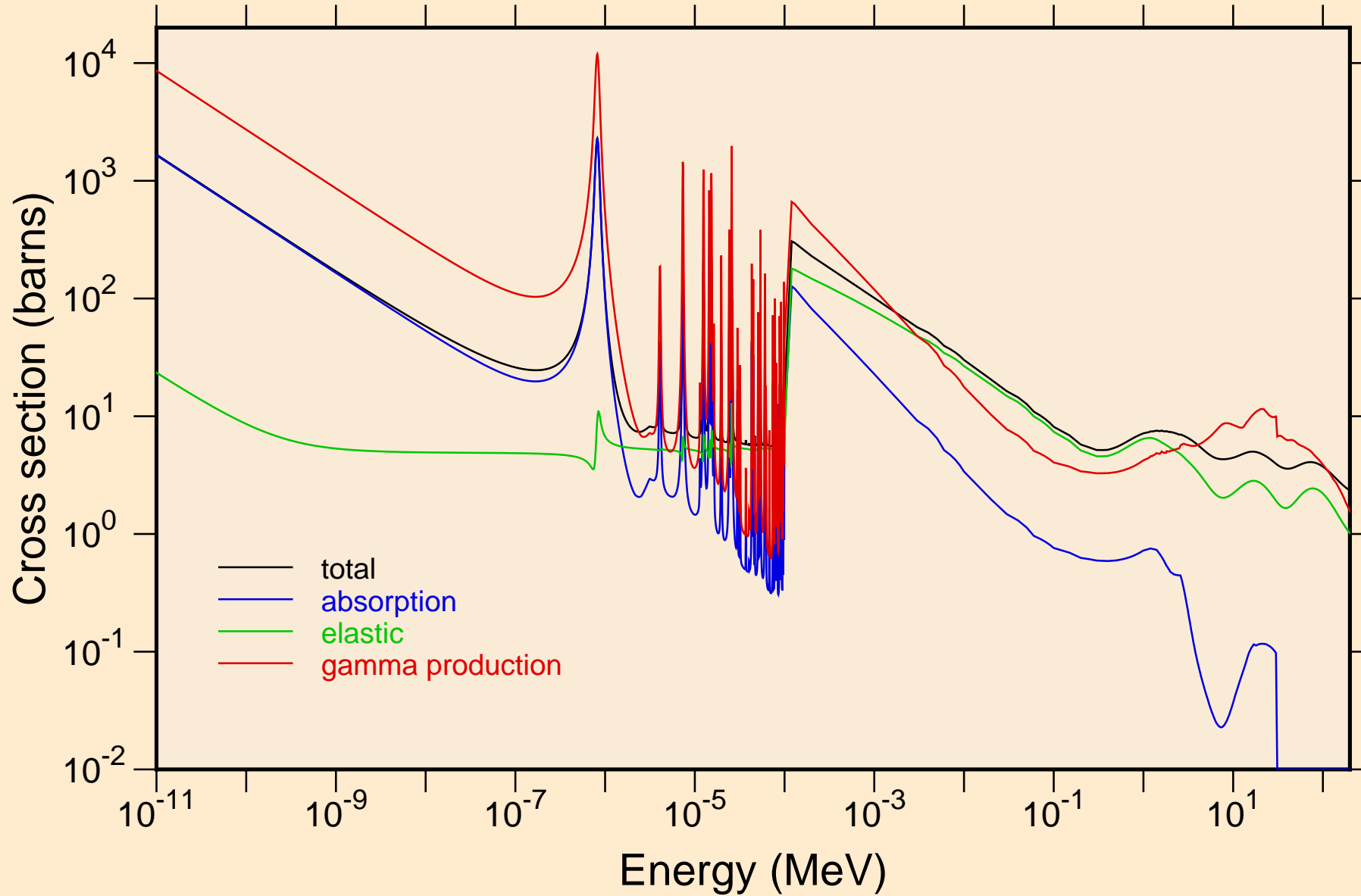
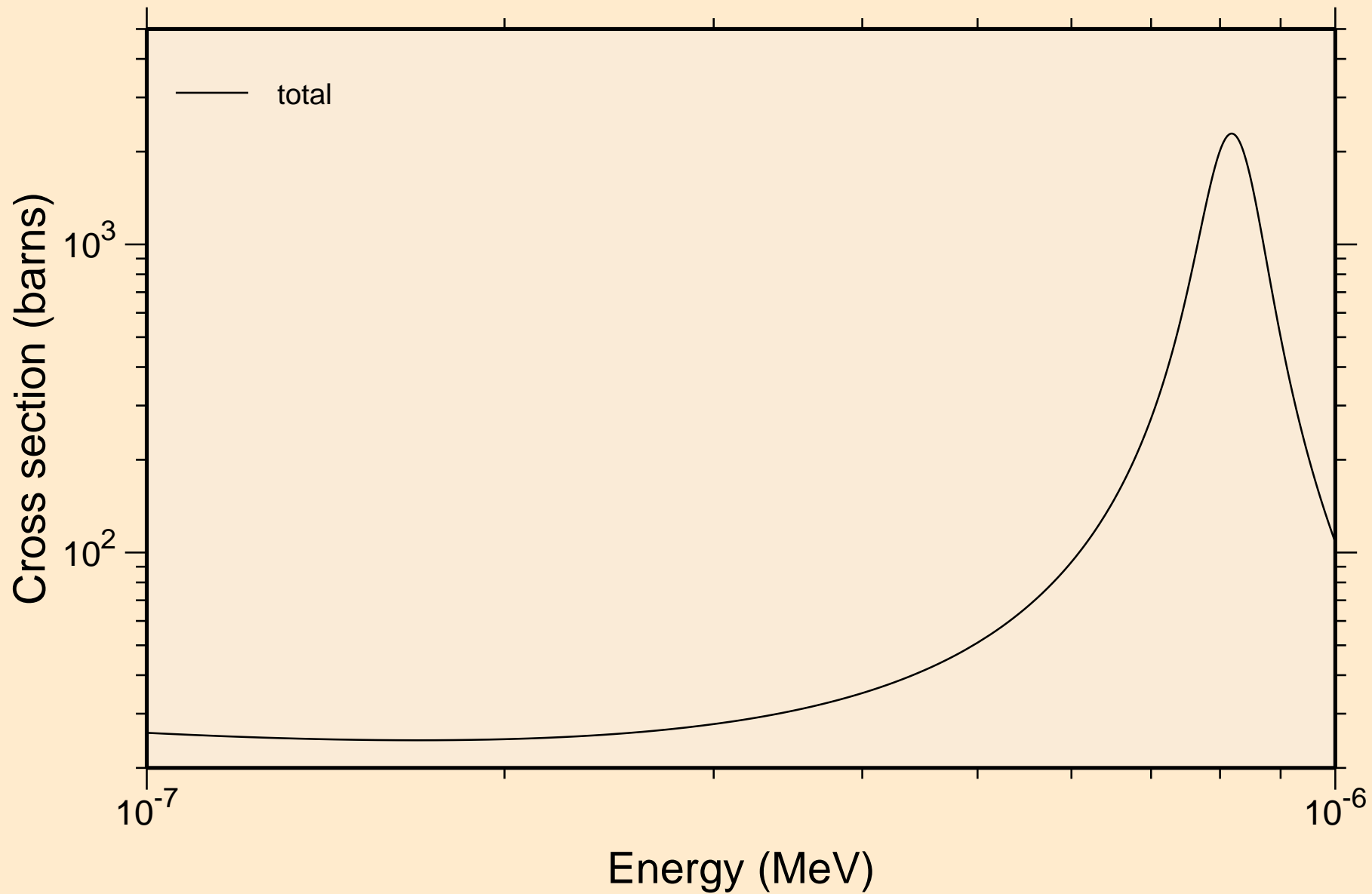


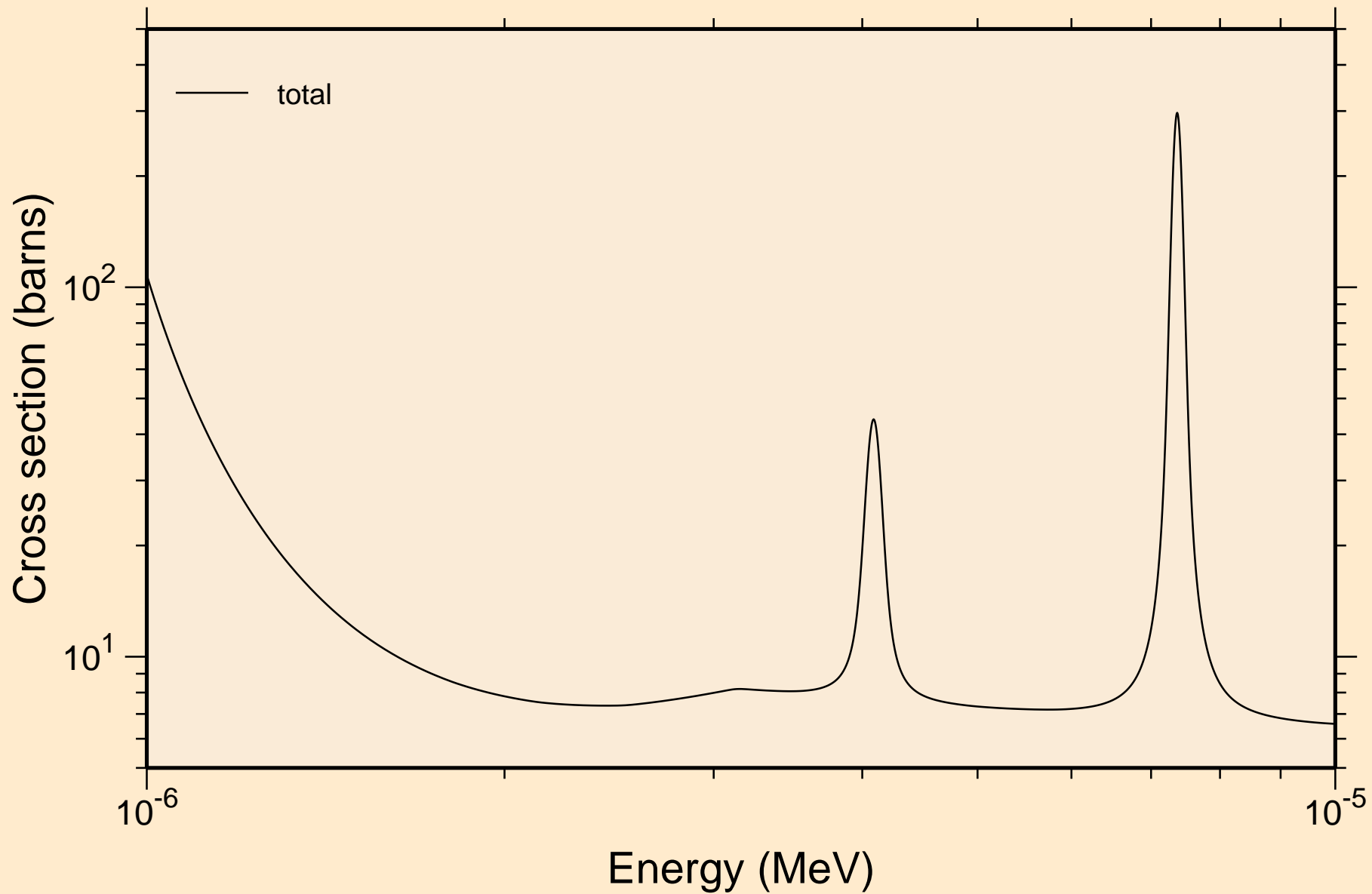
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



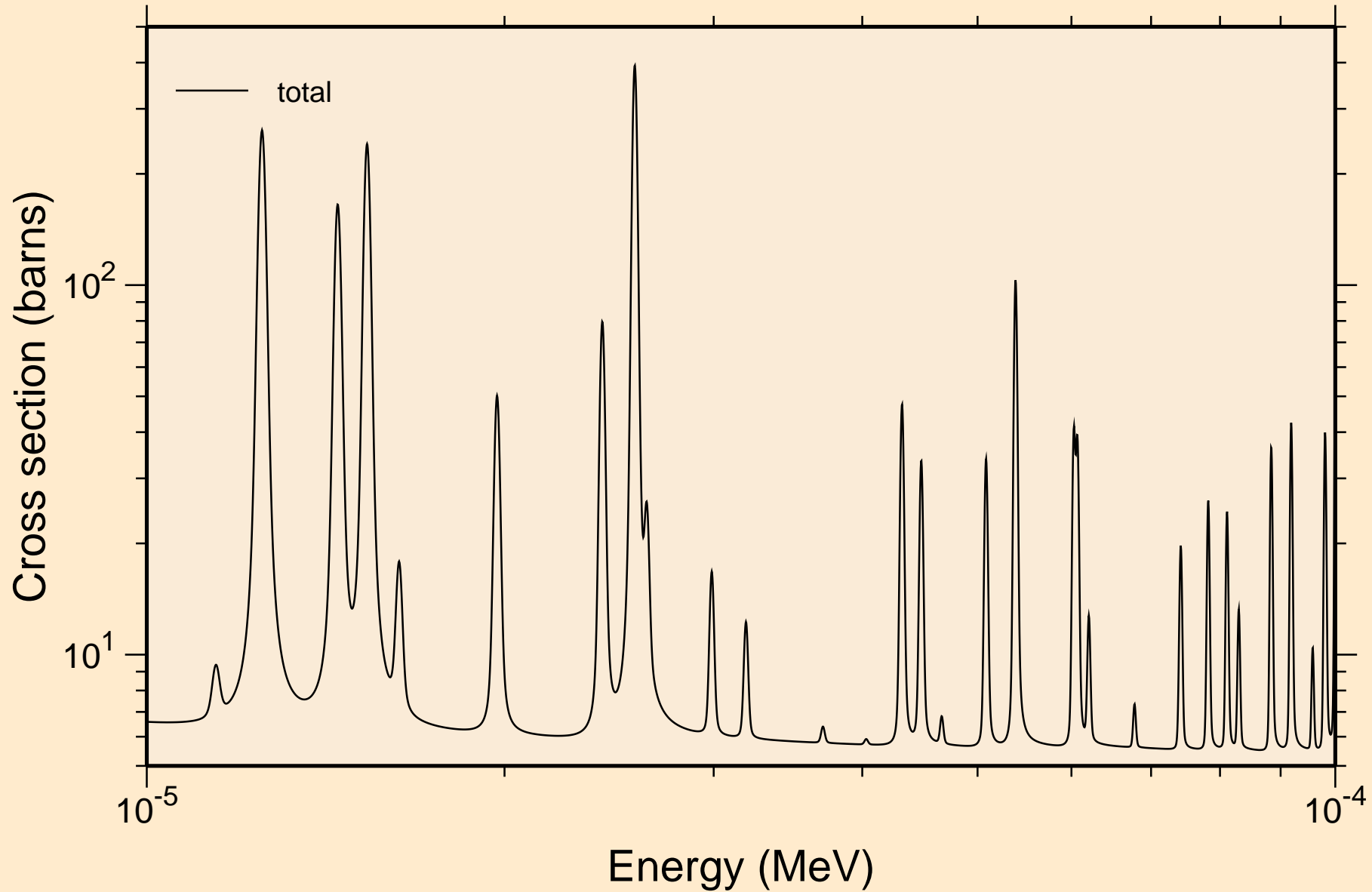
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



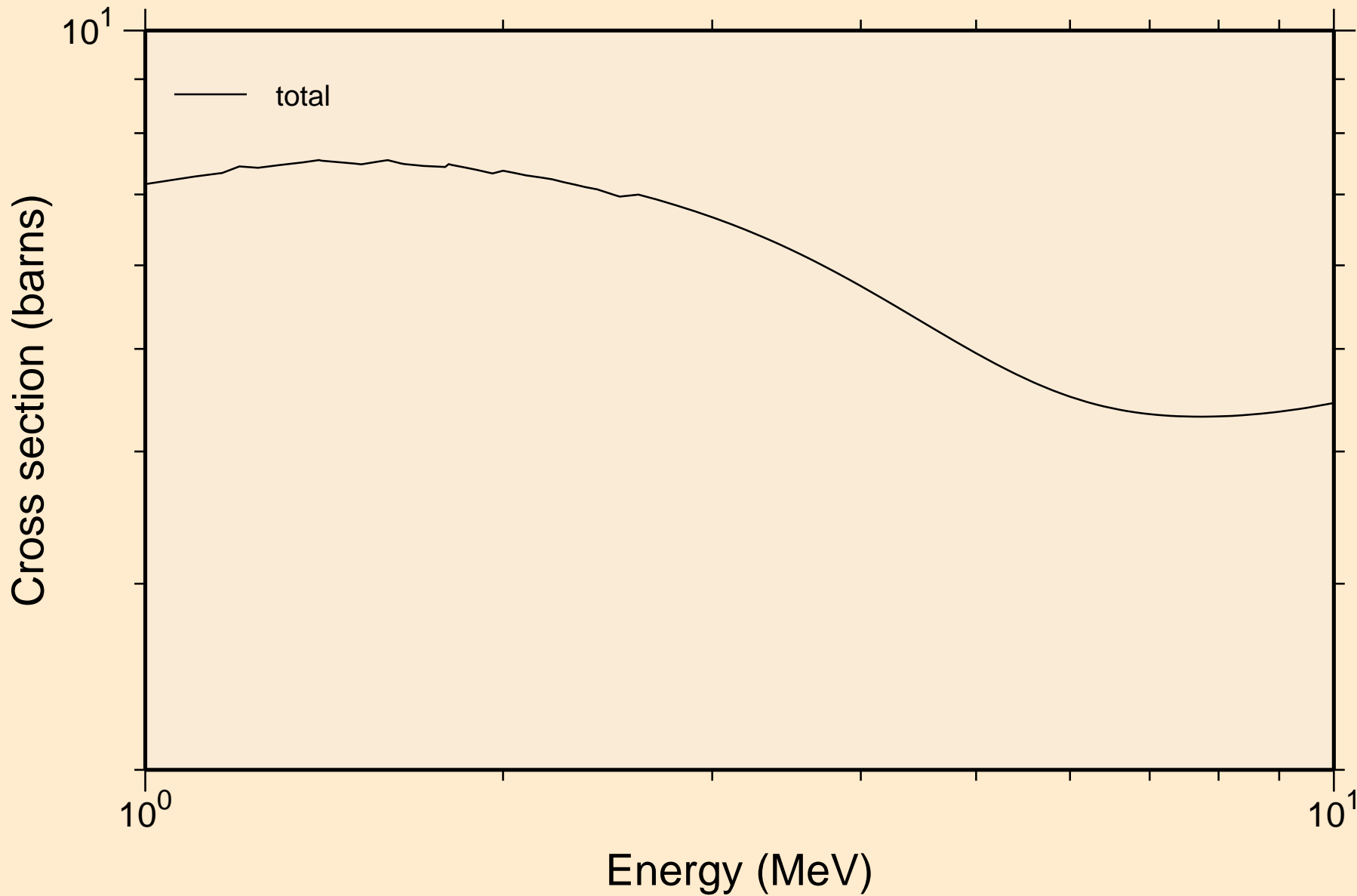
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



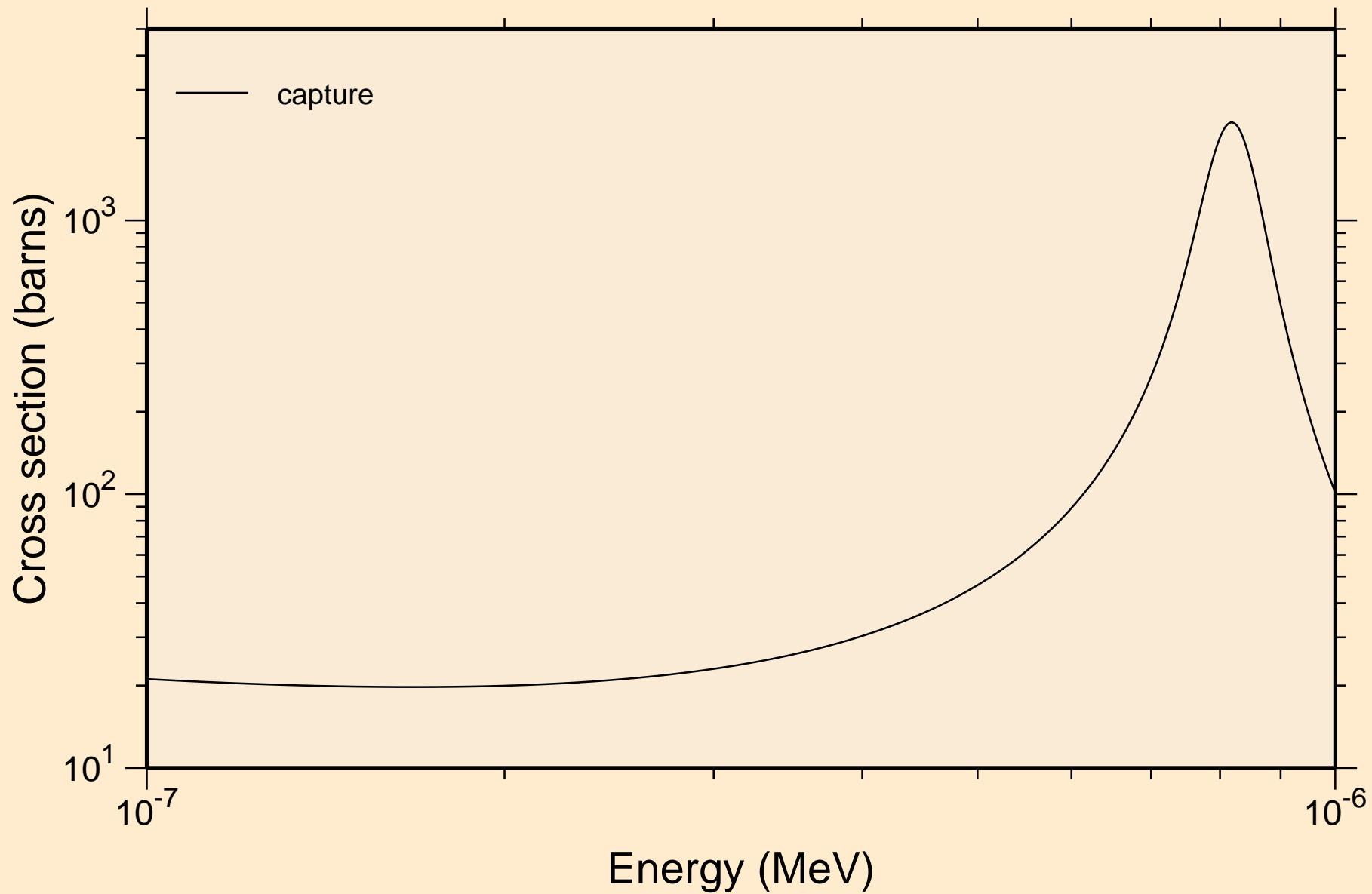
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



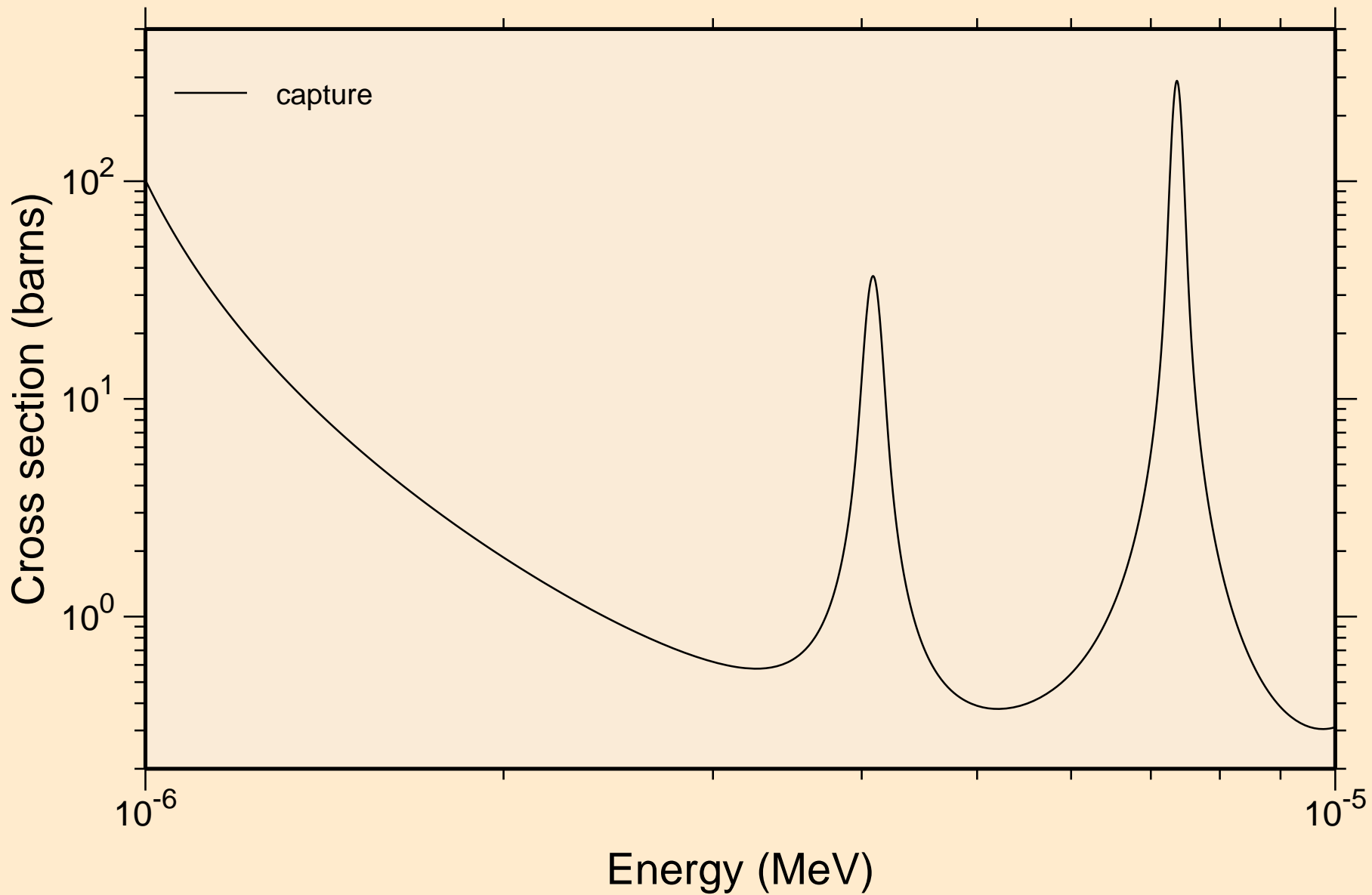
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



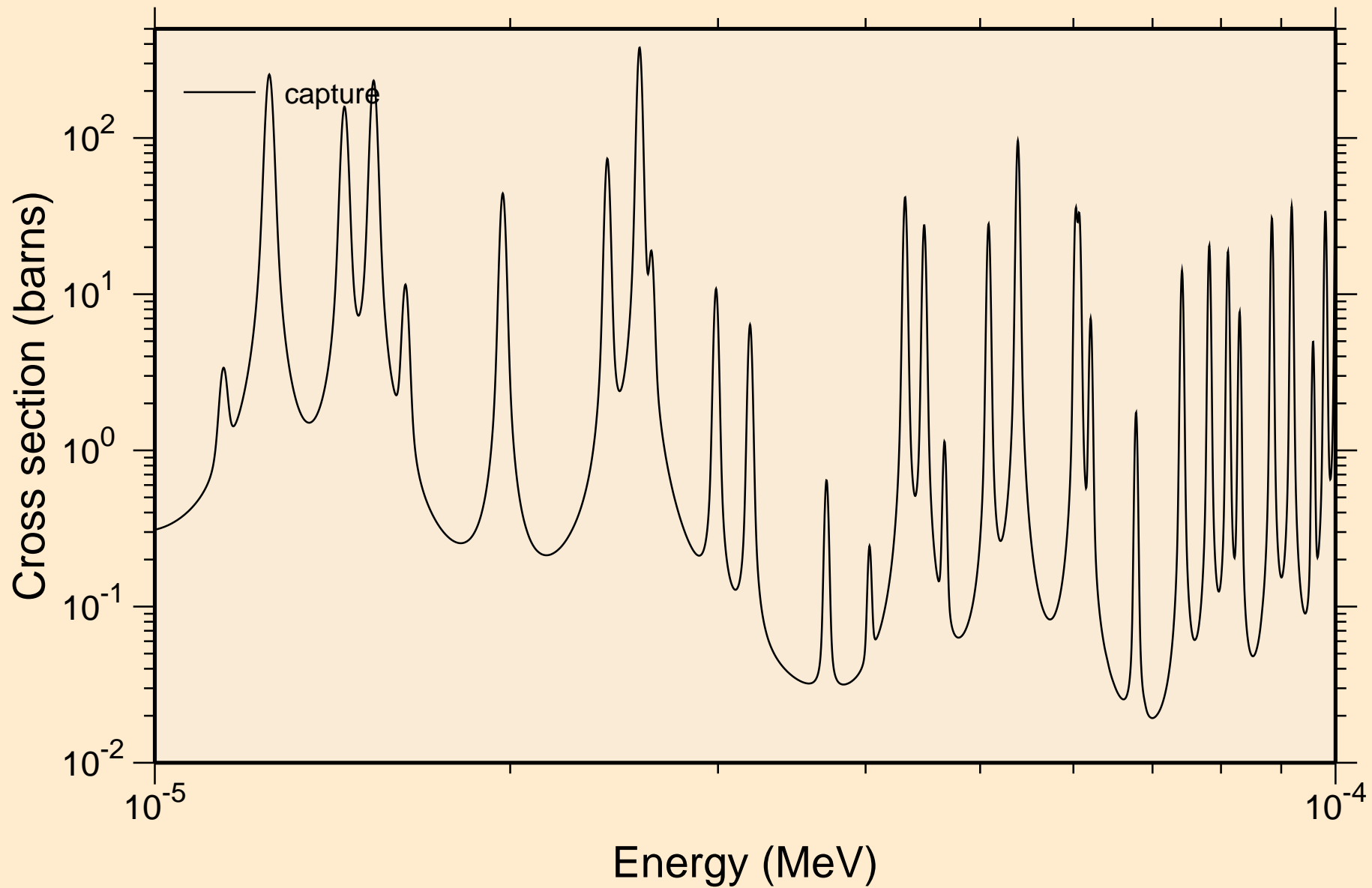
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

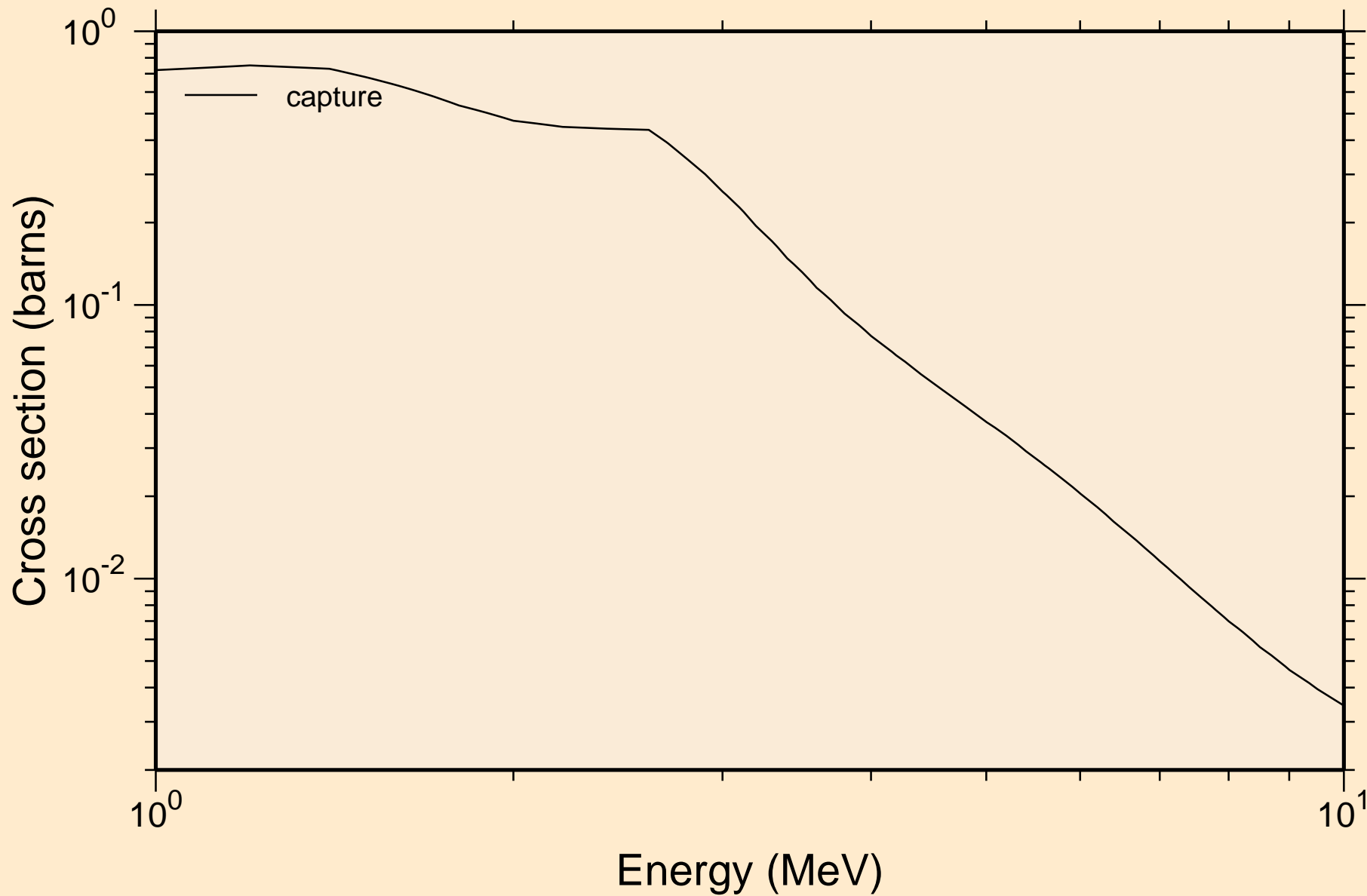


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

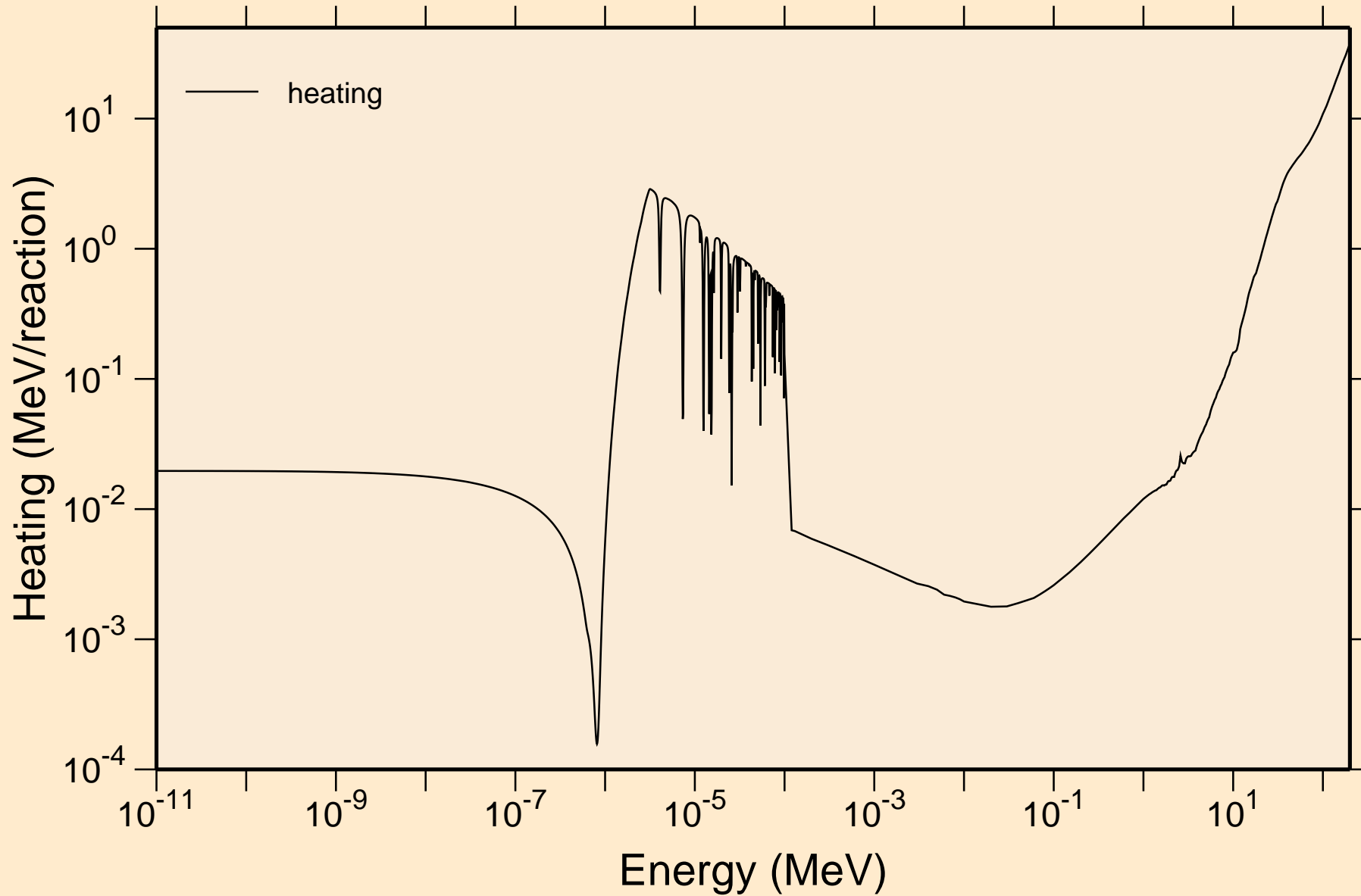




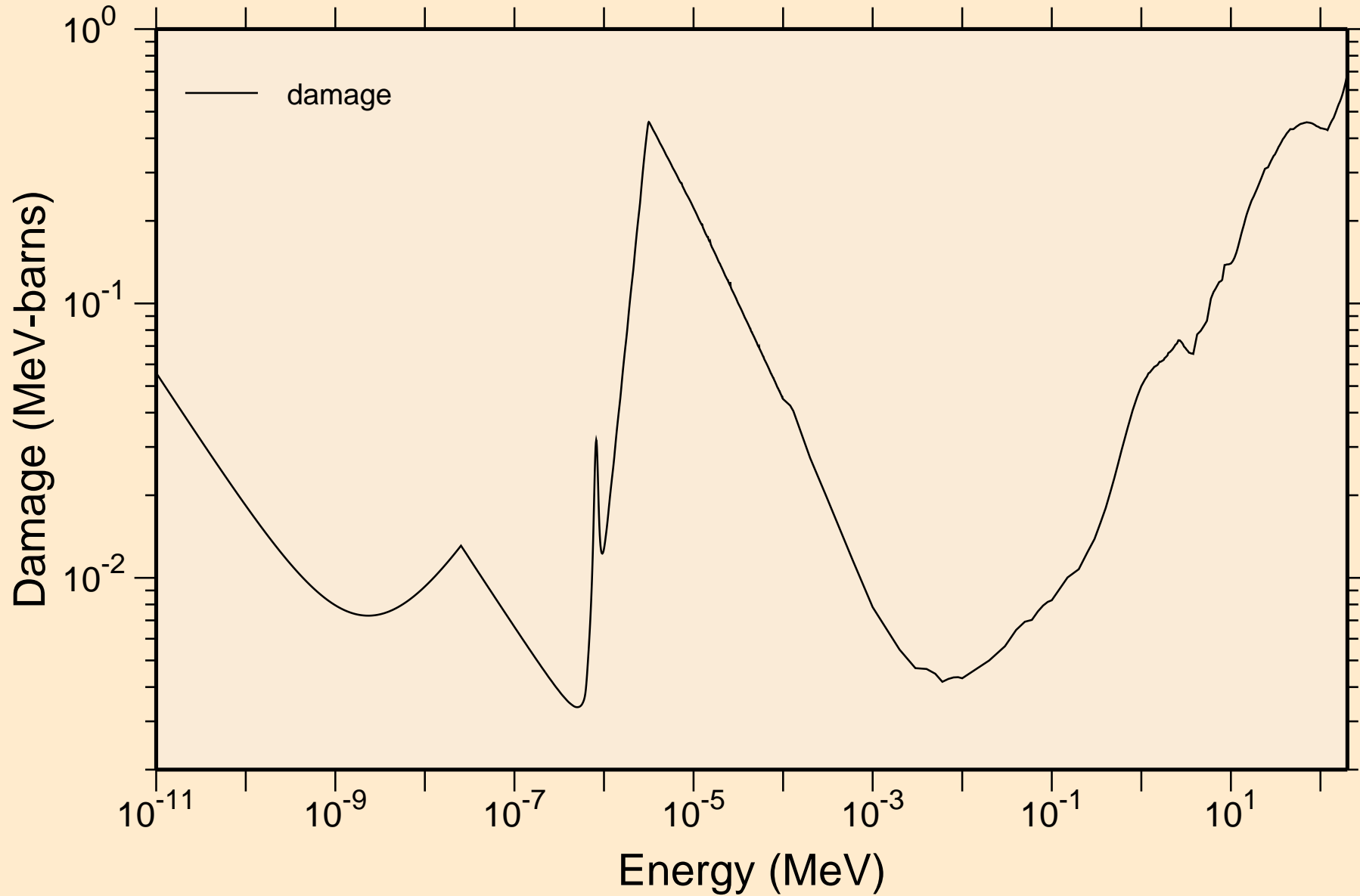
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

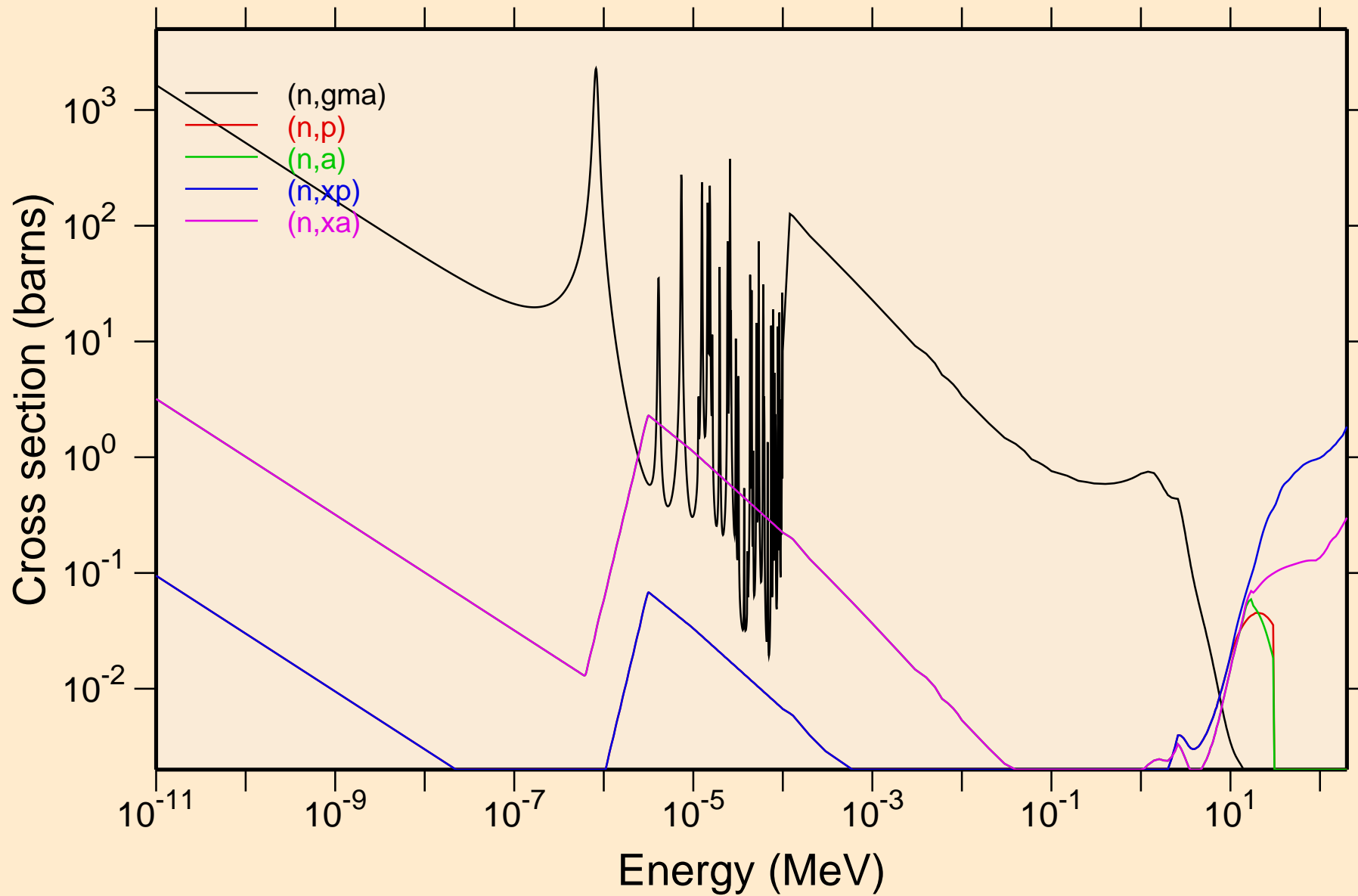


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

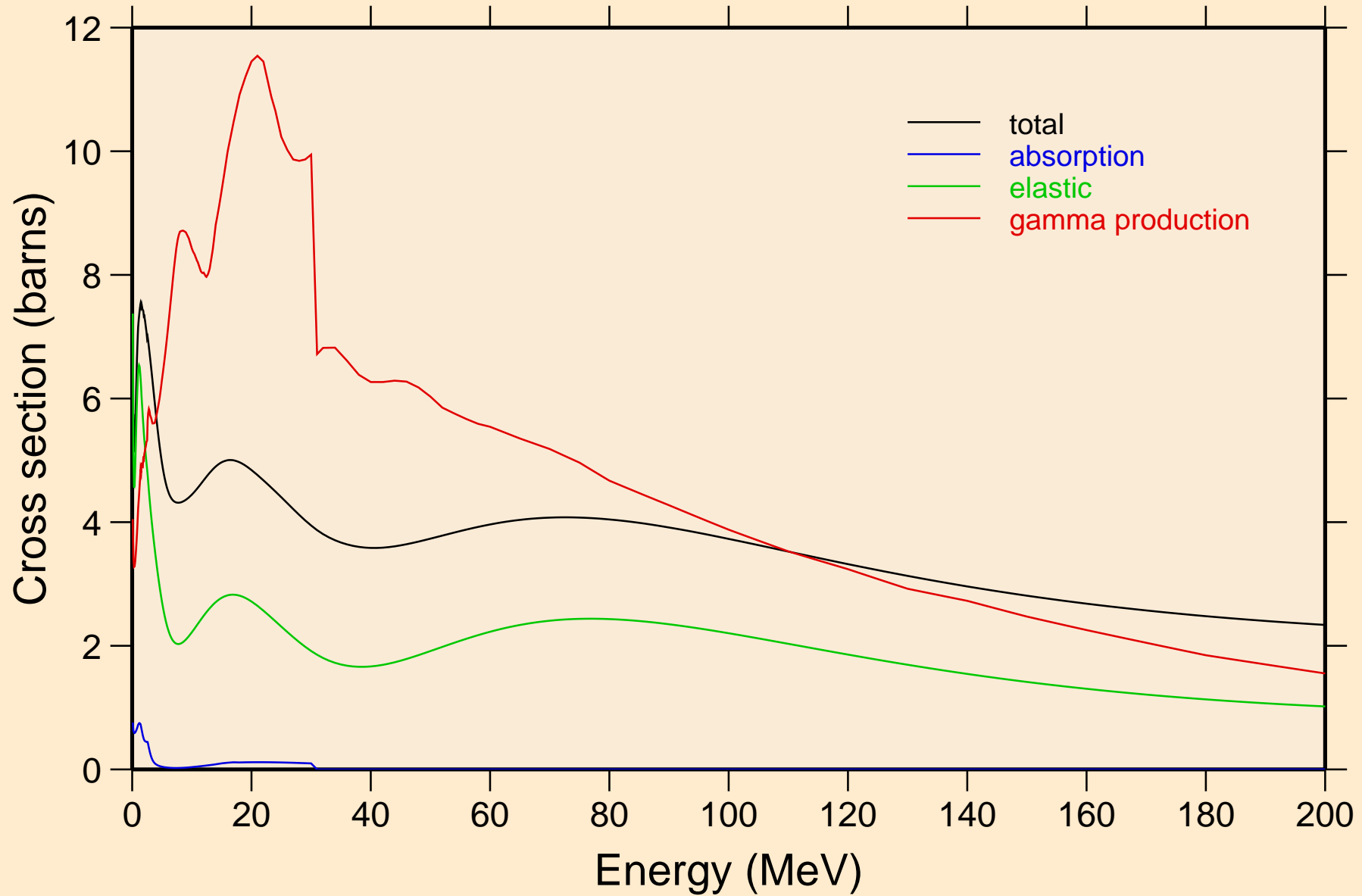


# GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

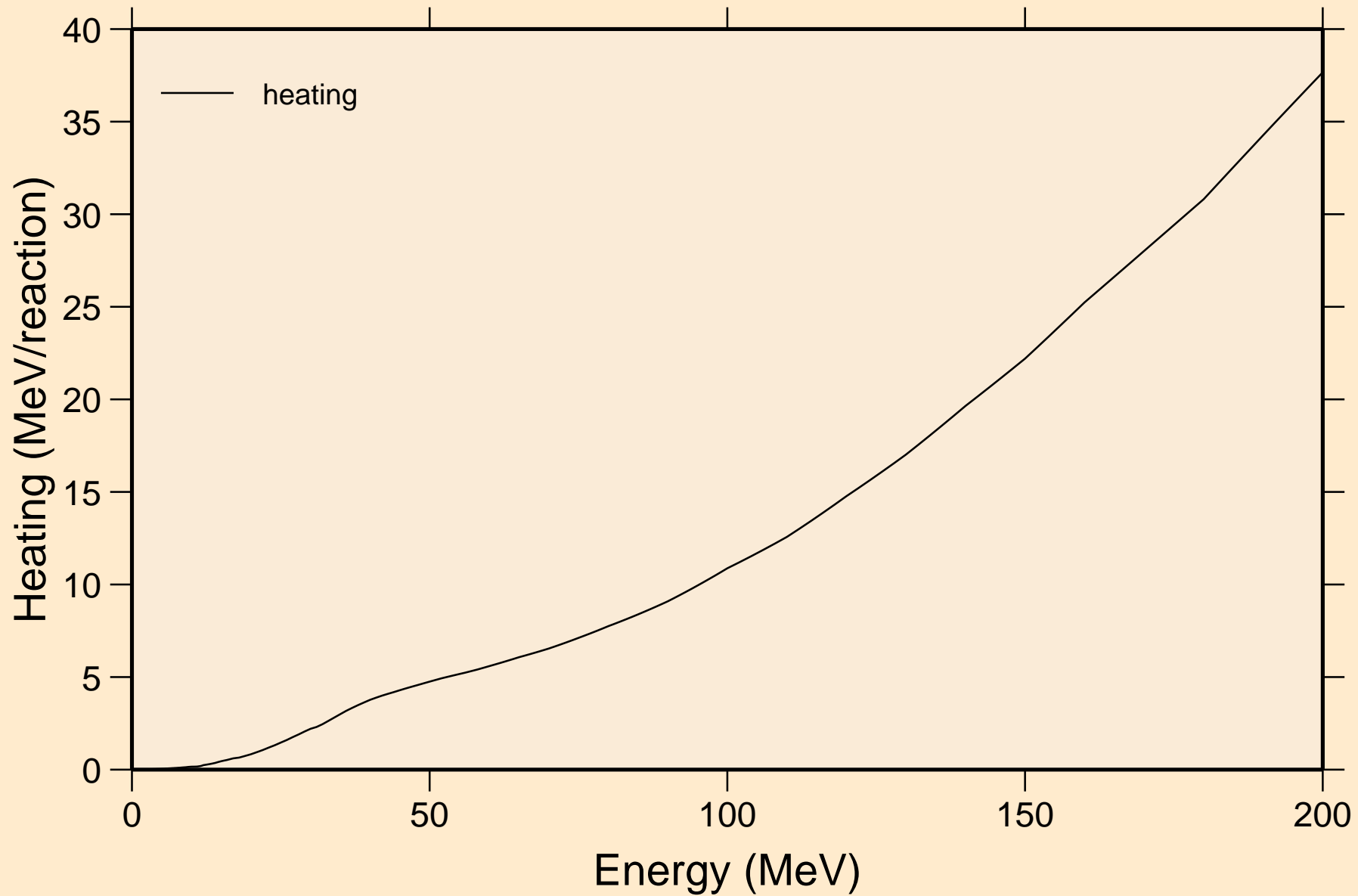
## Non-threshold reactions



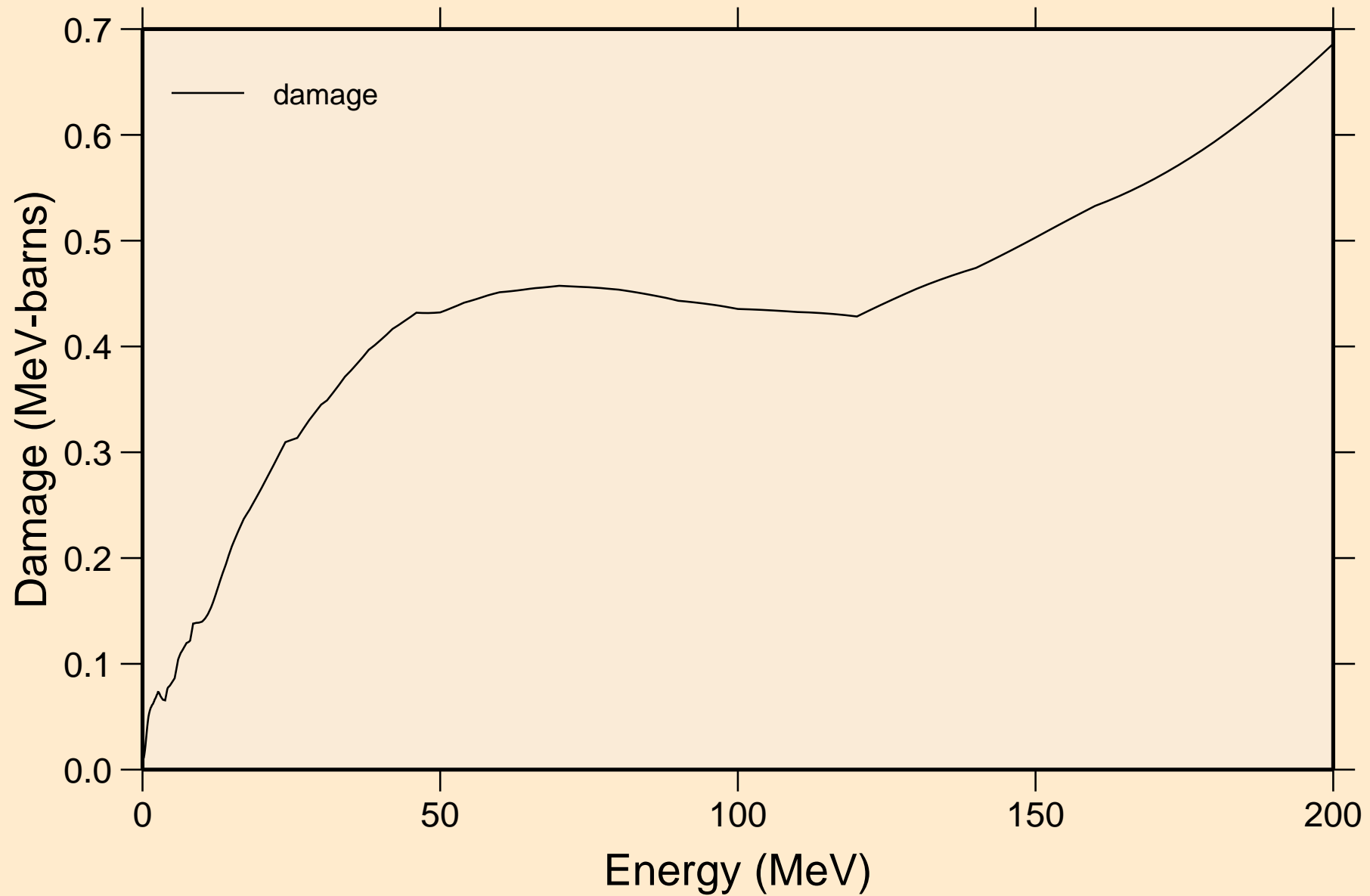
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



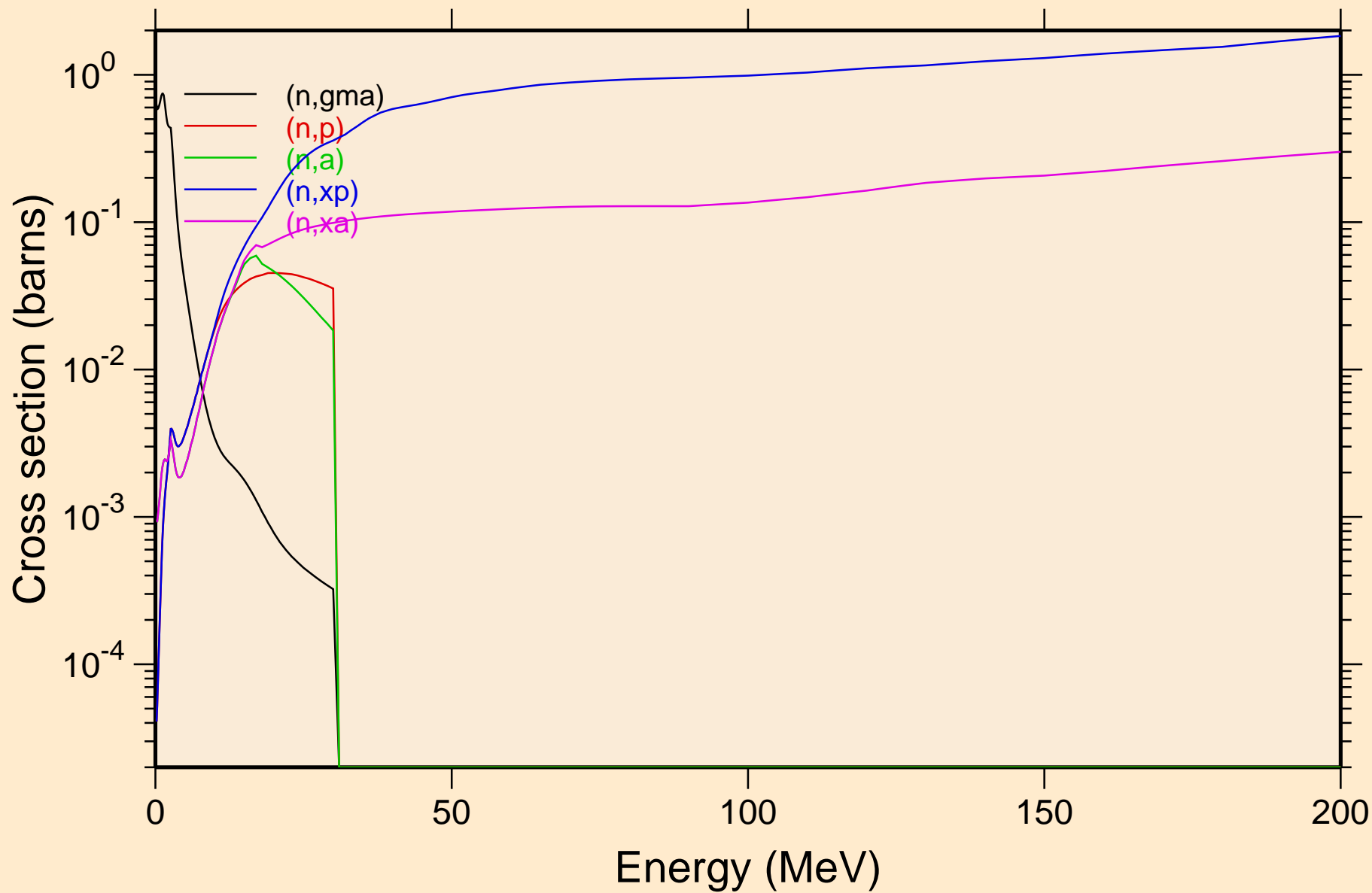
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

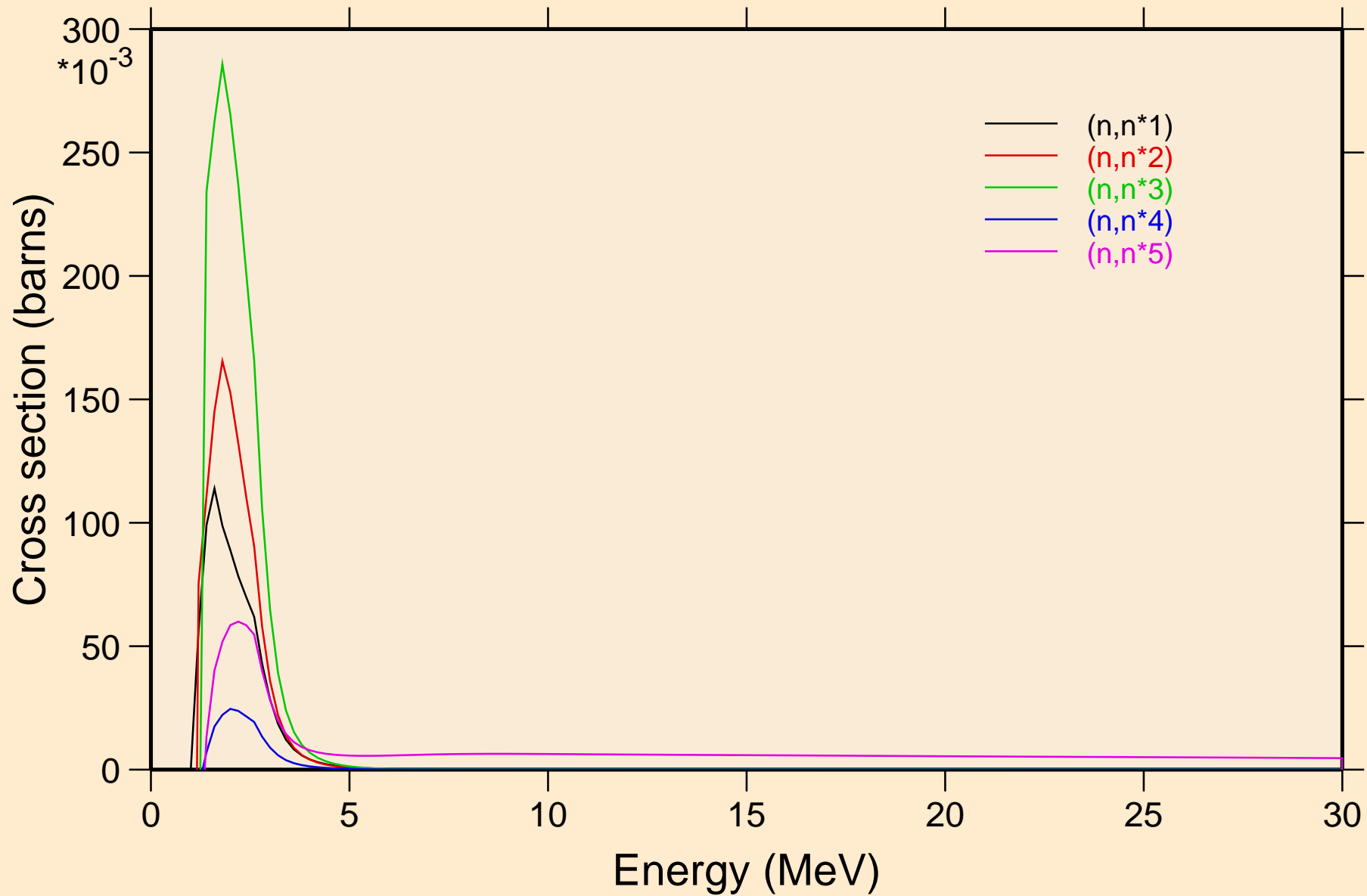


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

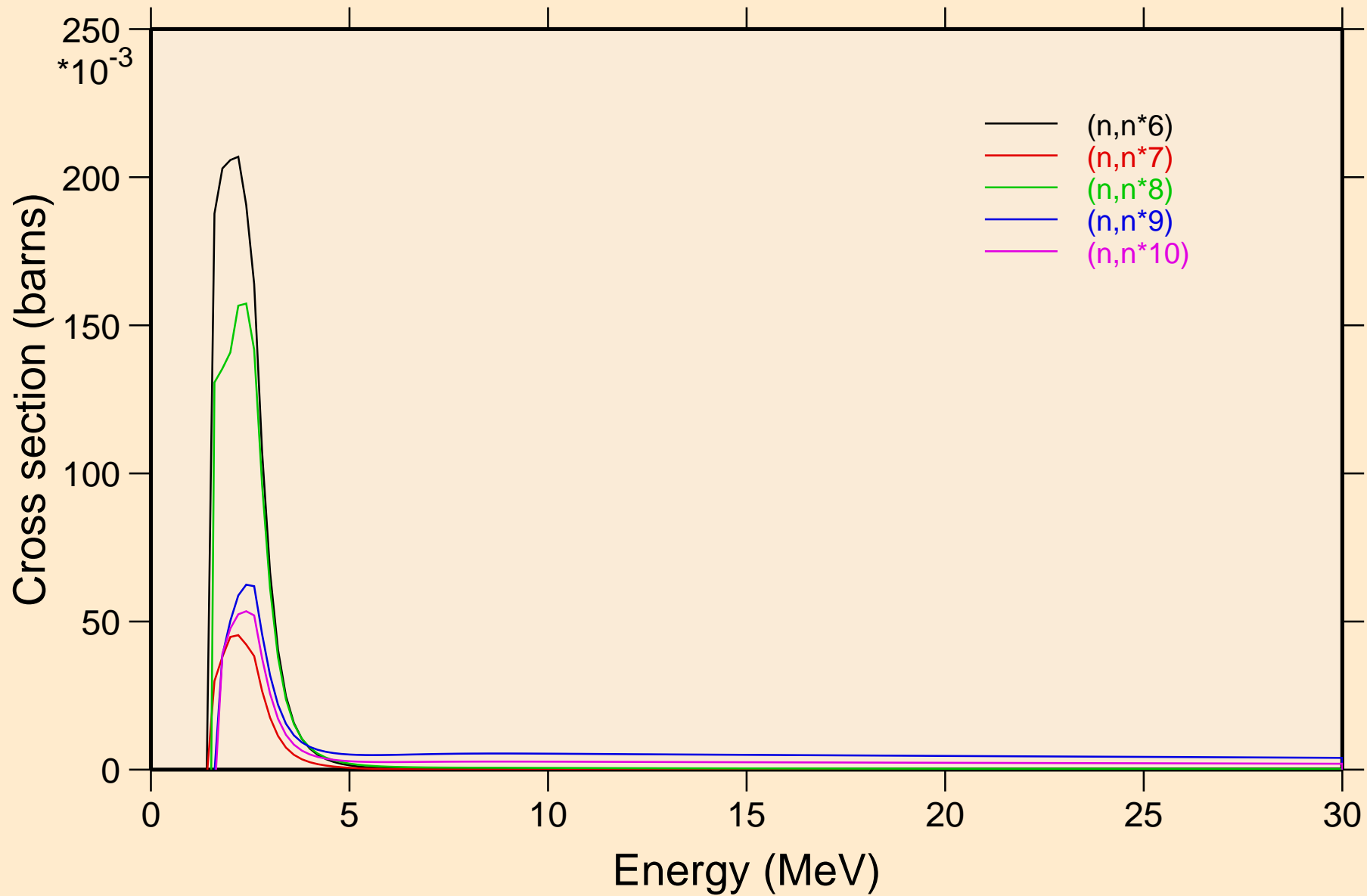




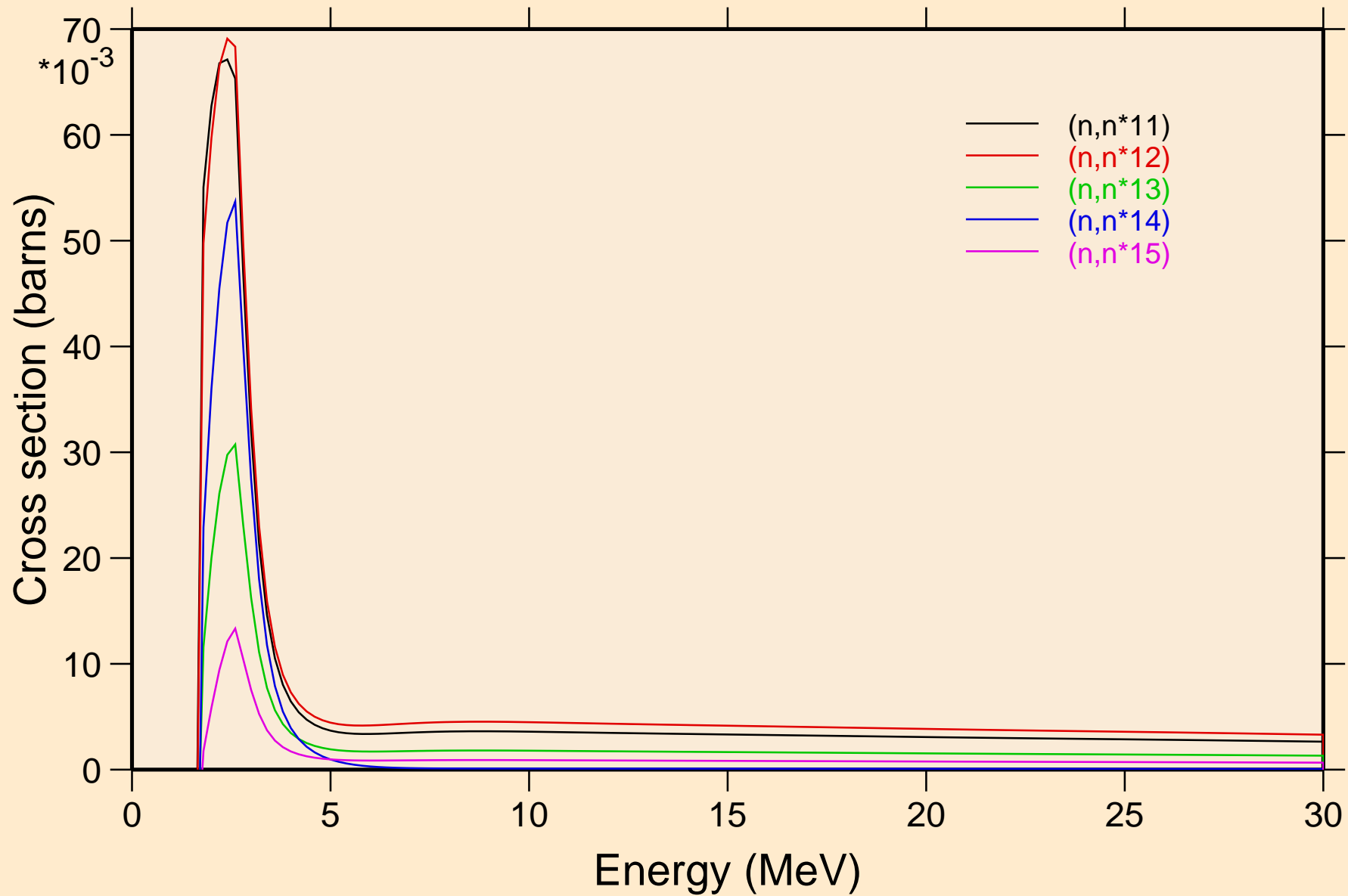
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



