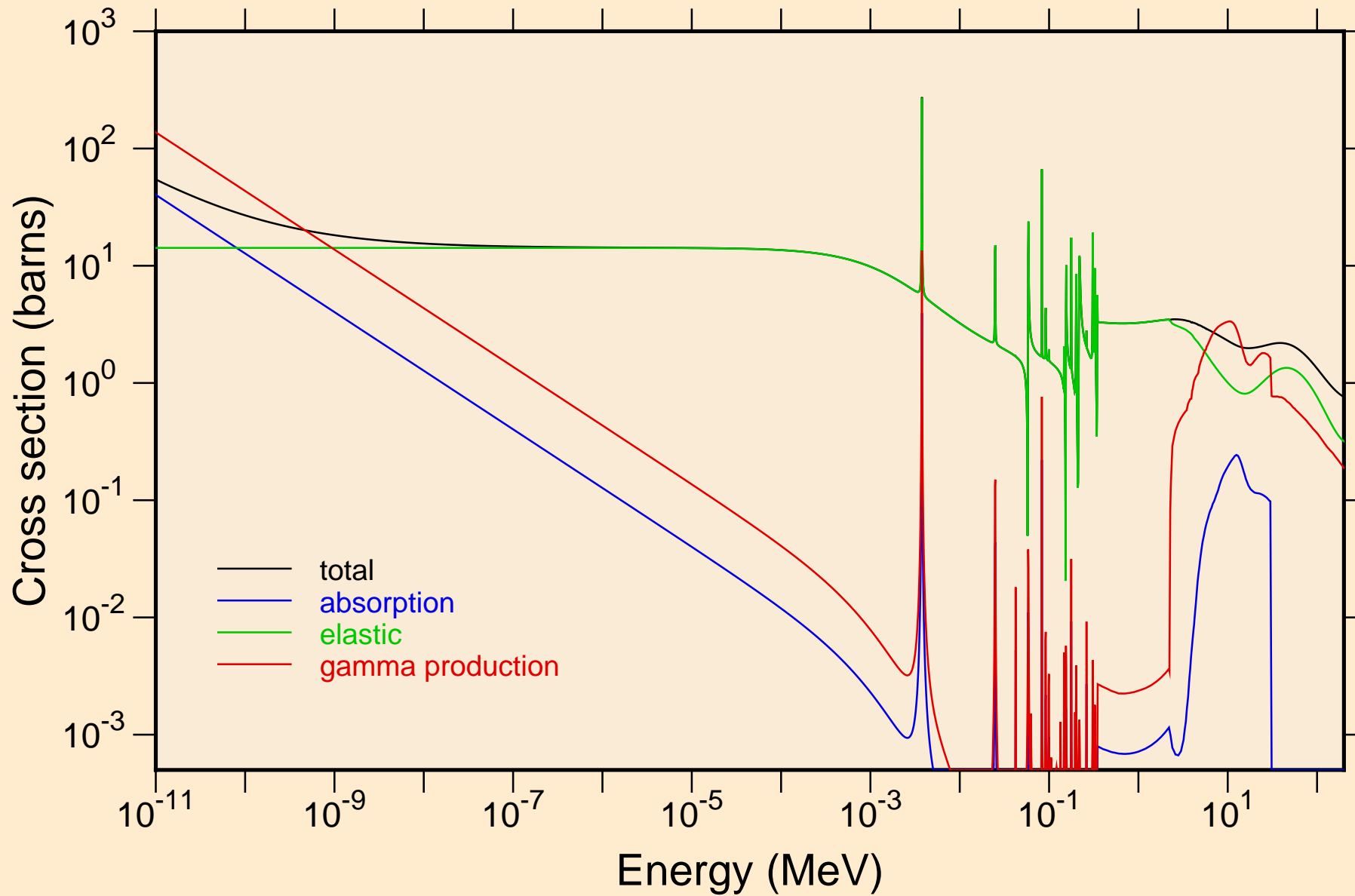
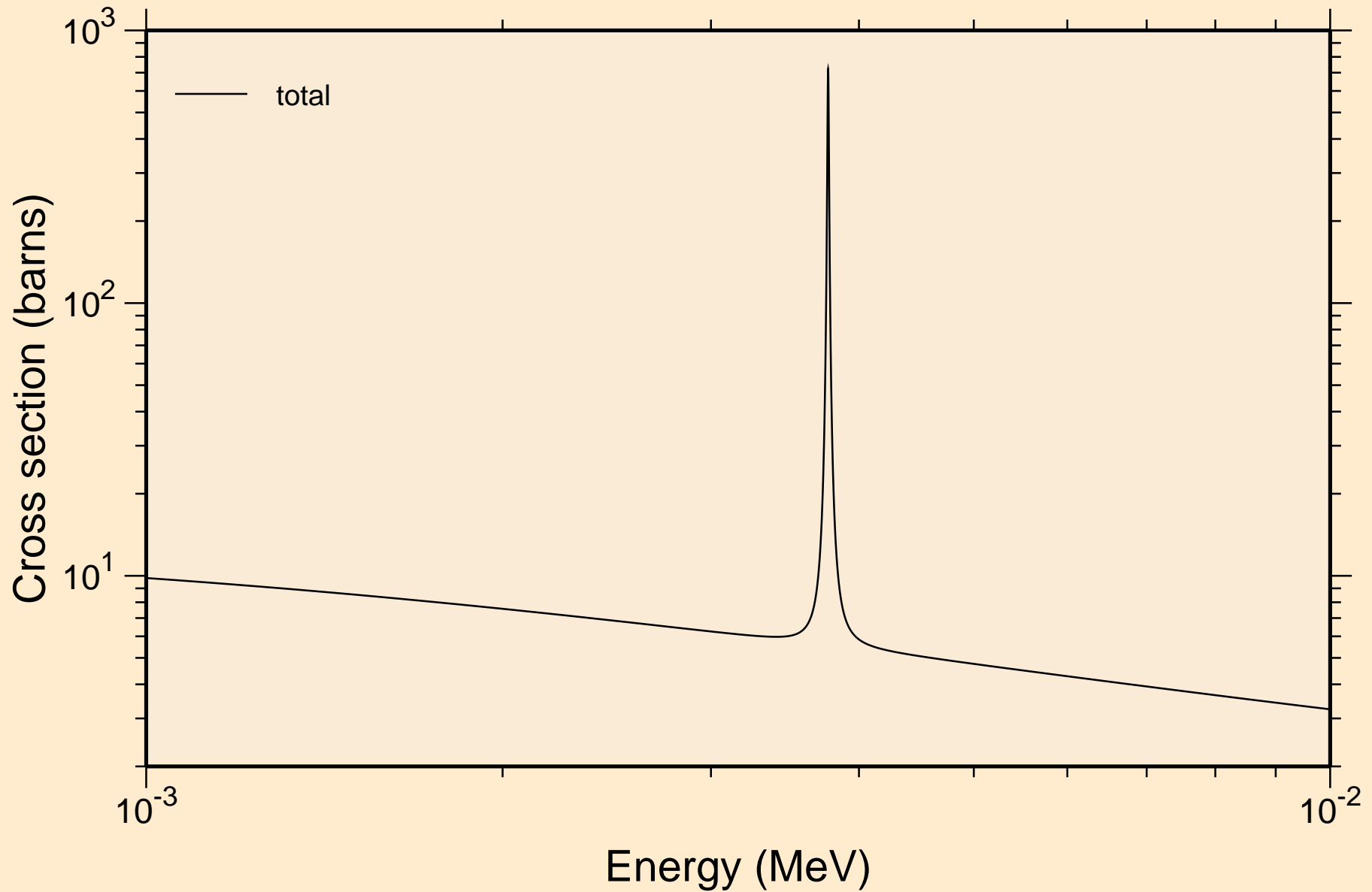


# AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

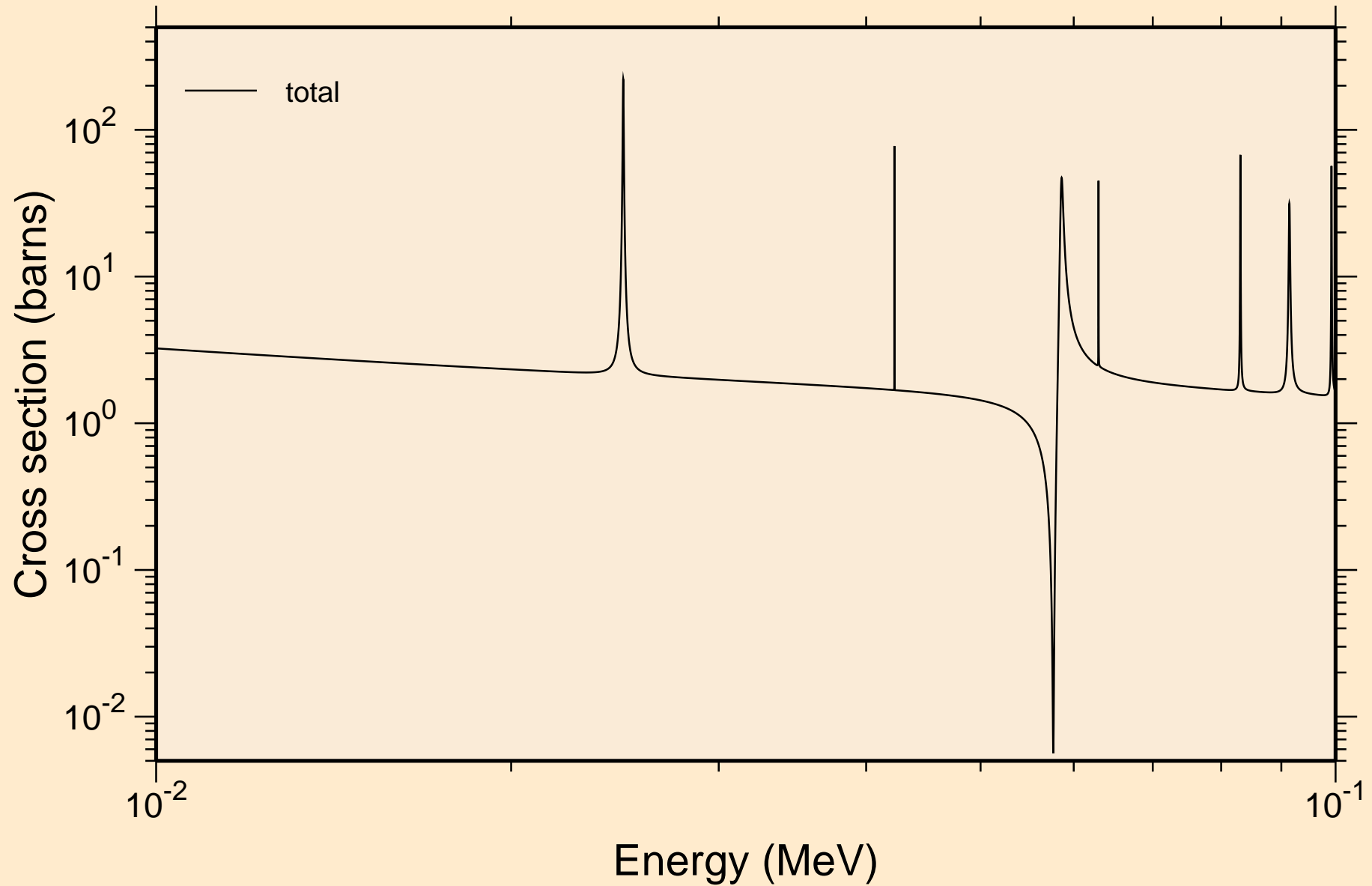
## Principal cross sections



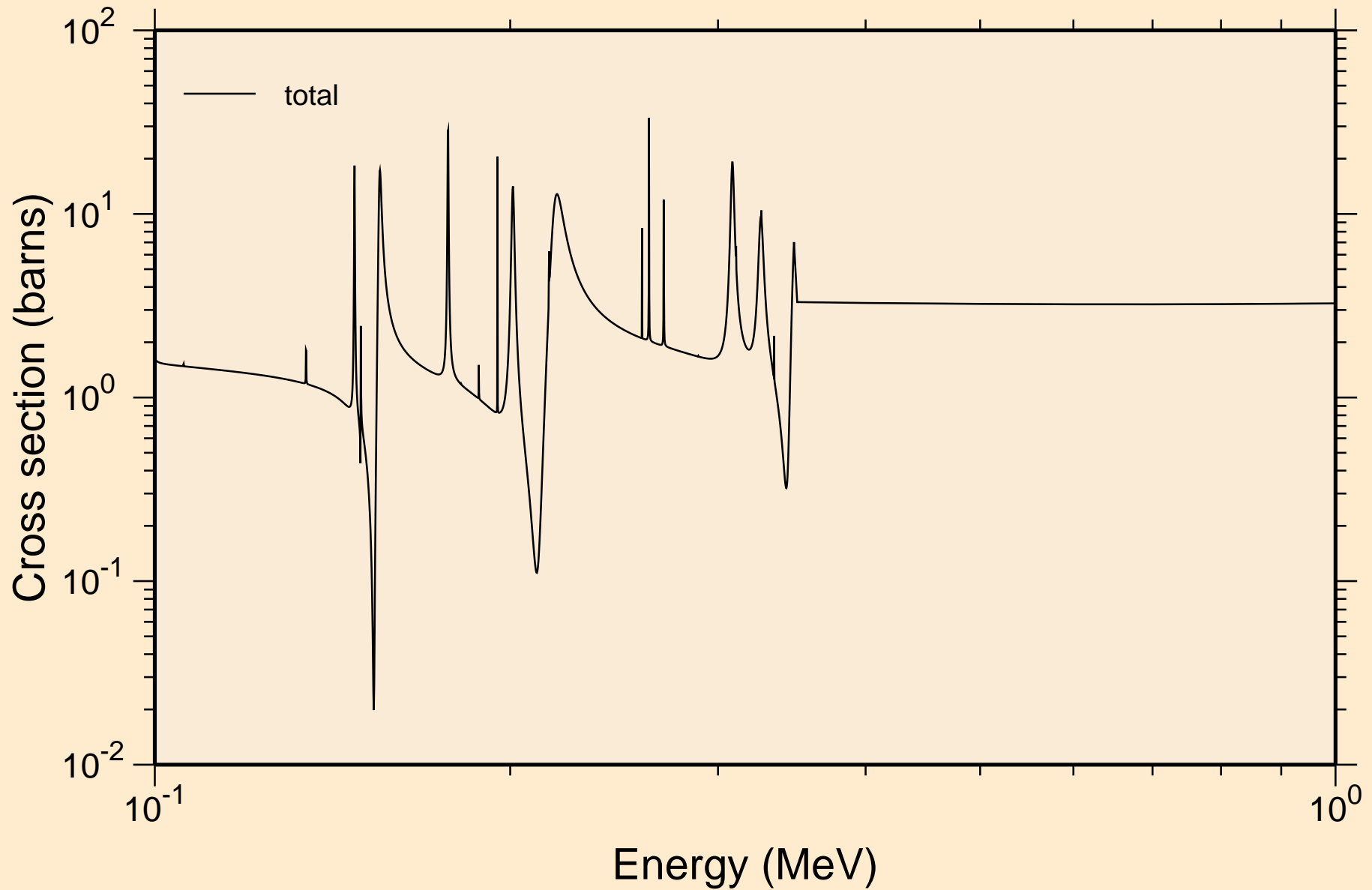
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



