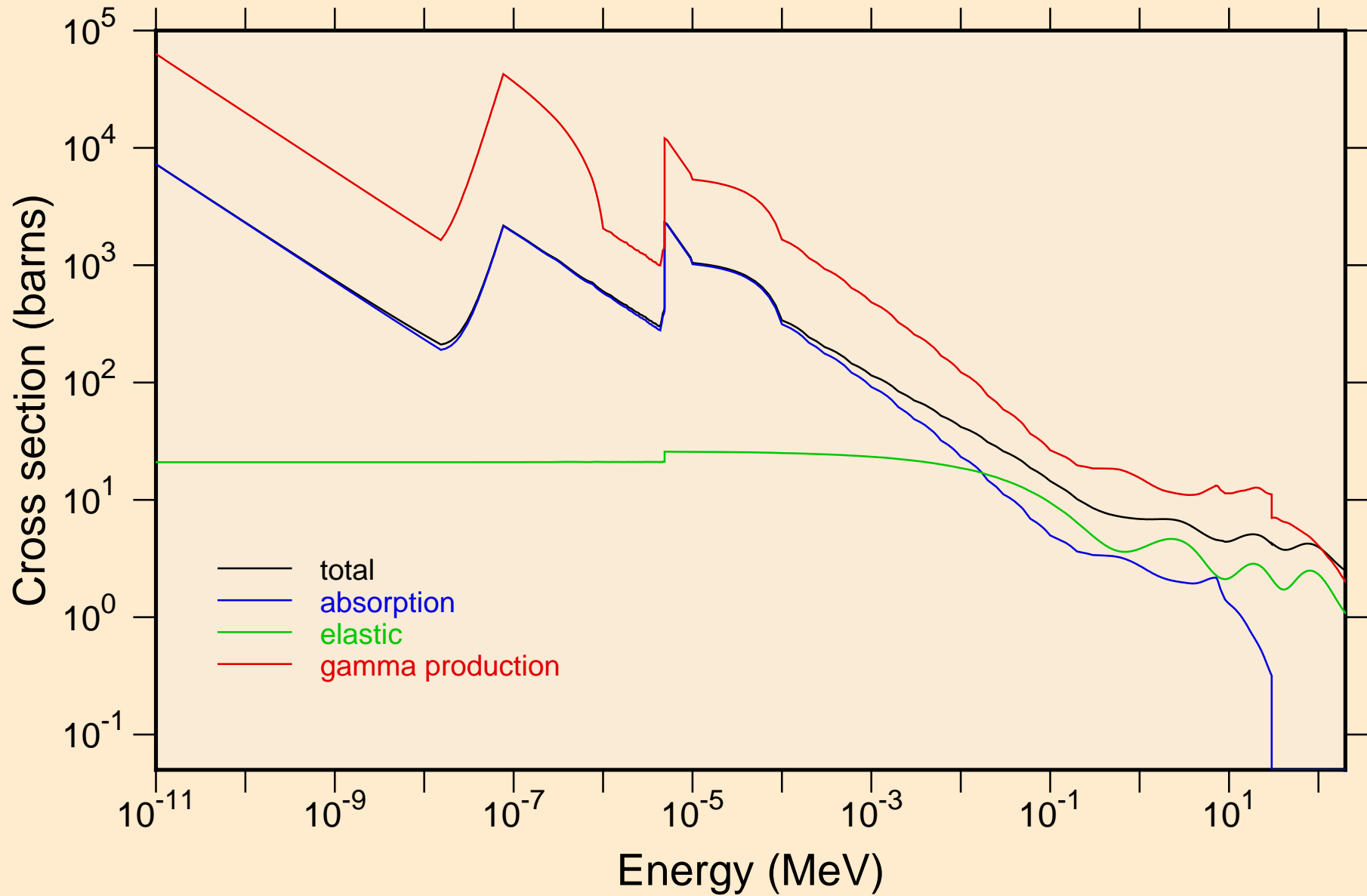


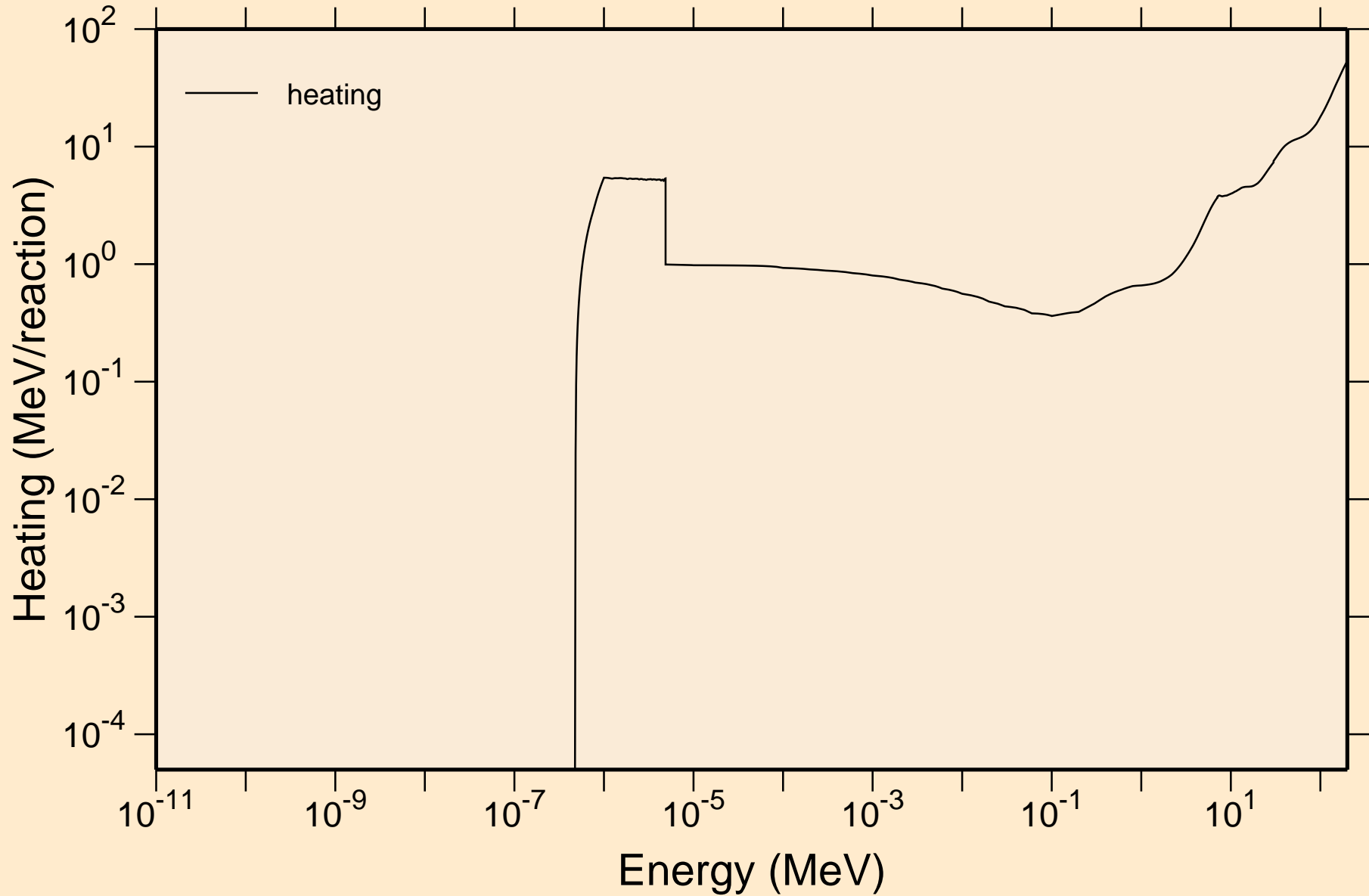
# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



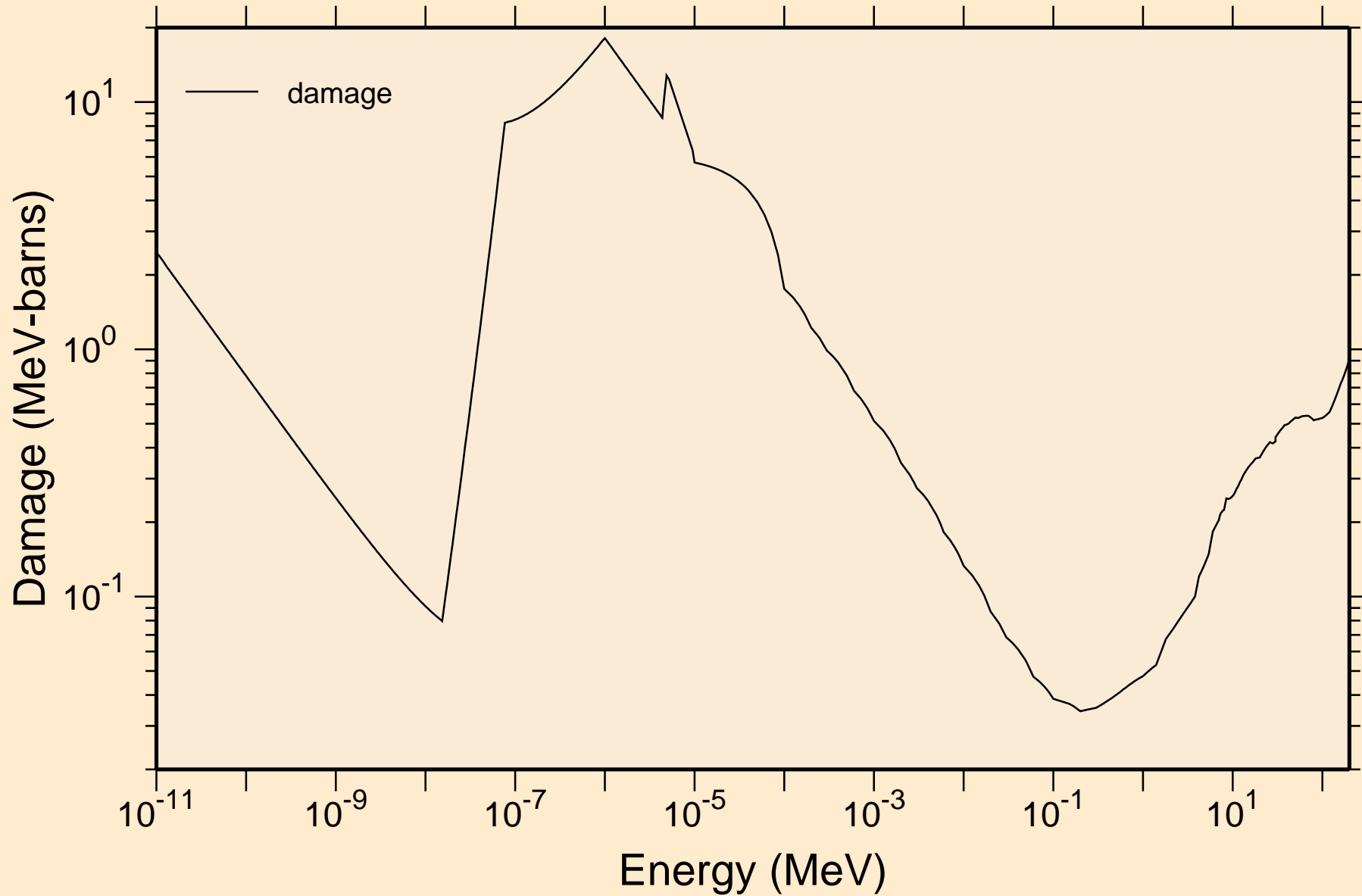
# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



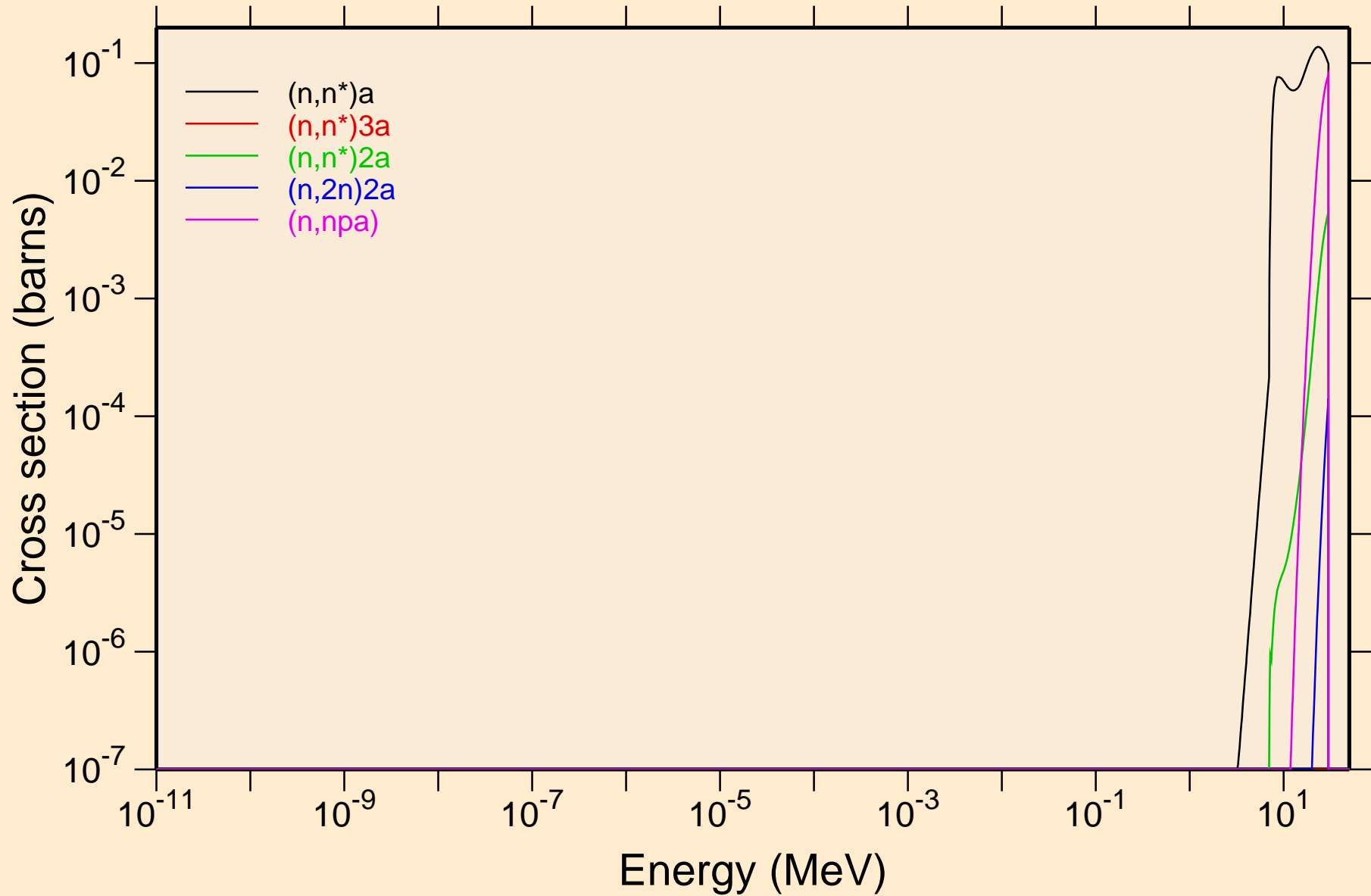
# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage



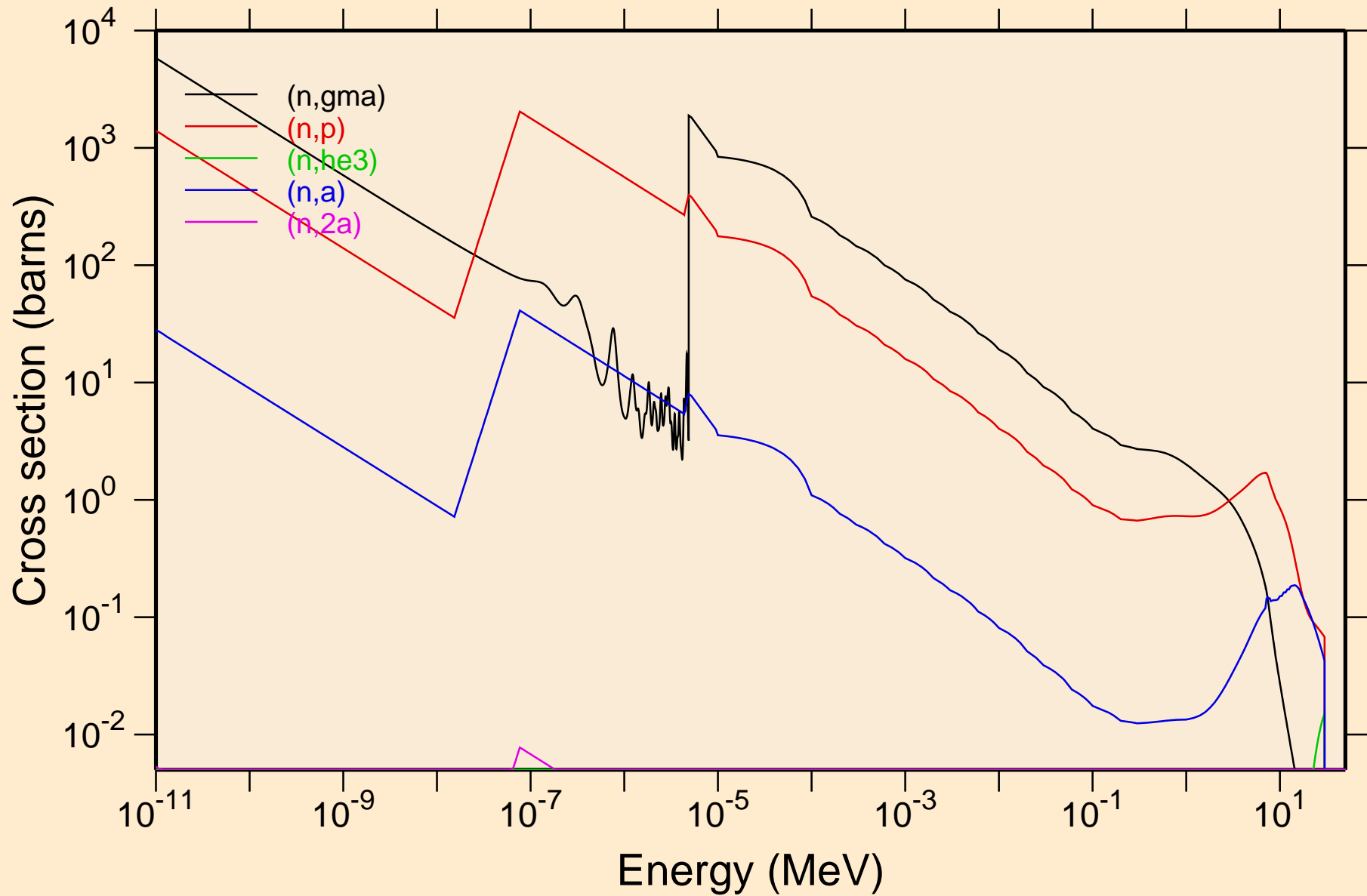
# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

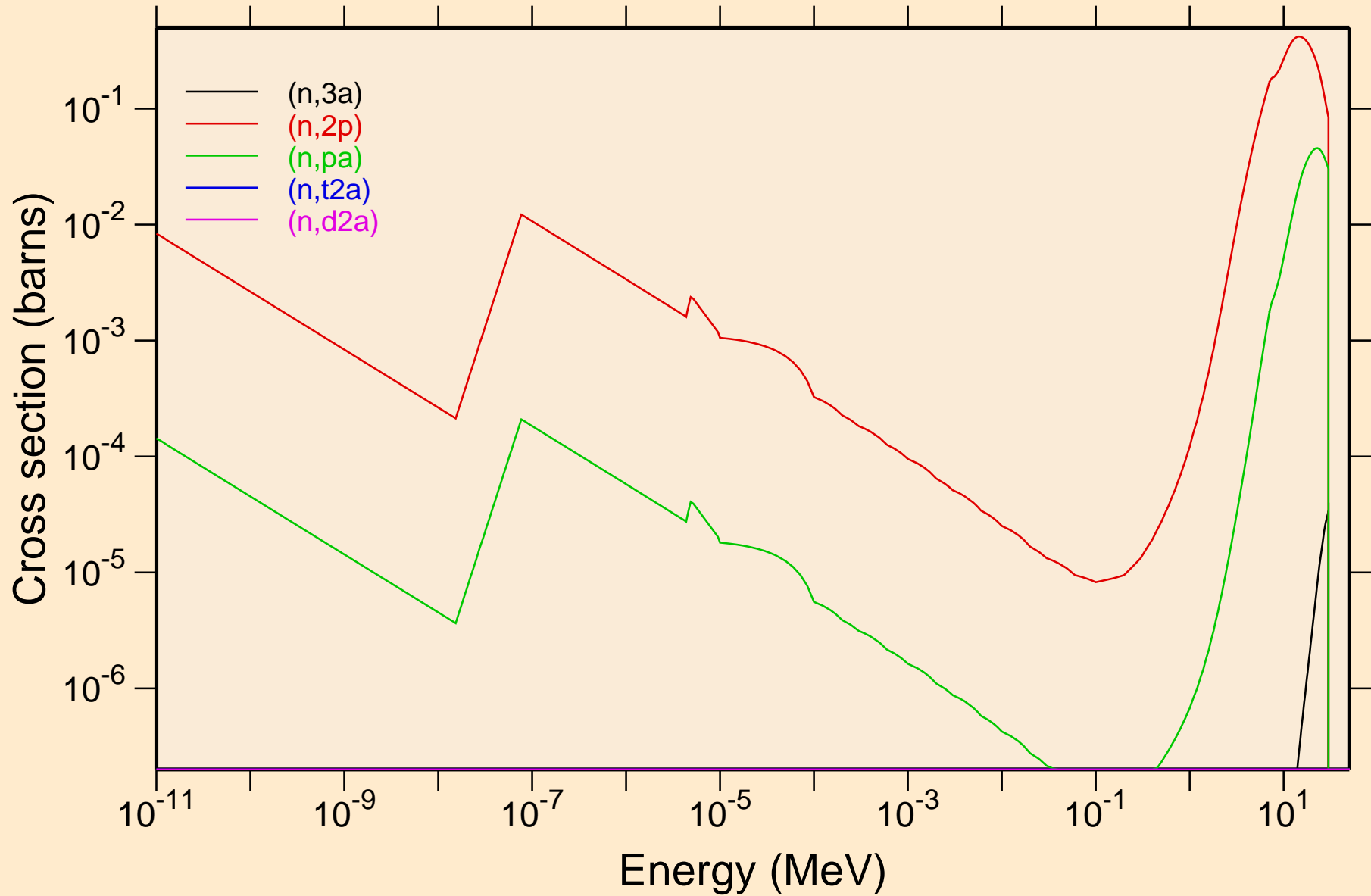


# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

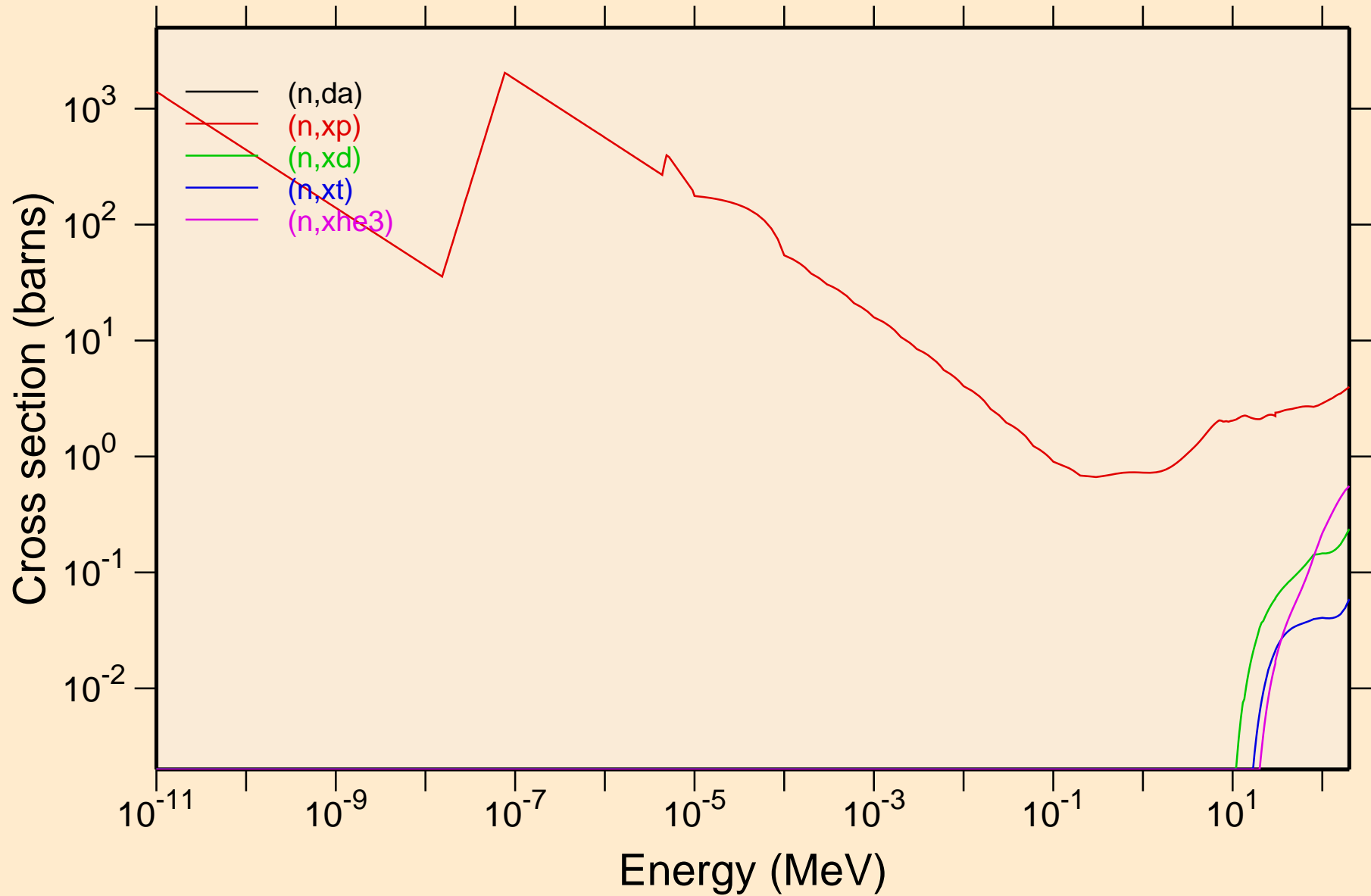


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

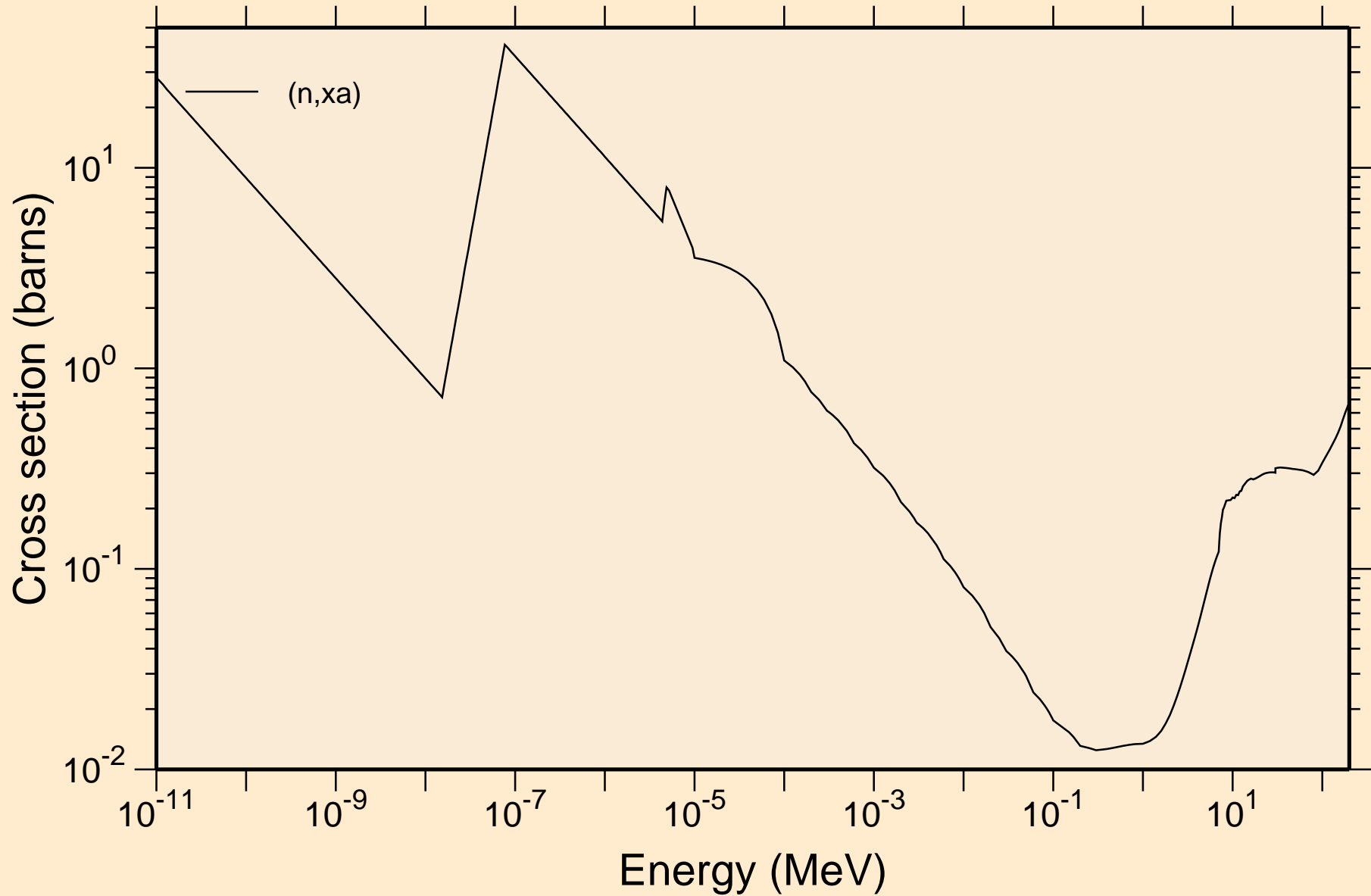


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## Non-threshold reactions



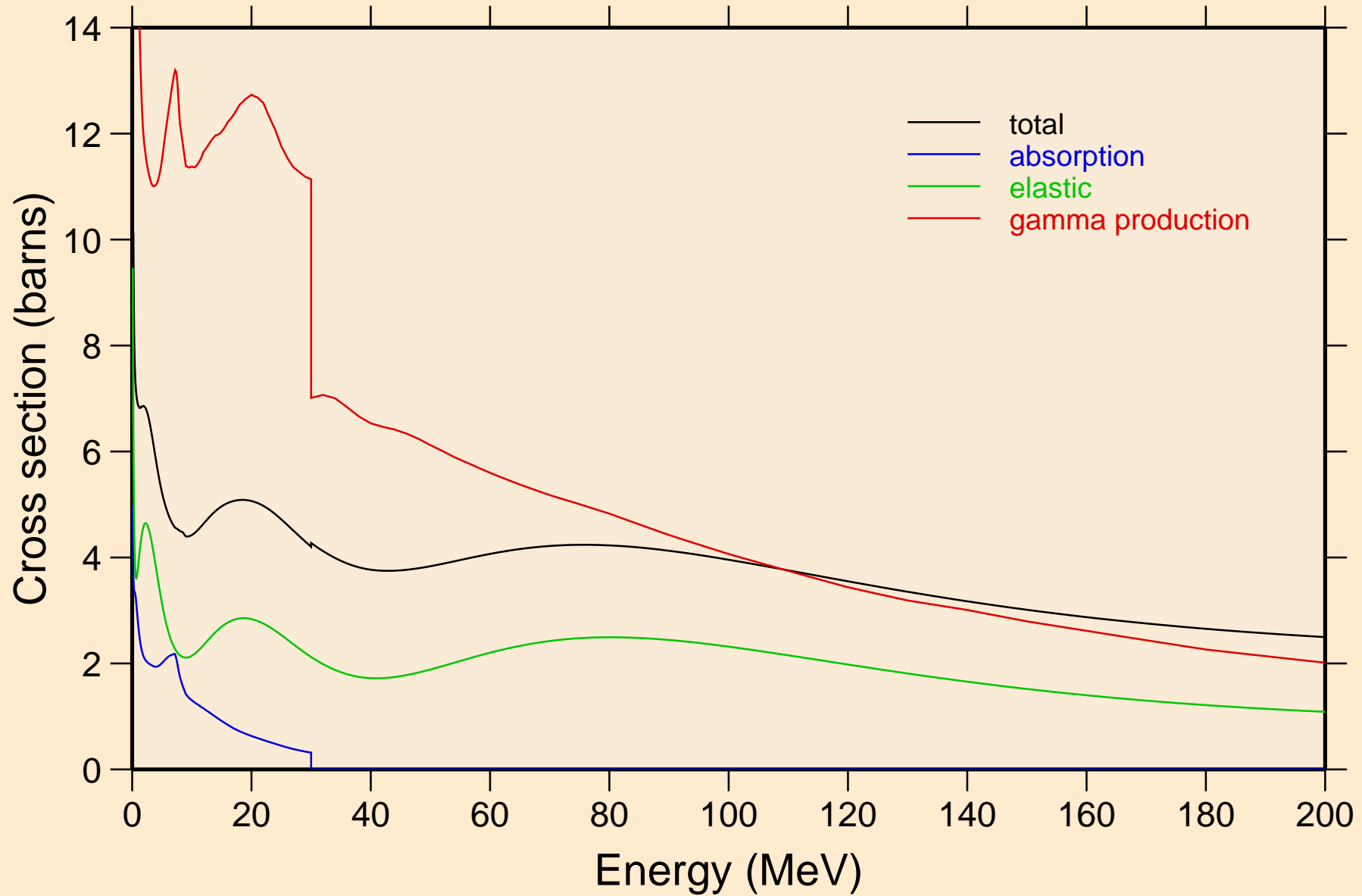
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions





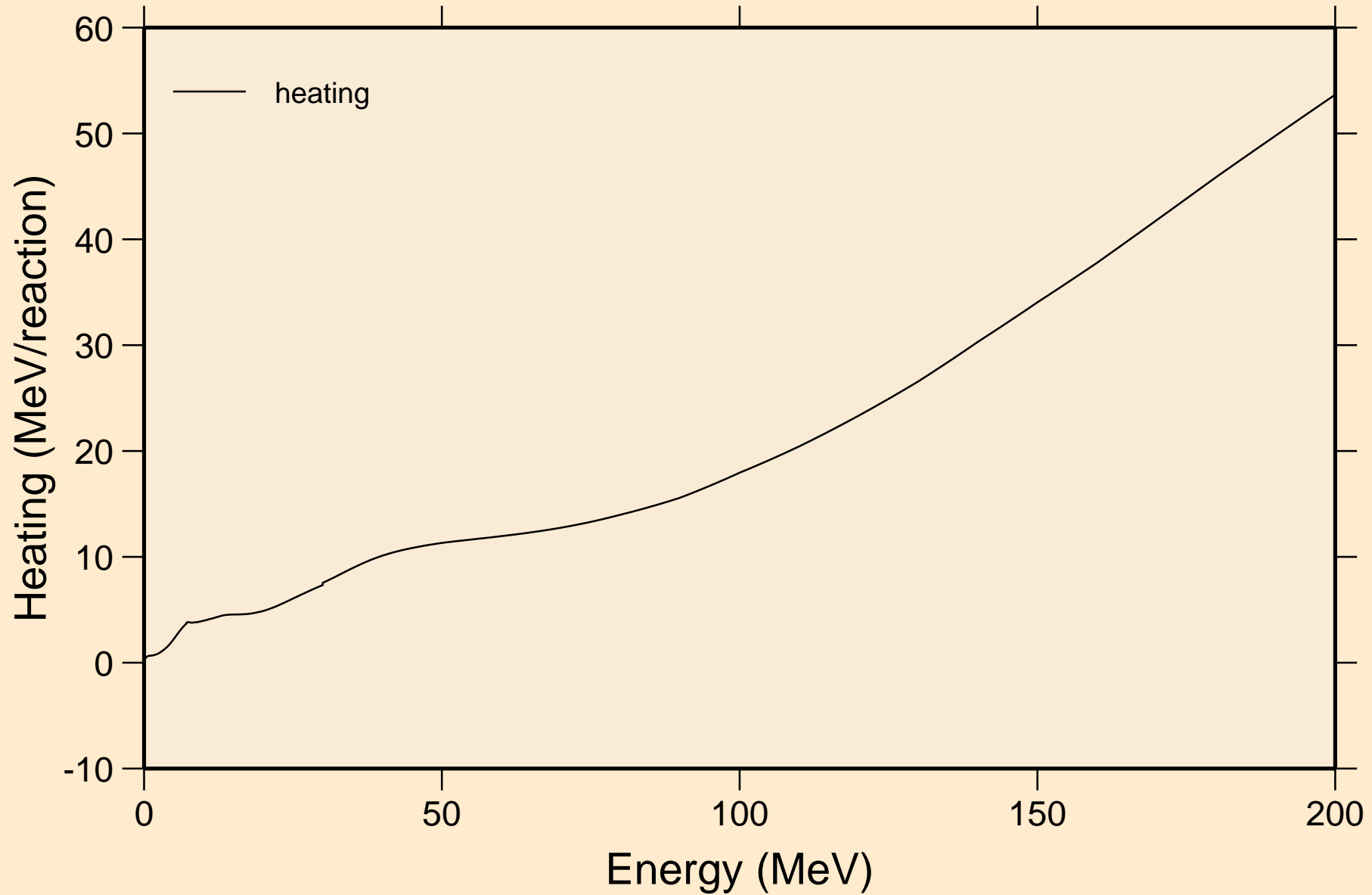
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## Principal cross sections



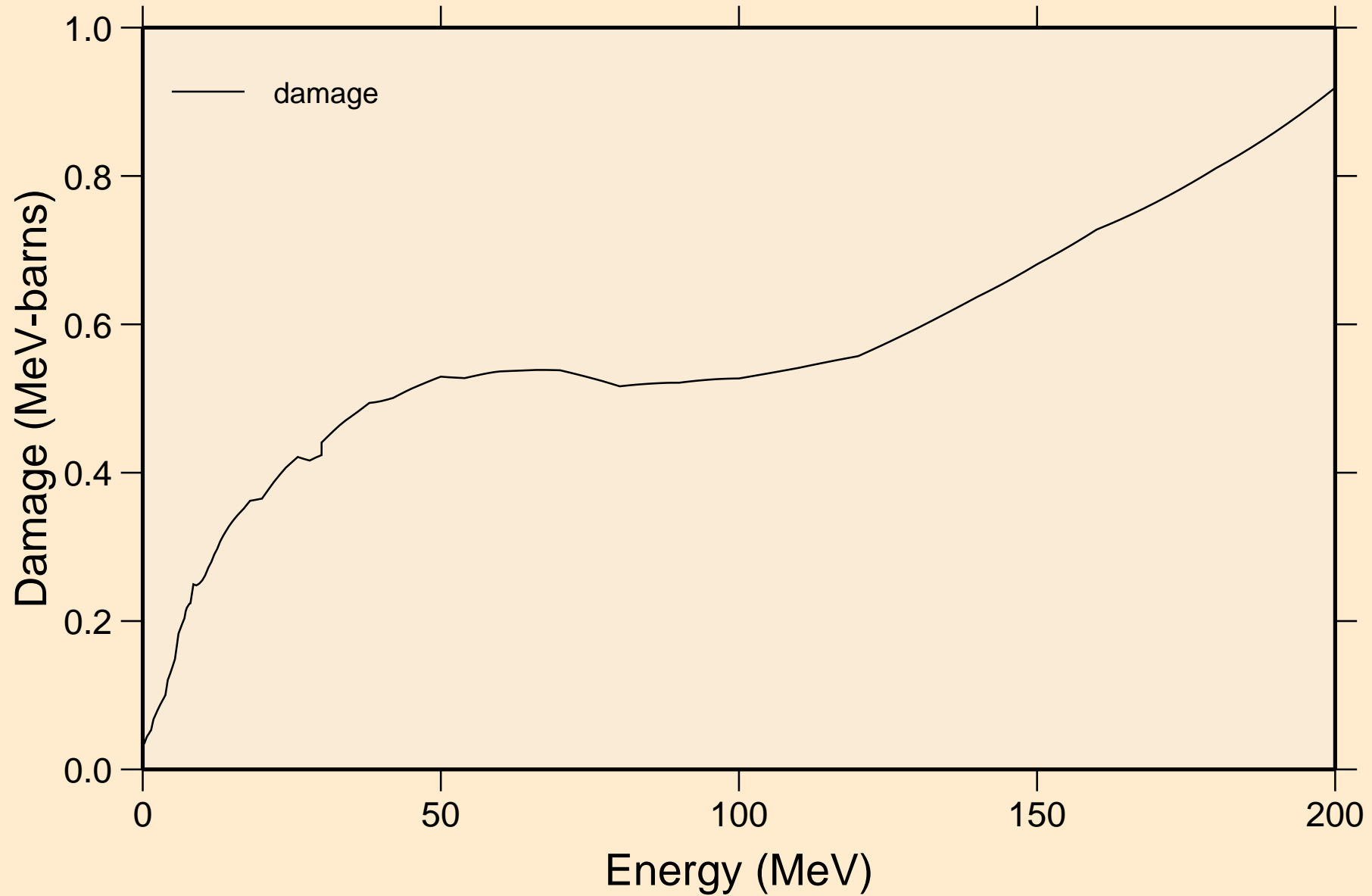
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## Heating



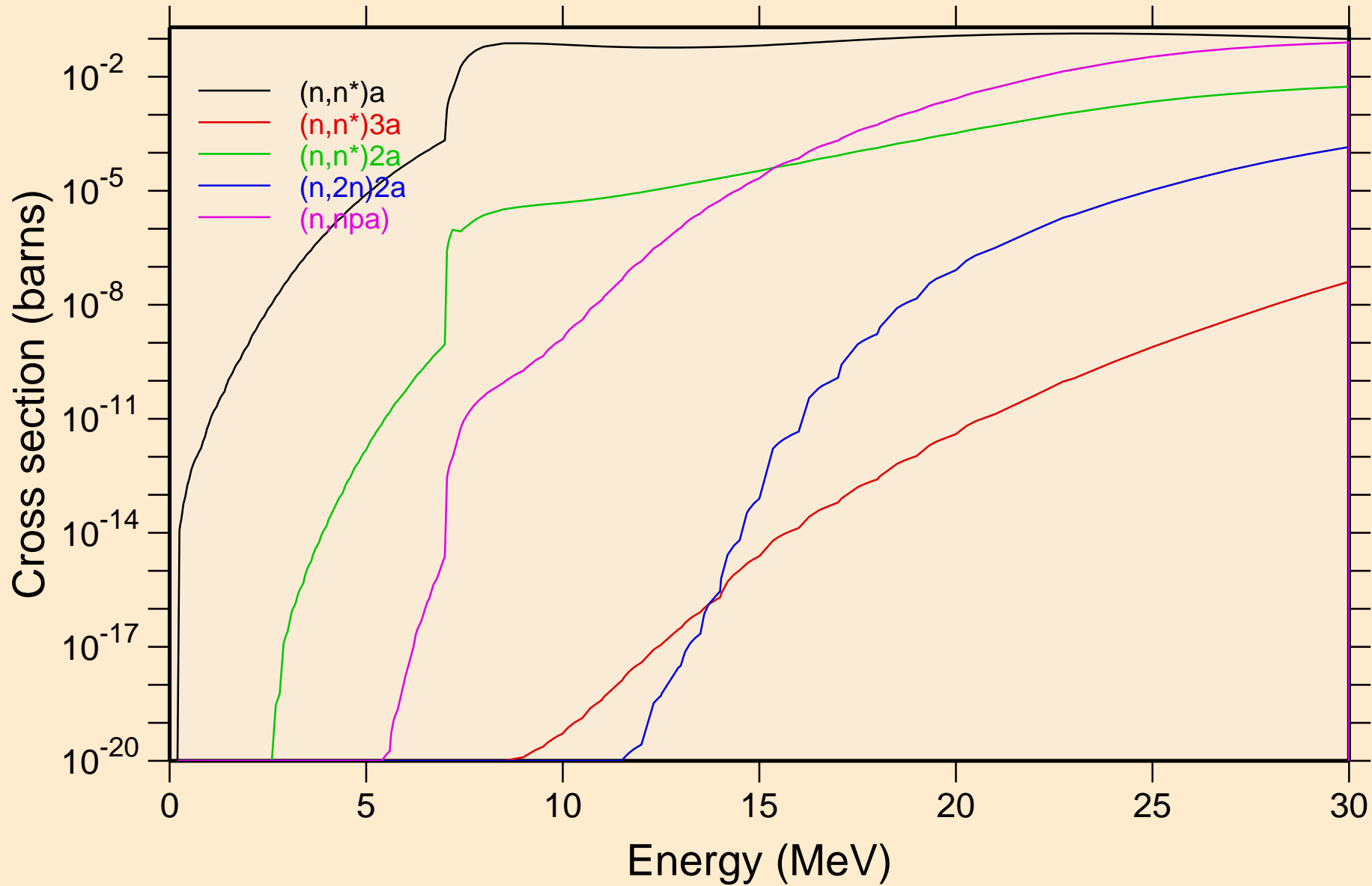
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## Damage



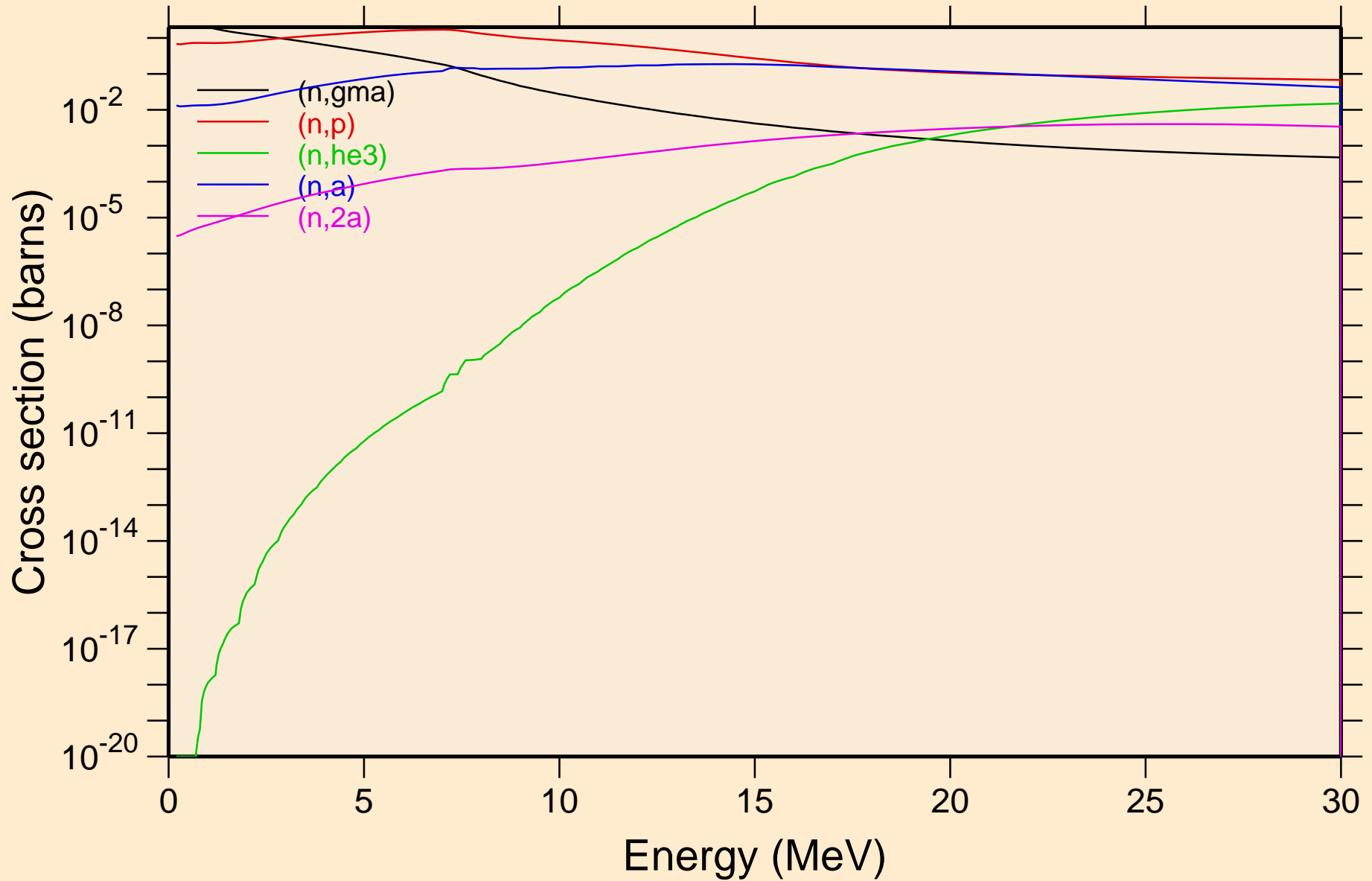
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## Non-threshold reactions



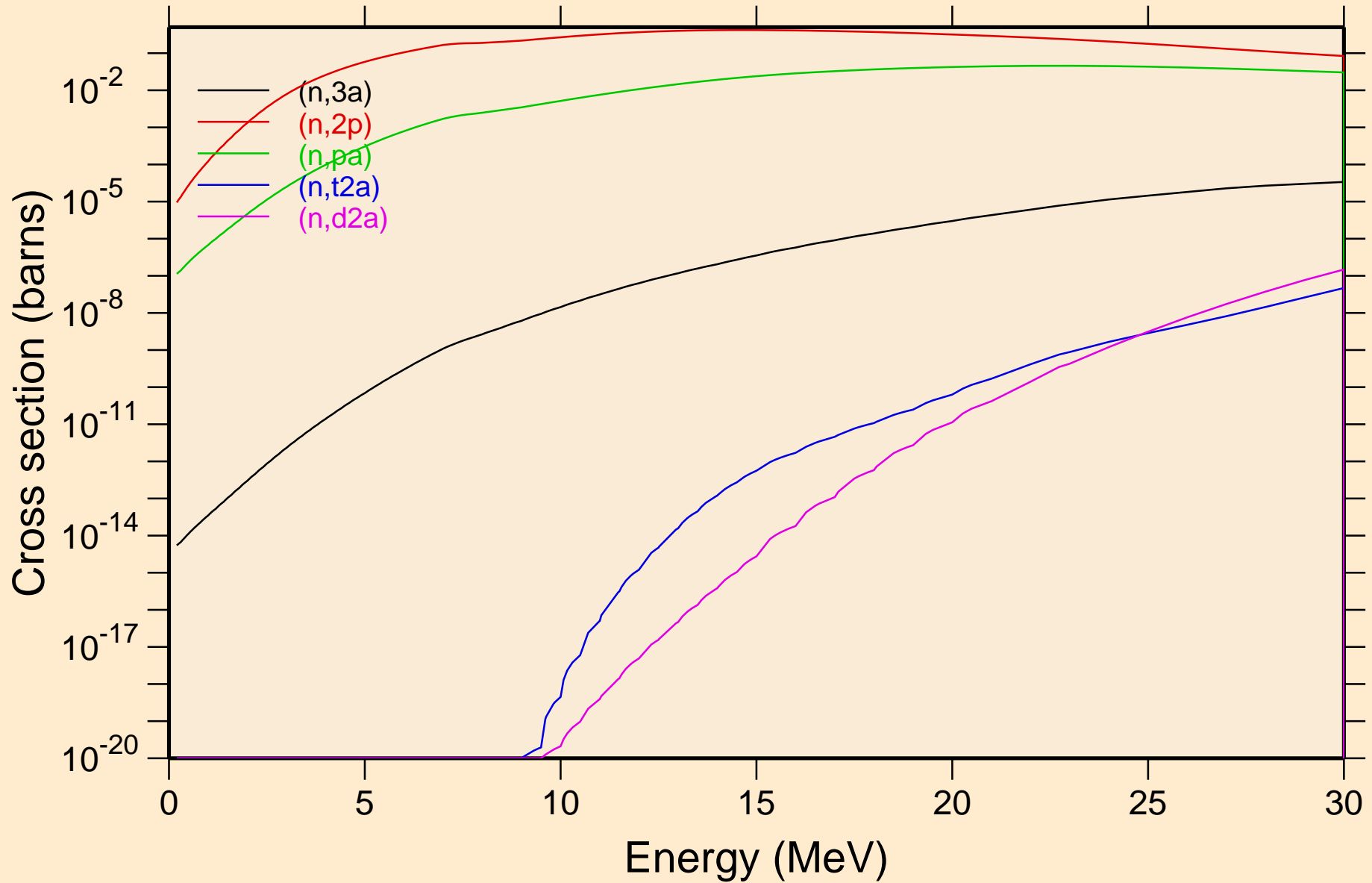
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## Non-threshold reactions



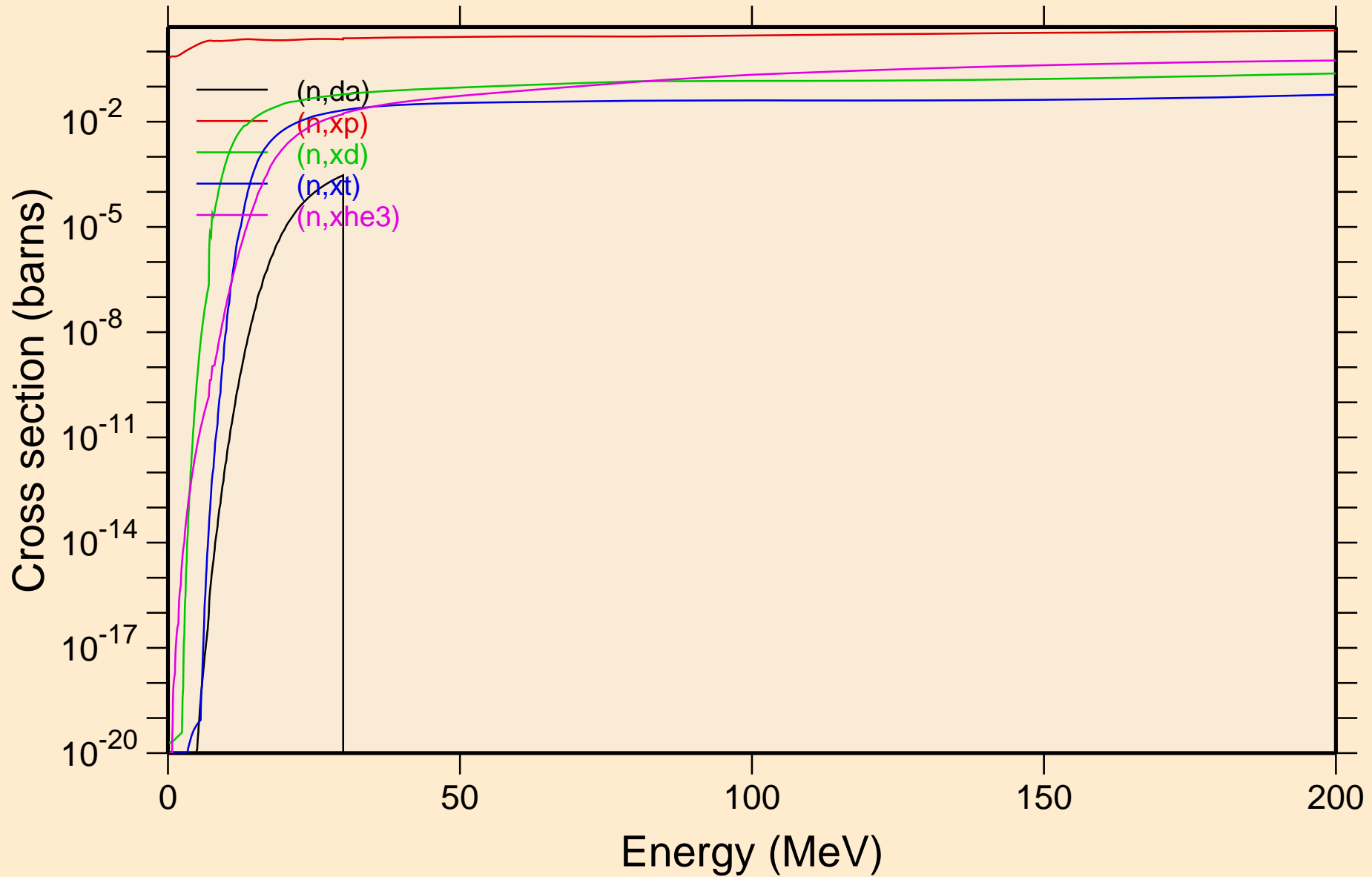
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## Non-threshold reactions

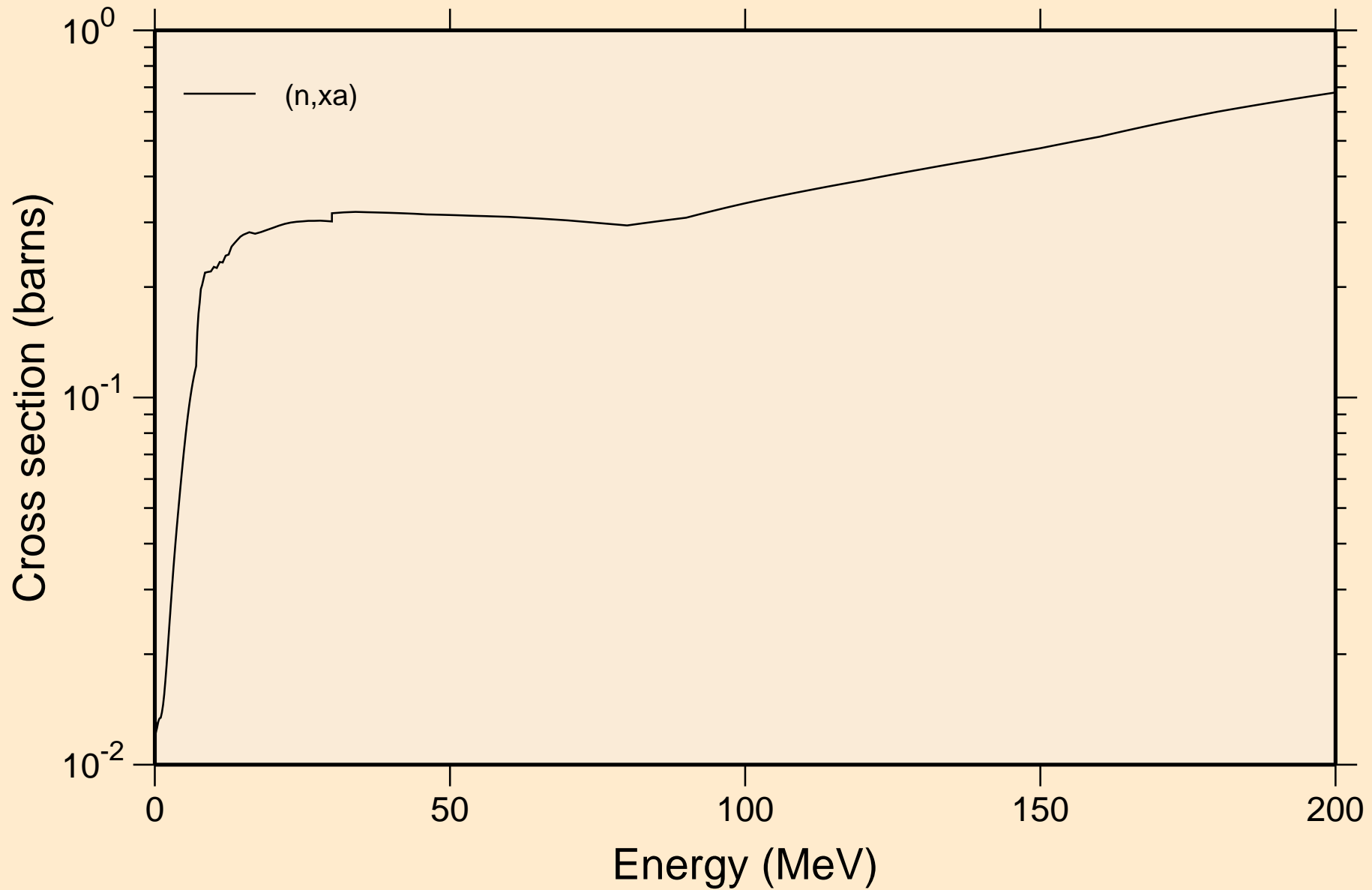


# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions



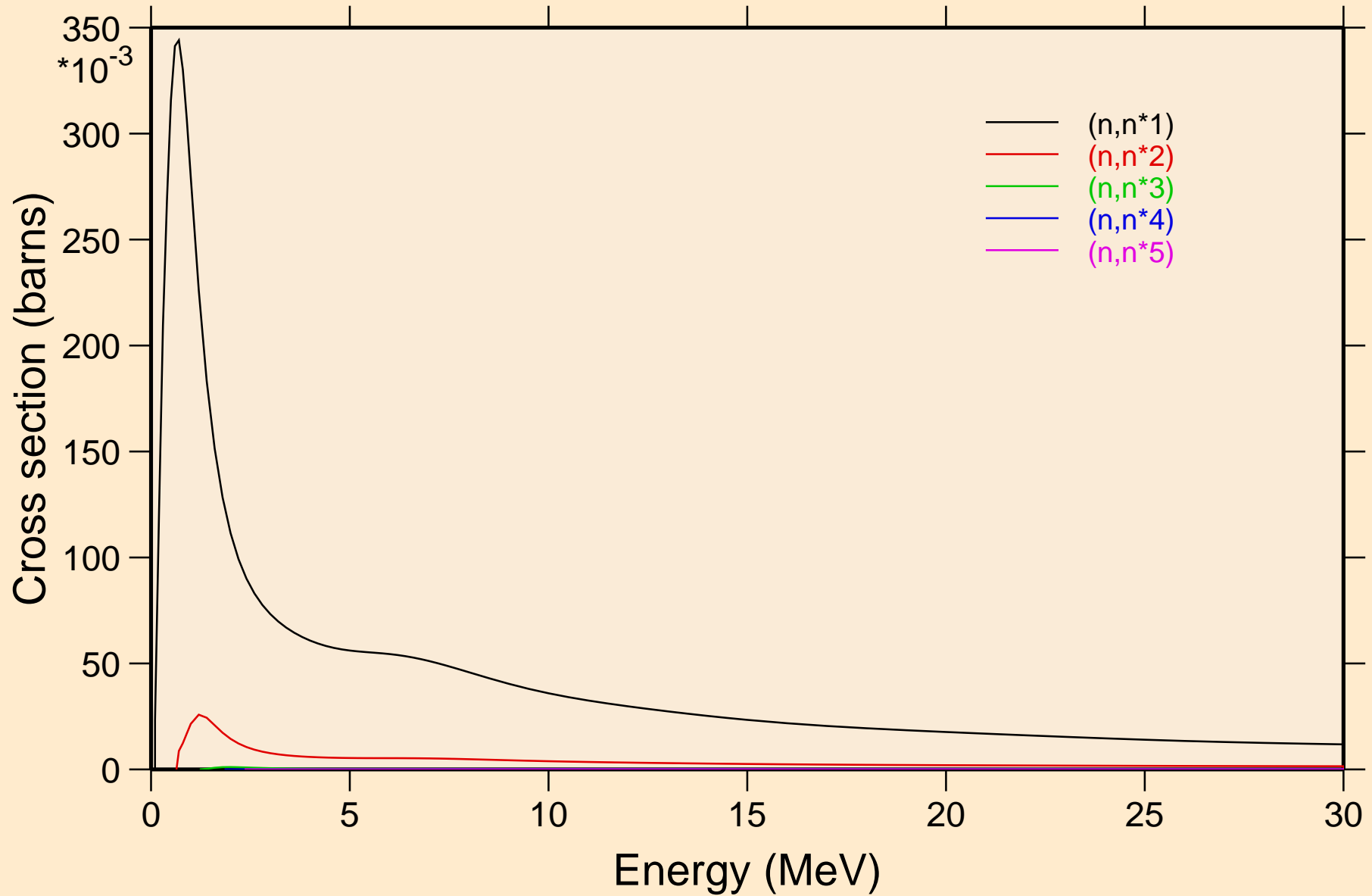
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



