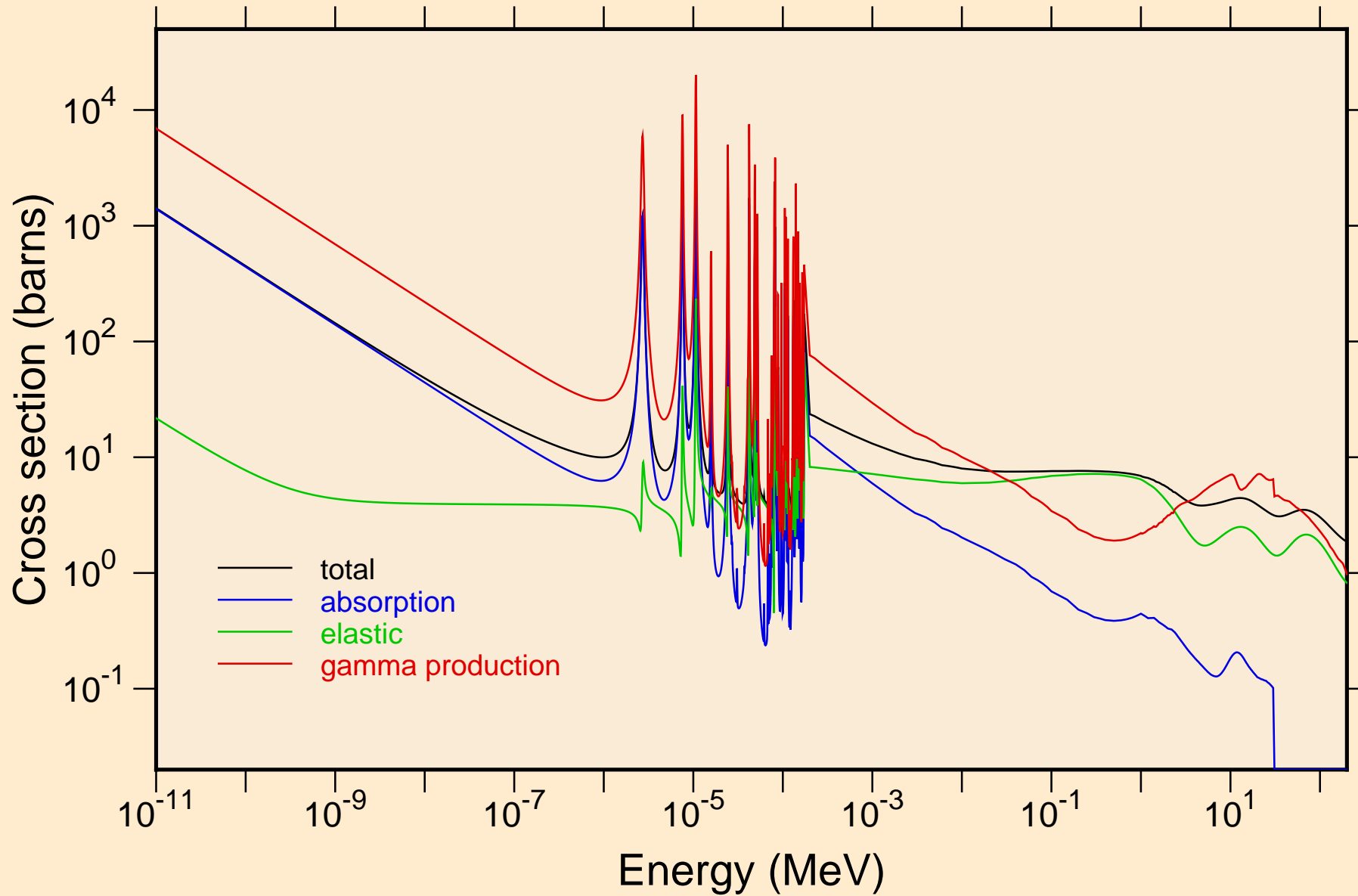
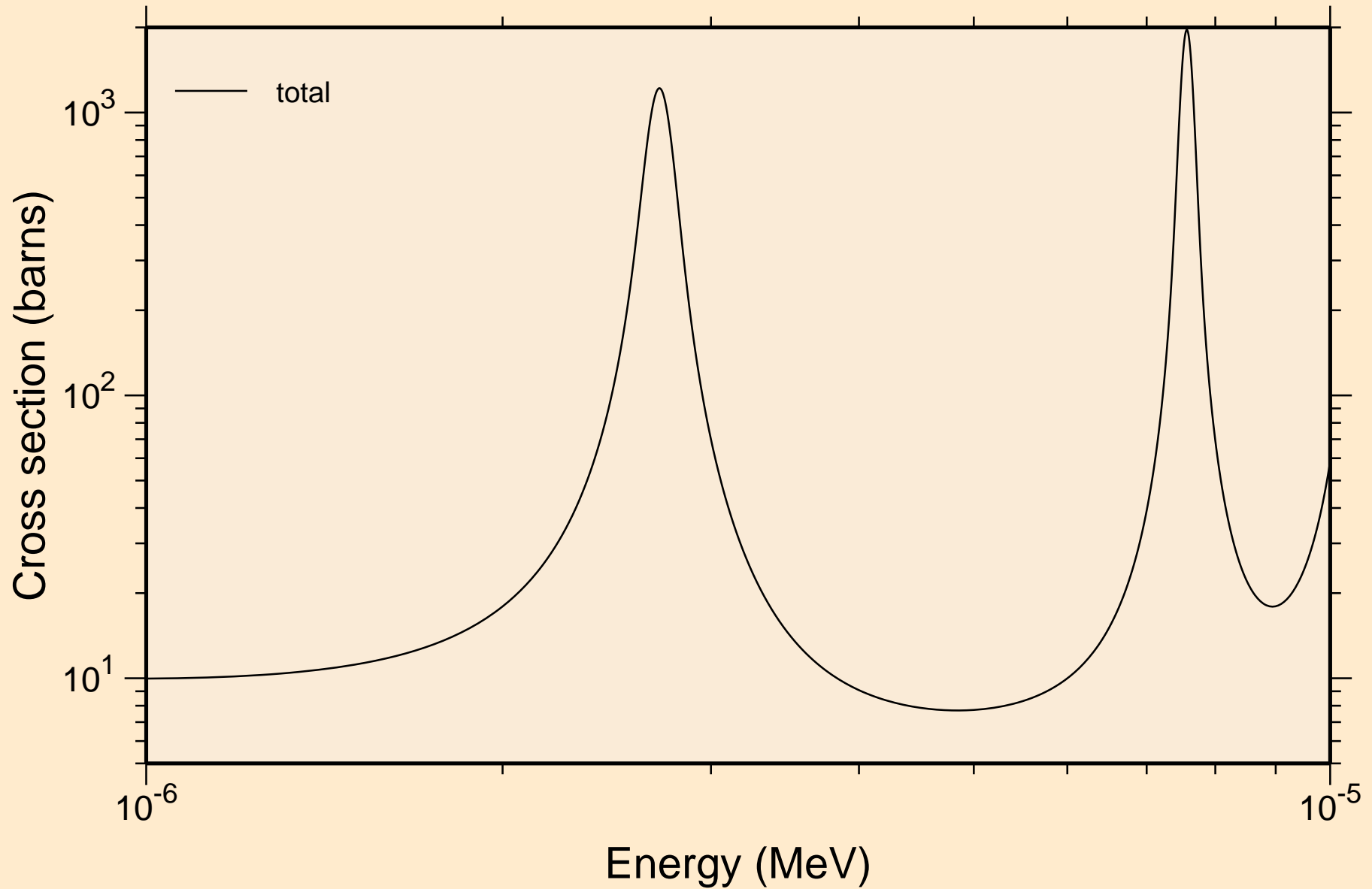


# IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

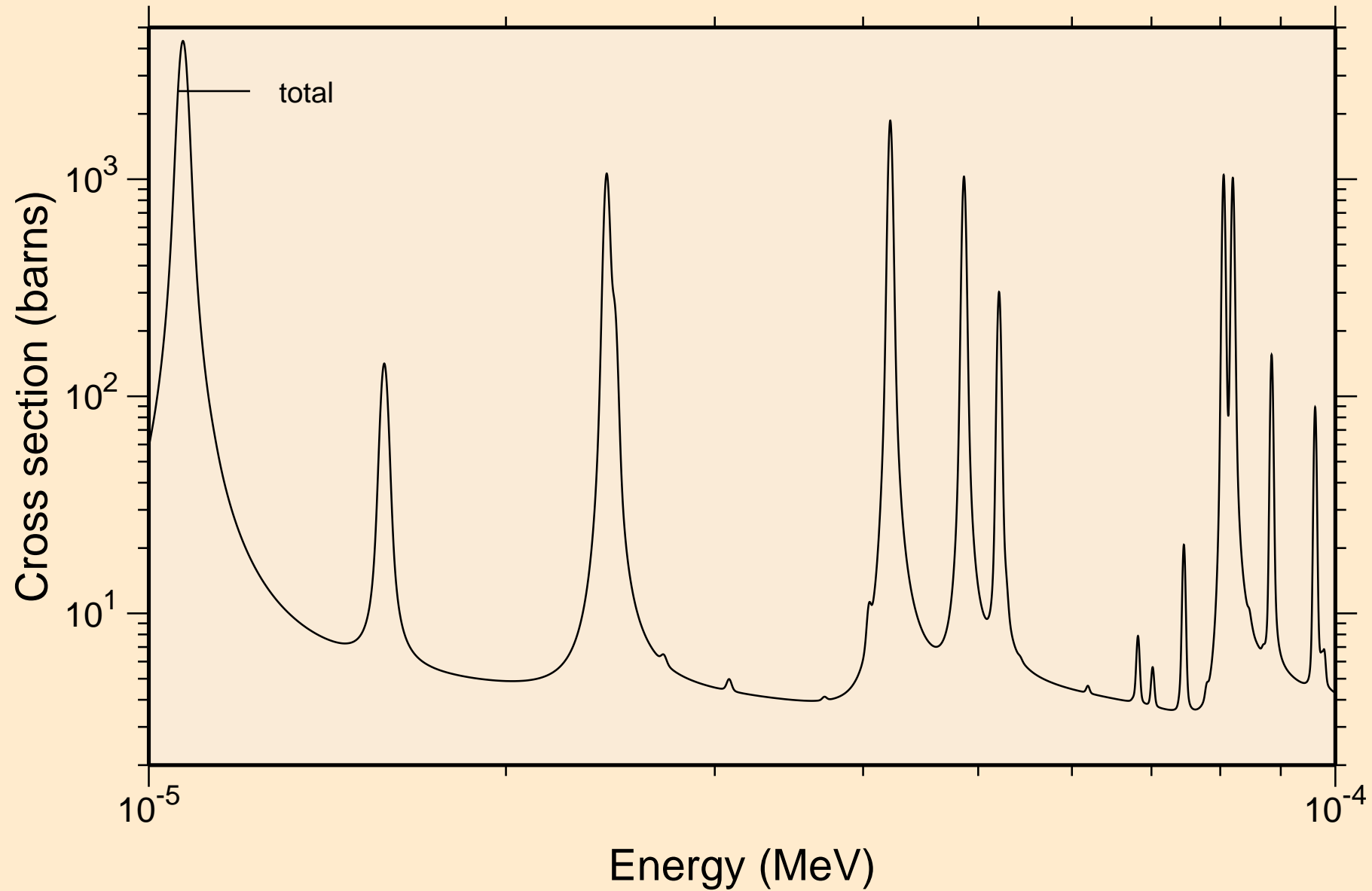
## Principal cross sections



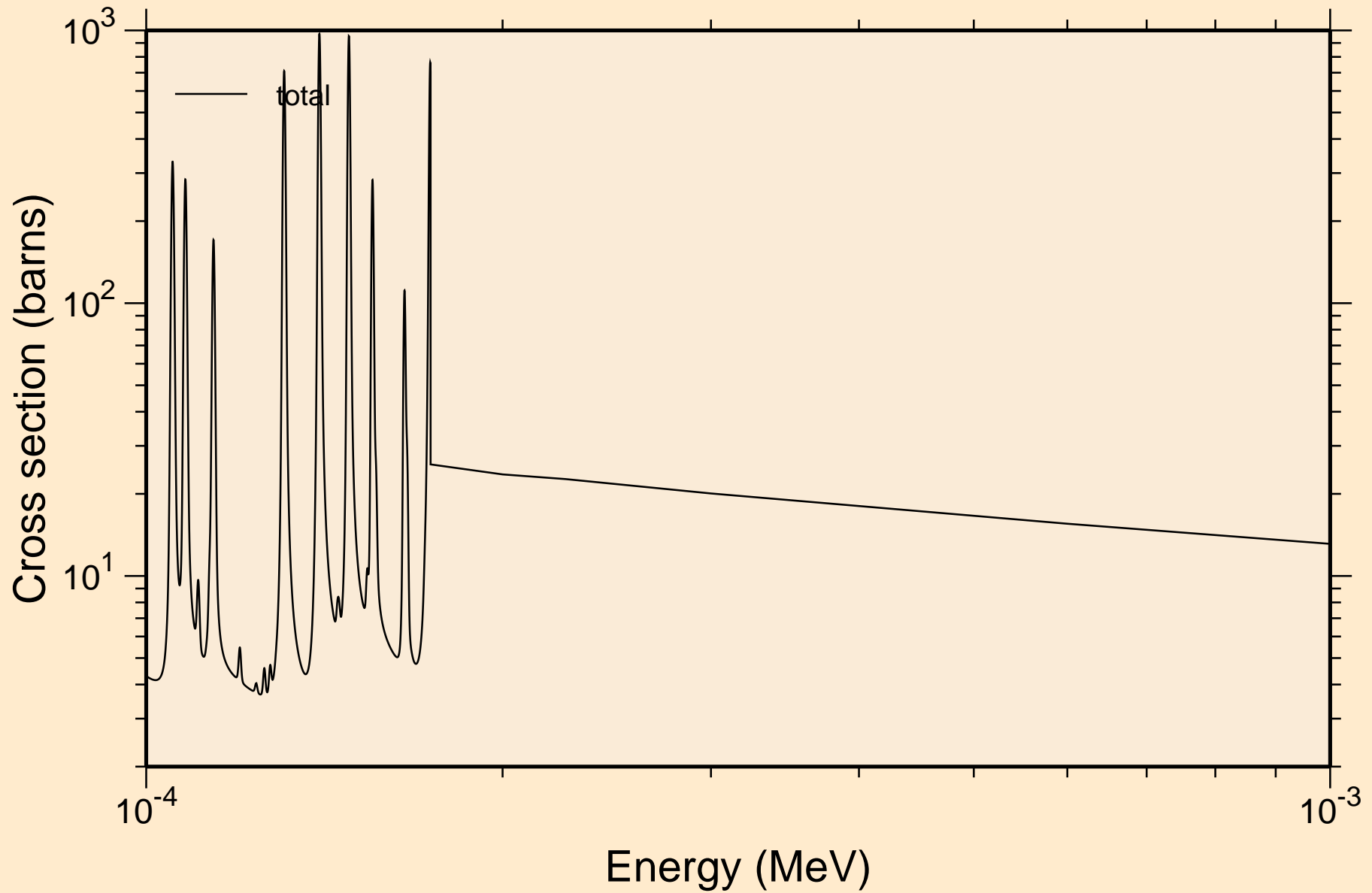
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



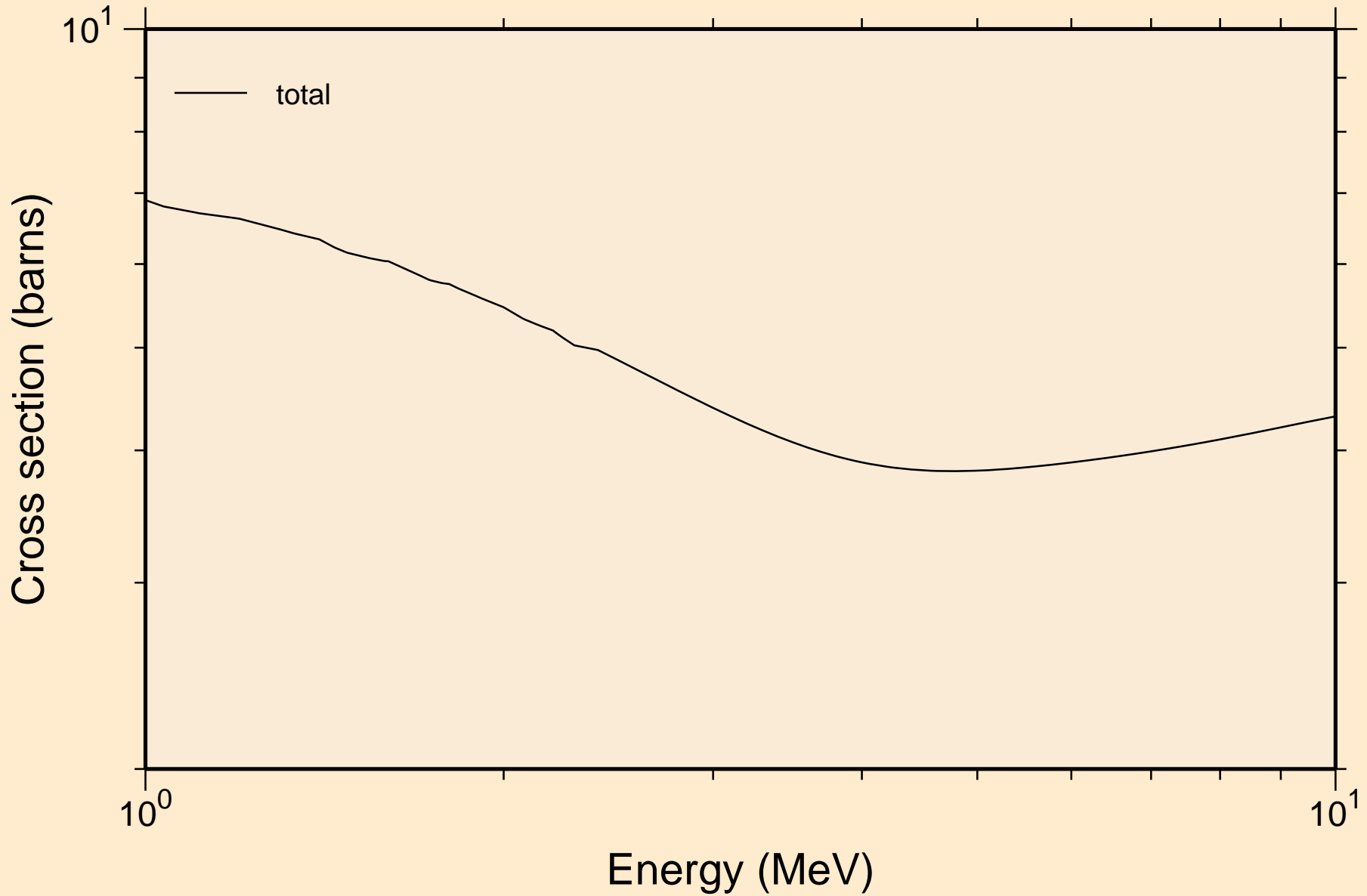
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



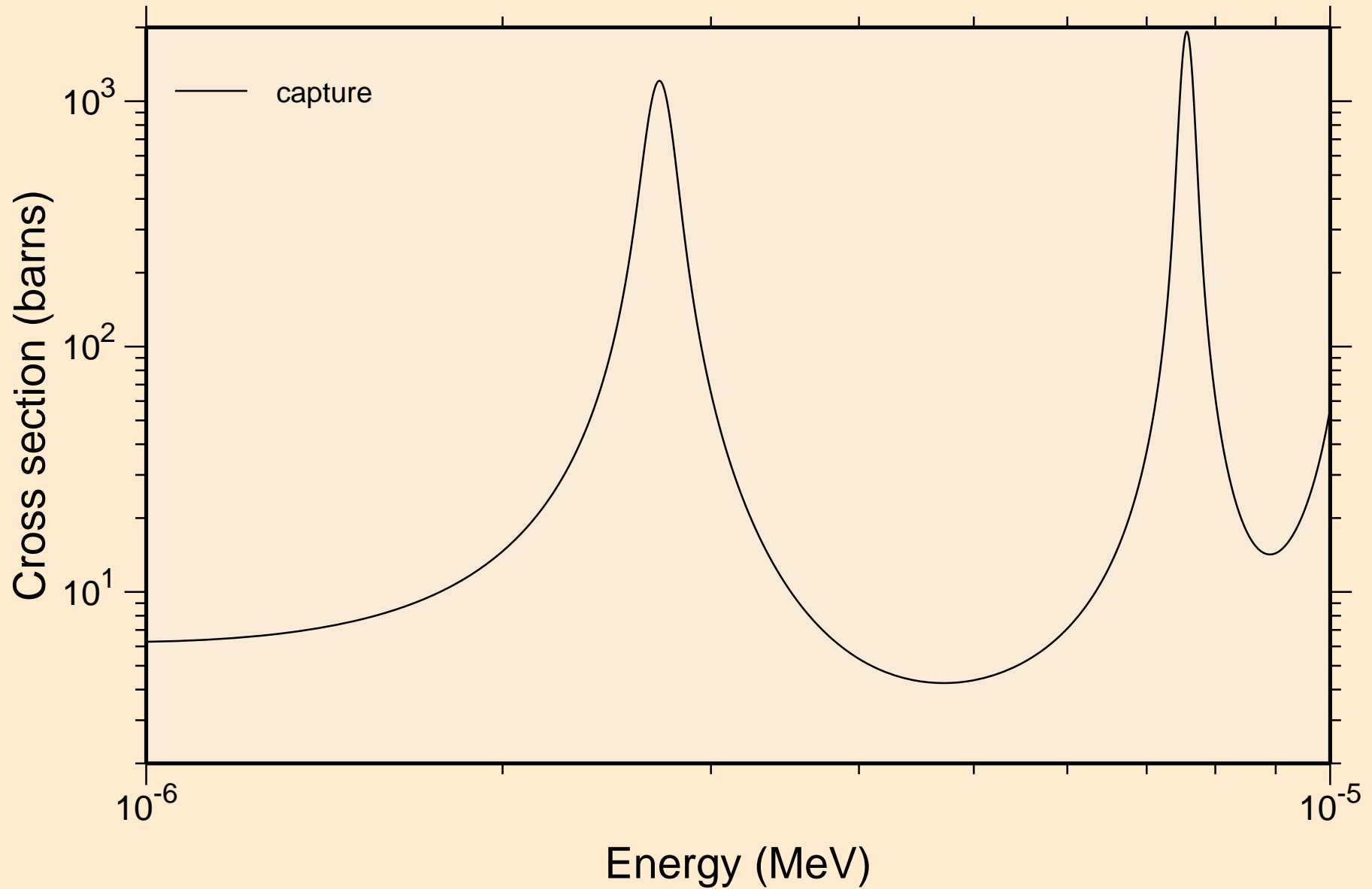
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



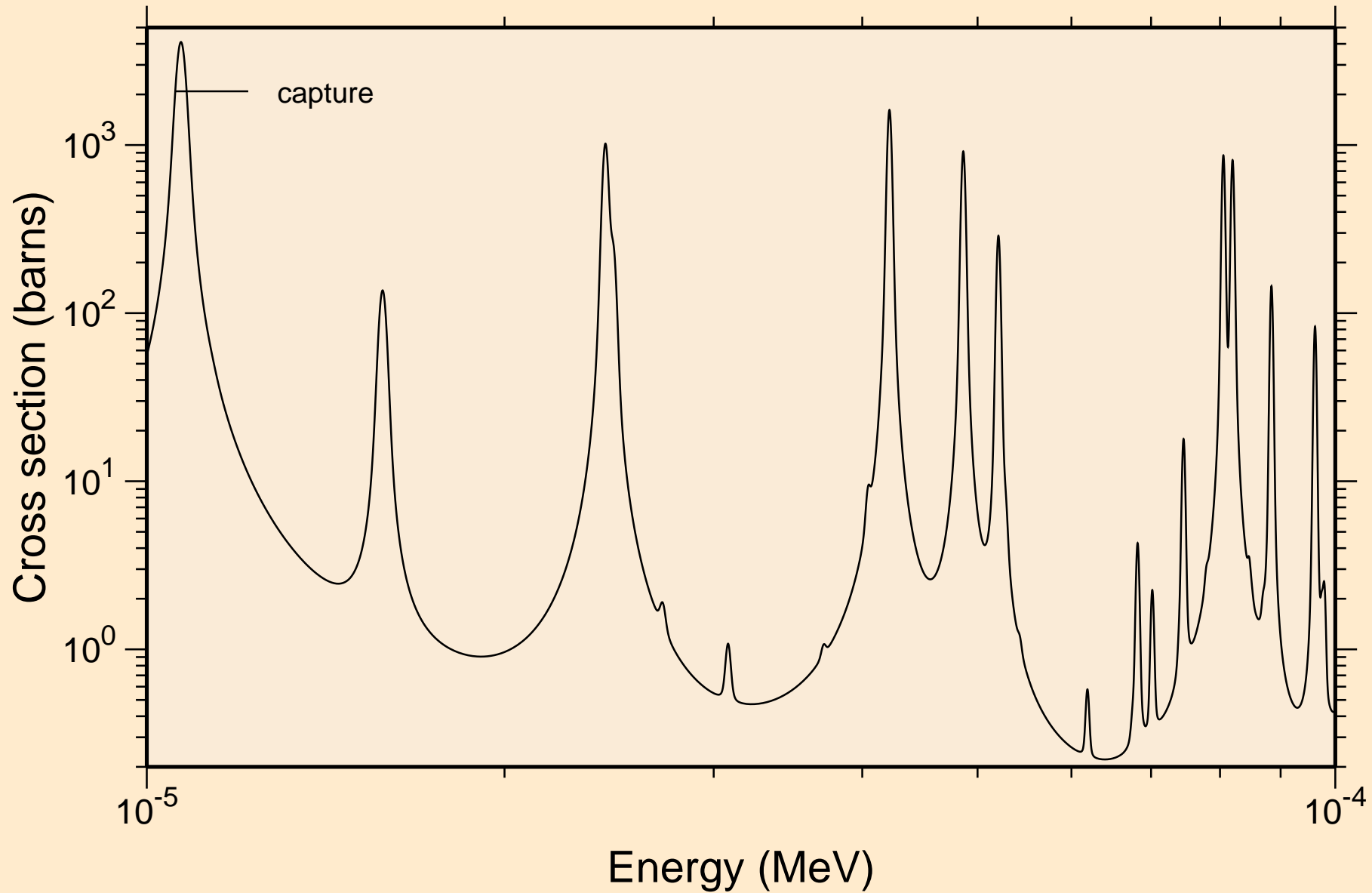
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



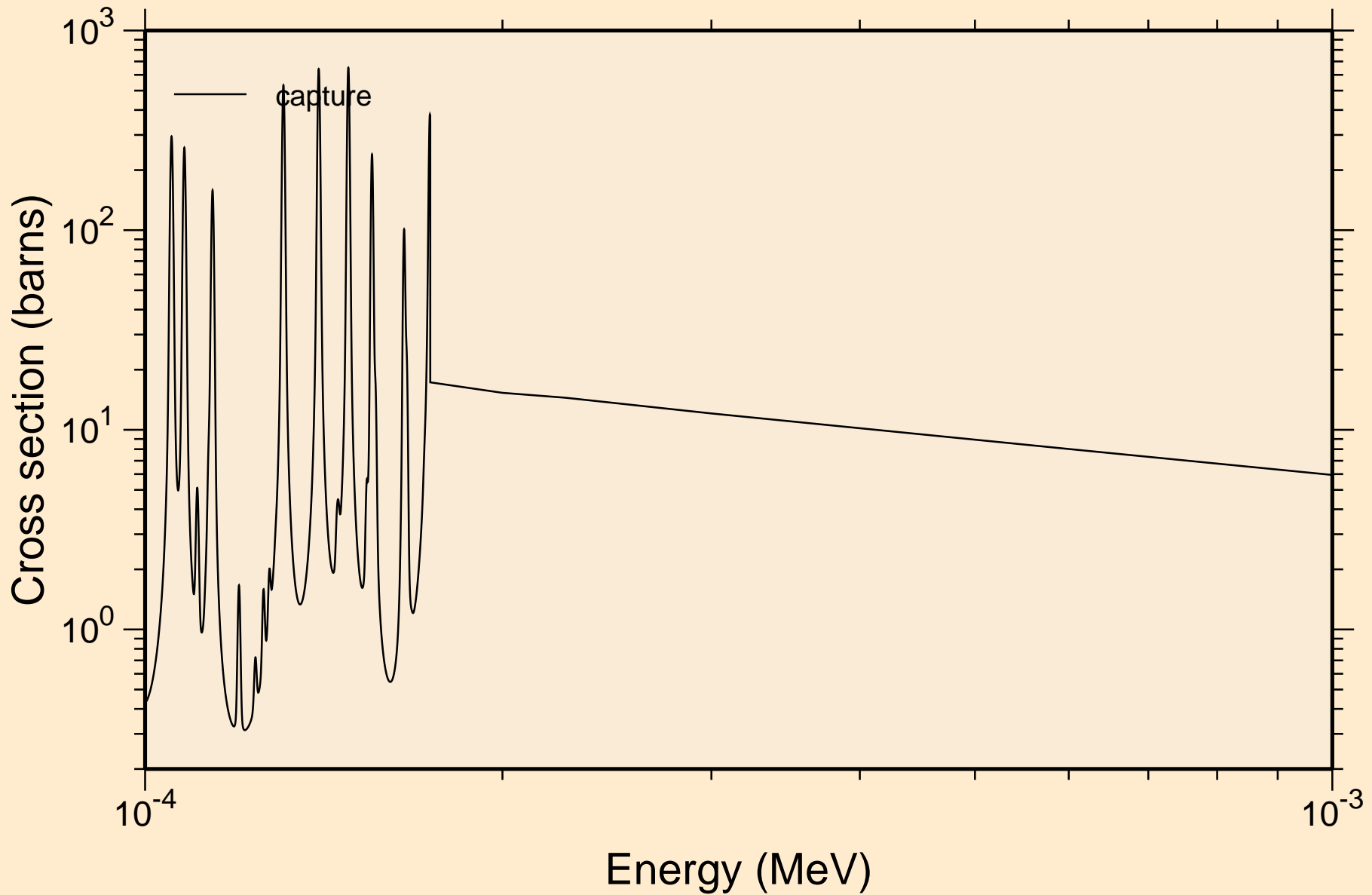
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

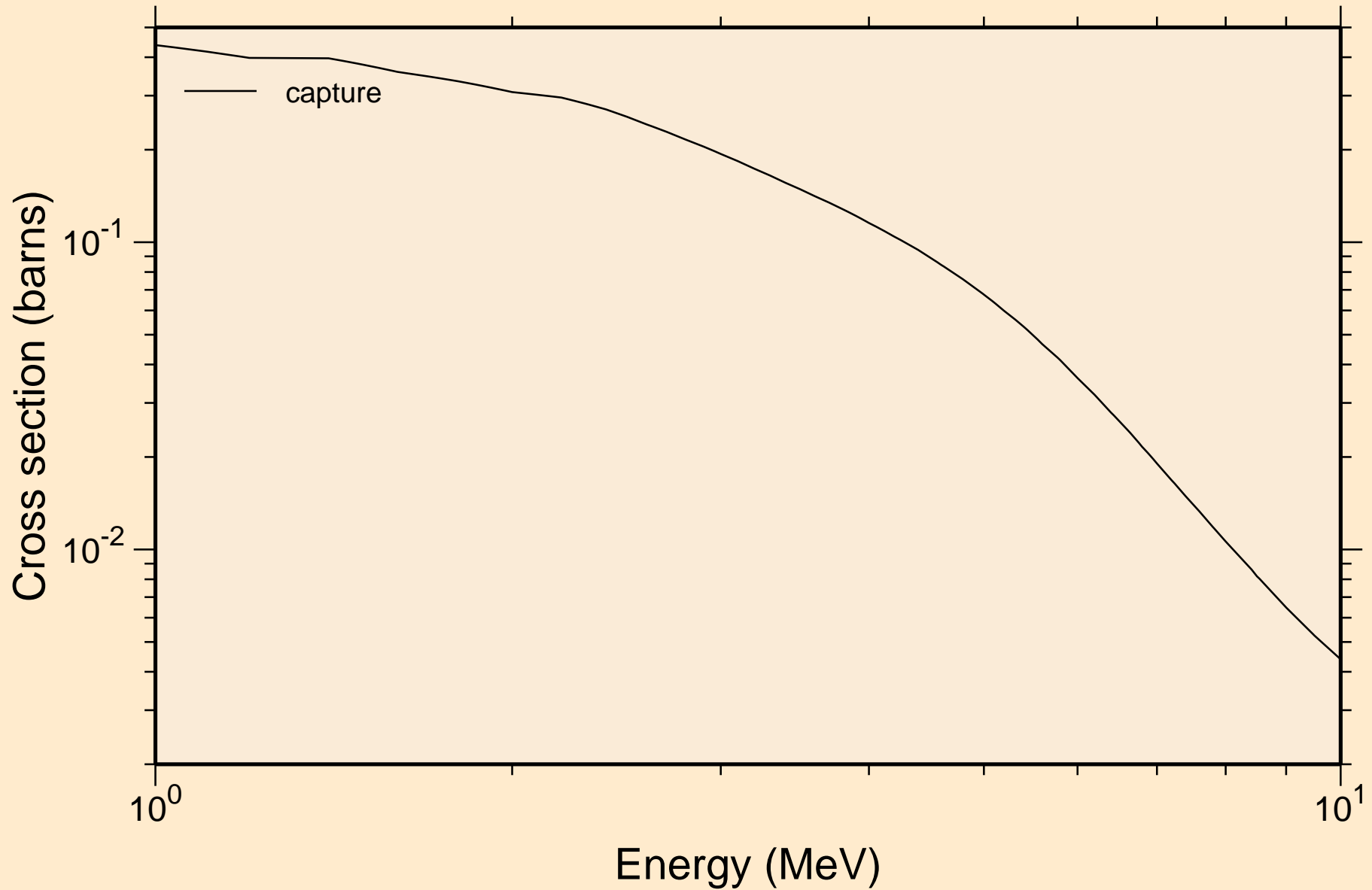


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

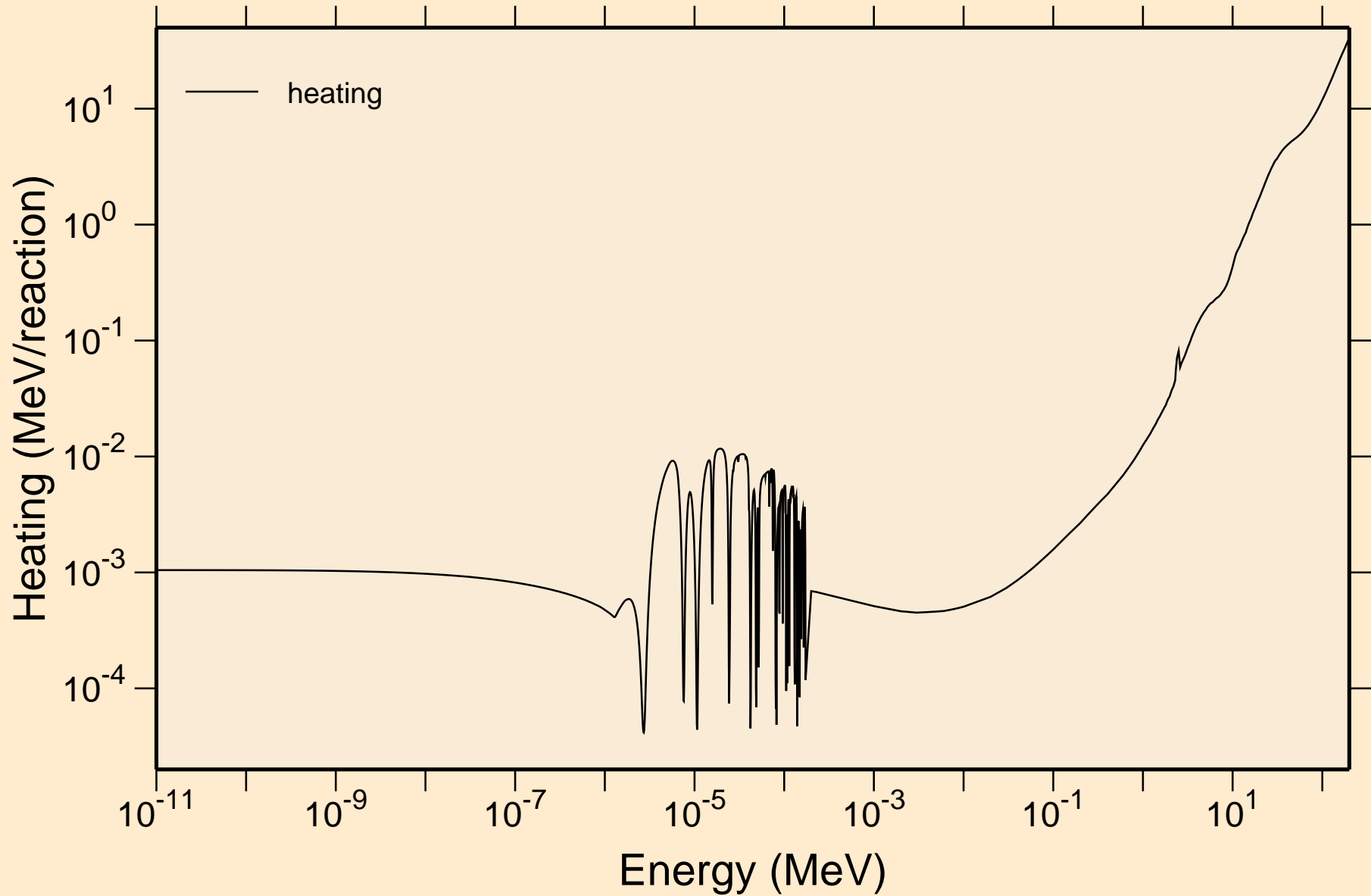




IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

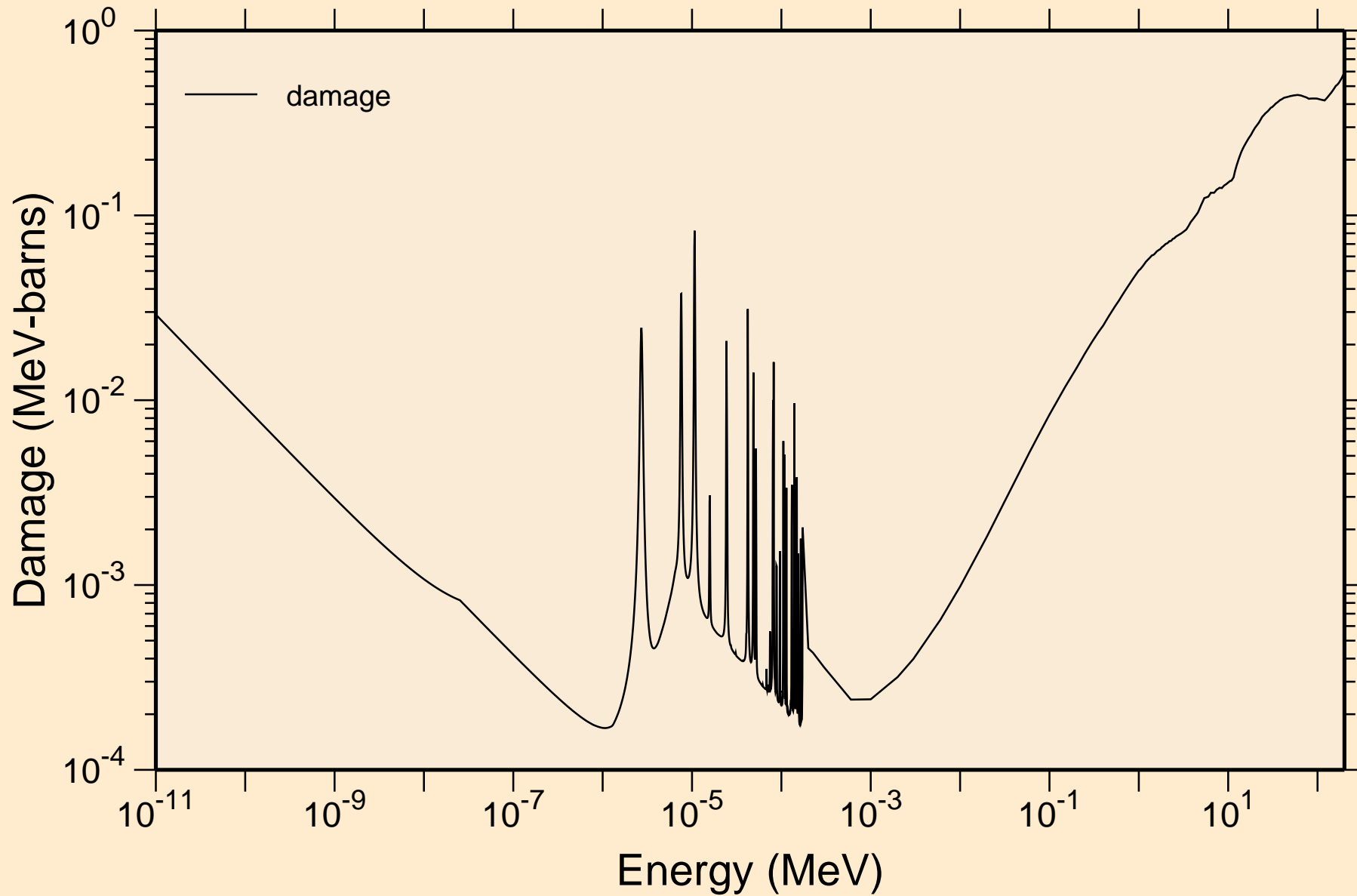


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

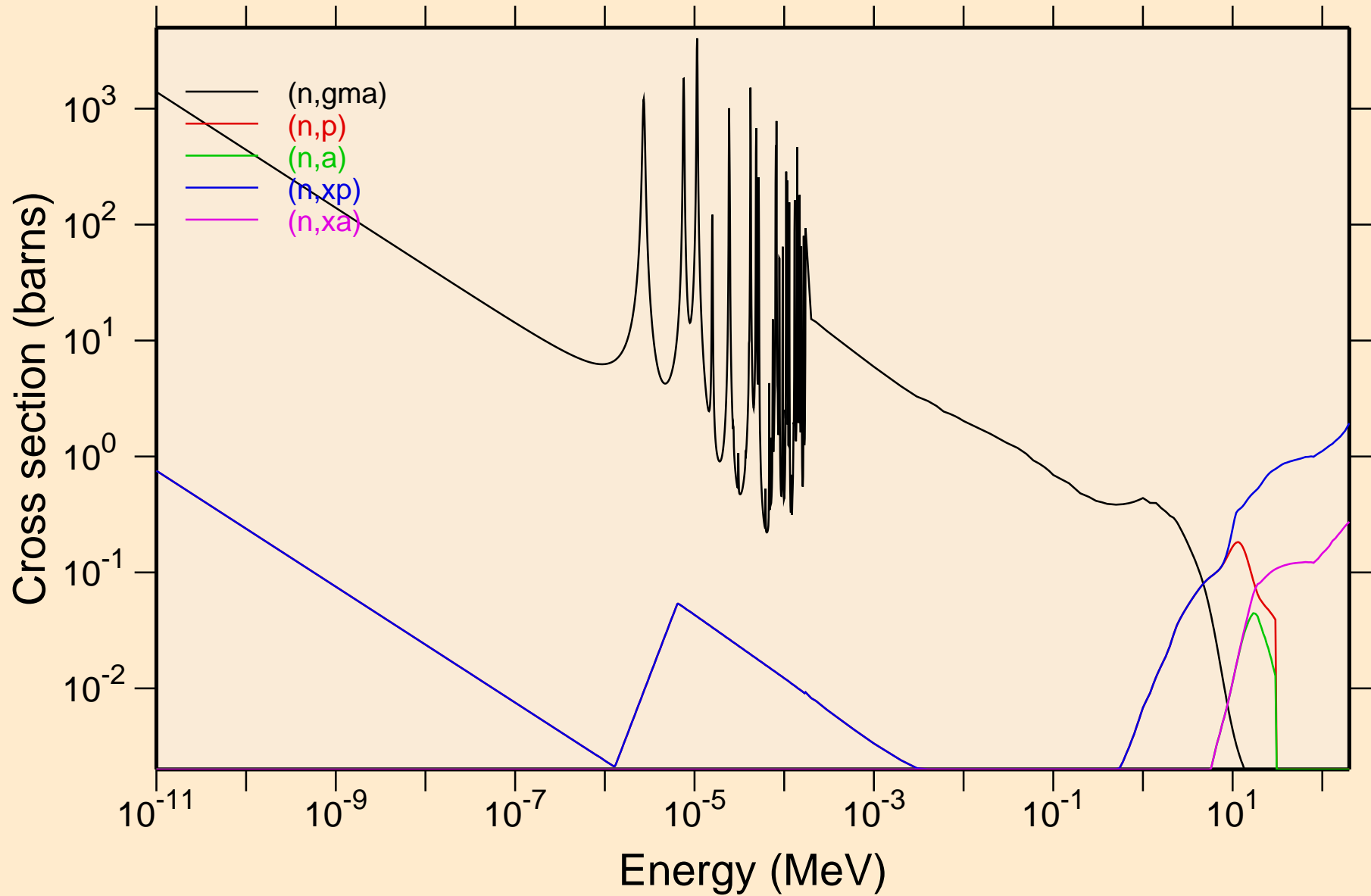


# IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Damage

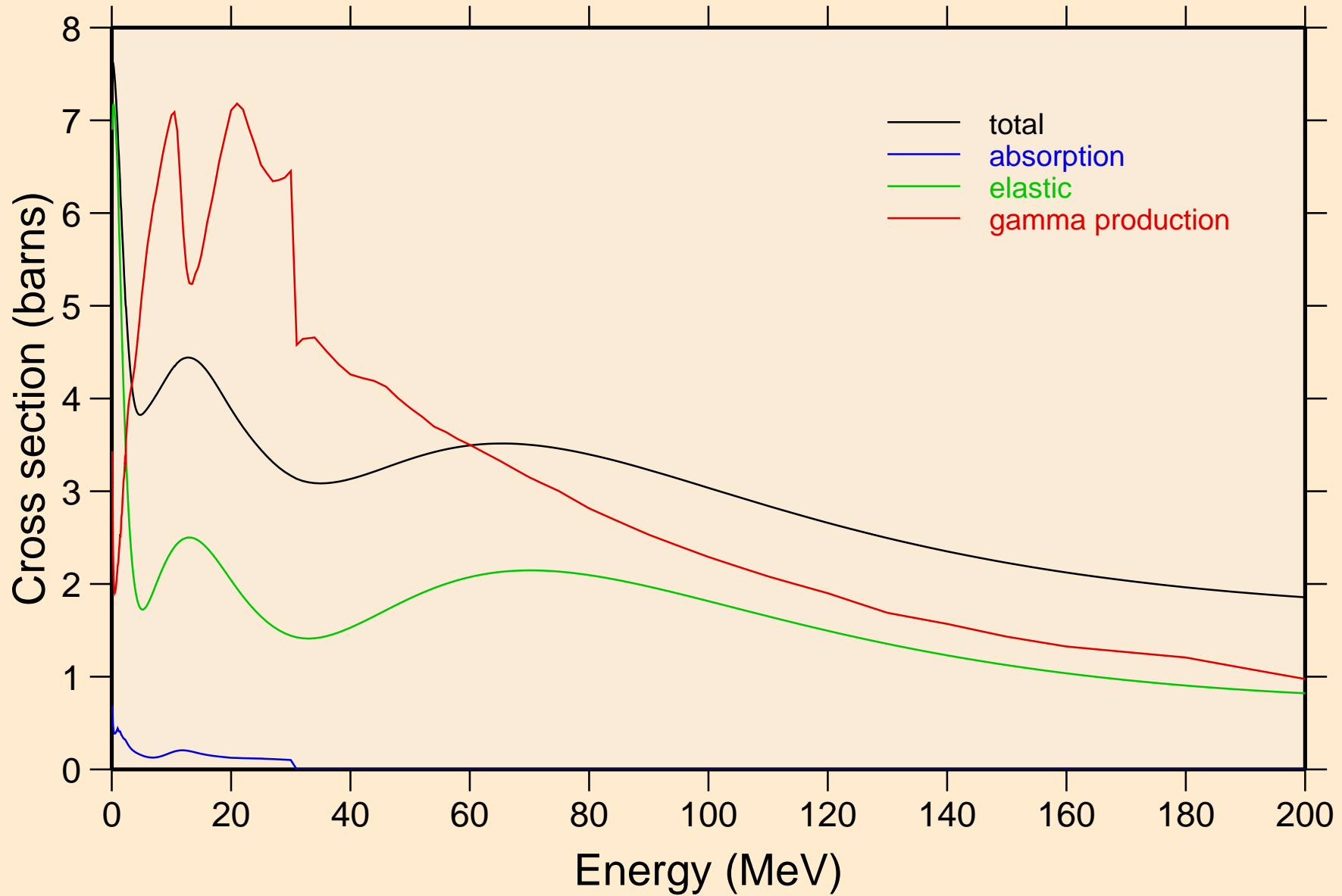


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



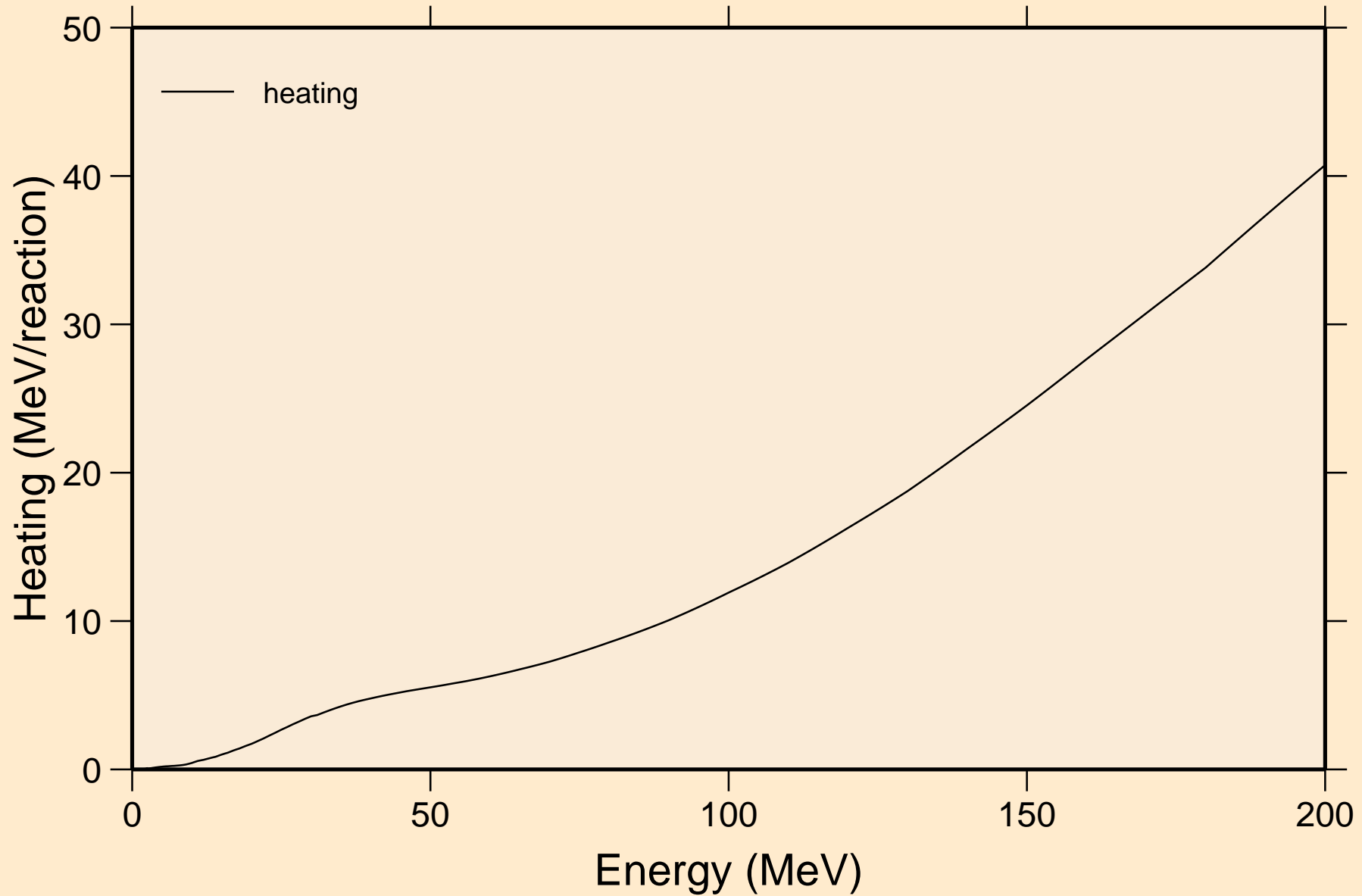
# IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

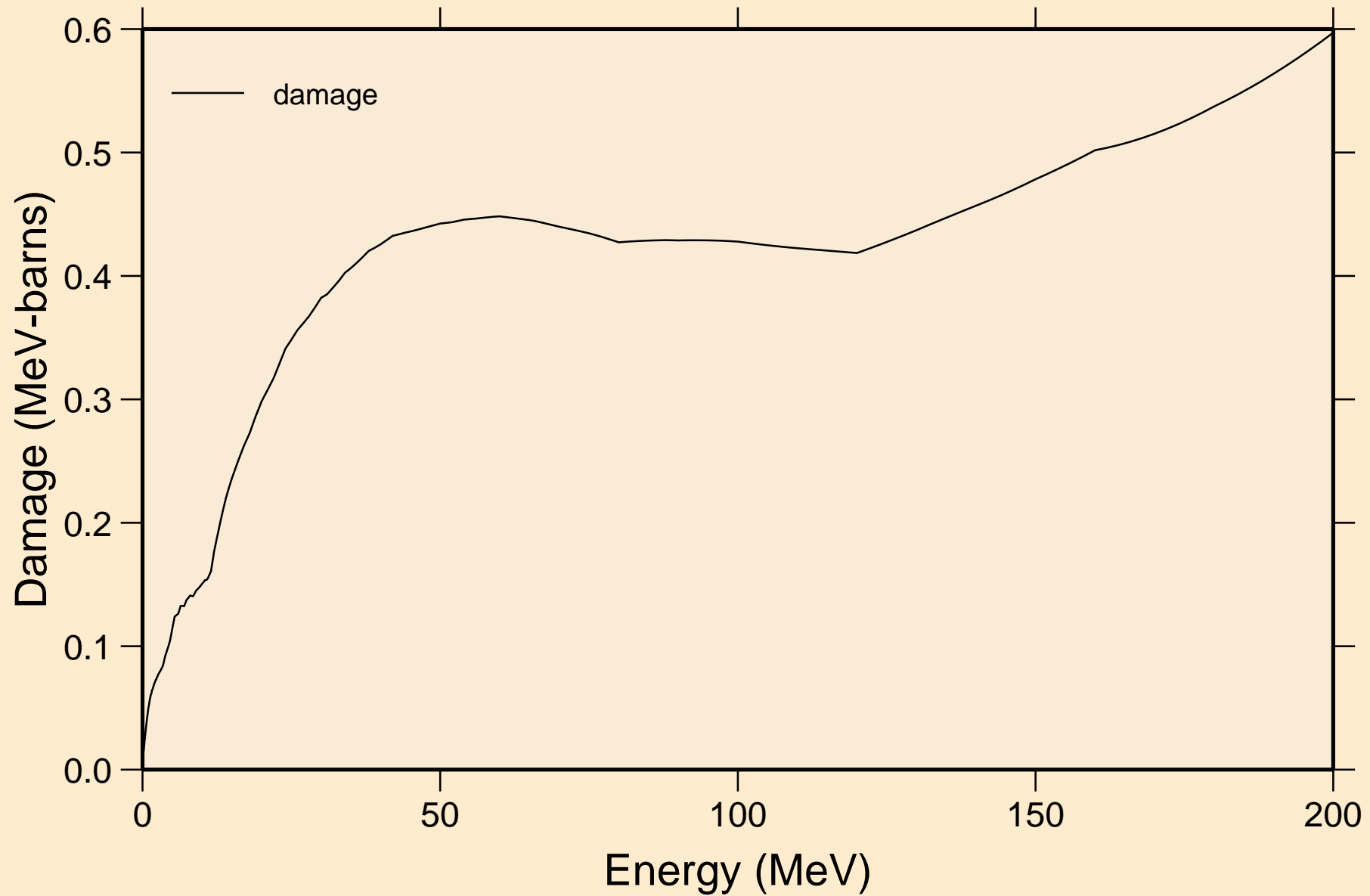


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

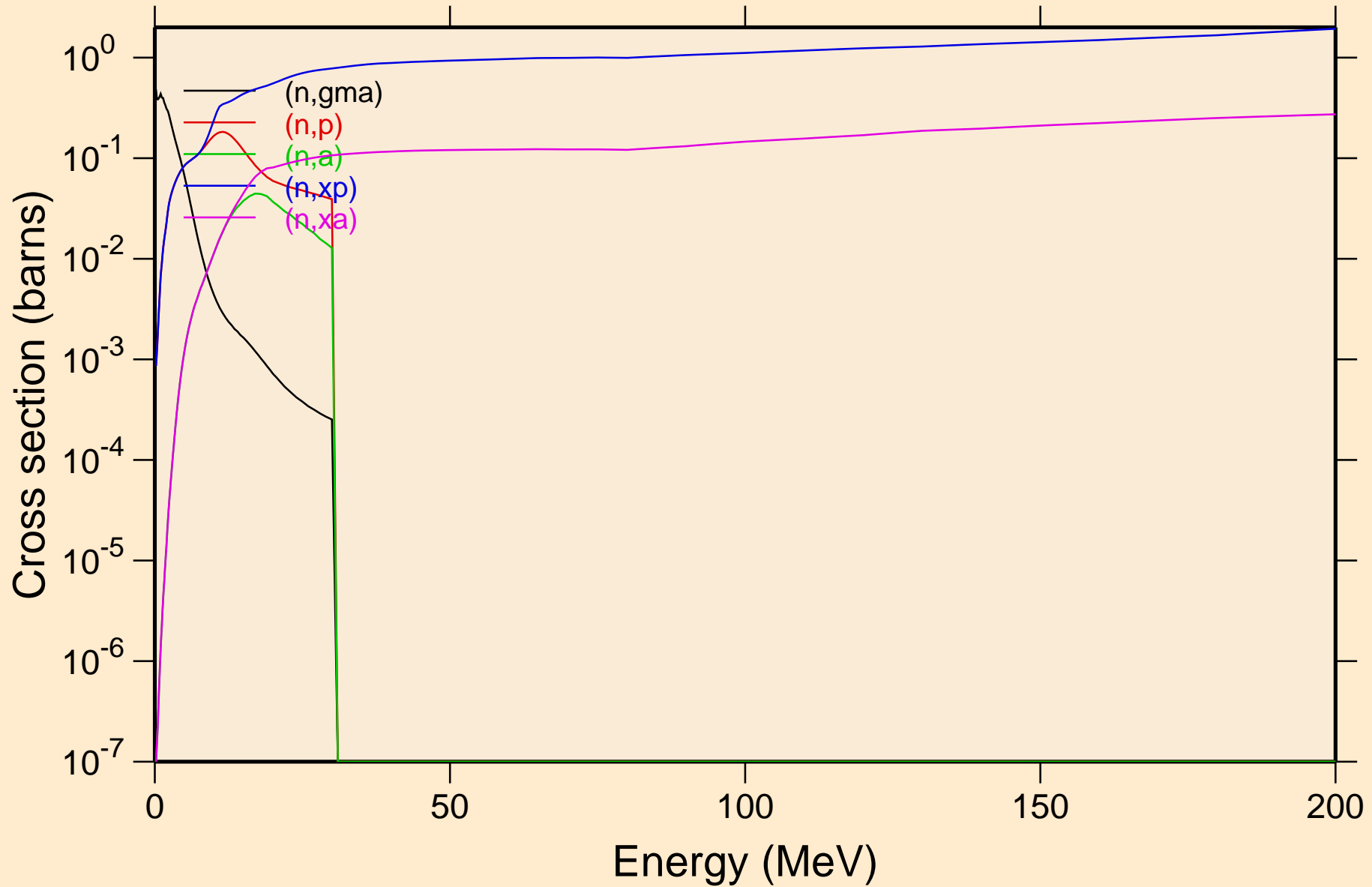
Heating



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

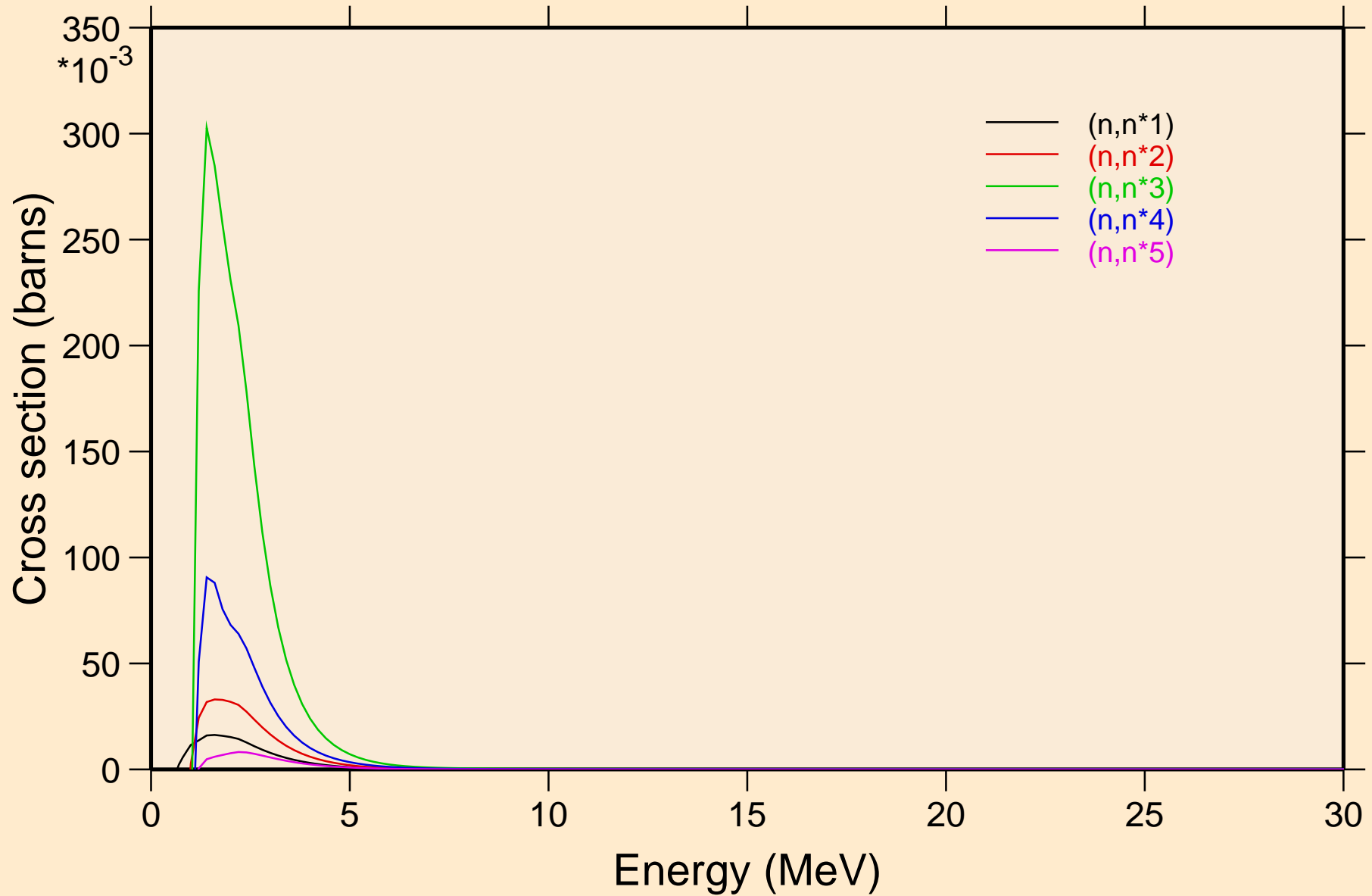


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

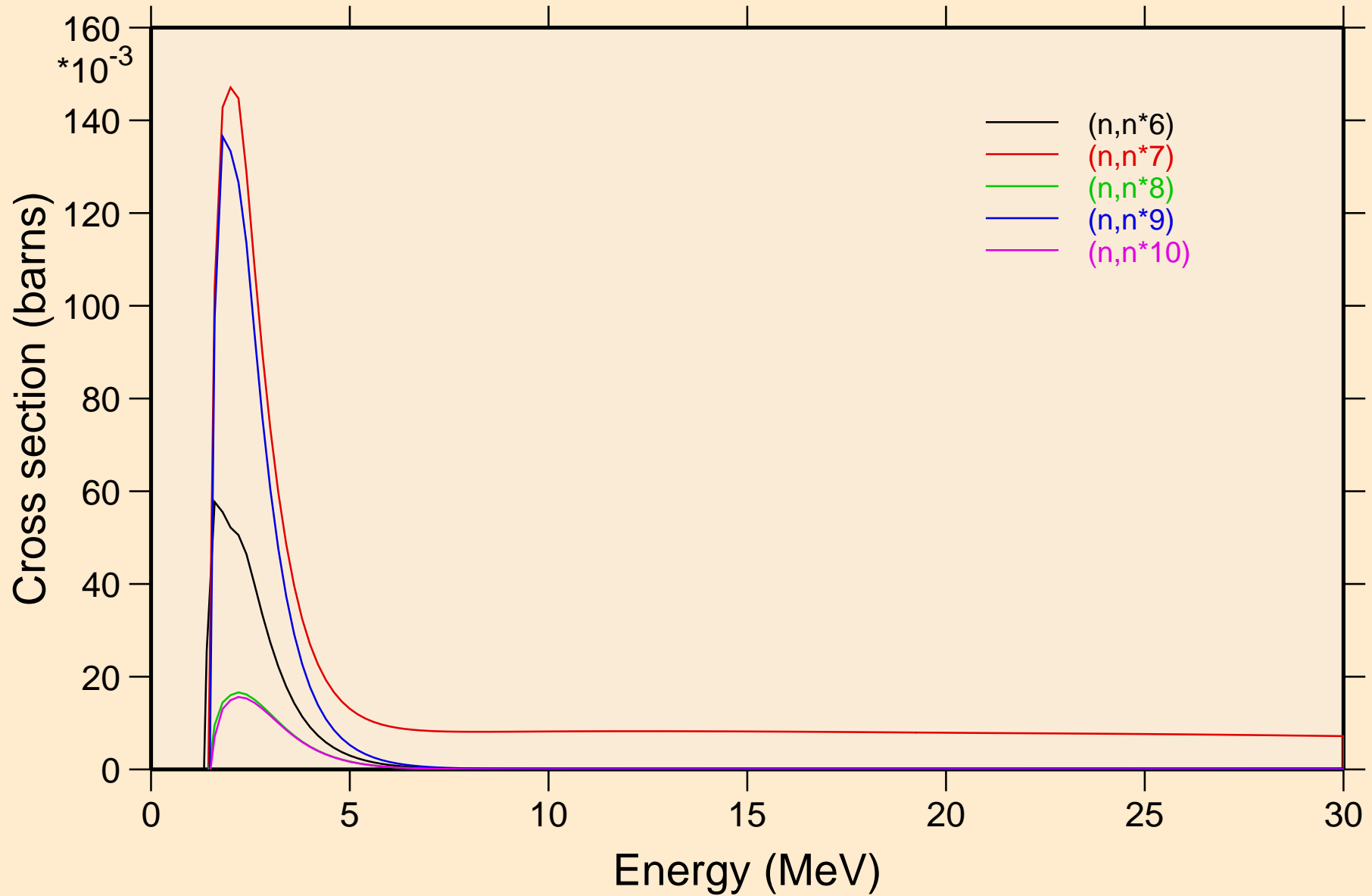




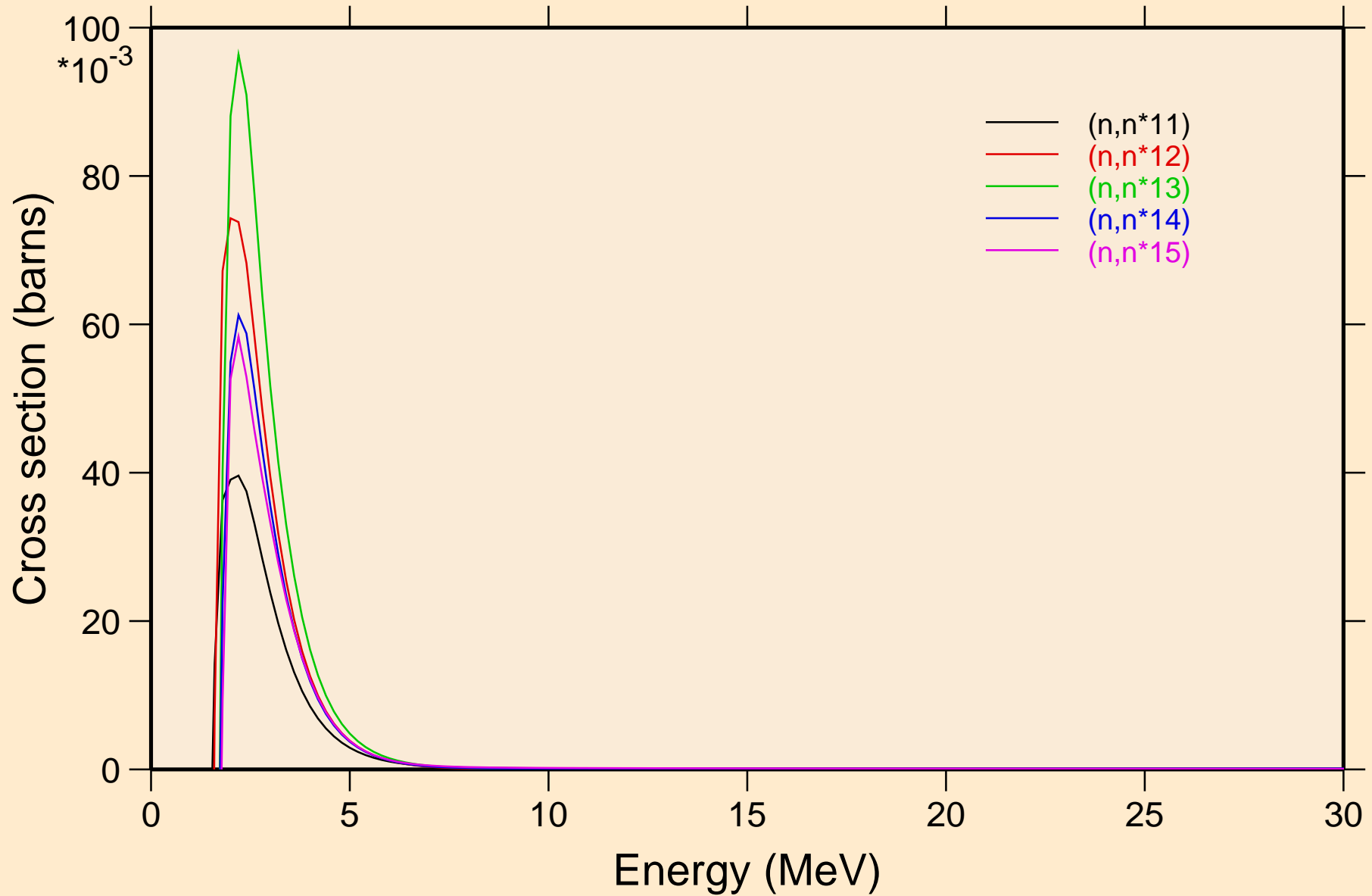
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



