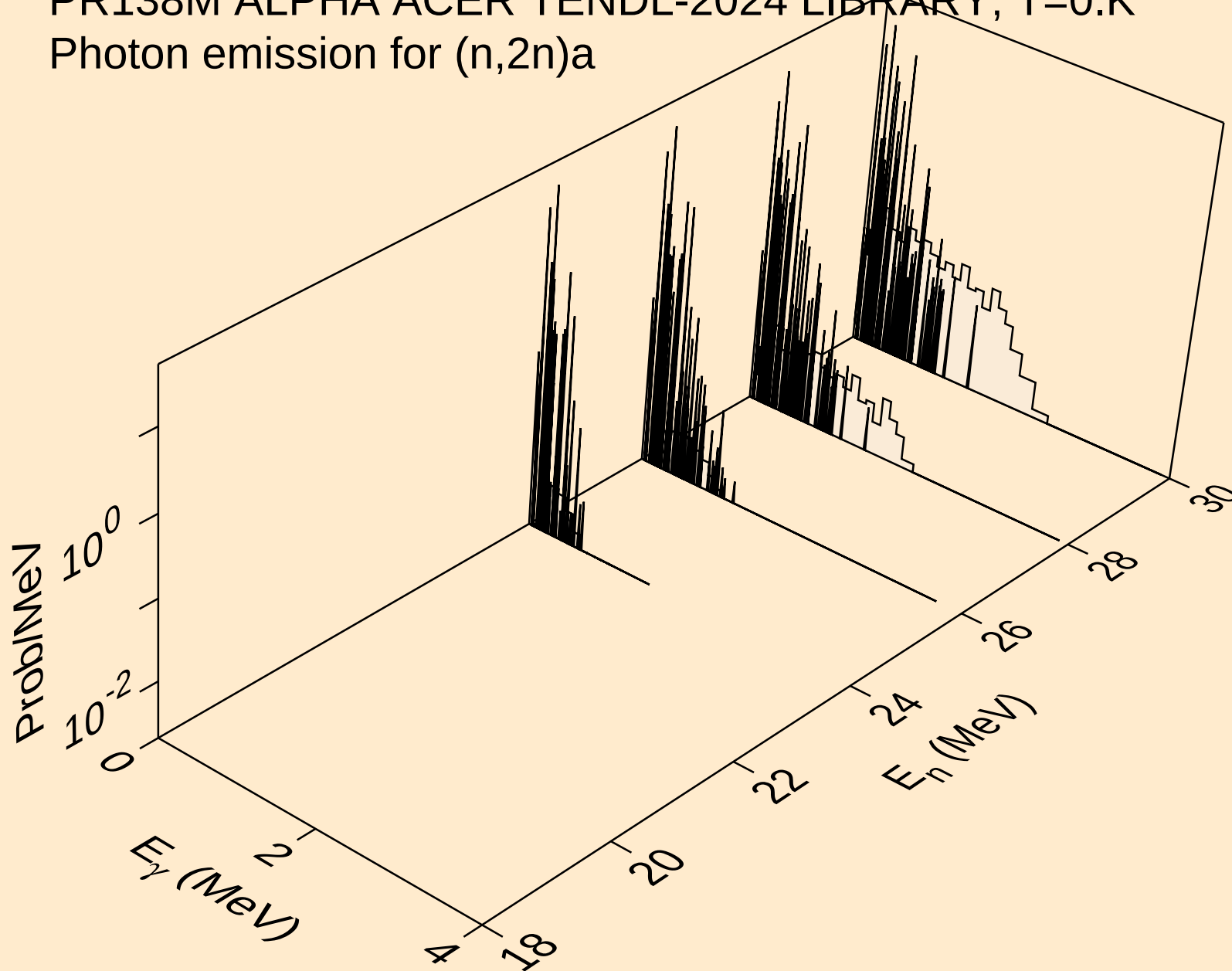


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

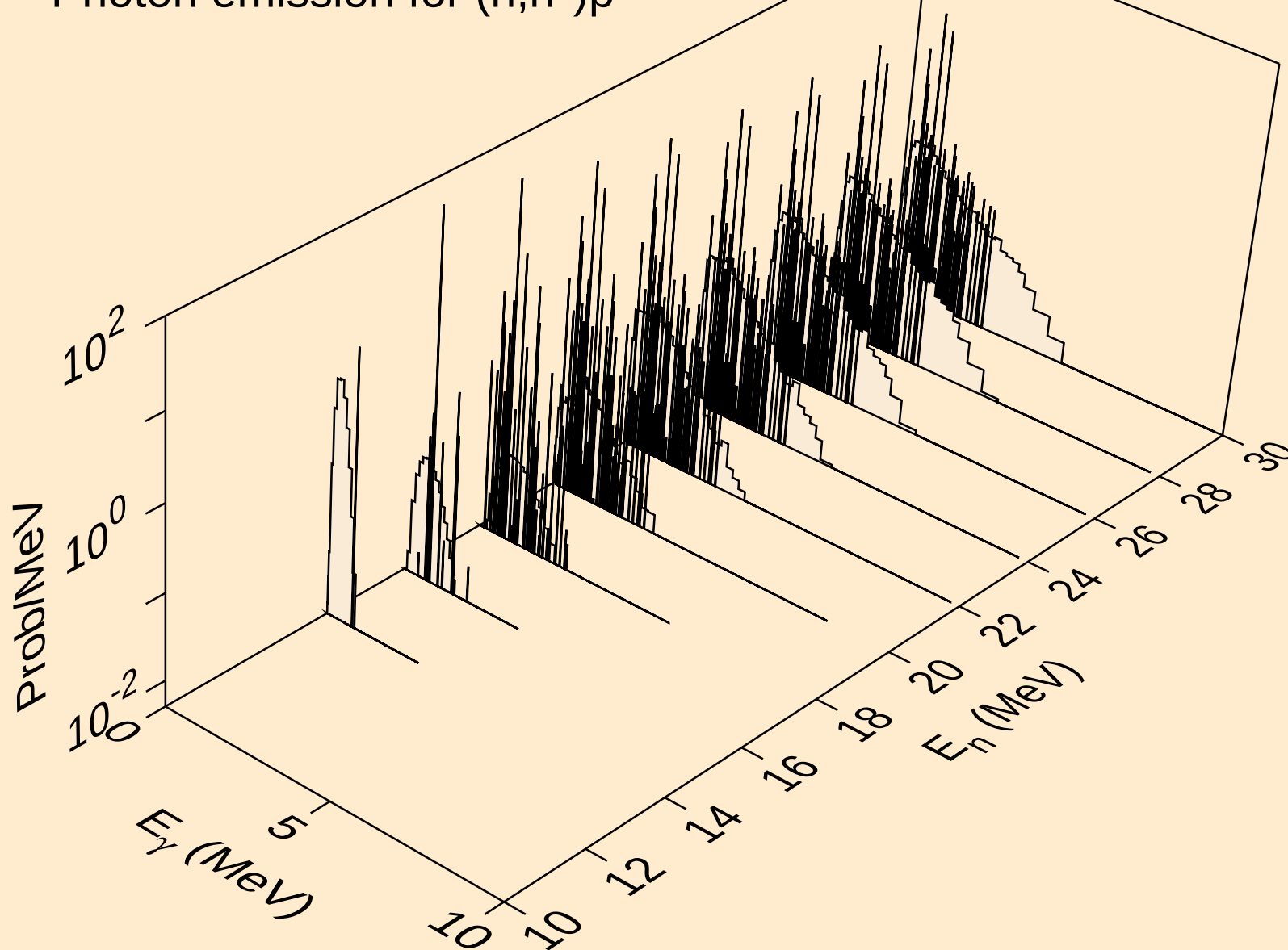
Photon emission for (n,n\*)a



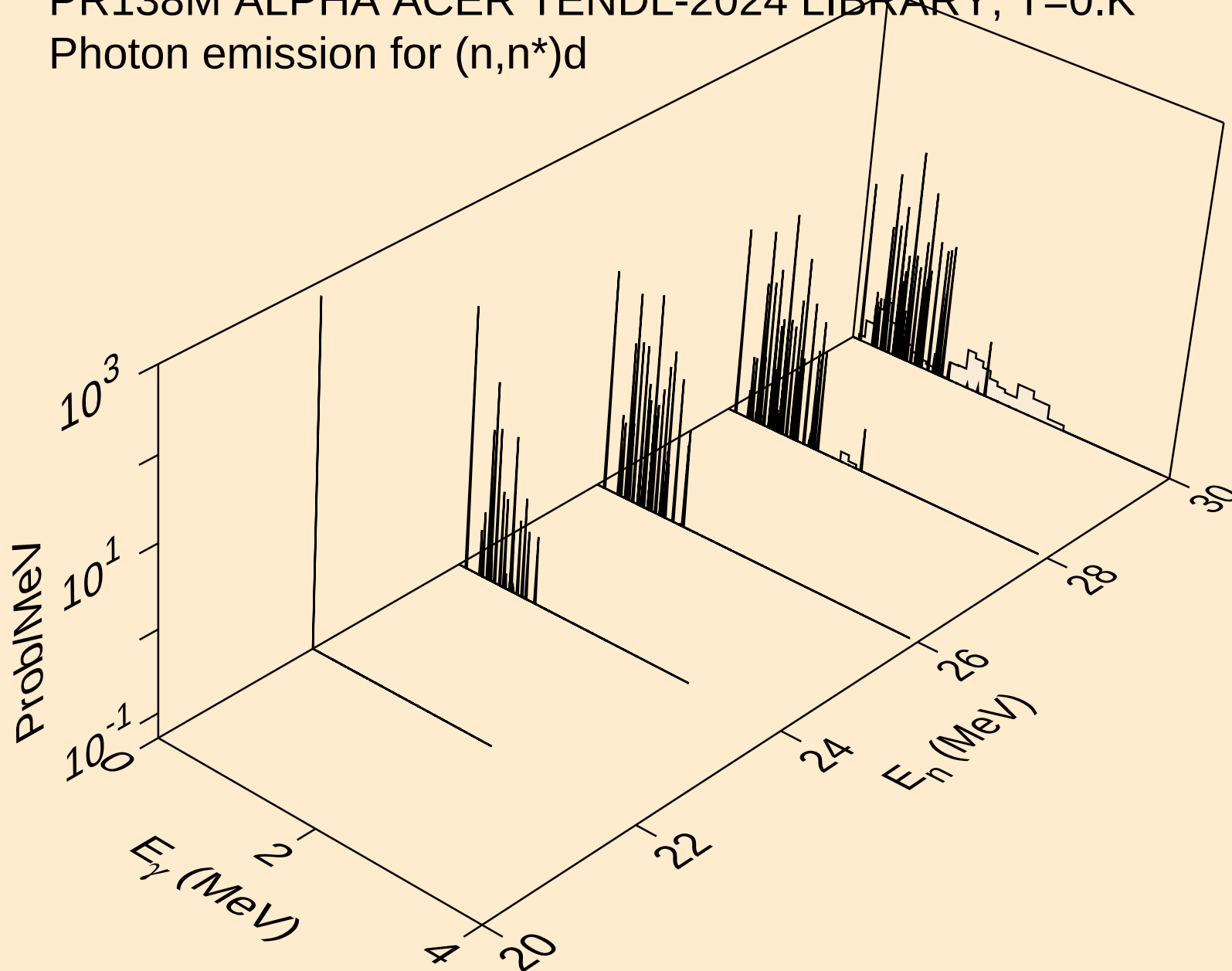
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n) $\alpha$



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



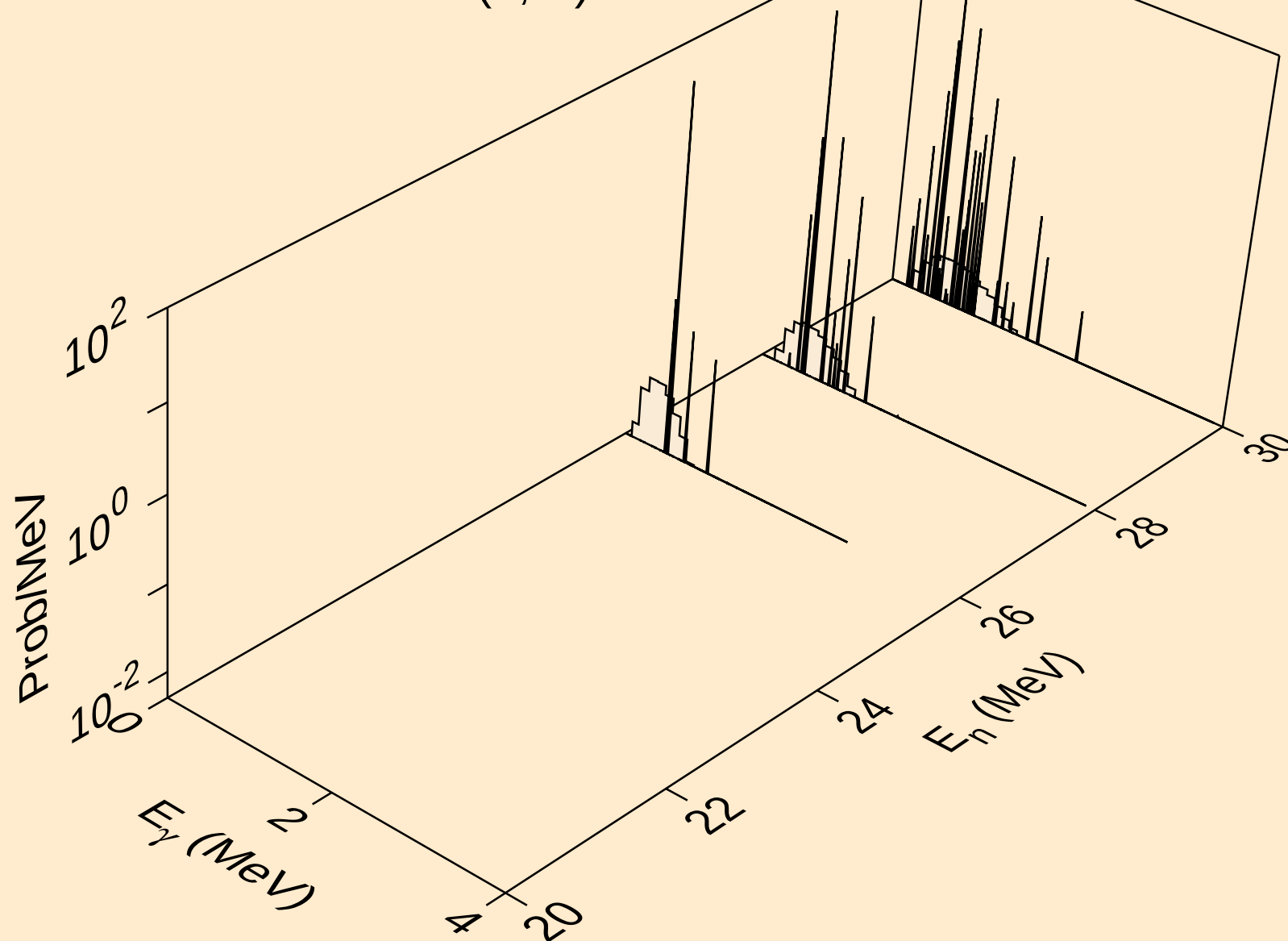
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



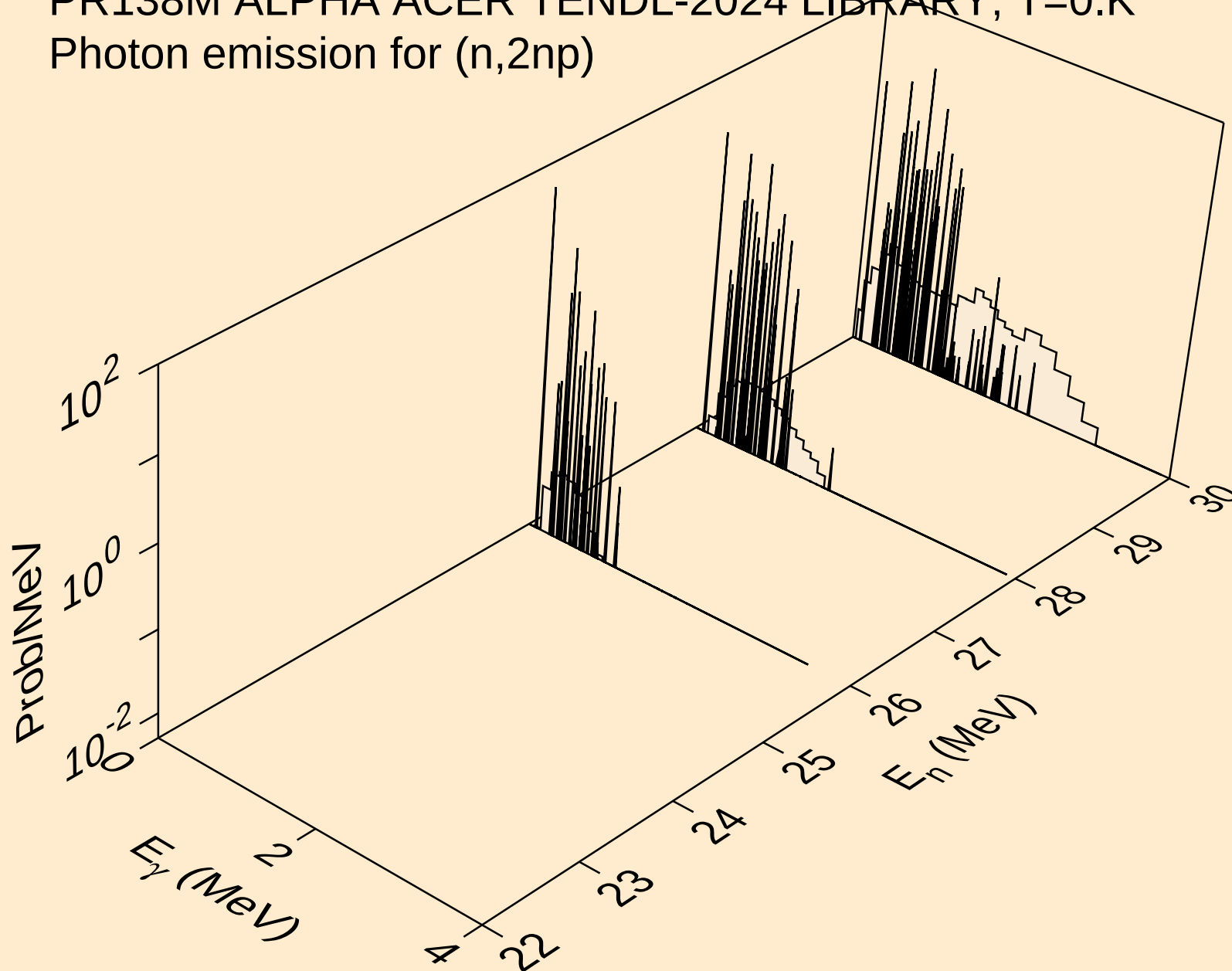


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

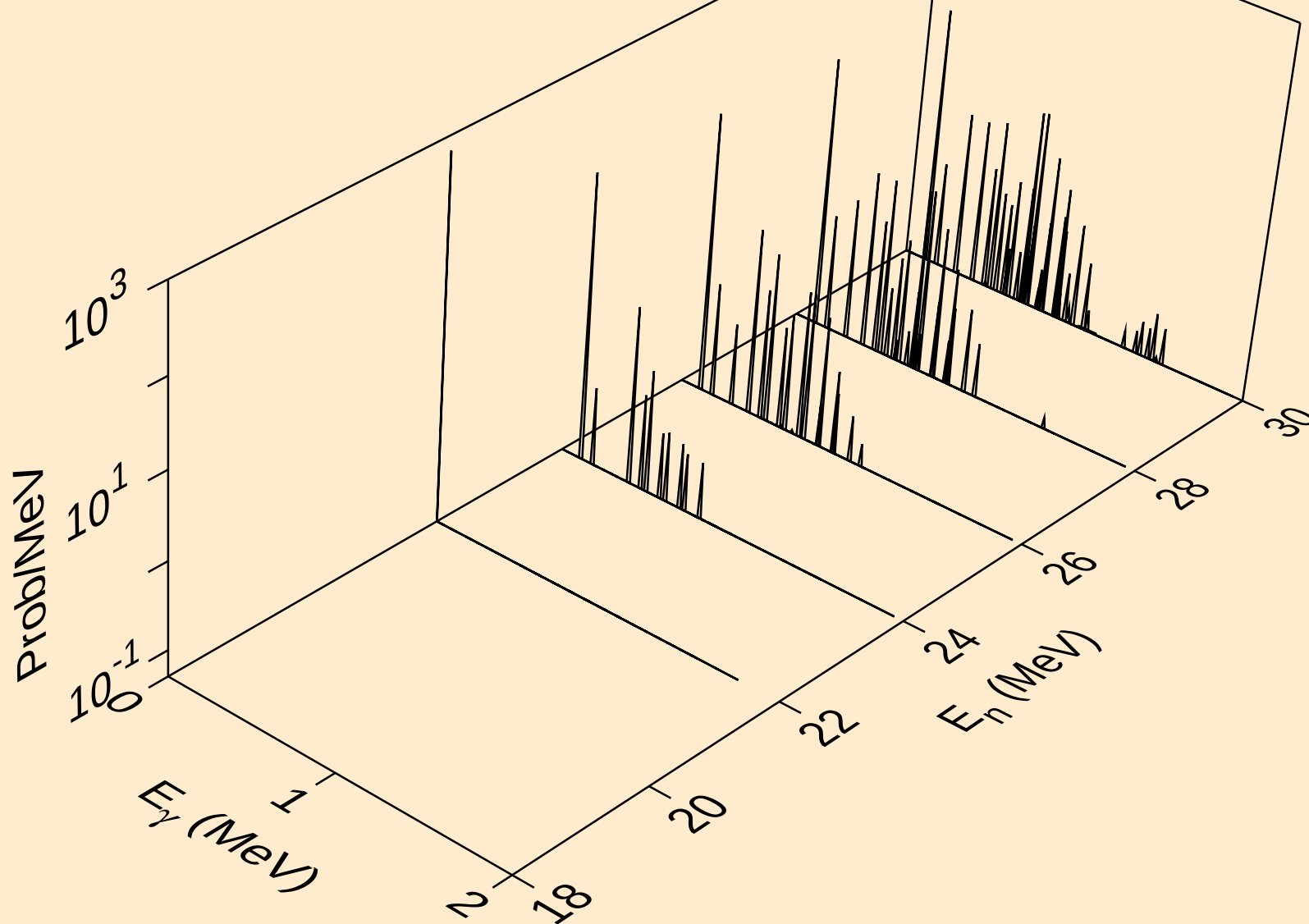
Photon emission for (n,n\*)t



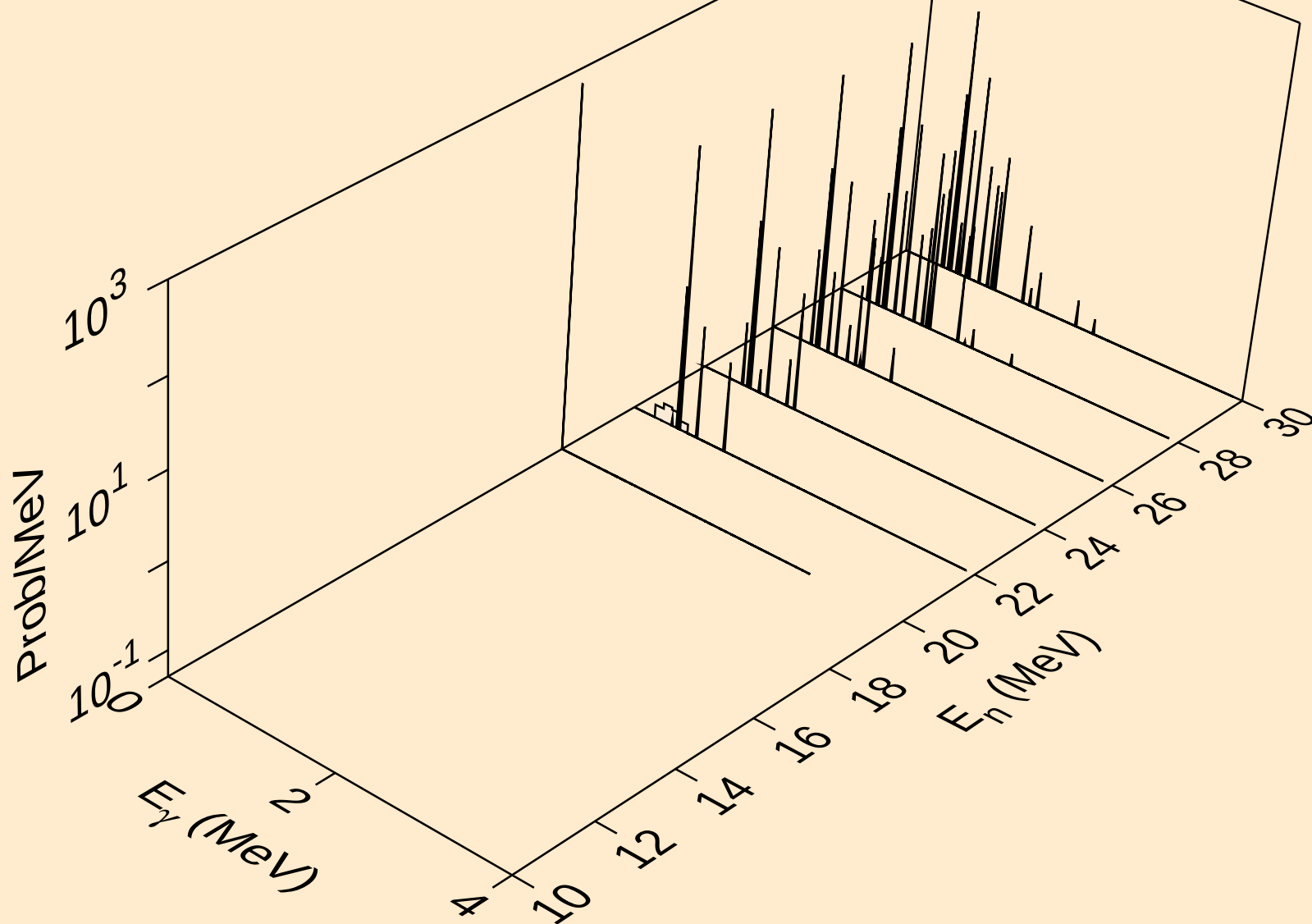
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