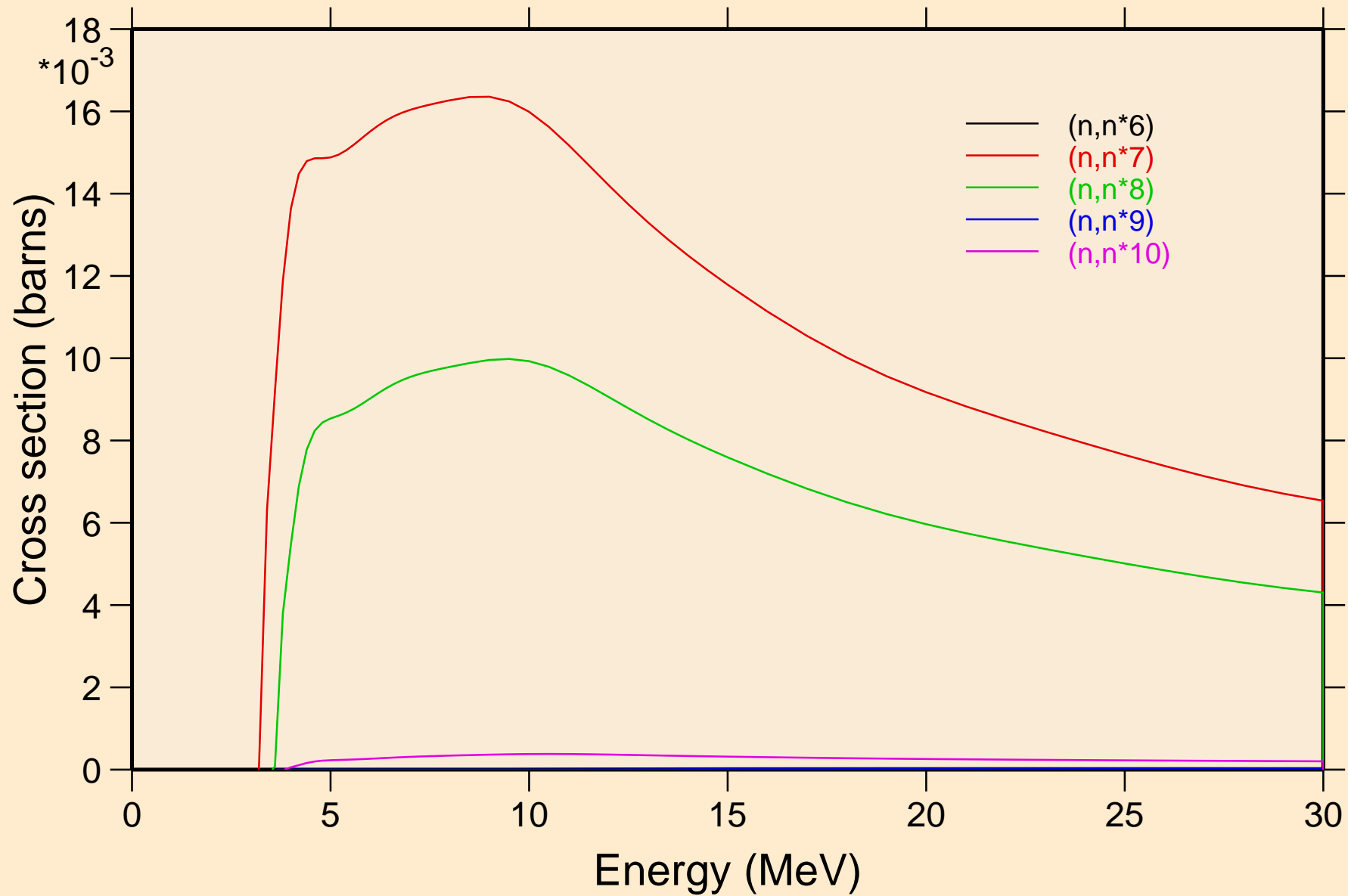


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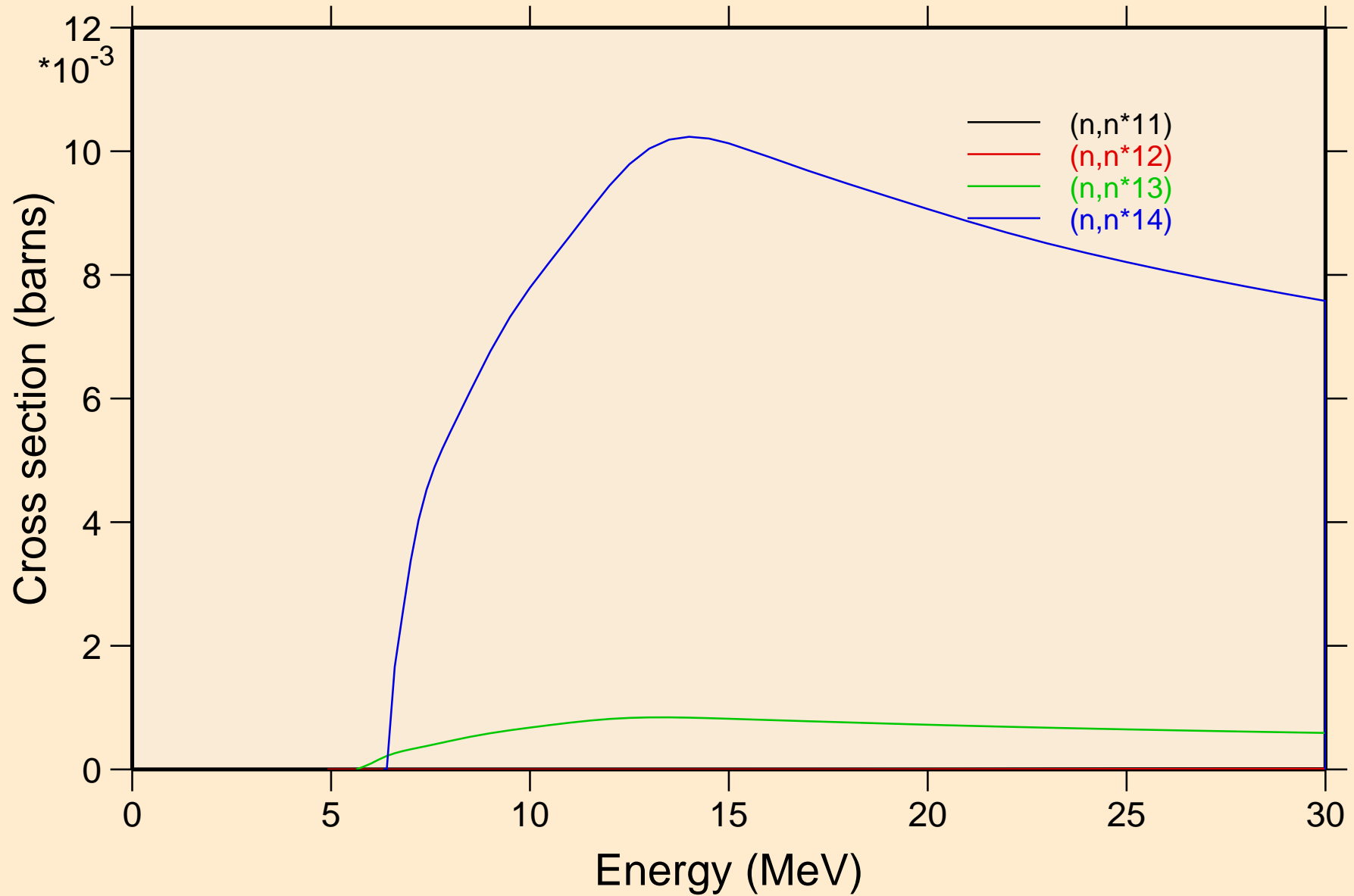
## Inelastic levels



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

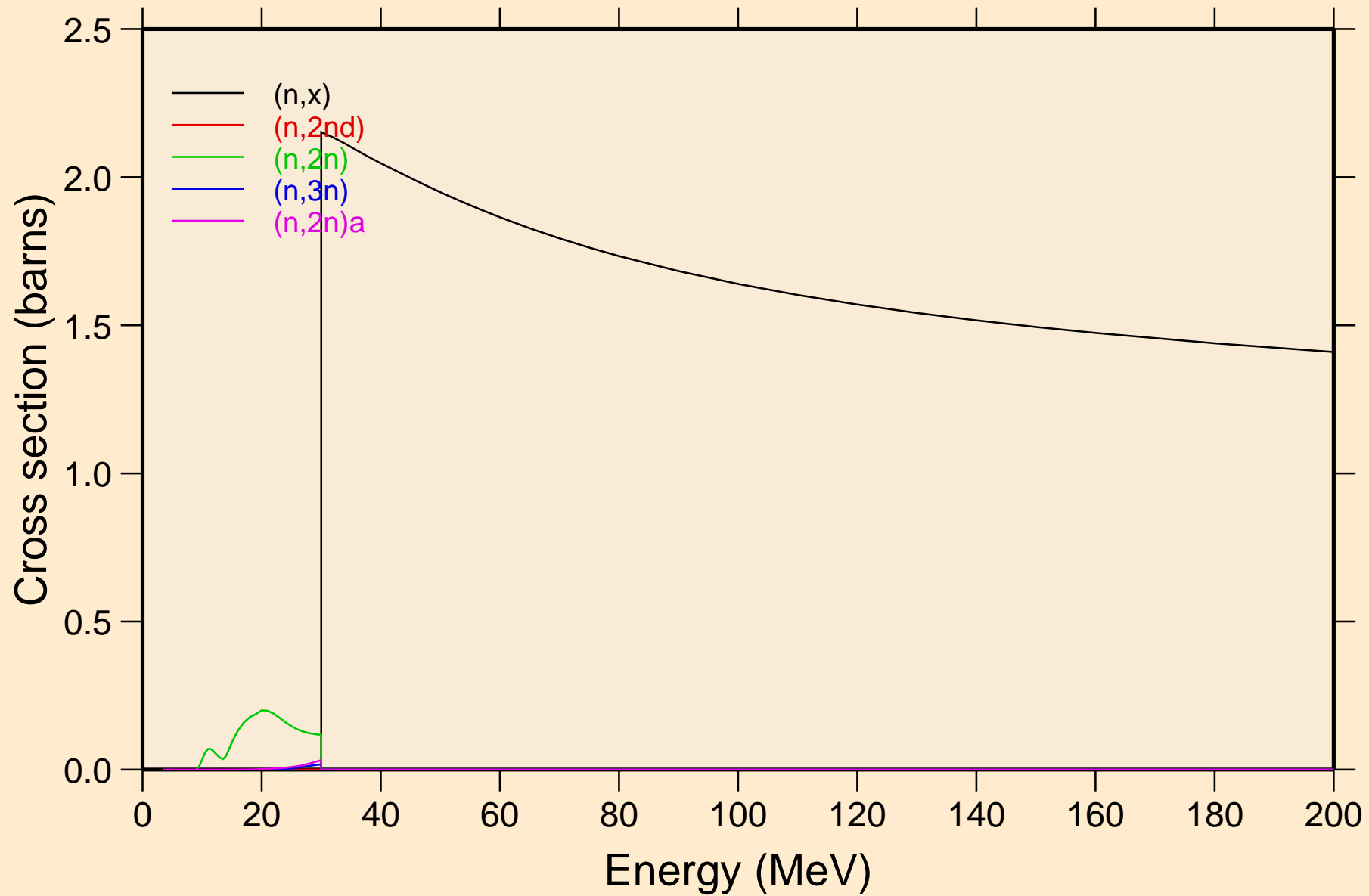


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



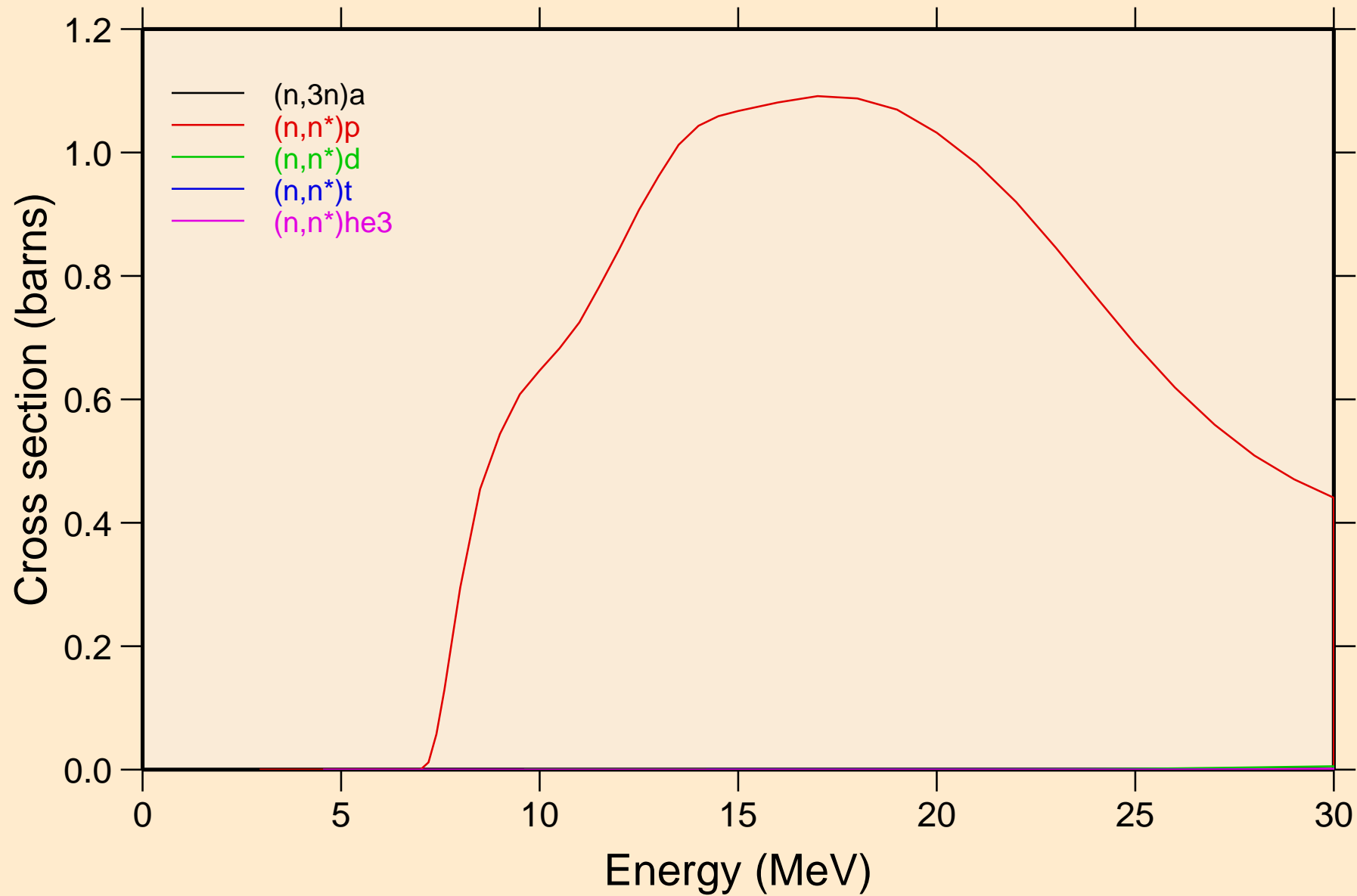
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## Threshold reactions



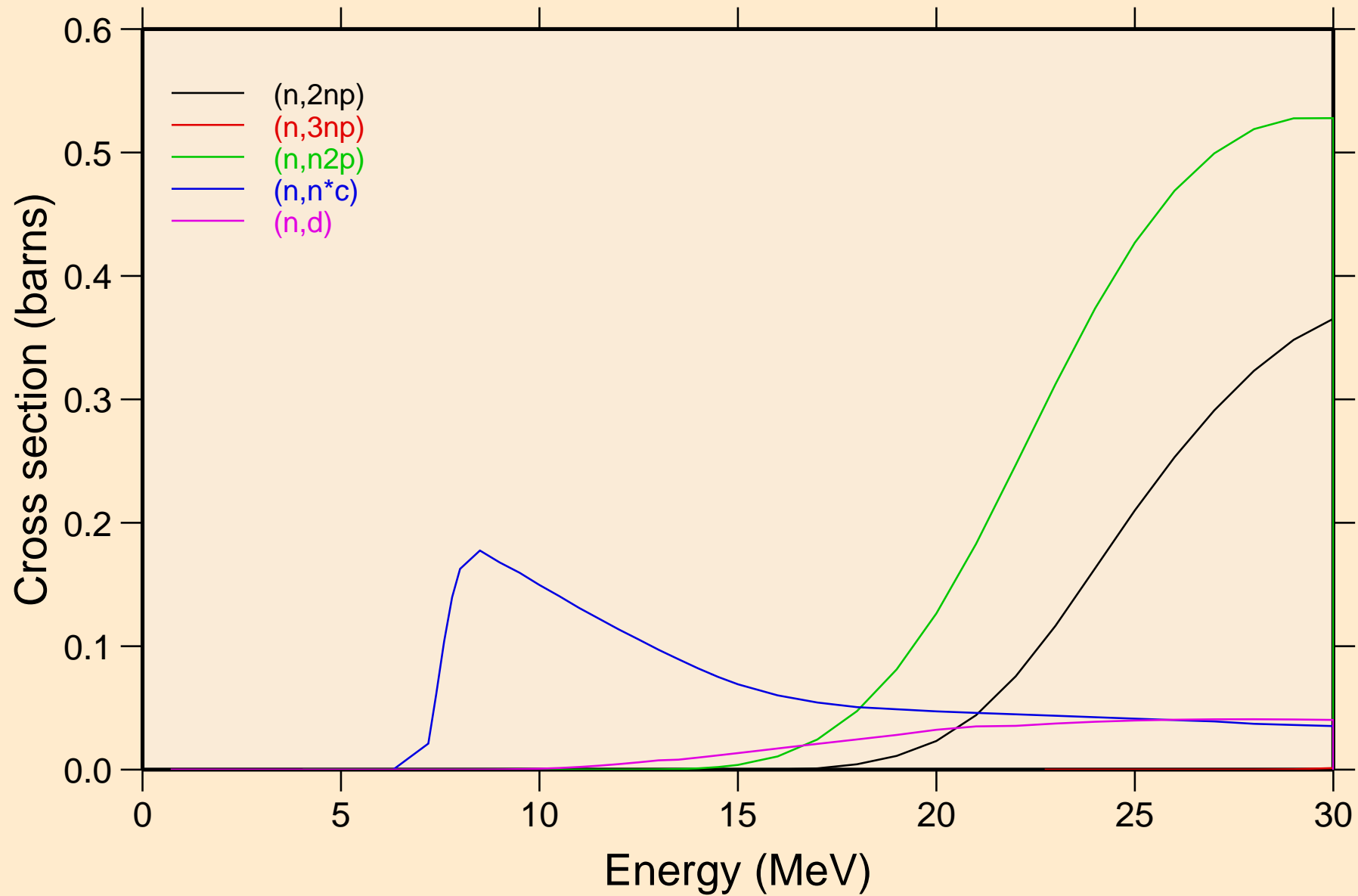
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## Threshold reactions

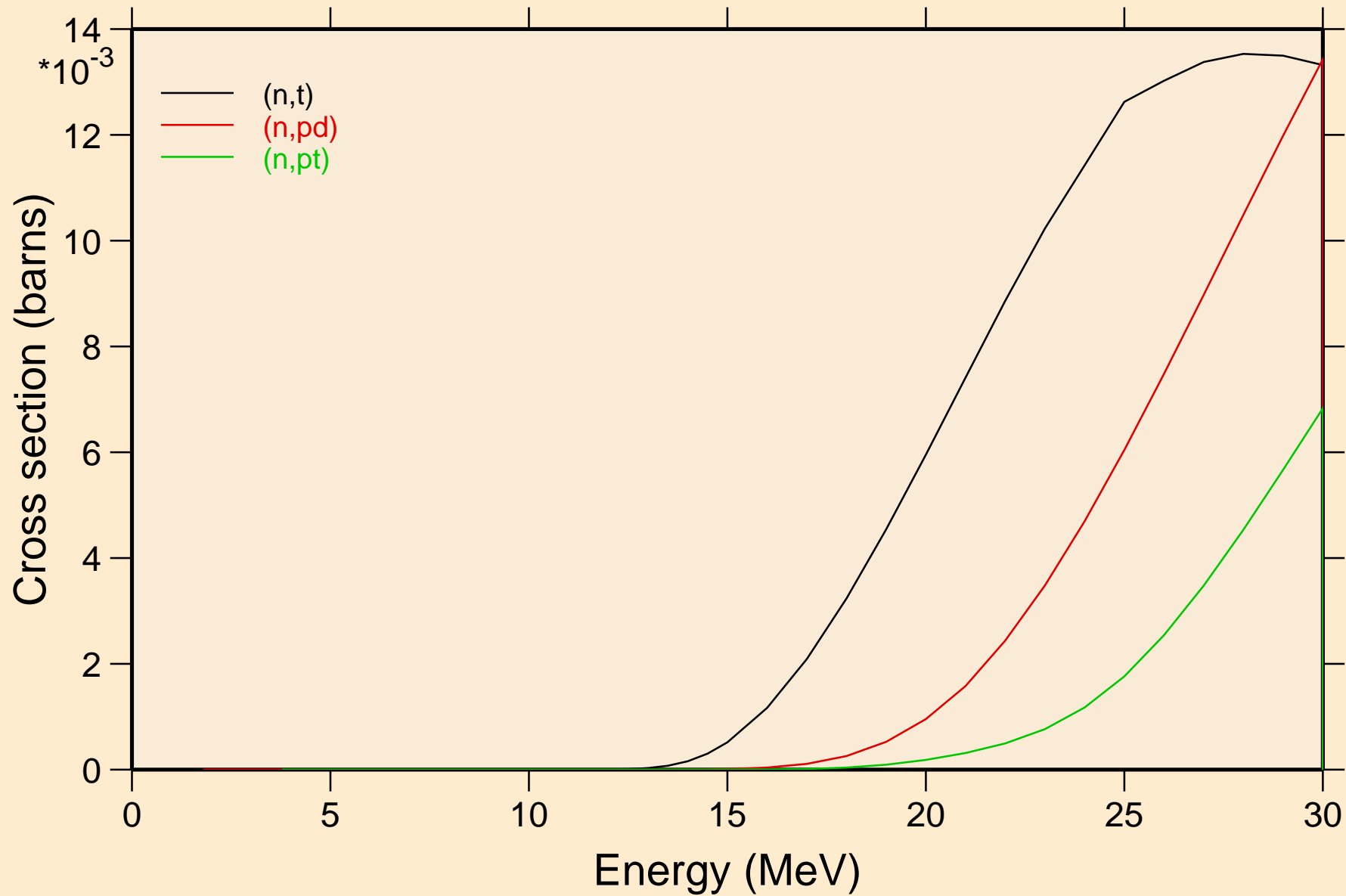


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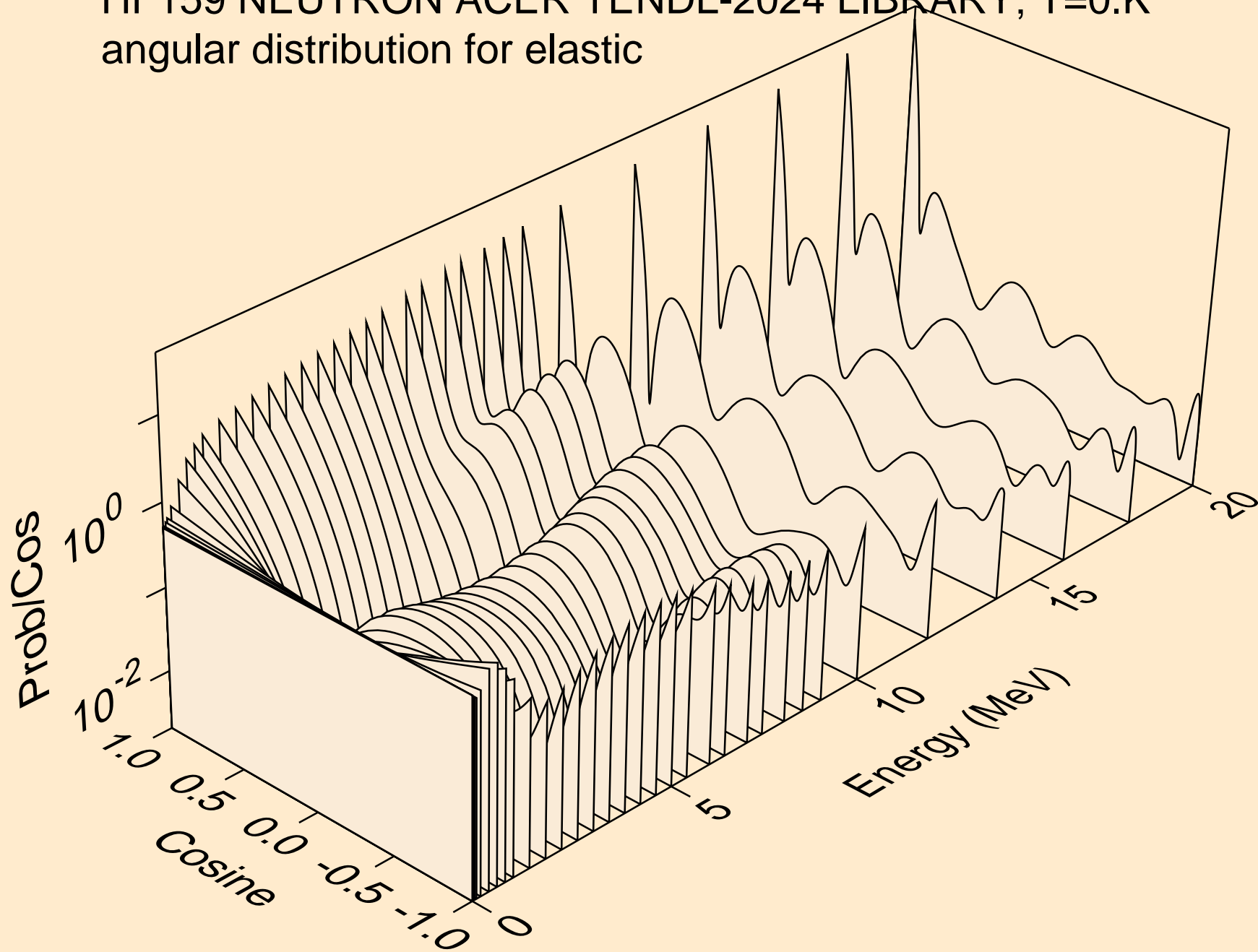
## Threshold reactions



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

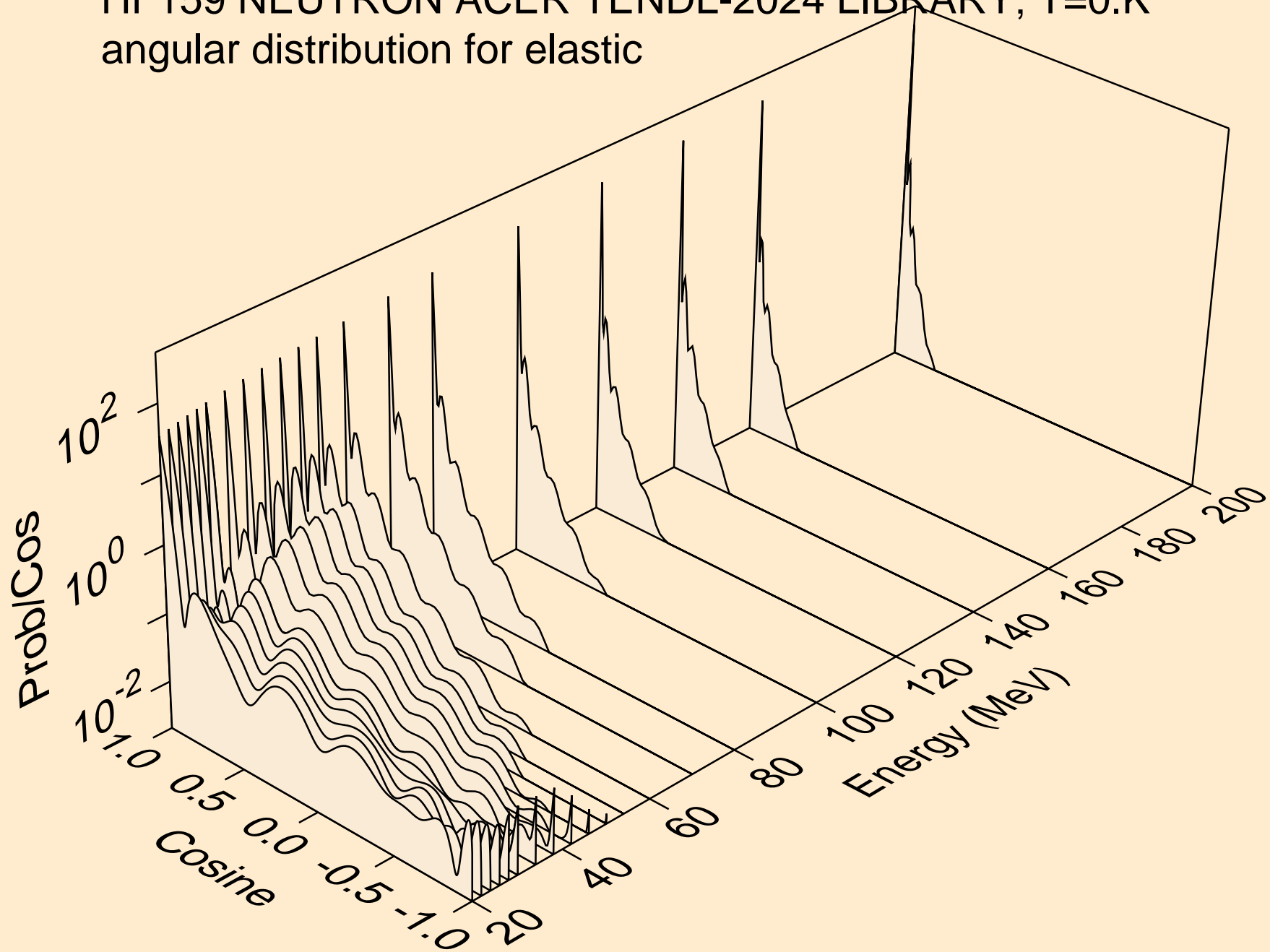


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angular distribution for elastic

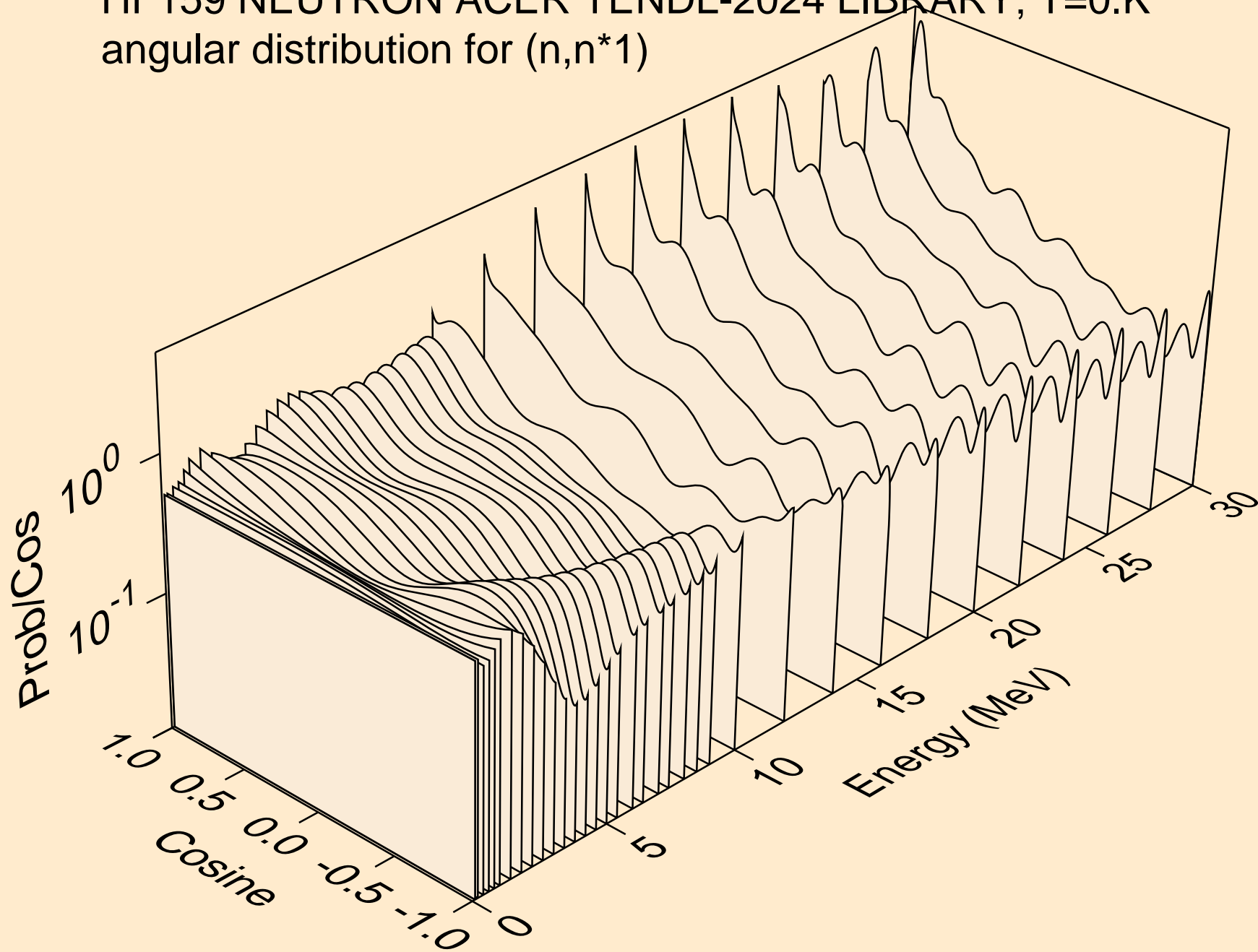




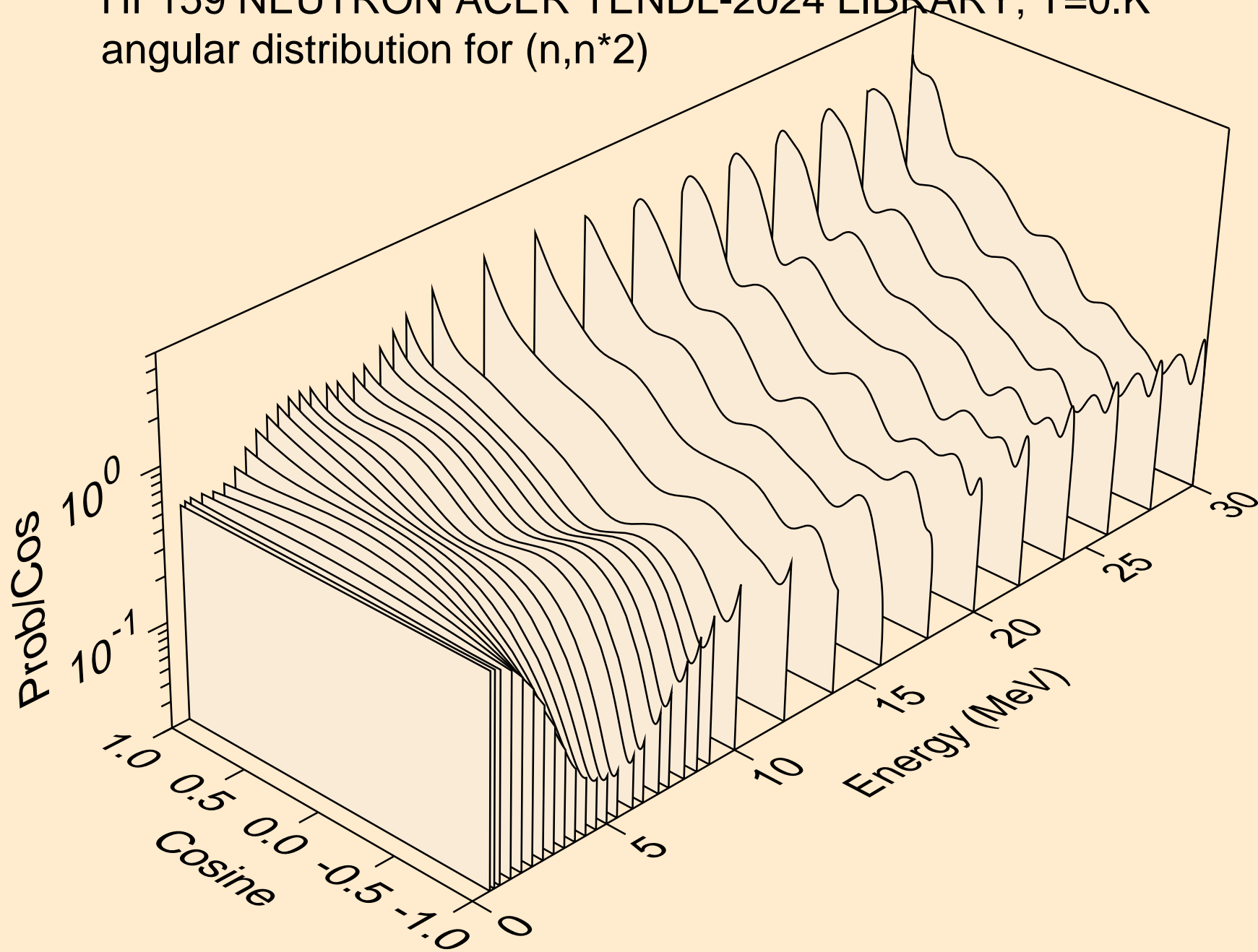
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angular distribution for elastic



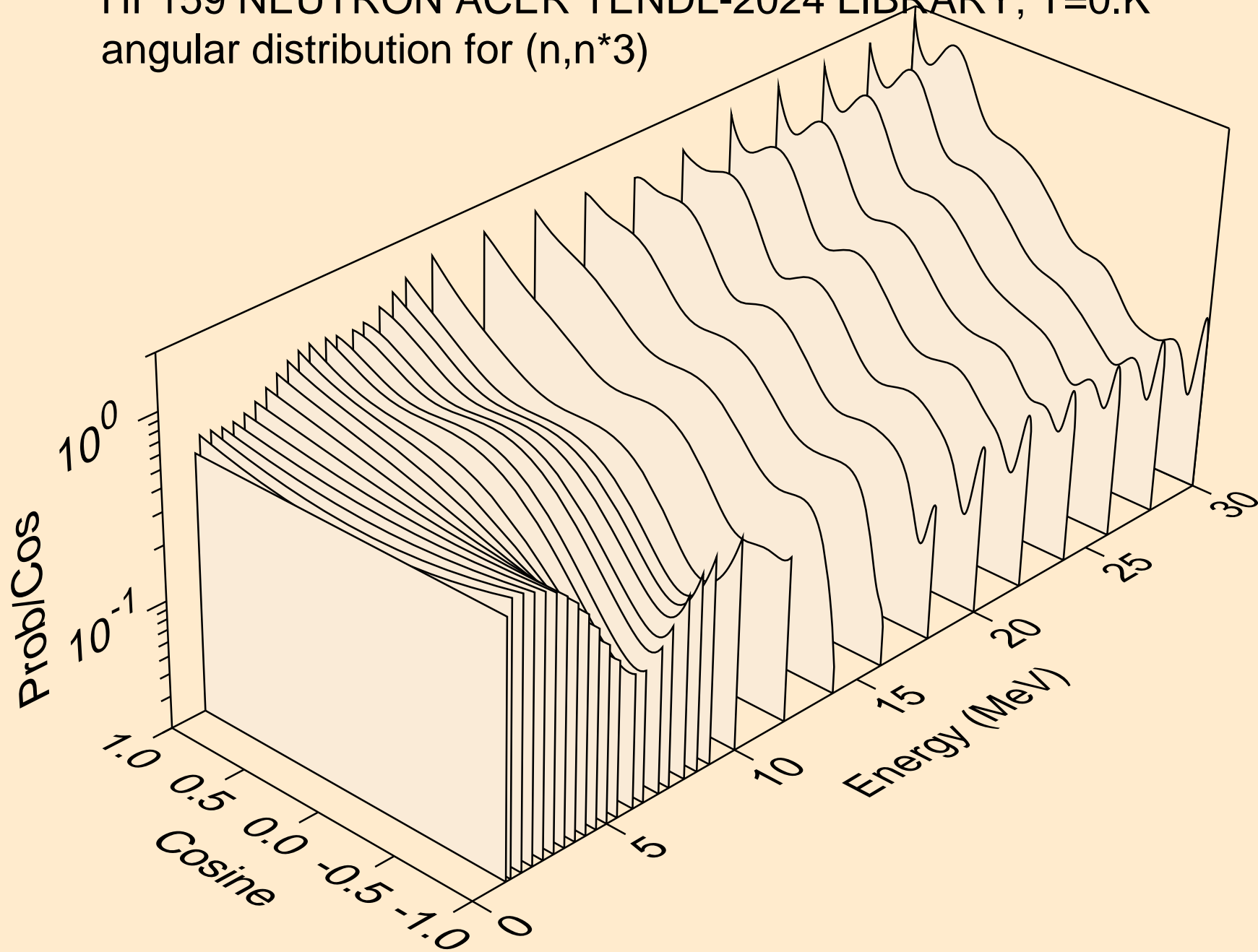
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angular distribution for (n,n\*1)



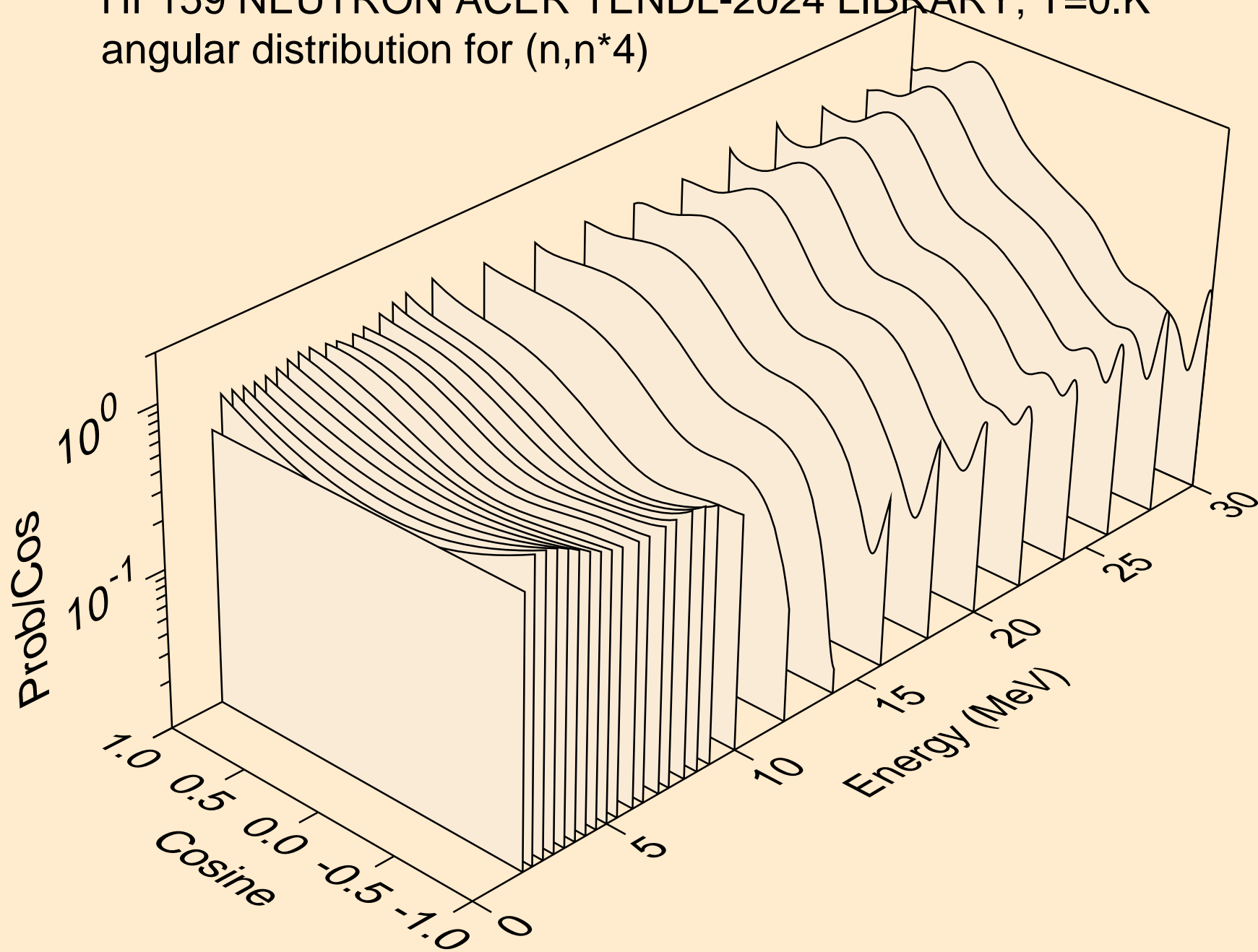
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angular distribution for (n,n\*2)



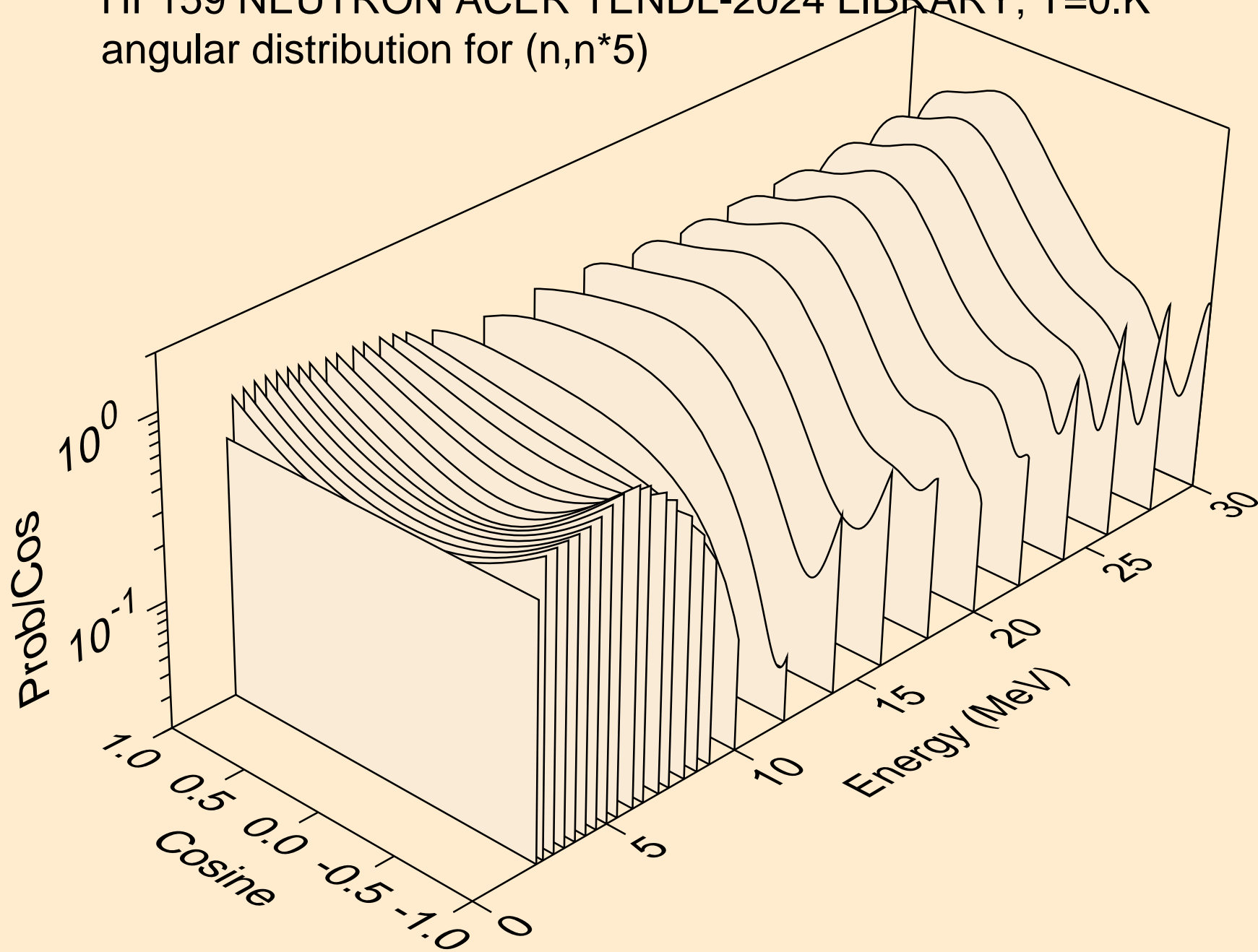
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angular distribution for (n,n\*3)



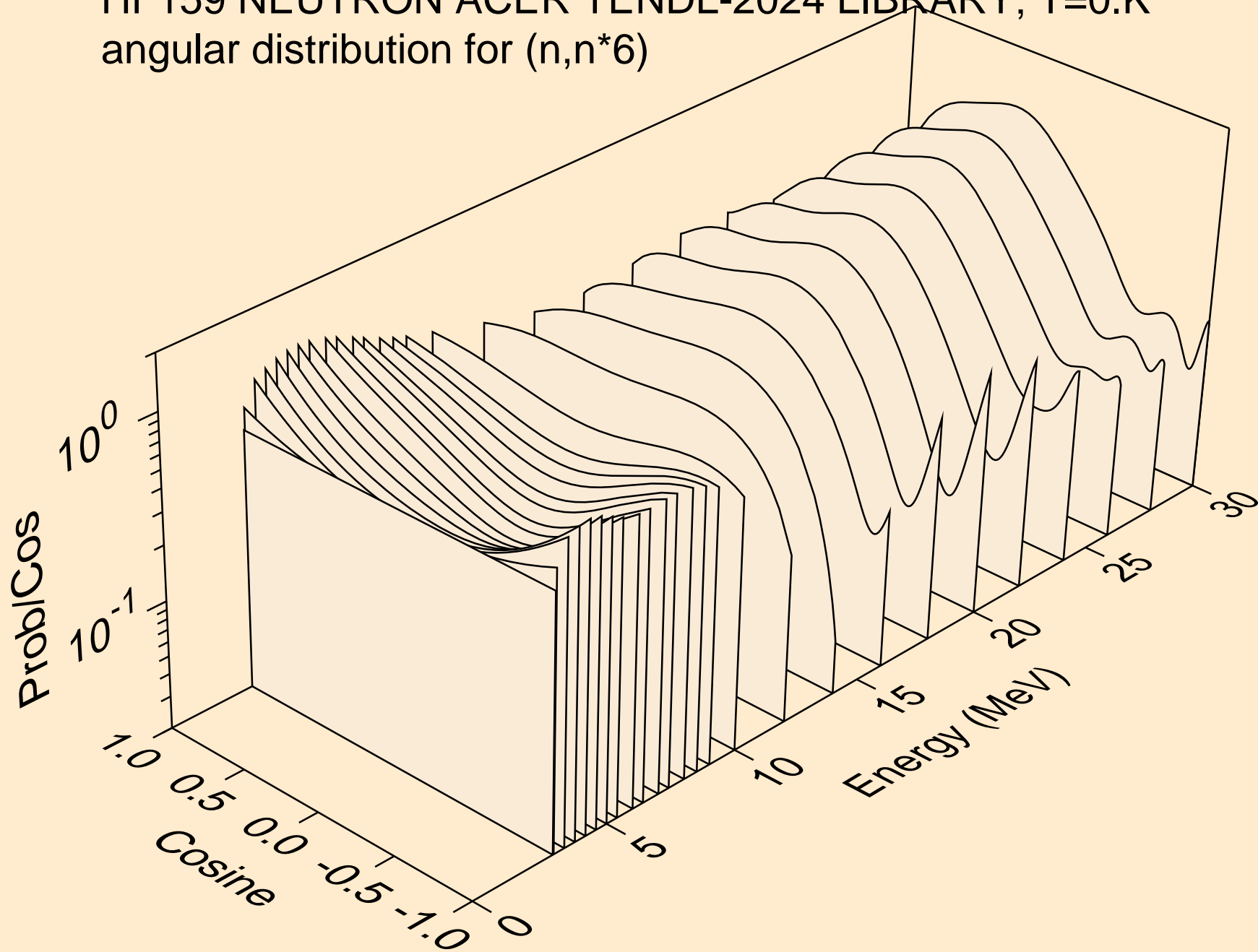
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angular distribution for (n,n\*4)



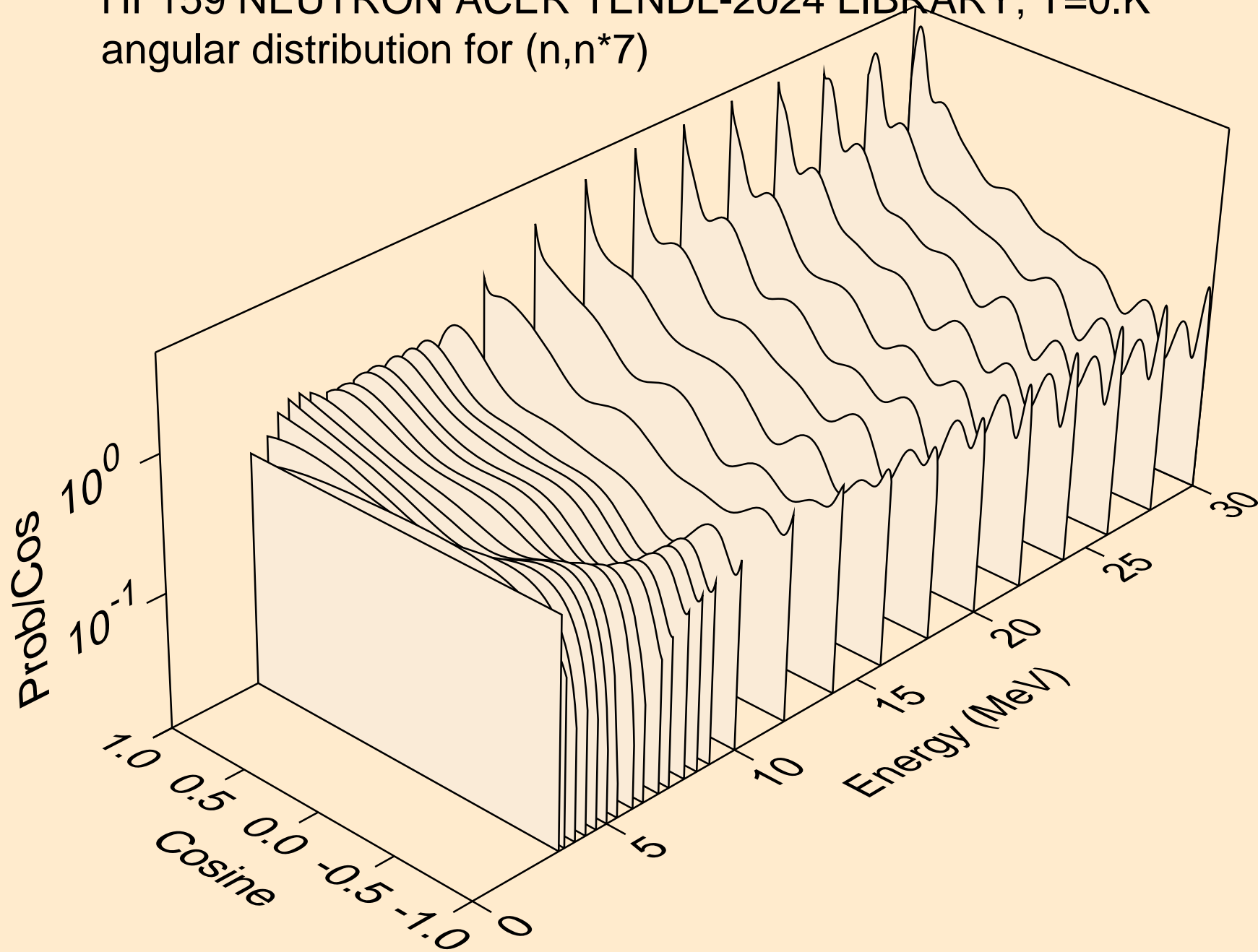
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

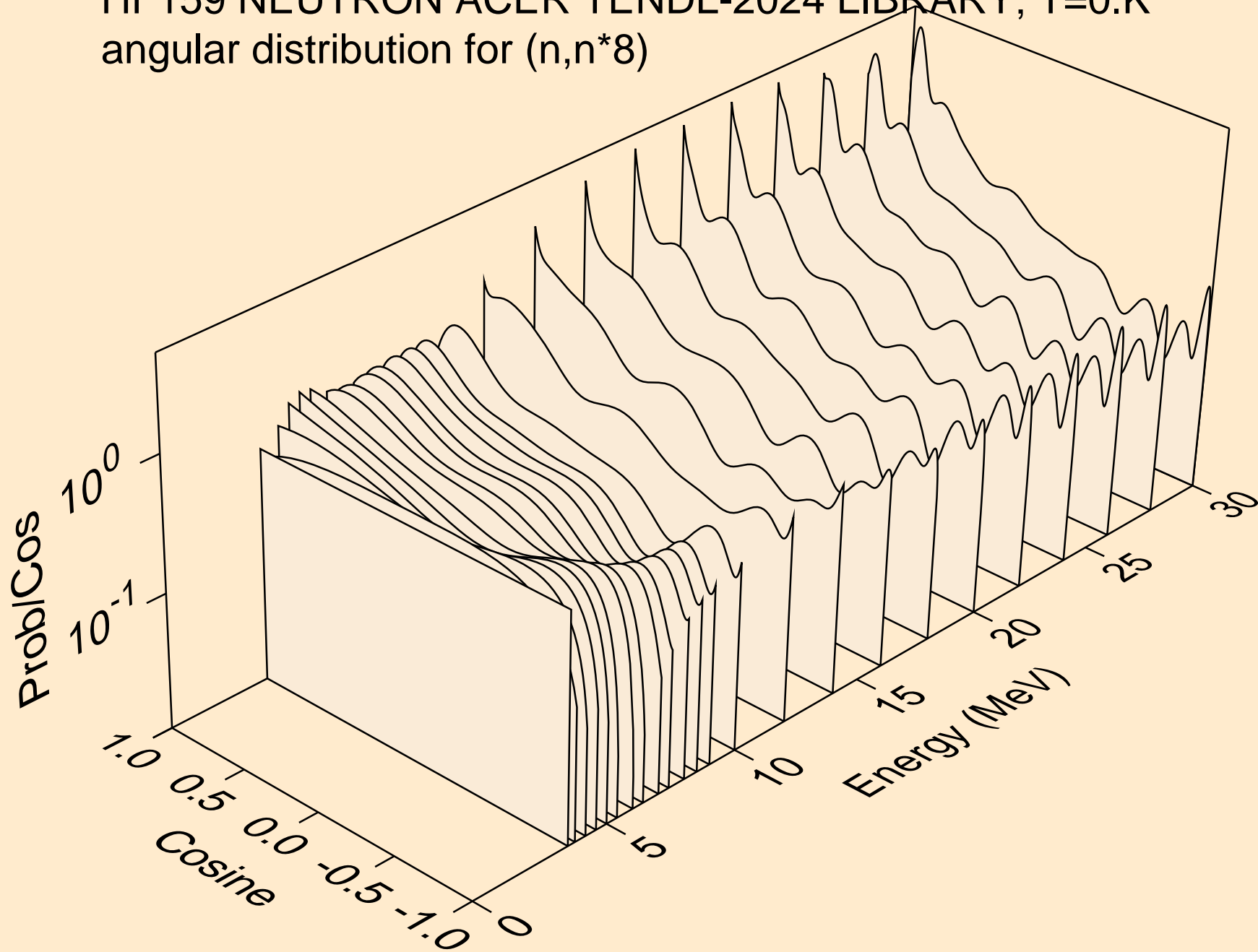


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angular distribution for (n,n\*7)

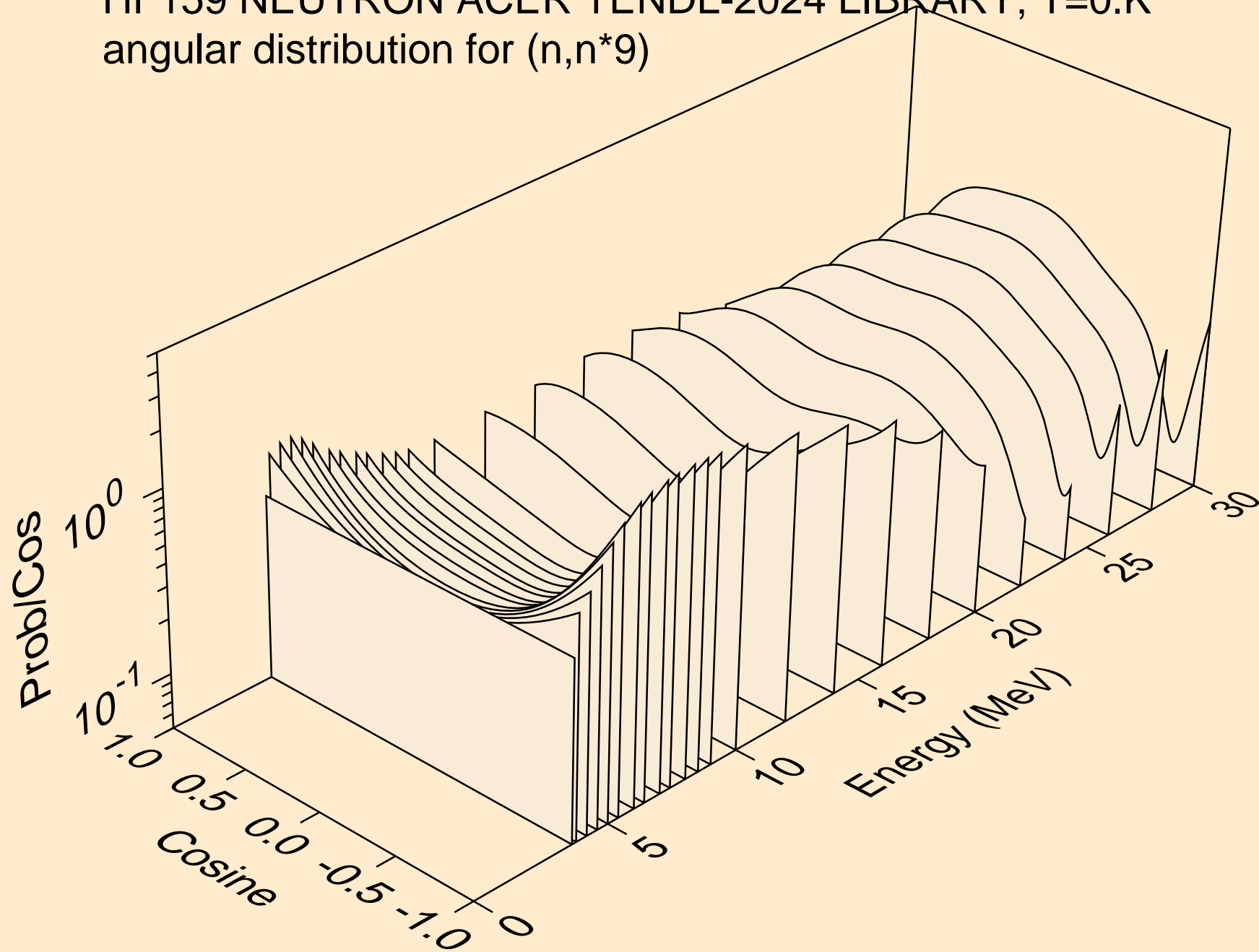




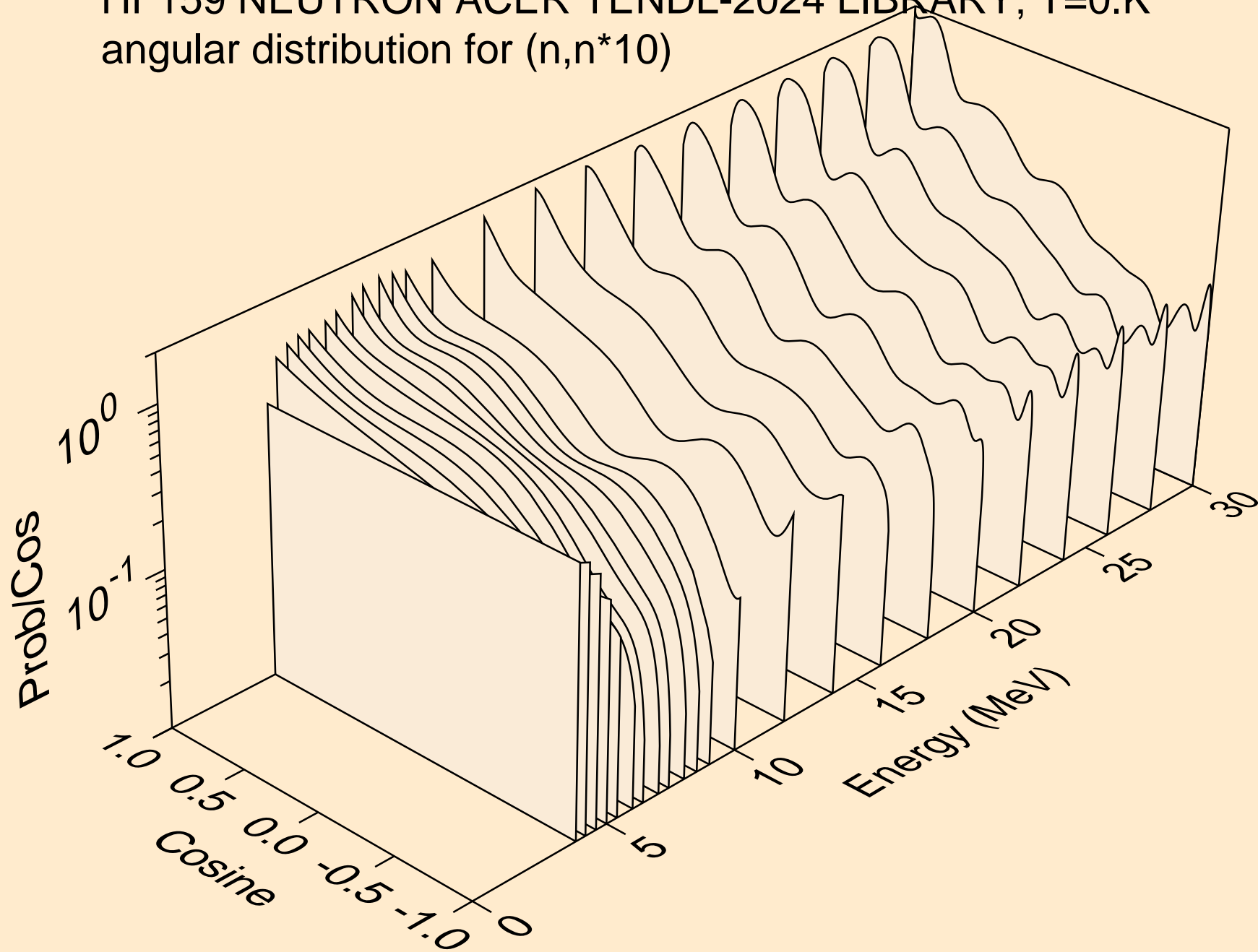
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angular distribution for (n,n\*8)