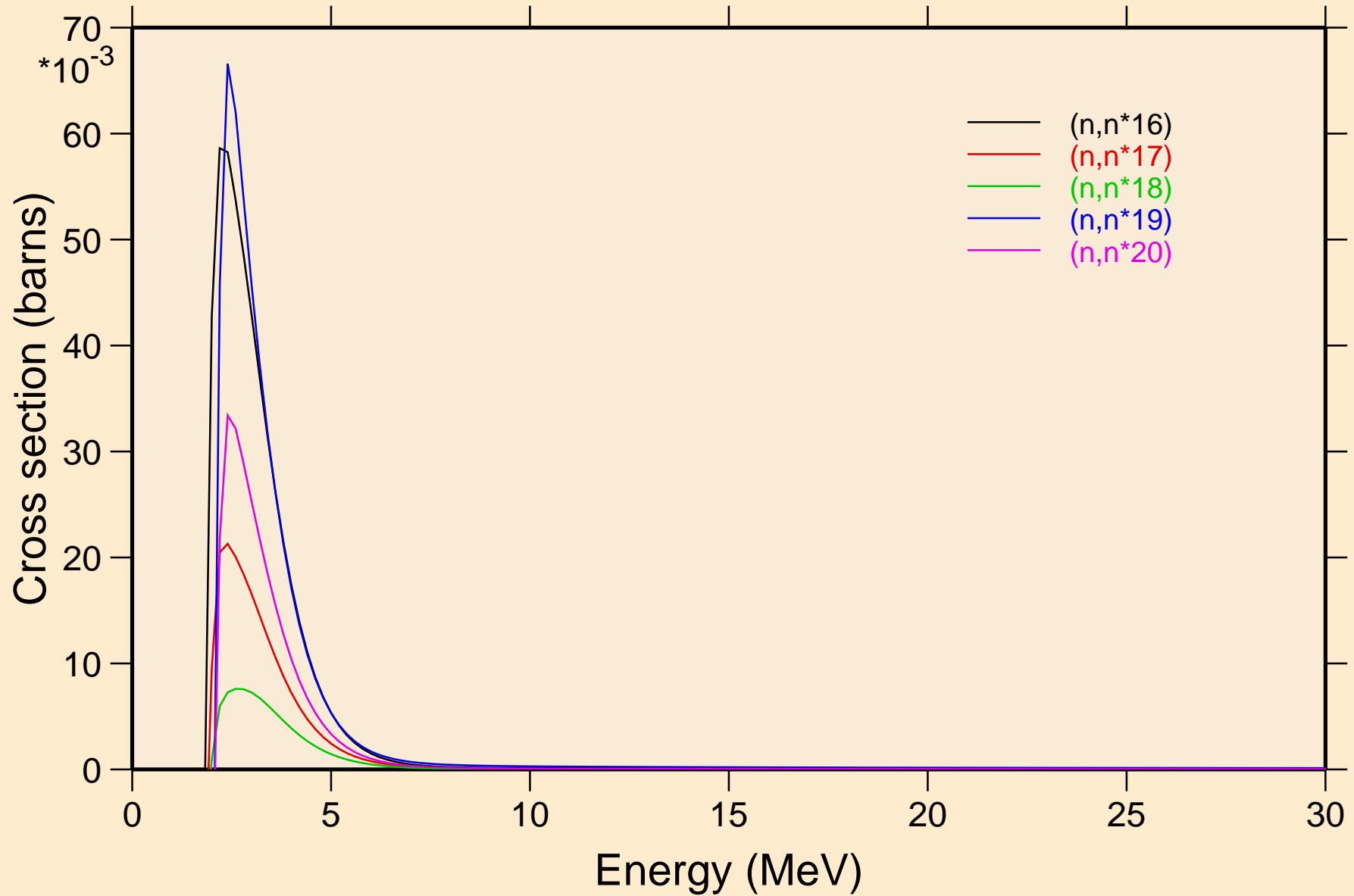
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



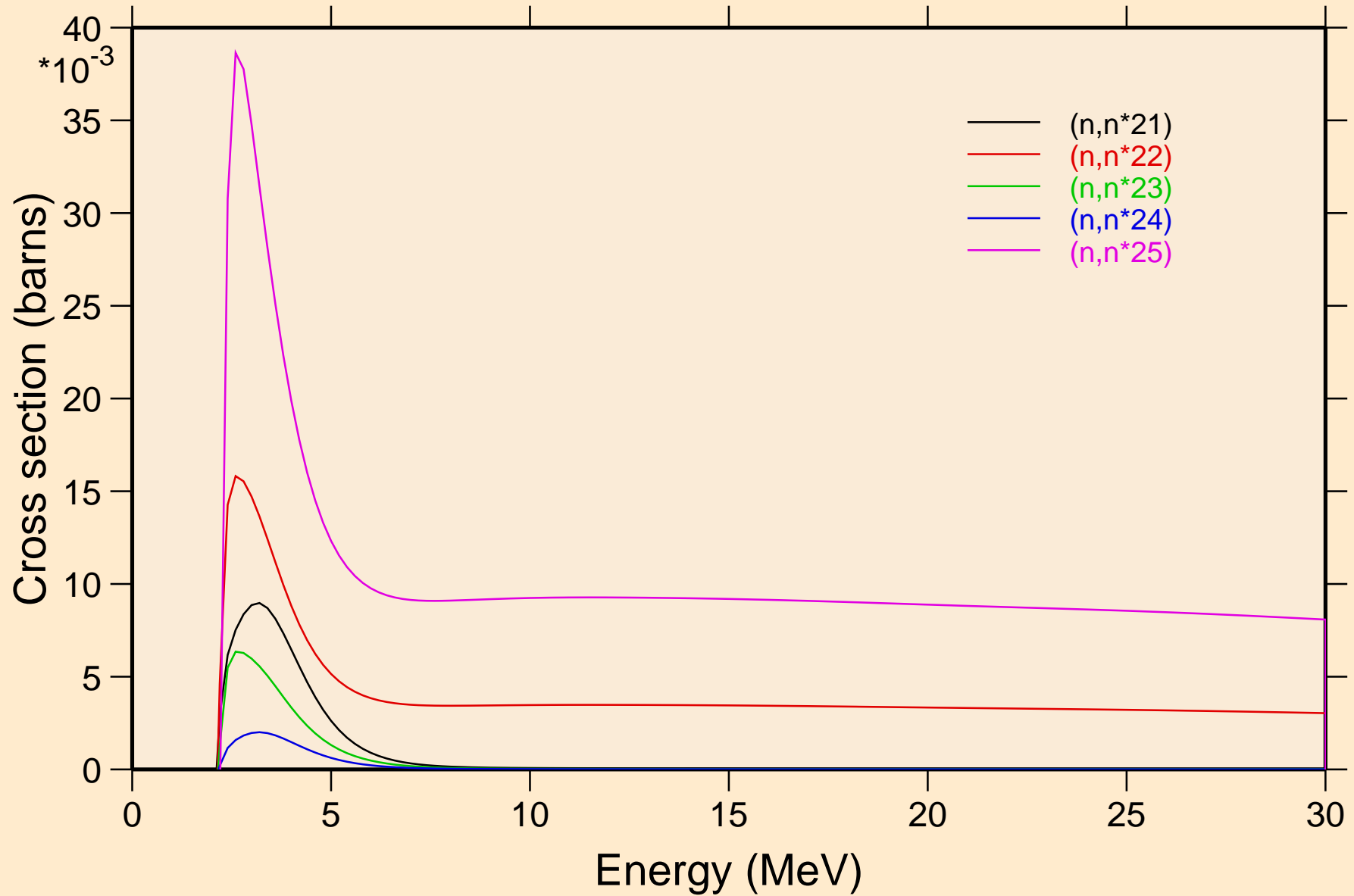
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



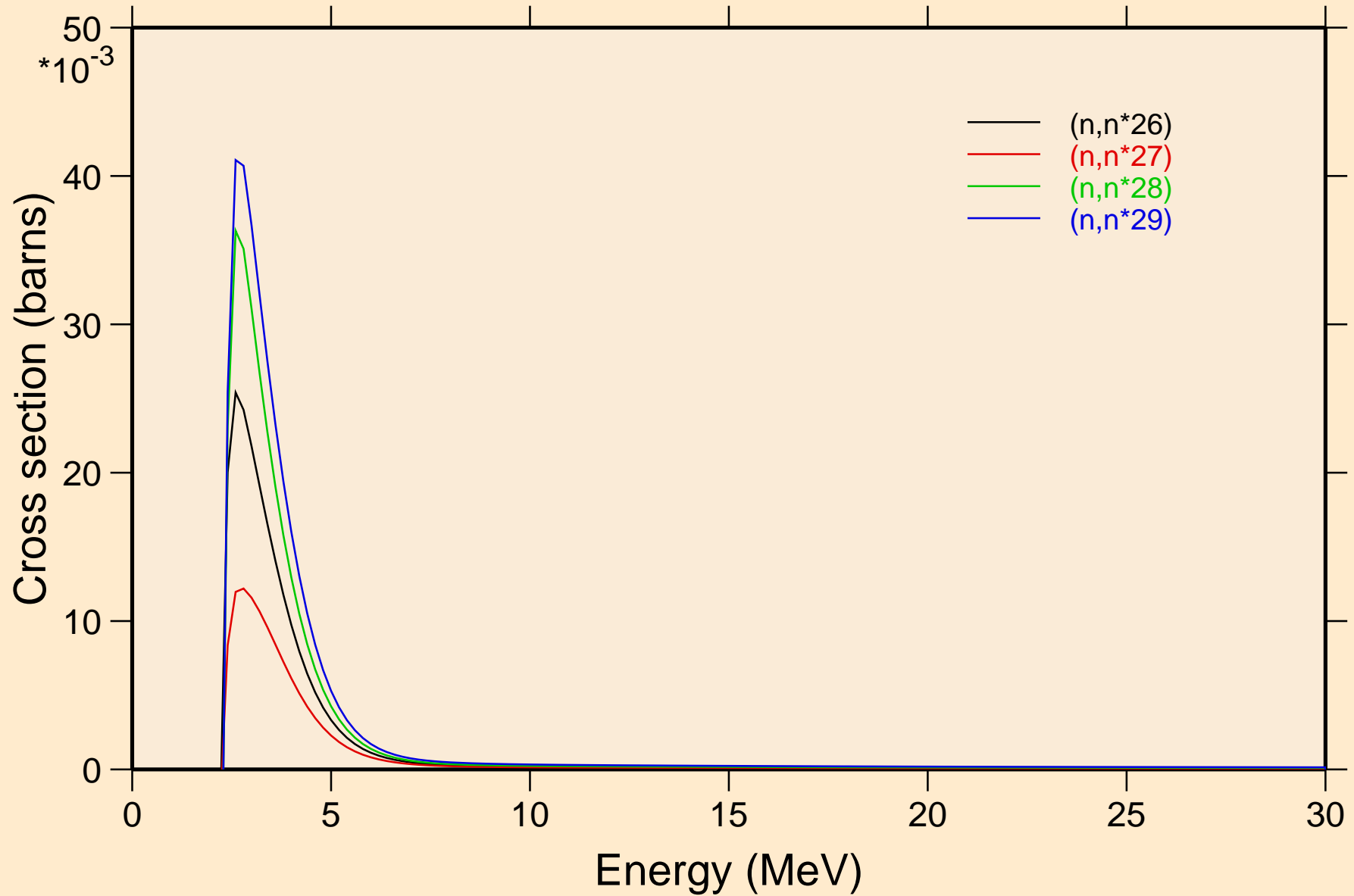
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



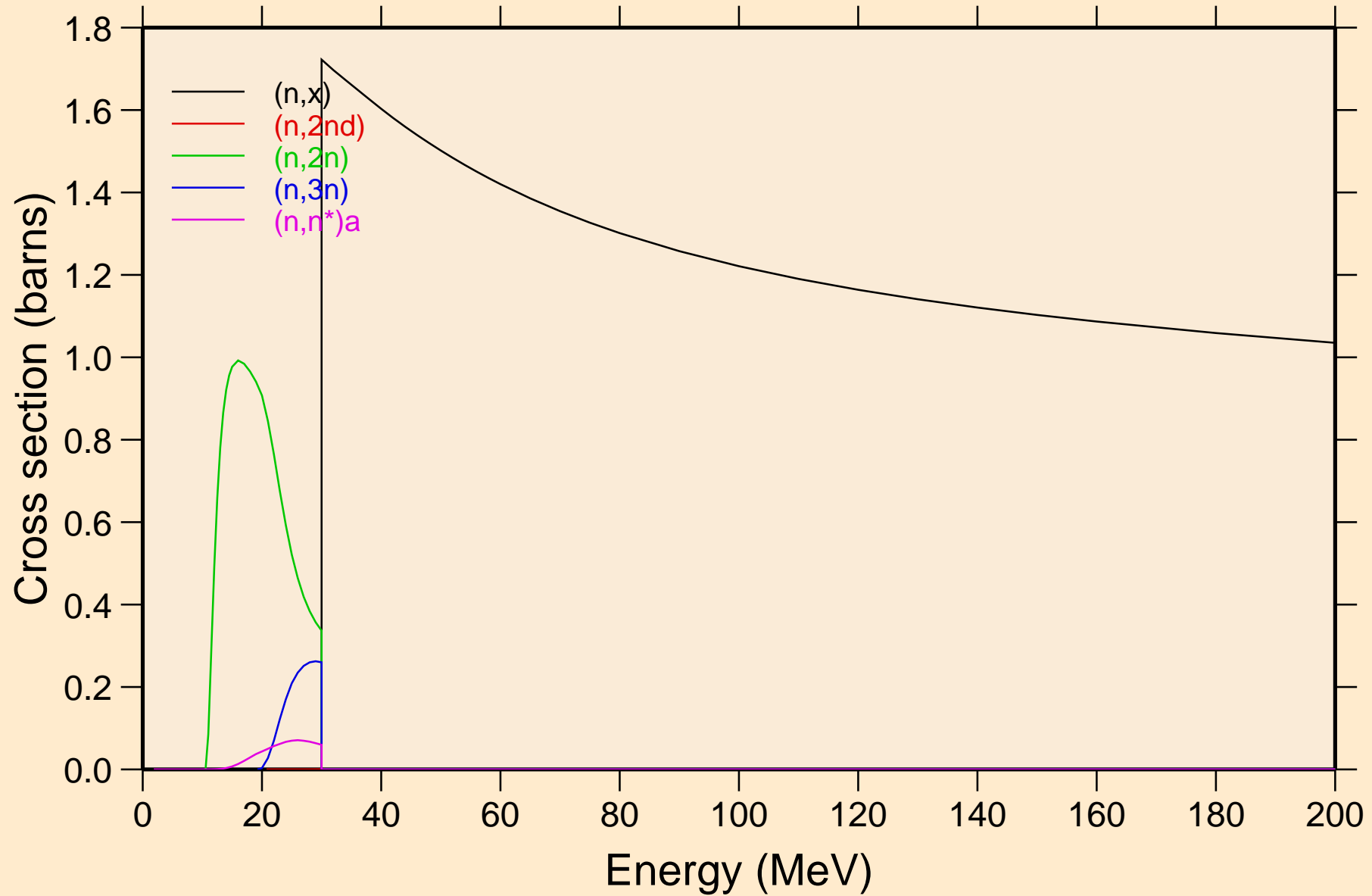
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



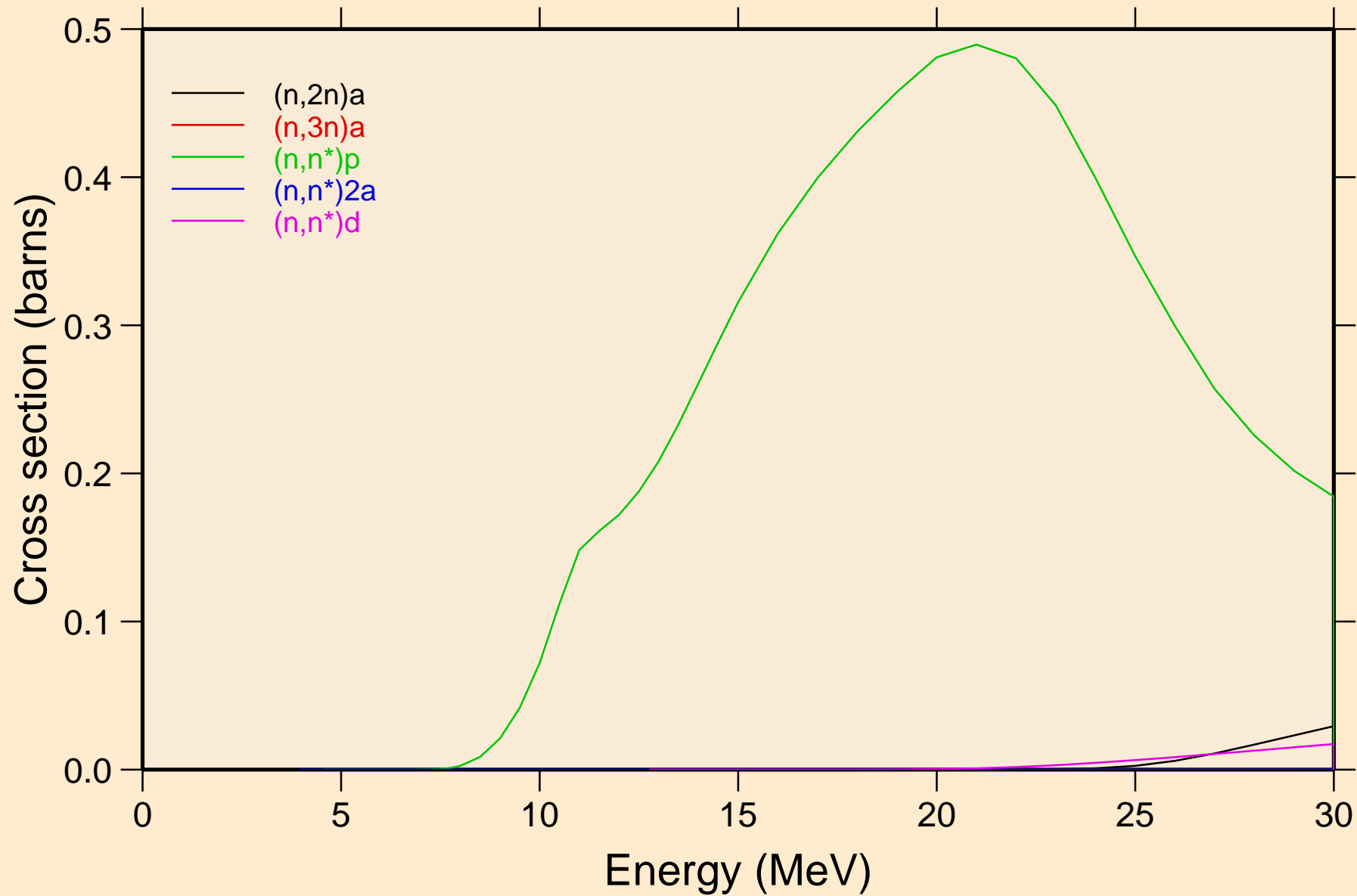
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

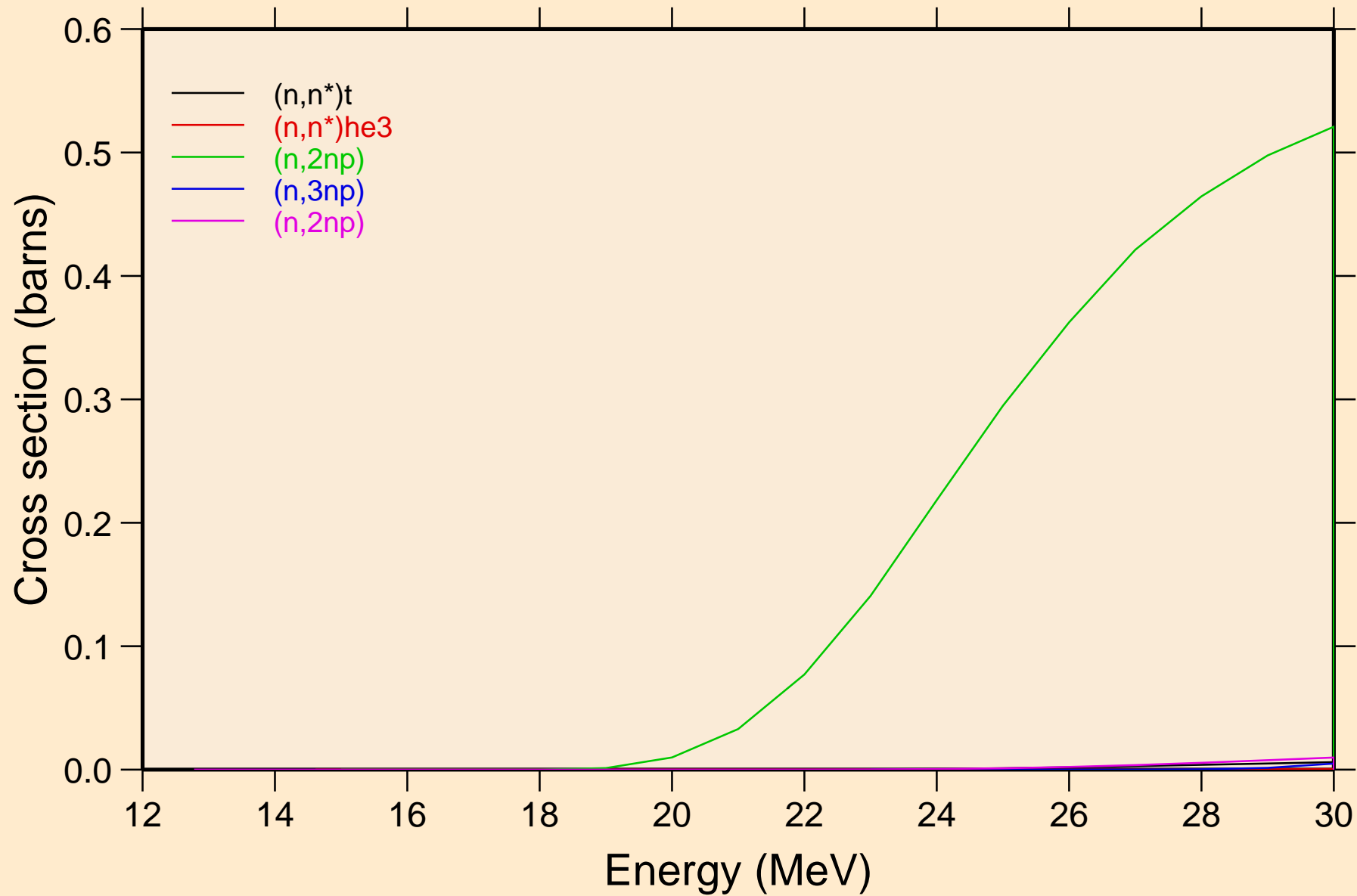


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

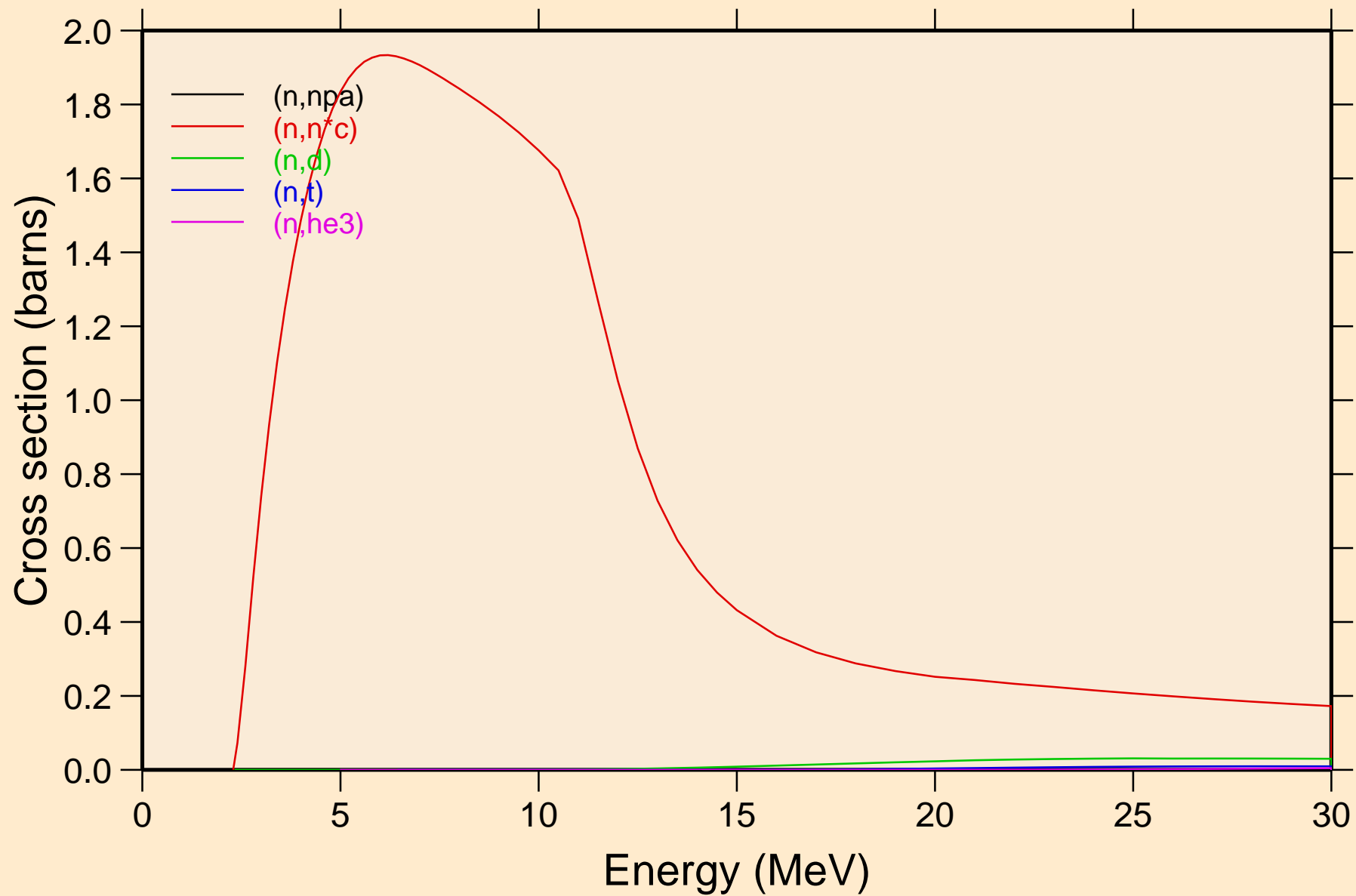




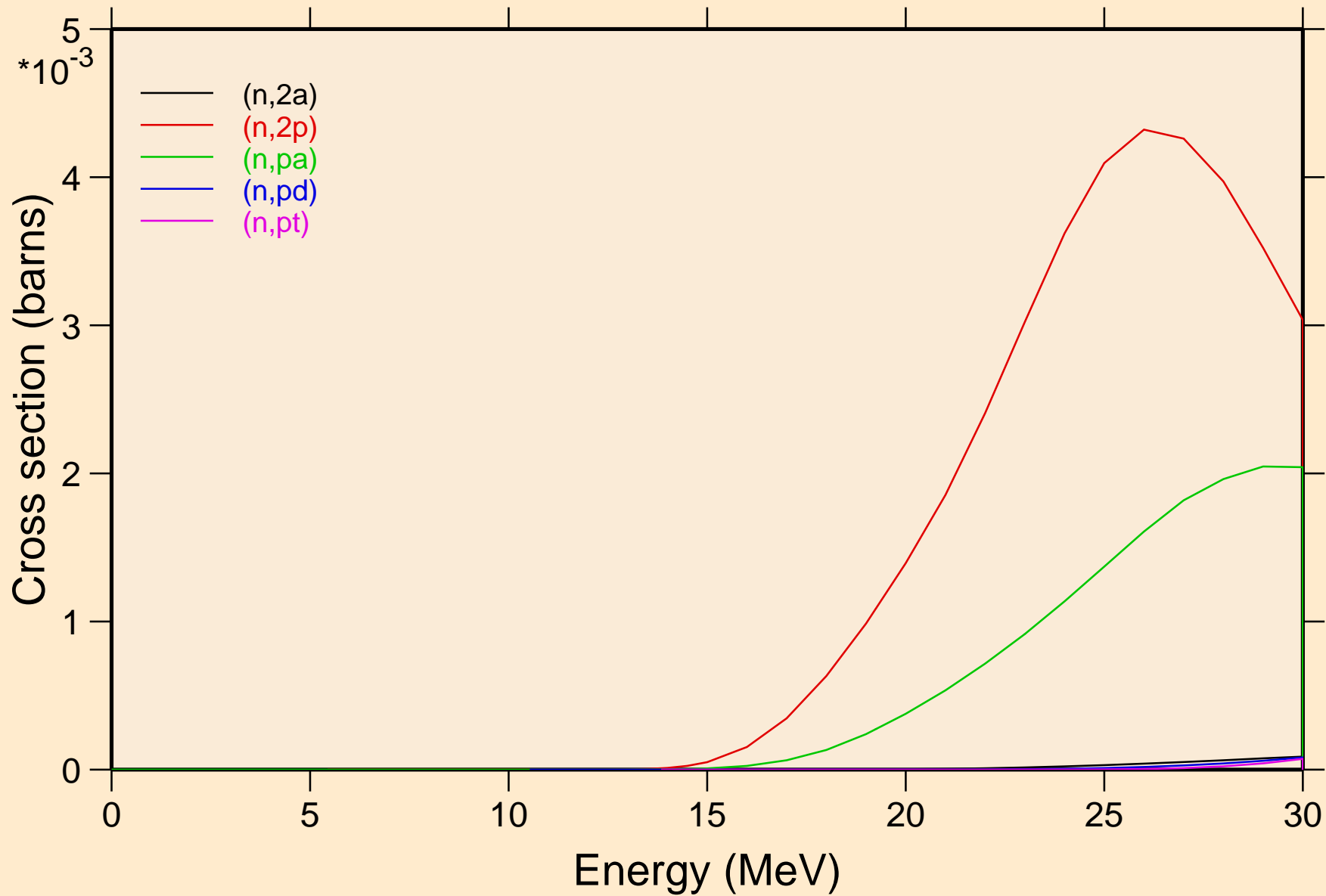
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



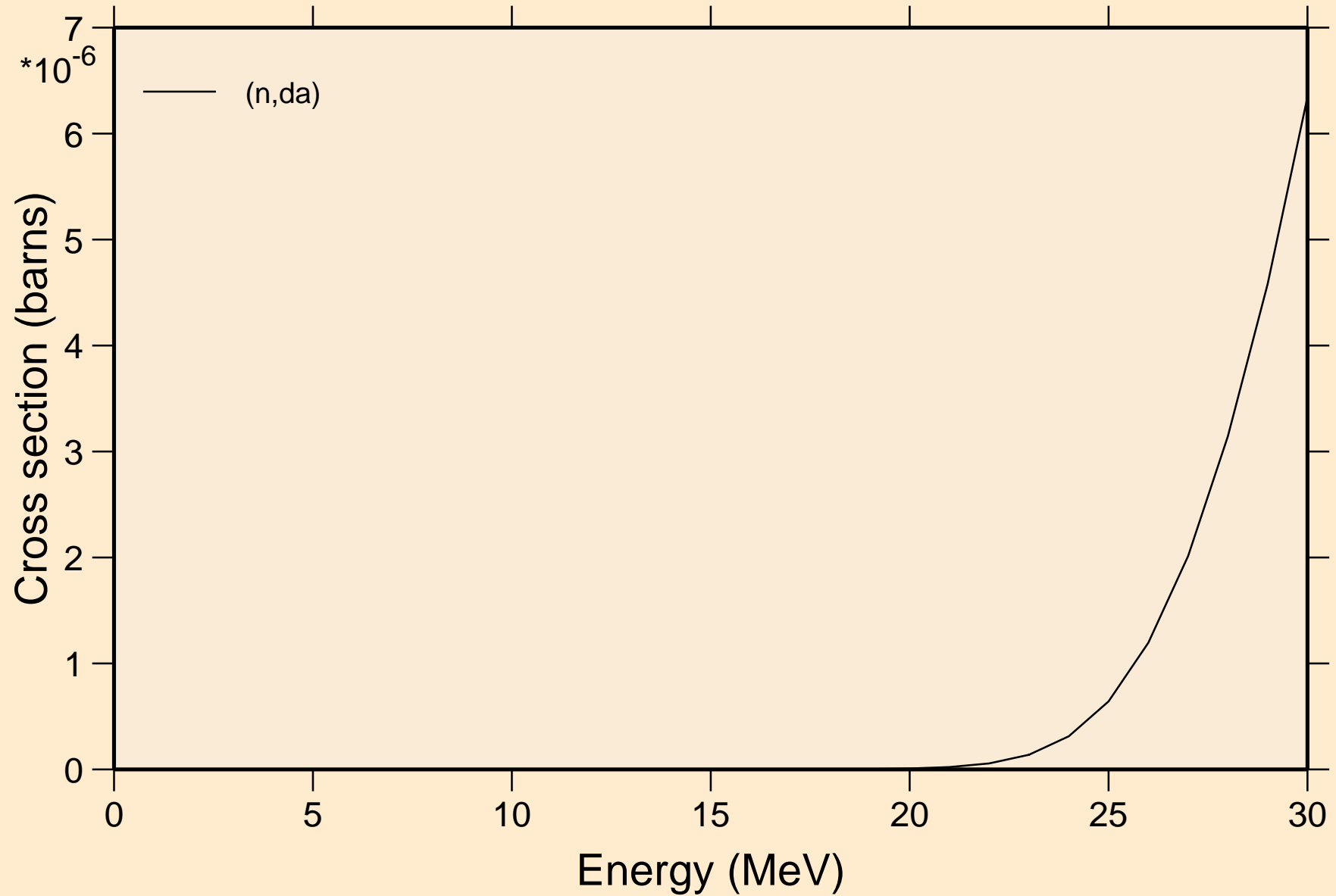
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



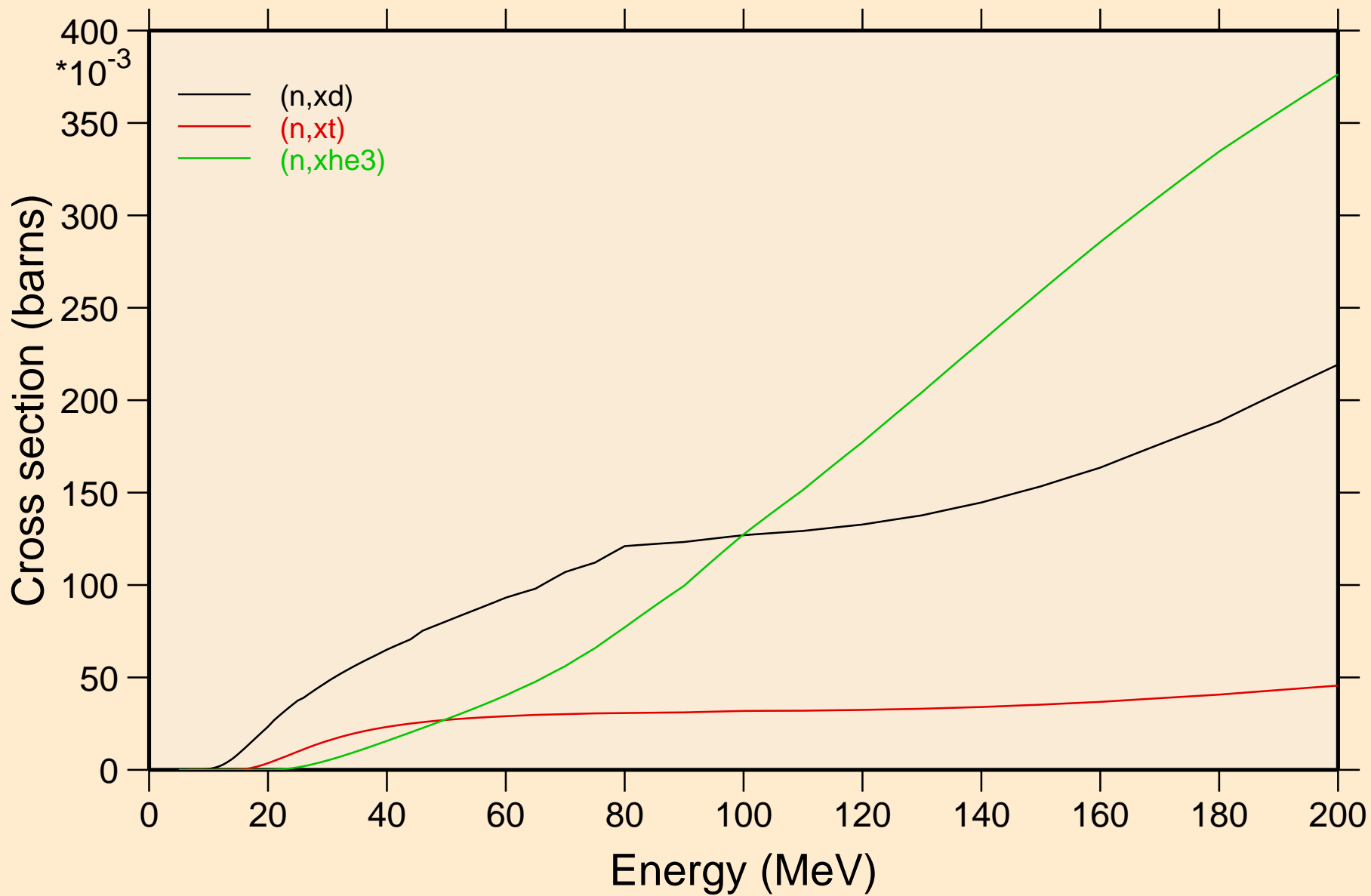
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



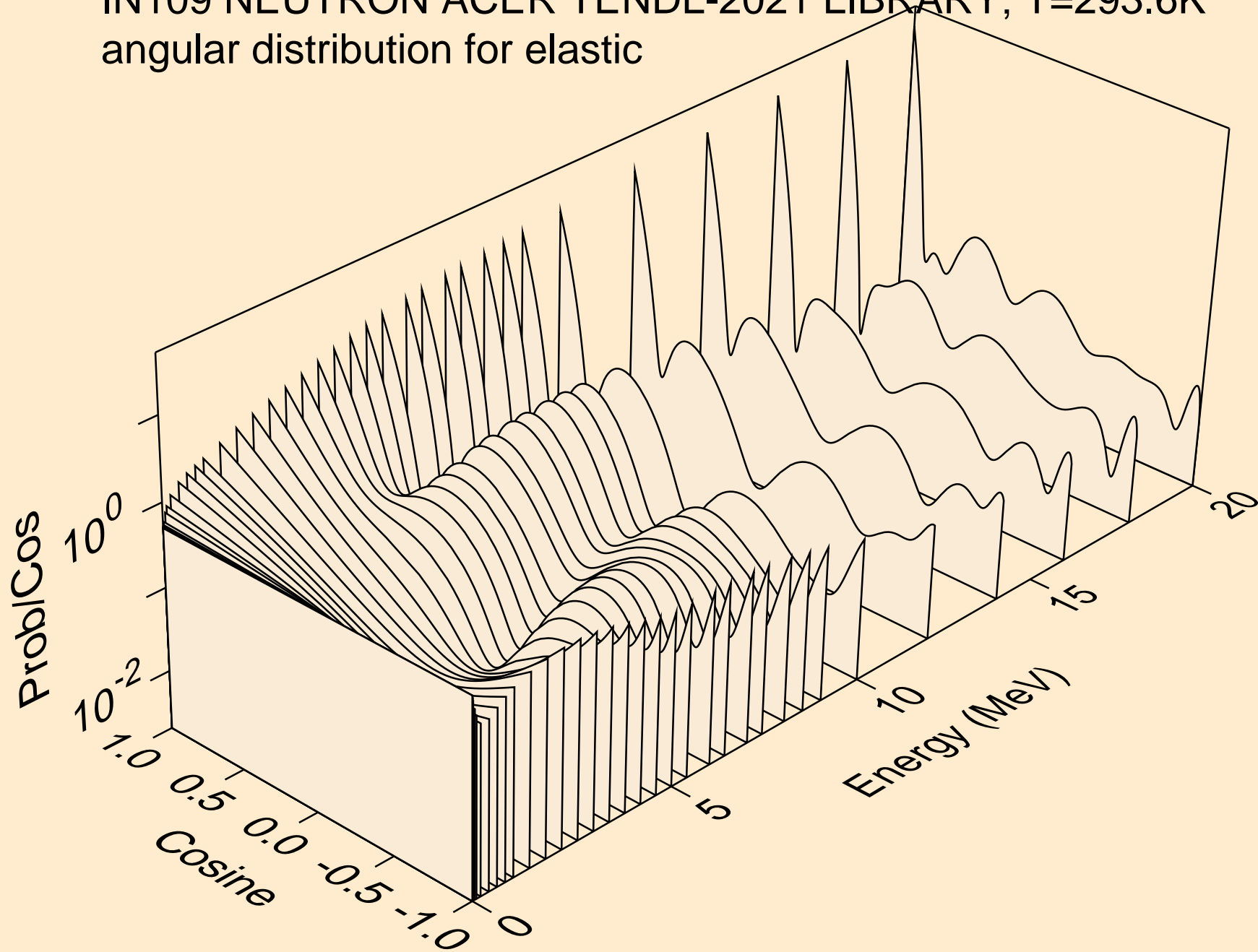
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



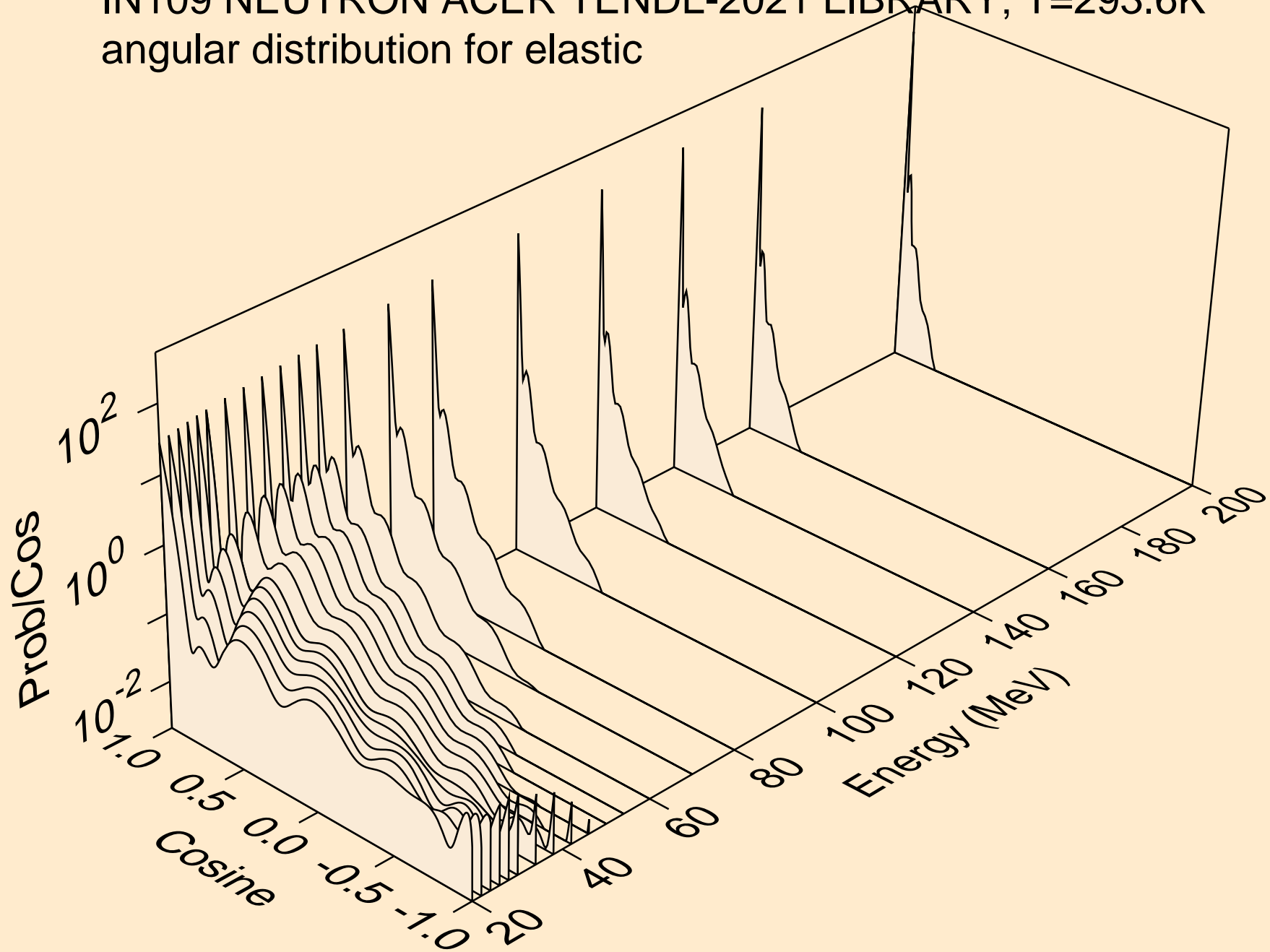
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



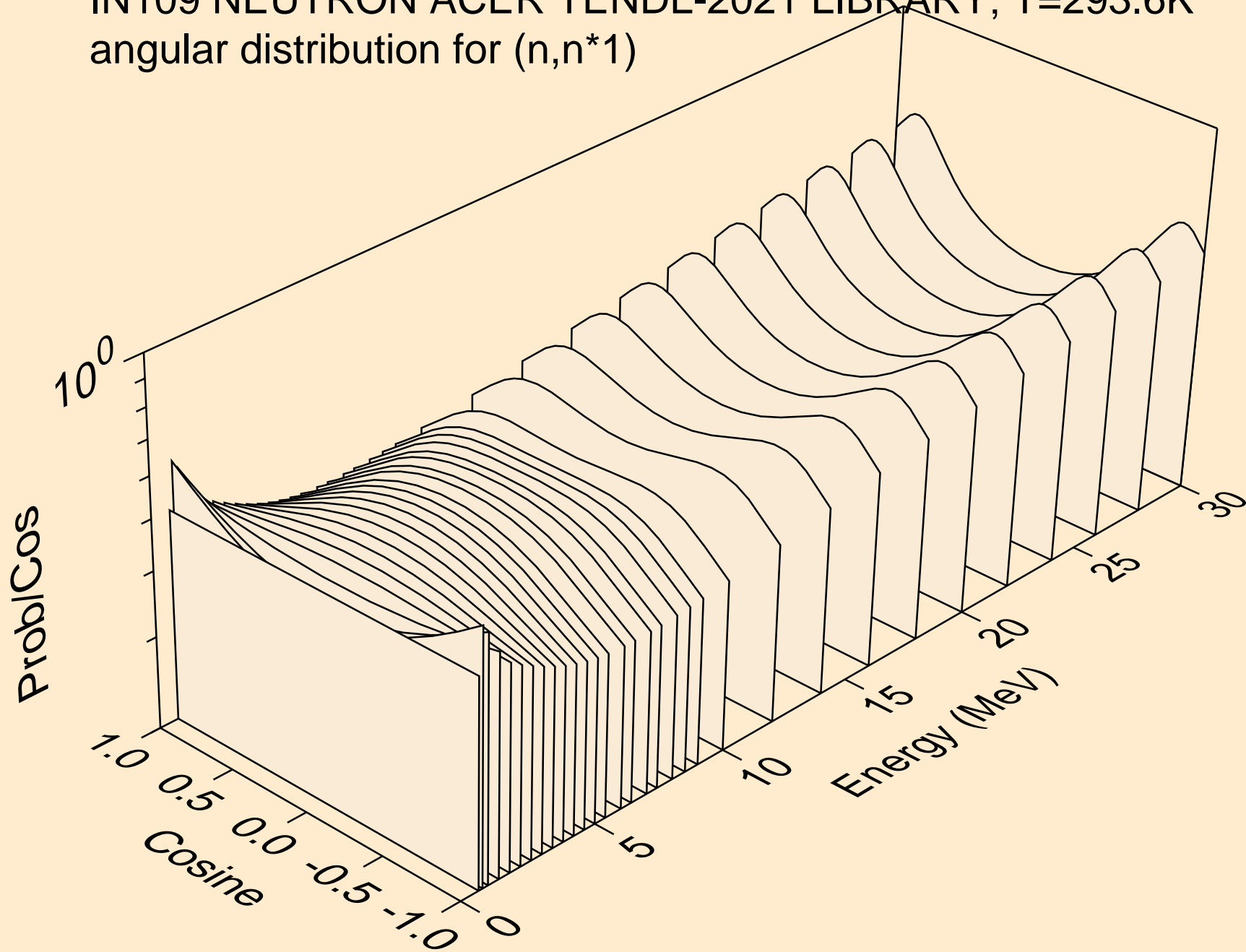
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

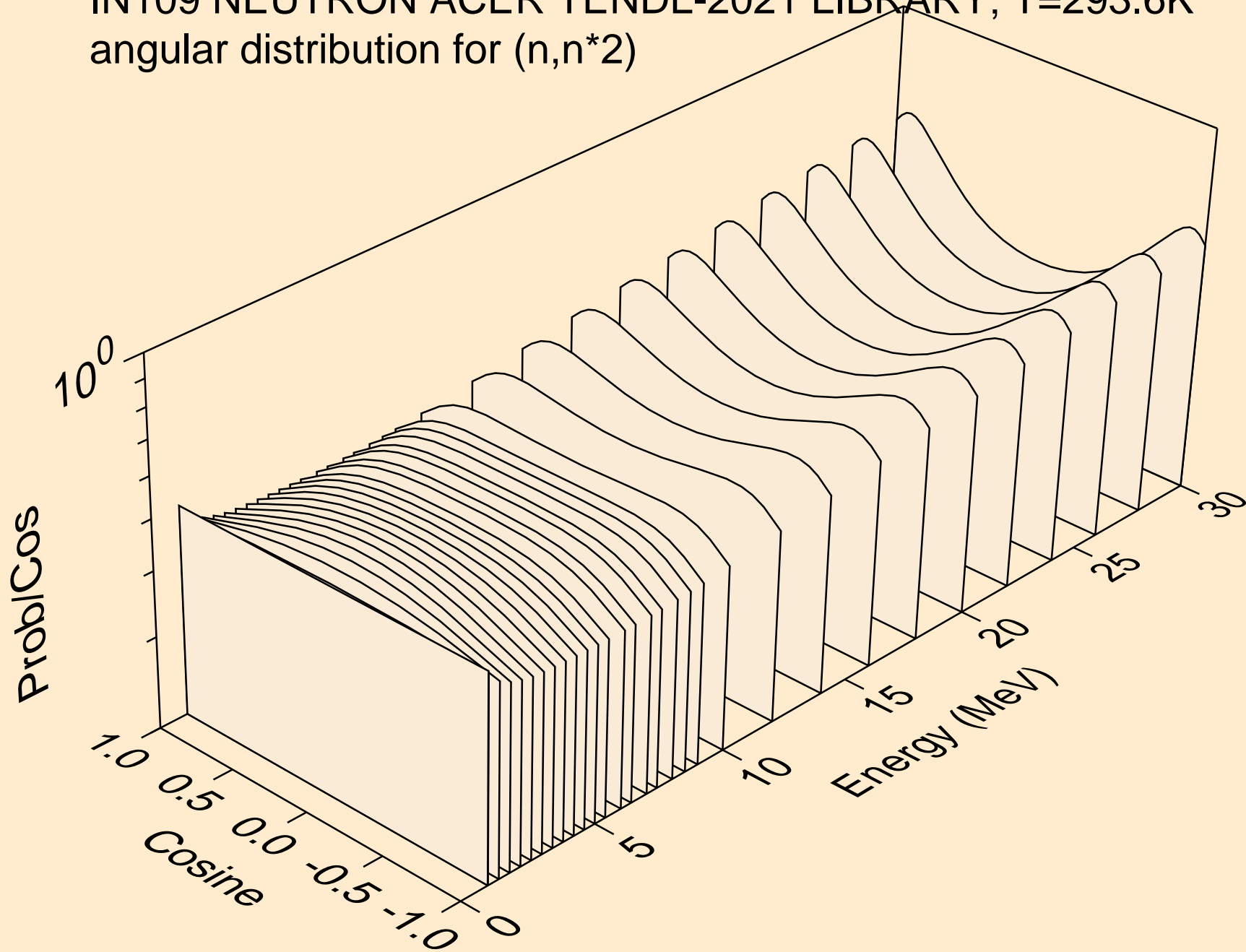


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

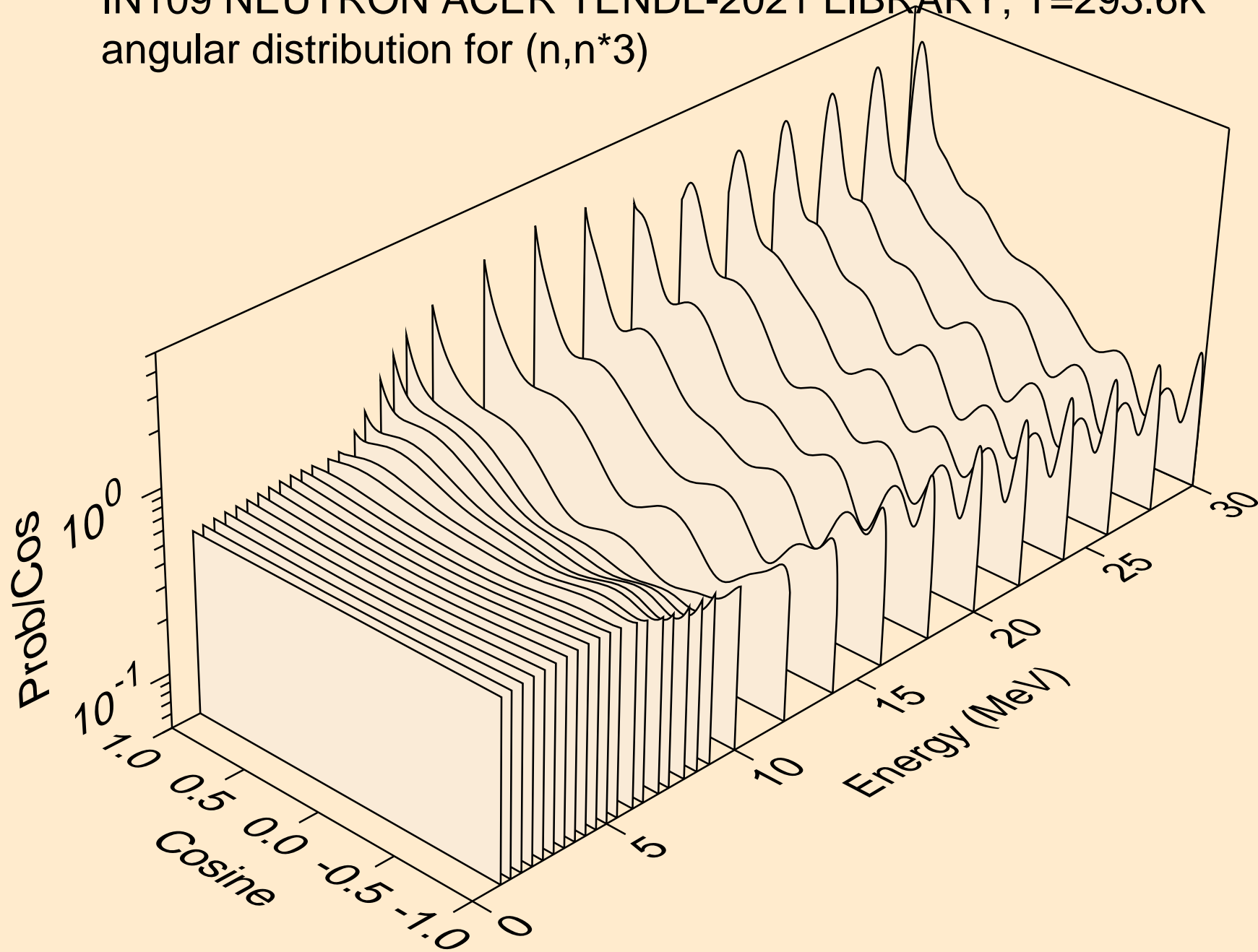




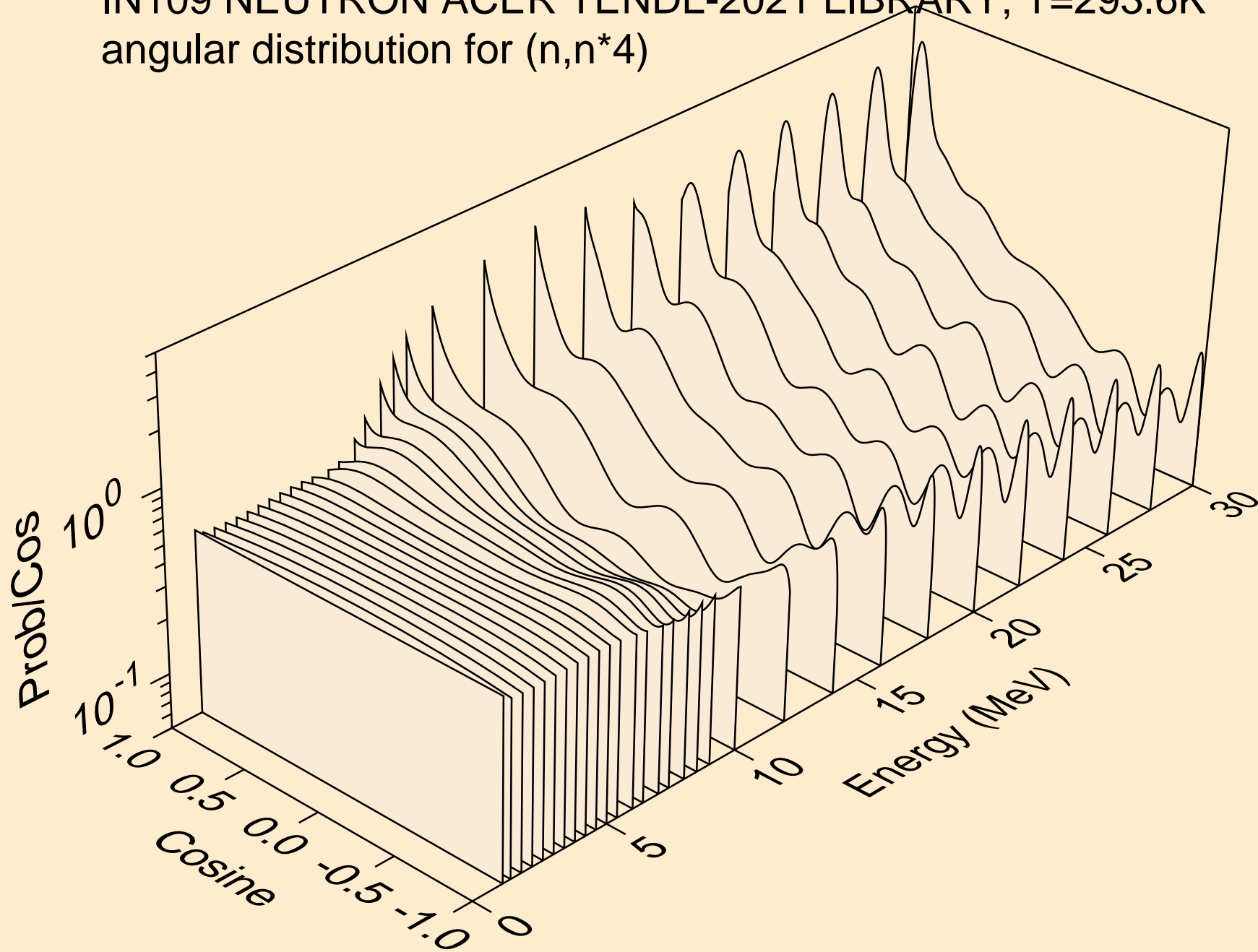
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angular distribution for (n,n\*2)



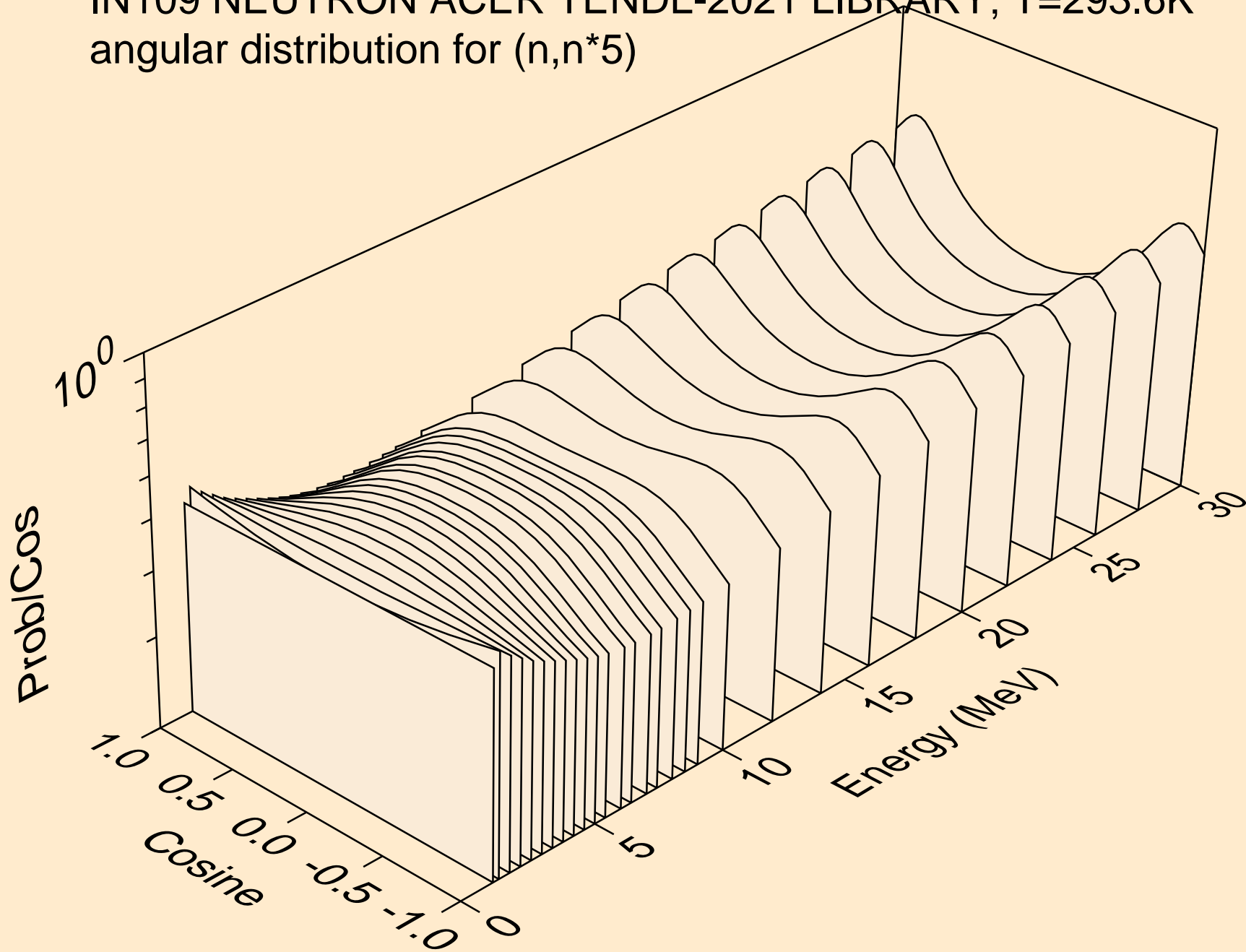
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angular distribution for (n,n\*3)



