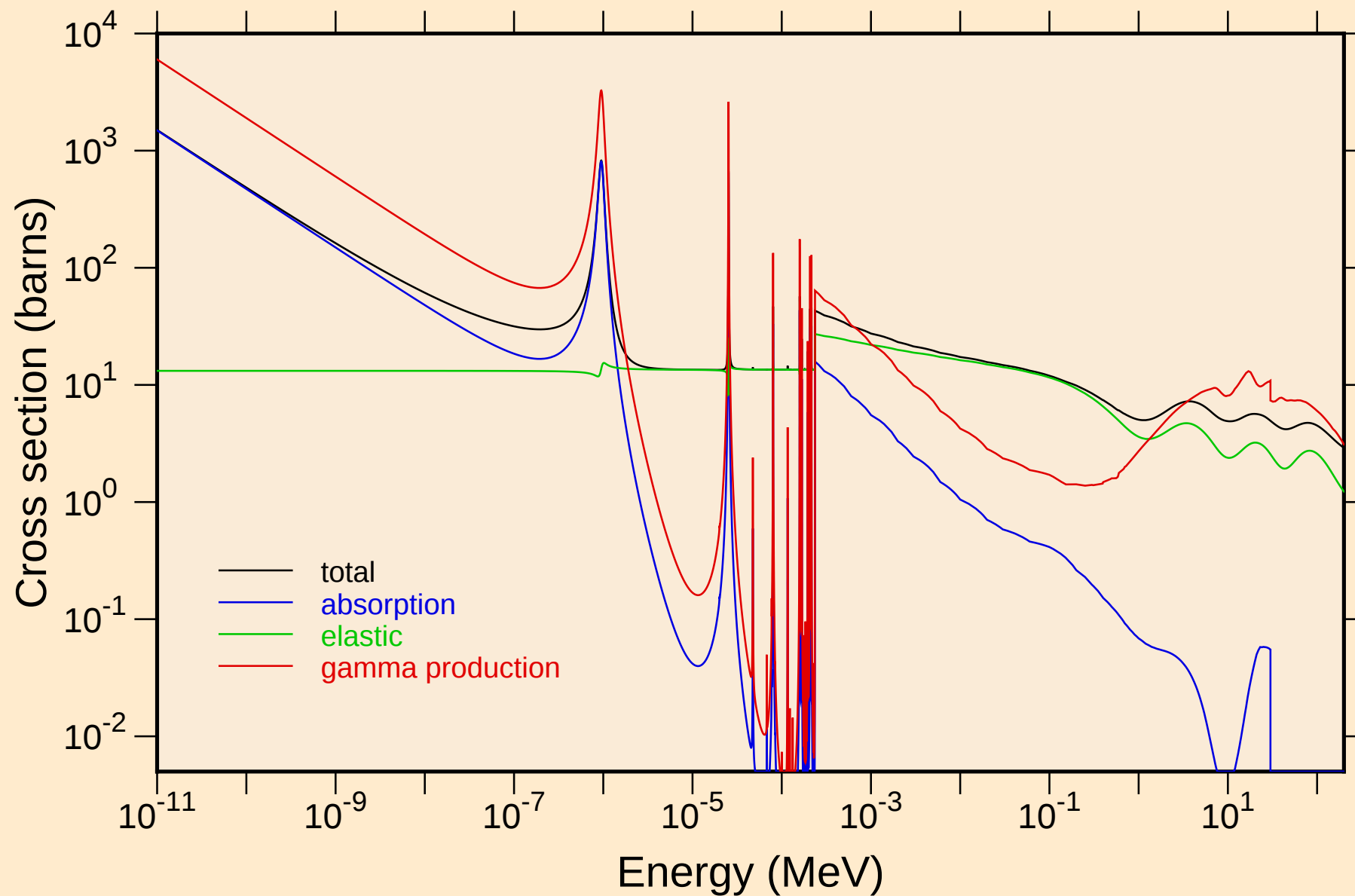
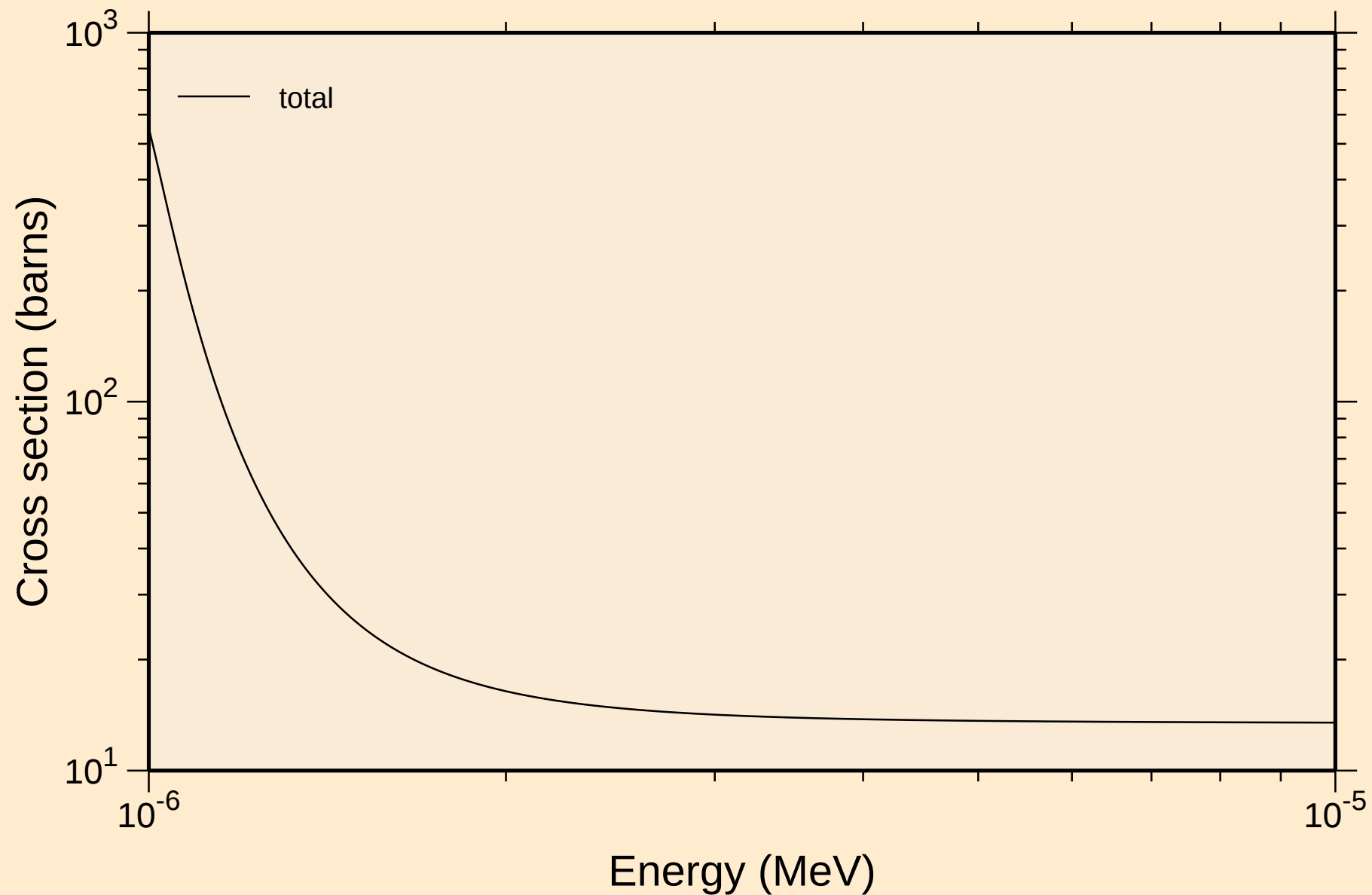


# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

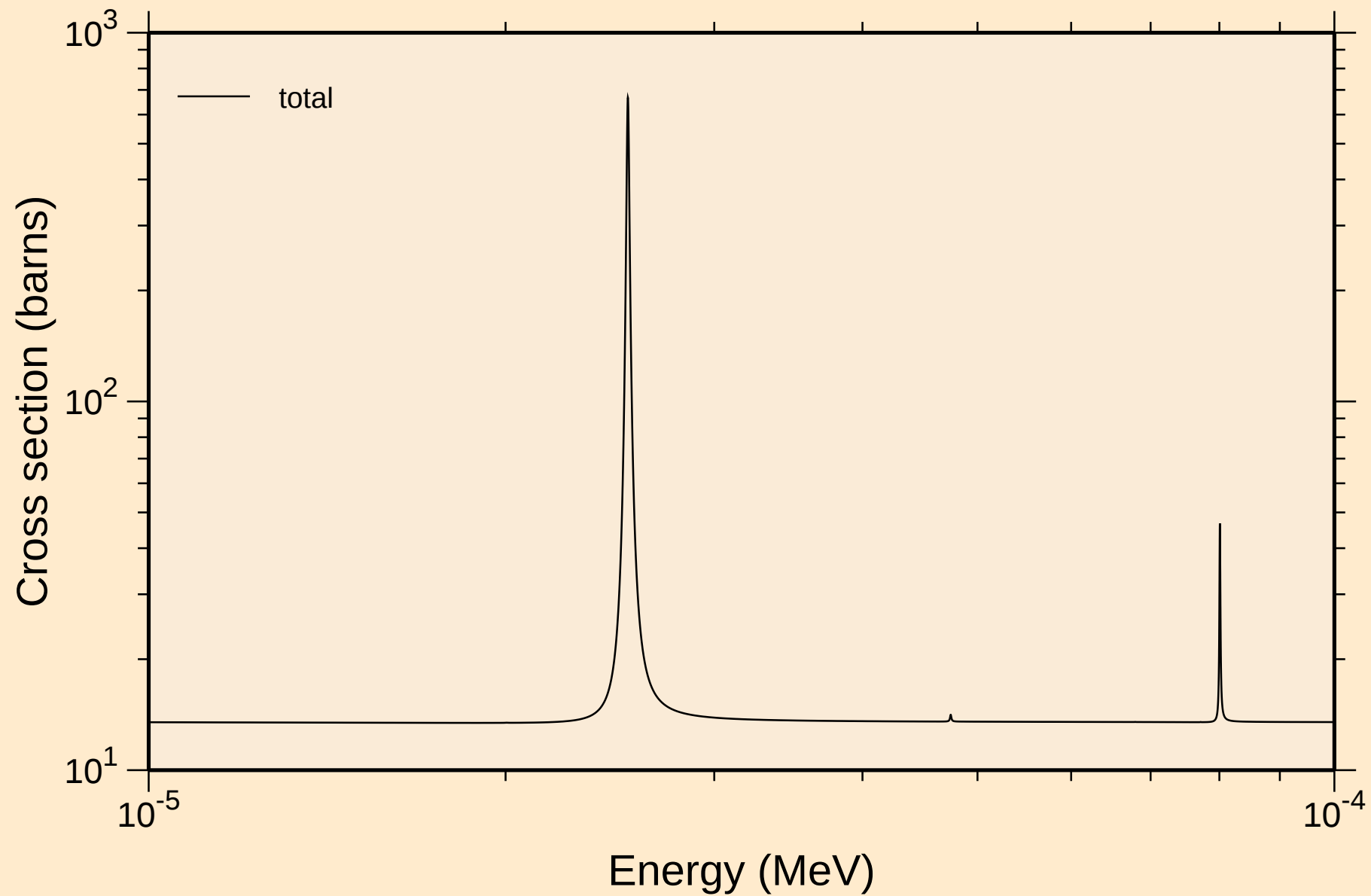
## Principal cross sections



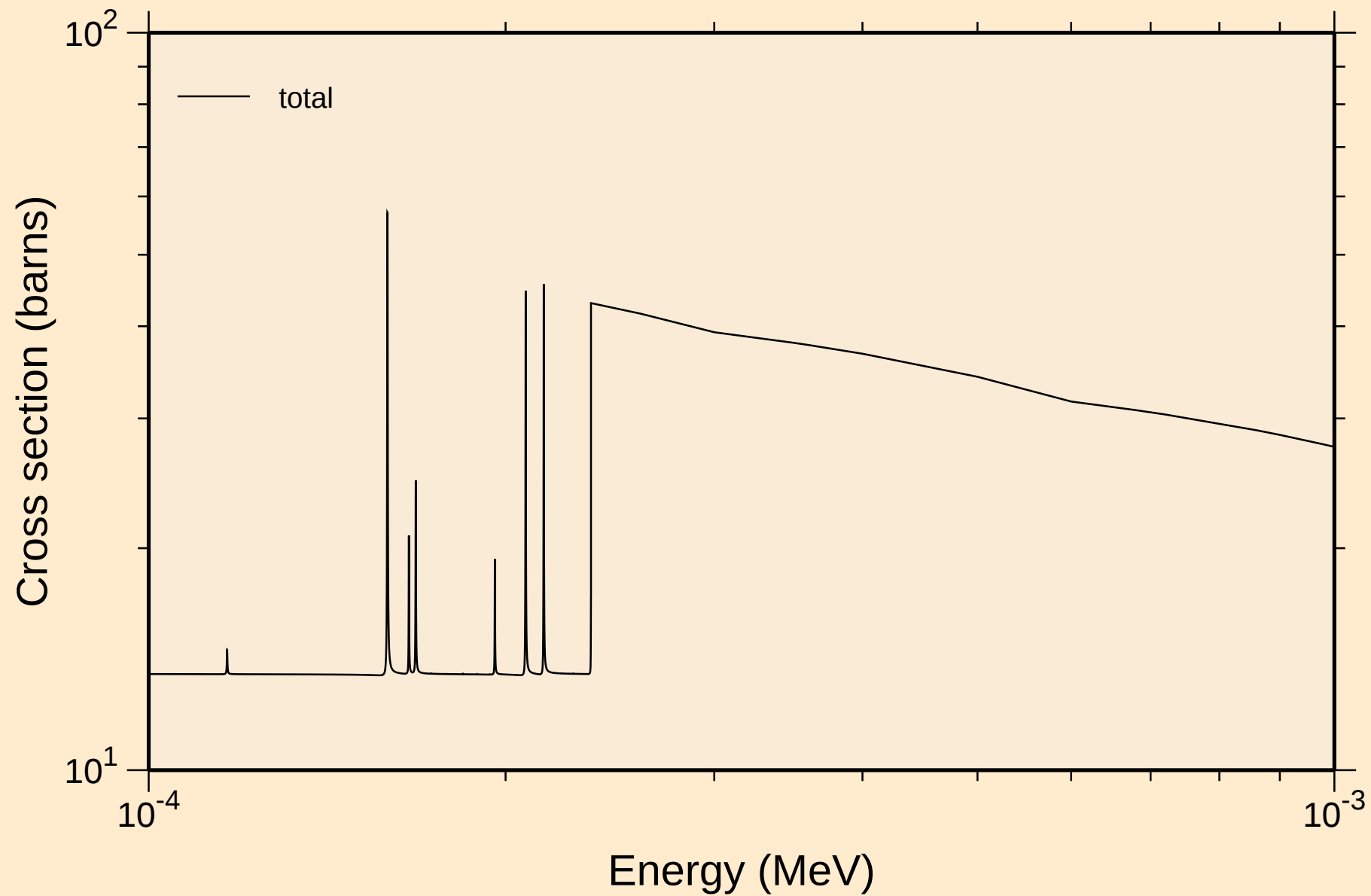
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



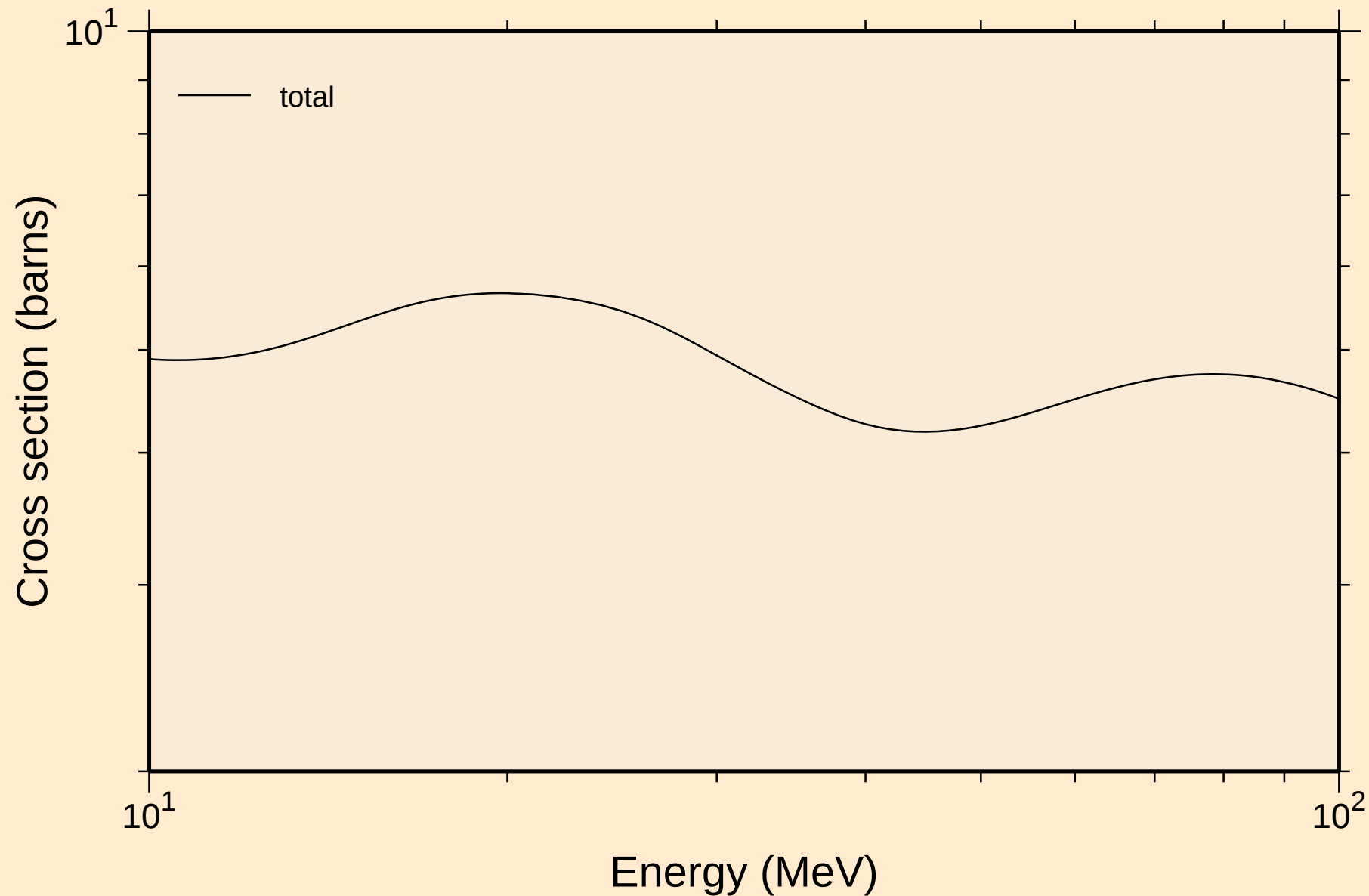
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



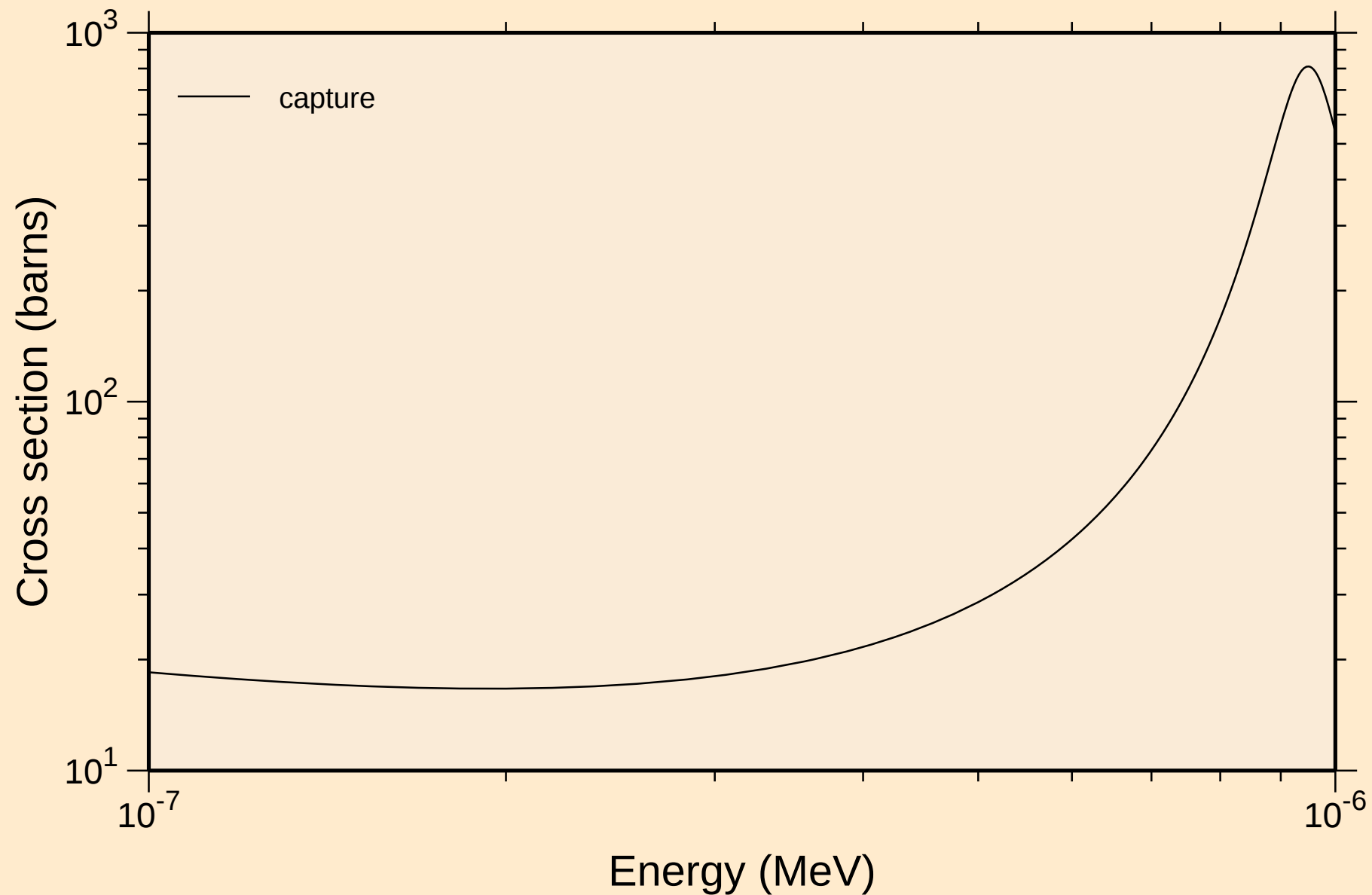
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



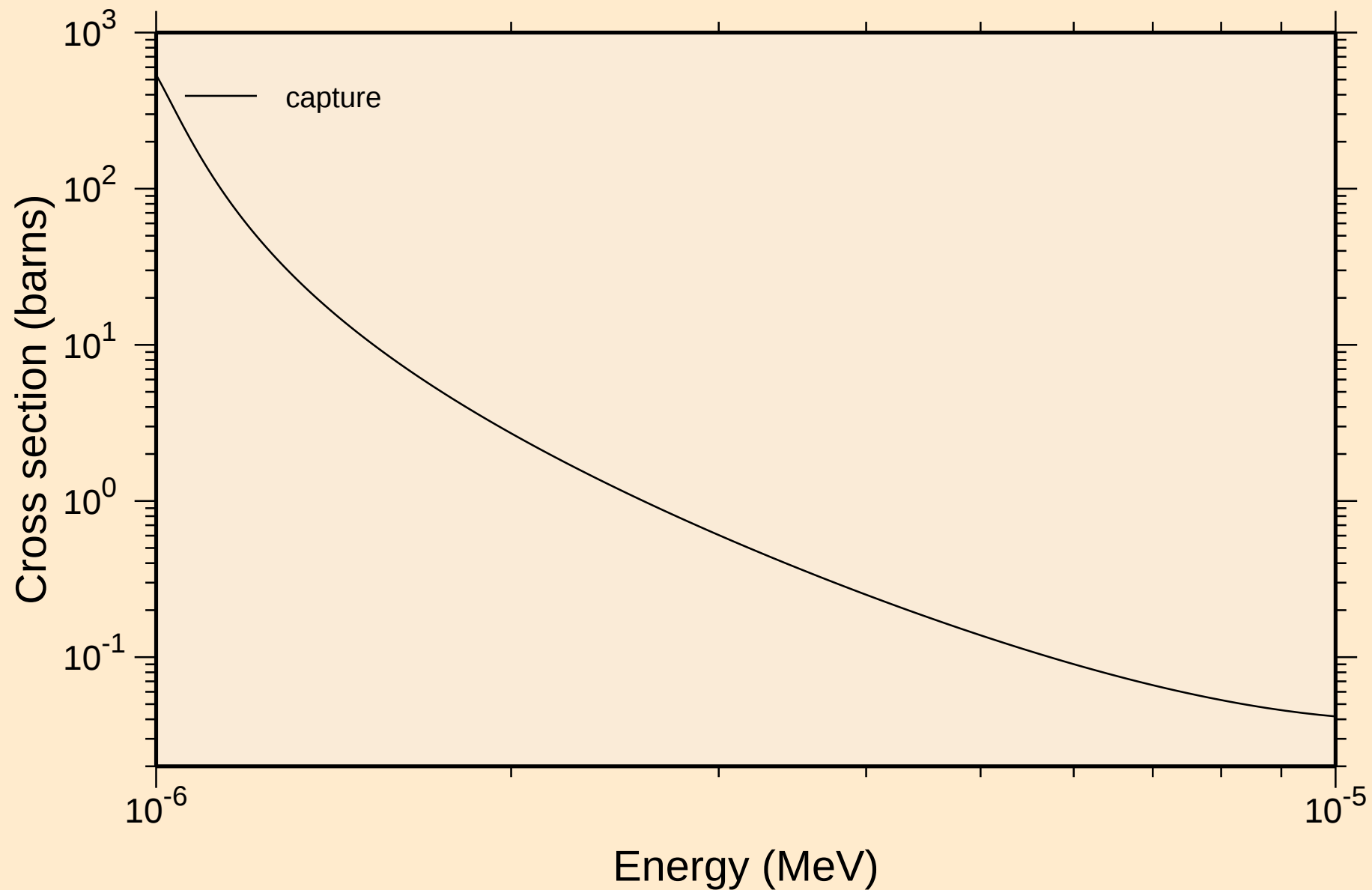
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



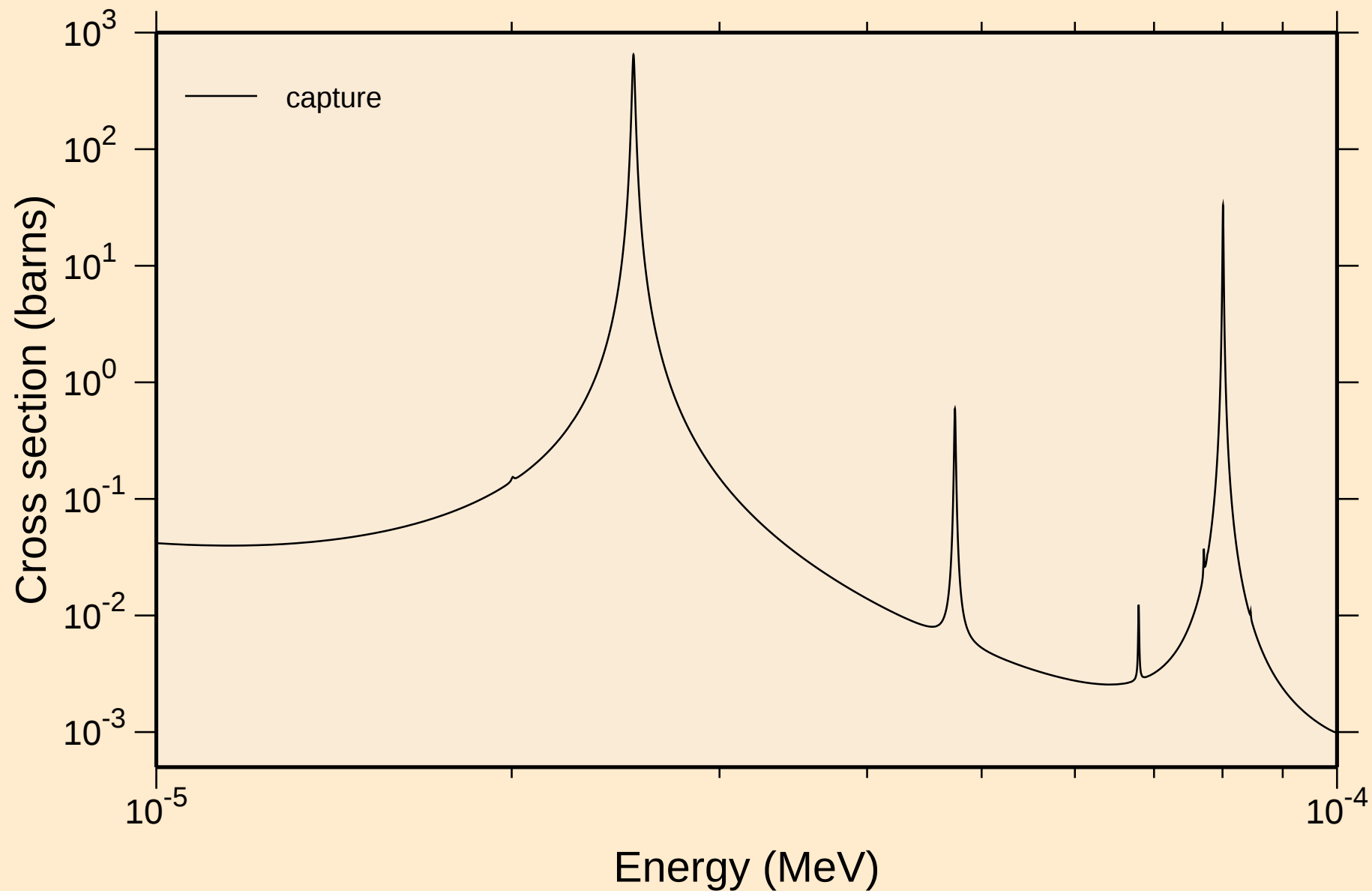
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



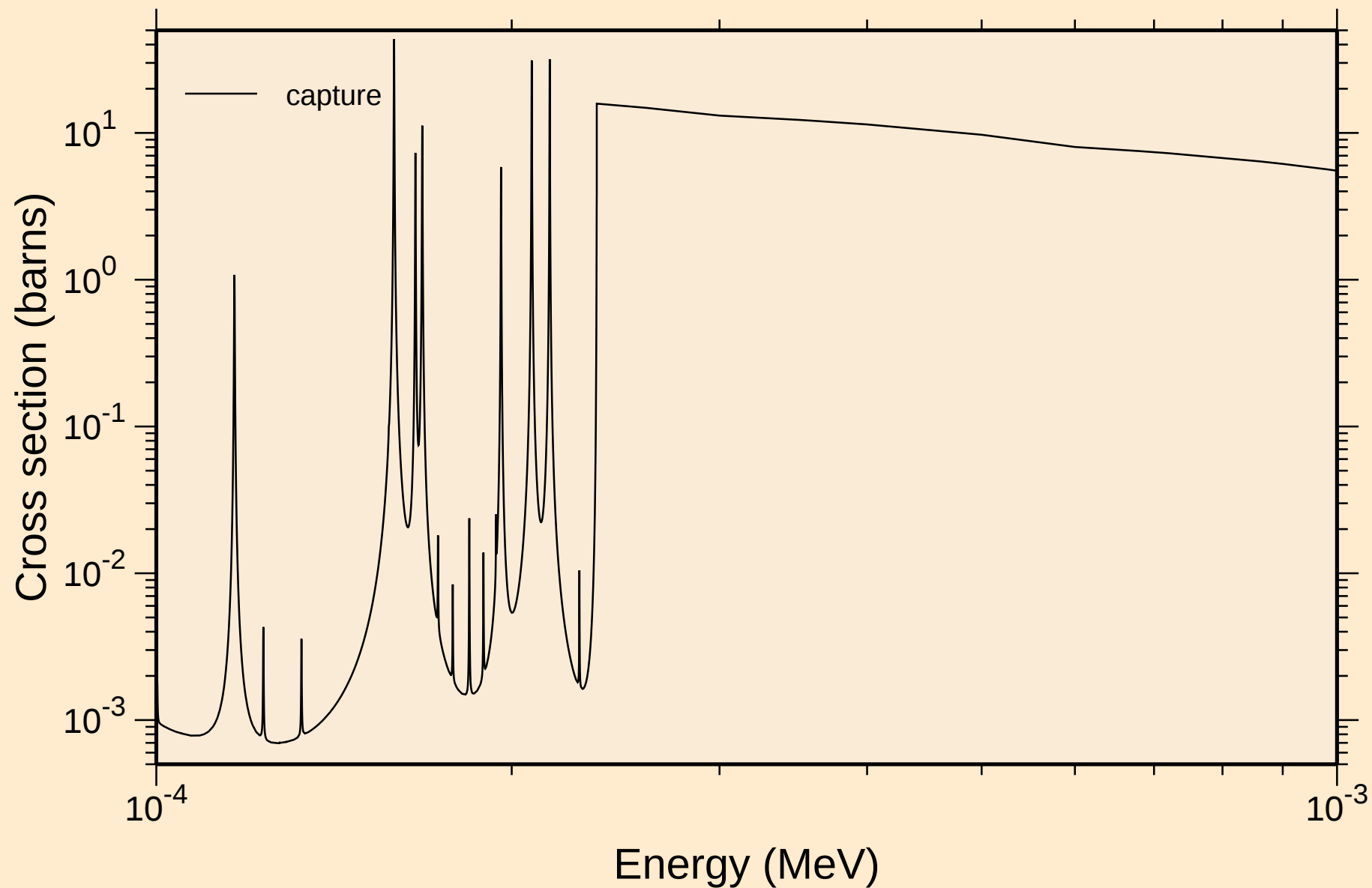
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



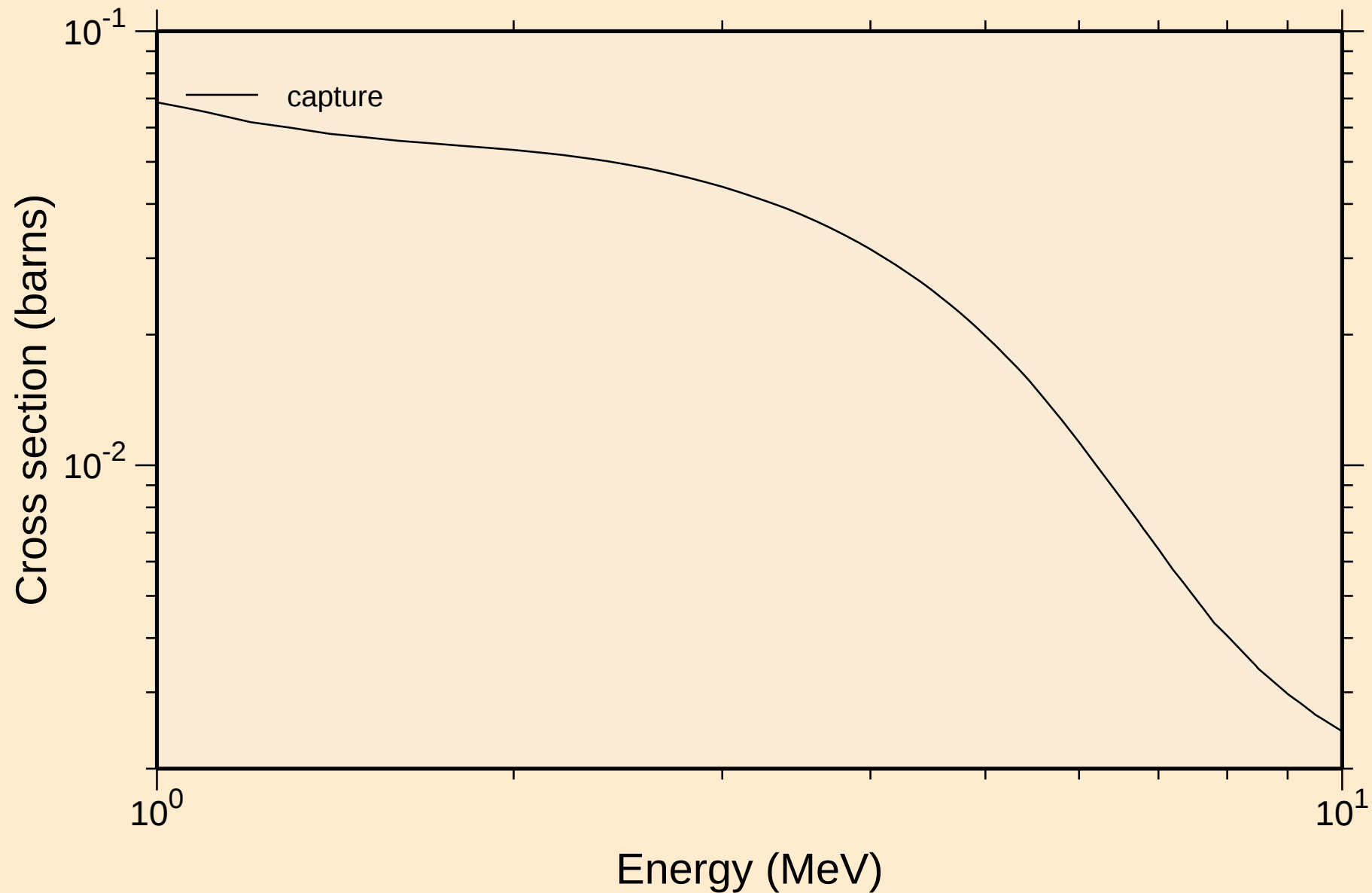
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

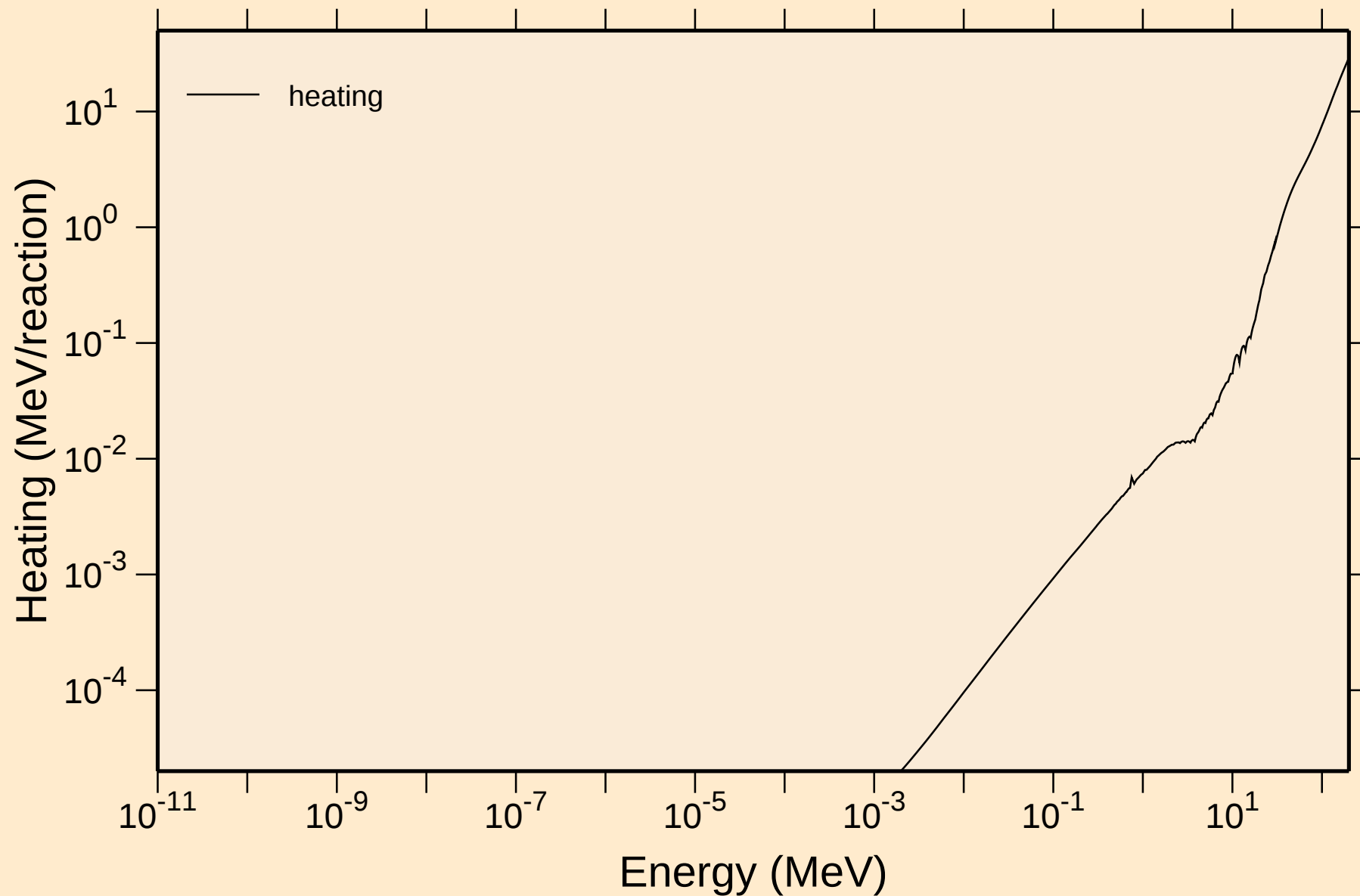


HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



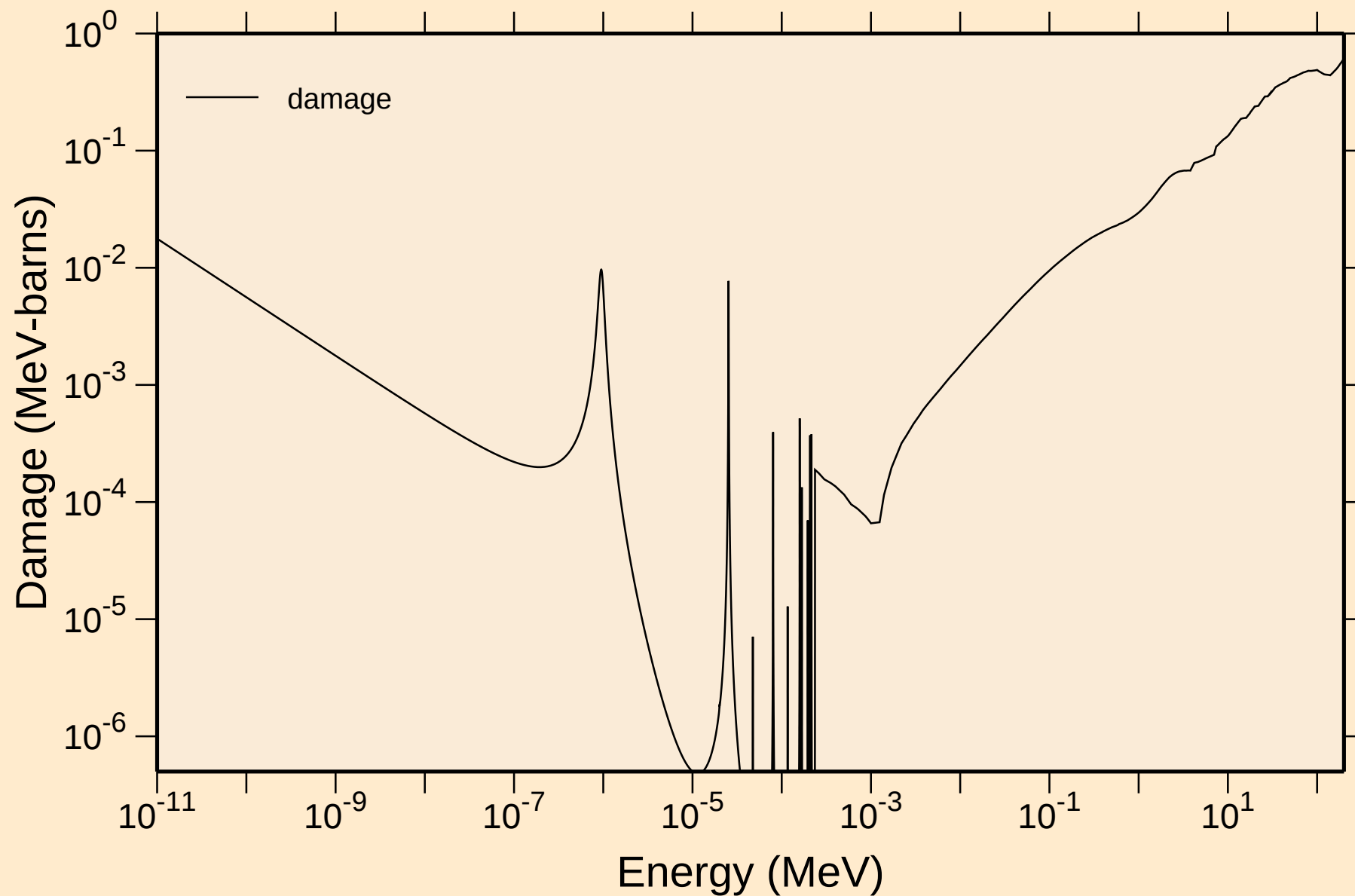
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Heating



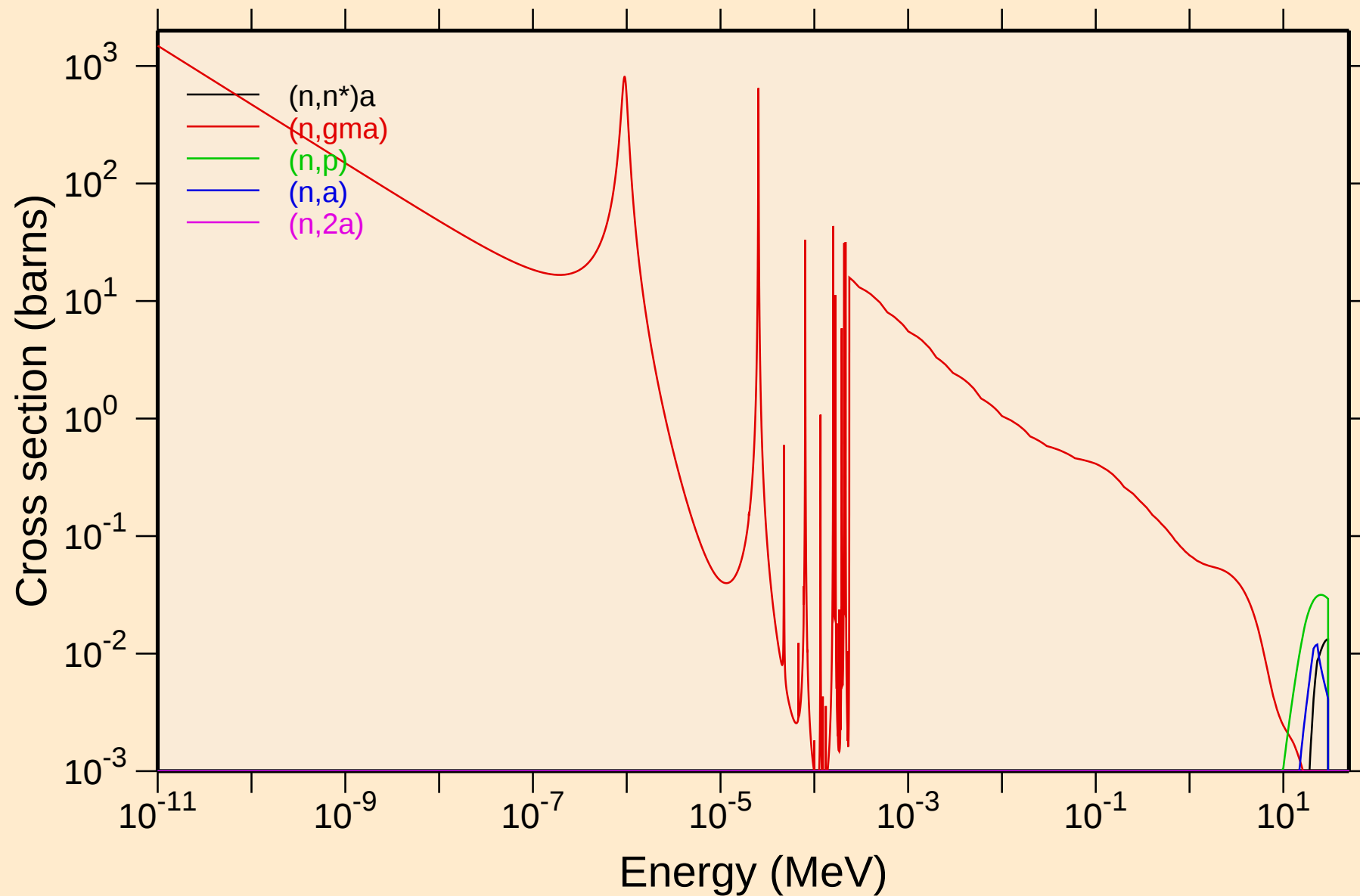
# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Damage



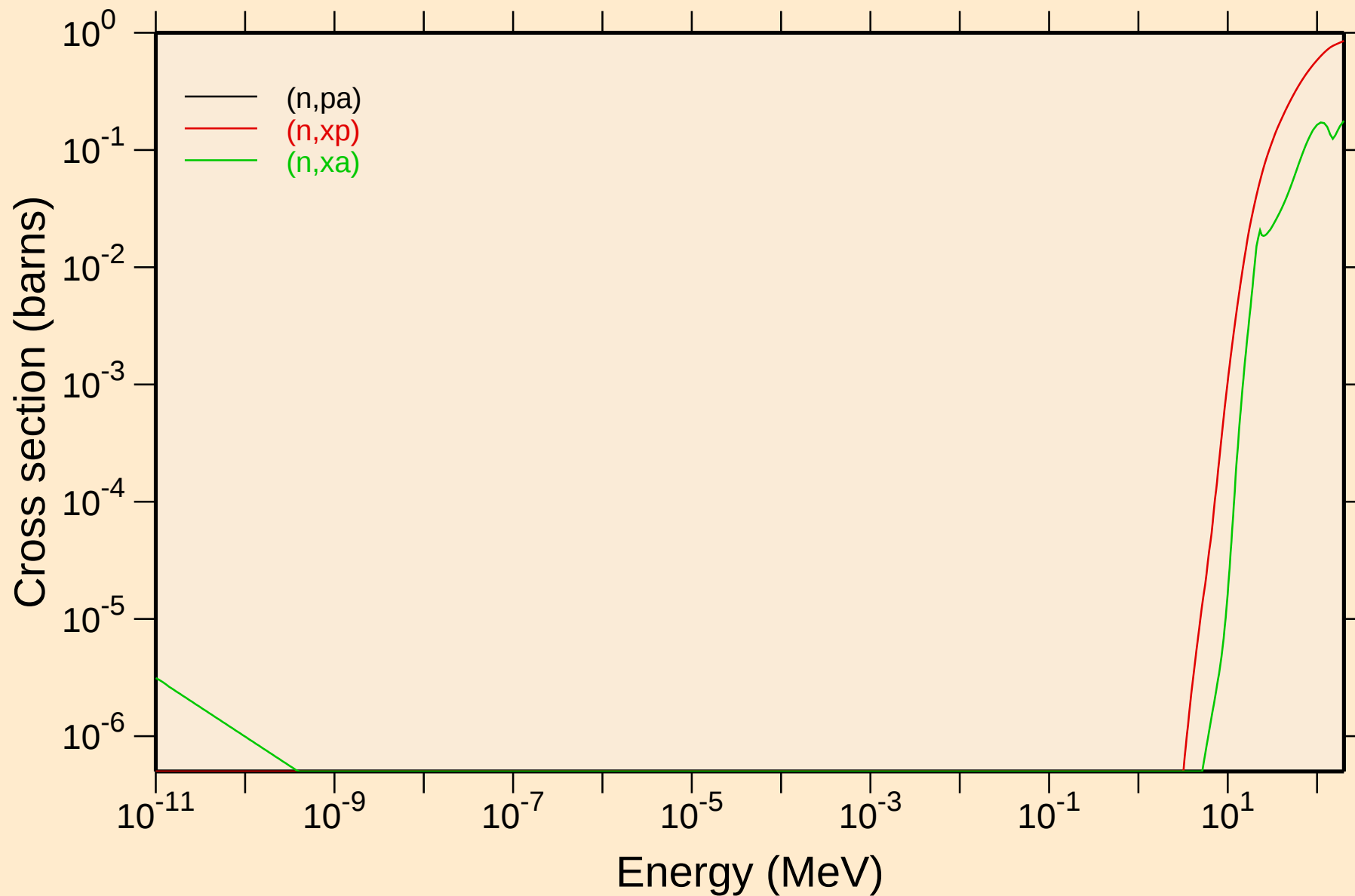
# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



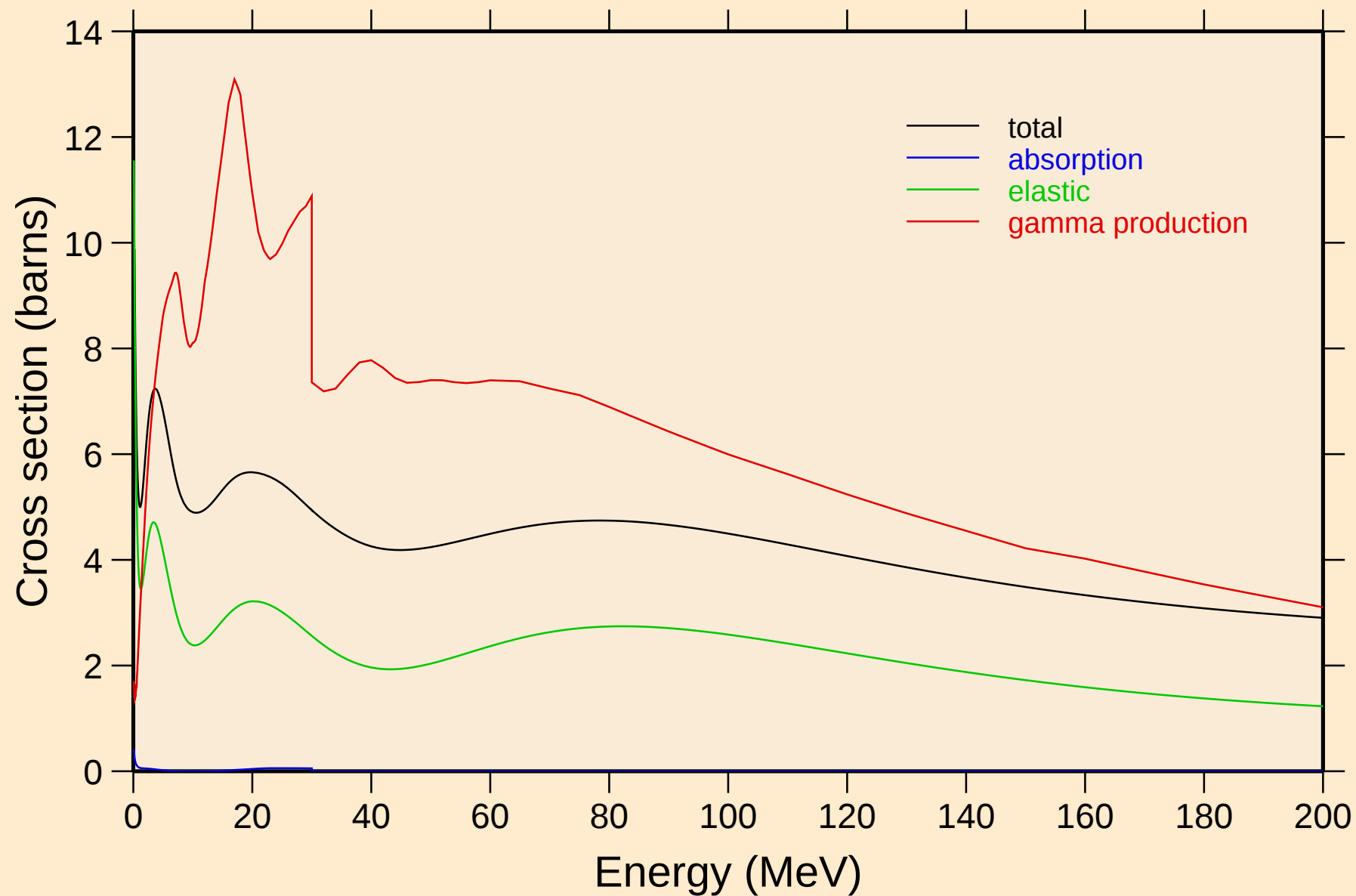
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## Non-threshold reactions



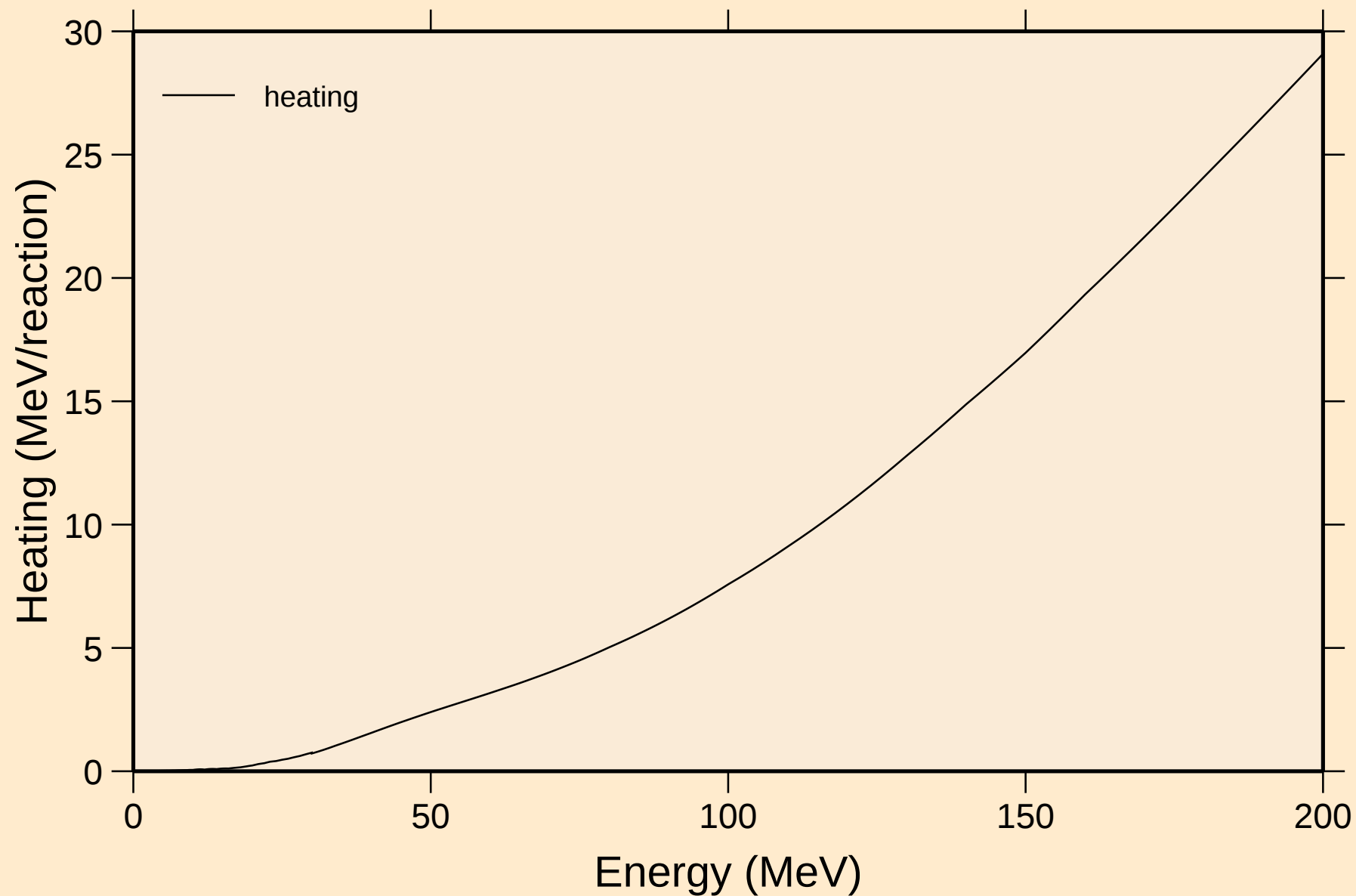
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## Principal cross sections