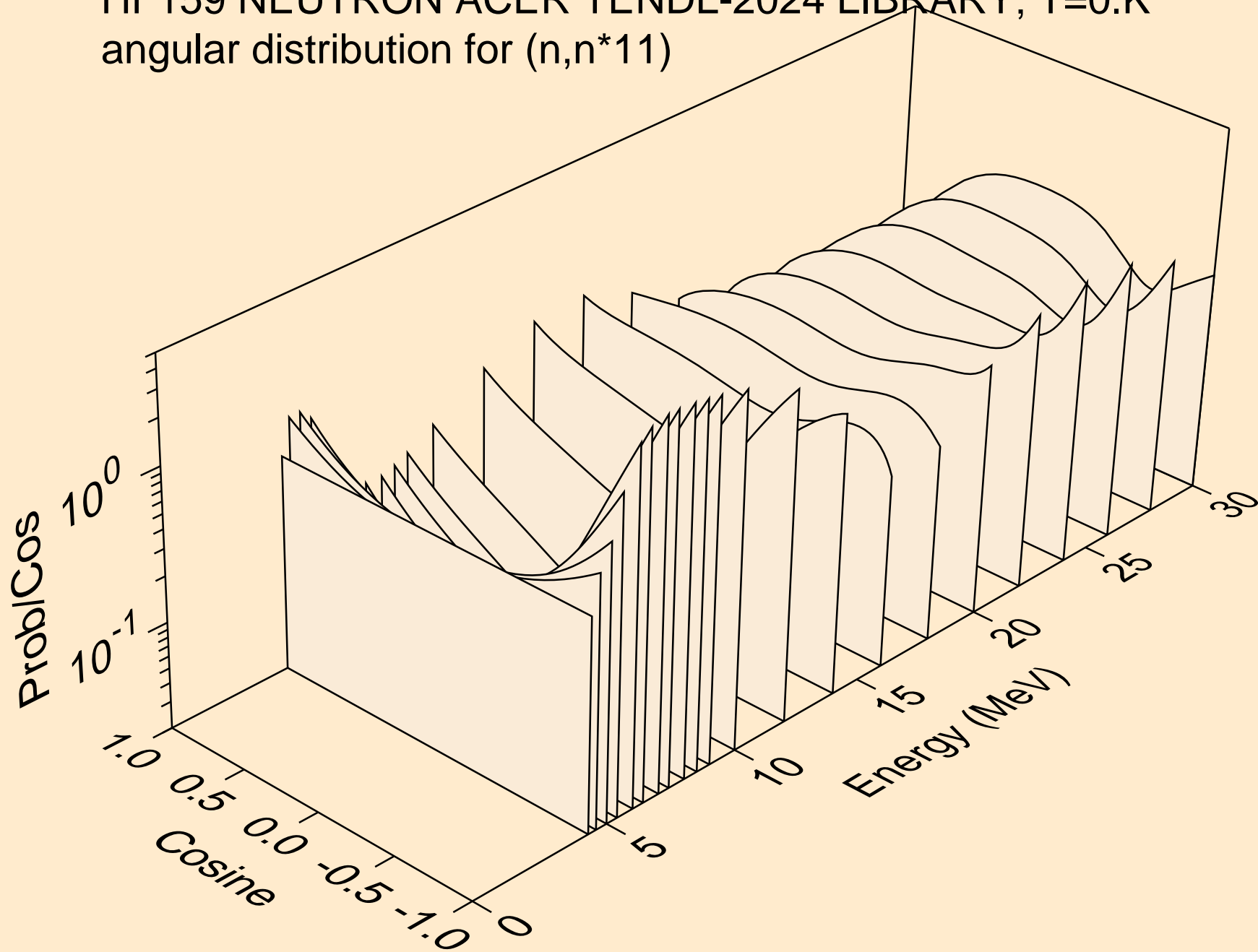
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angular distribution for (n,n\*9)



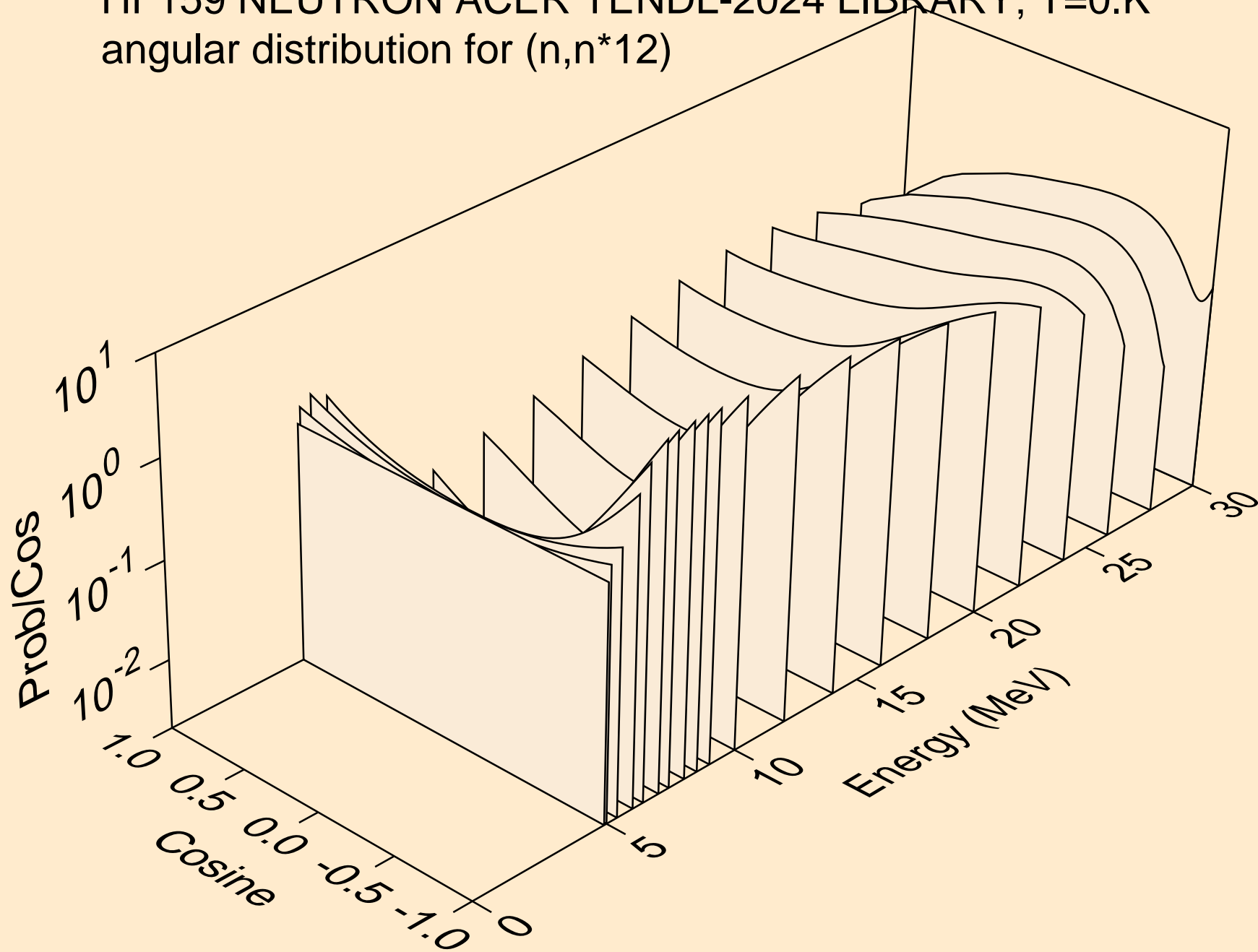
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angular distribution for (n,n\*10)



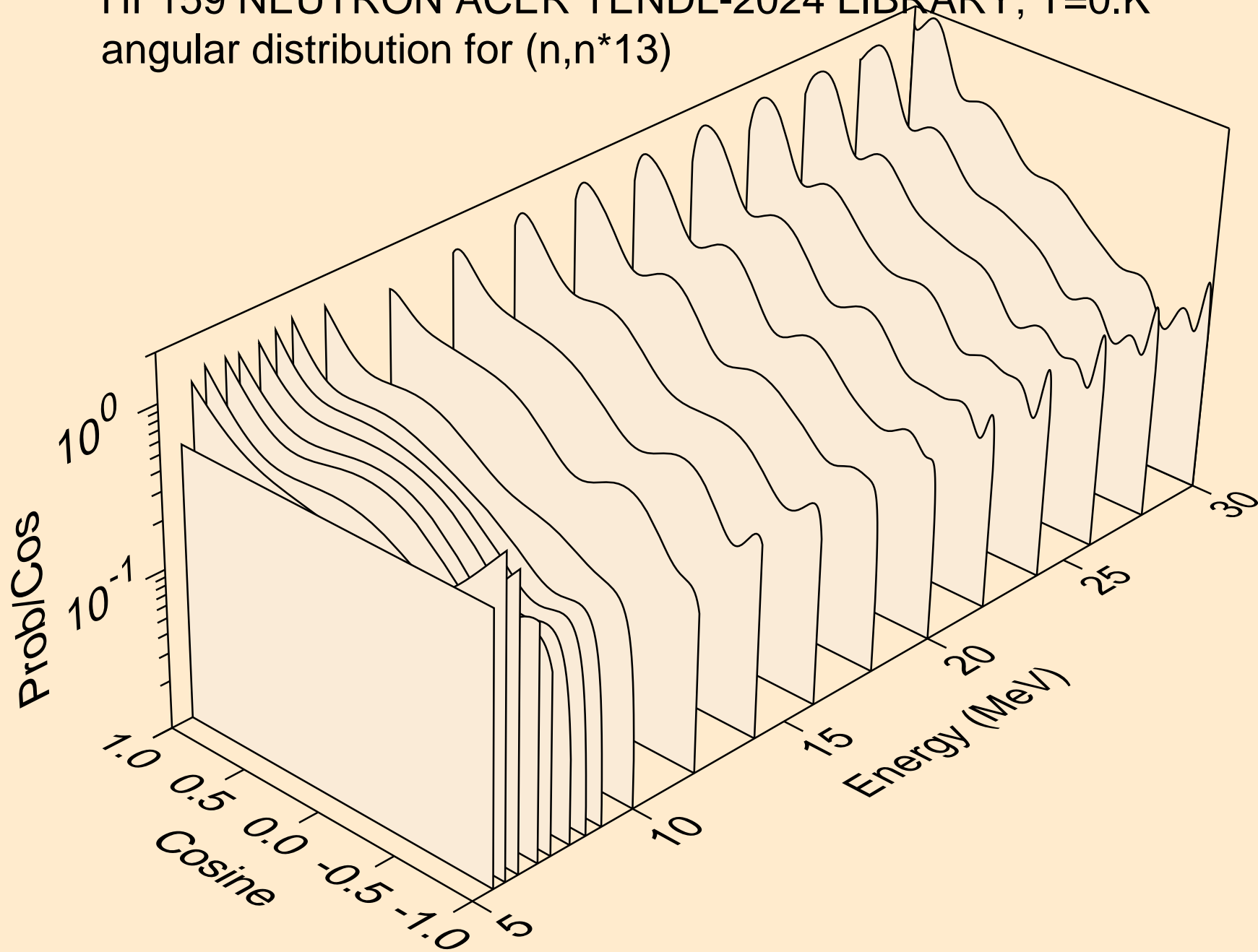
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angular distribution for (n,n\*11)



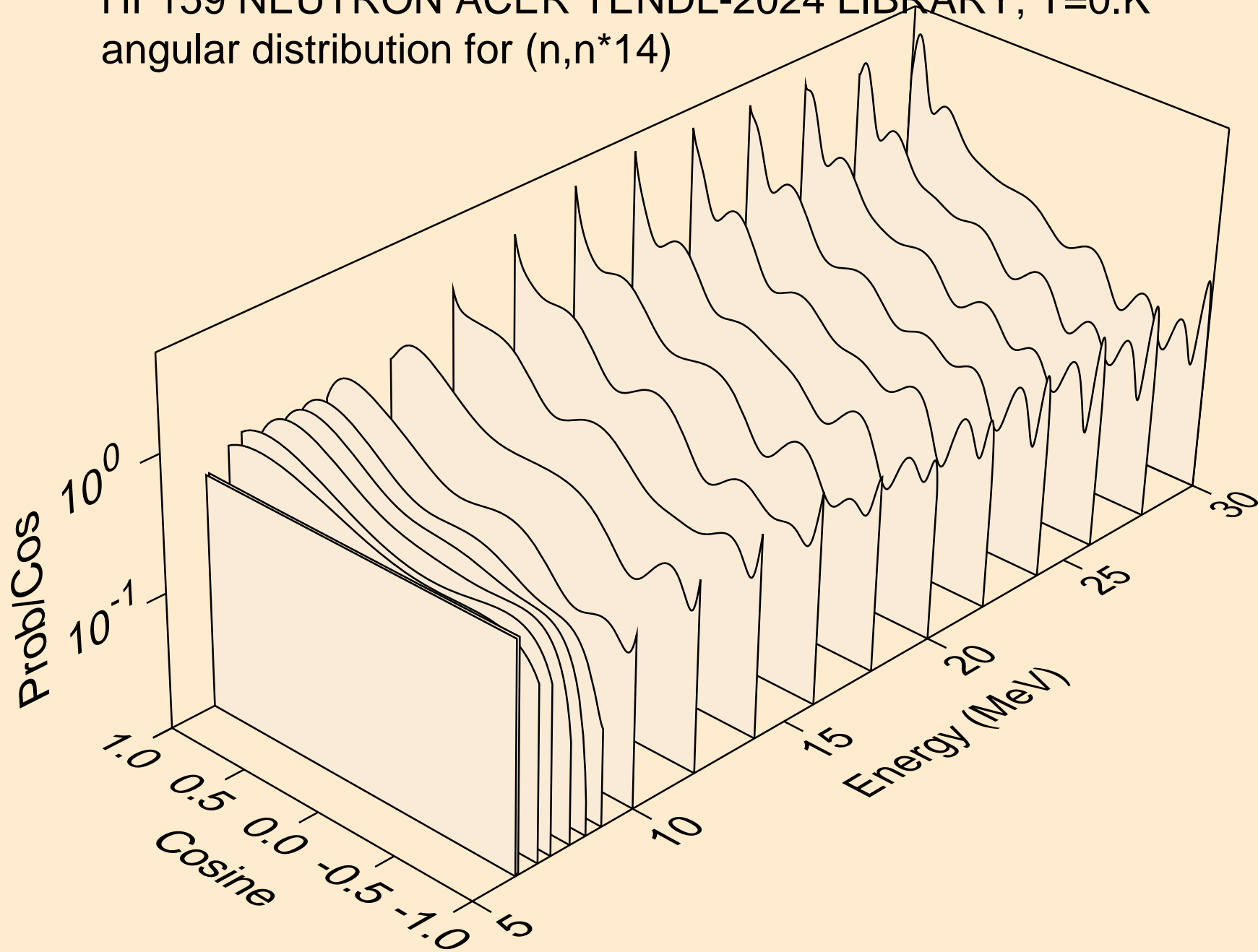
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angular distribution for (n,n\*12)



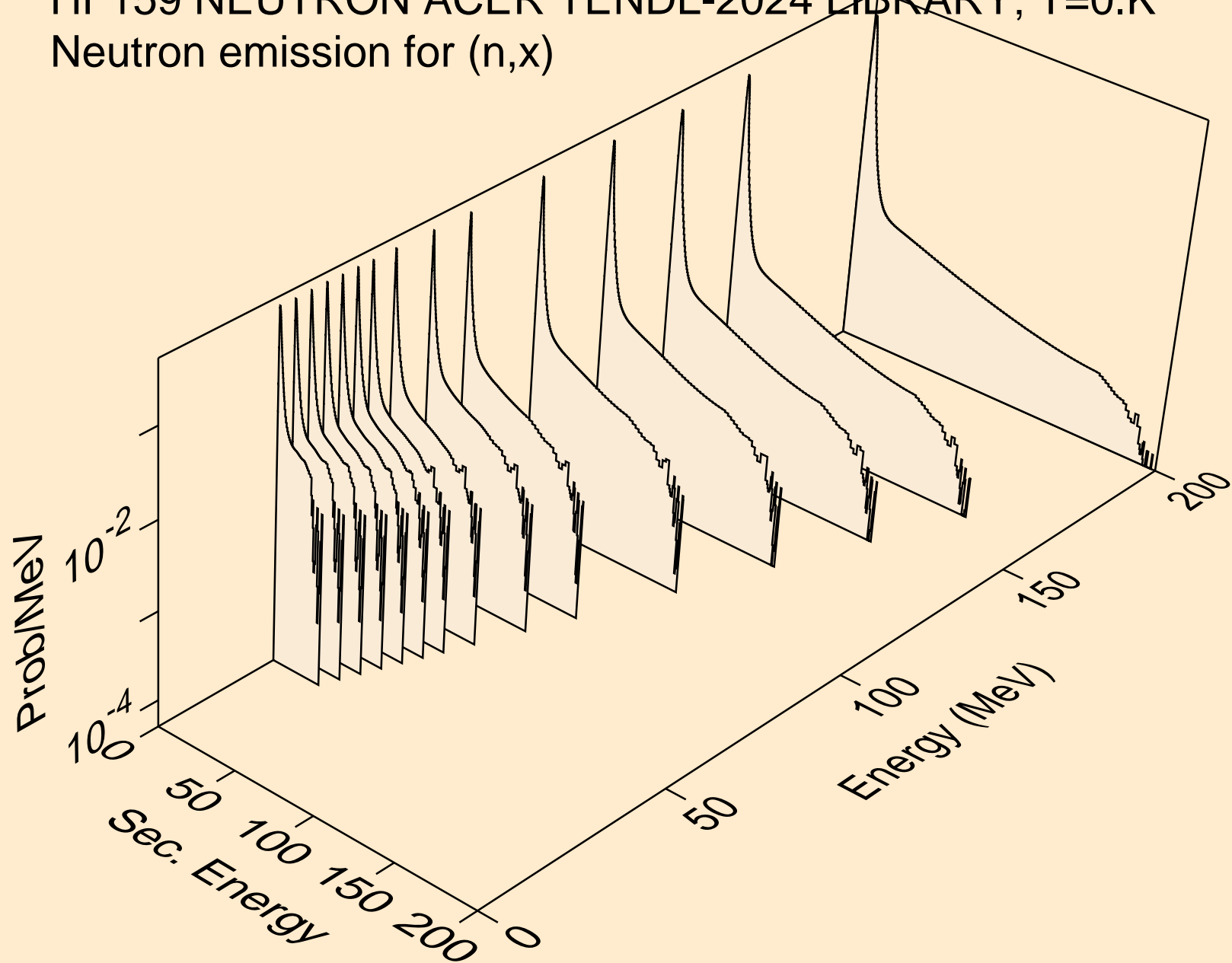
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

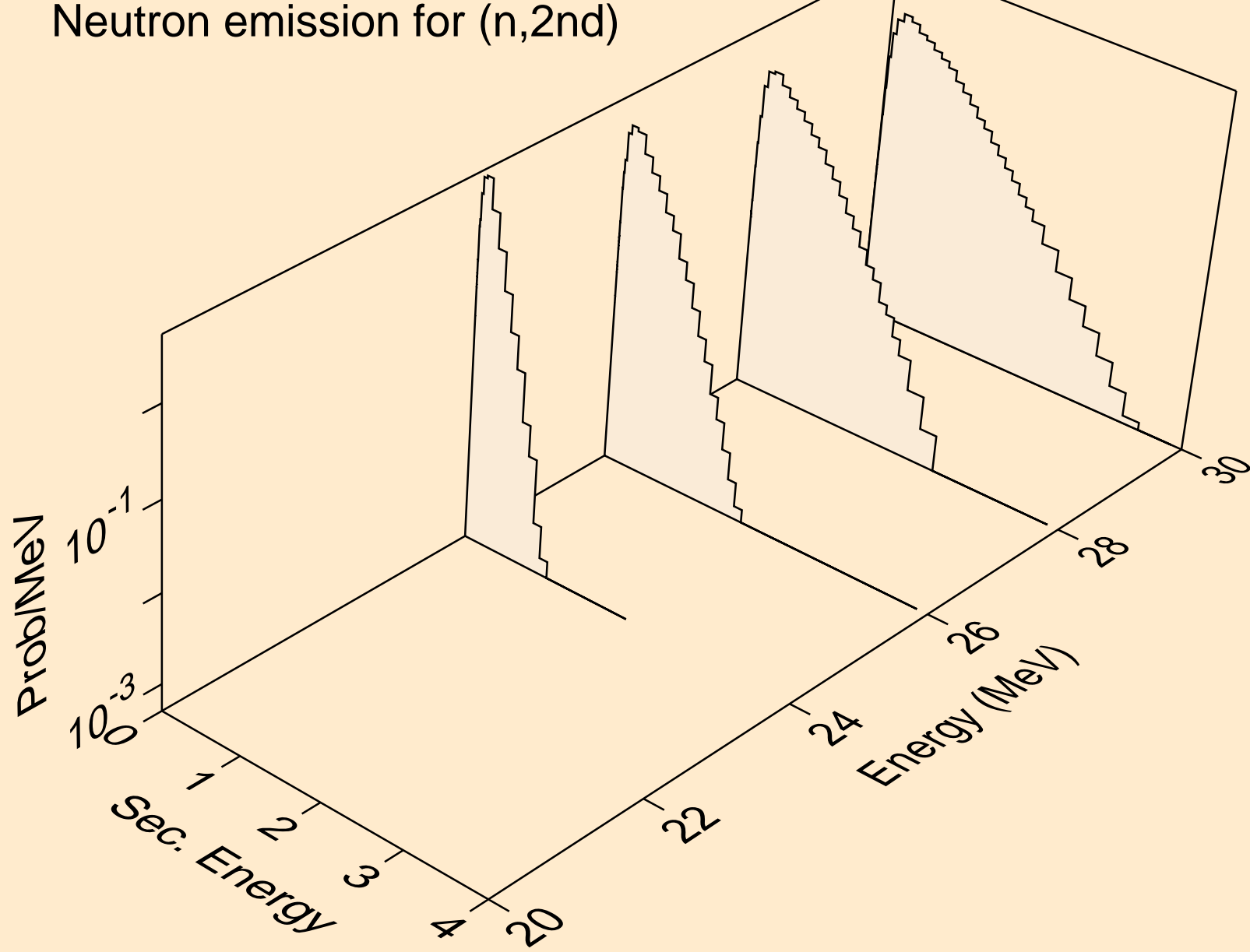


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

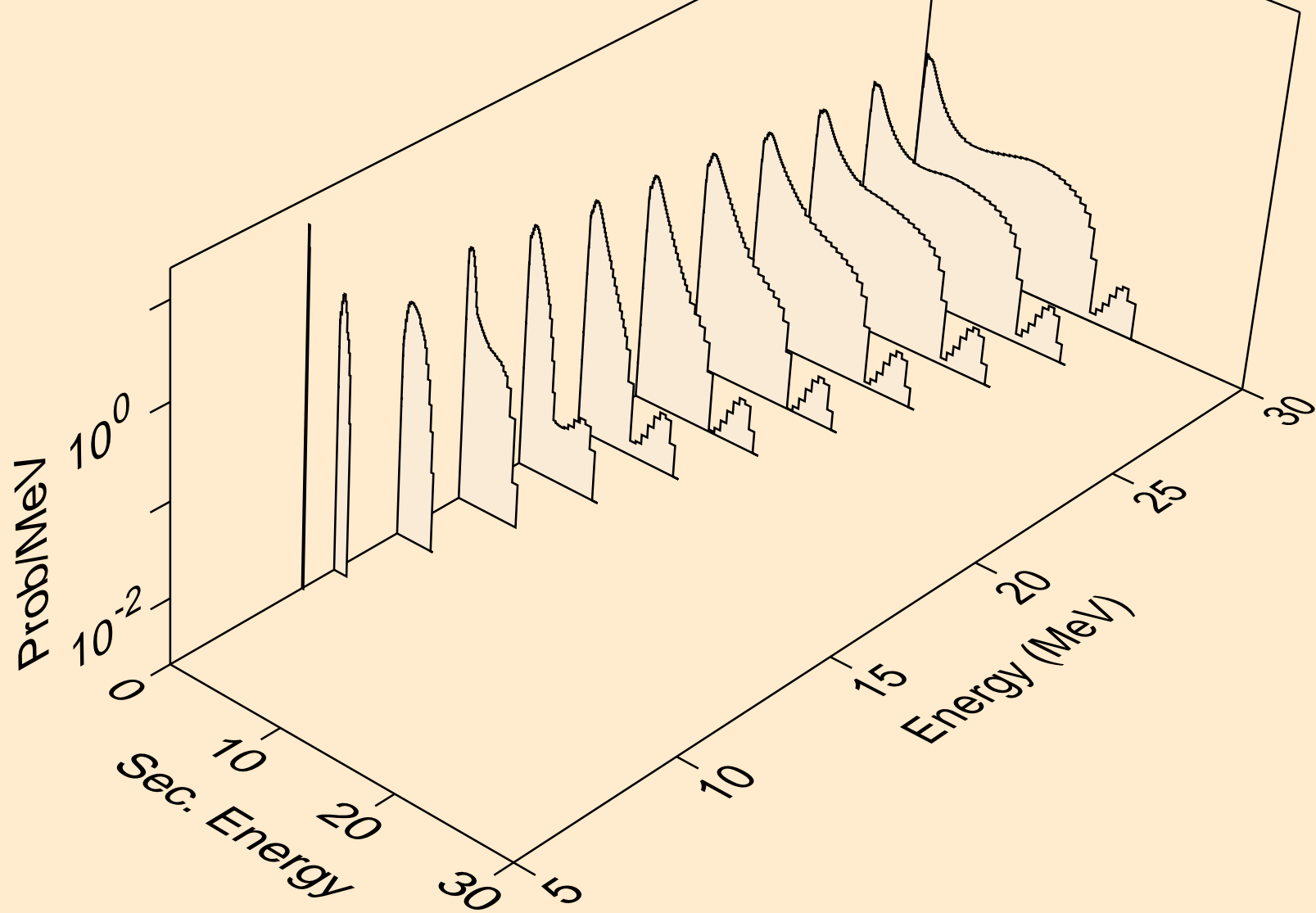




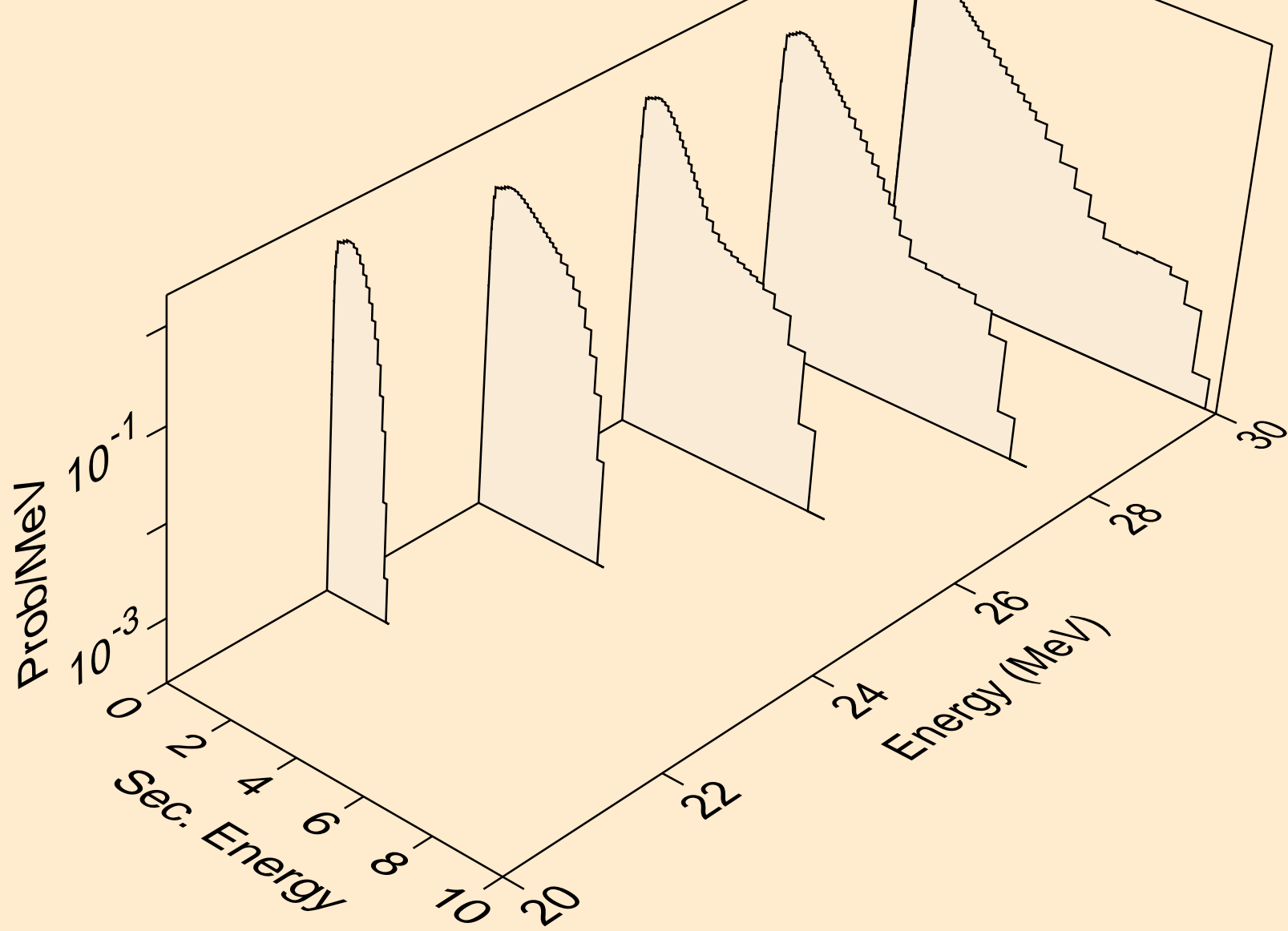
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Neutron emission for (n,2nd)



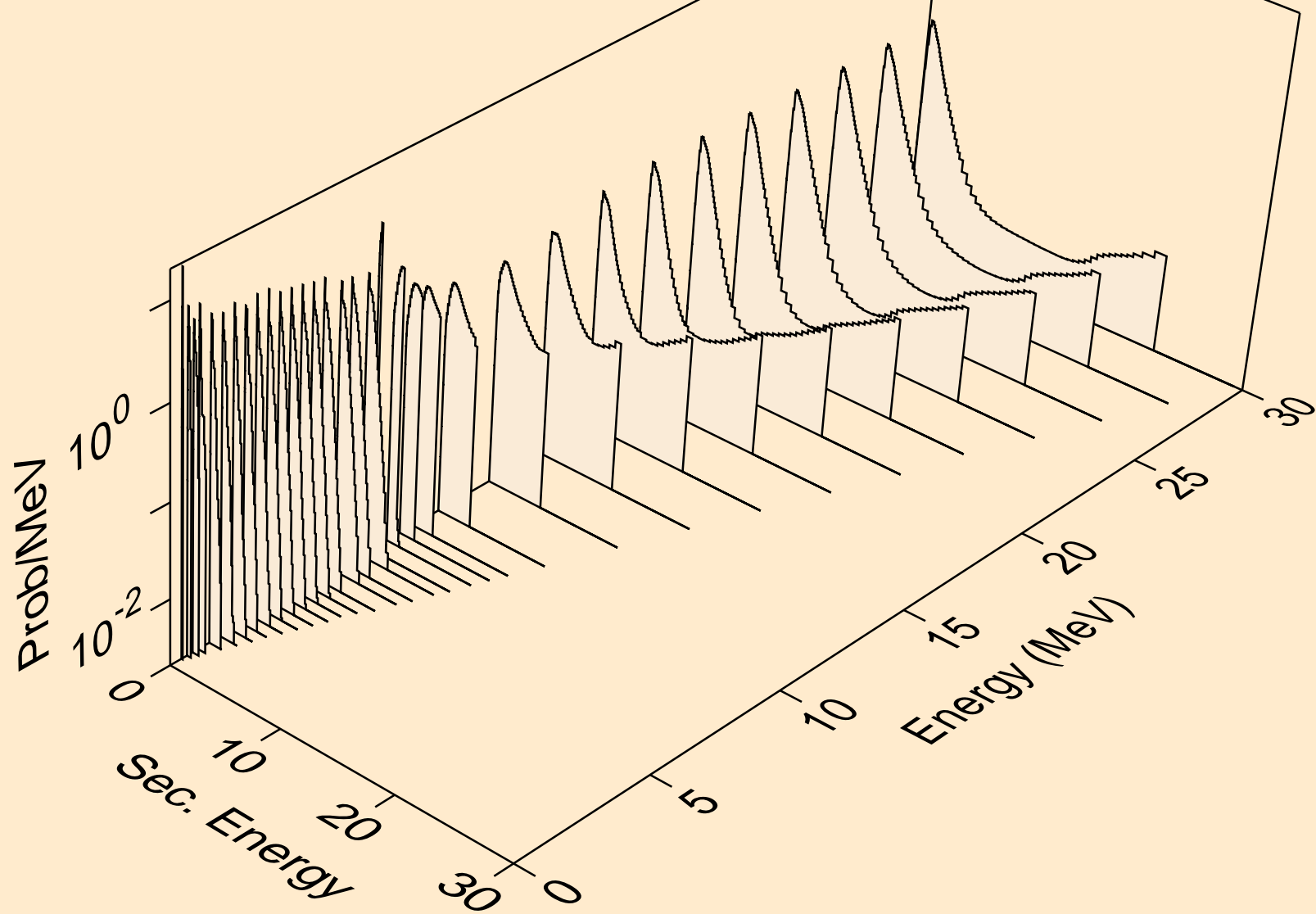
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Neutron emission for (n,2n)



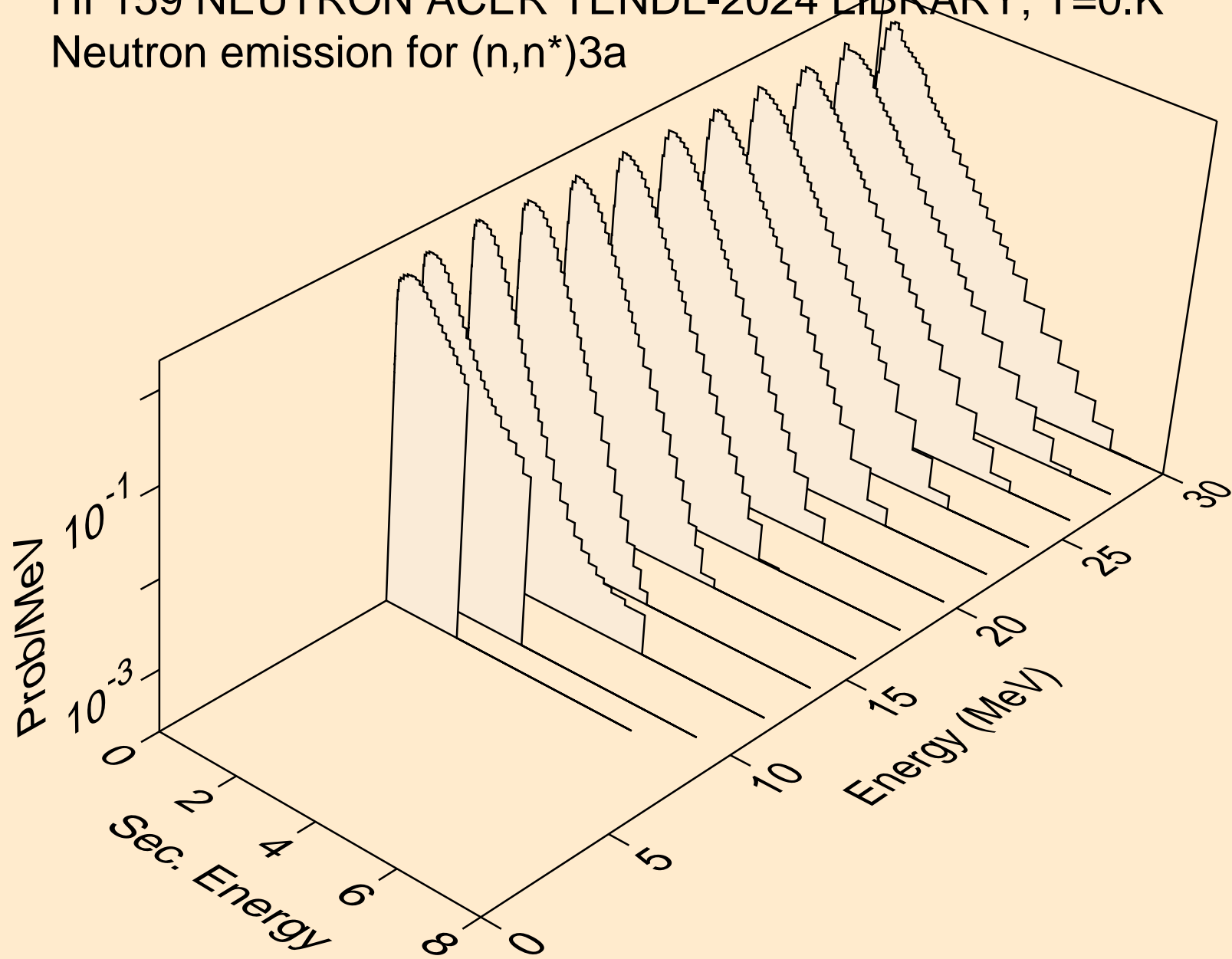
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Neutron emission for (n,3n)



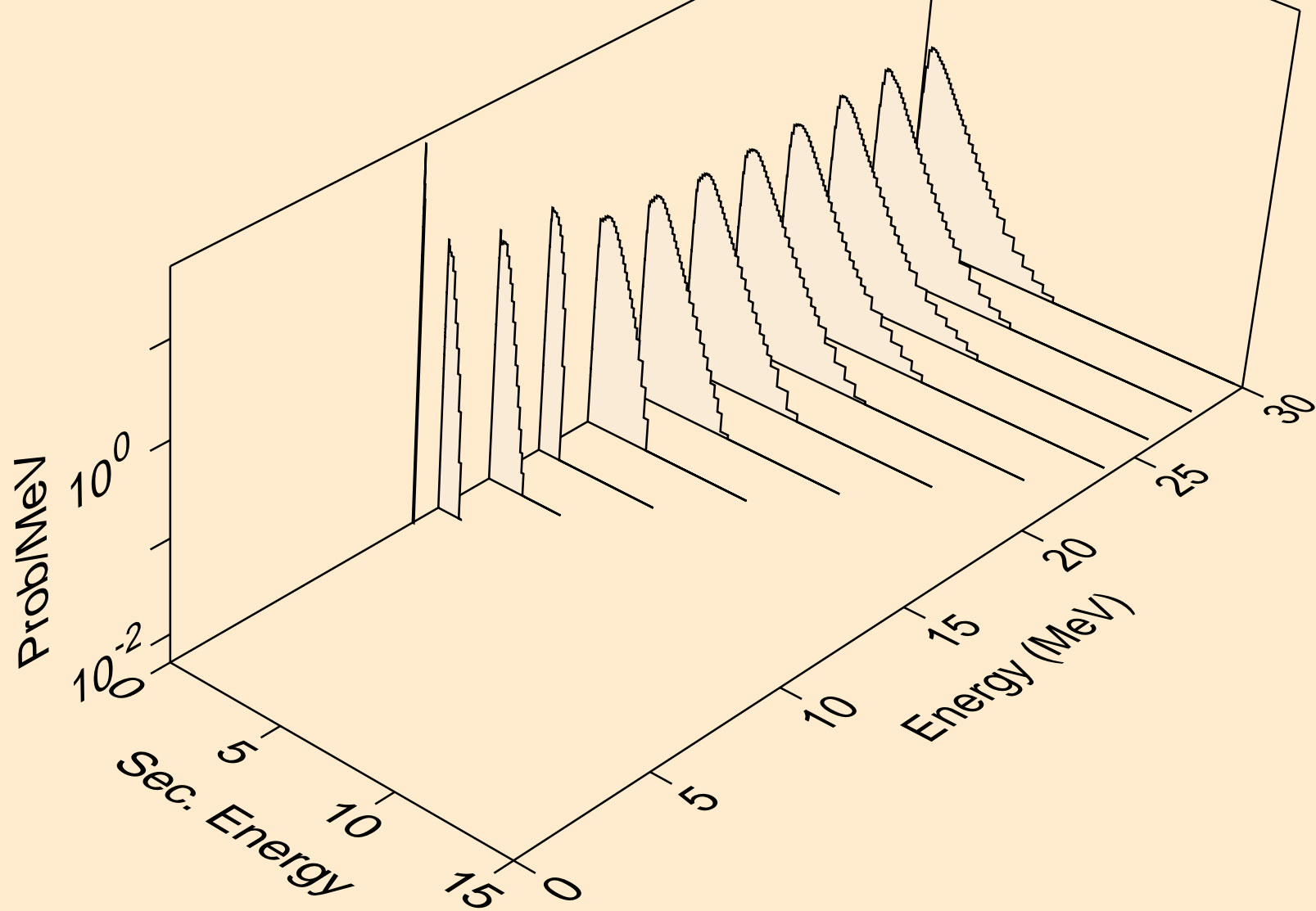
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Neutron emission for (n,n\*)a



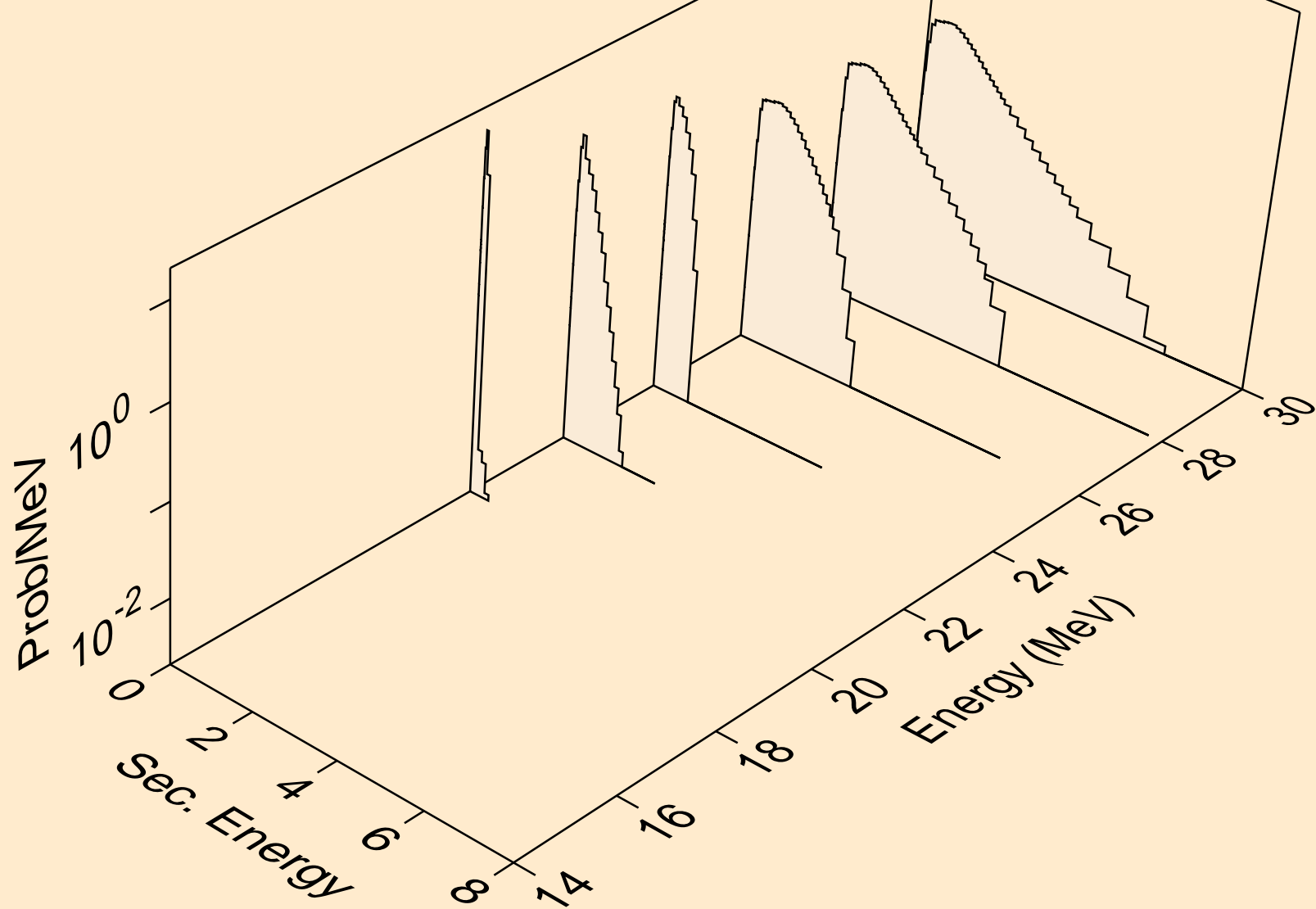
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Neutron emission for (n,n\*)3a



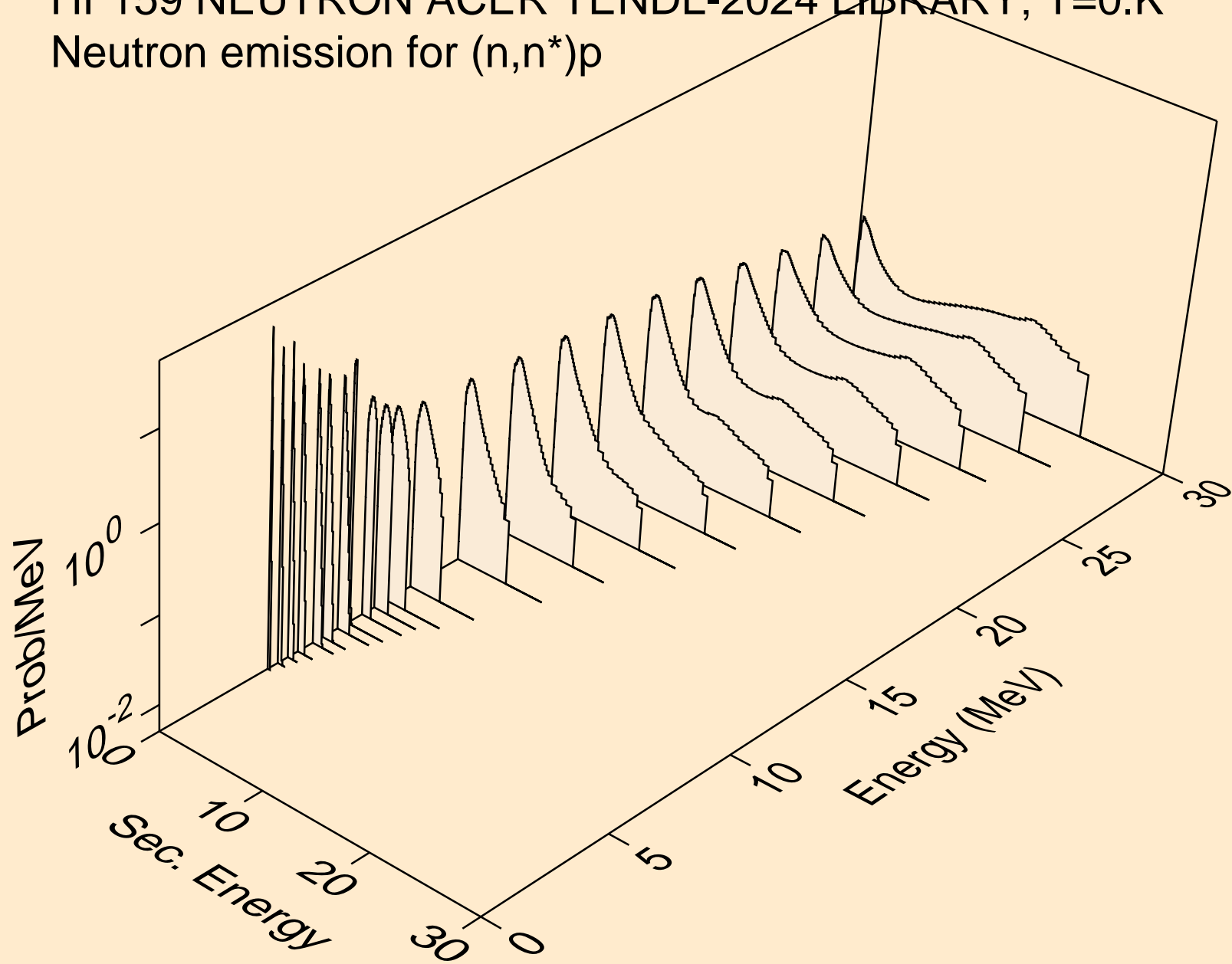
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Neutron emission for (n,2n)a



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

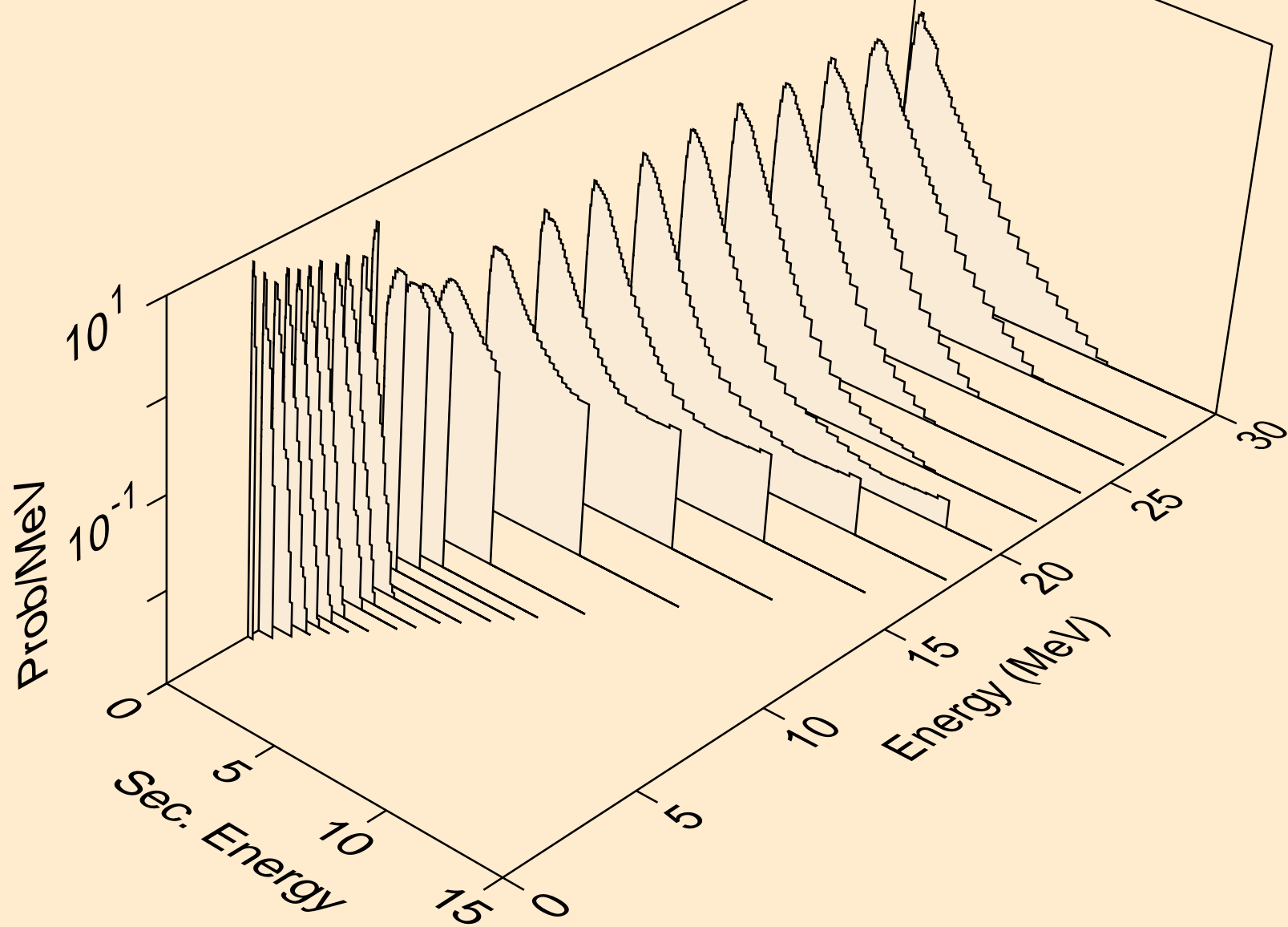


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Neutron emission for (n,n\*)p

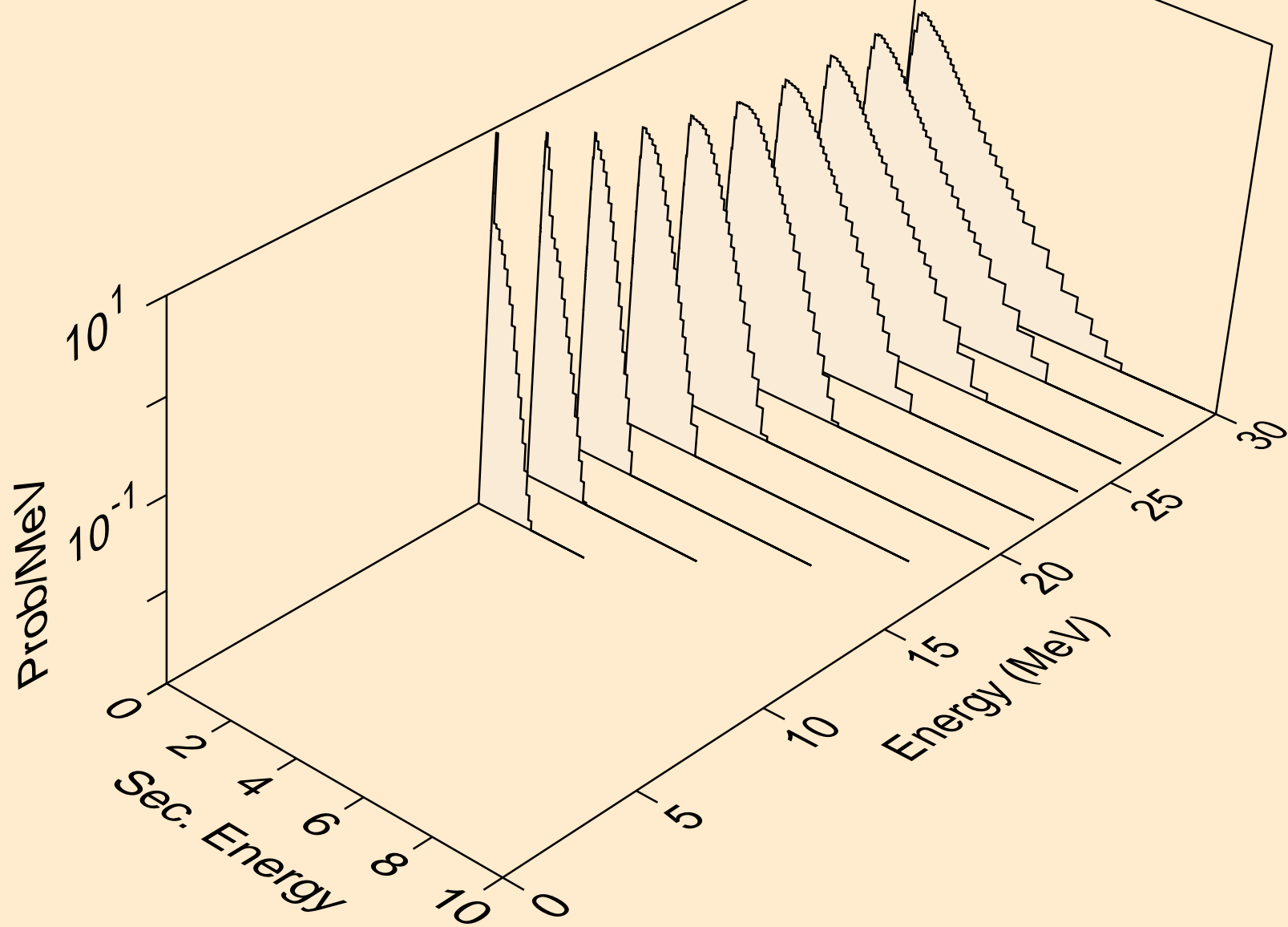




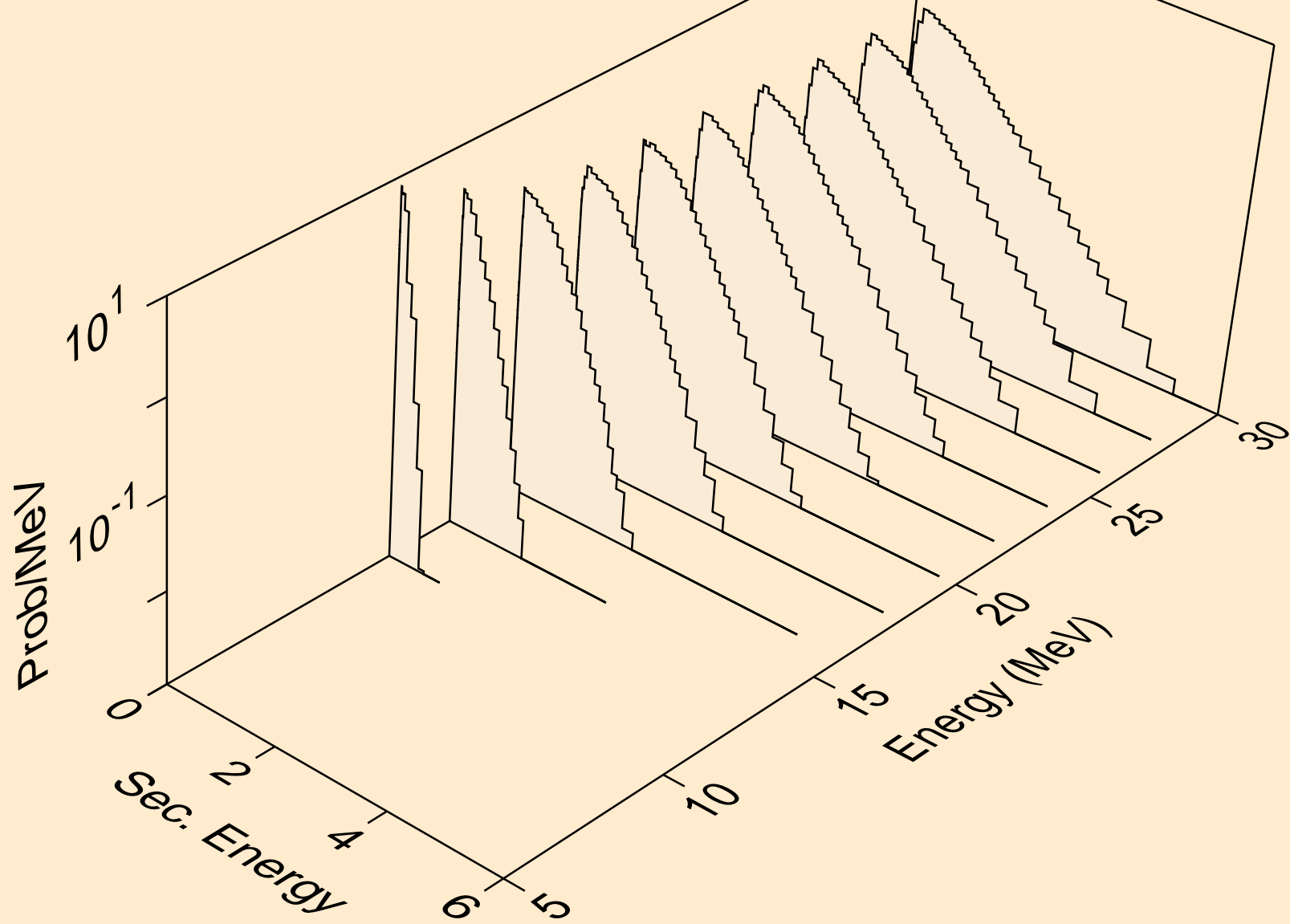
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Neutron emission for (n,n\*)2a



