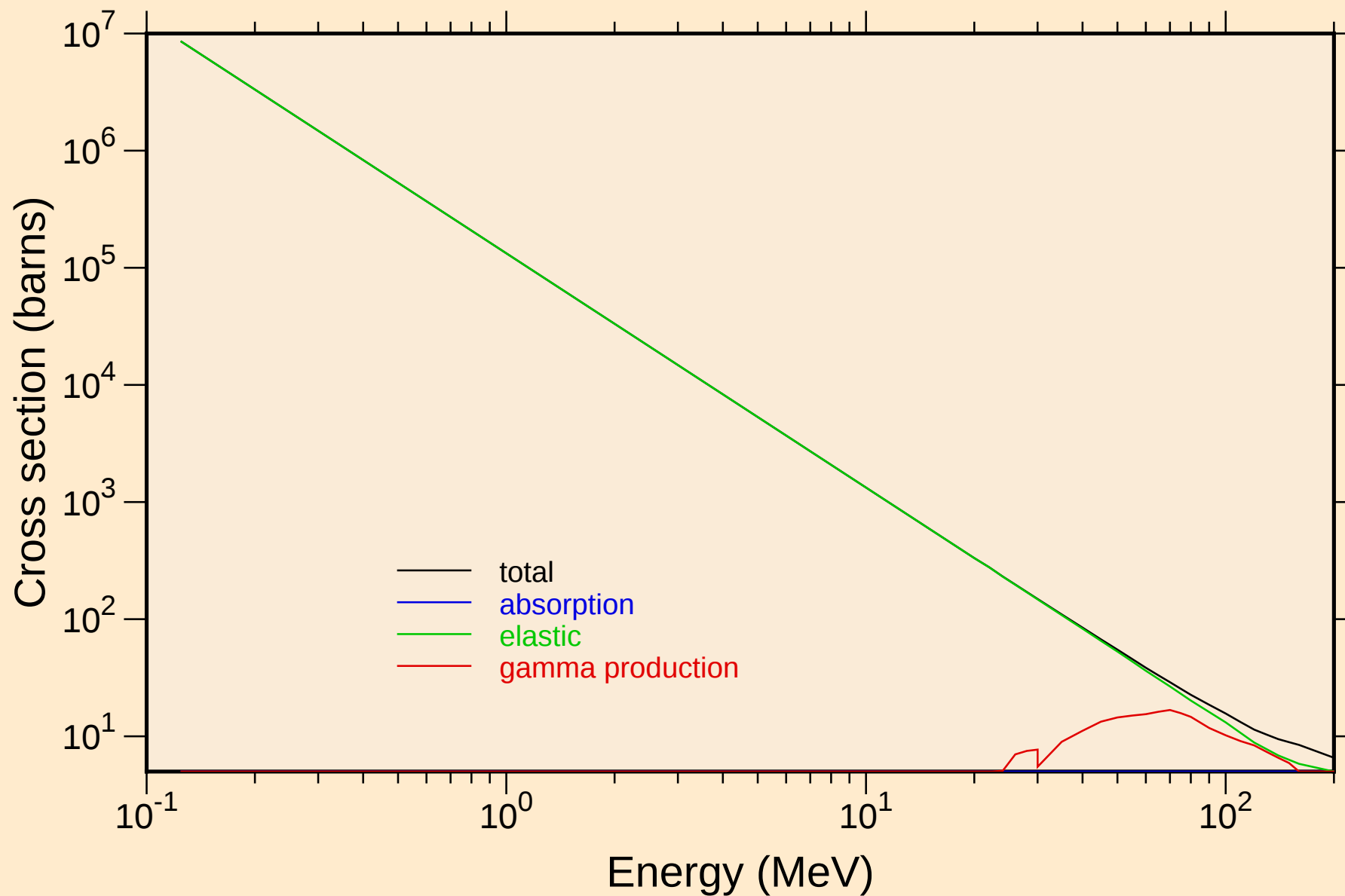


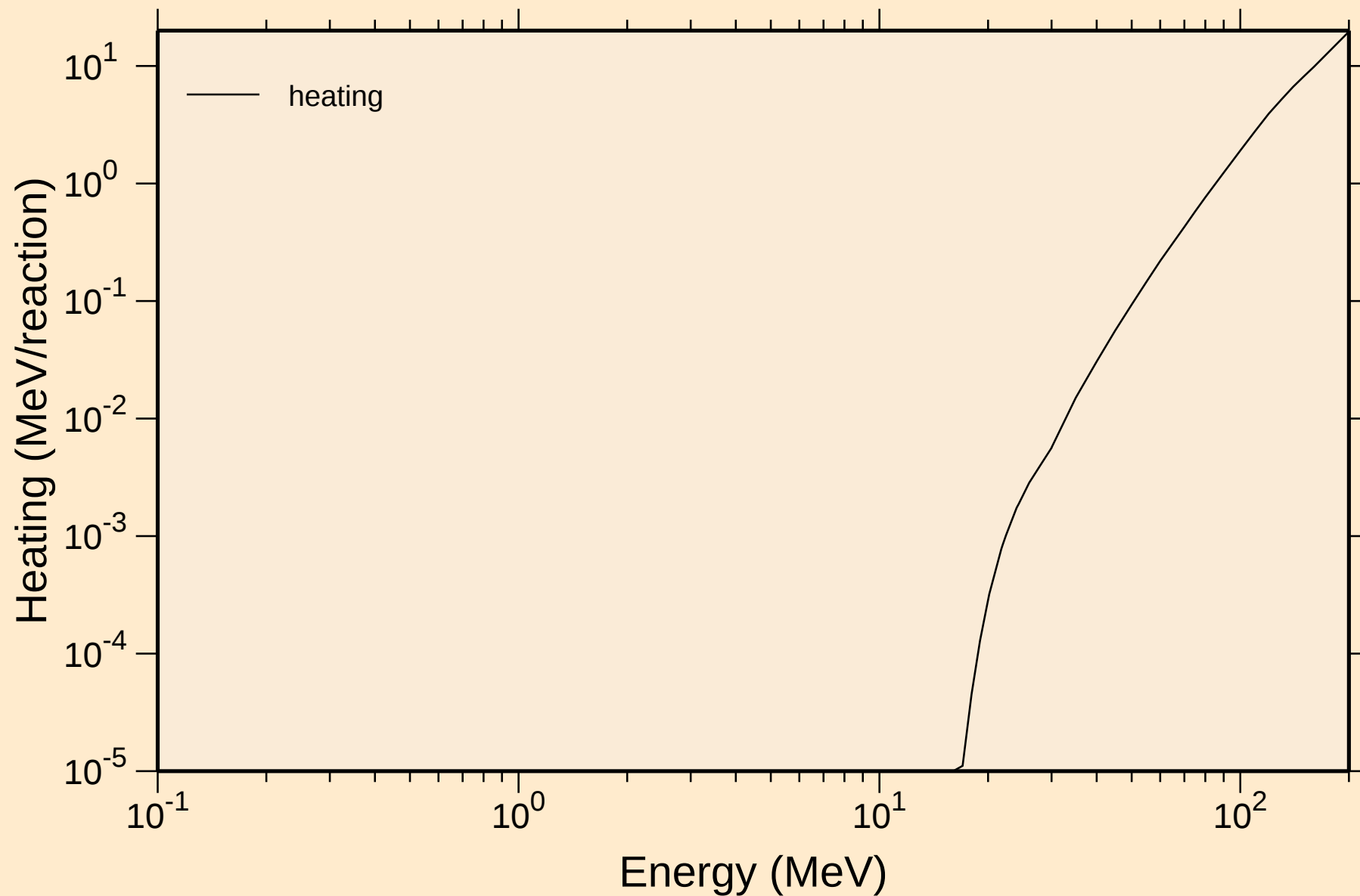
# HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



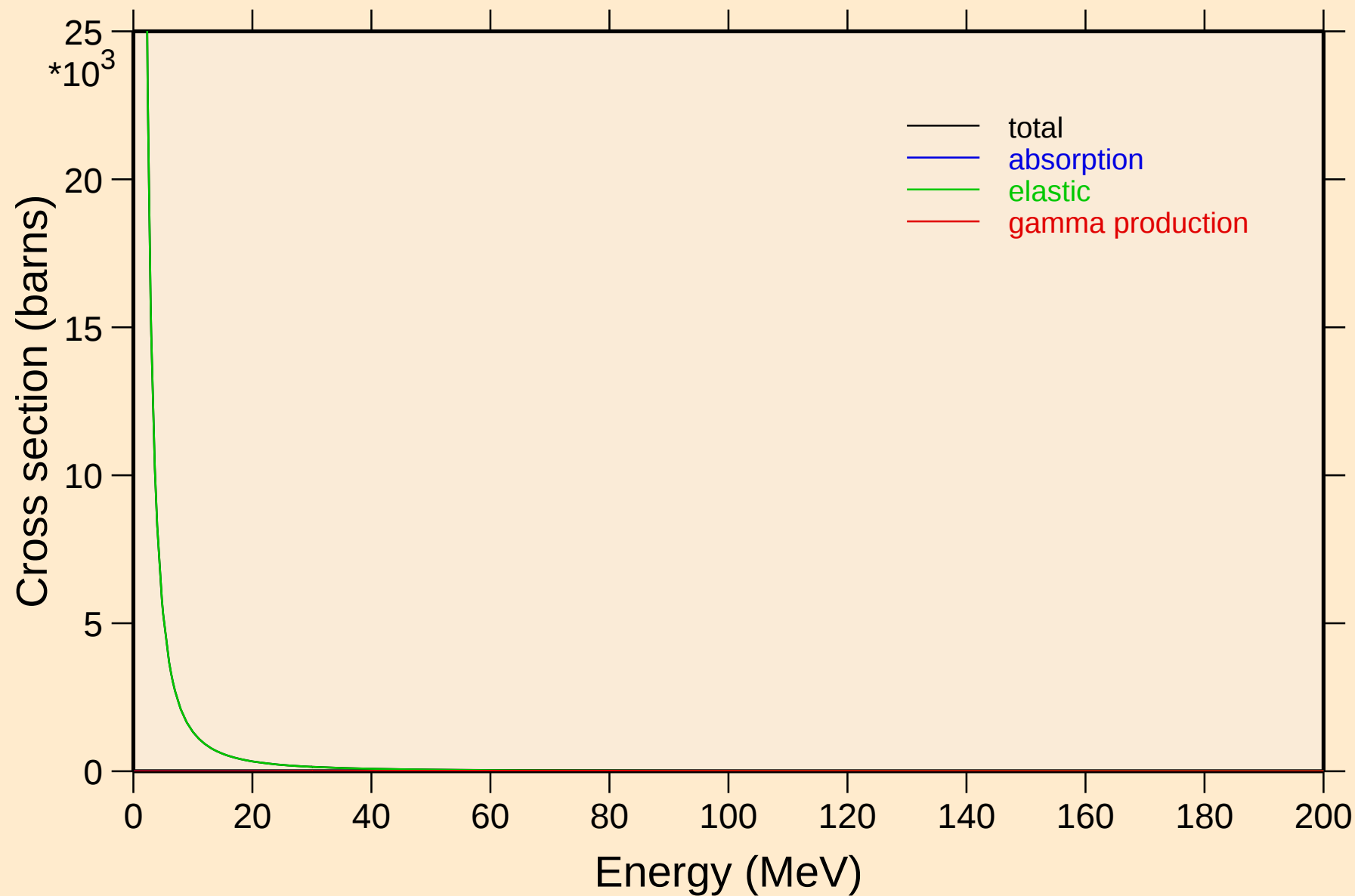
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Heating



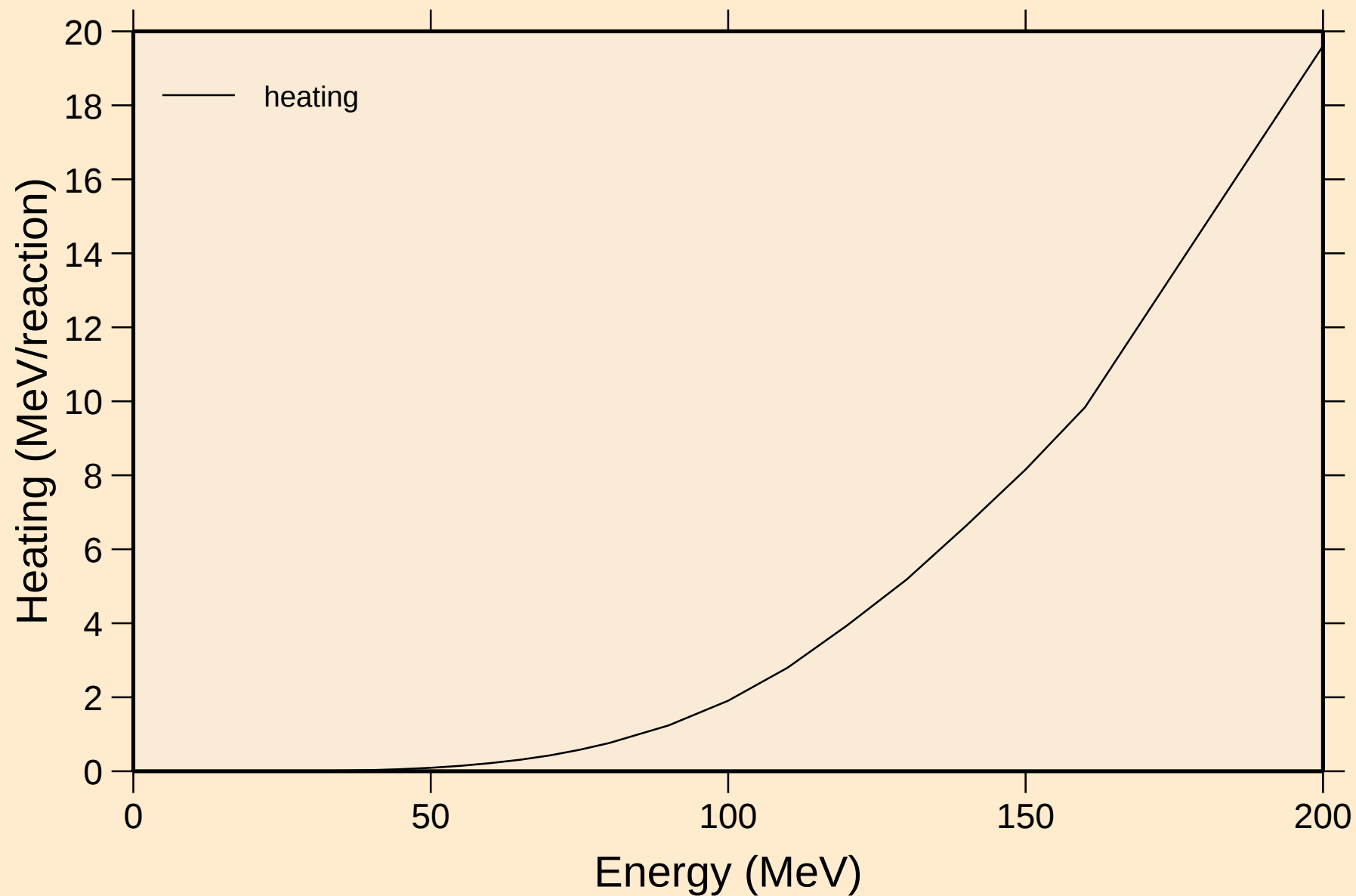
# HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



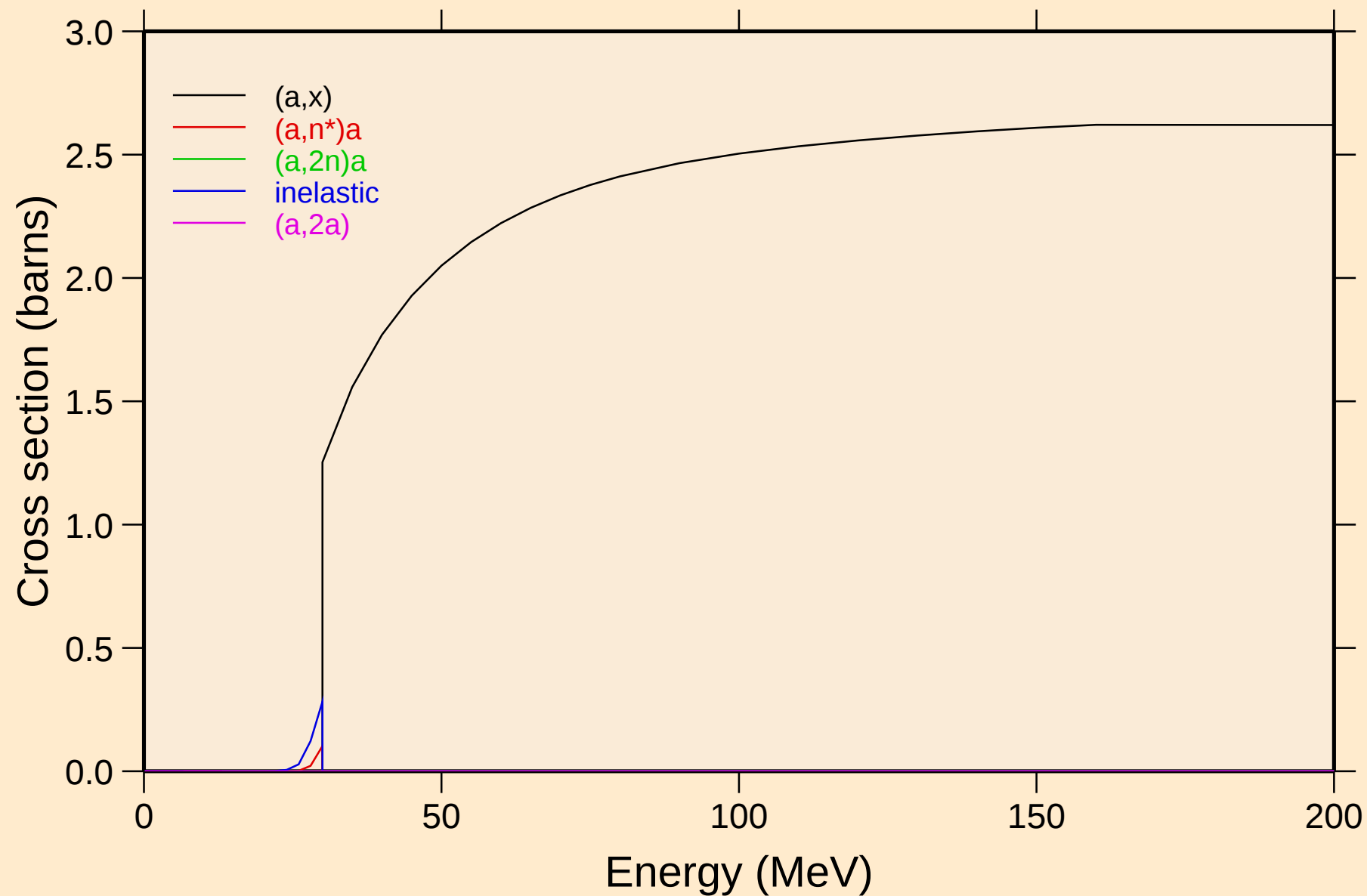
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Heating

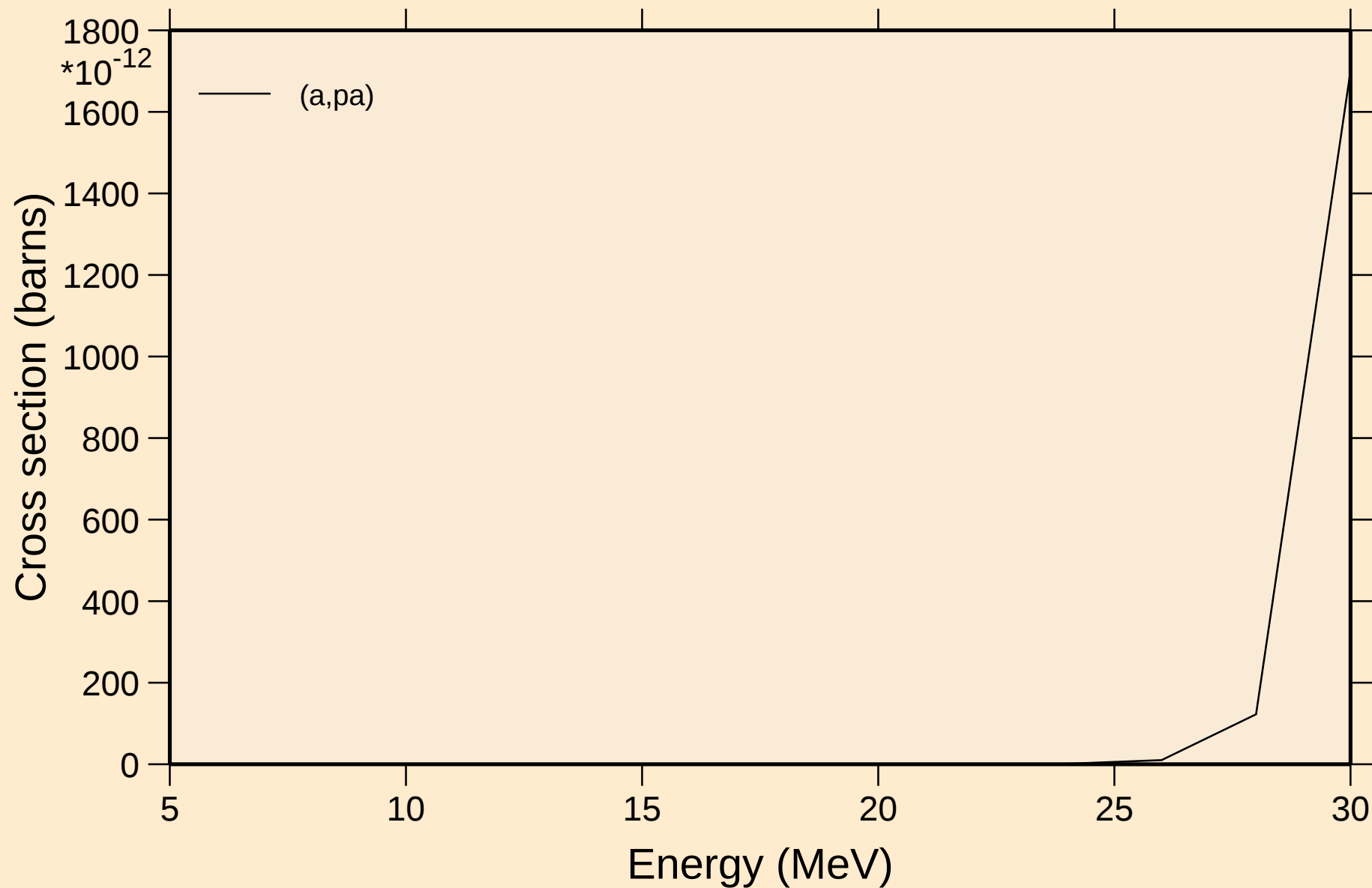


# HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

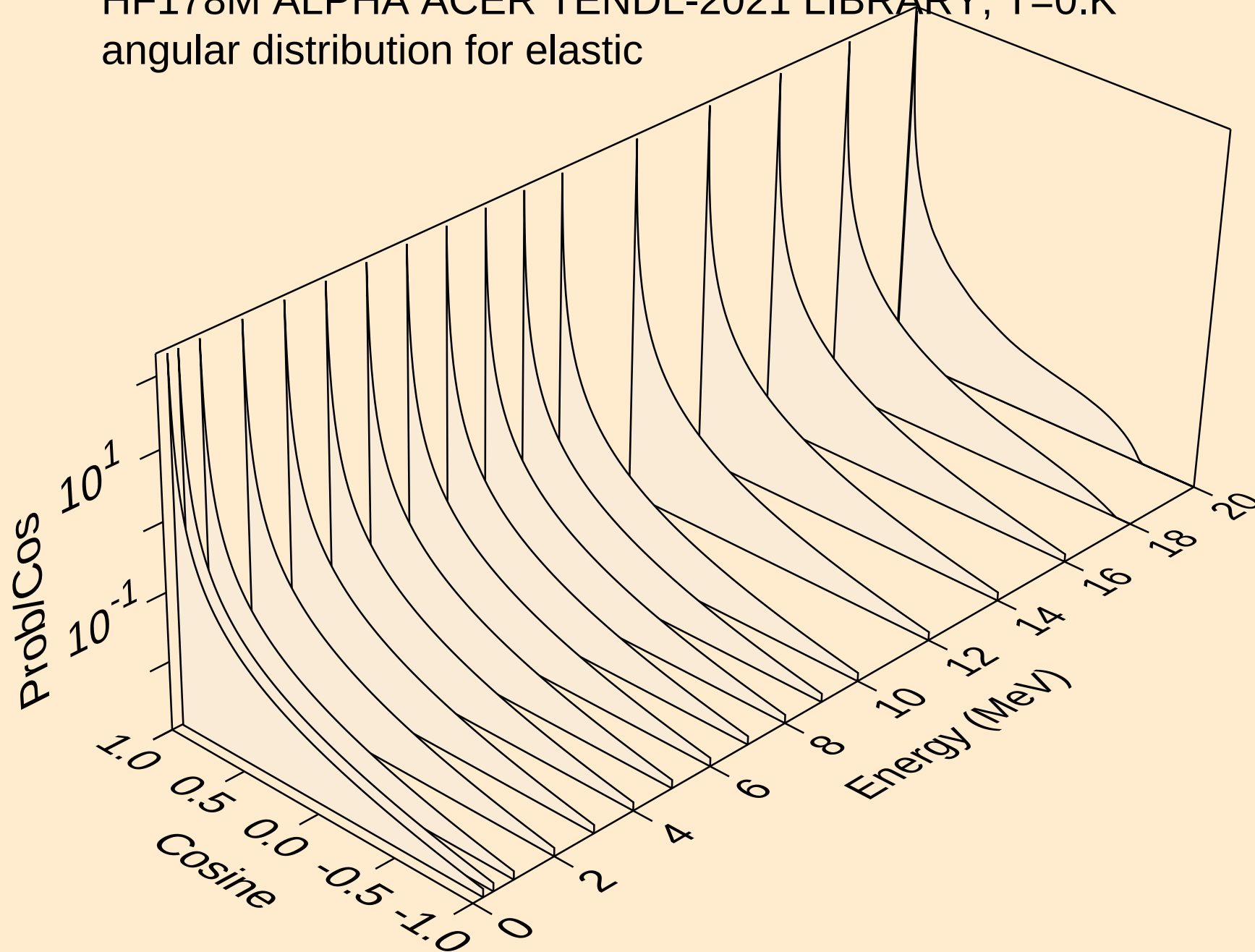
Threshold reactions



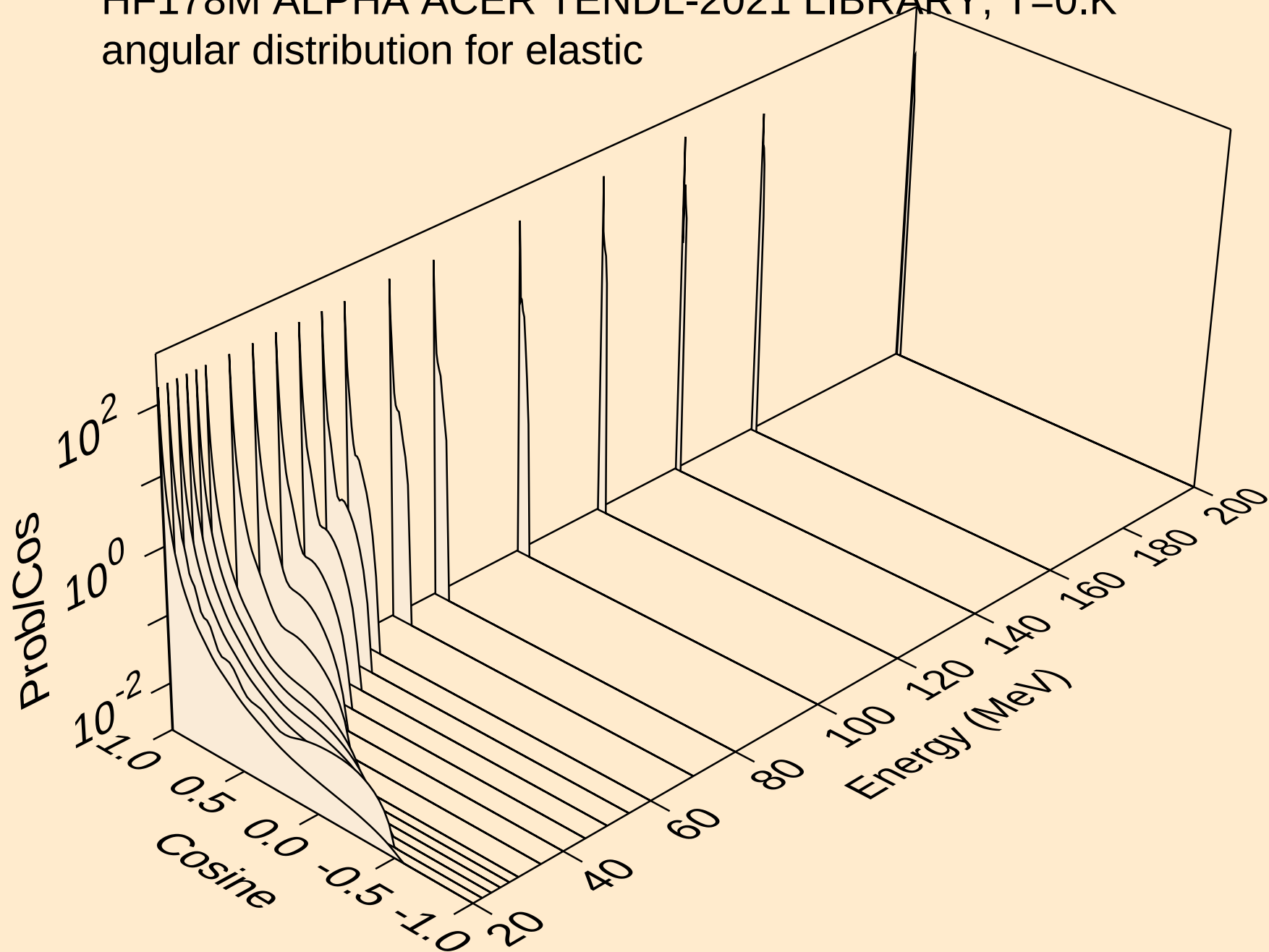
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic