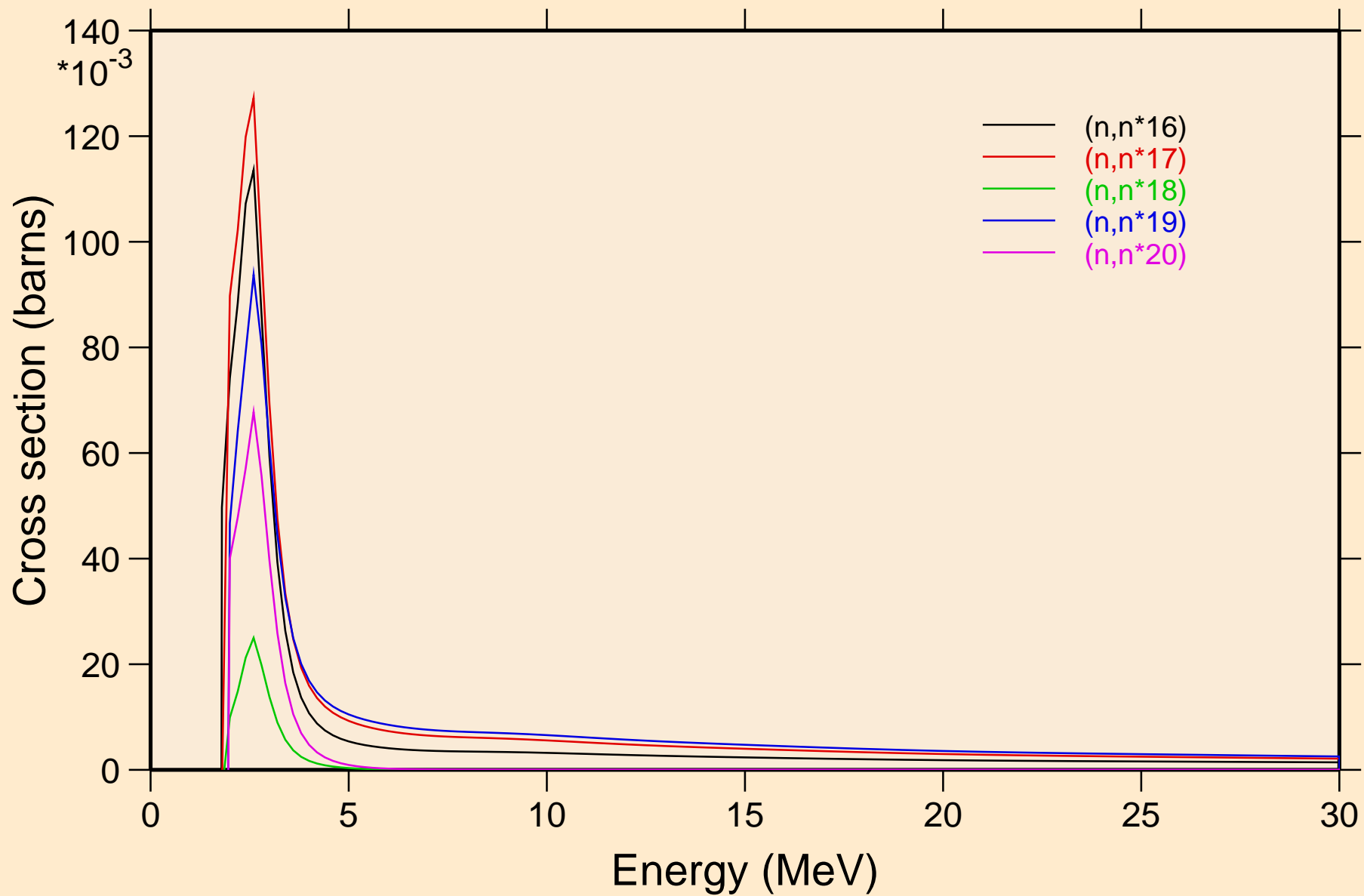
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



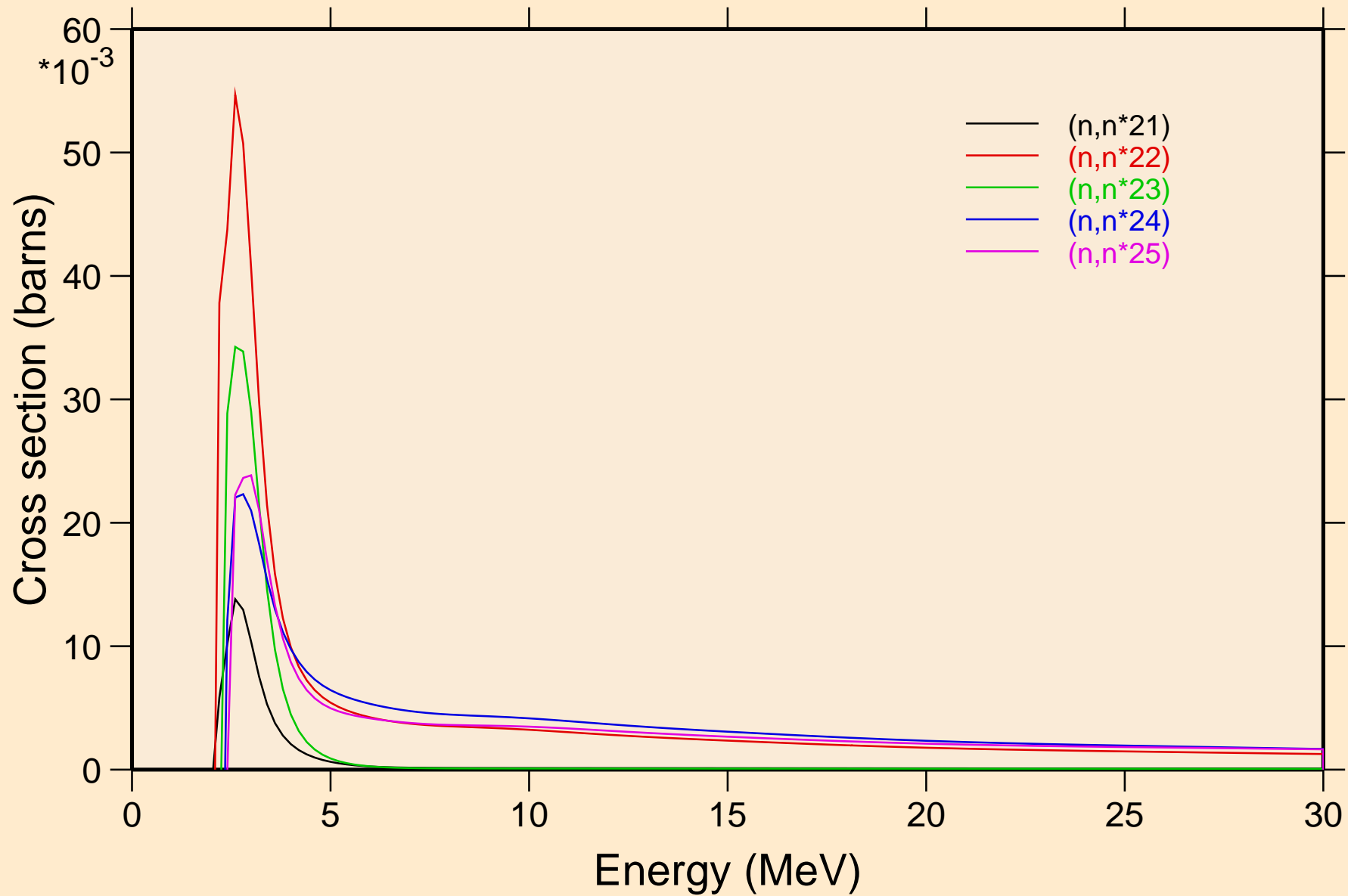
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



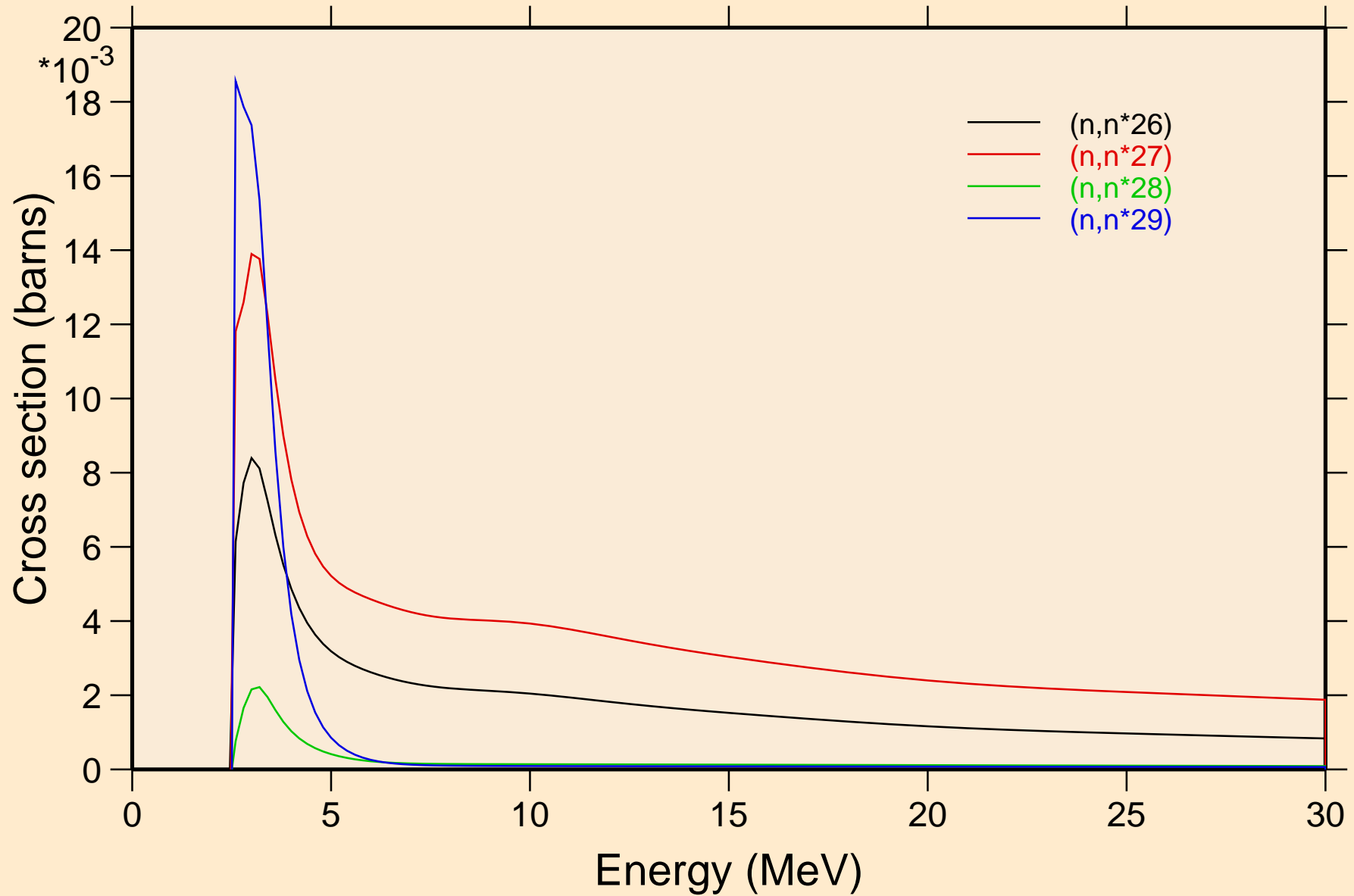
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

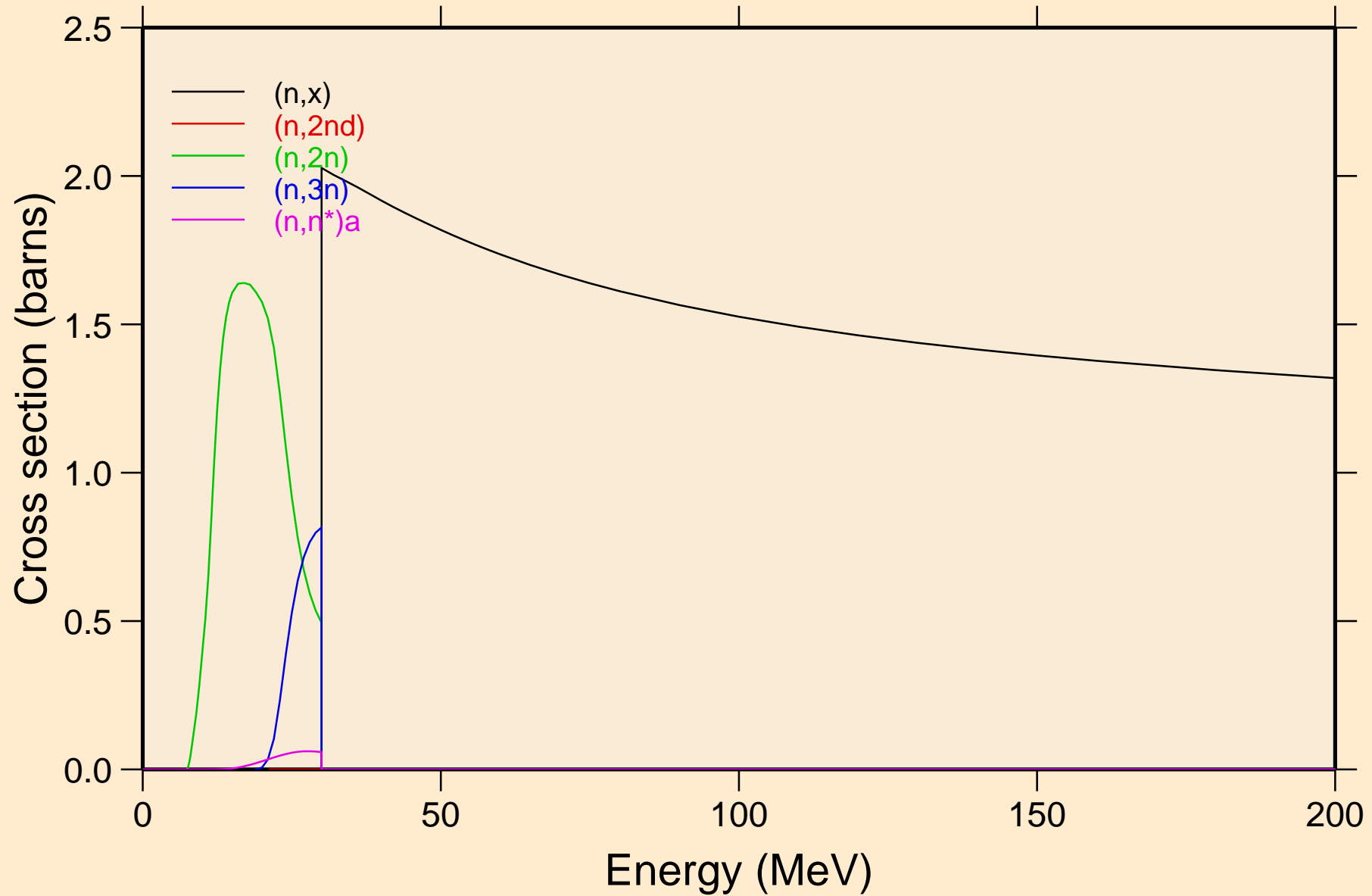


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



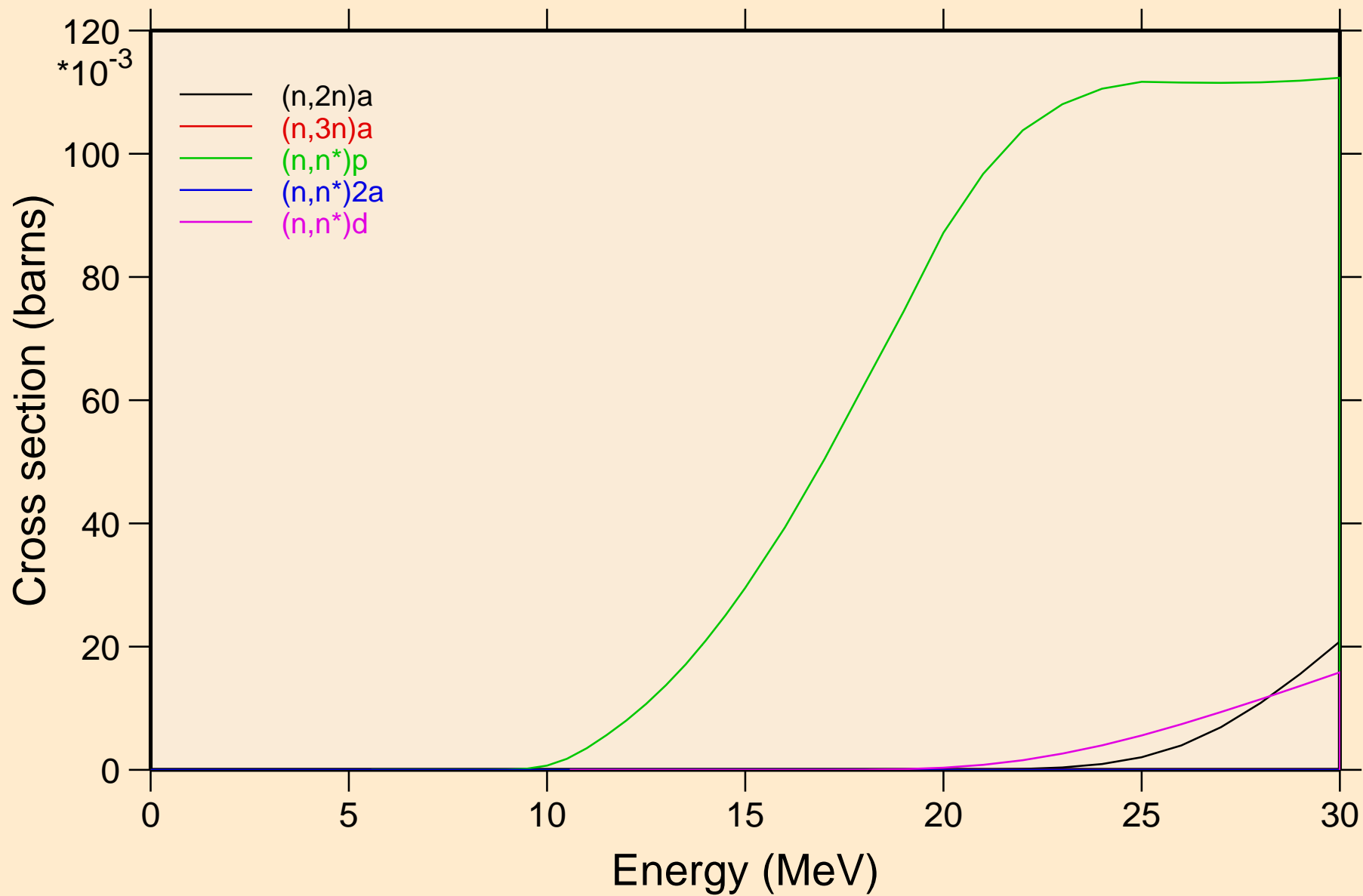
# GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions



# GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

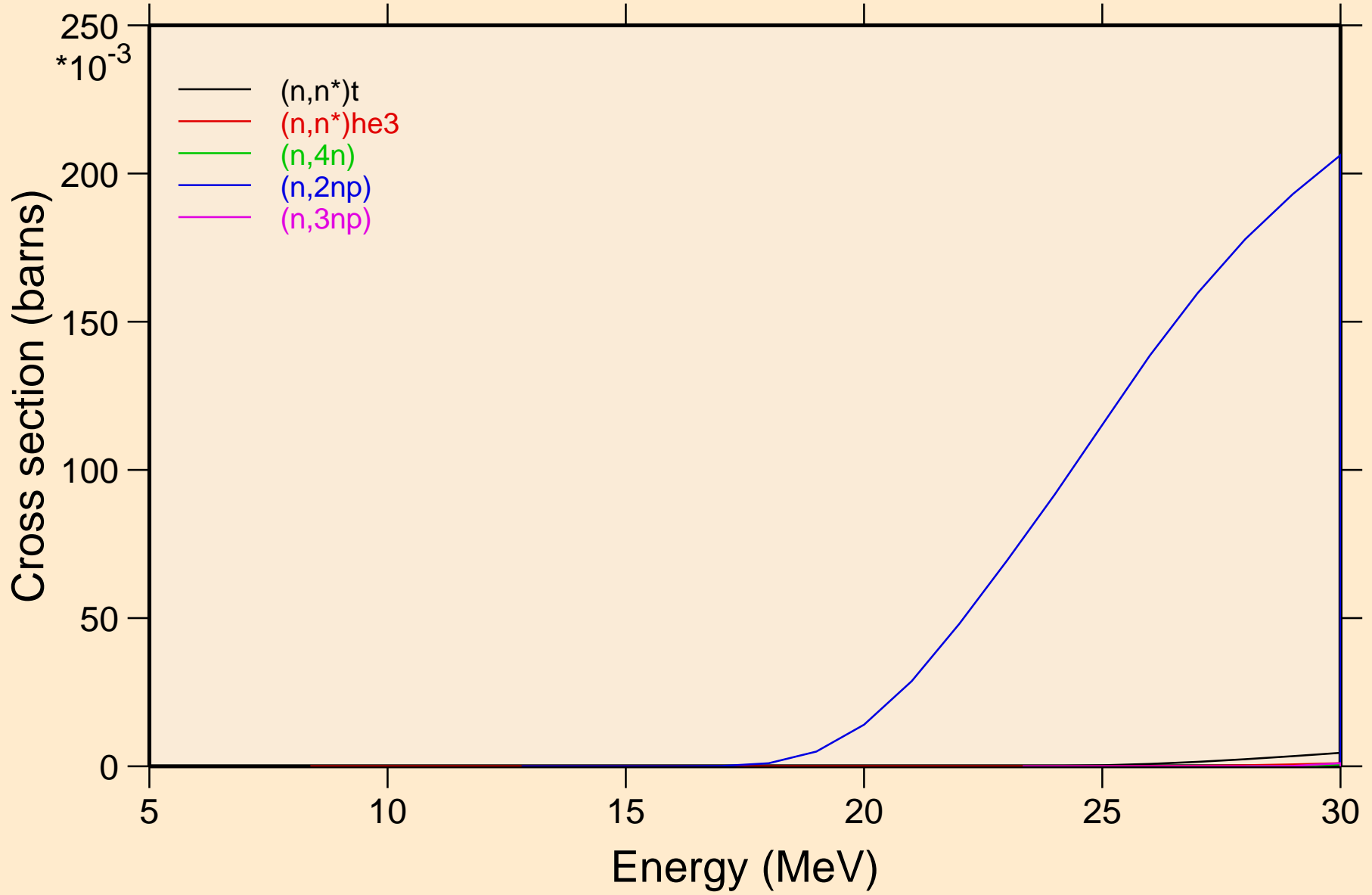
## Threshold reactions



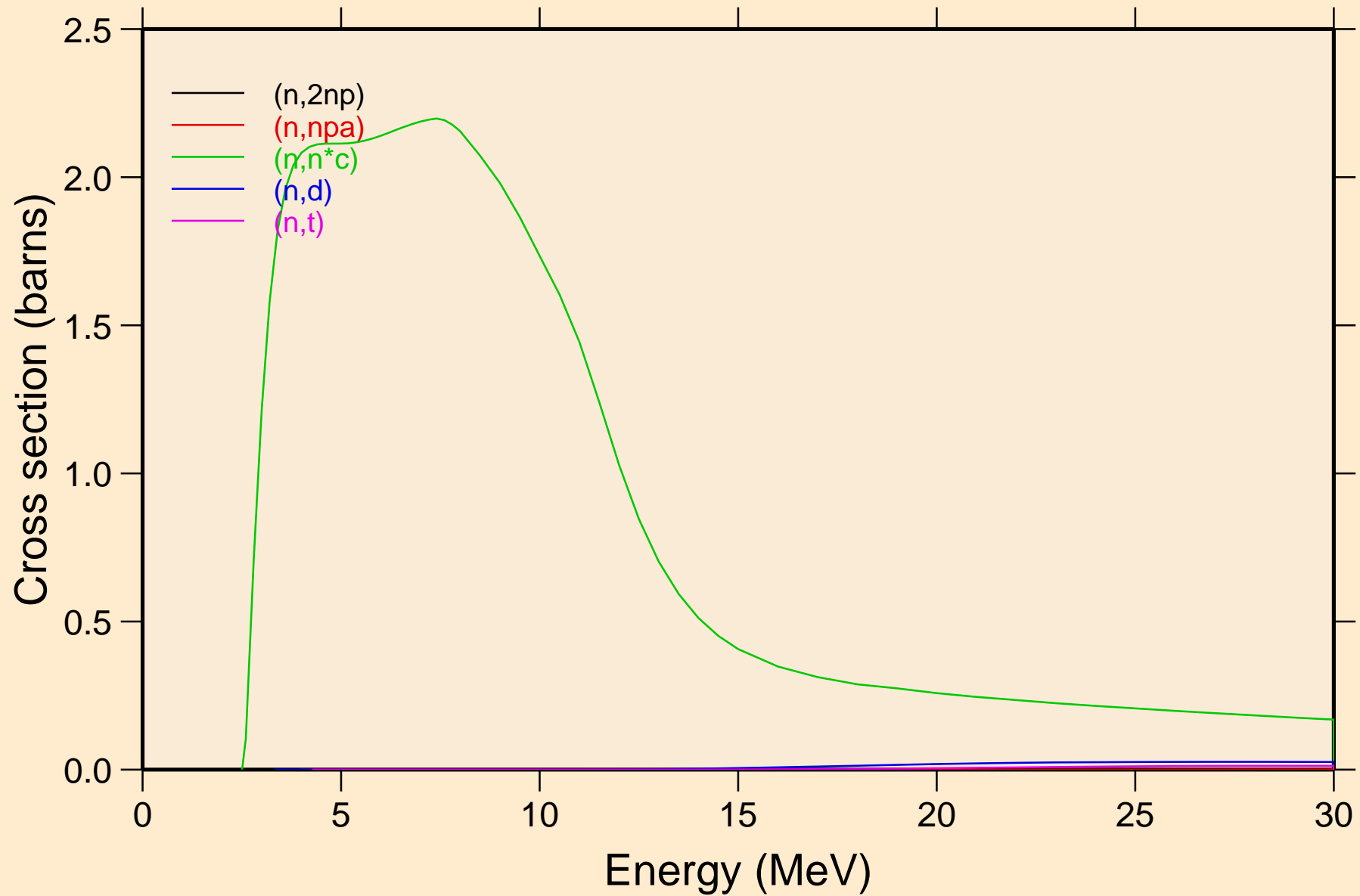


# GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

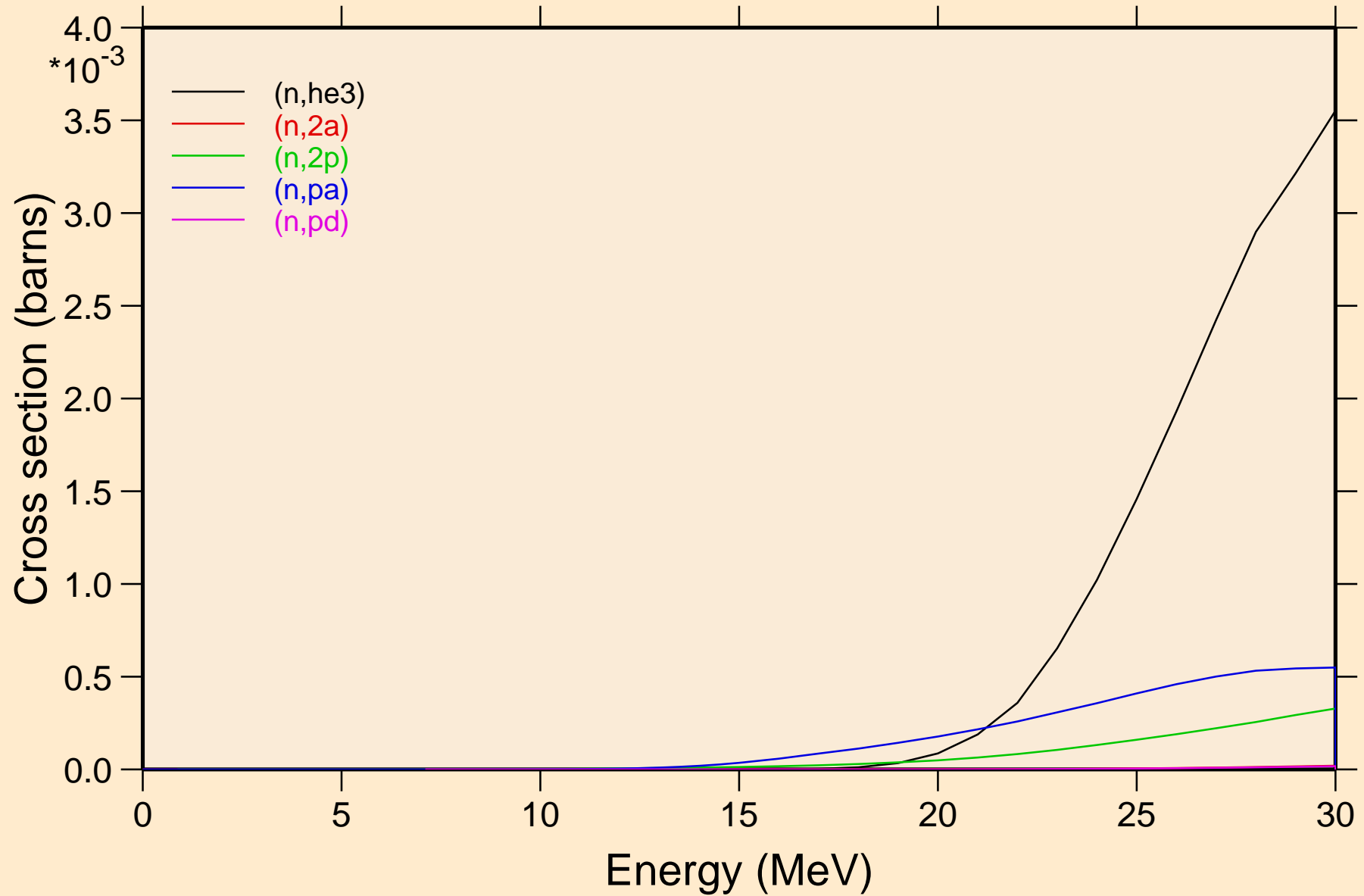


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

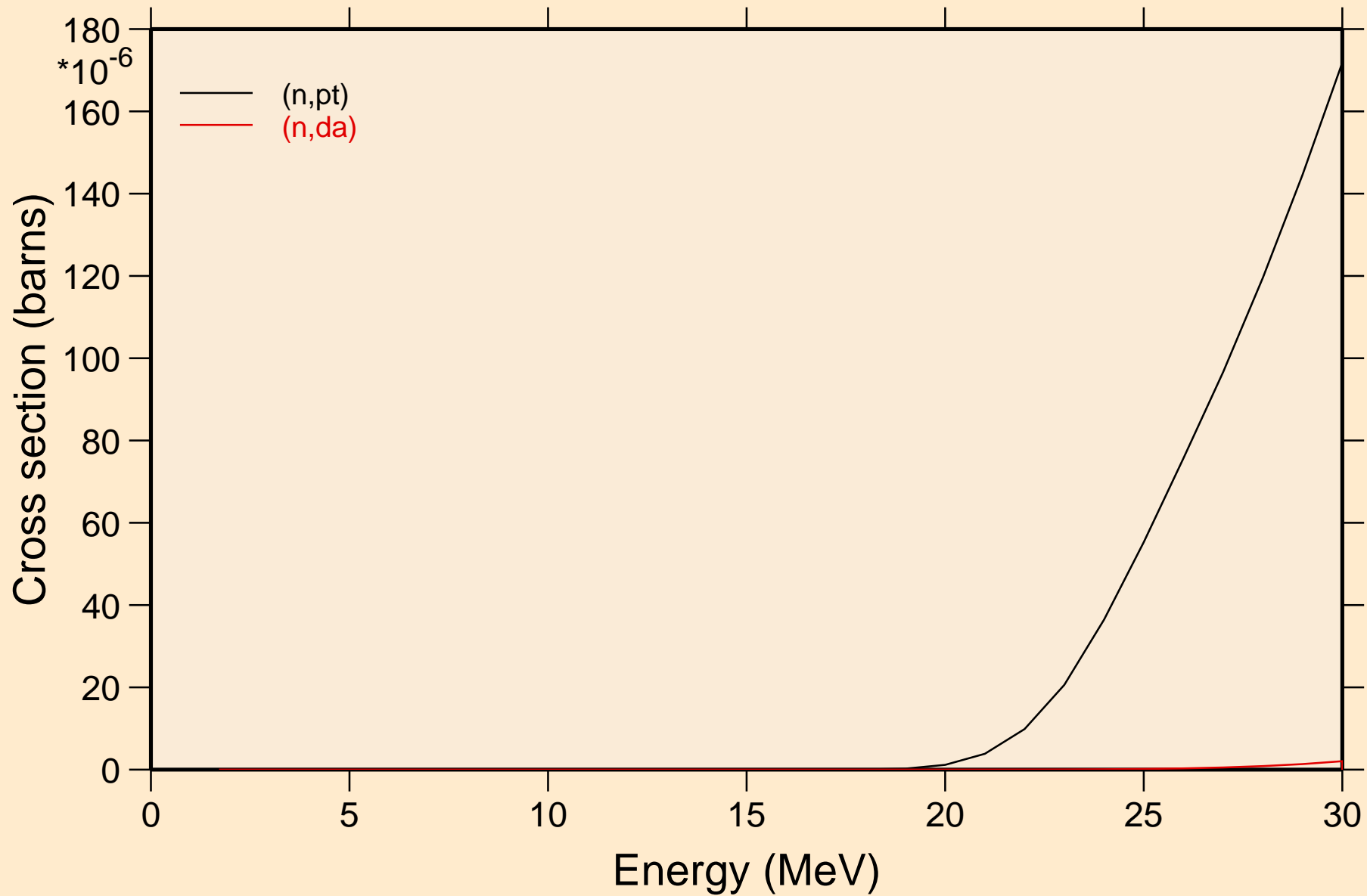


# GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

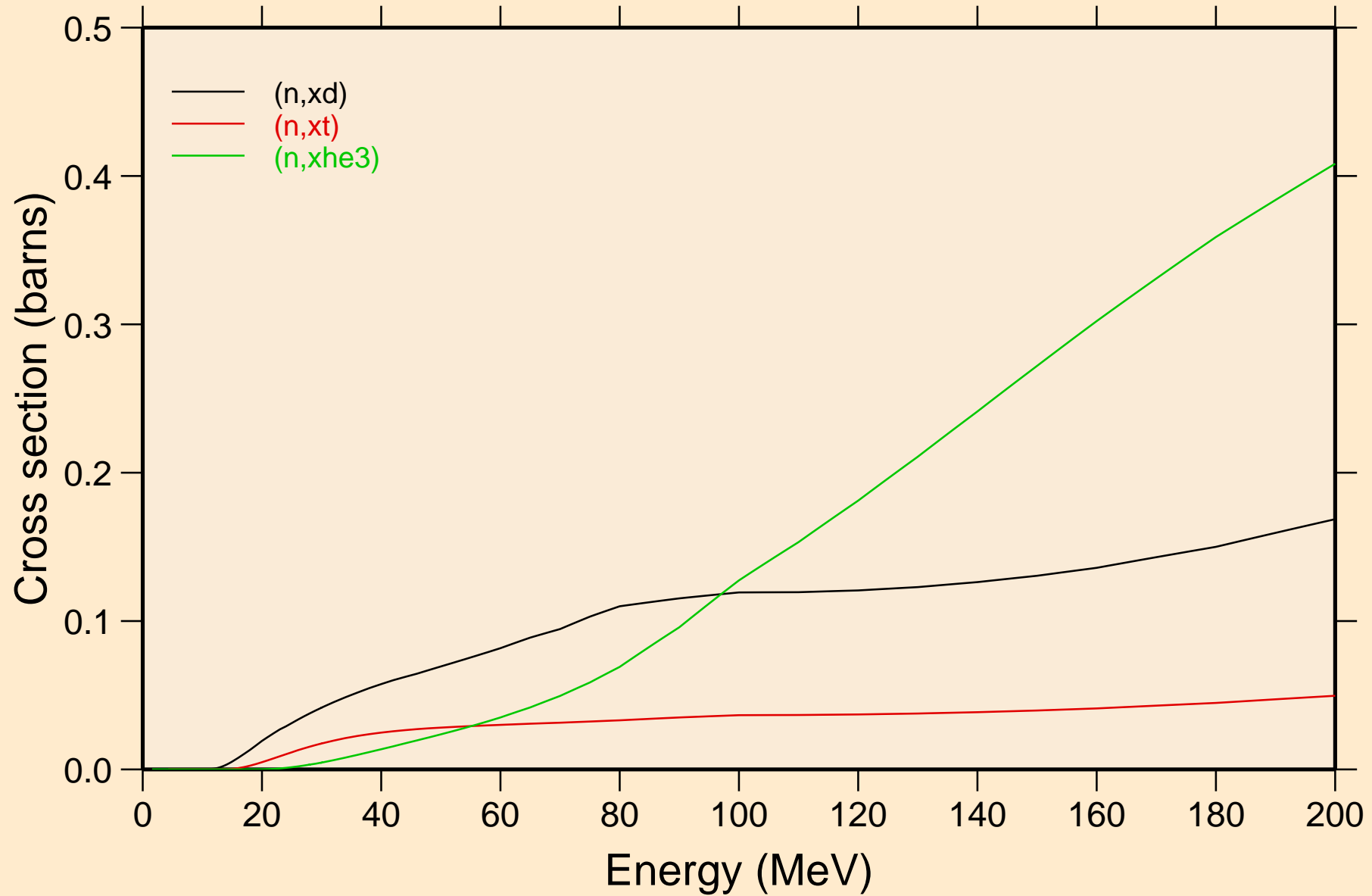
## Threshold reactions



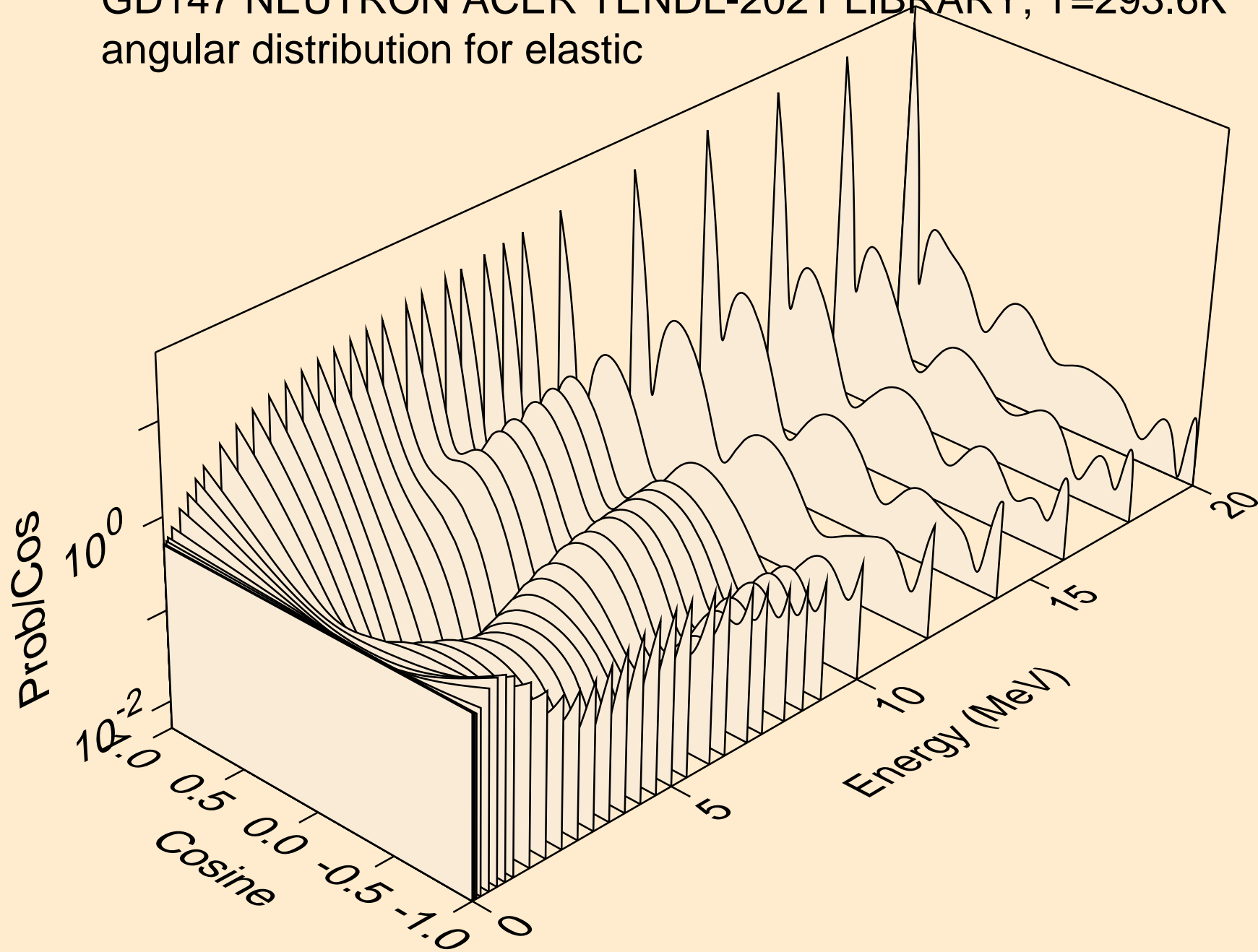
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



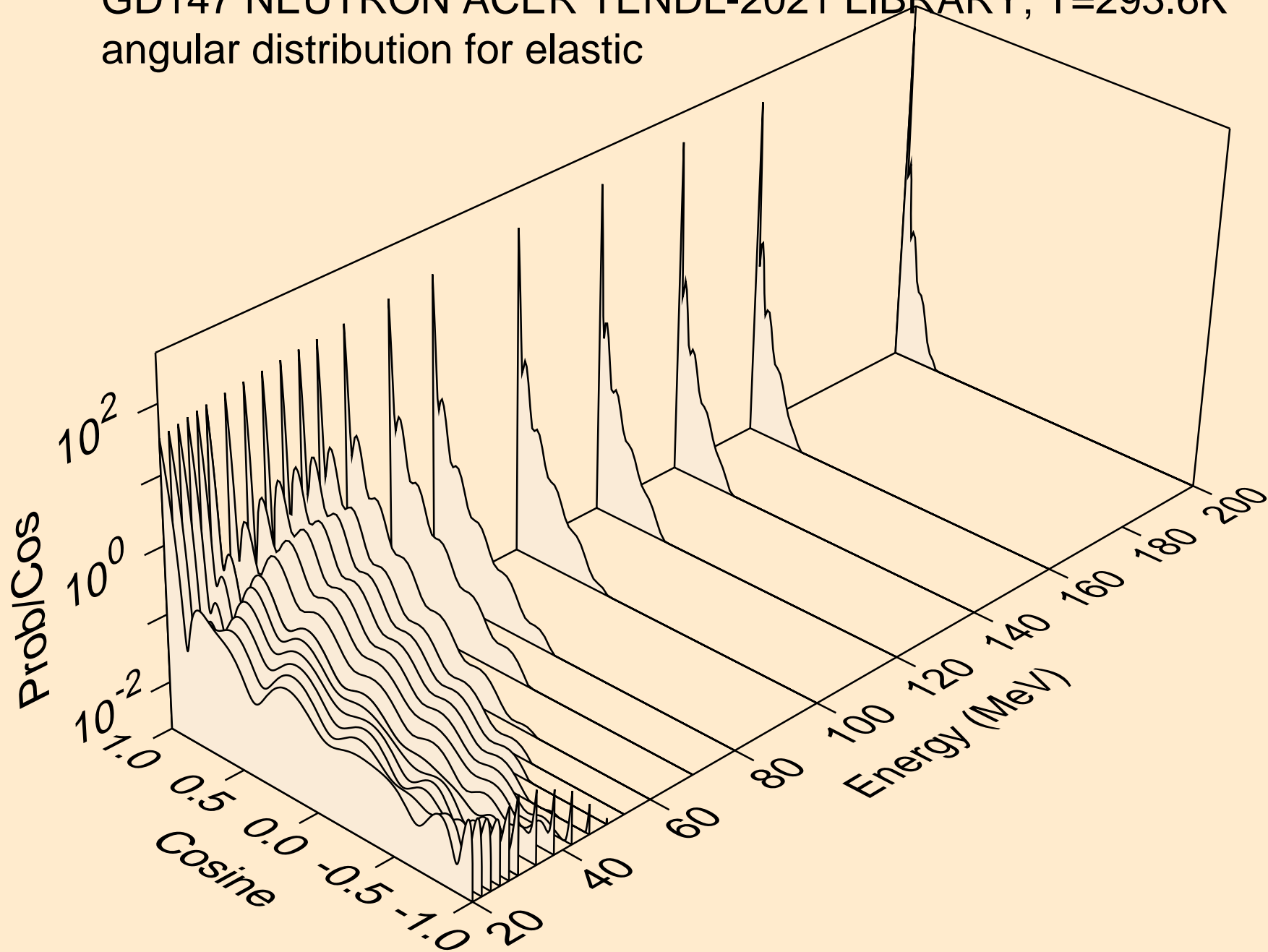
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



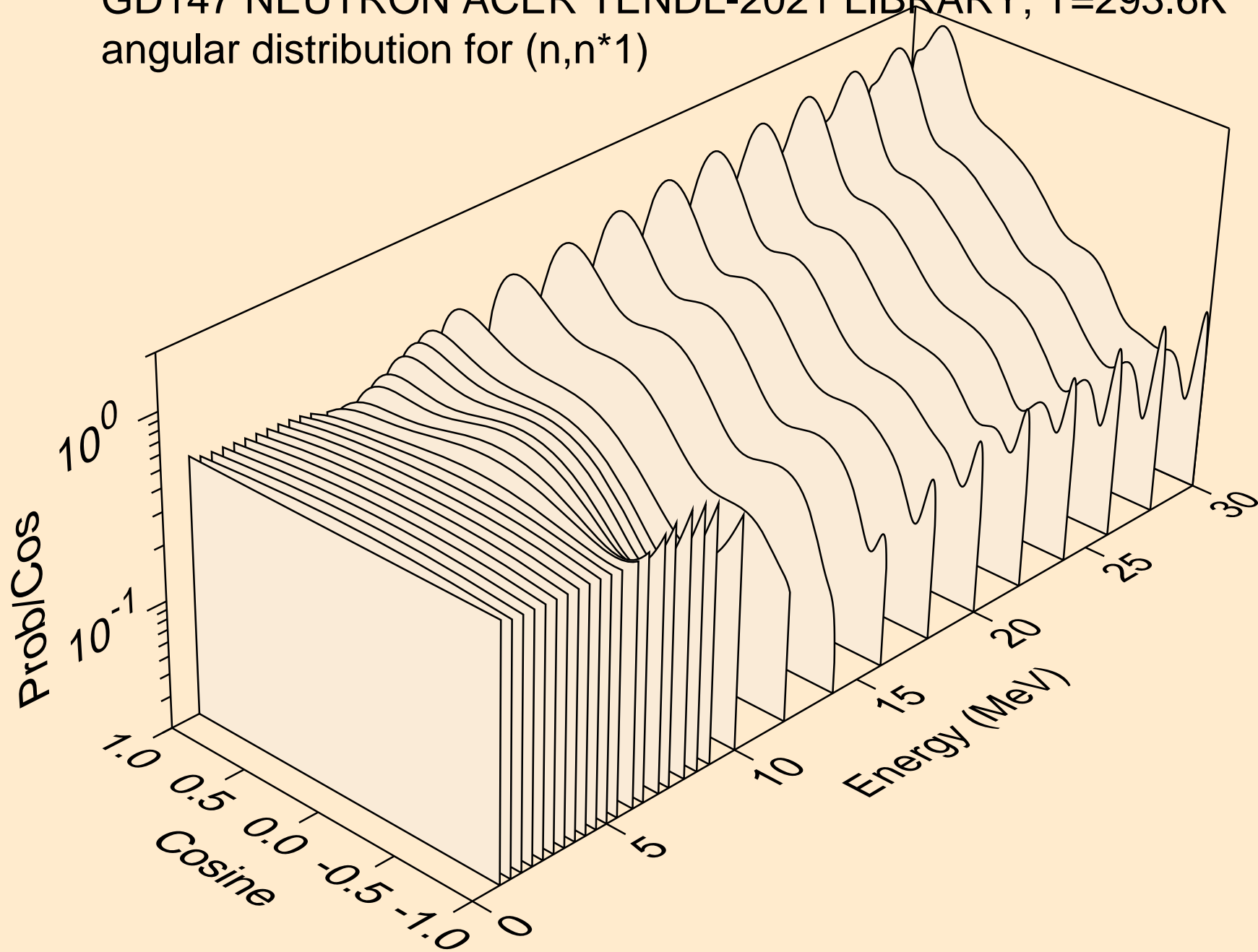
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

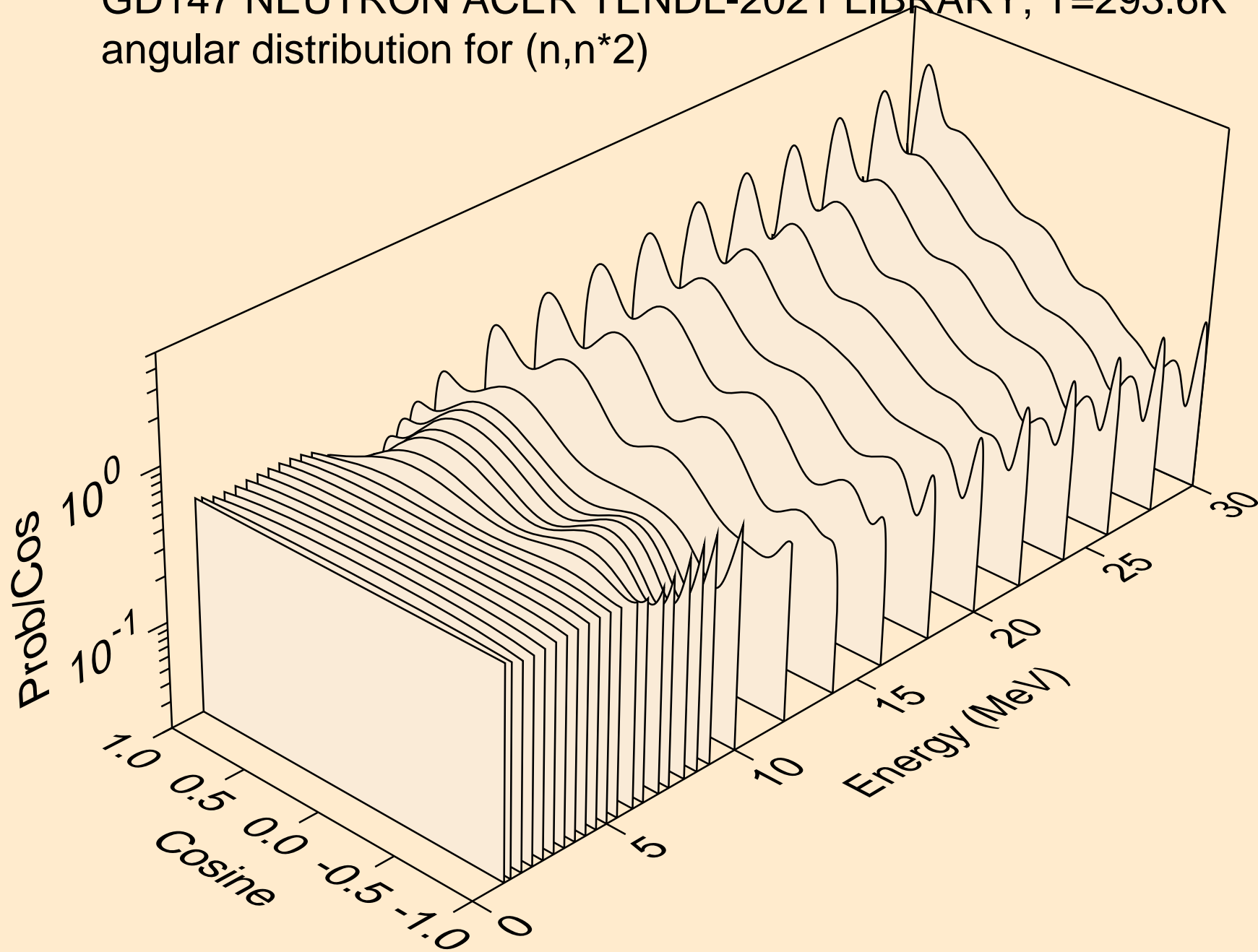


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

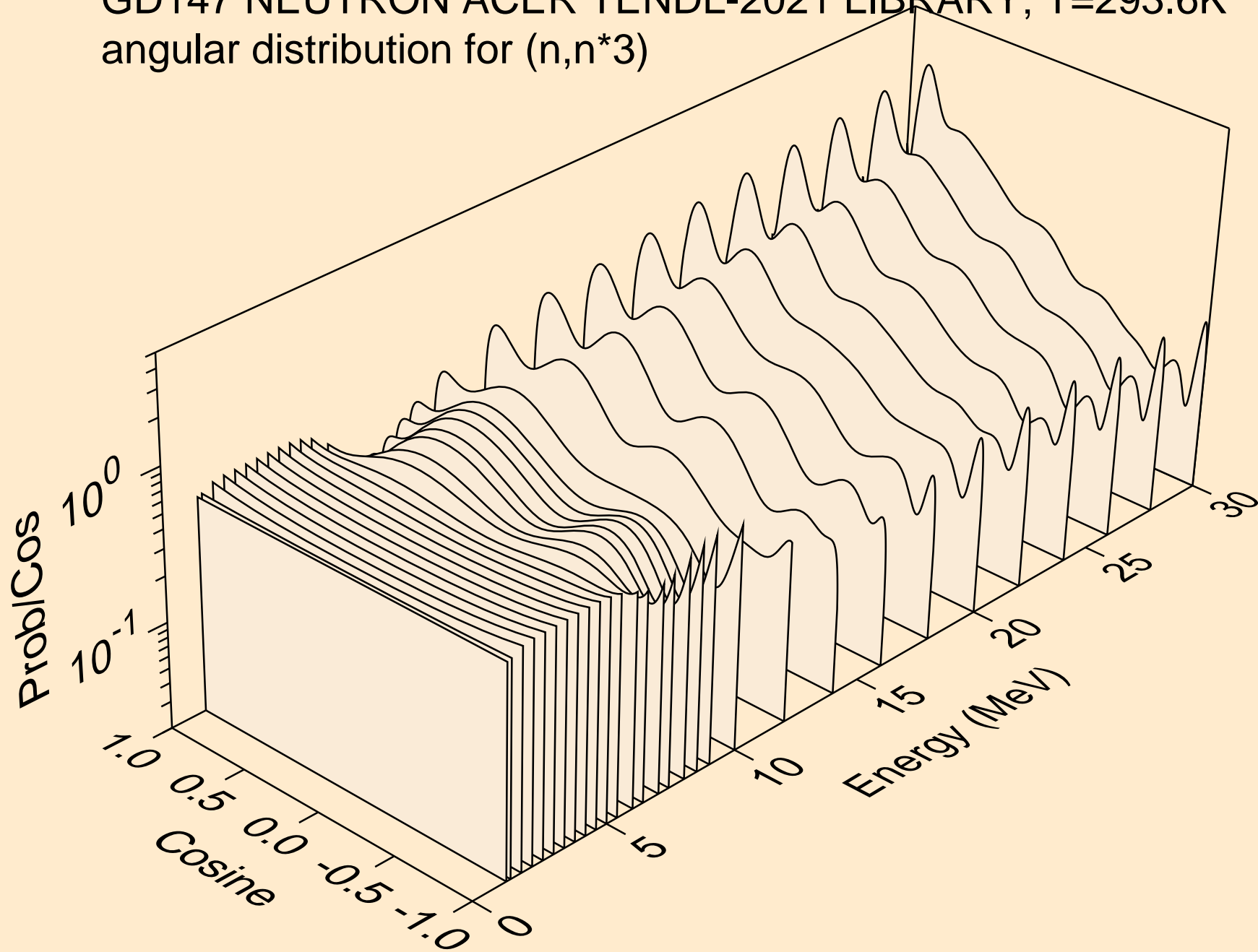




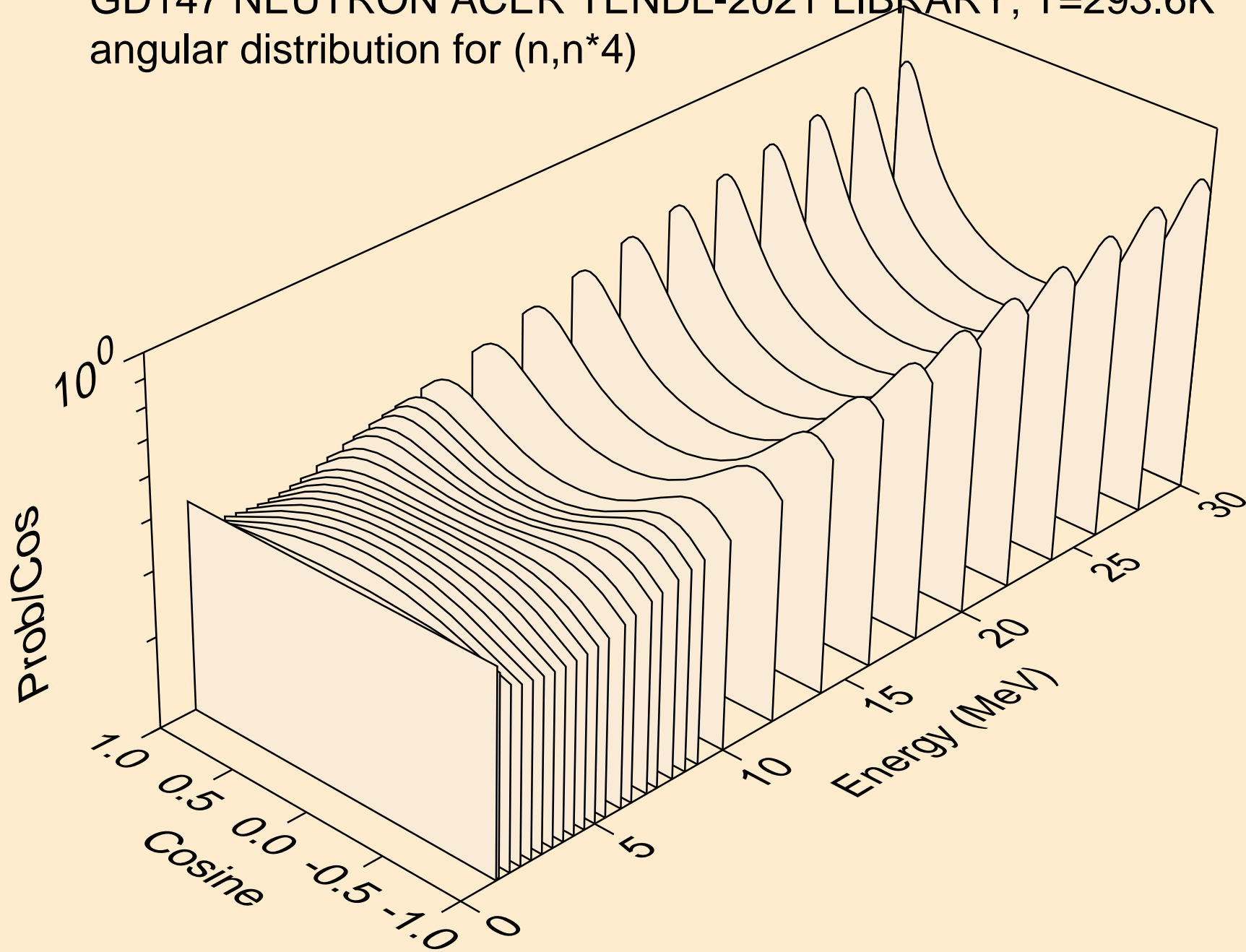
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



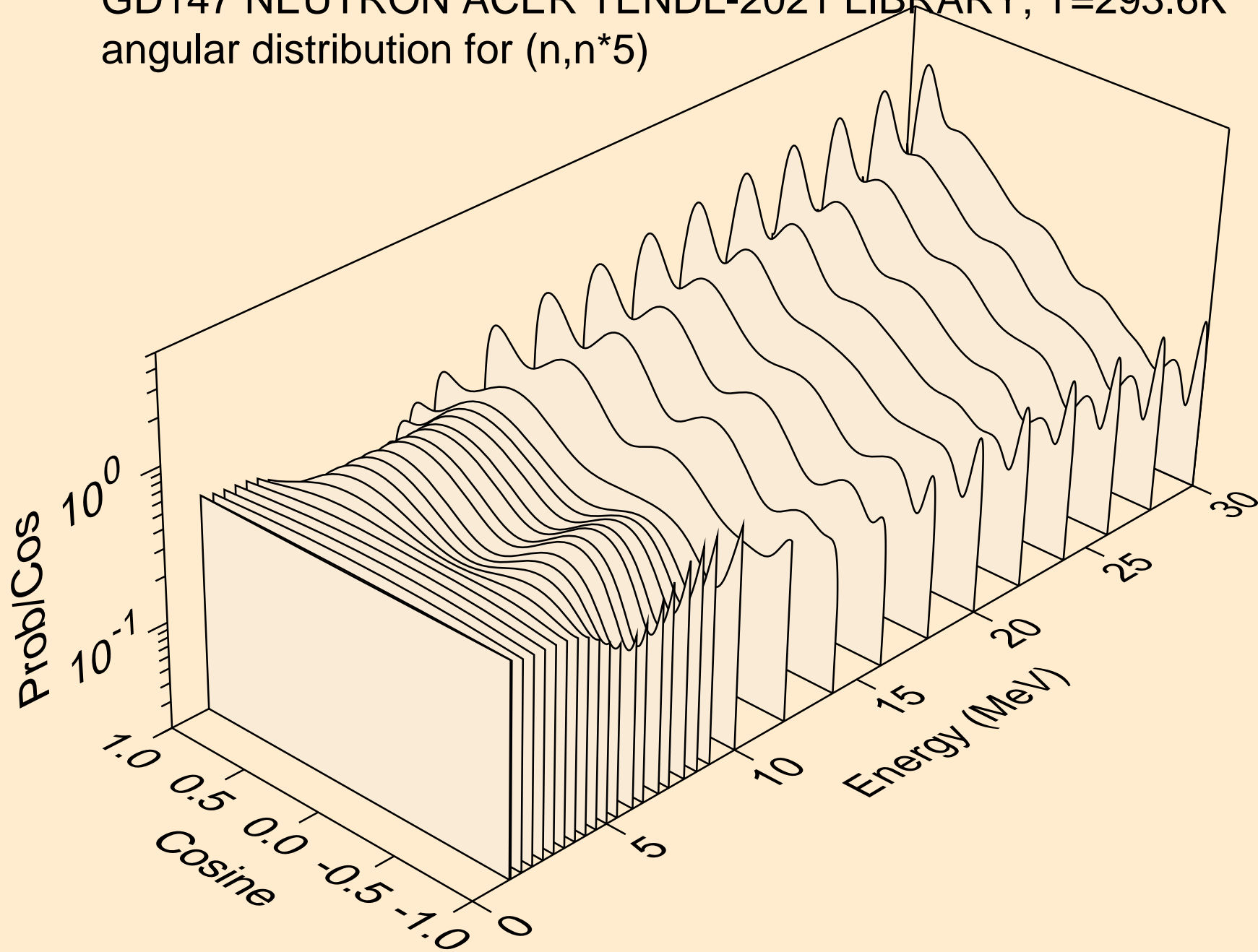
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angular distribution for (n,n\*3)



