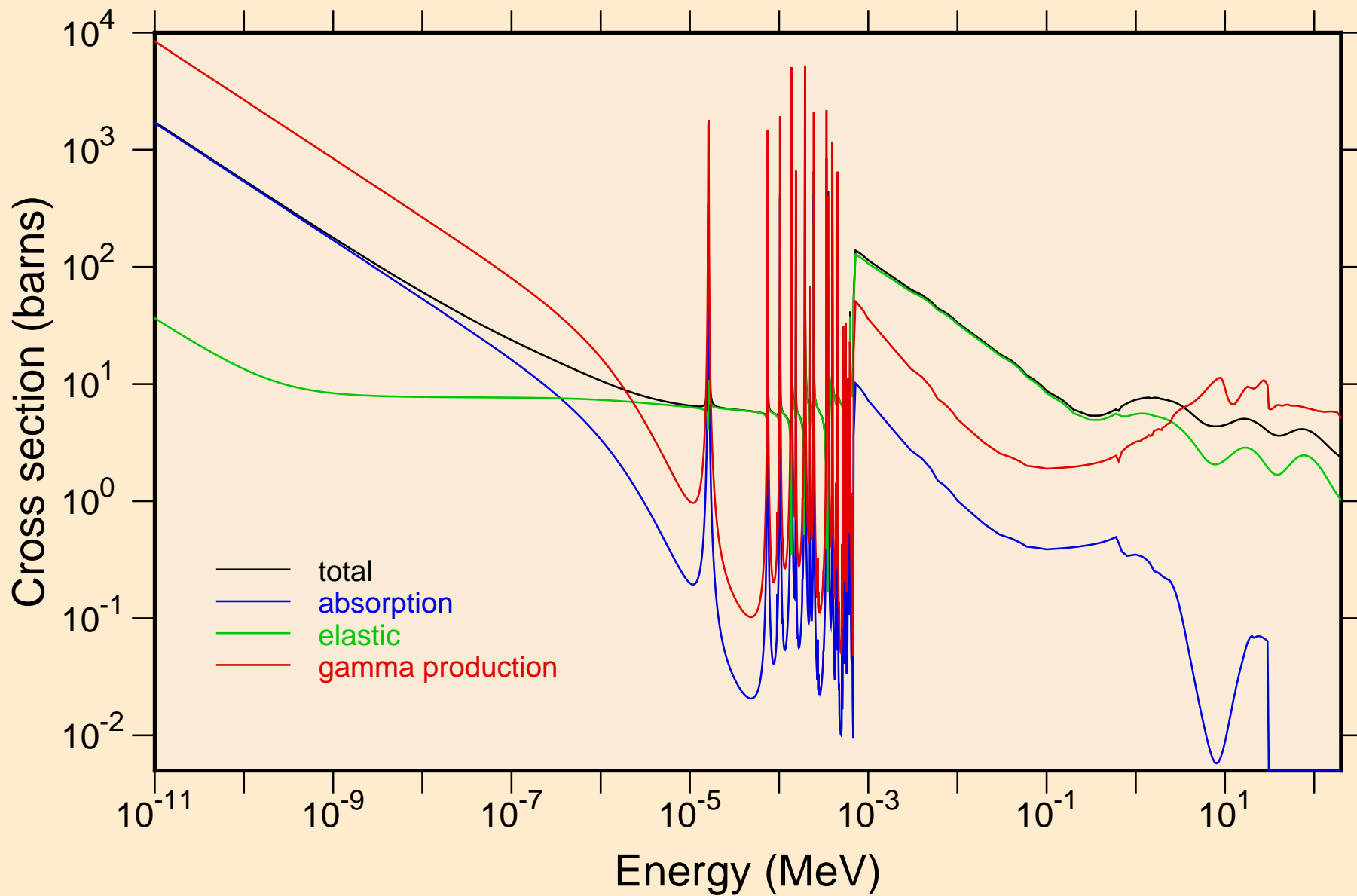
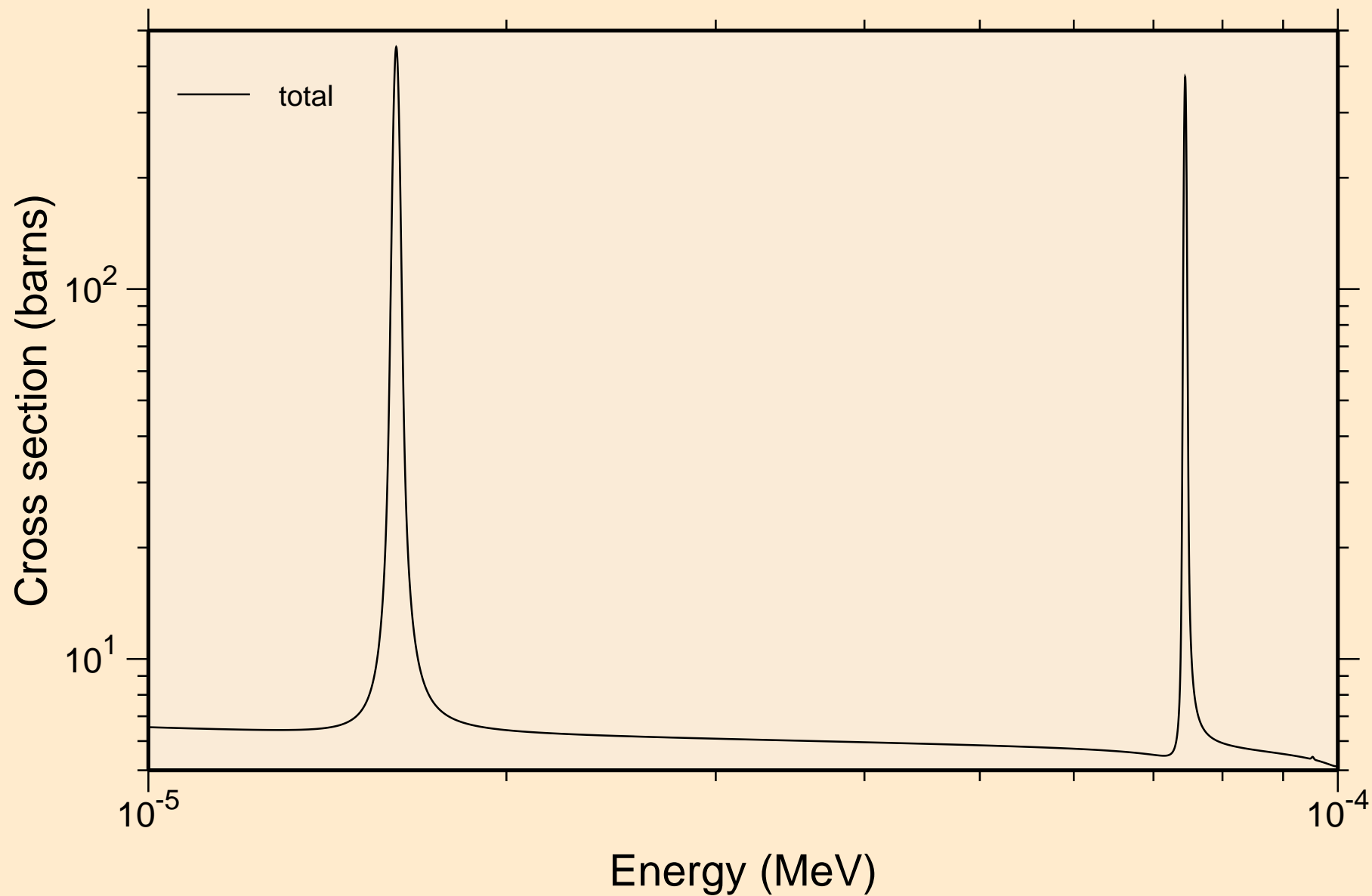


# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

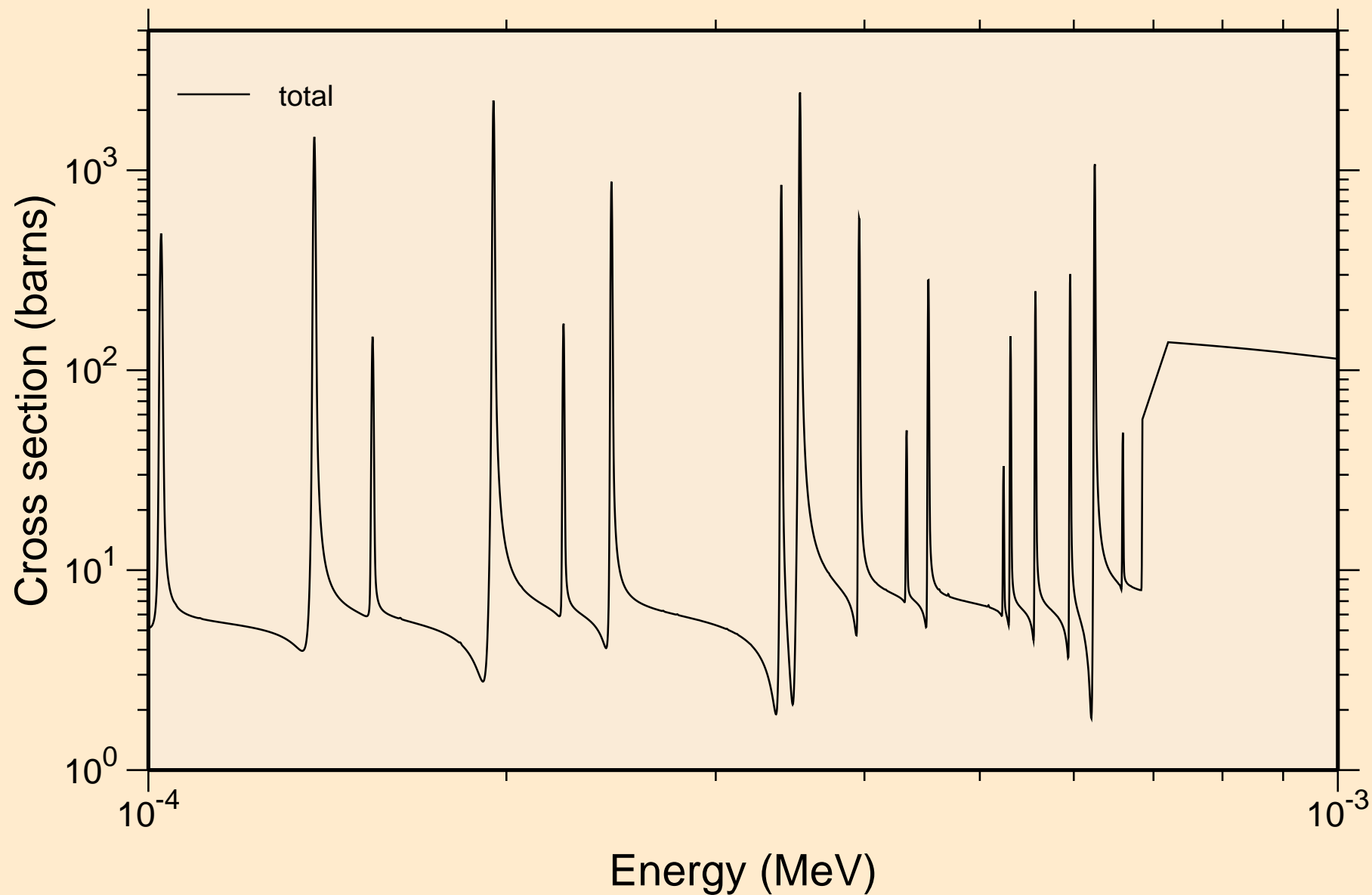
## Principal cross sections



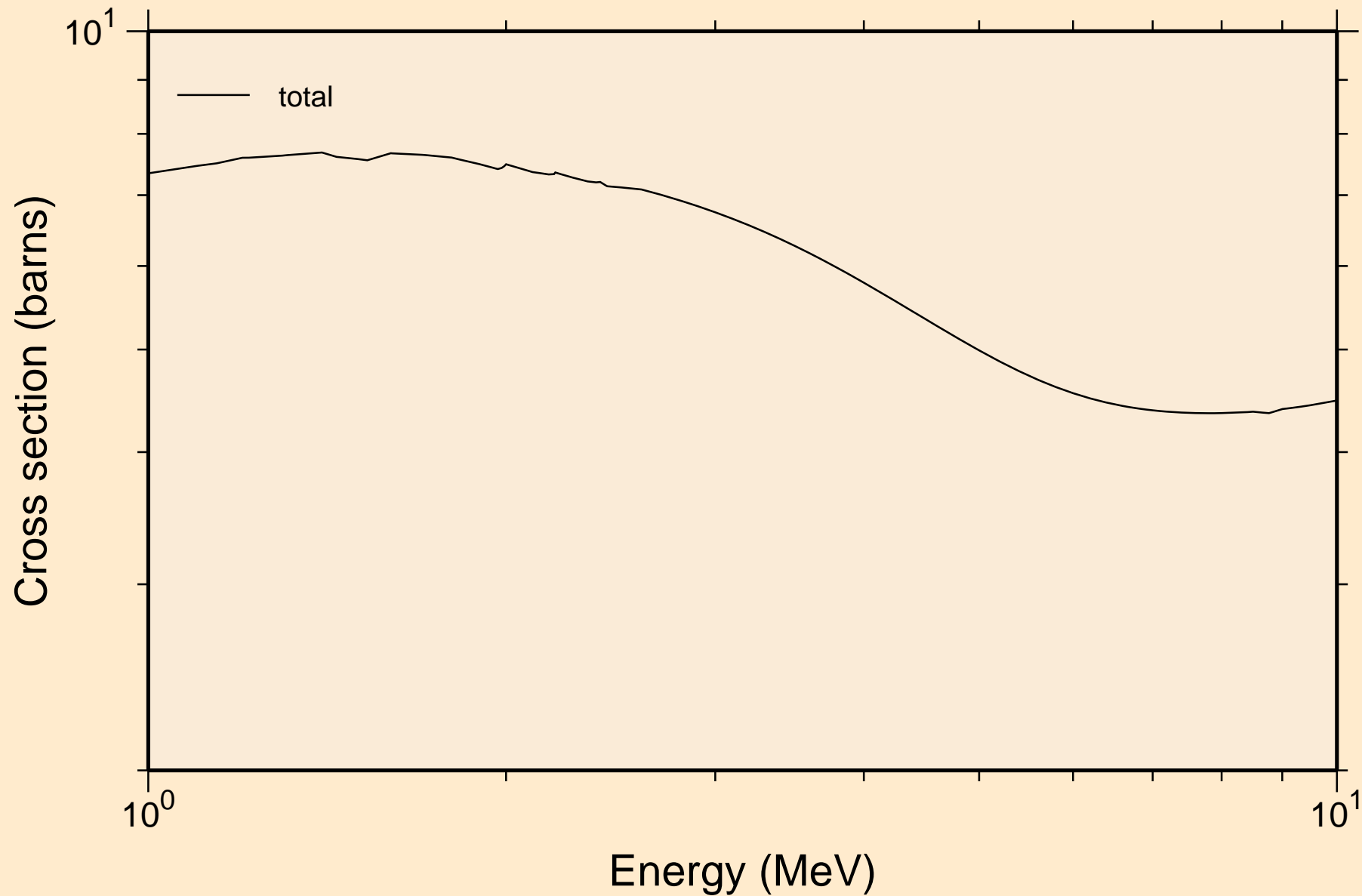
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



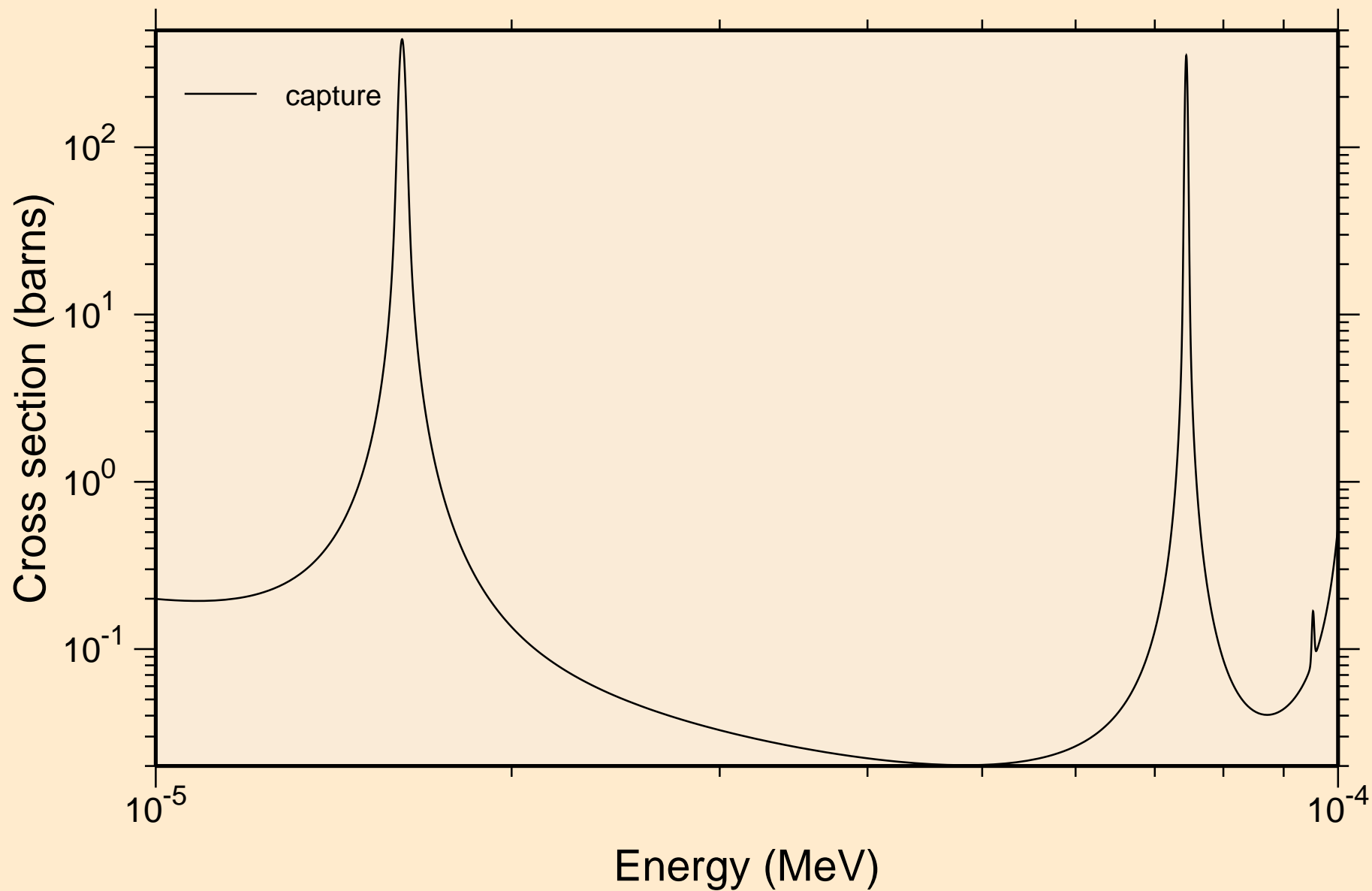
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



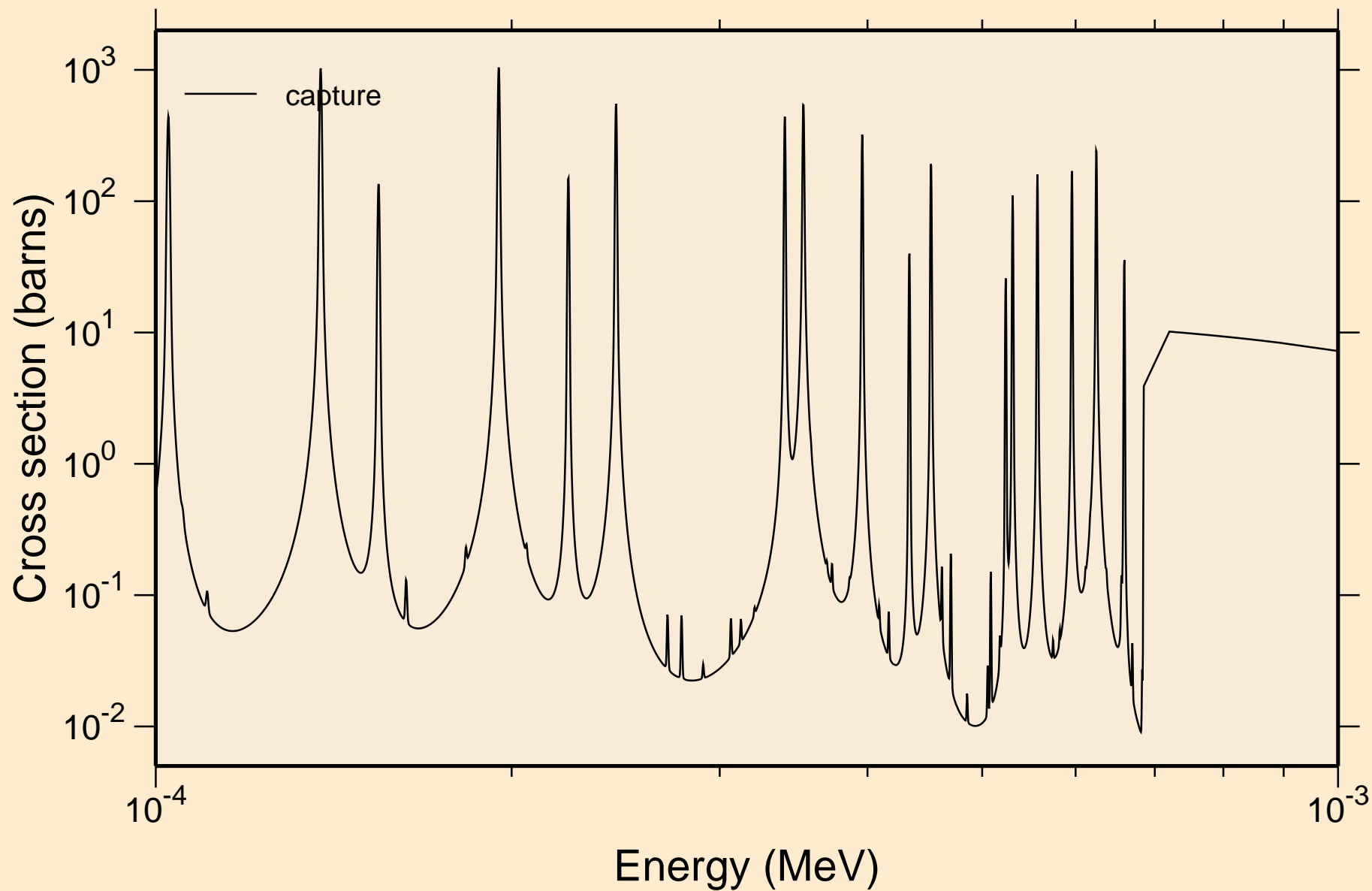
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



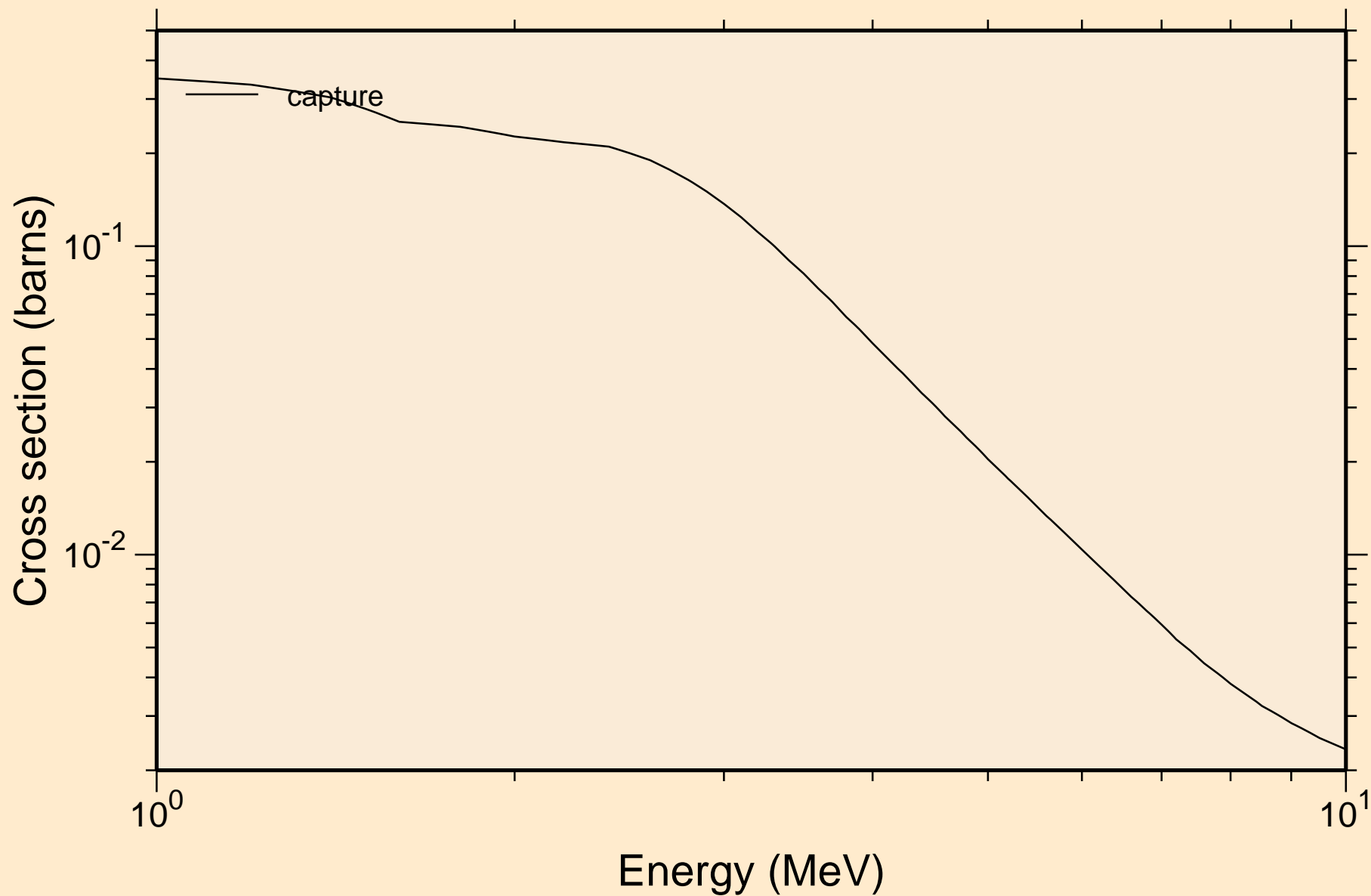
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



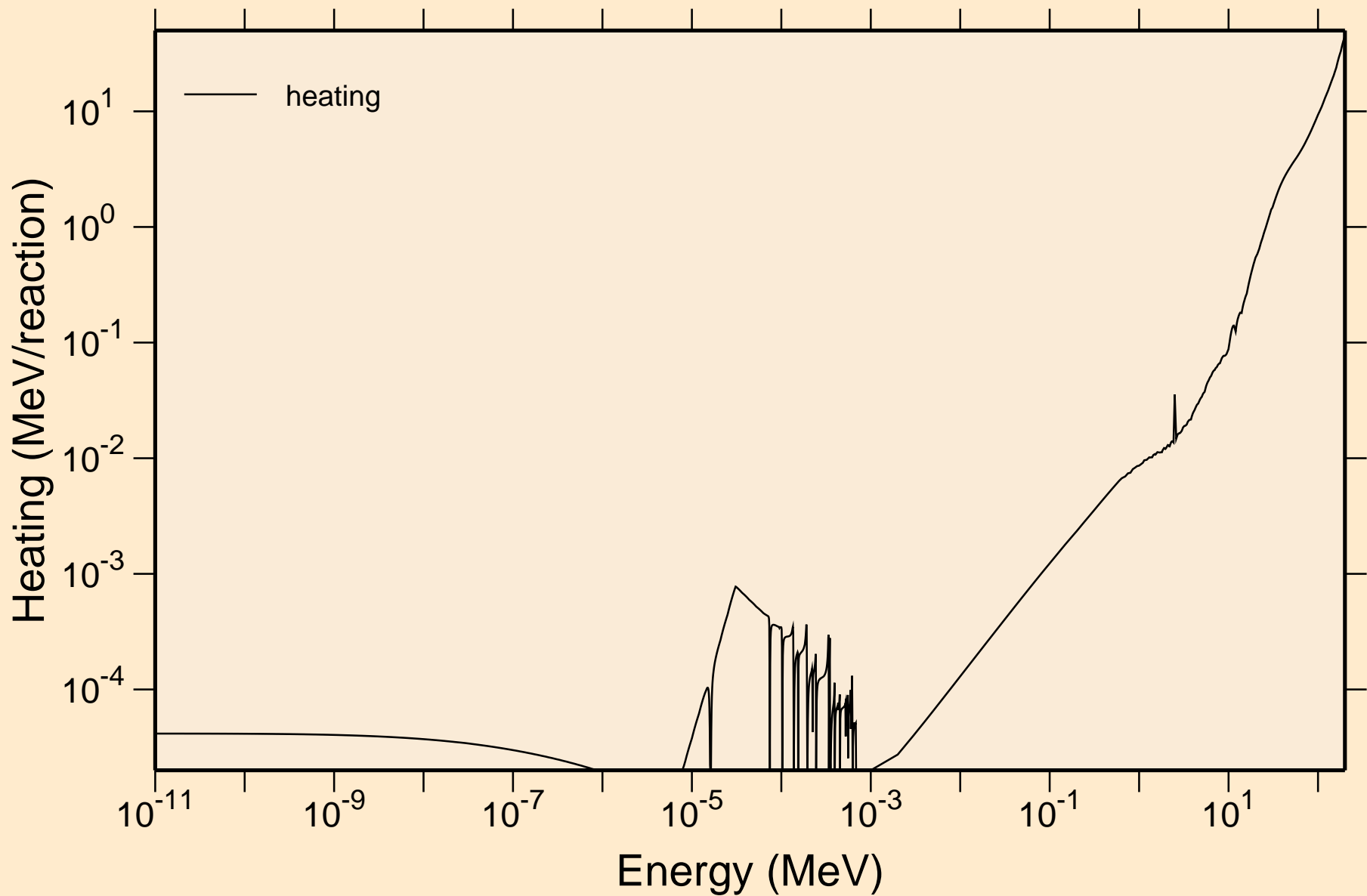
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

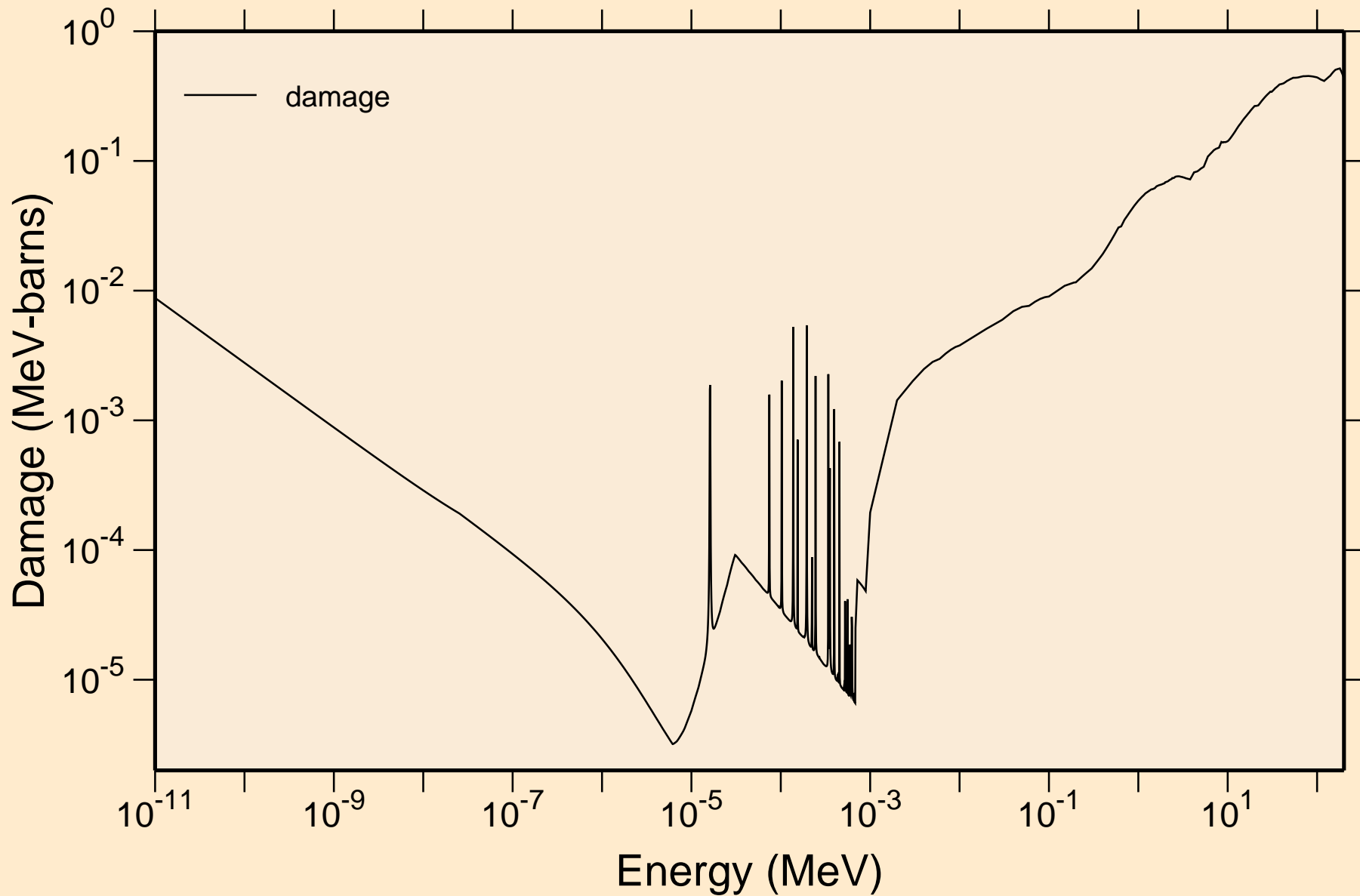


# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Heating

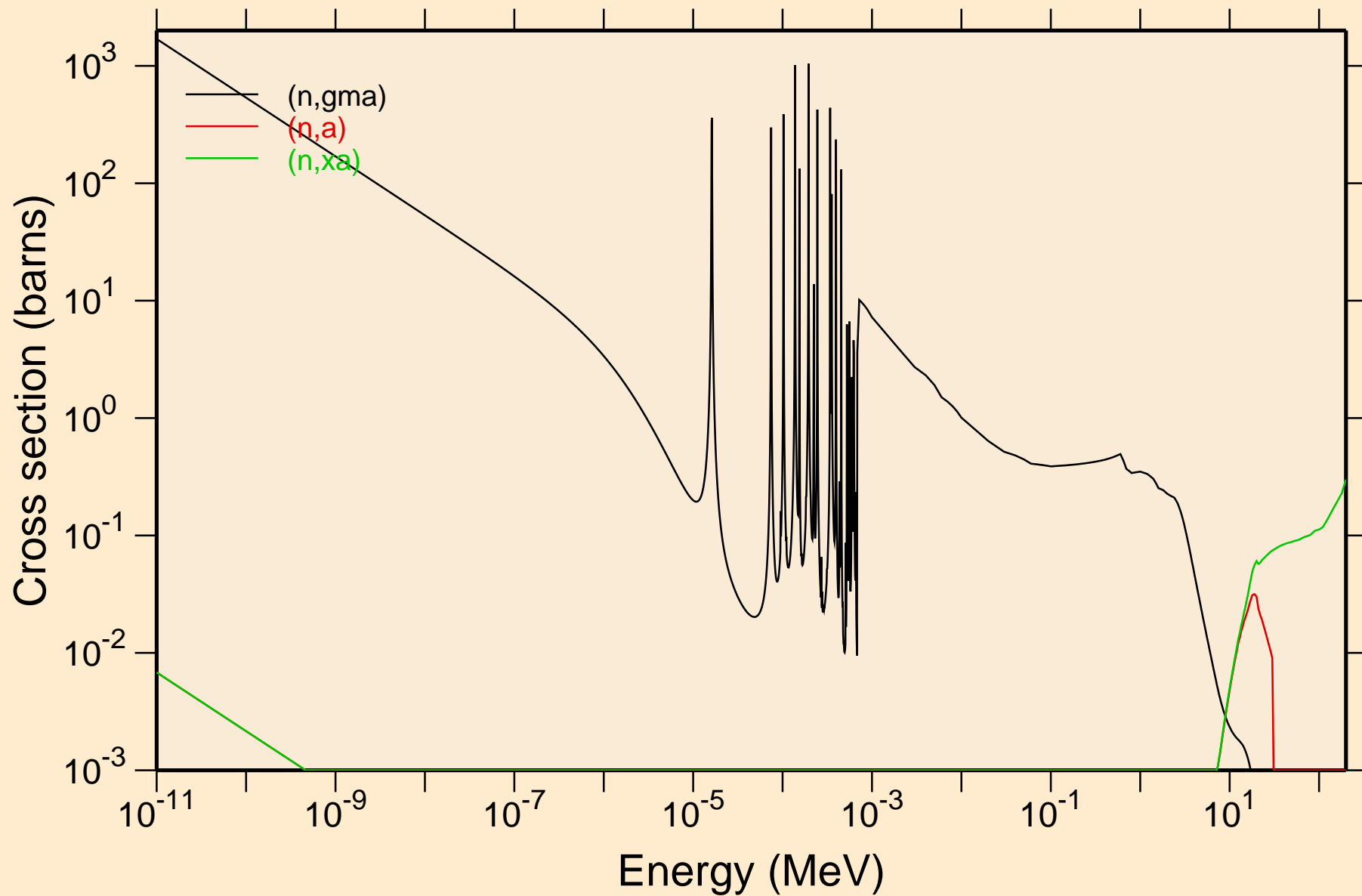




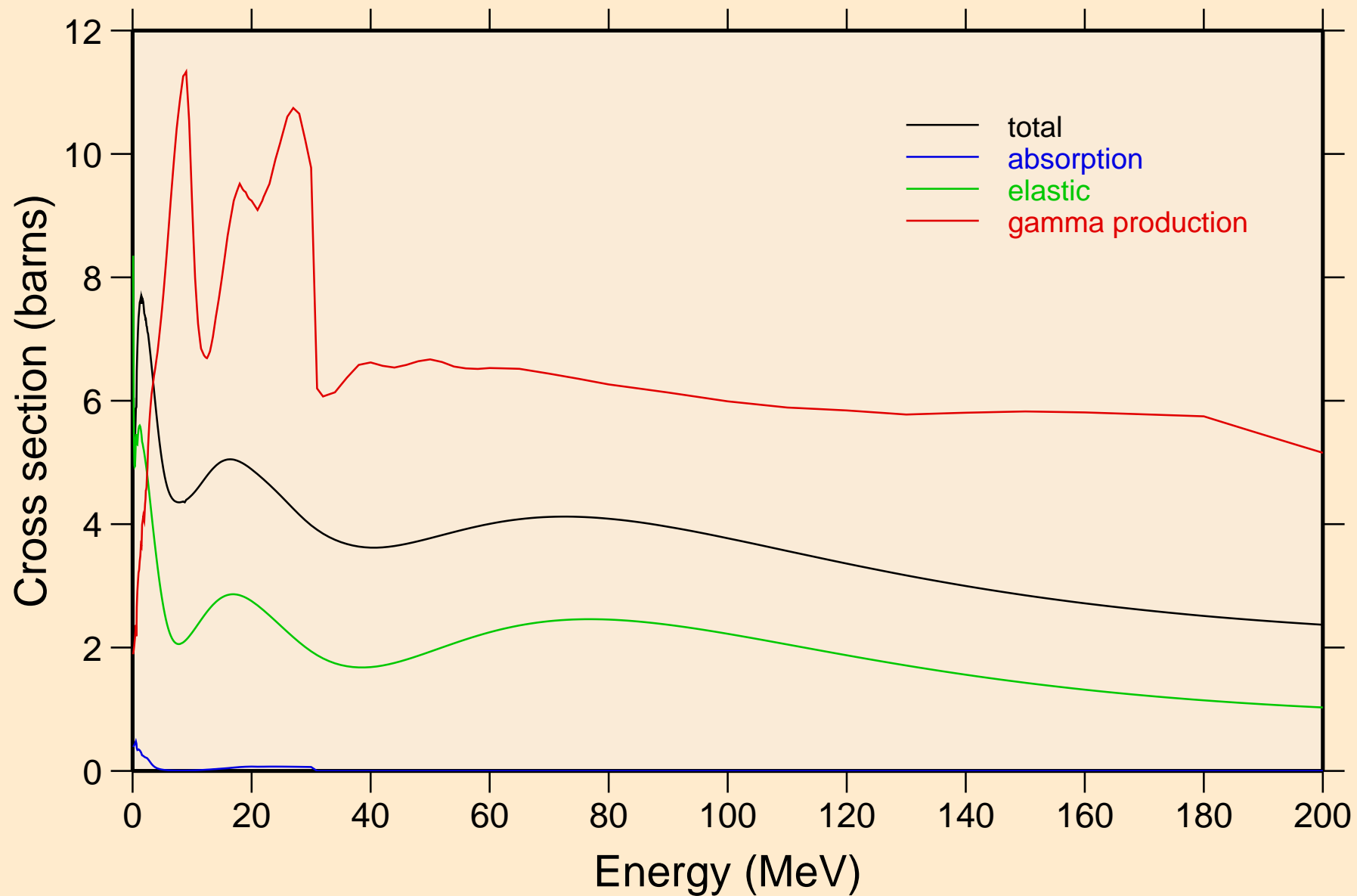
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



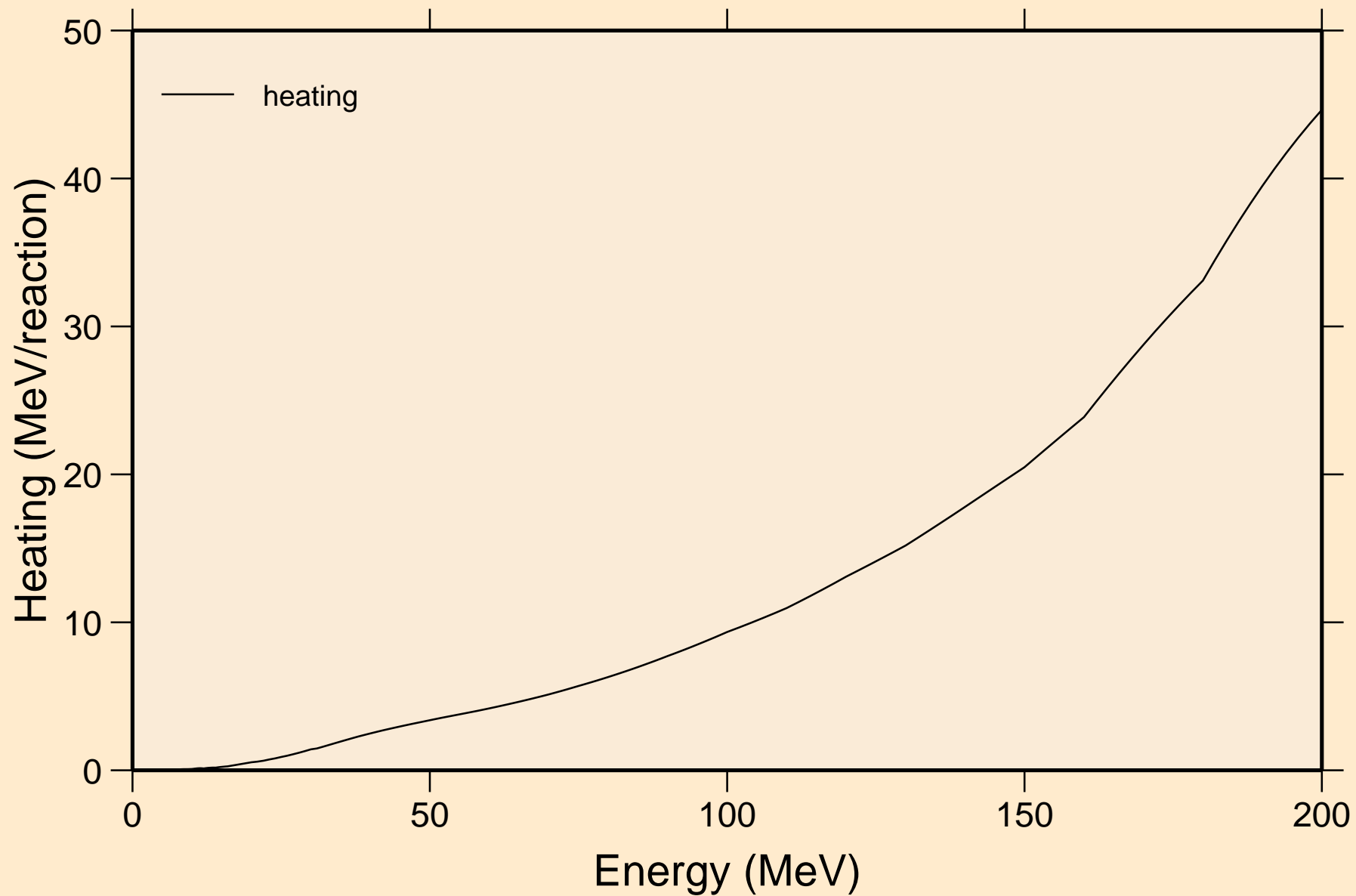
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



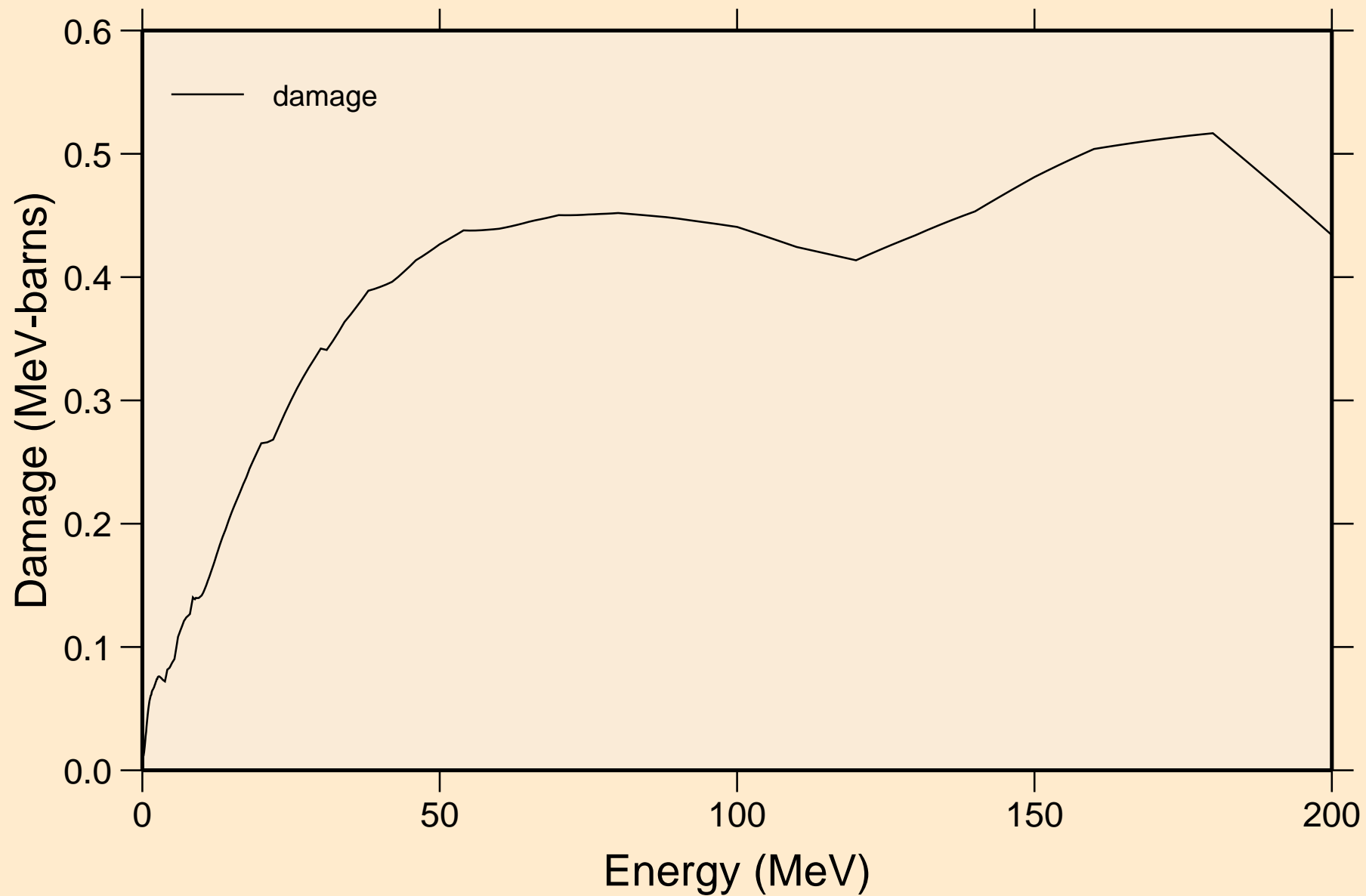
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



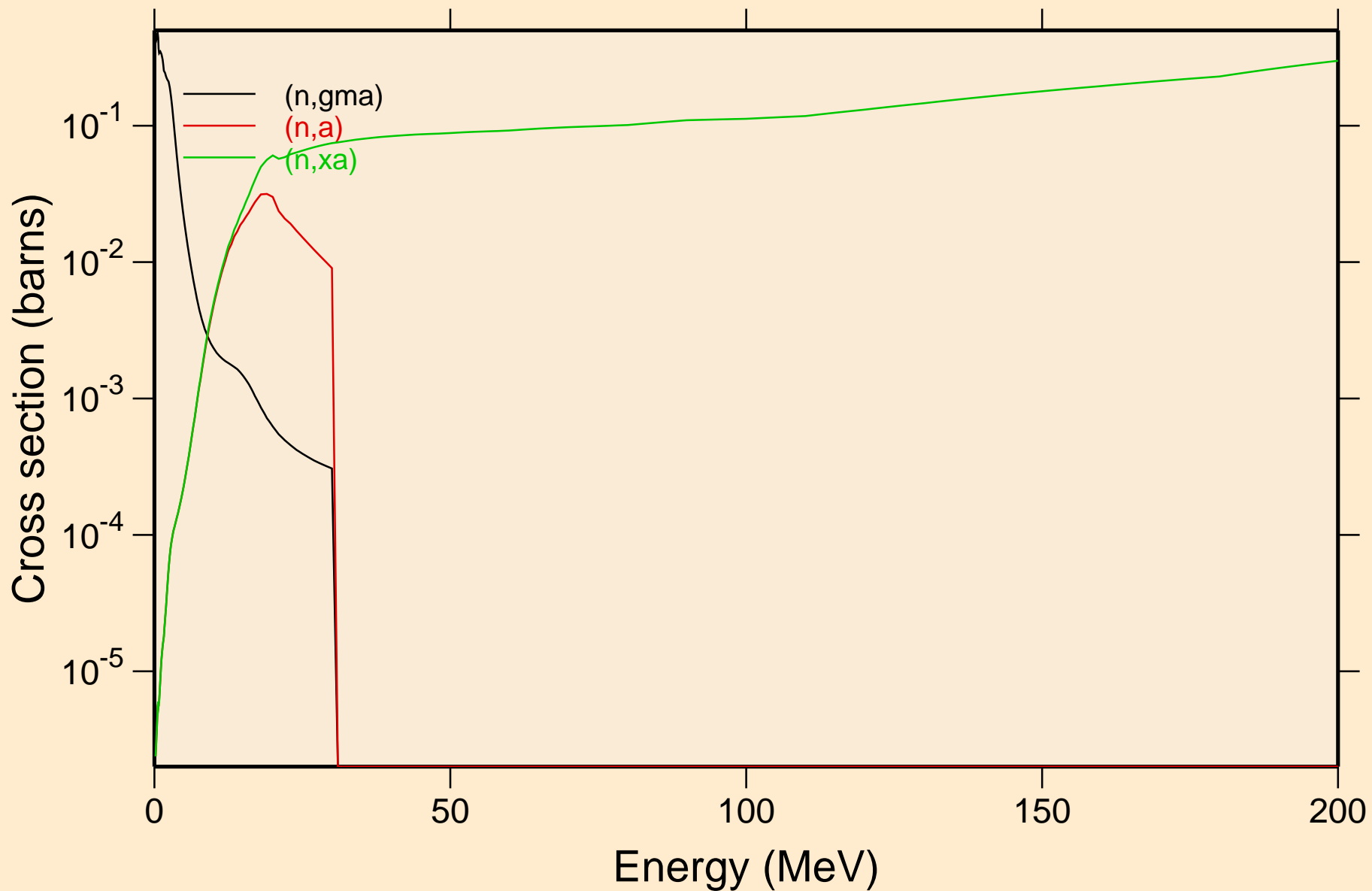
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



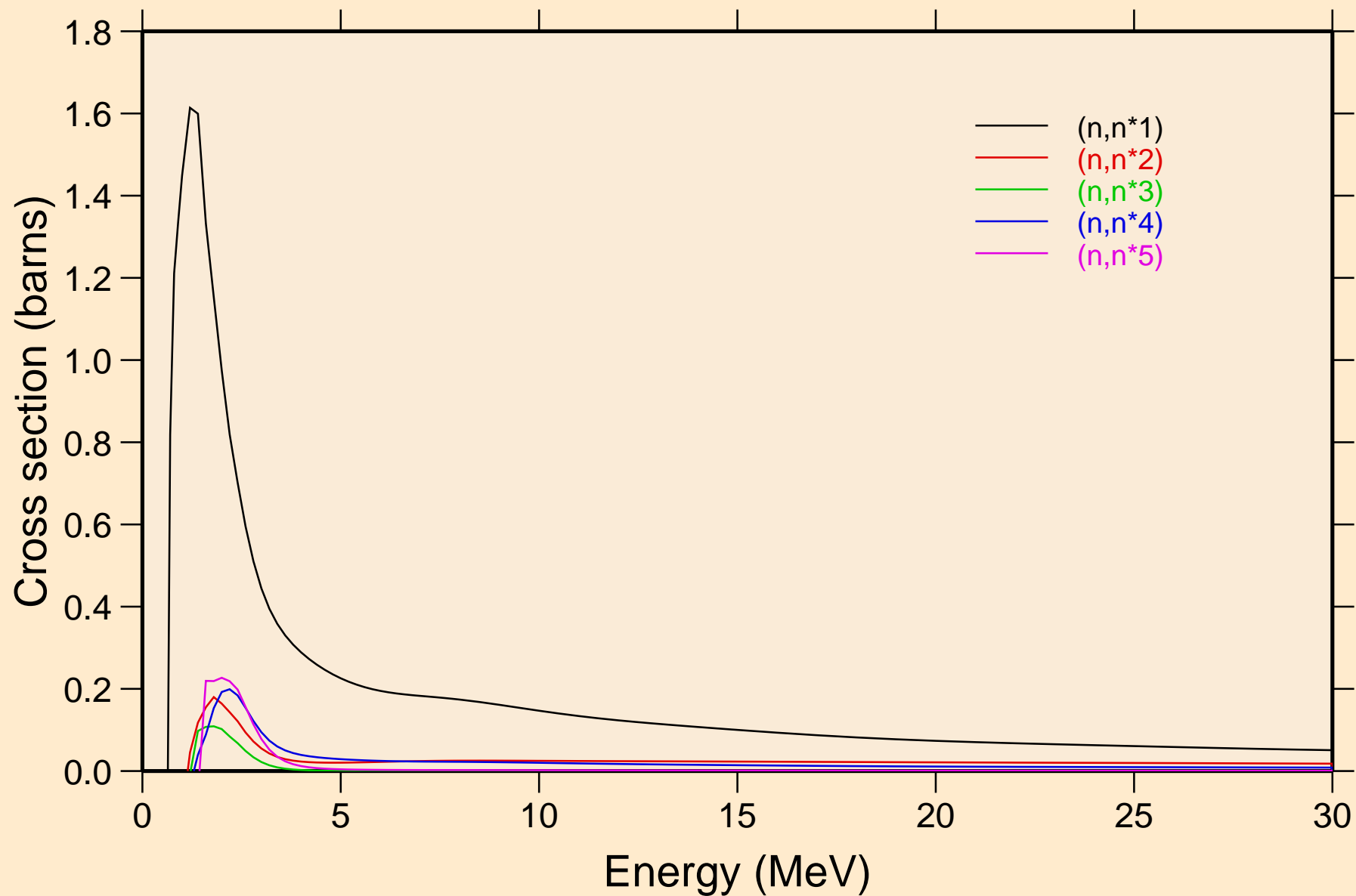
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



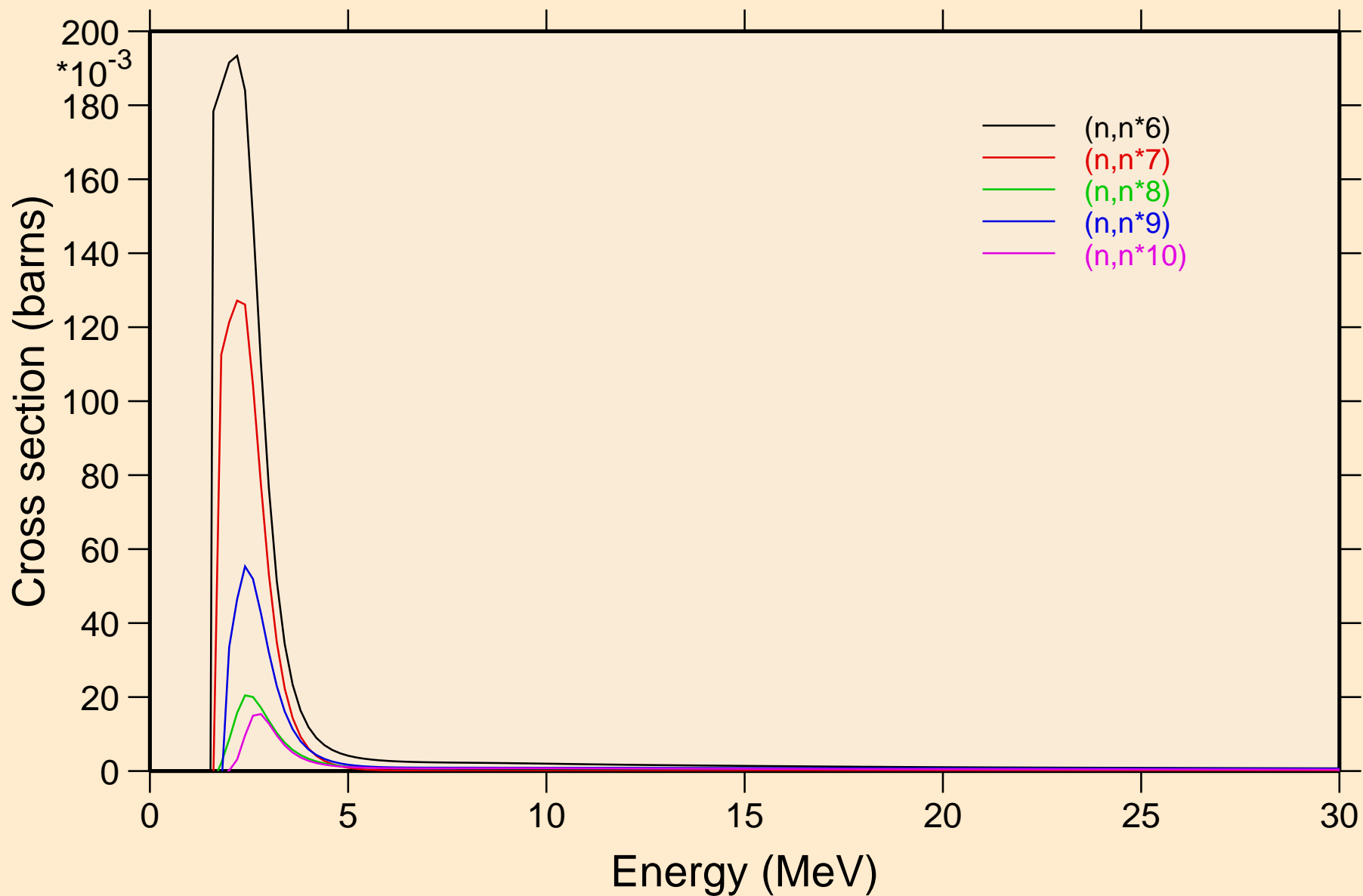
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

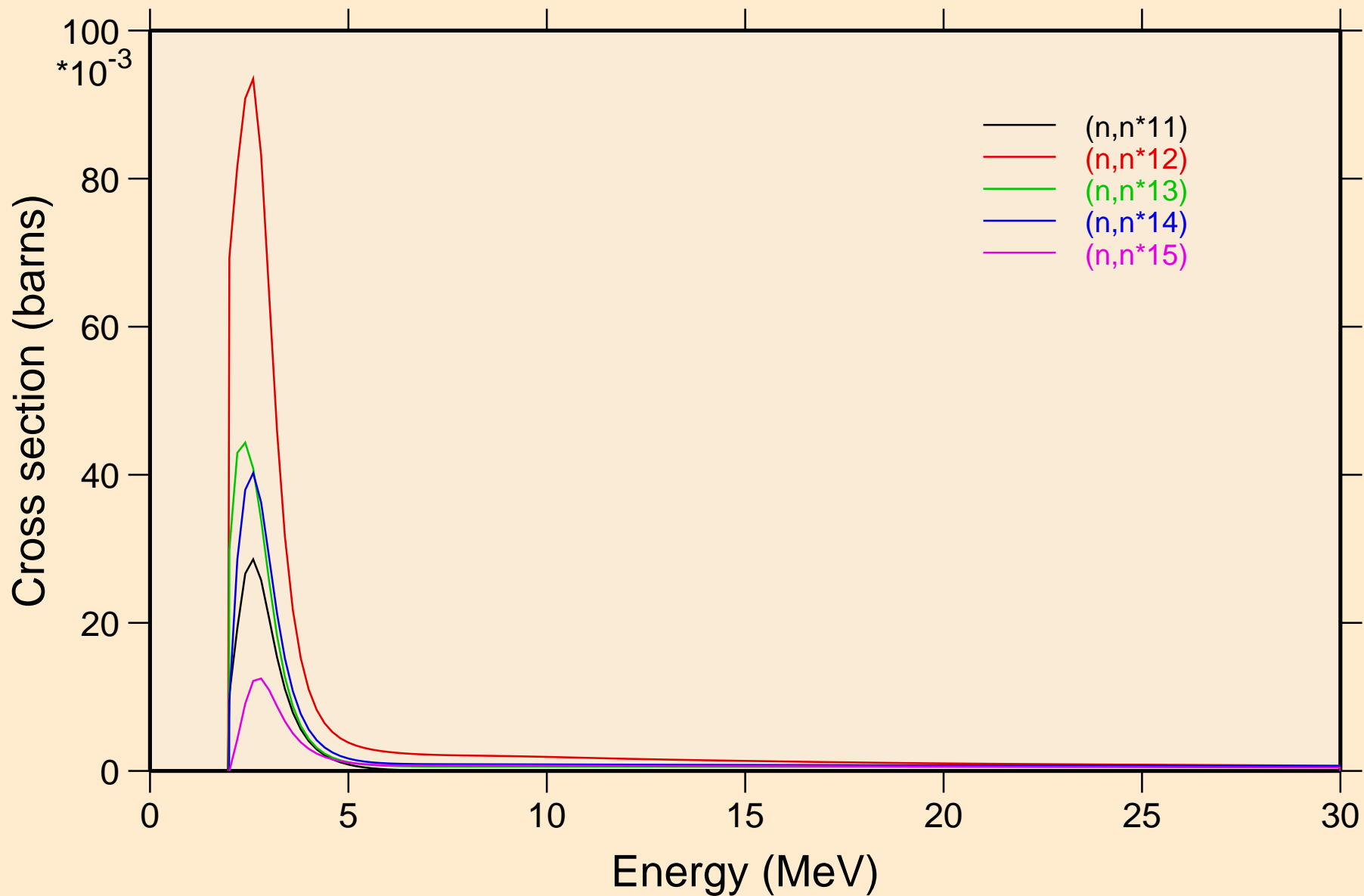


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

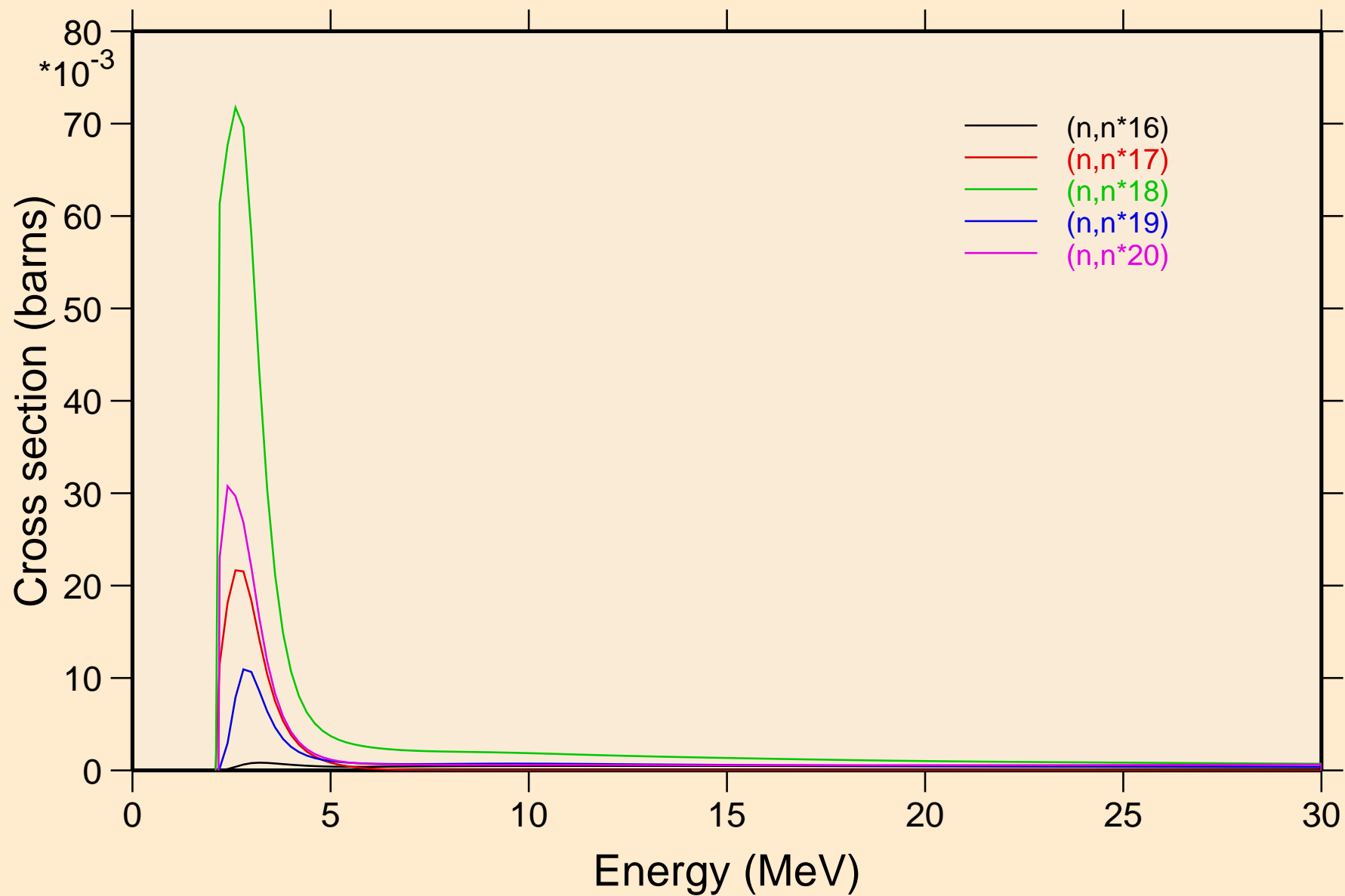




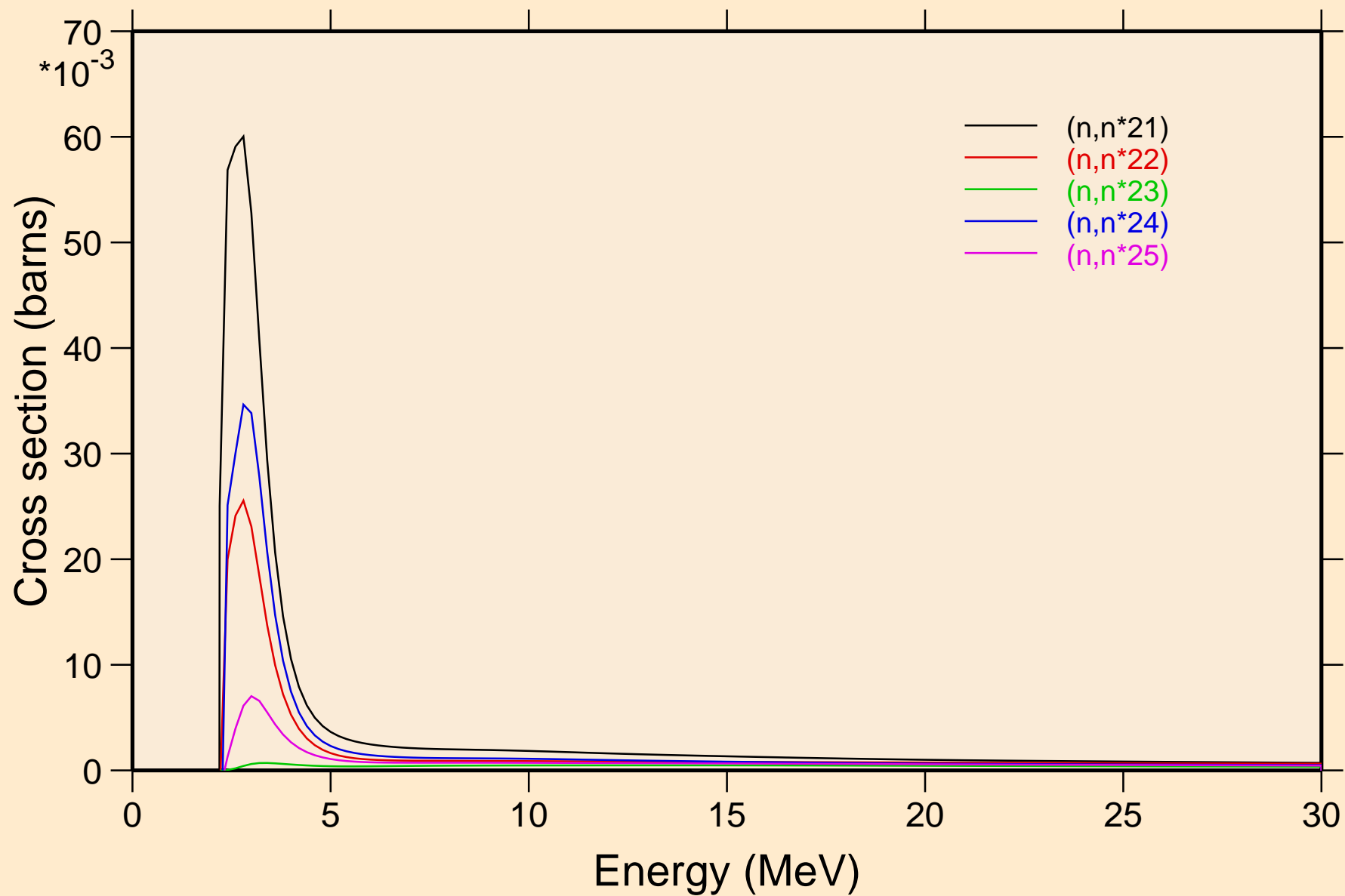
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



