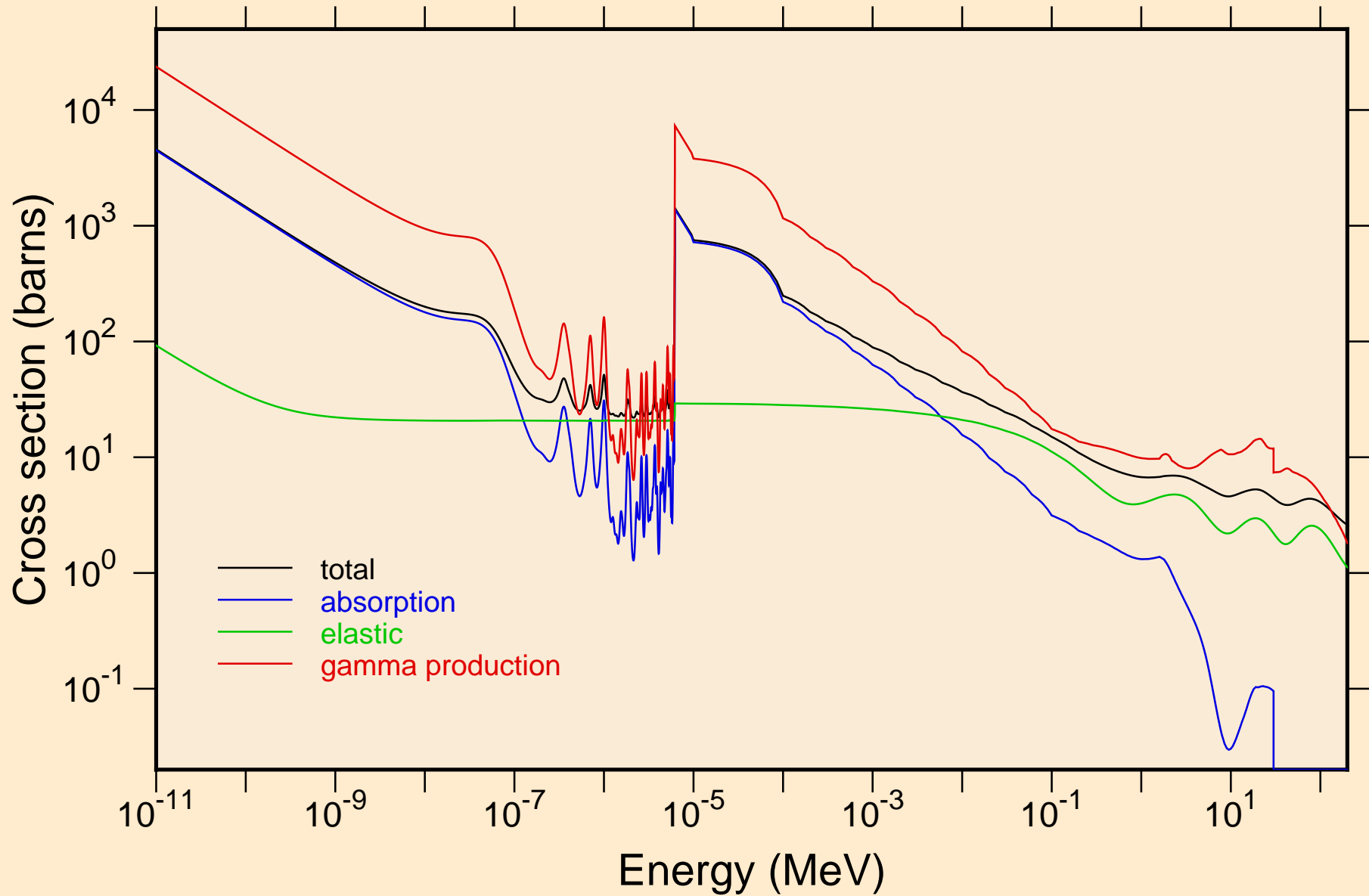
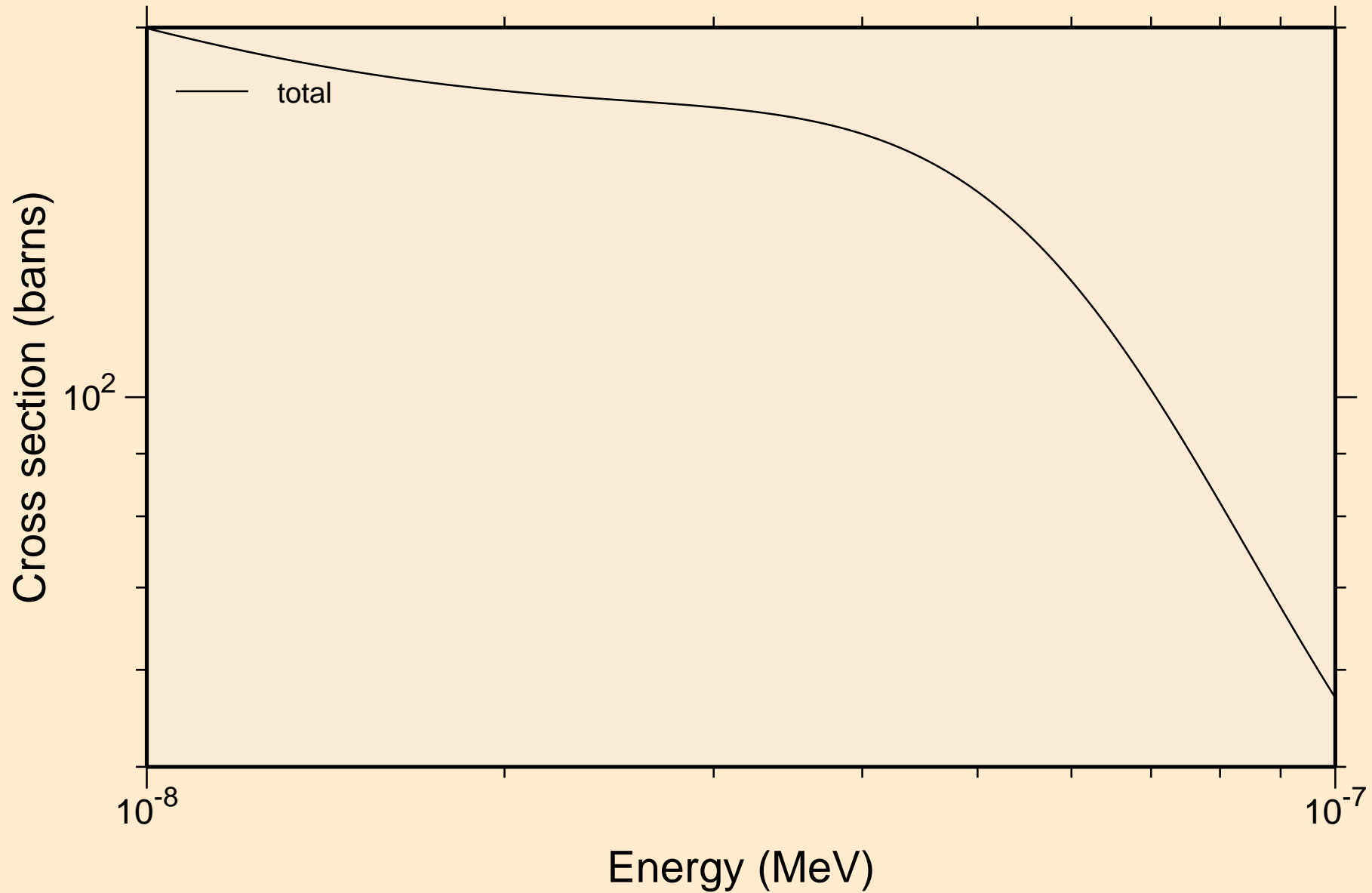


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

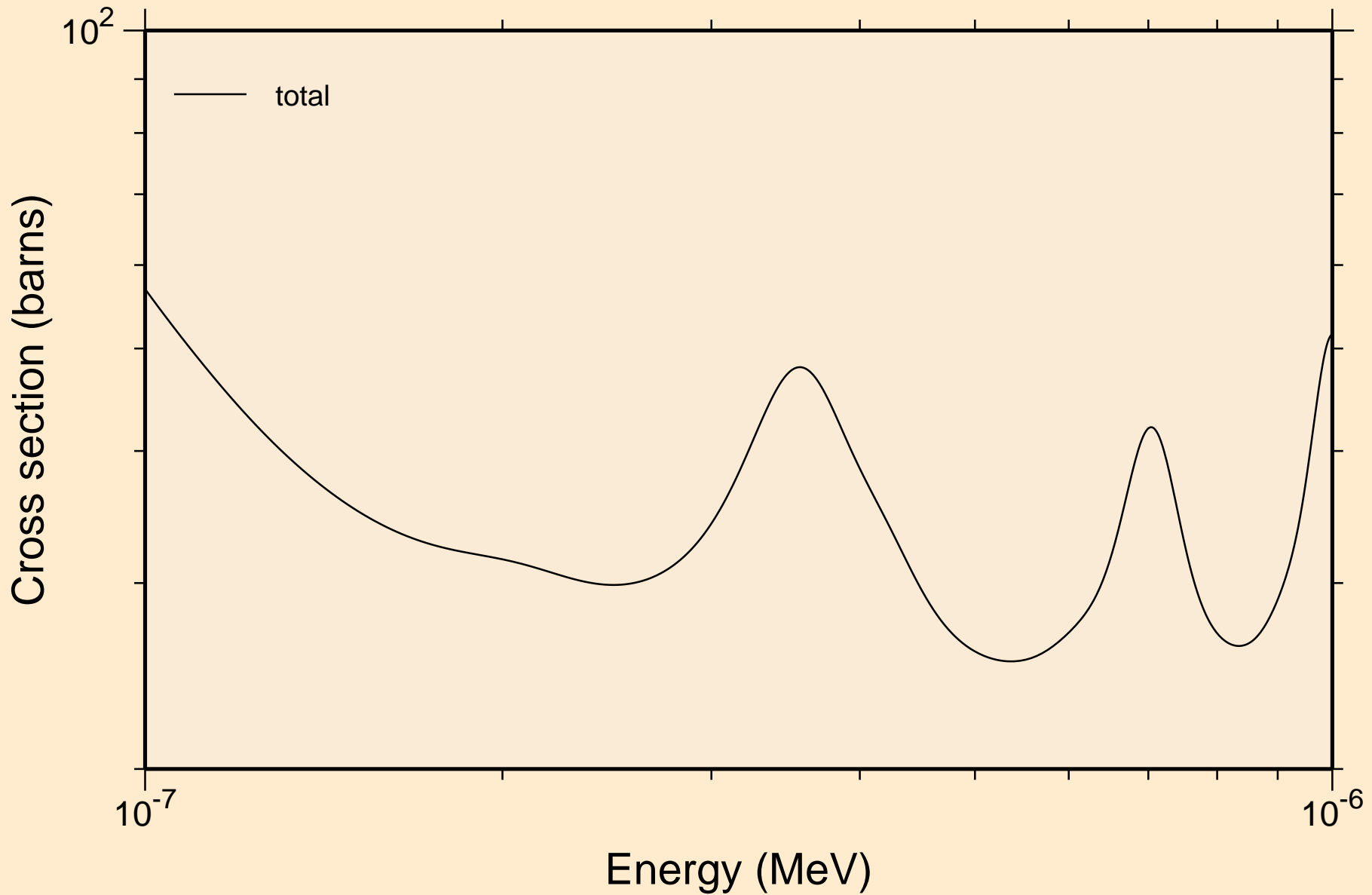
## Principal cross sections



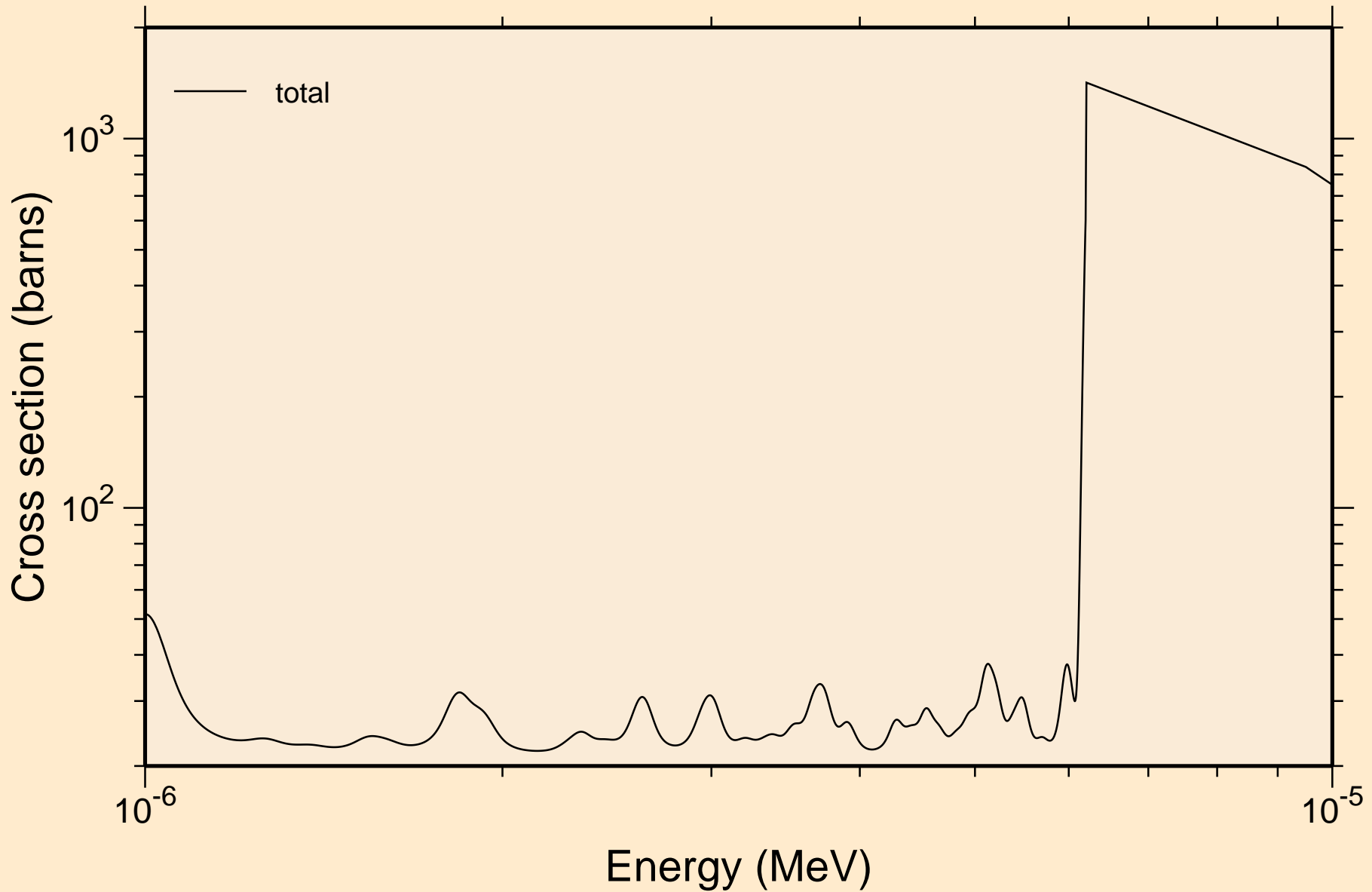
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



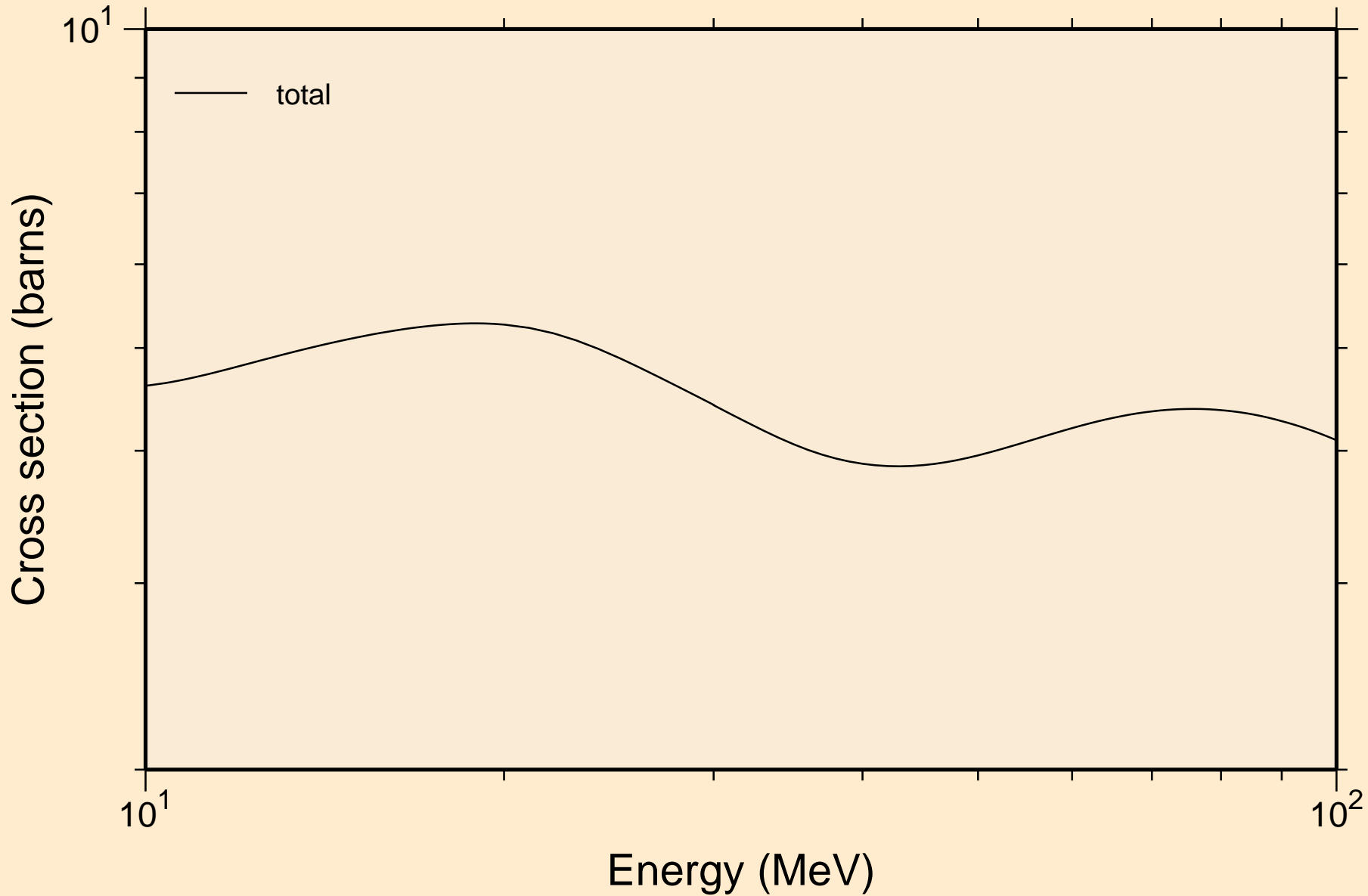
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resonance total cross section



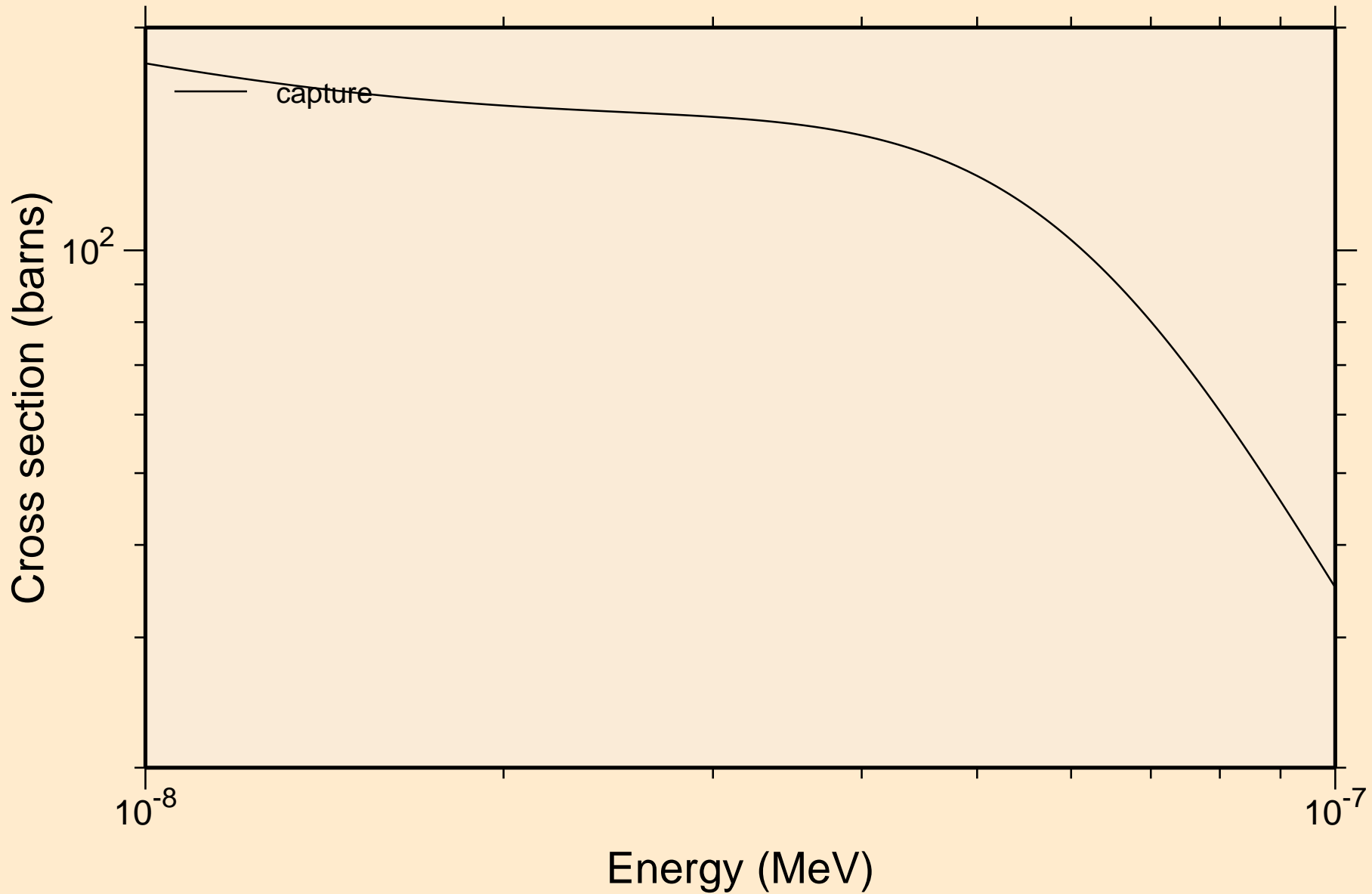
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



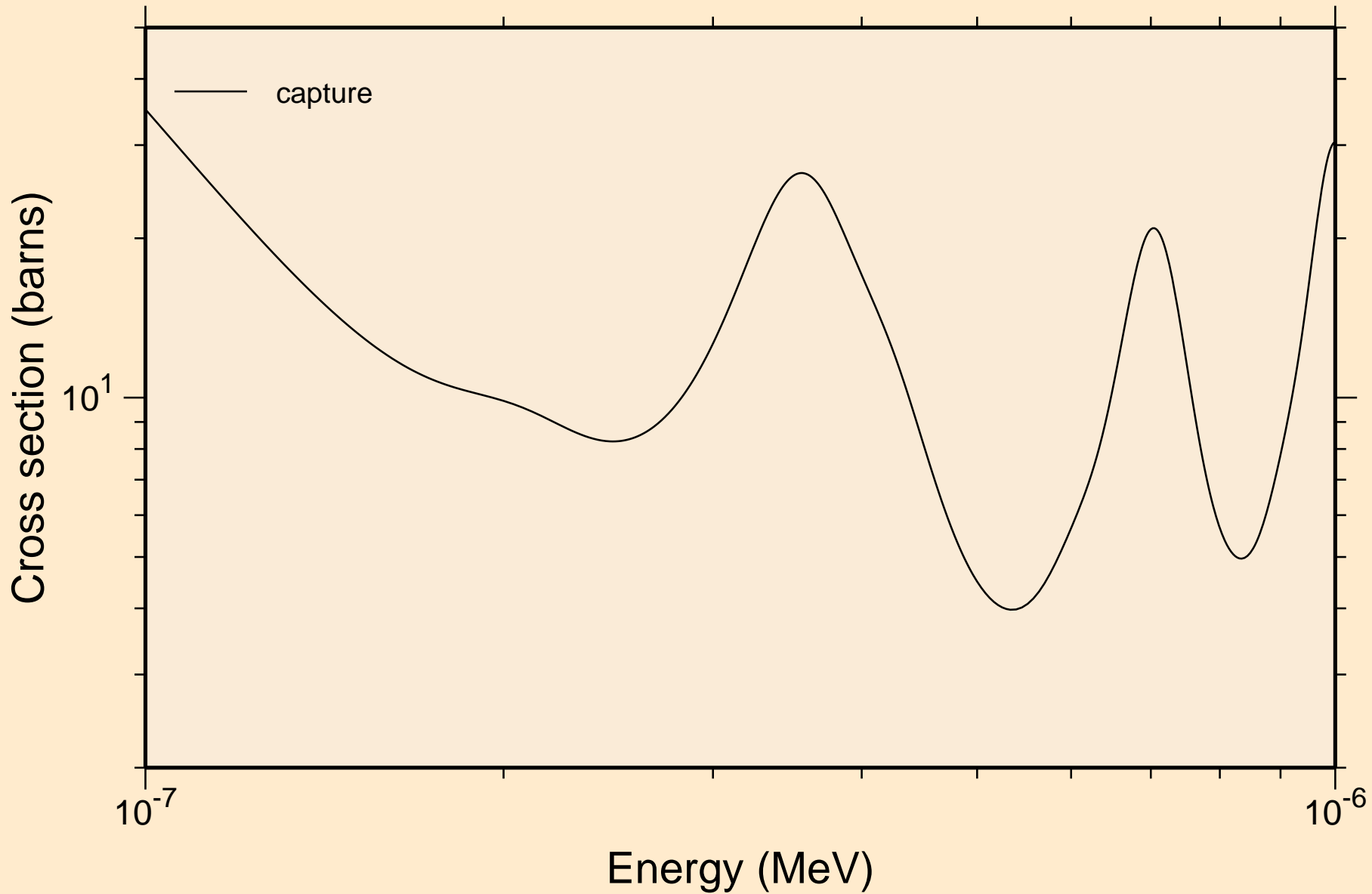
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



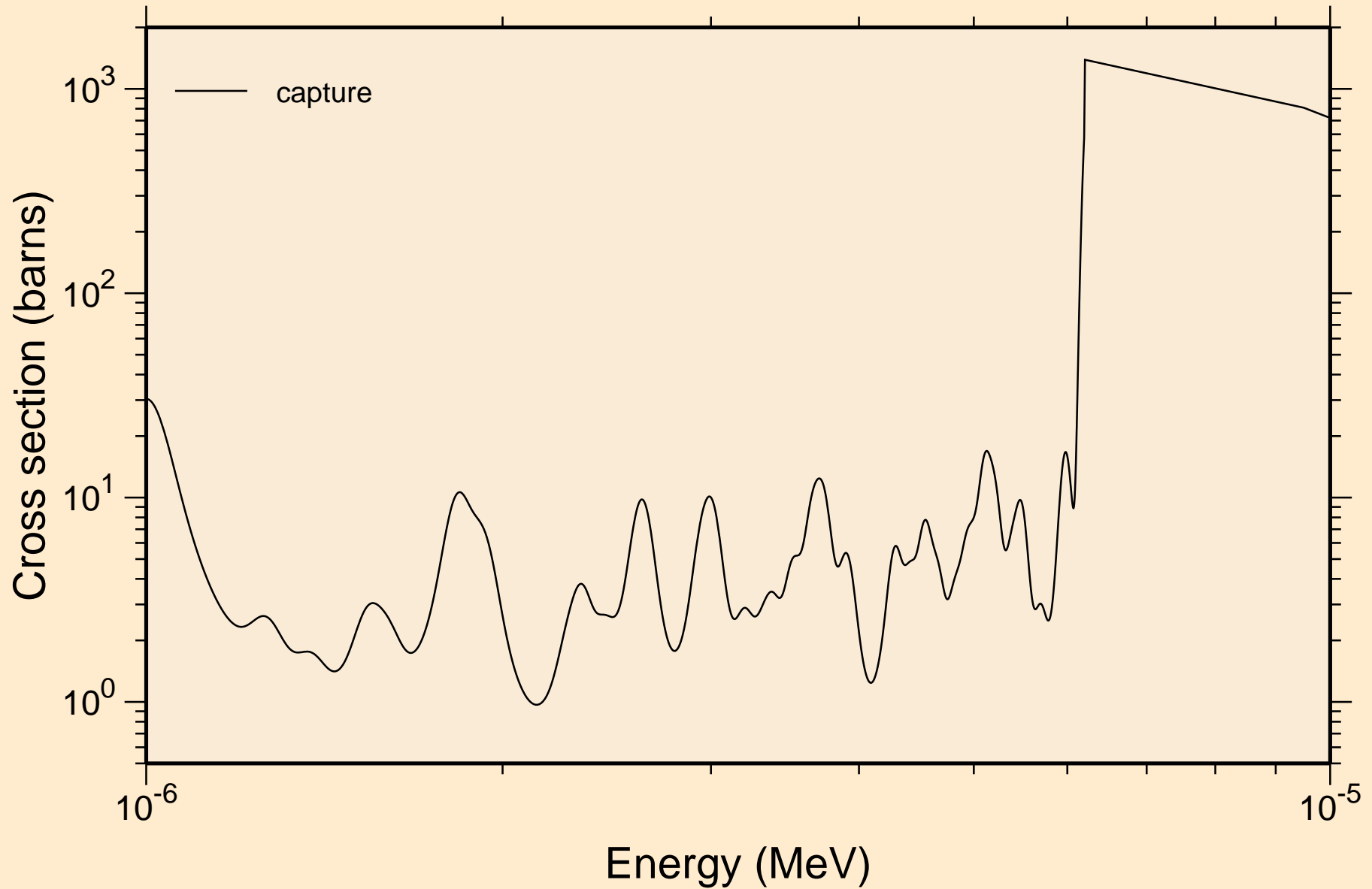
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

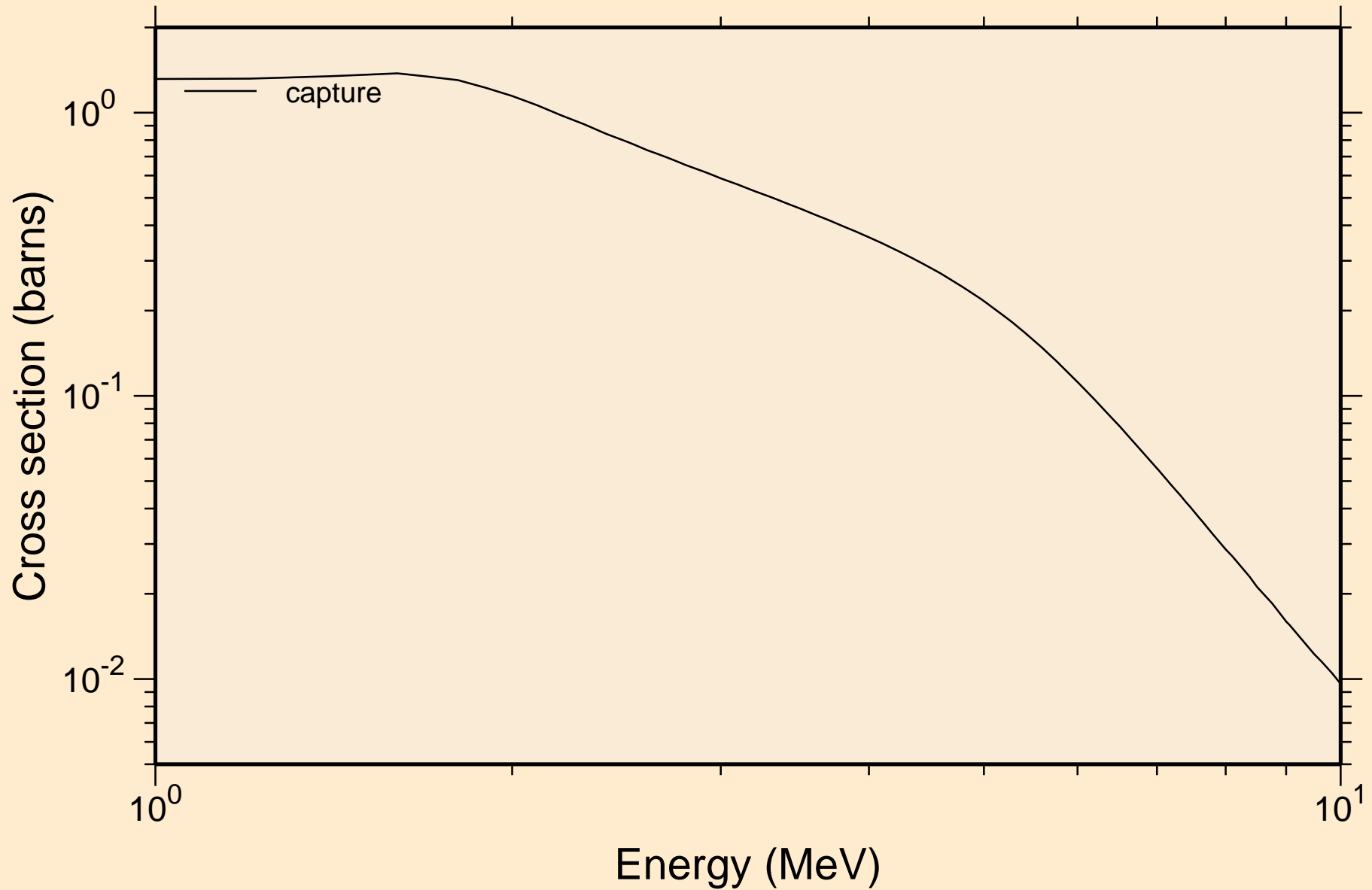


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

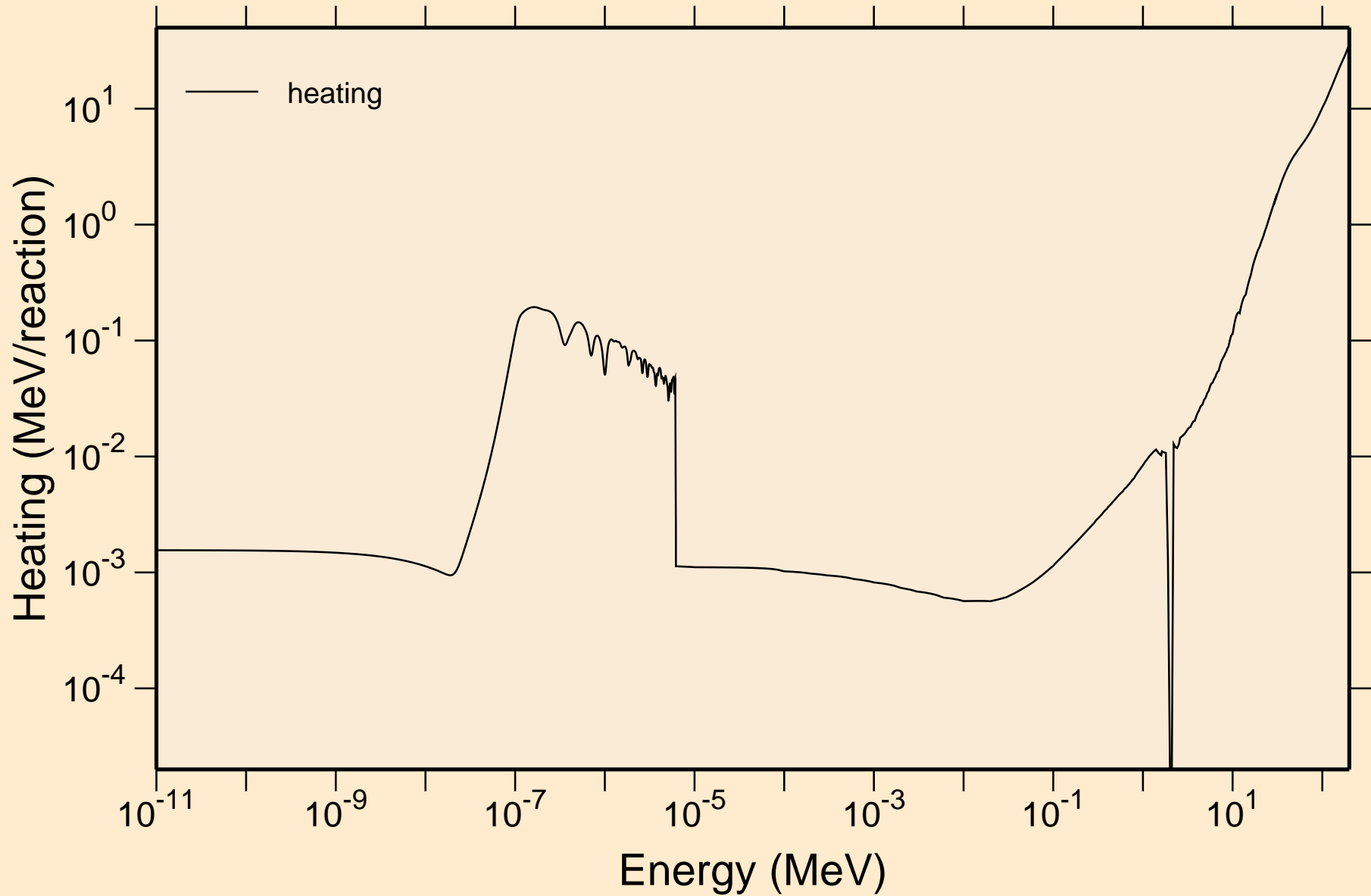




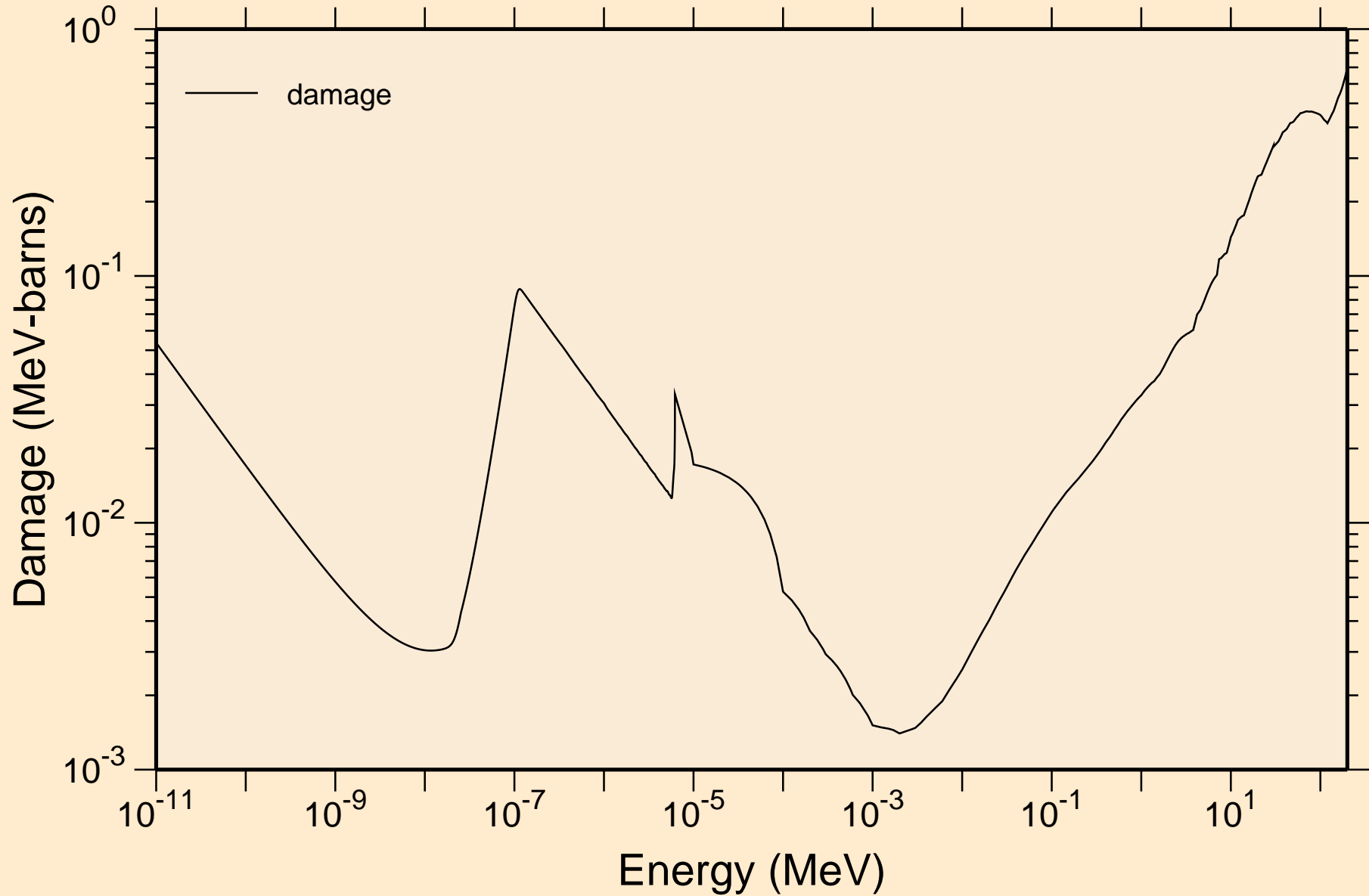
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

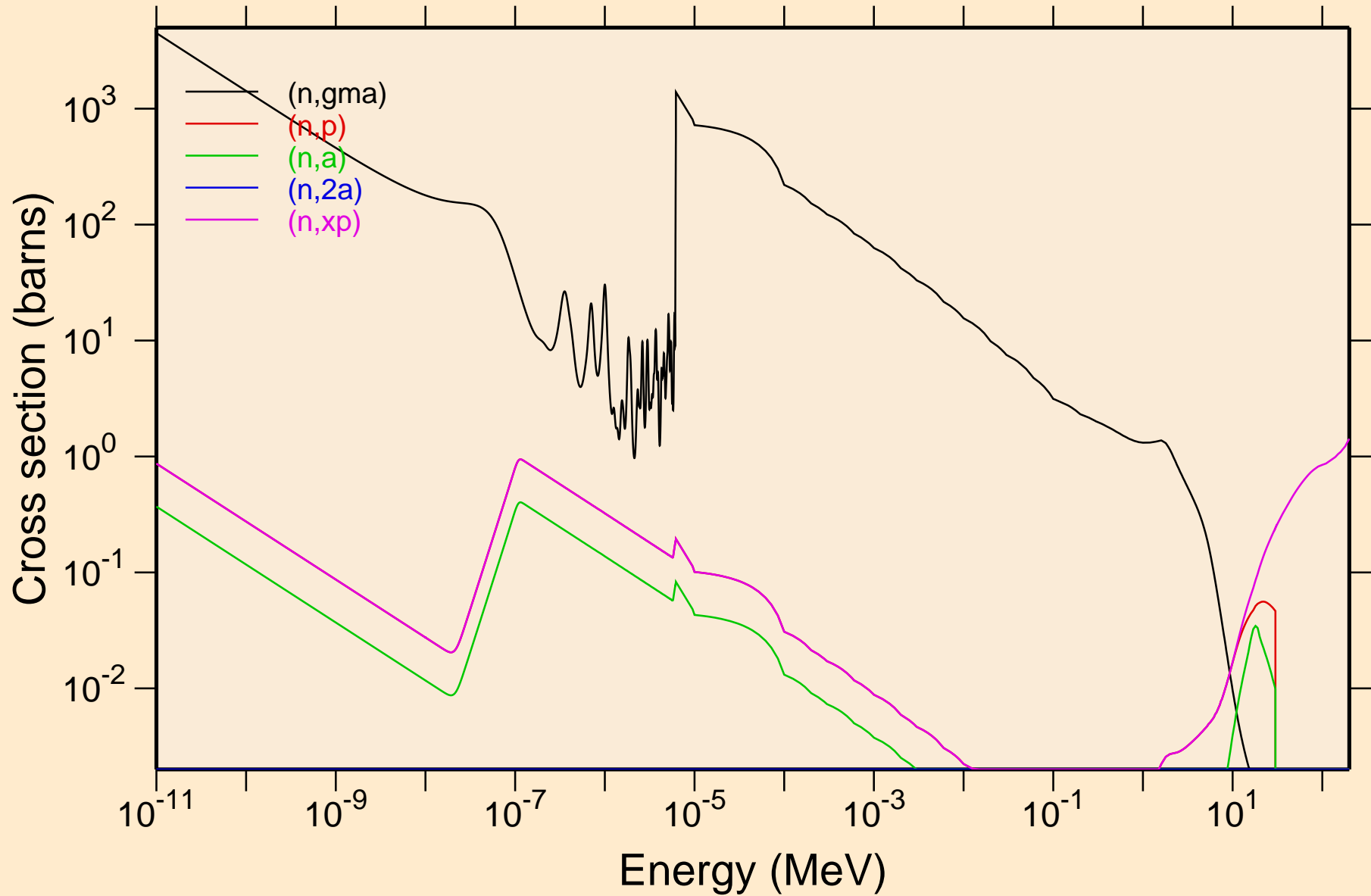


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

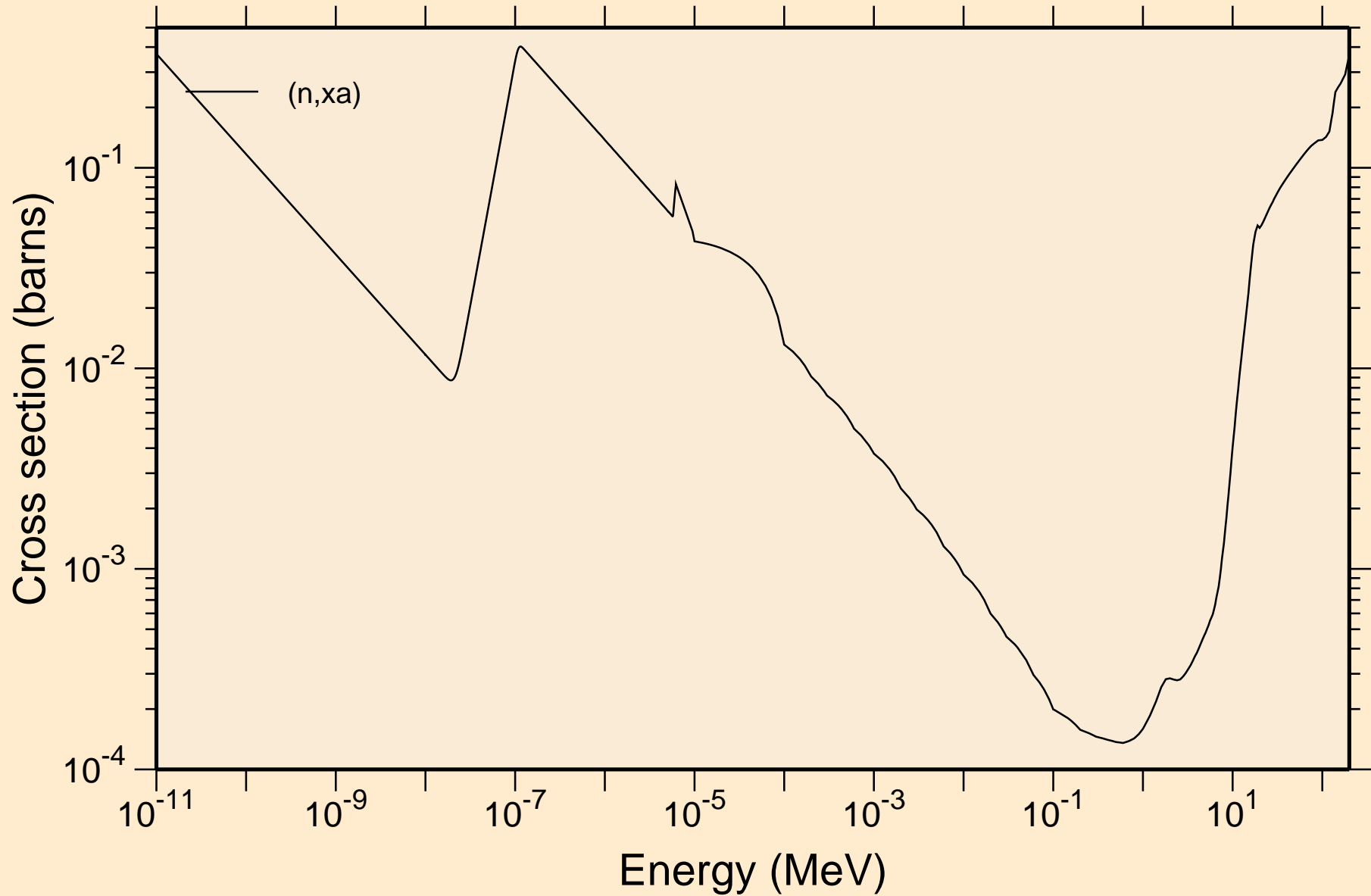


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

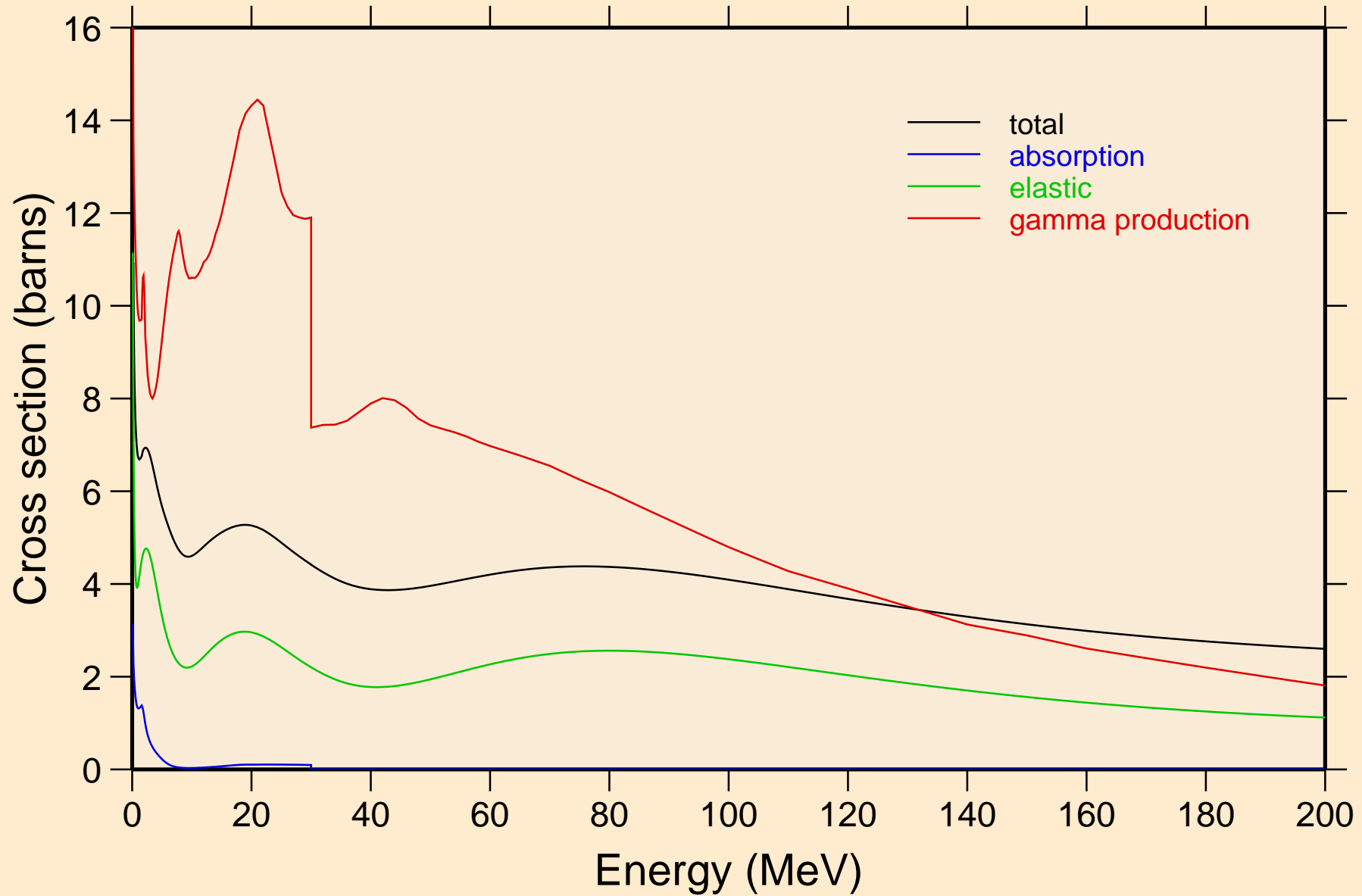


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

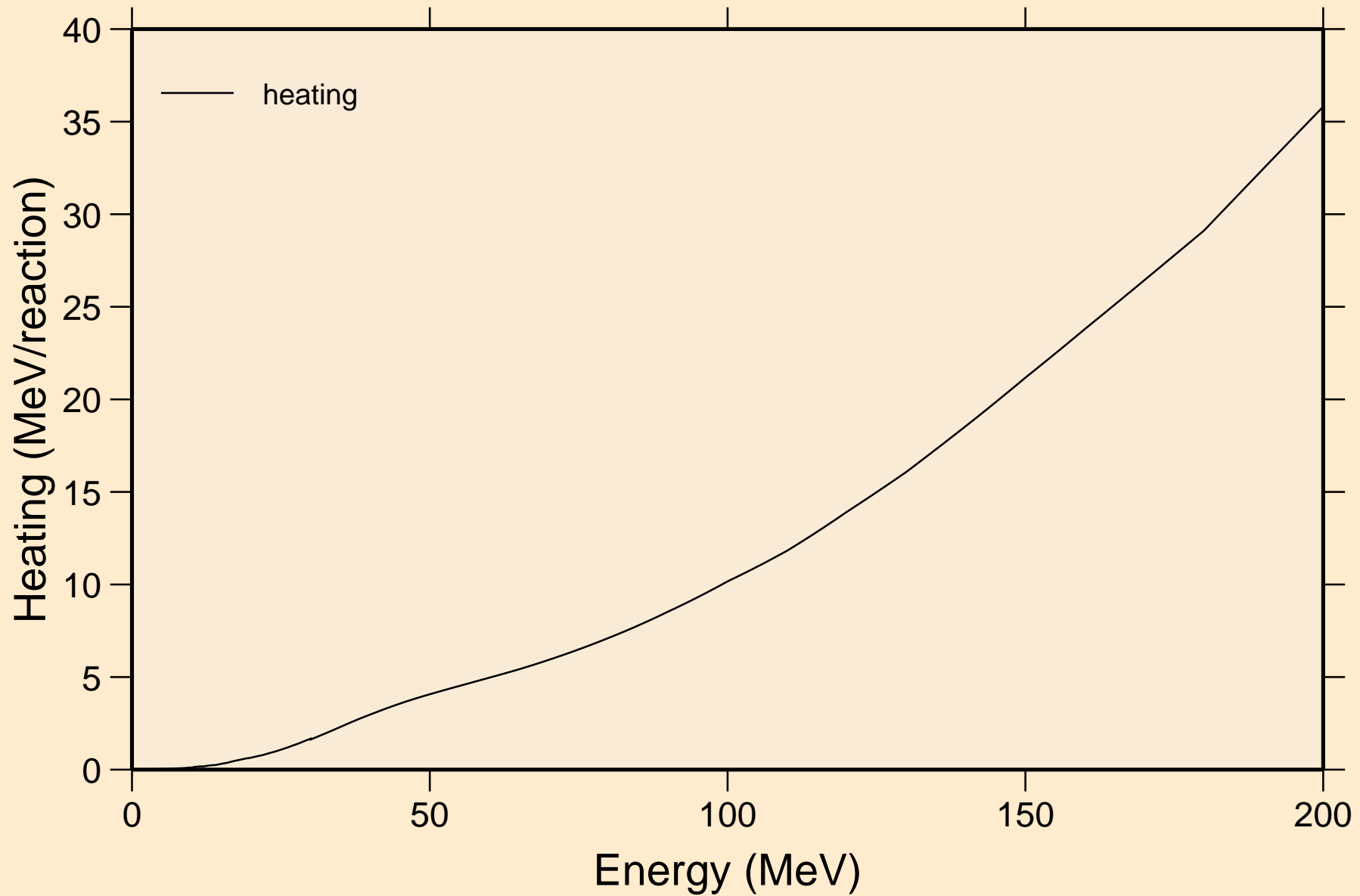


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

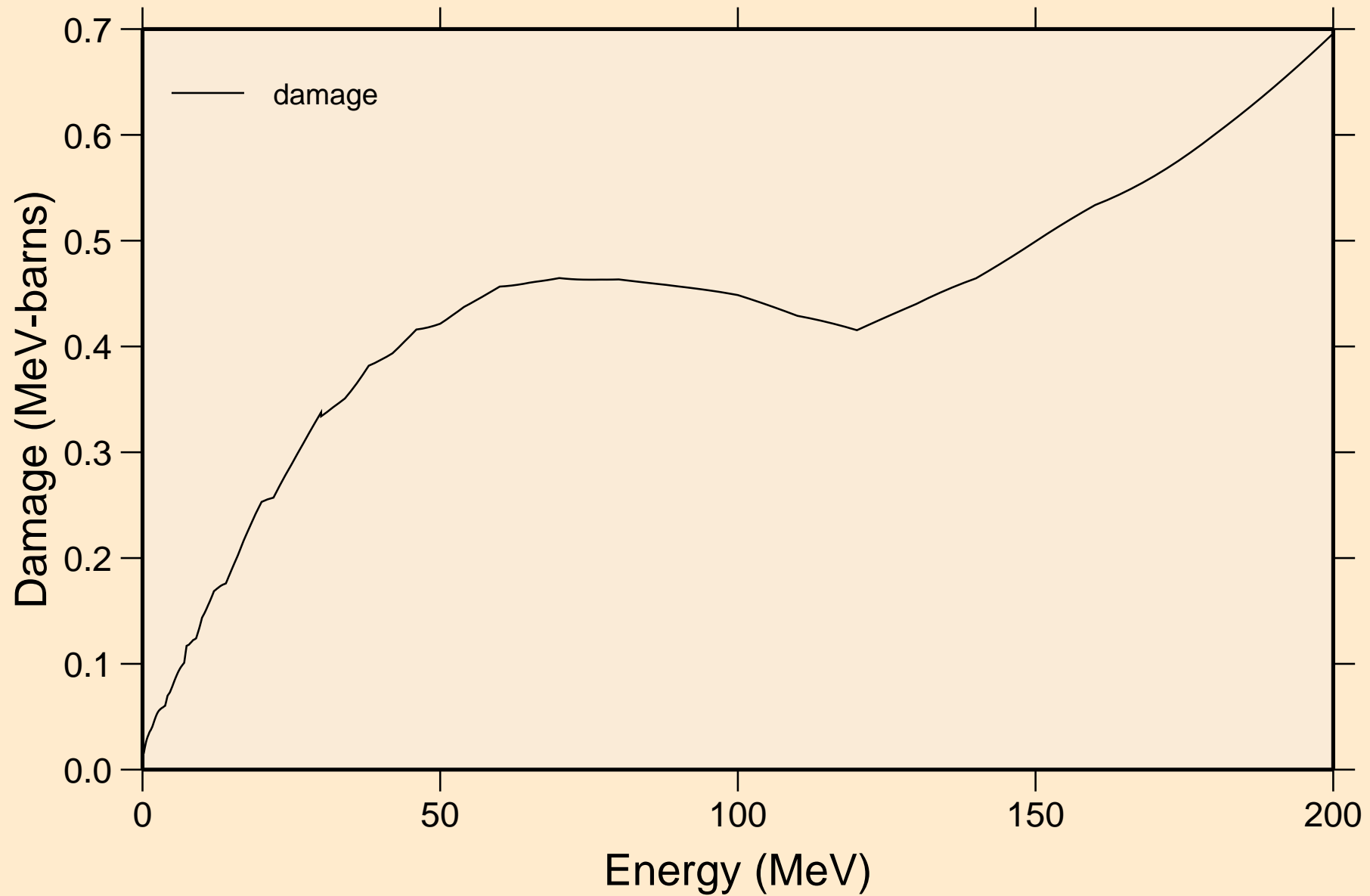


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



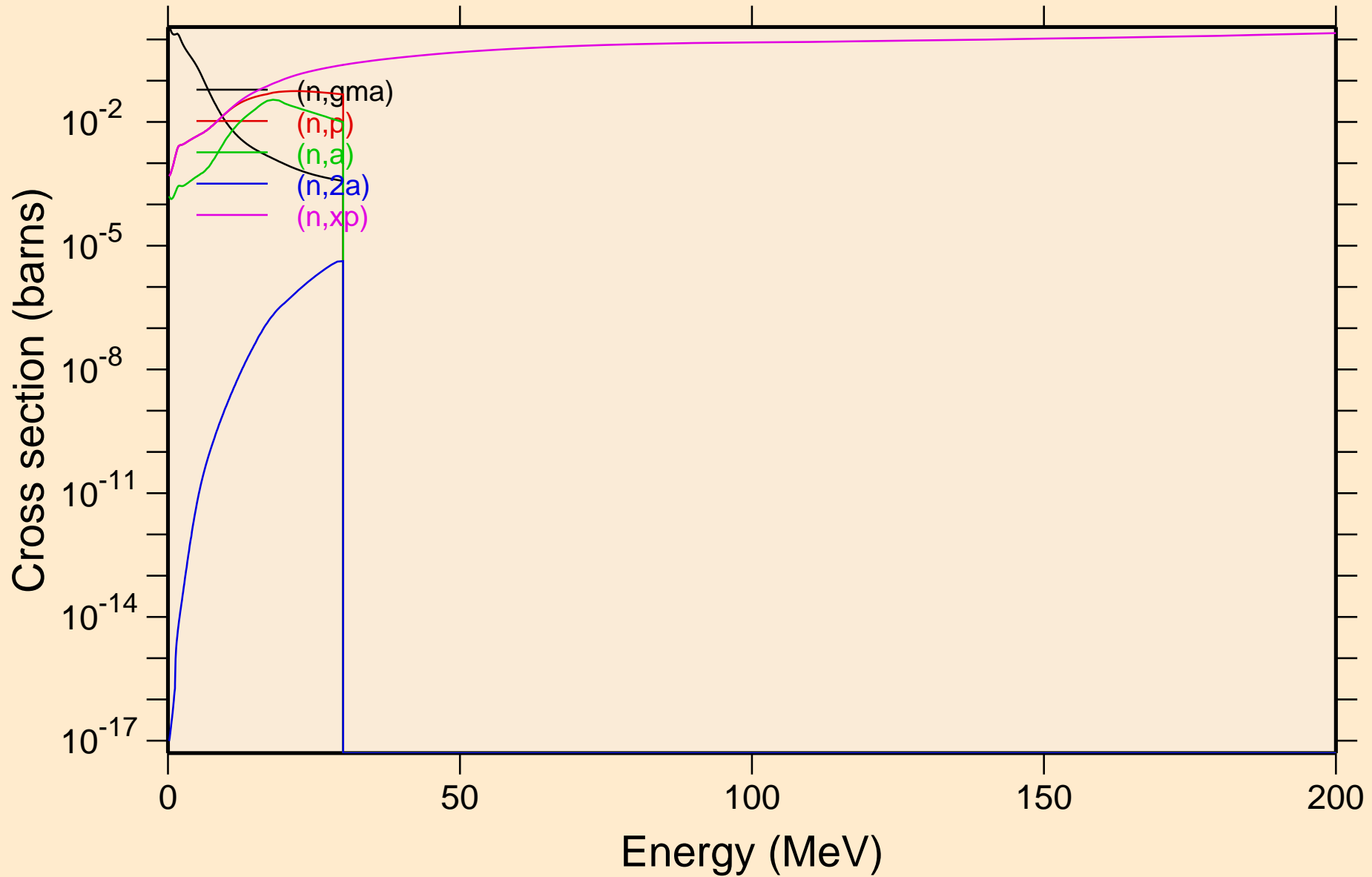
# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Damage