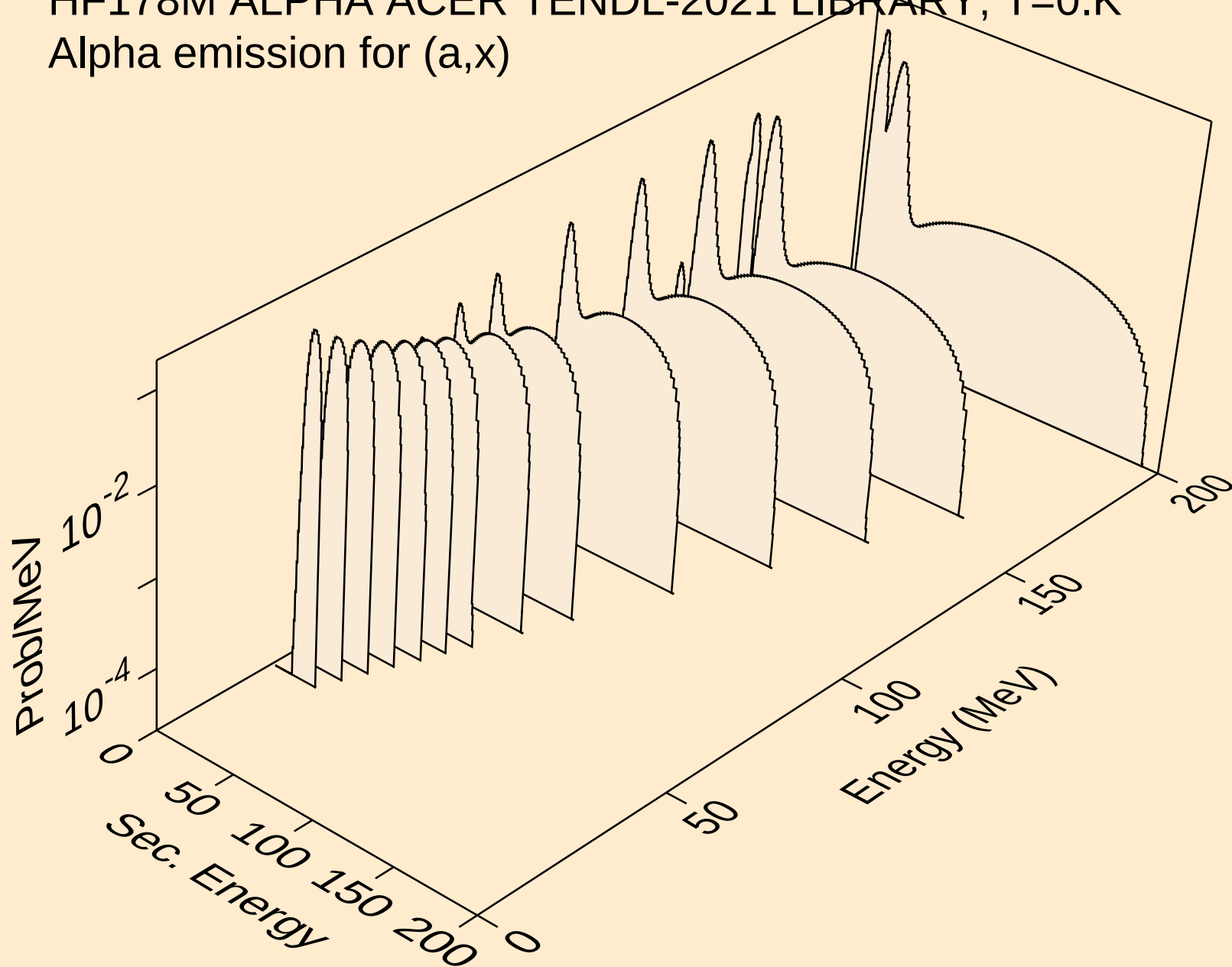


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic

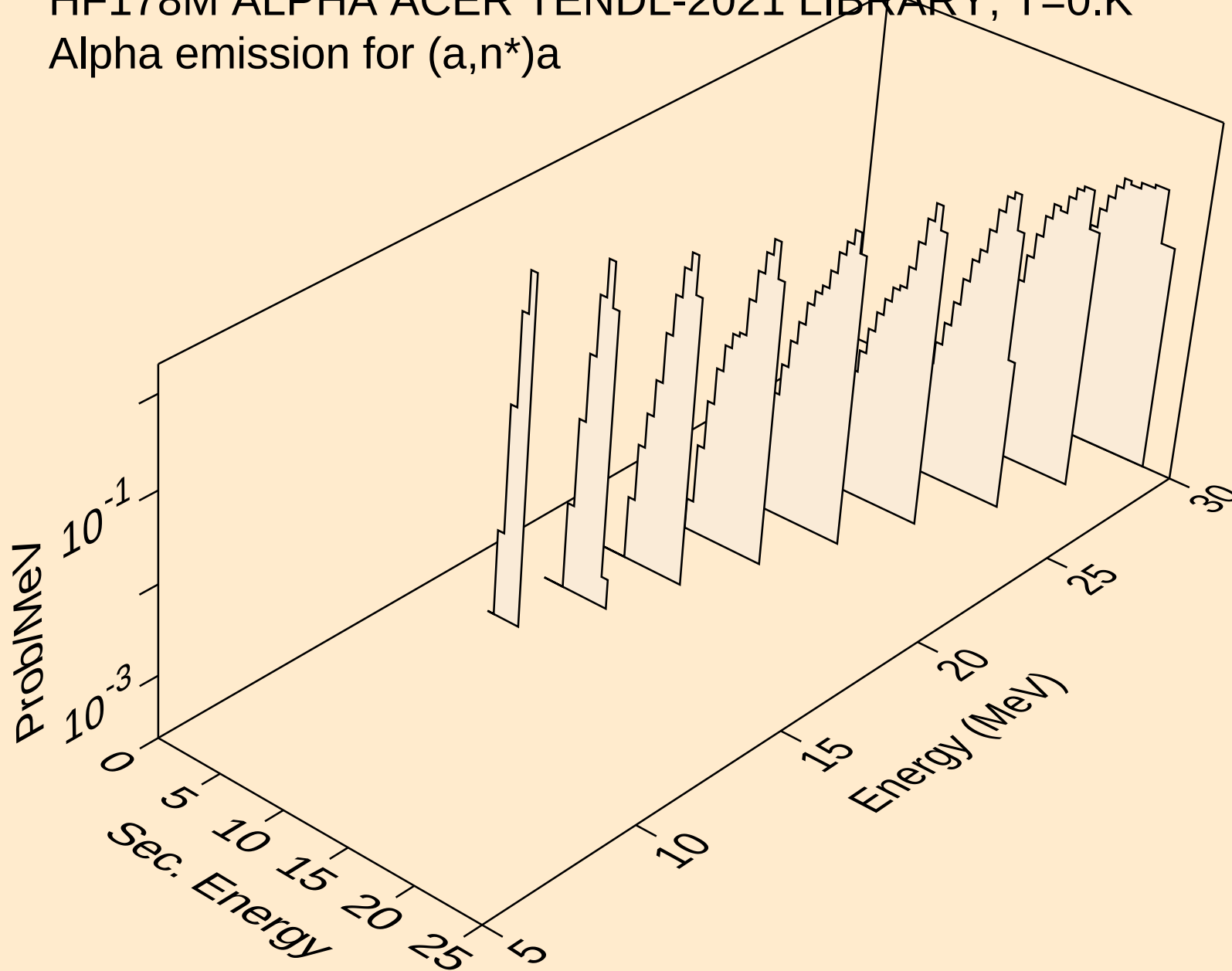


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Alpha emission for (a,x)

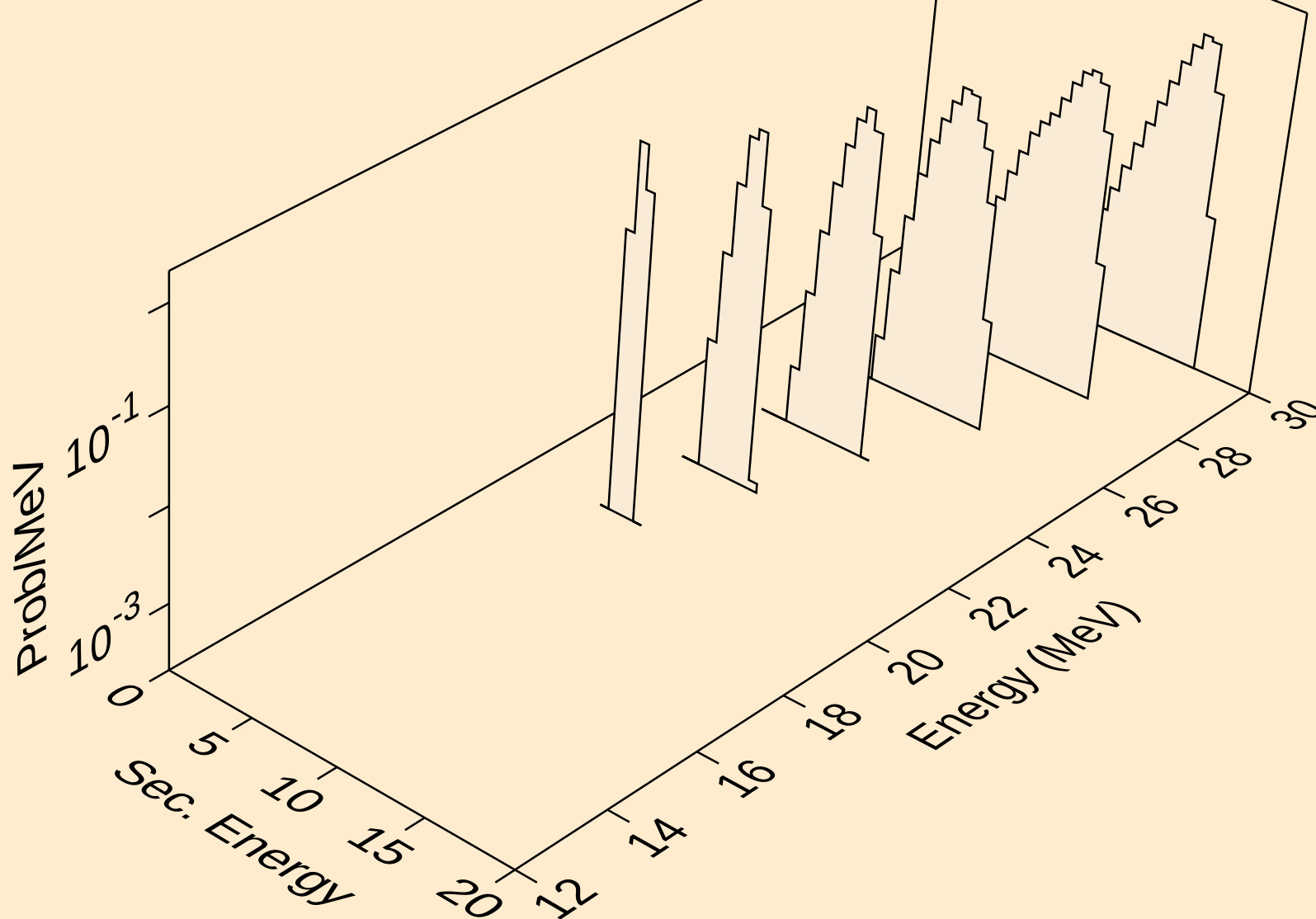


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a

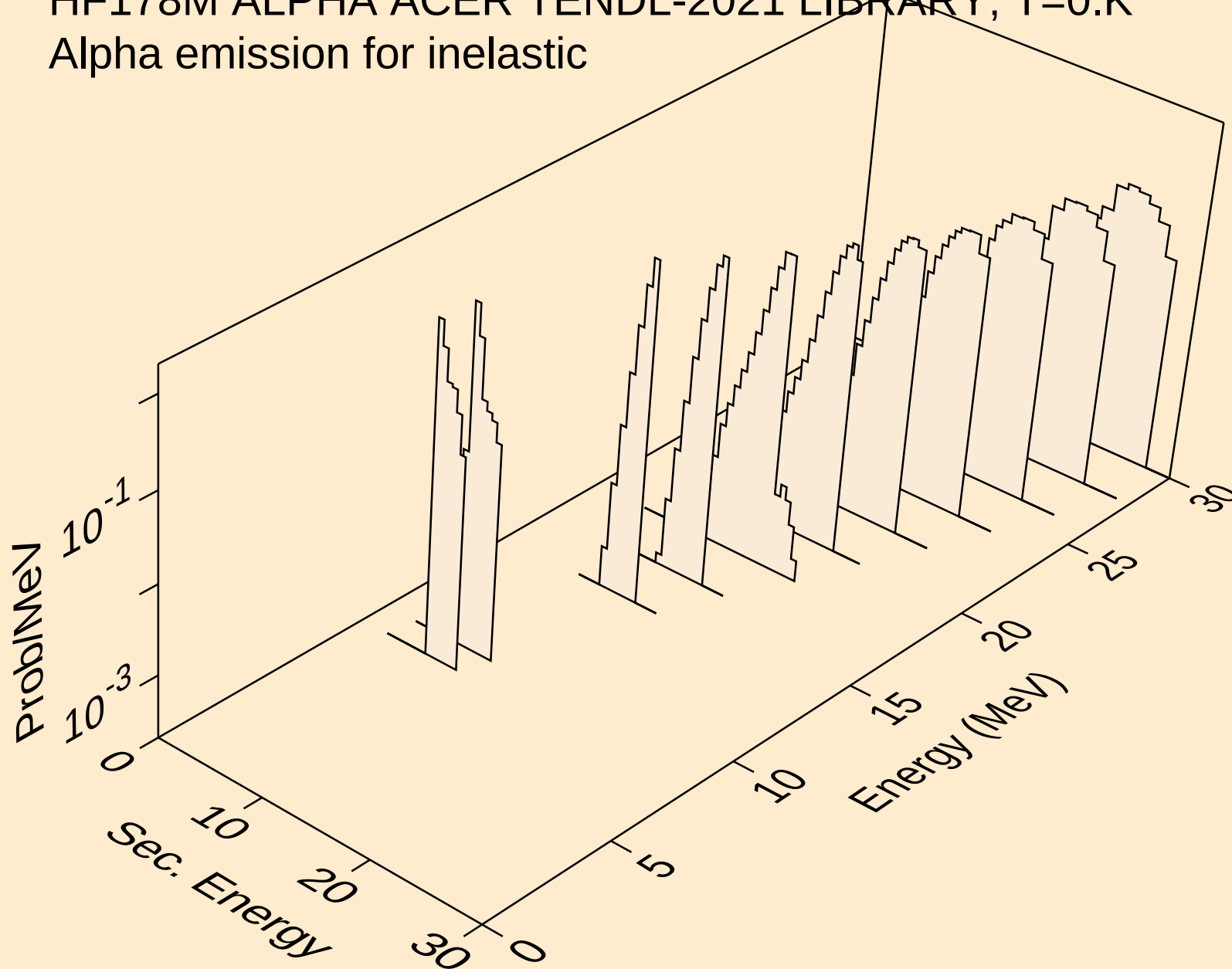


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Alpha emission for (a,2n)a

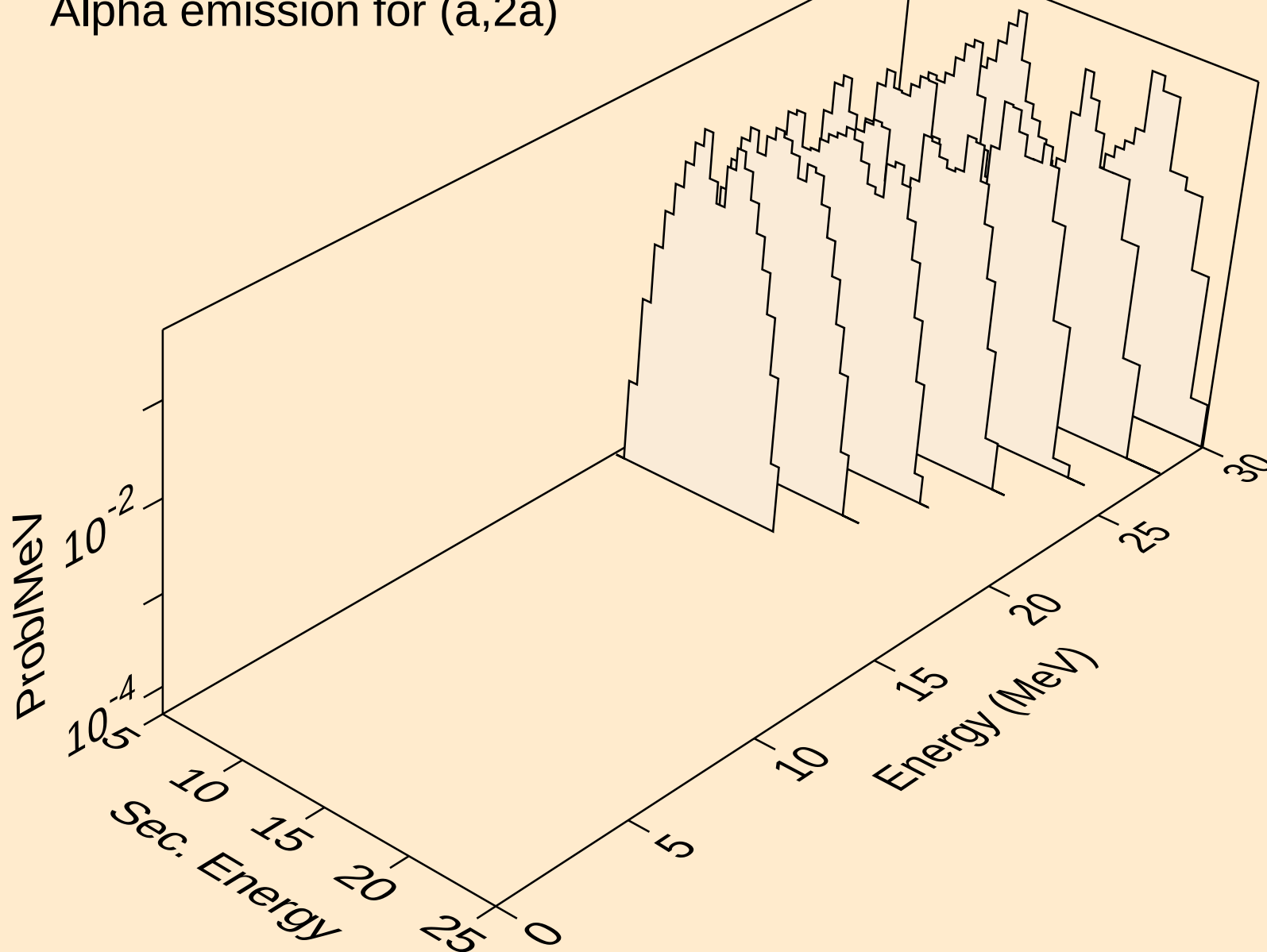


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for inelastic

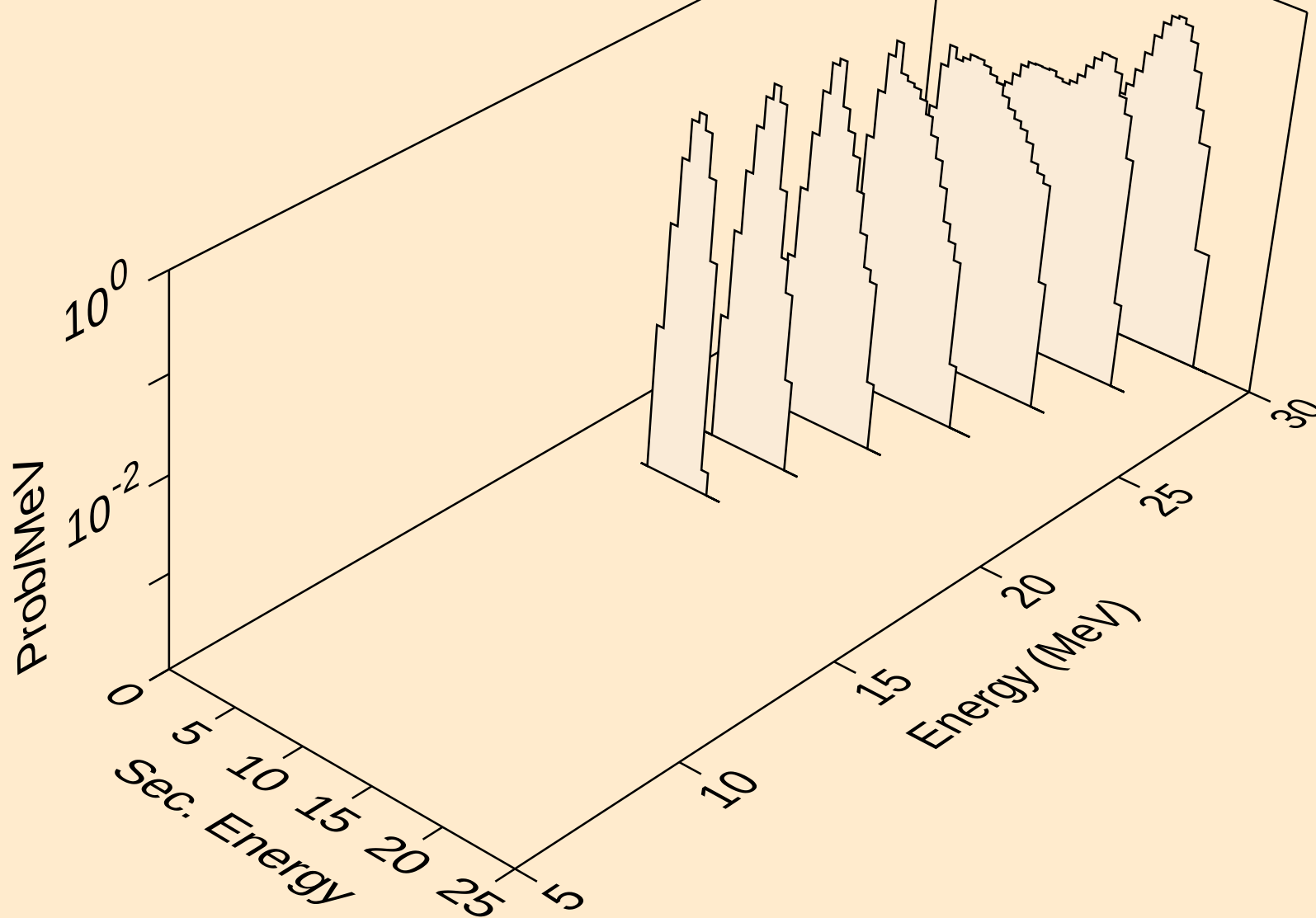


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

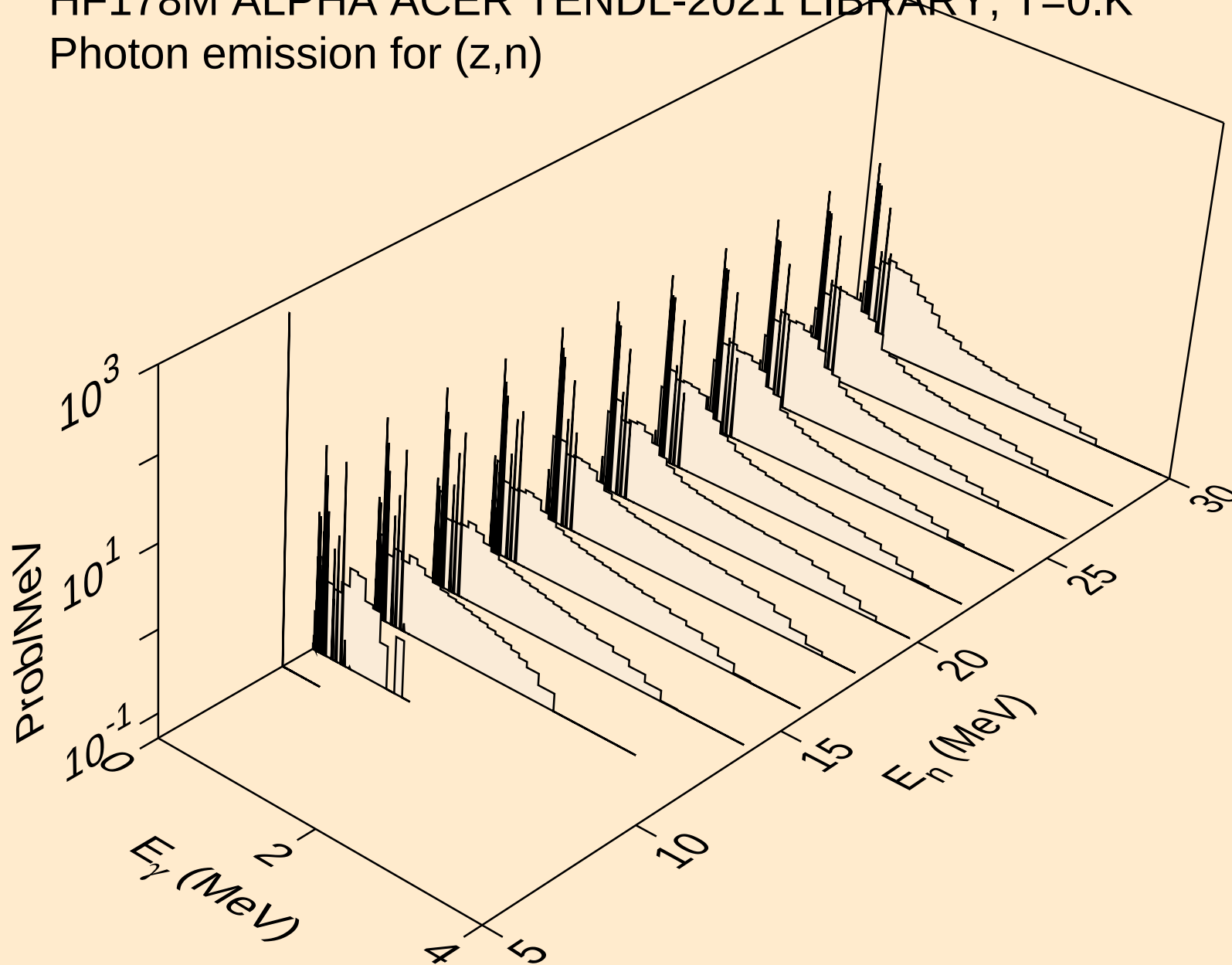
Alpha emission for (a,2a)