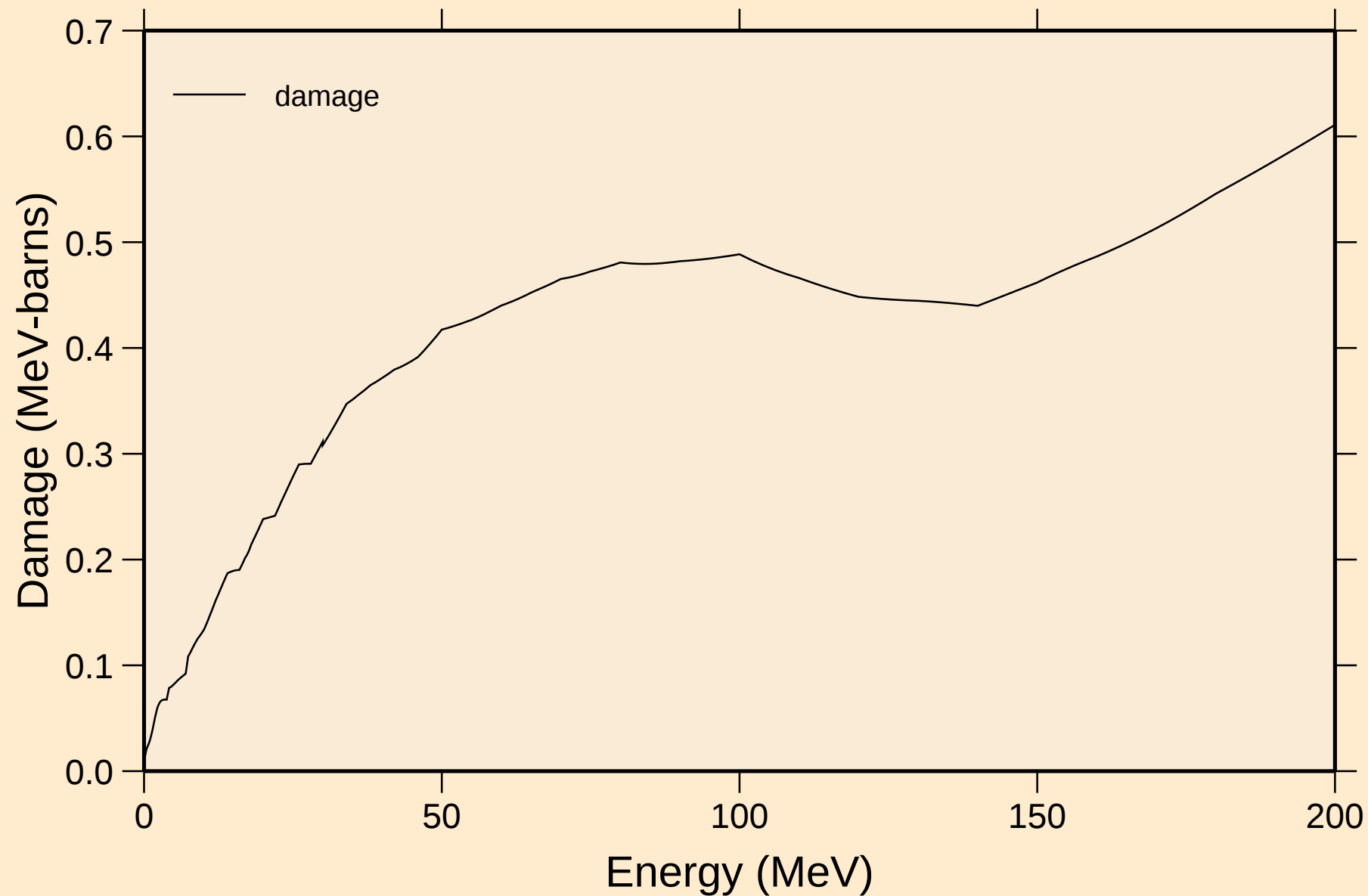
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Heating

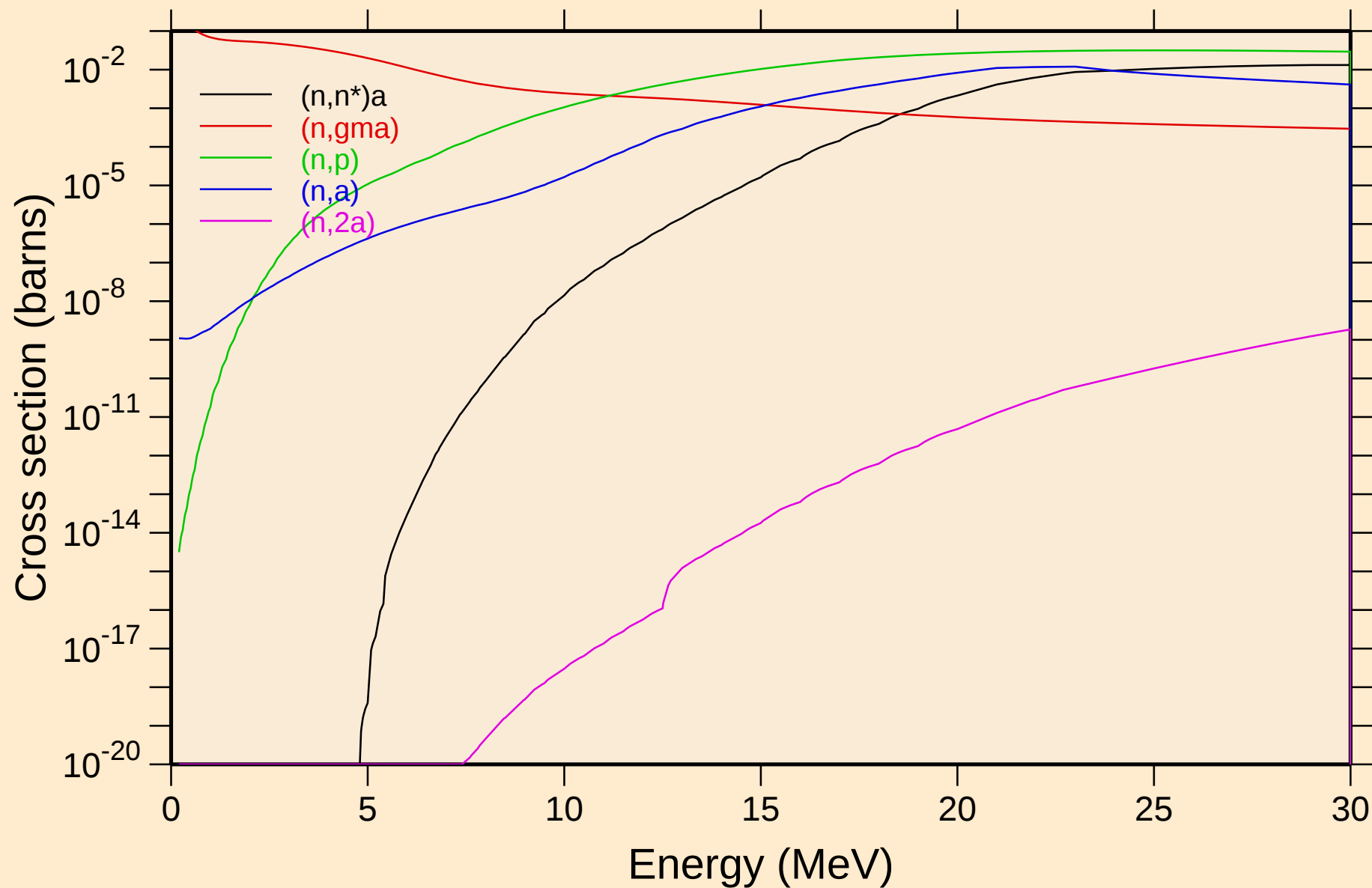


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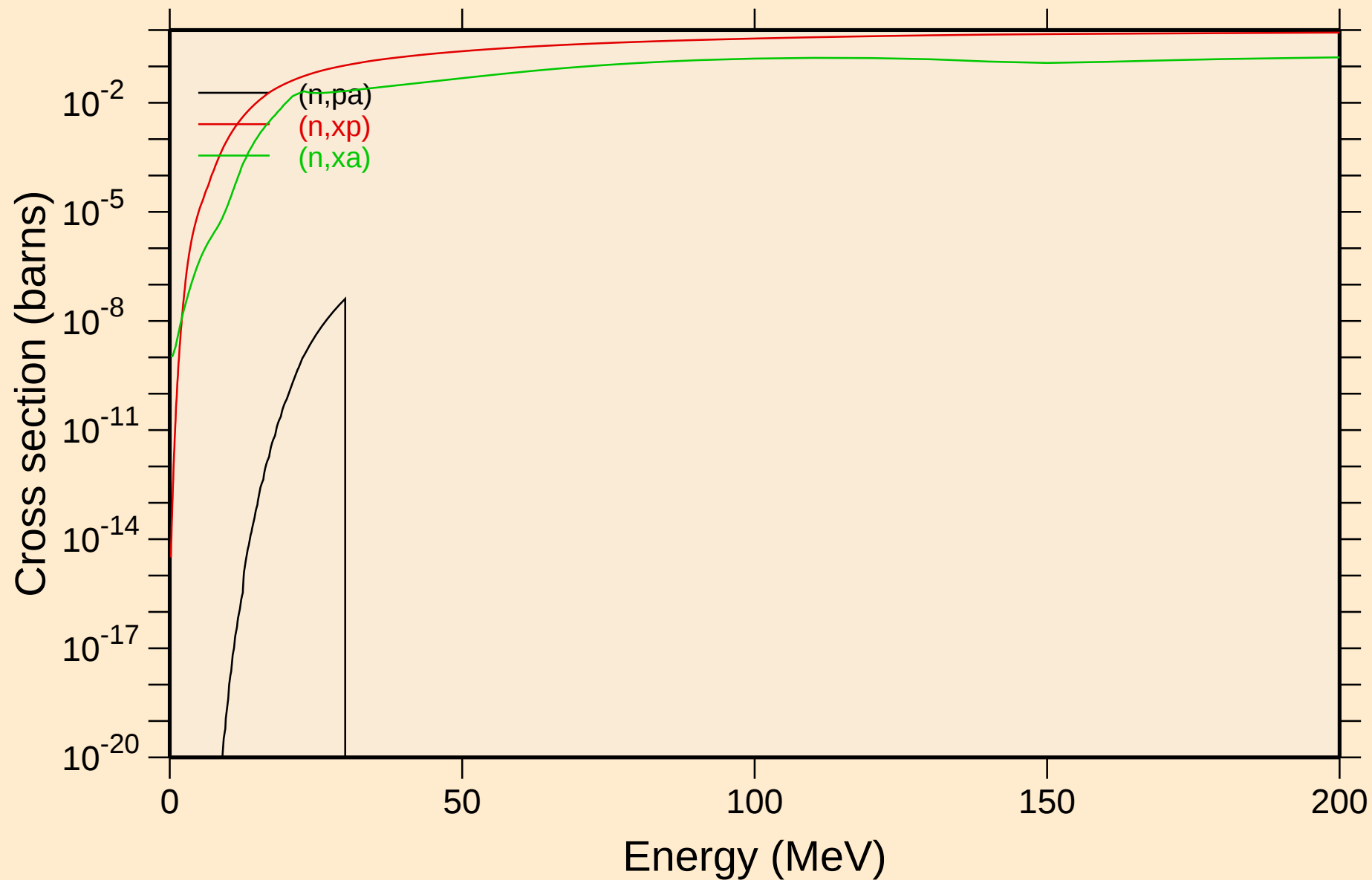
Damage



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

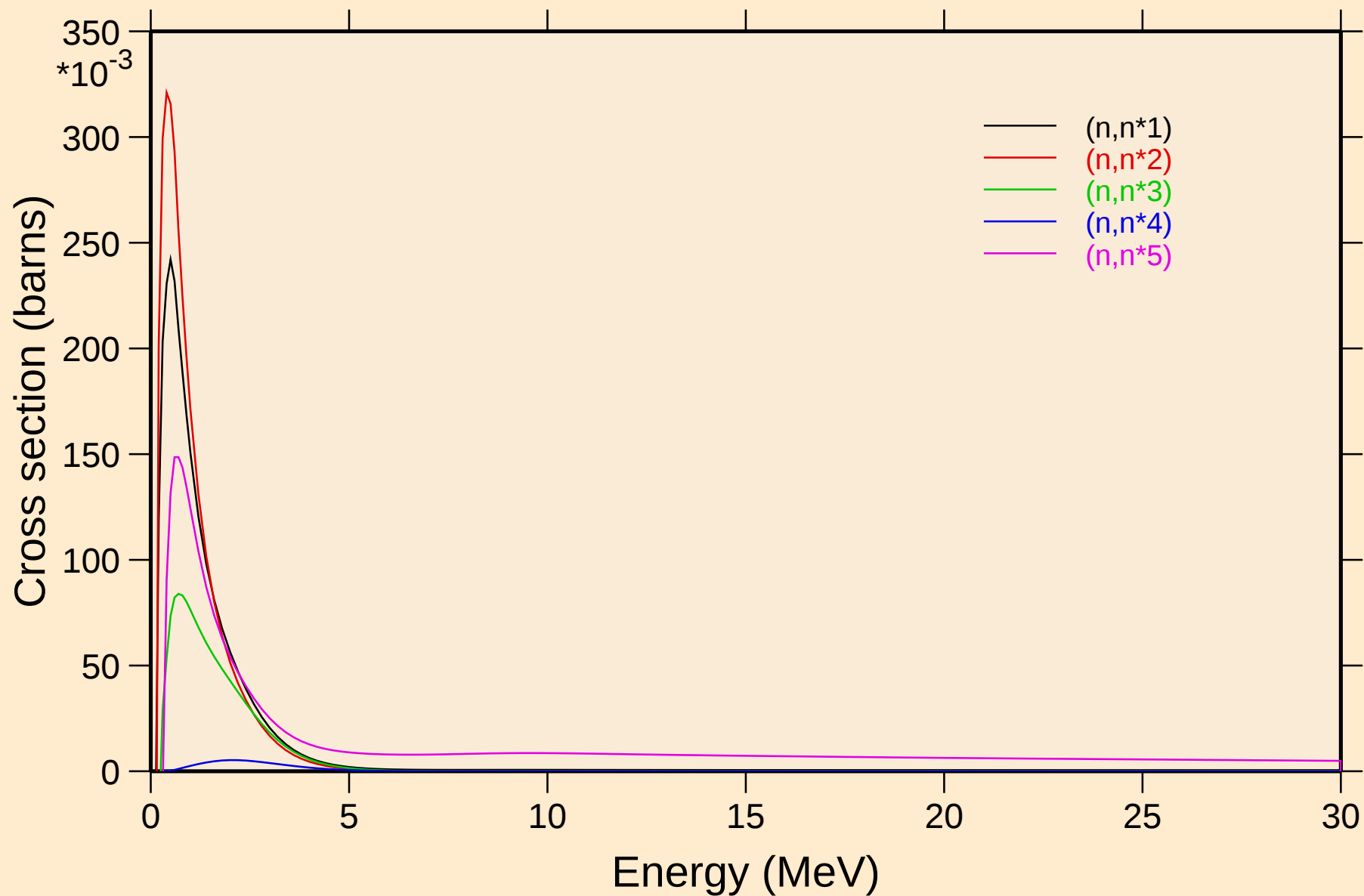


HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



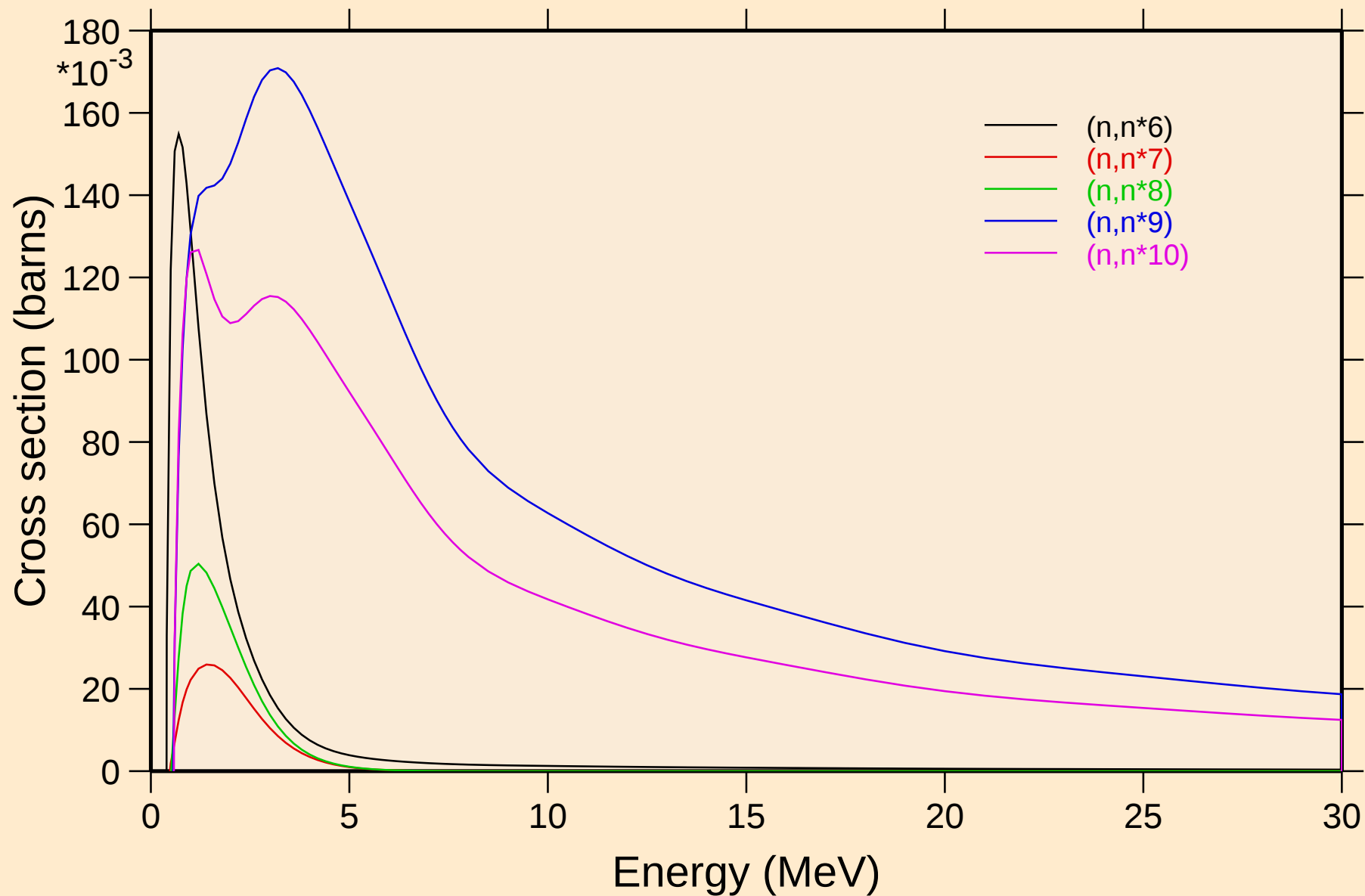
# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



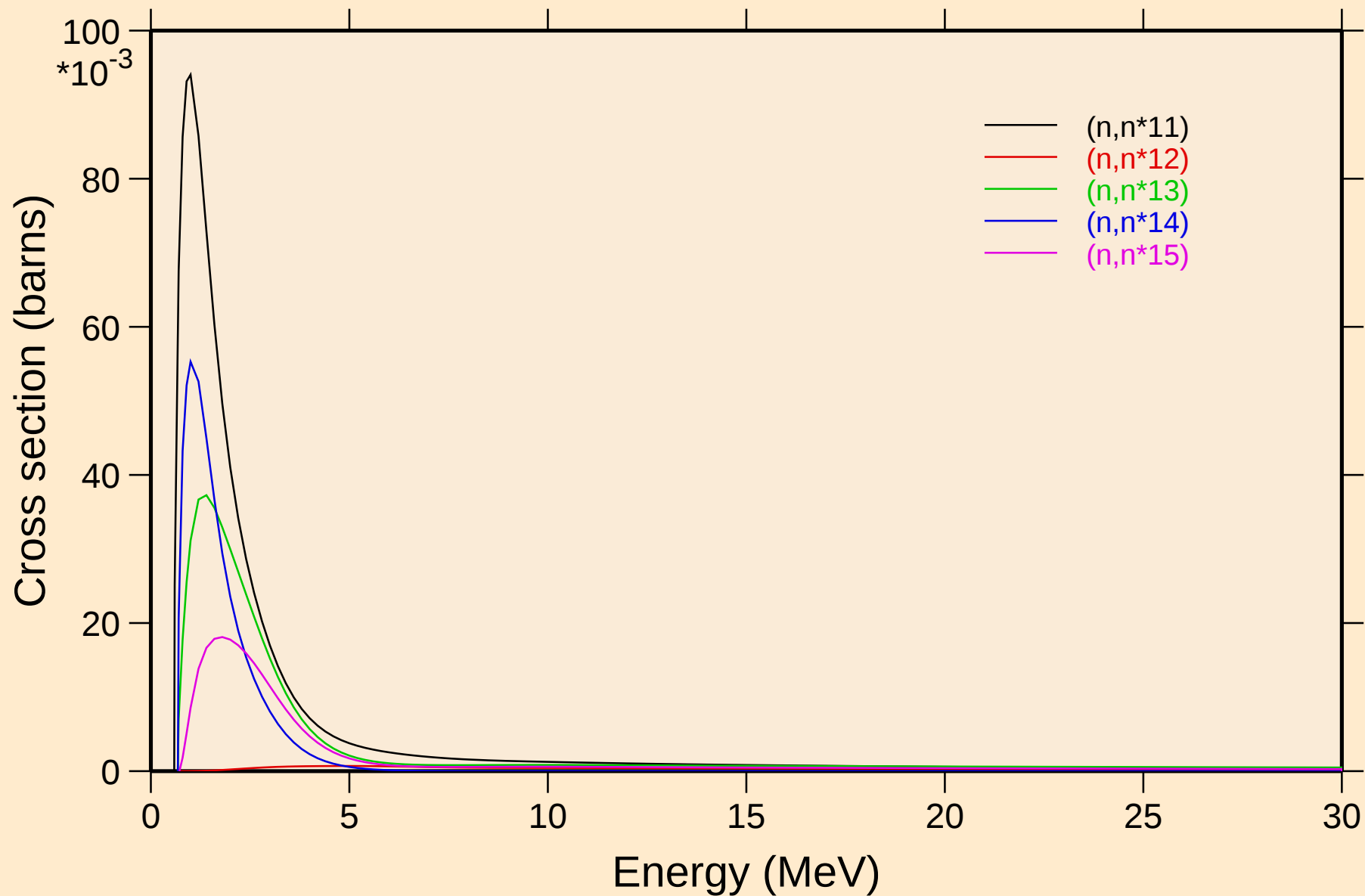
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## Inelastic levels



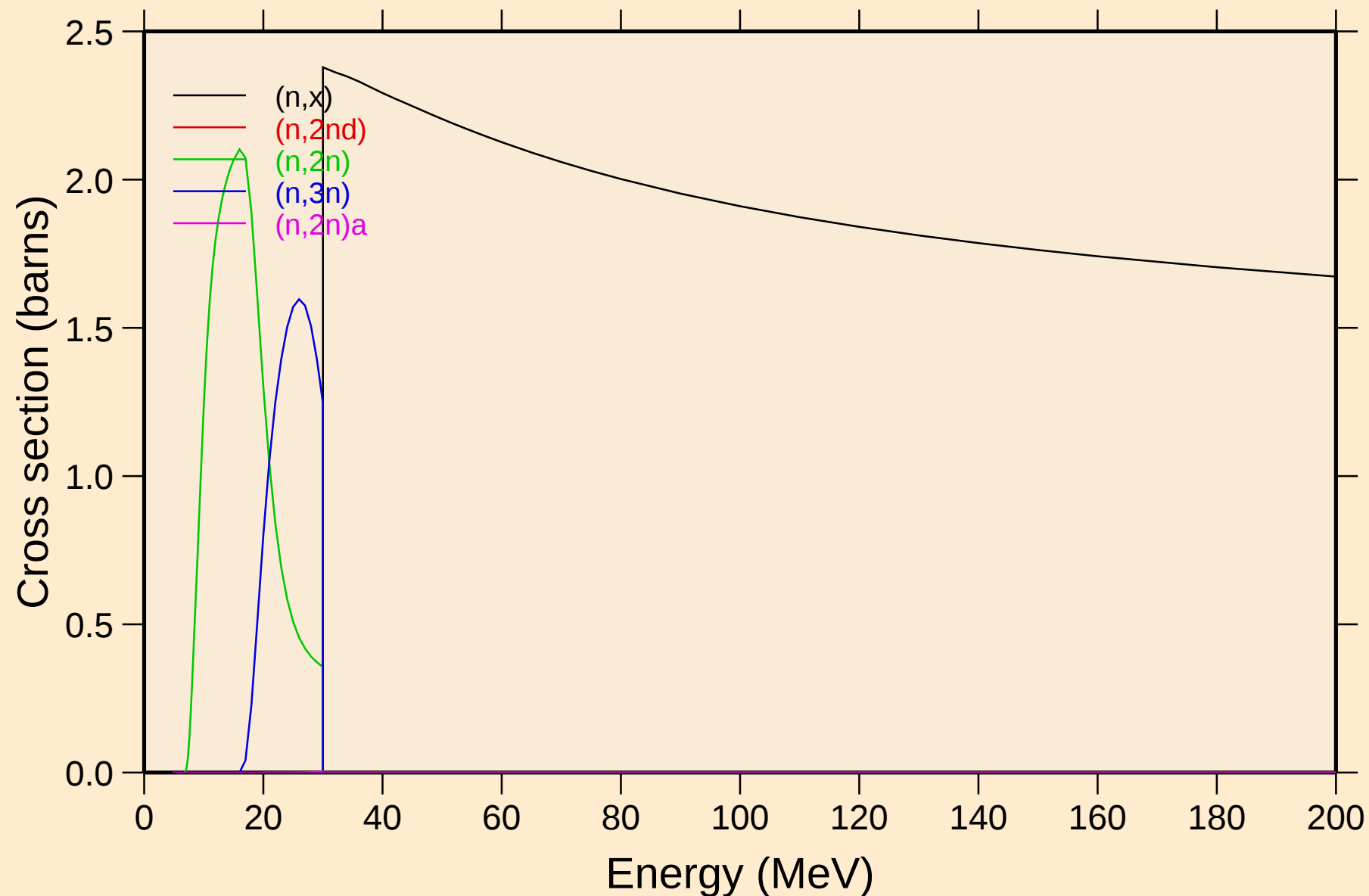
# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Inelastic levels



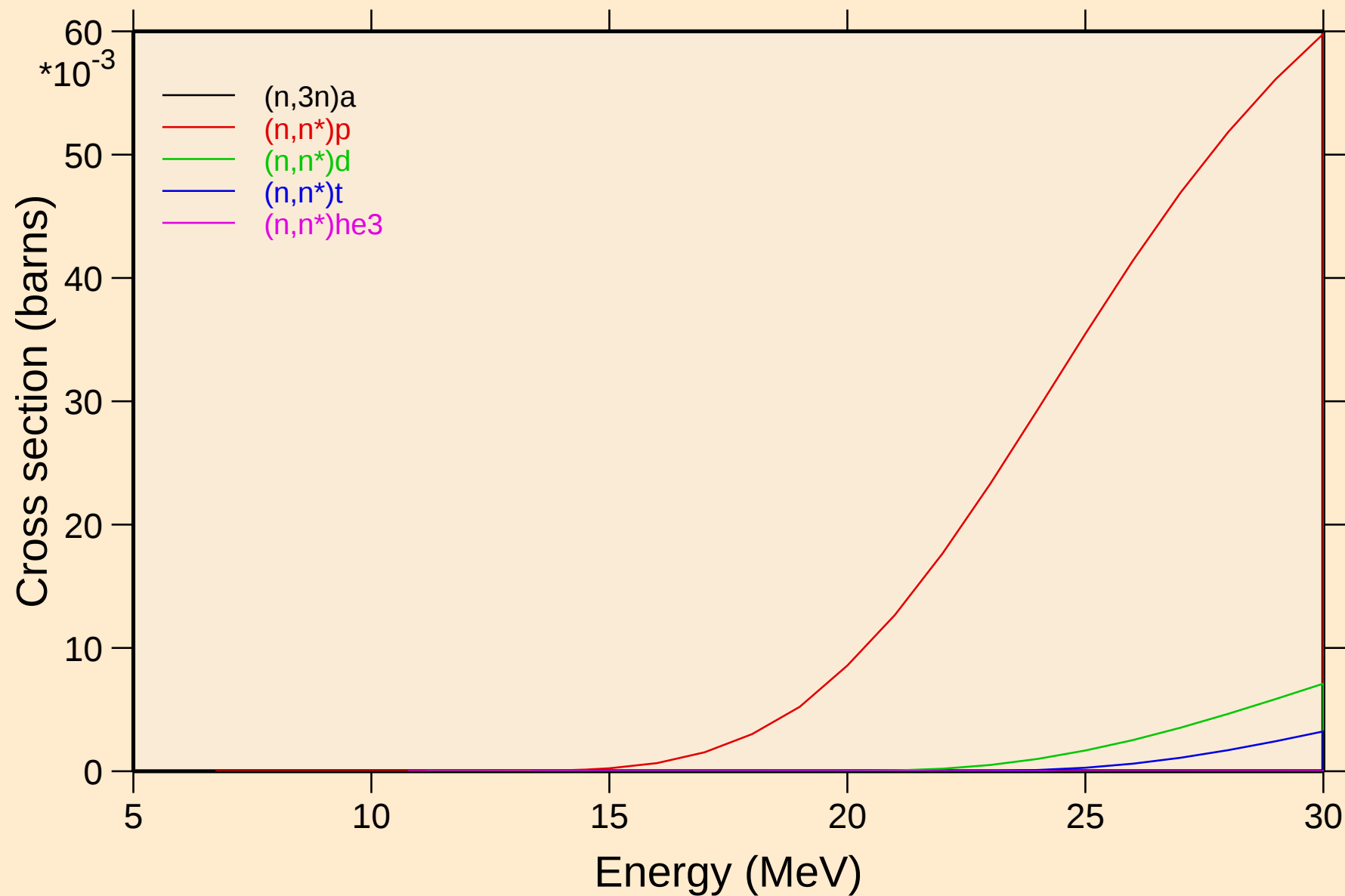
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## Threshold reactions



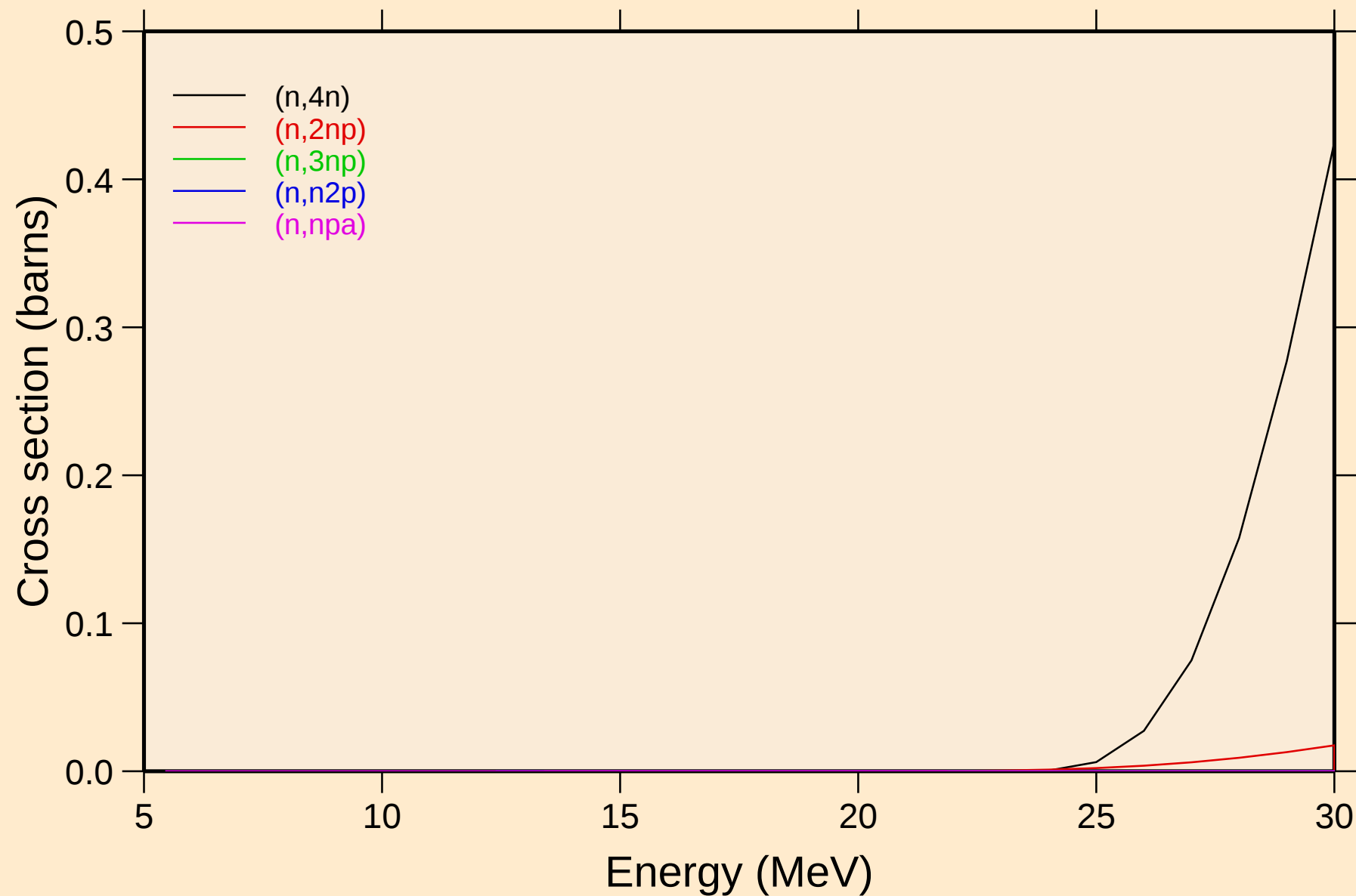
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## Threshold reactions



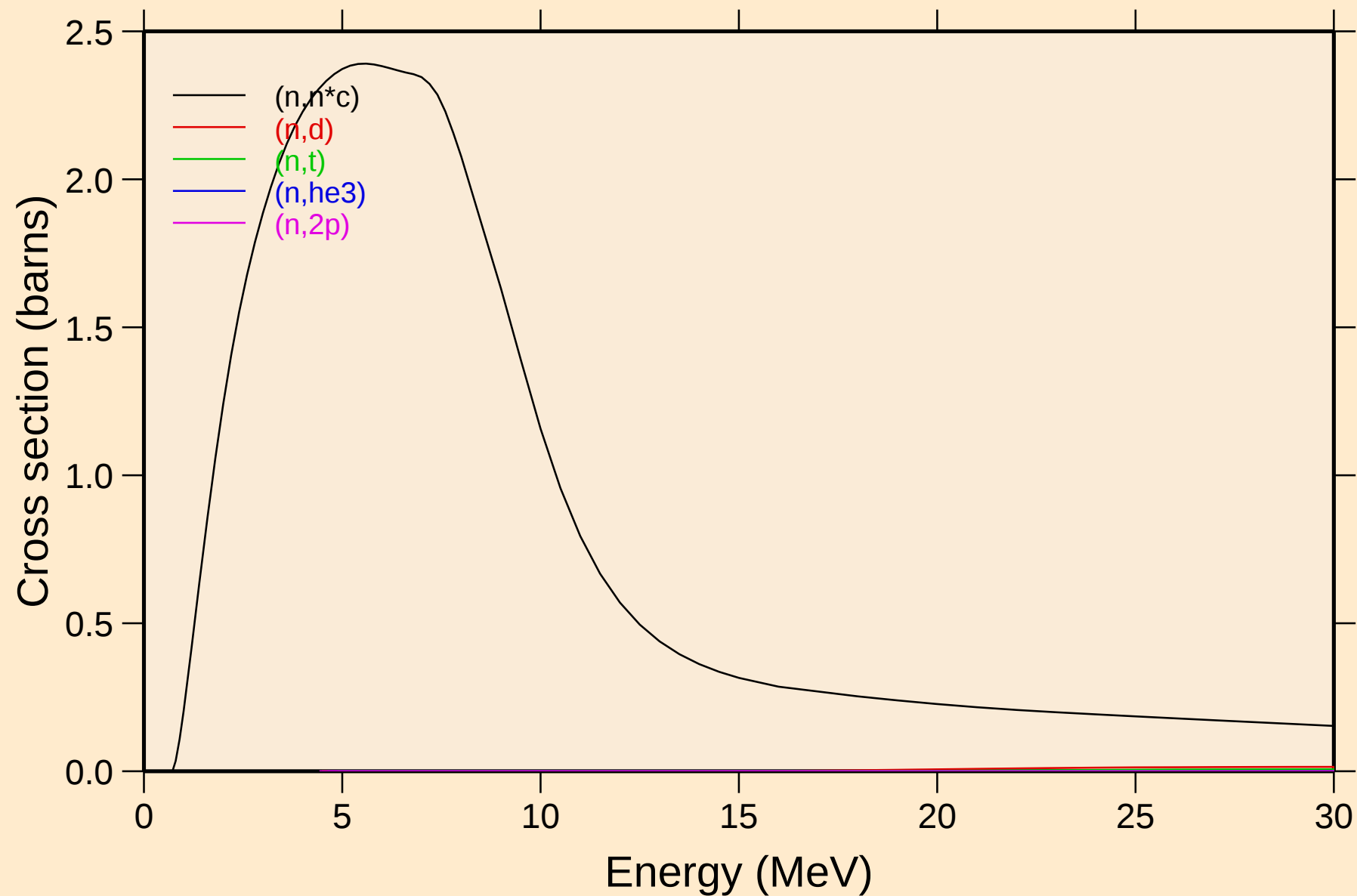
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Threshold reactions



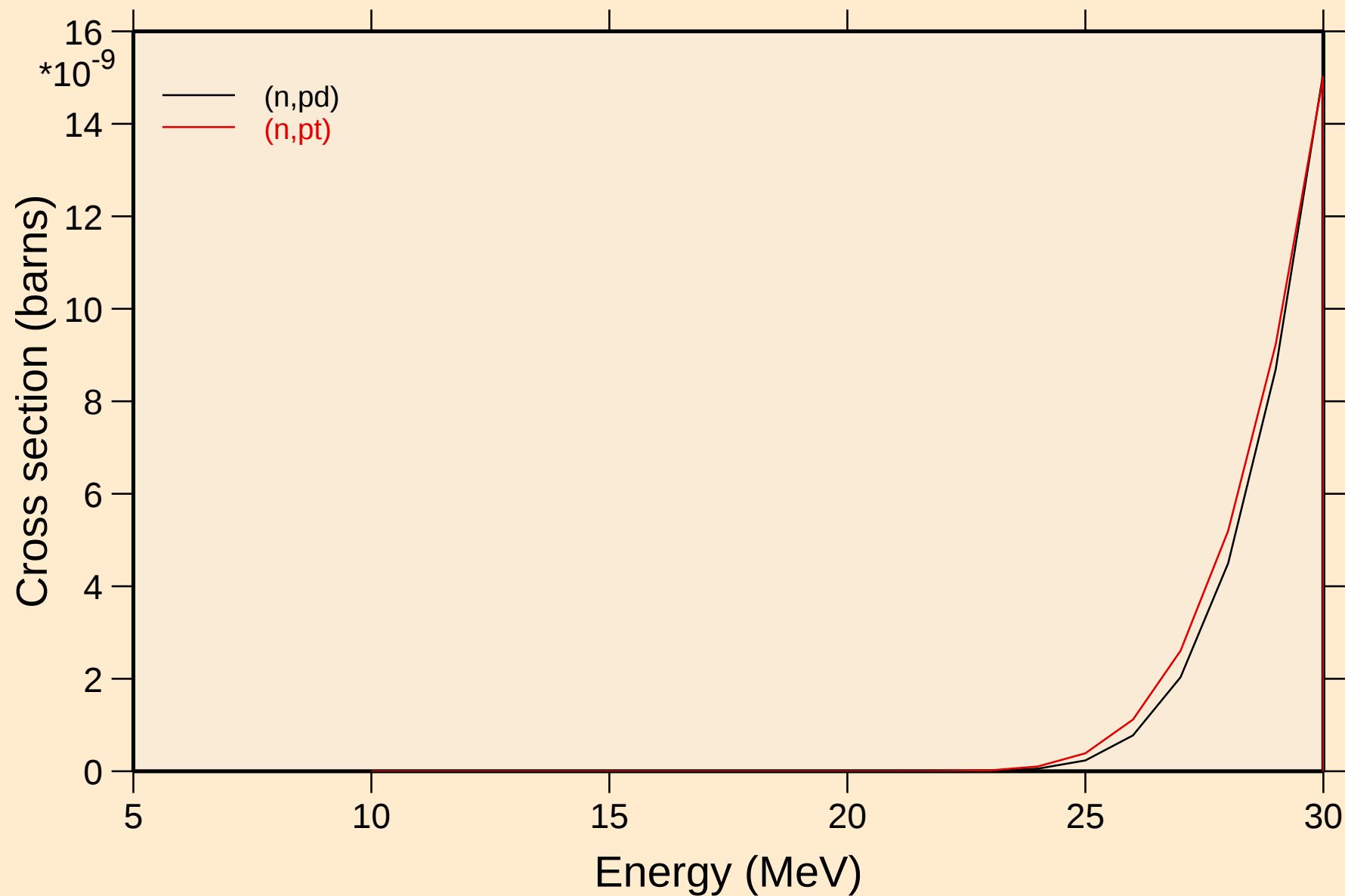
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## Threshold reactions



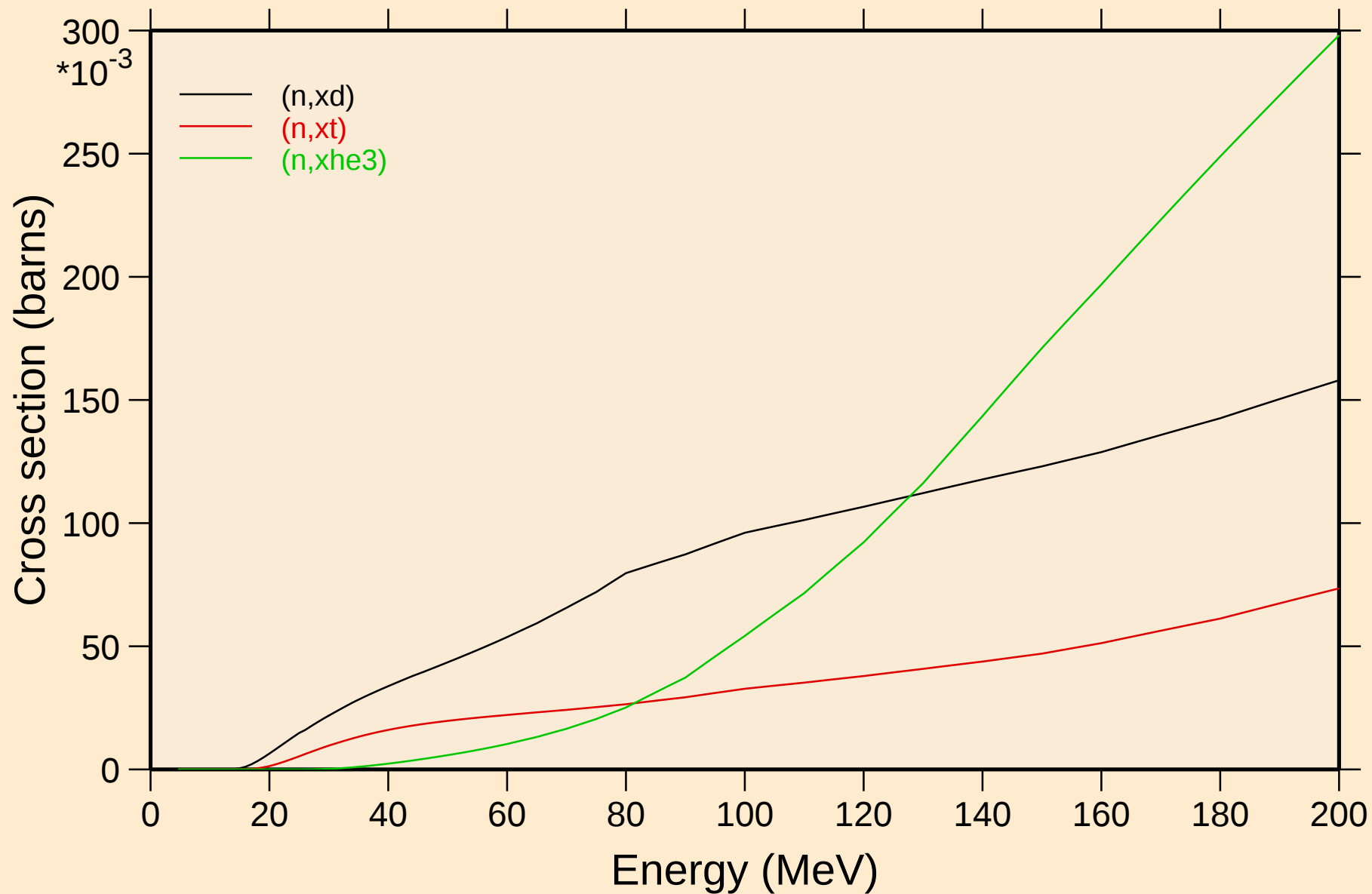
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Threshold reactions

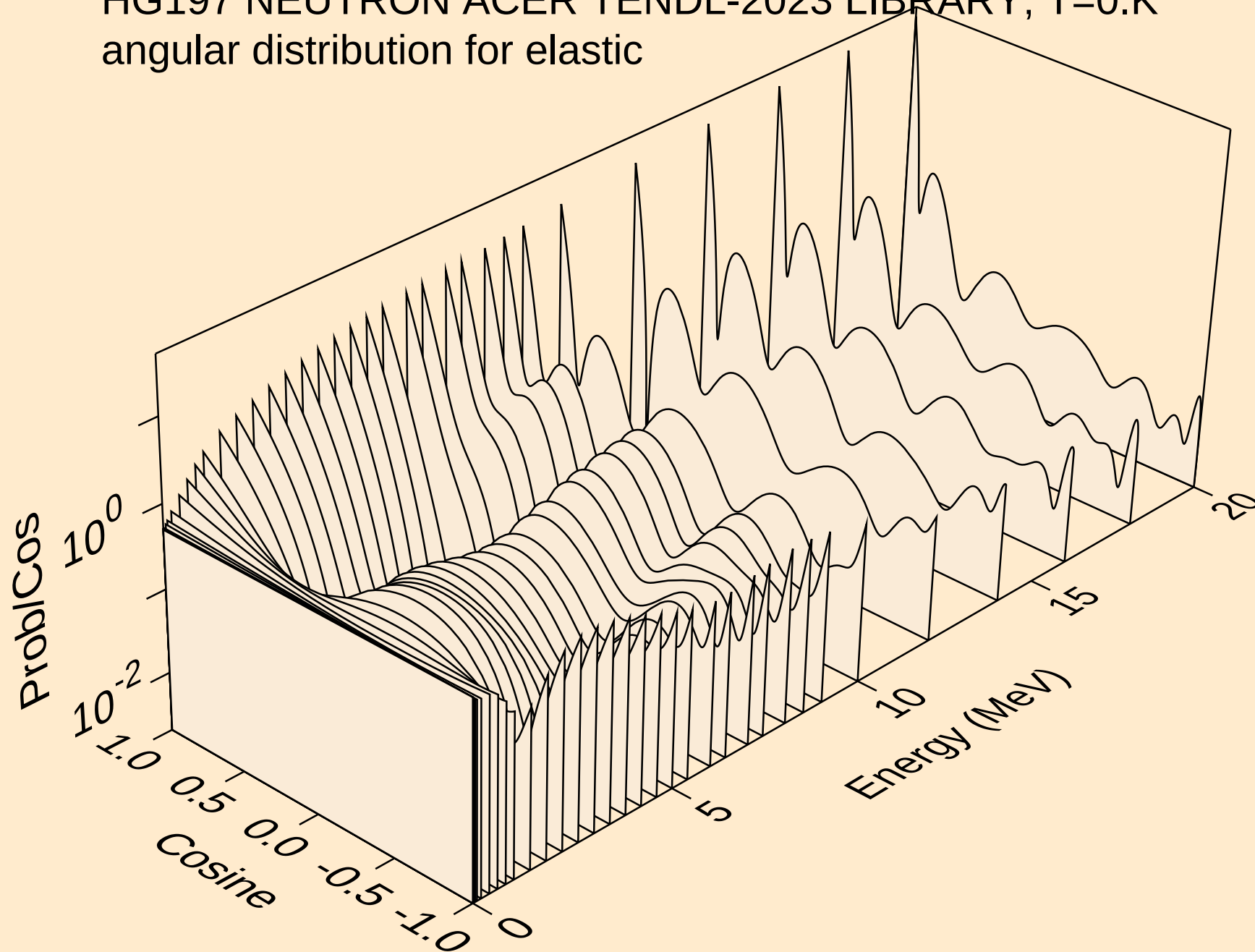


# HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

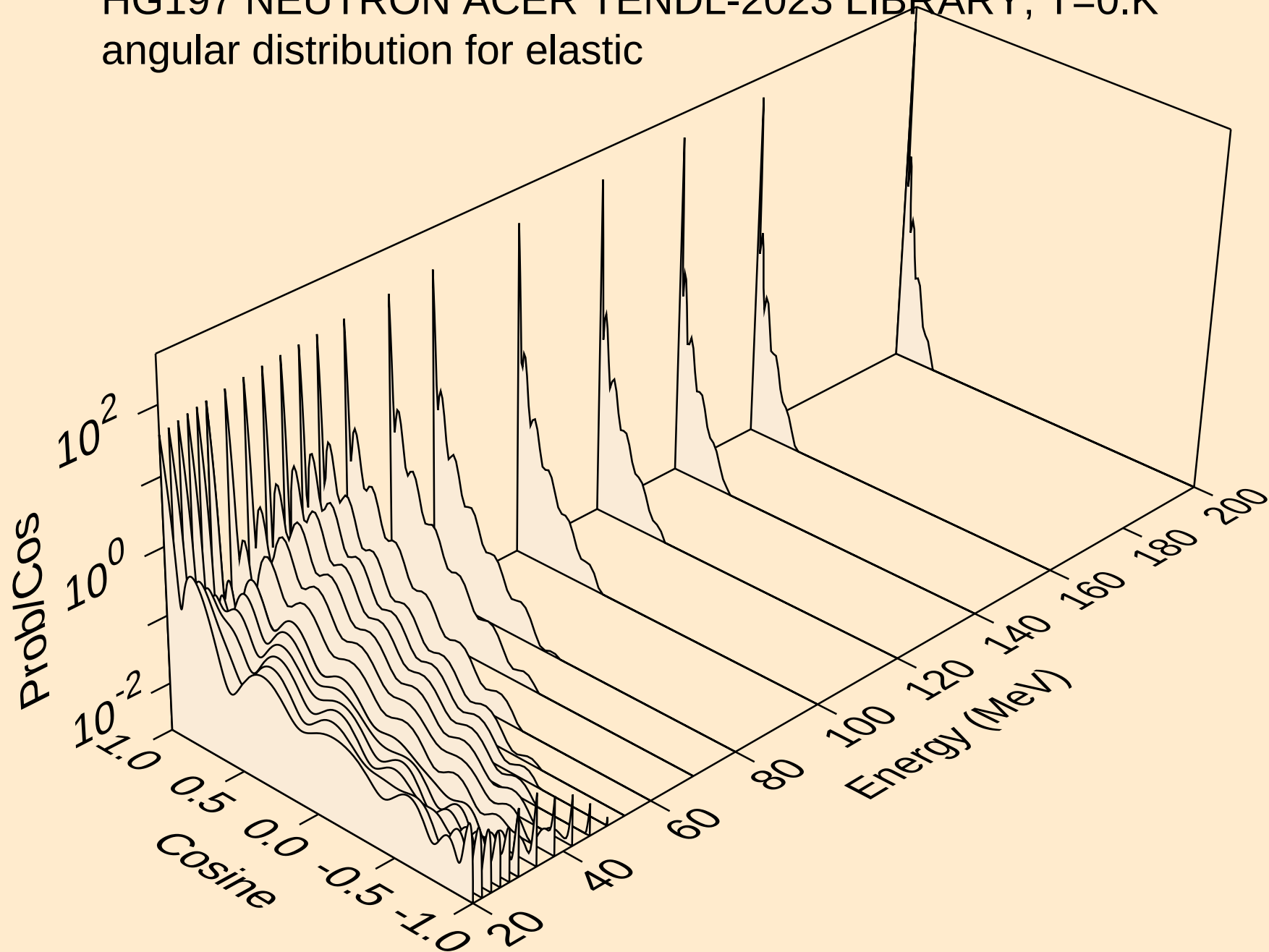
## Threshold reactions



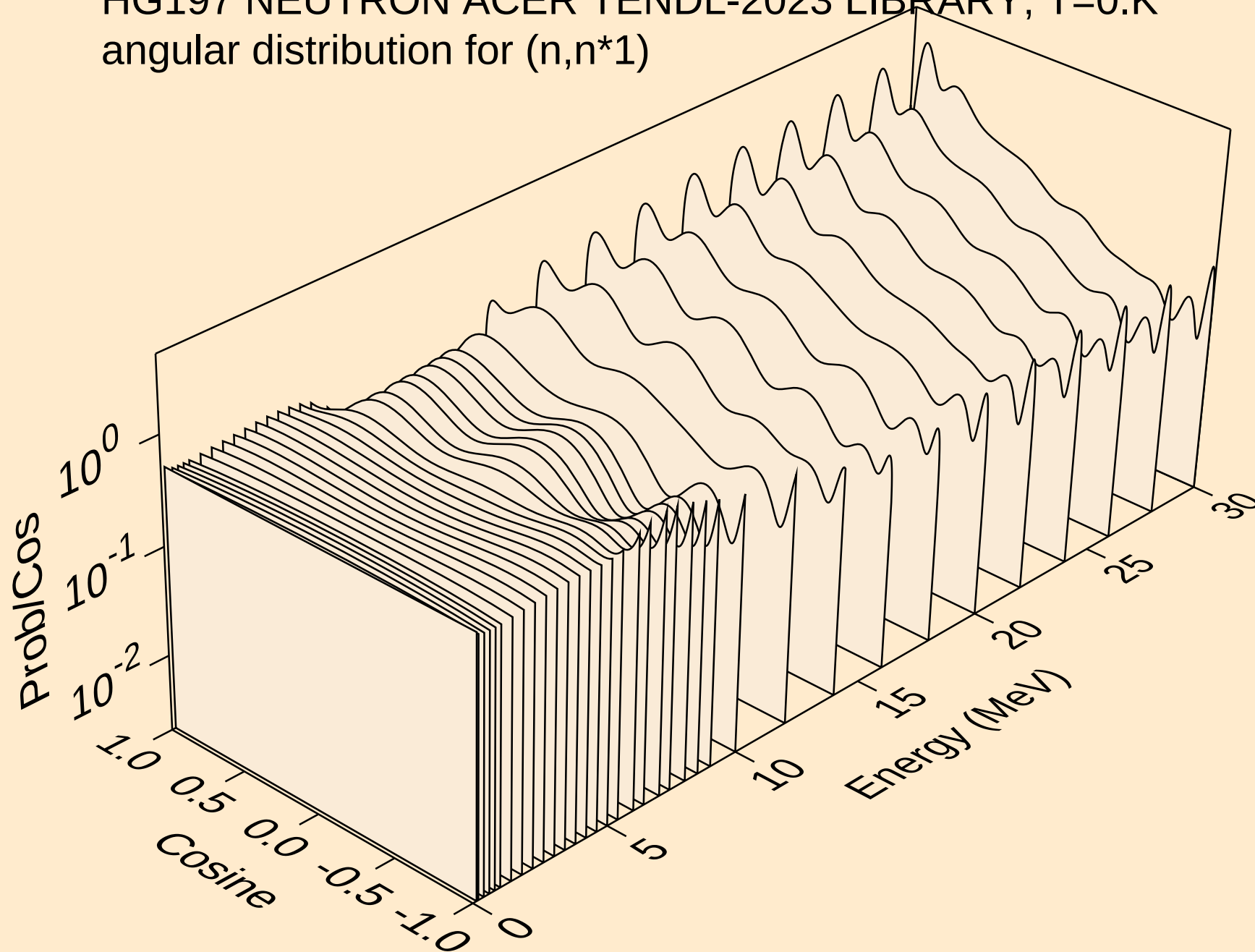
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