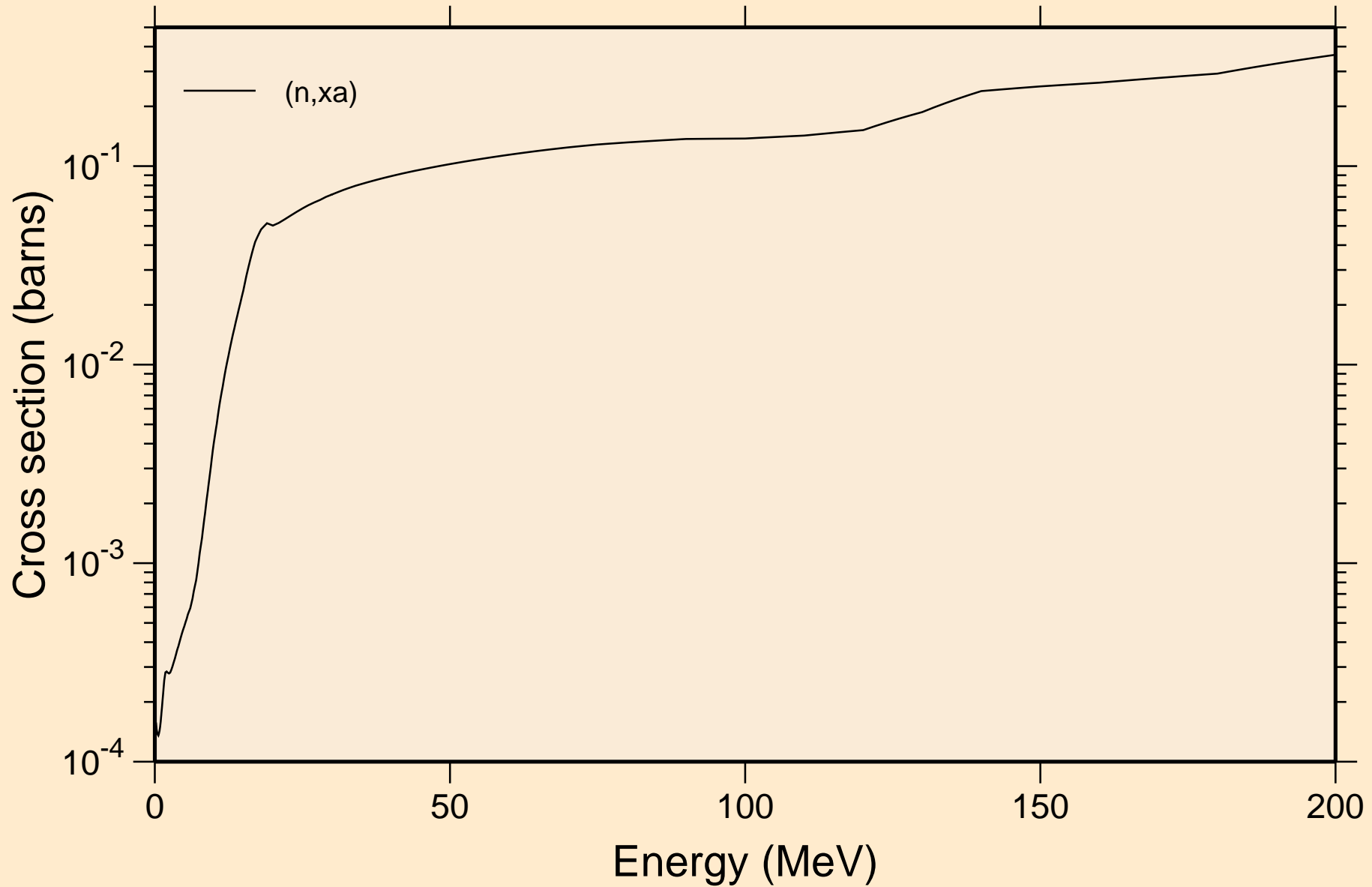




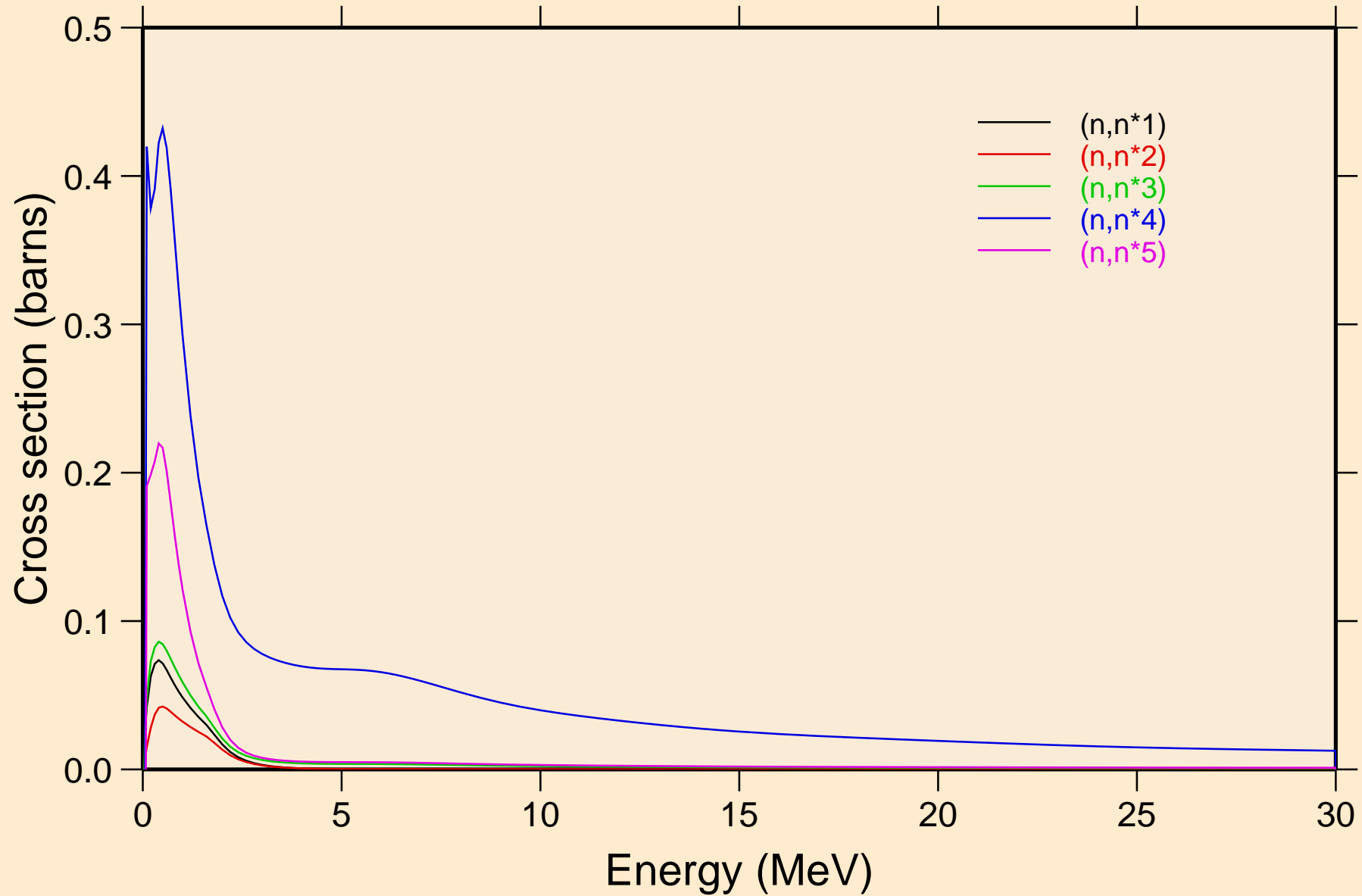
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



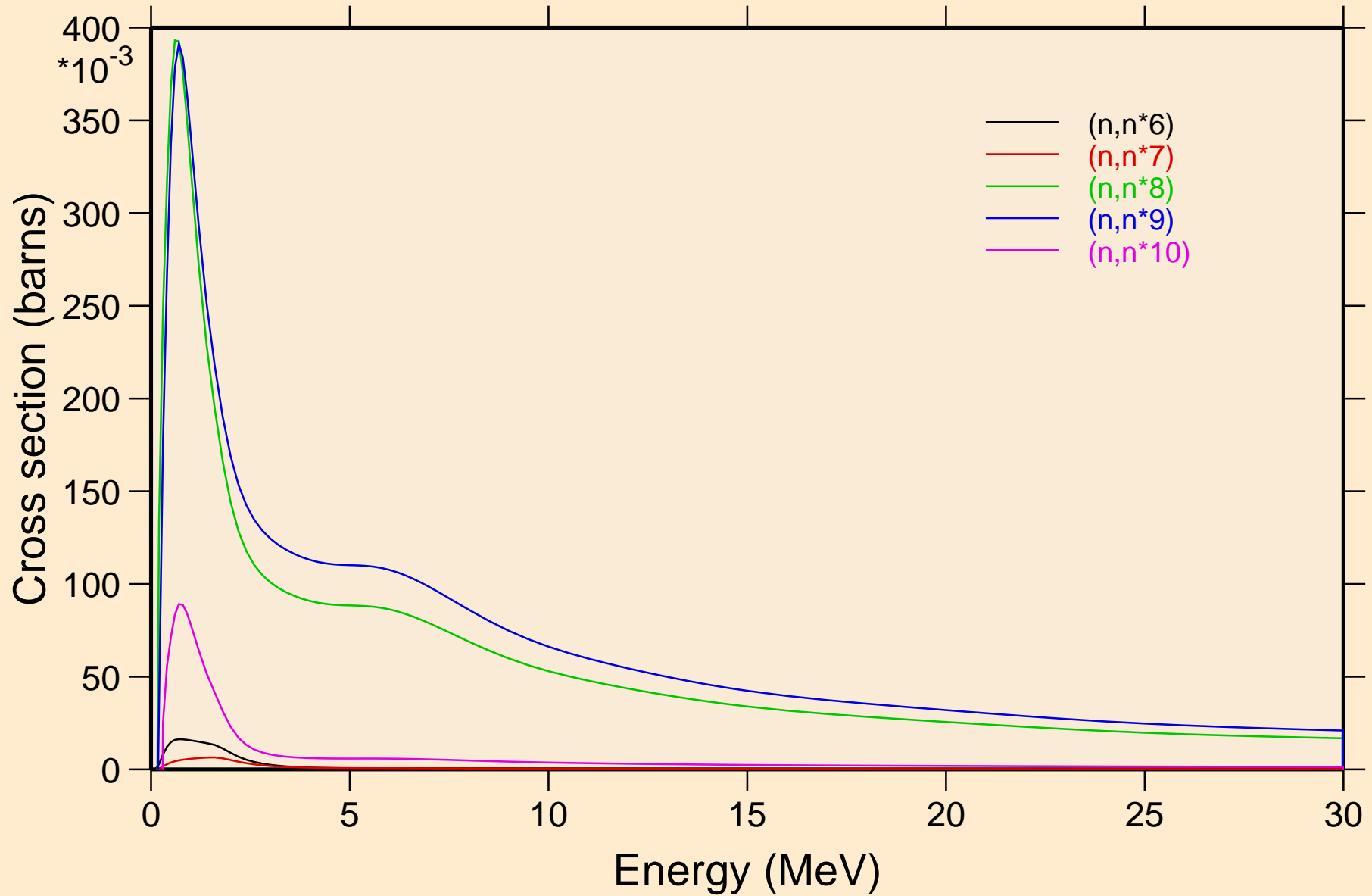
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



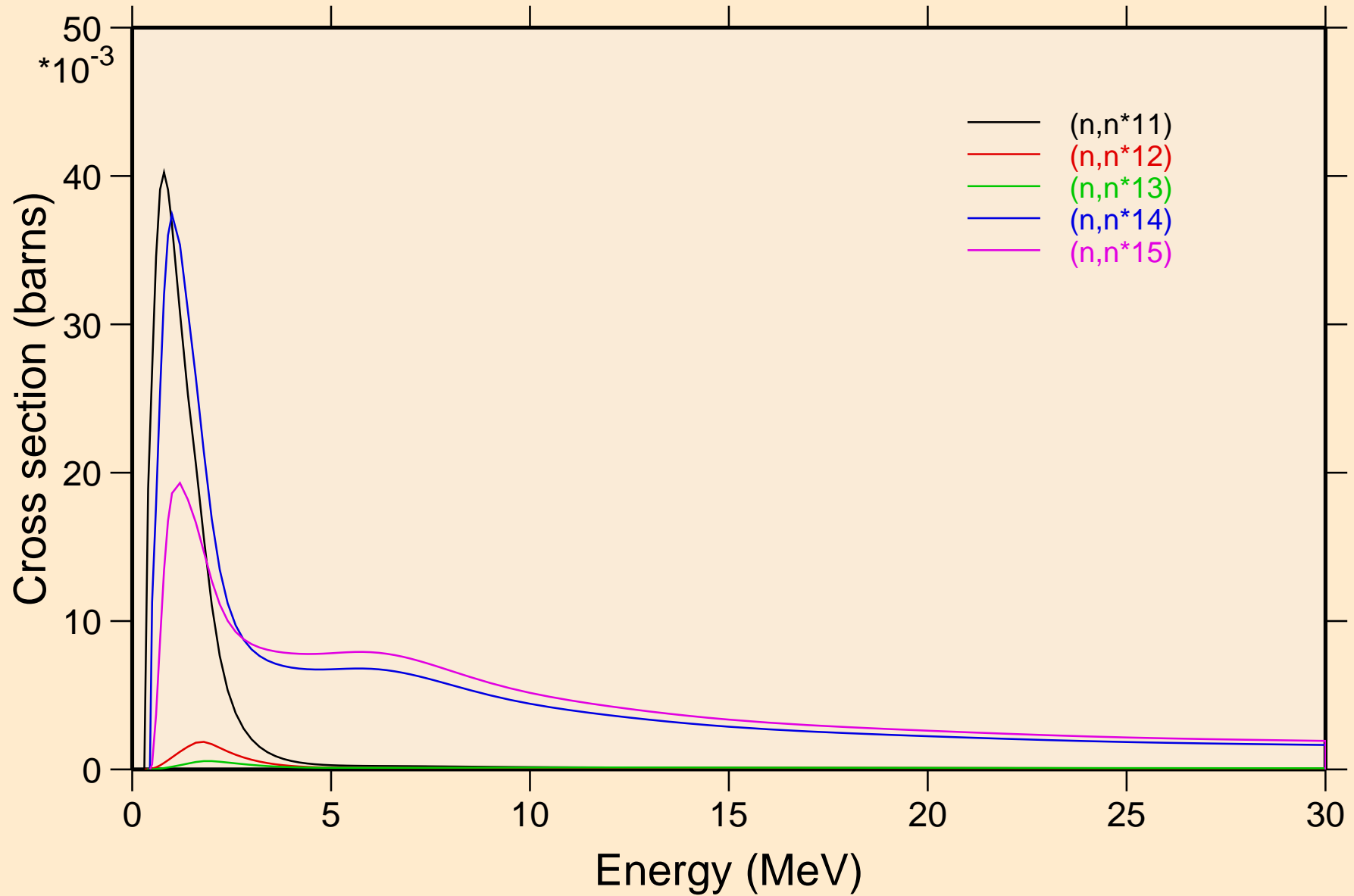
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

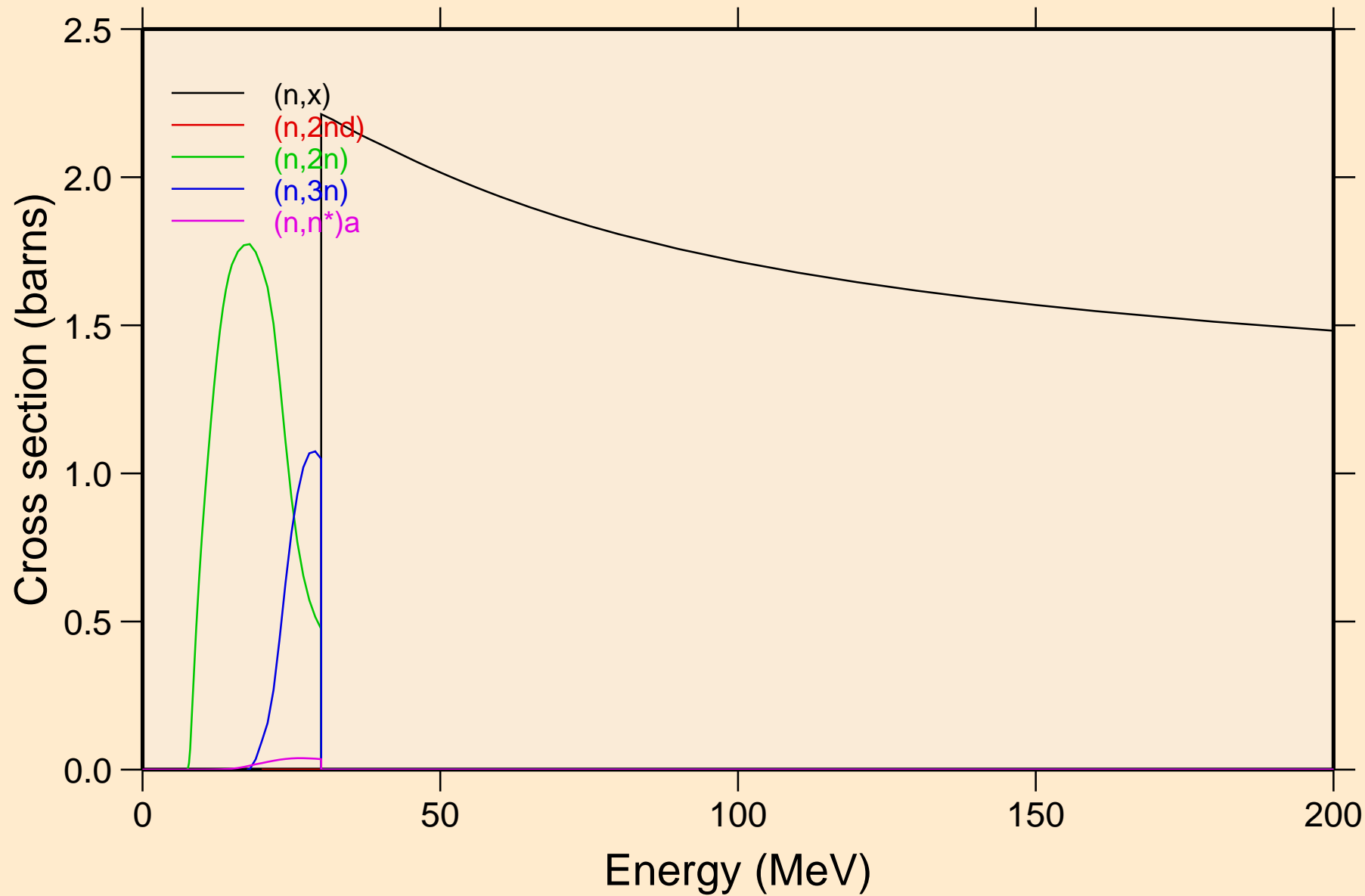


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



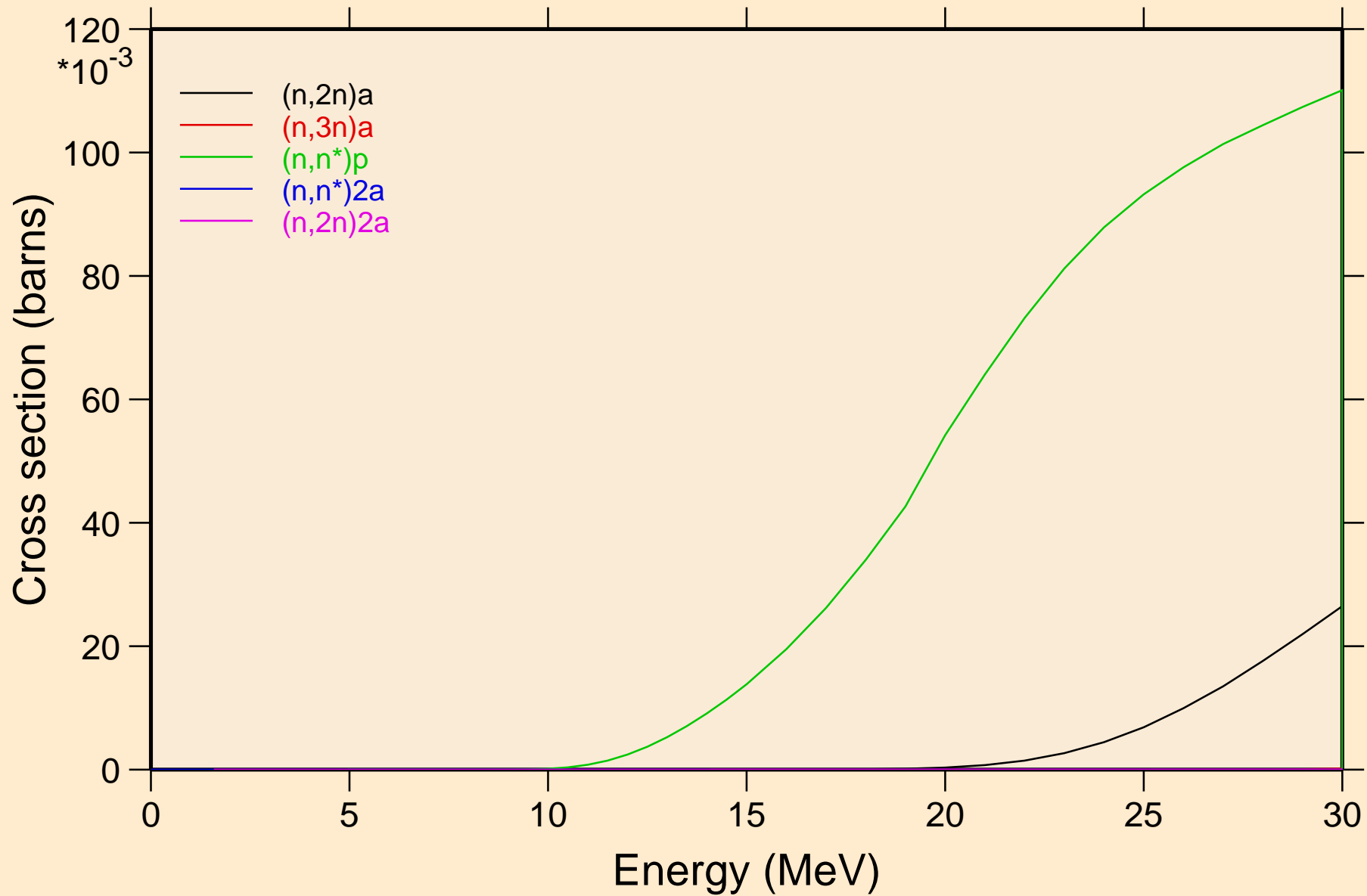
# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions



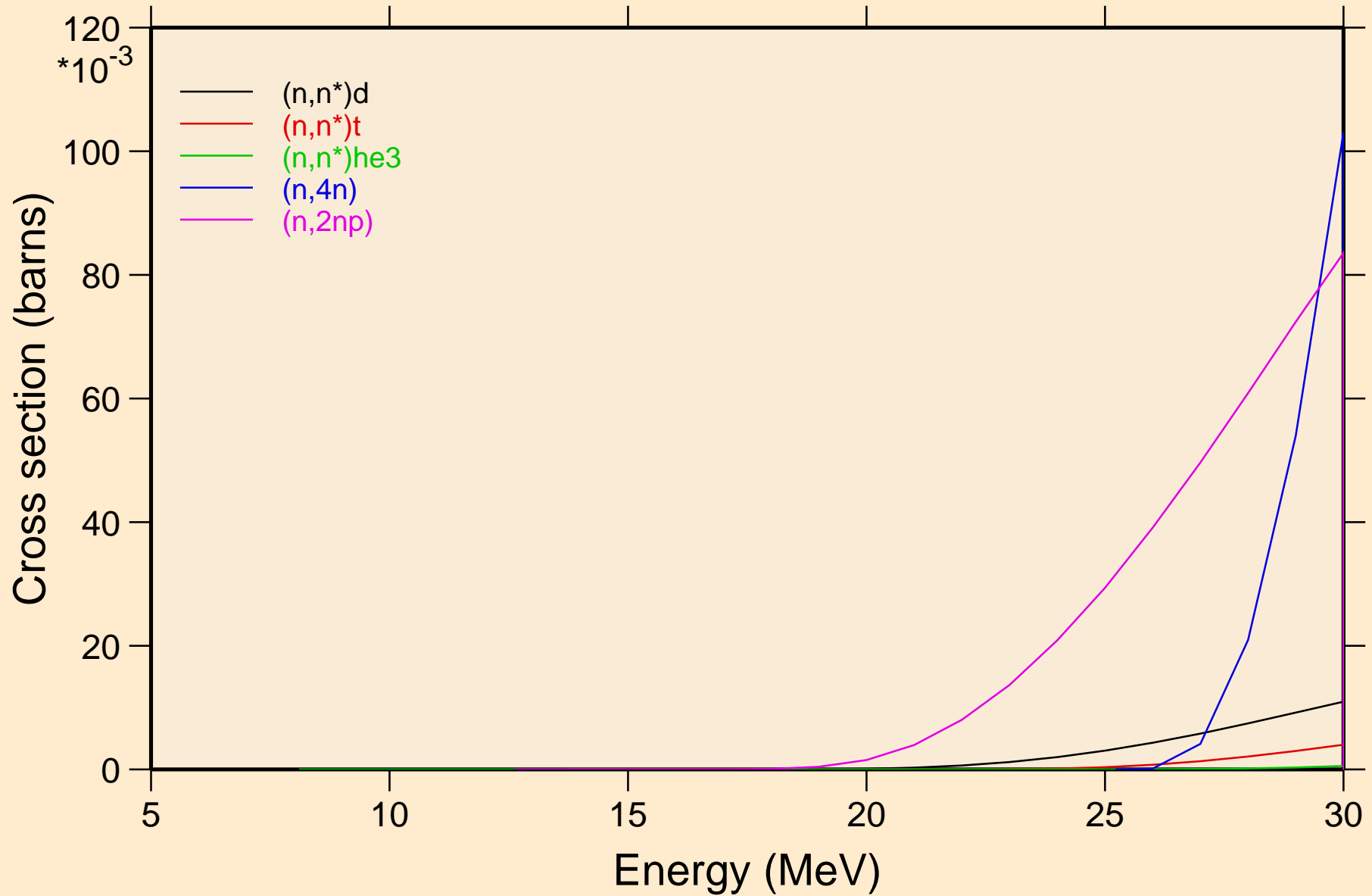
# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions



# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

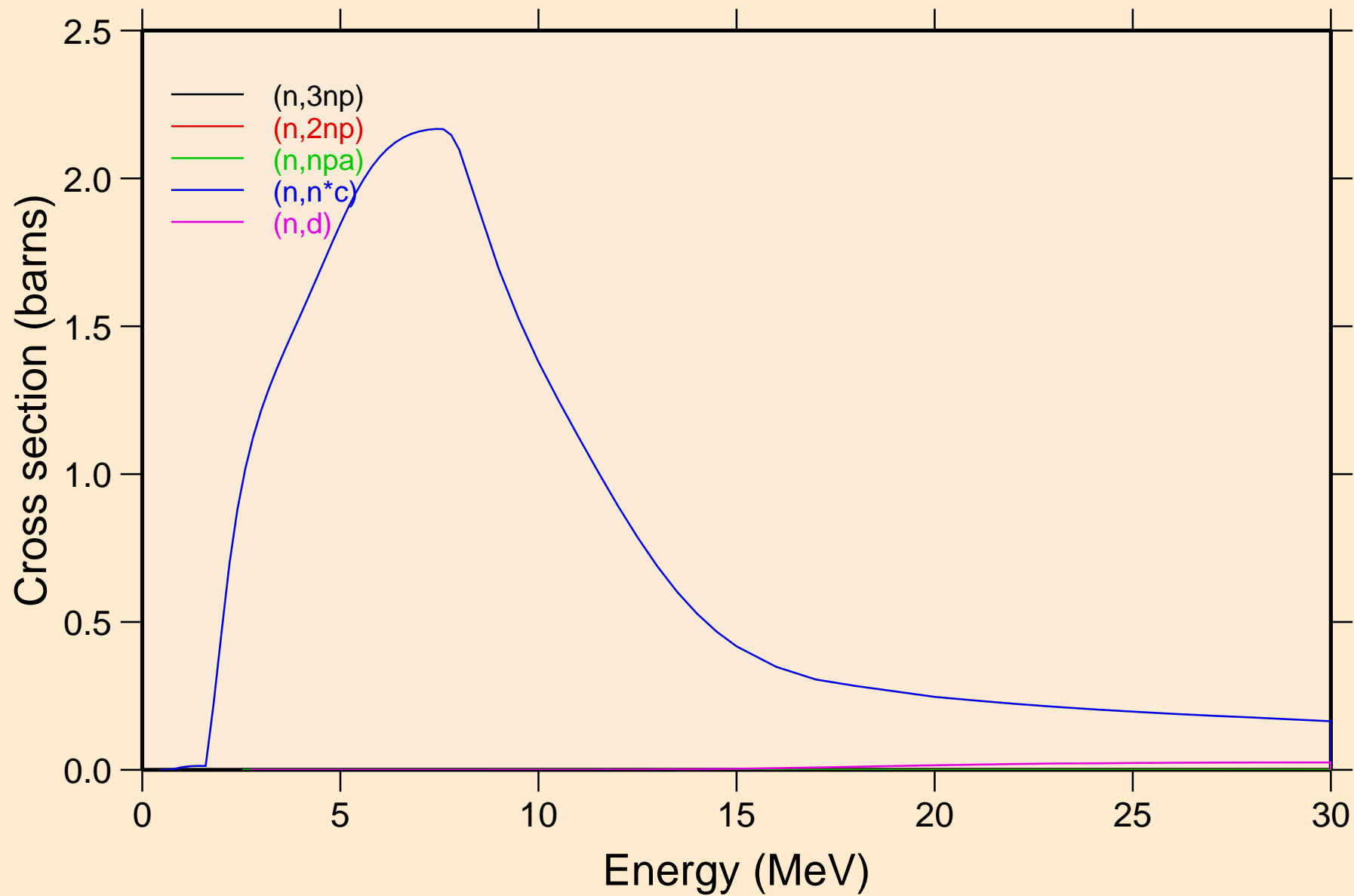
## Threshold reactions



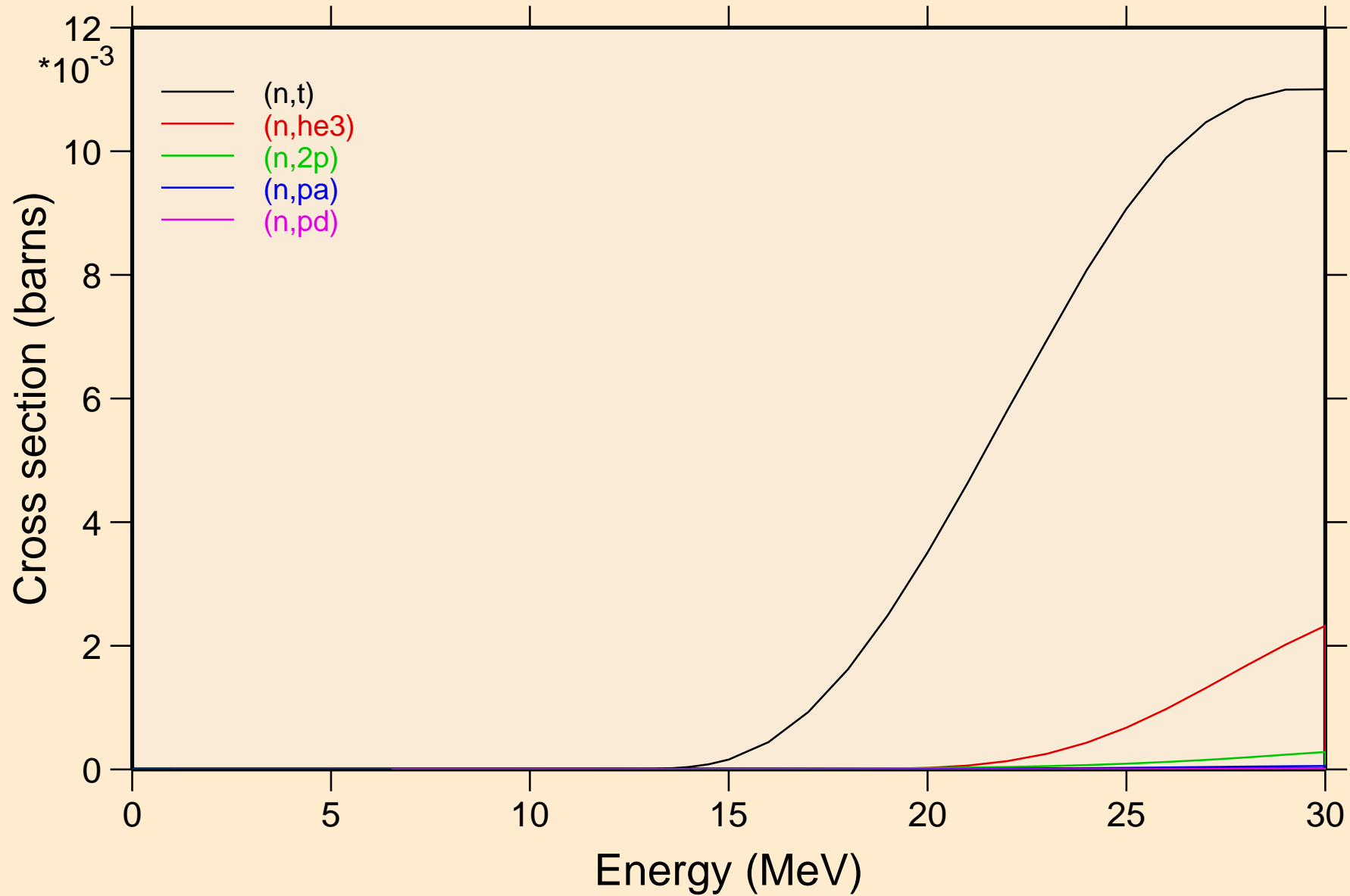


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

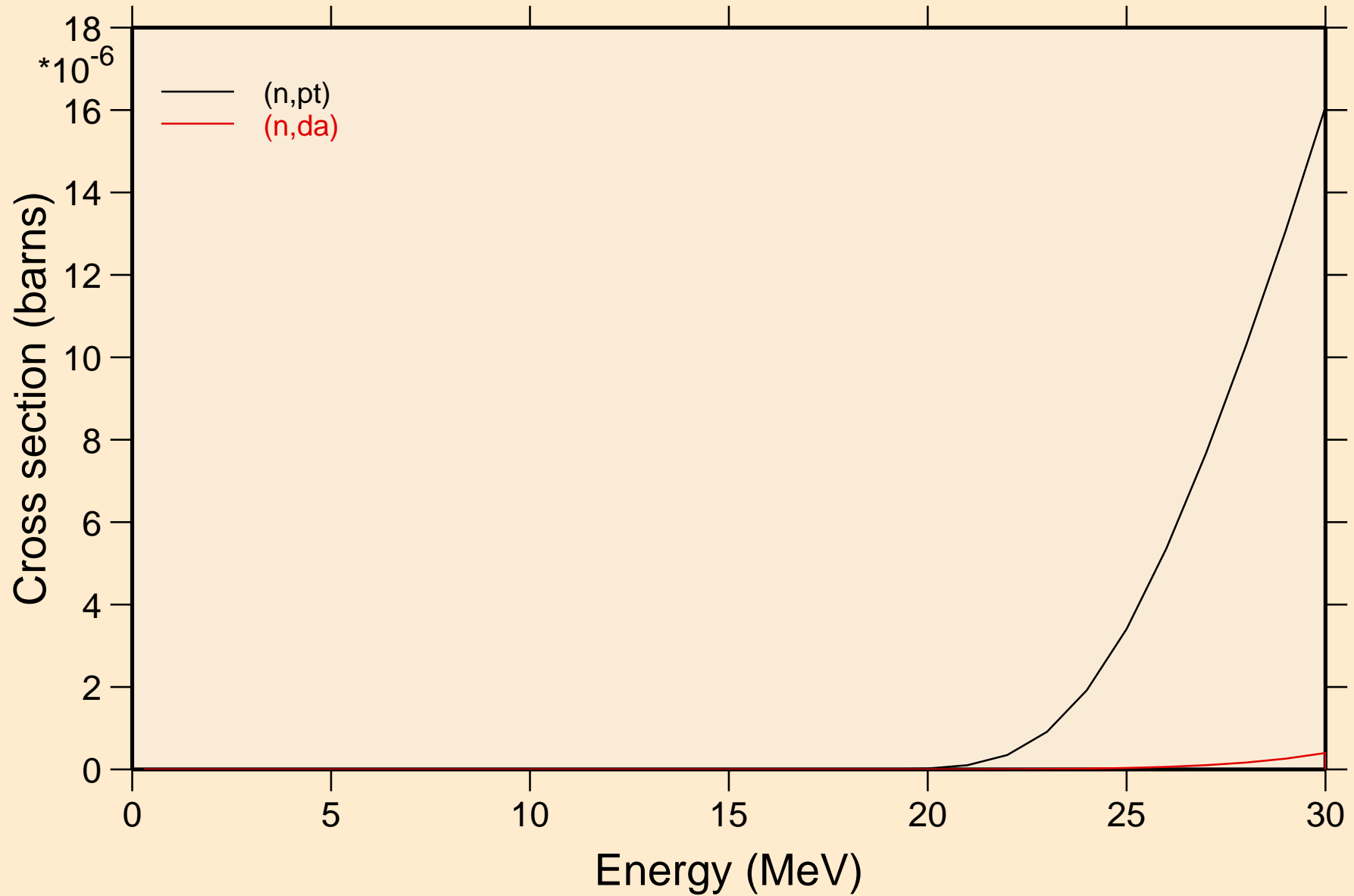
## Threshold reactions



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

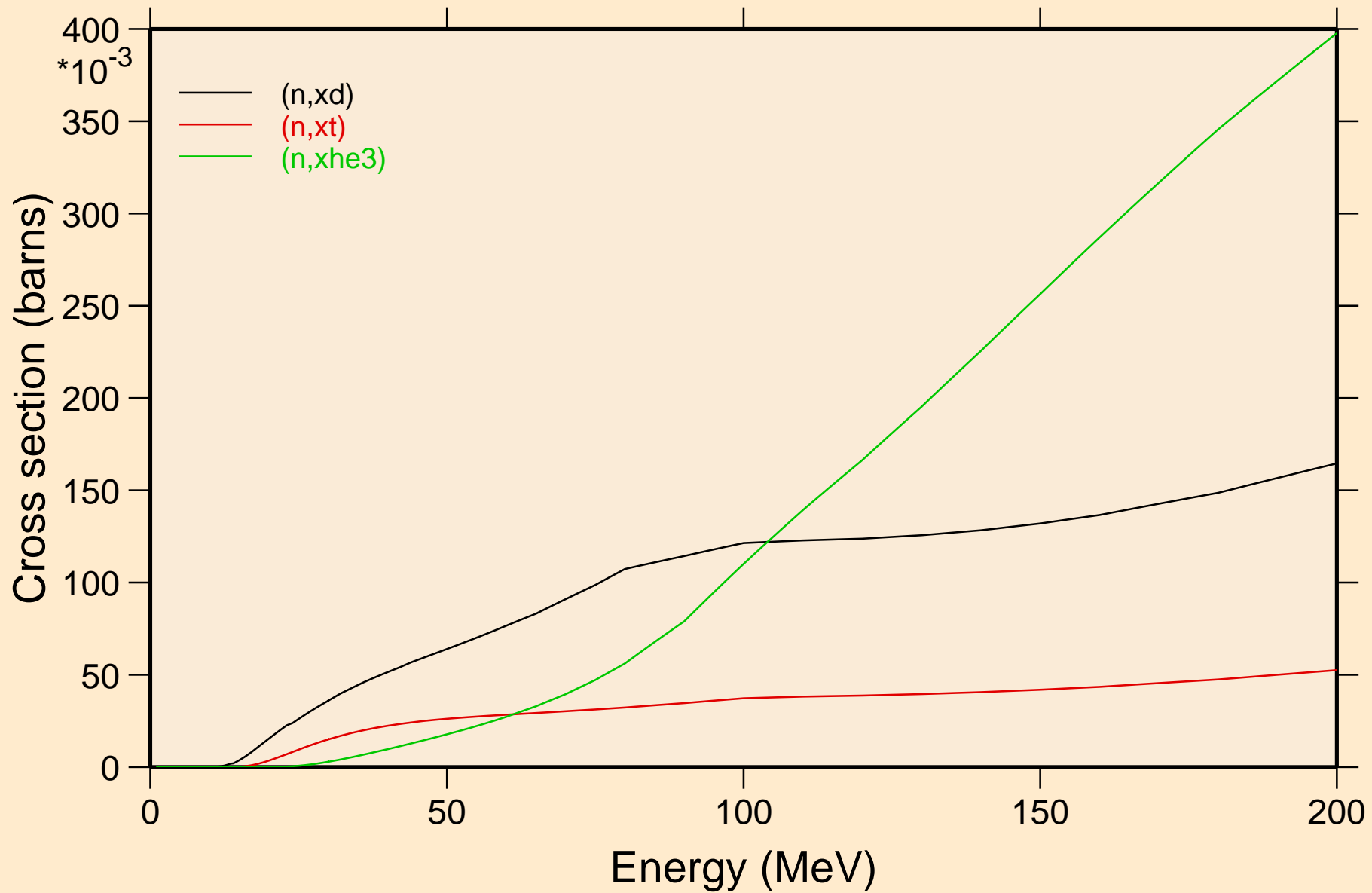


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

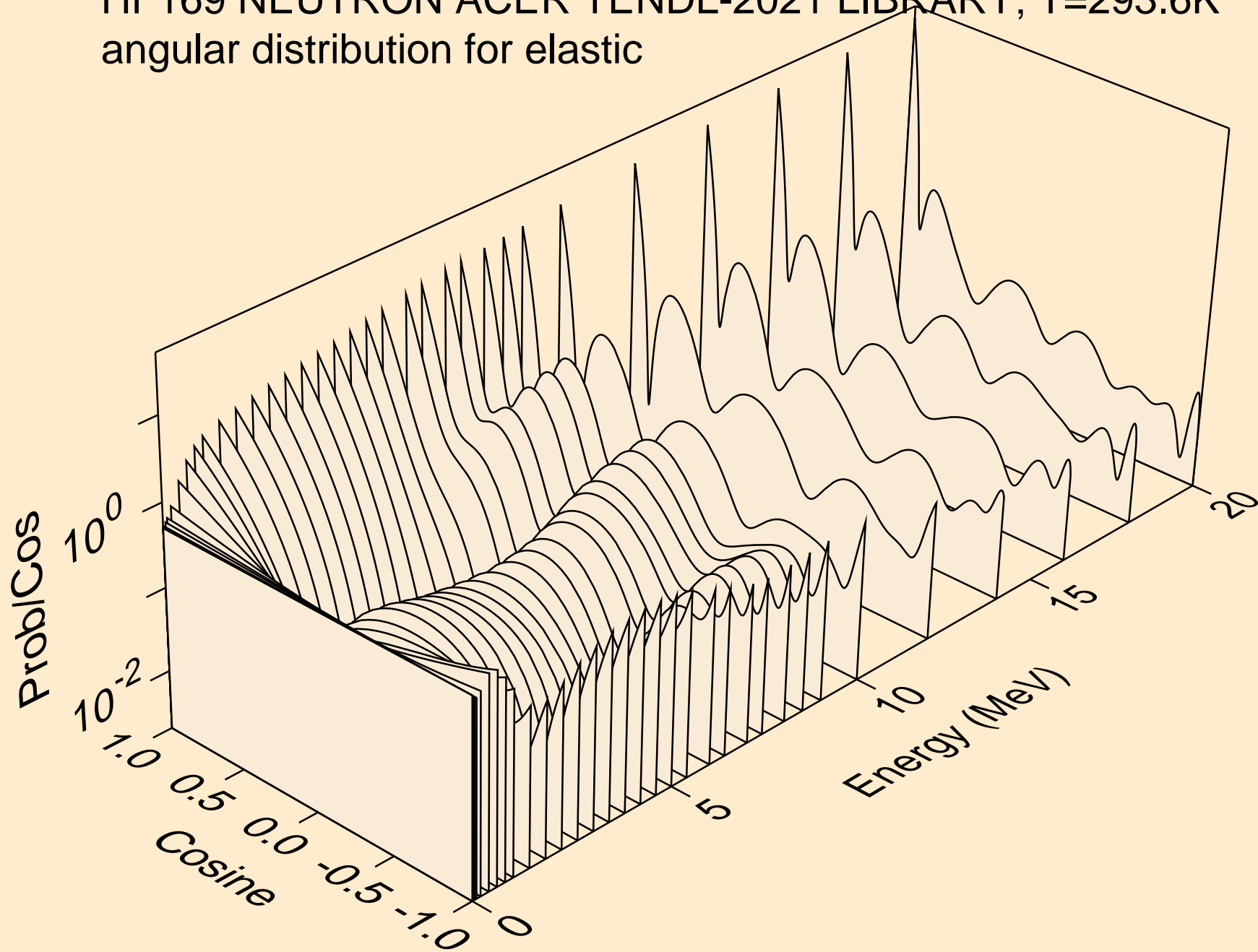


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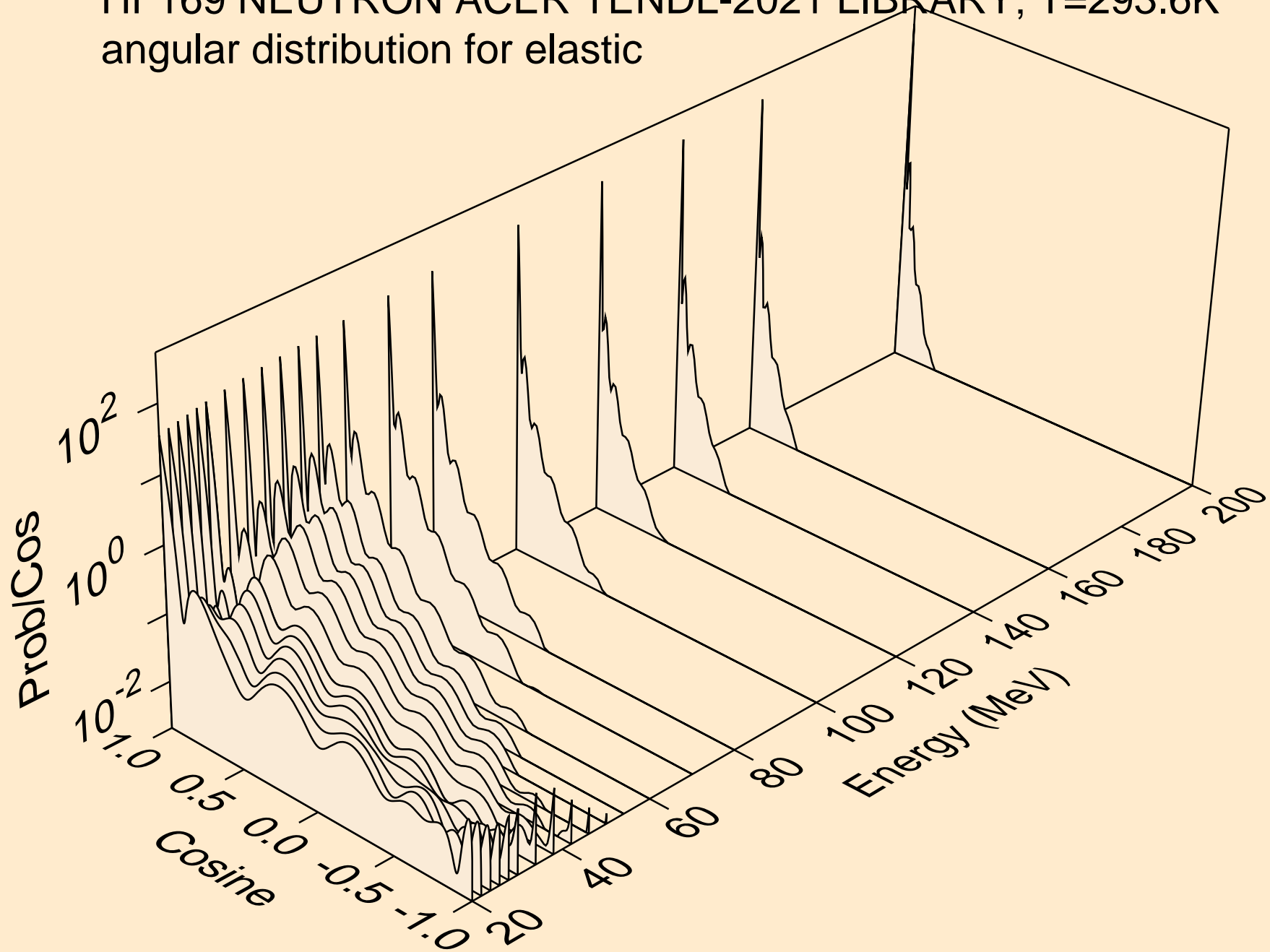
## Threshold reactions



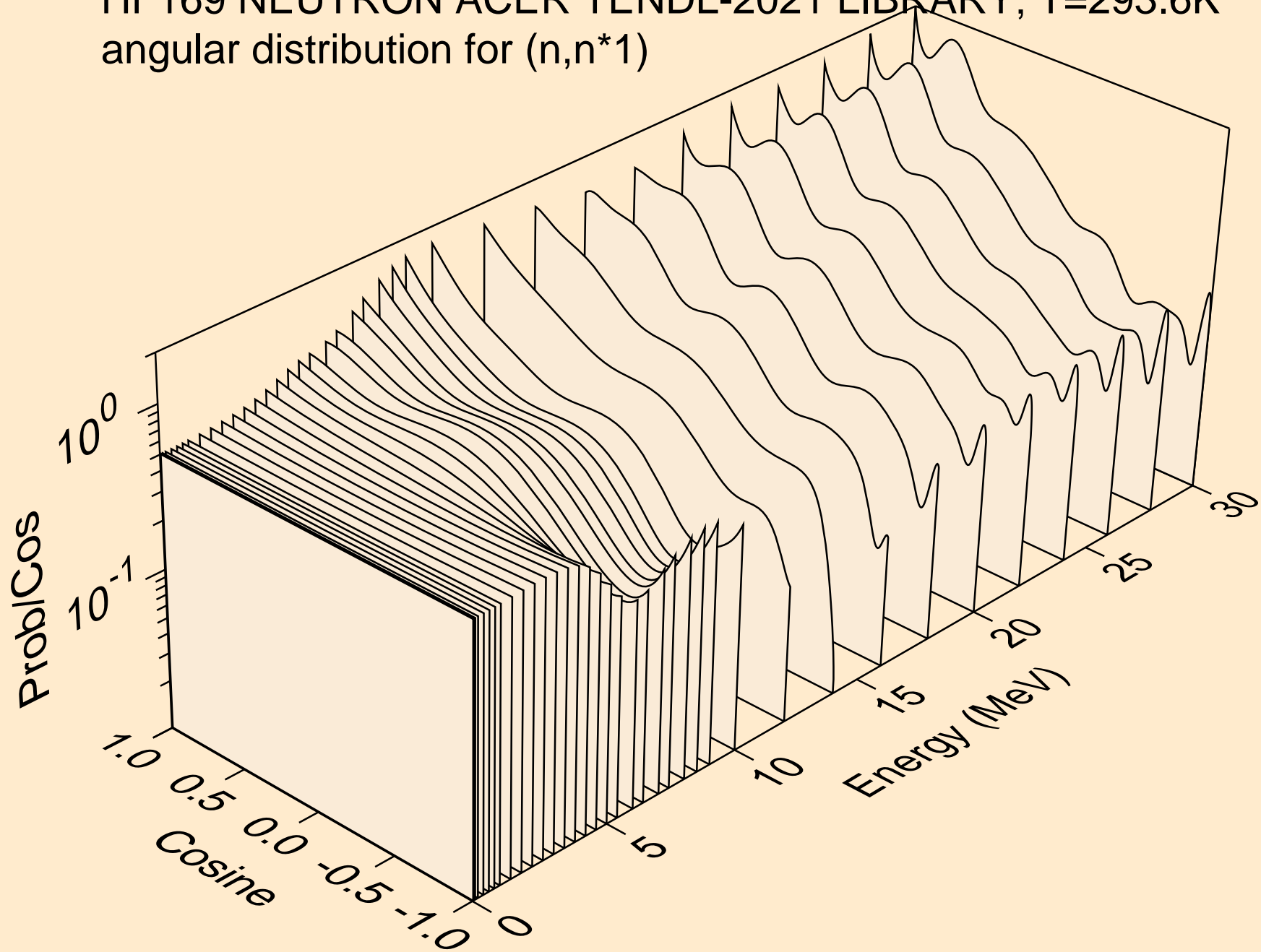
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



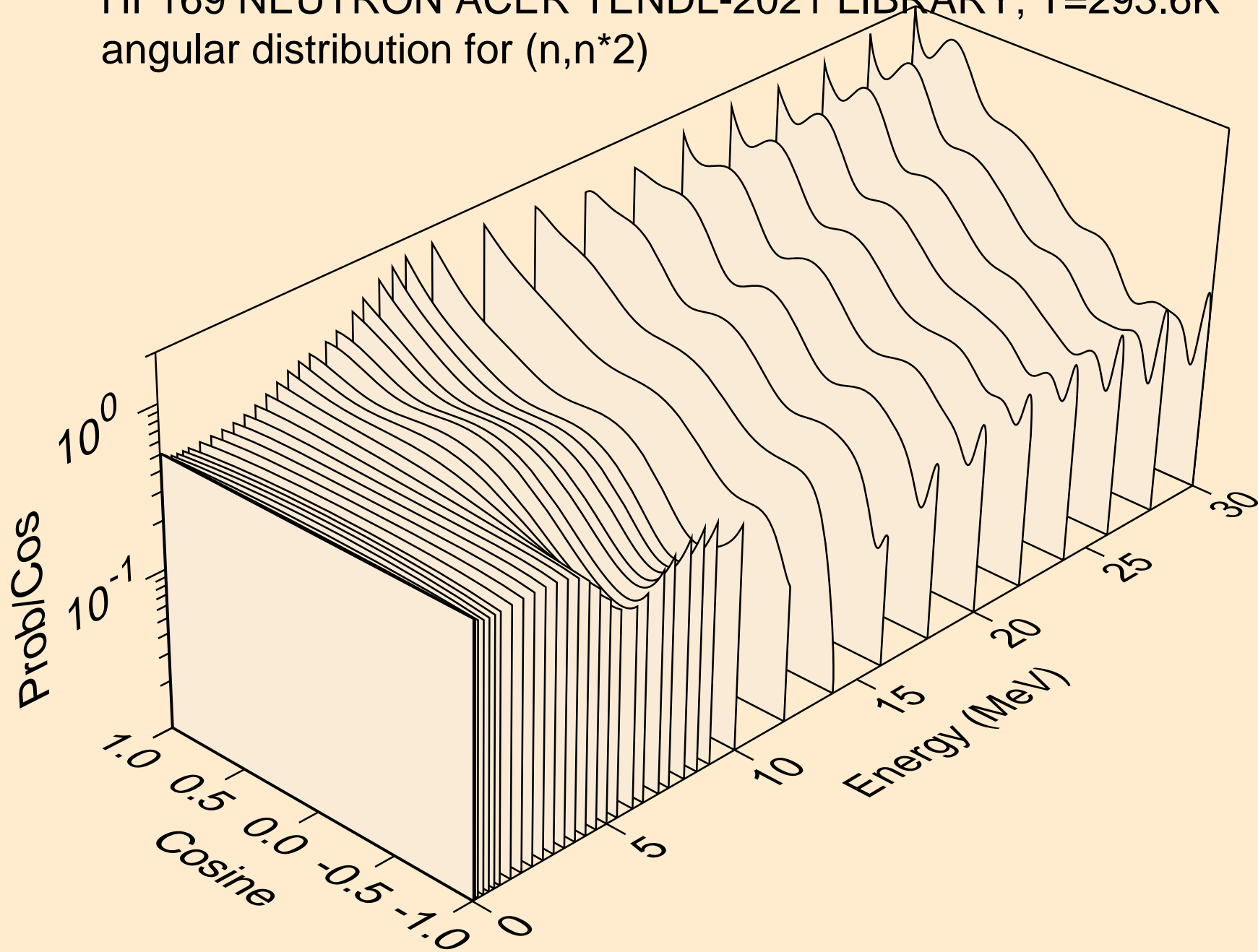
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