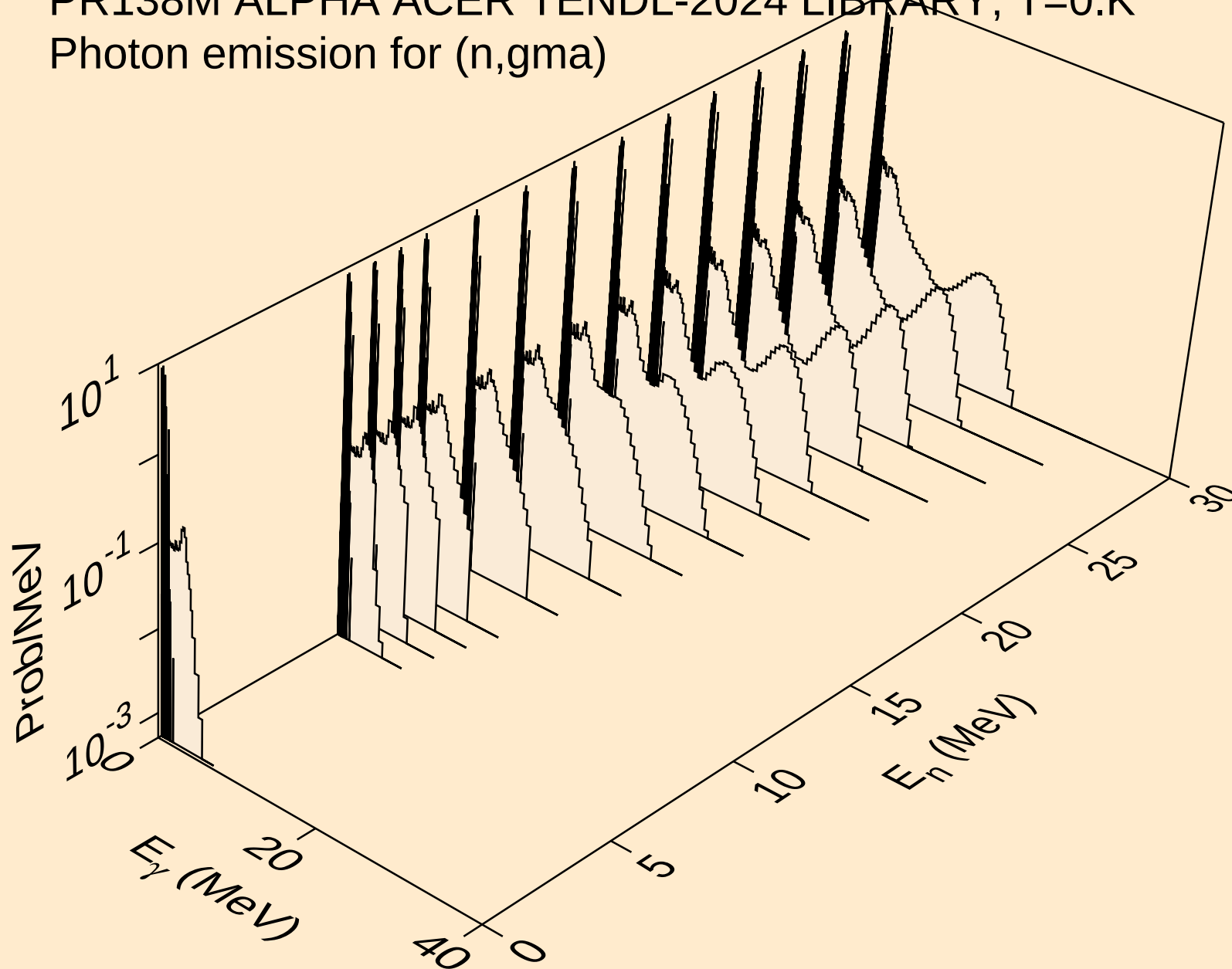
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



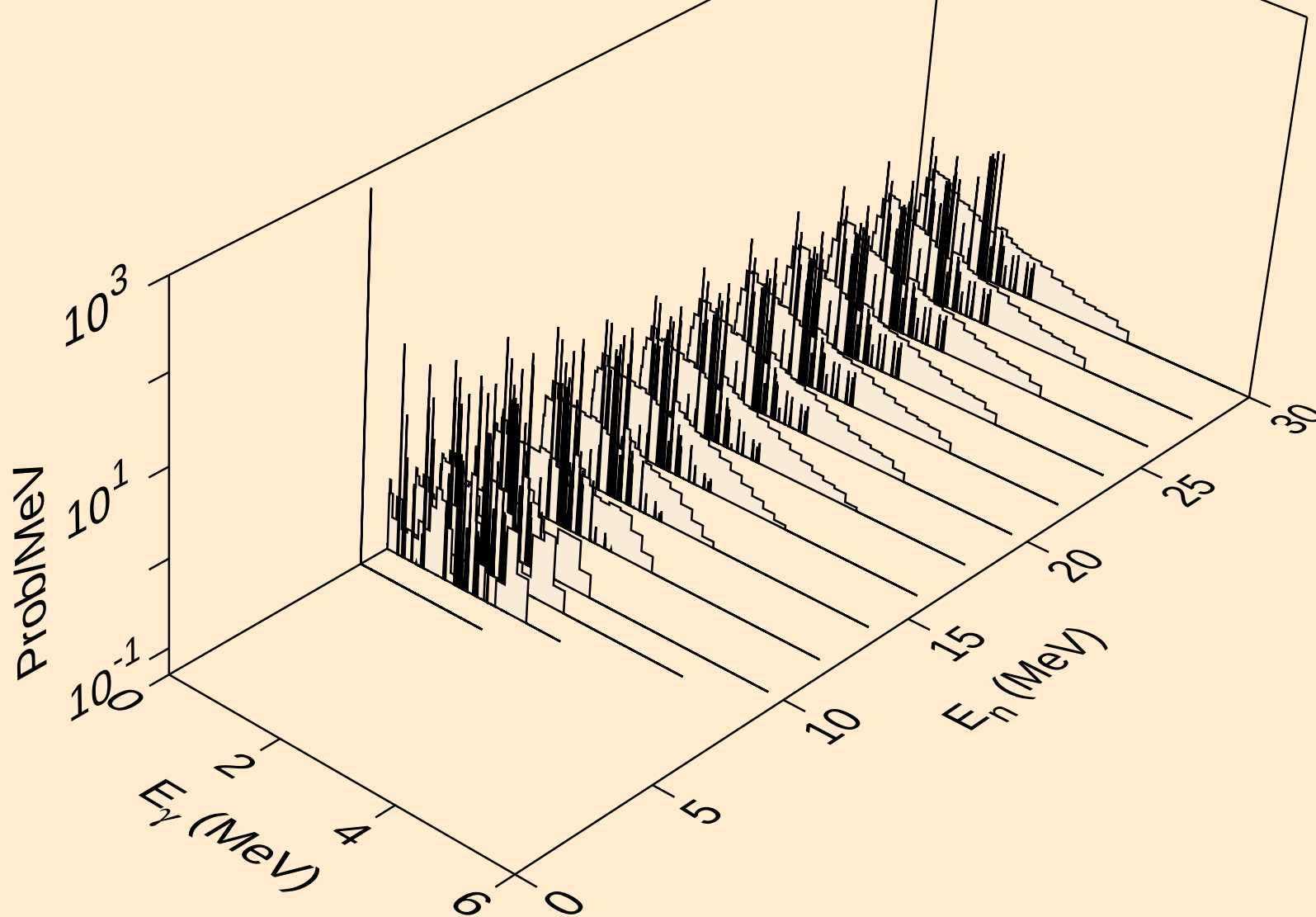
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



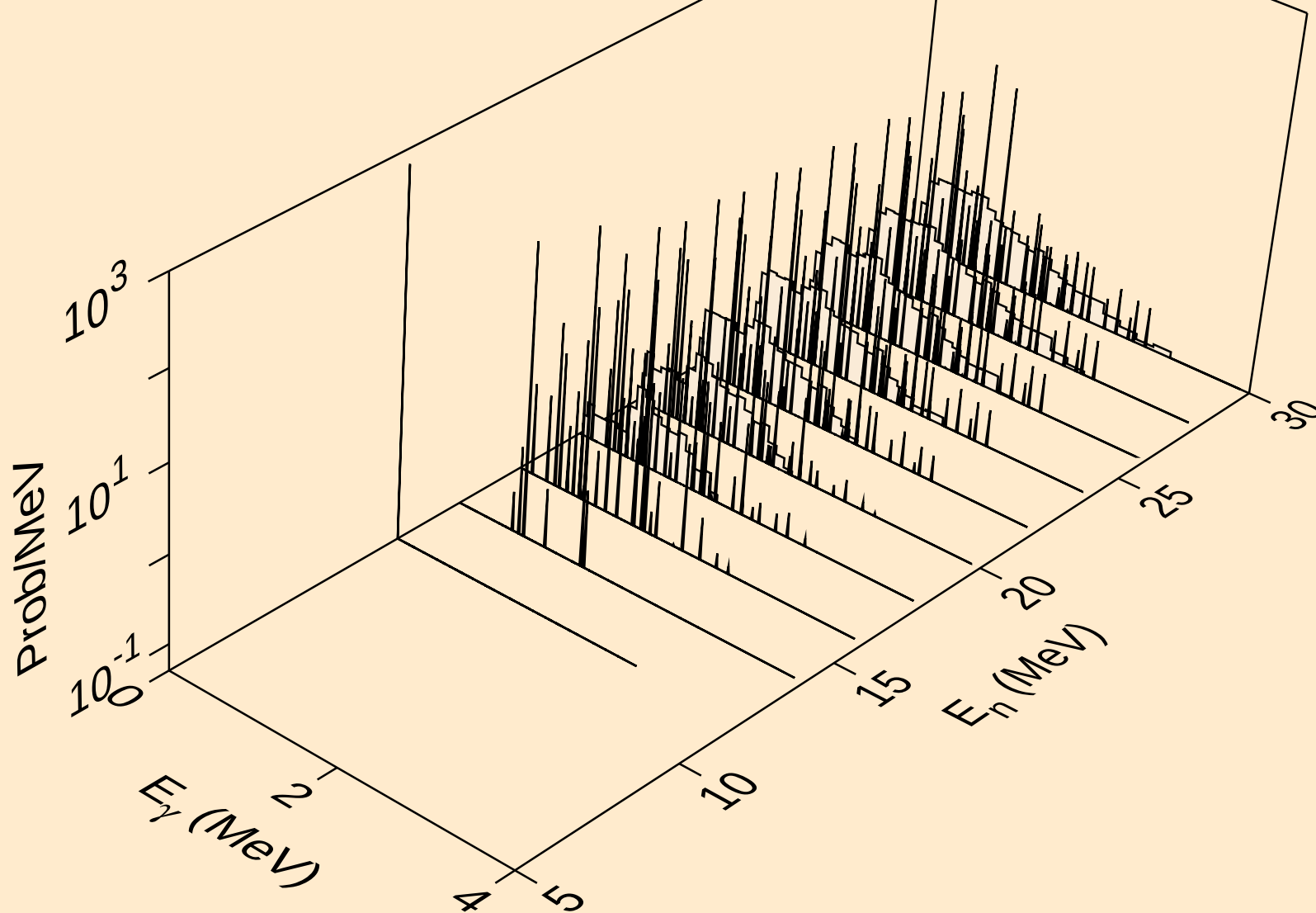
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Photon emission for (n,gma)



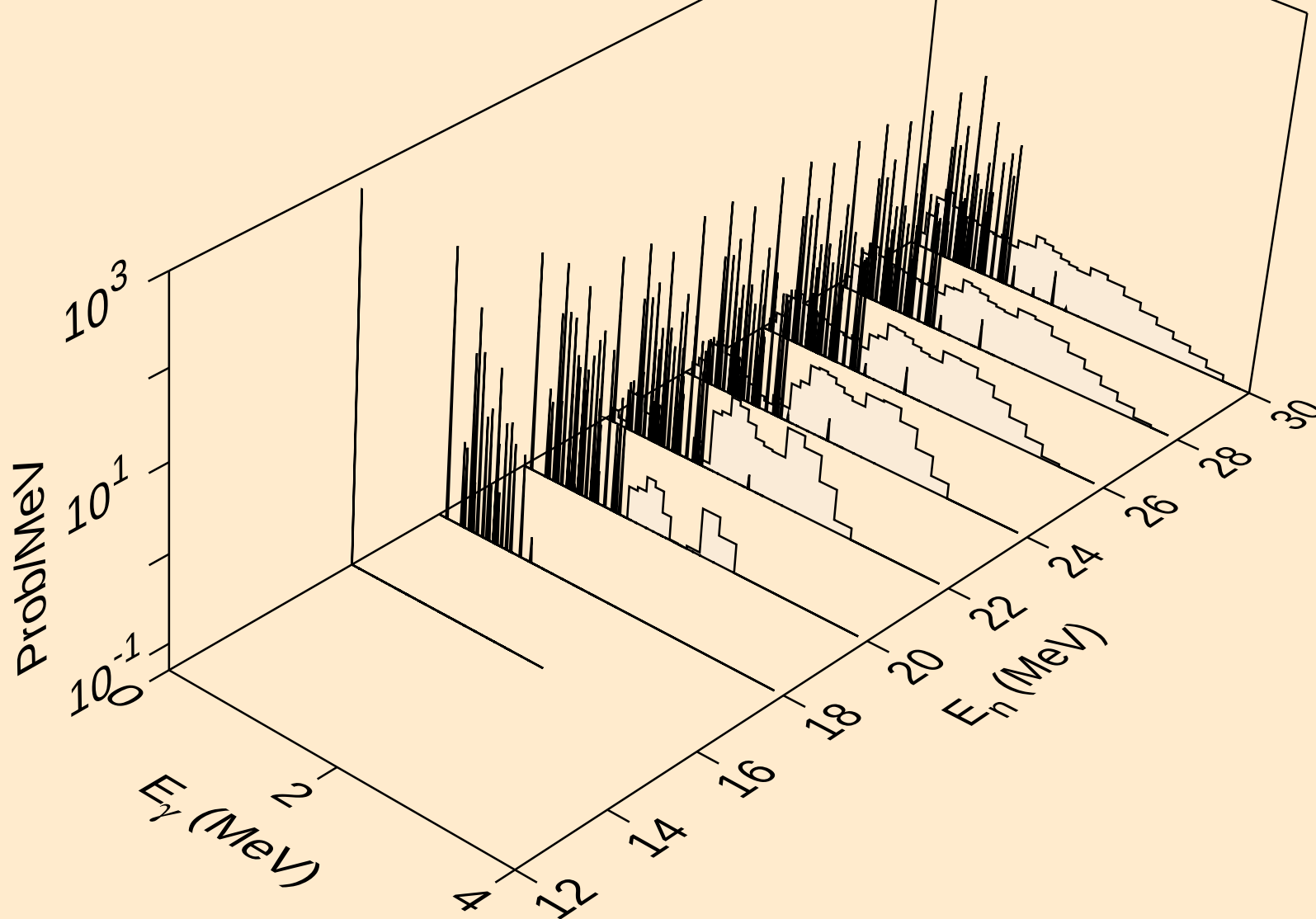
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)

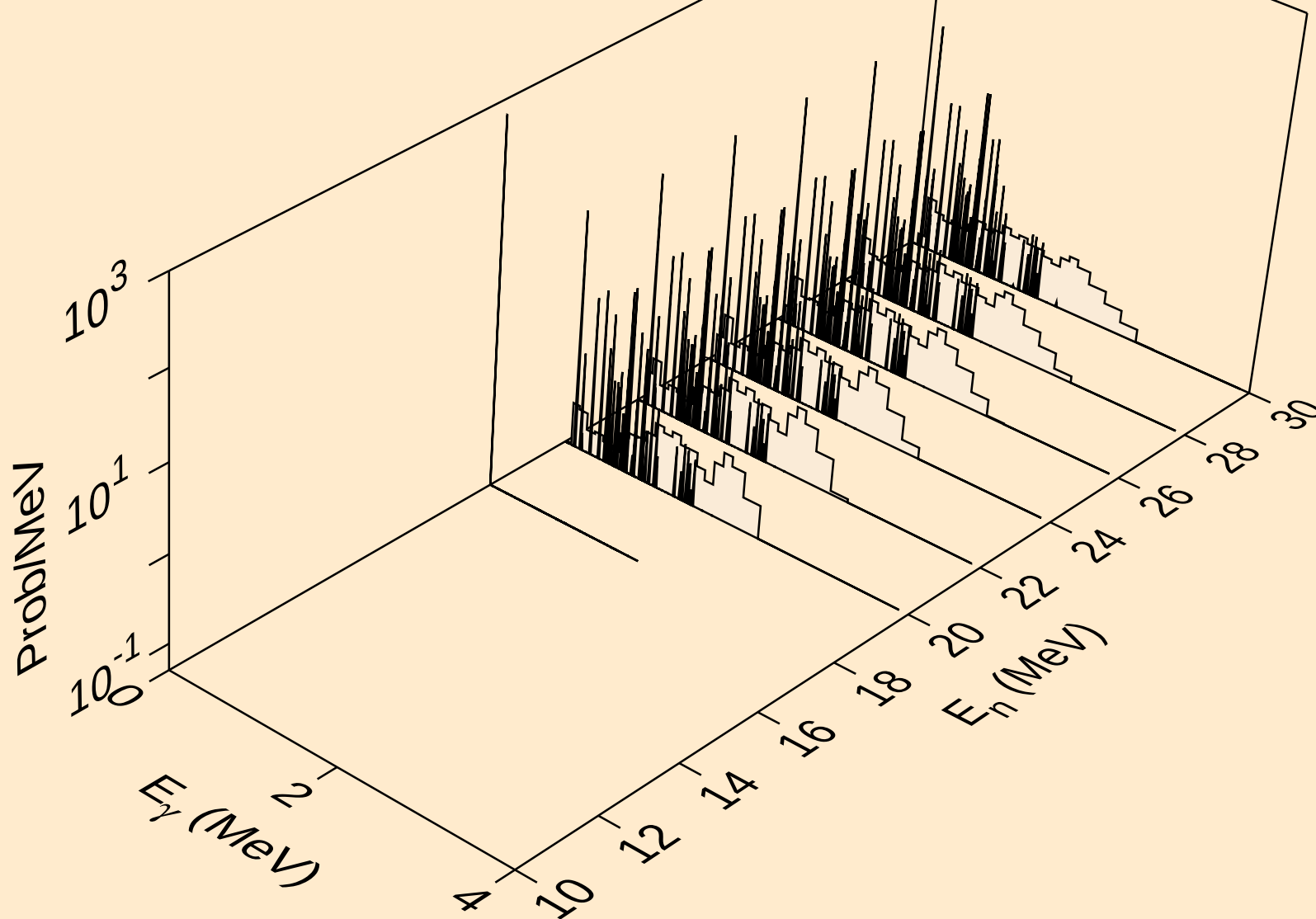


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)