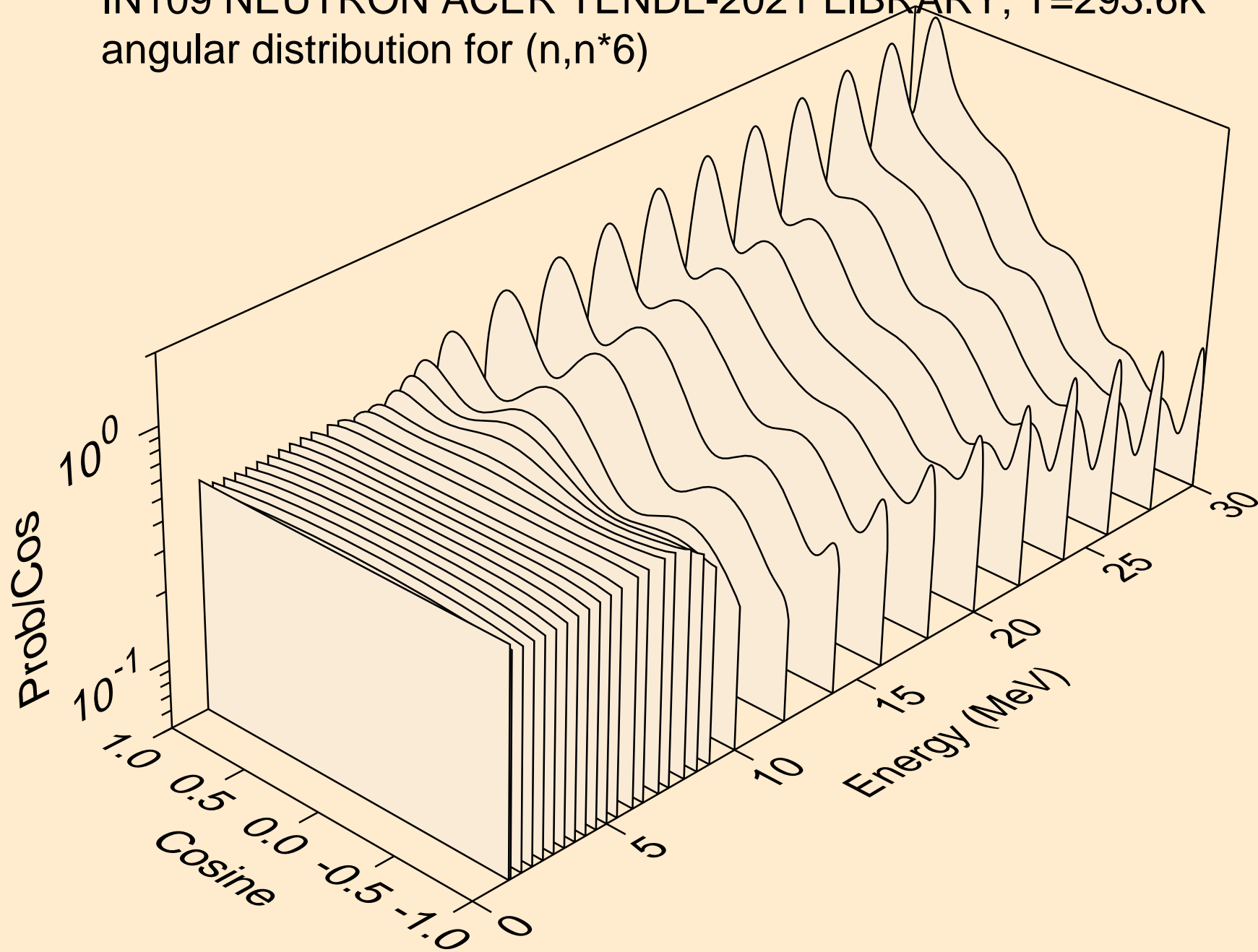
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angular distribution for (n,n\*4)



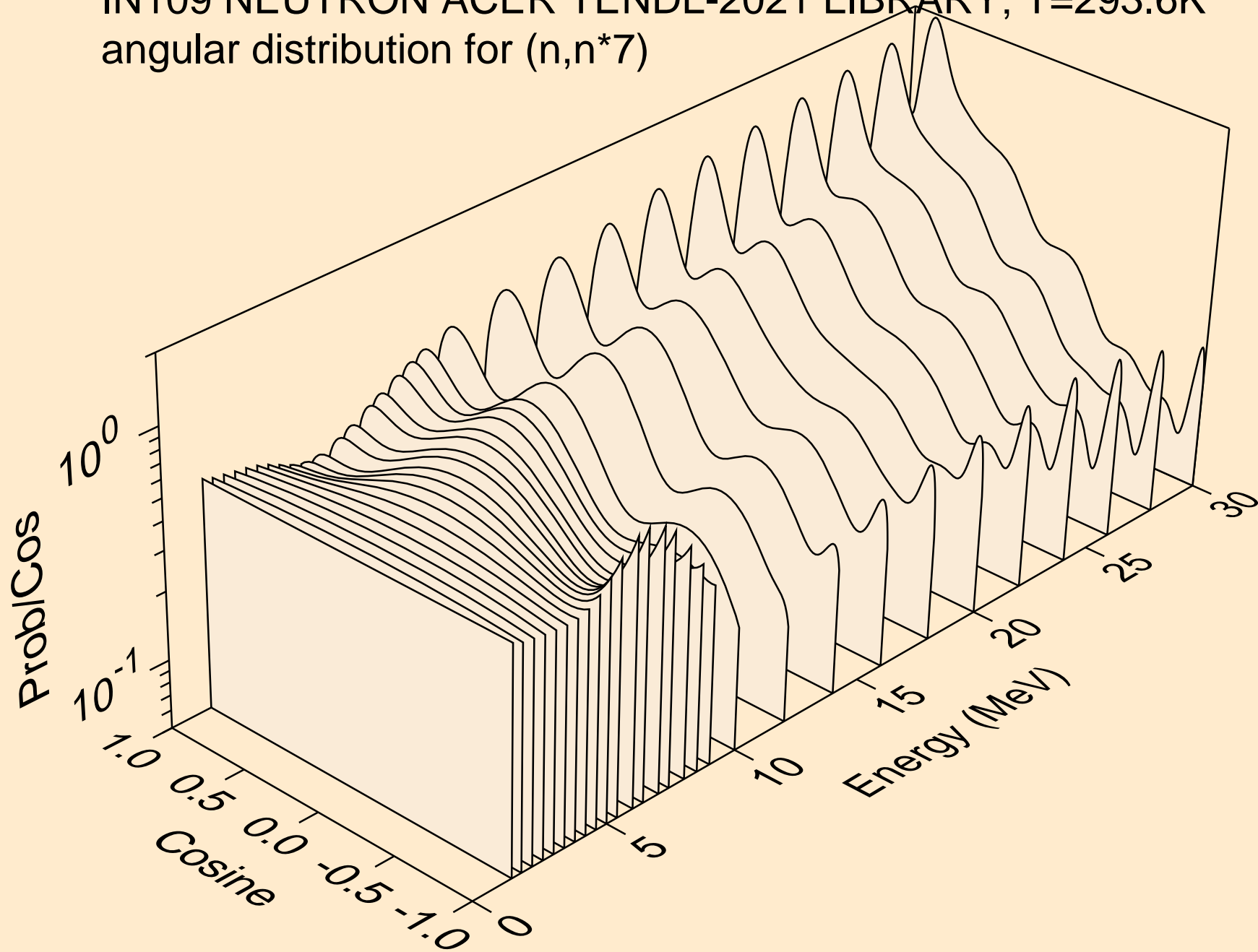
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angular distribution for (n,n\*5)



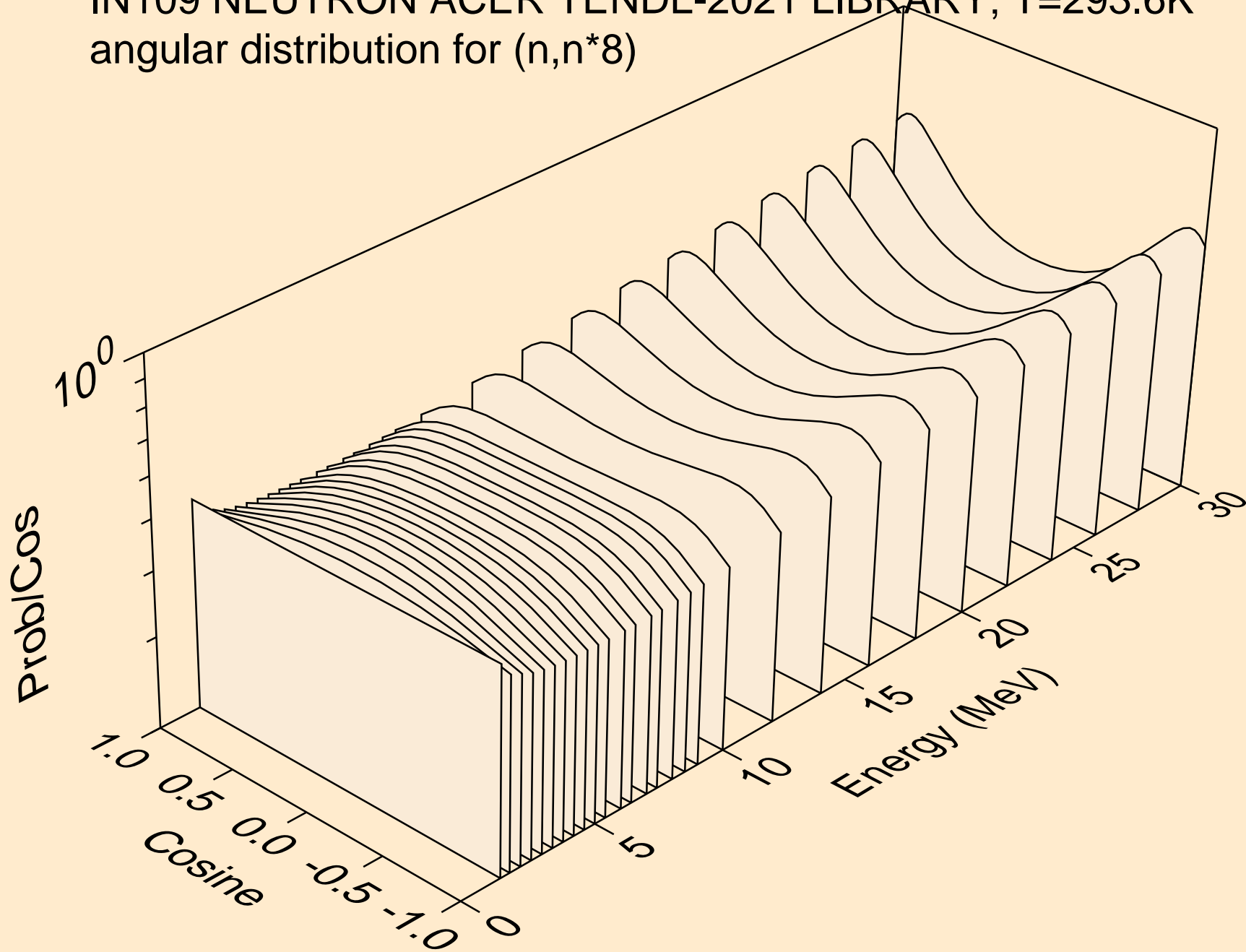
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angular distribution for (n,n\*6)



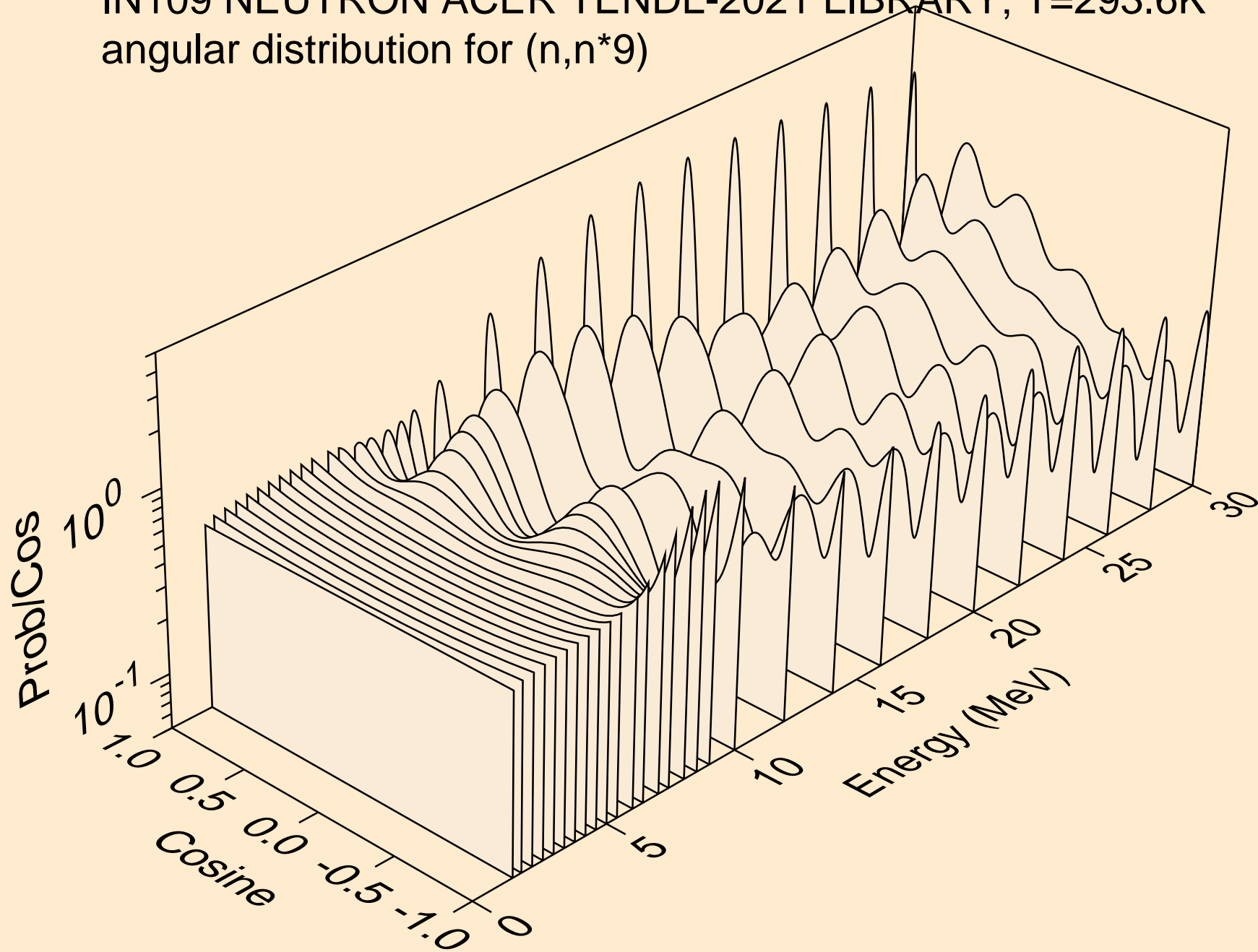
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

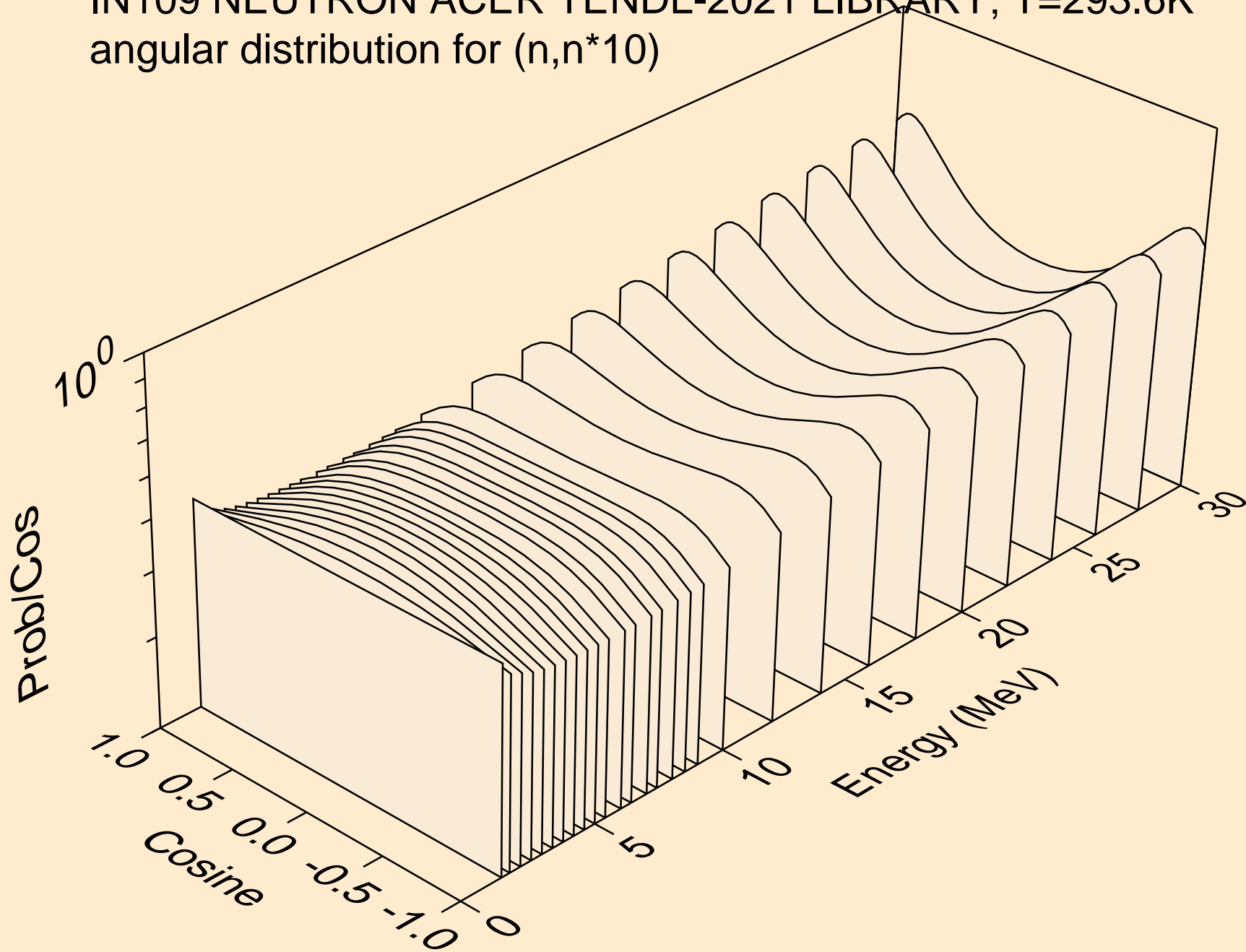


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

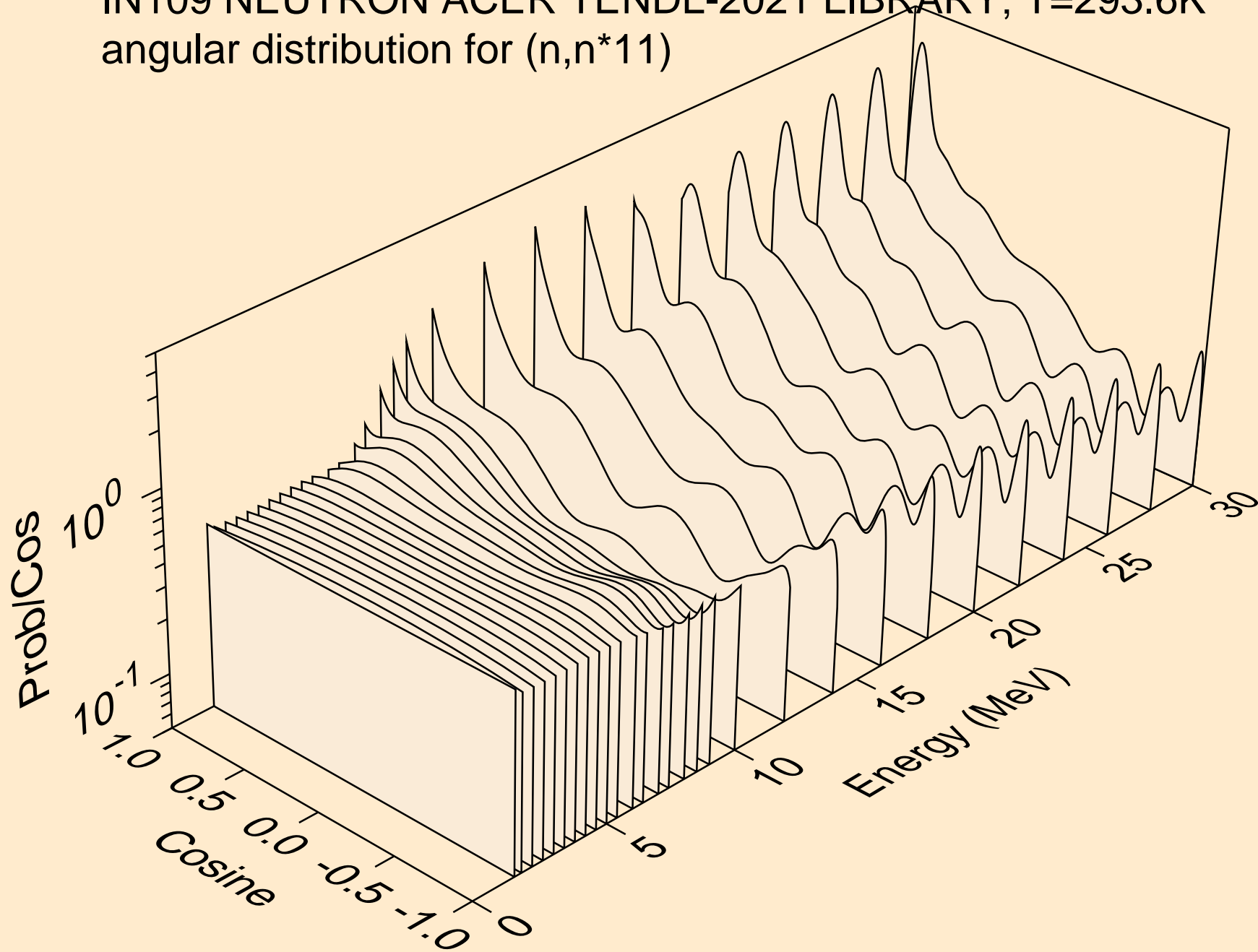




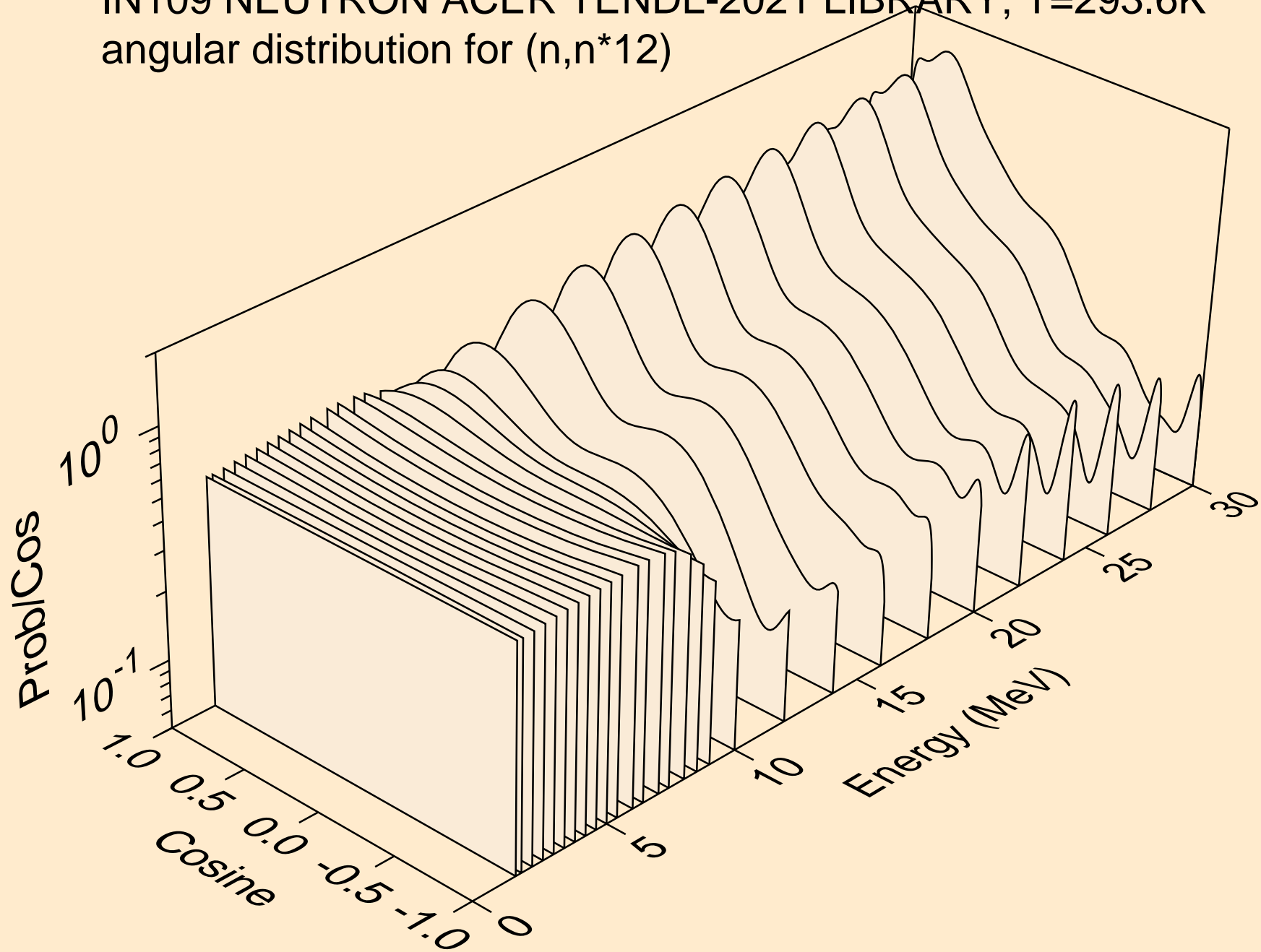
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angular distribution for (n,n\*10)



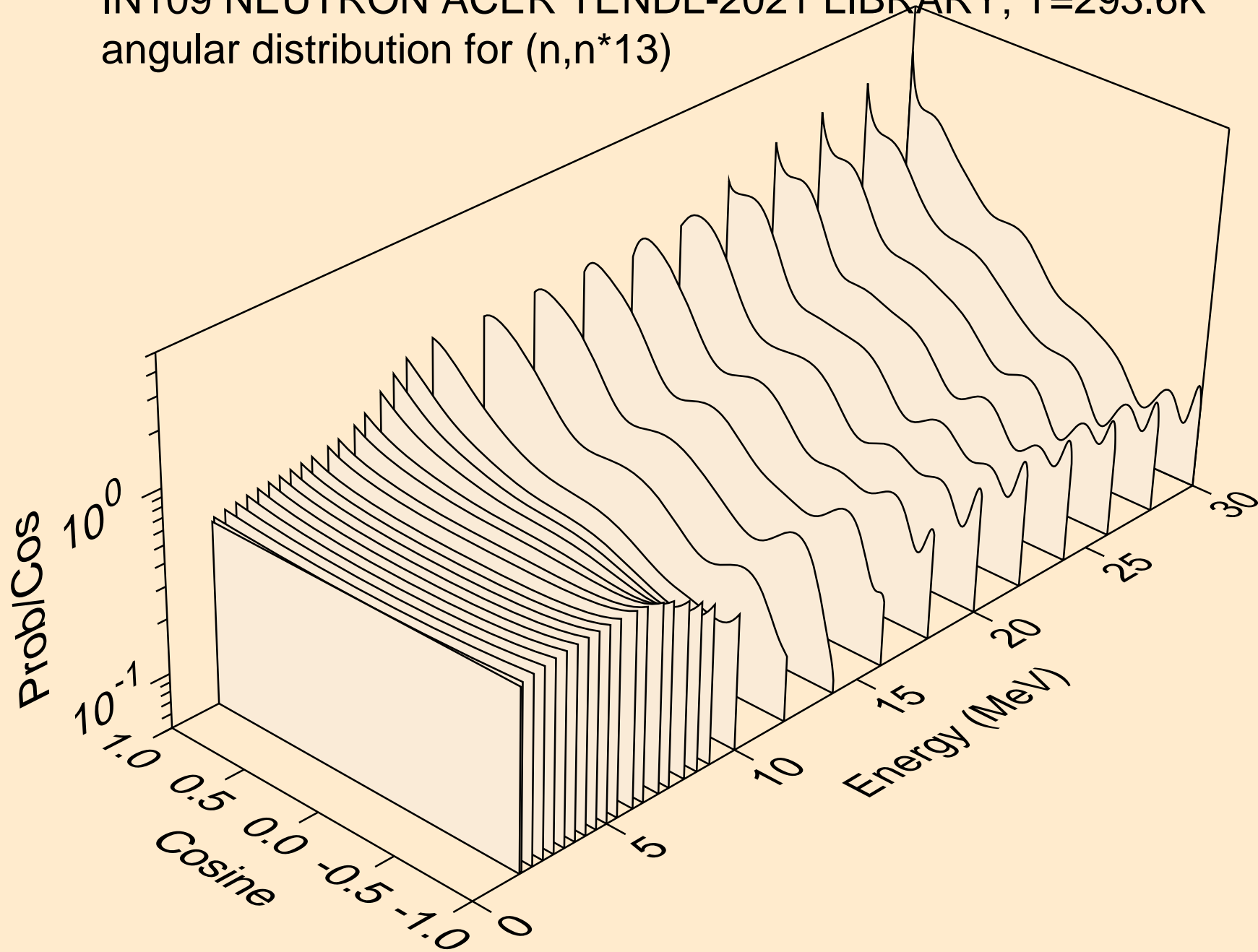
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angular distribution for (n,n\*11)



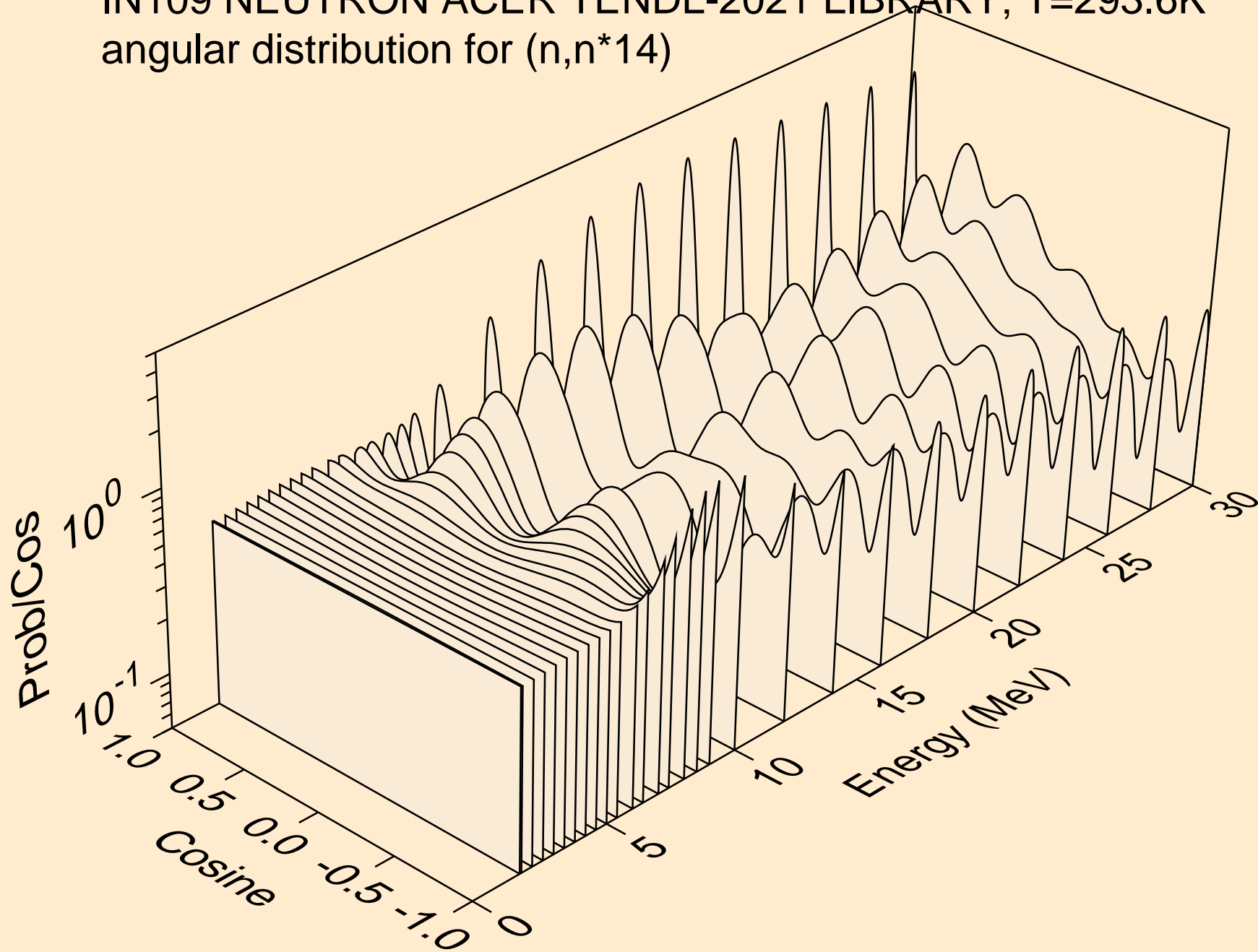
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angular distribution for (n,n\*12)



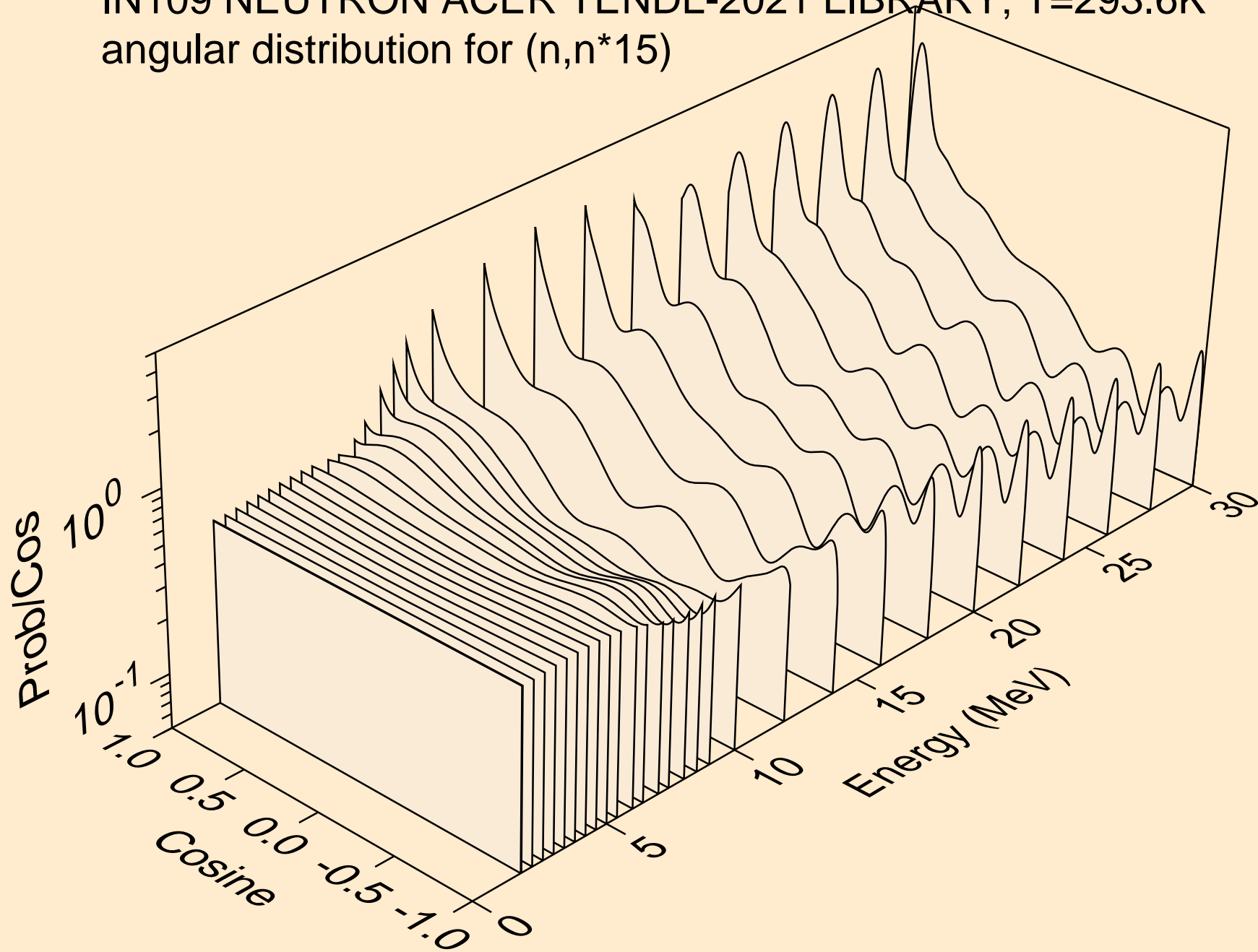
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angular distribution for (n,n\*13)



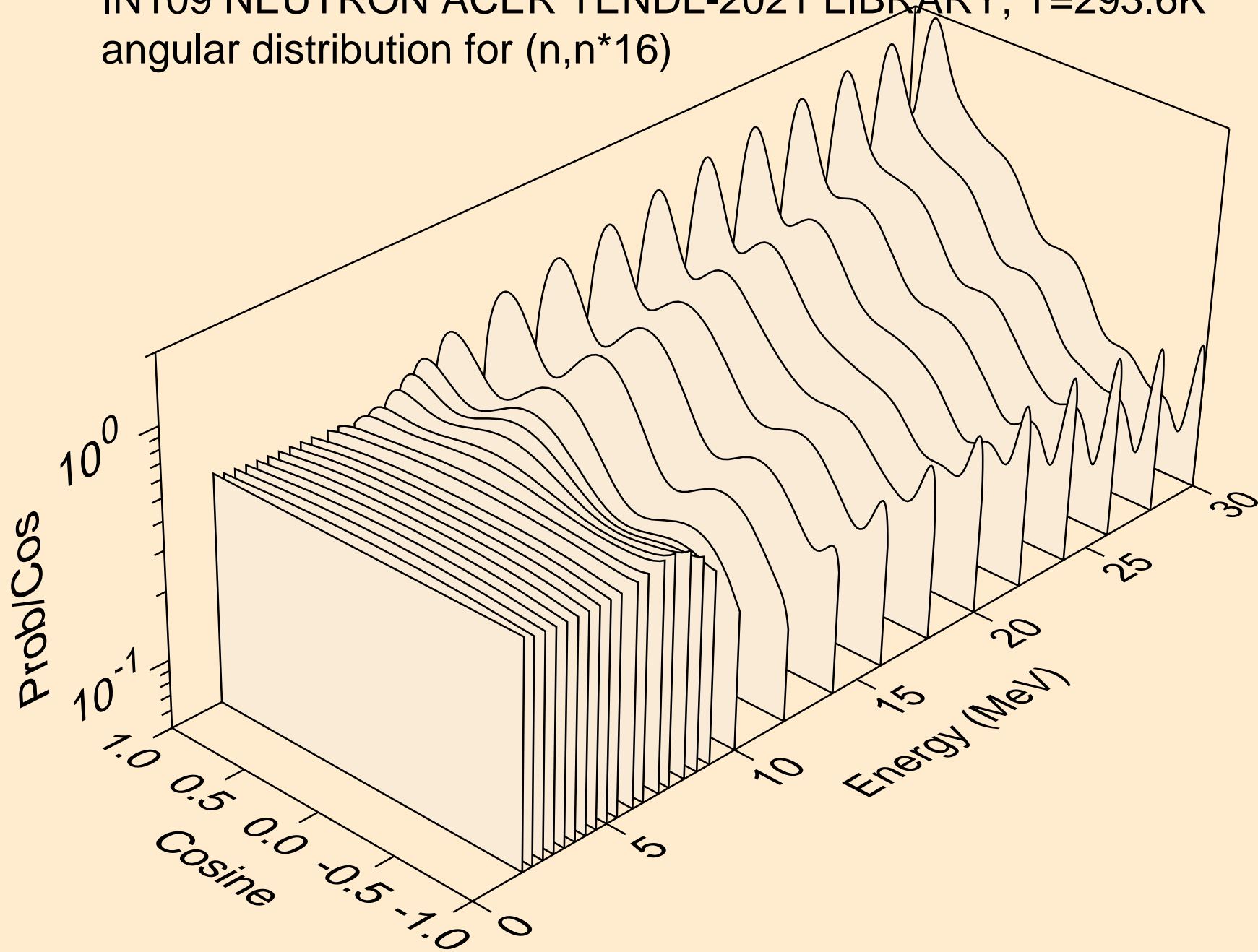
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angular distribution for (n,n\*14)



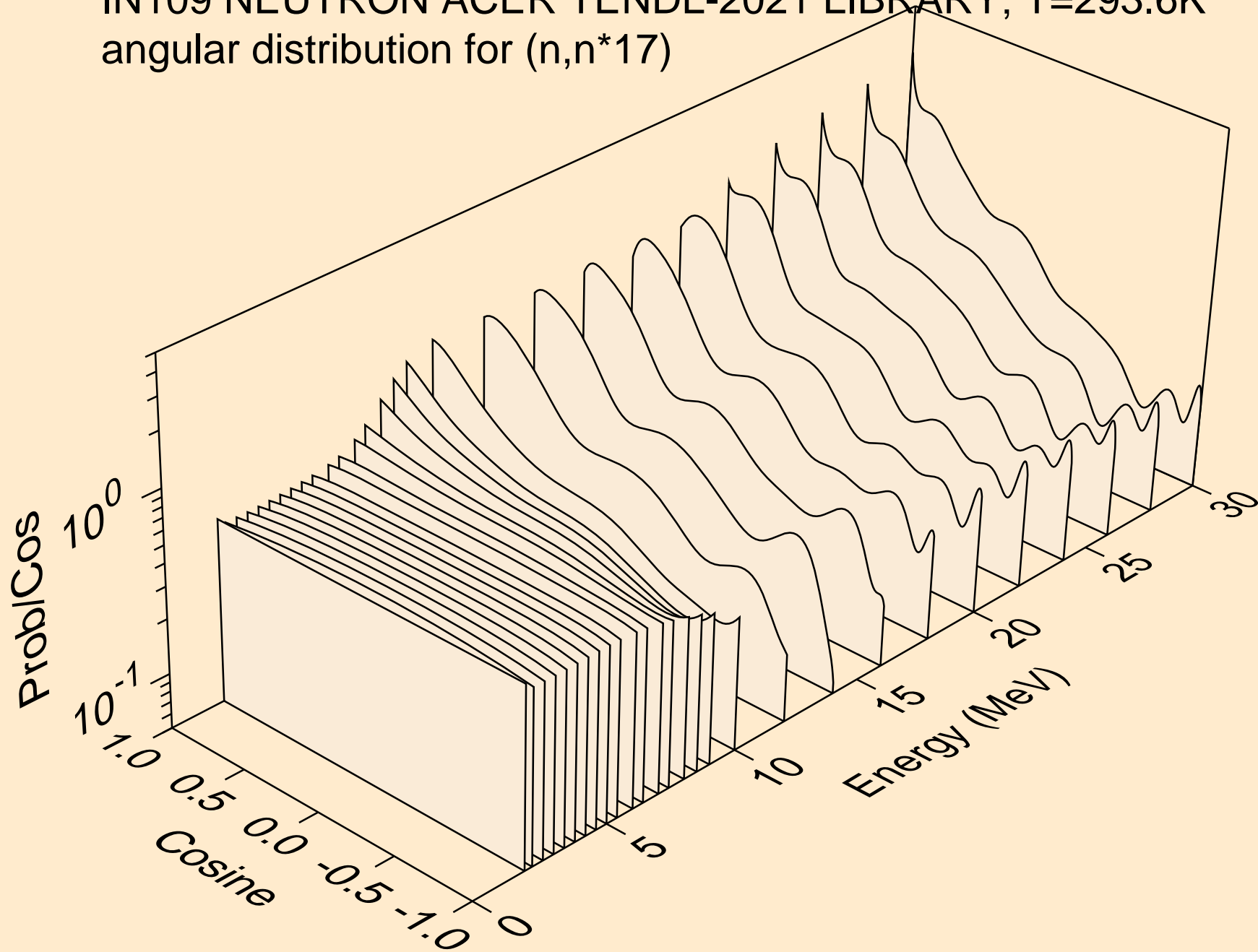
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)

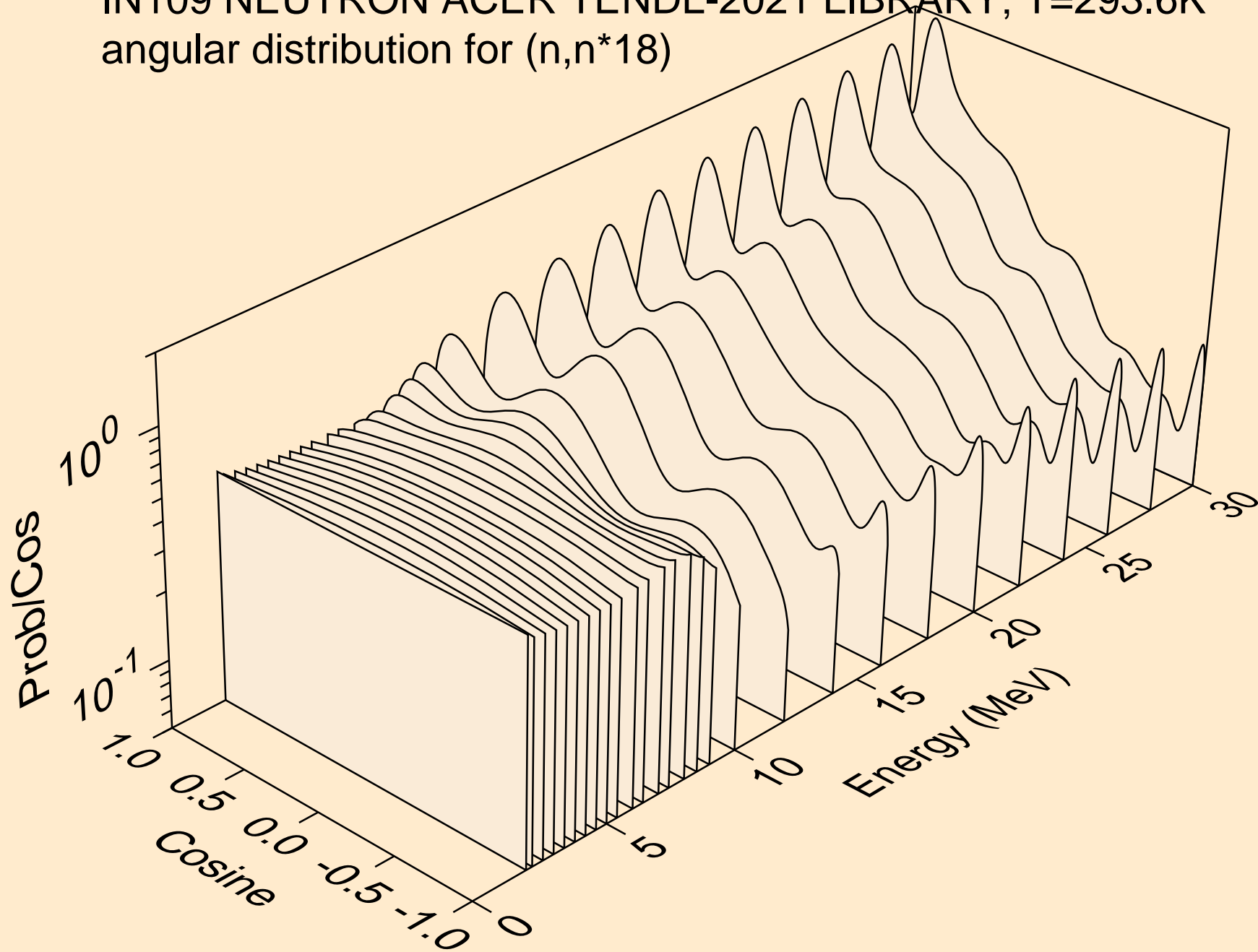


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

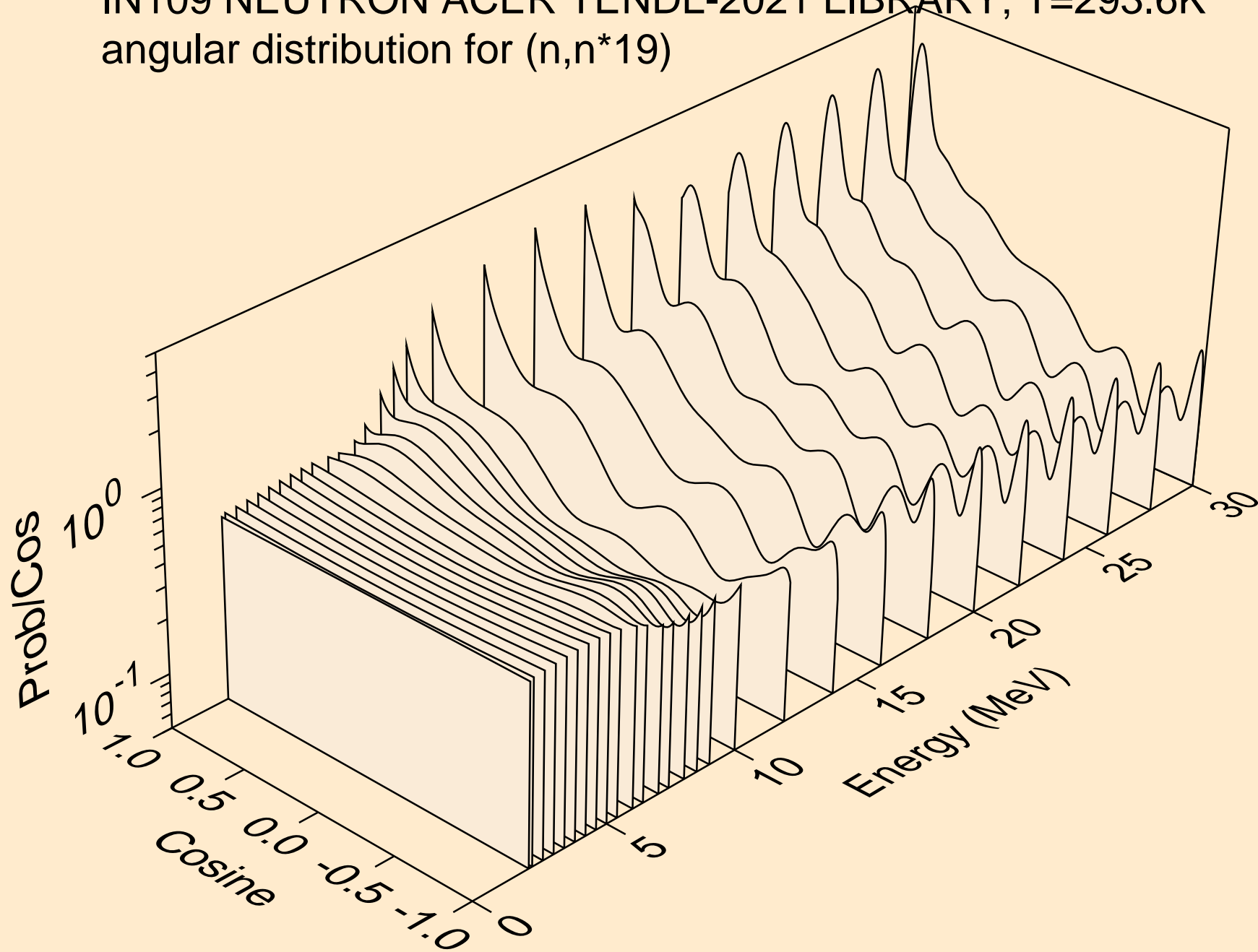




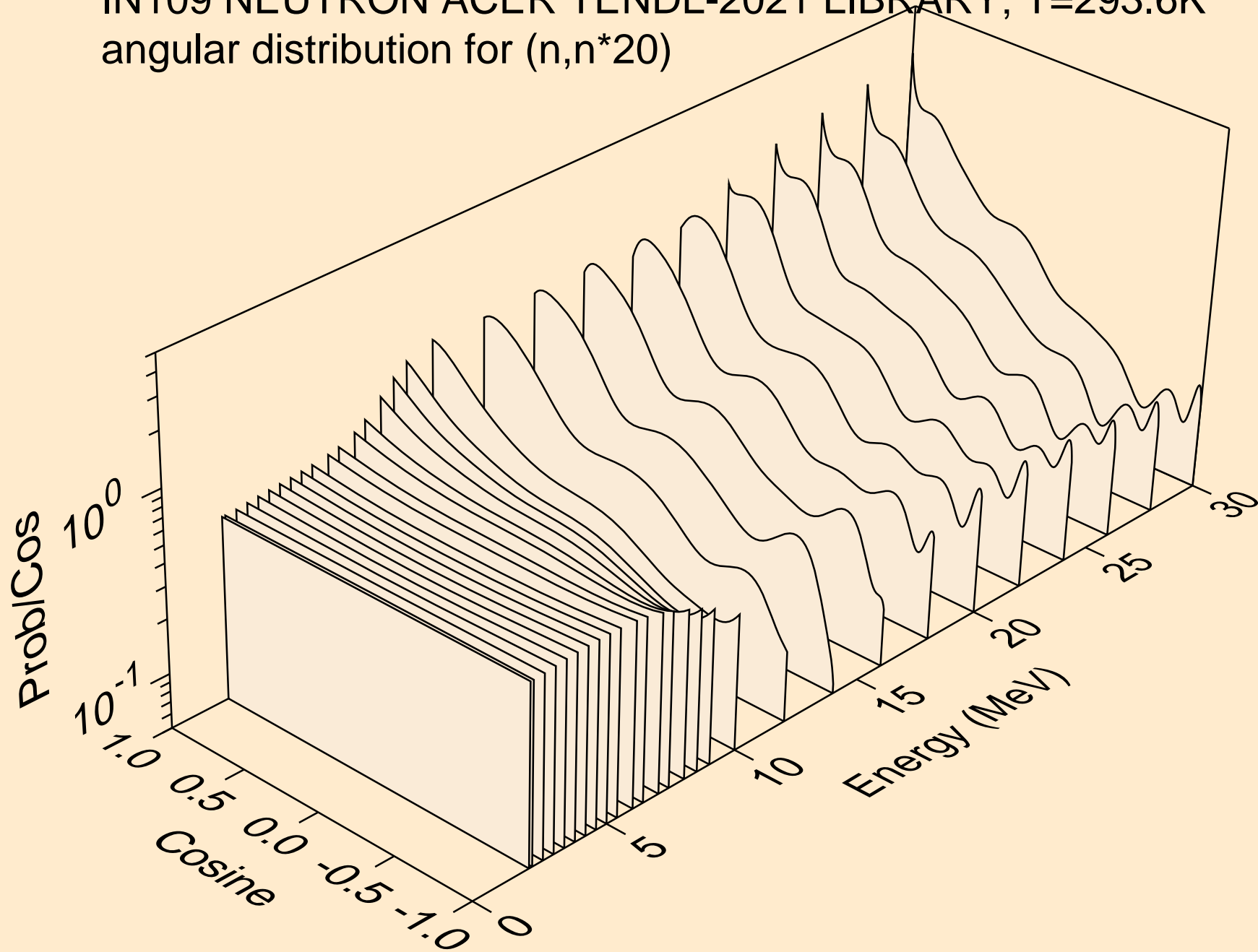
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angular distribution for (n,n\*18)



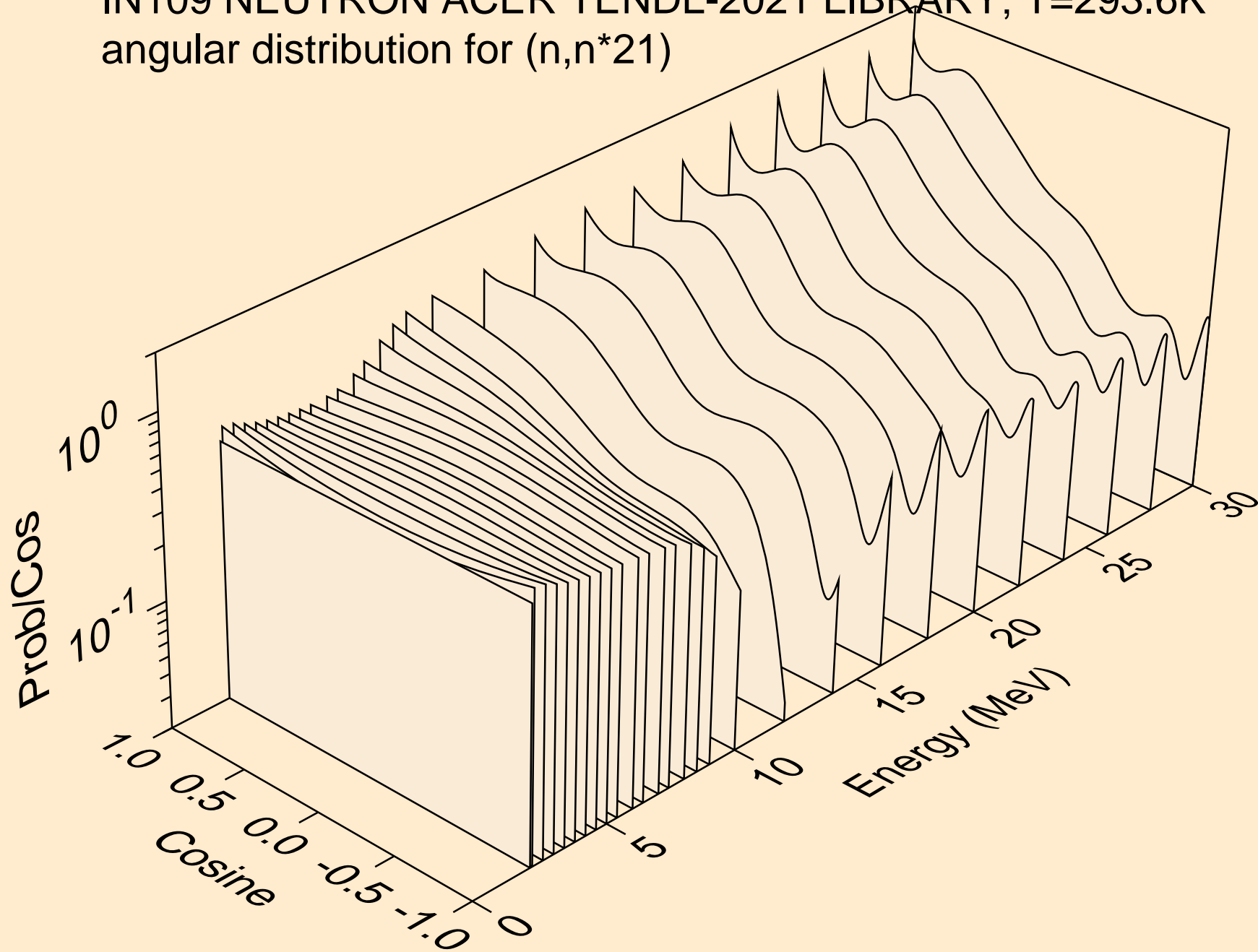
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angular distribution for (n,n\*19)



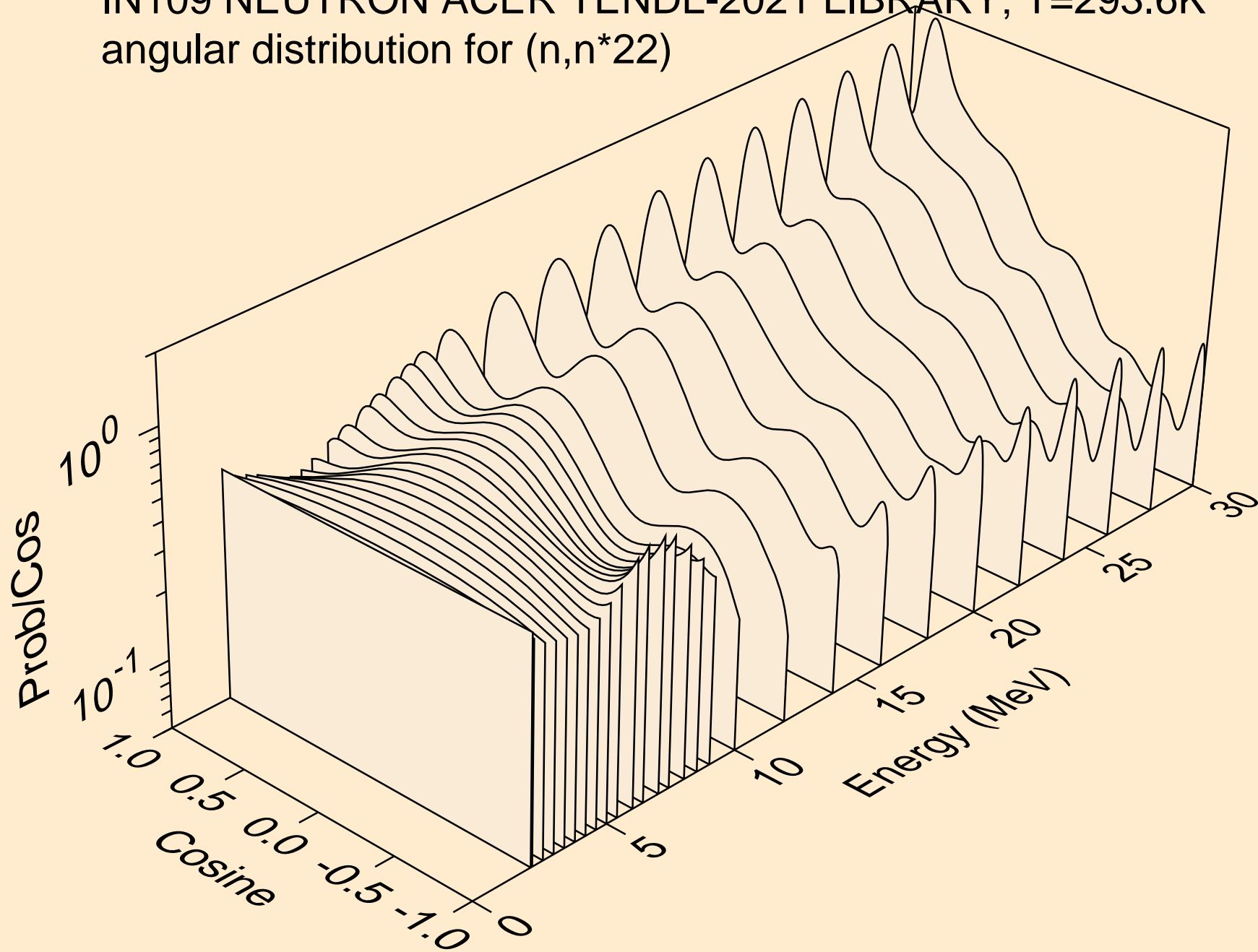
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angular distribution for (n,n\*20)



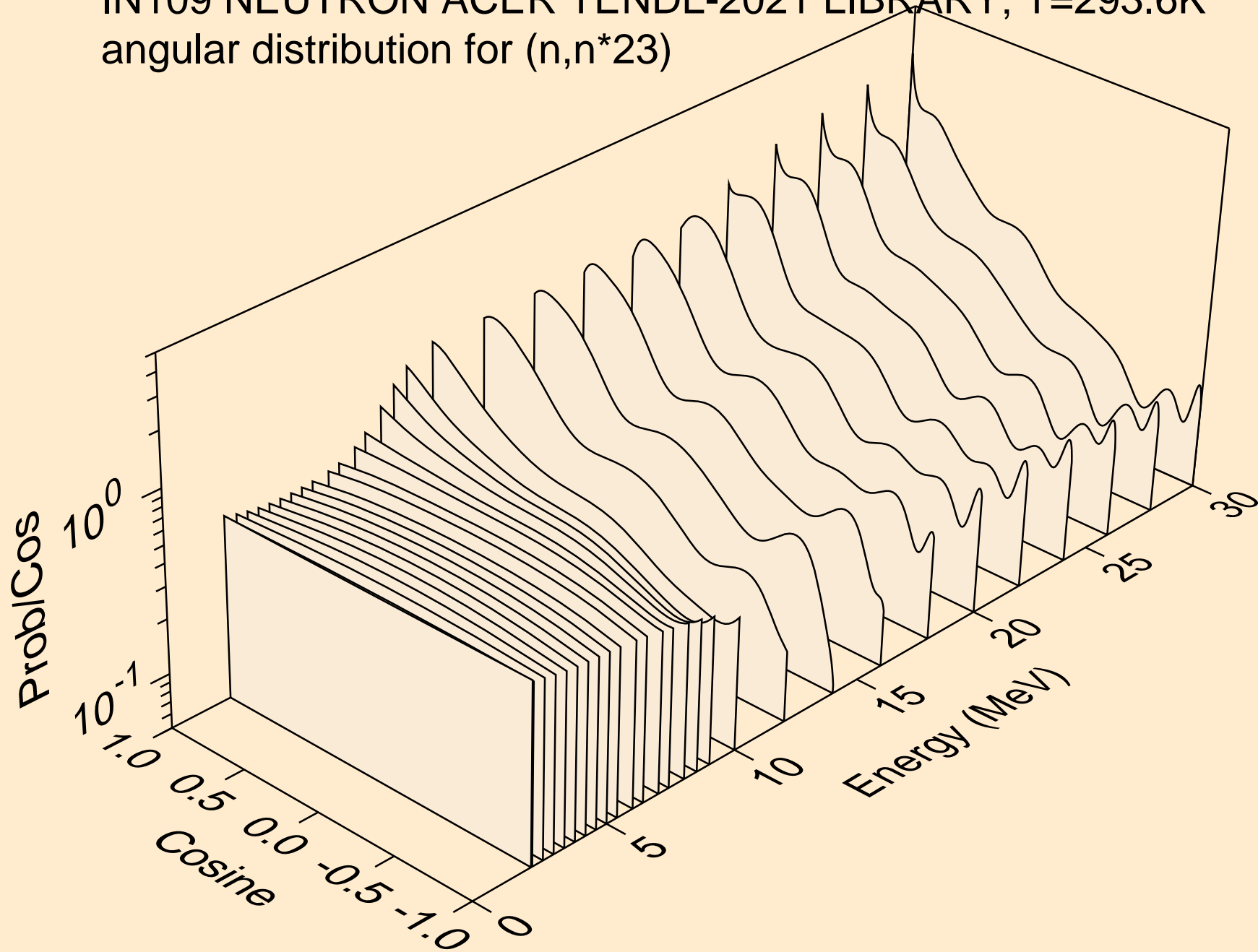
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angular distribution for (n,n\*21)