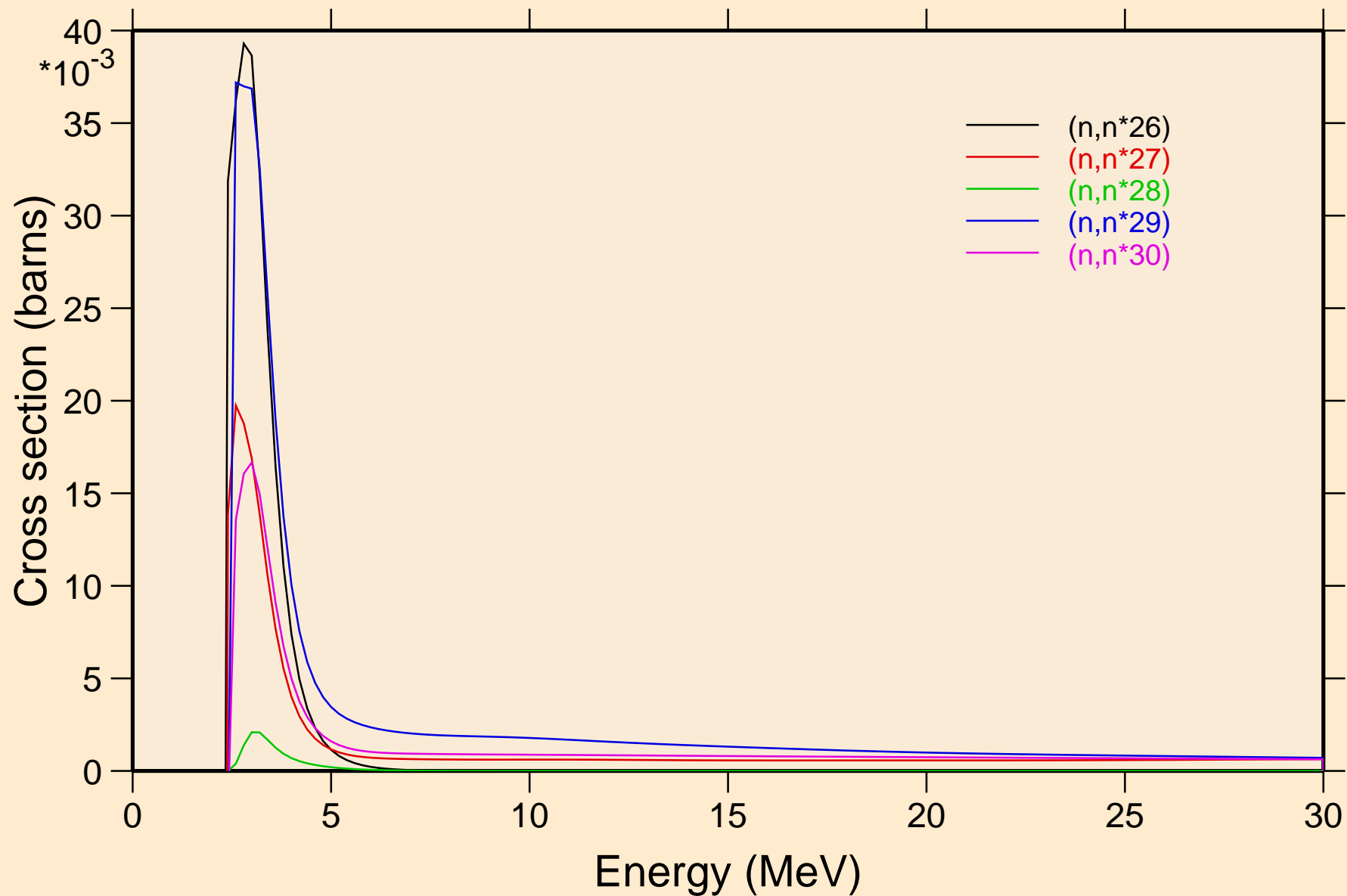
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

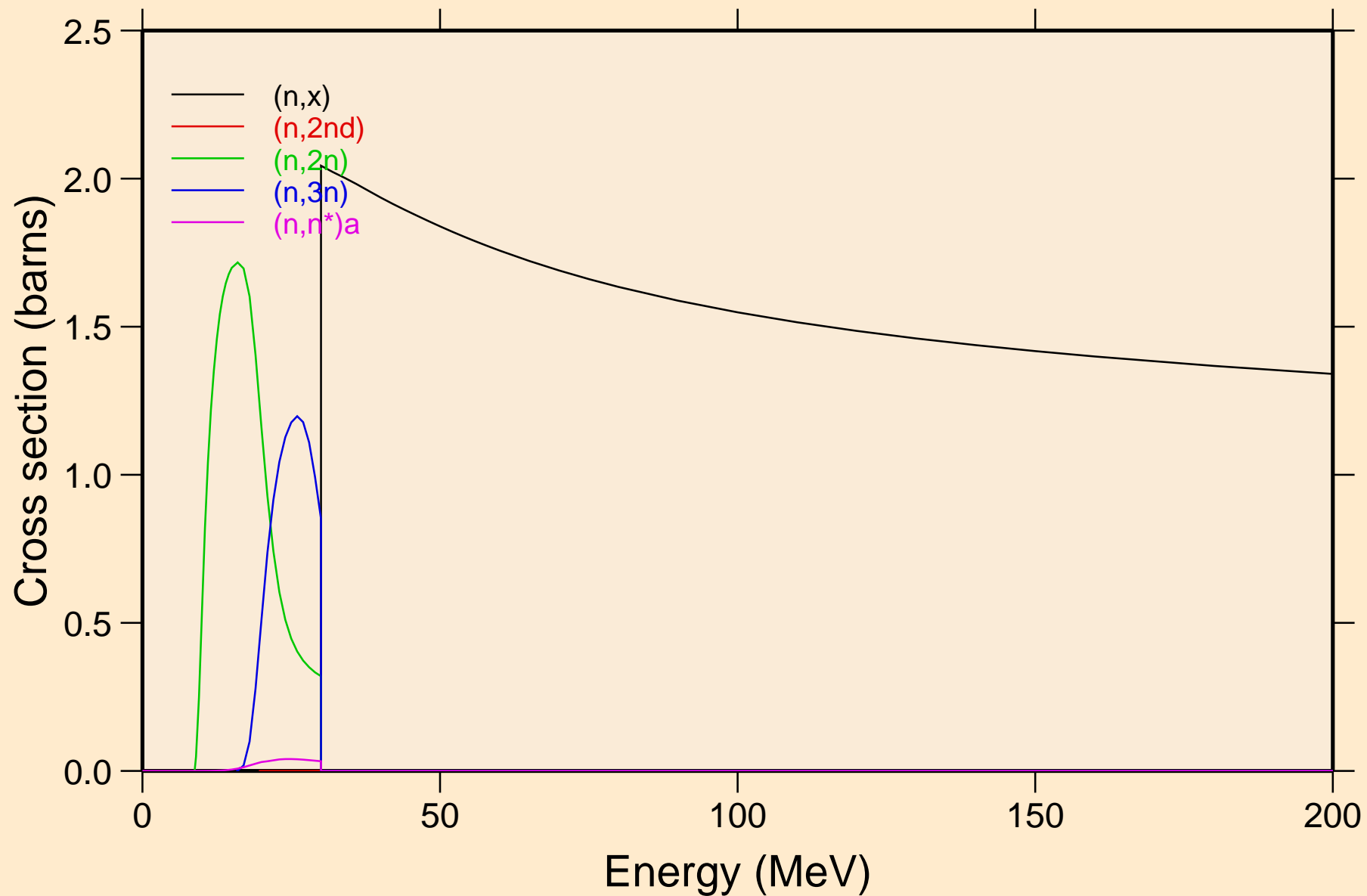


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



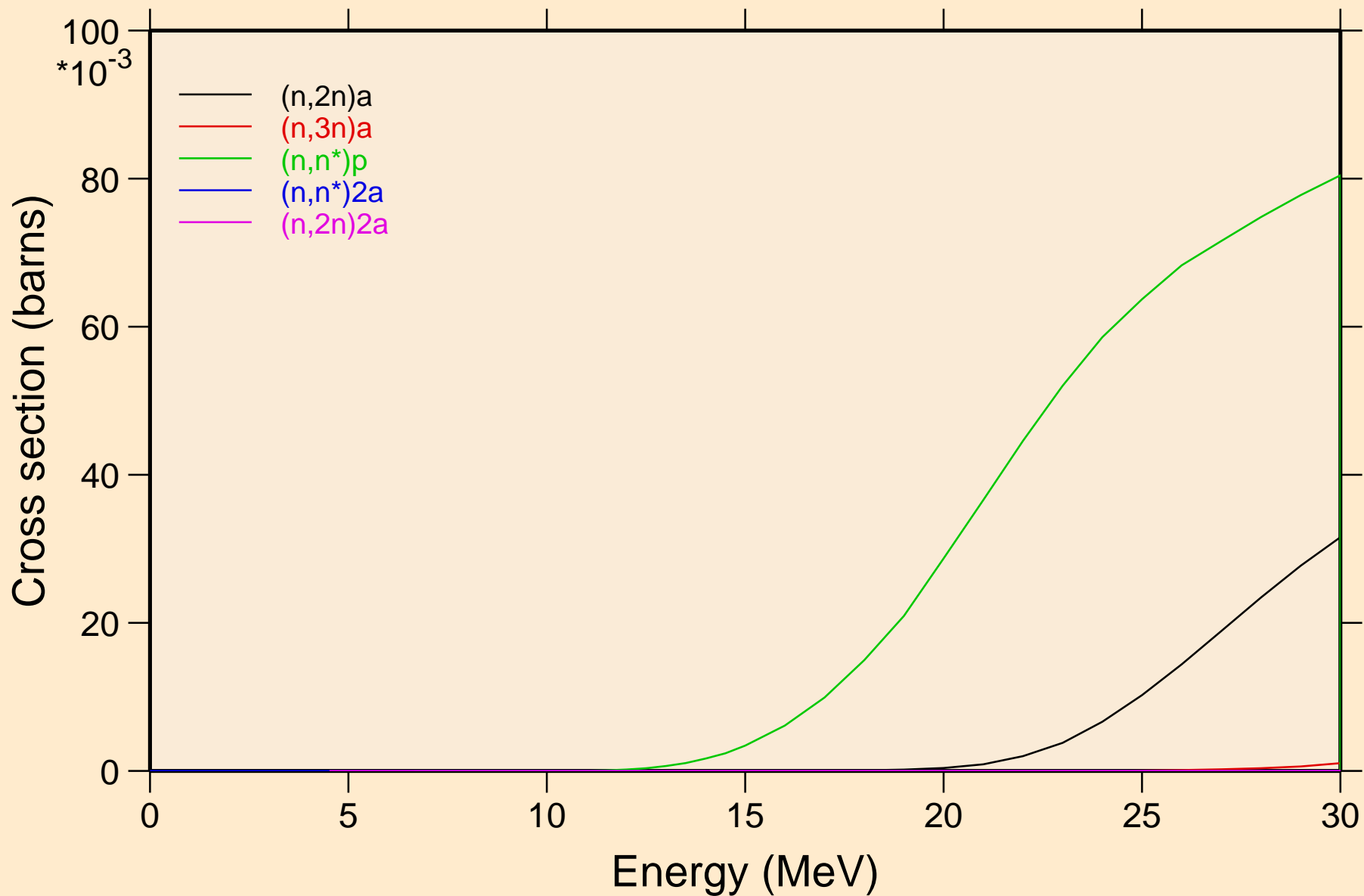
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



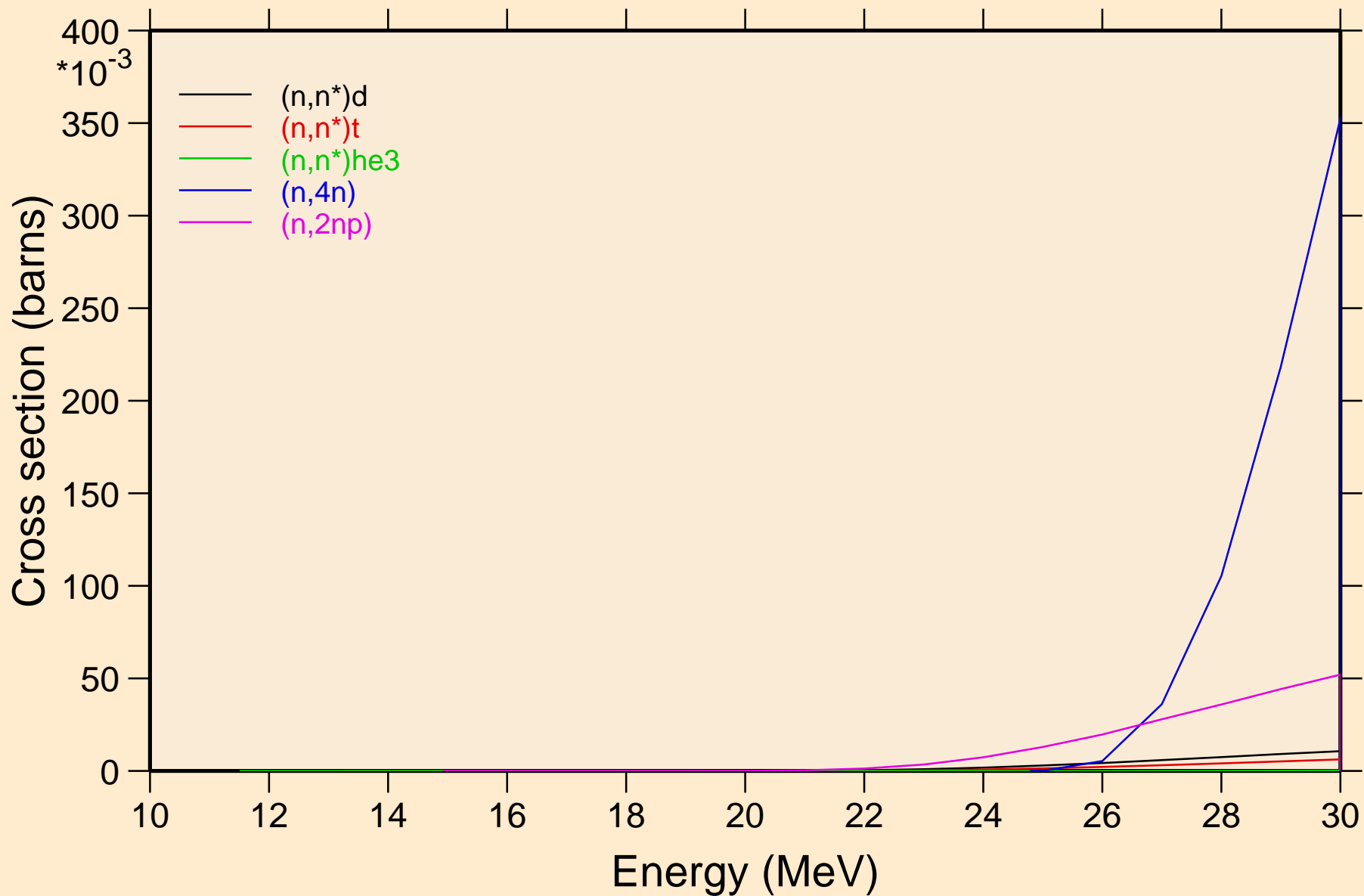
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



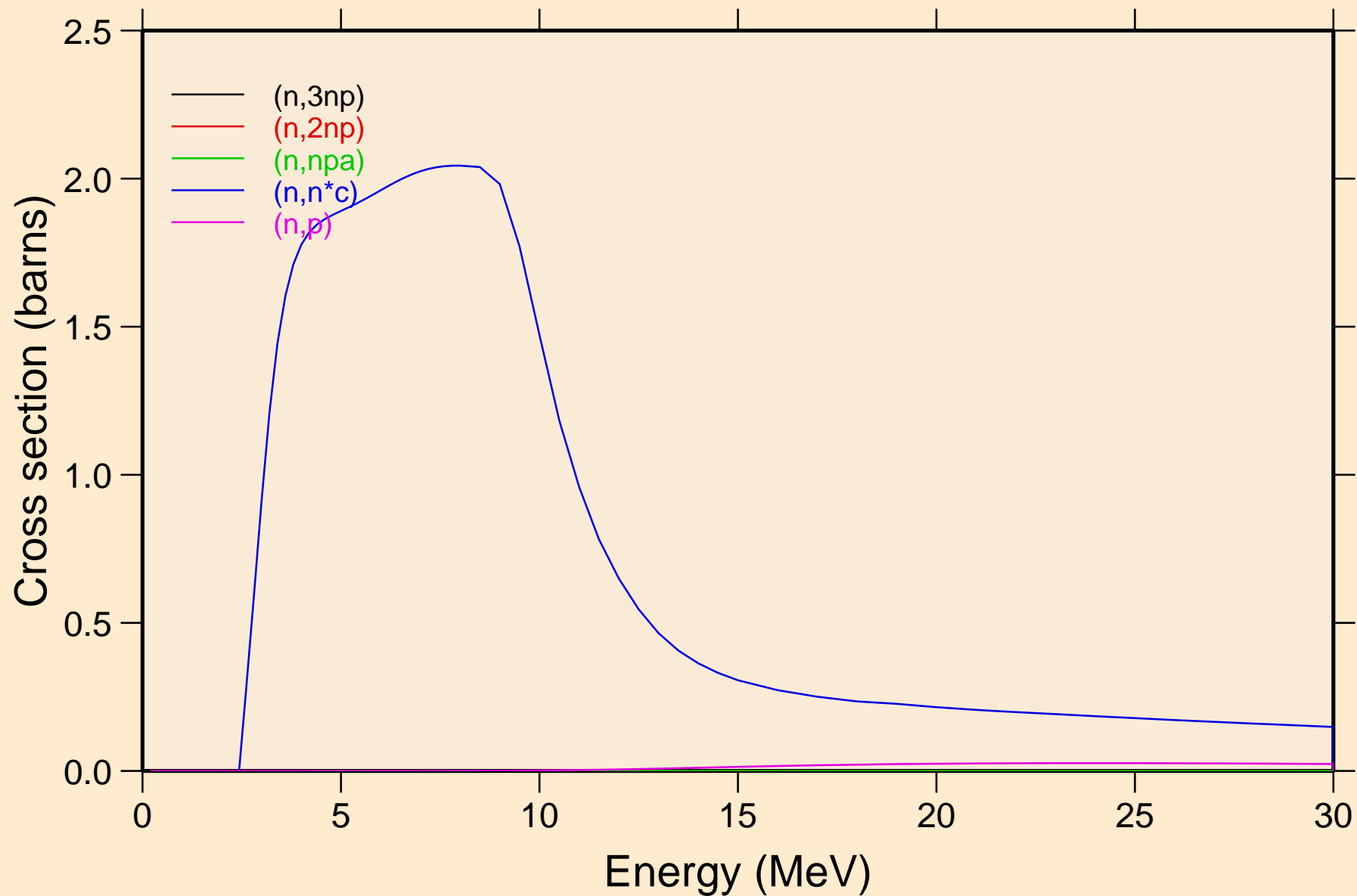
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



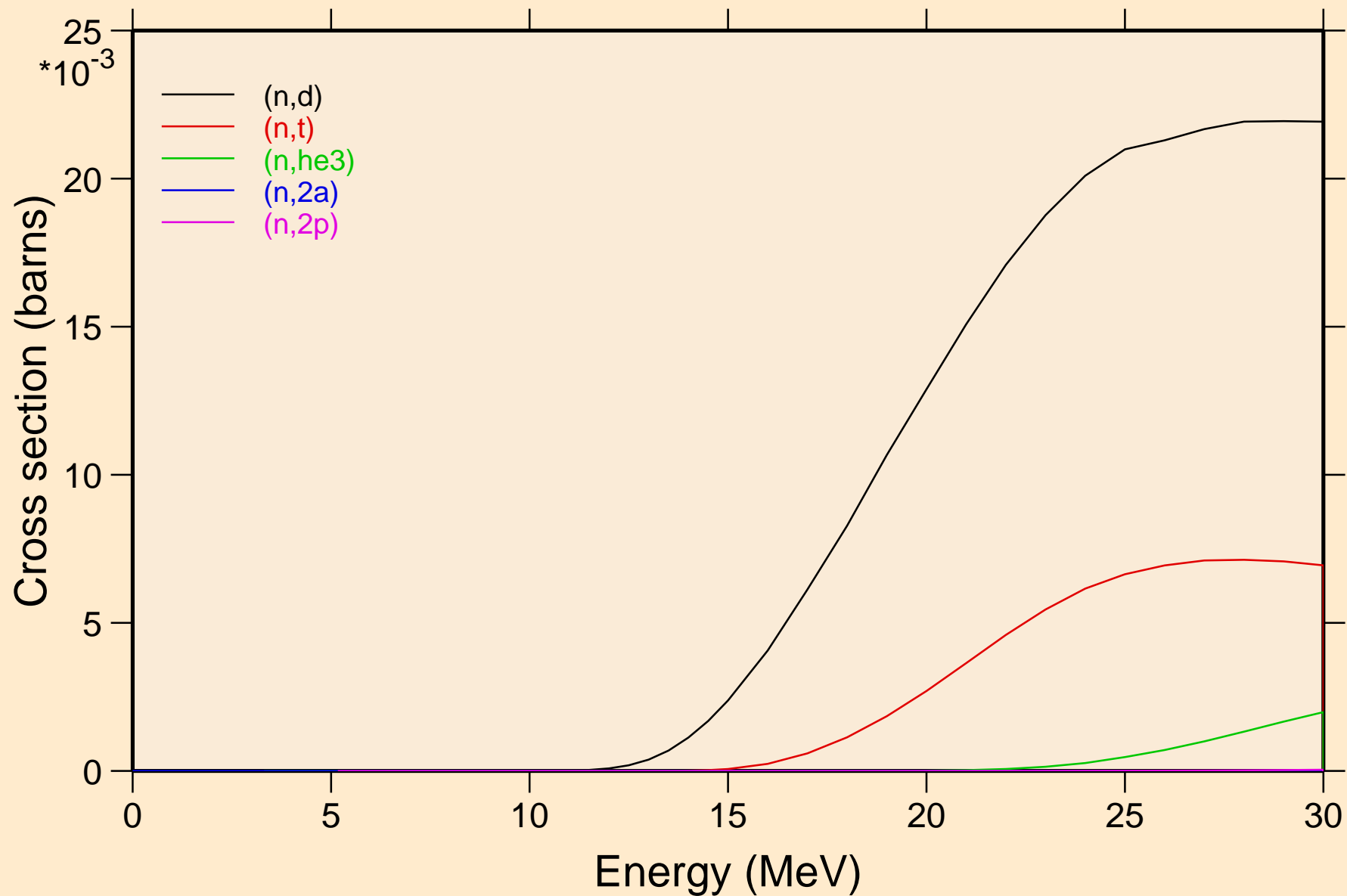
# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

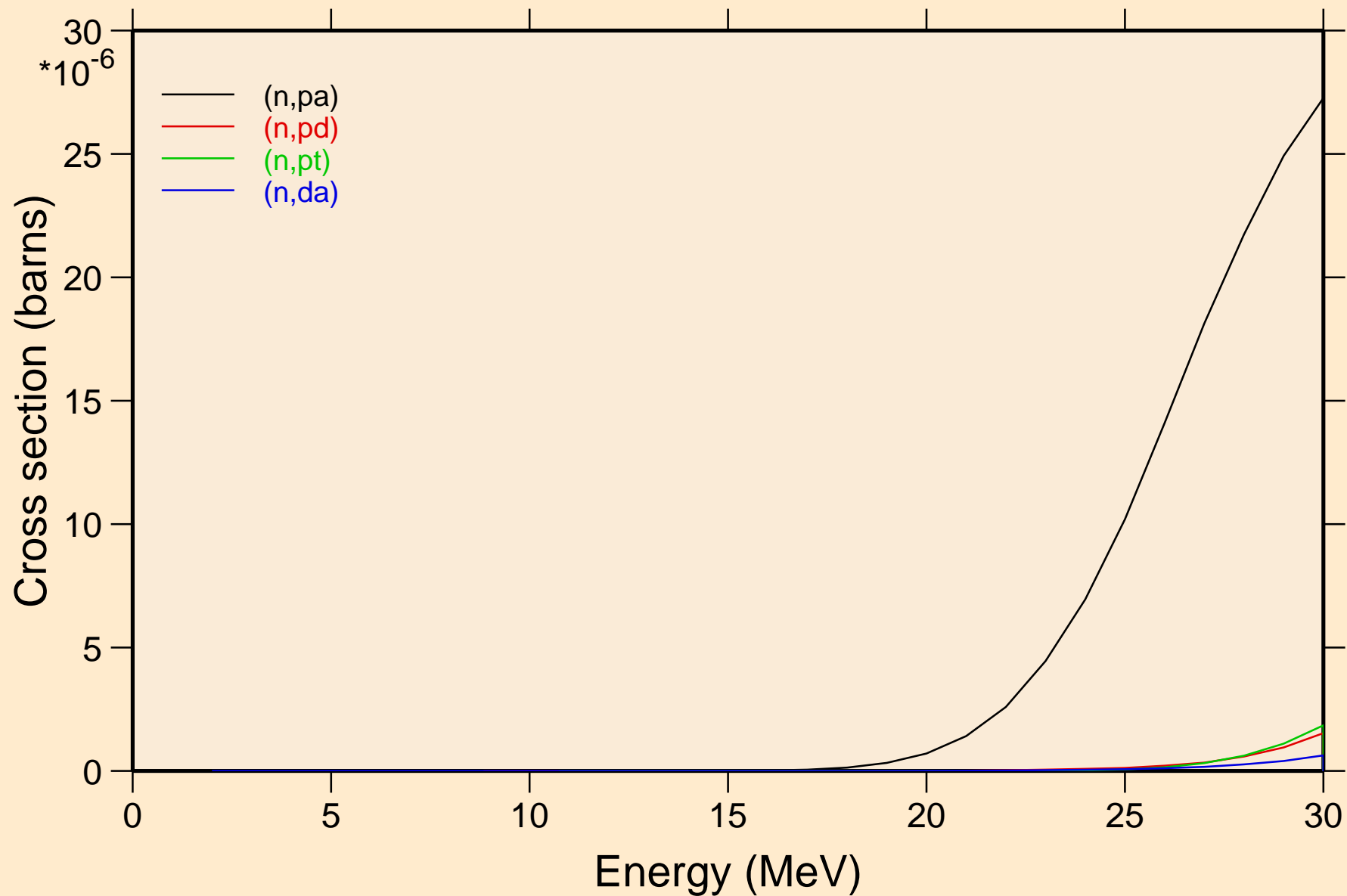




GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

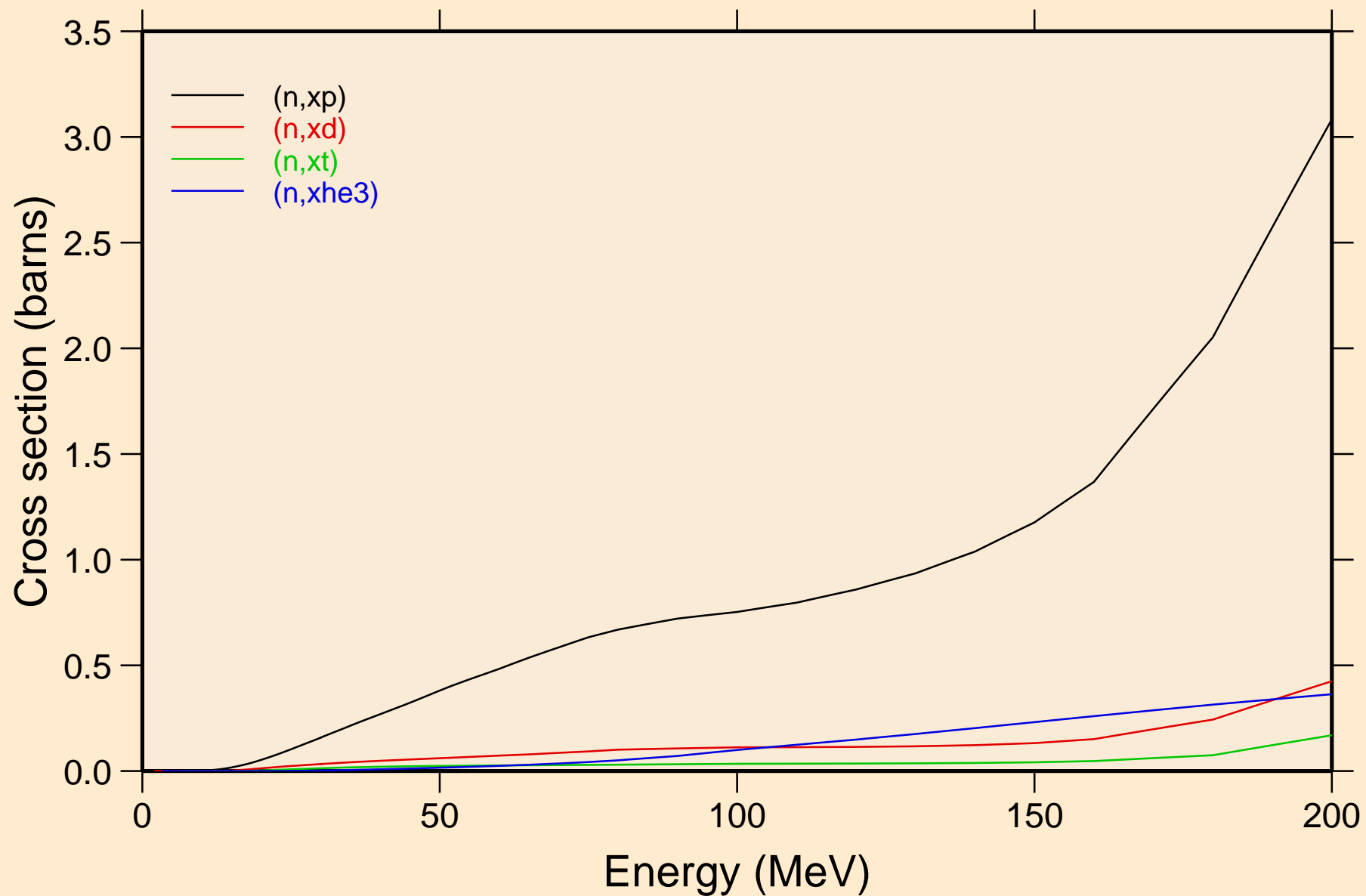


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

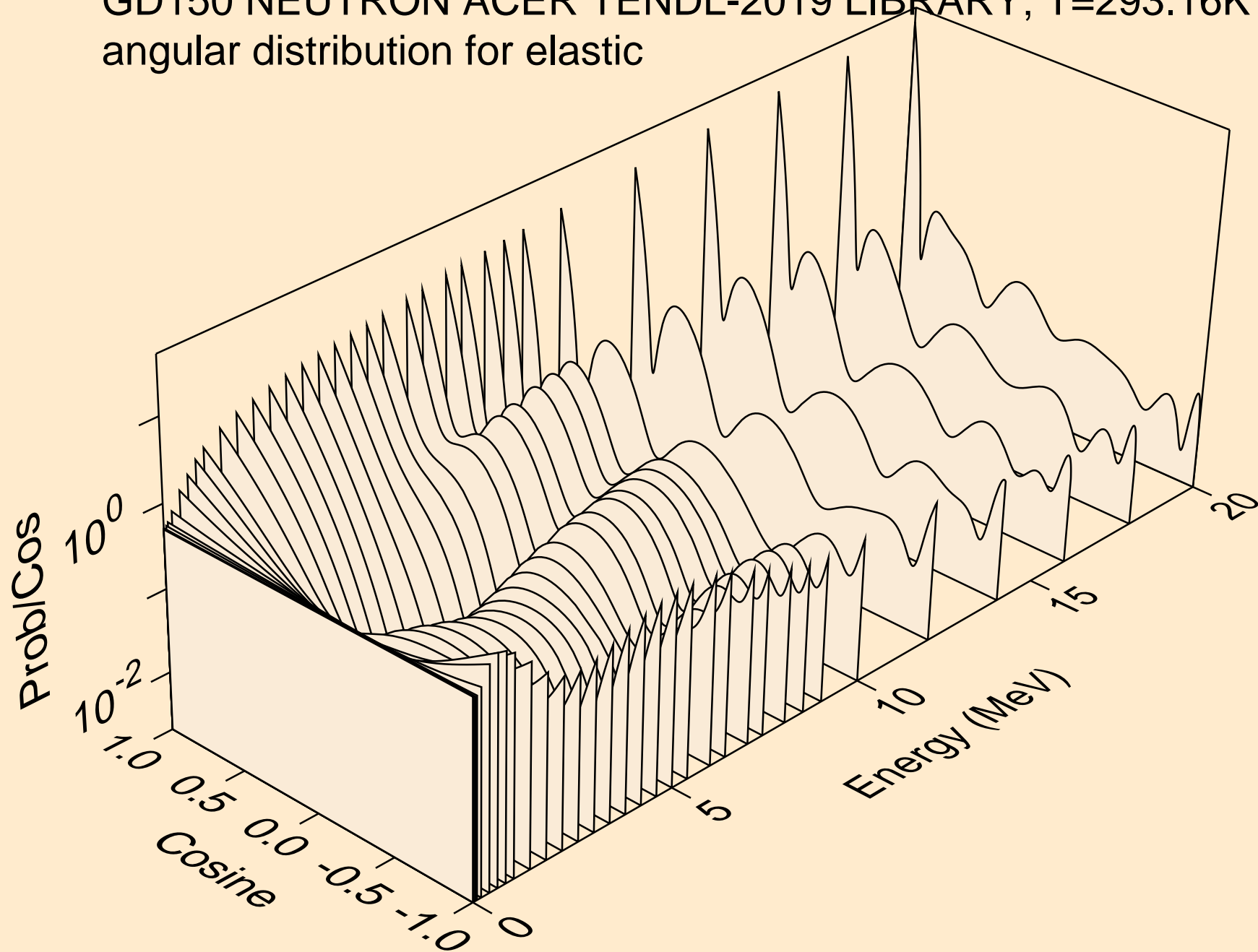


# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

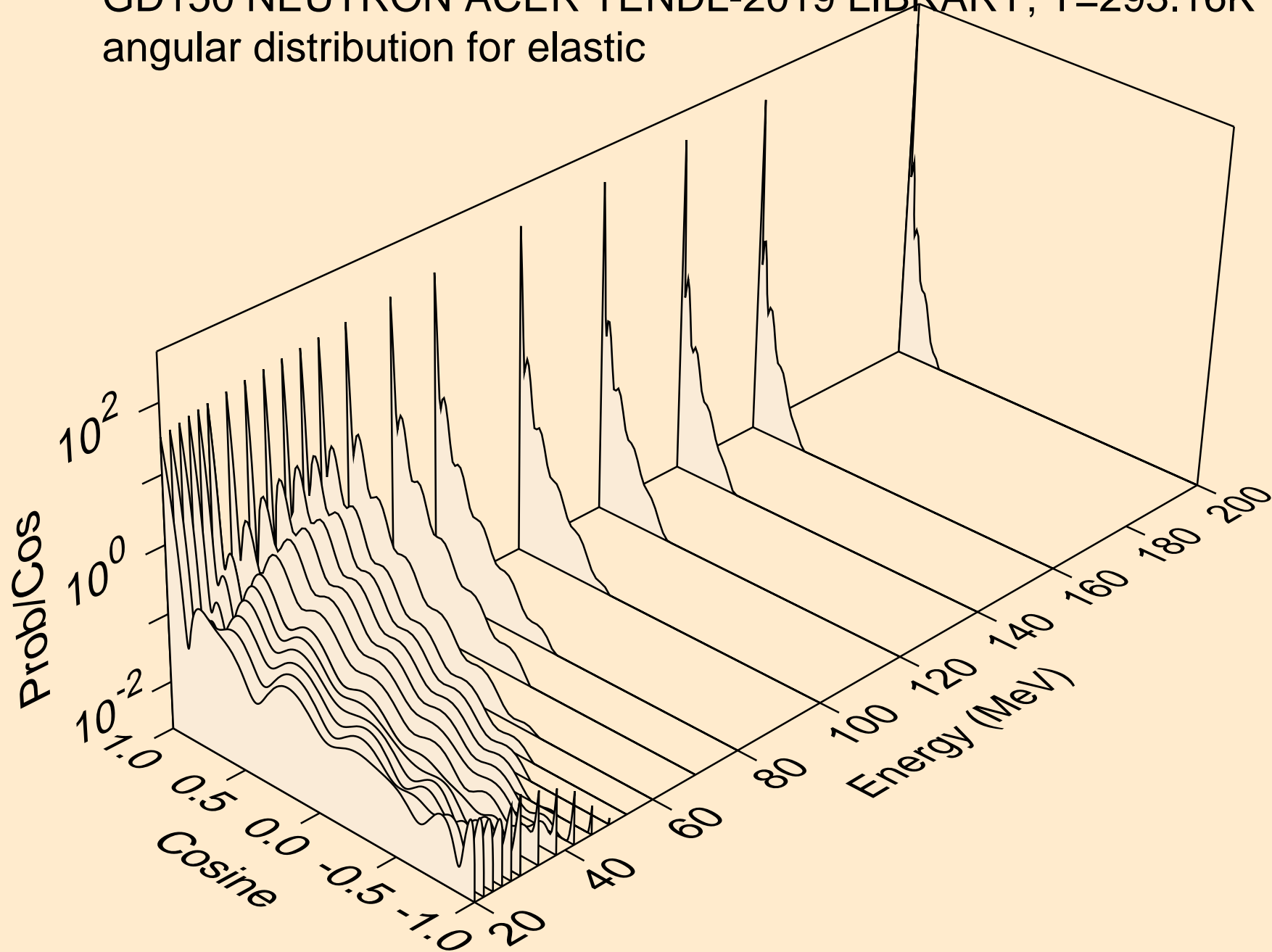
## Threshold reactions



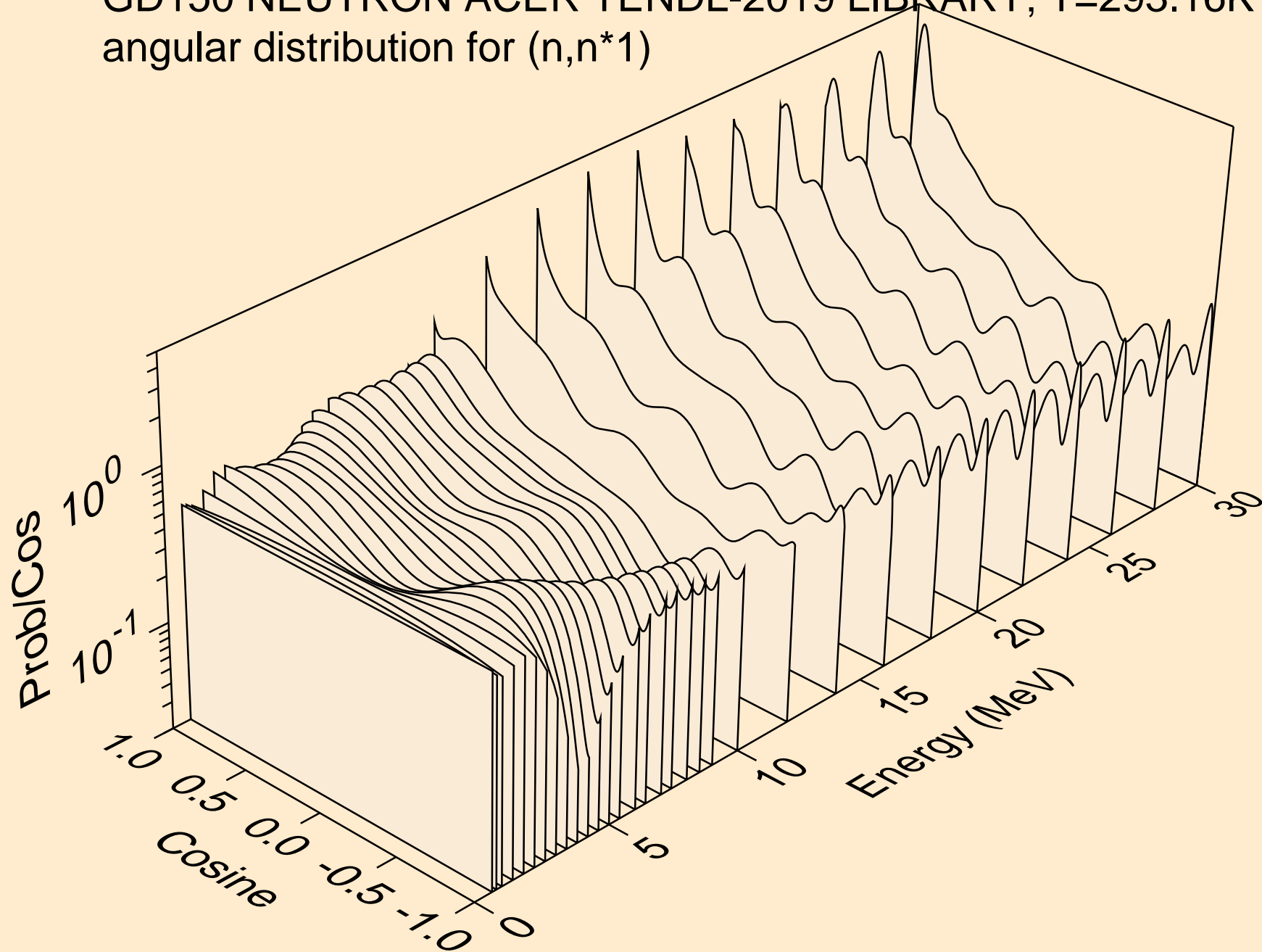
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



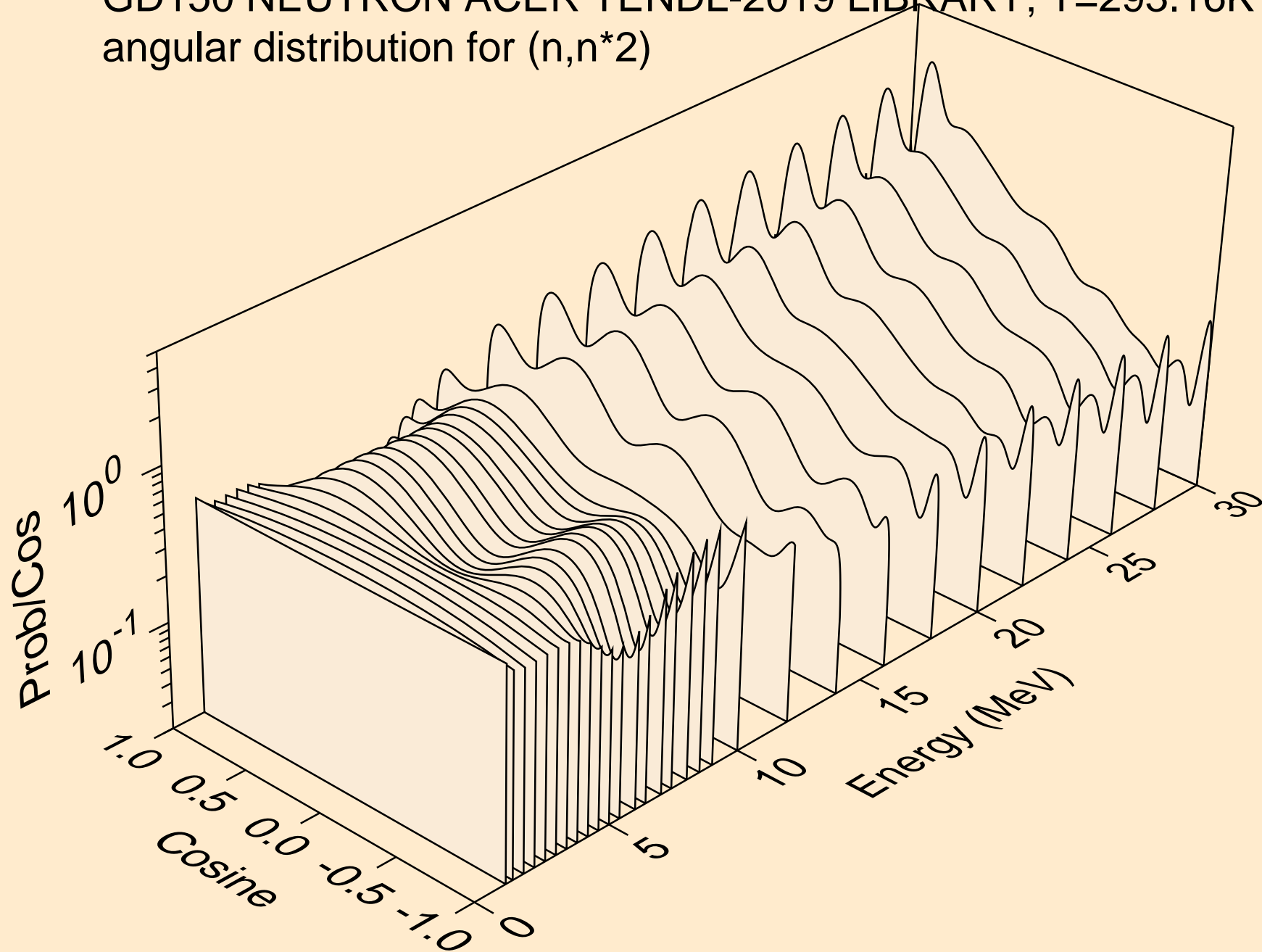
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angular distribution for elastic



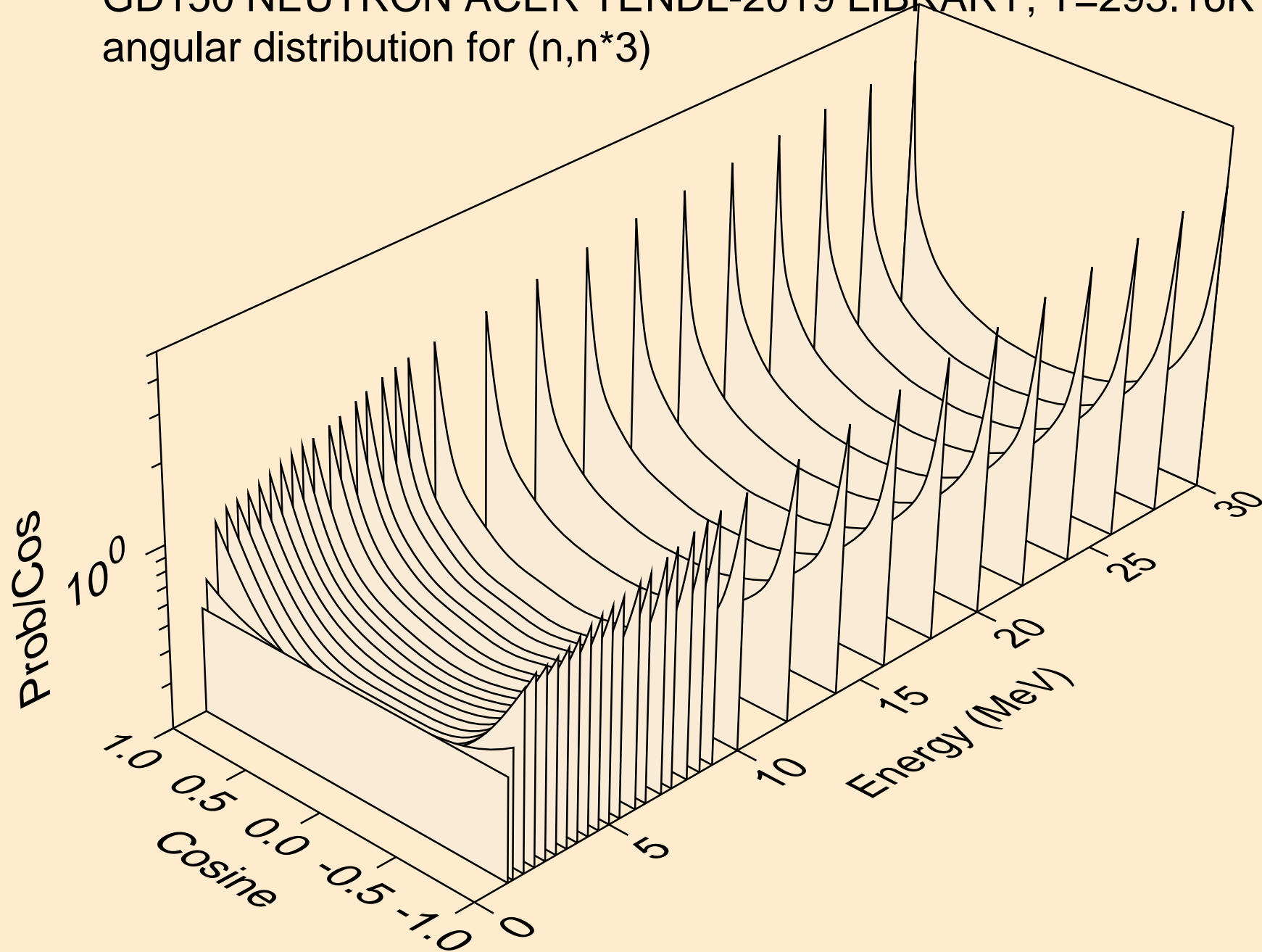
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

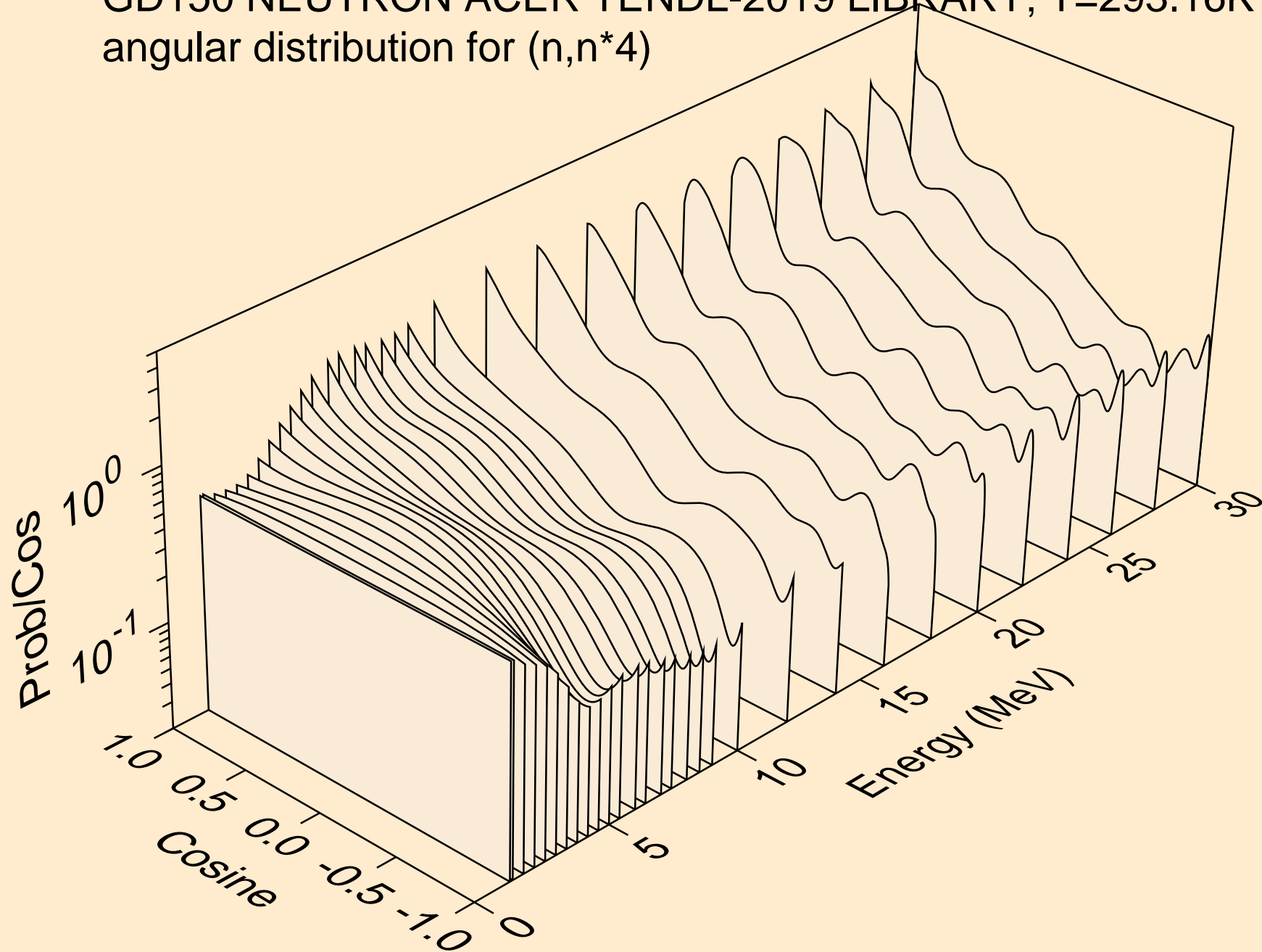


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)

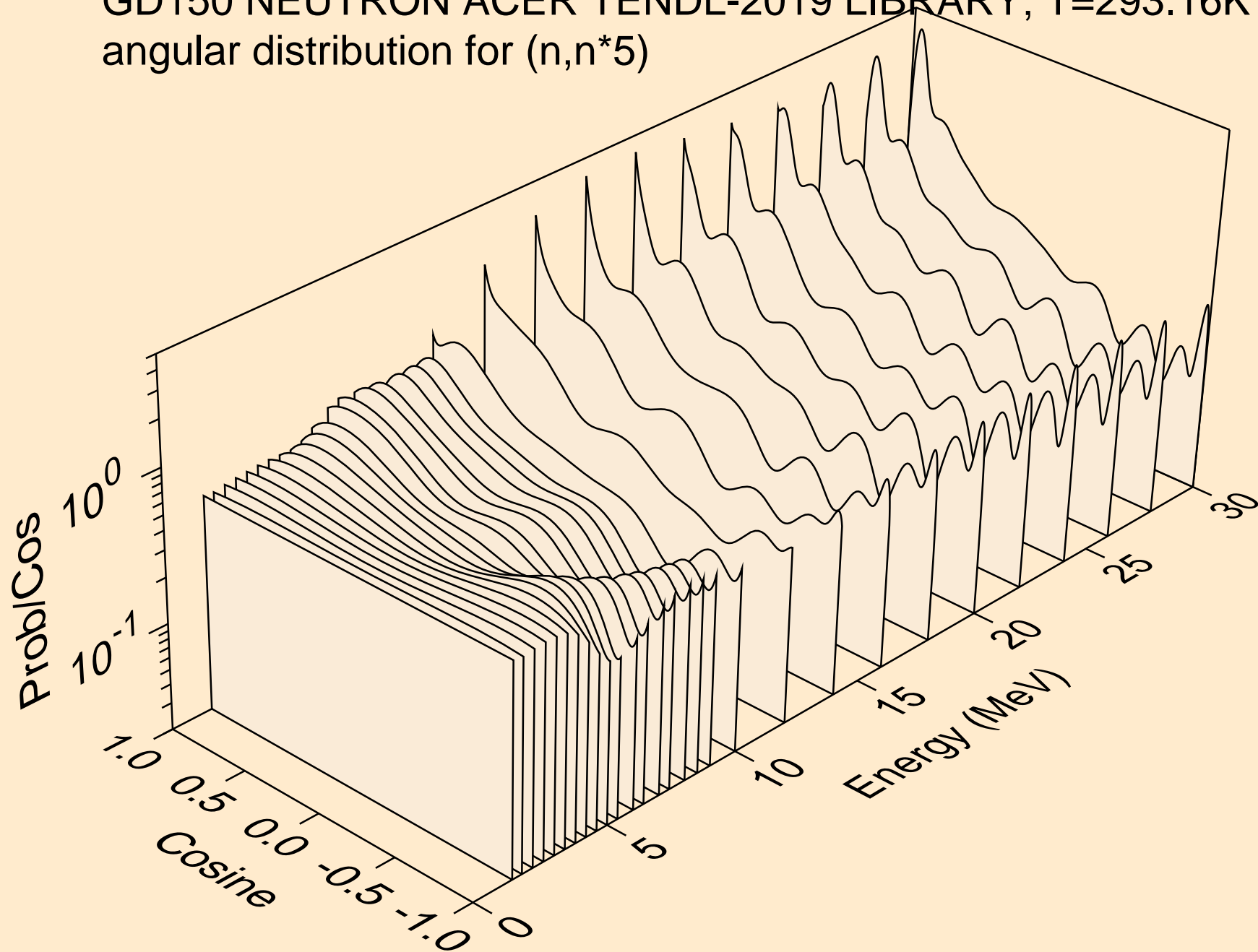




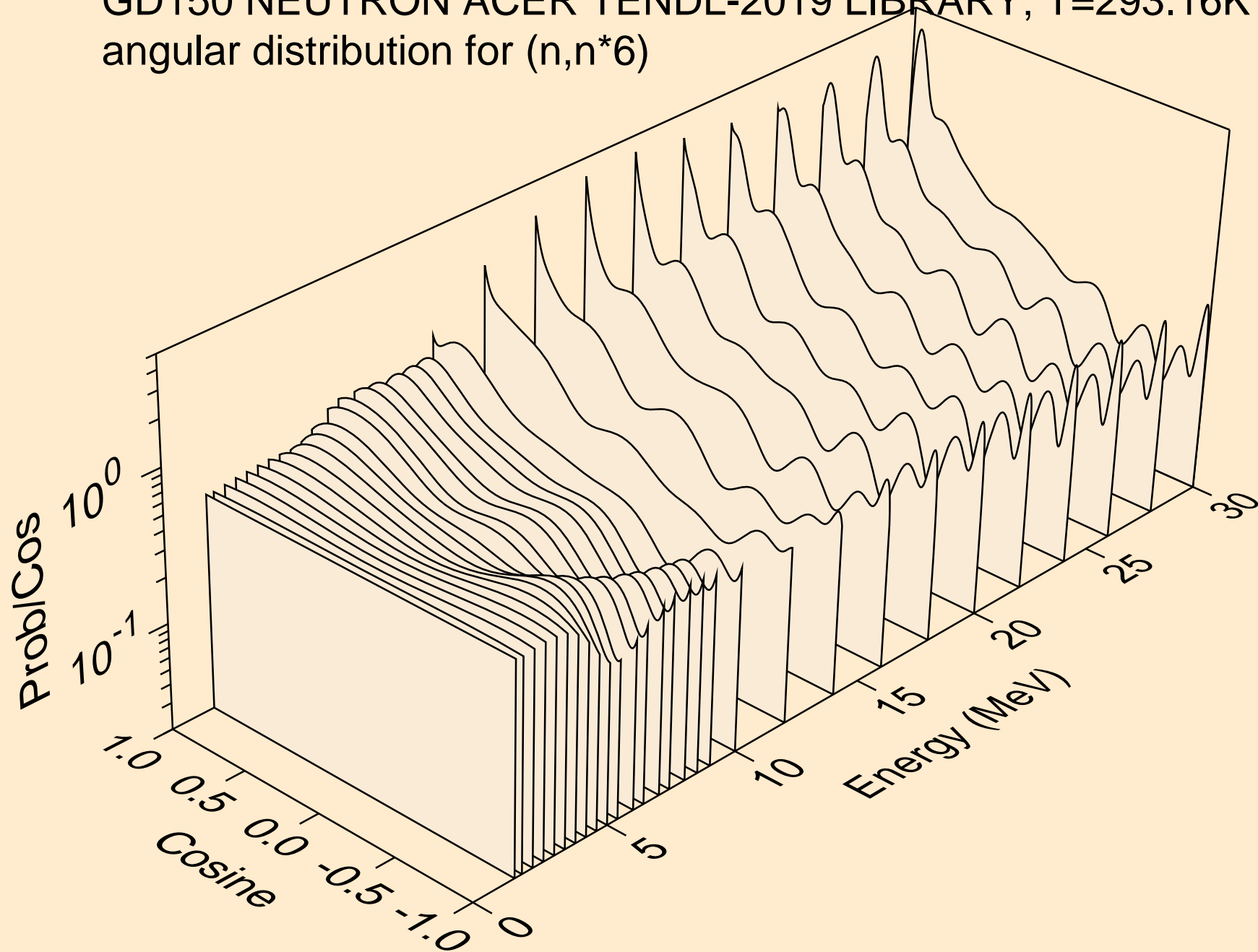
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angular distribution for (n,n\*4)



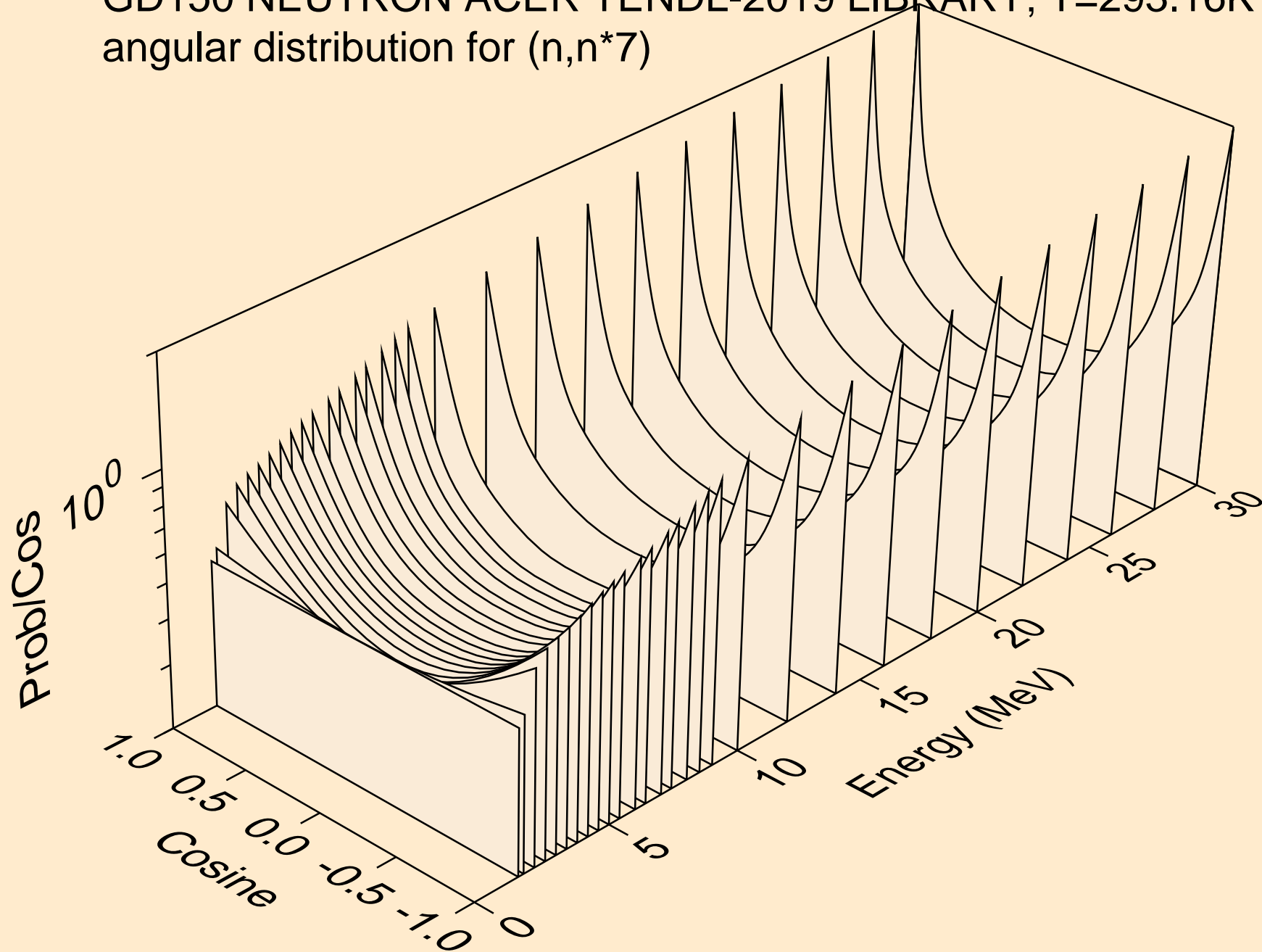
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angular distribution for (n,n\*5)



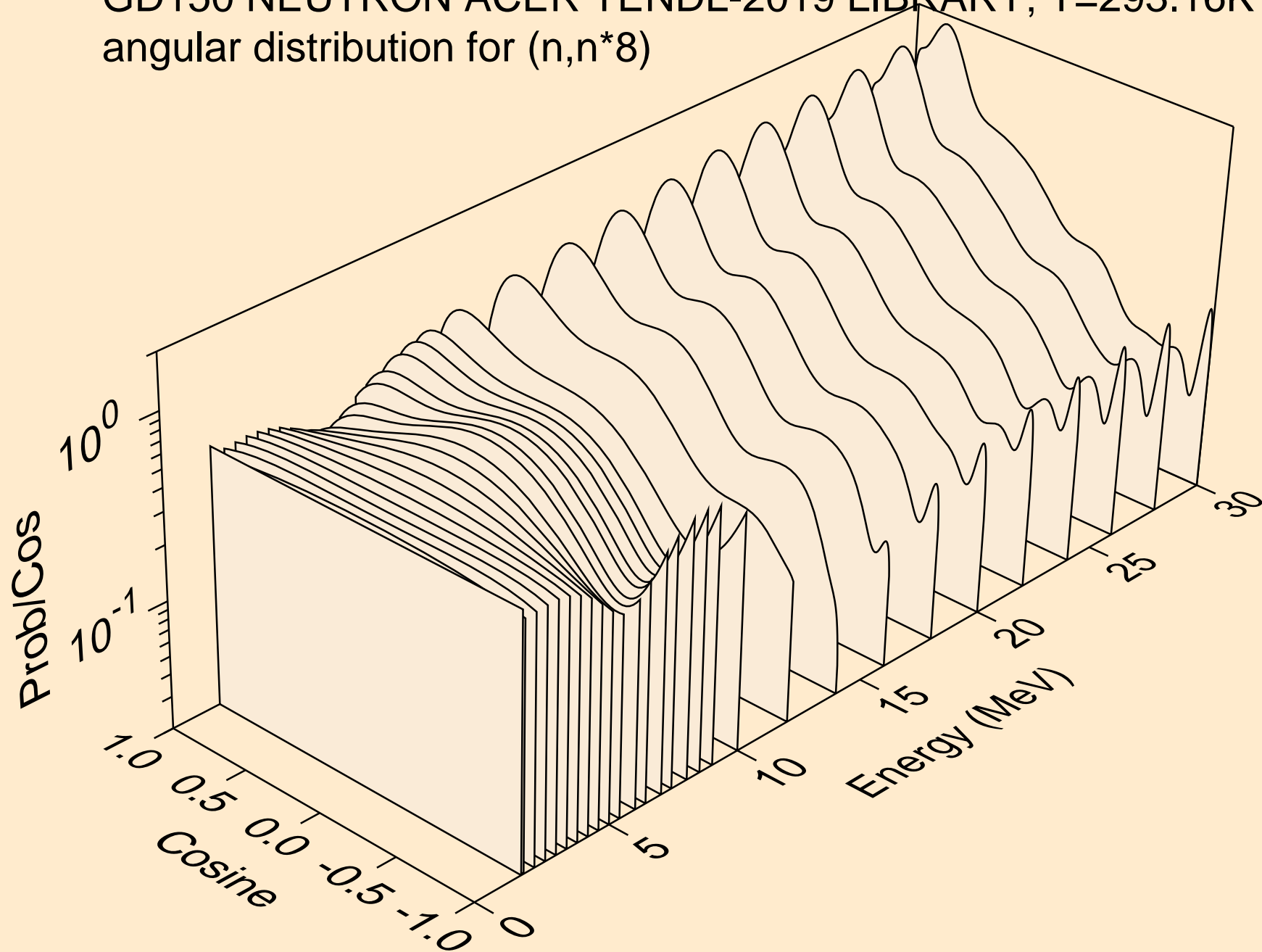
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angular distribution for (n,n\*6)