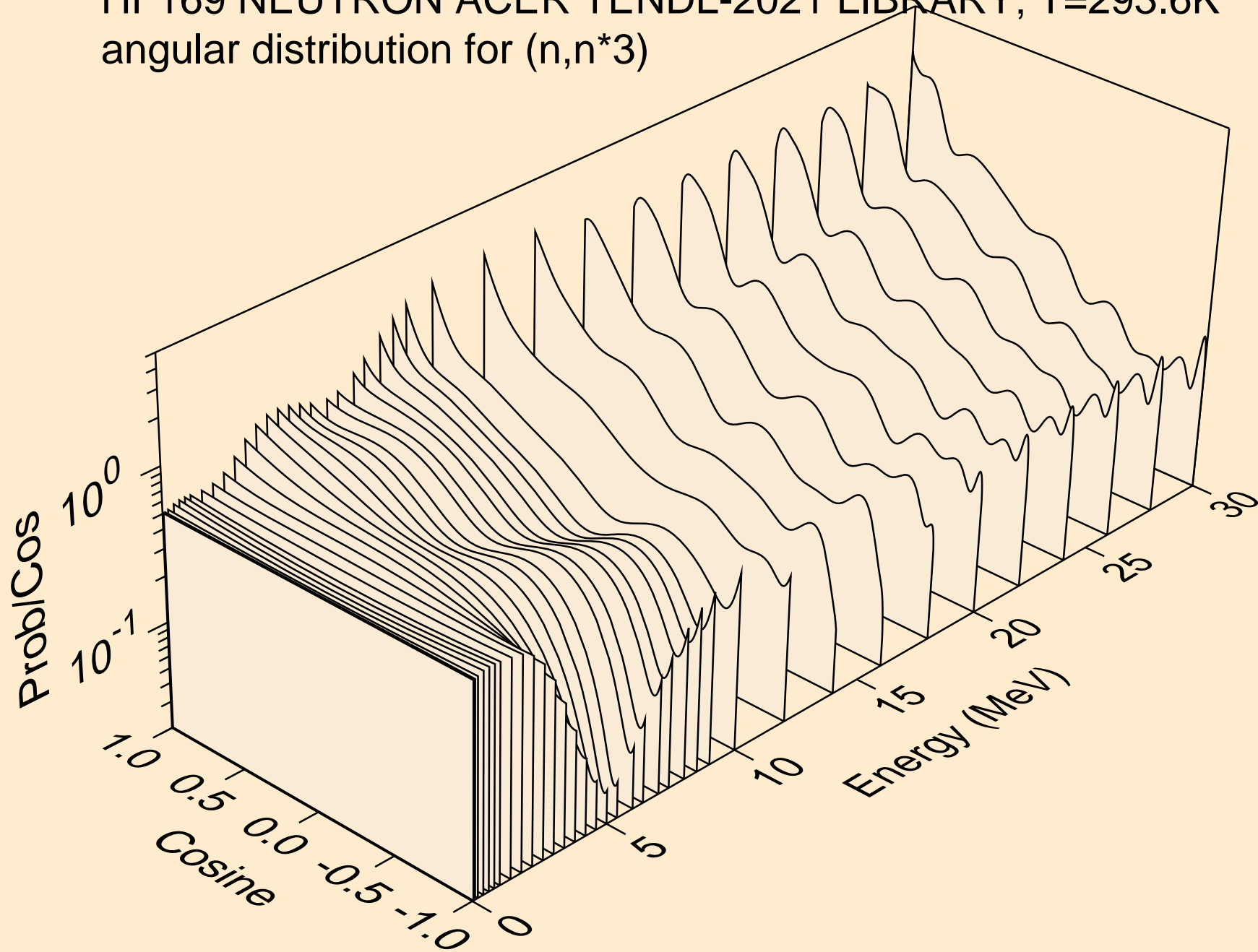


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

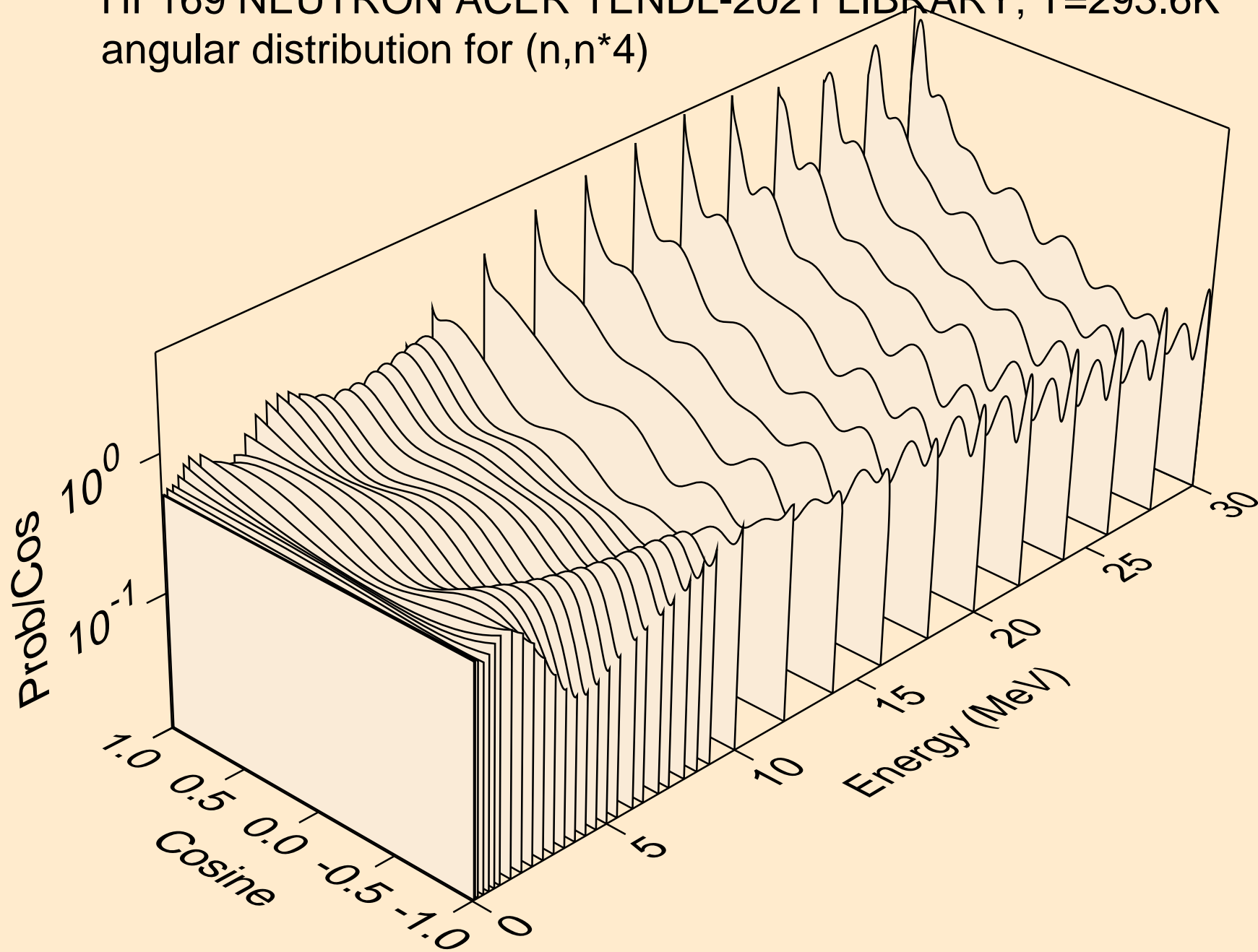




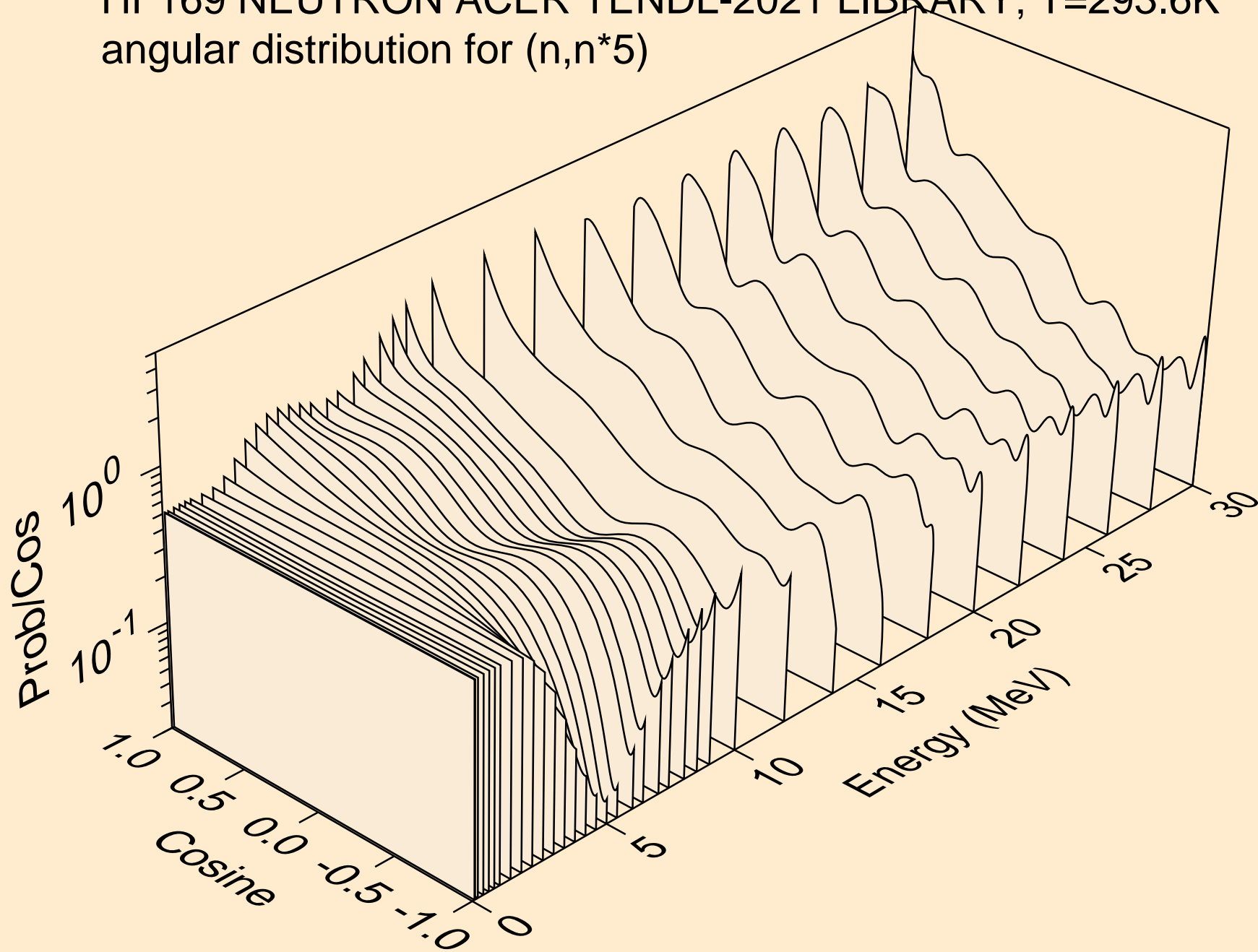
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angular distribution for (n,n\*3)



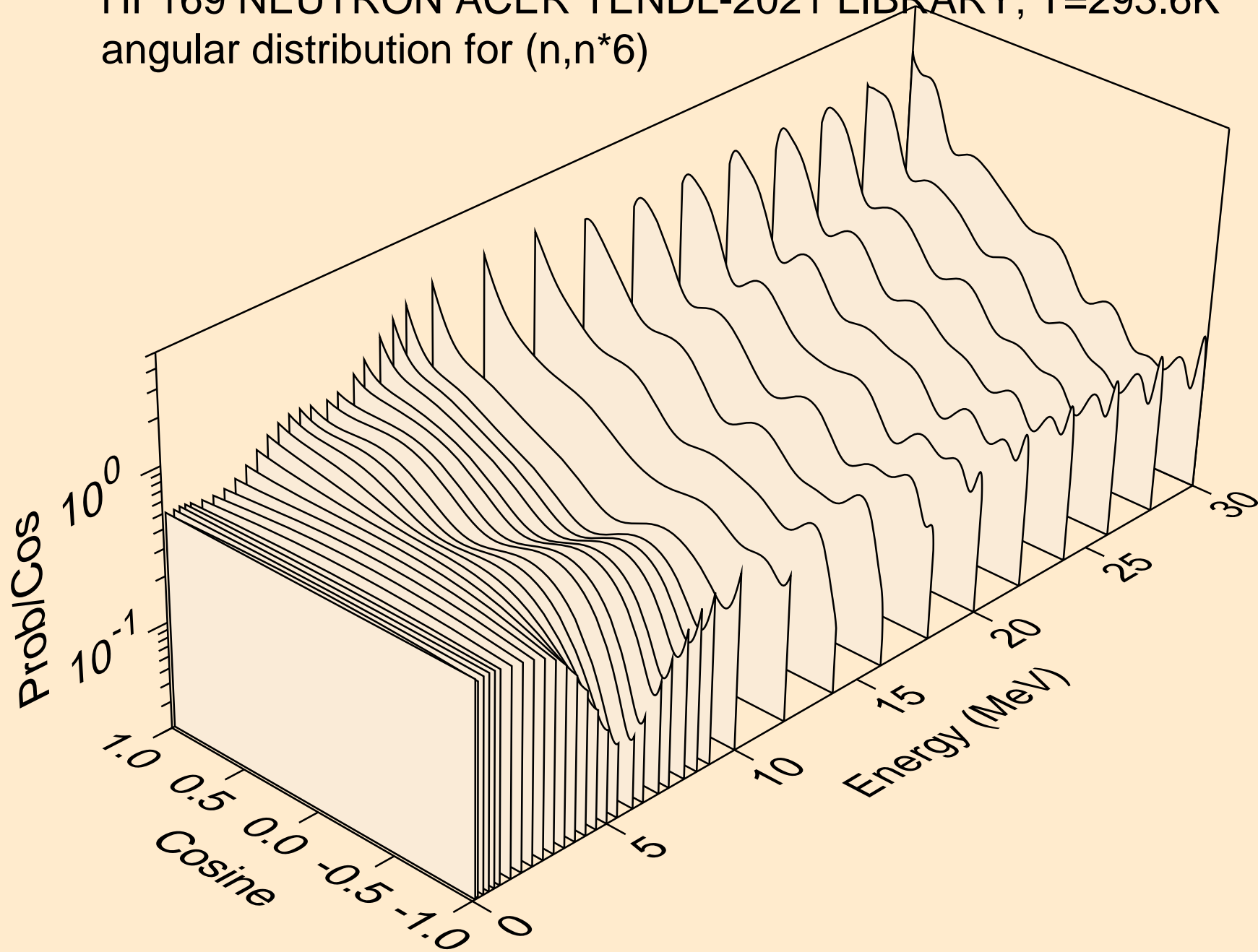
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angular distribution for (n,n\*4)



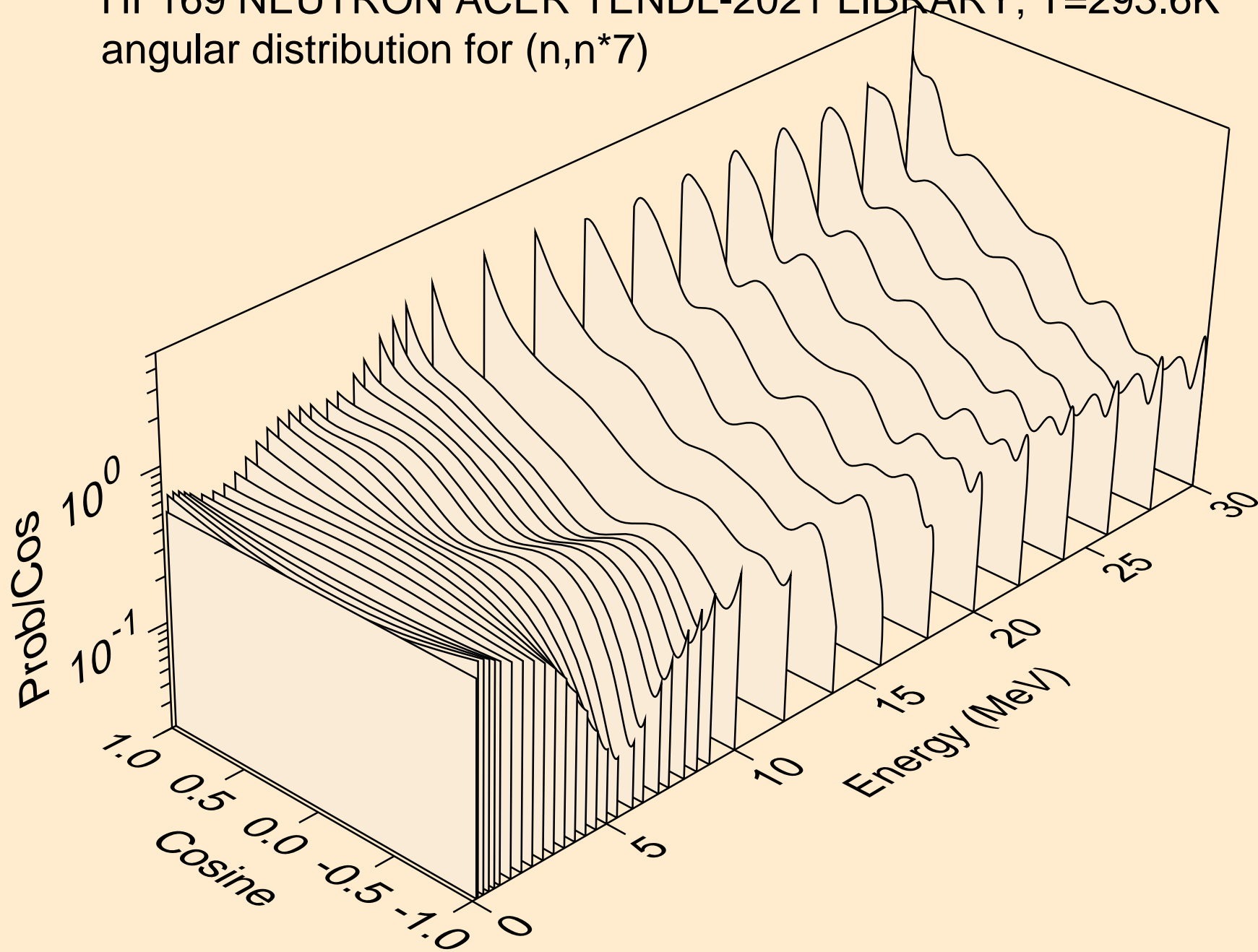
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angular distribution for (n,n\*5)



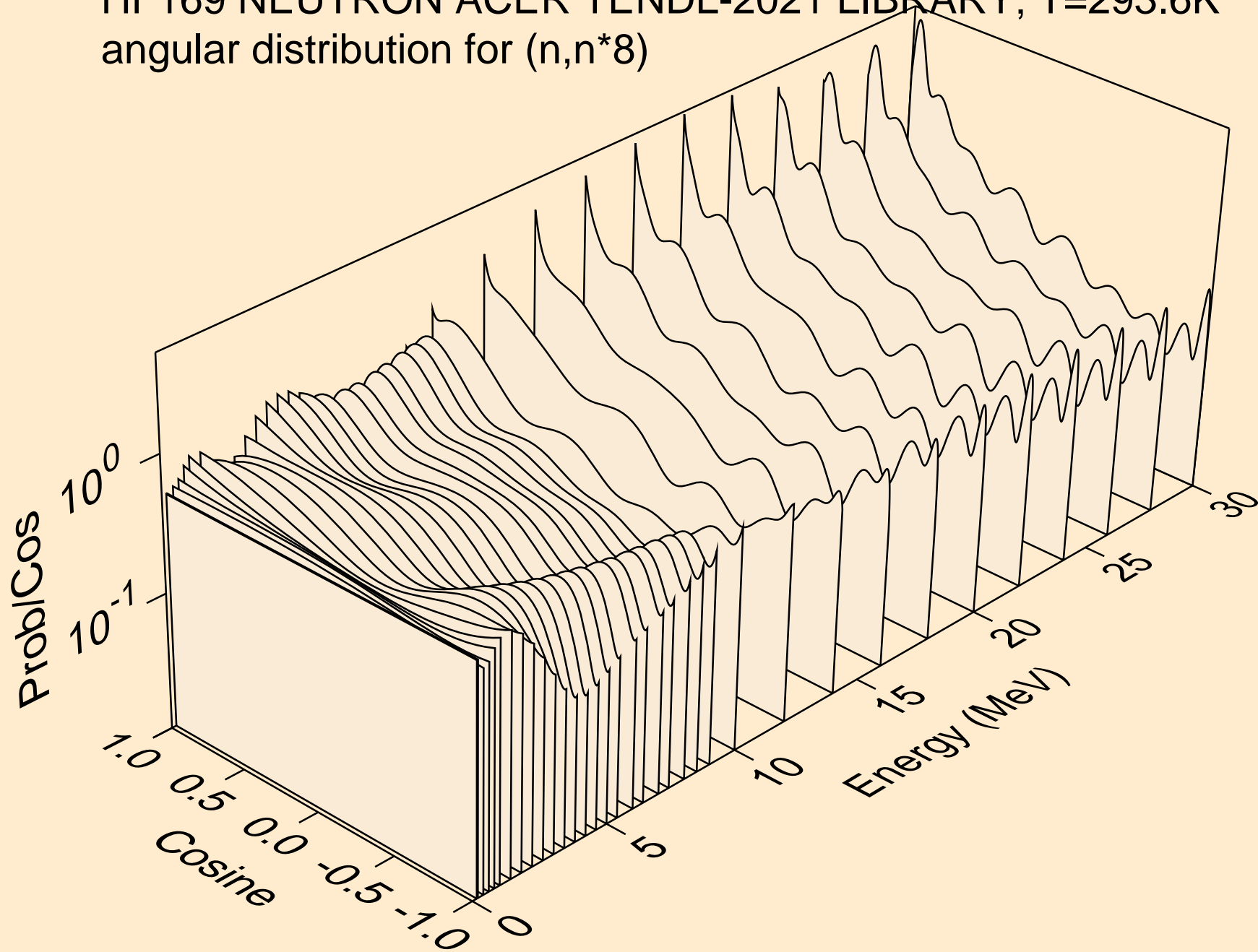
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angular distribution for (n,n\*6)



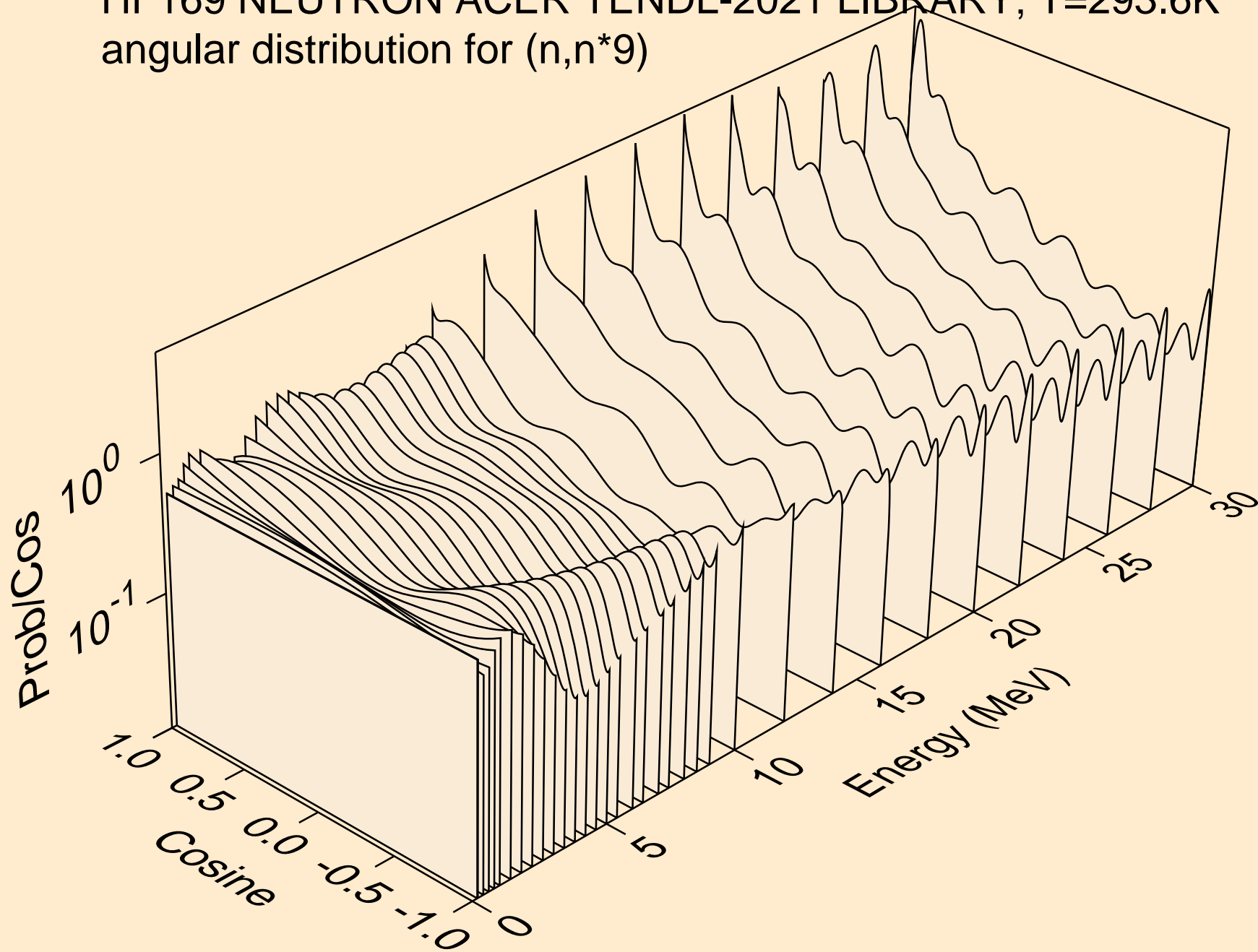
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

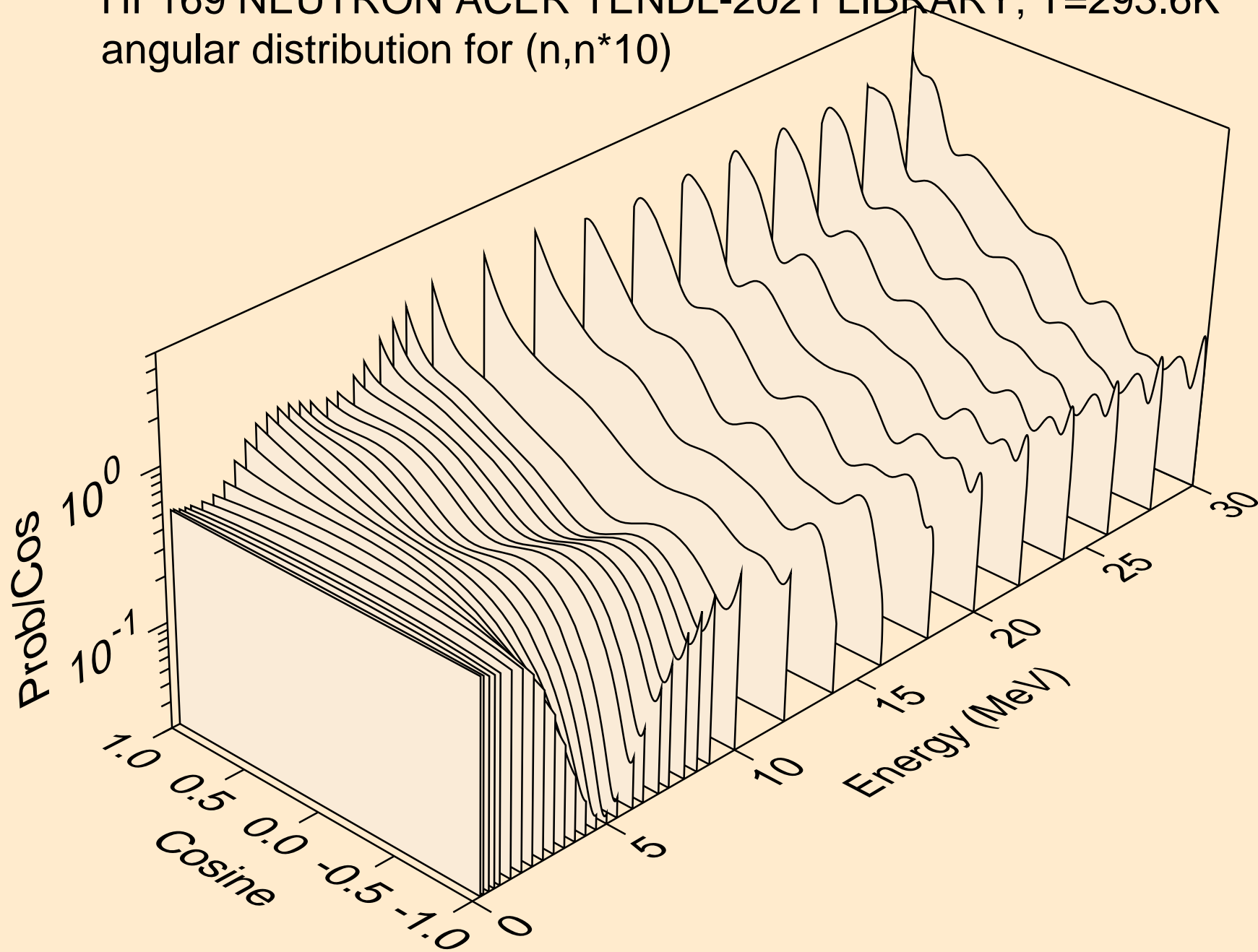


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angular distribution for (n,n\*9)



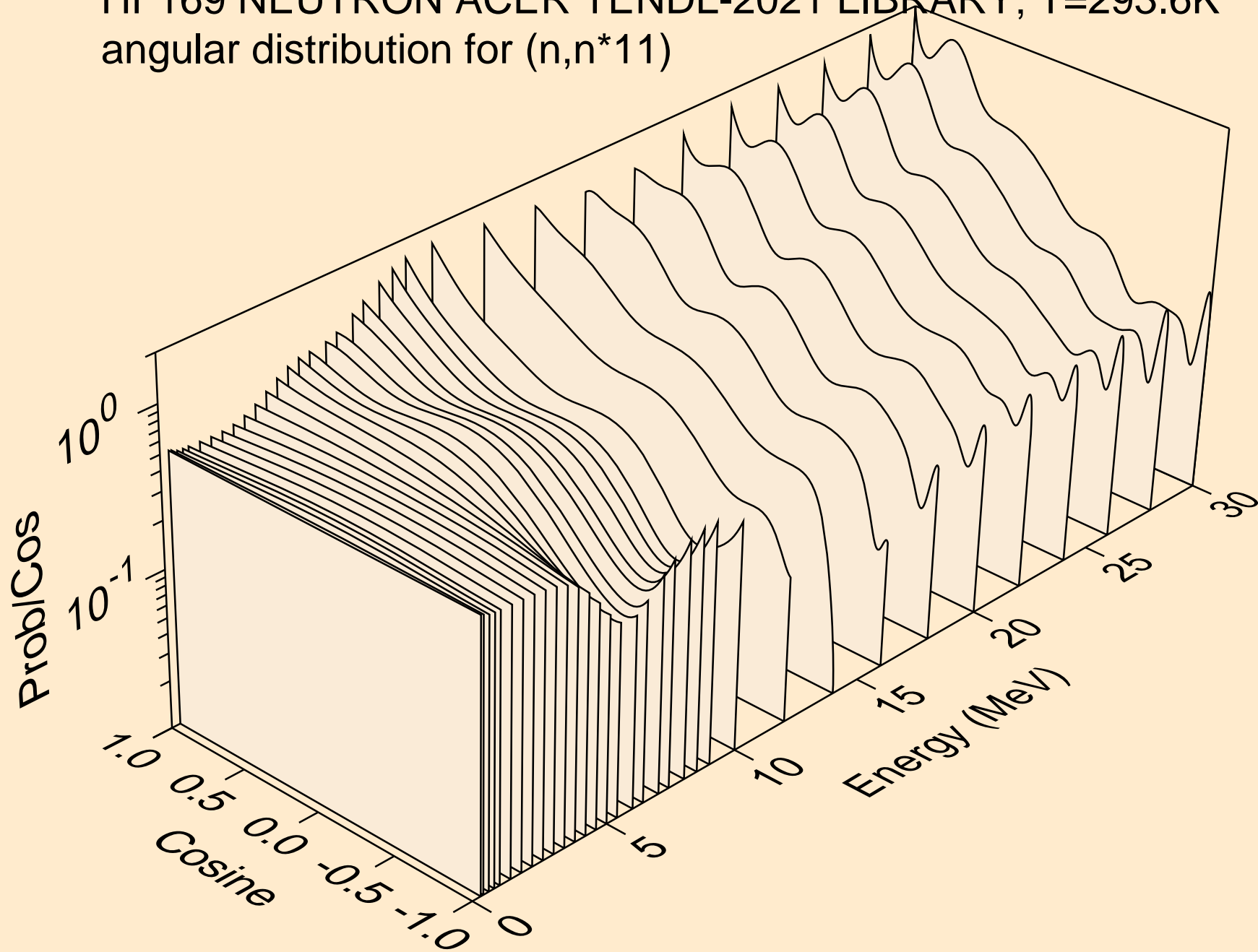


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angular distribution for (n,n\*10)

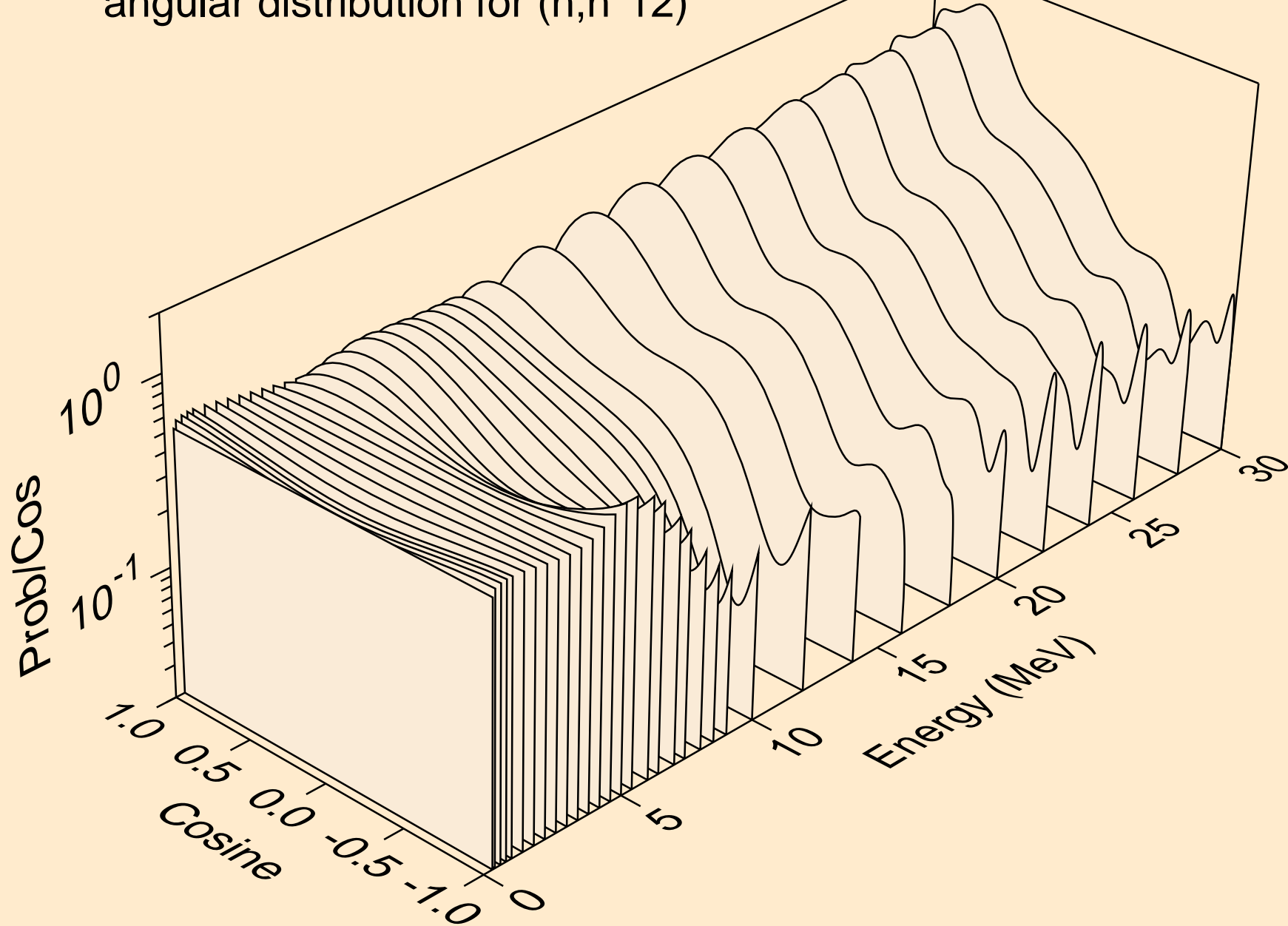




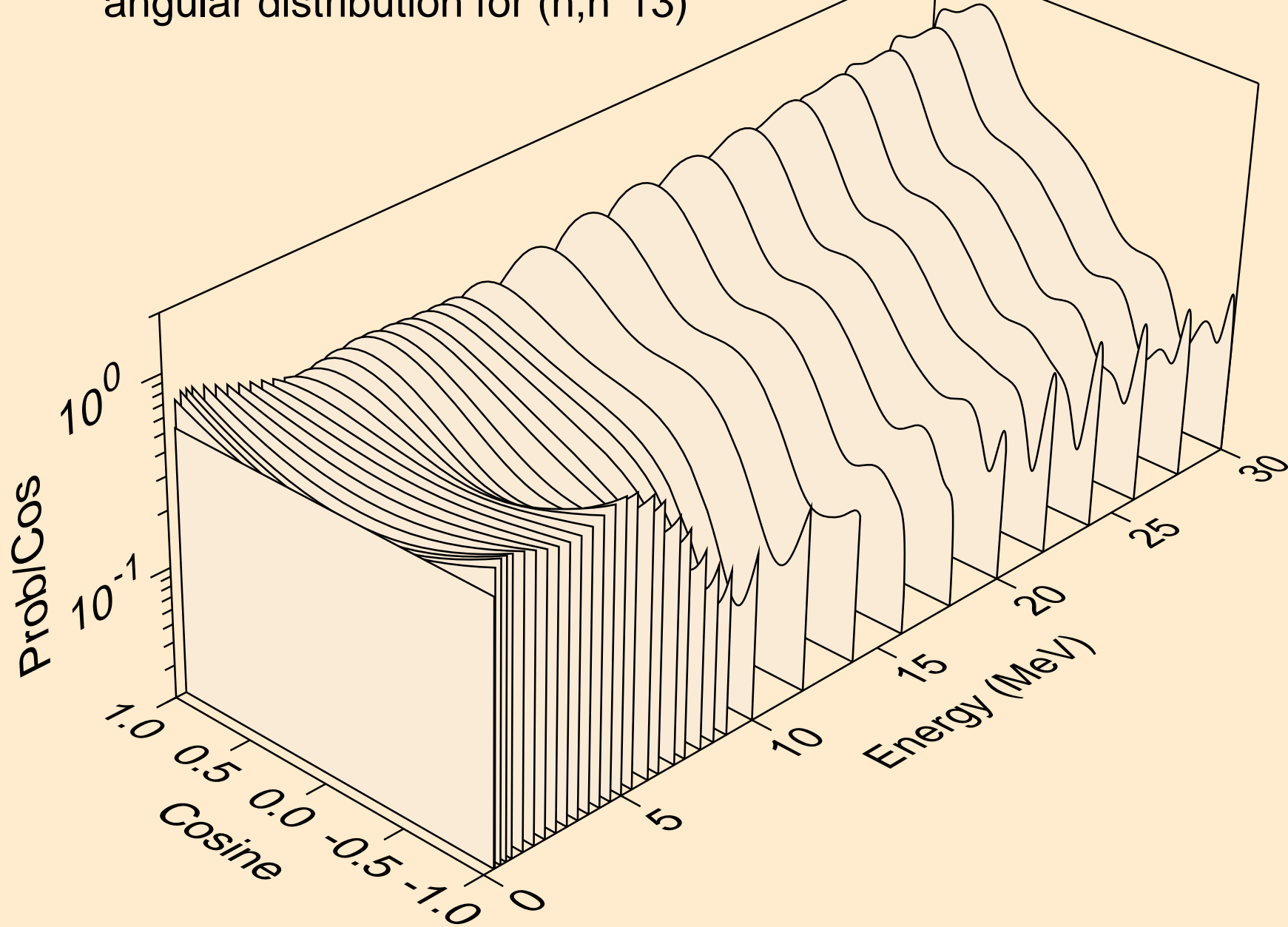
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angular distribution for (n,n\*11)



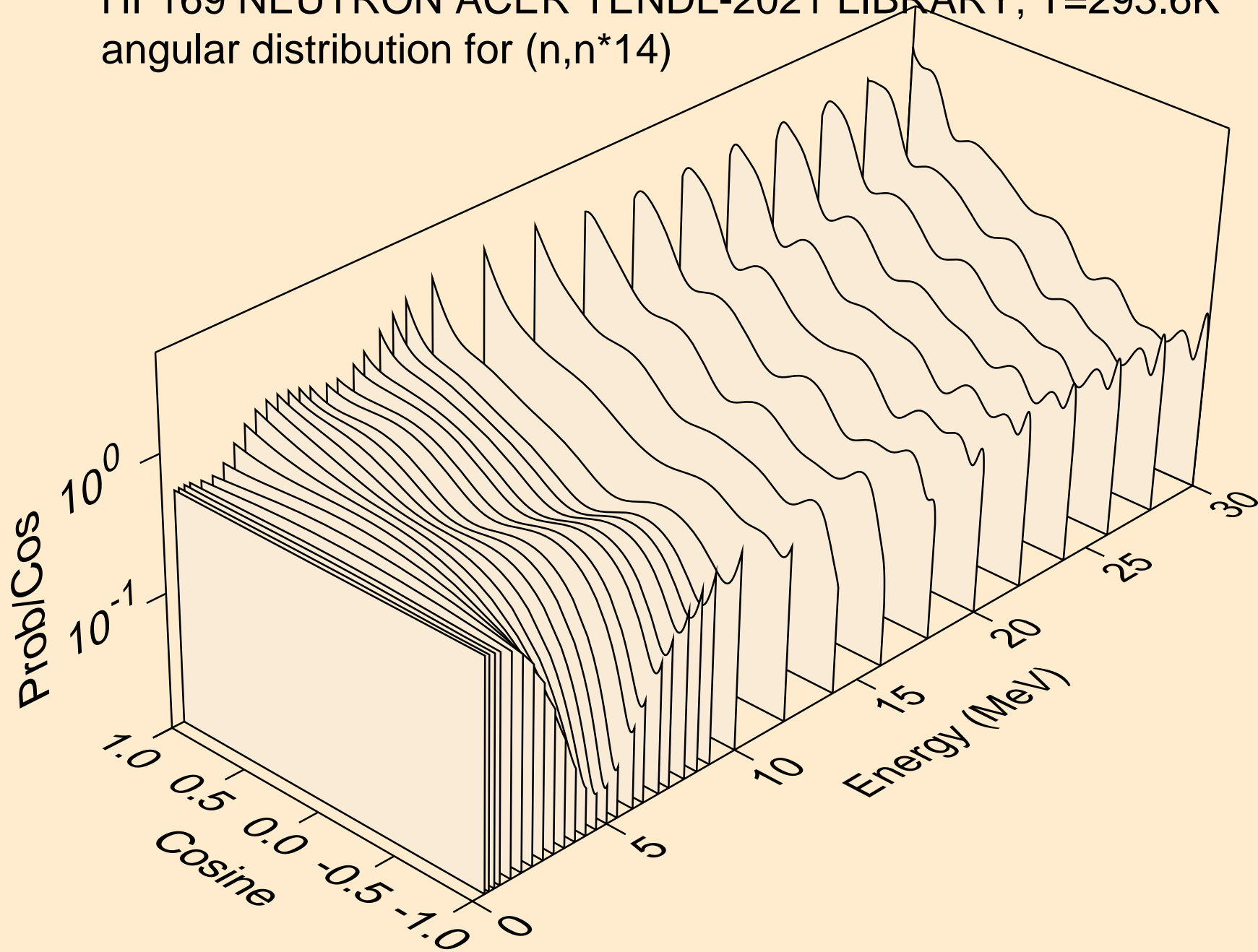
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angular distribution for (n,n\*12)



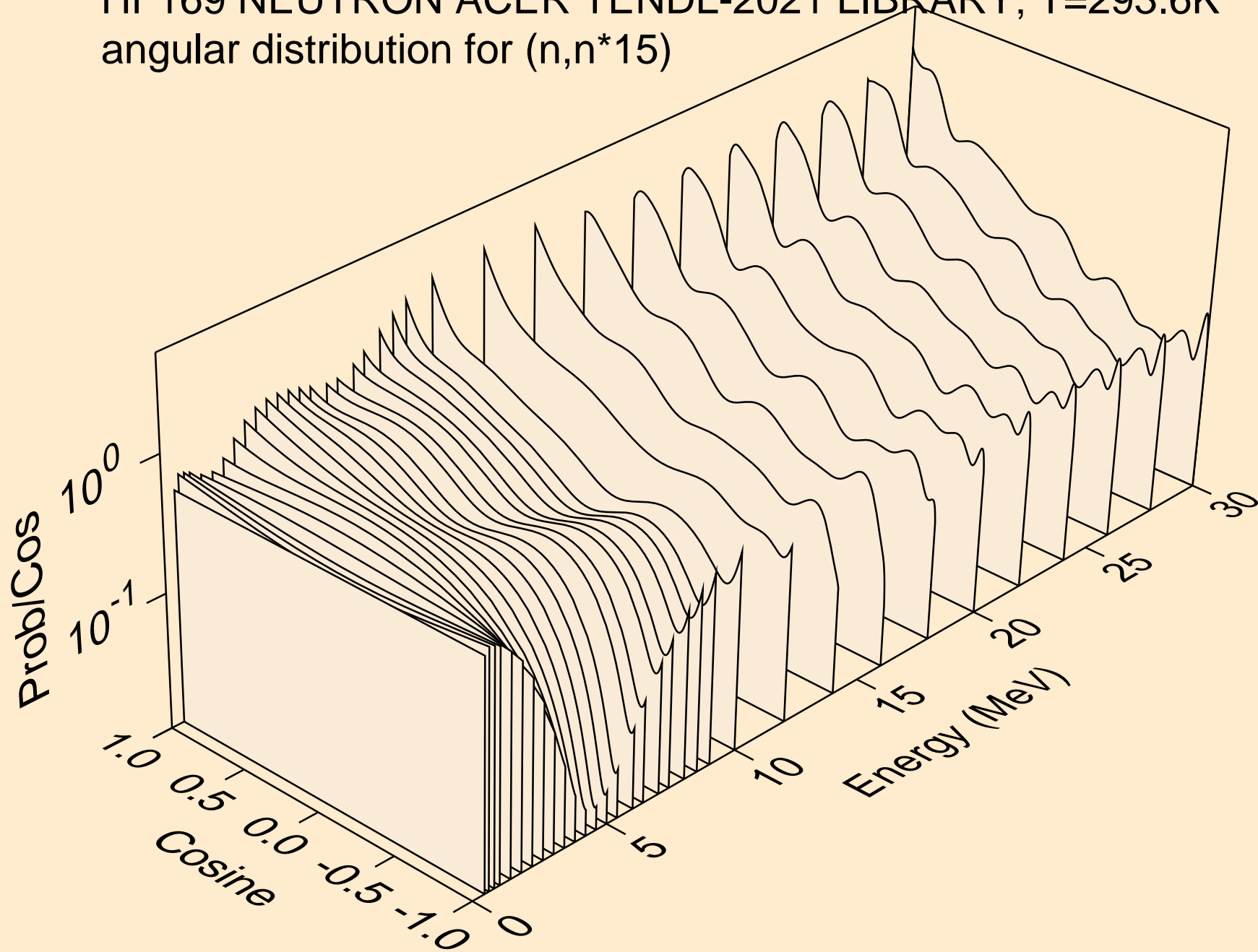
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angular distribution for (n,n\*13)



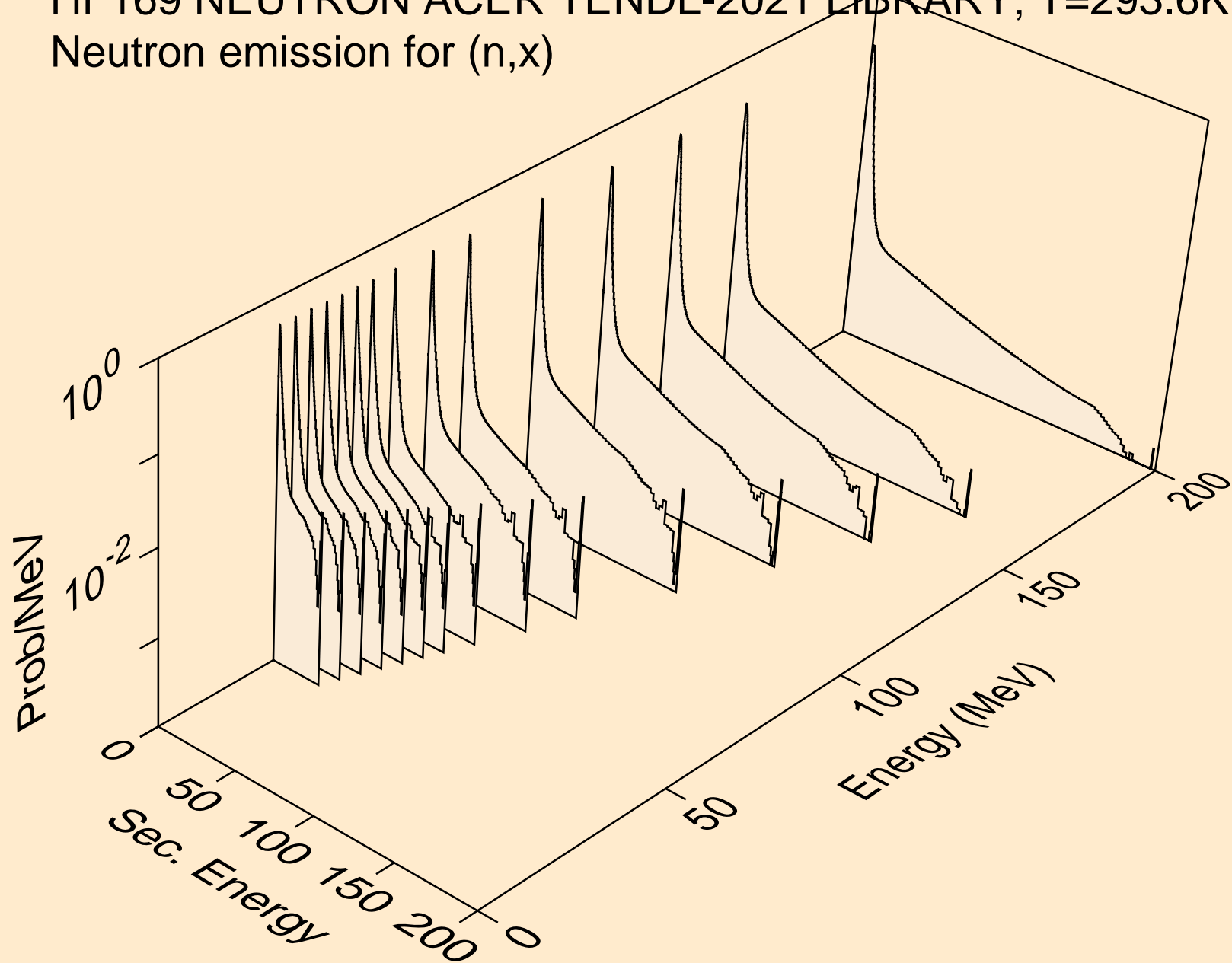
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angular distribution for (n,n\*14)



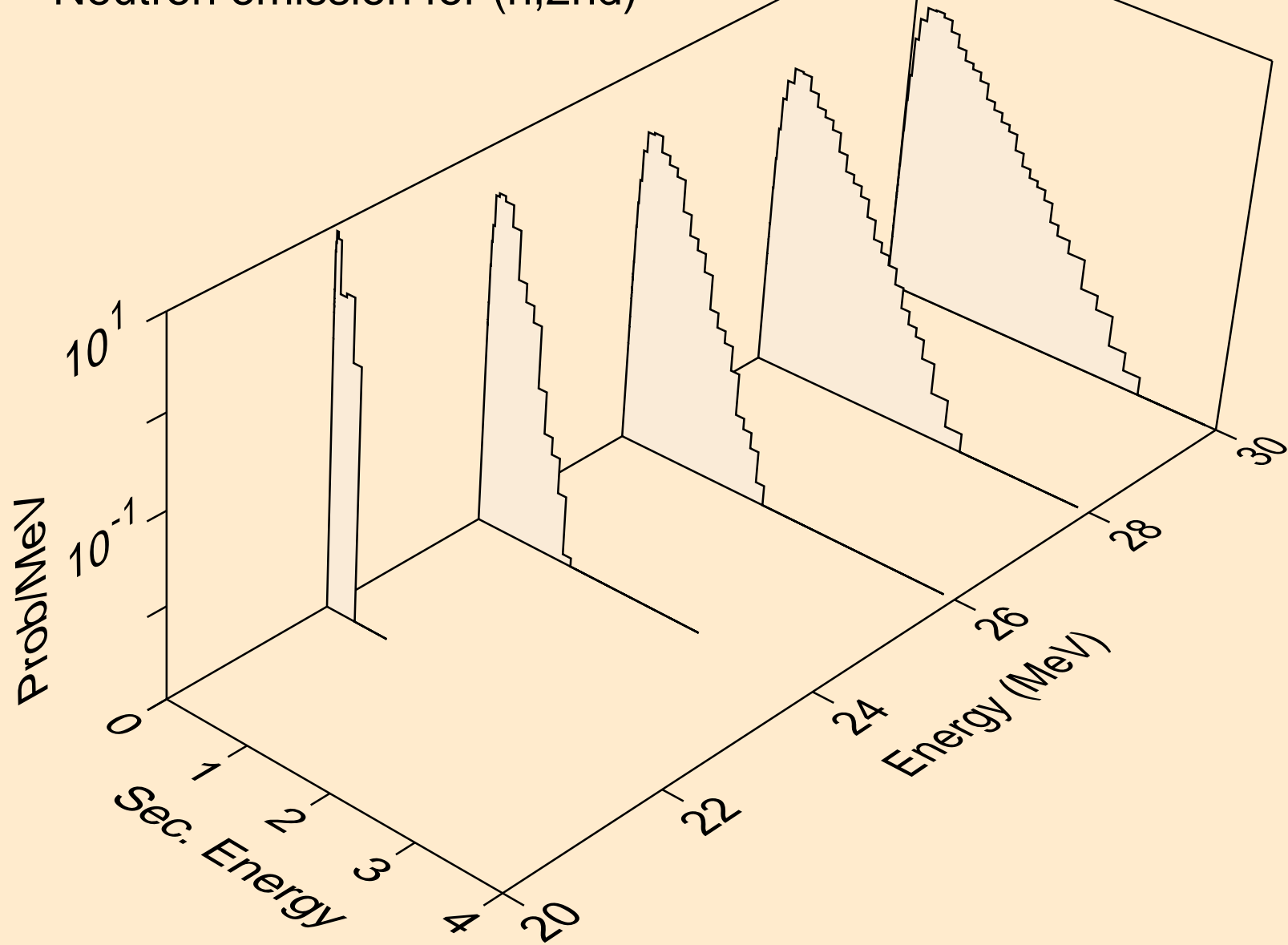
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angular distribution for (n,n\*15)



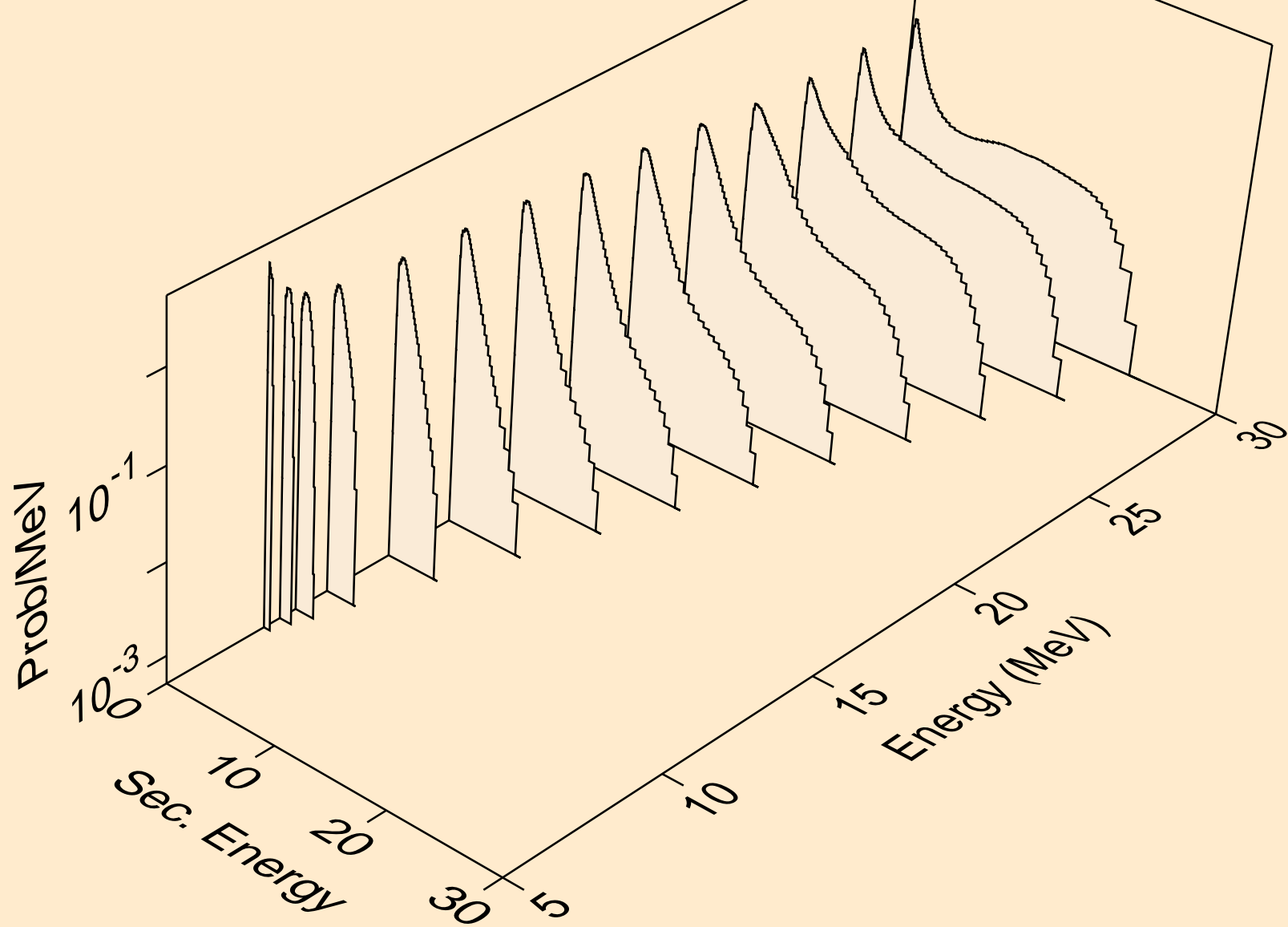
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)

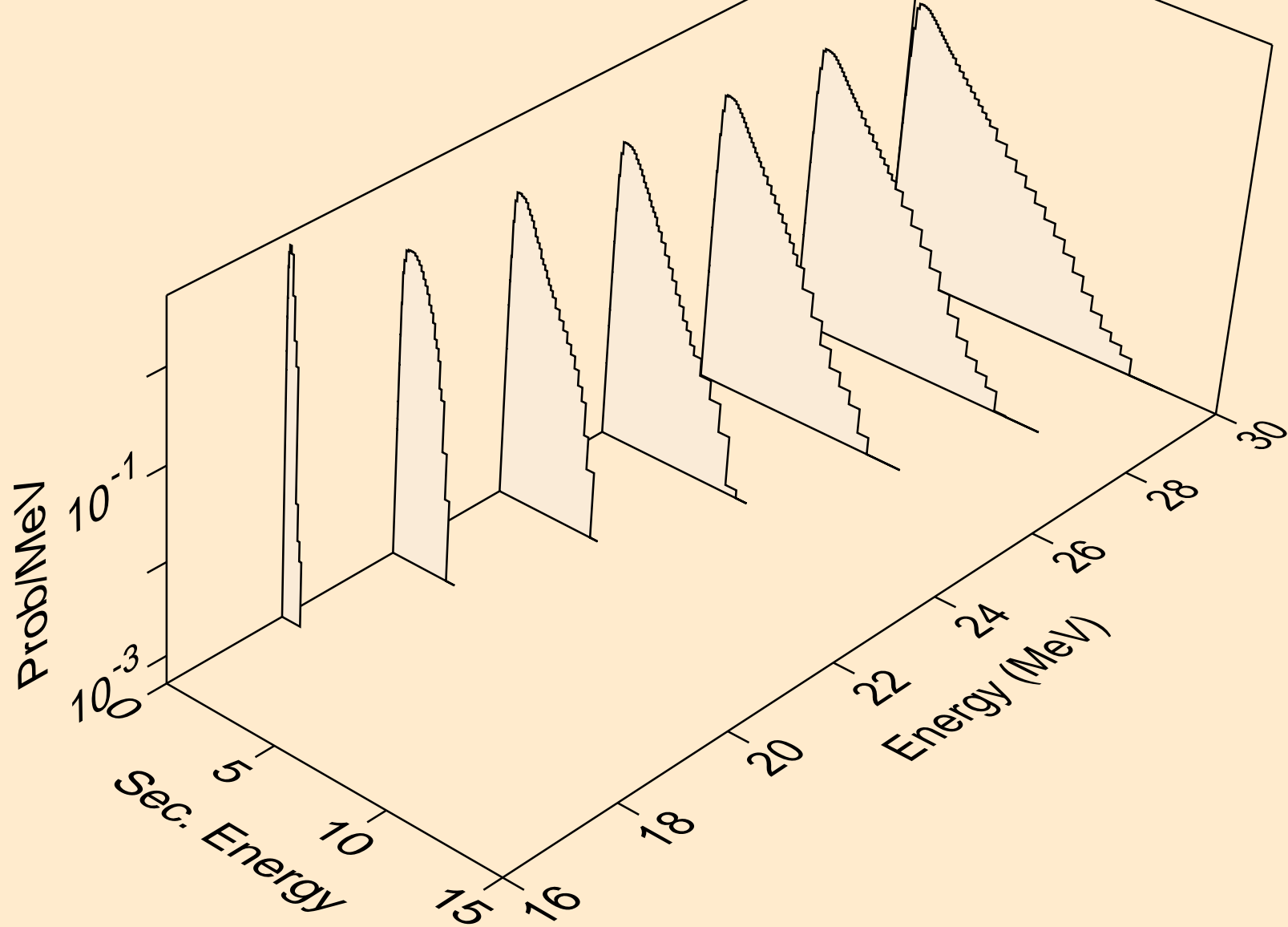


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

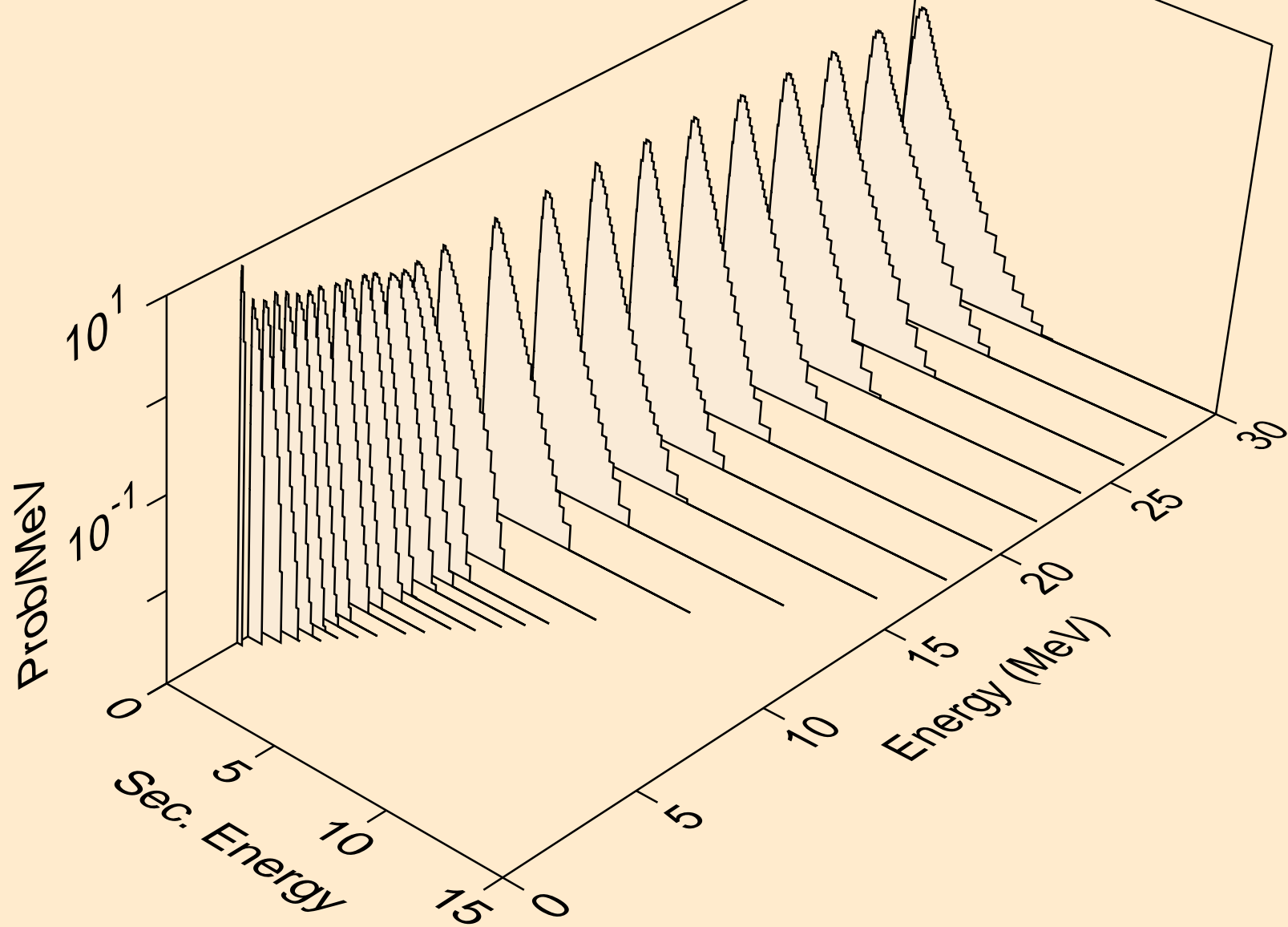




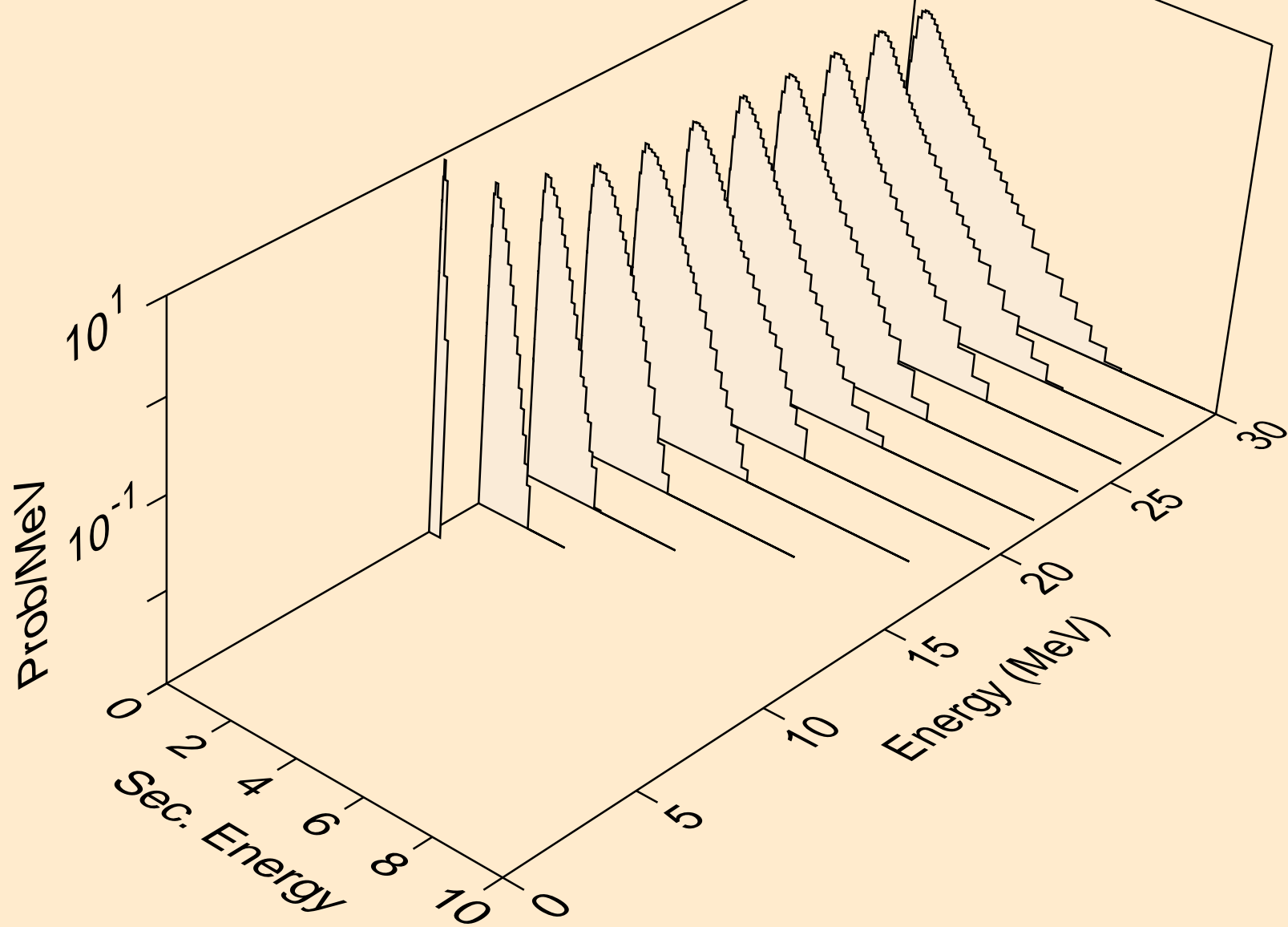
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