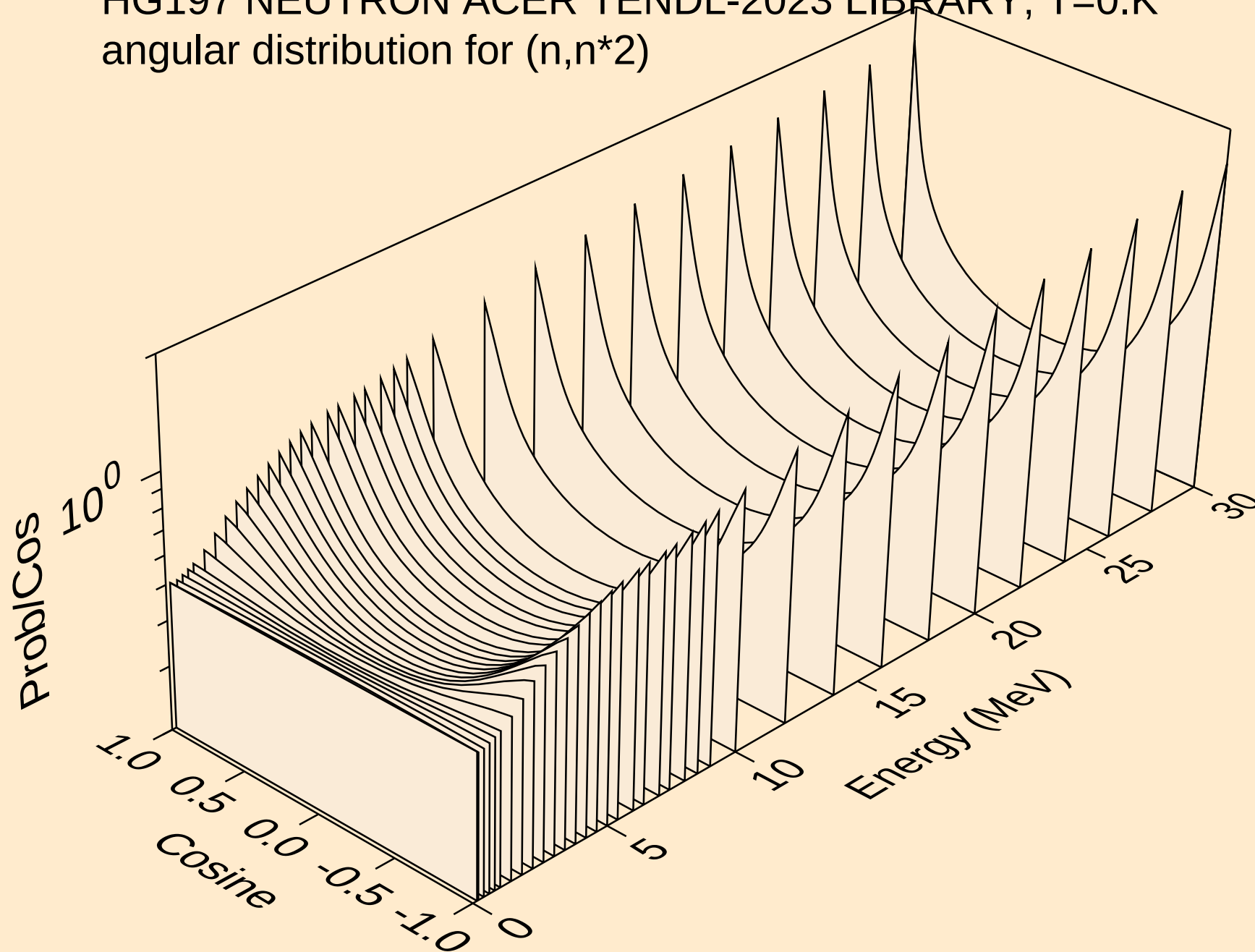
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angular distribution for elastic



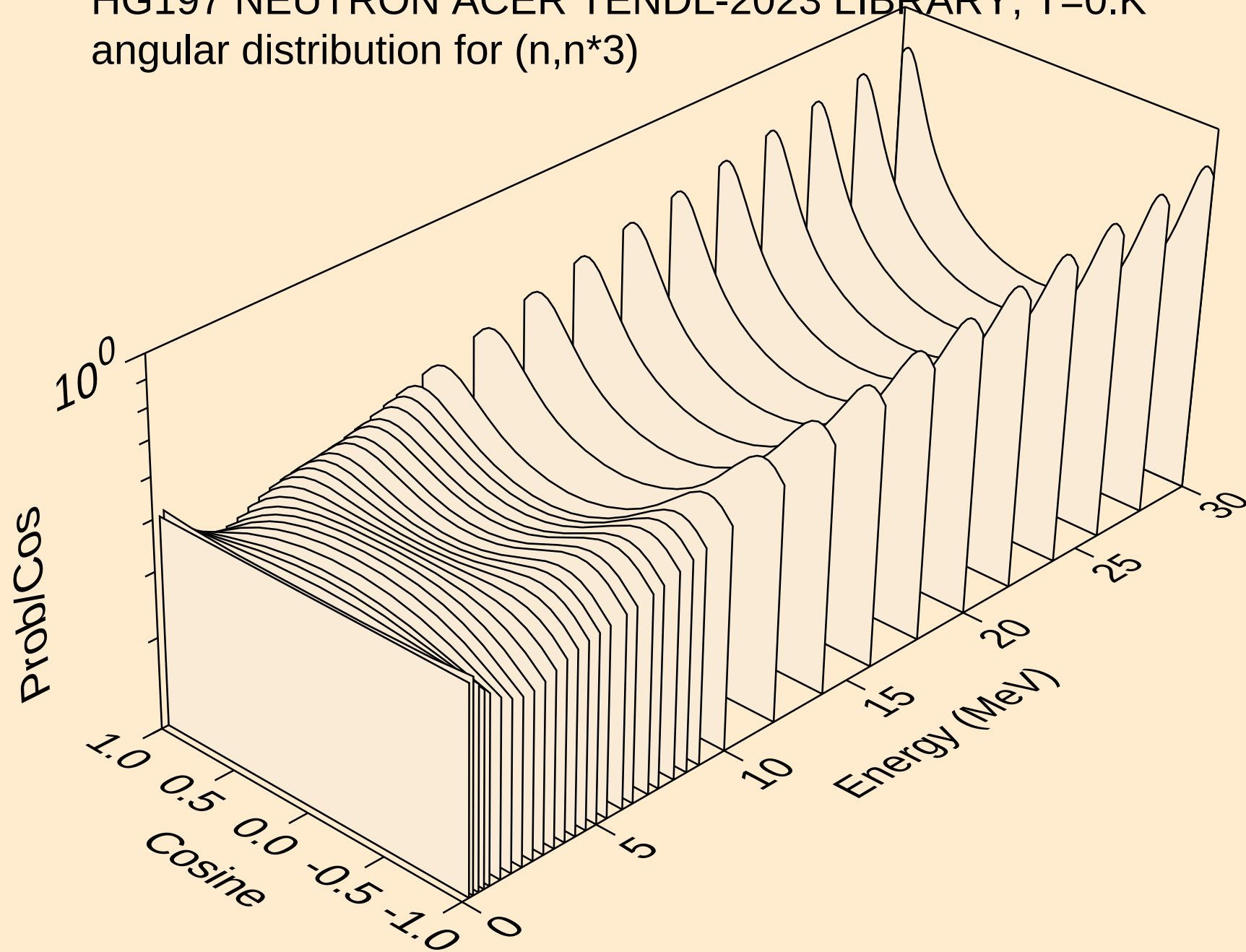
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



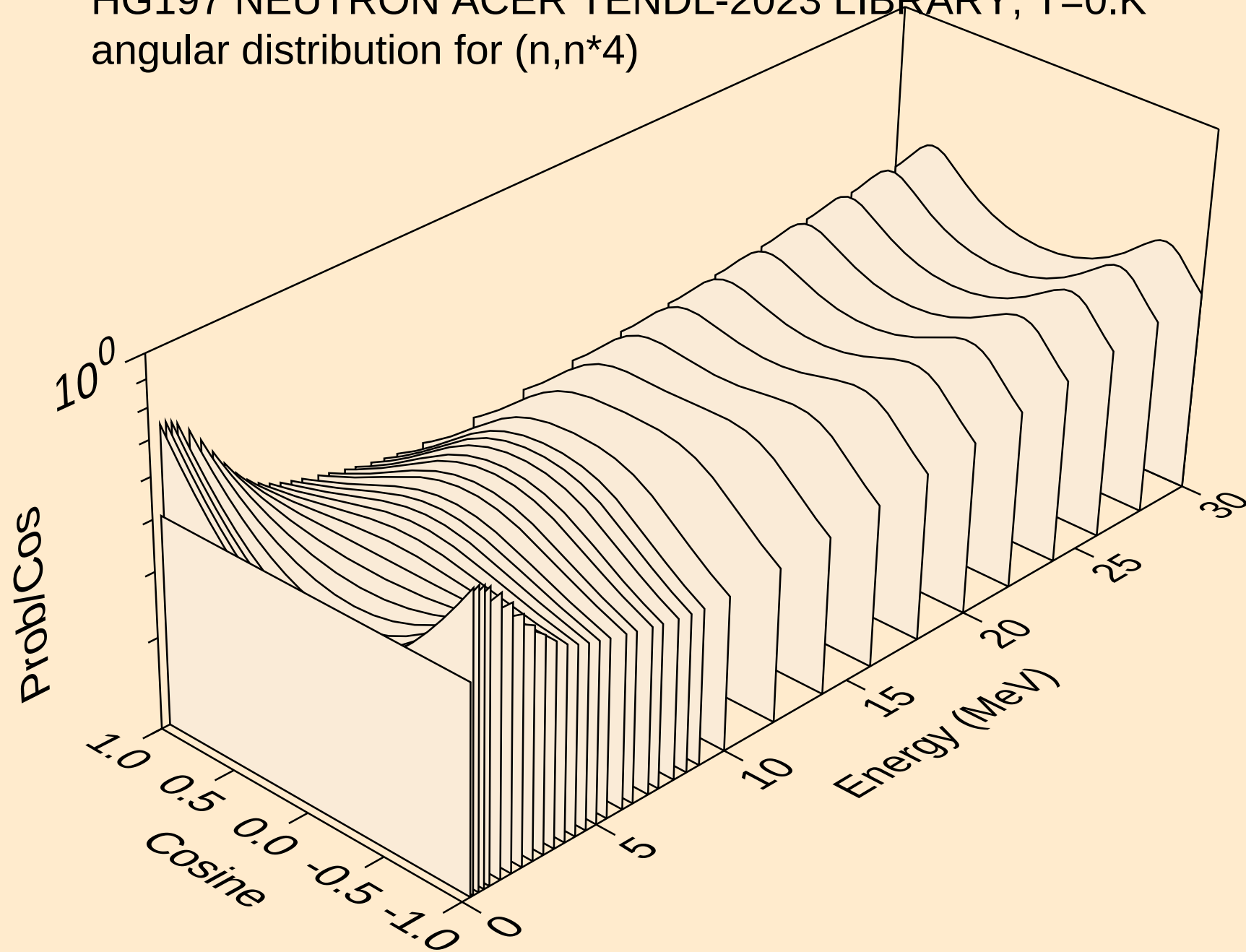
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



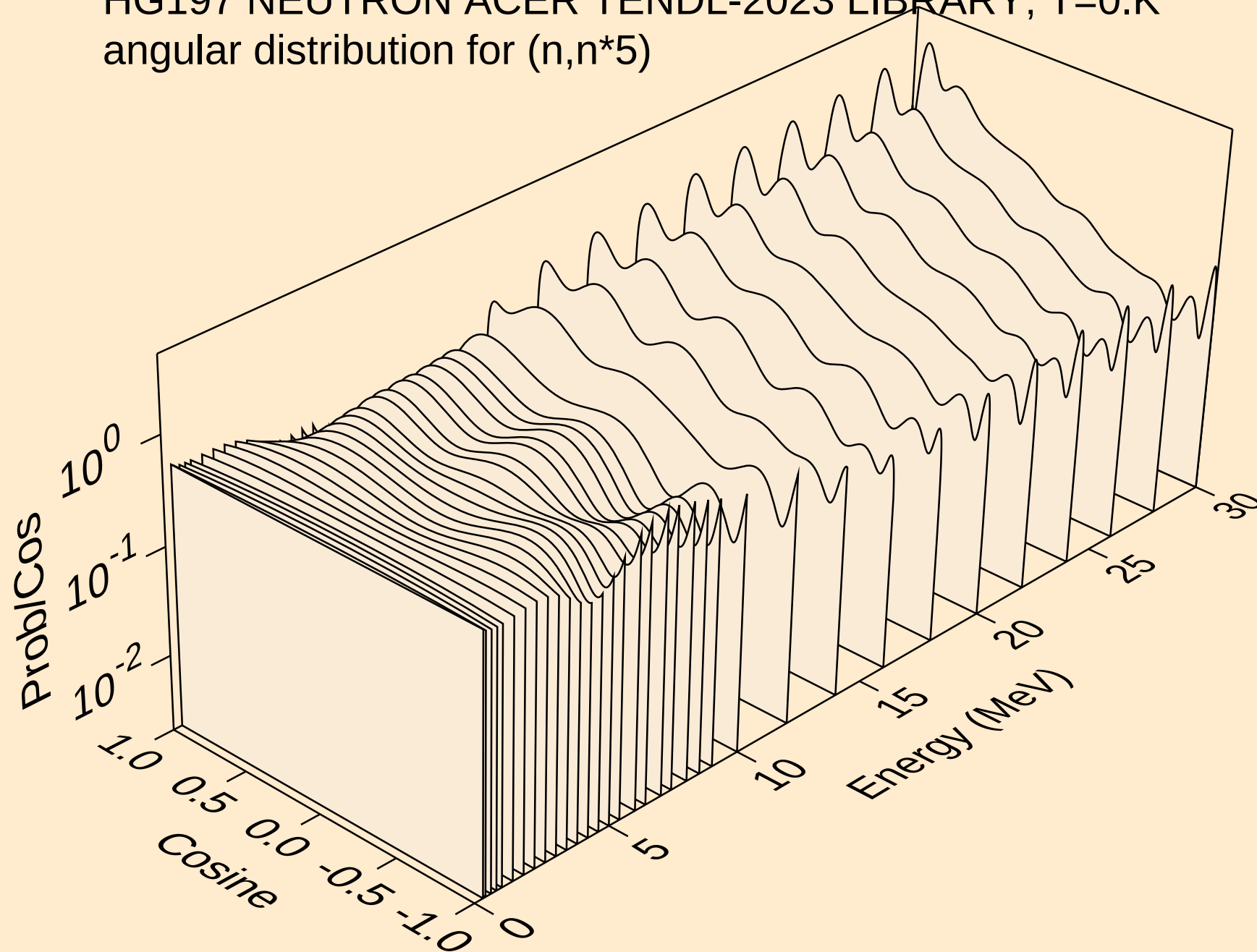
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



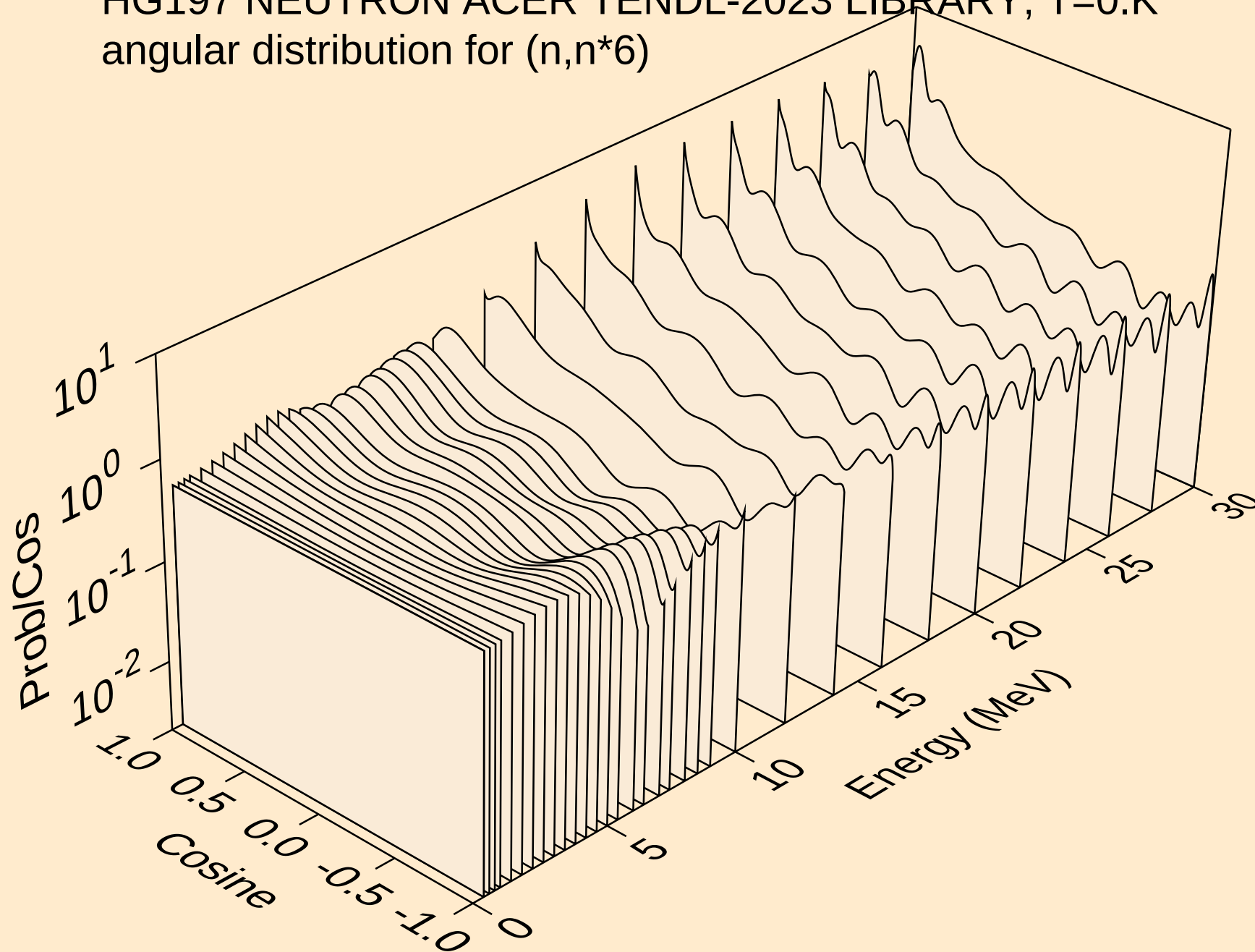
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angular distribution for (n,n\*4)



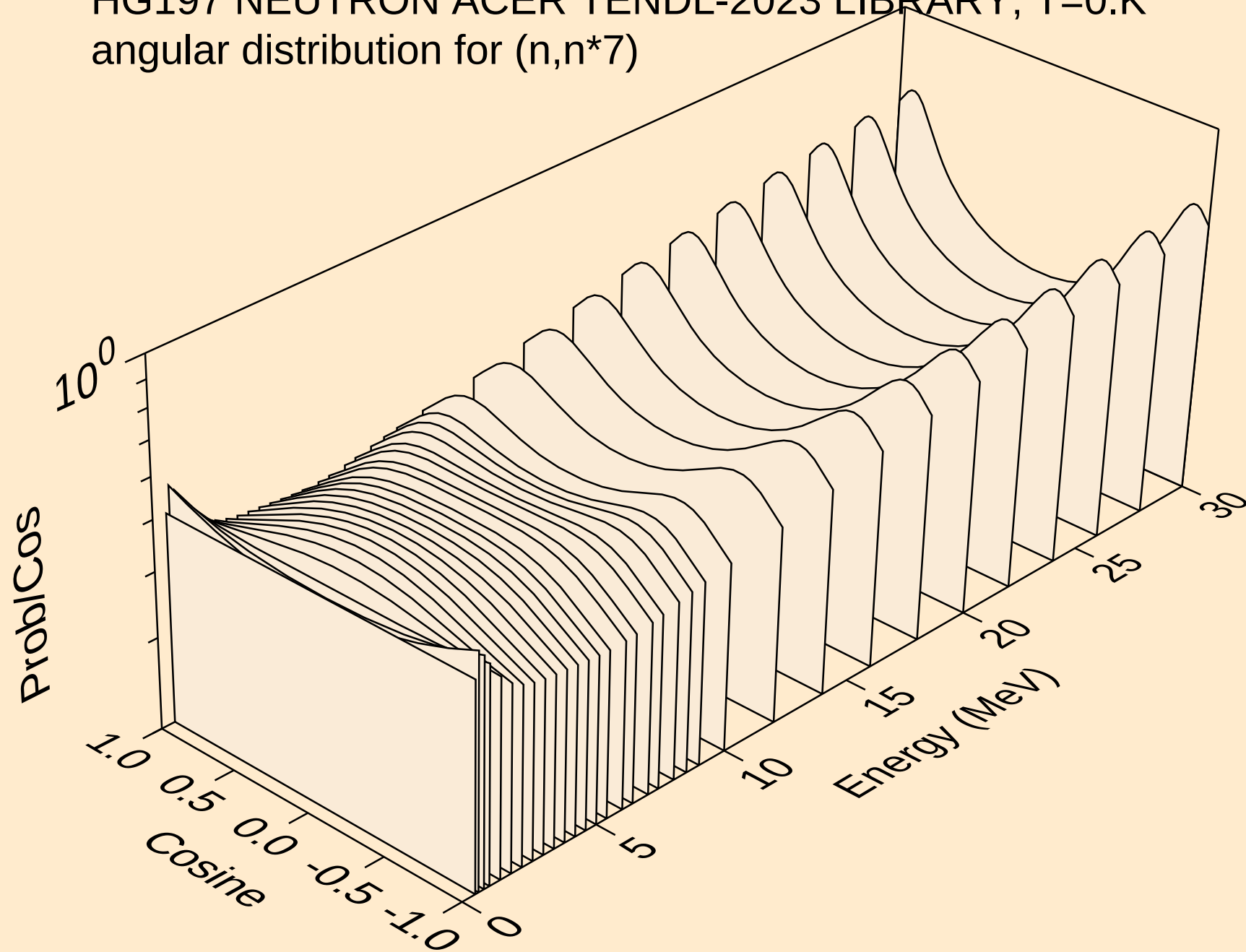
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angular distribution for (n,n\*5)



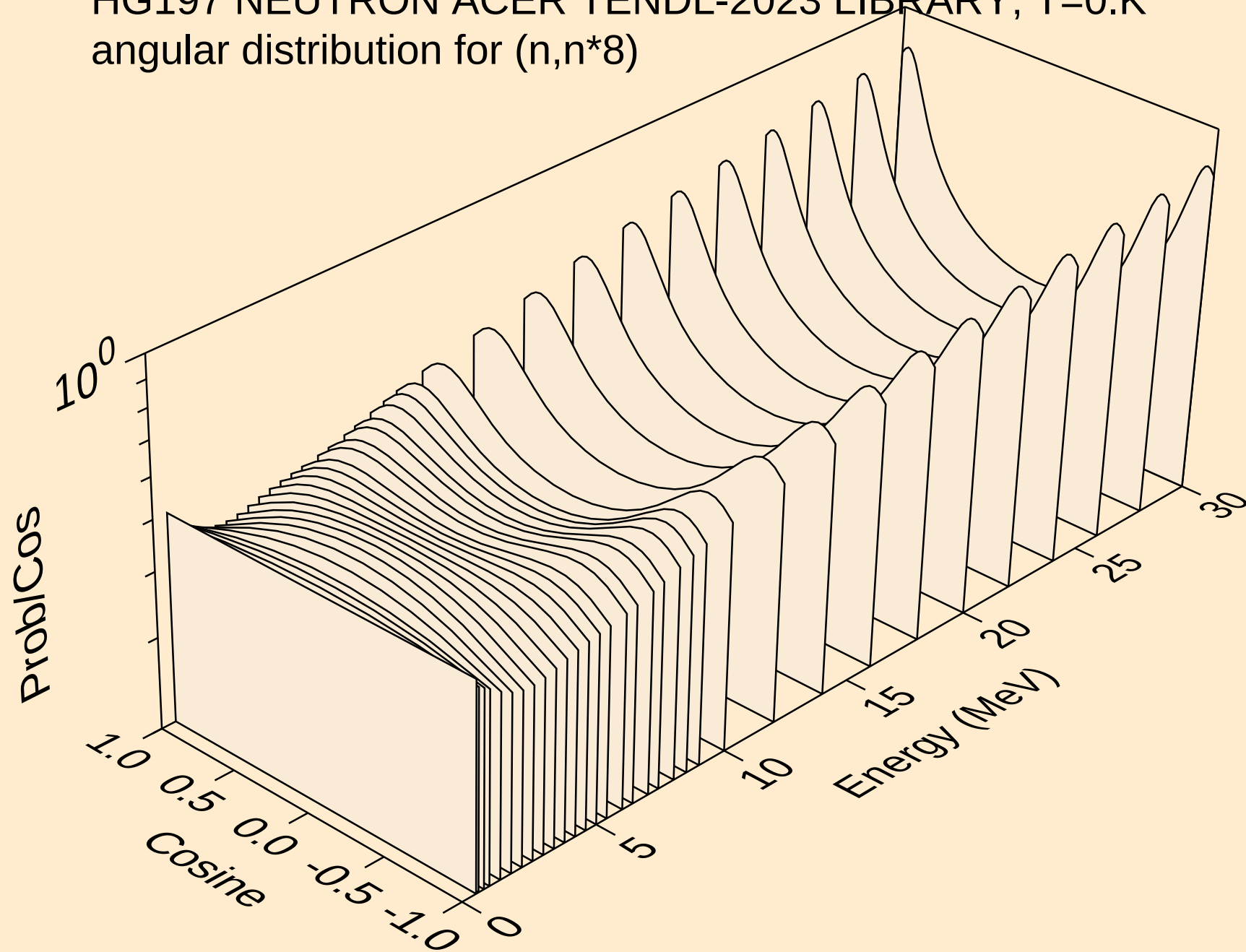
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angular distribution for (n,n\*6)



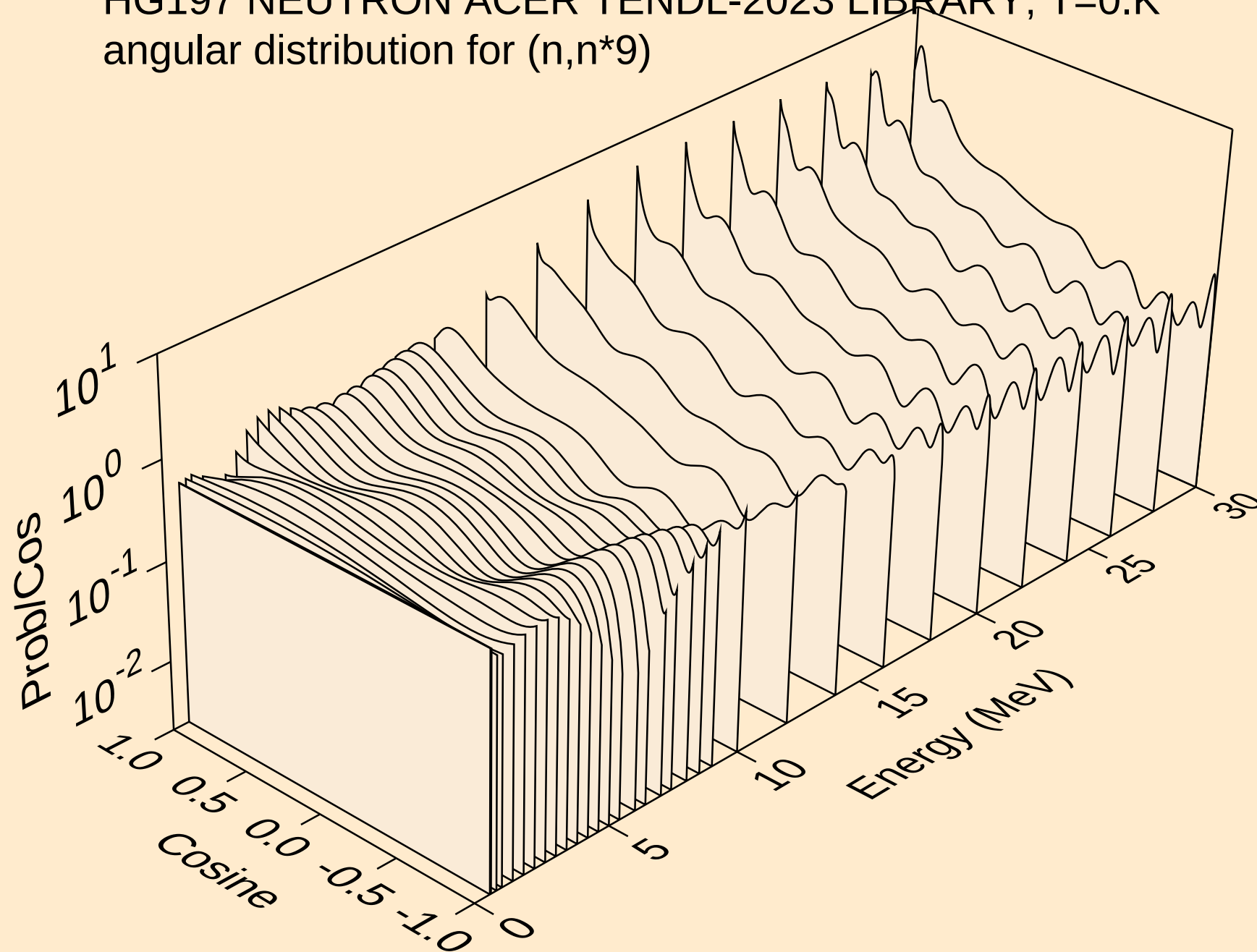
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angular distribution for (n,n\*7)



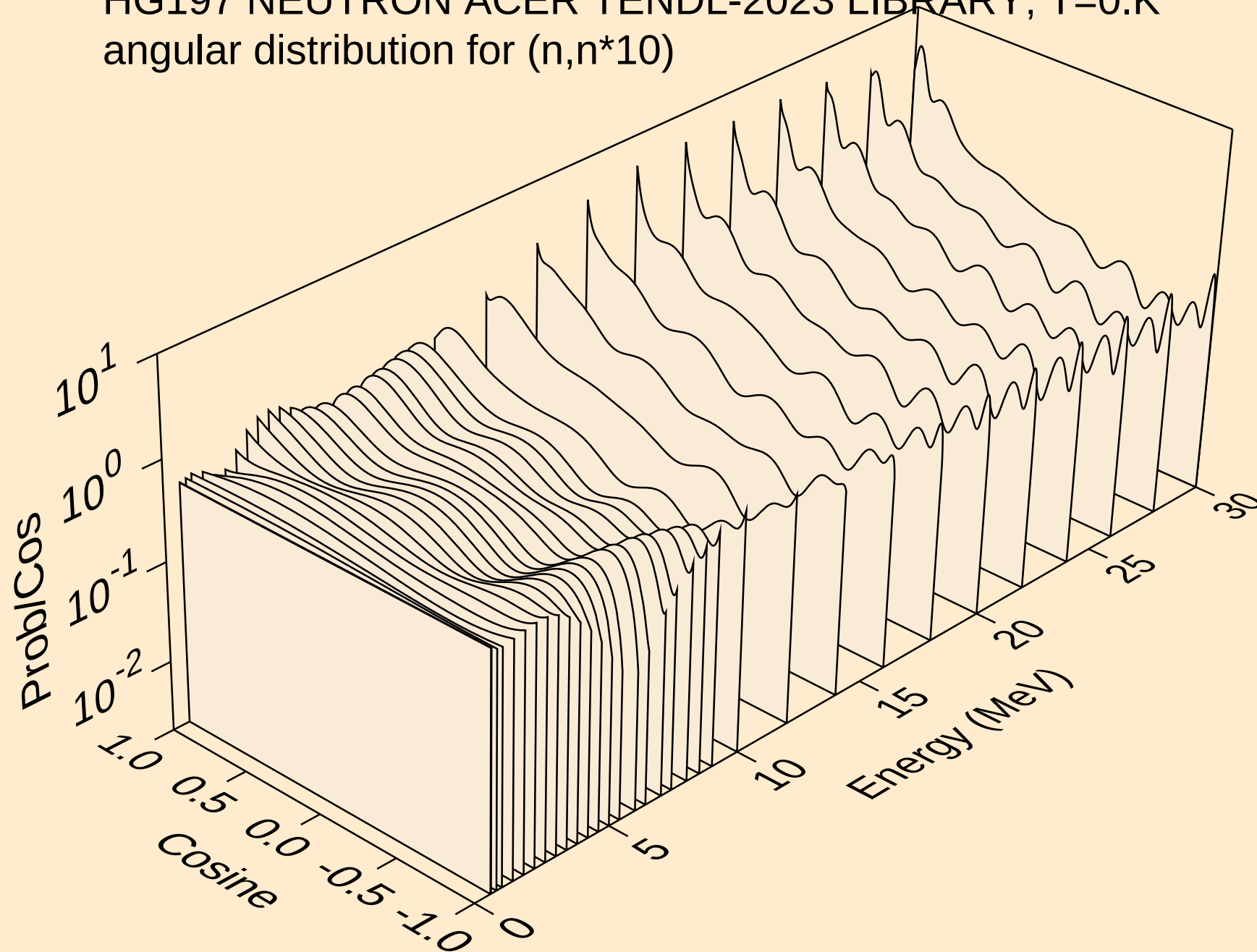
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



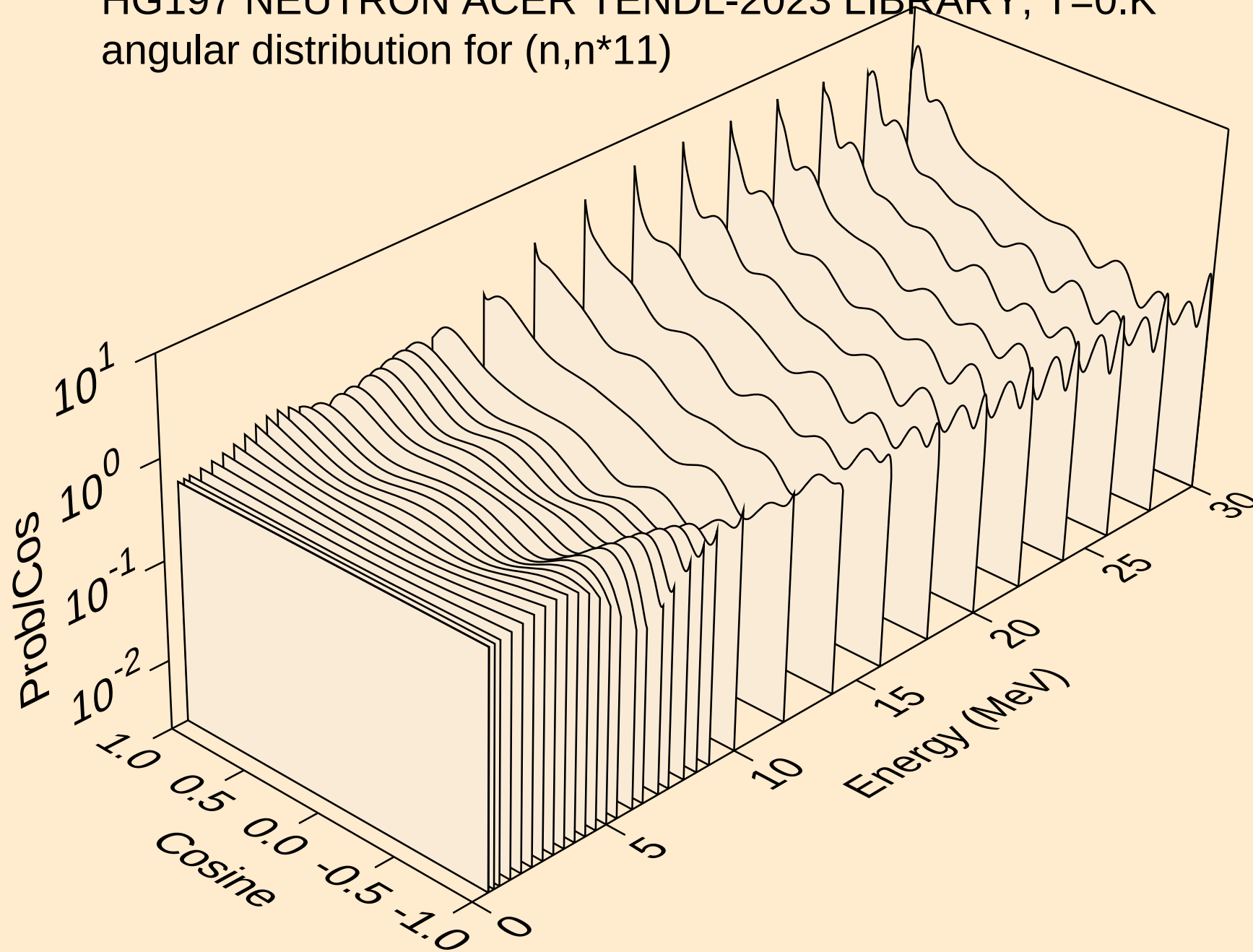
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



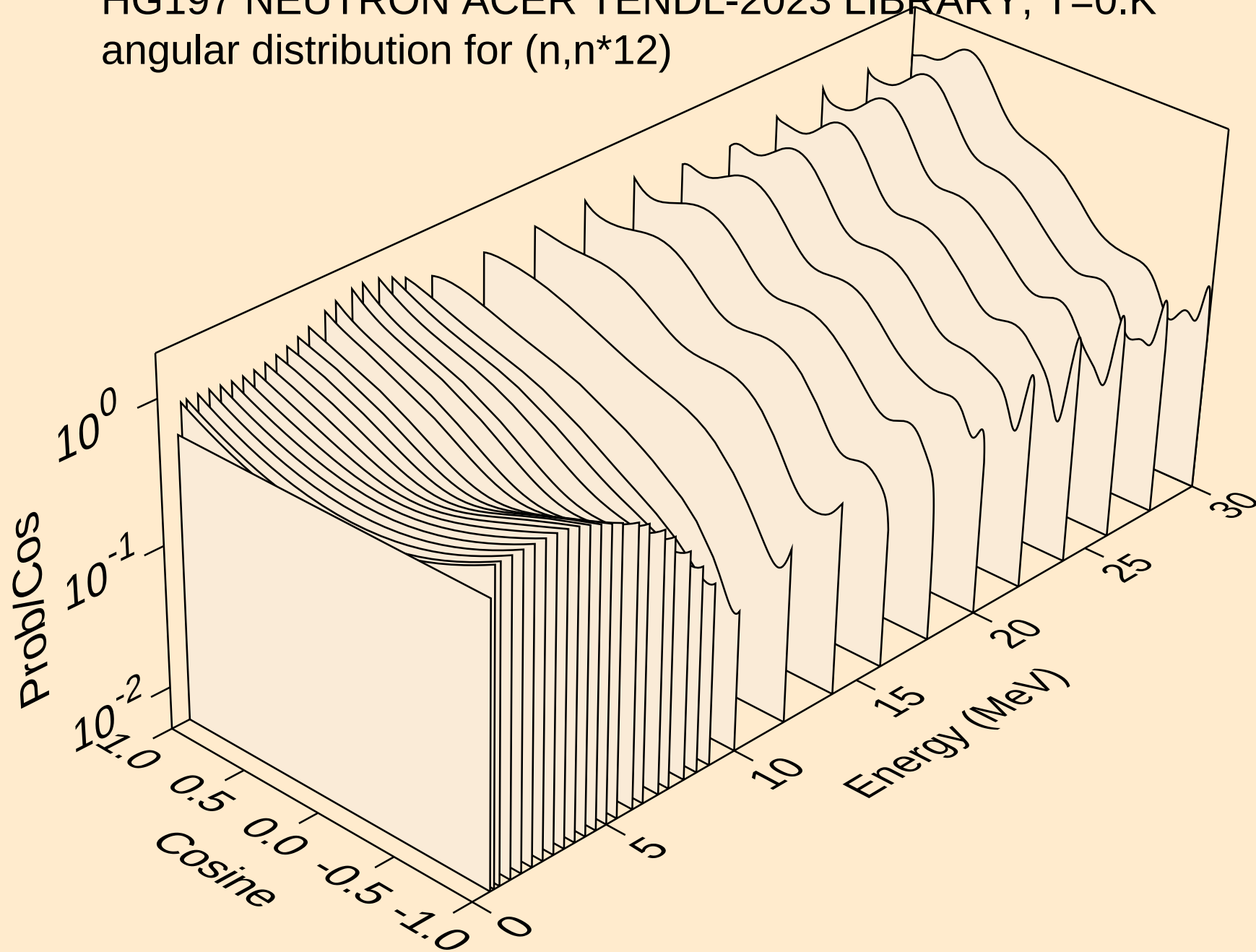
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angular distribution for (n,n\*10)



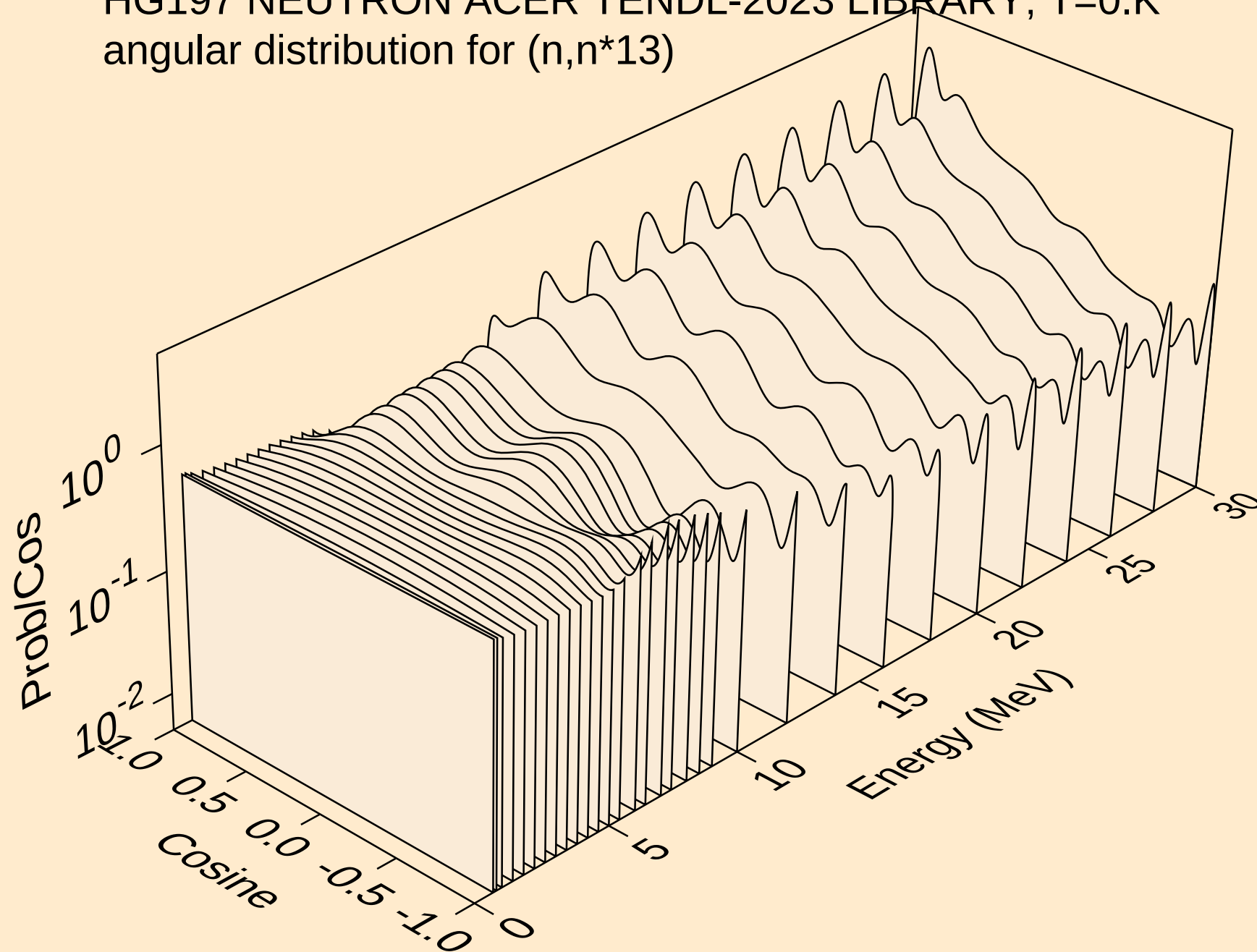
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angular distribution for (n,n\*11)



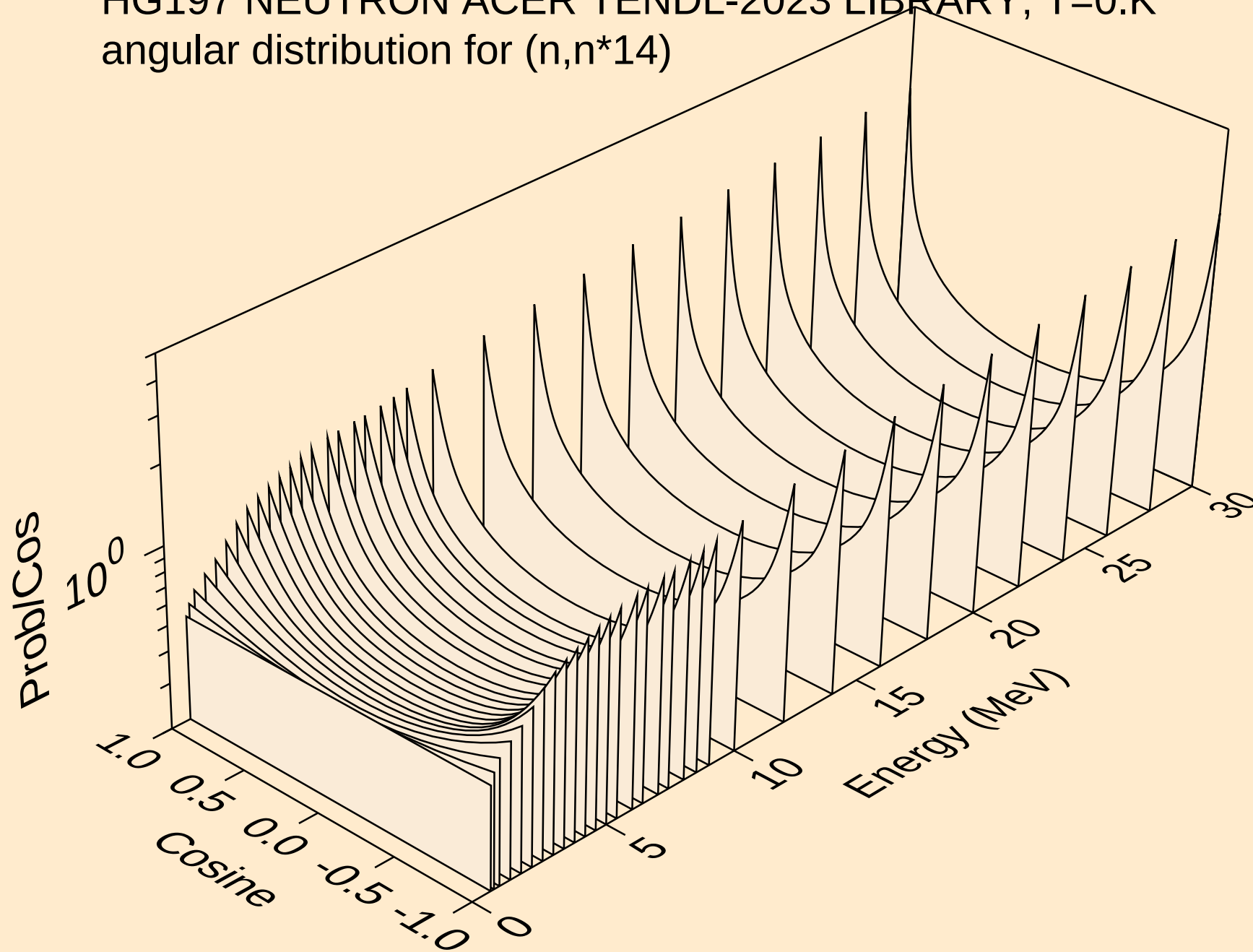
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angular distribution for (n,n\*12)



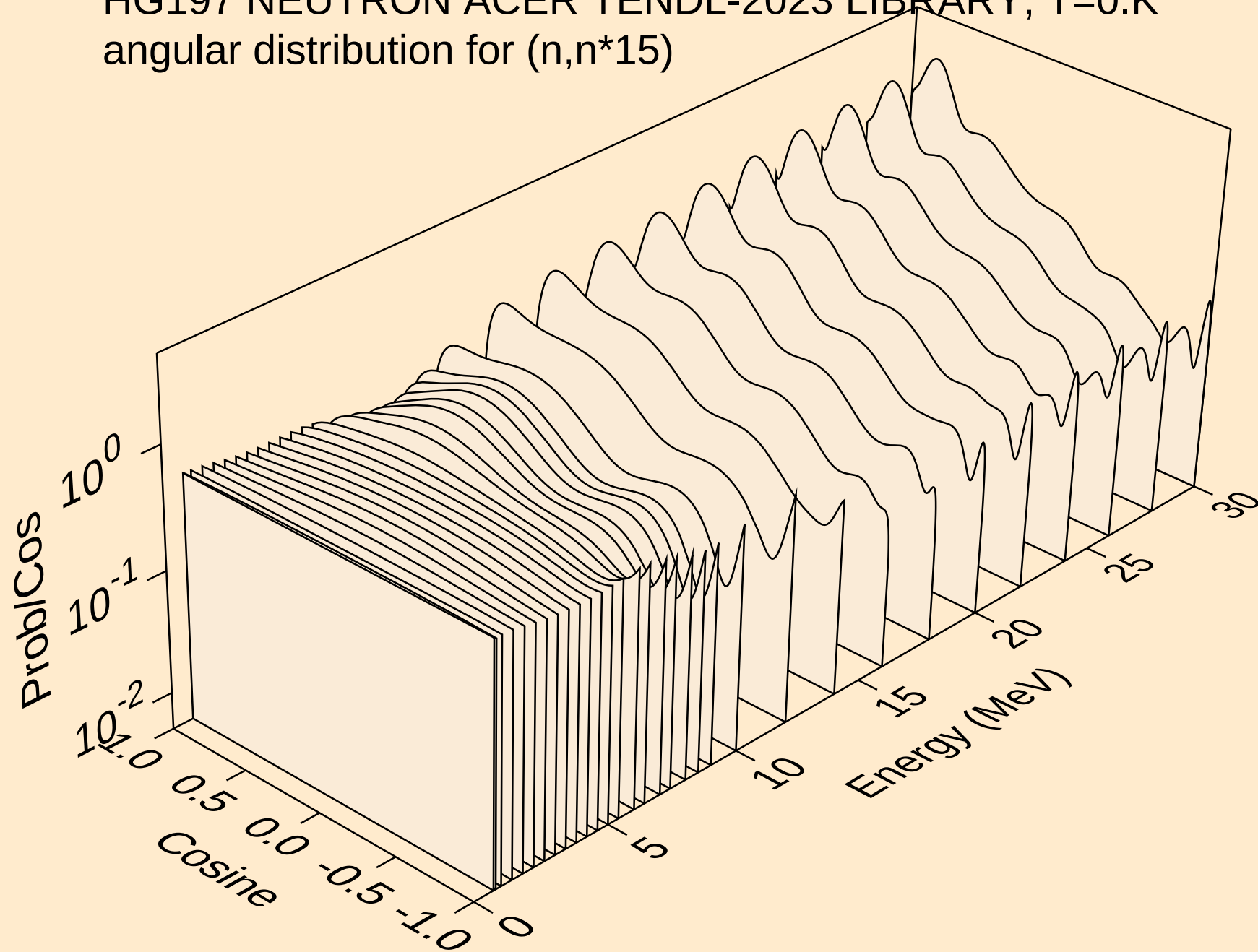
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angular distribution for (n,n\*13)



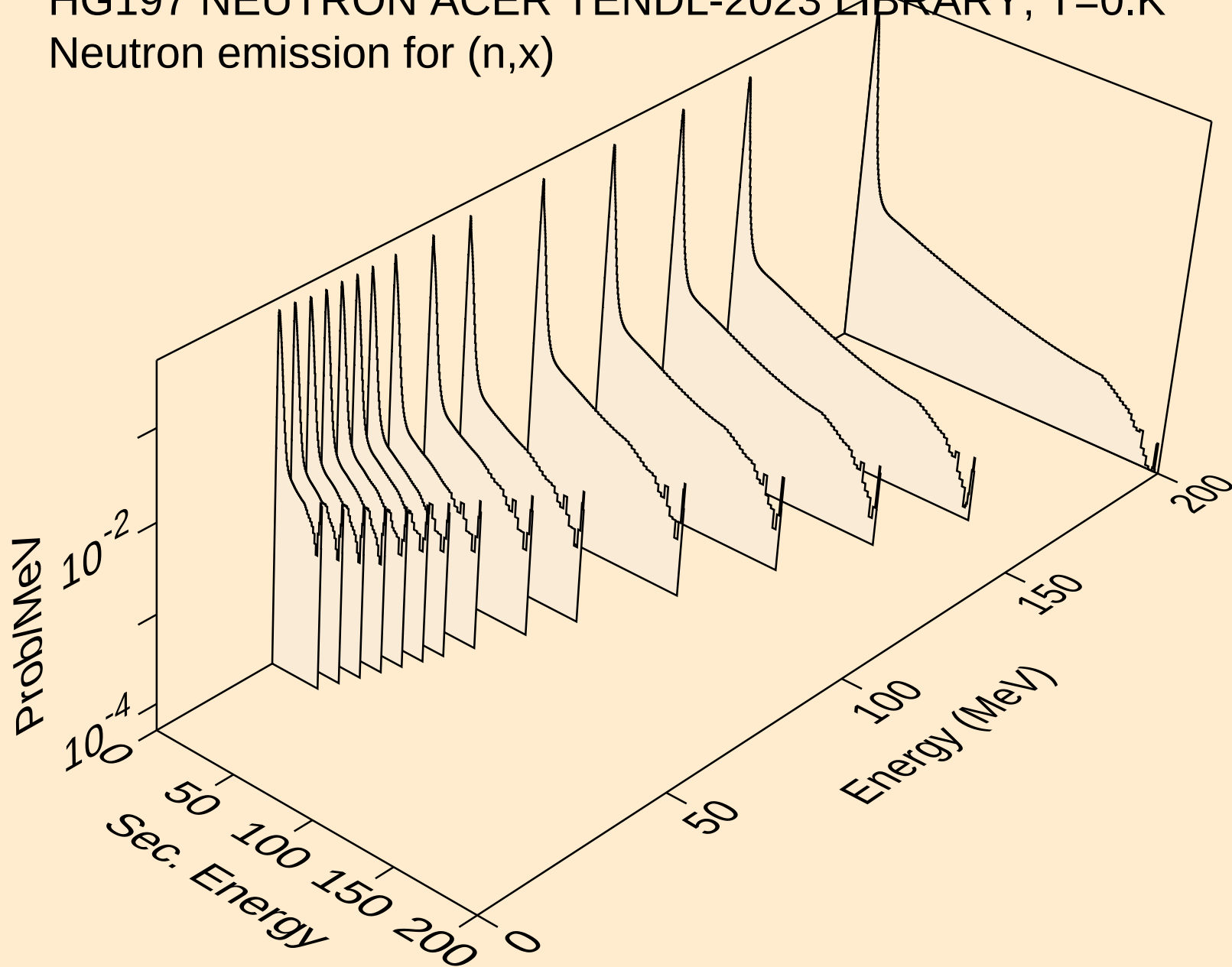
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angular distribution for (n,n\*14)



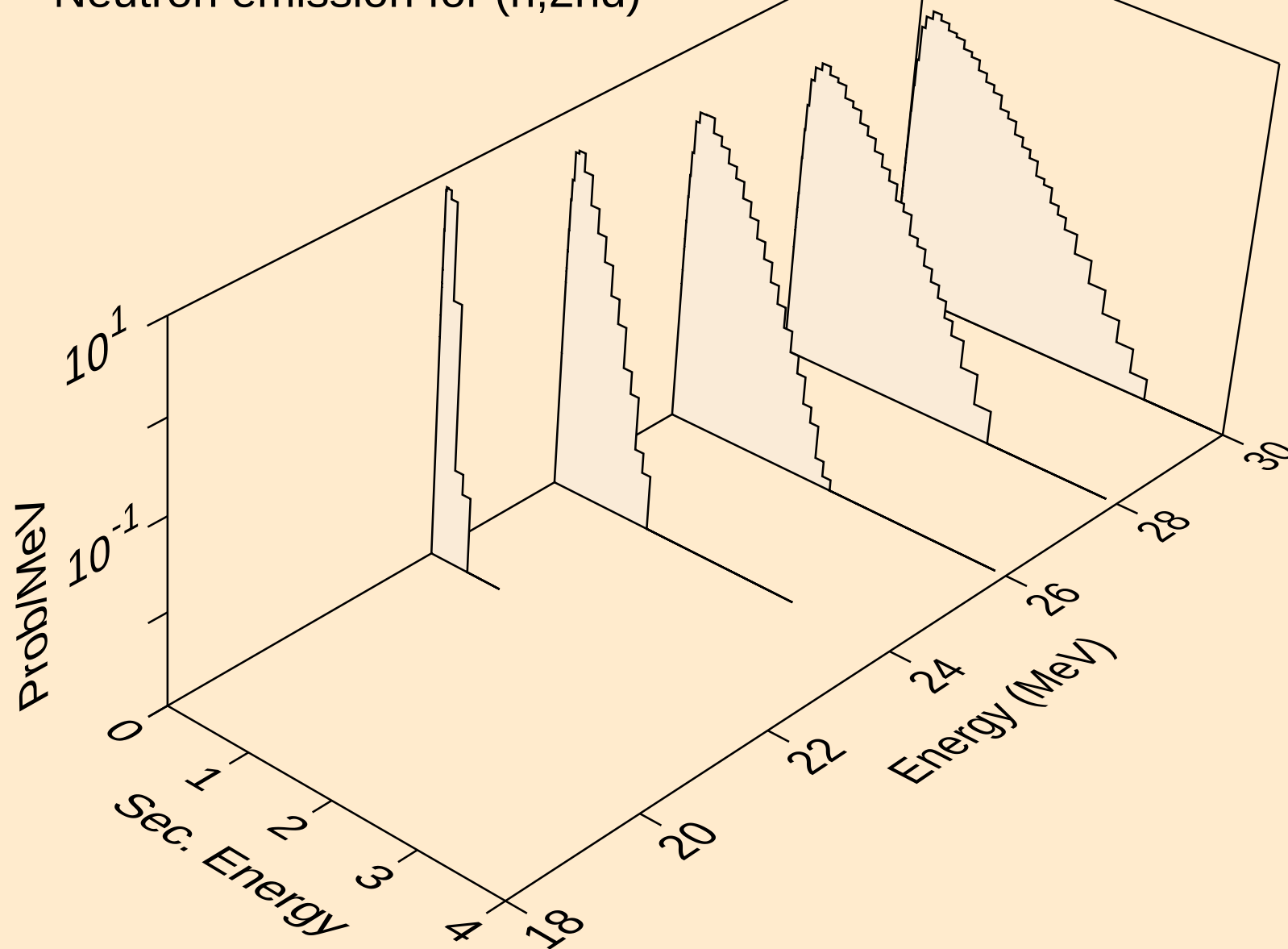
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angular distribution for (n,n\*15)