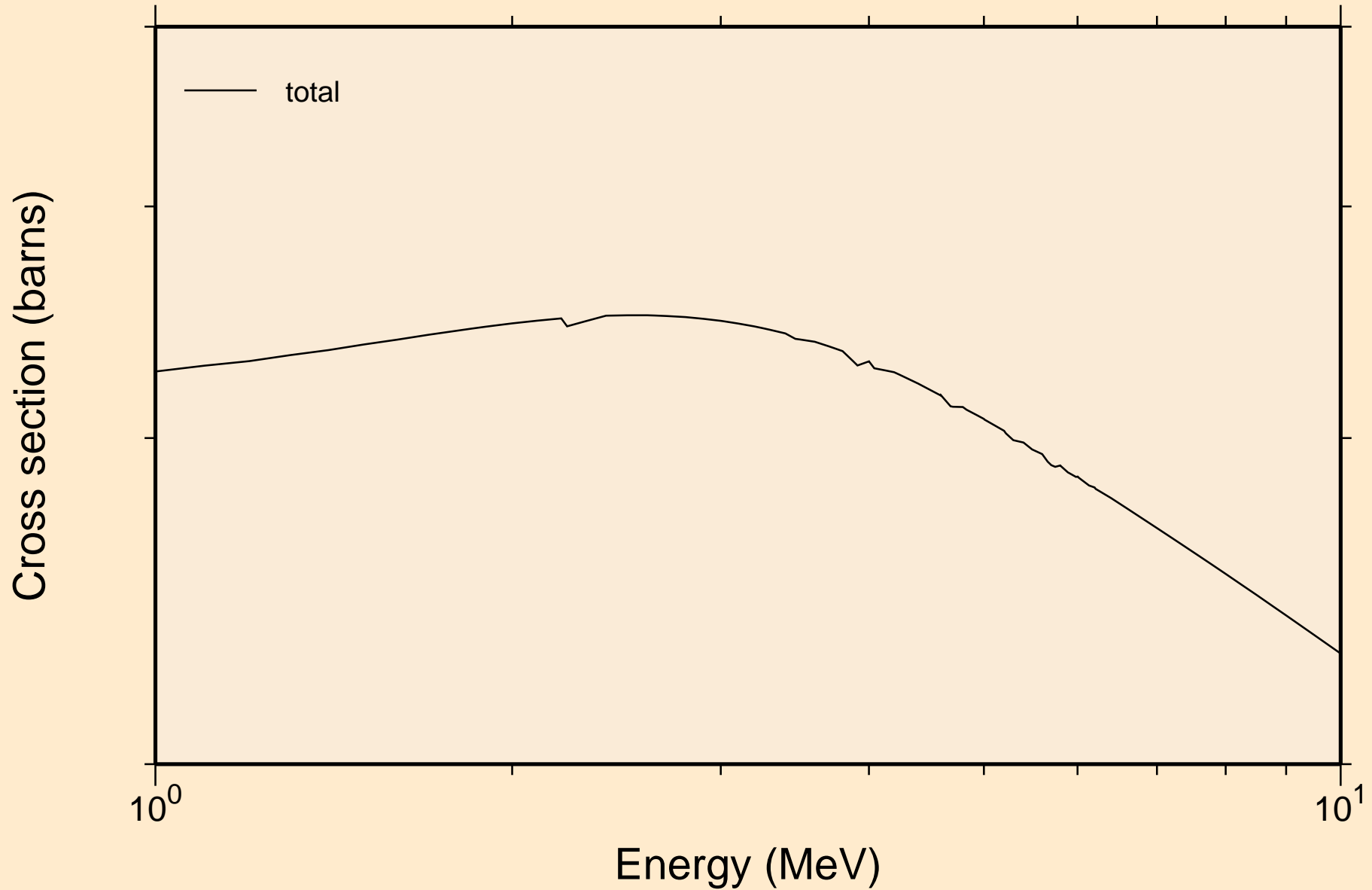
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resonance total cross section



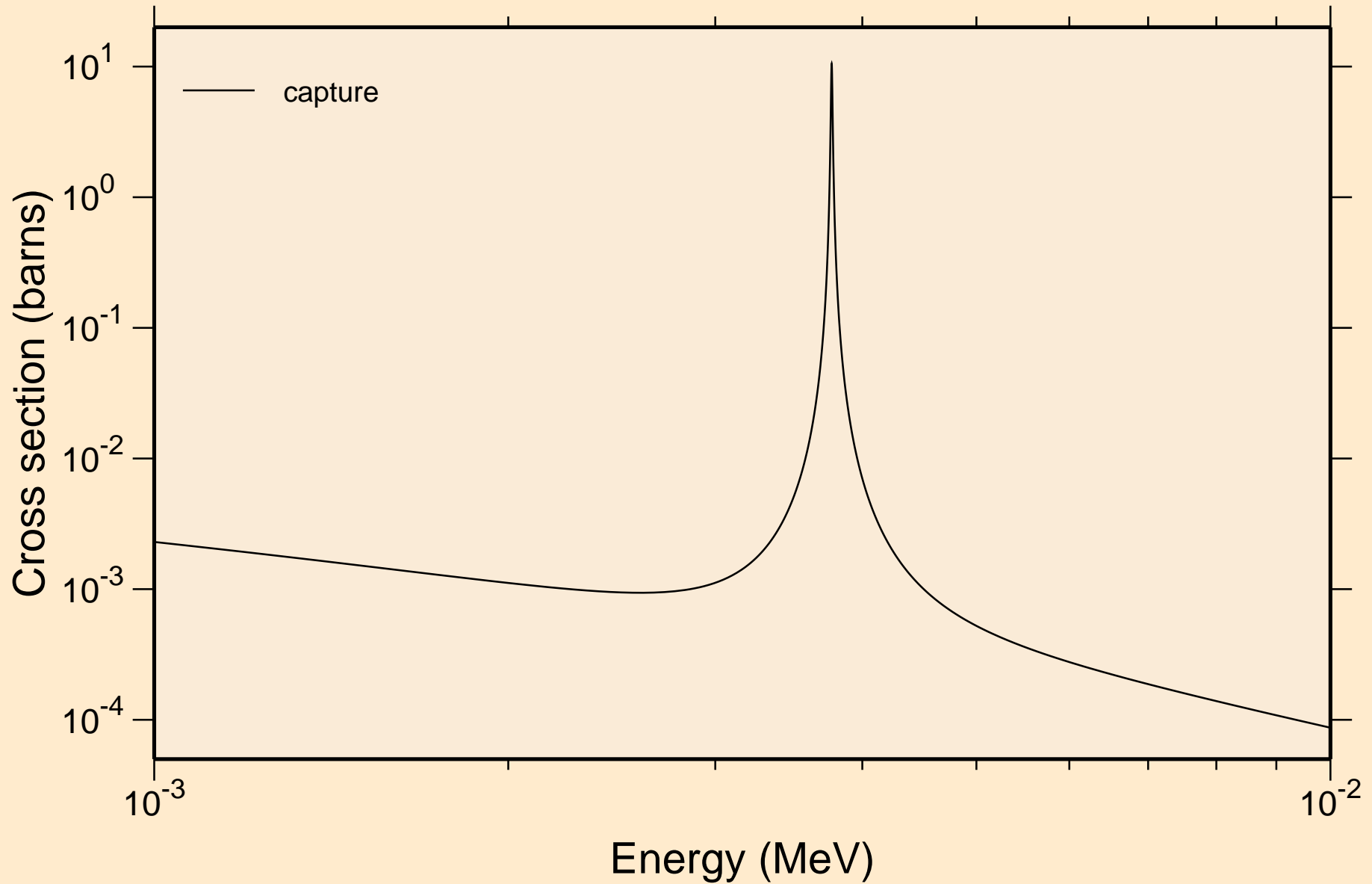
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resonance total cross section