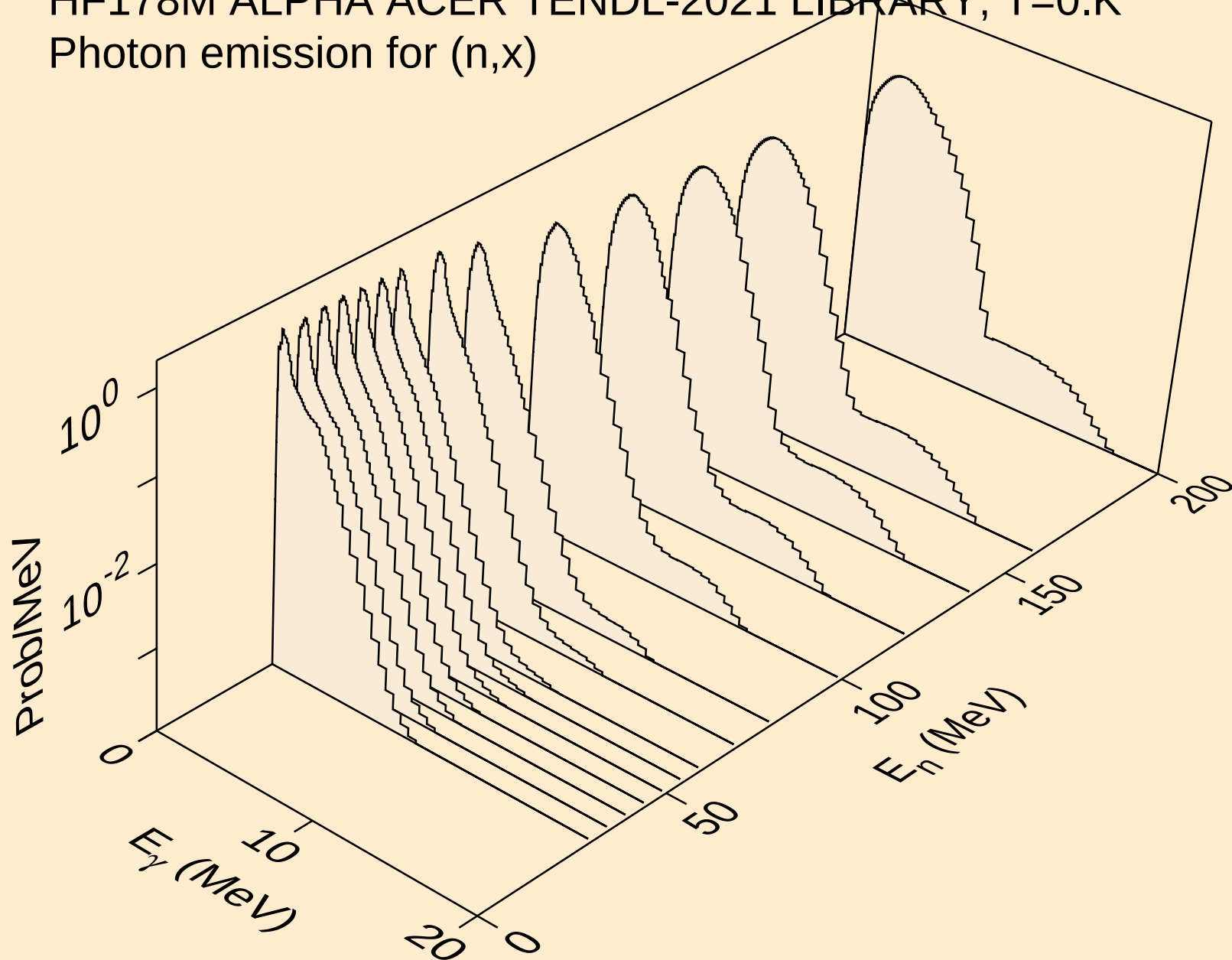
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,pa)



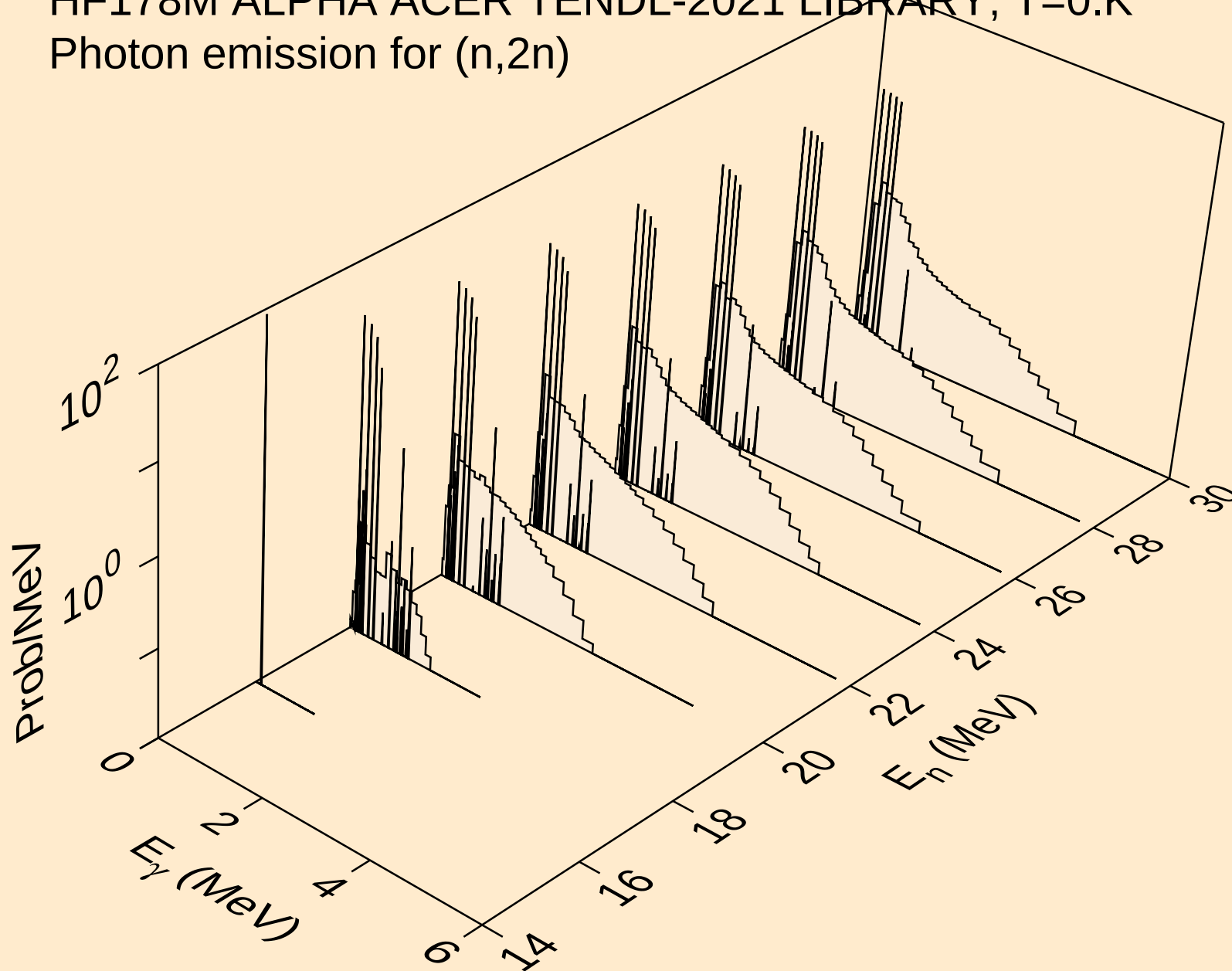
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



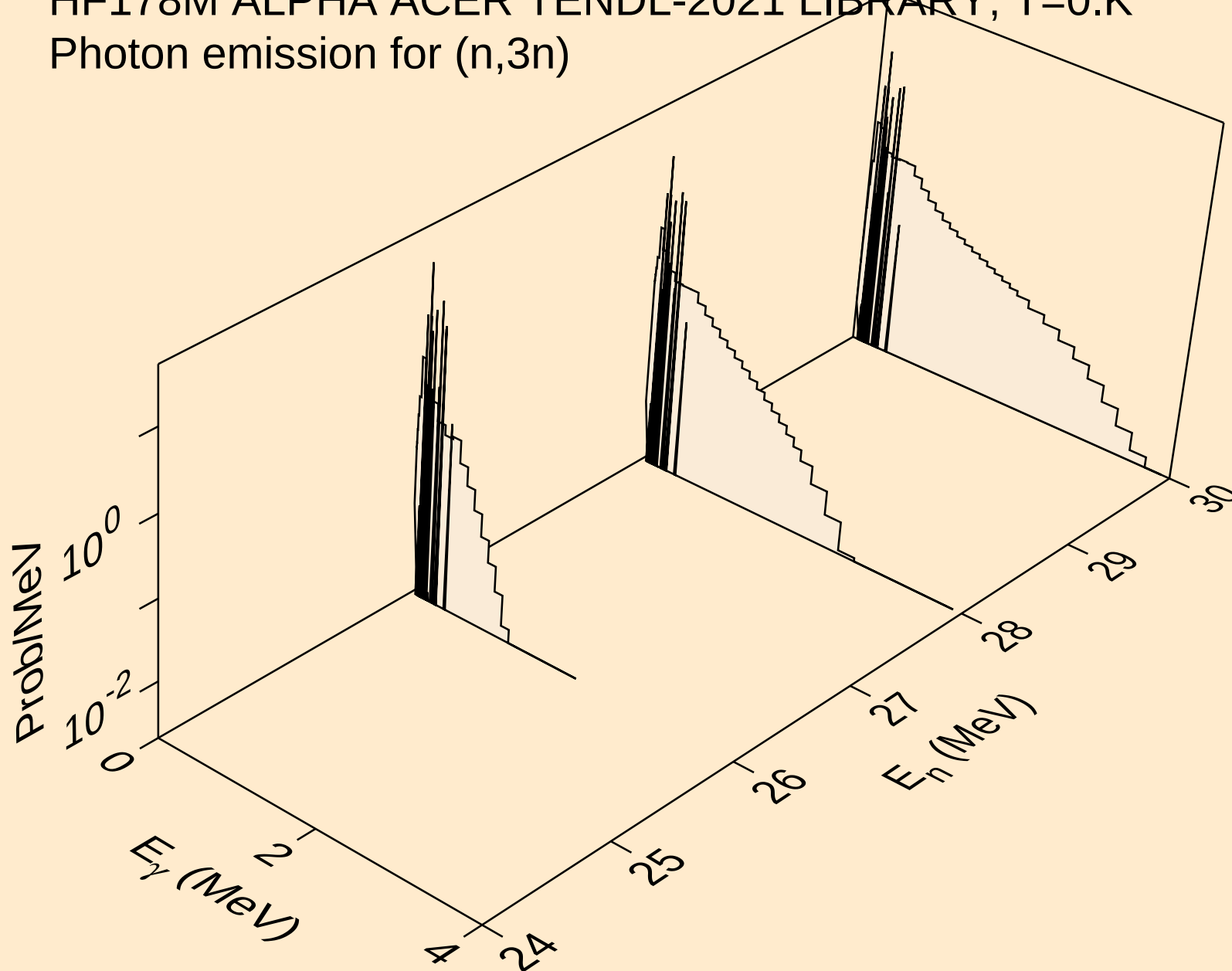
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



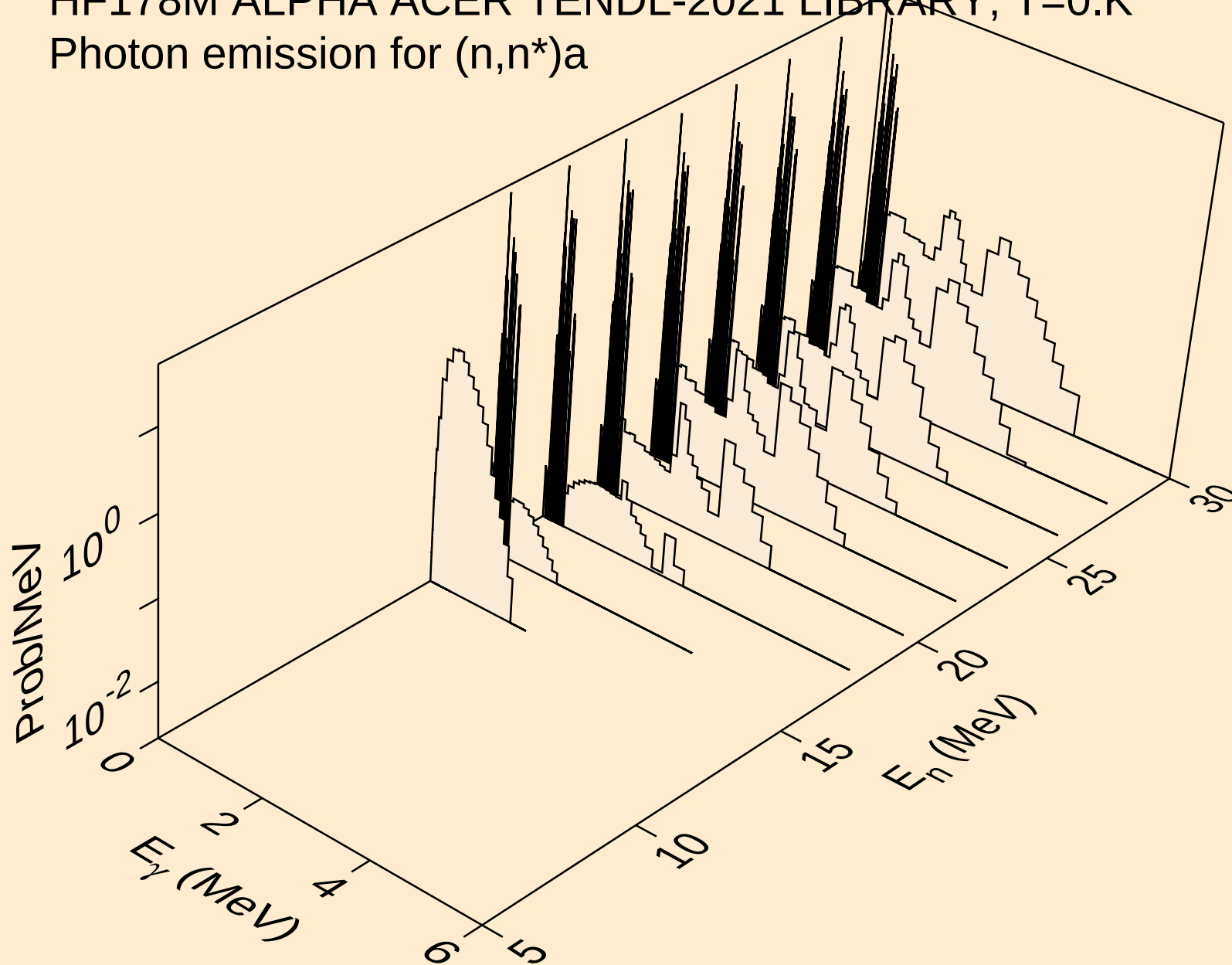
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)