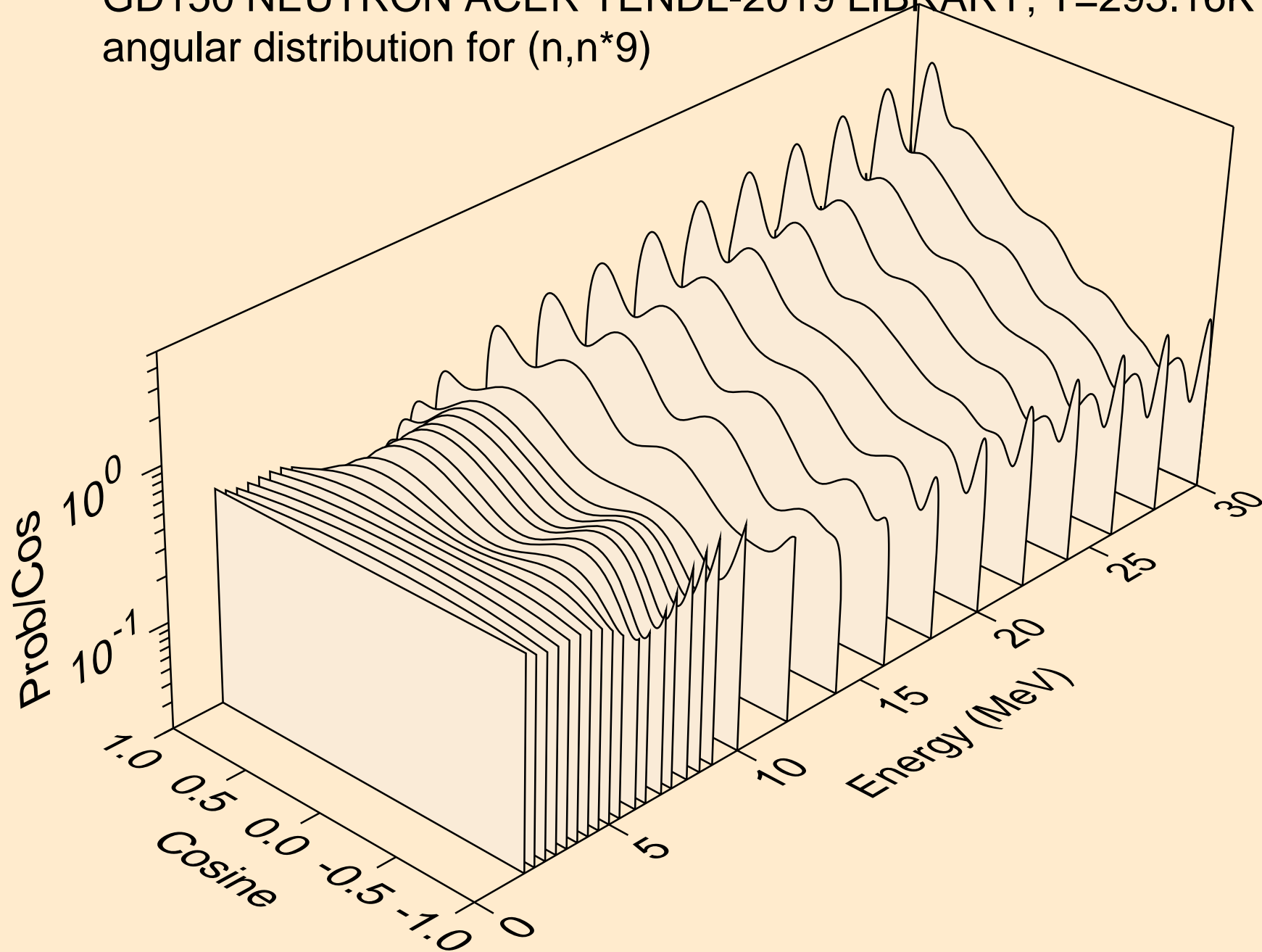
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angular distribution for (n,n\*7)



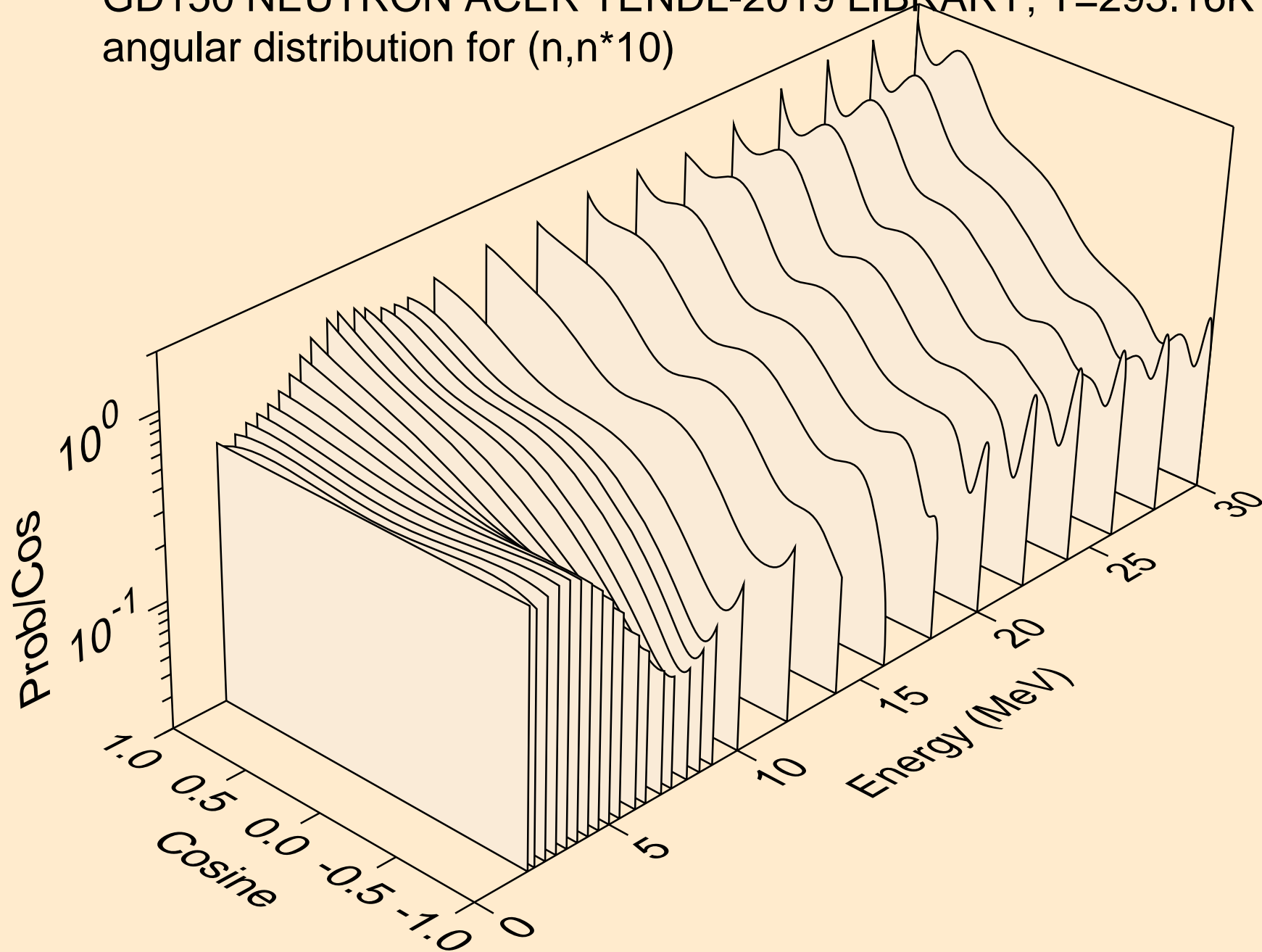
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angular distribution for (n,n\*8)



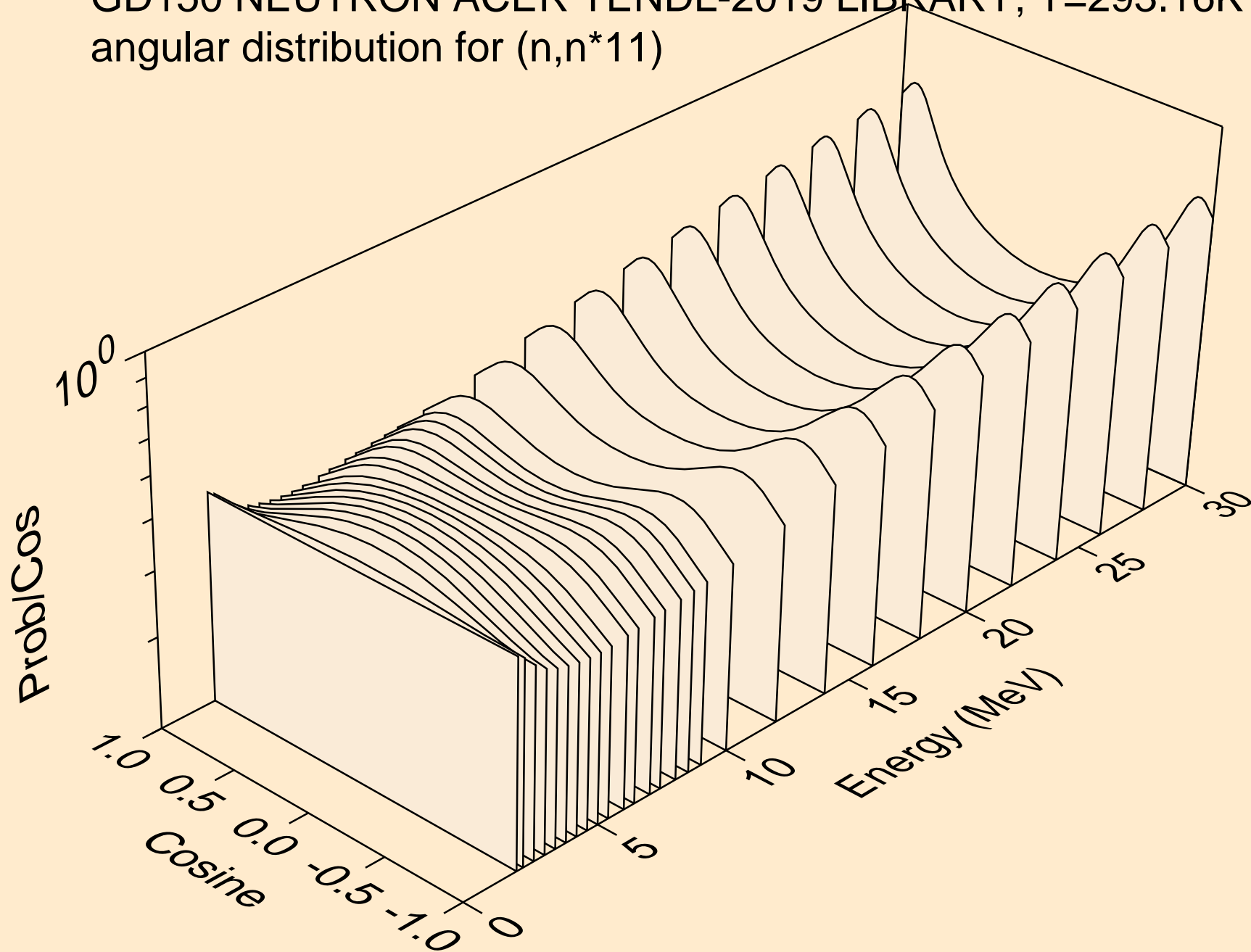
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)

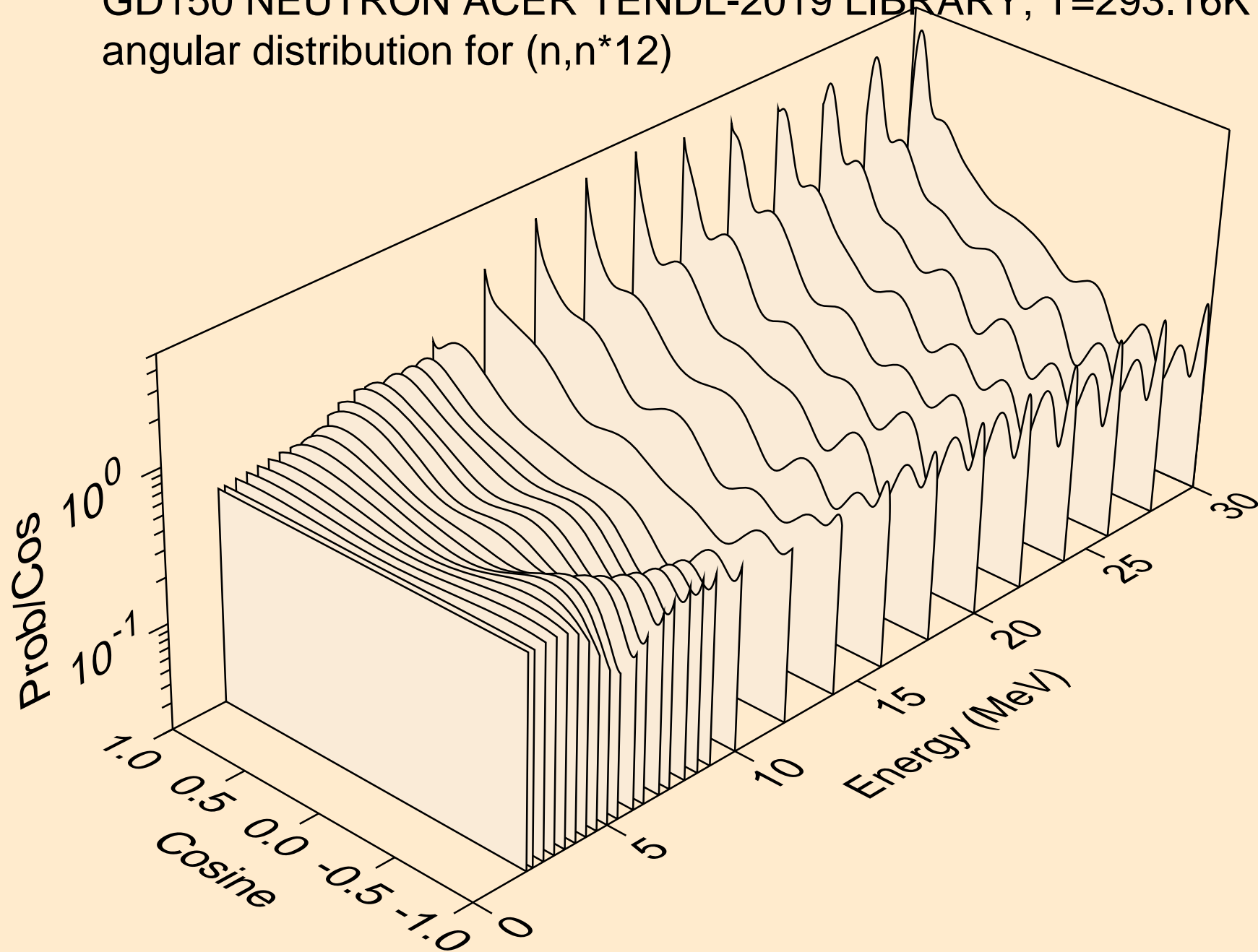


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angular distribution for (n,n\*11)

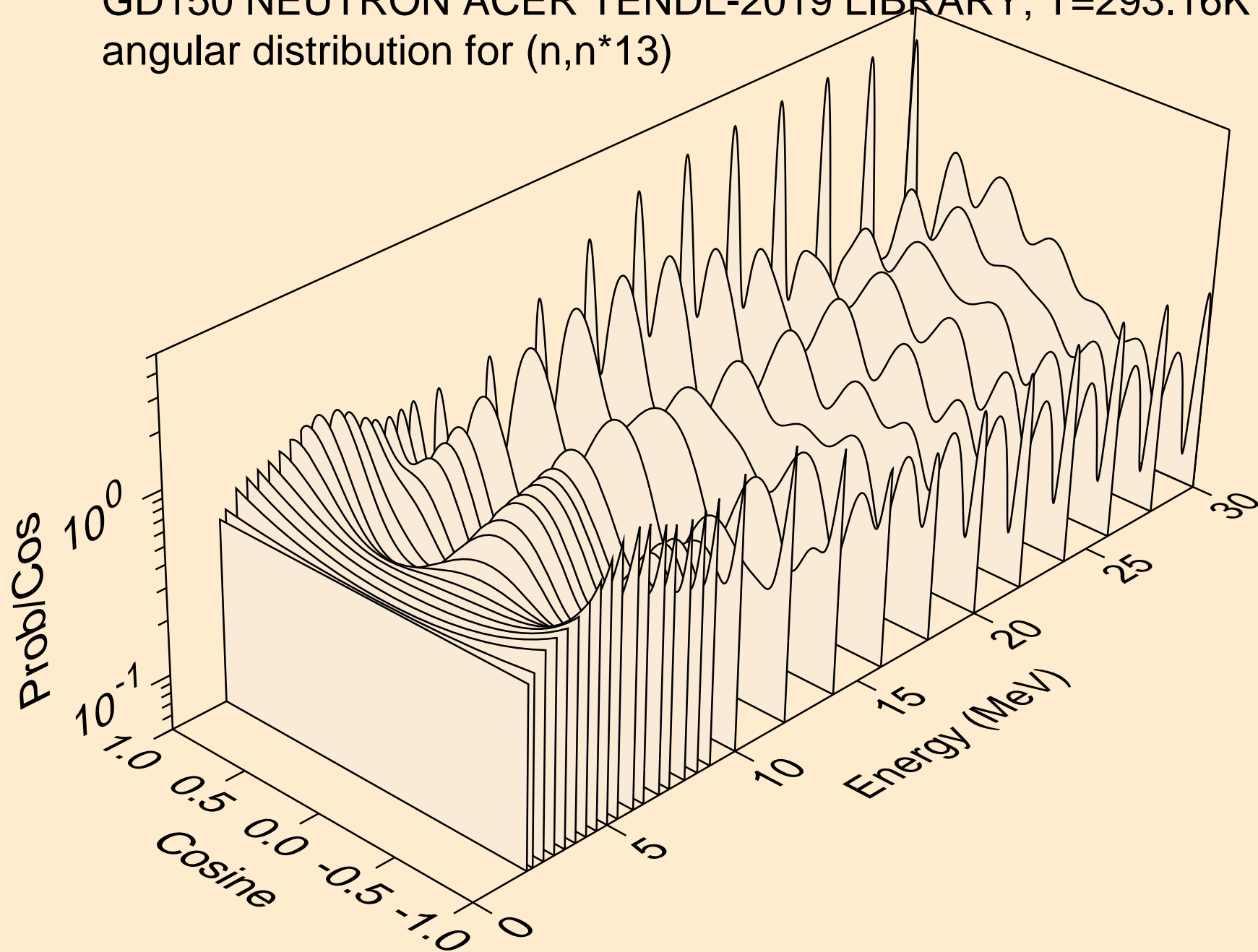




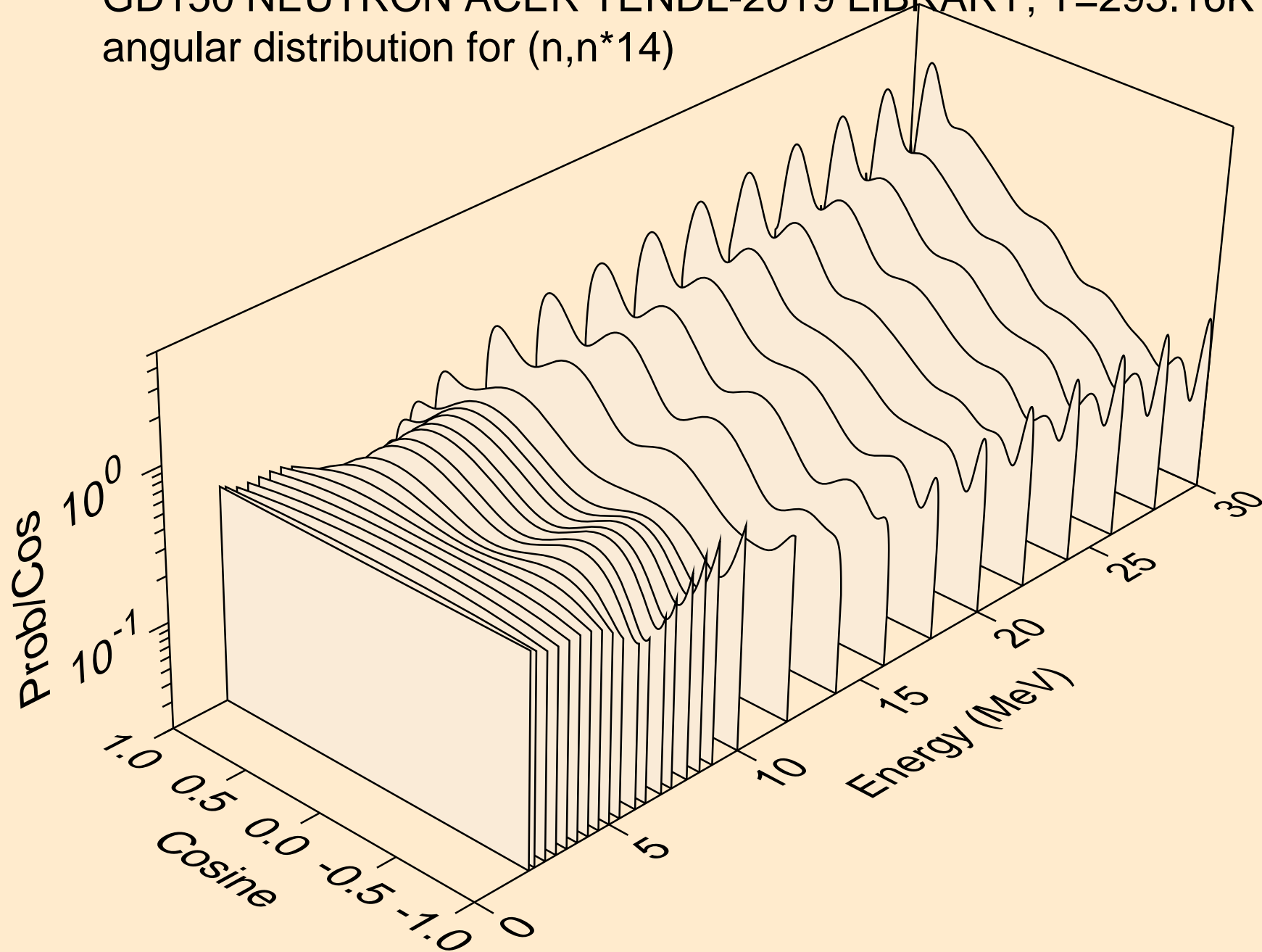
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angular distribution for (n,n\*12)



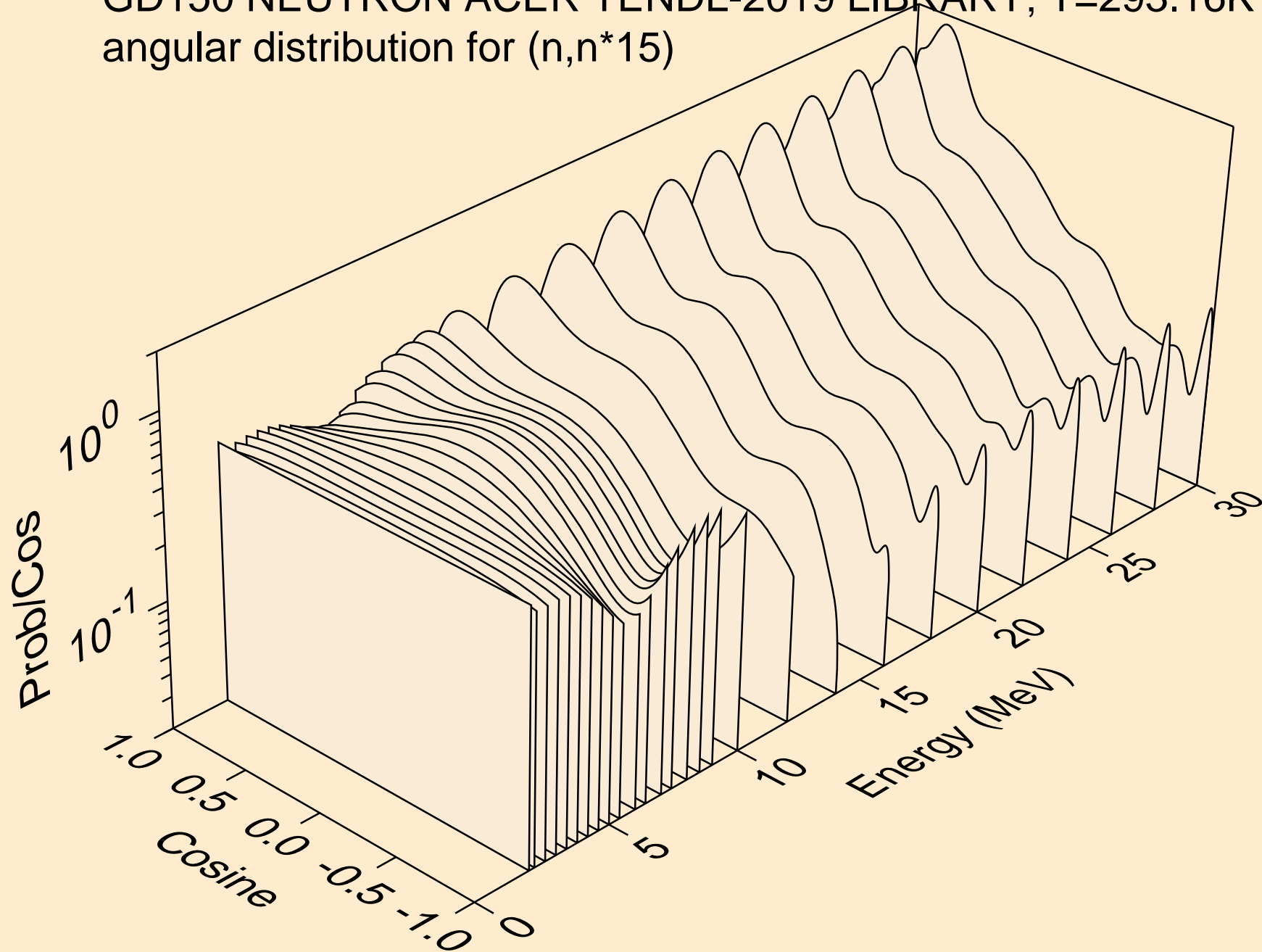
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angular distribution for (n,n\*13)



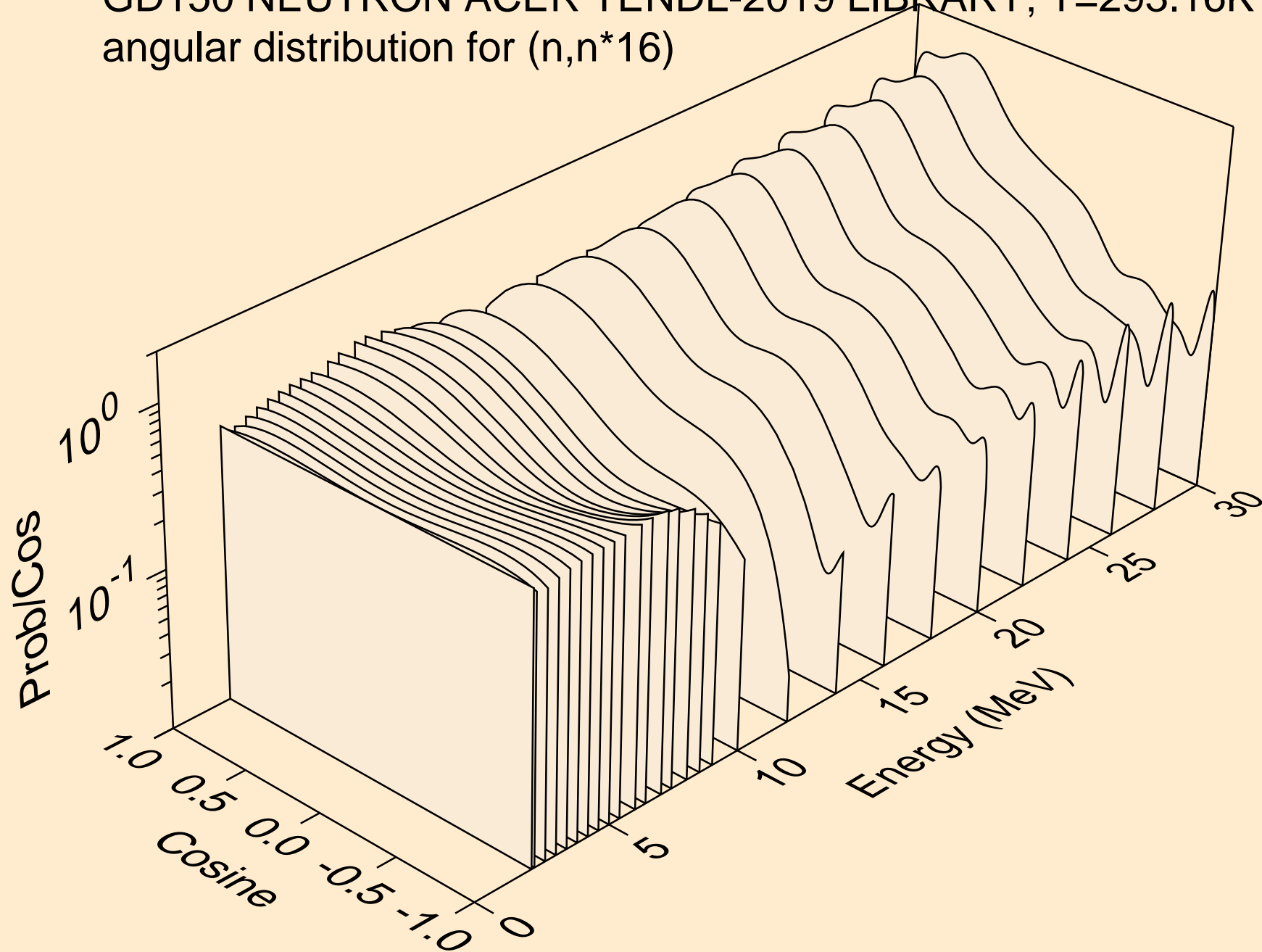
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angular distribution for (n,n\*14)



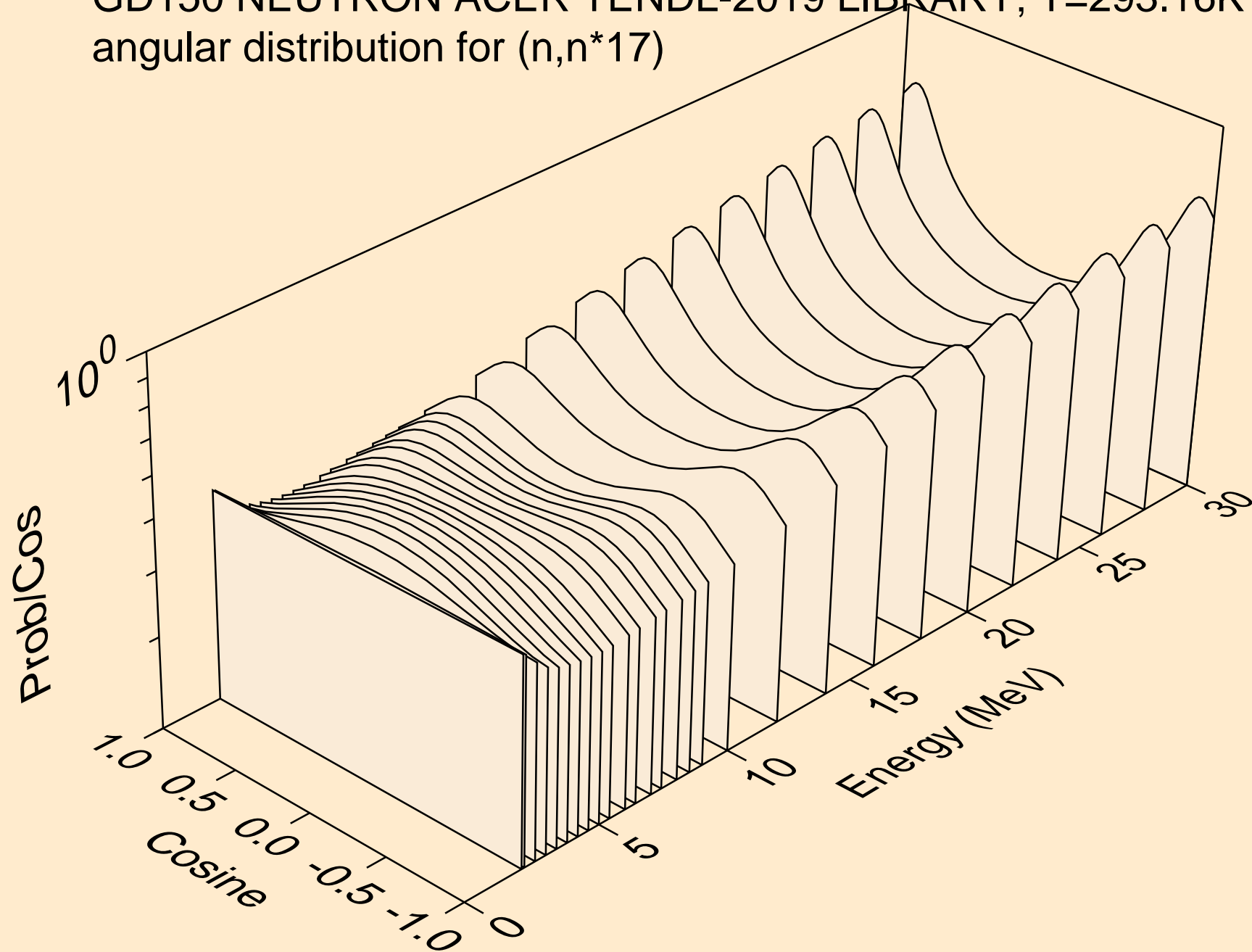
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angular distribution for (n,n\*15)



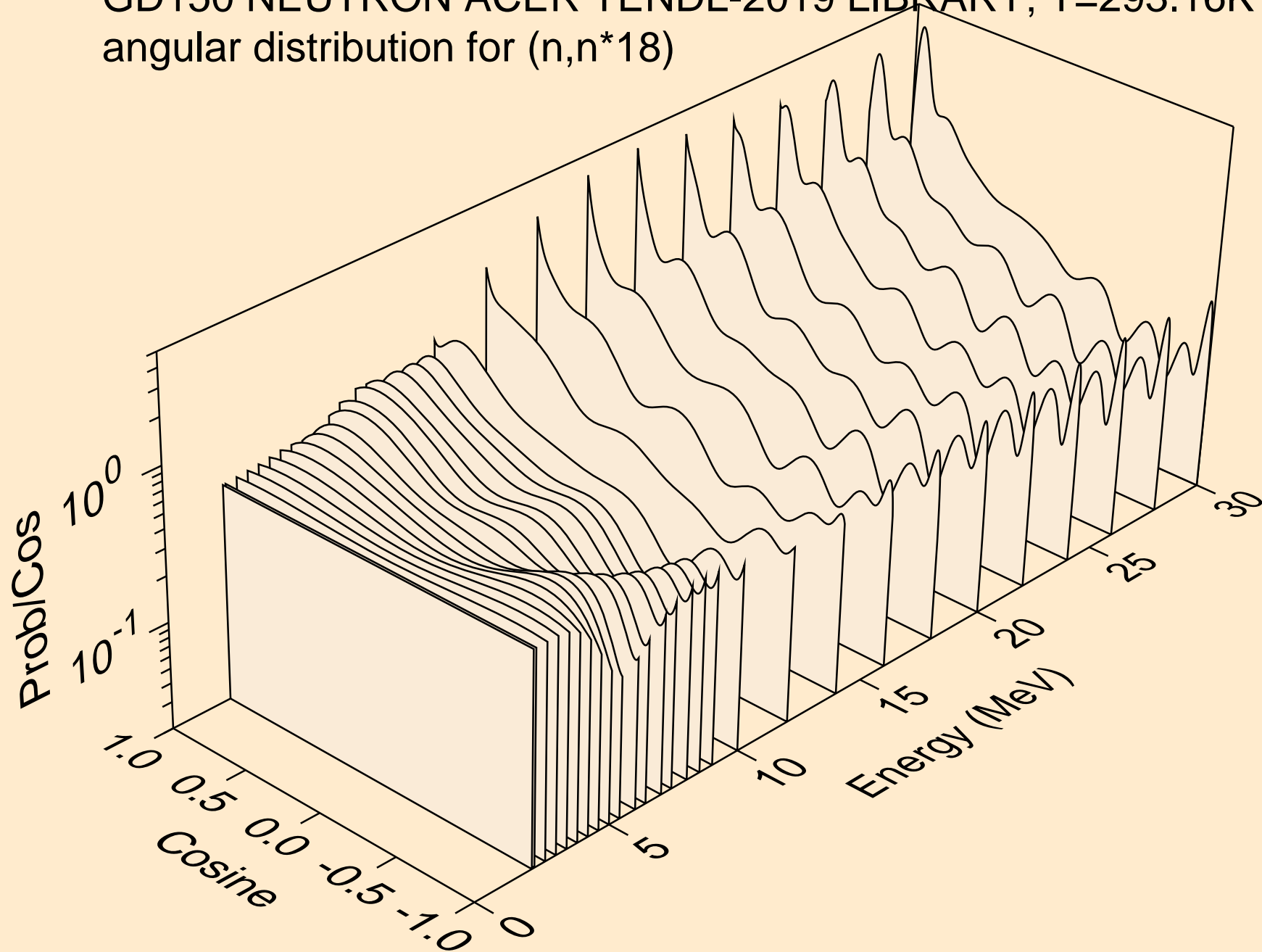
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angular distribution for (n,n\*16)



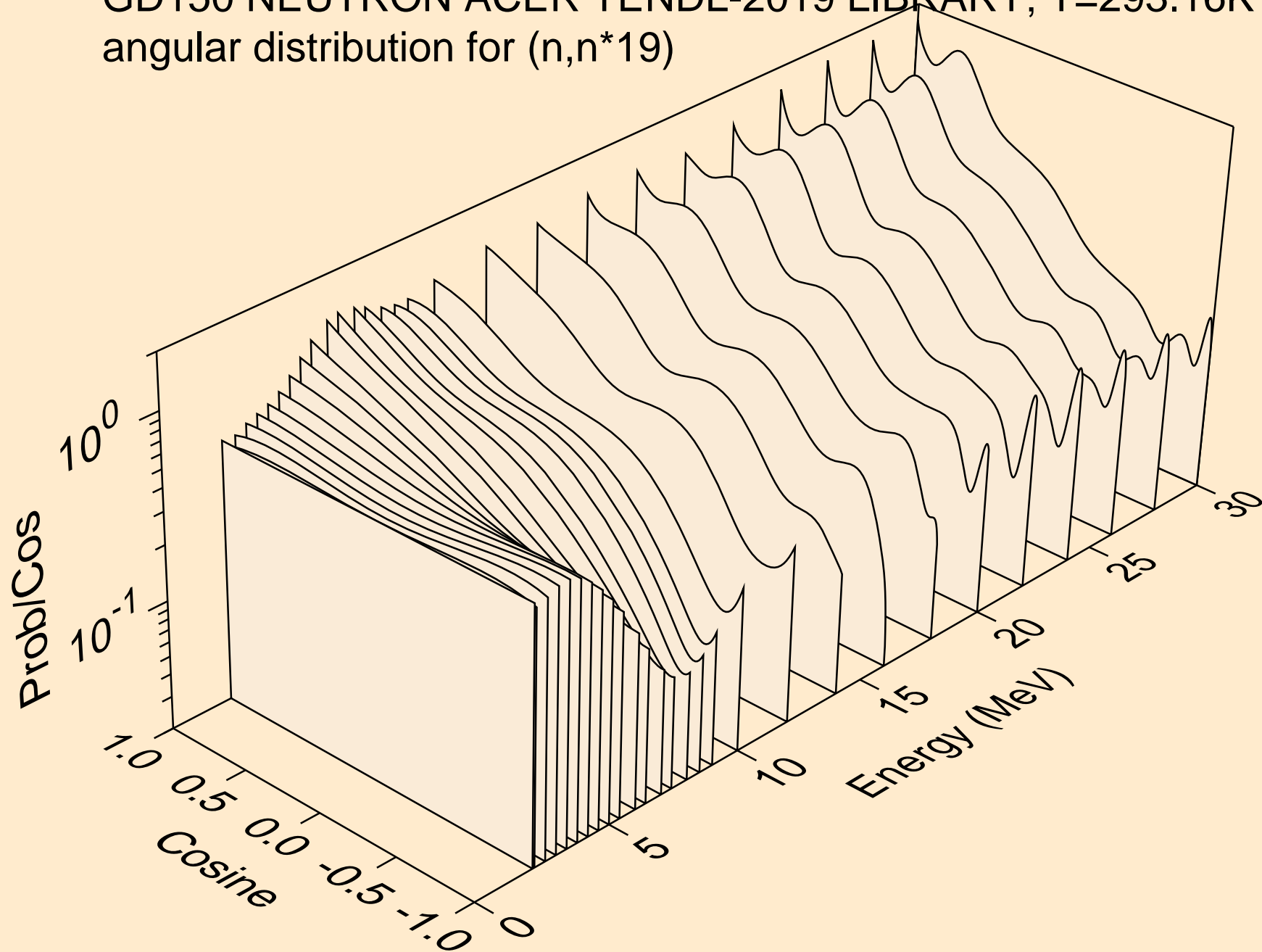
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

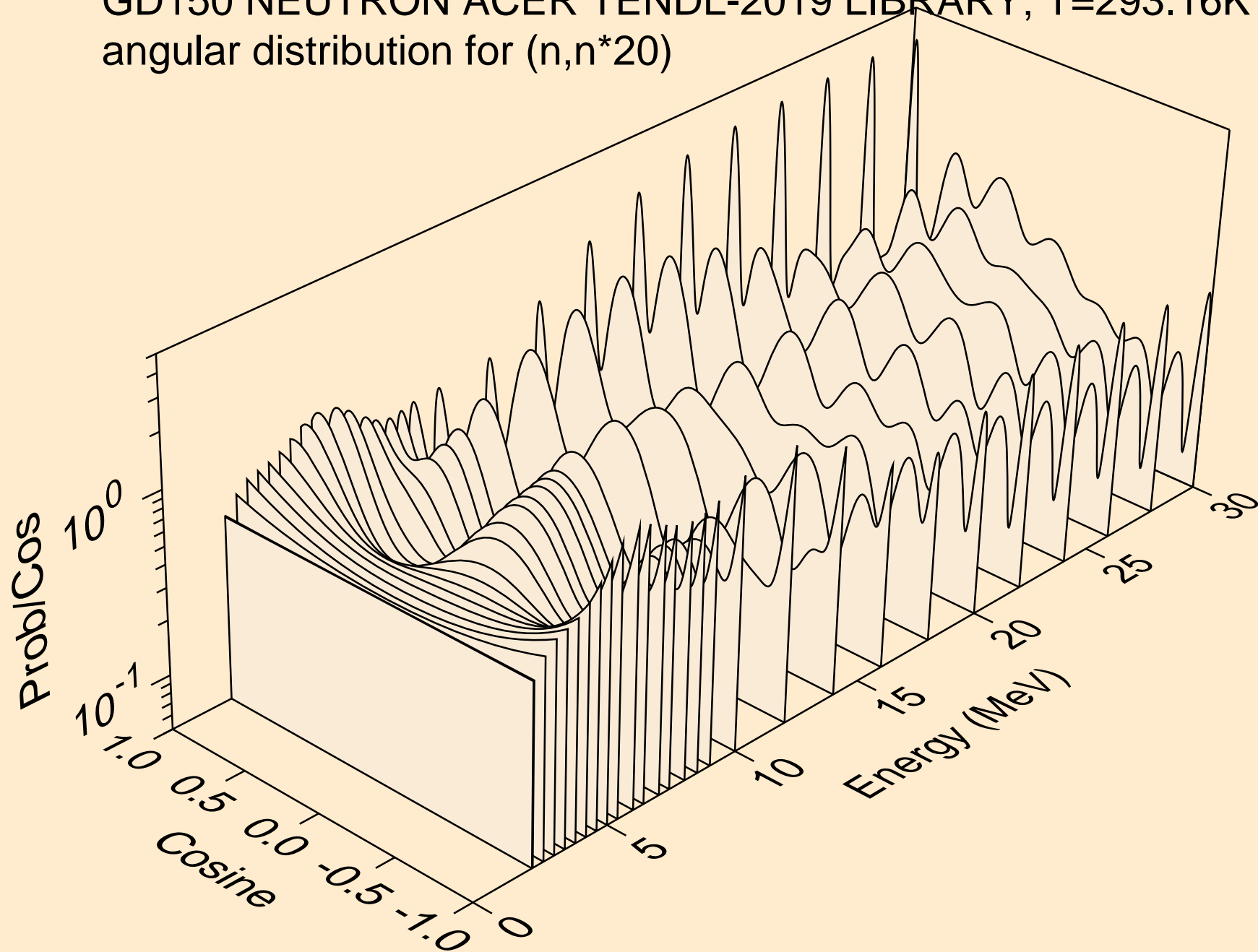


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angular distribution for (n,n\*19)

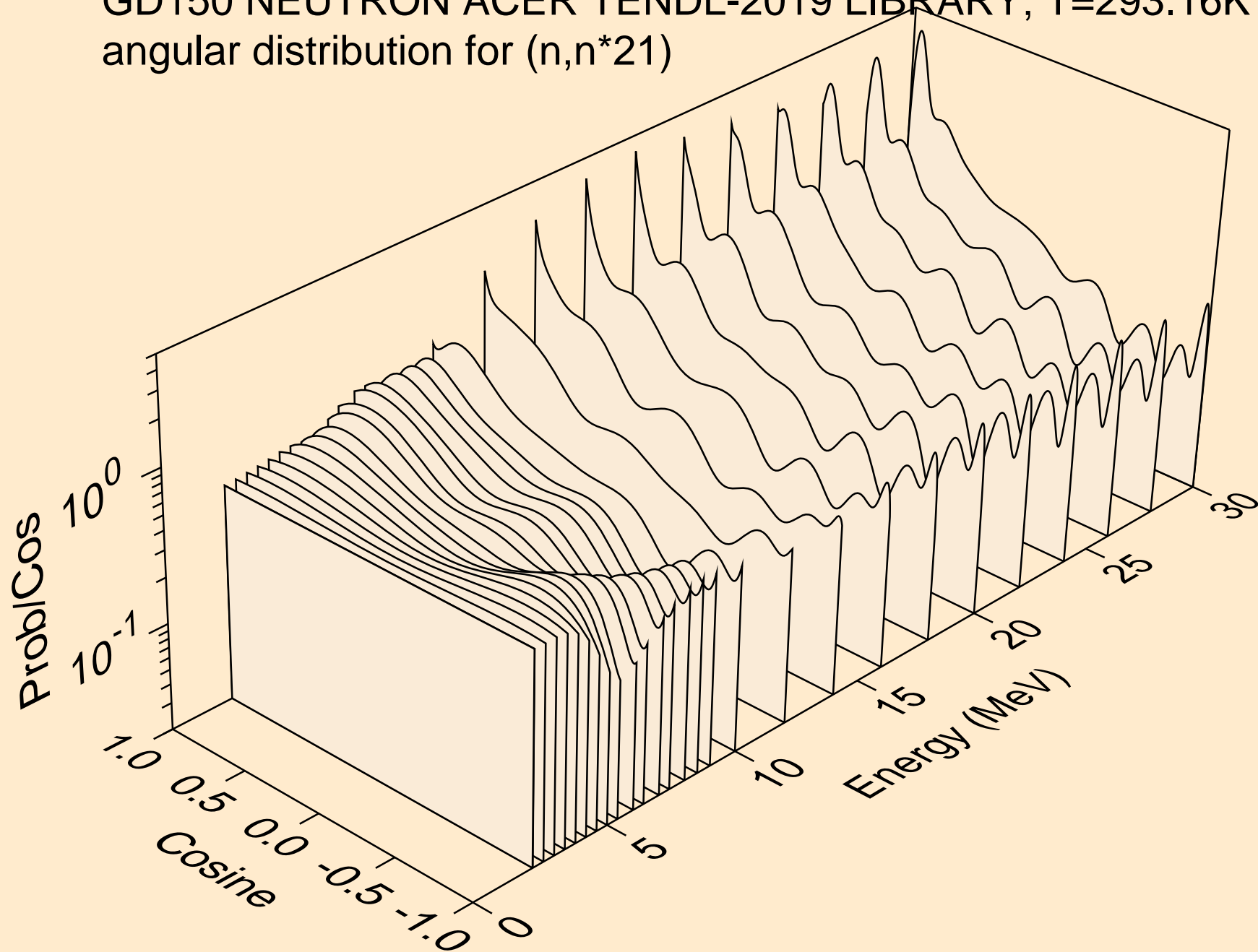




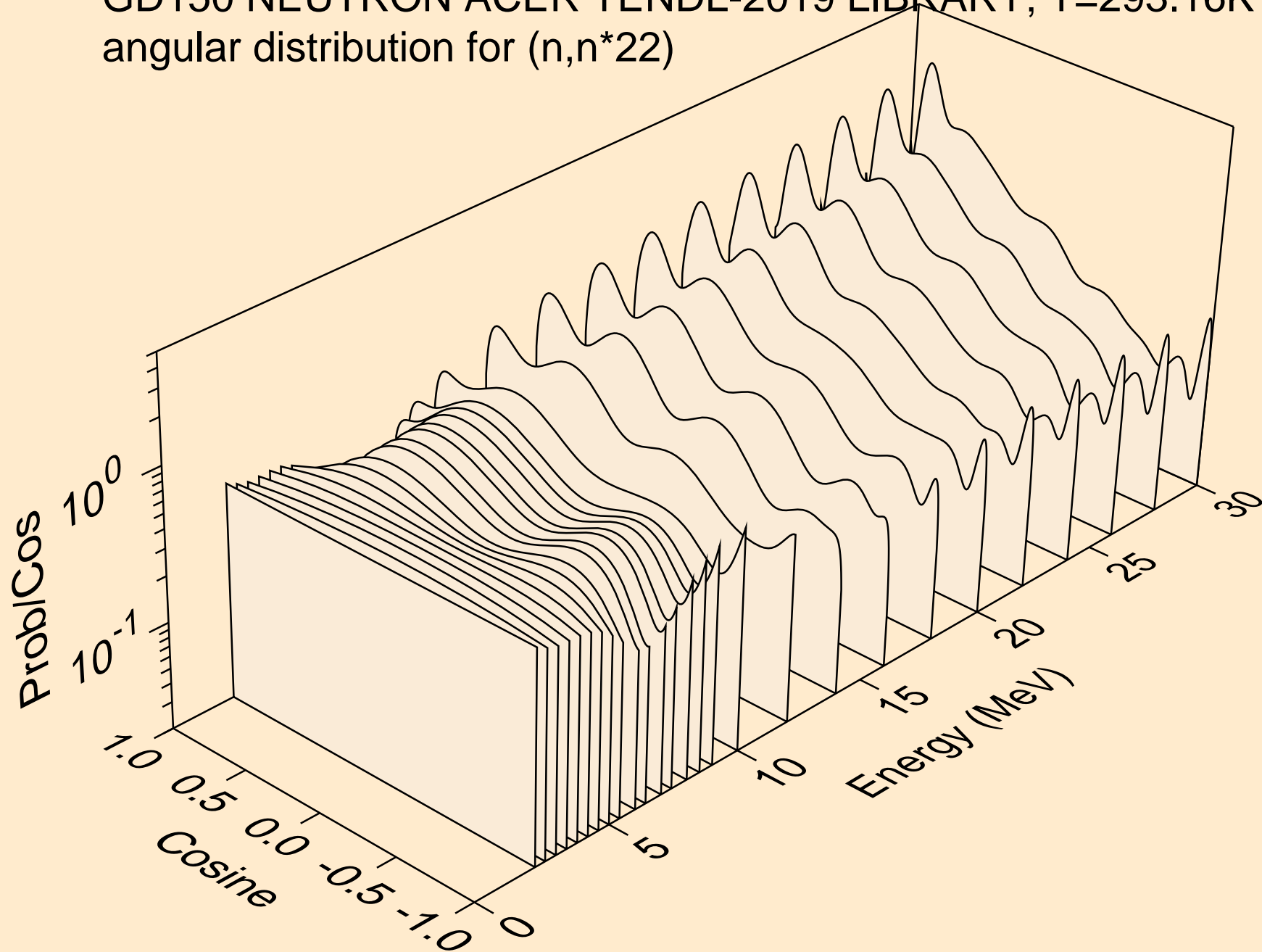
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angular distribution for (n,n\*20)



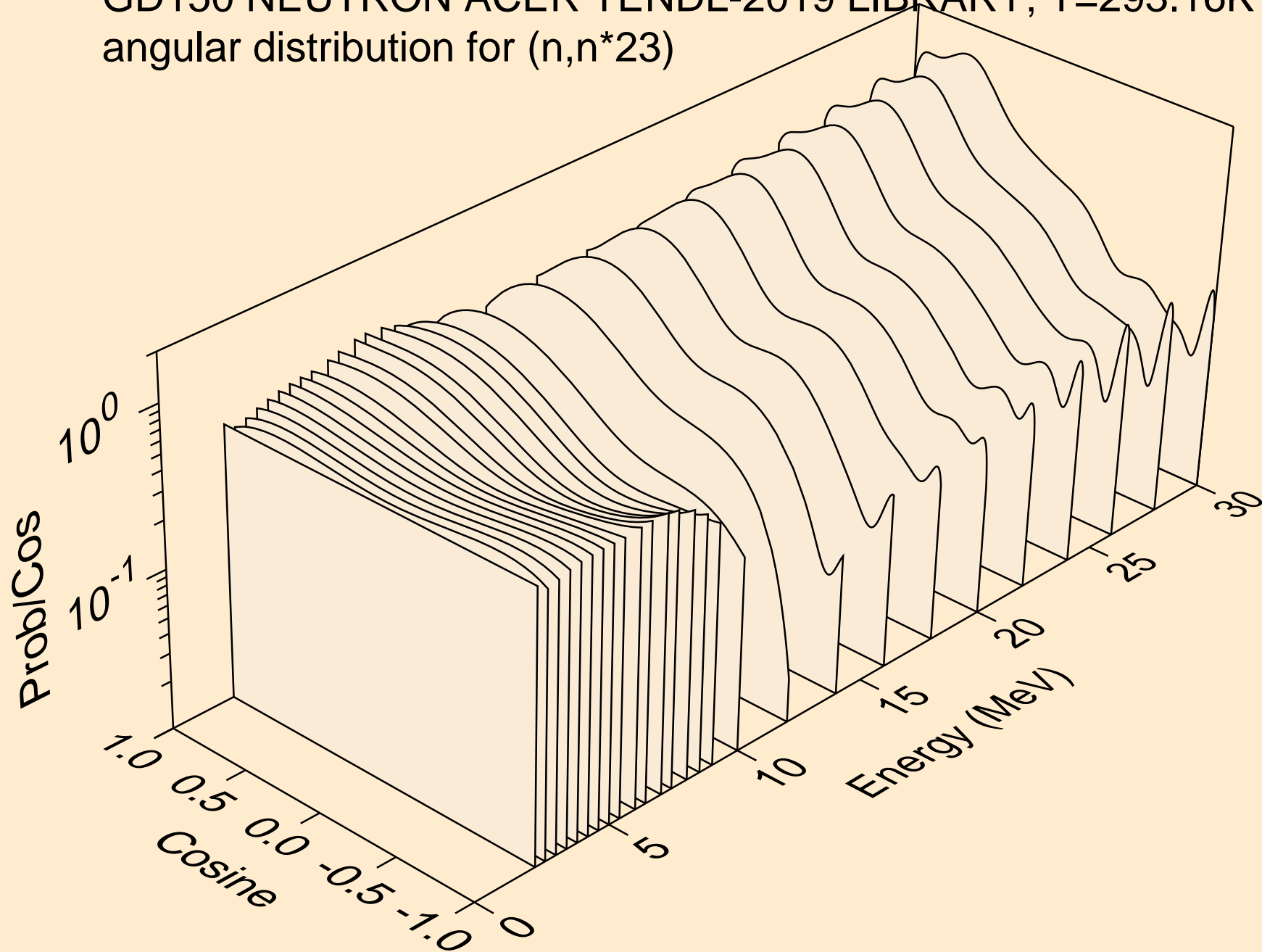
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angular distribution for (n,n\*21)



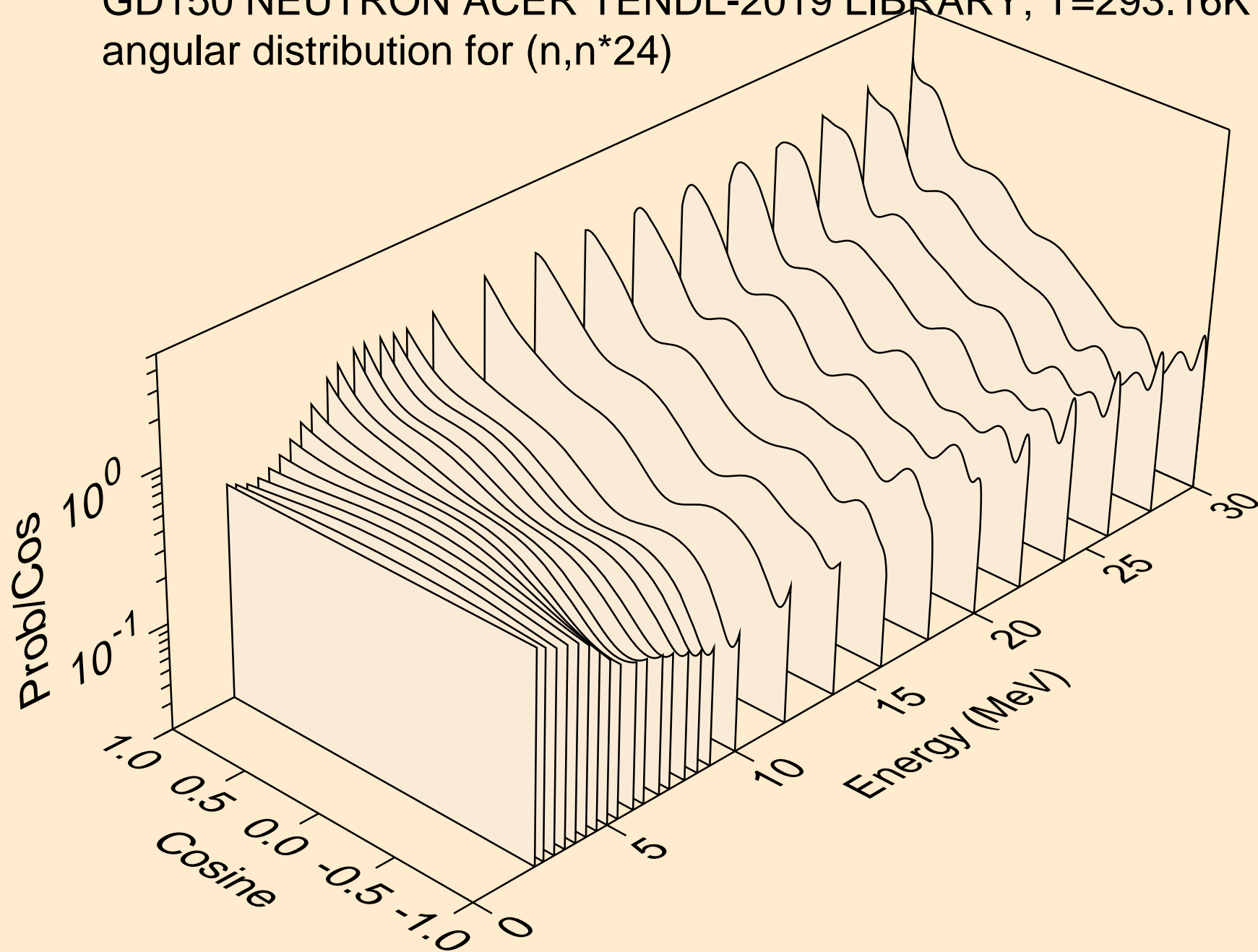
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angular distribution for (n,n\*22)



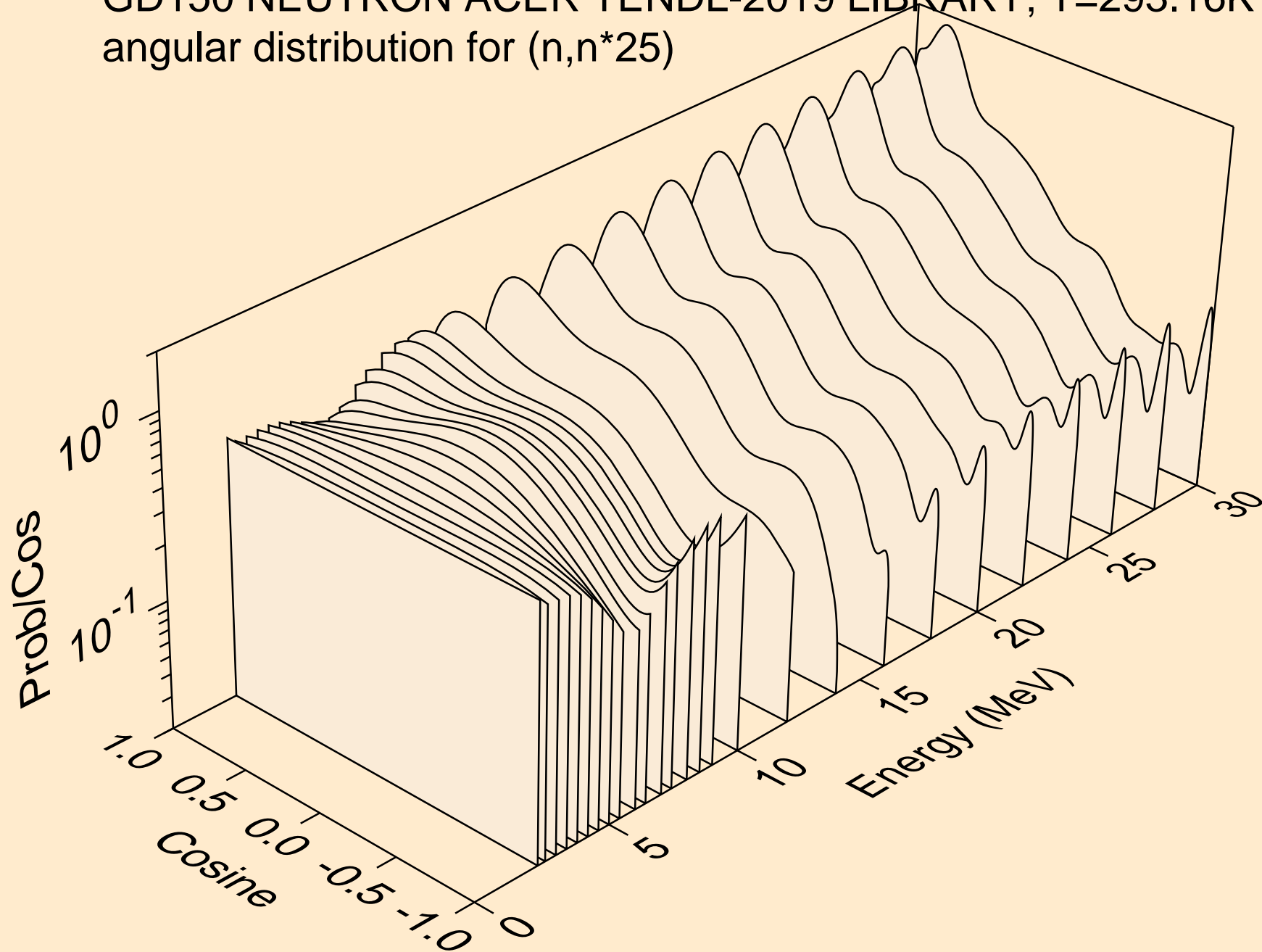
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angular distribution for (n,n\*23)



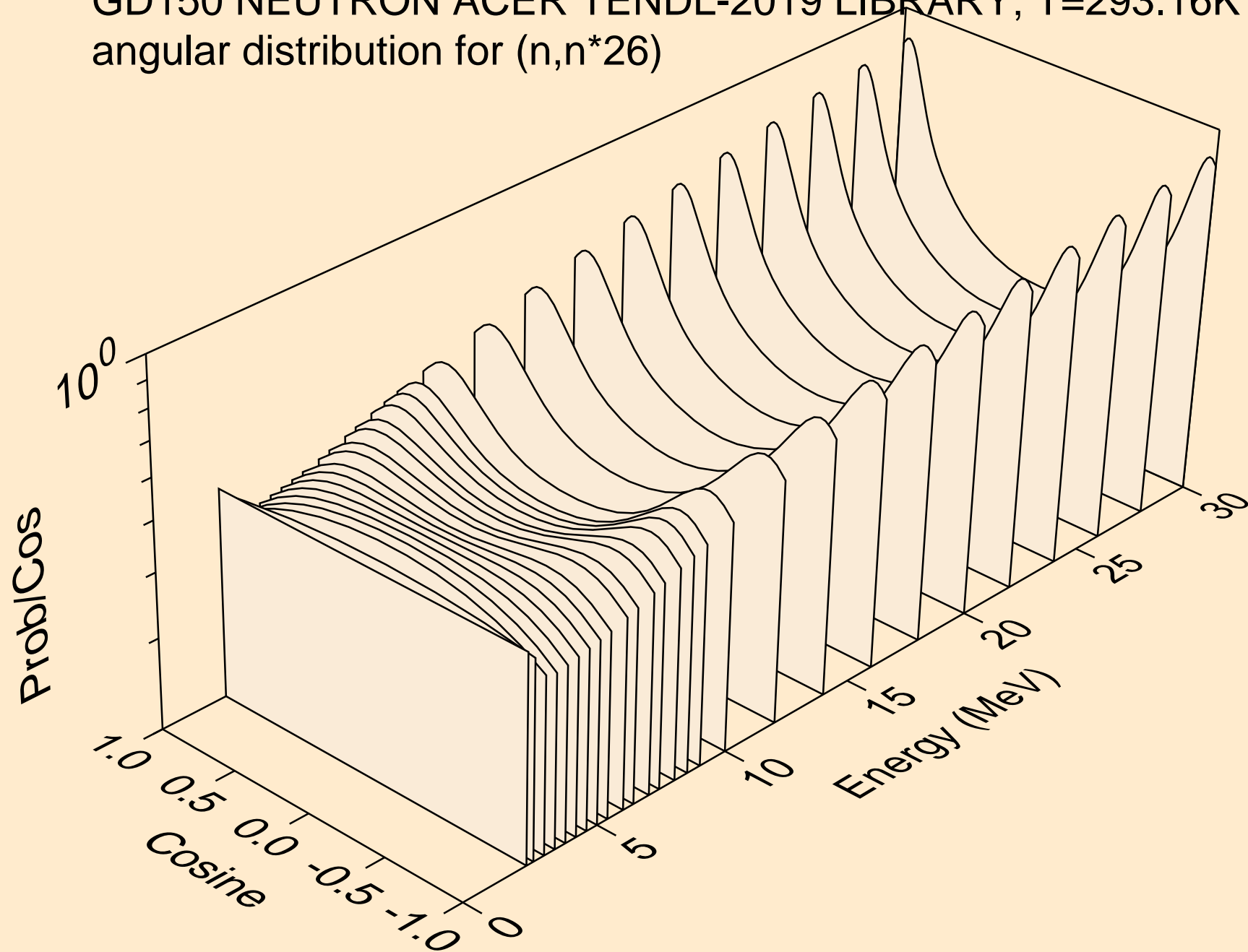
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angular distribution for (n,n\*24)