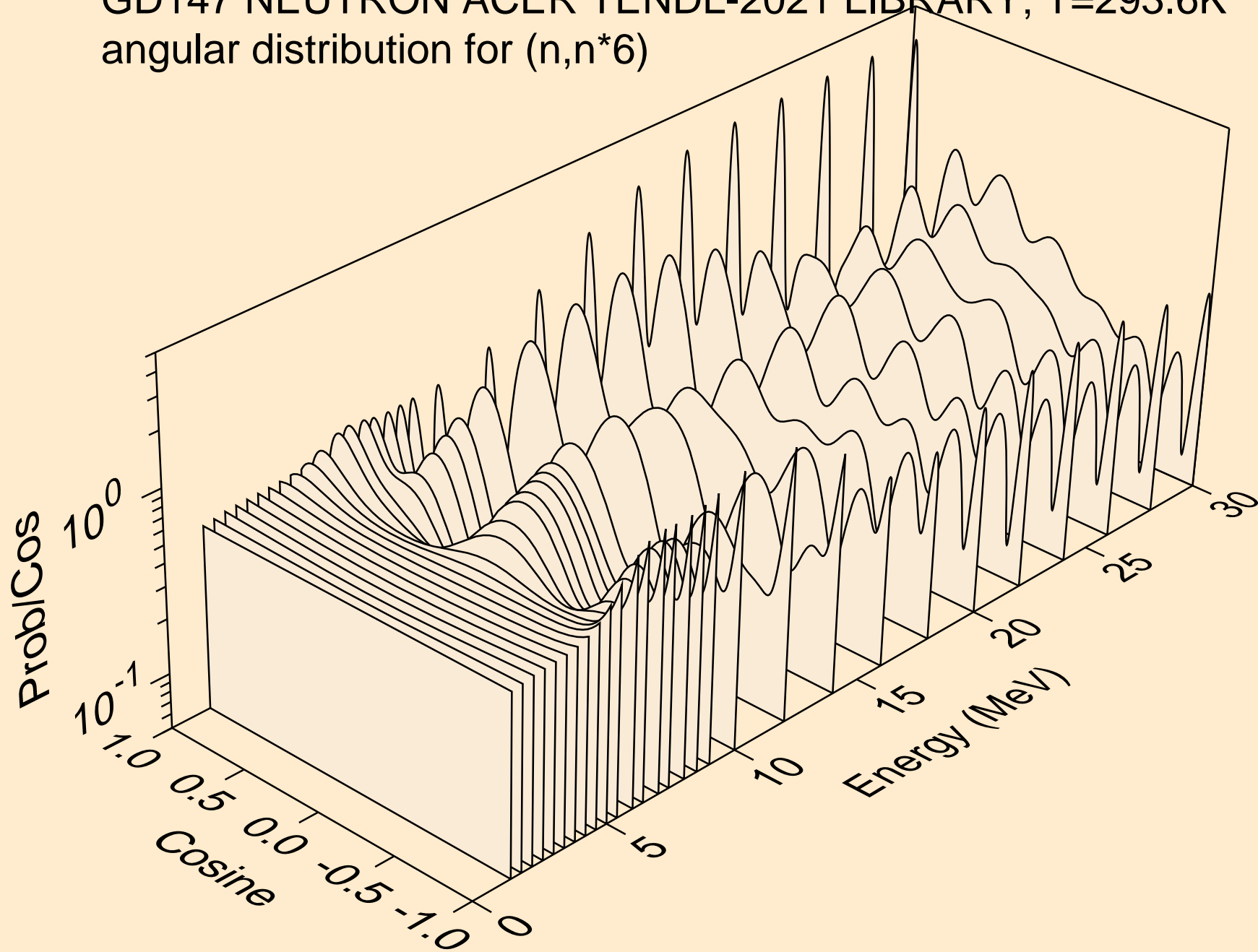
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



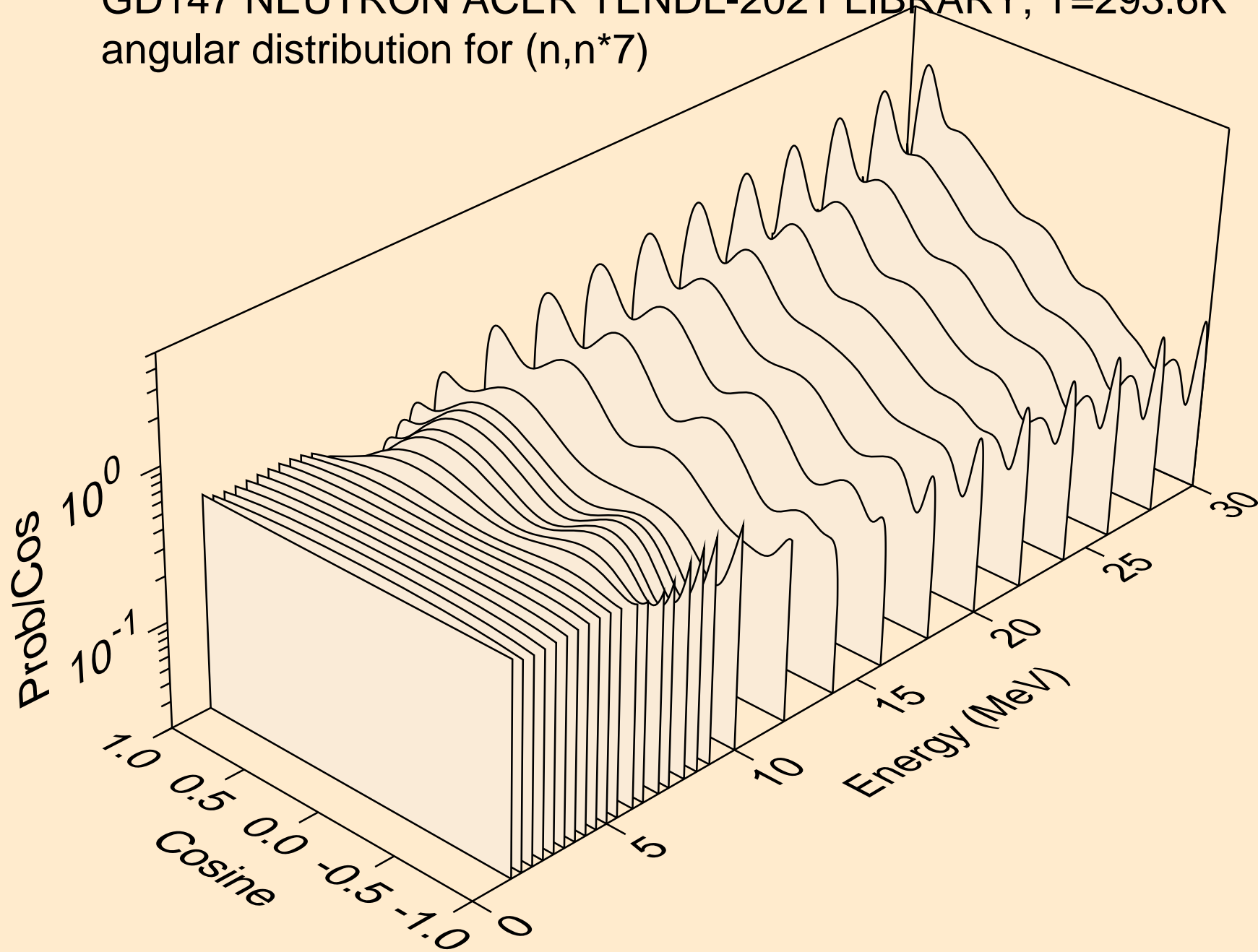
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angular distribution for (n,n\*5)



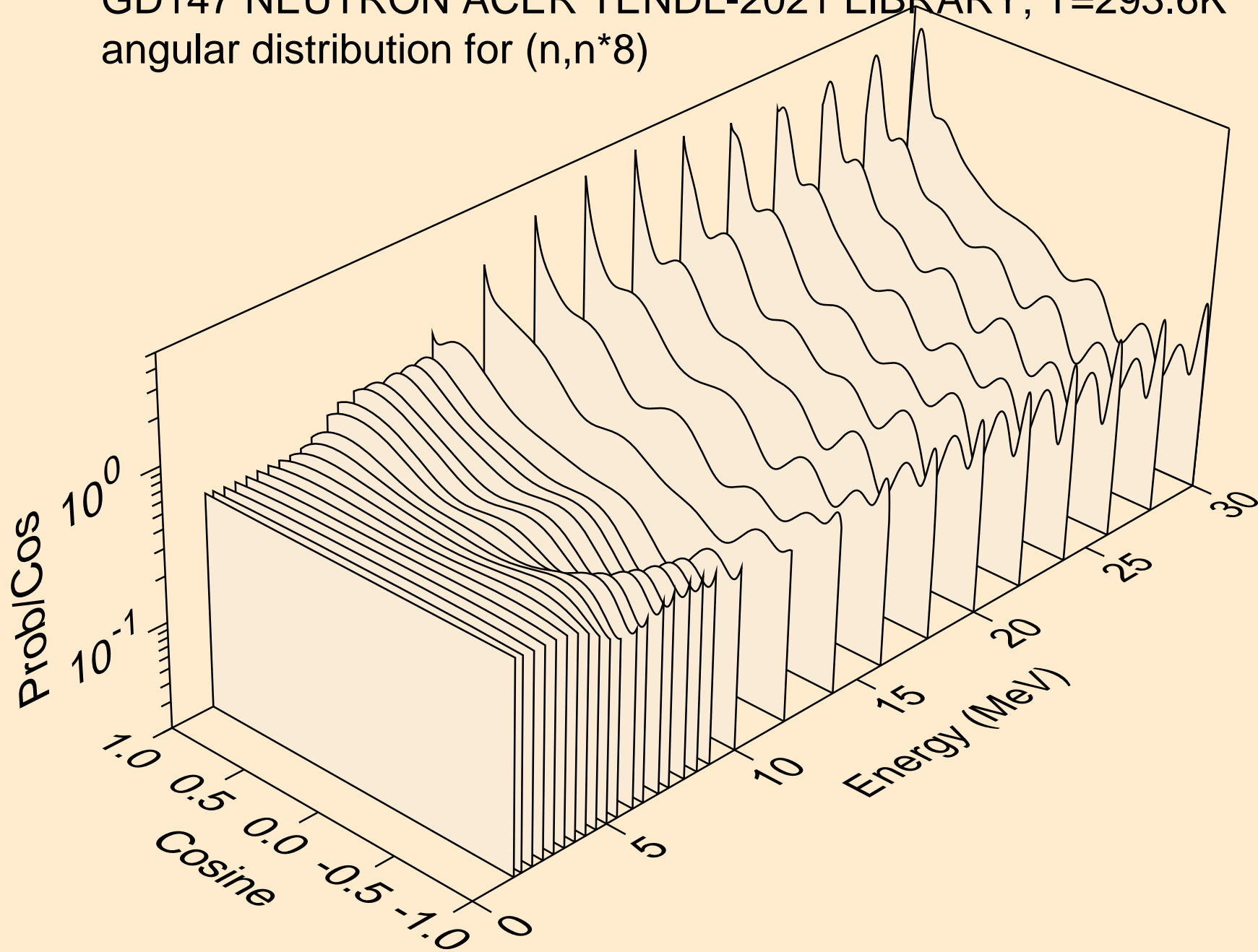
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angular distribution for (n,n\*6)



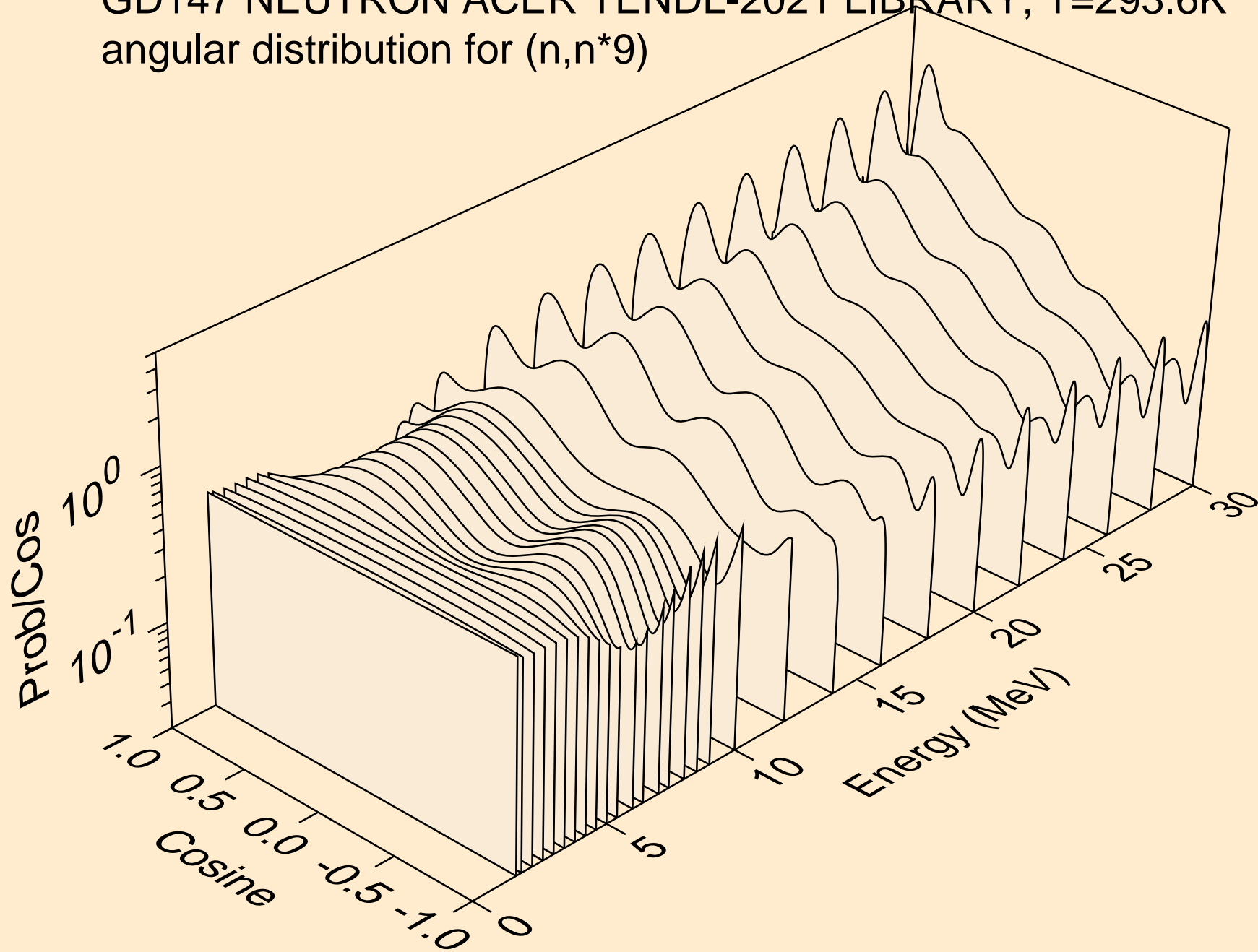
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

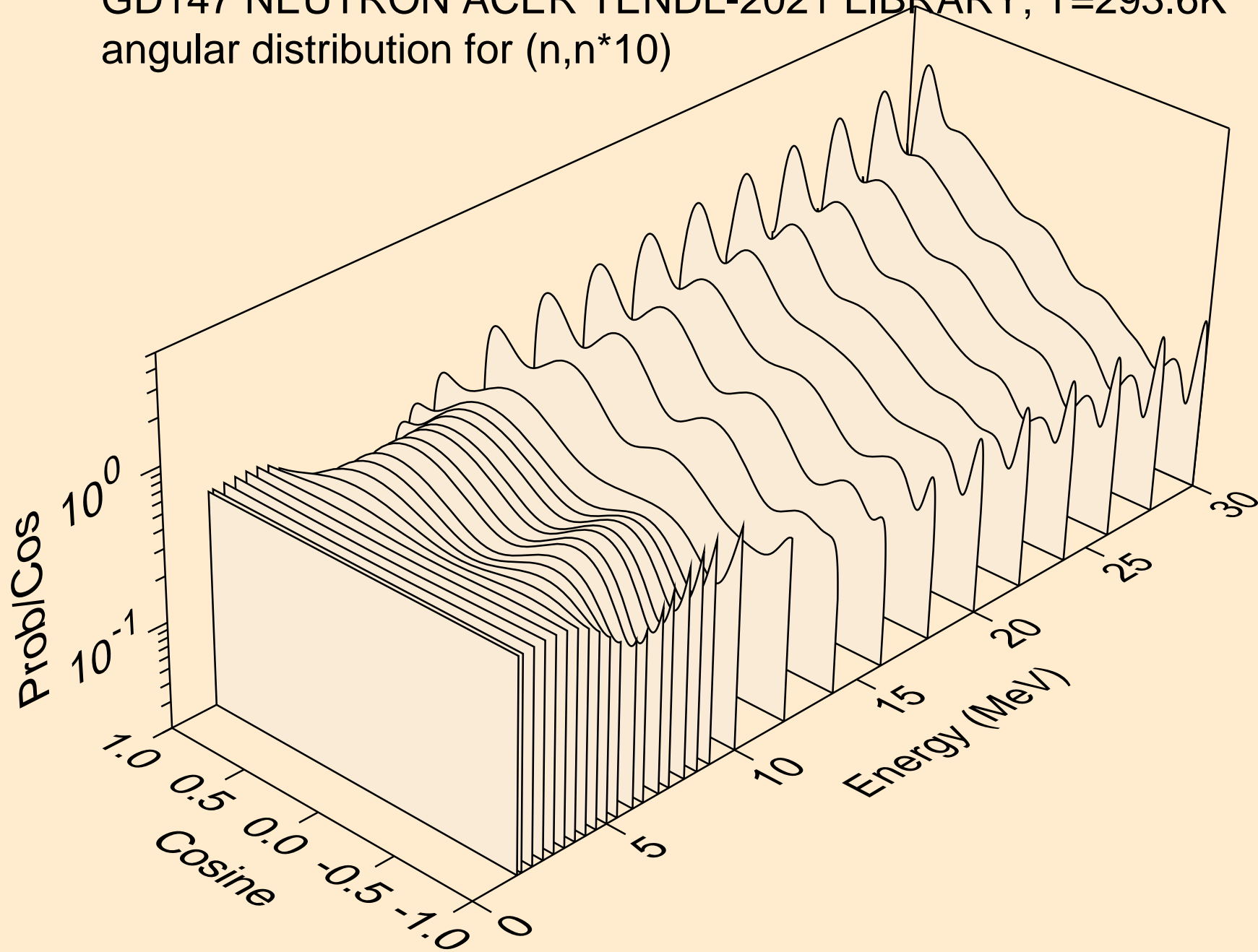


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

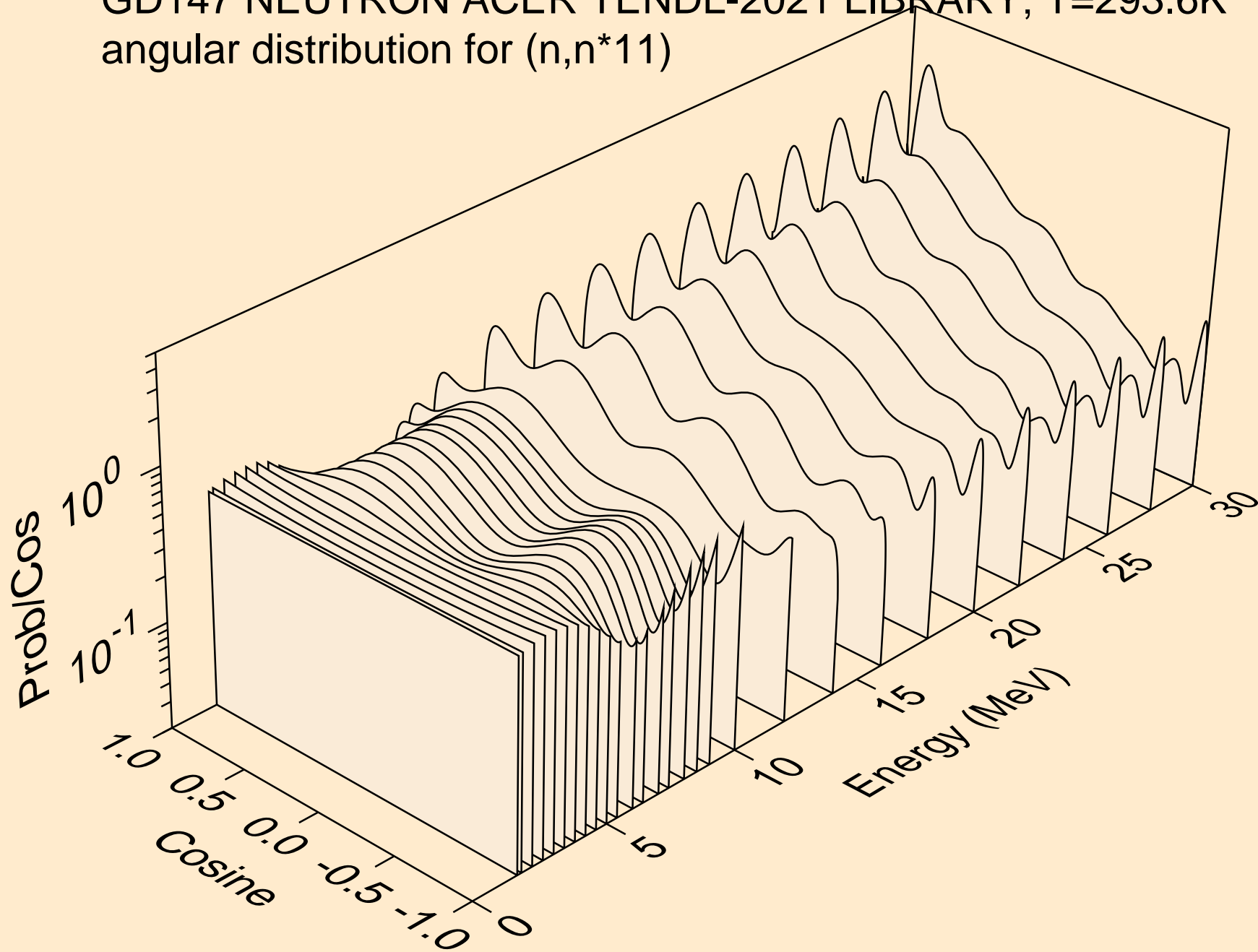




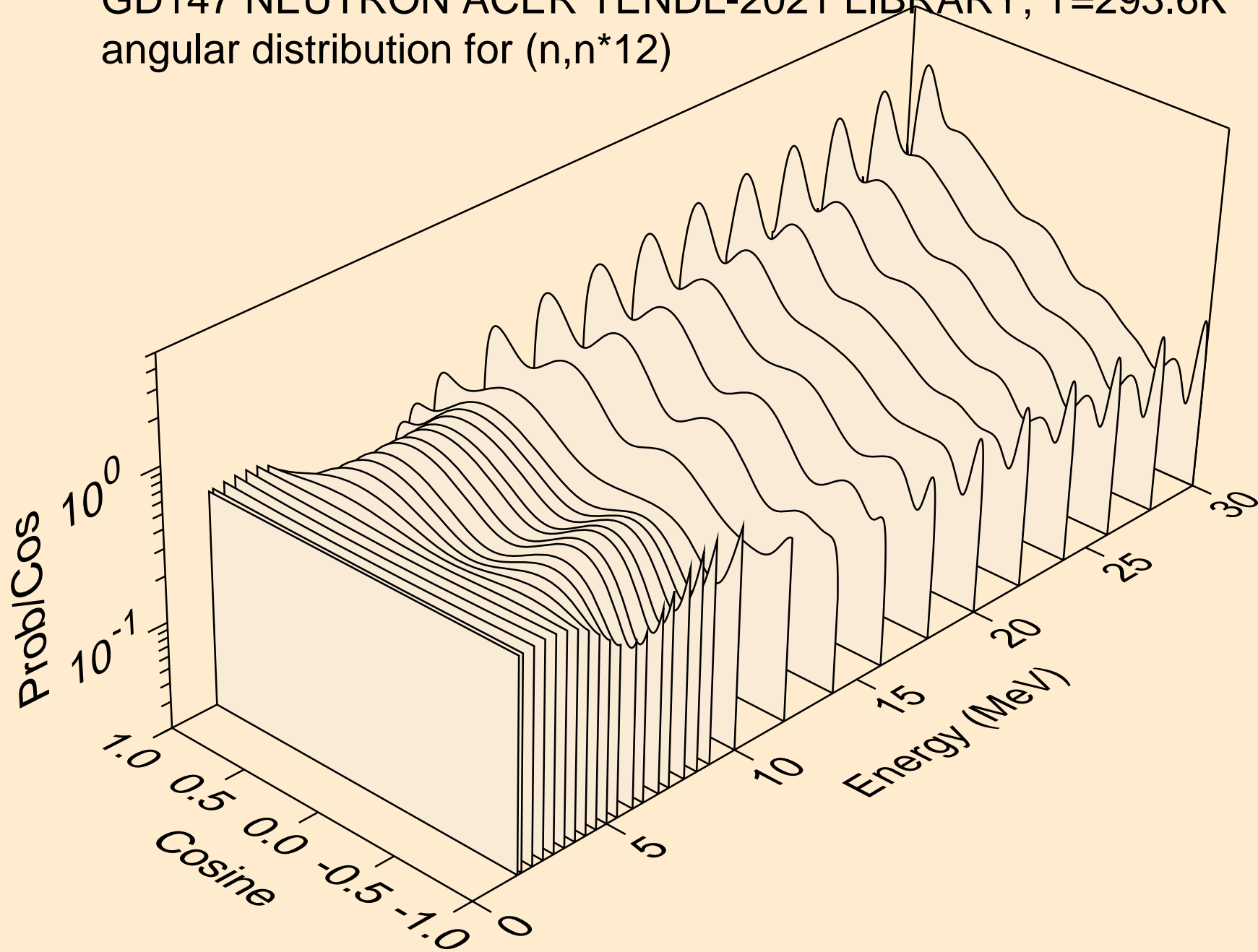
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angular distribution for (n,n\*10)



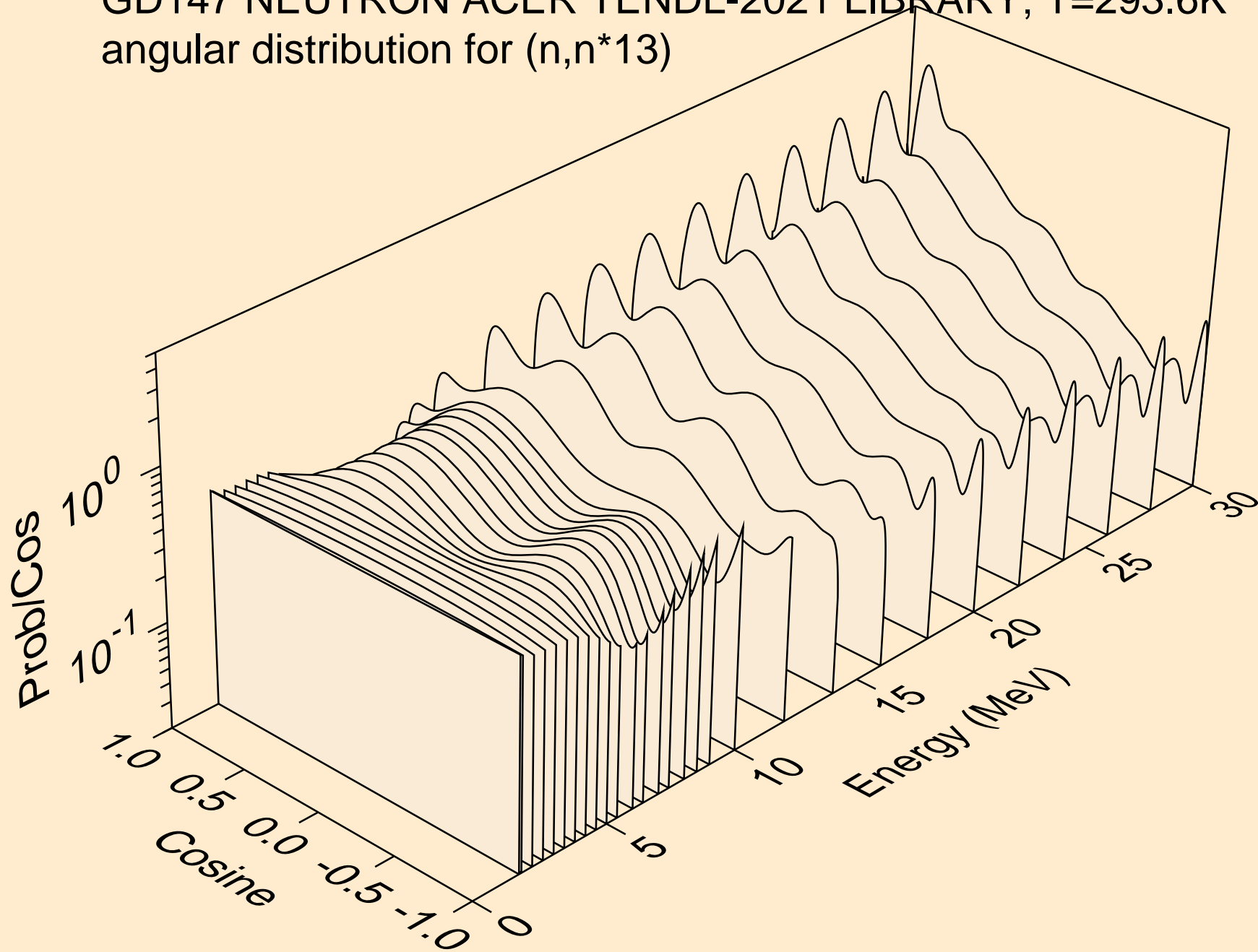
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angular distribution for (n,n\*11)



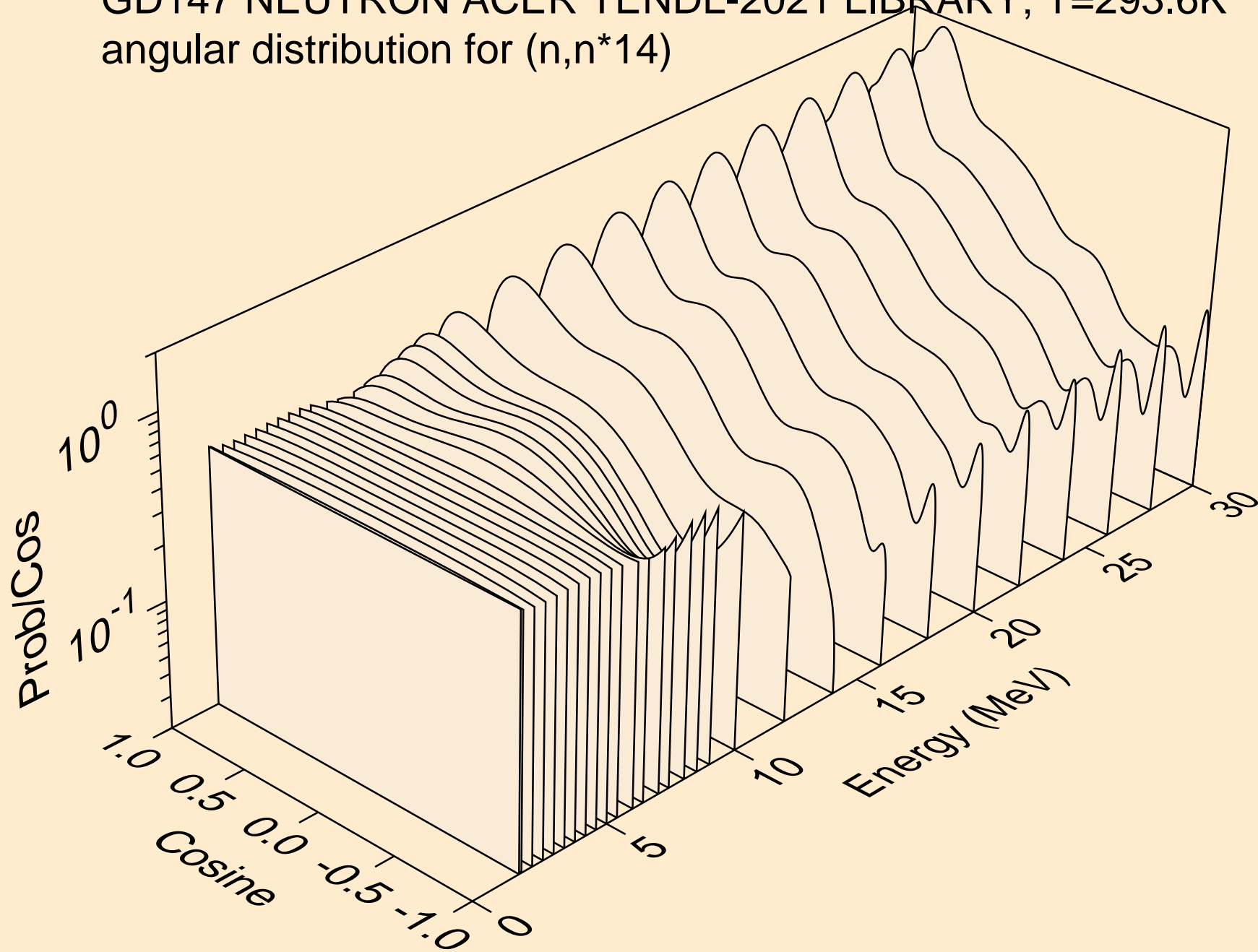
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angular distribution for (n,n\*12)



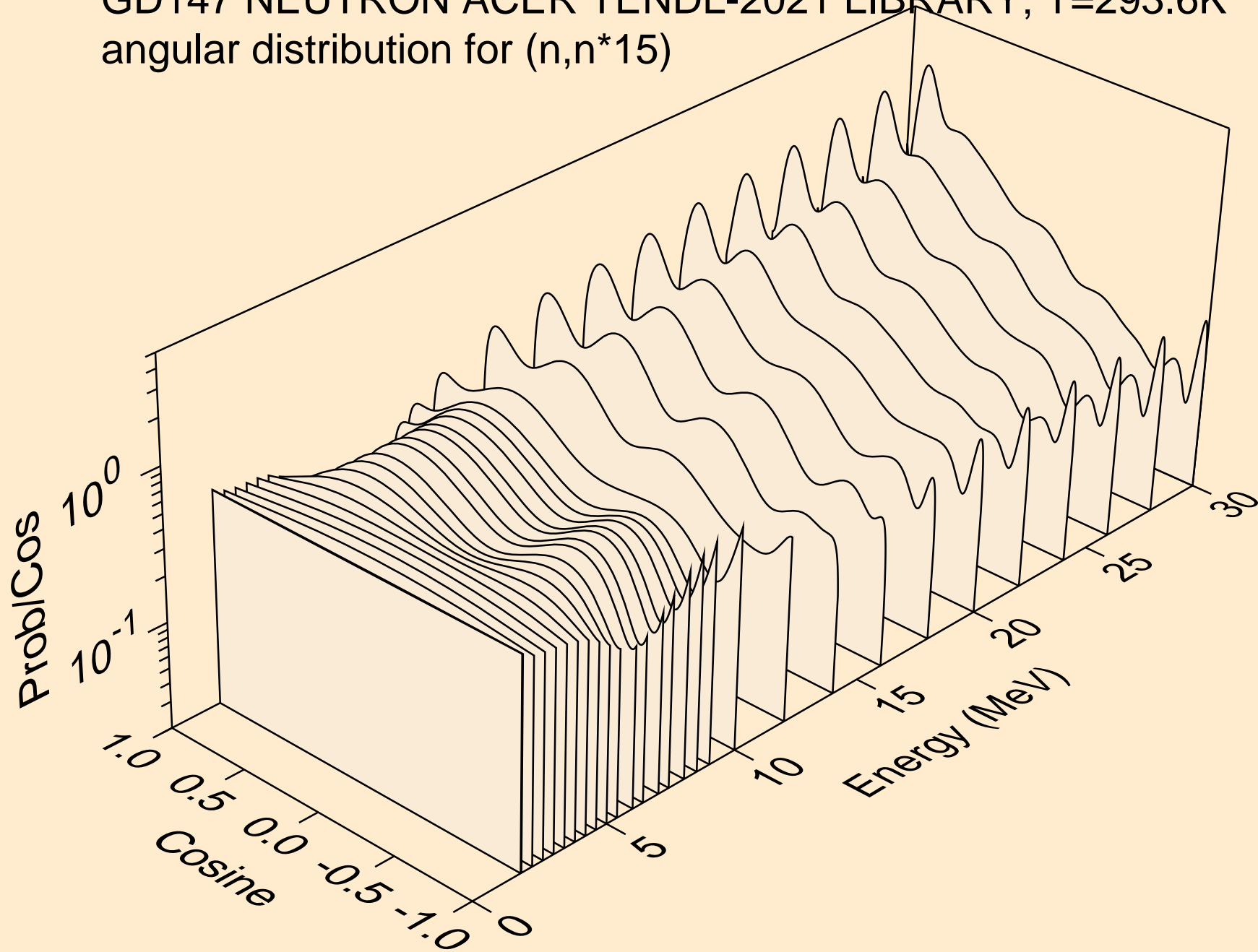
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angular distribution for (n,n\*13)



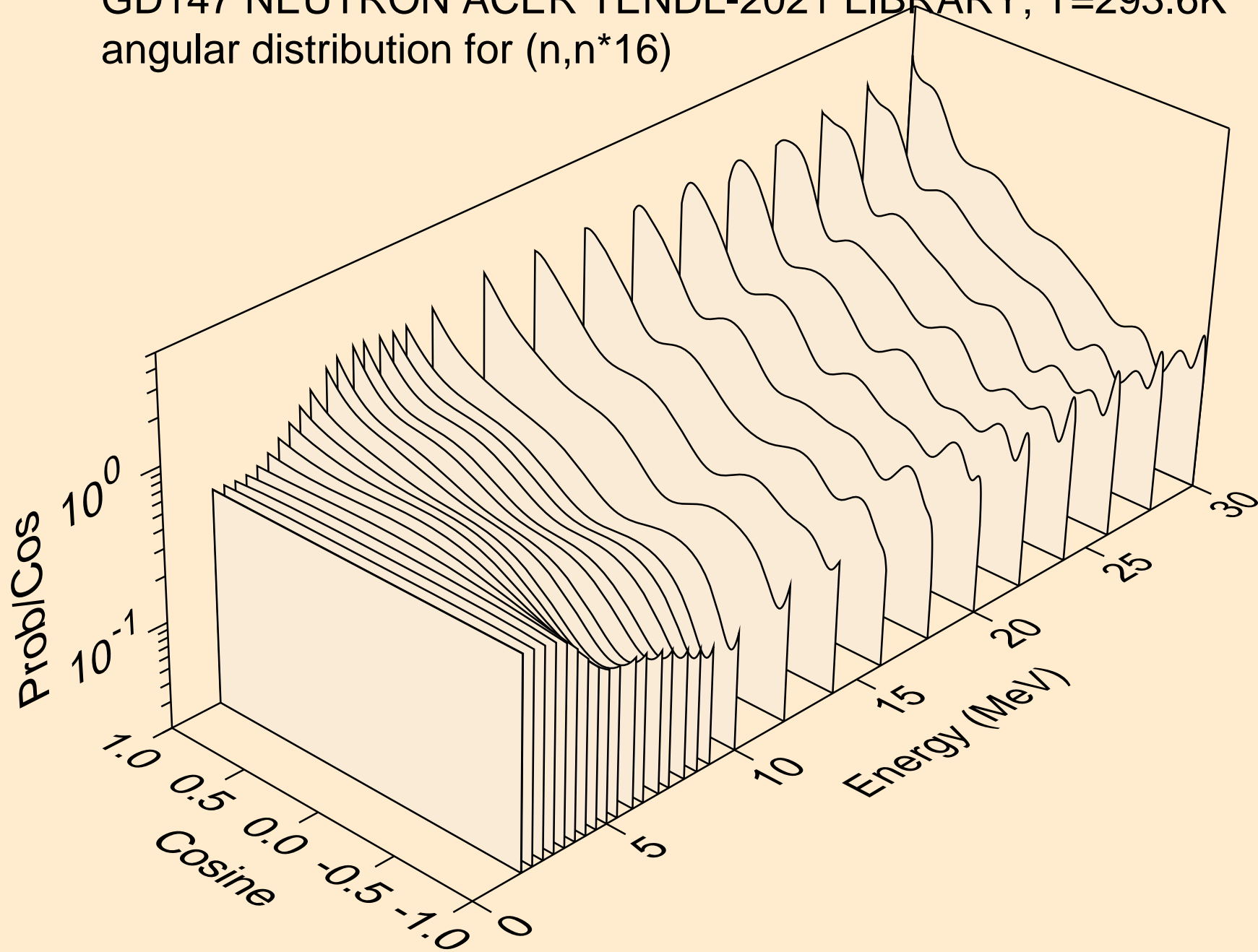
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angular distribution for (n,n\*14)



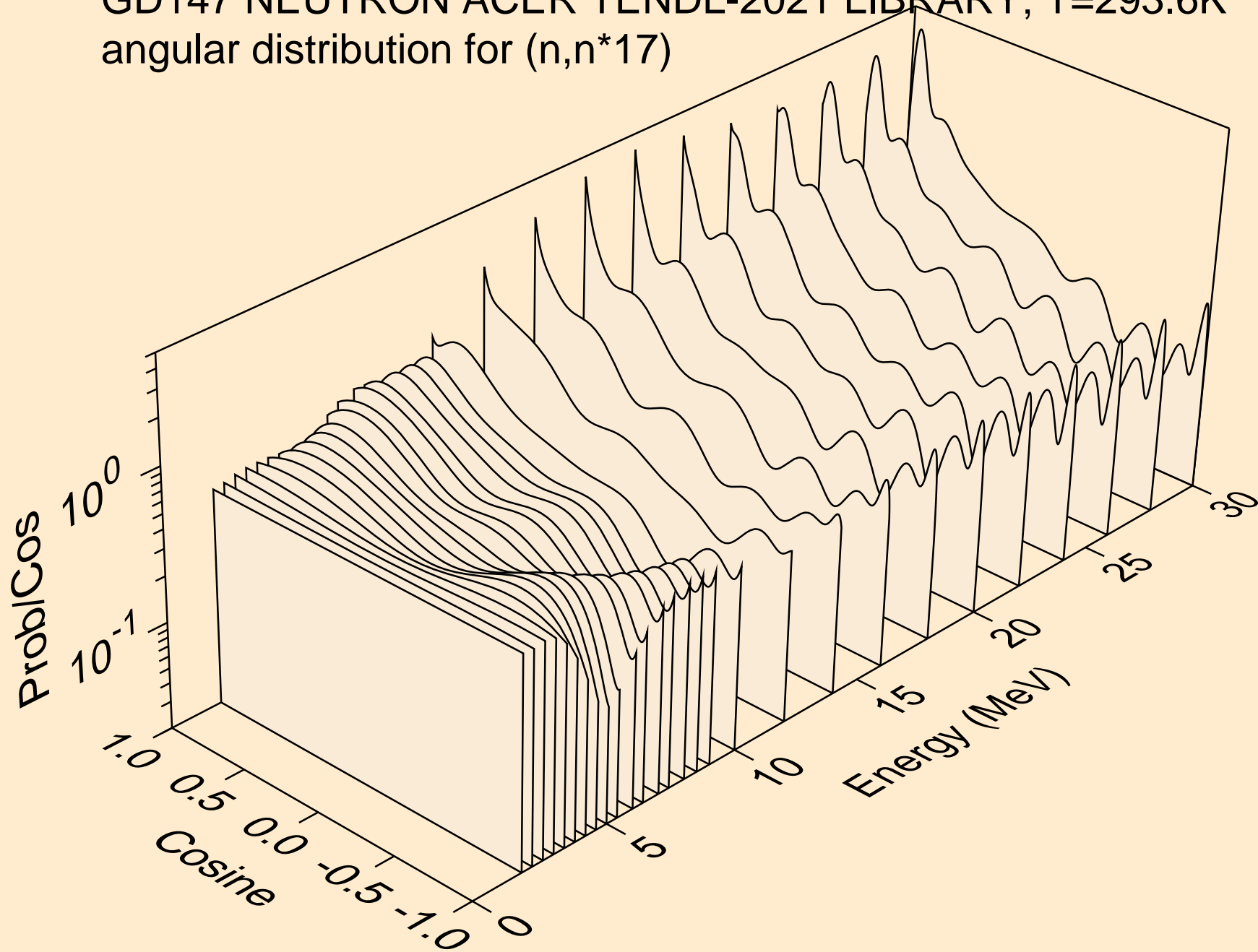
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)

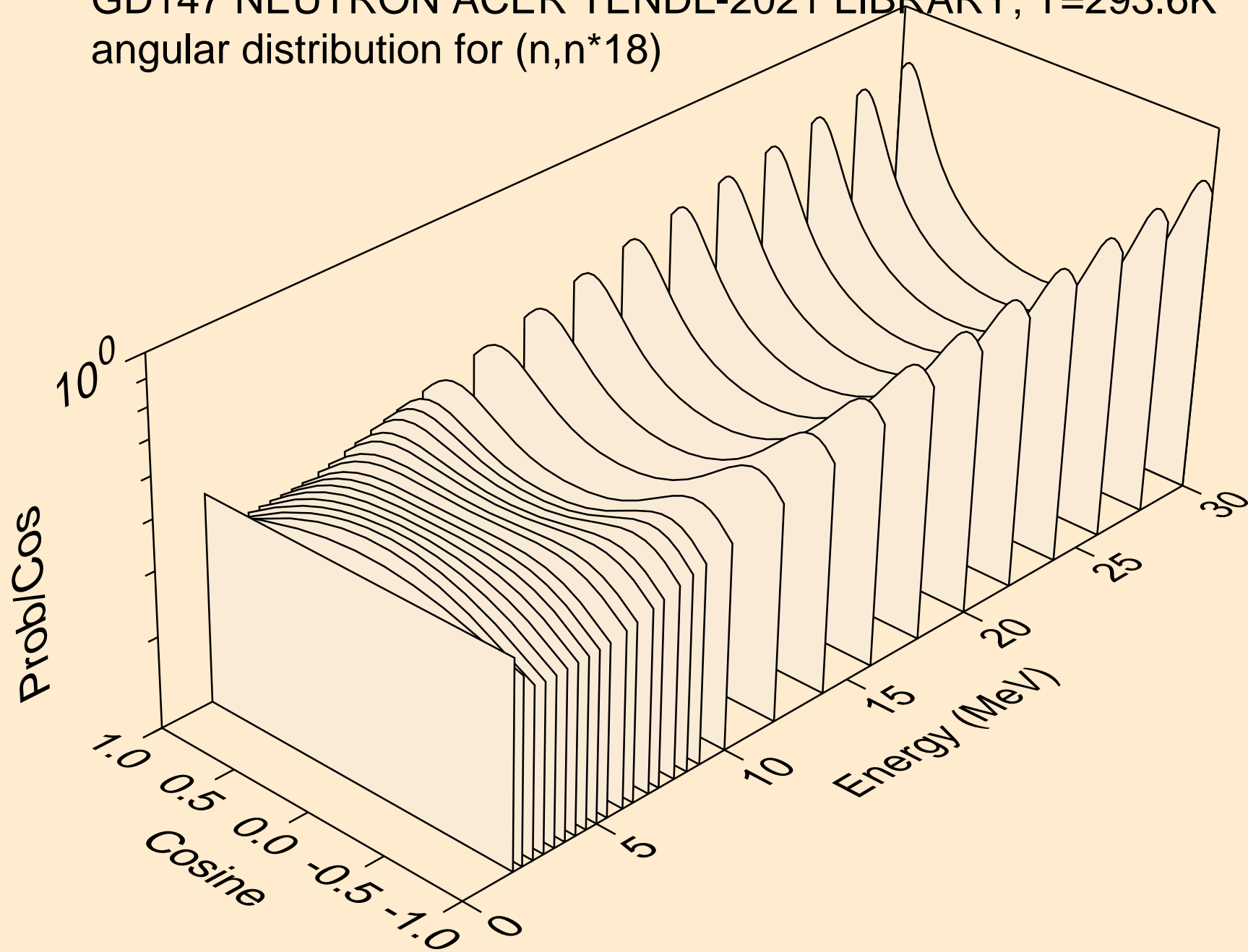


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

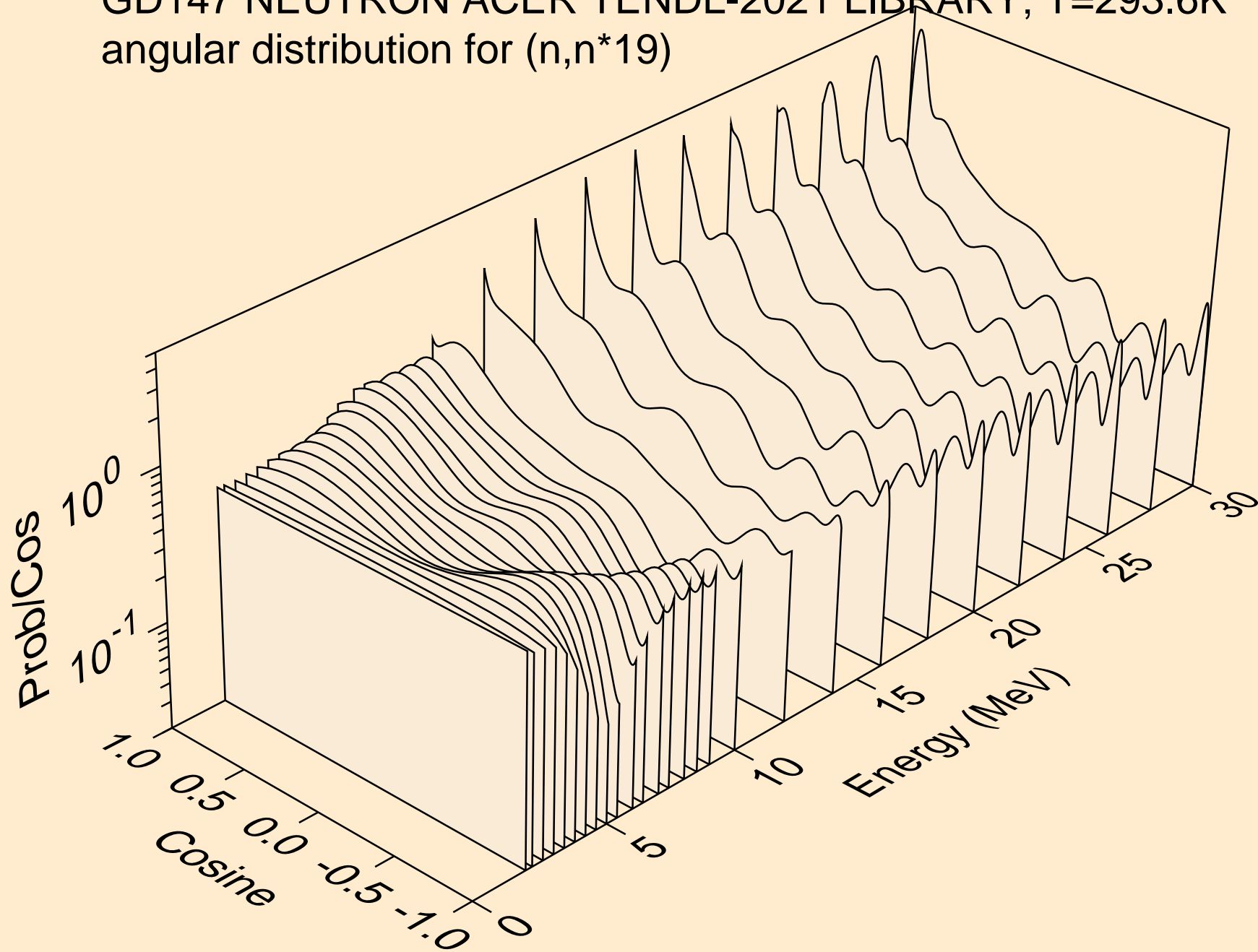




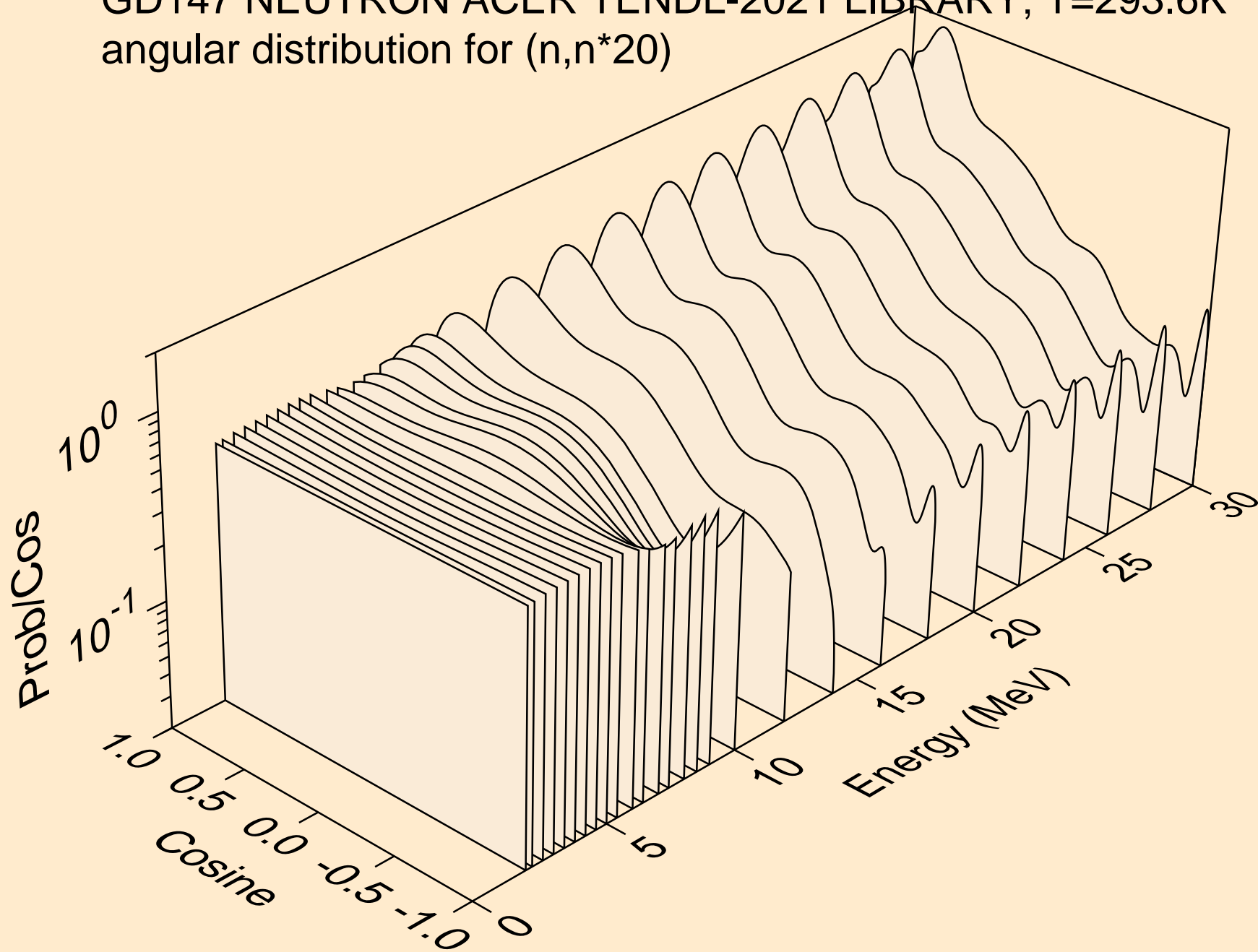
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)



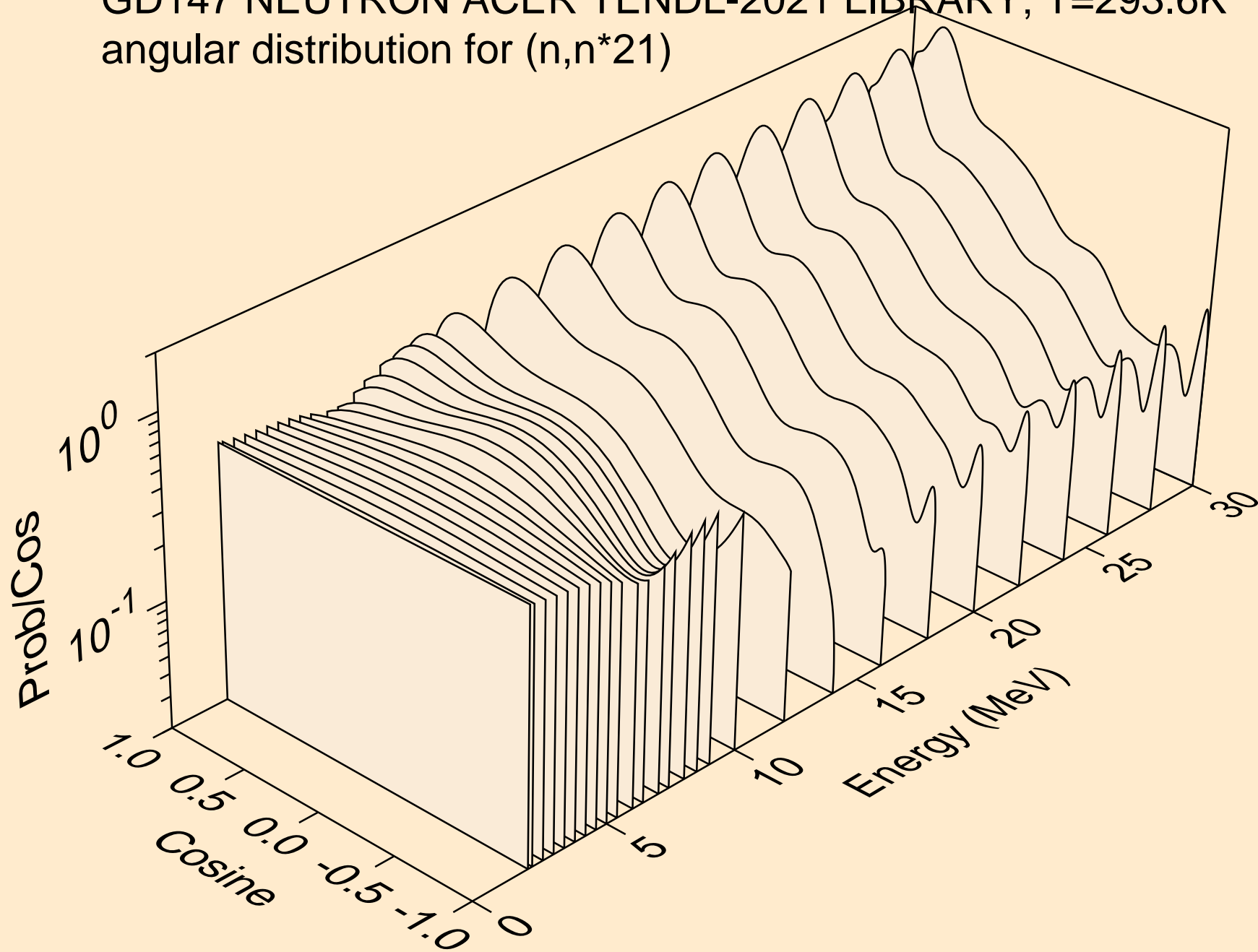
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angular distribution for (n,n\*19)



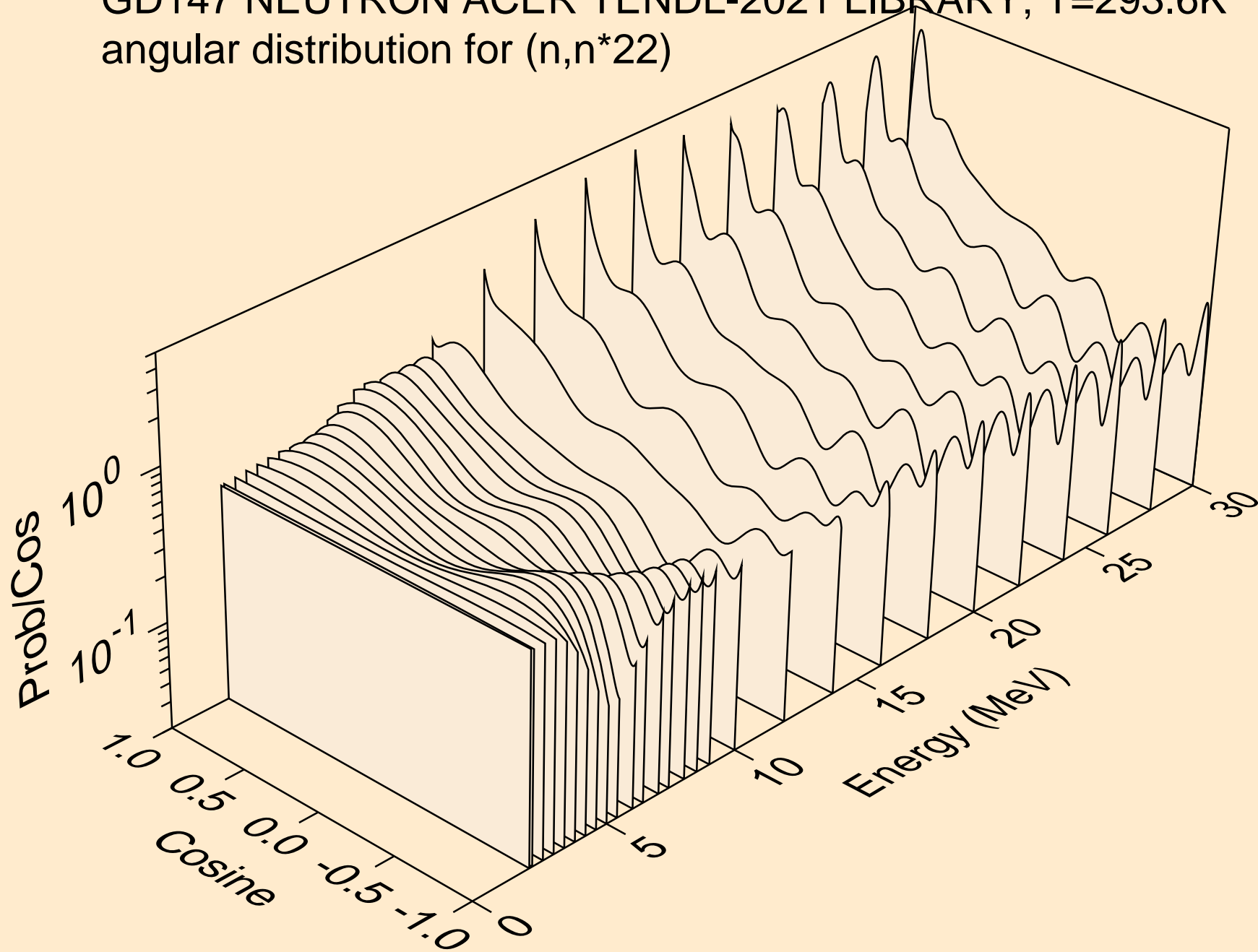
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angular distribution for (n,n\*20)



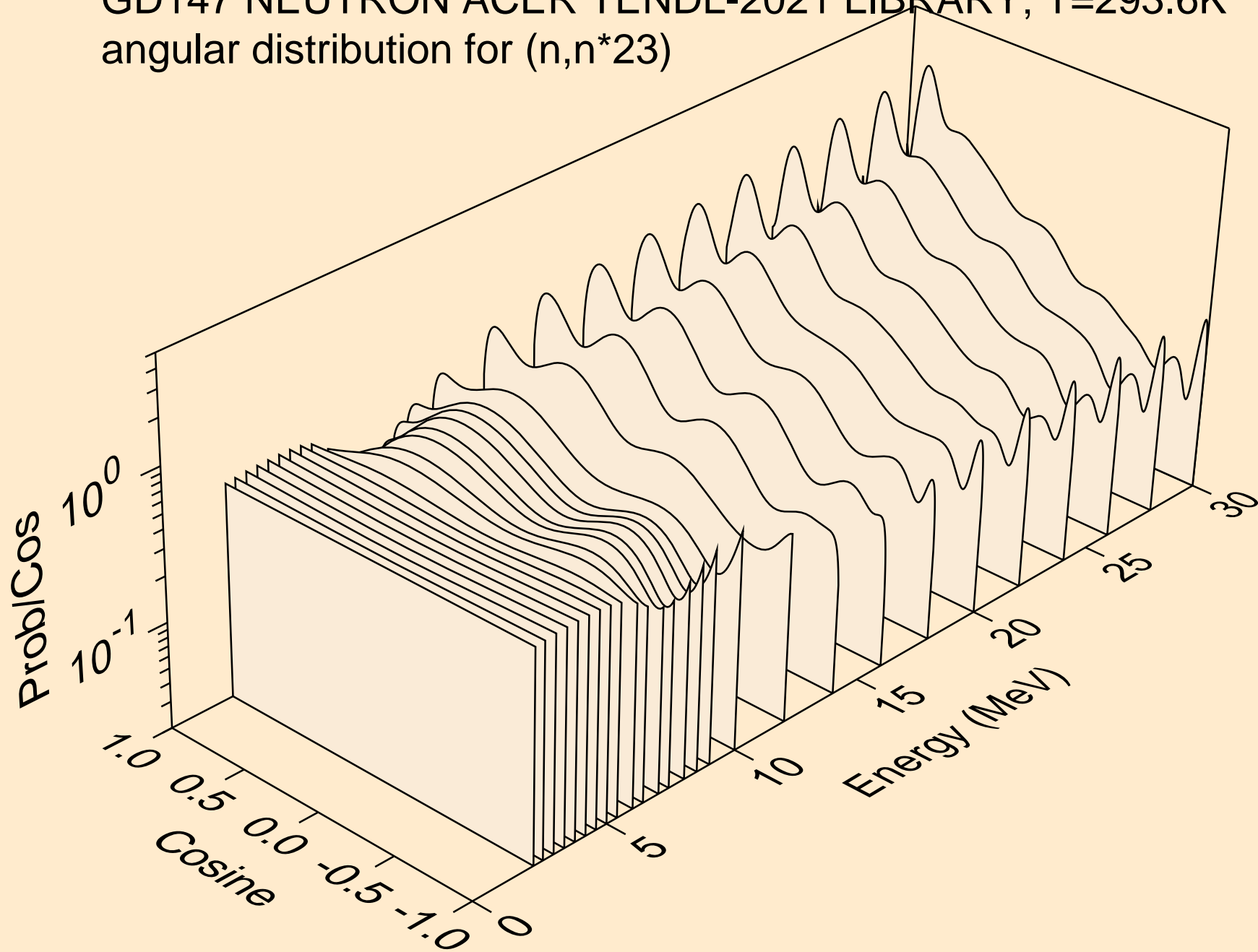
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angular distribution for (n,n\*21)



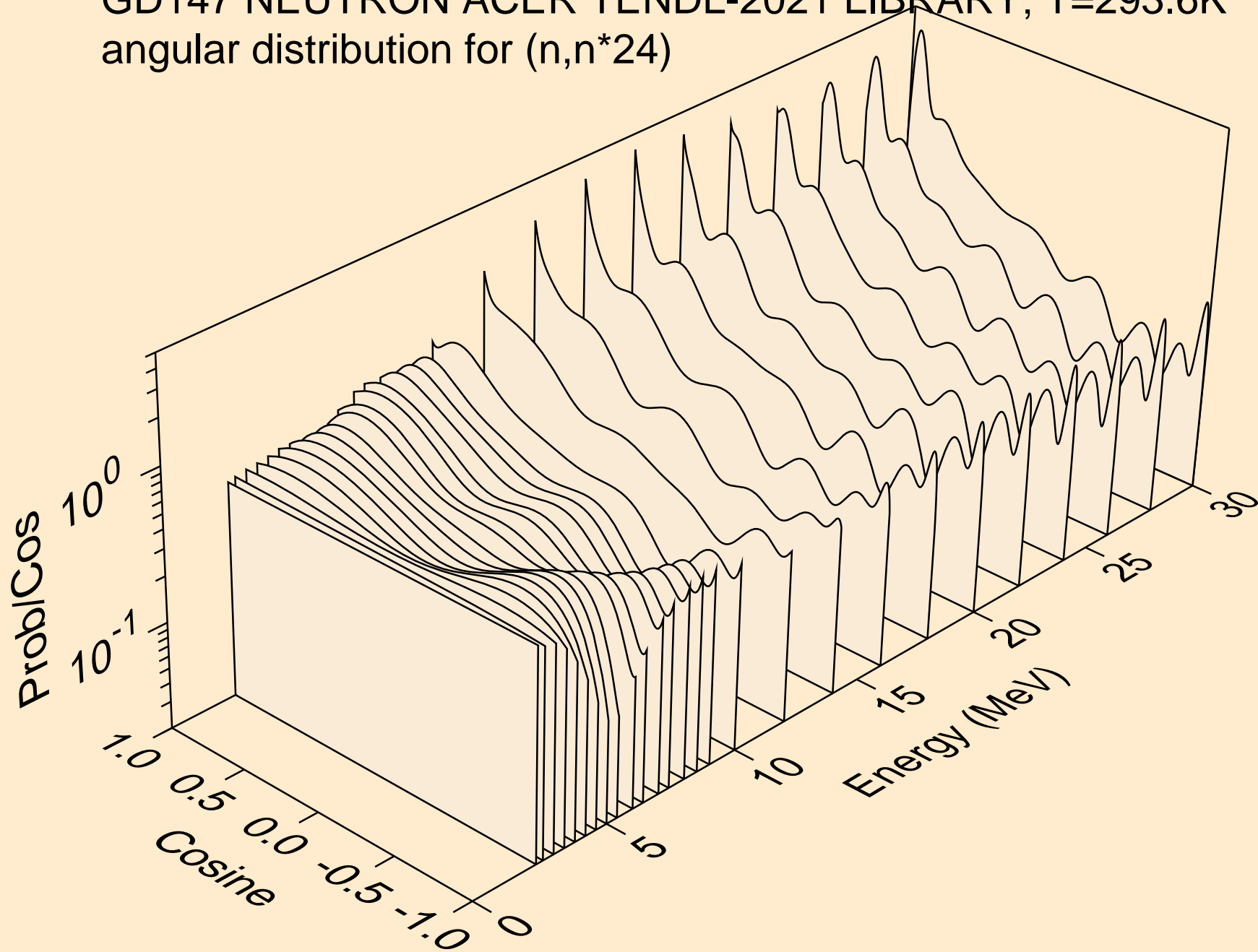
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