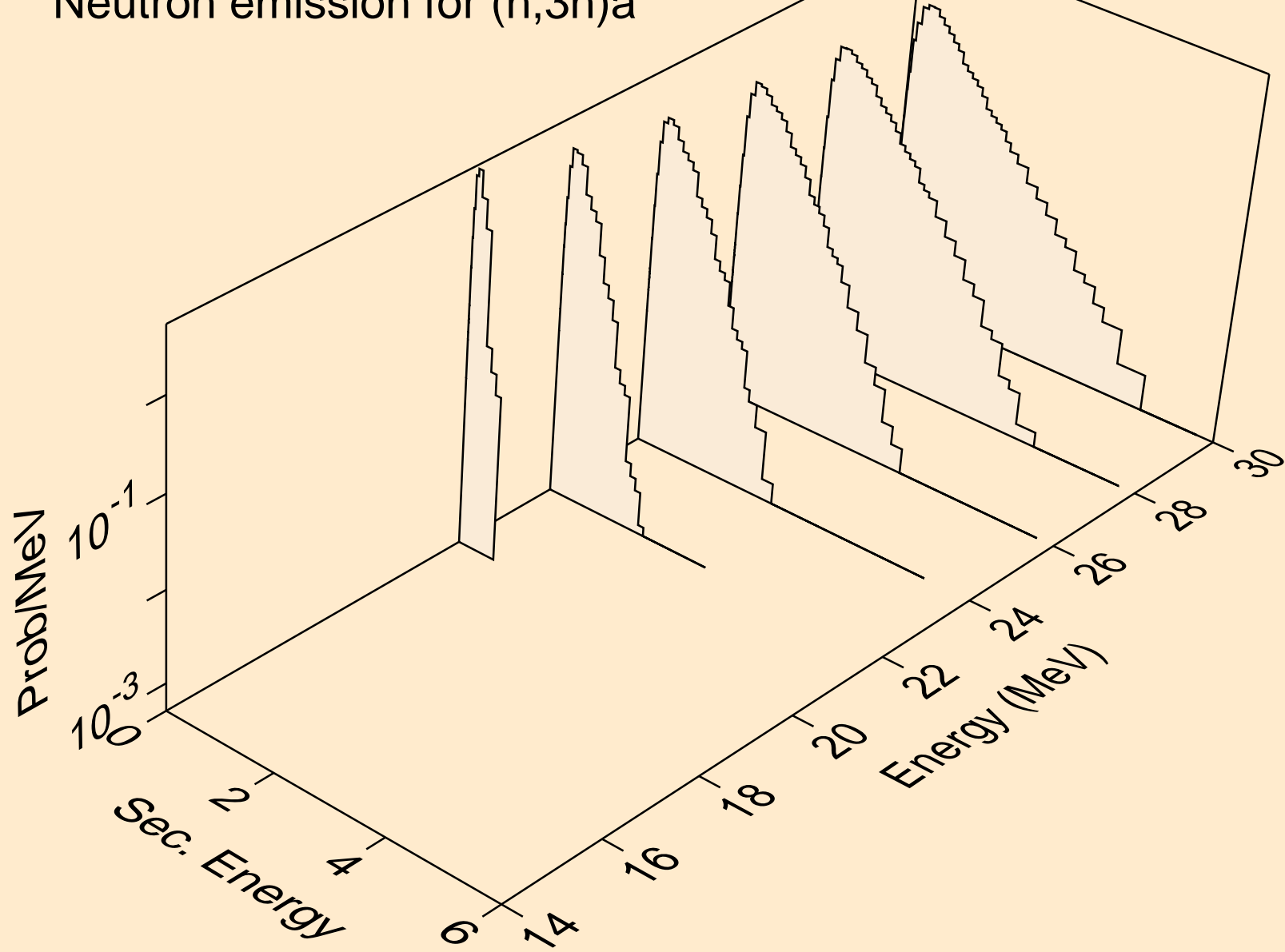
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



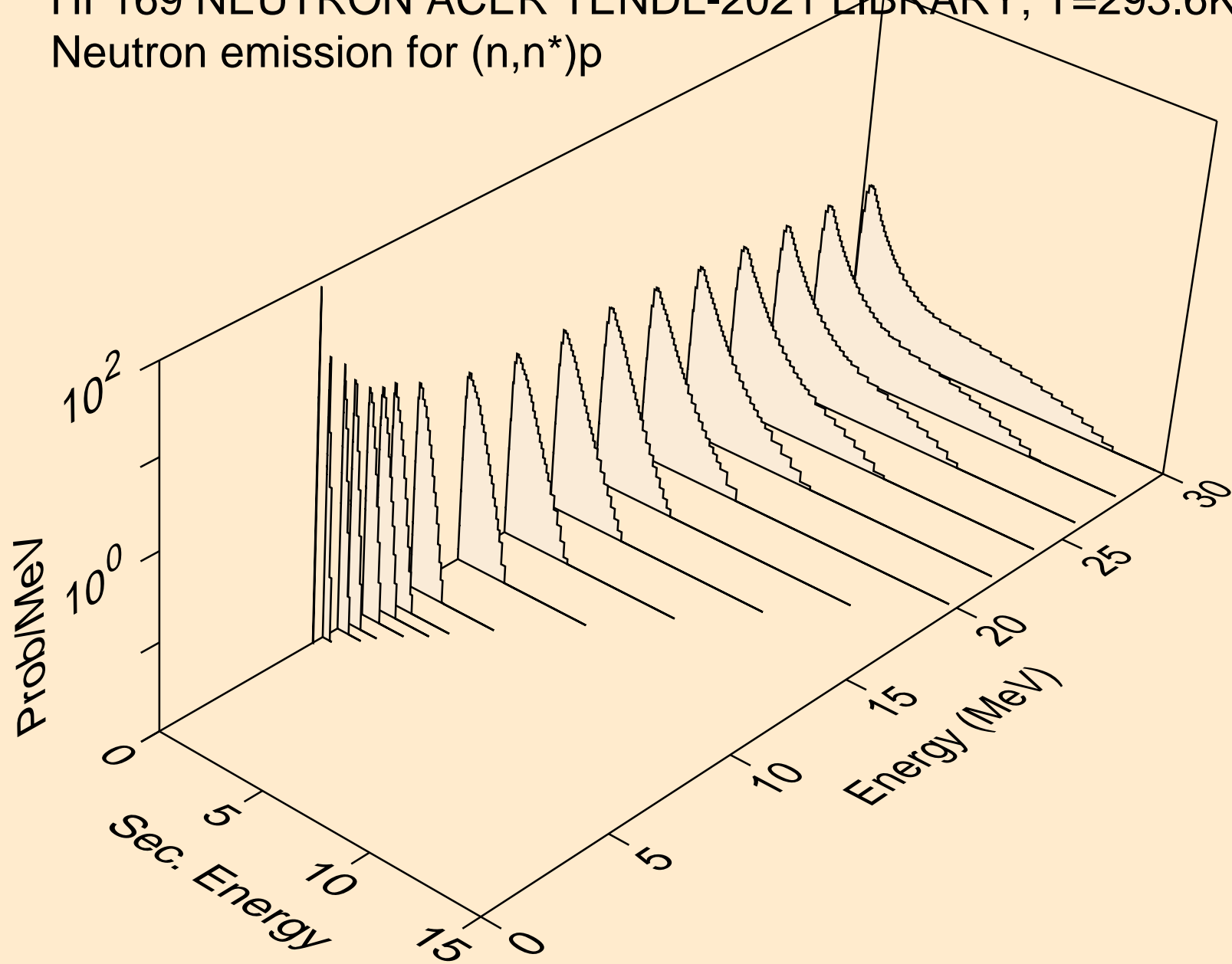
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Neutron emission for (n,2n)<sub>a</sub>



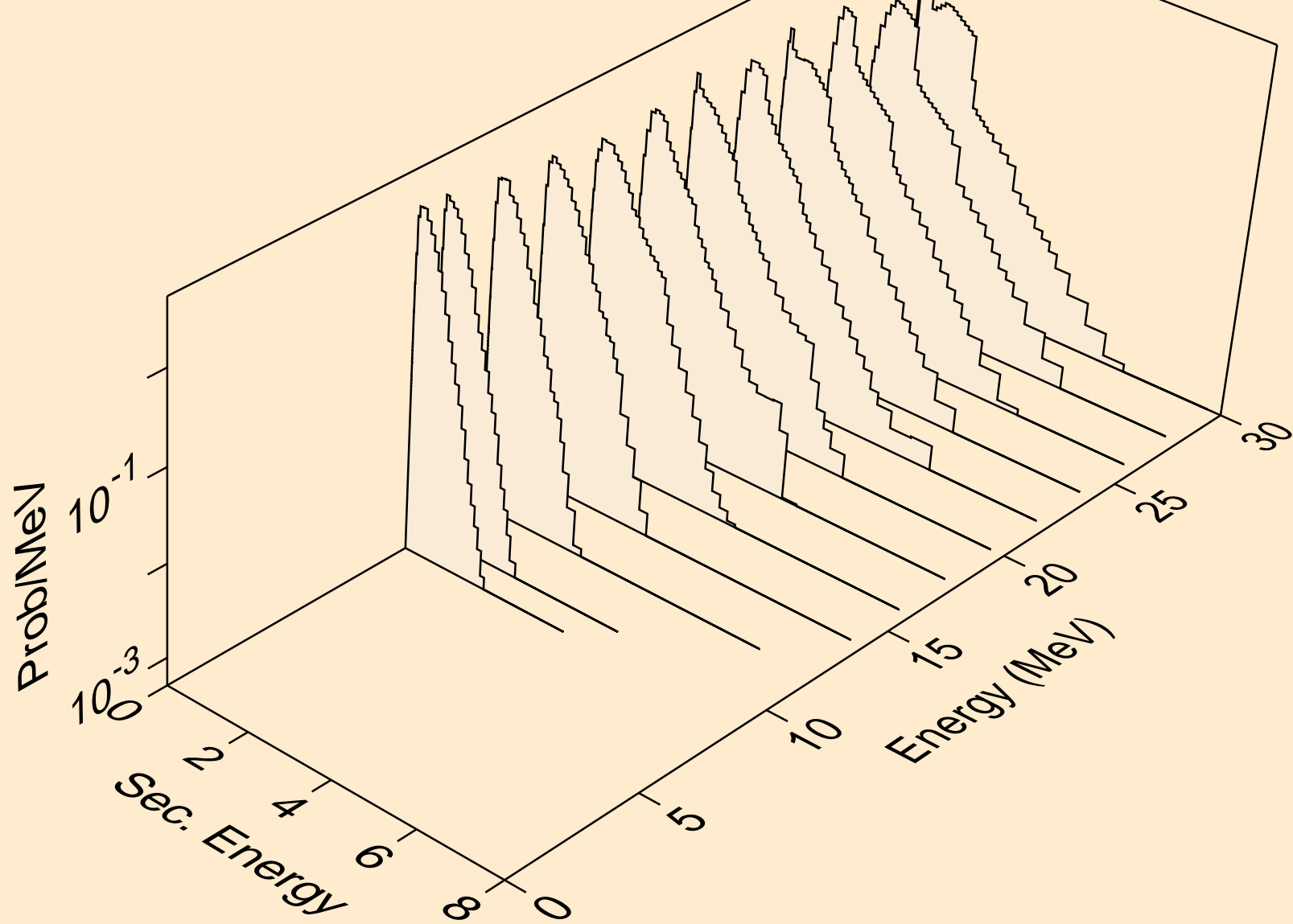
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)<sub>a</sub>



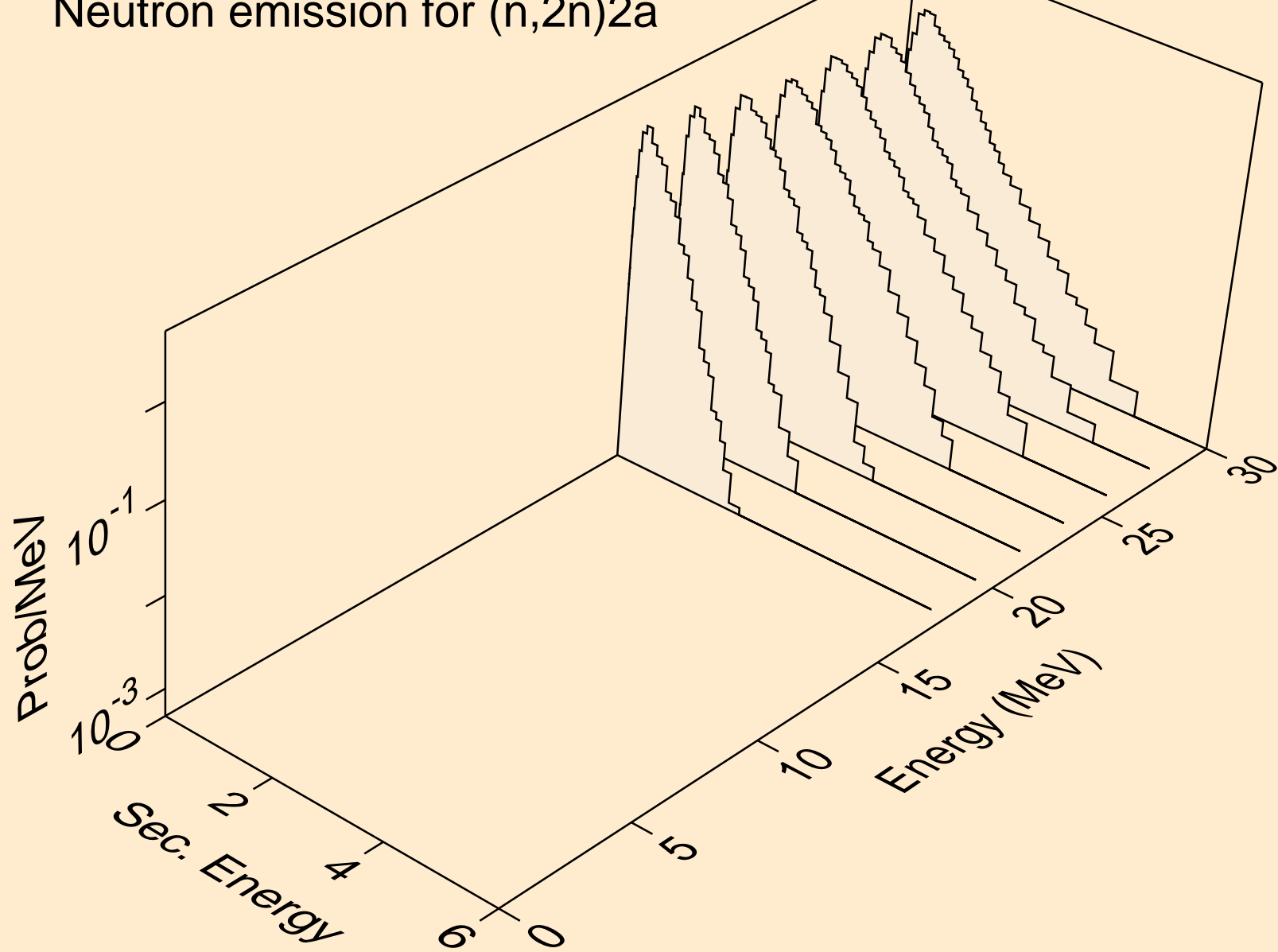
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Neutron emission for (n,n\*)p



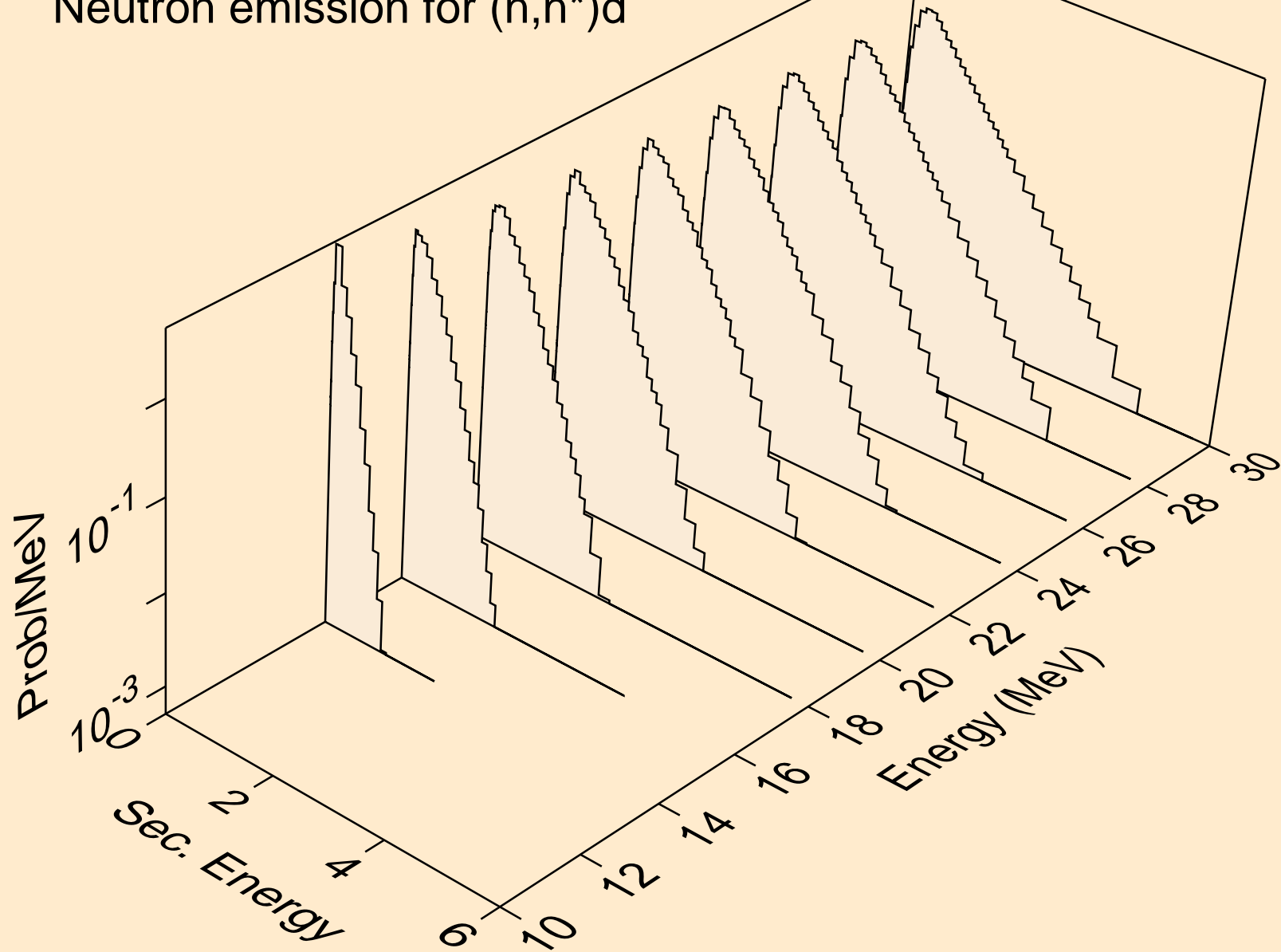
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)2a

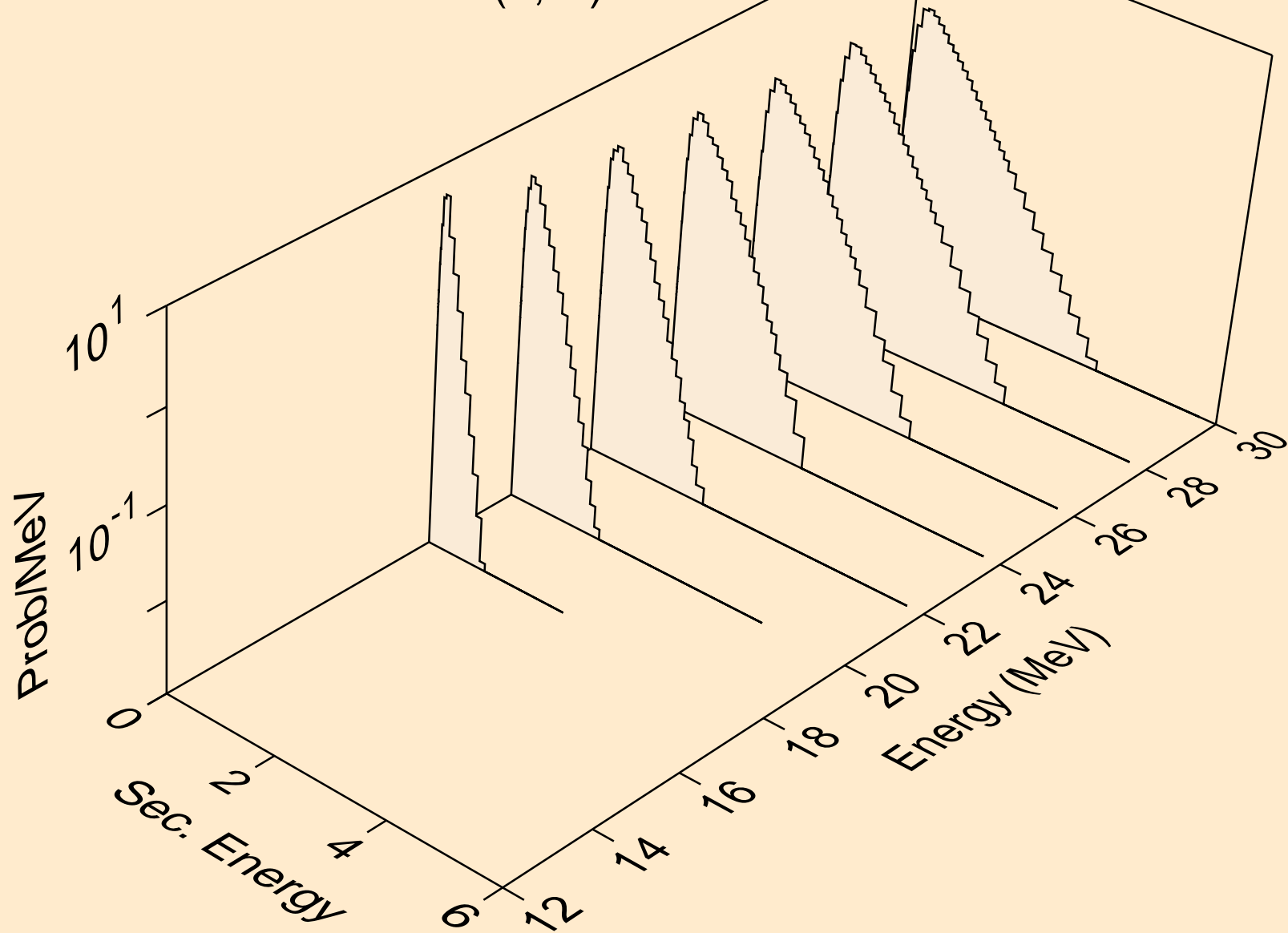


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

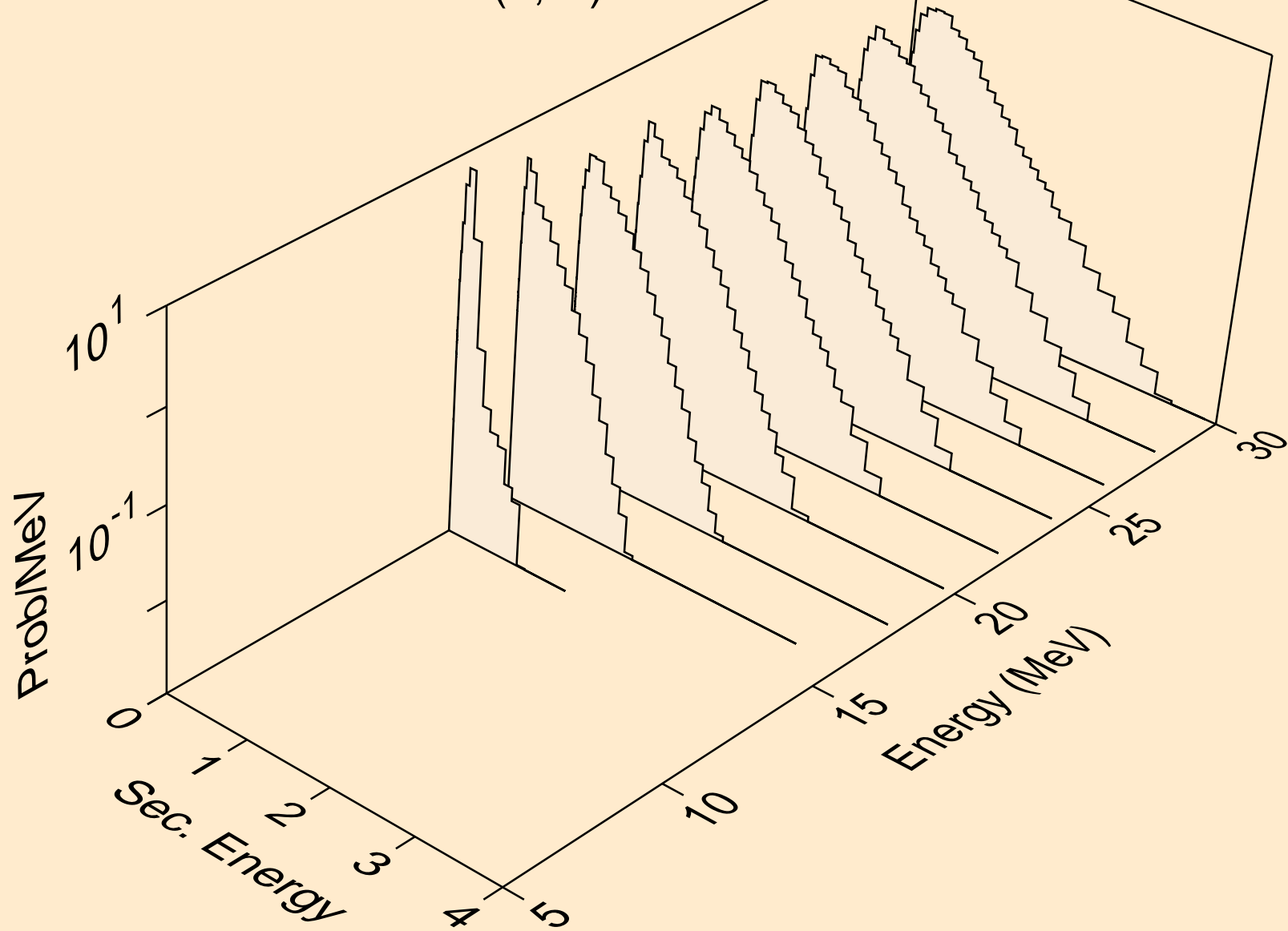




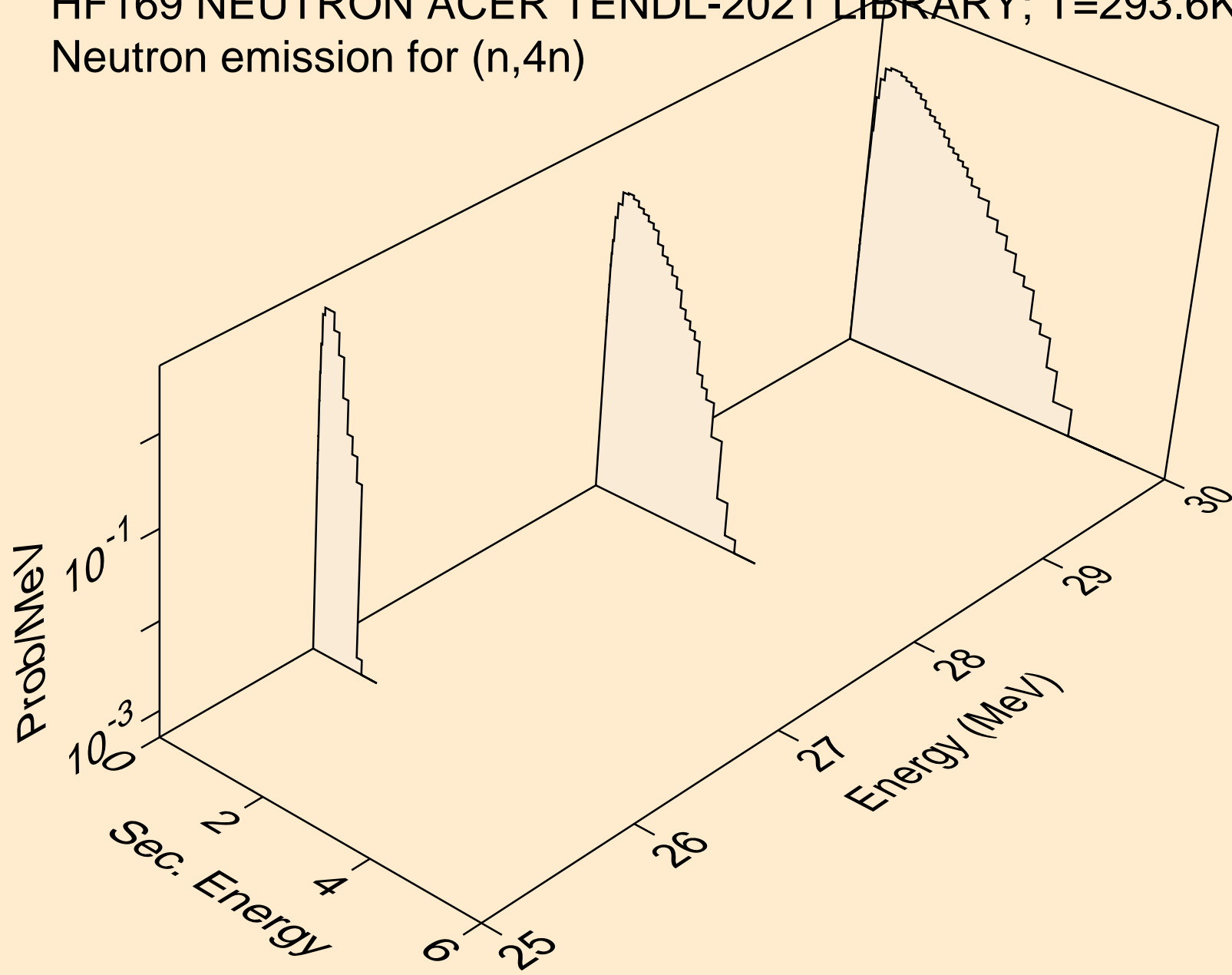
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Neutron emission for (n,n\*)t



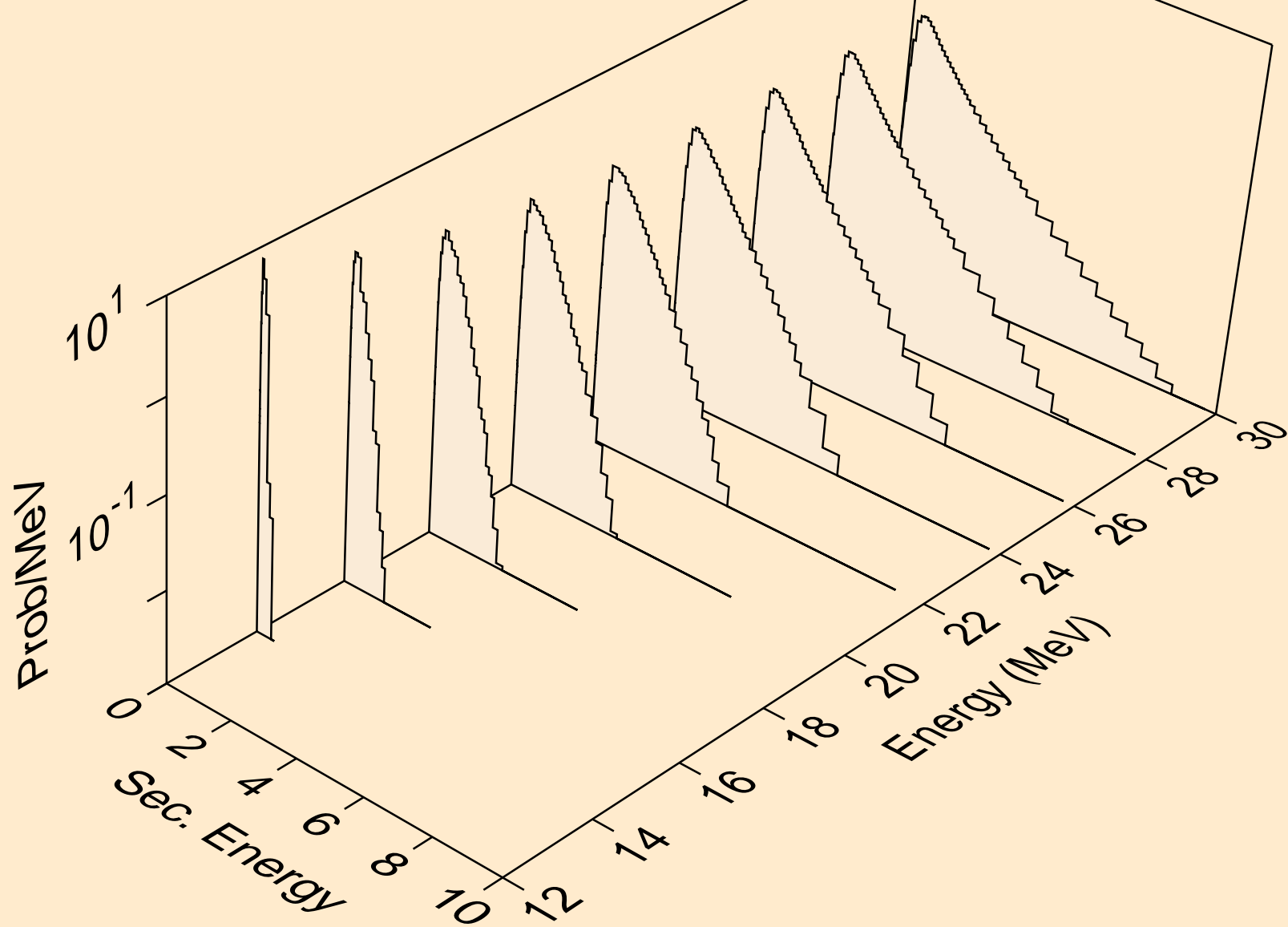
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



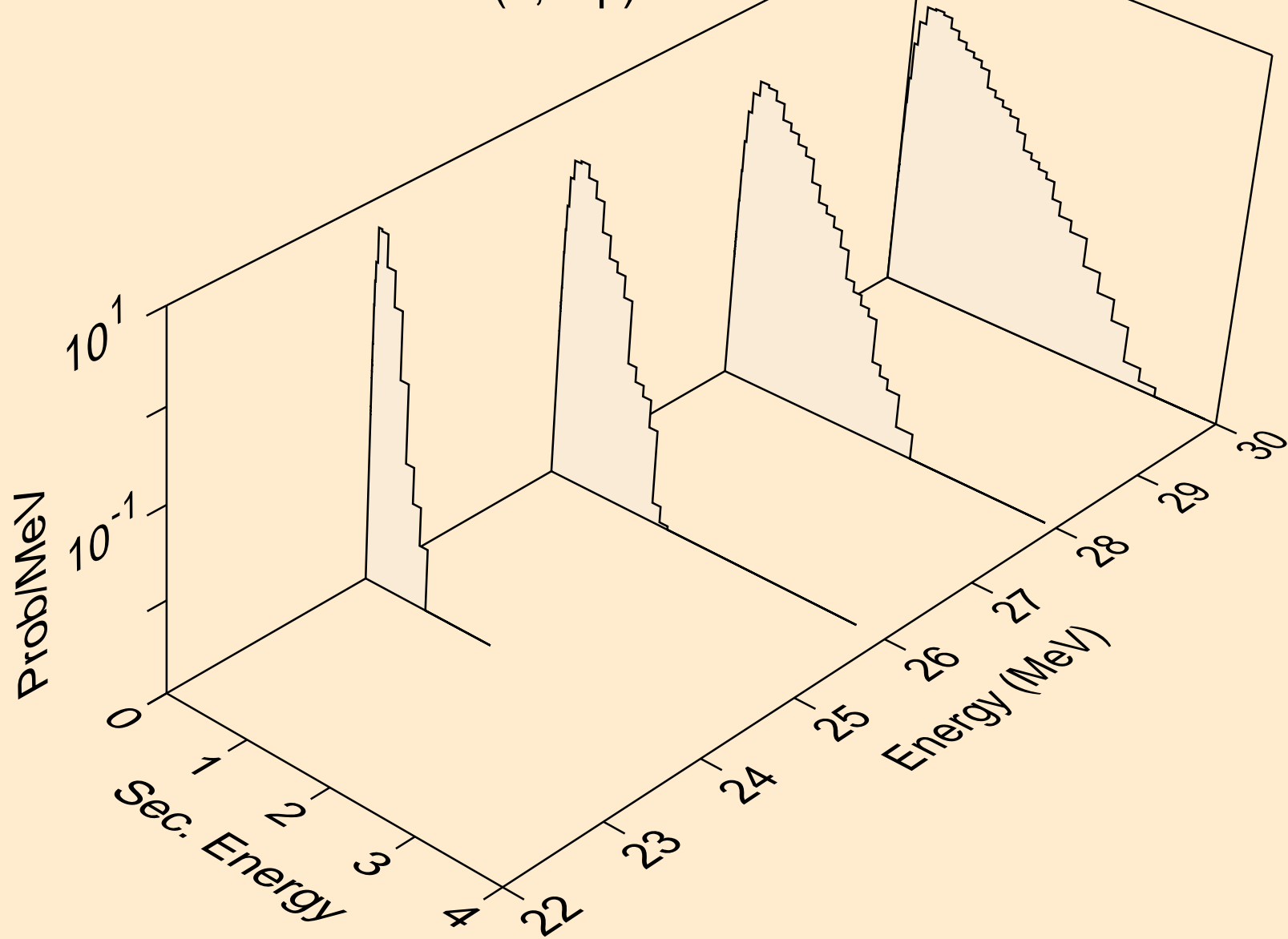
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



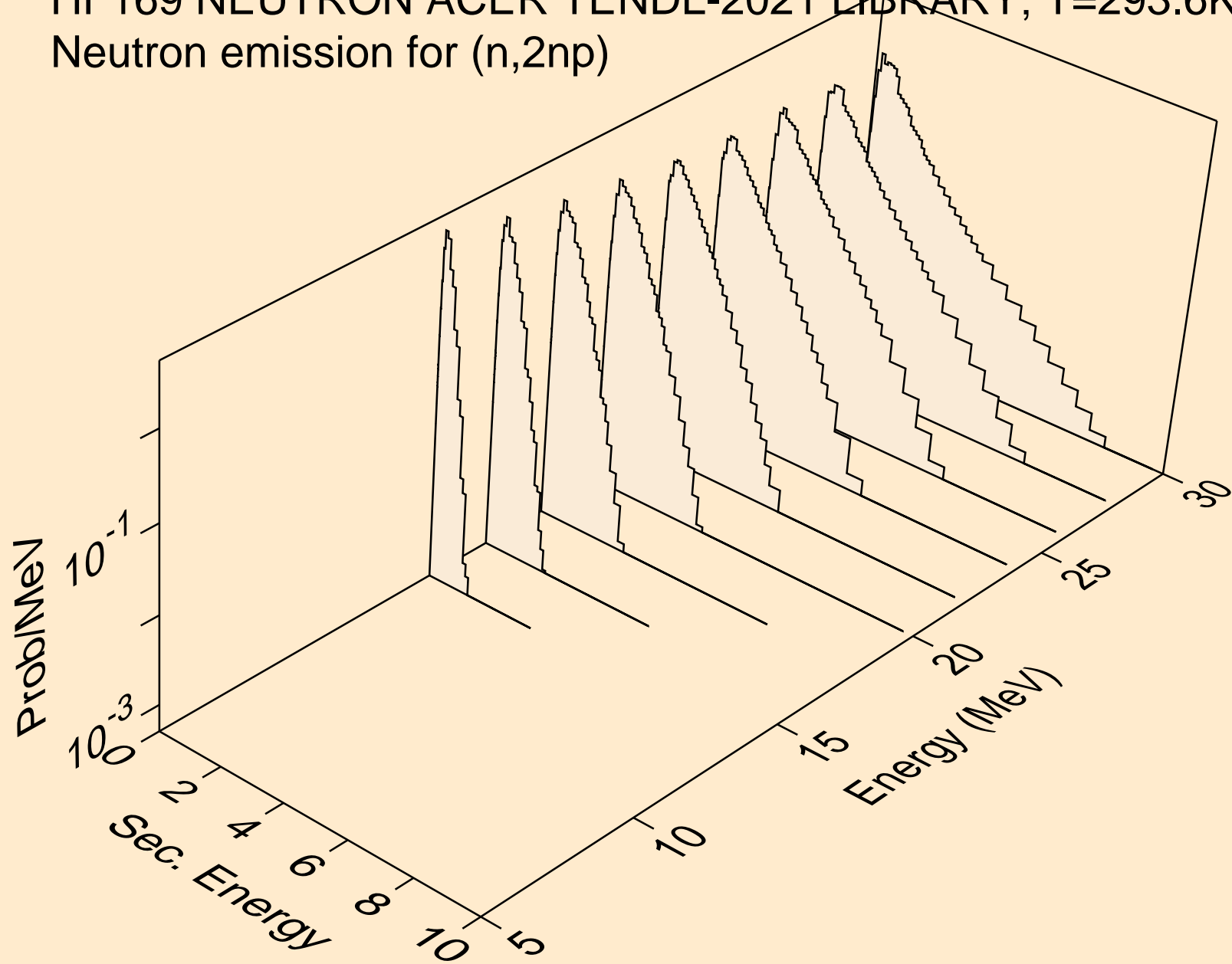
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



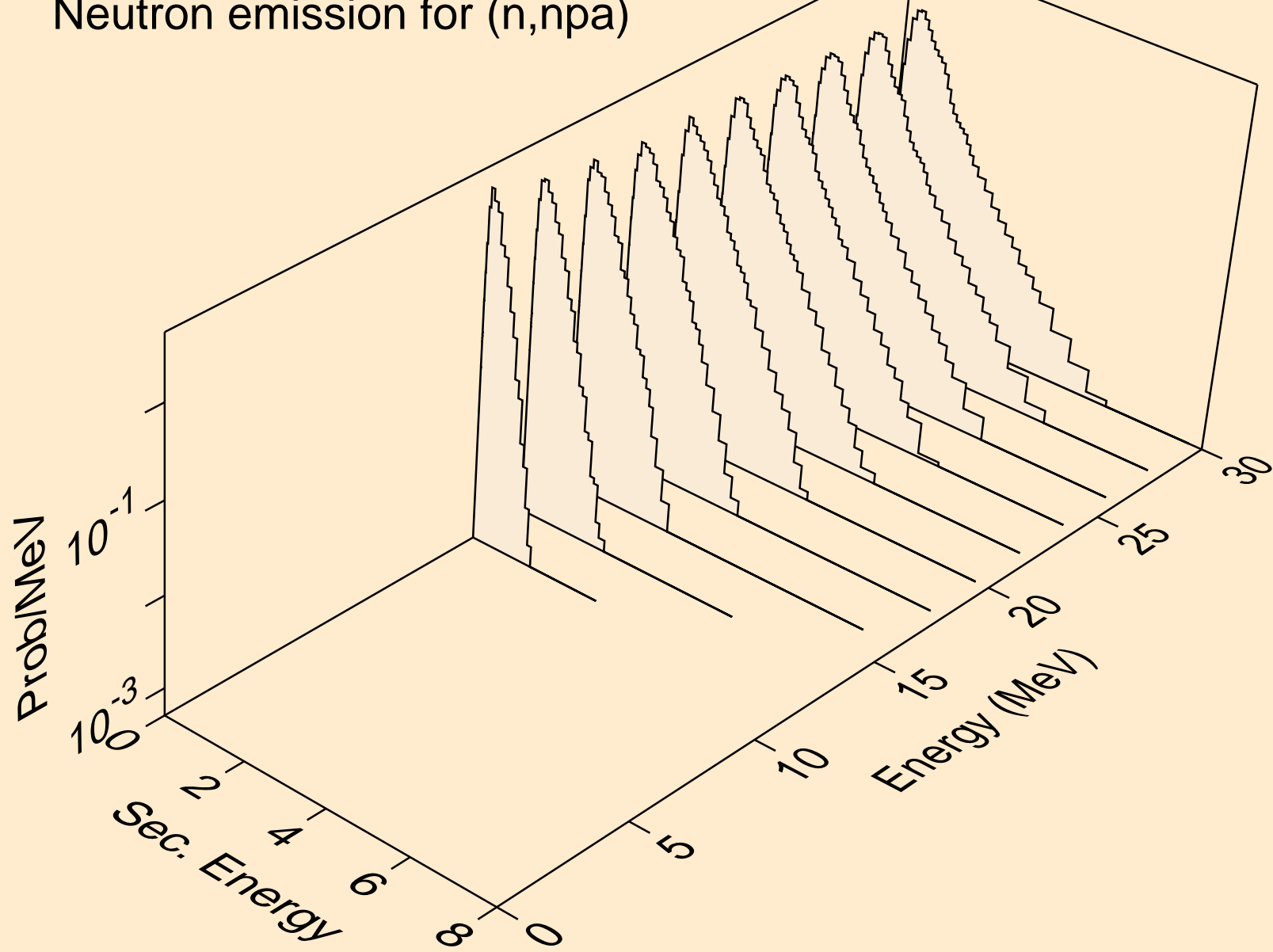
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



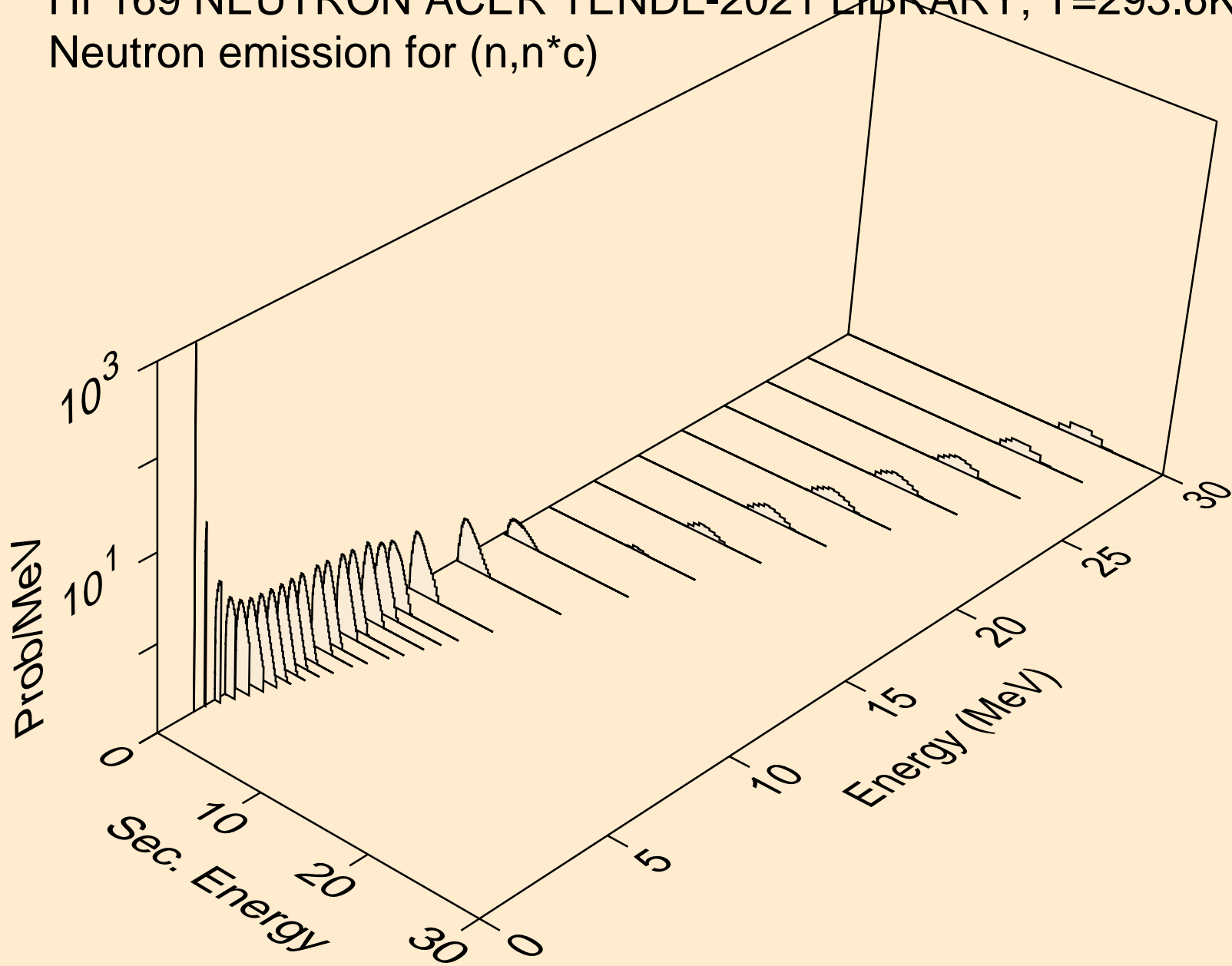
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)

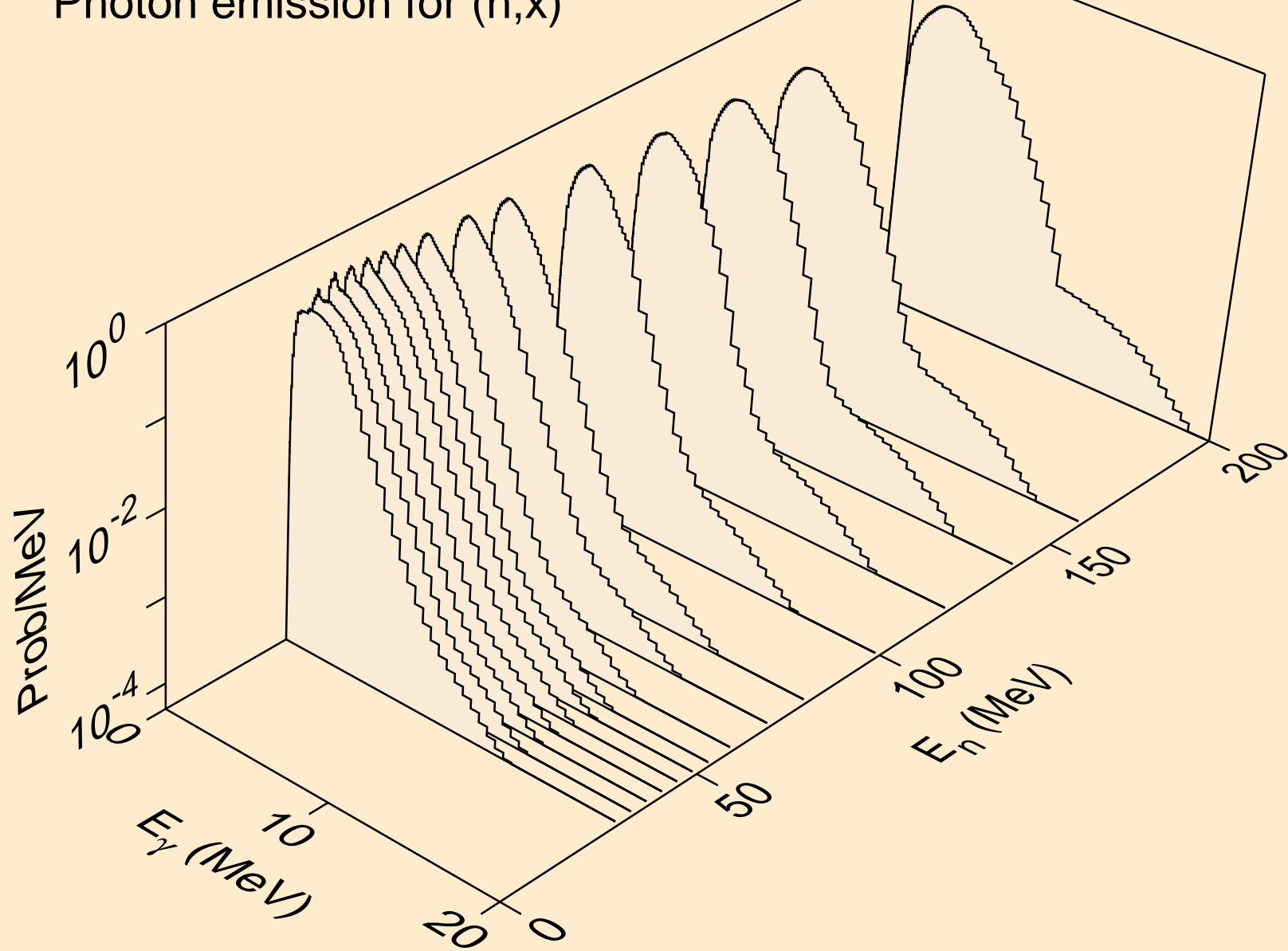


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)

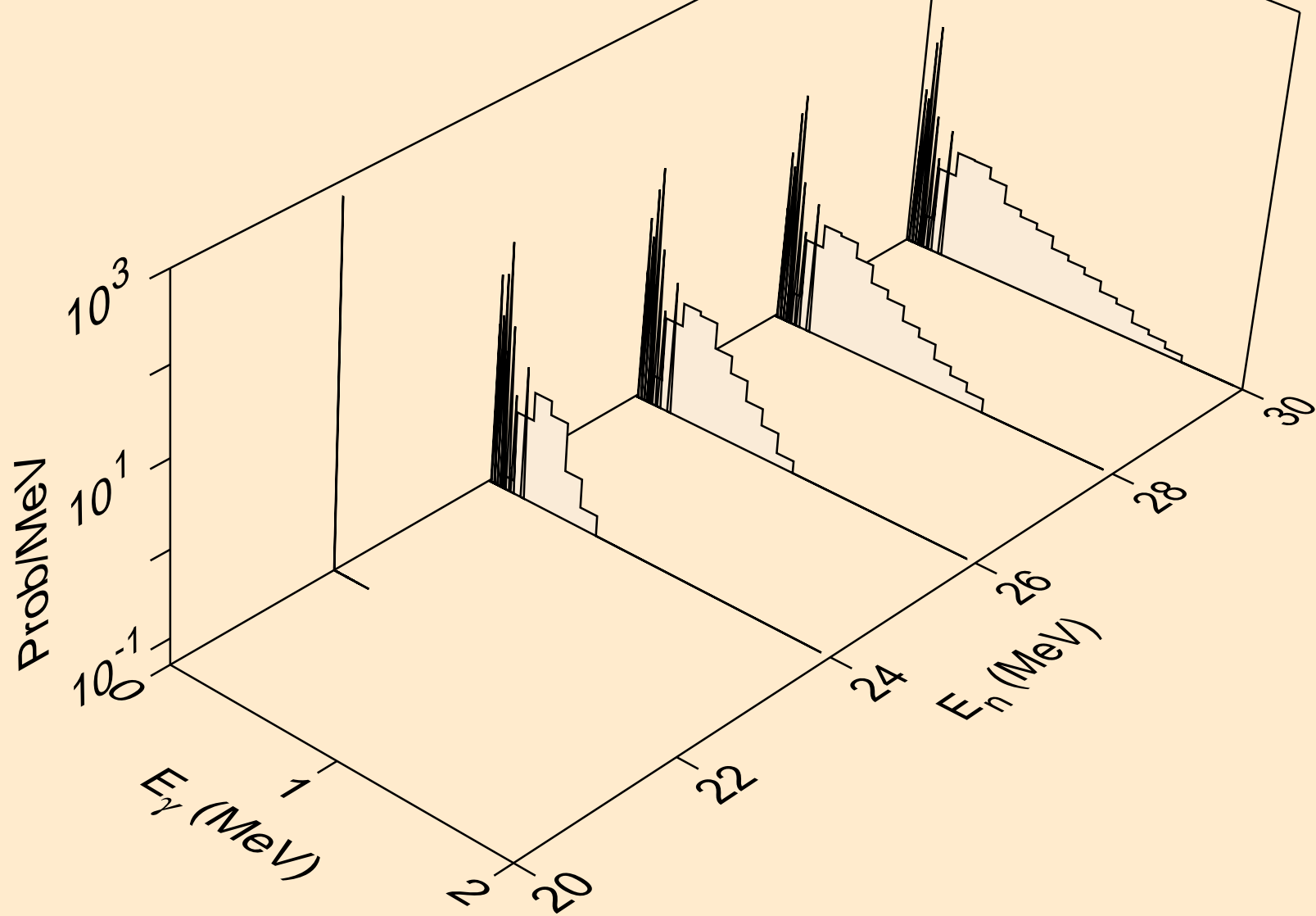




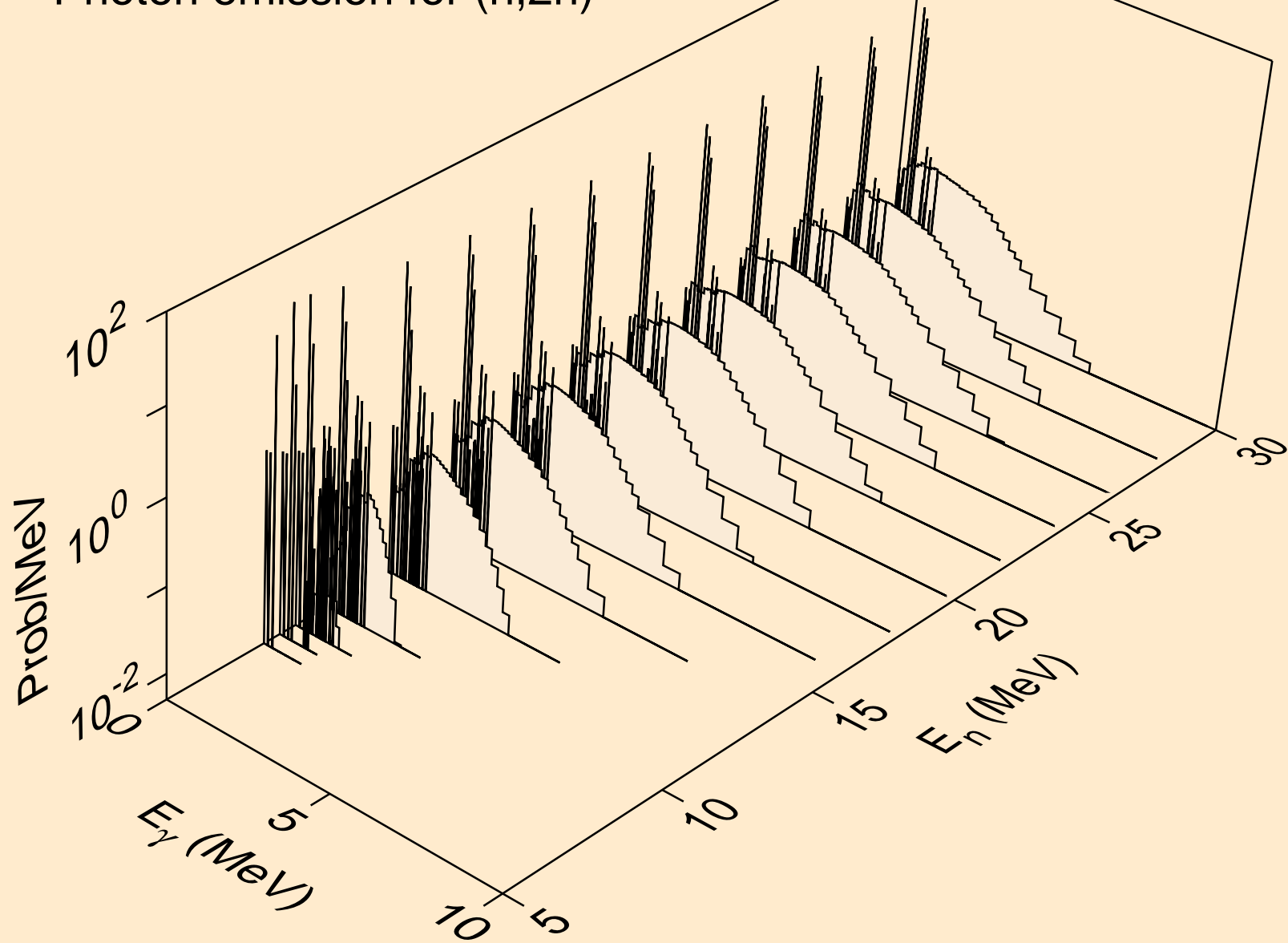
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