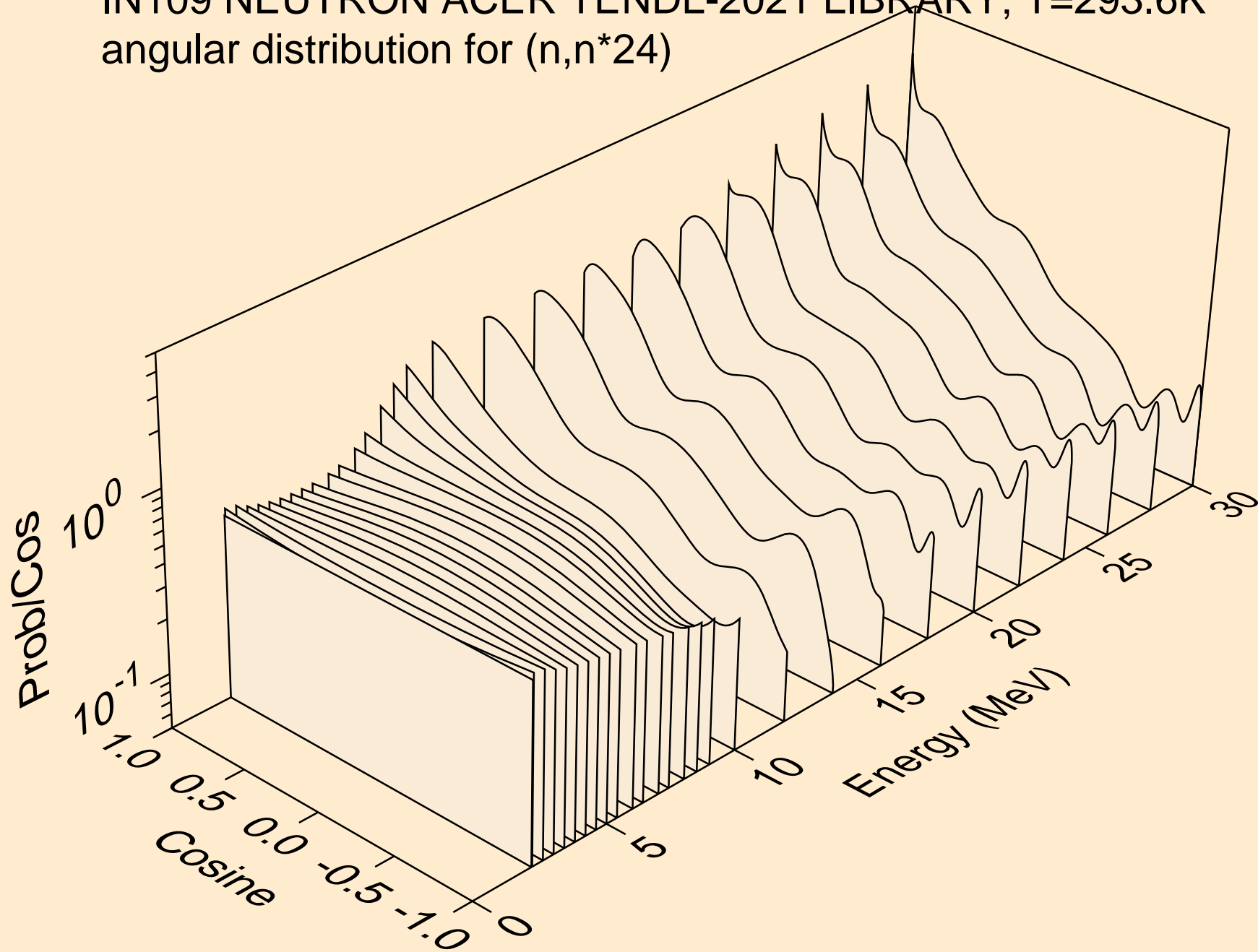
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angular distribution for (n,n\*22)



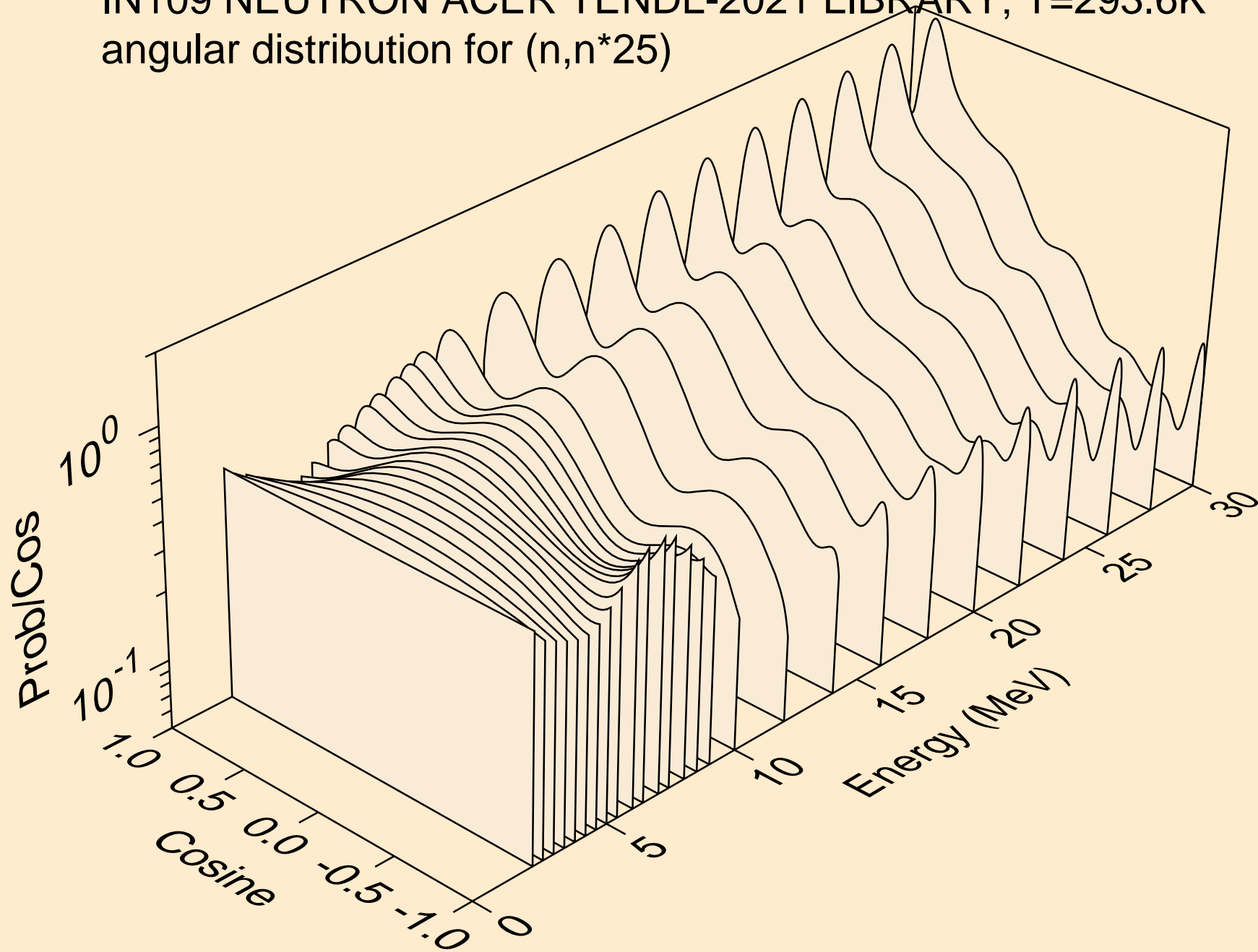
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)

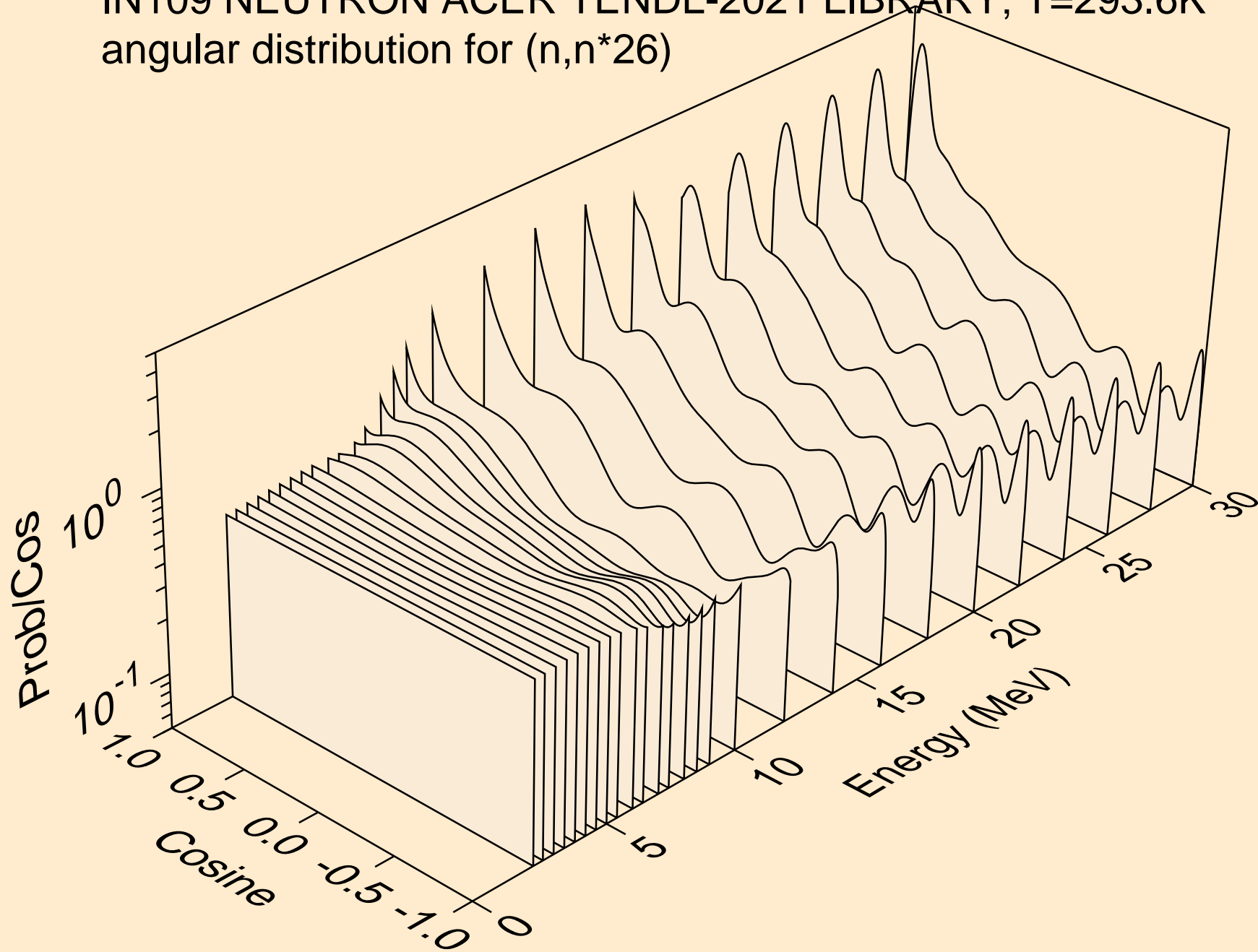


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

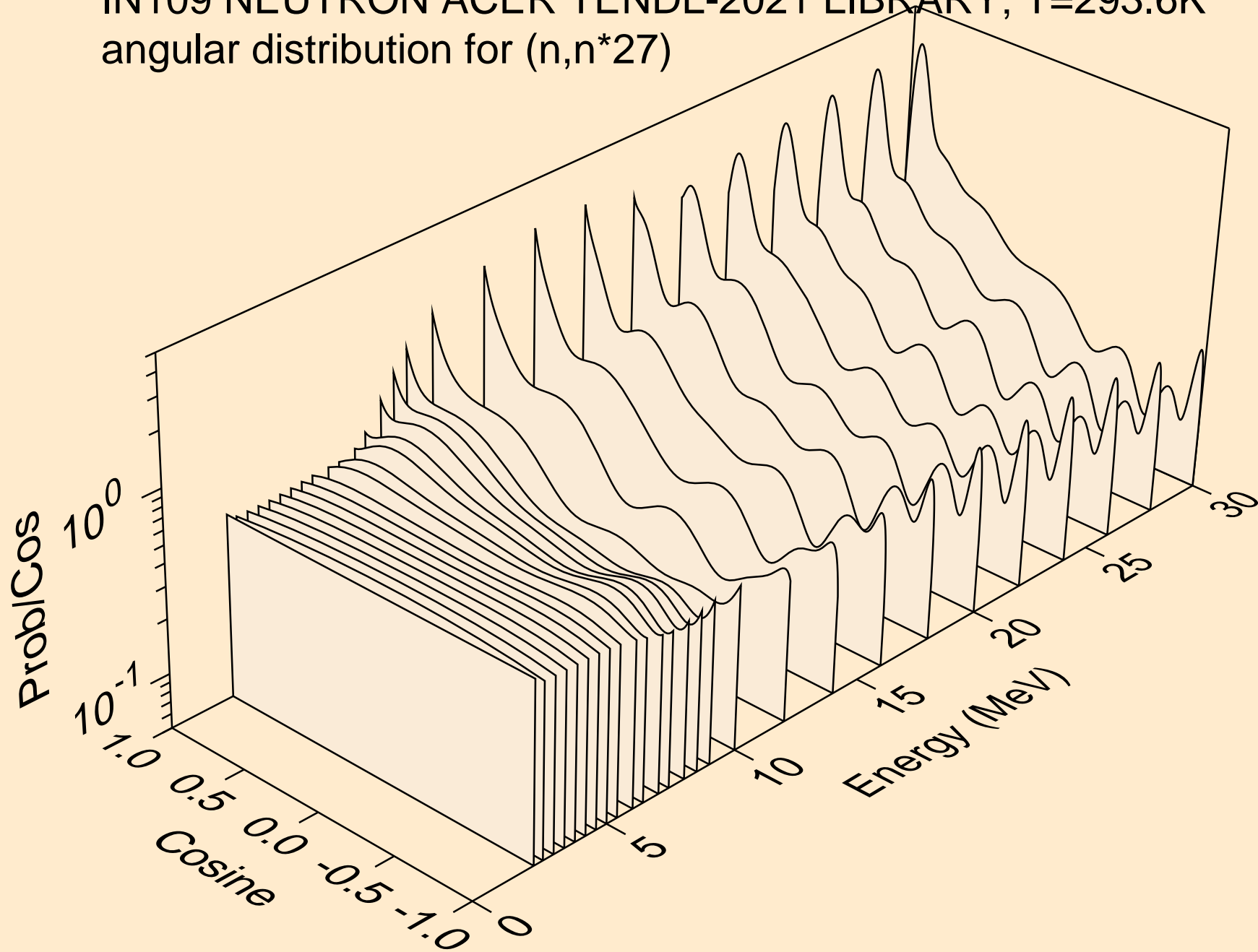




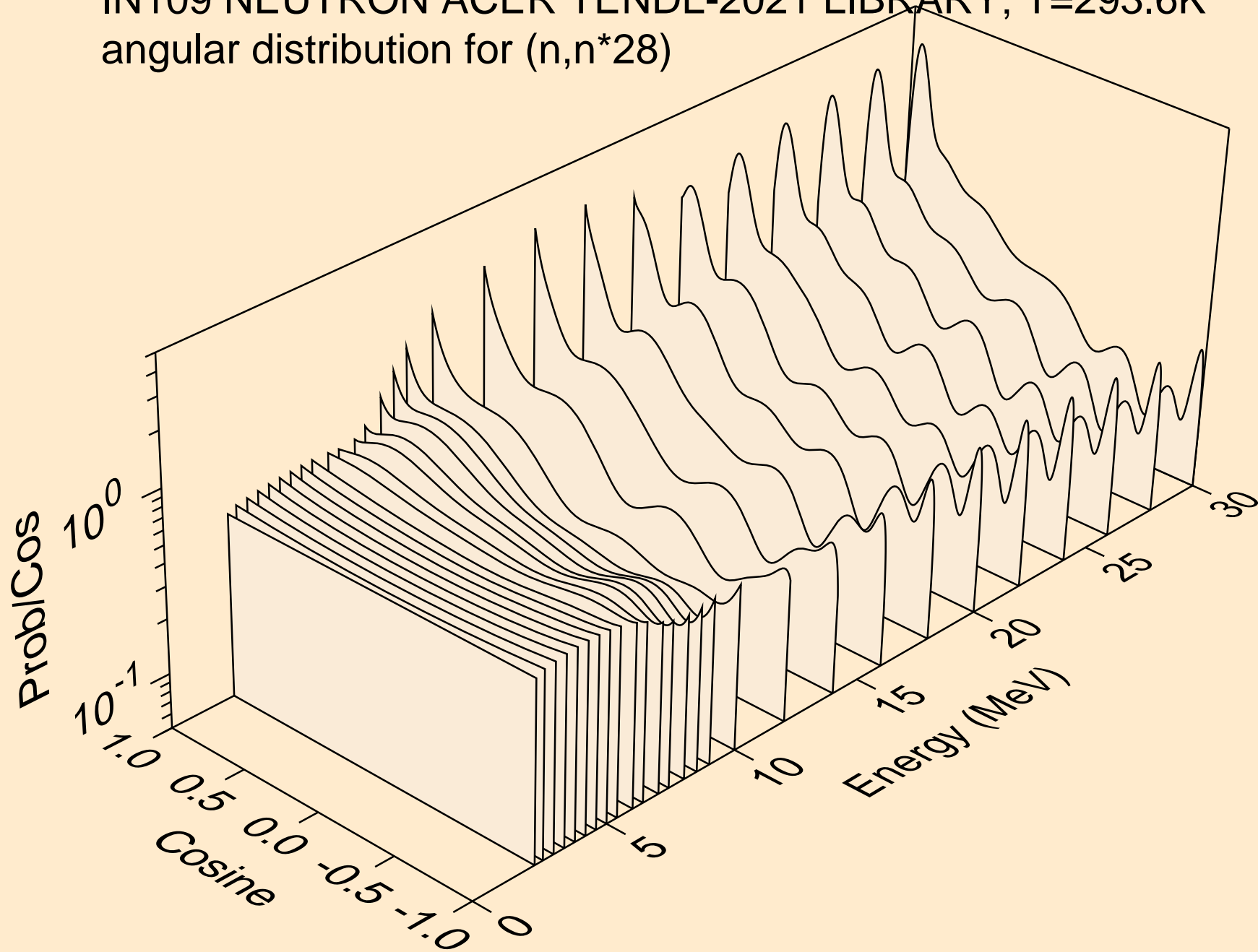
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angular distribution for (n,n\*26)



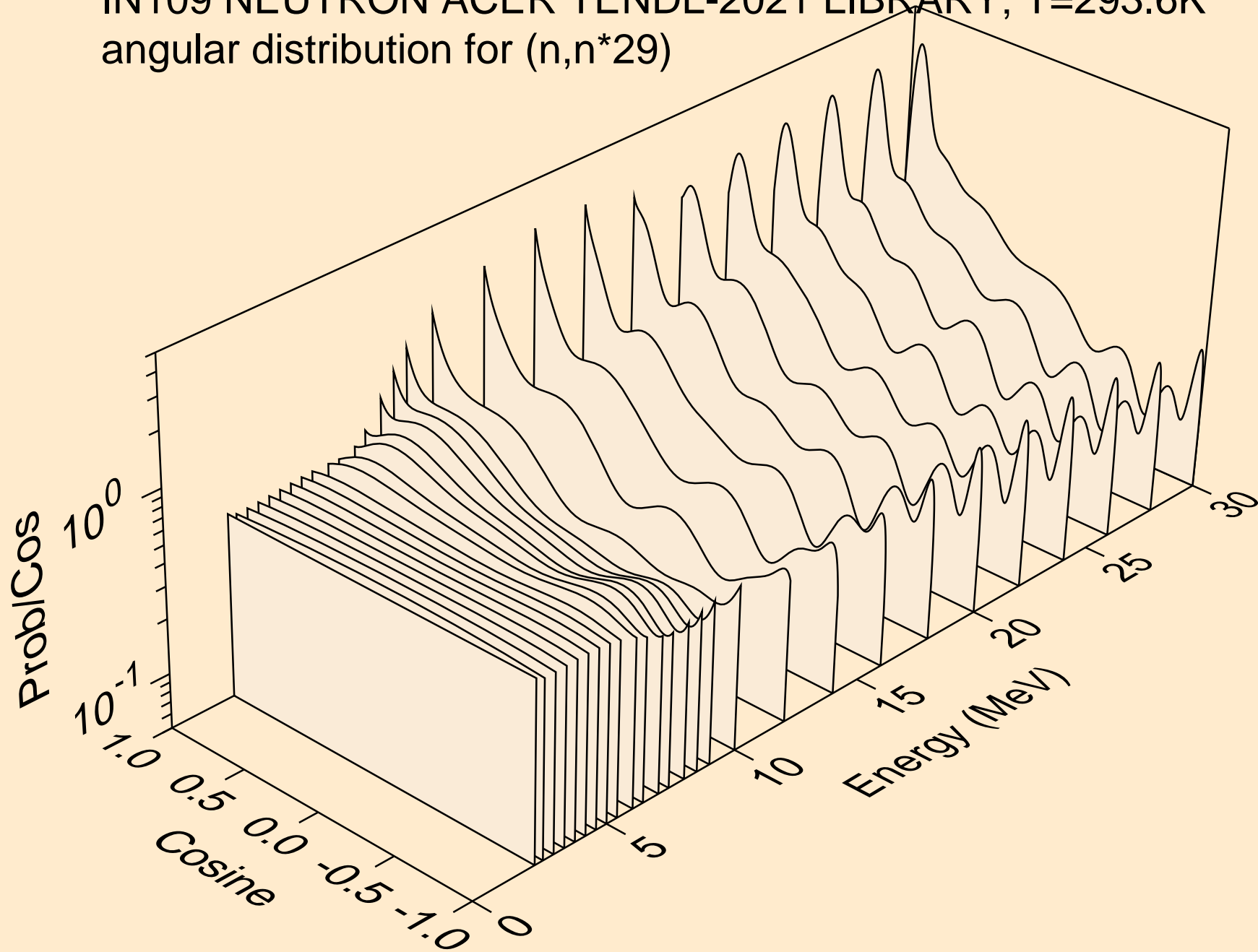
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



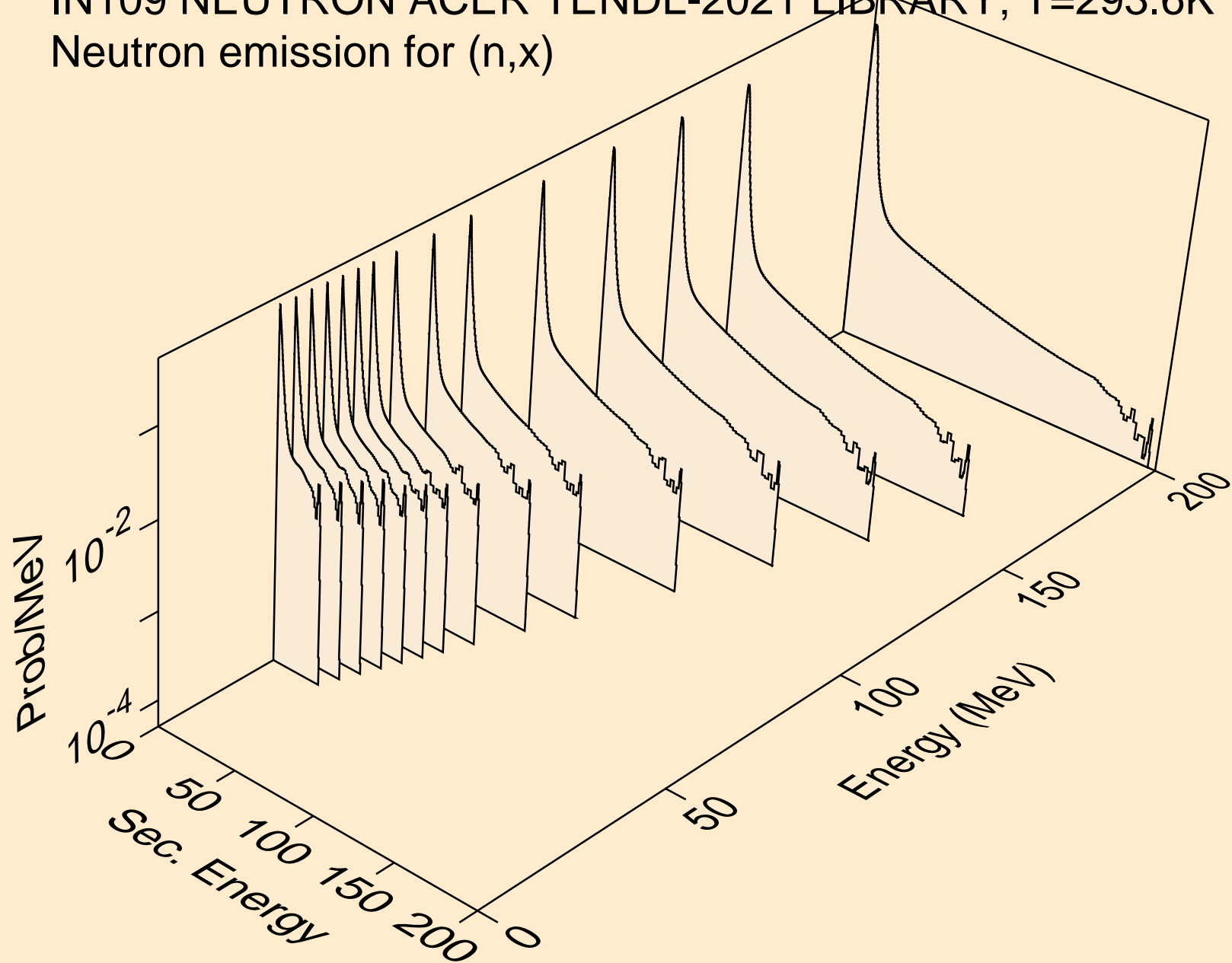
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angular distribution for (n,n\*28)



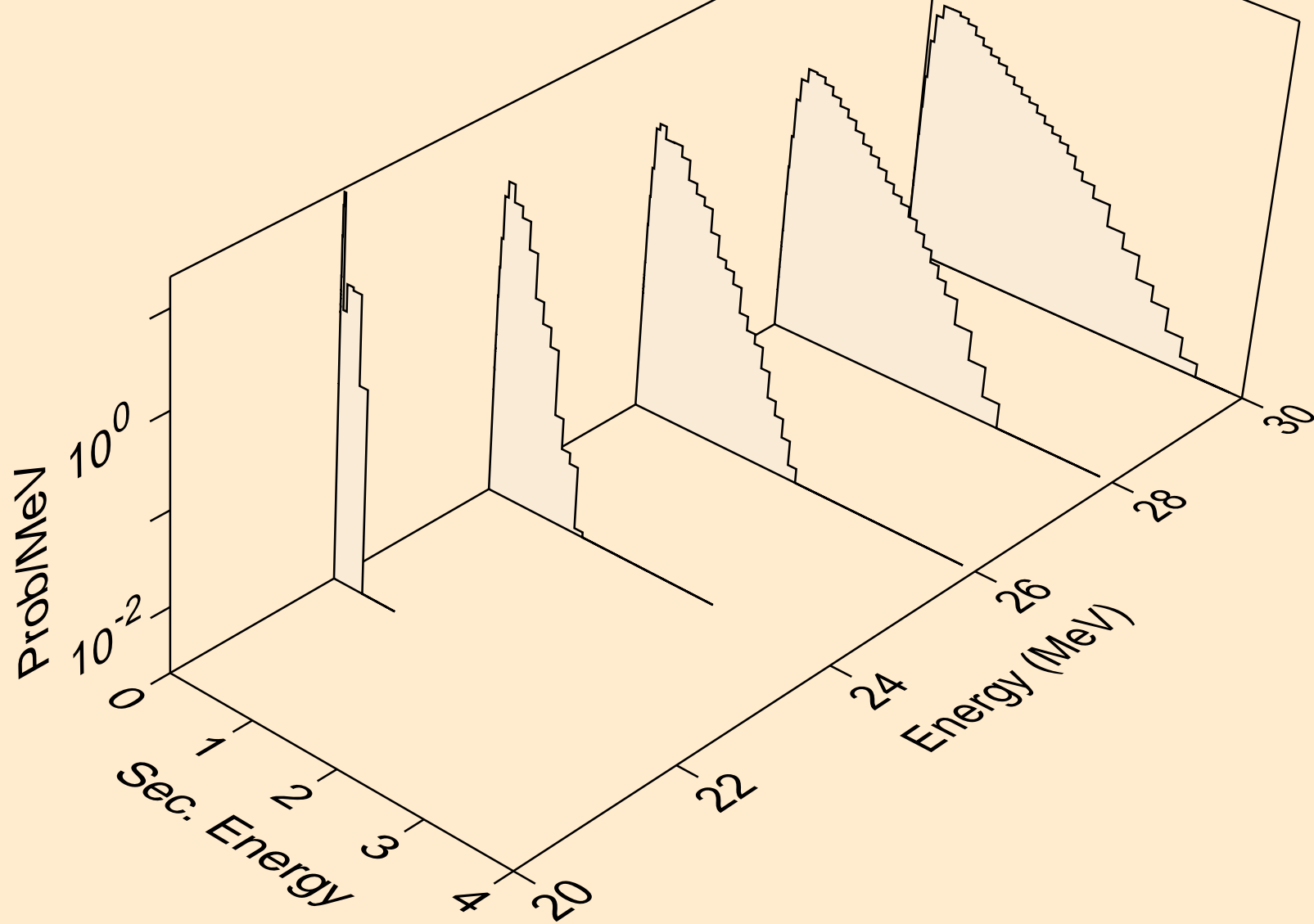
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angular distribution for (n,n\*29)



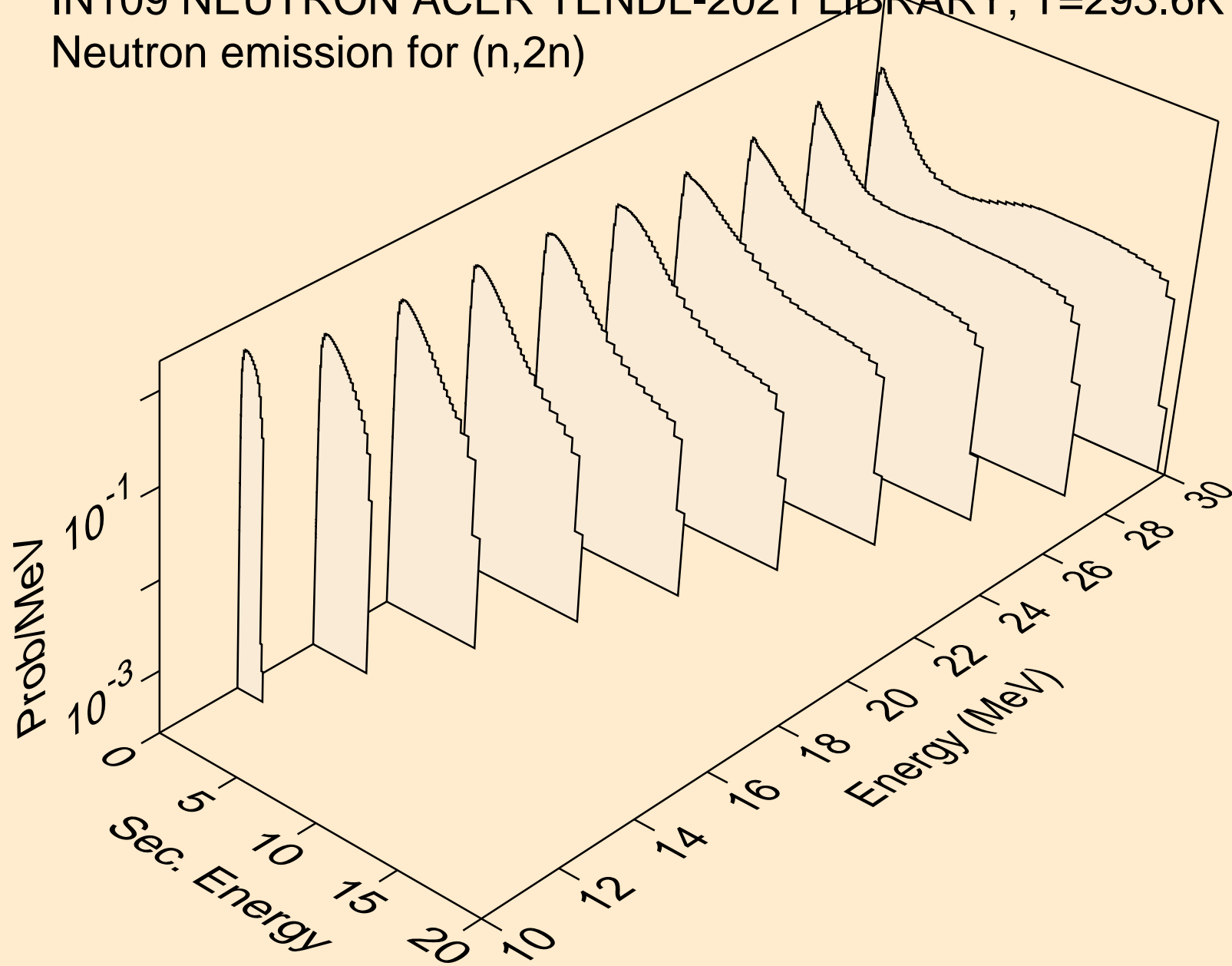
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



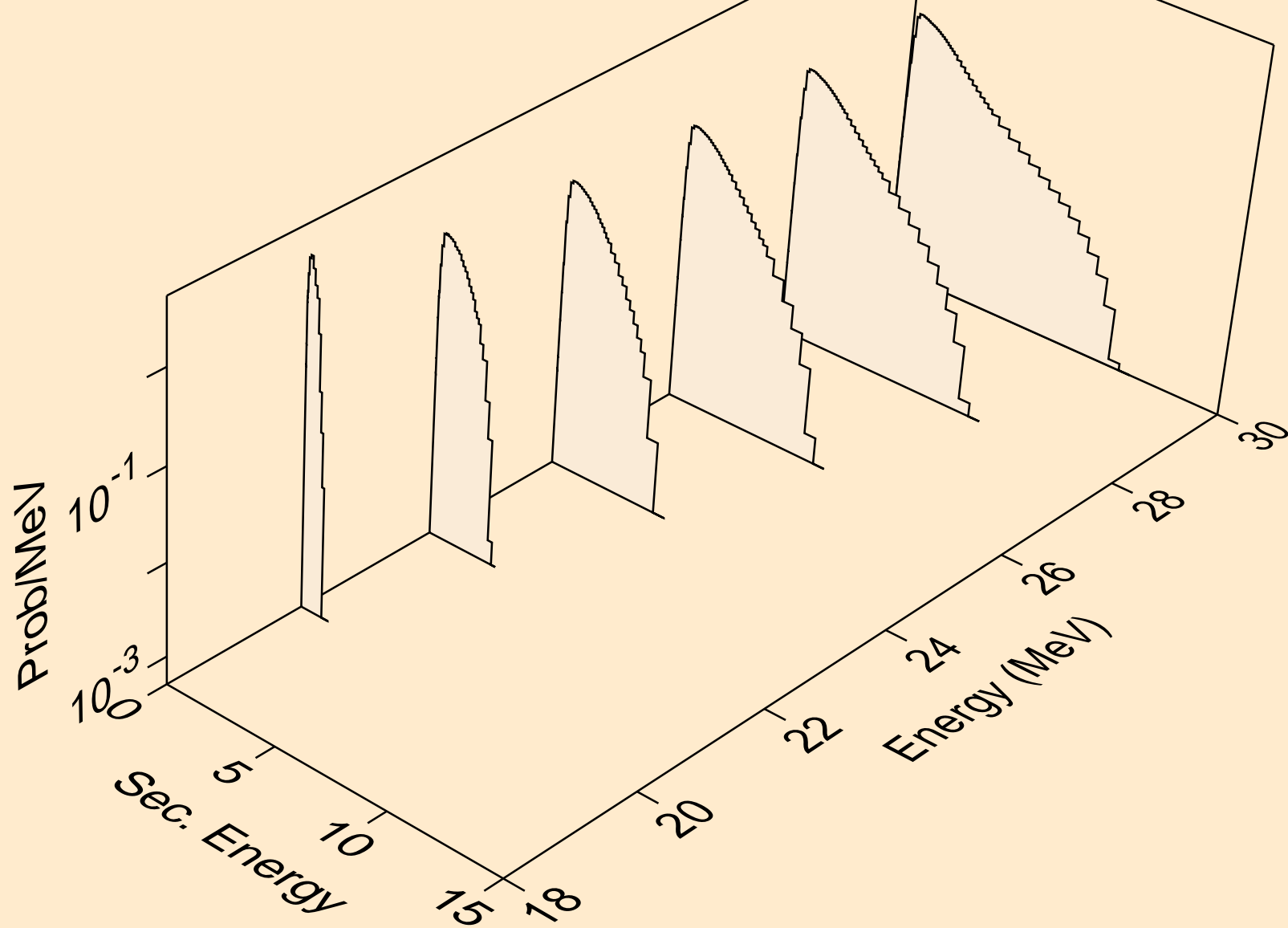
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

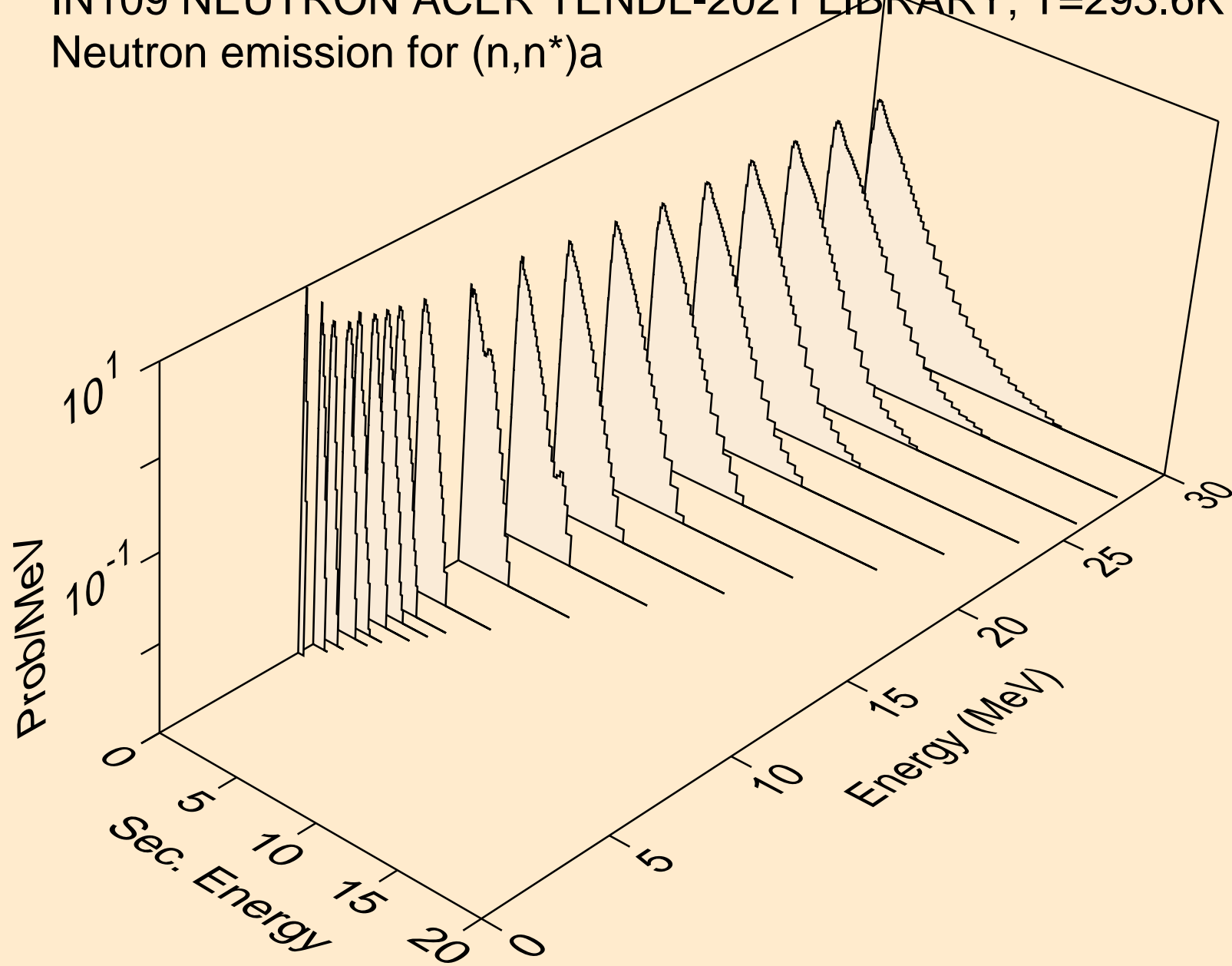


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)

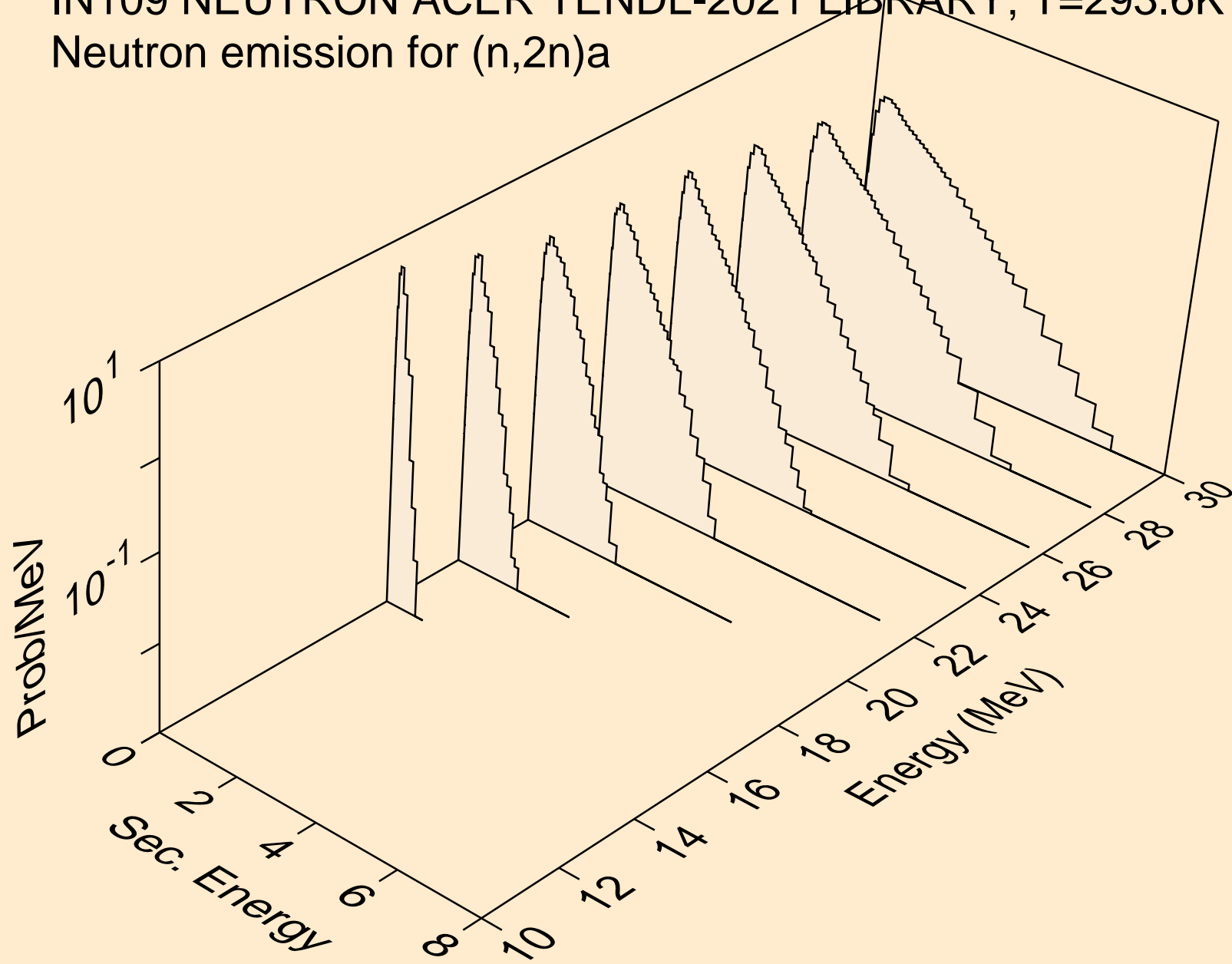




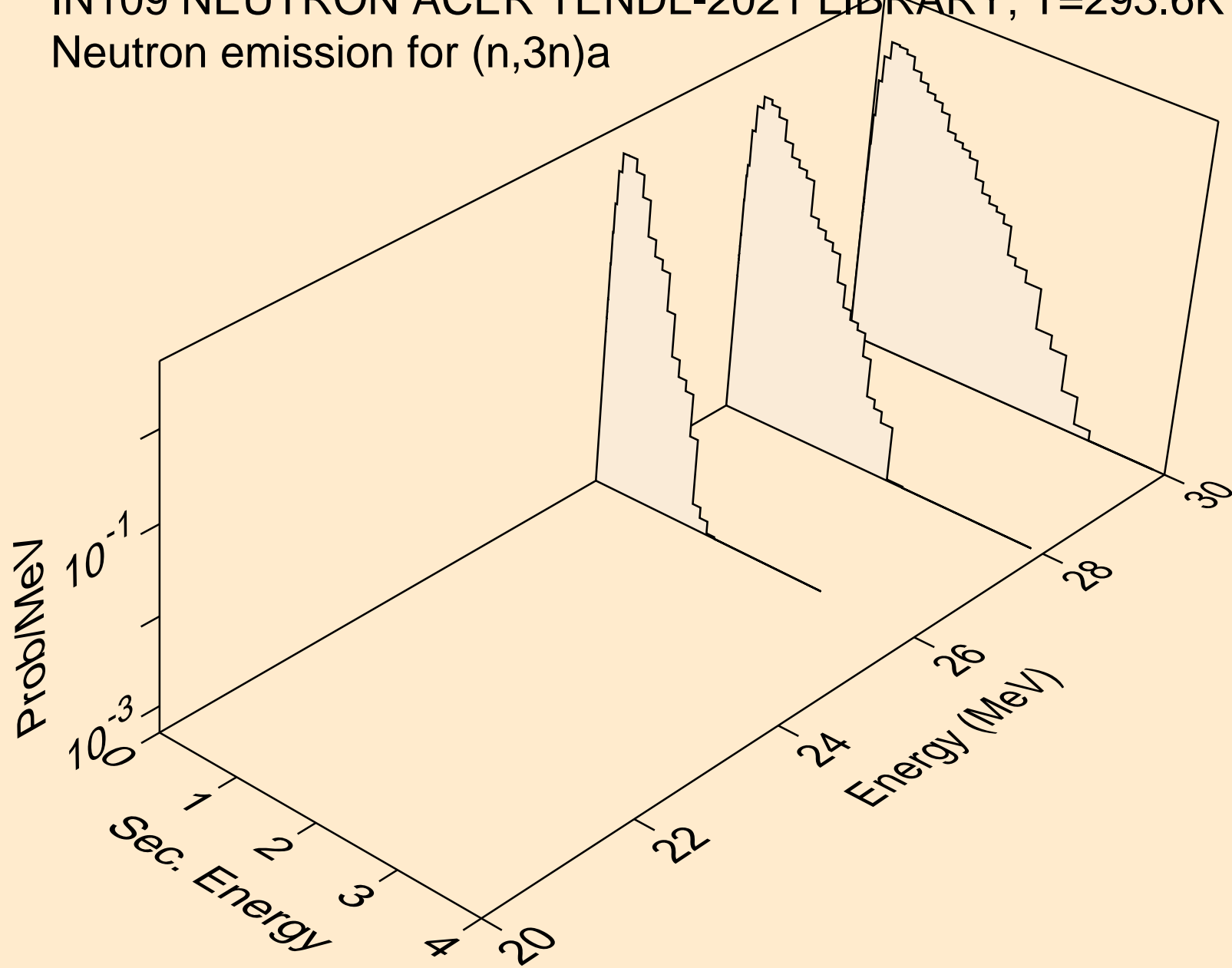
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



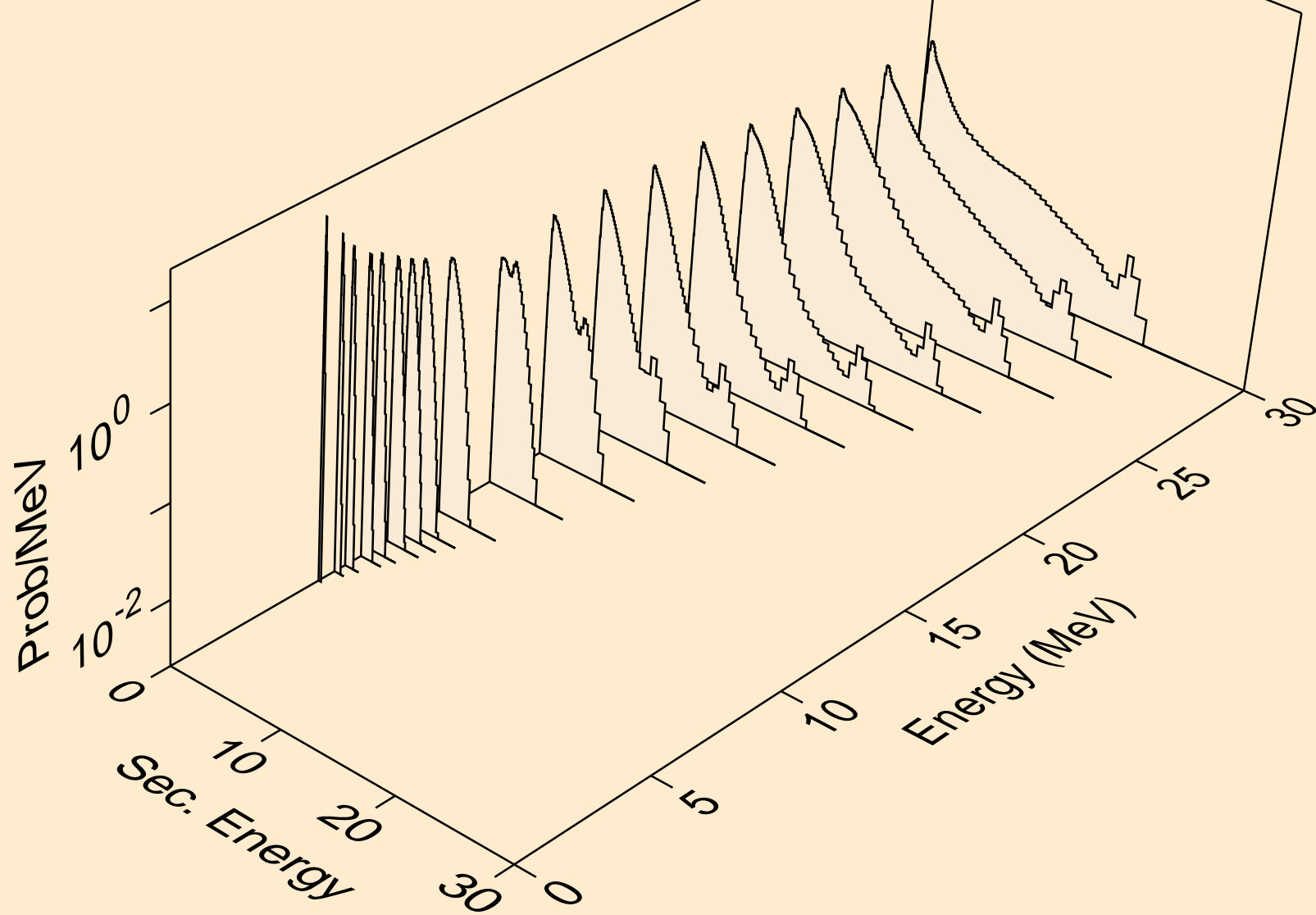
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



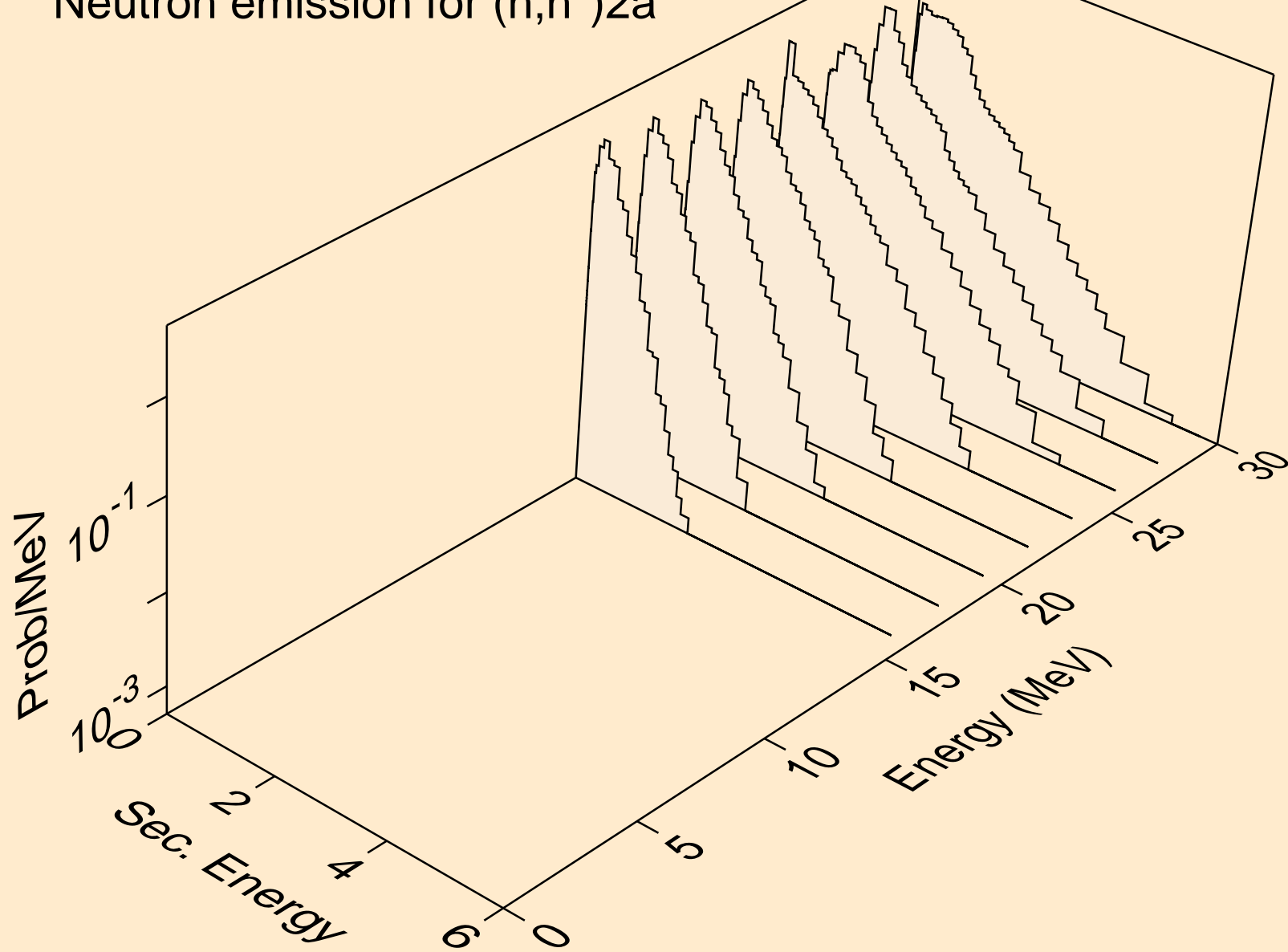
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



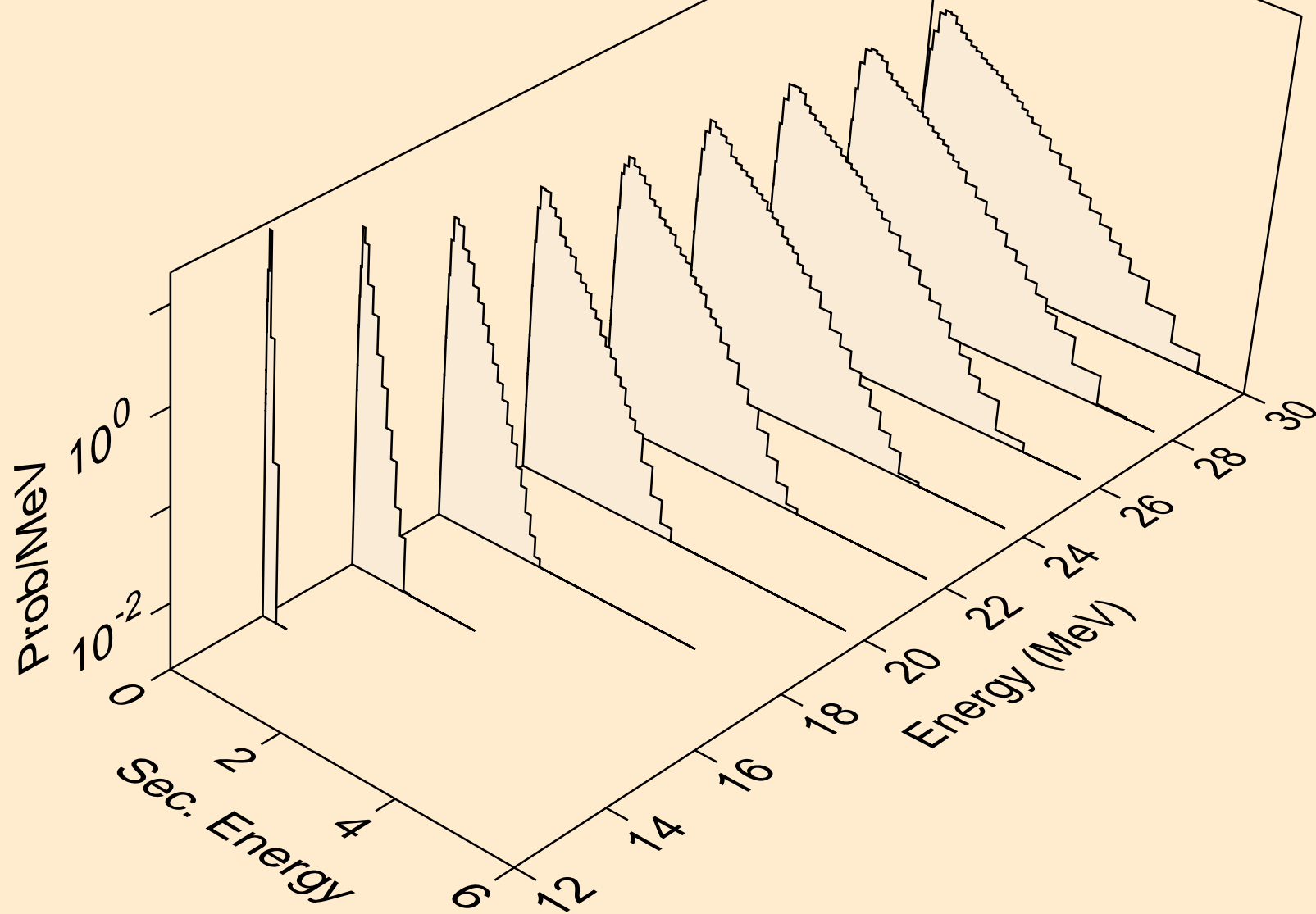
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



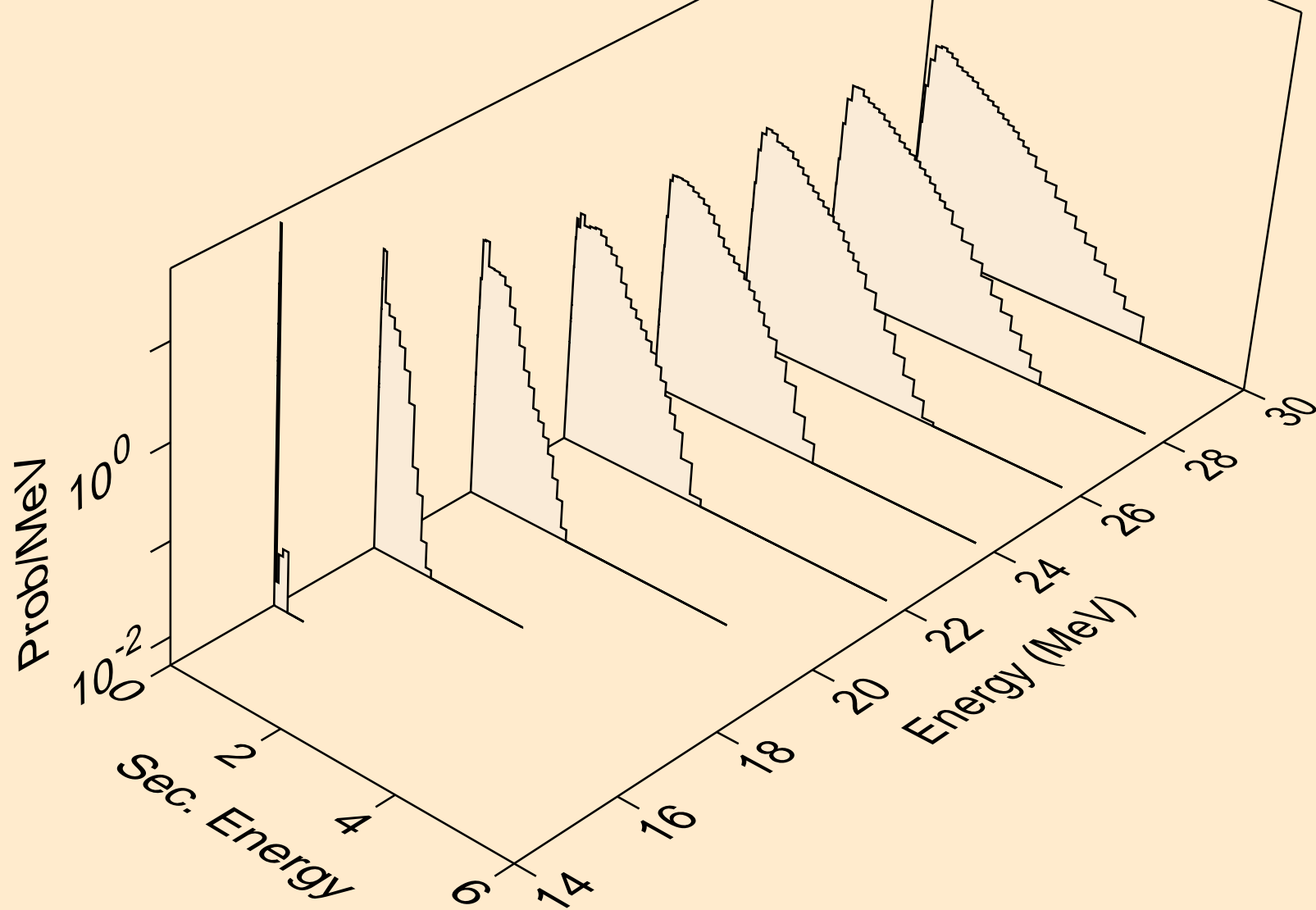
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Neutron emission for (n,n\*)2a



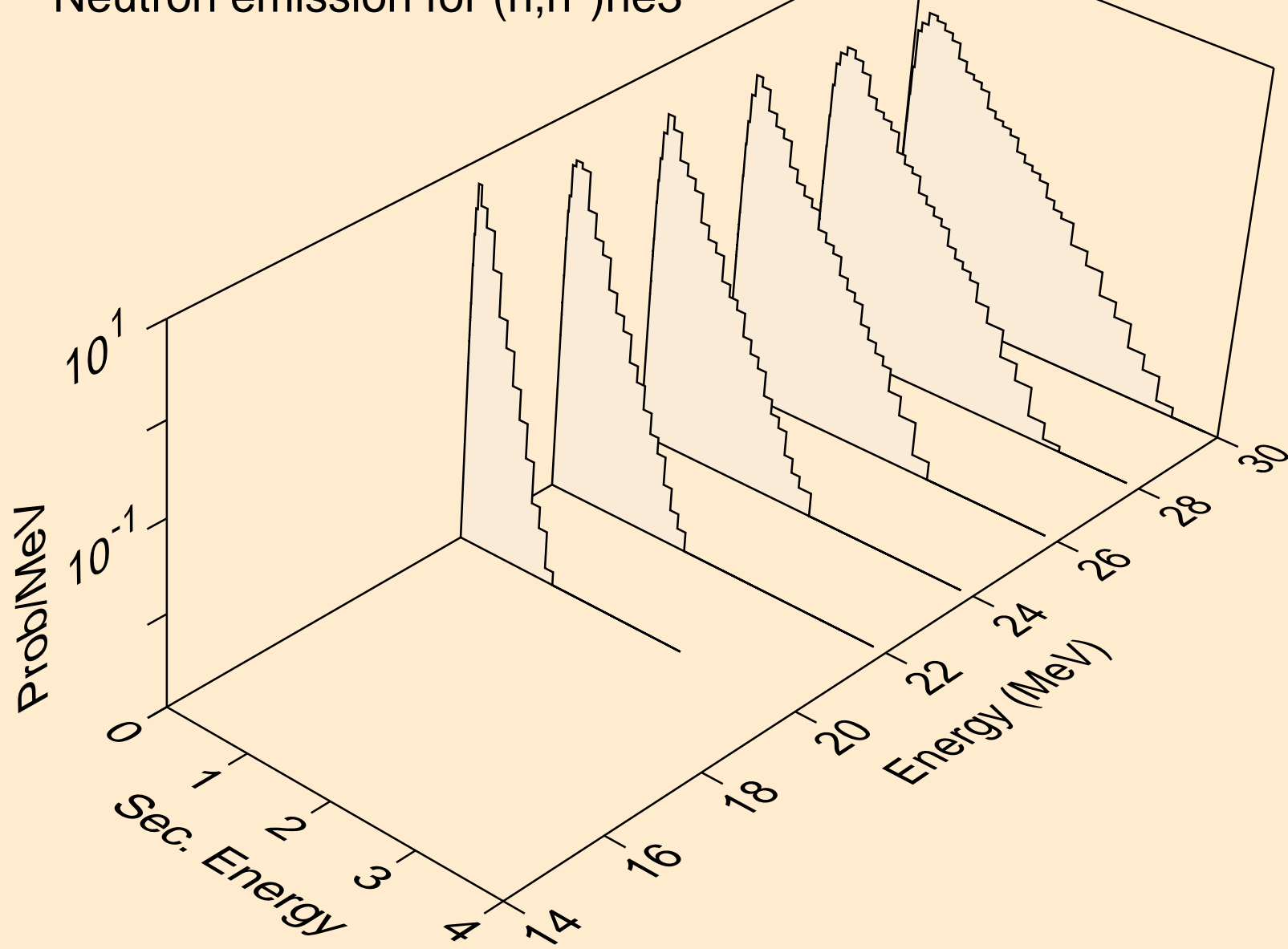
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