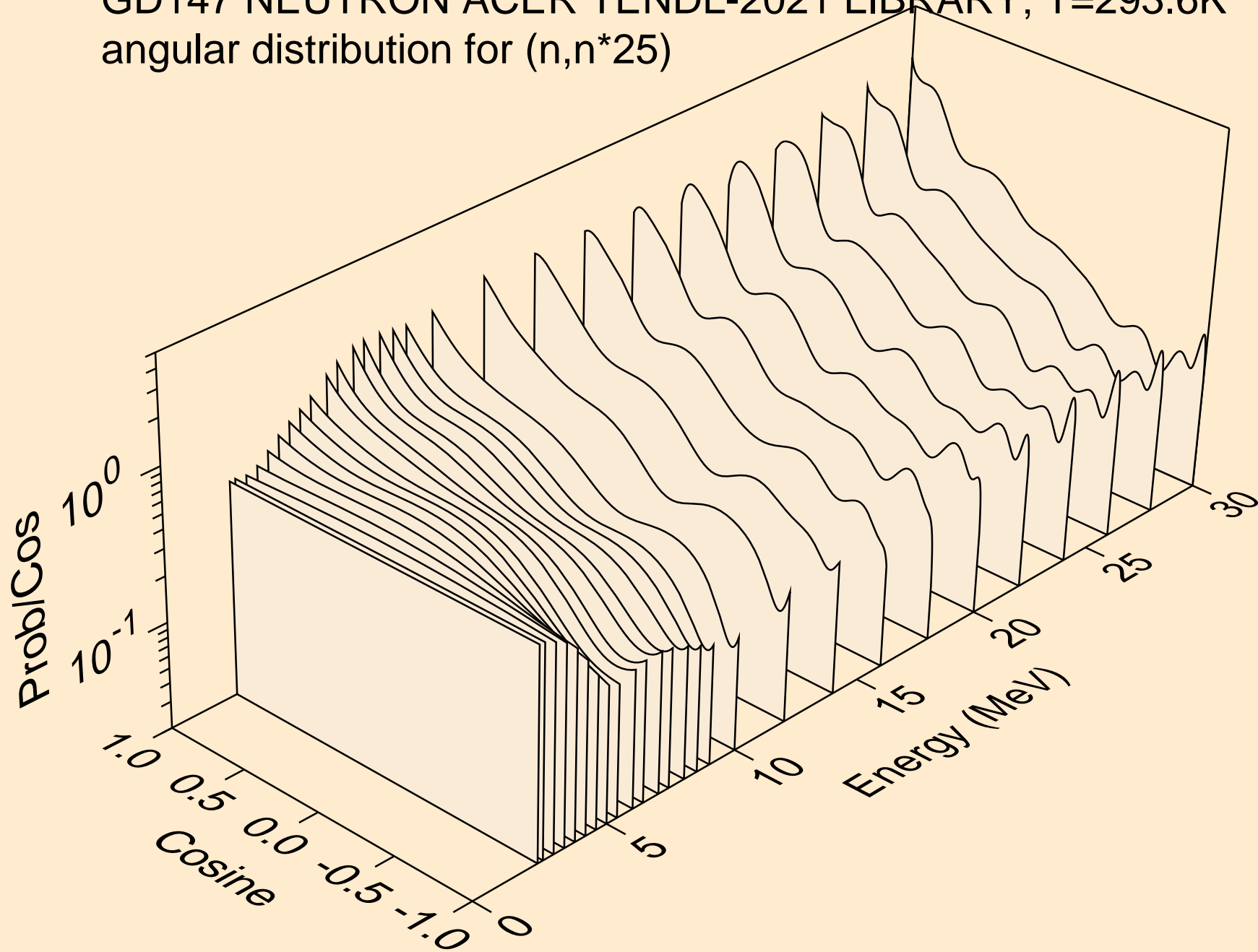
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)

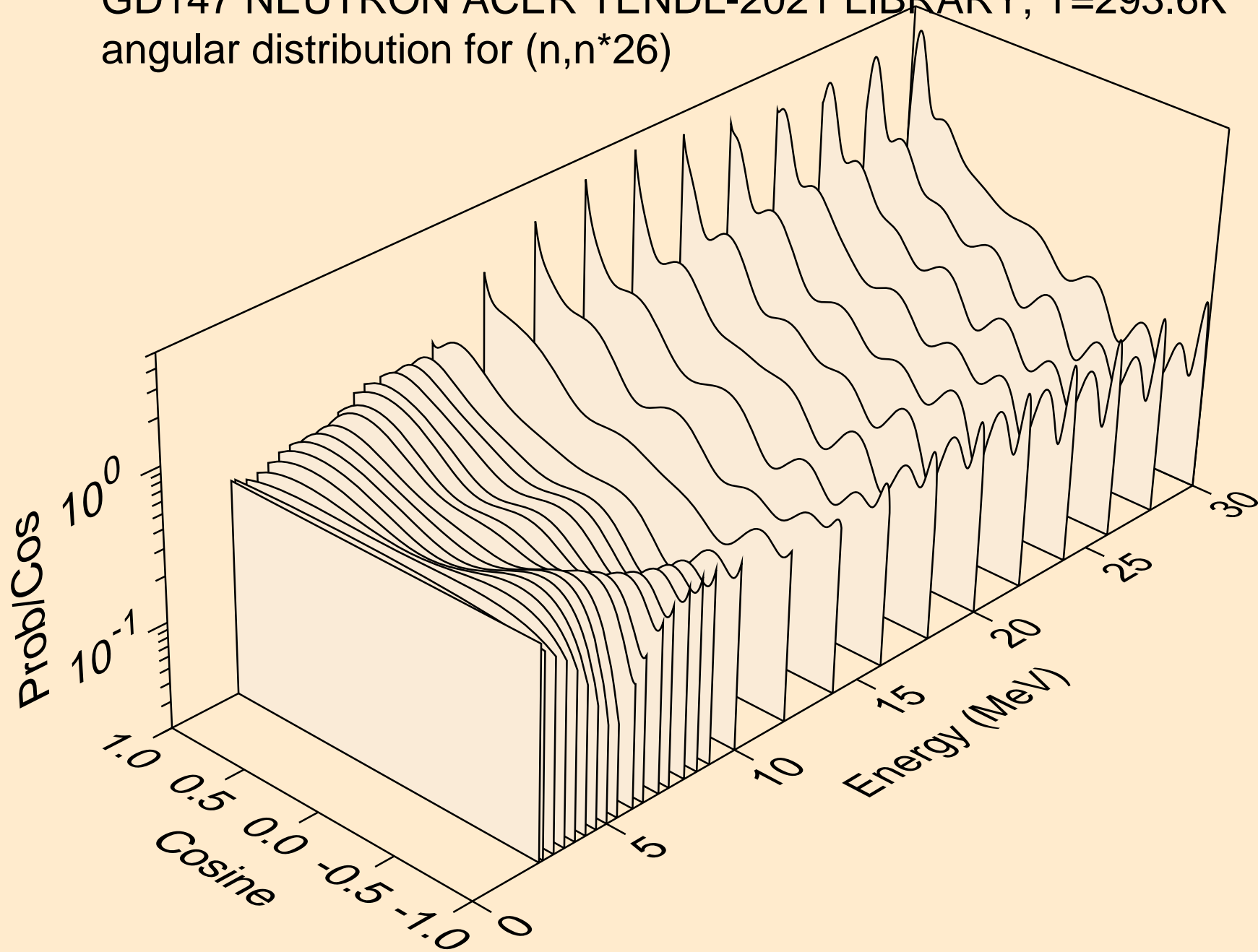


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

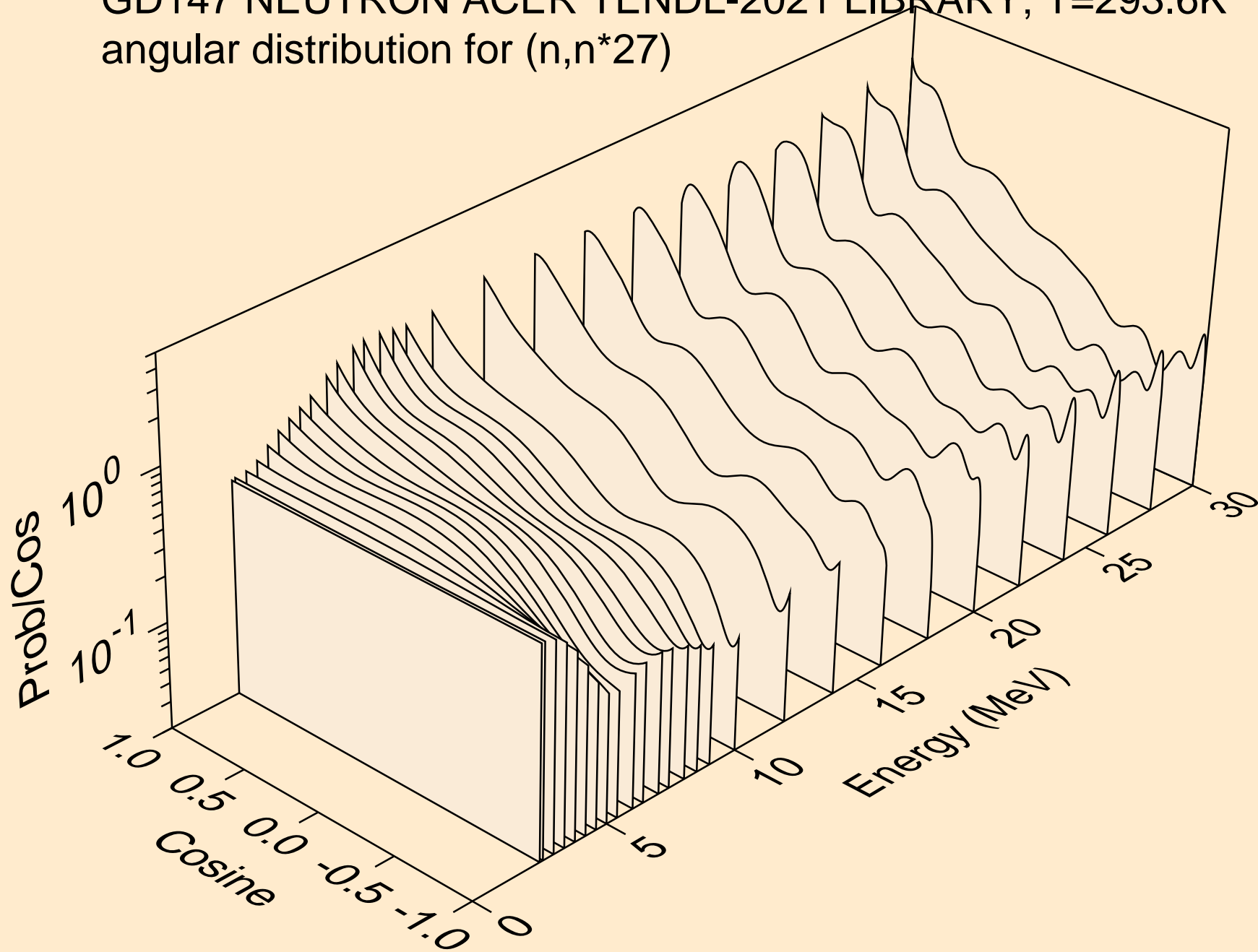




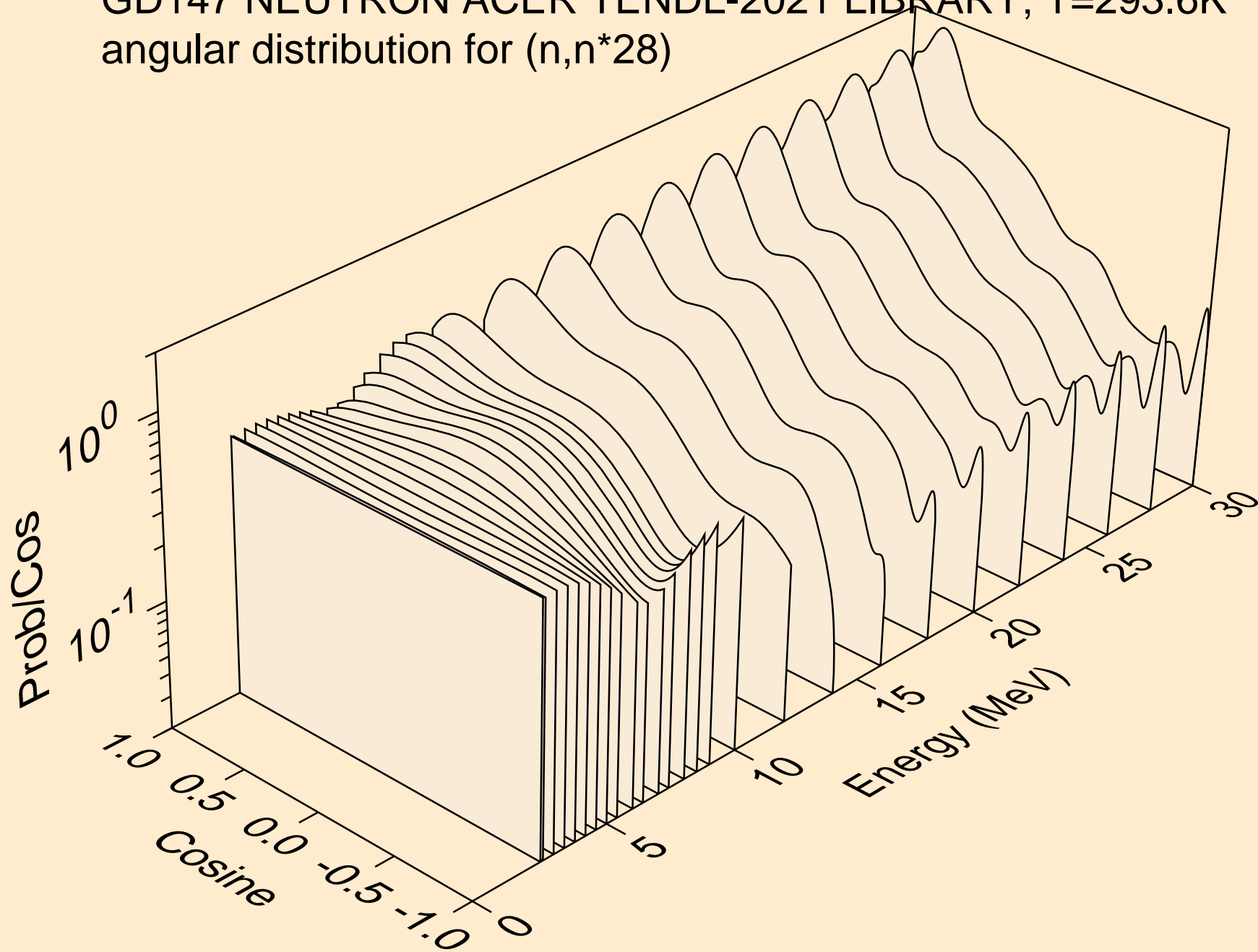
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



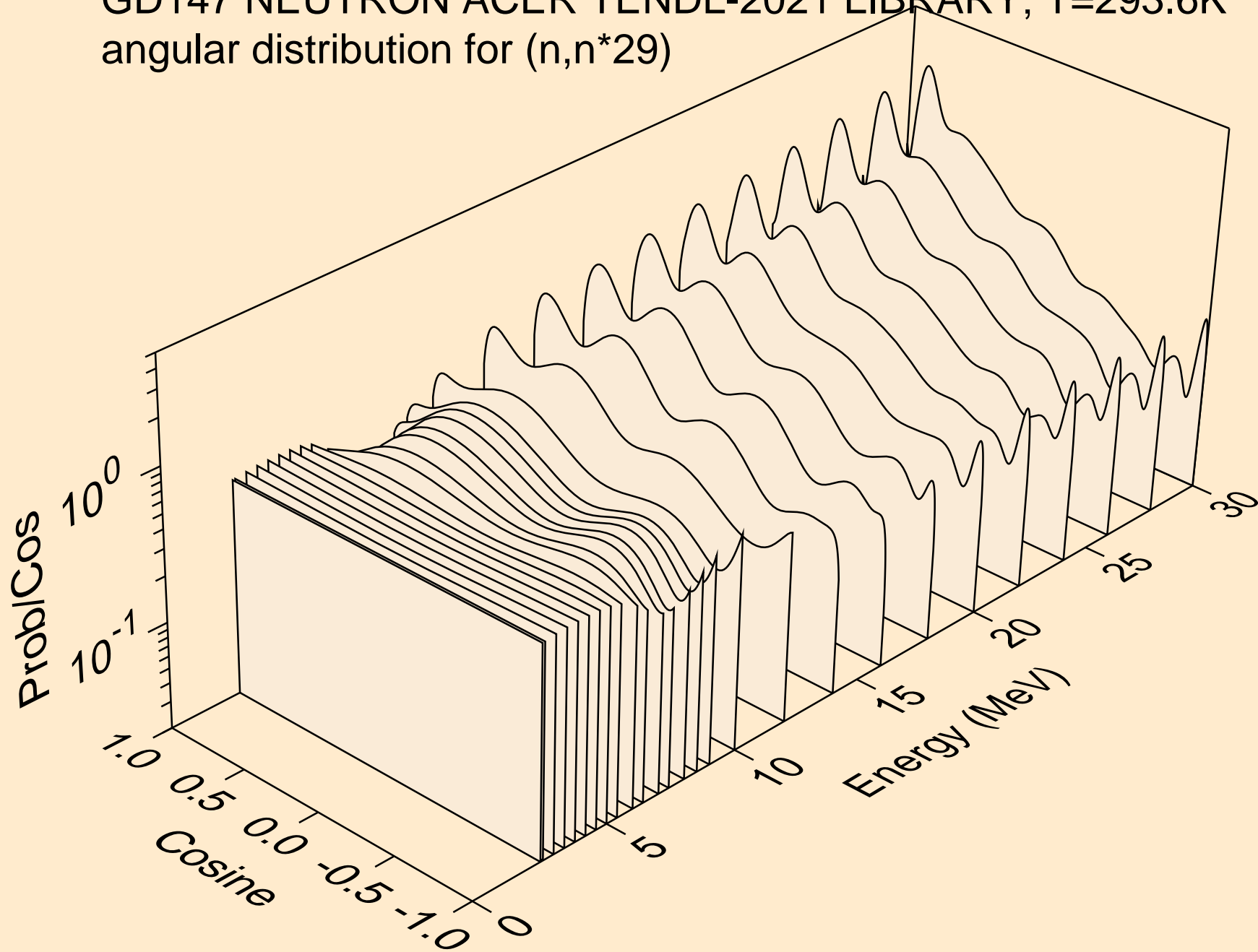
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angular distribution for (n,n\*27)



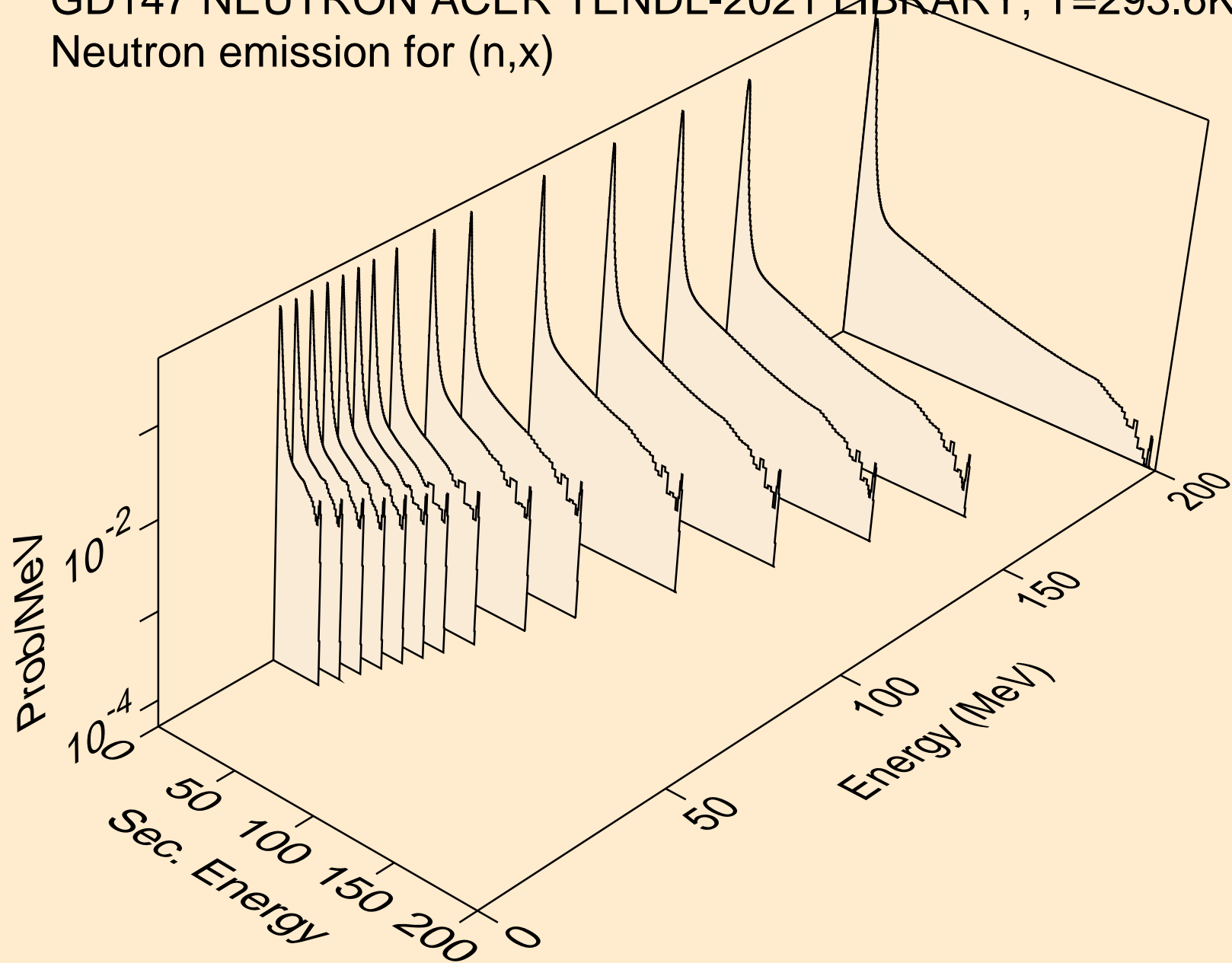
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angular distribution for (n,n\*28)



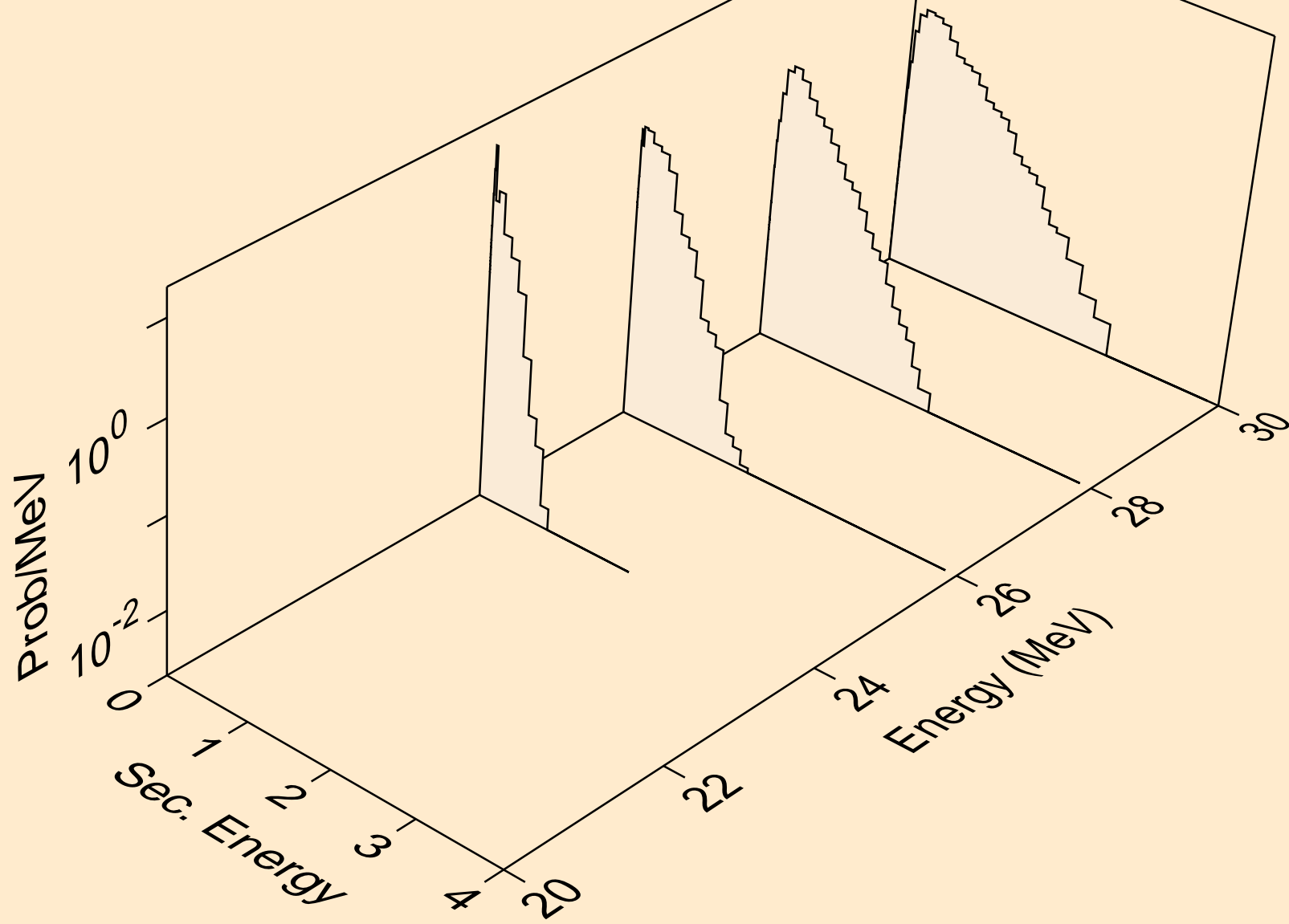
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



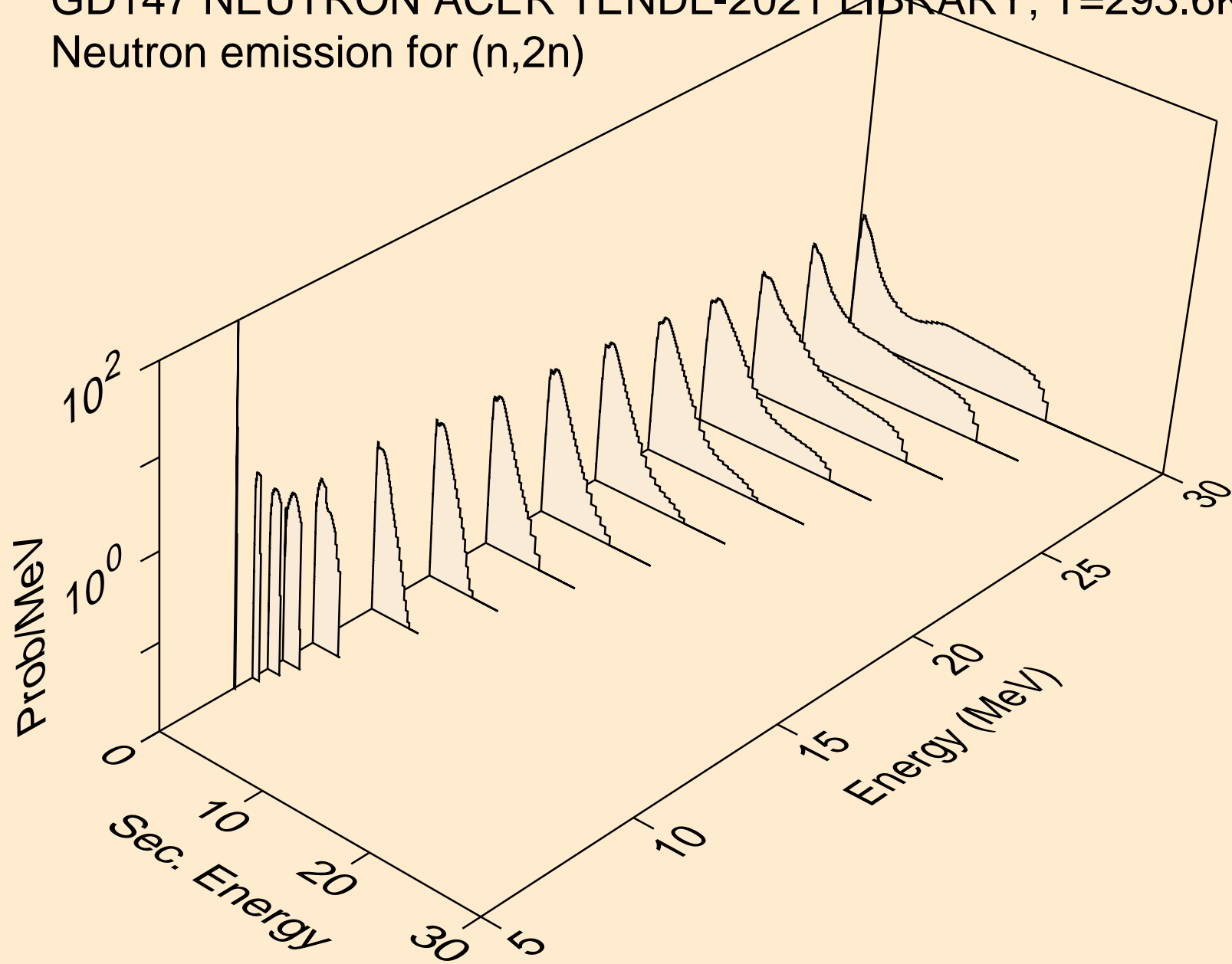
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



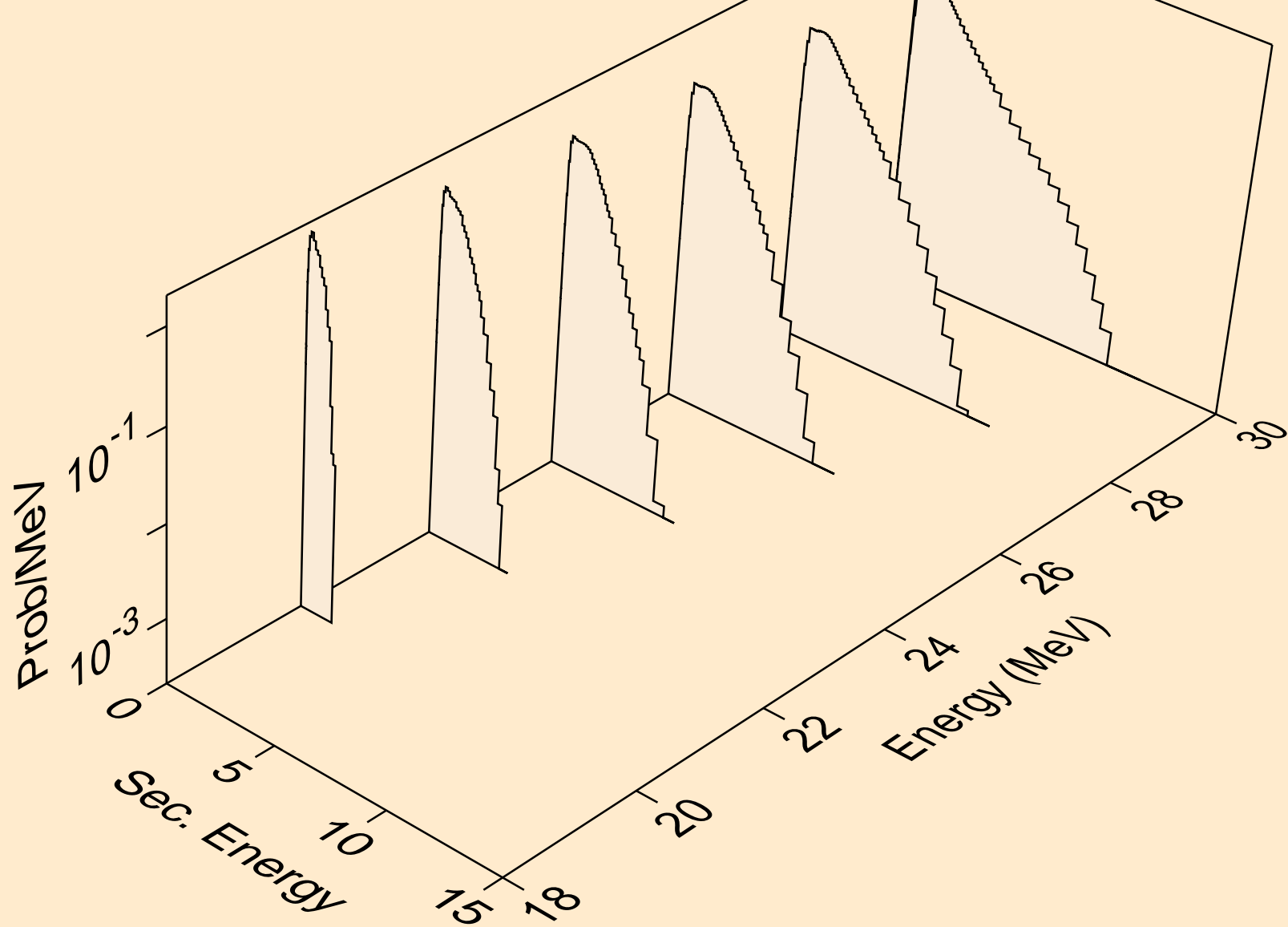
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

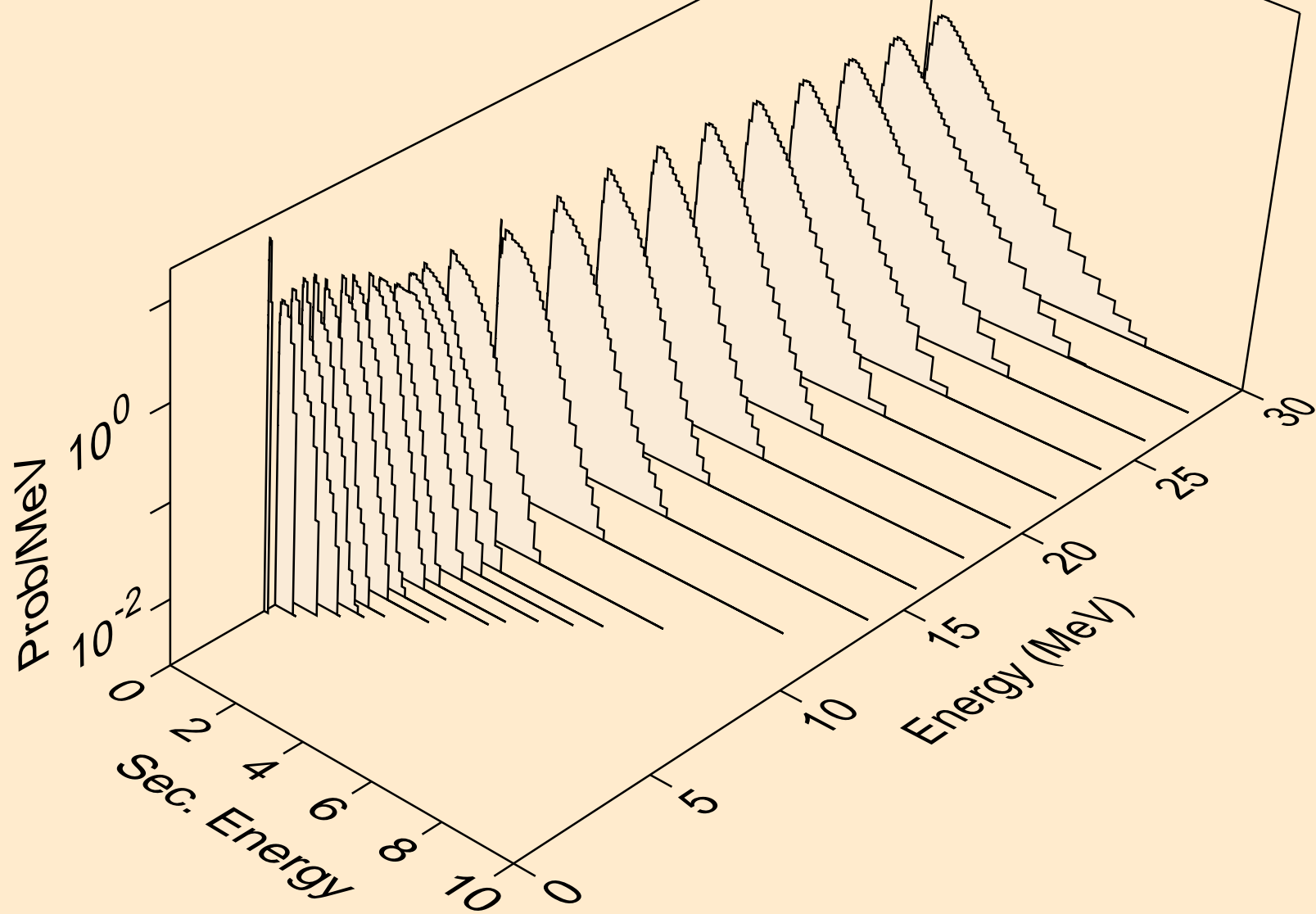


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)

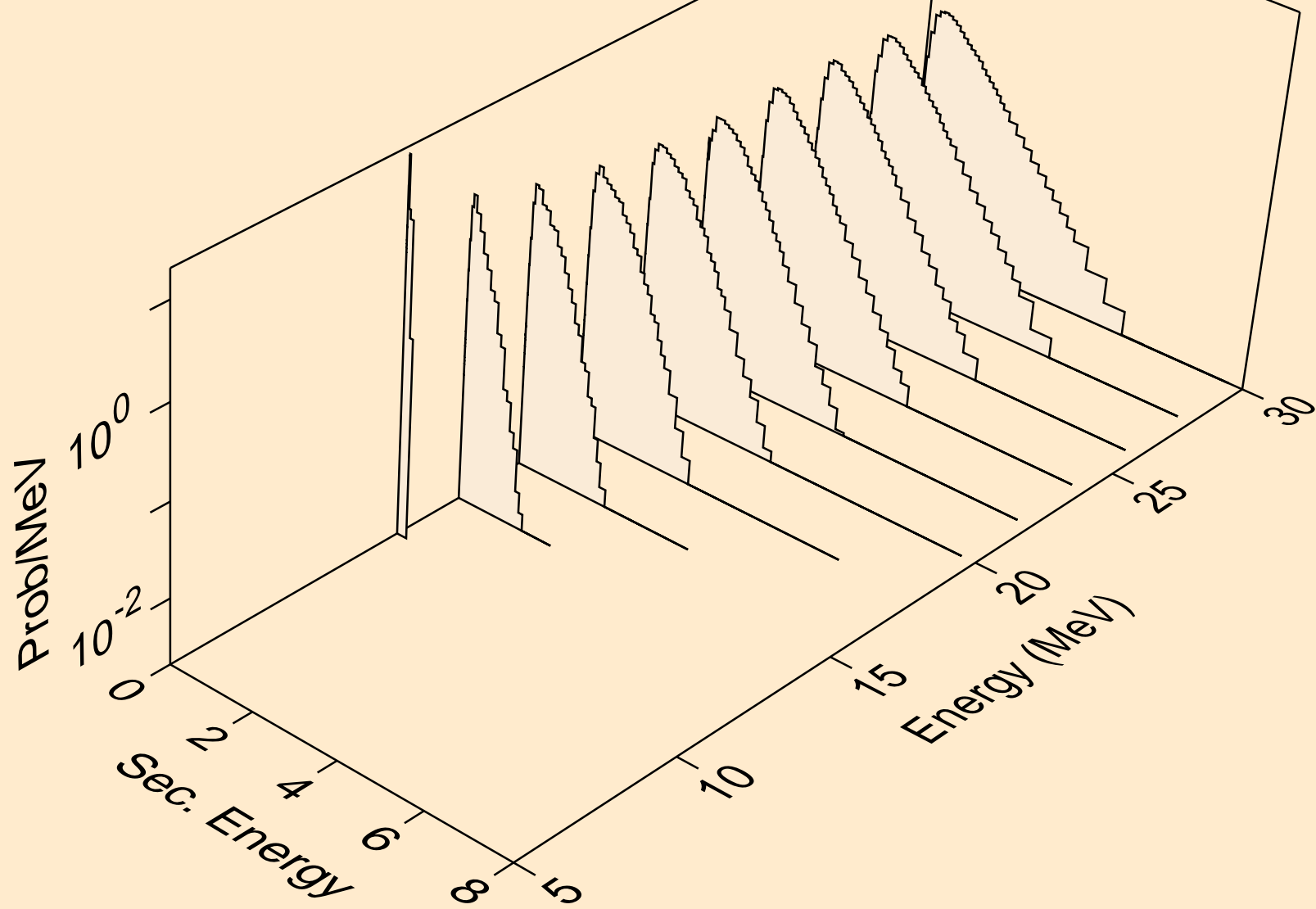




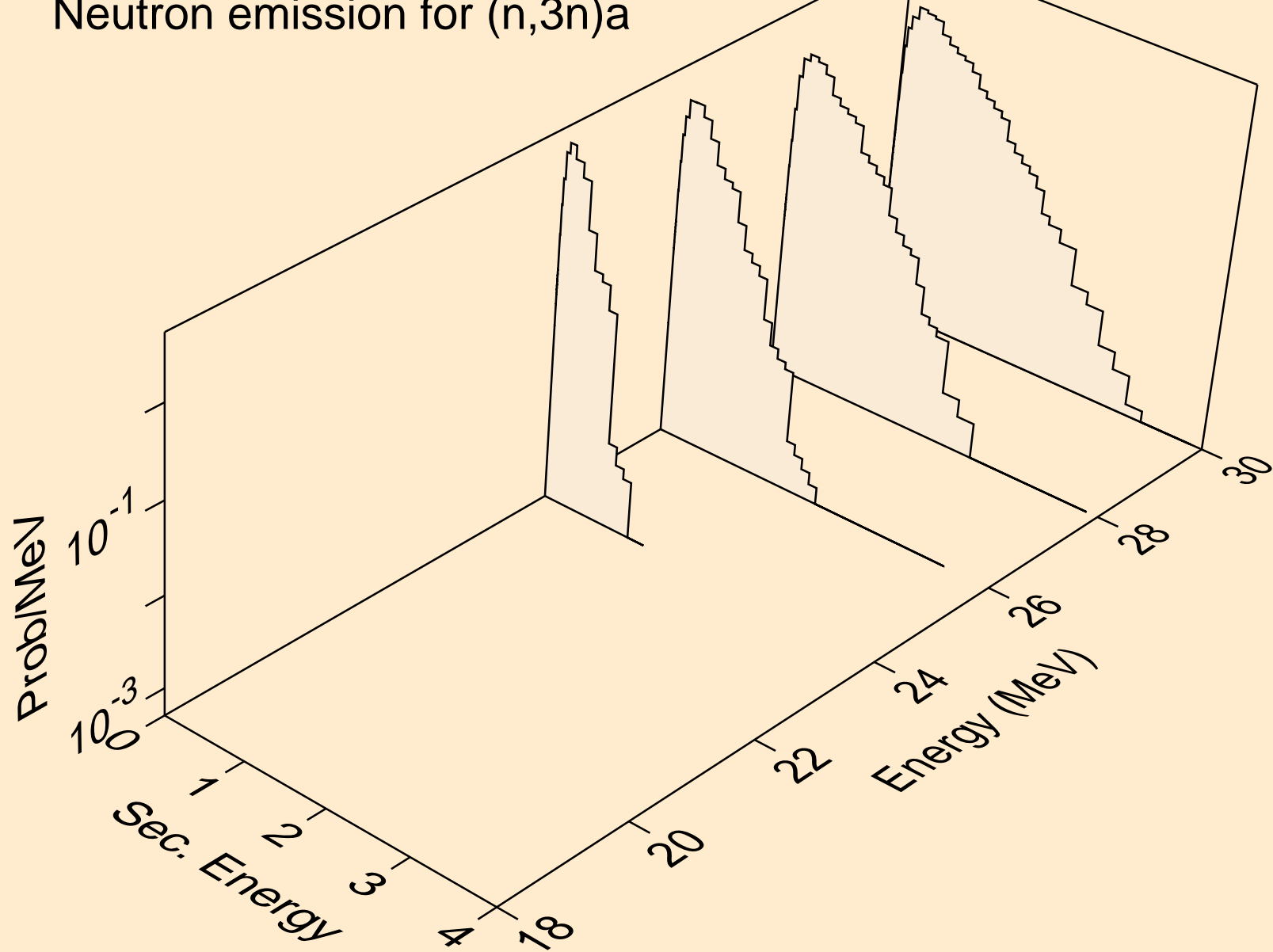
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



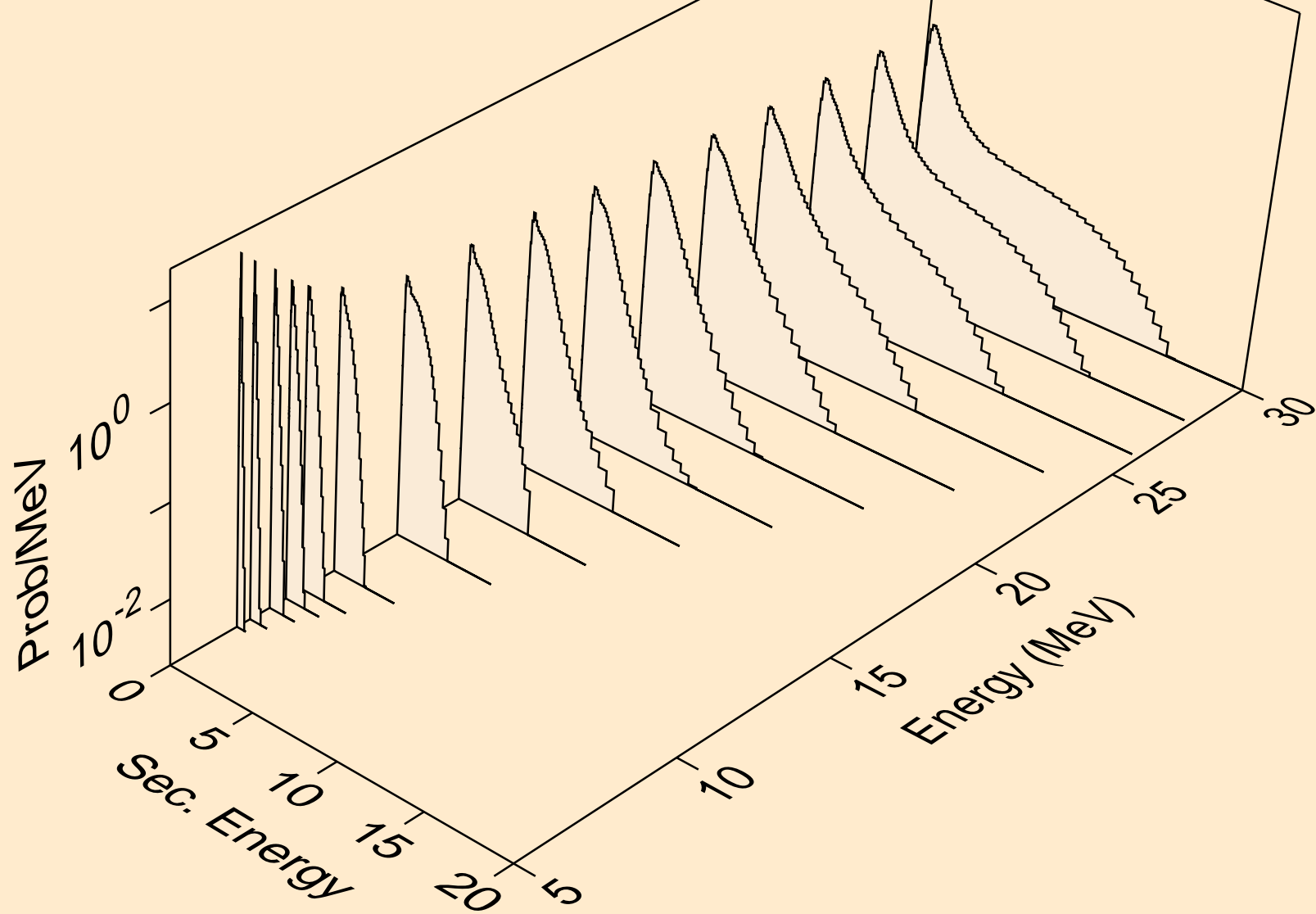
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



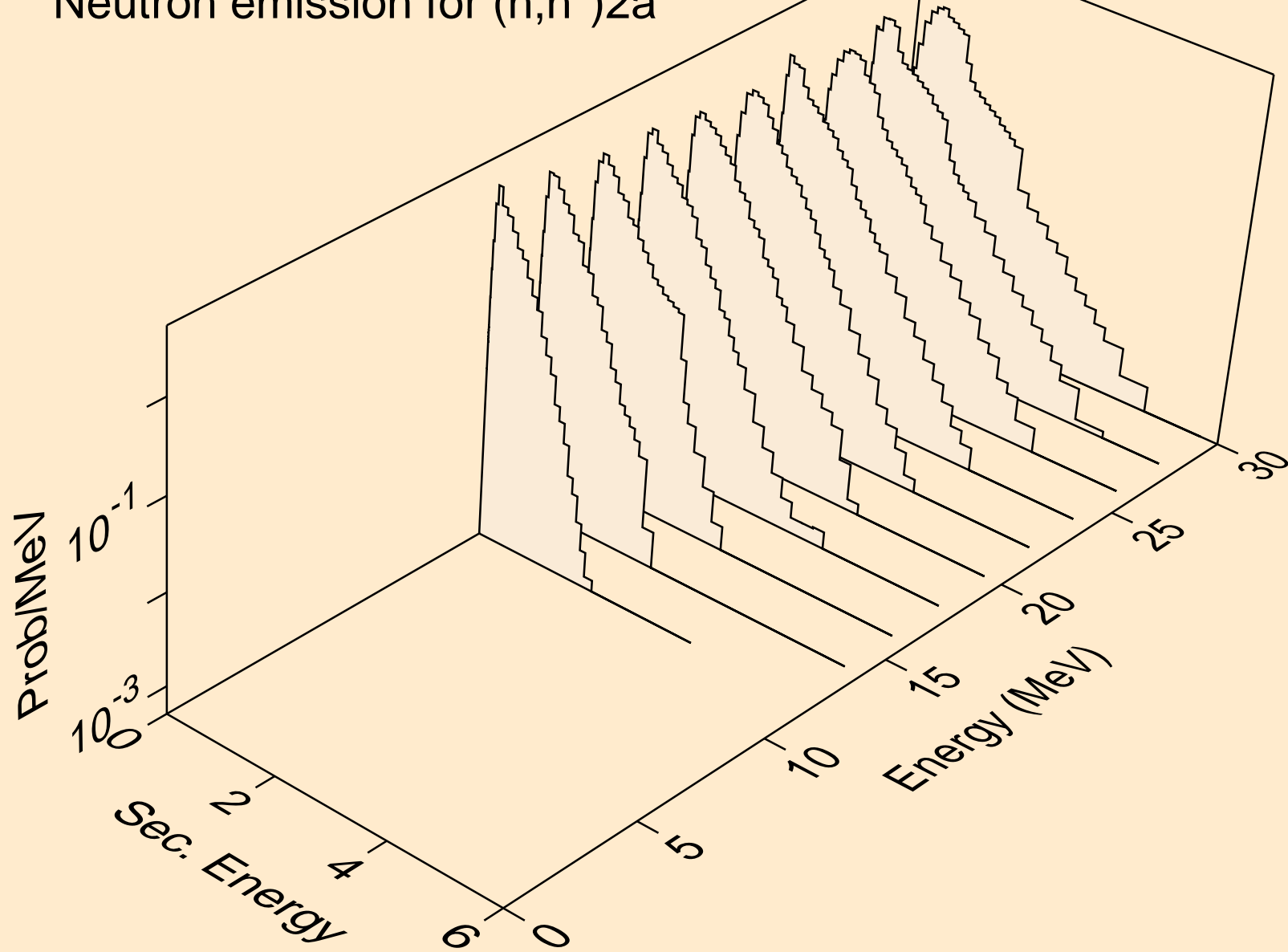
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



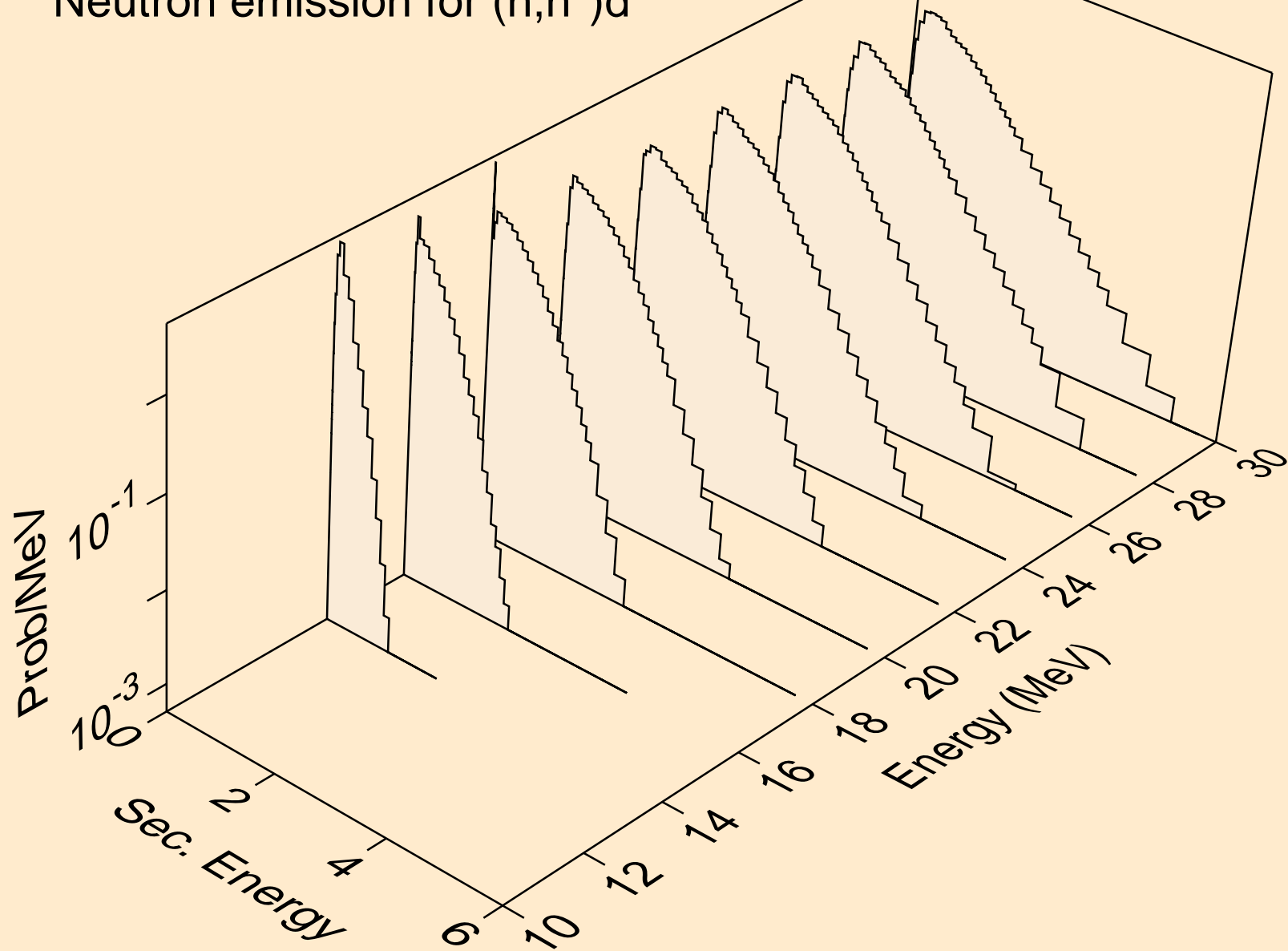
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



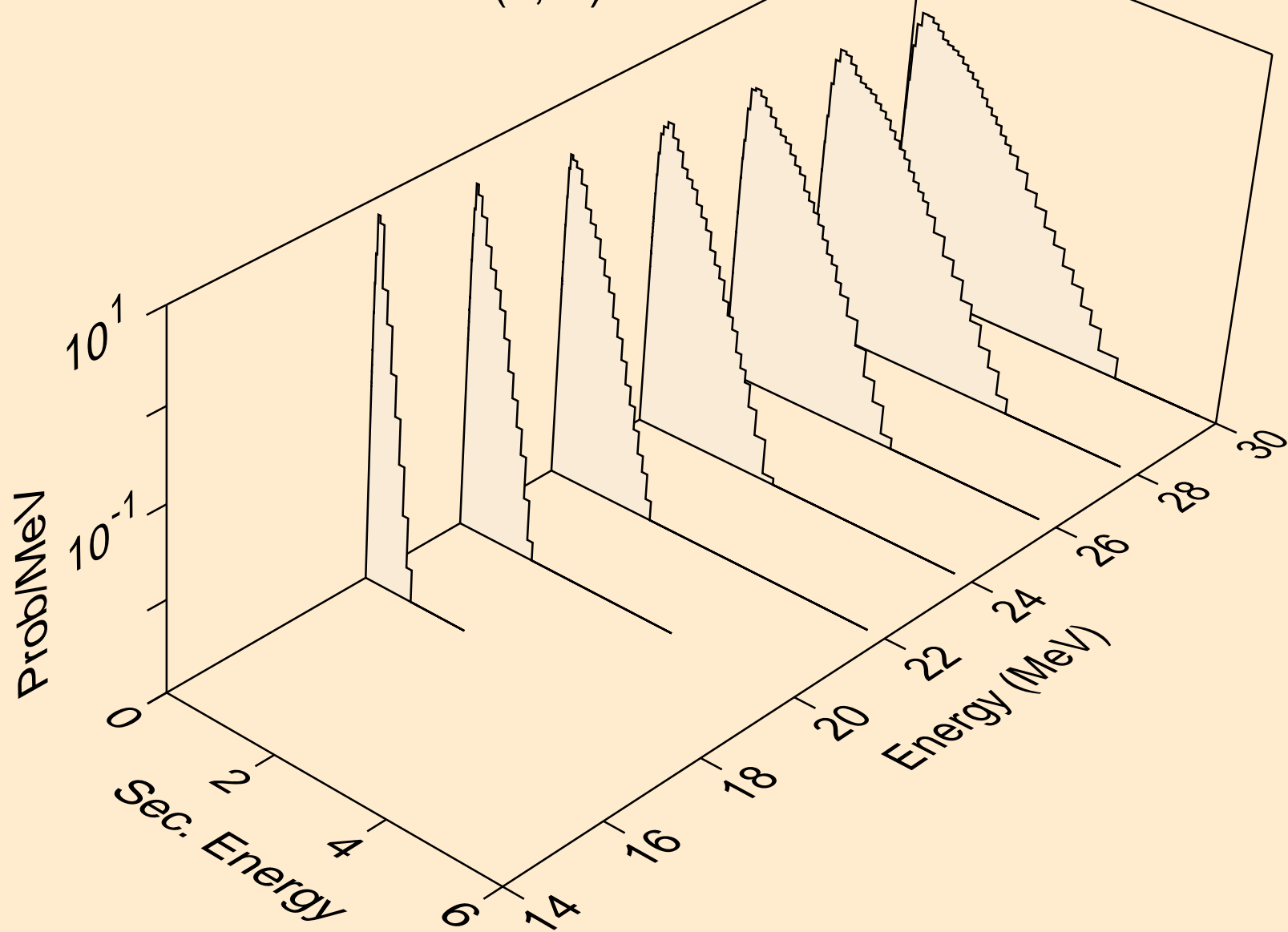
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



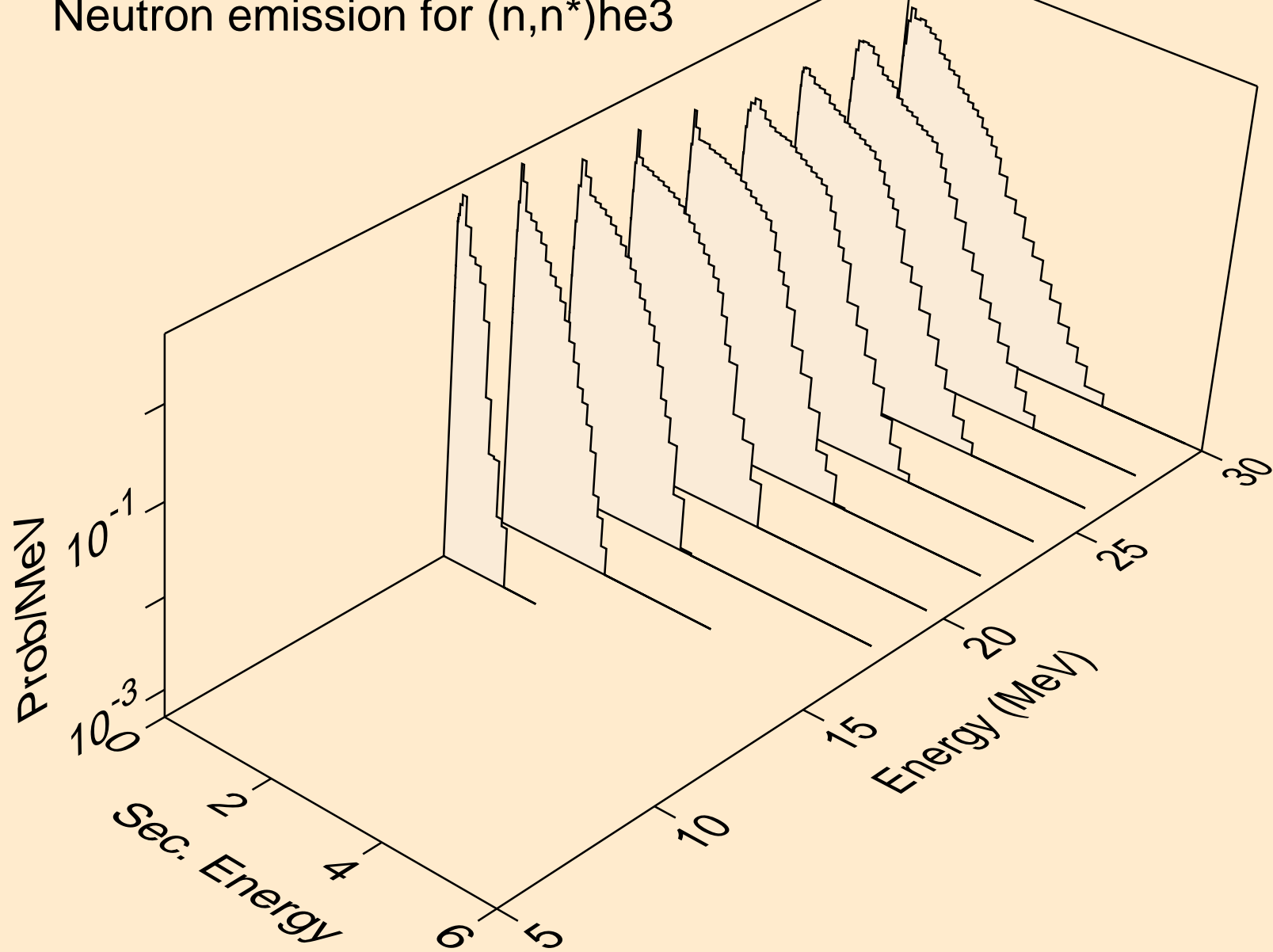
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