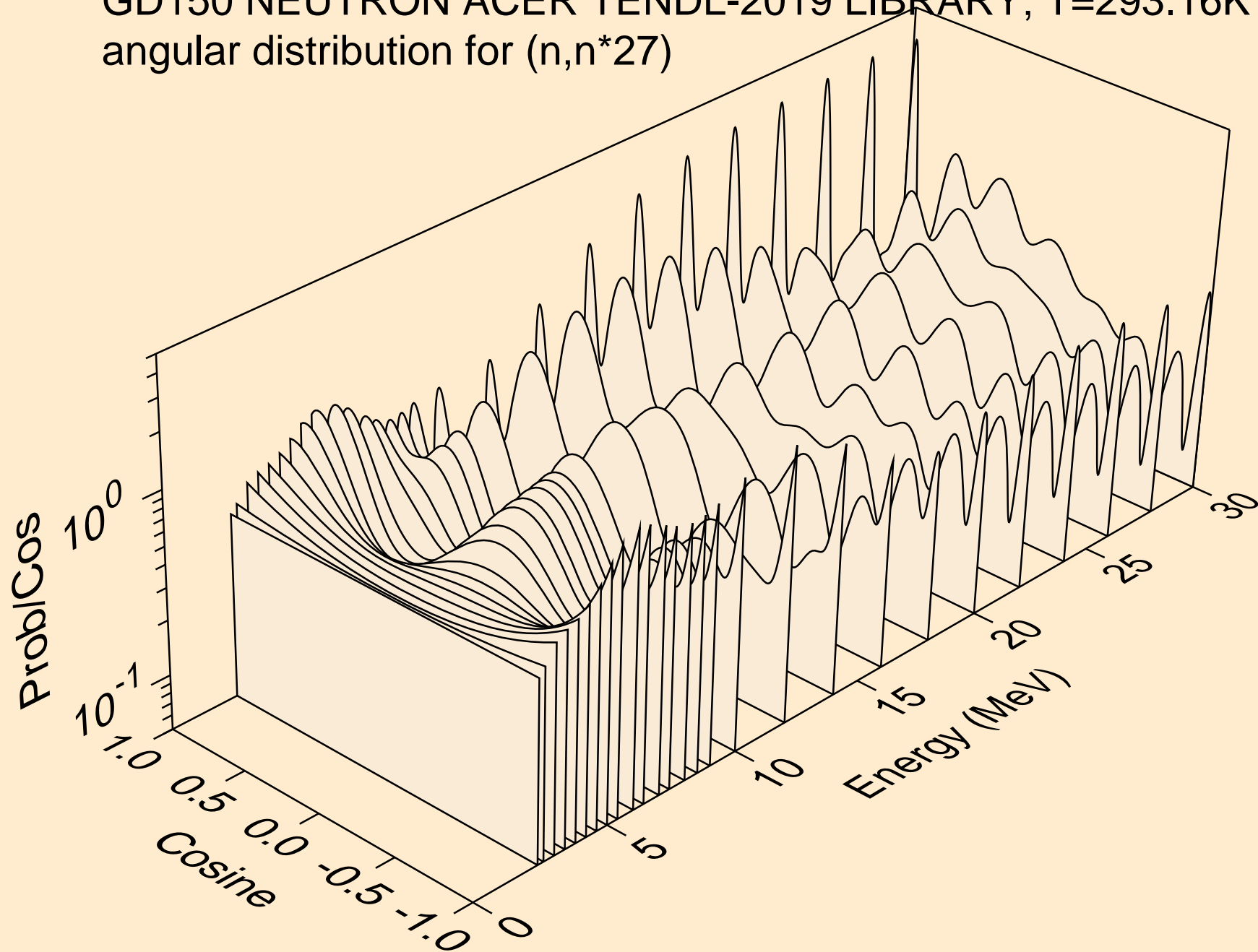
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)

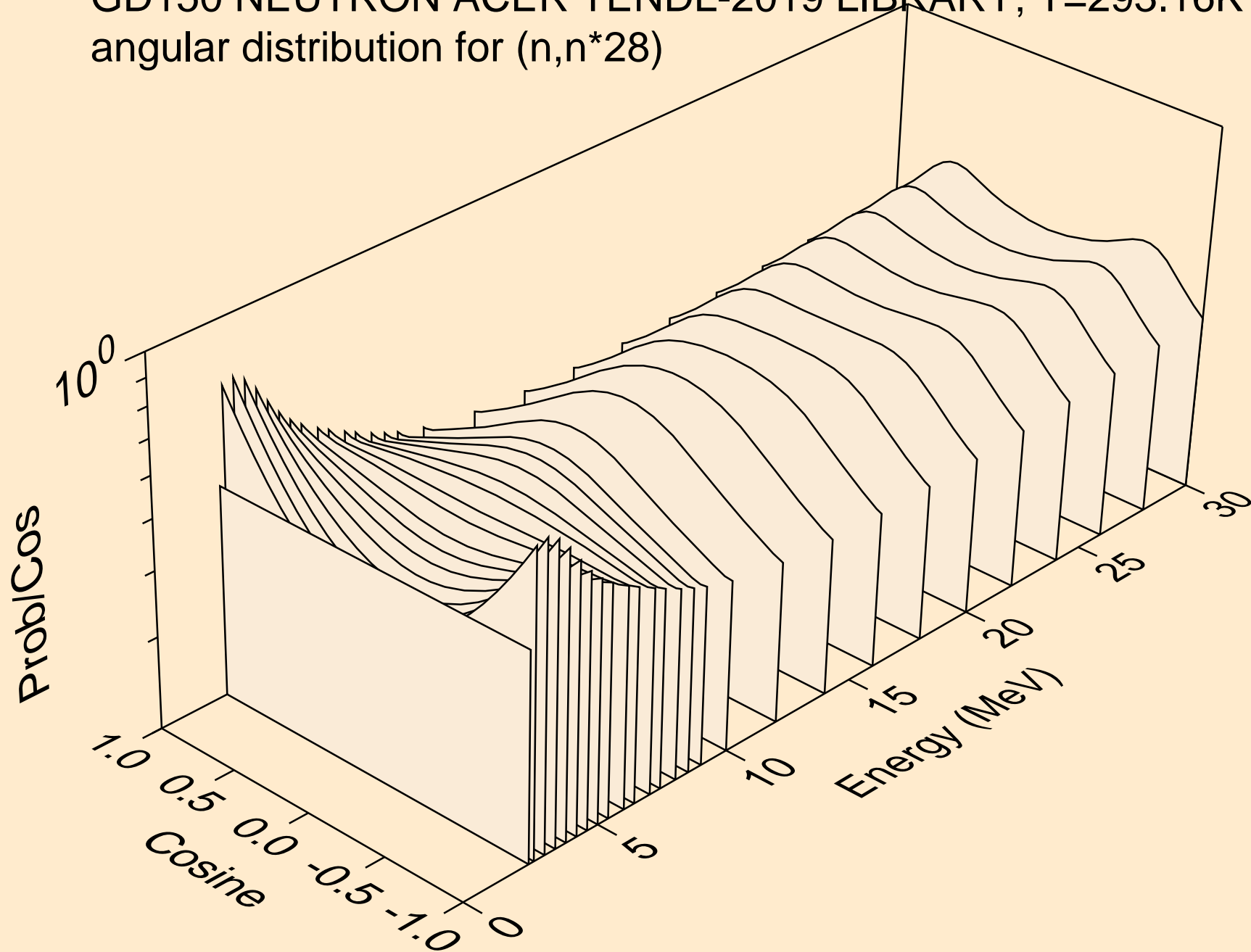


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)

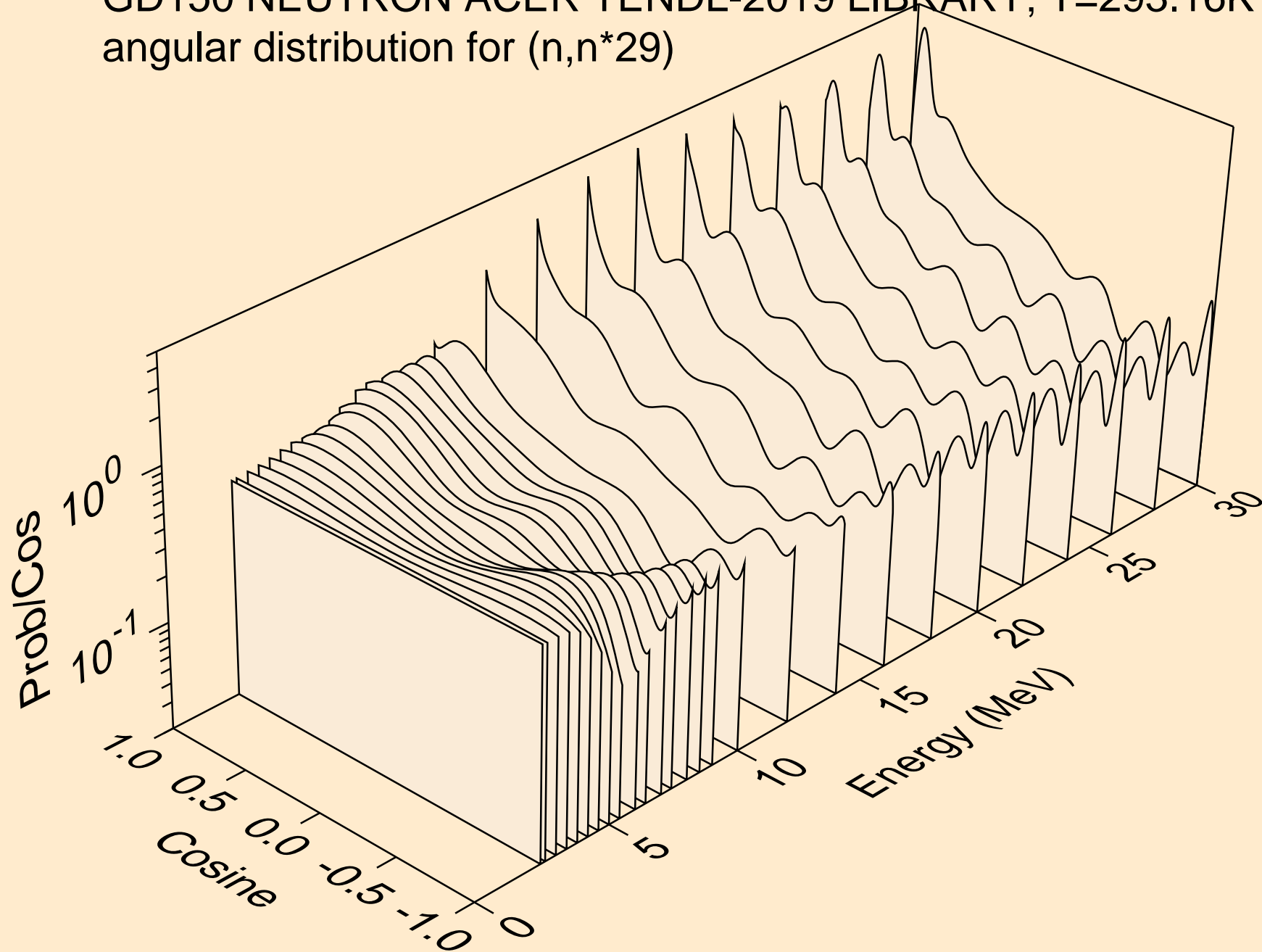




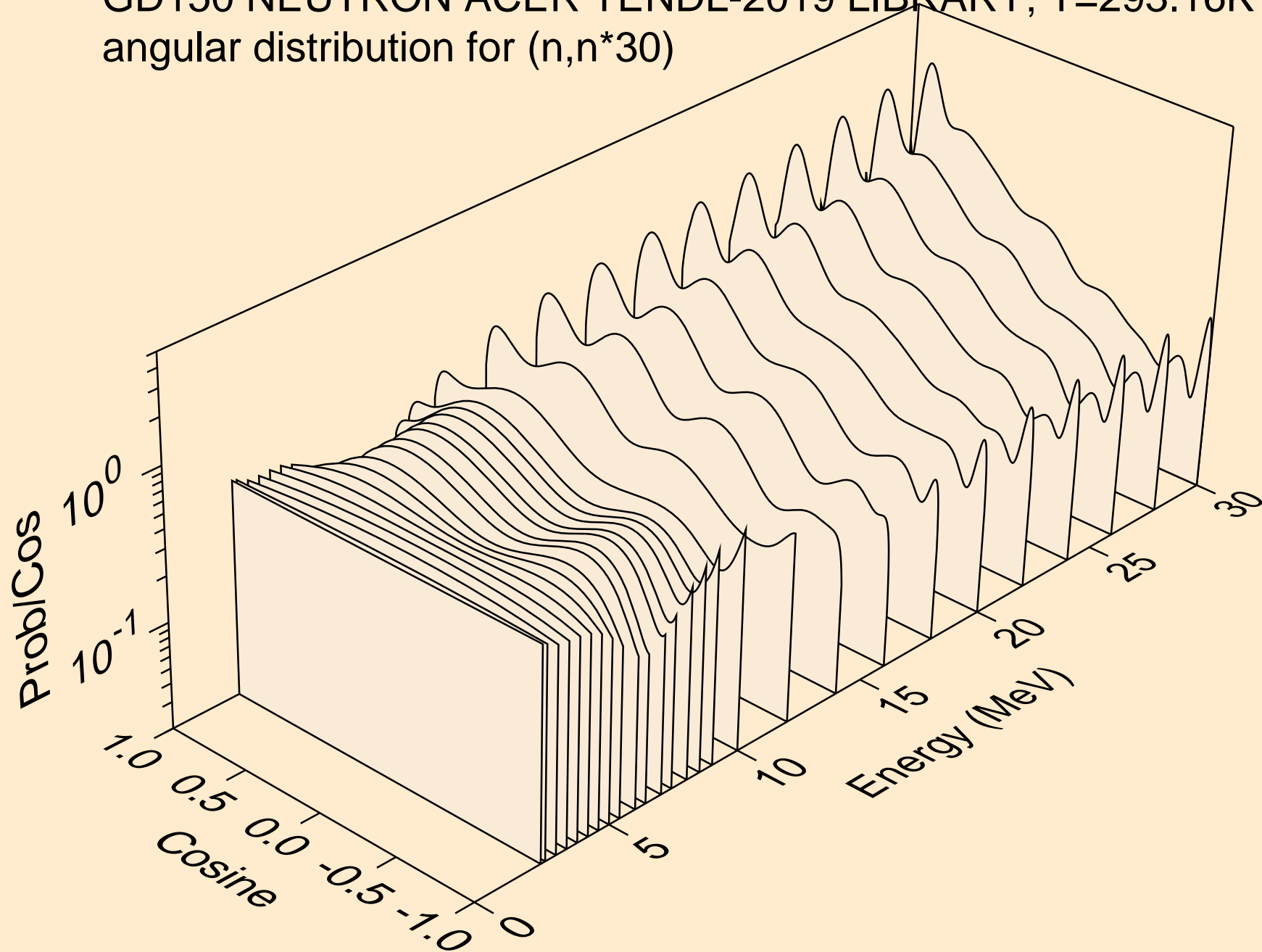
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angular distribution for (n,n\*28)



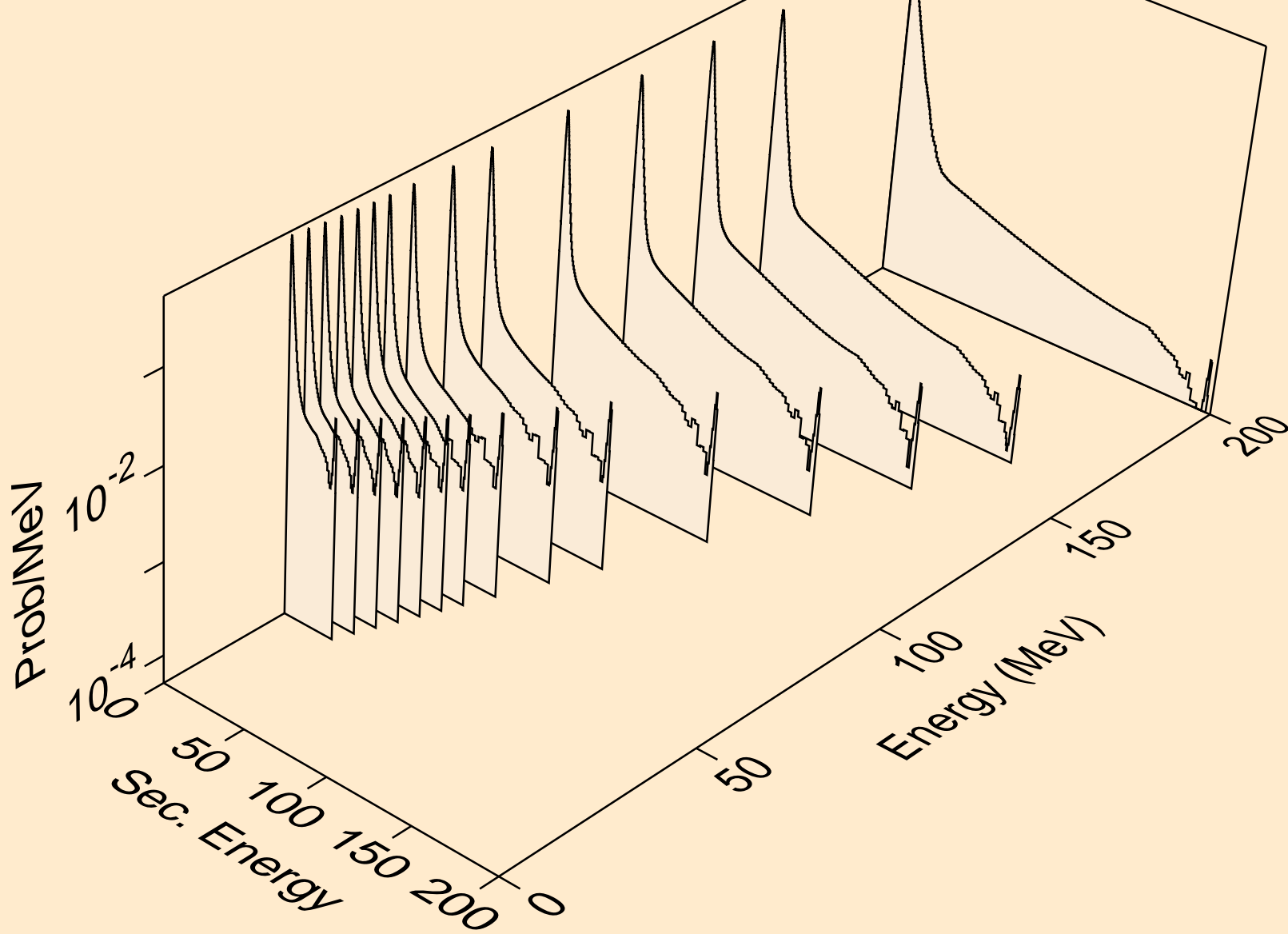
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angular distribution for (n,n\*29)



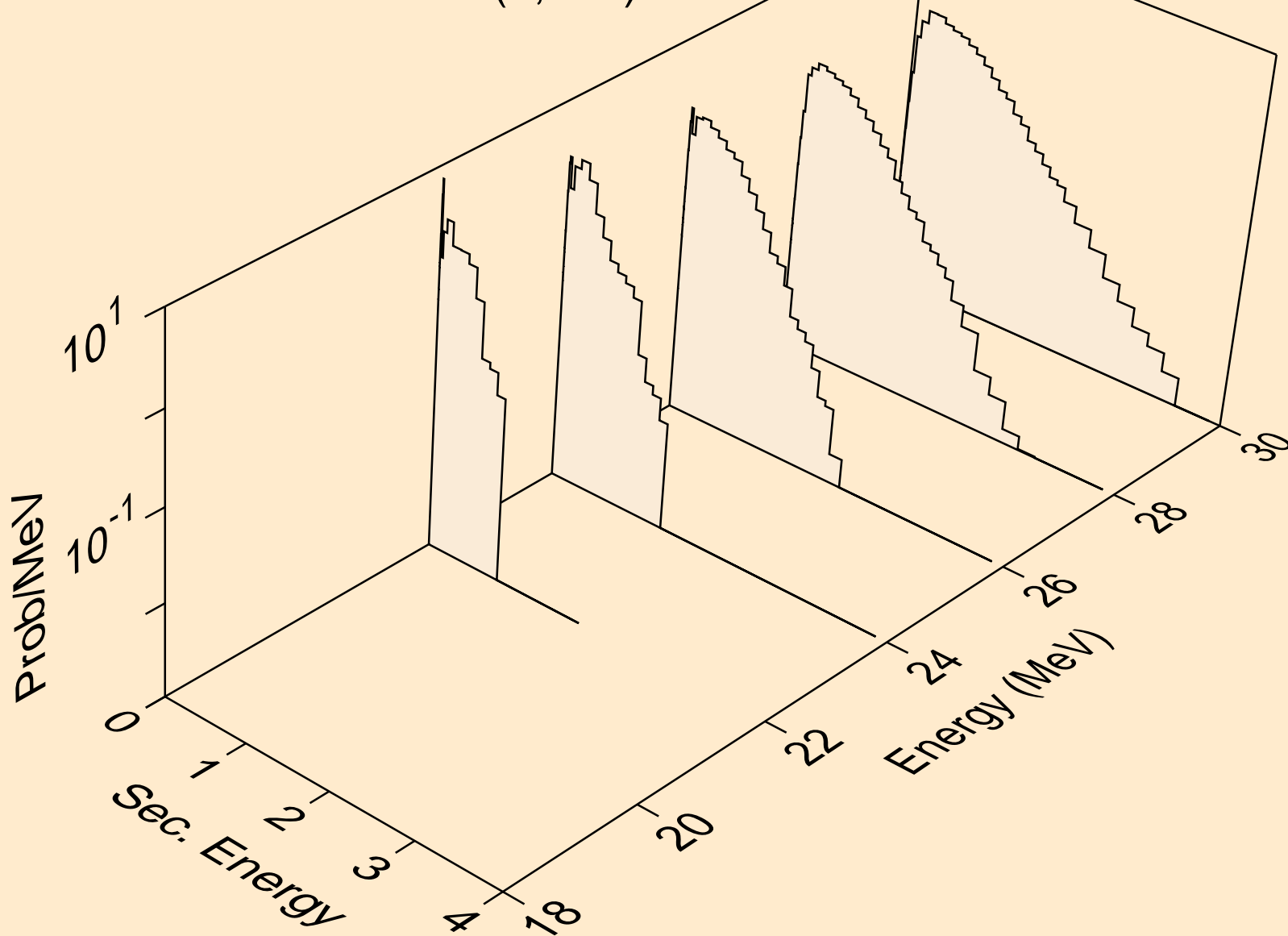
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angular distribution for (n,n\*30)



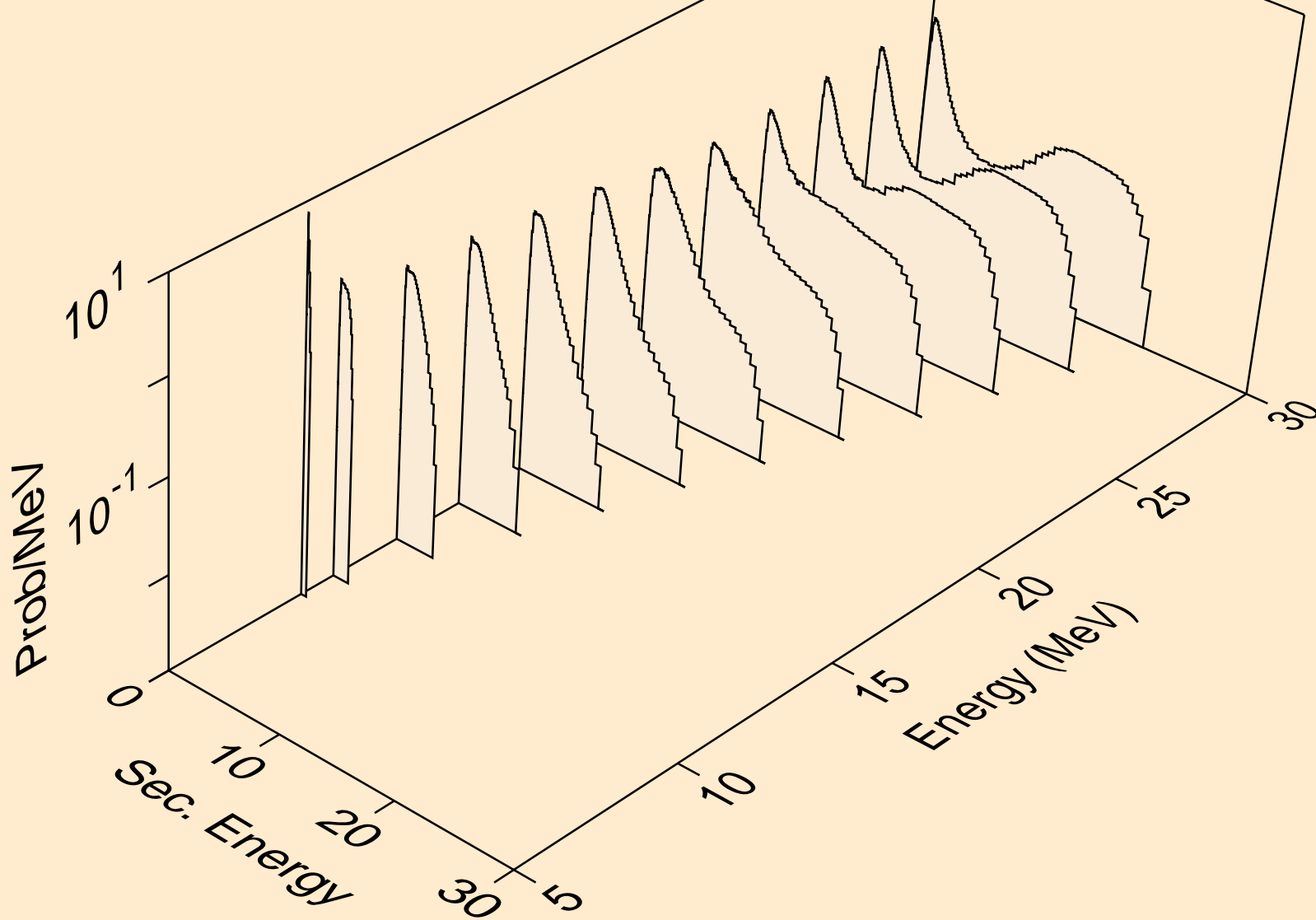
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Neutron emission for (n,x)



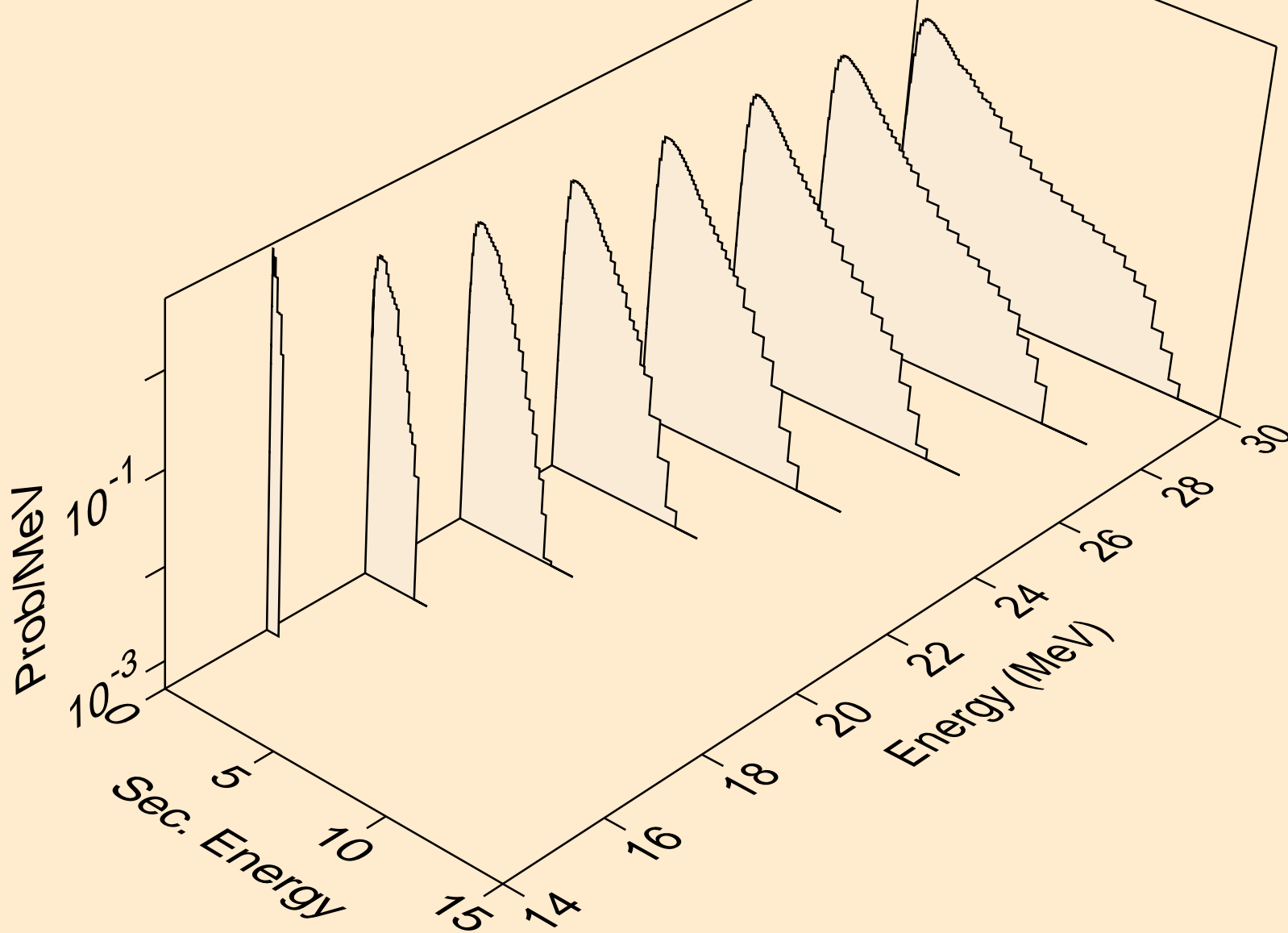
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



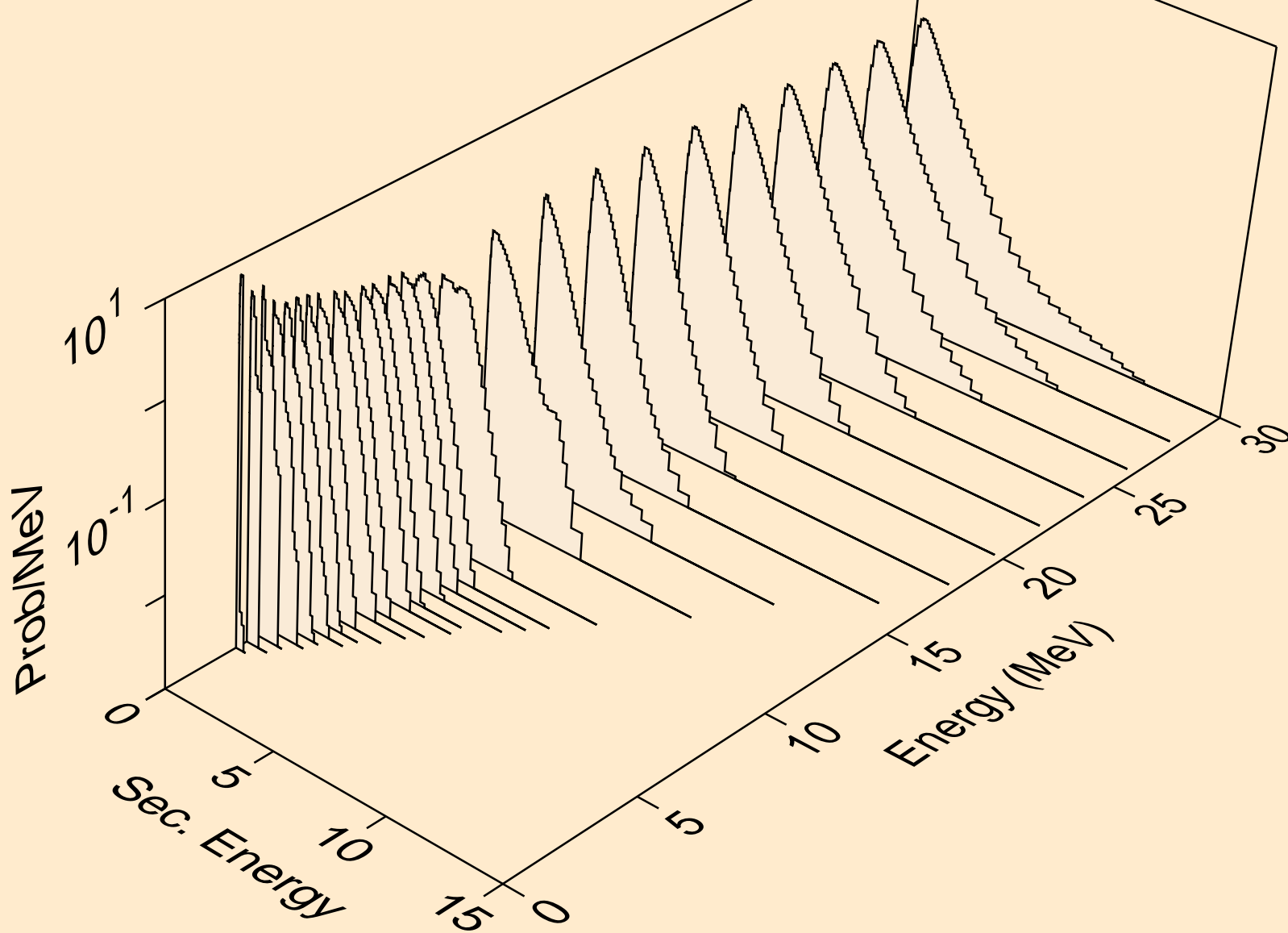
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

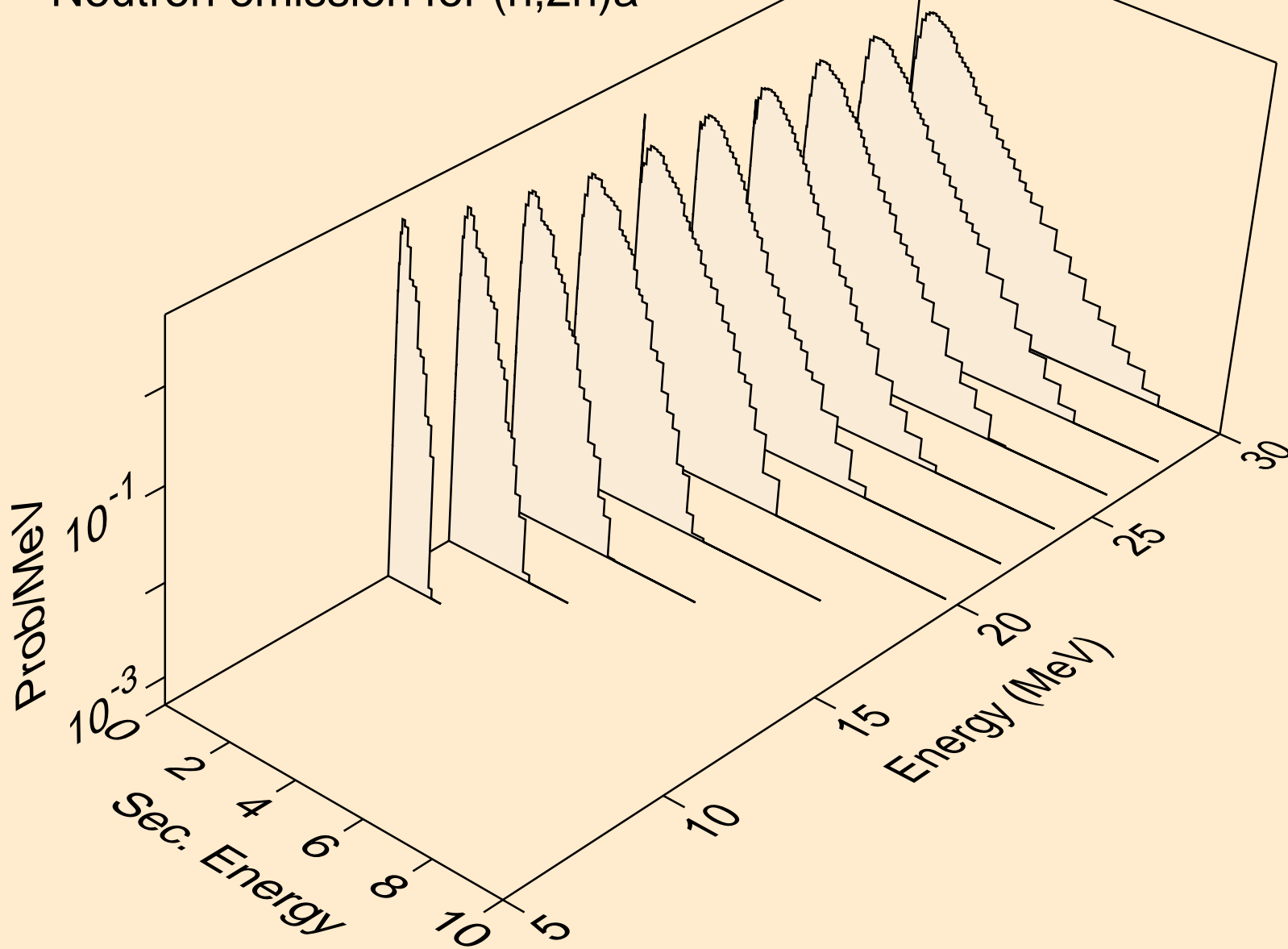


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a

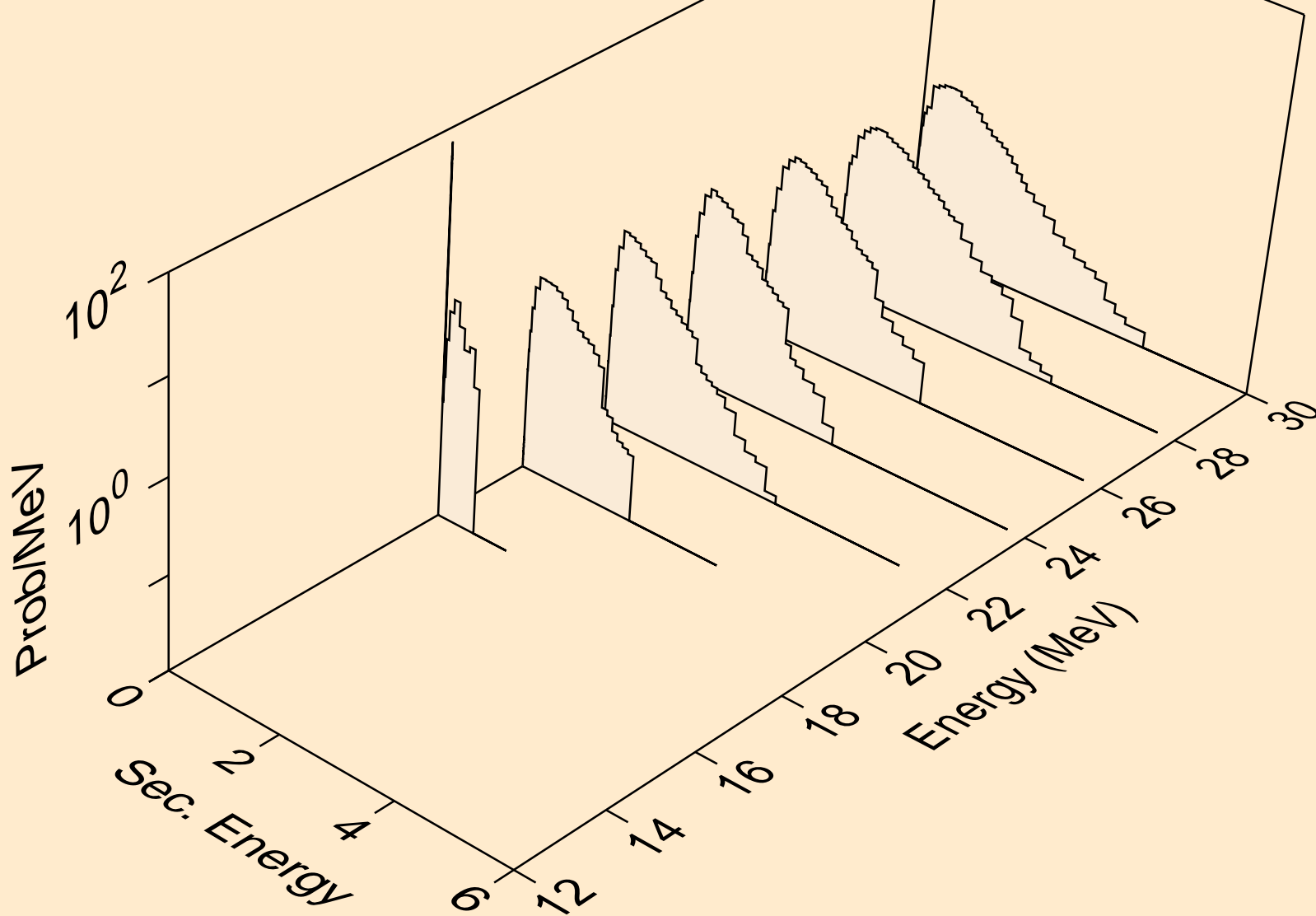




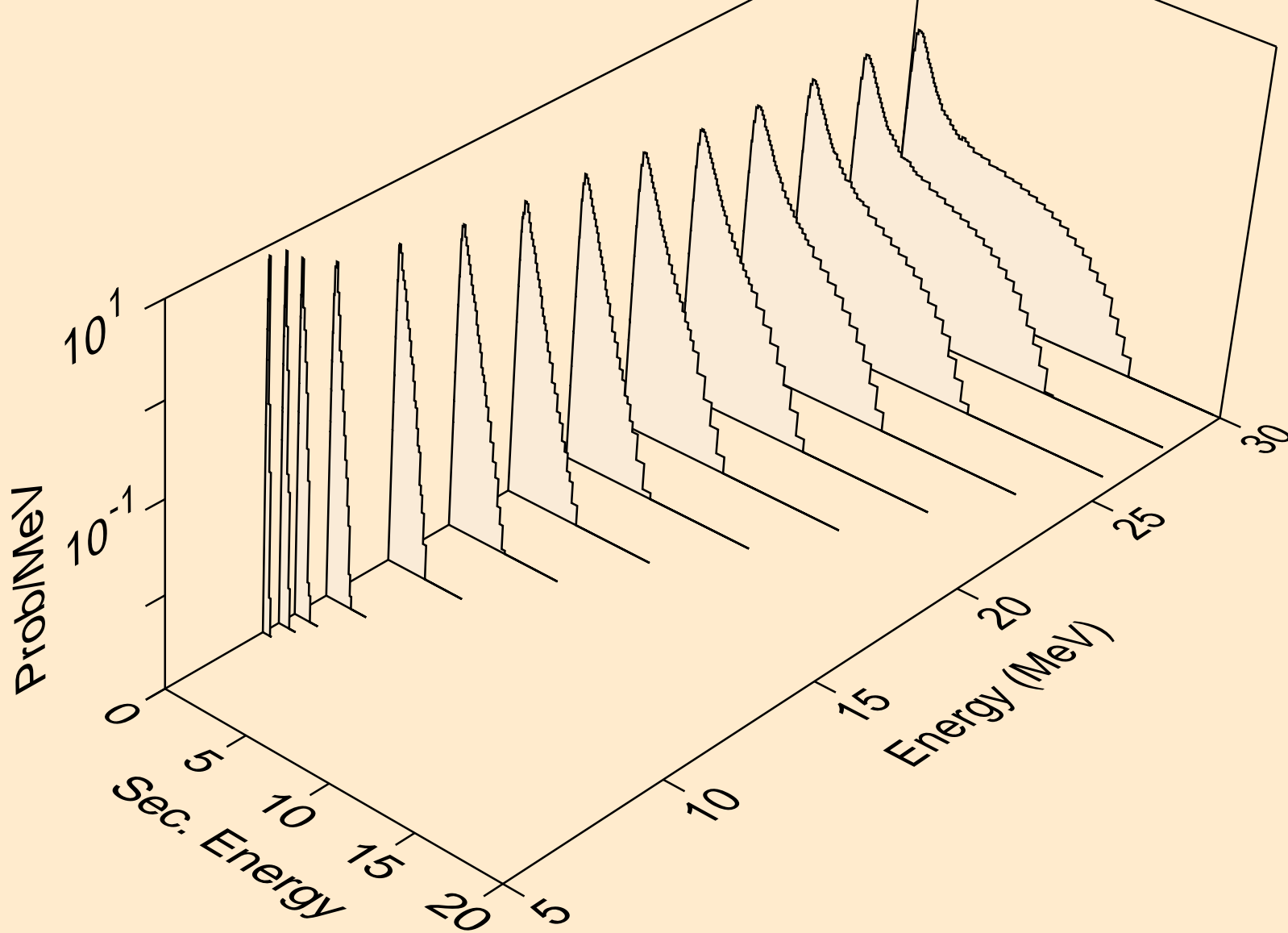
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Neutron emission for (n,2n)a



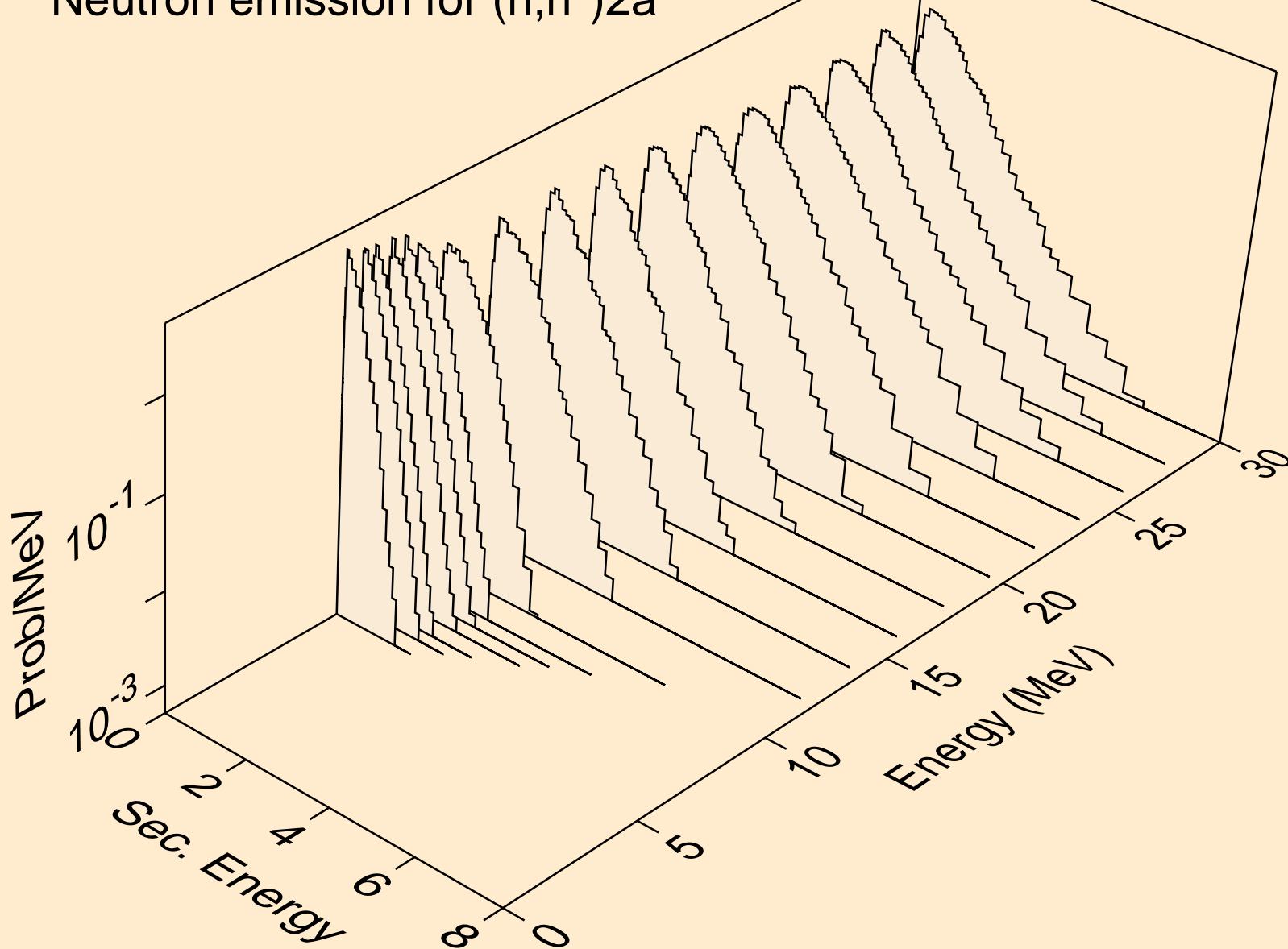
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Neutron emission for (n,3n)a



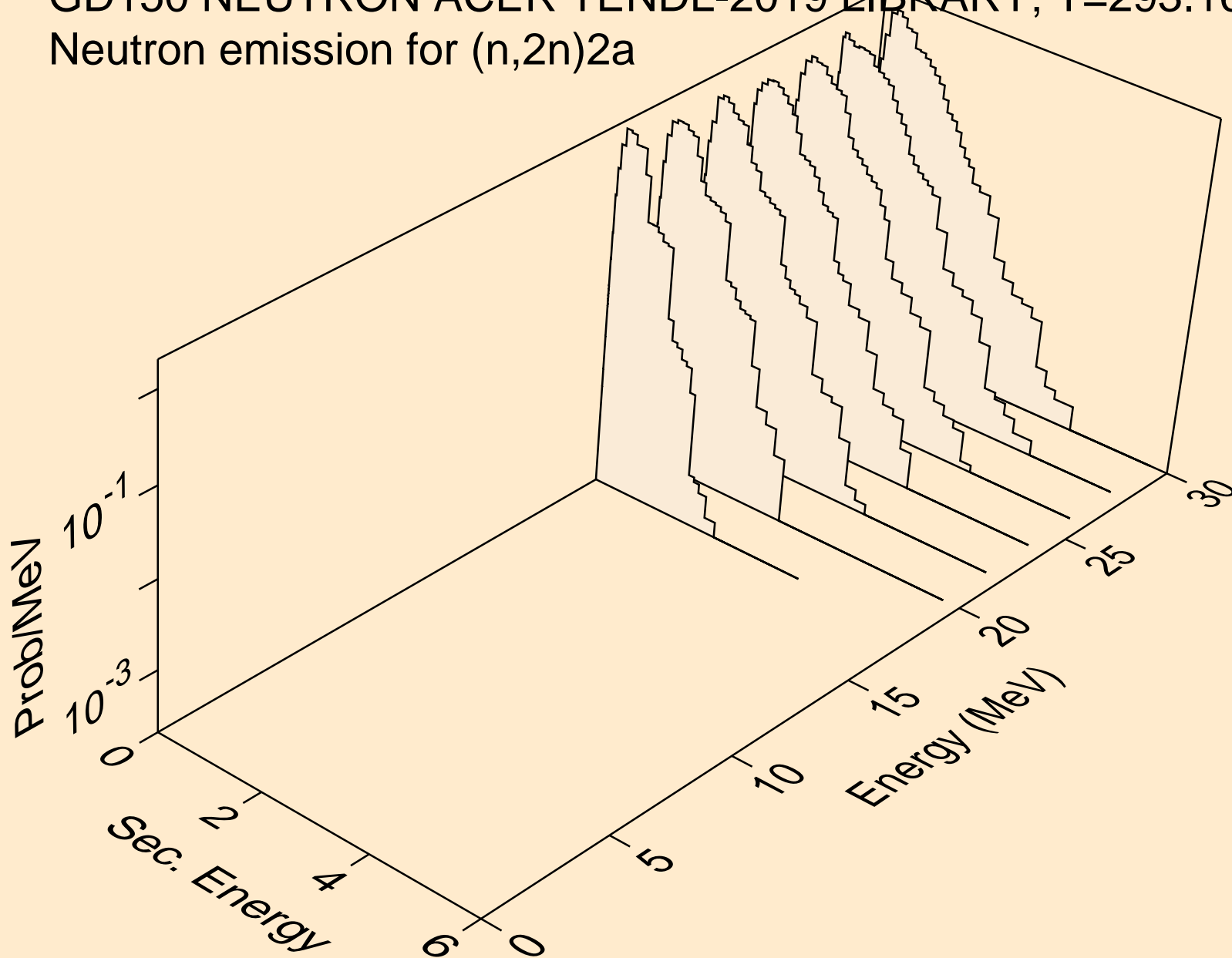
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Neutron emission for (n,n\*)p



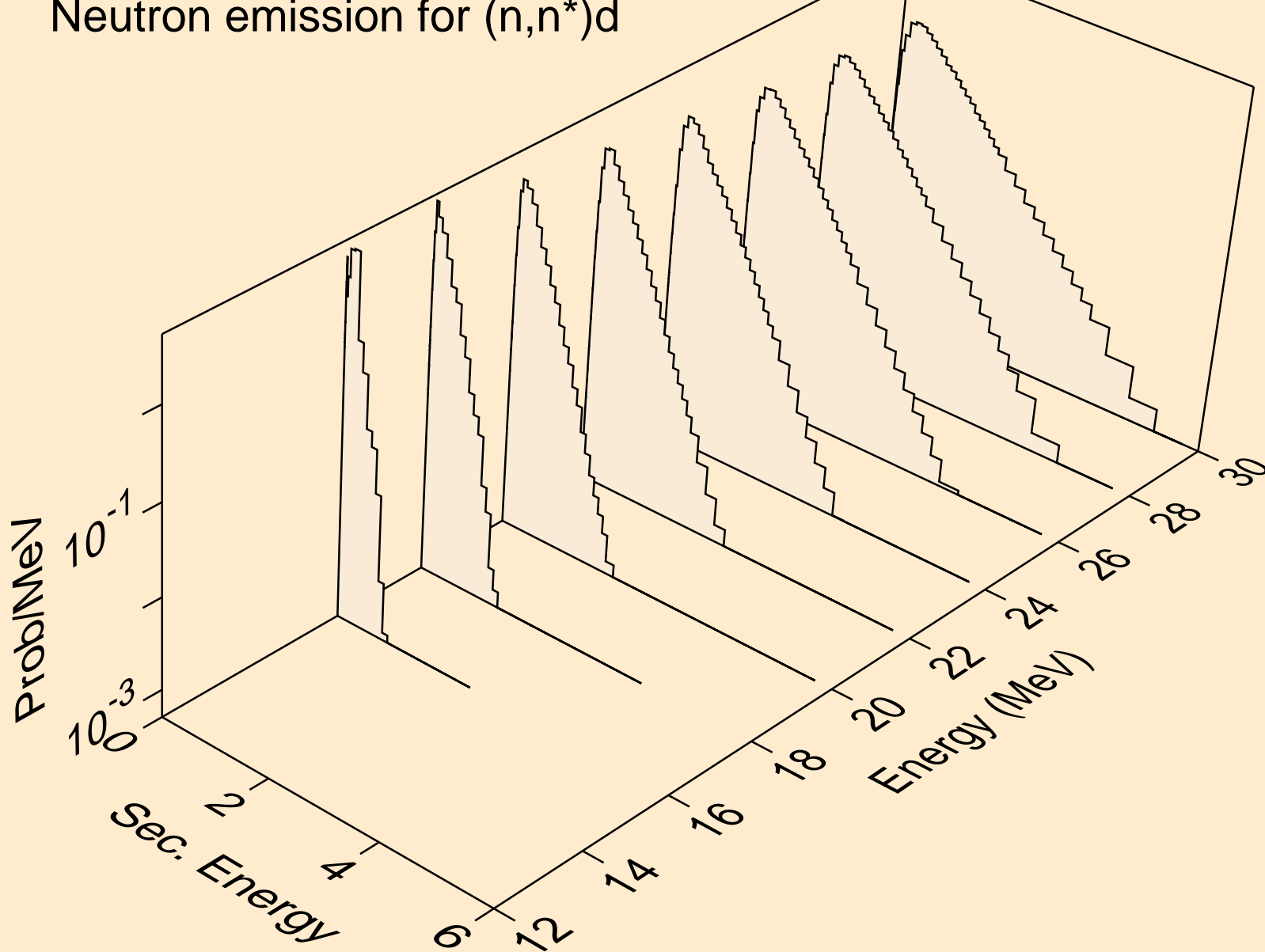
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



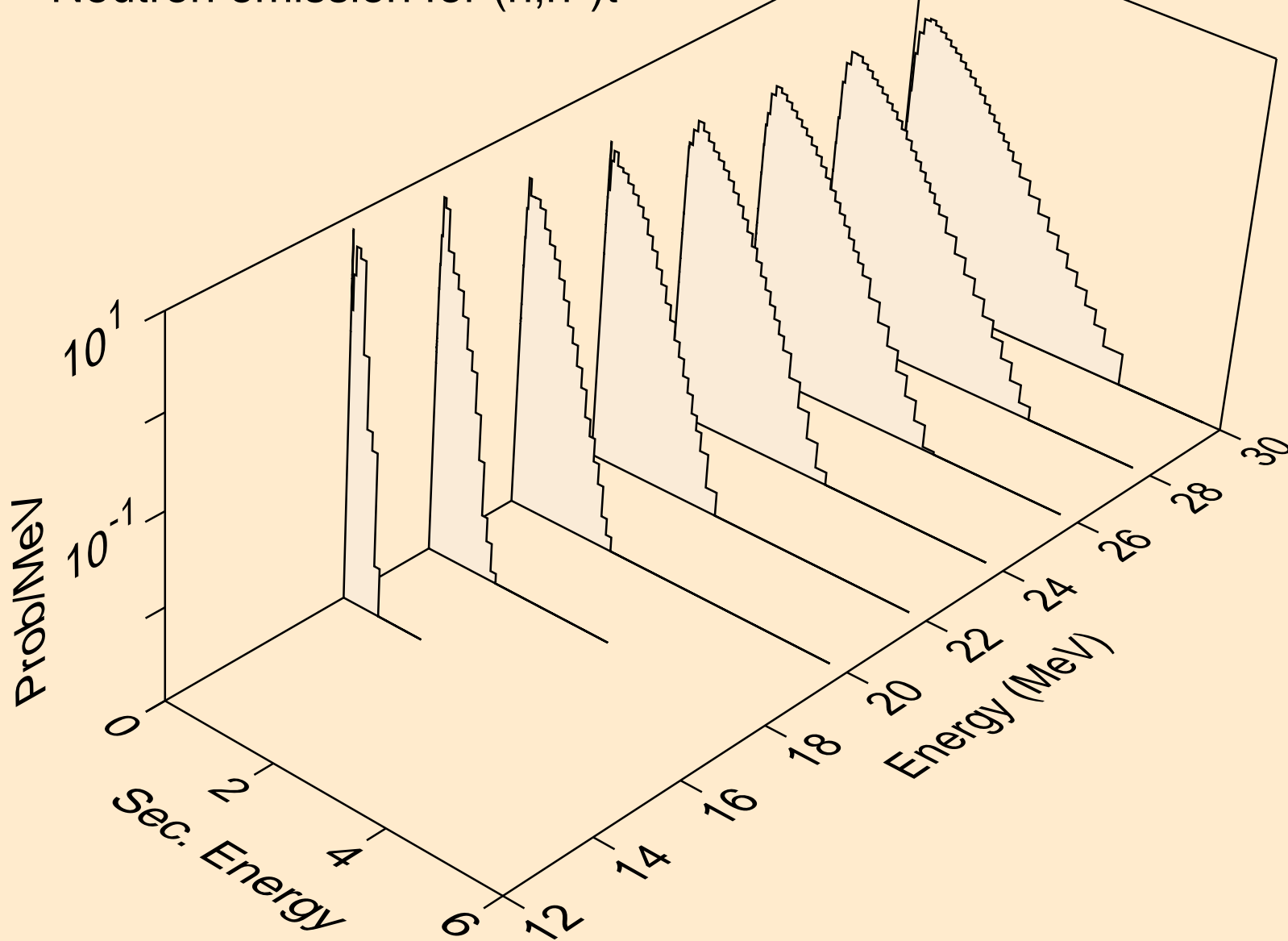
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Neutron emission for (n,2n)2a



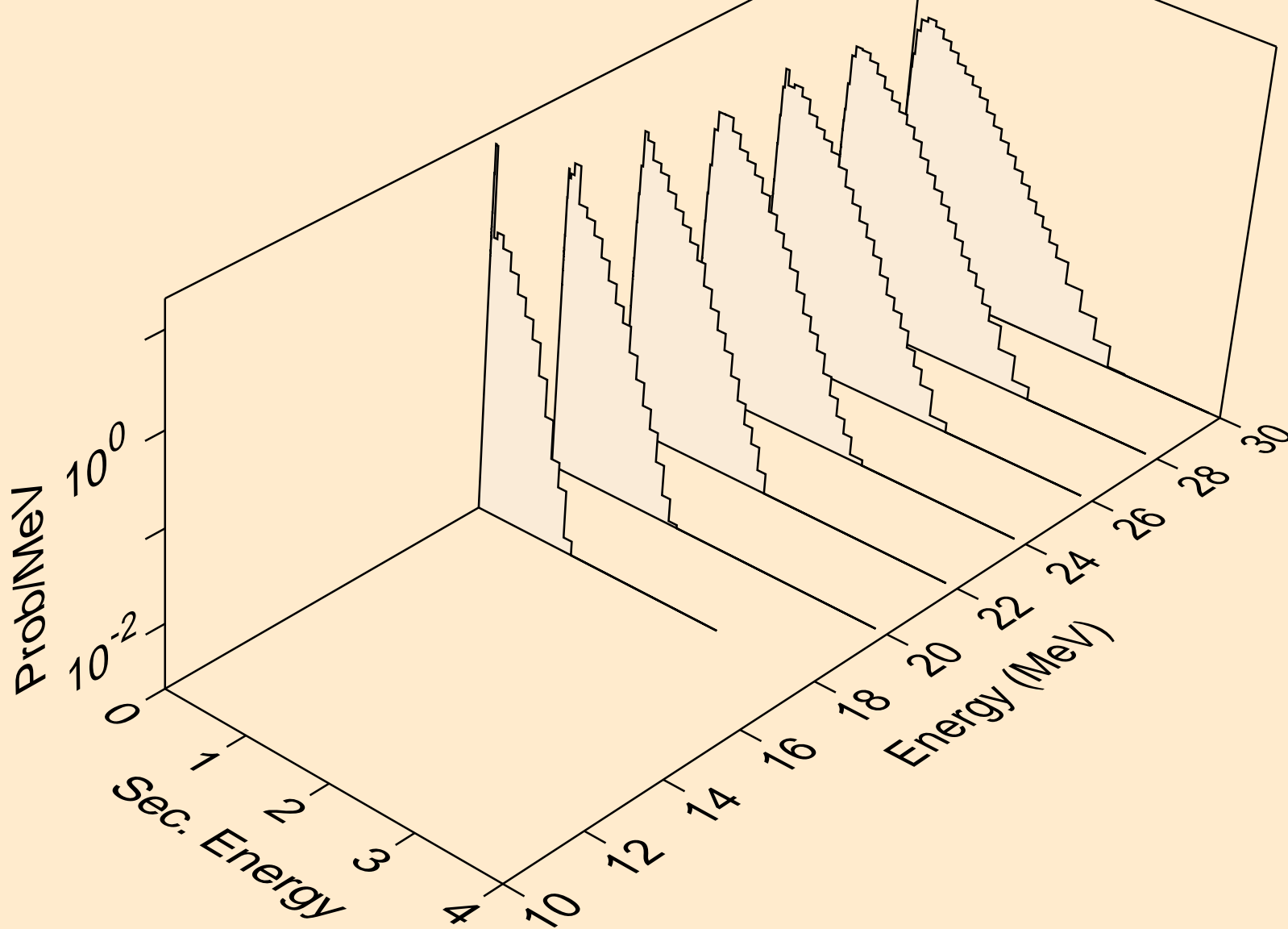
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

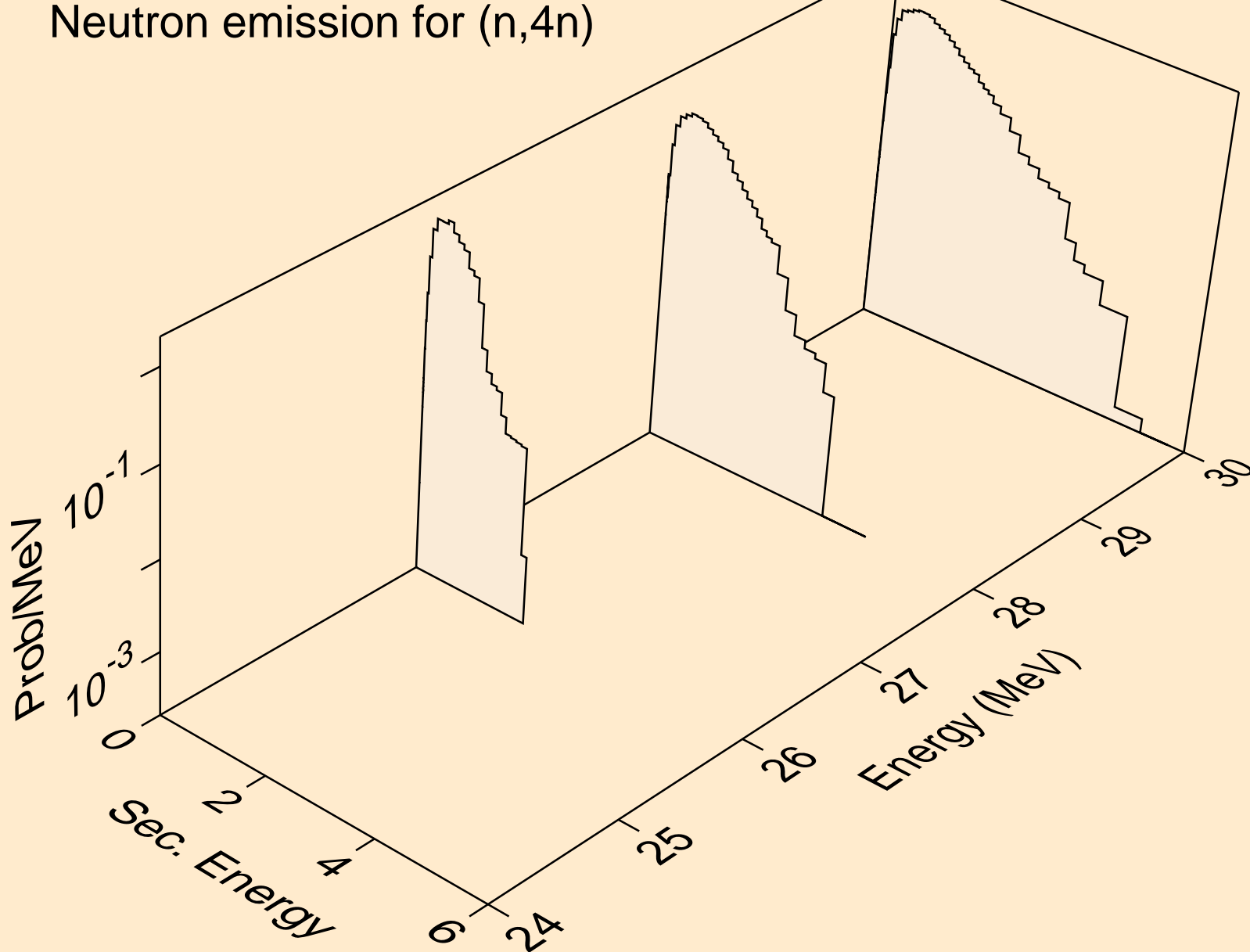


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

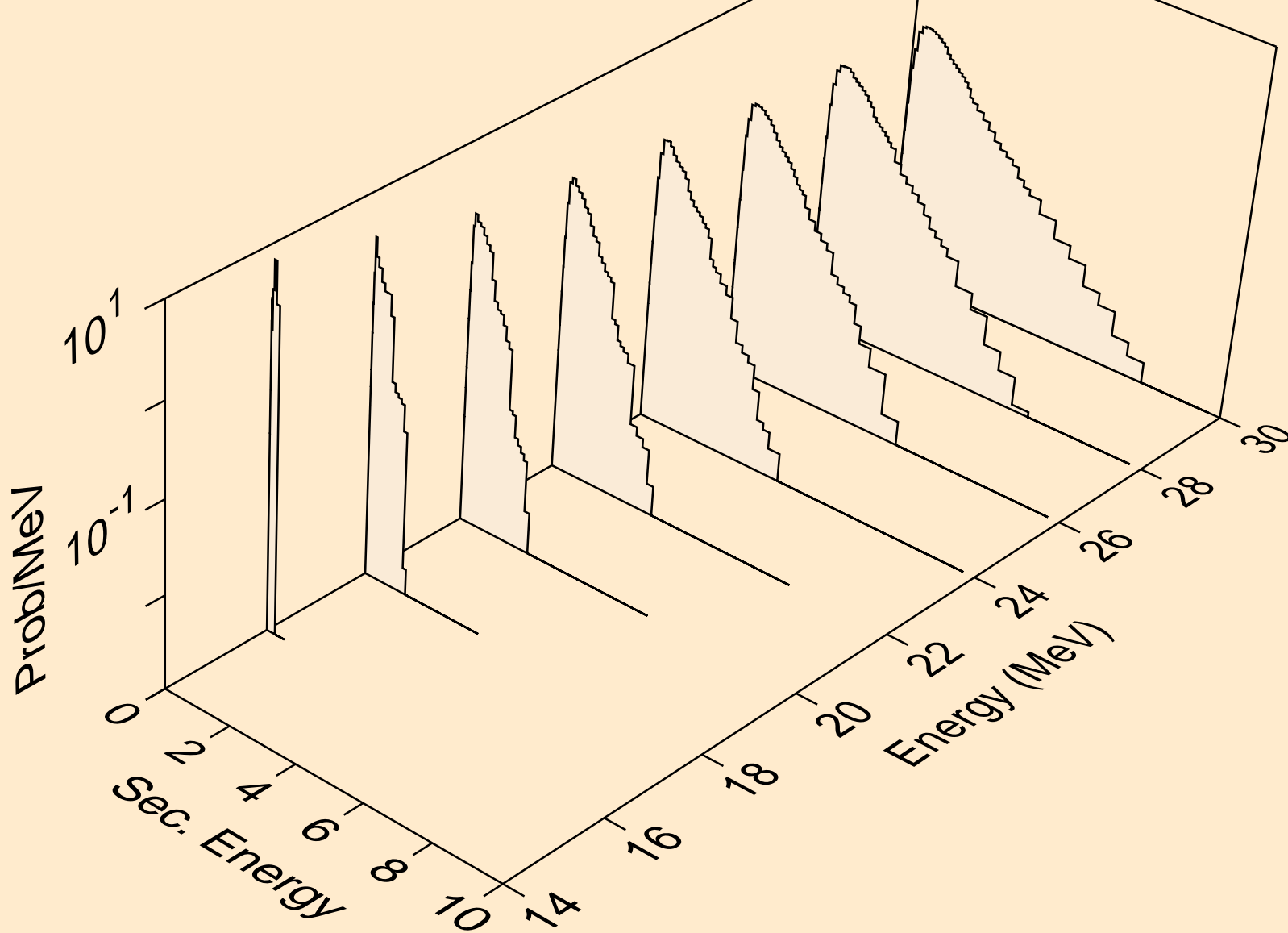




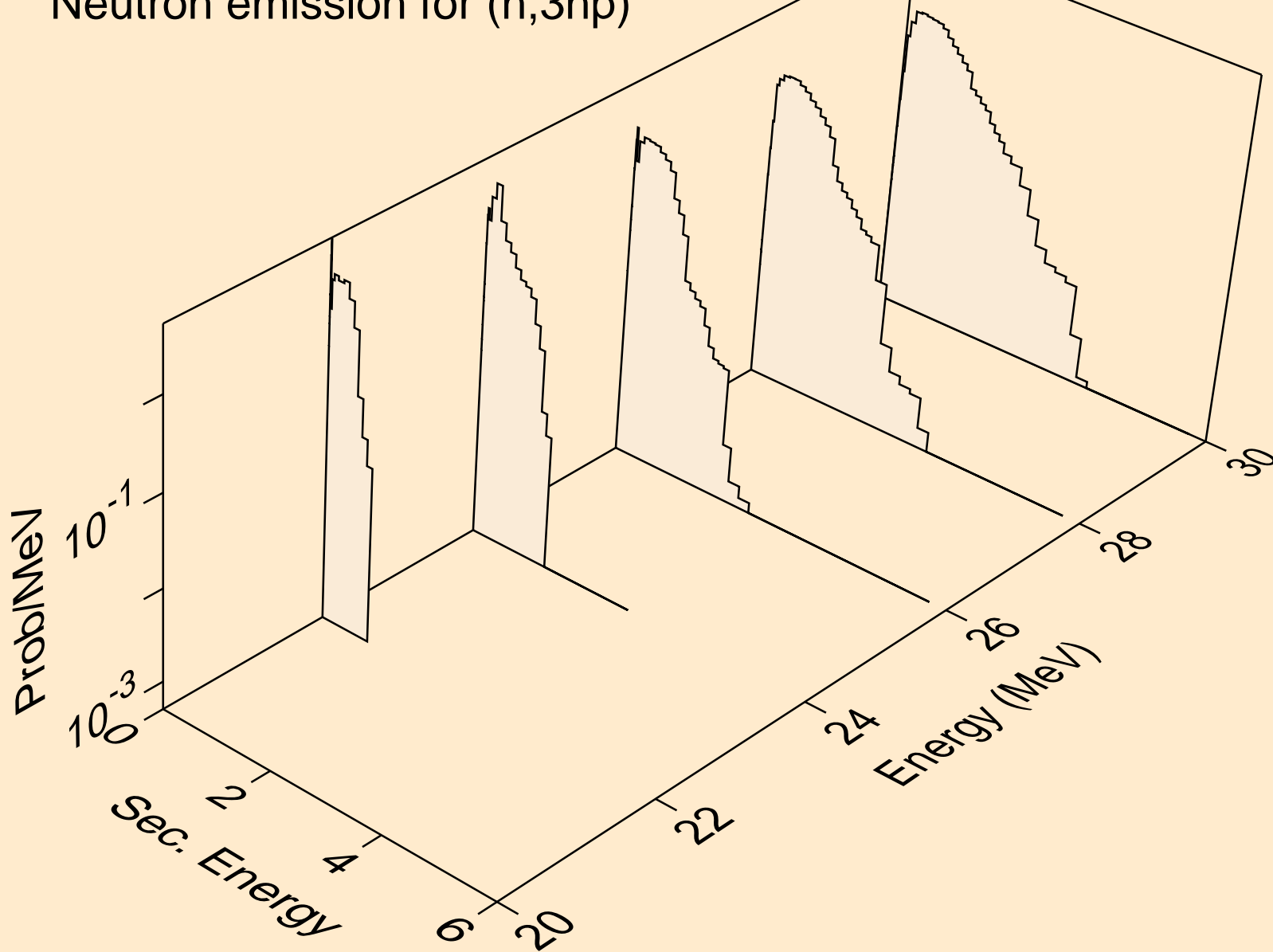
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Neutron emission for (n,4n)