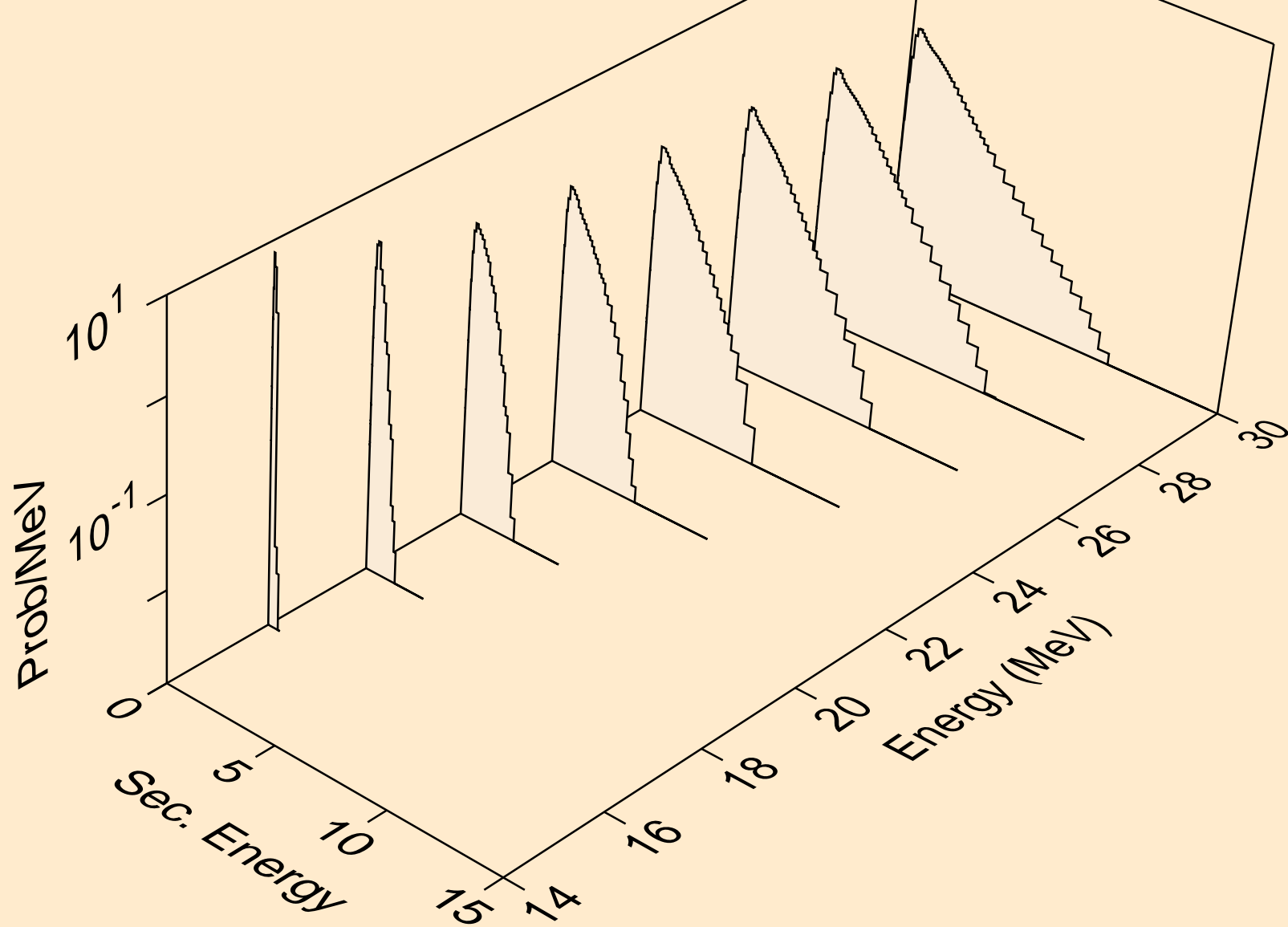


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

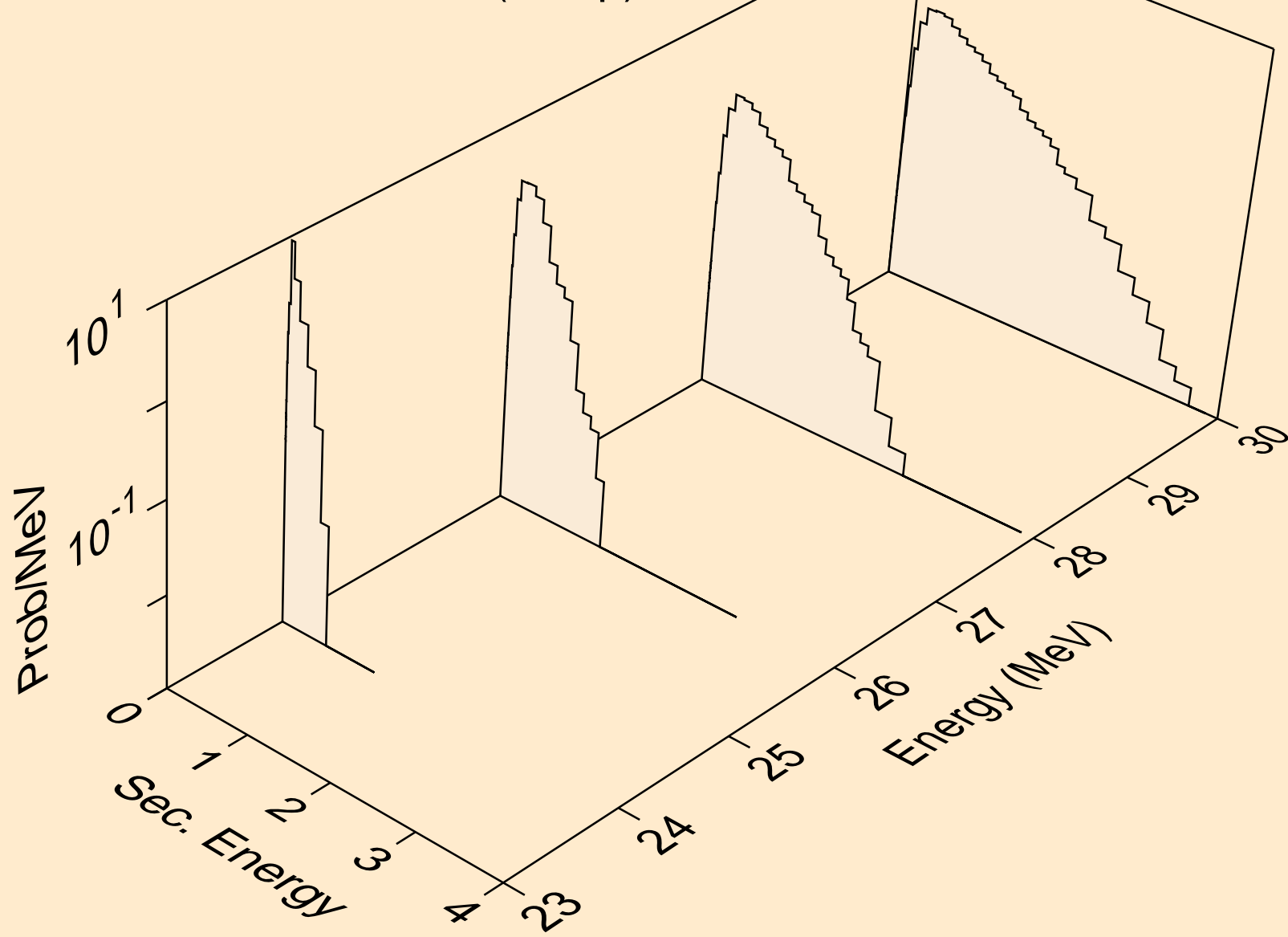




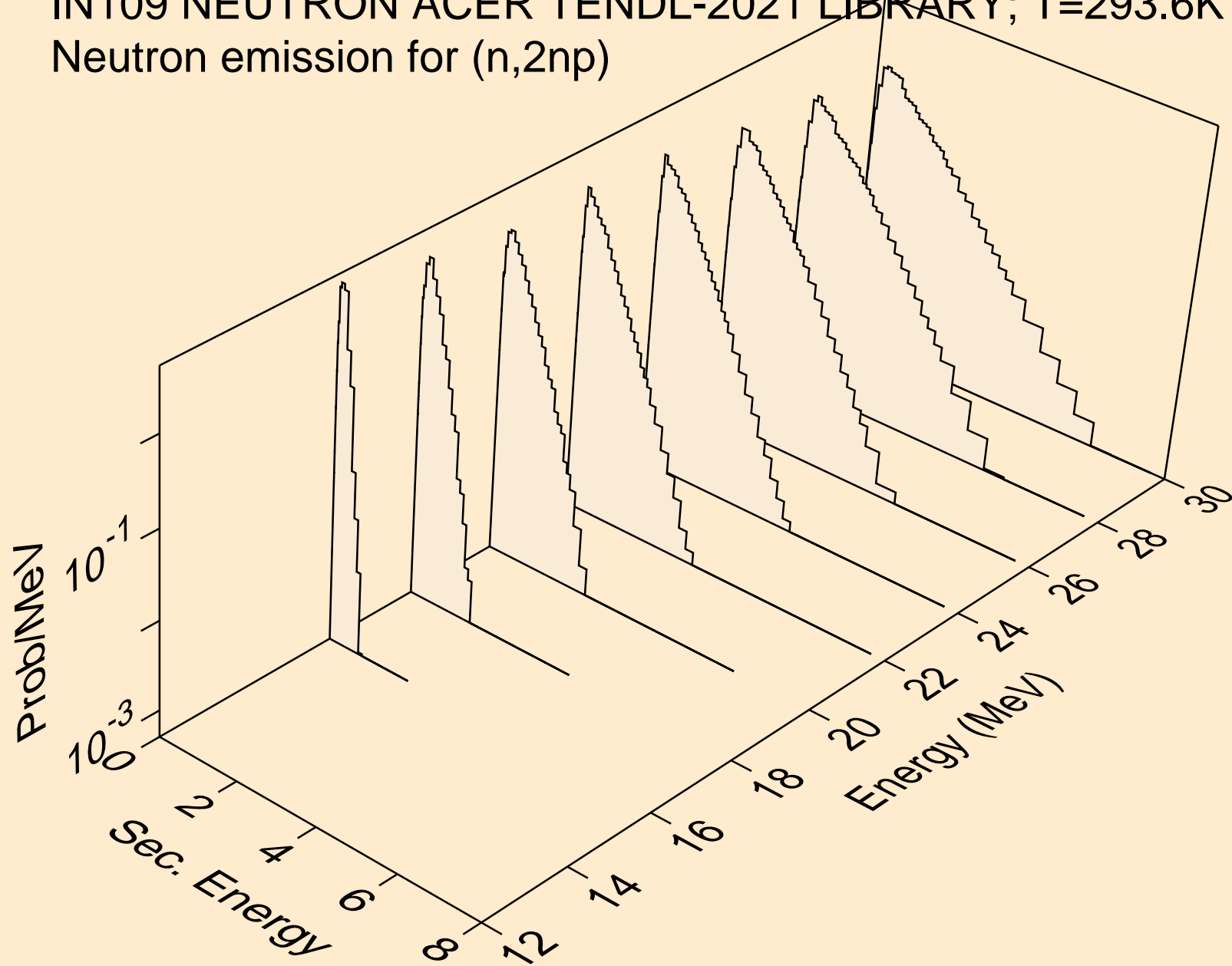
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



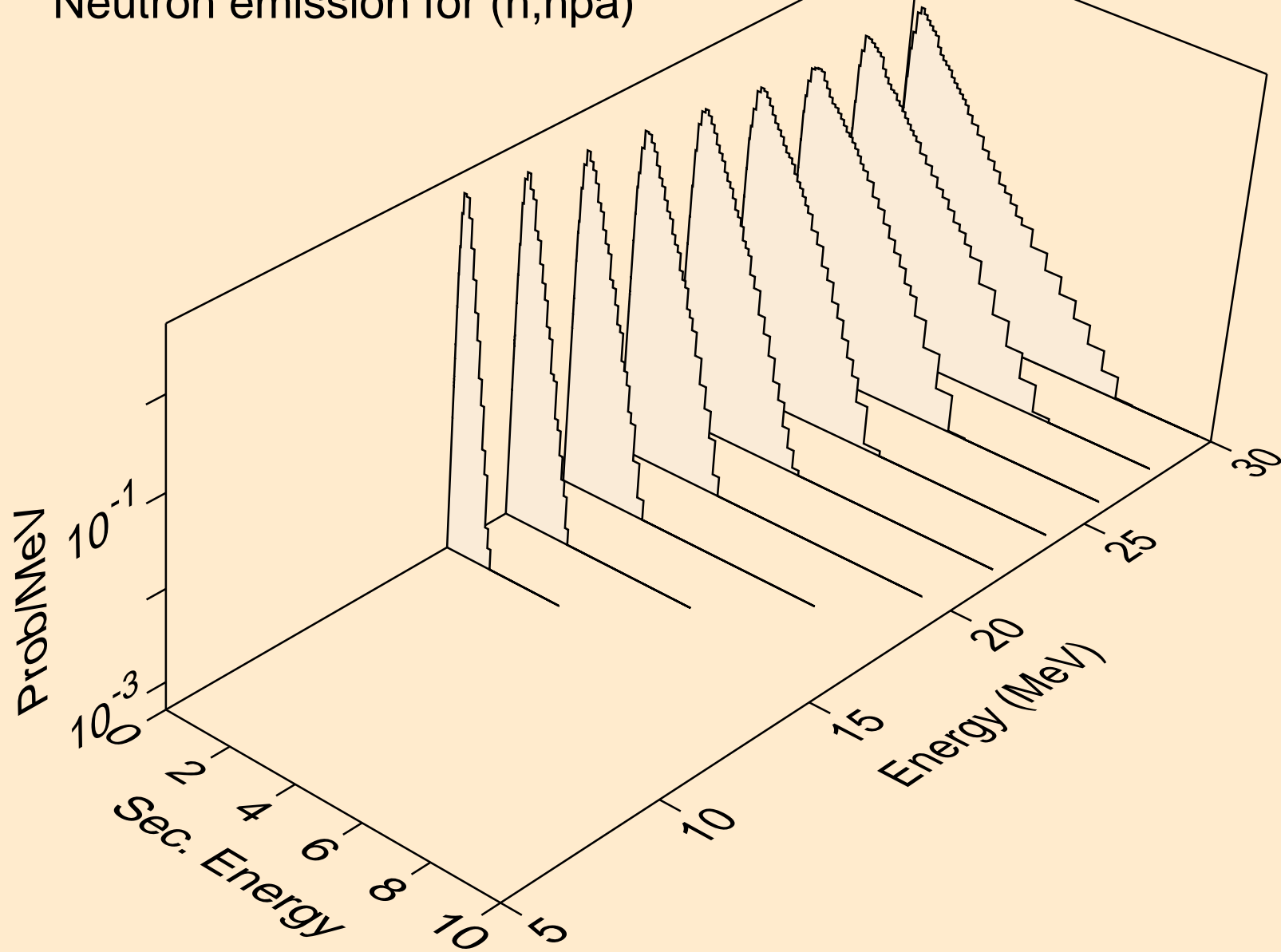
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Neutron emission for (n,3np)



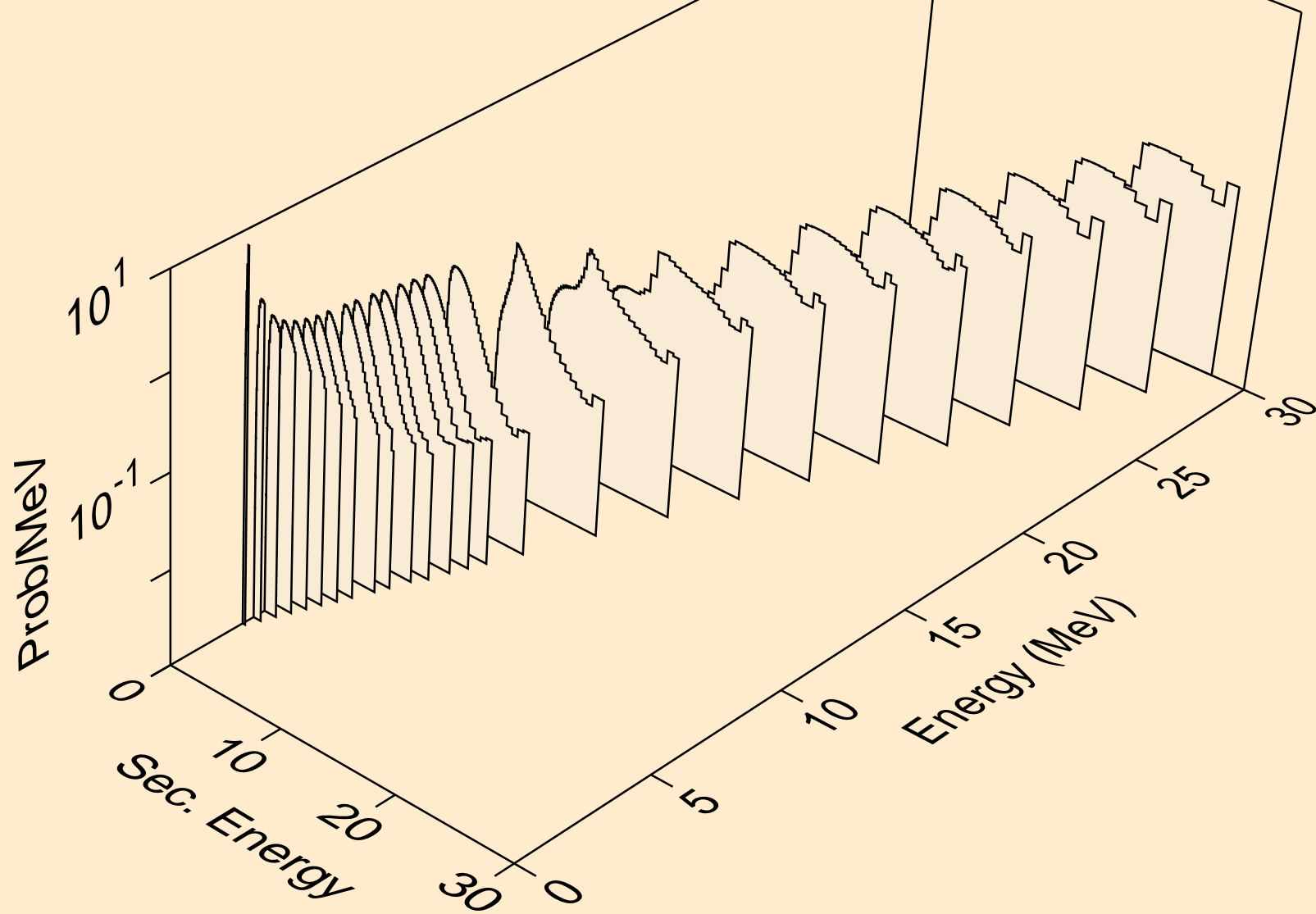
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Neutron emission for (n,2np)



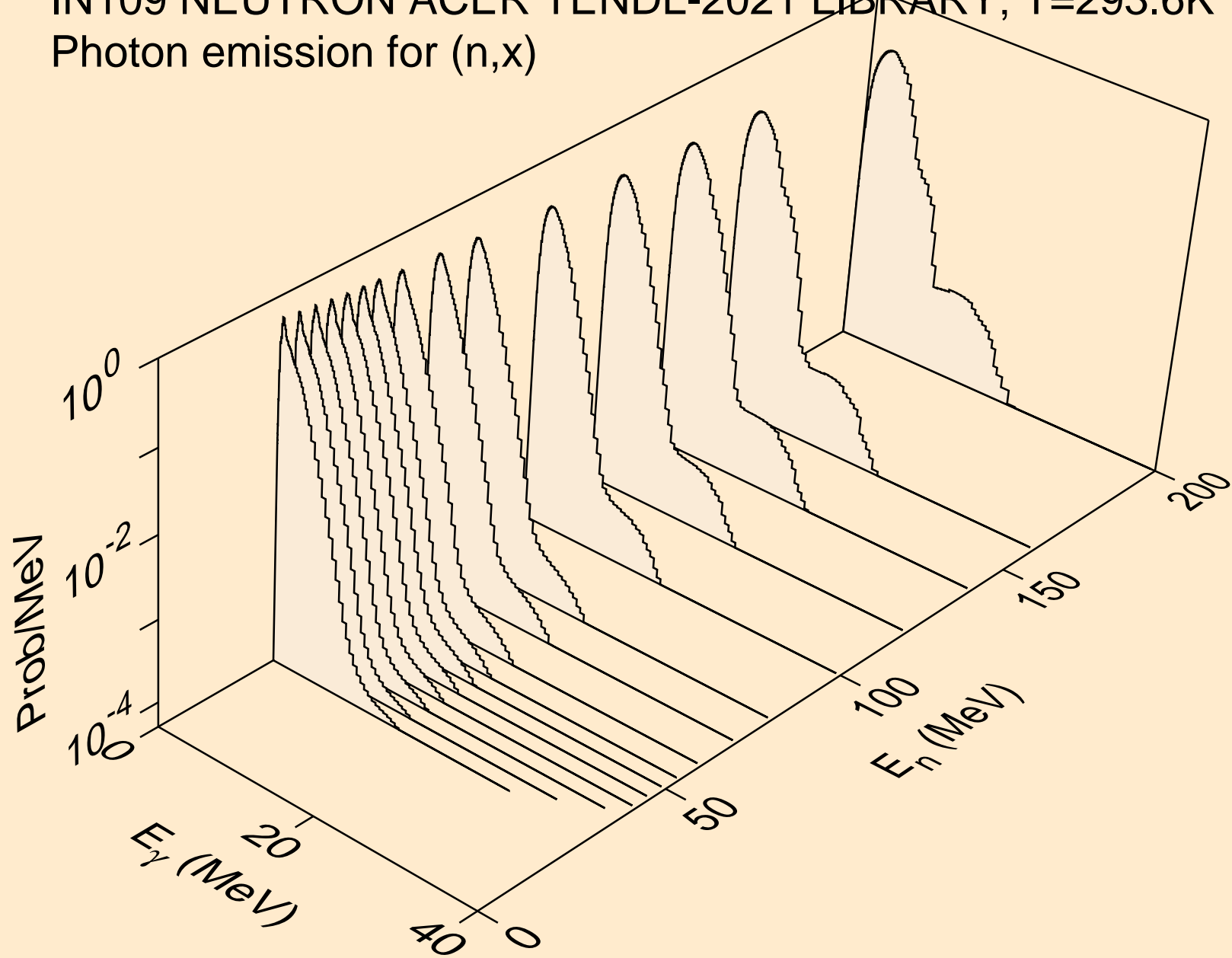
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Neutron emission for (n,npa)



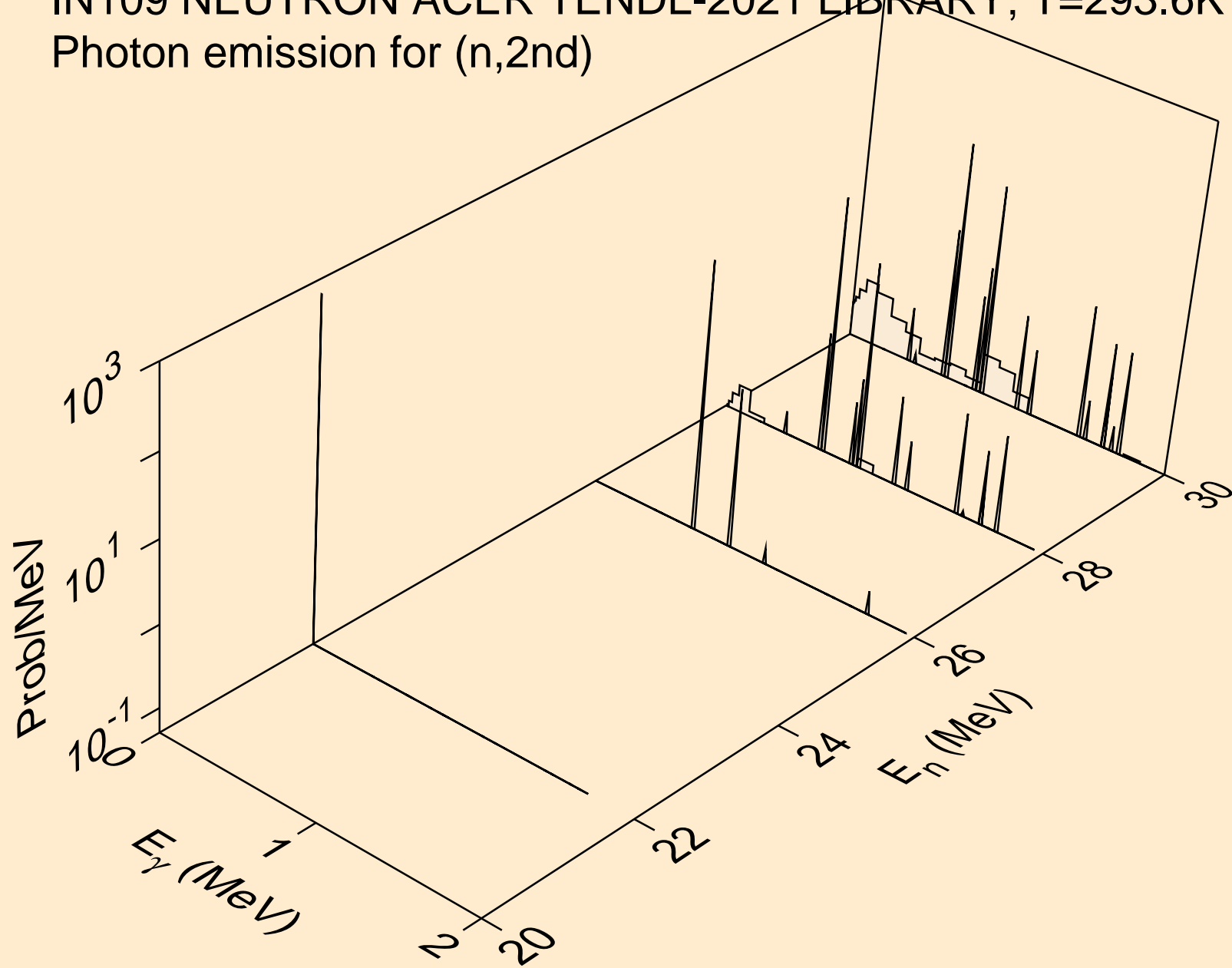
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Neutron emission for (n,n\*c)



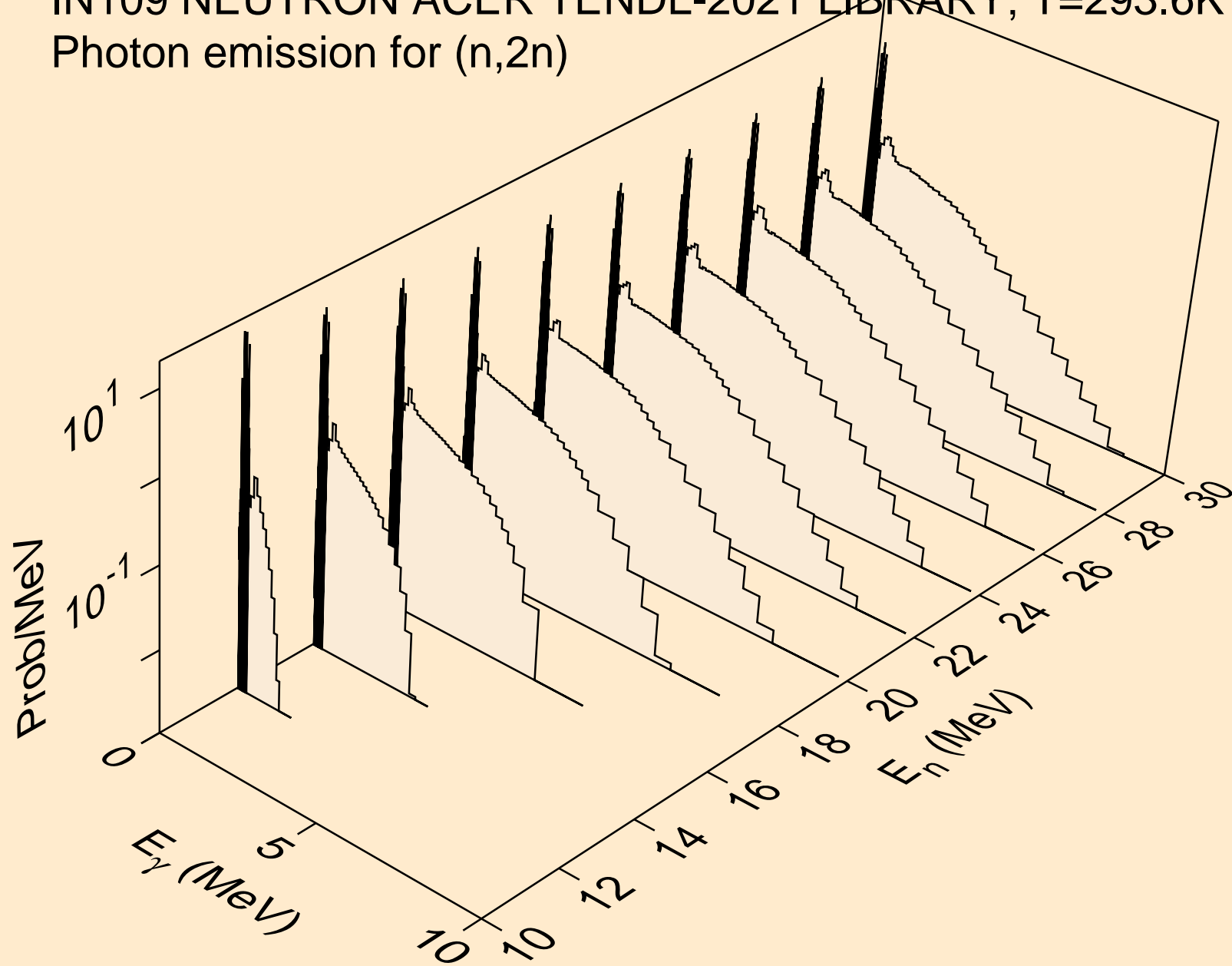
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)

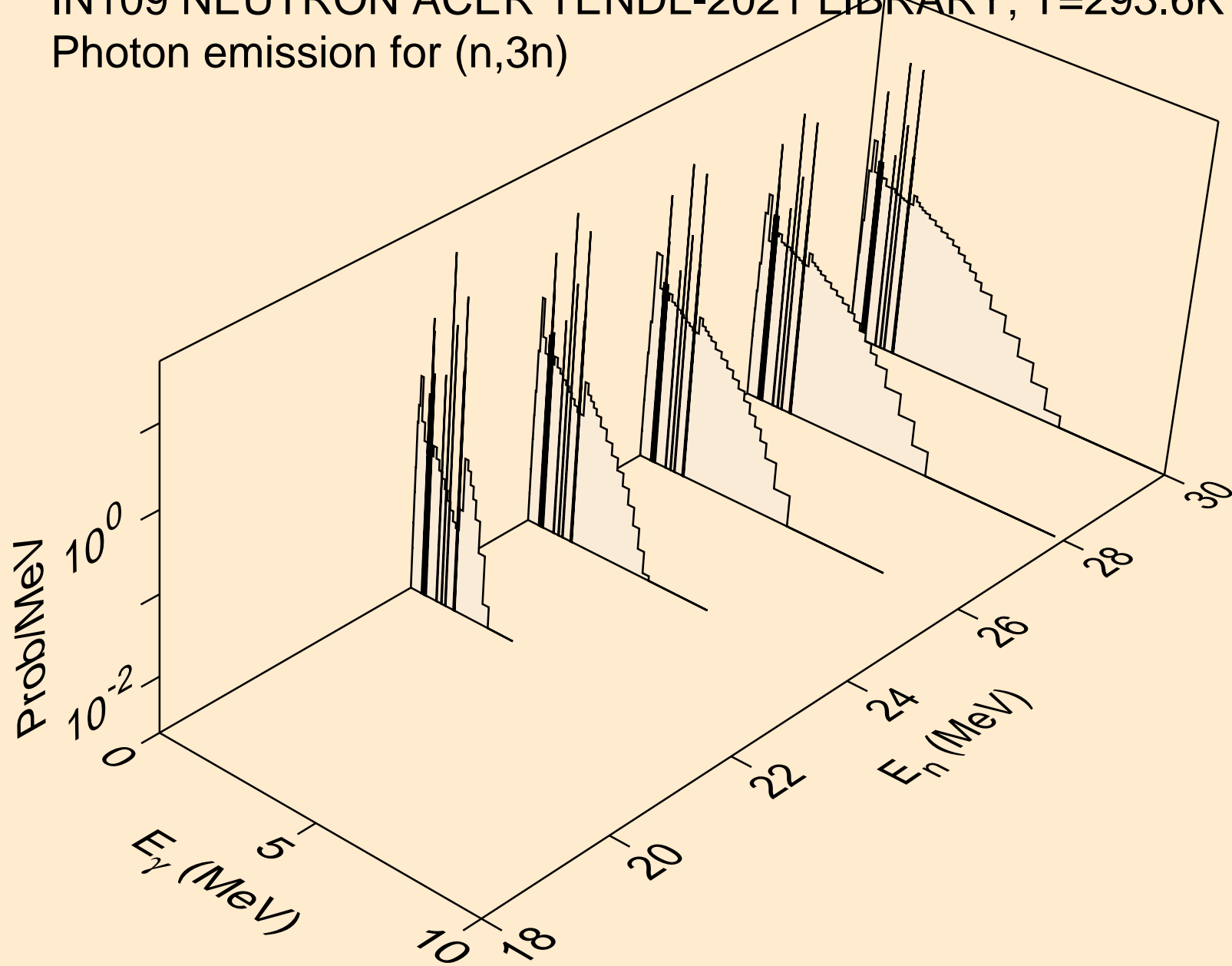


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Photon emission for (n,2n)

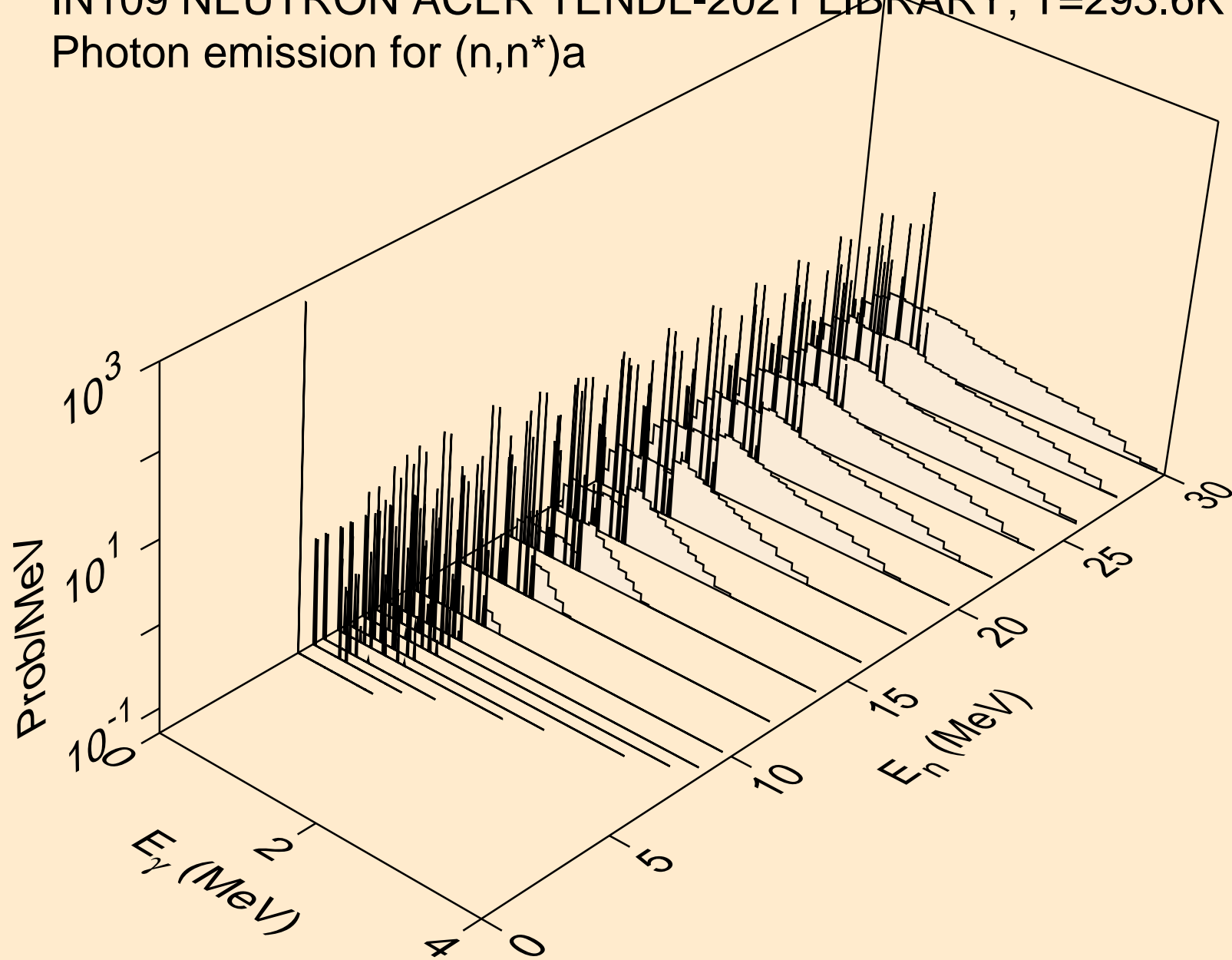




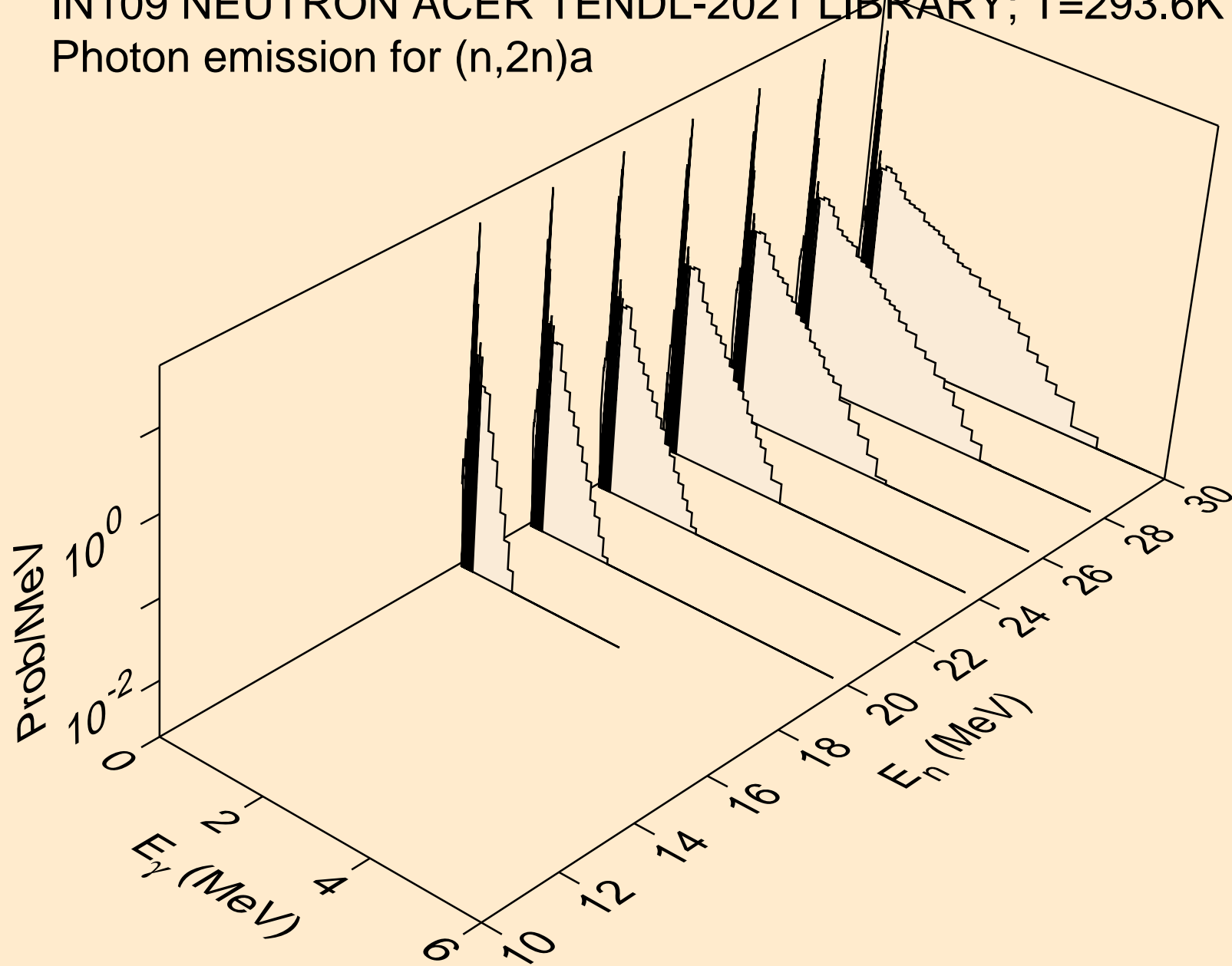
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Photon emission for (n,3n)



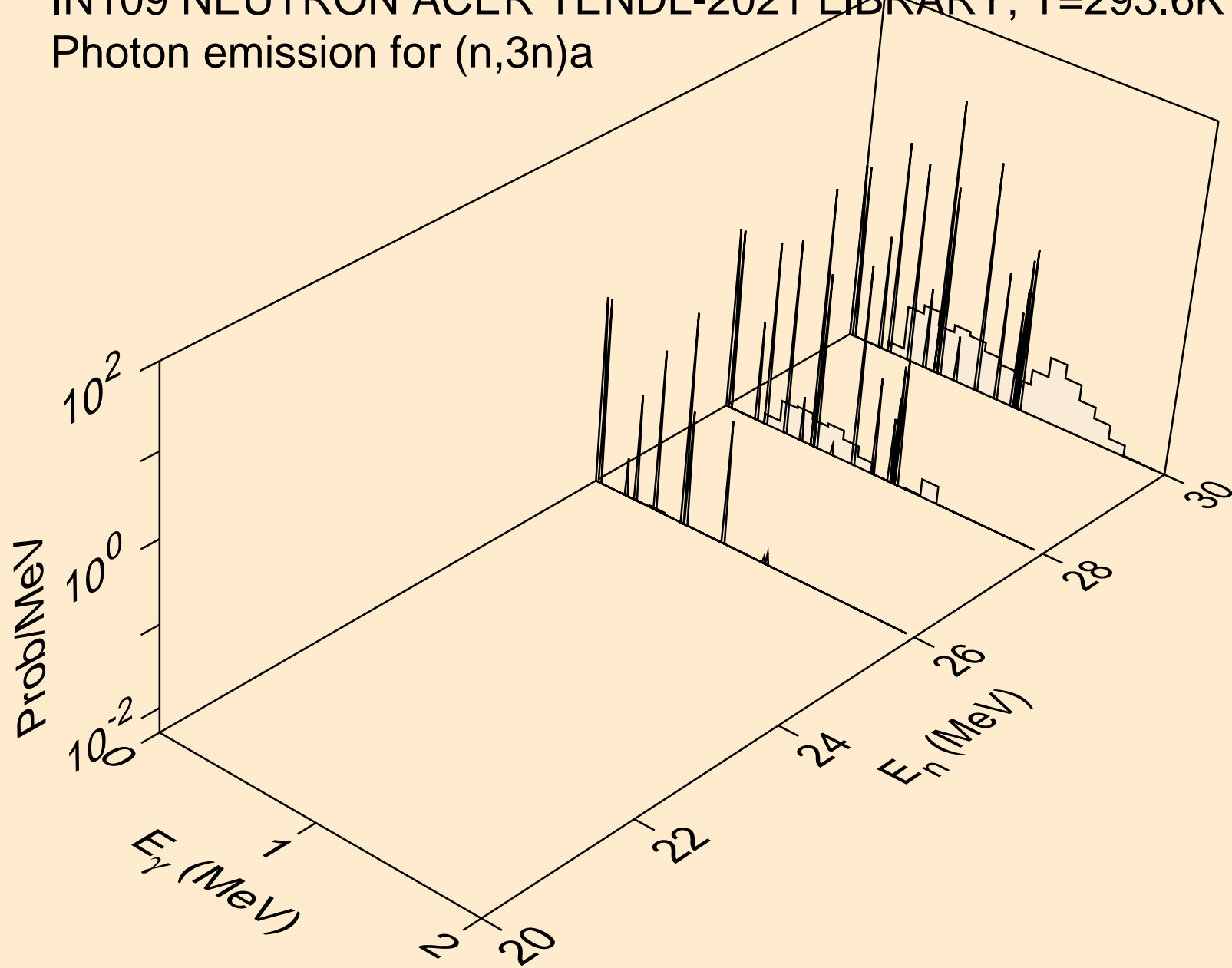
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Photon emission for (n,n\*)a



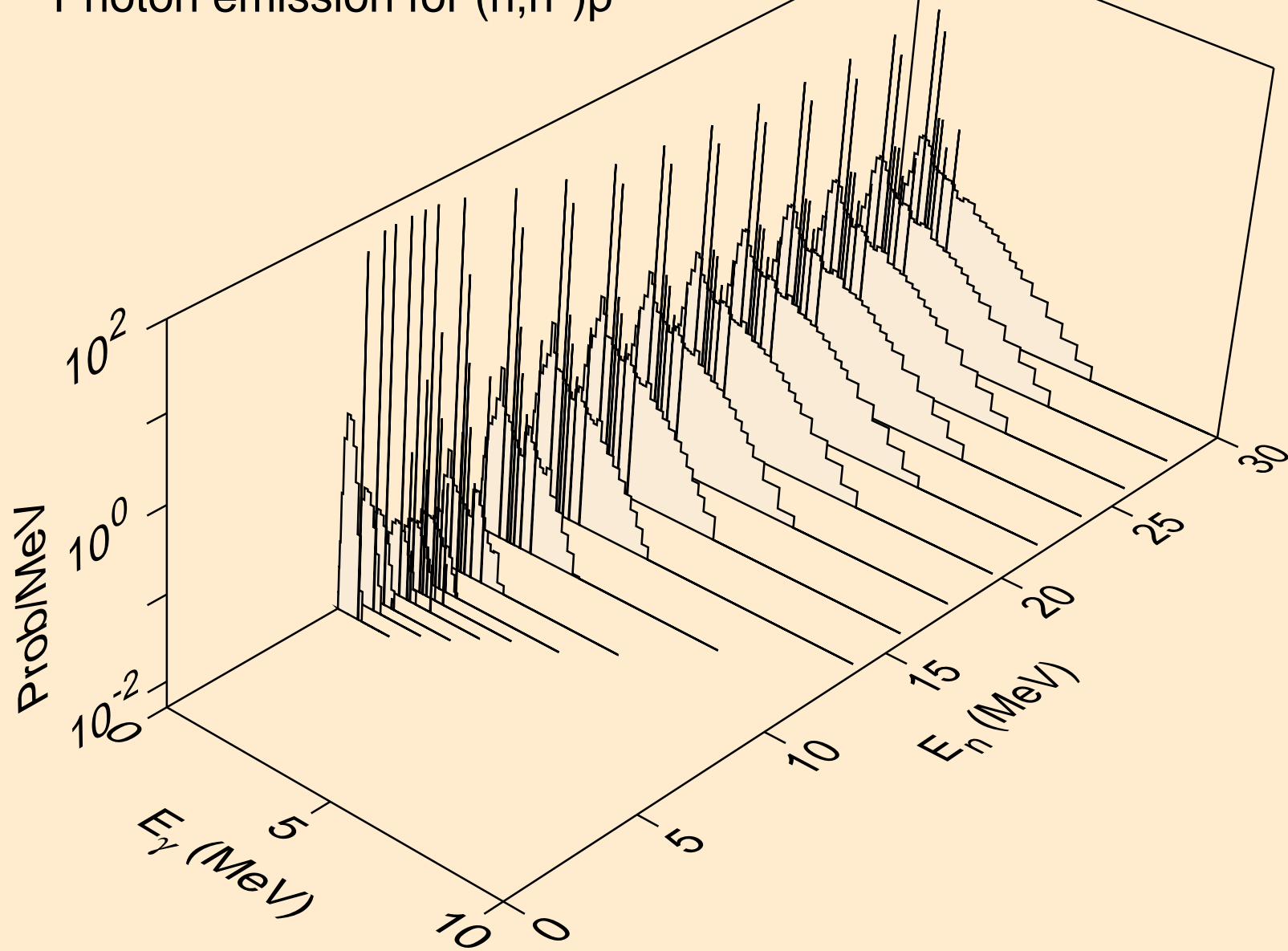
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Photon emission for (n,2n)a



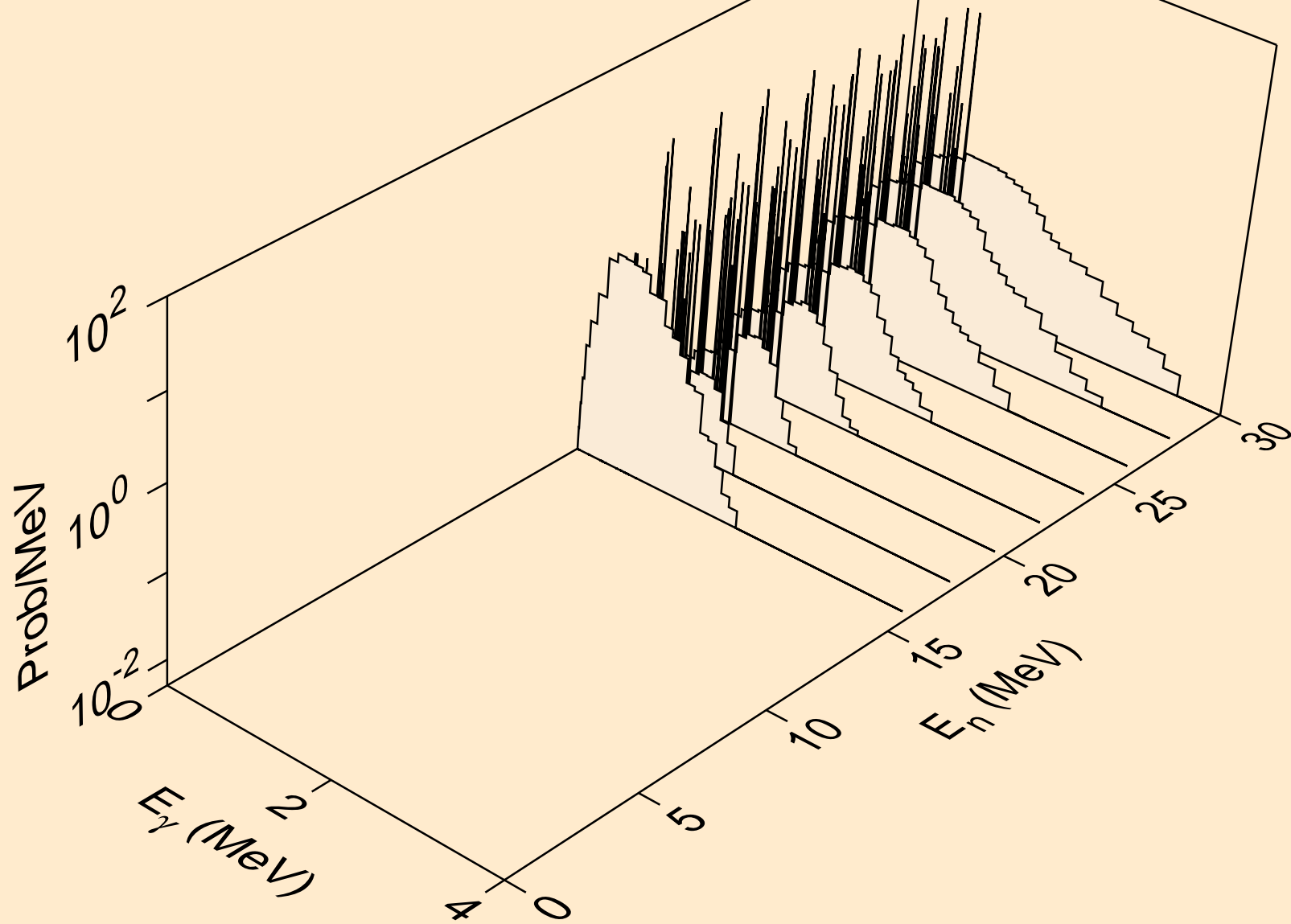
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Photon emission for (n,3n)a



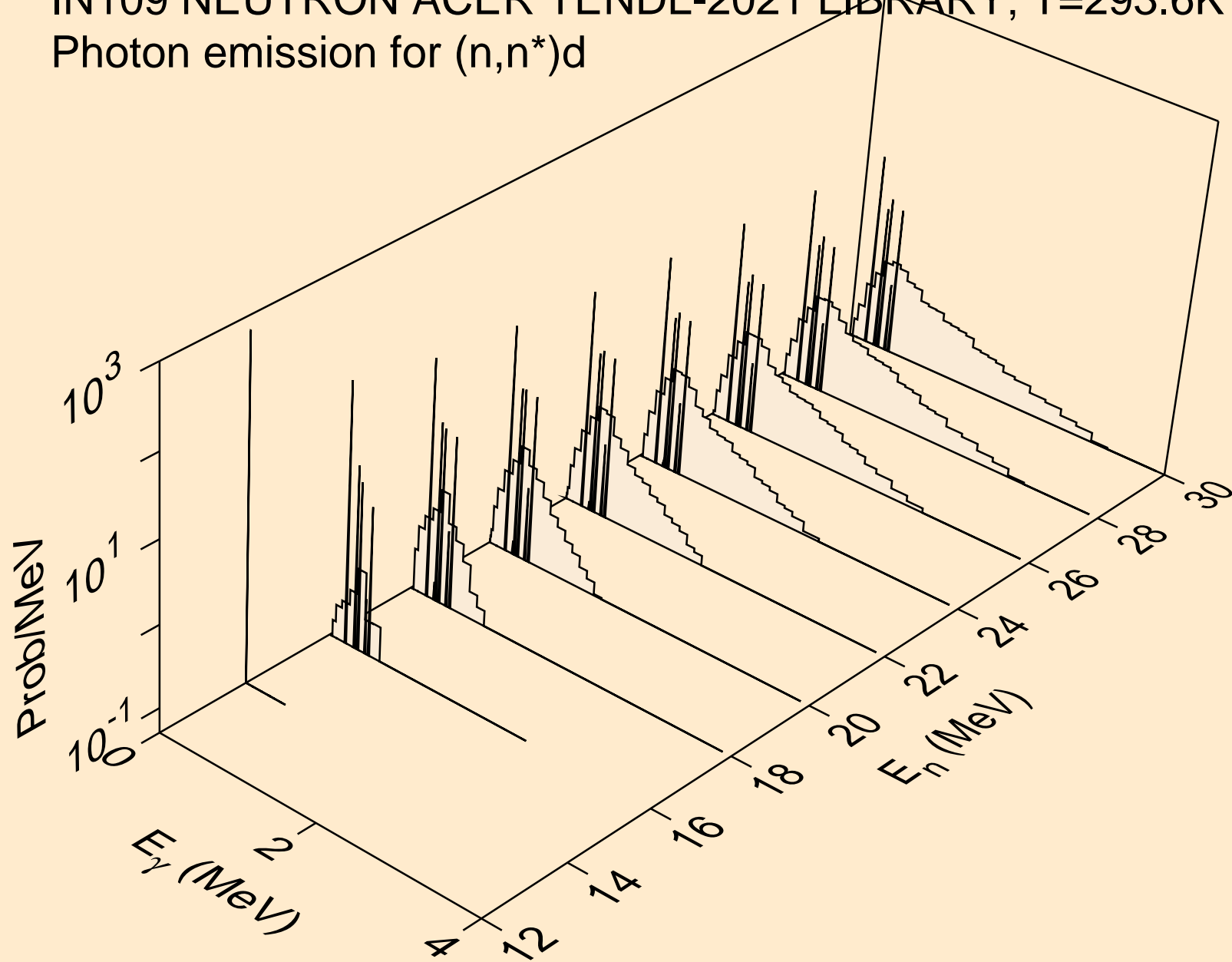
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Photon emission for (n,n\*)p



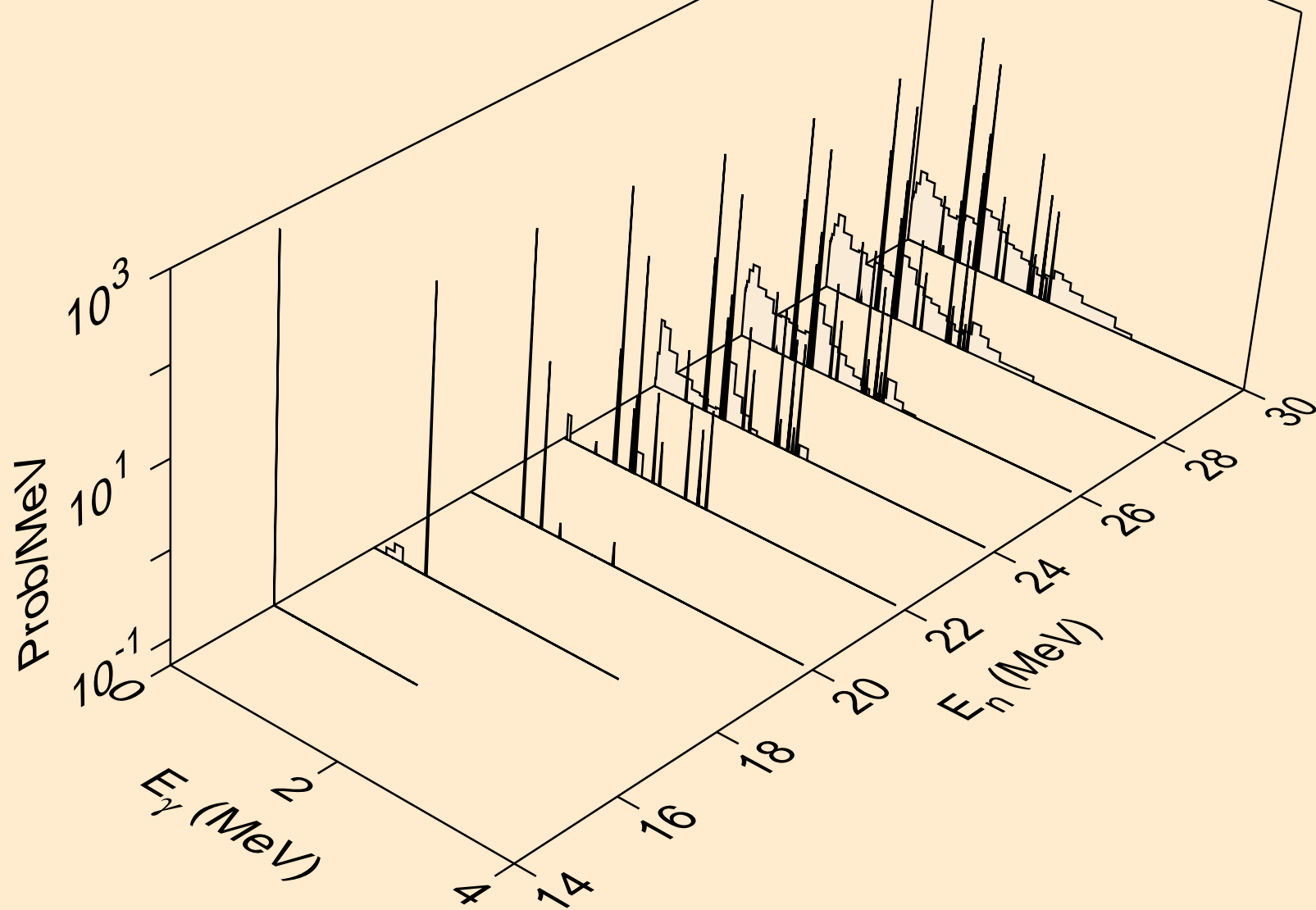
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

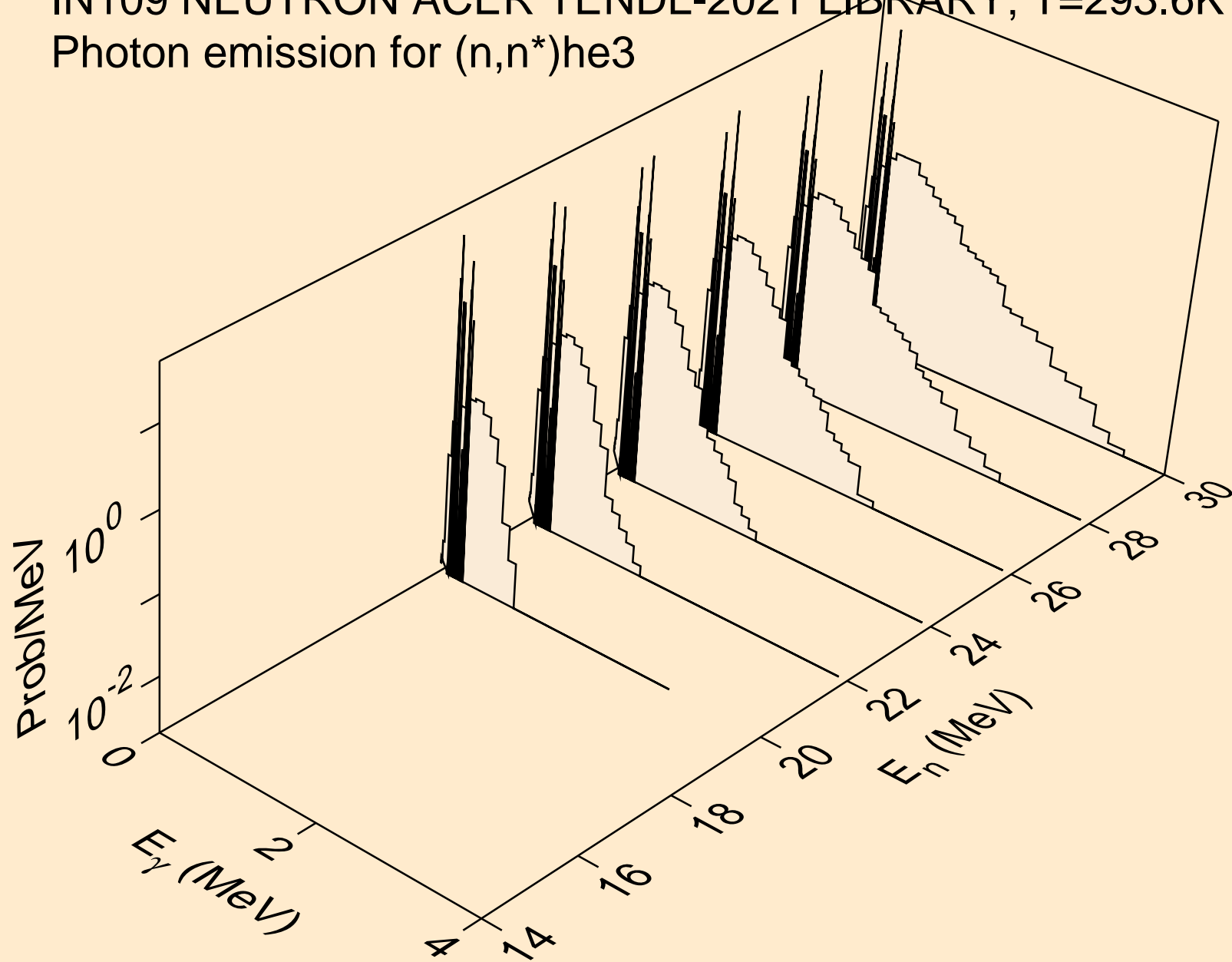


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

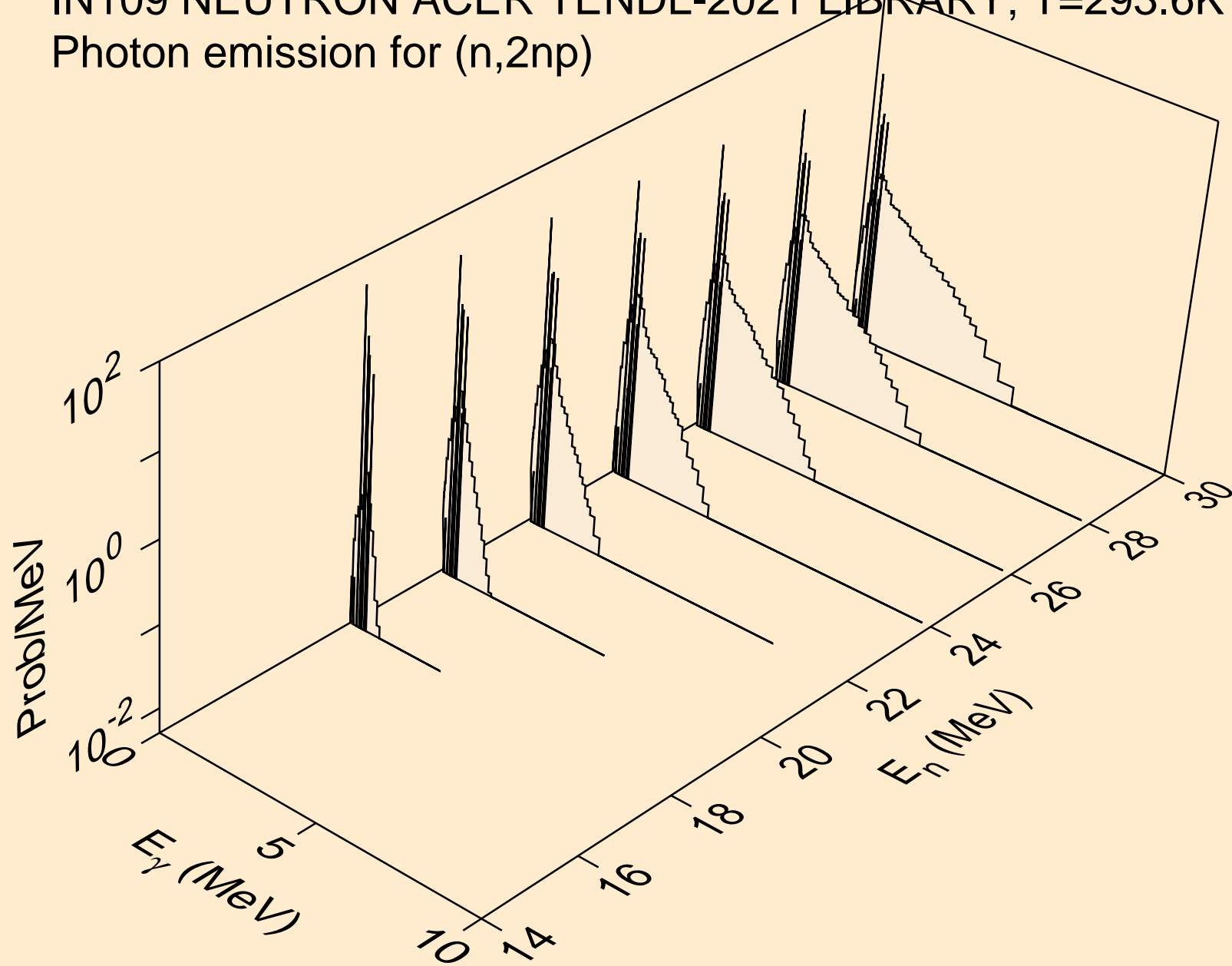




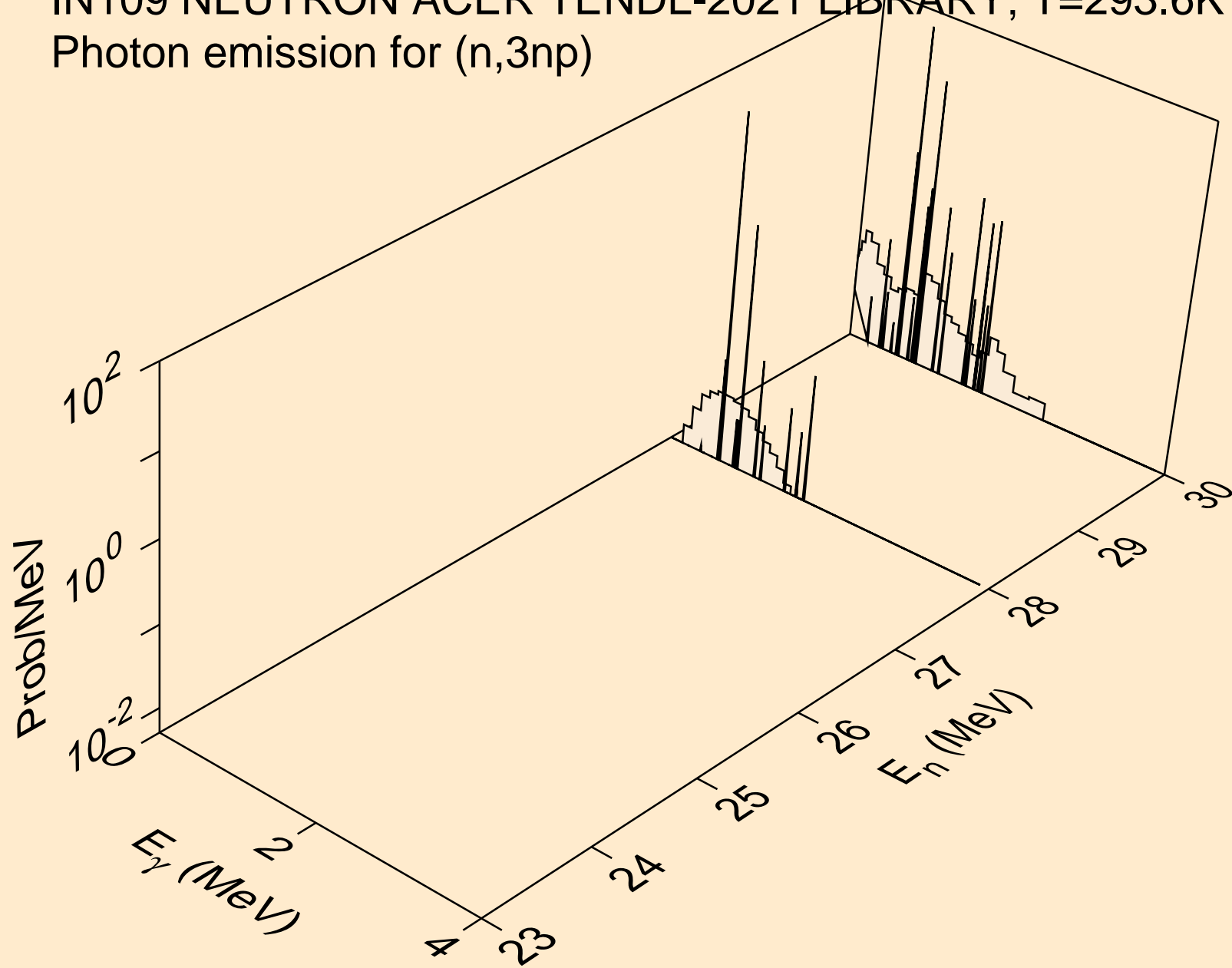
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