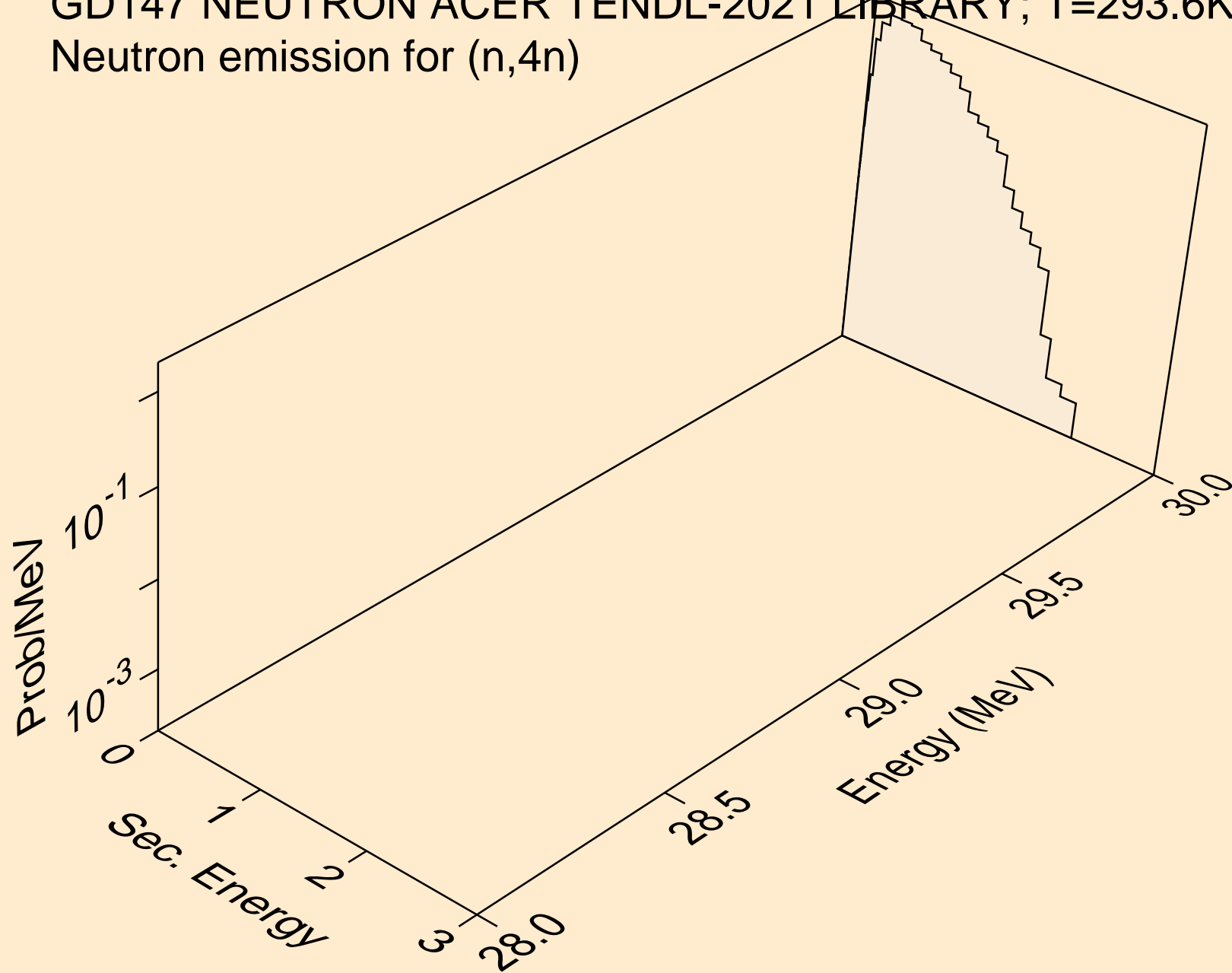


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

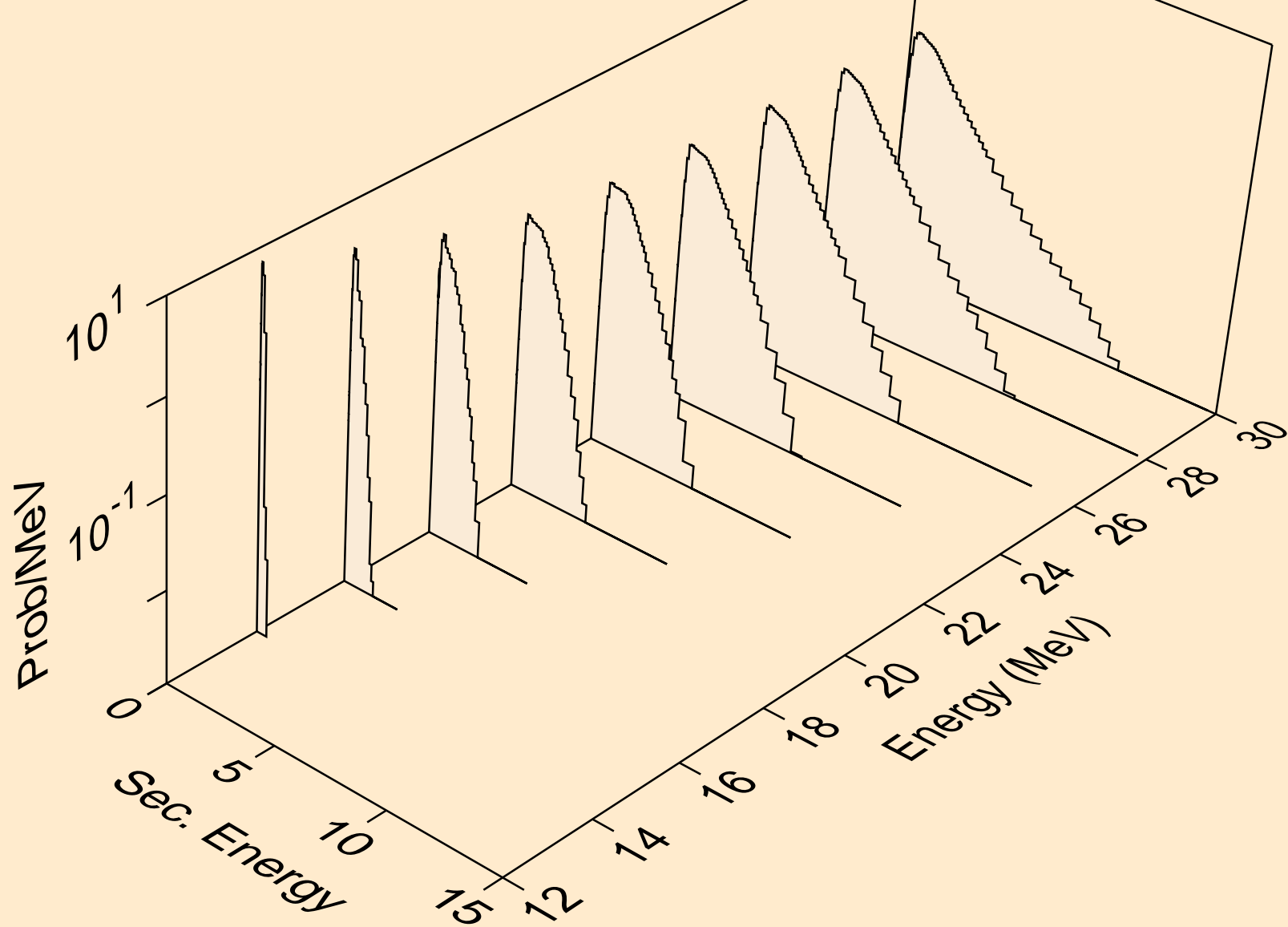




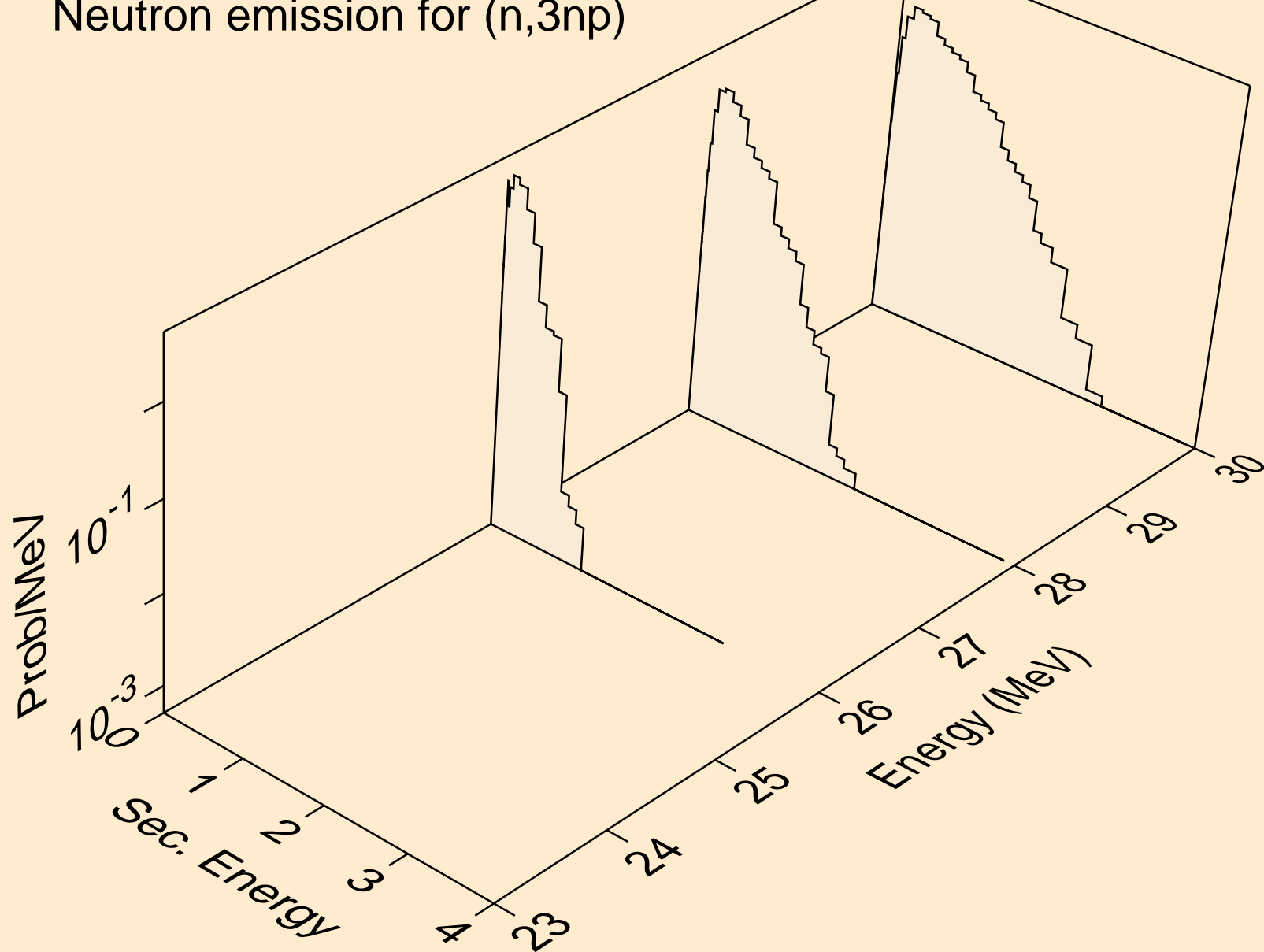
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Neutron emission for (n,4n)



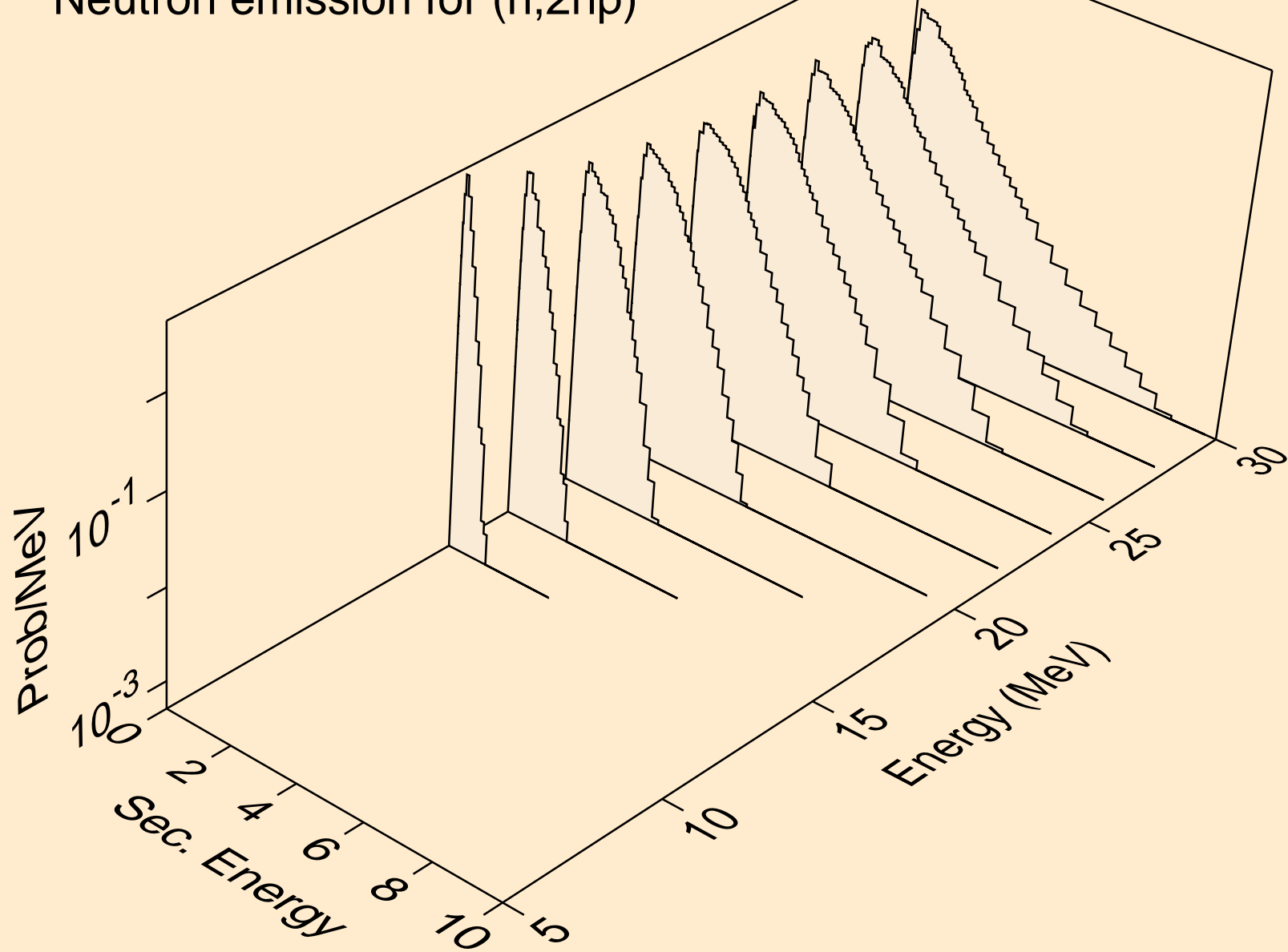
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



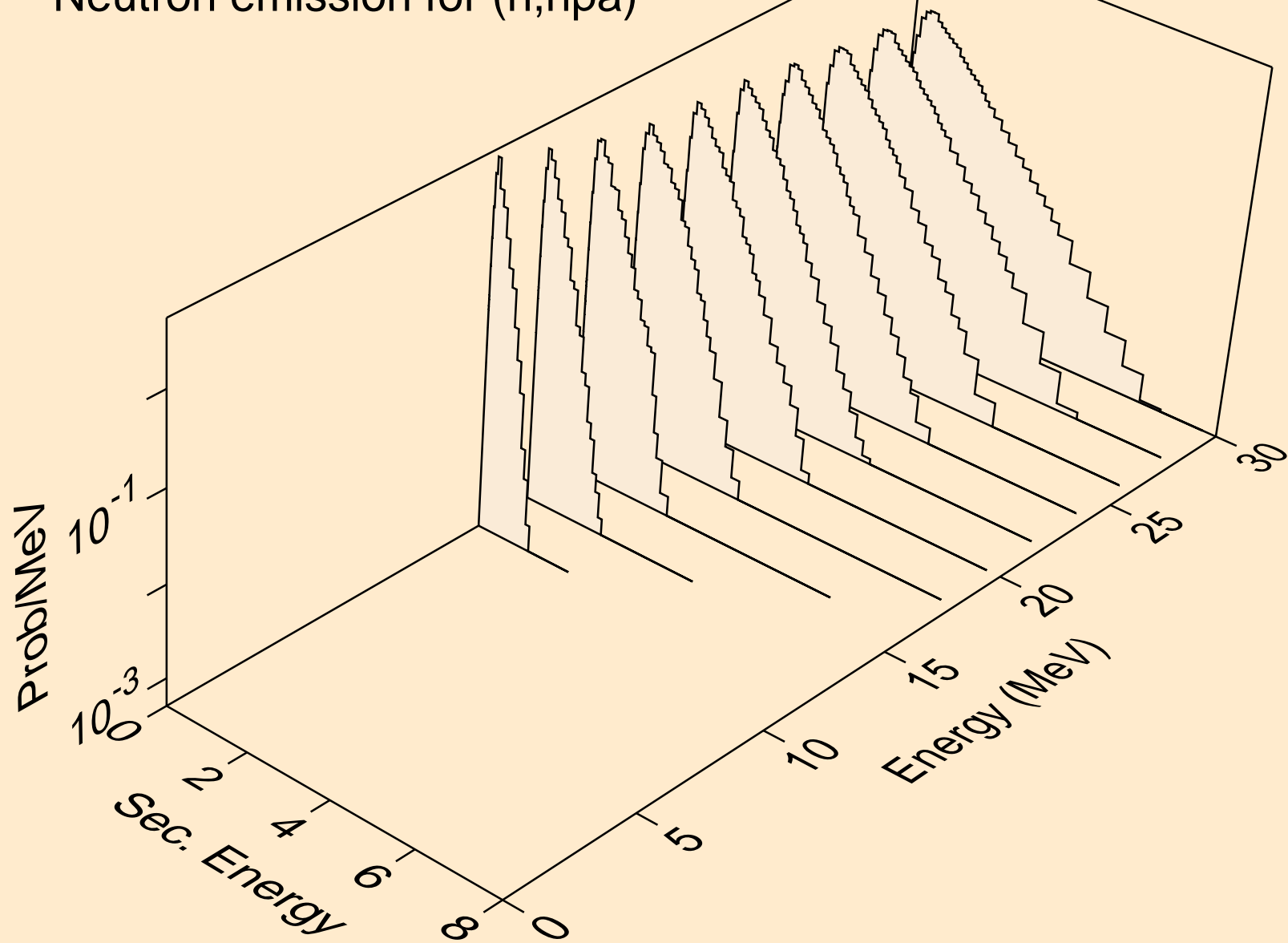
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Neutron emission for (n,3np)



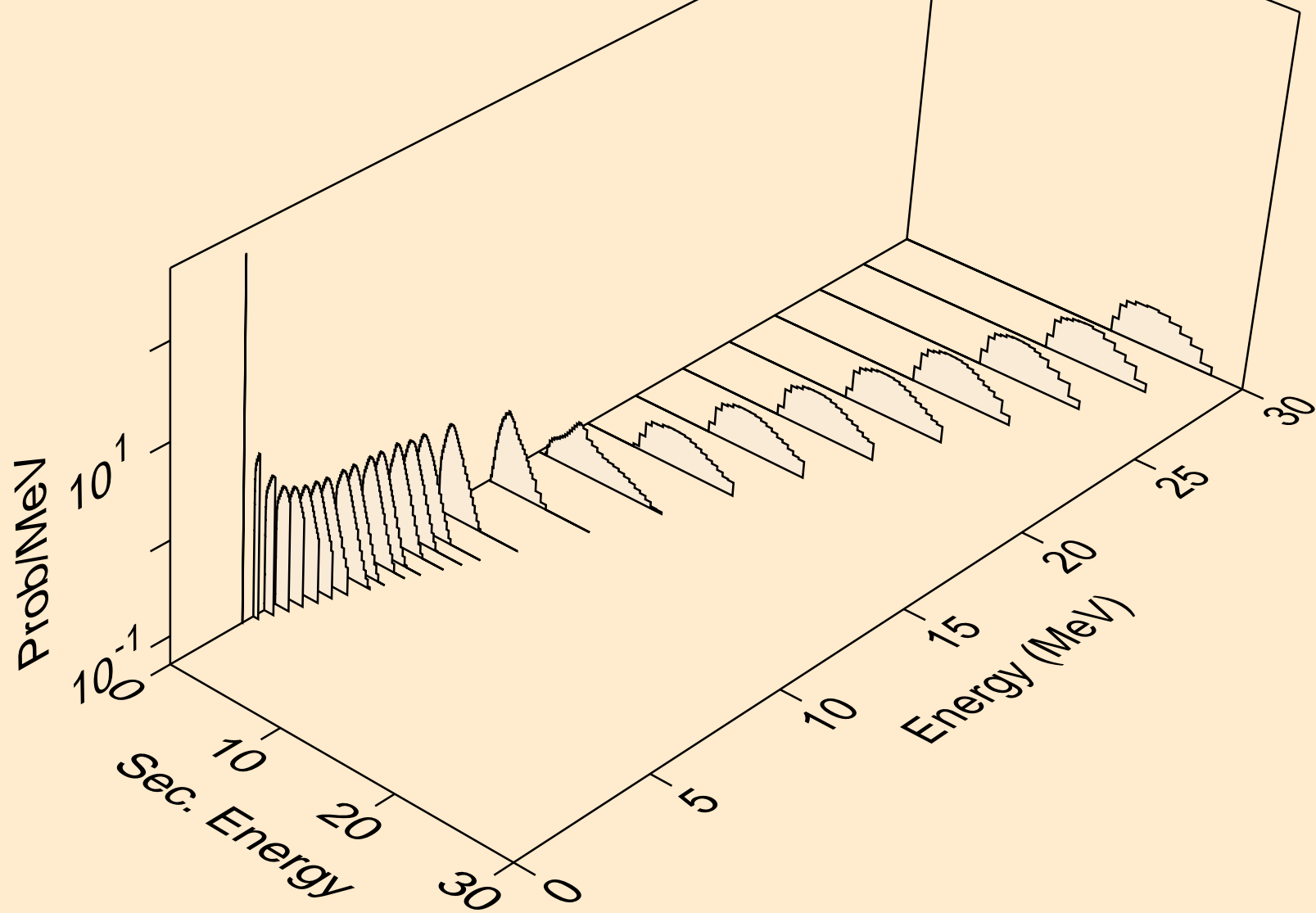
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Neutron emission for (n,2np)



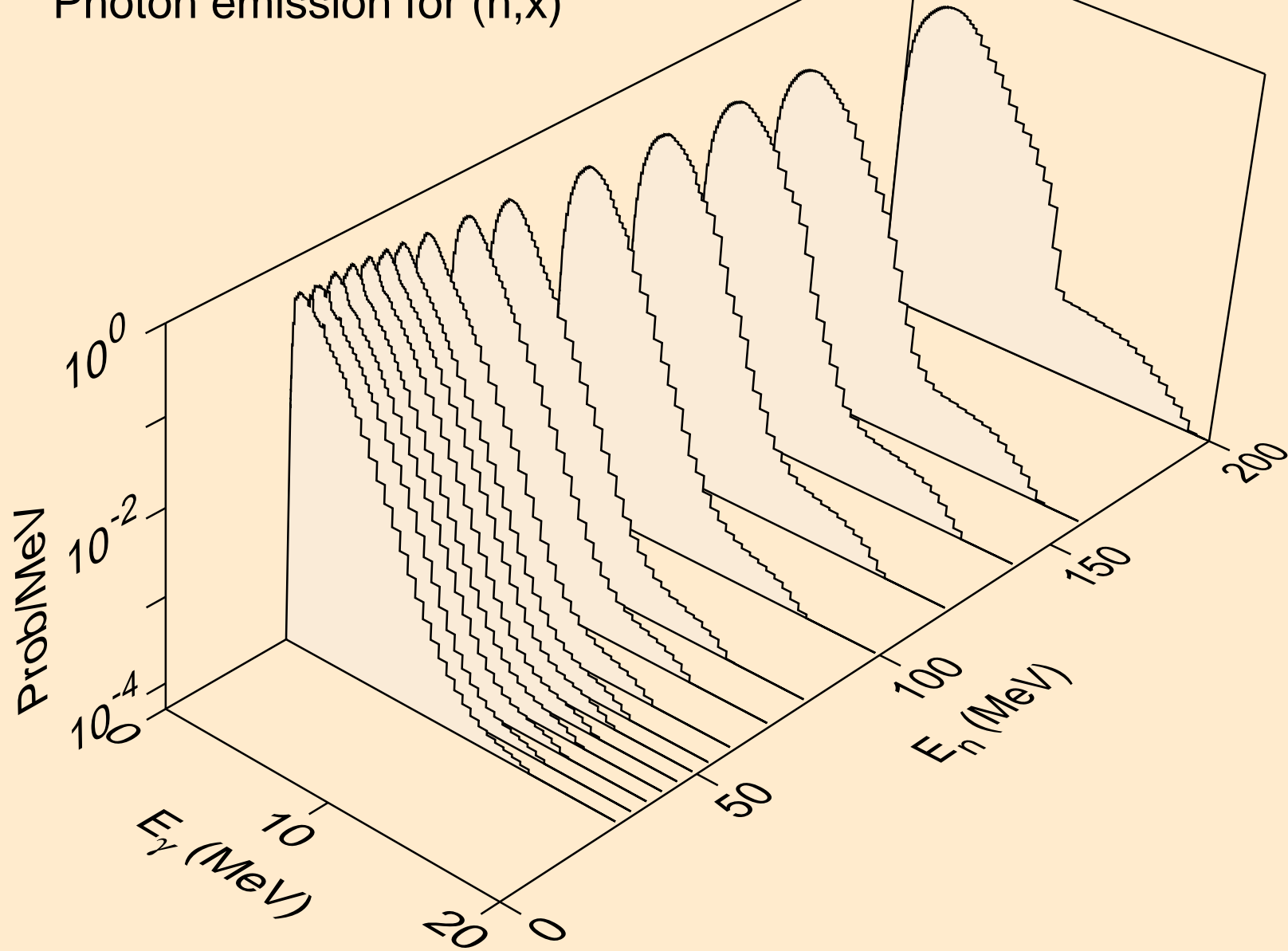
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Neutron emission for (n,npa)



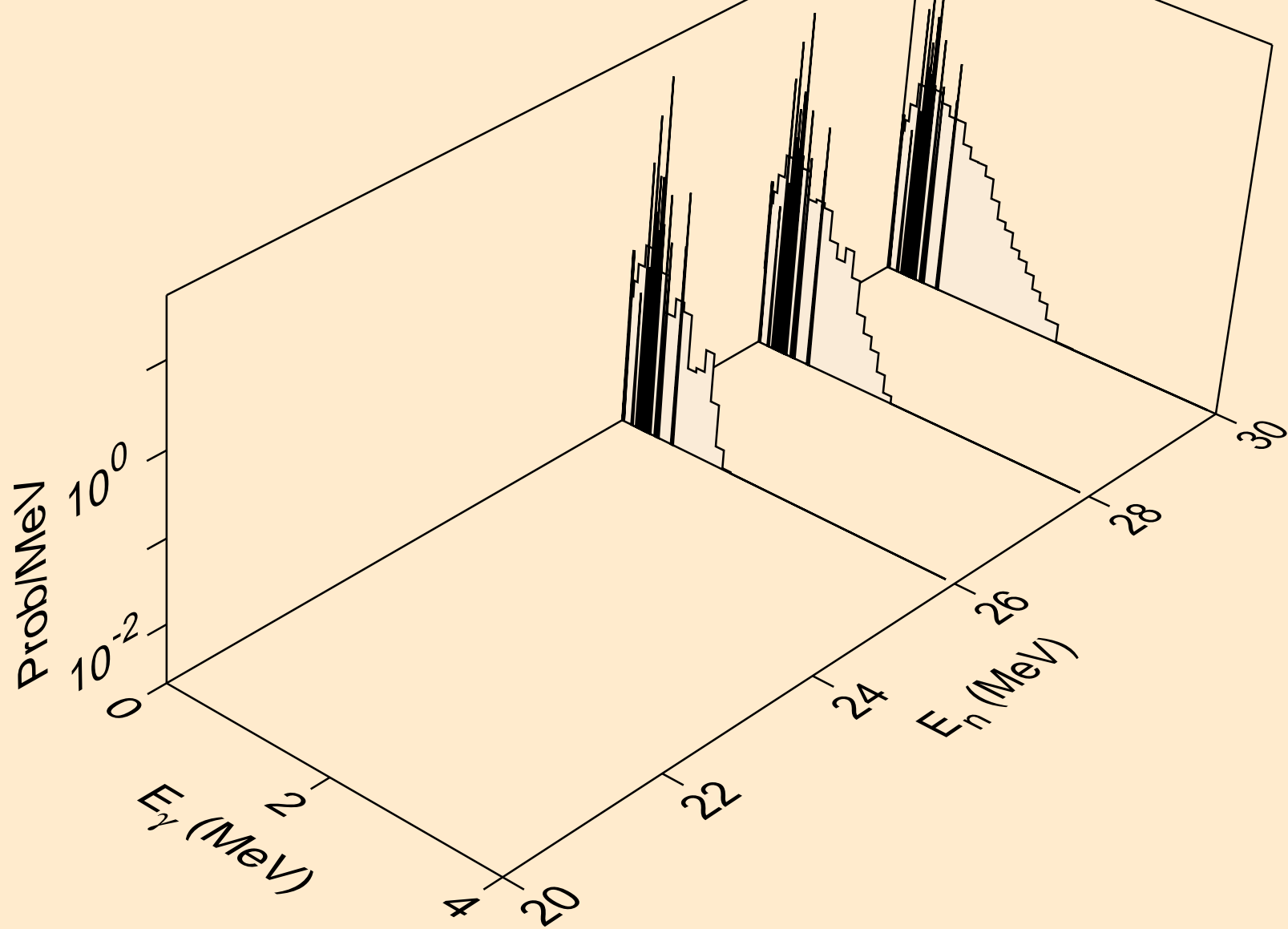
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)

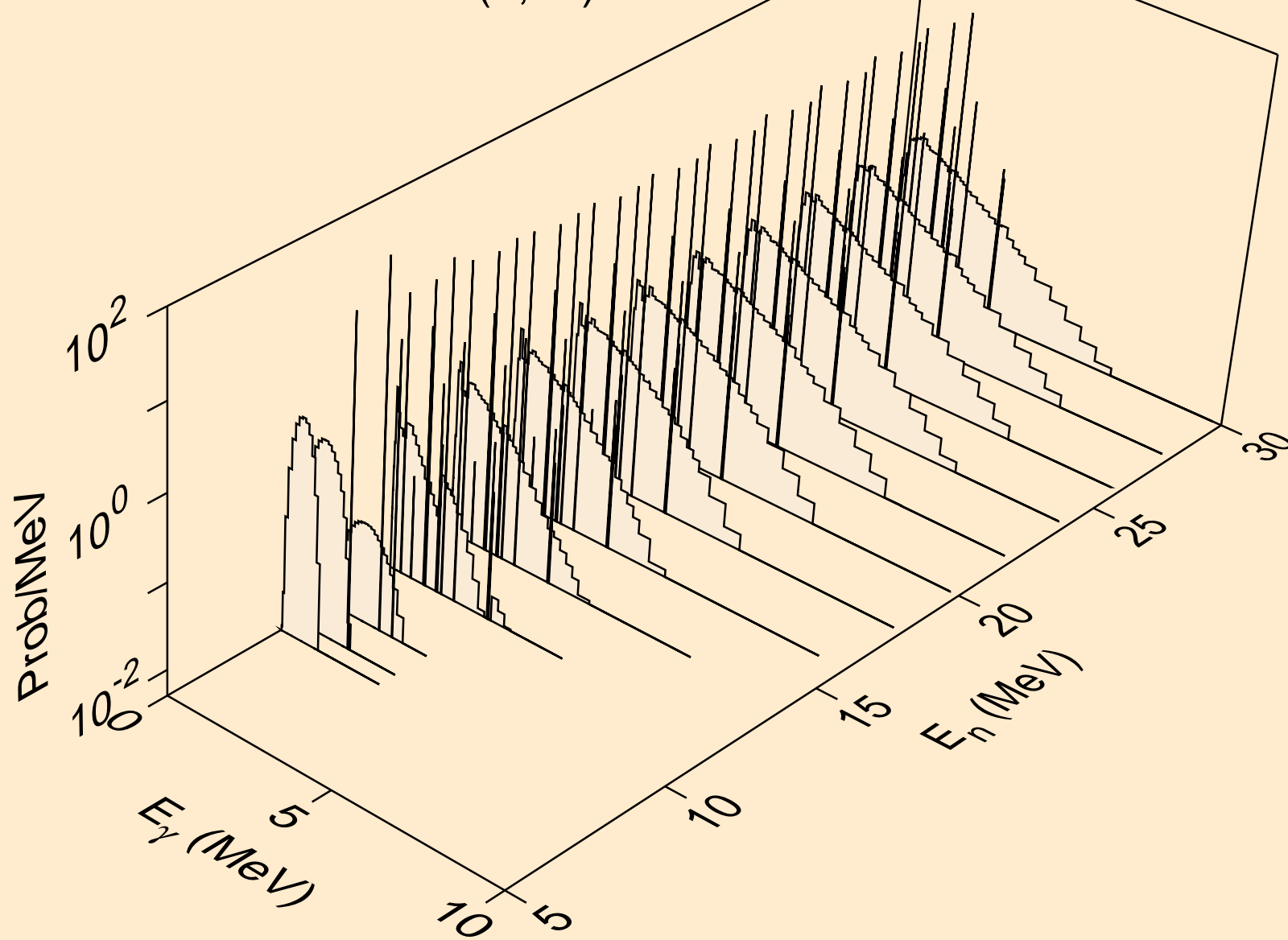


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Photon emission for (n,2nd)

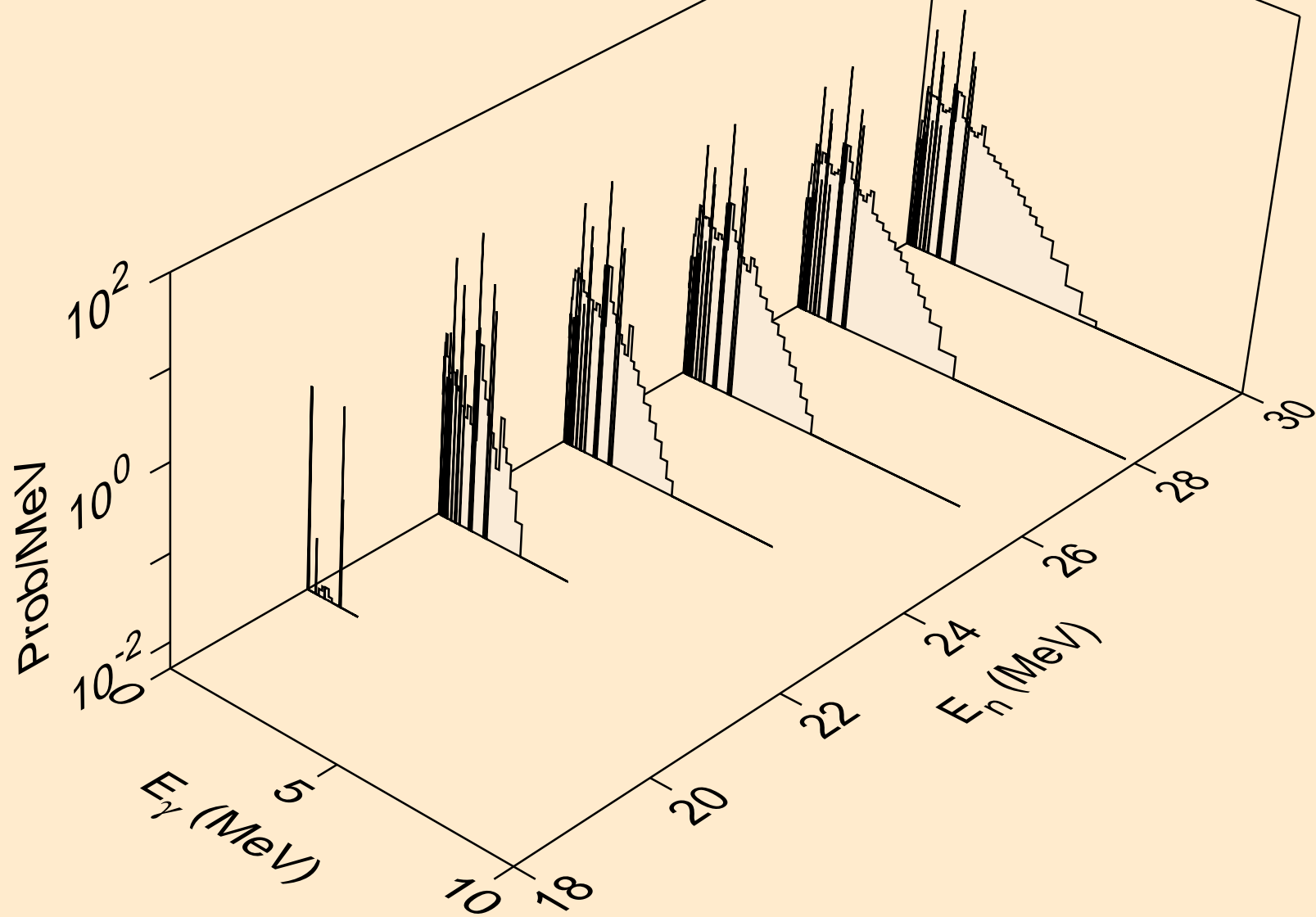




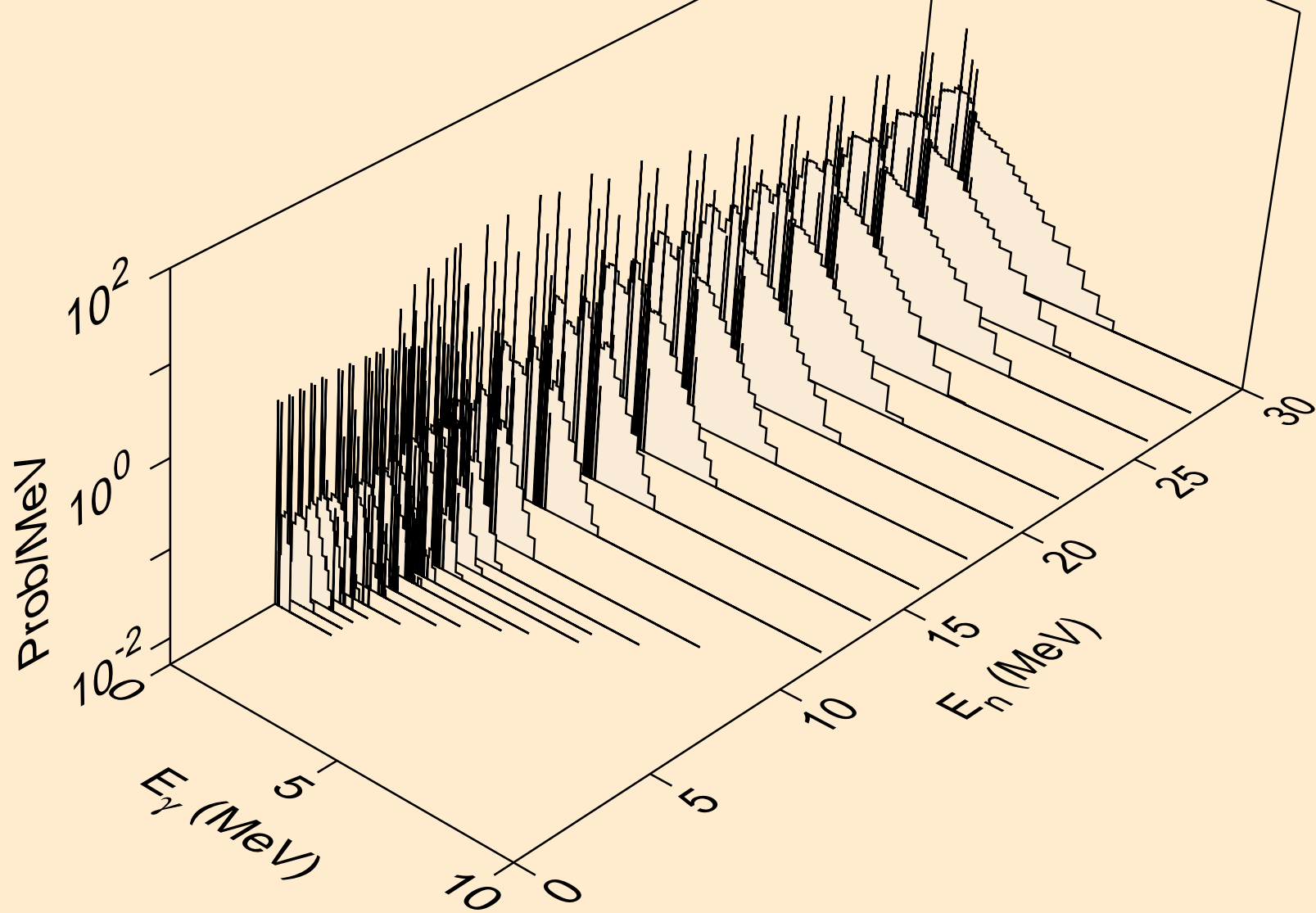
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Photon emission for (n,2n)



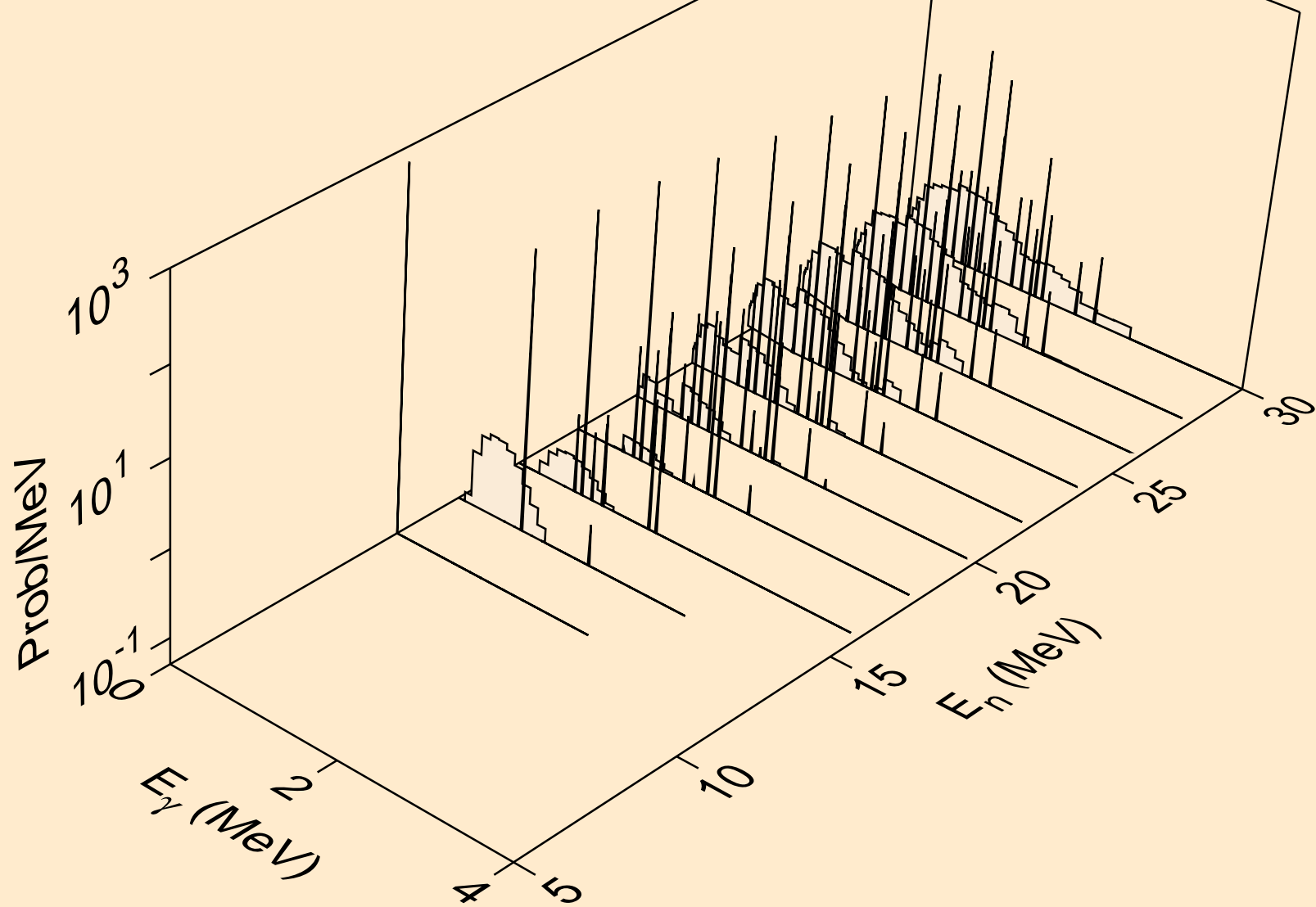
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Photon emission for (n,3n)



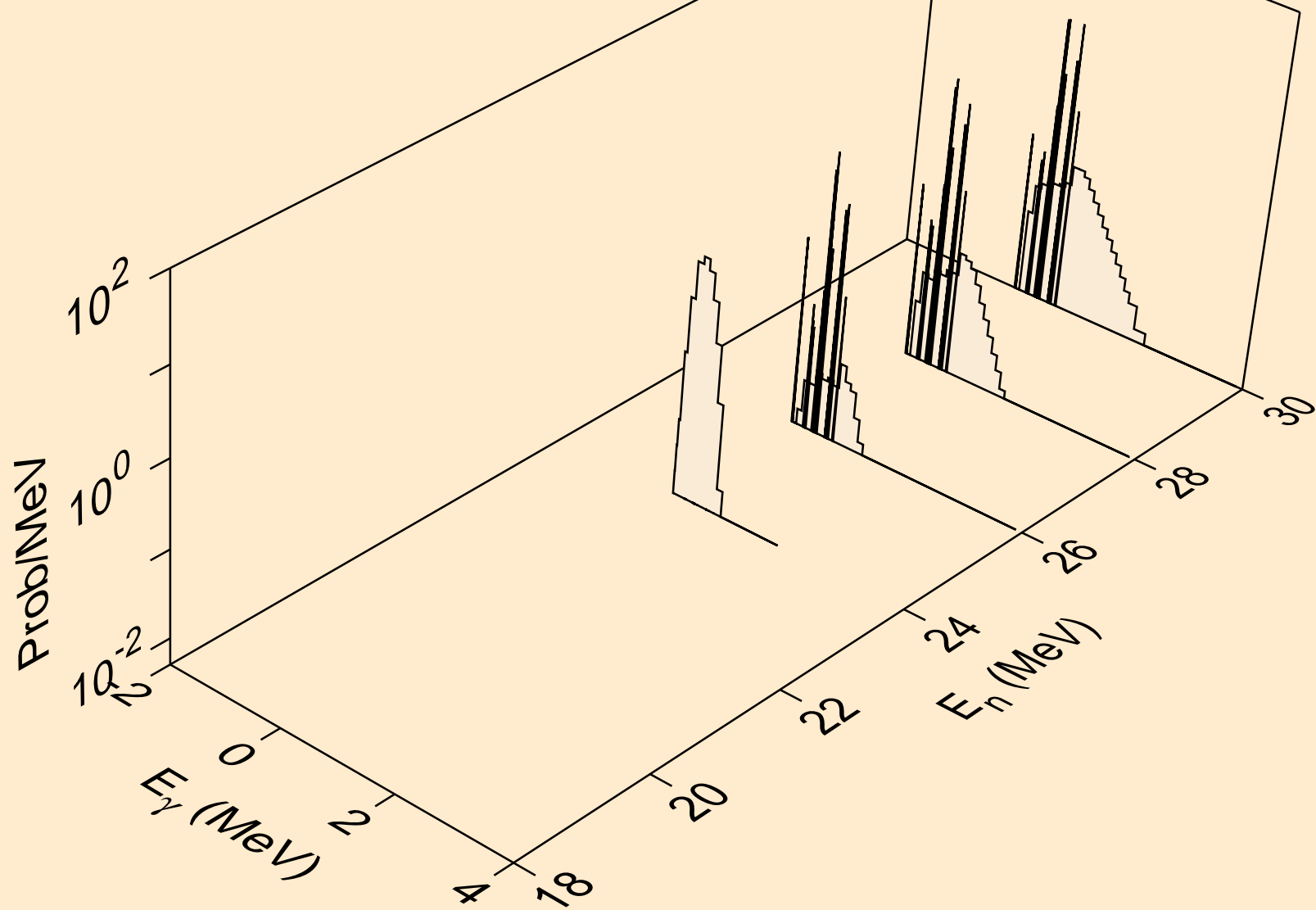
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Photon emission for (n,n\*)a



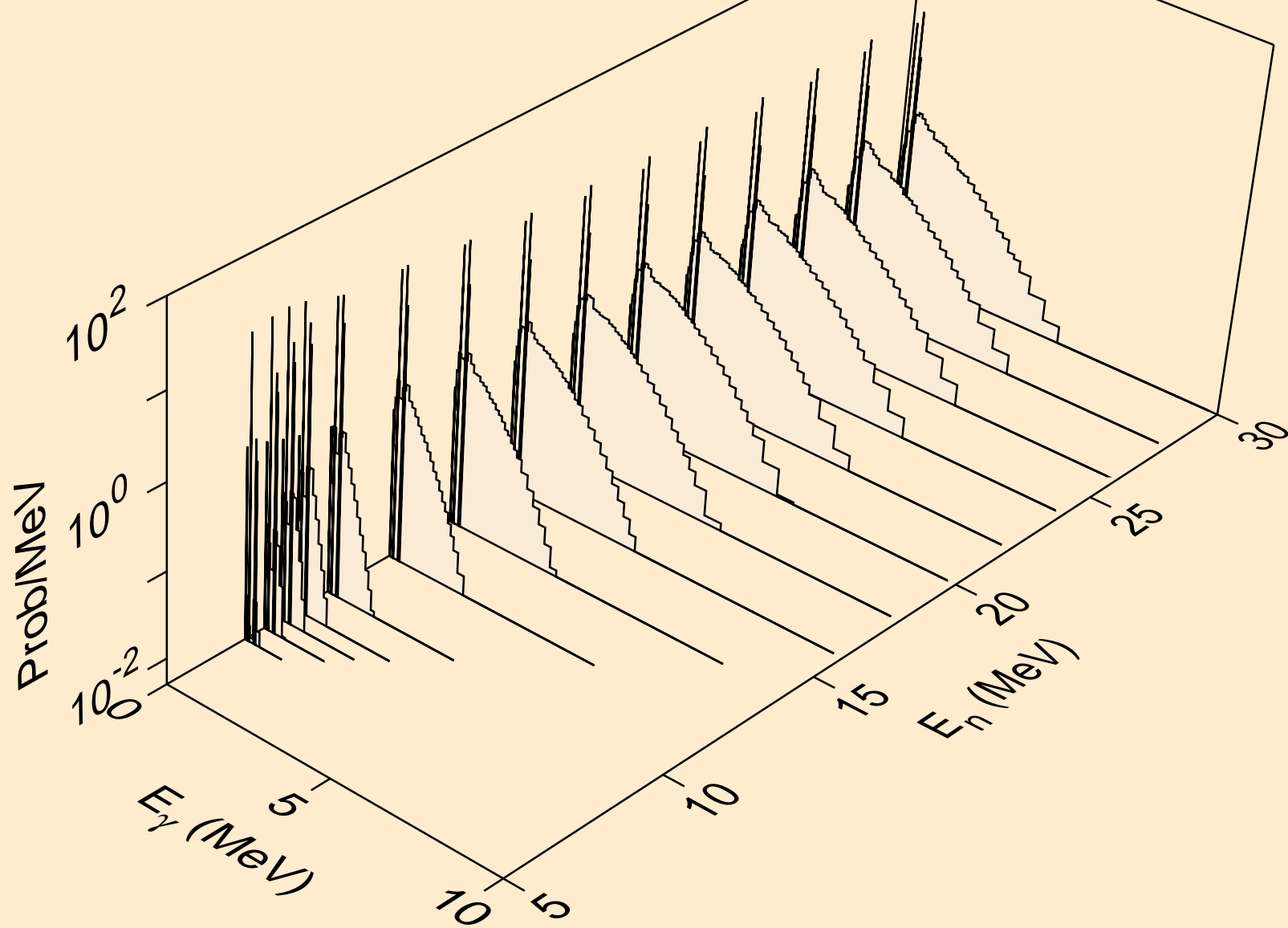
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Photon emission for (n,2n)a



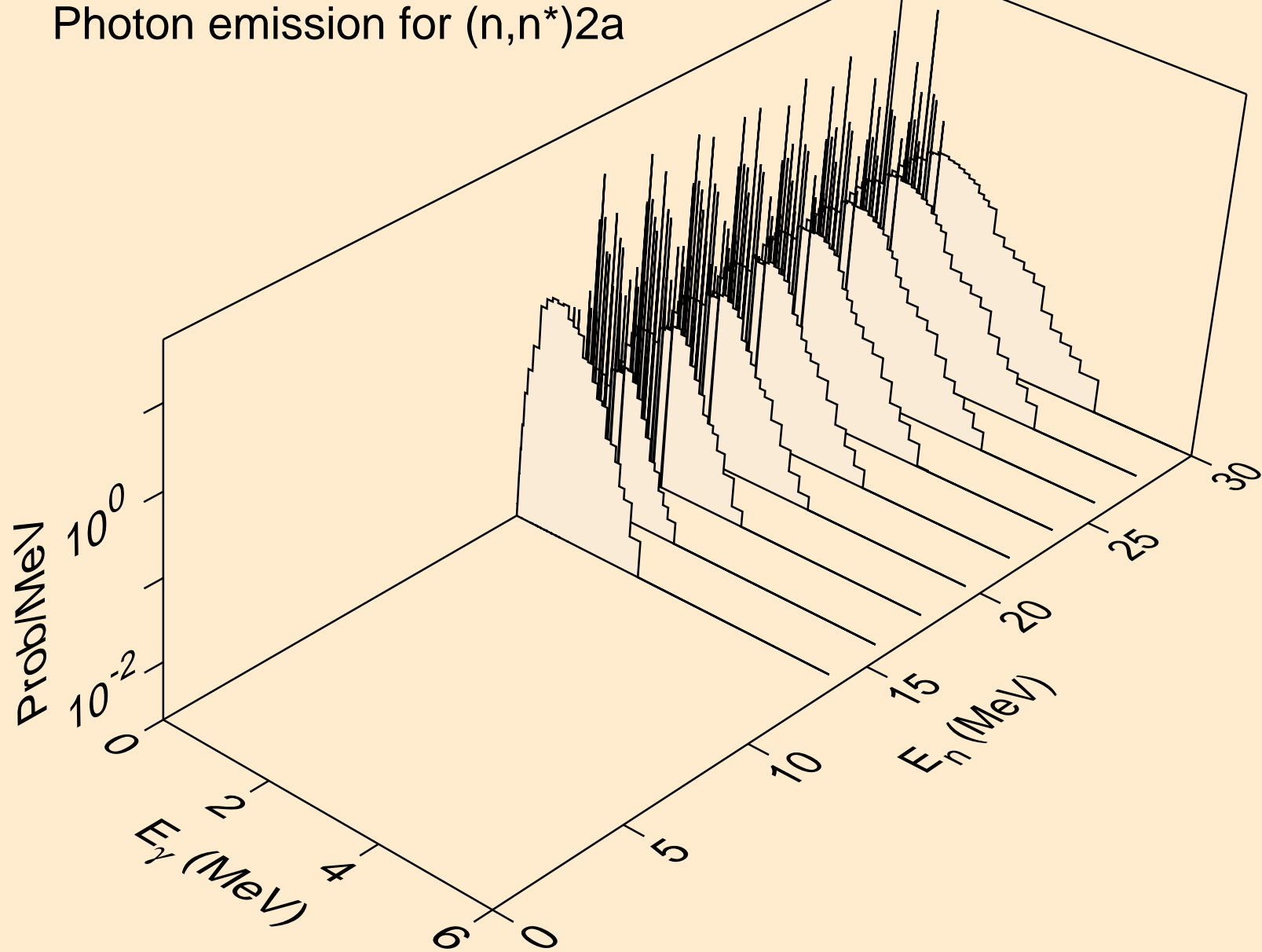
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Photon emission for (n,3n)a



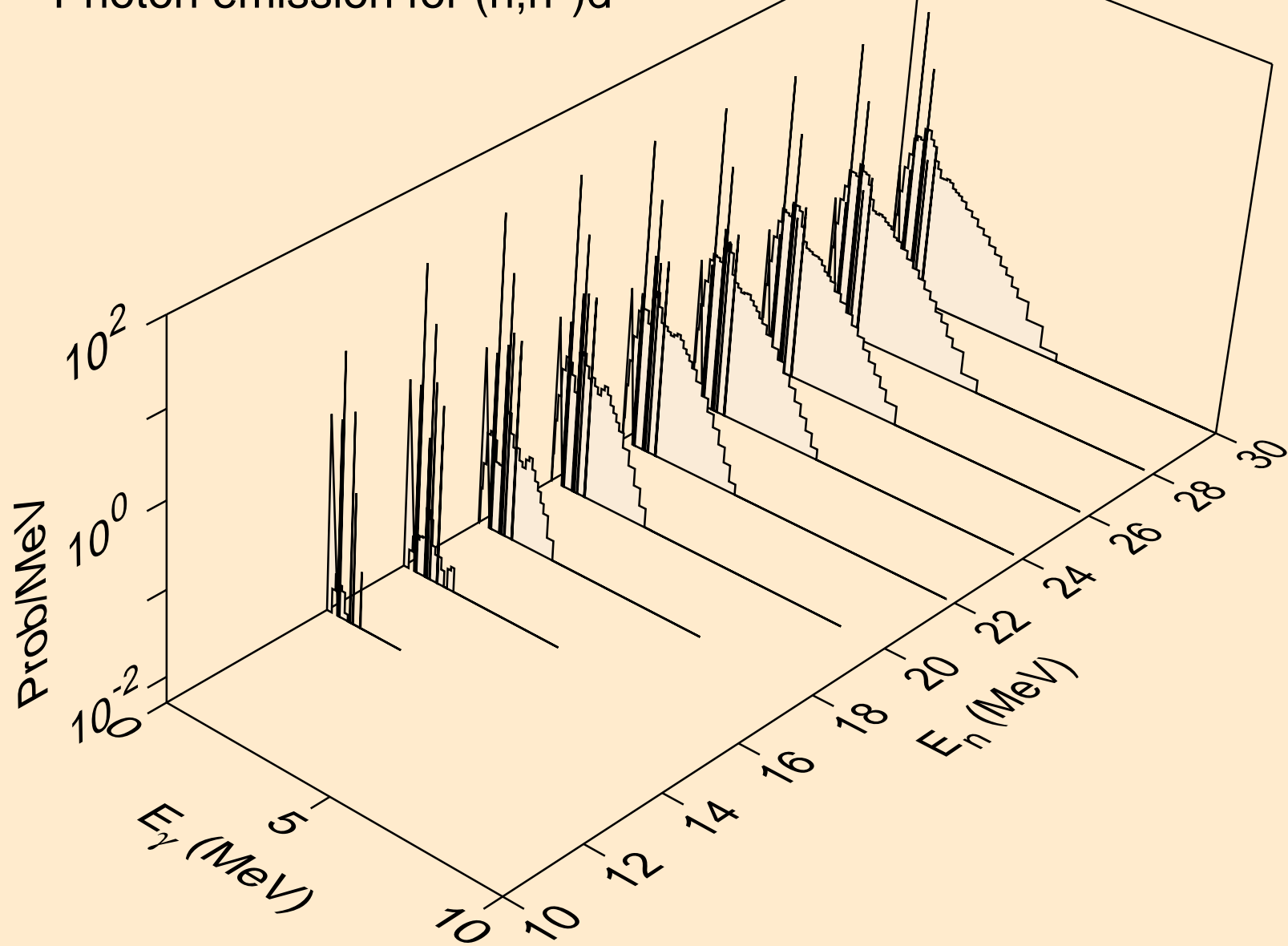
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Photon emission for (n,n\*)p



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a

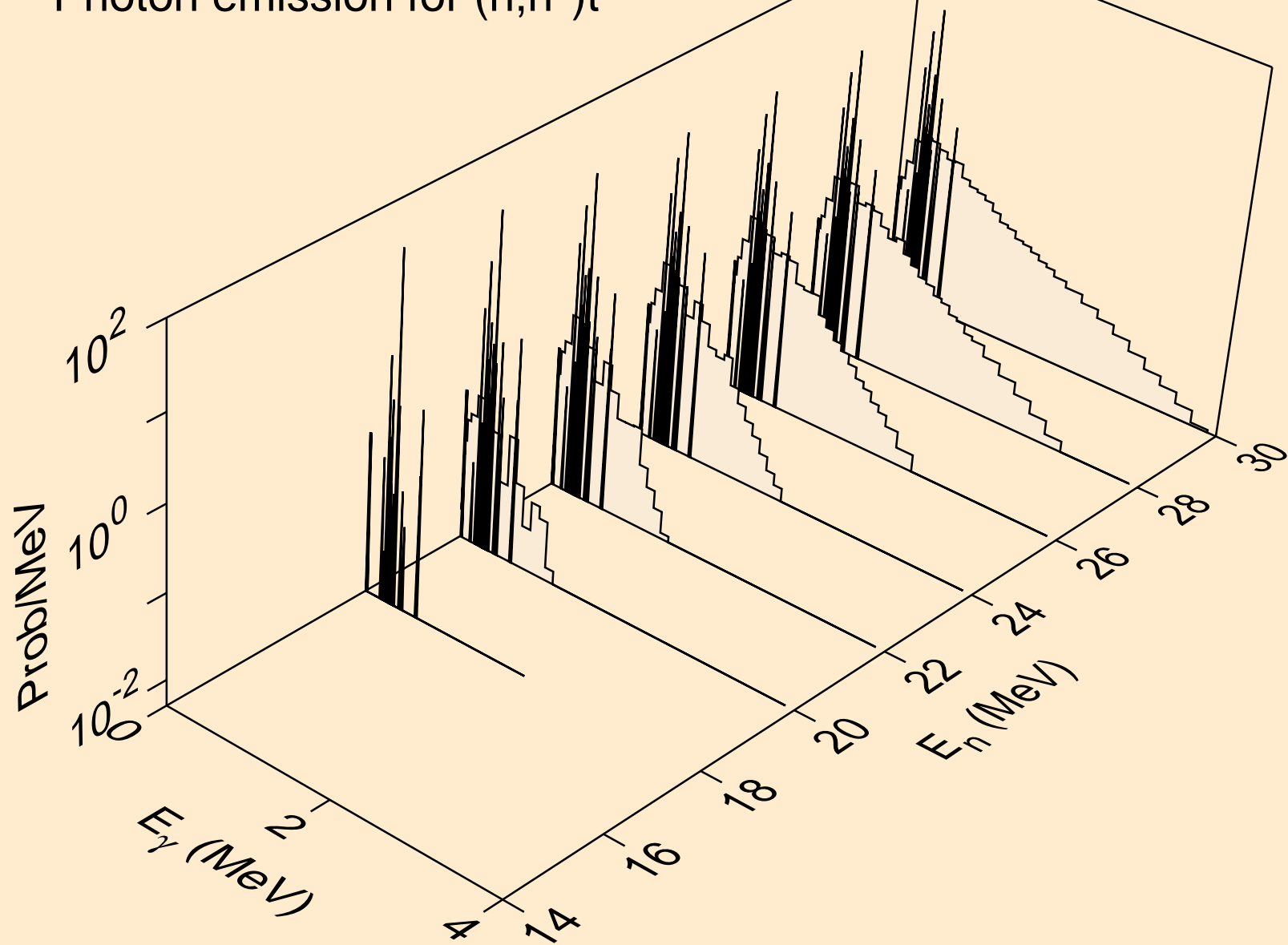


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Photon emission for (n,n\*)d

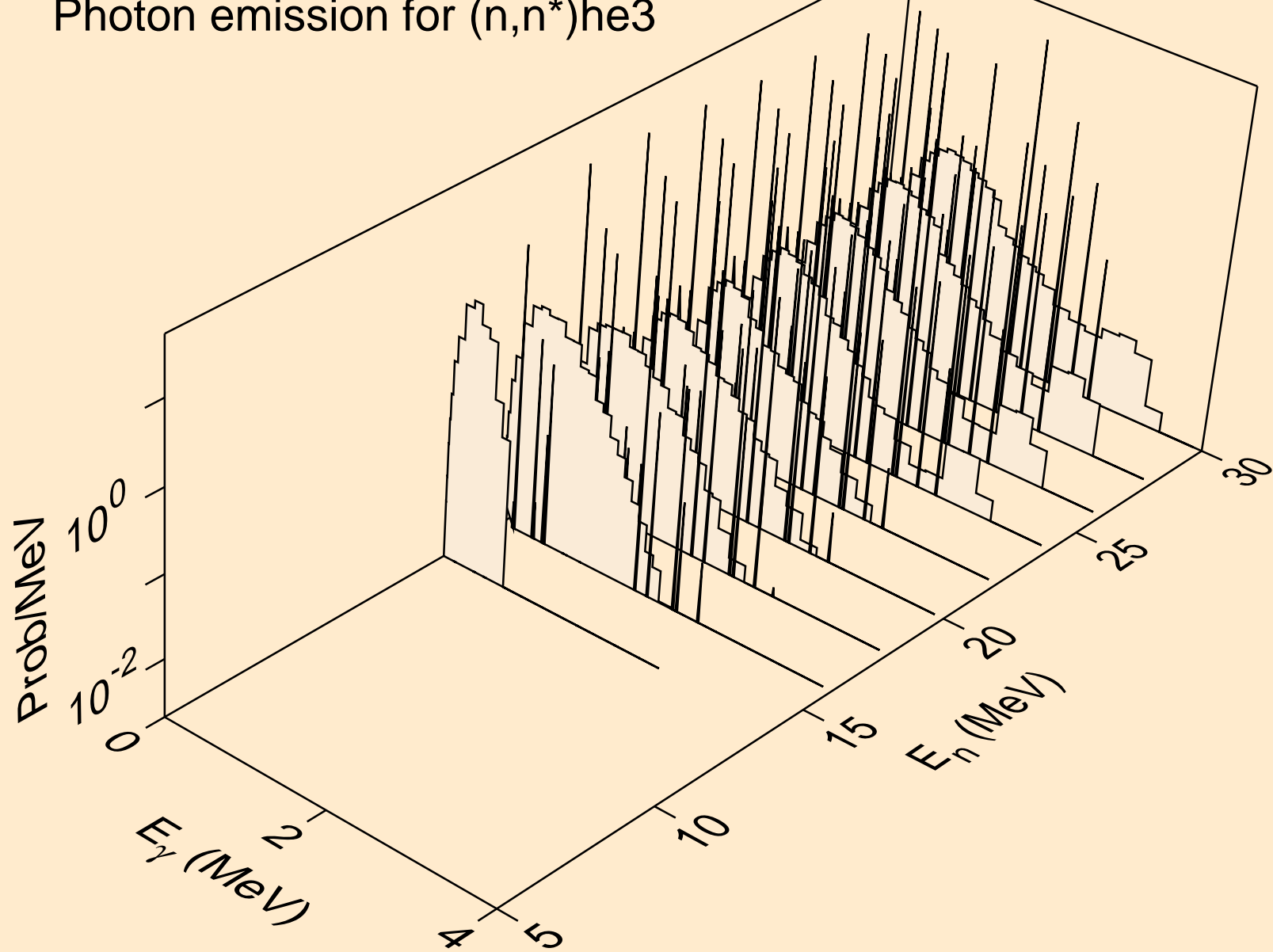




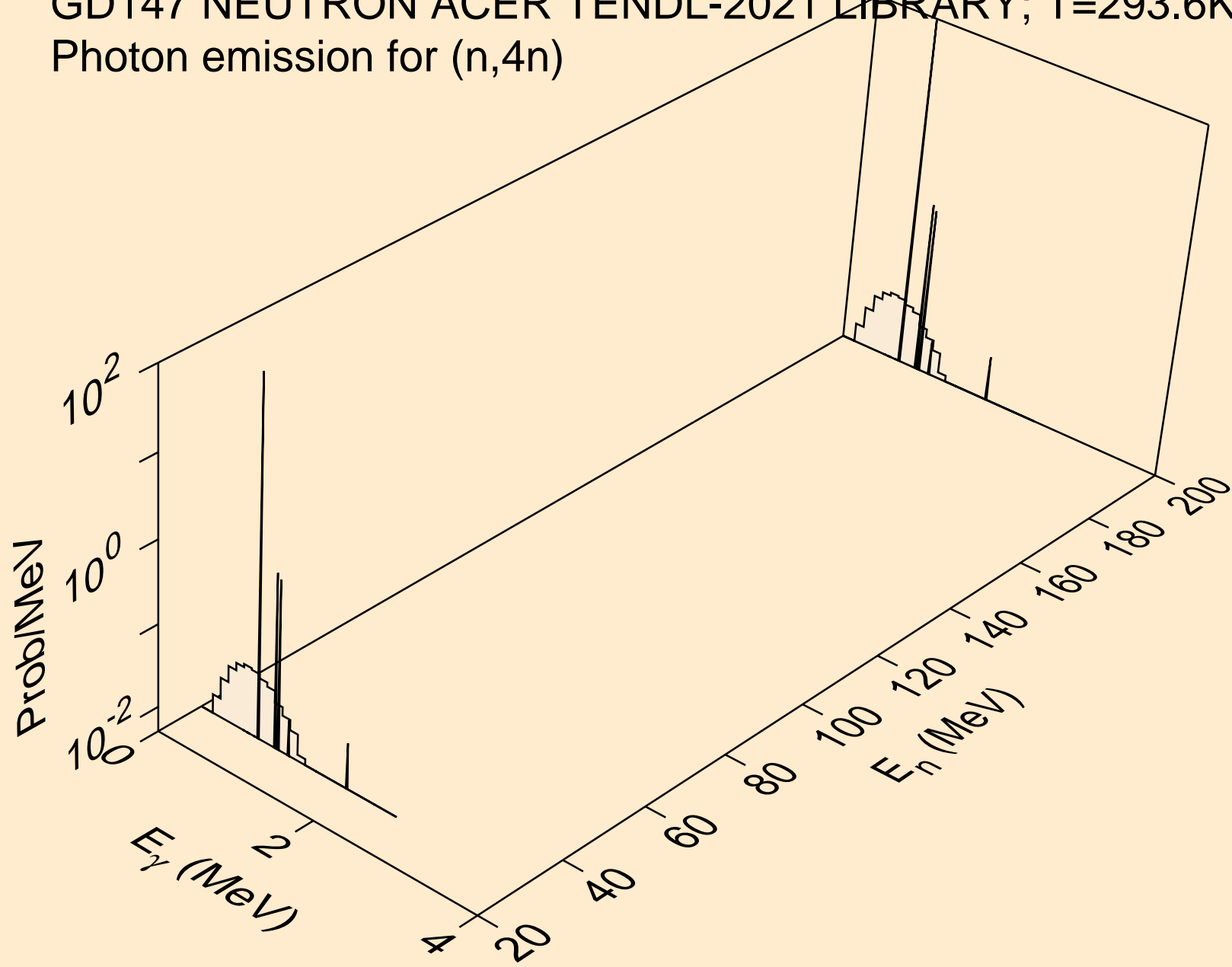
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Photon emission for (n,n\*)t