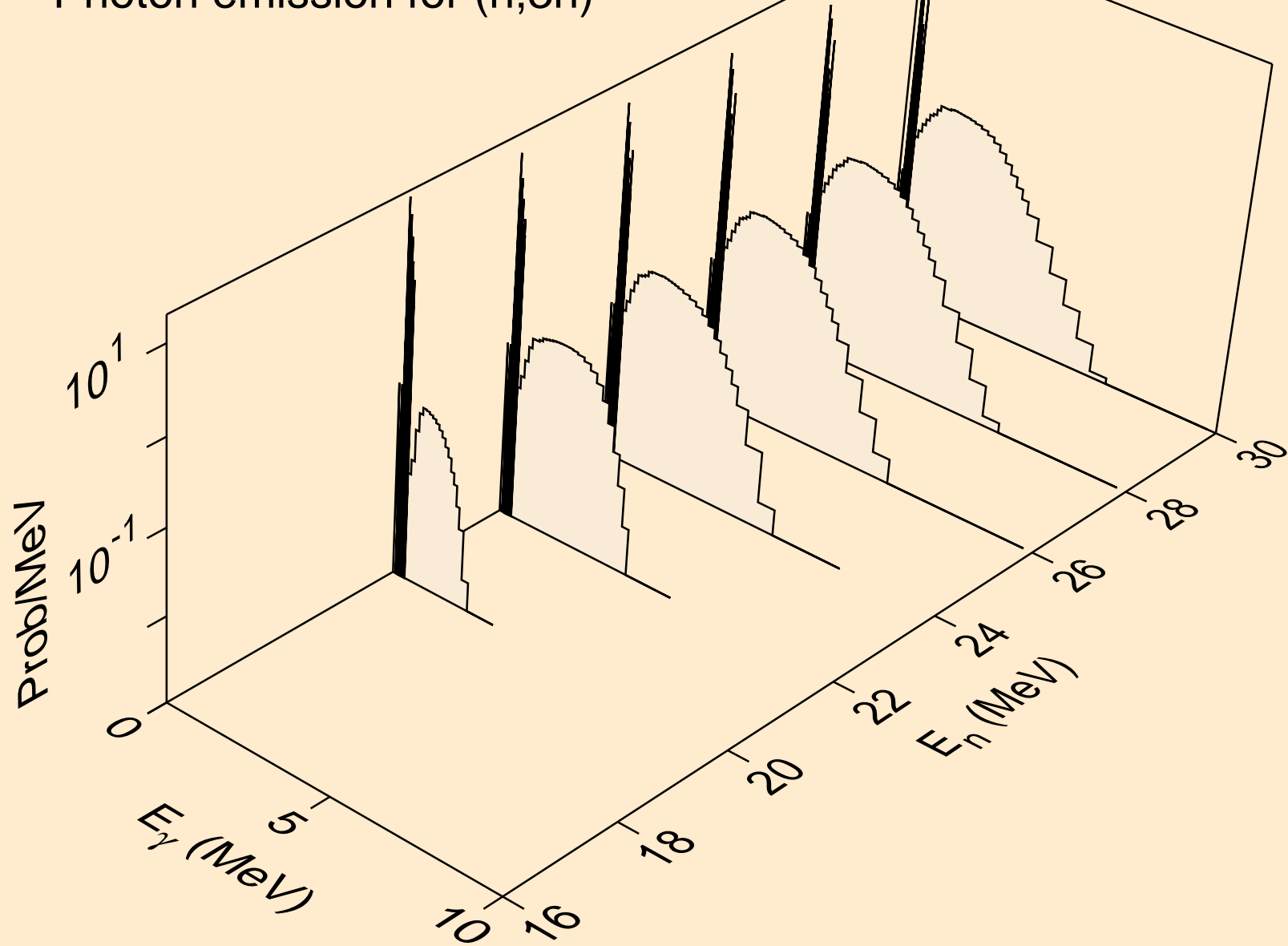
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



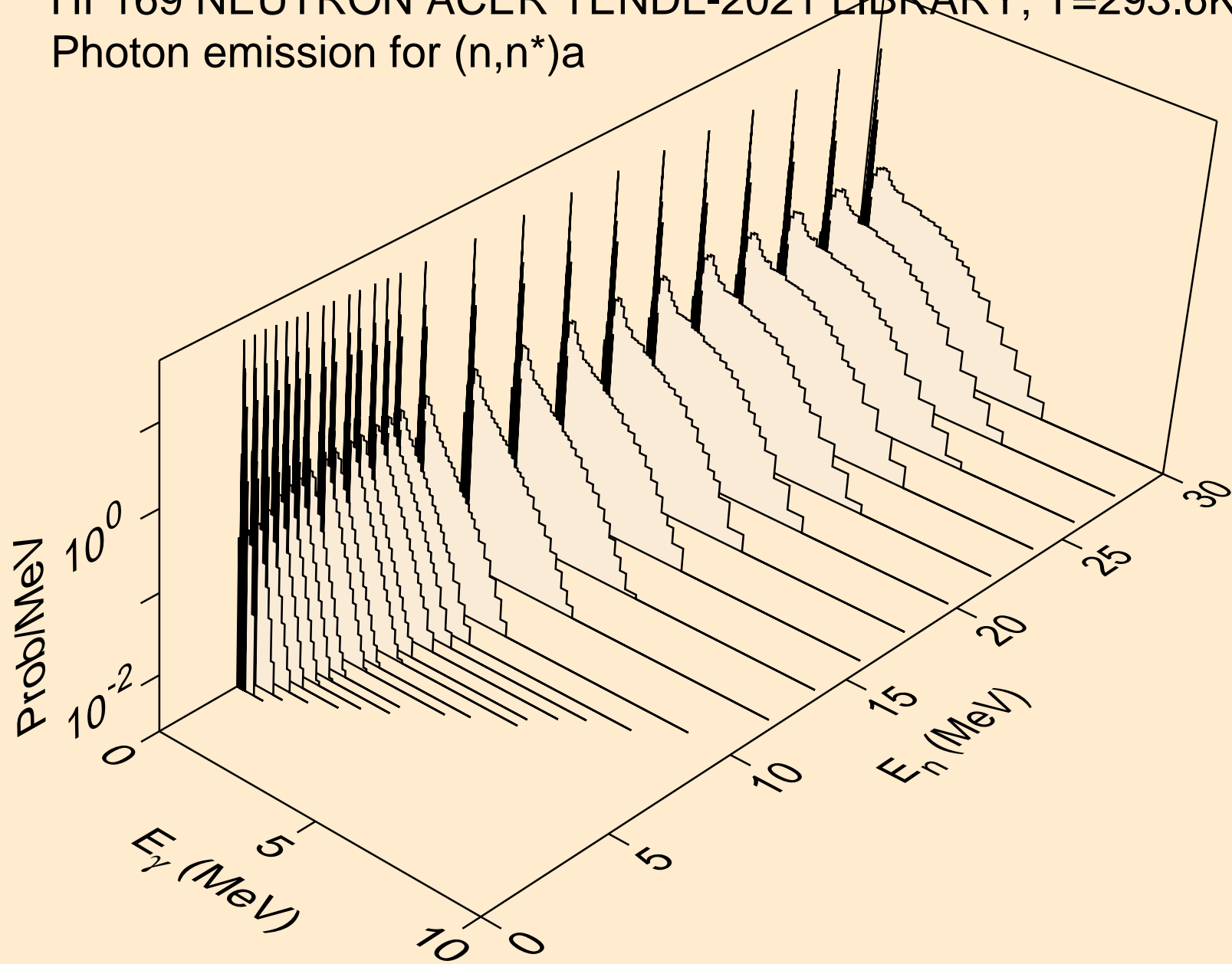
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)



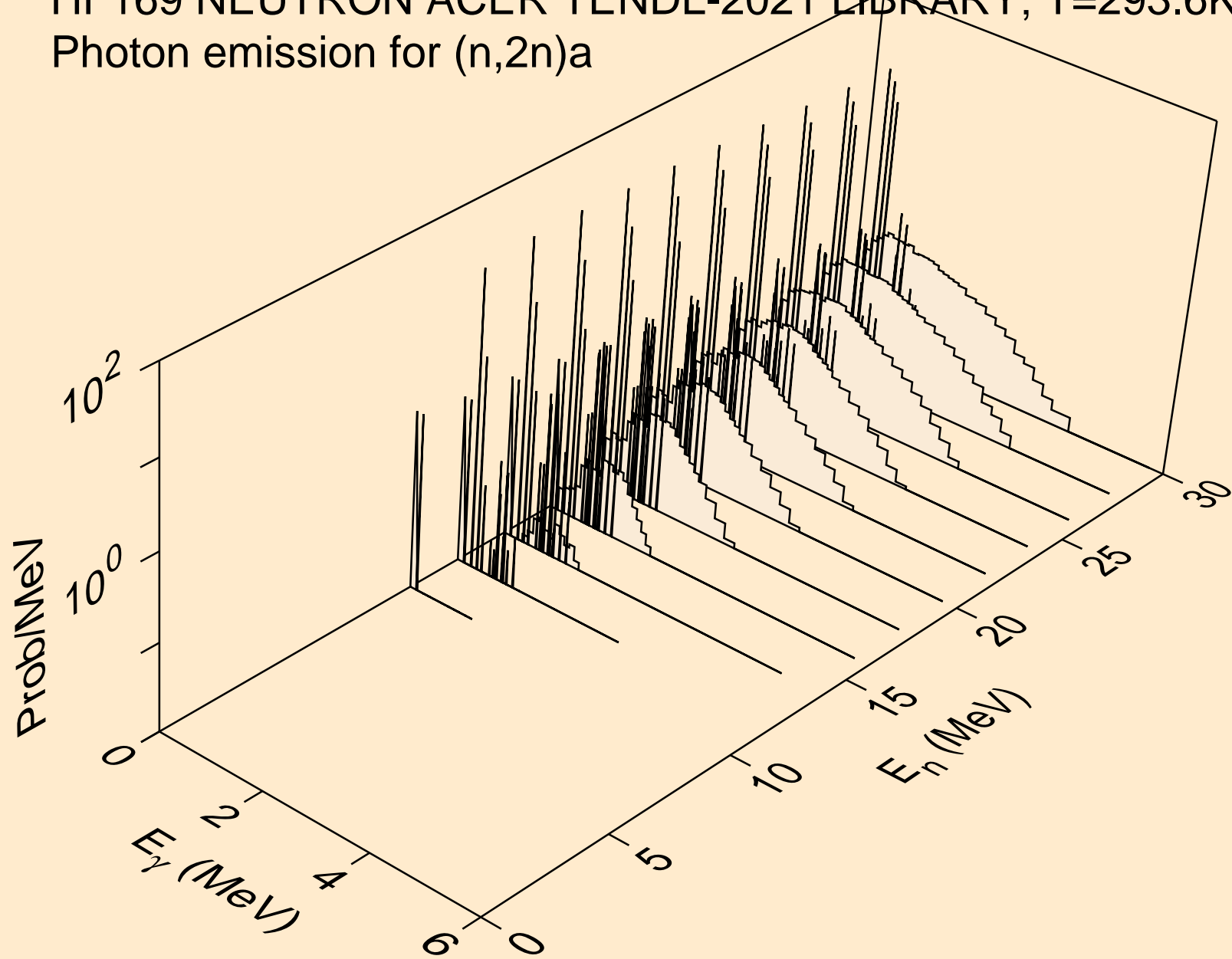
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



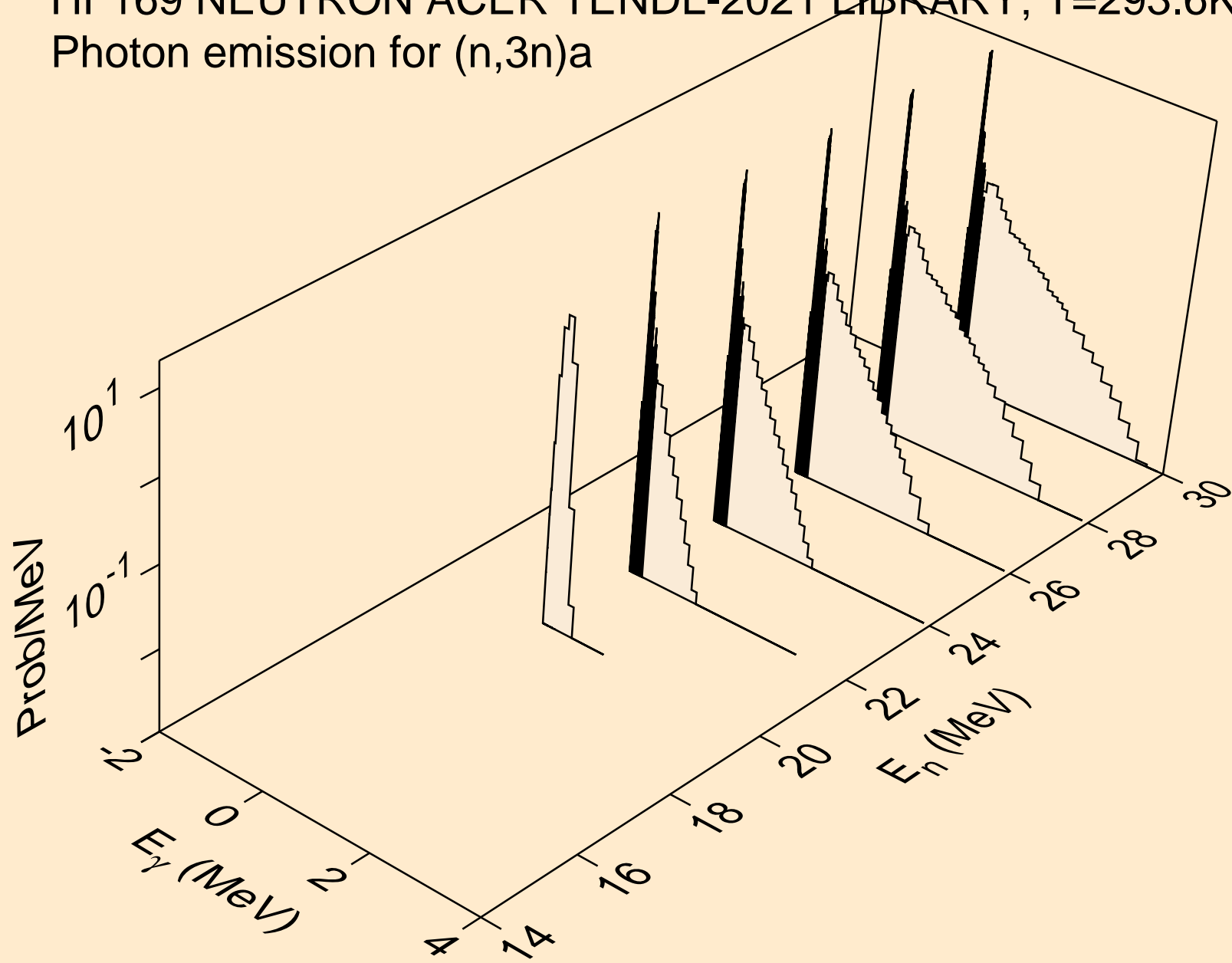
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



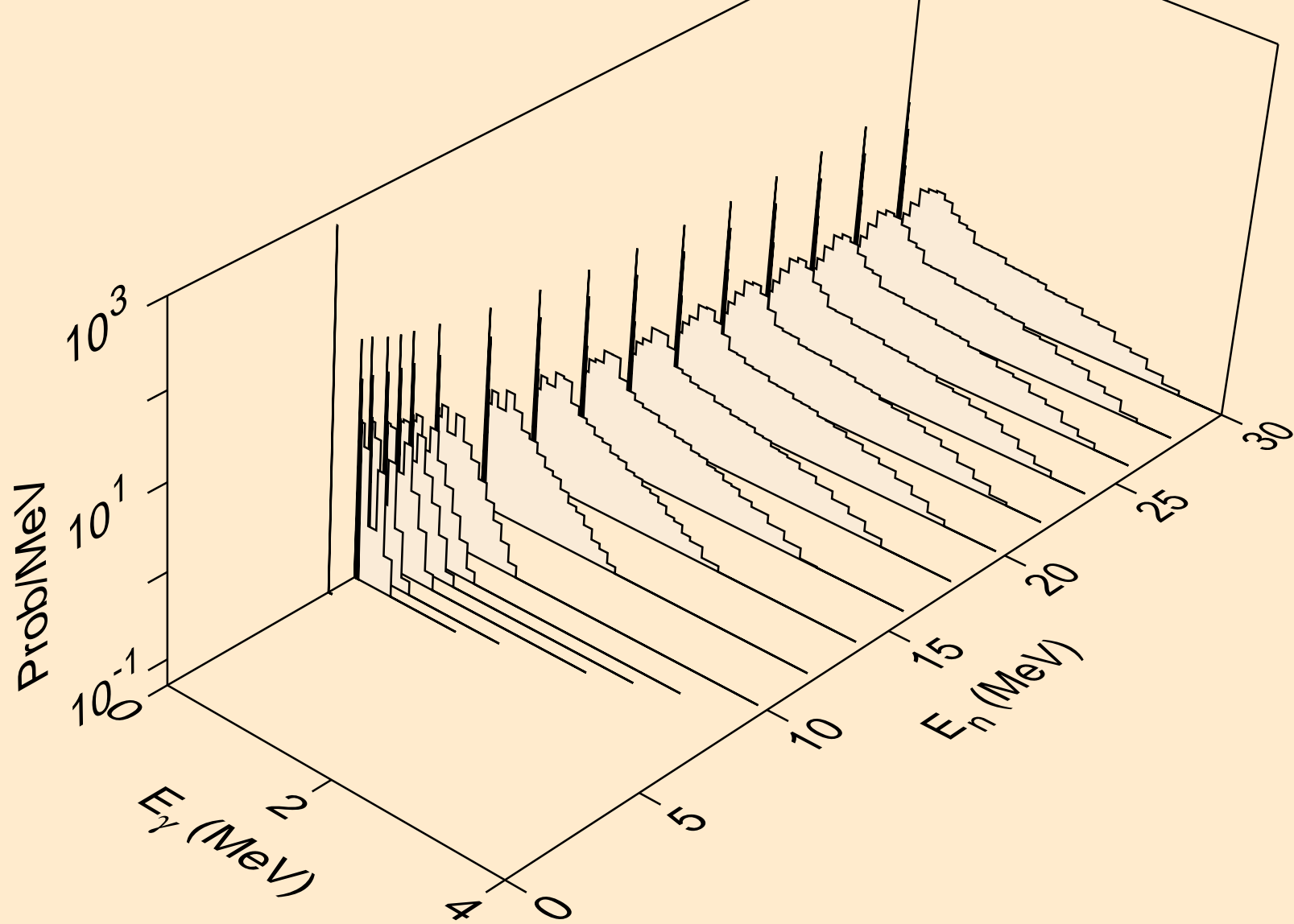
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a

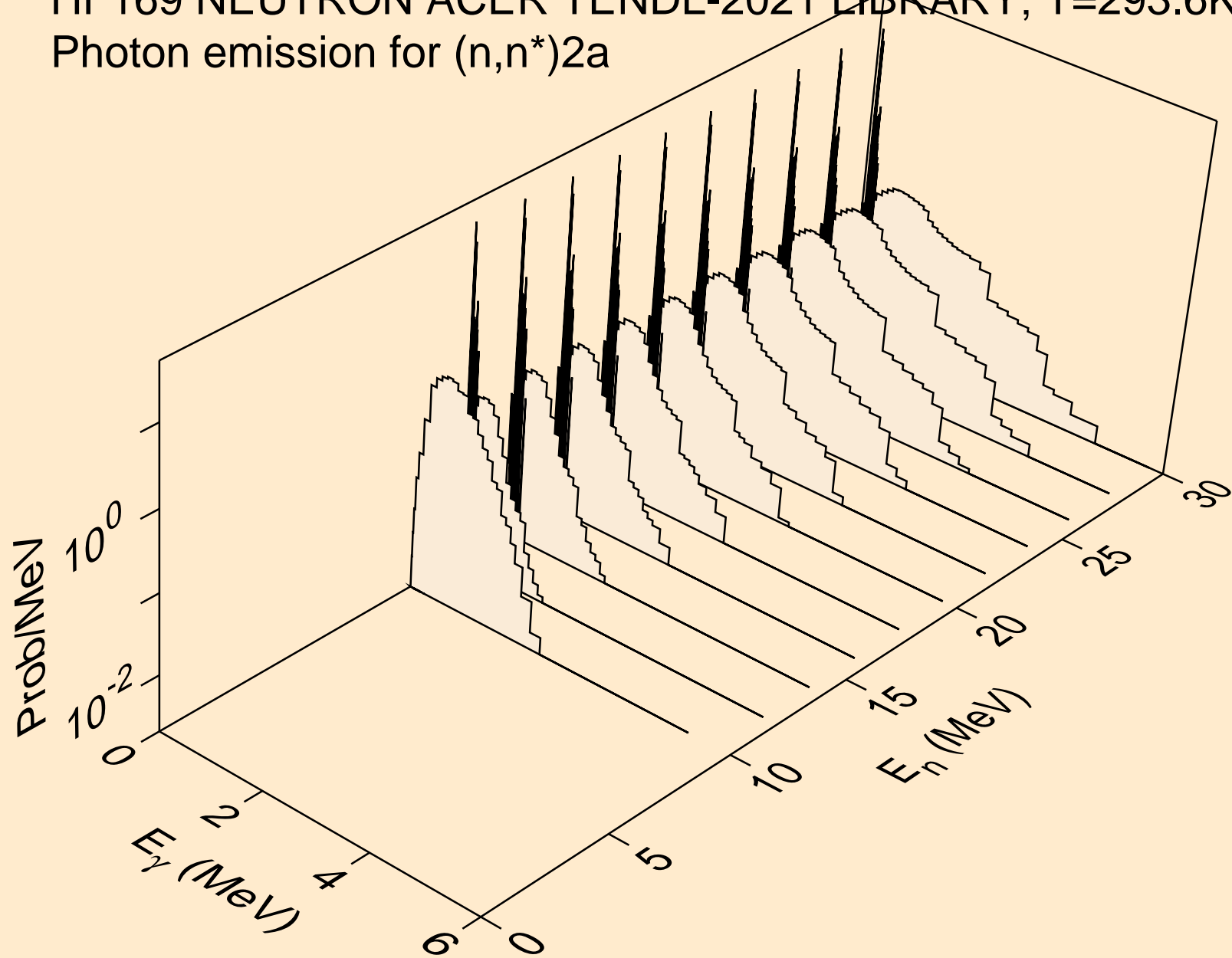


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p

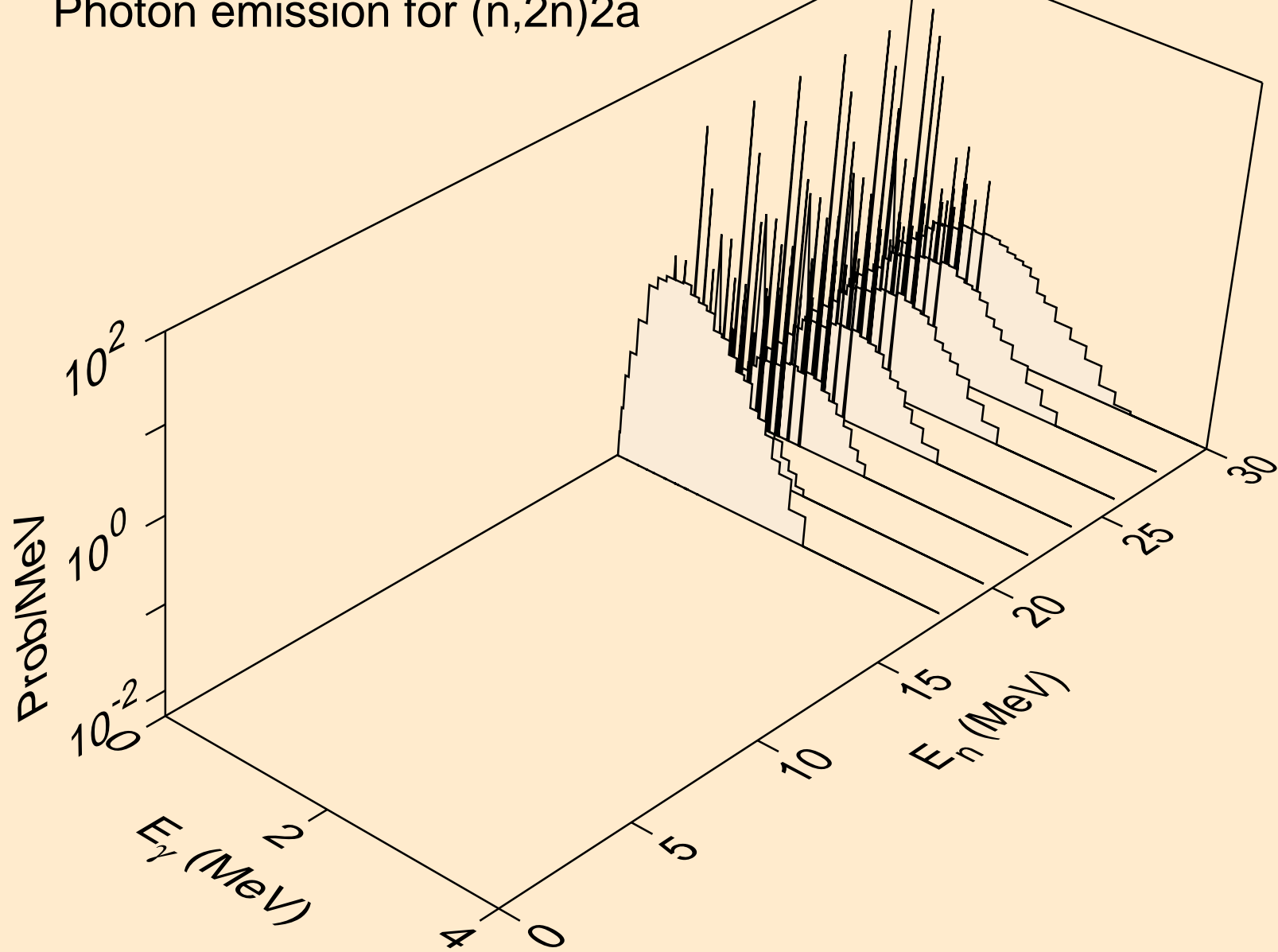




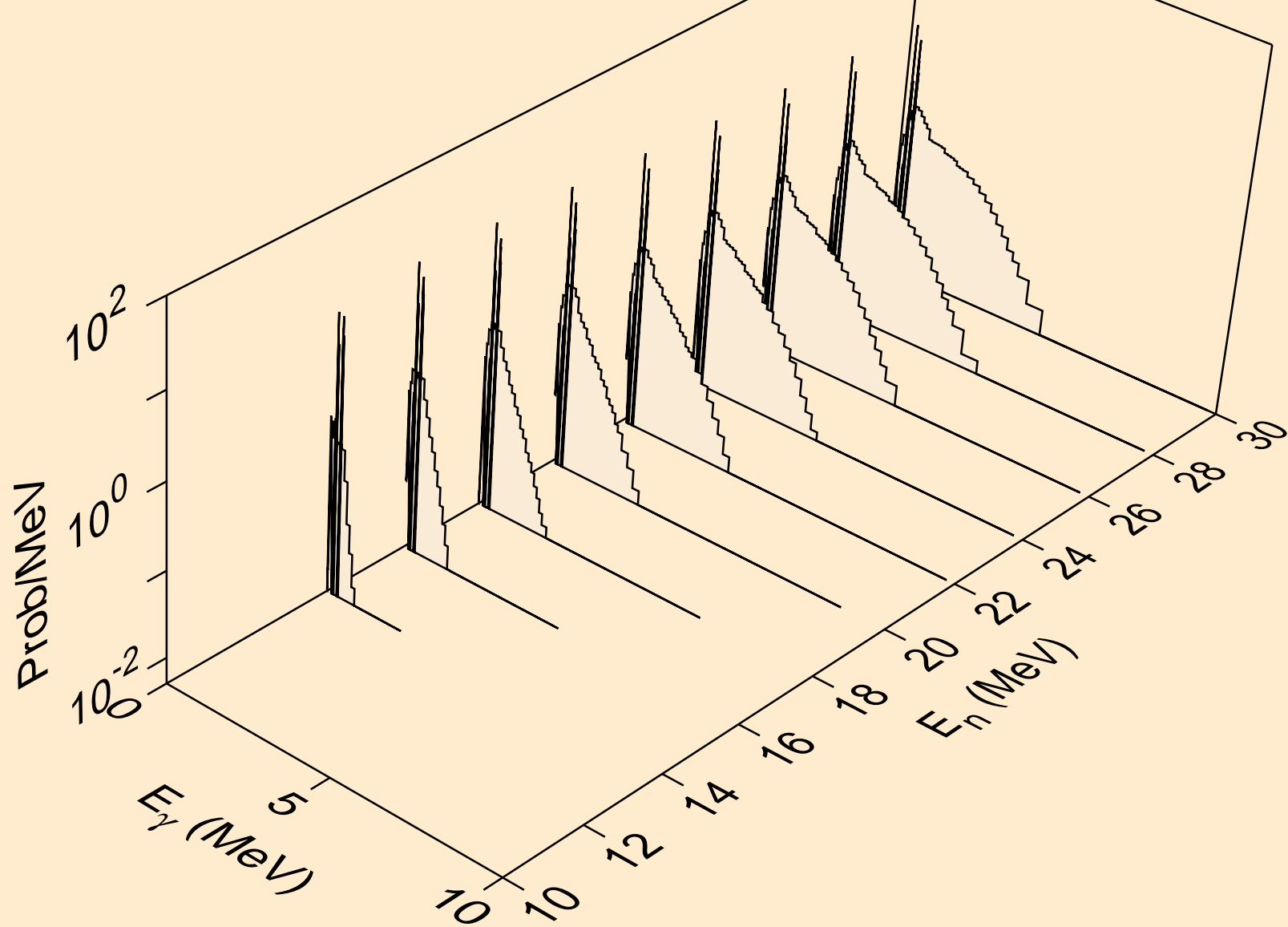
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Photon emission for (n,n\*)2a



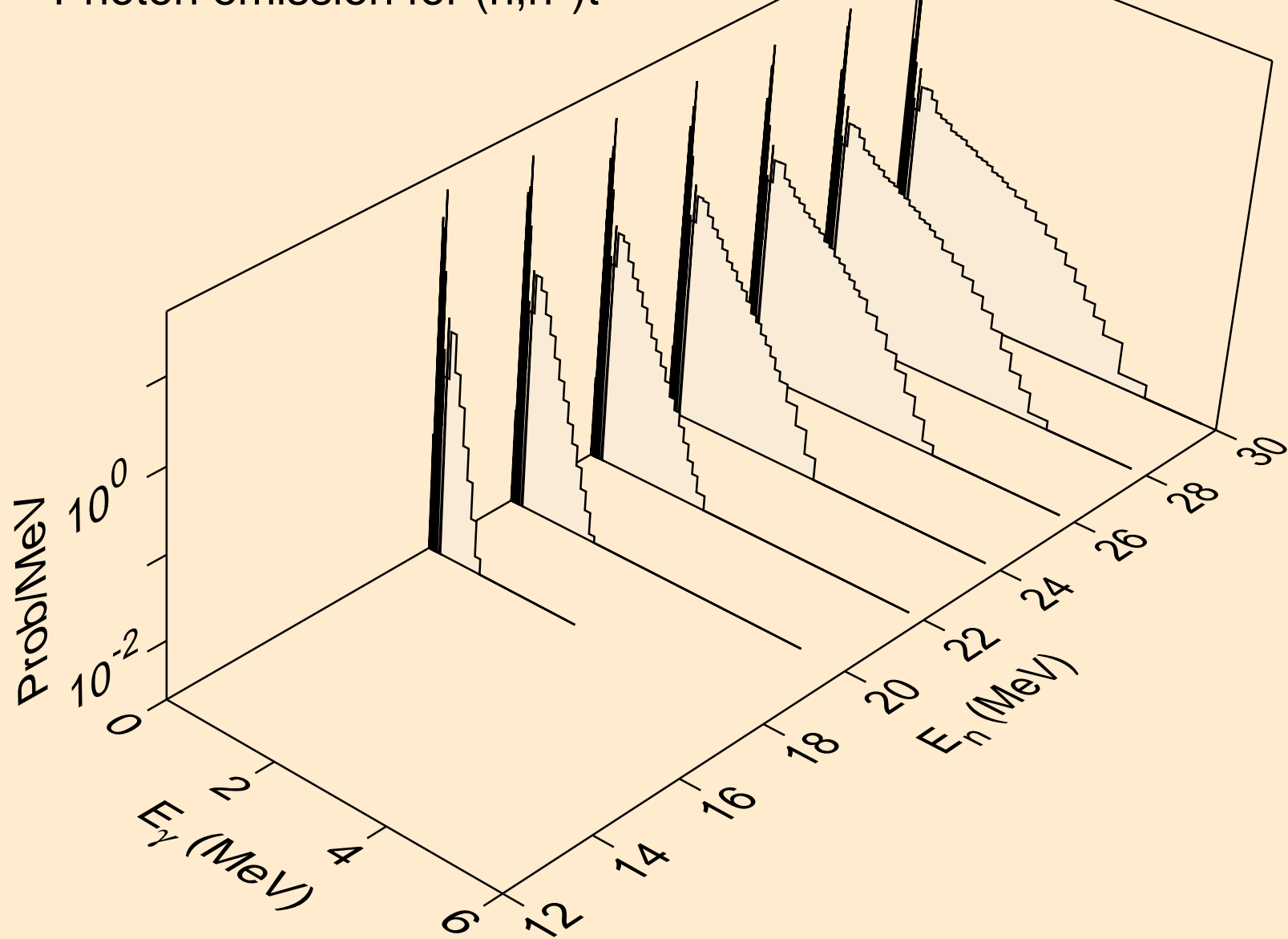
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)2a



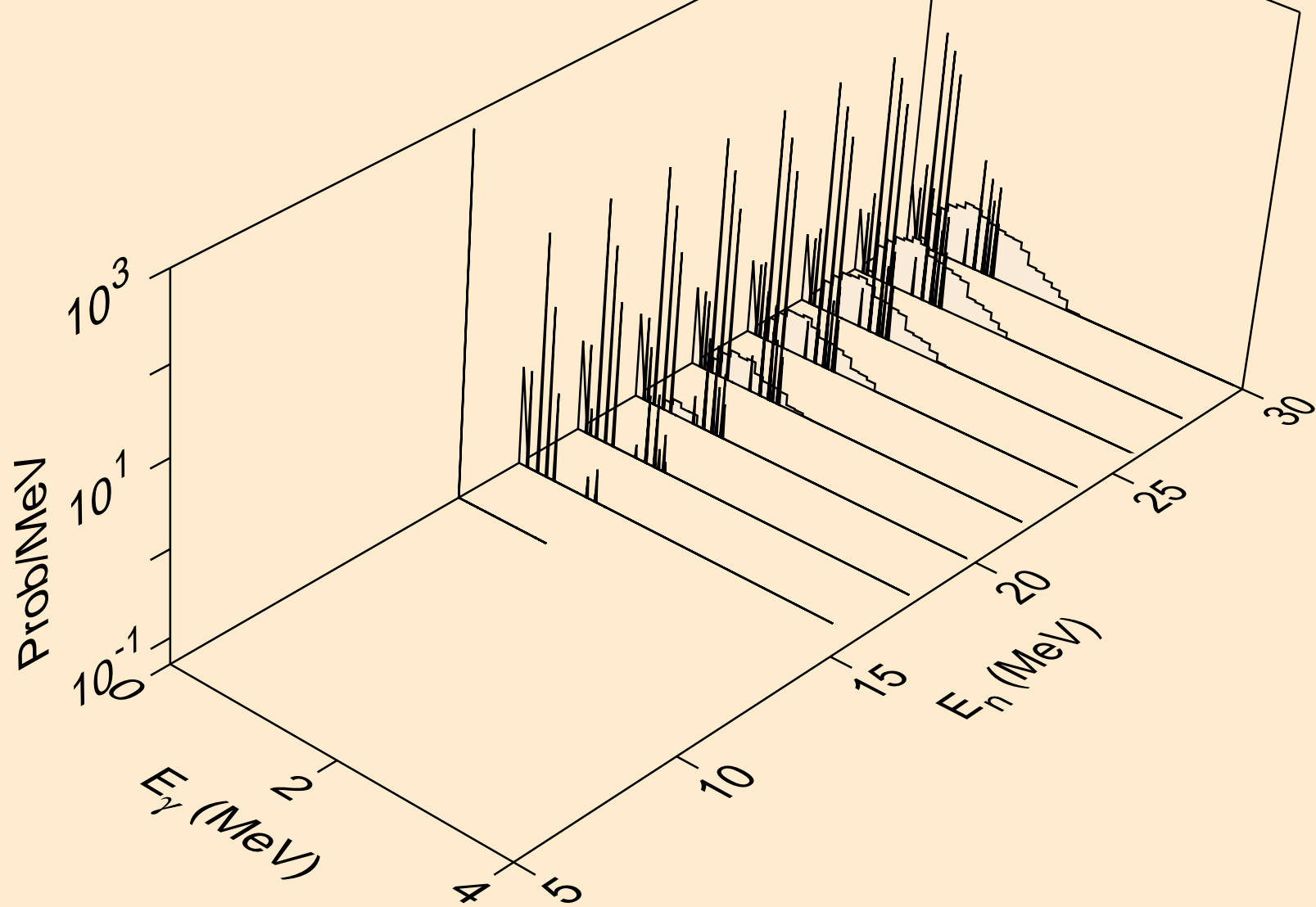
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



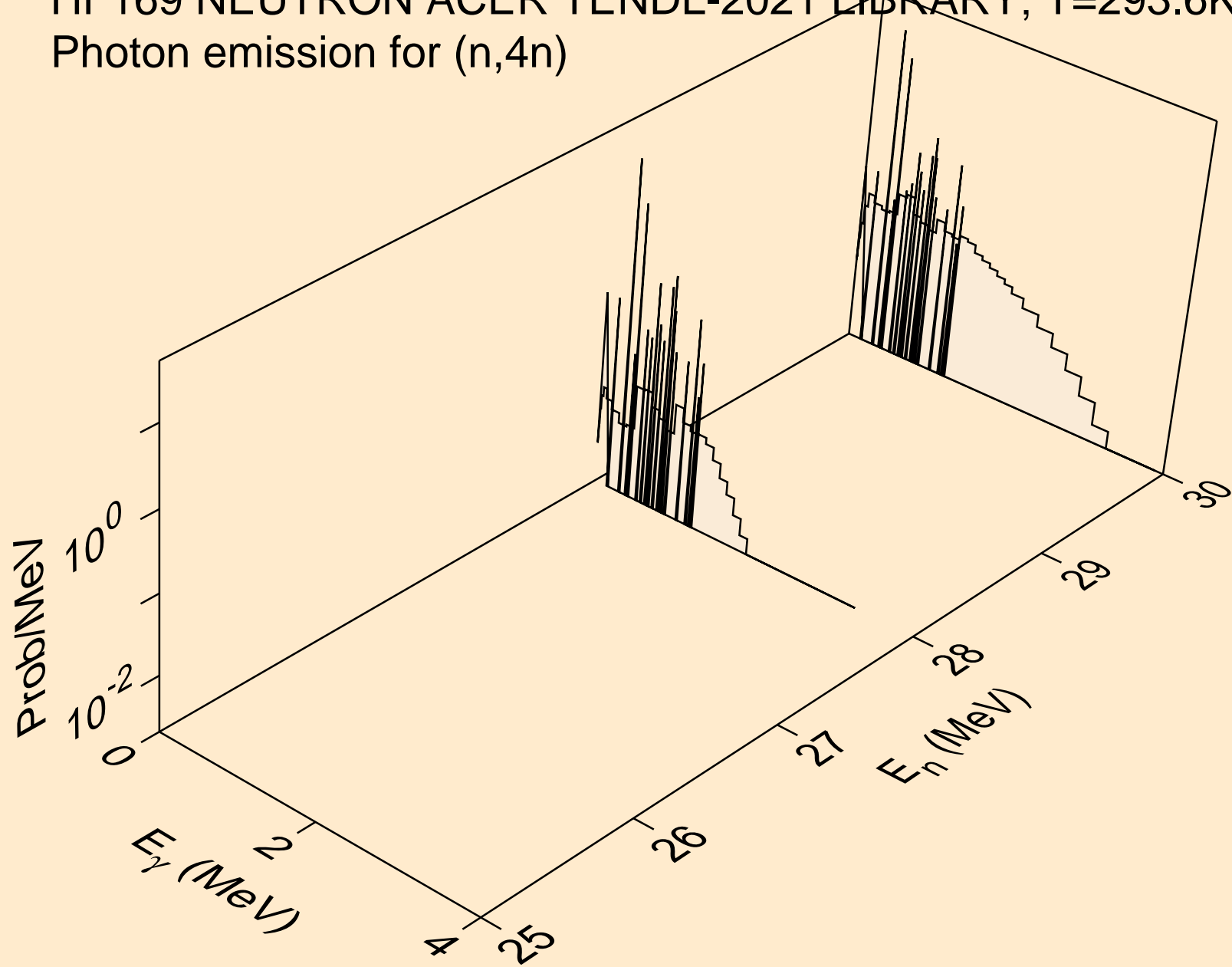
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Photon emission for (n,n\*)t



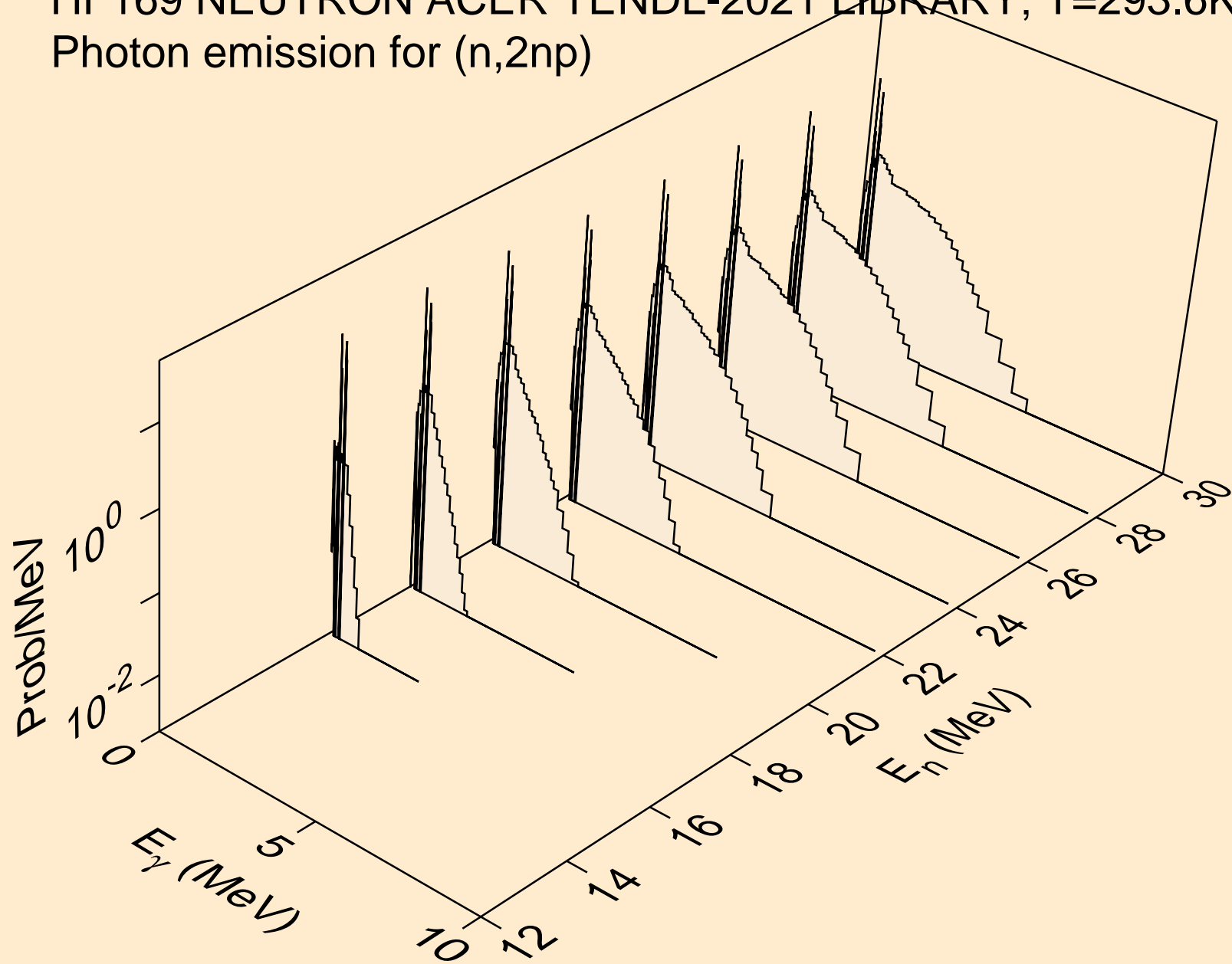
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



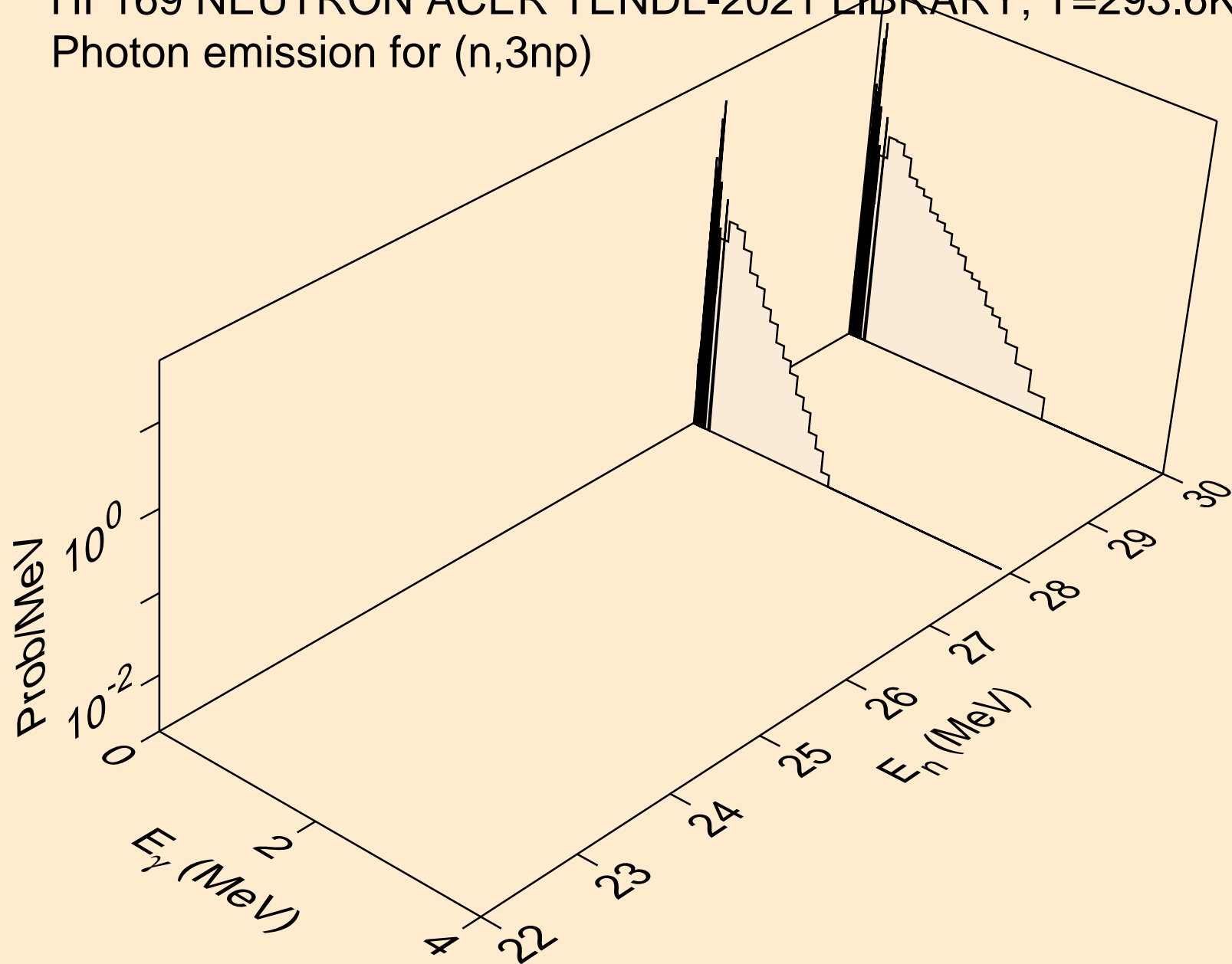
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)

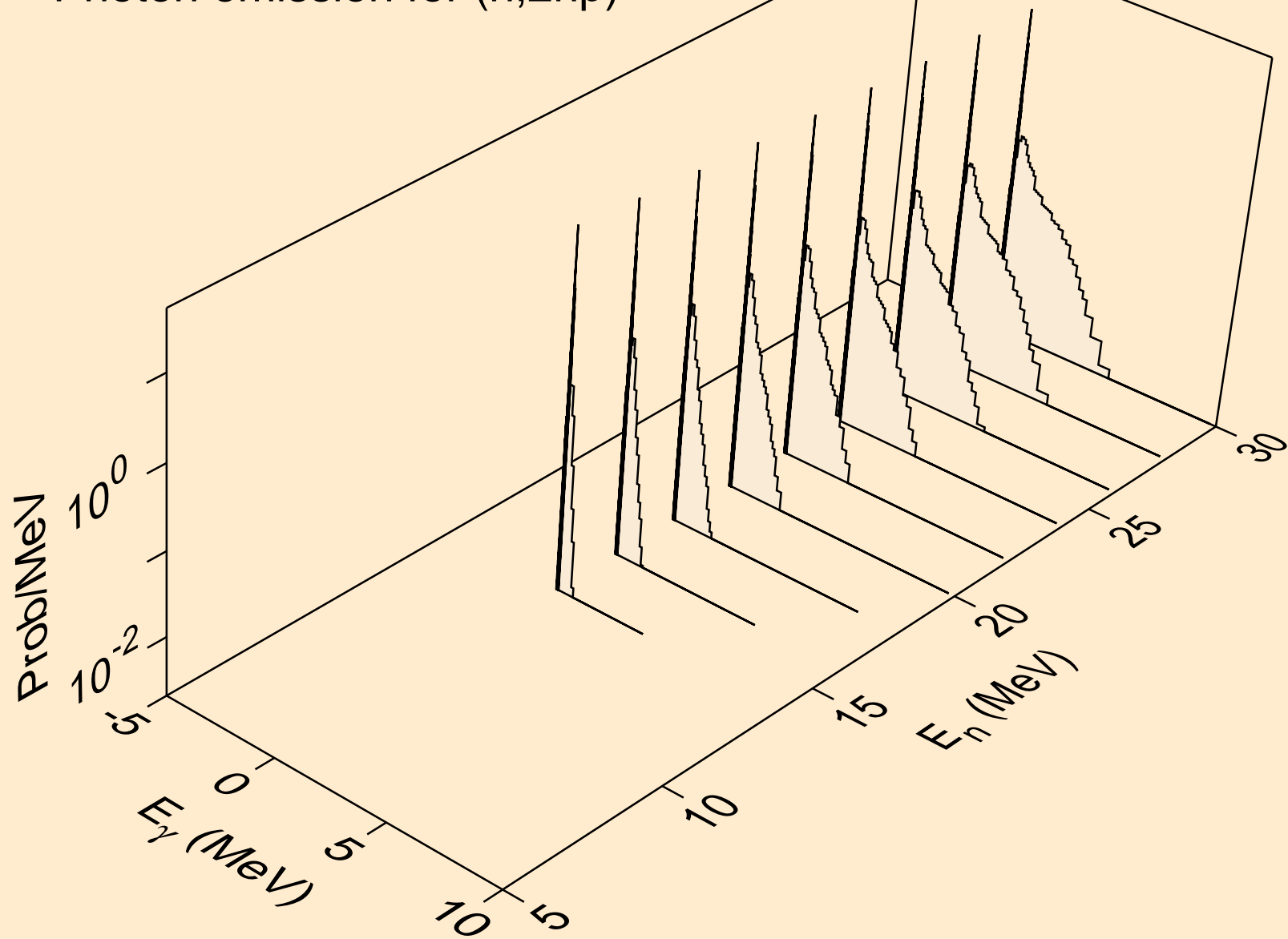


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)

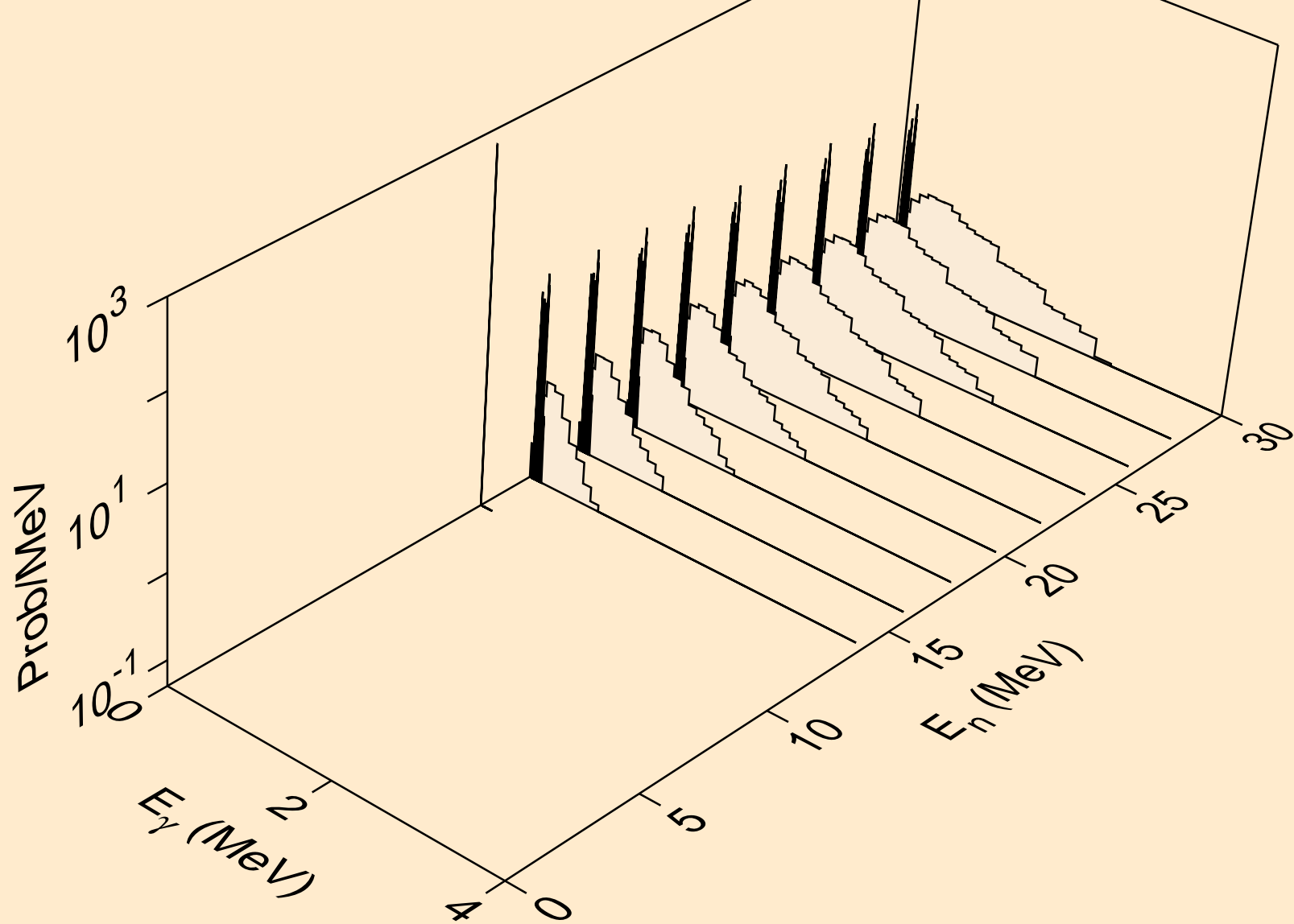




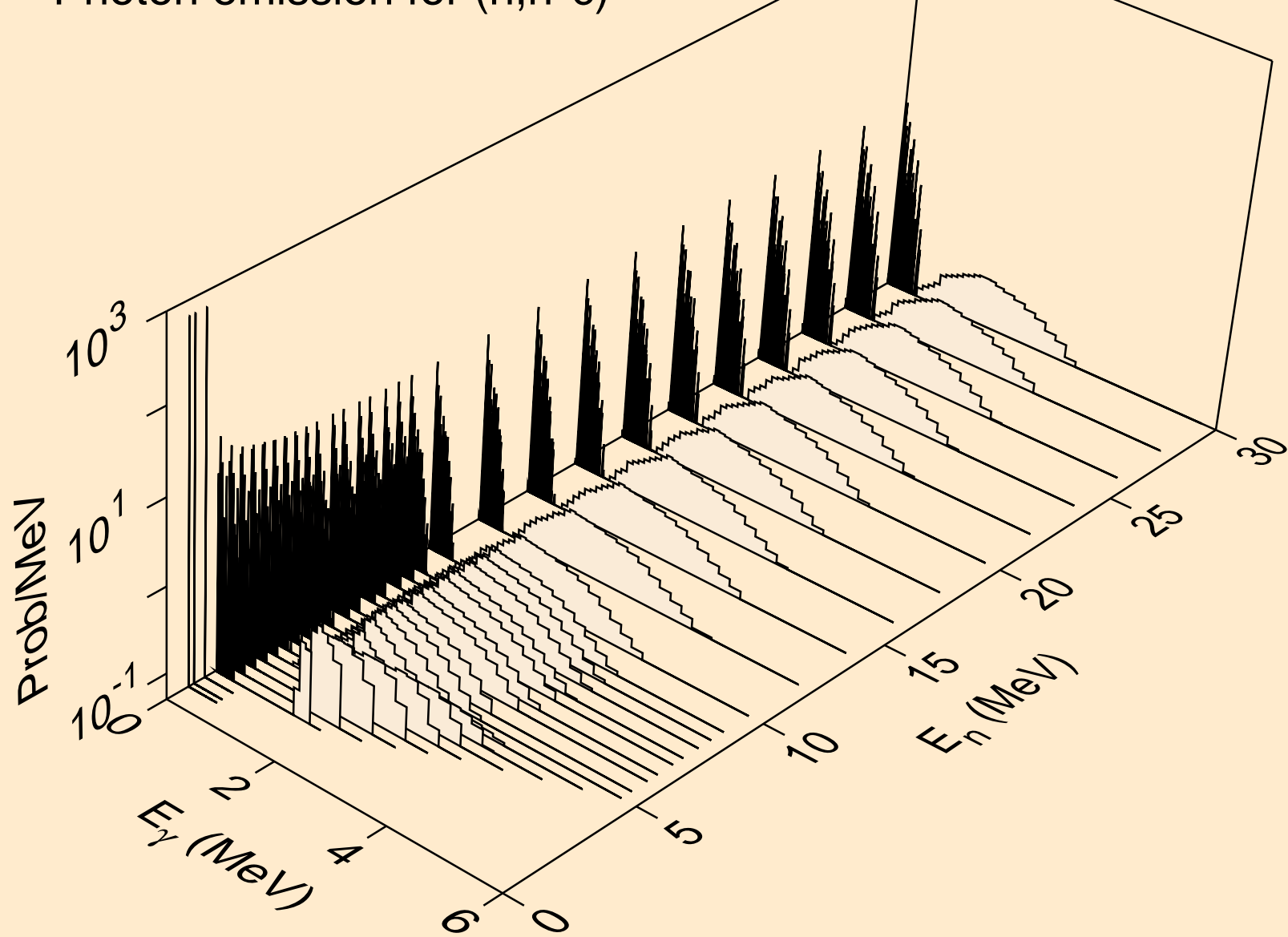
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Photon emission for (n,2np)



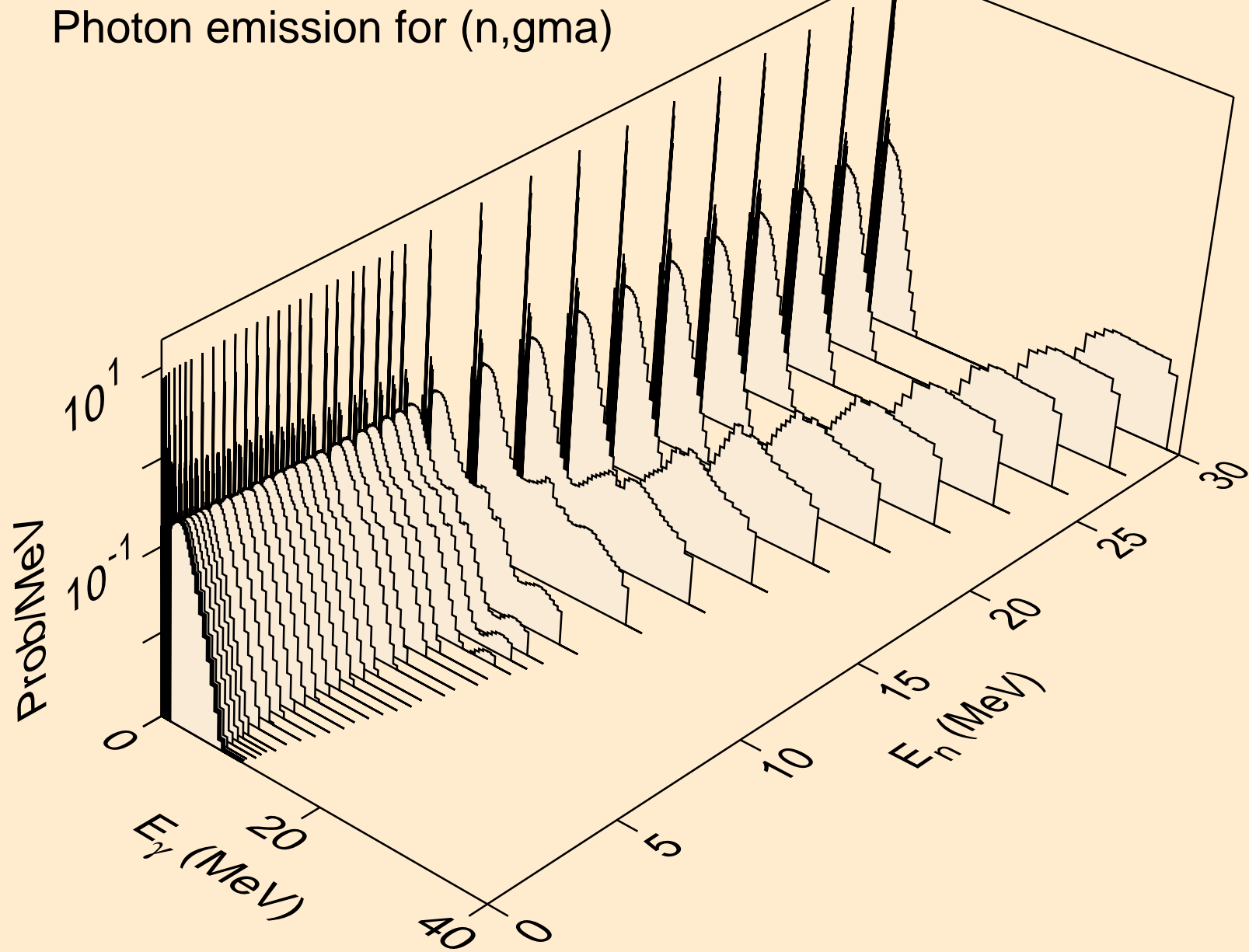
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Photon emission for (n,npa)