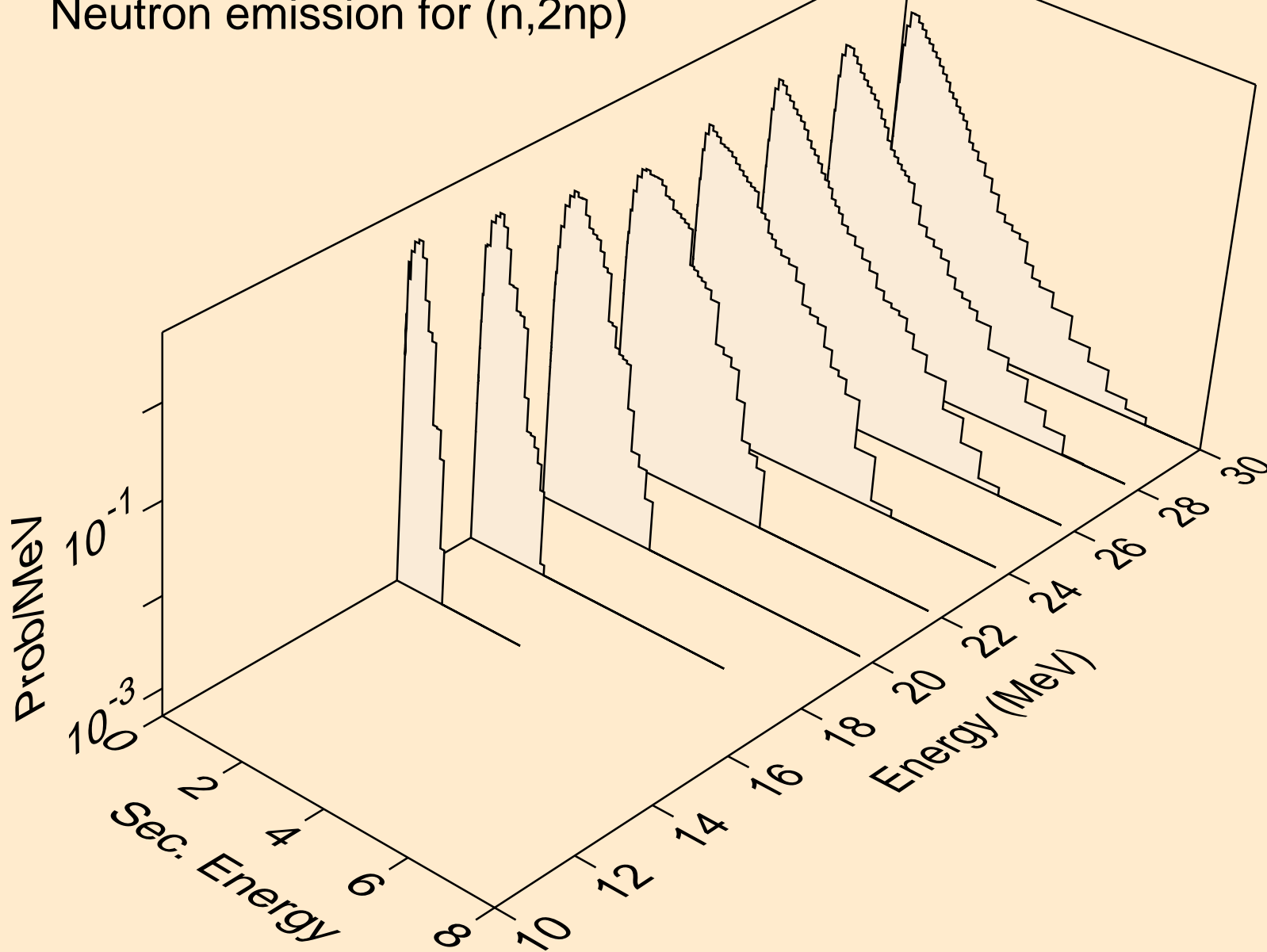
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



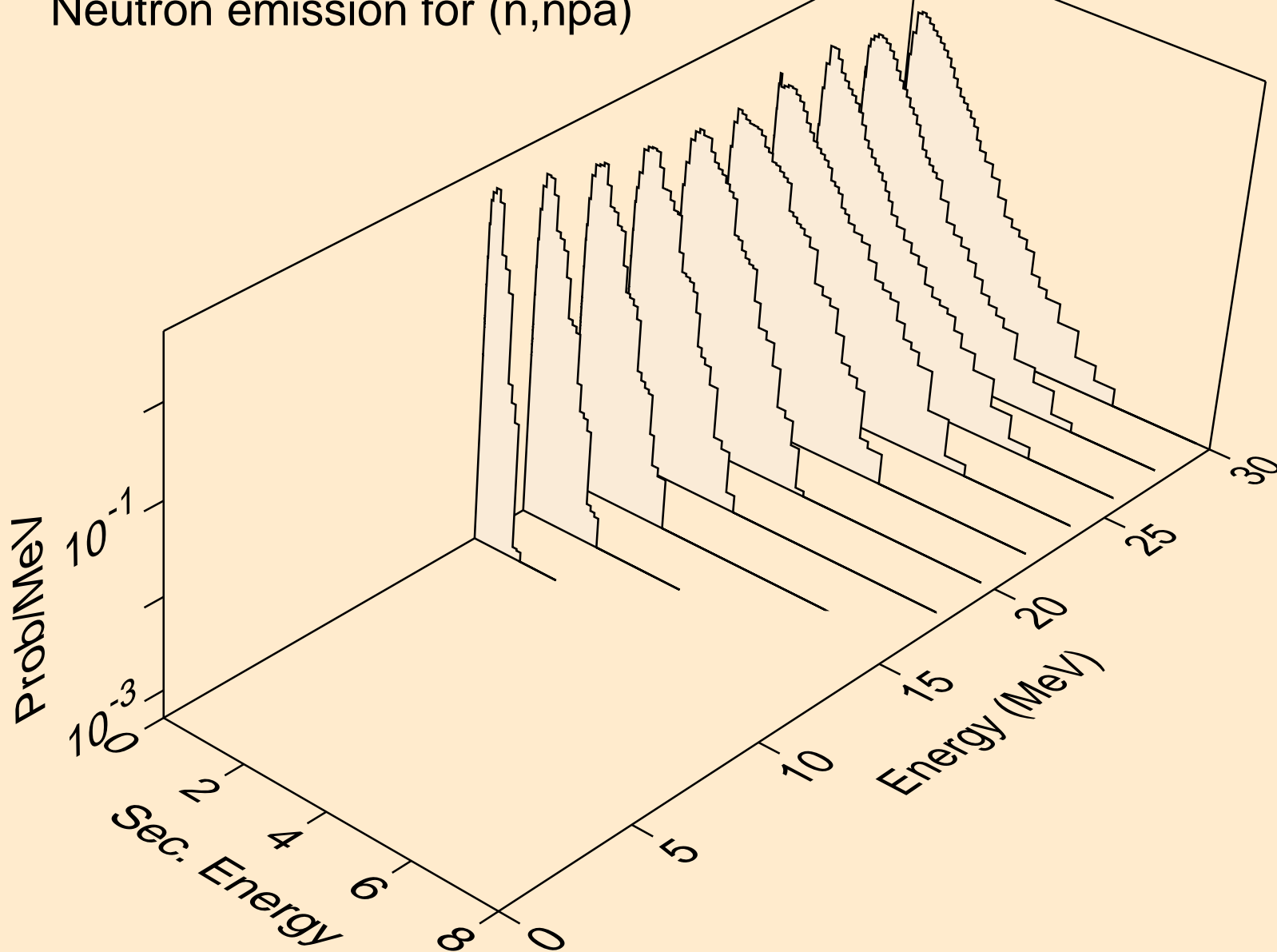
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Neutron emission for (n,3np)



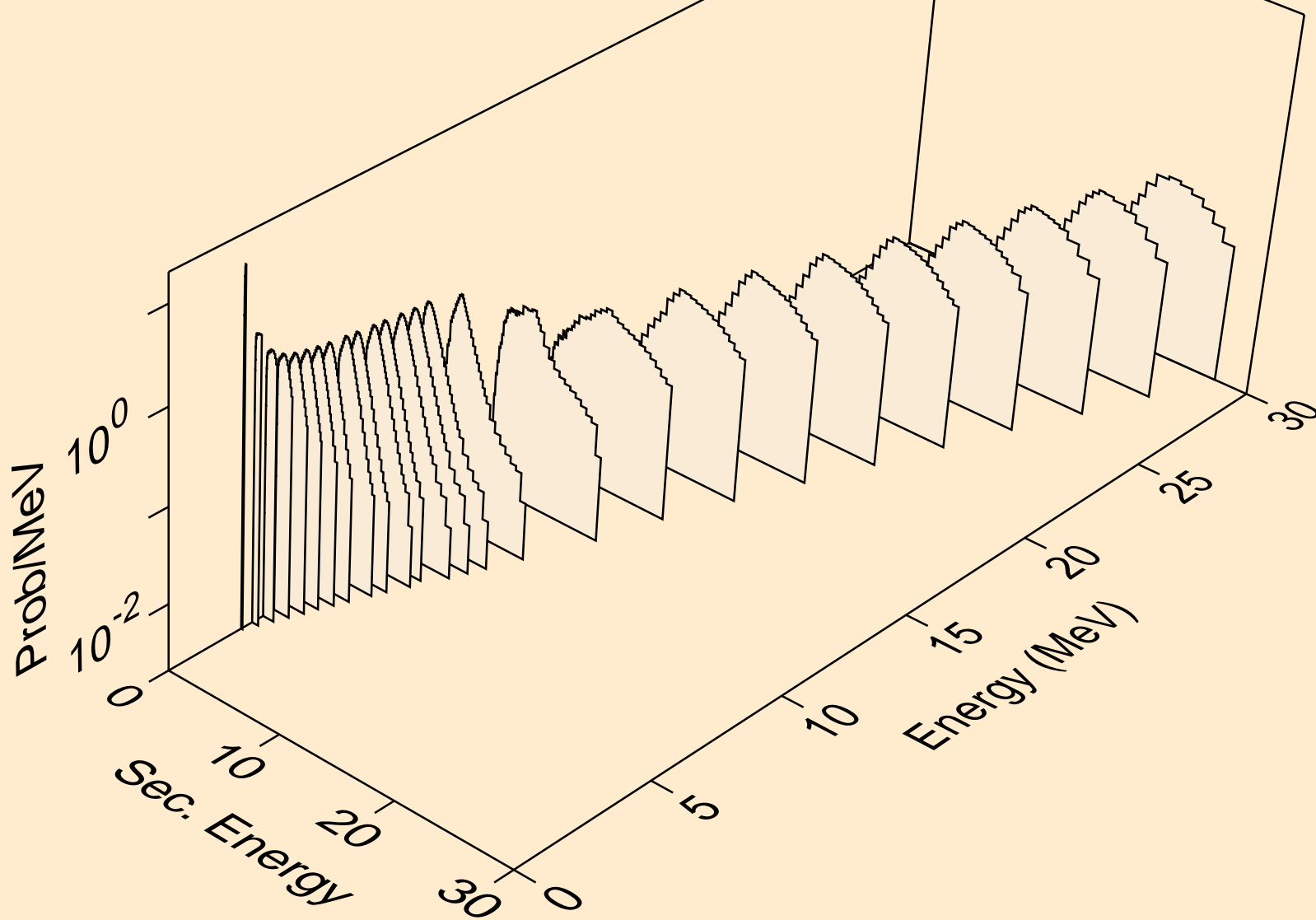
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Neutron emission for (n,2np)



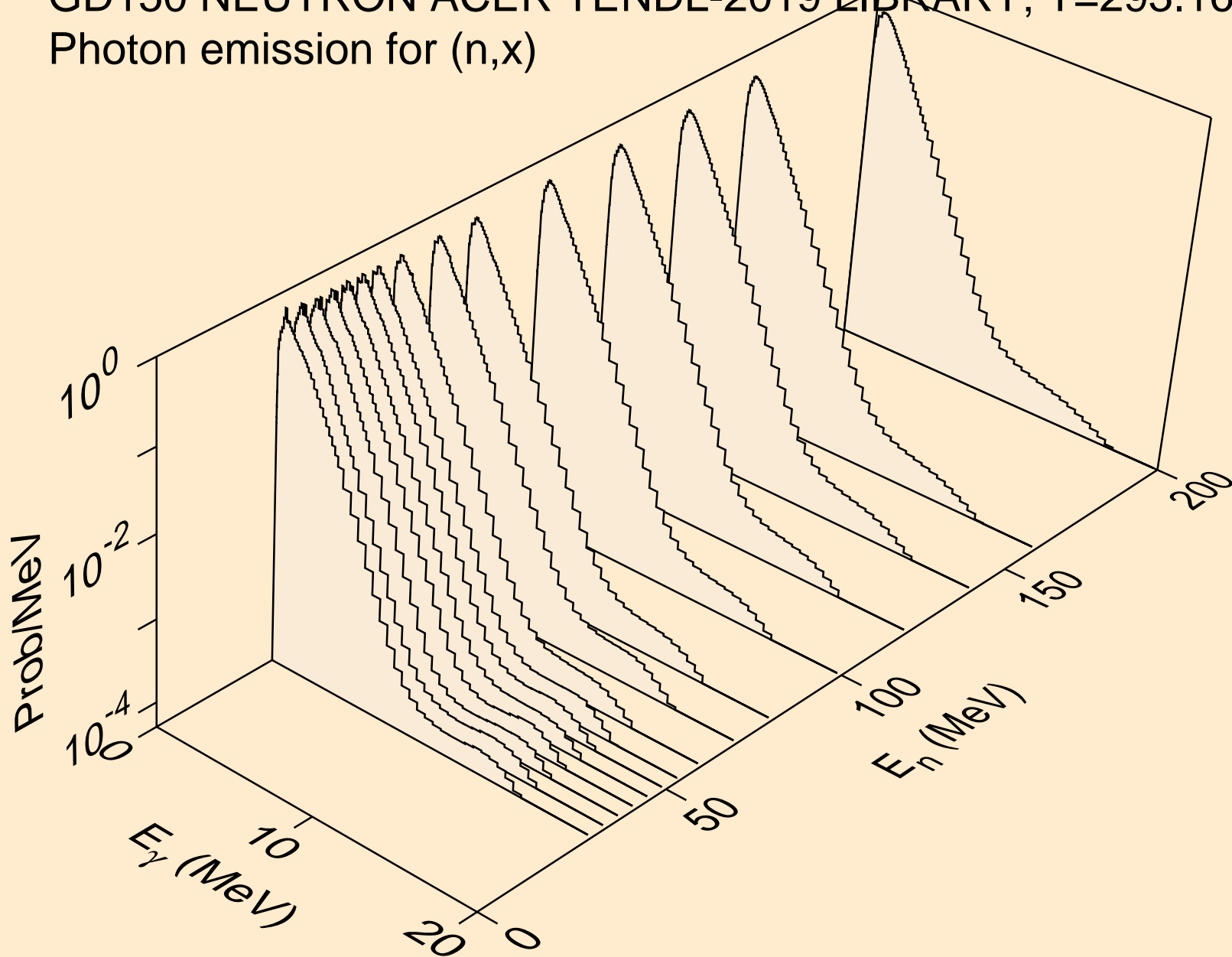
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Neutron emission for (n,npa)



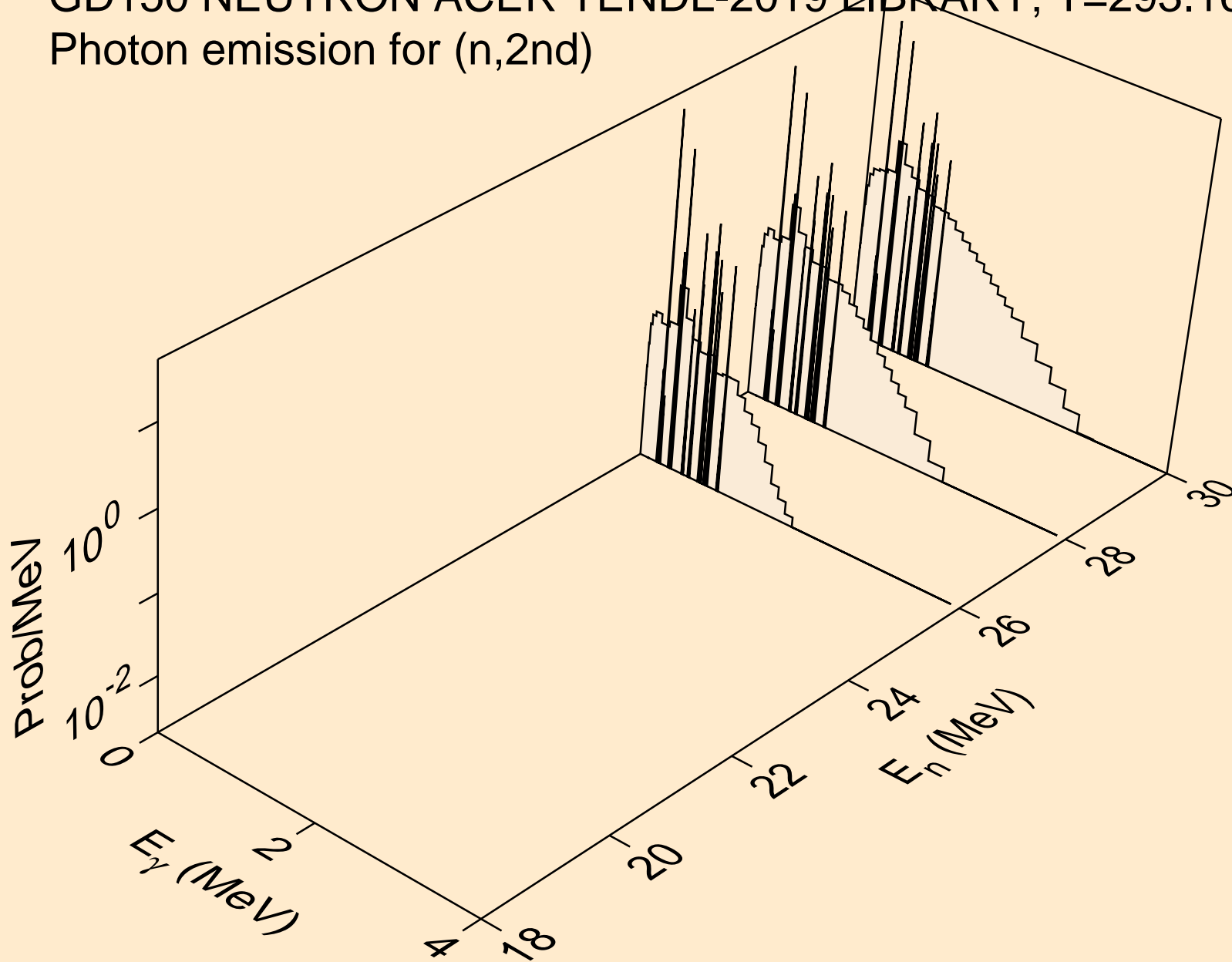
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

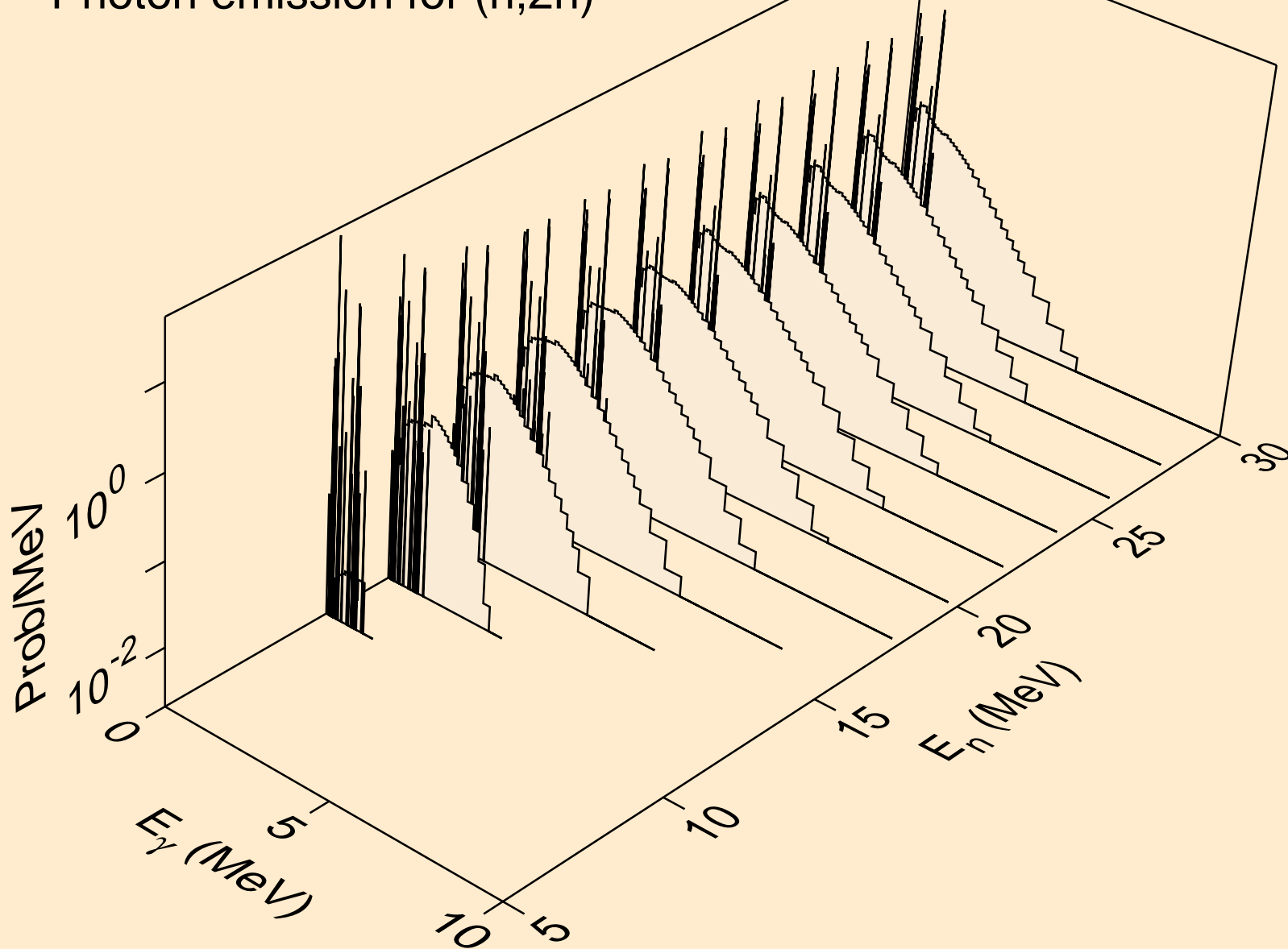


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Photon emission for (n,2nd)

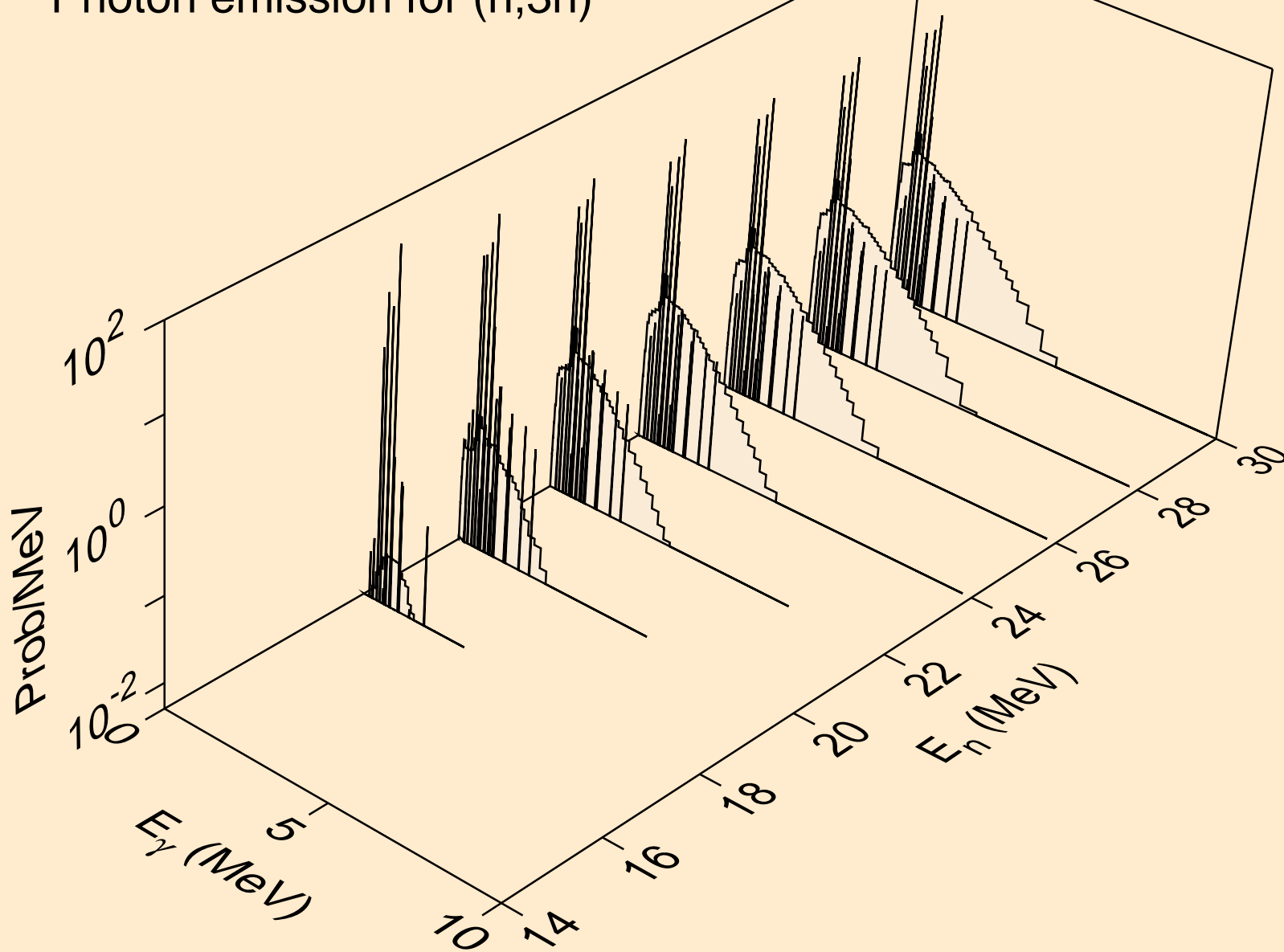




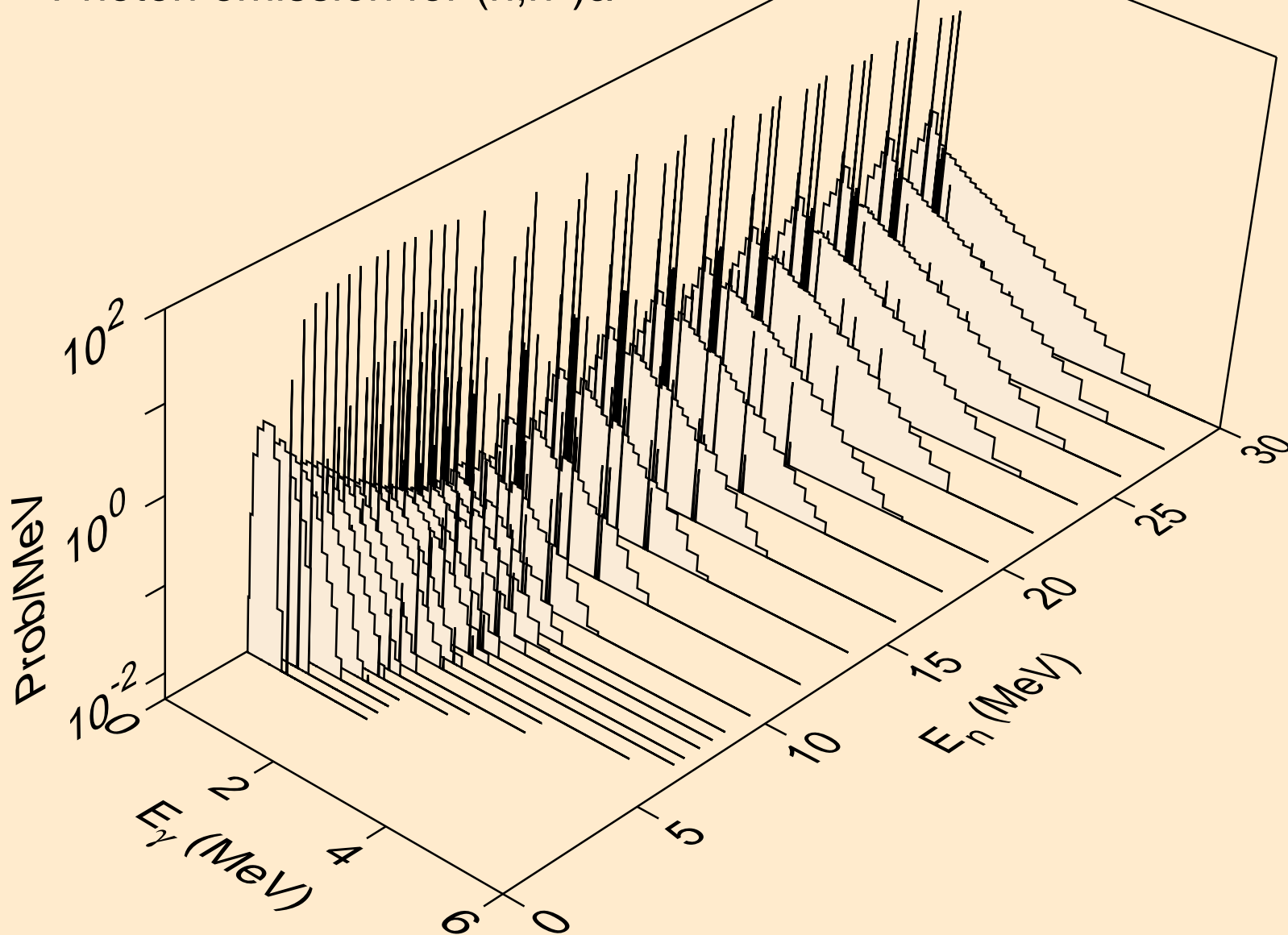
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Photon emission for (n,2n)



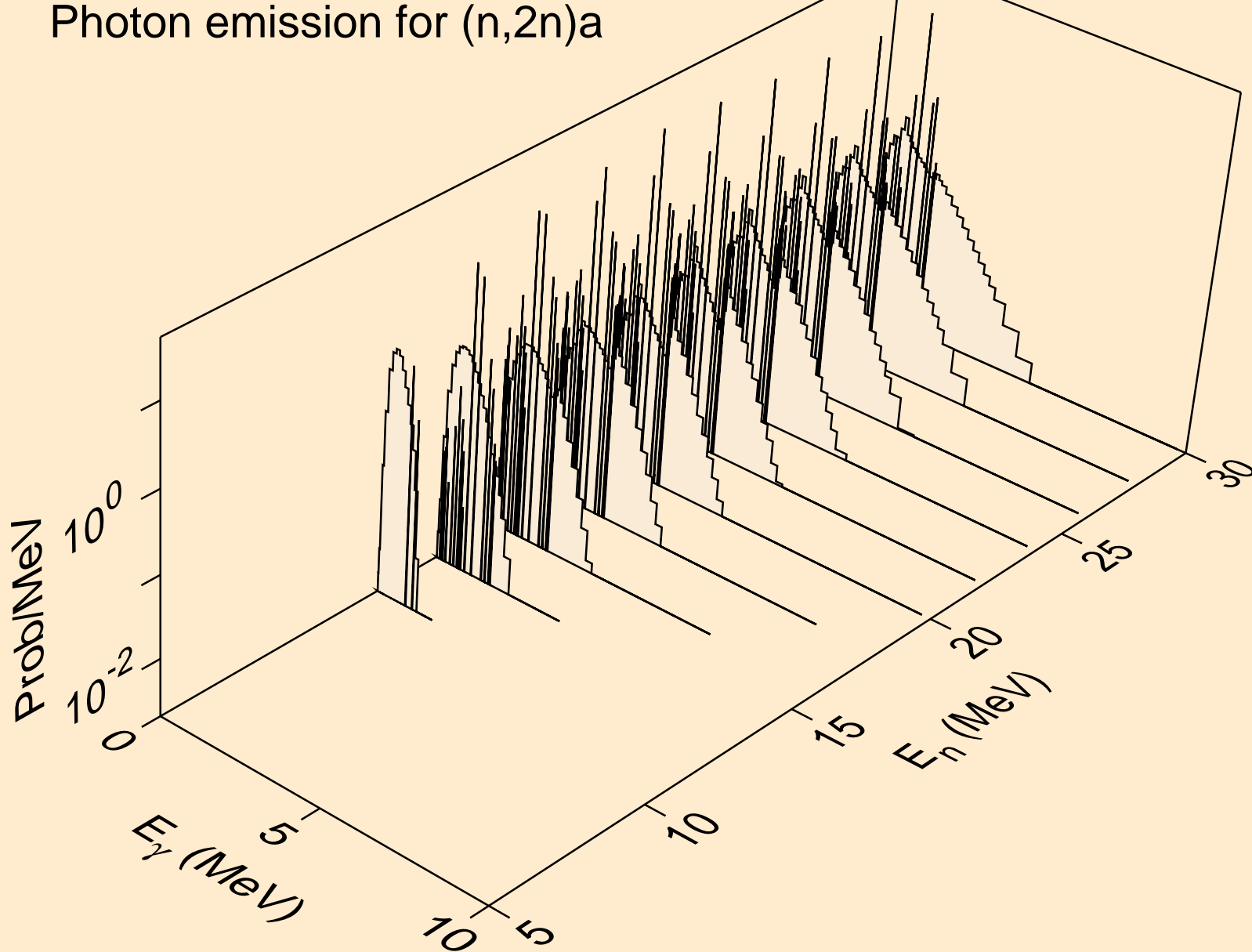
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Photon emission for (n,3n)



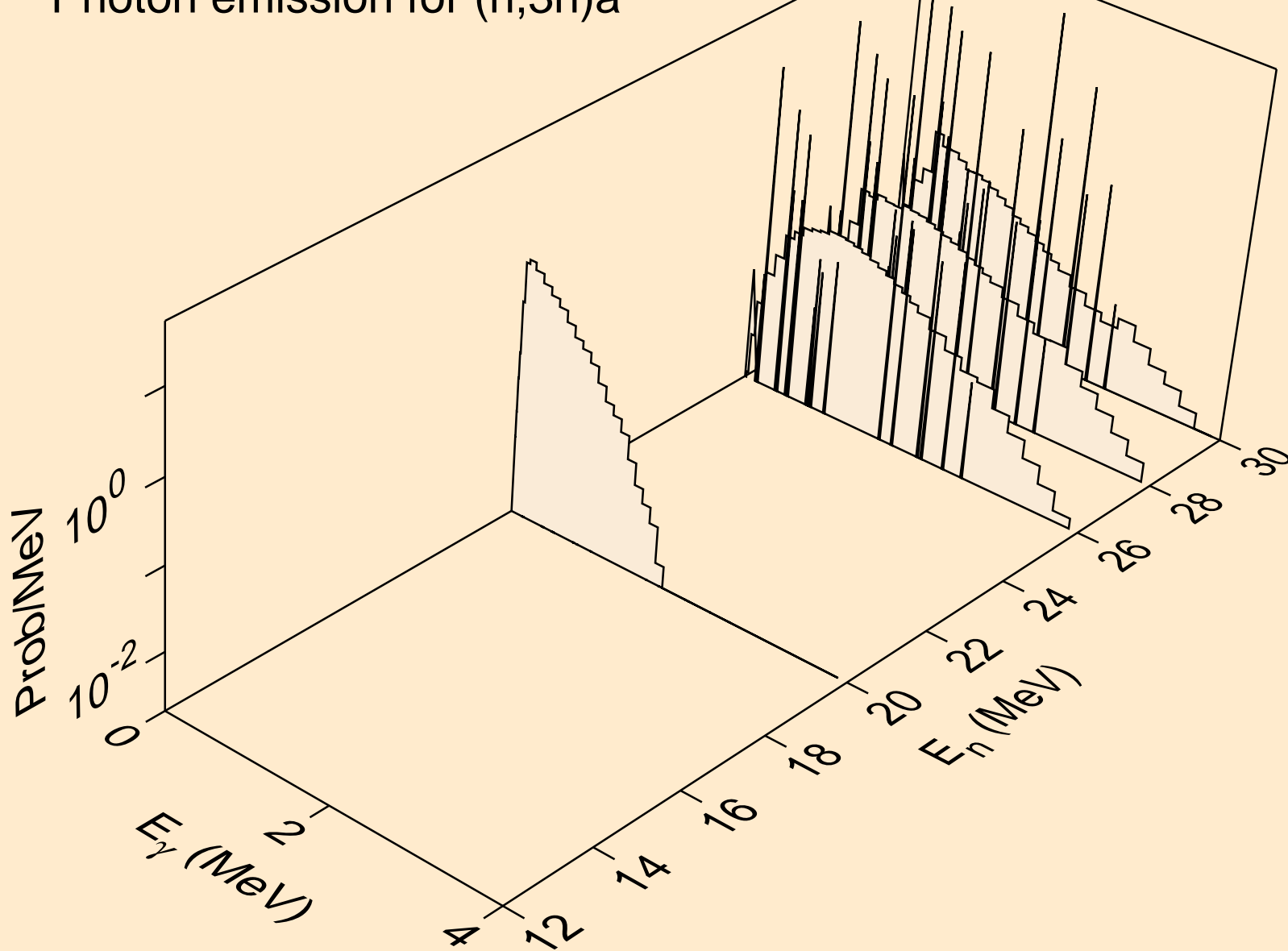
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Photon emission for (n,n\*)a



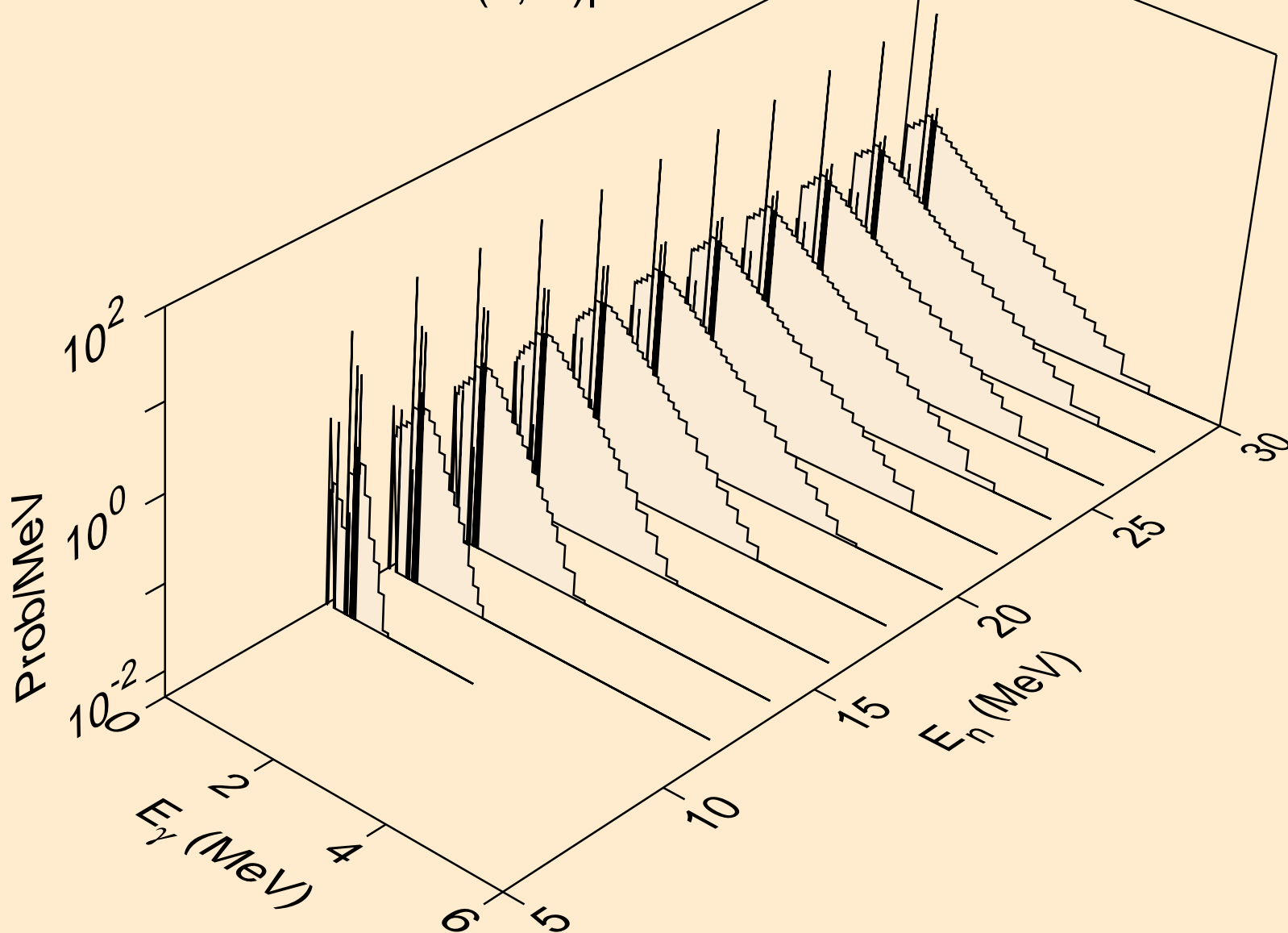
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Photon emission for (n,2n)a



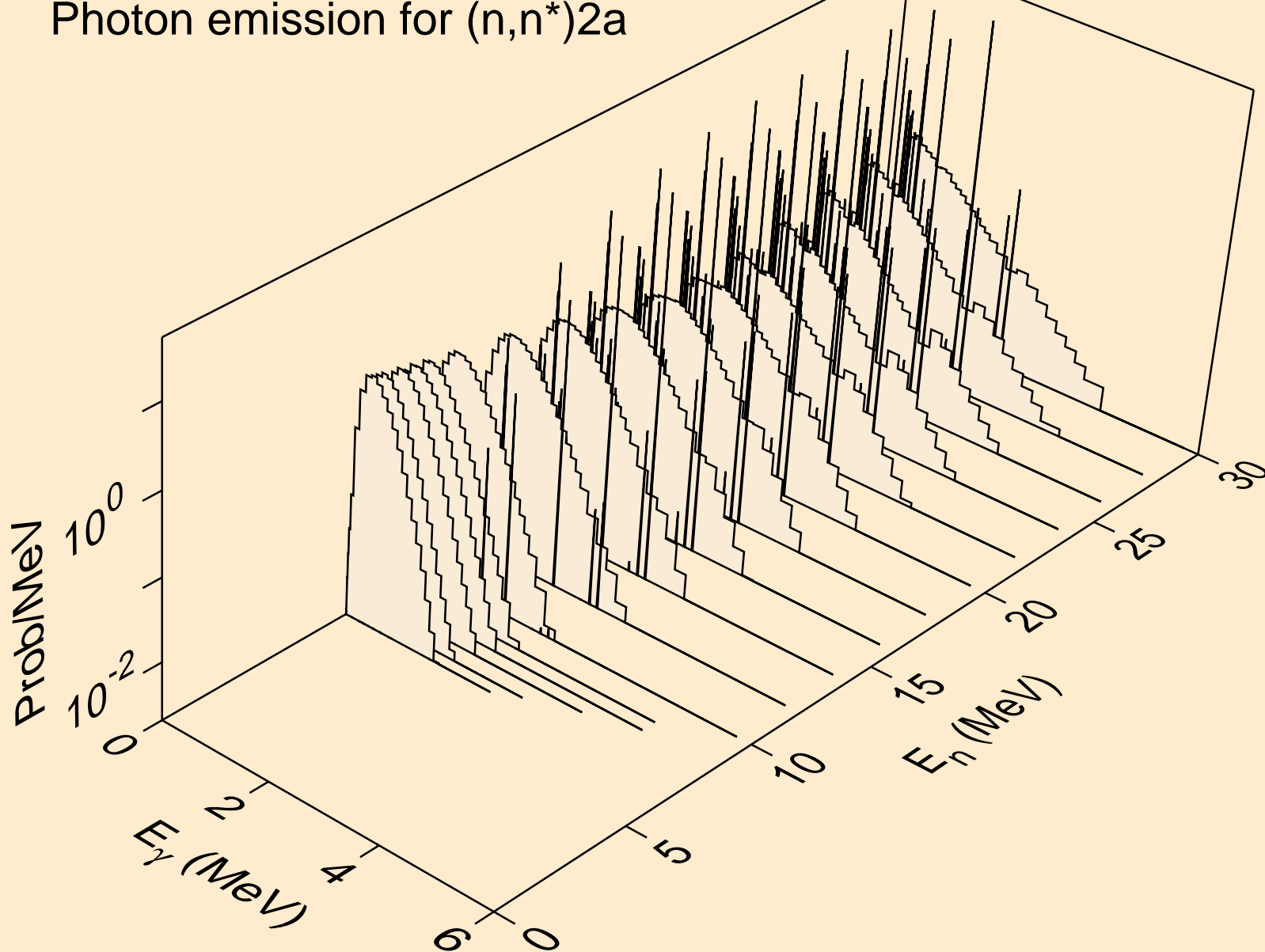
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Photon emission for (n,3n)a



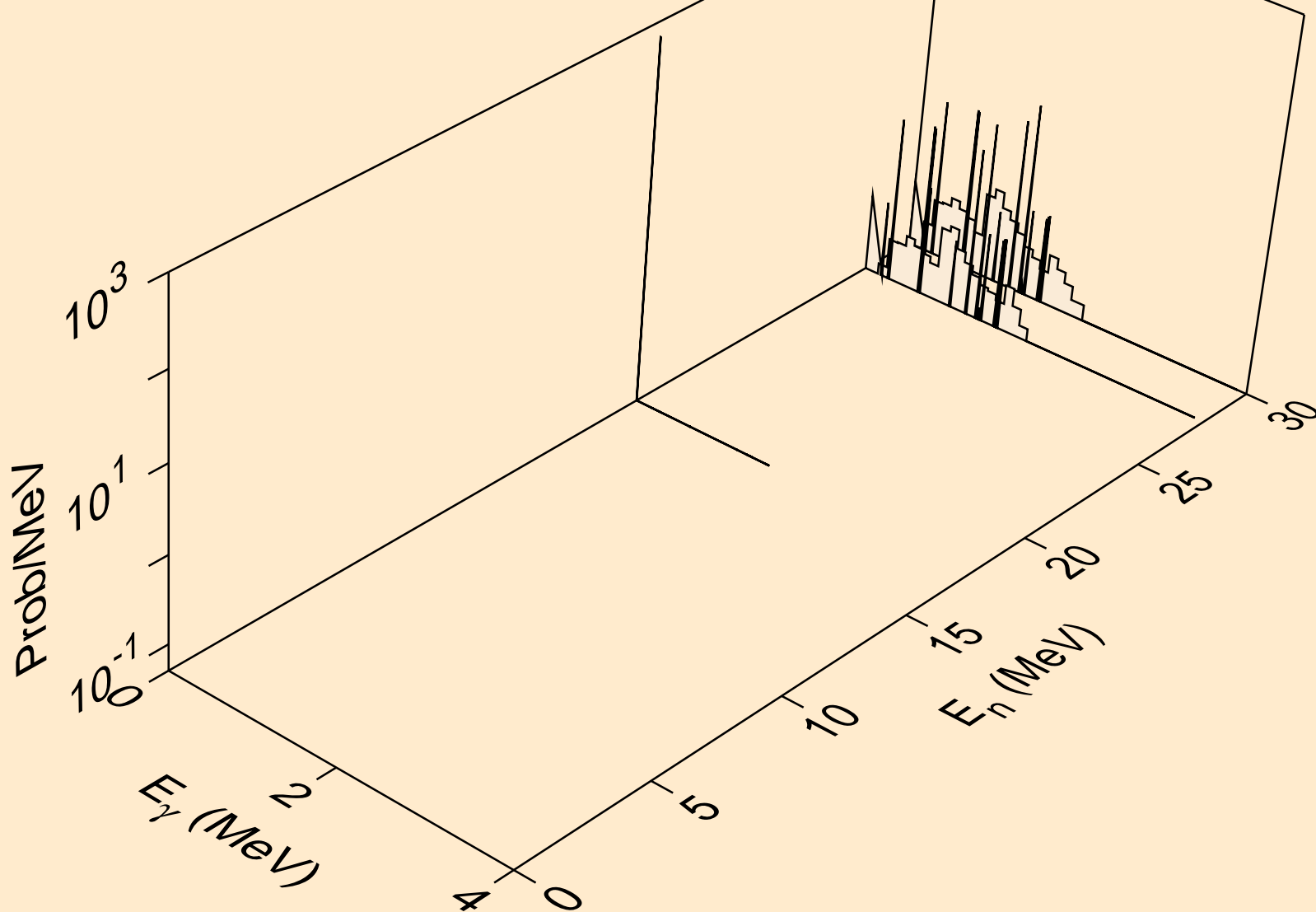
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Photon emission for (n,n\*)p



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a

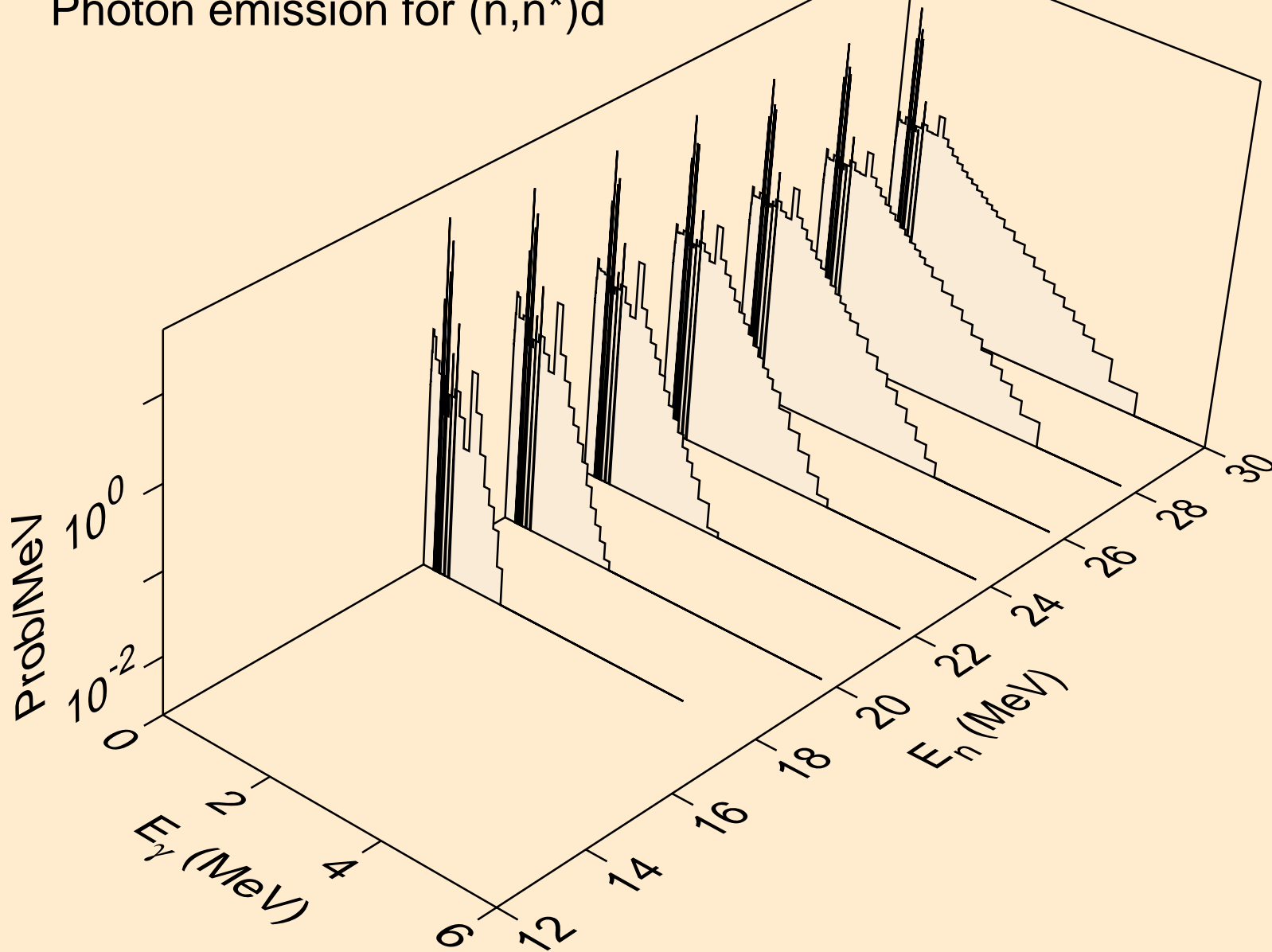


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Photon emission for (n,2n)2a

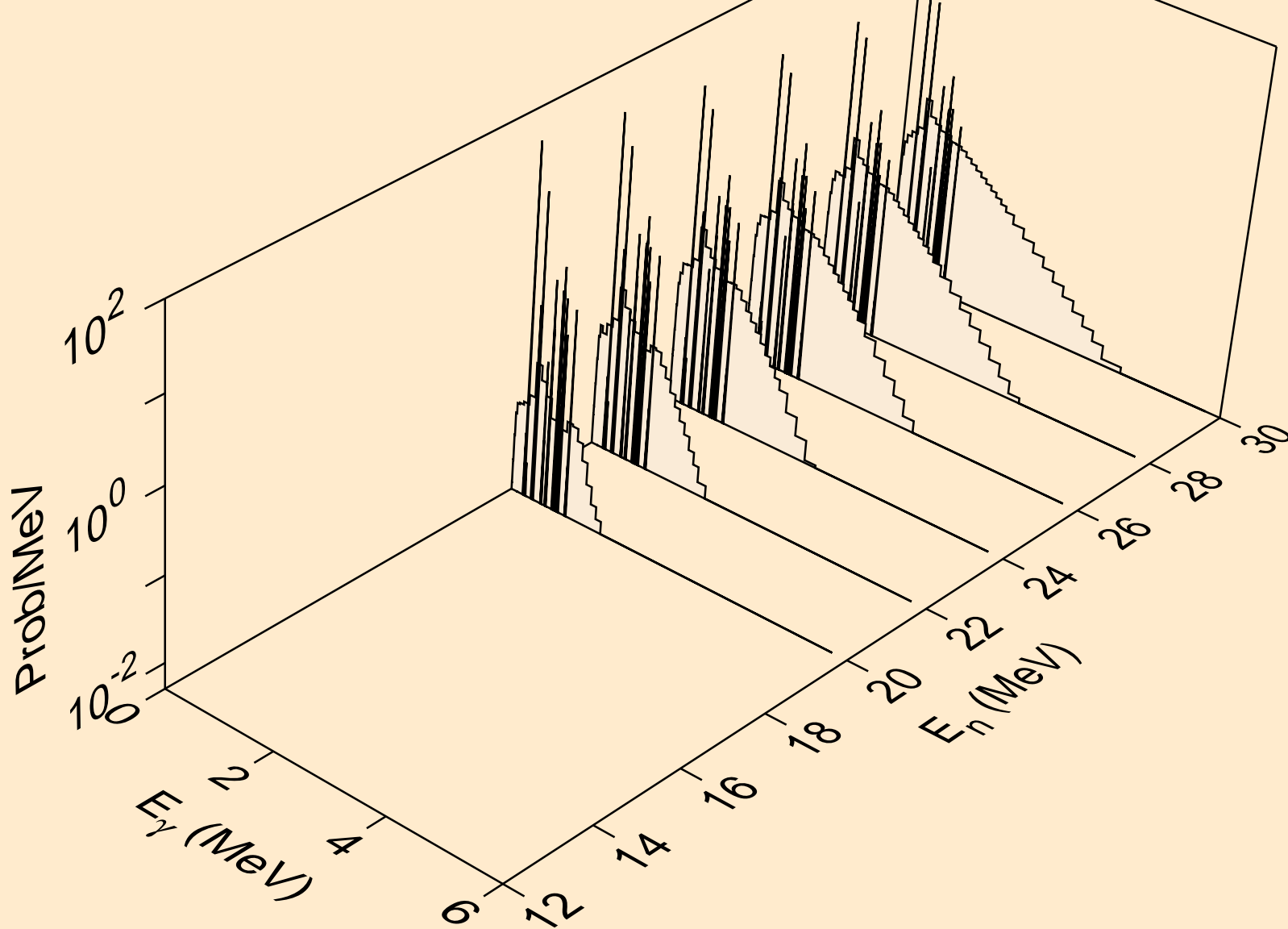




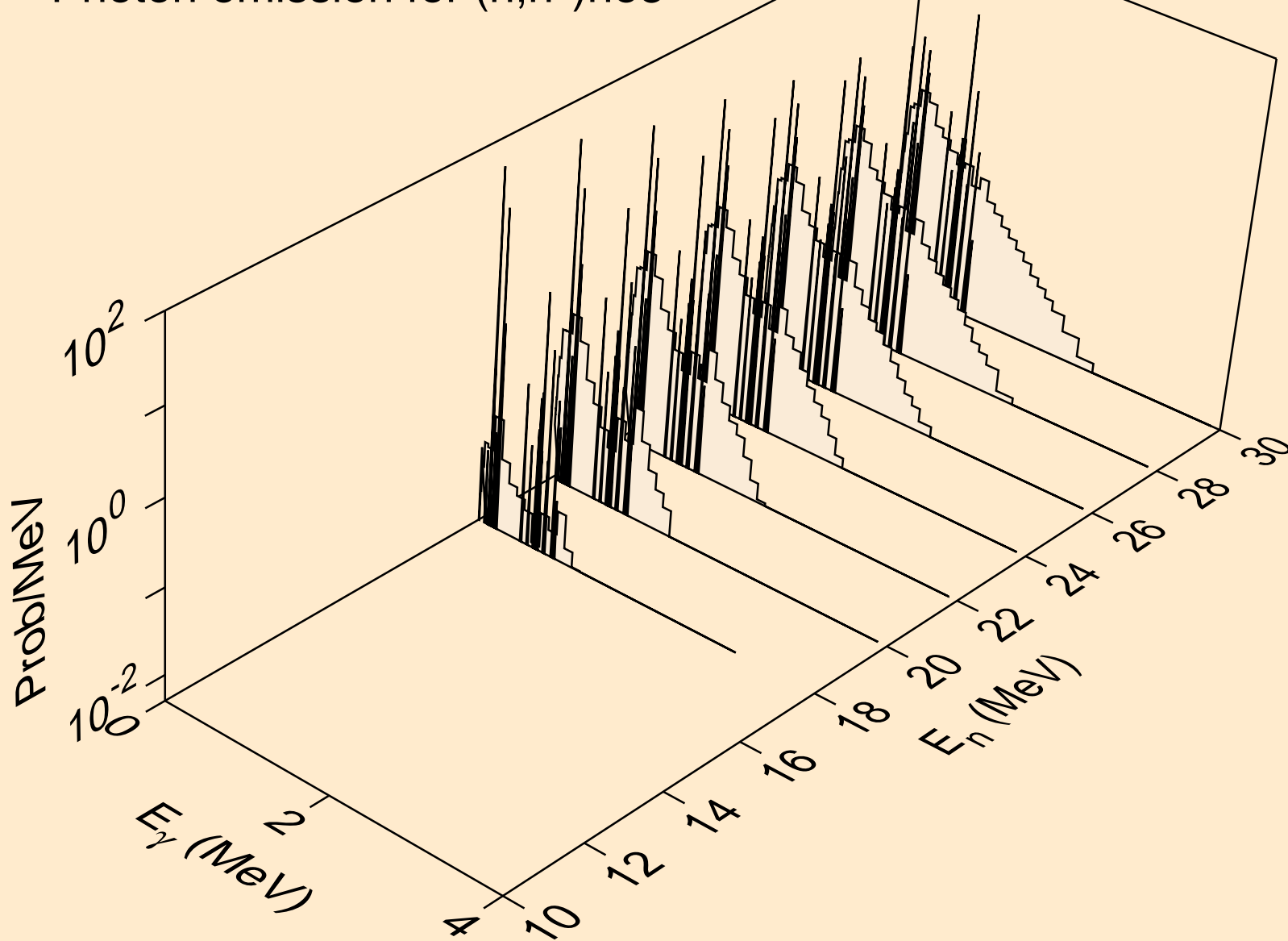
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Photon emission for (n,n\*)d



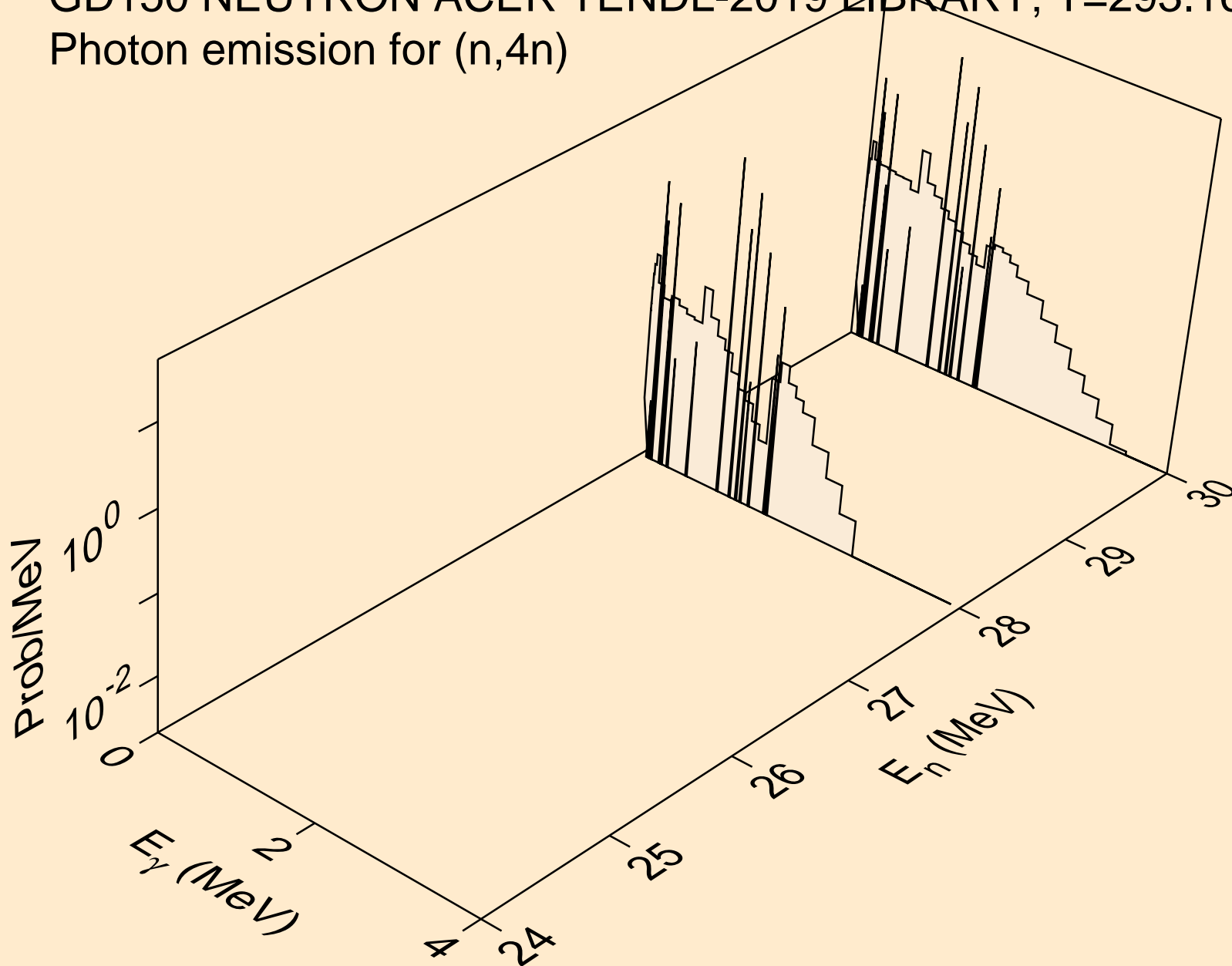
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Photon emission for (n,n\*)t