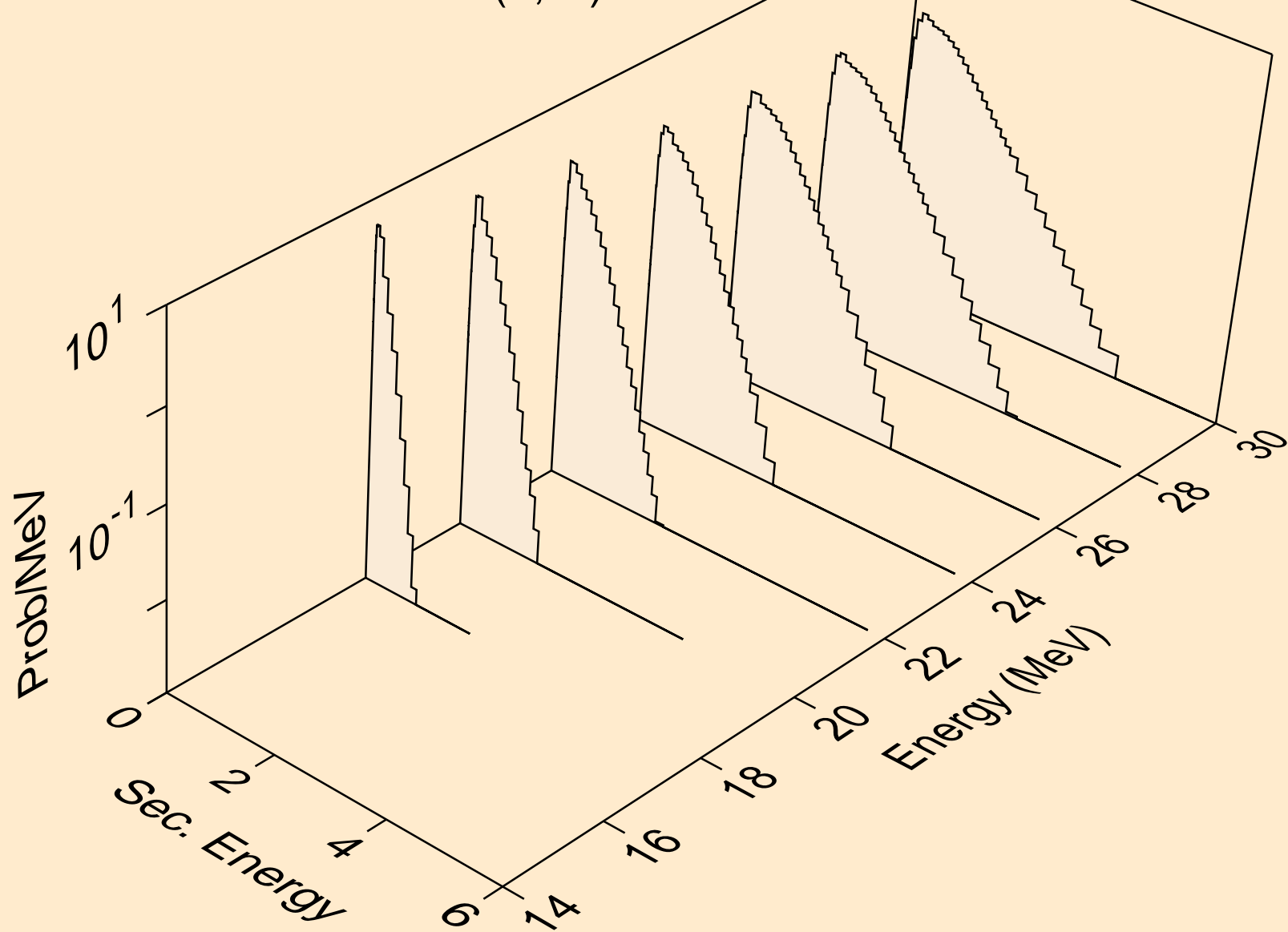
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Neutron emission for (n,2n)2a



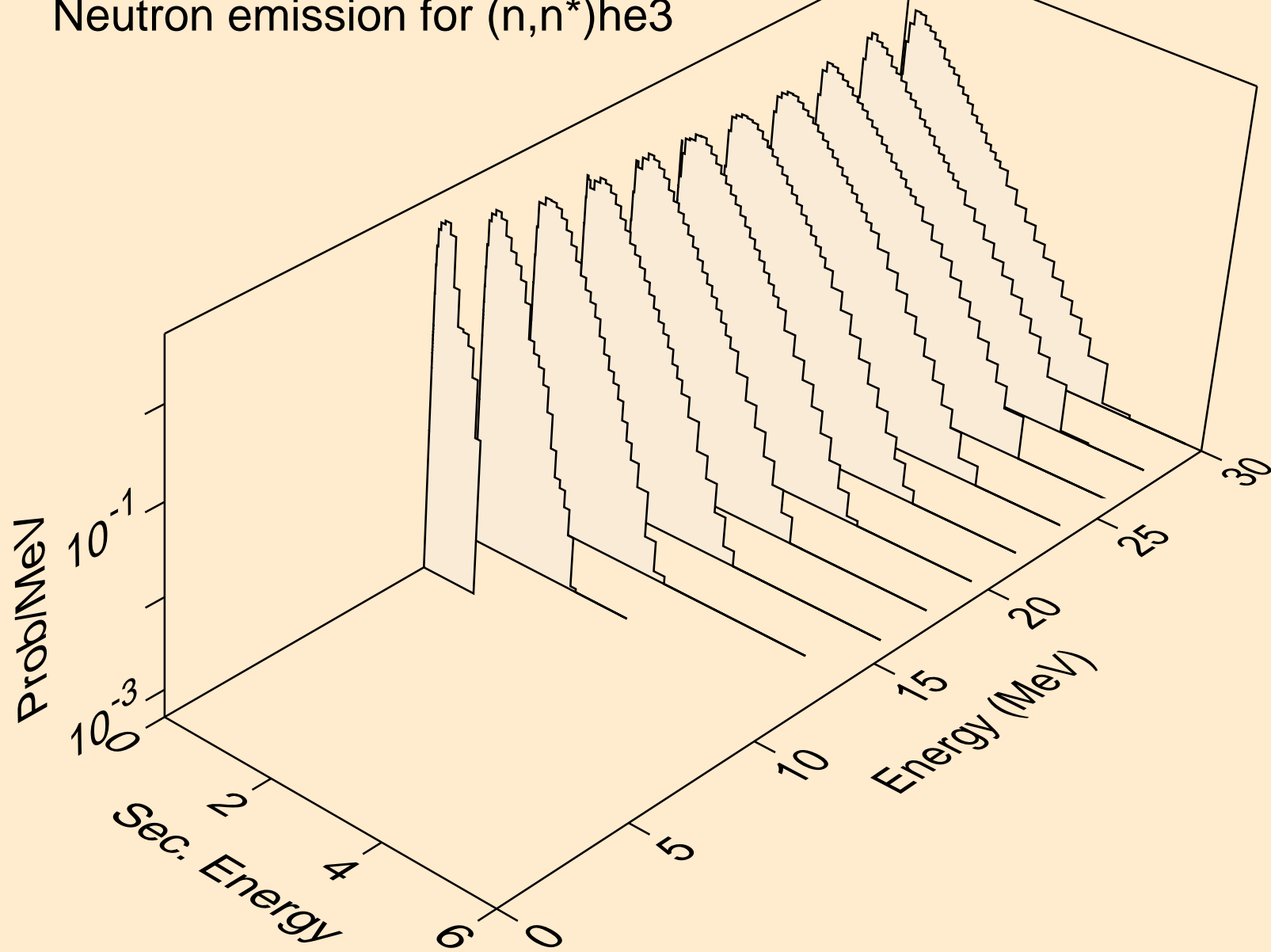
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Neutron emission for (n,n\*)d



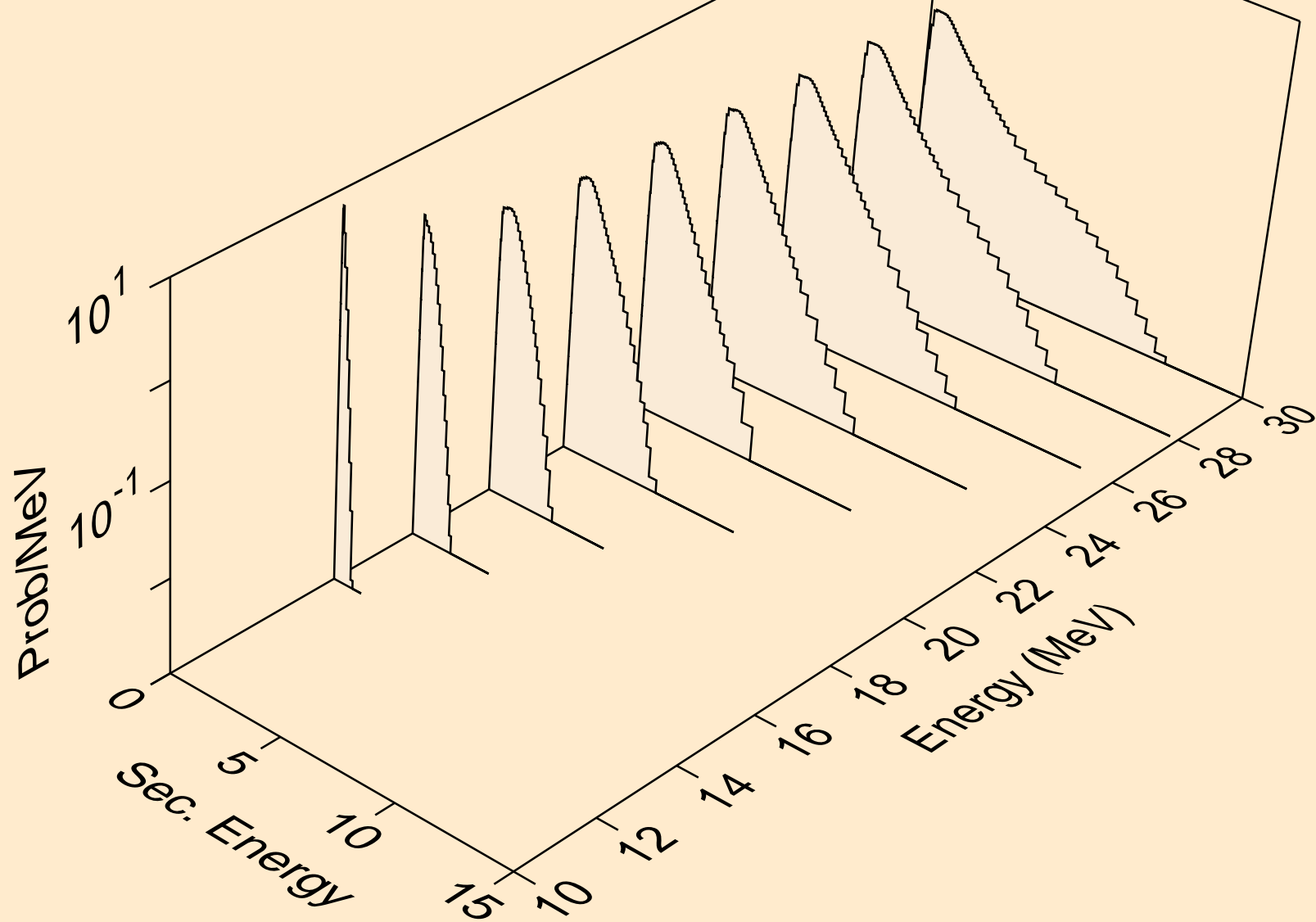
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Neutron emission for (n,n\*)t



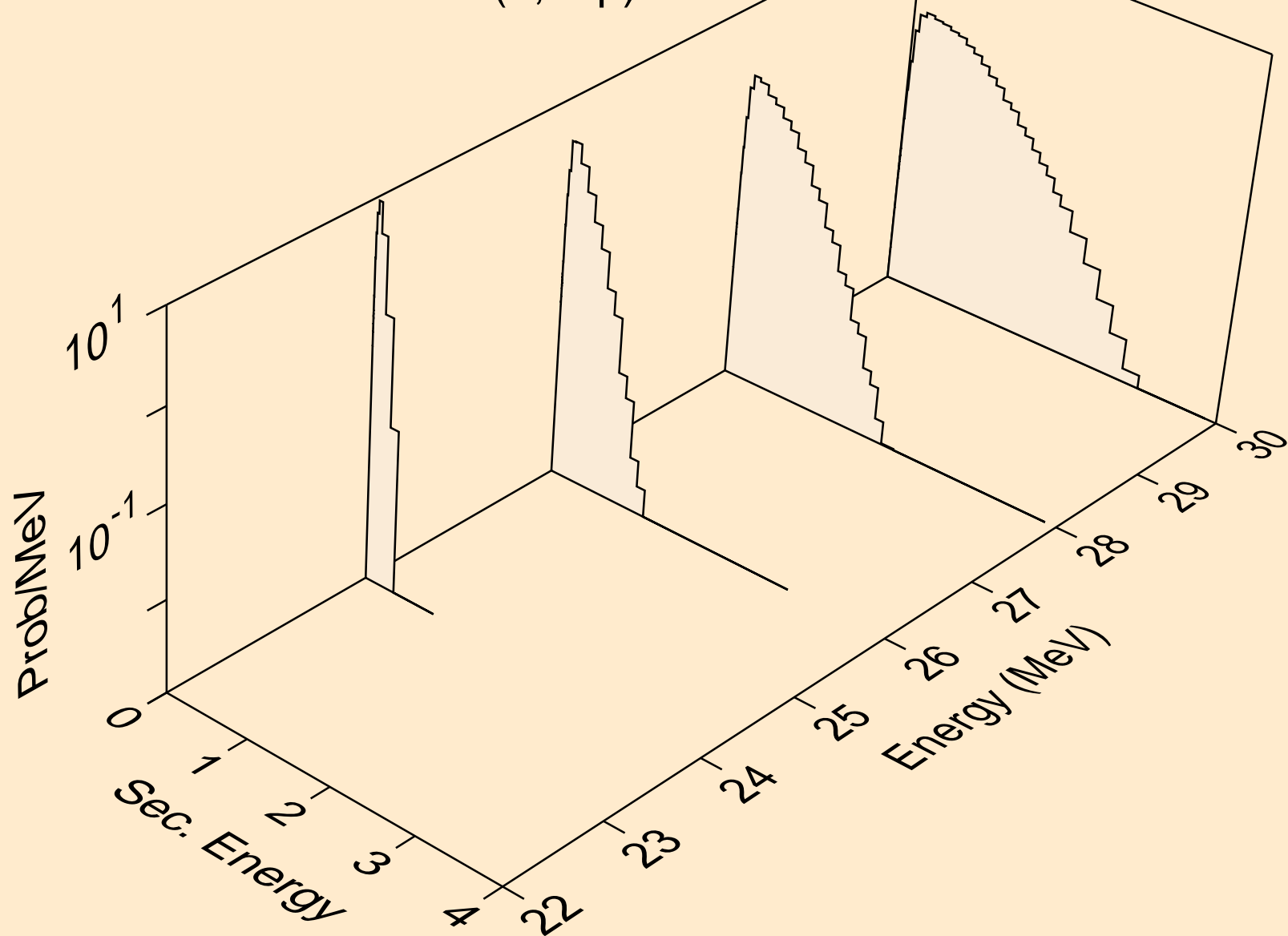
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Neutron emission for (n,n\*)he3



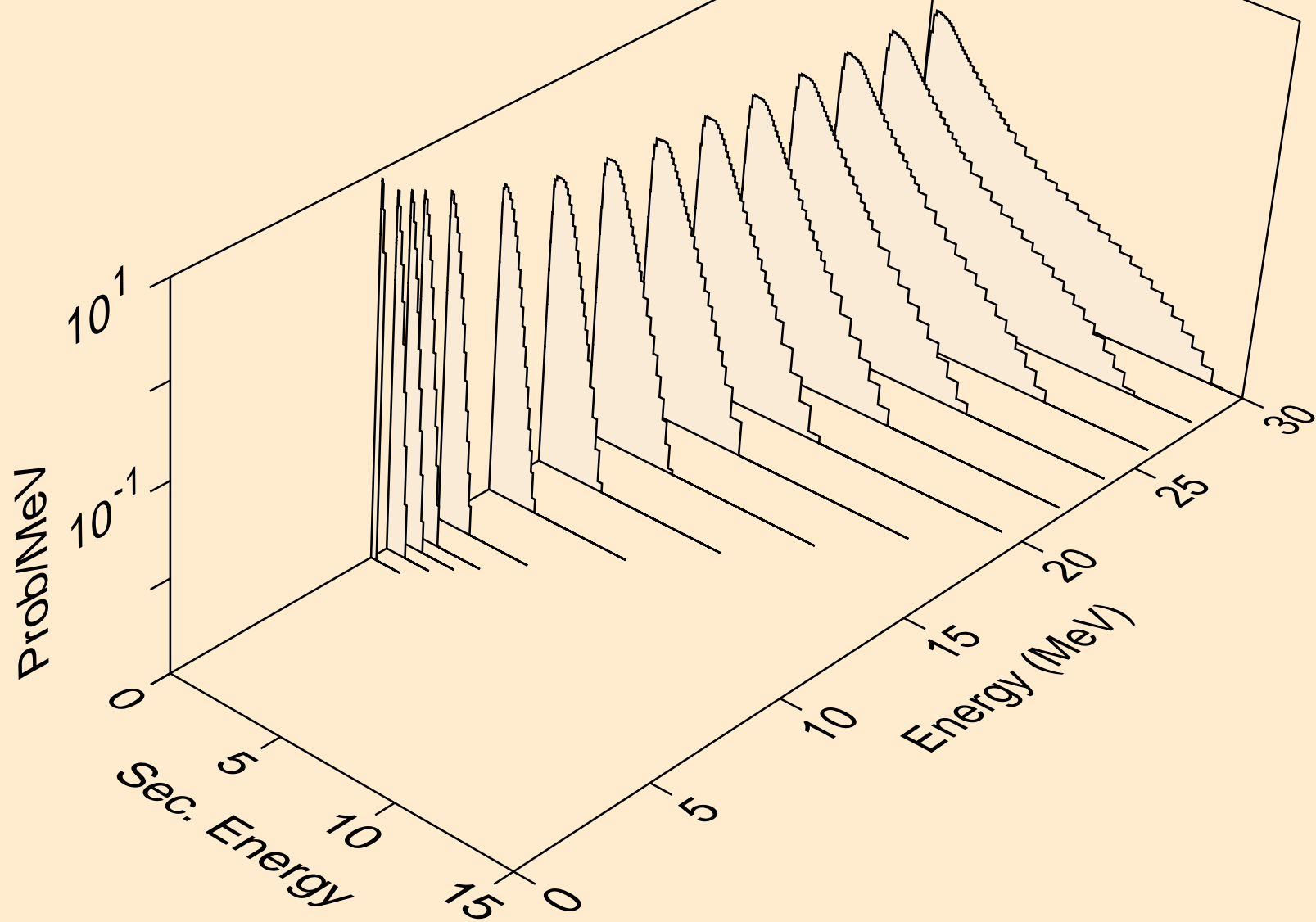
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)

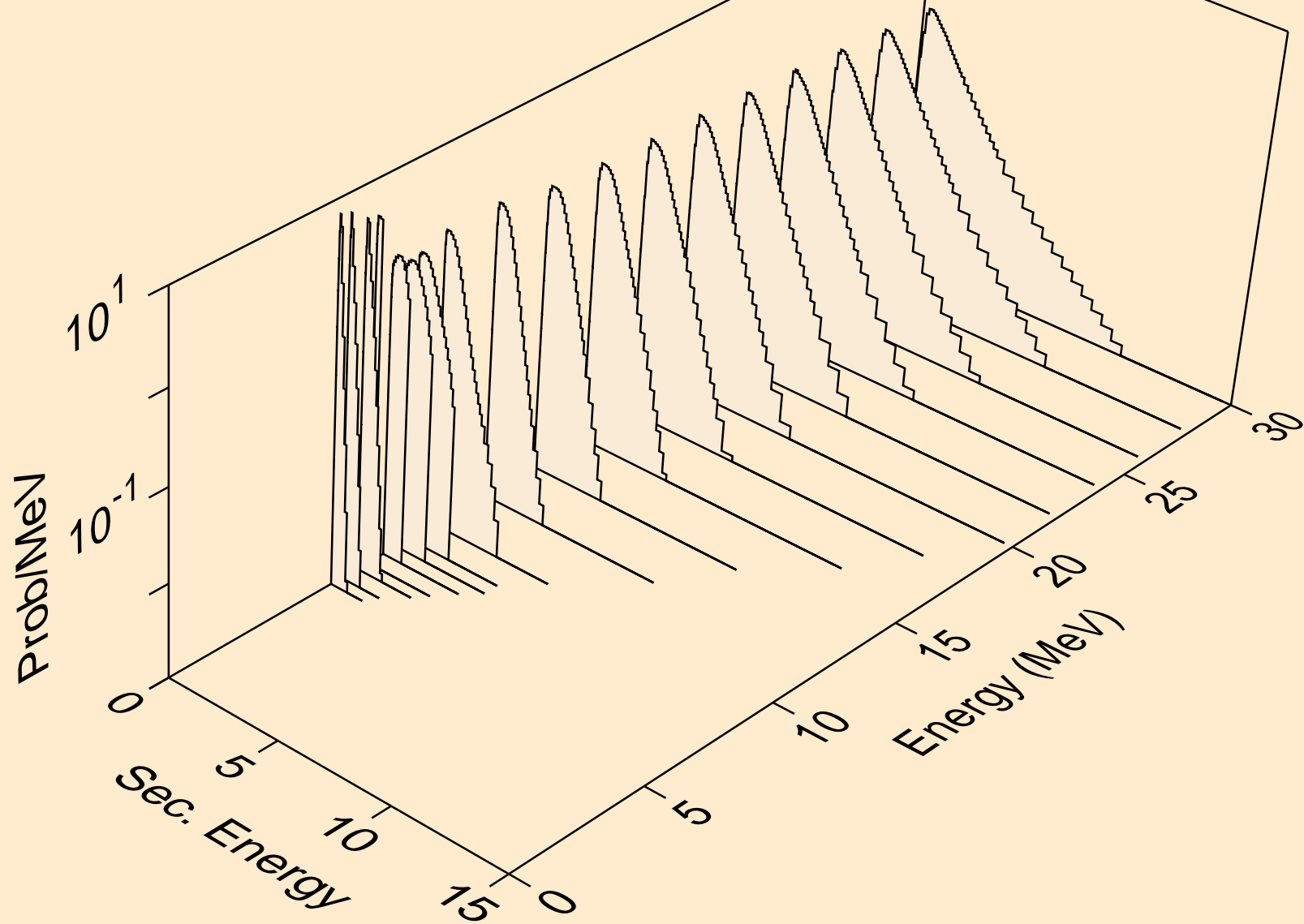


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Neutron emission for (n,n2p)

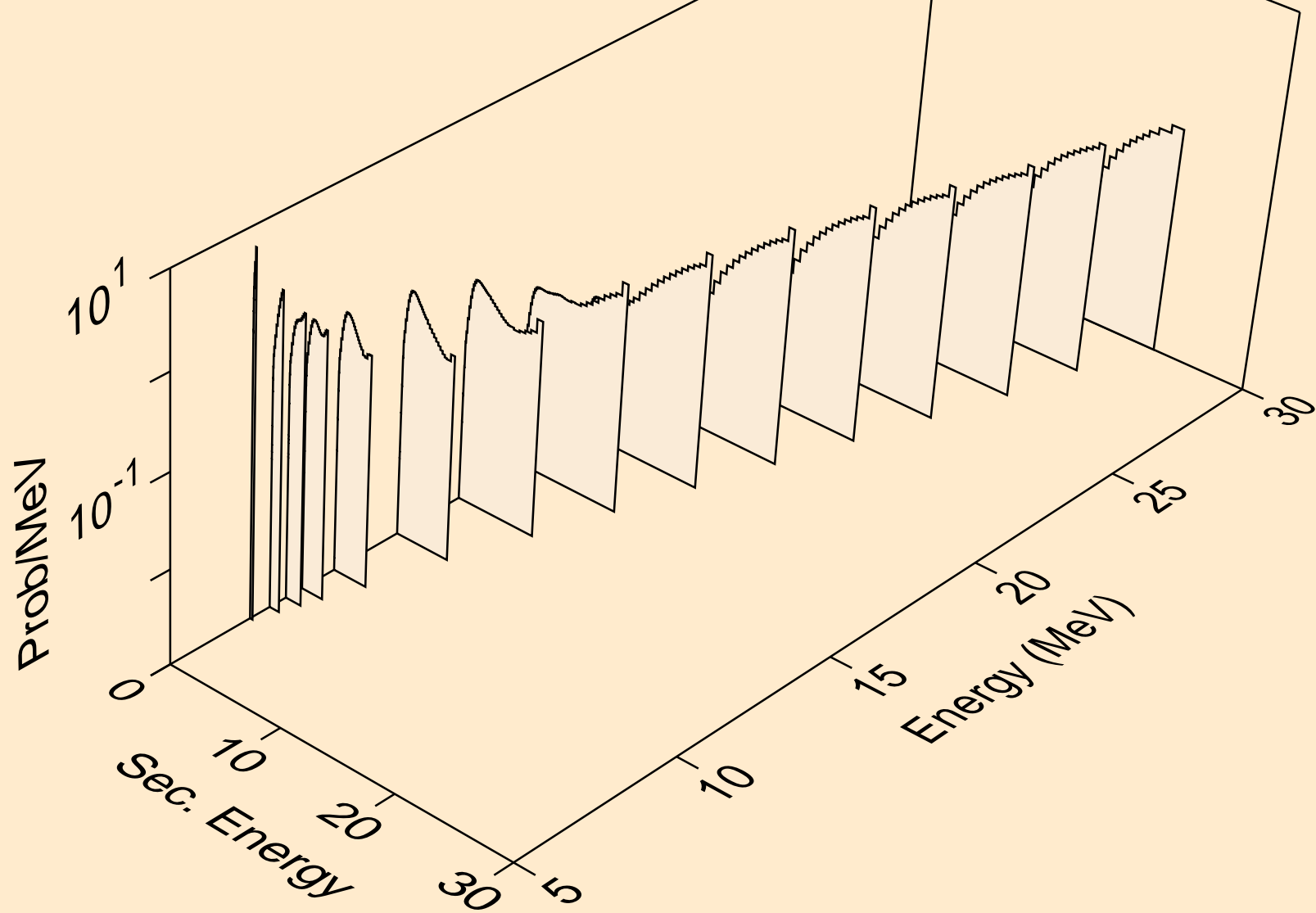




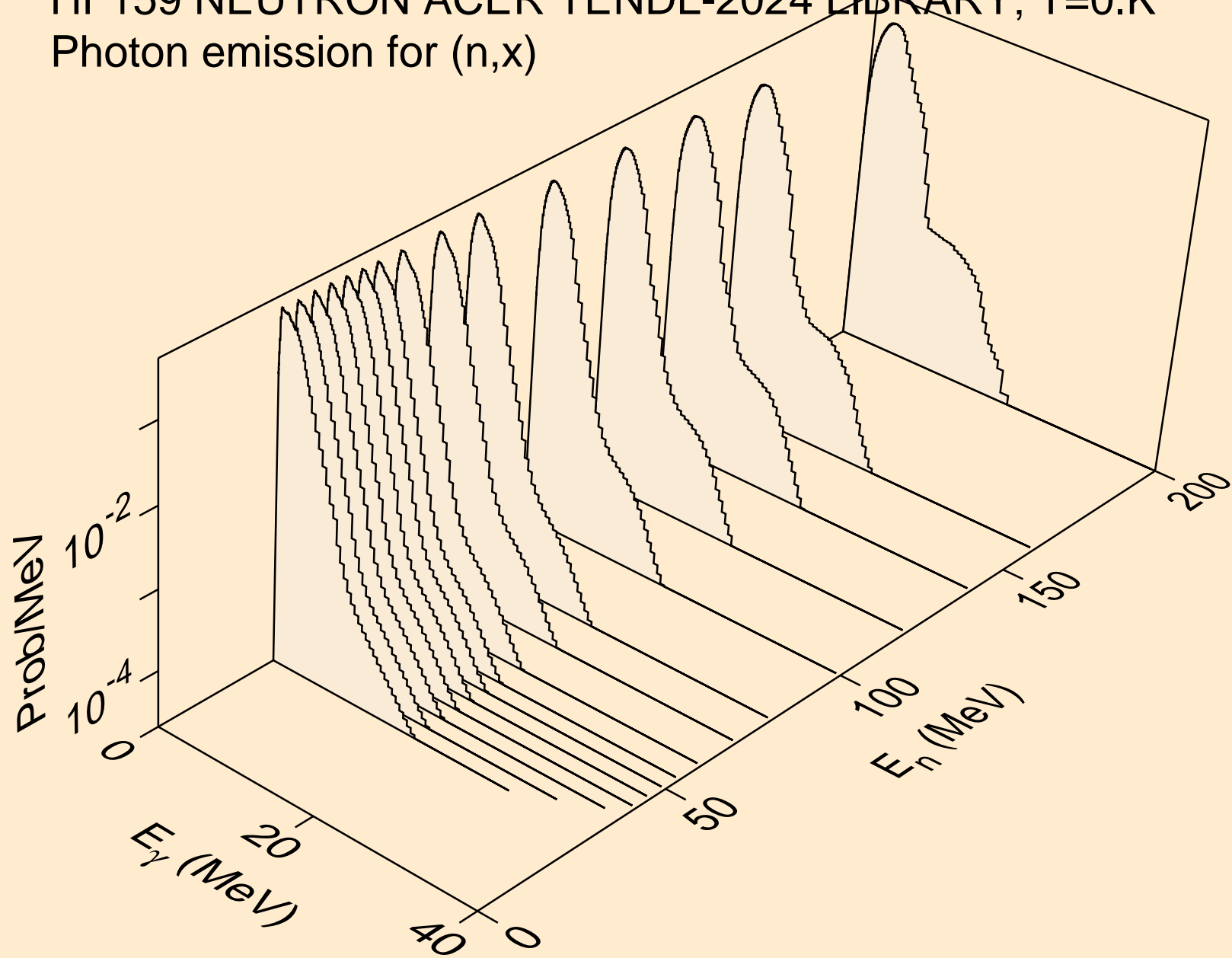
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Neutron emission for (n,npa)



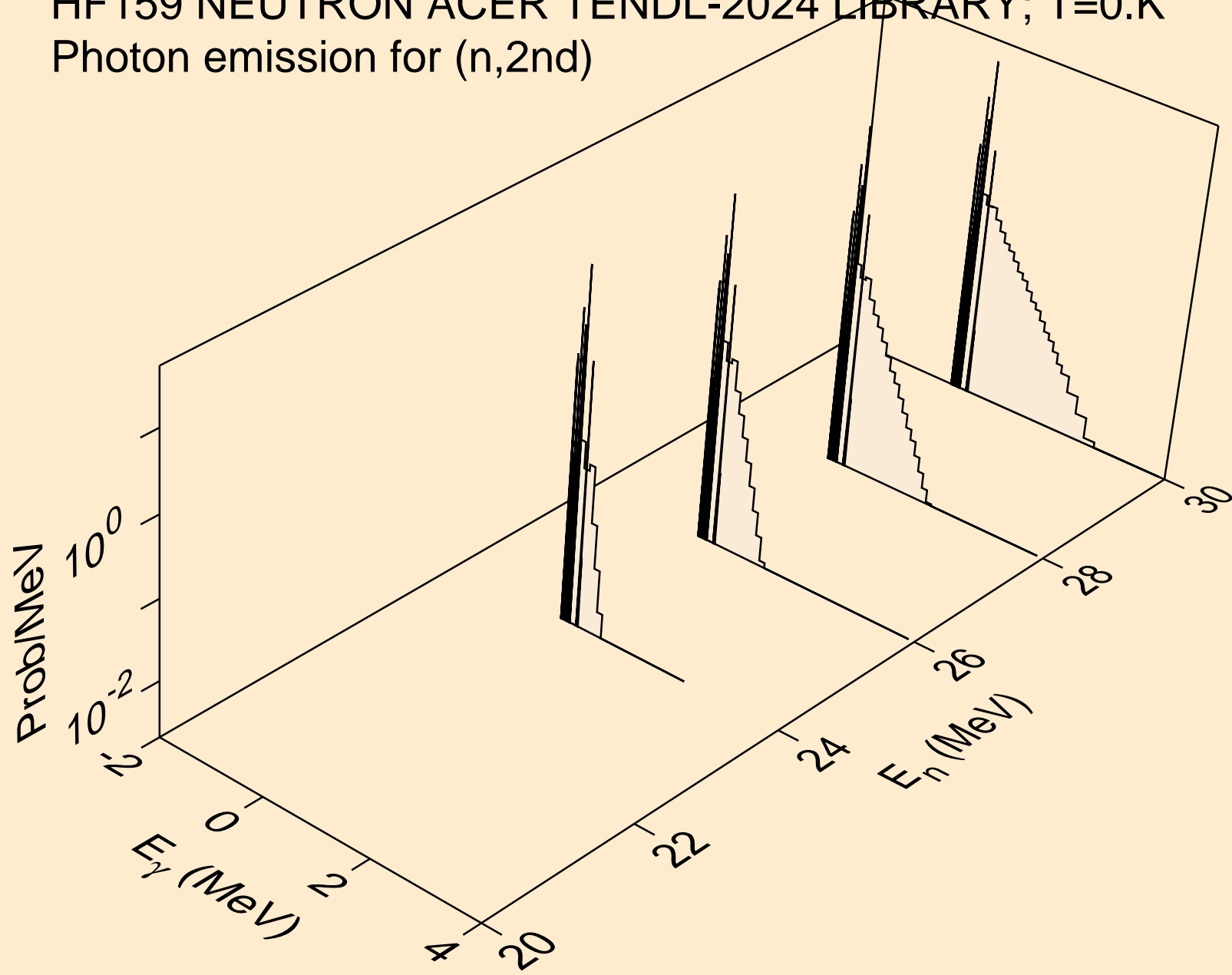
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Neutron emission for (n,n\*c)



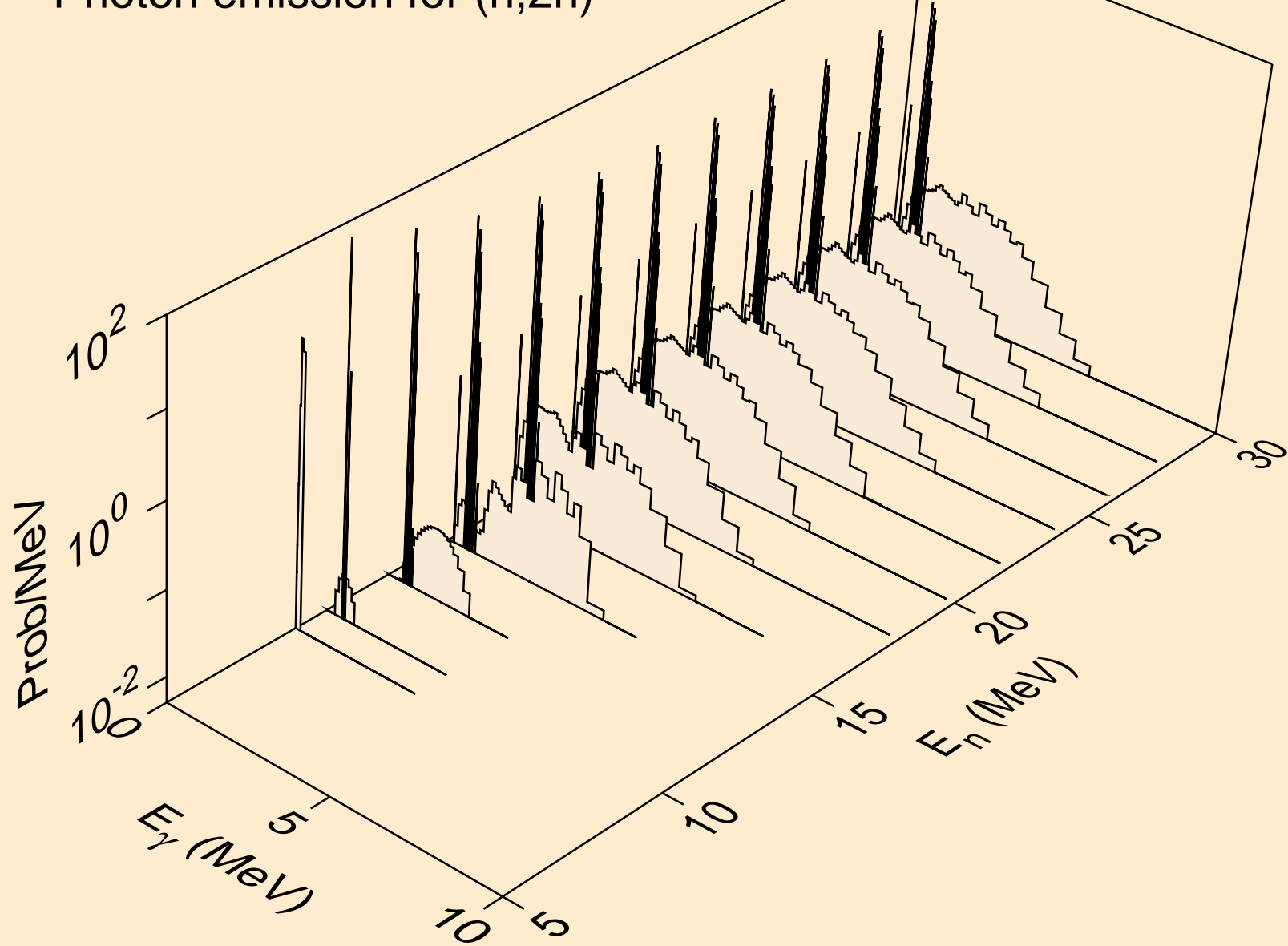
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Photon emission for (n,x)



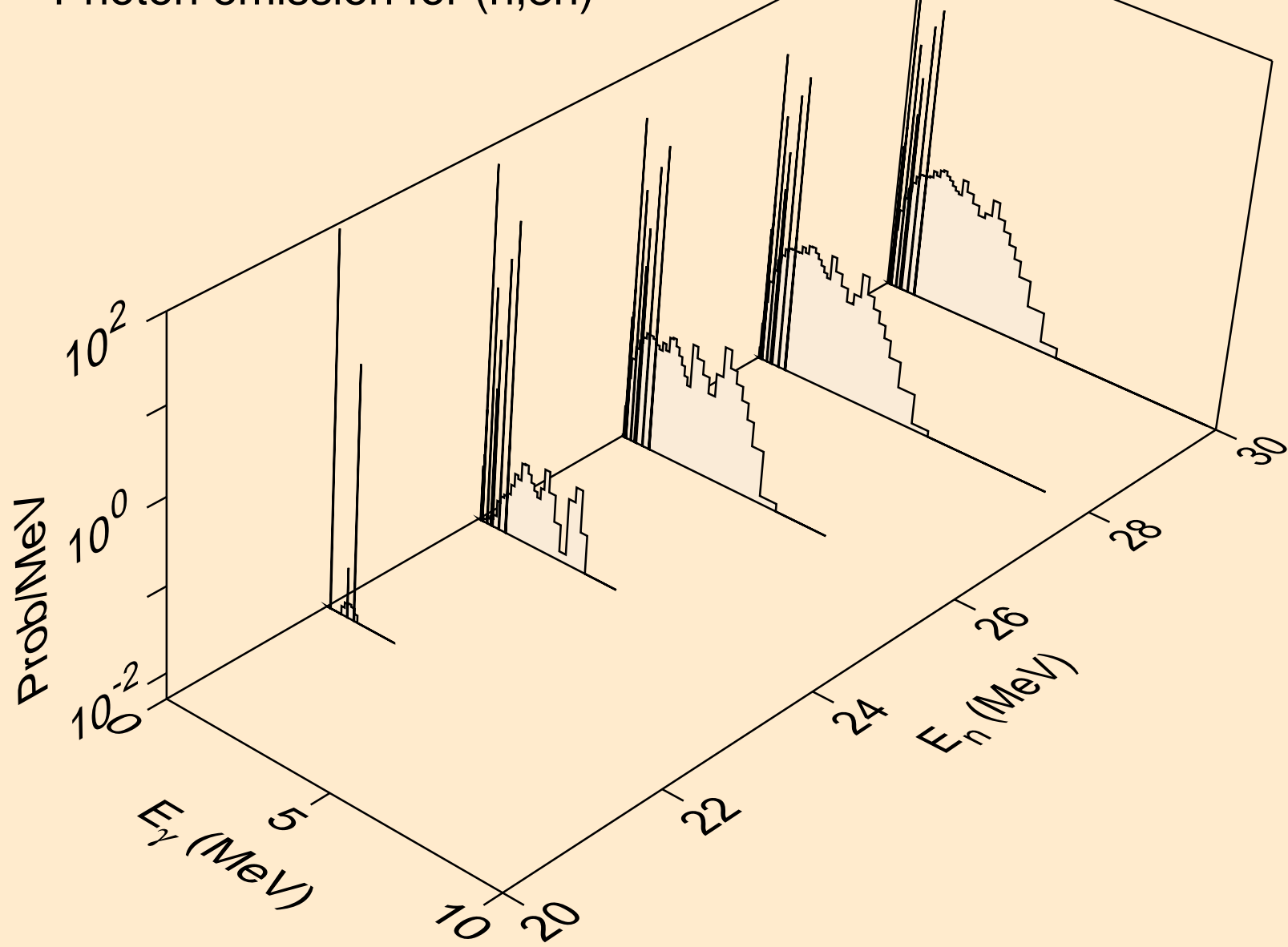
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Photon emission for (n,2nd)



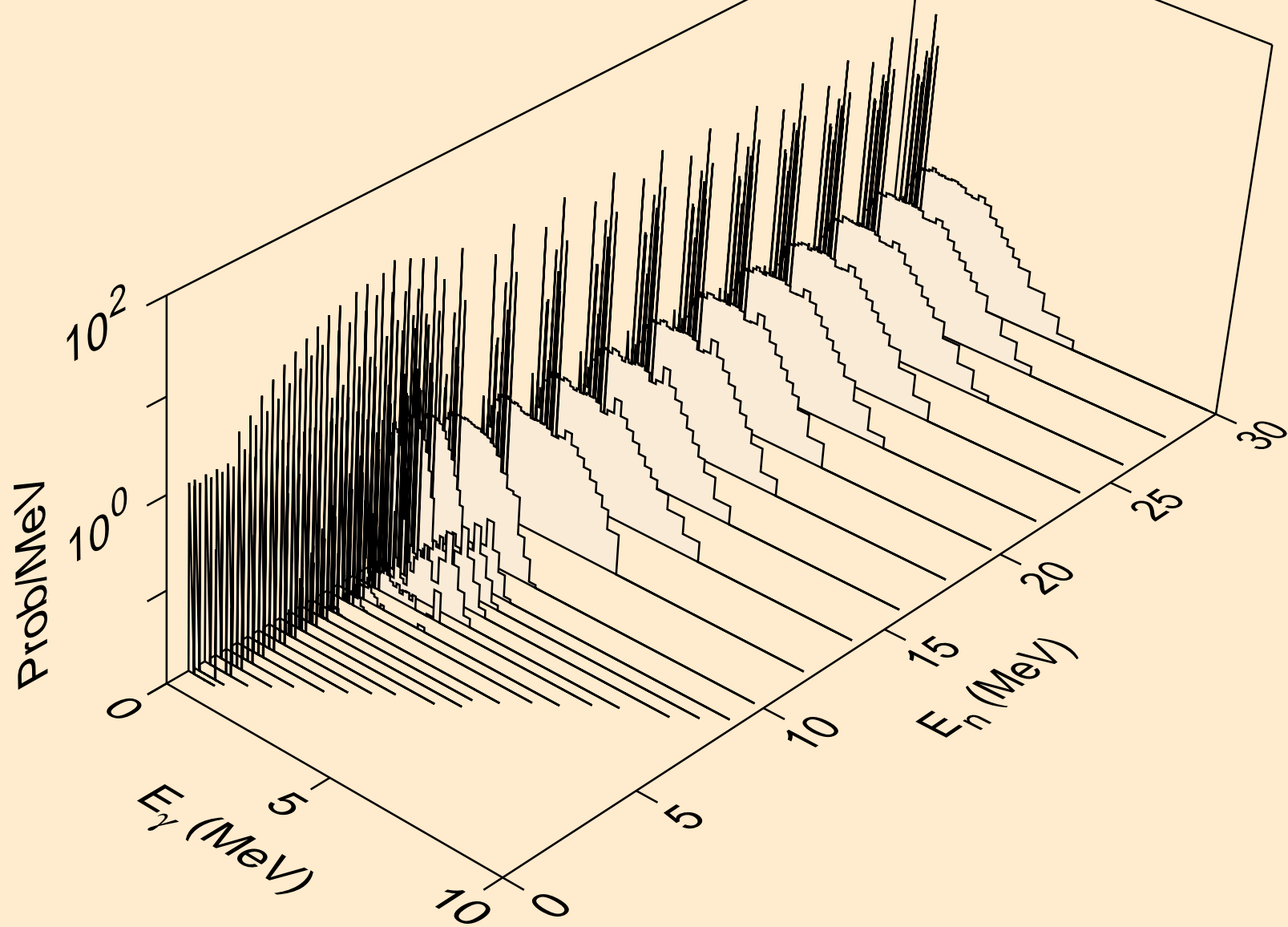
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Photon emission for (n,2n)



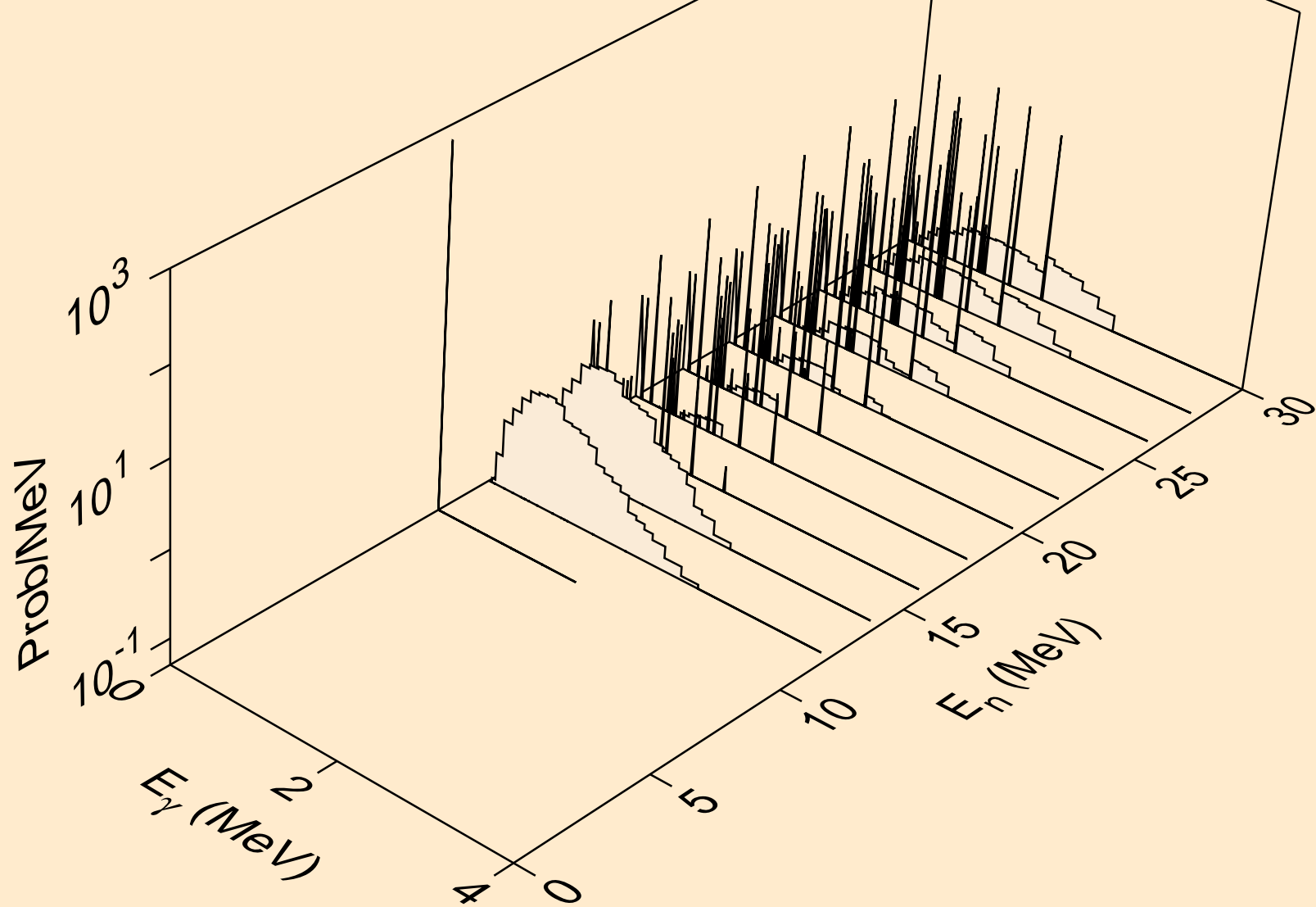
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

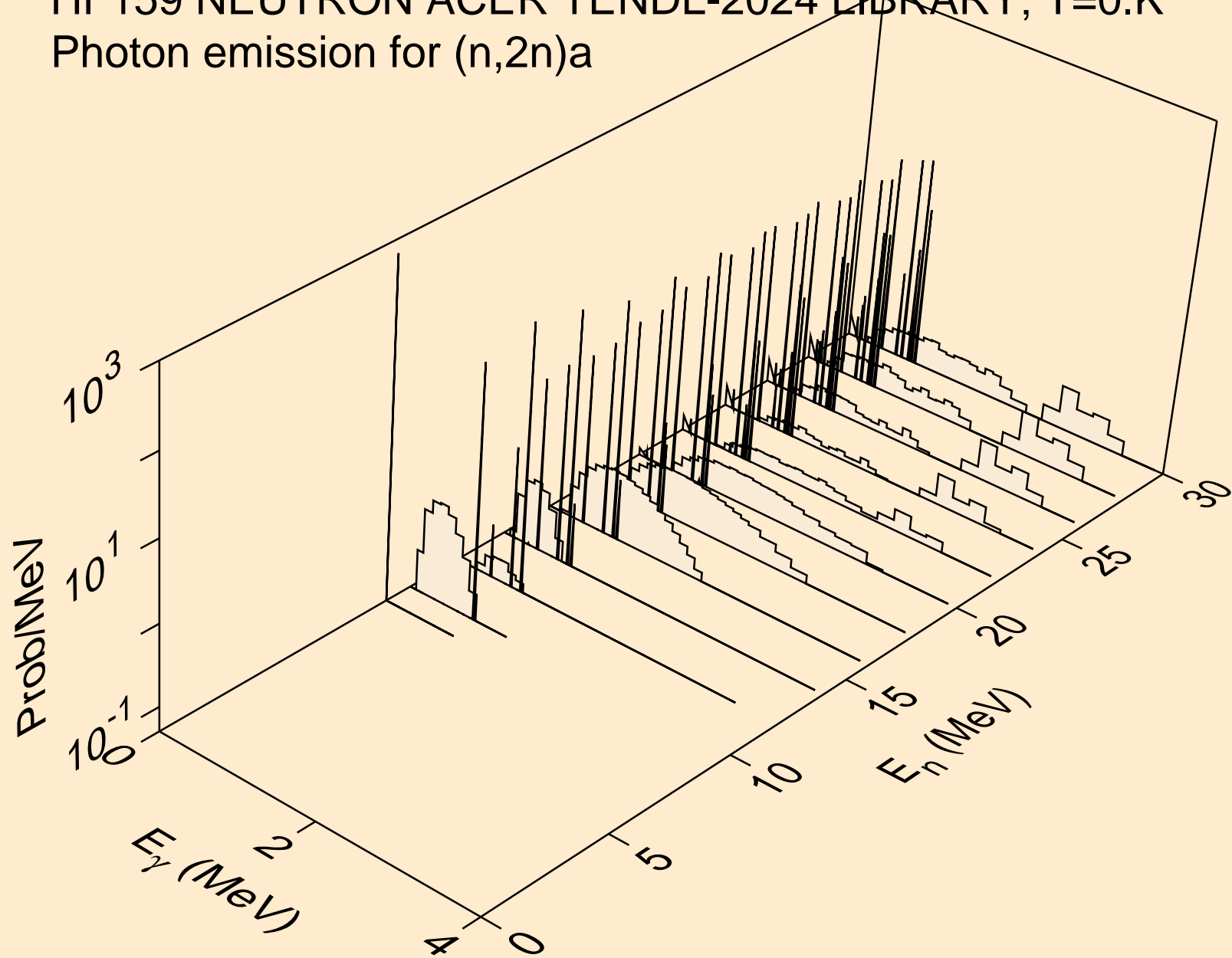


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Photon emission for (n,n\*)3a

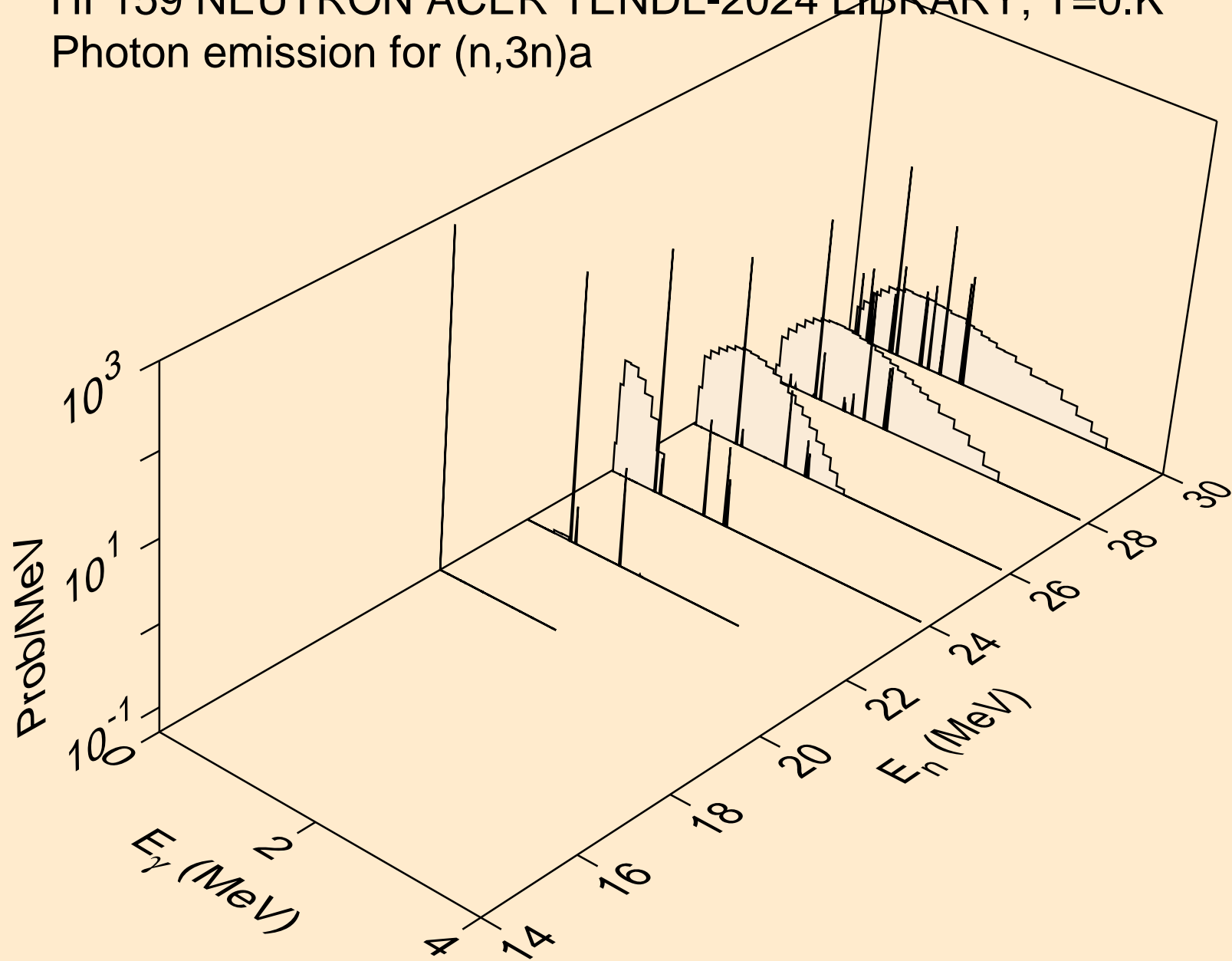




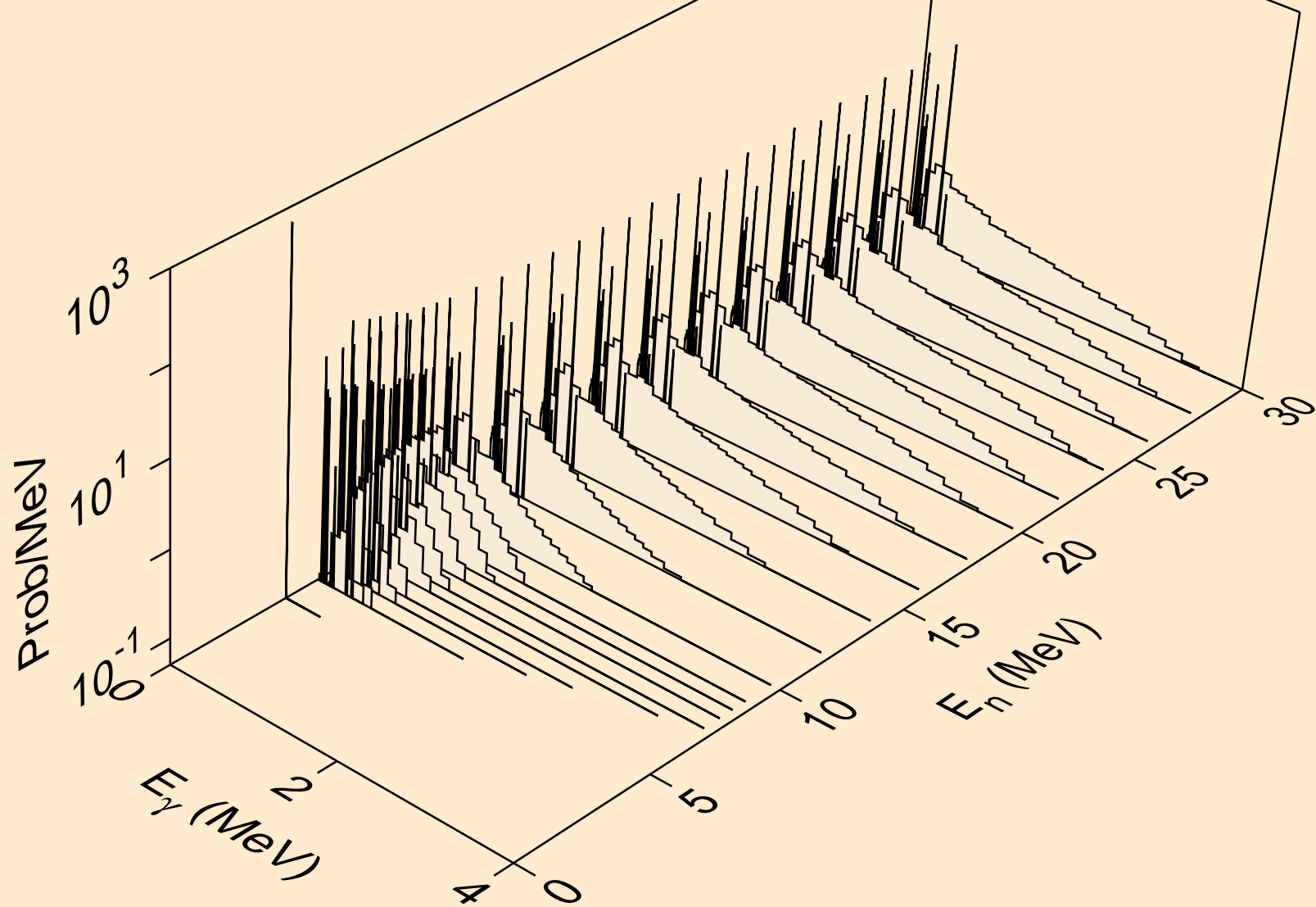
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Photon emission for (n,2n)a



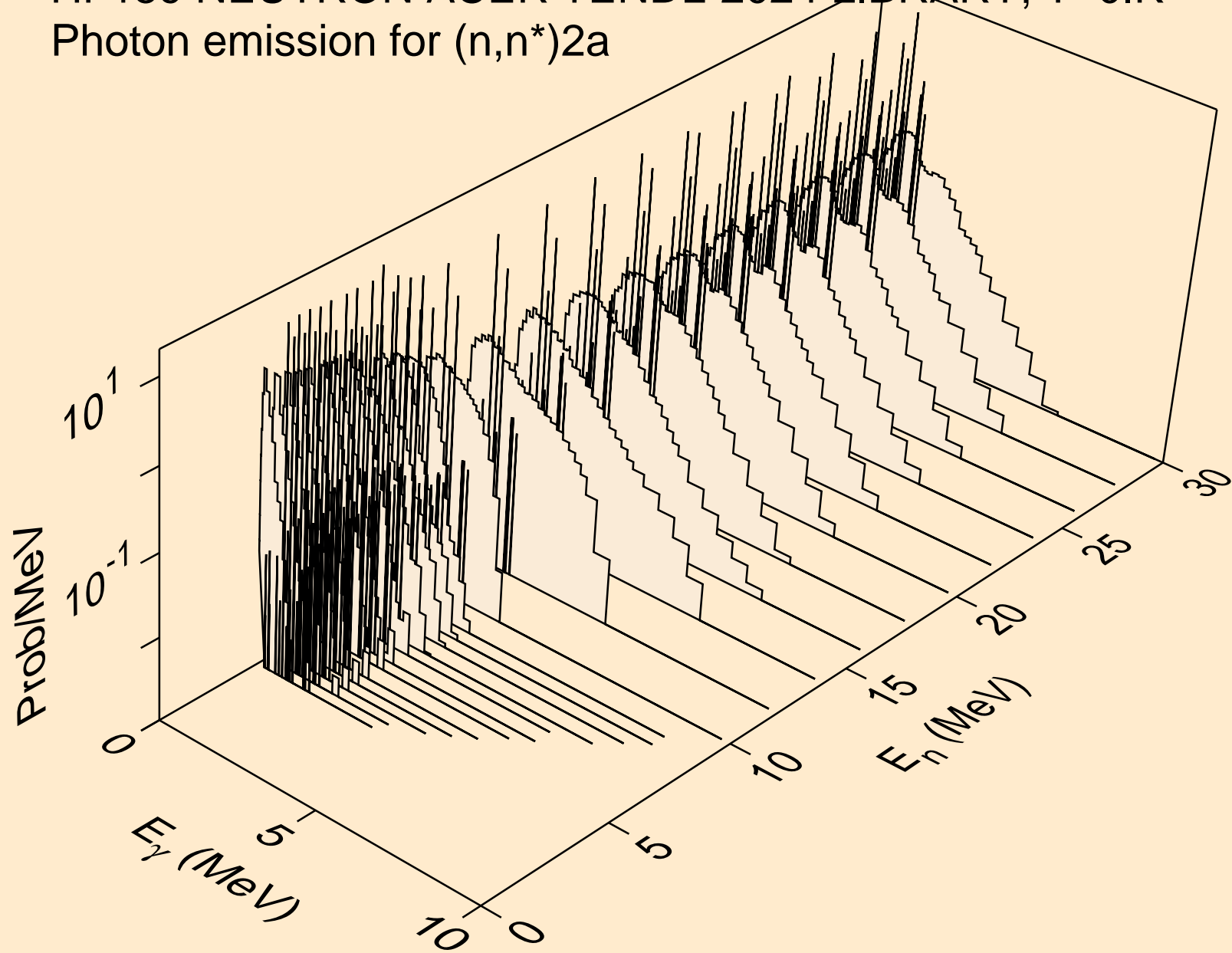
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Photon emission for (n,3n)a