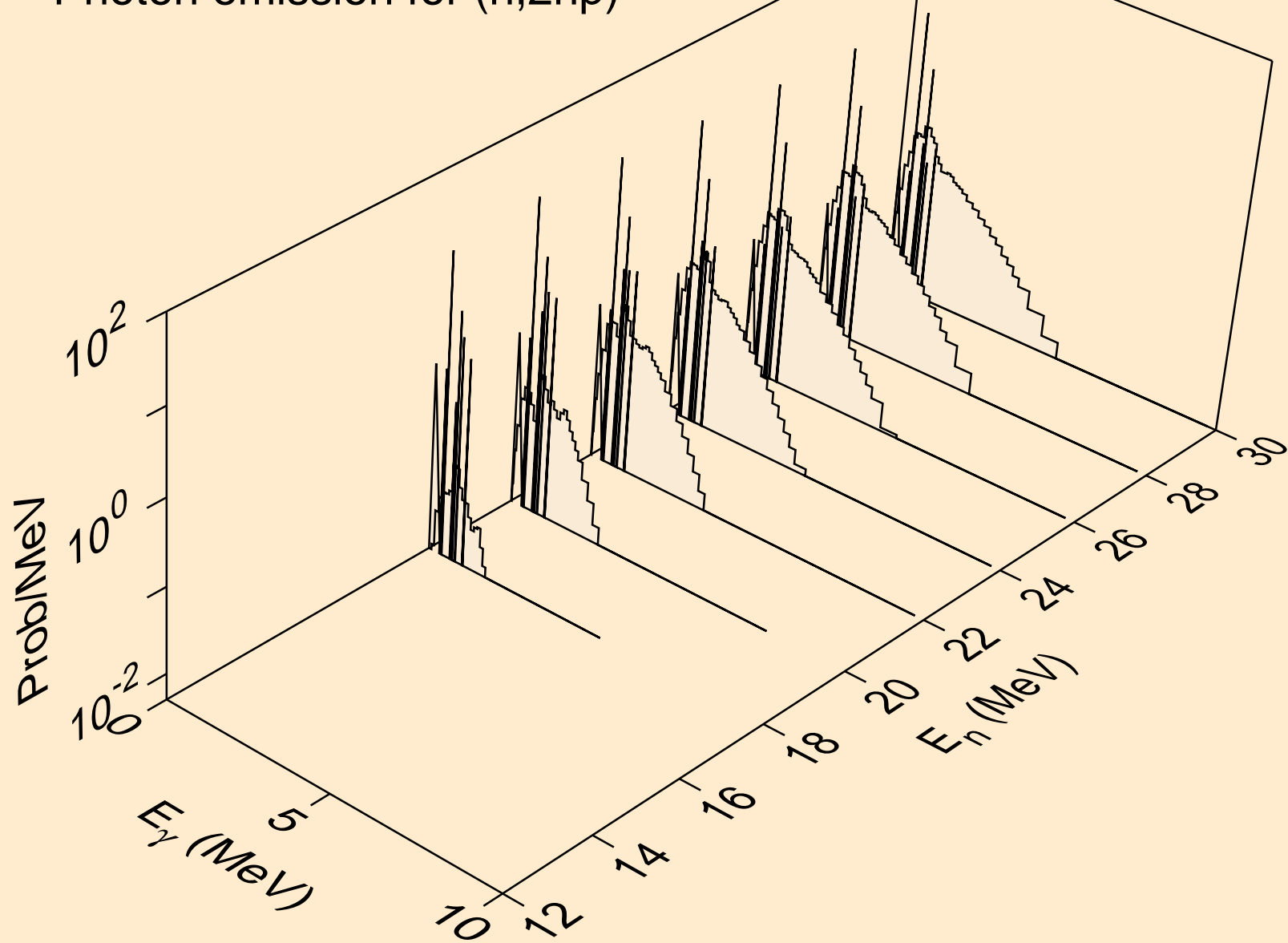
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Photon emission for (n,n\*)he3



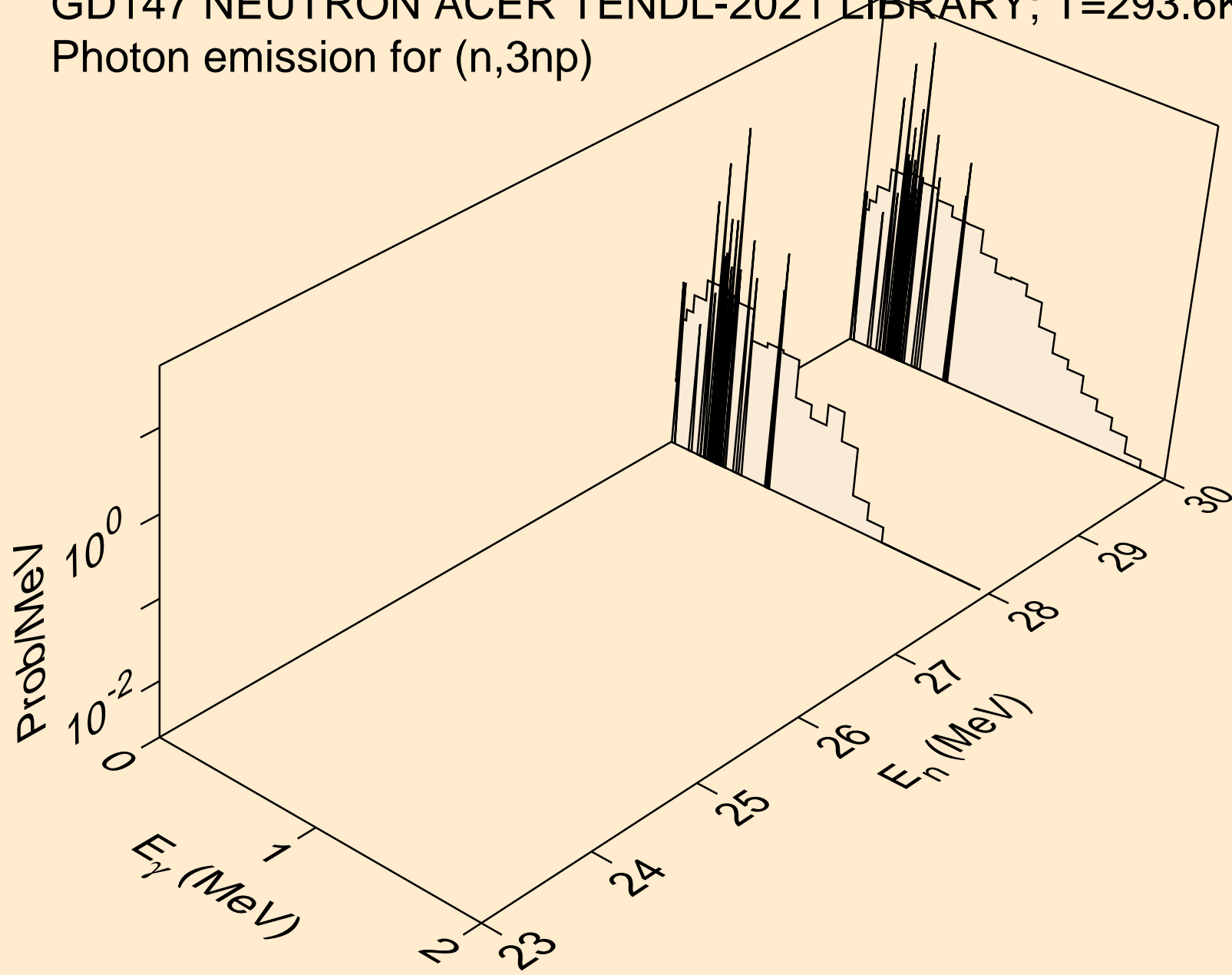
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Photon emission for (n,4n)



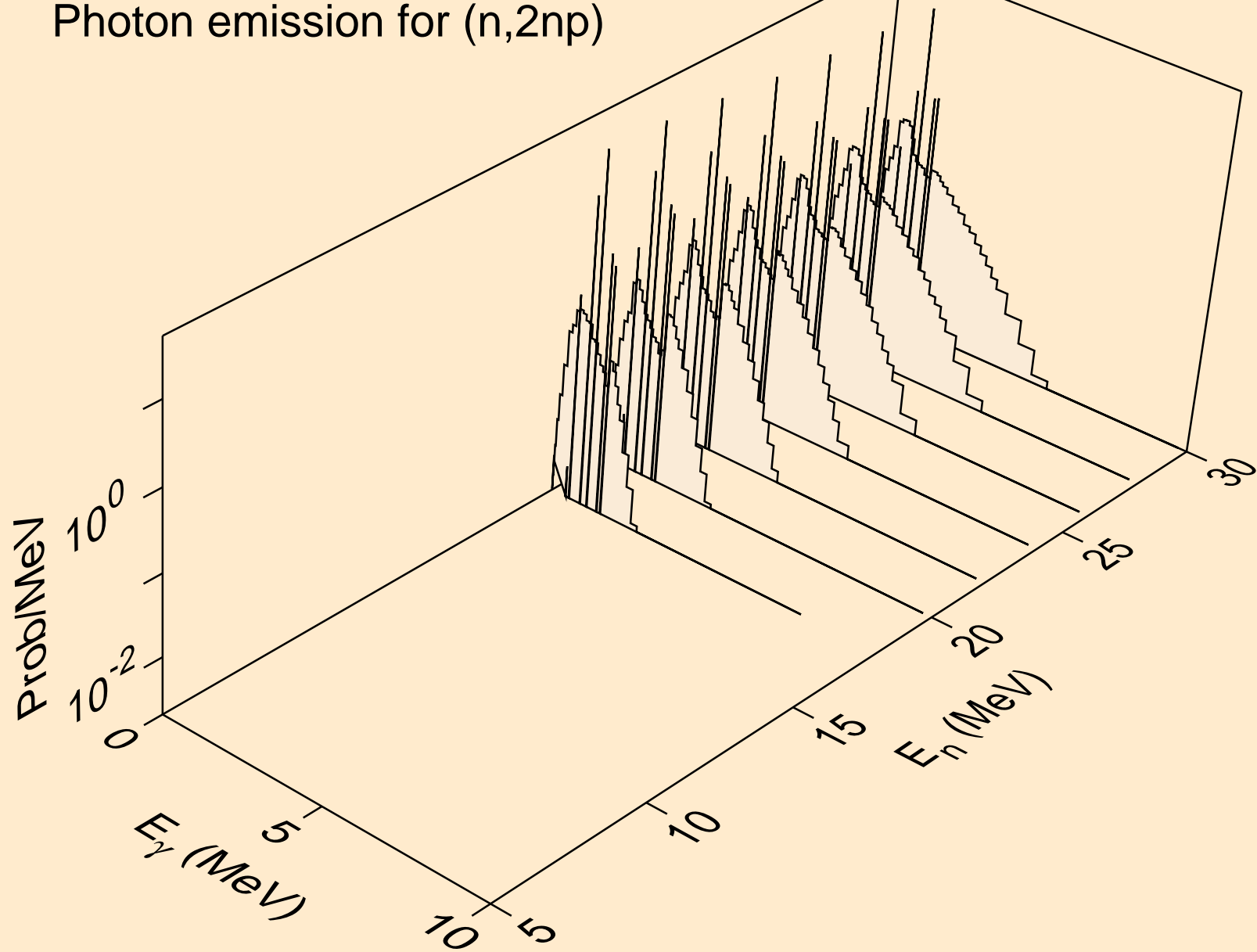
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Photon emission for (n,2np)



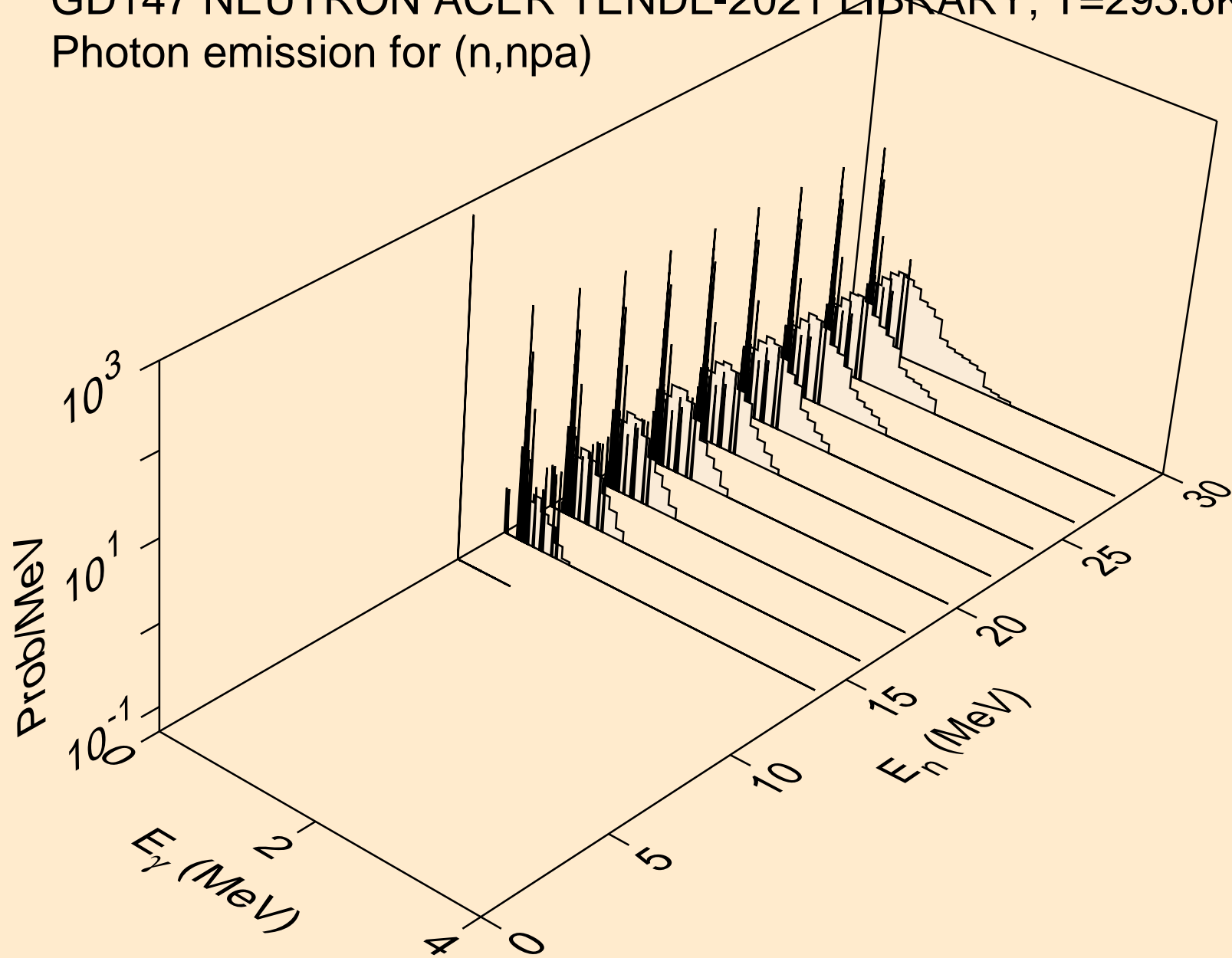
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Photon emission for (n,3np)



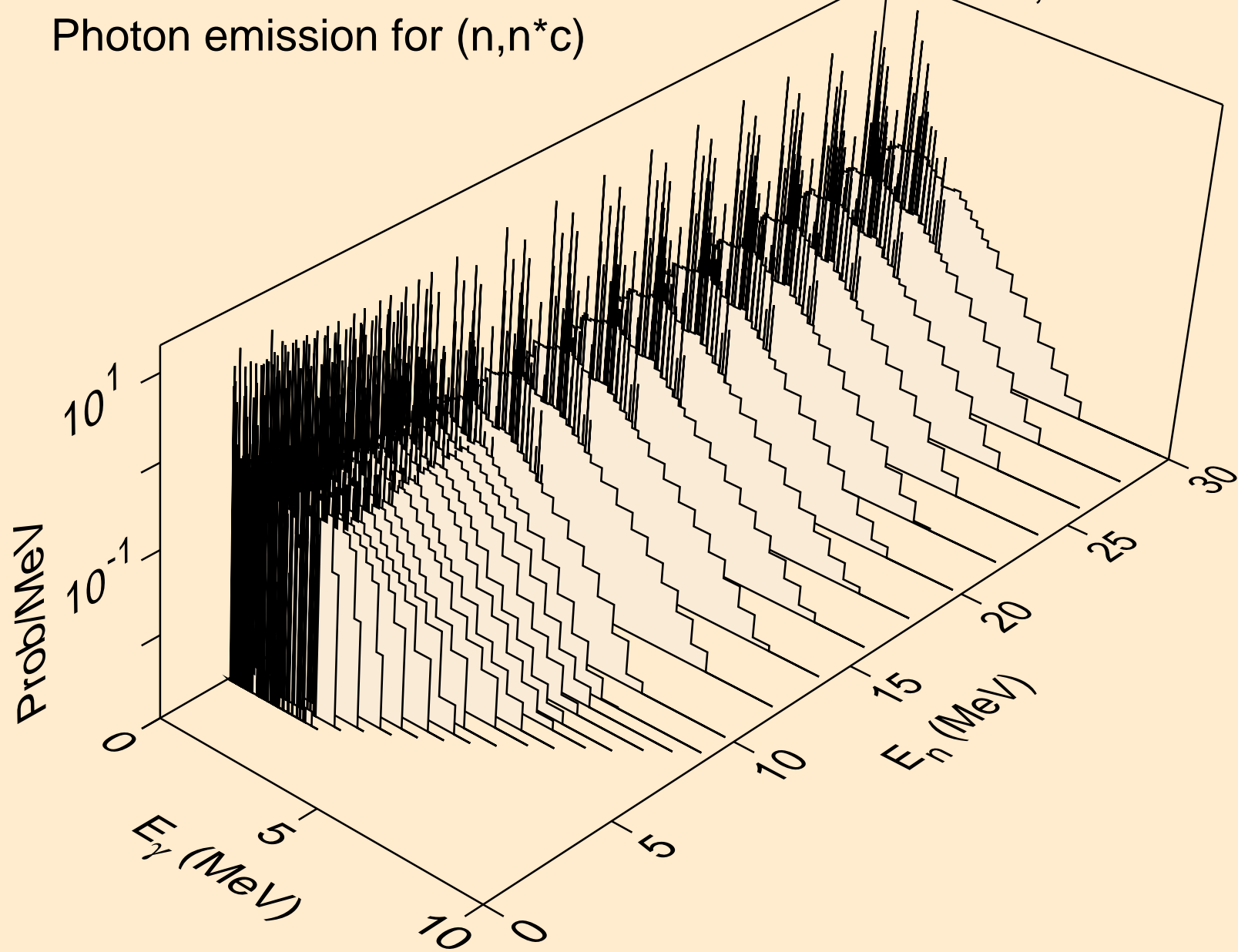
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Photon emission for (n,2np)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

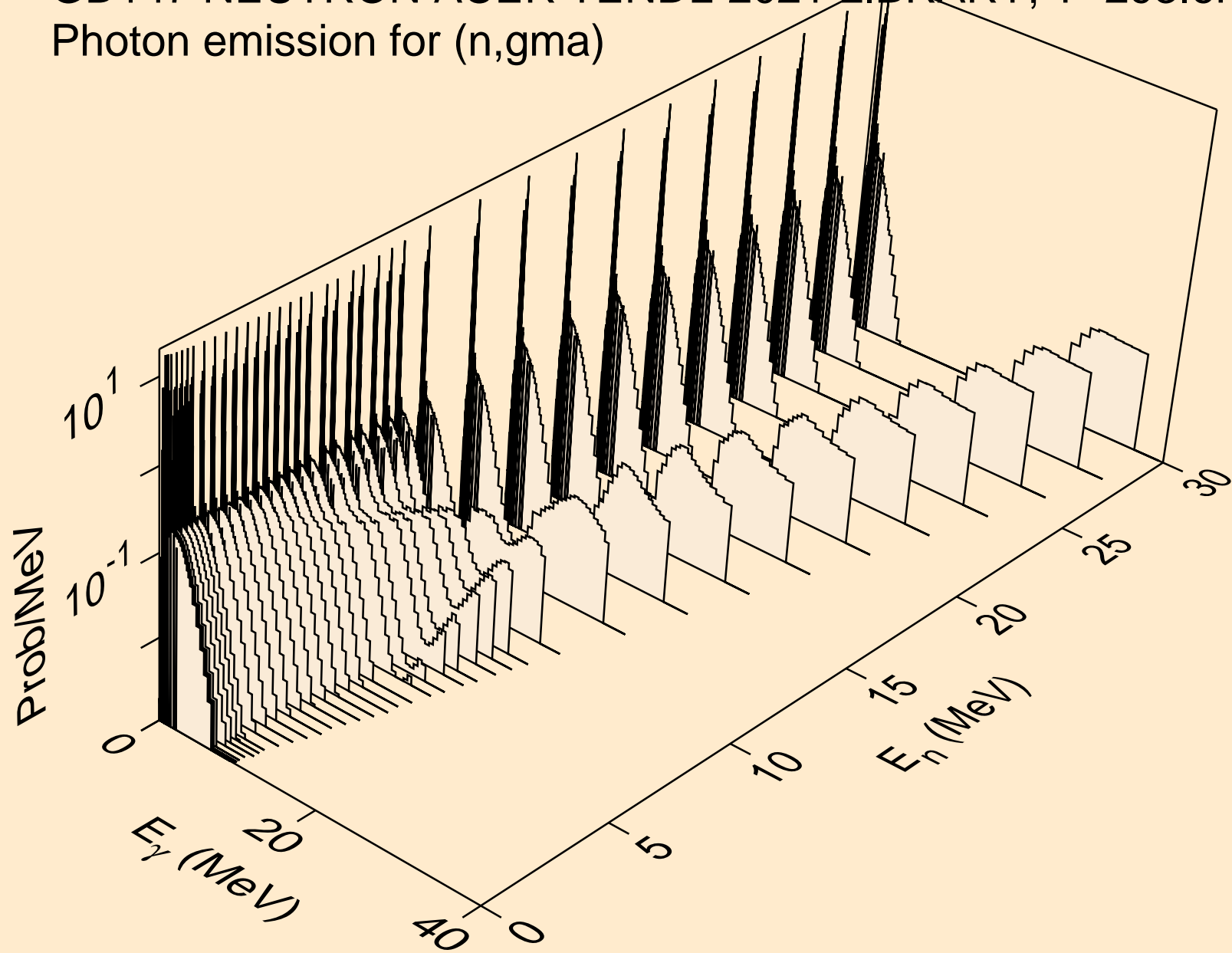


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Photon emission for (n,n\*c)

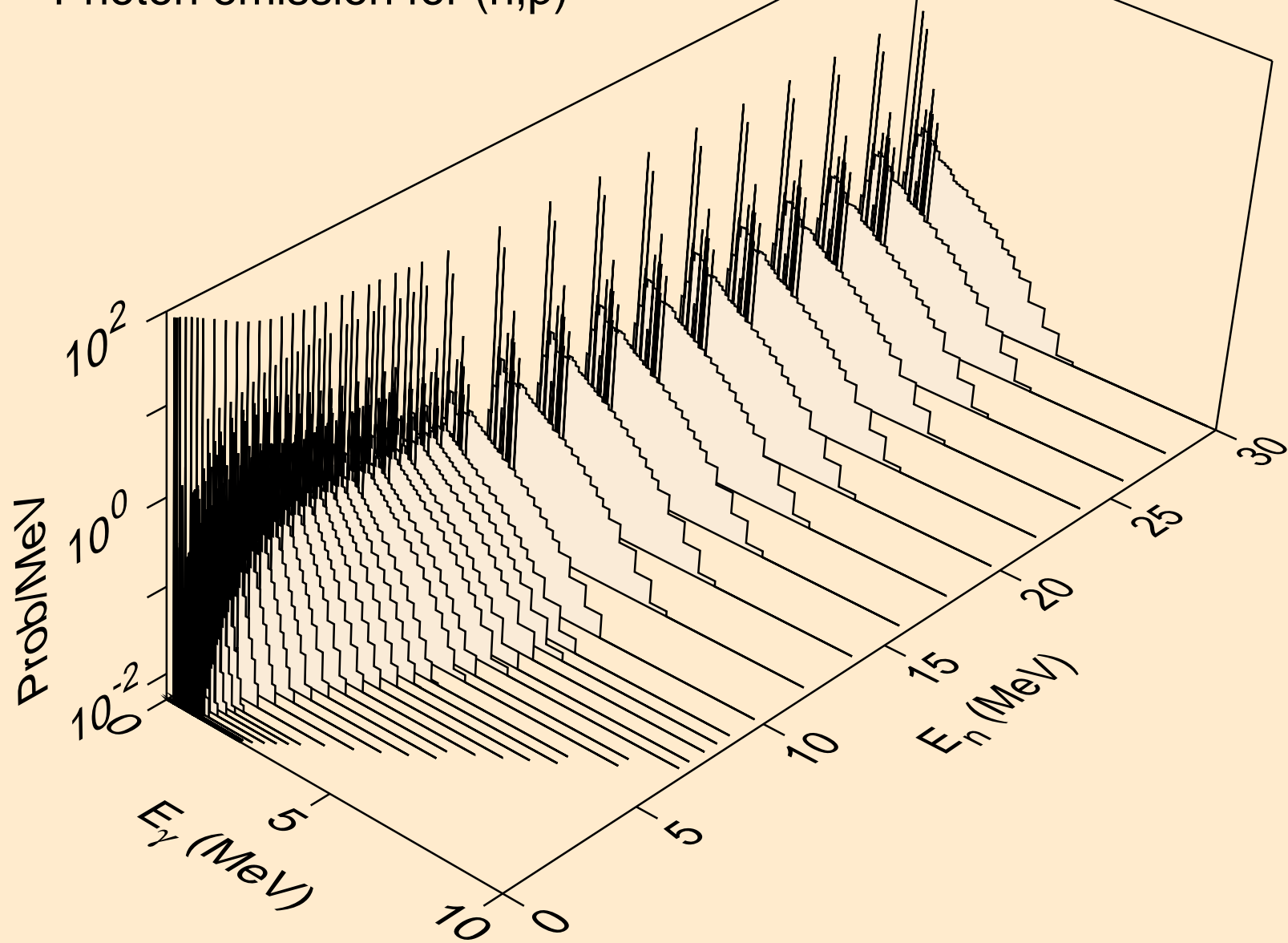




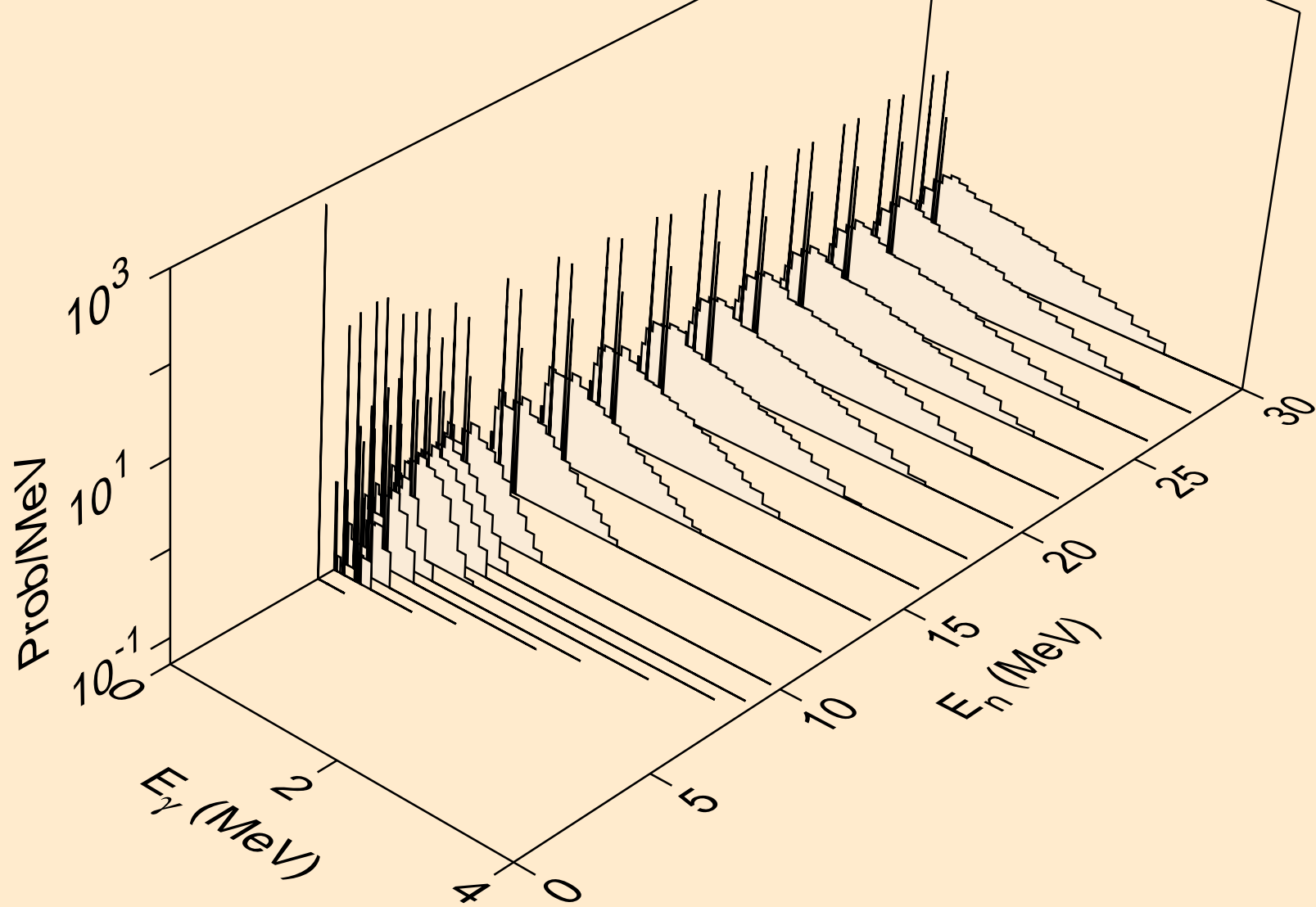
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Photon emission for (n,gma)



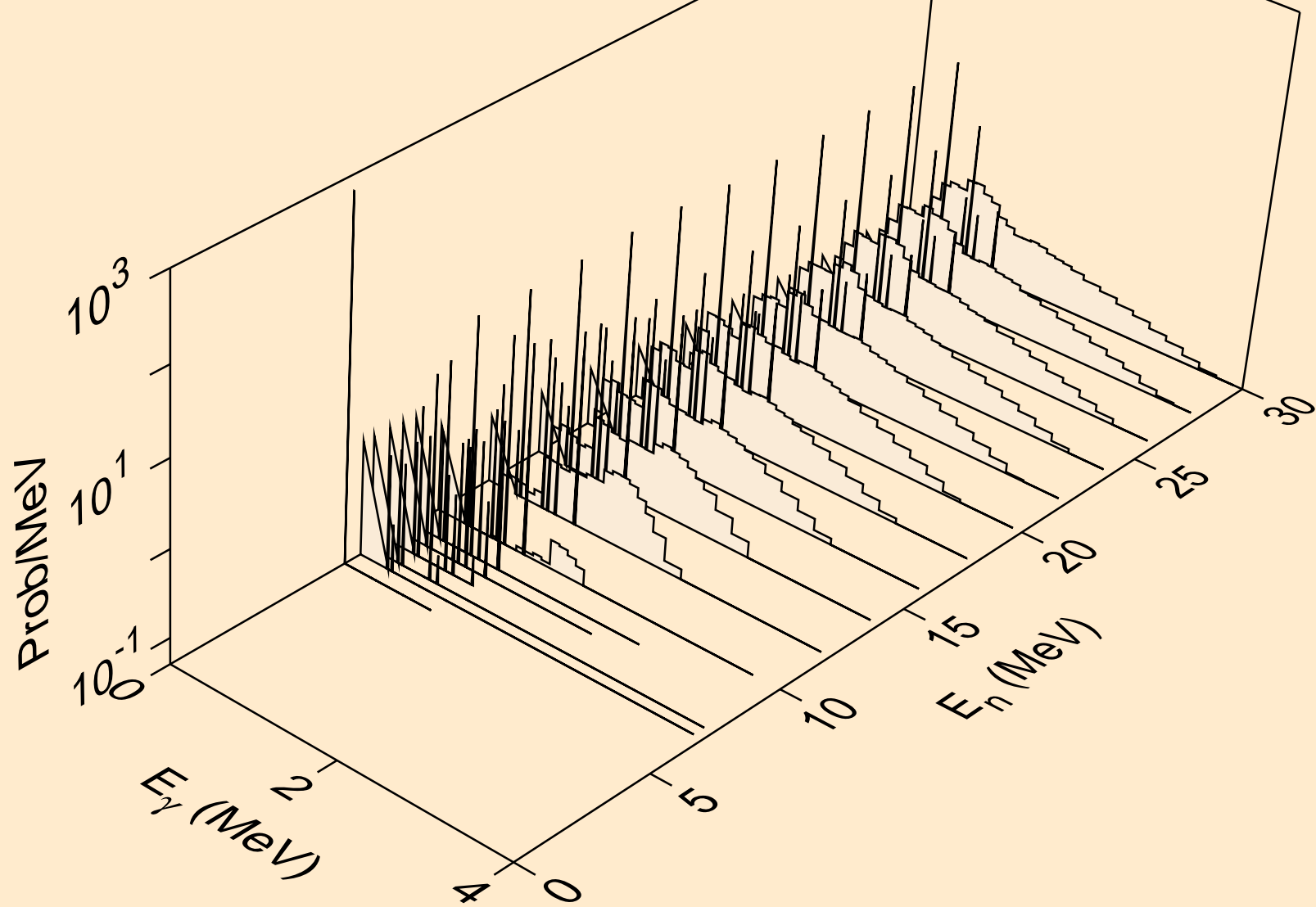
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Photon emission for (n,p)



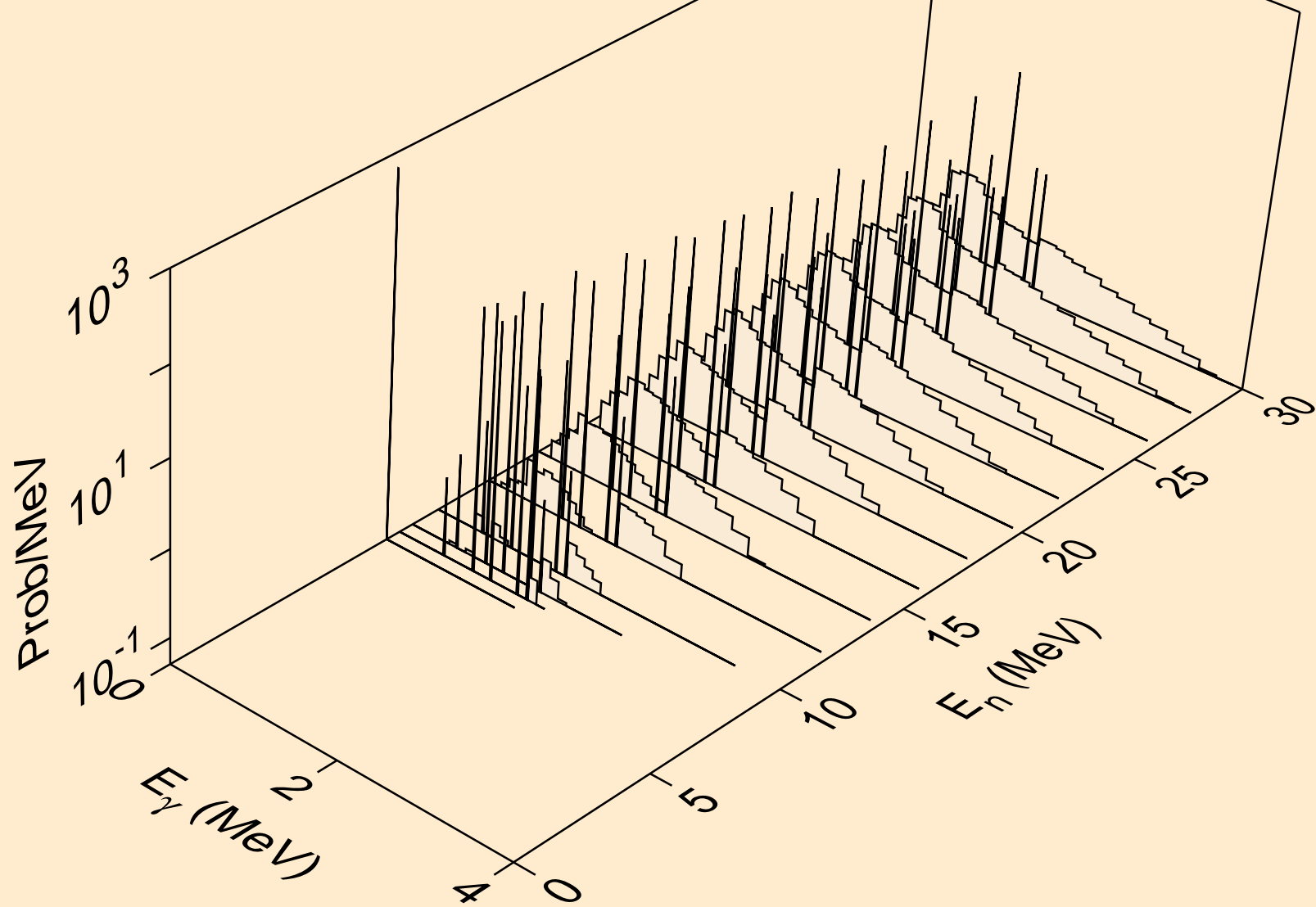
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Photon emission for (n,d)



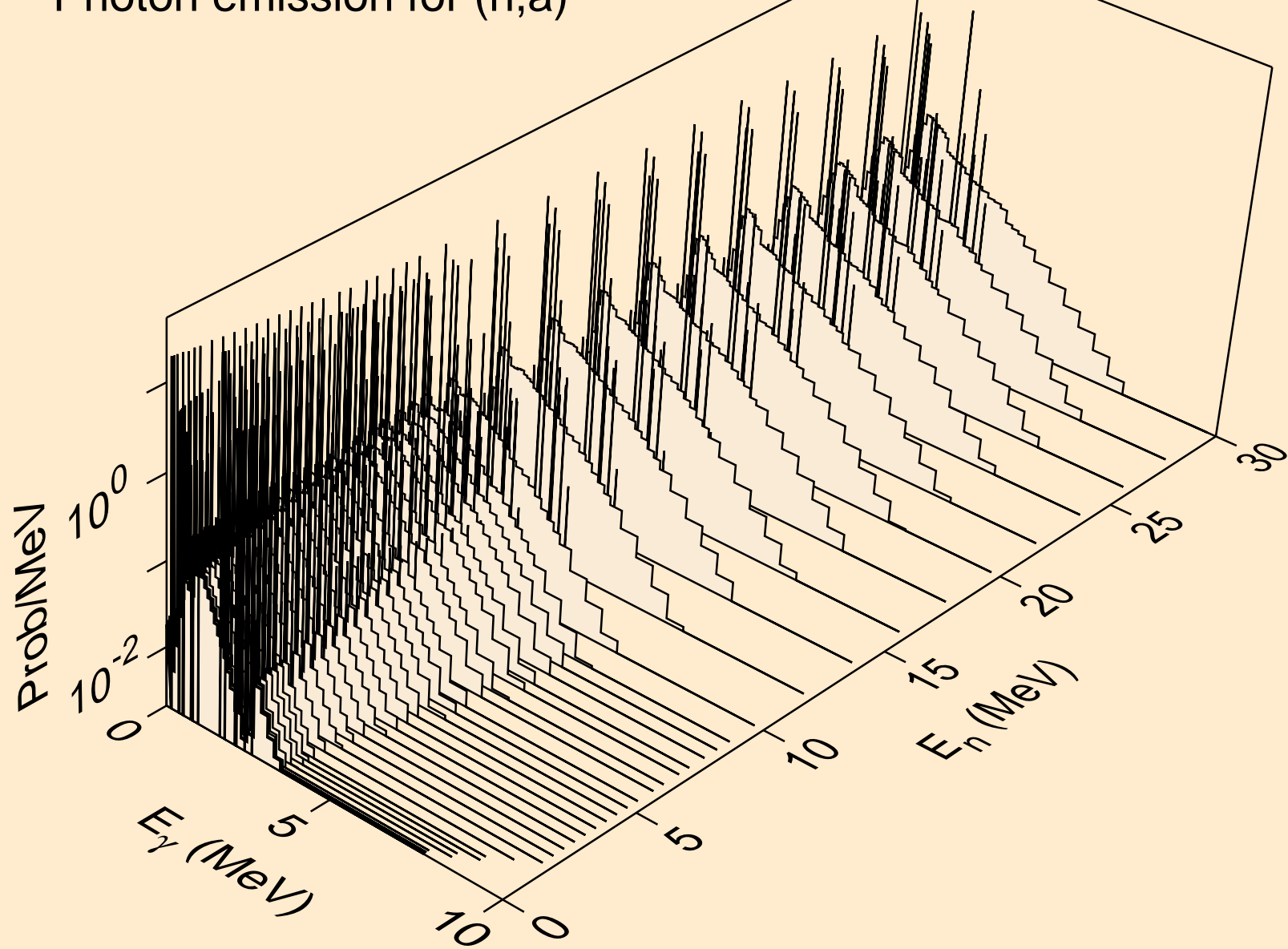
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Photon emission for (n,t)



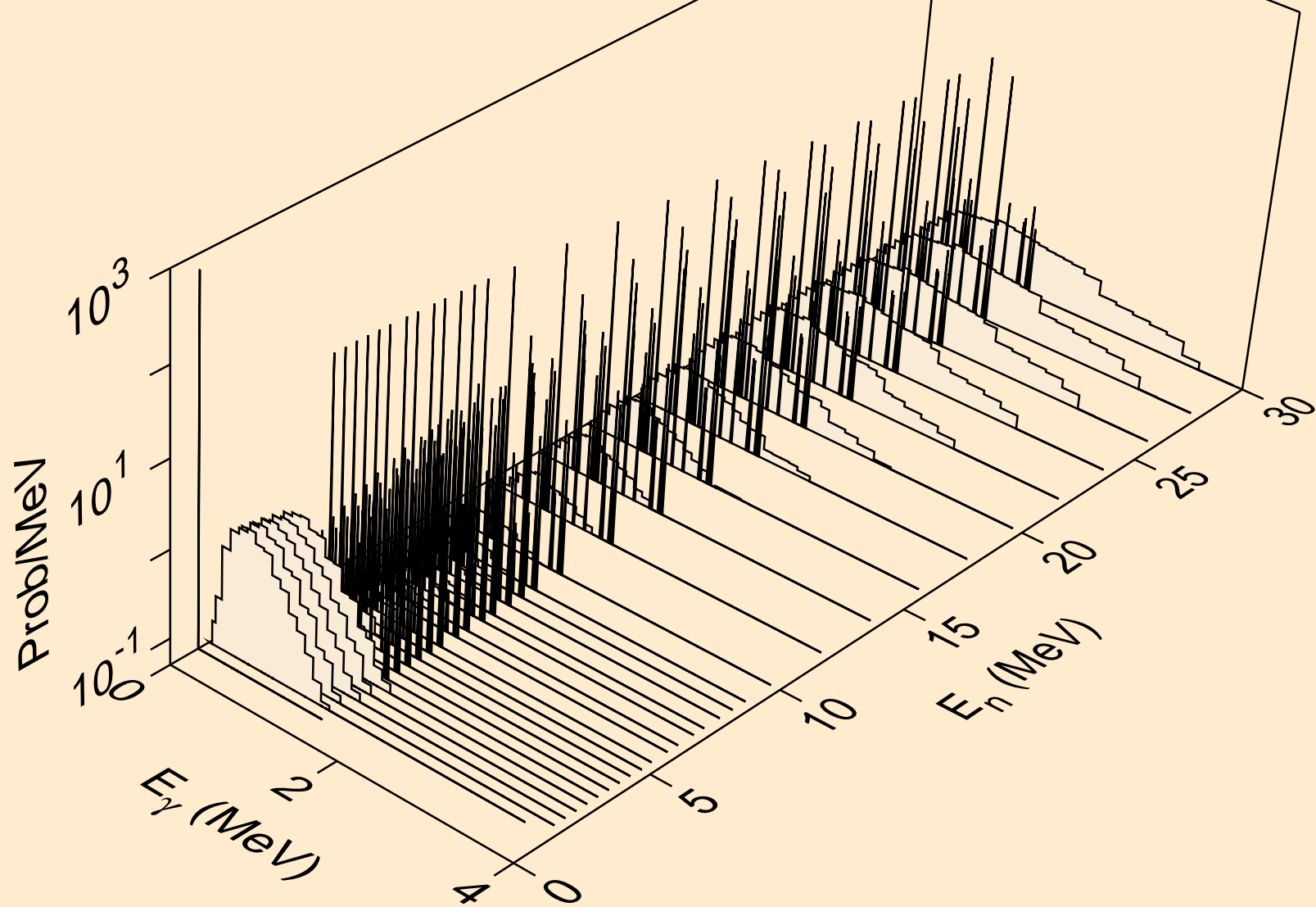
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Photon emission for (n,he3)



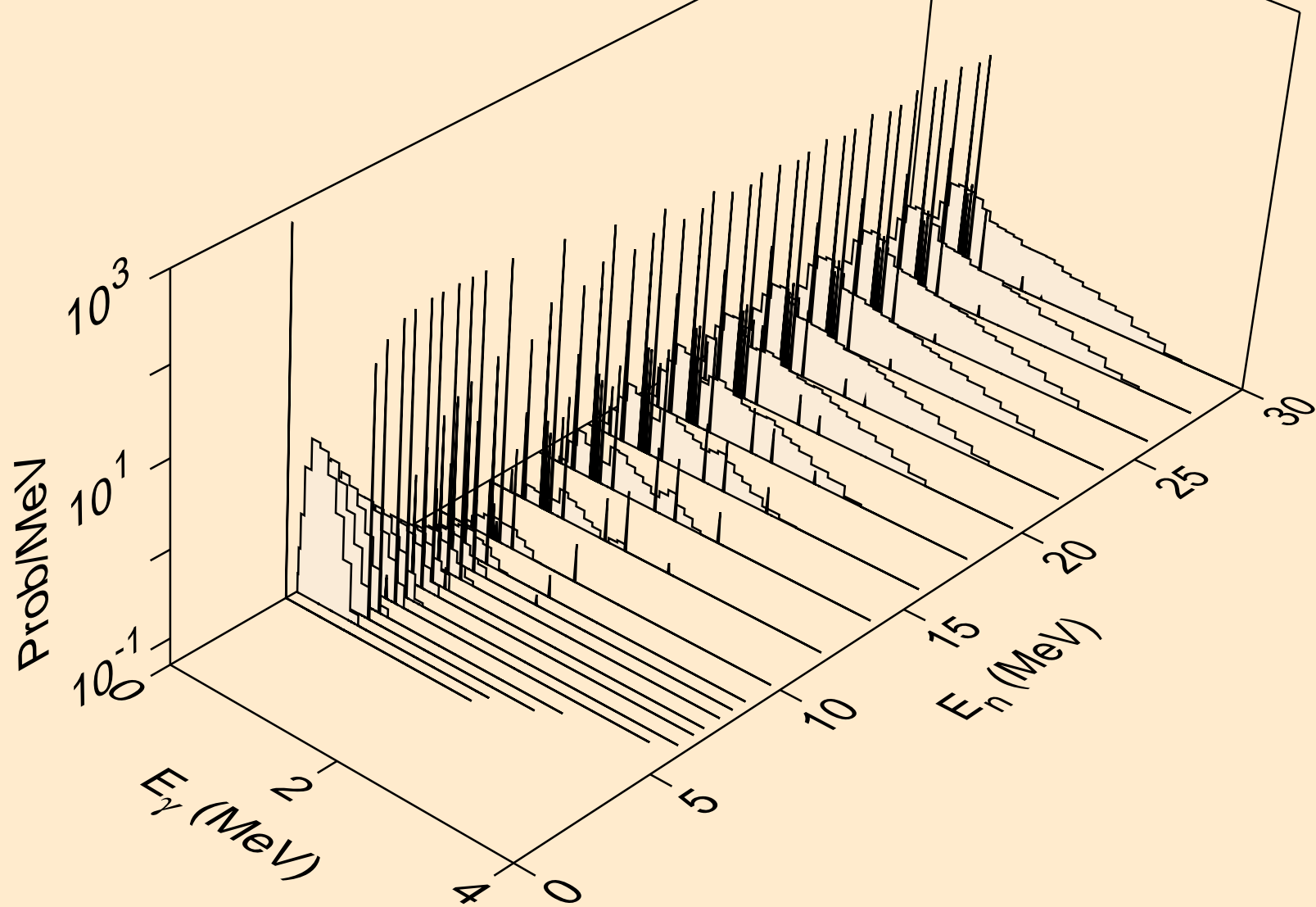
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Photon emission for (n,a)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)

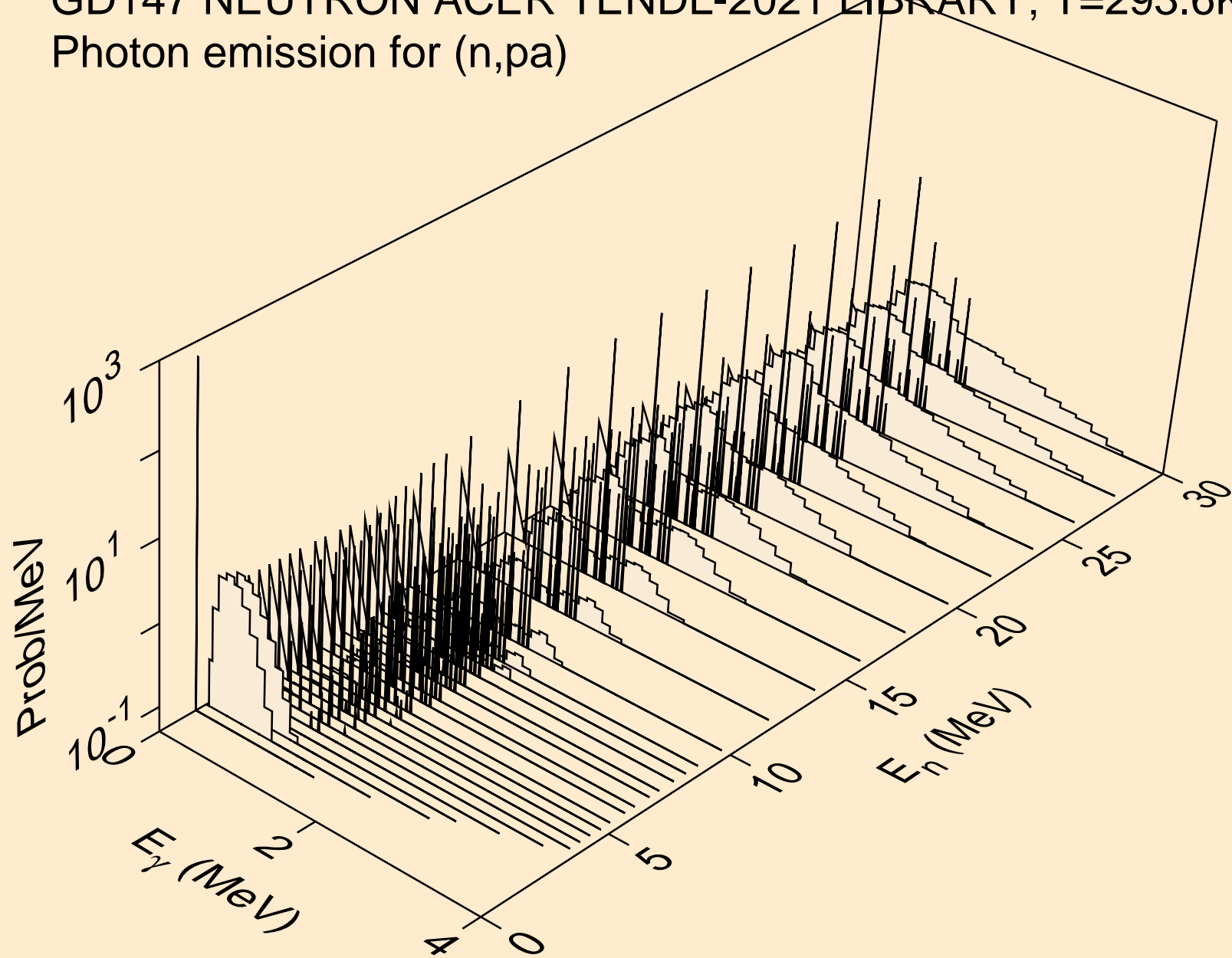


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Photon emission for (n,2p)

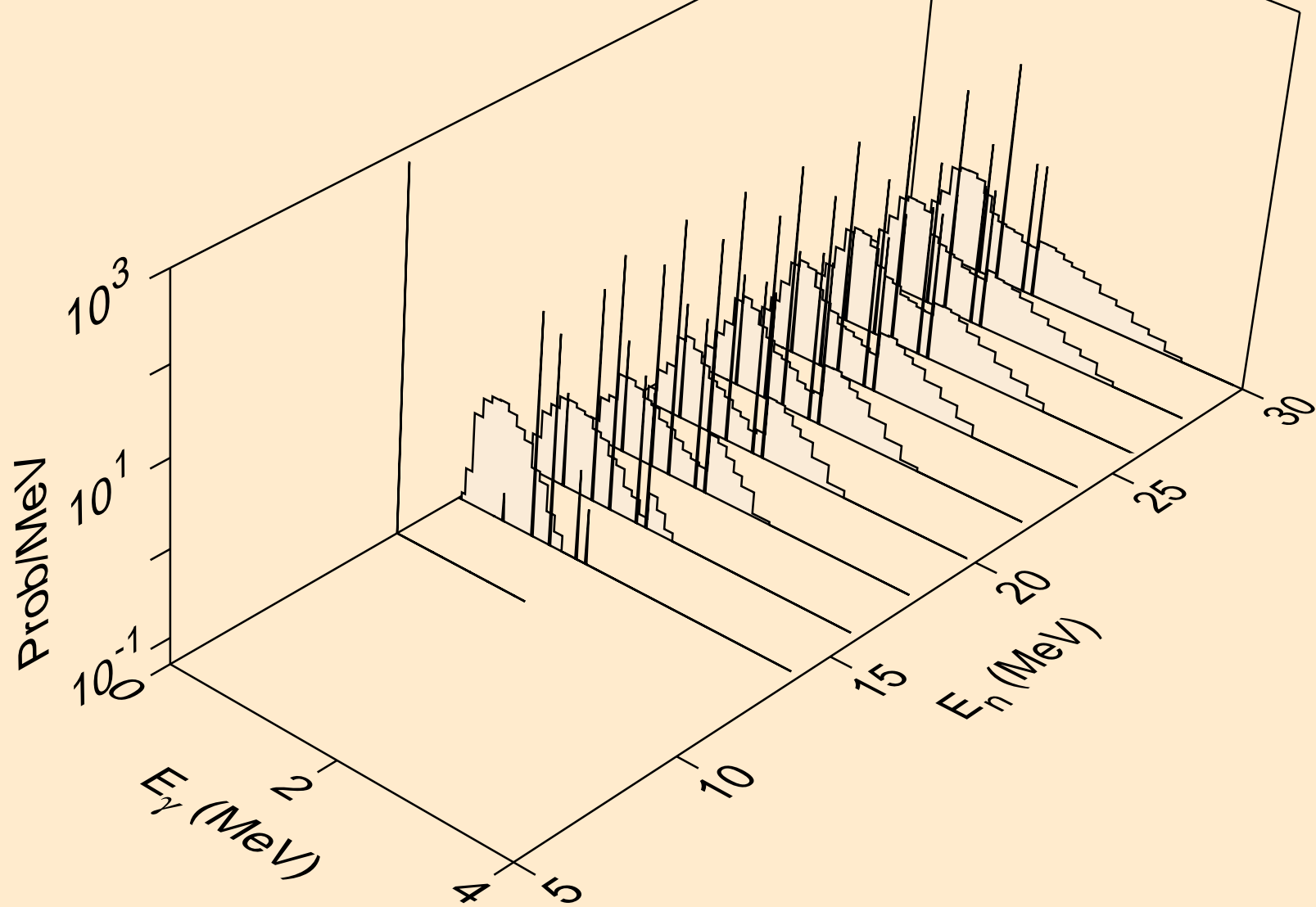




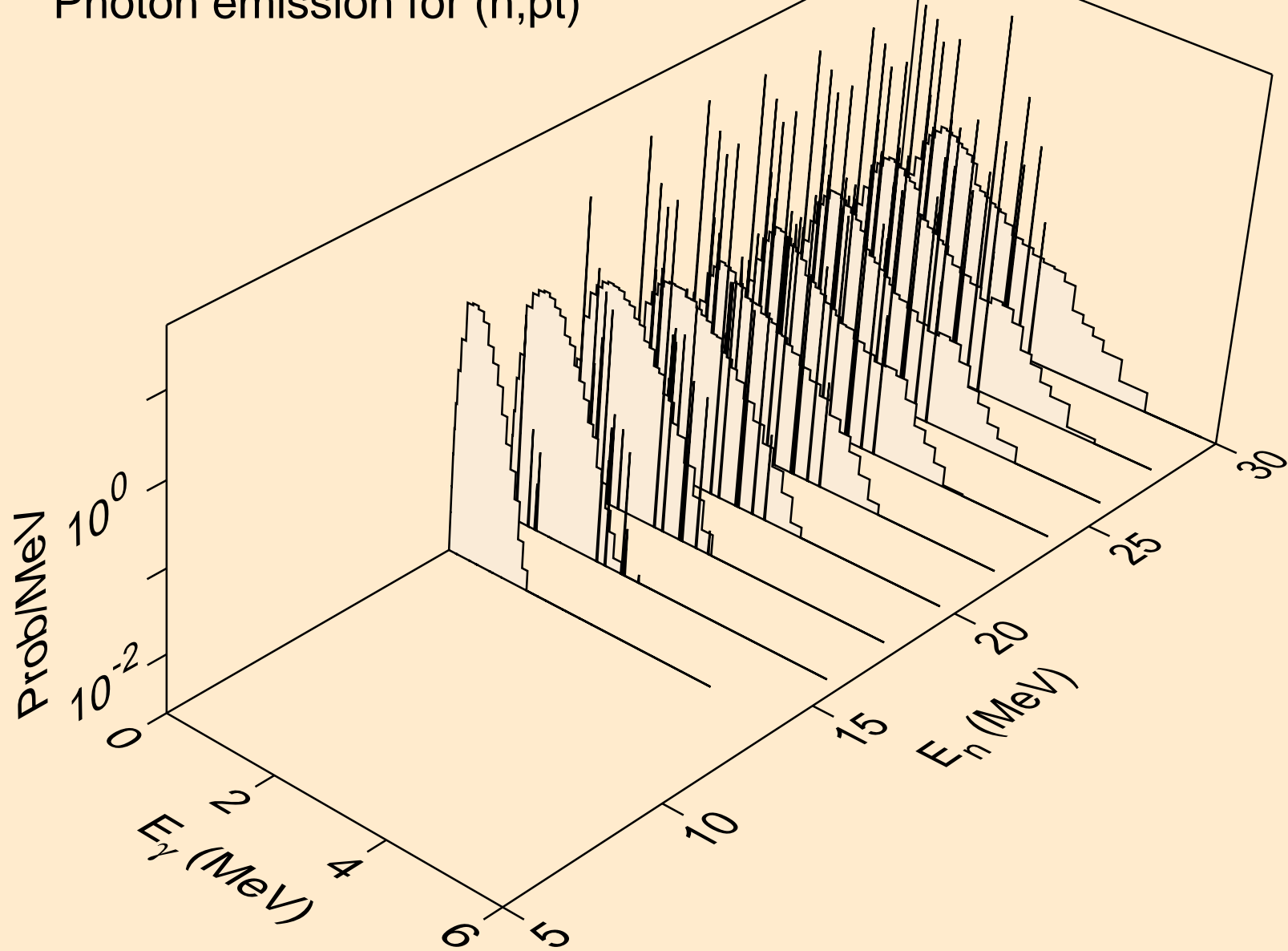
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Photon emission for (n,p)



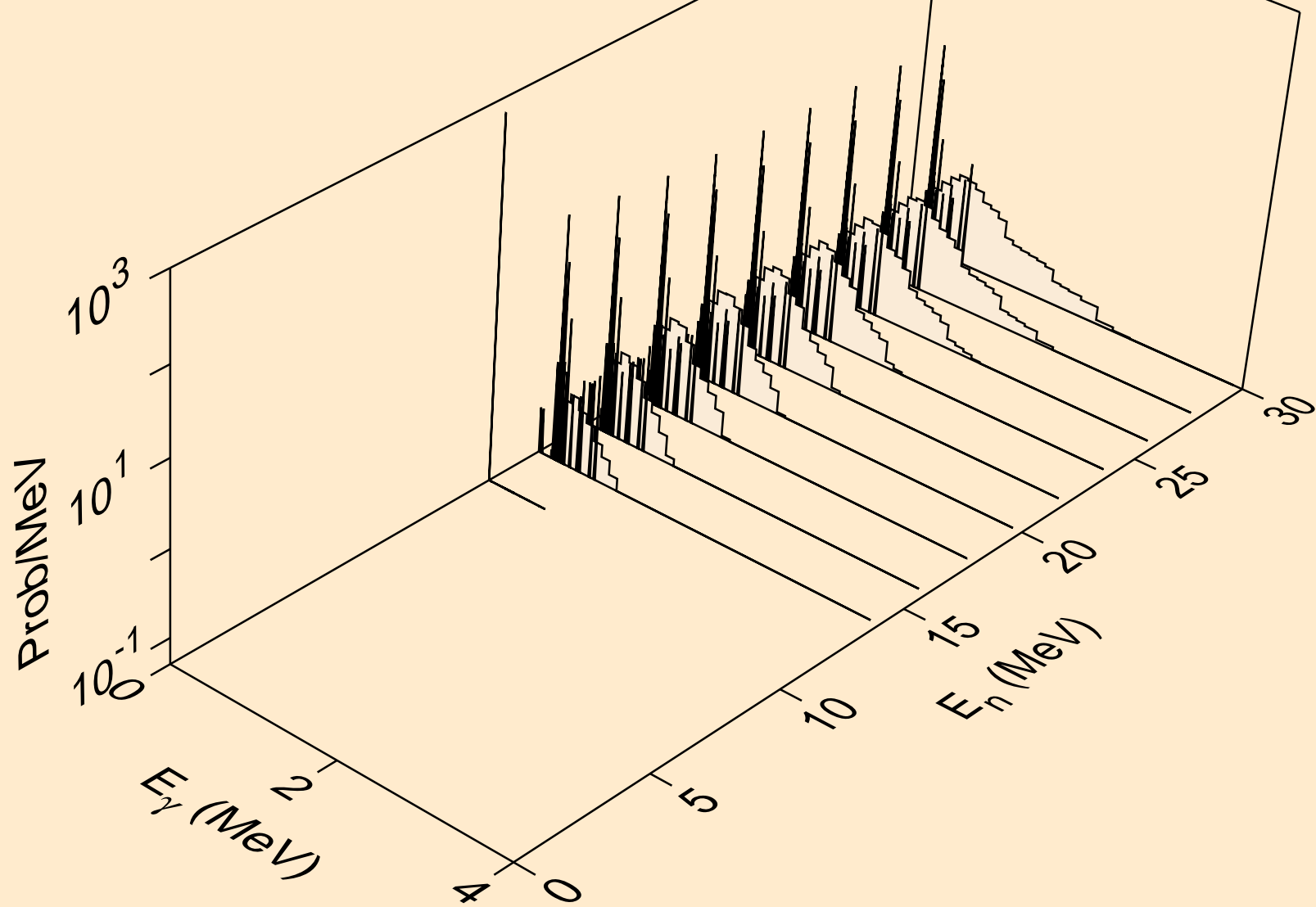
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Photon emission for (n,pd)



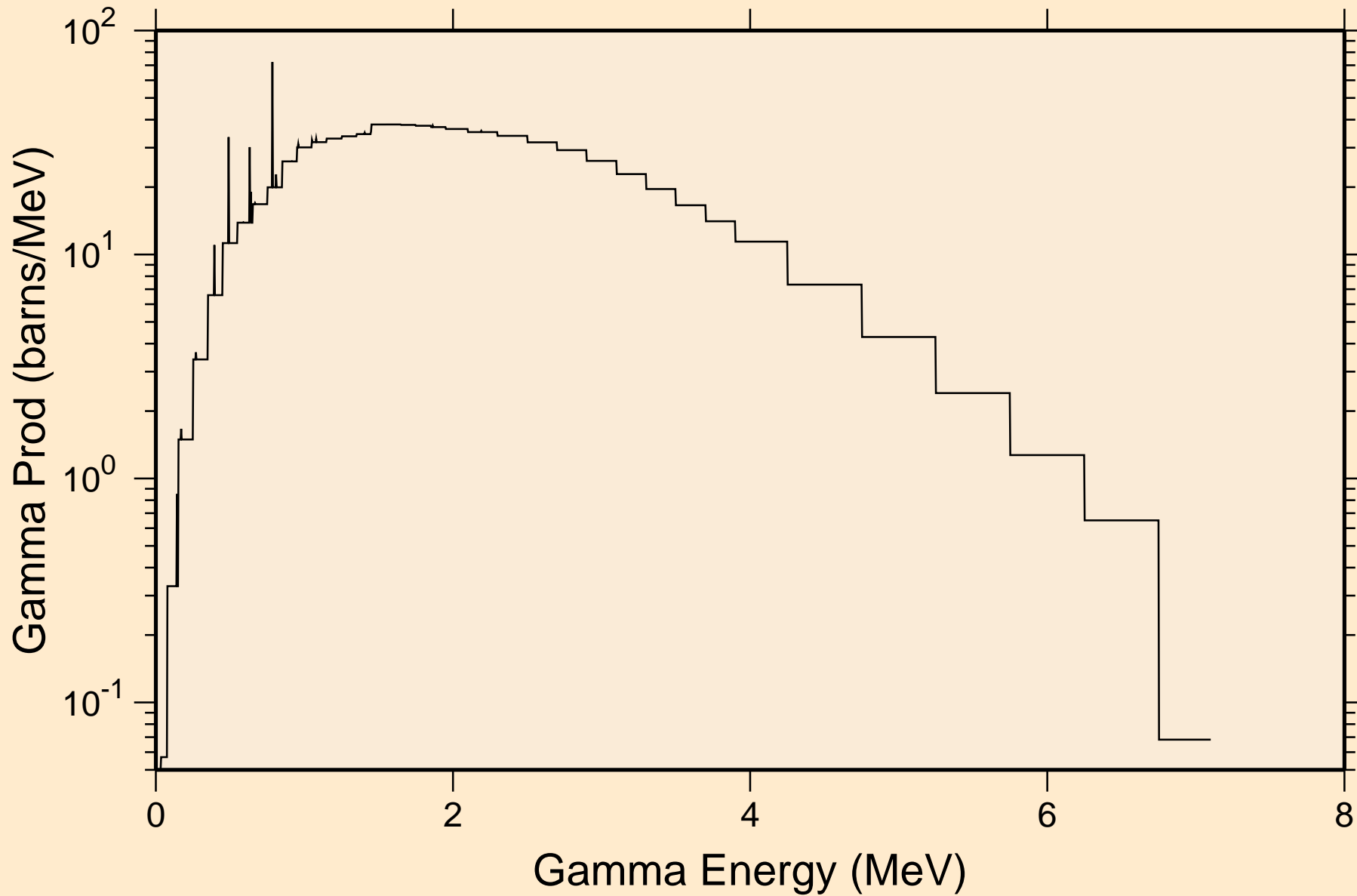
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Photon emission for (n,pt)