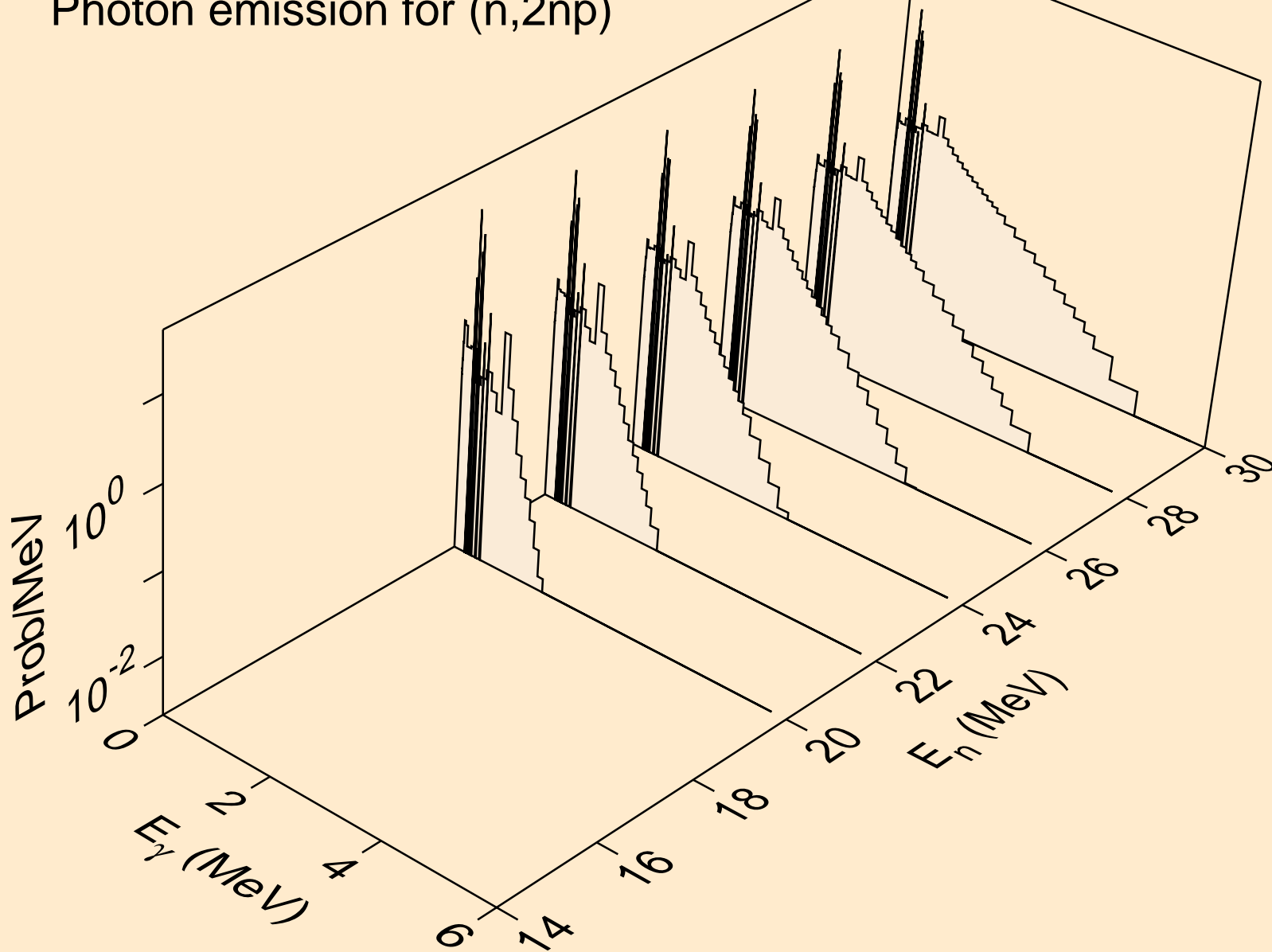
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Photon emission for (n,n\*)he3



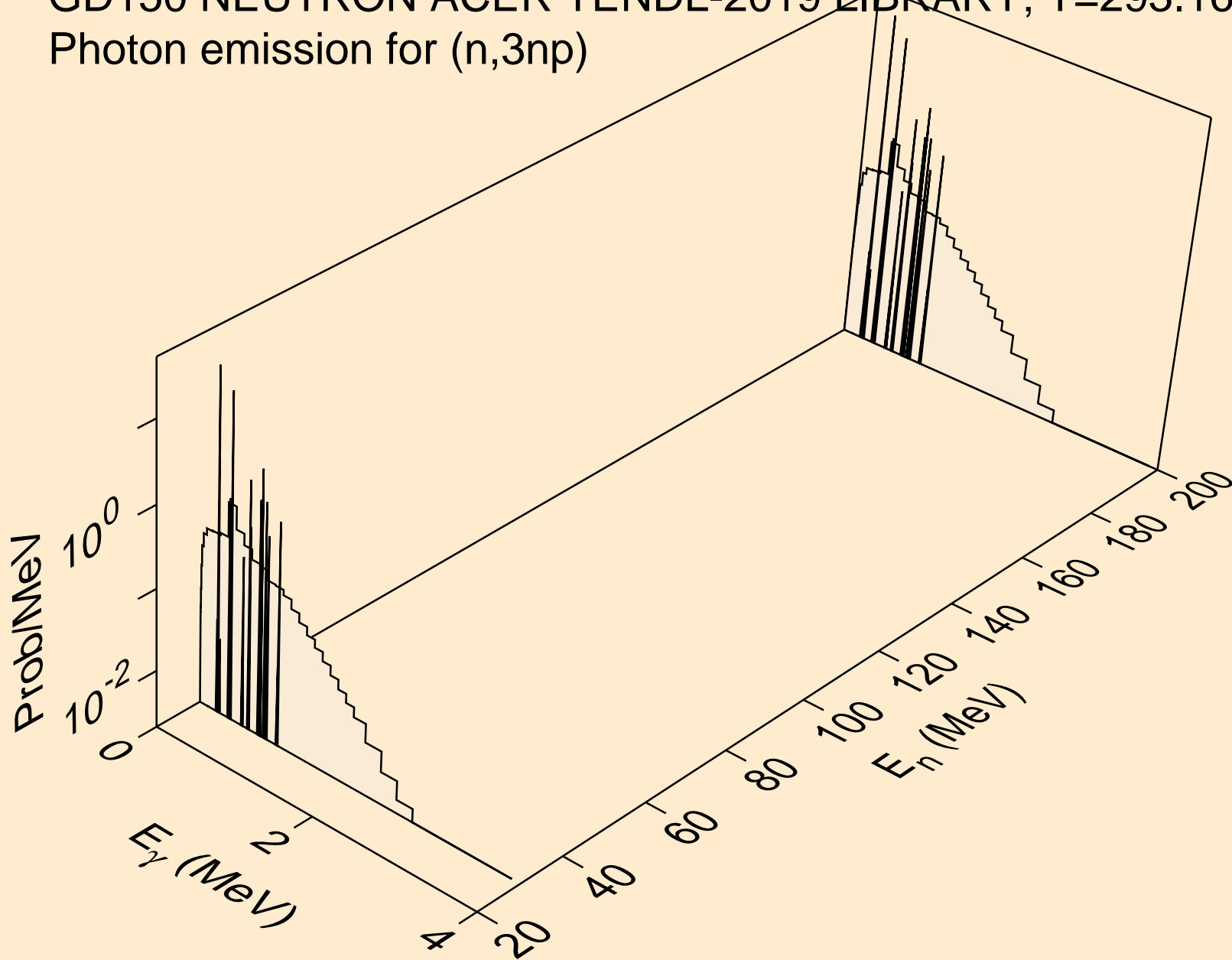
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Photon emission for (n,4n)



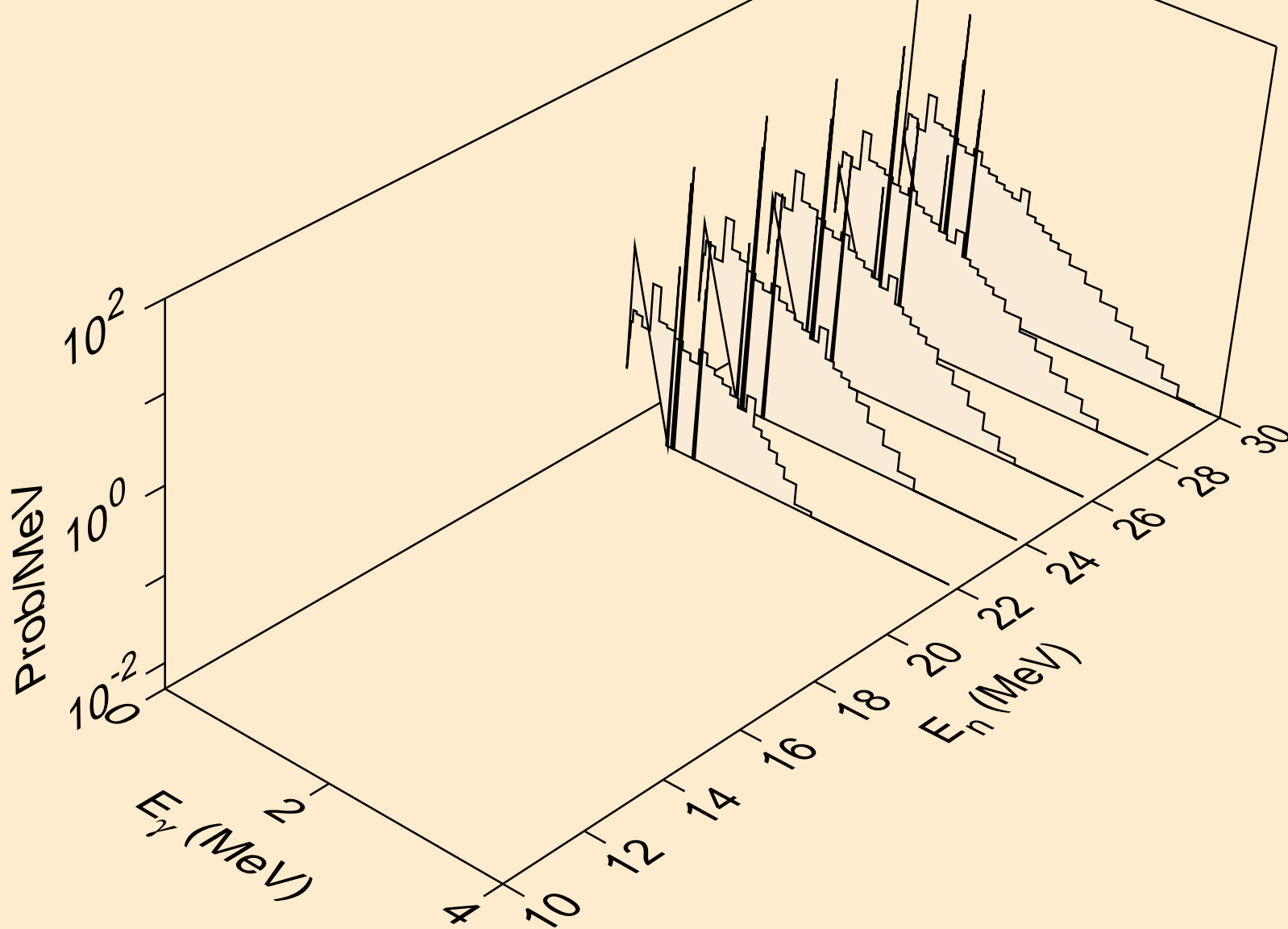
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Photon emission for (n,2np)



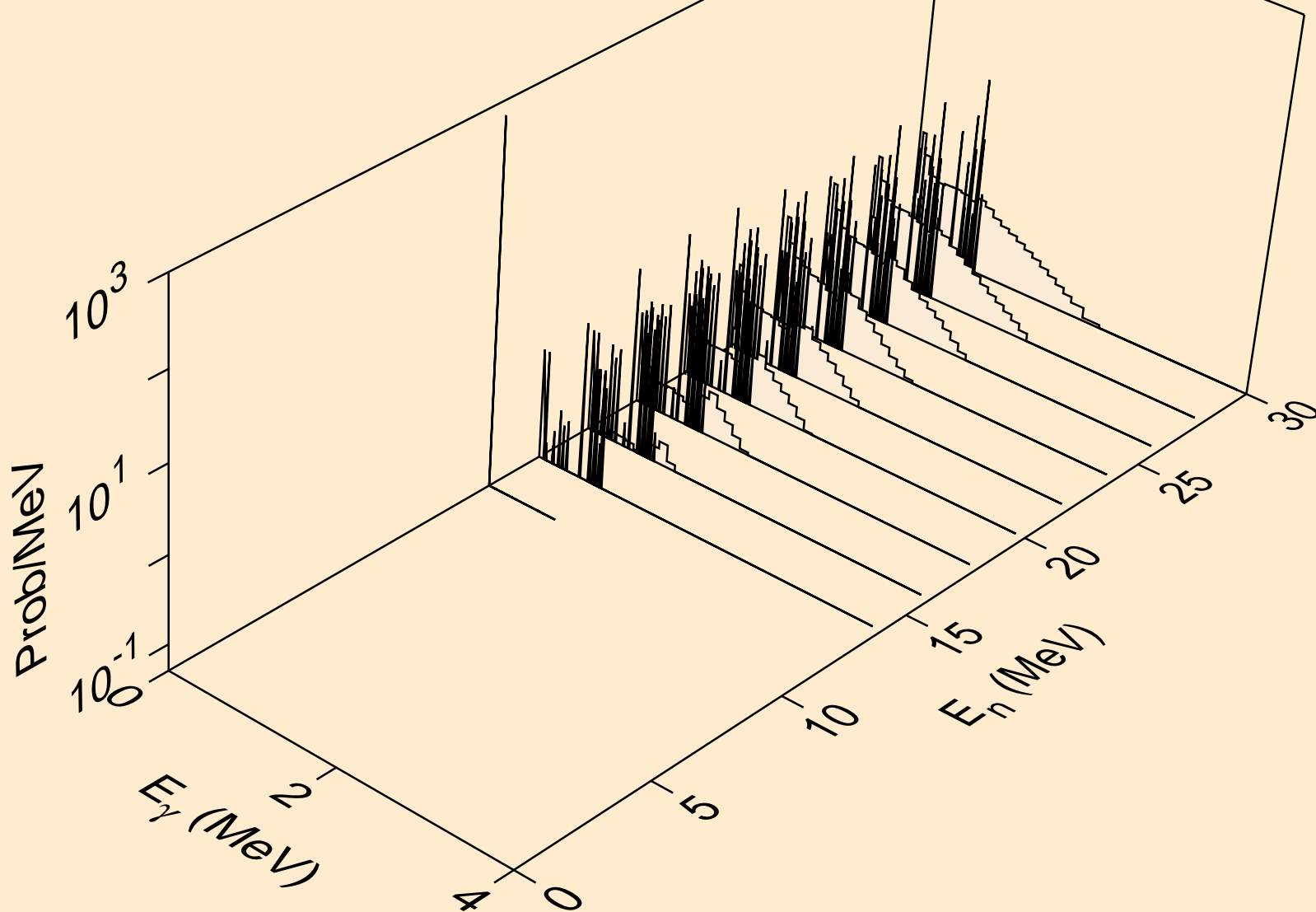
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



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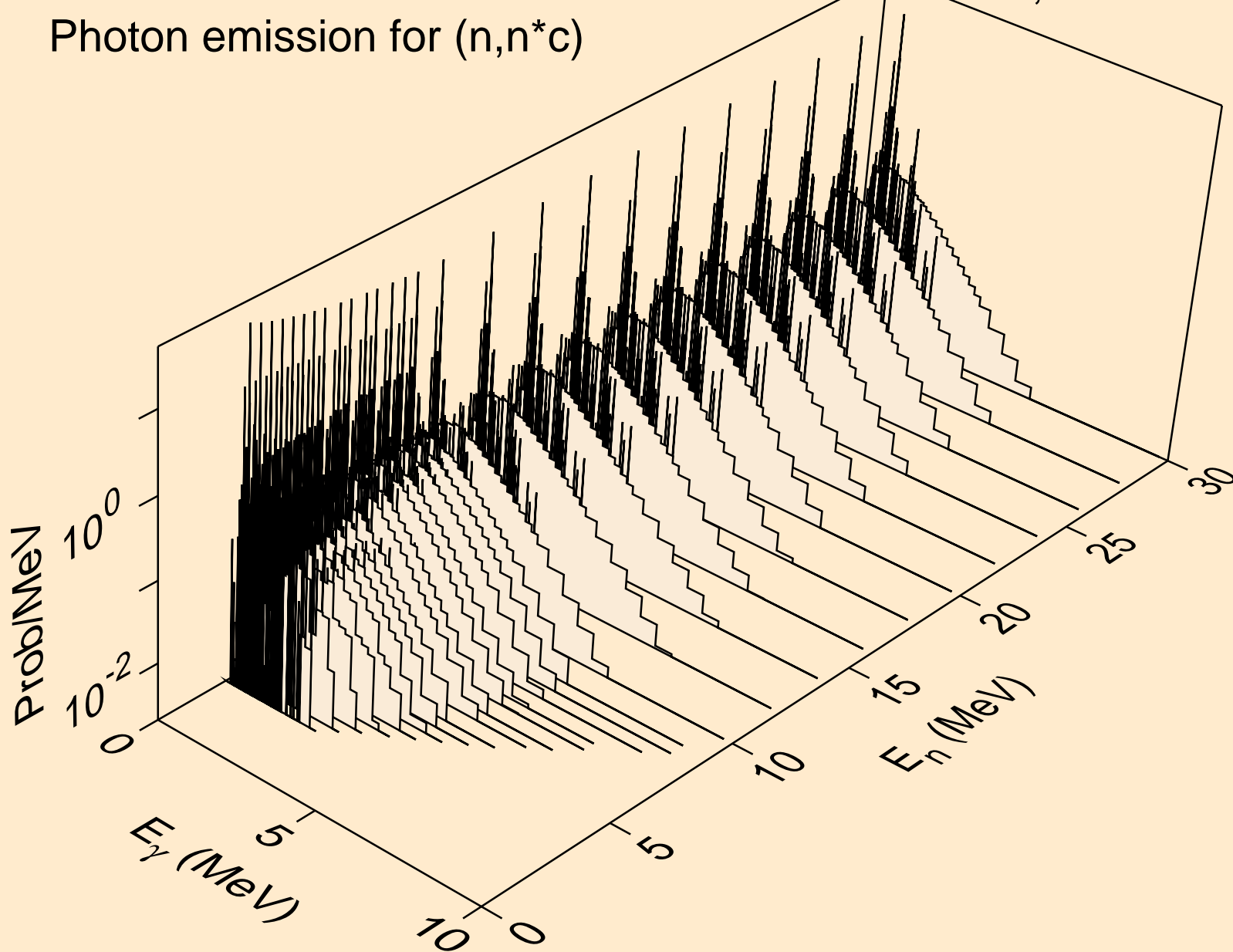


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Photon emission for (n,npa)

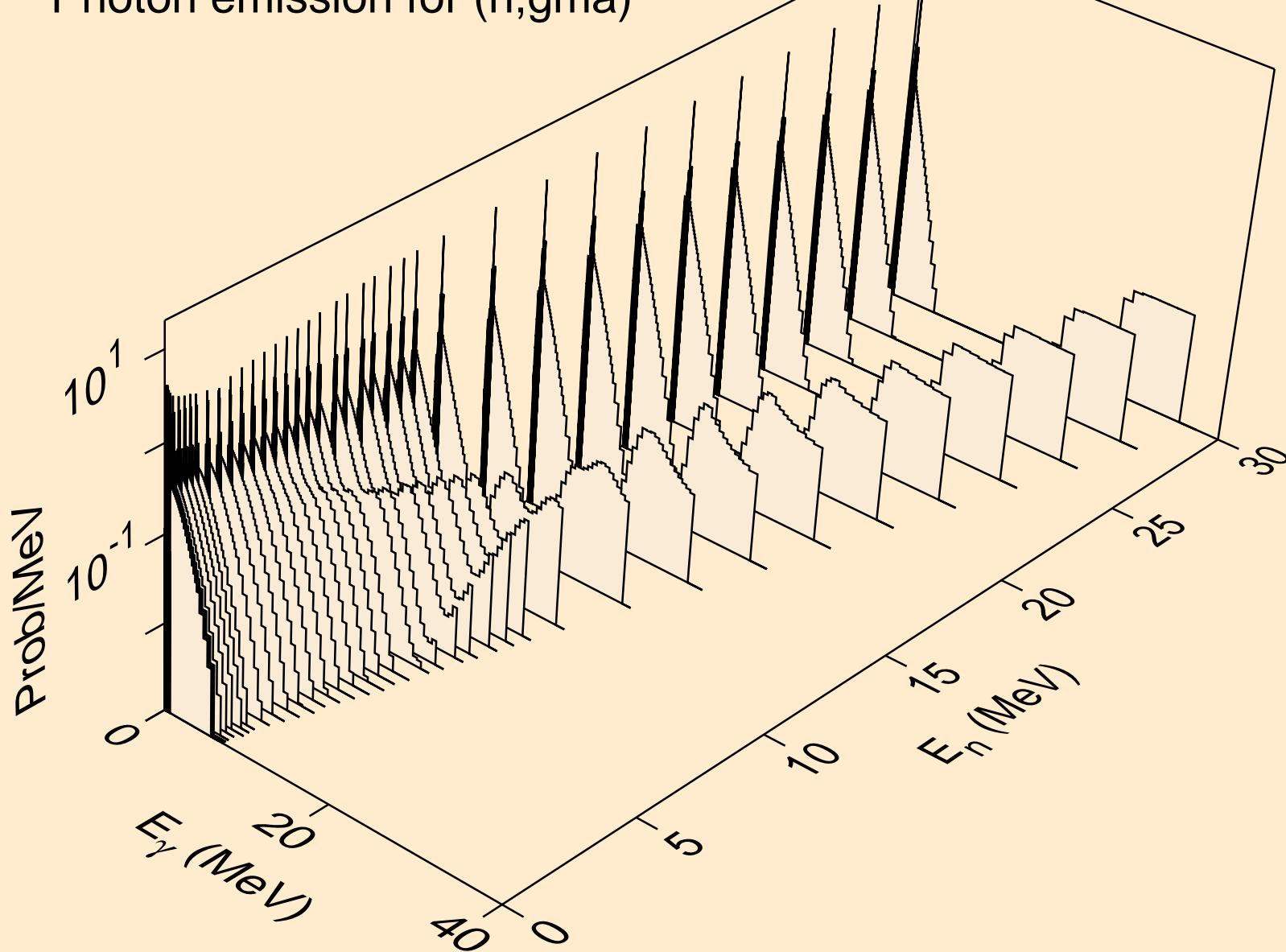




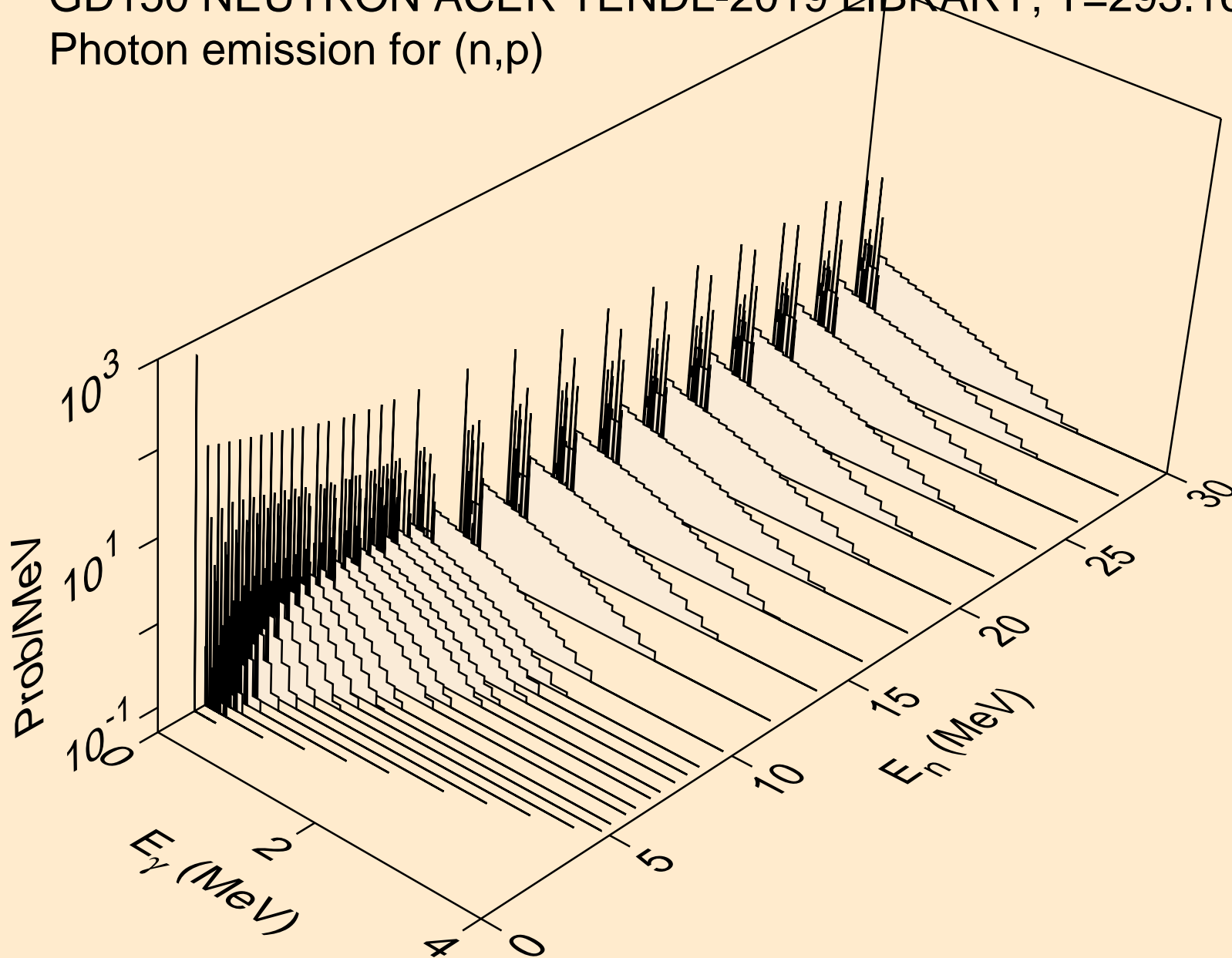
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Photon emission for (n,n\*c)



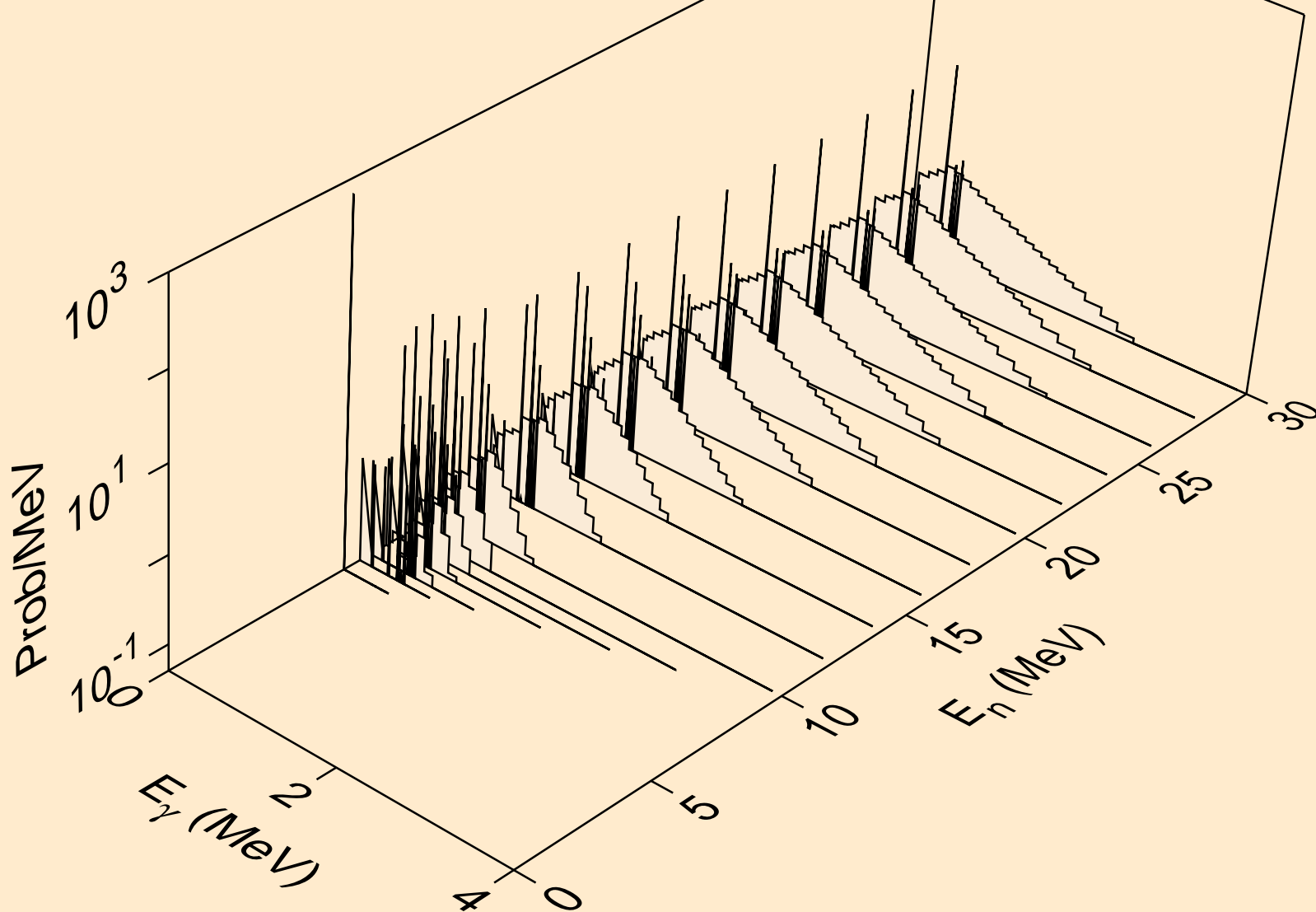
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Photon emission for (n,gma)



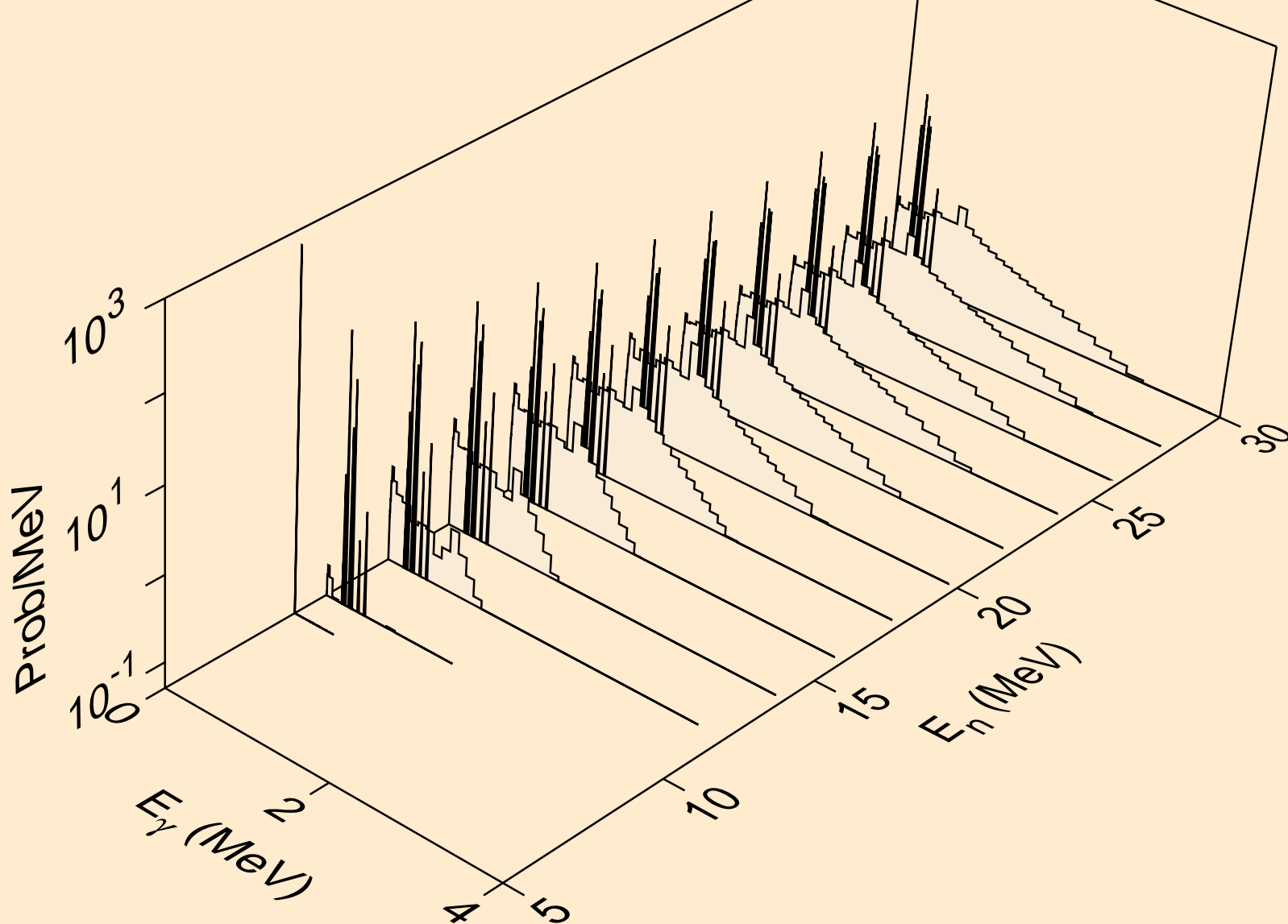
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Photon emission for (n,p)



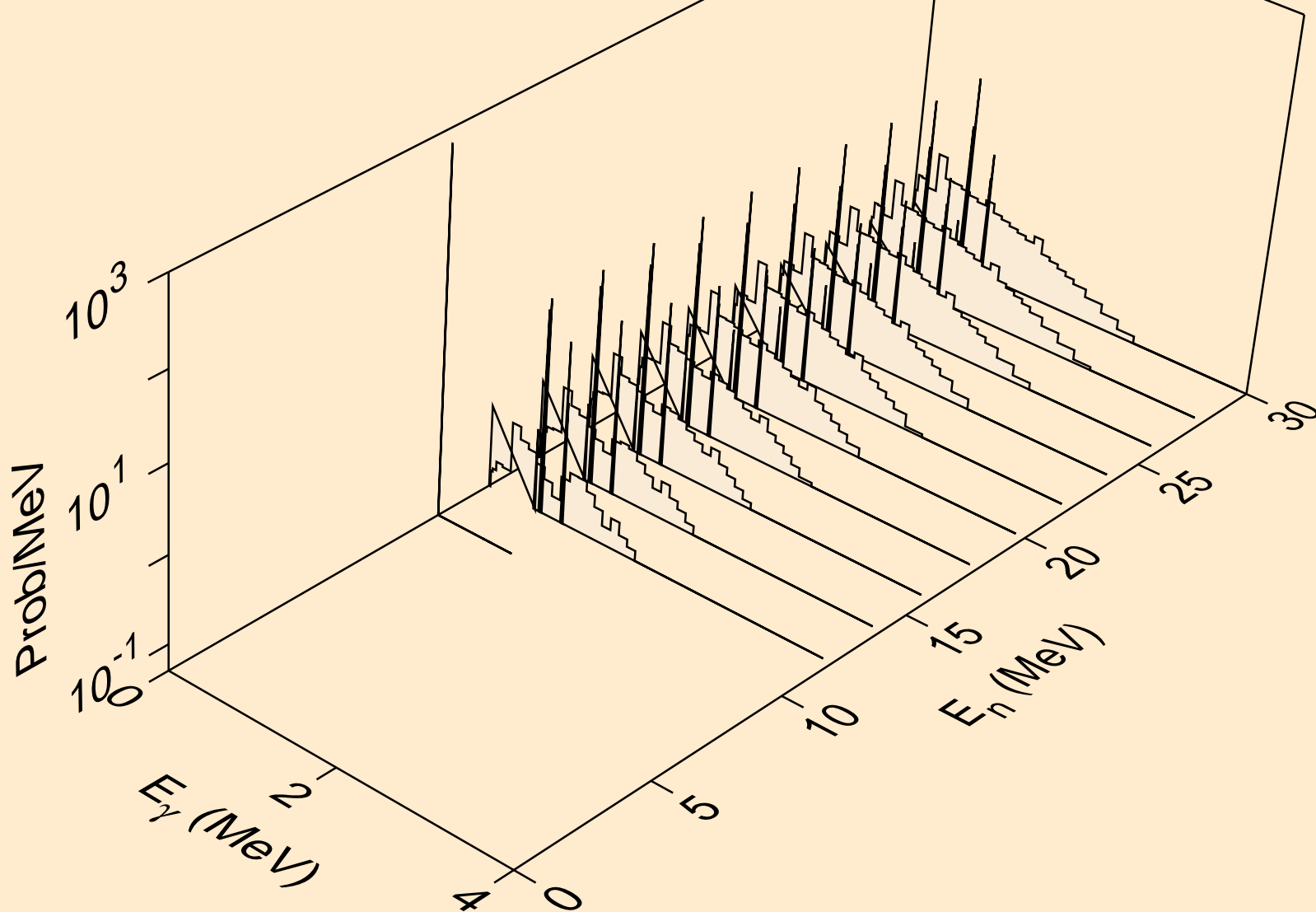
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Photon emission for (n,d)



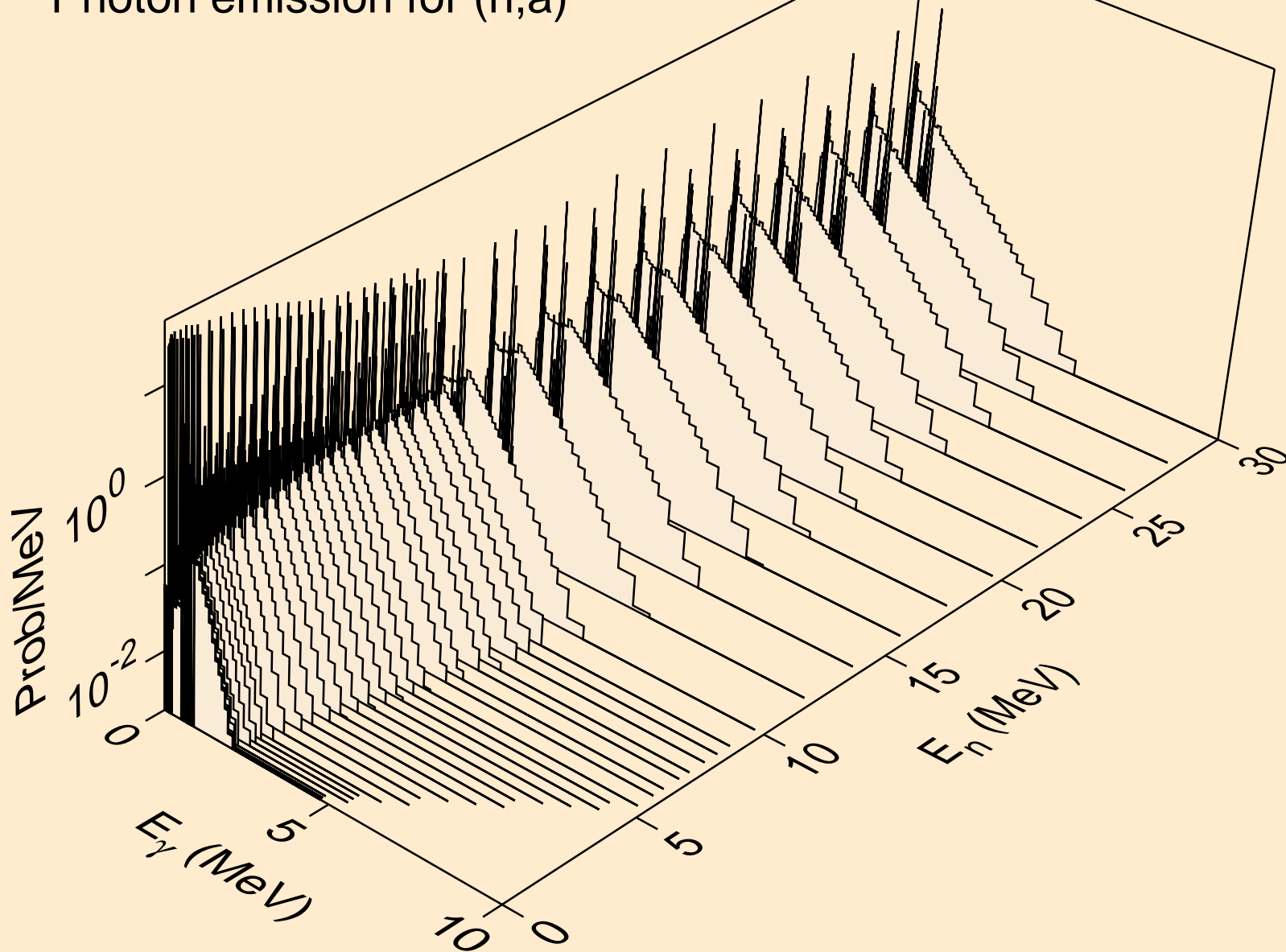
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Photon emission for (n,t)



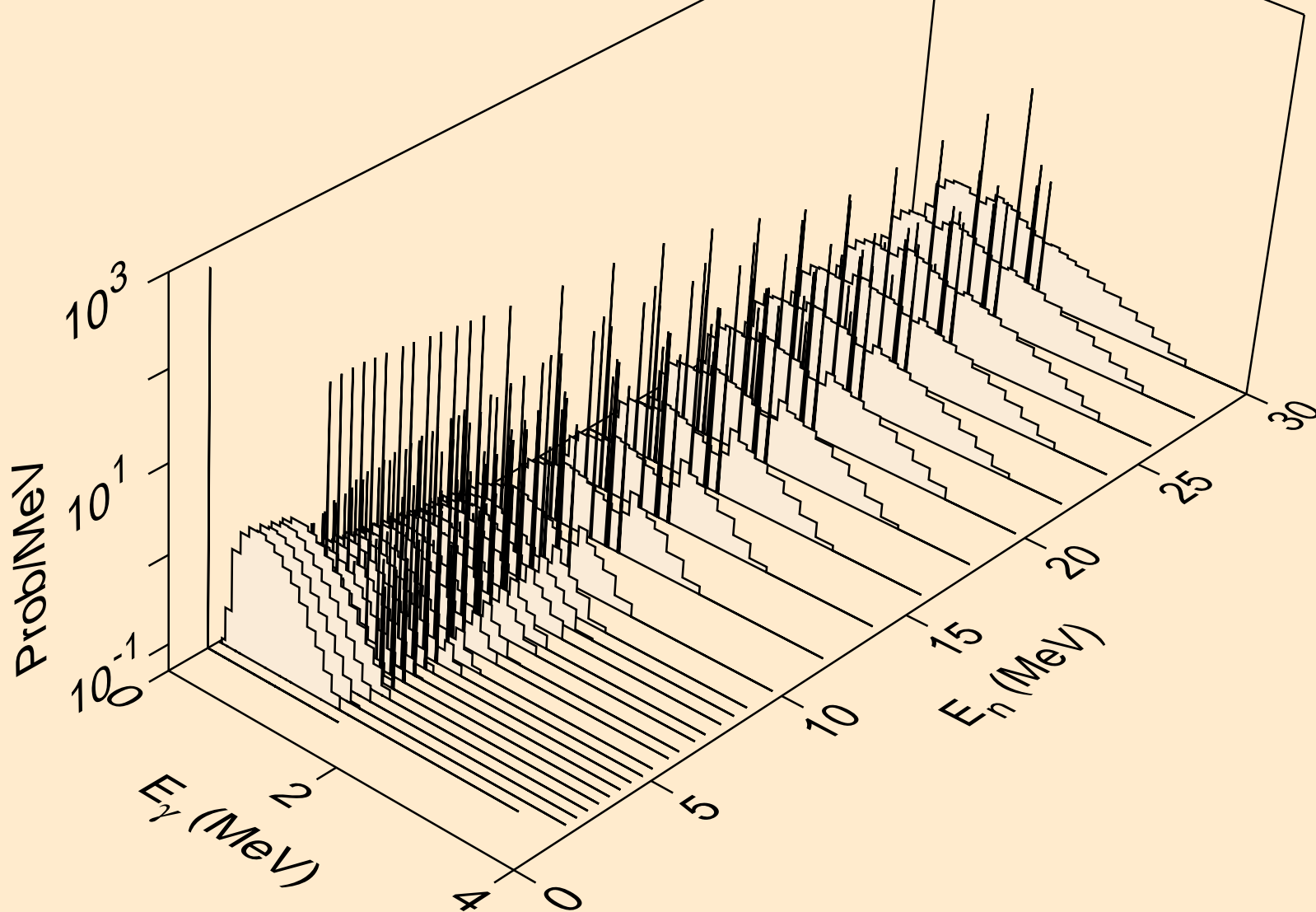
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Photon emission for (n,he3)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

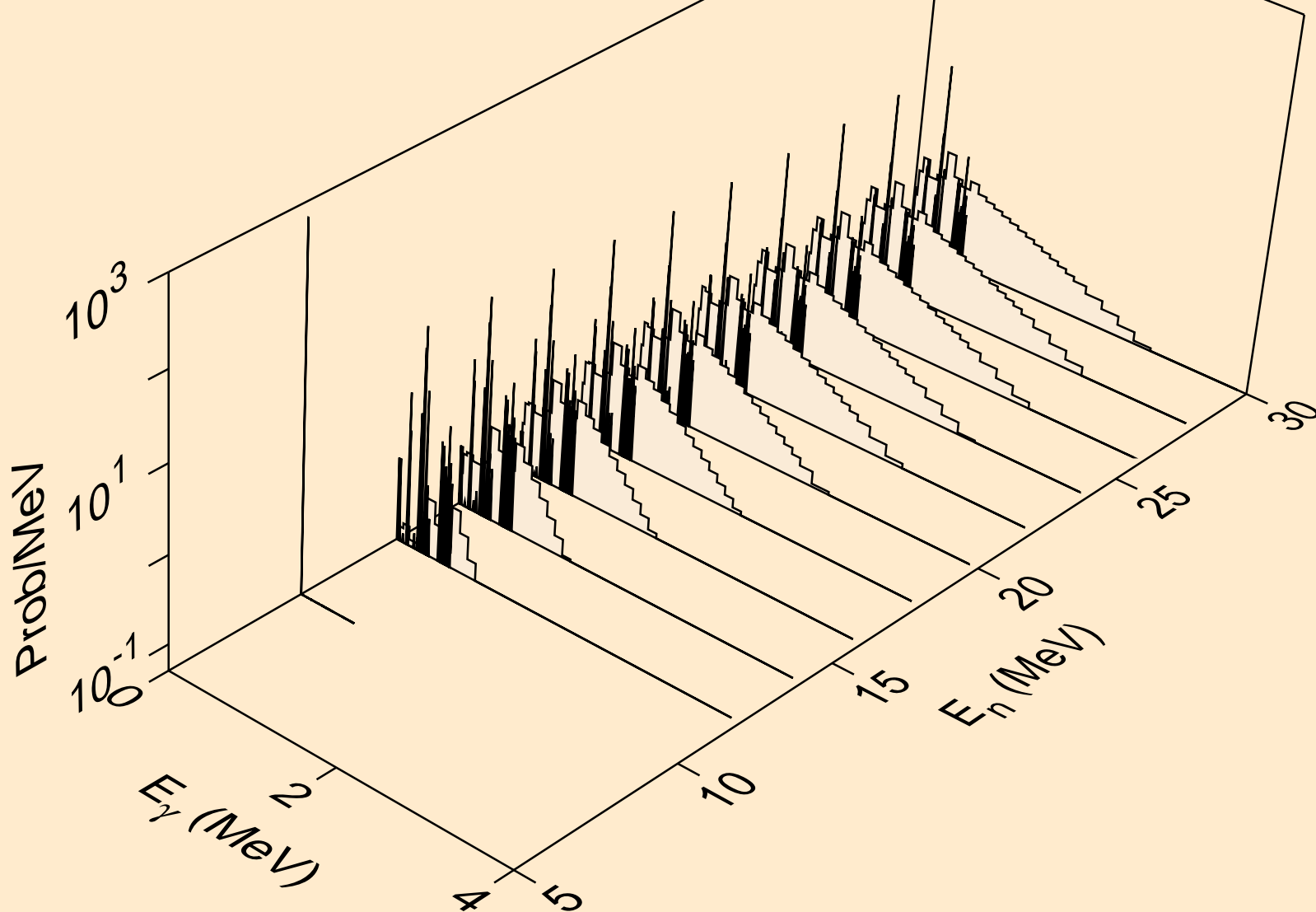


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Photon emission for (n,2a)

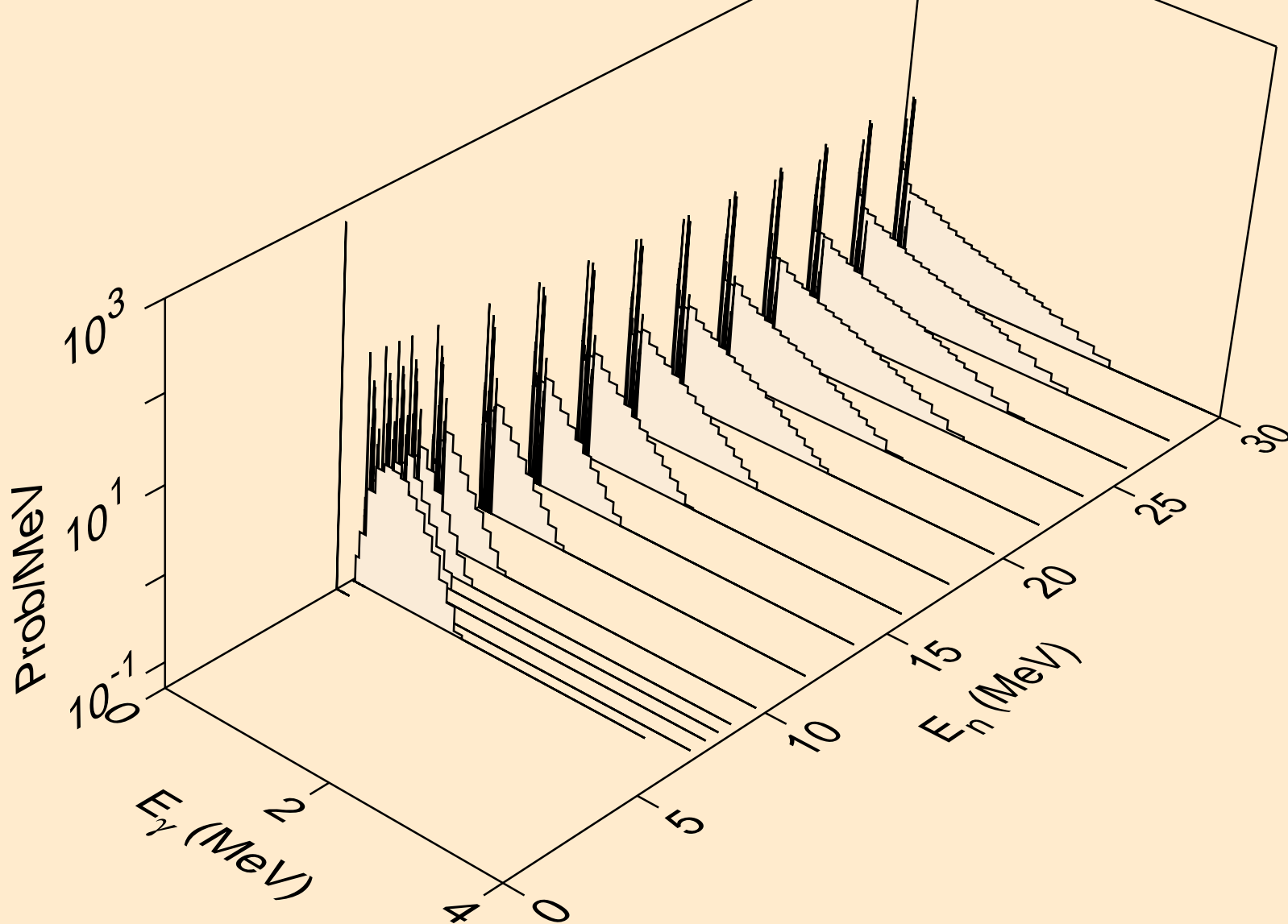




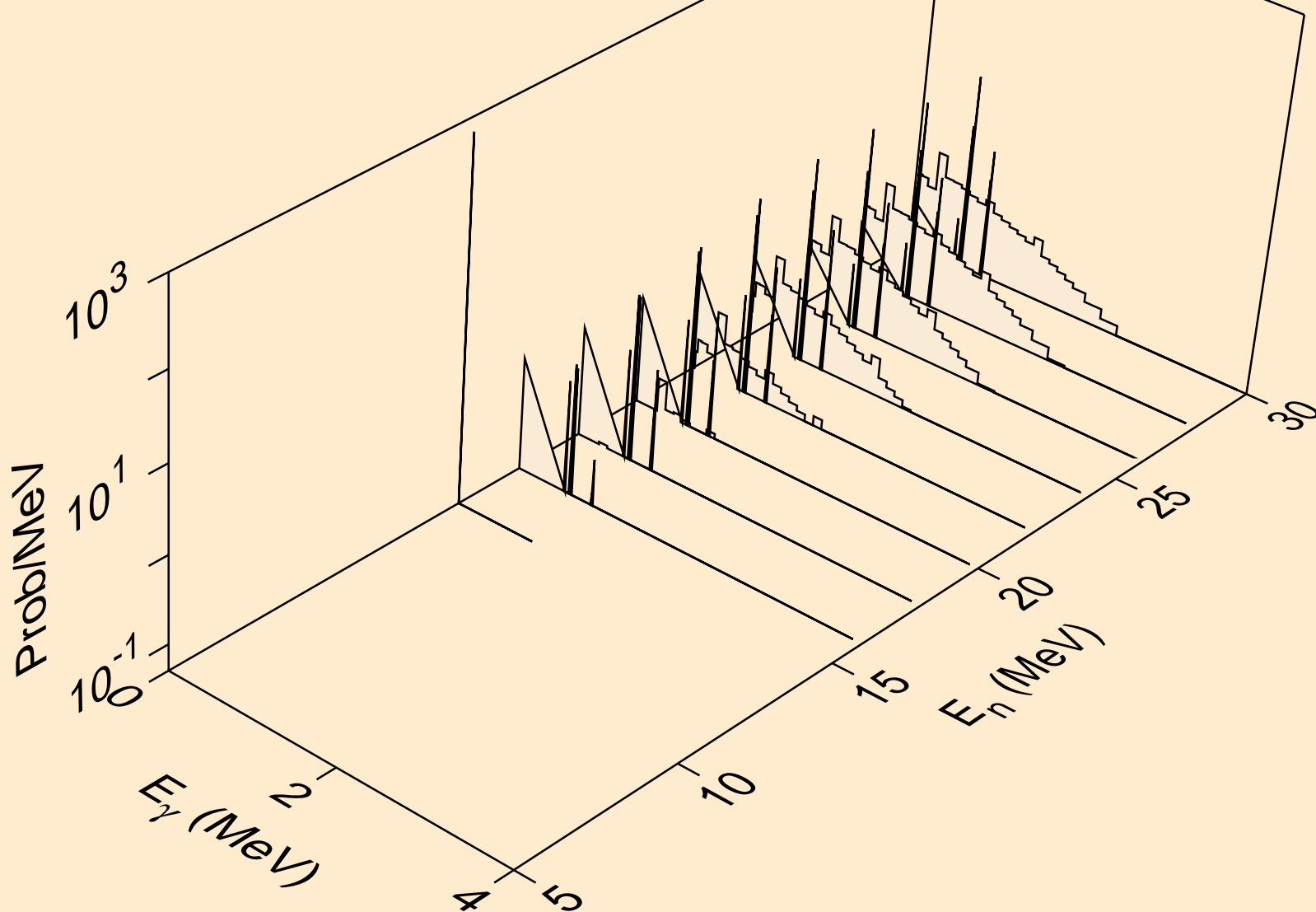
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Photon emission for (n,2p)



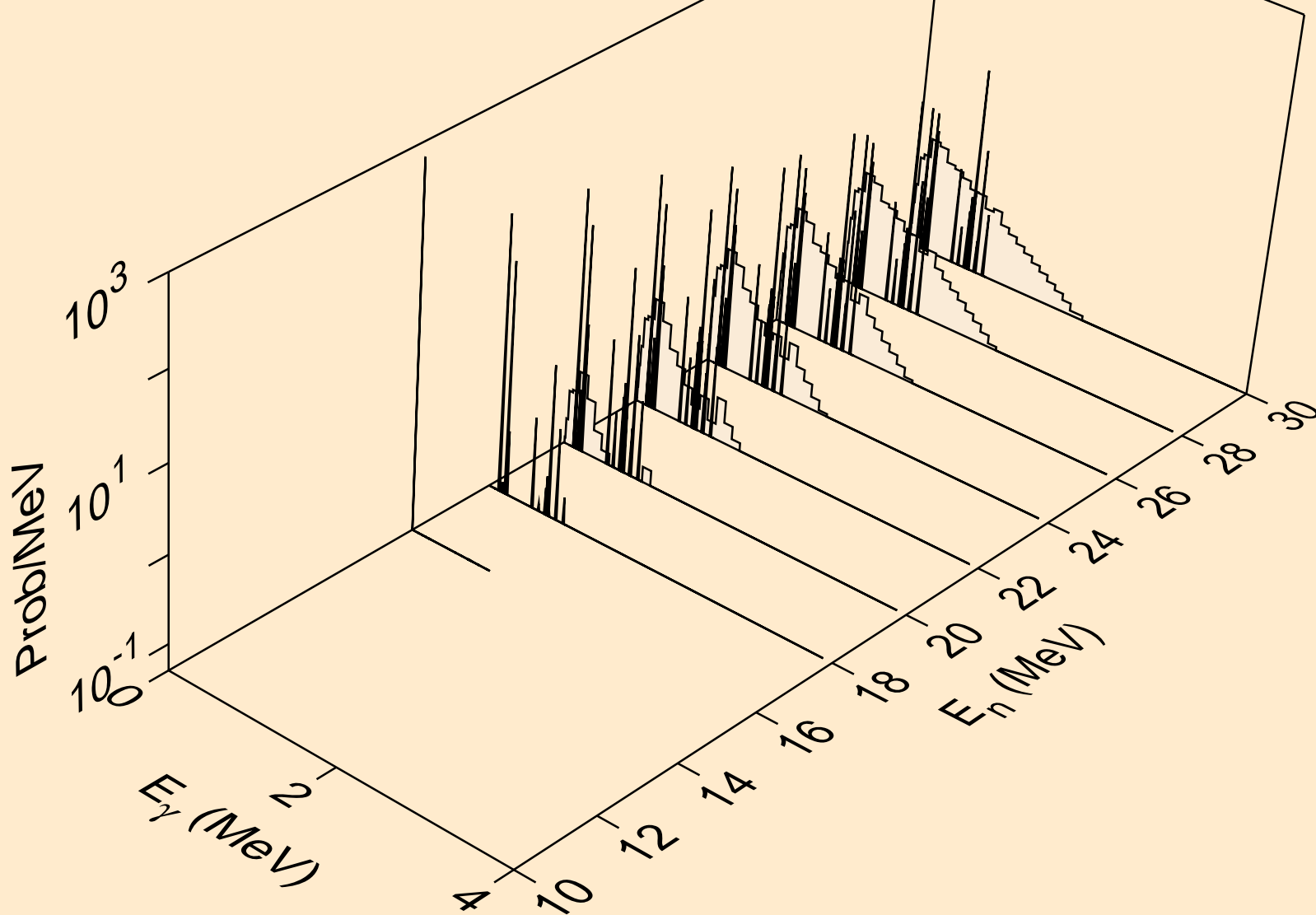
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Photon emission for (n,p $\alpha$ )



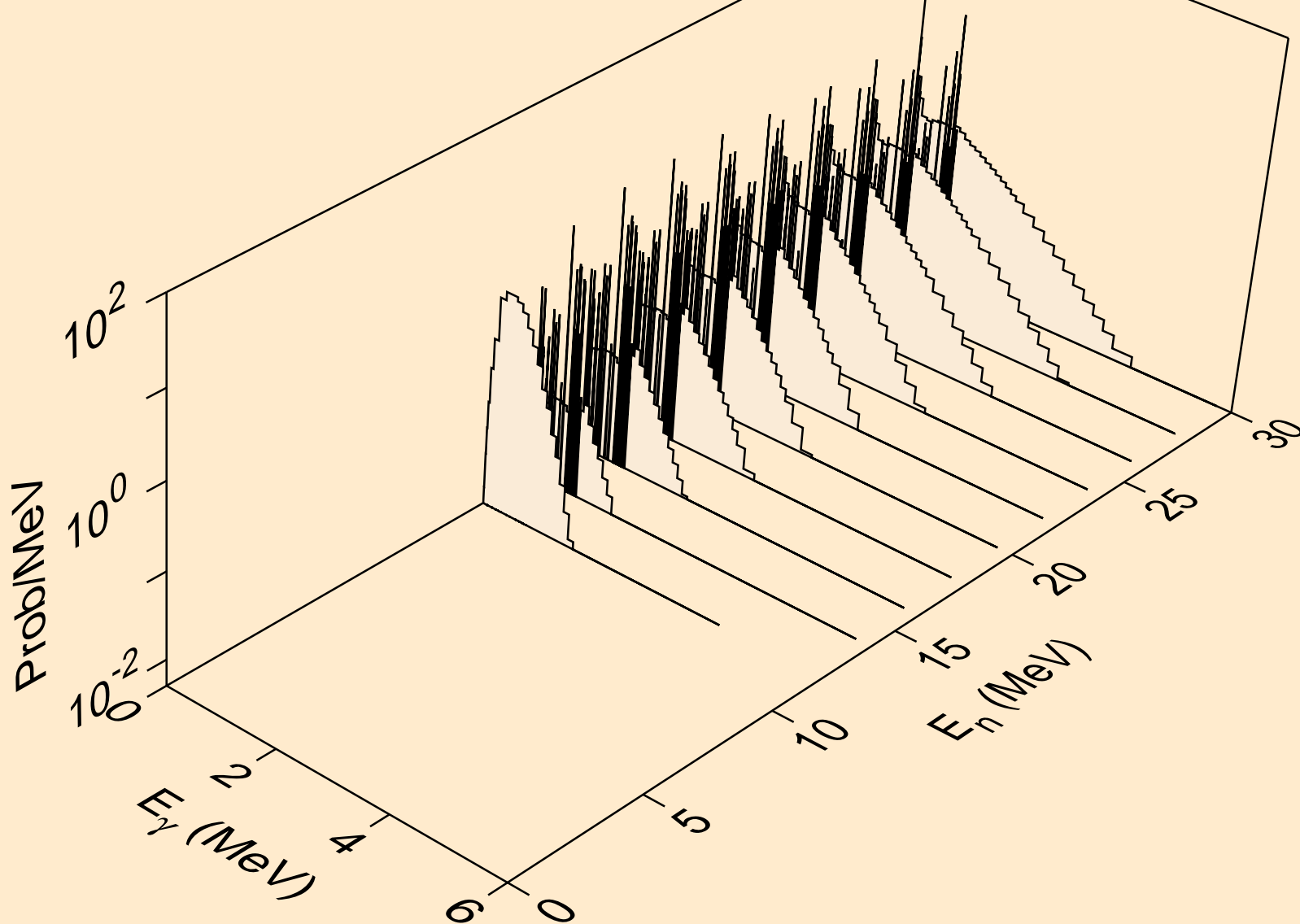
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Photon emission for (n,pd)



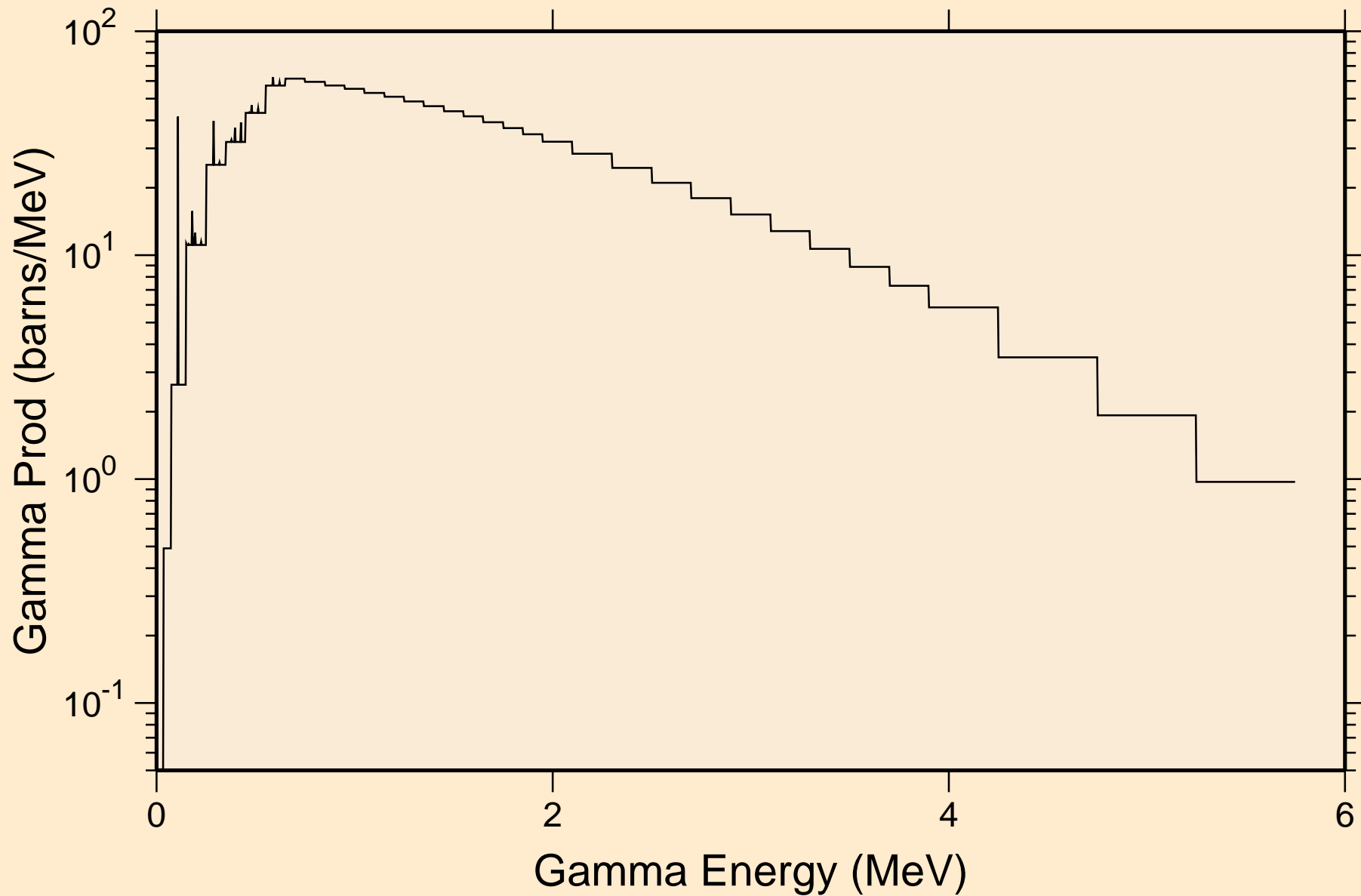
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Photon emission for (n,pt)



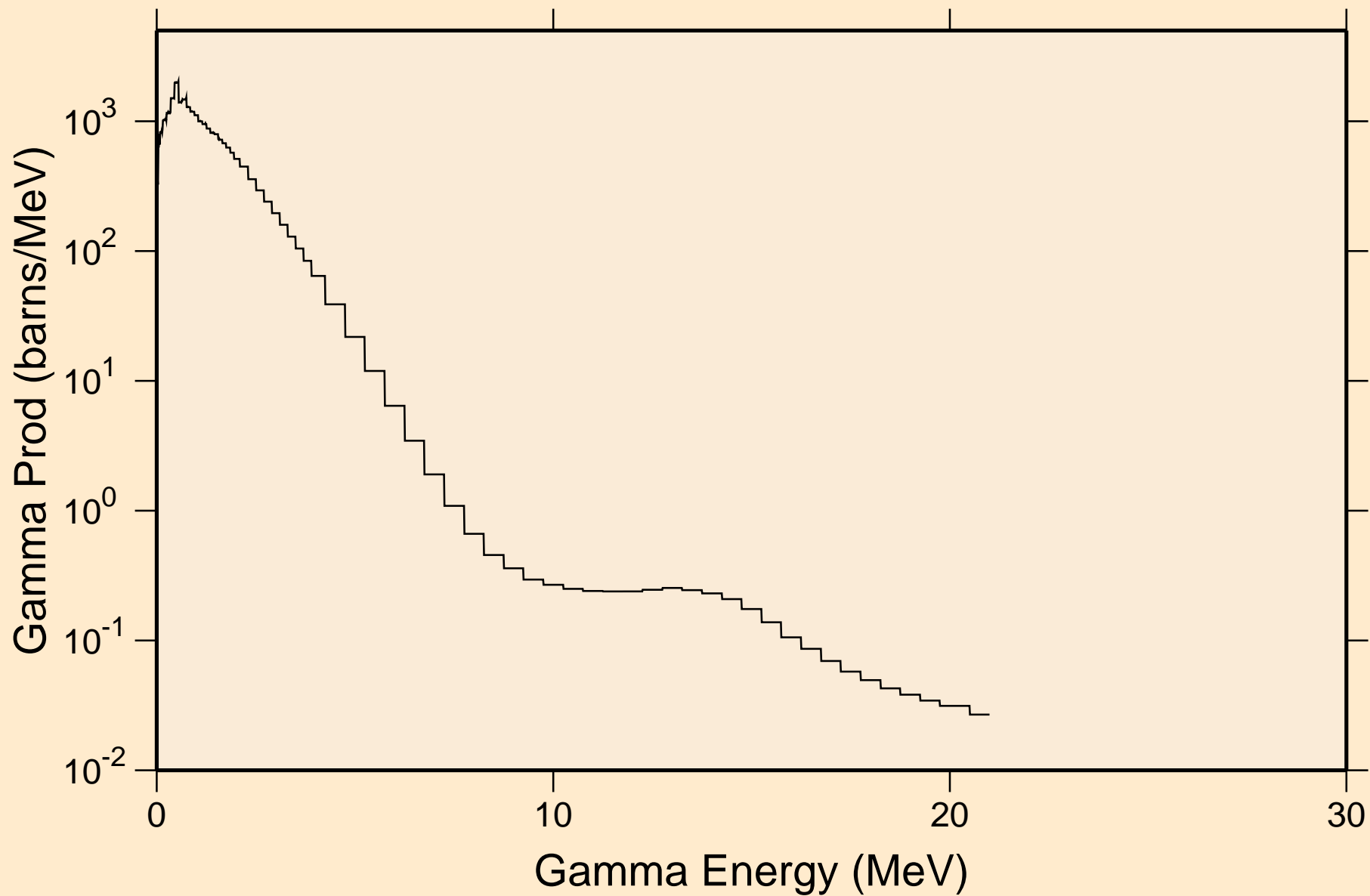
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