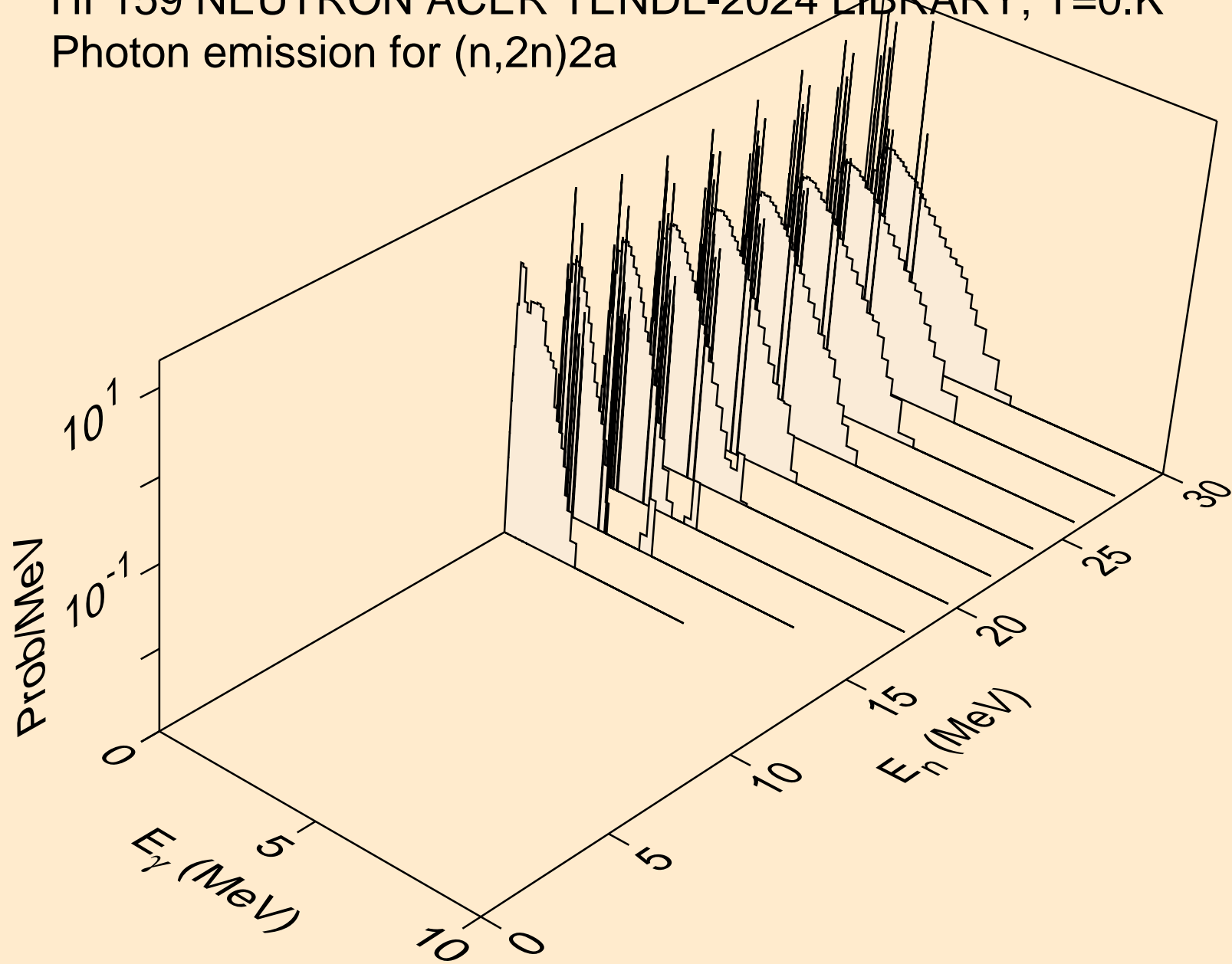
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



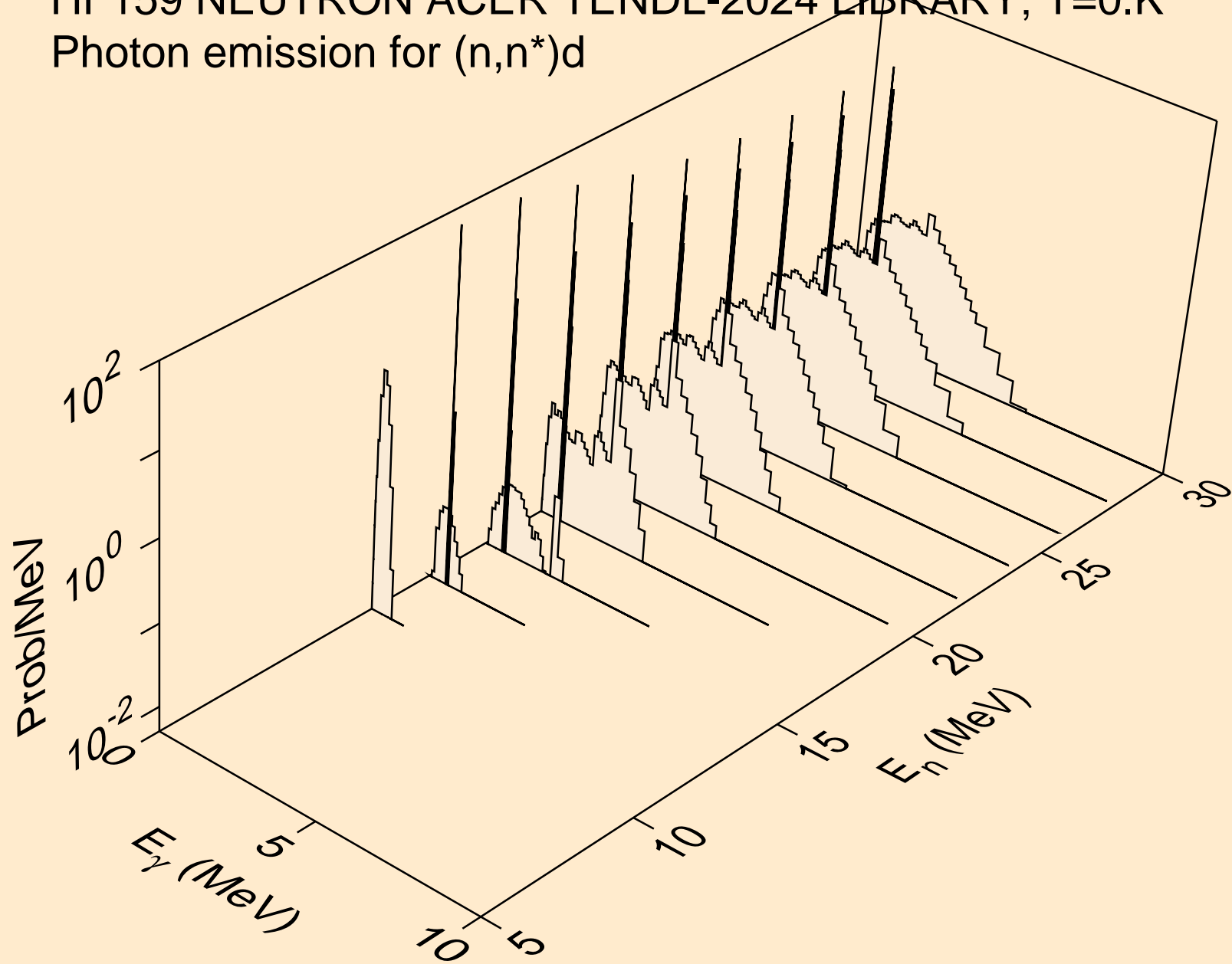
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



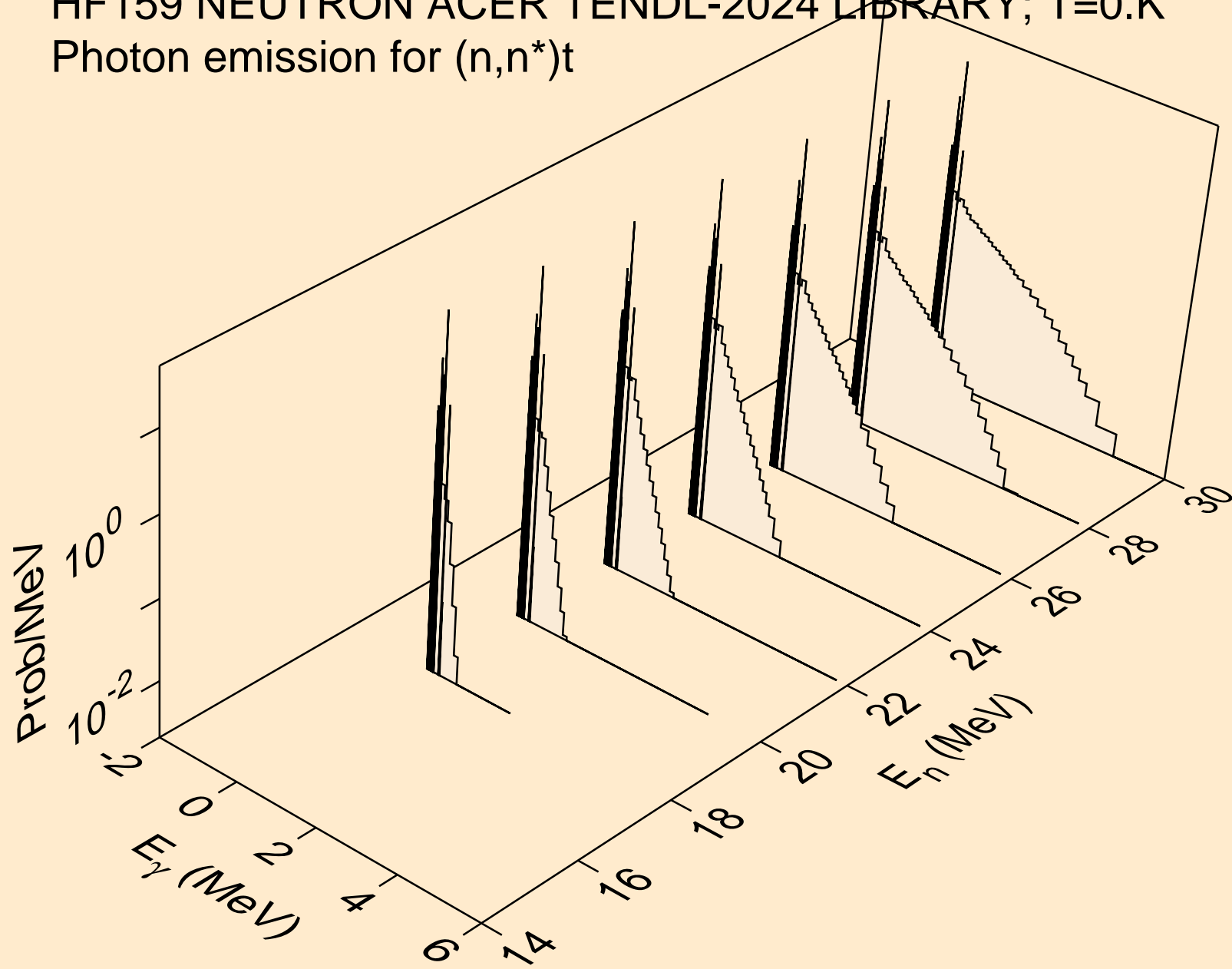
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



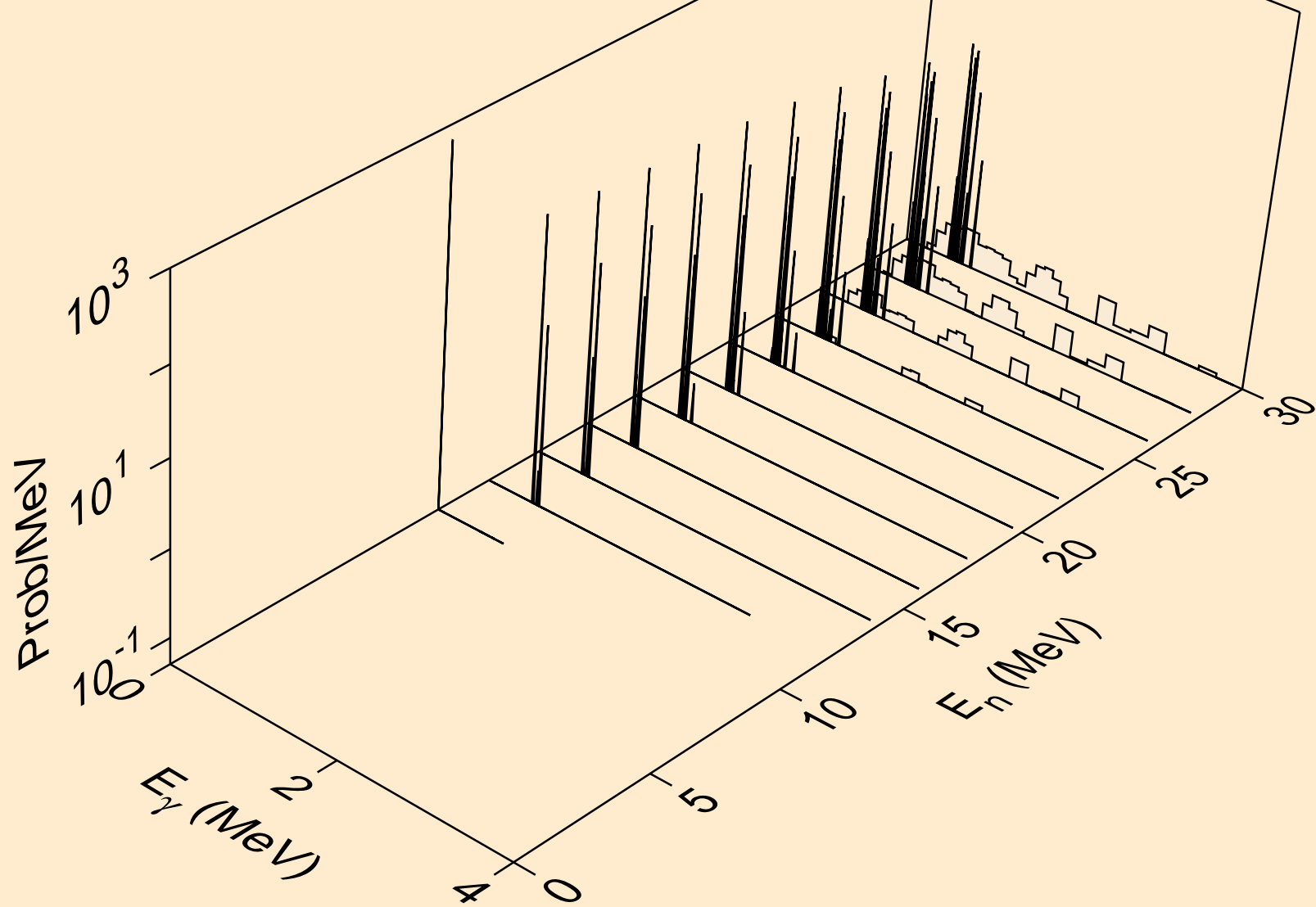
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

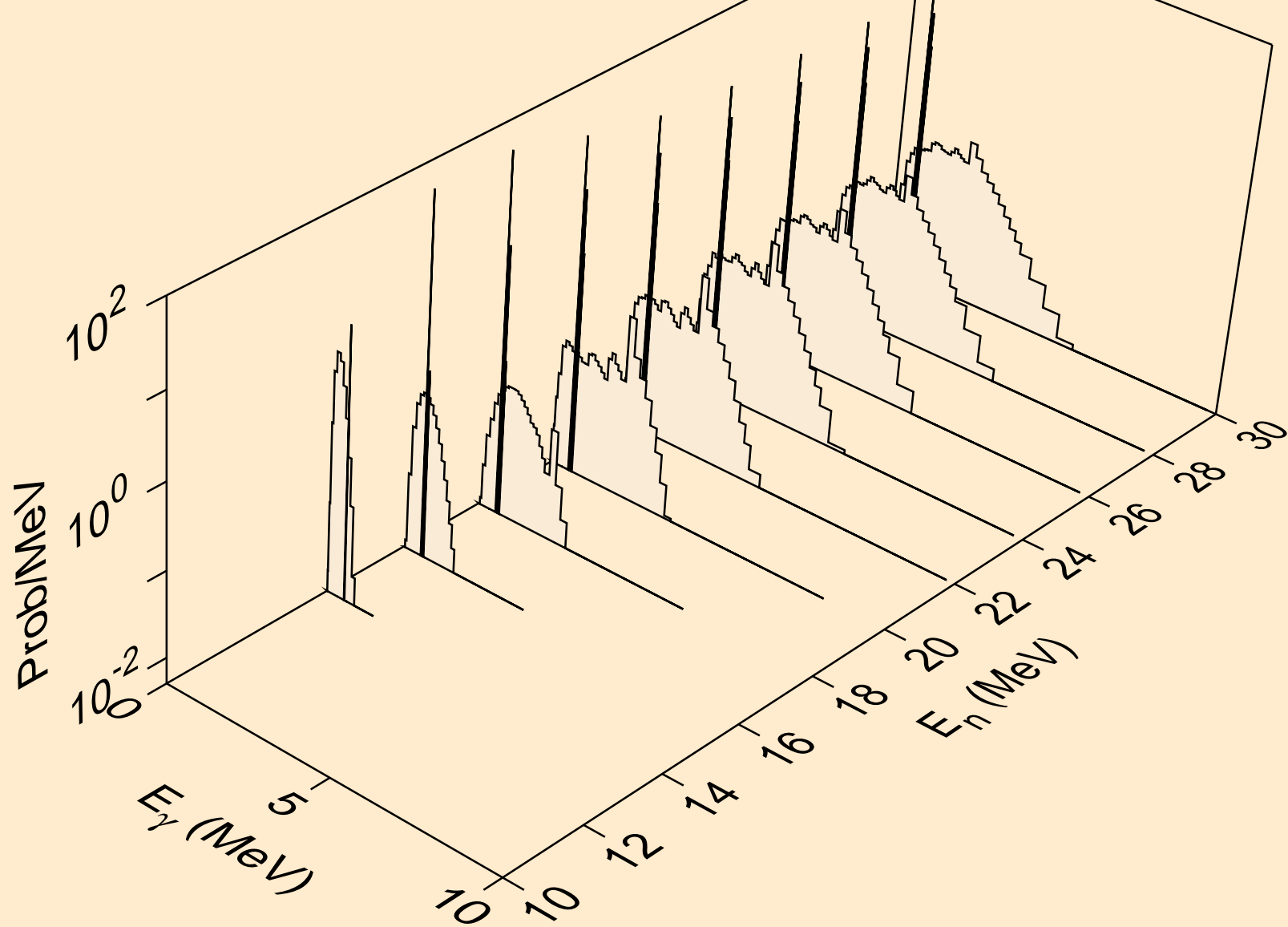


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

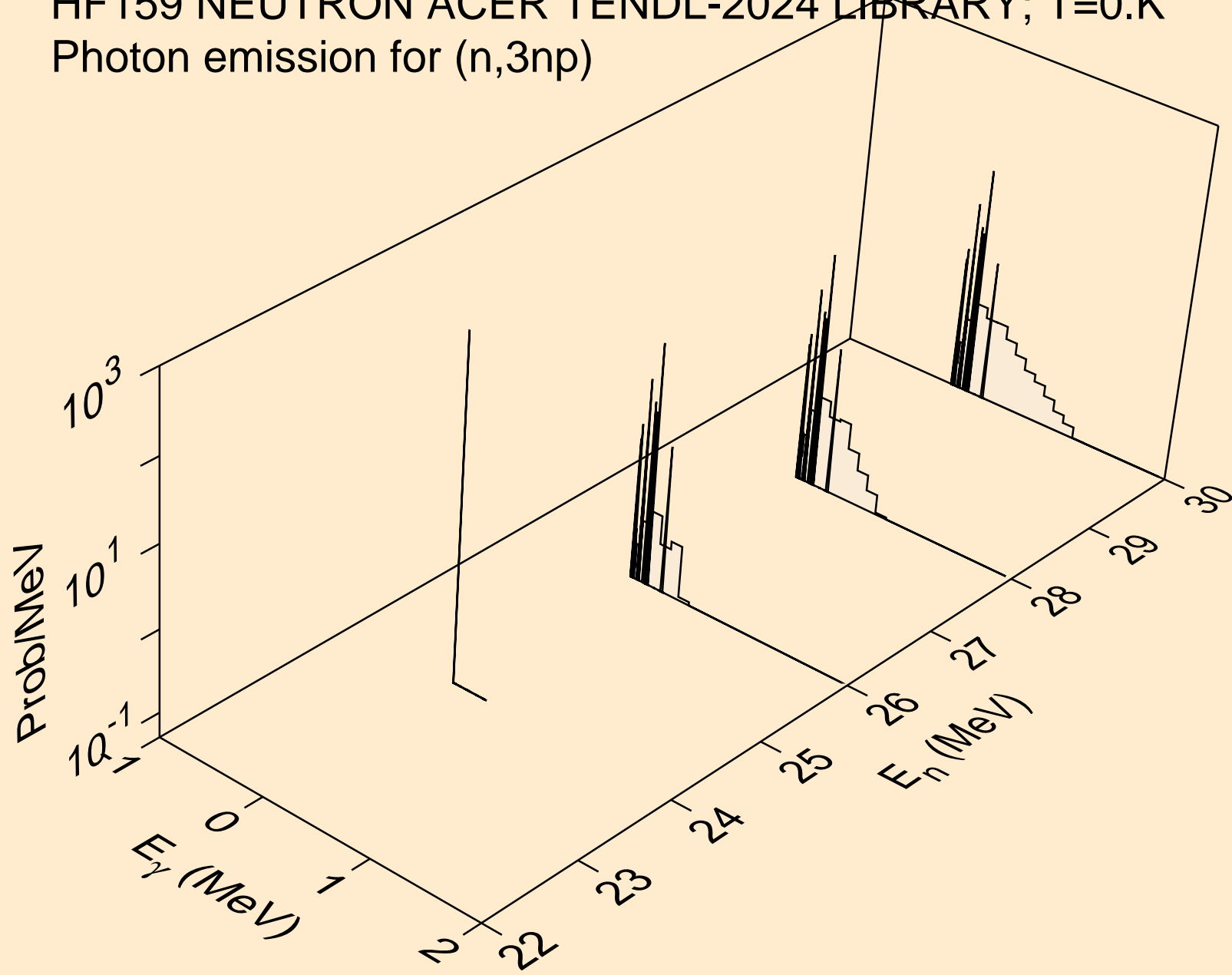




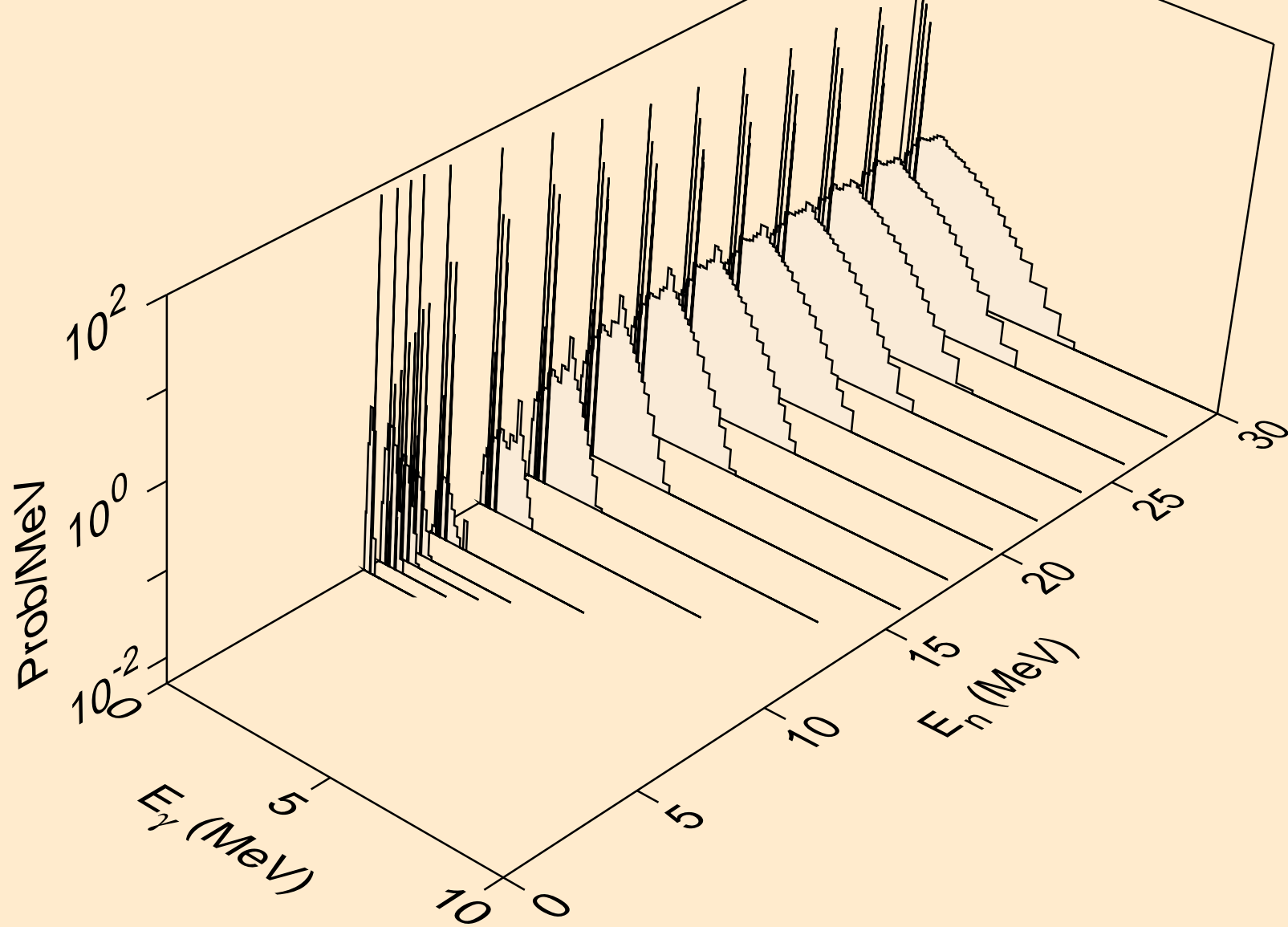
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



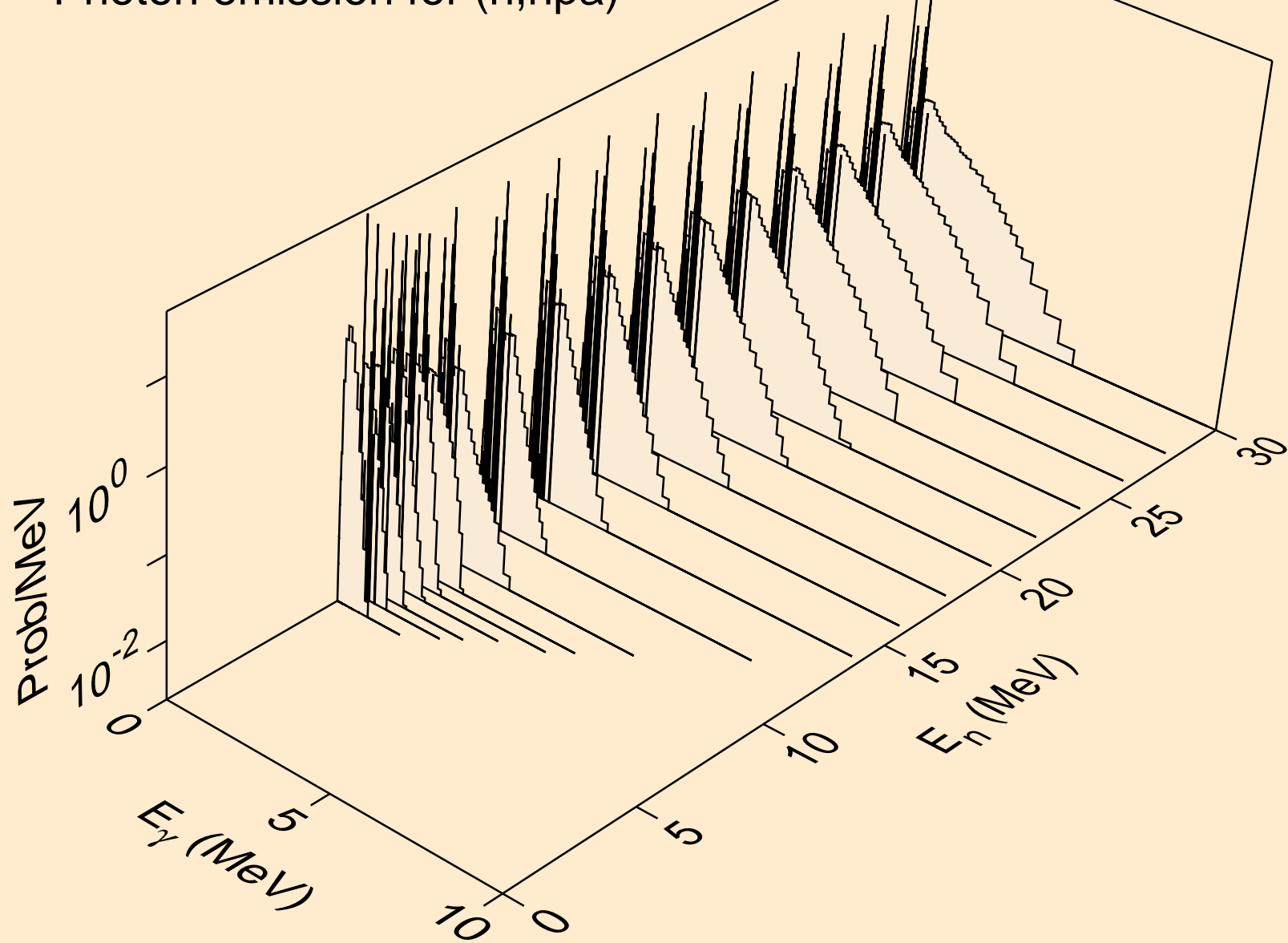
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Photon emission for (n,3np)



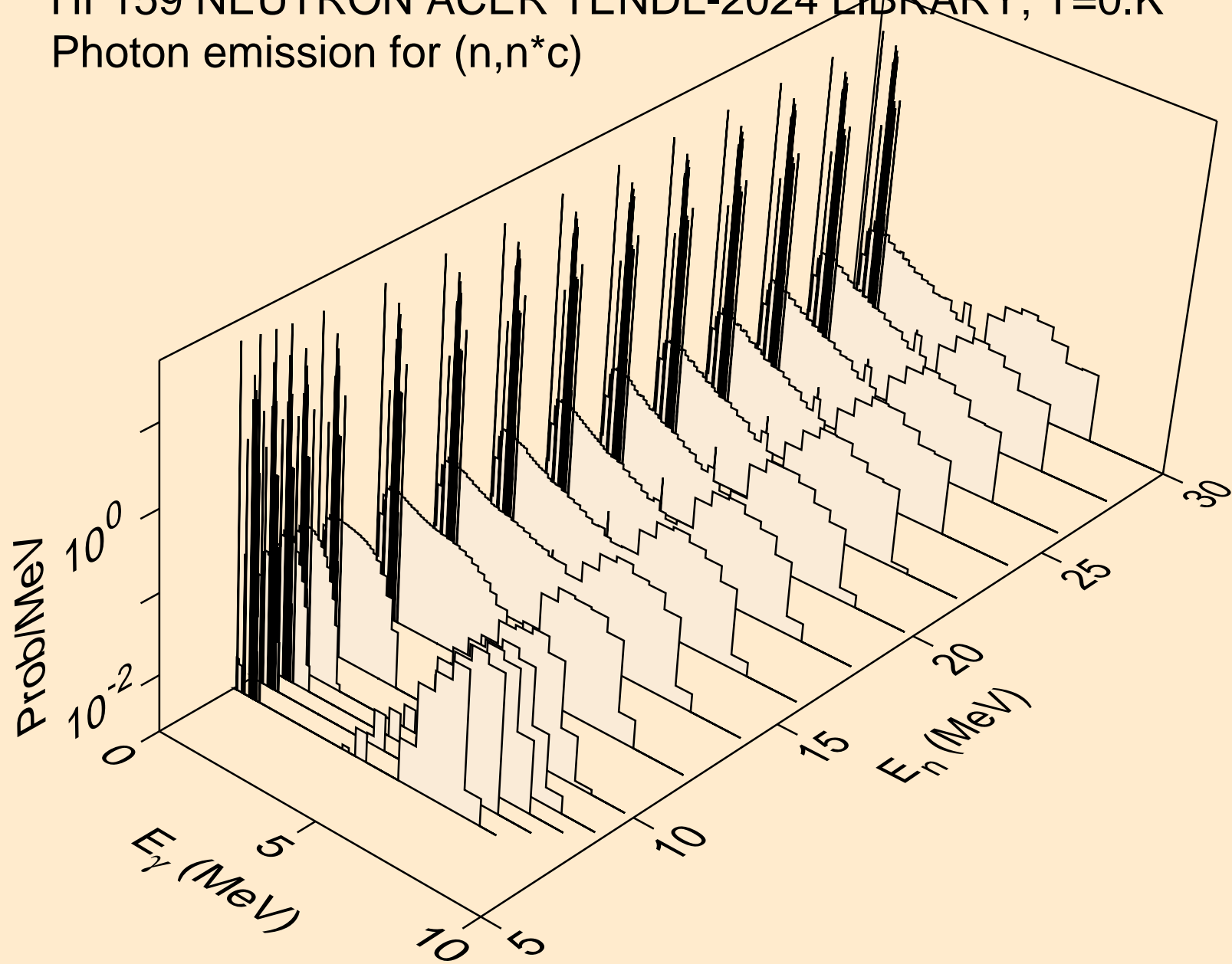
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Photon emission for (n,n2p)



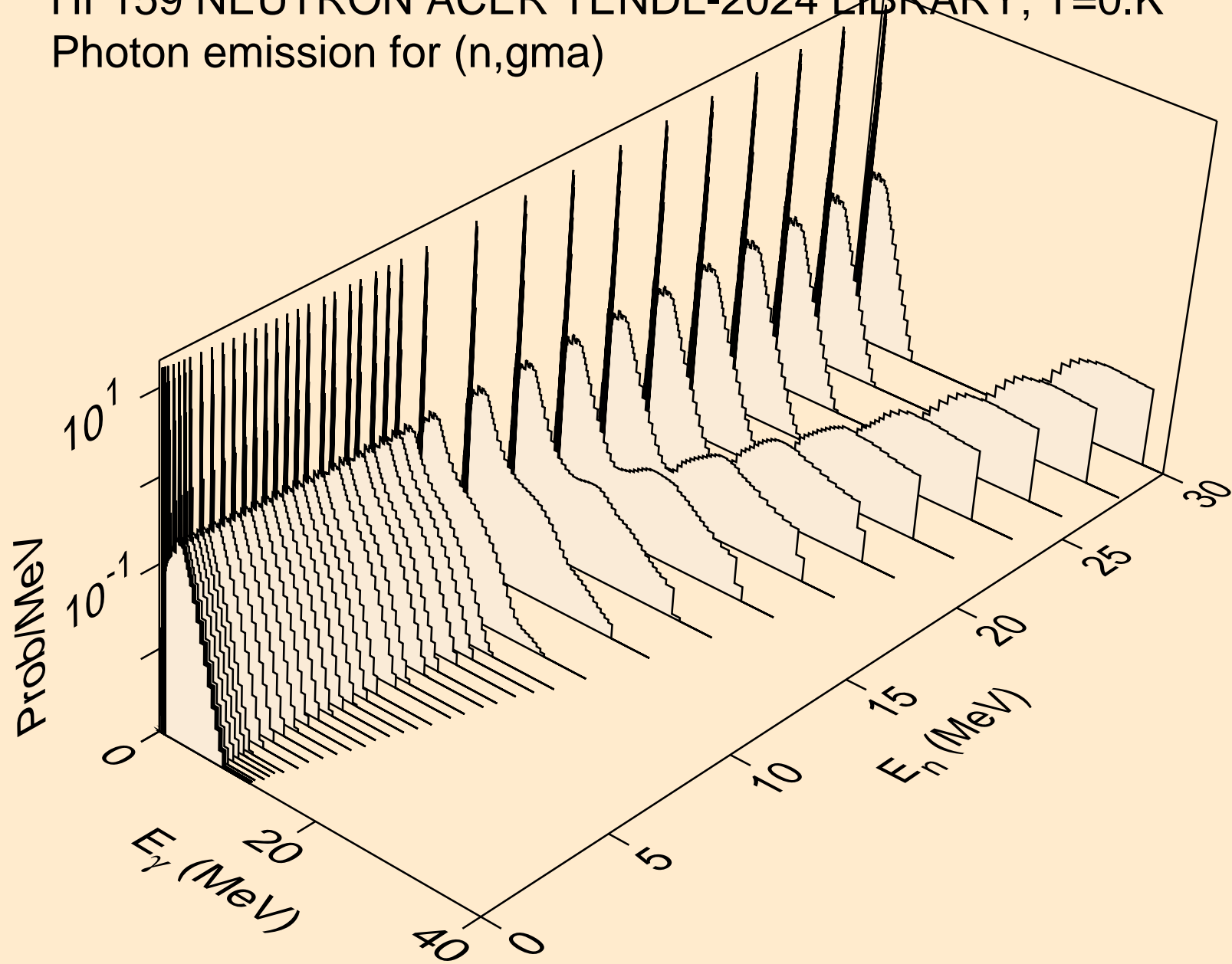
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Photon emission for (n,npa)



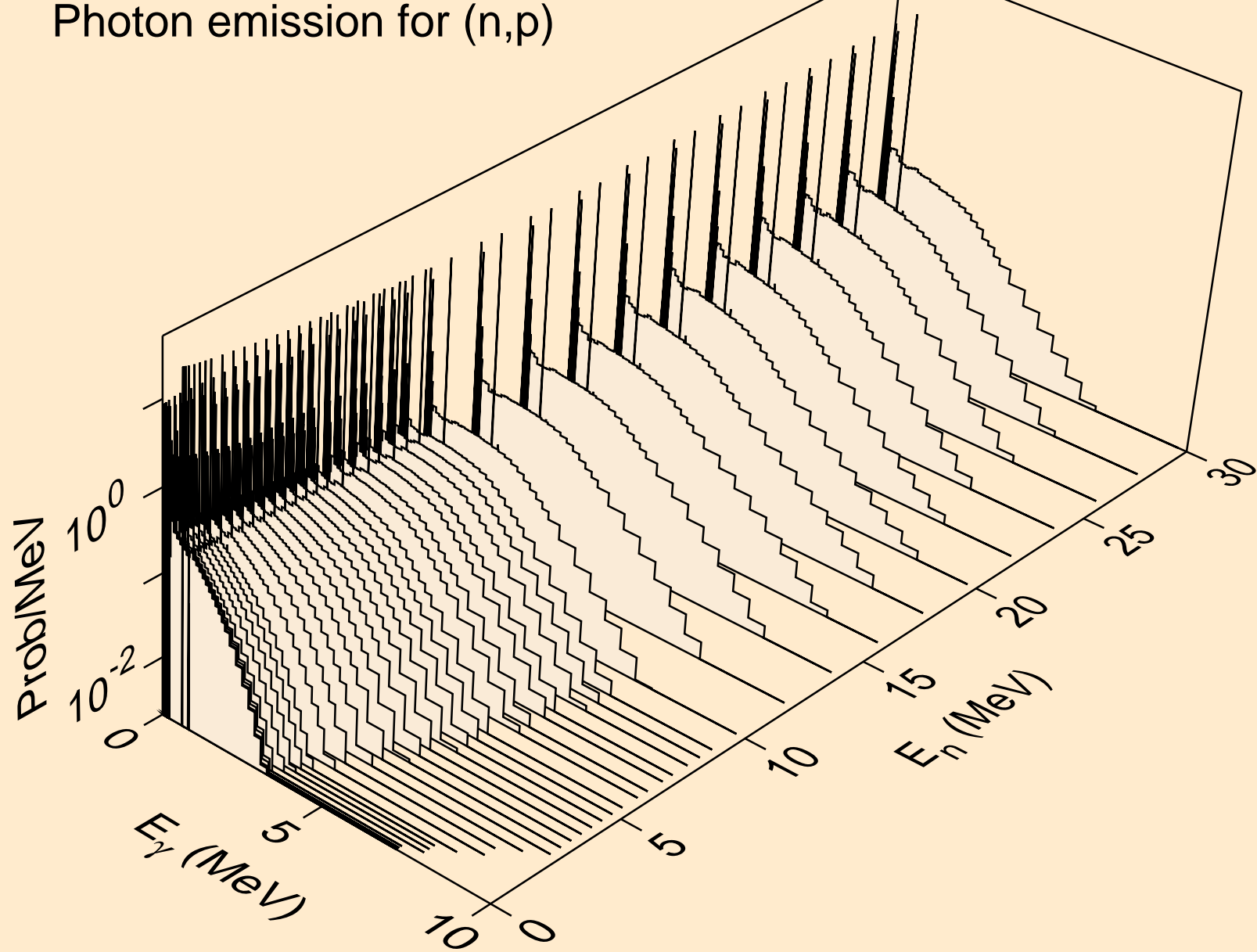
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Photon emission for (n,n\*c)



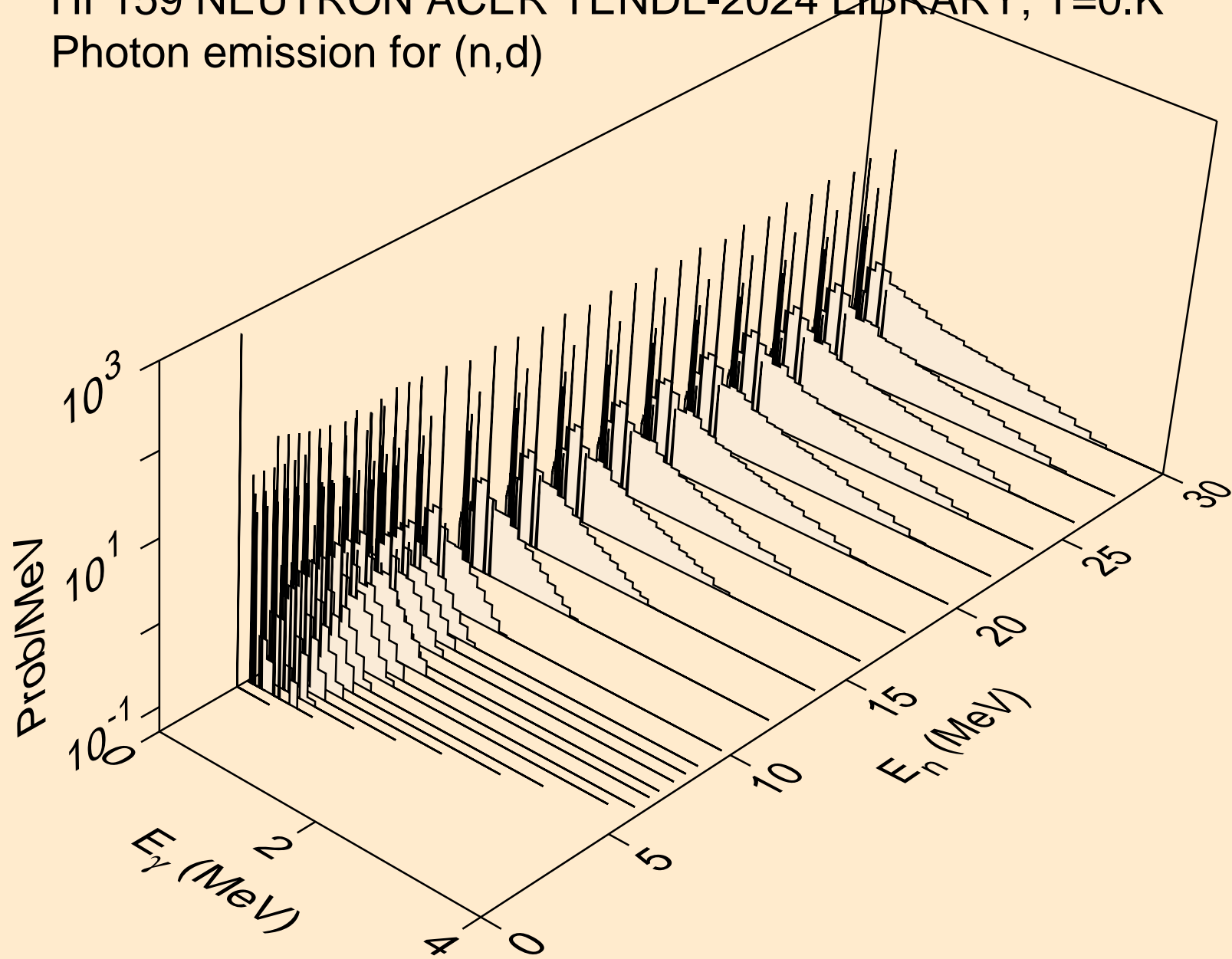
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

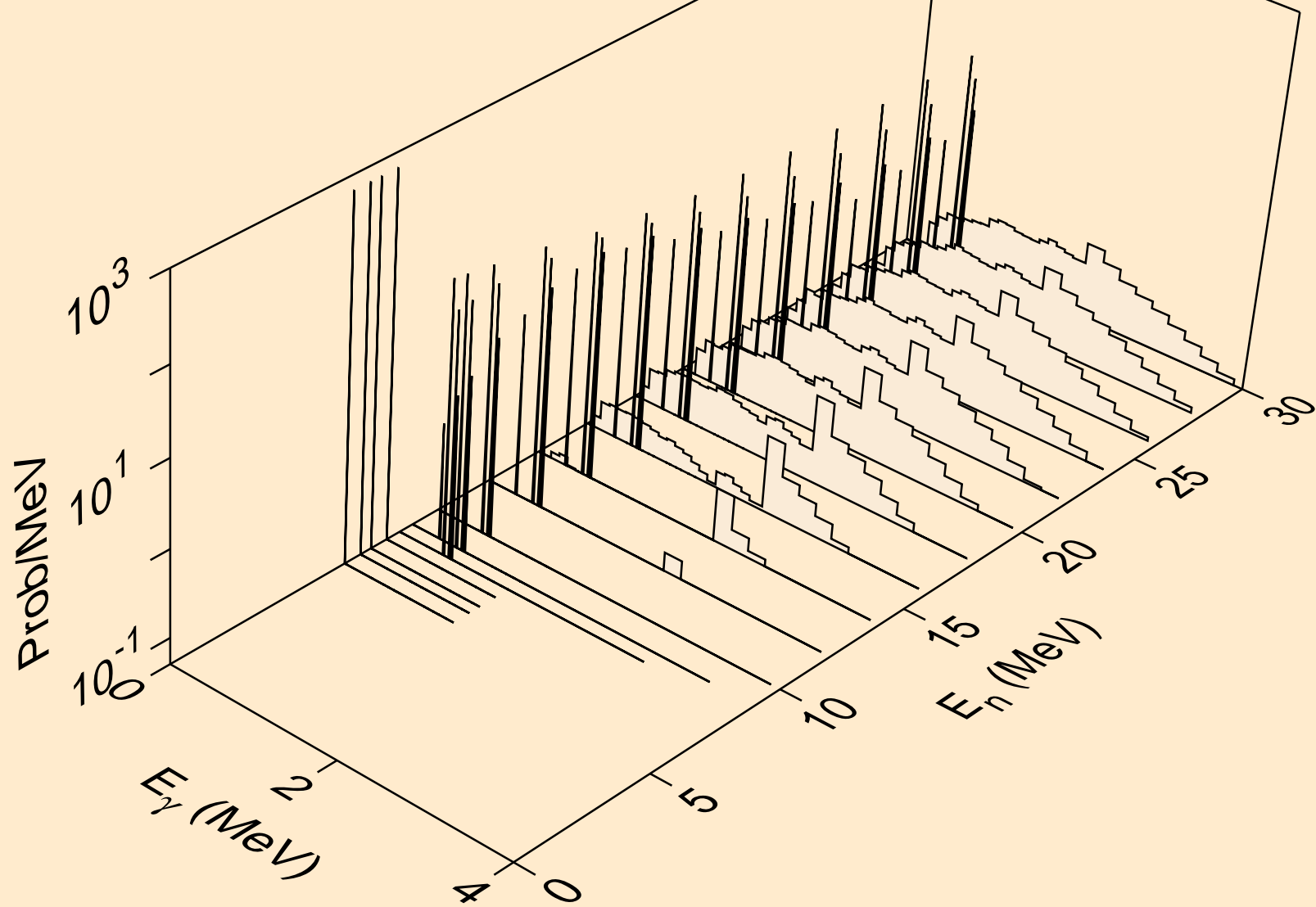


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Photon emission for (n,d)

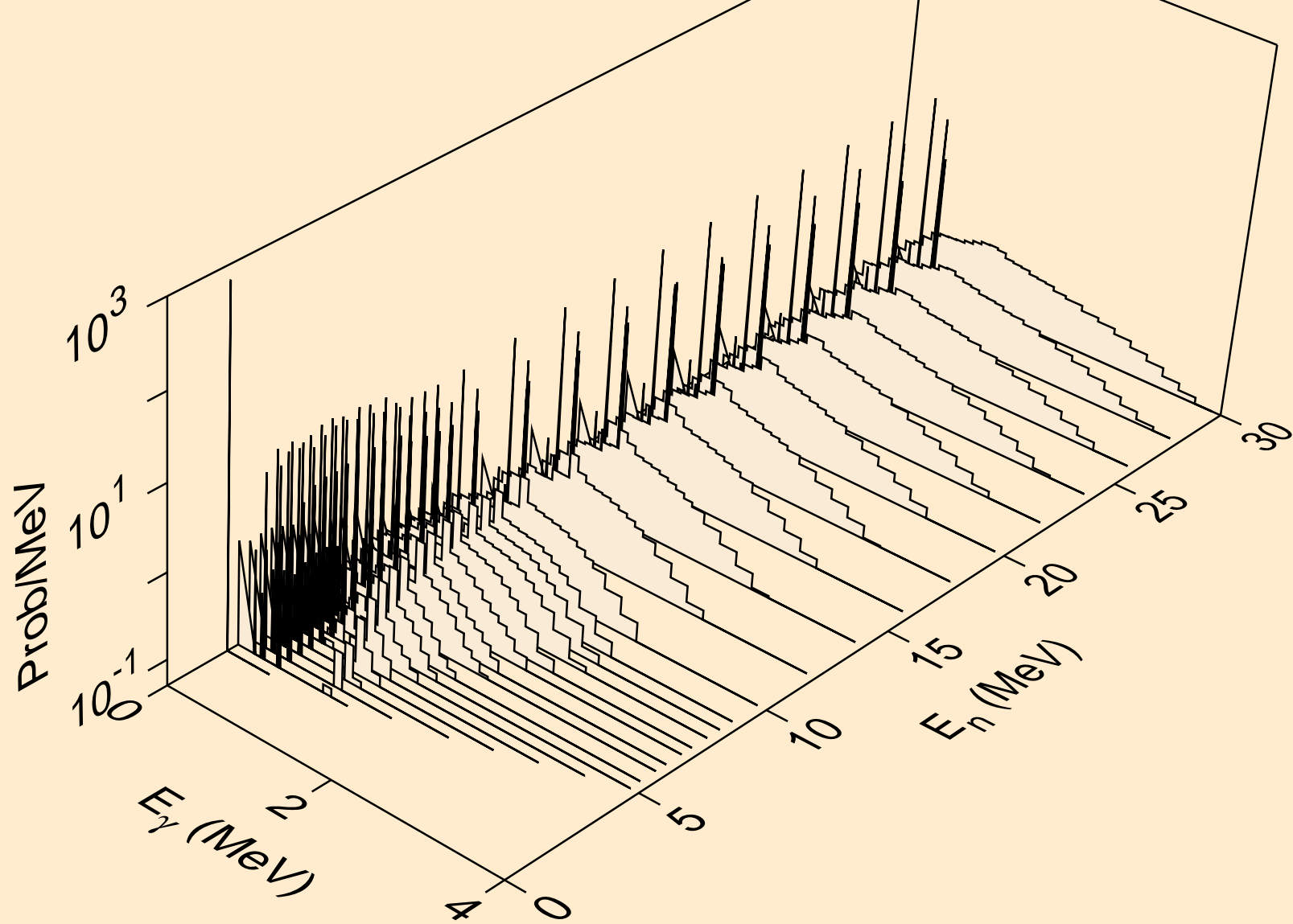




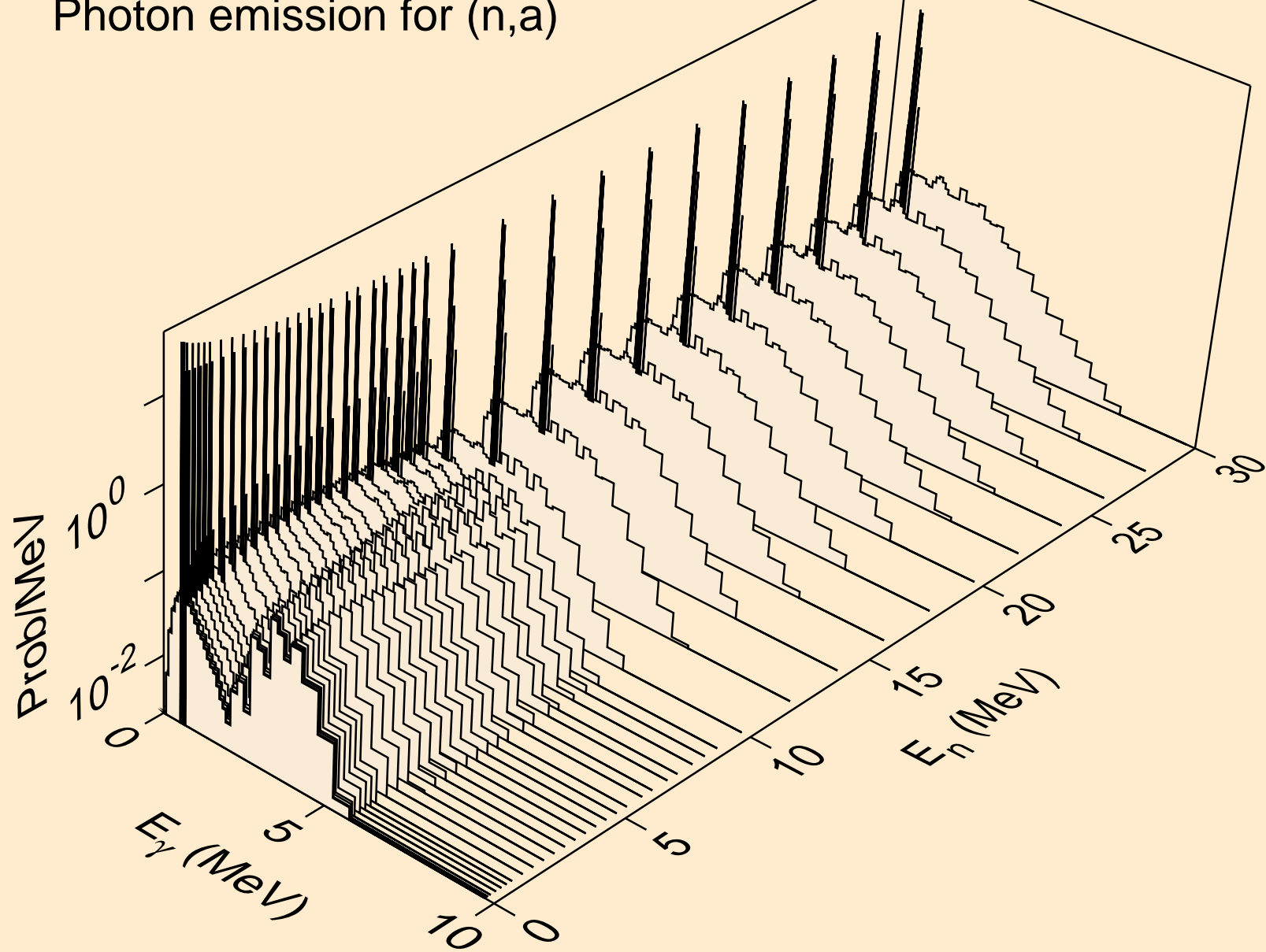
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Photon emission for (n,t)



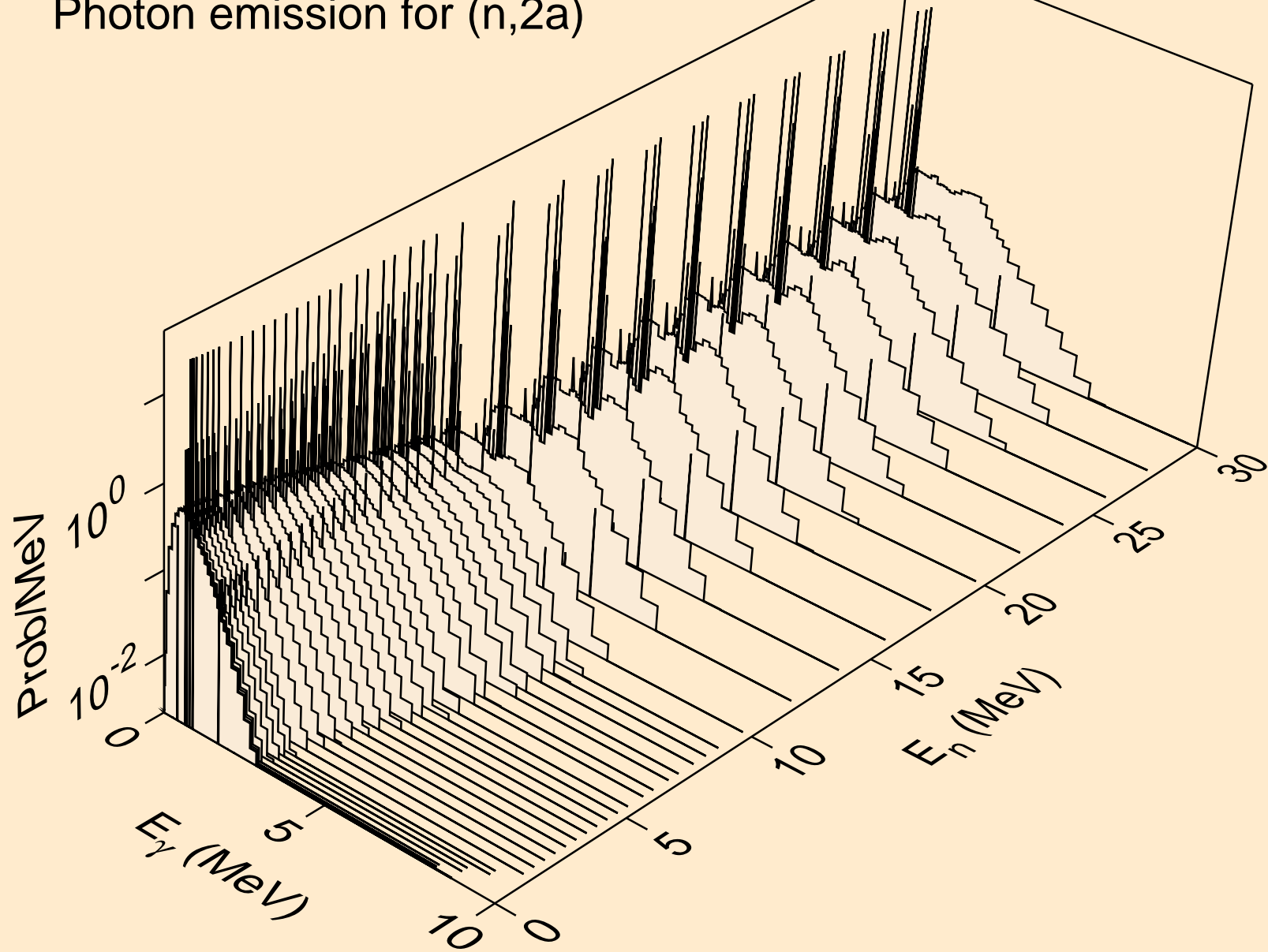
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Photon emission for (n,he3)



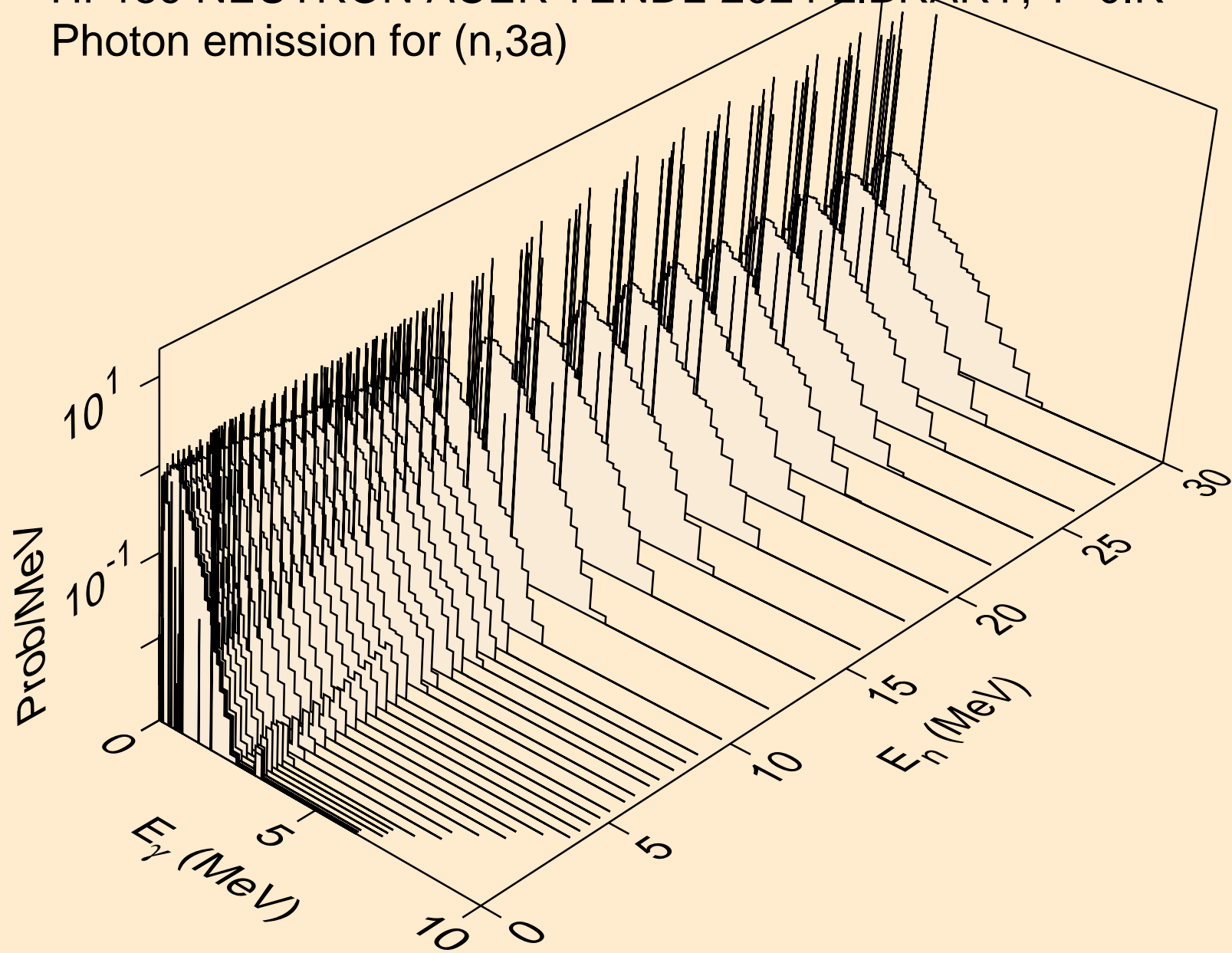
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Photon emission for (n,a)



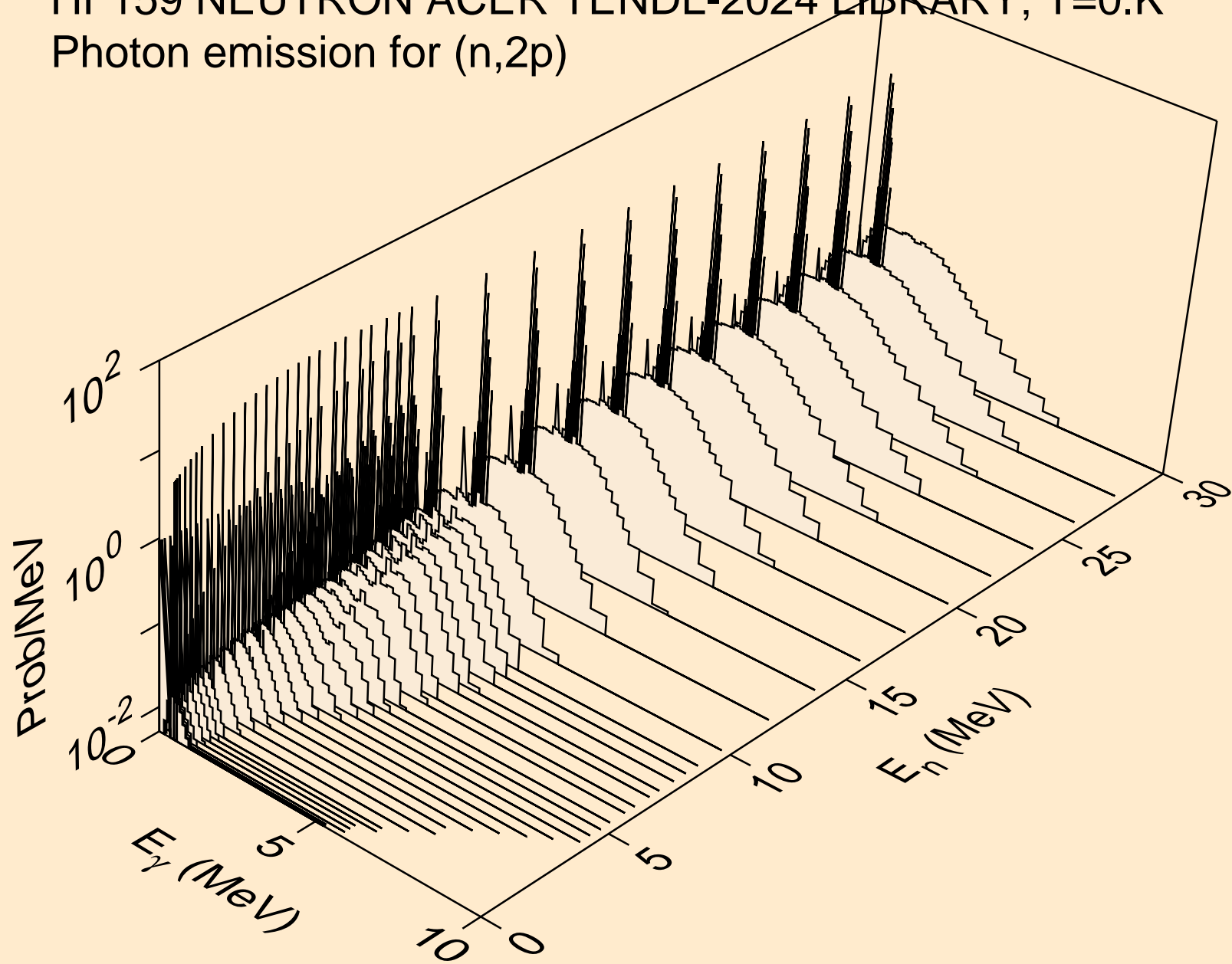
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Photon emission for (n,2a)