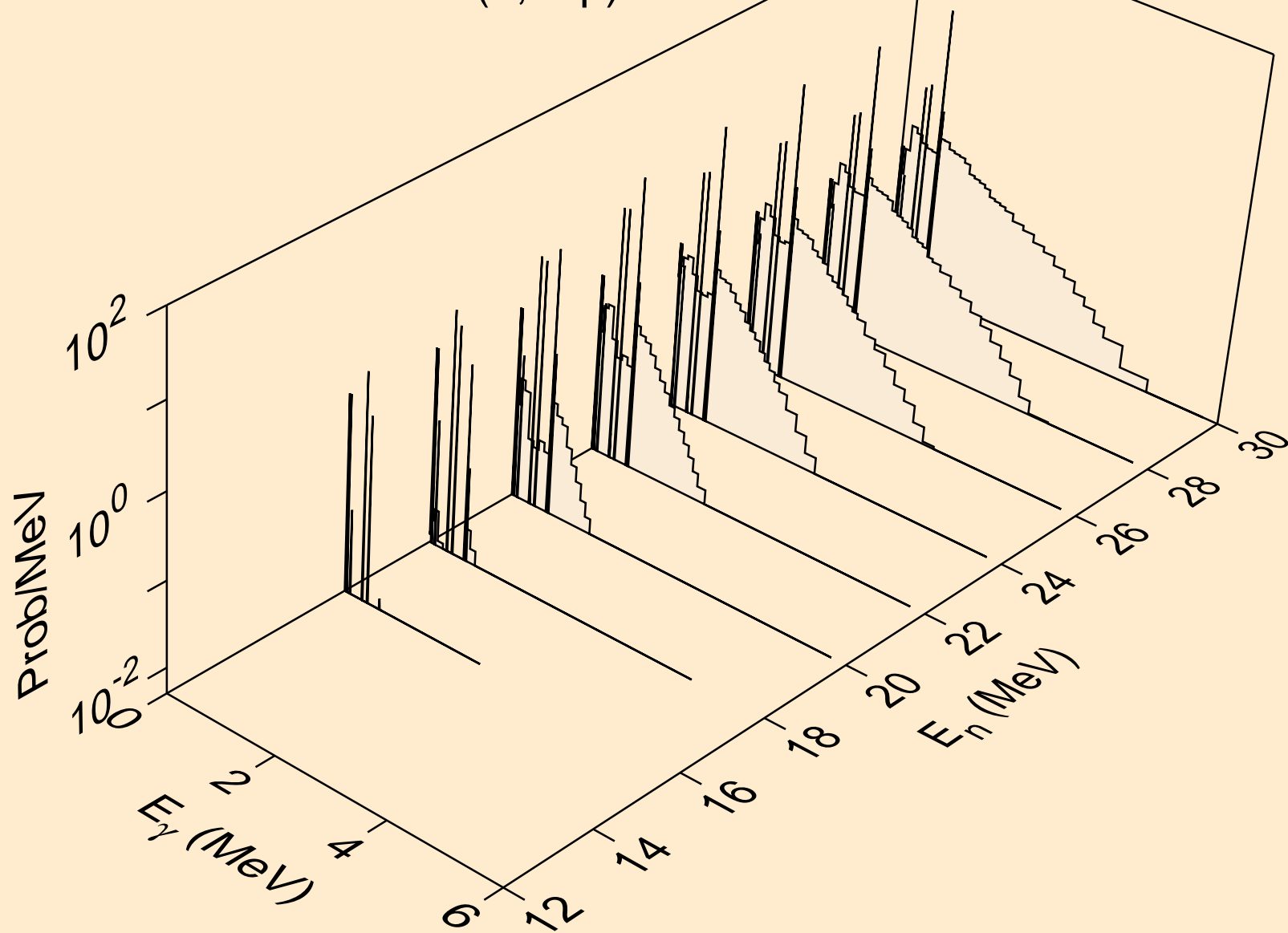
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Photon emission for (n,2np)



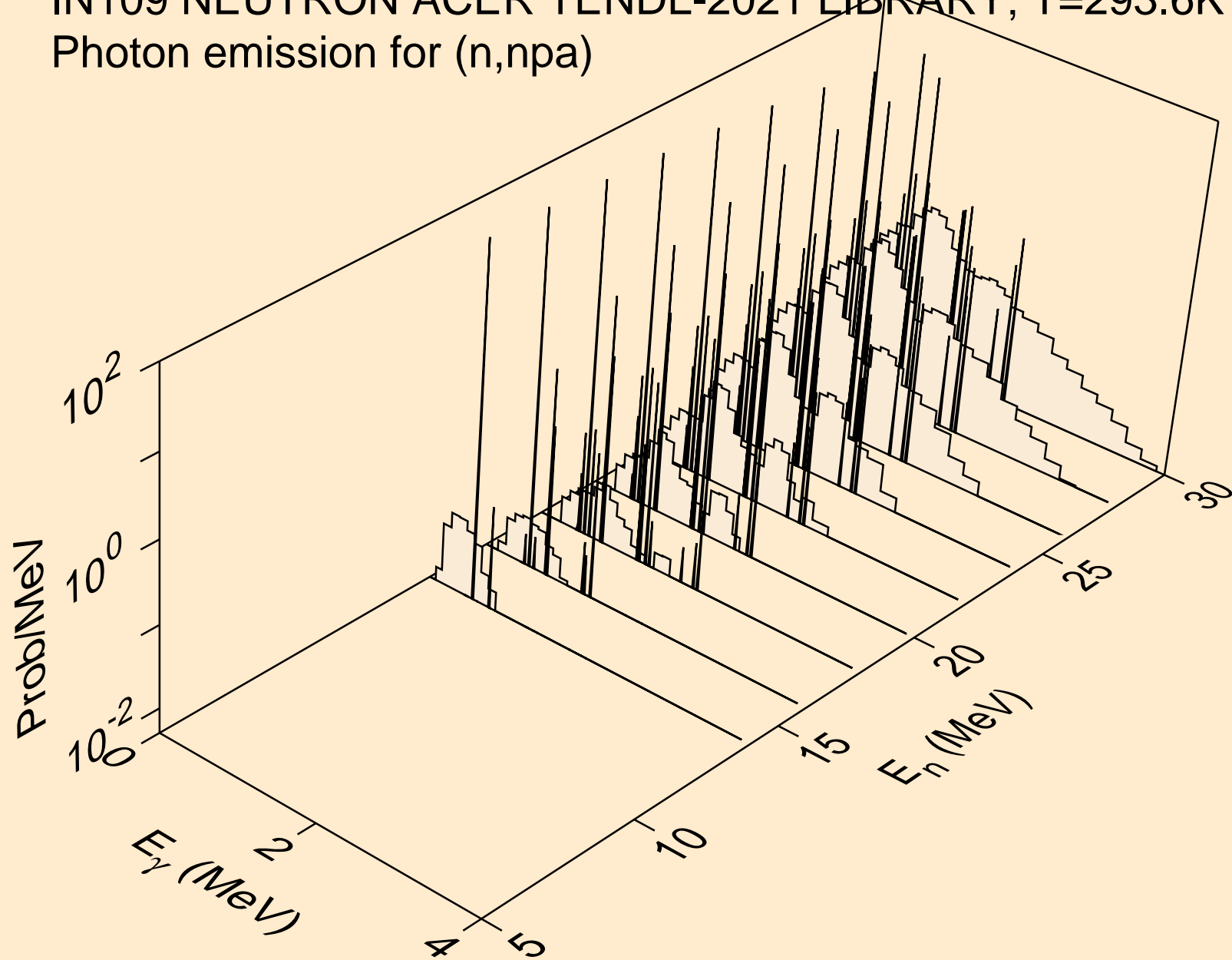
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Photon emission for (n,3np)



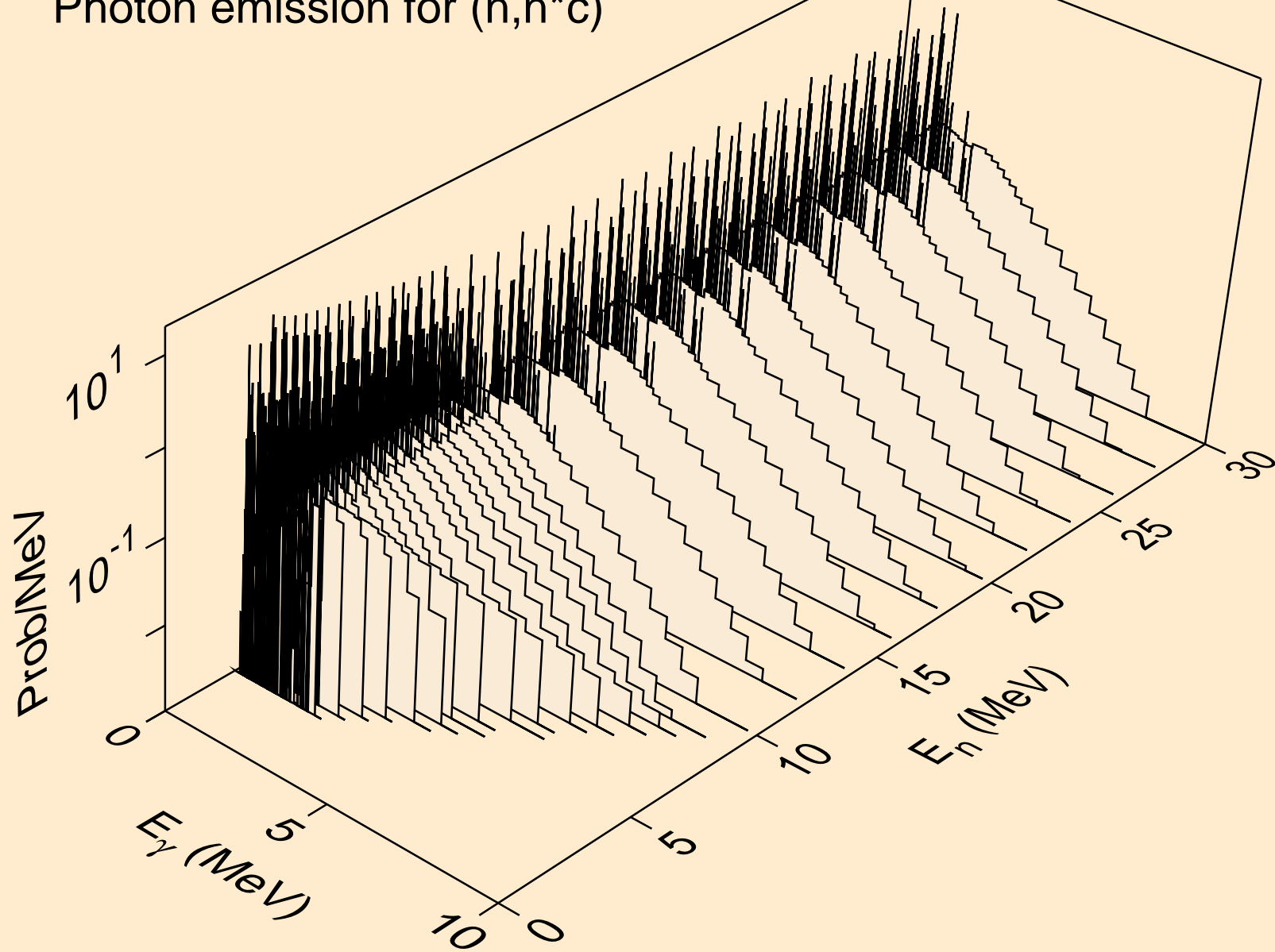
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Photon emission for (n,2np)



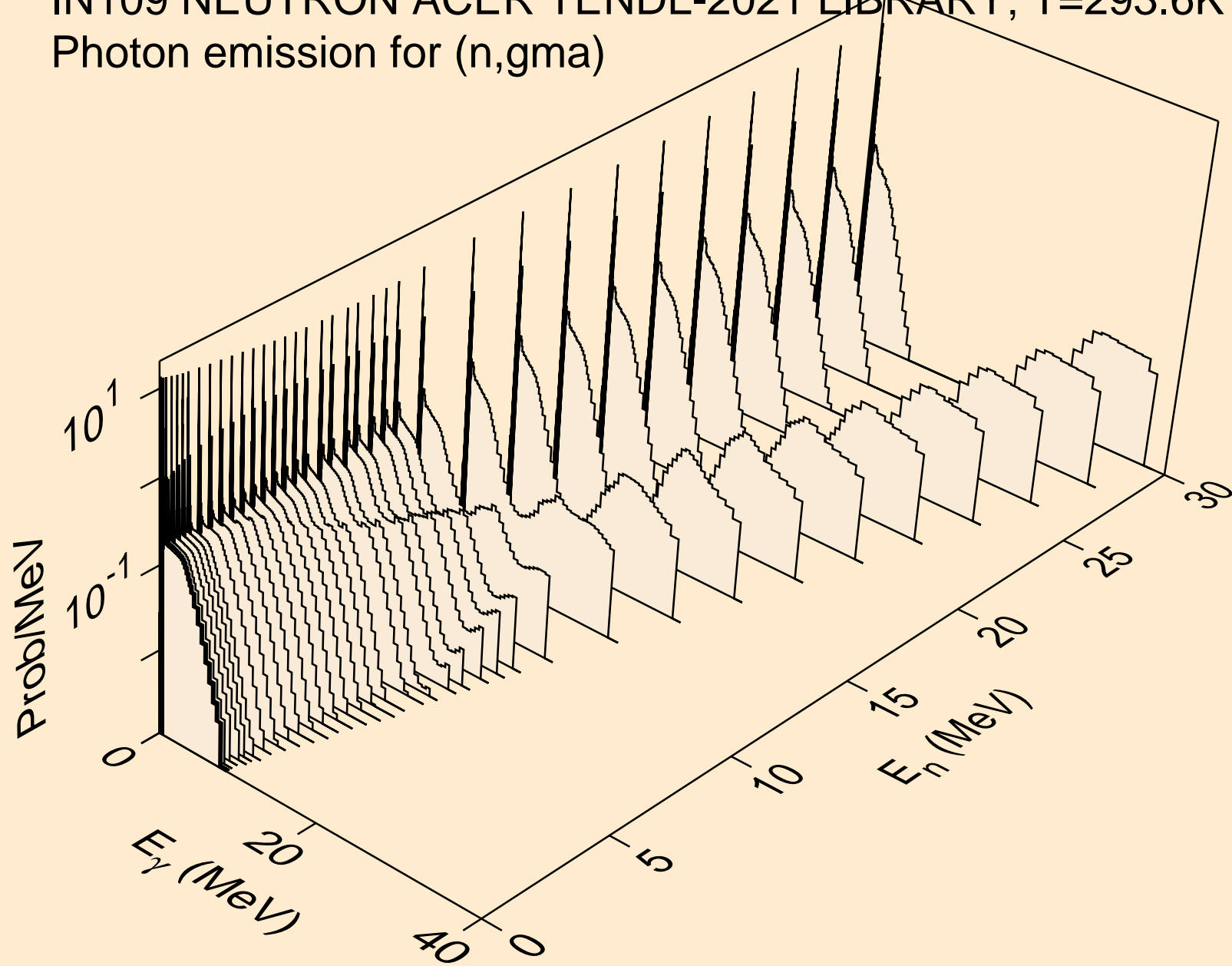
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Photon emission for (n,npa)



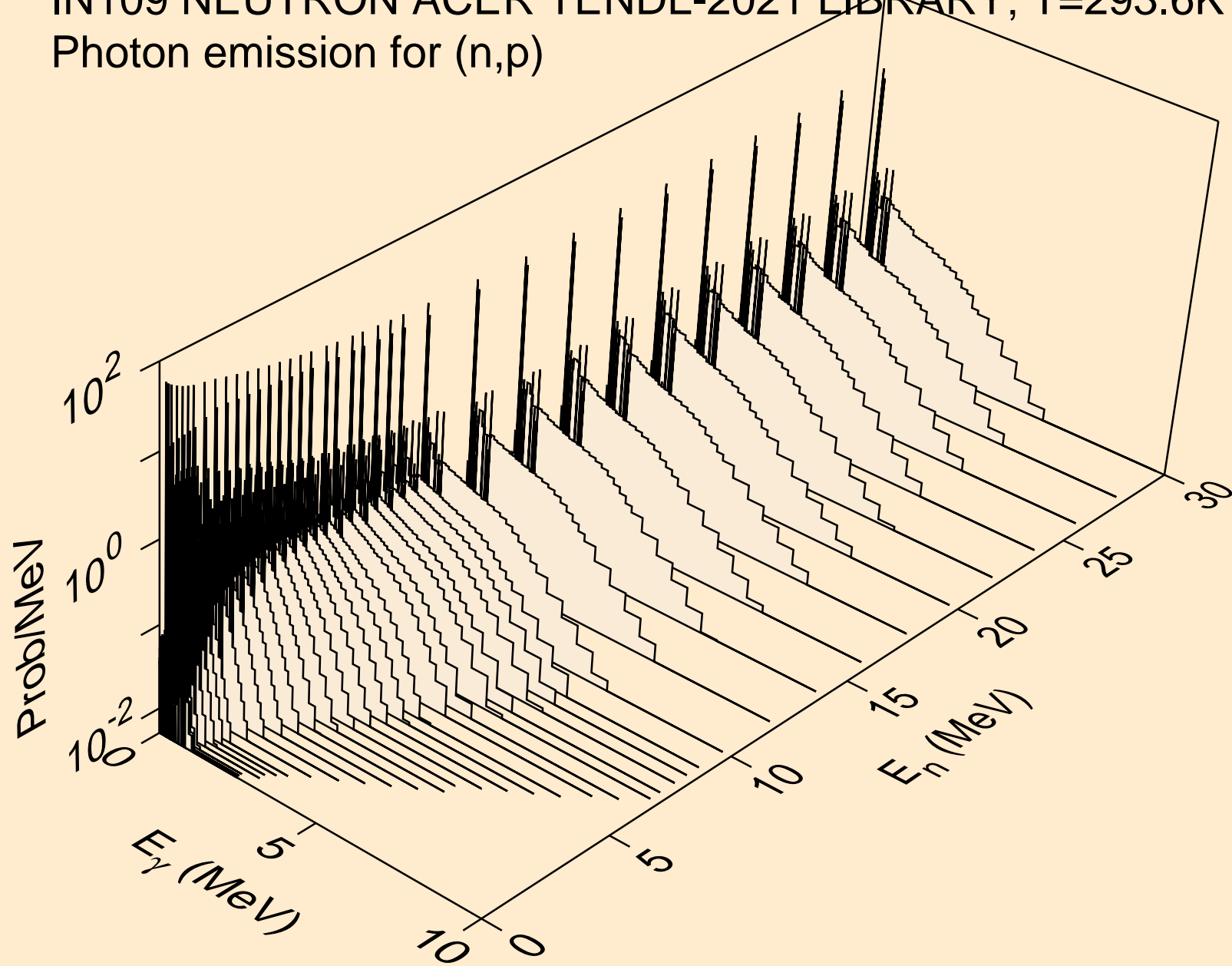
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

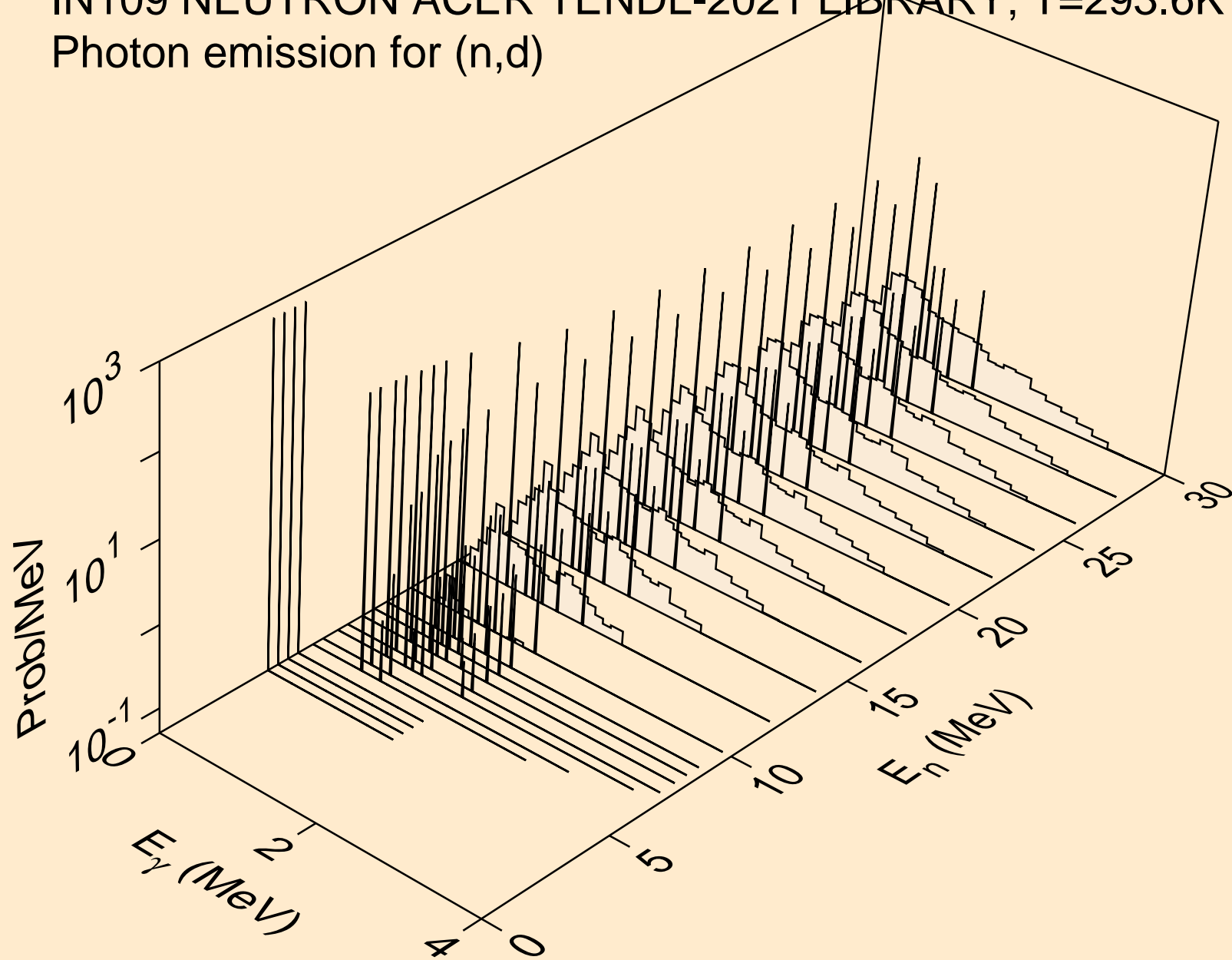


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Photon emission for (n,p)

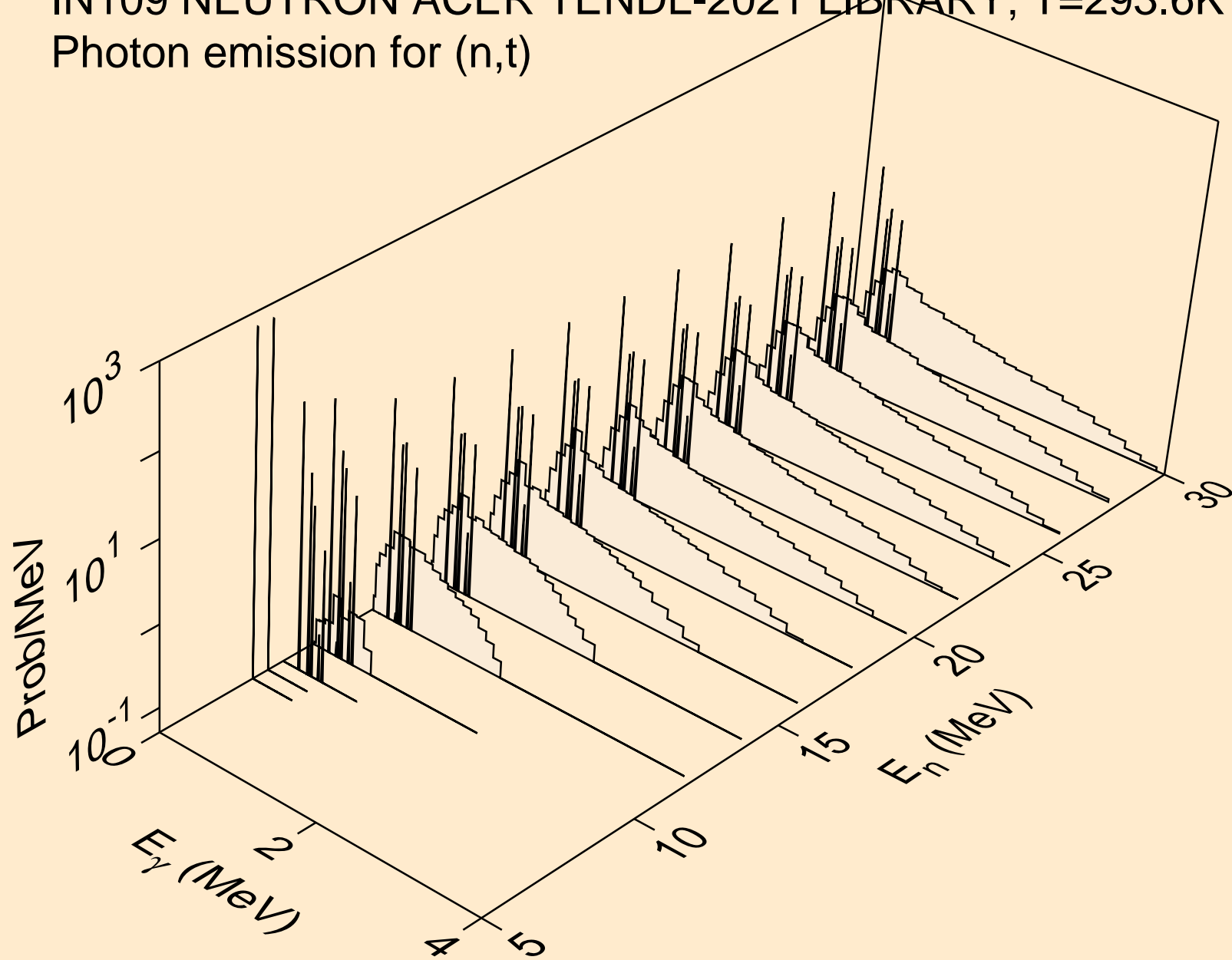




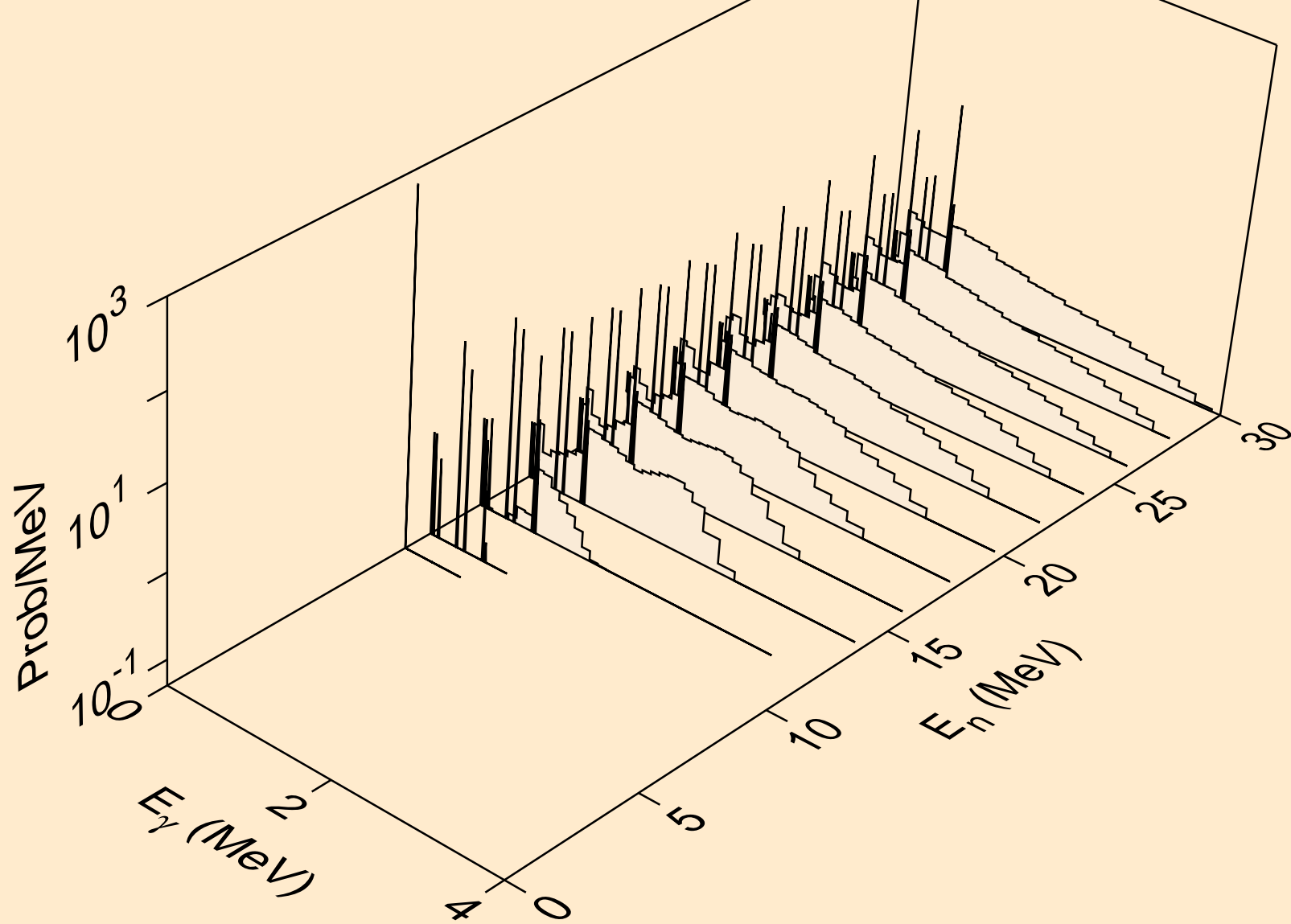
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Photon emission for (n,d)



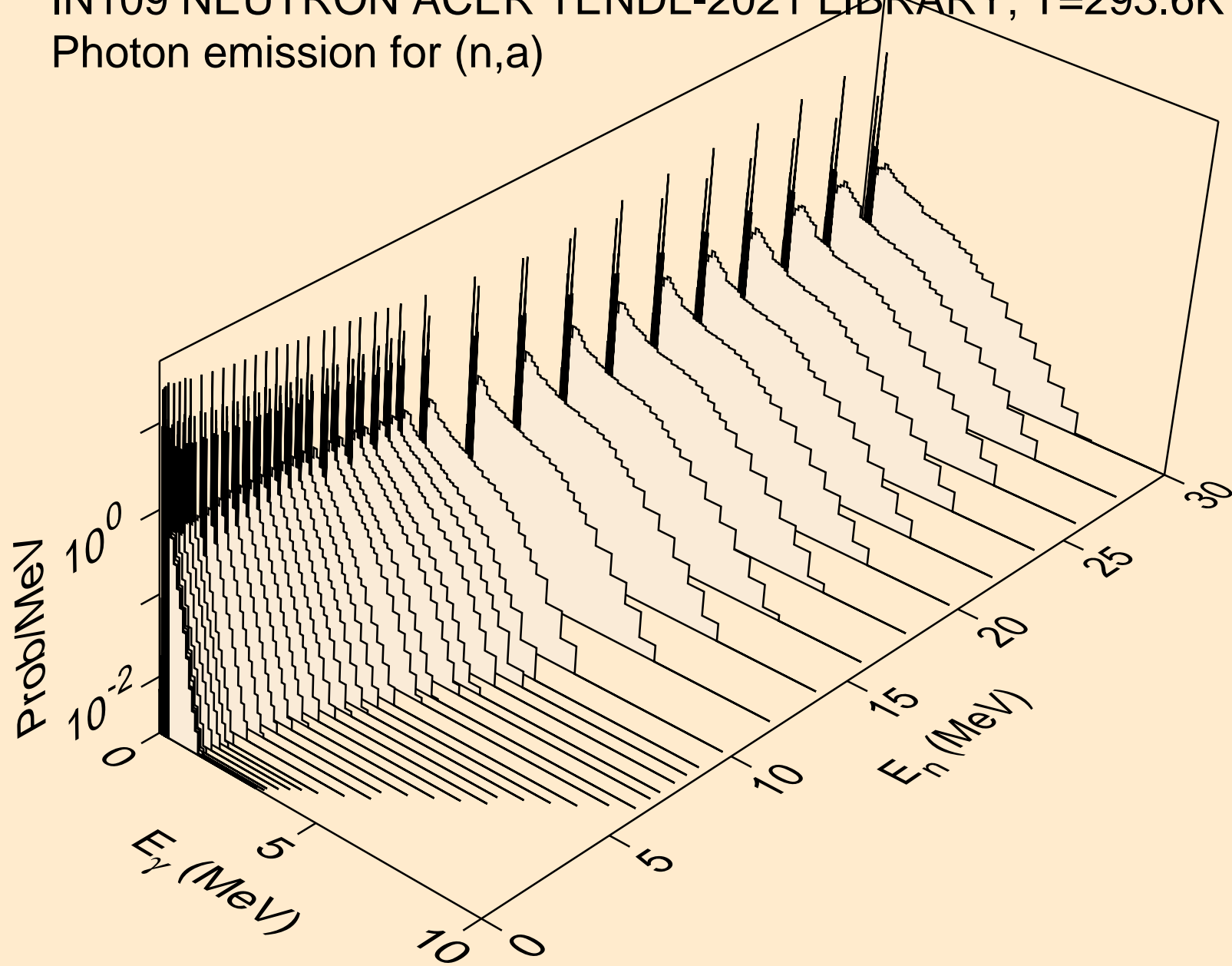
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Photon emission for (n,t)



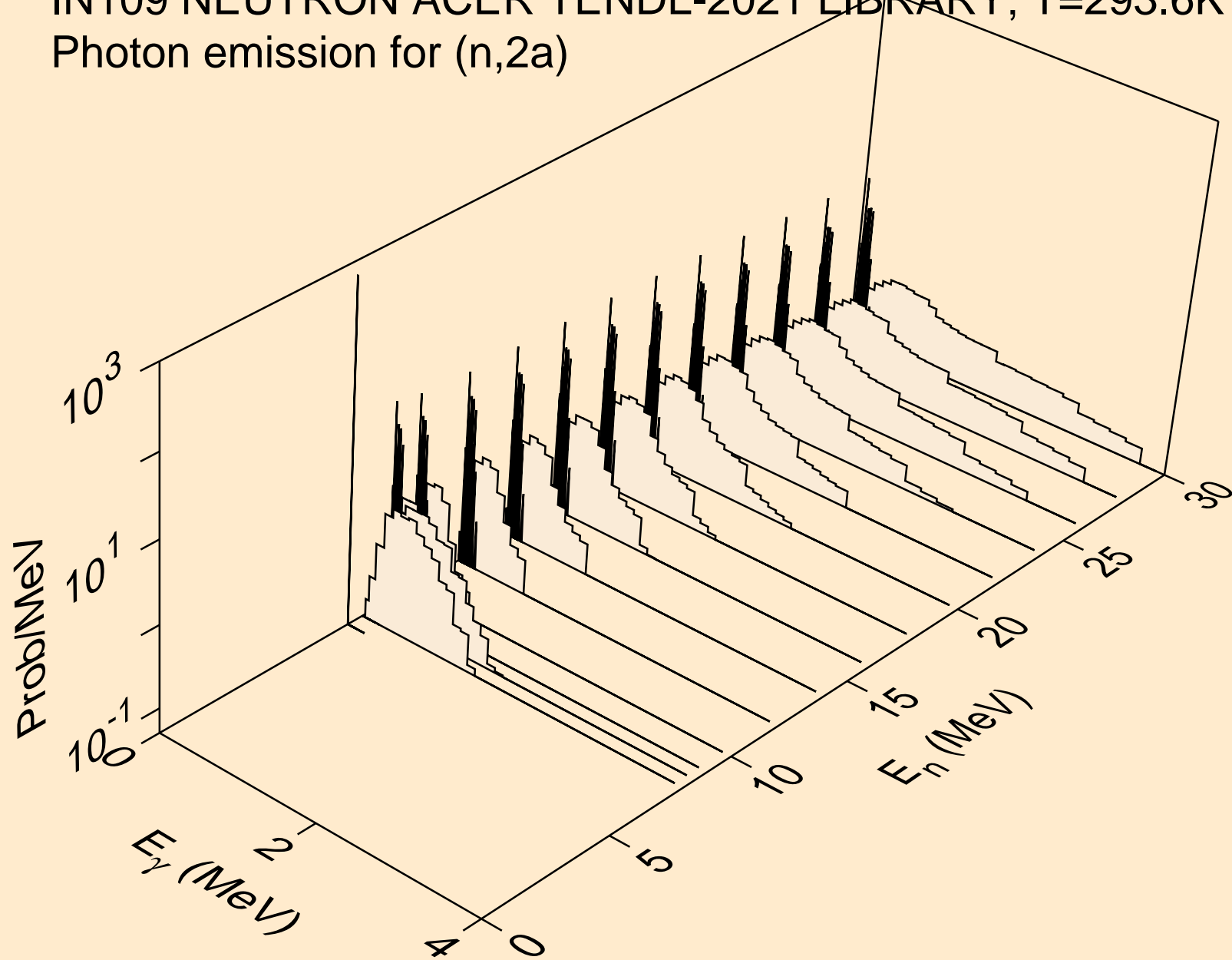
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Photon emission for (n,he3)



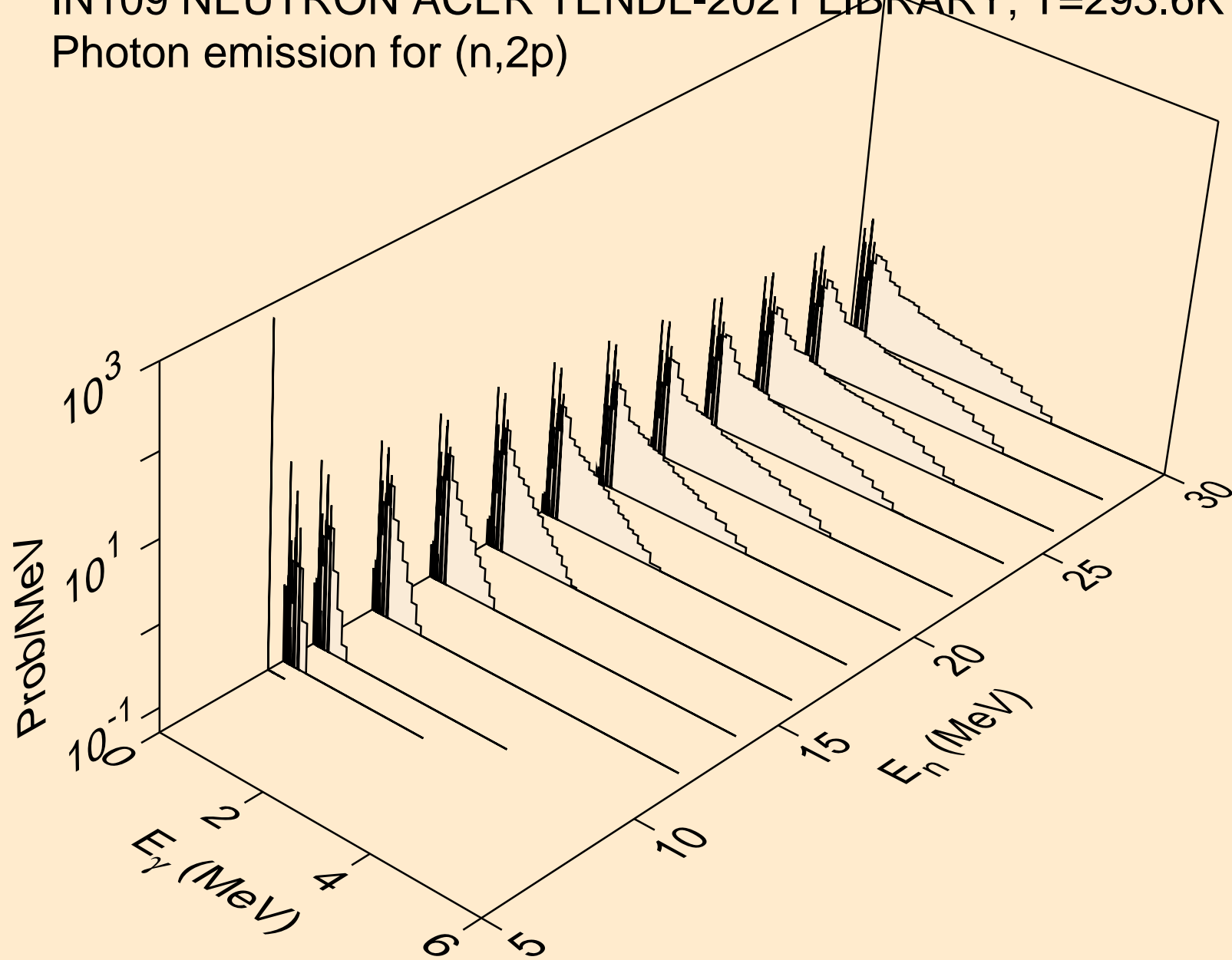
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Photon emission for (n,a)



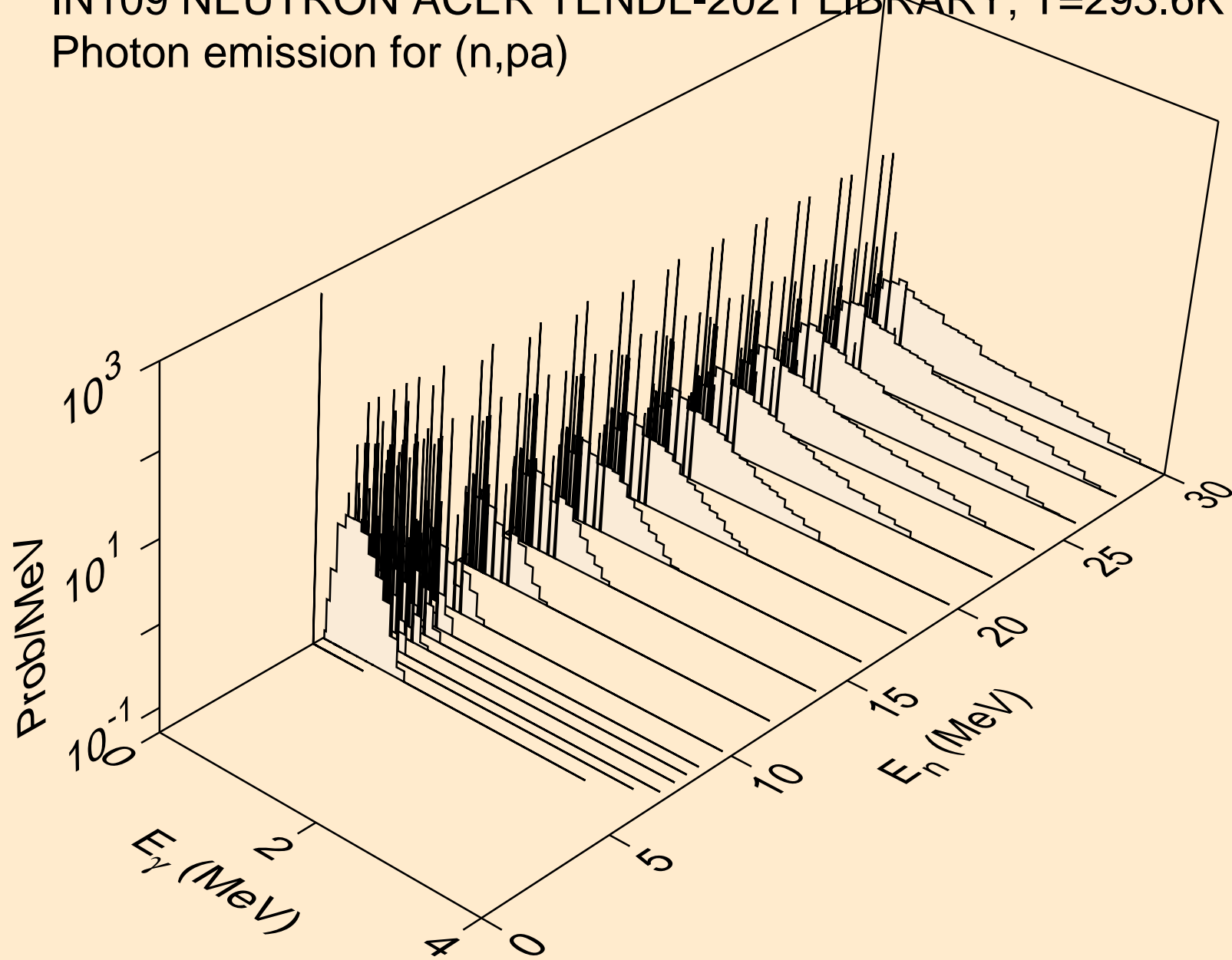
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Photon emission for (n,2a)



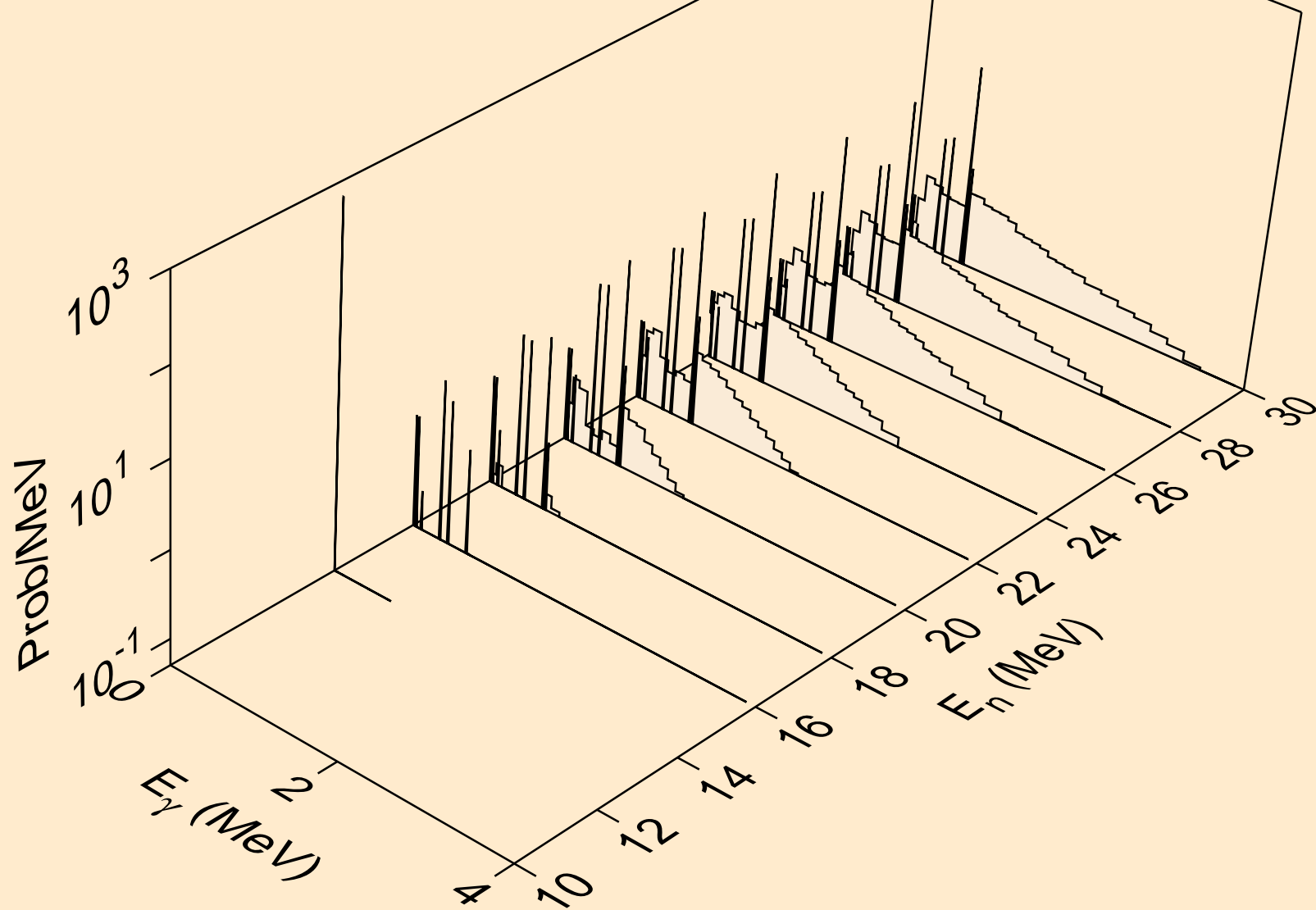
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Photon emission for (n,2p)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p $\alpha$ )

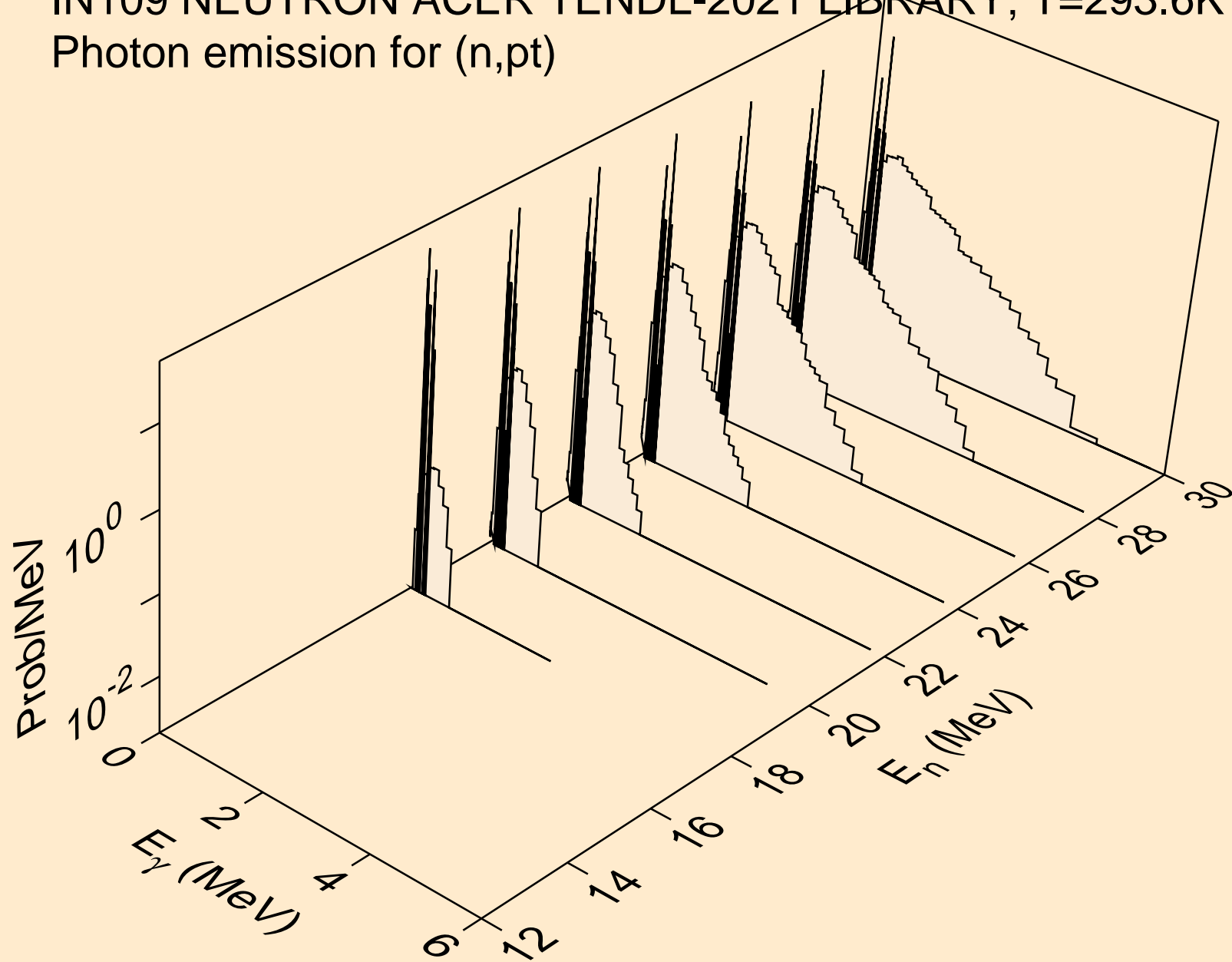


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)

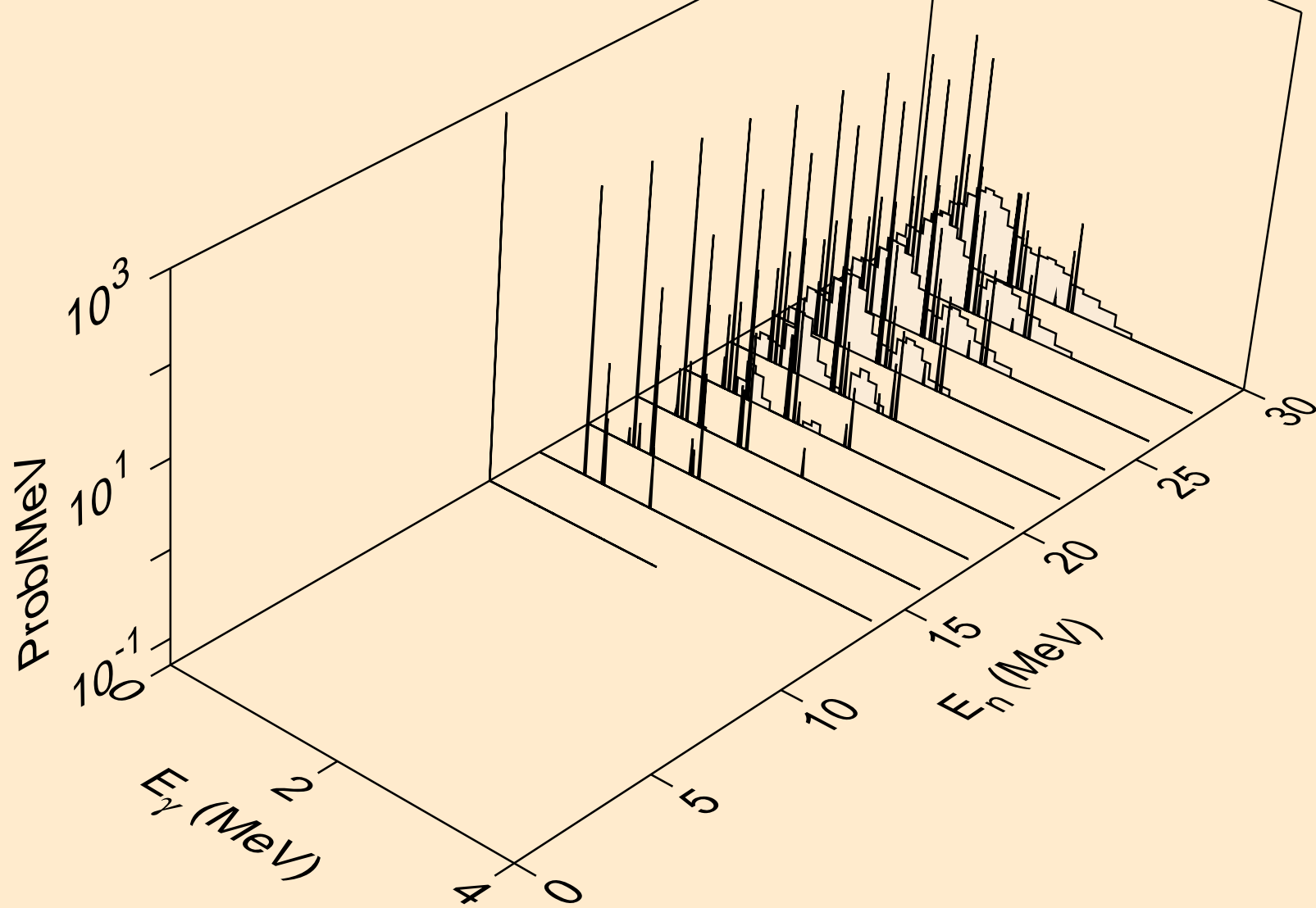




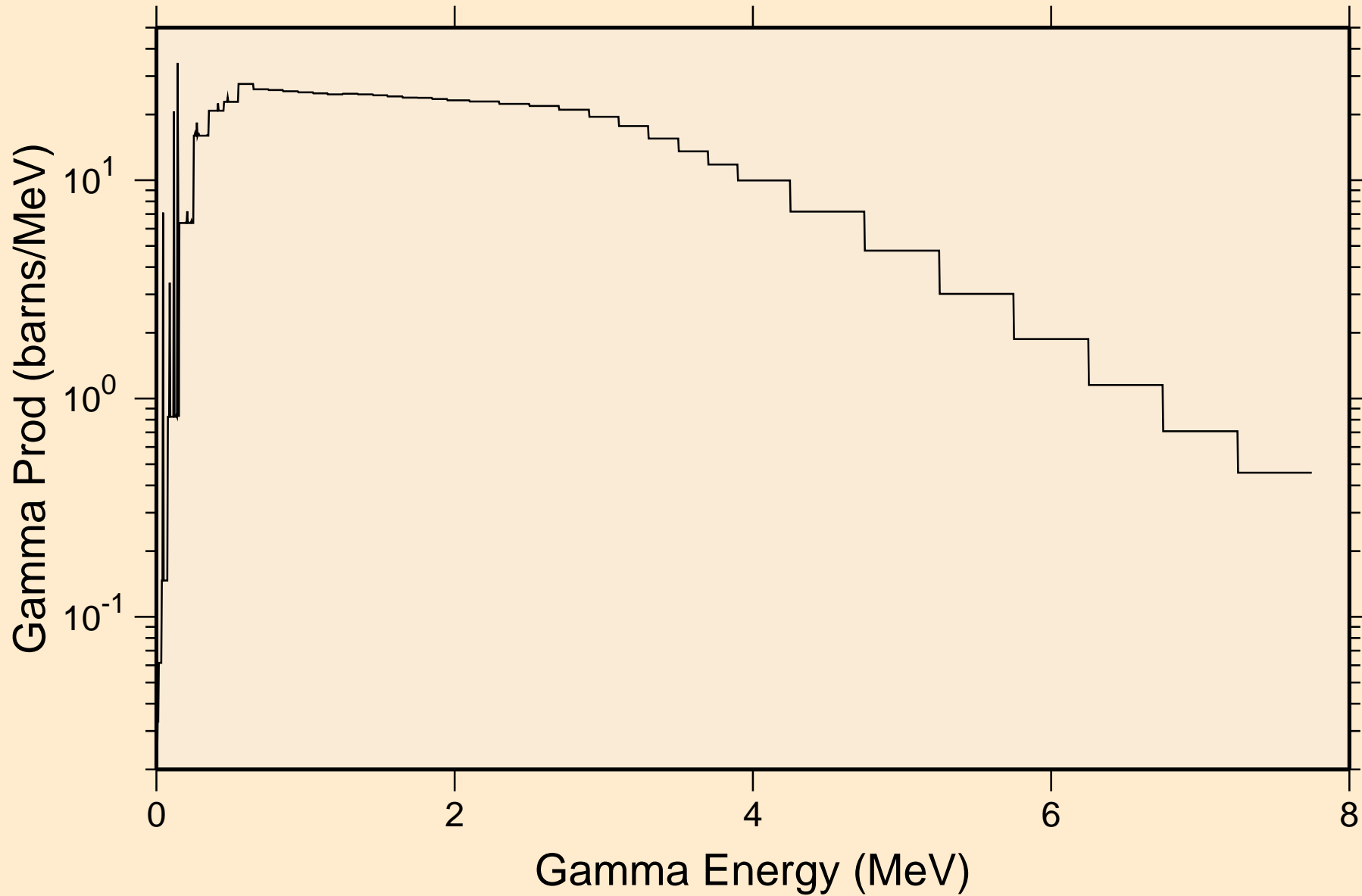
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Photon emission for (n,pt)



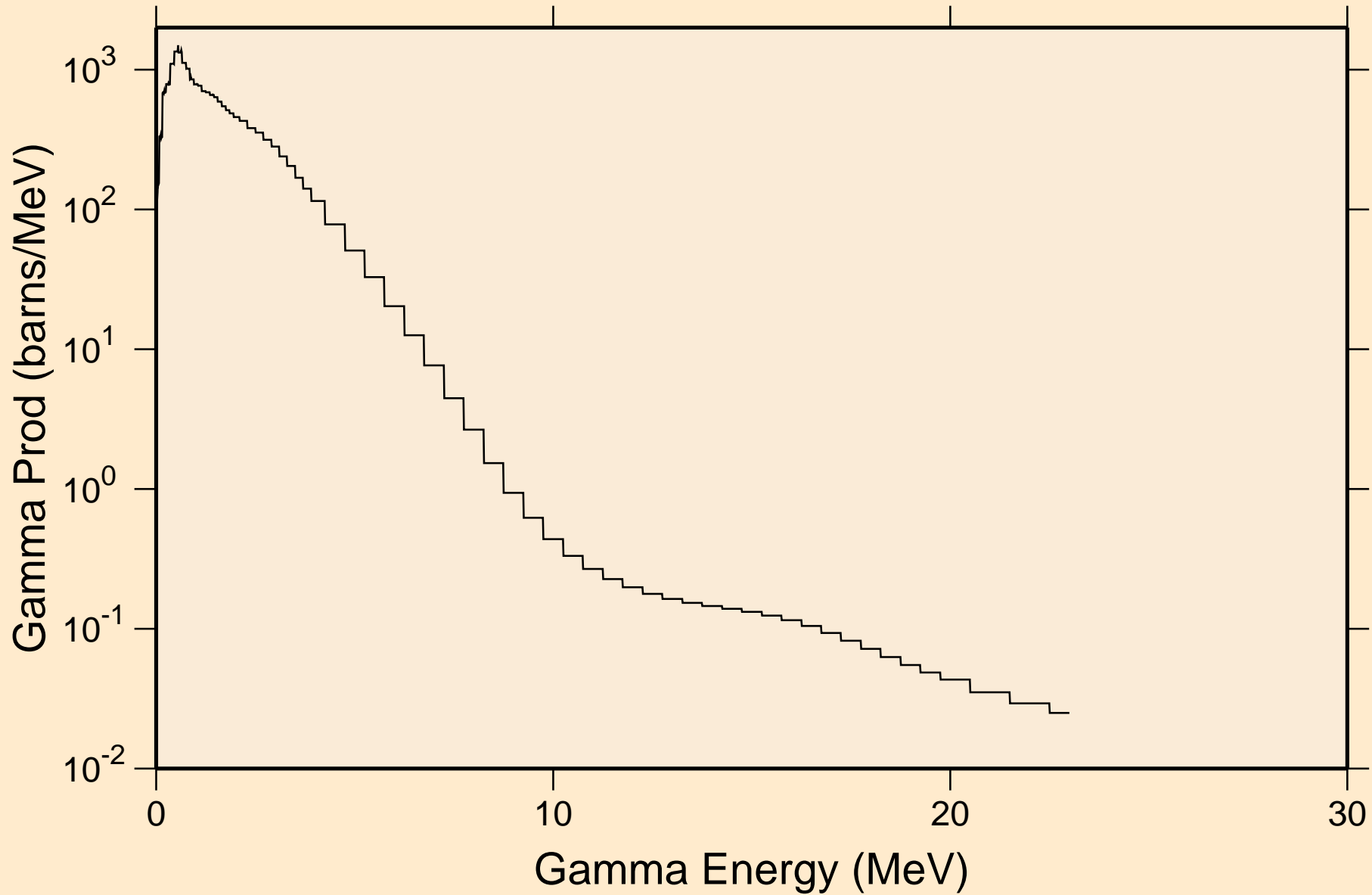
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