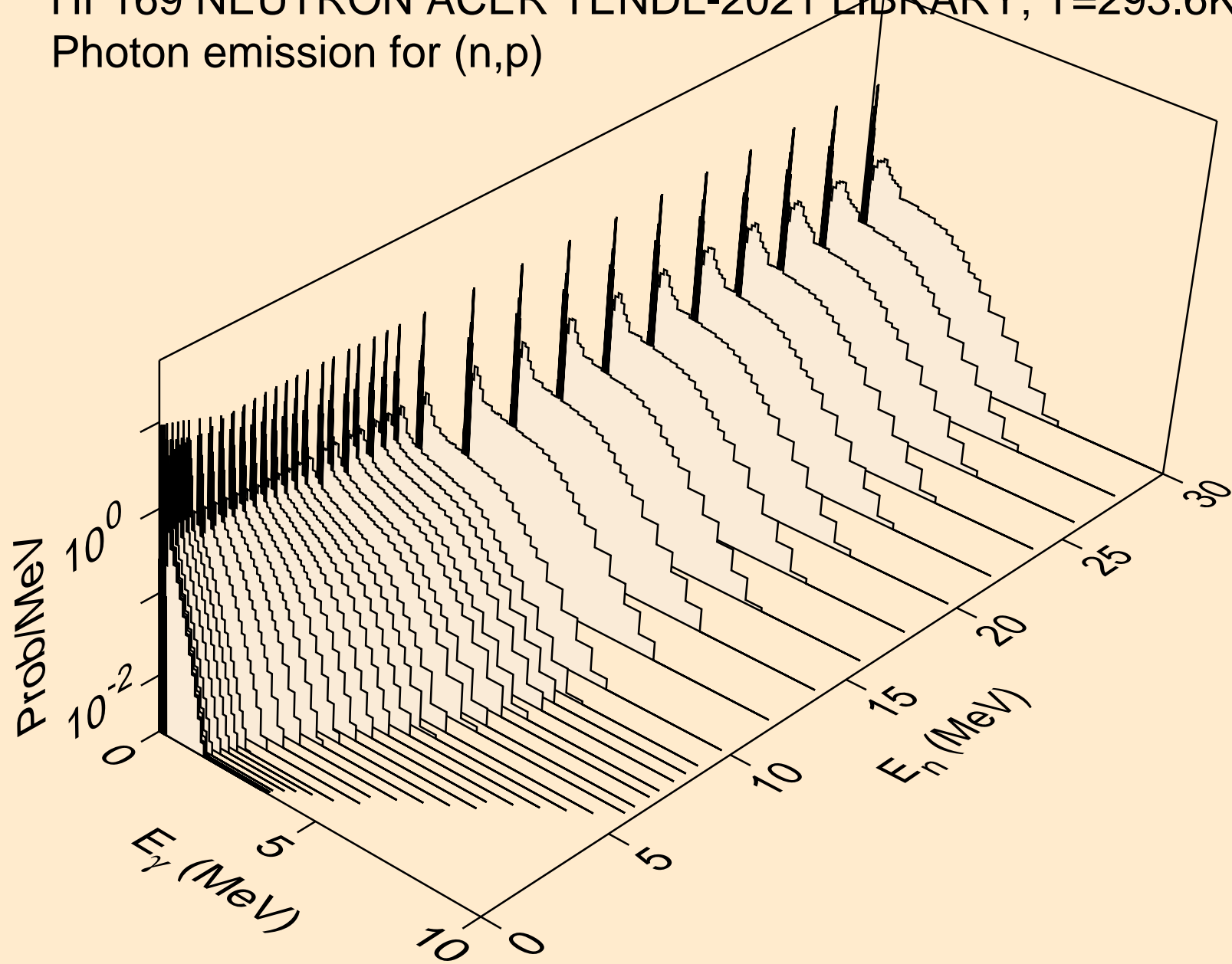
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Photon emission for (n,n\*c)



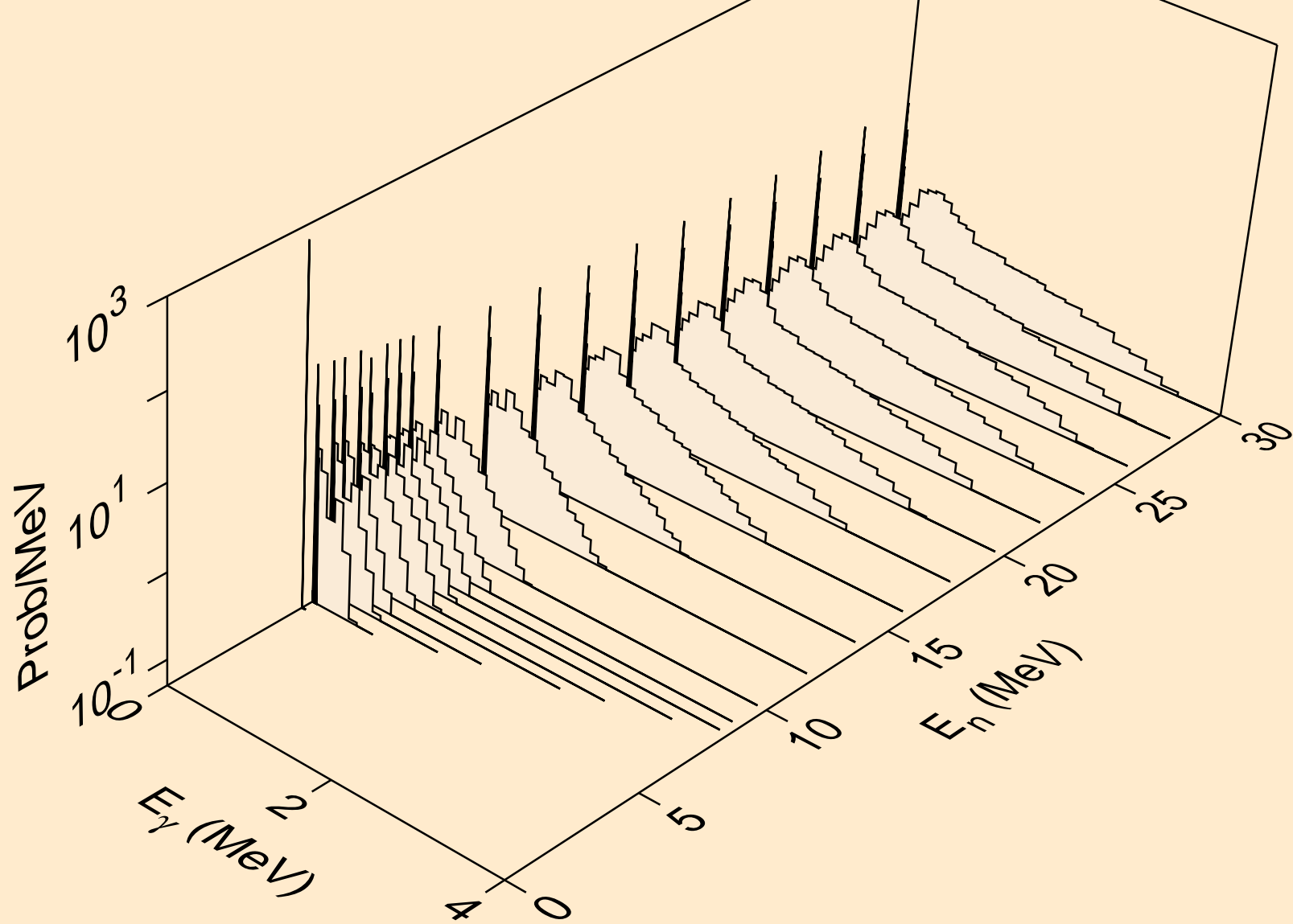
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Photon emission for (n,gma)



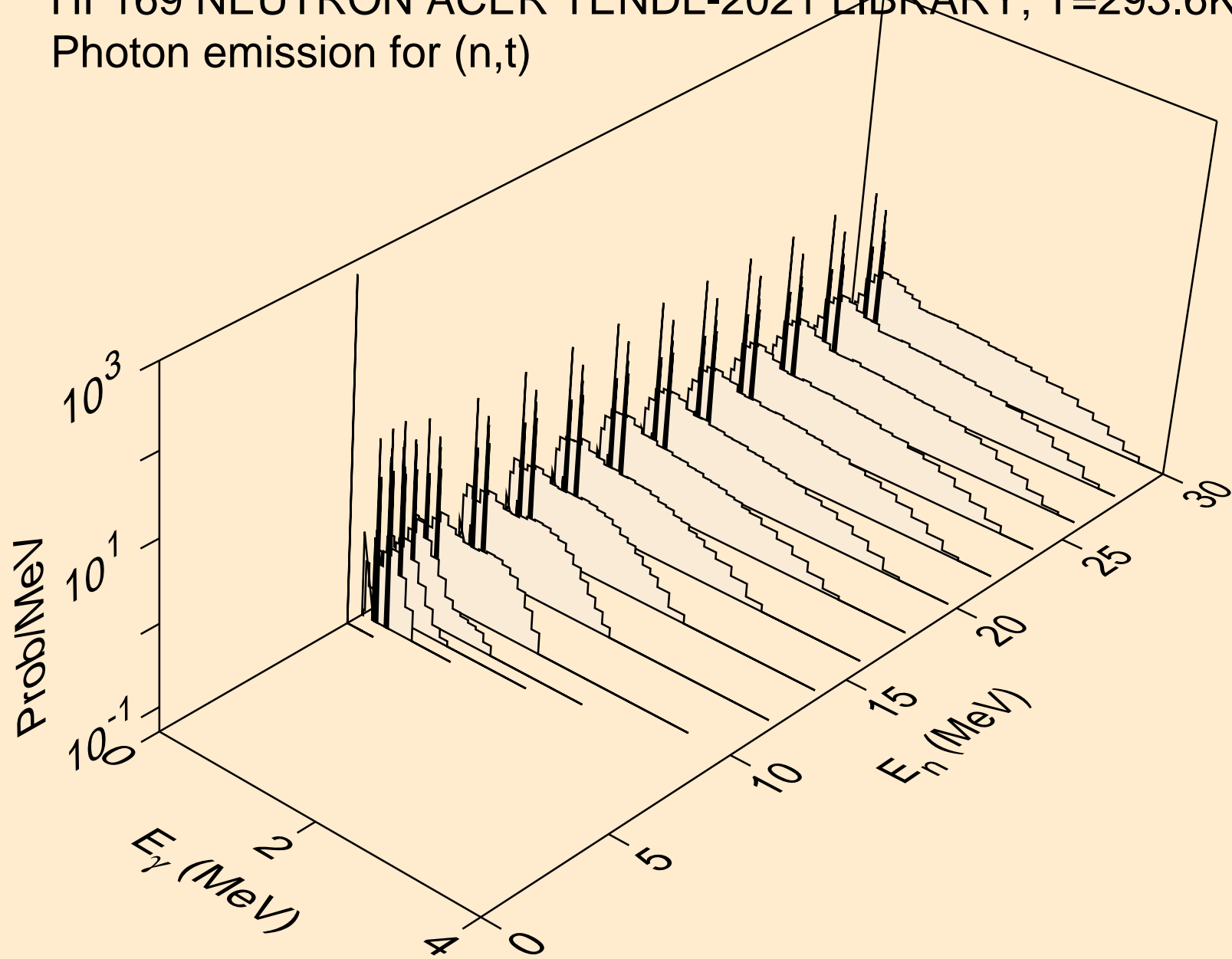
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



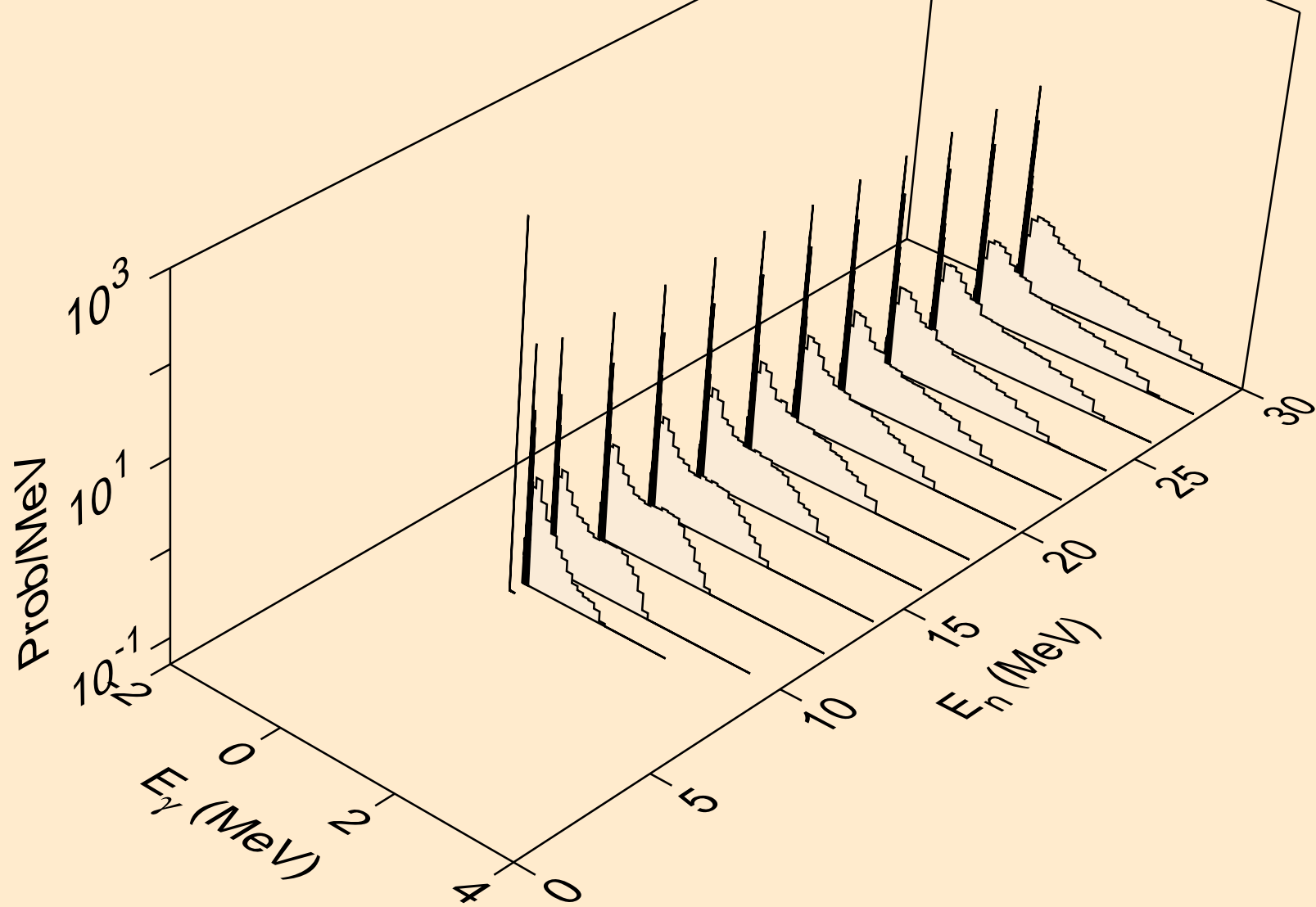
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)

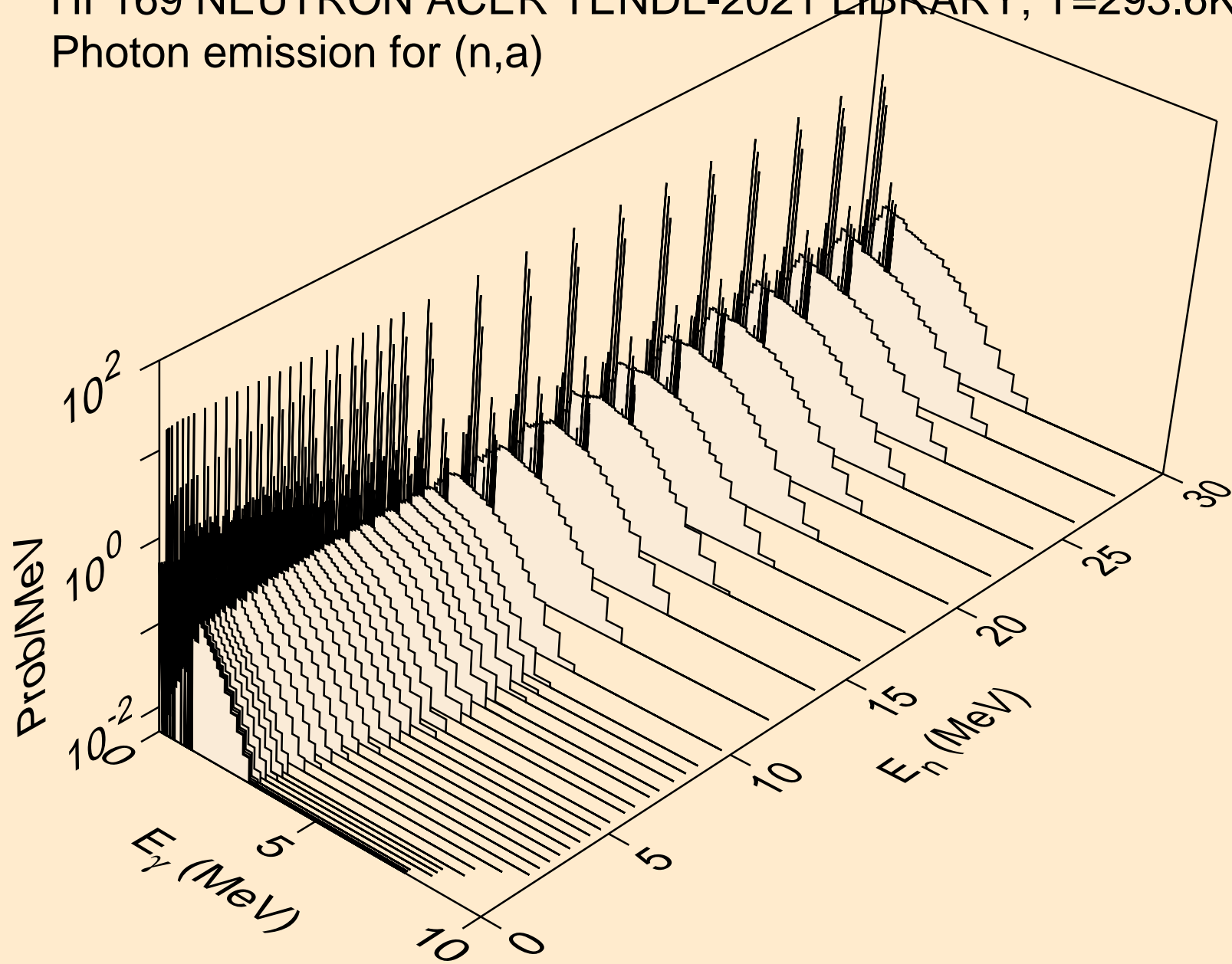


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)

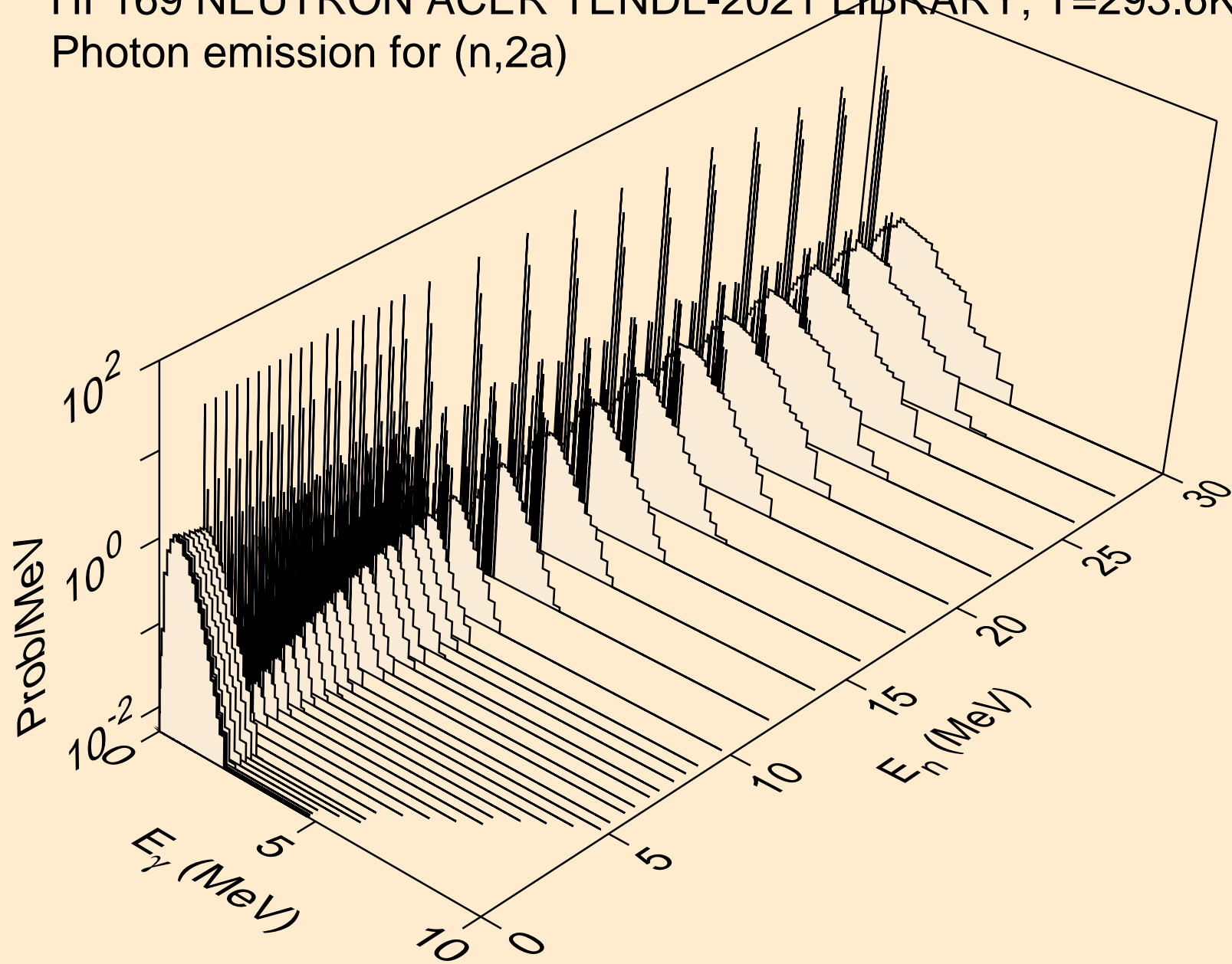




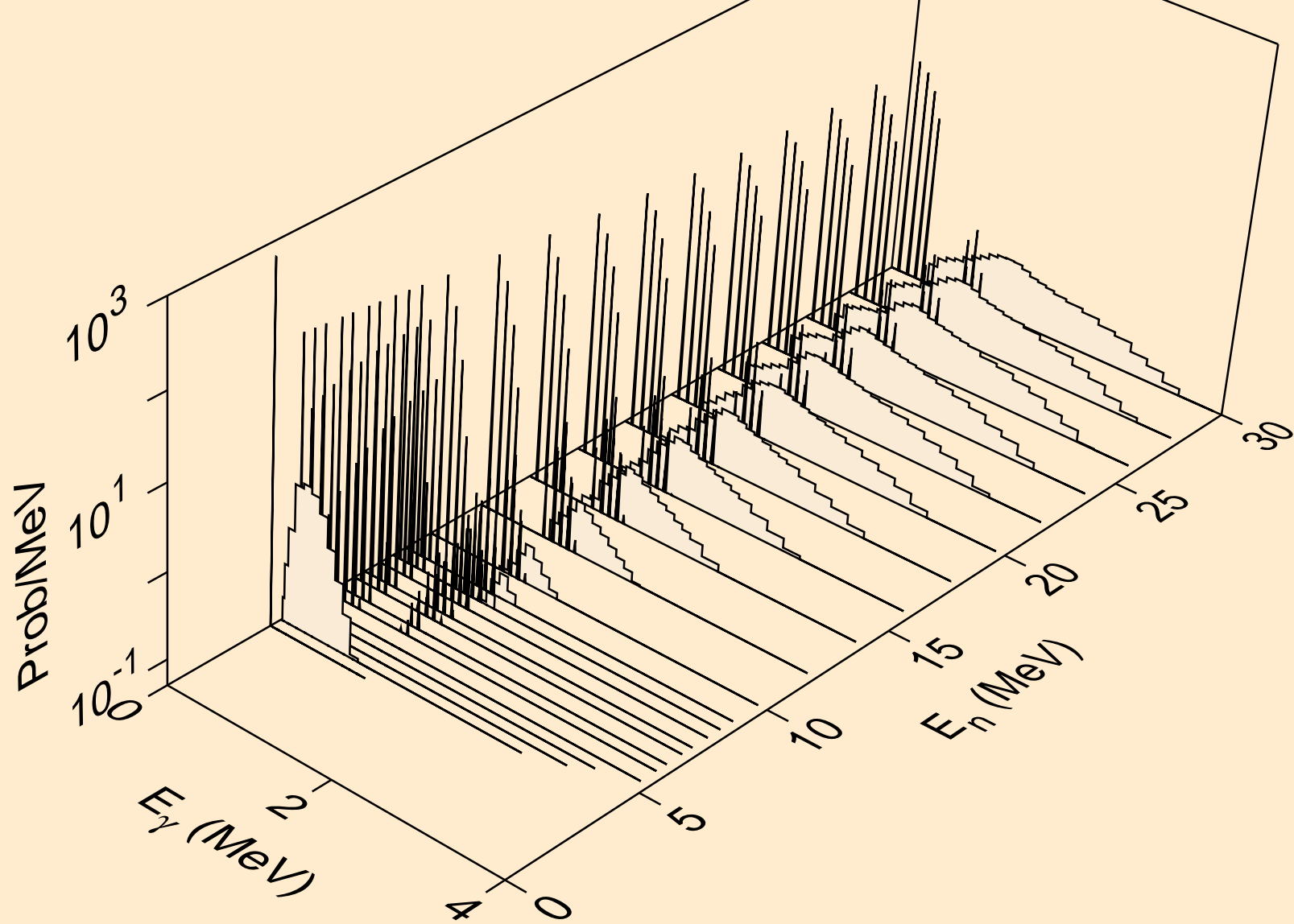
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Photon emission for (n,a)



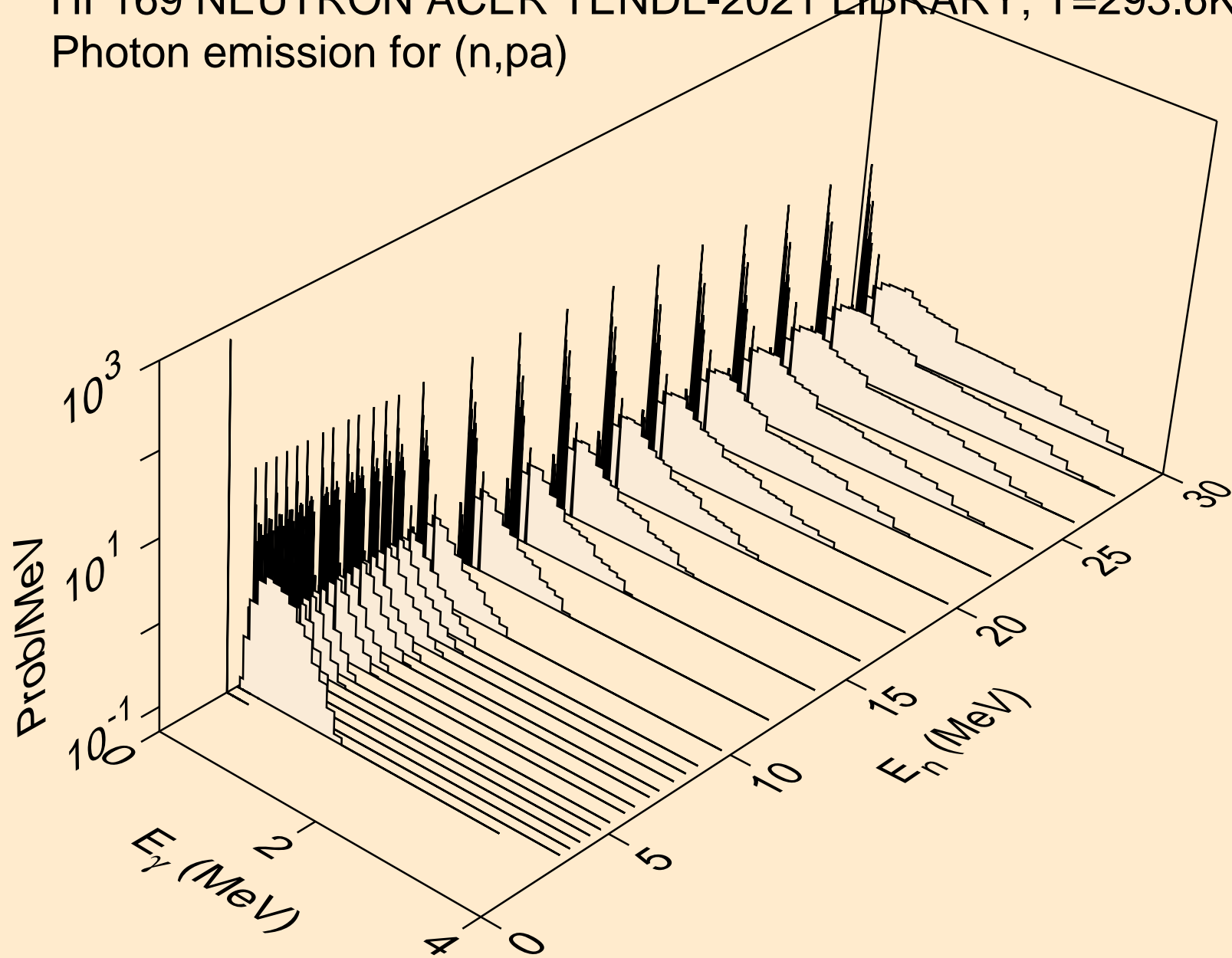
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Photon emission for (n,2a)



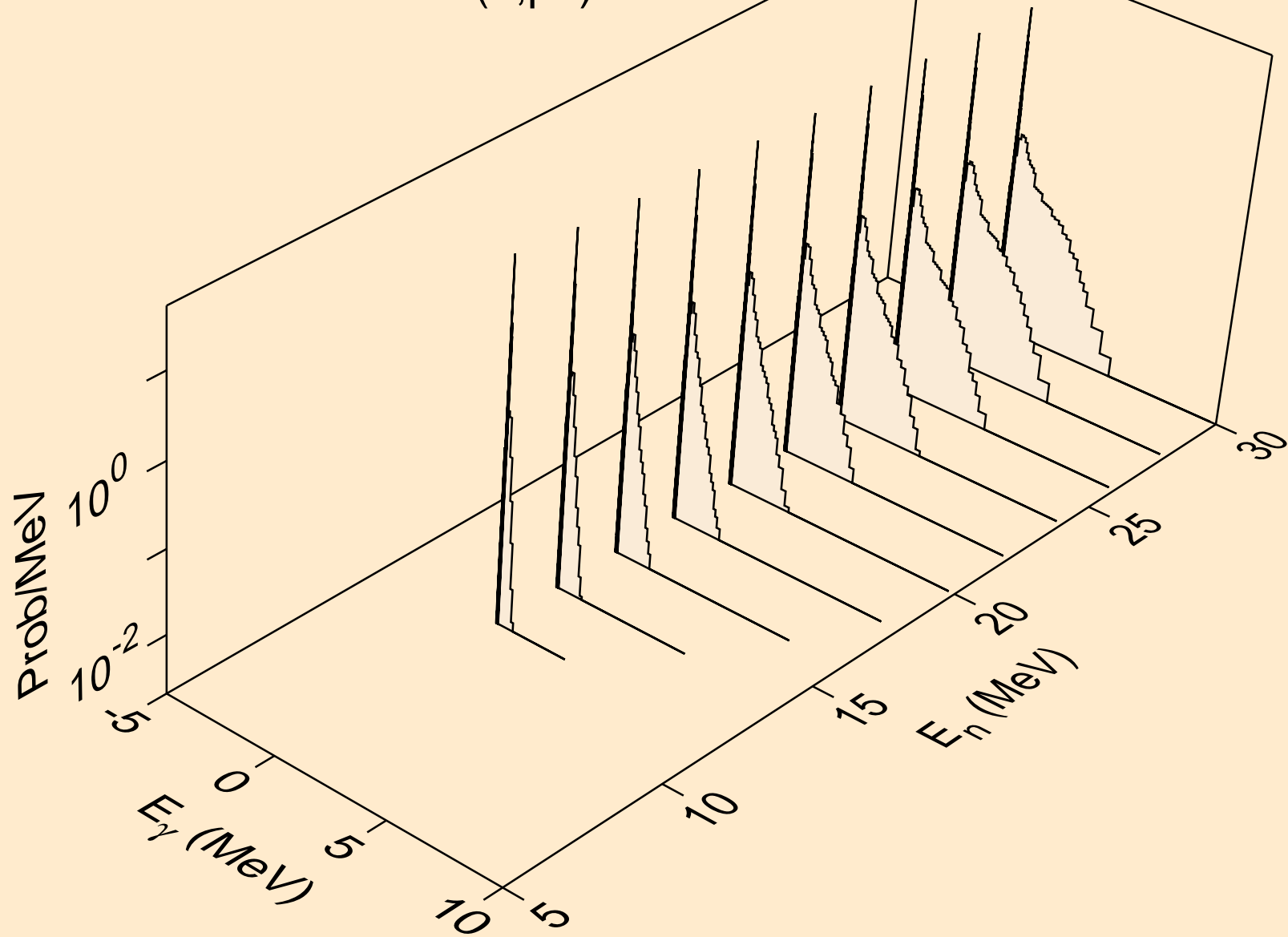
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Photon emission for (n,2p)



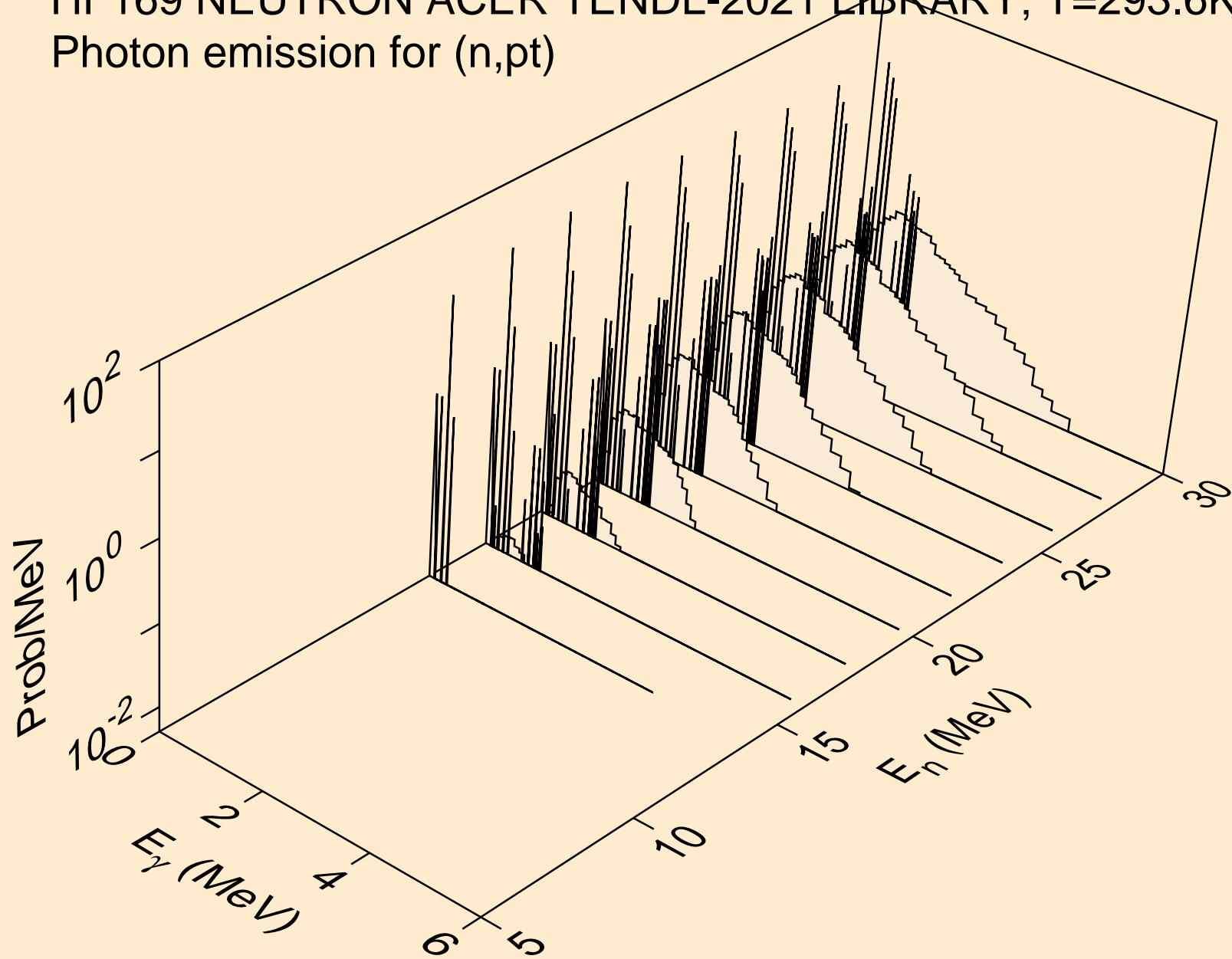
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Photon emission for (n,p $\alpha$ )



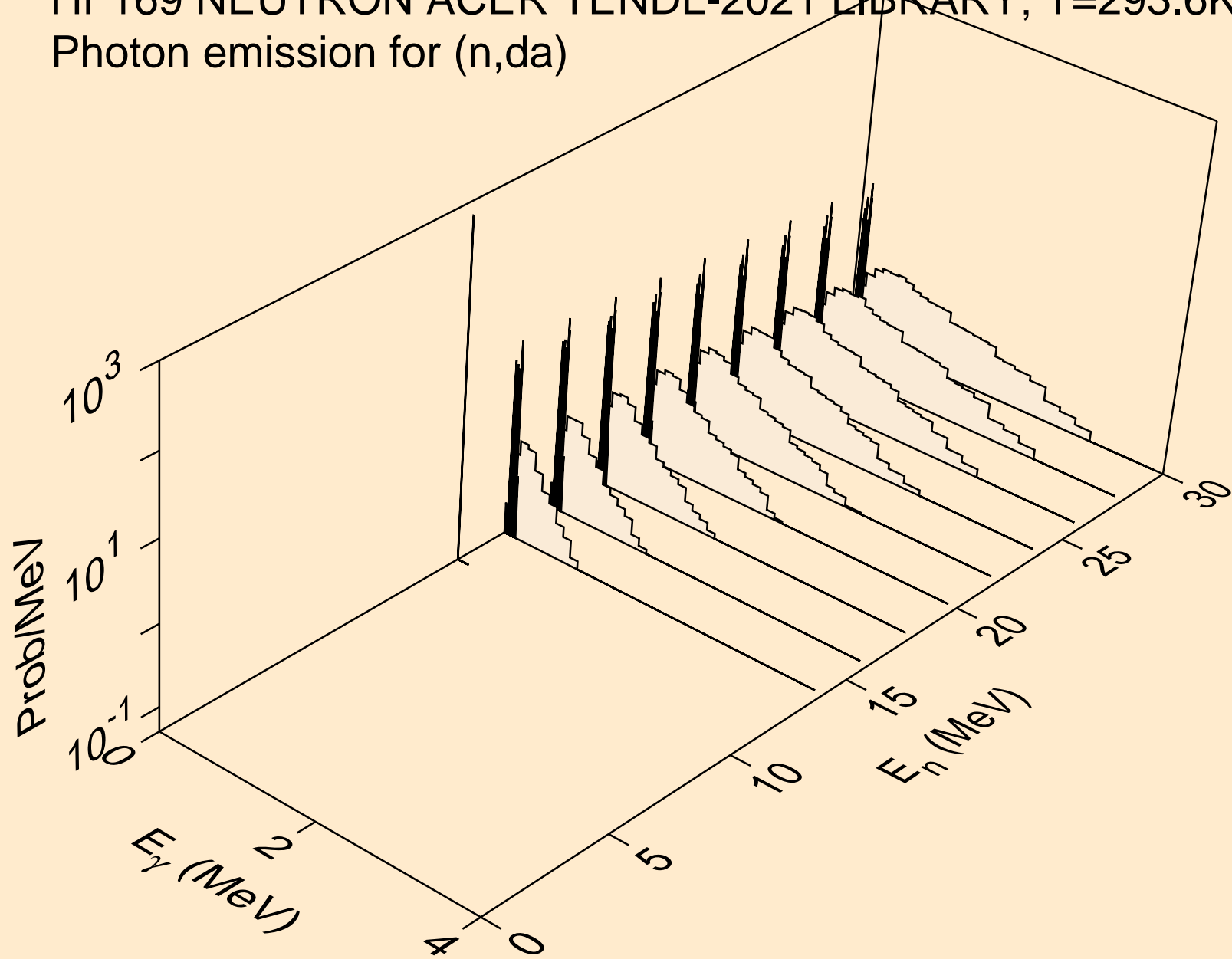
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Photon emission for (n,pd)



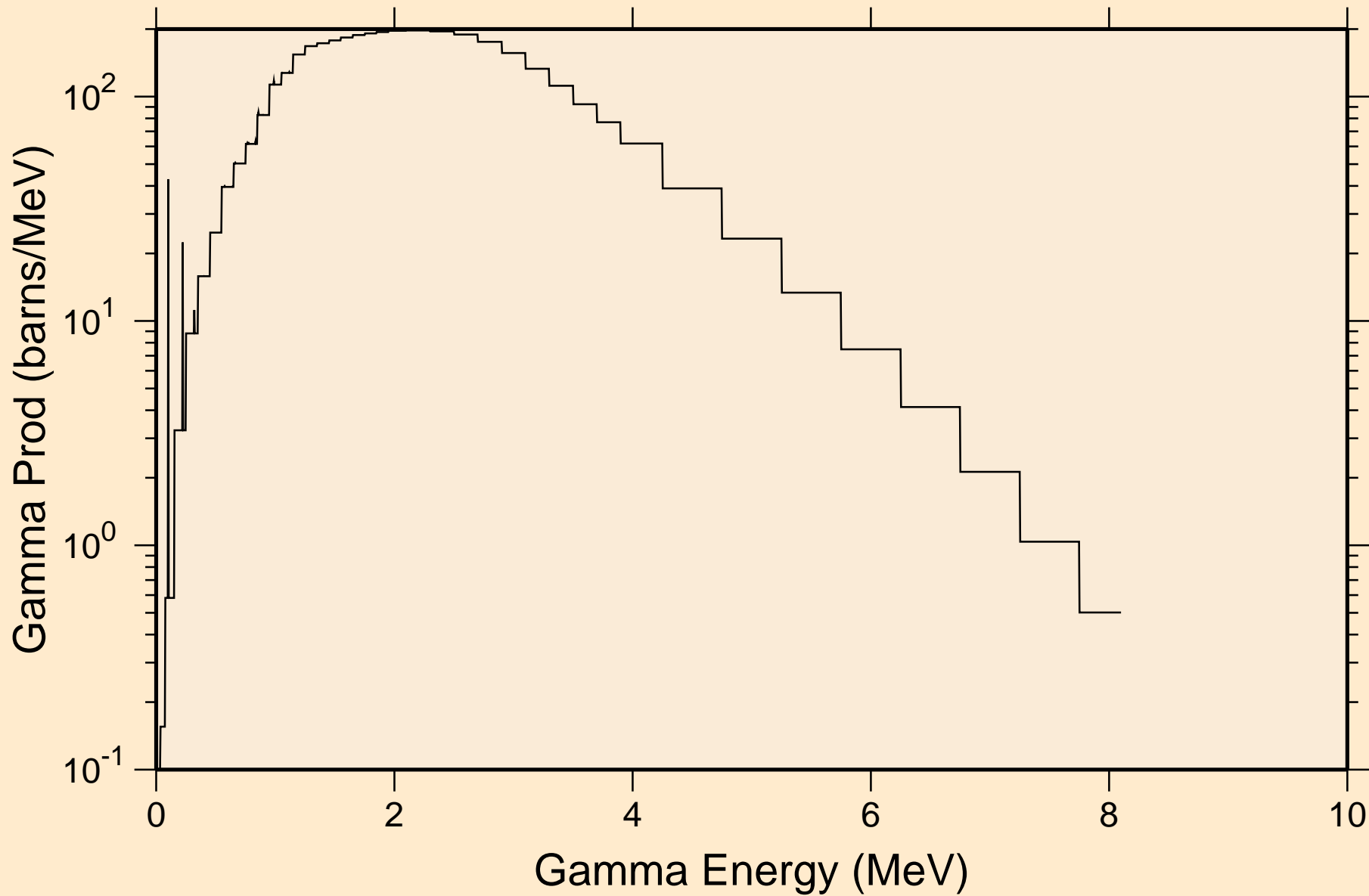
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)

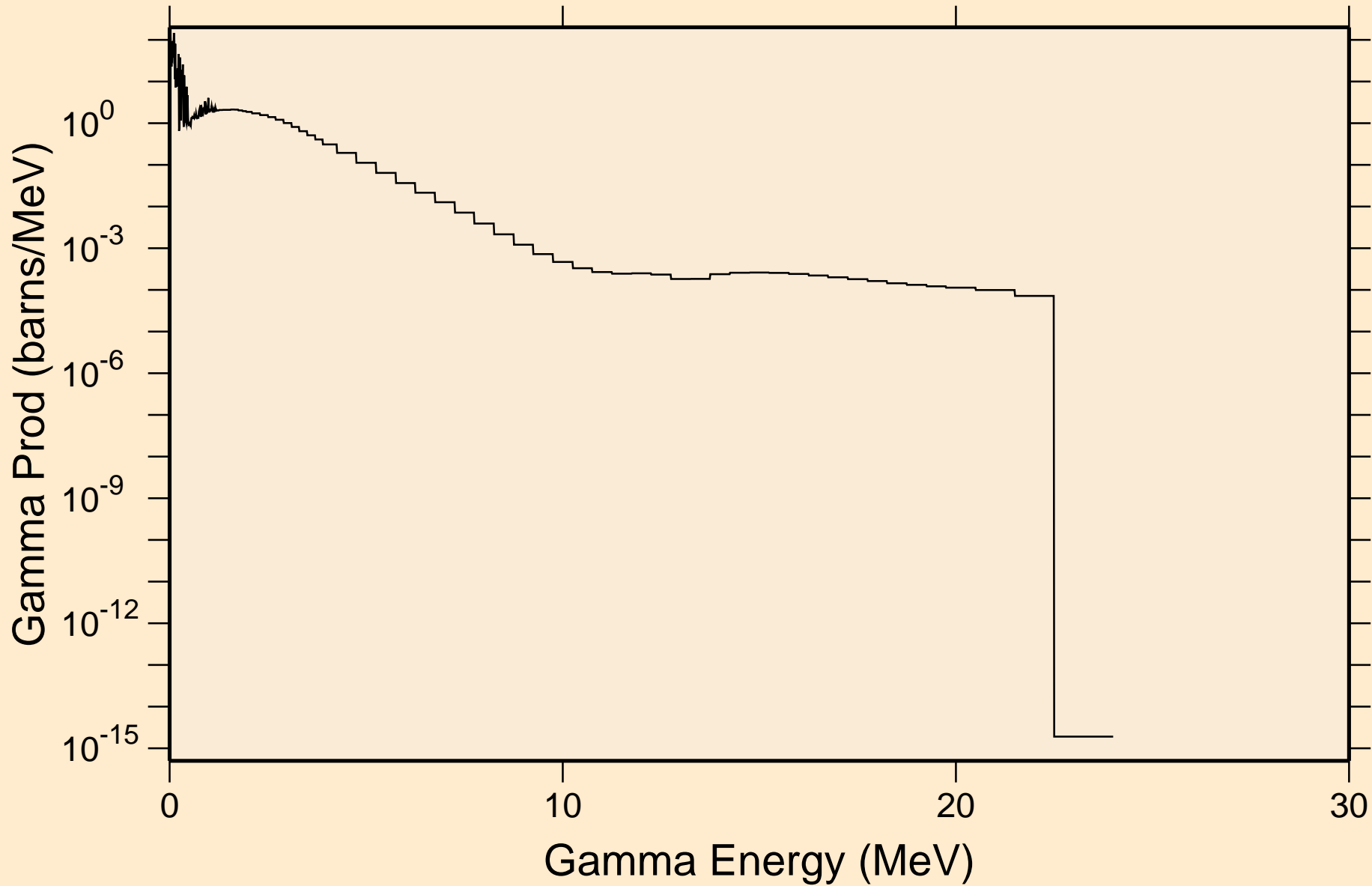


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum



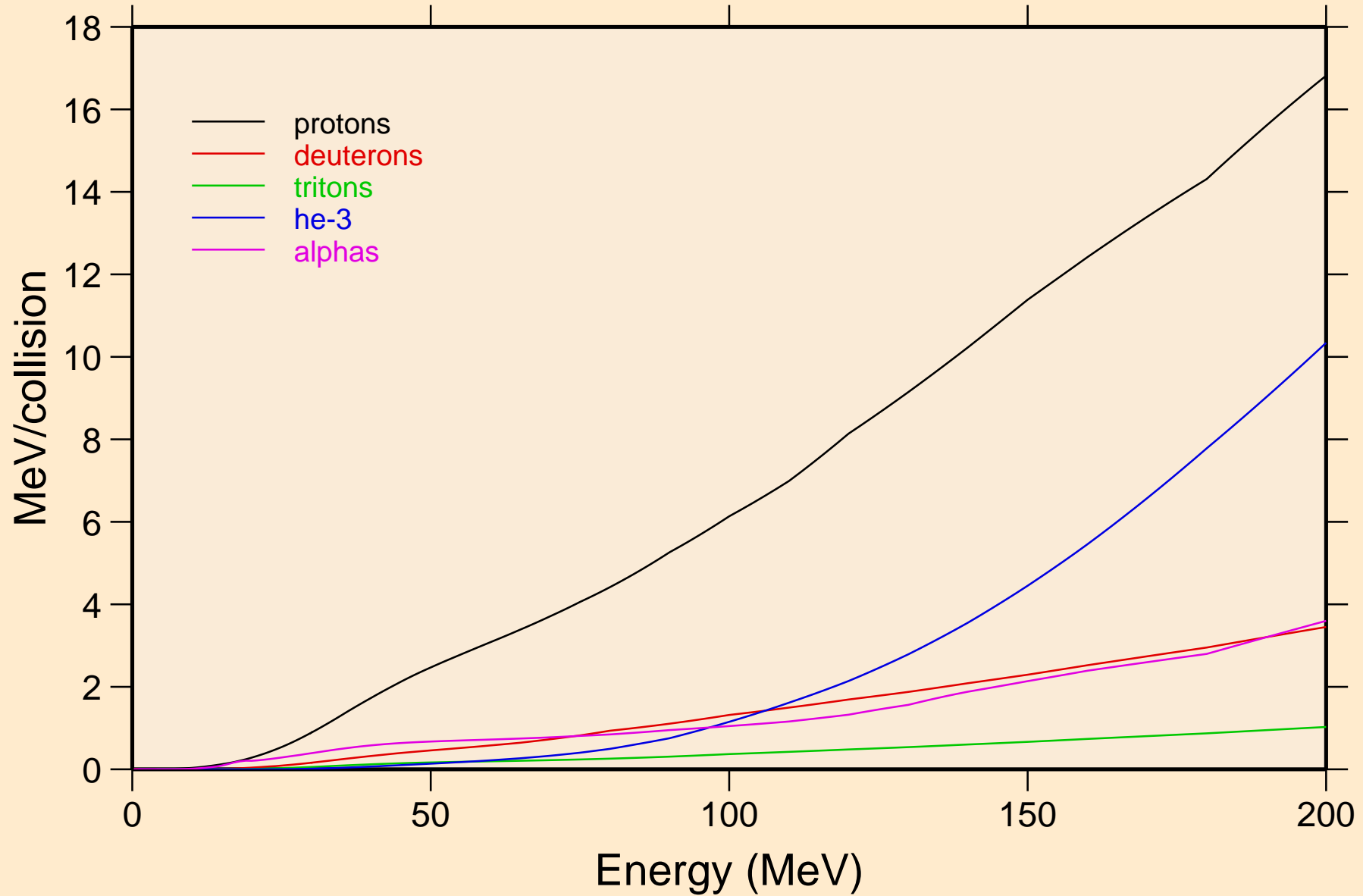


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum

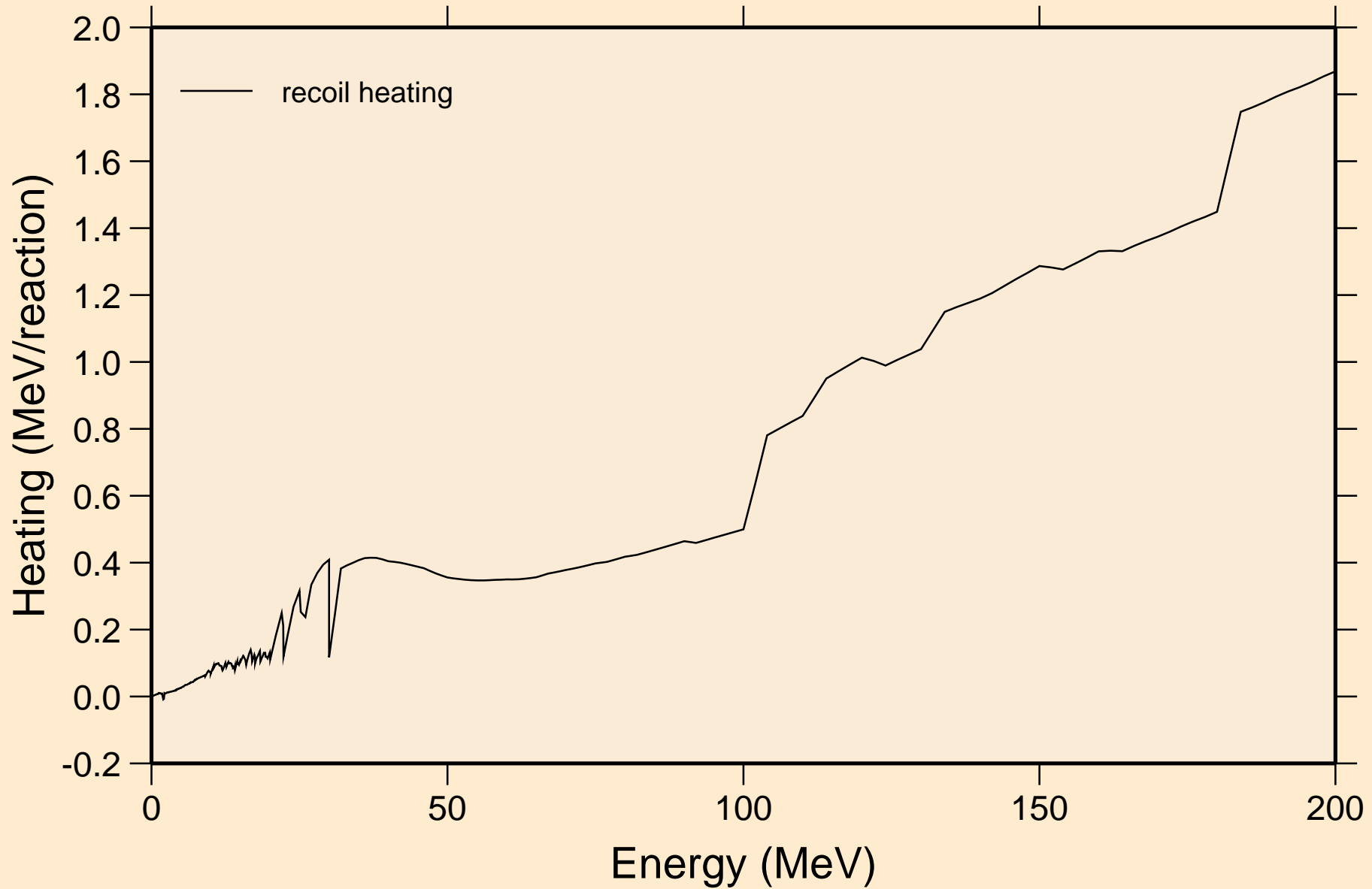


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Particle heating contributions