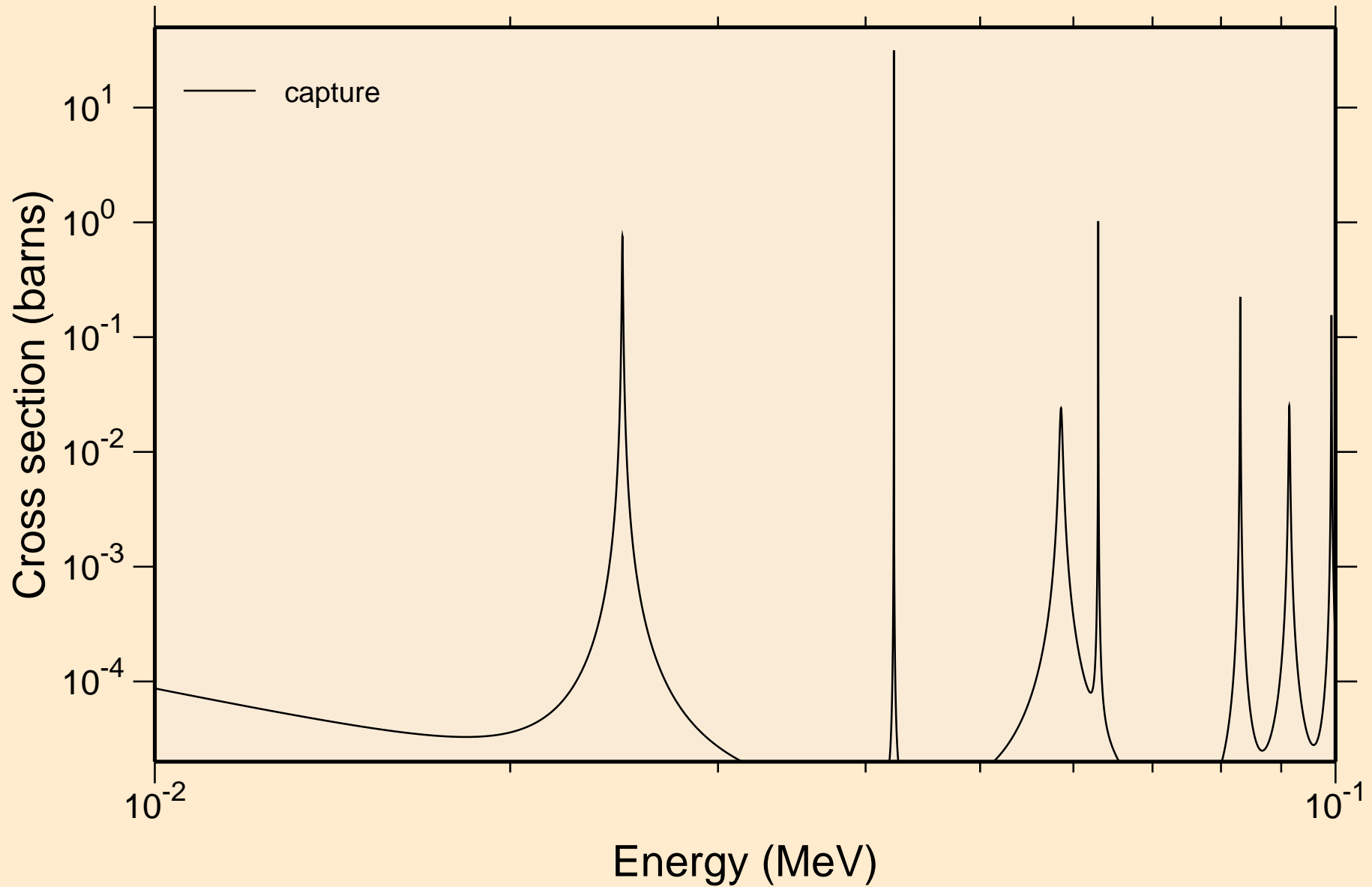
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



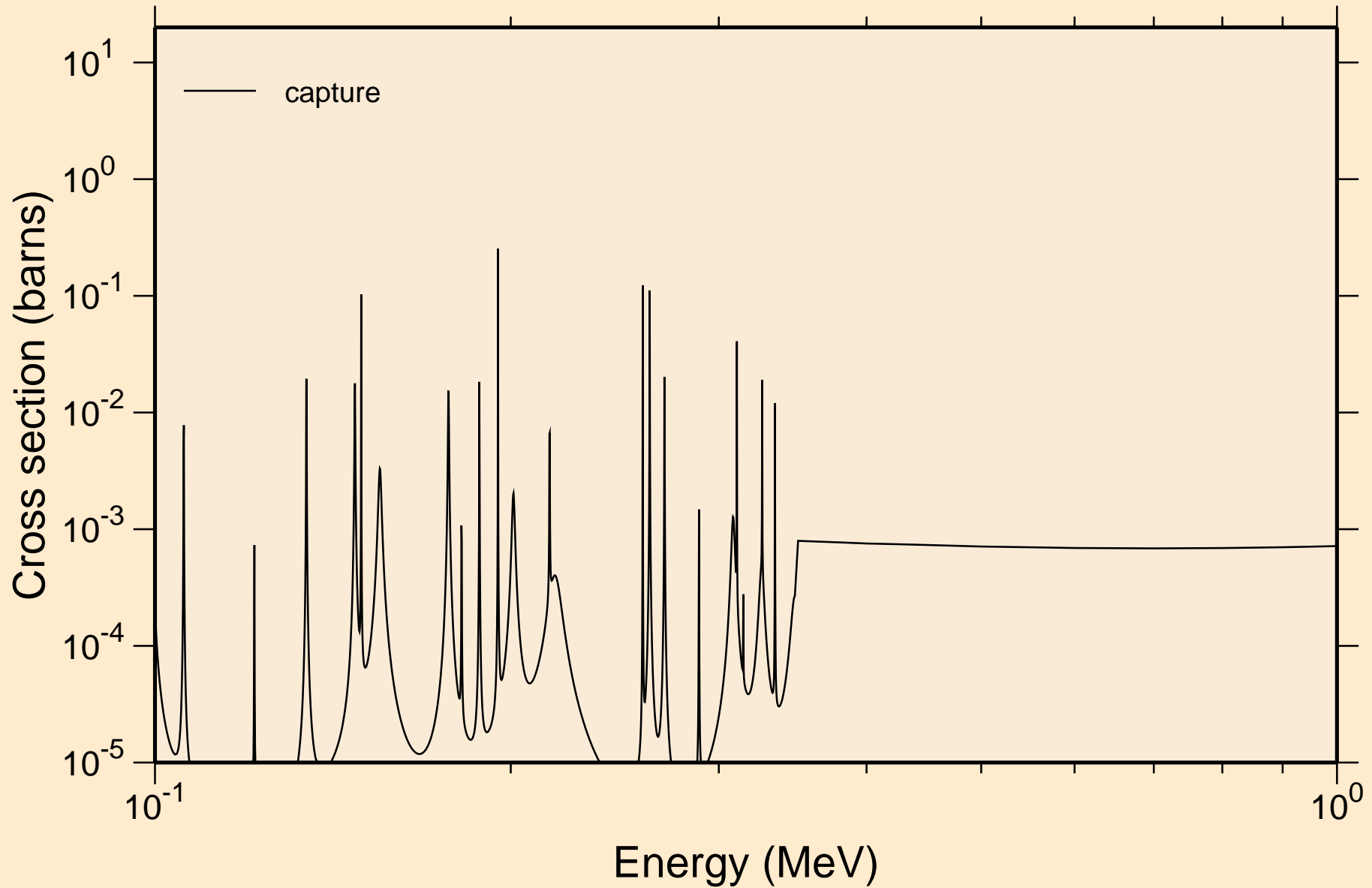
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