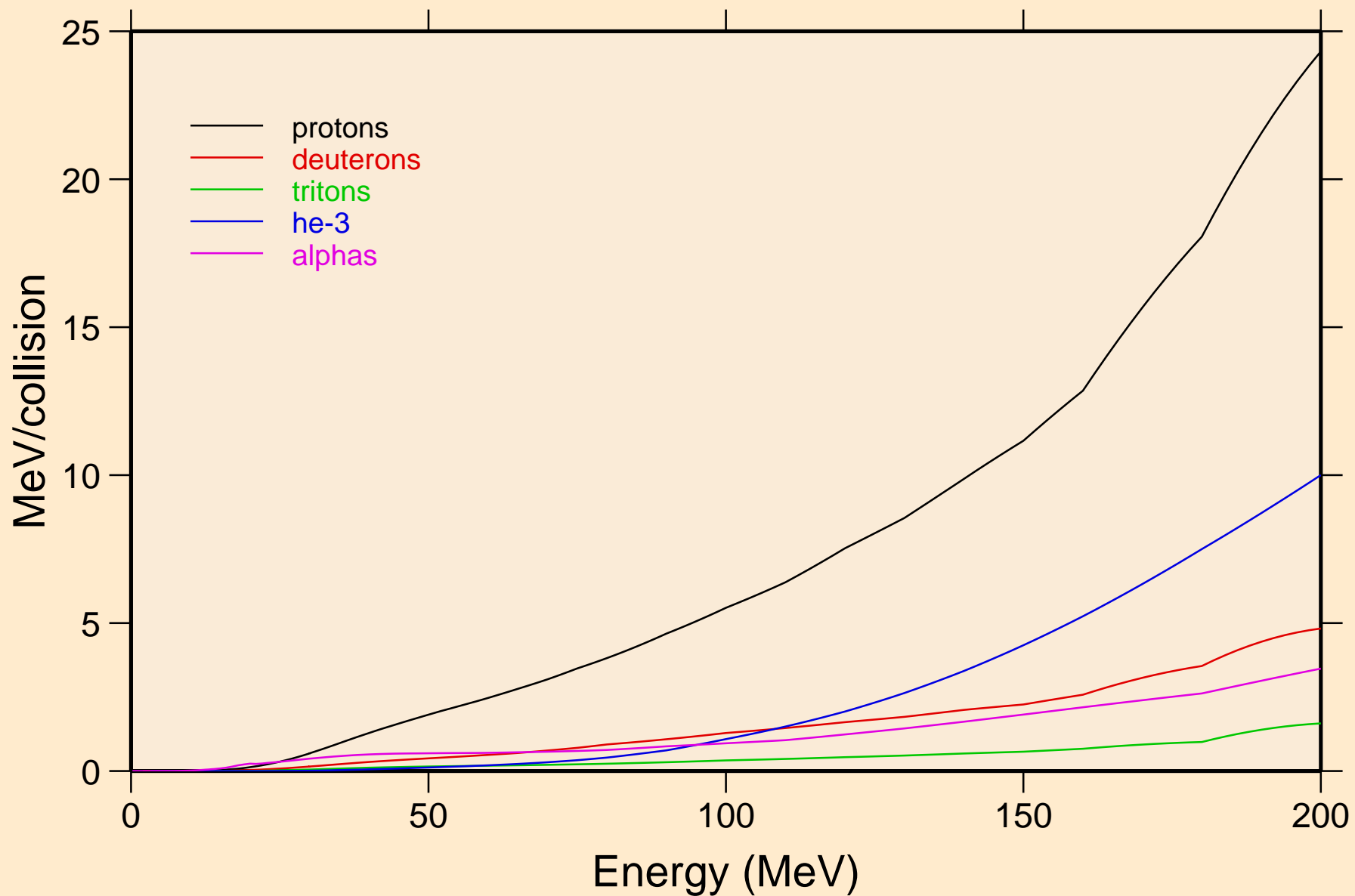


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

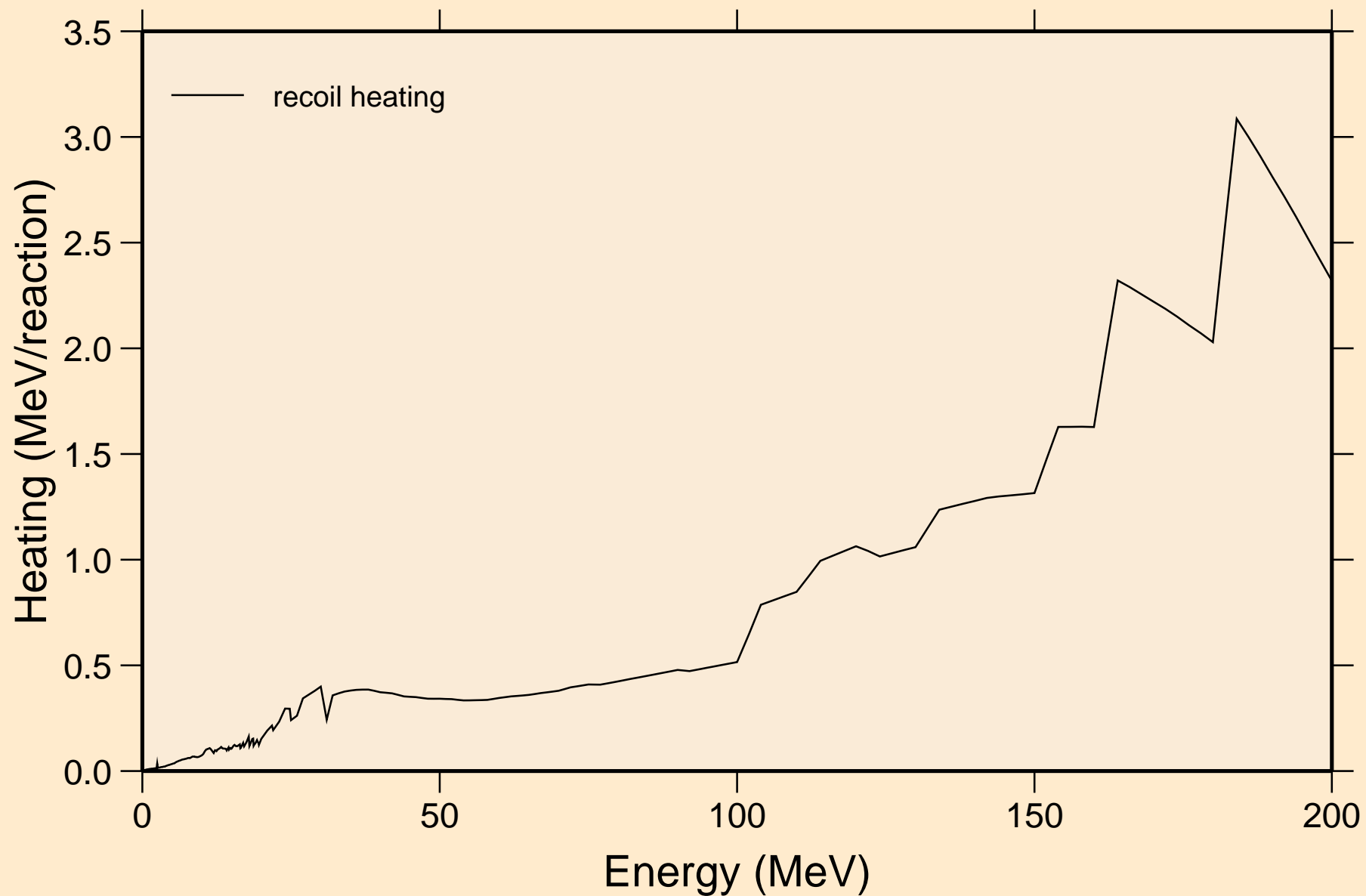
## Particle heating contributions





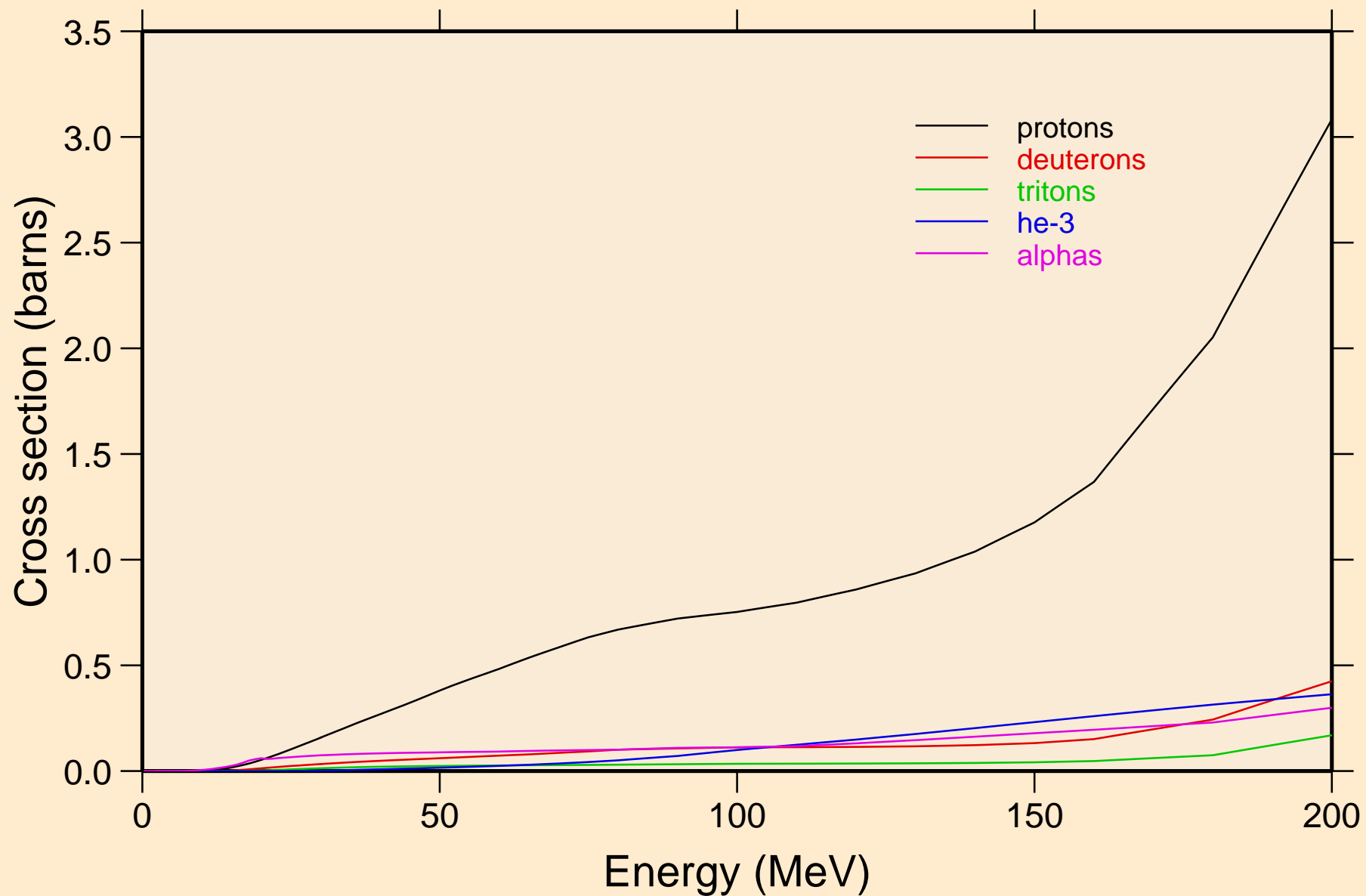
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## Recoil Heating

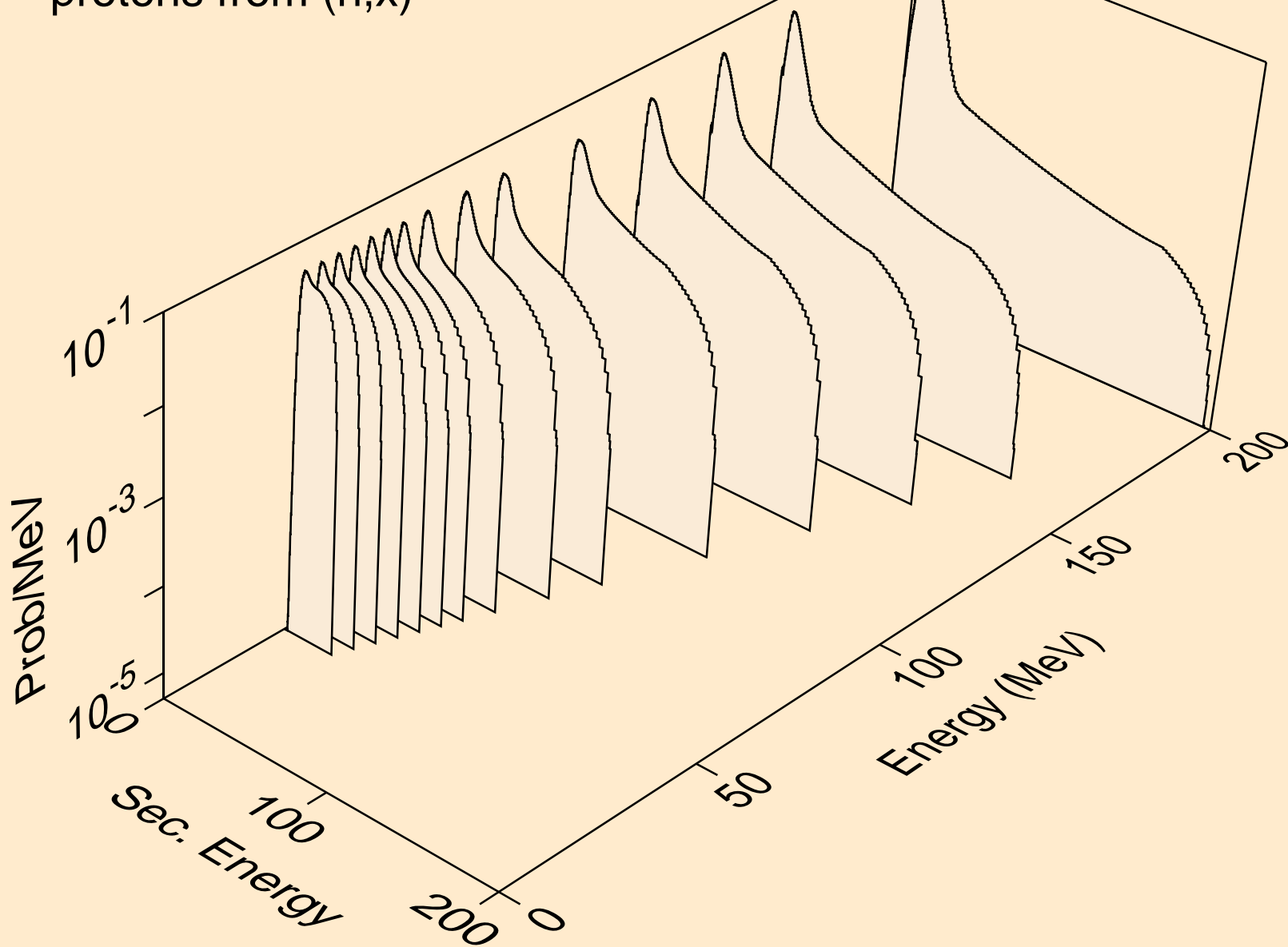


# GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

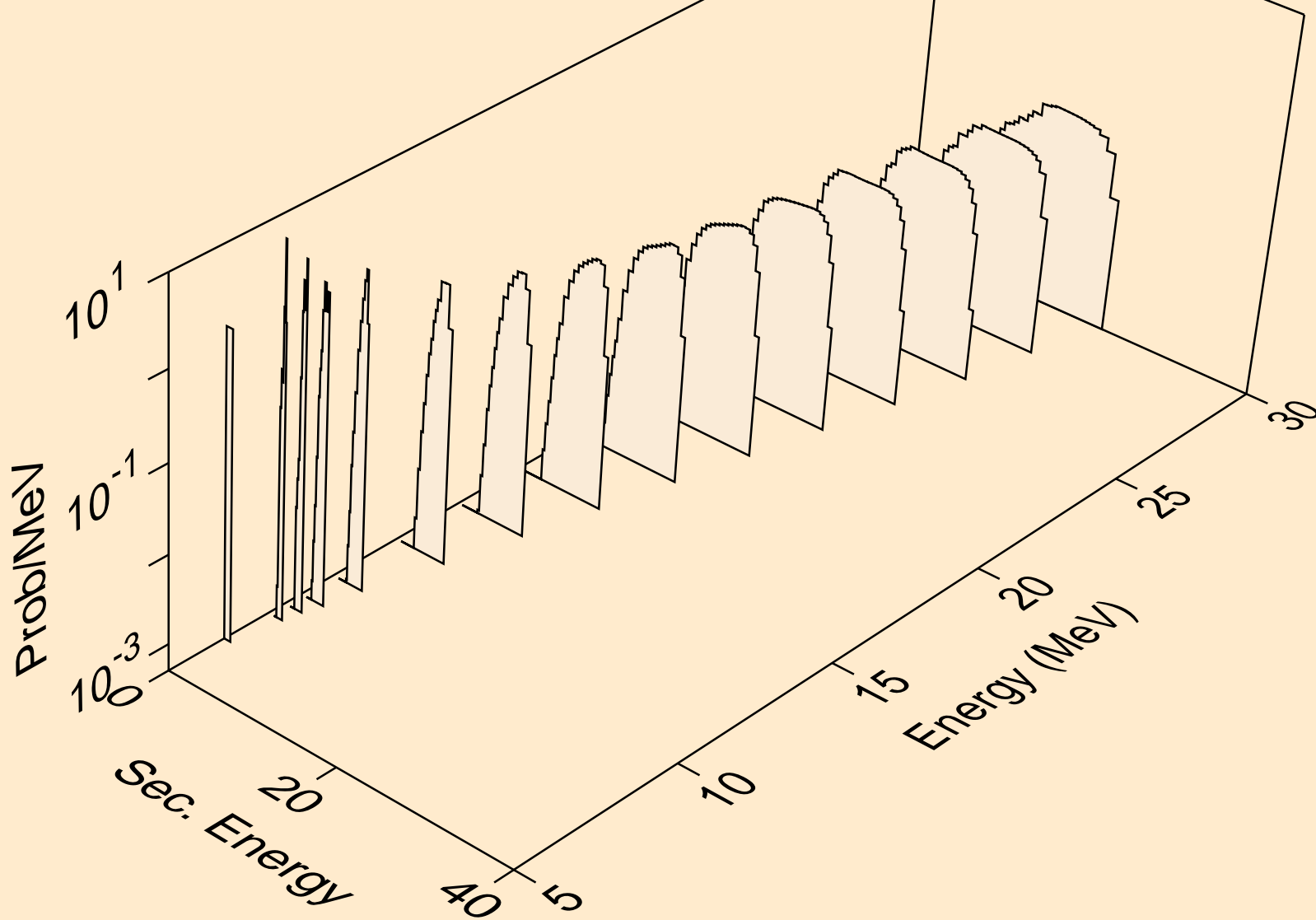
## Particle production cross sections



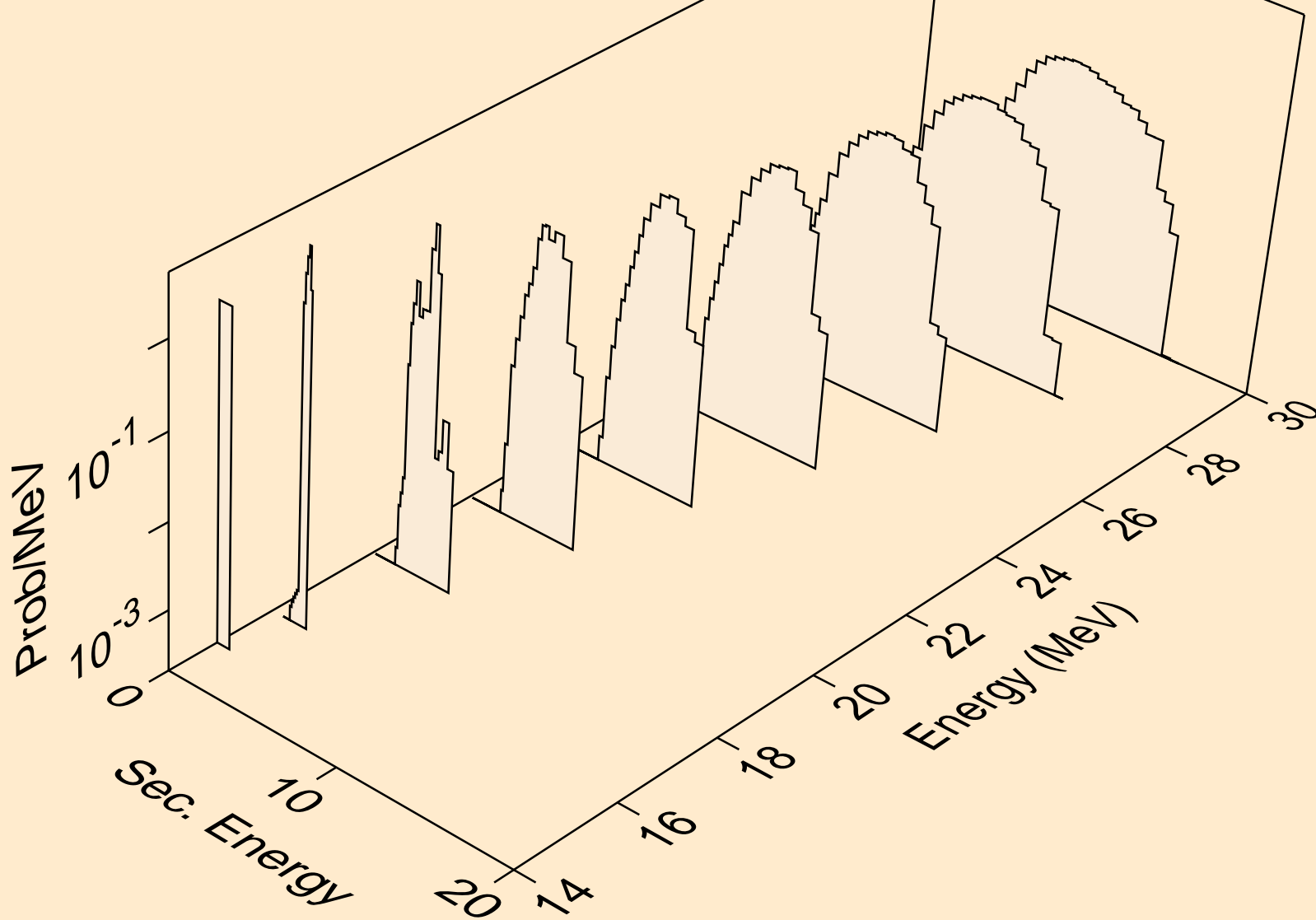
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protons from (n,x)



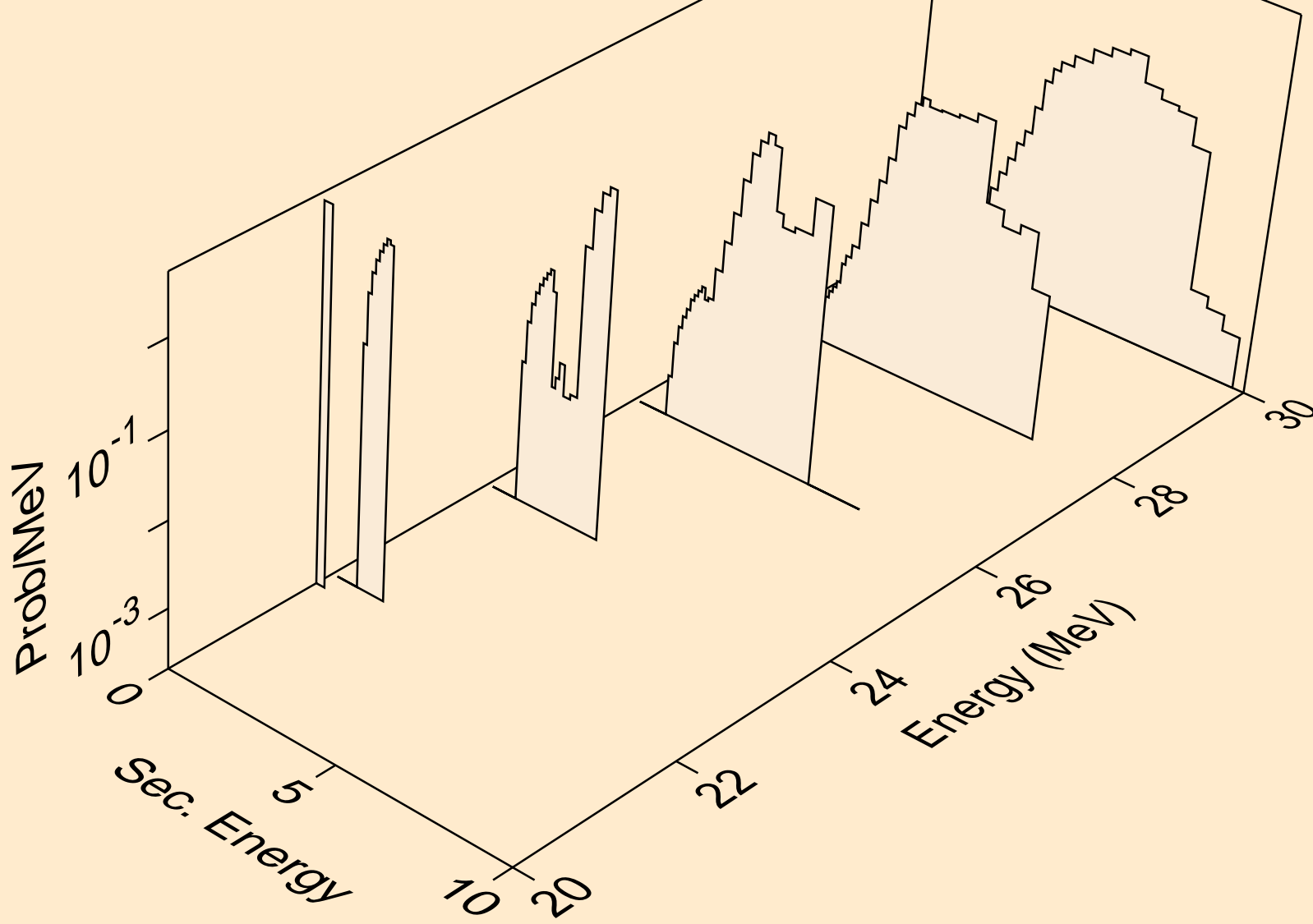
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protons from (n,n\*)p



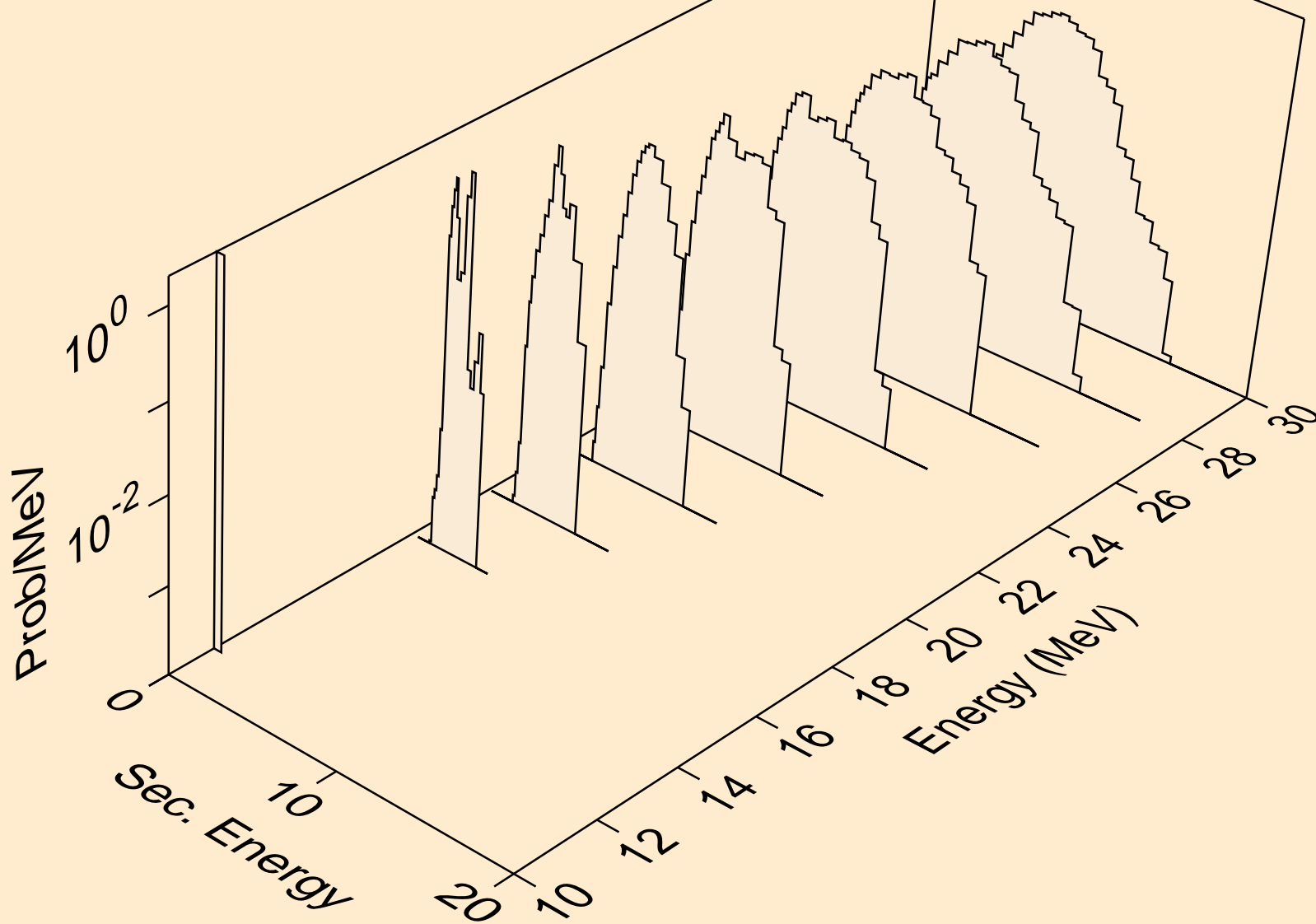
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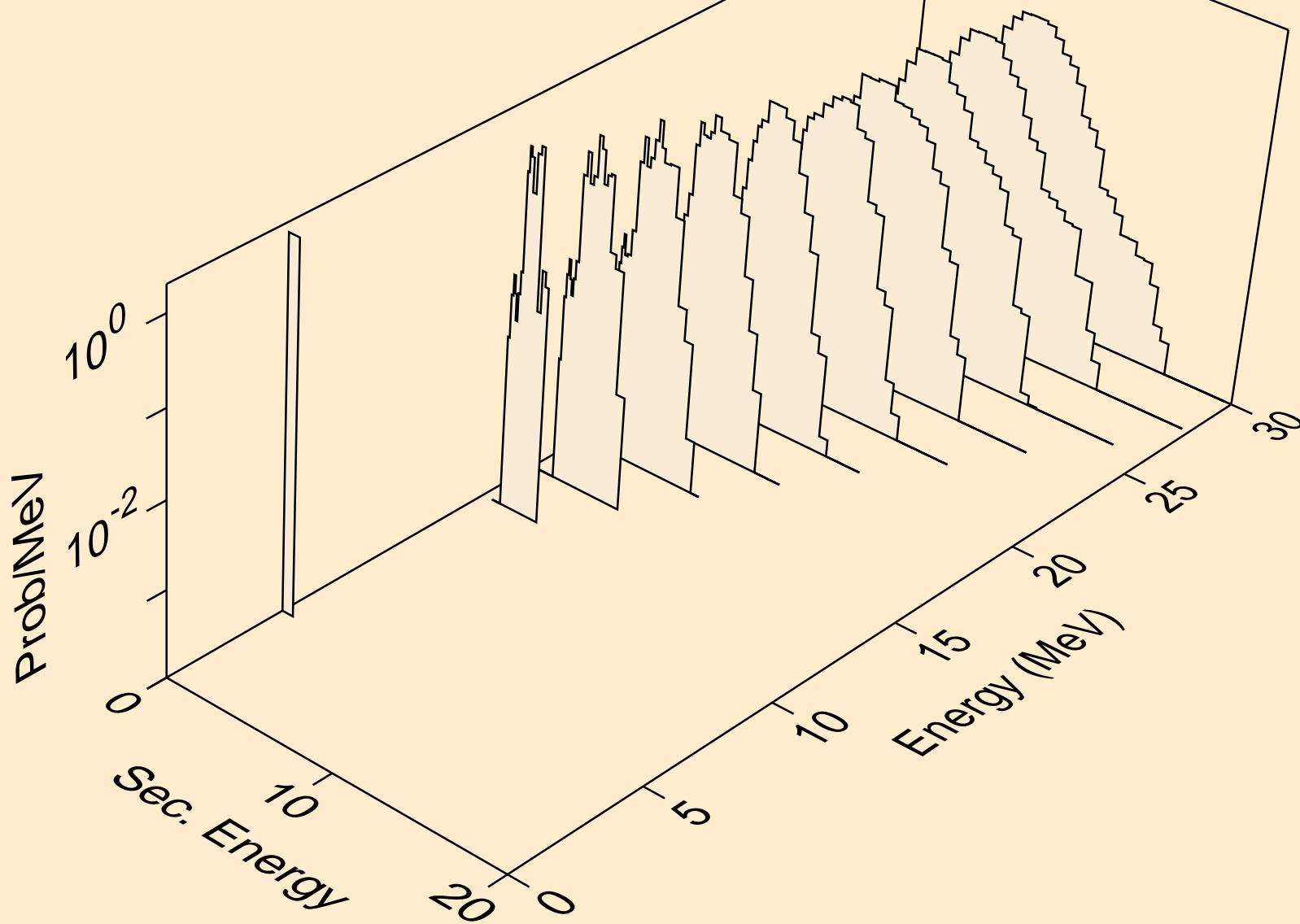
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protons from (n,2np)

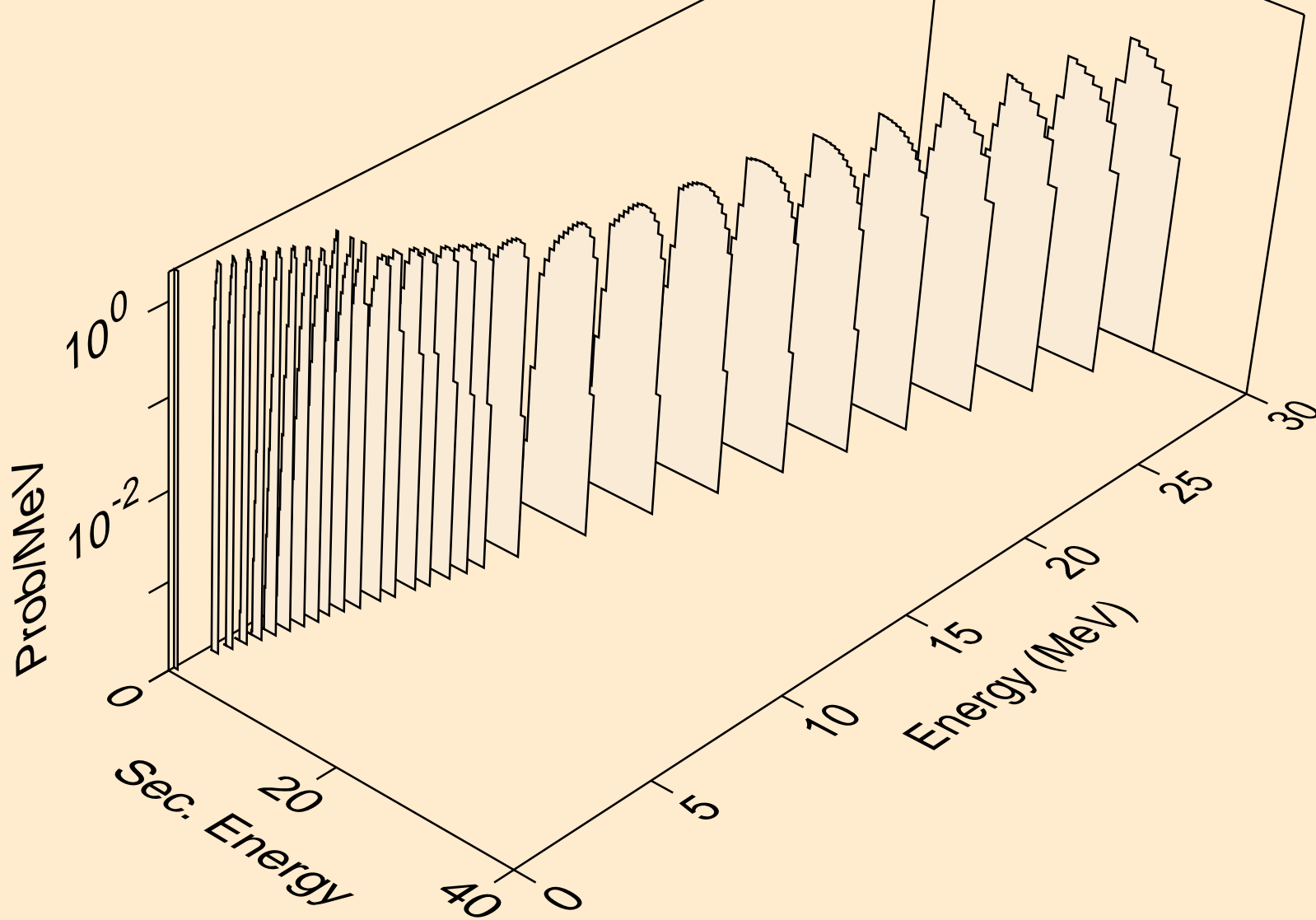


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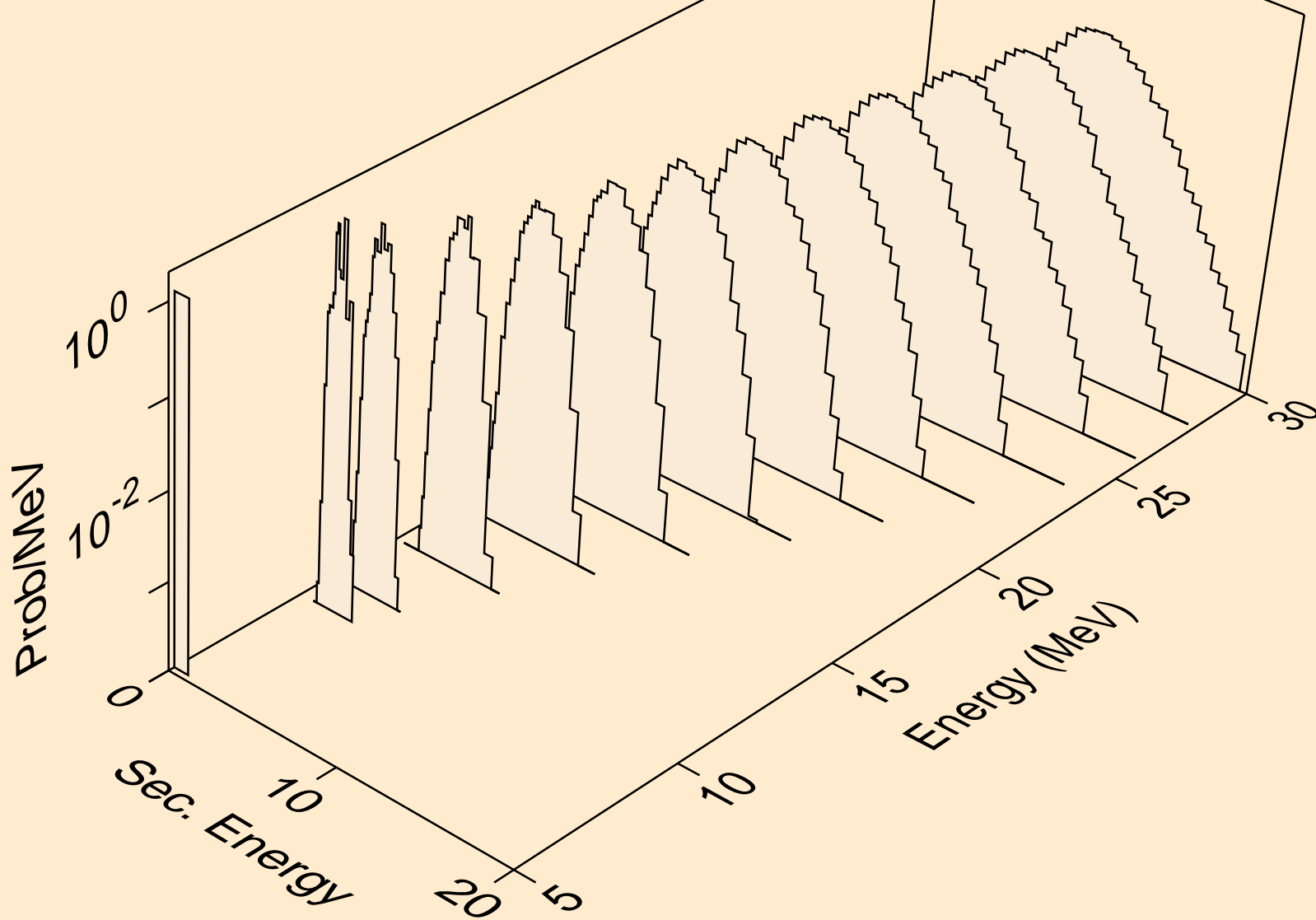




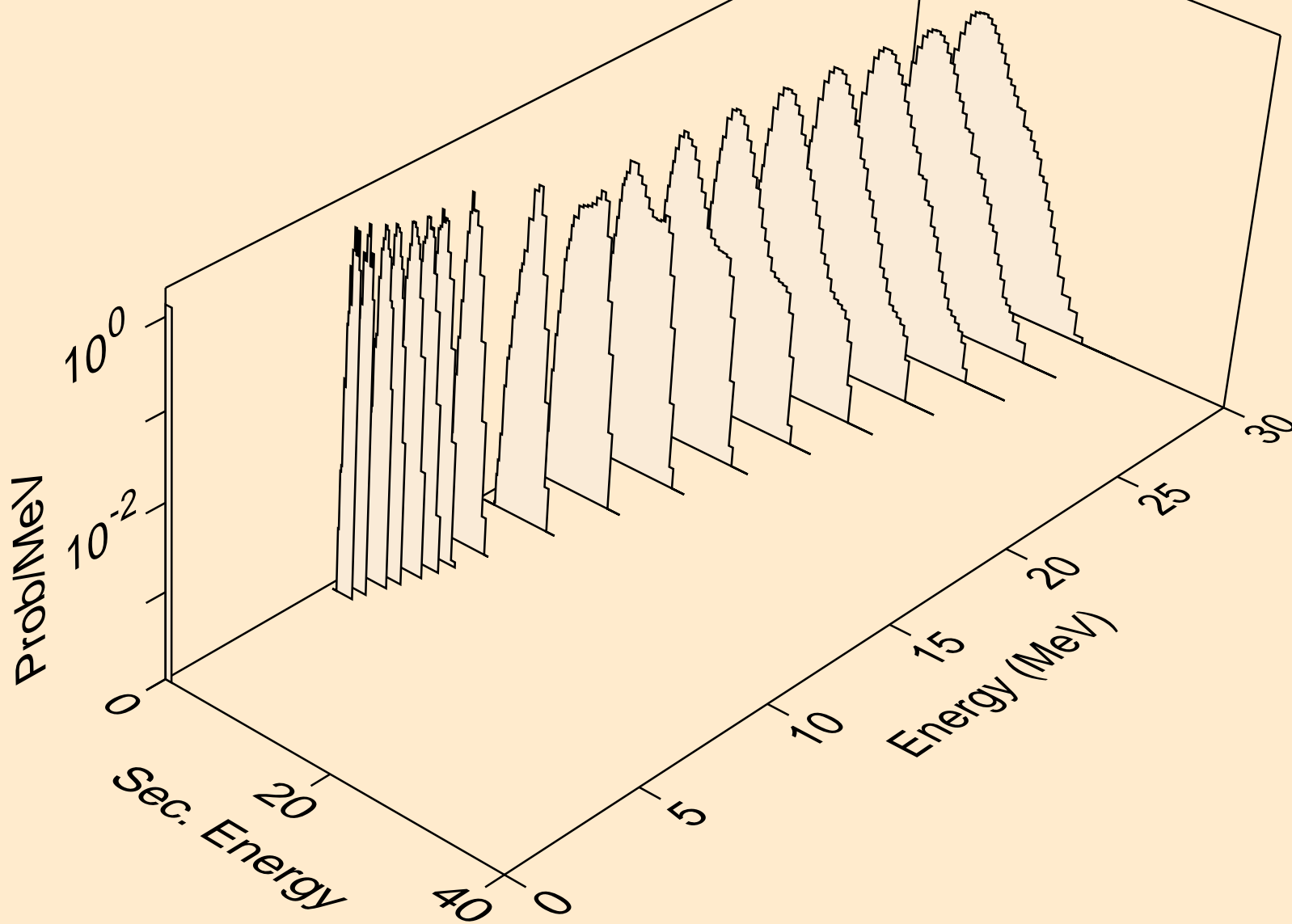
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protons from (n,p)



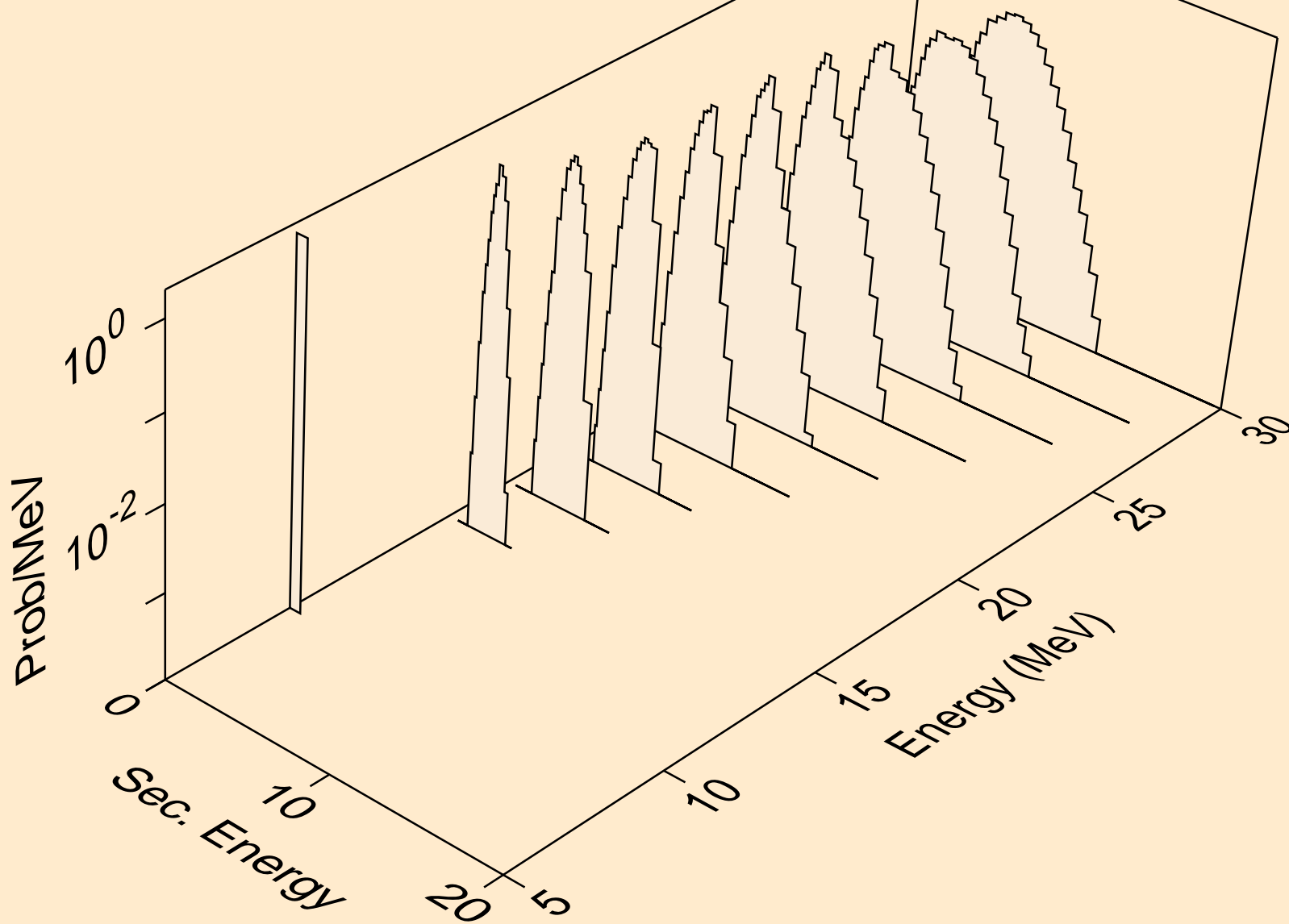
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protons from (n,2p)



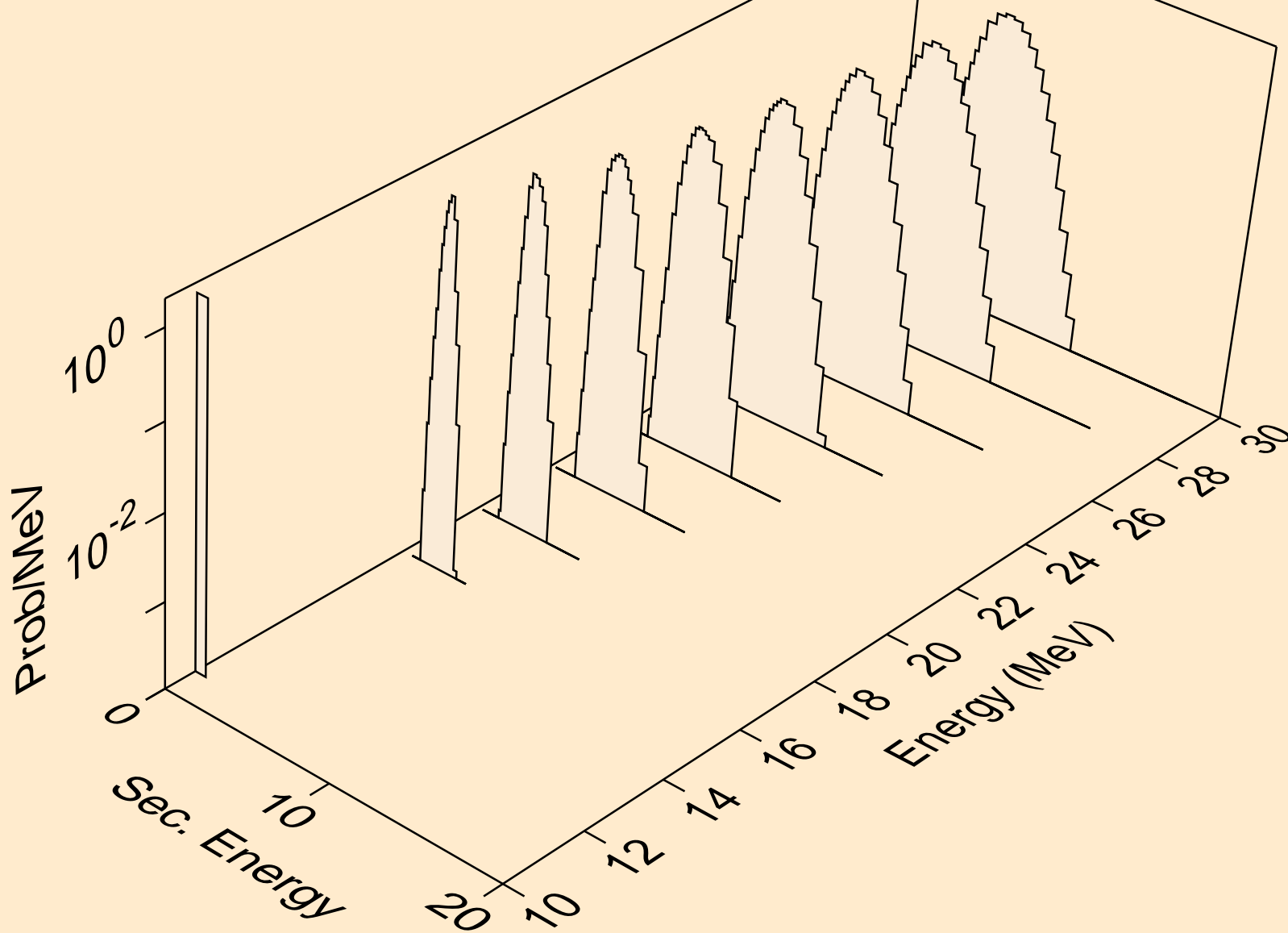
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protons from (n,p)



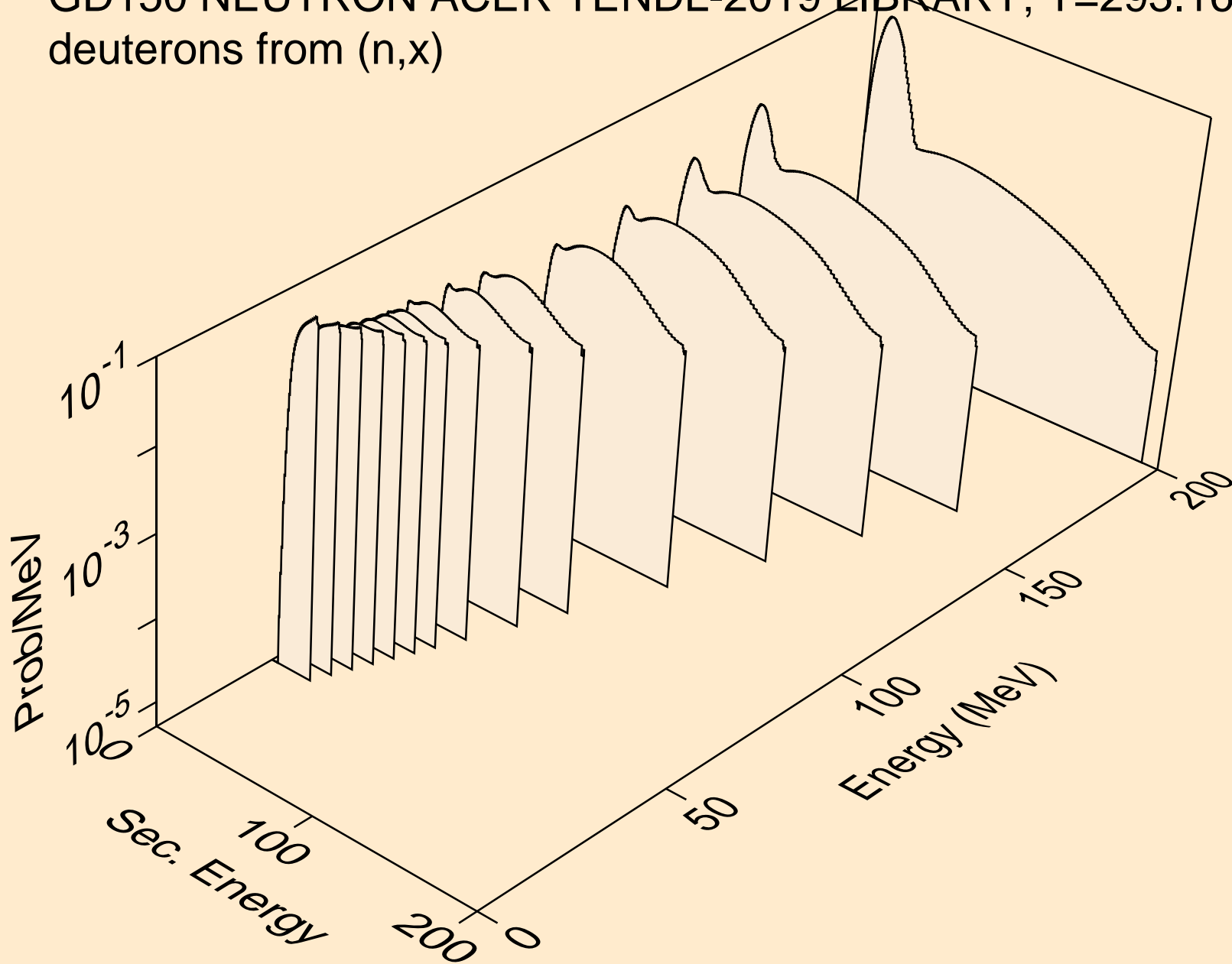
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protons from (n,pd)



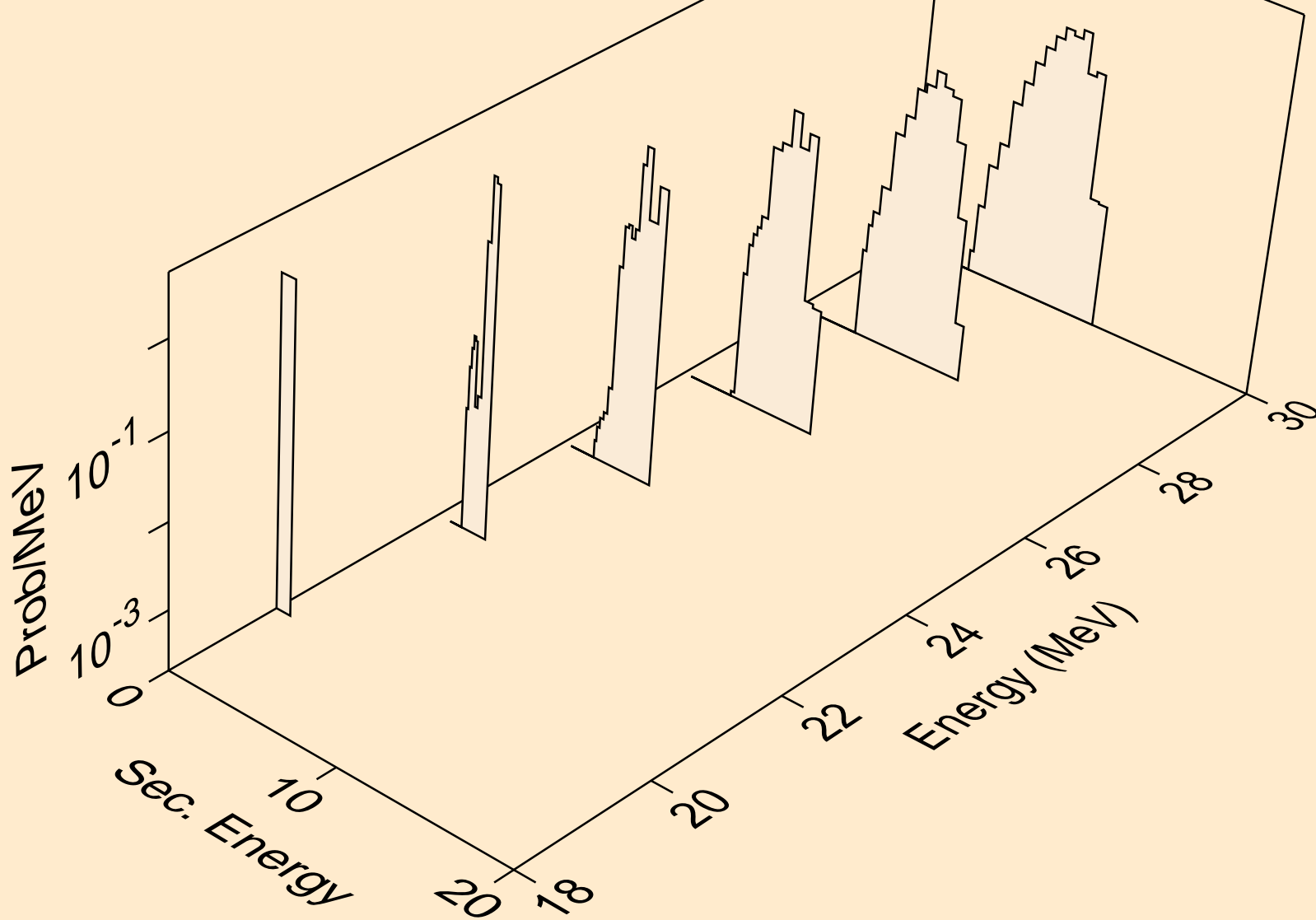
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protons from (n,pt)



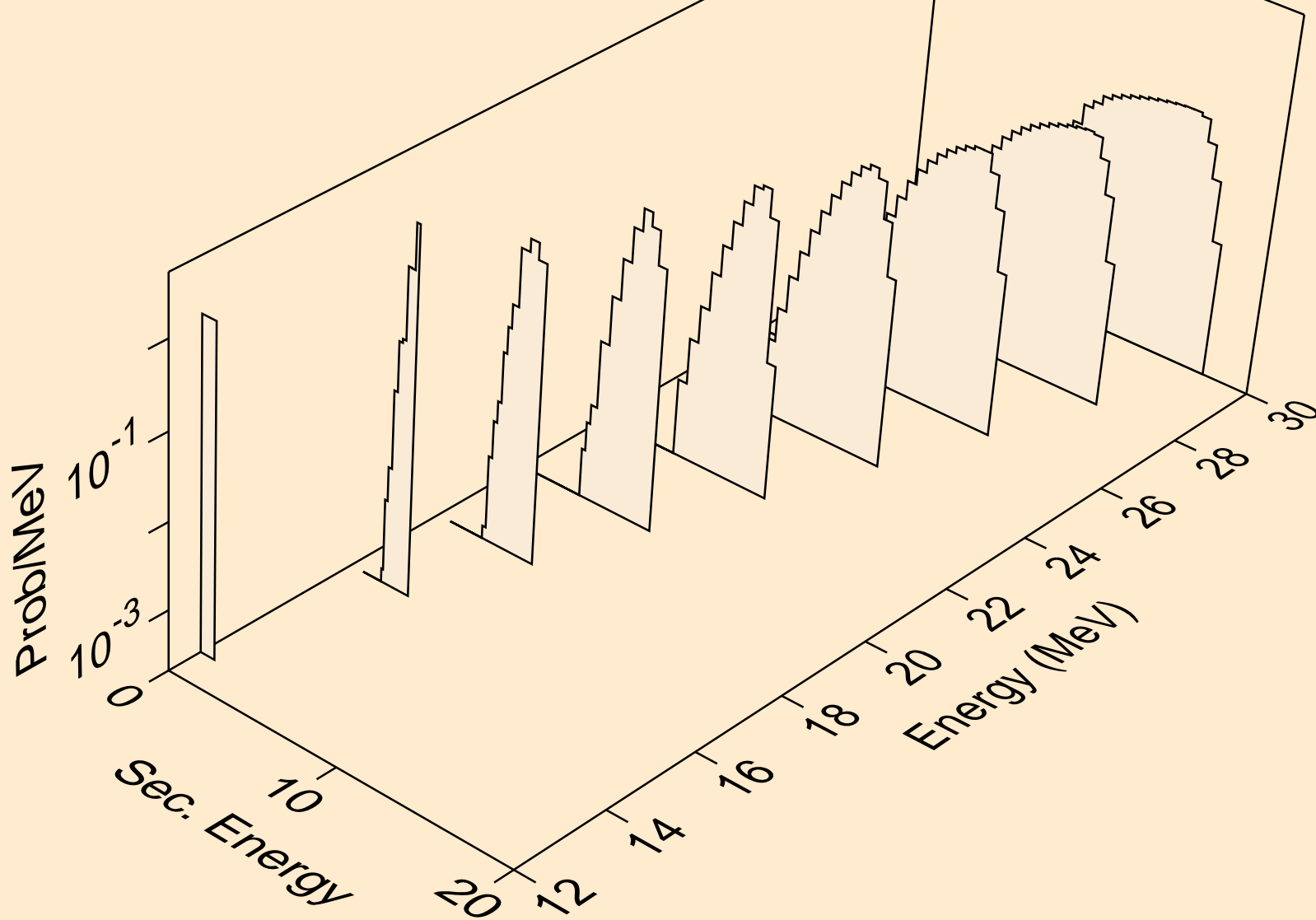
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deuterons from (n,x)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)