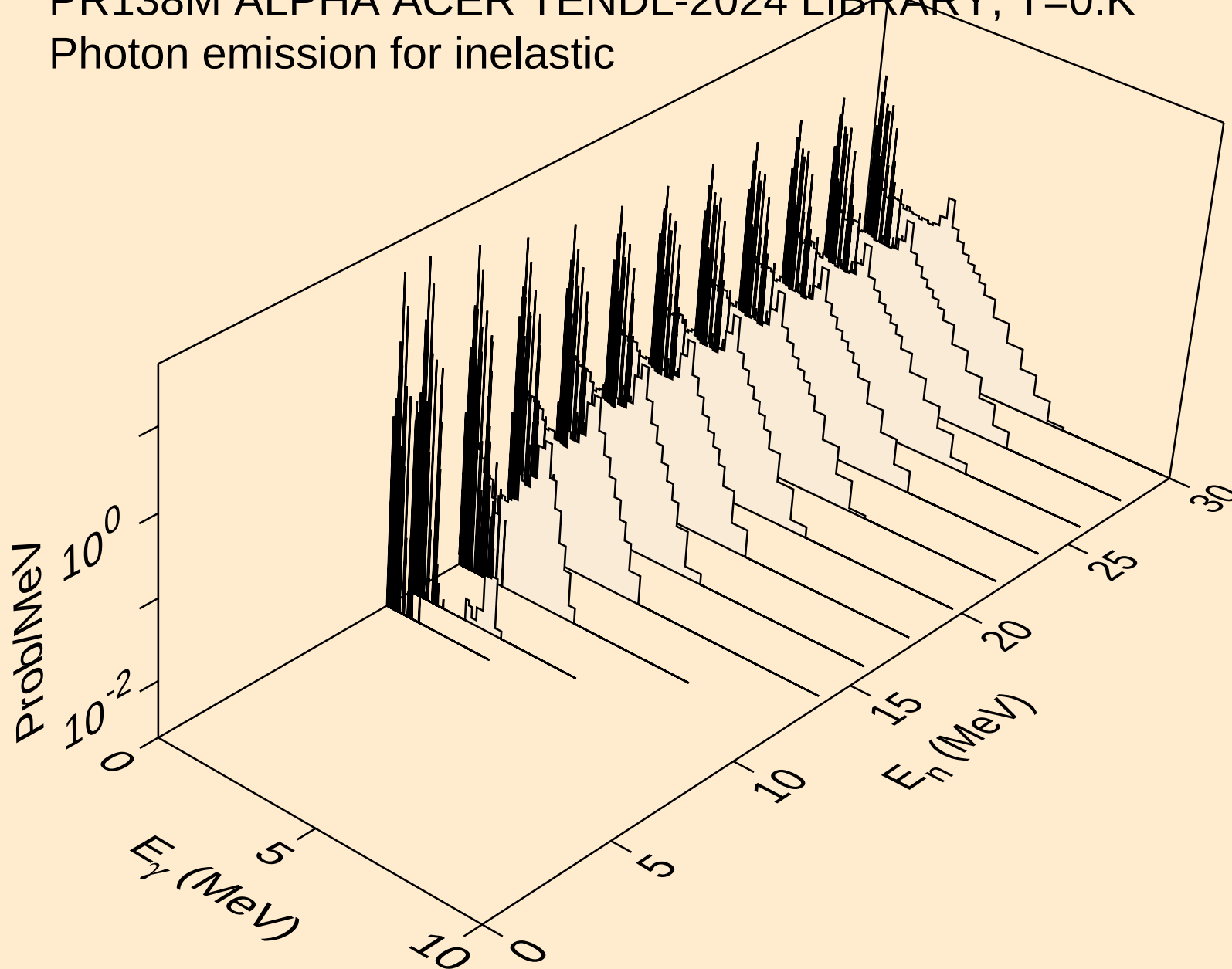




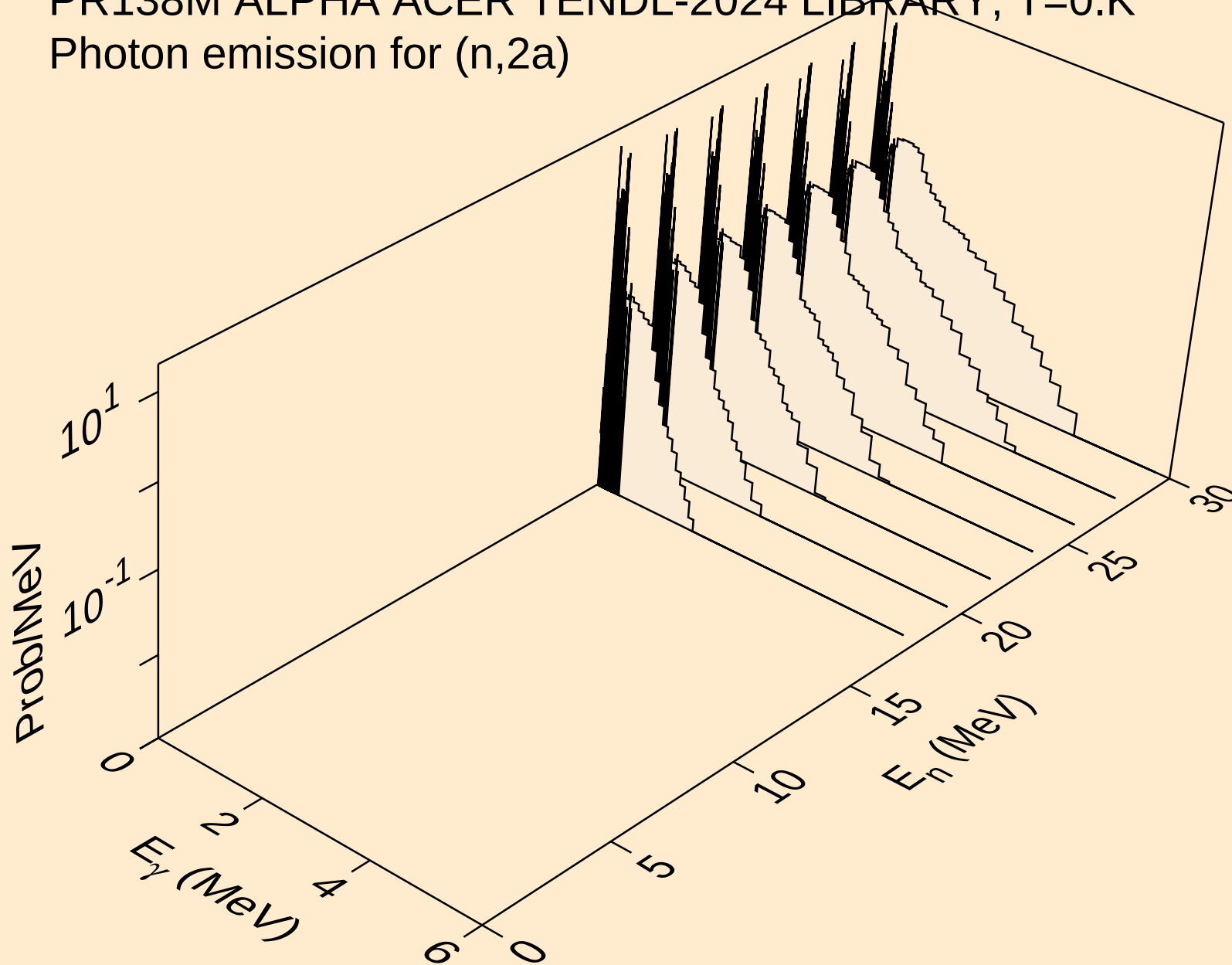
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Photon emission for (n,he3)



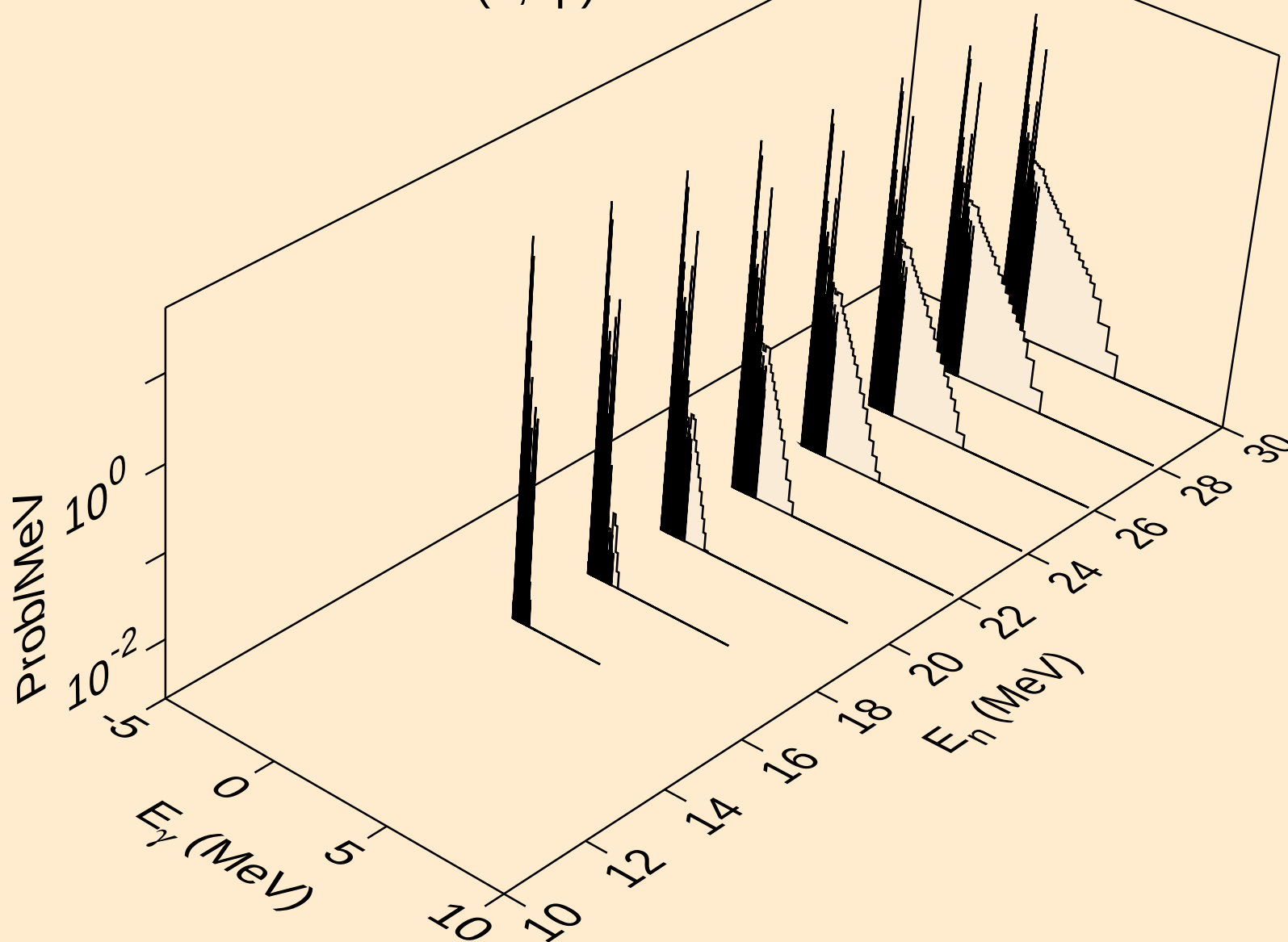
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for inelastic



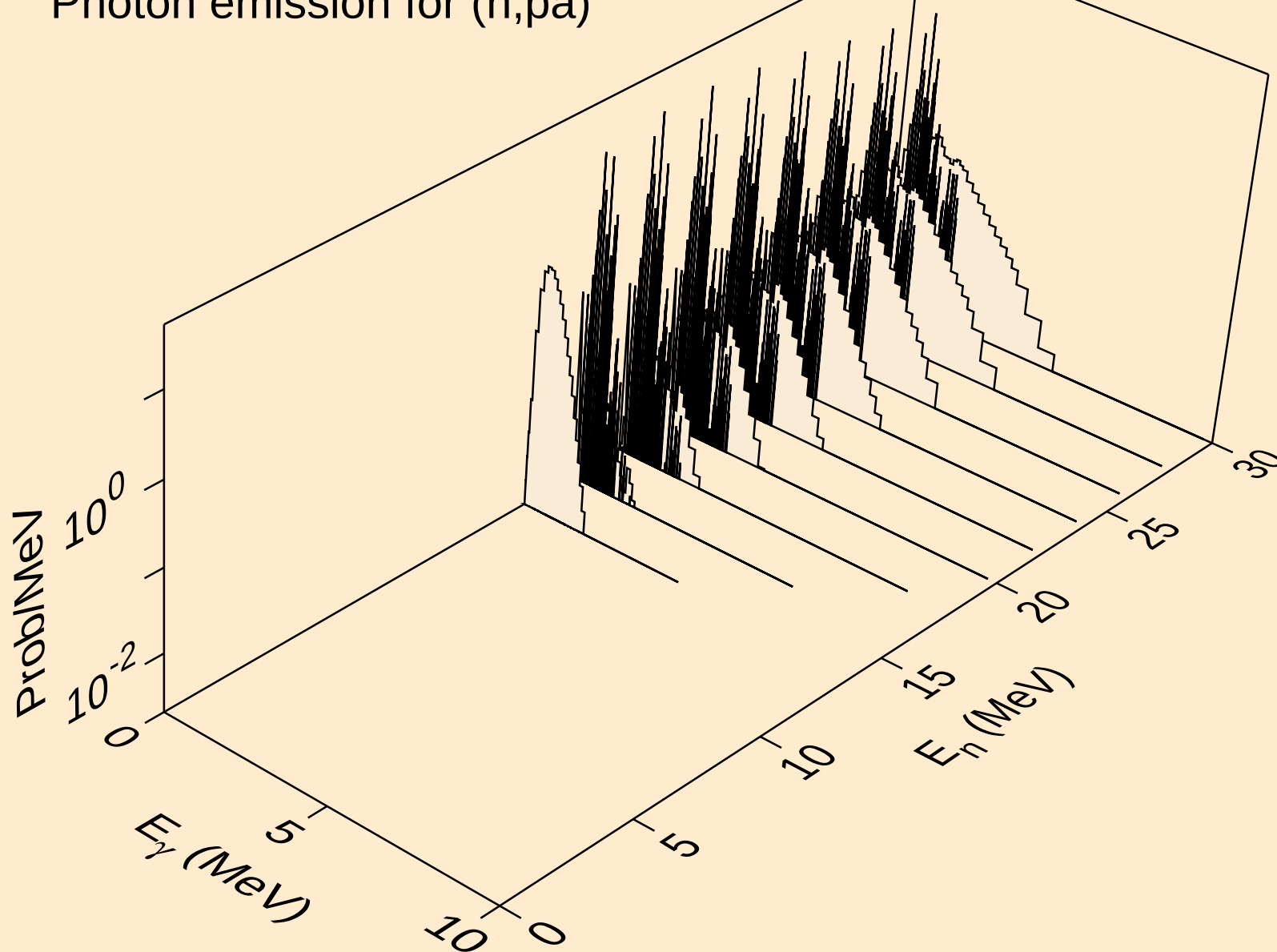
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



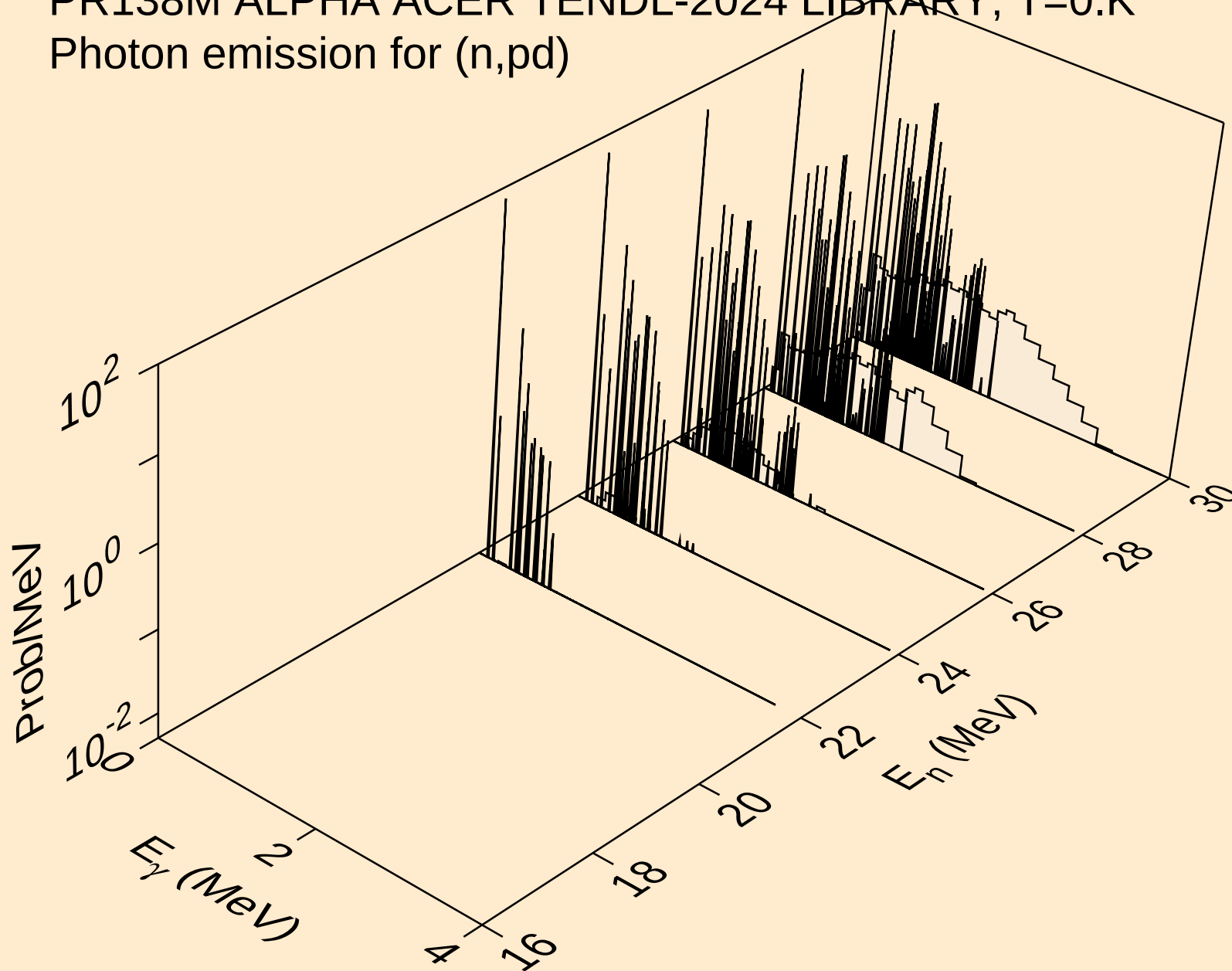
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



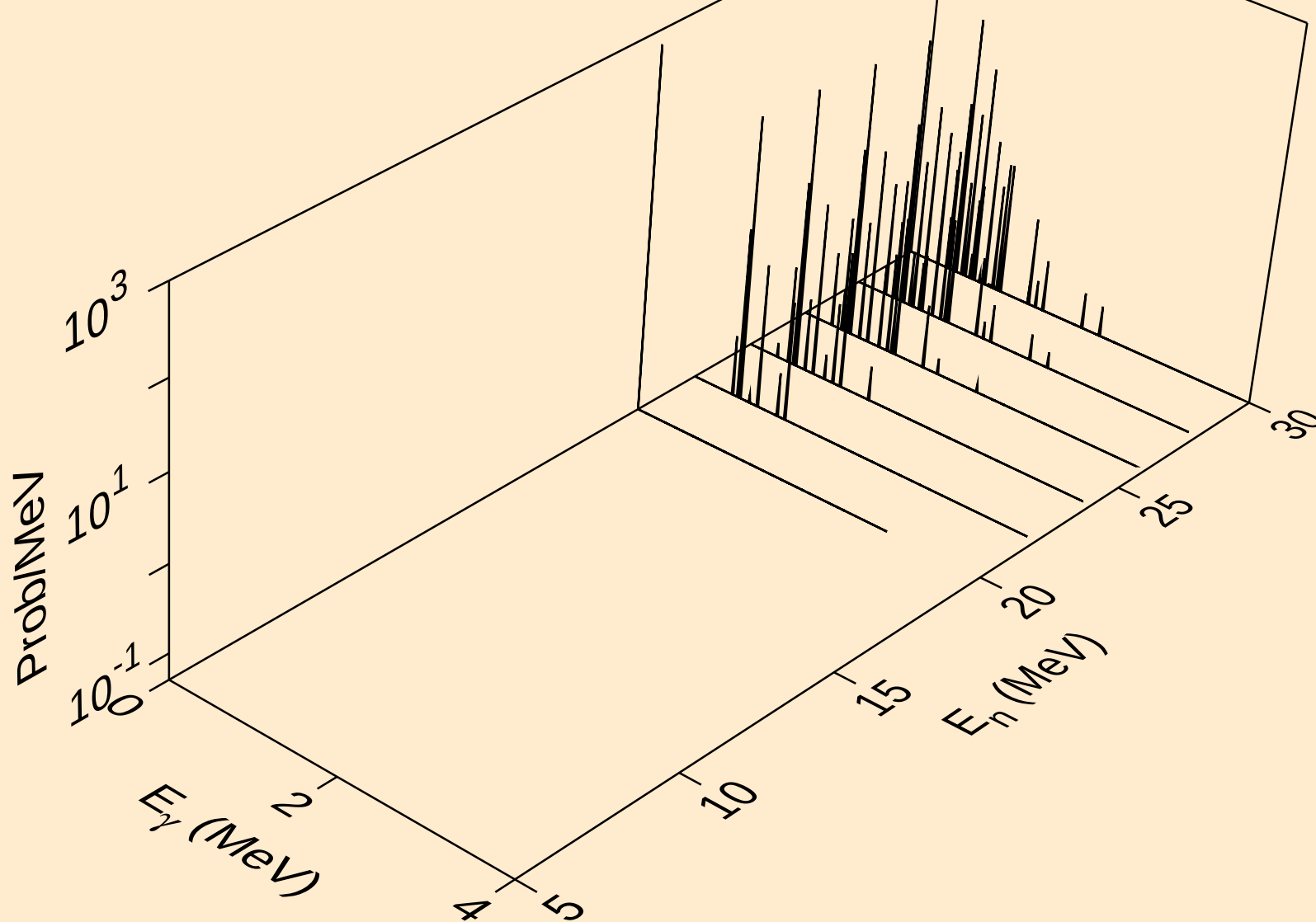
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pa)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