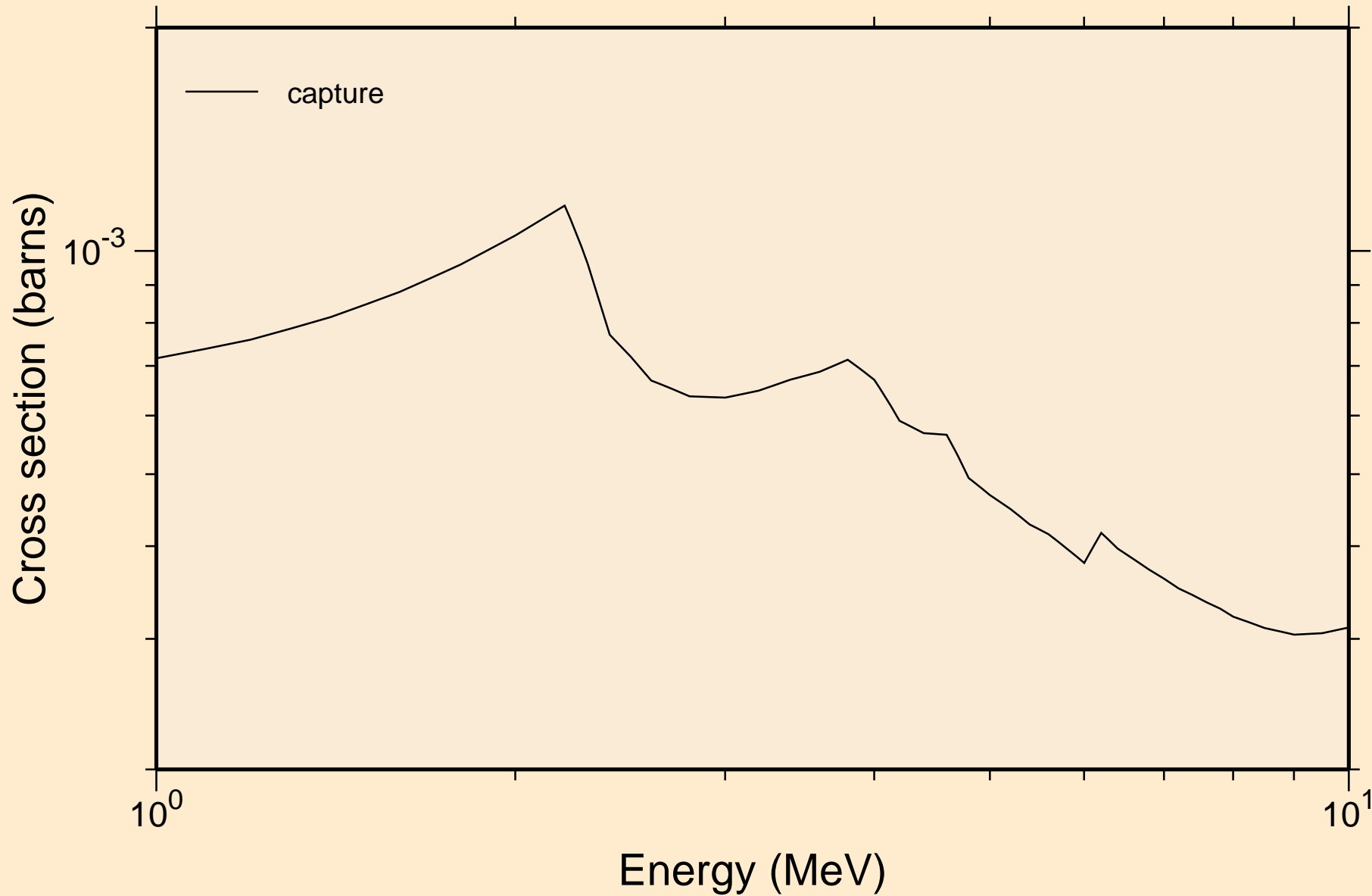


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resonance absorption cross sections