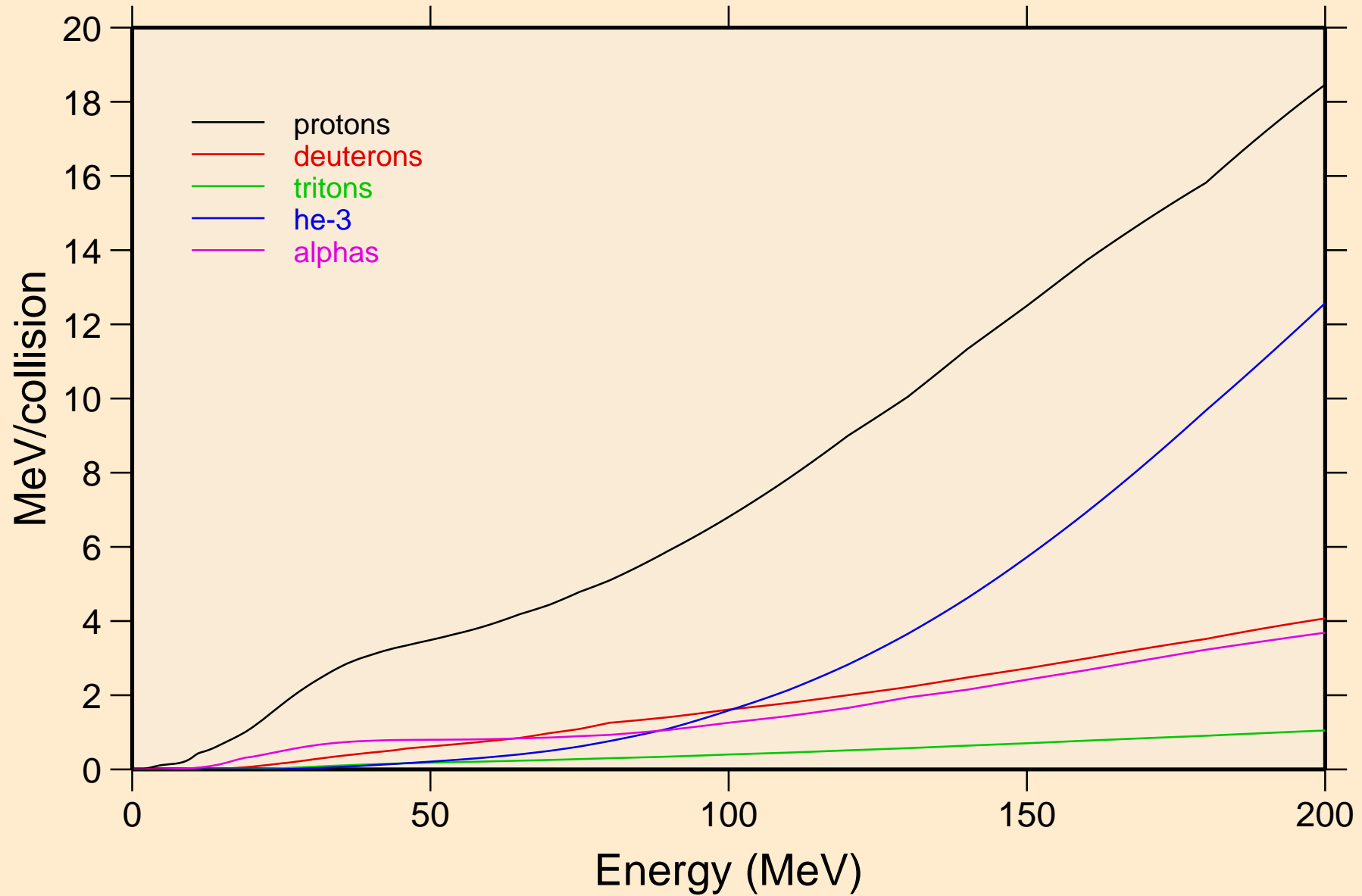


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14 MeV photon spectrum

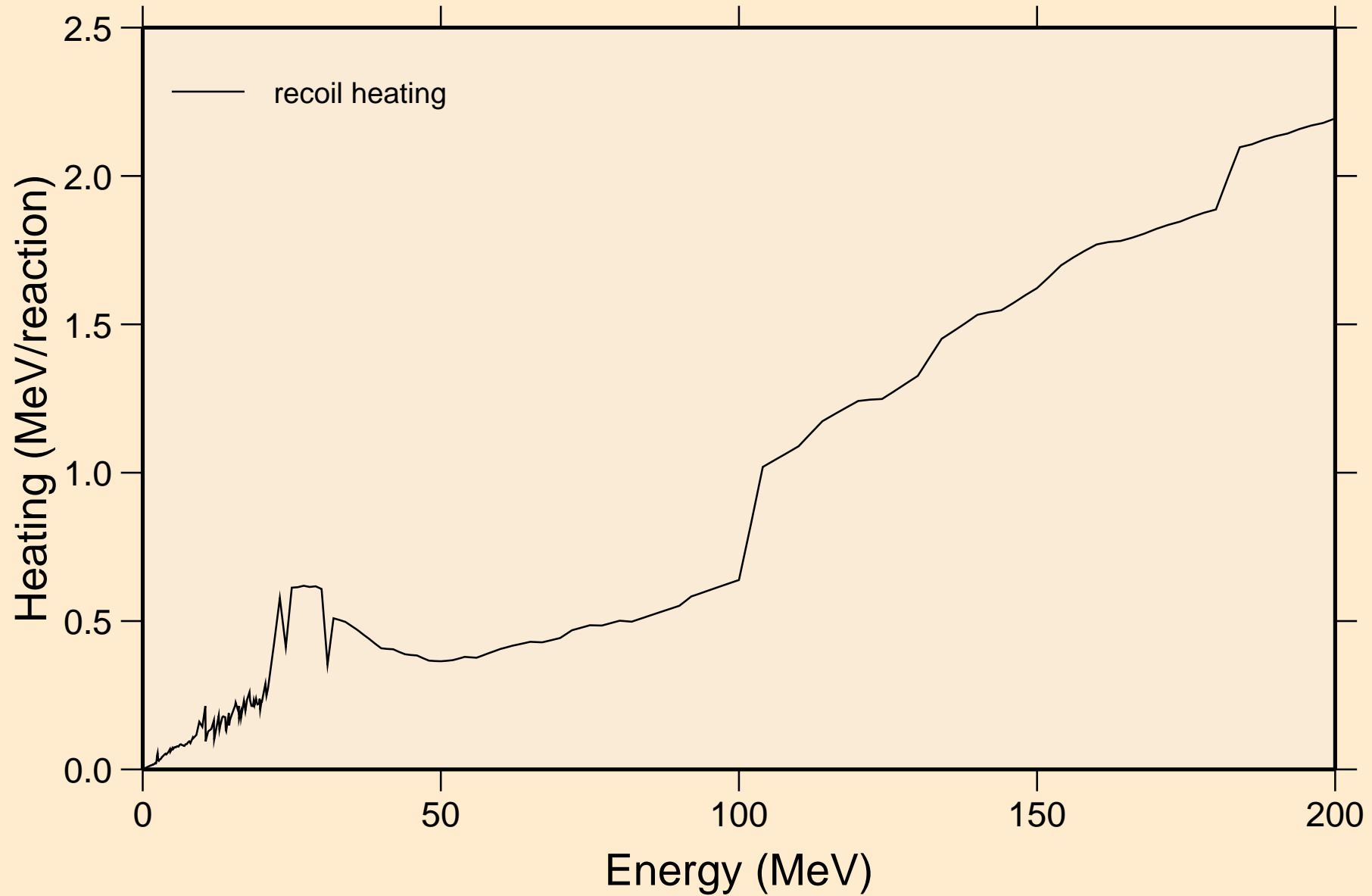


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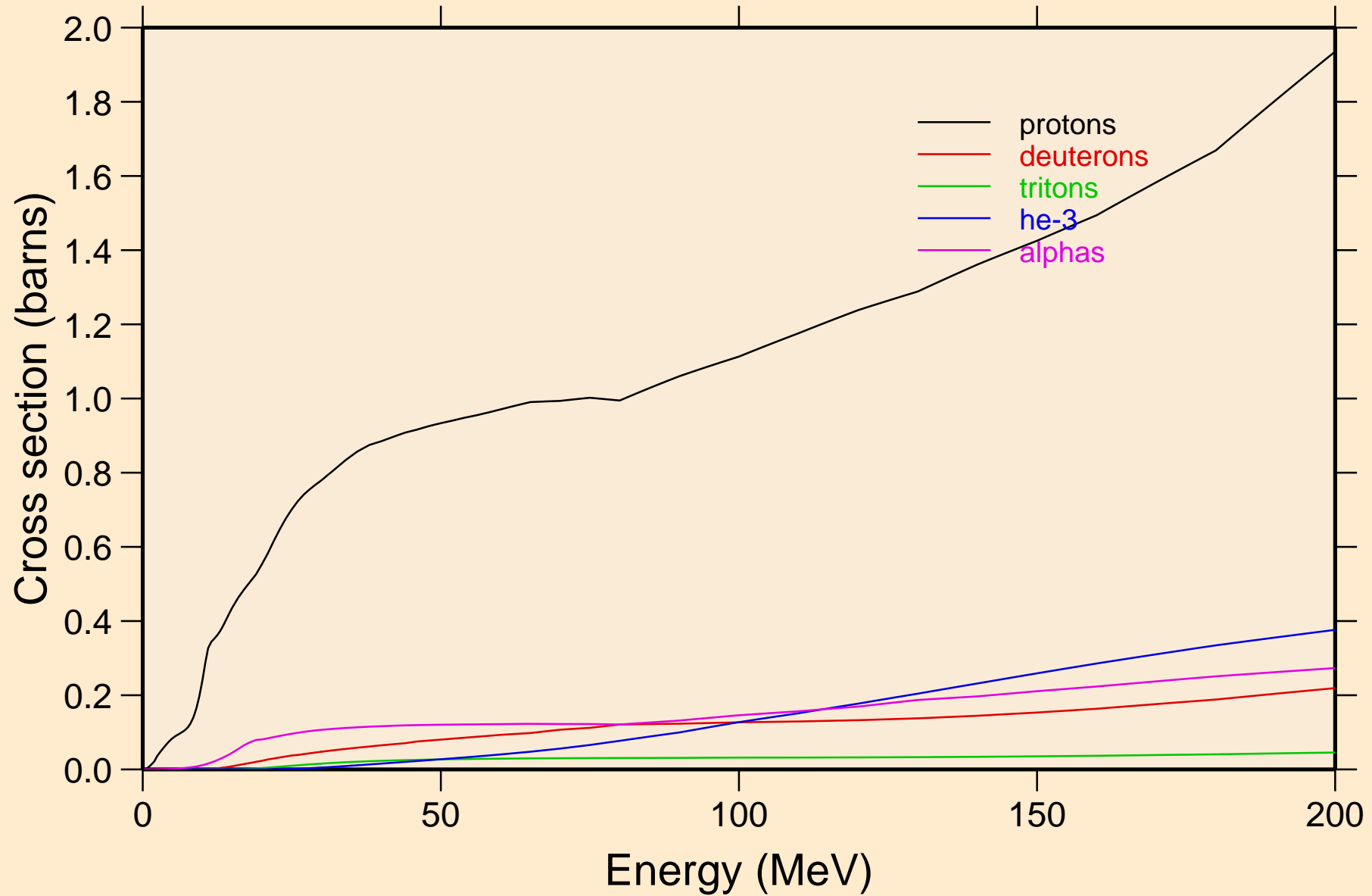
## Particle heating contributions



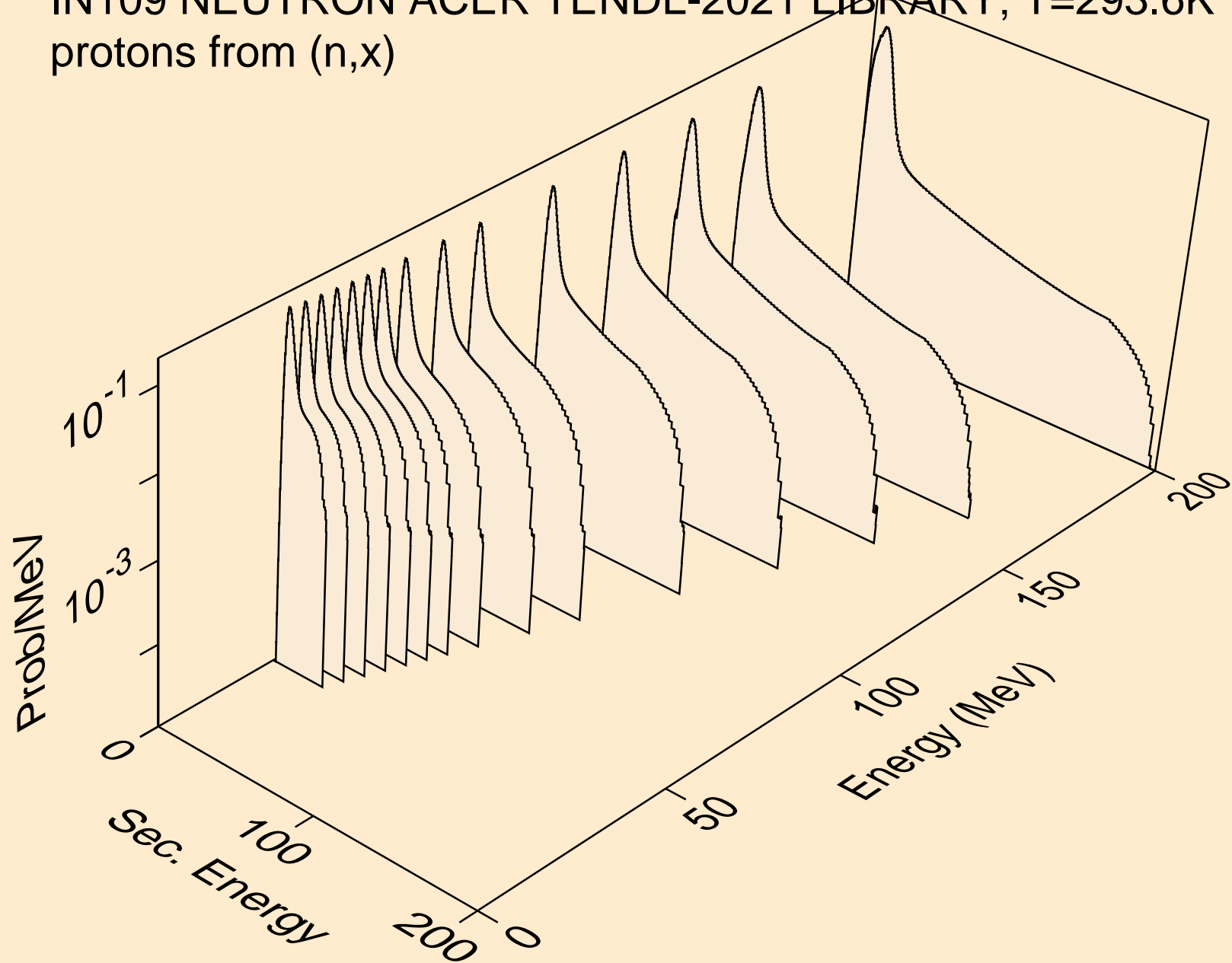
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Recoil Heating



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections

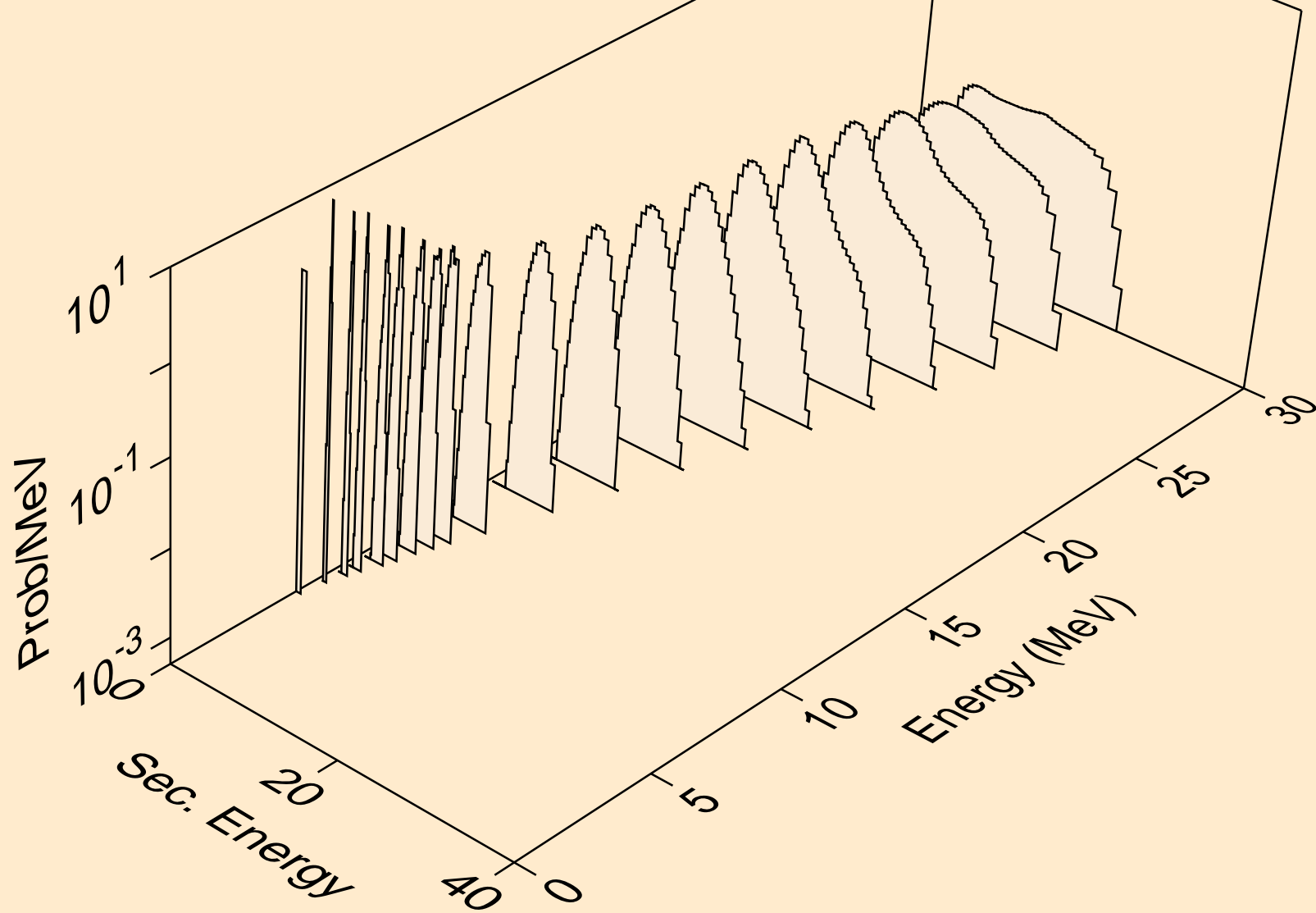


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)

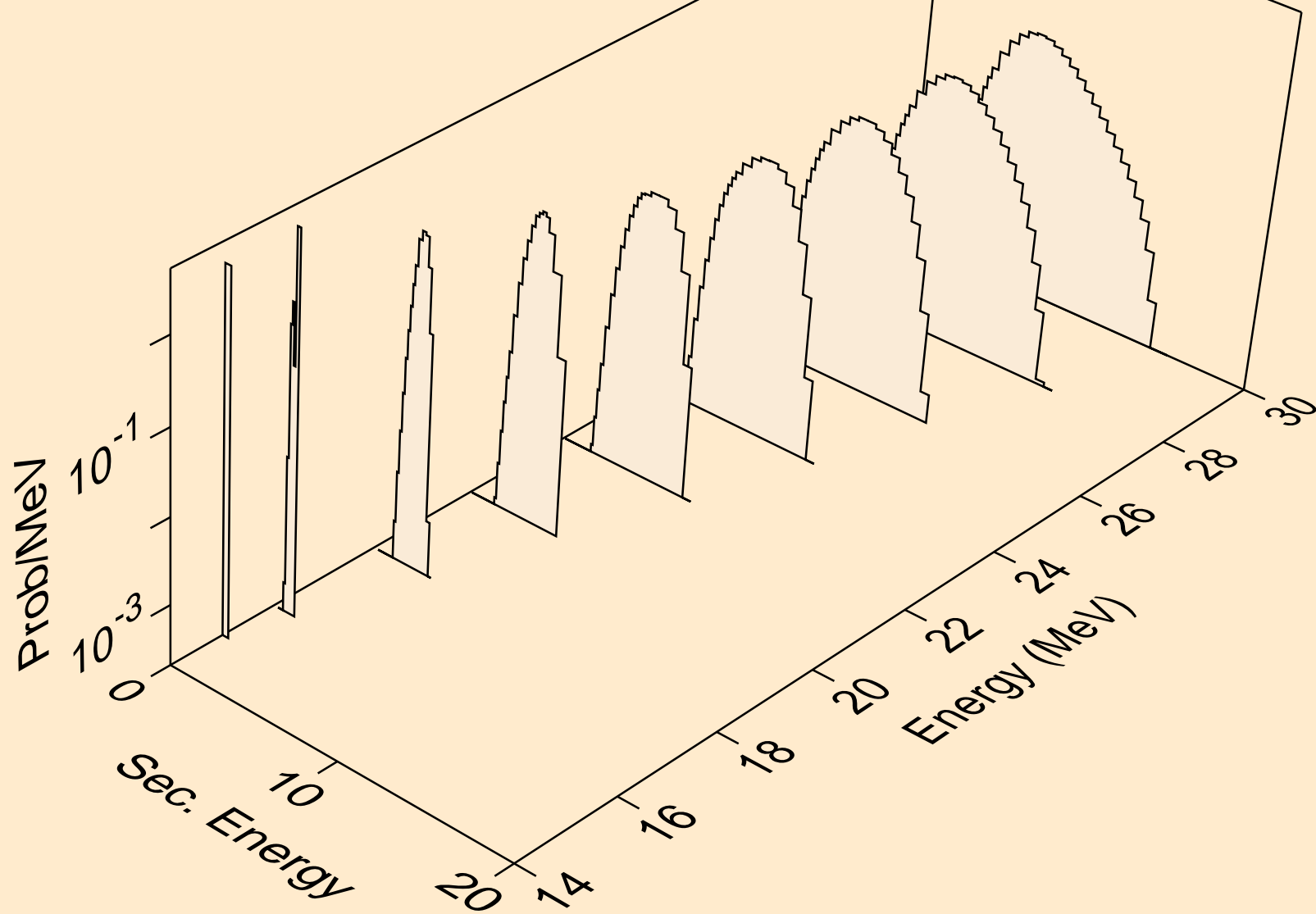




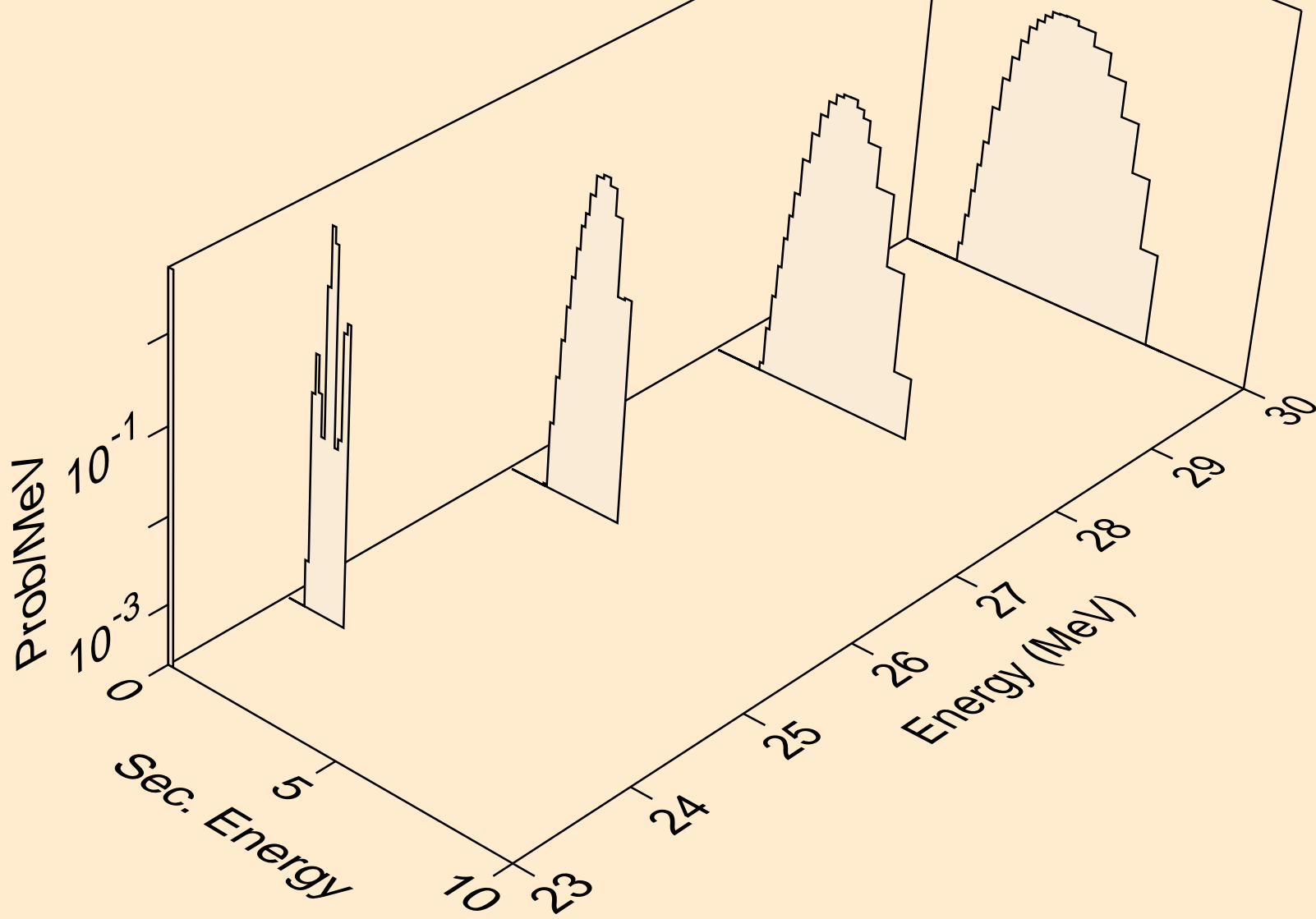
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protons from (n,n\*)p



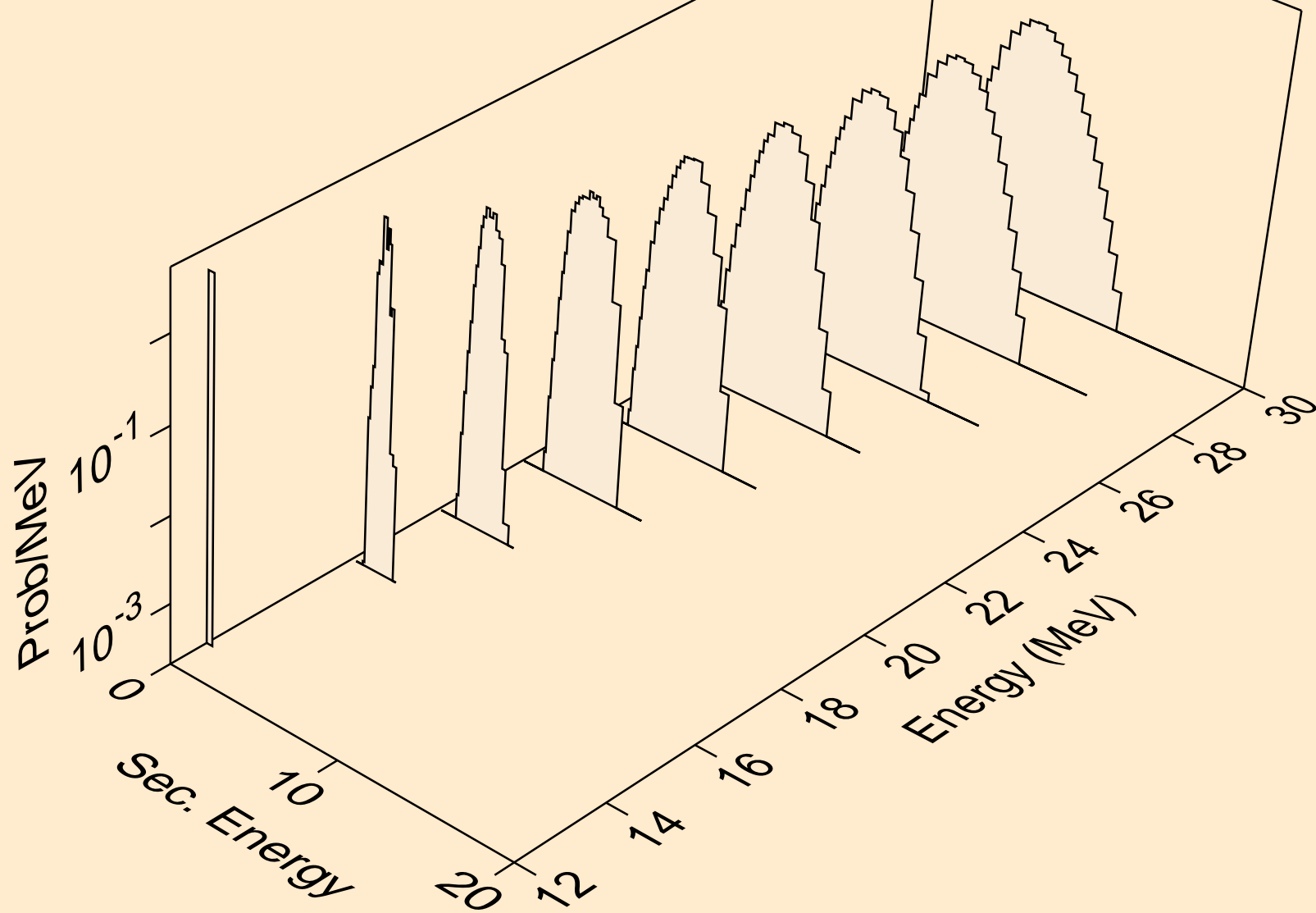
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protons from (n,2np)



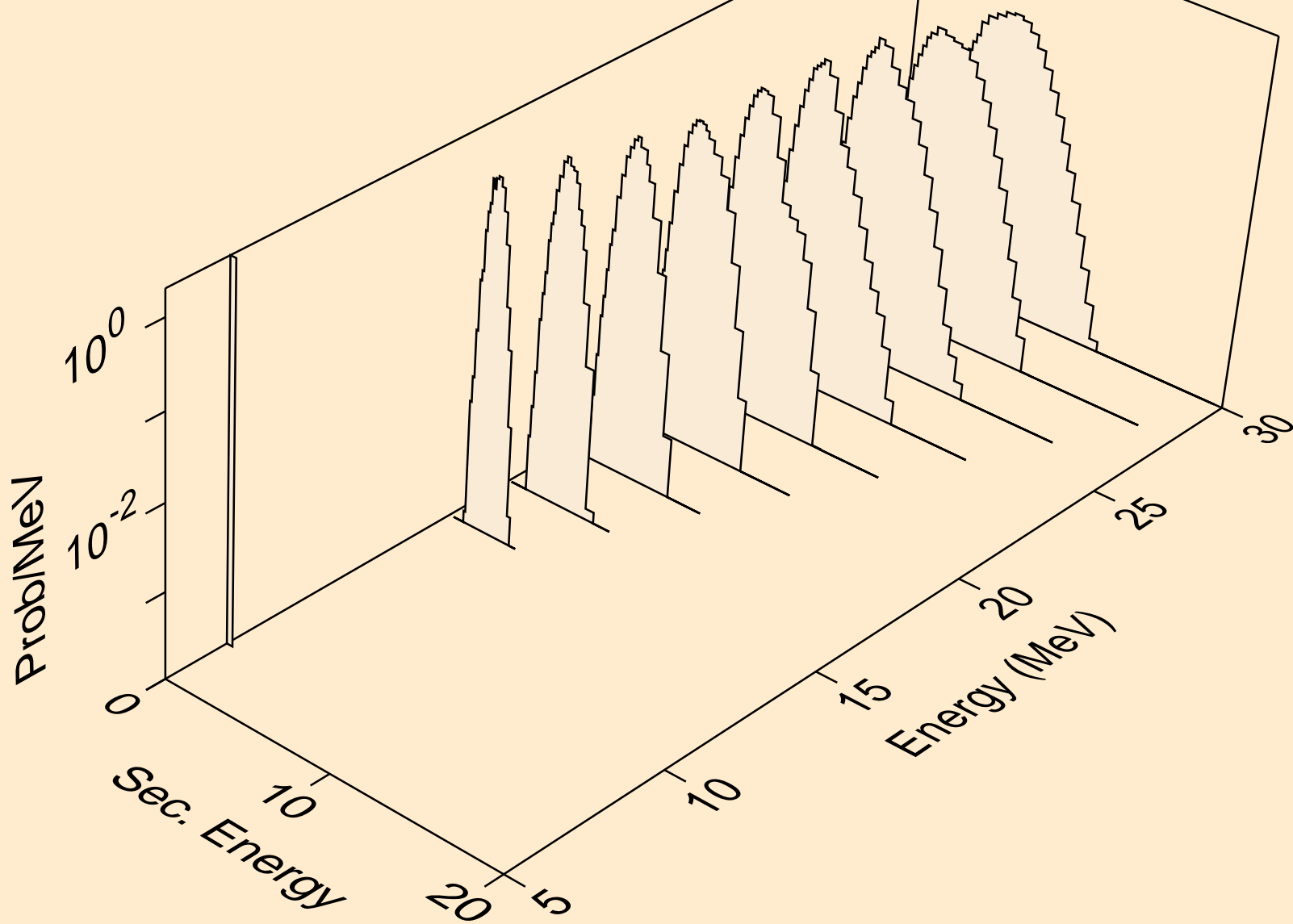
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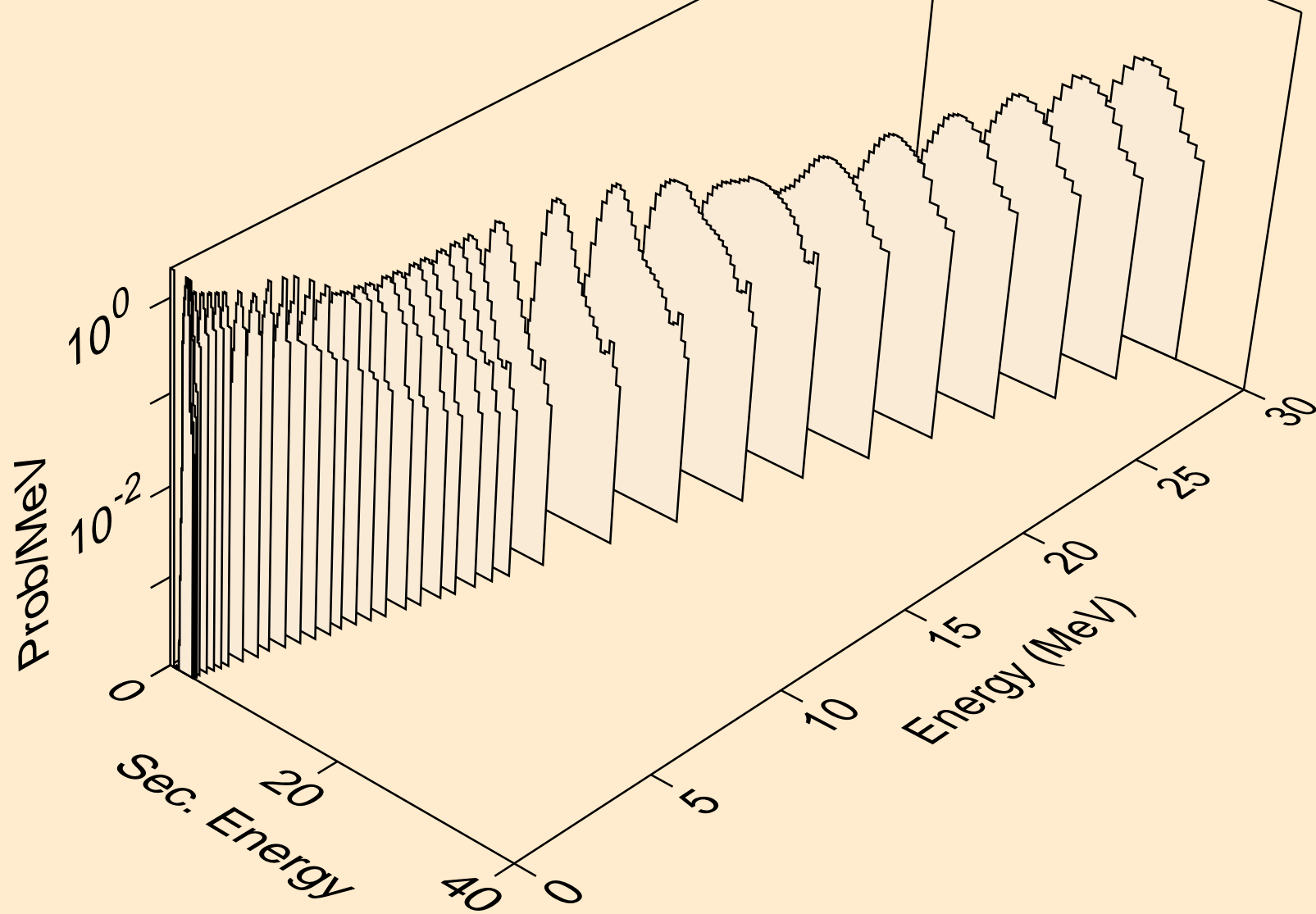
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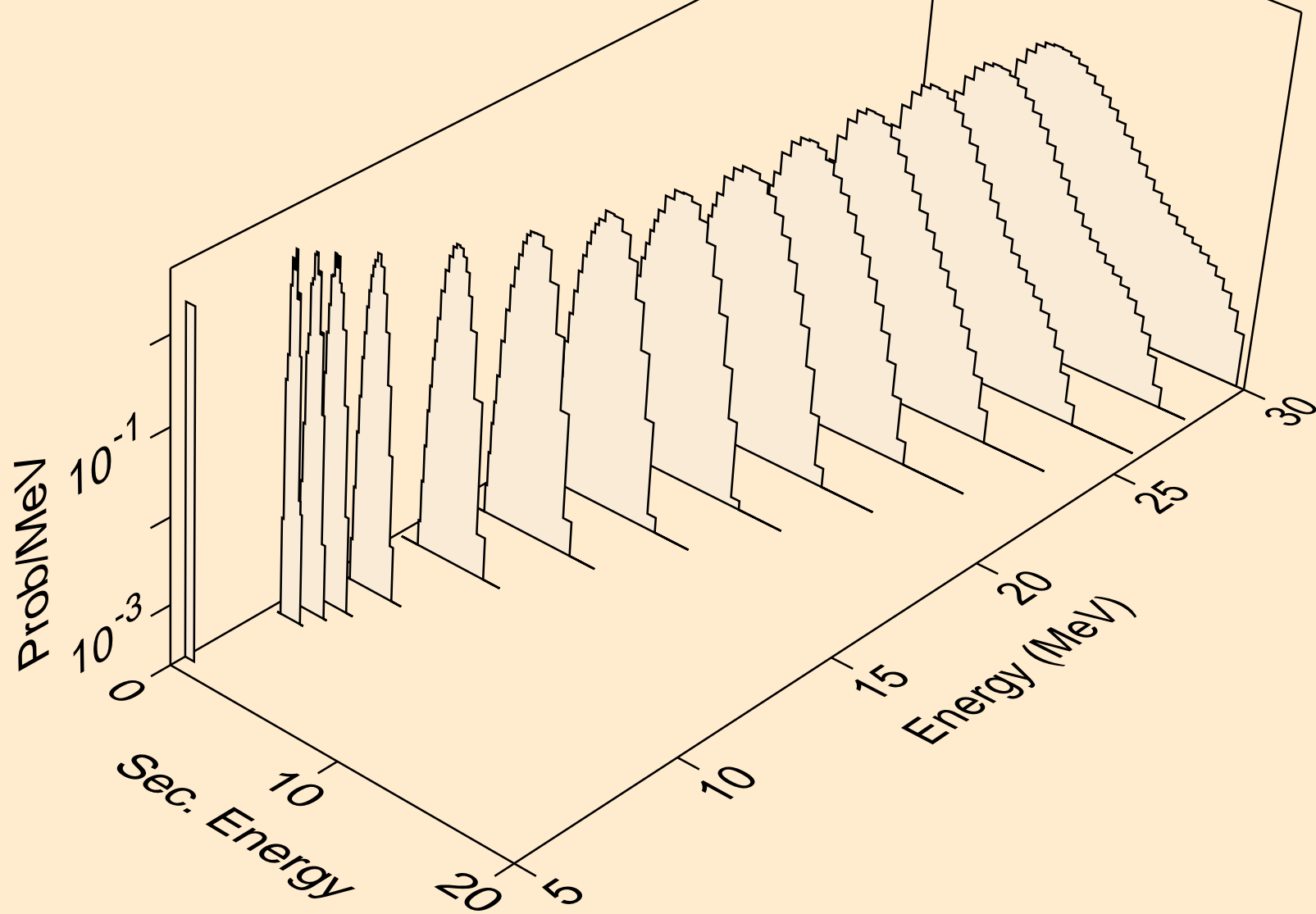
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protons from (n,npa)



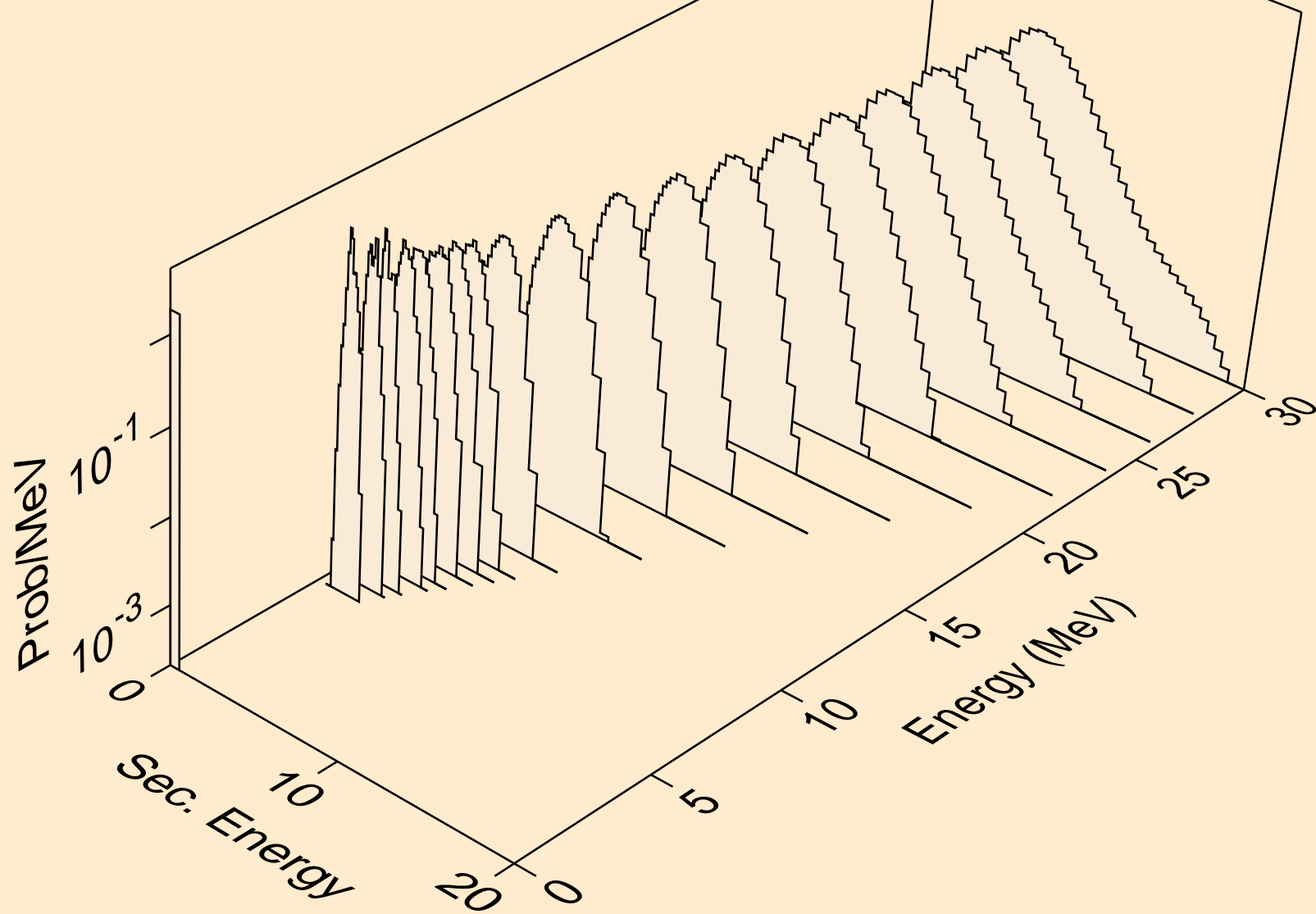
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protons from (n,p)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
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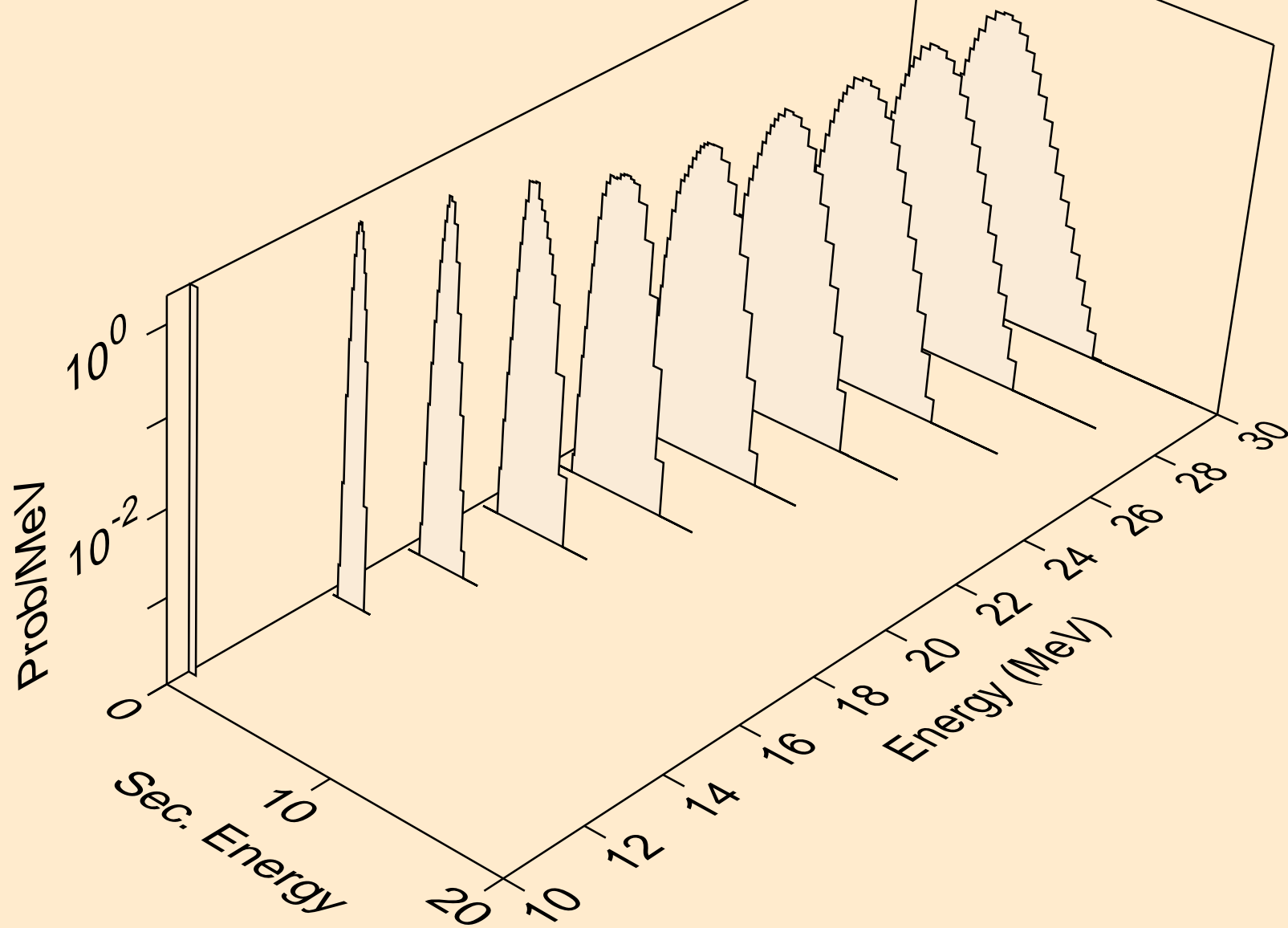


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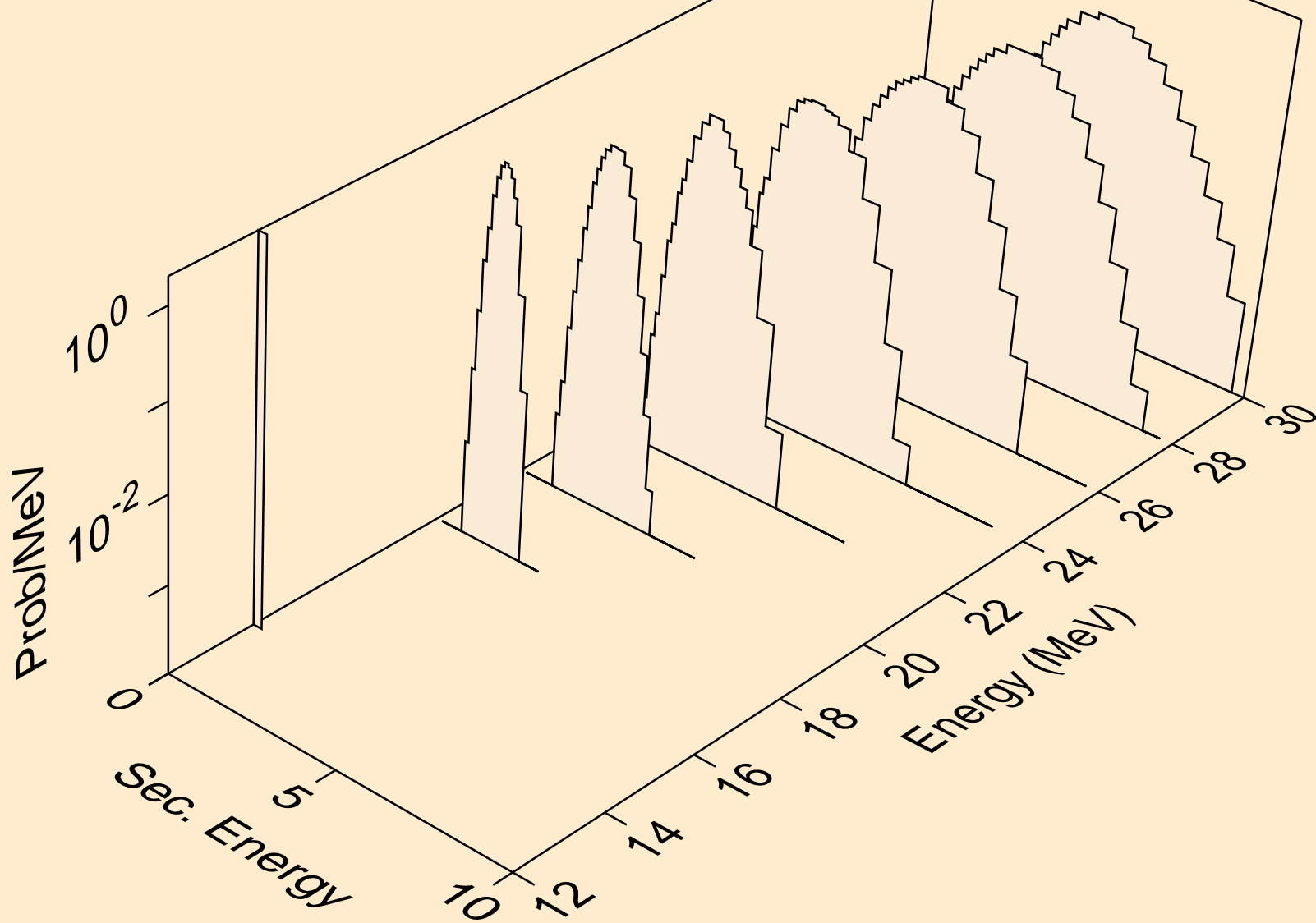




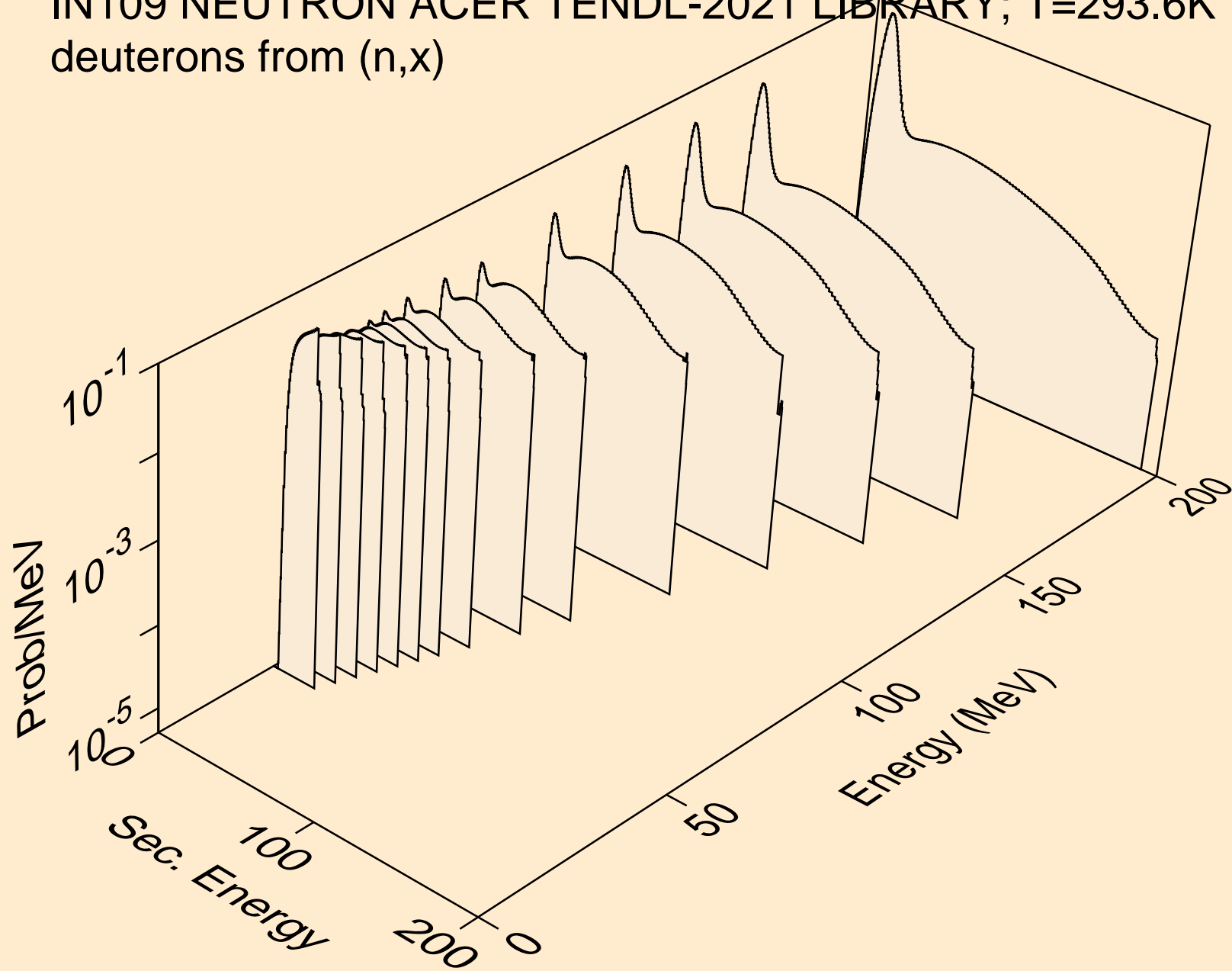
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protons from (n,pd)



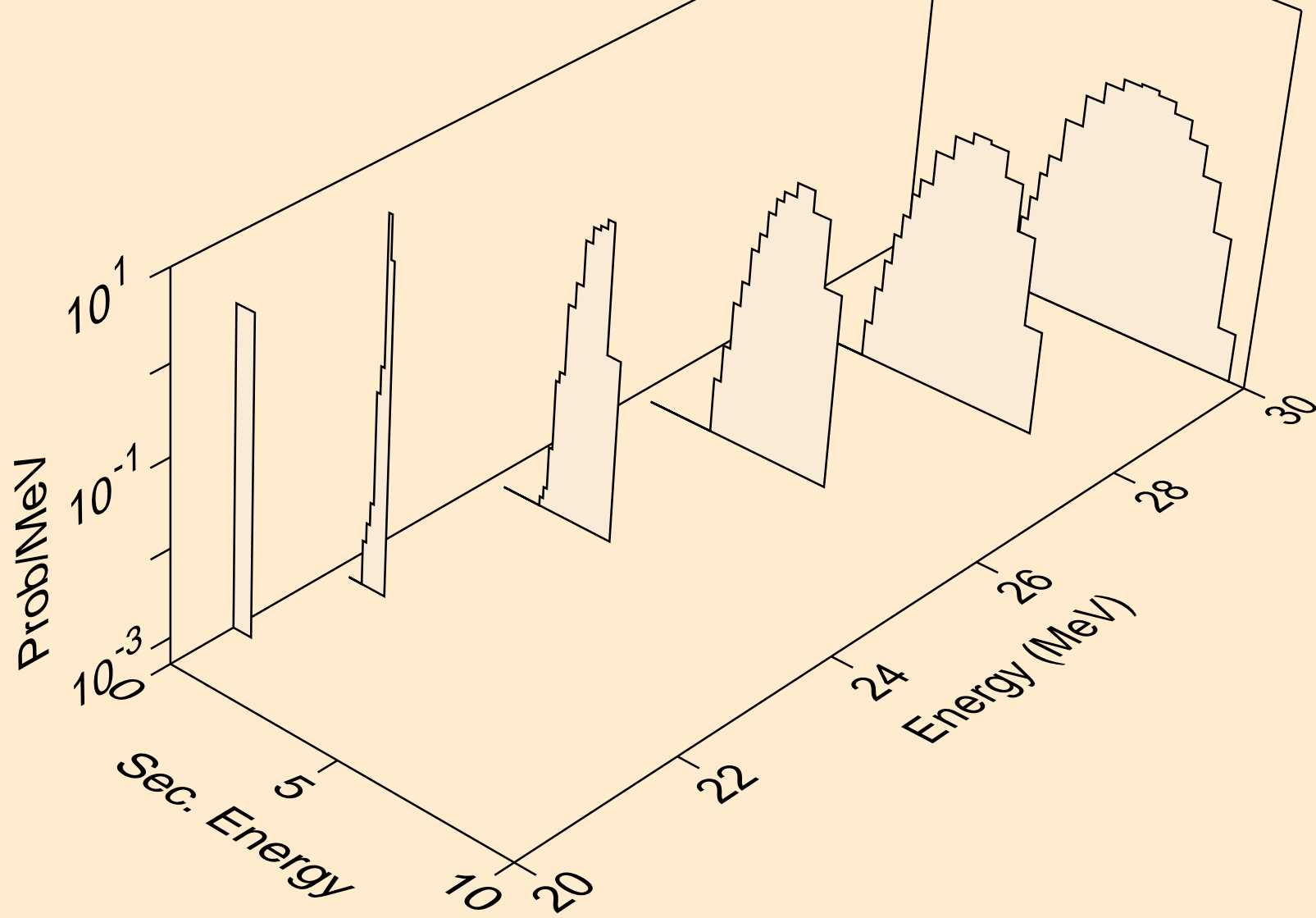
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protons from (n,pt)



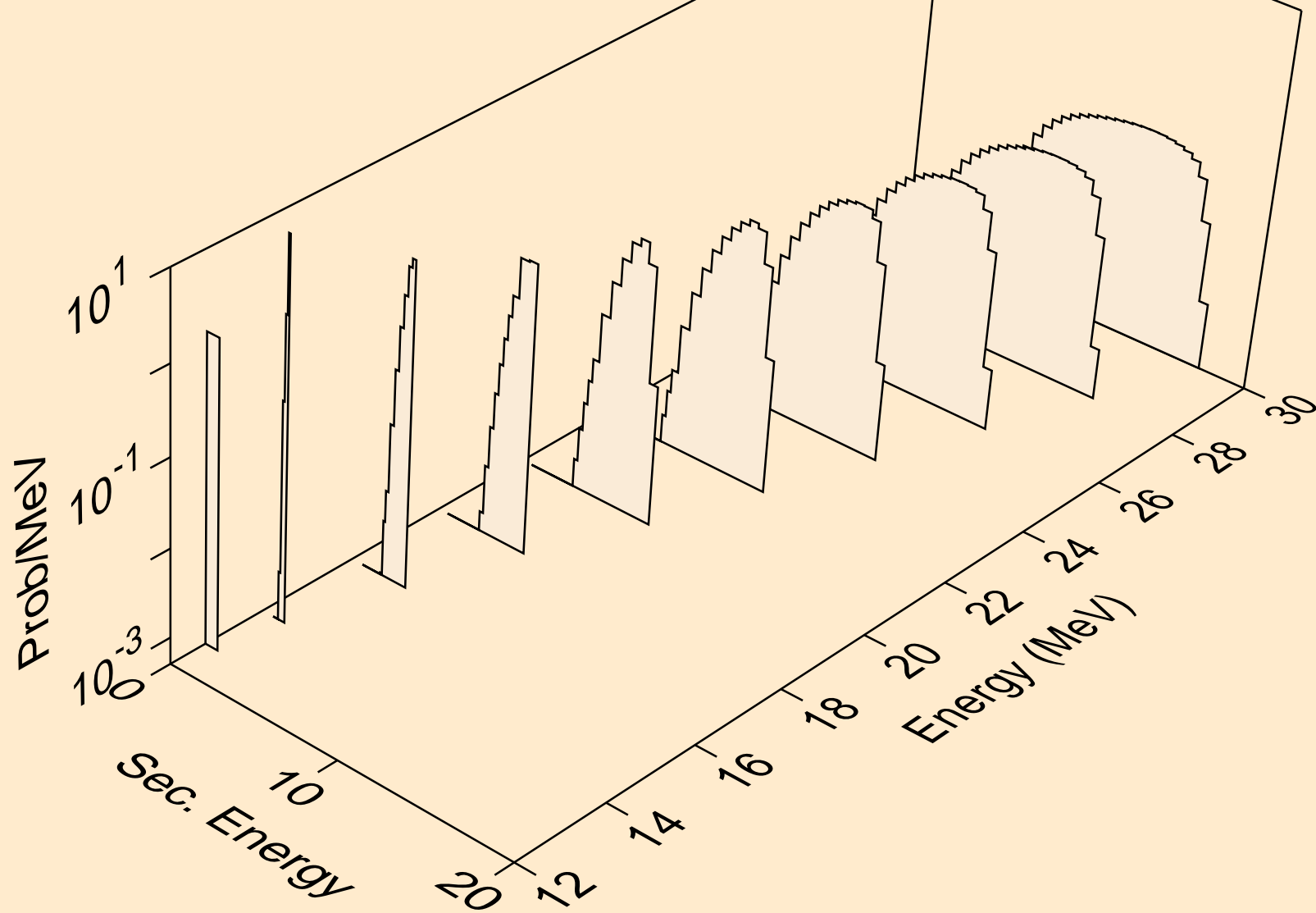
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deuterons from (n,x)



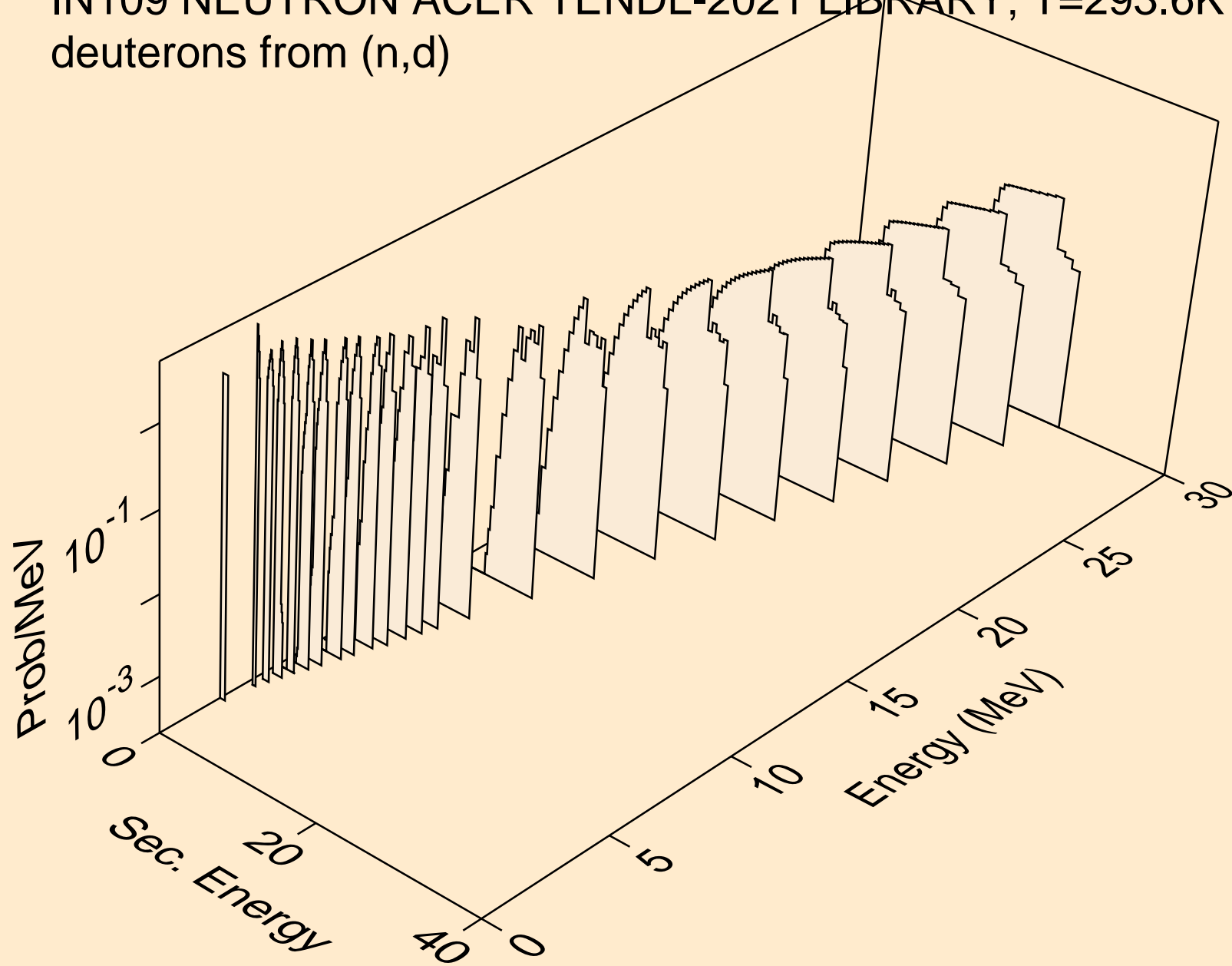
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deuterons from (n,2nd)