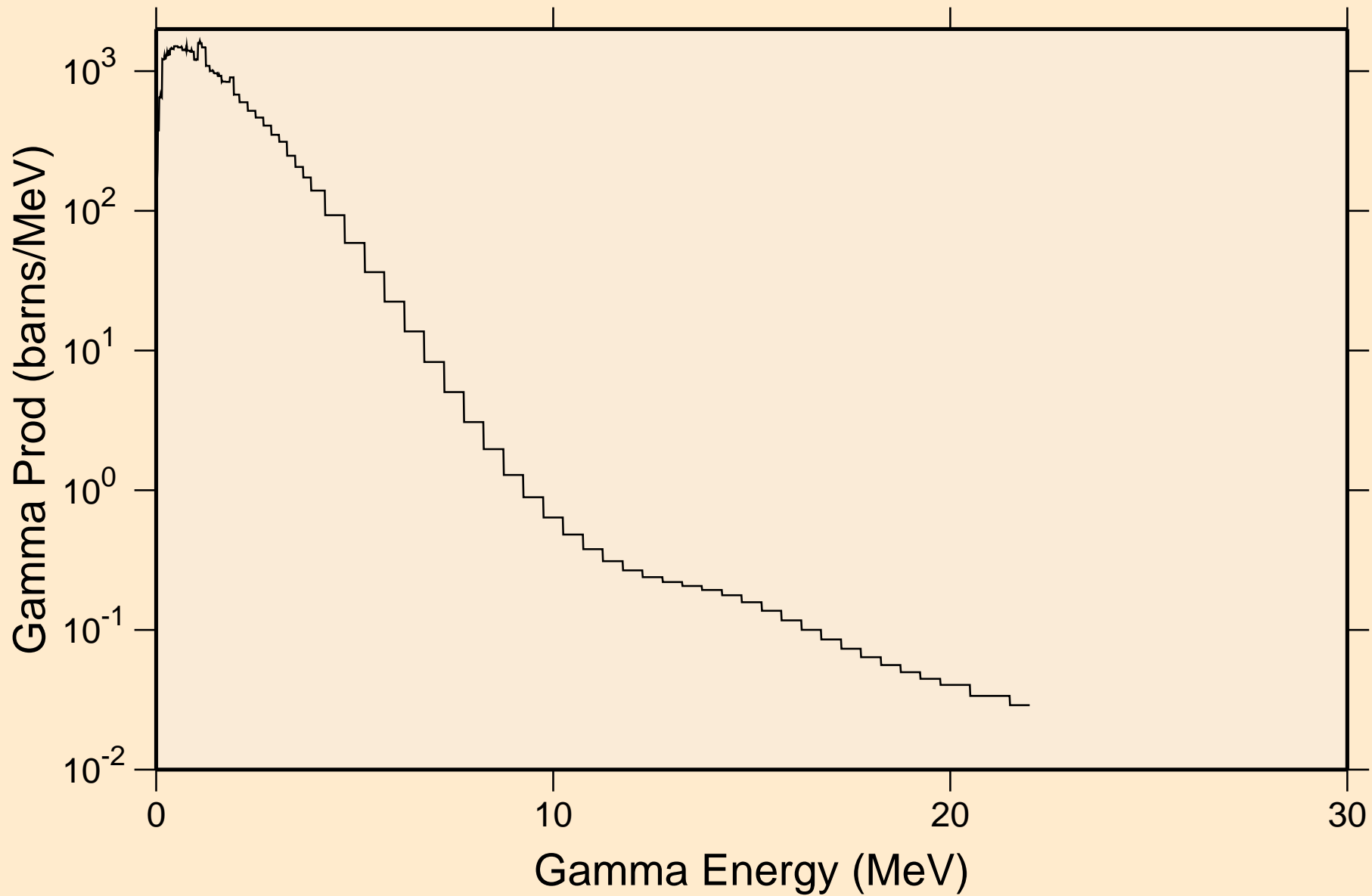
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



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thermal capture photon spectrum

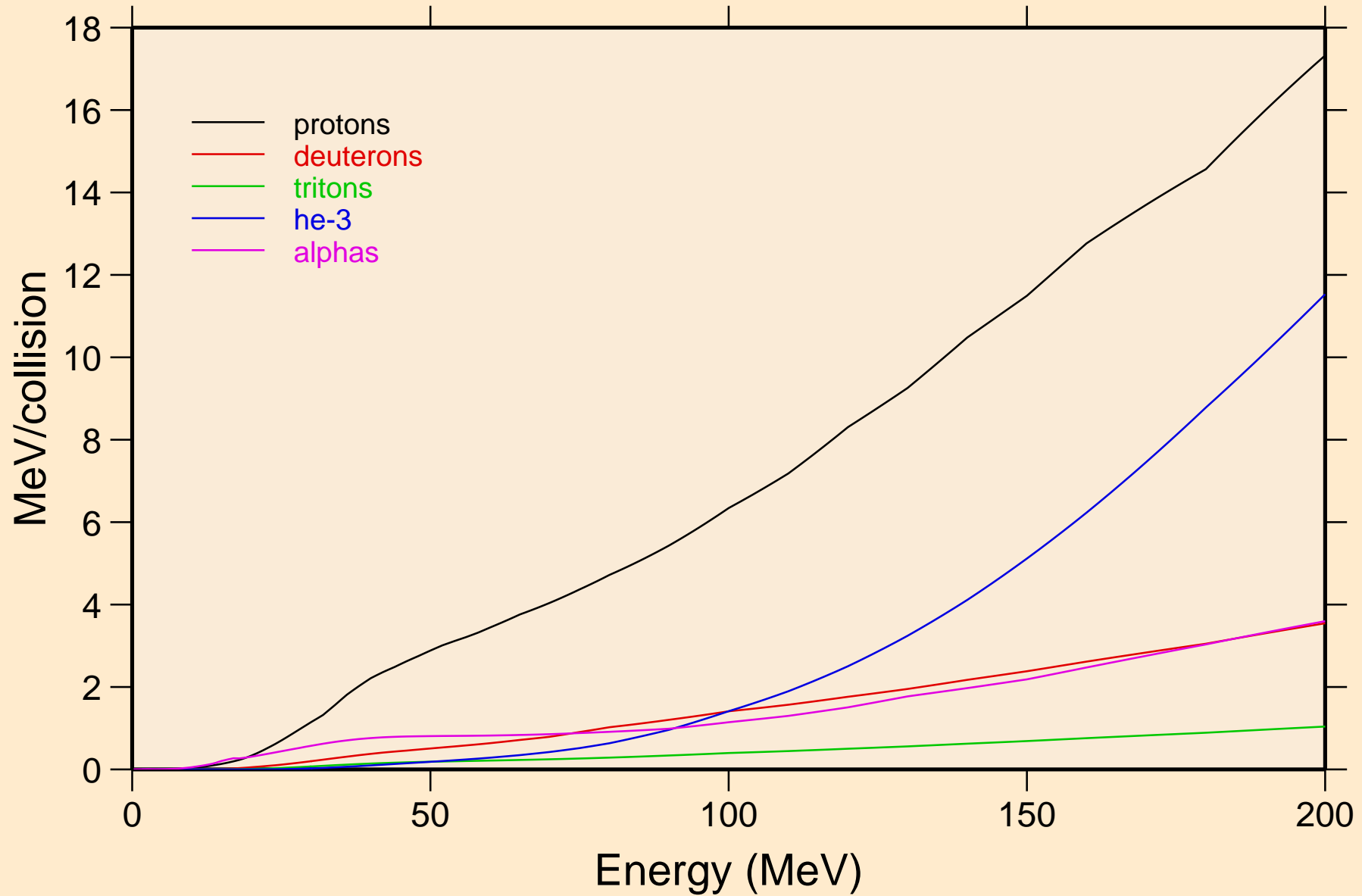


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14 MeV photon spectrum



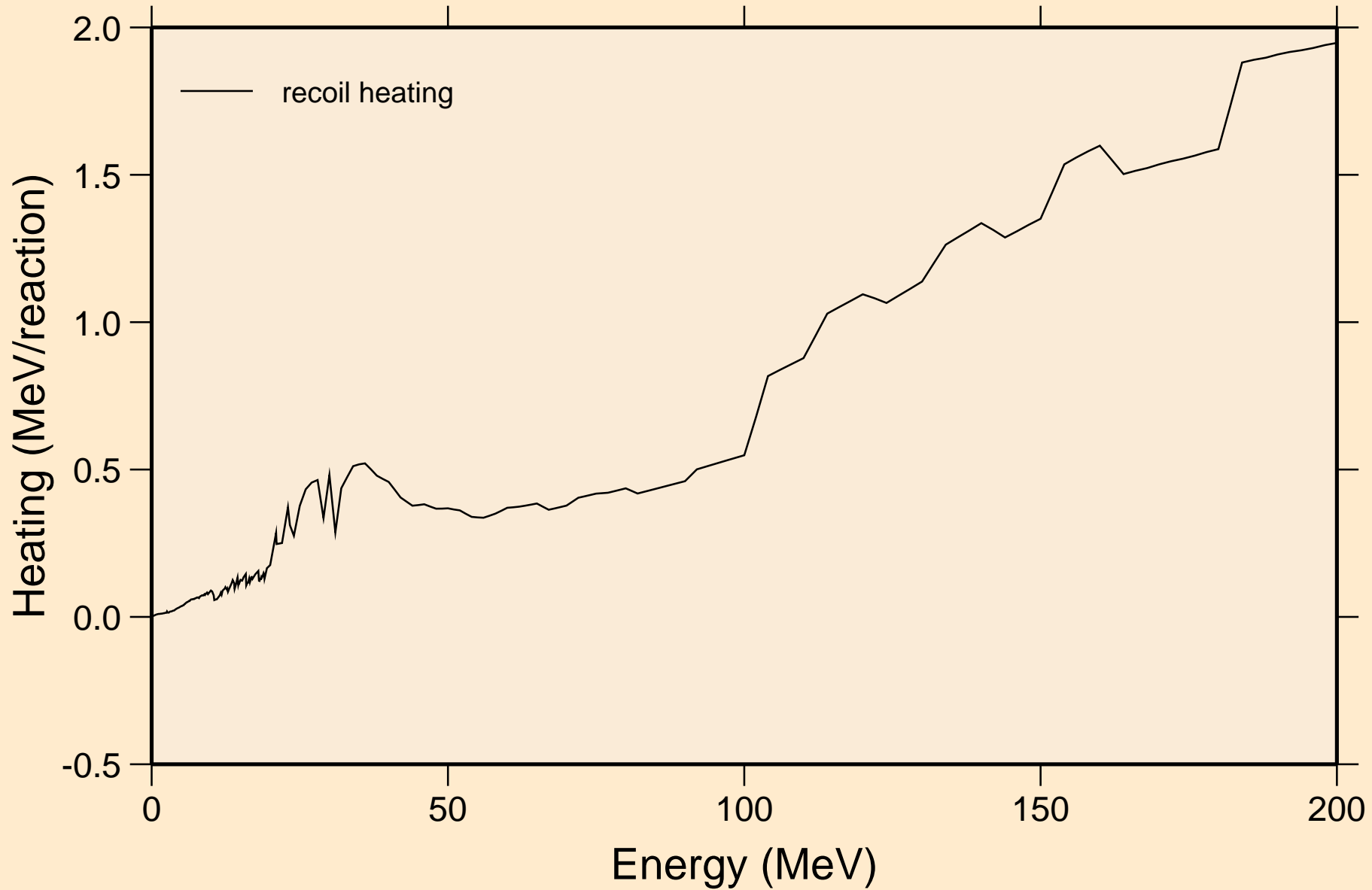
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## Particle heating contributions



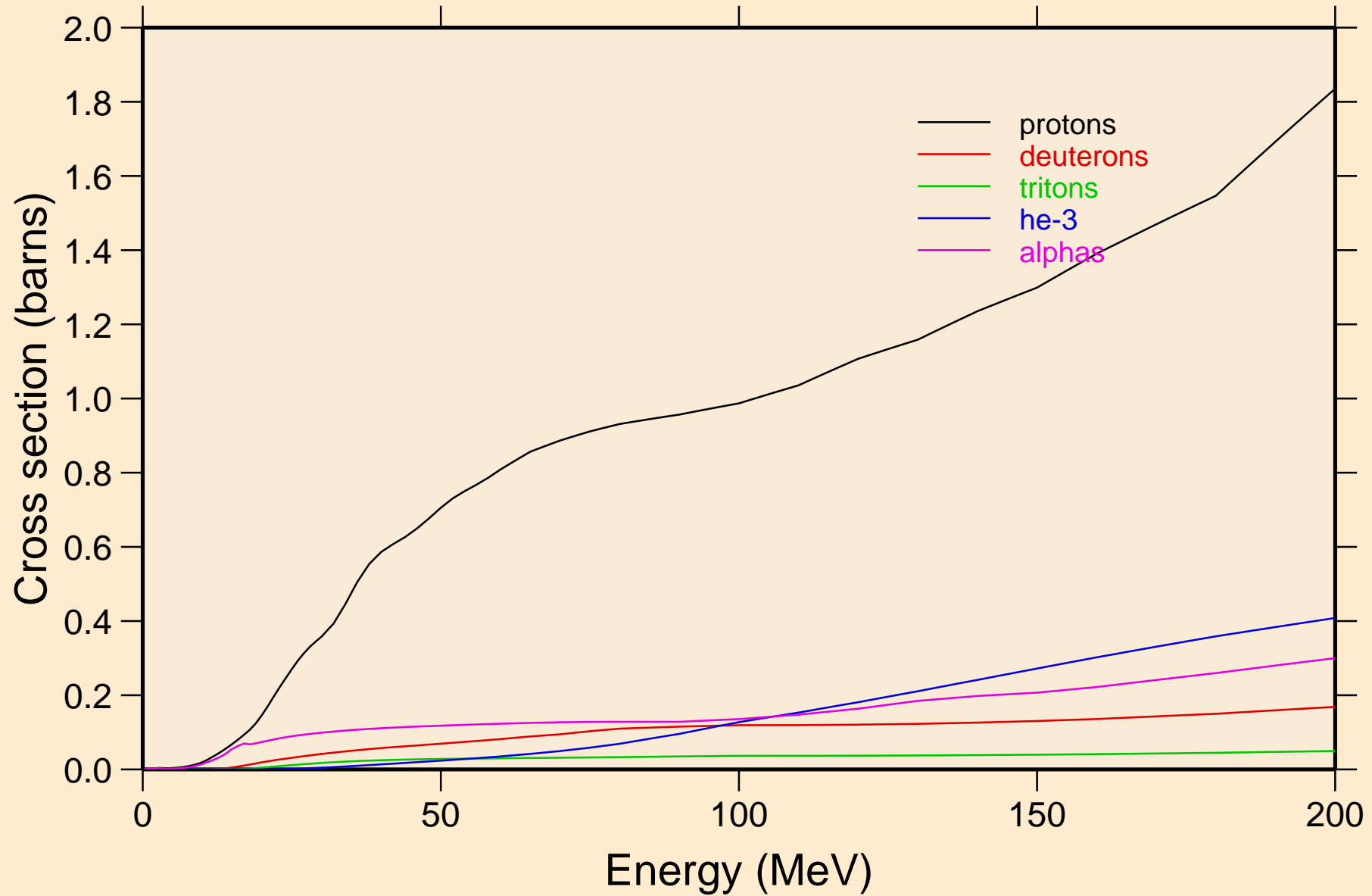
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## Recoil Heating

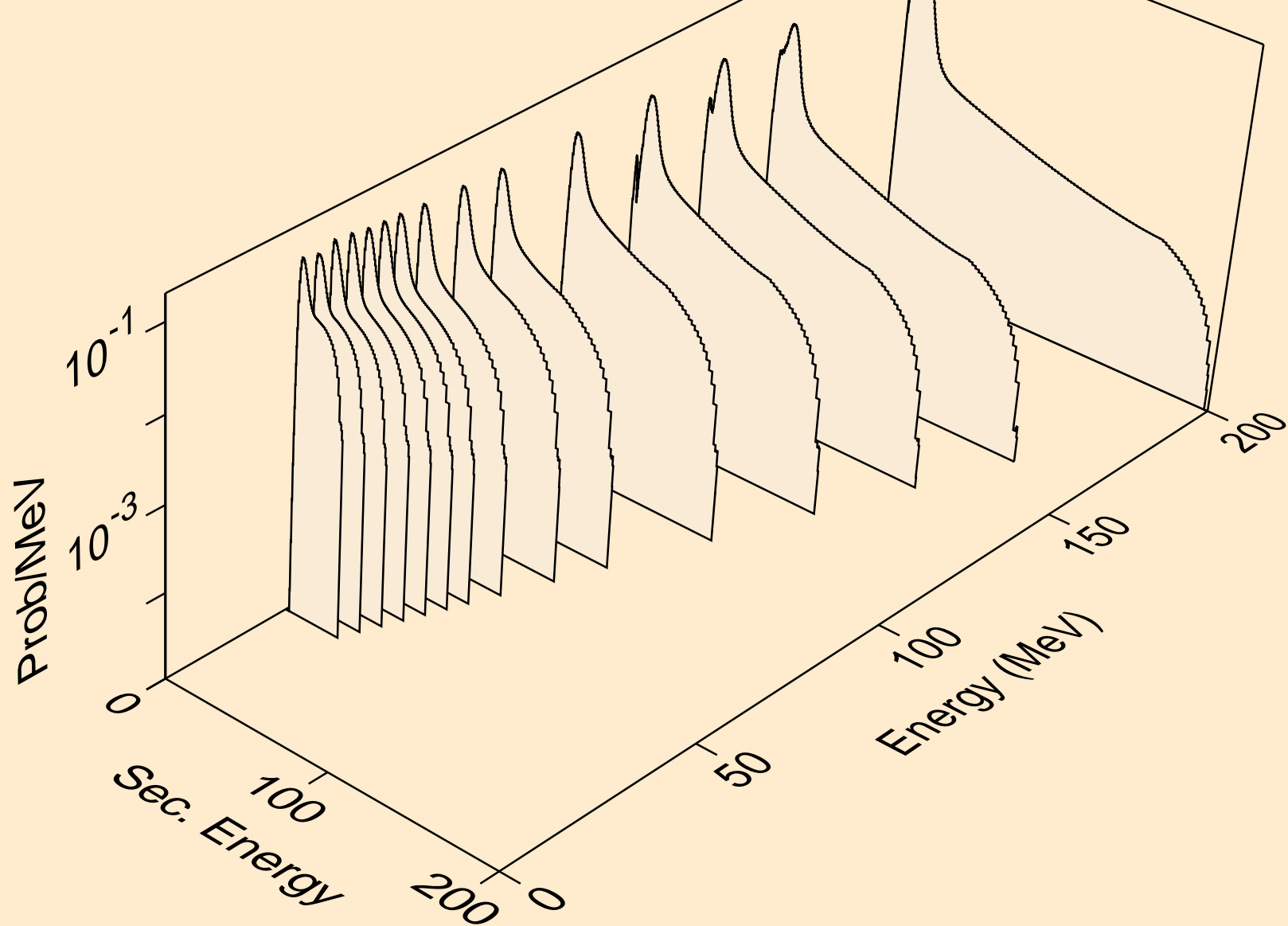




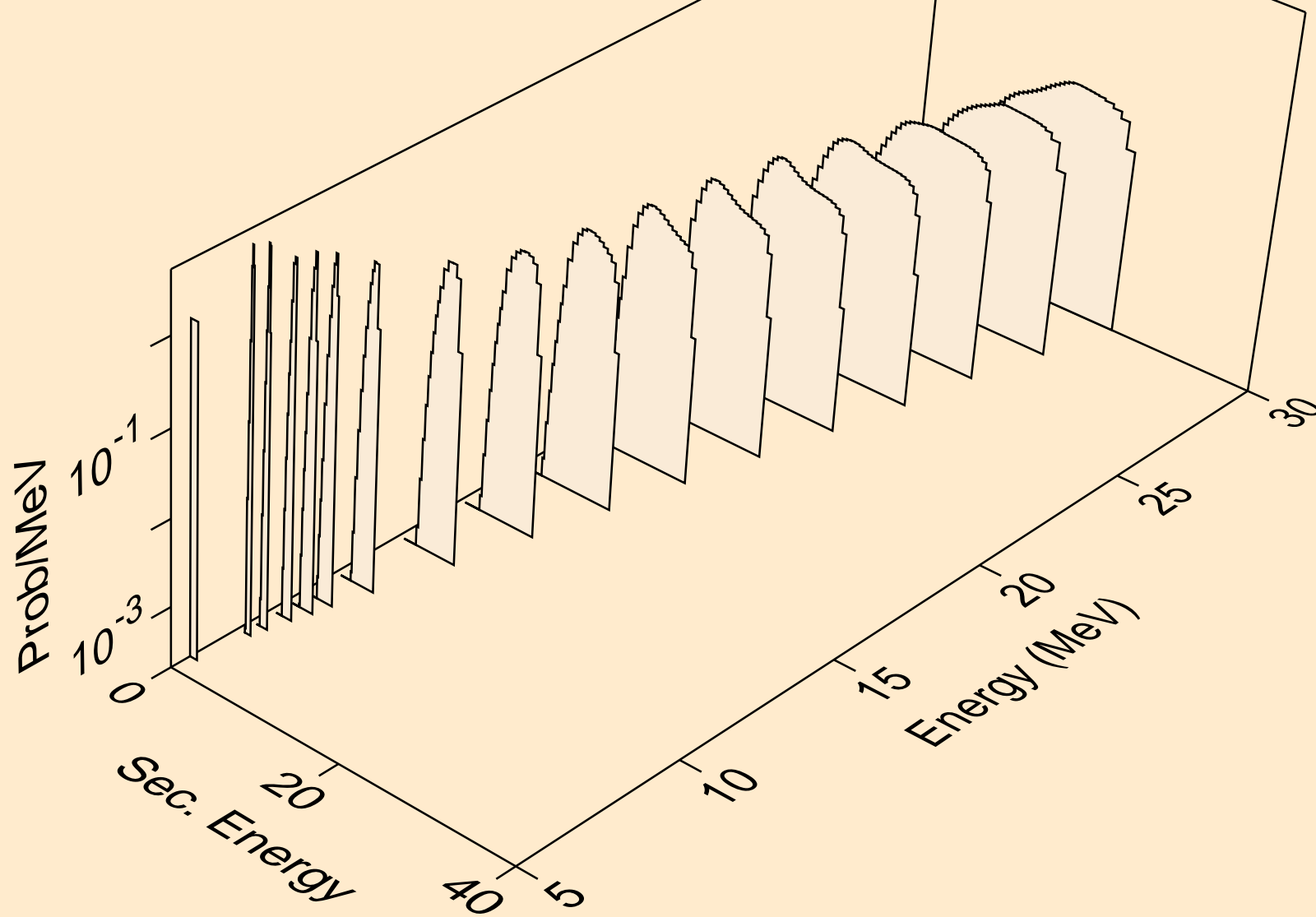
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Particle production cross sections



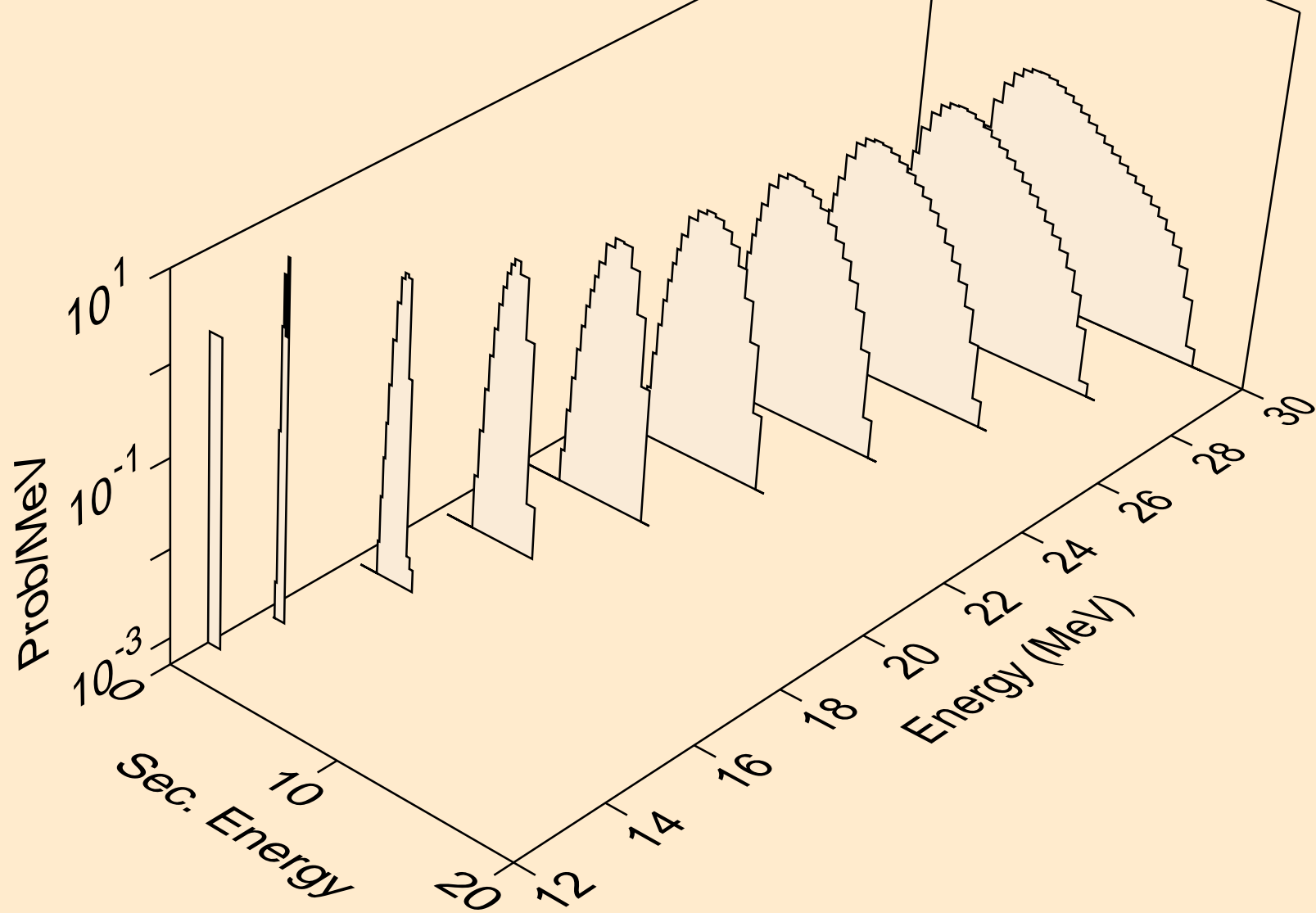
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protons from (n,x)



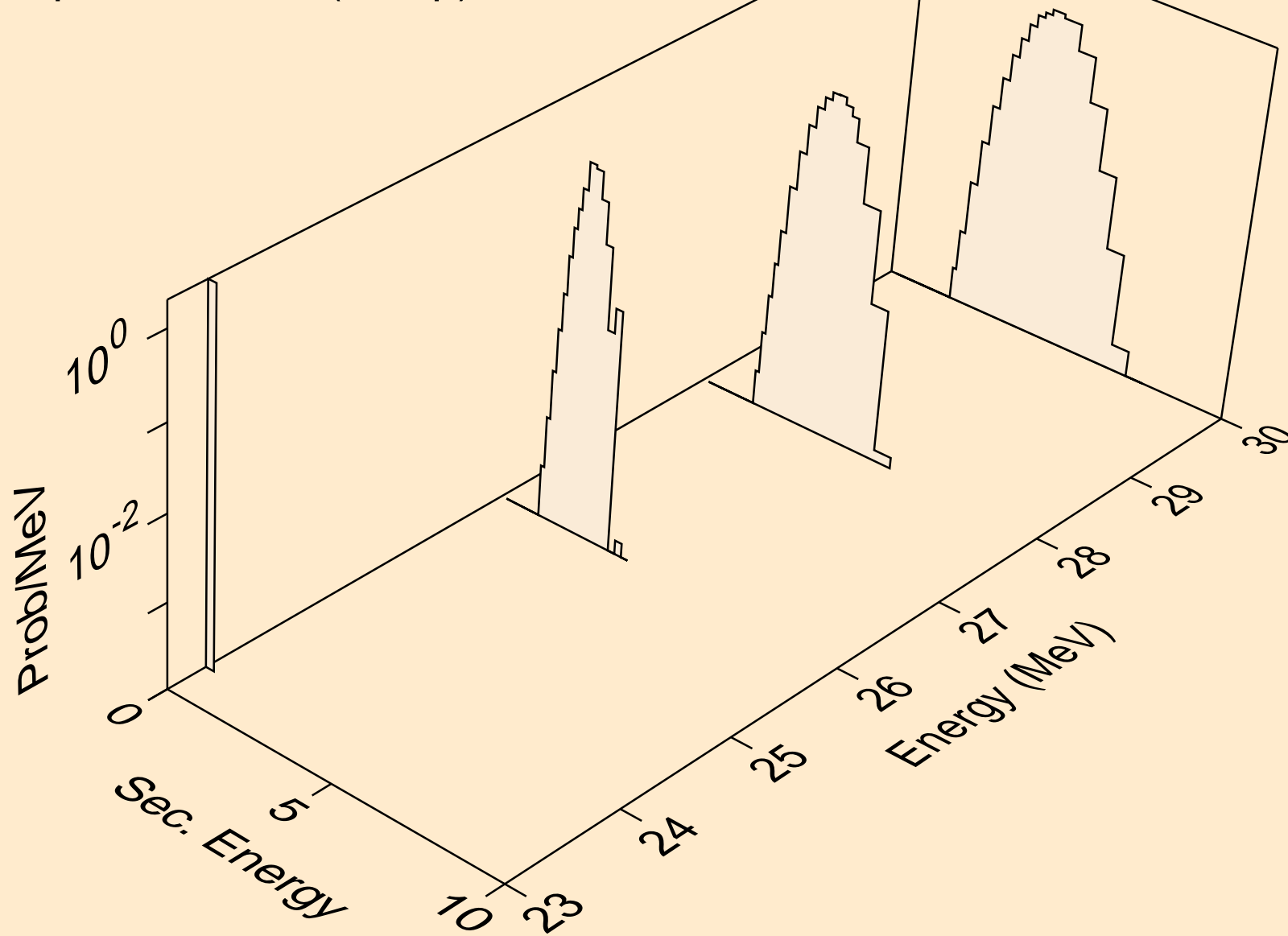
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protons from (n,n\*)p



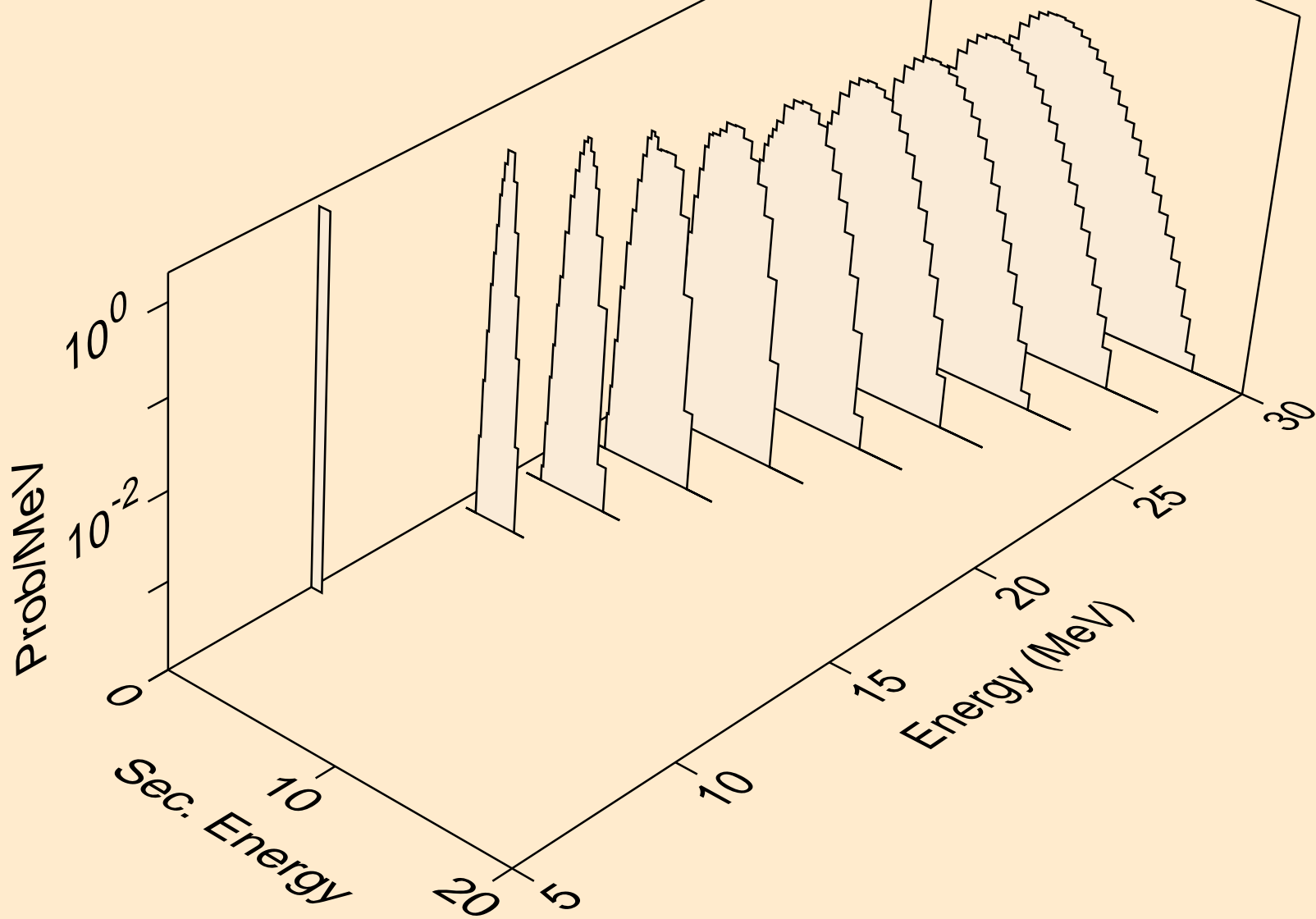
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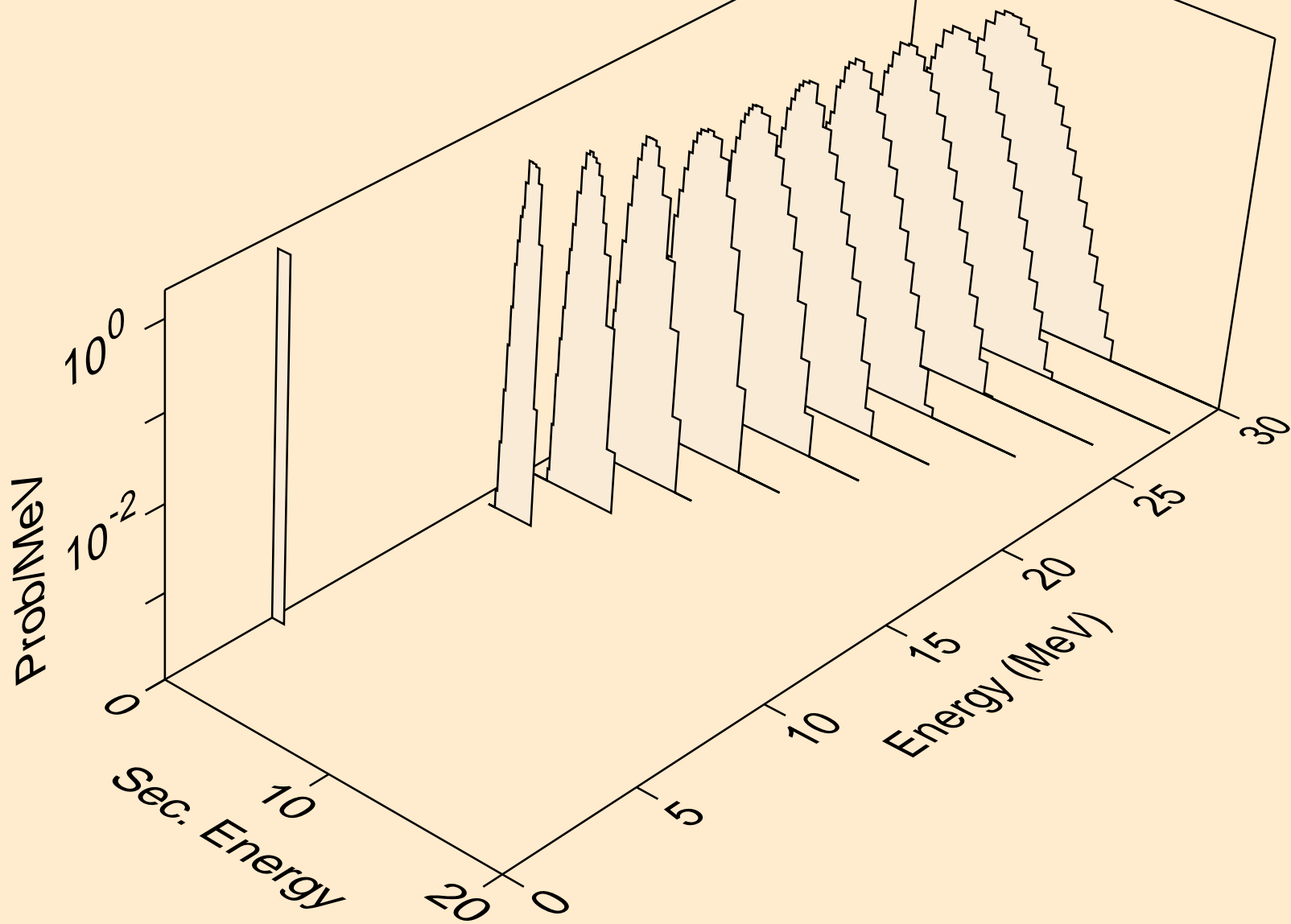
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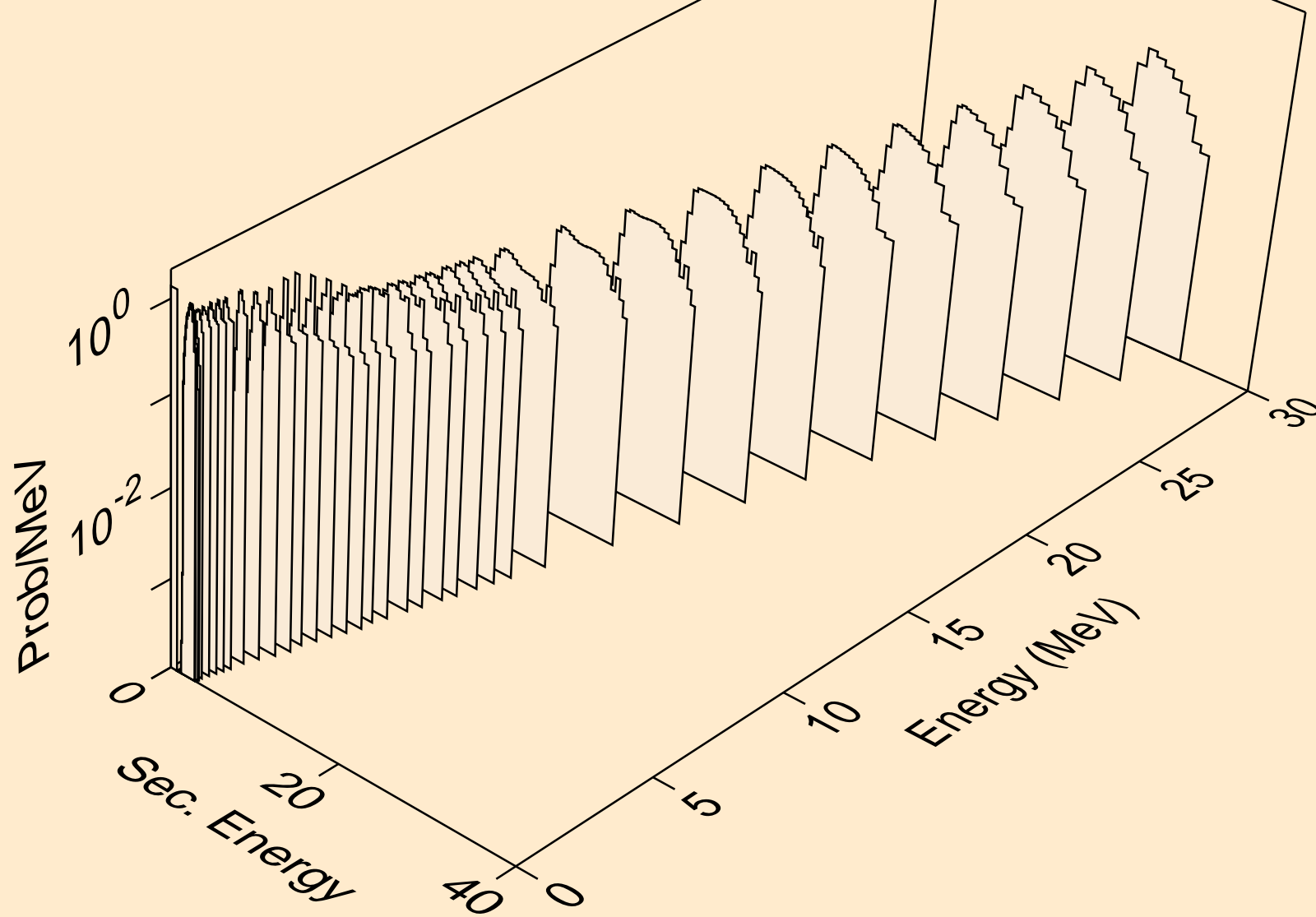
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protons from (n,npa)

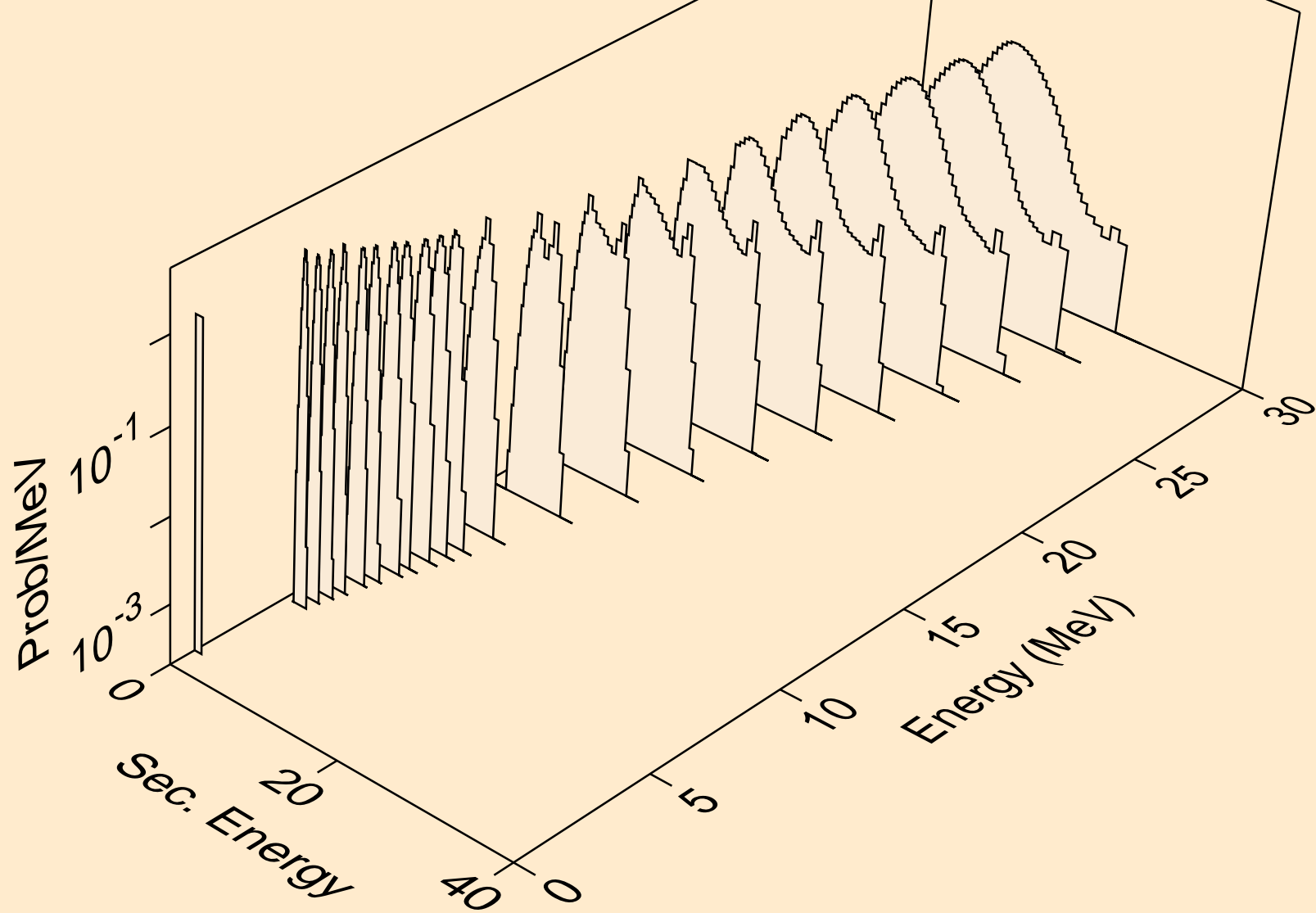


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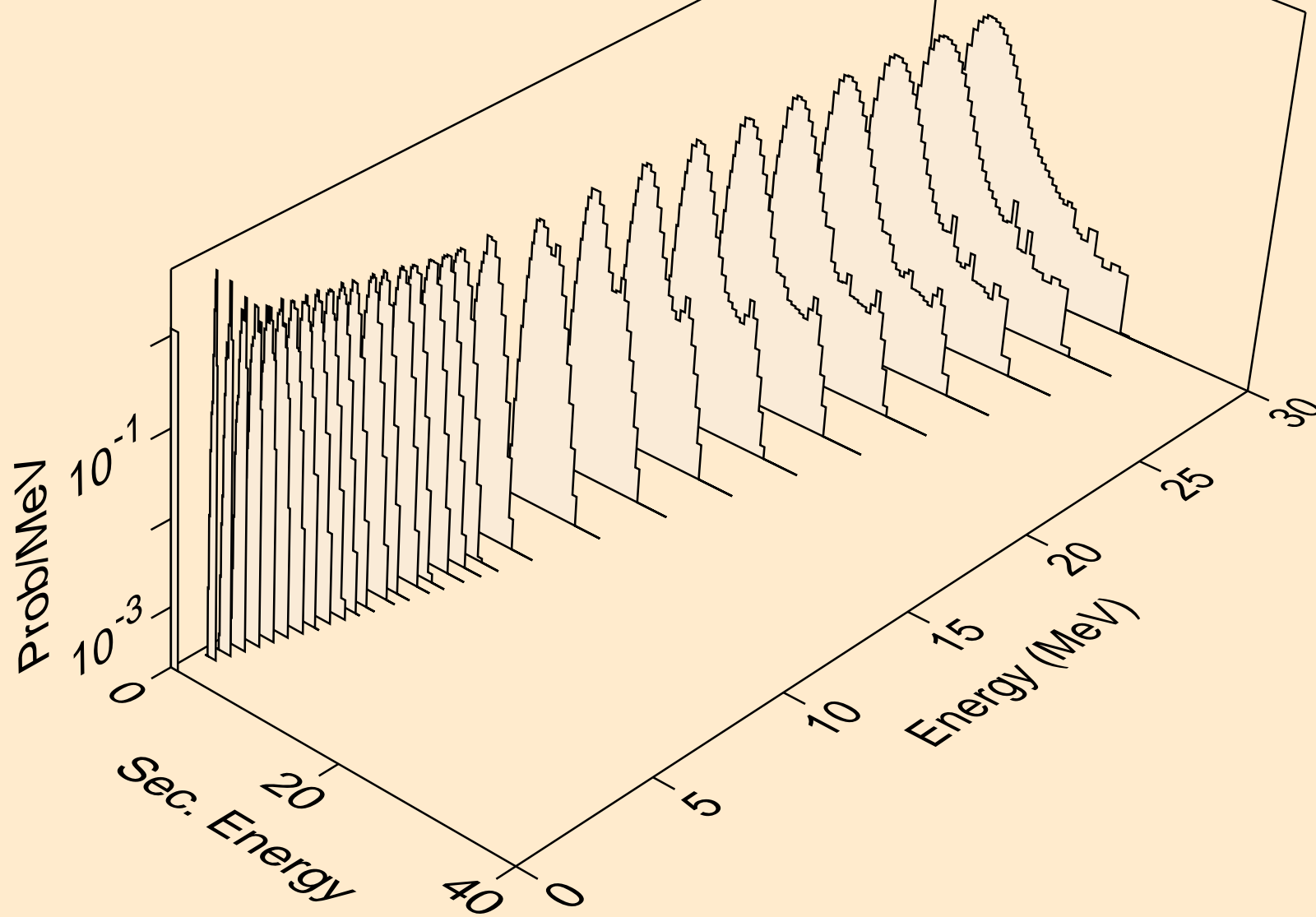




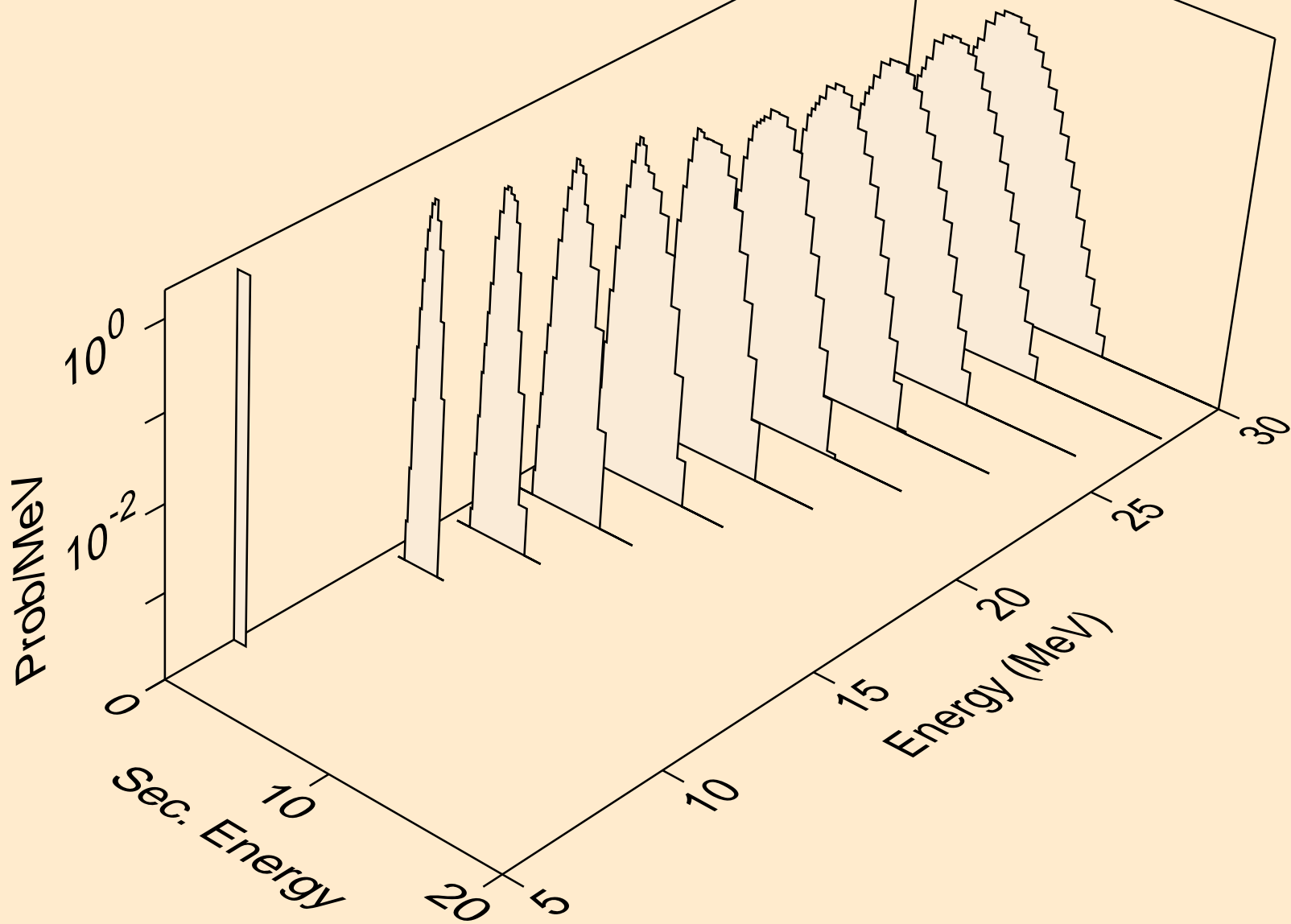
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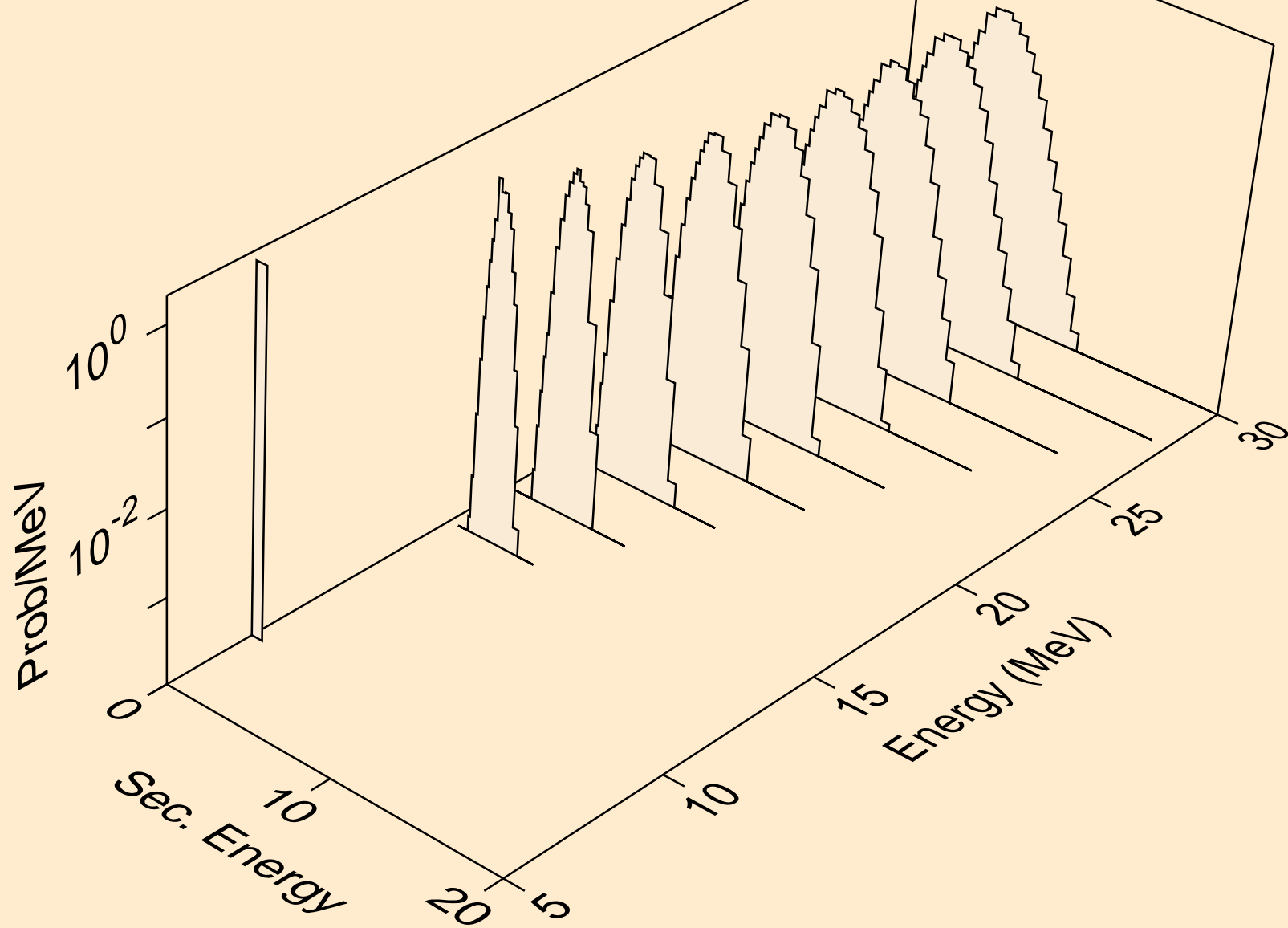
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protons from (n,p)



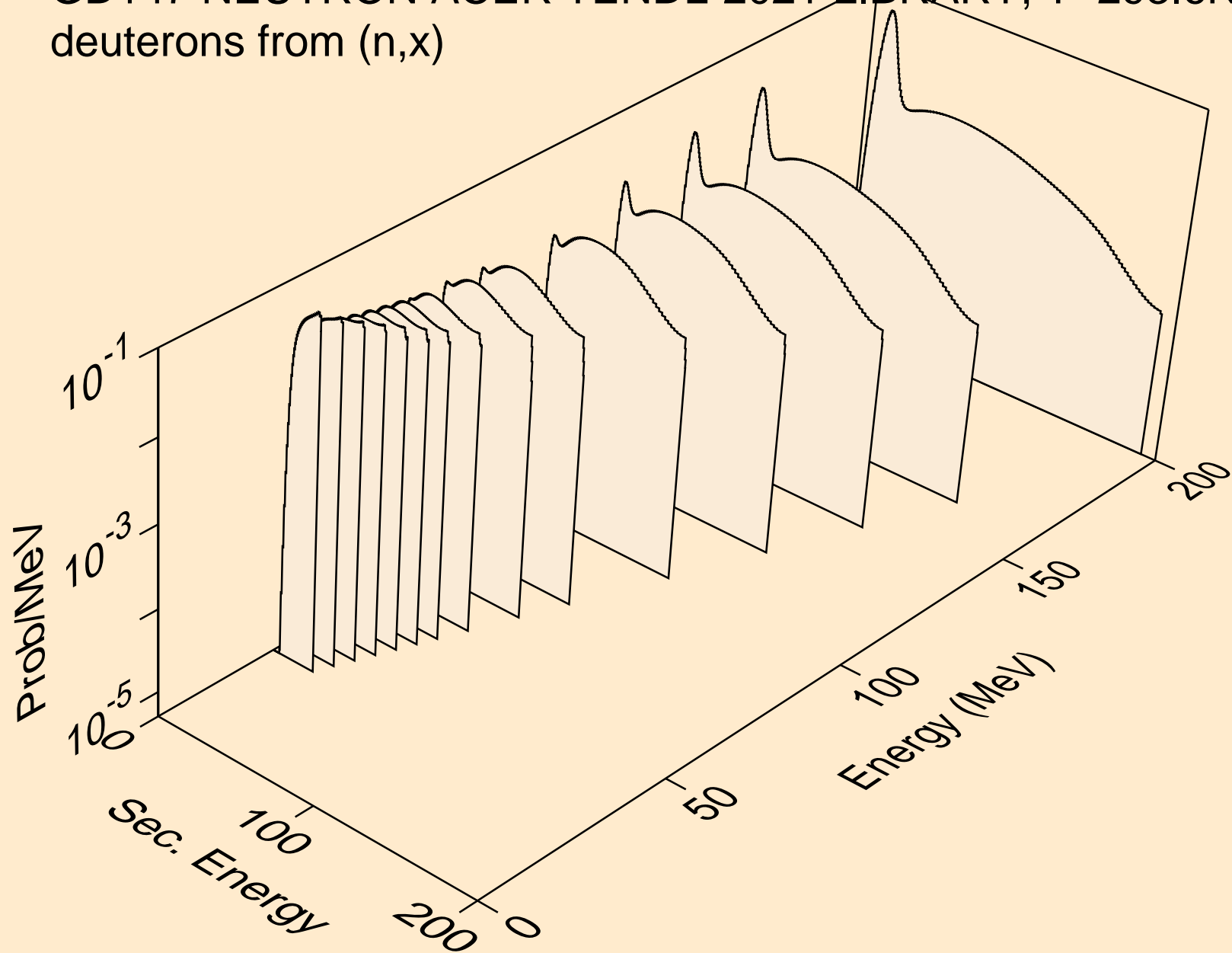
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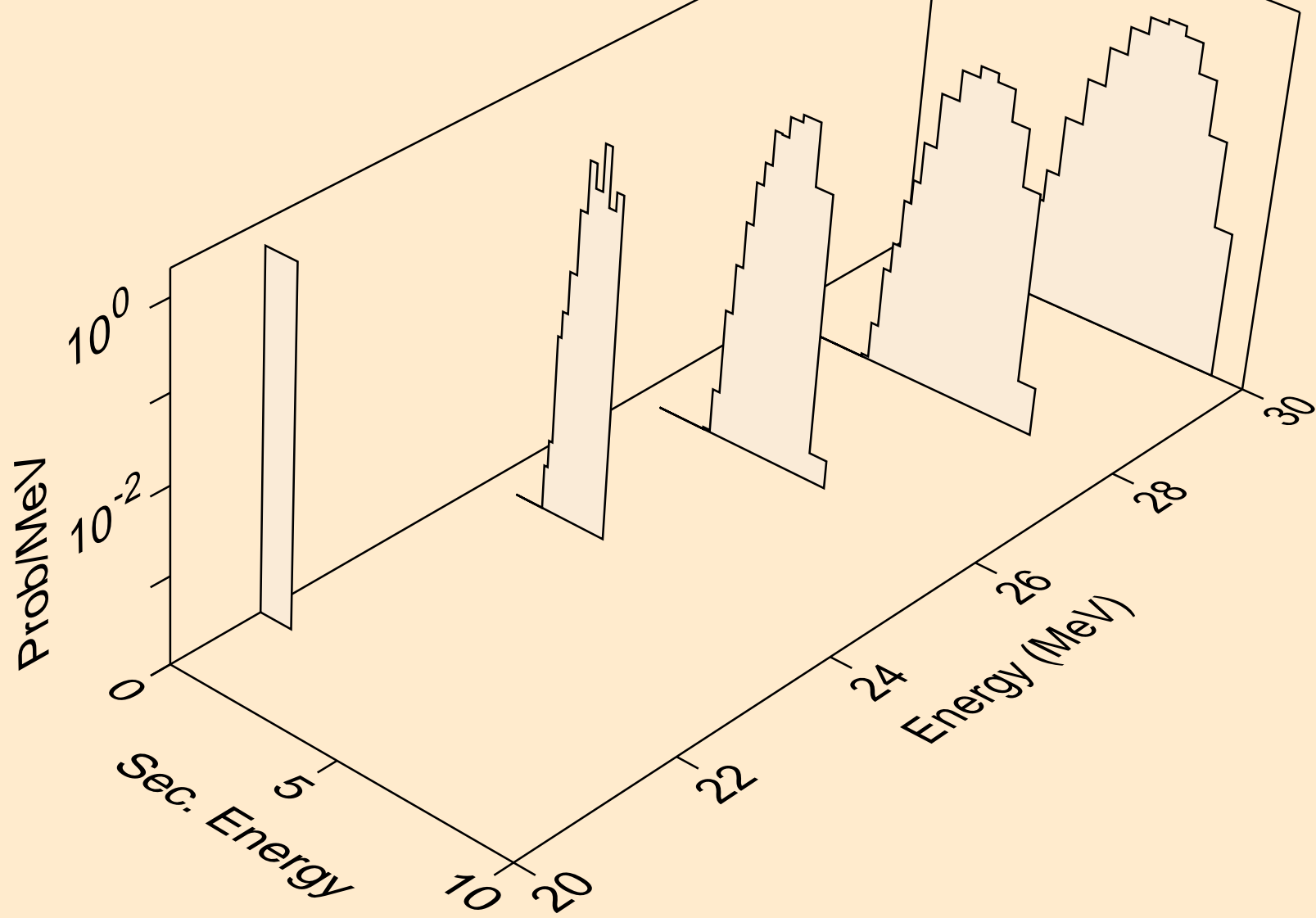
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protons from (n,pt)



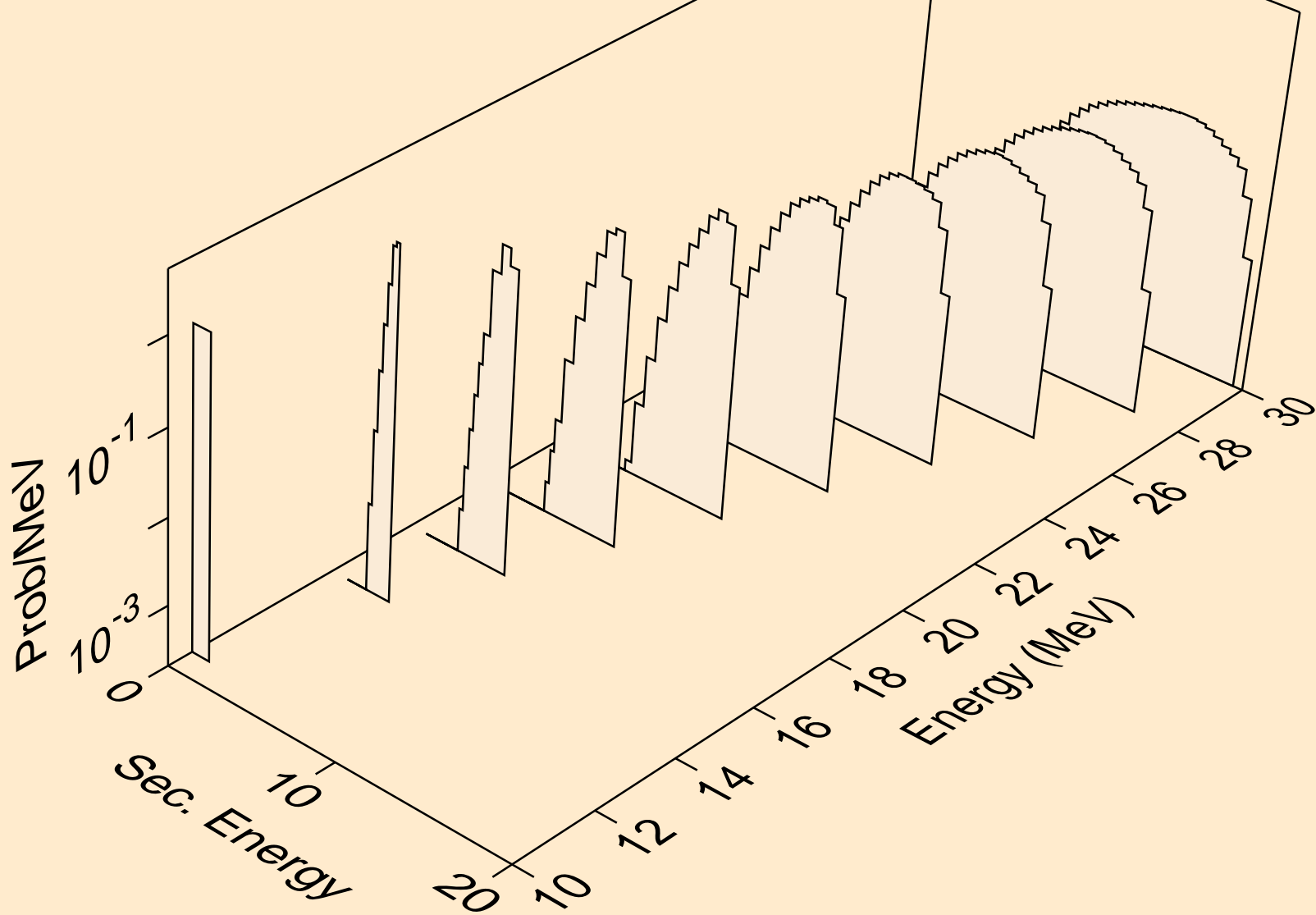
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deuterons from (n,x)