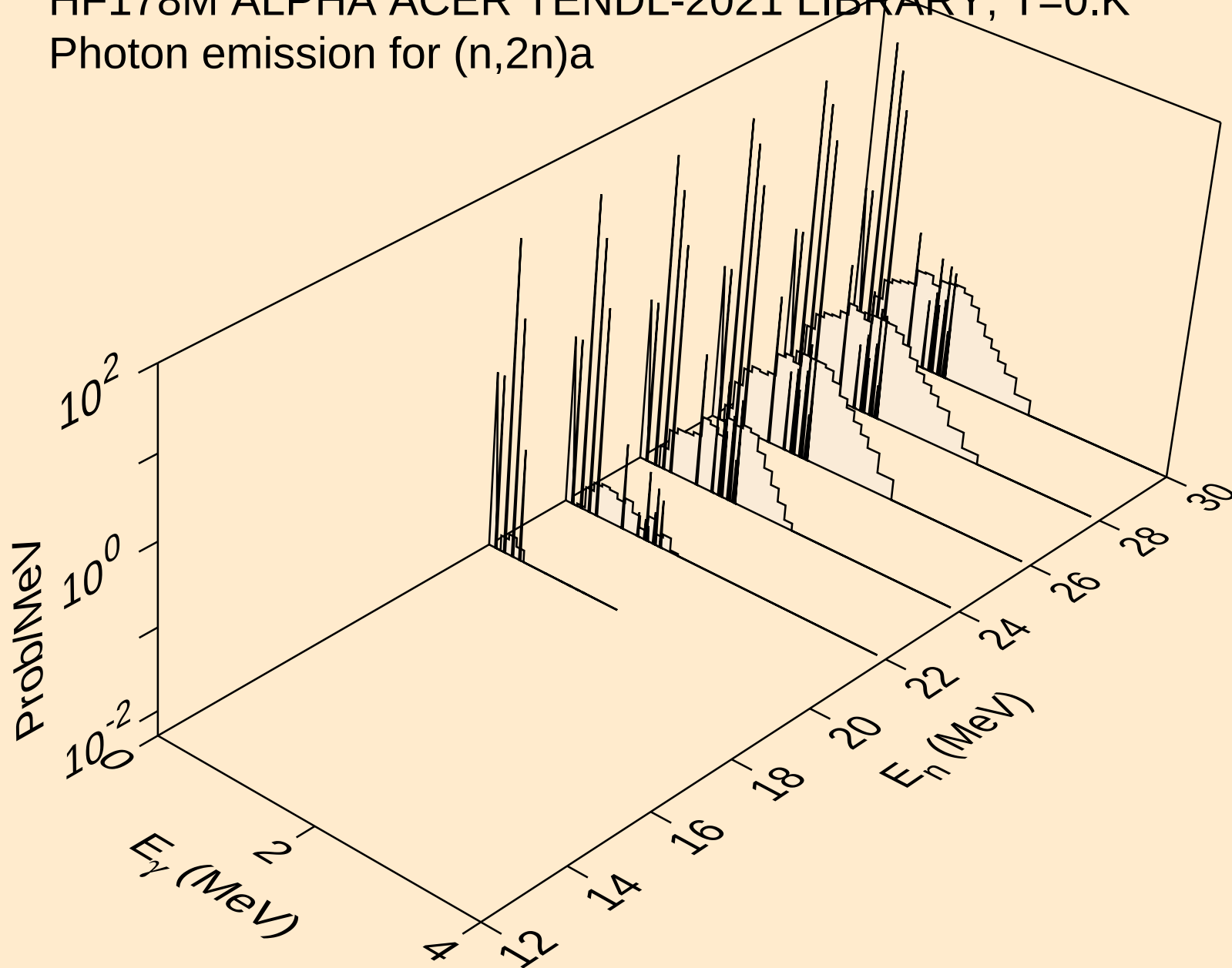


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

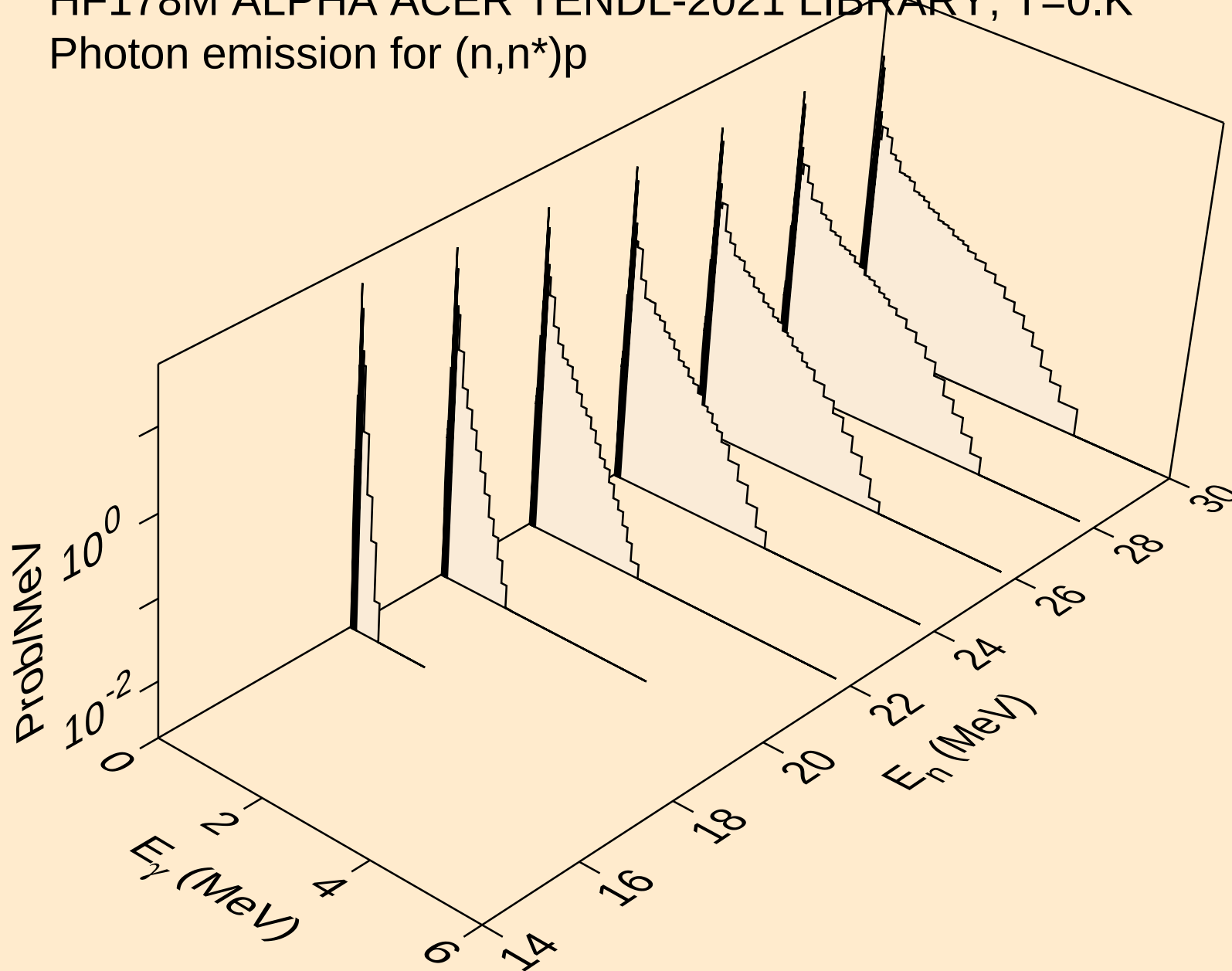


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

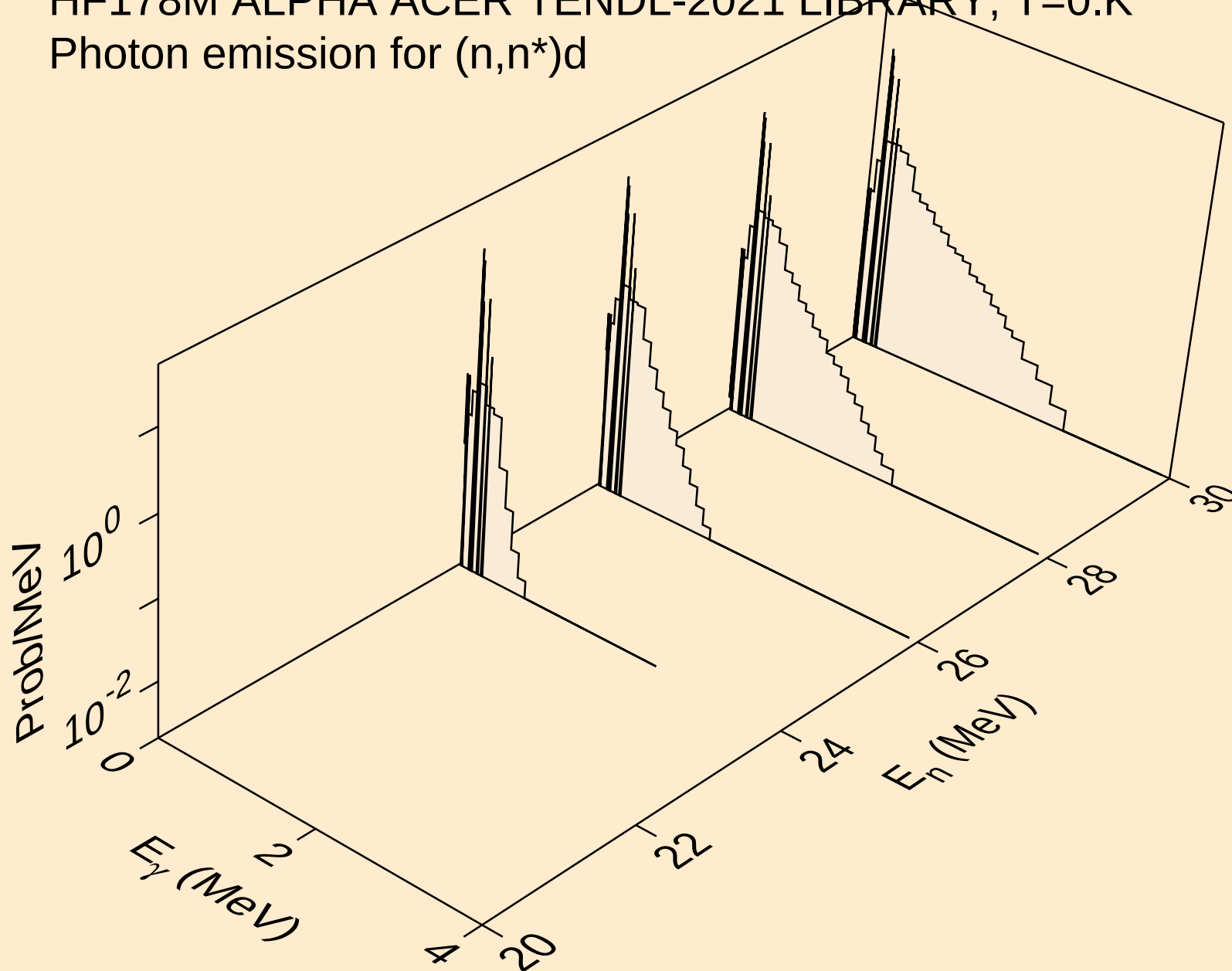
Photon emission for (n,2n) $\alpha$



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

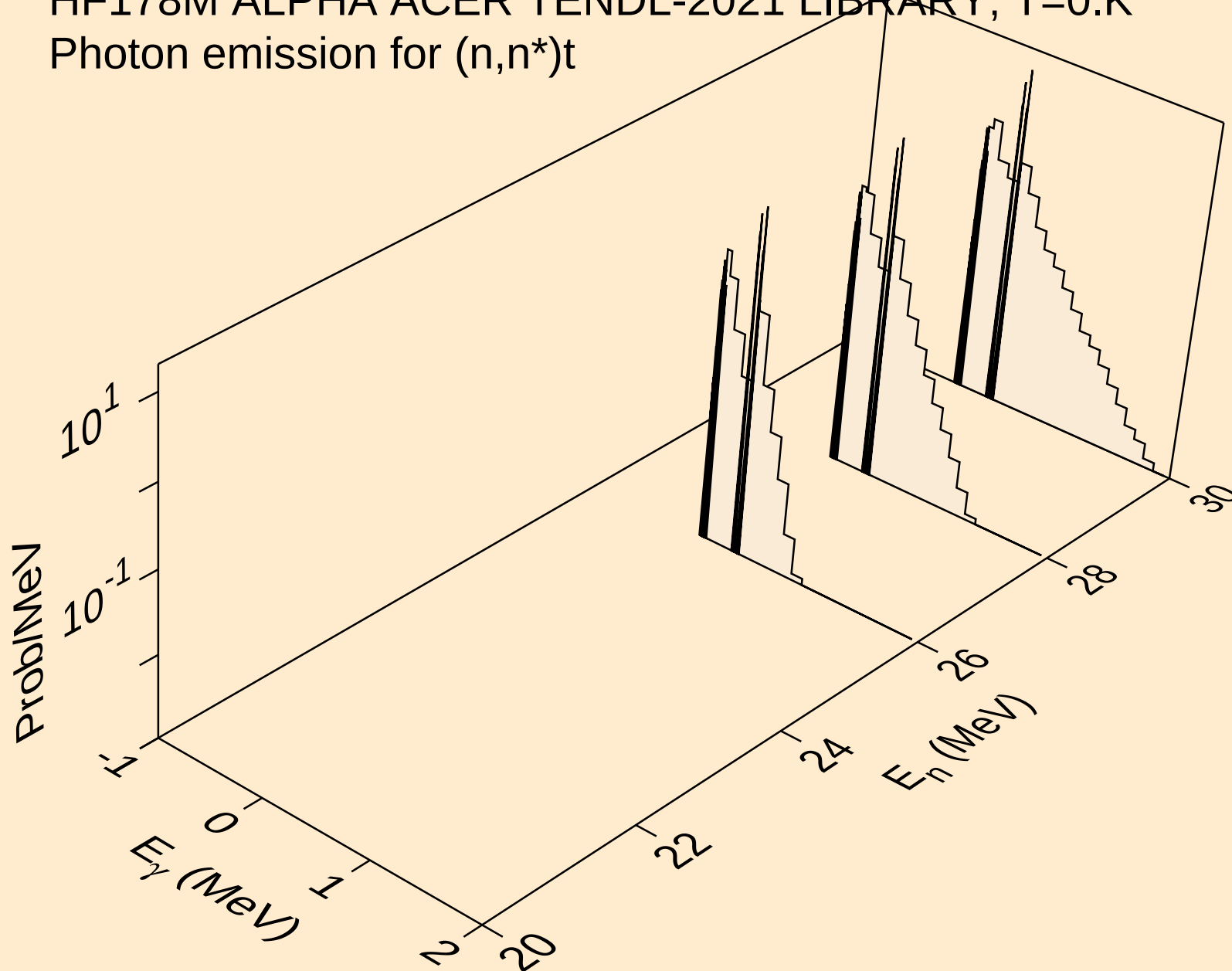


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

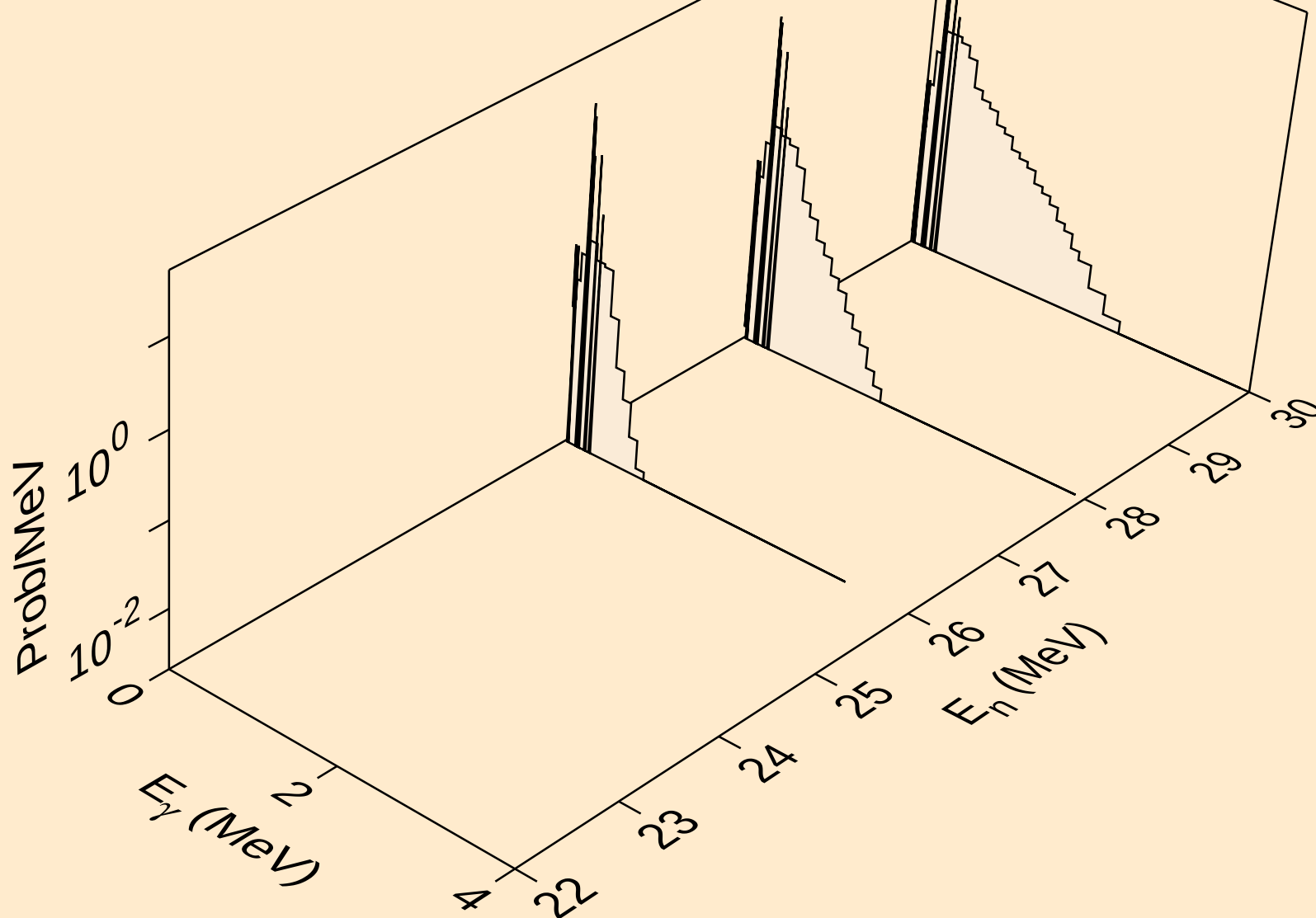


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

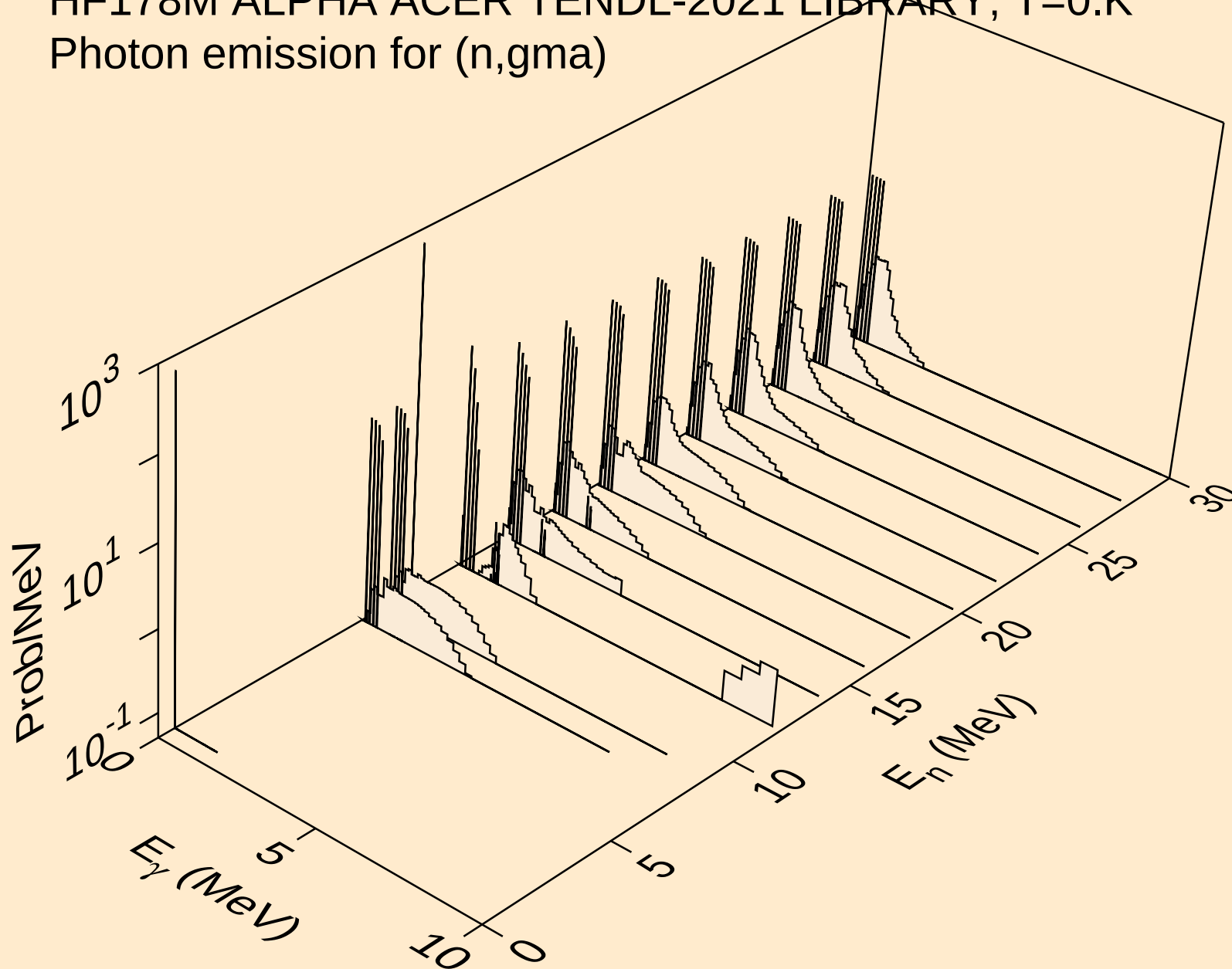
Photon emission for (n,n\*)t



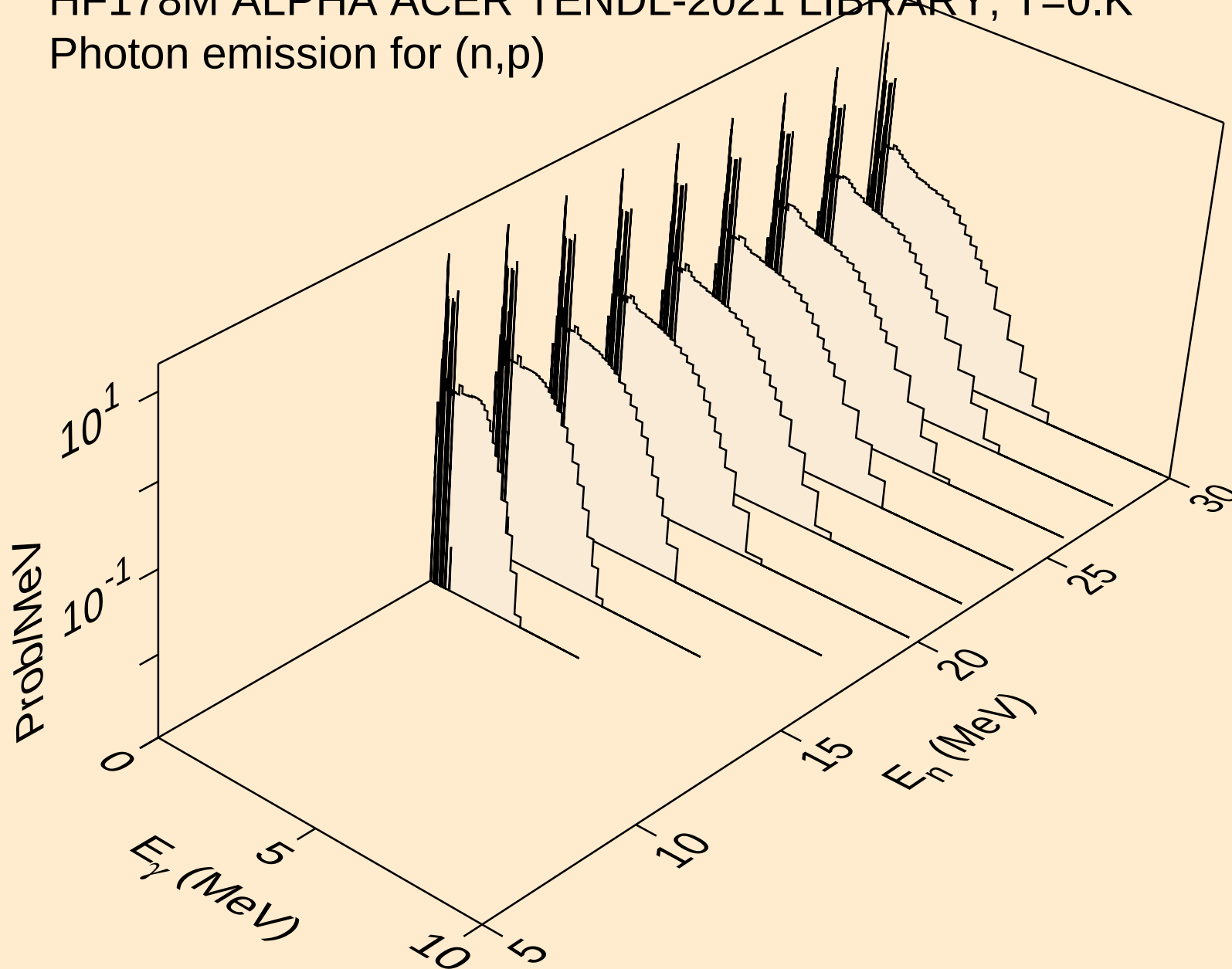
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



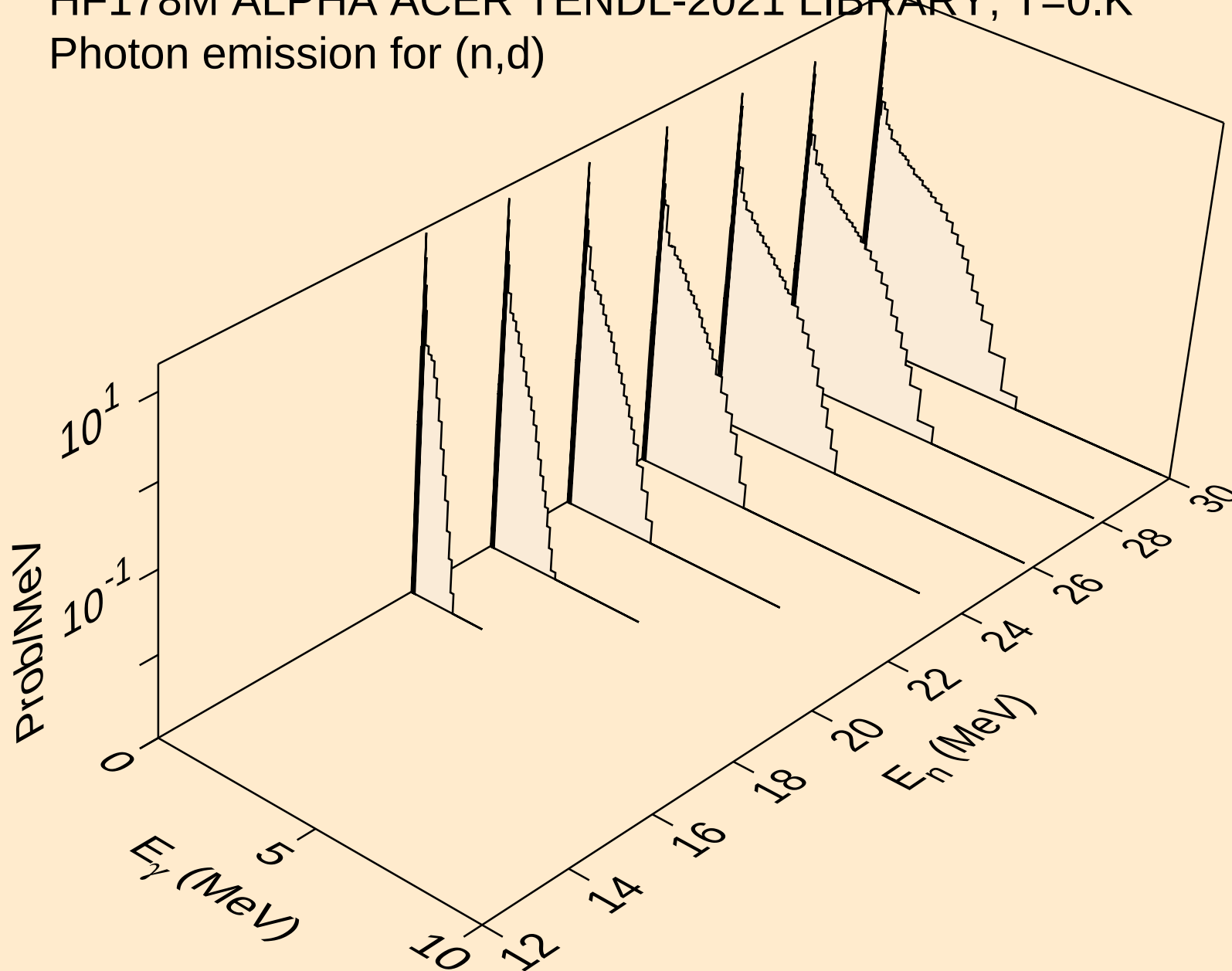
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,gma)



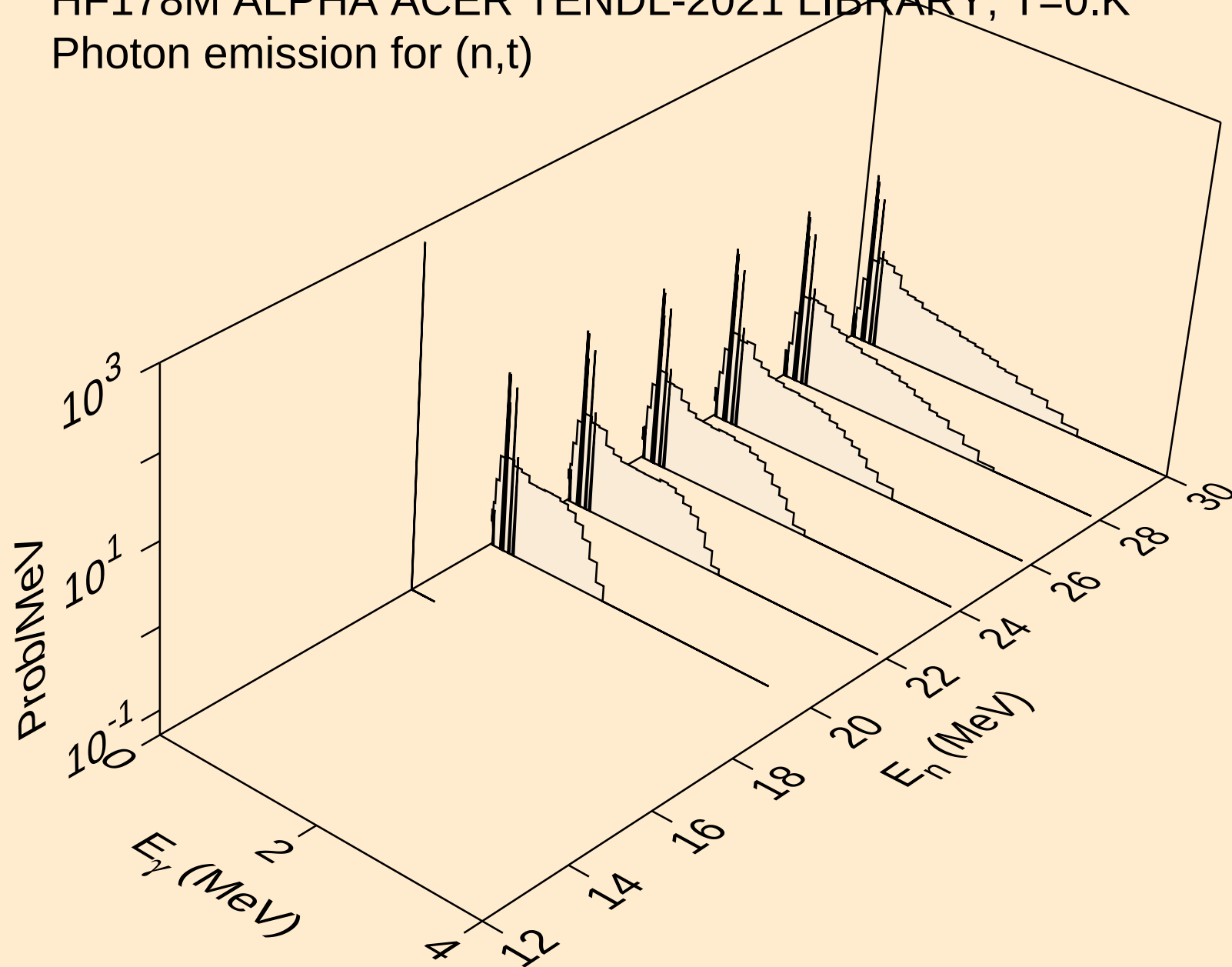
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,p)