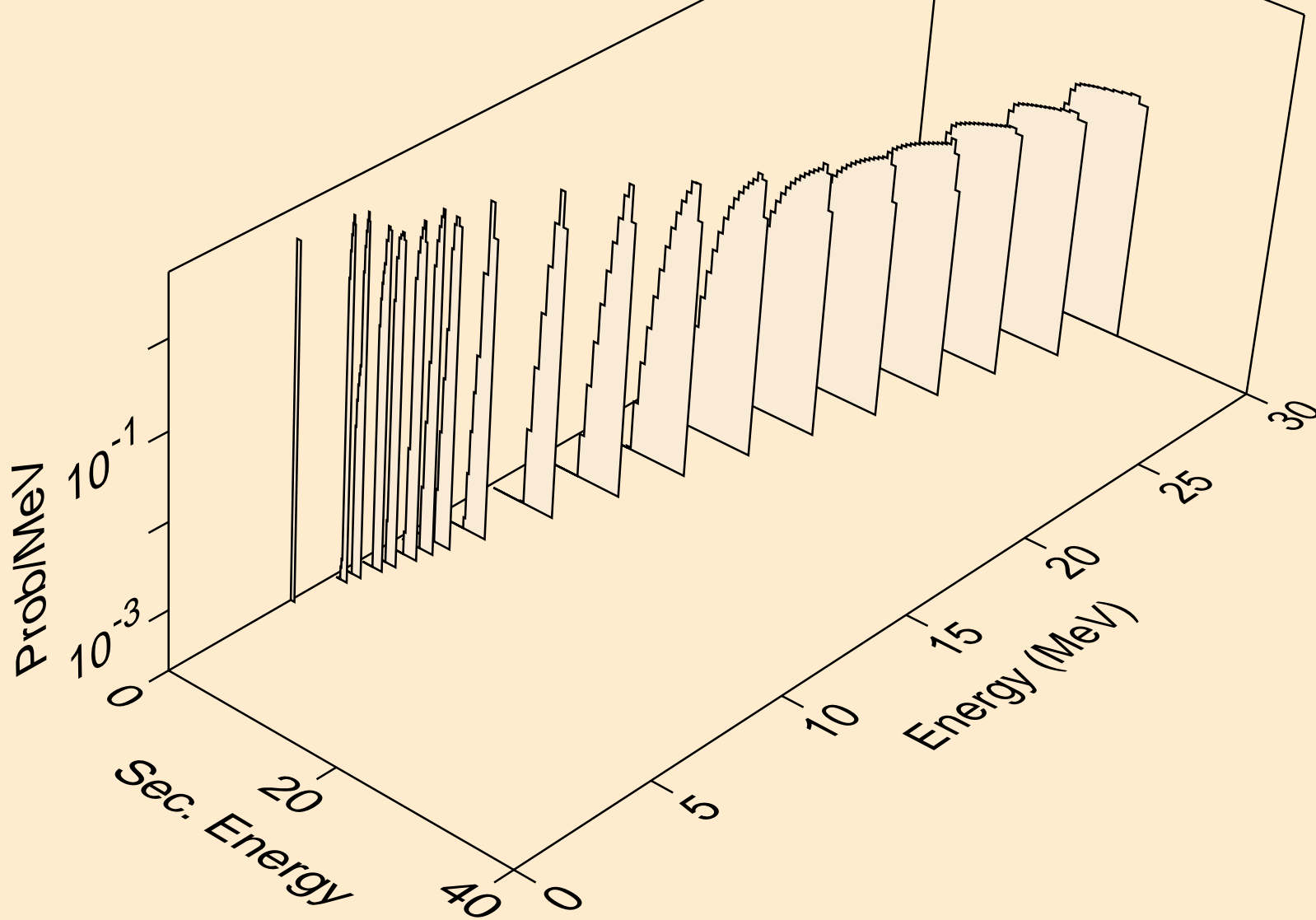


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deuterons from (n,n\*)d

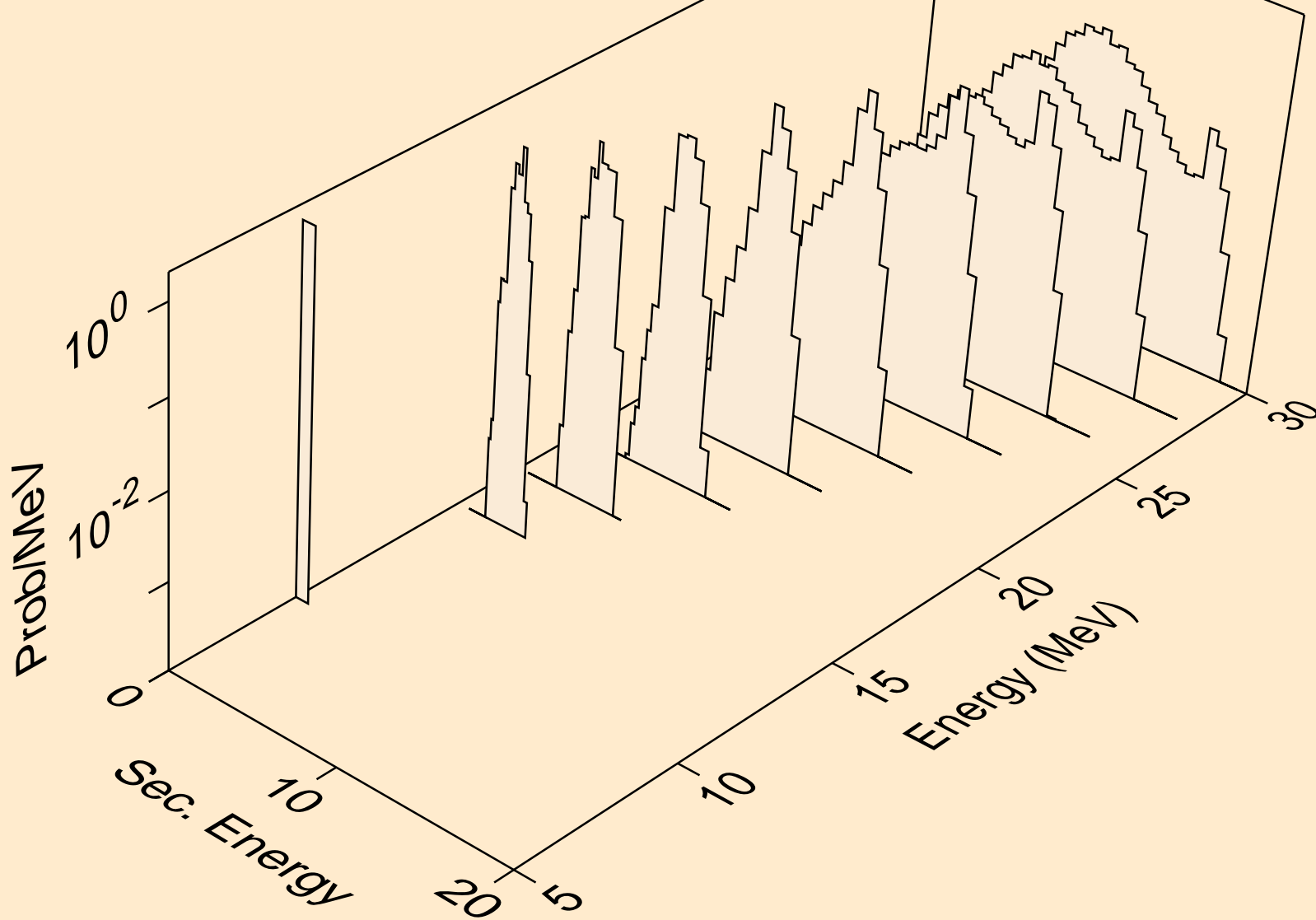




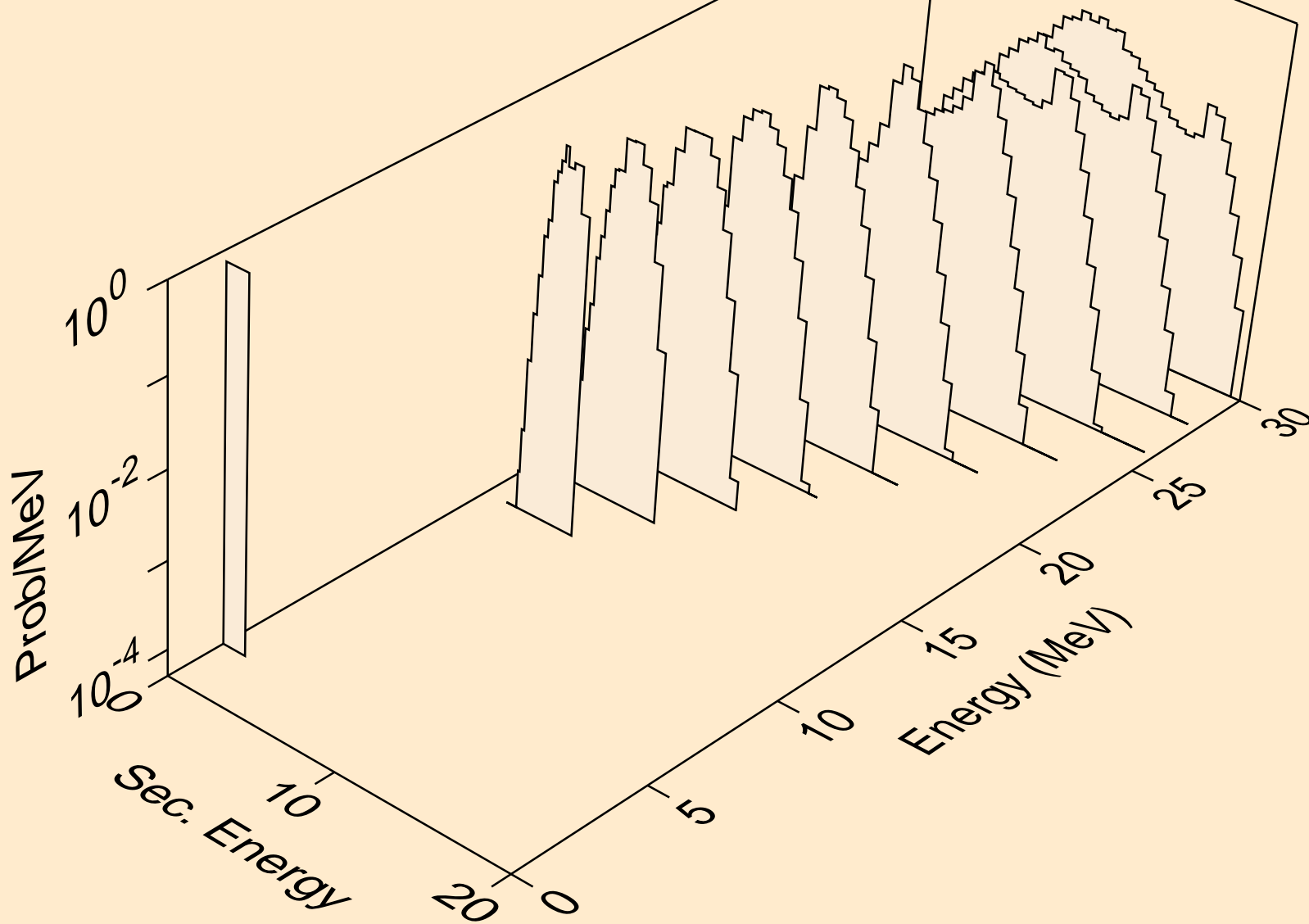
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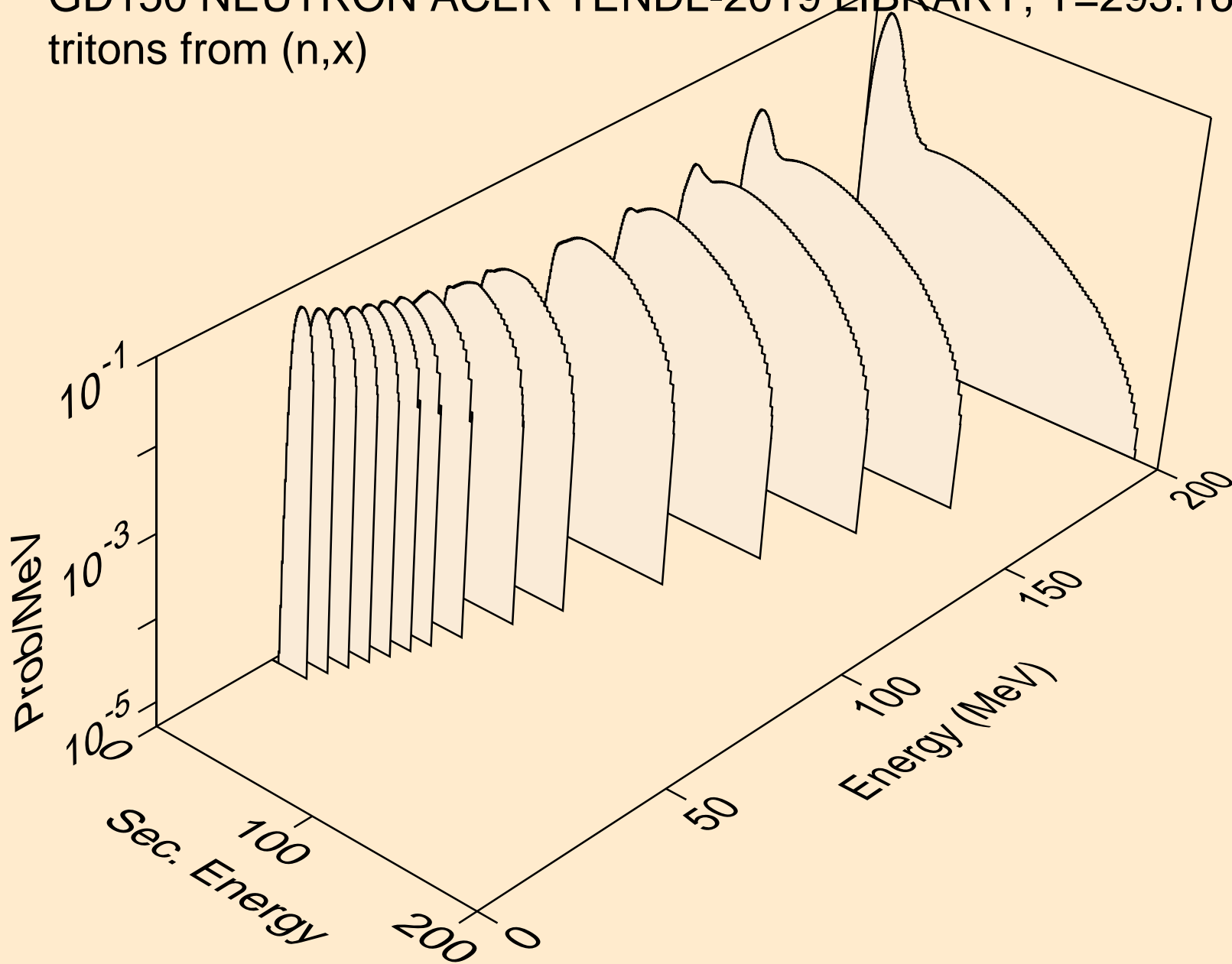
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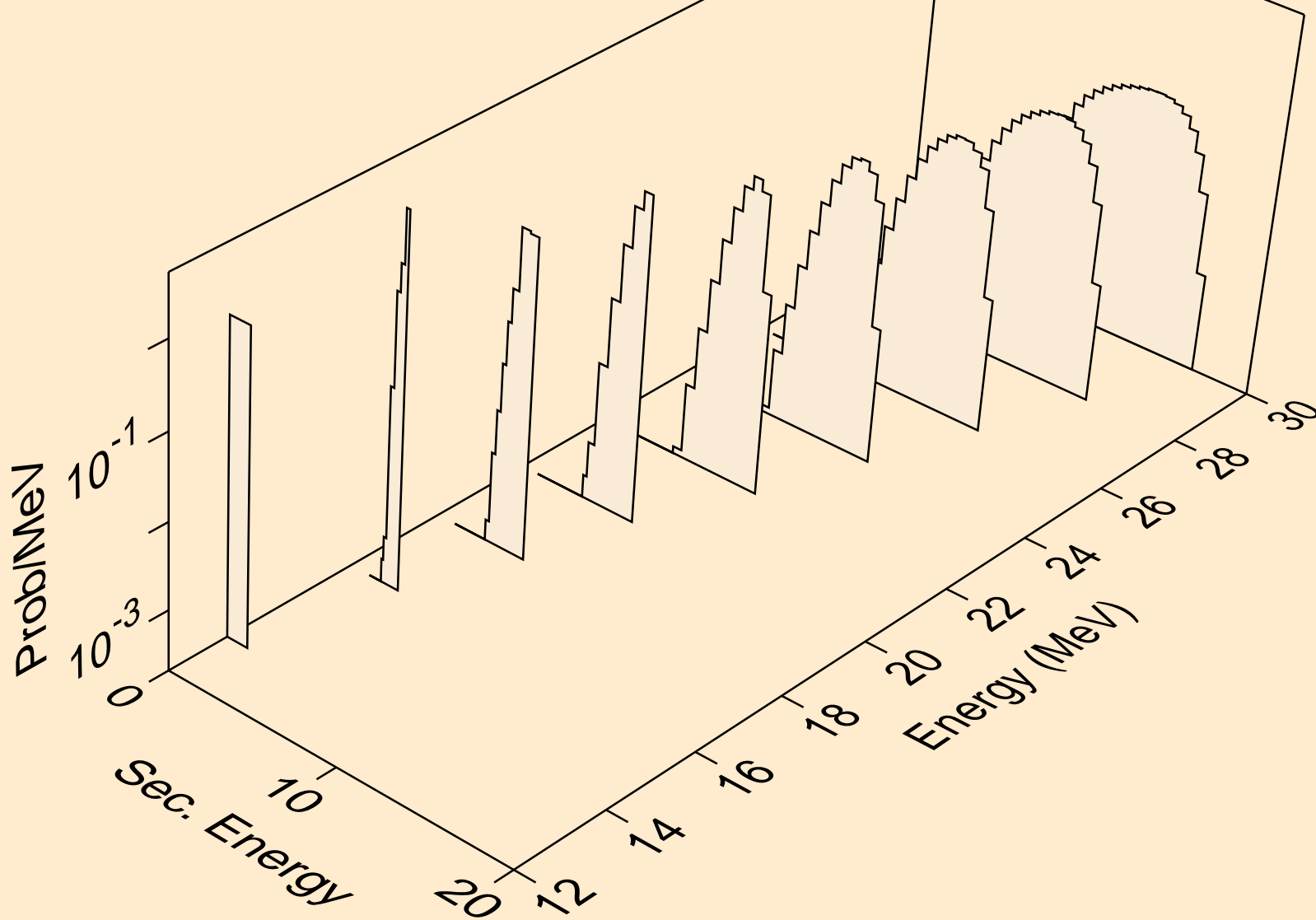
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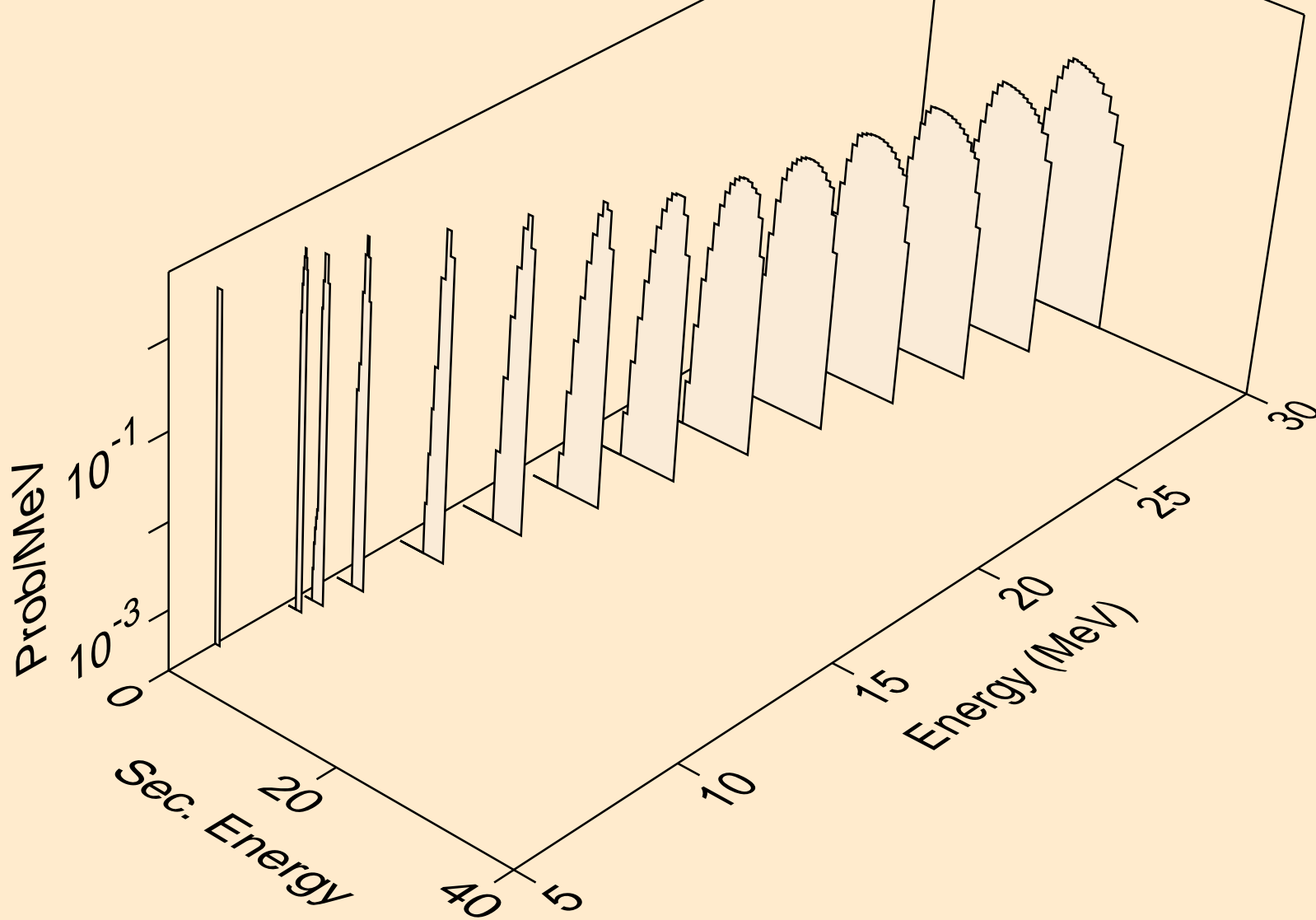
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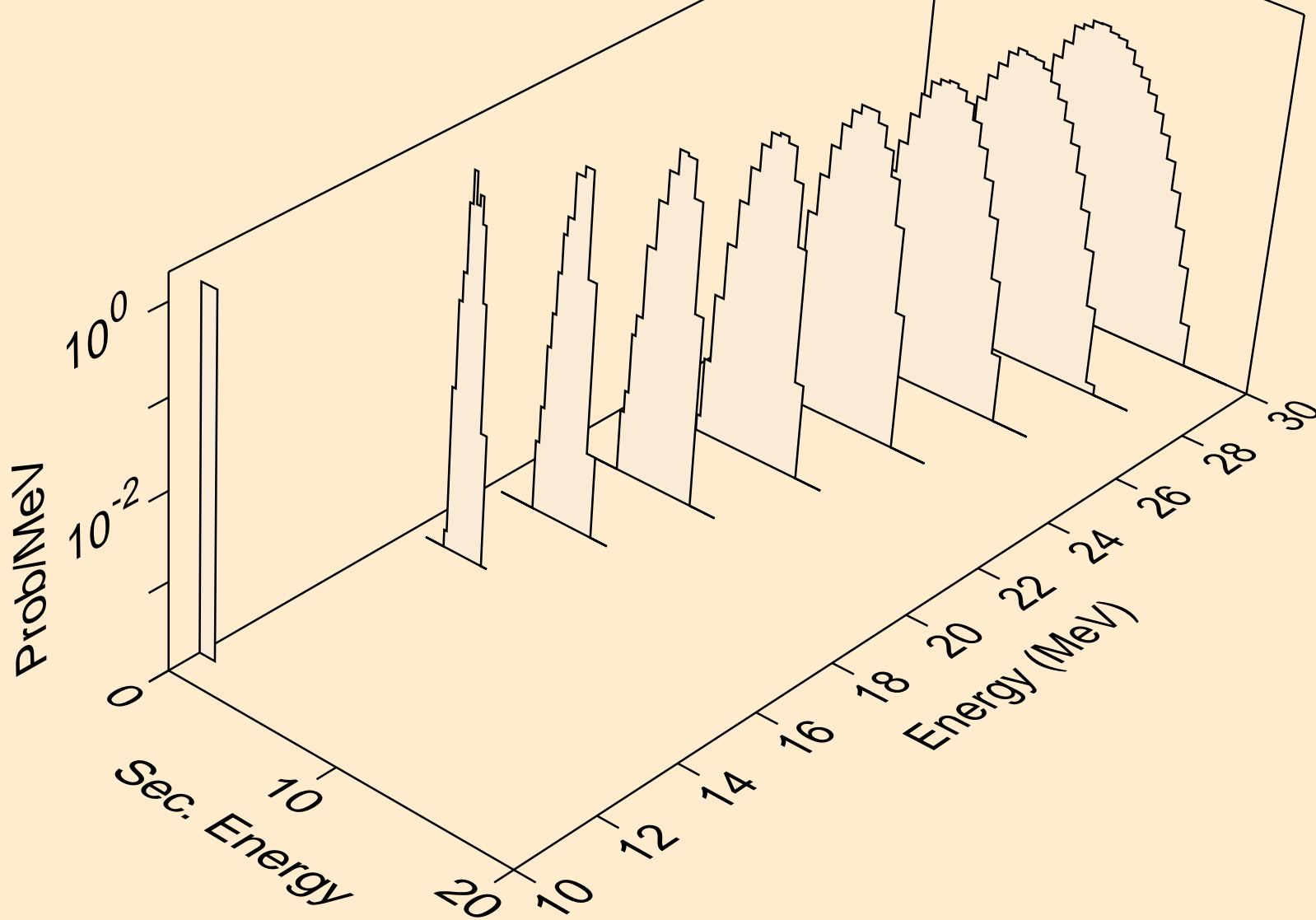
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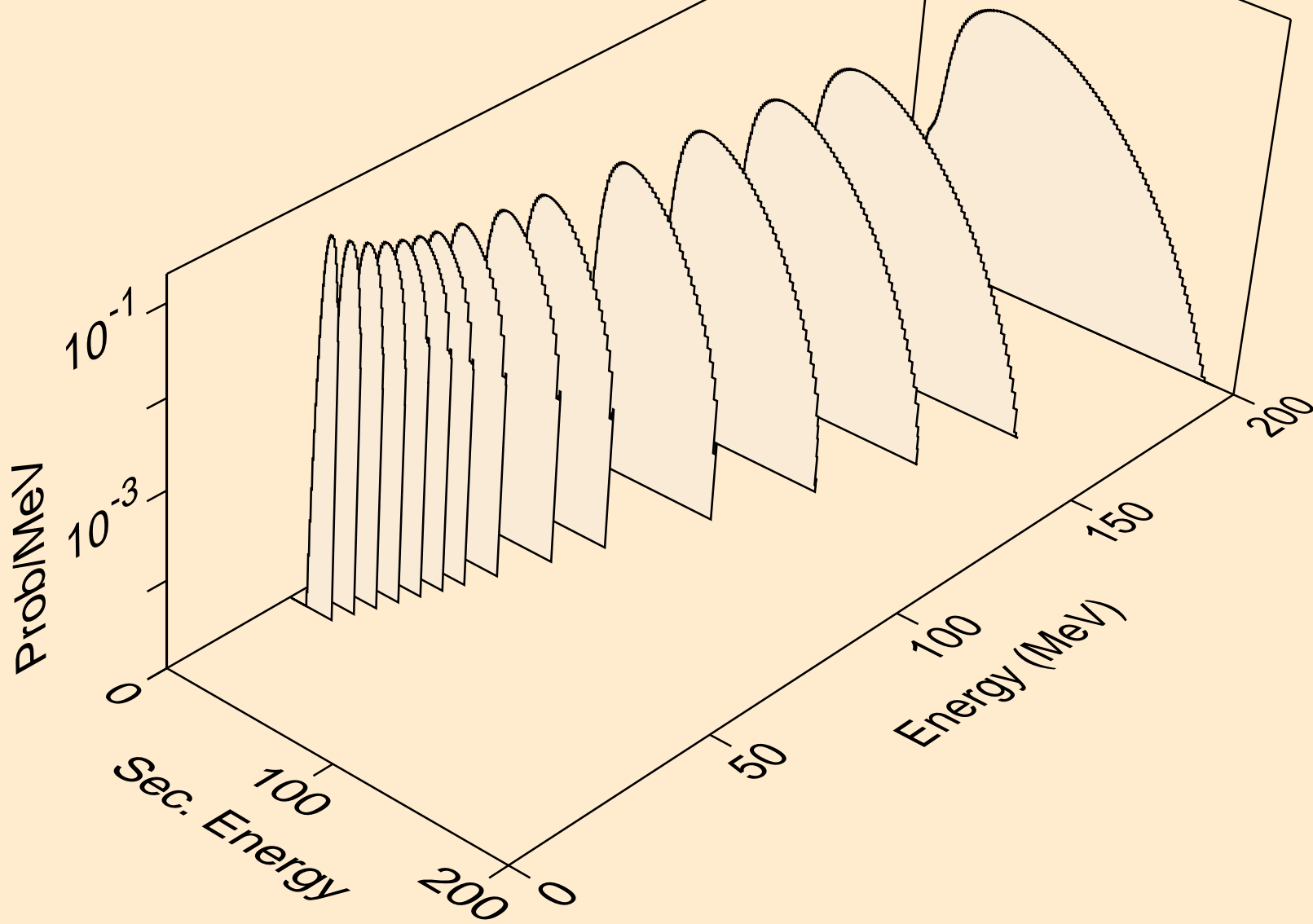
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,pt)

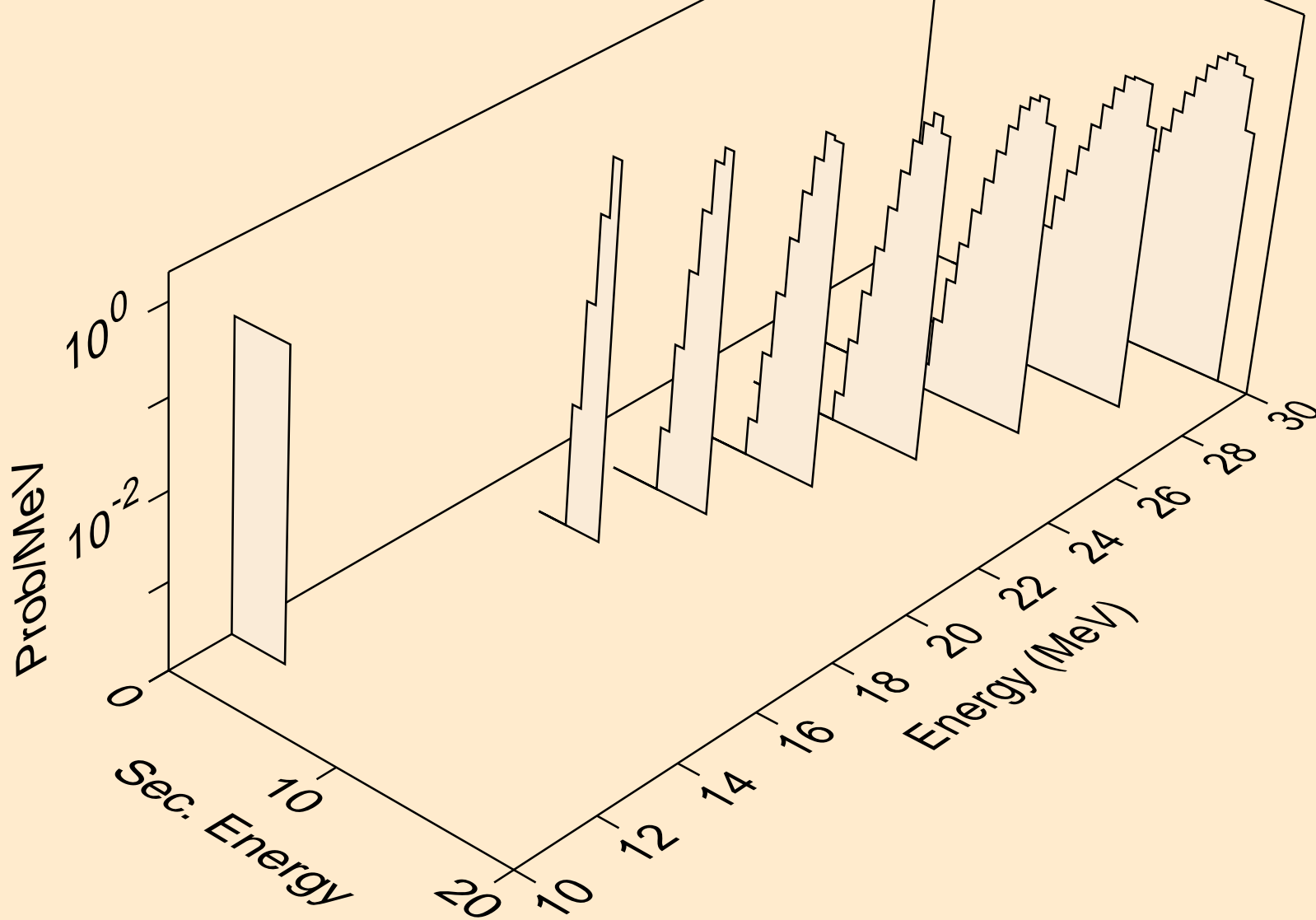


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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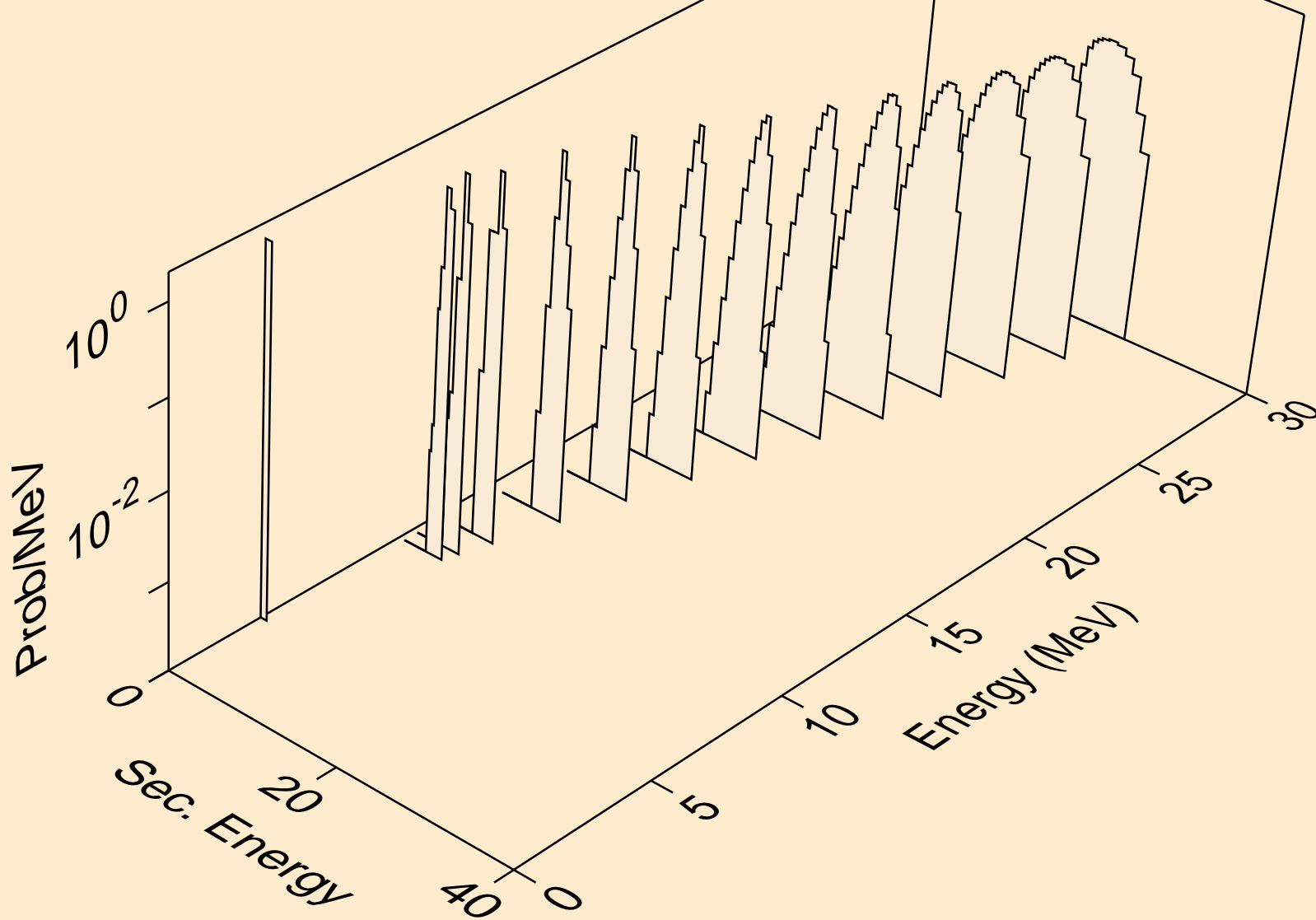




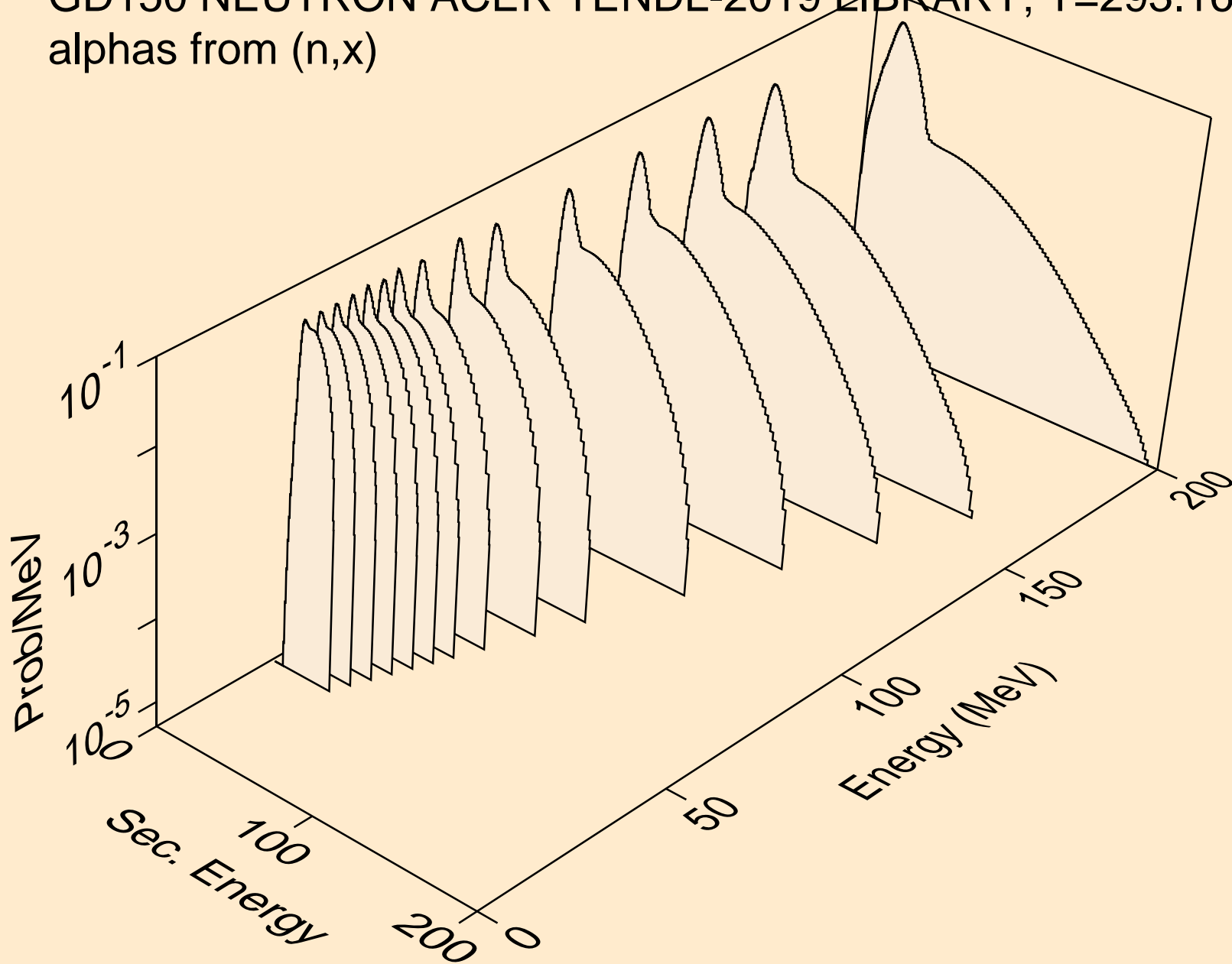
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he3s from (n,n\*)he3



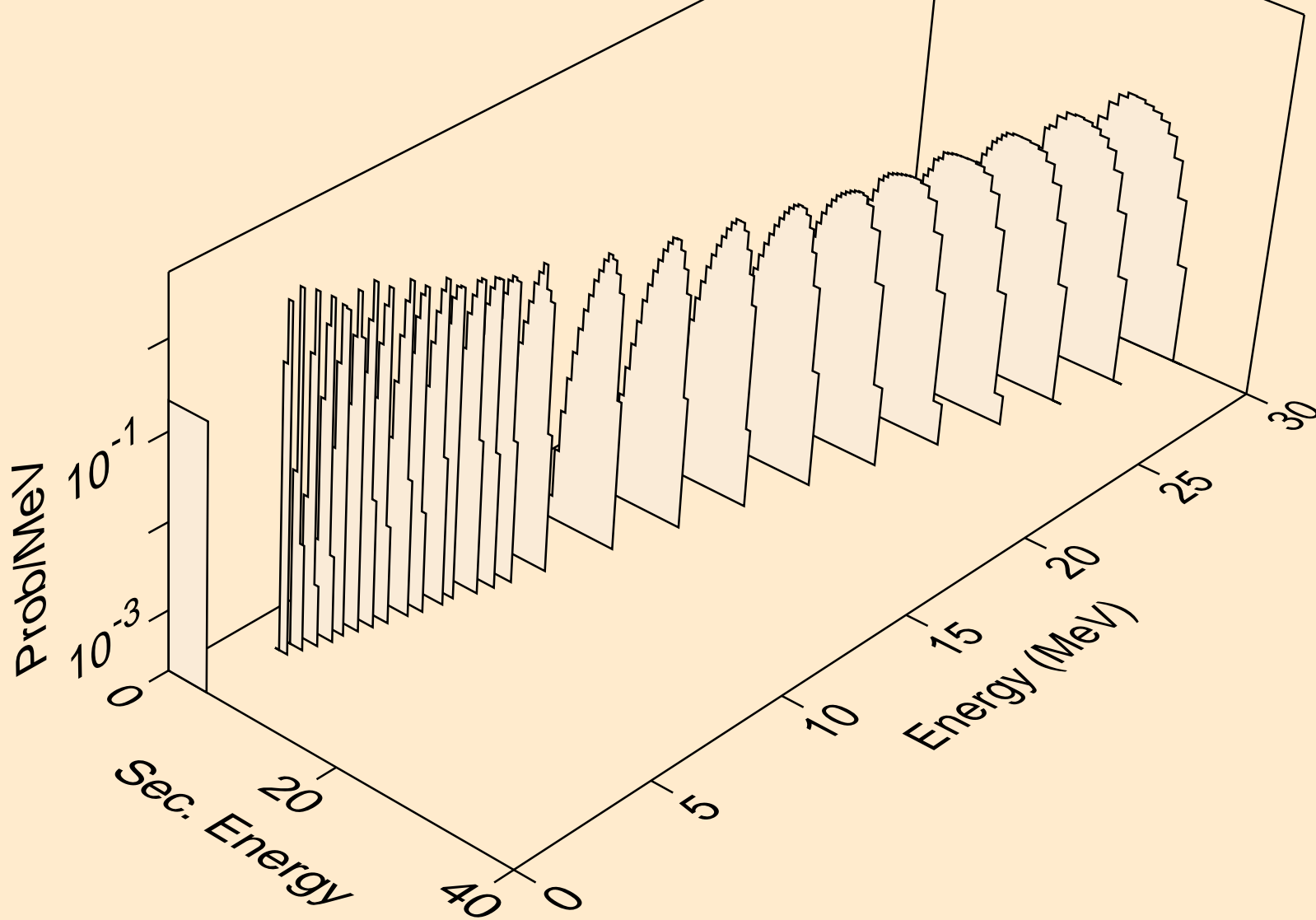
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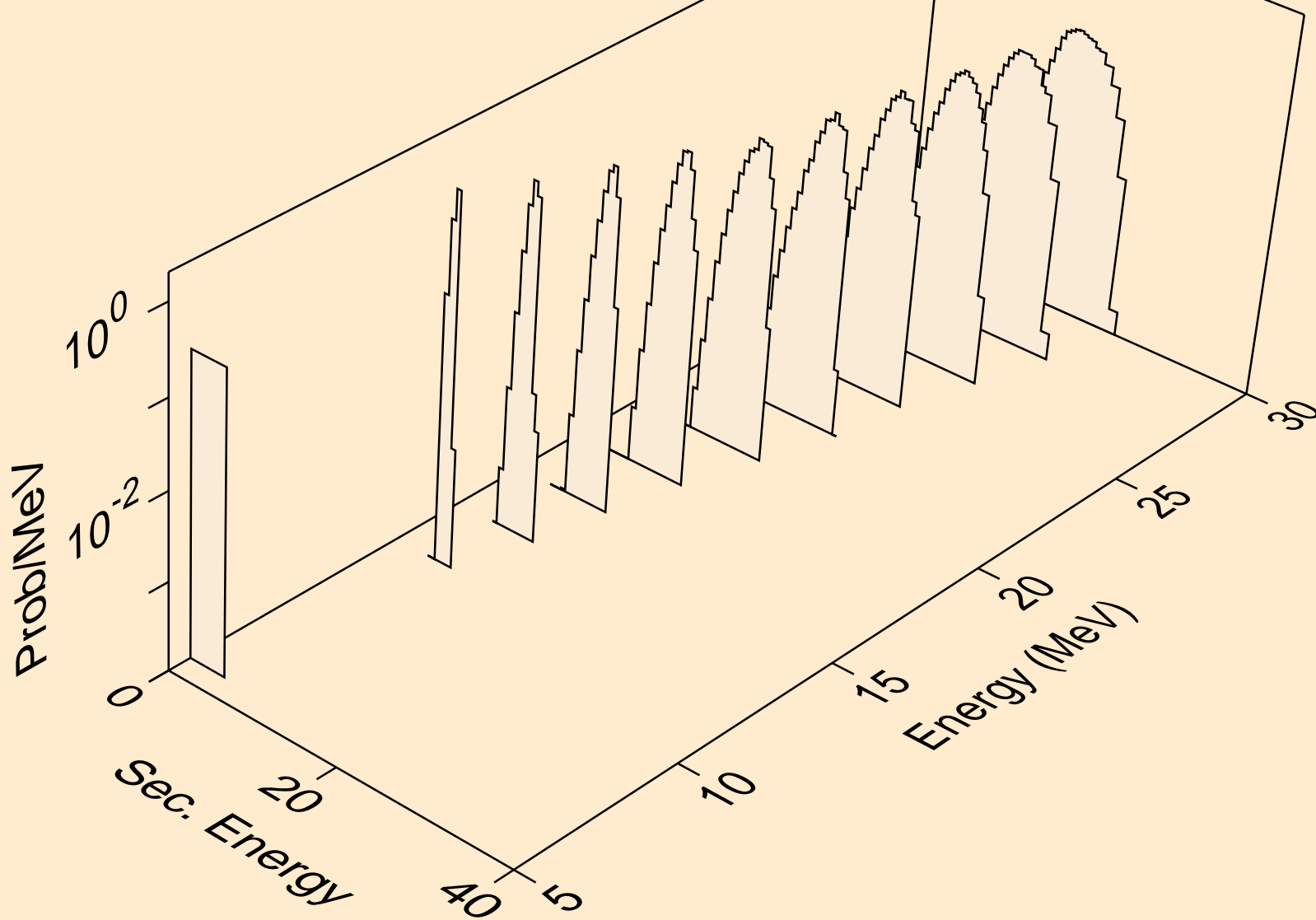
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alphas from (n,x)



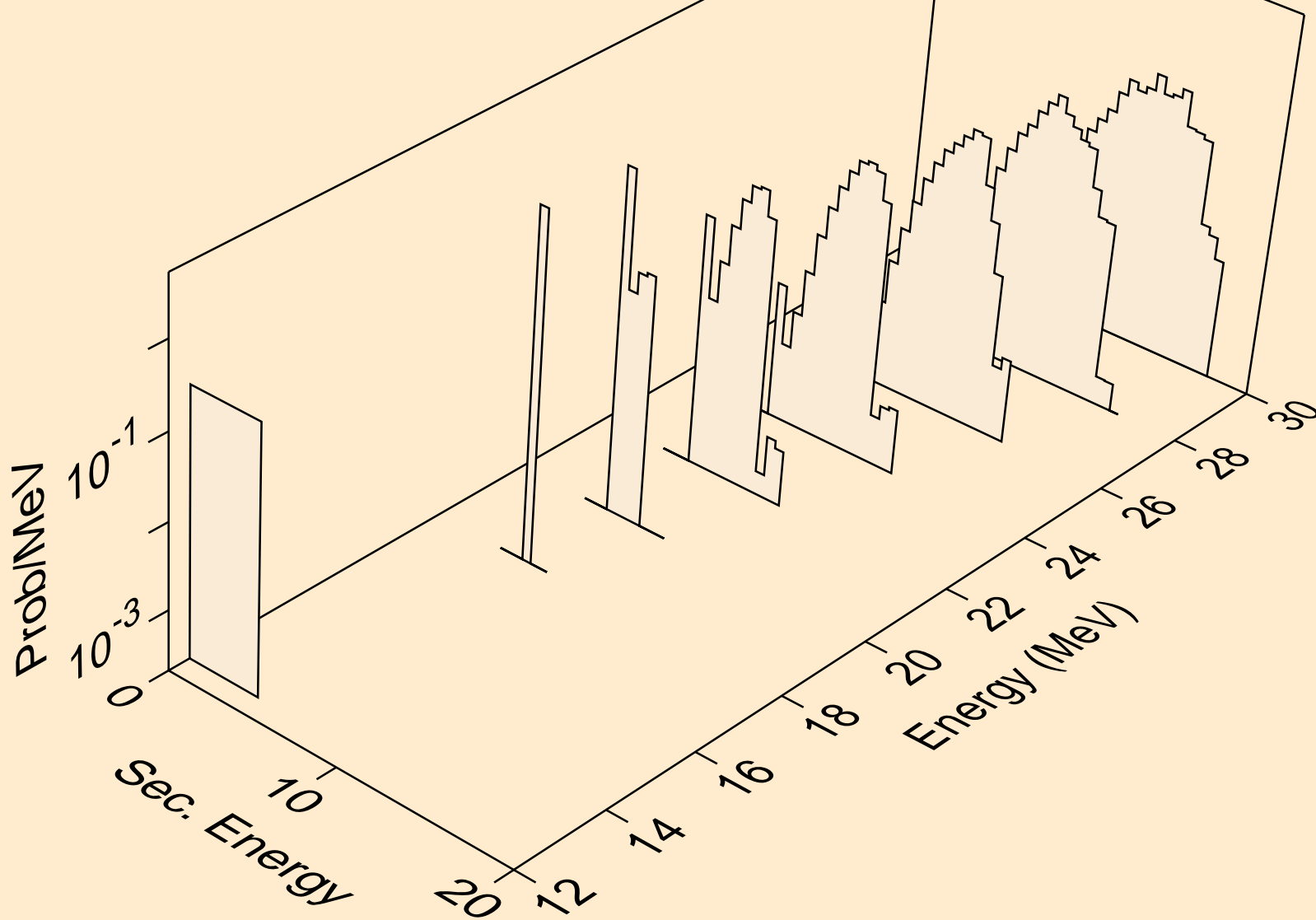
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



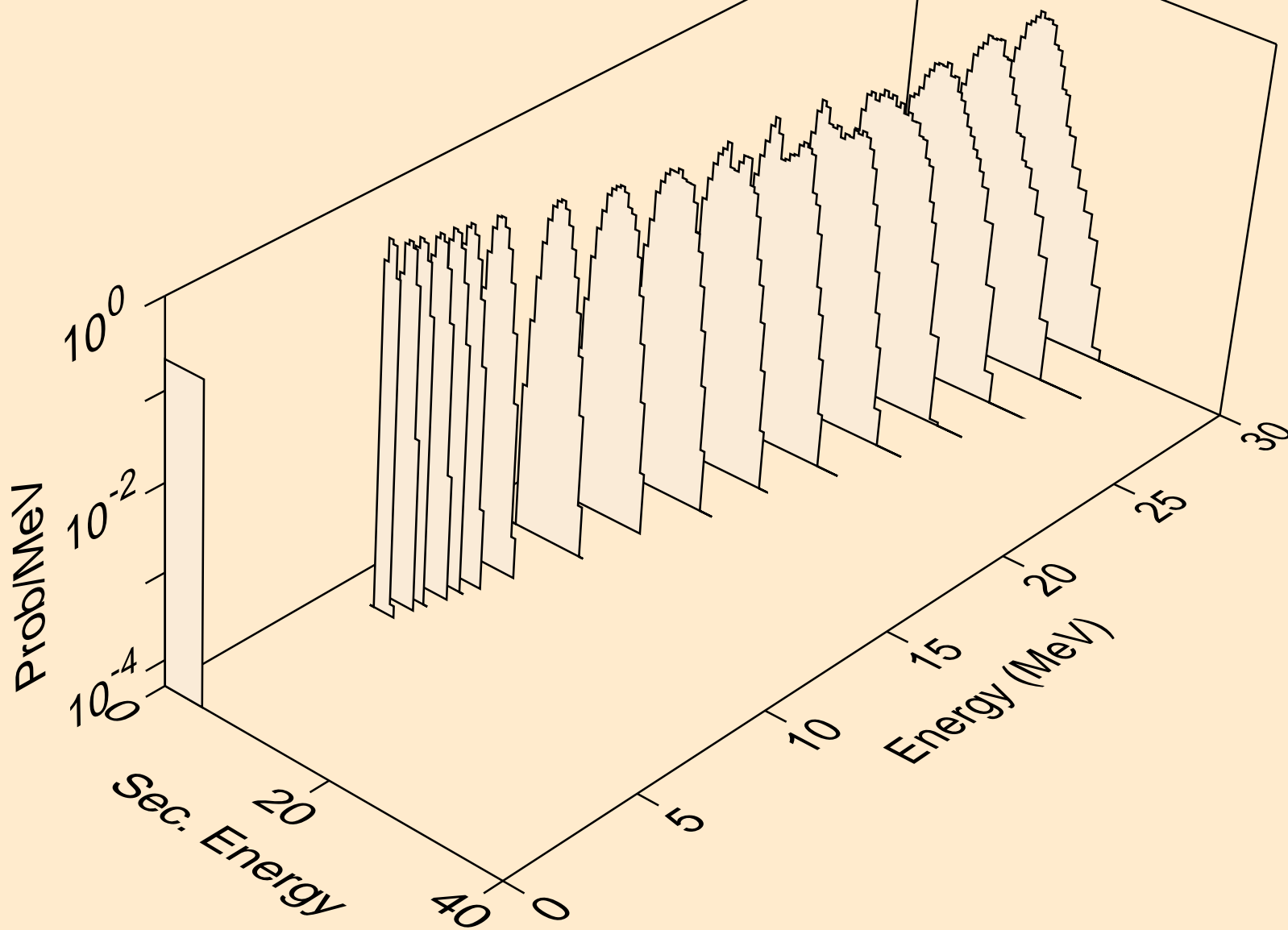
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



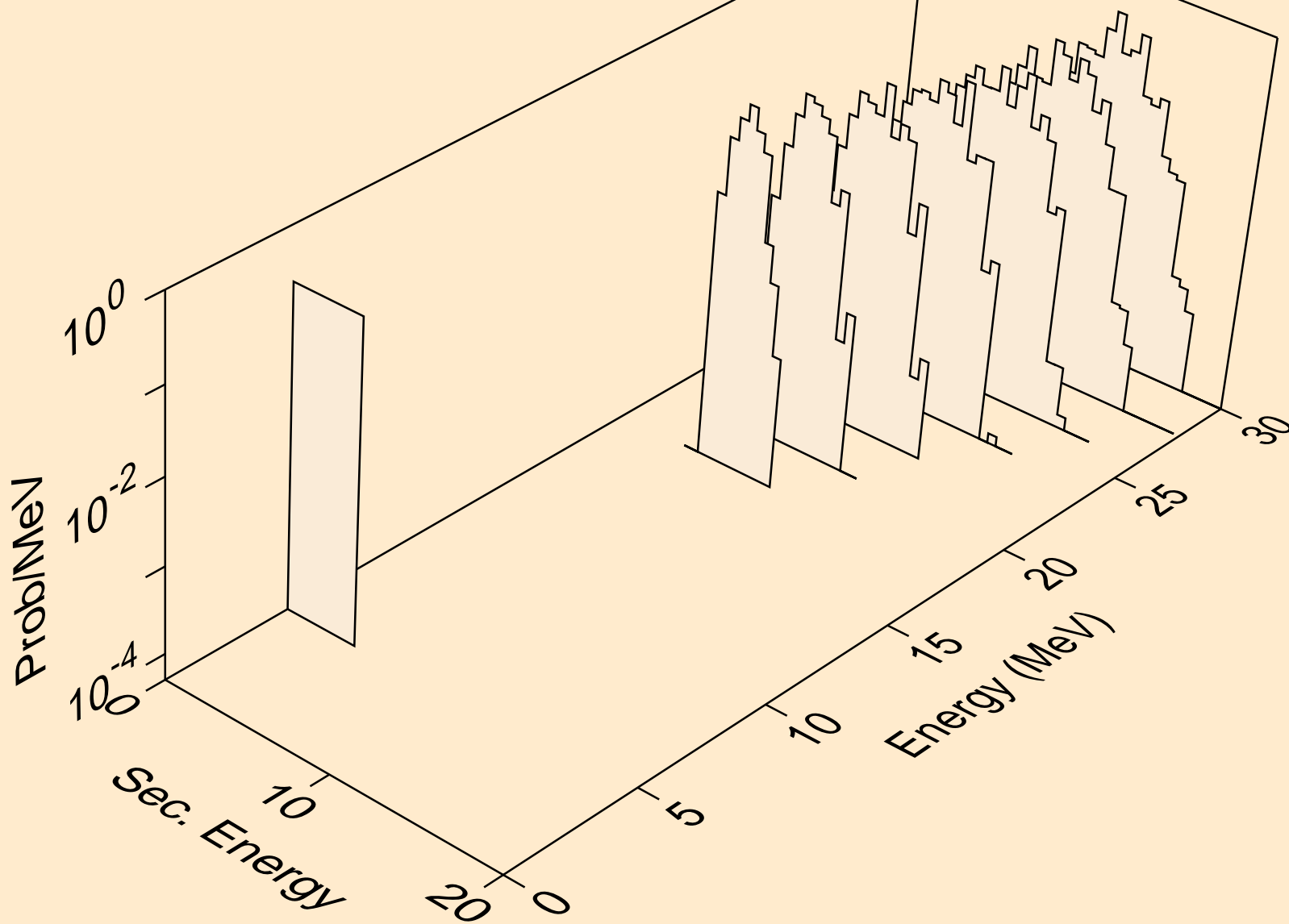
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a

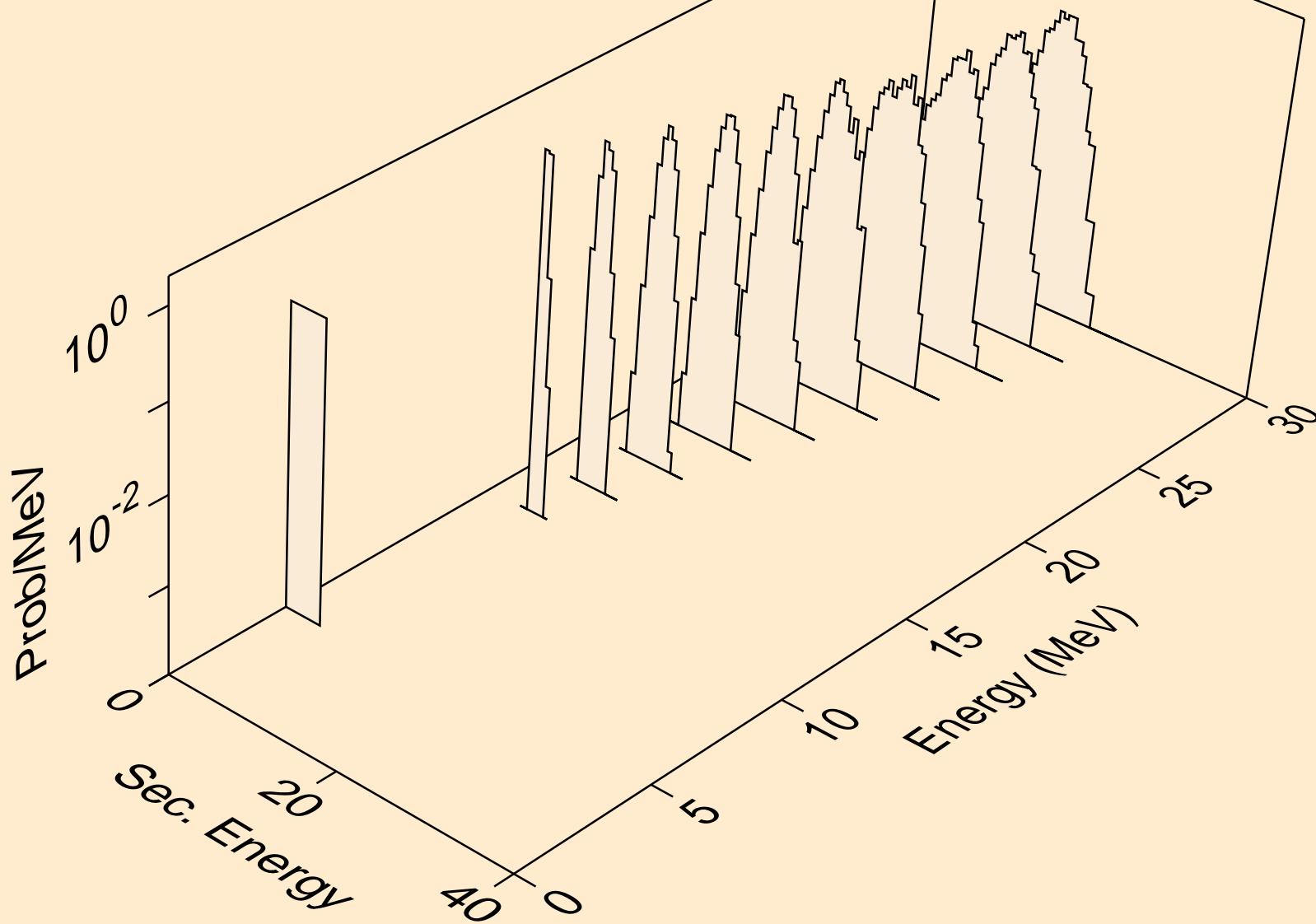


GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)2a

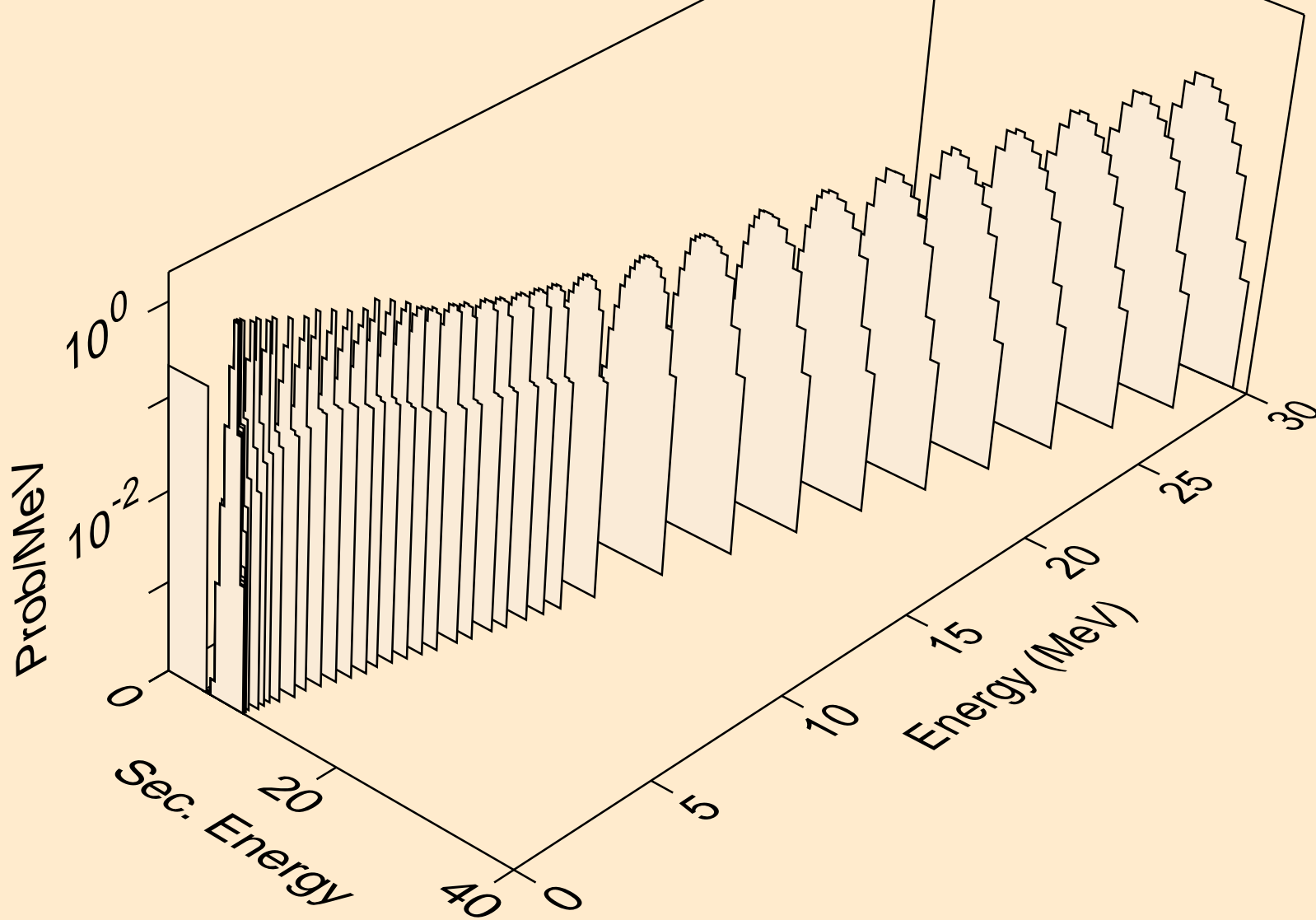




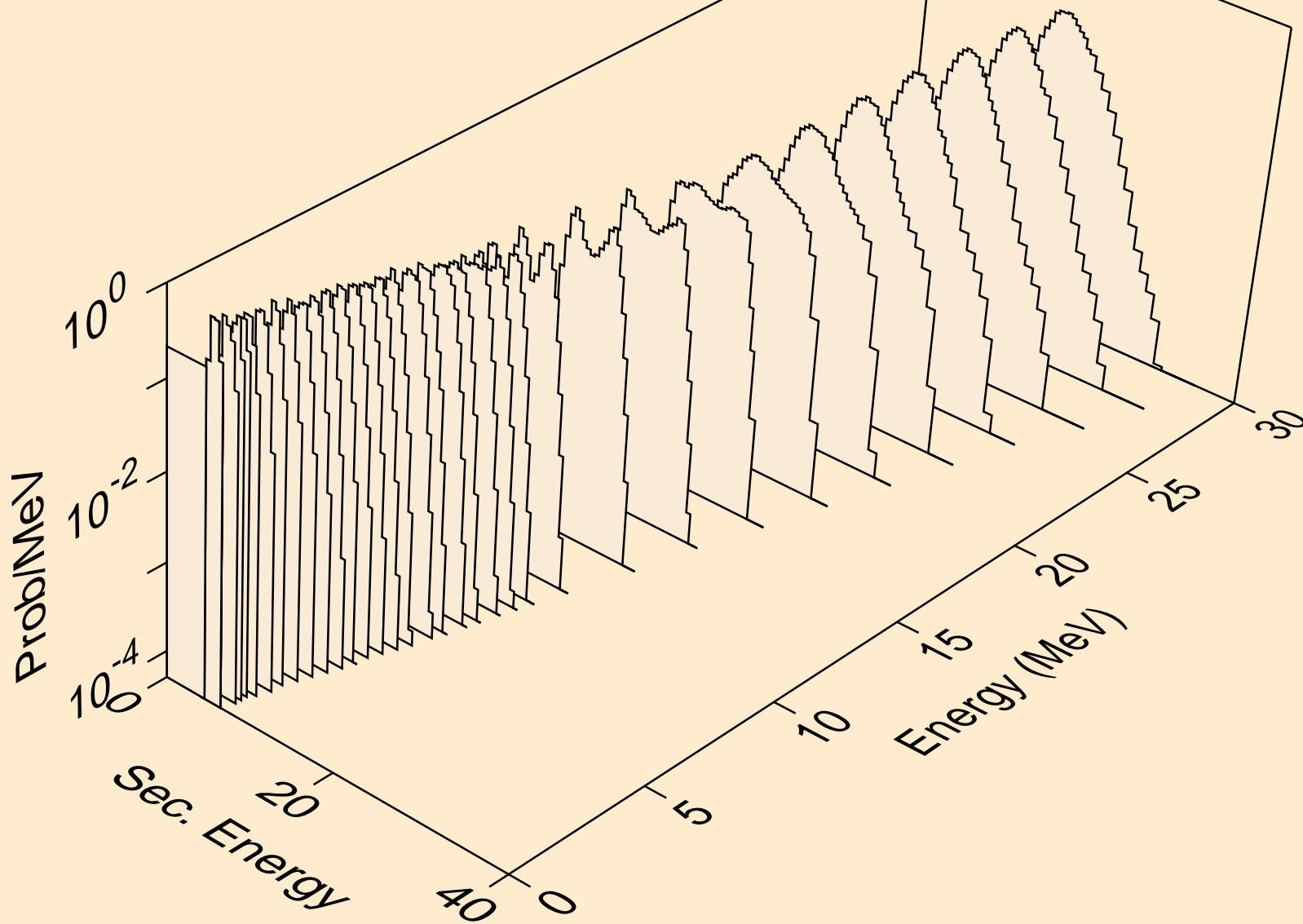
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alphas from (n,npa)



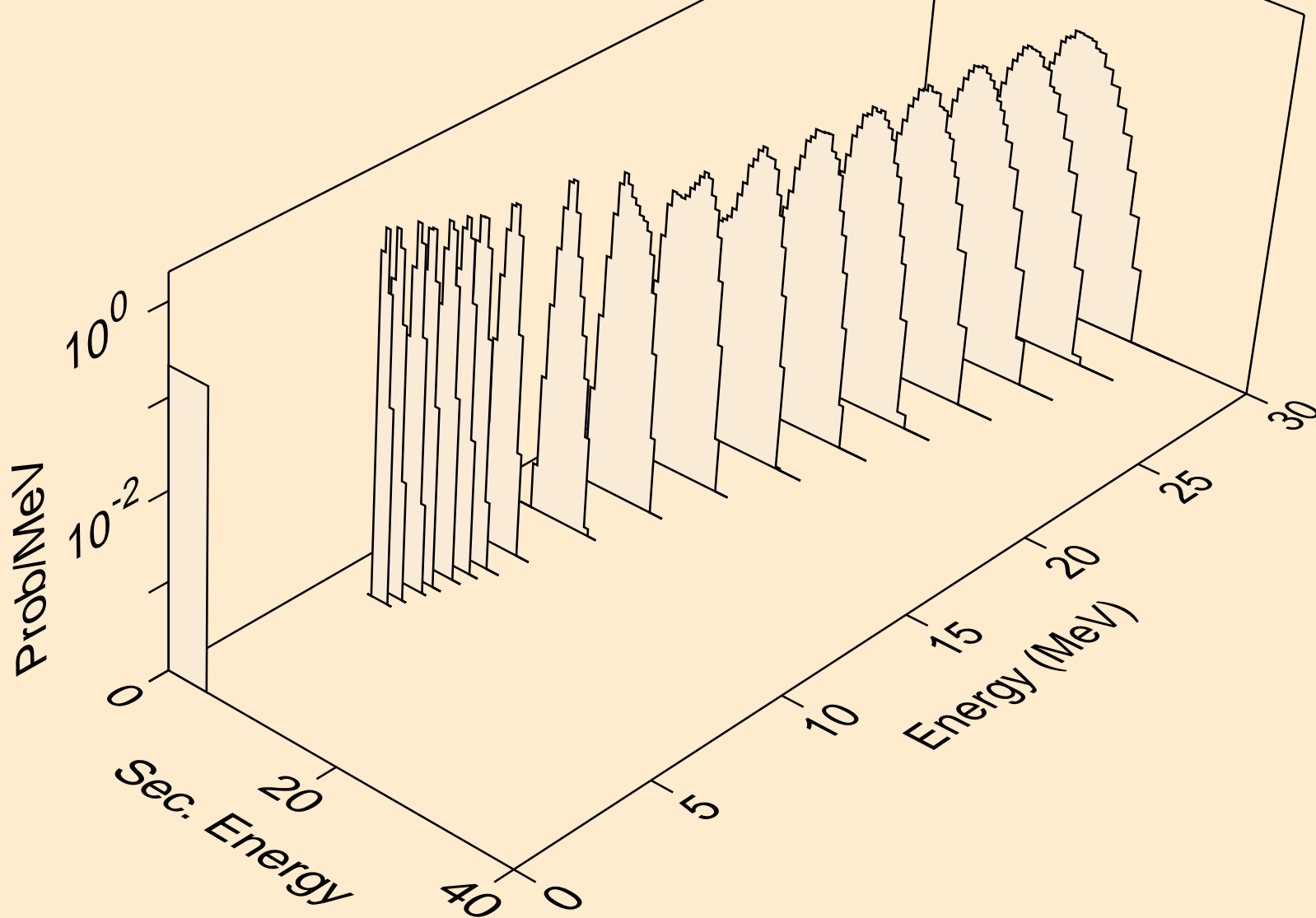
GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



GD150 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