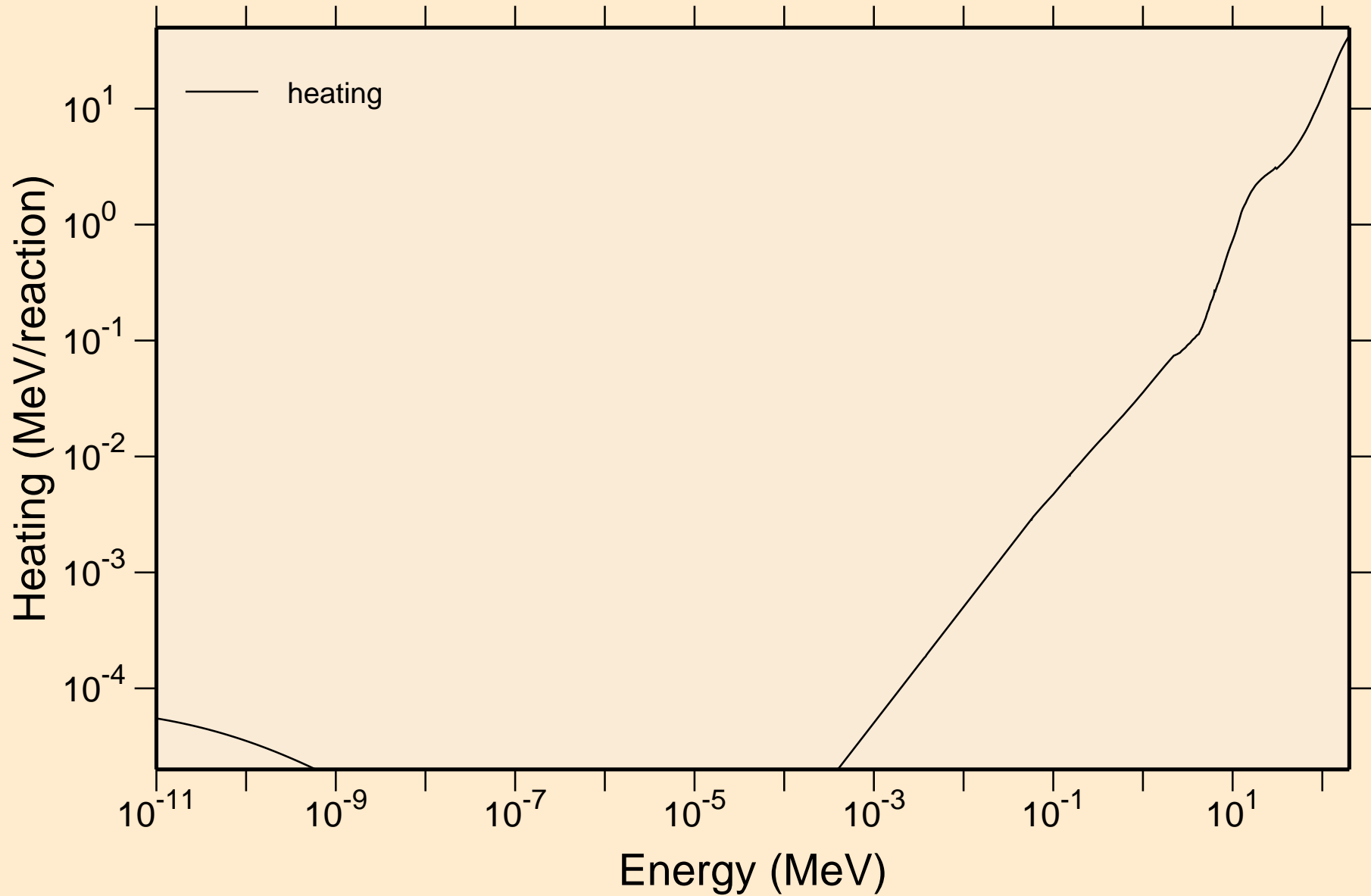




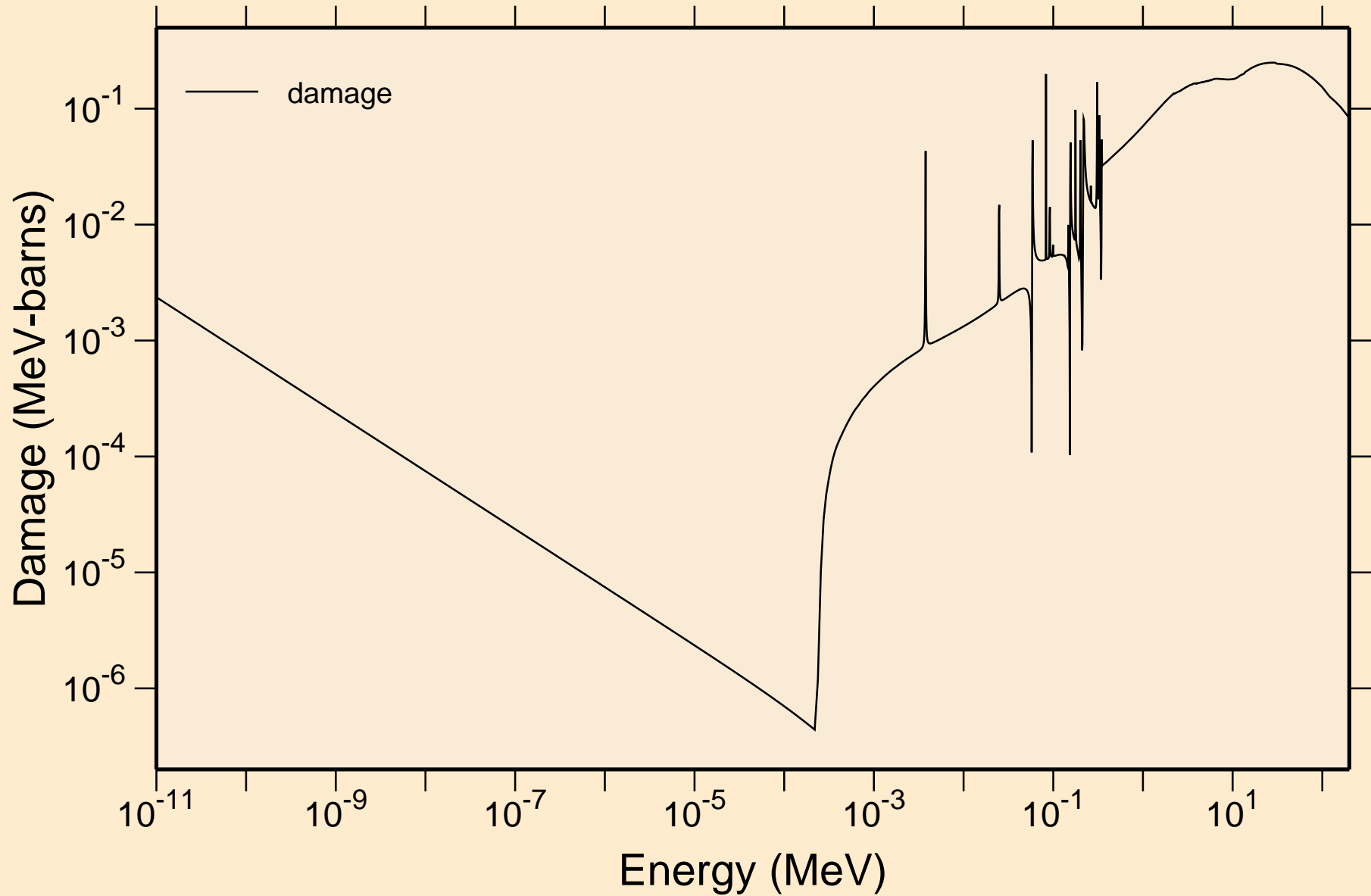
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resonance absorption cross sections



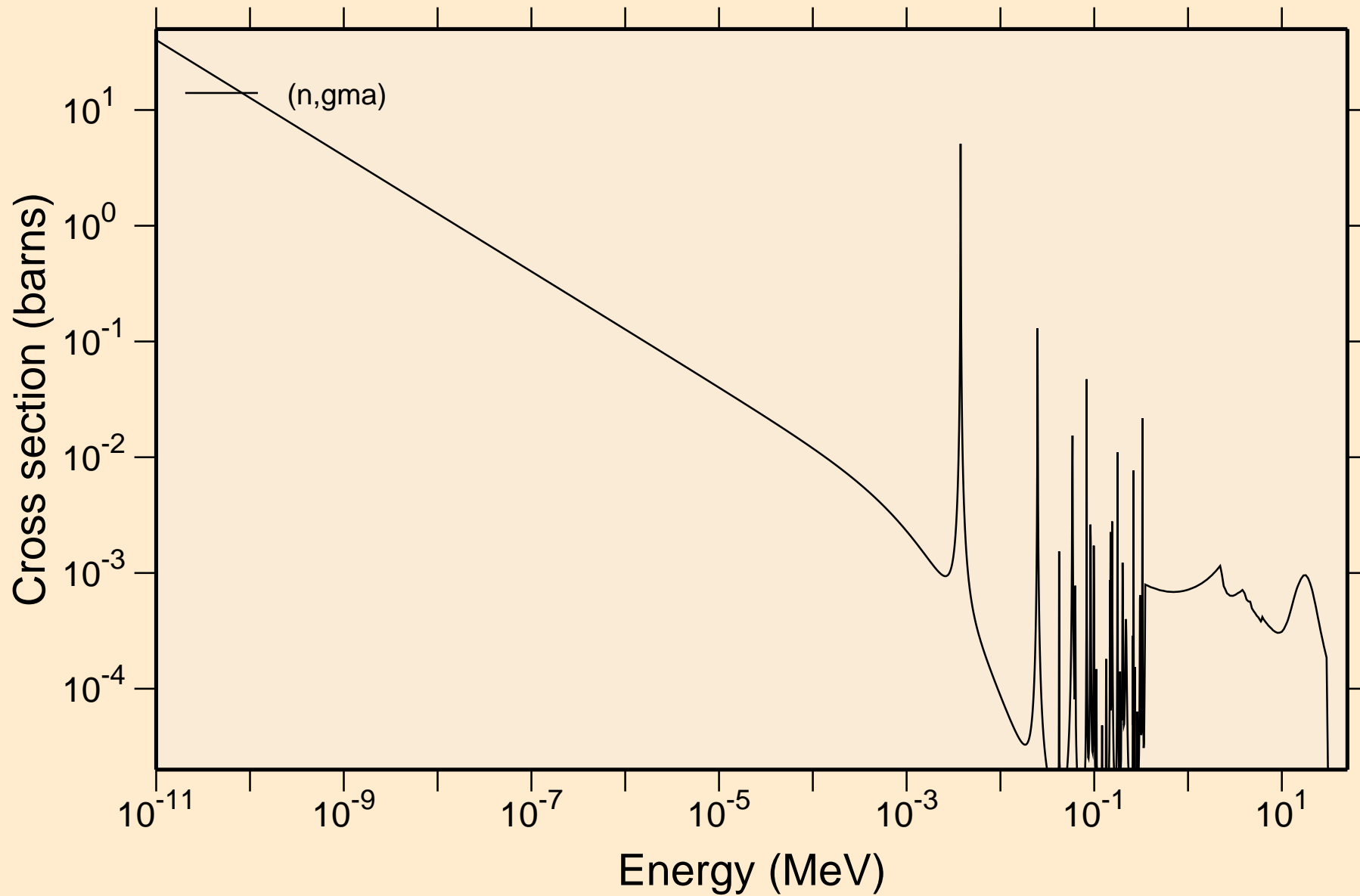
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