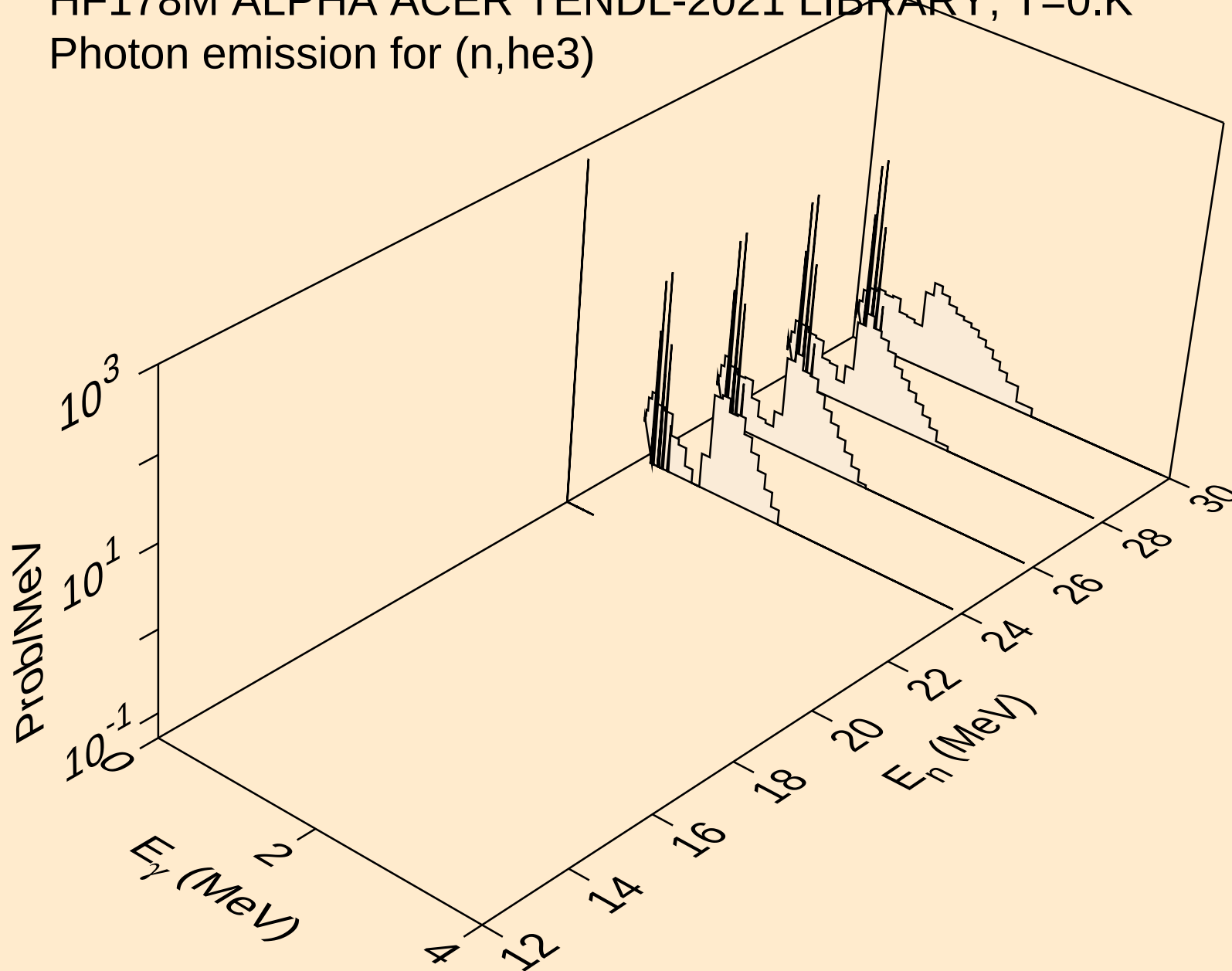
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,d)



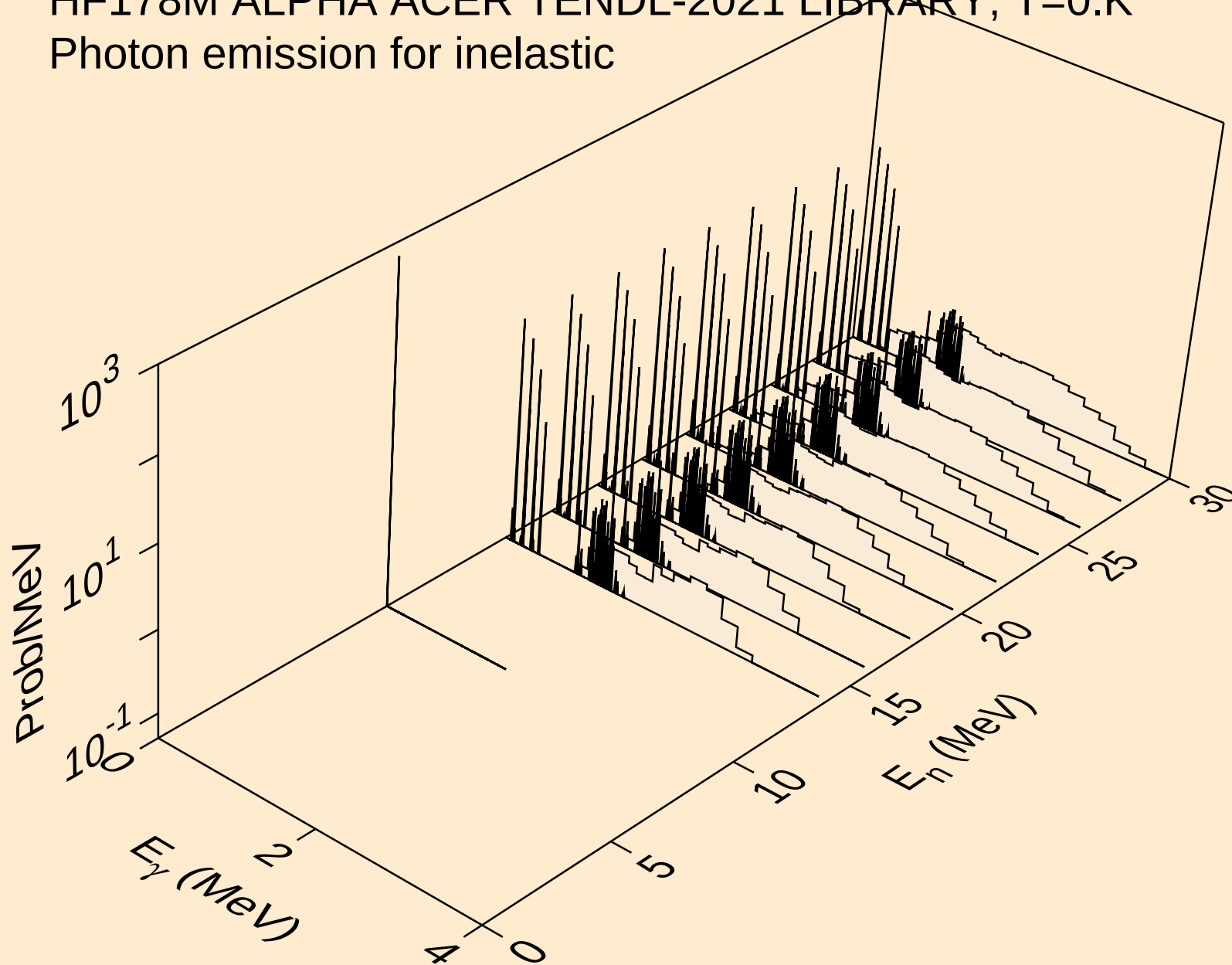
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



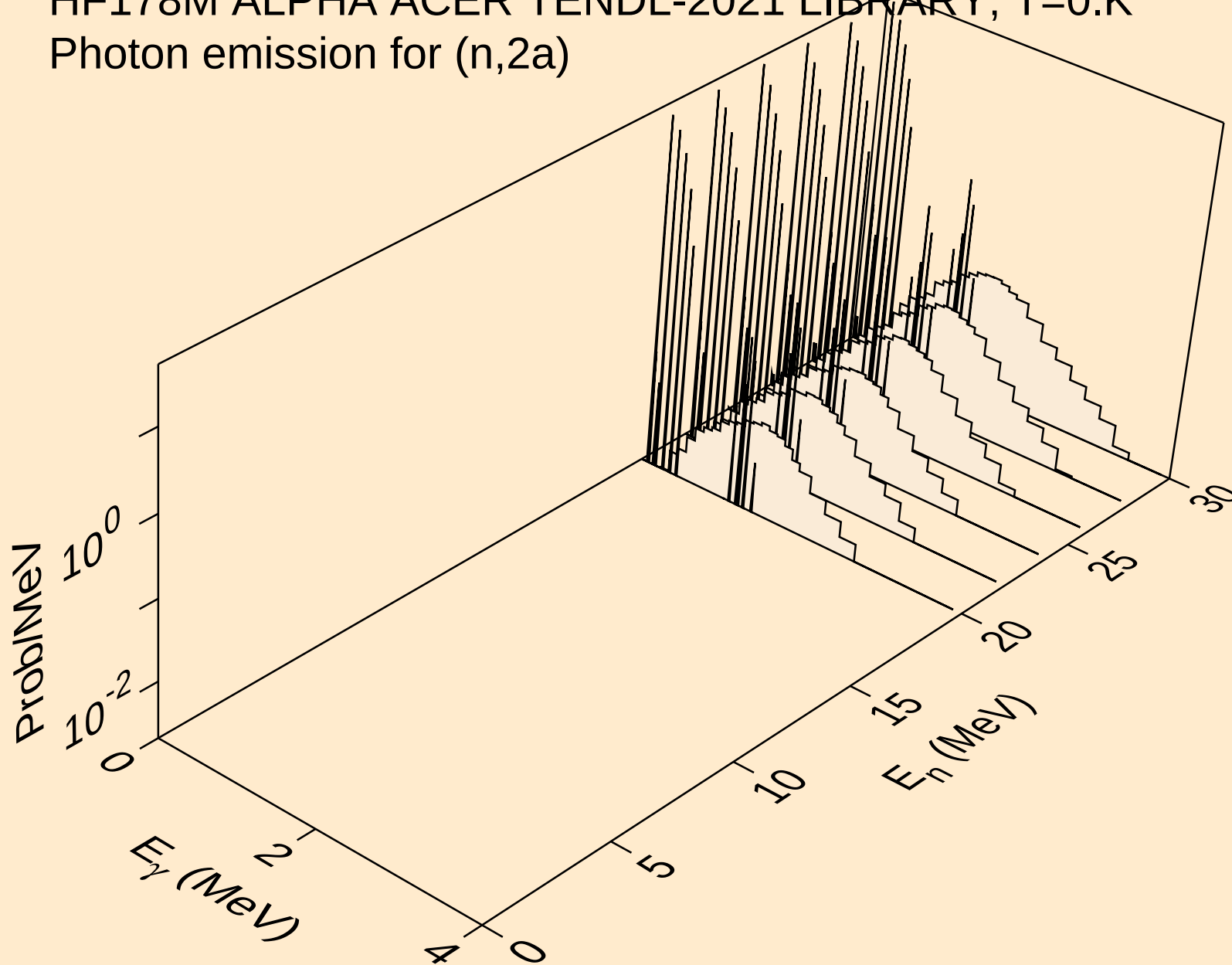
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Photon emission for (n,he3)



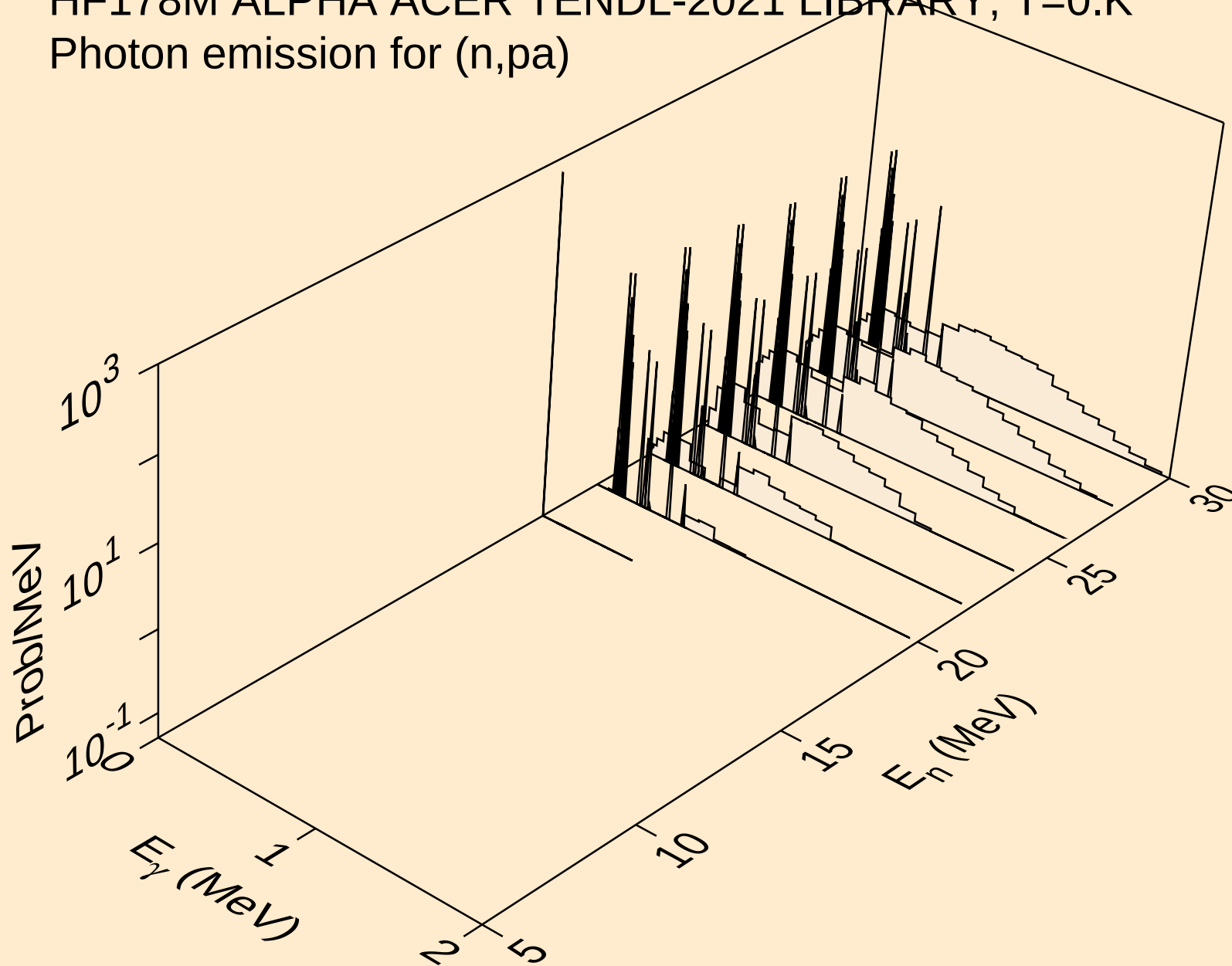
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2a)

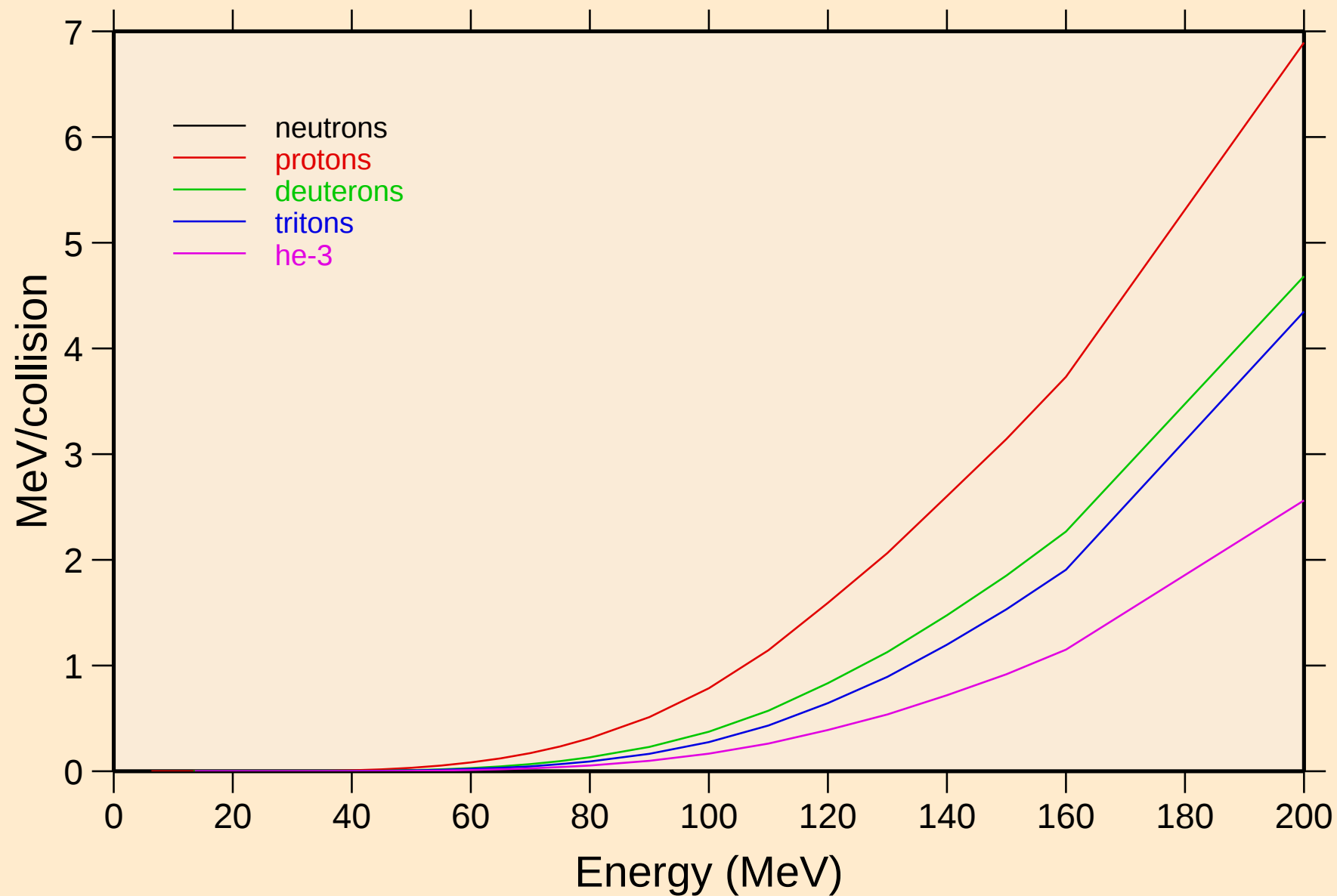


HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pa)



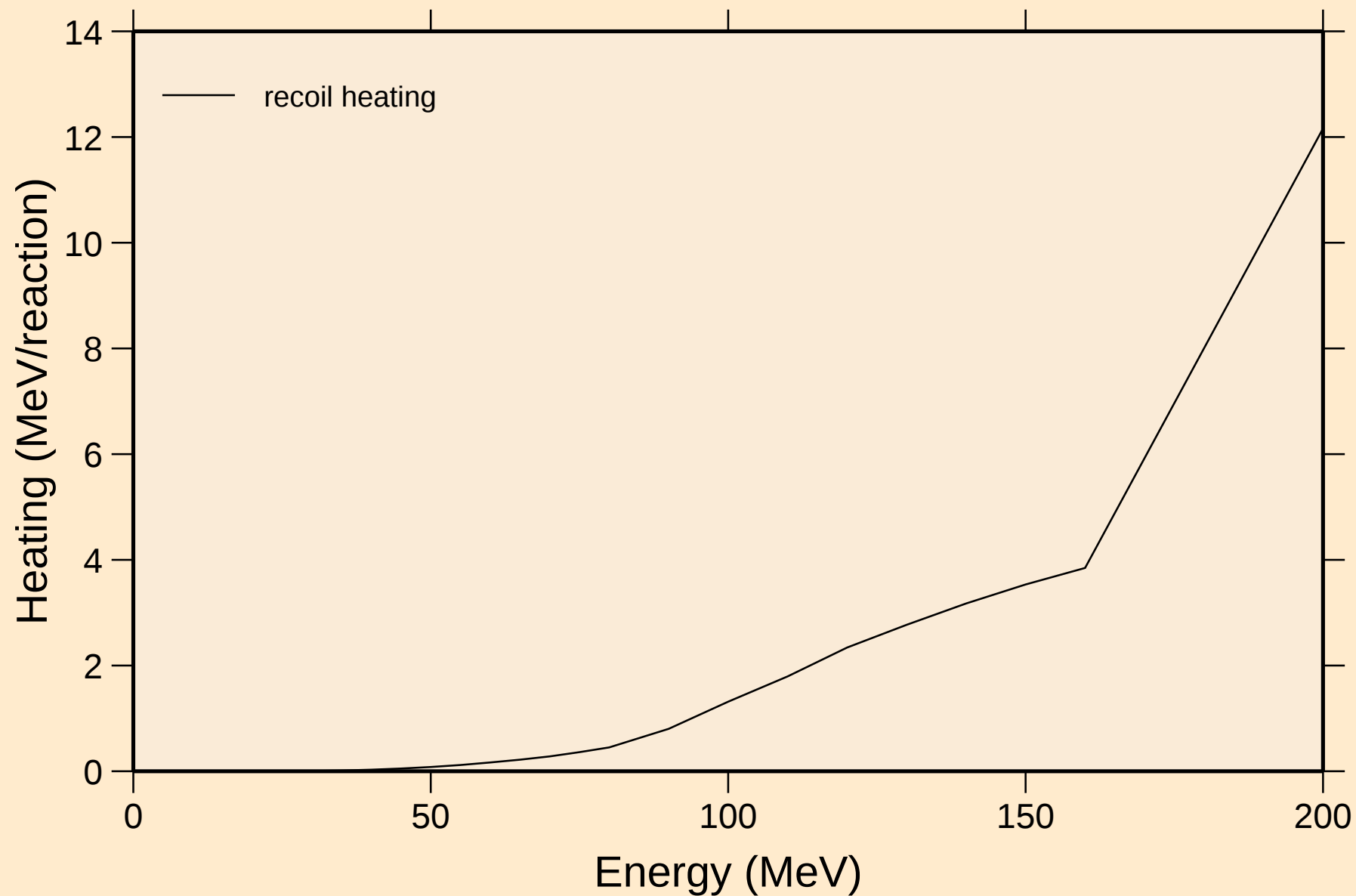
# HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

## Particle heating contributions



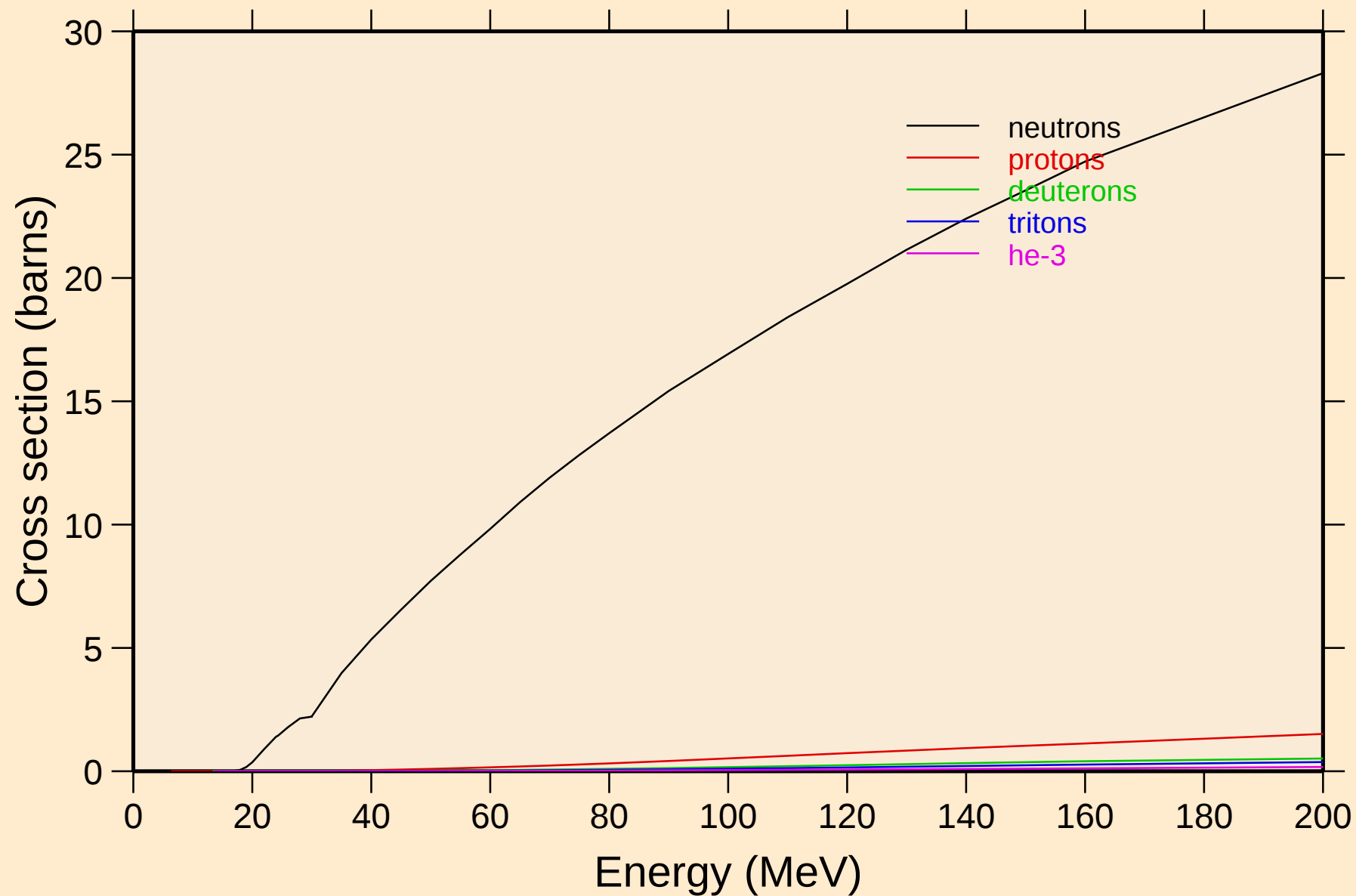
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Recoil Heating