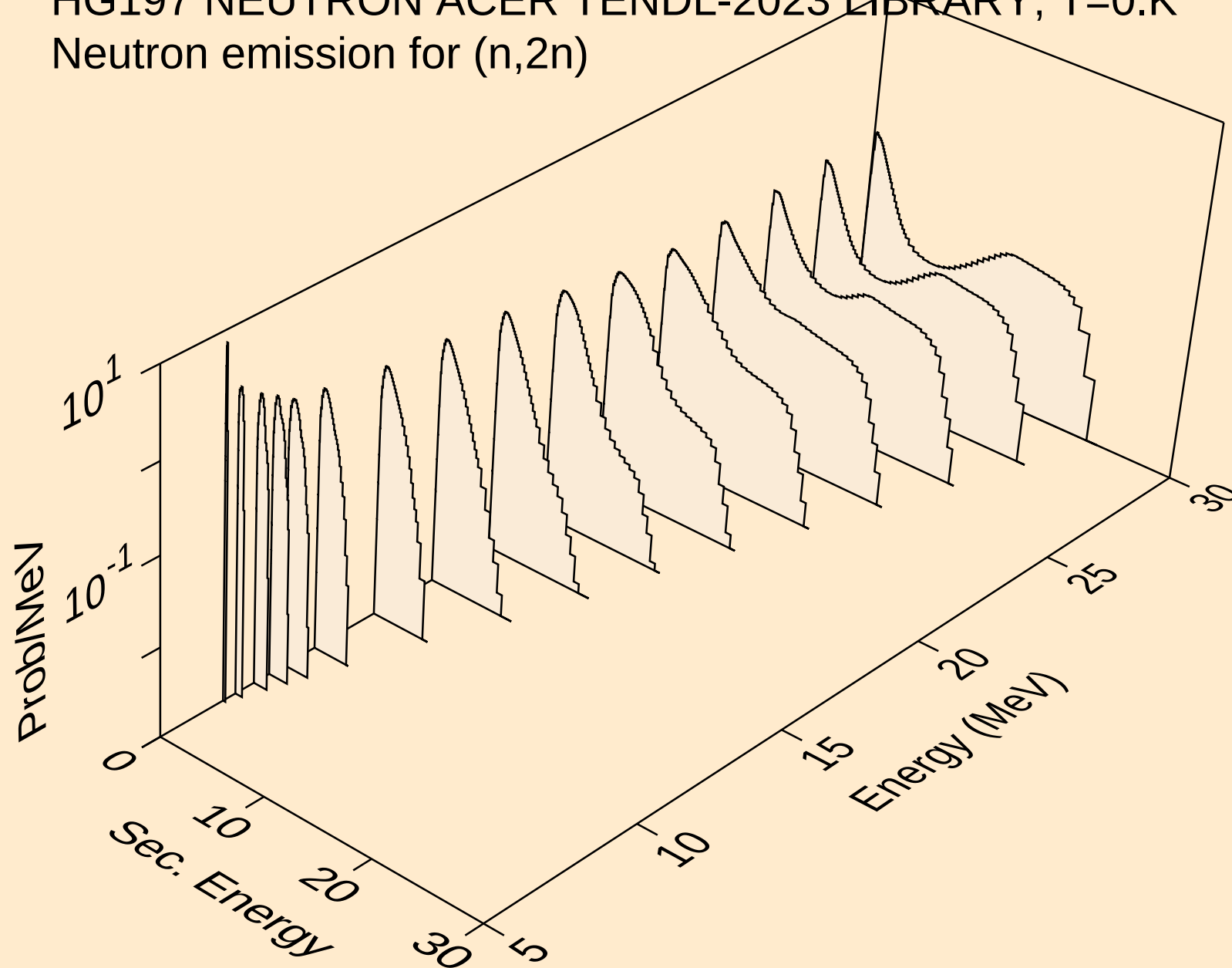
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



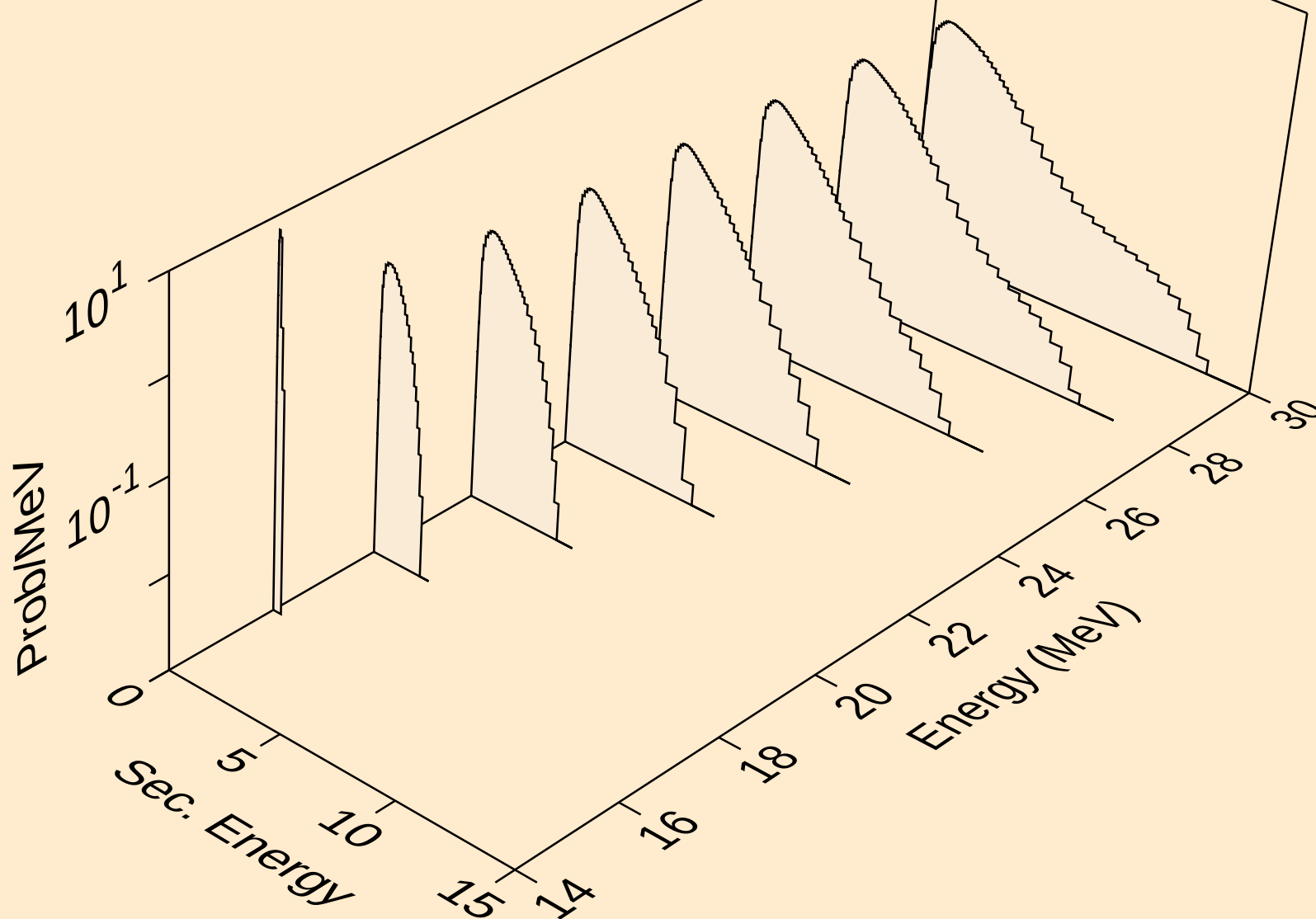
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



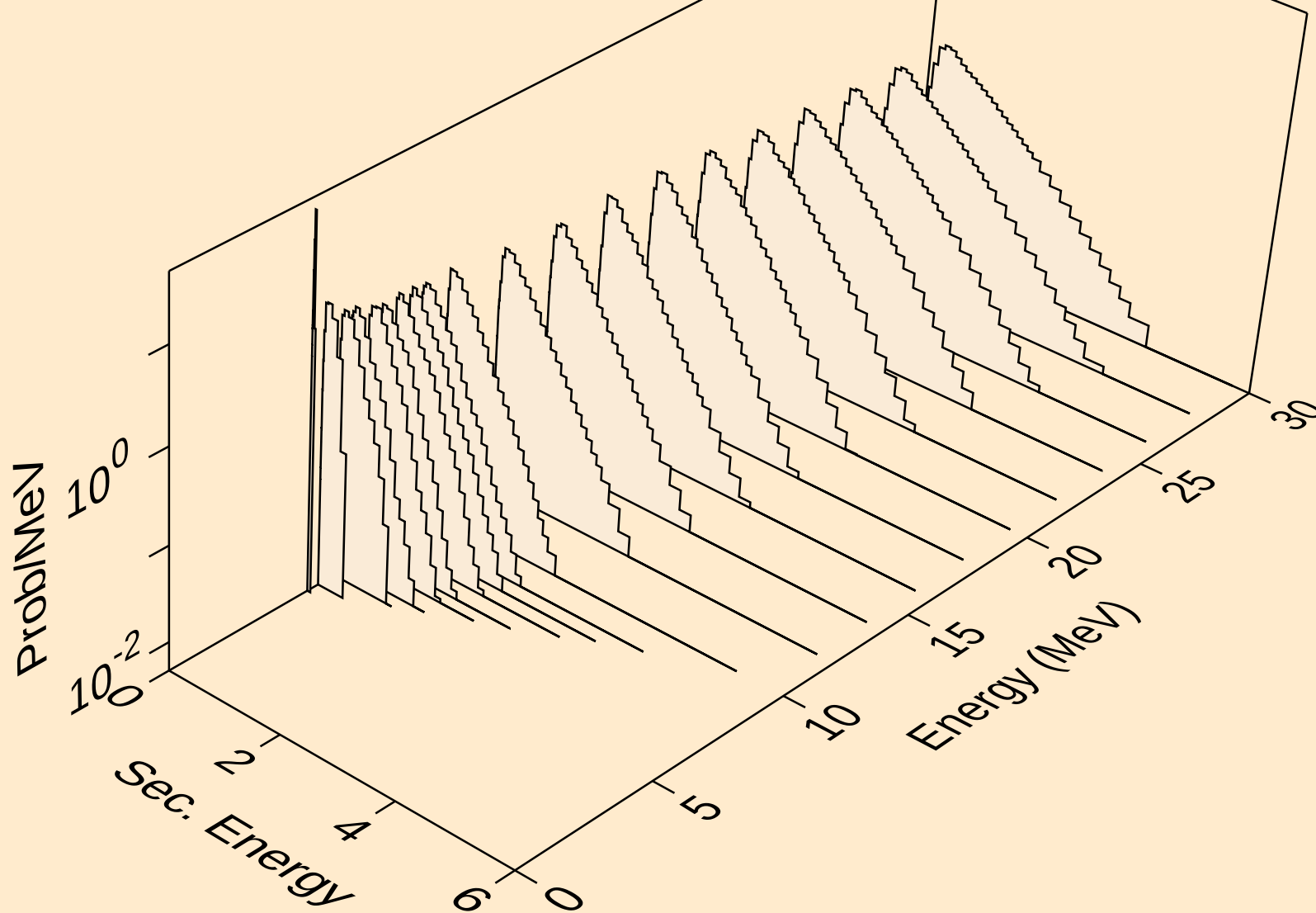
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



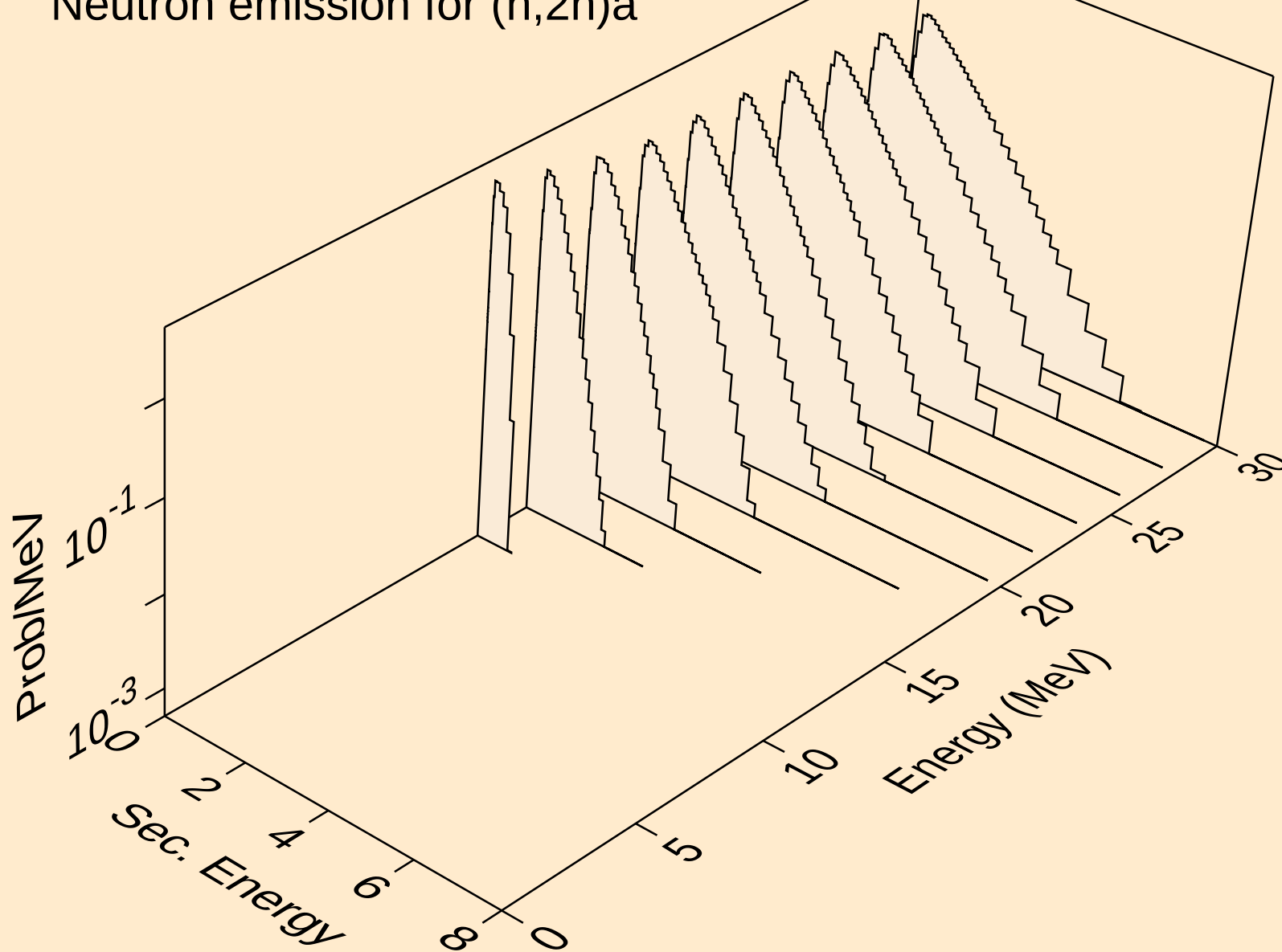
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



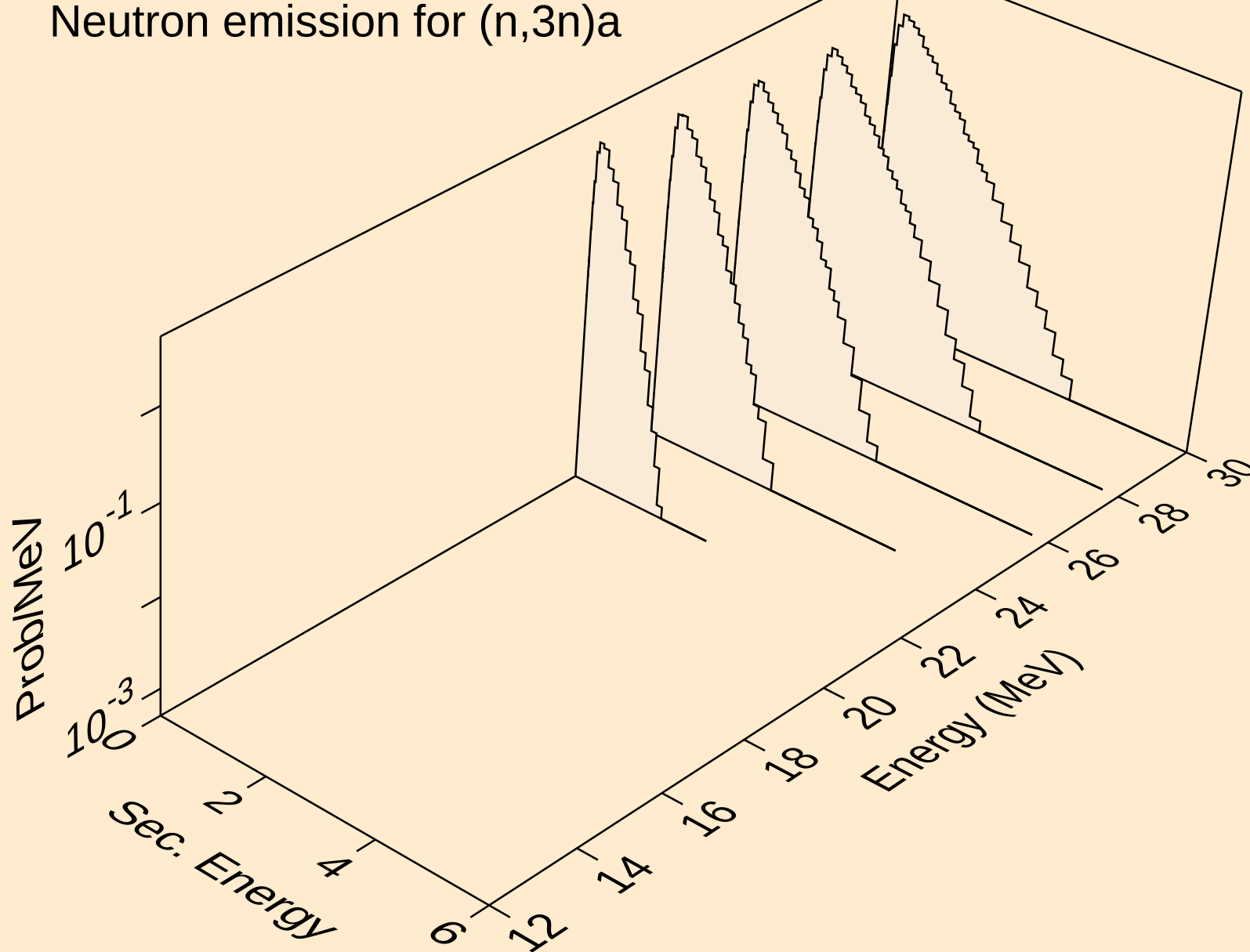
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



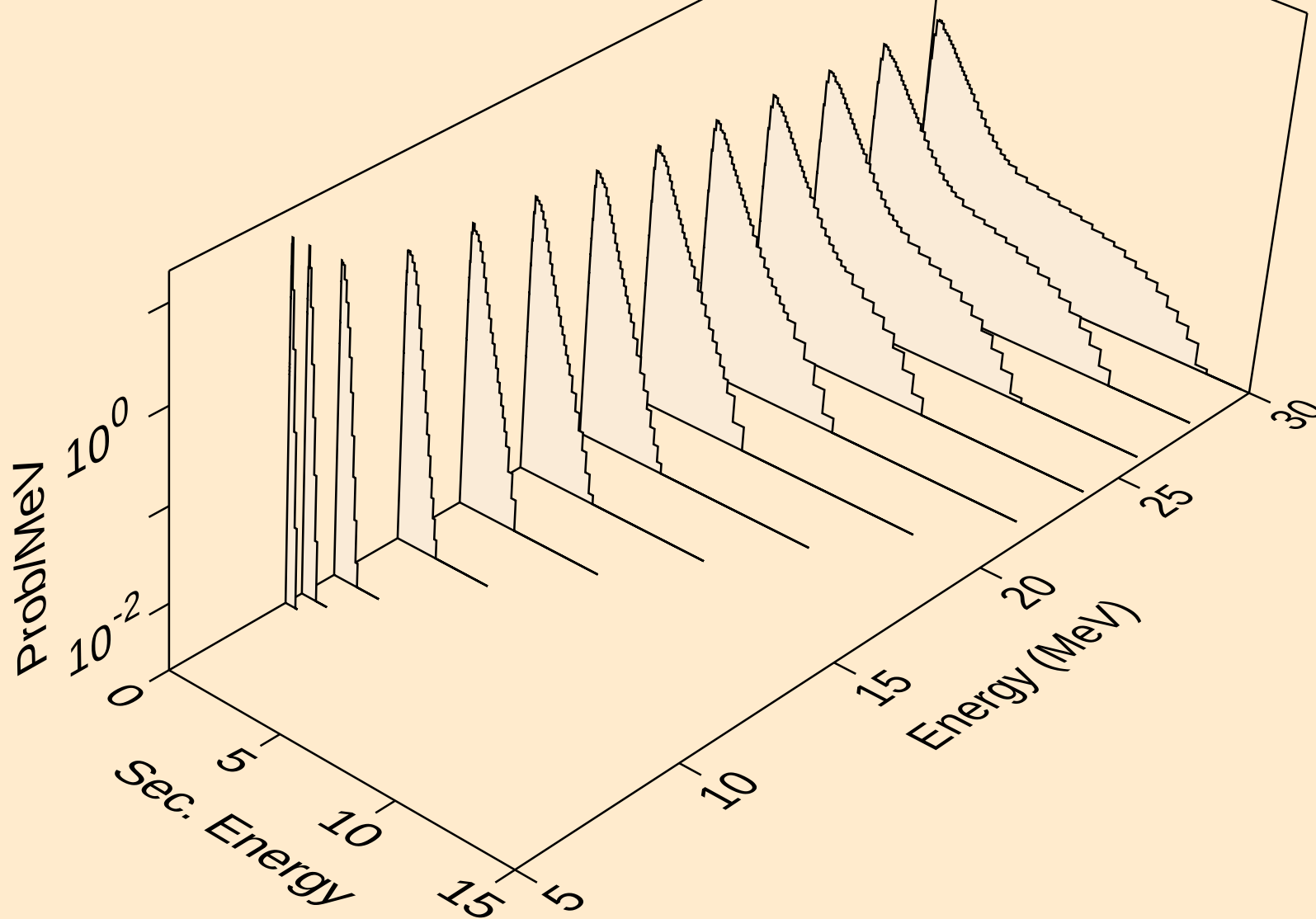
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Neutron emission for (n,2n)<sub>a</sub>



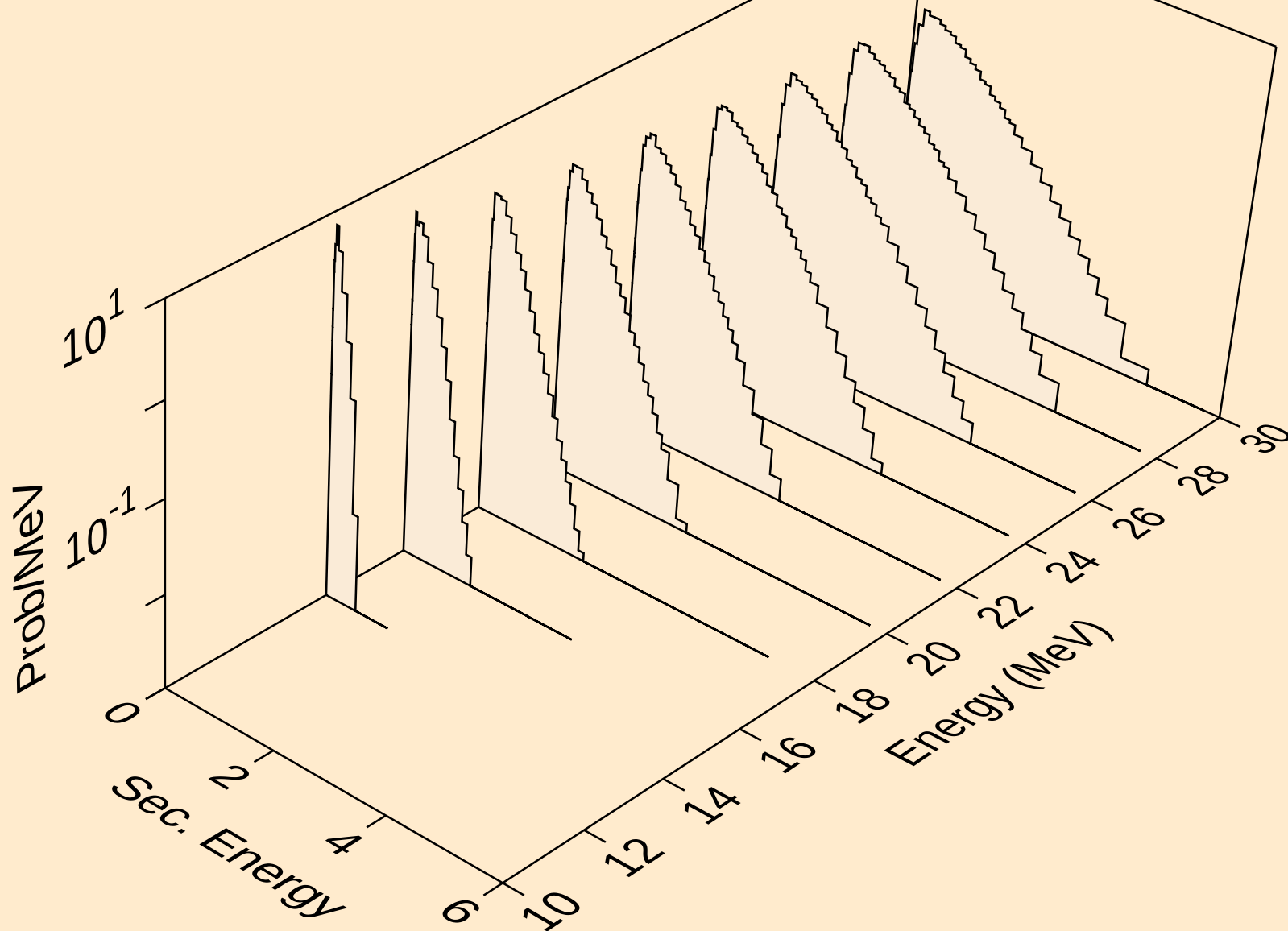
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Neutron emission for (n,3n)a



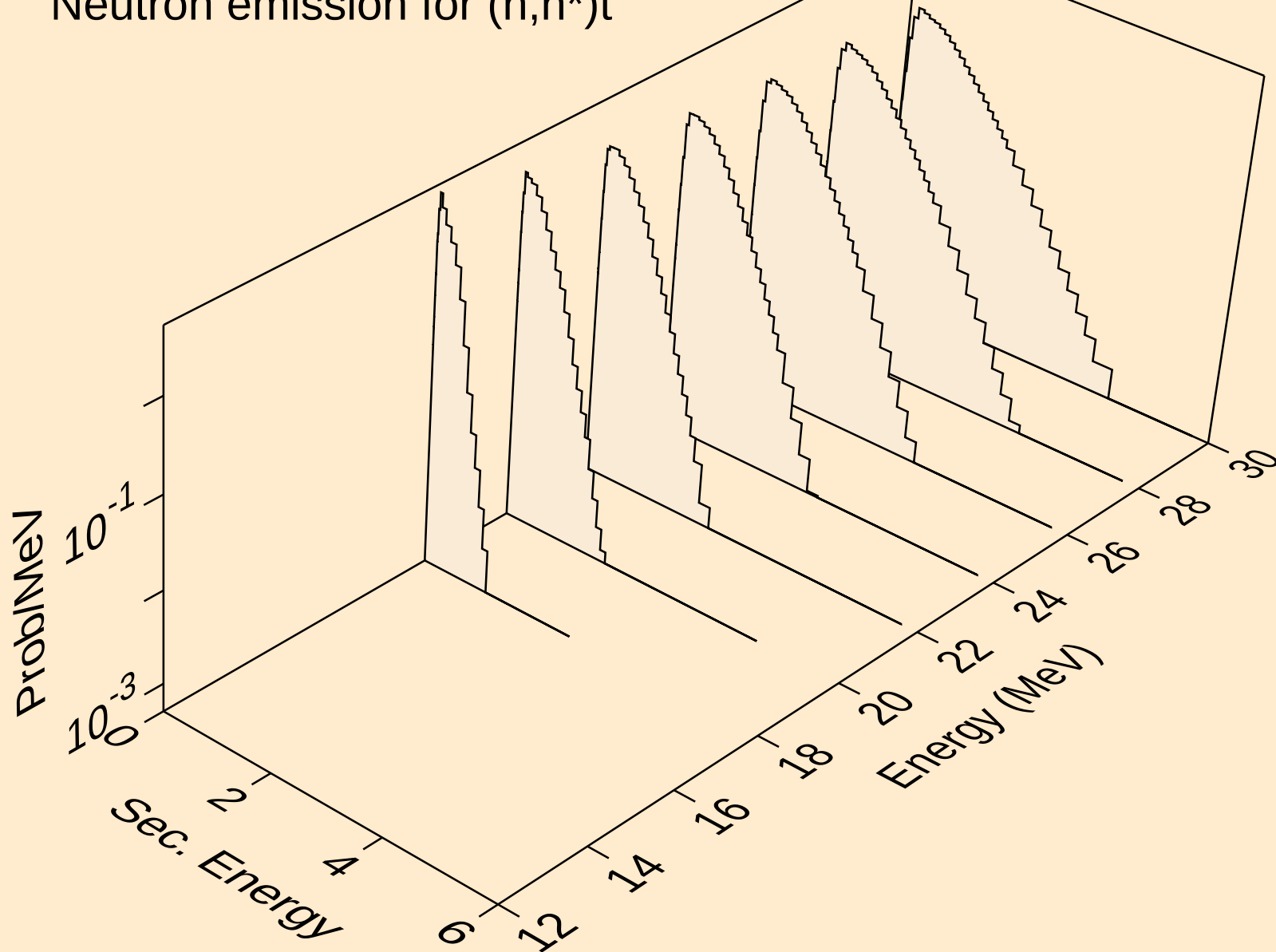
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Neutron emission for (n,n\*)p



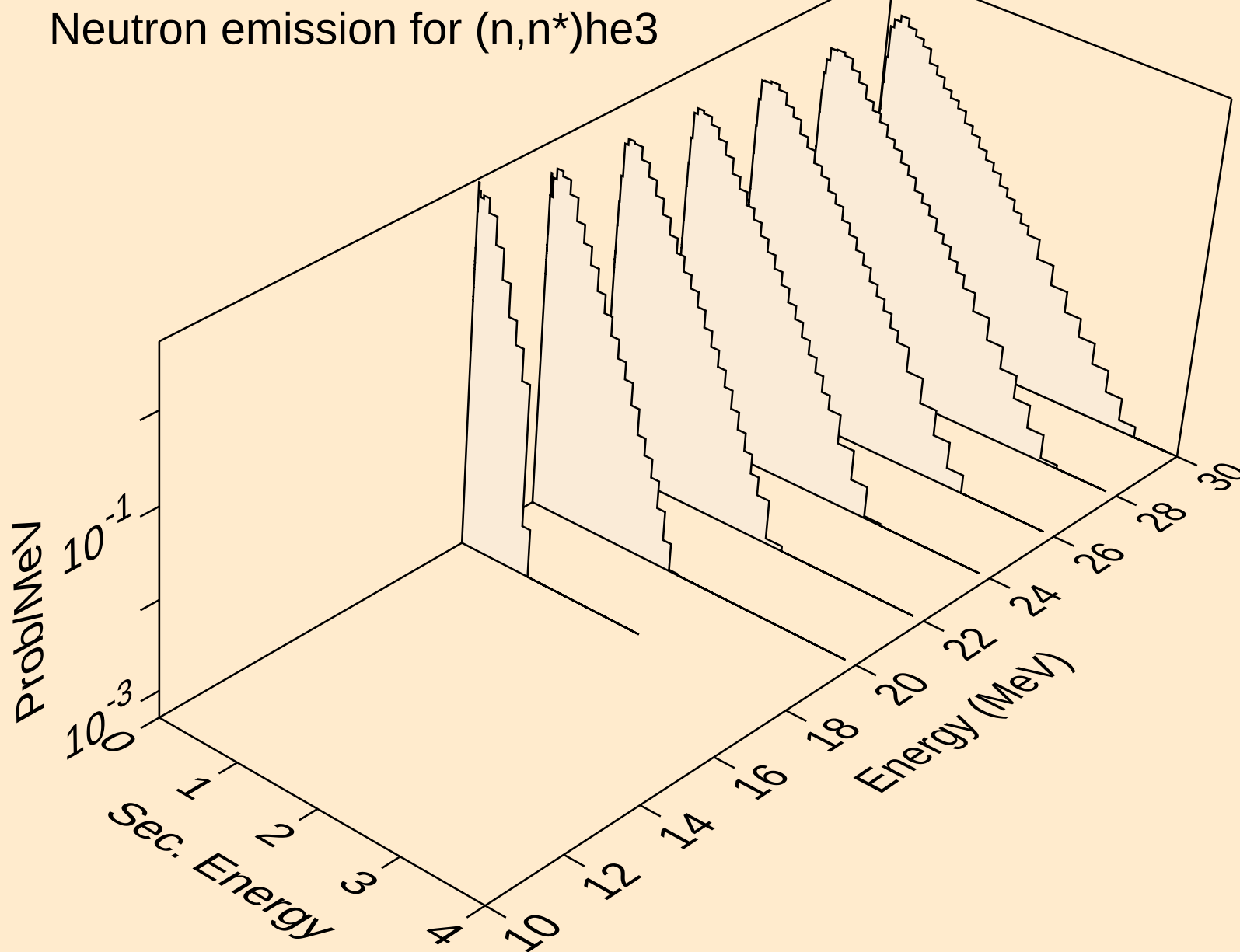
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



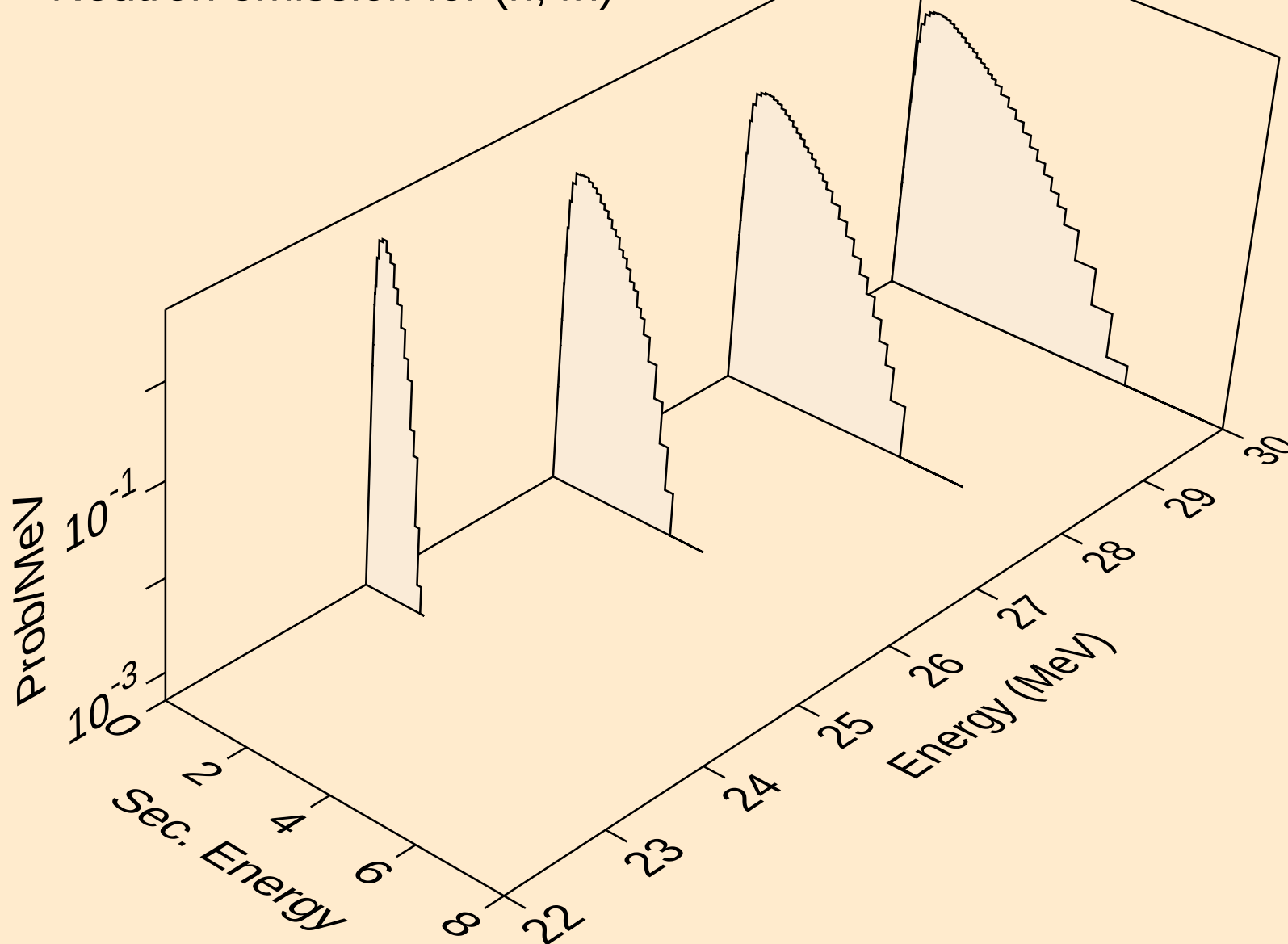
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Neutron emission for (n,n\*)t



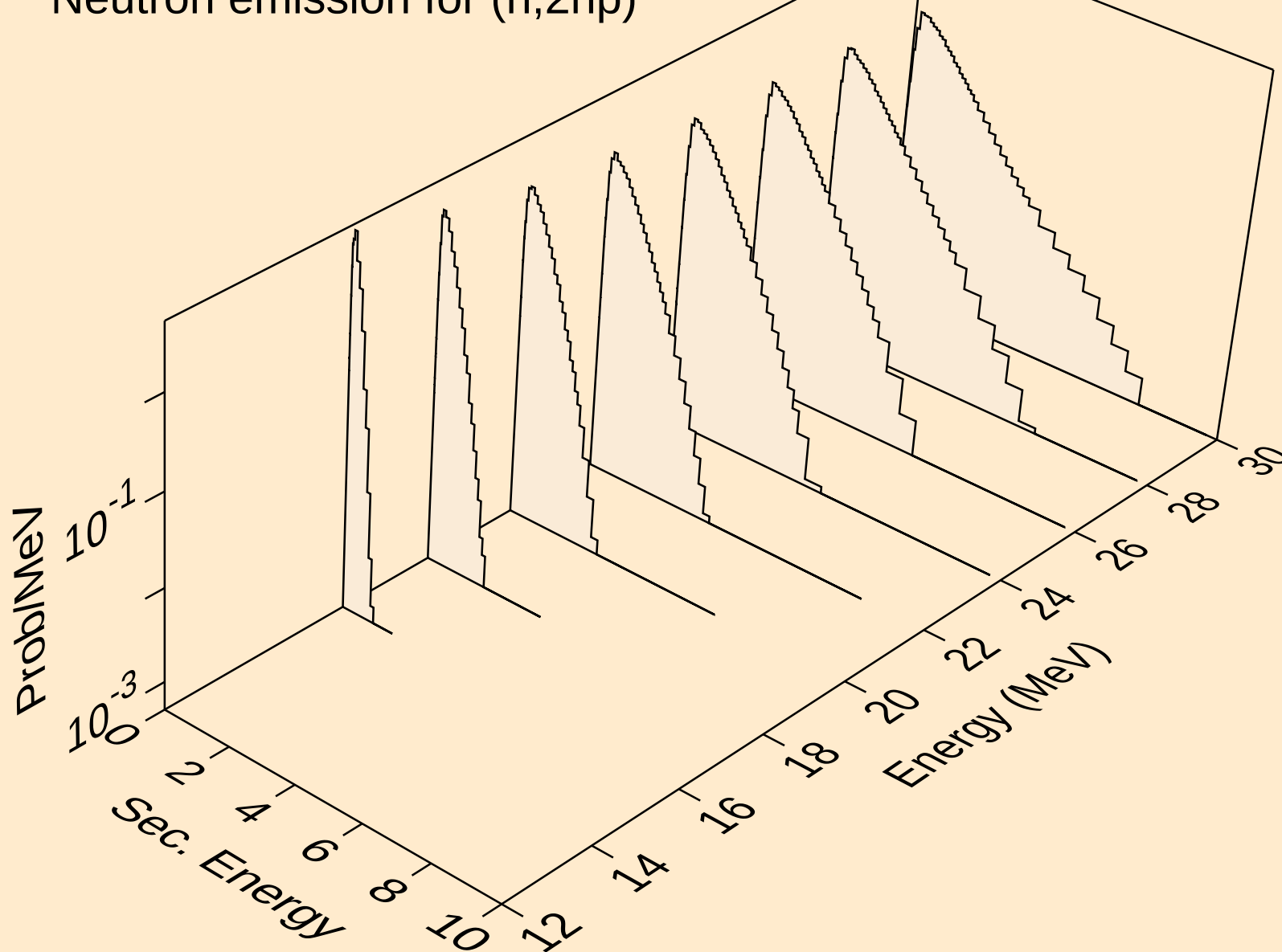
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



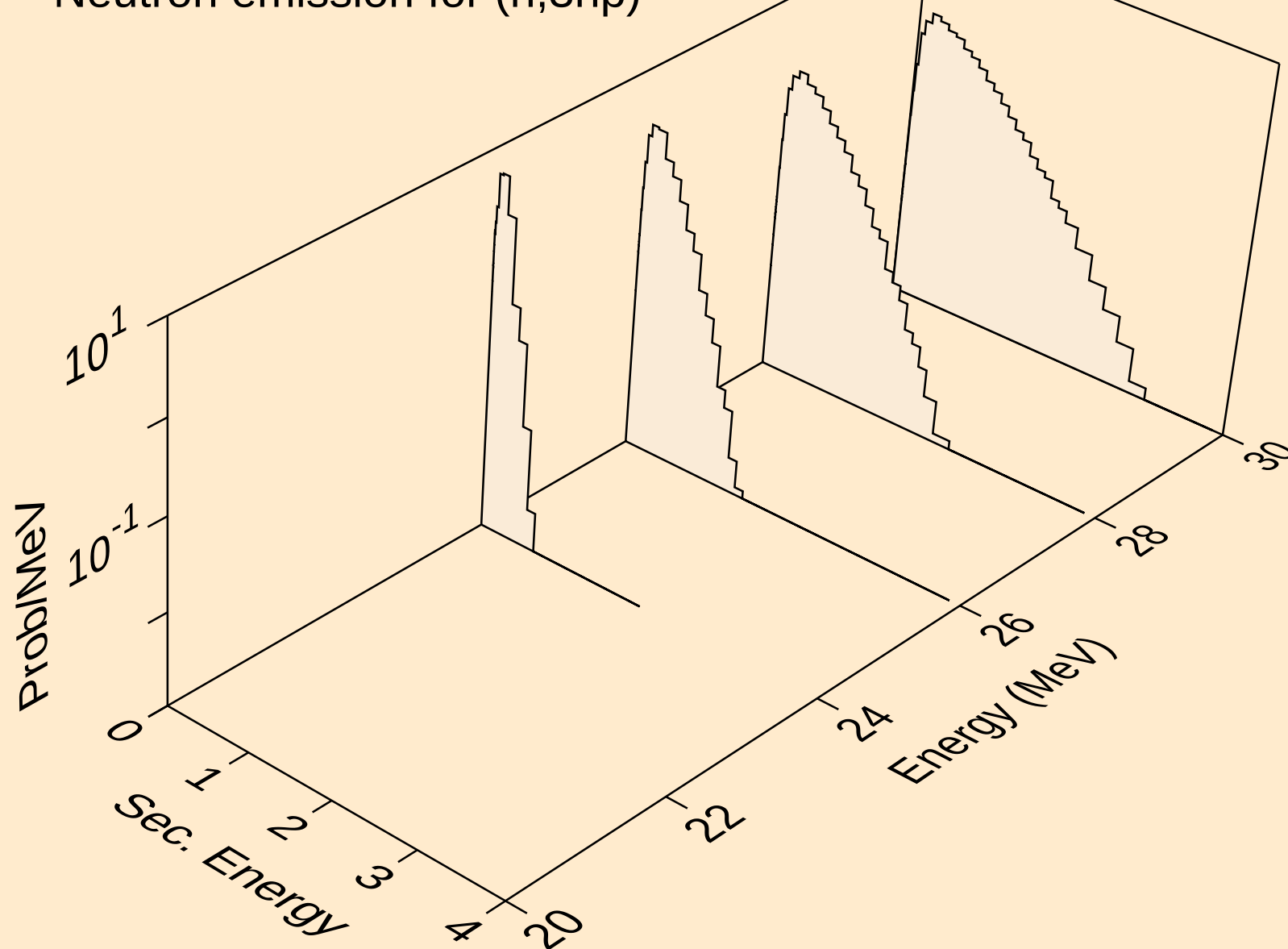
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



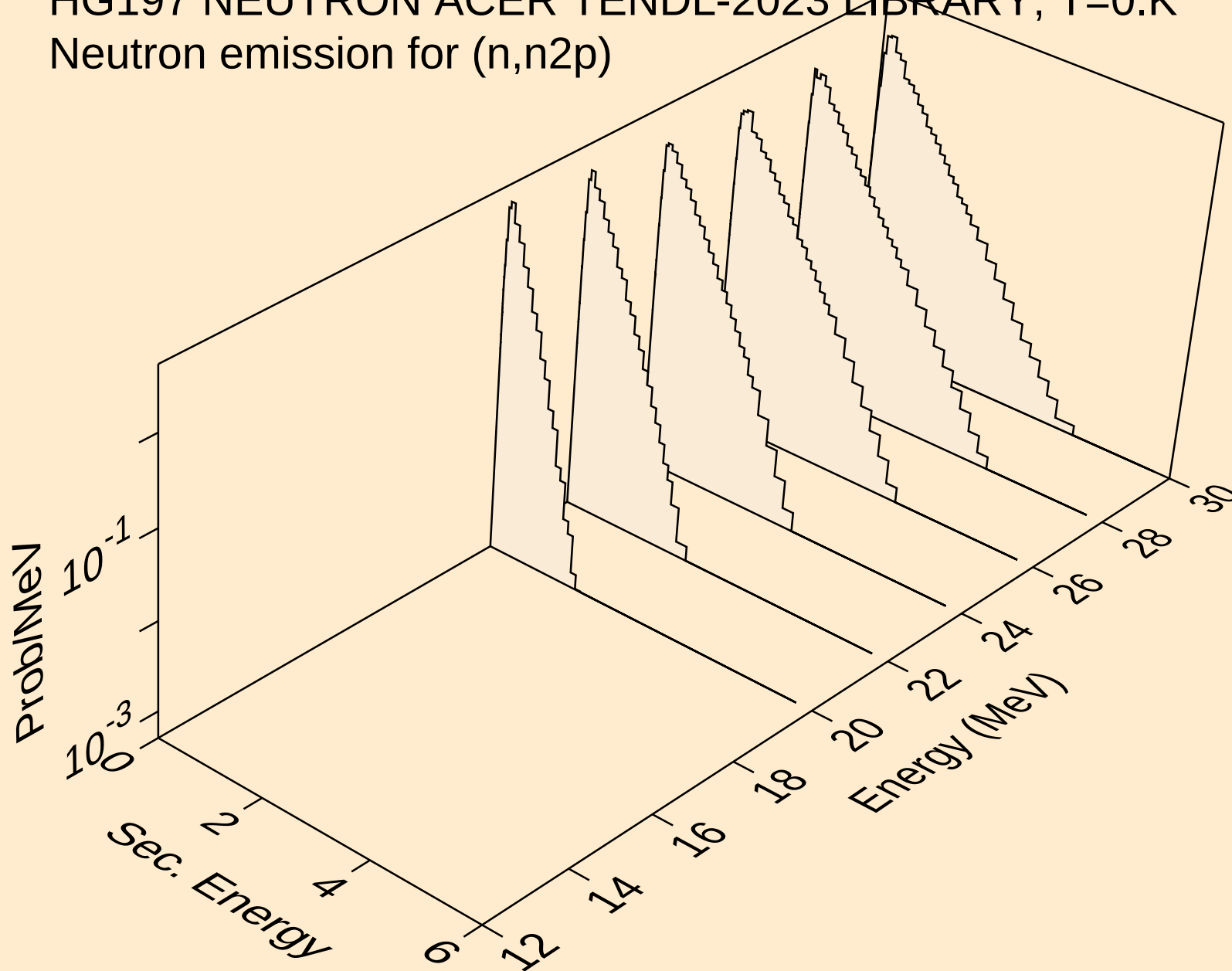
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



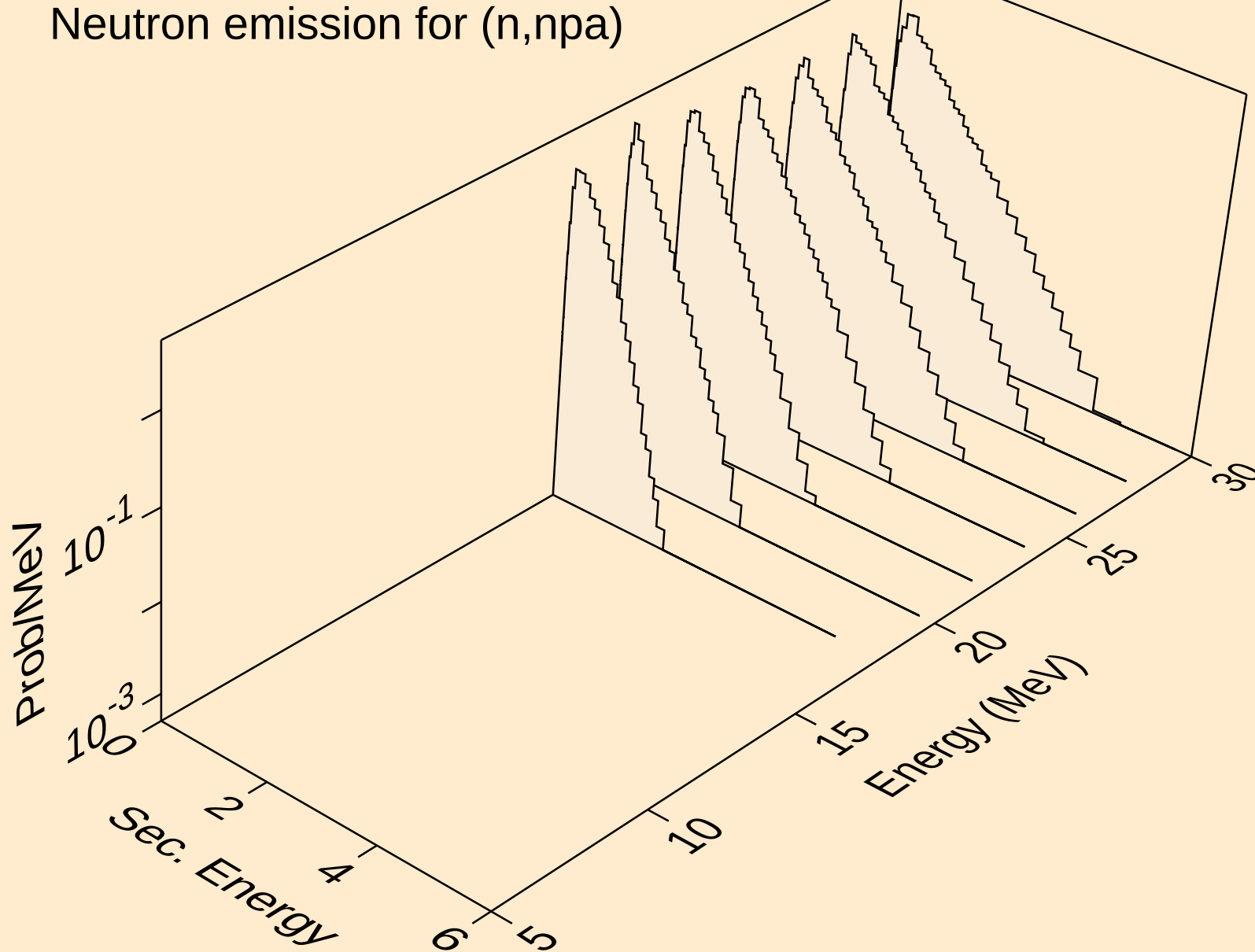
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Neutron emission for (n,3np)



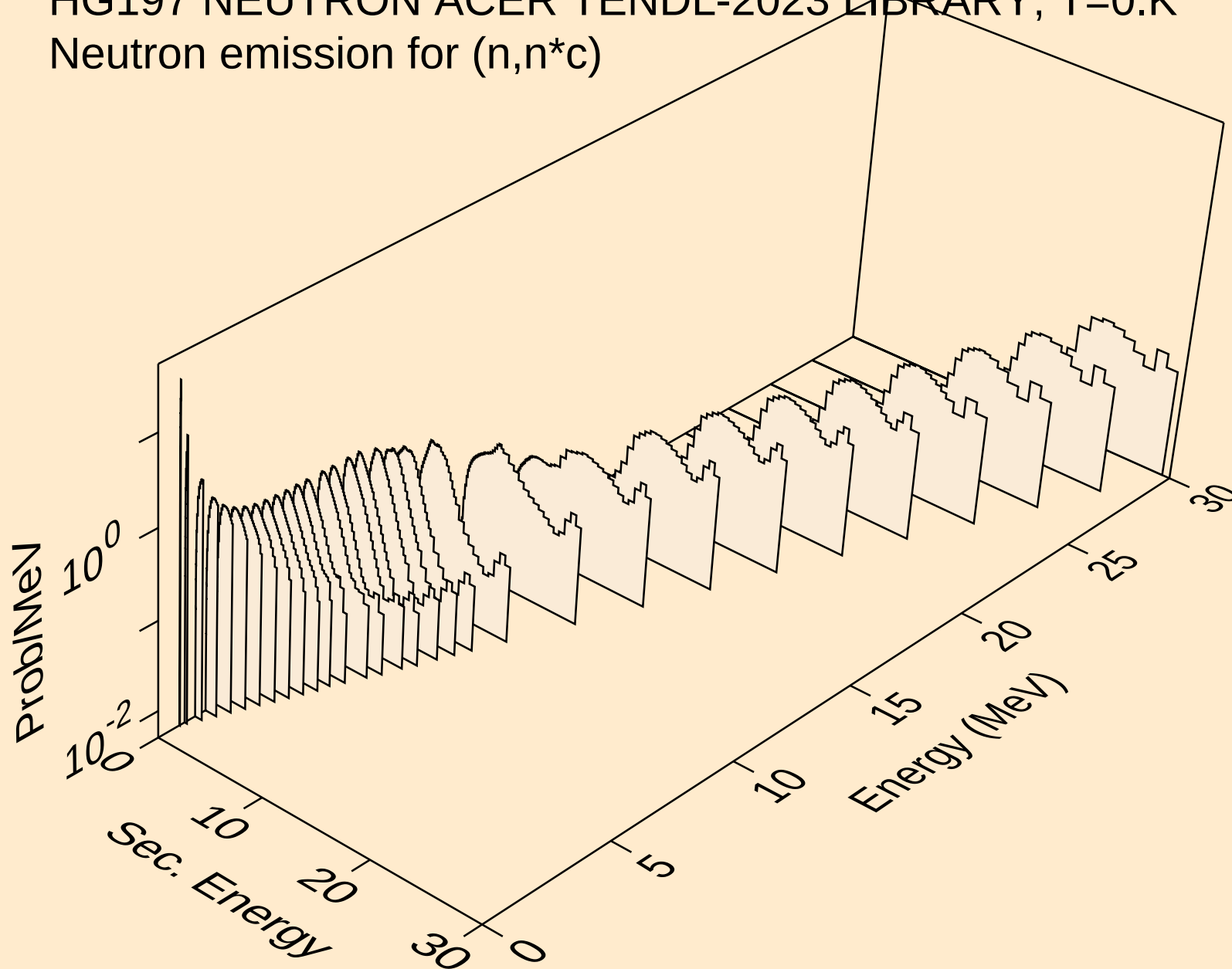
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Neutron emission for (n,n2p)