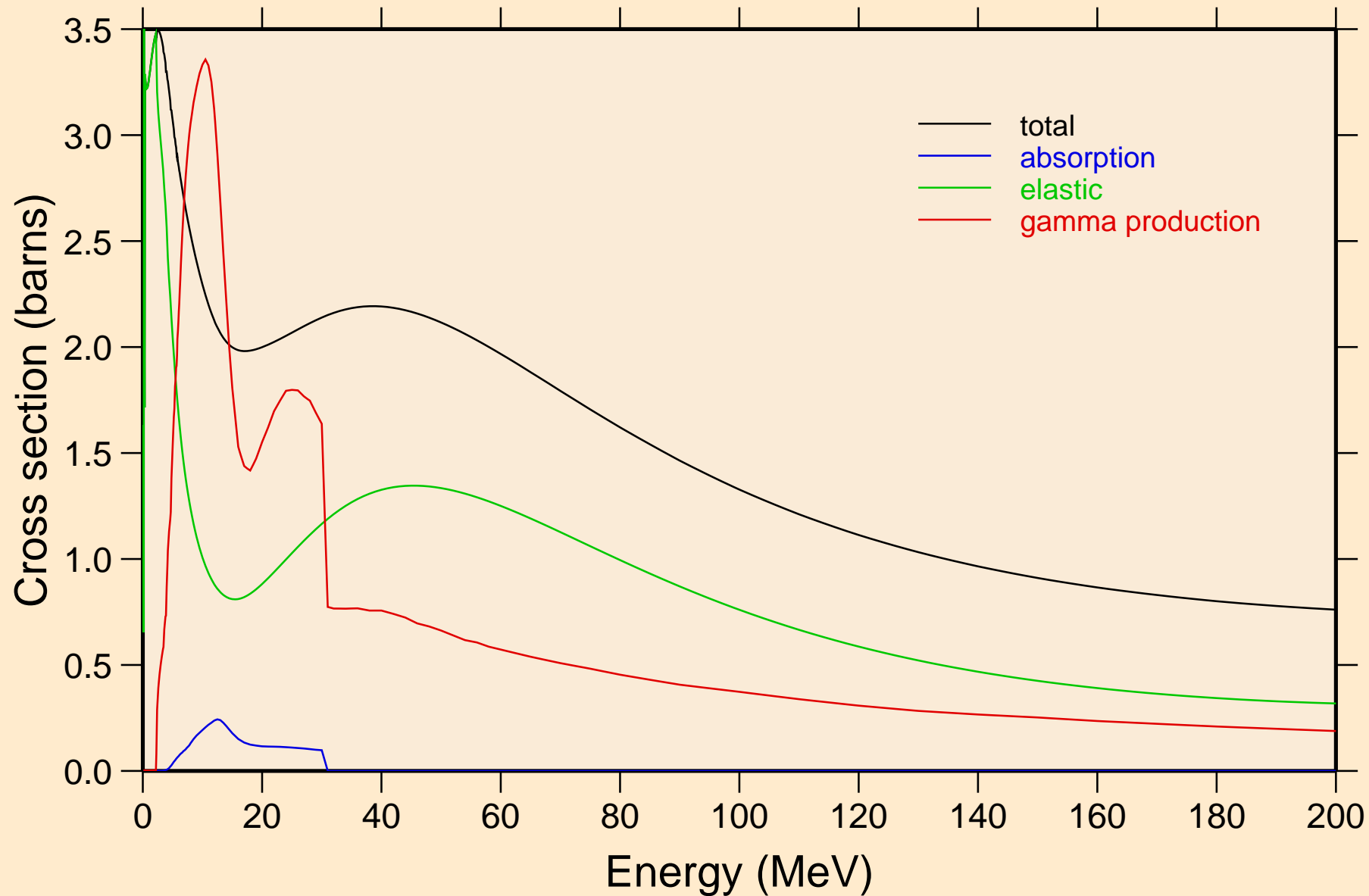


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



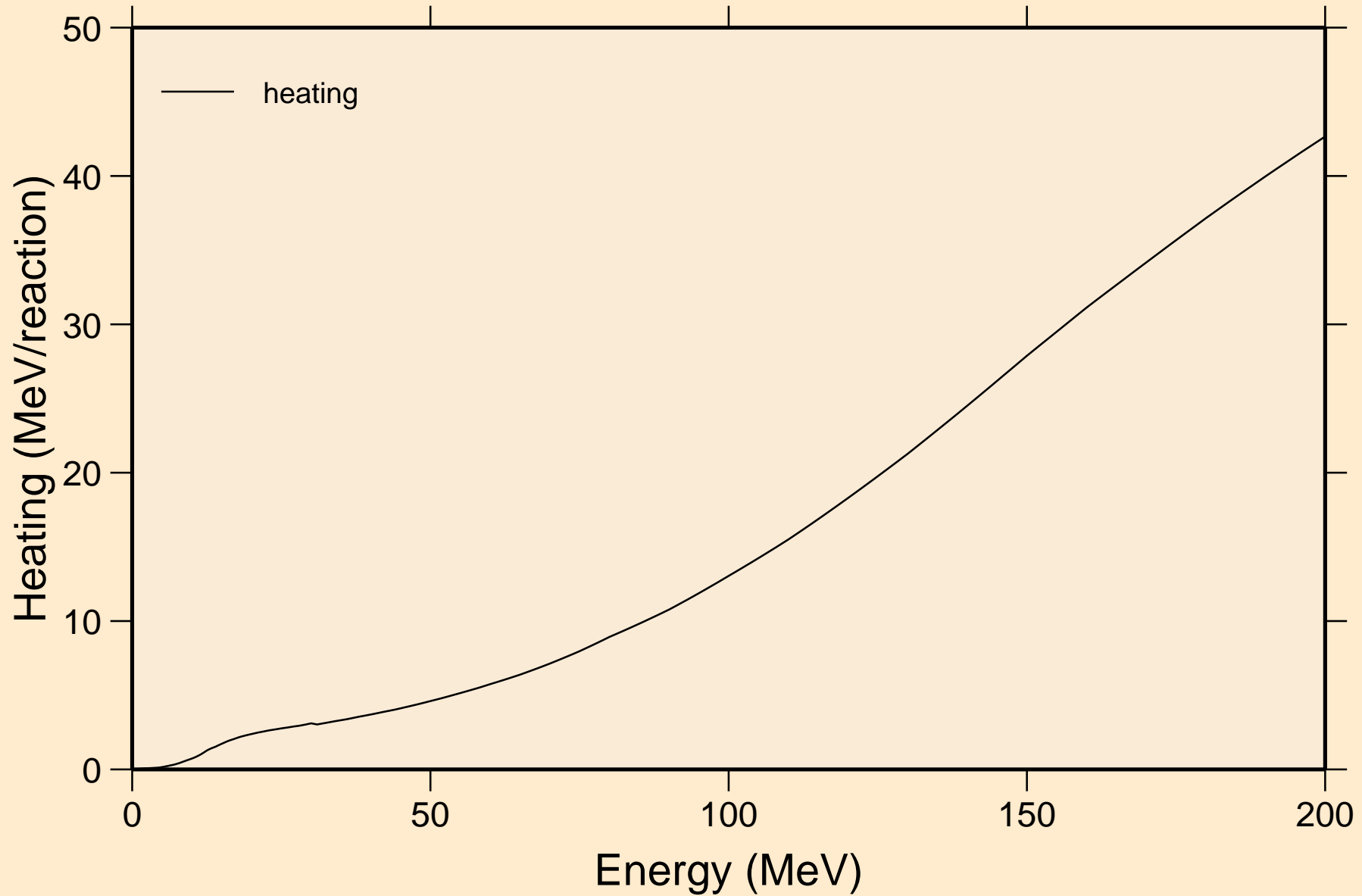
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## Principal cross sections