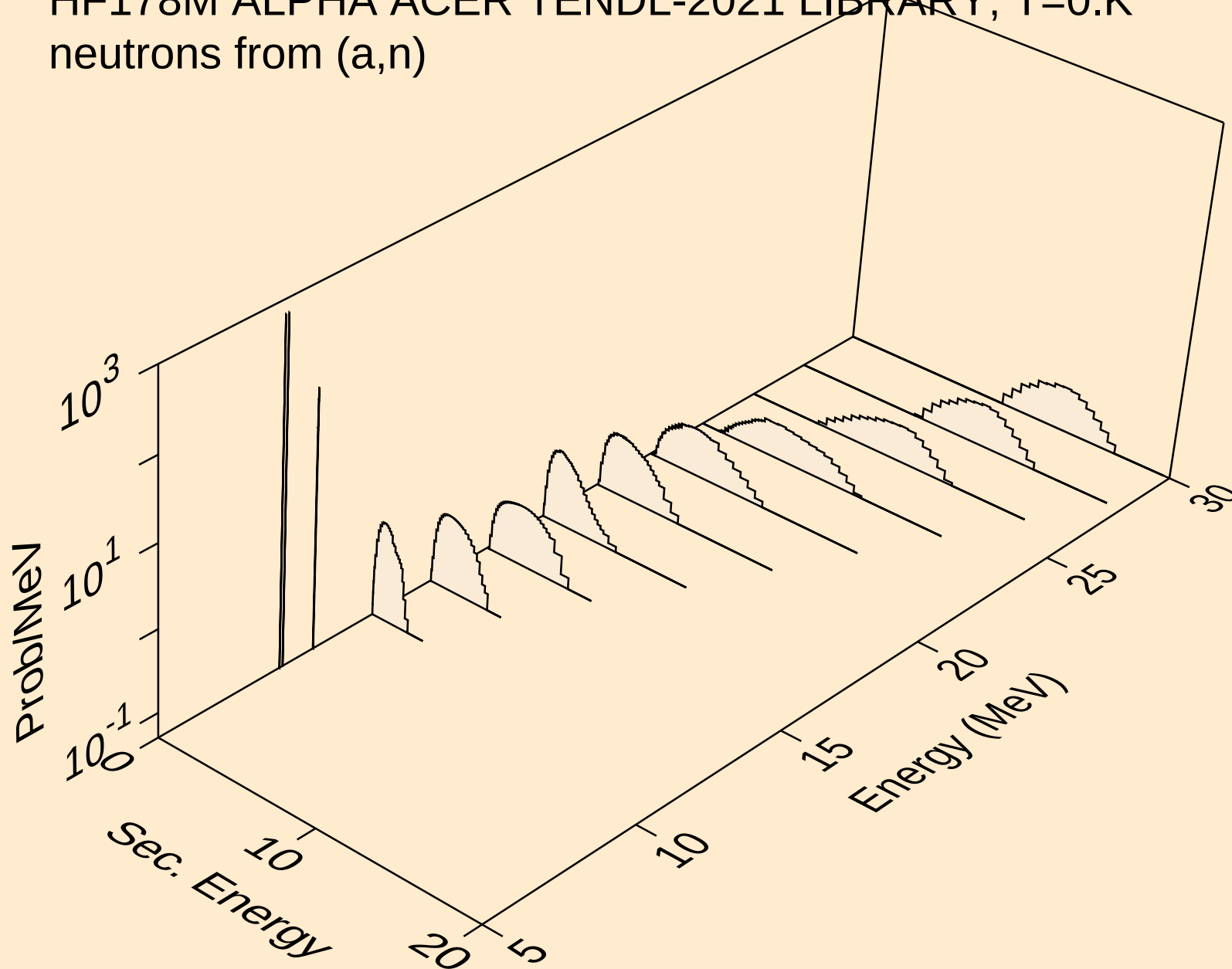


# HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K

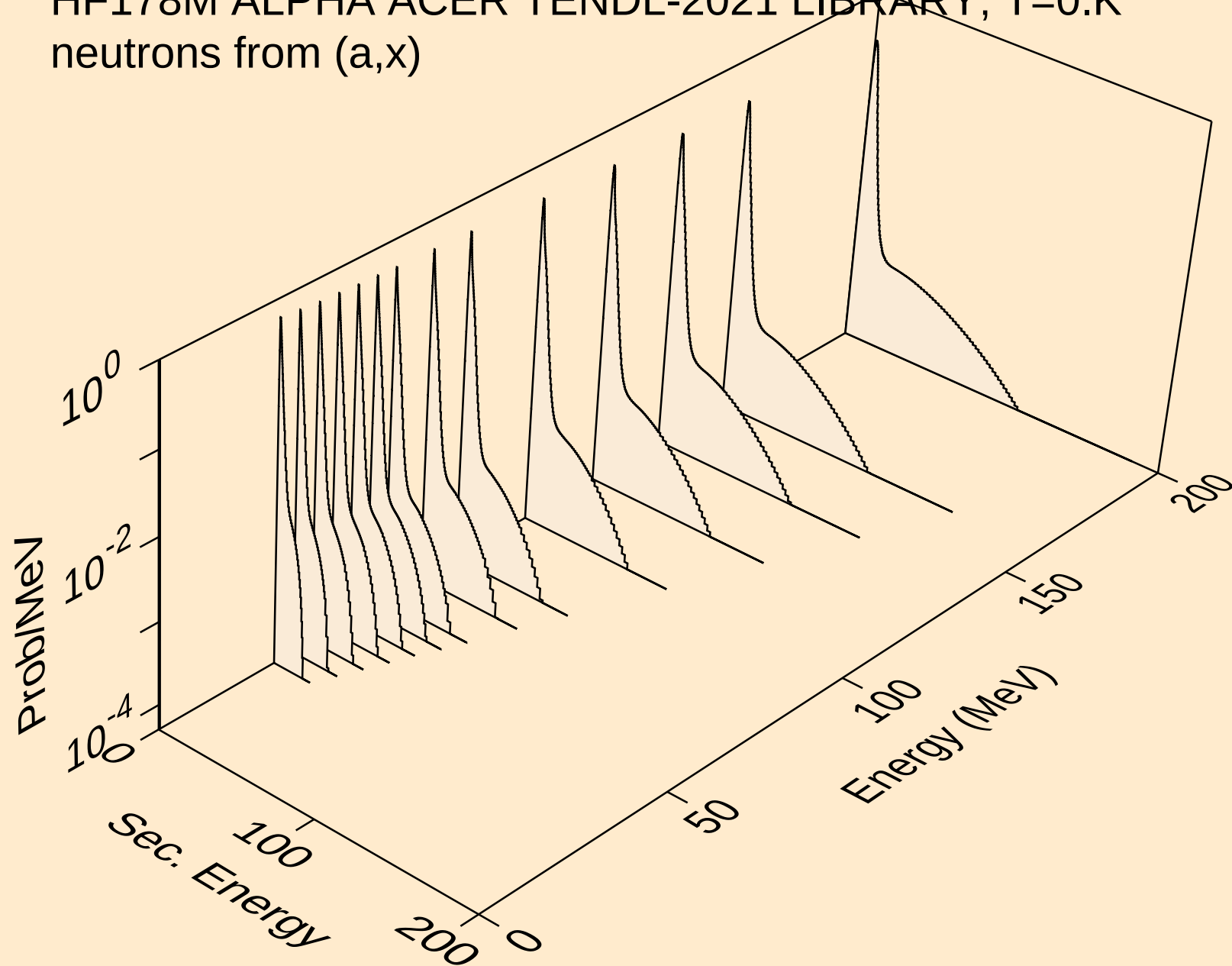
## Particle production cross sections



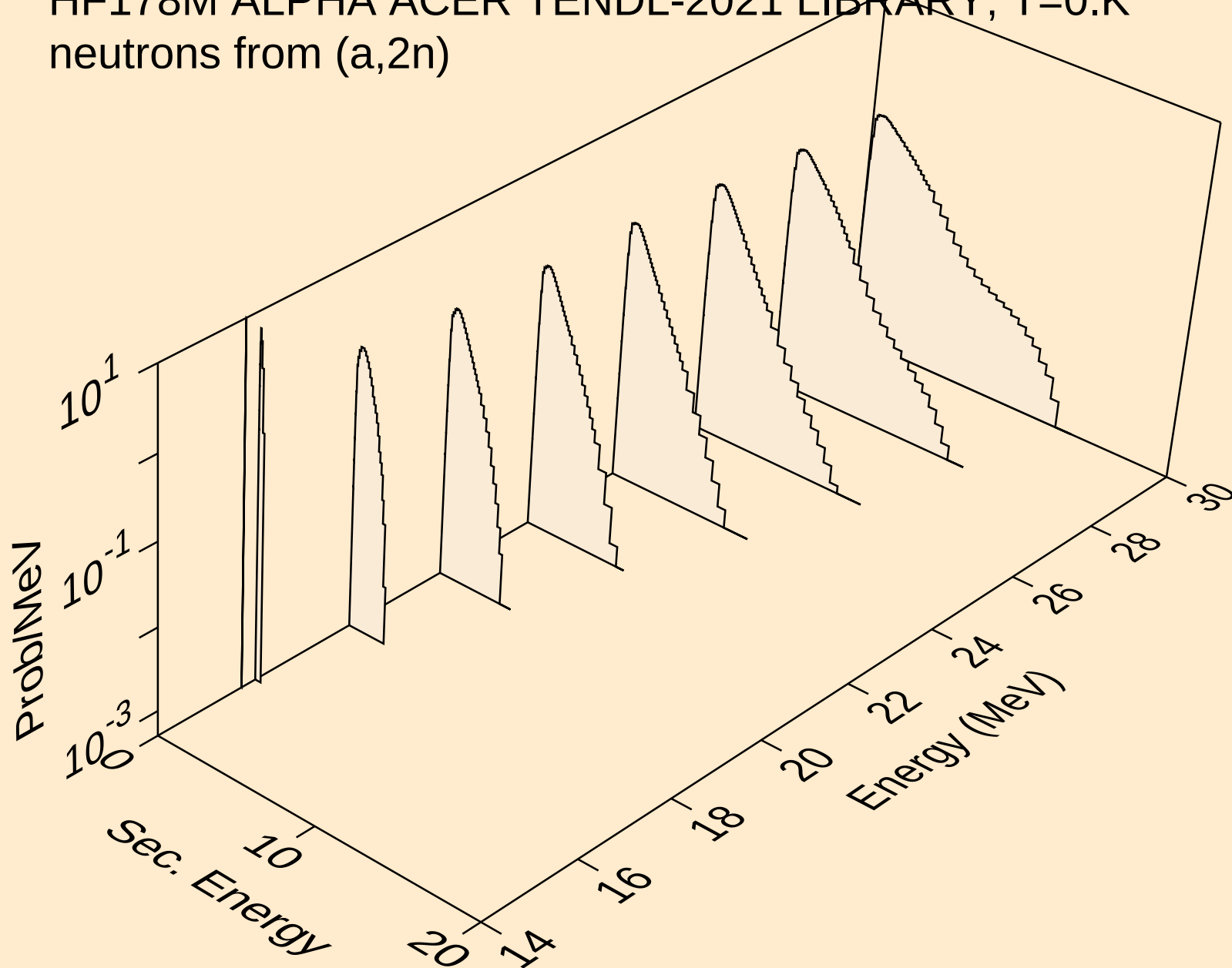
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n)



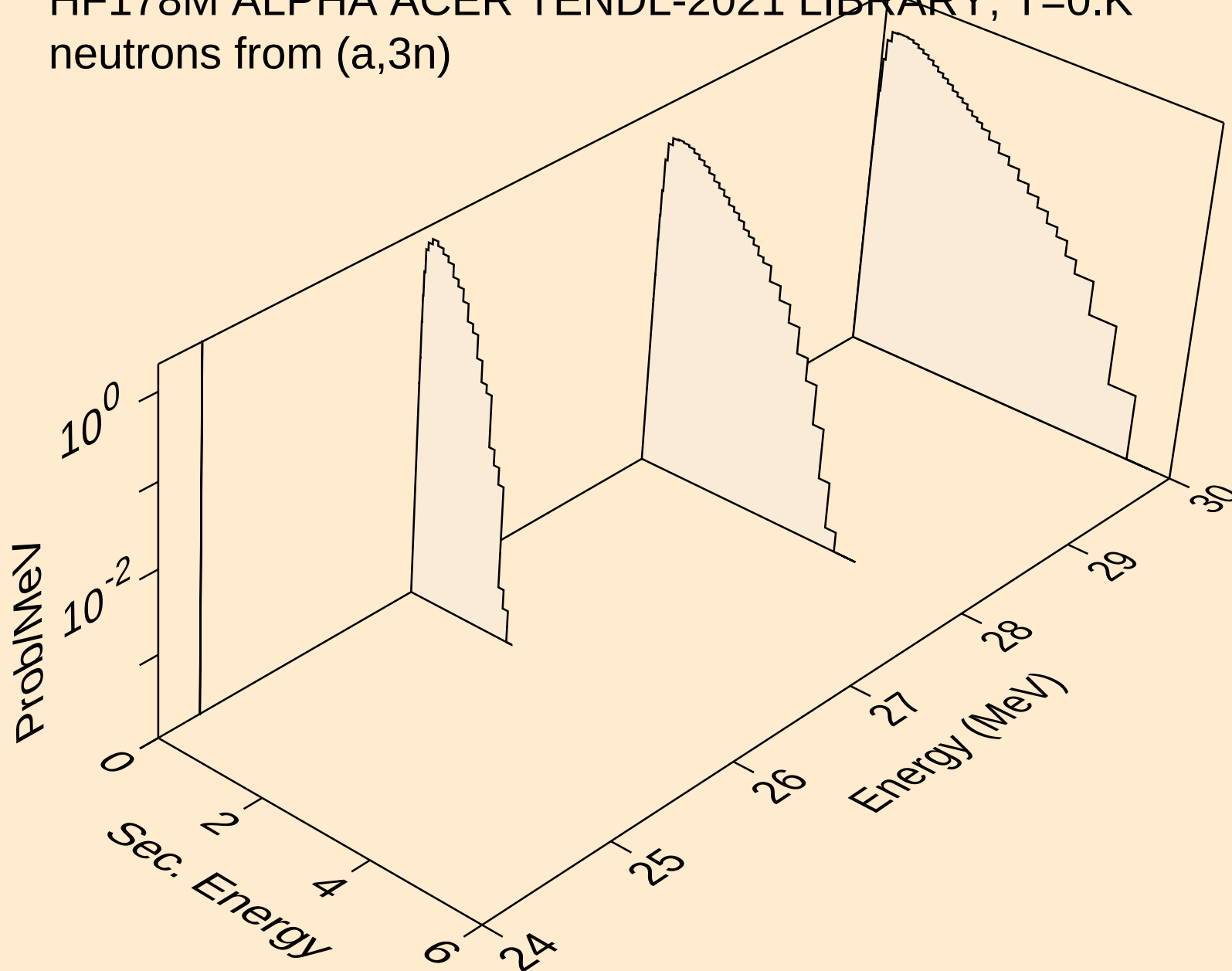
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,x)



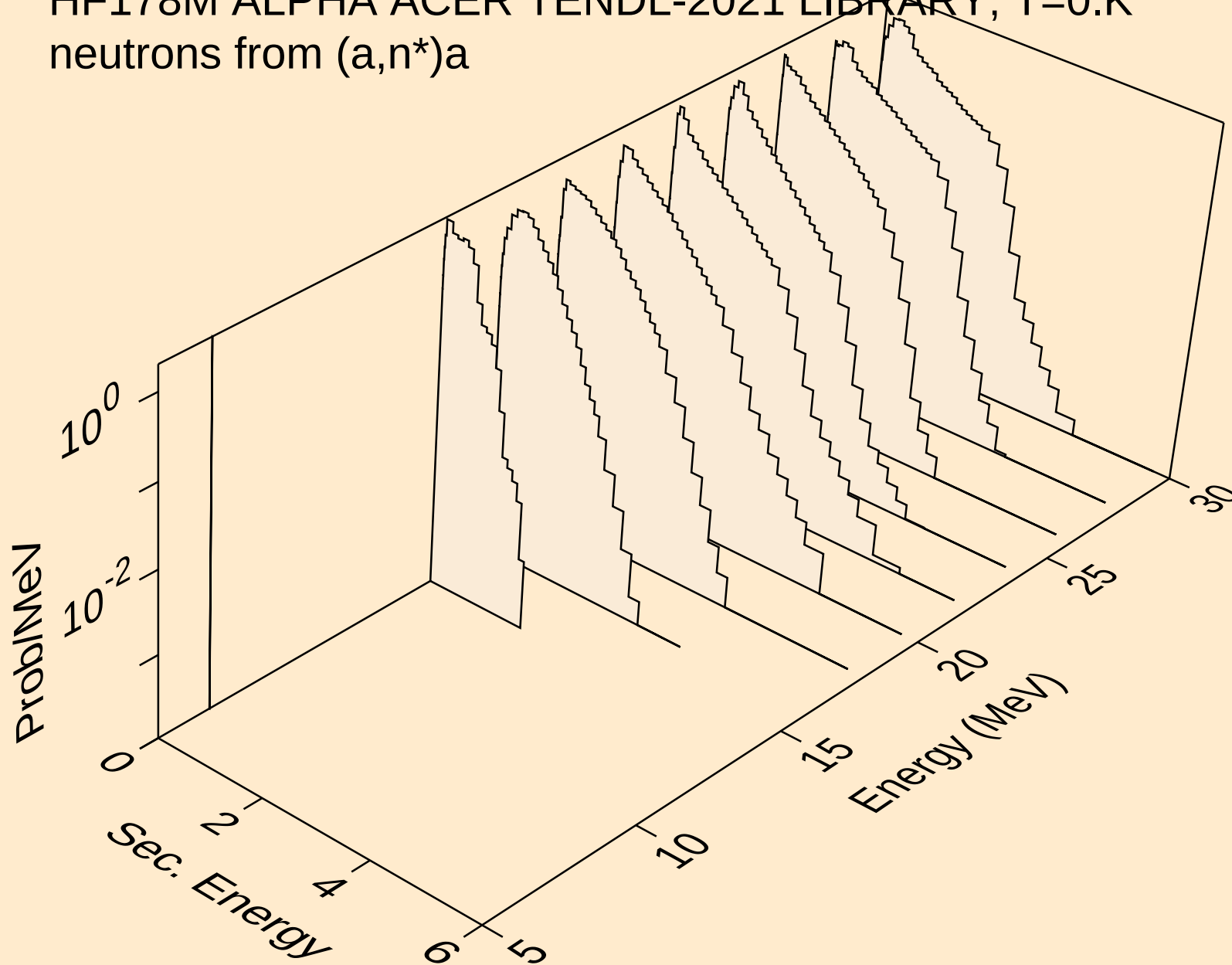
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2n)



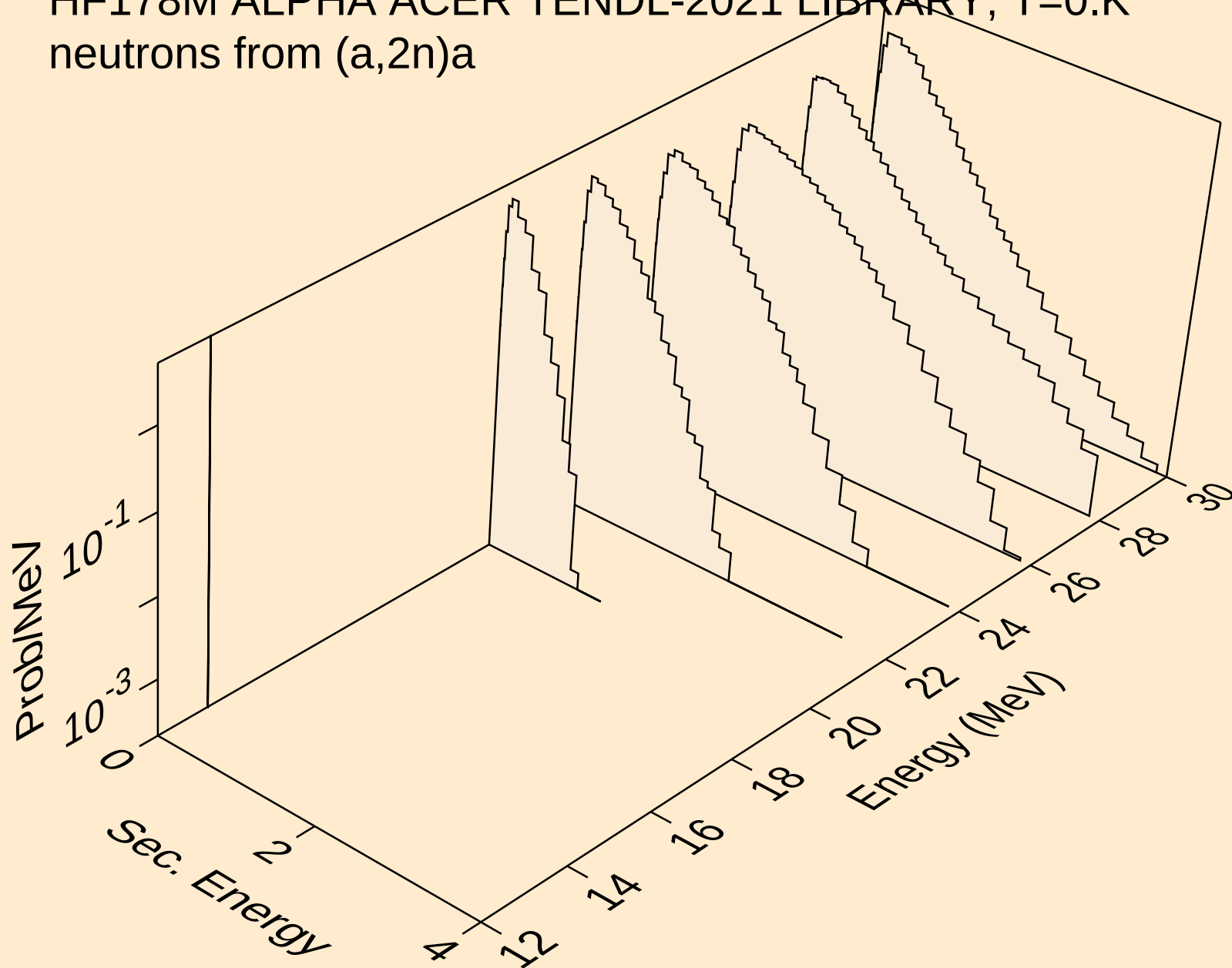
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,3n)



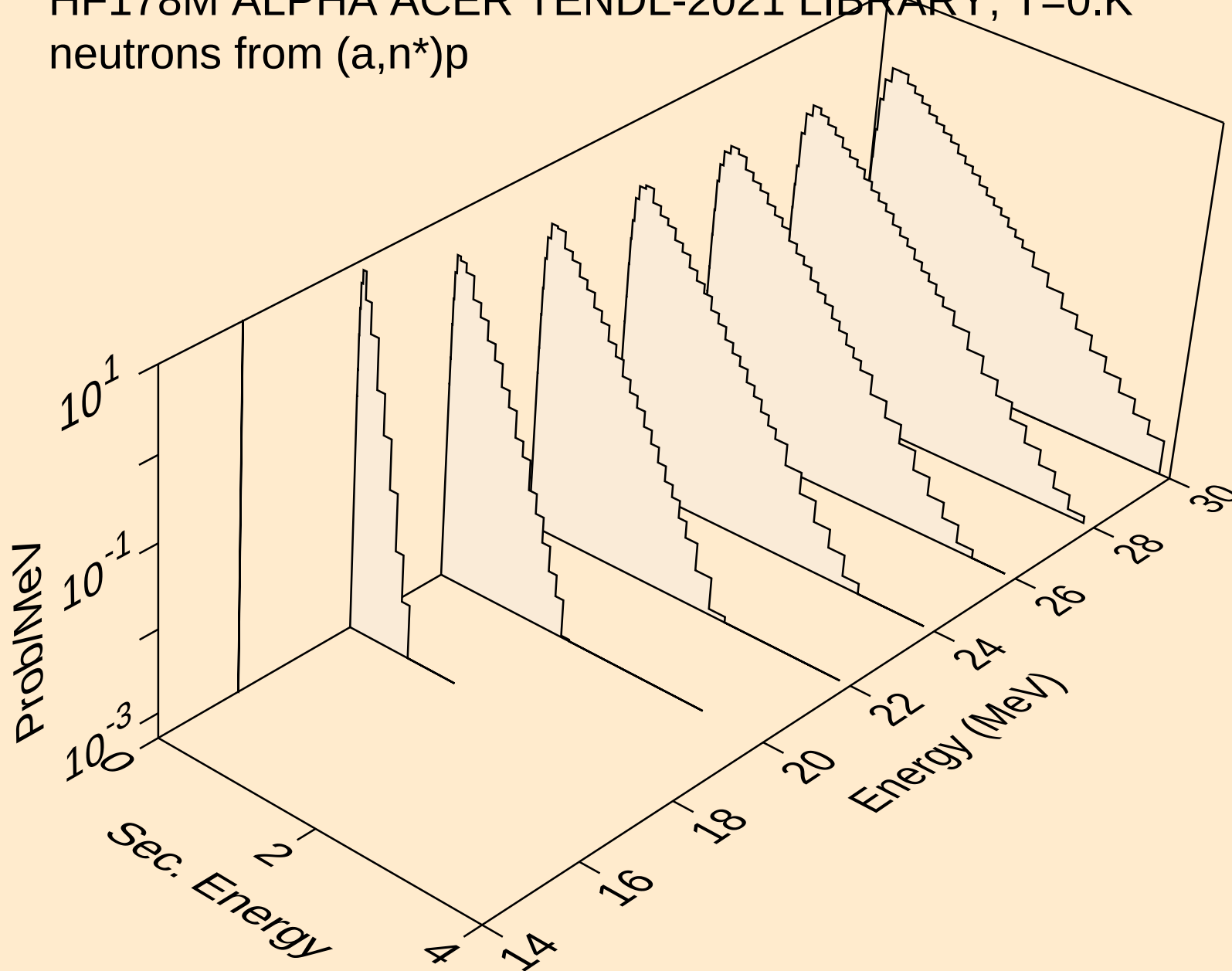
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)a



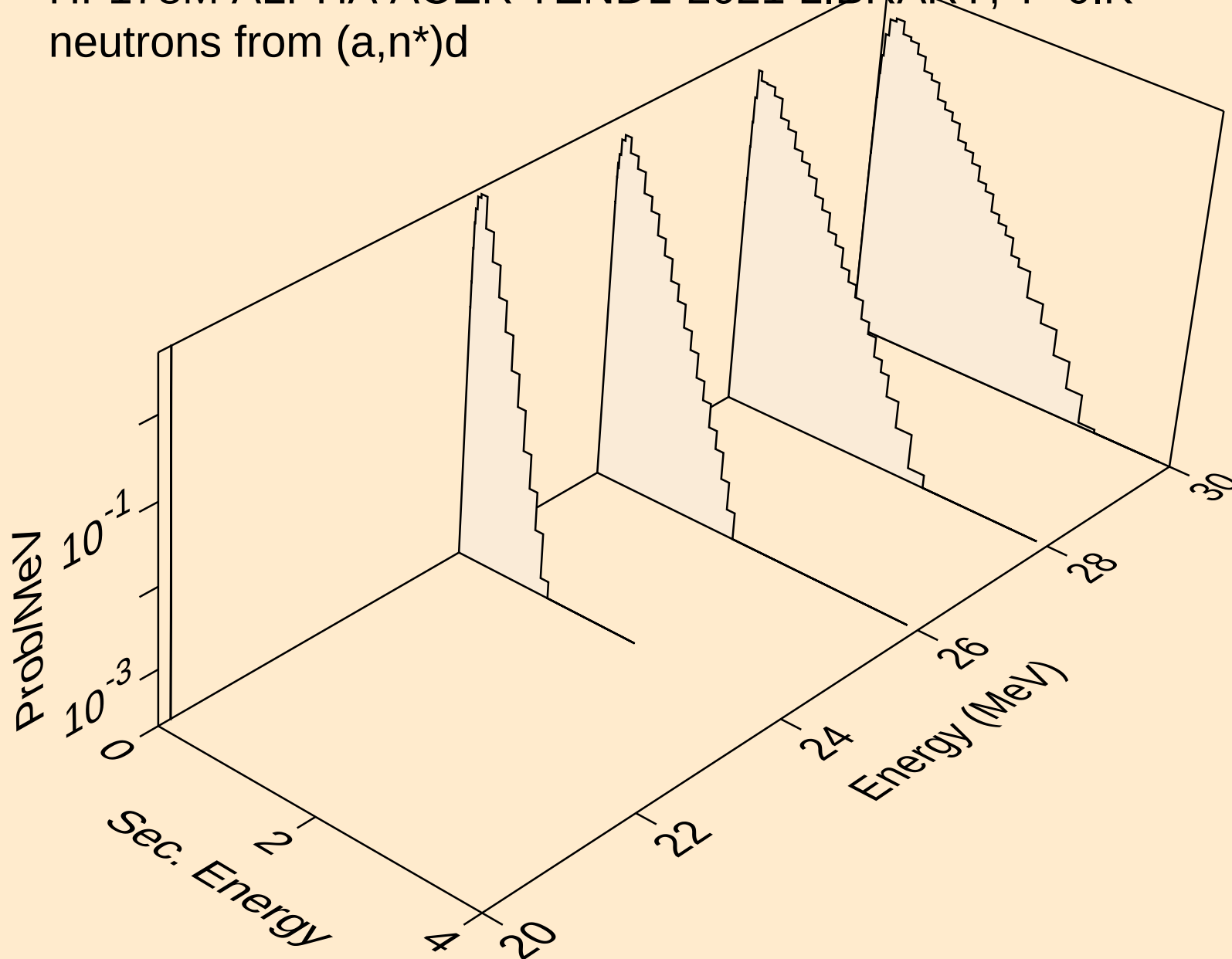
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2n)a