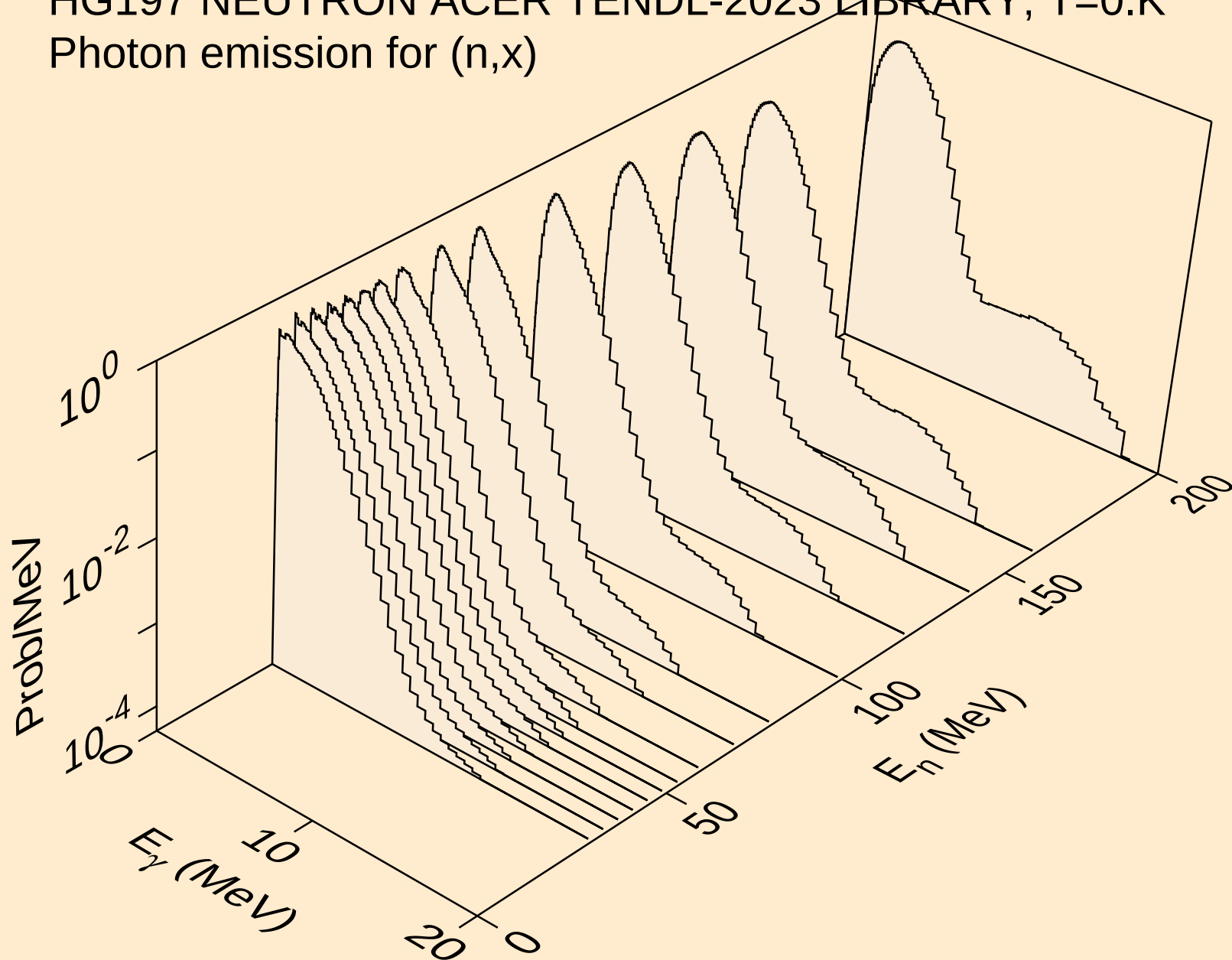
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Neutron emission for (n,npa)



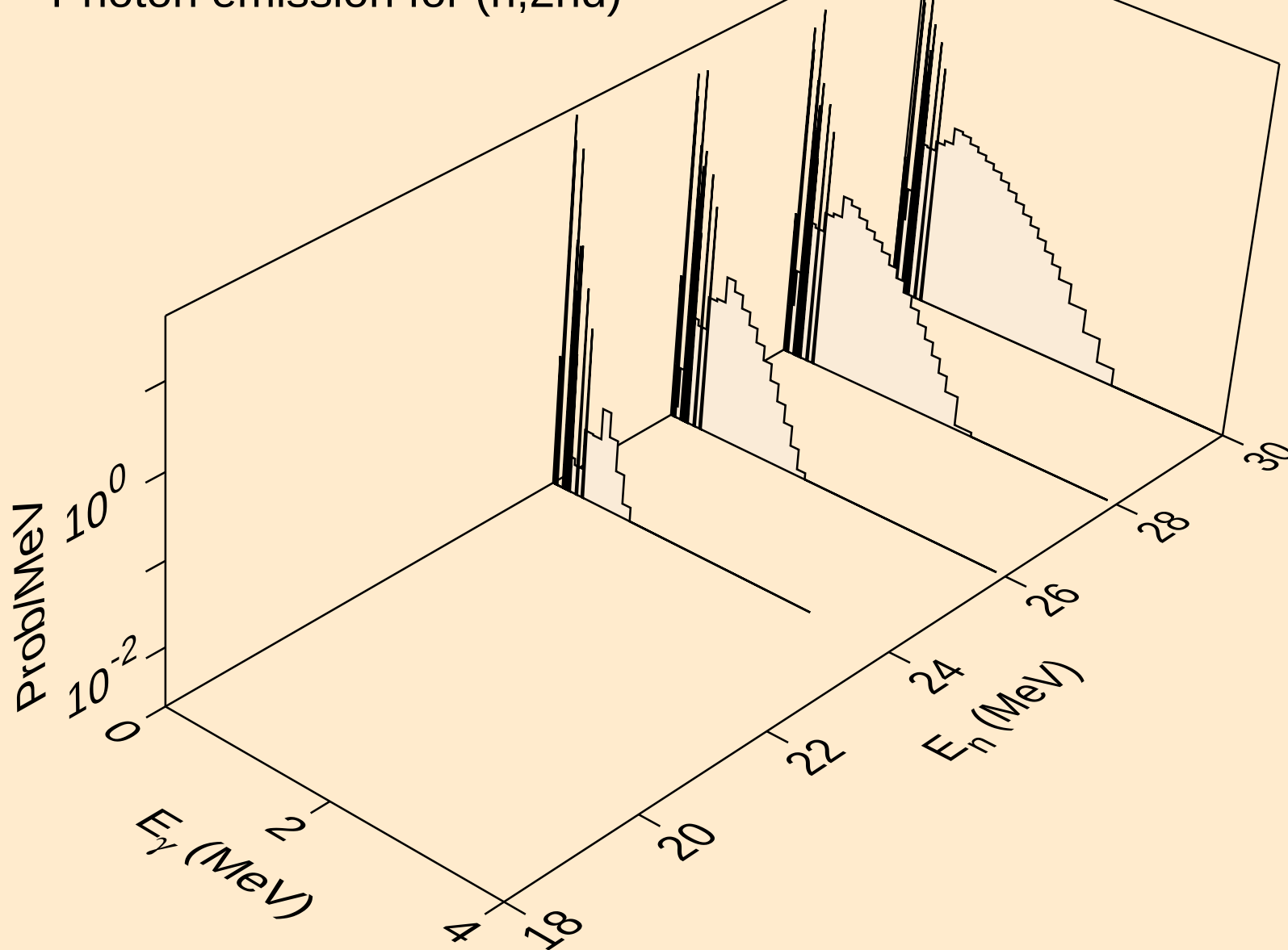
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



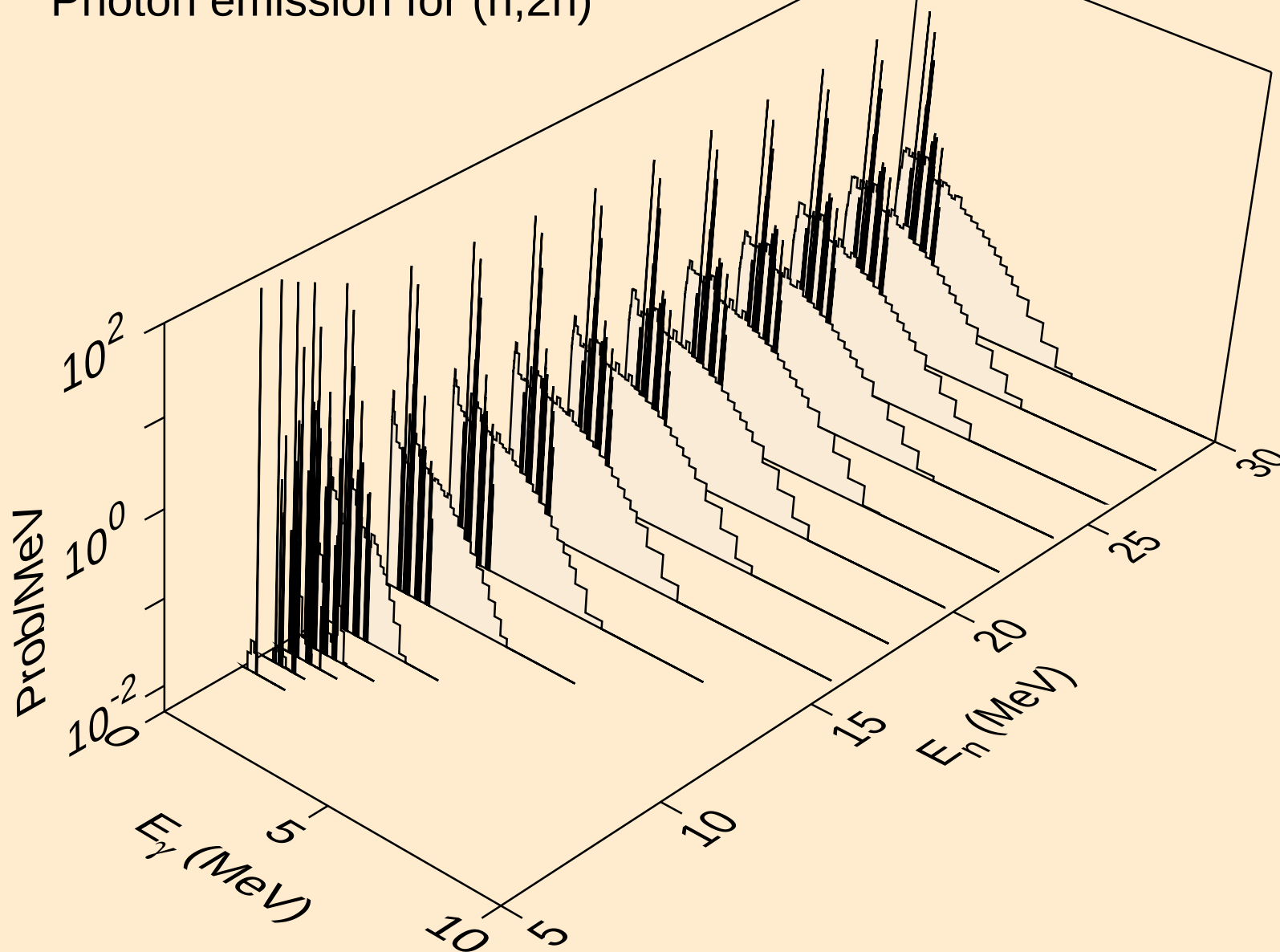
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



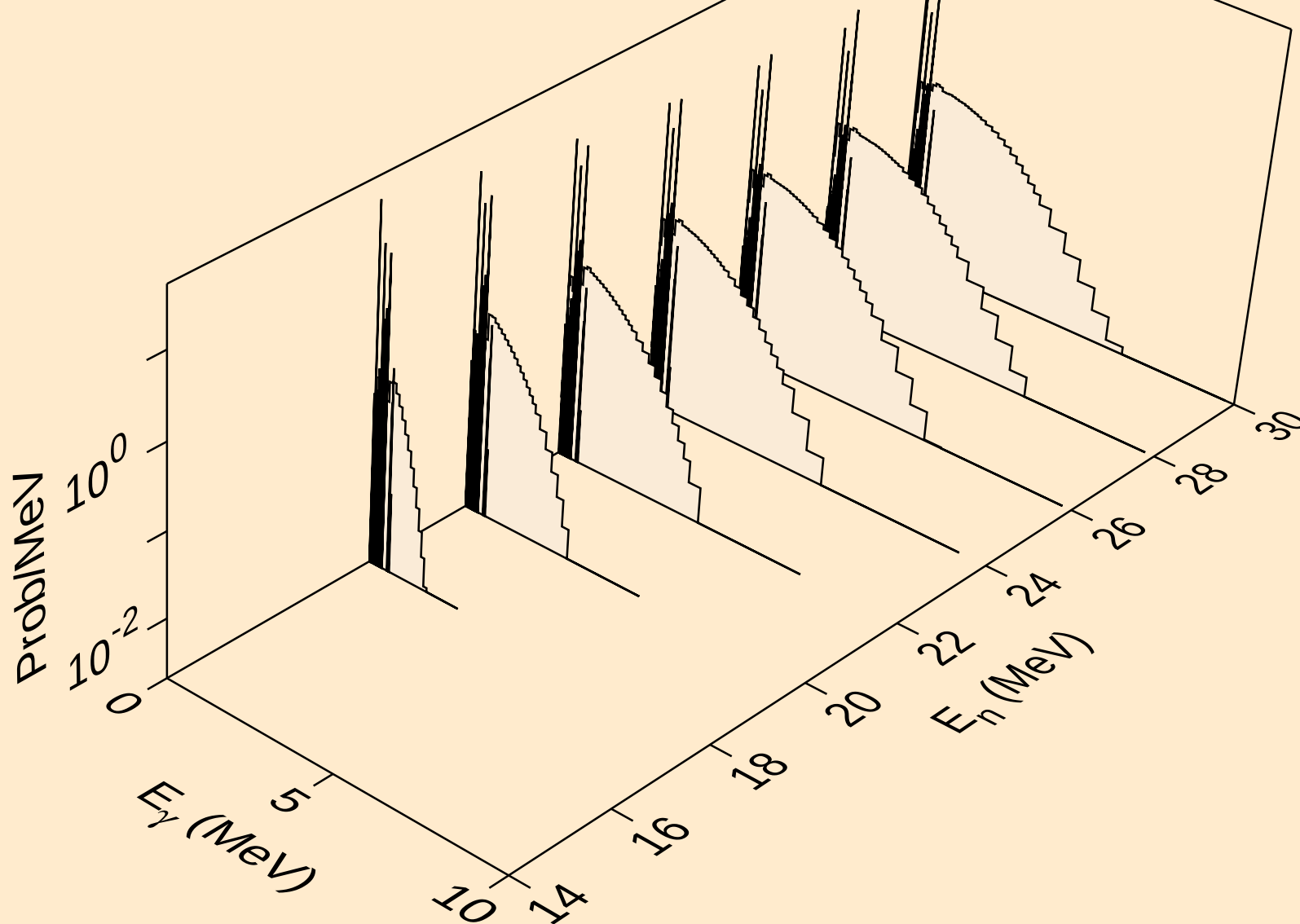
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



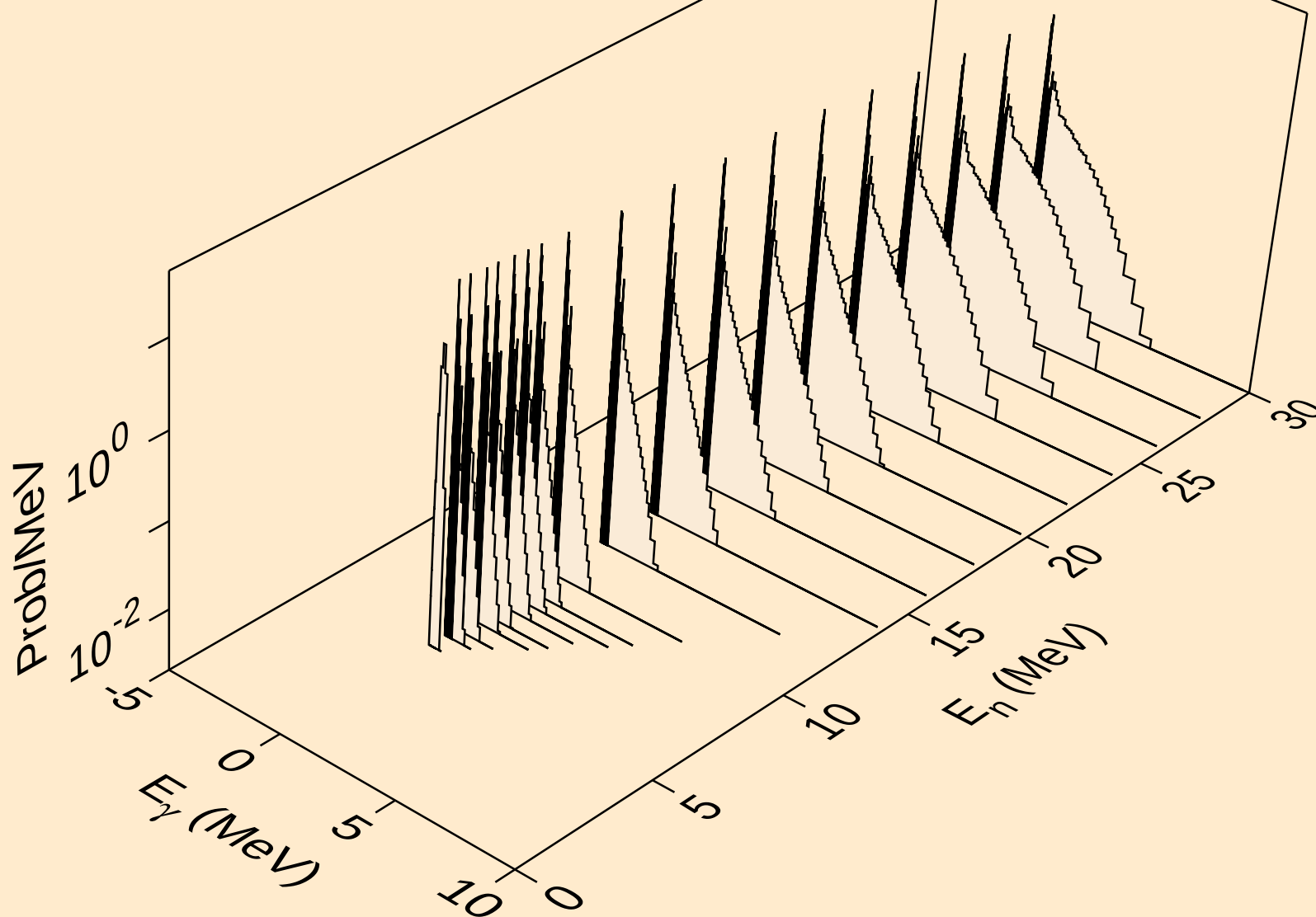
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2n)



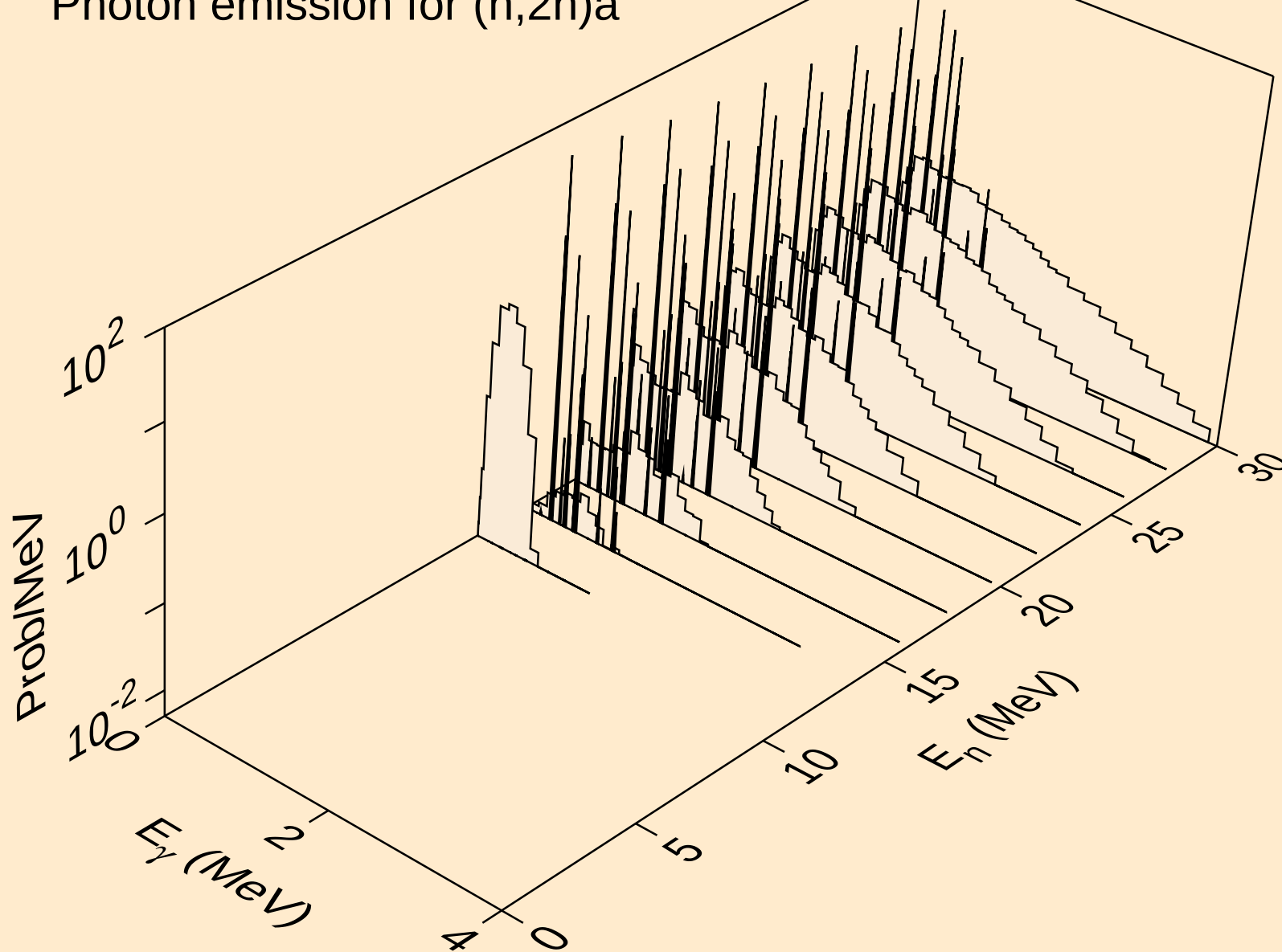
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,3n)



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

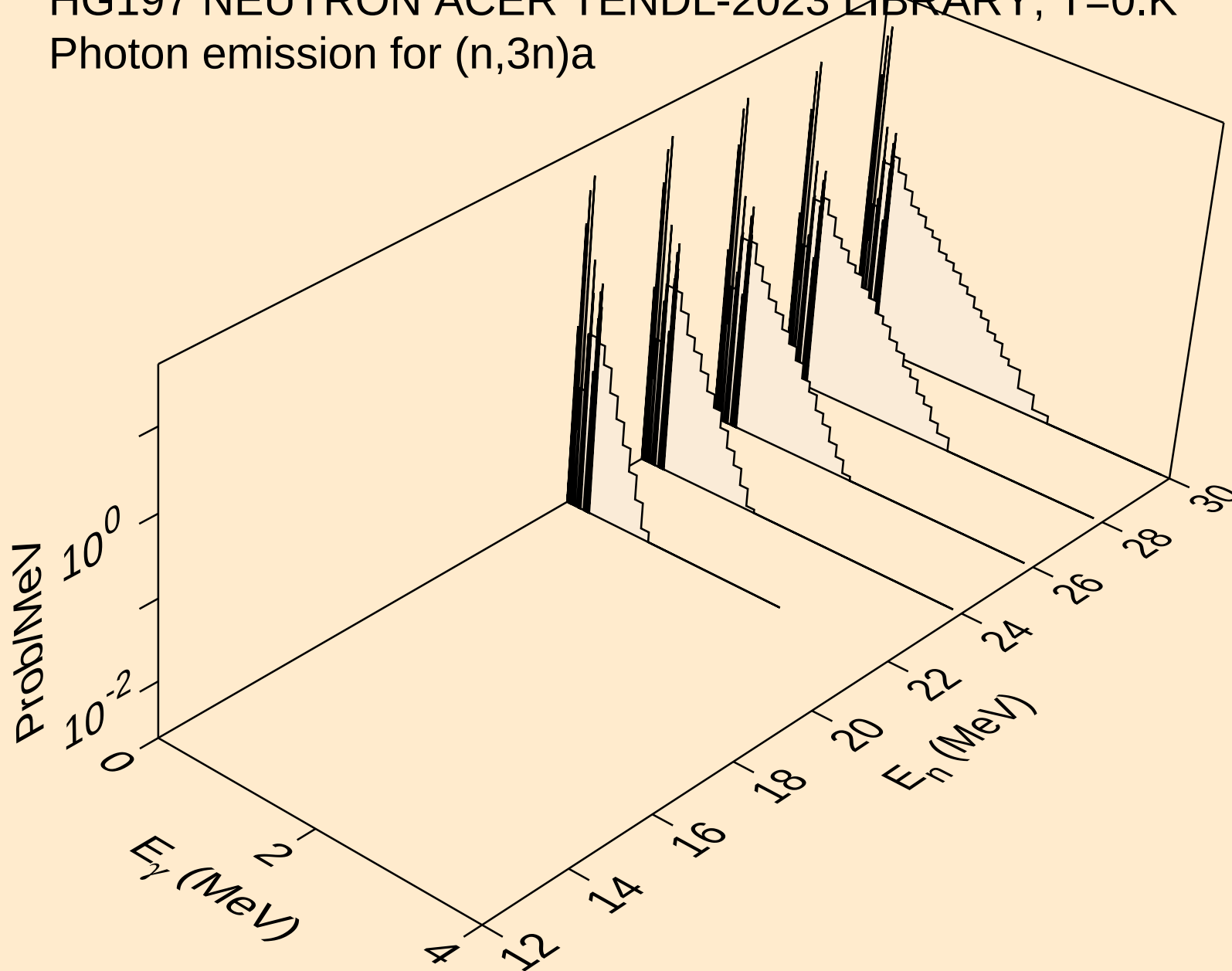


HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2n) $\alpha$

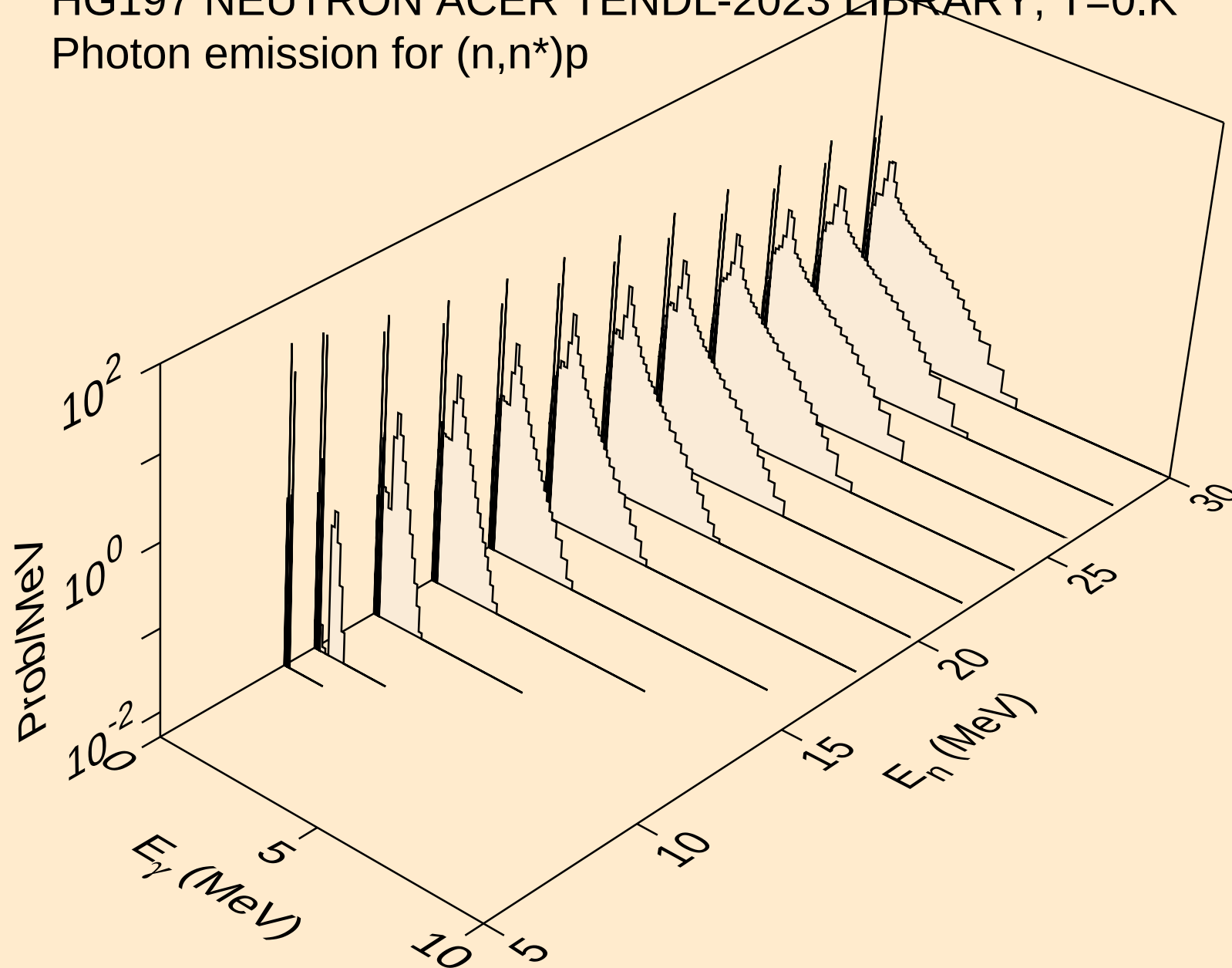


HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

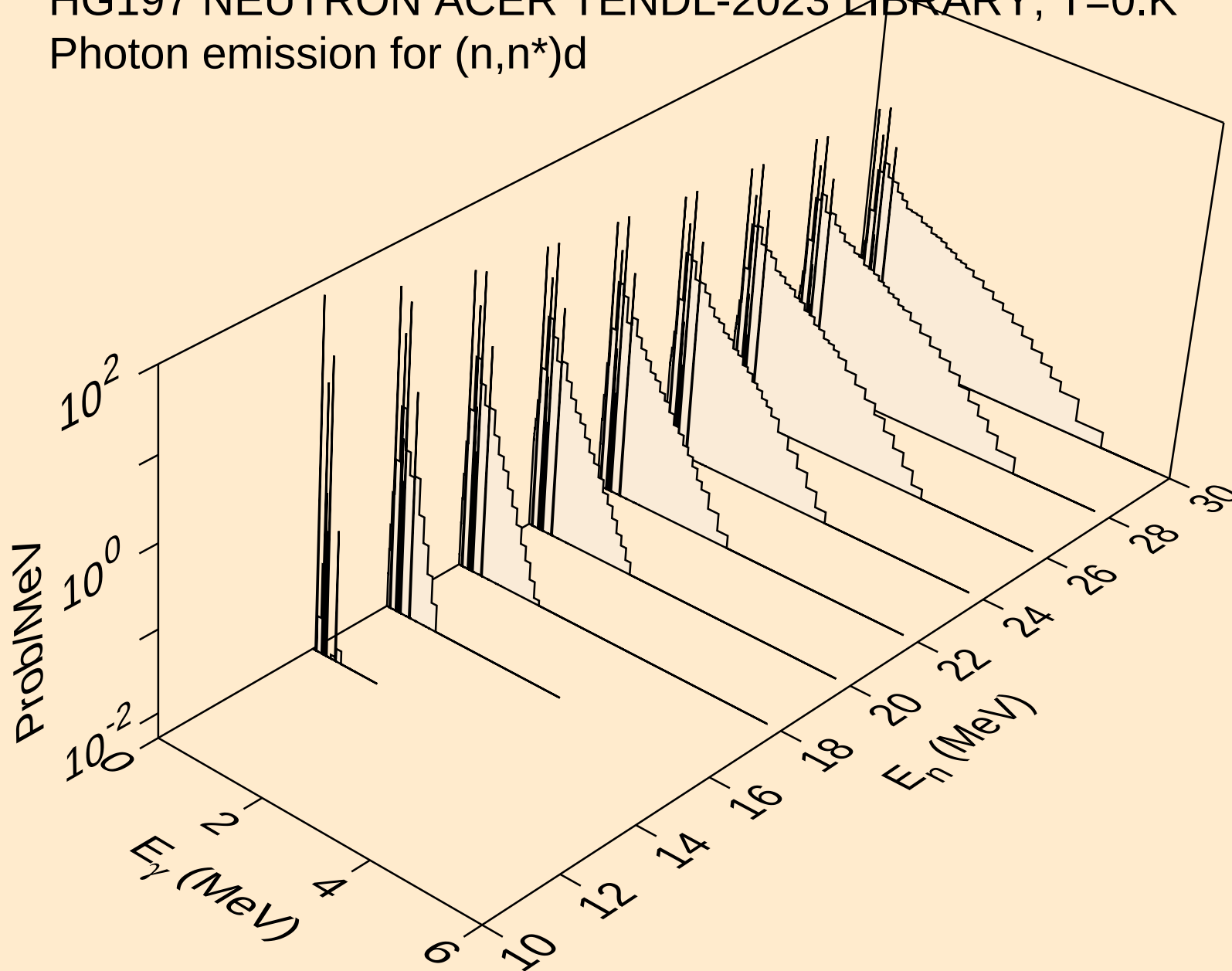
Photon emission for (n,3n)a



HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for  $(n,n^*)p$

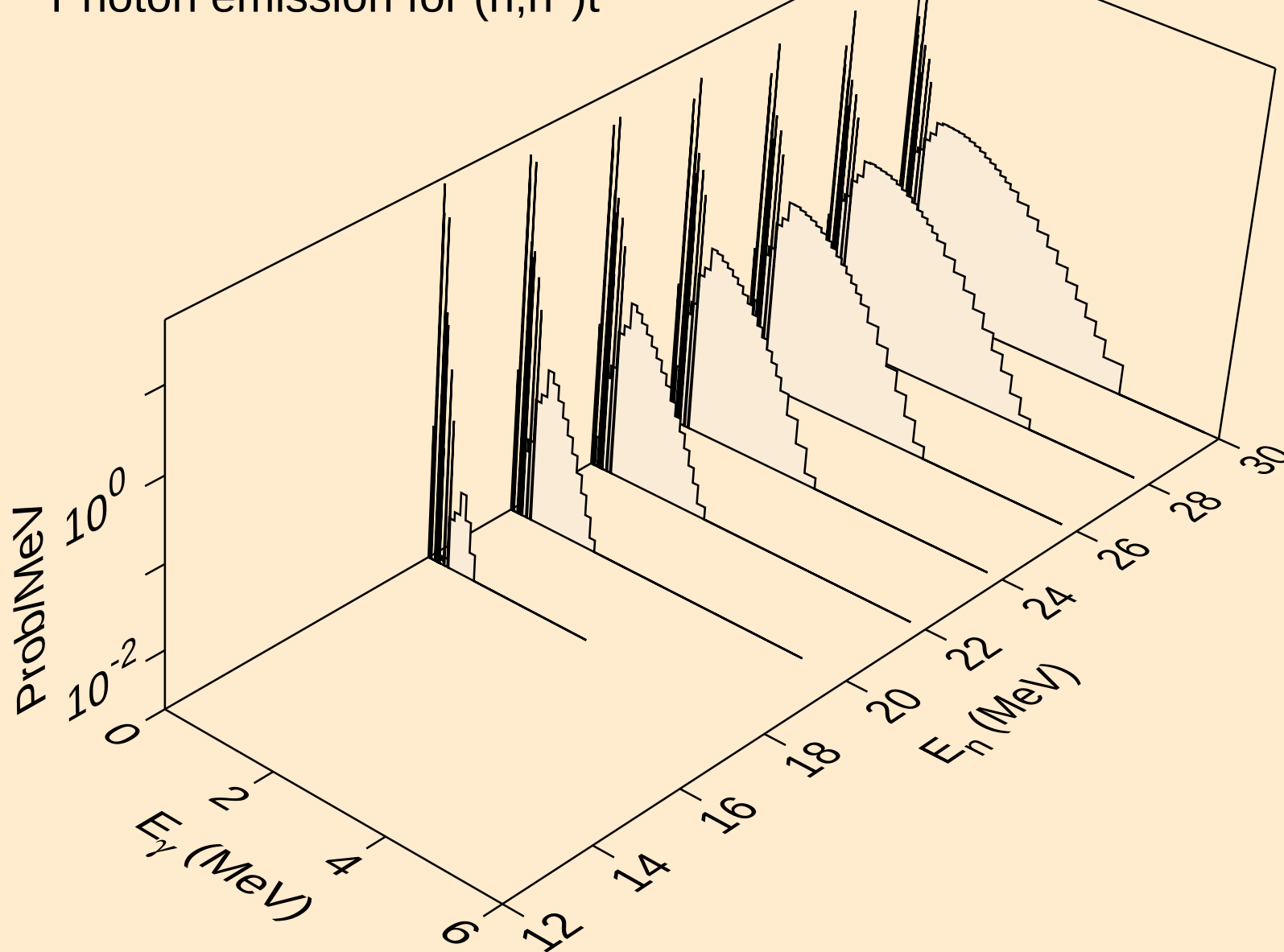


HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for  $(n,n^*)d$

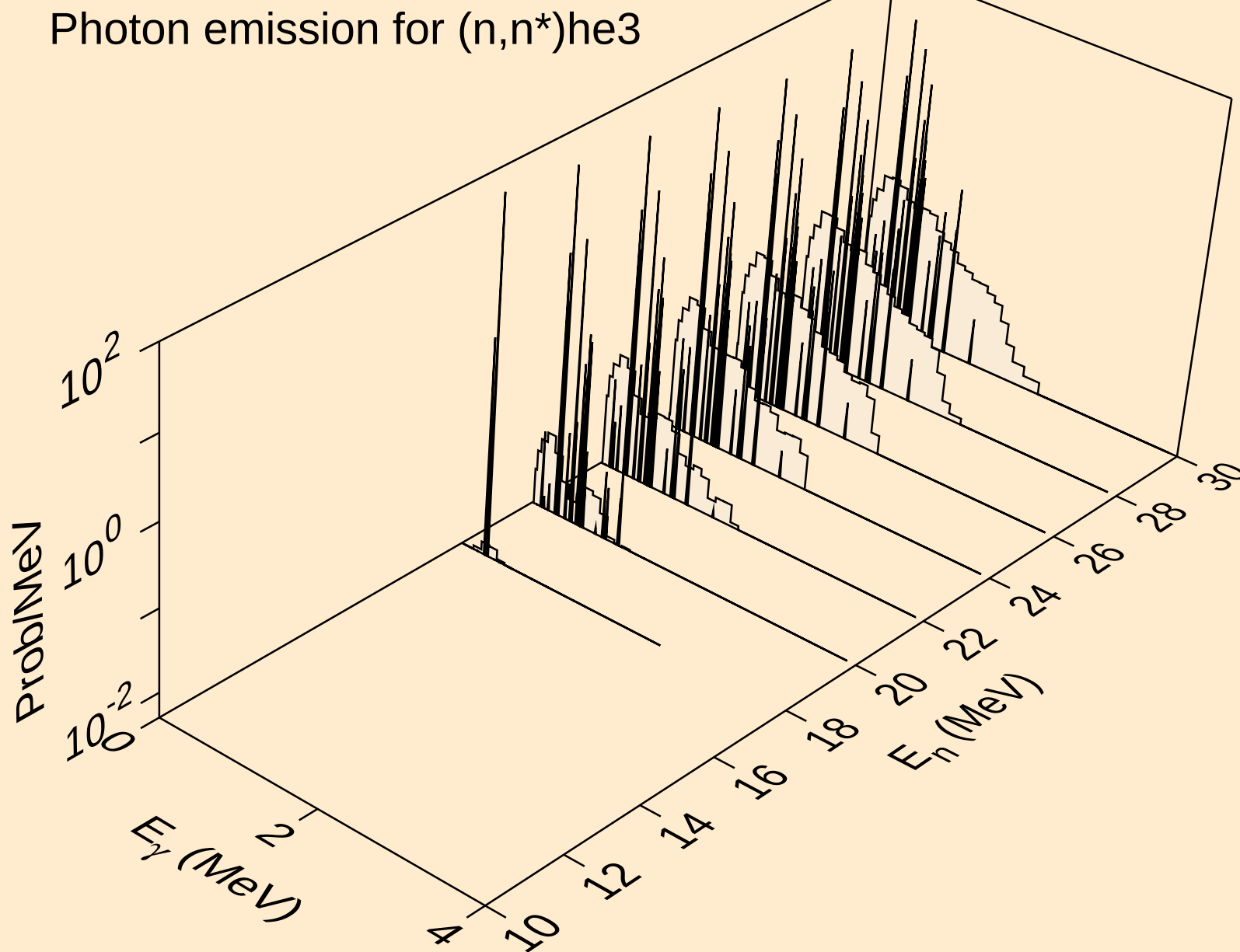


HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

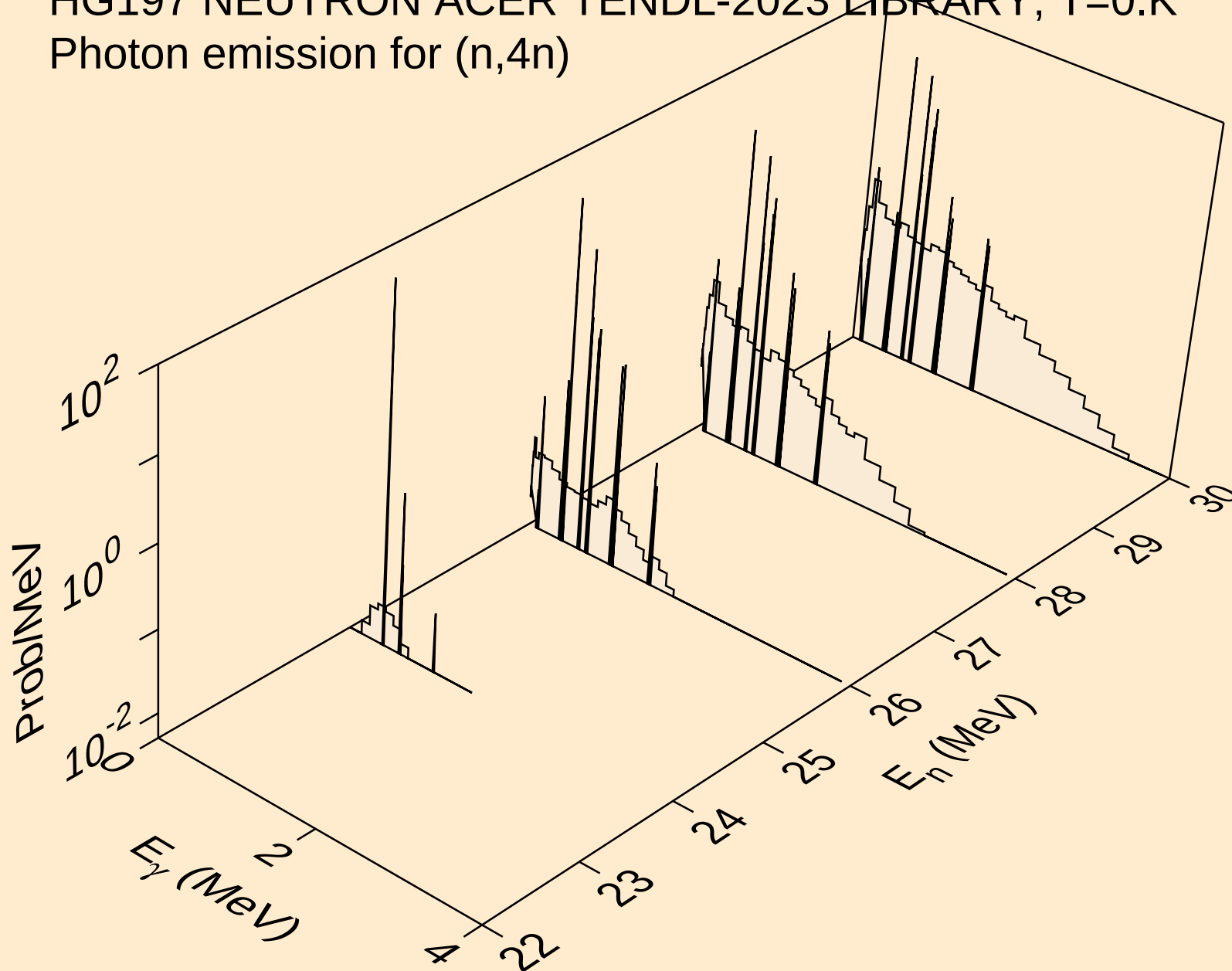
Photon emission for (n,n\*)t



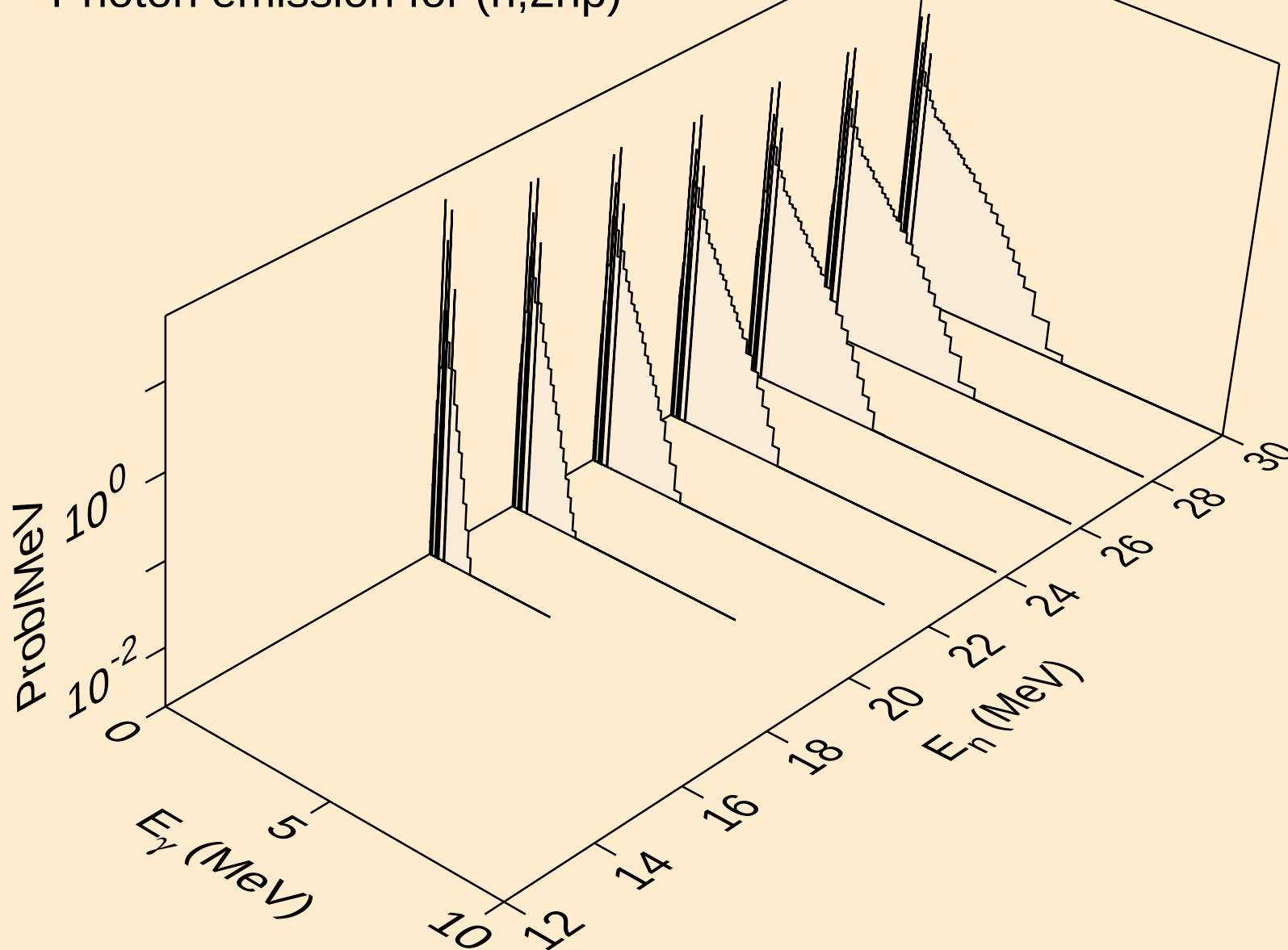
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



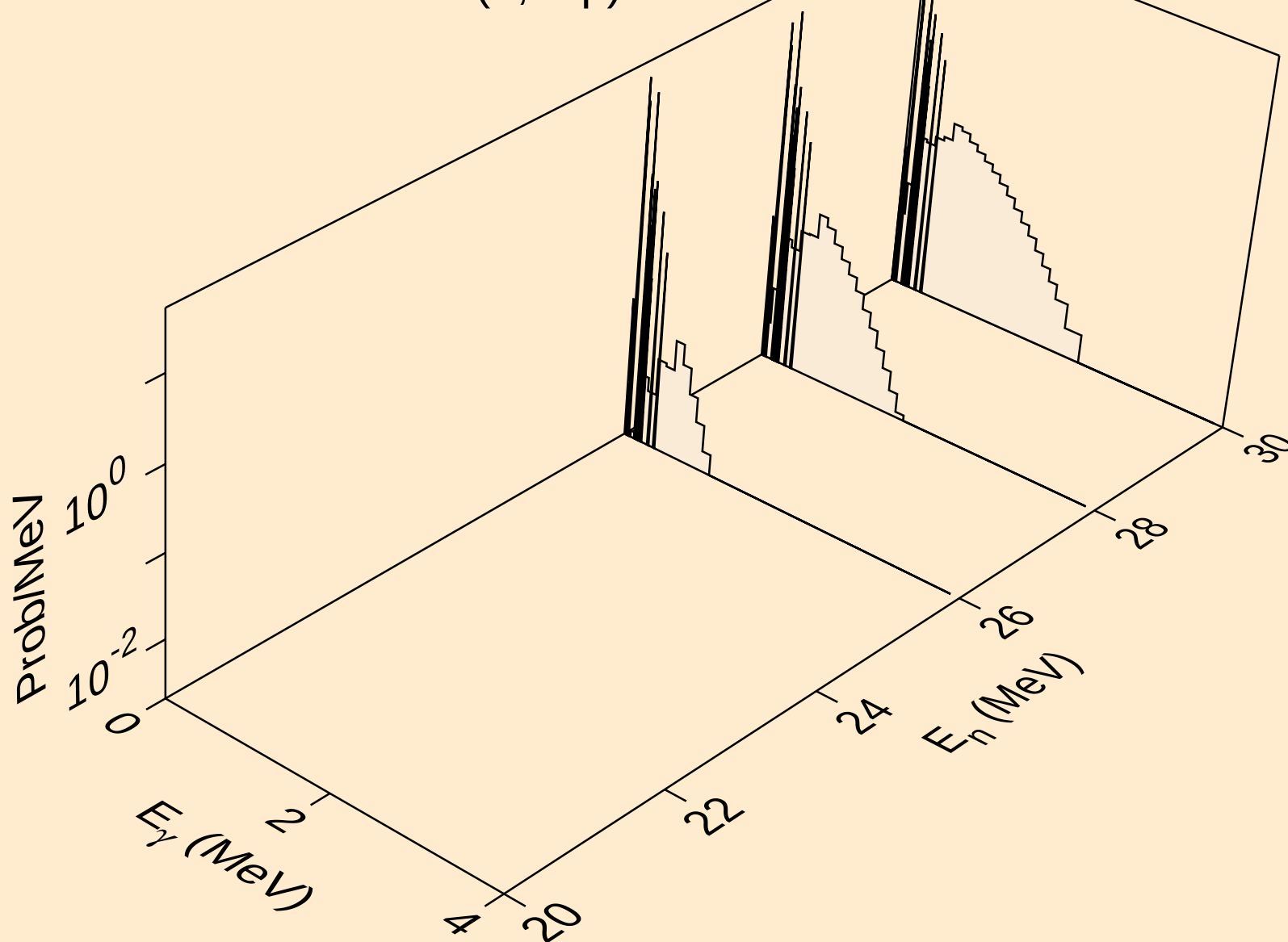
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,4n)



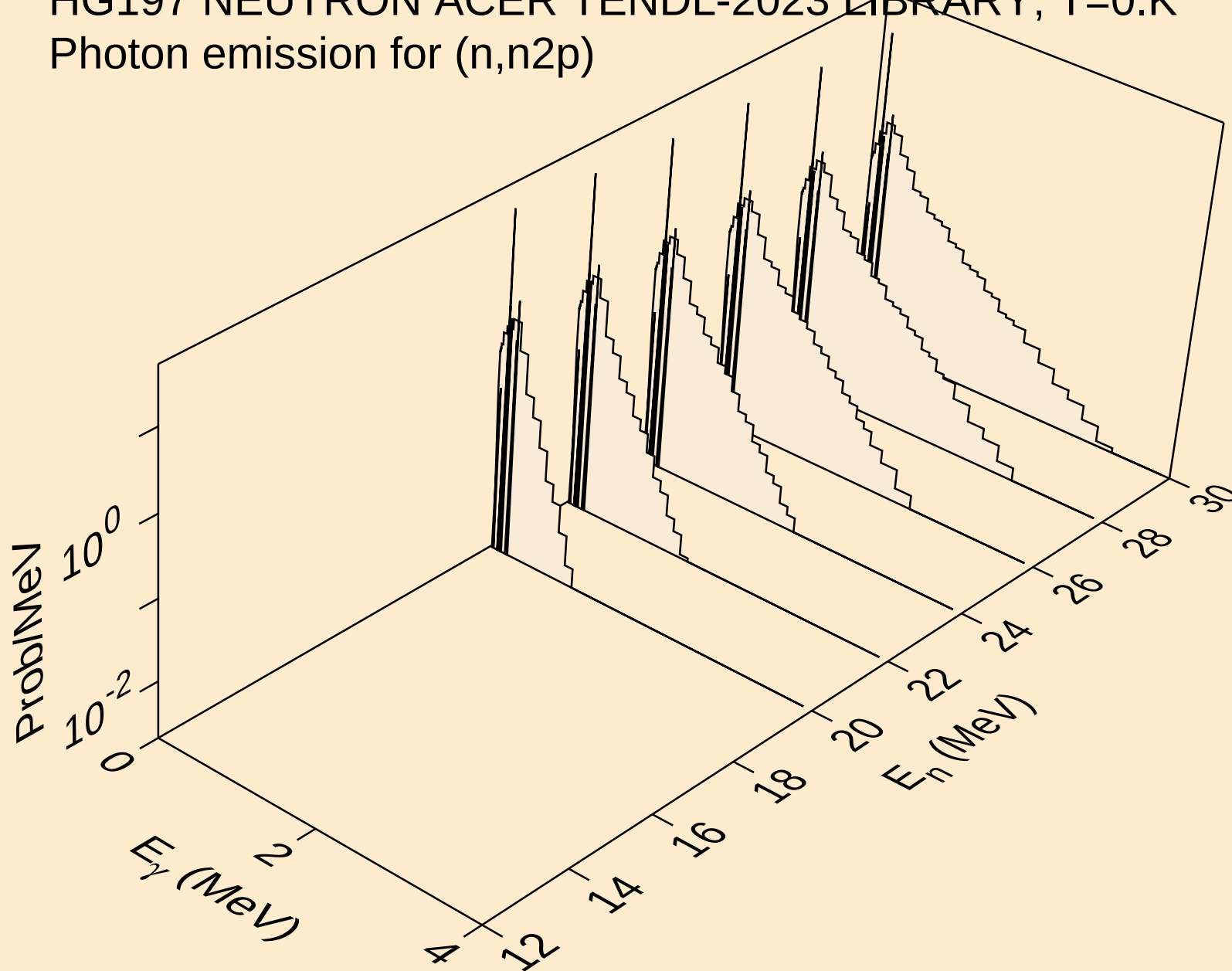
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



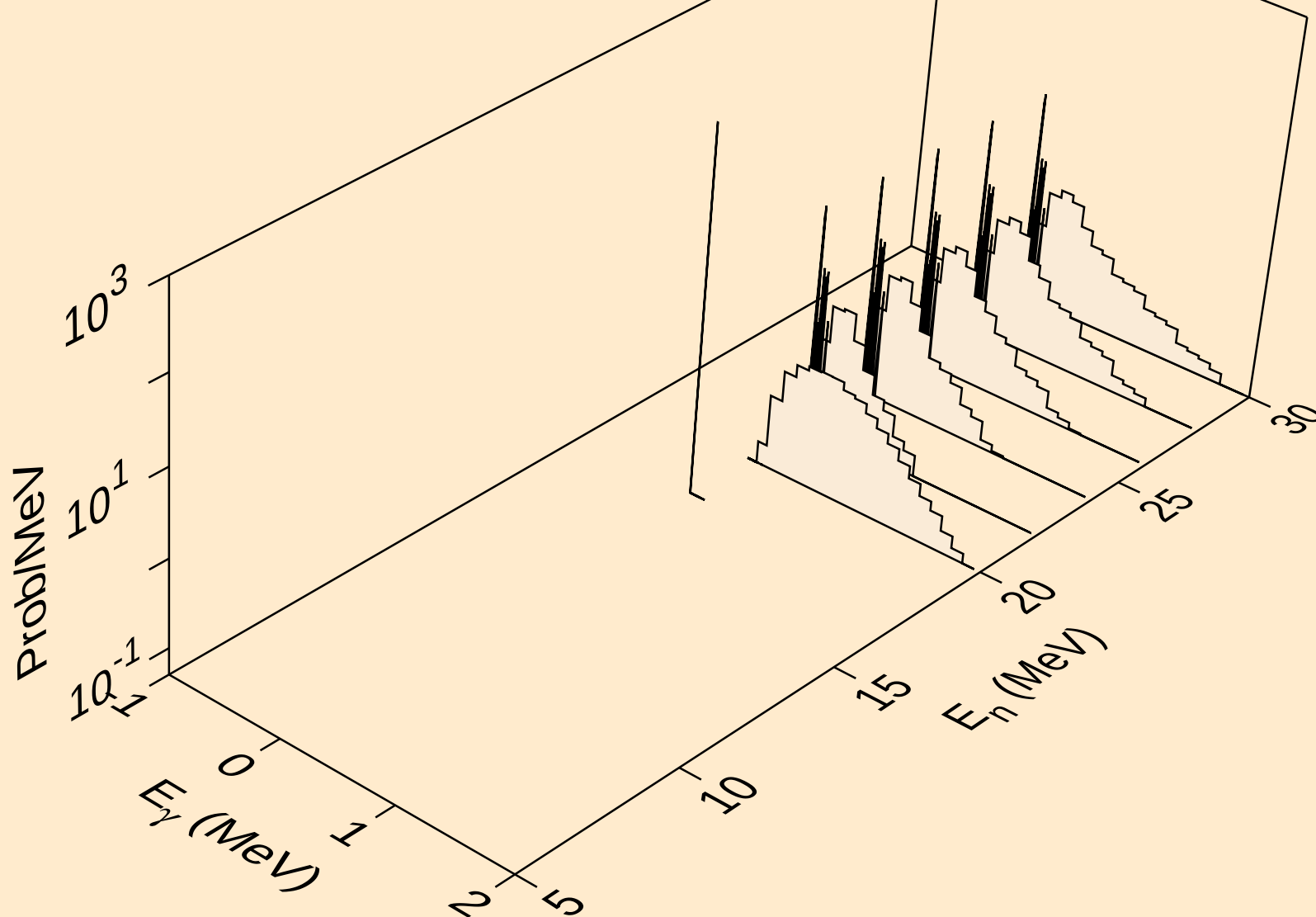
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