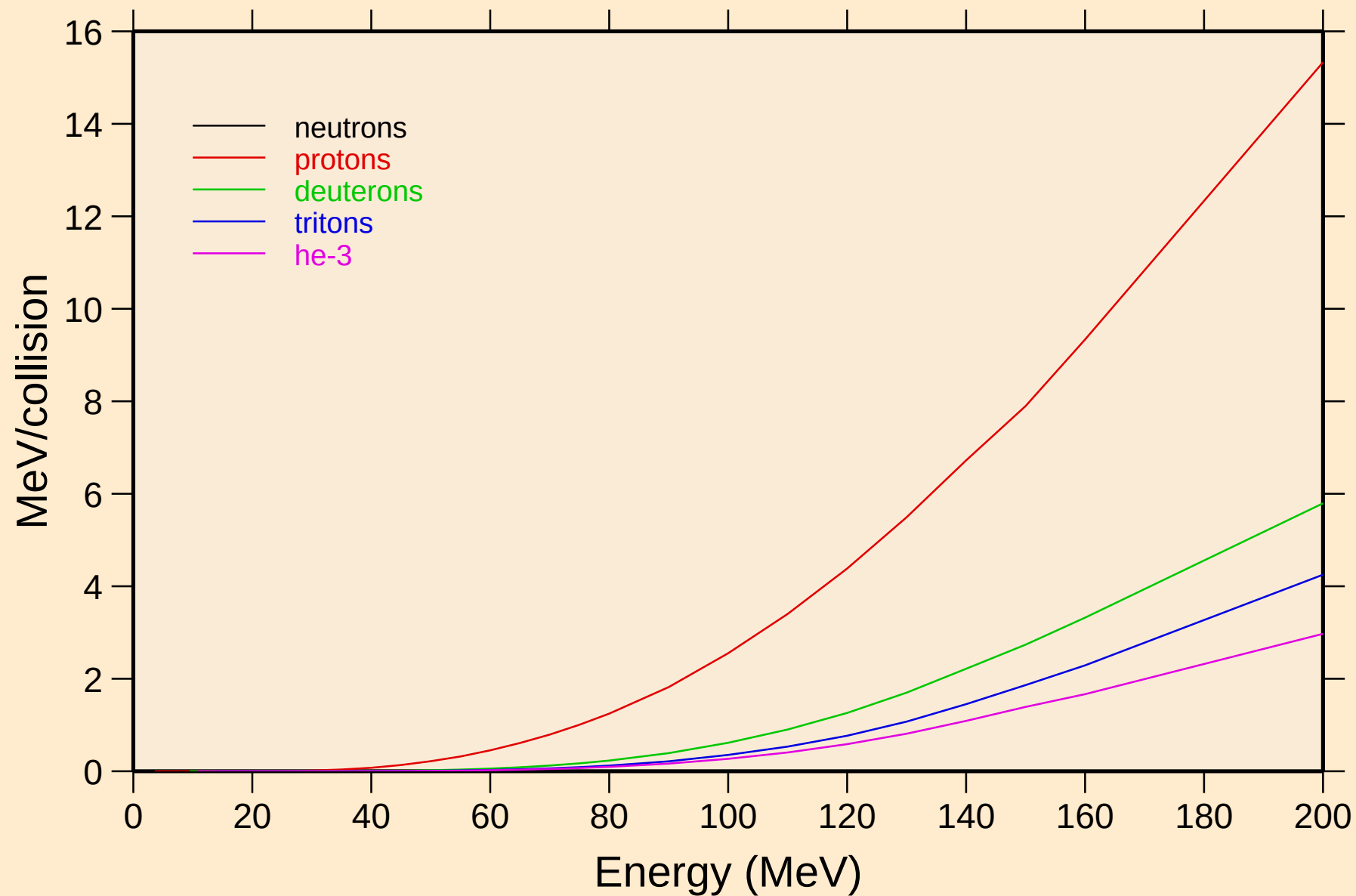


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

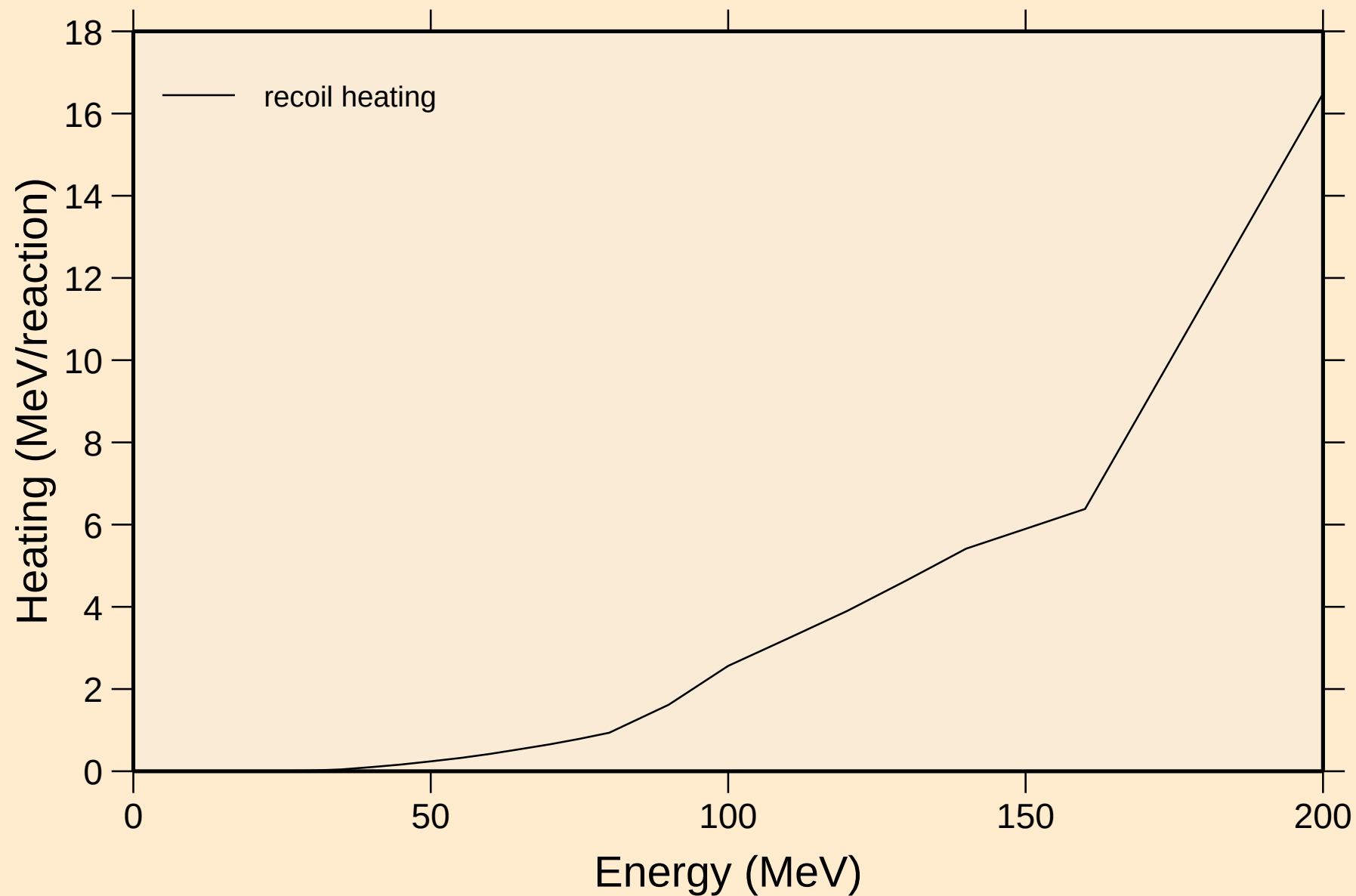
## Particle heating contributions





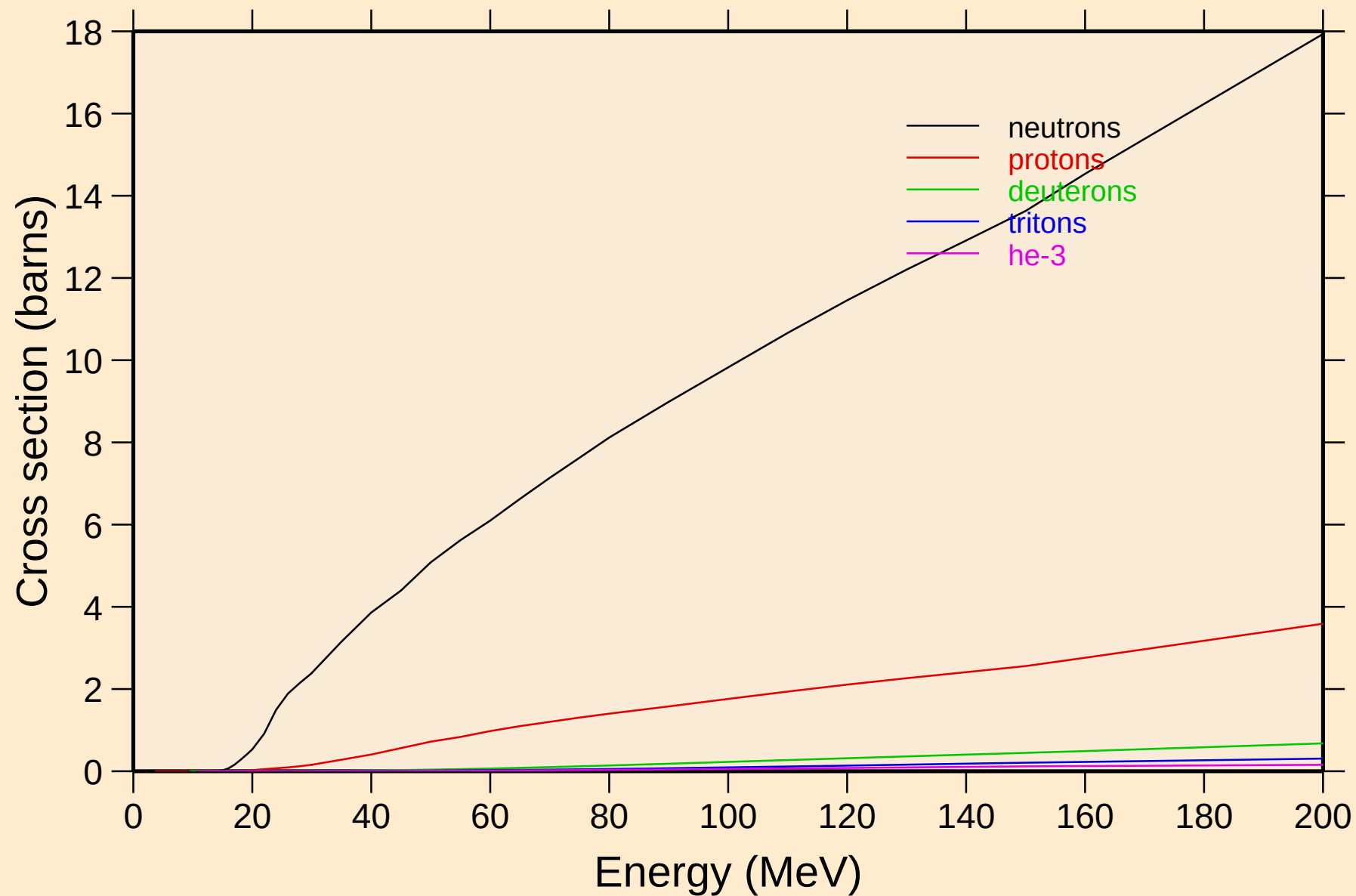
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

## Recoil Heating

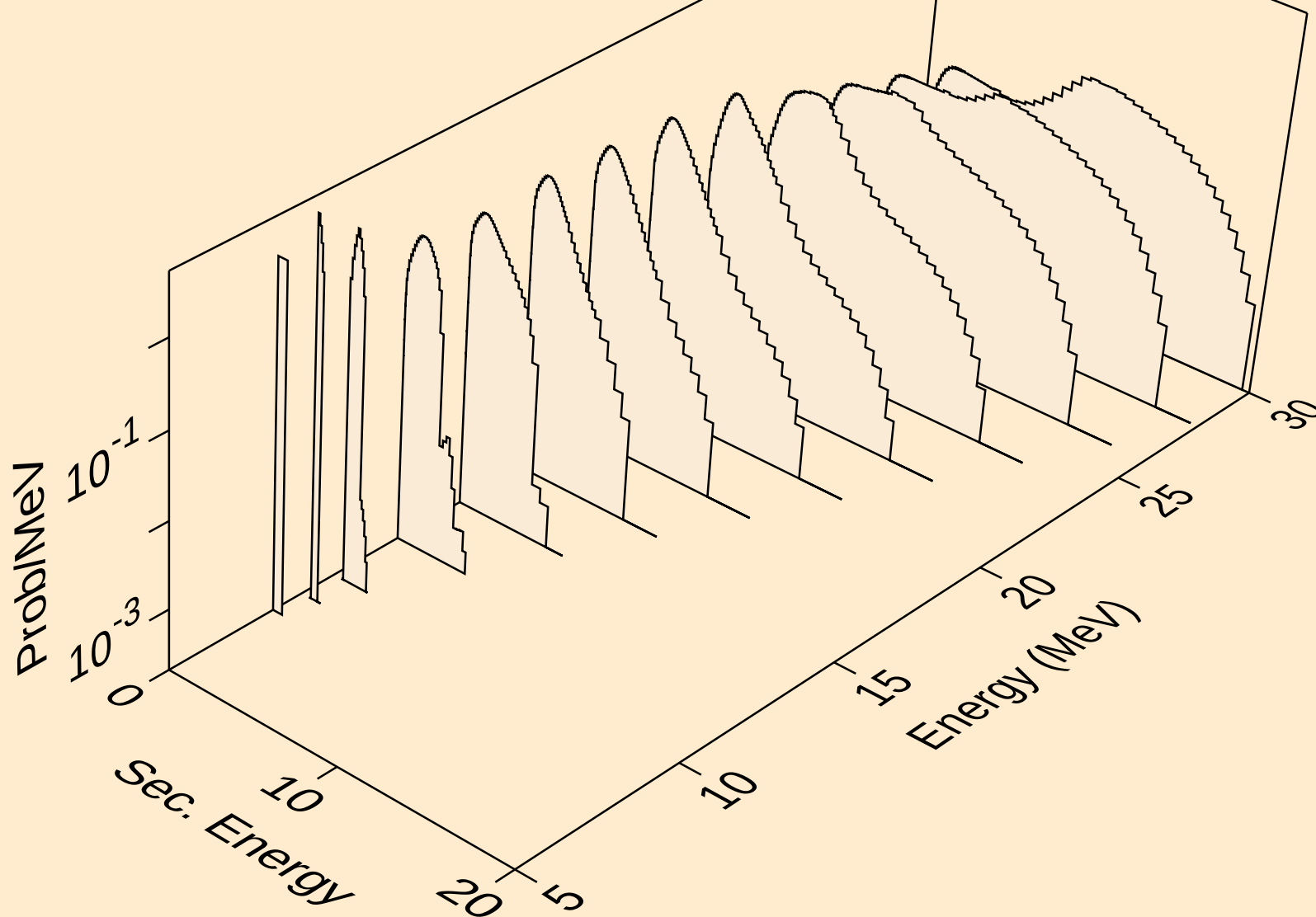


# PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K

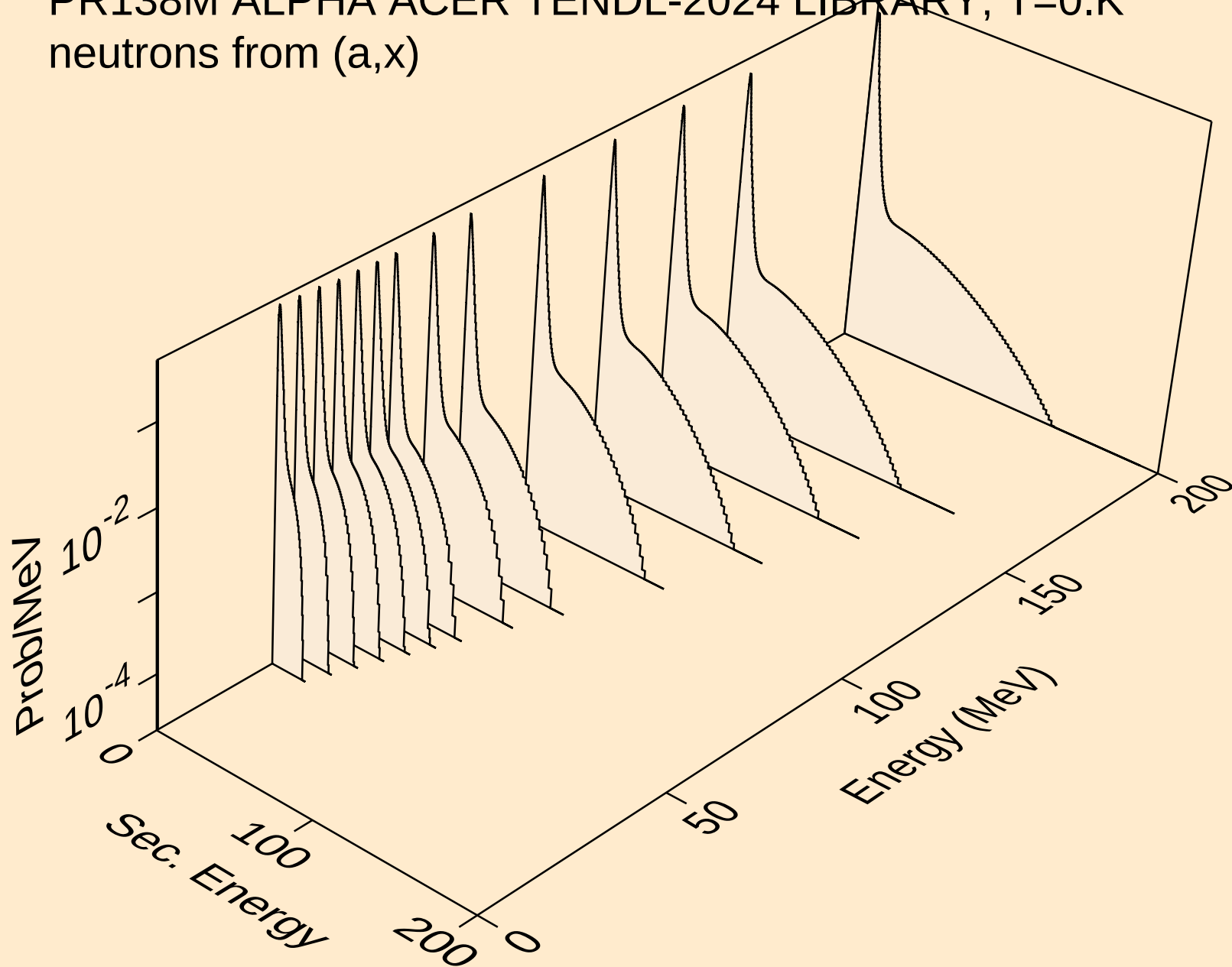
## Particle production cross sections



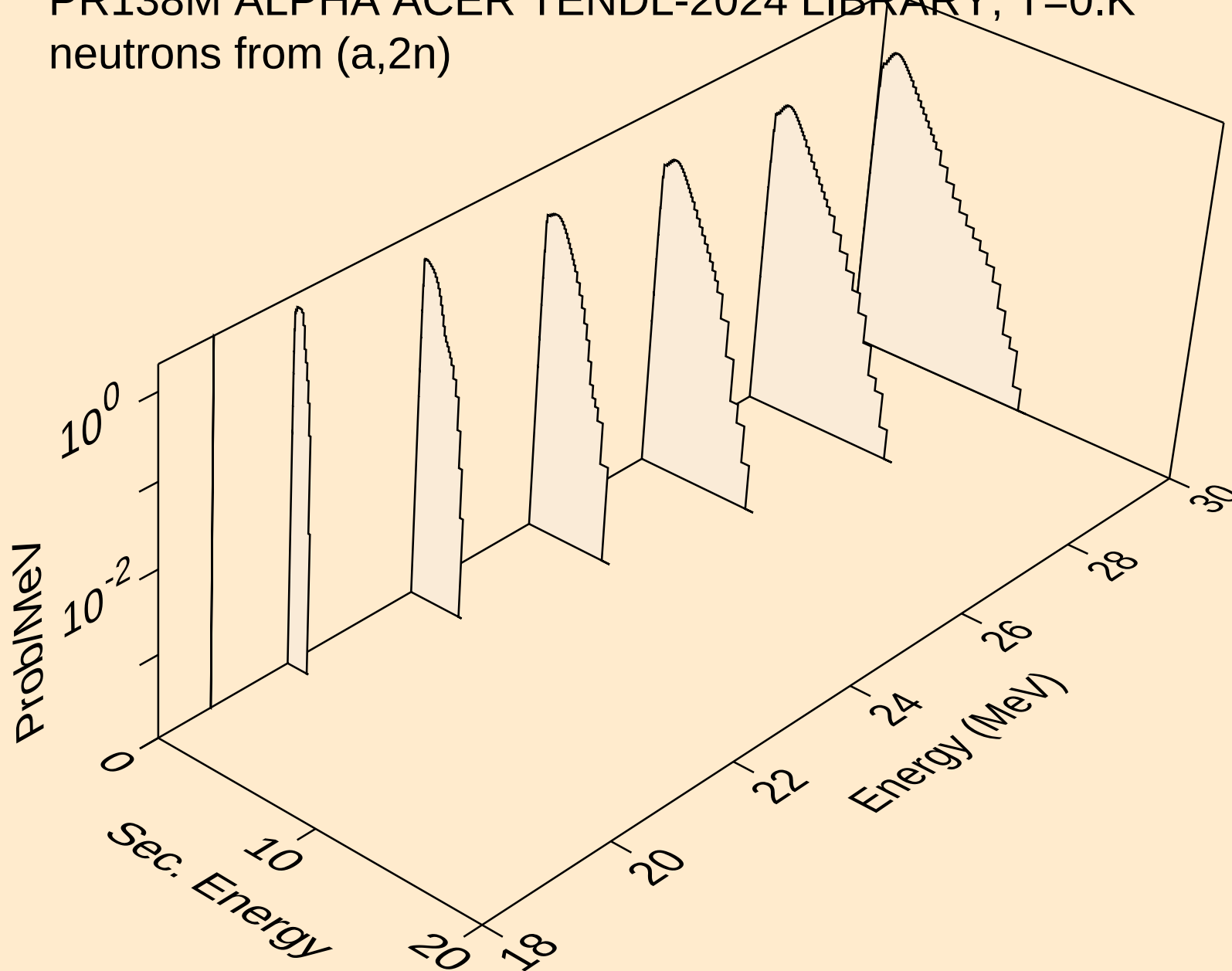
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n)



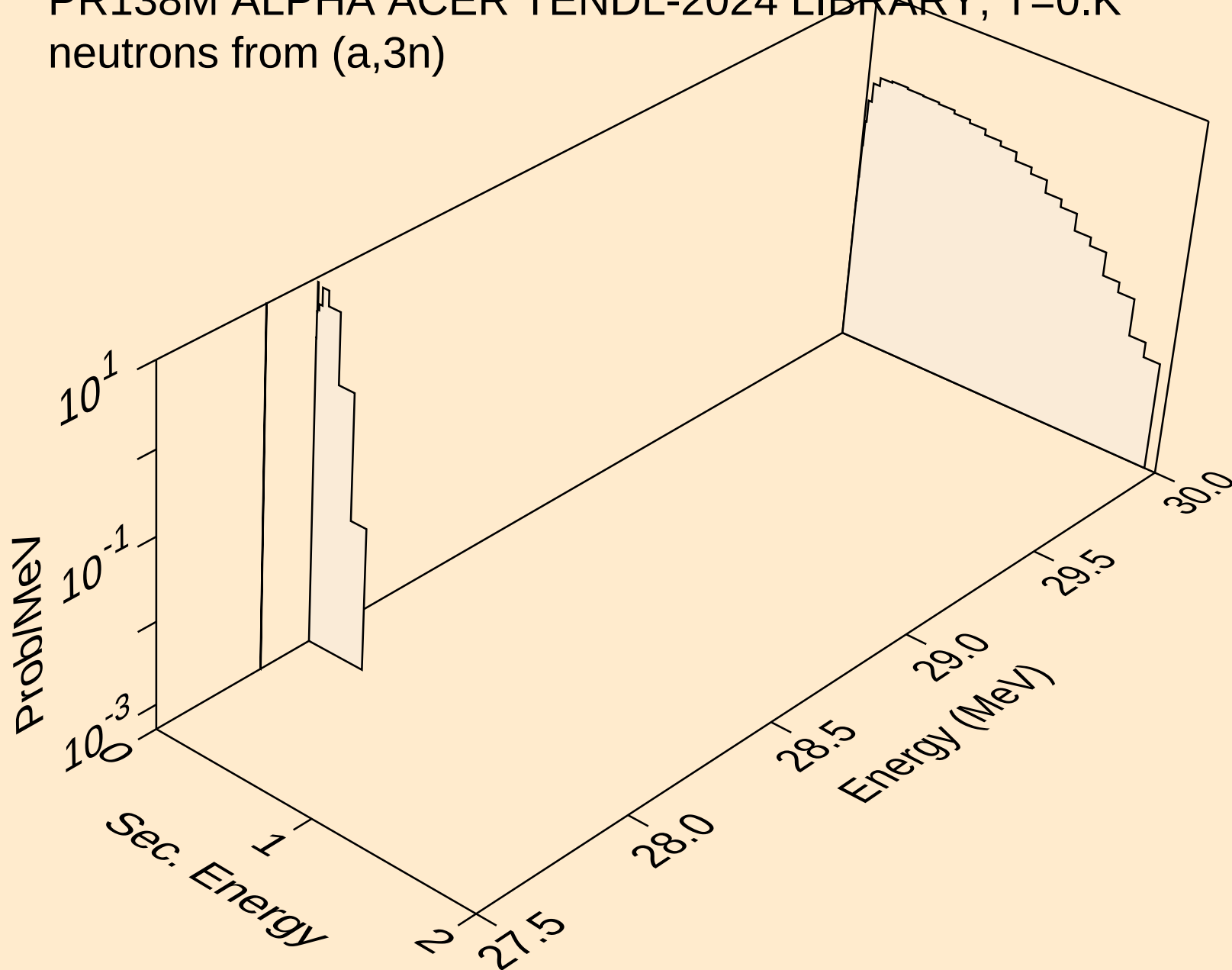
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,x)



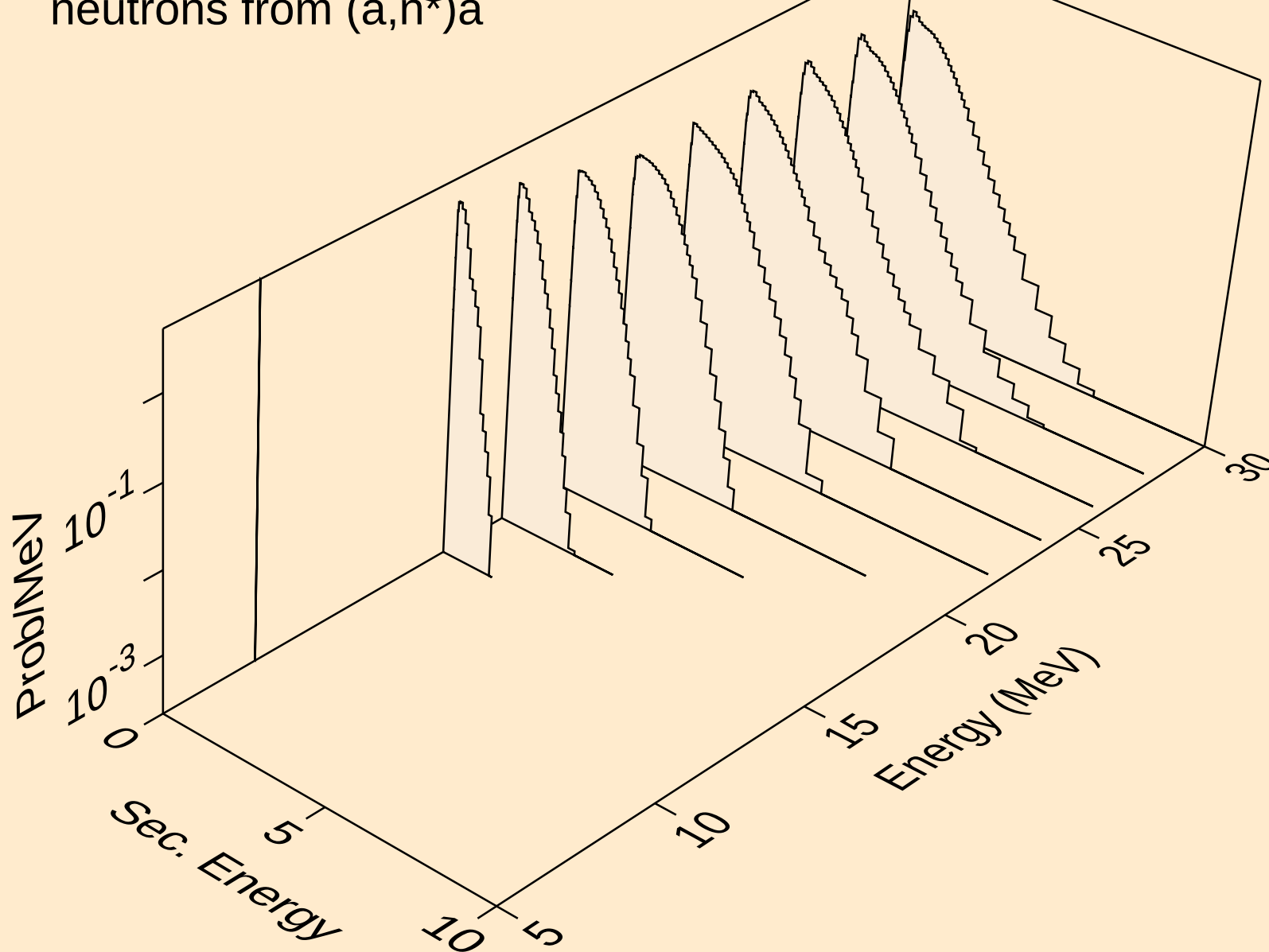
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,2n)