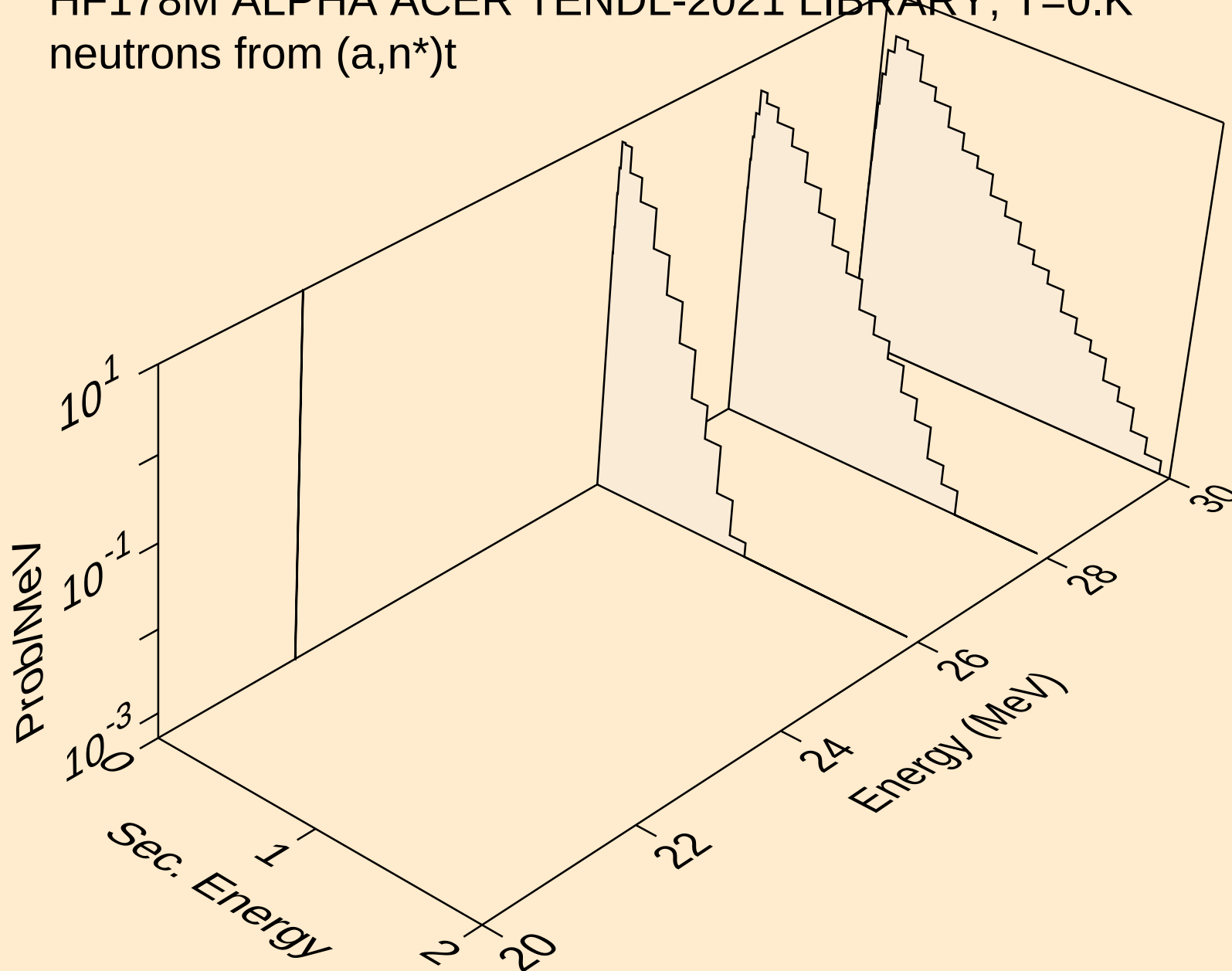
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)p



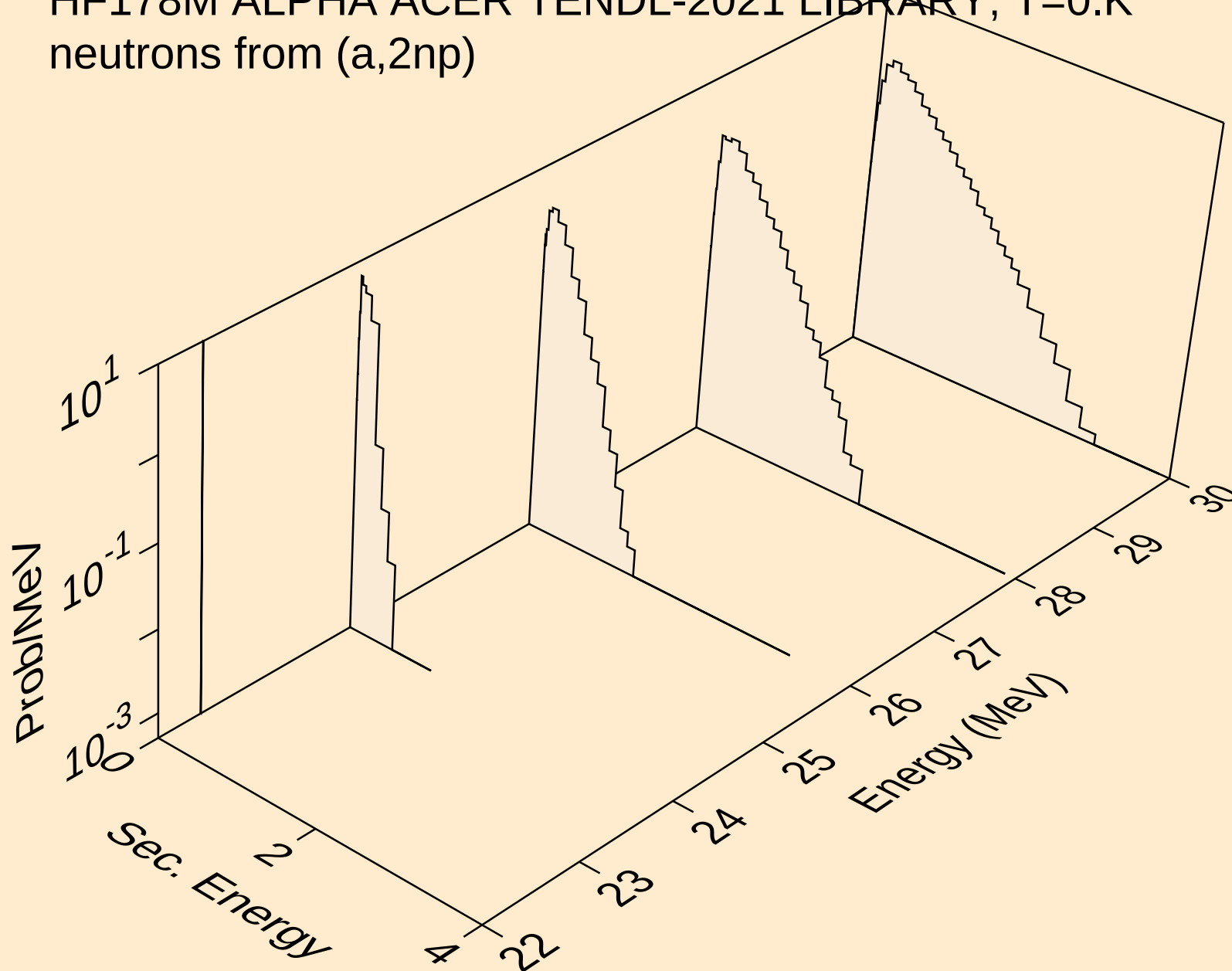
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)d



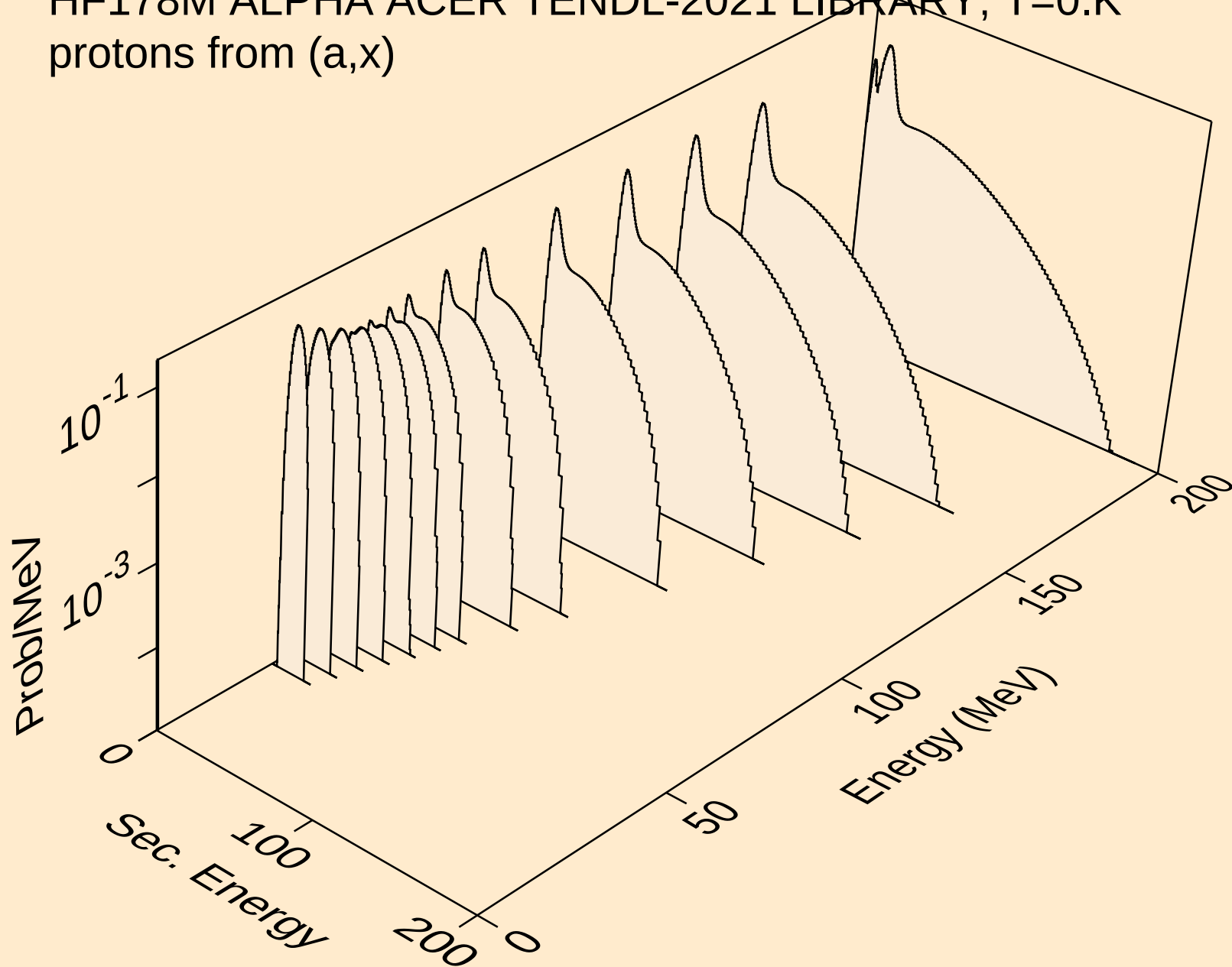
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)t



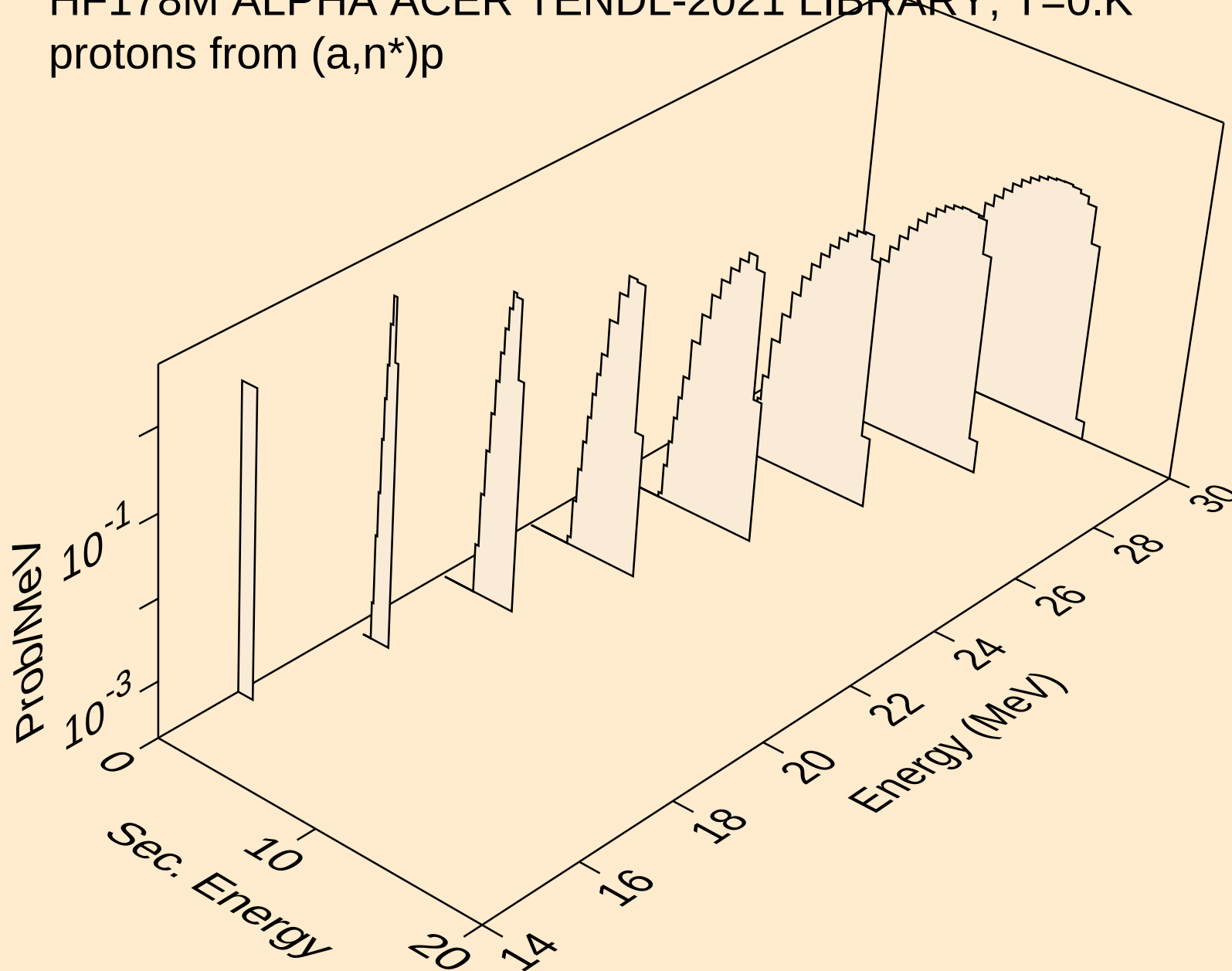
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2np)



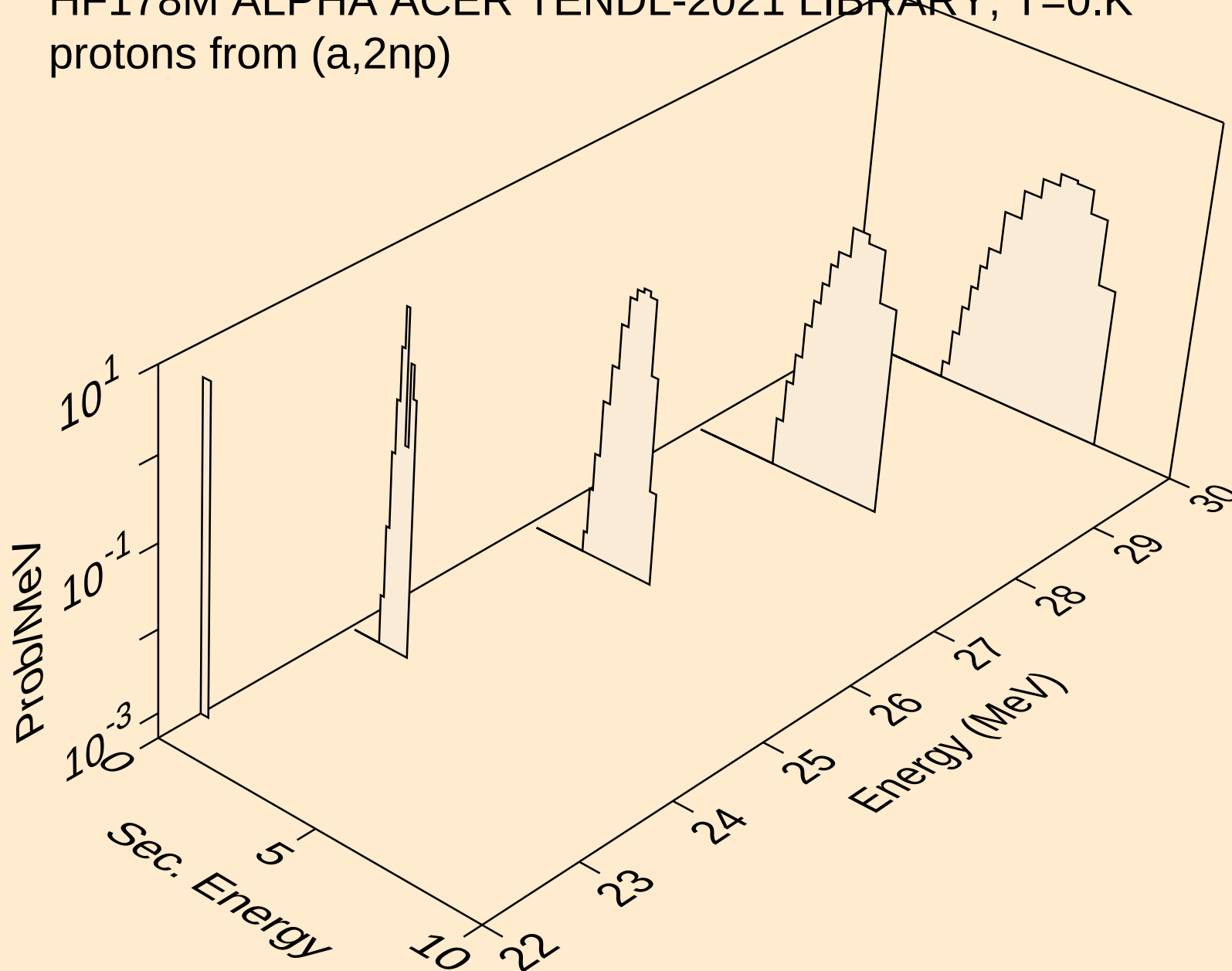
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,x)



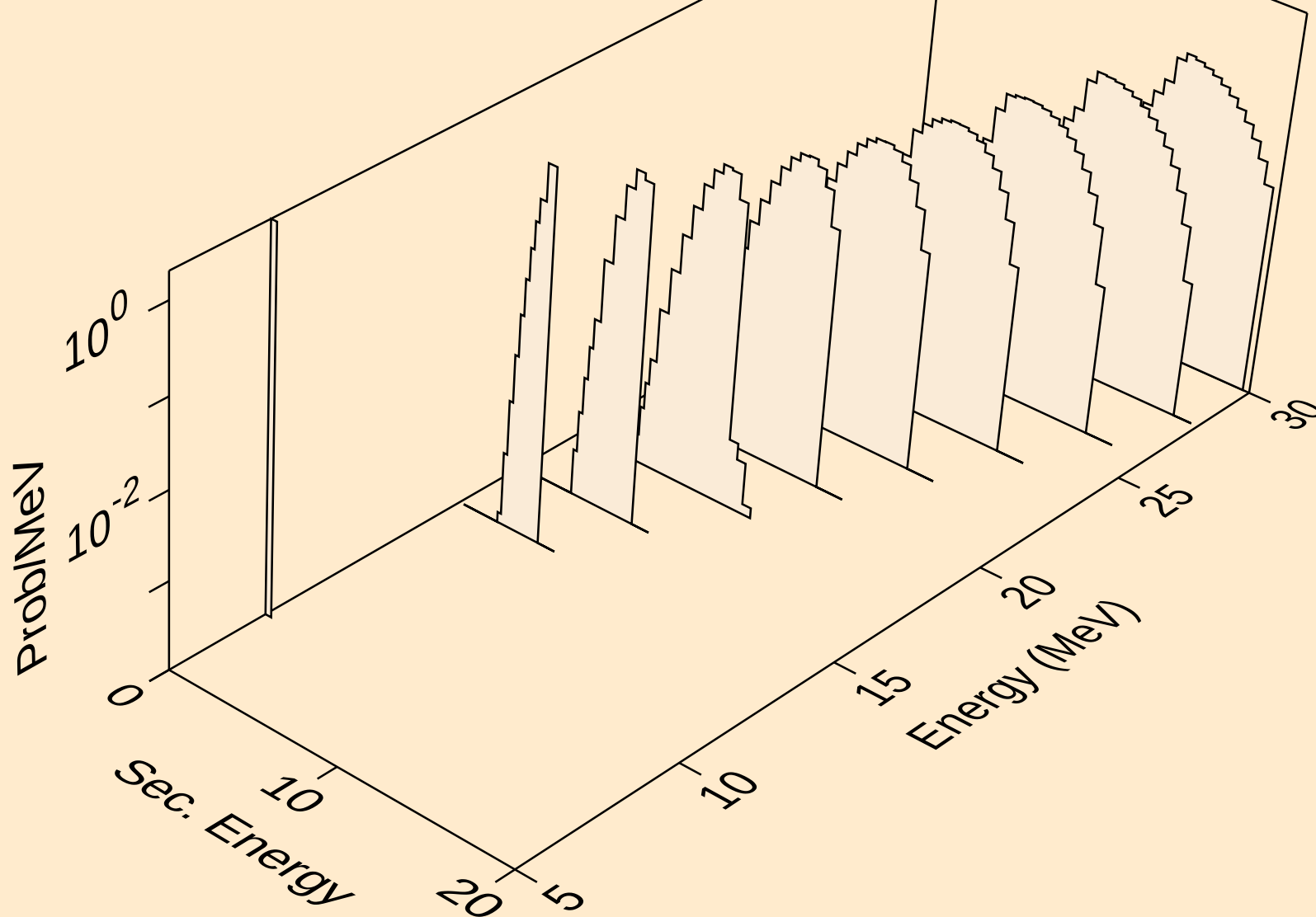
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,n\*)p



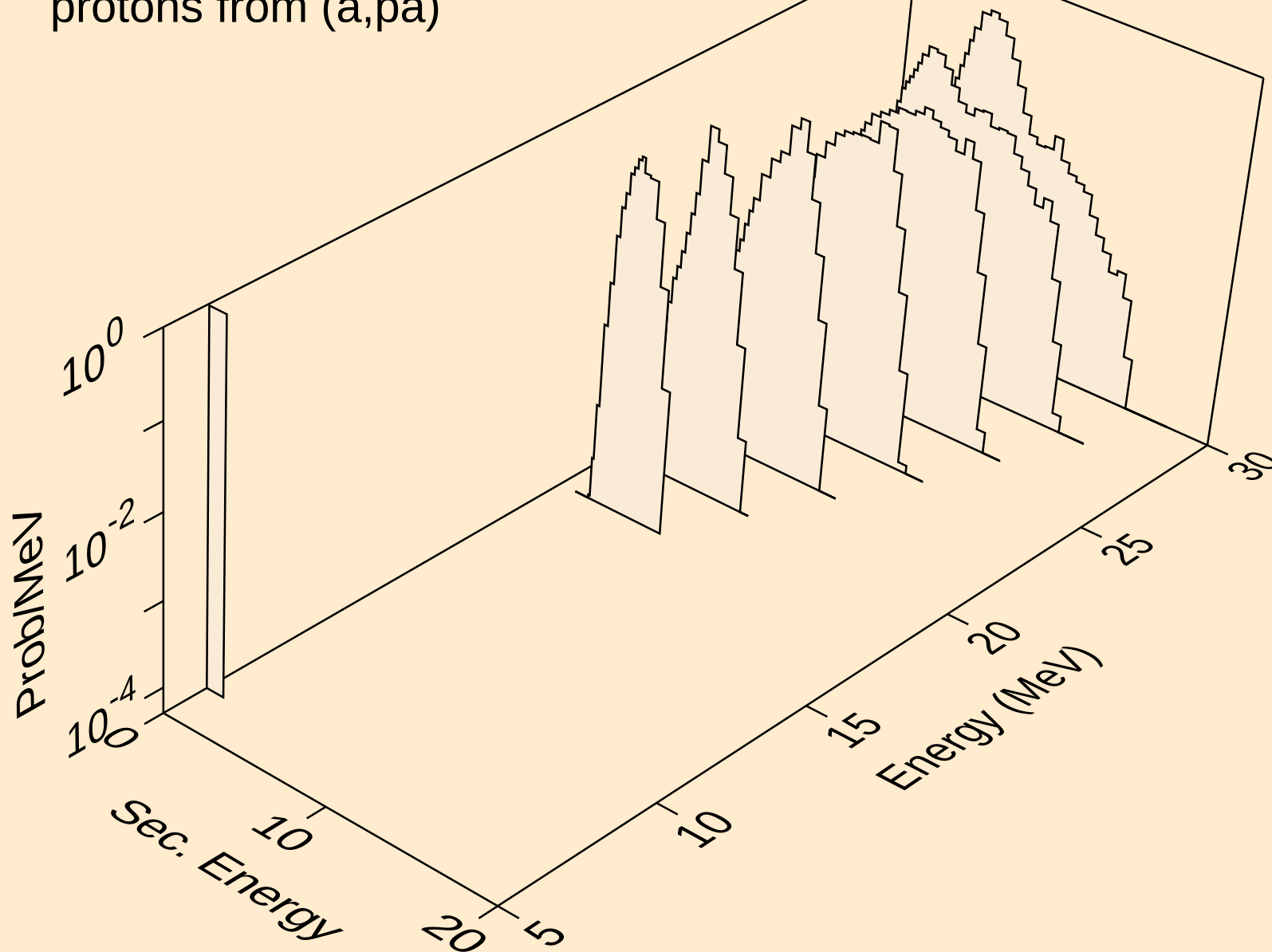
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protons from (a,2np)