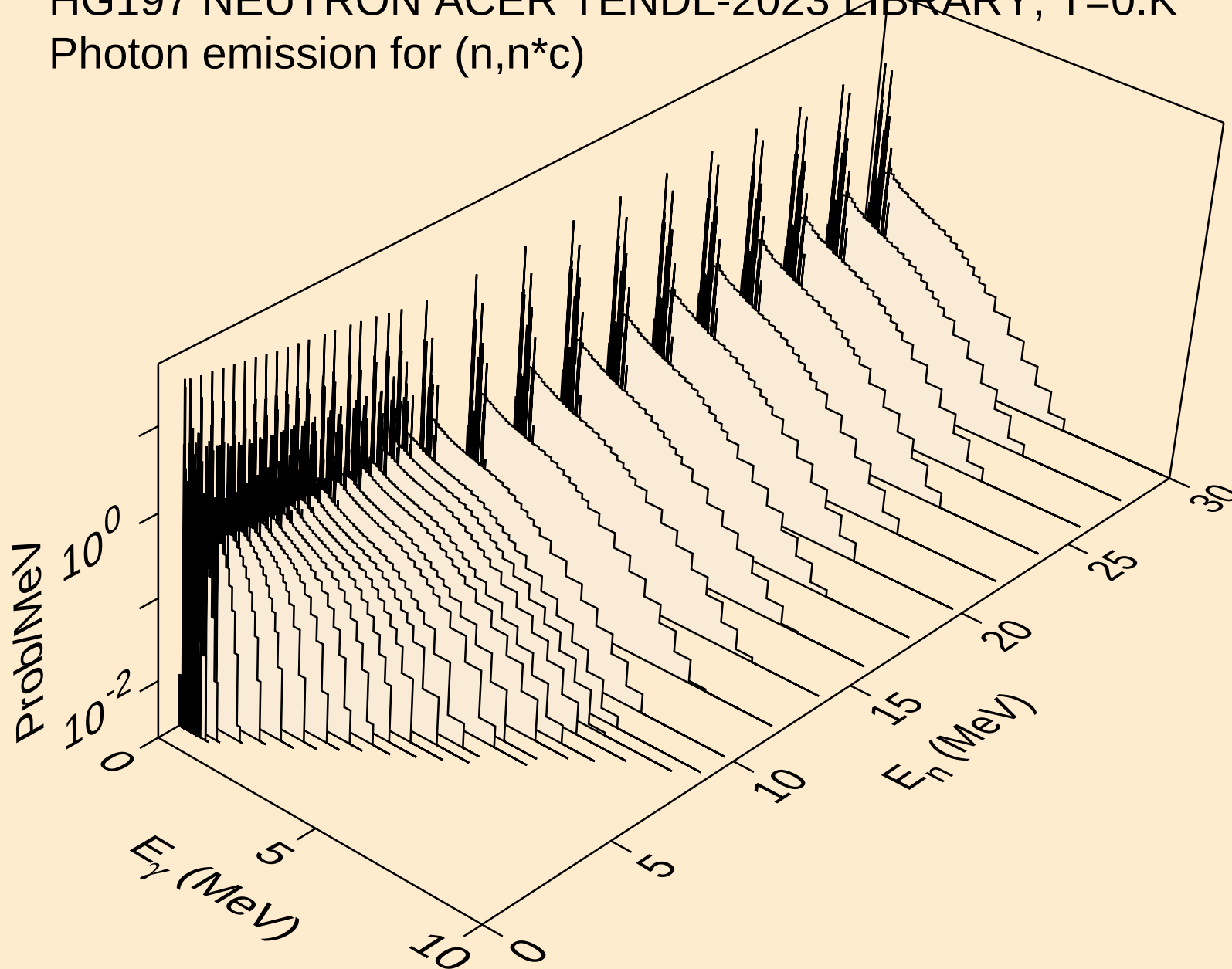
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,n2p)



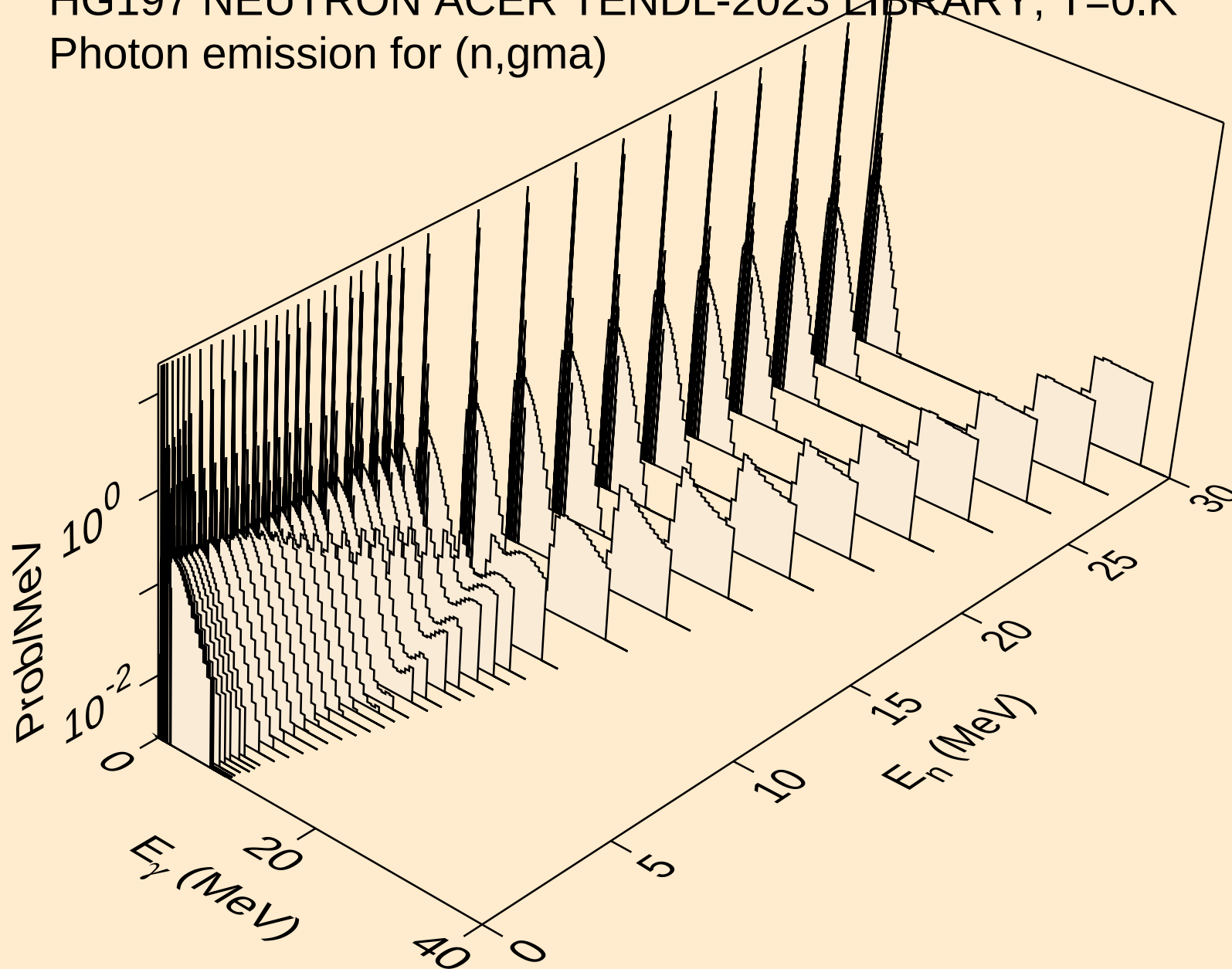
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



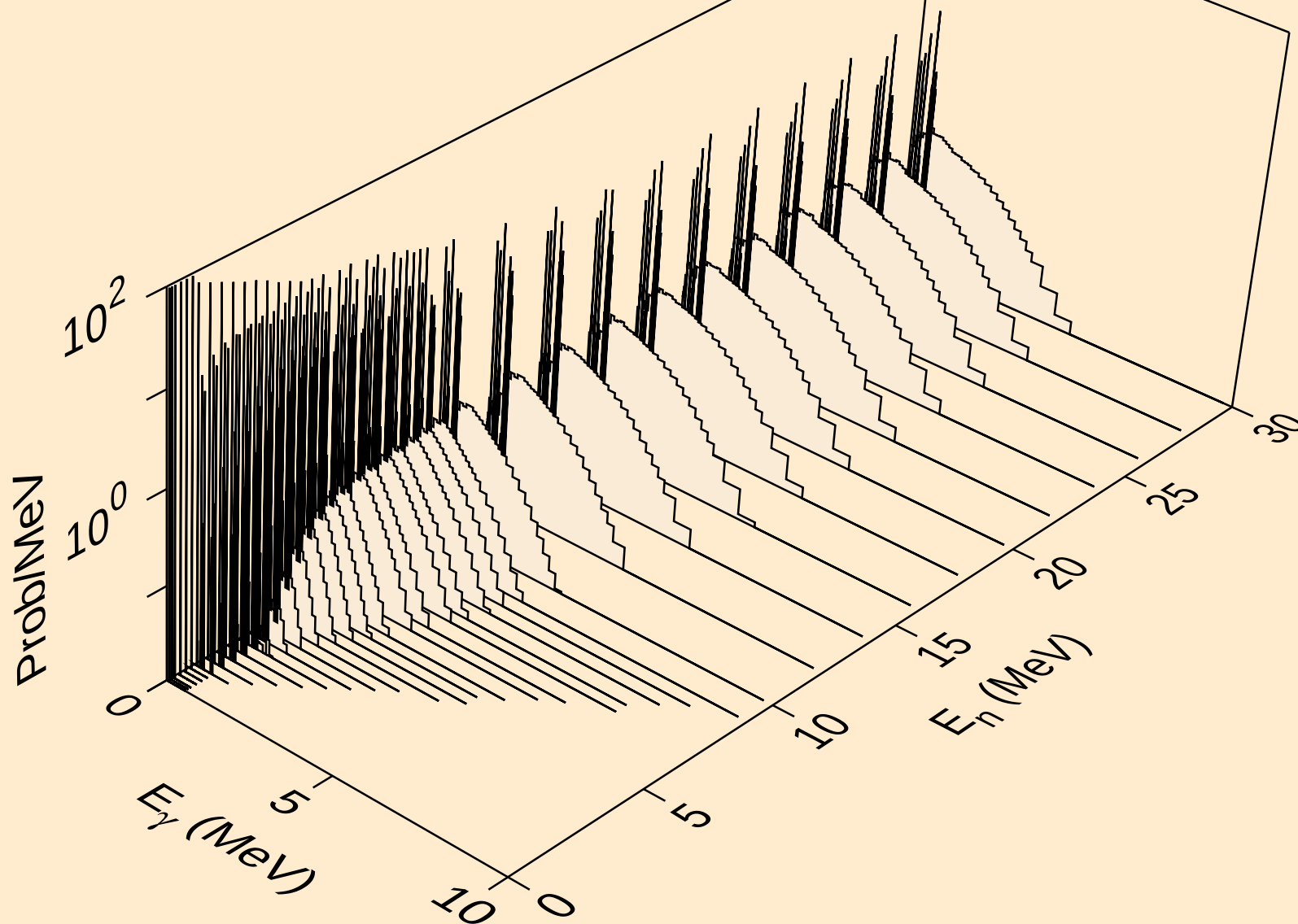
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,n\*c)



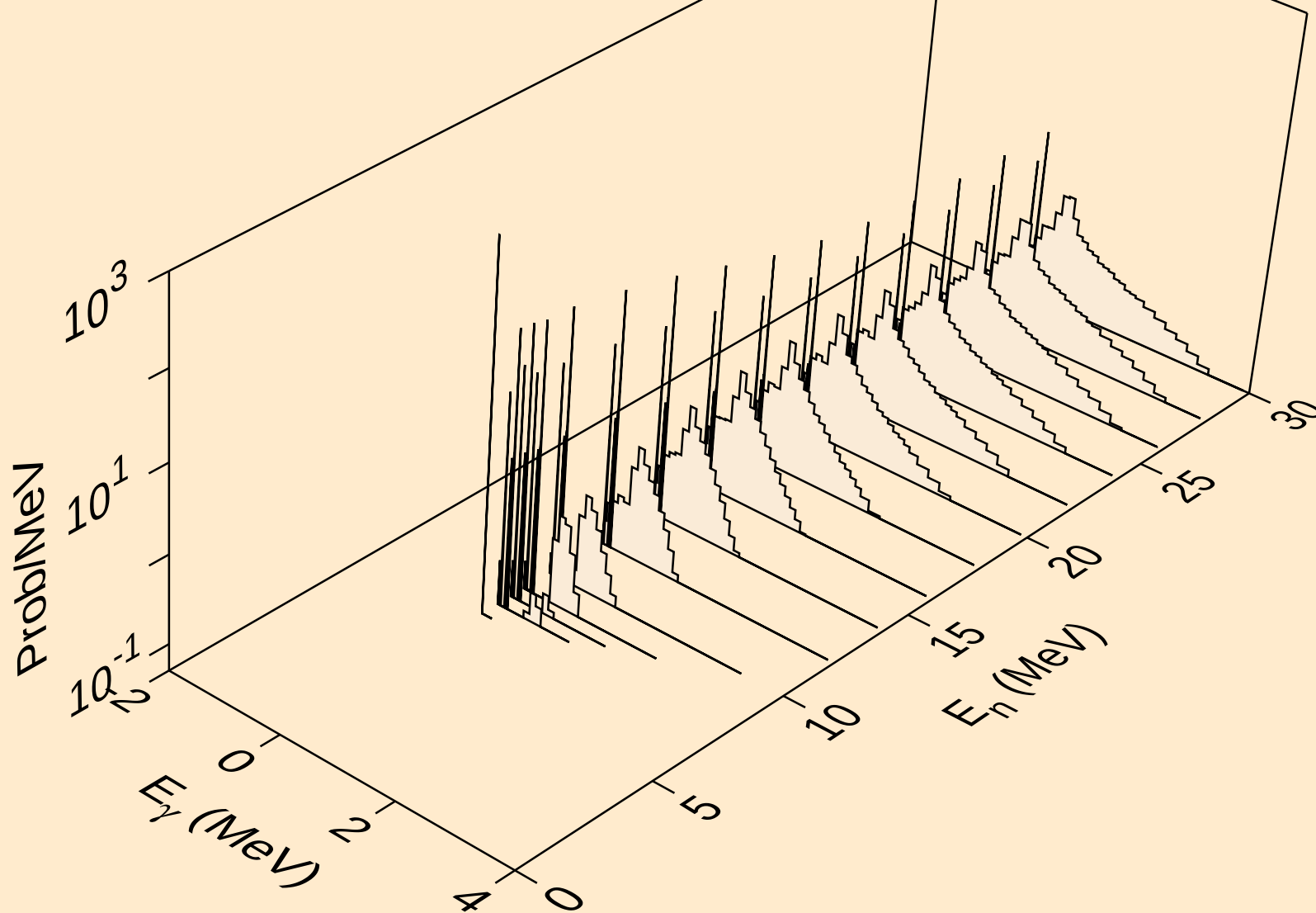
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Photon emission for (n,gma)



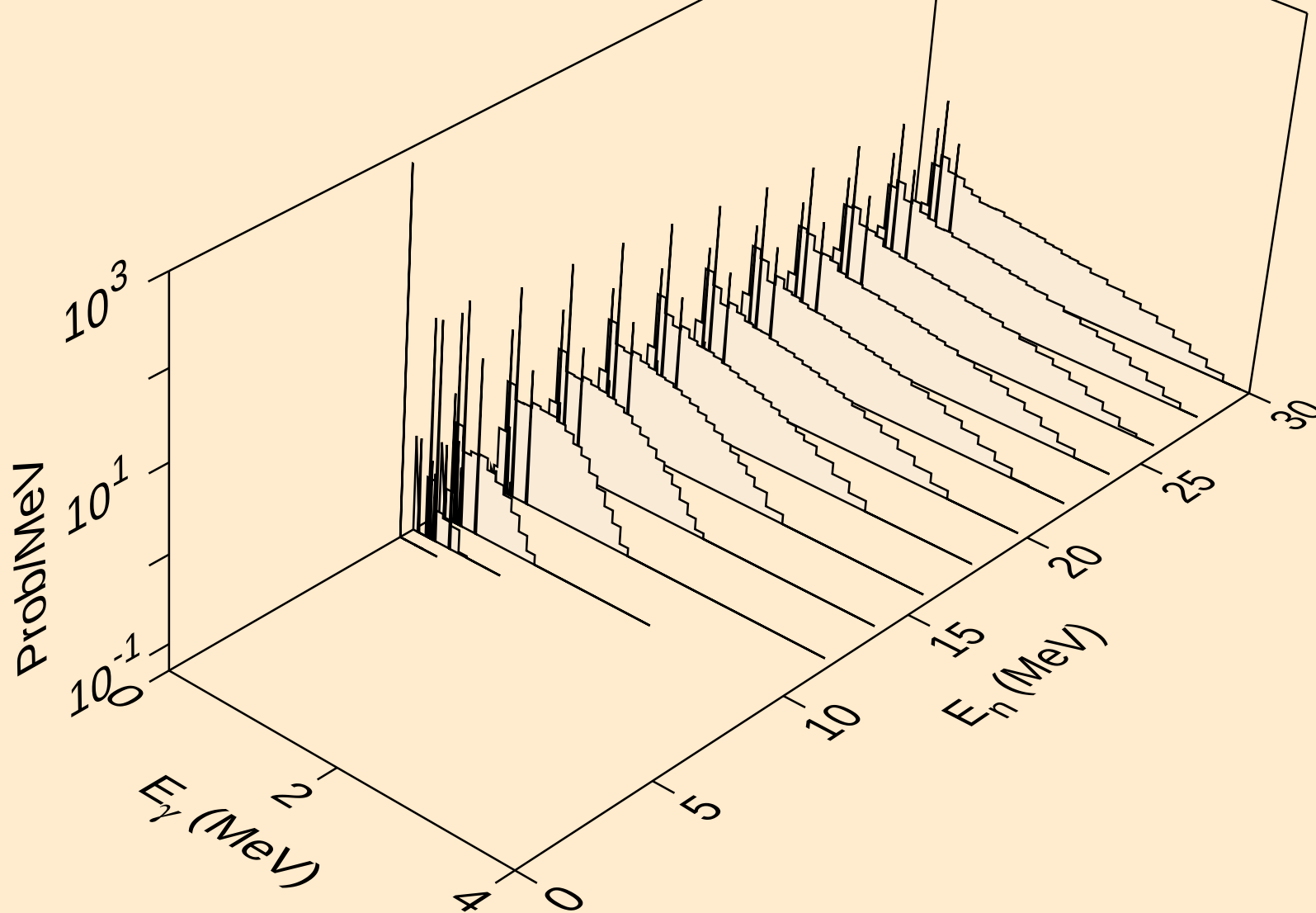
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,p)



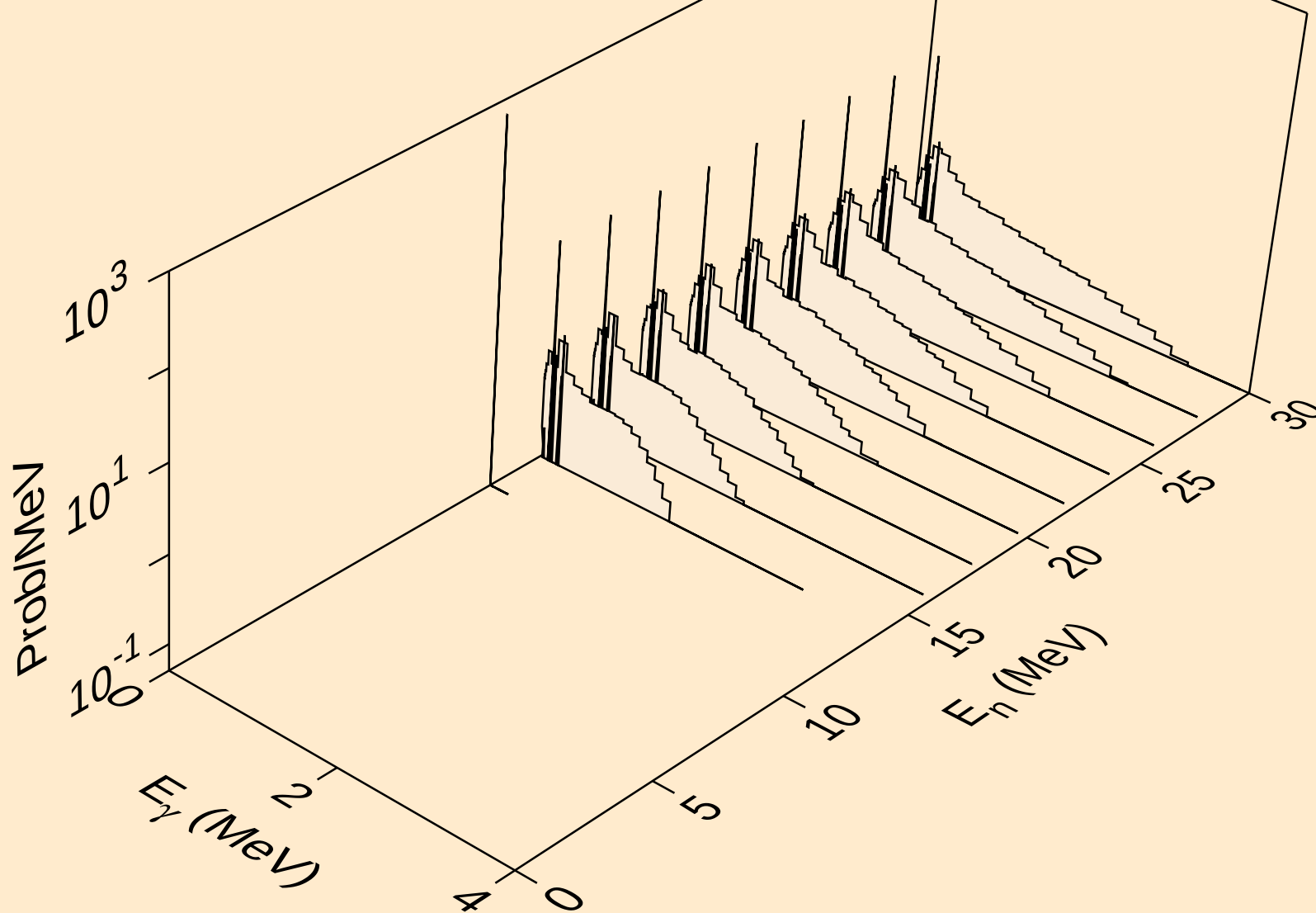
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,d)



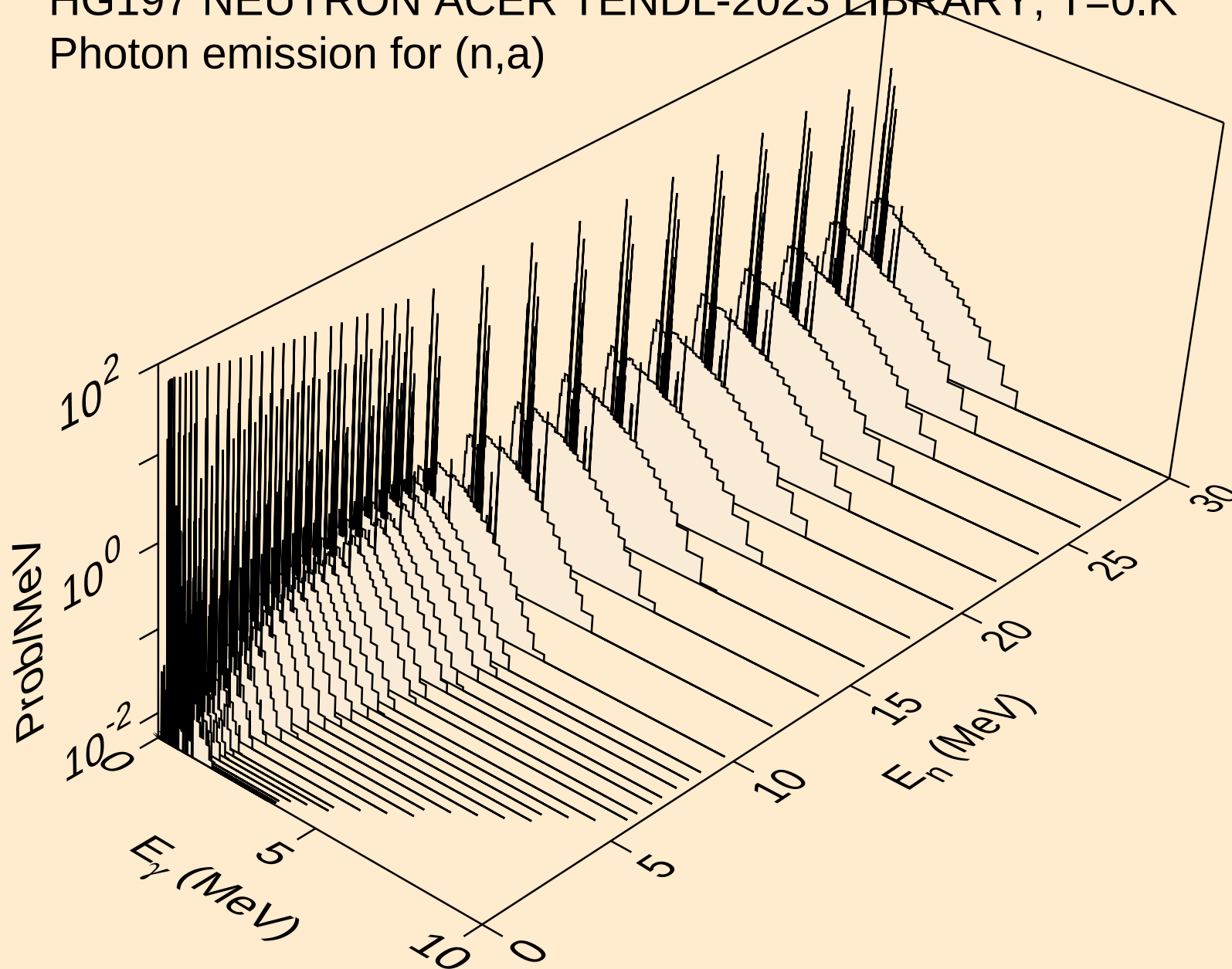
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Photon emission for (n,t)



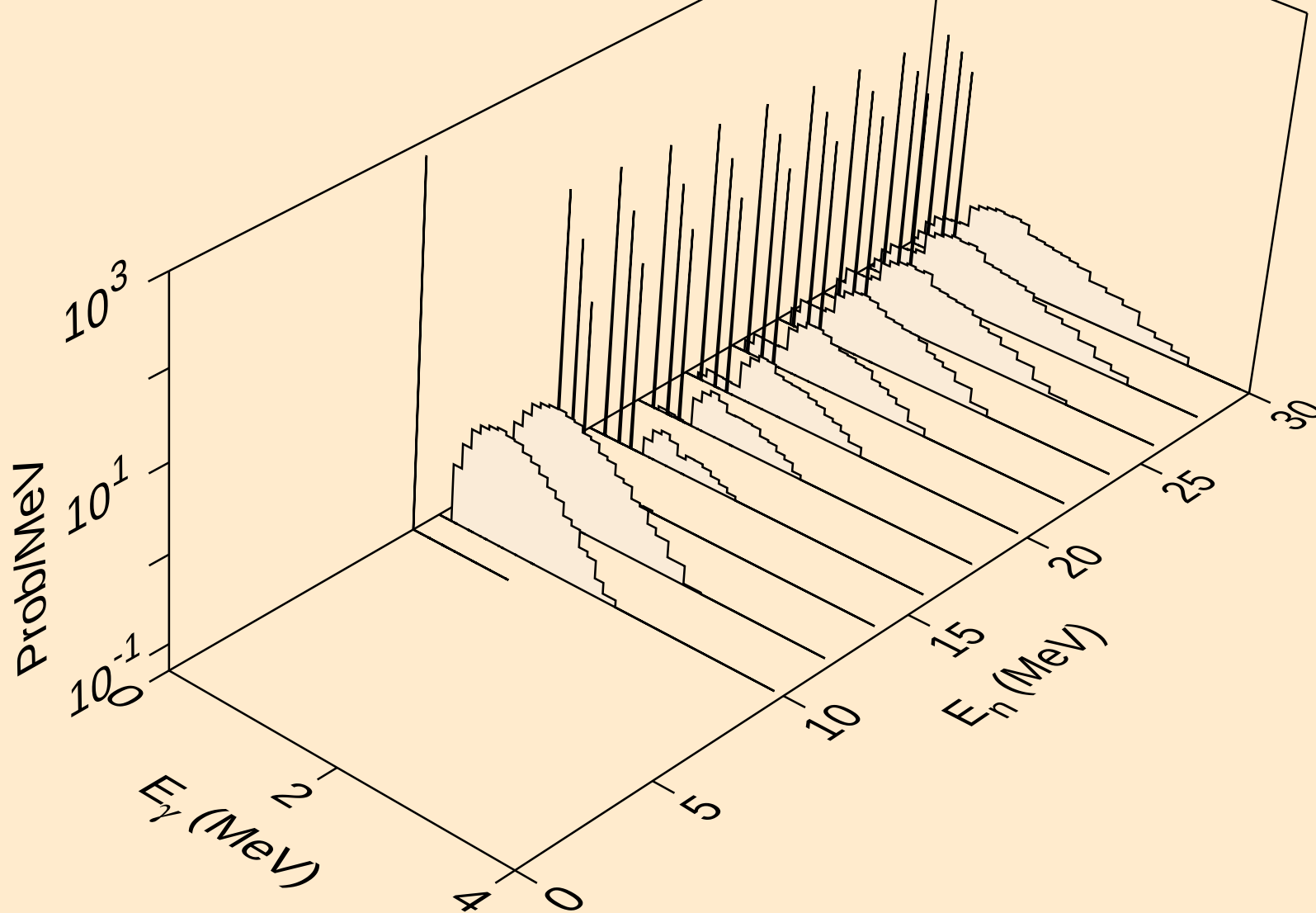
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



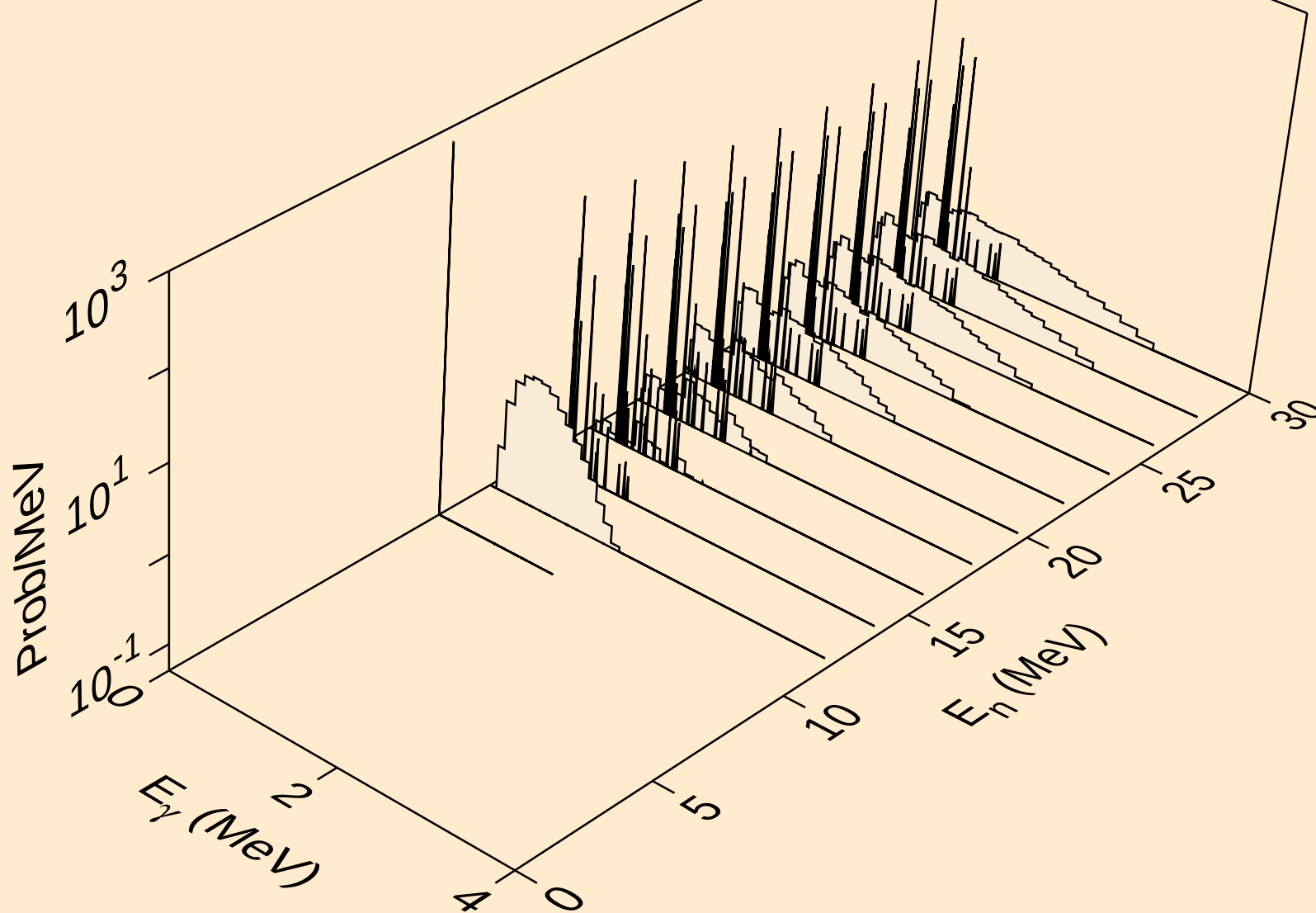
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,a)



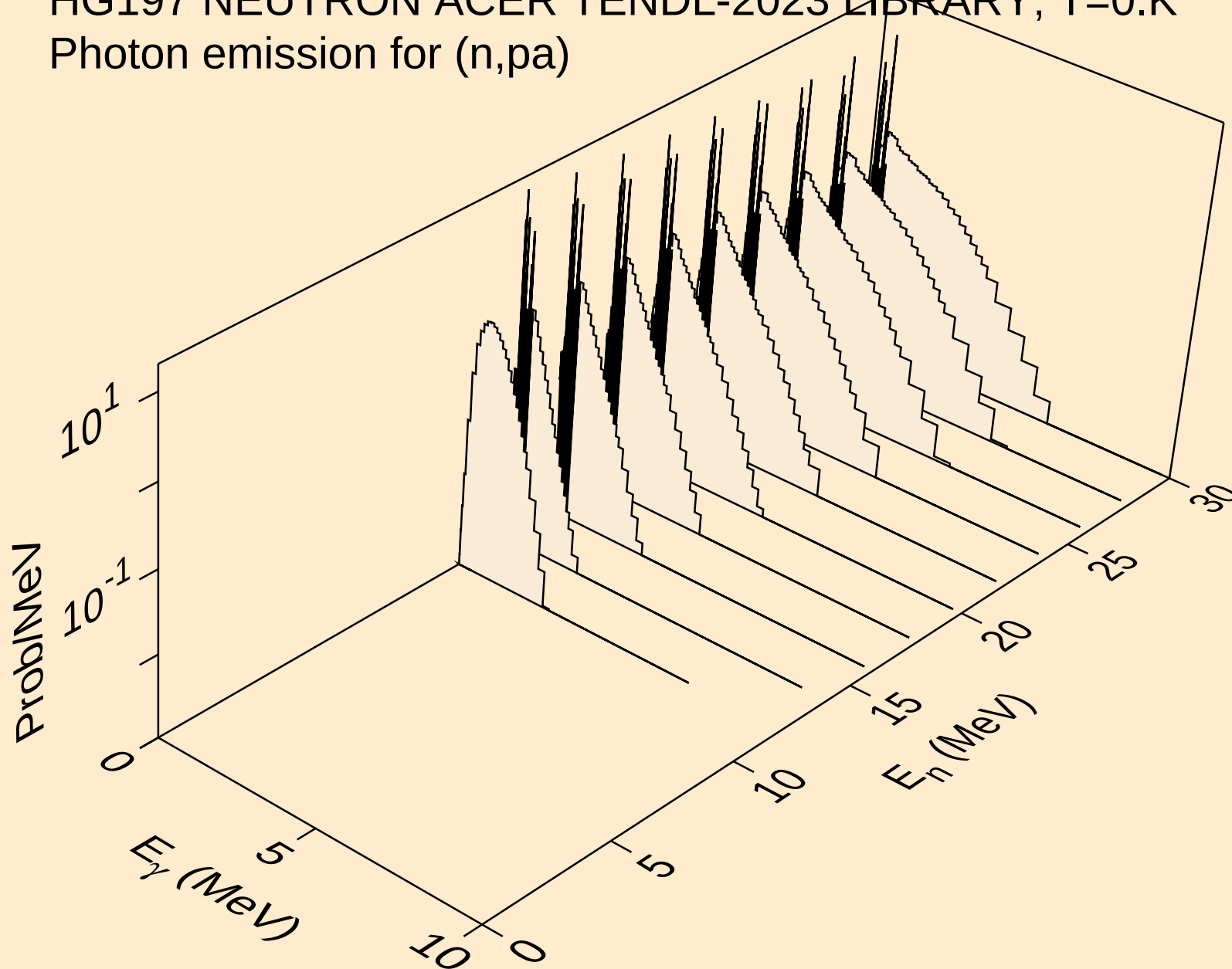
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Photon emission for (n,2a)



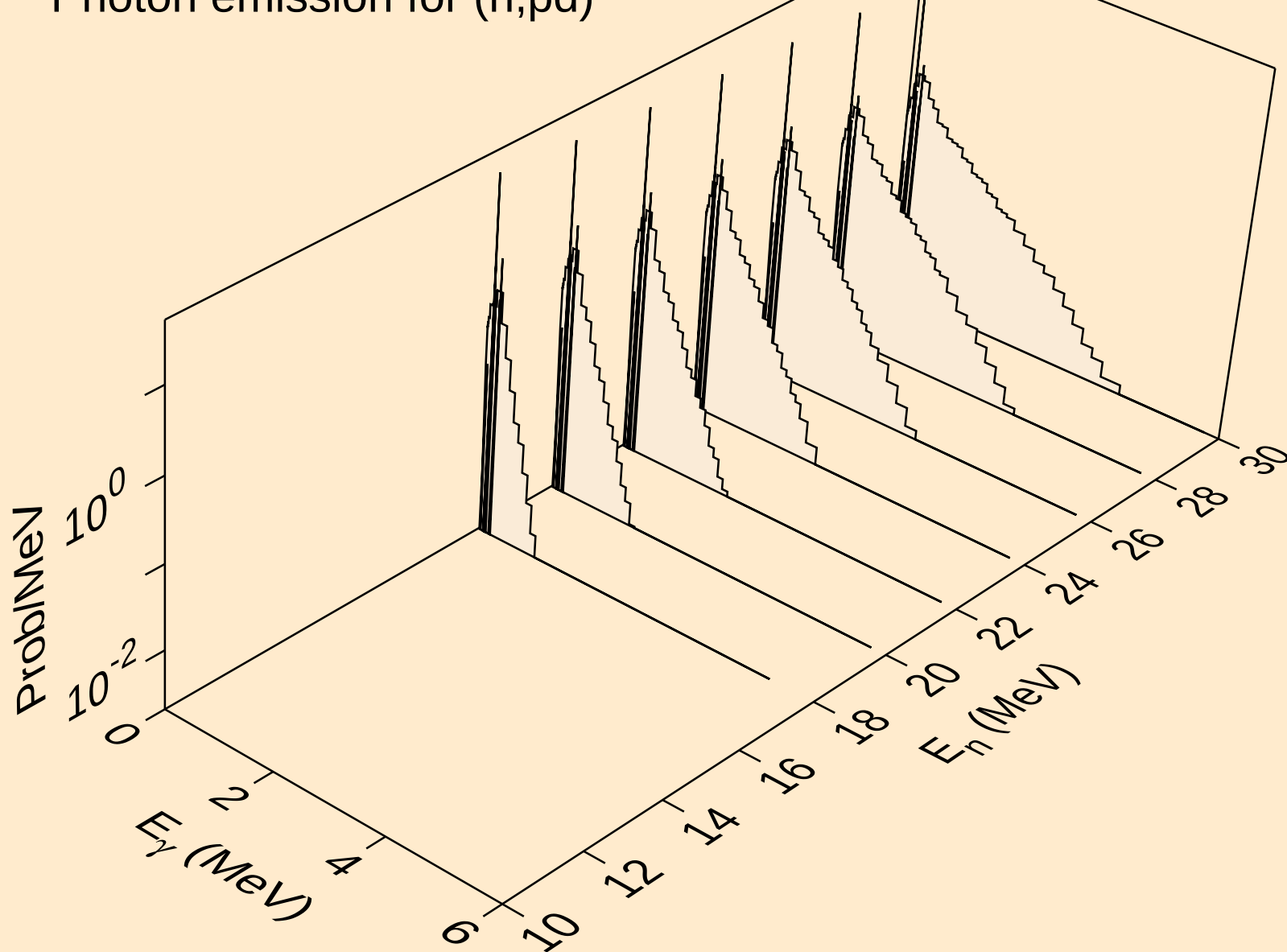
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Photon emission for (n,2p)



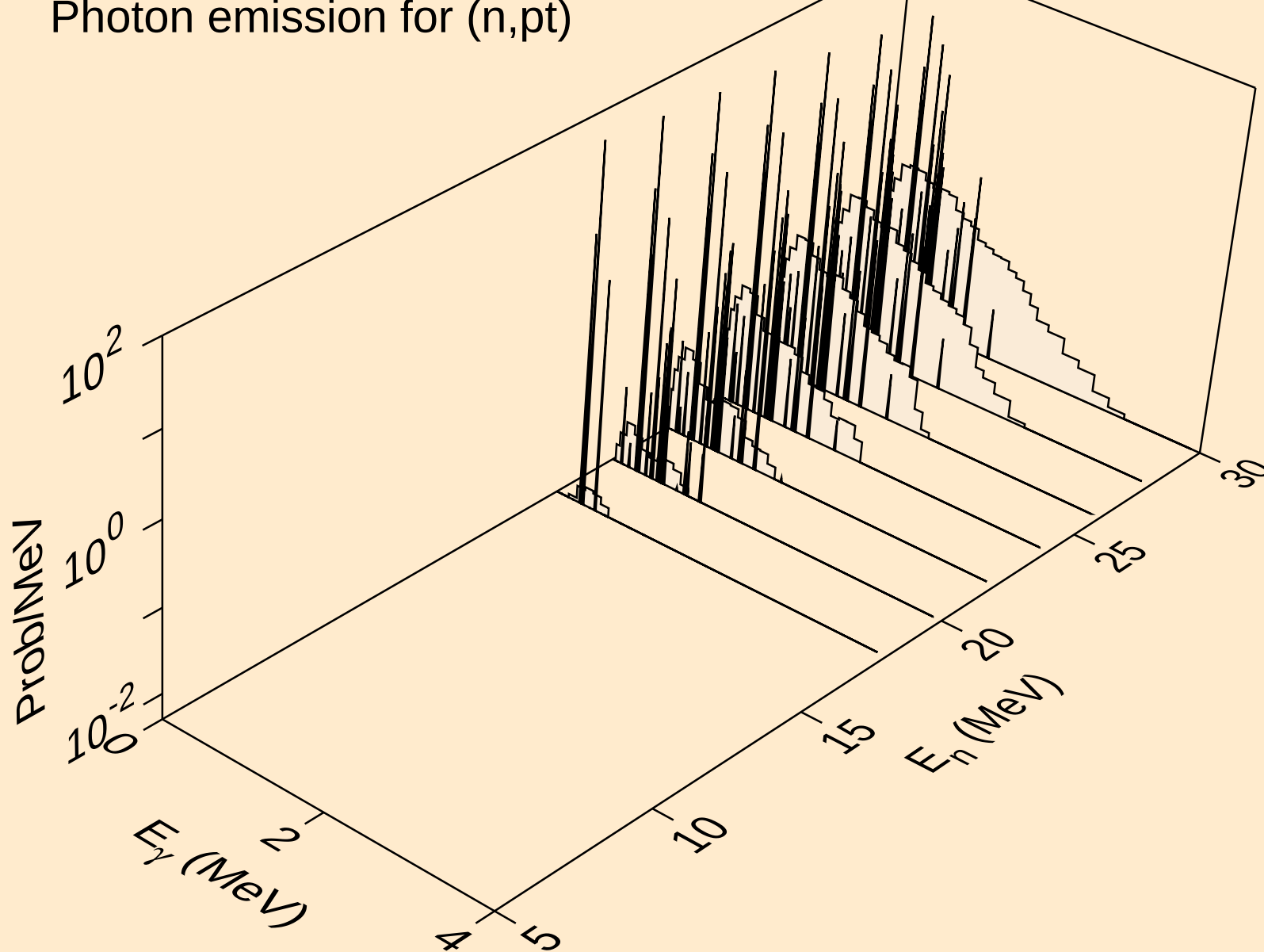
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,p $\alpha$ )



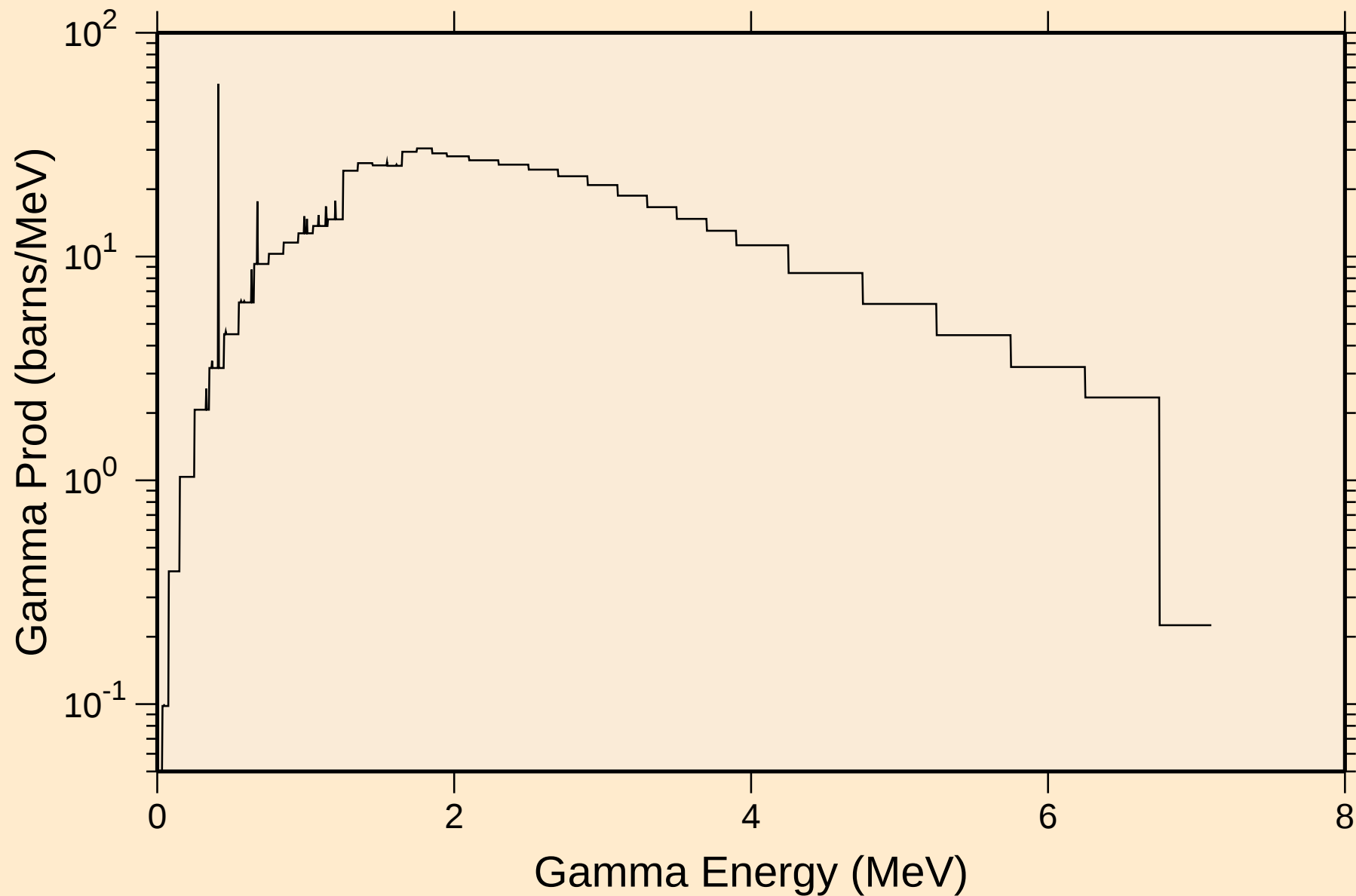
HG197 NEUTRON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,pd)



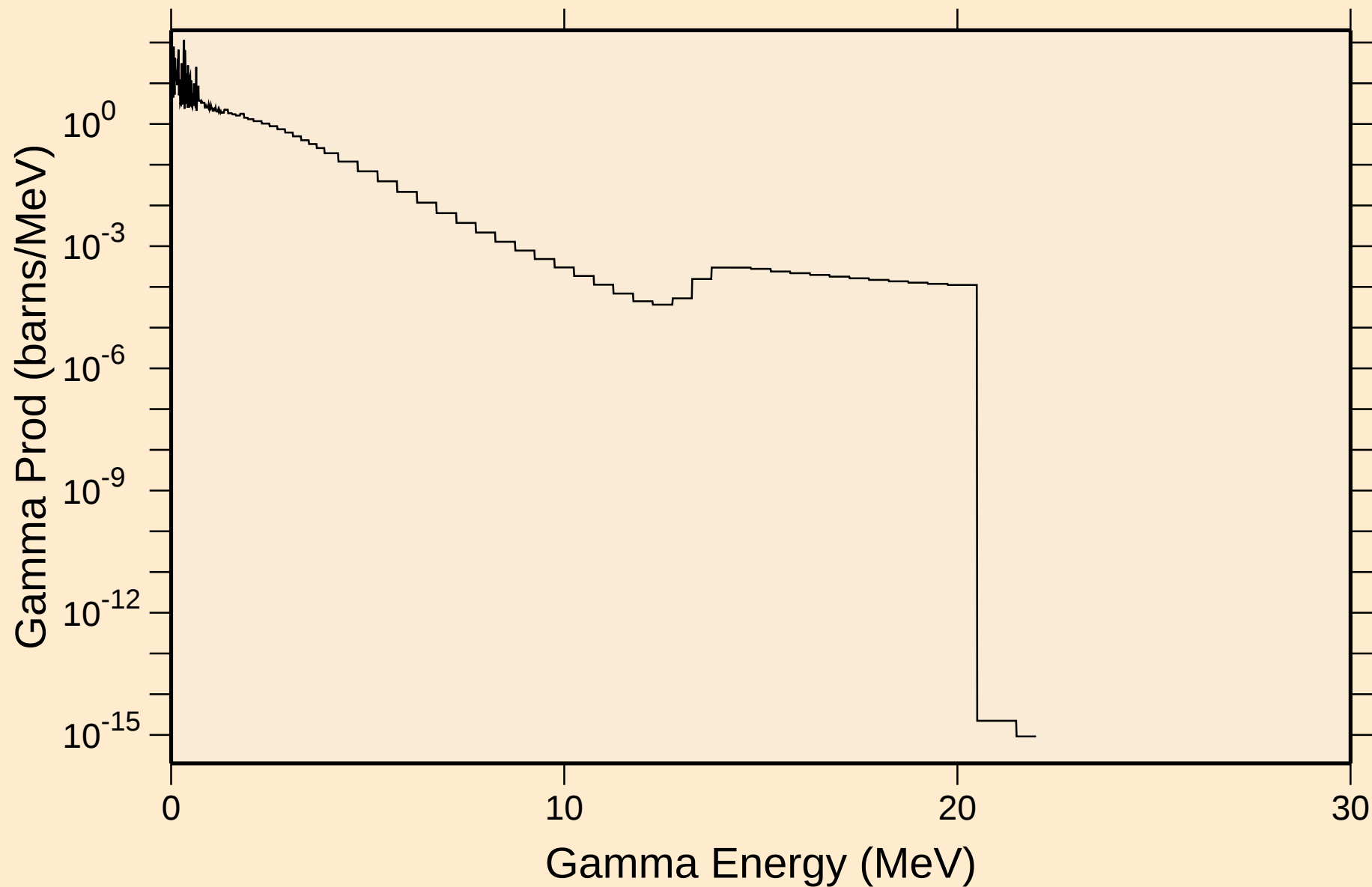
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

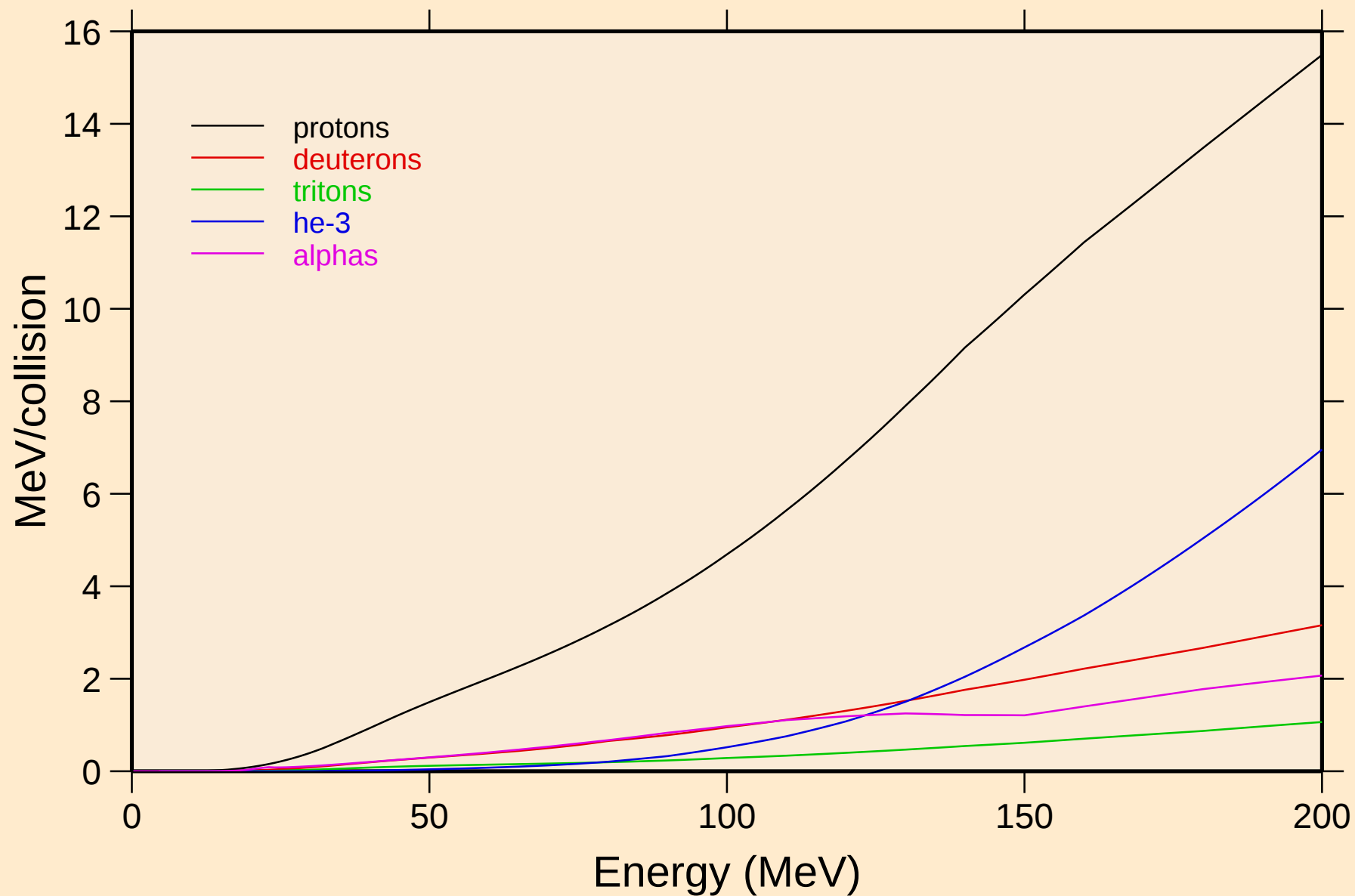


HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



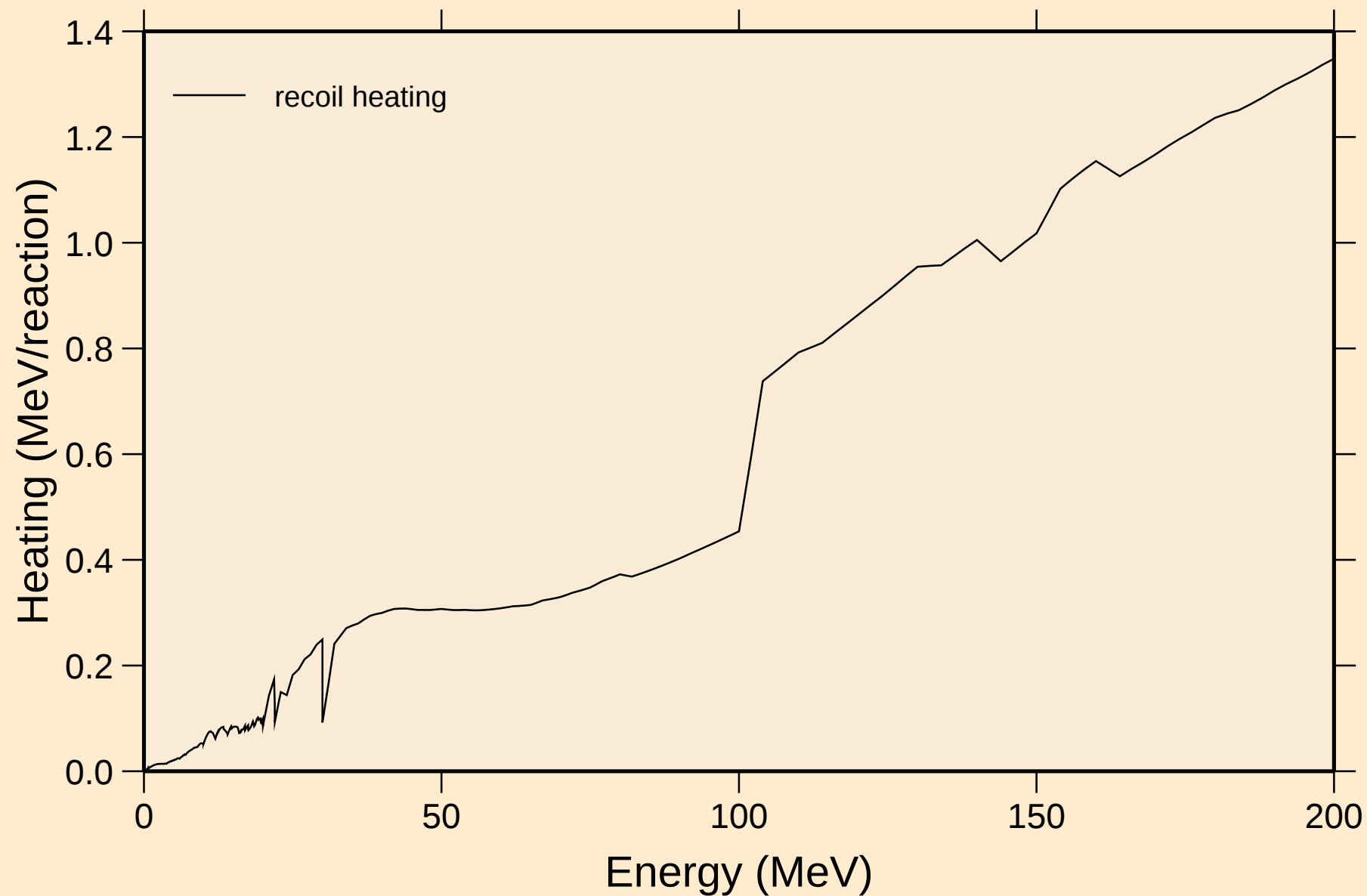
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## Particle heating contributions