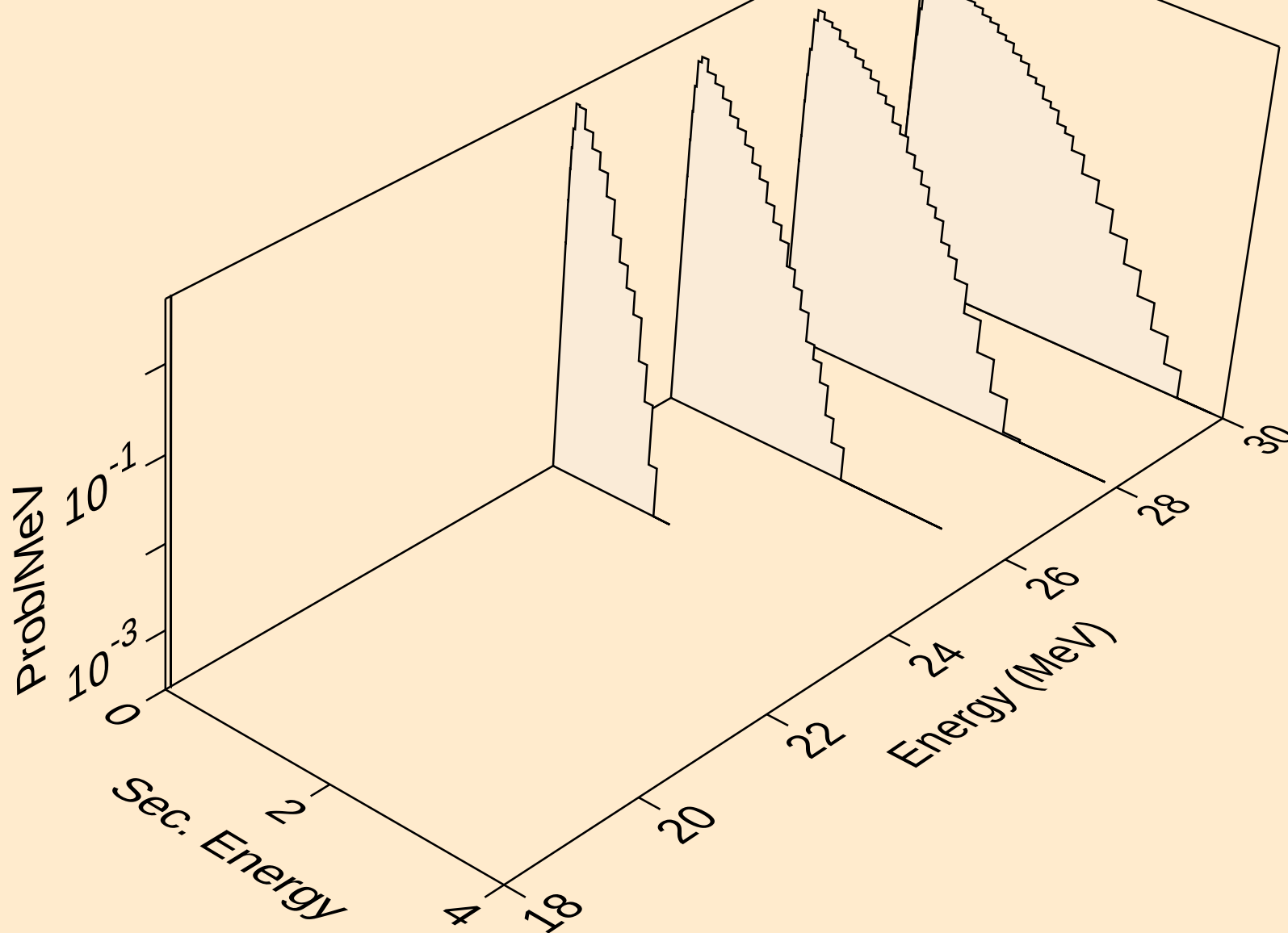
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,3n)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n\*)a

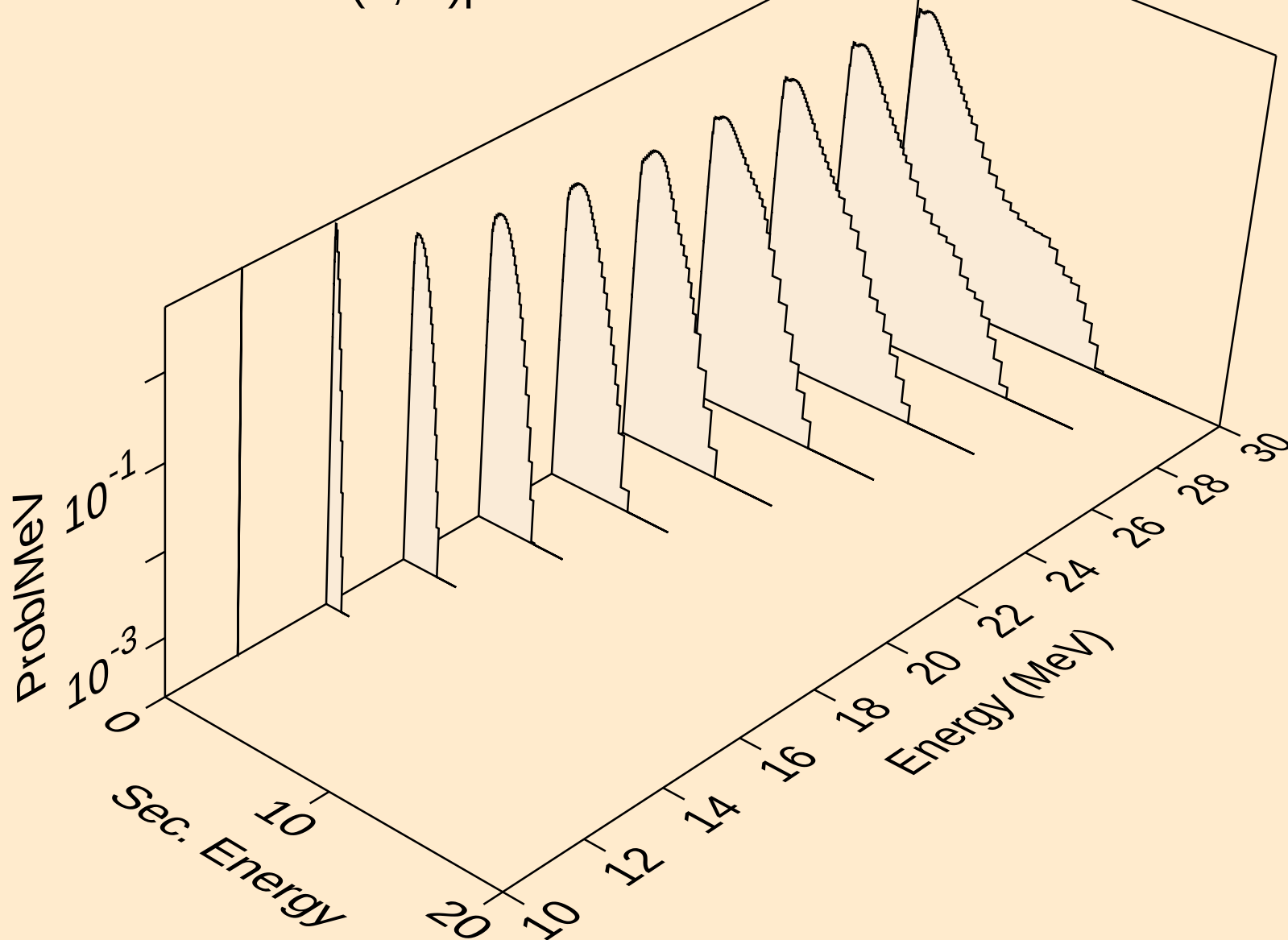


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,2n)a

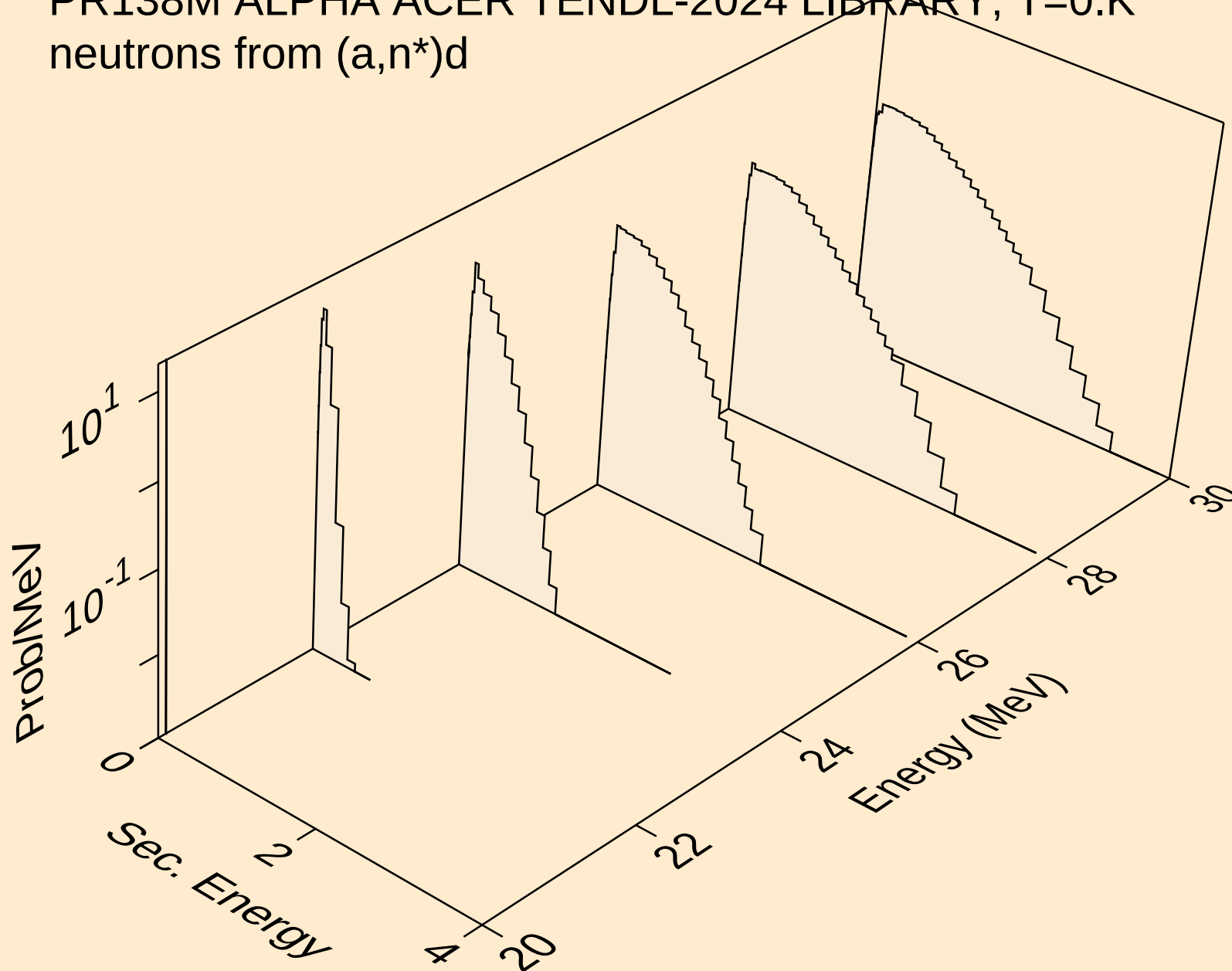




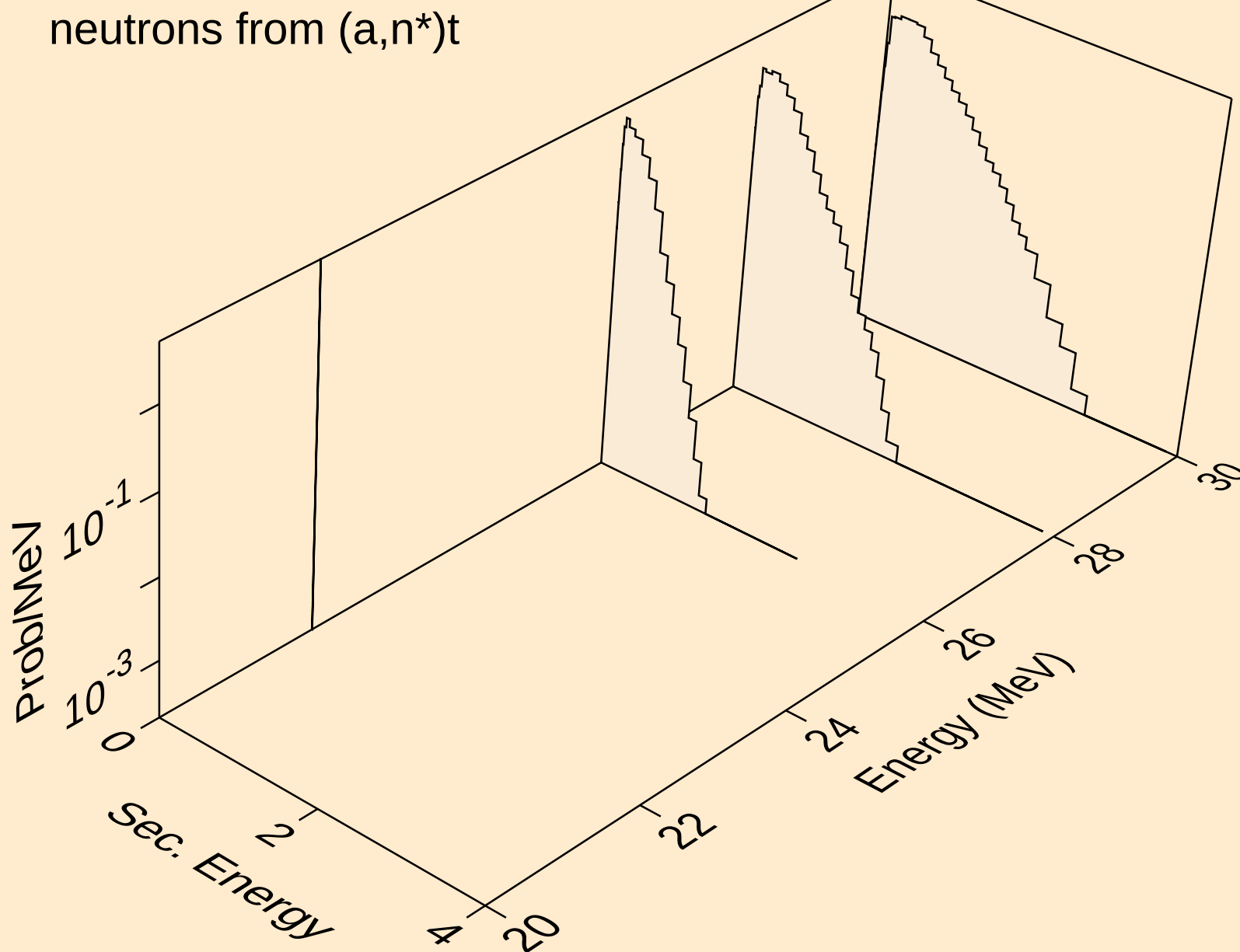
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n\*)p



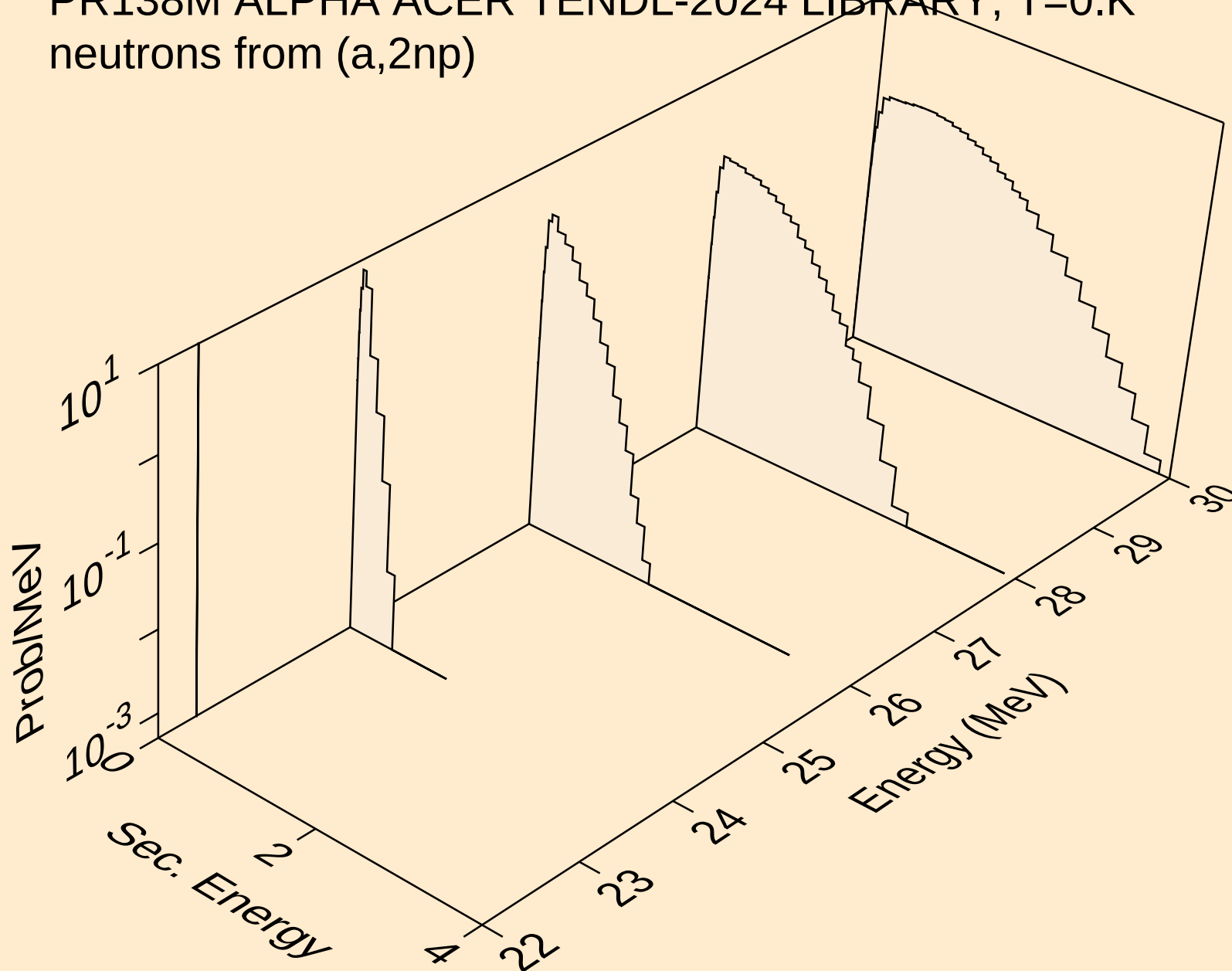
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n\*)d



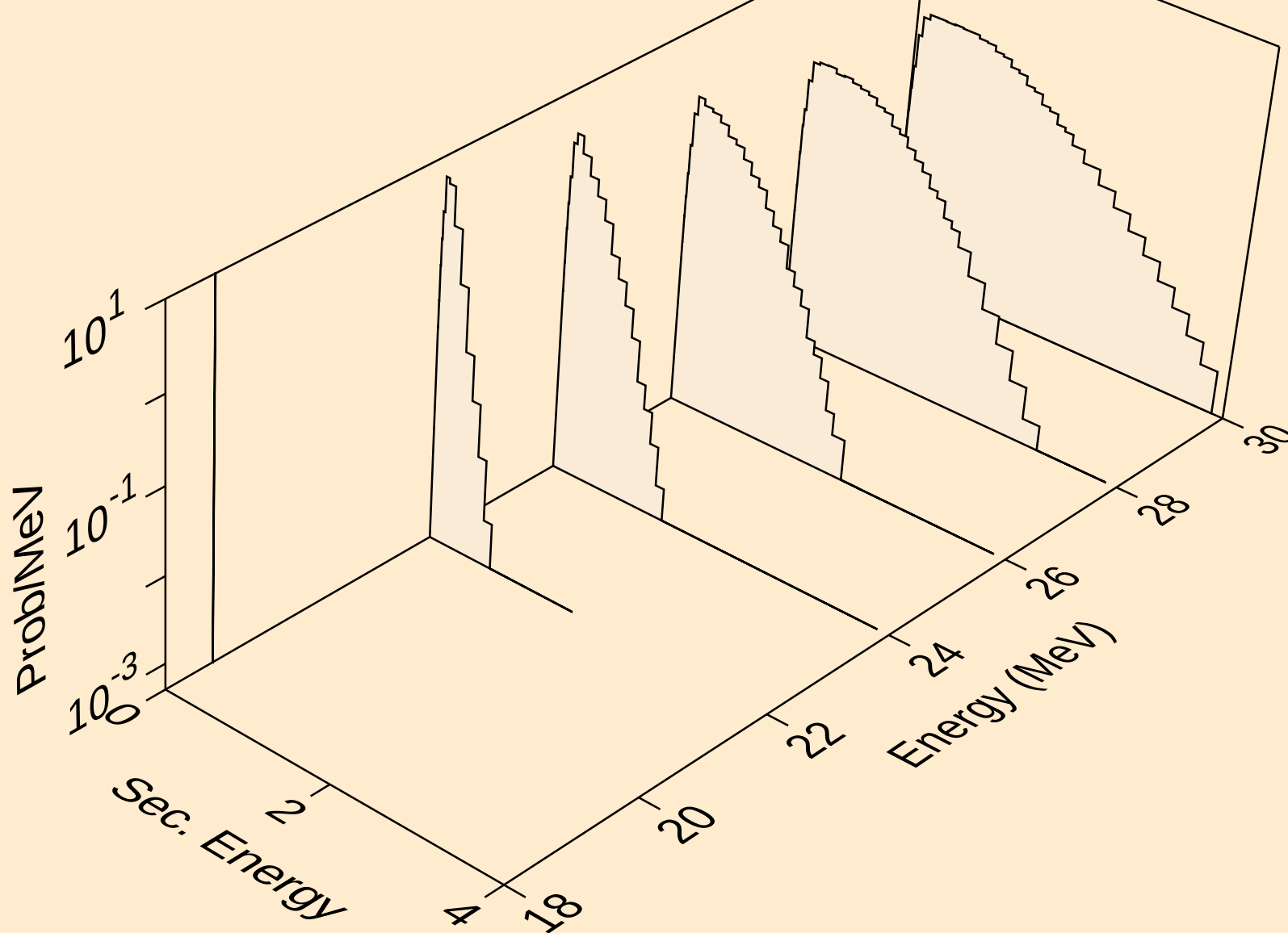
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n\*)t