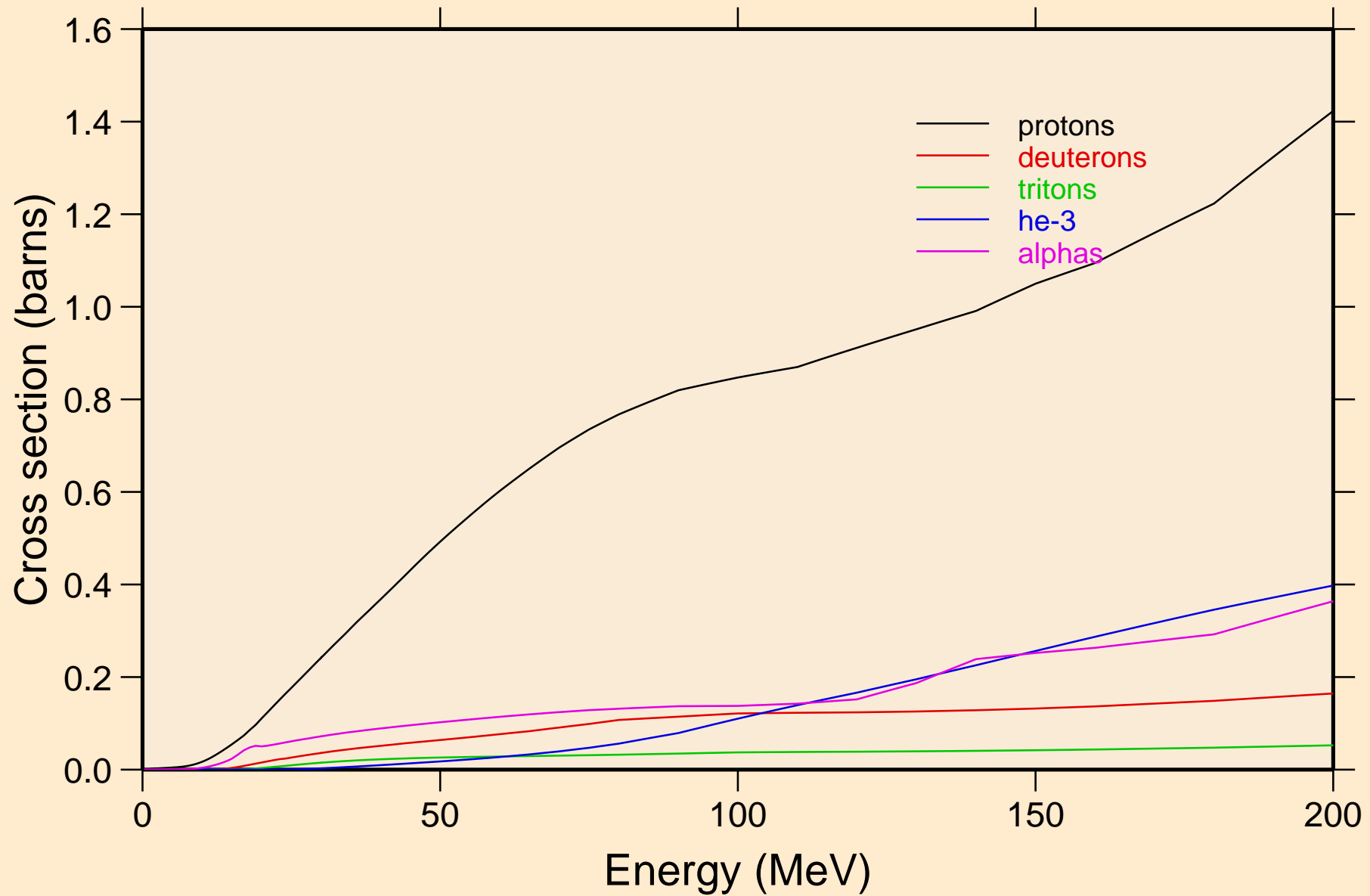


HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

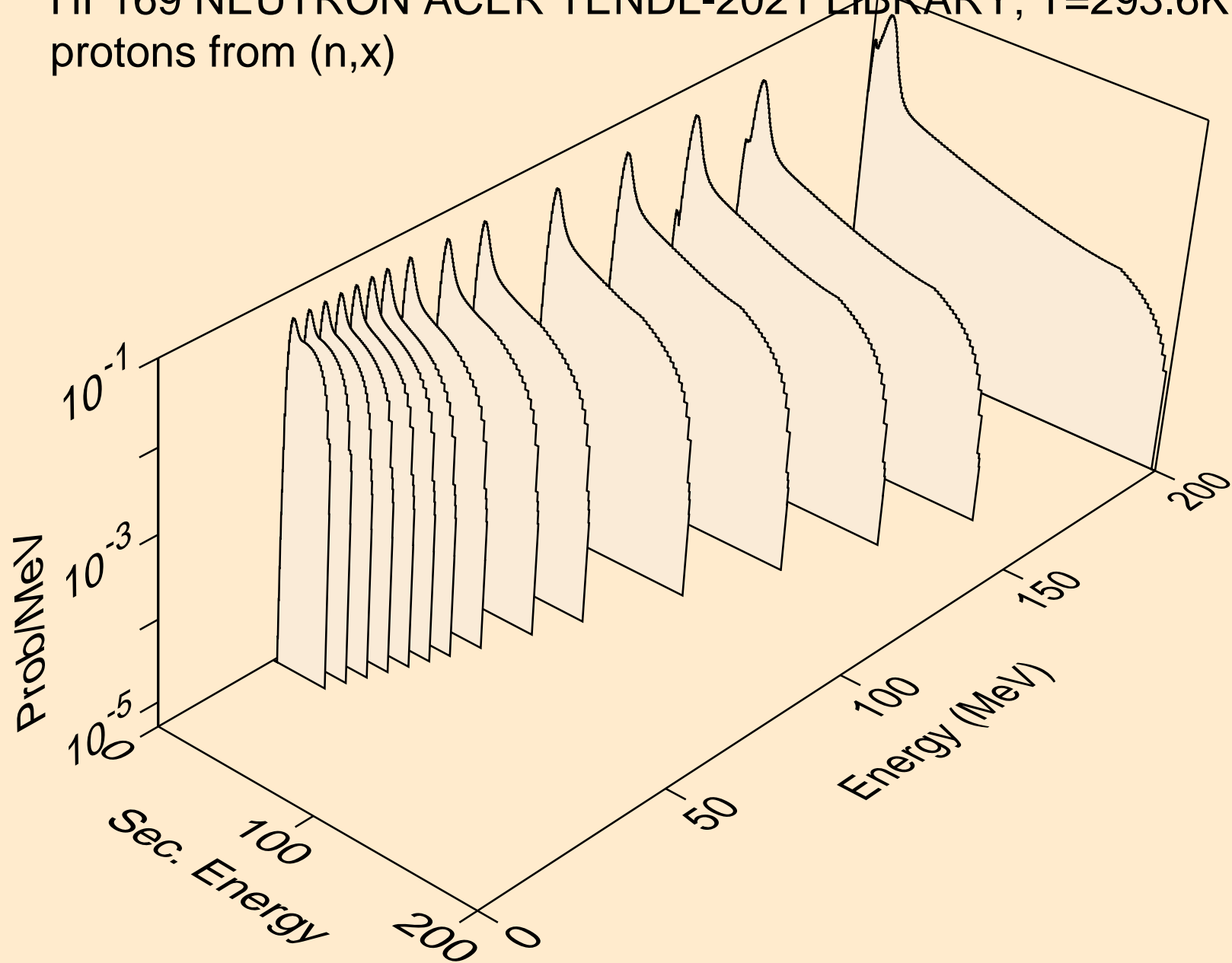


# HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

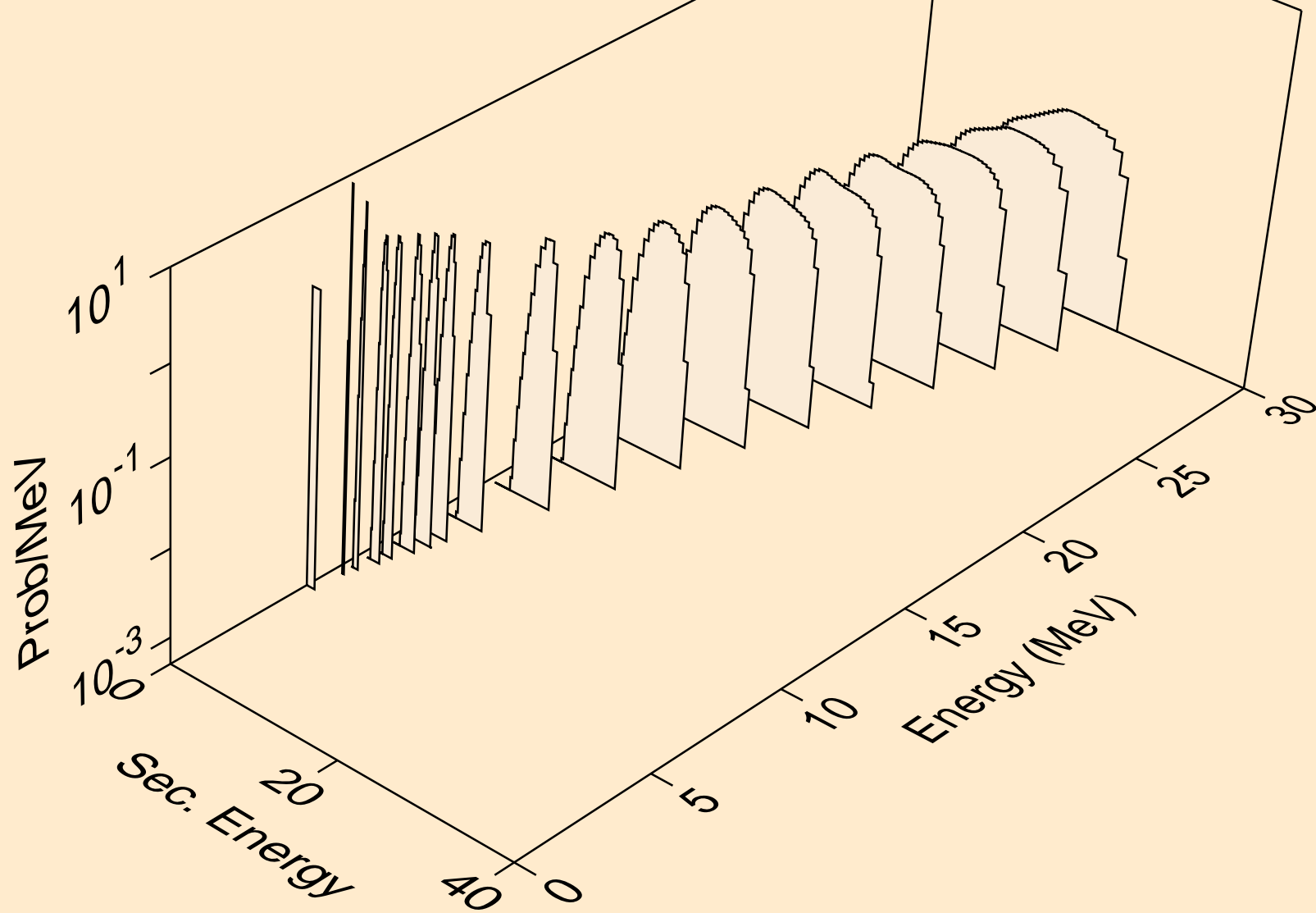
## Particle production cross sections



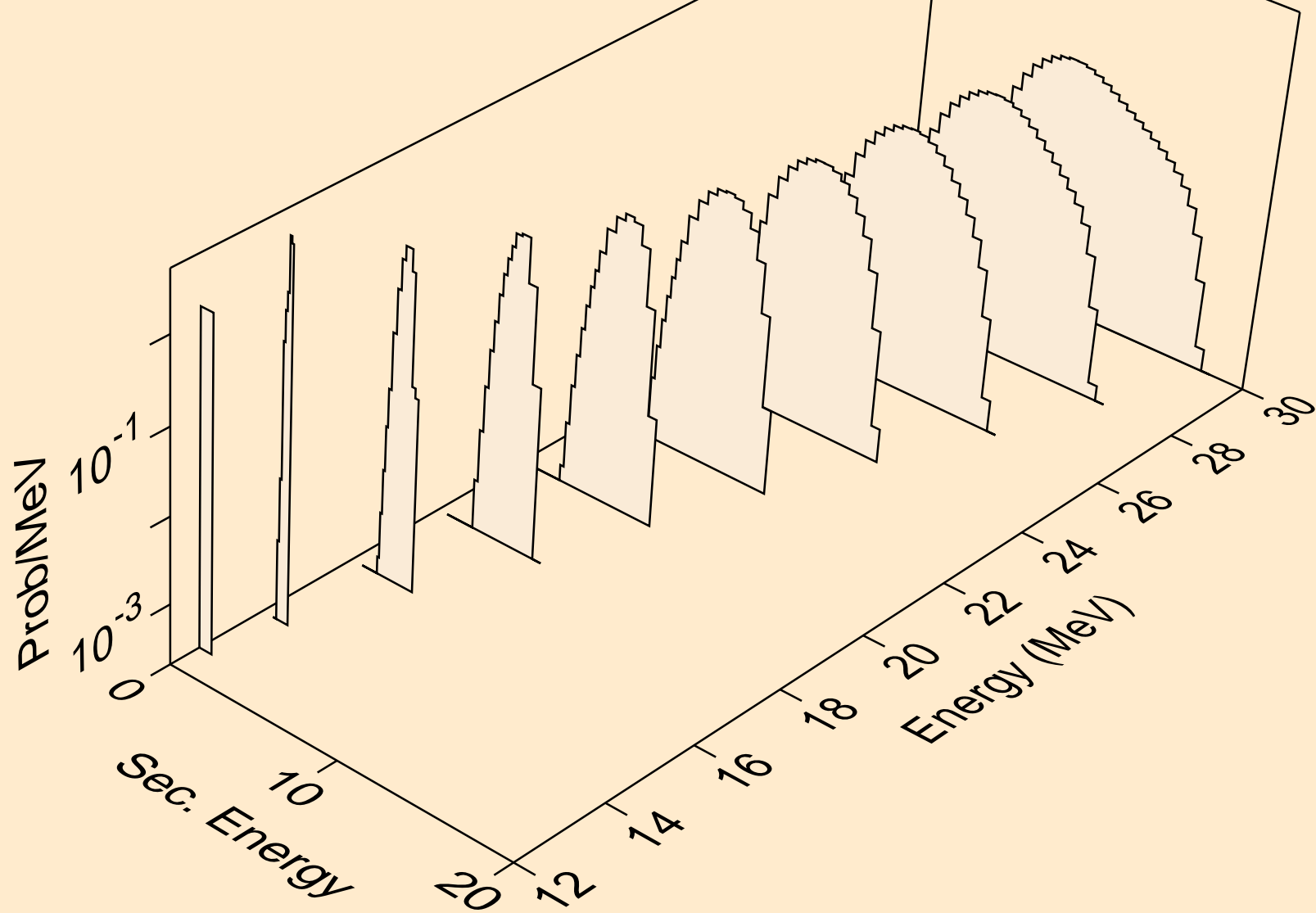
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protons from (n,x)



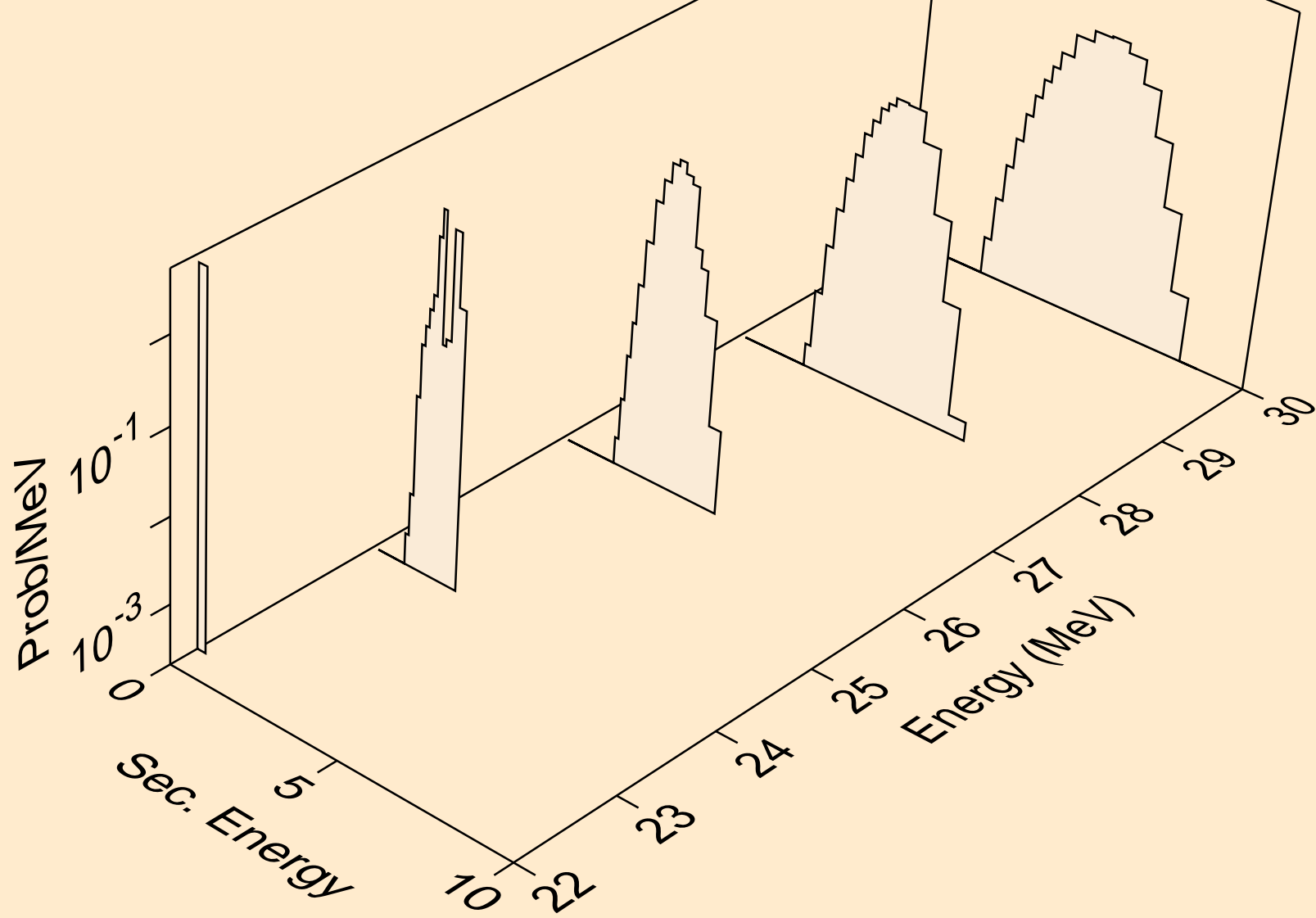
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)

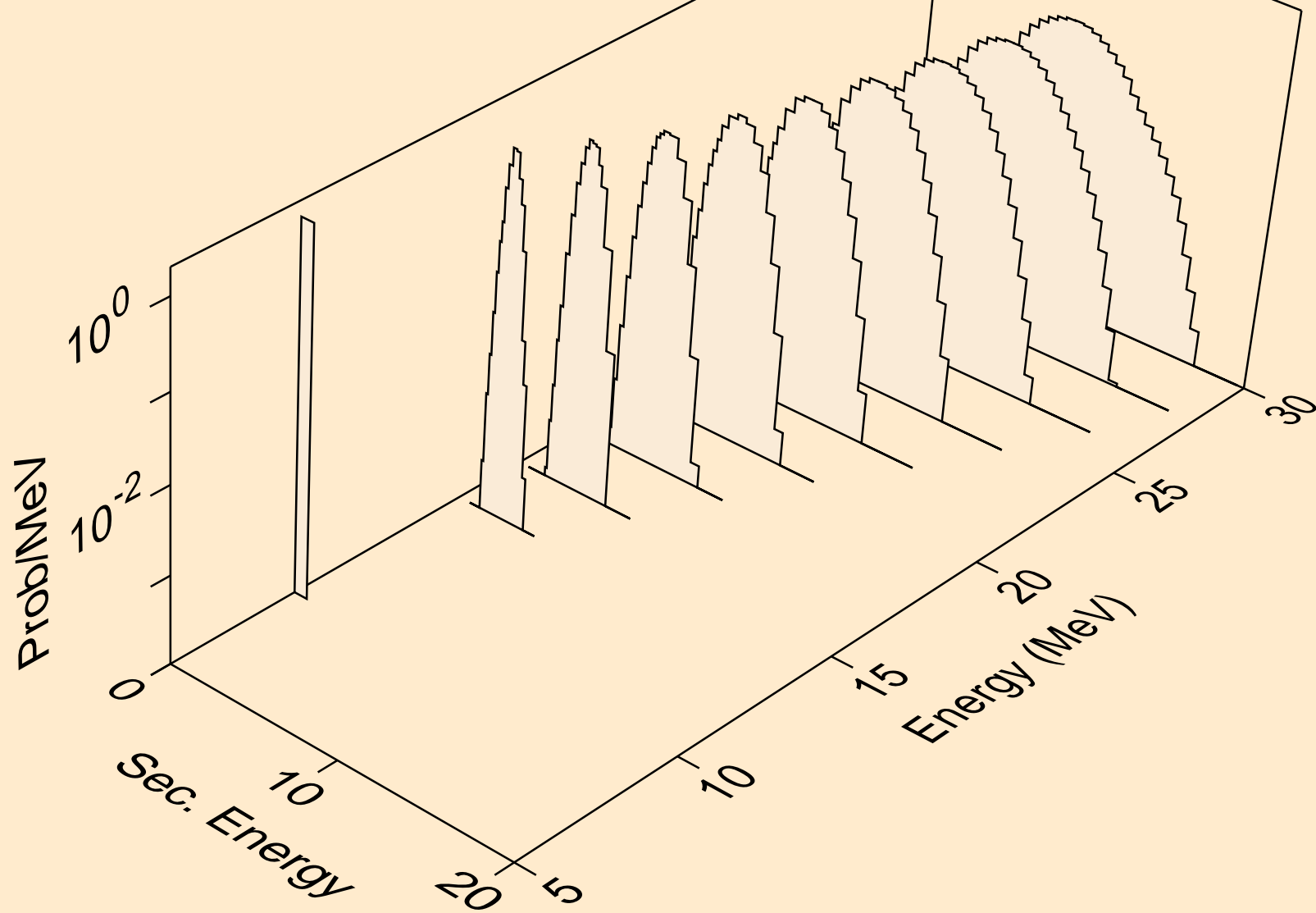


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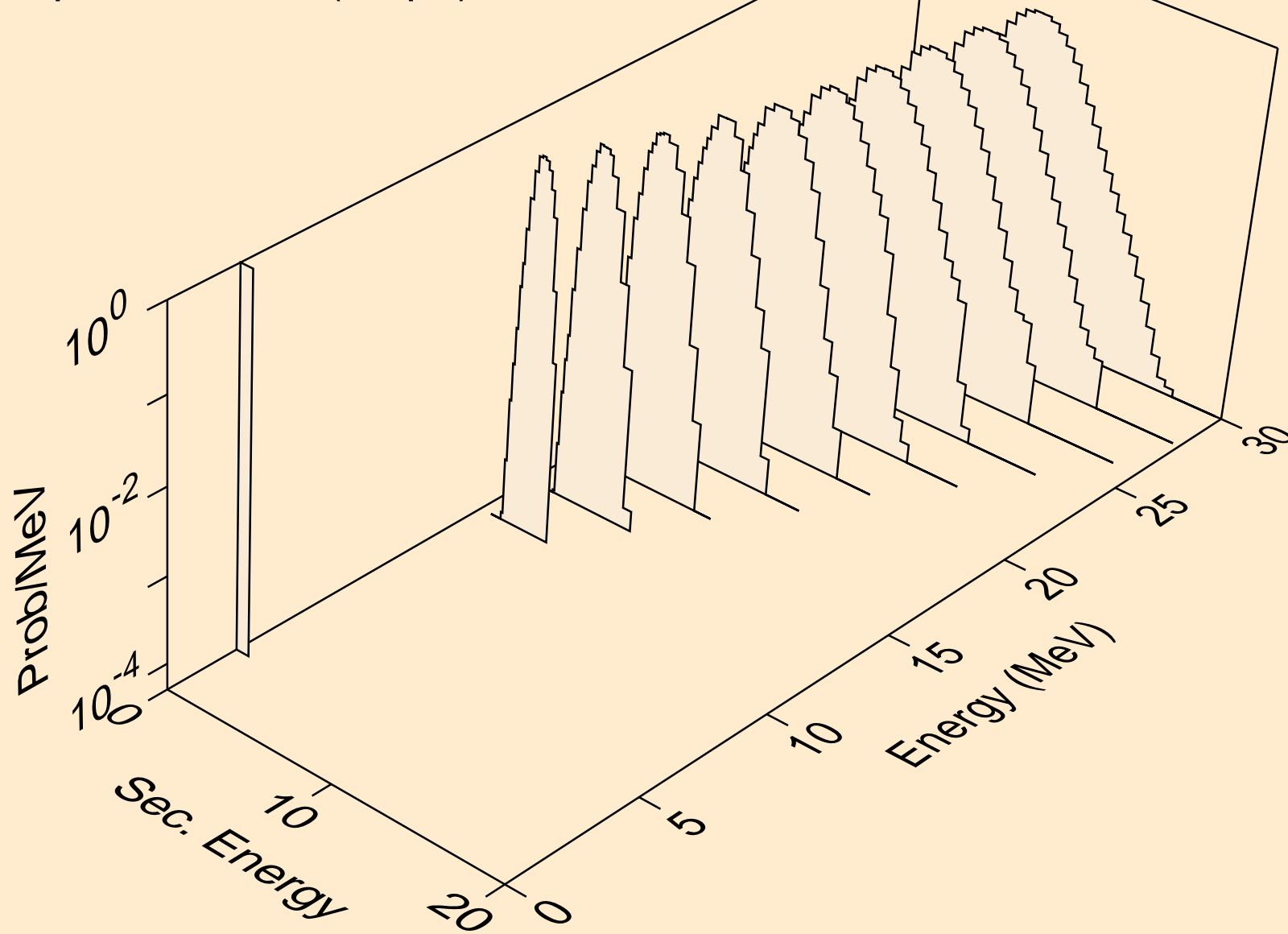




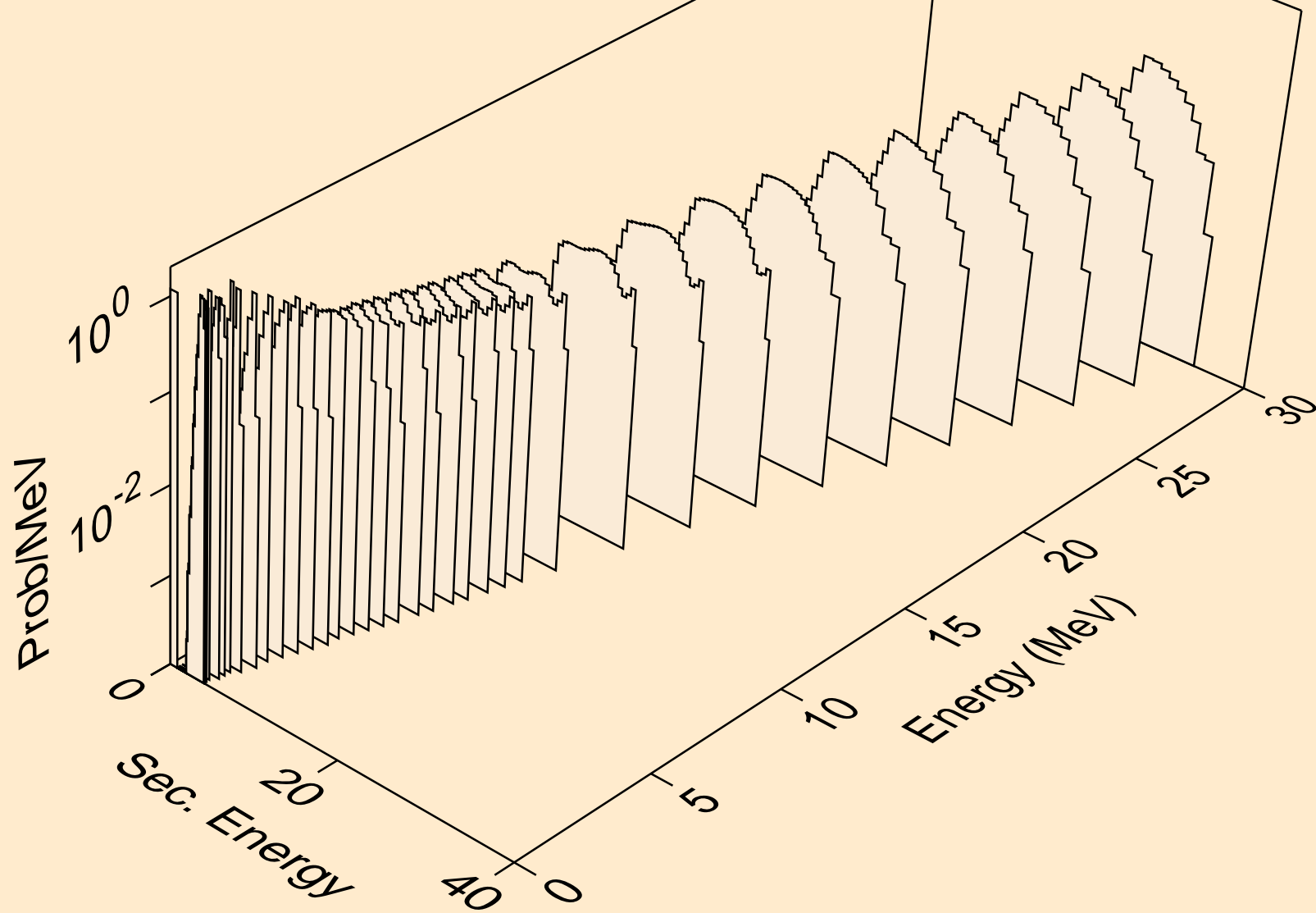
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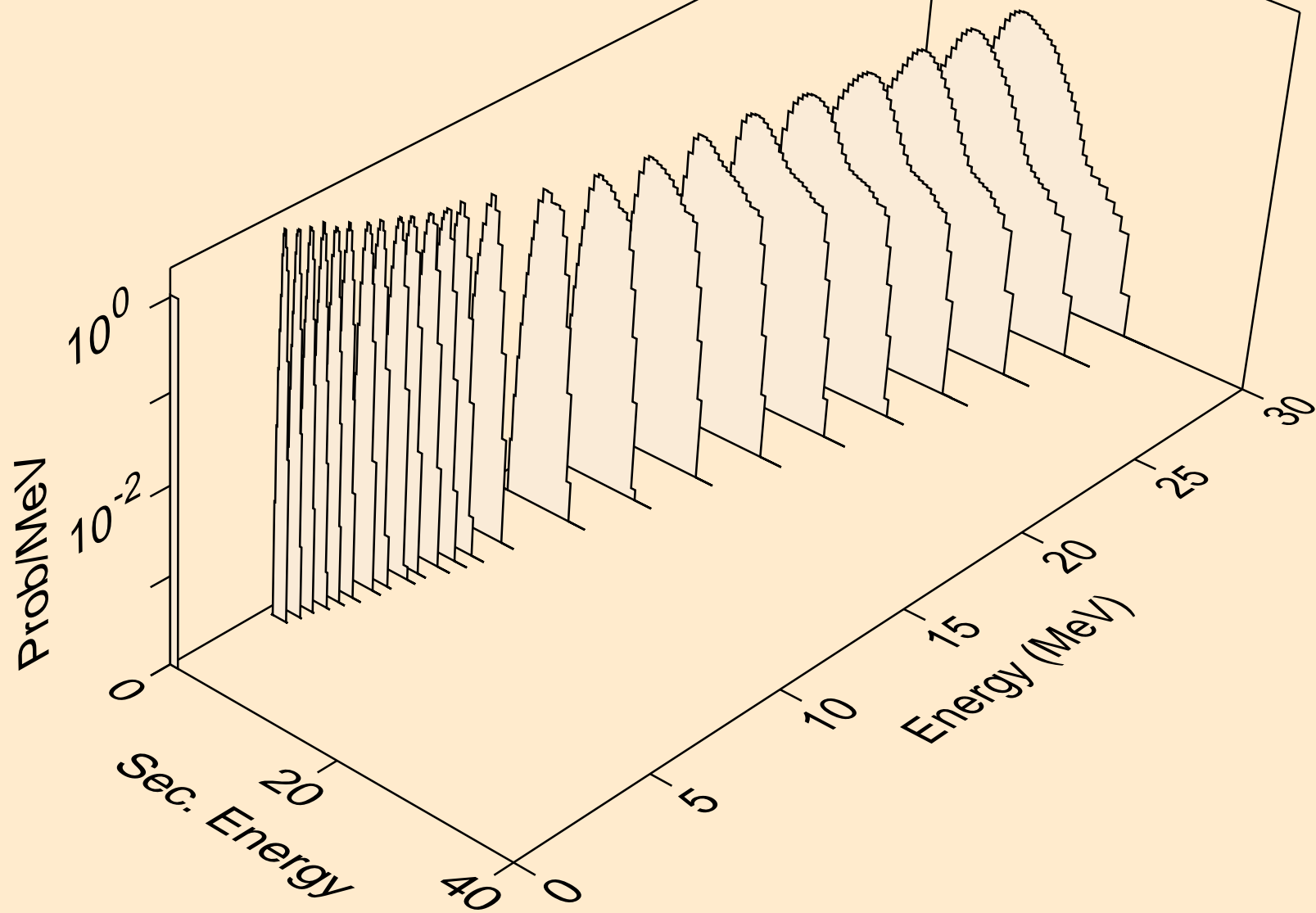
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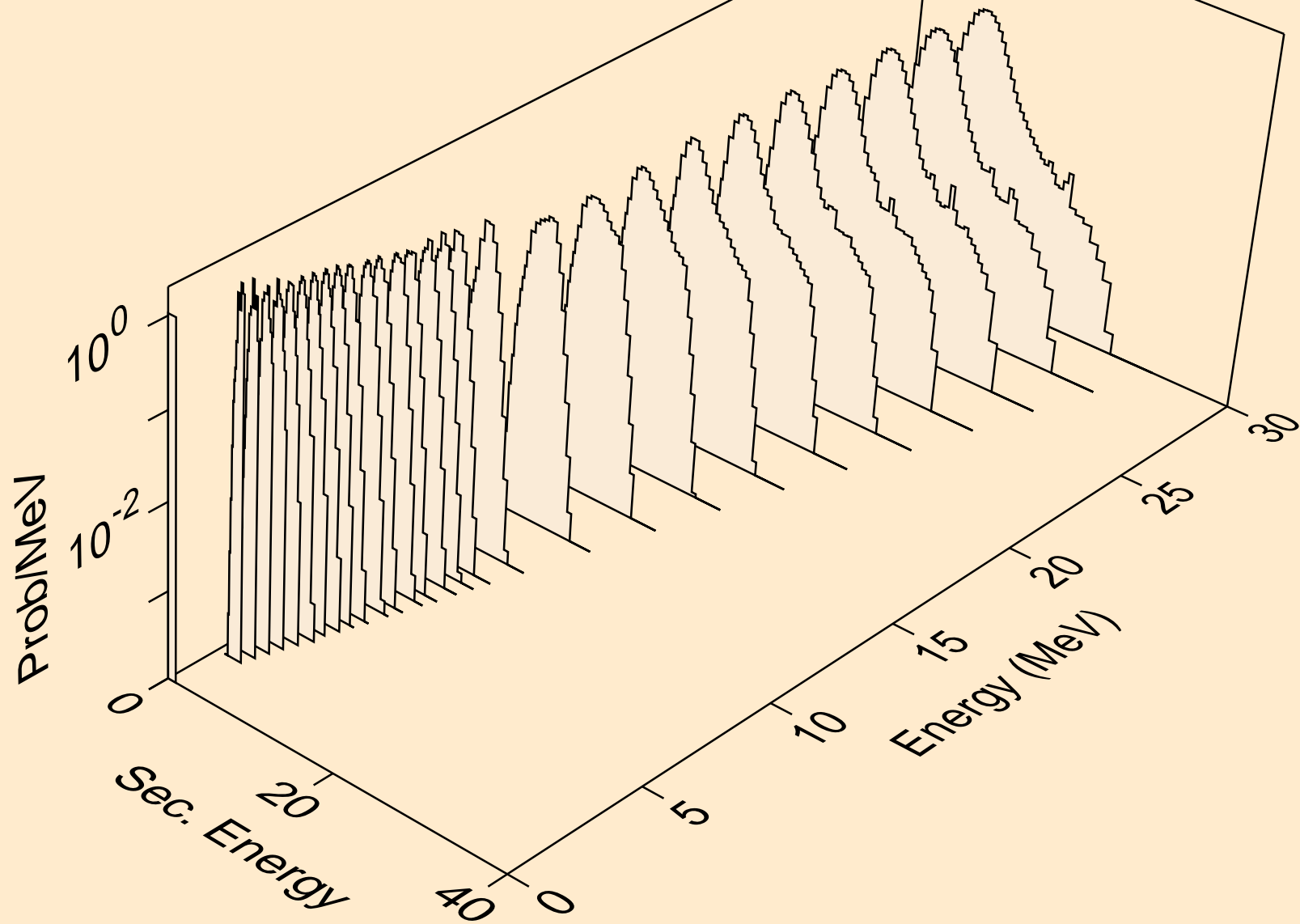
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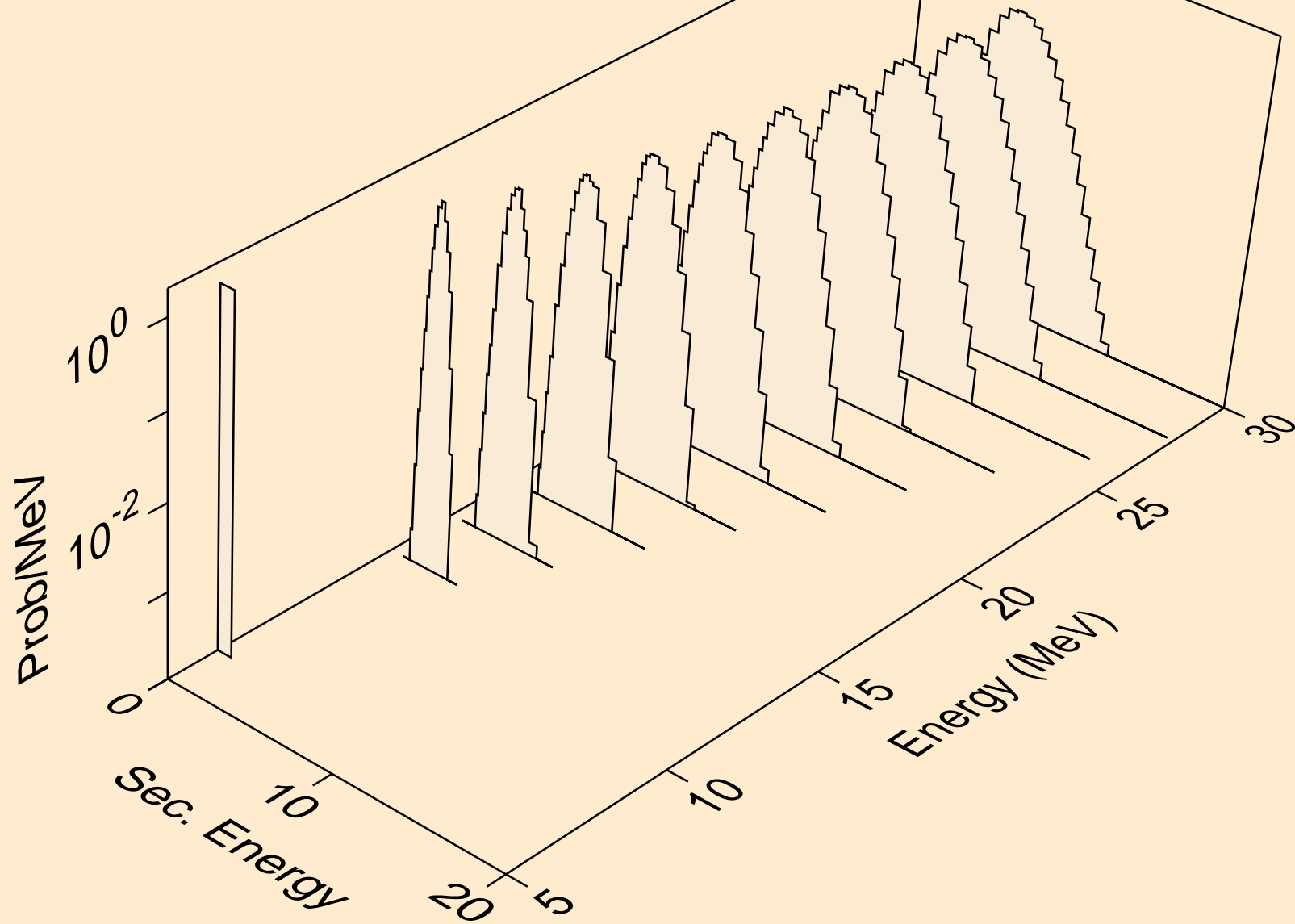
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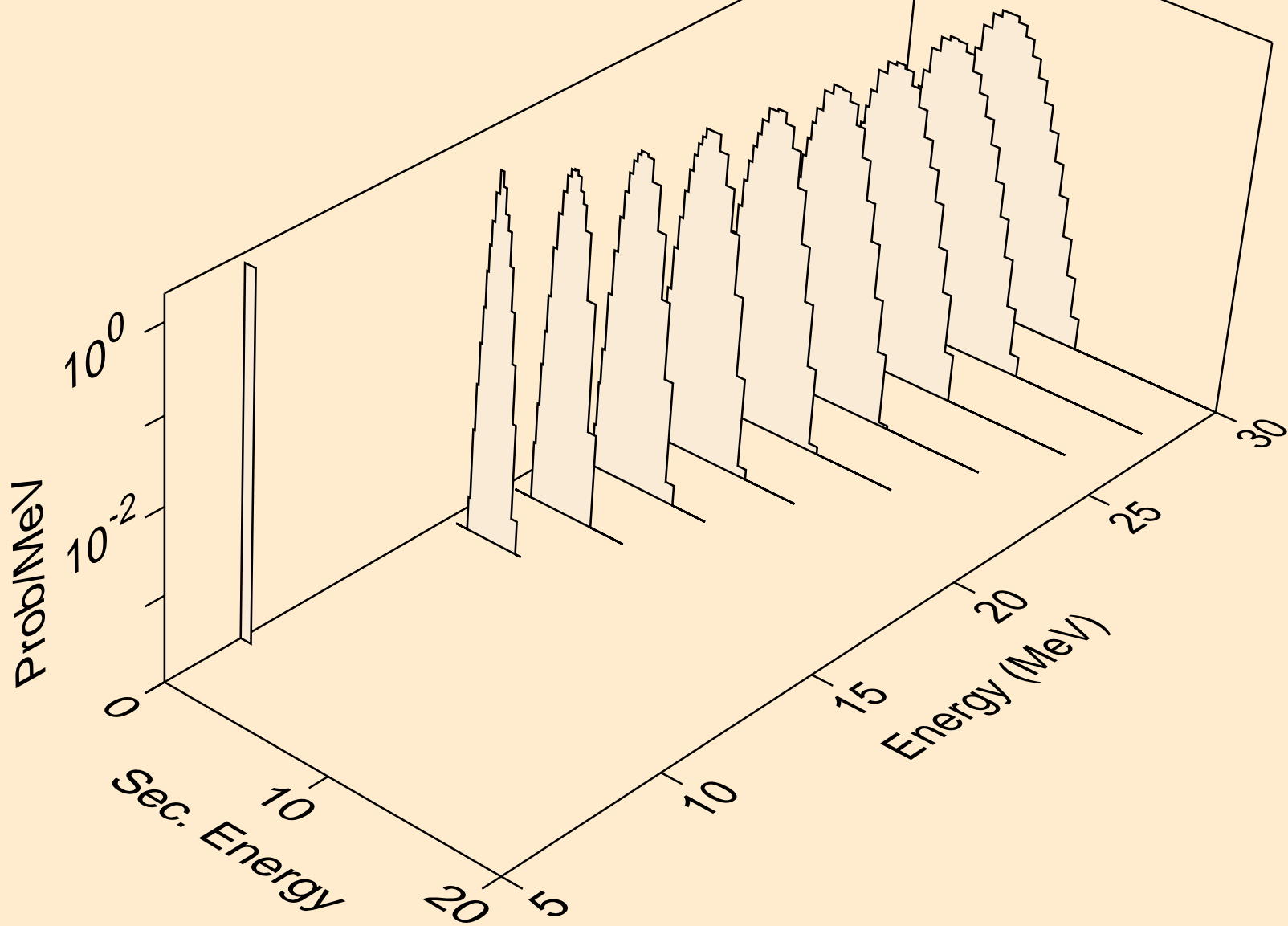
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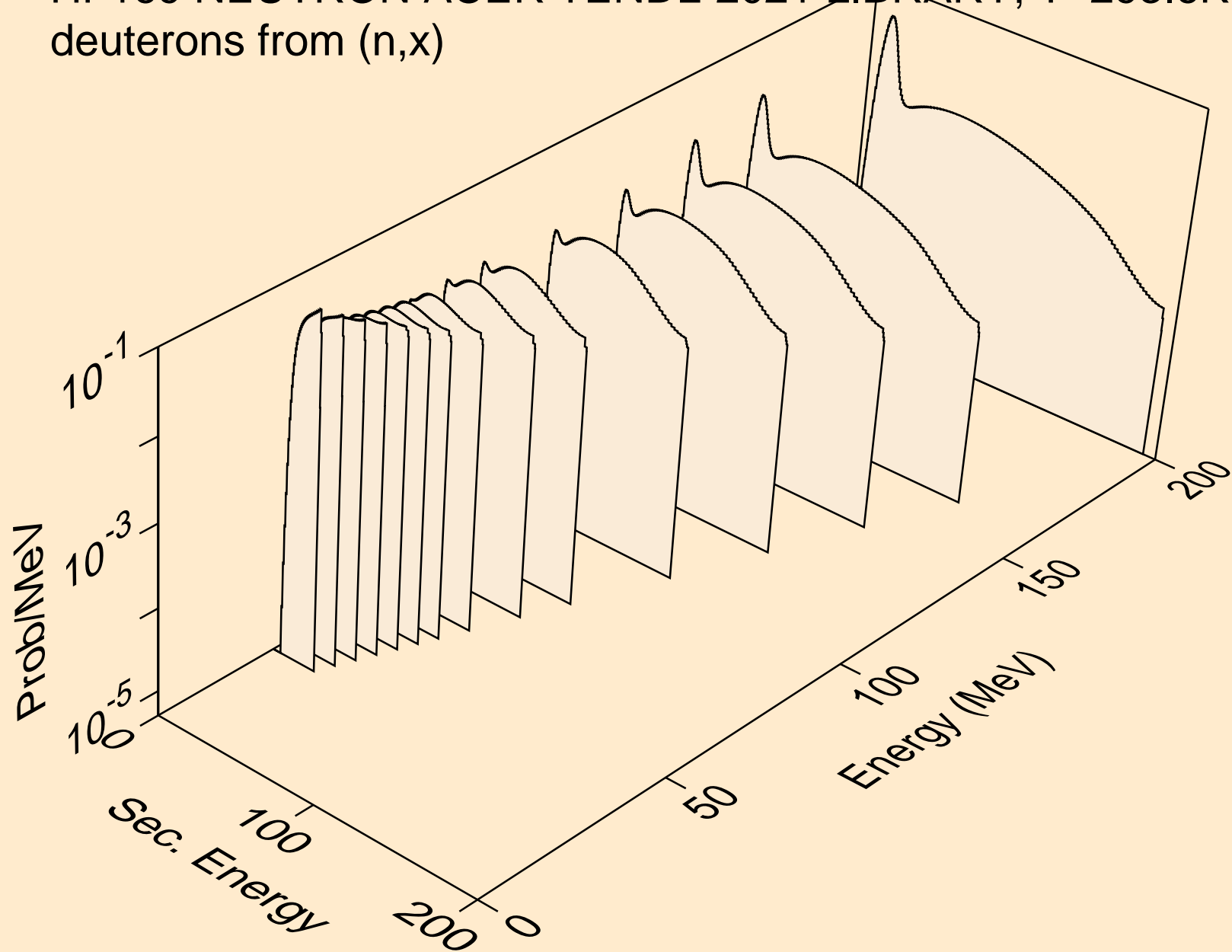
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protons from (n,pd)



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protons from (n,pt)

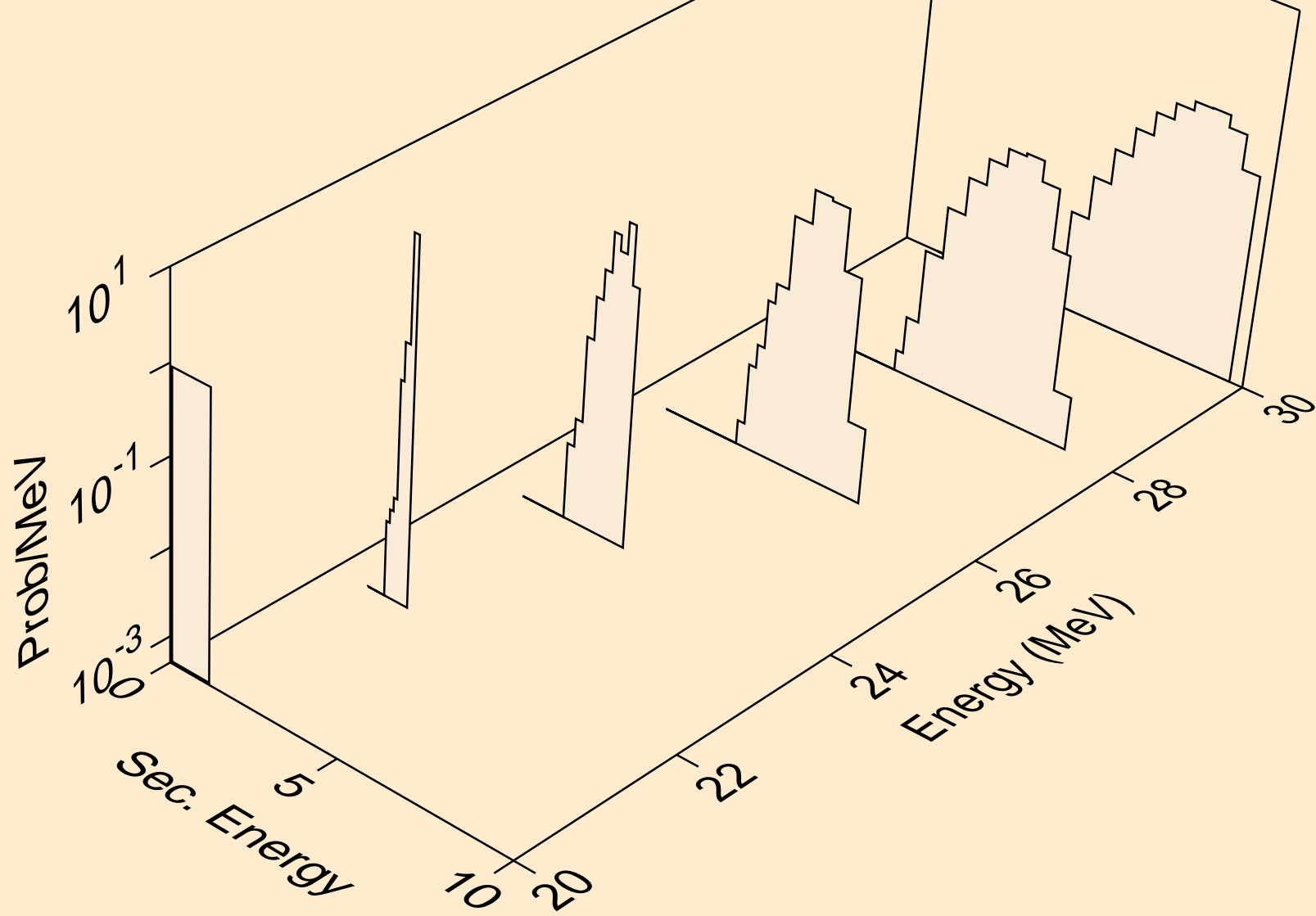


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deuterons from (n,x)

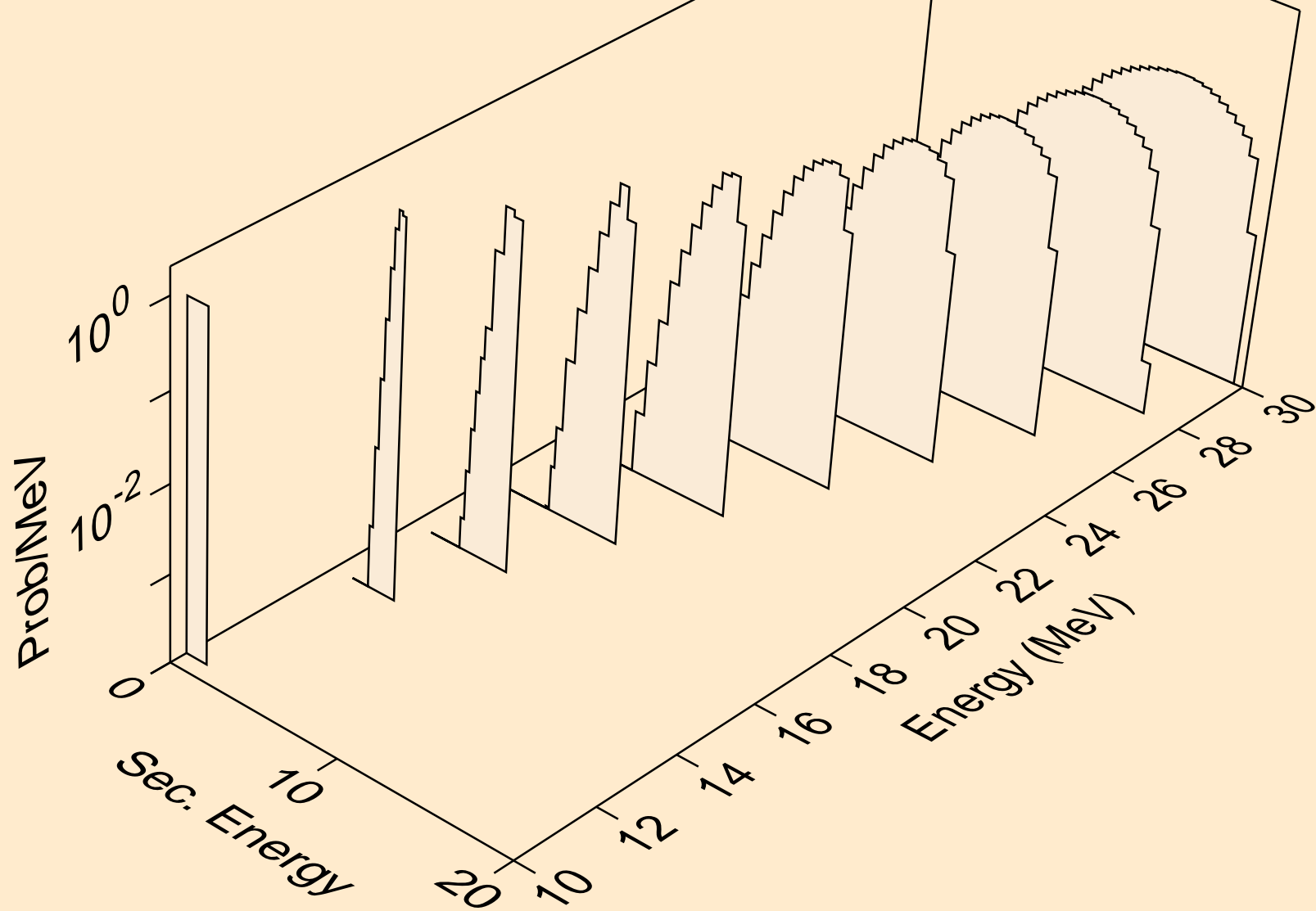




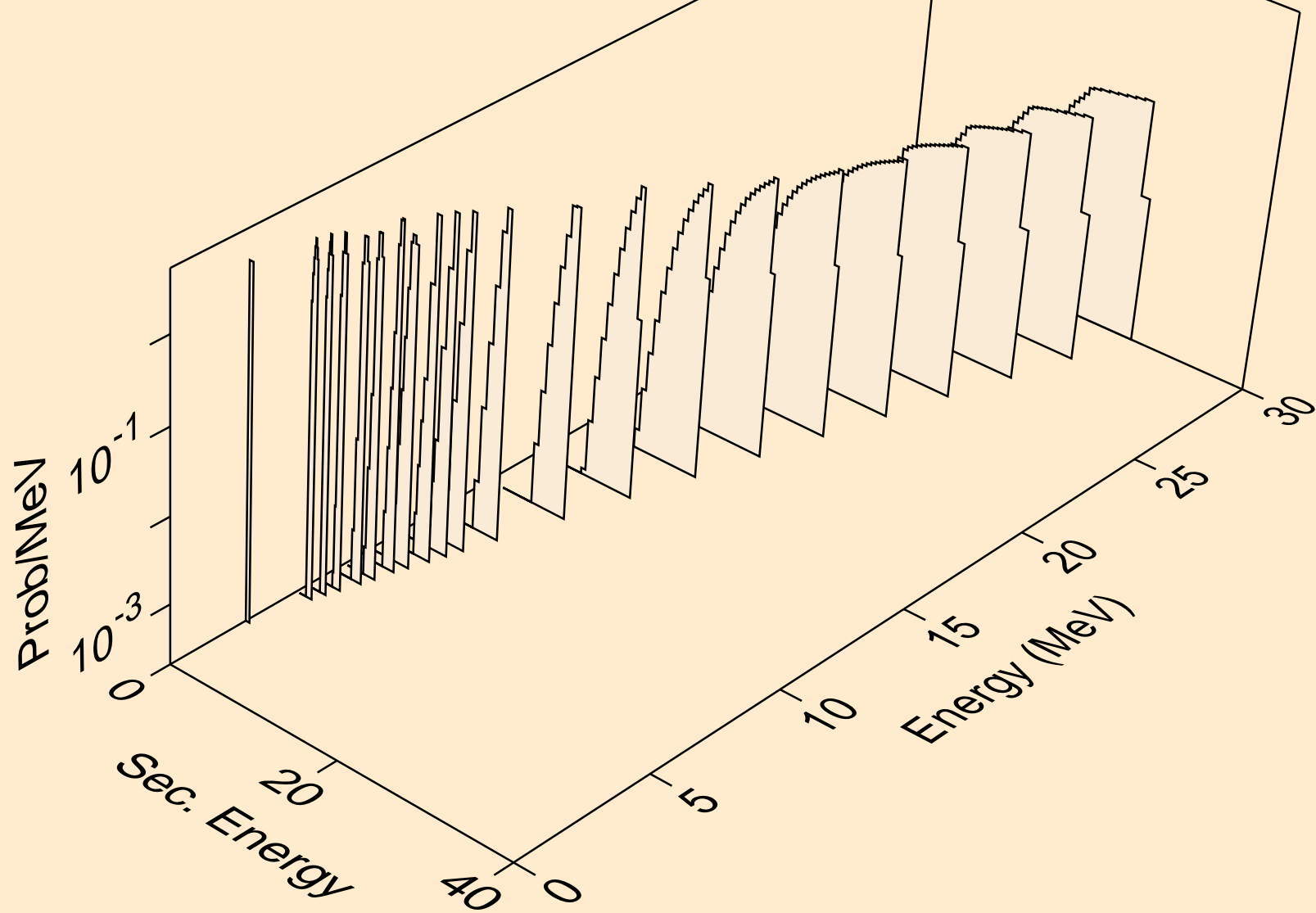
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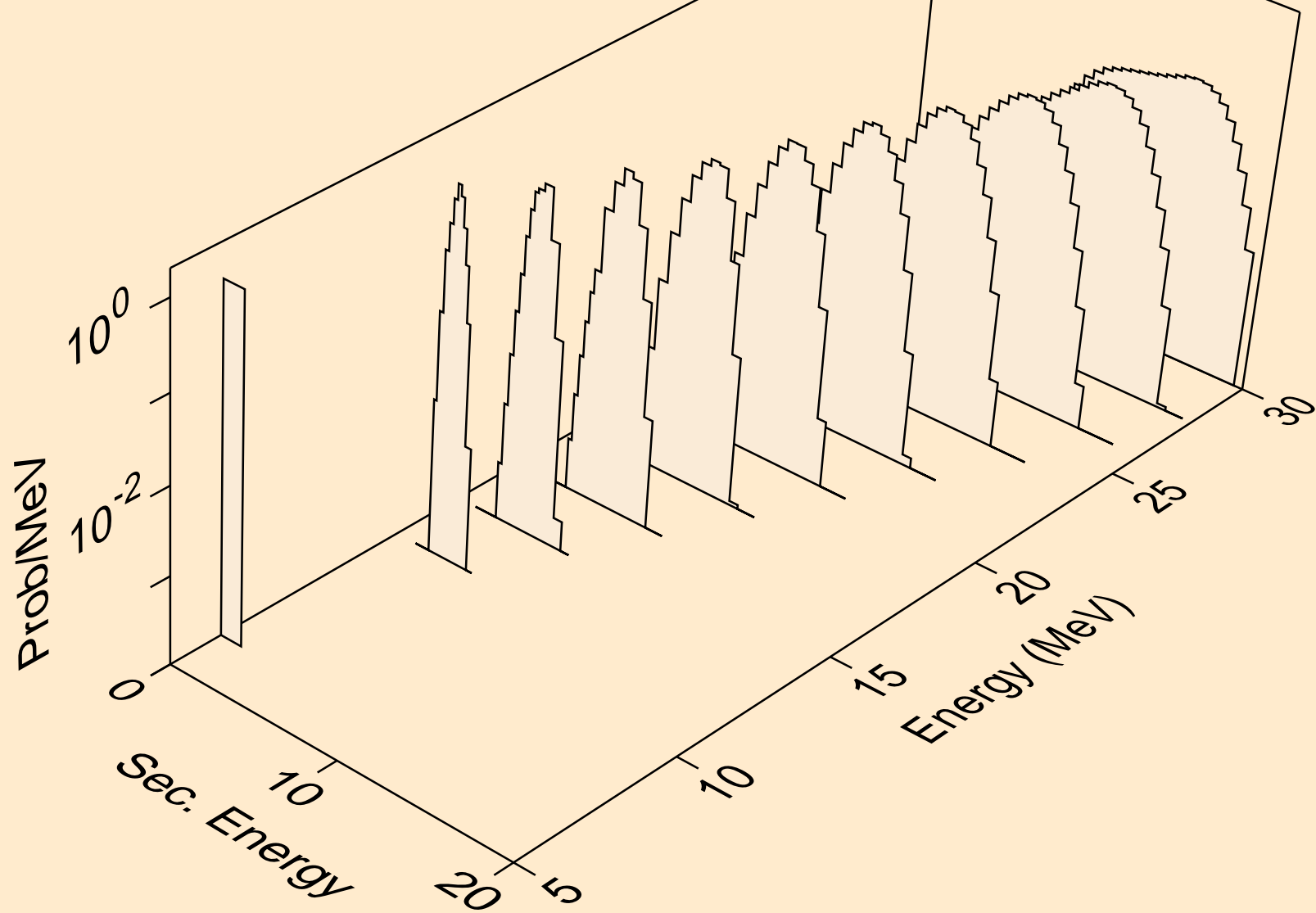
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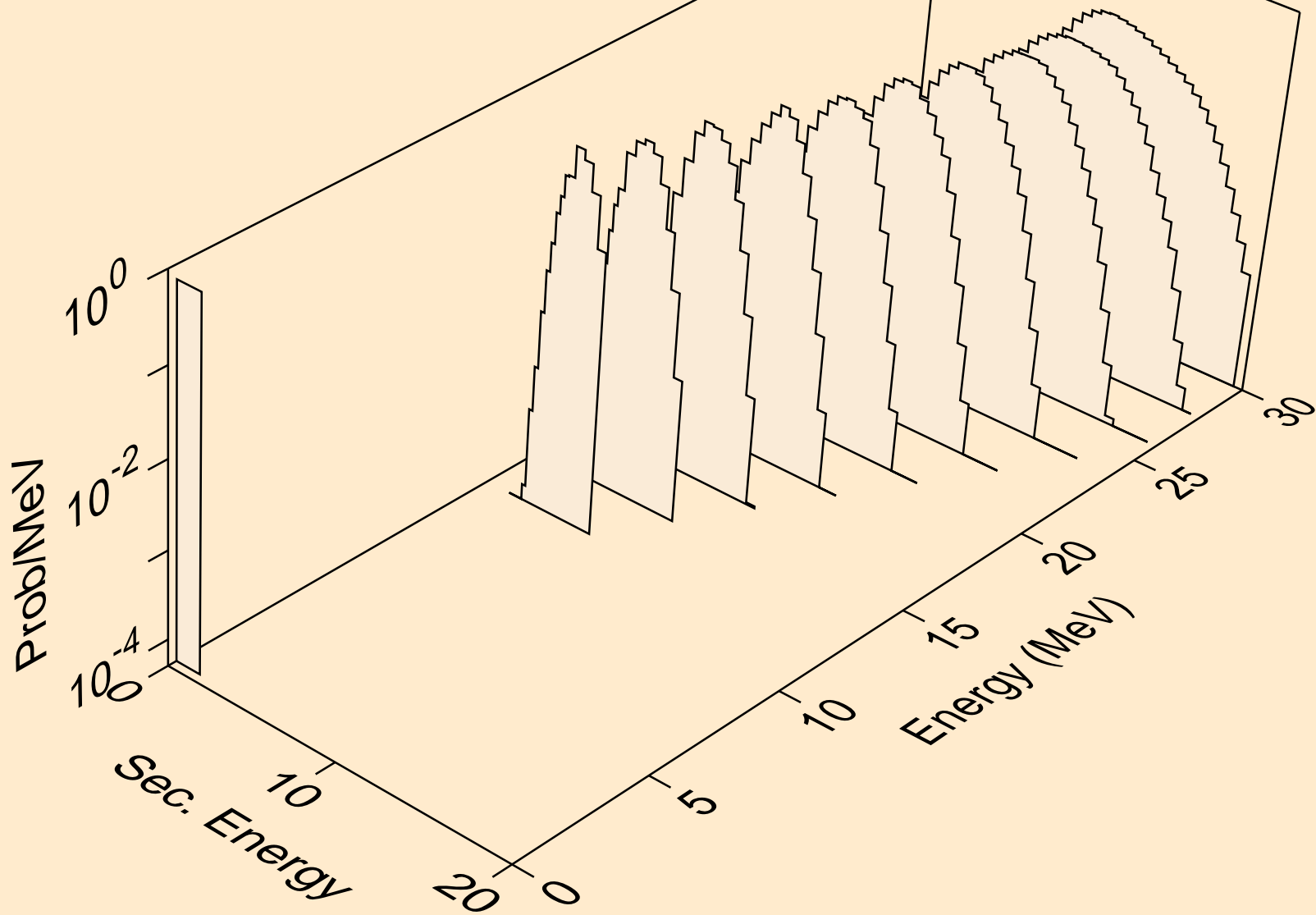
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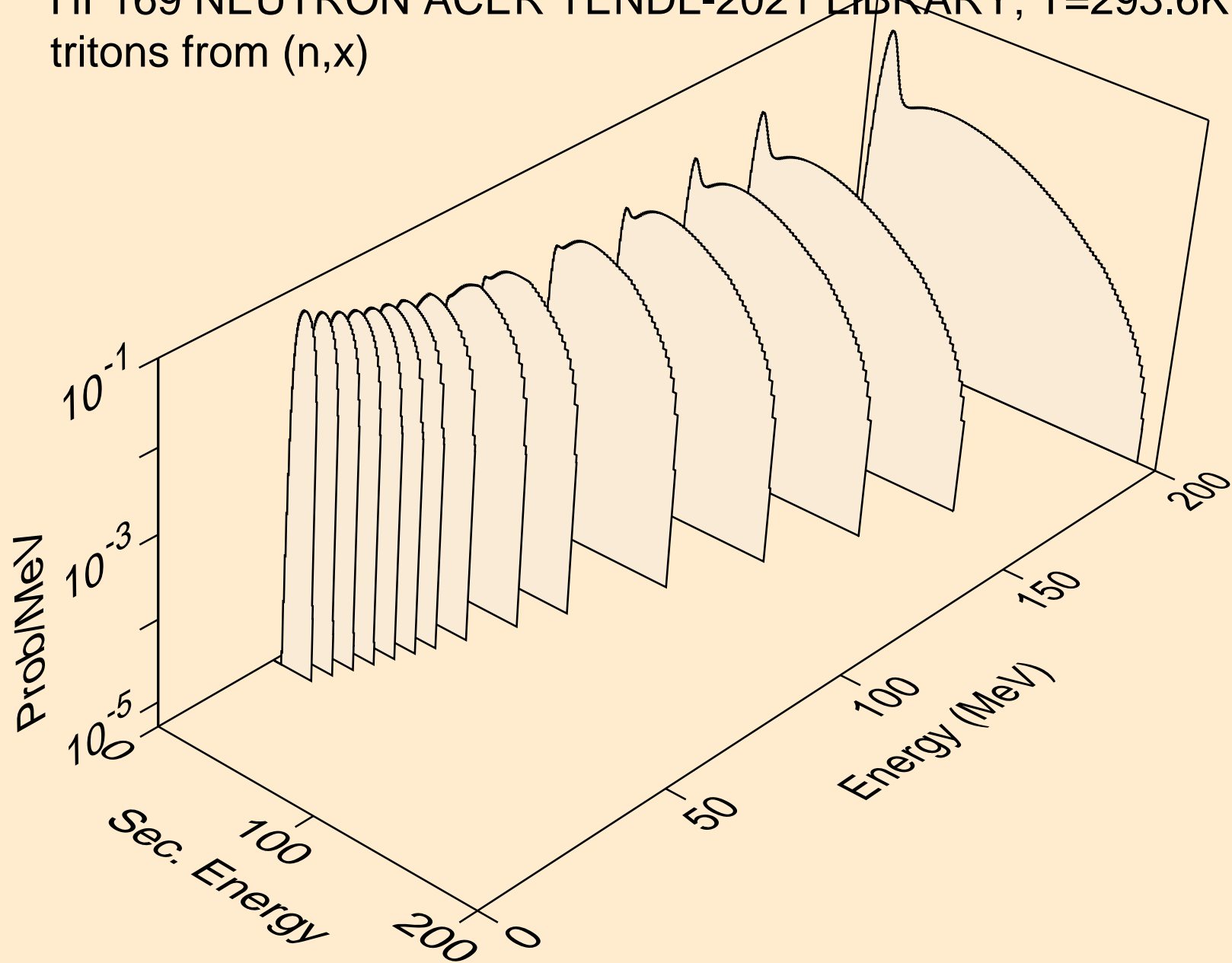
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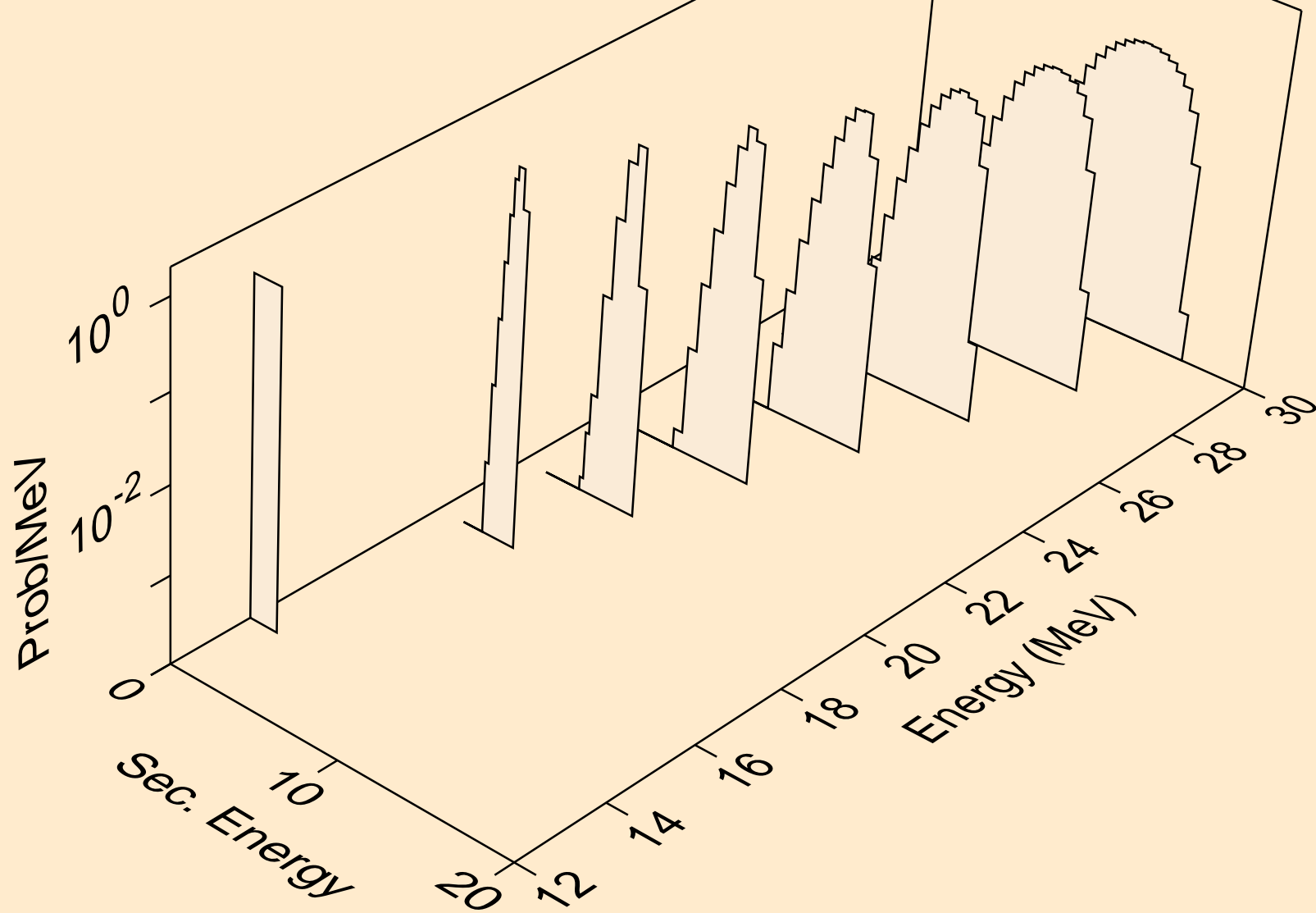
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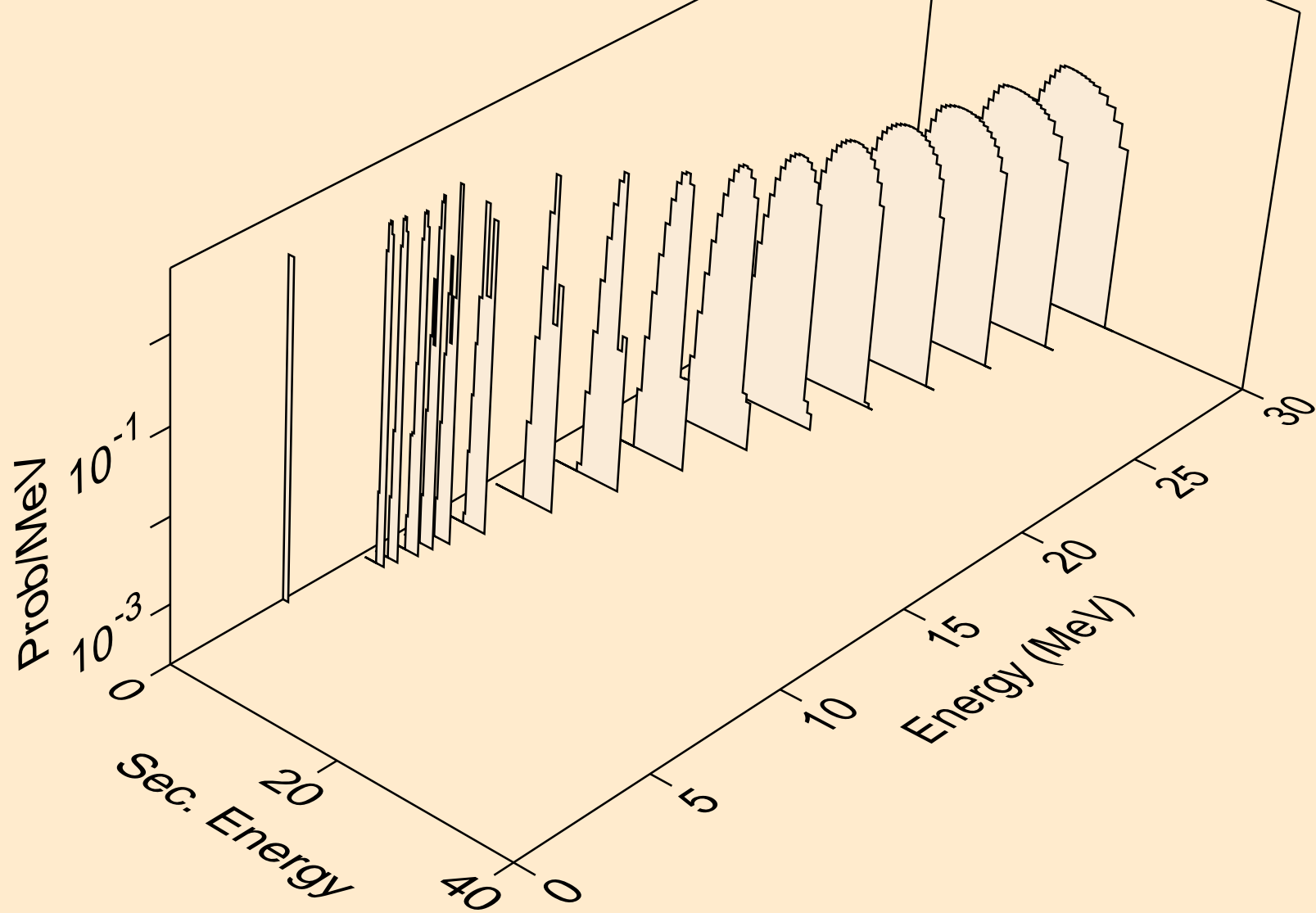
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tritons from (n,x)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t