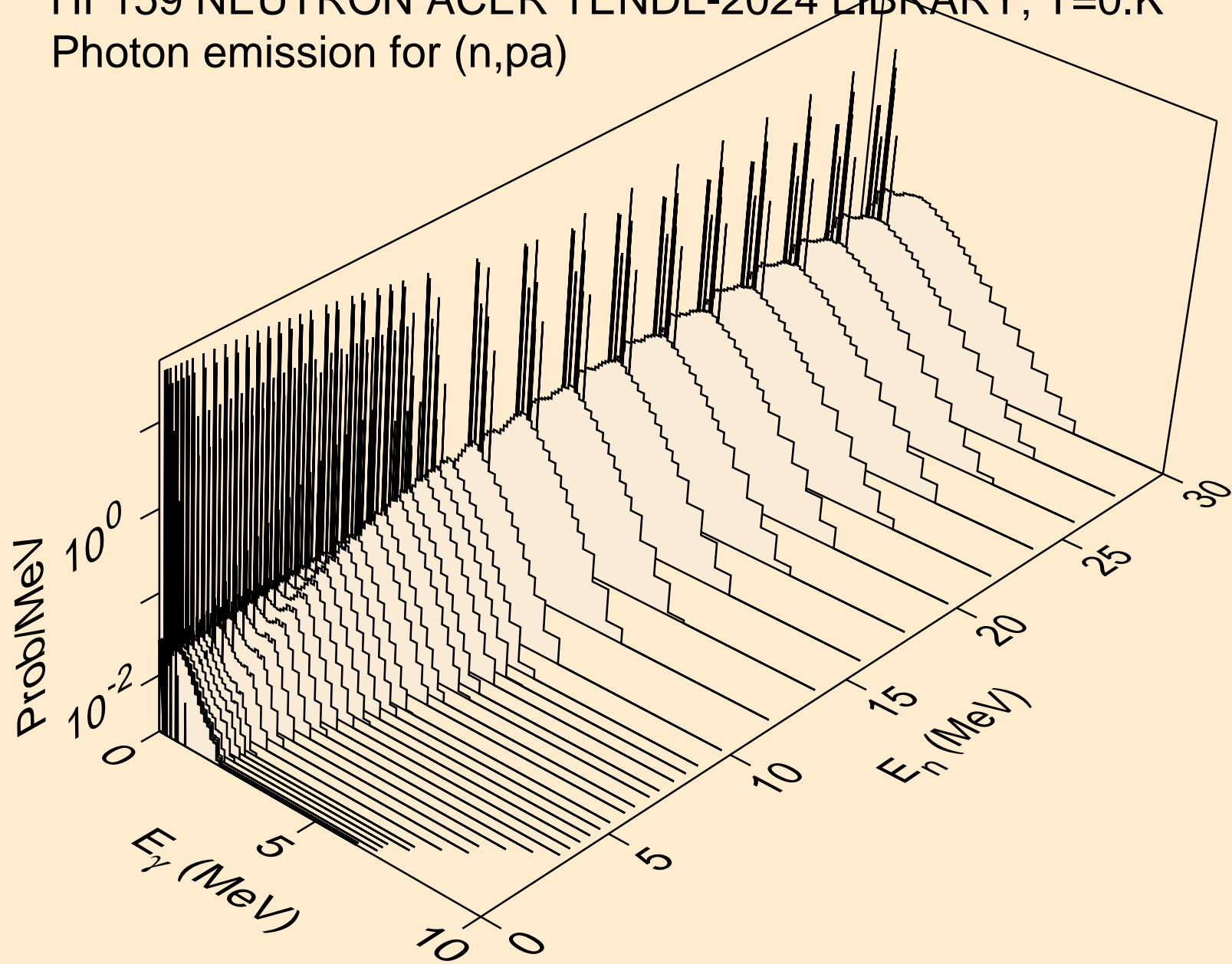
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Photon emission for (n,3a)



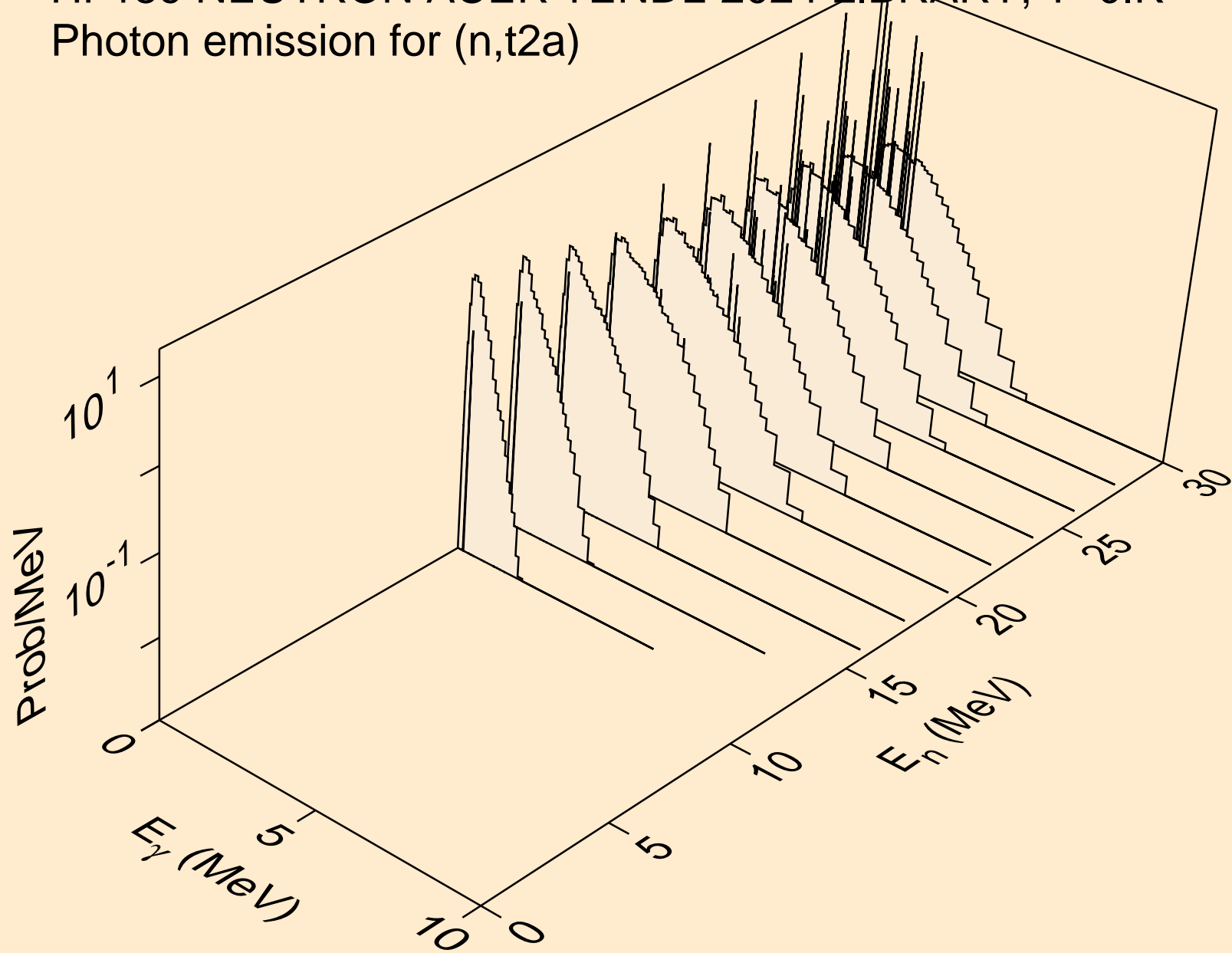
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

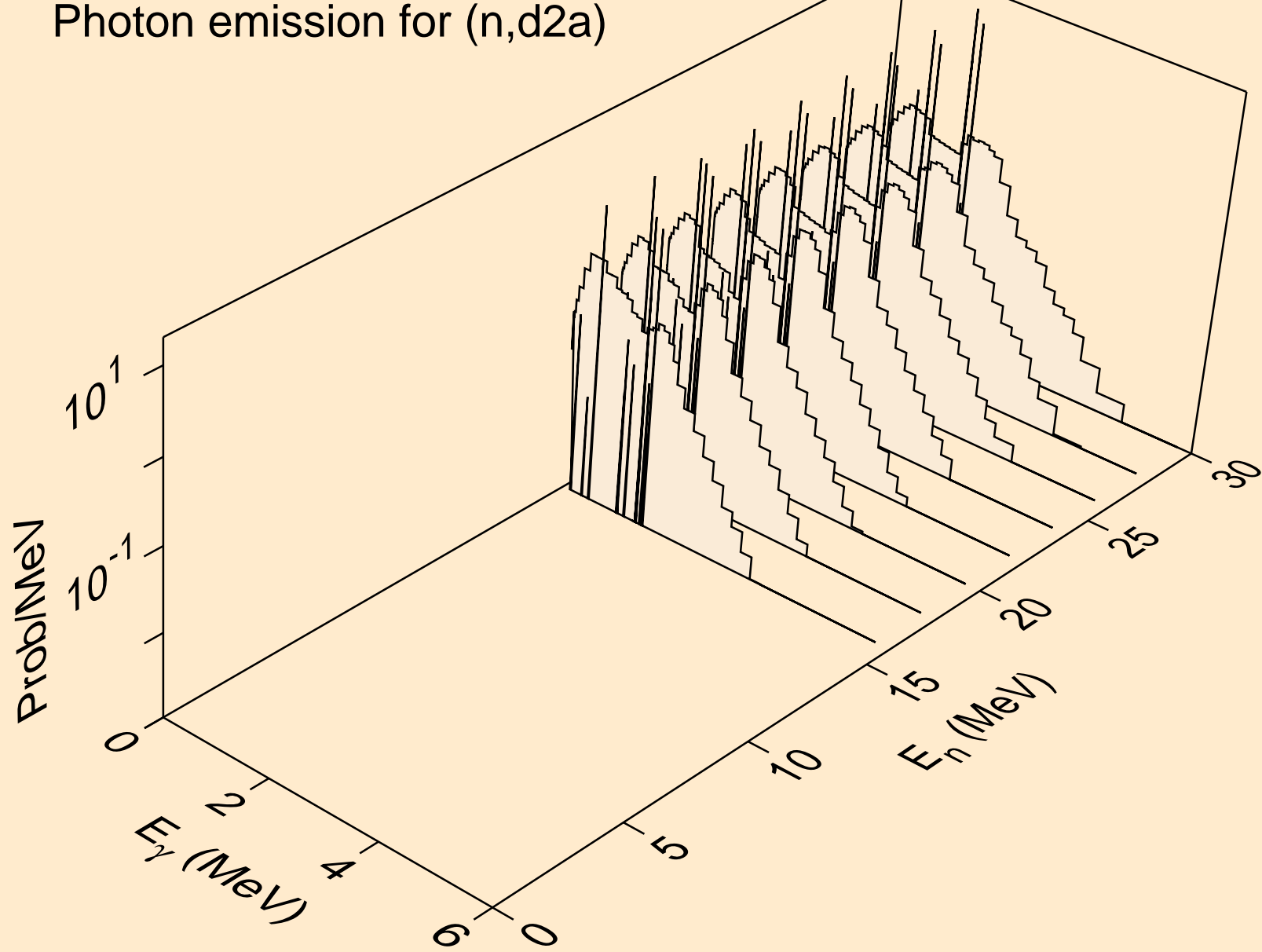


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t2a)

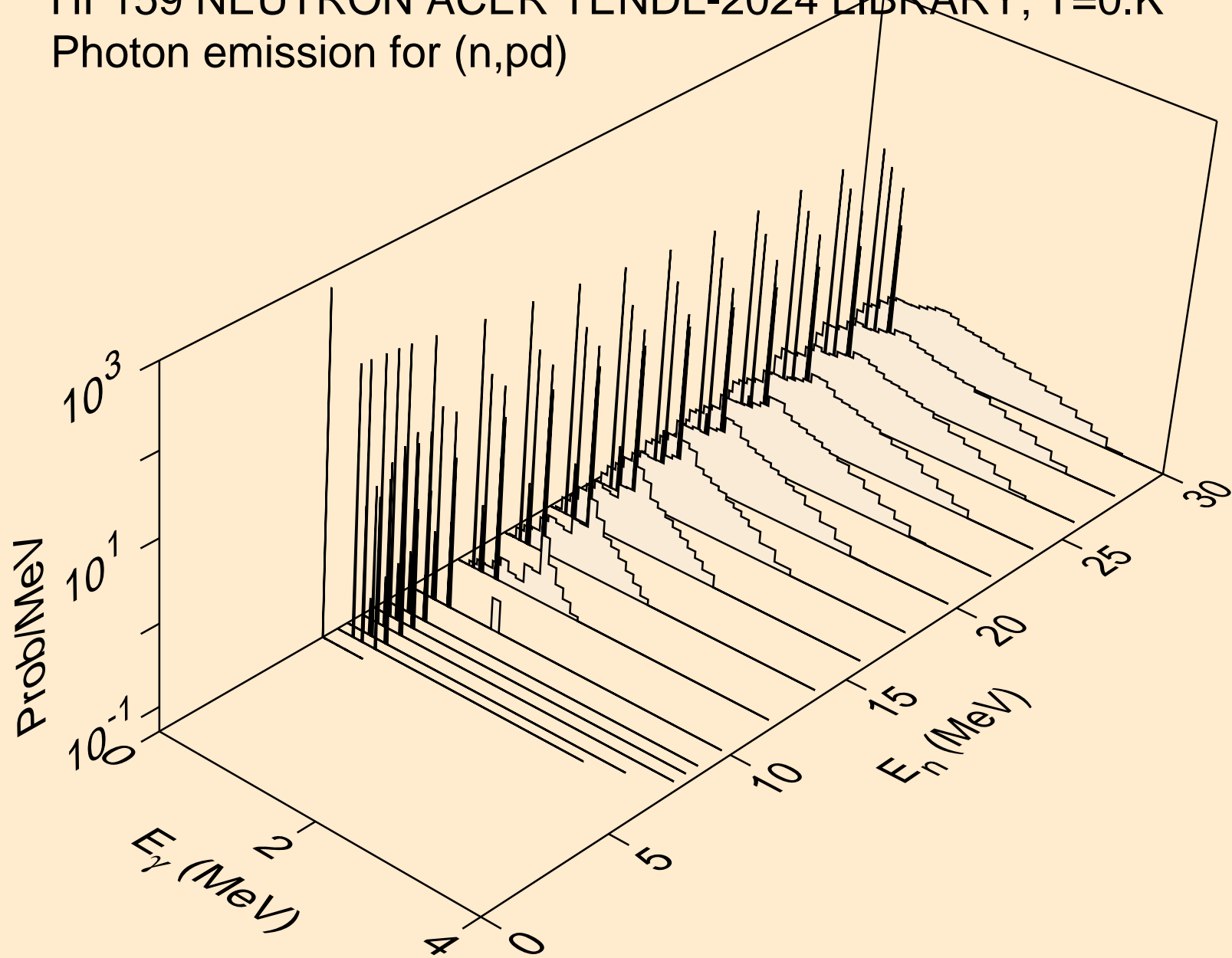




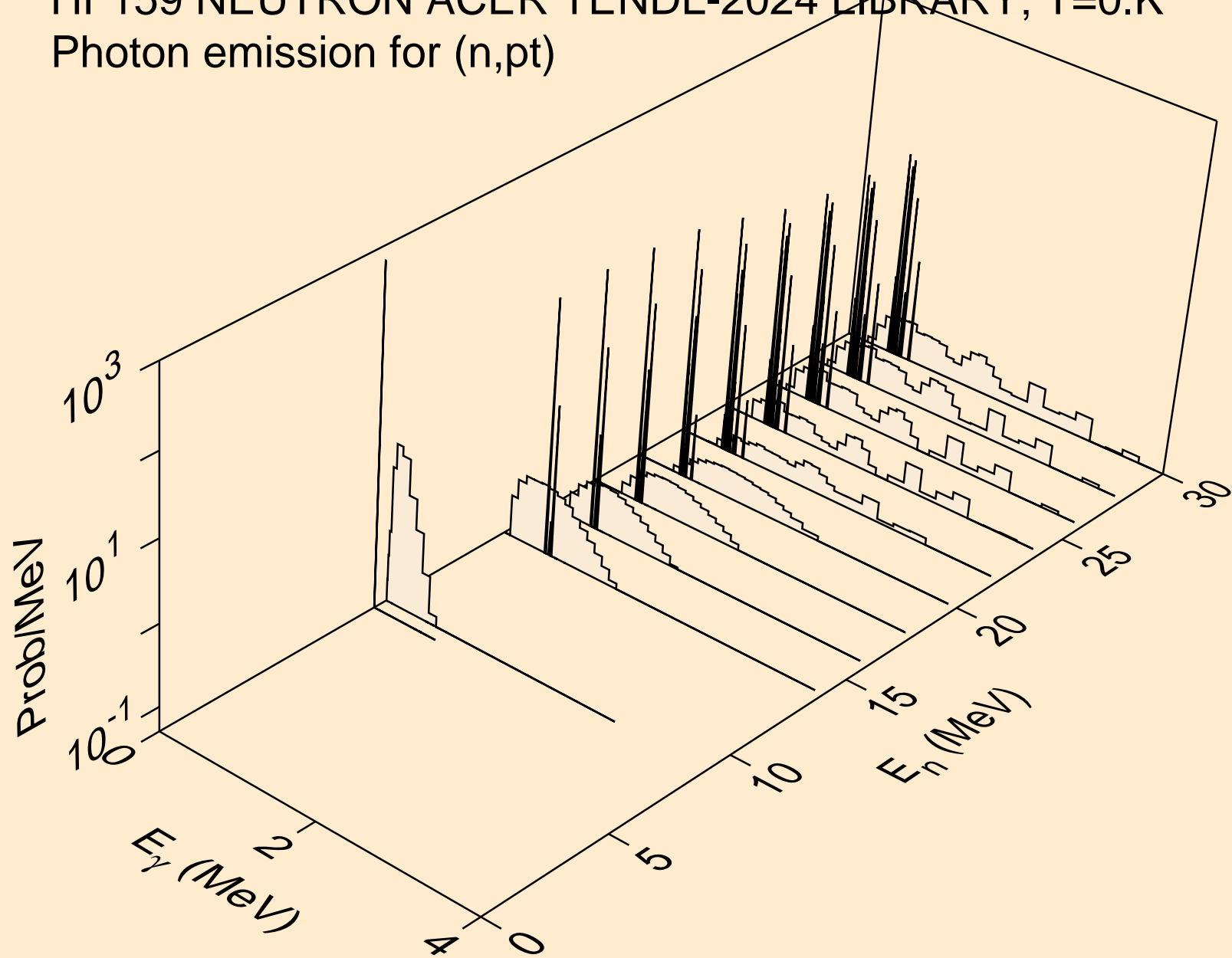
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Photon emission for (n,d2a)



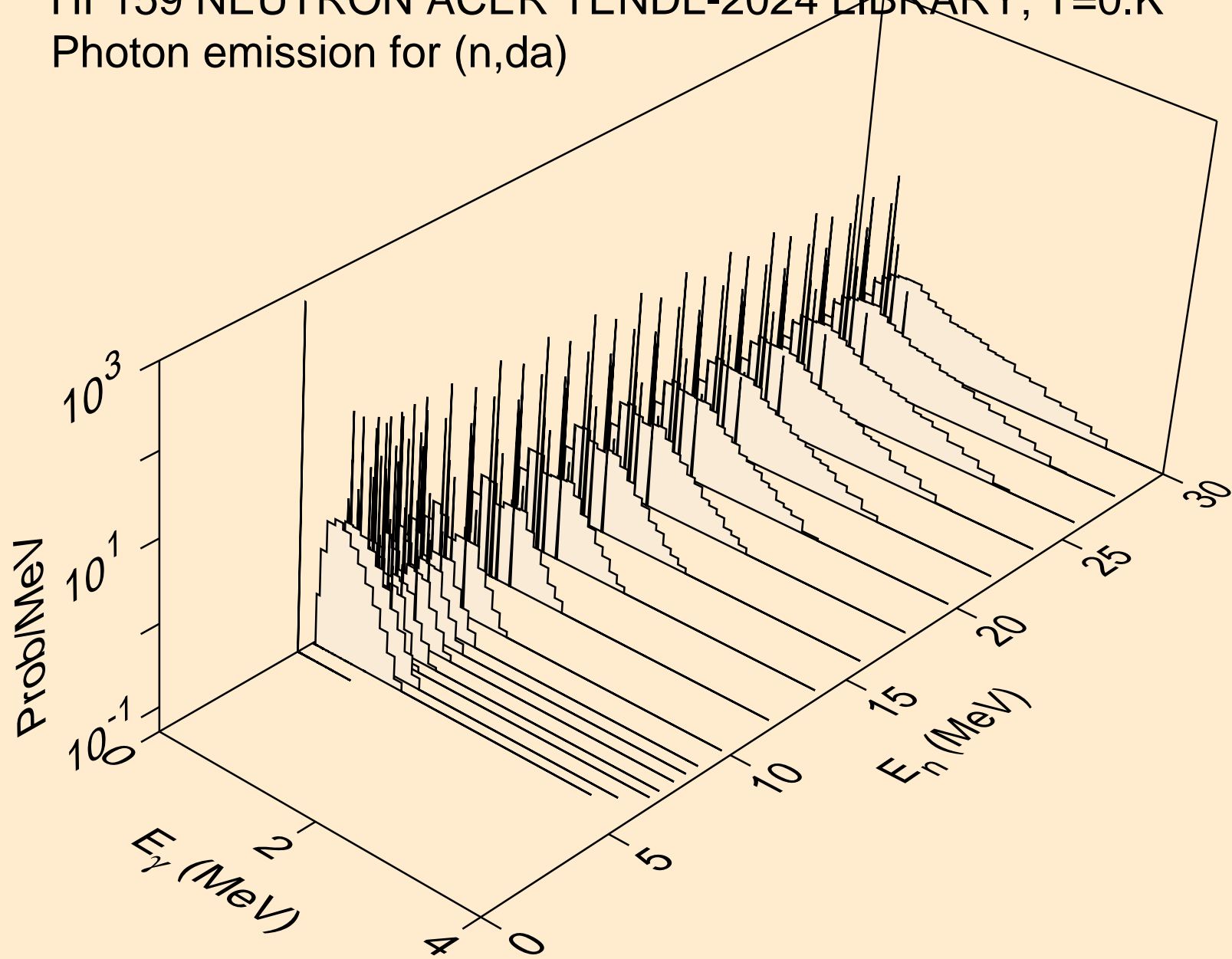
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Photon emission for (n,pd)



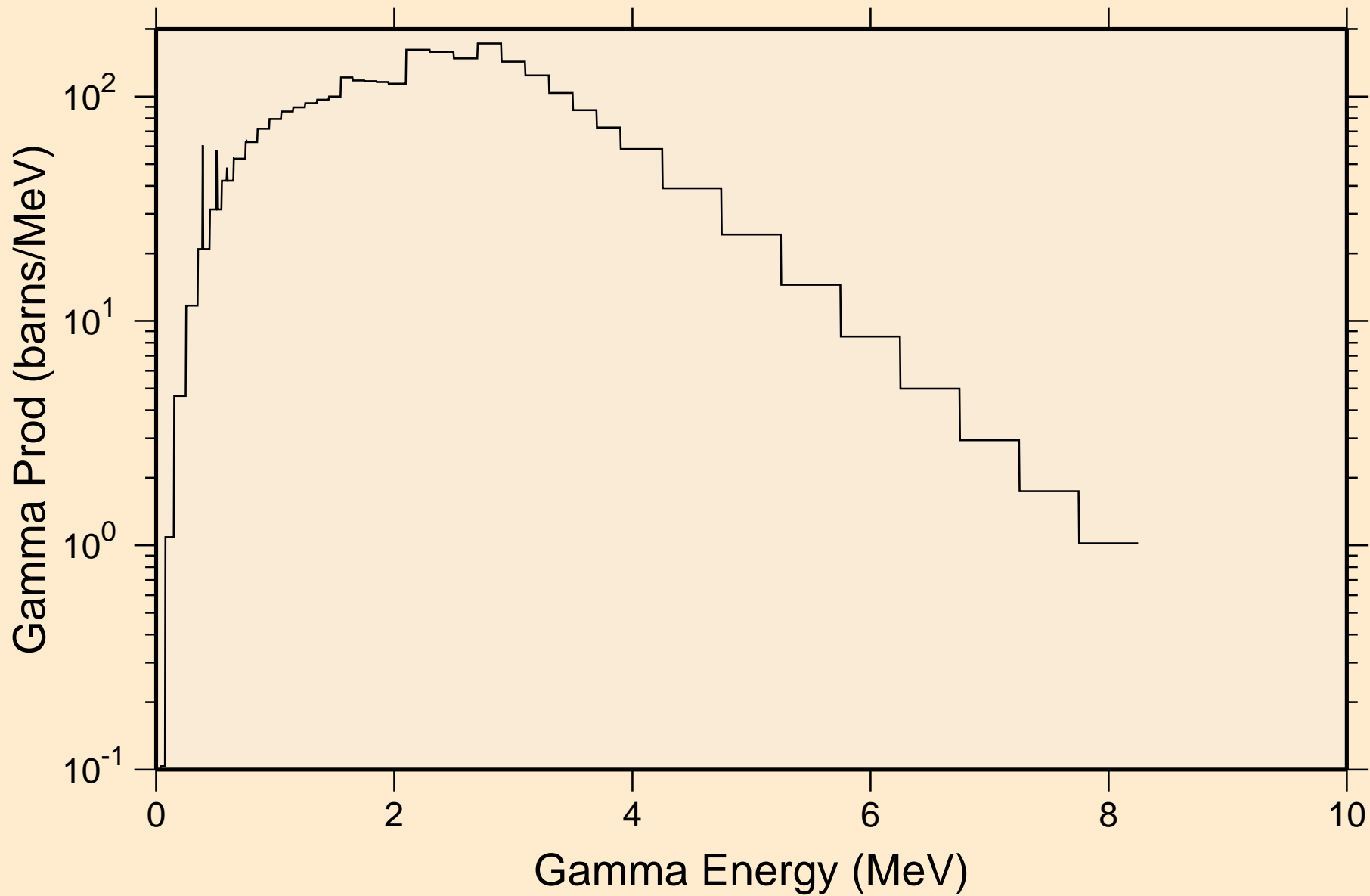
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Photon emission for (n,pt)



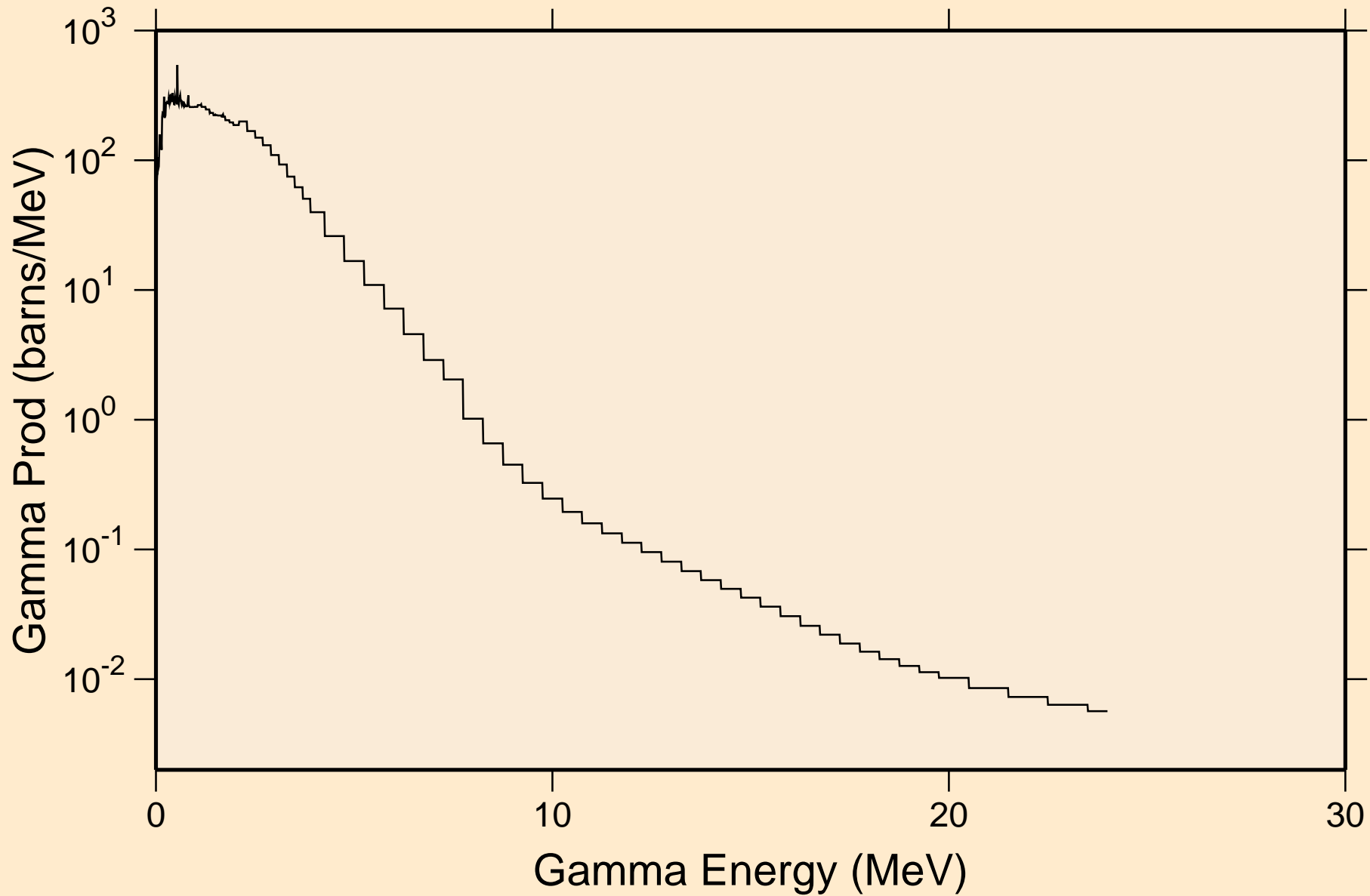
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

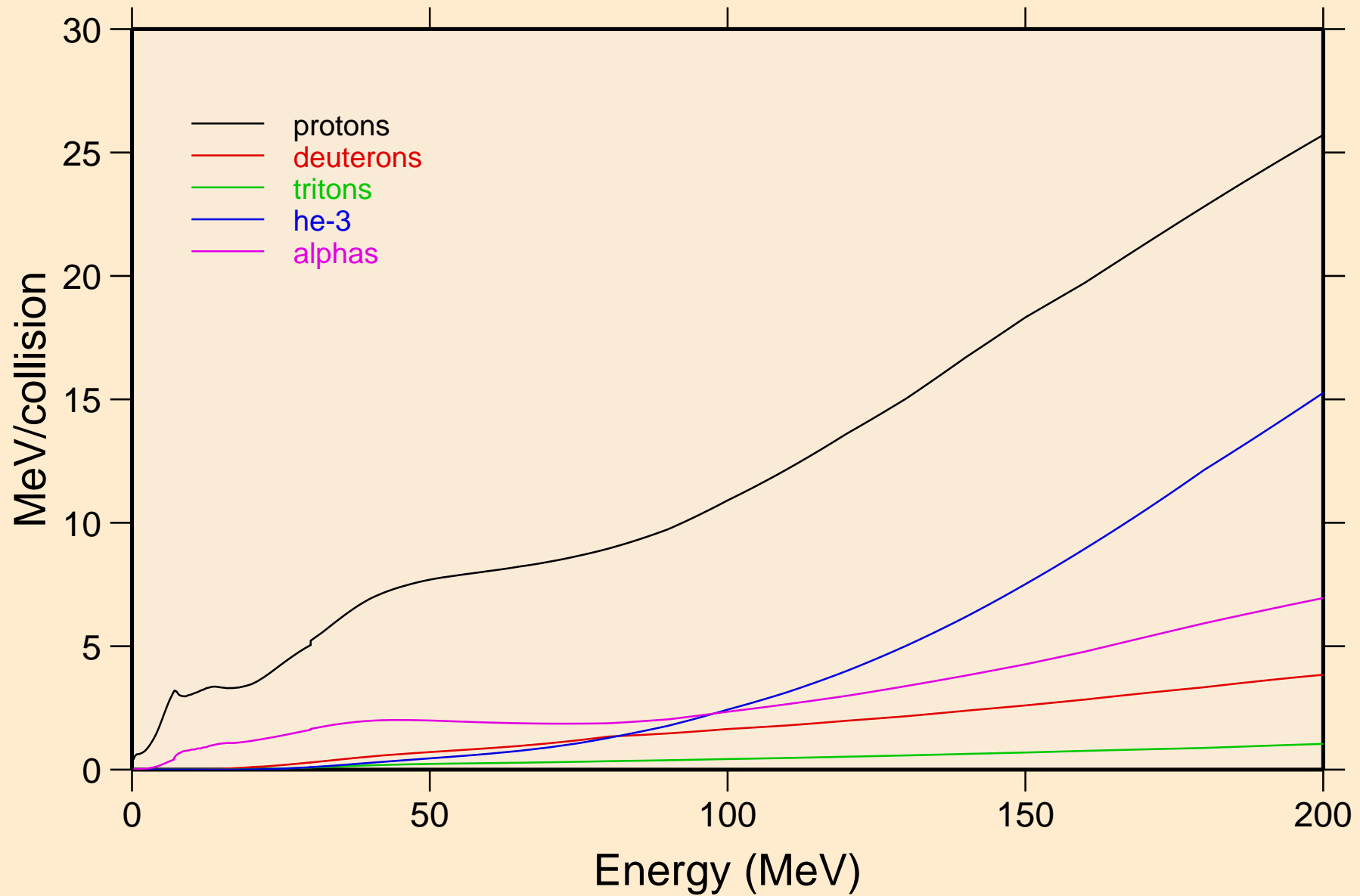


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

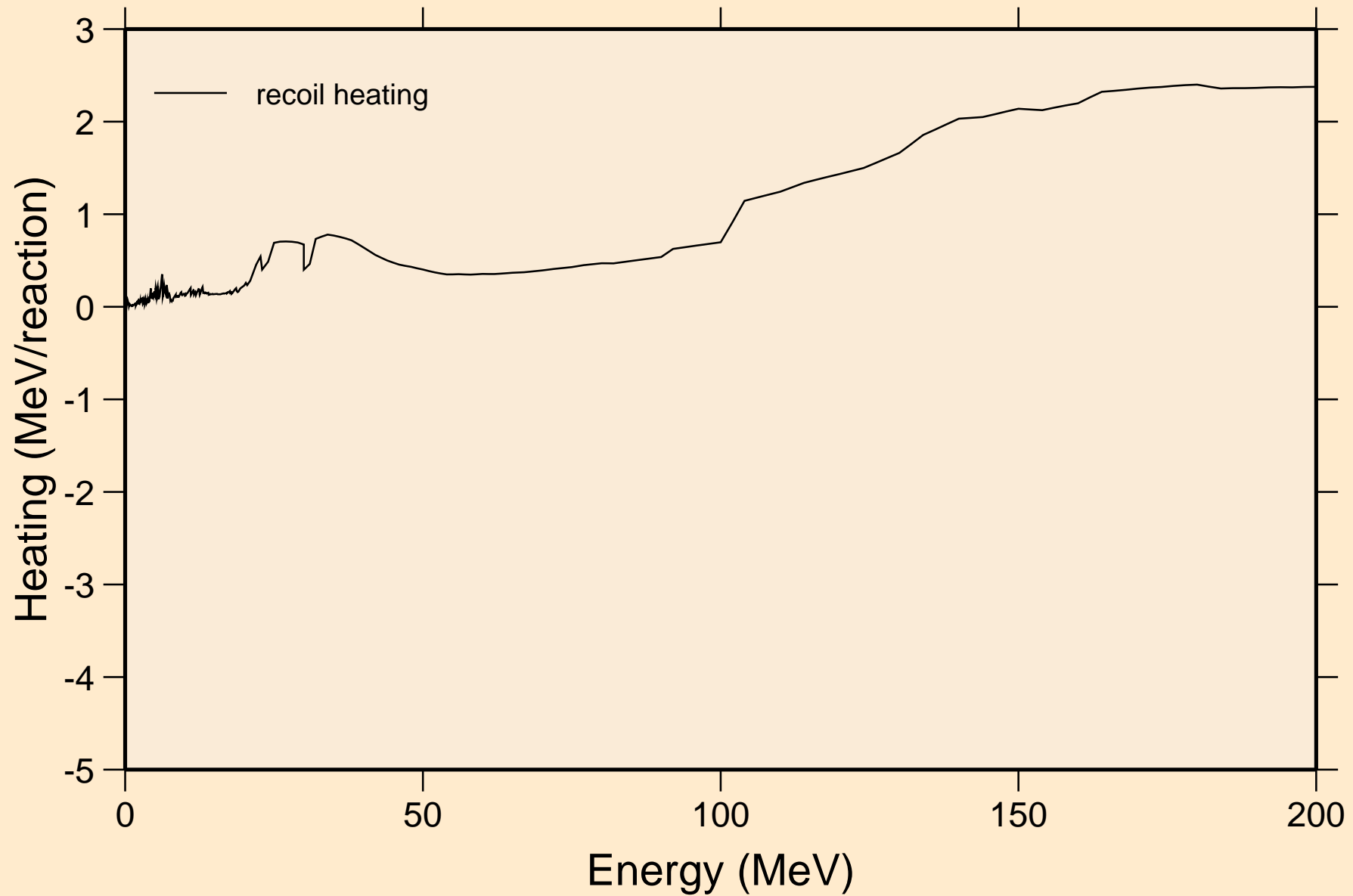


# HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions



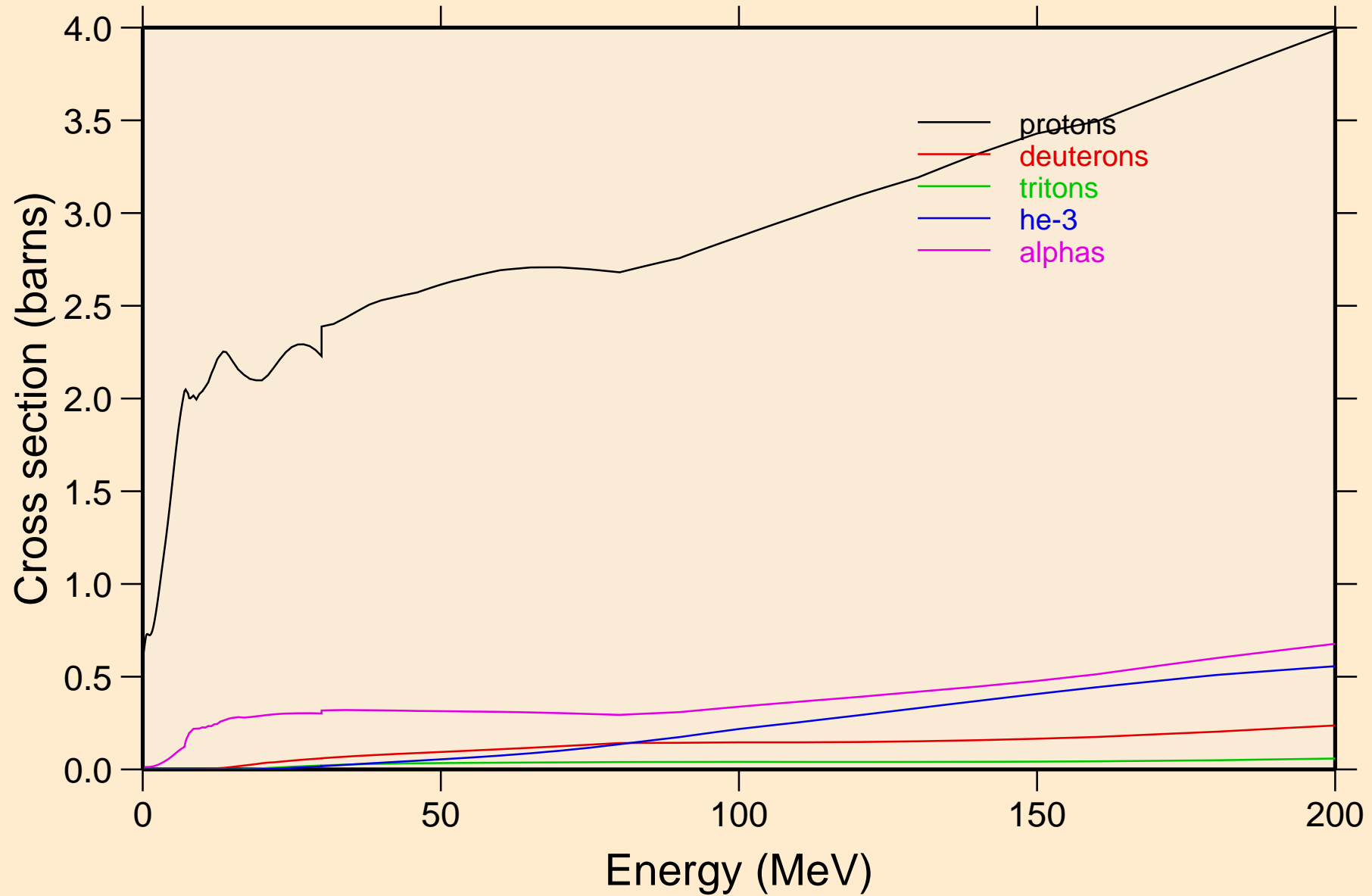
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Recoil Heating



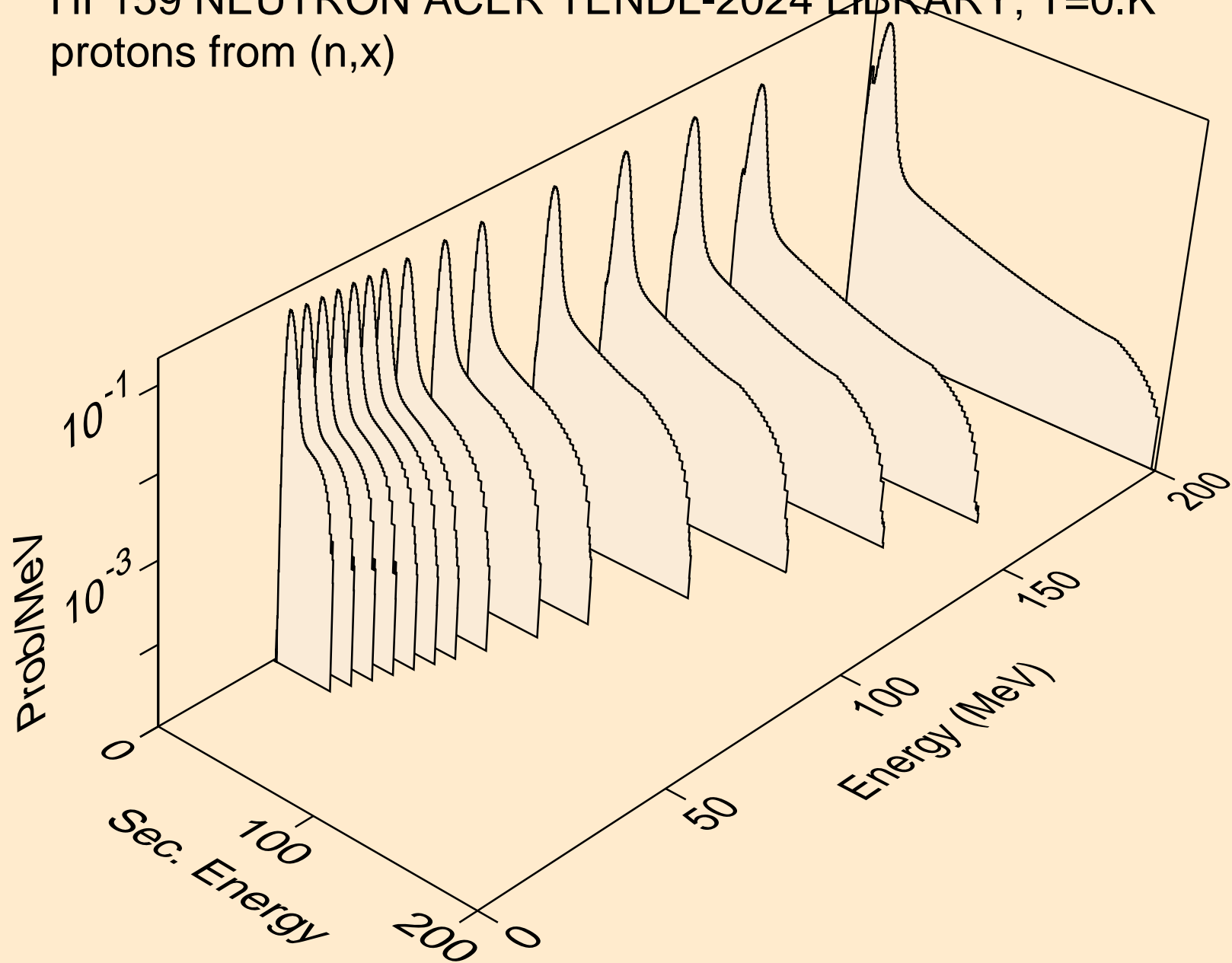


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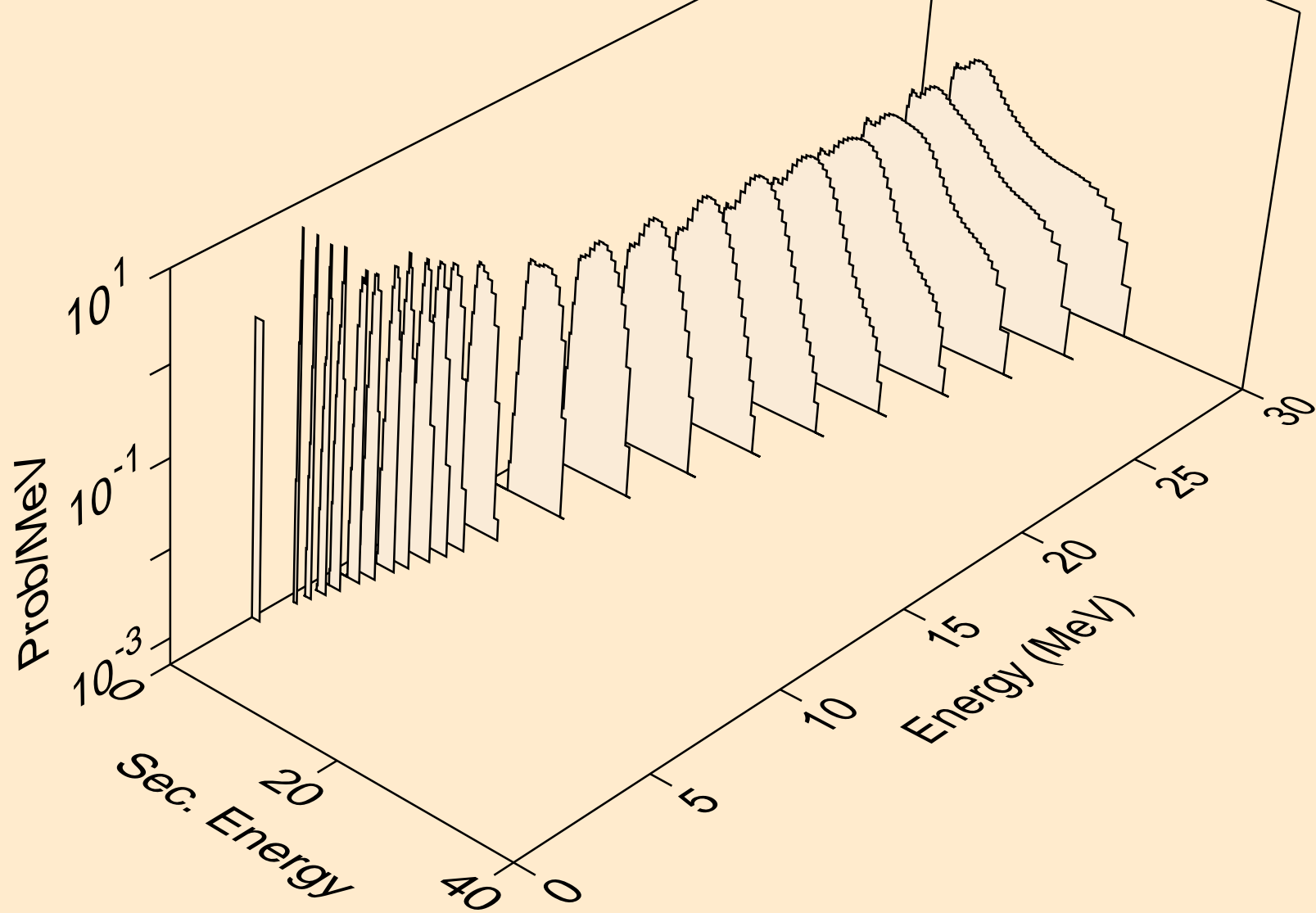
## Particle production cross sections



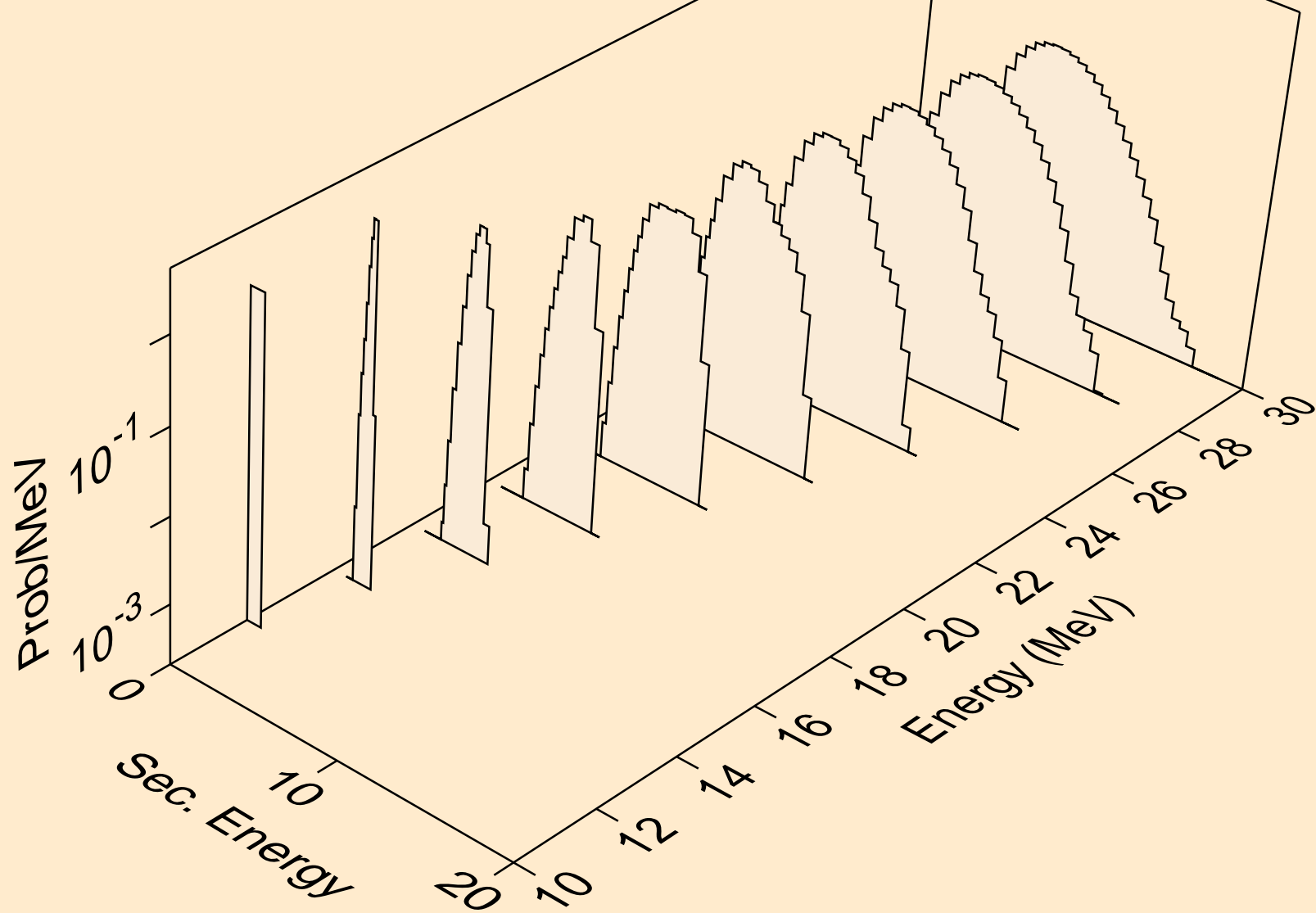
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



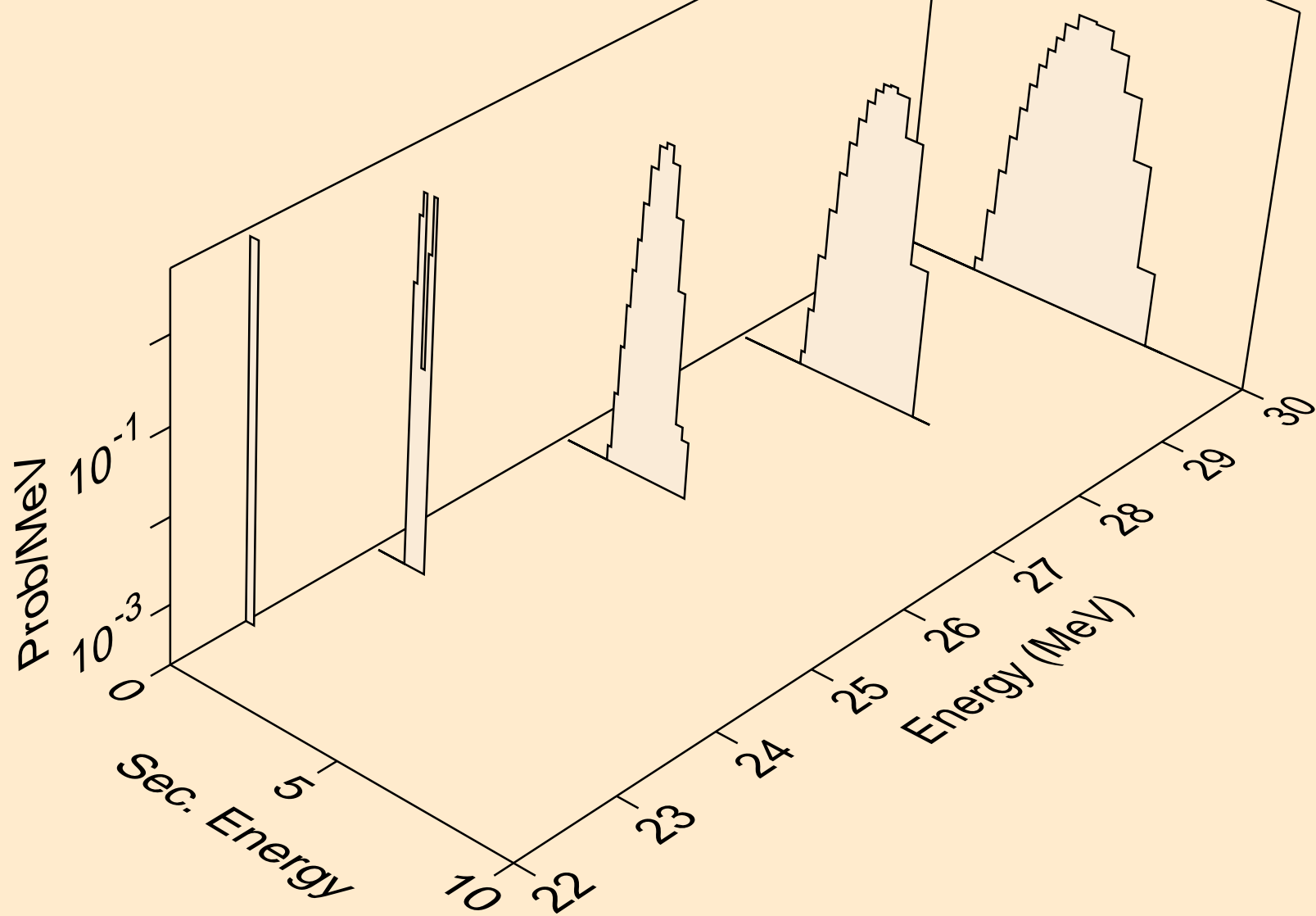
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p