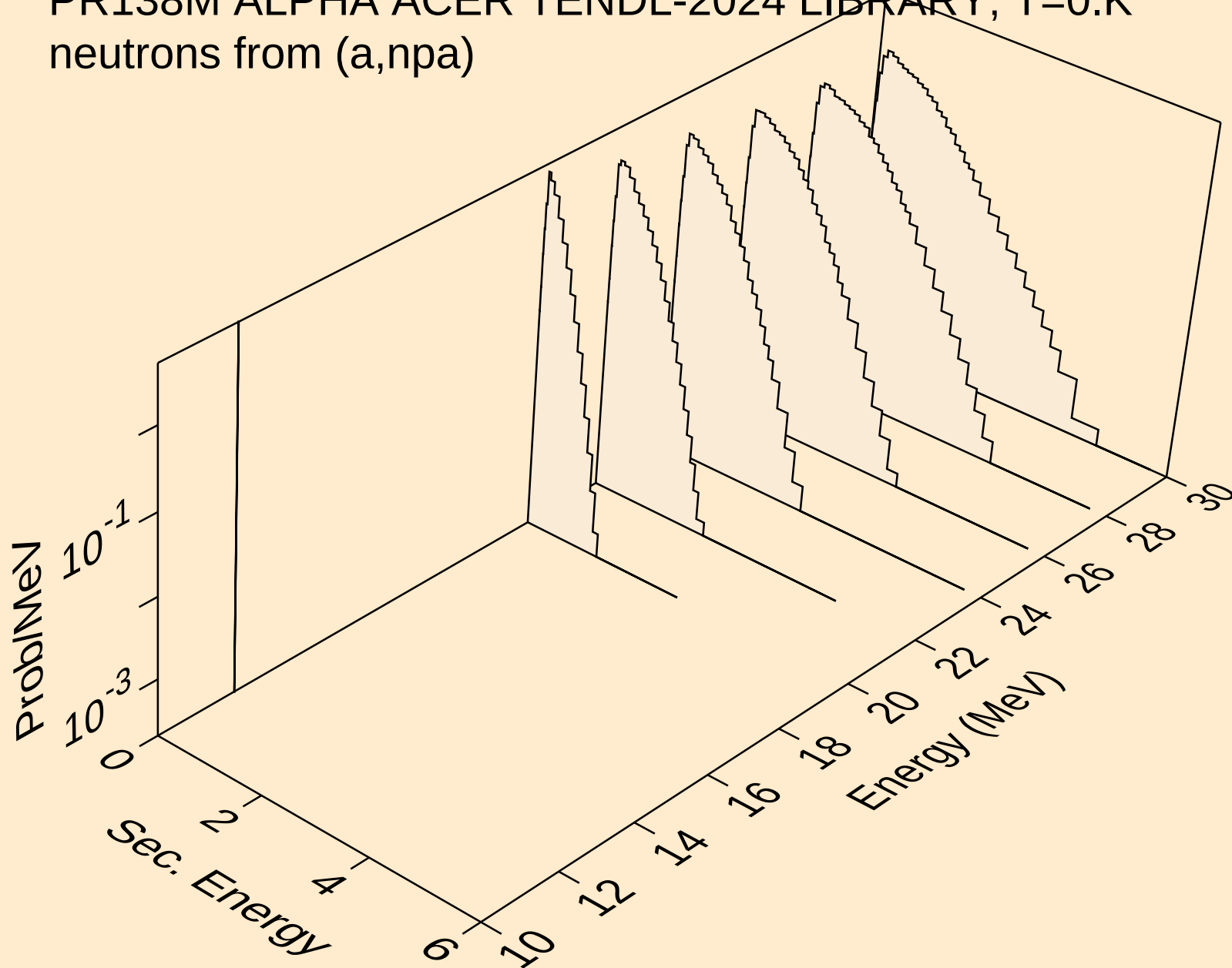
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,2np)



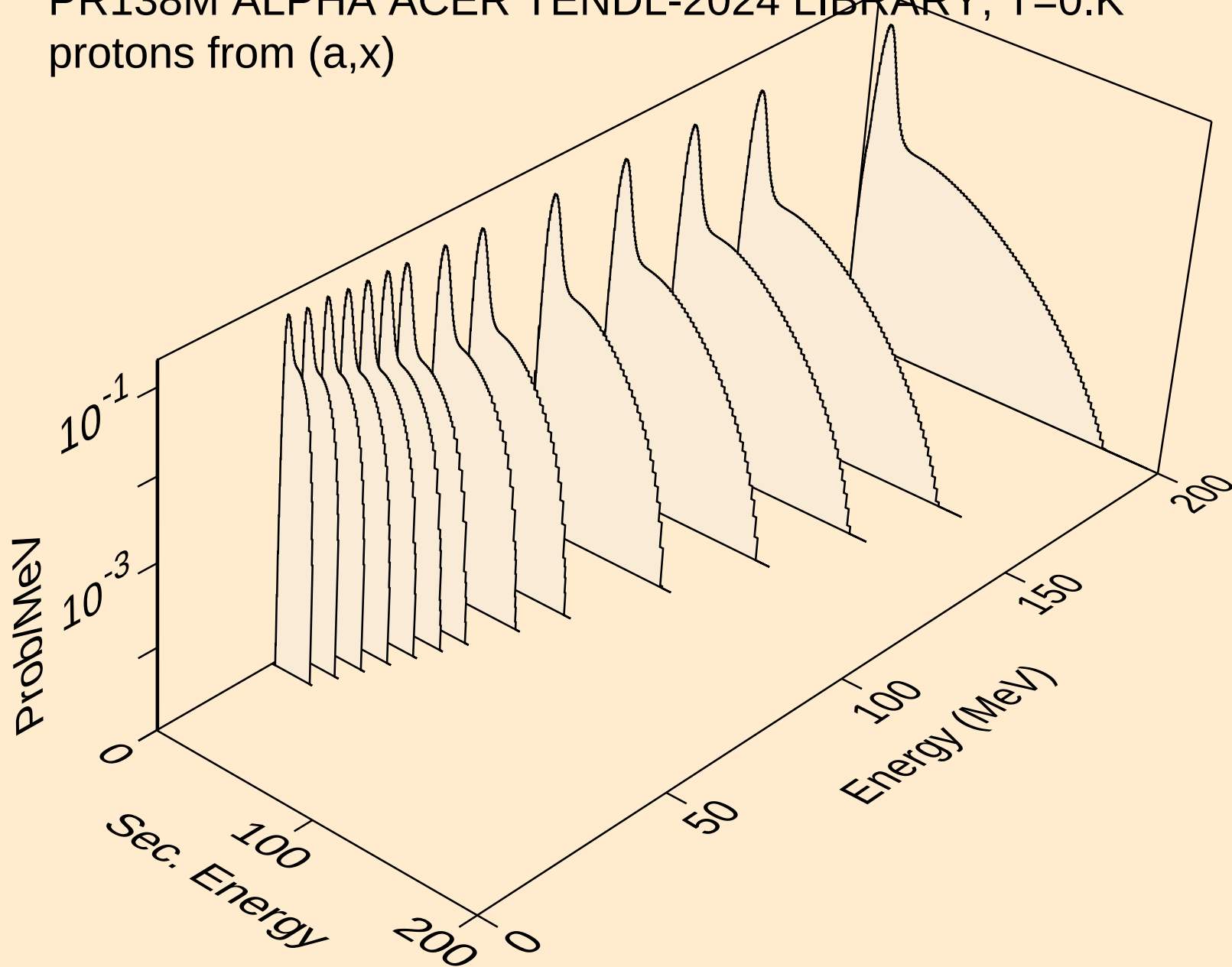
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,n2p)



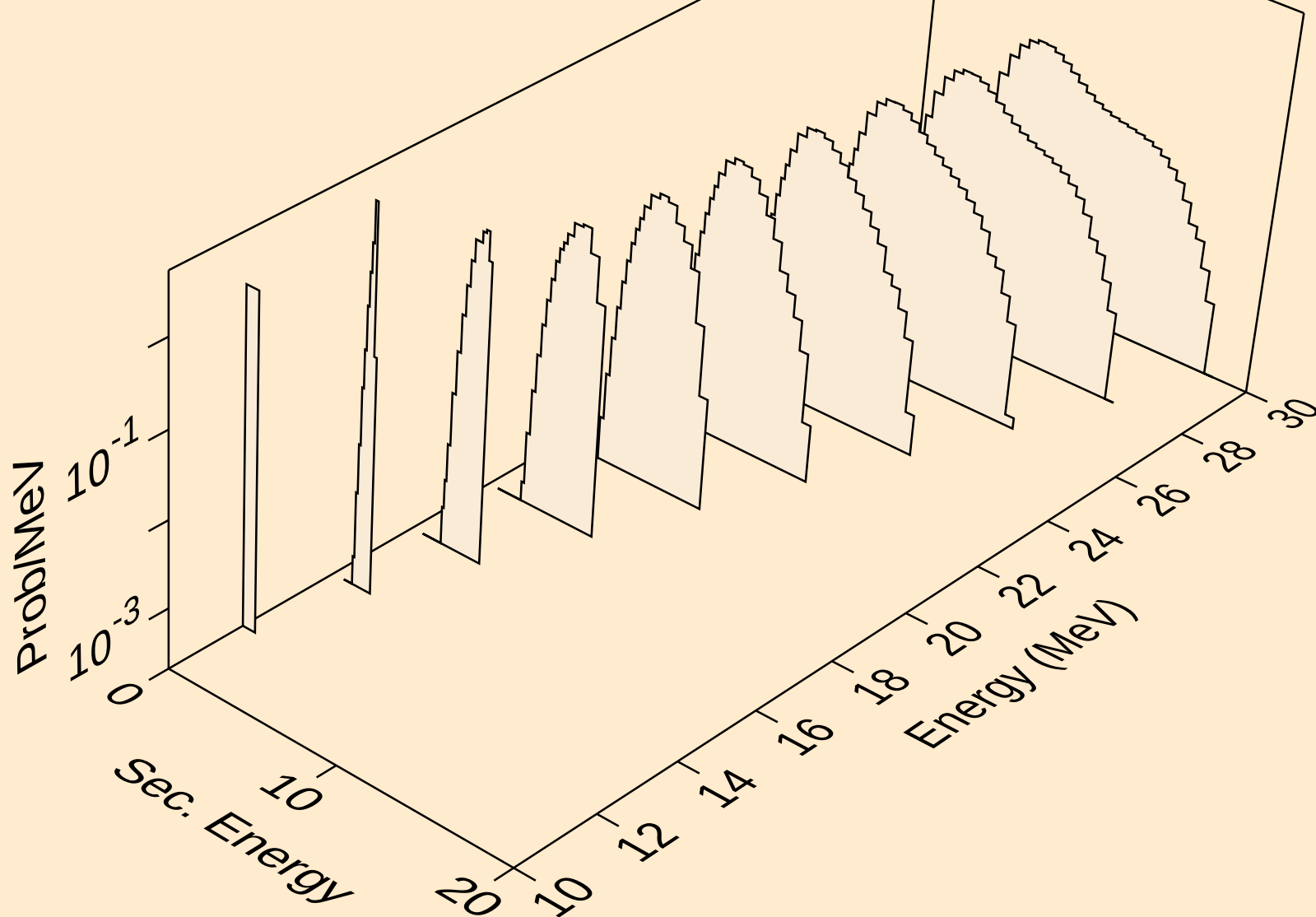
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (a,npa)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
protons from (a,x)

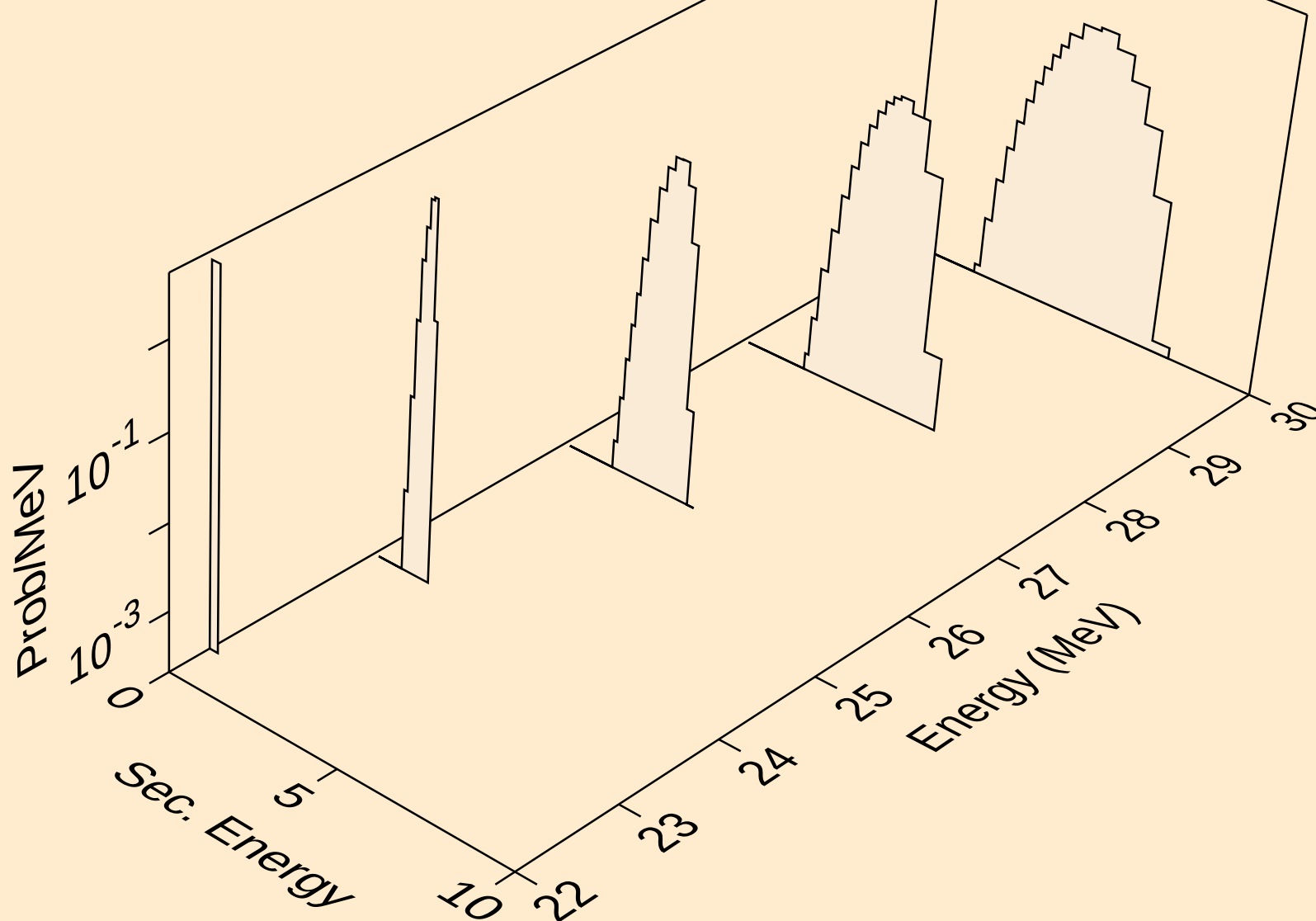


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
protons from (a,n\*)p

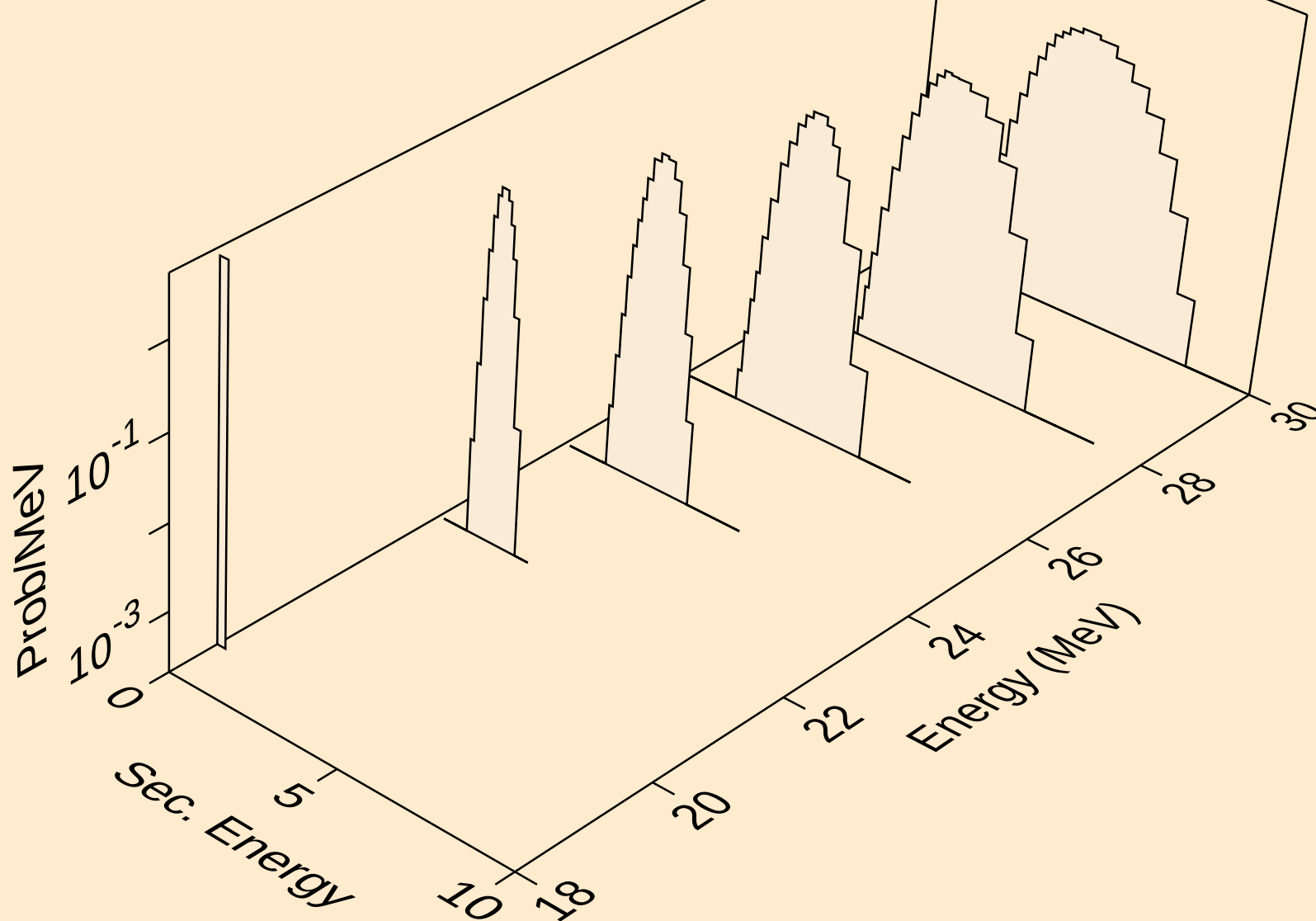




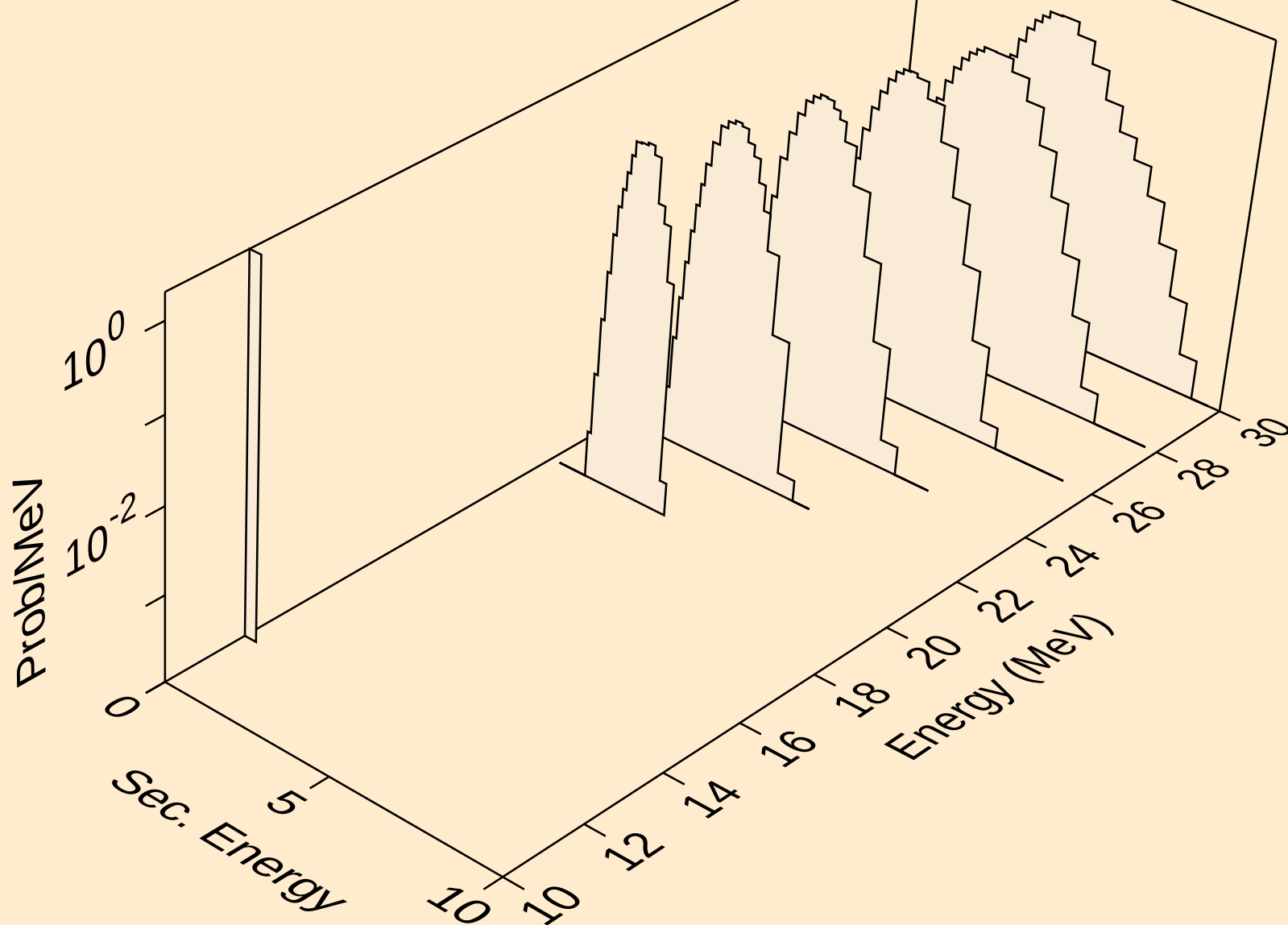
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protons from (a,2np)