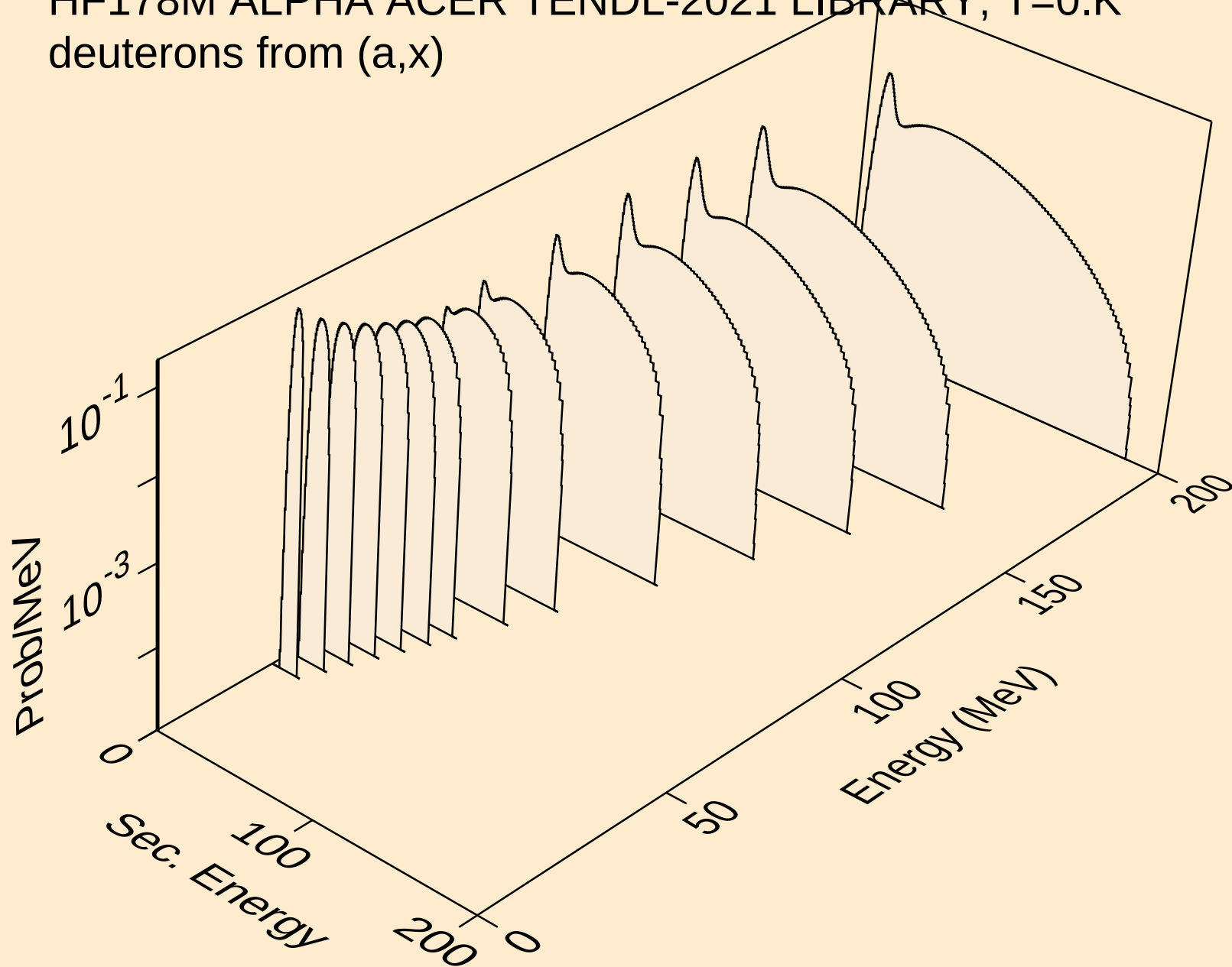
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,p)



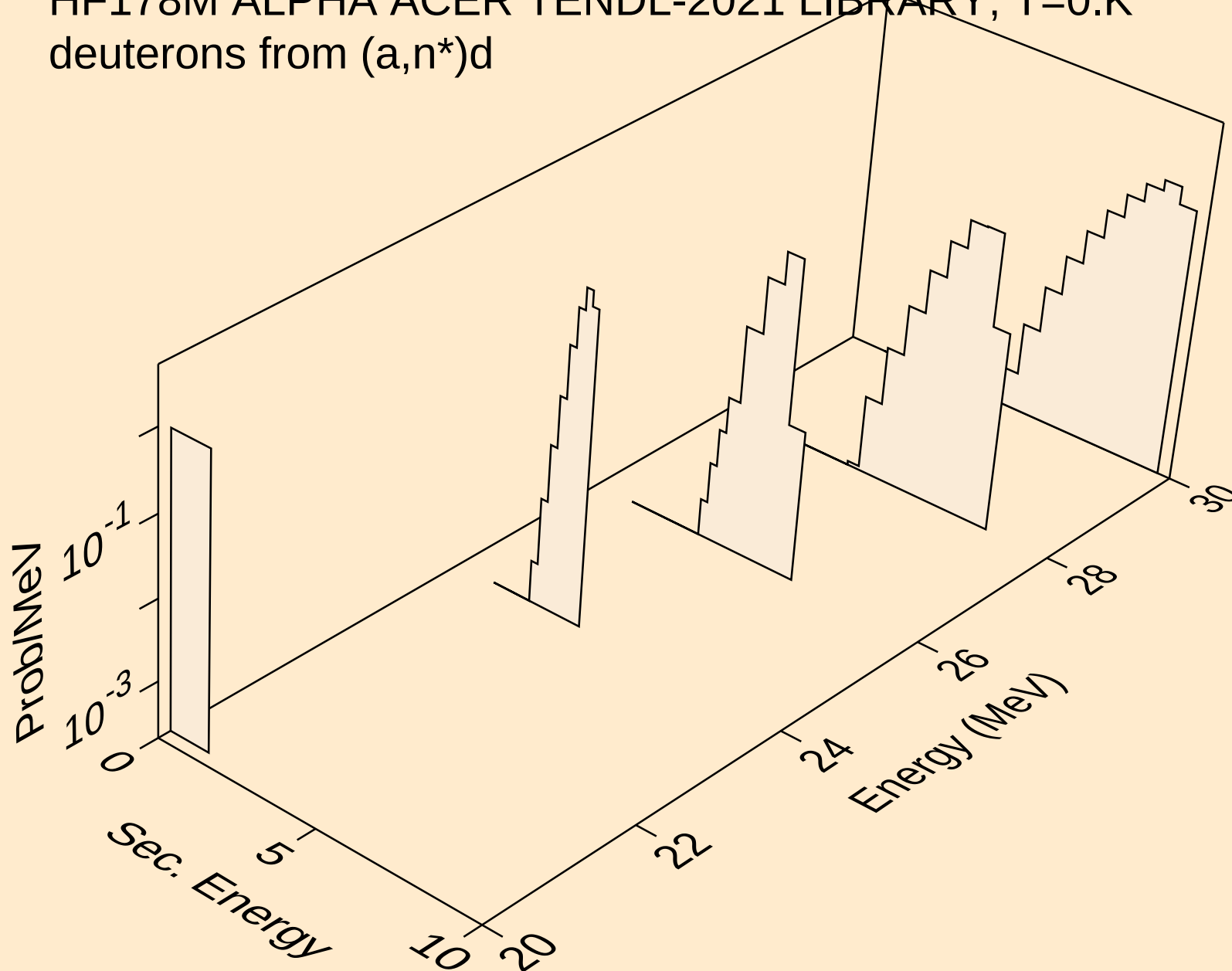
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,pa)



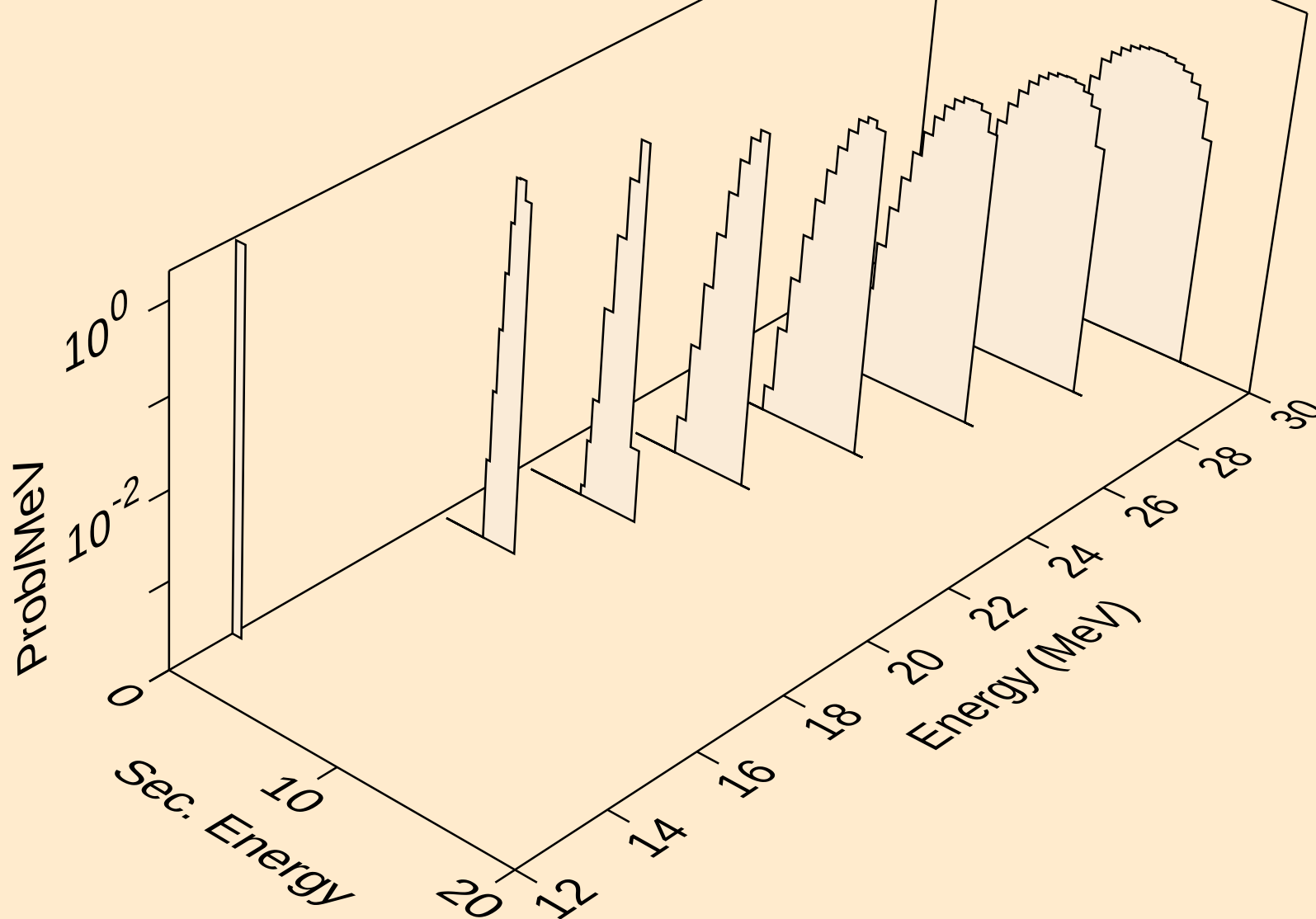
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,x)



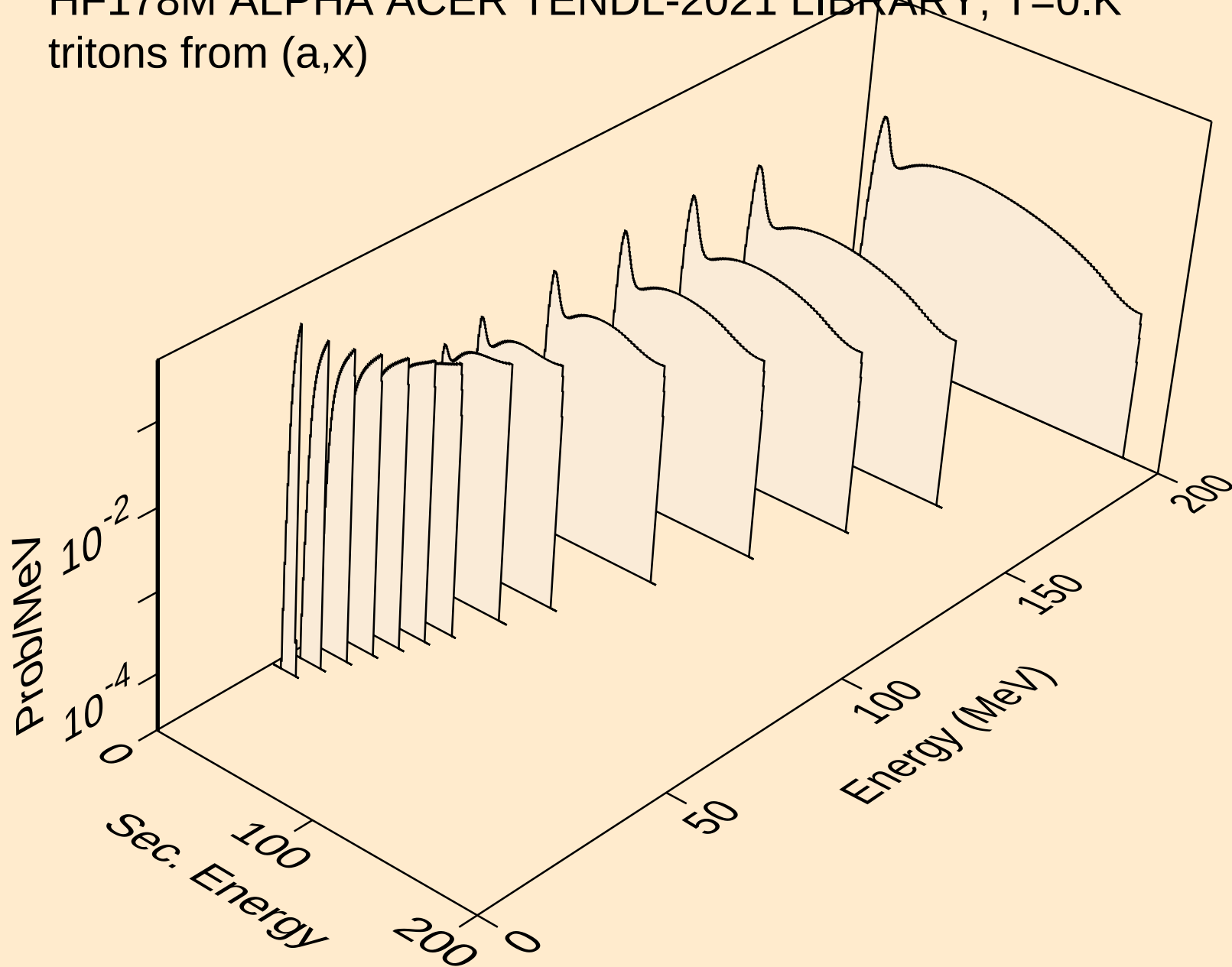
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,n\*)d



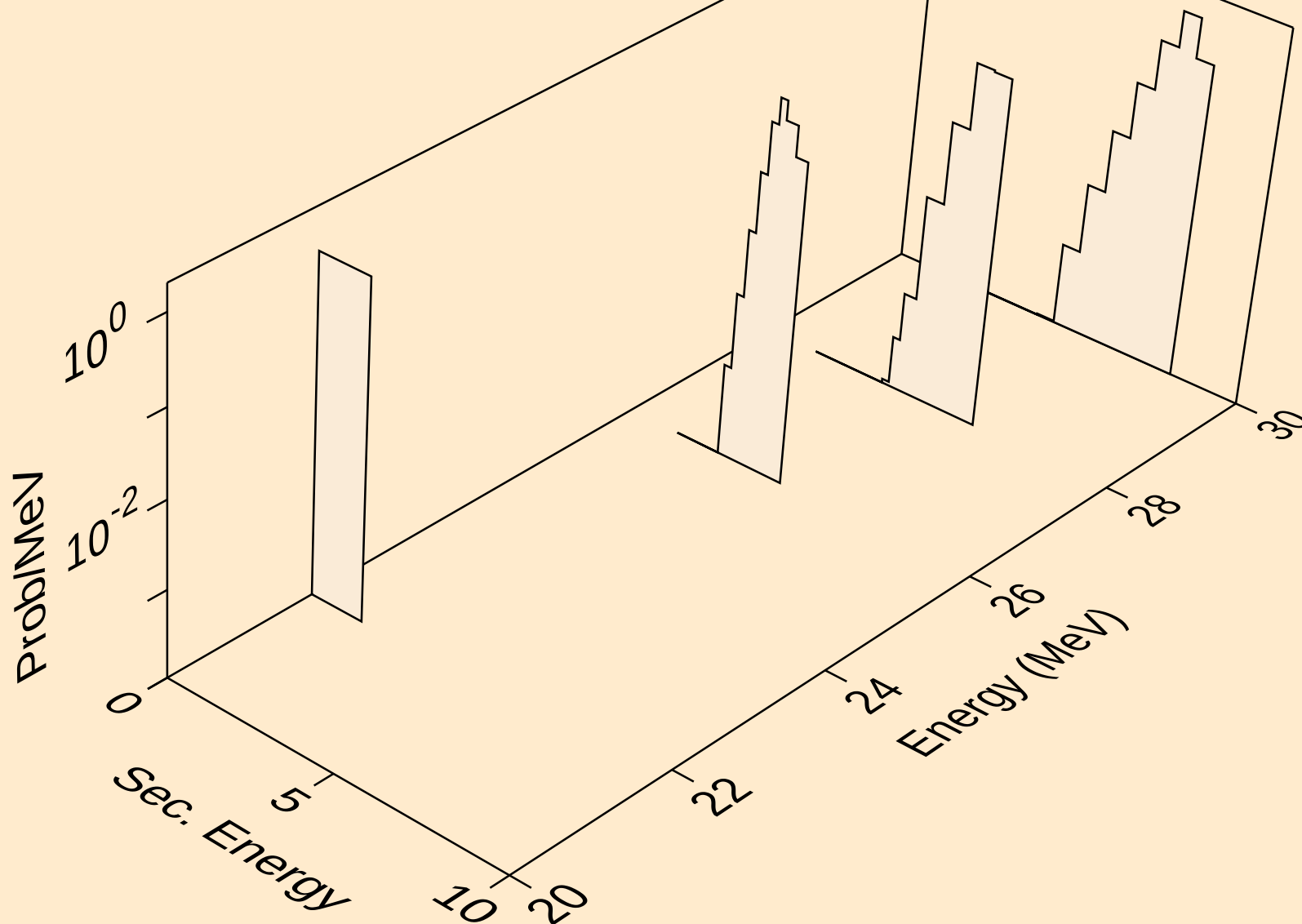
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,d)



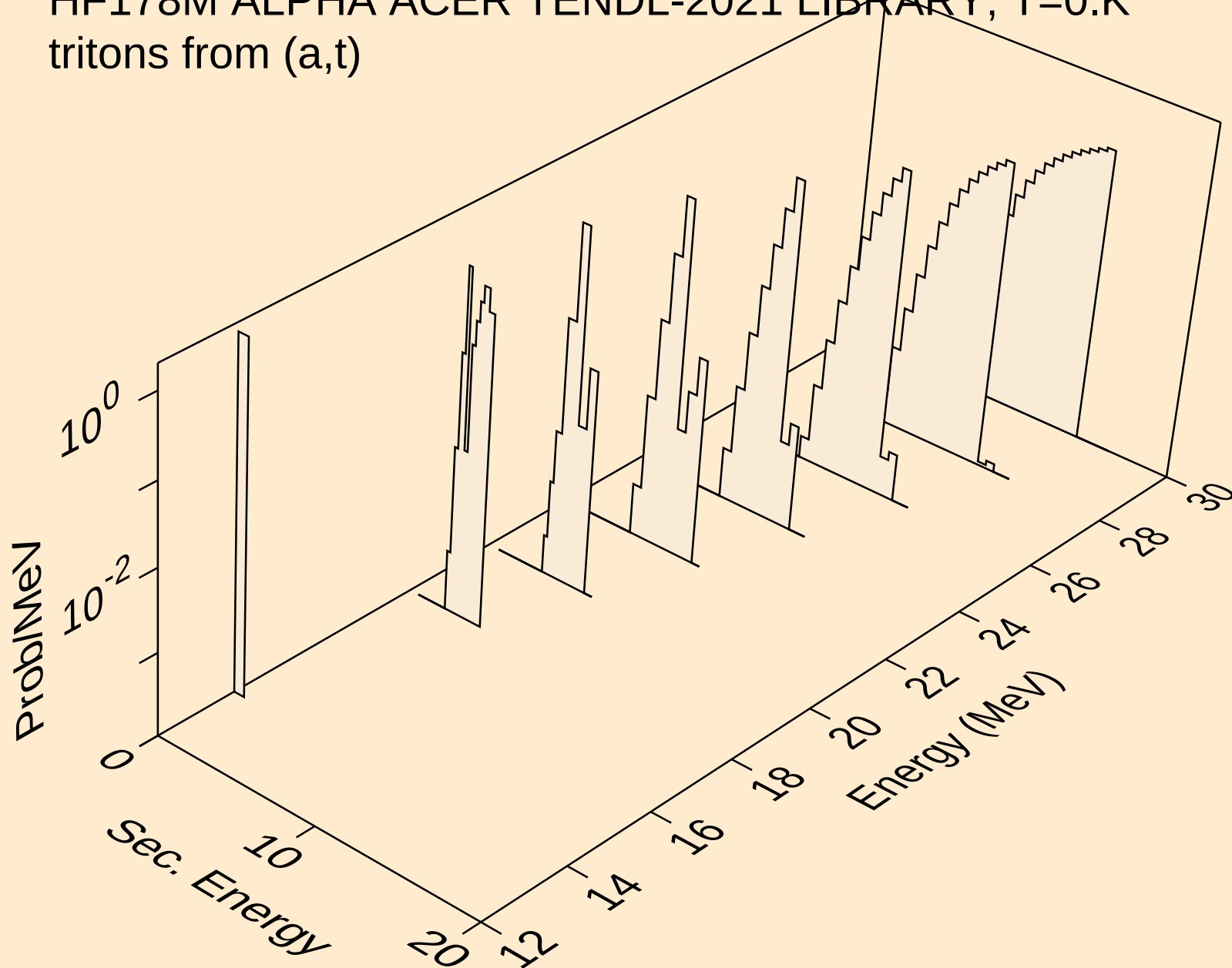
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,x)



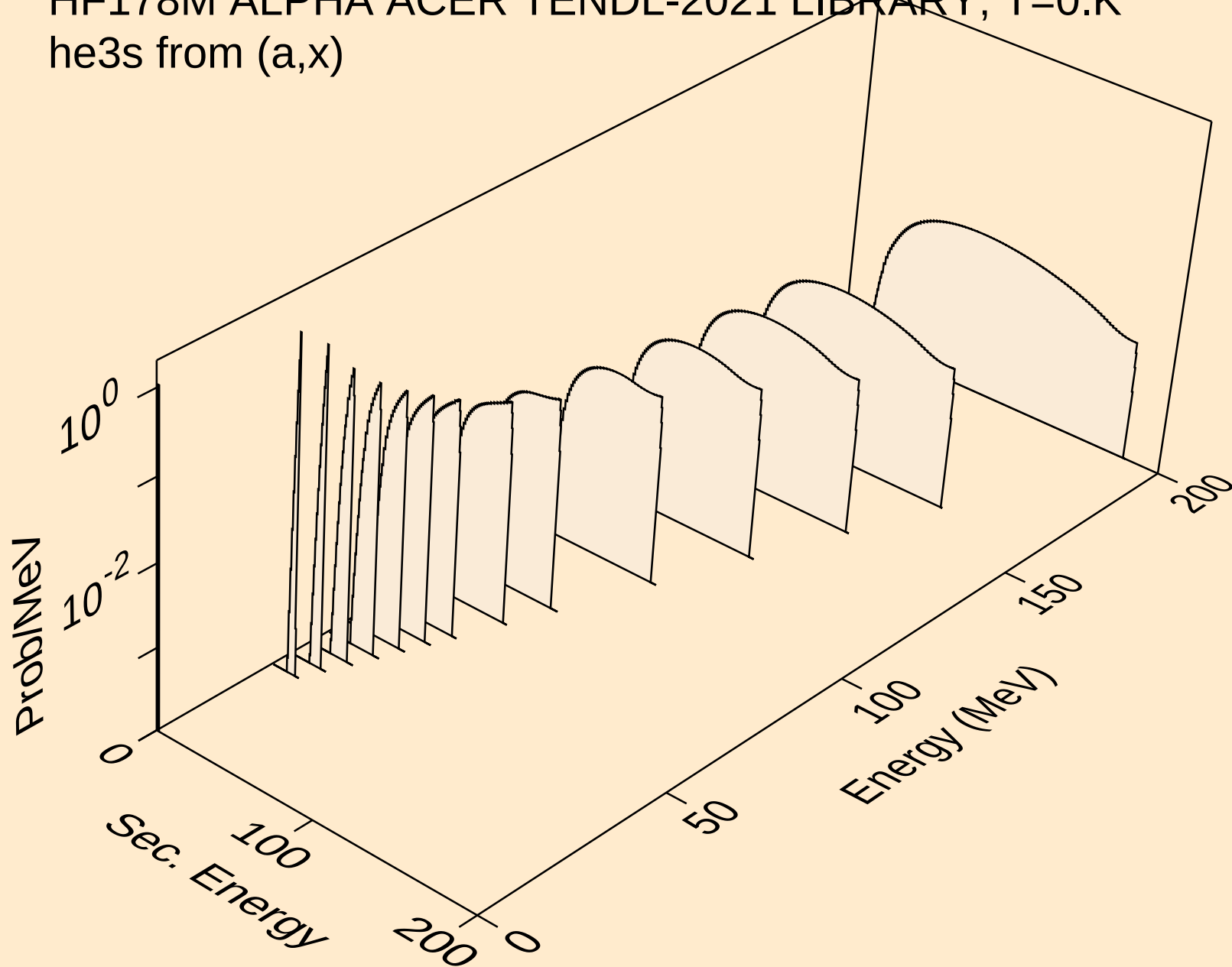
HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,n\*)t



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,t)



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,x)



HF178M ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,he3)