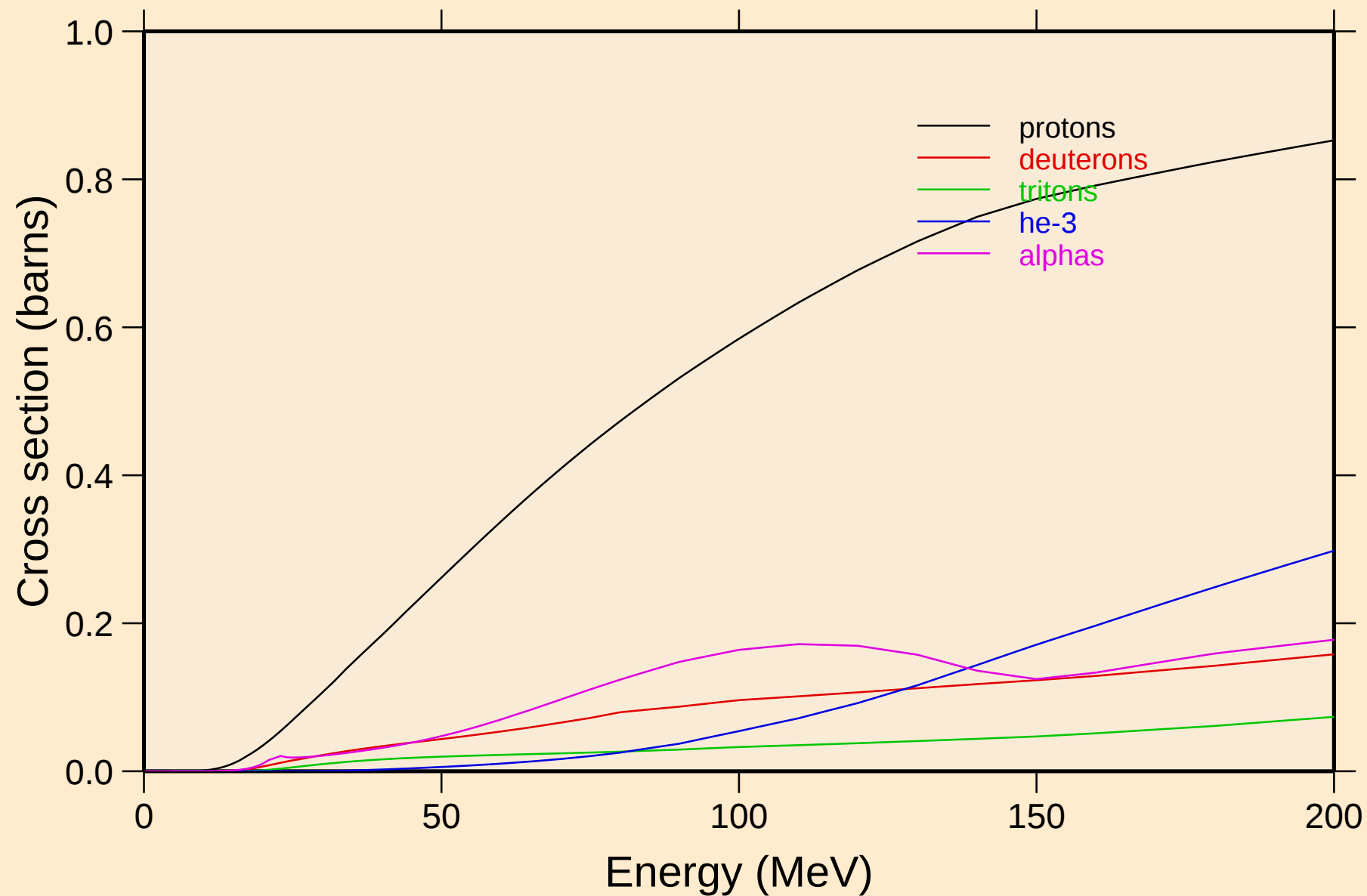
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## Recoil Heating

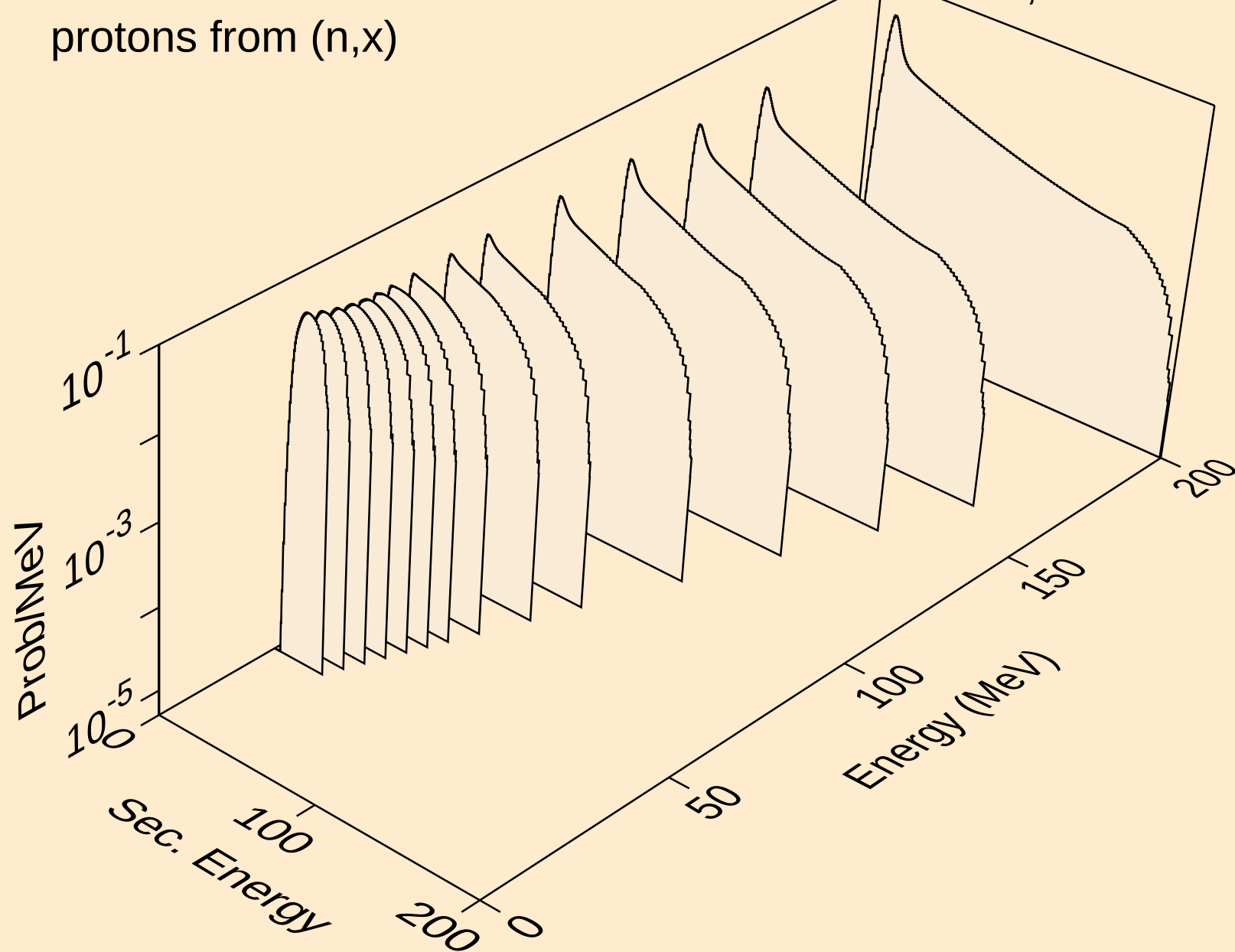


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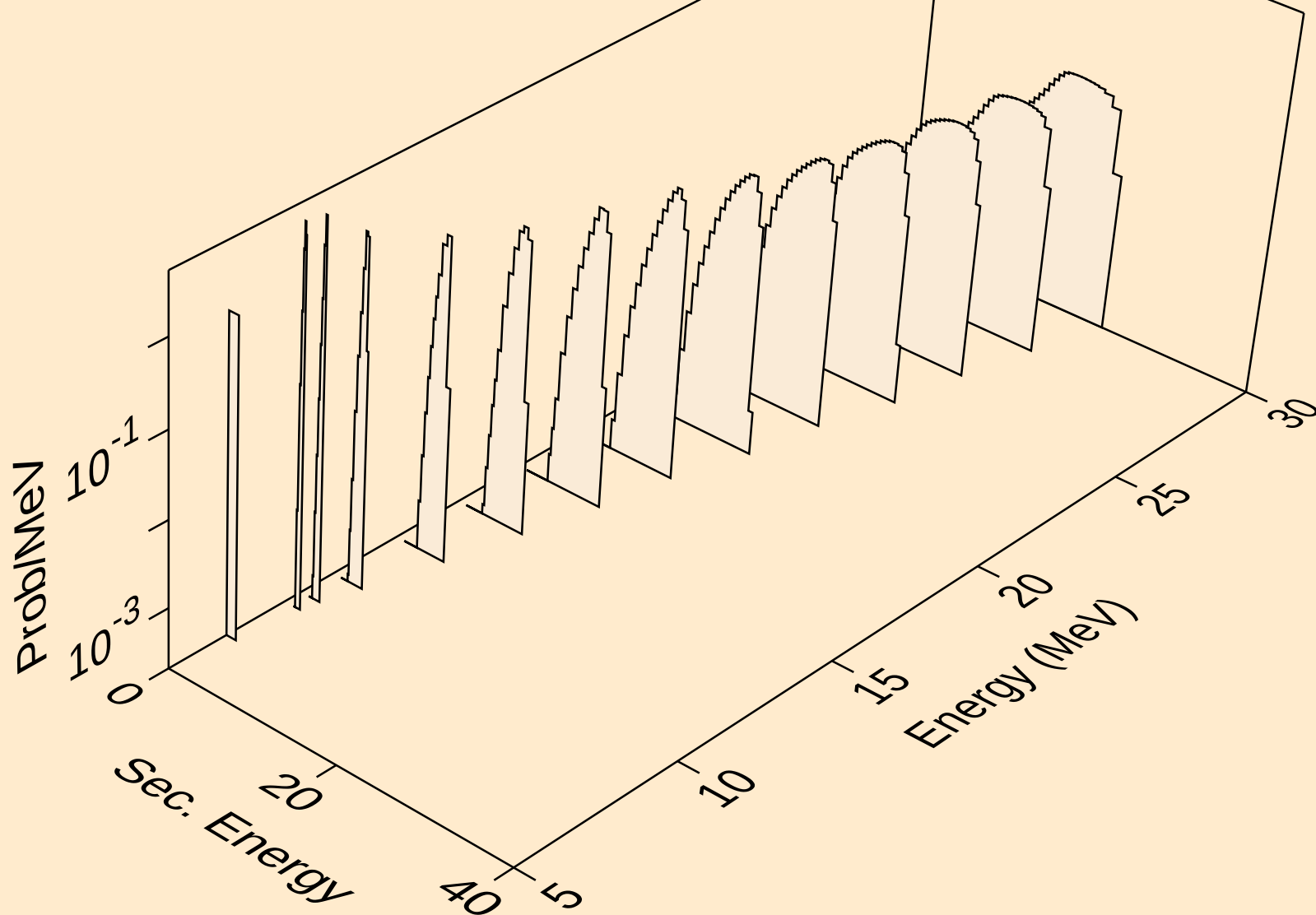
## Particle production cross sections



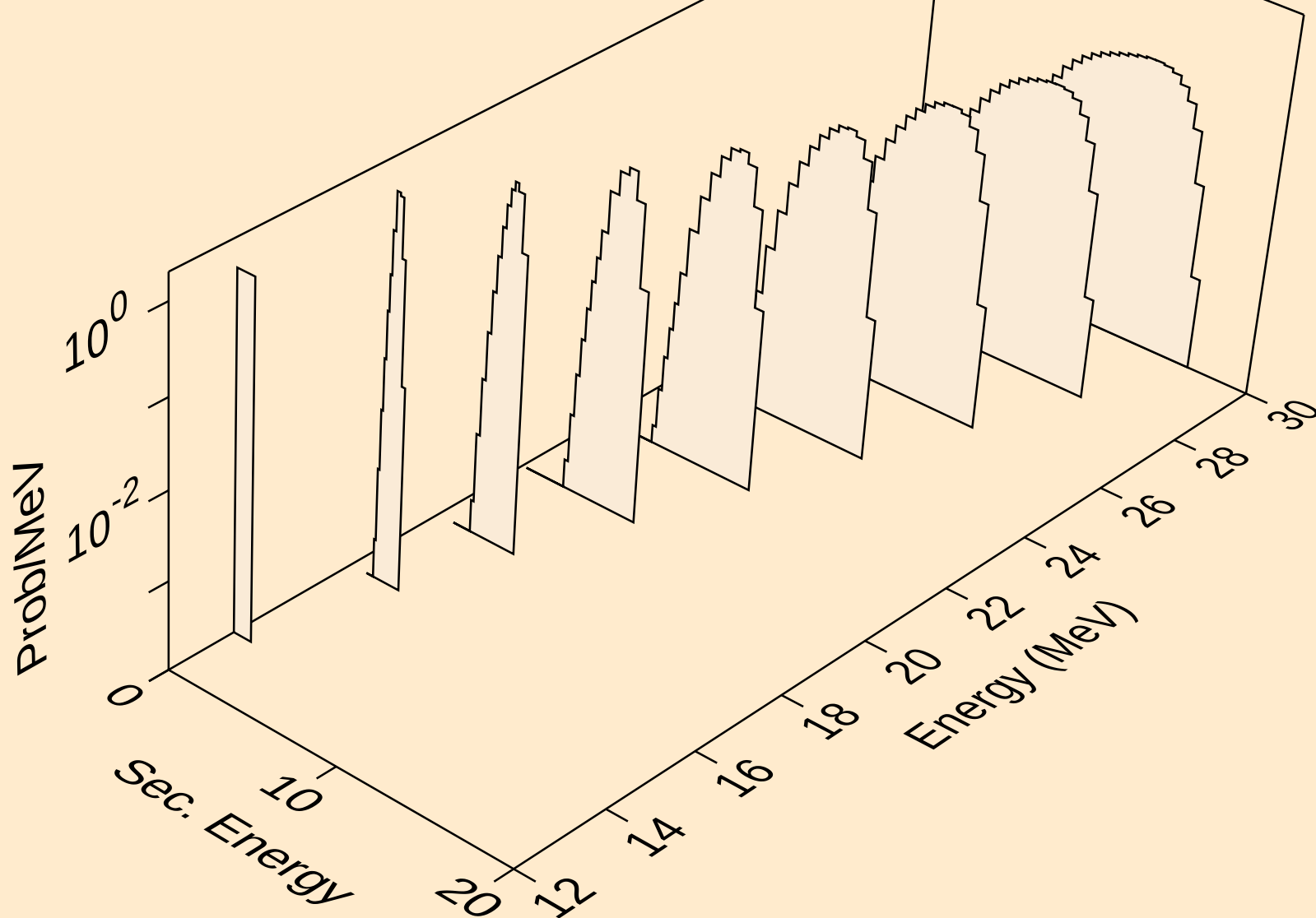
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



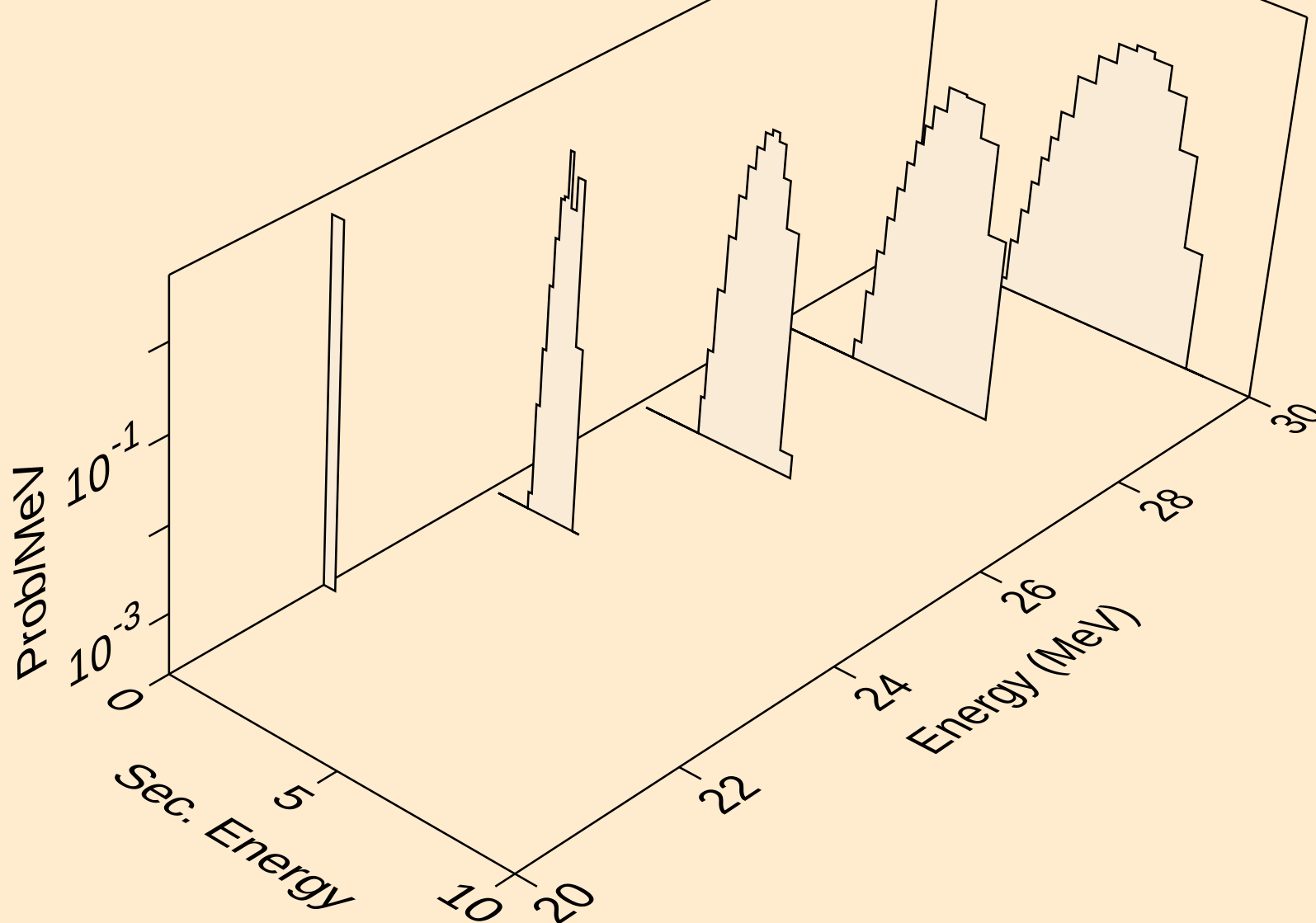
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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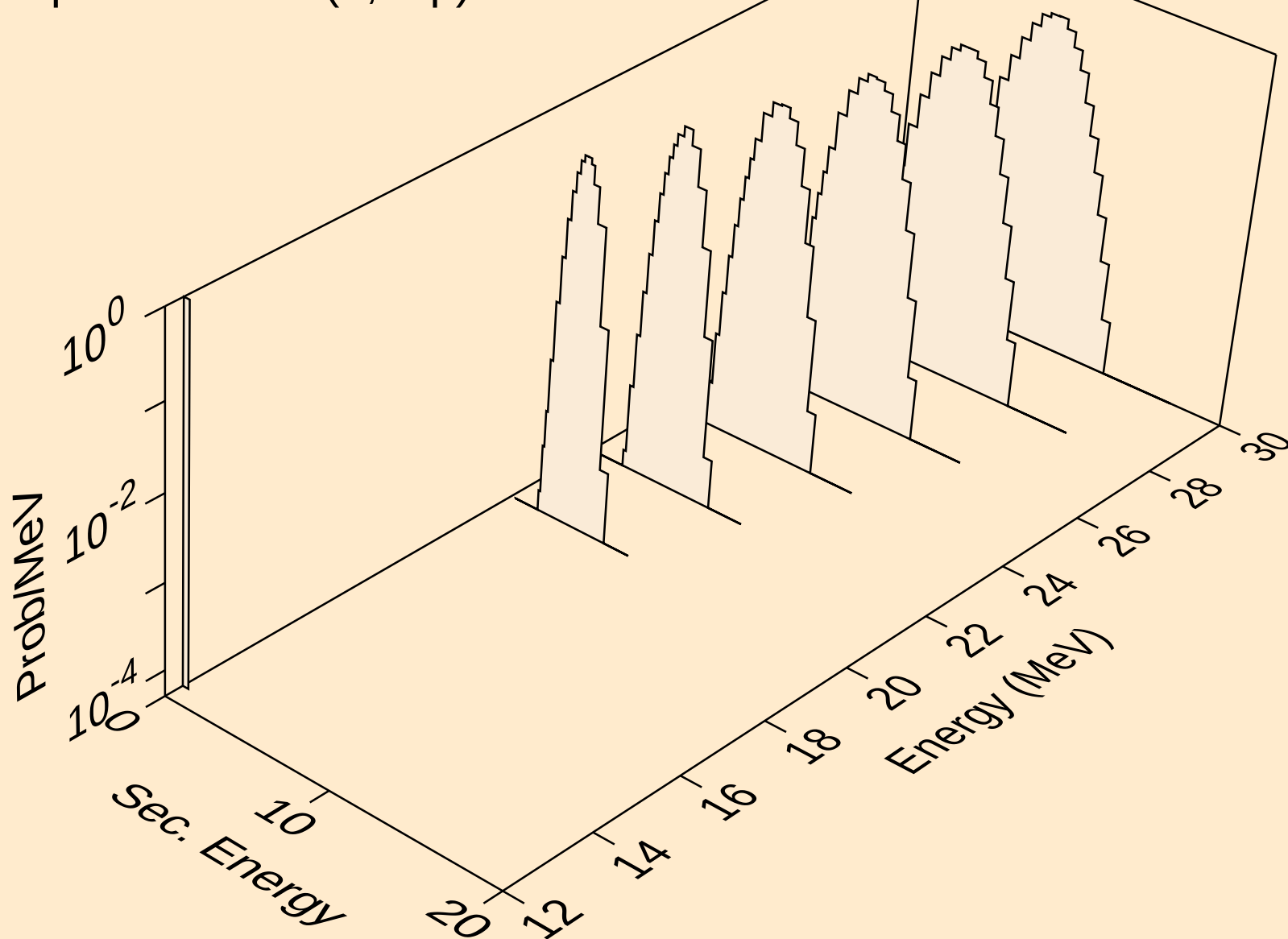
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protons from (n,2np)



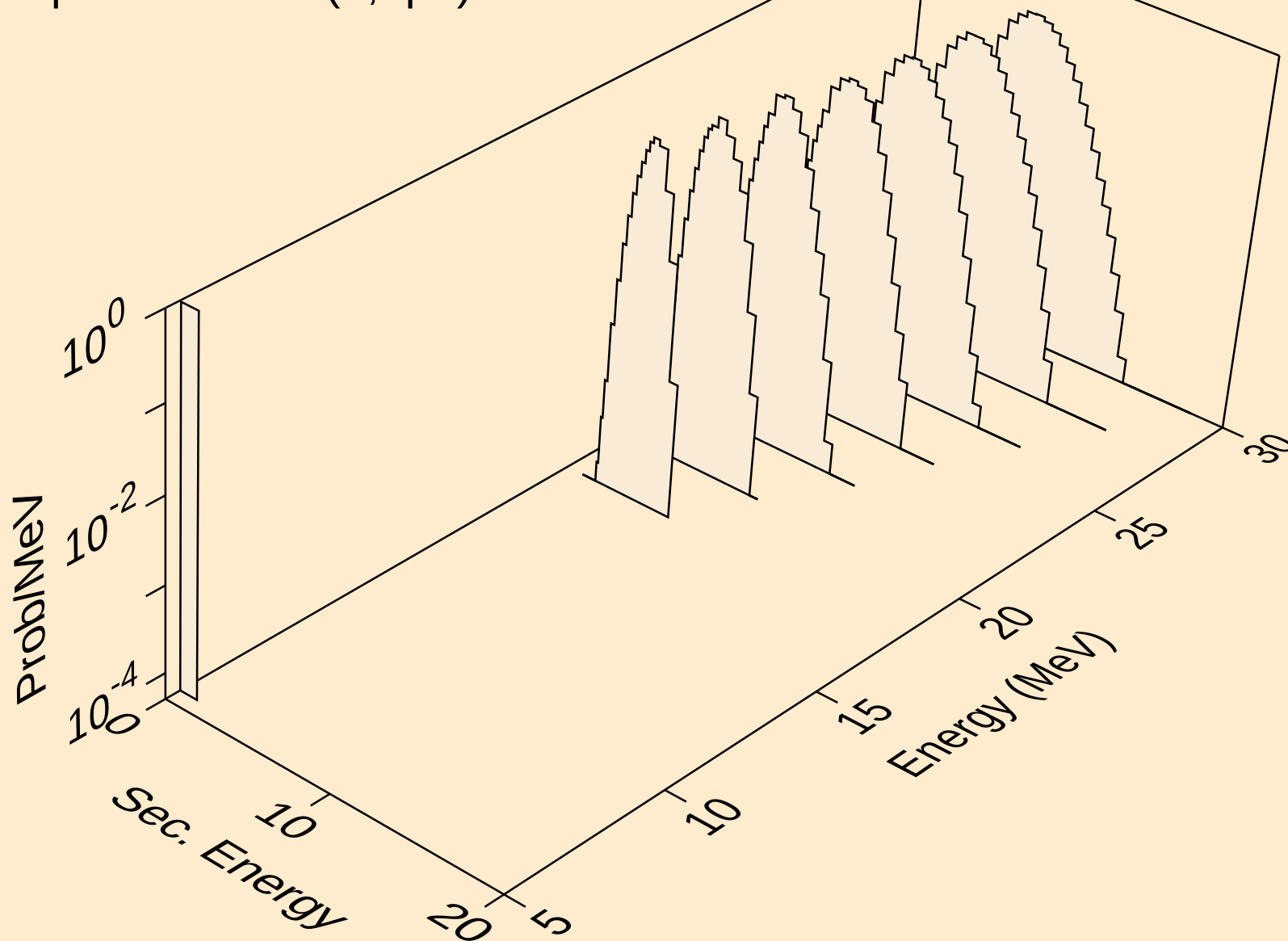
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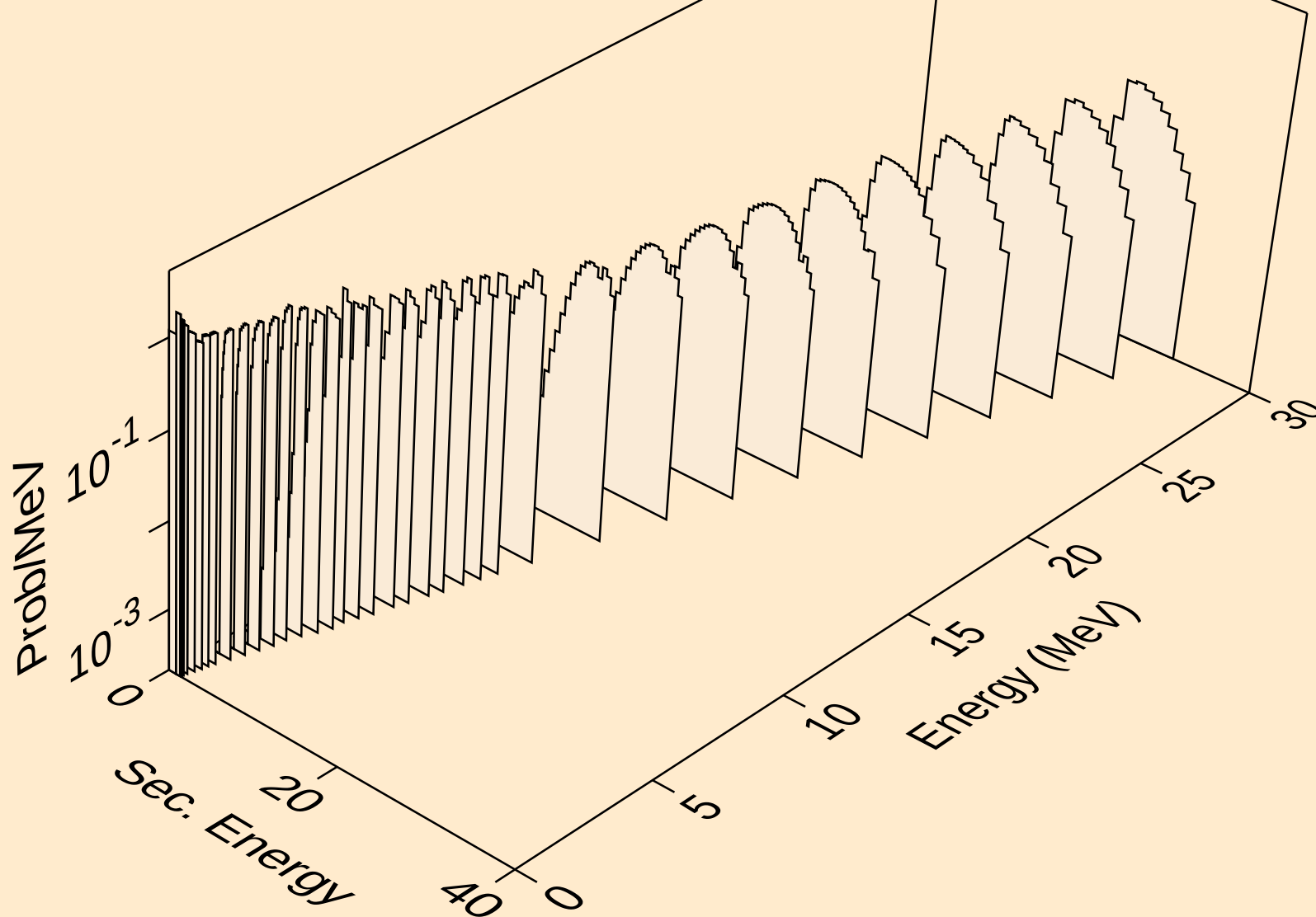
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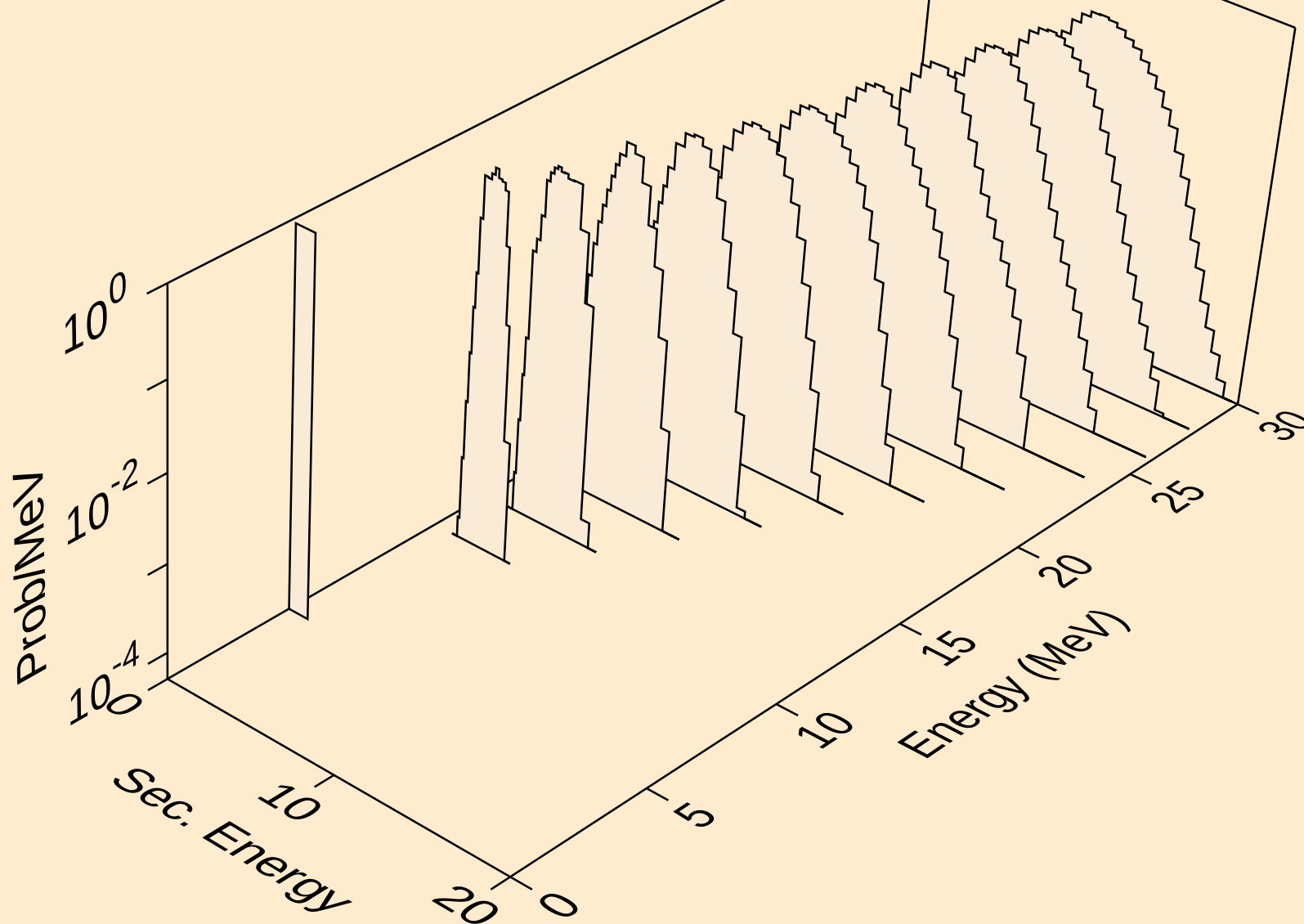
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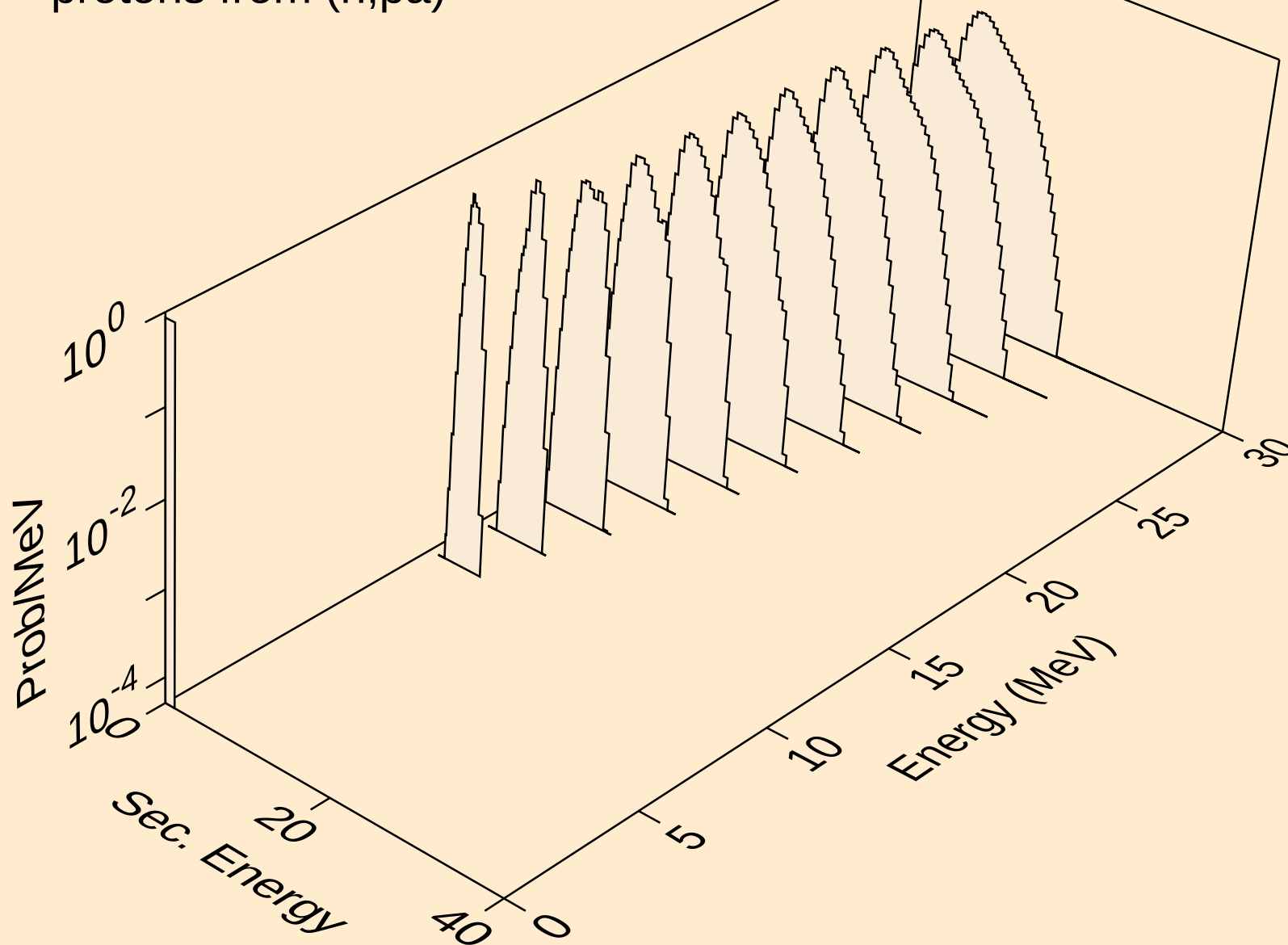
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protons from (n,p)



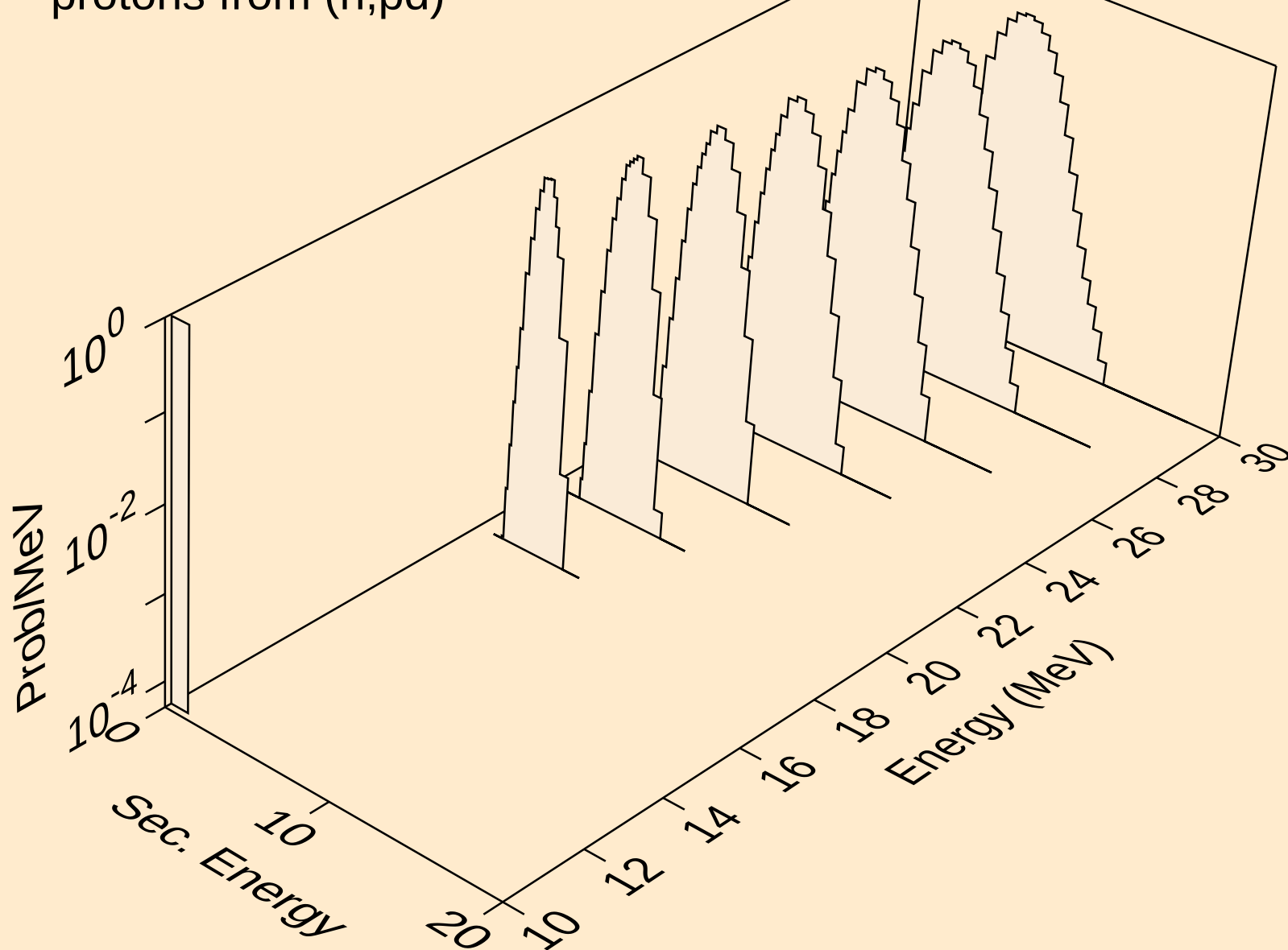
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protons from (n,2p)



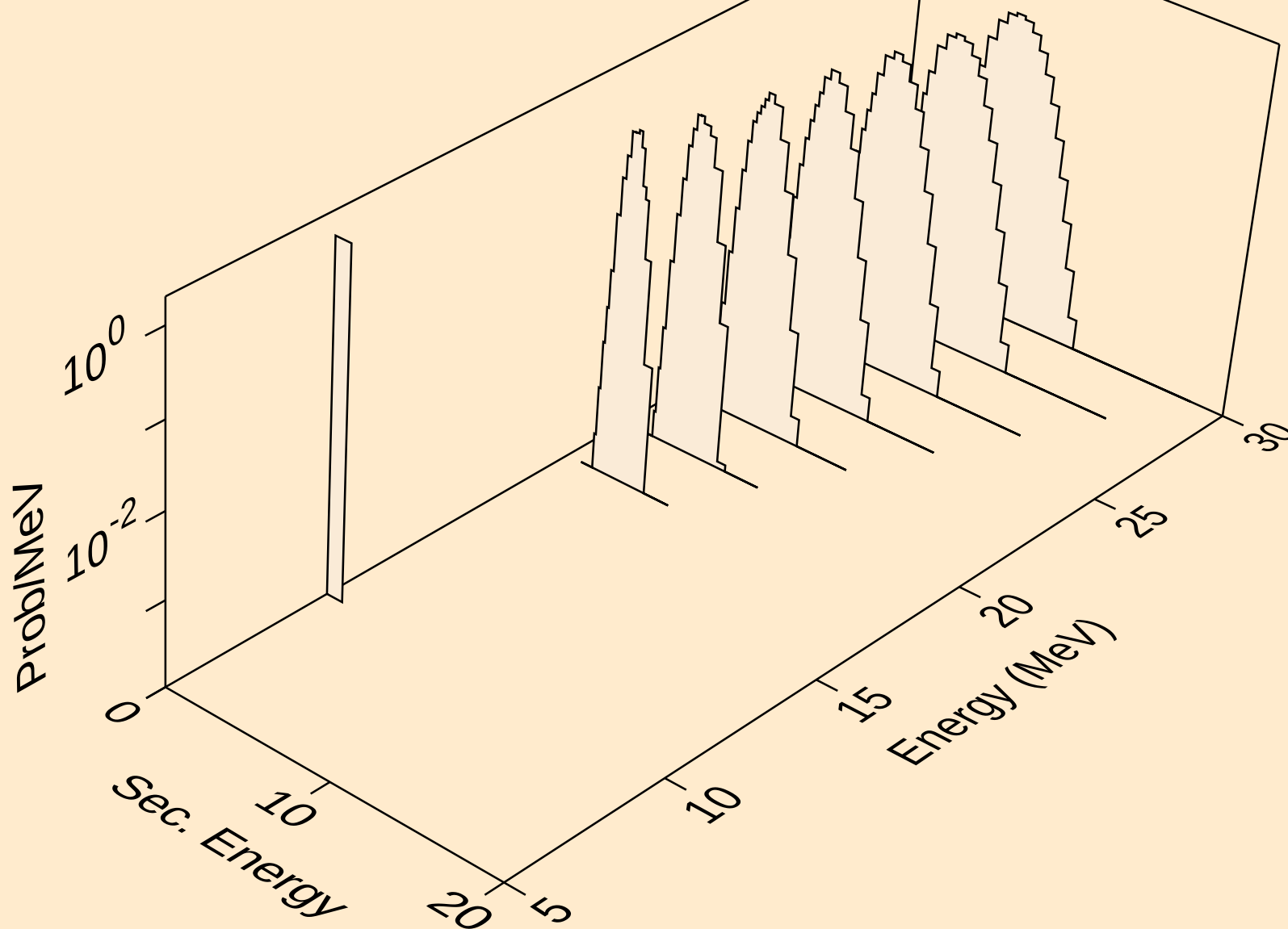
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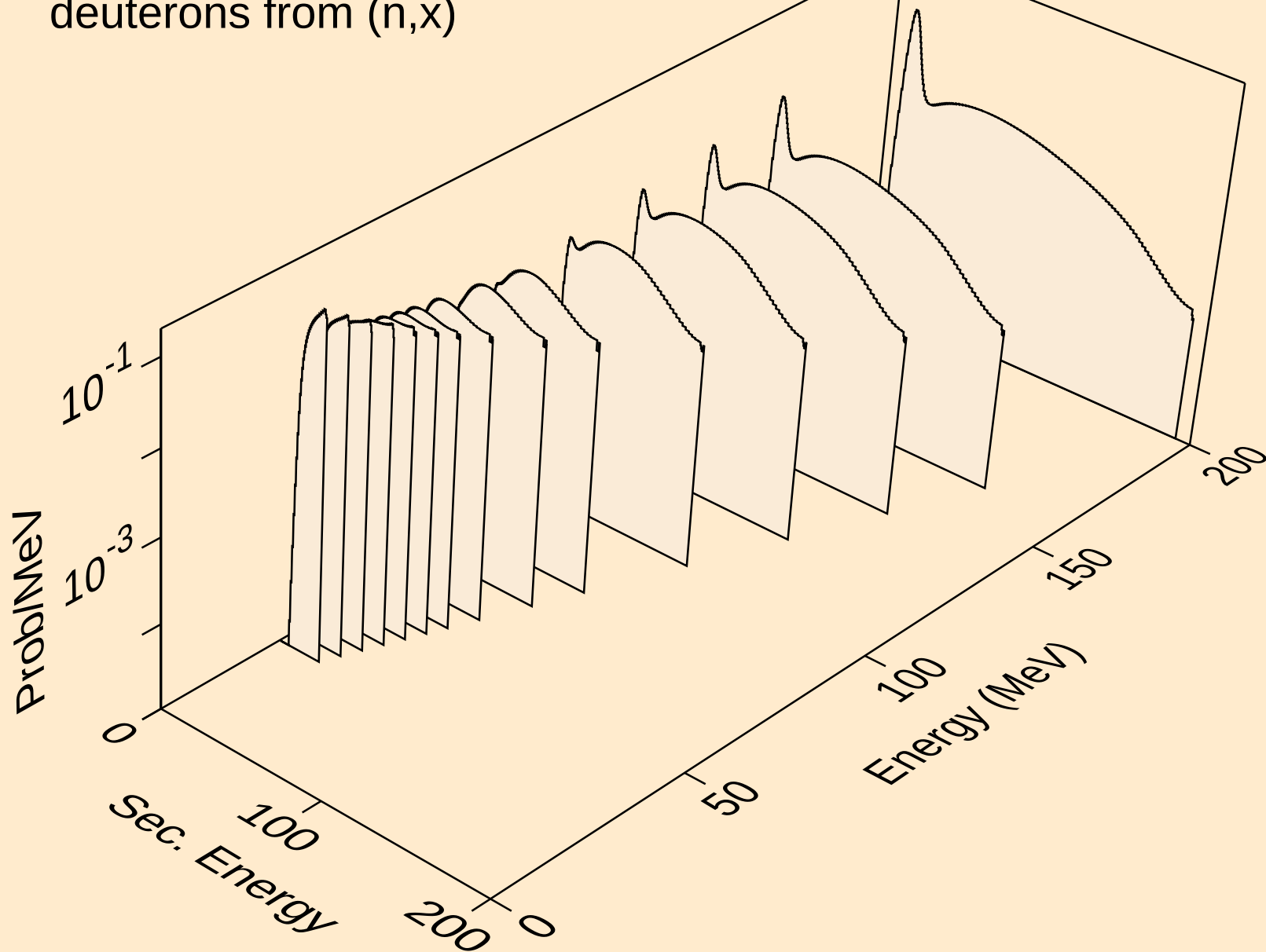
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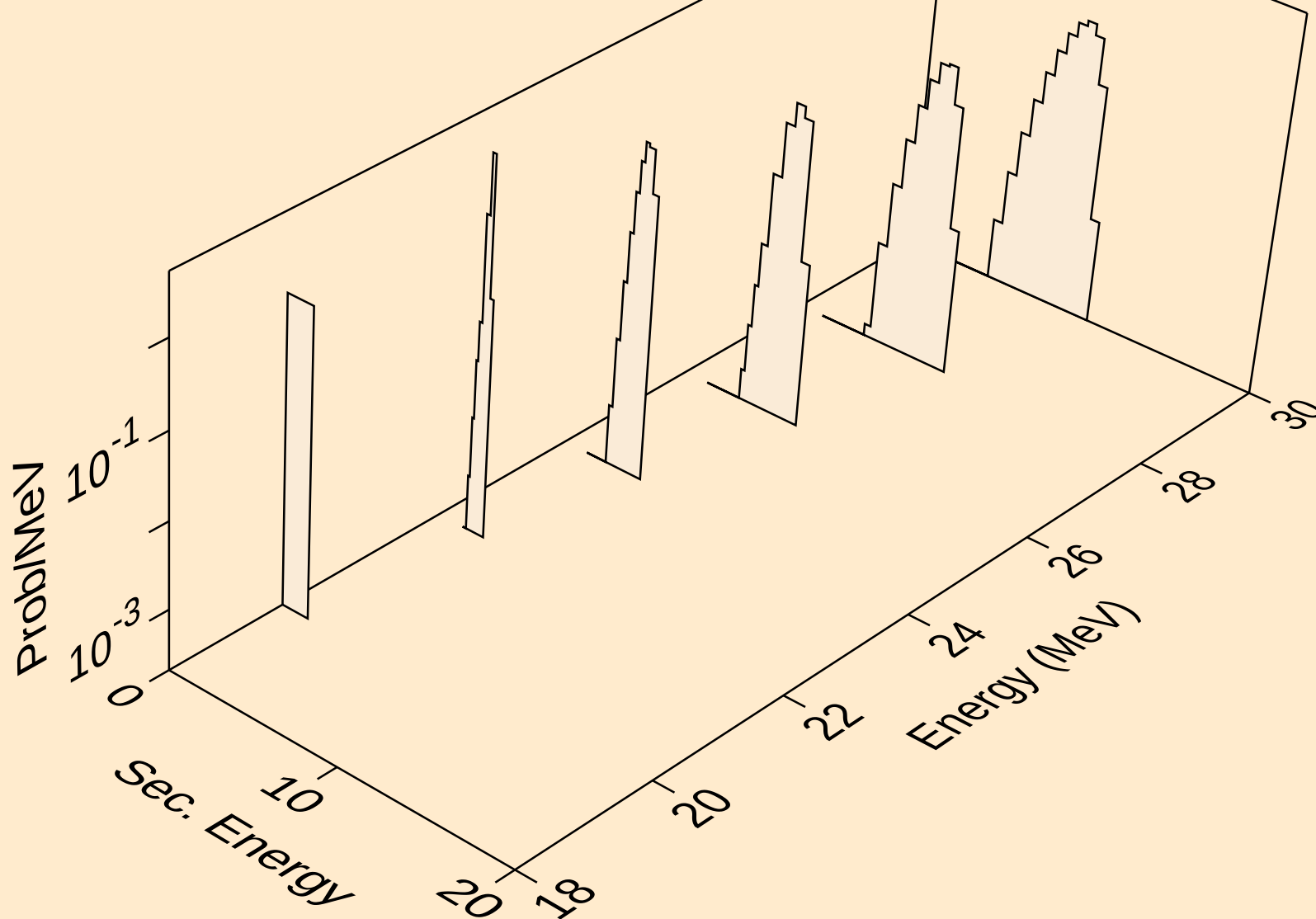
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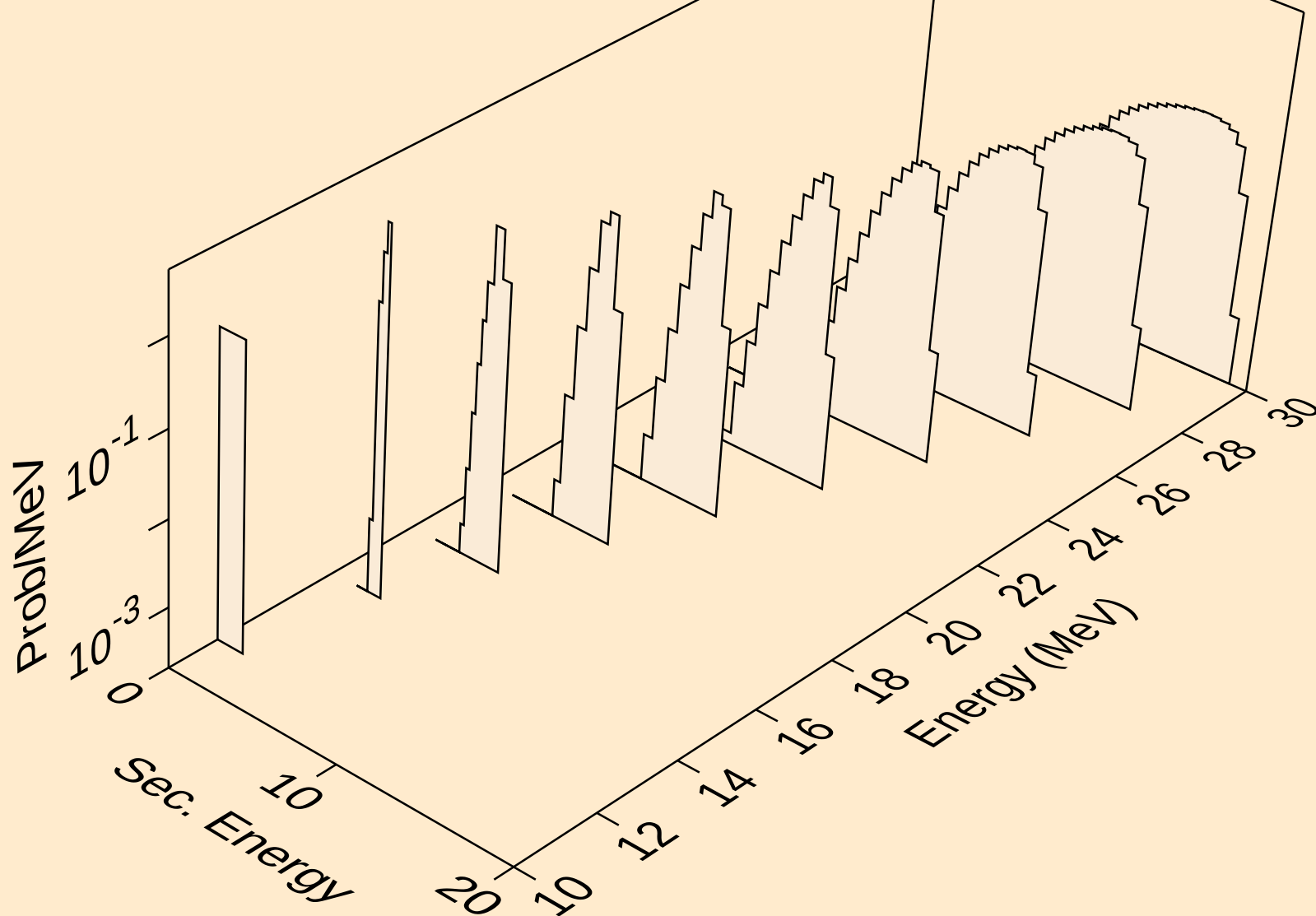
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deuterons from (n,x)