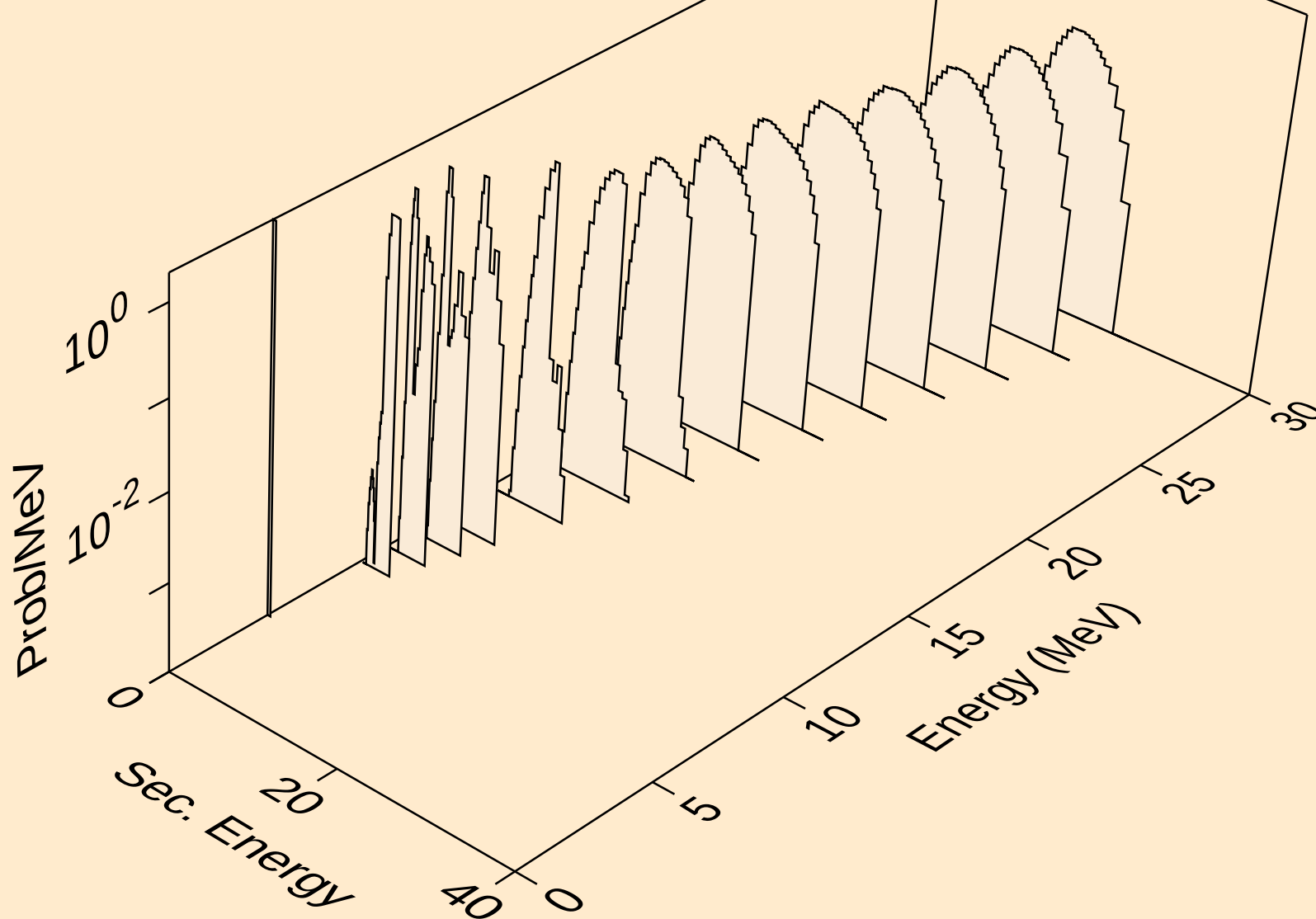
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protons from (a,n2p)



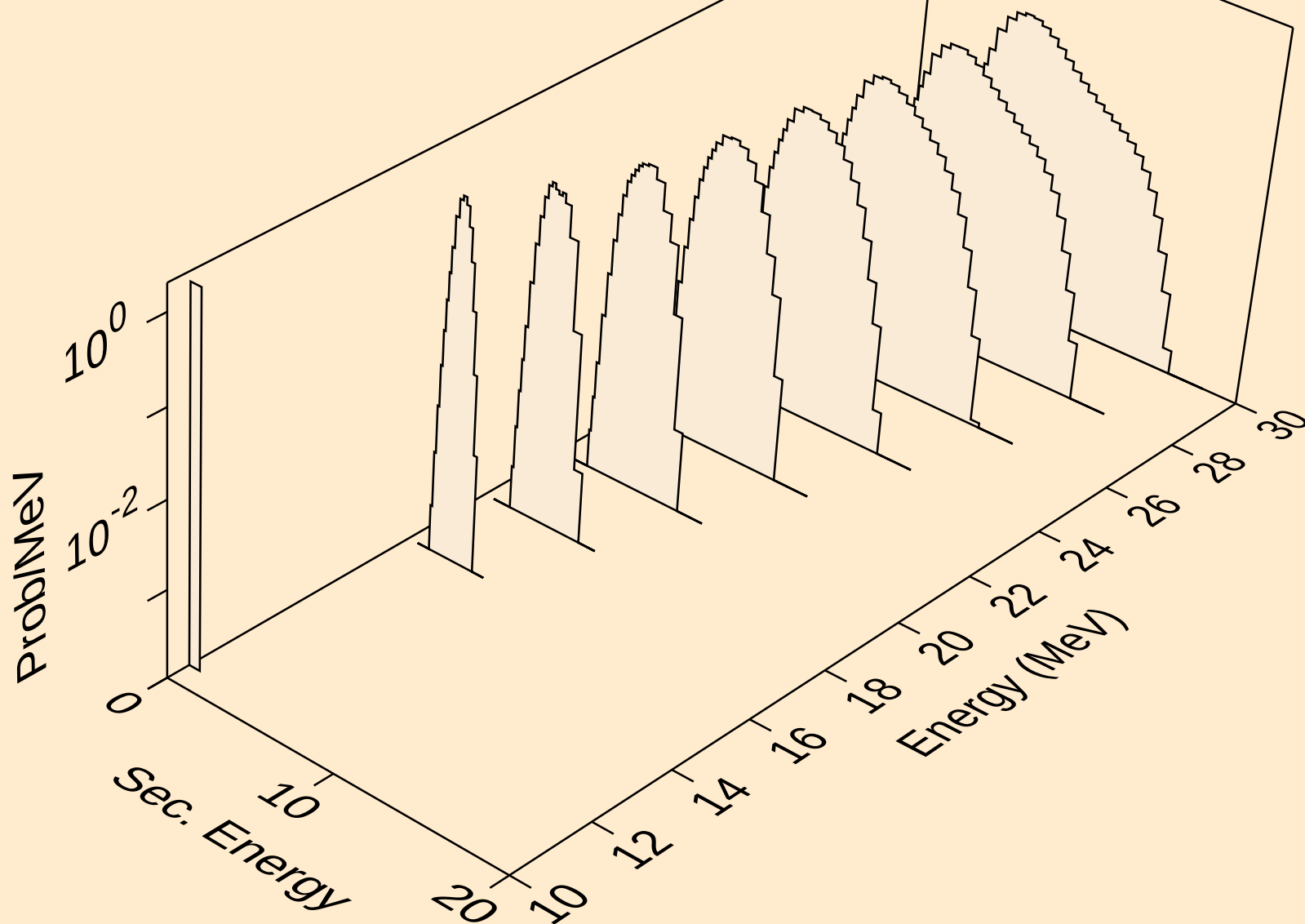
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protons from (a,npa)



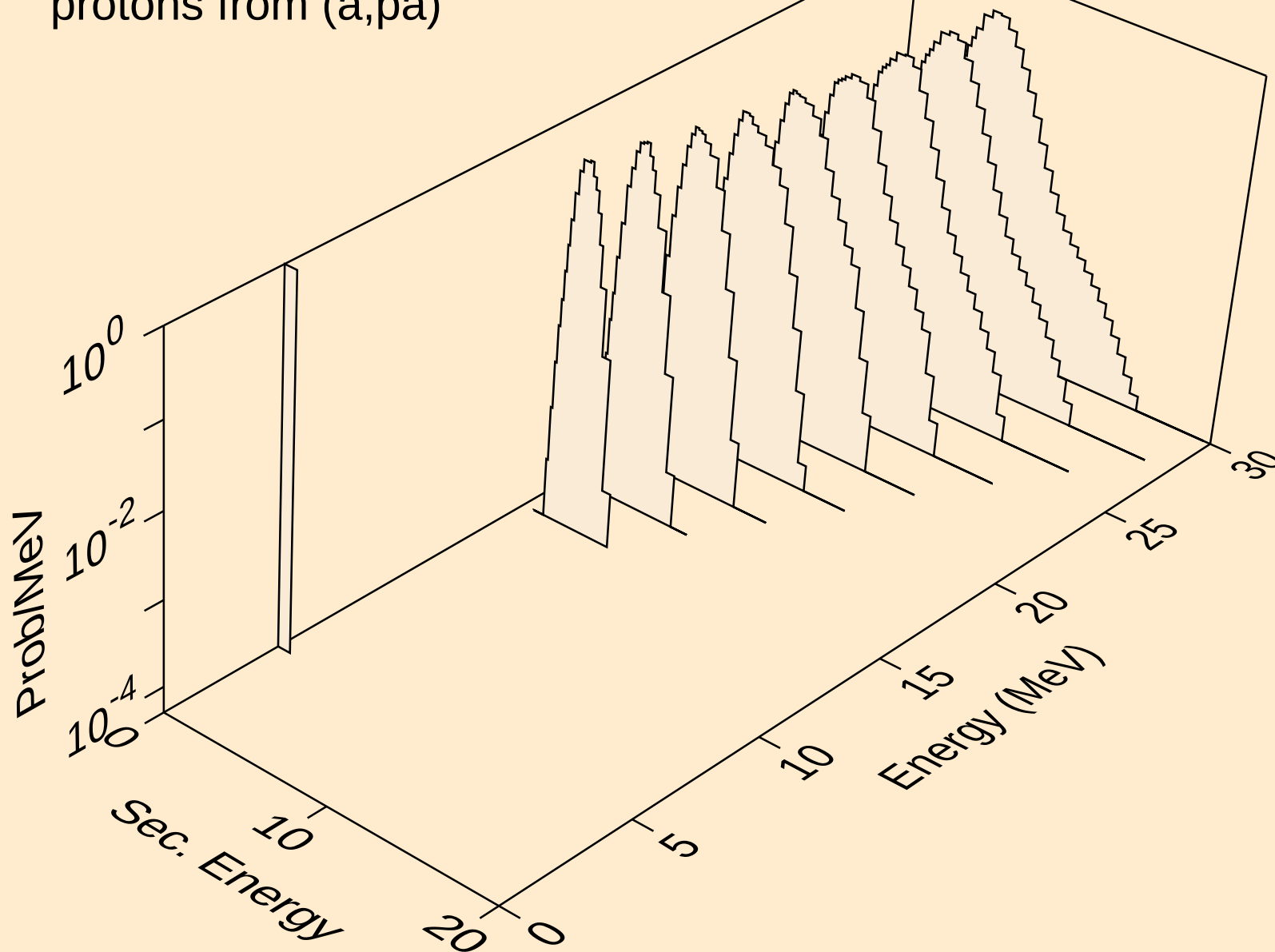
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
protons from (a,p)



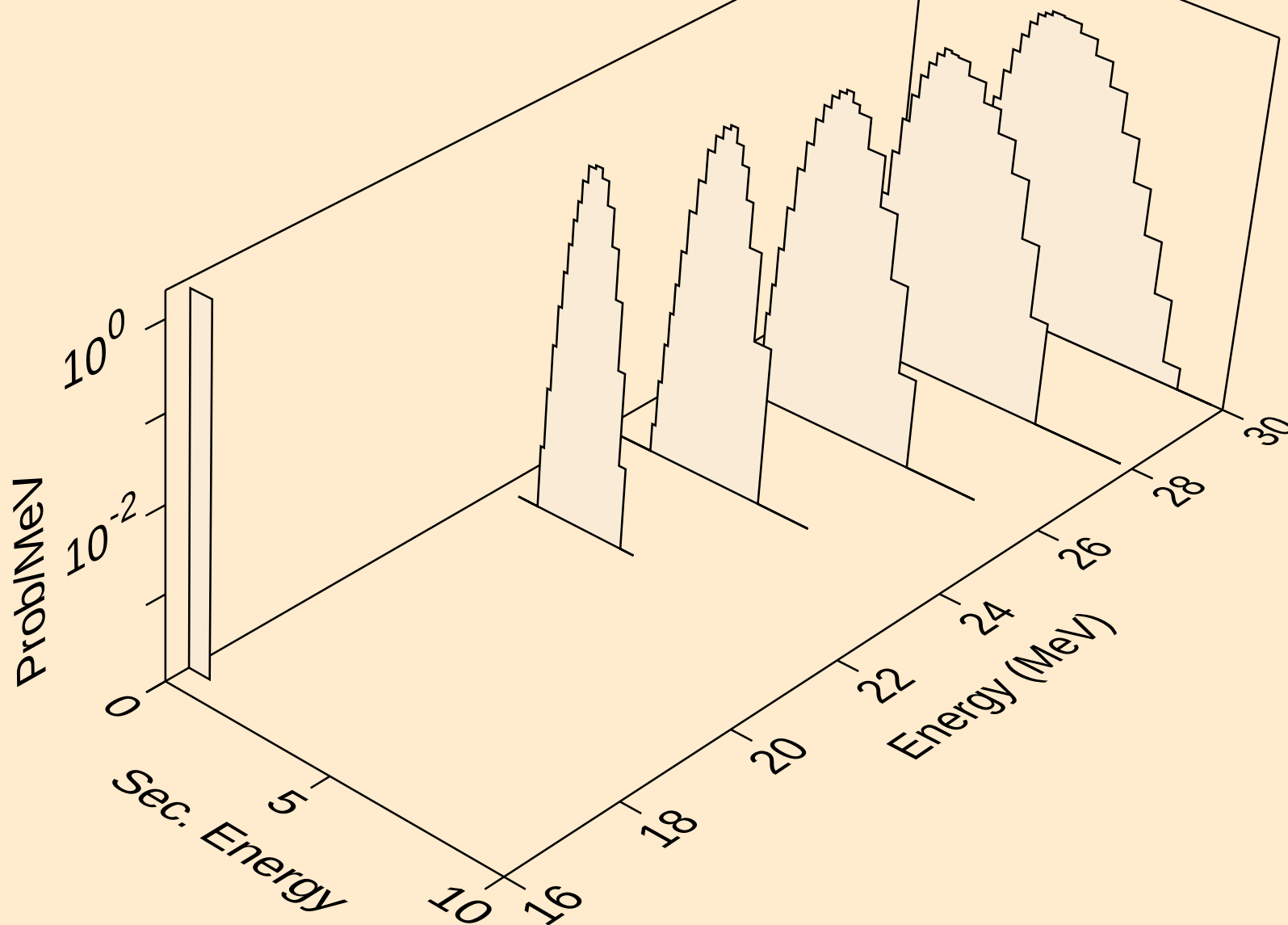
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protons from (a,2p)



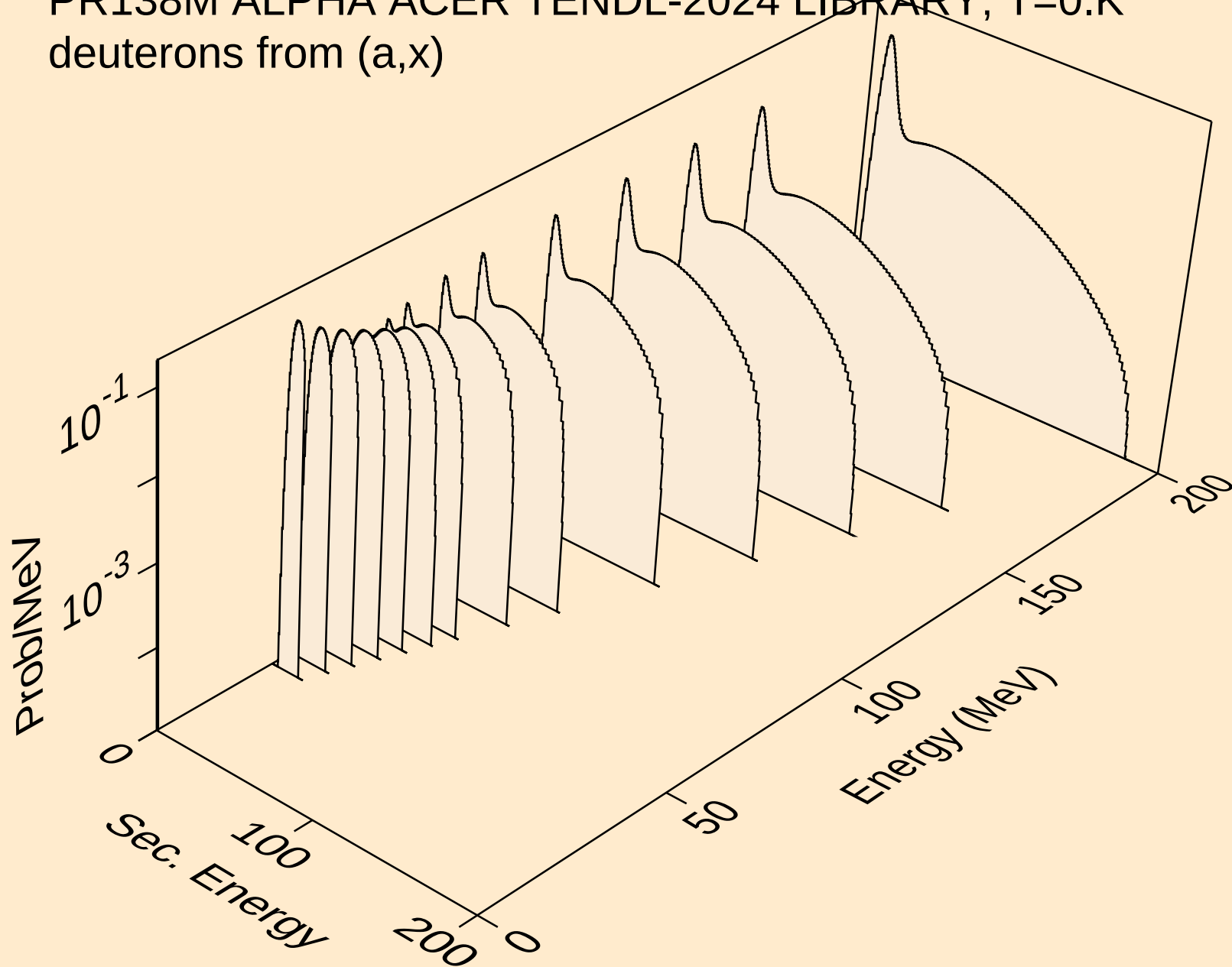
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
protons from (a,pa)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
protons from (a,pd)

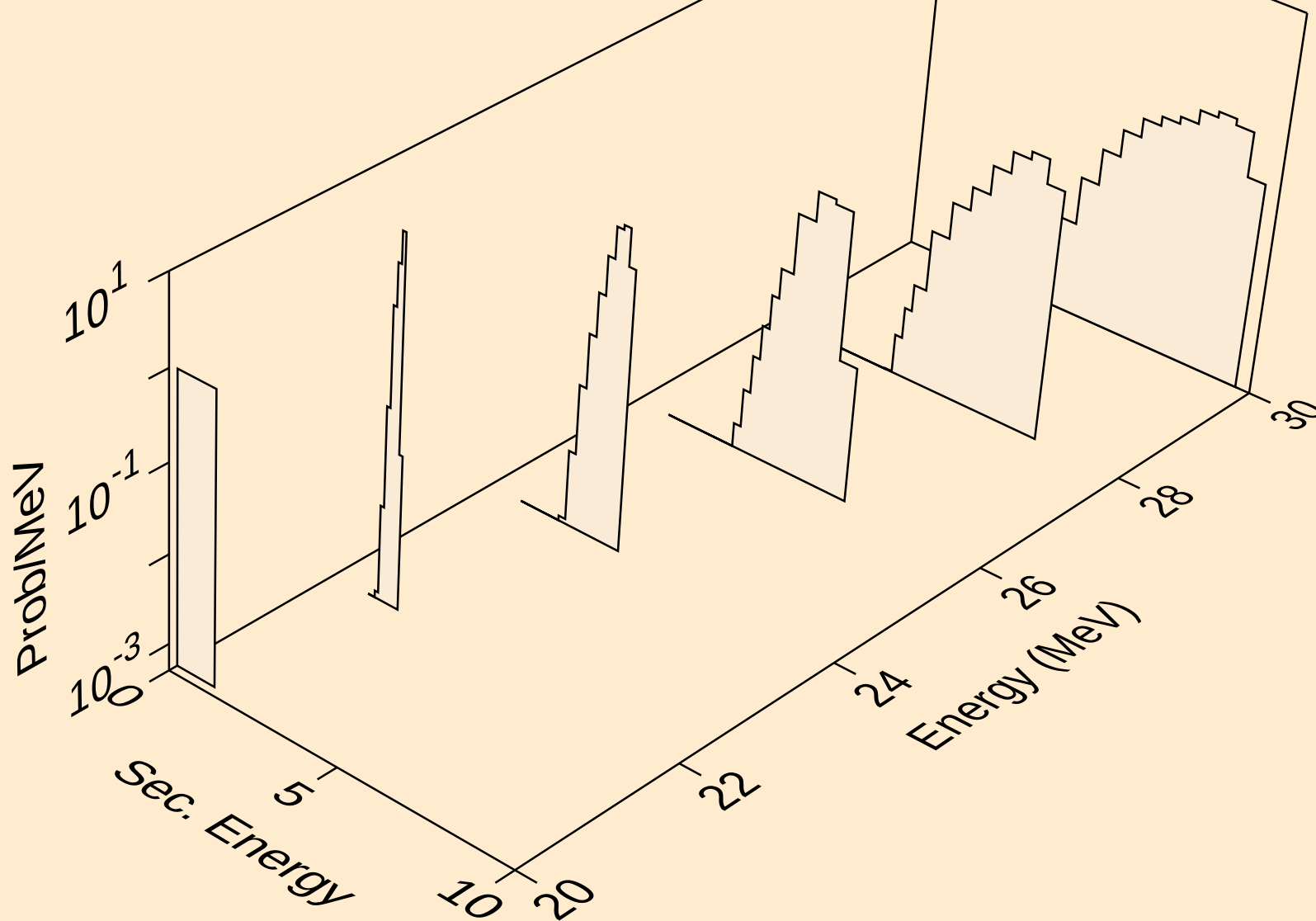


PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (a,x)