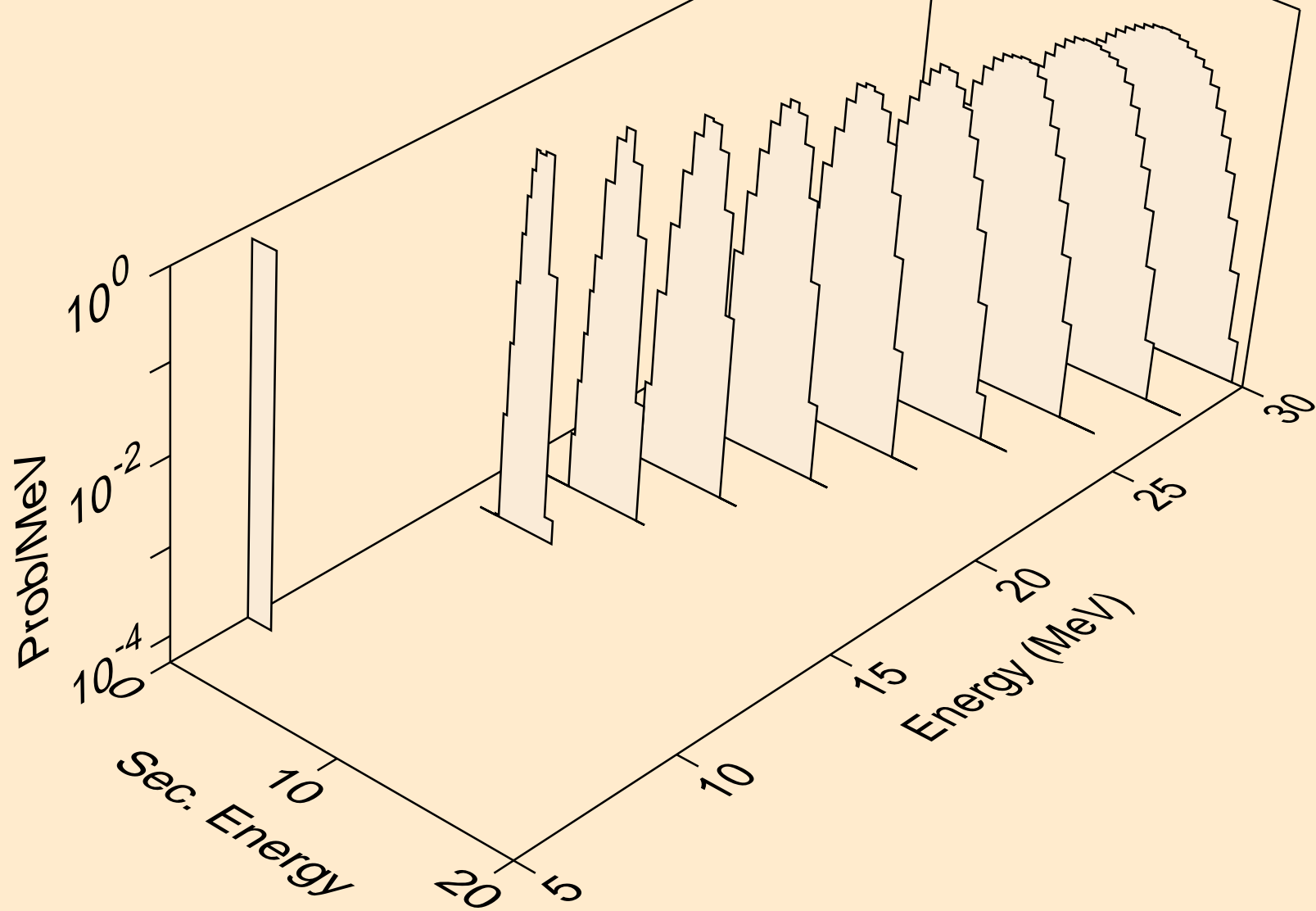


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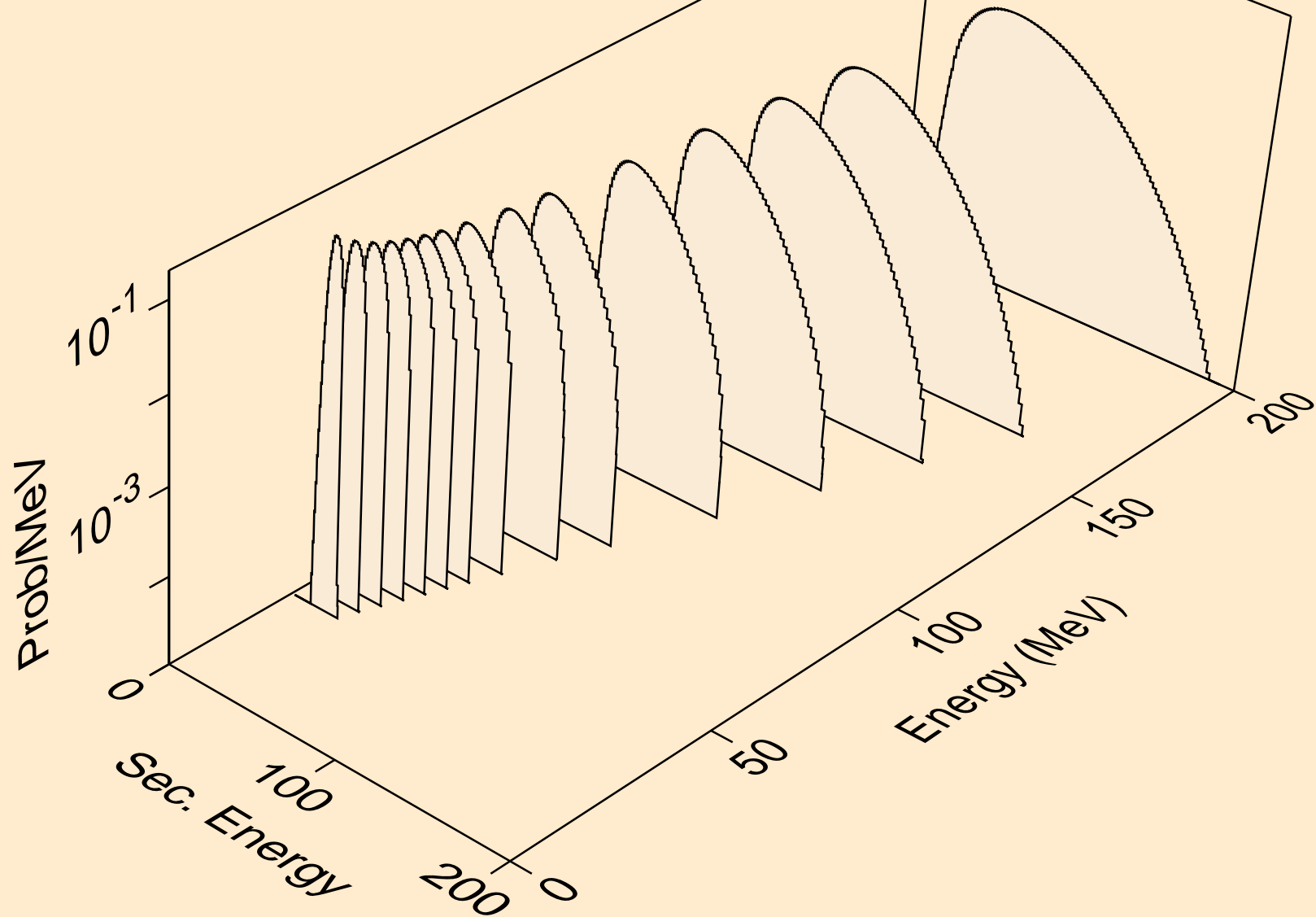




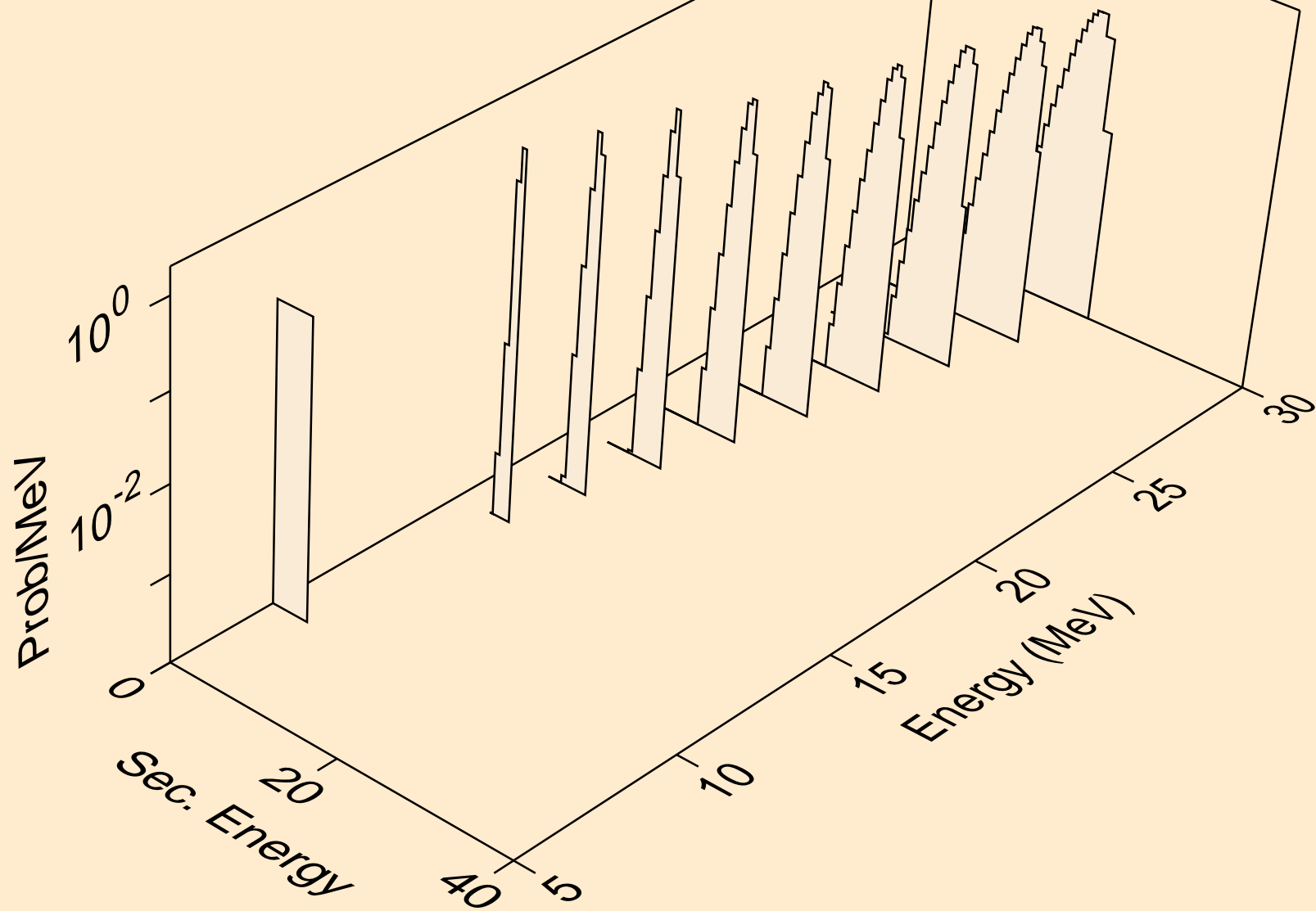
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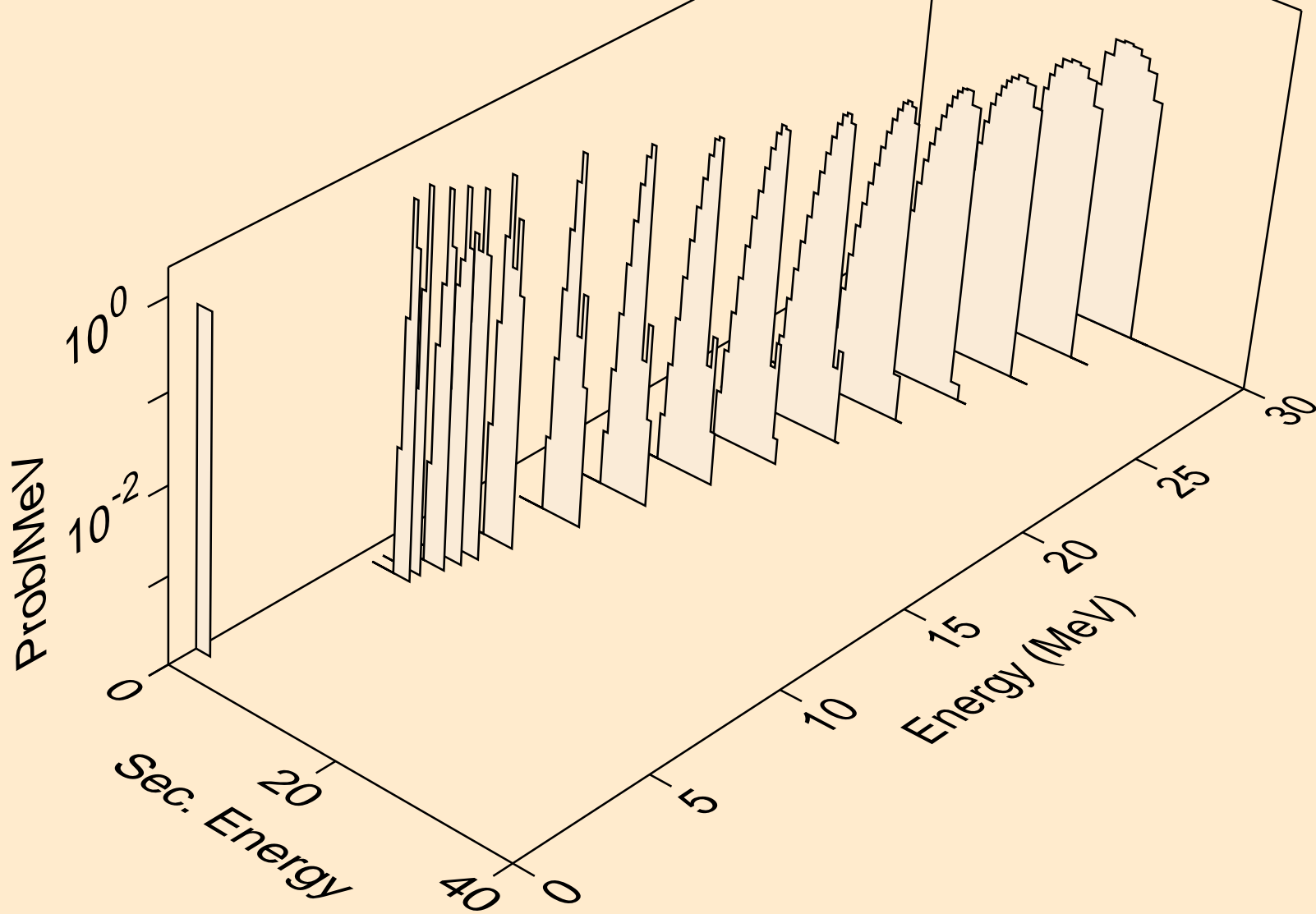
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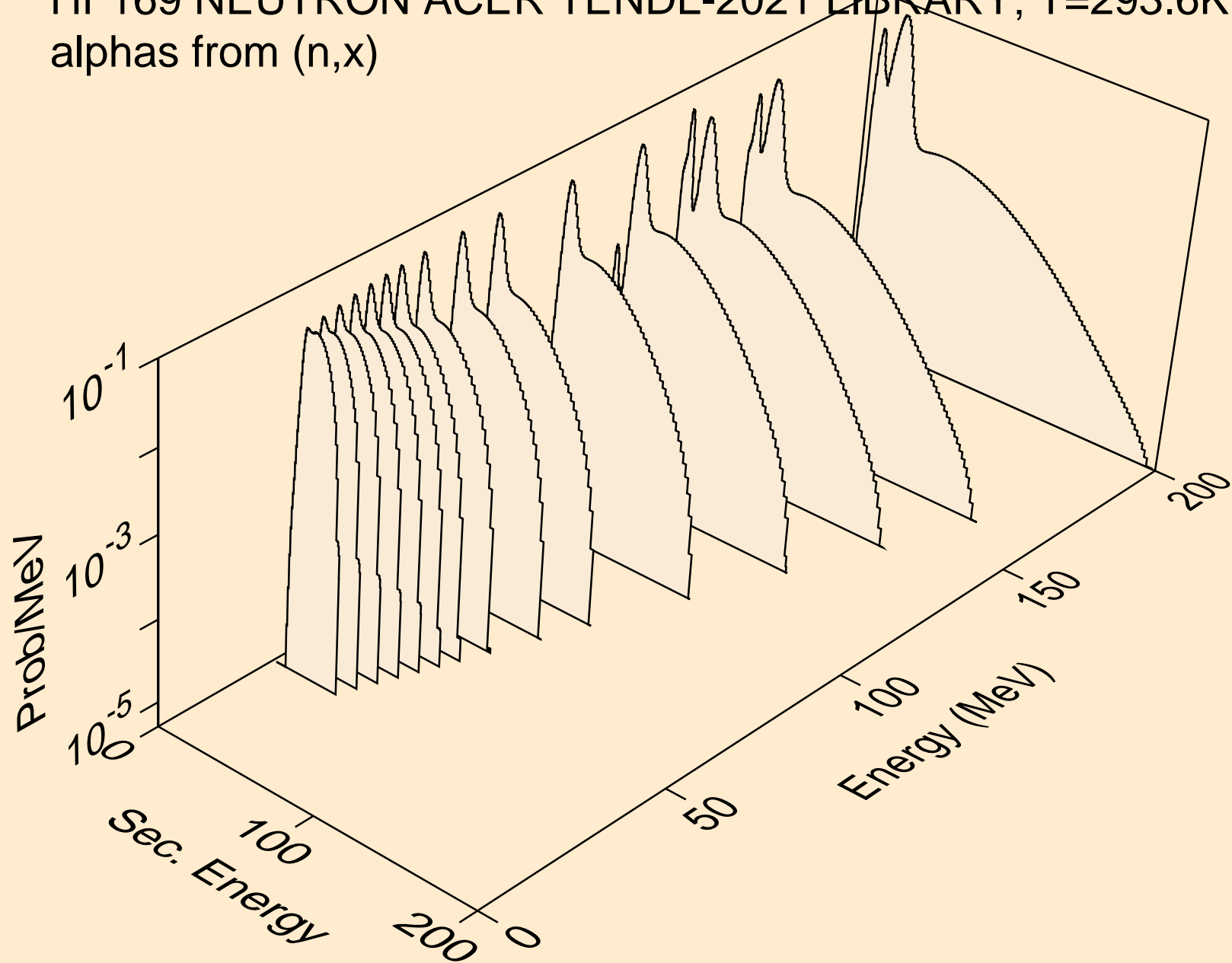
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he3s from (n,n\*)he3



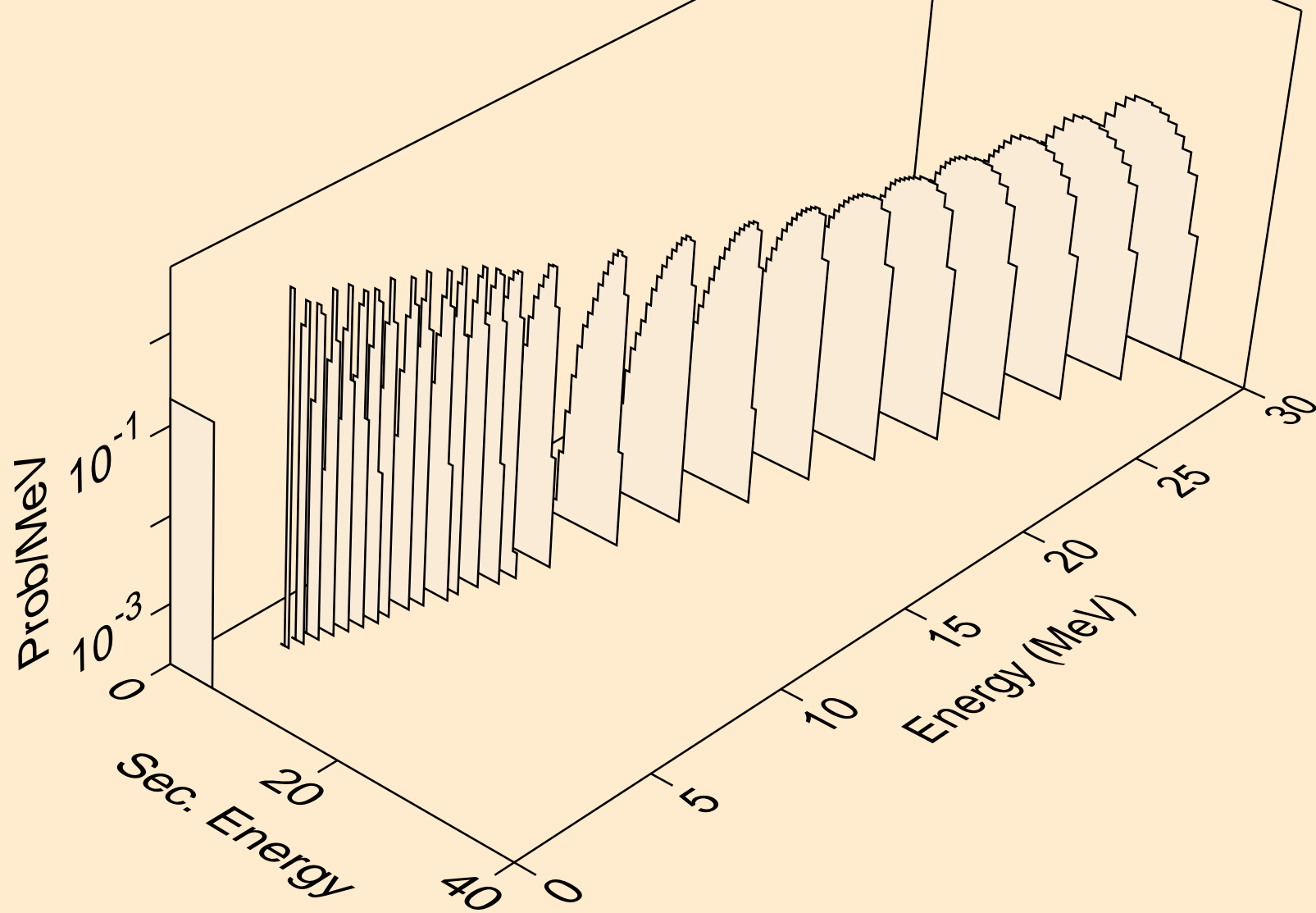
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he3s from (n,he3)



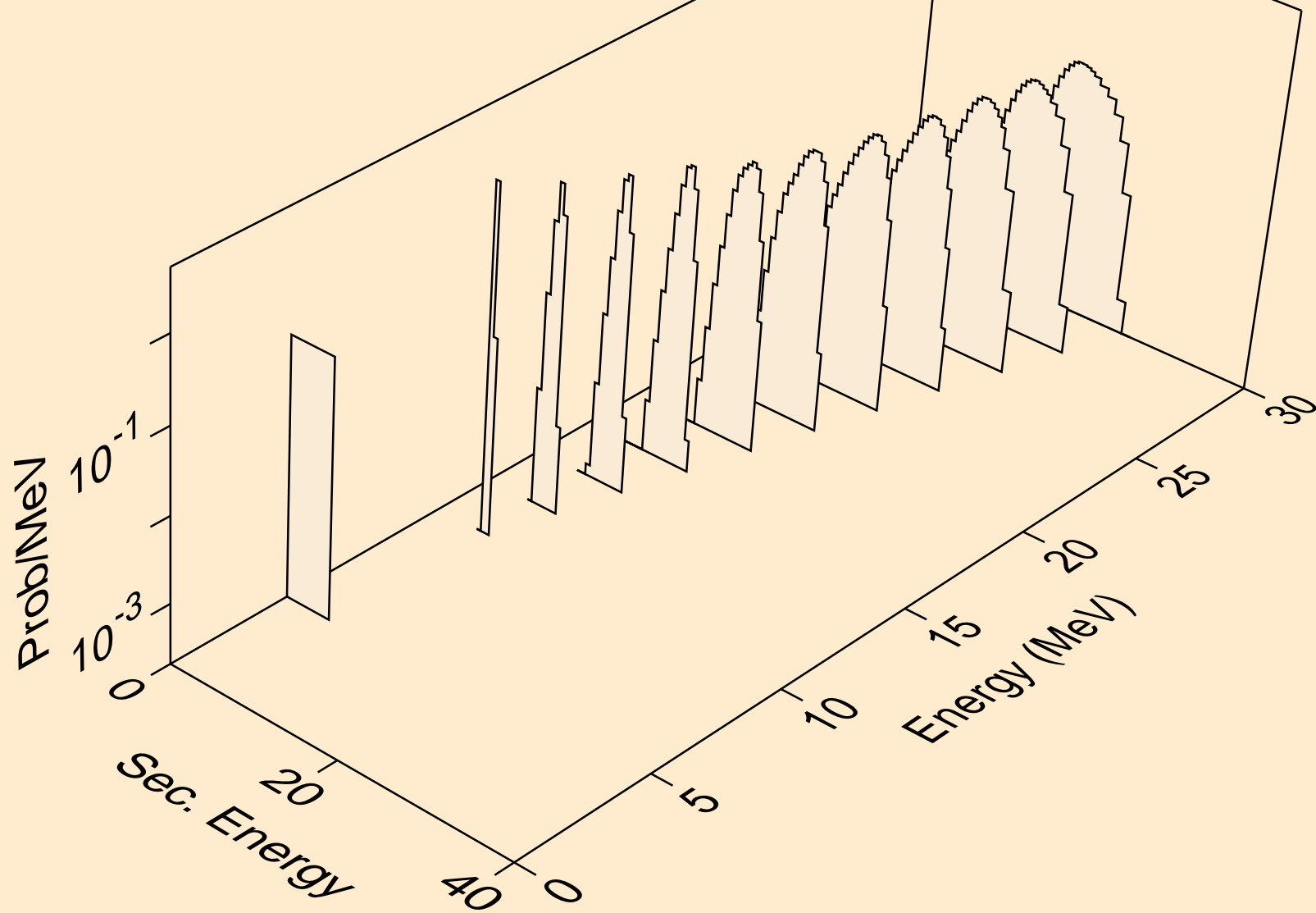
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



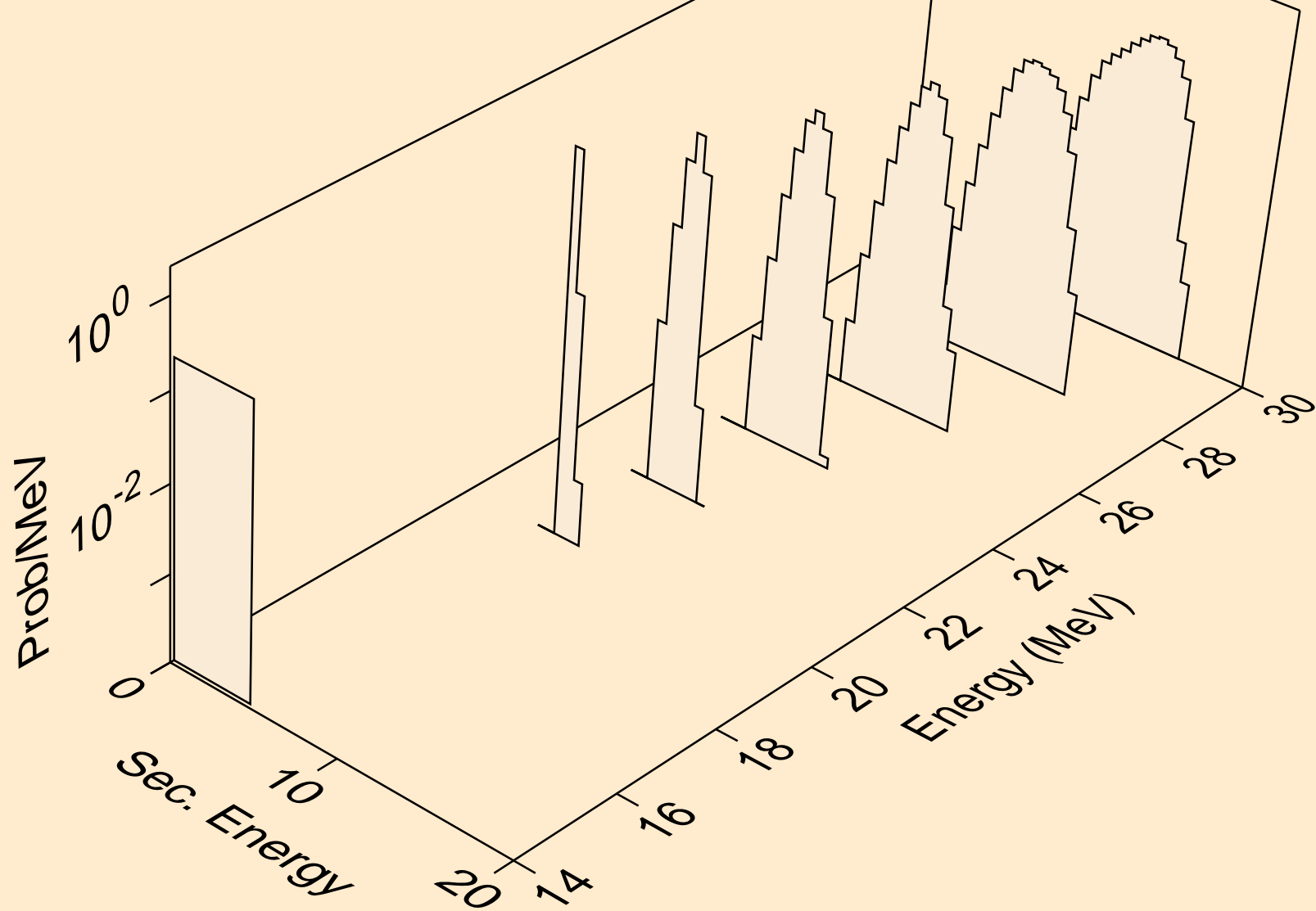
HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a

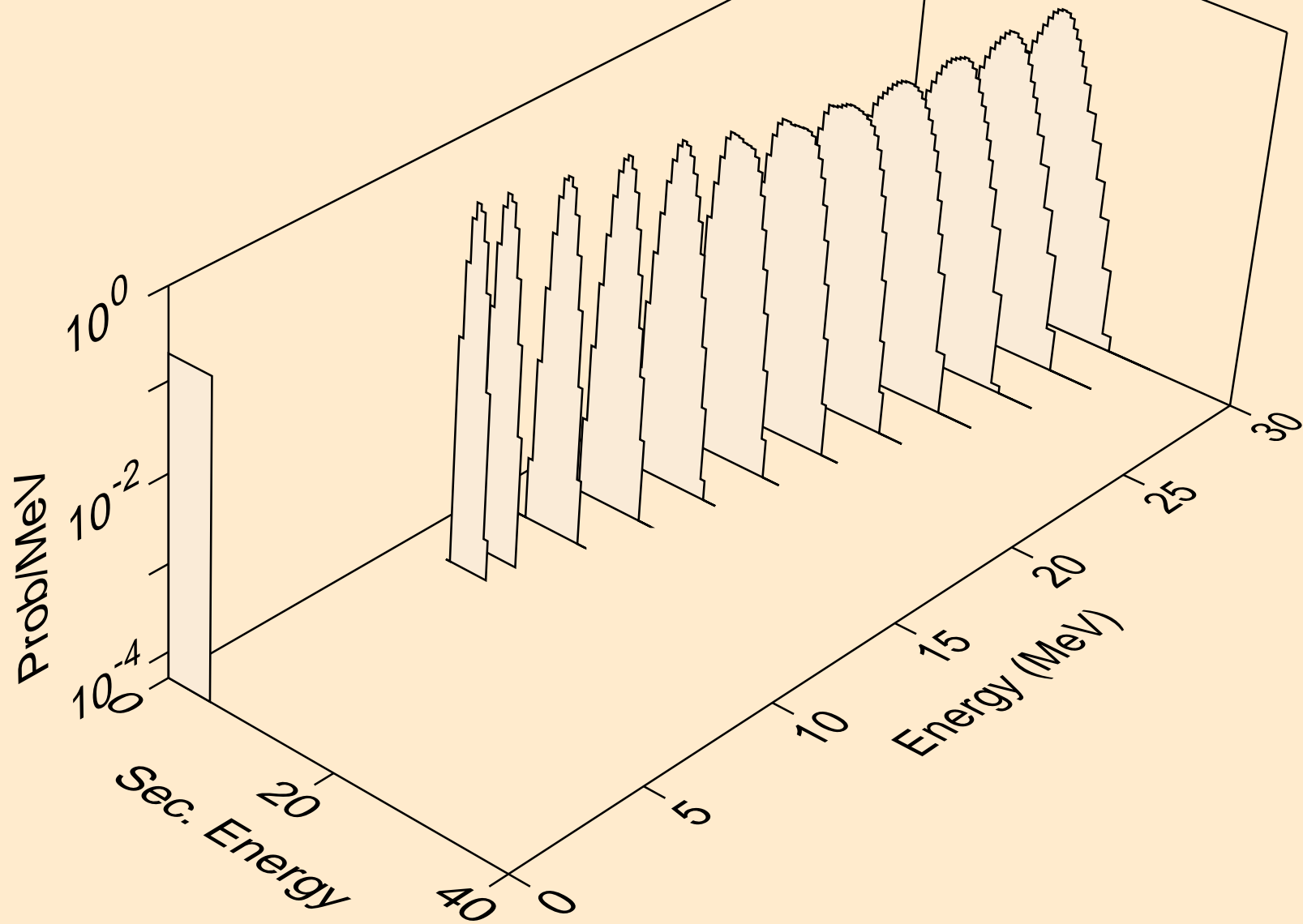


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alphas from (n,3n)a

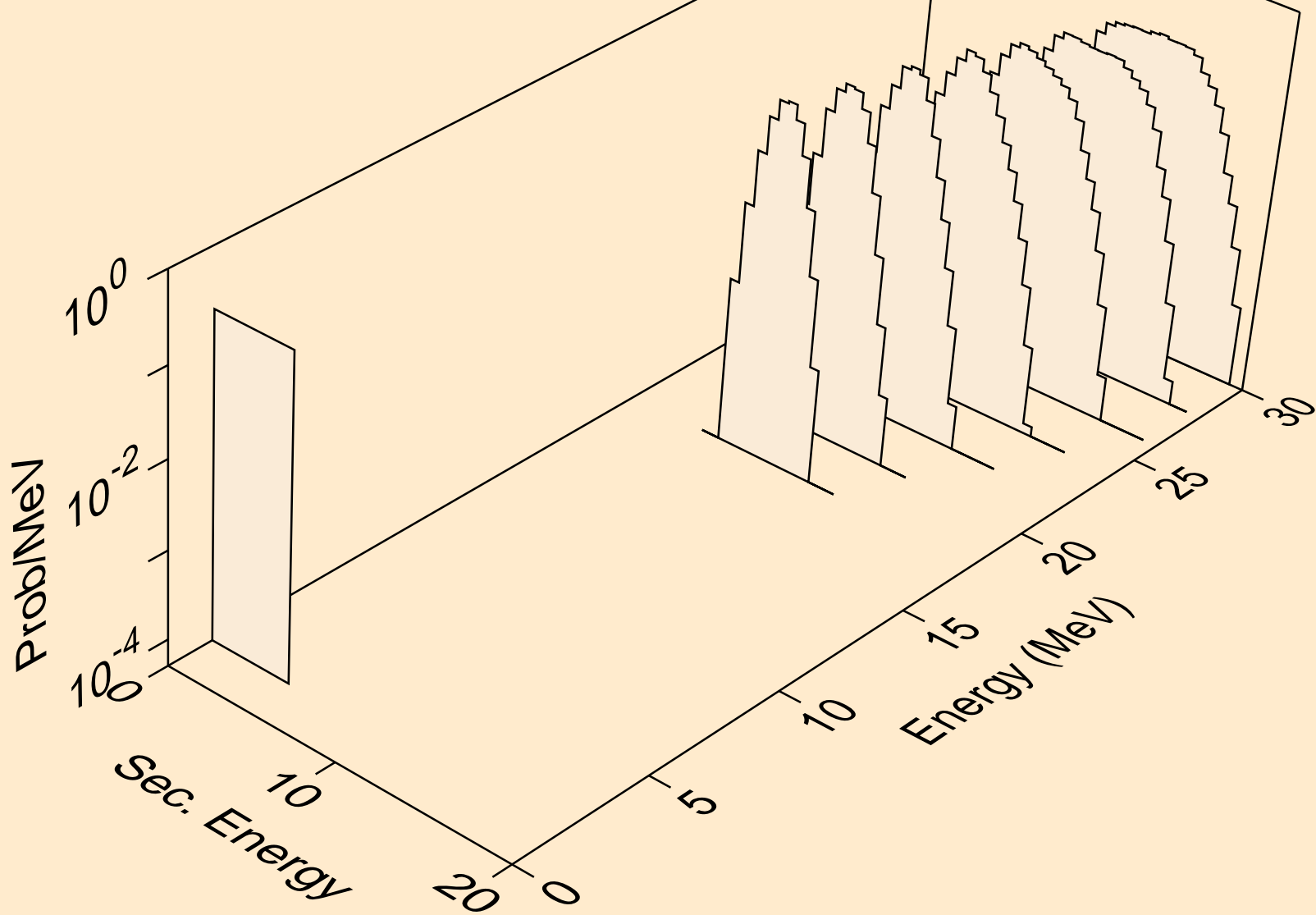




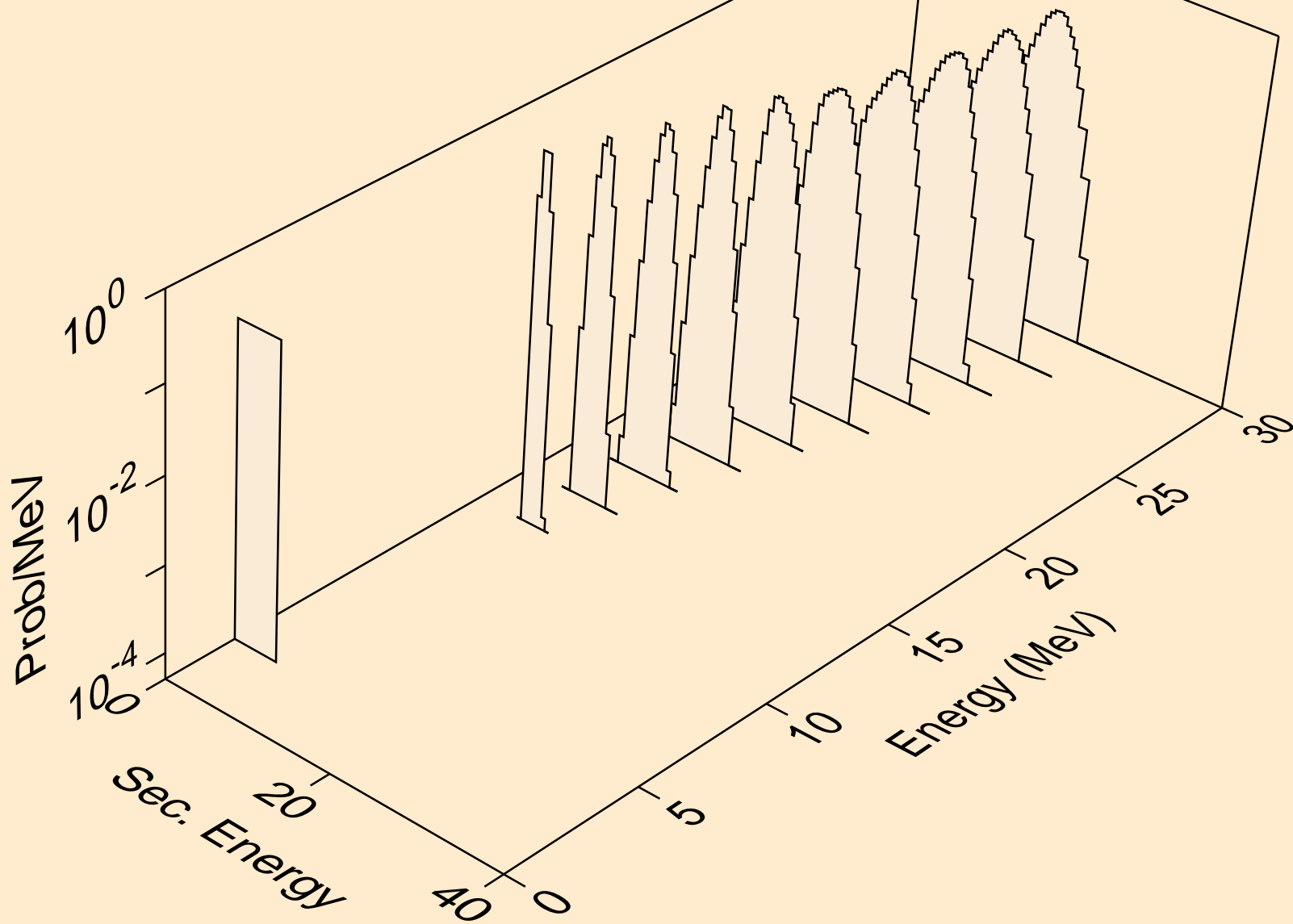
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alphas from (n,n\*)2a



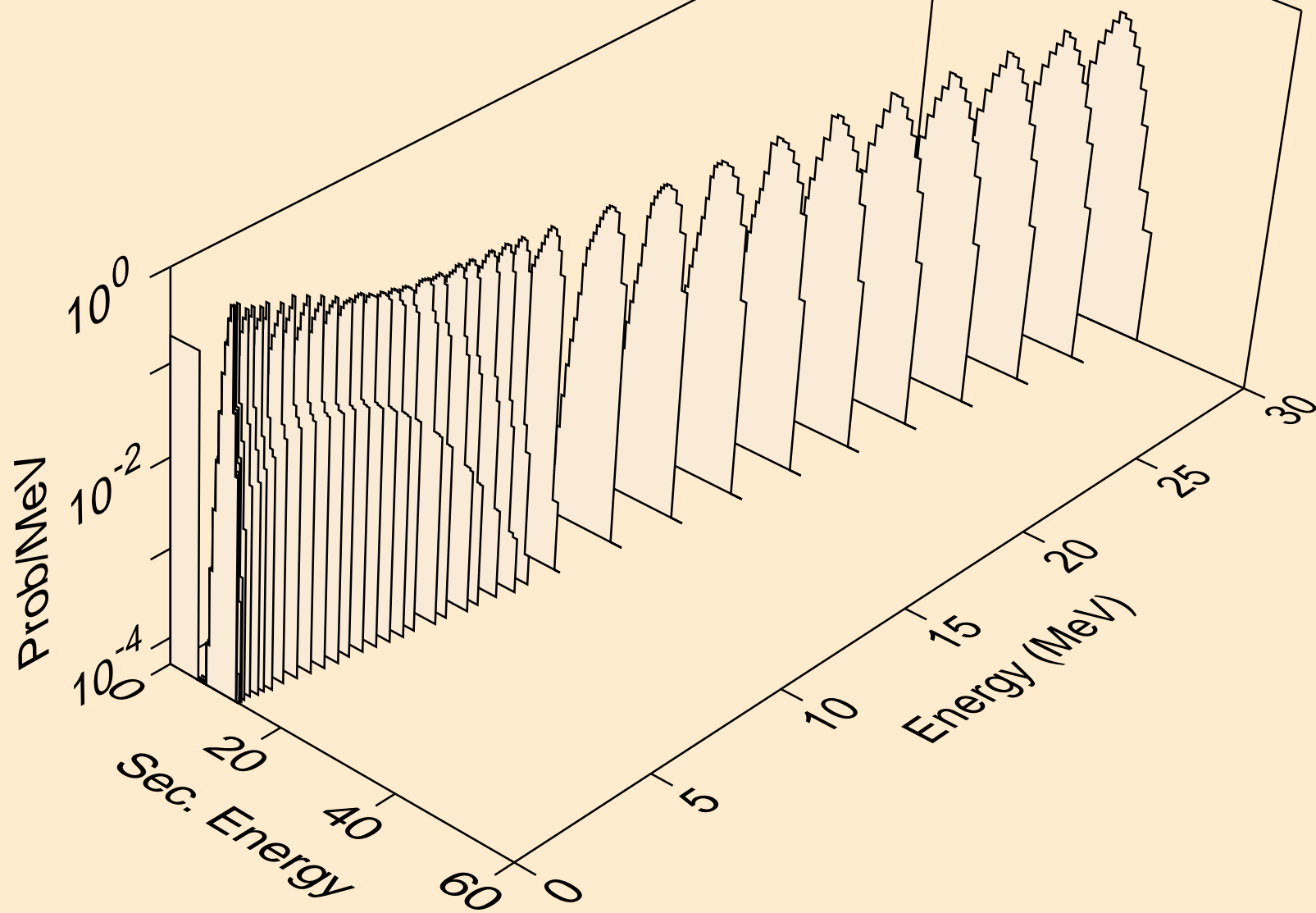
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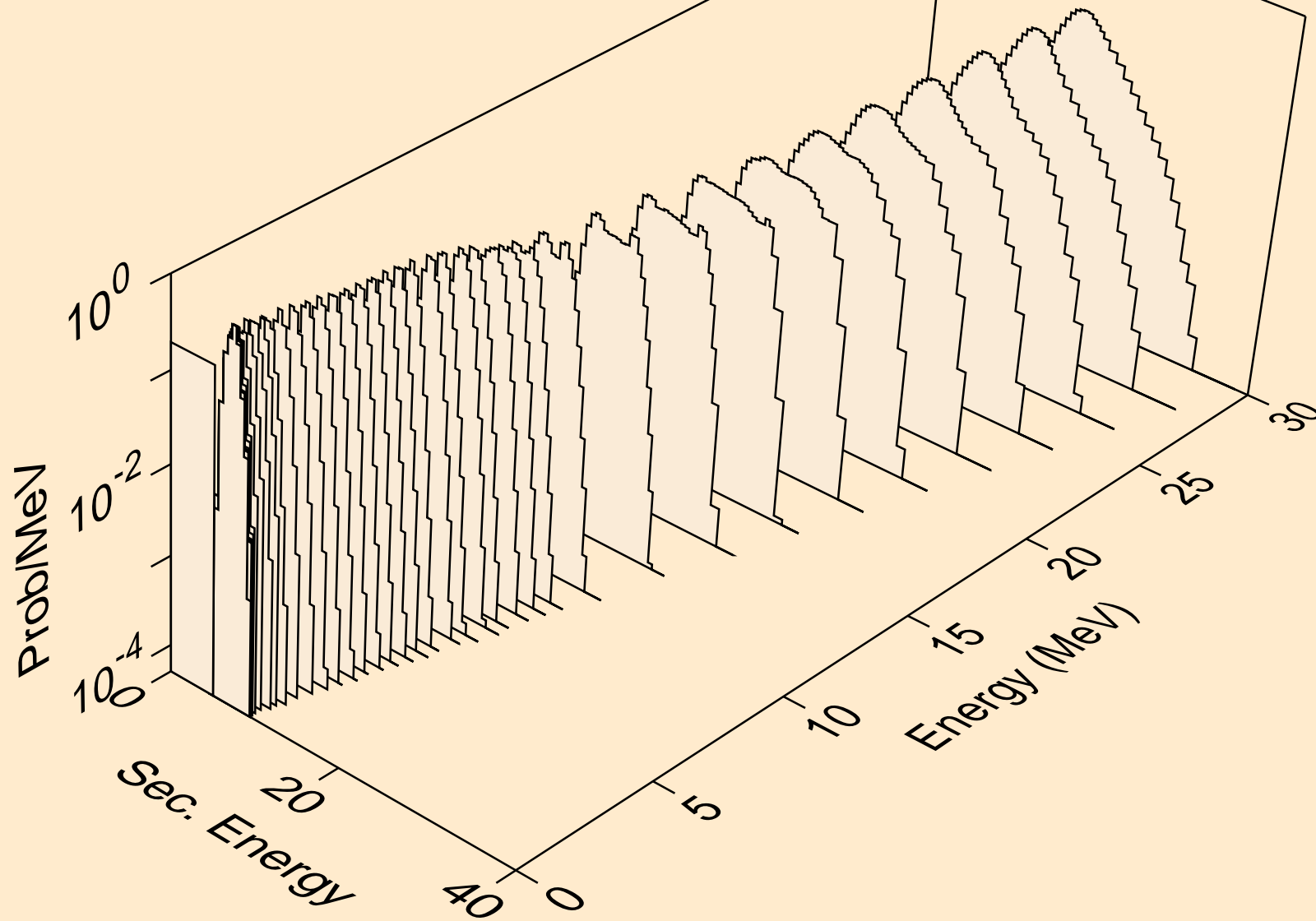
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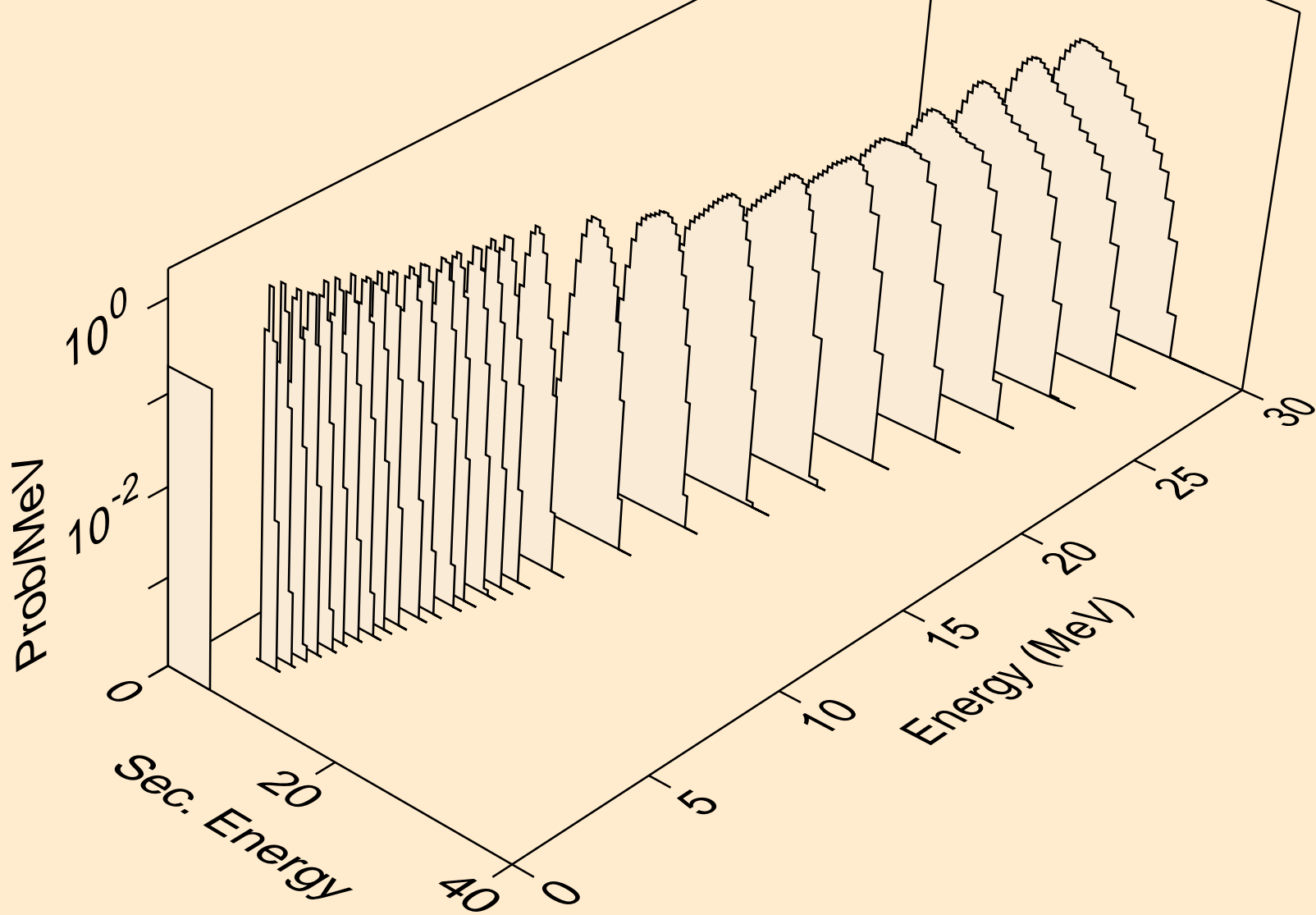
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alphas from (n,a)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



HF169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