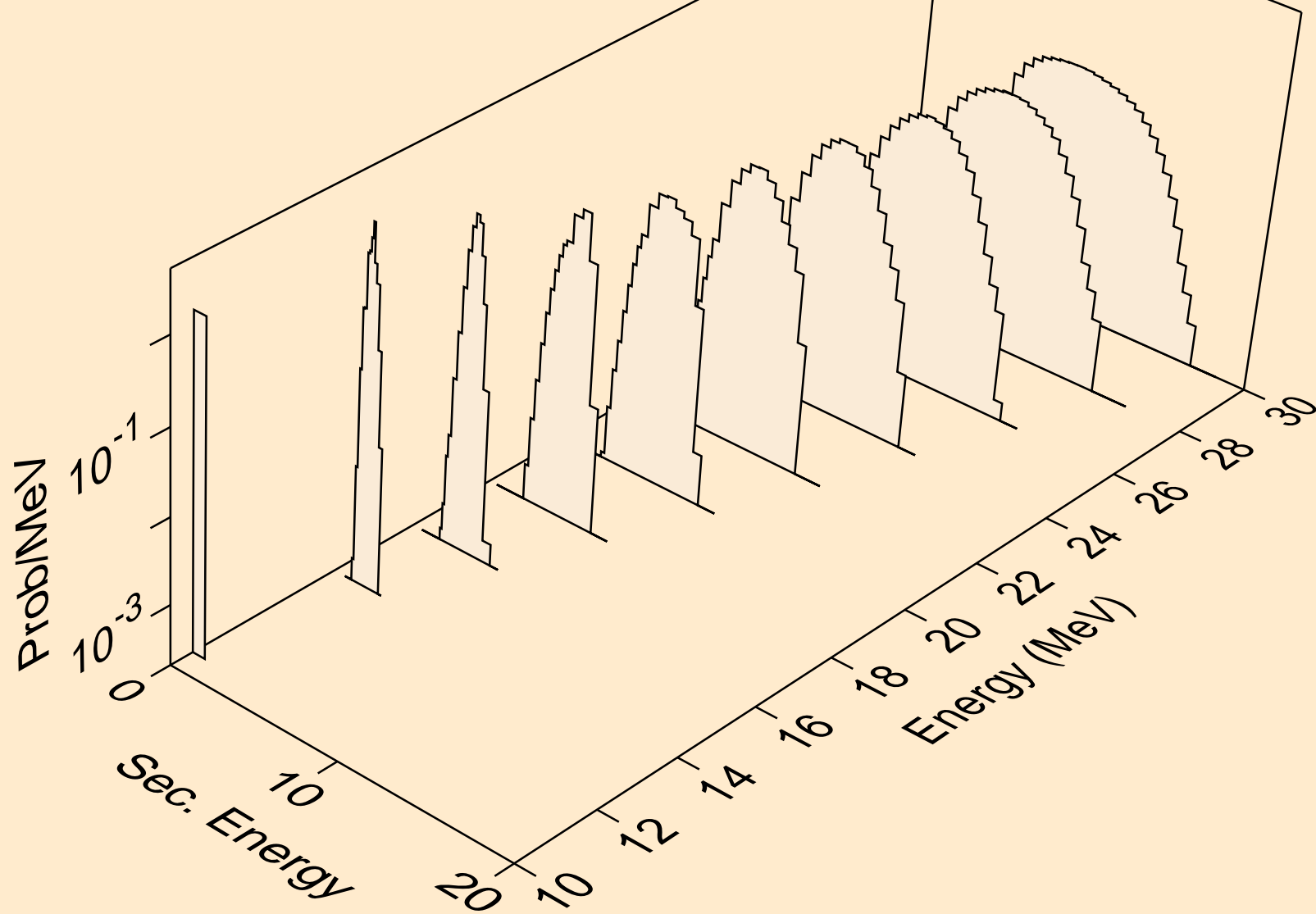
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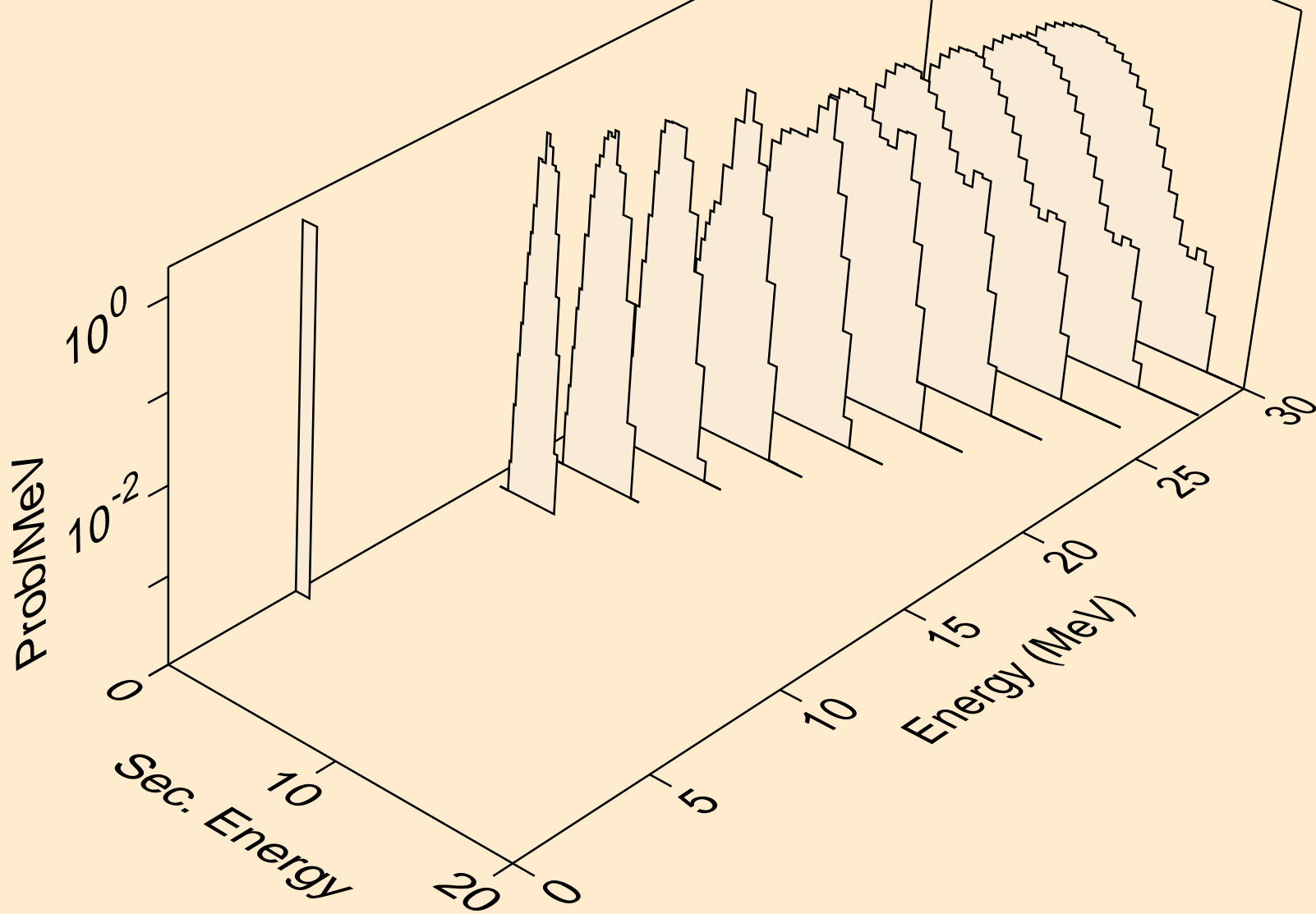
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deuterons from (n,d)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,pd)

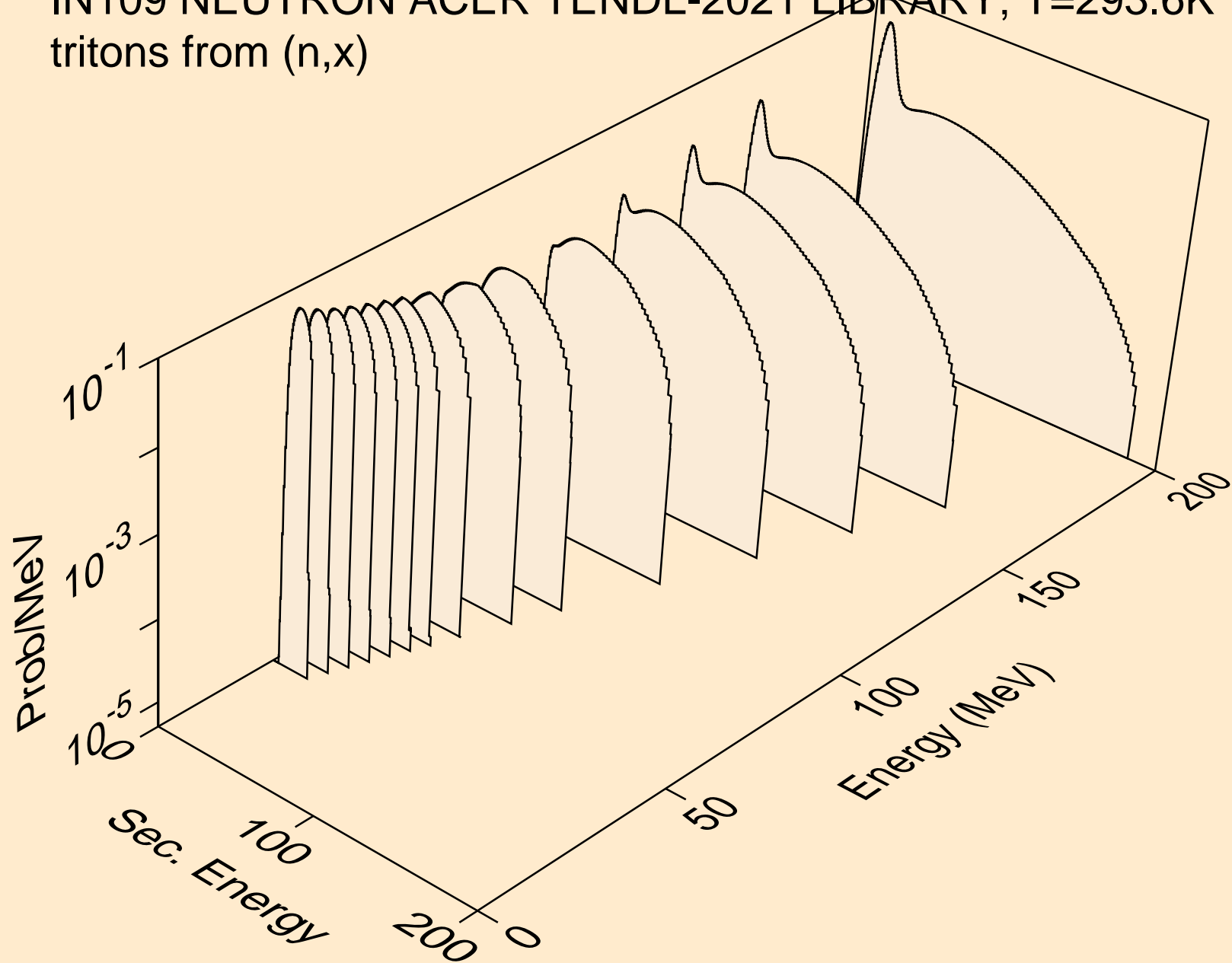


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deuterons from (n,da)

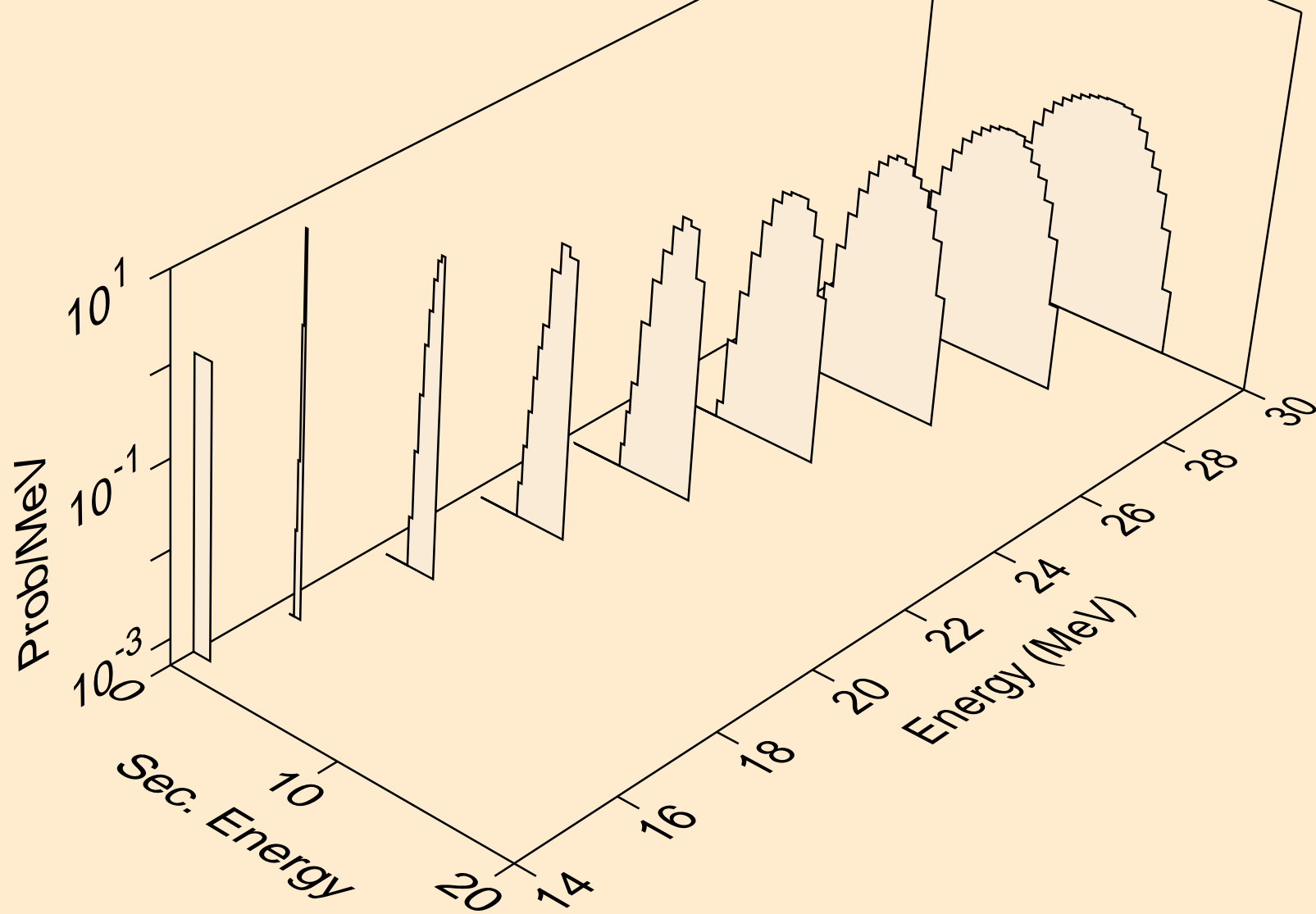




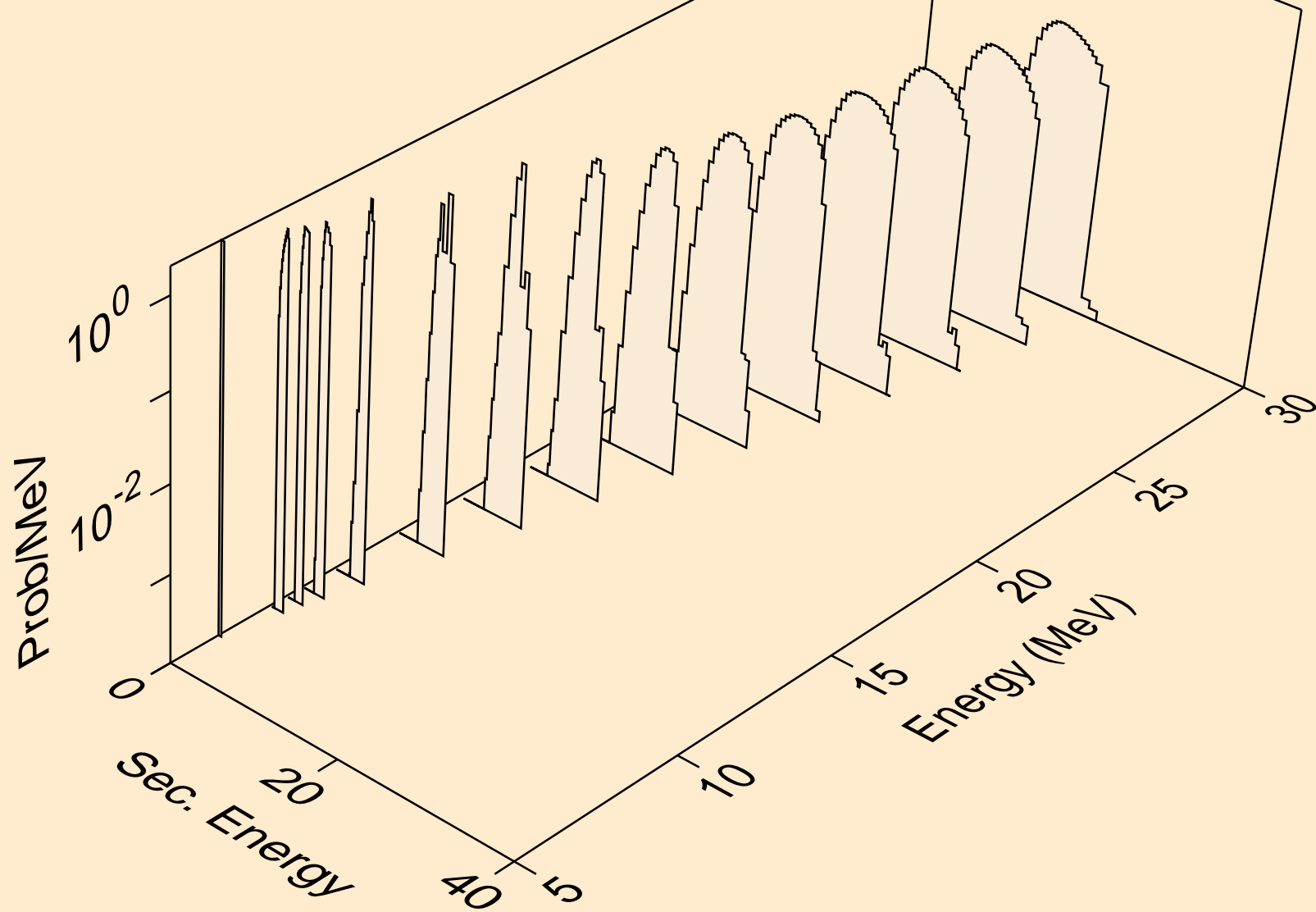
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tritons from (n,x)



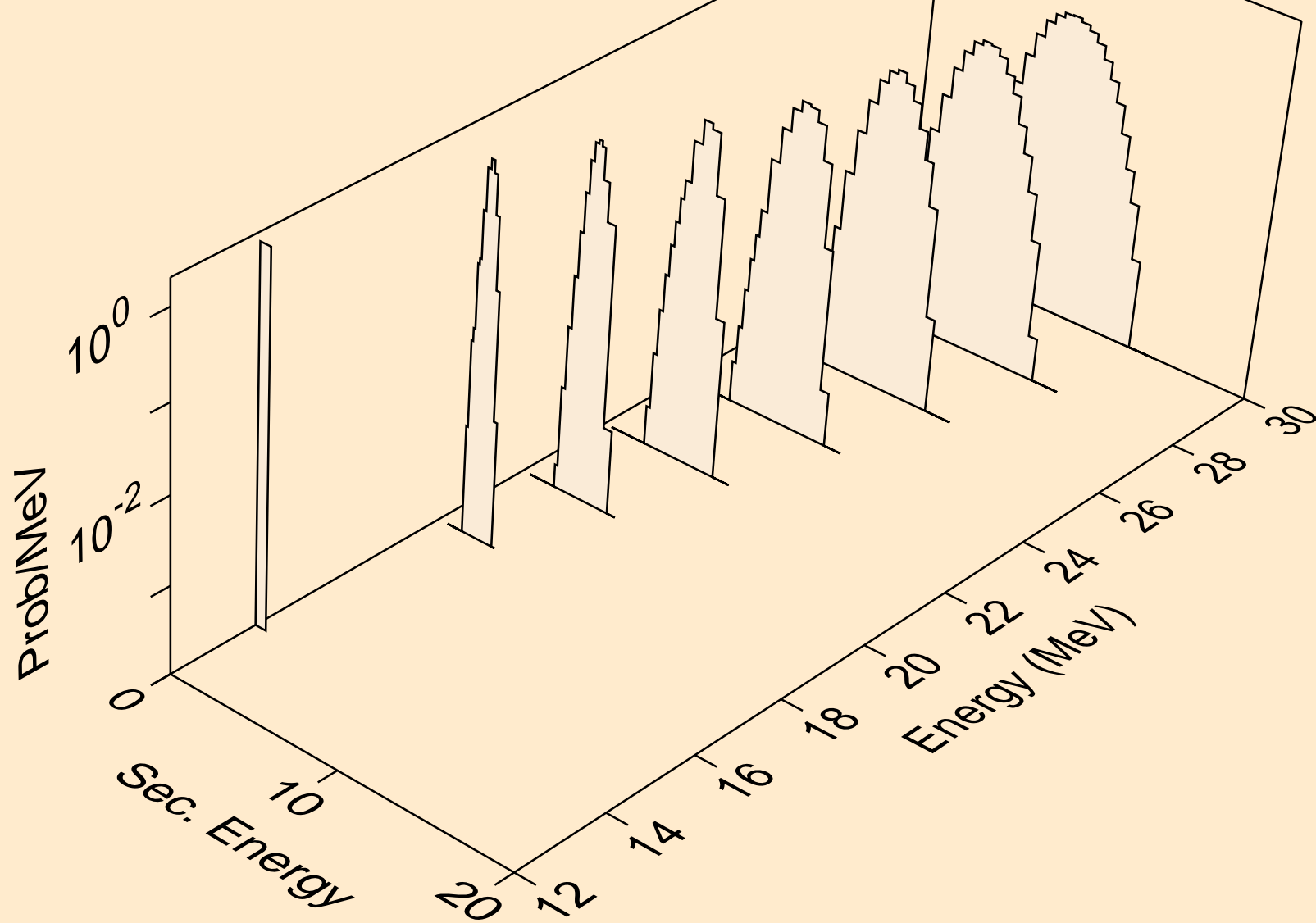
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tritons from (n,n\*)t



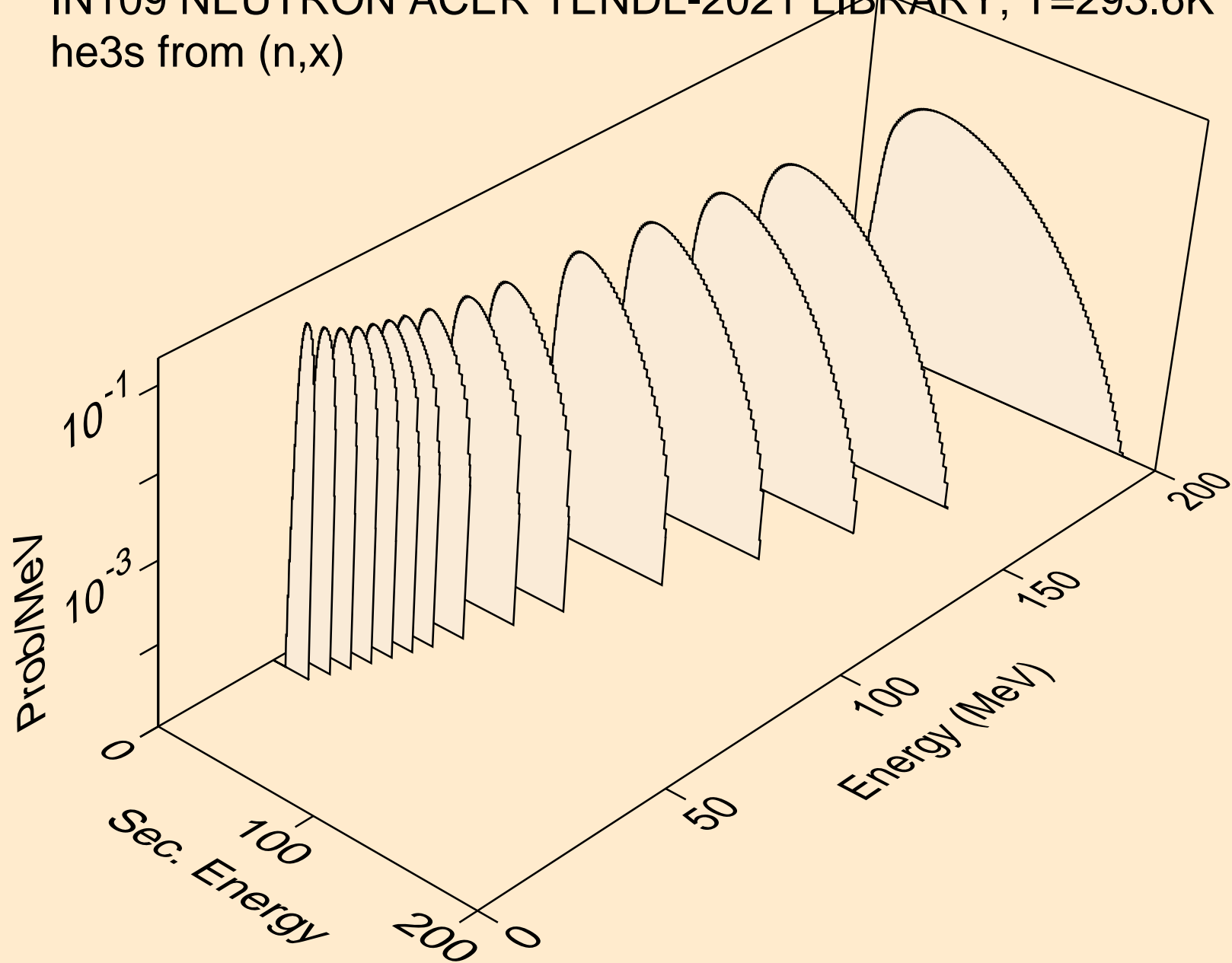
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tritons from (n,t)



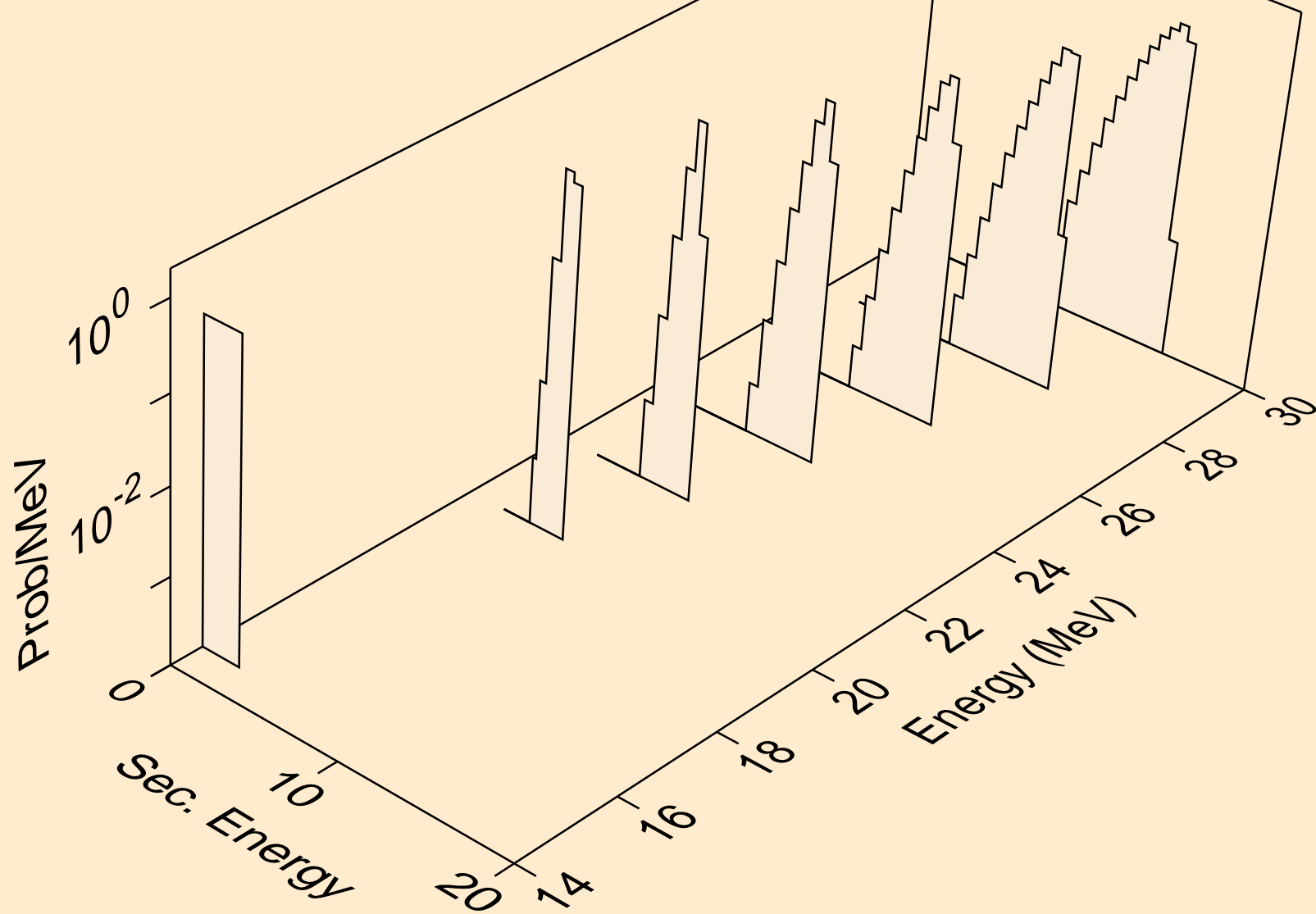
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tritons from (n,pt)



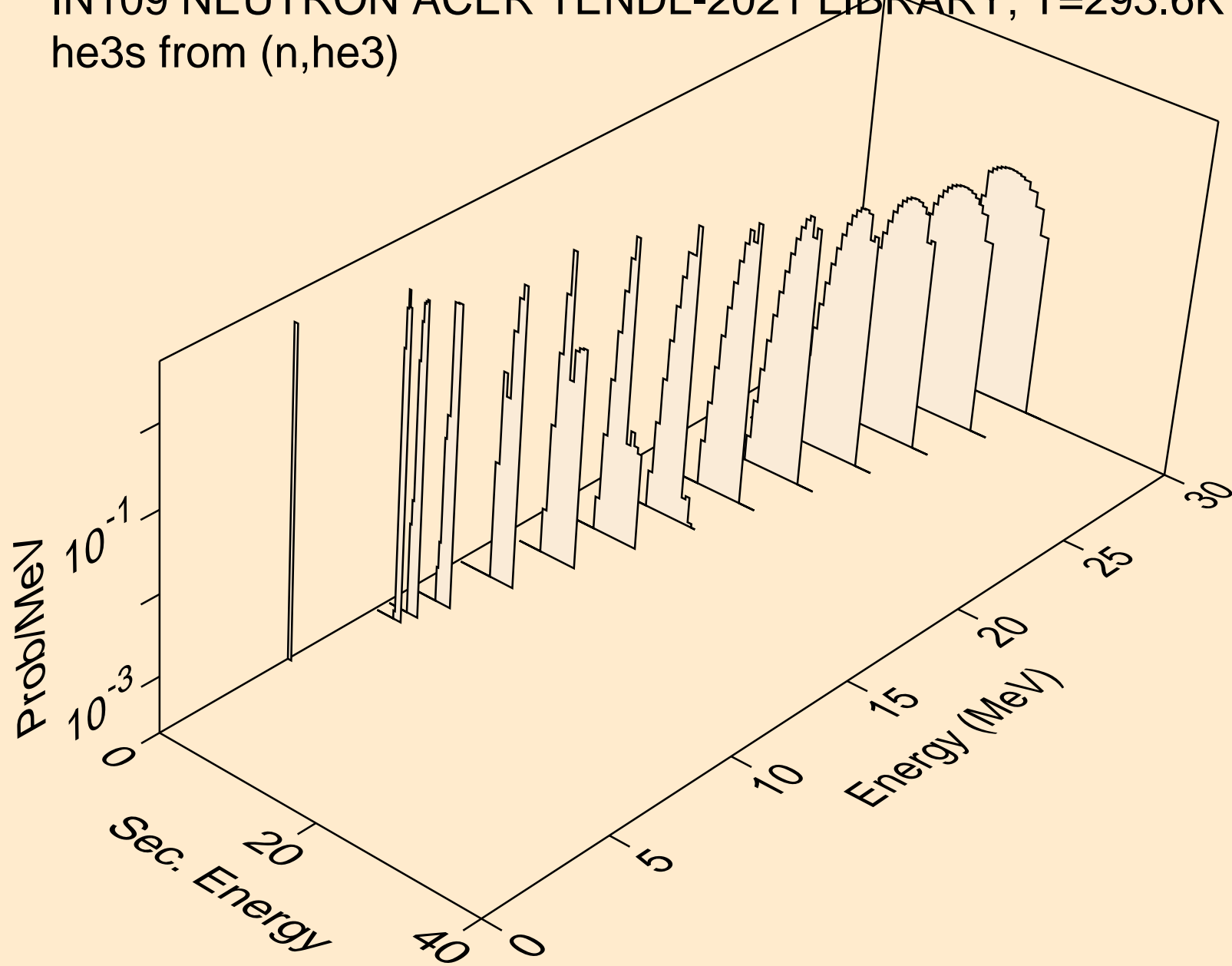
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



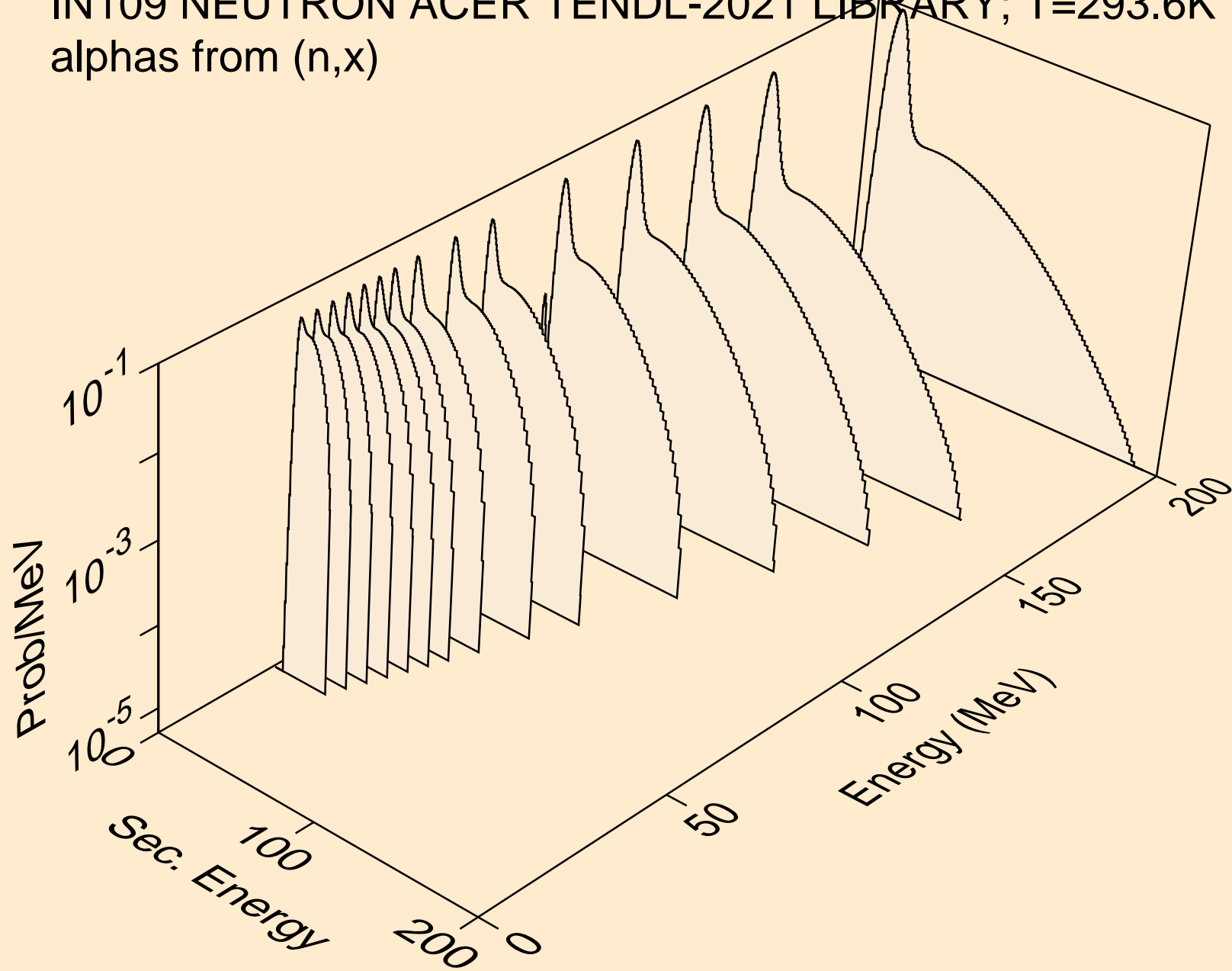
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)

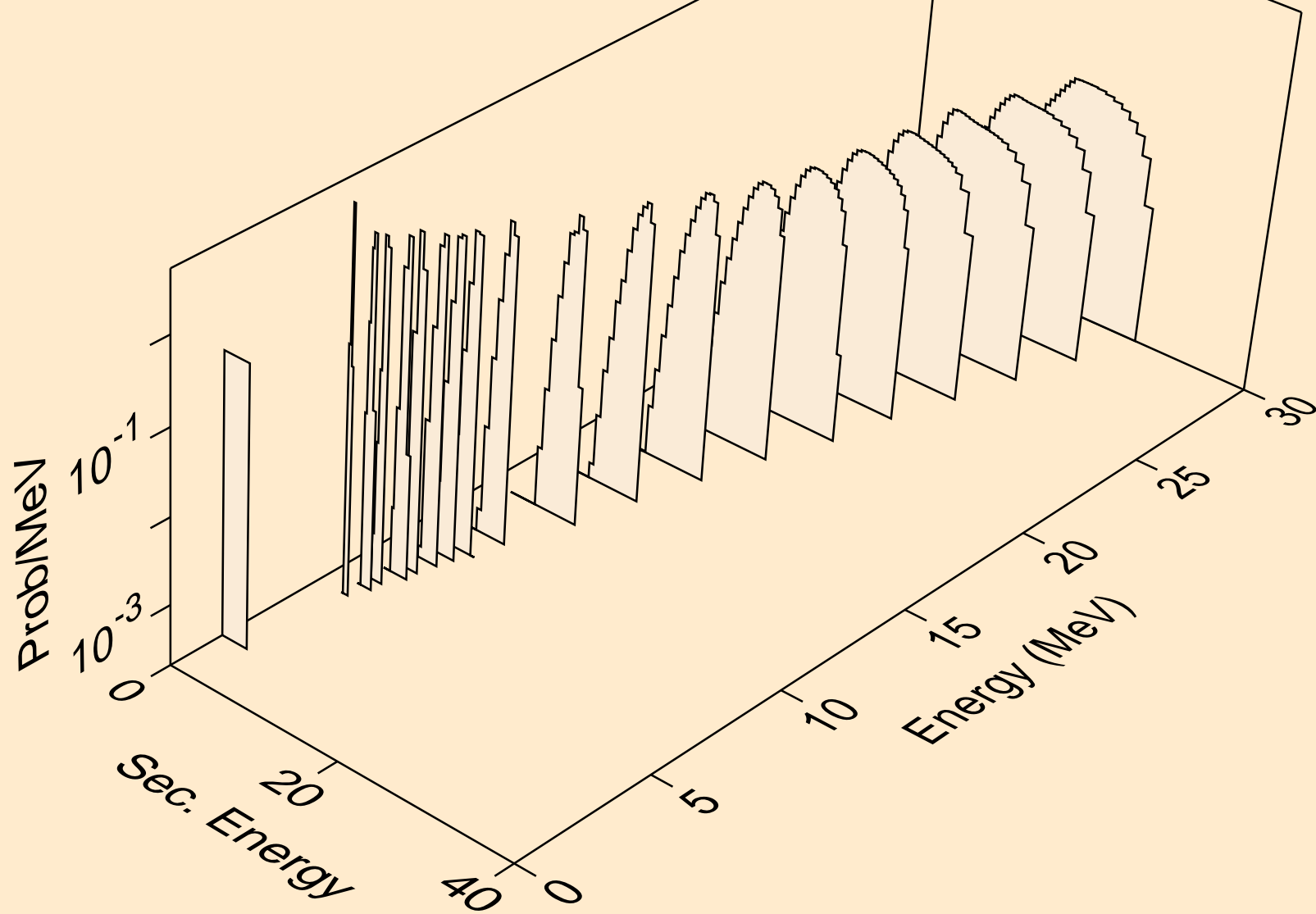


IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)

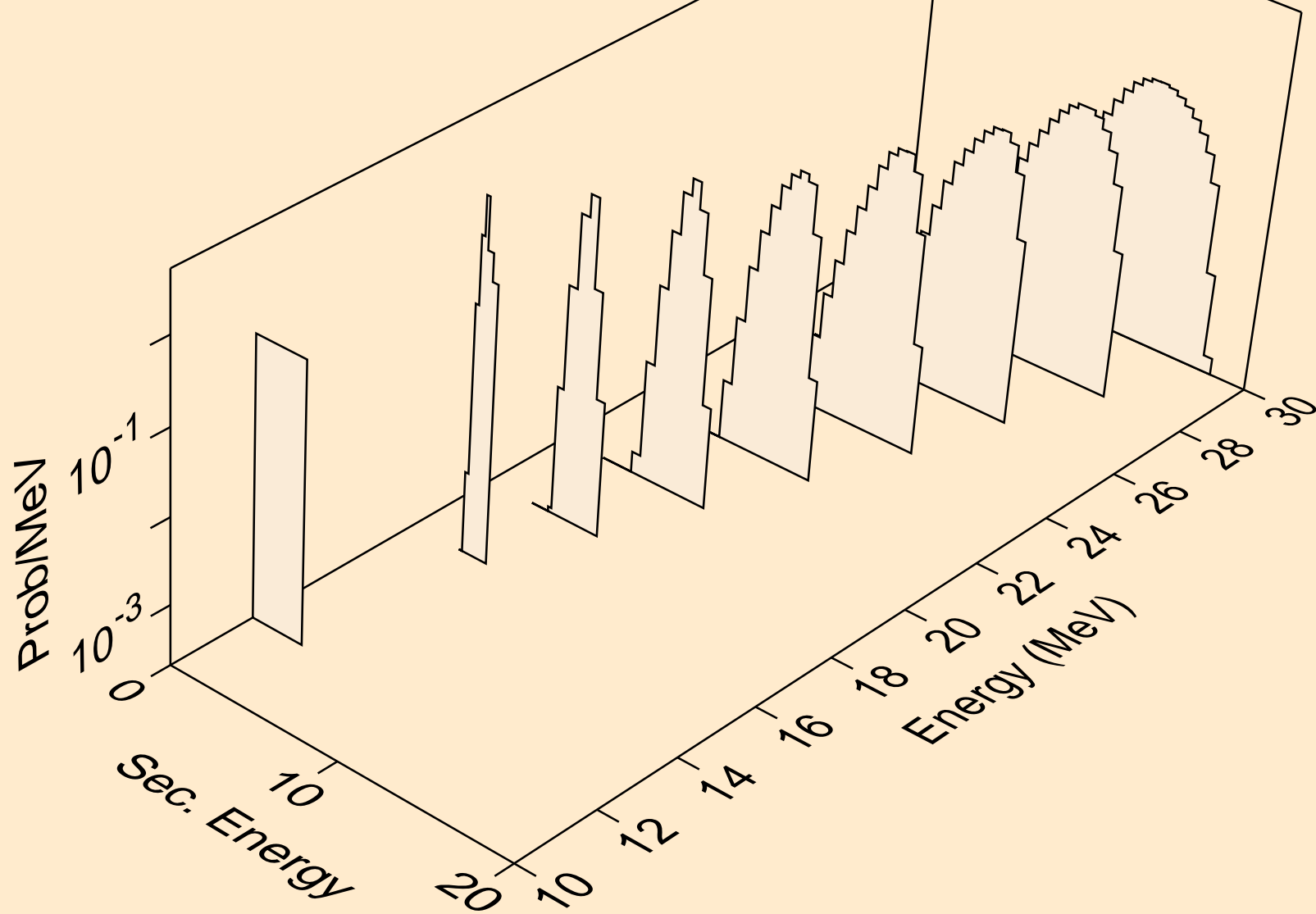




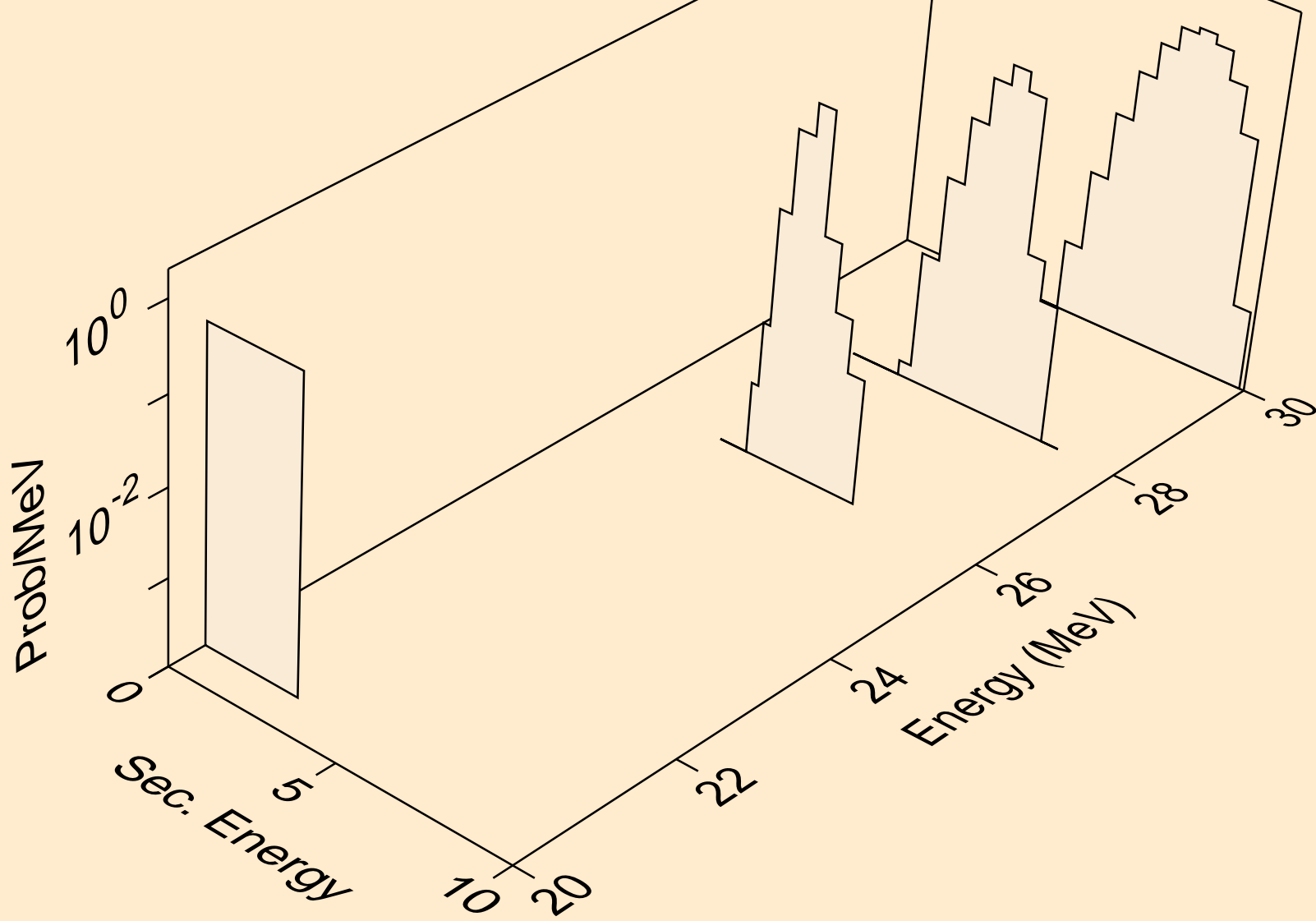
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



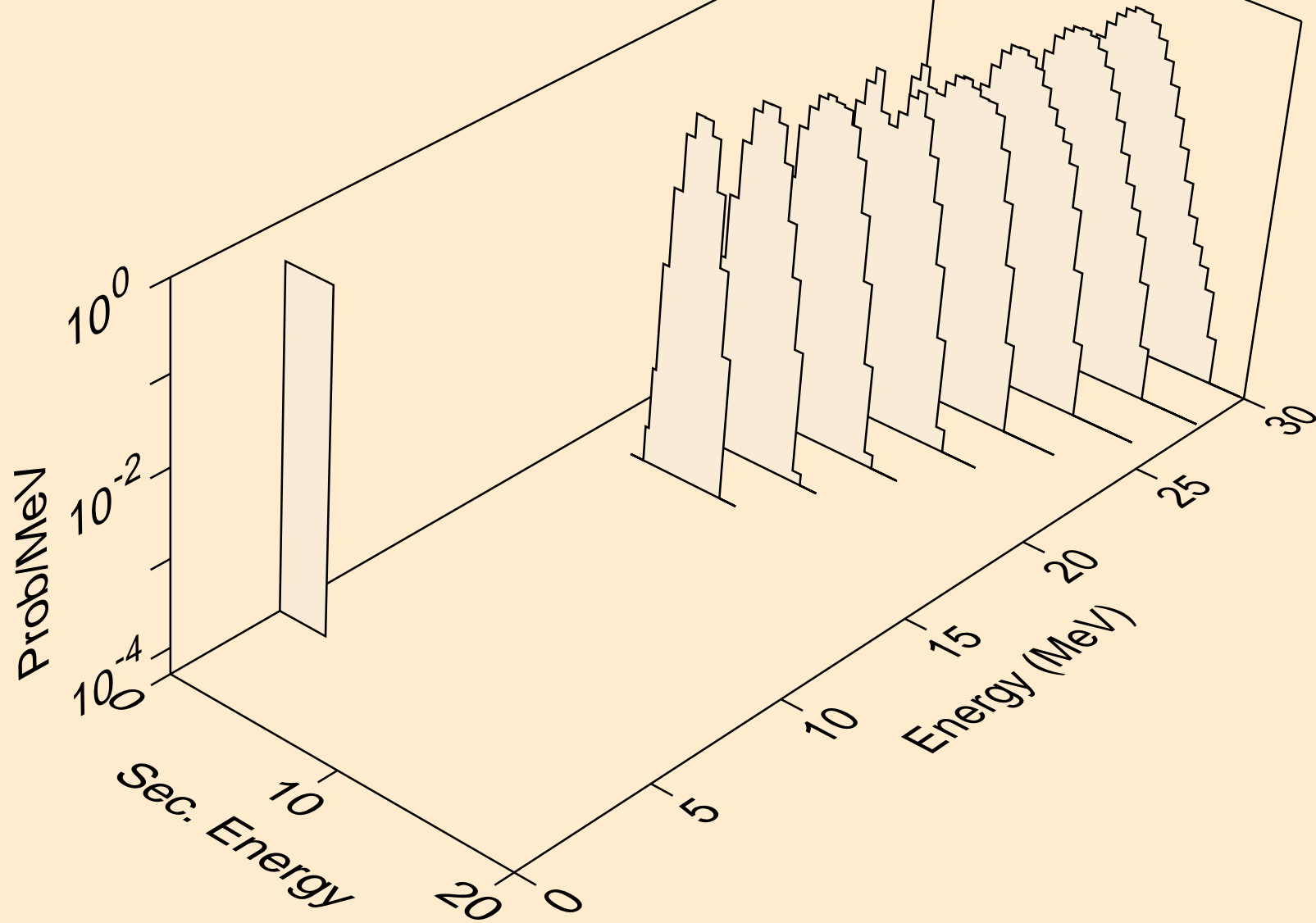
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



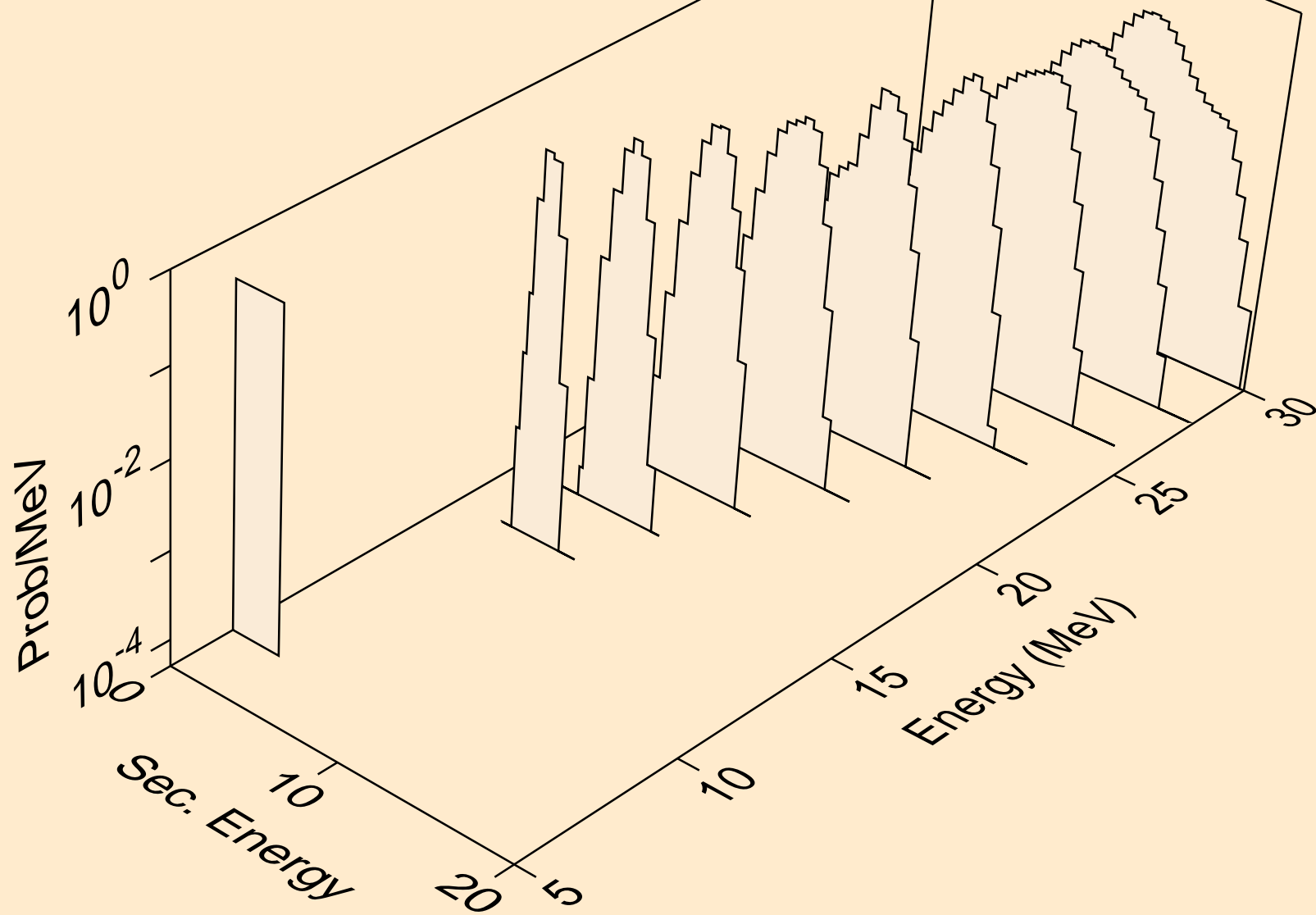
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alphas from (n,3n)a



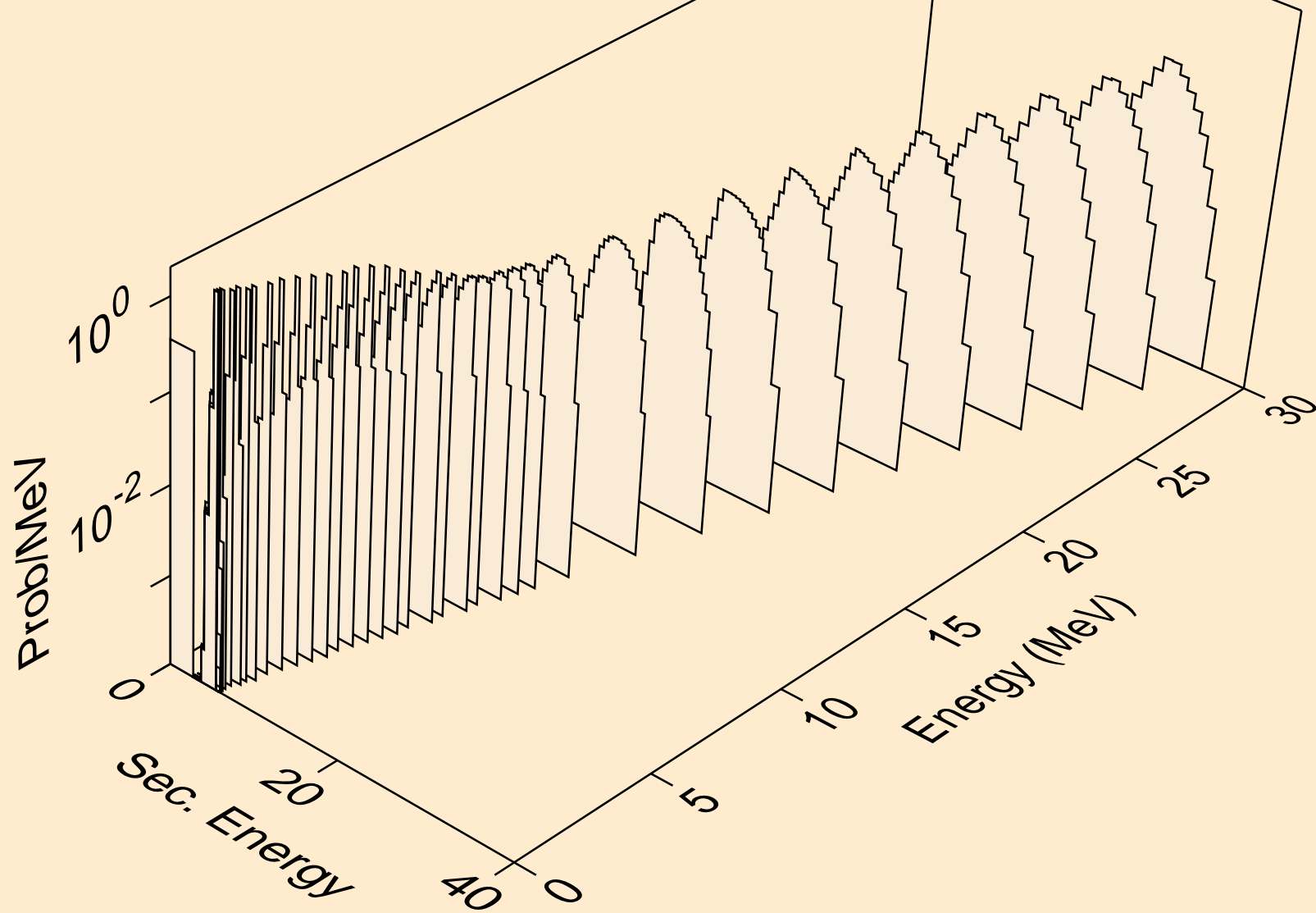
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



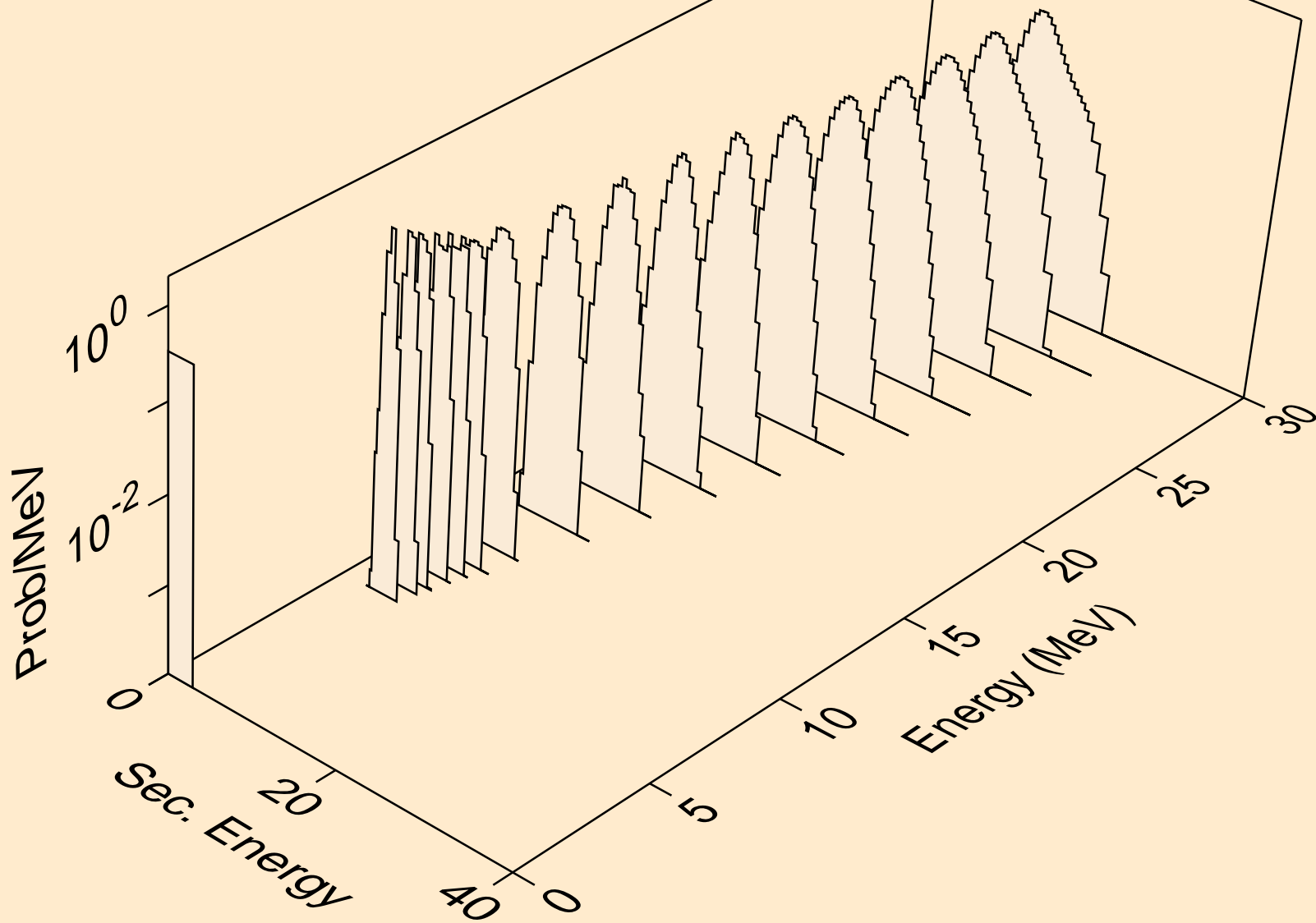
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)



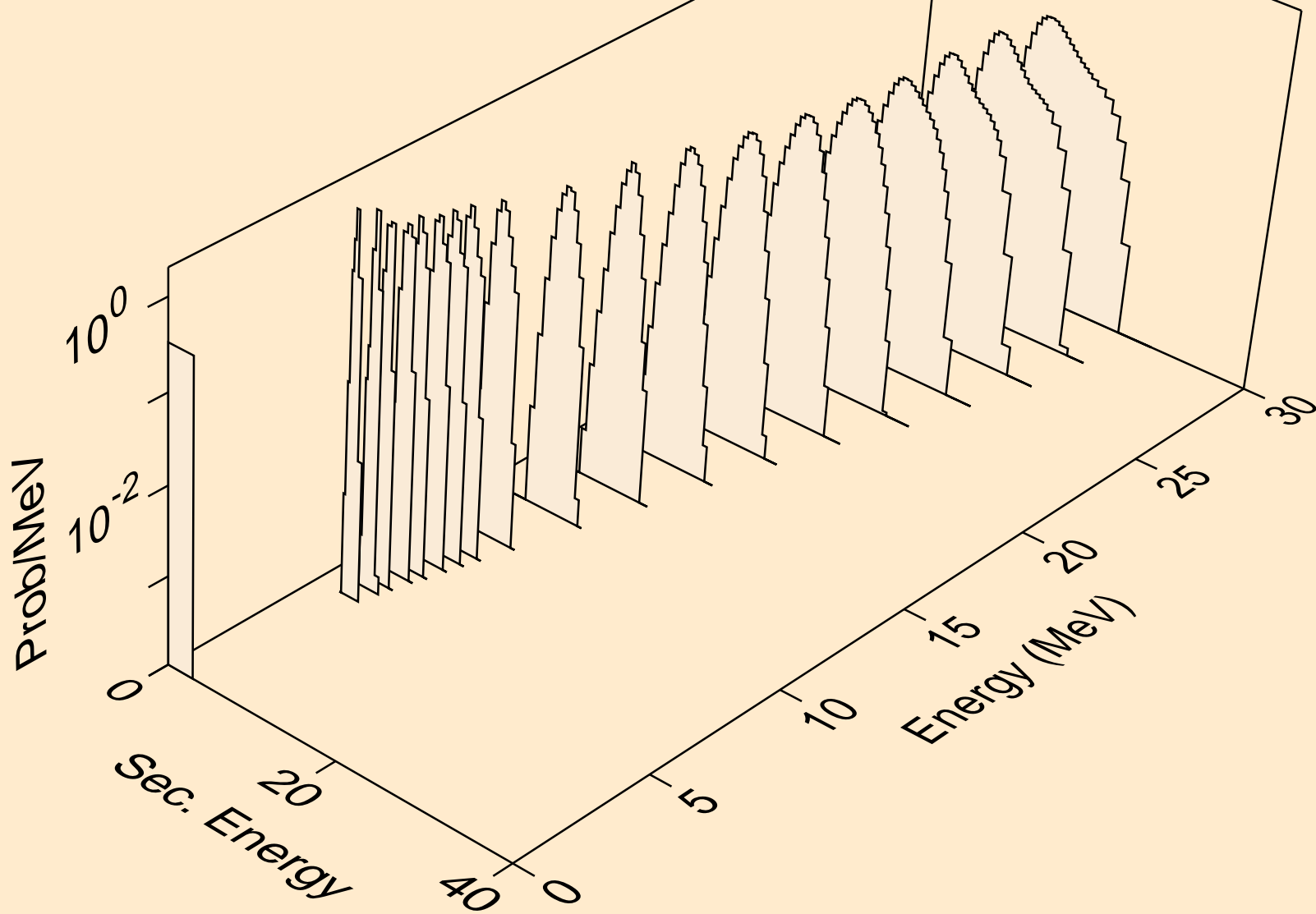
IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)





IN109 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