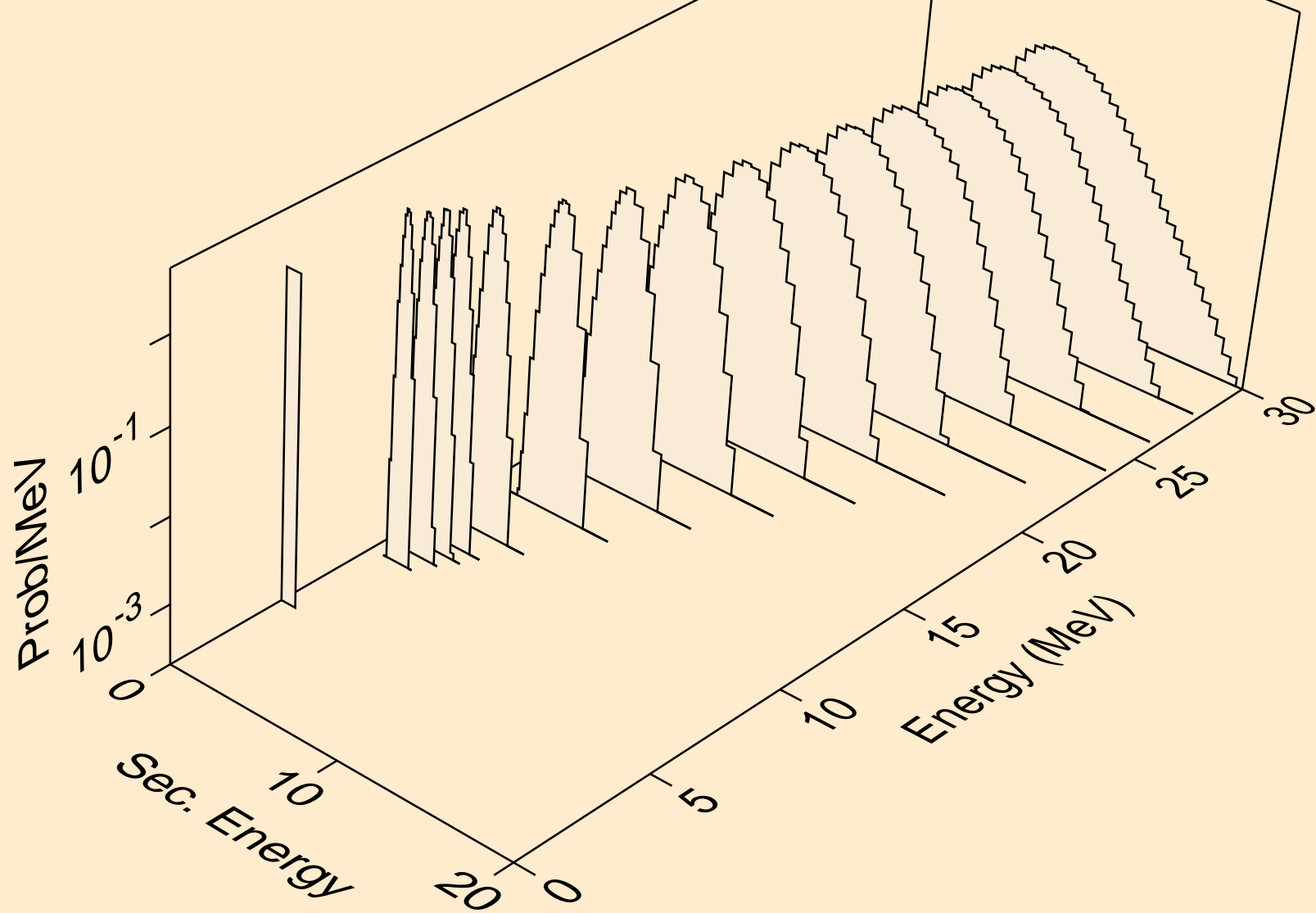
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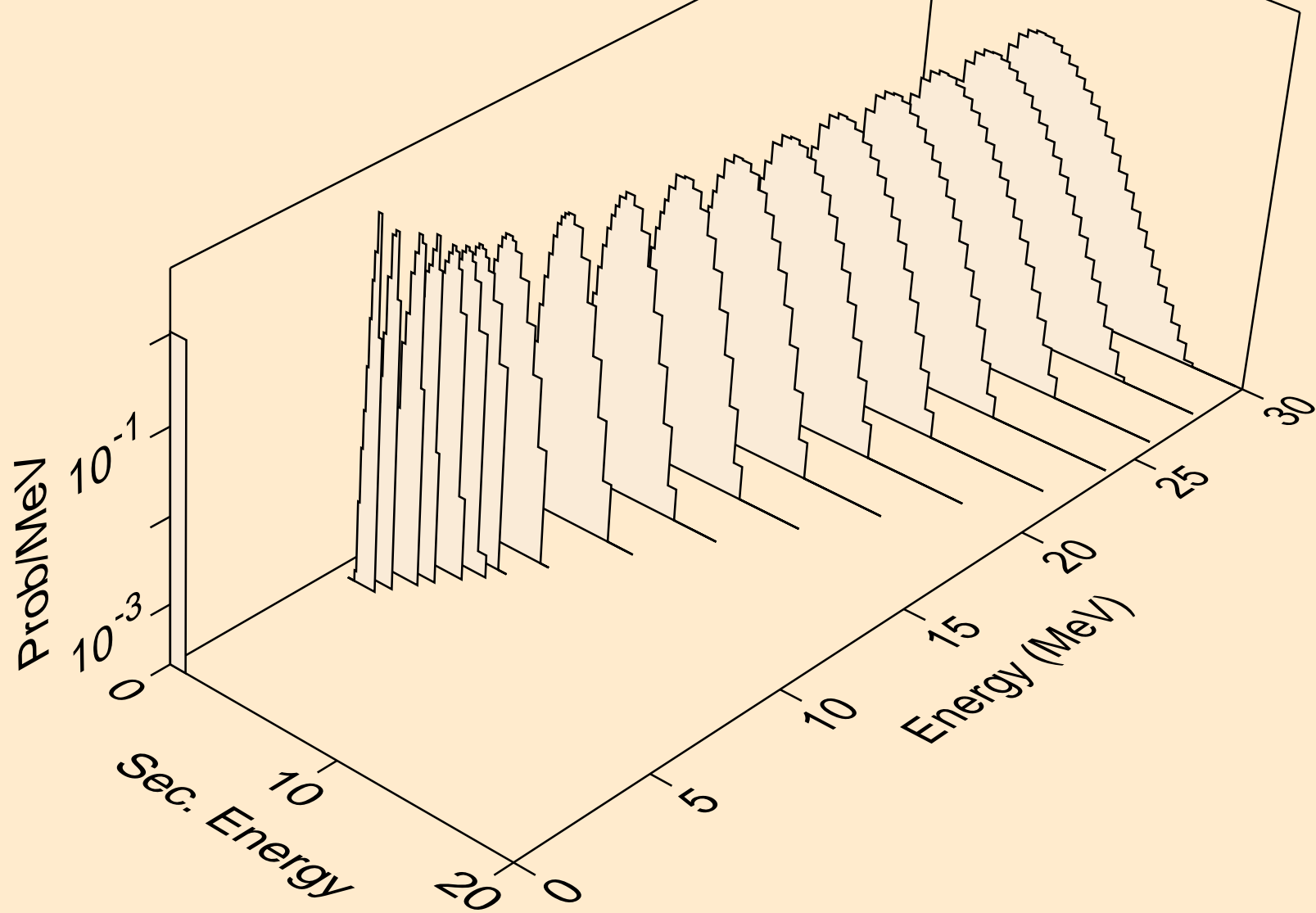
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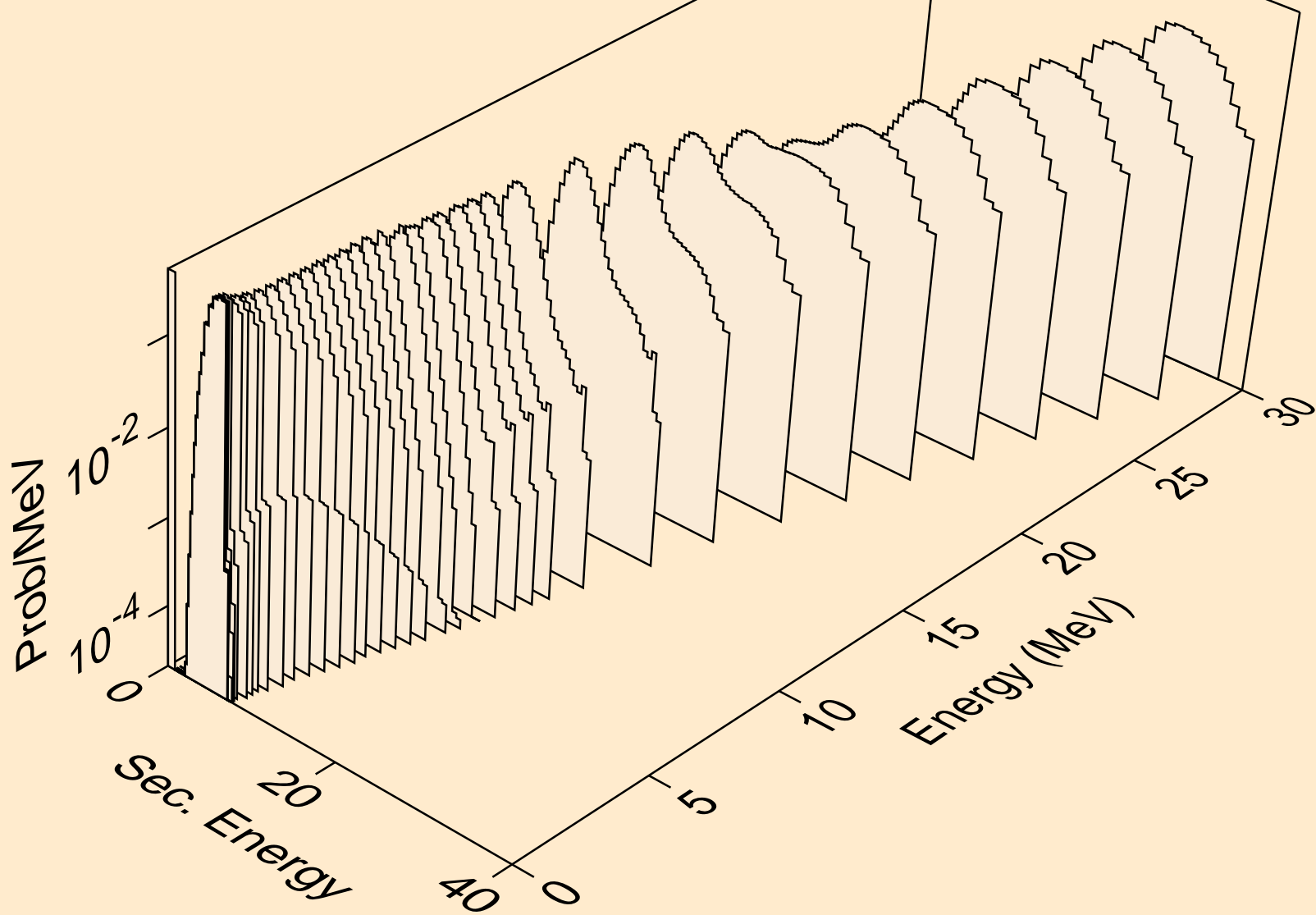
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protons from (n,n2p)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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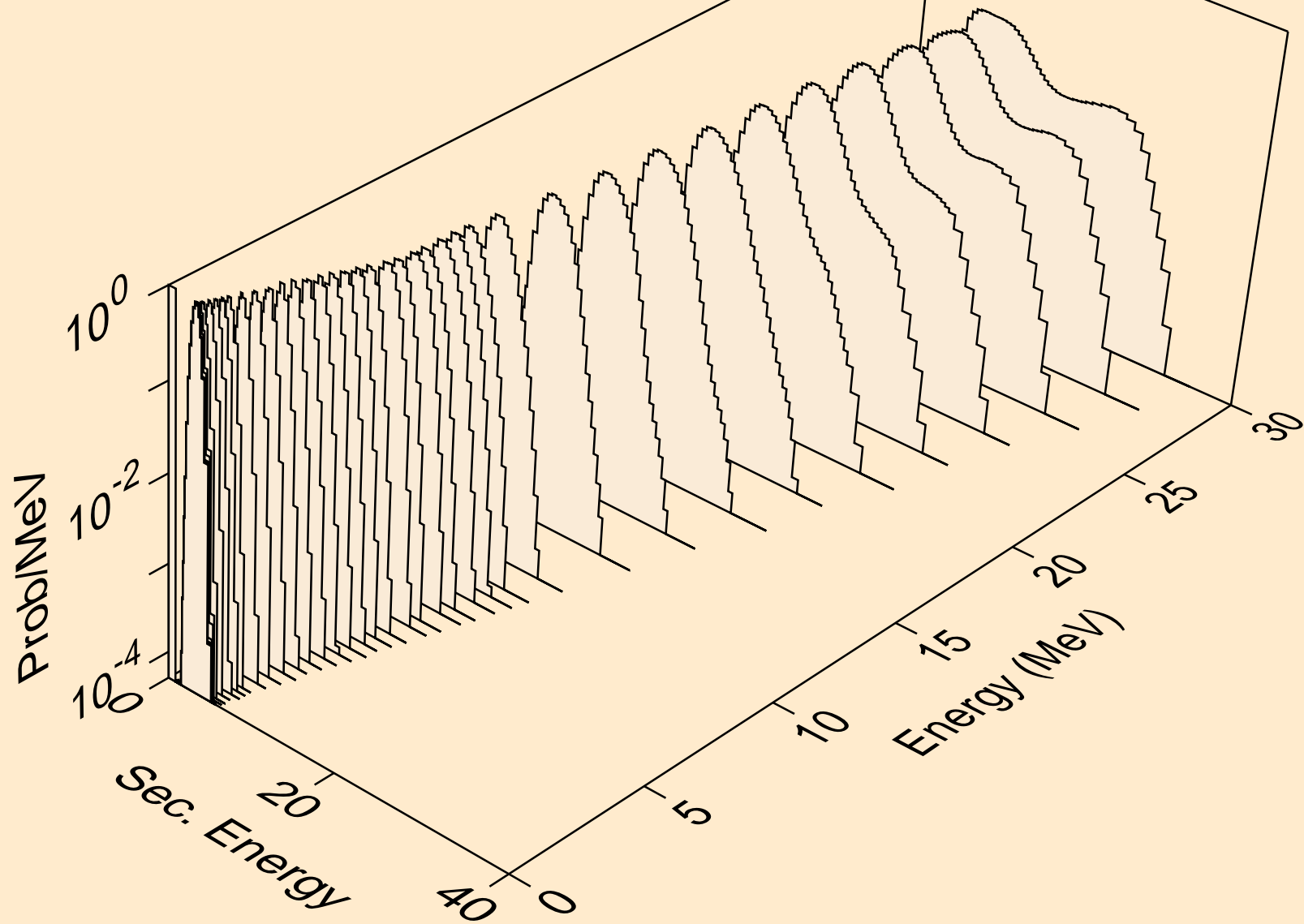


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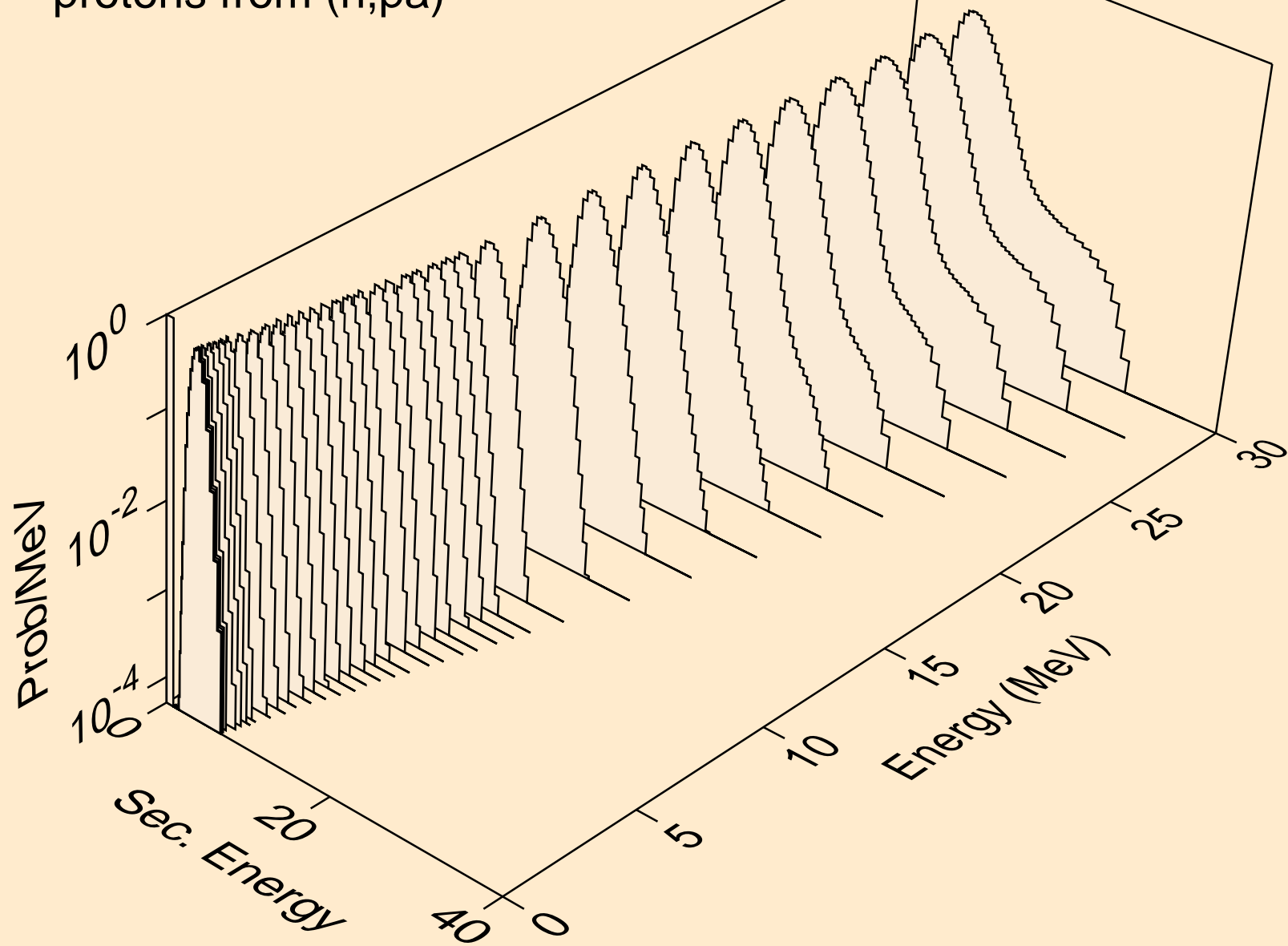




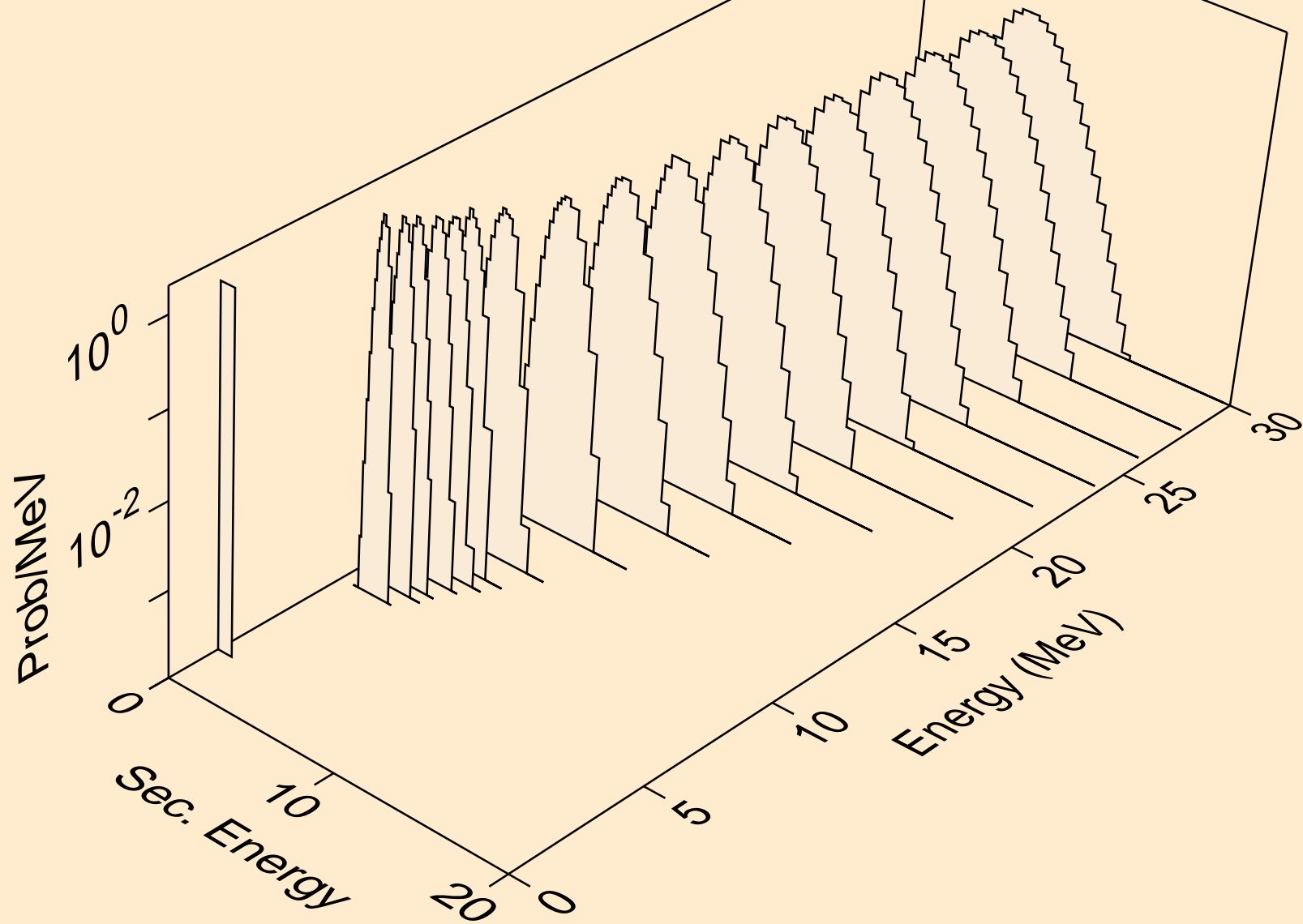
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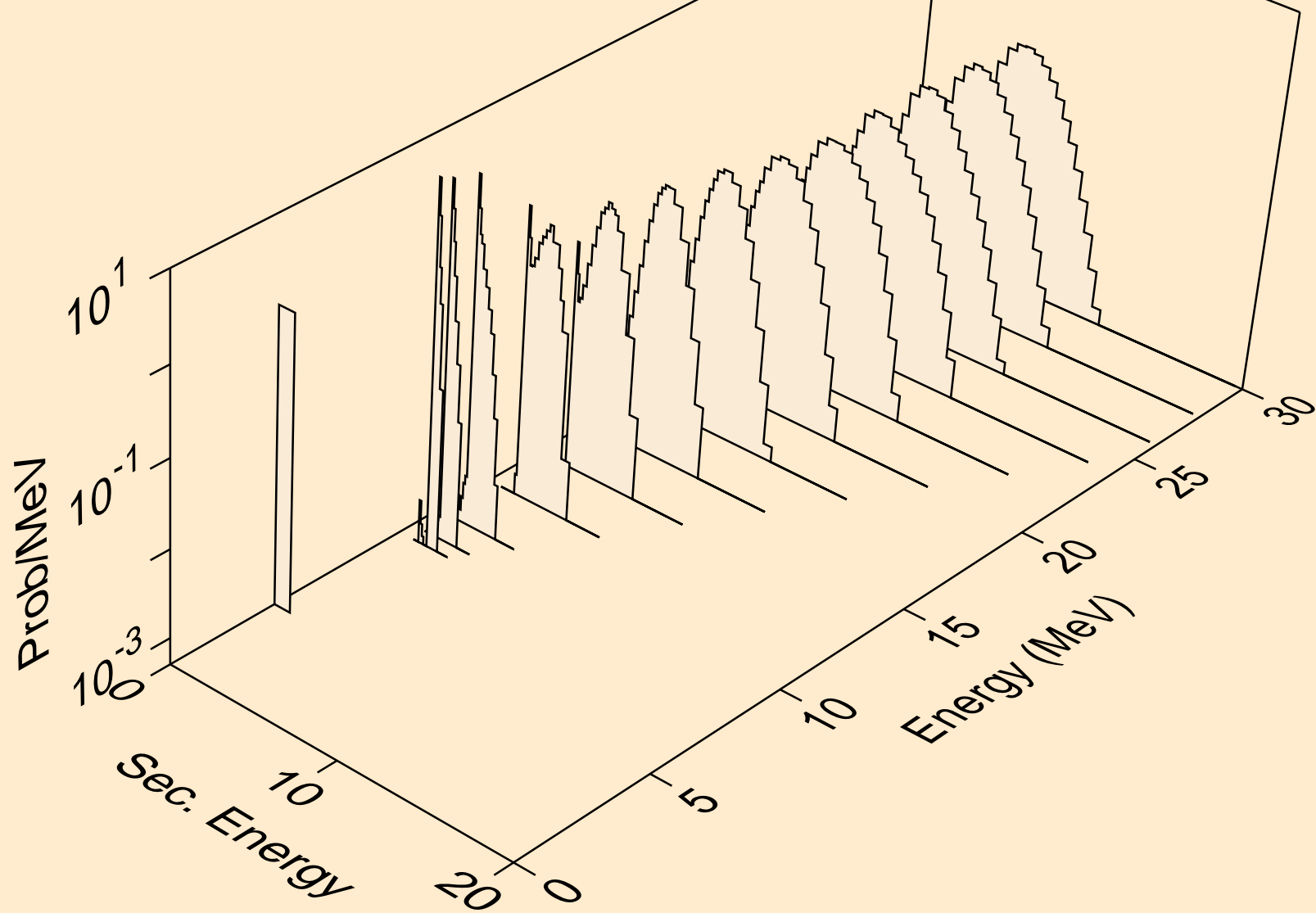
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protons from (n,p)



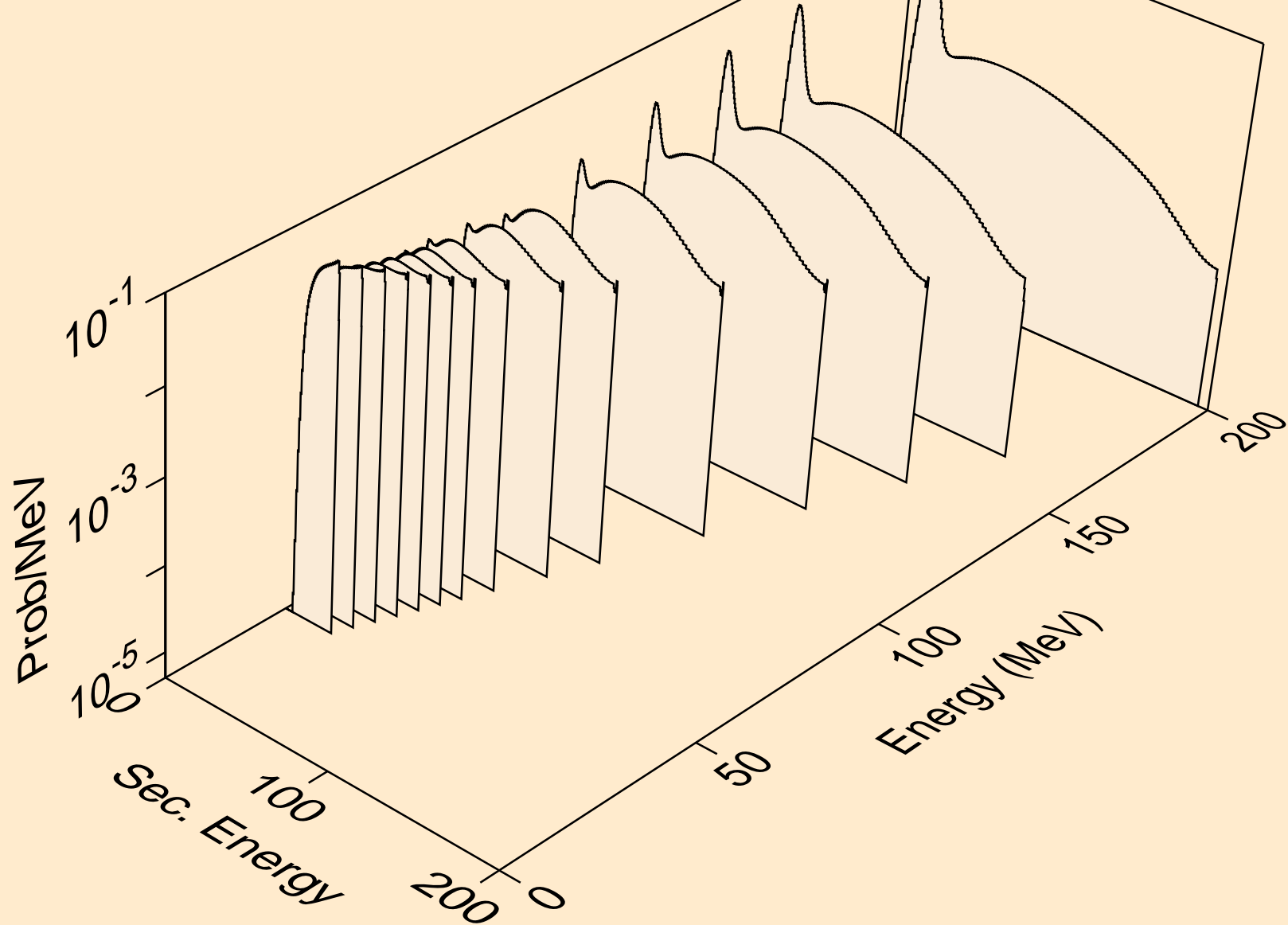
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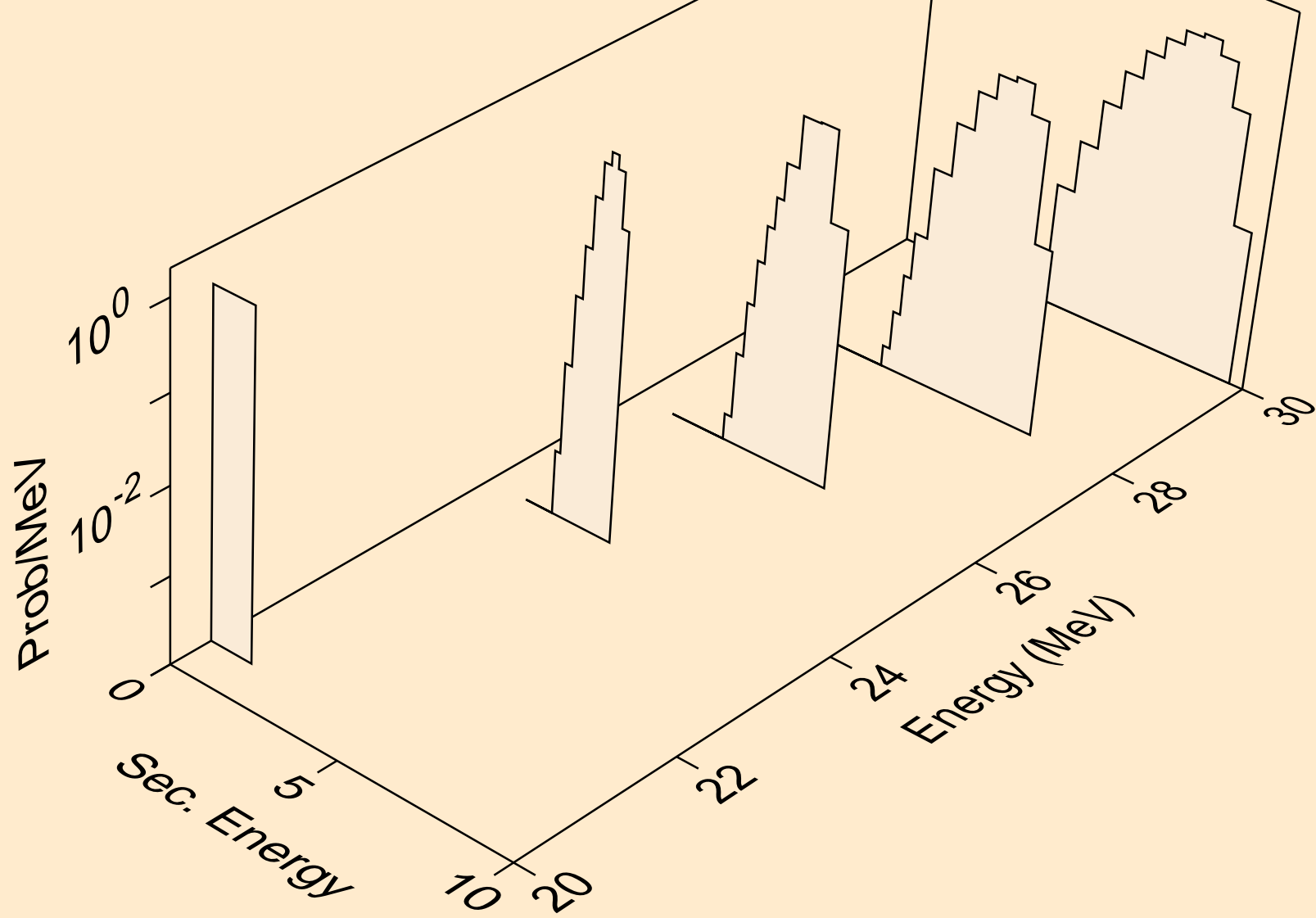
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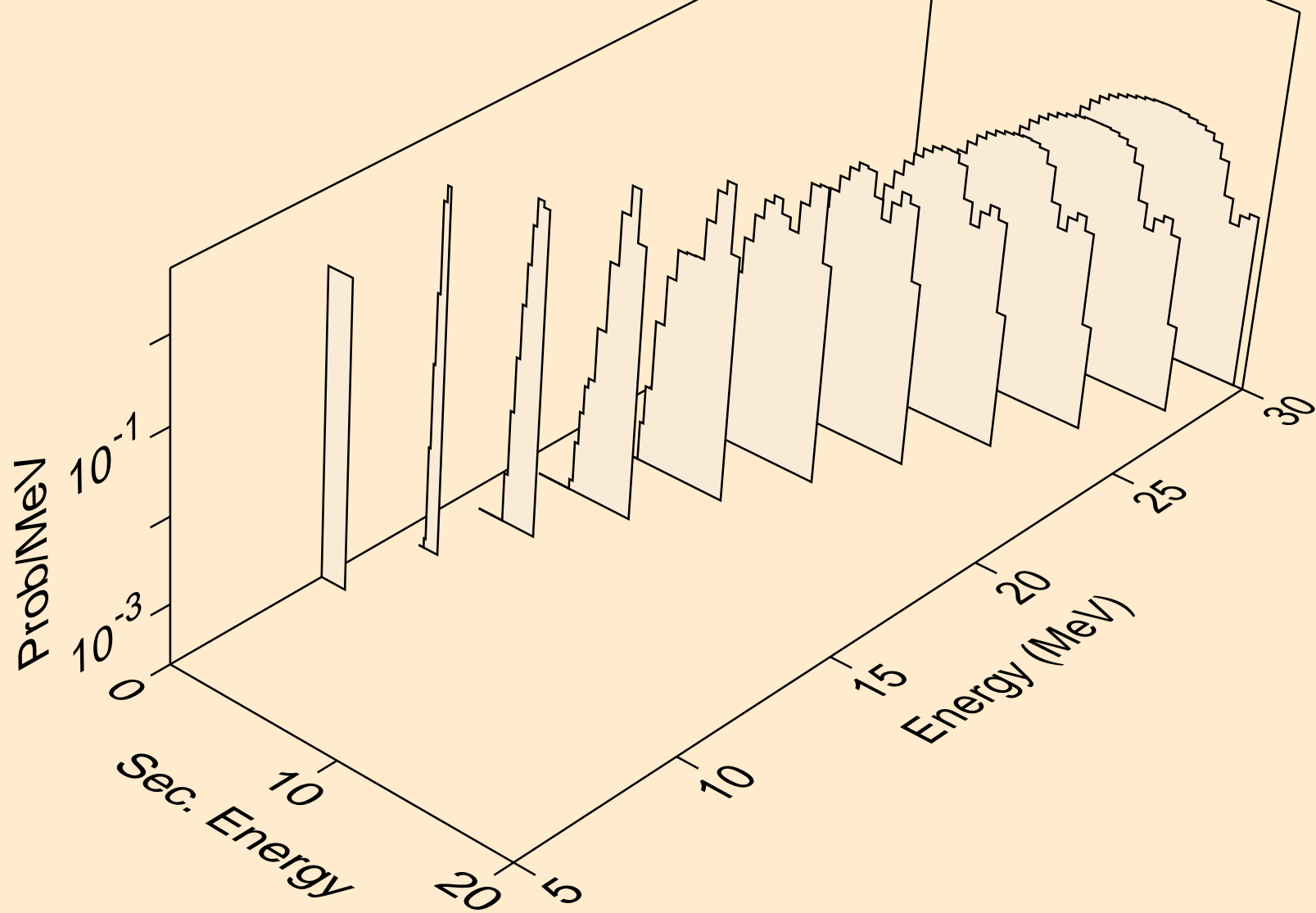
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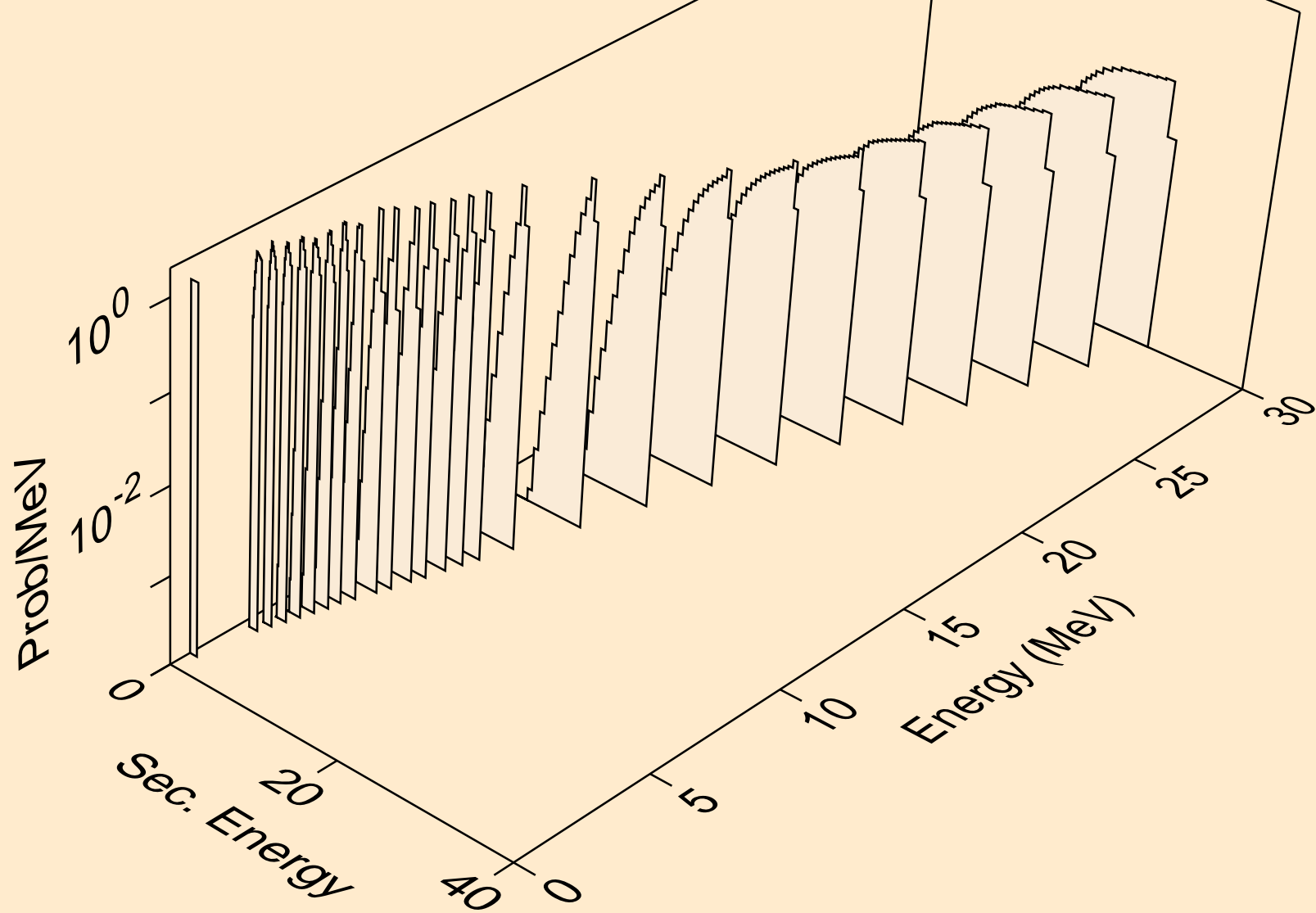
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deuterons from (n,2nd)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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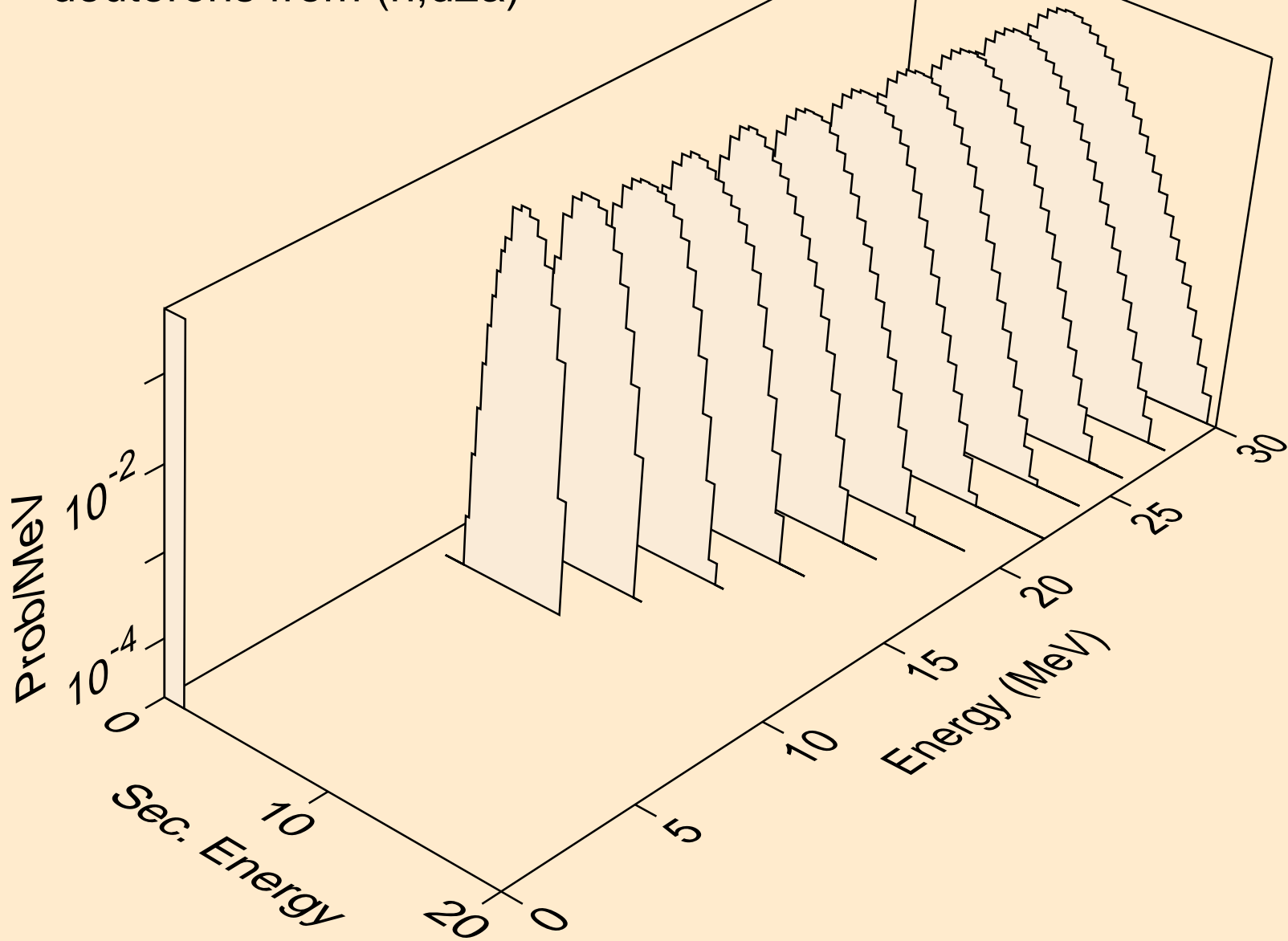


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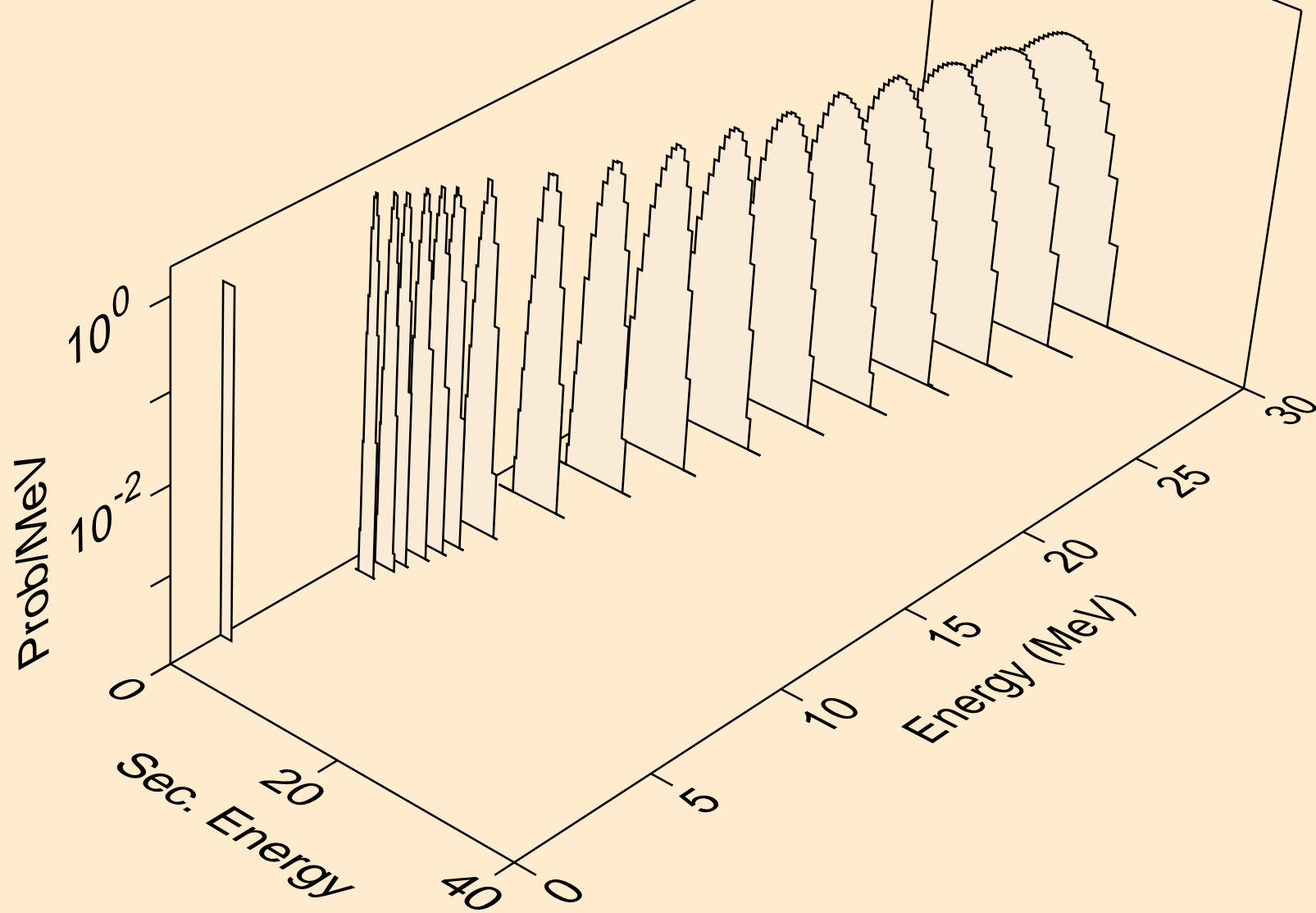




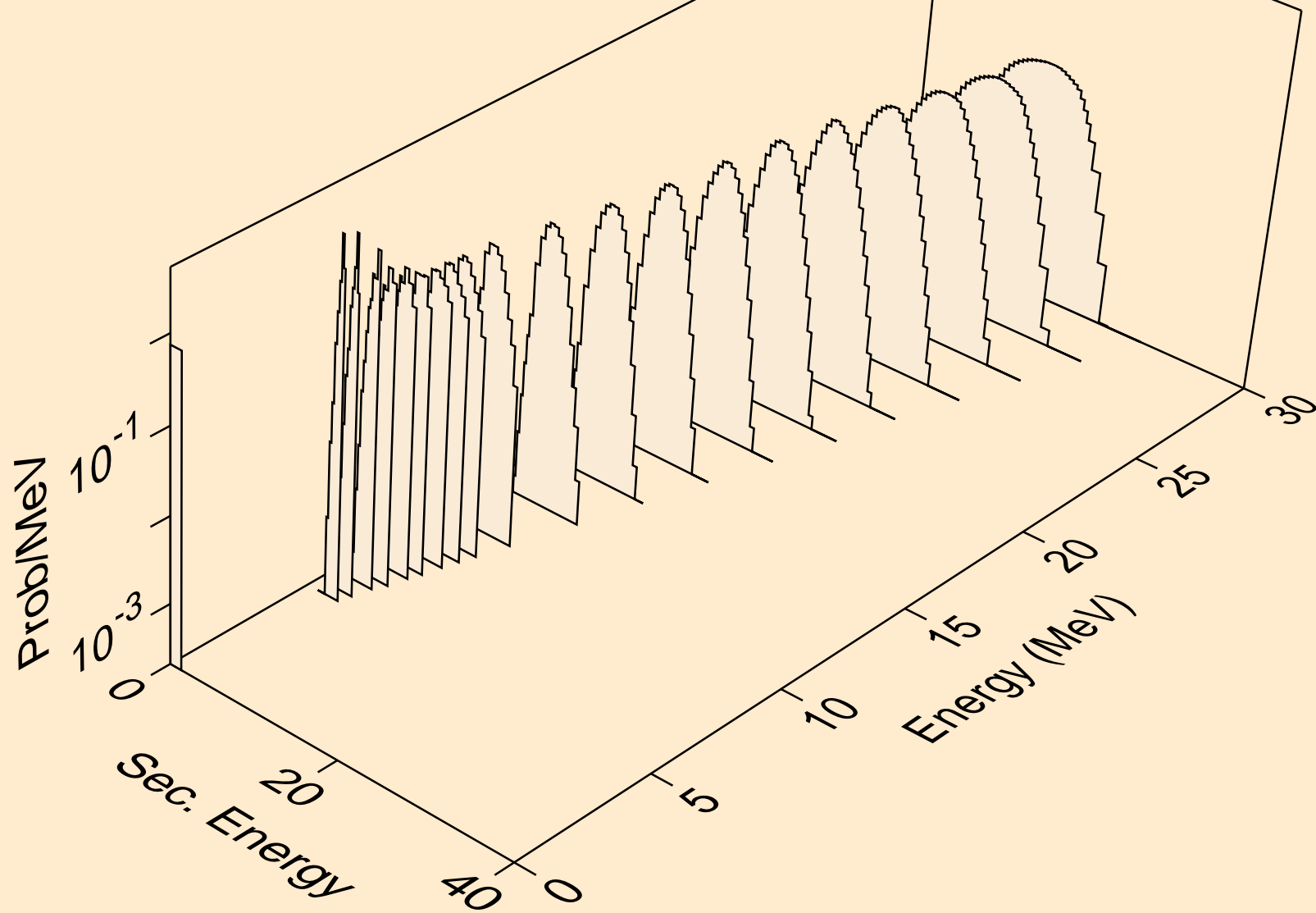
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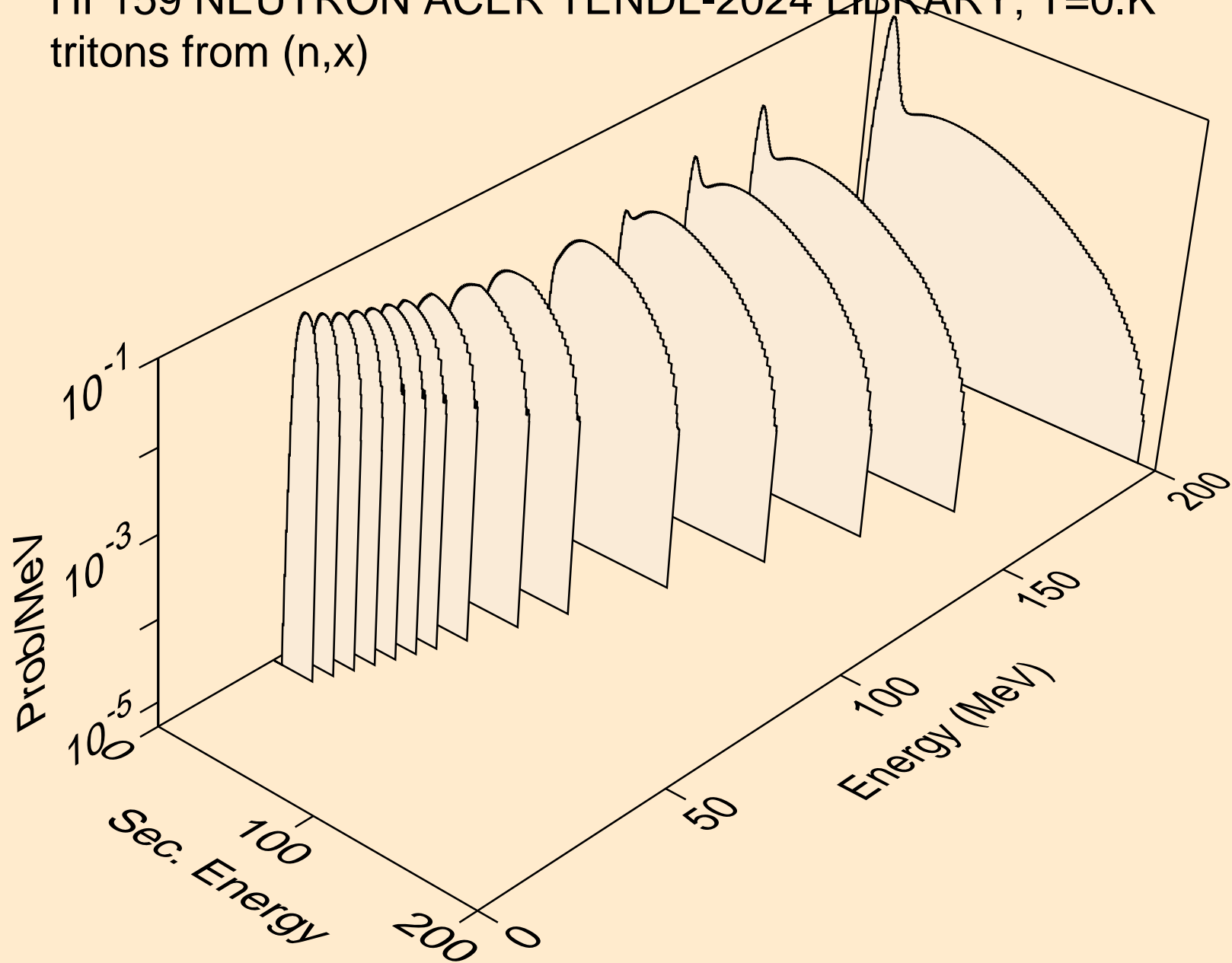
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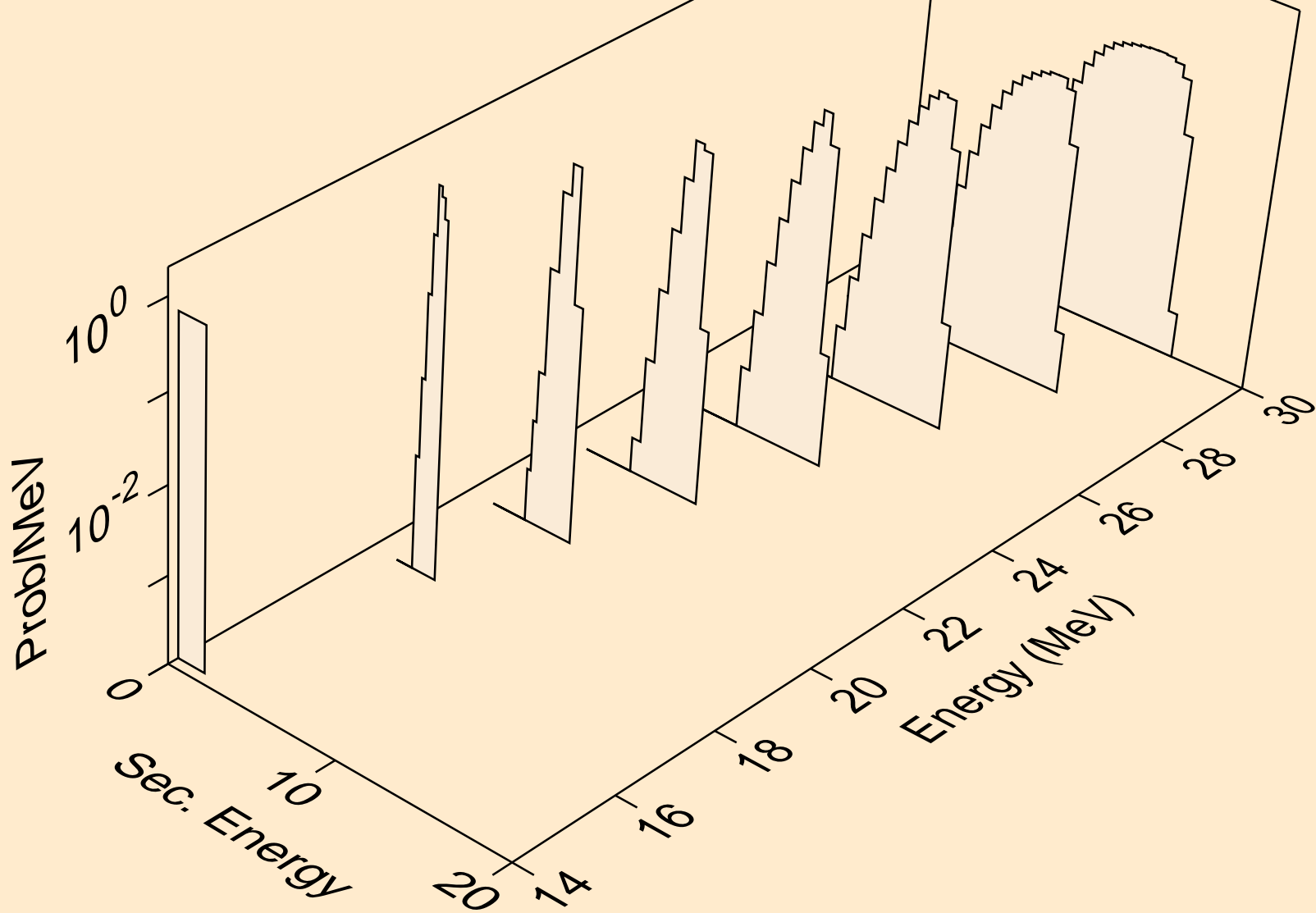
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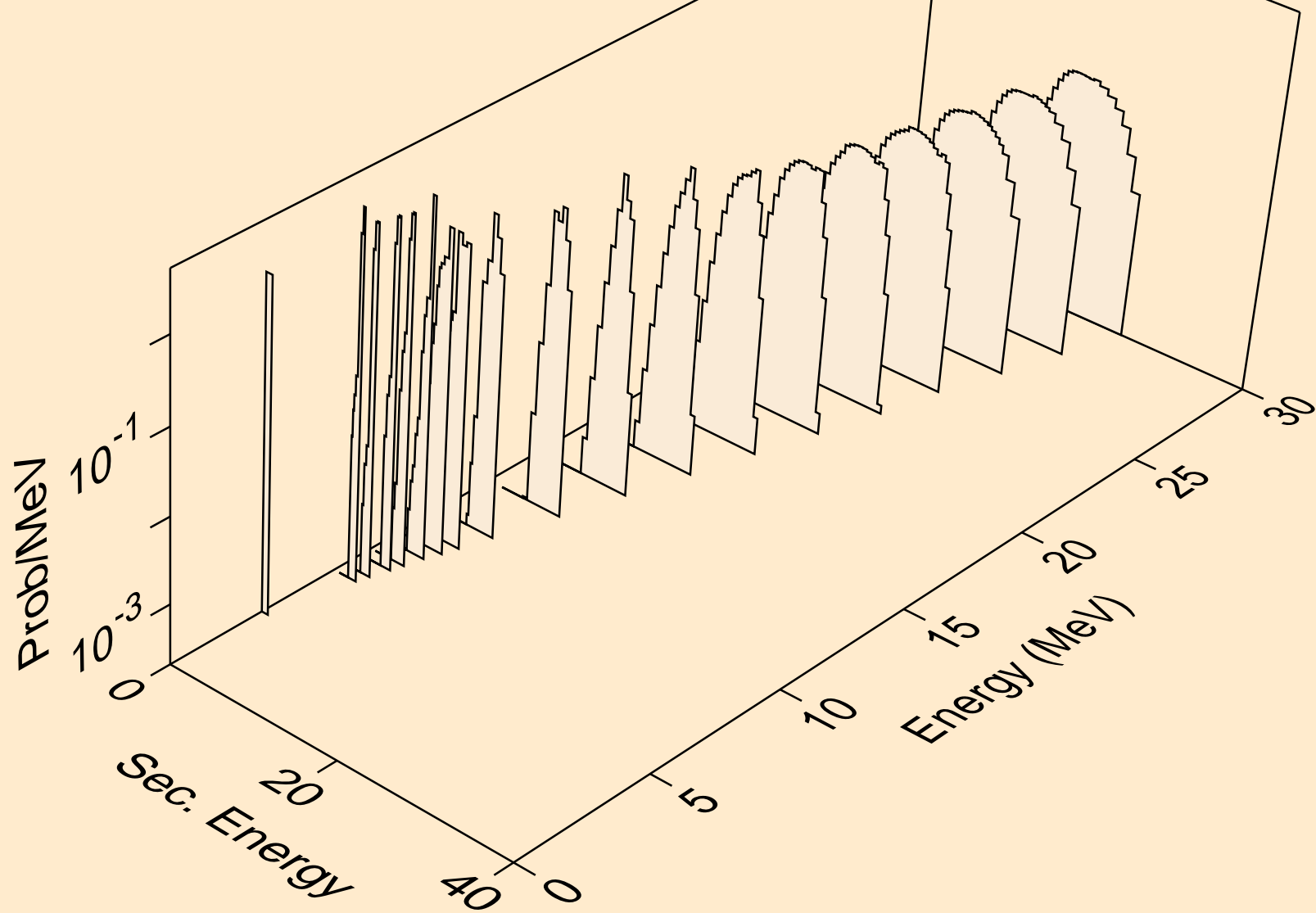
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tritons from (n,x)



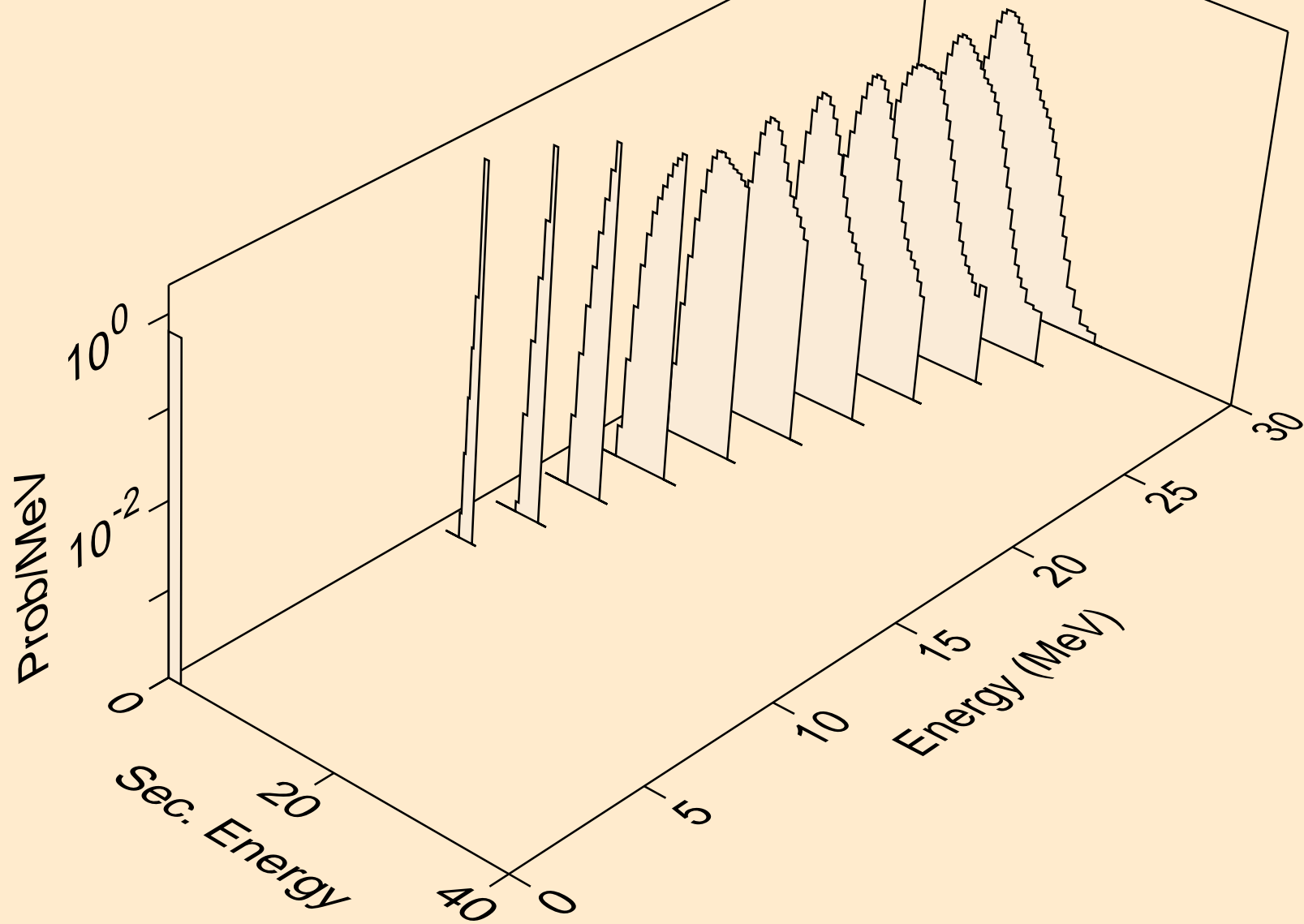
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tritons from (n,n\*)t