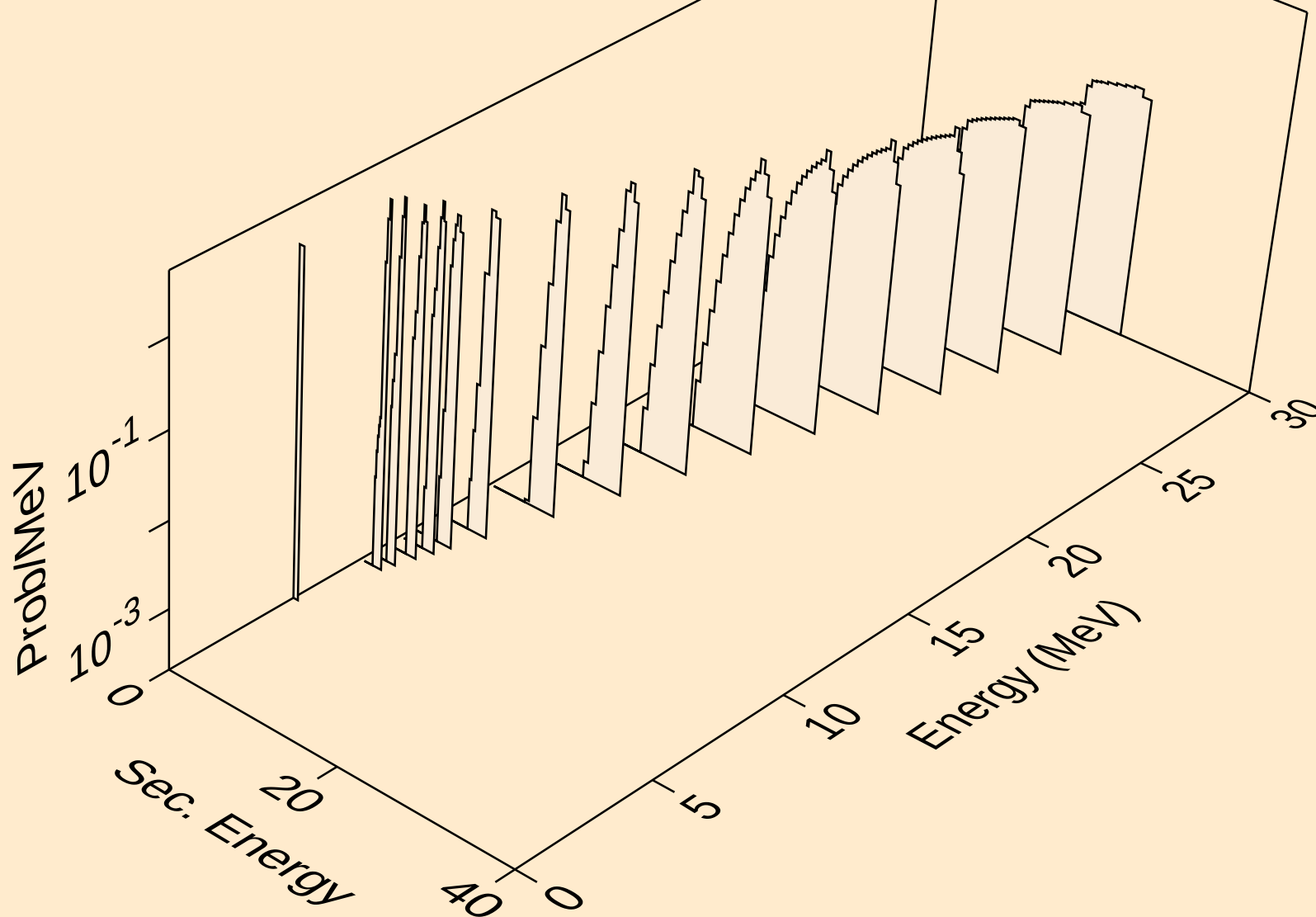
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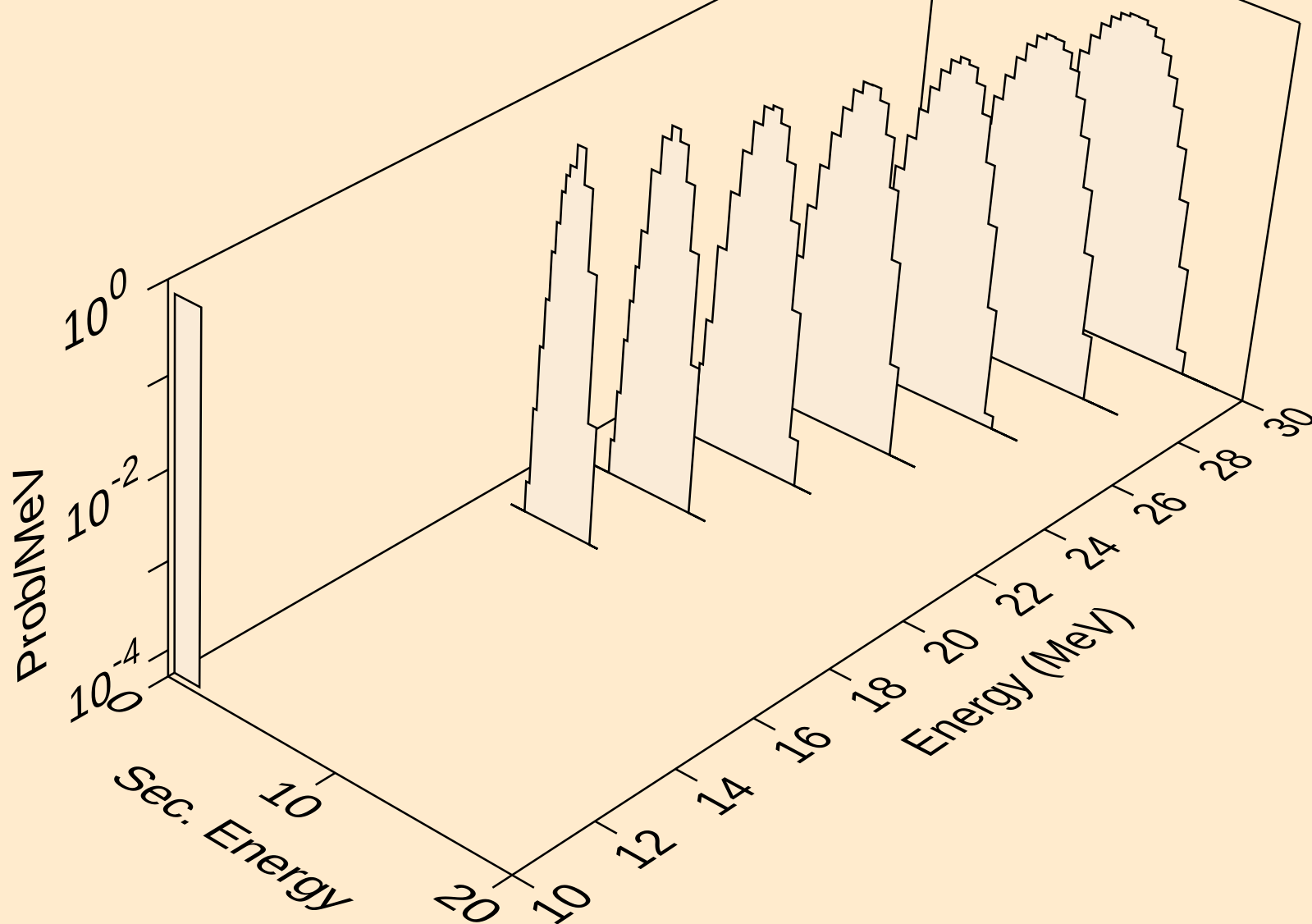
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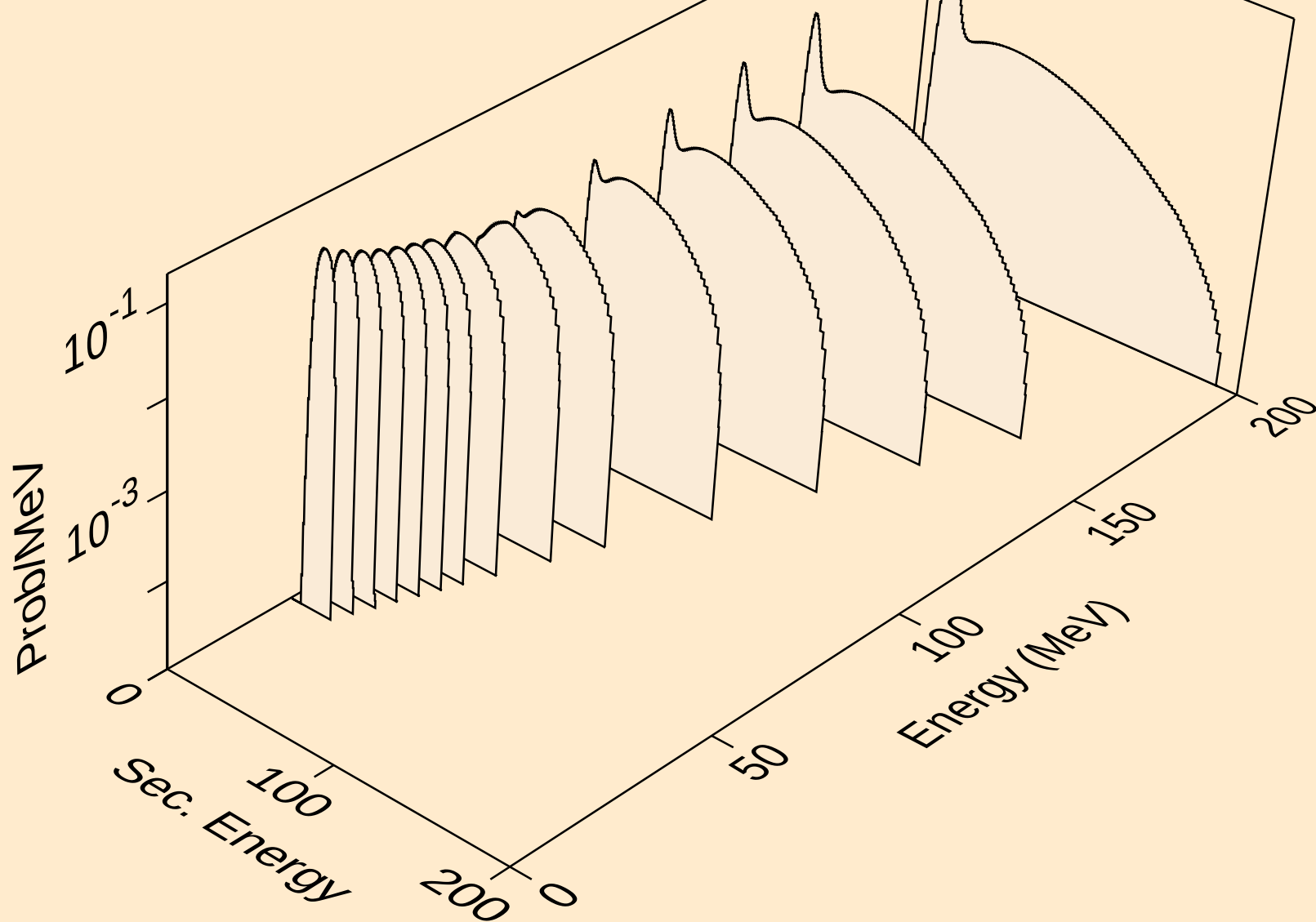
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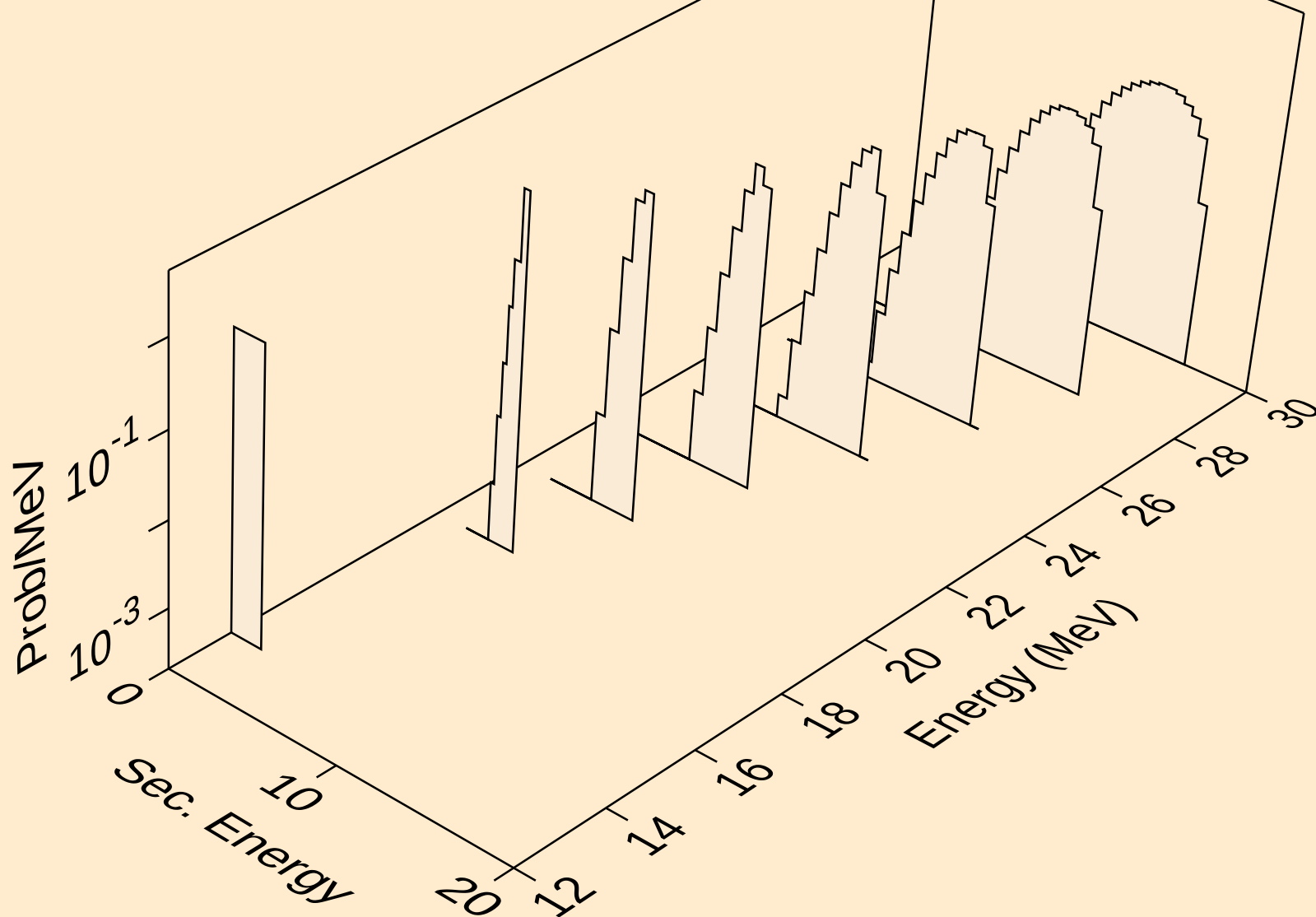
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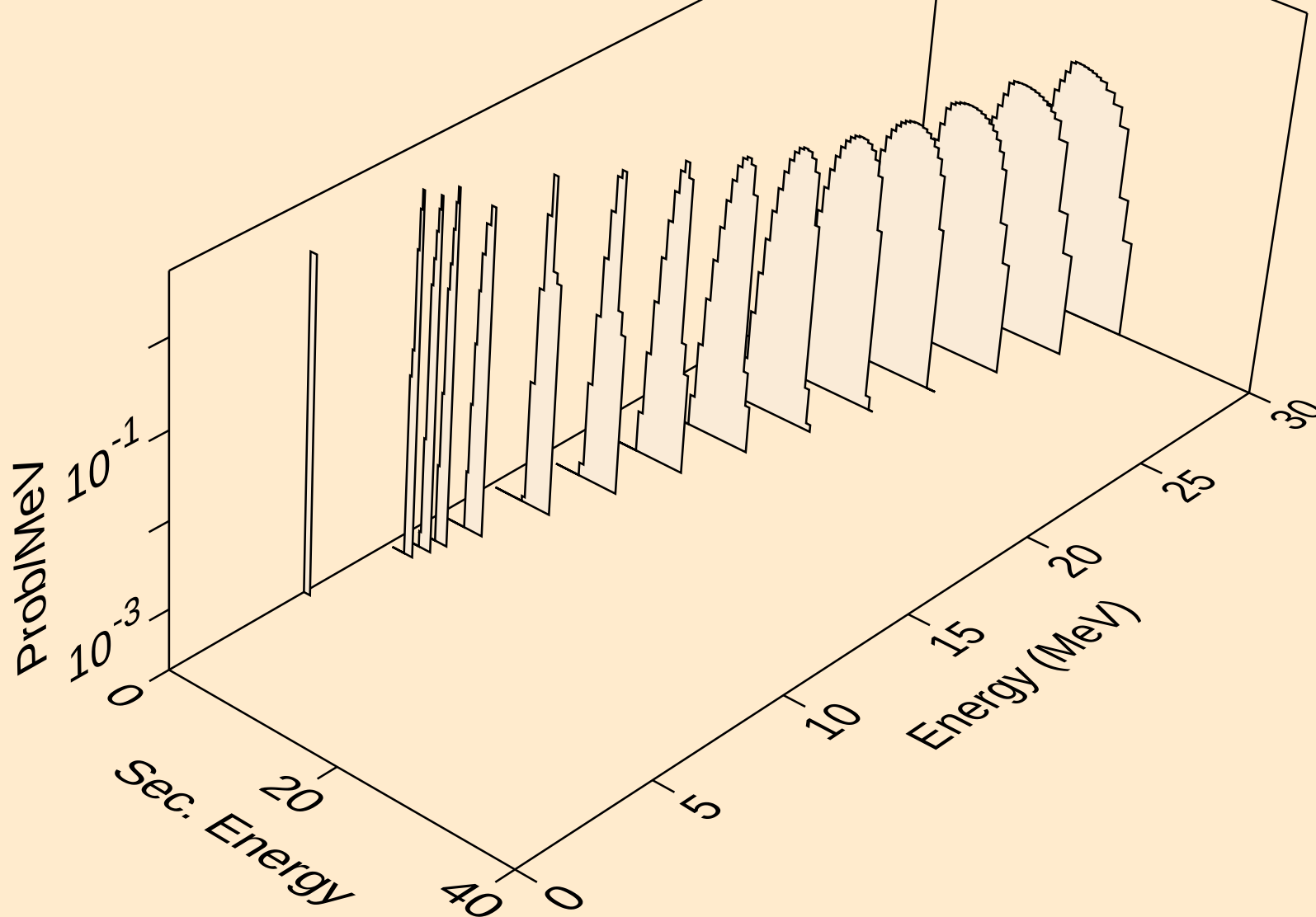
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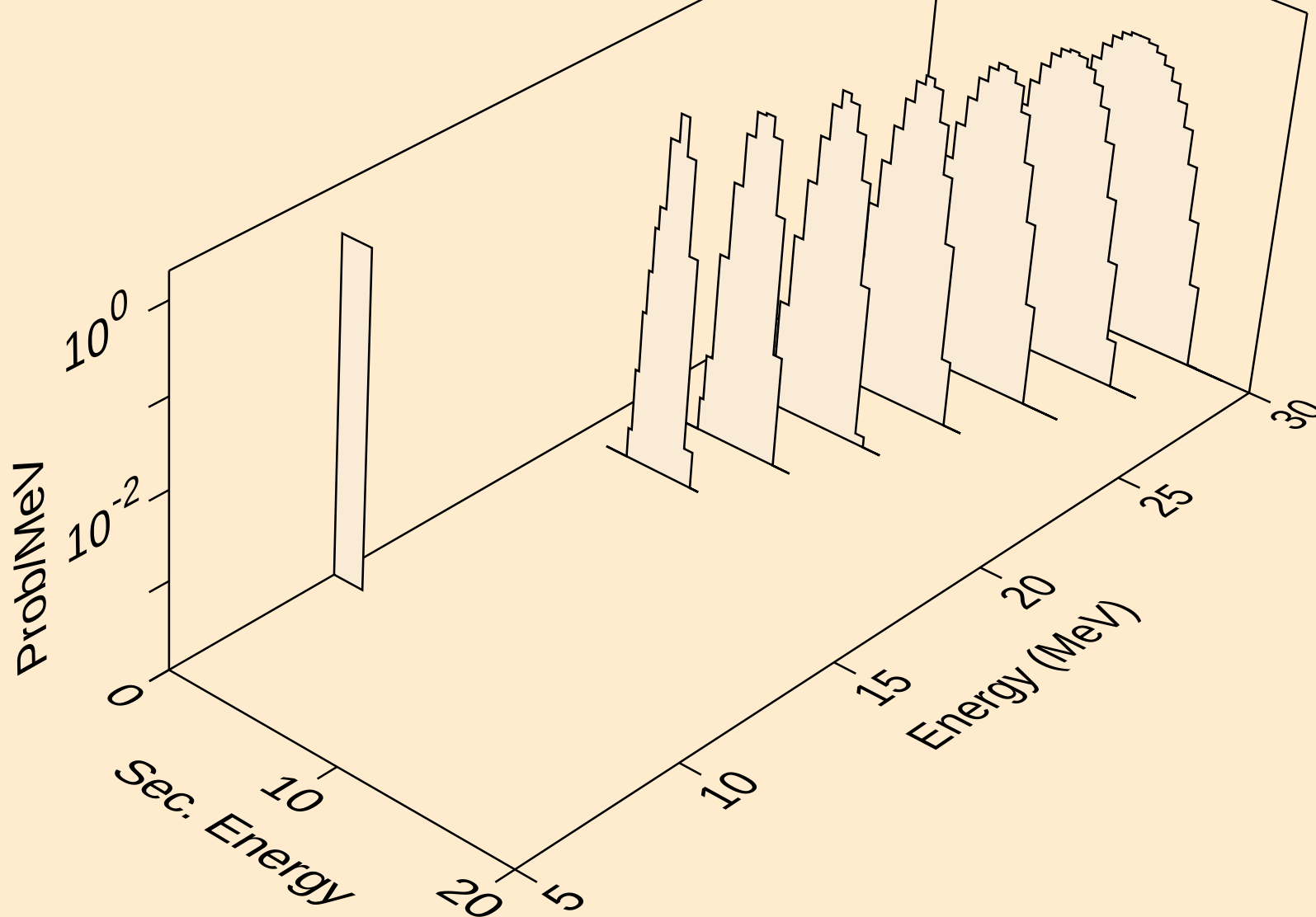
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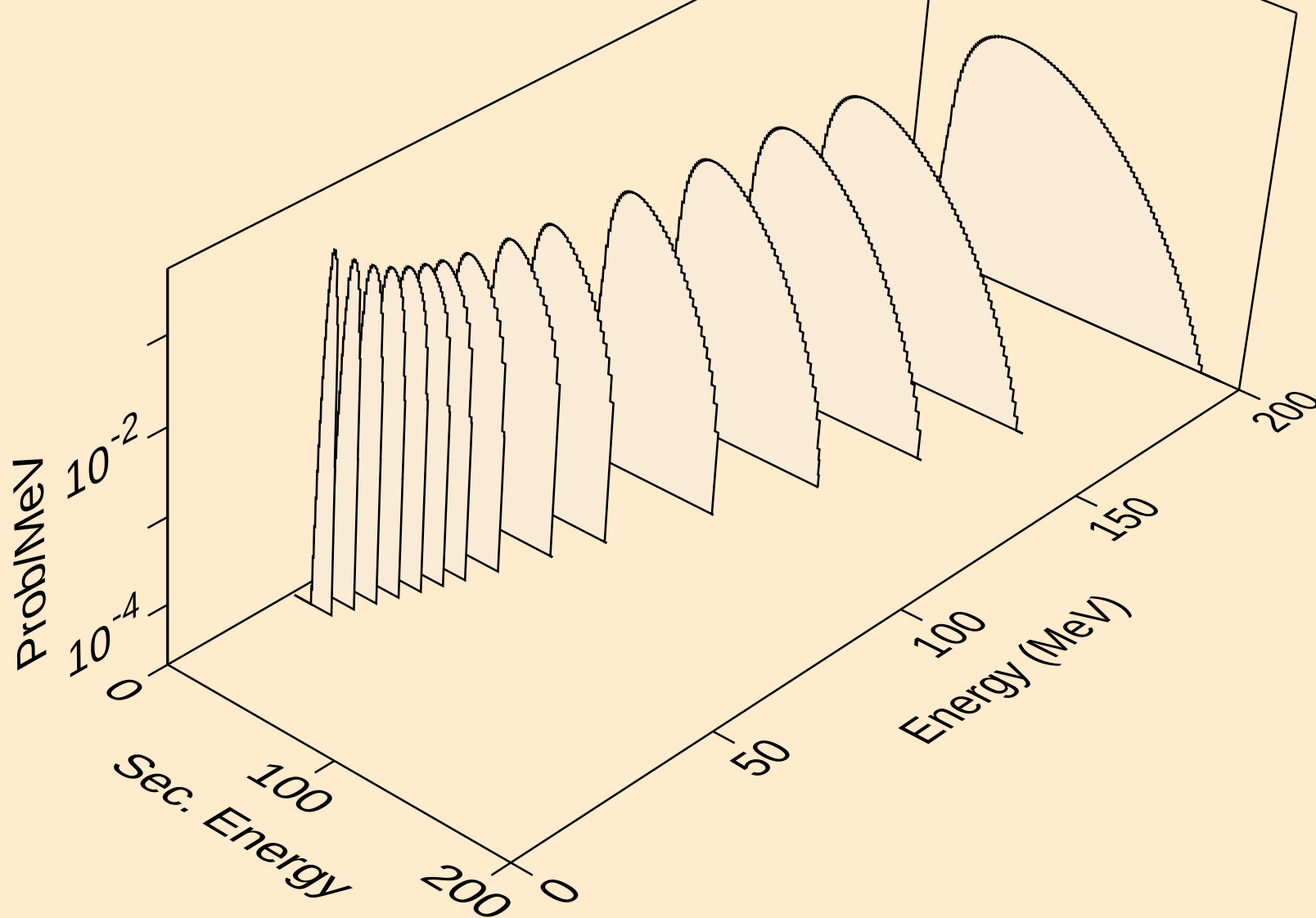
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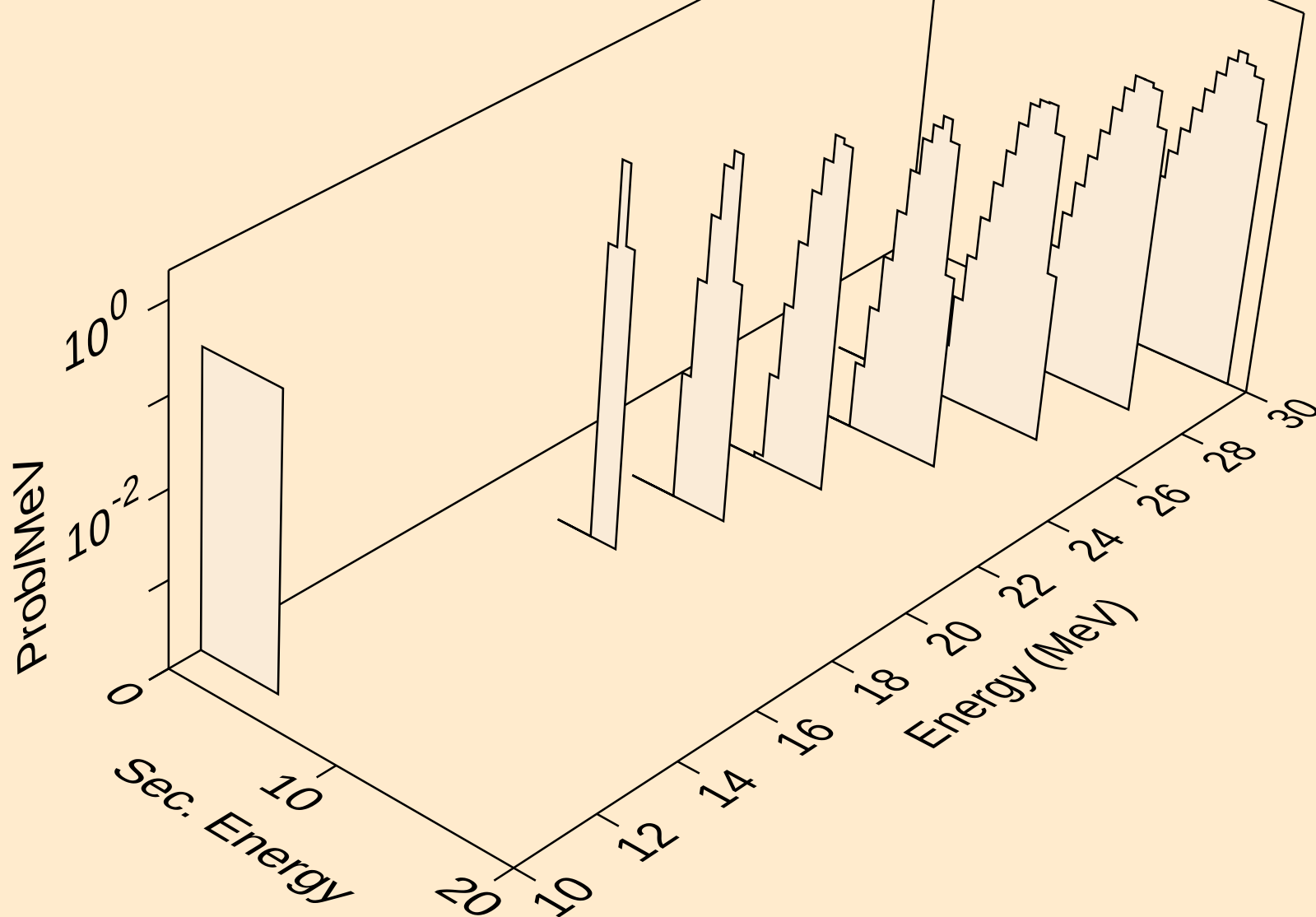
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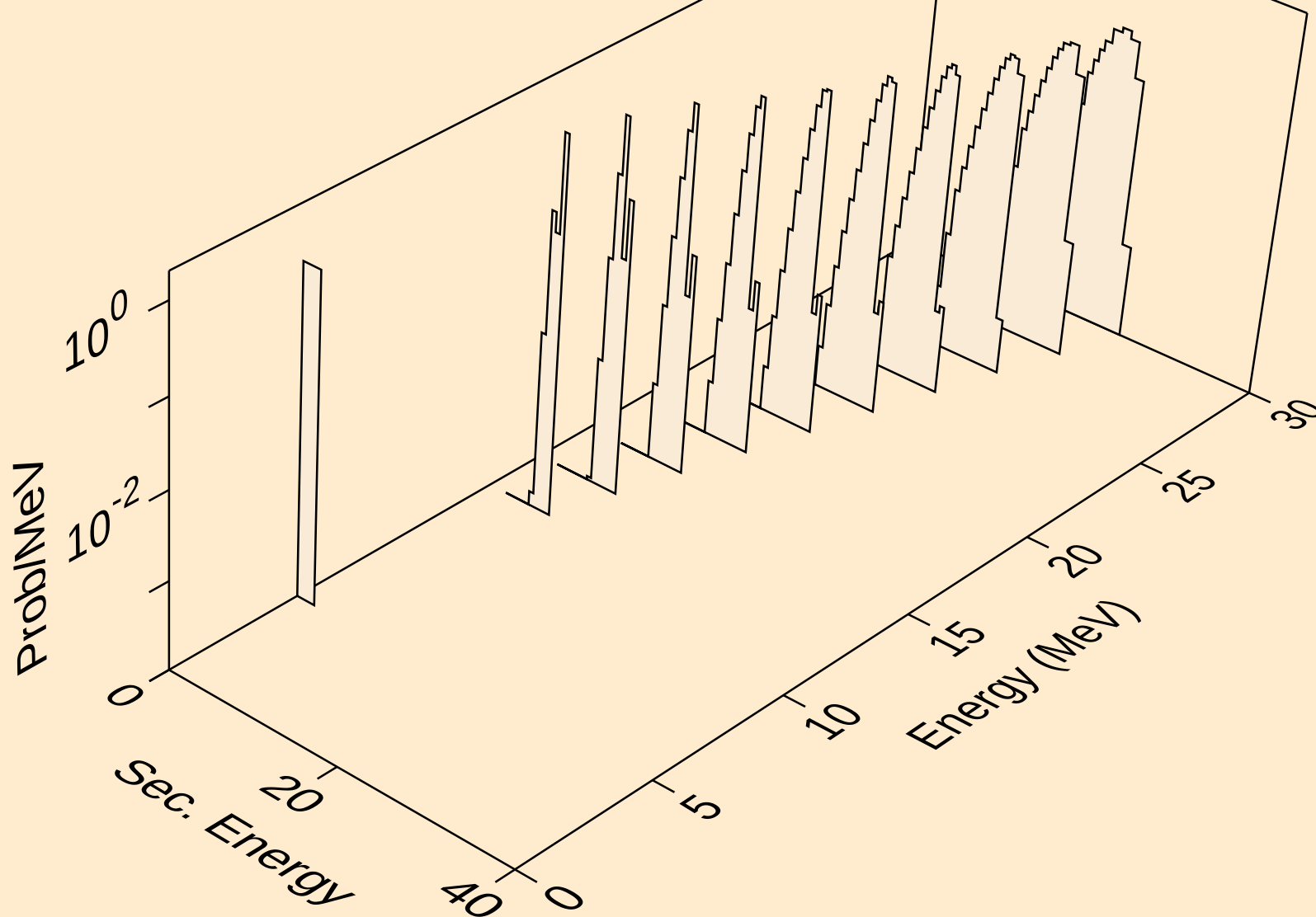
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he3s from (n,x)



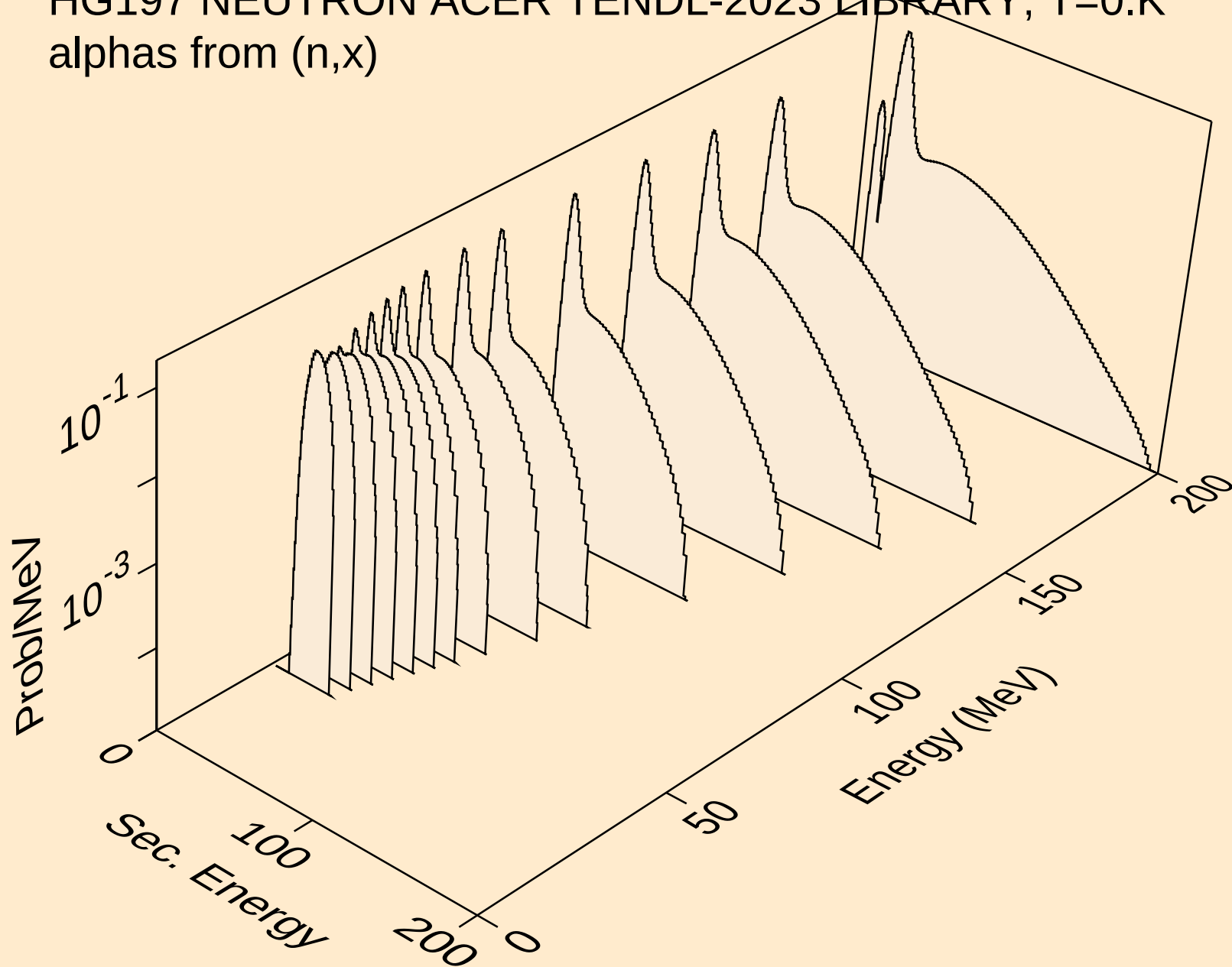
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he3s from (n,n\*)he3



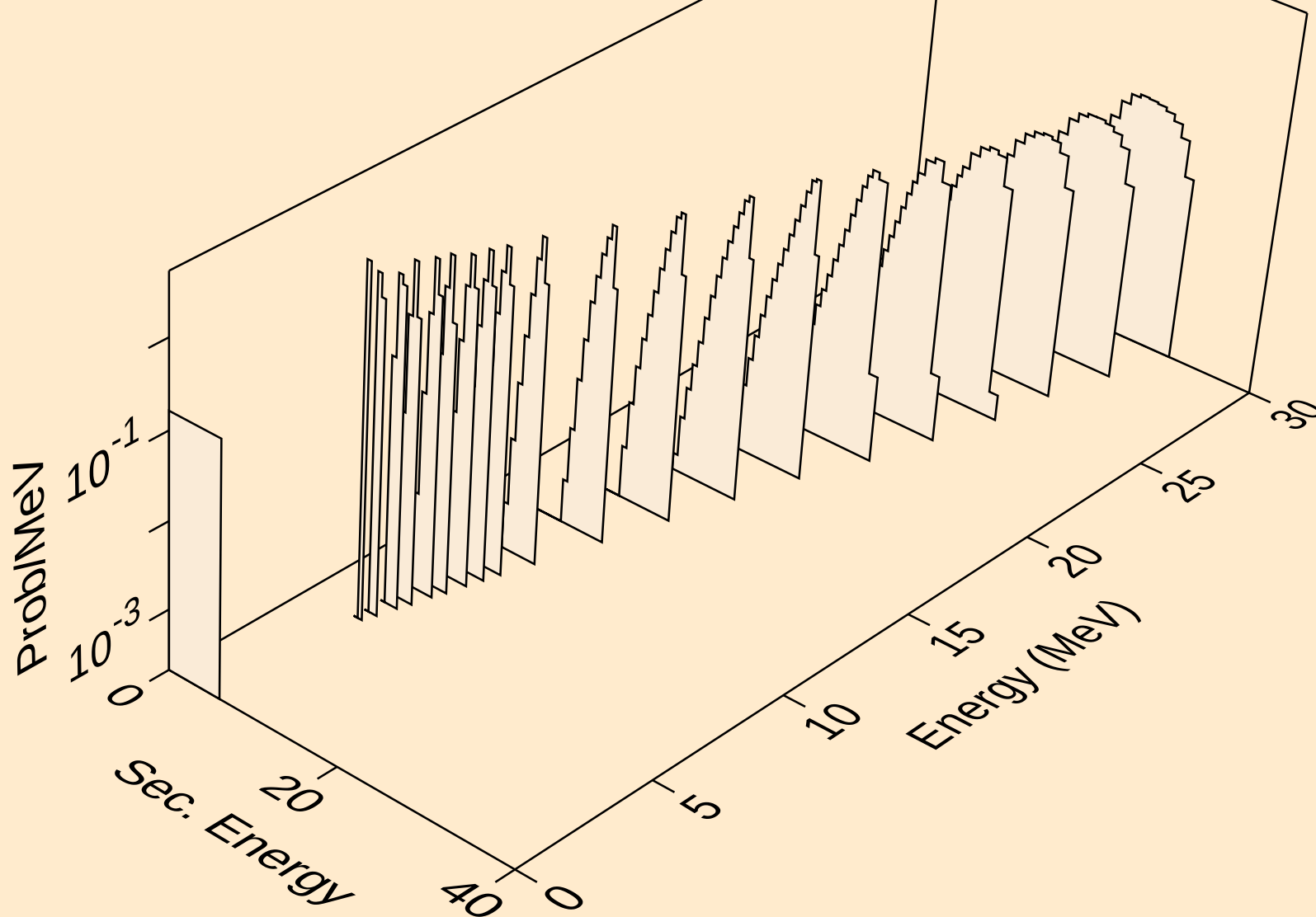
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he3s from (n,he3)



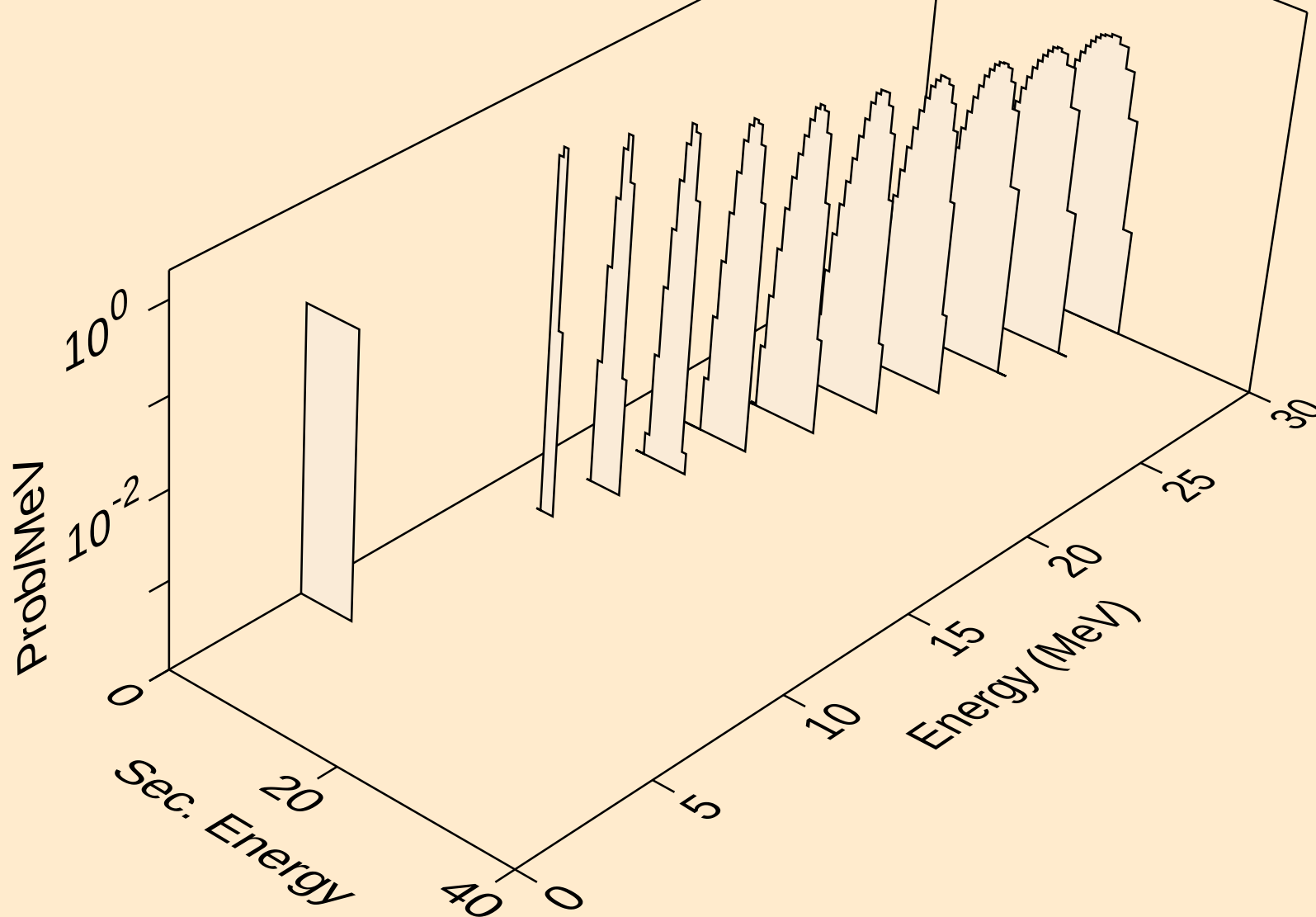
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alphas from (n,x)



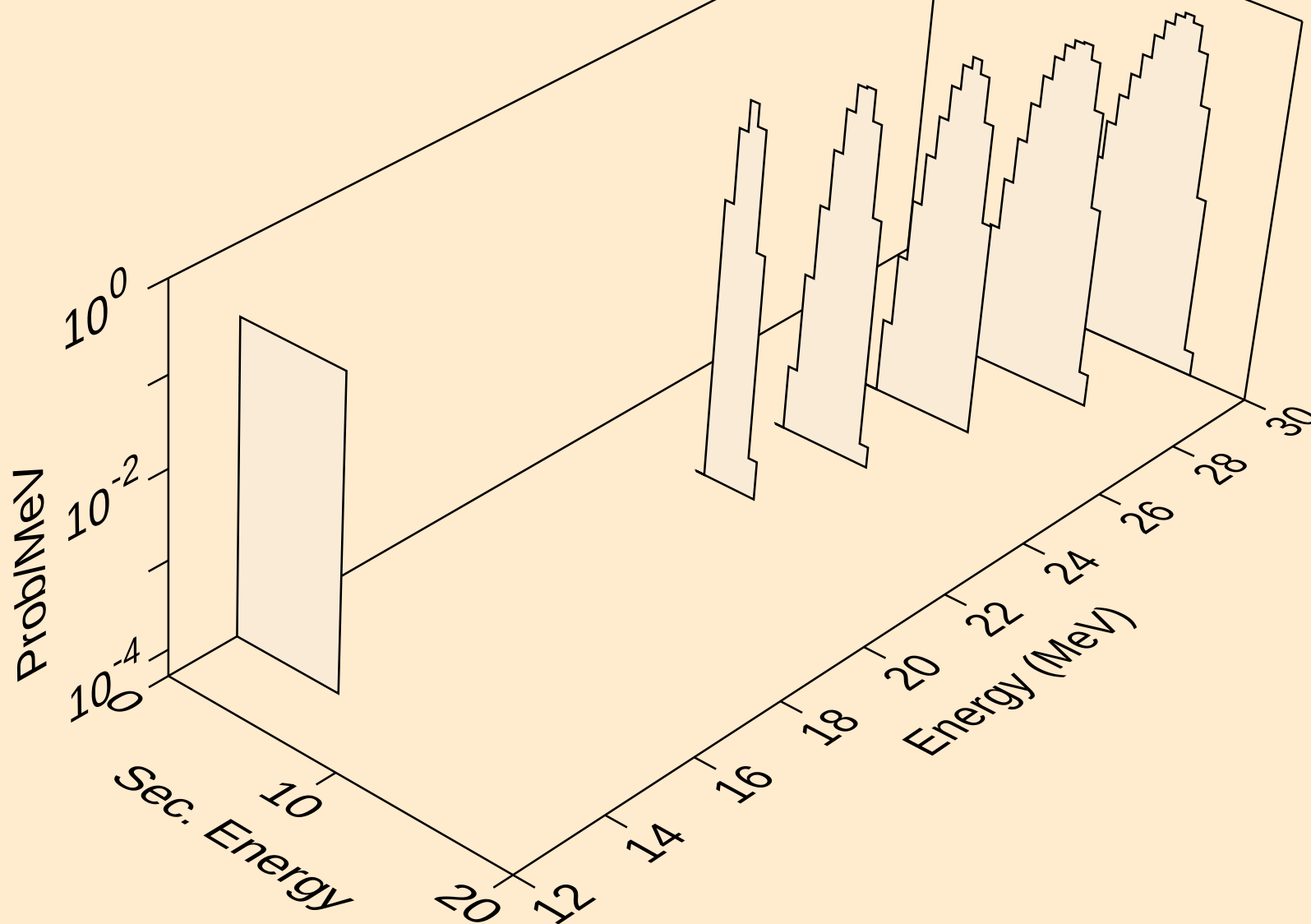
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alphas from (n,n\*)a



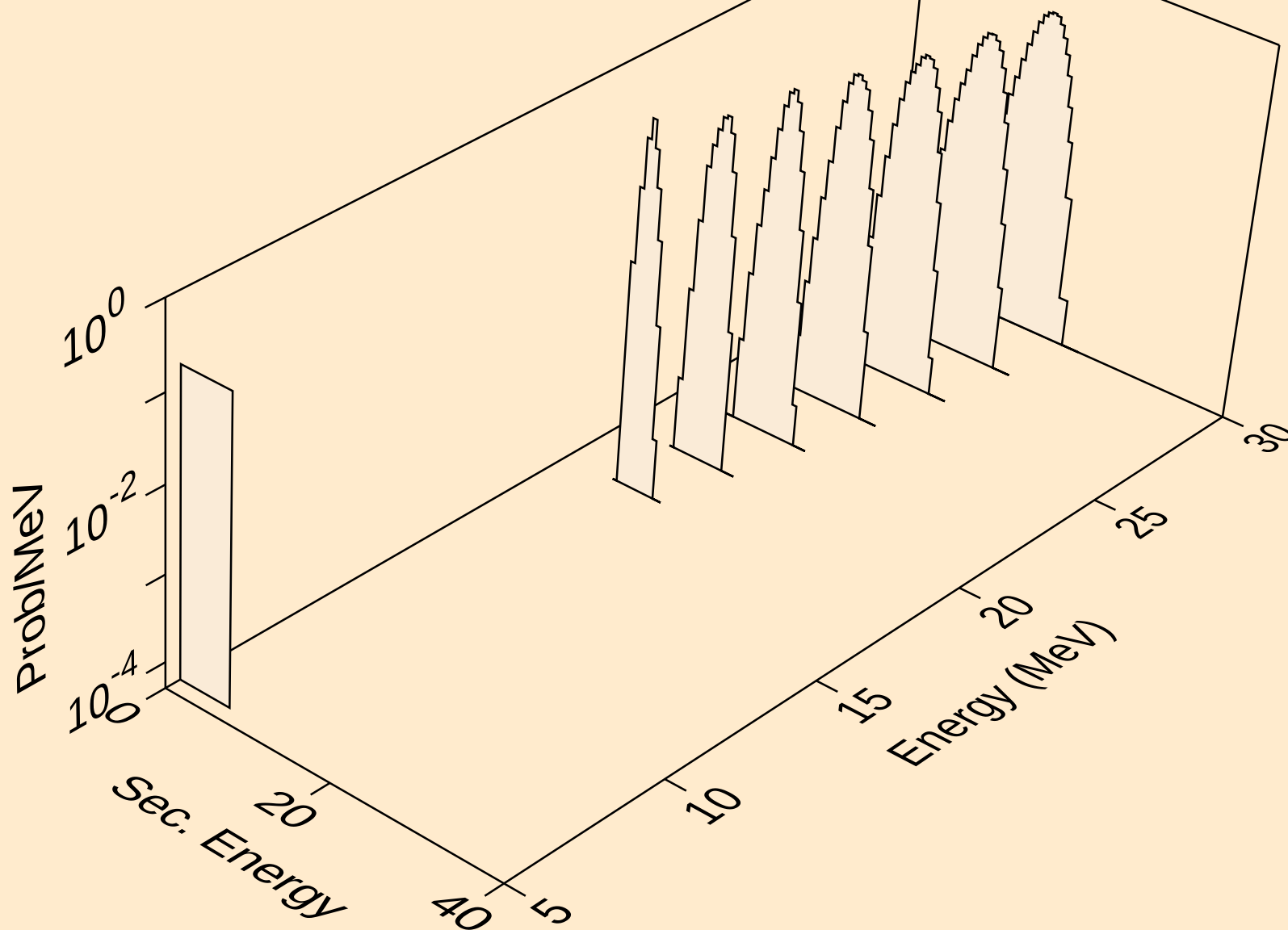
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alphas from (n,2n)a



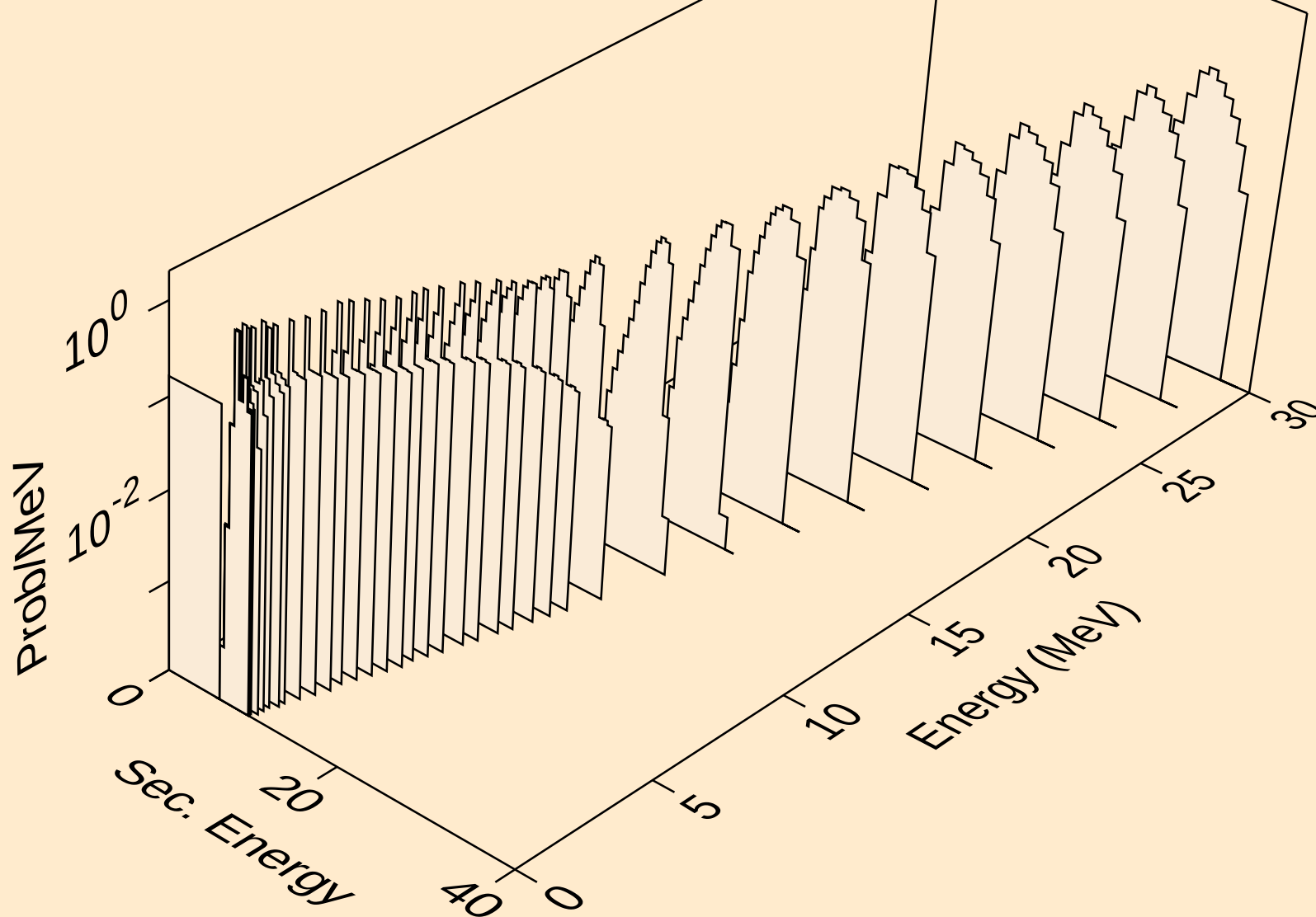
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alphas from (n,3n)a



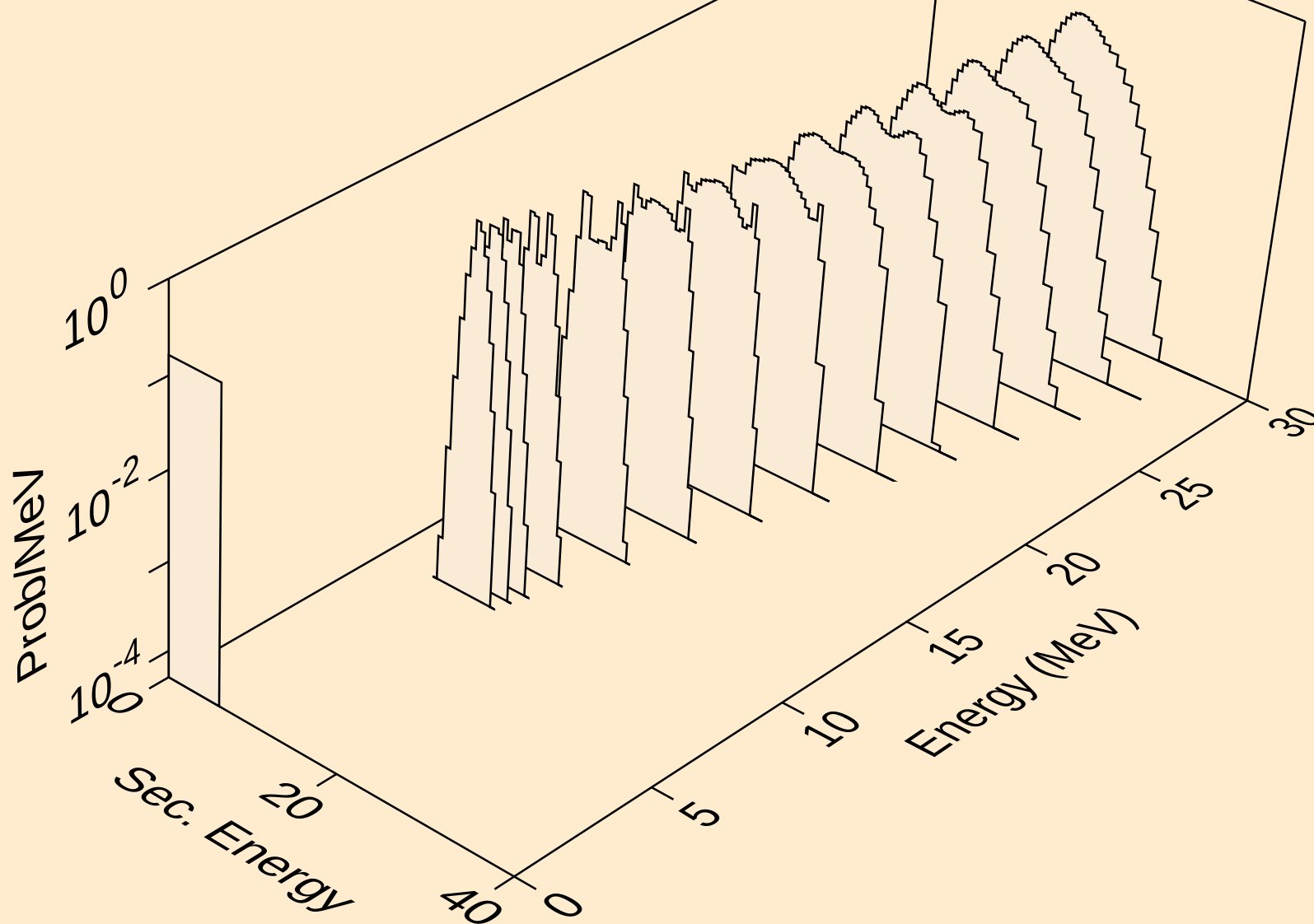
HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



HG197 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)