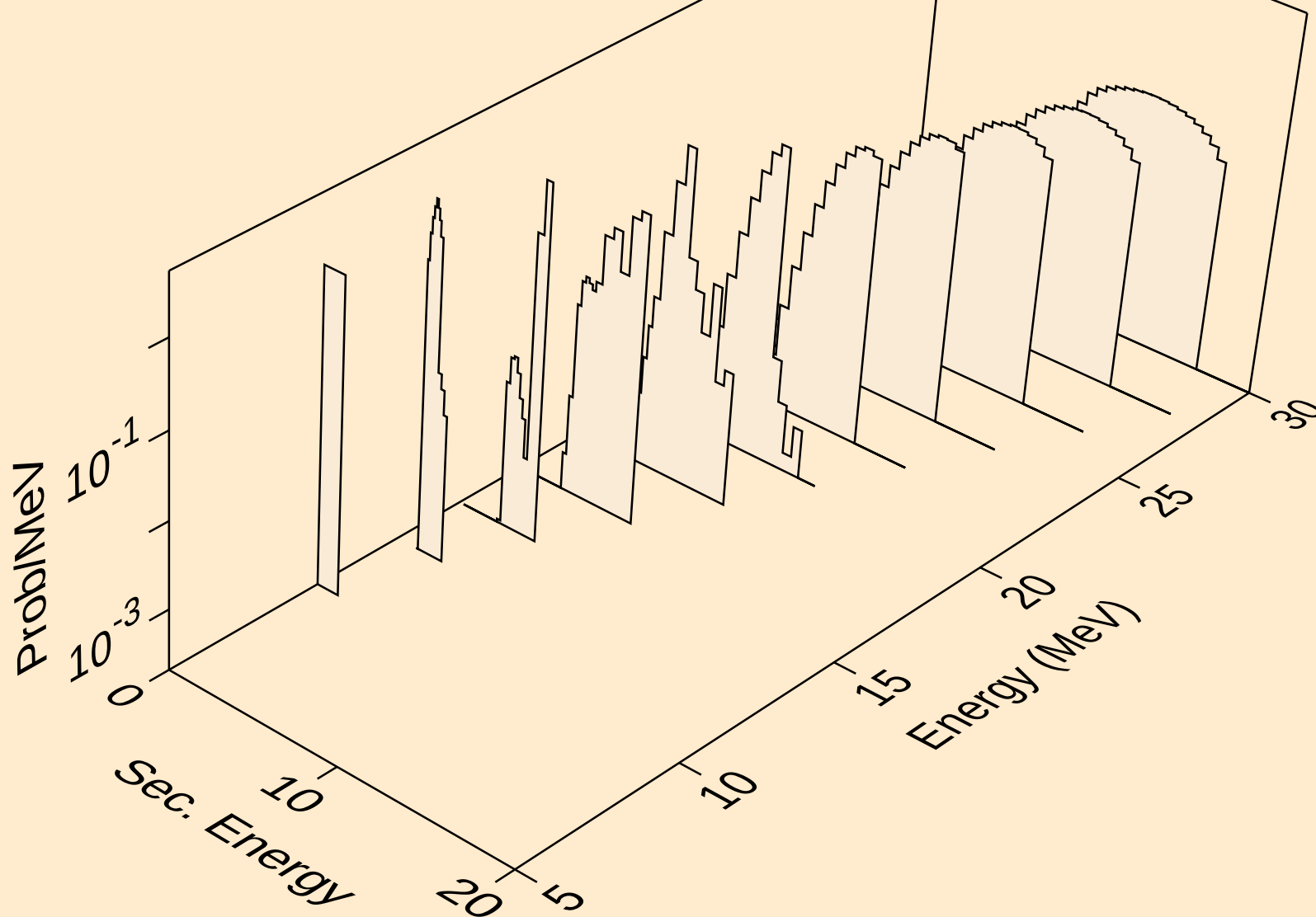




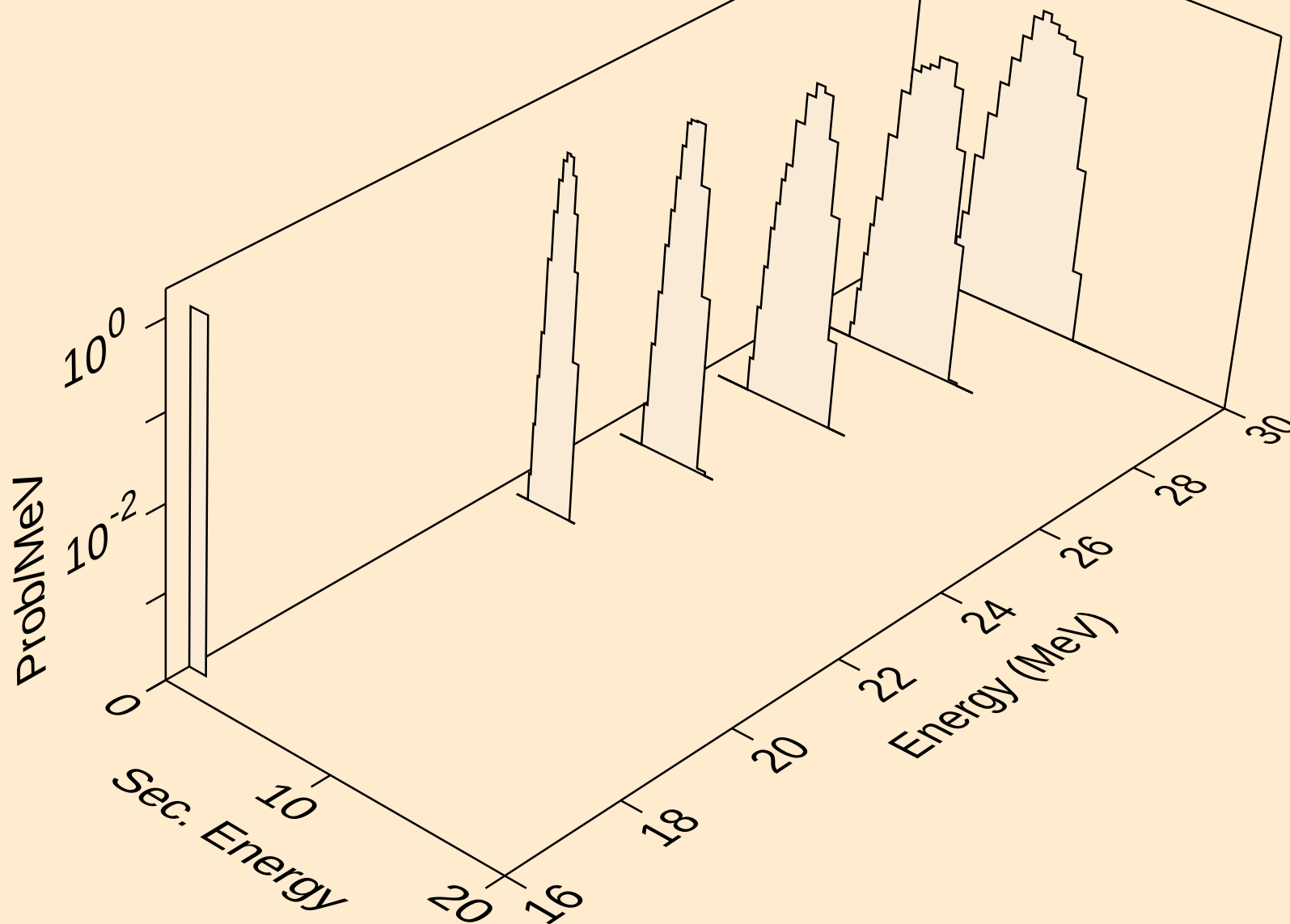
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (a,n\*)d



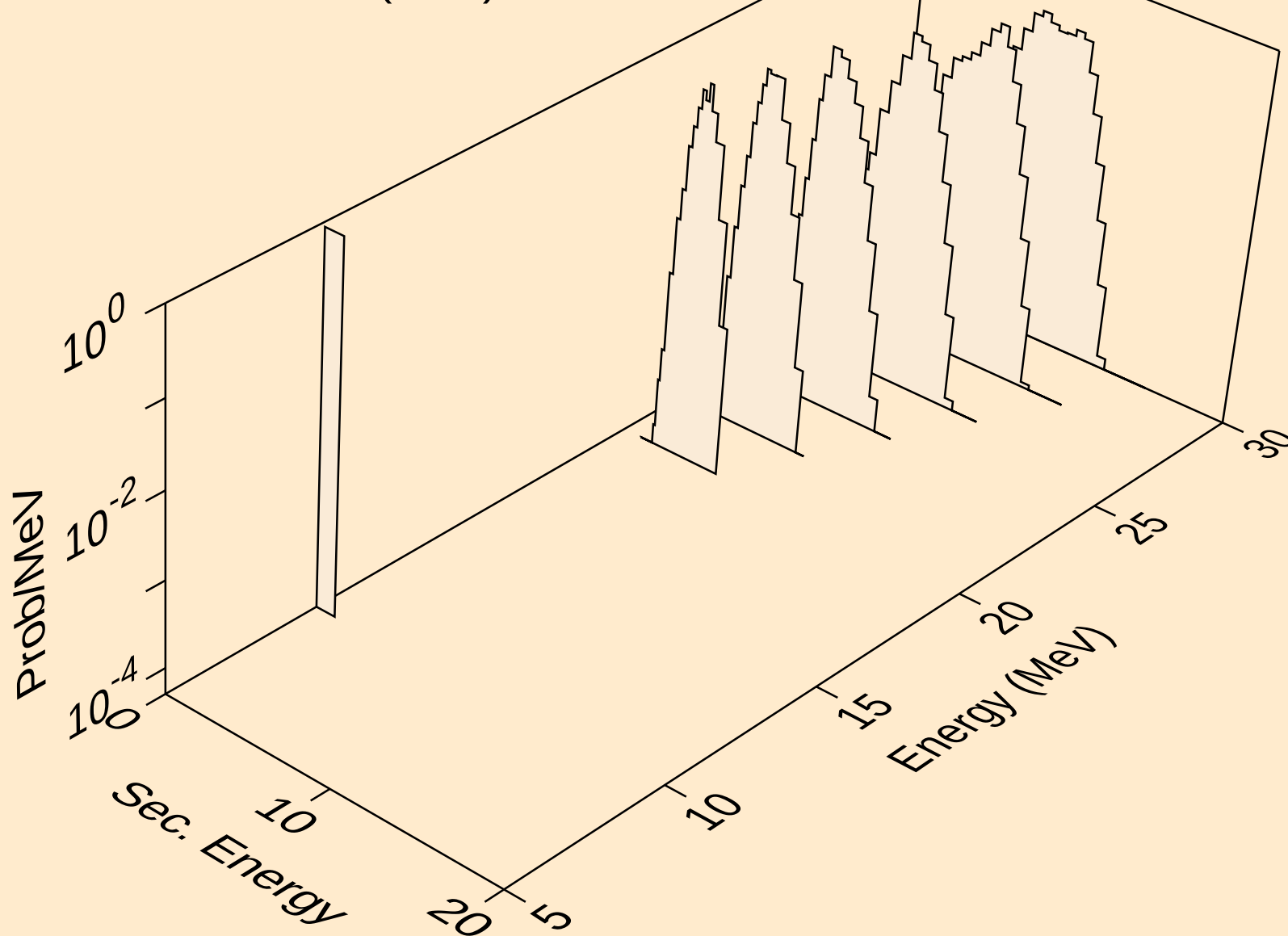
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (a,d)



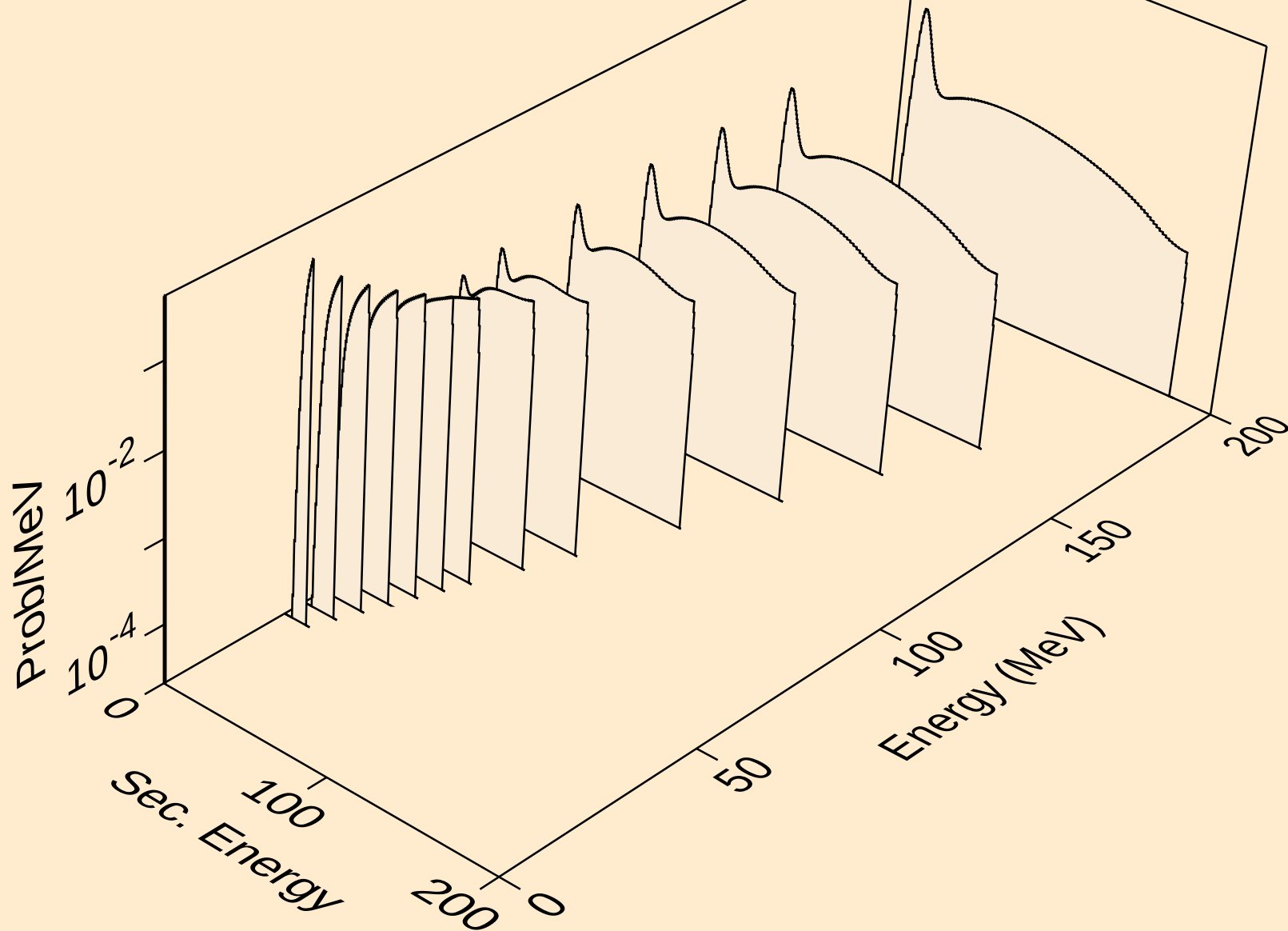
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (a,pd)



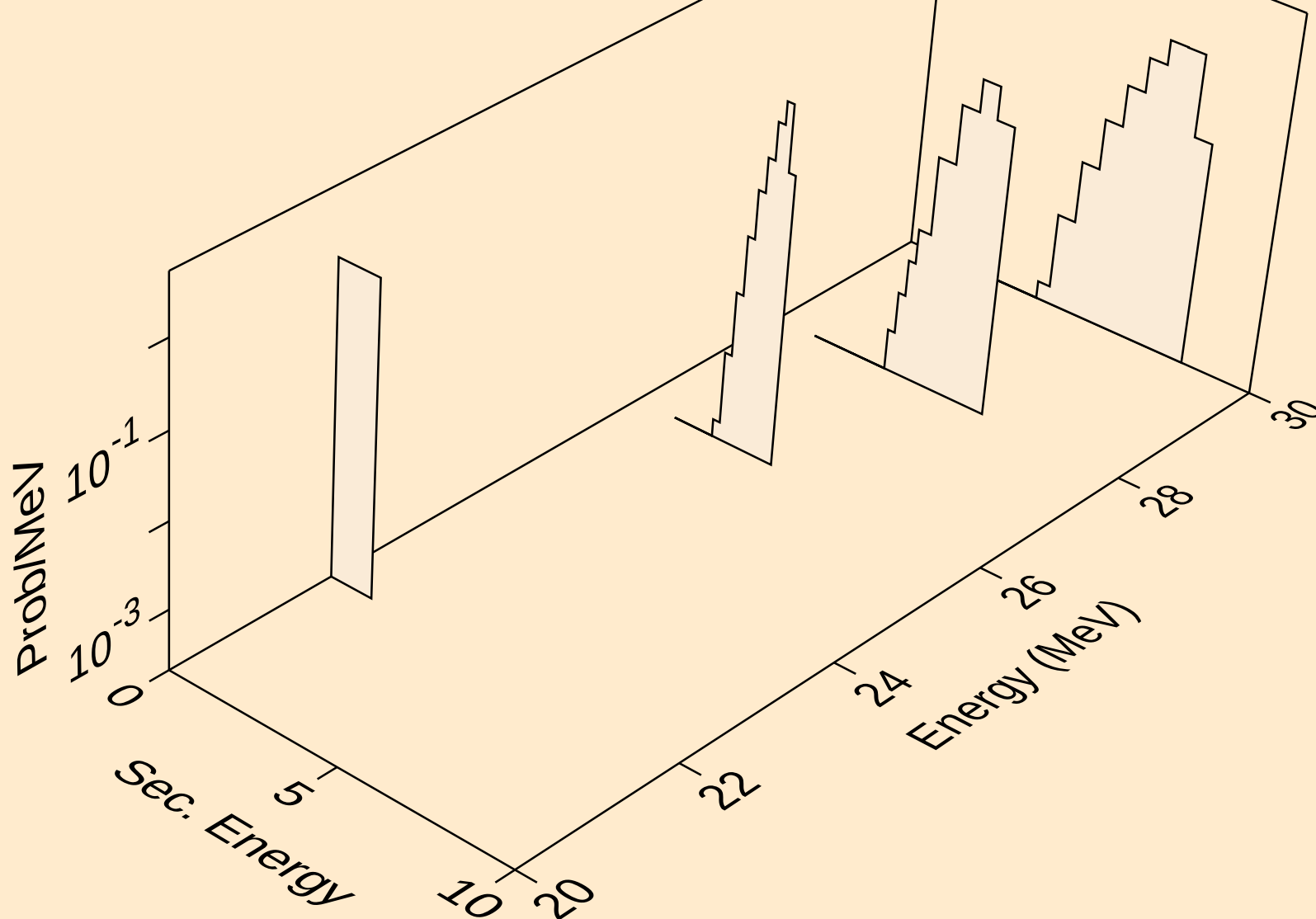
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (a,da)



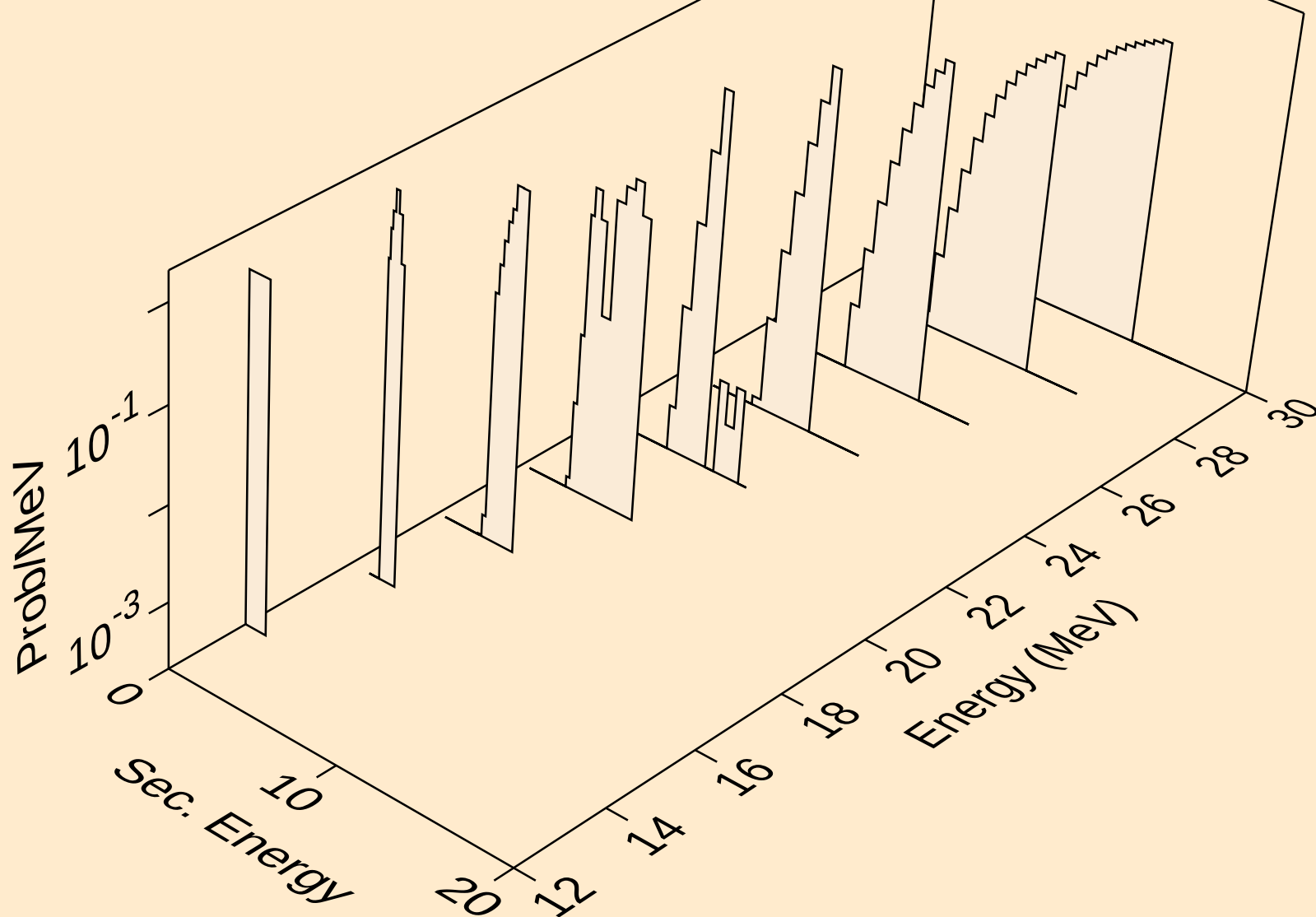
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (a,x)



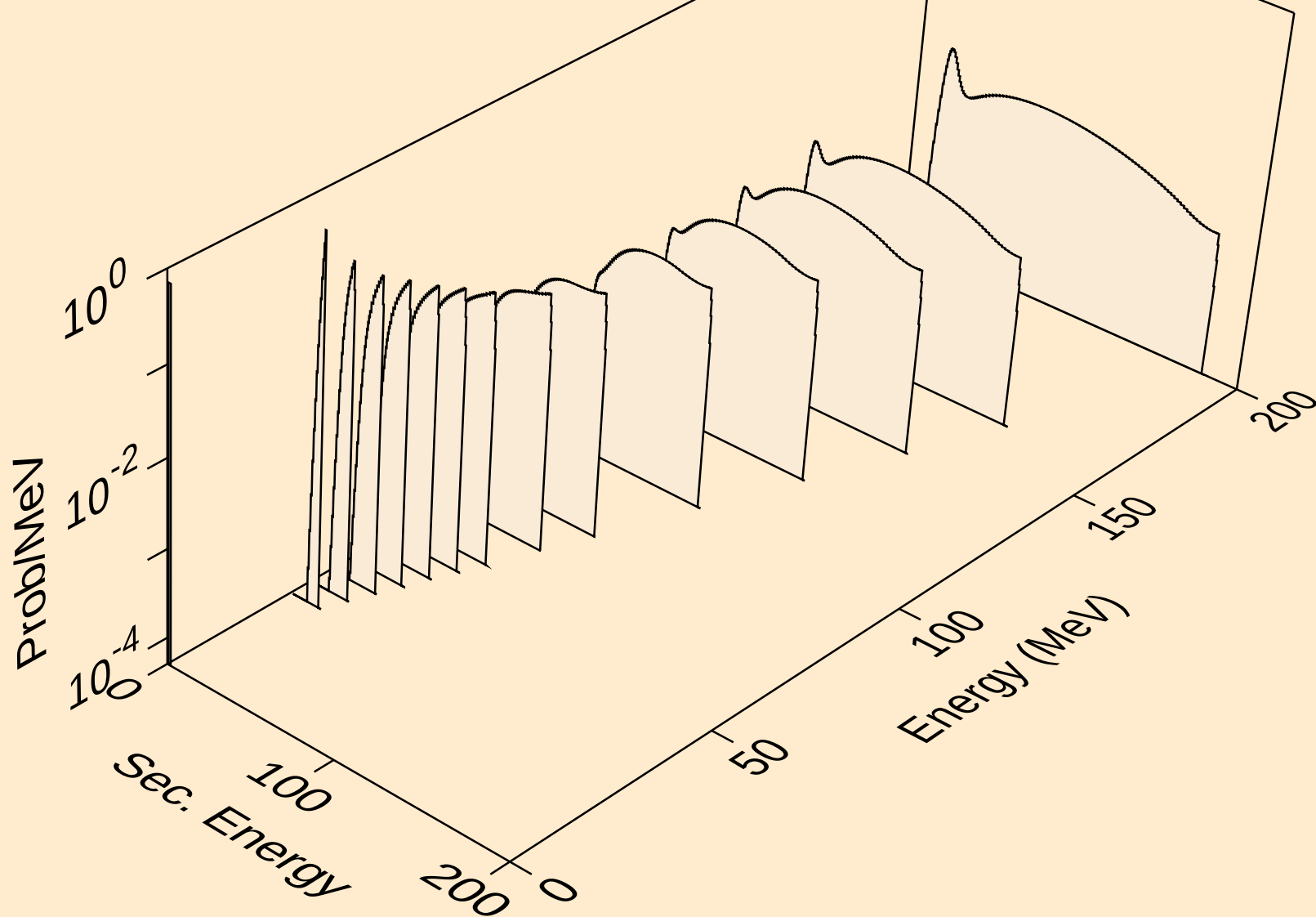
PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (a,n\*)t



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (a,t)



PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (a,x)





PR138M ALPHA ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (a,he3)