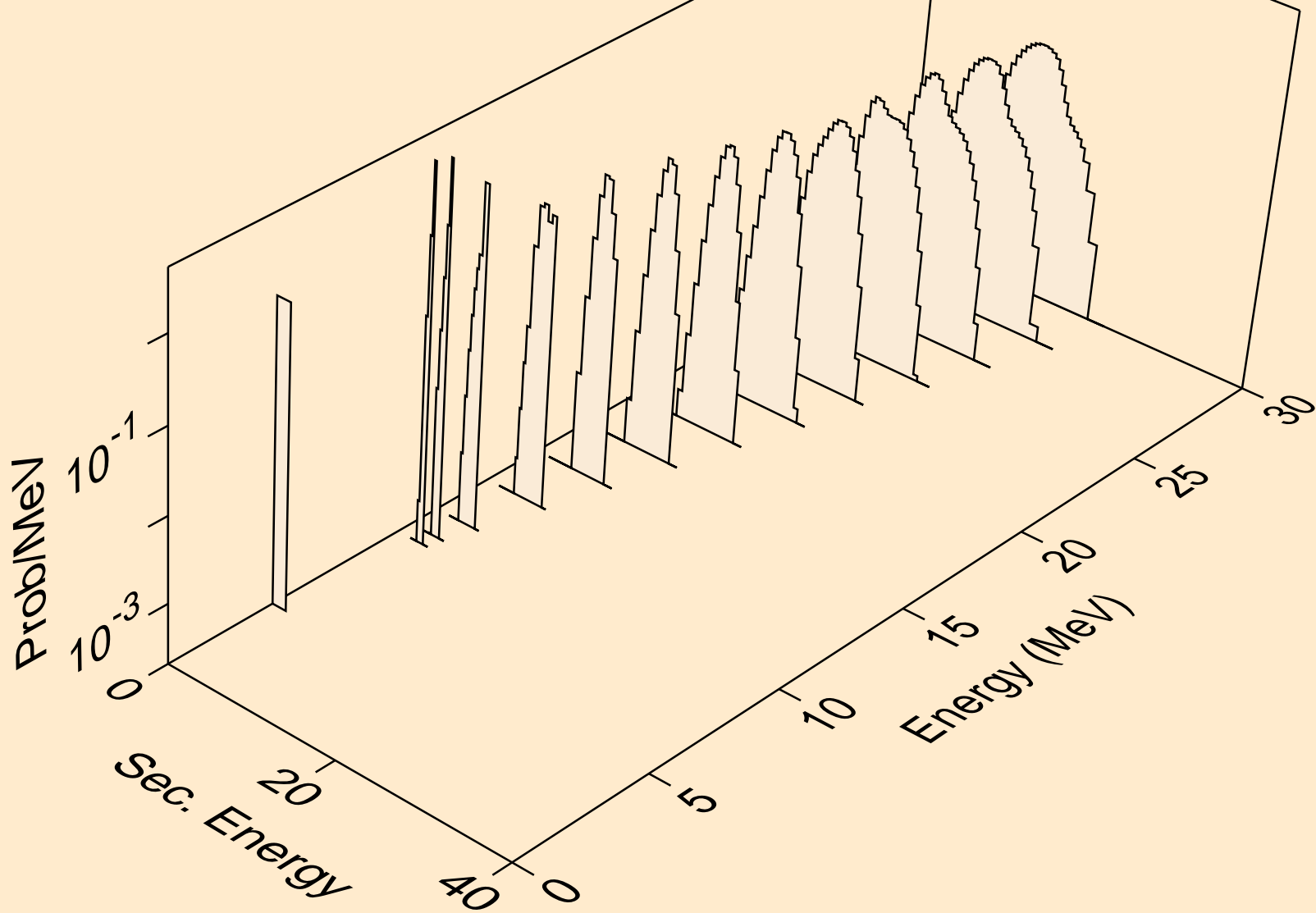
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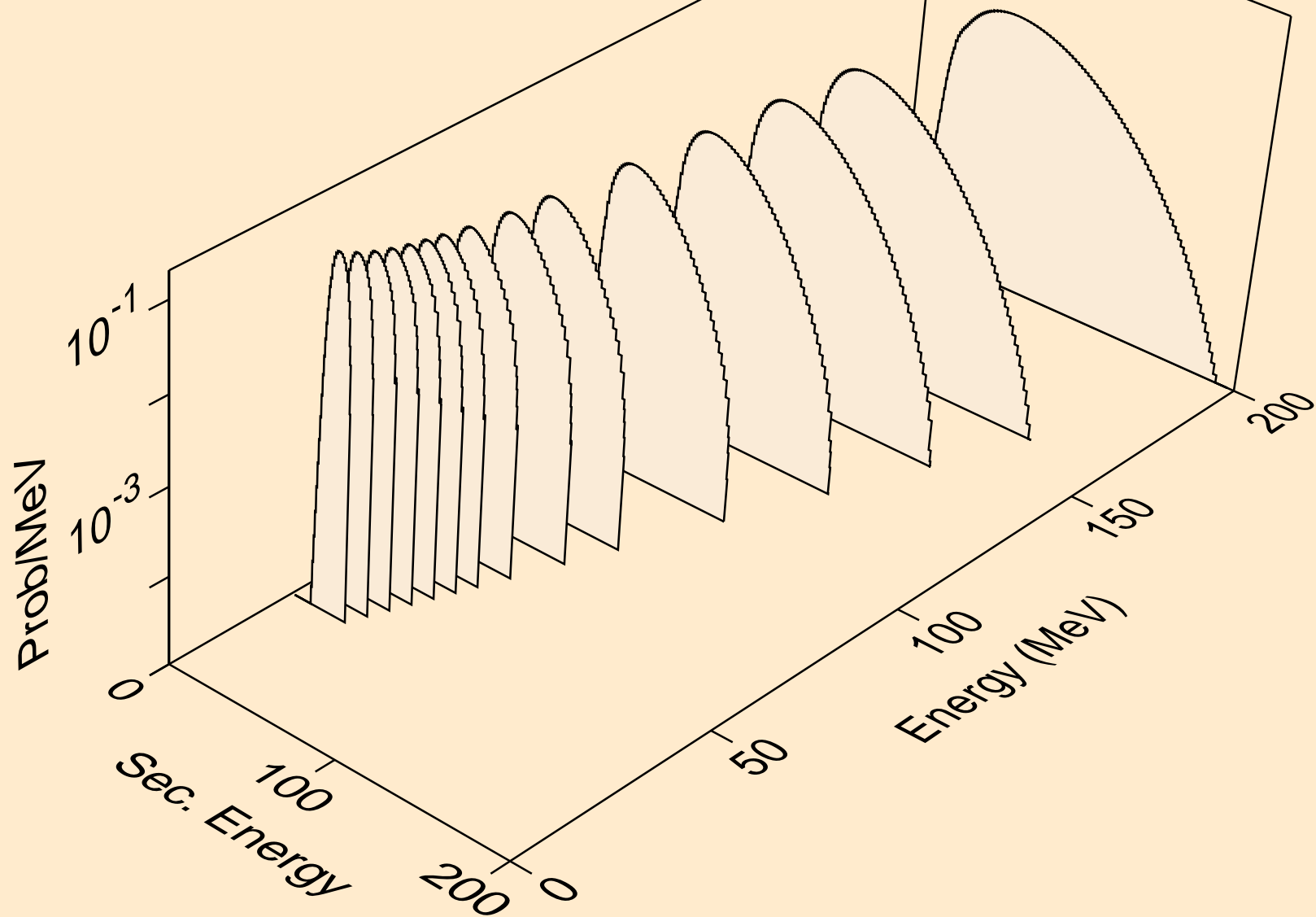


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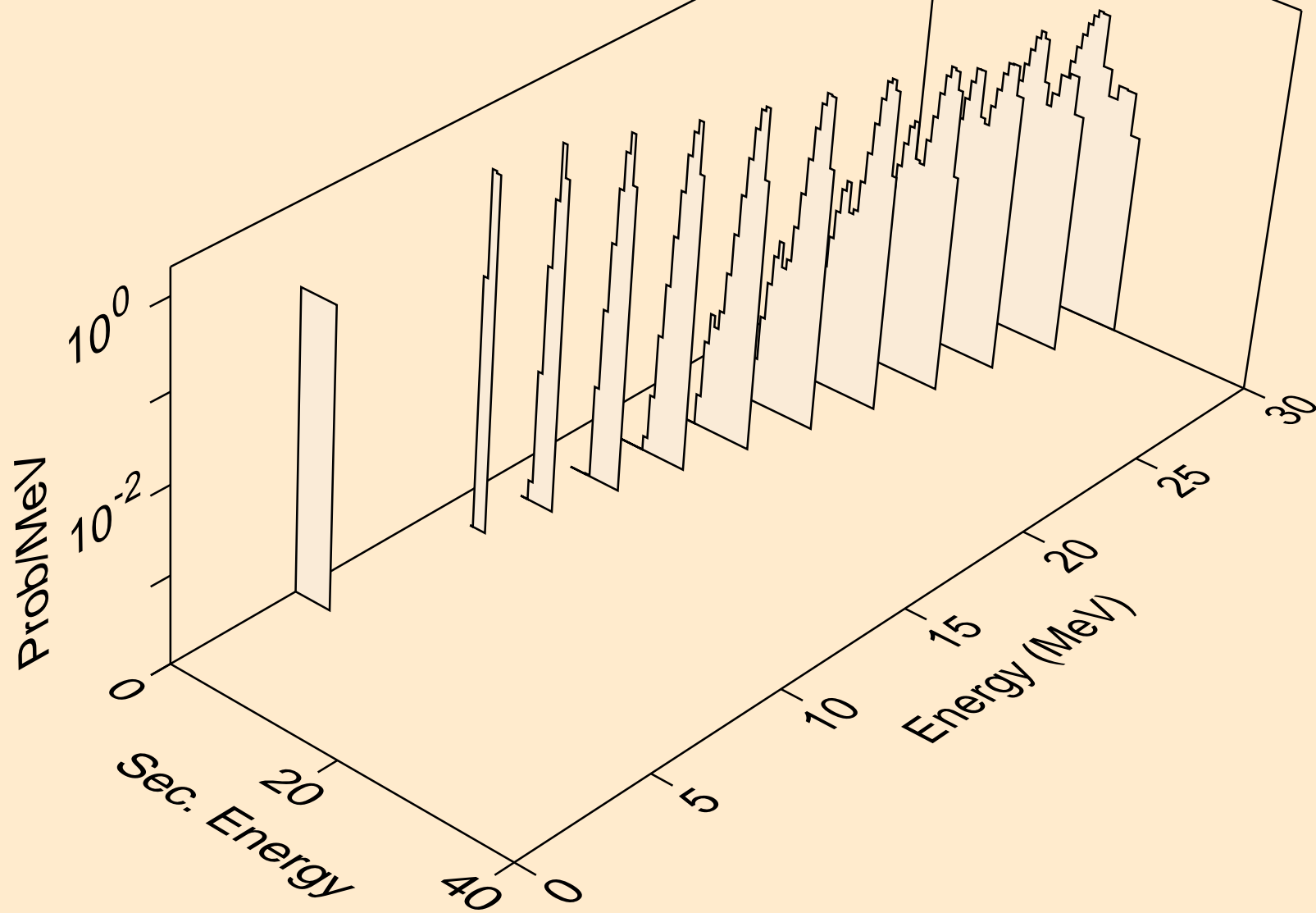




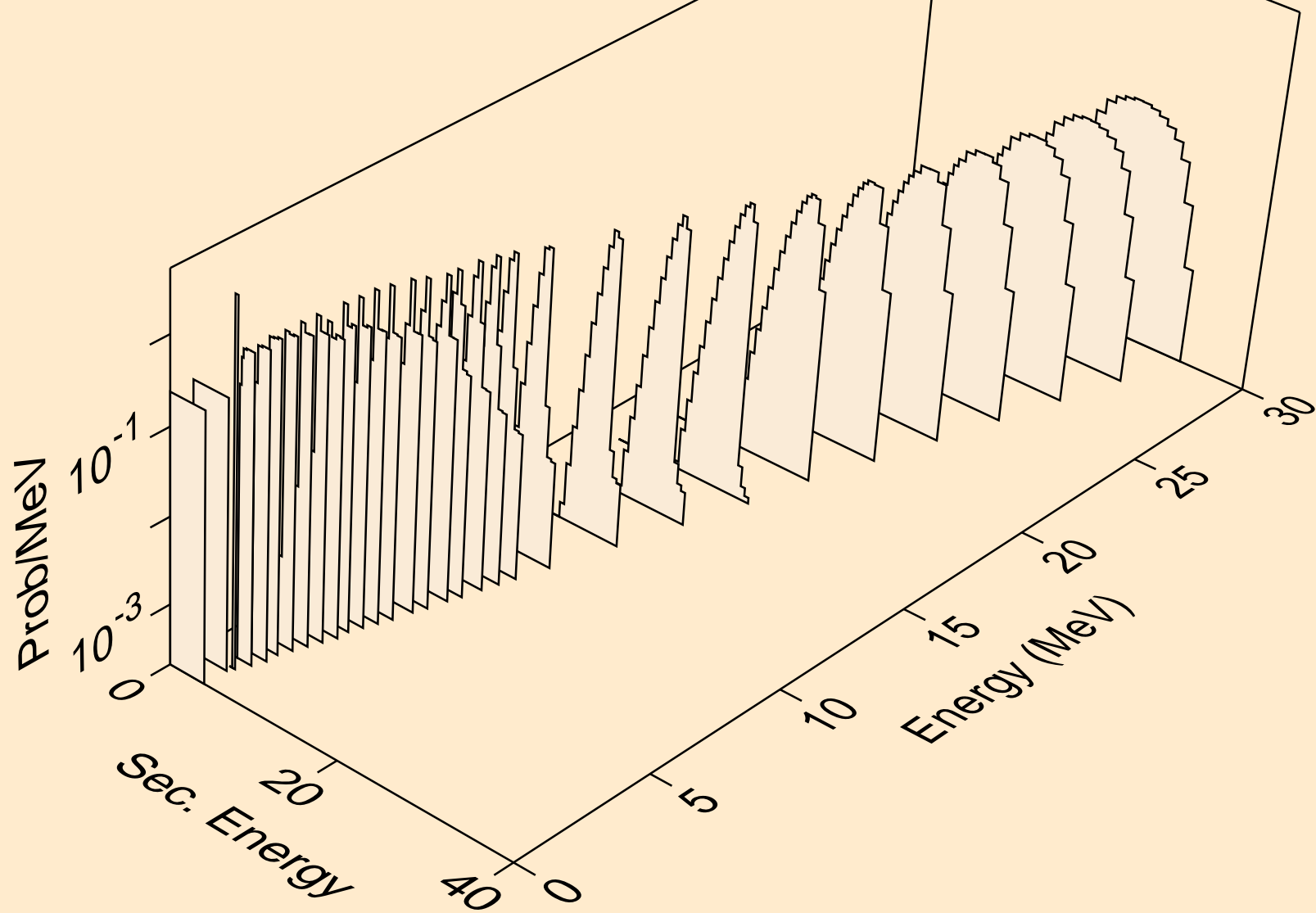
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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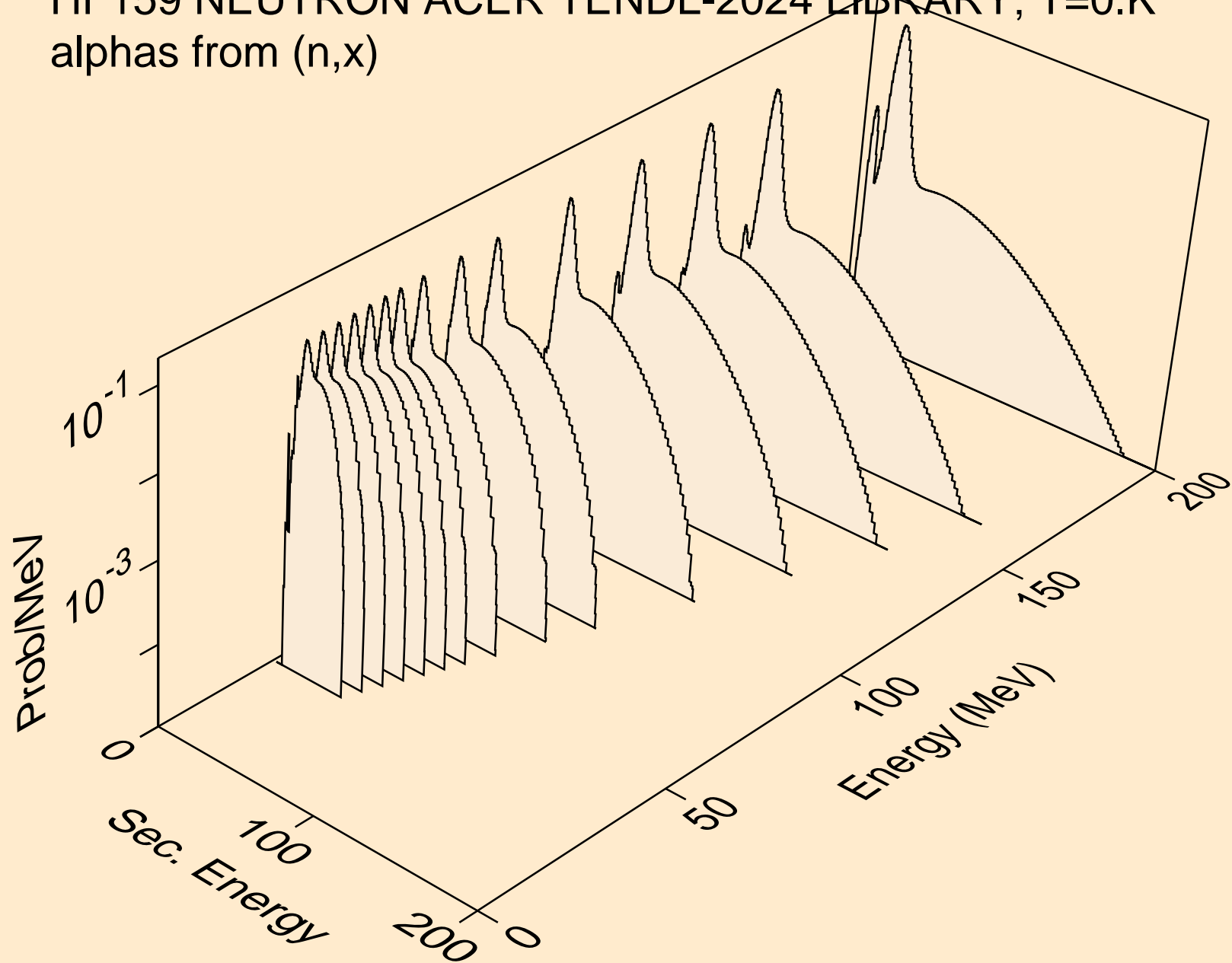
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he3s from (n,n\*)he3



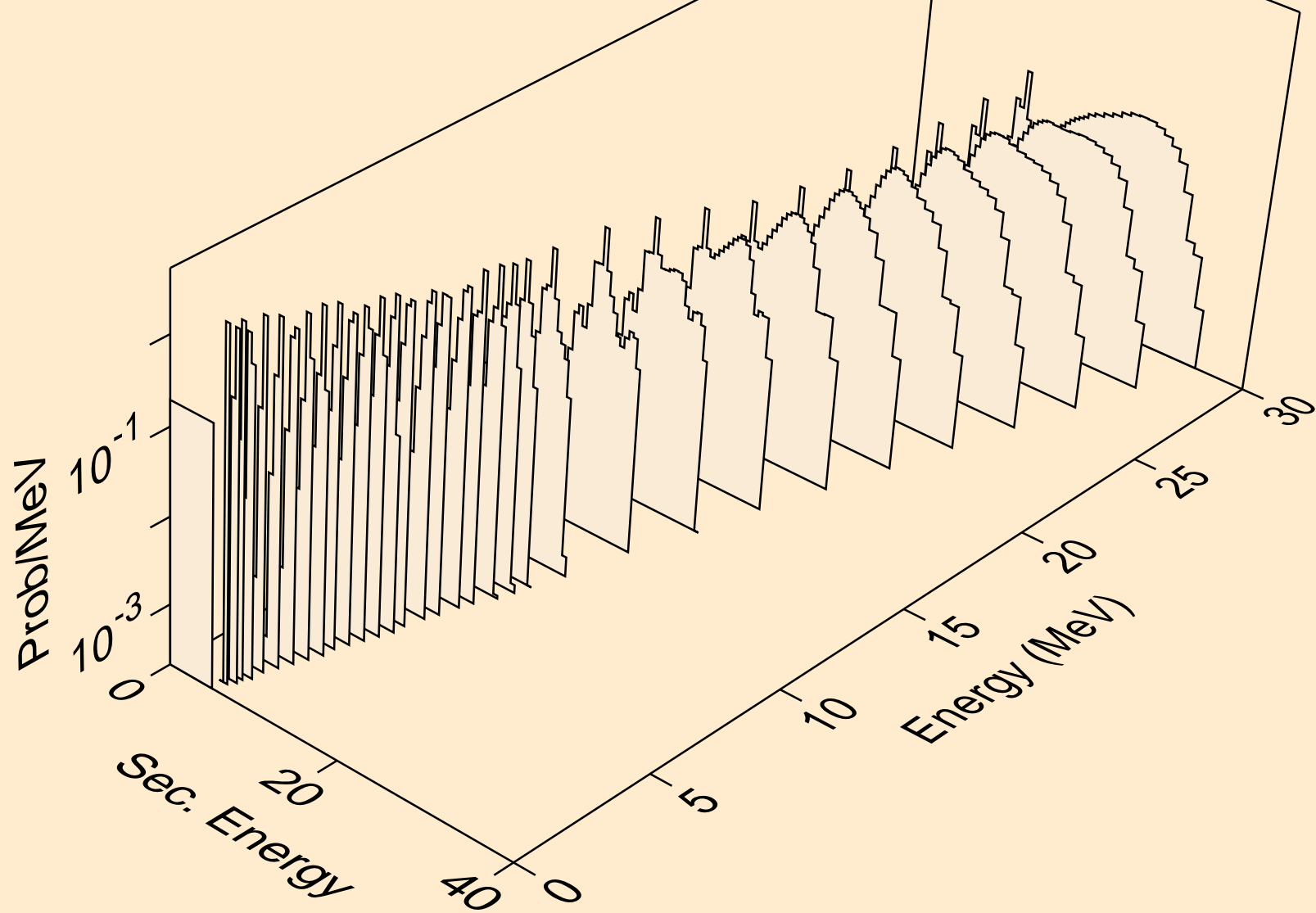
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he3s from (n,he3)



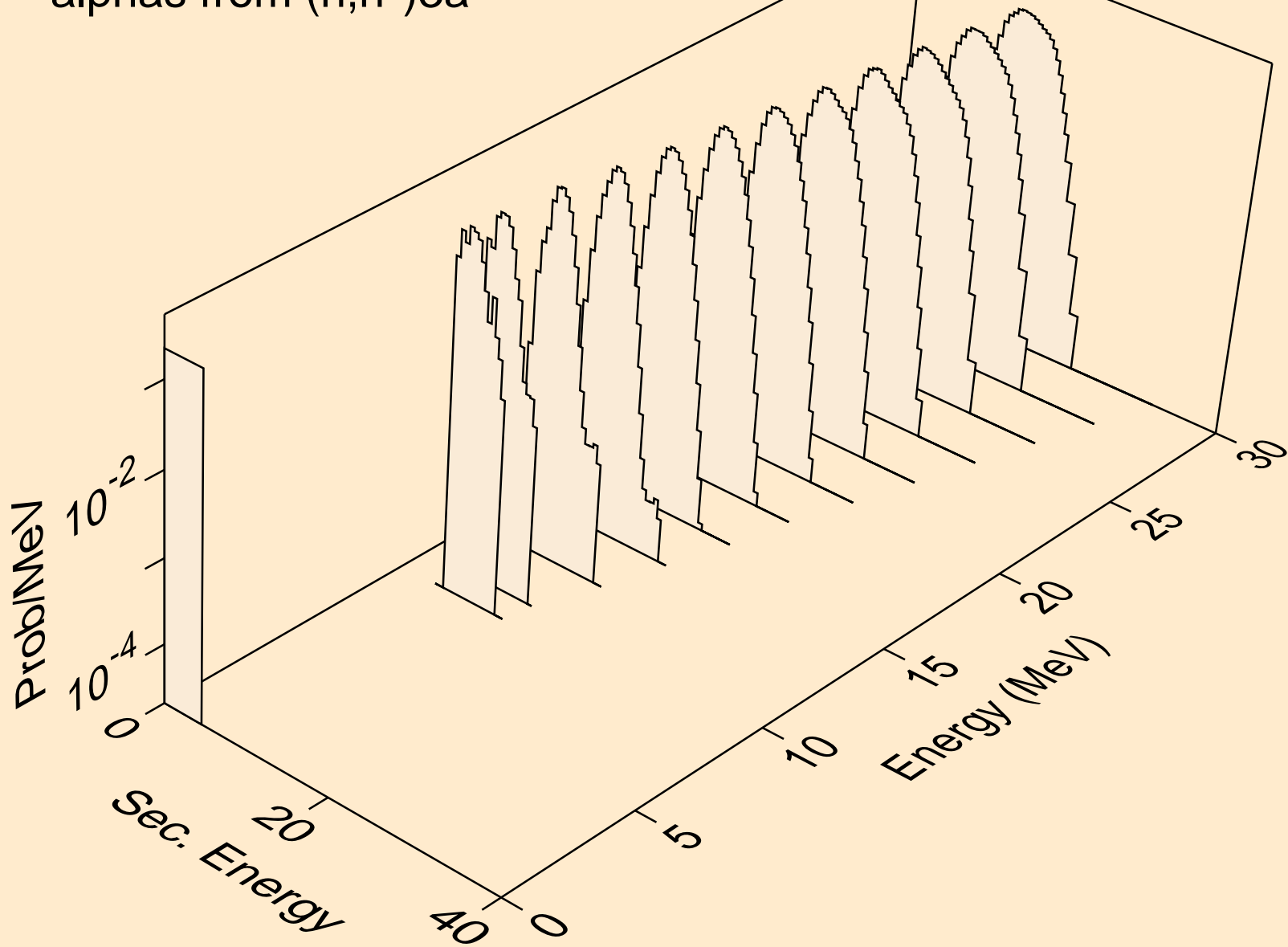
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alphas from (n,x)



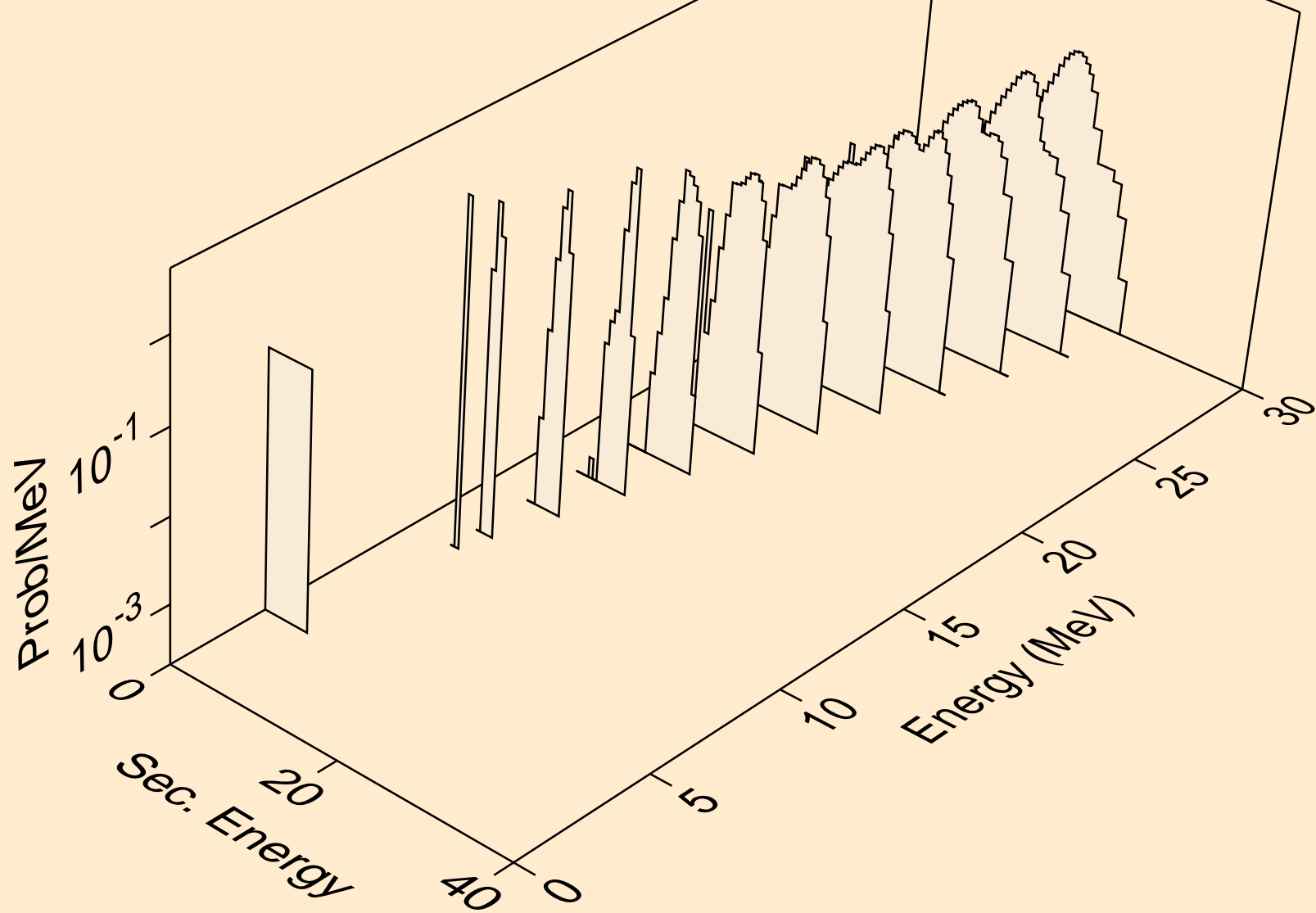
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alphas from (n,n\*)a



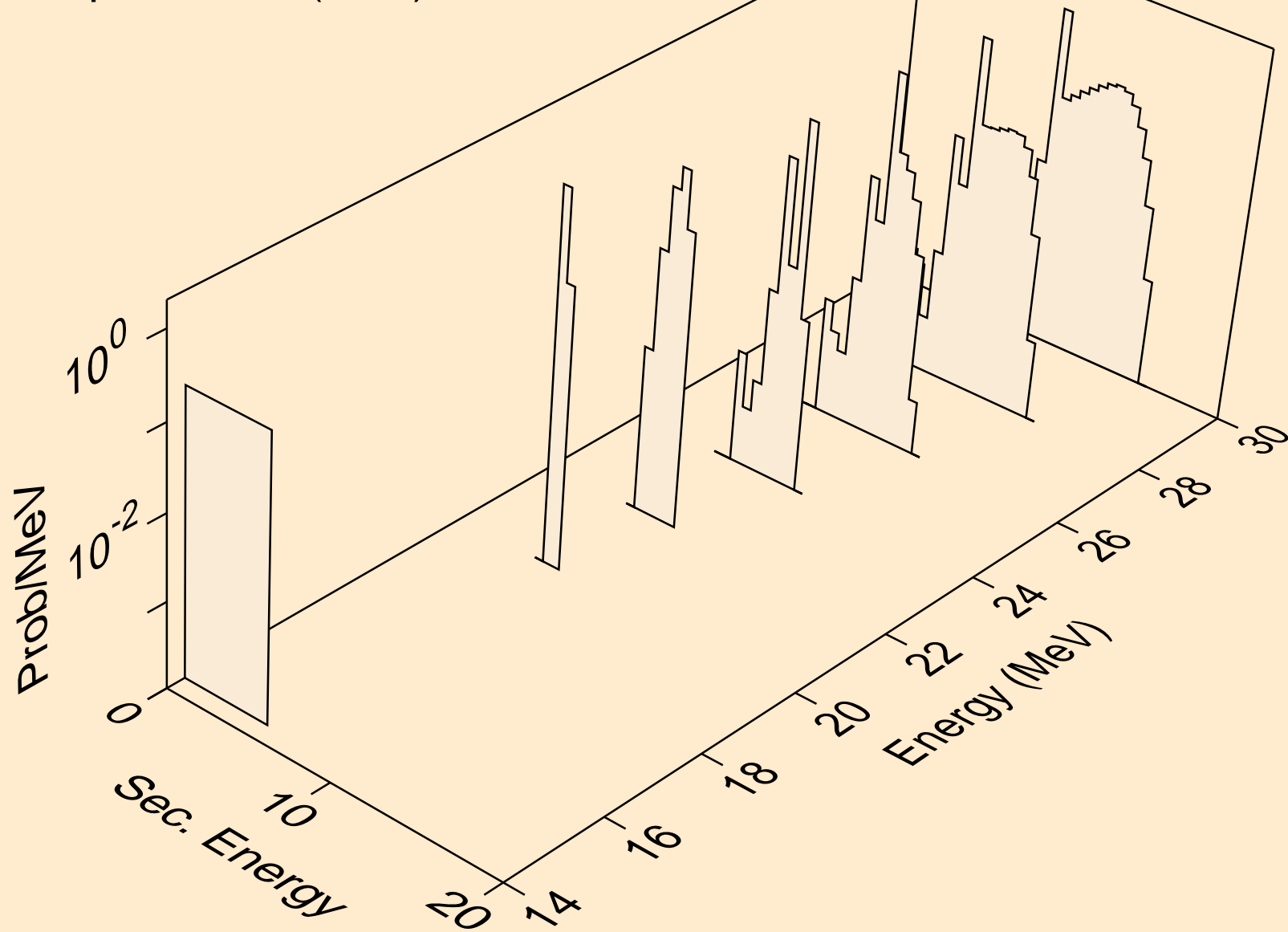
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HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a

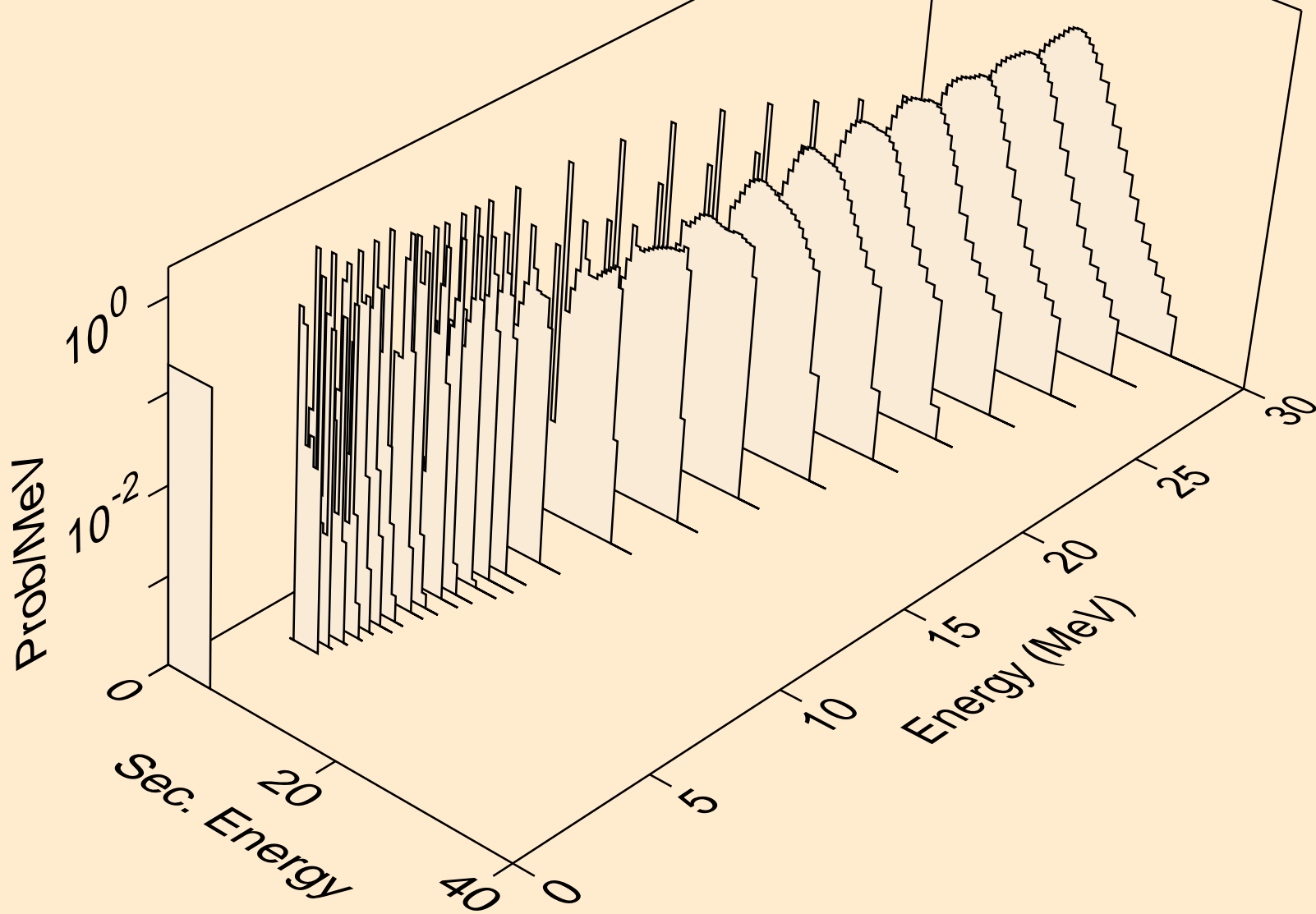


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alphas from (n,3n)a

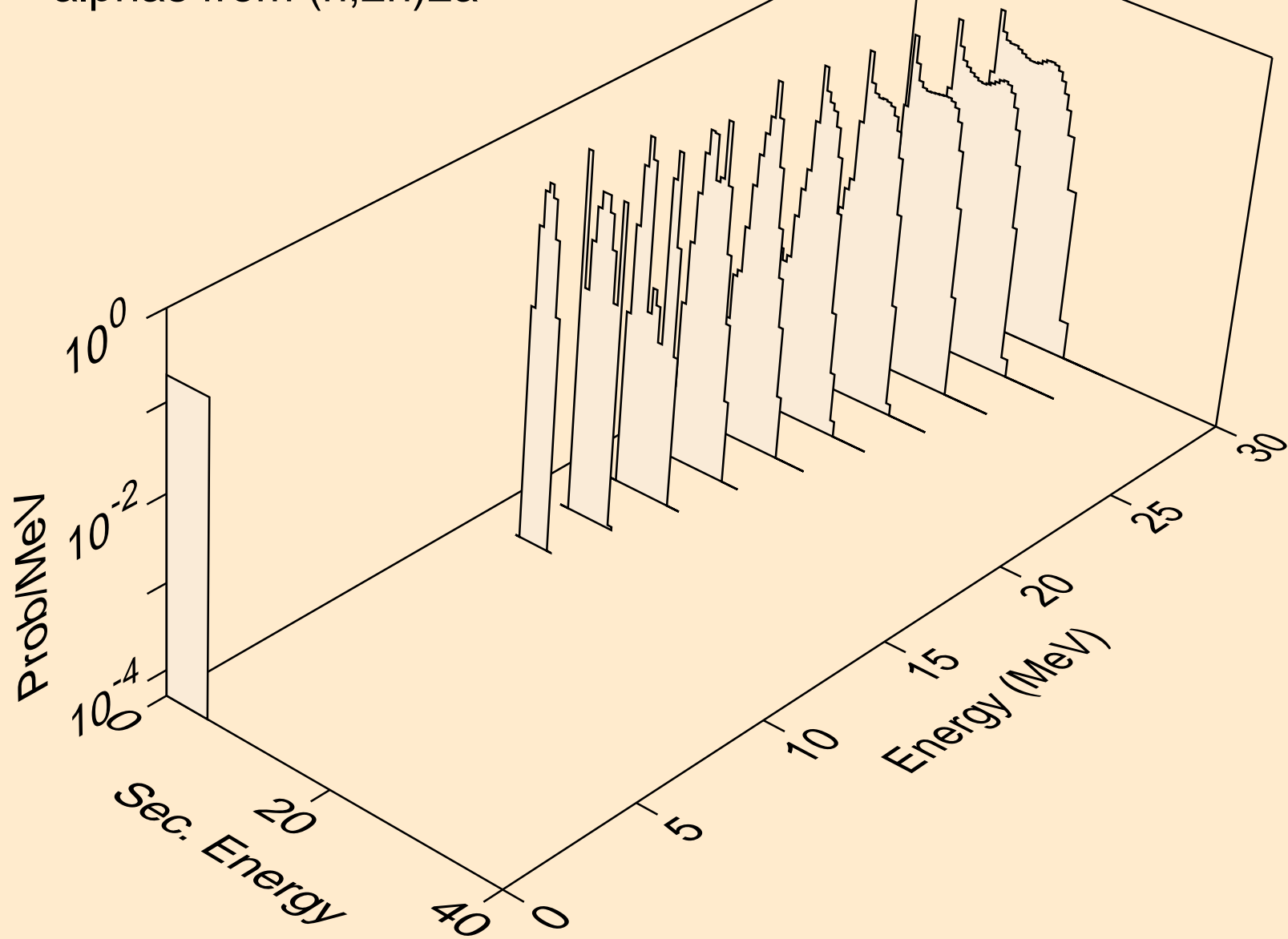




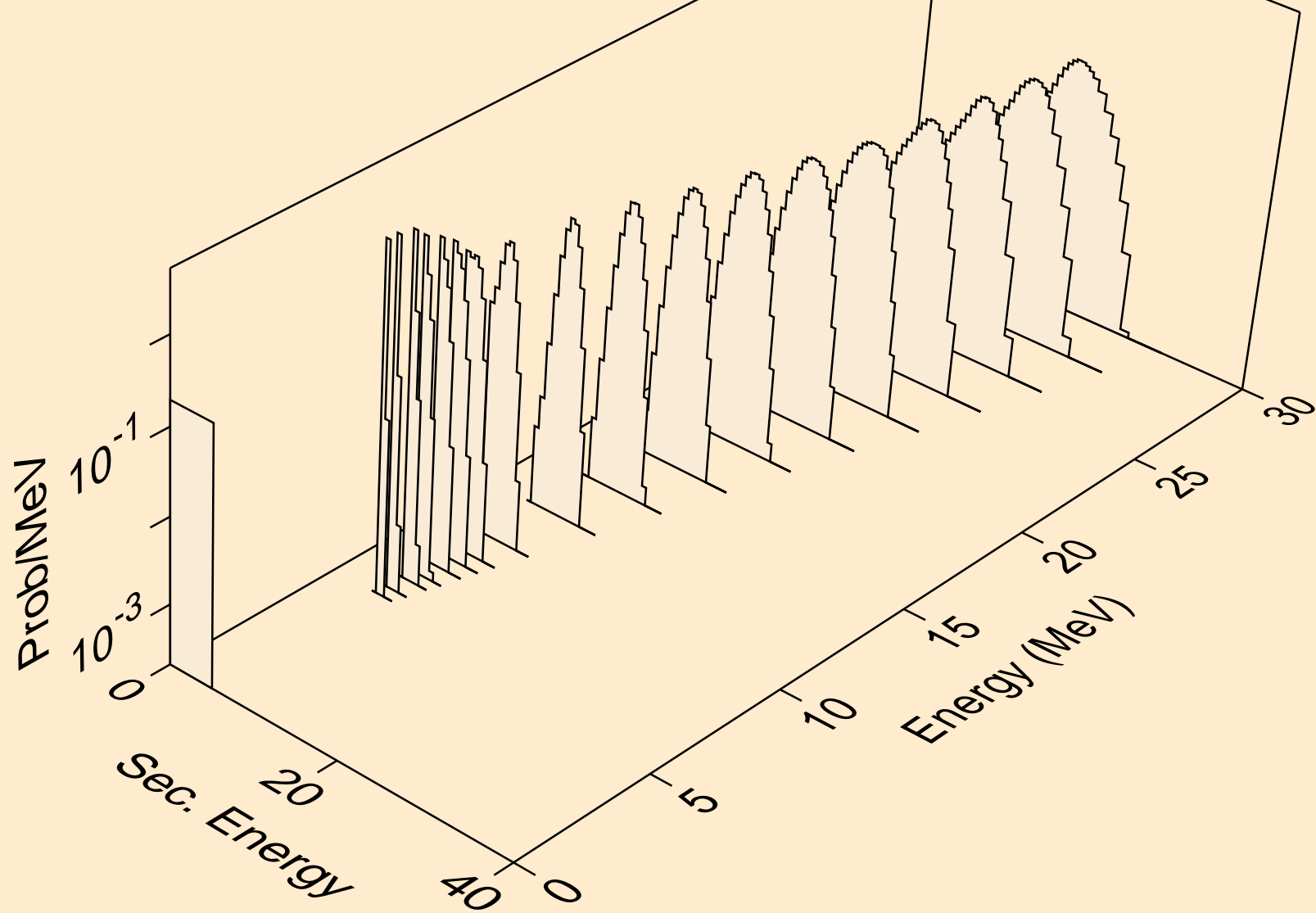
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alphas from (n,n\*)2a



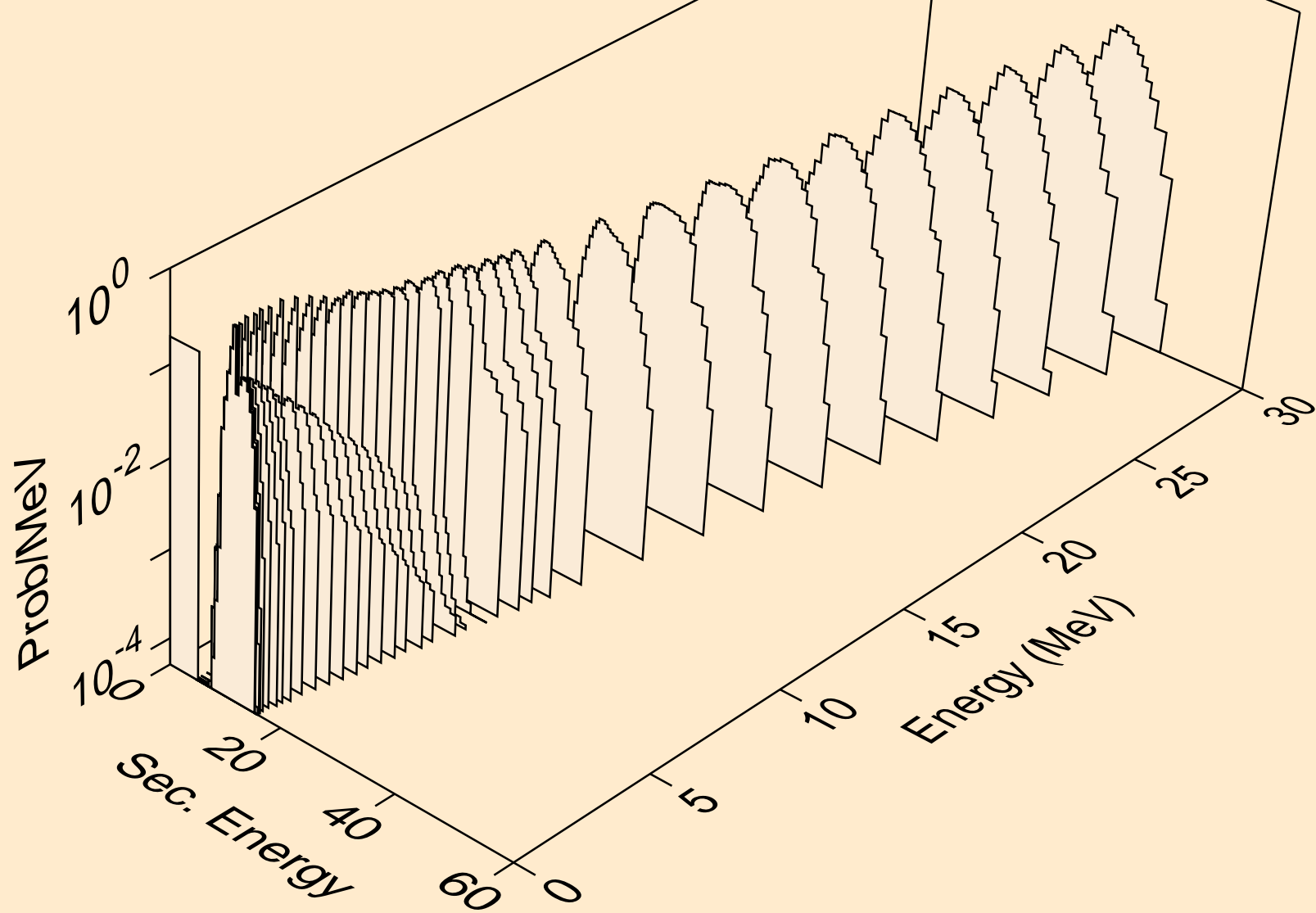
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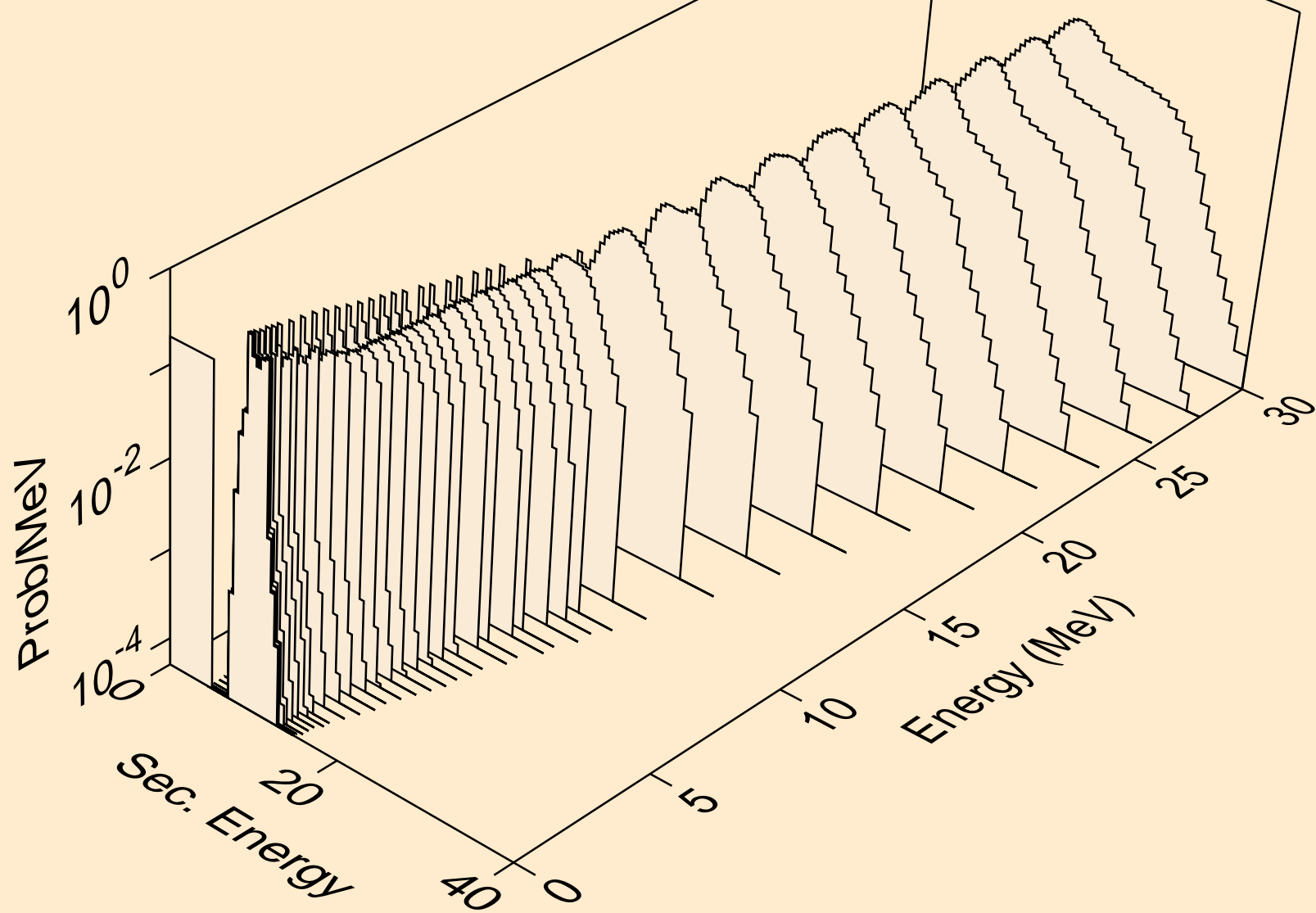
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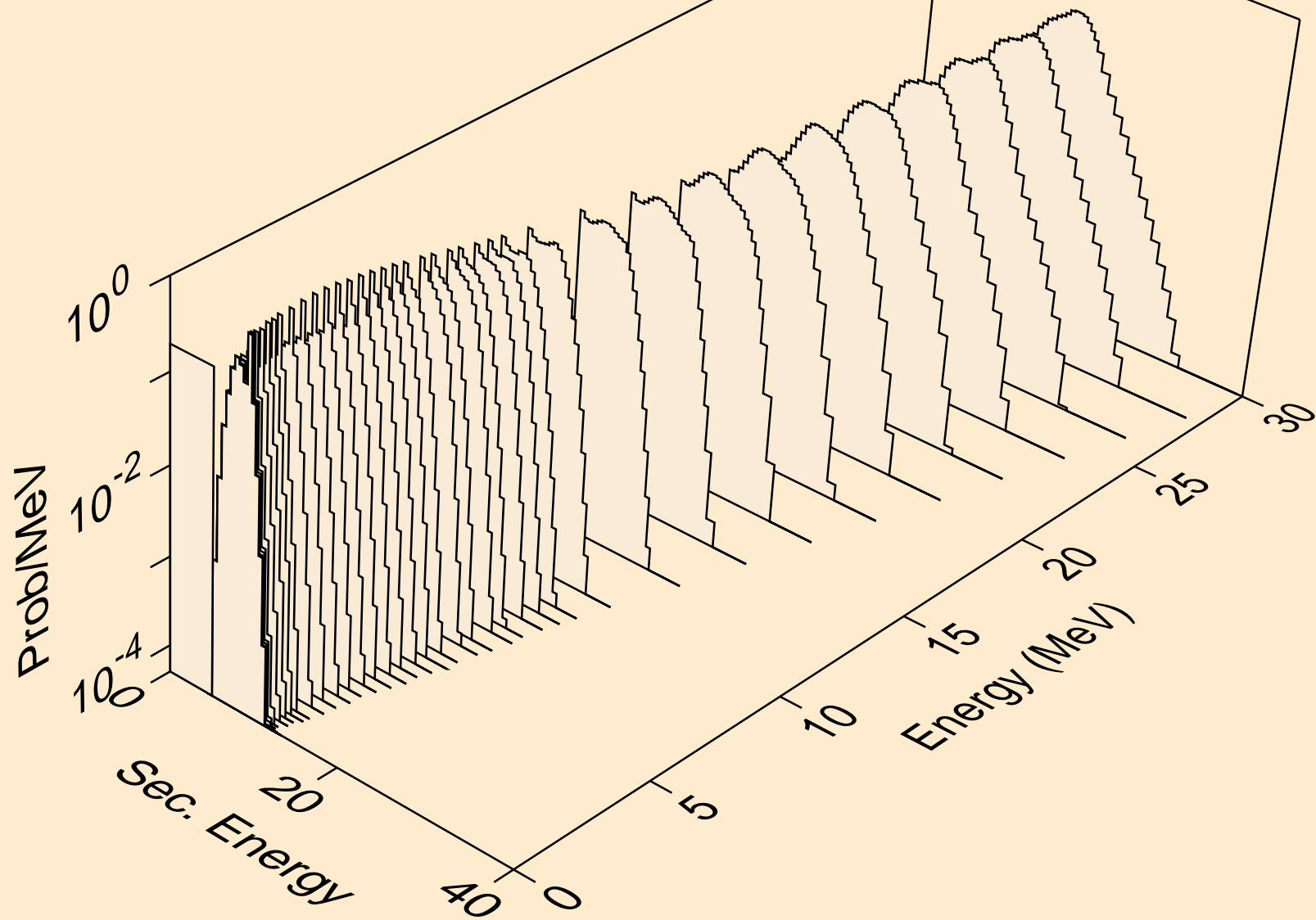
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alphas from (n,a)



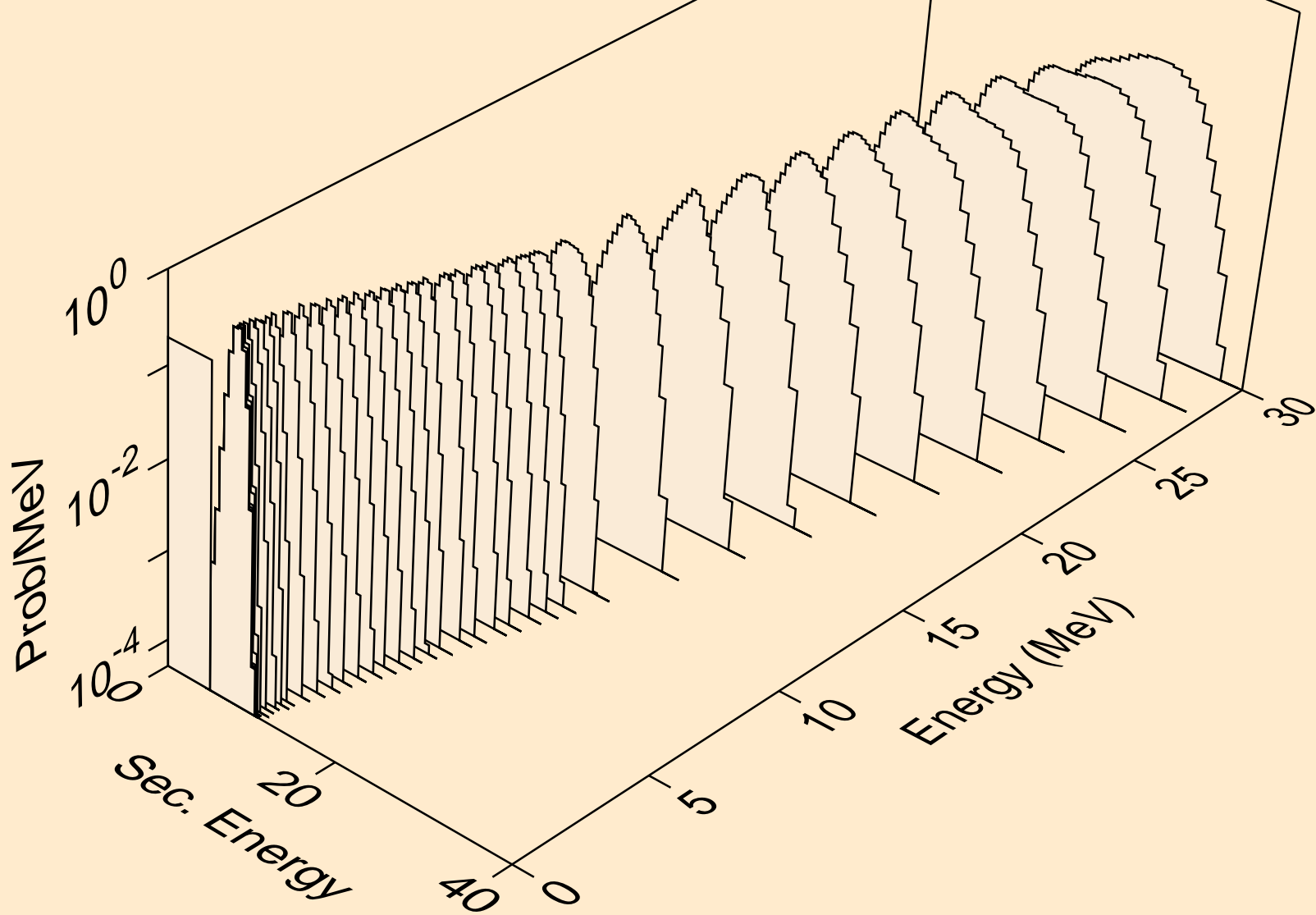
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alphas from (n,2a)



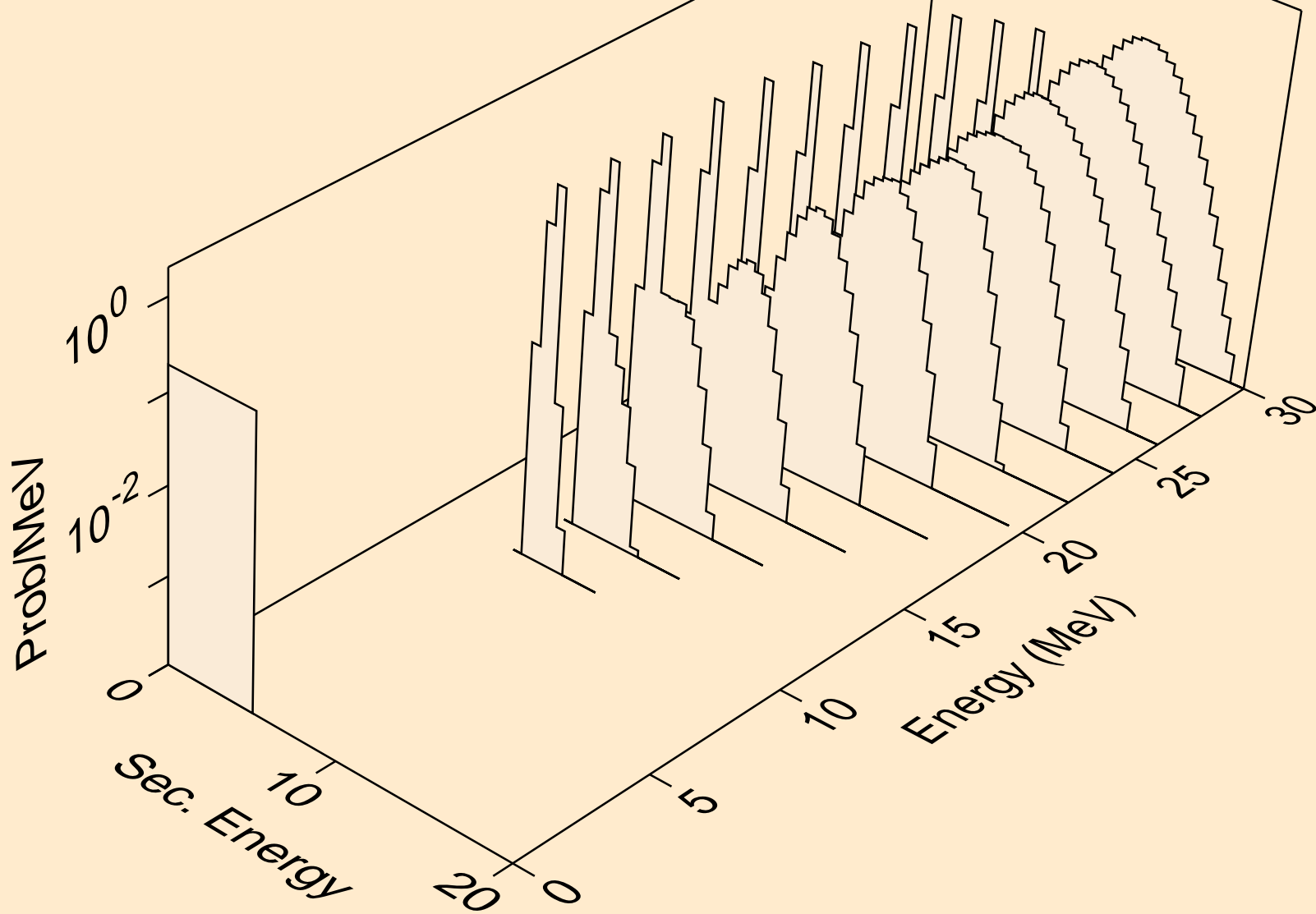
HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3a)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)

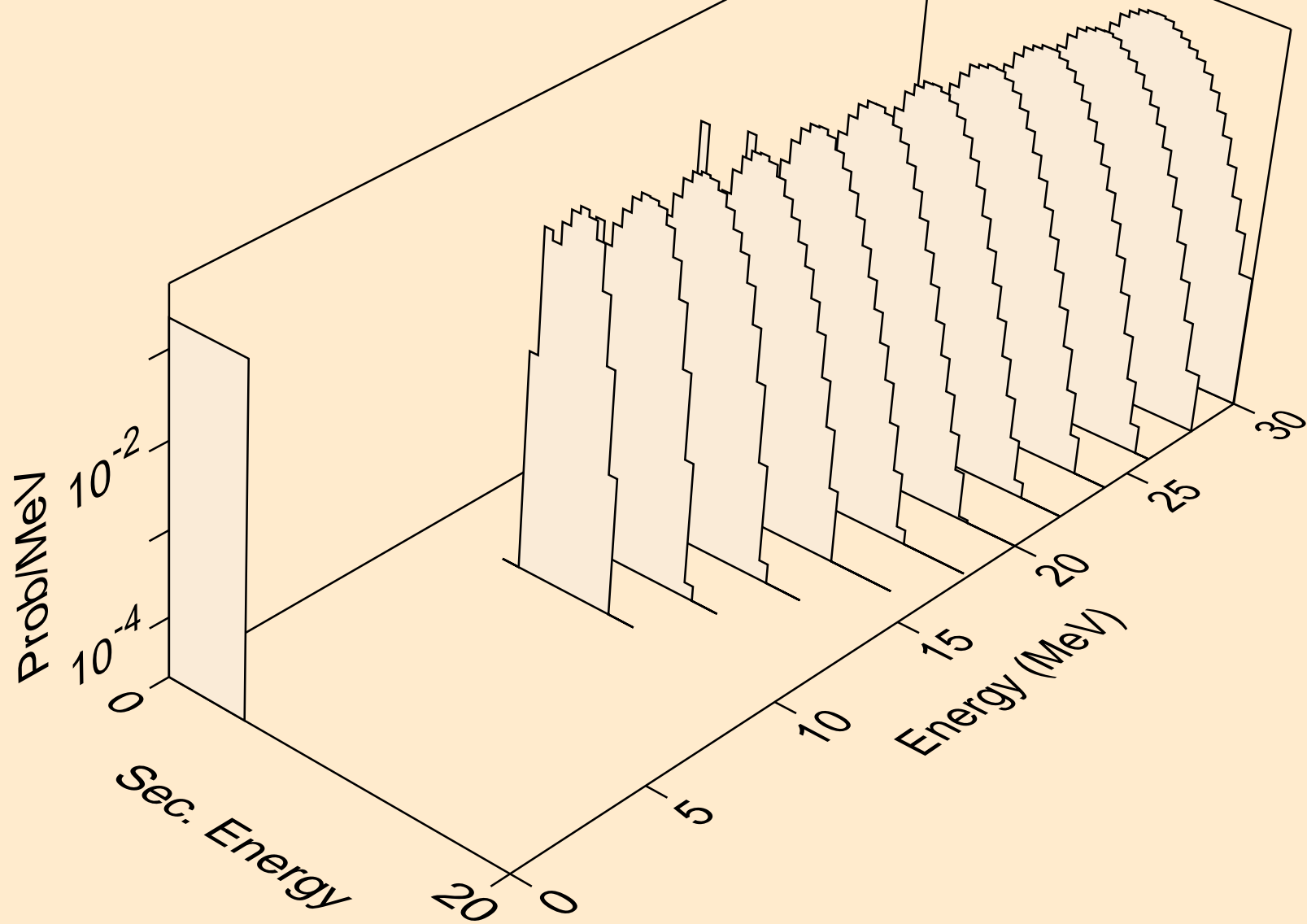


HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,t2a)





HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,d2a)



HF159 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