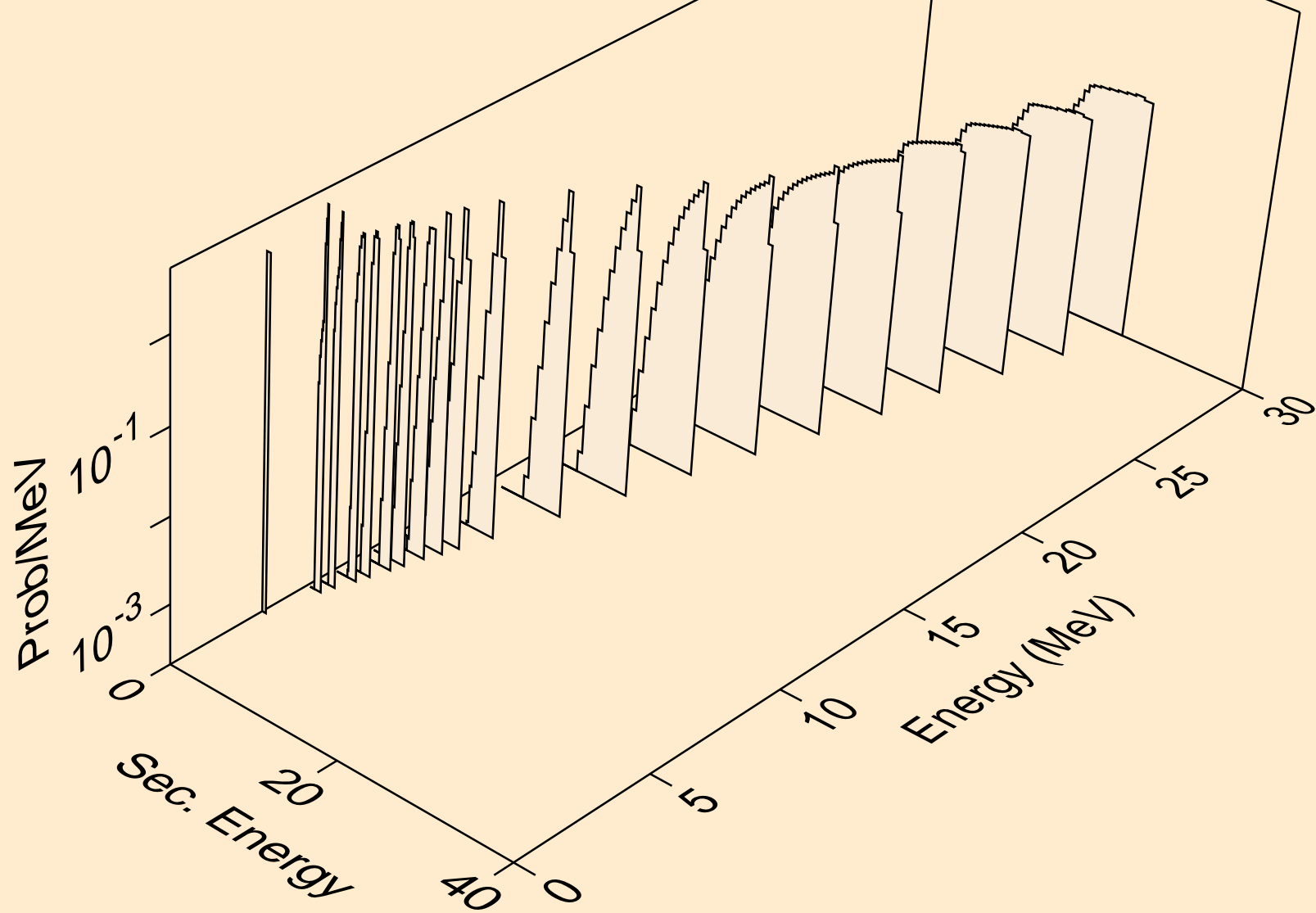
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deuterons from (n,2nd)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
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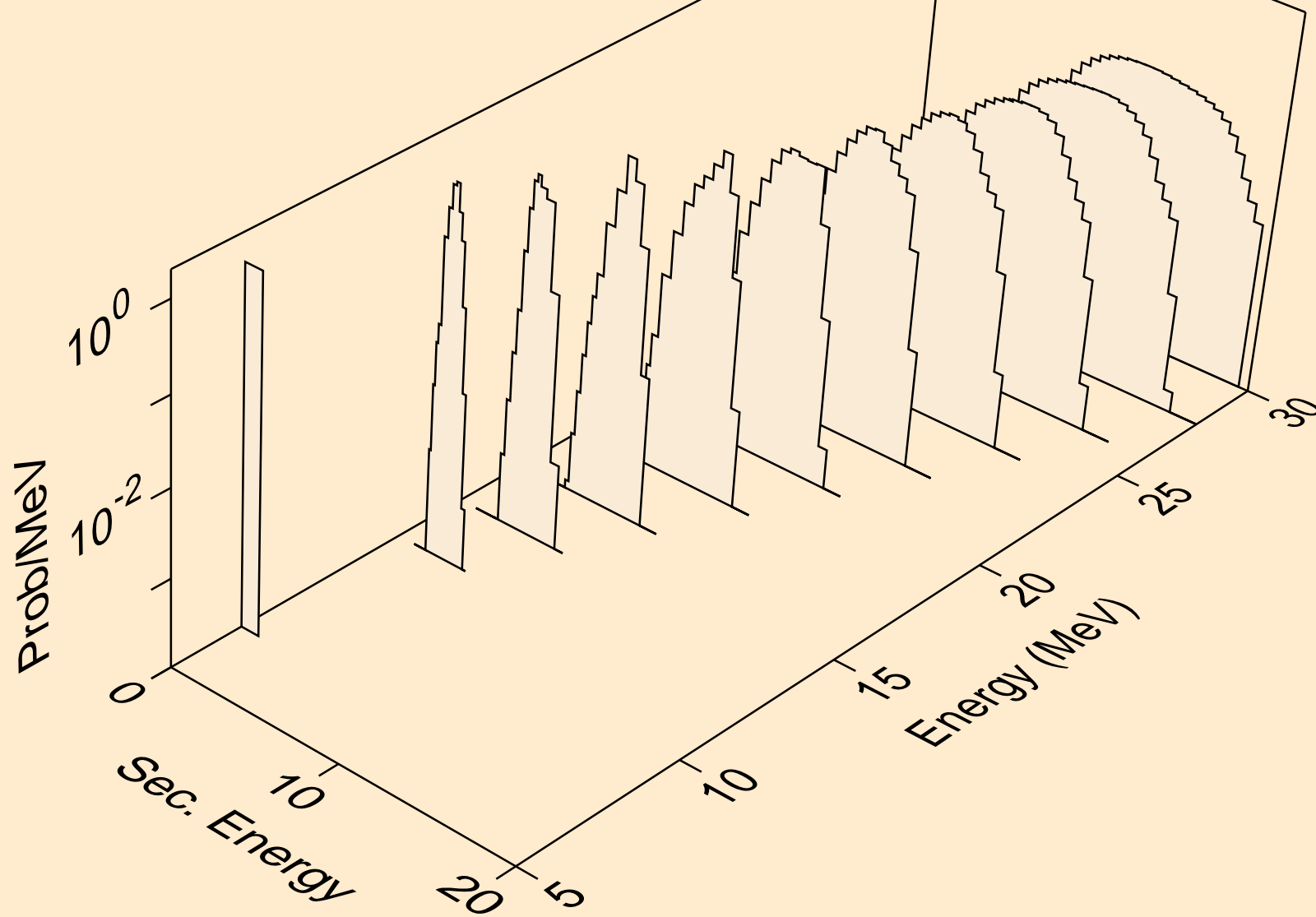


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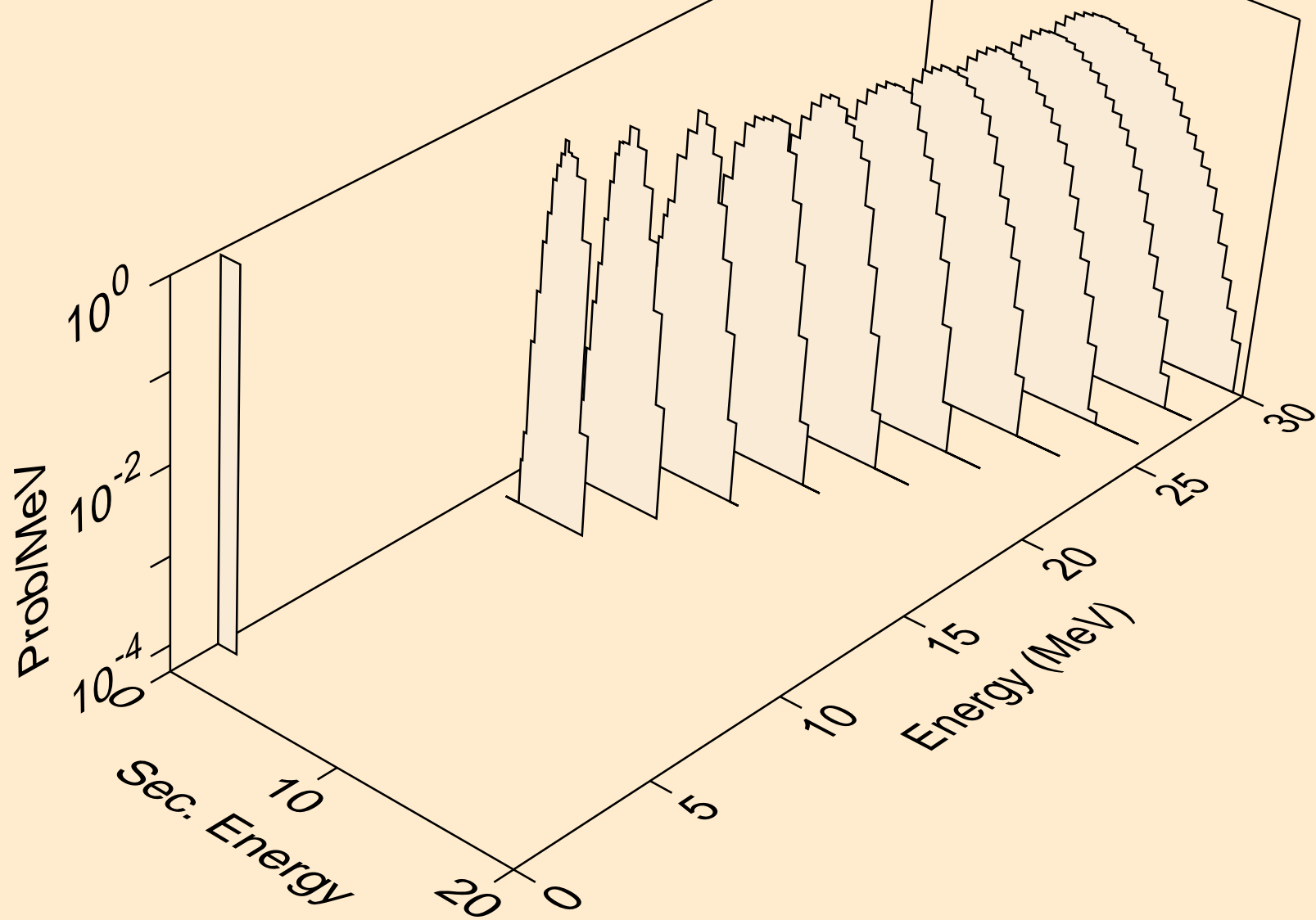




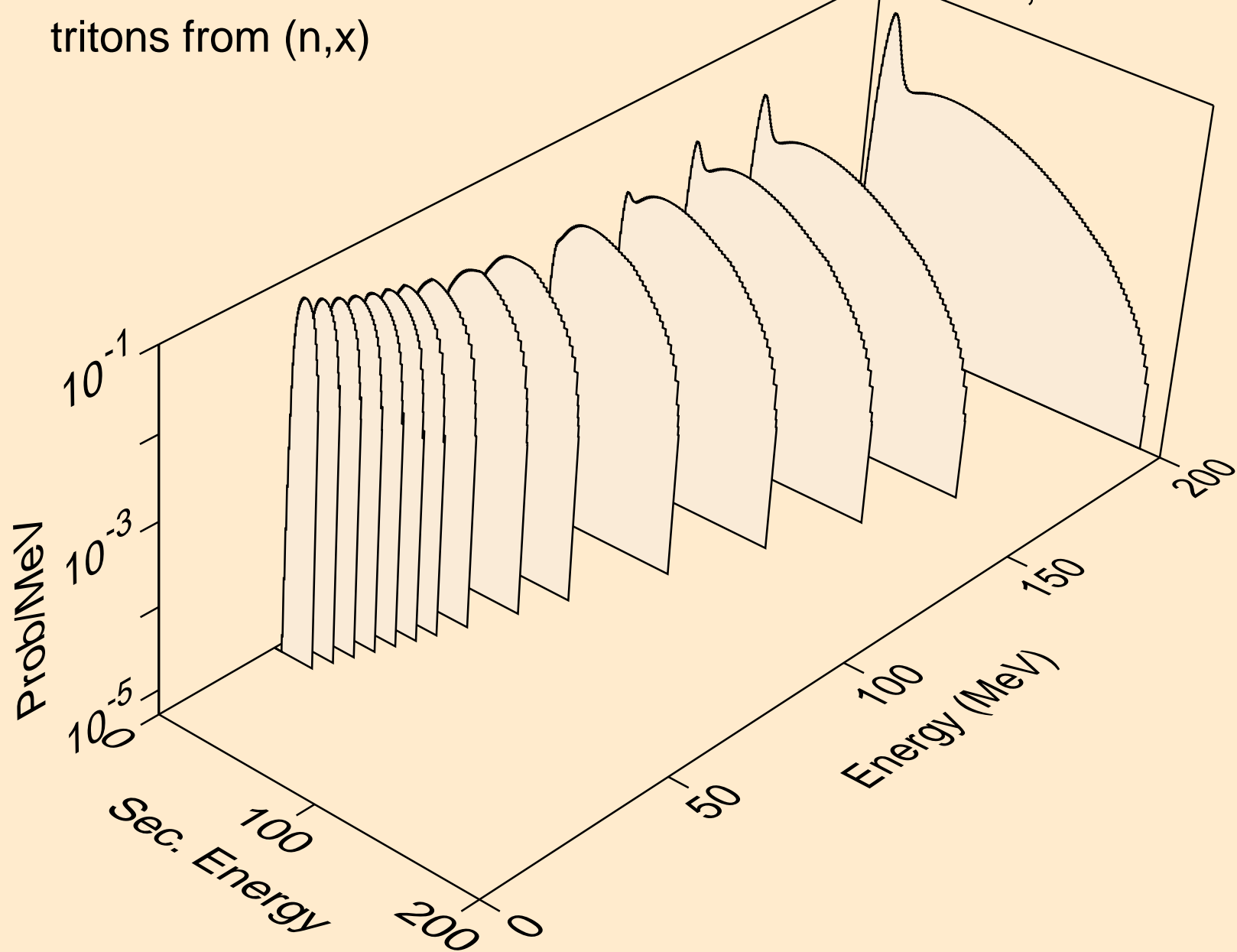
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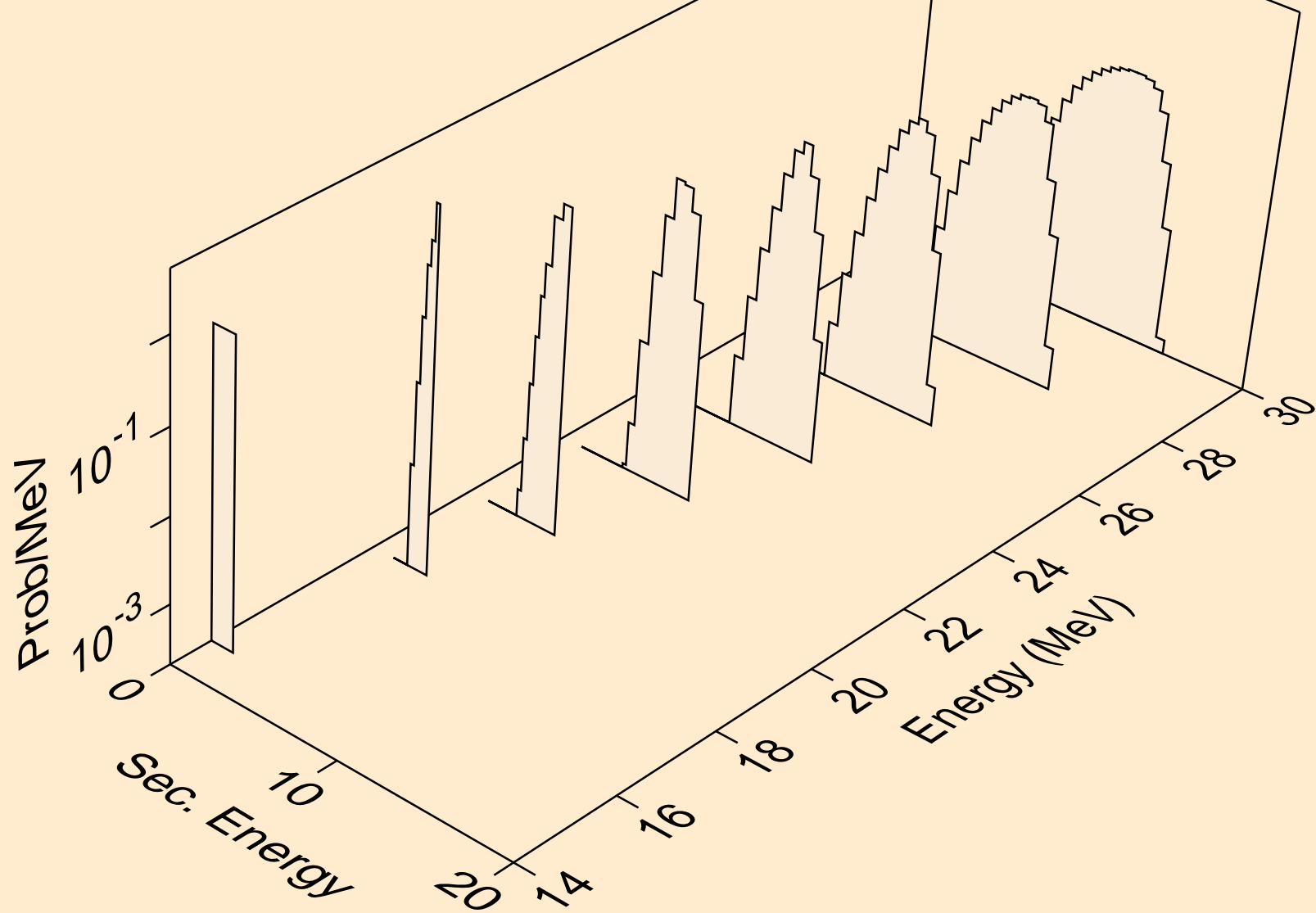
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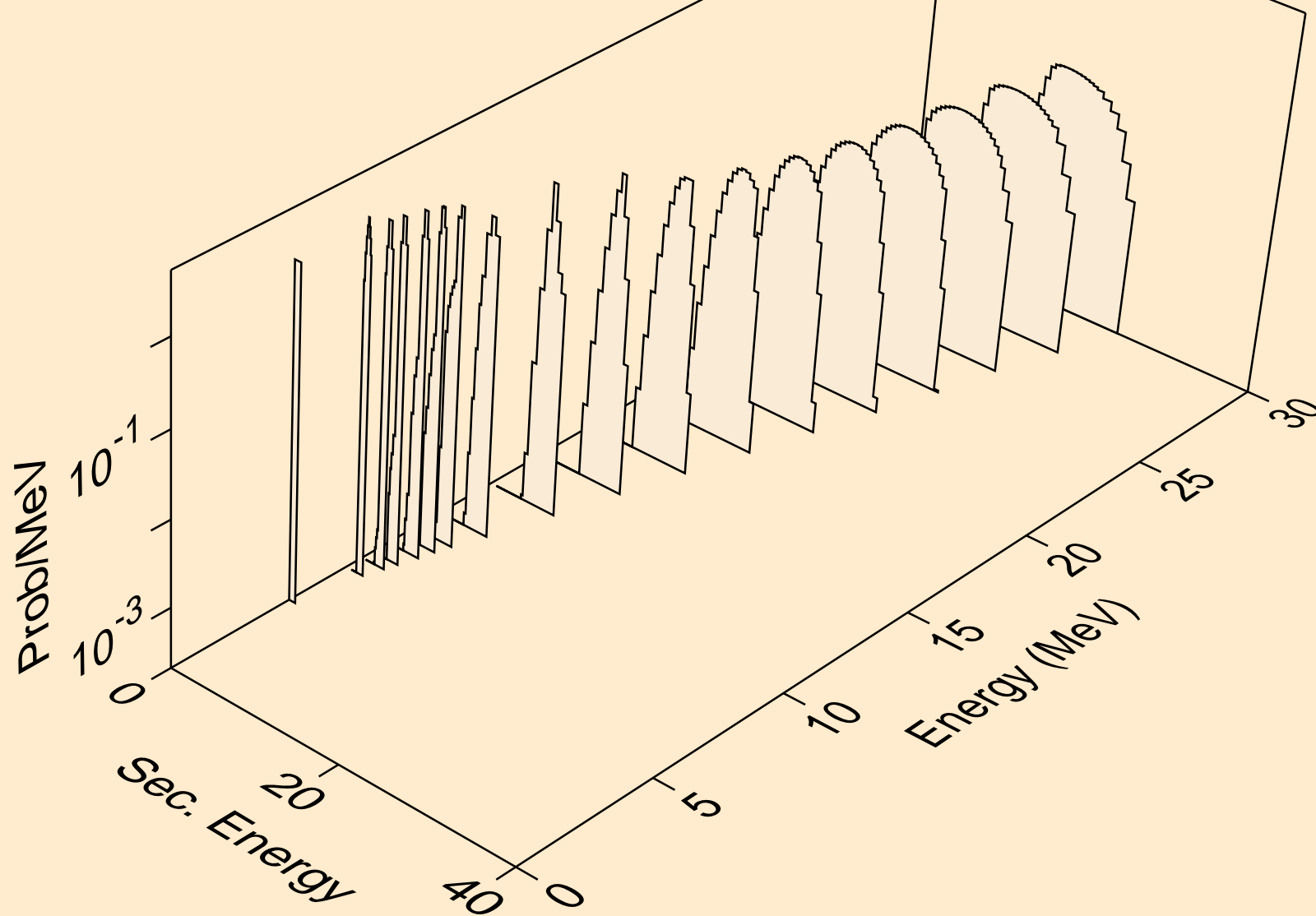
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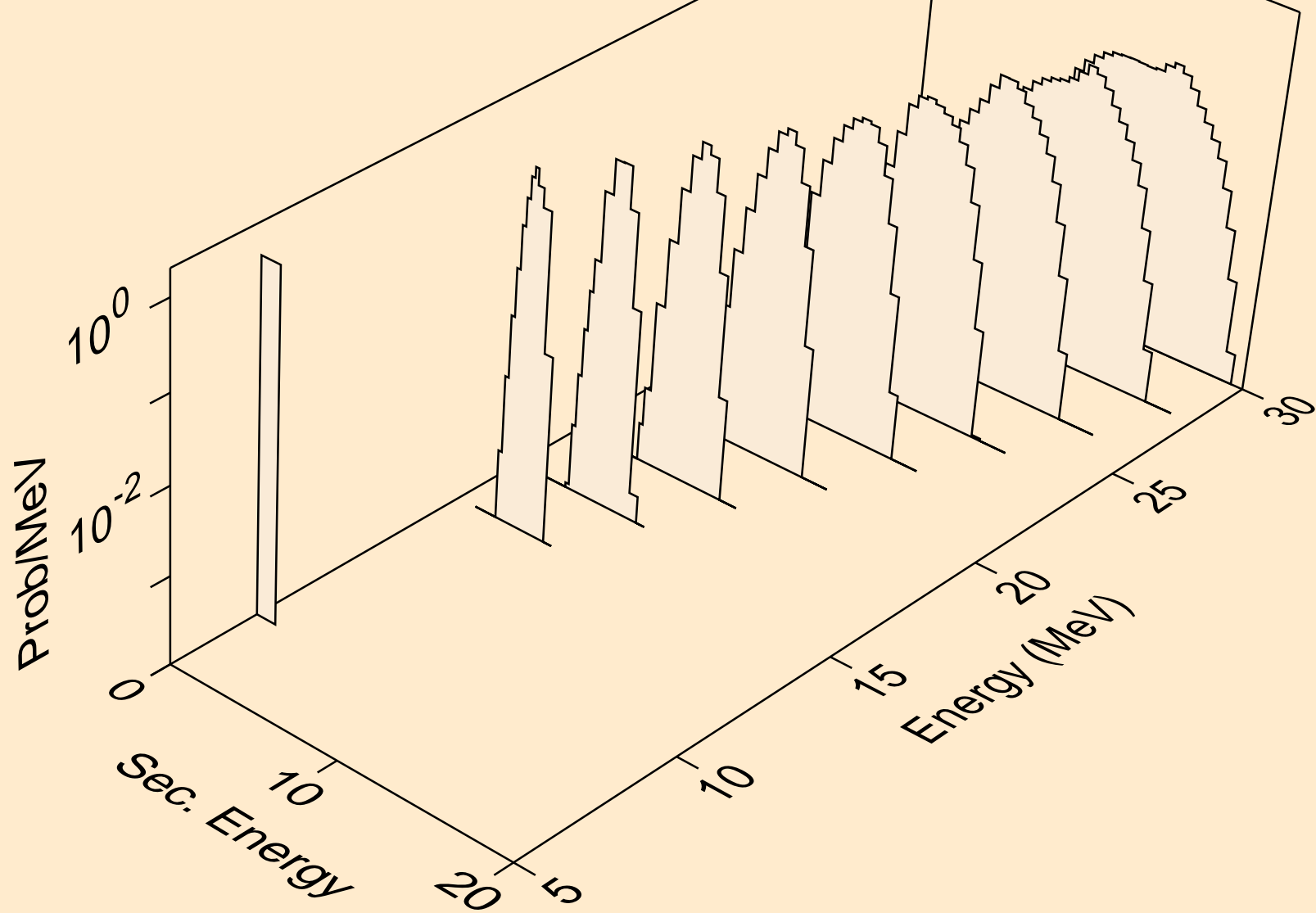
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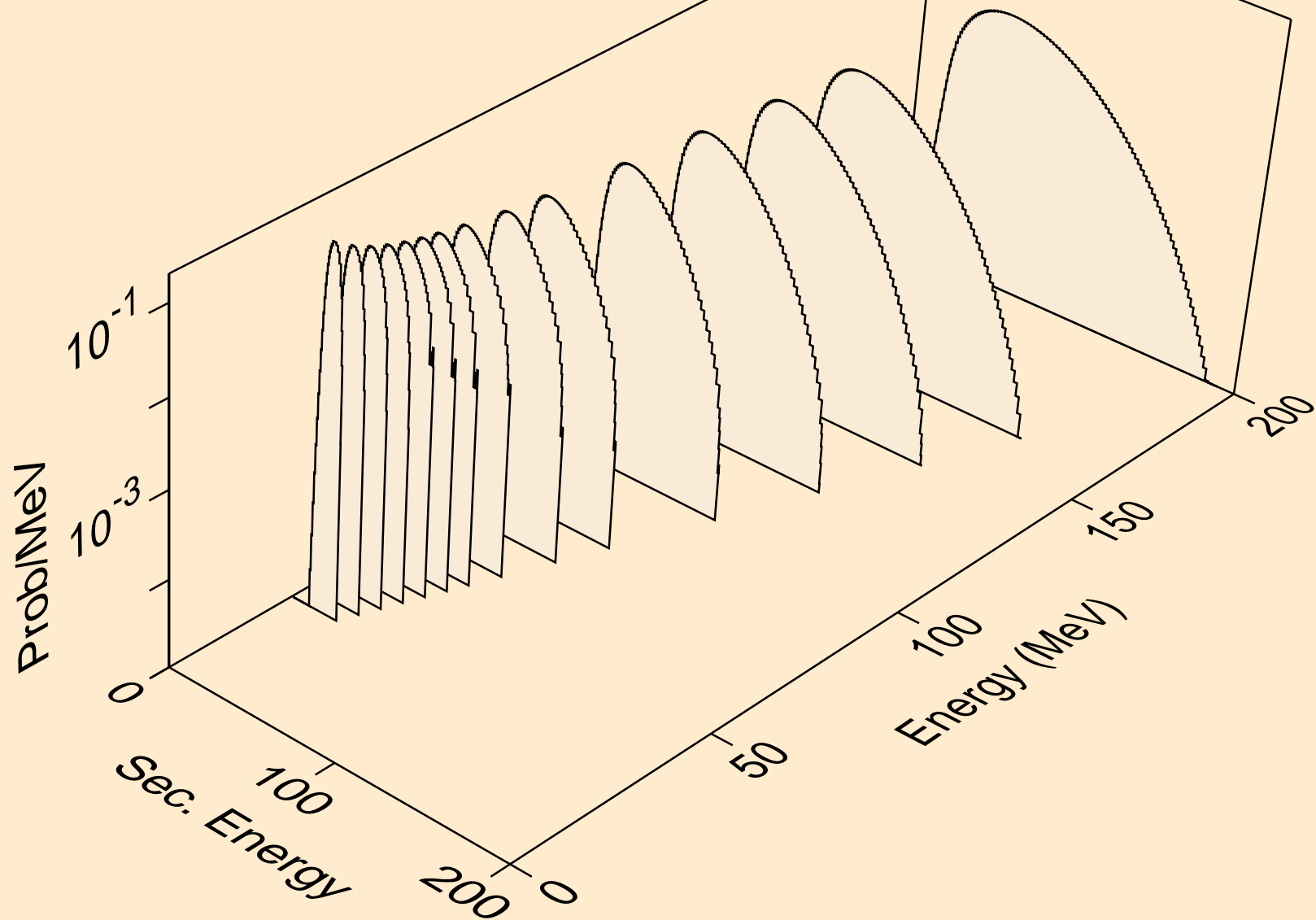
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tritons from (n,t)



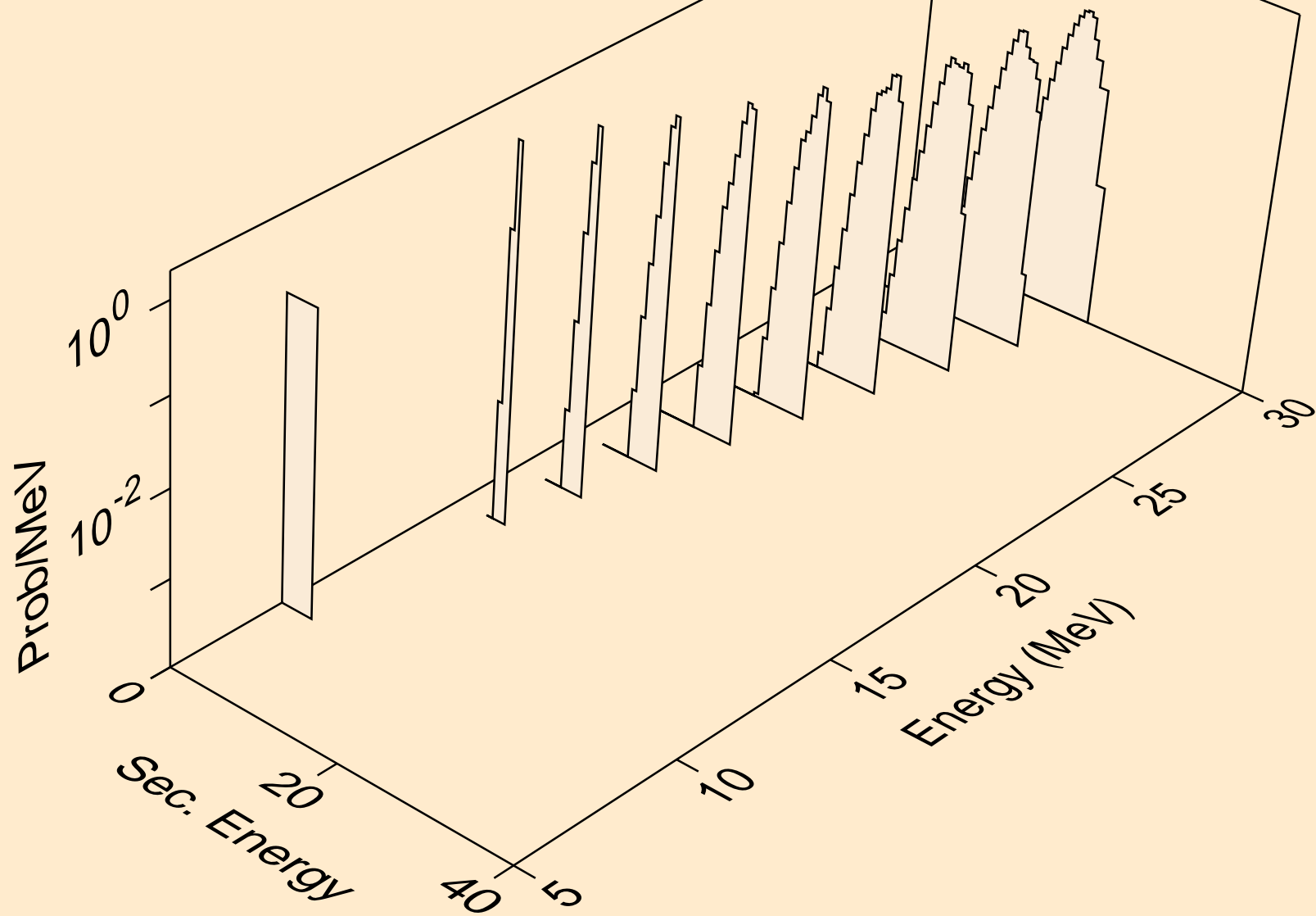
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)

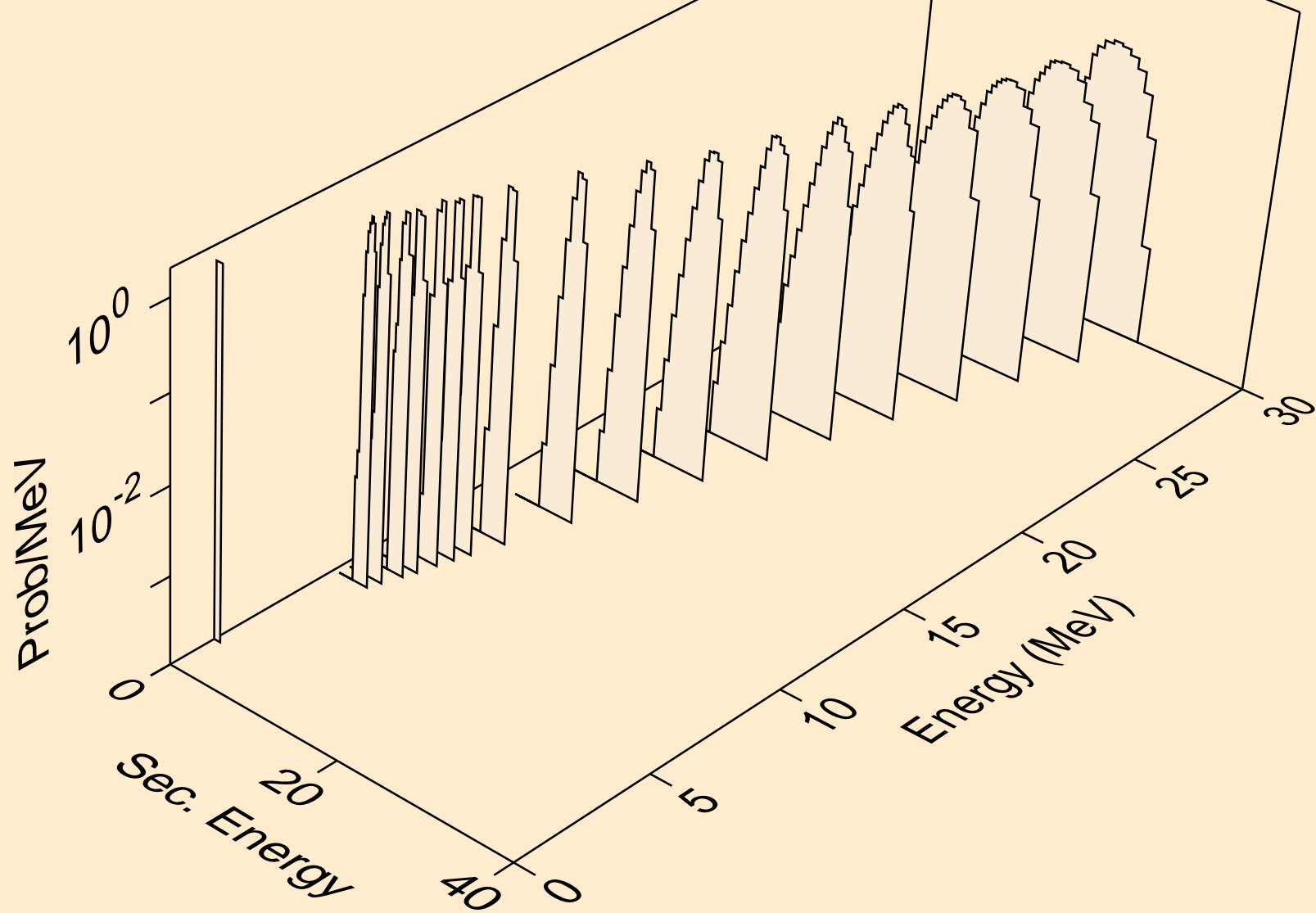


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

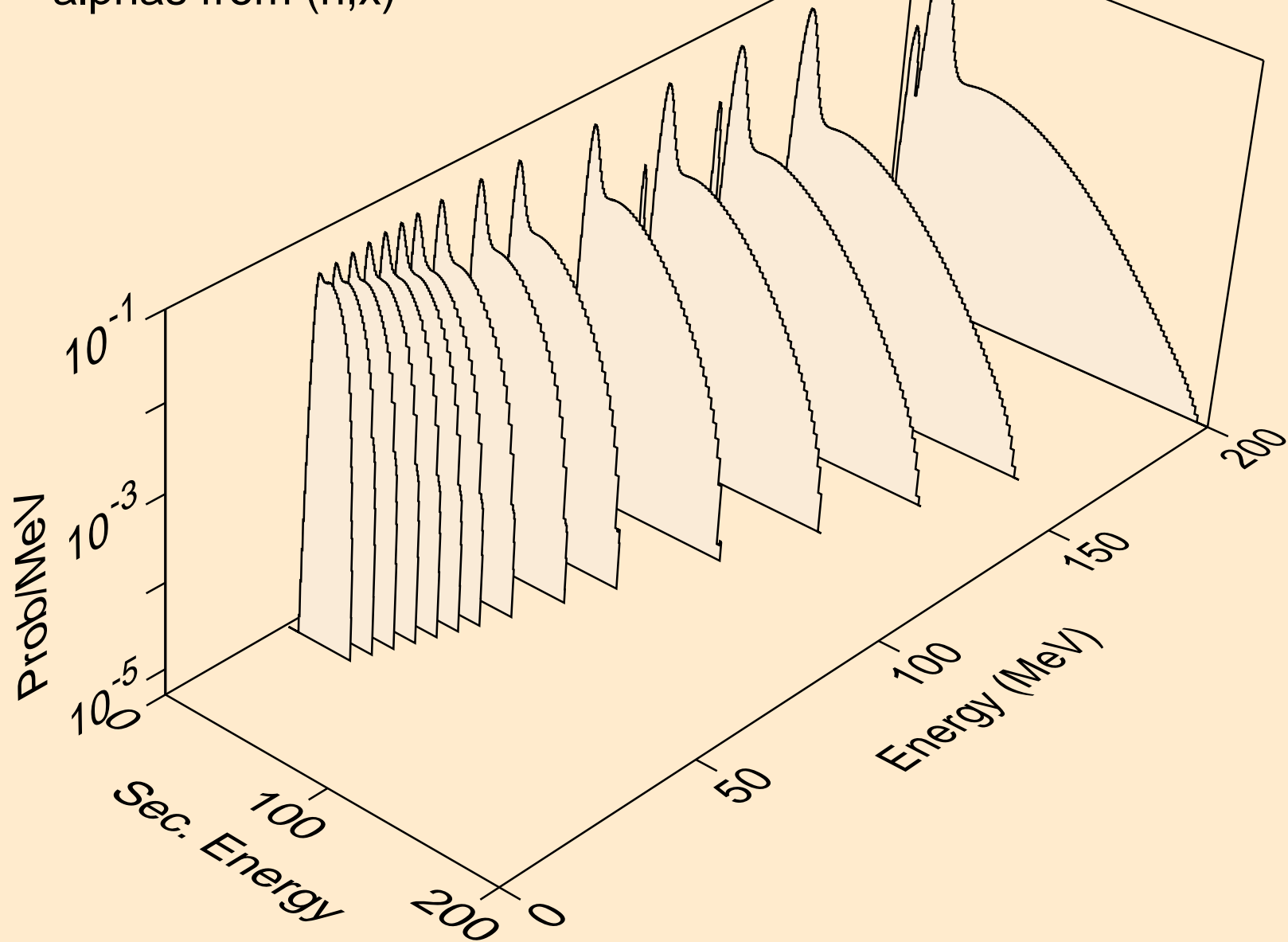




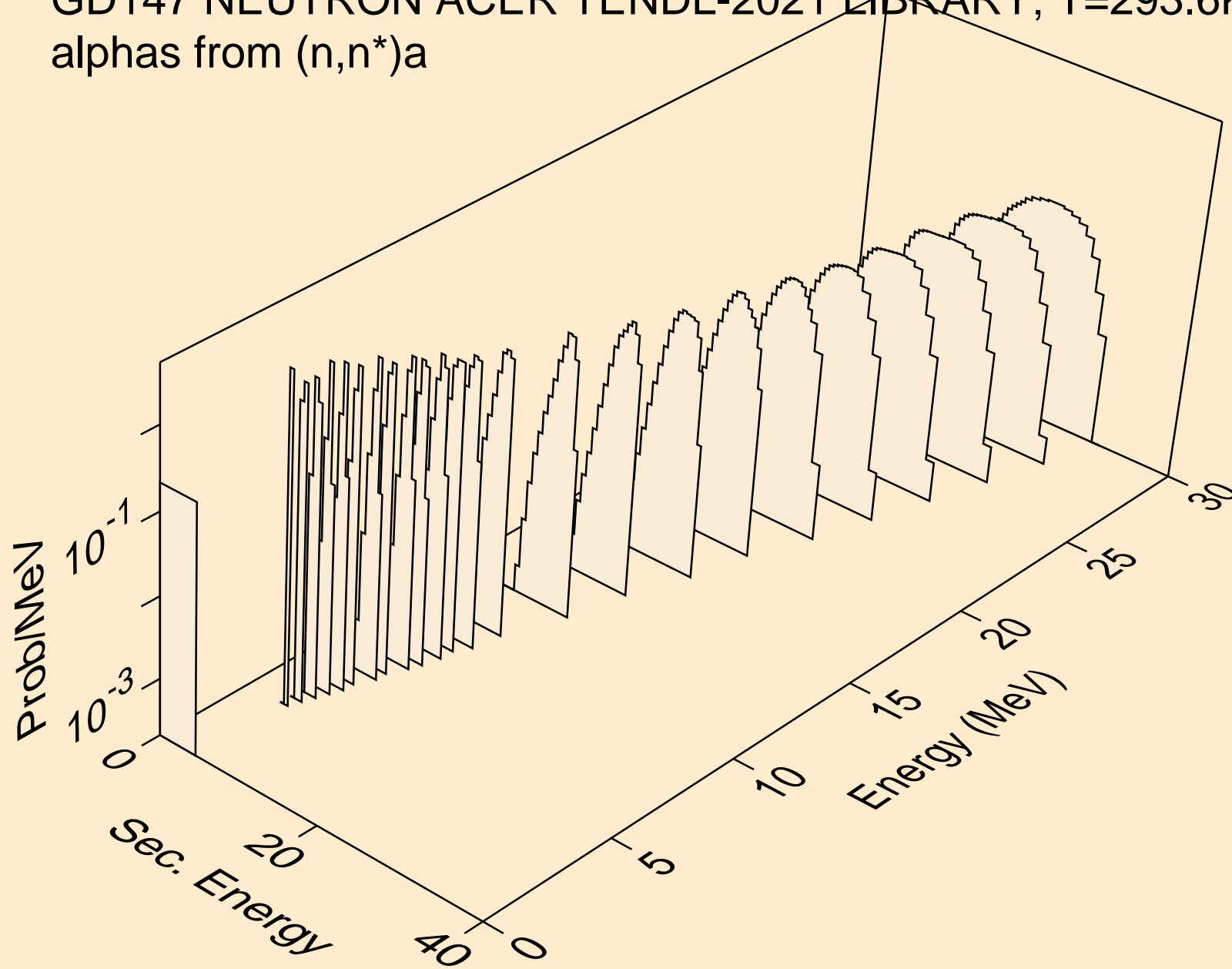
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)



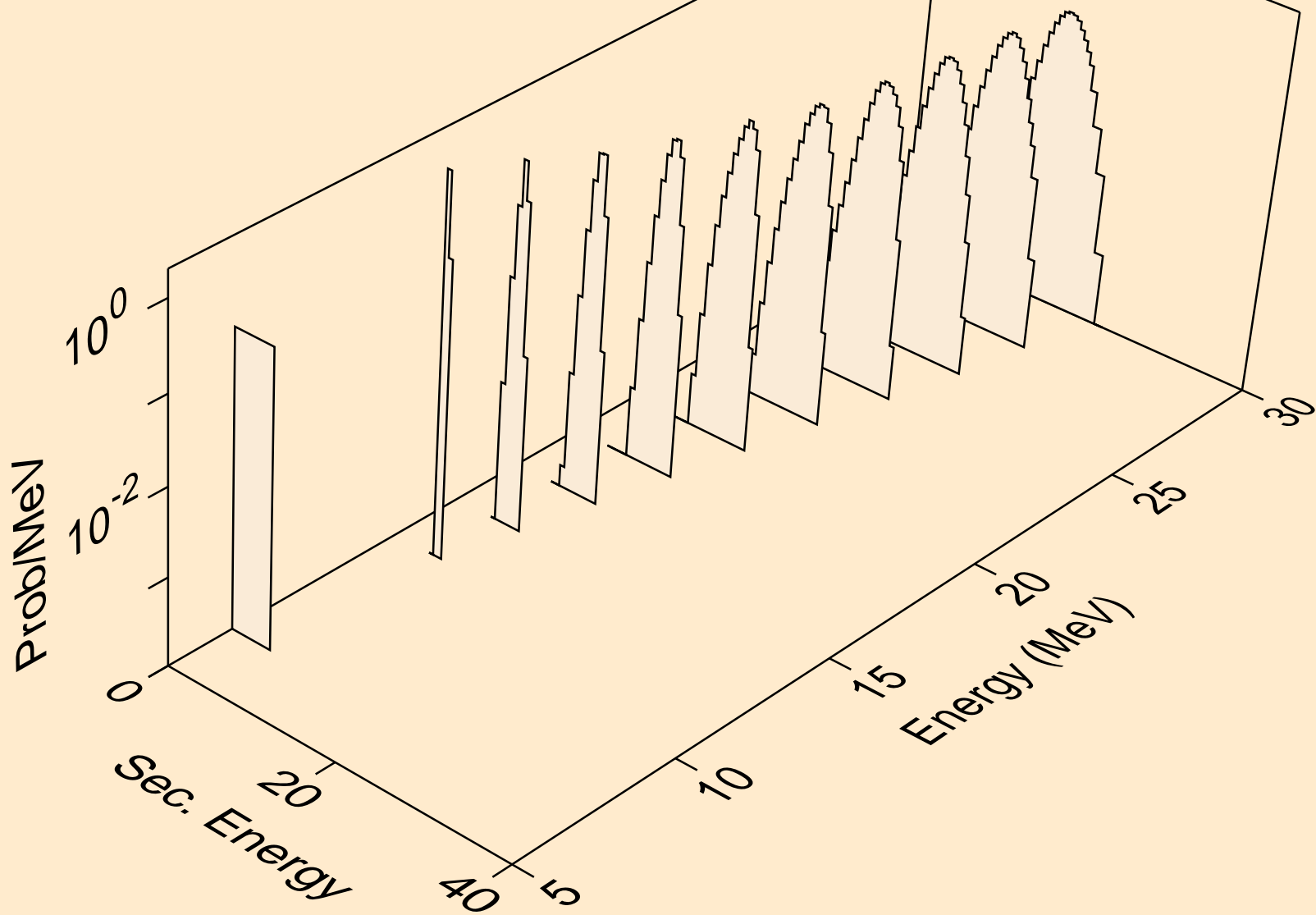
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



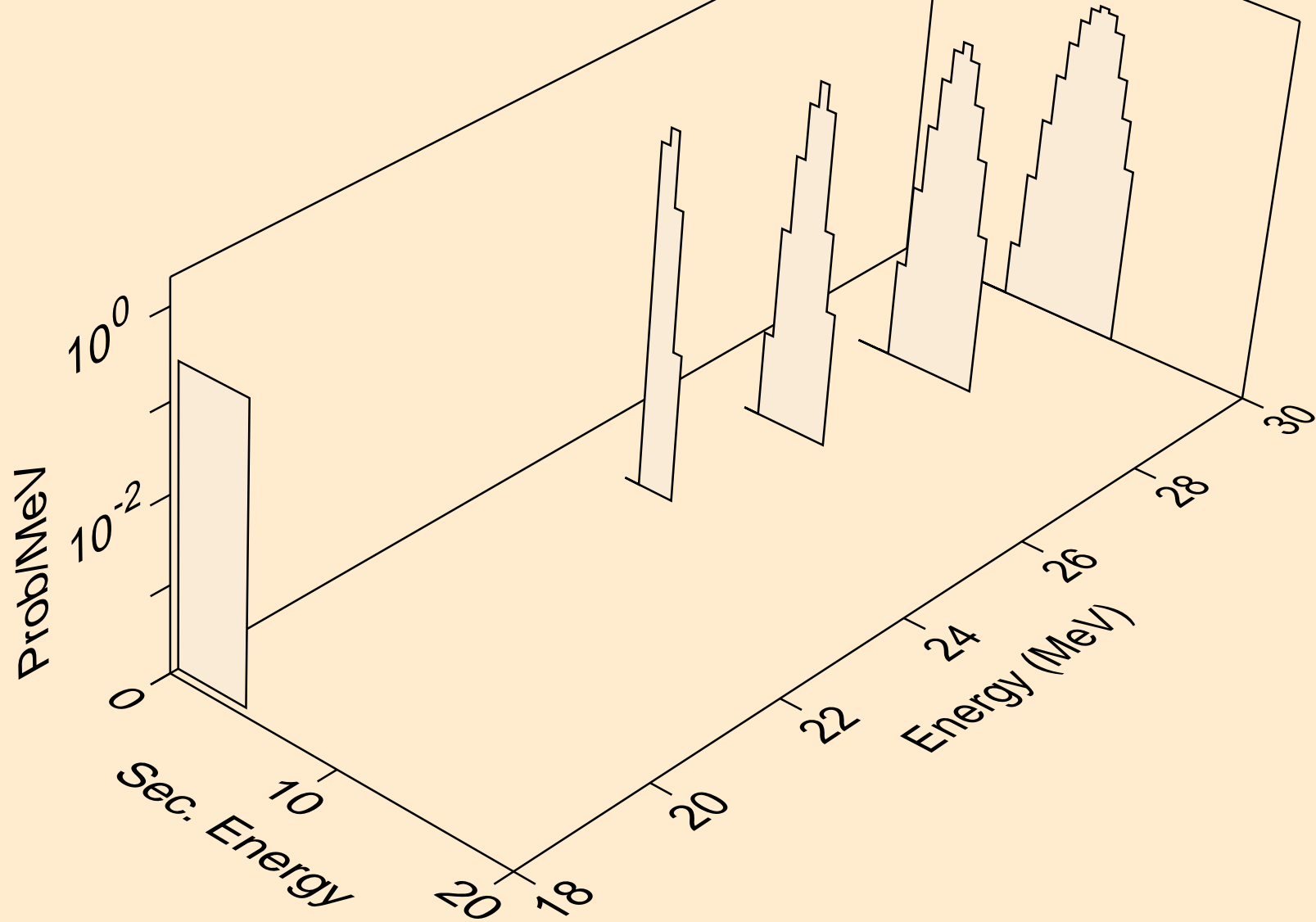
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



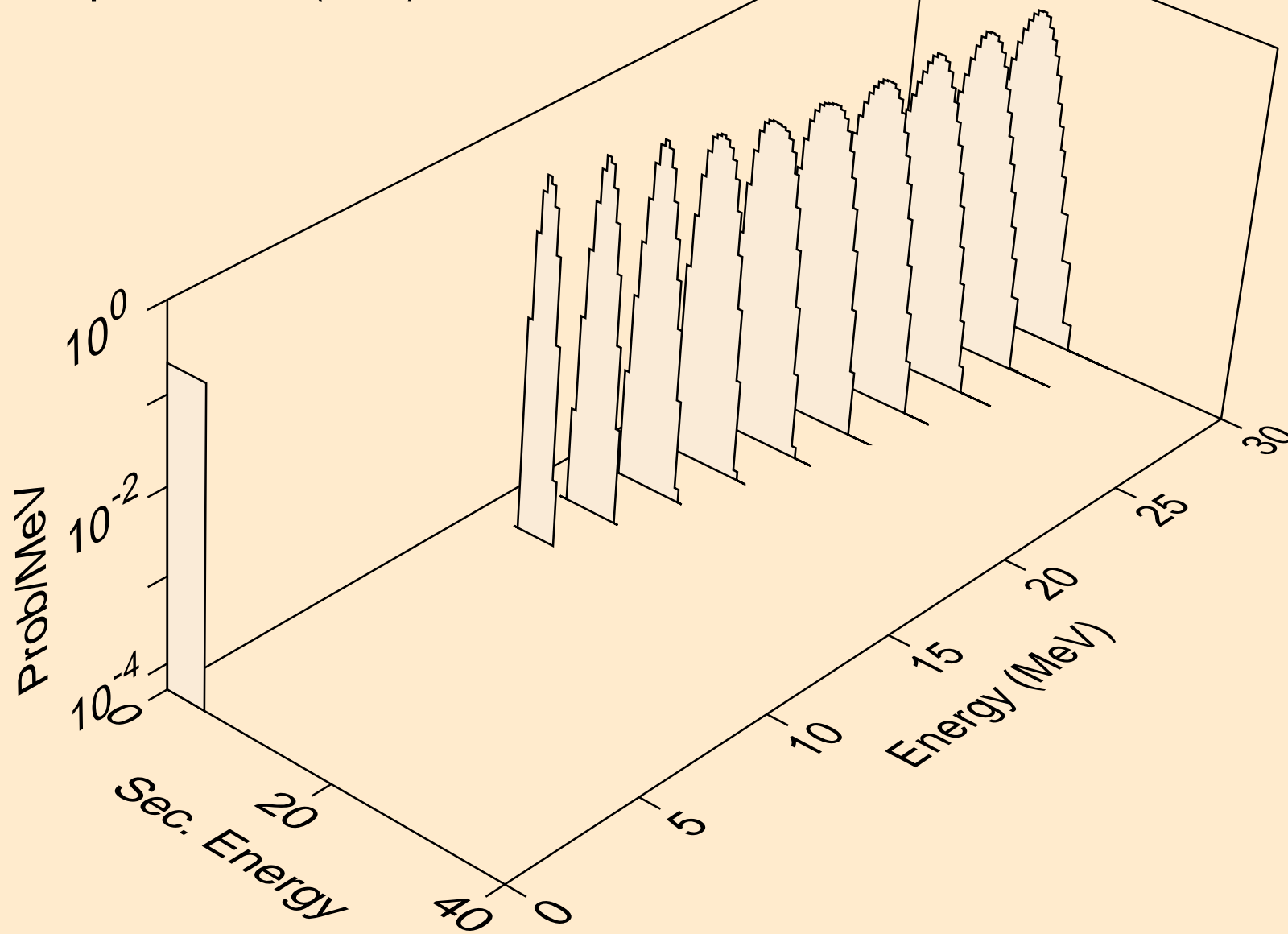
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



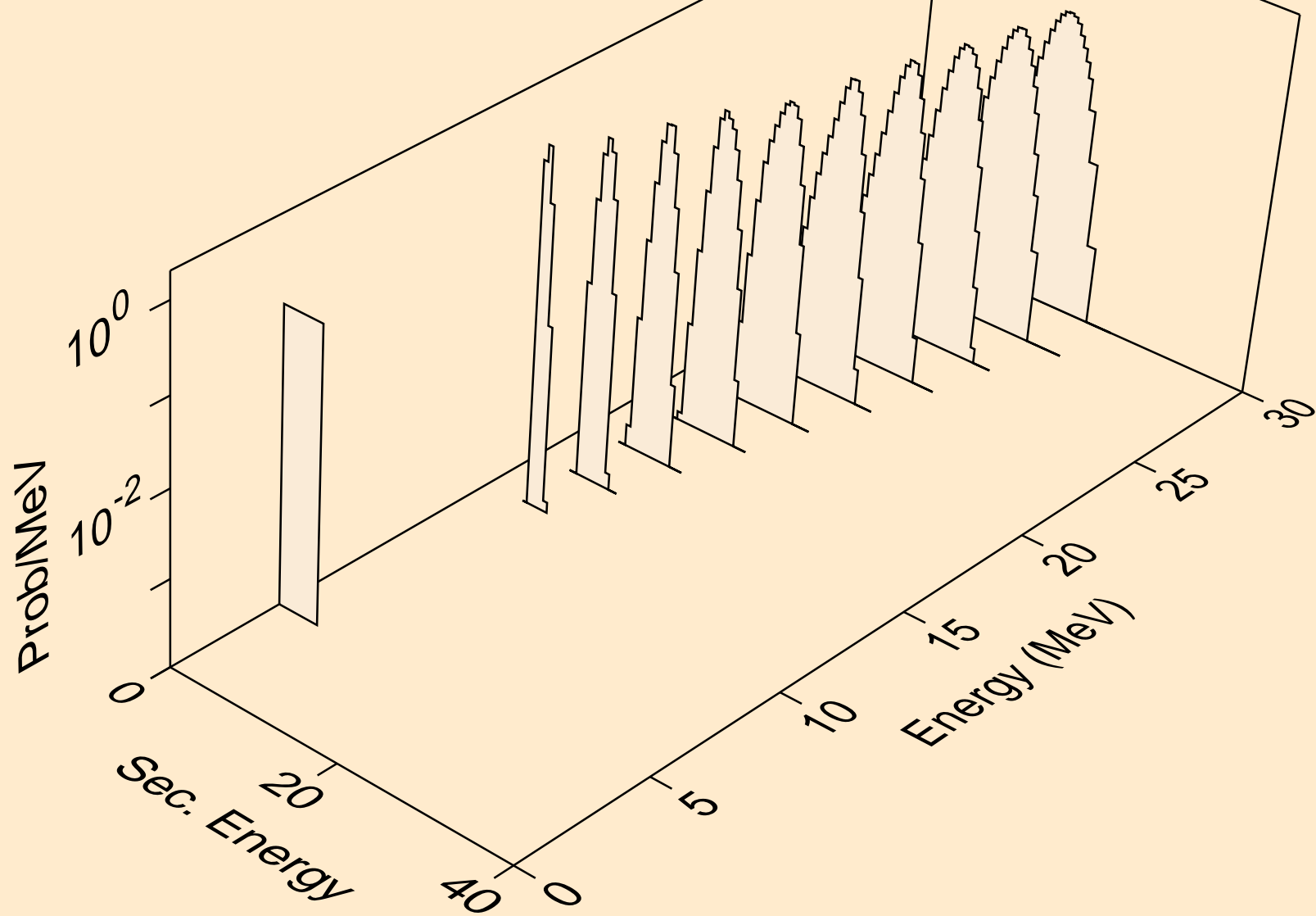
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



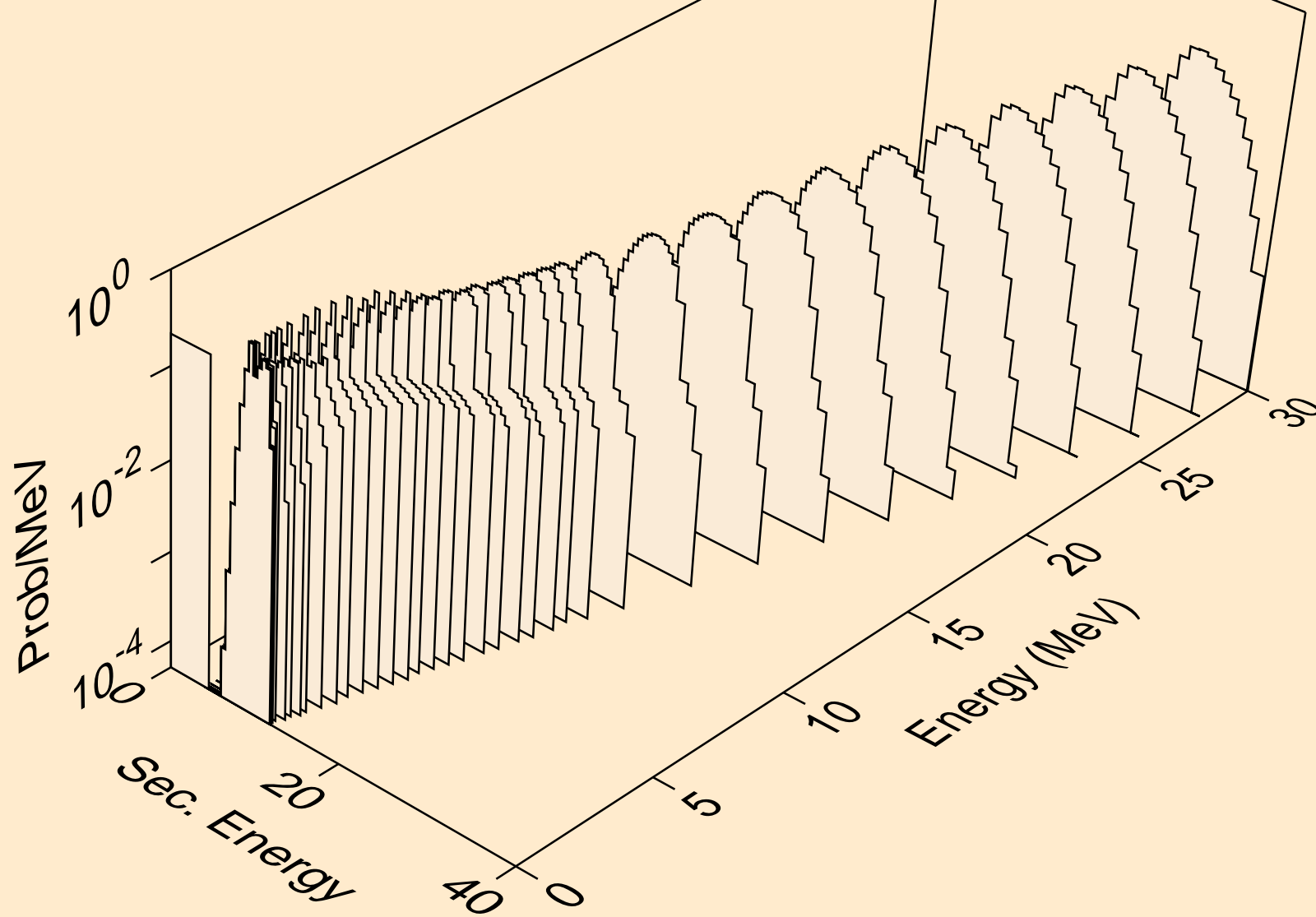
GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)

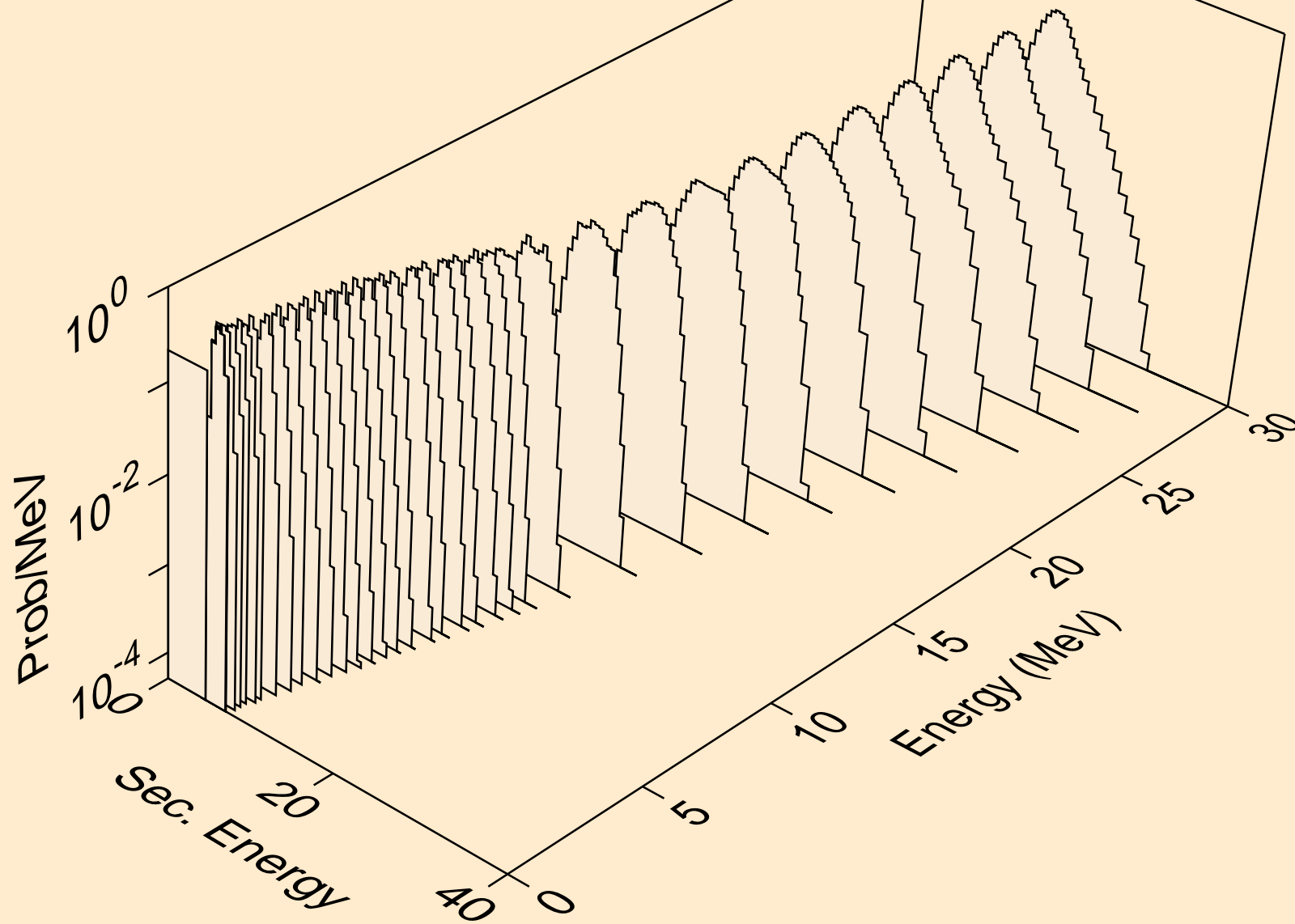


GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)

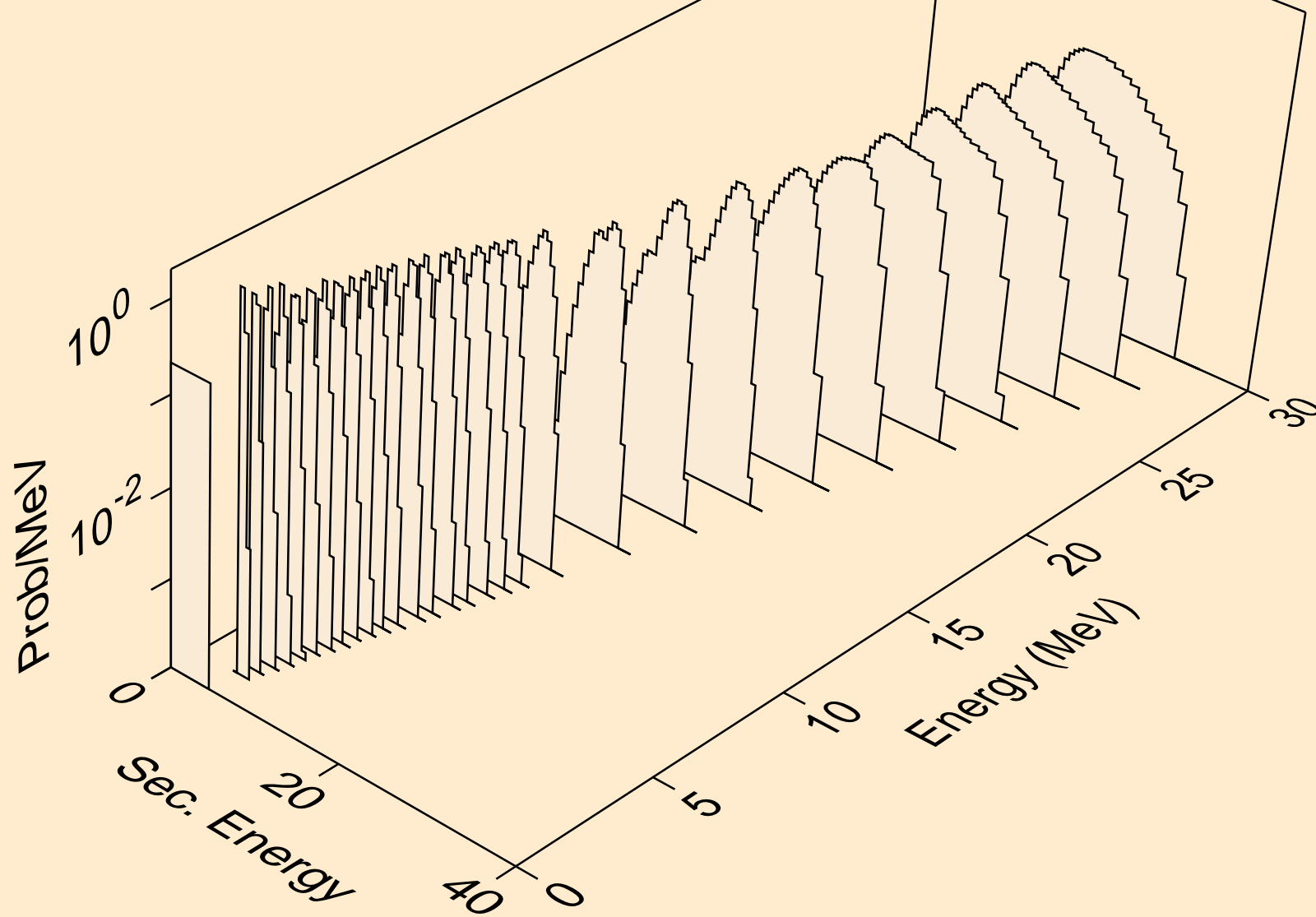




GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



GD147 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