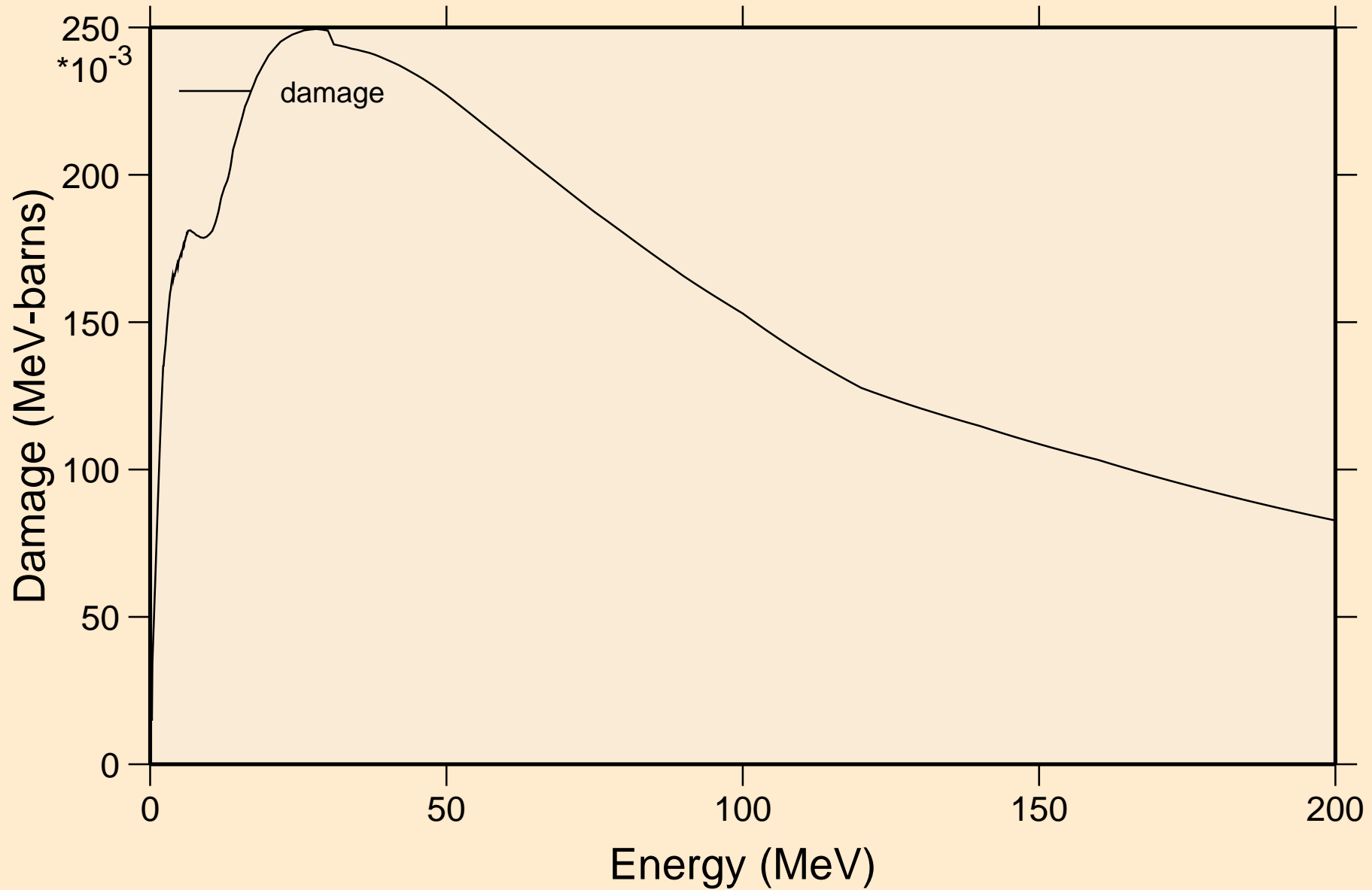
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## Heating

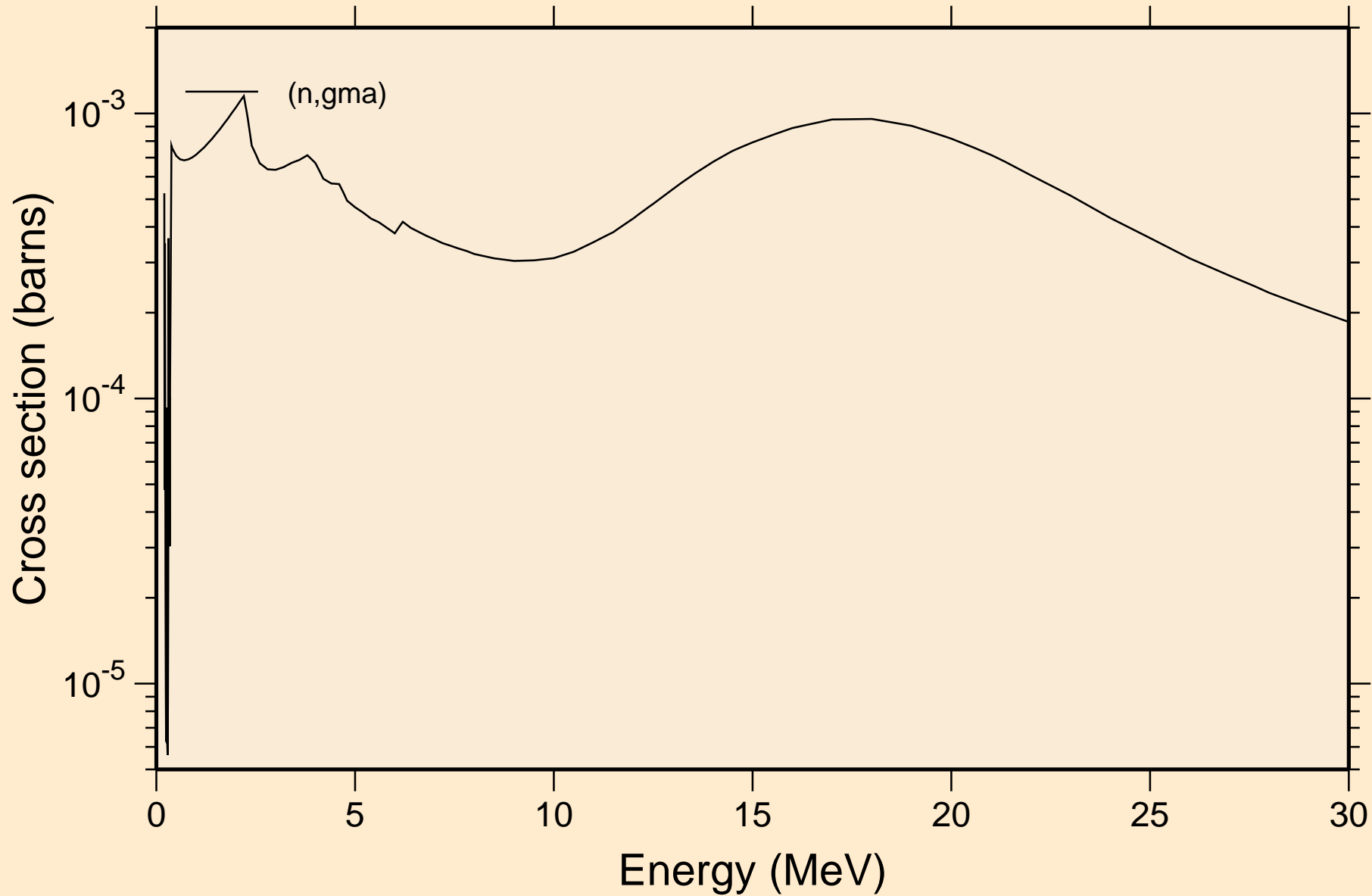


# AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

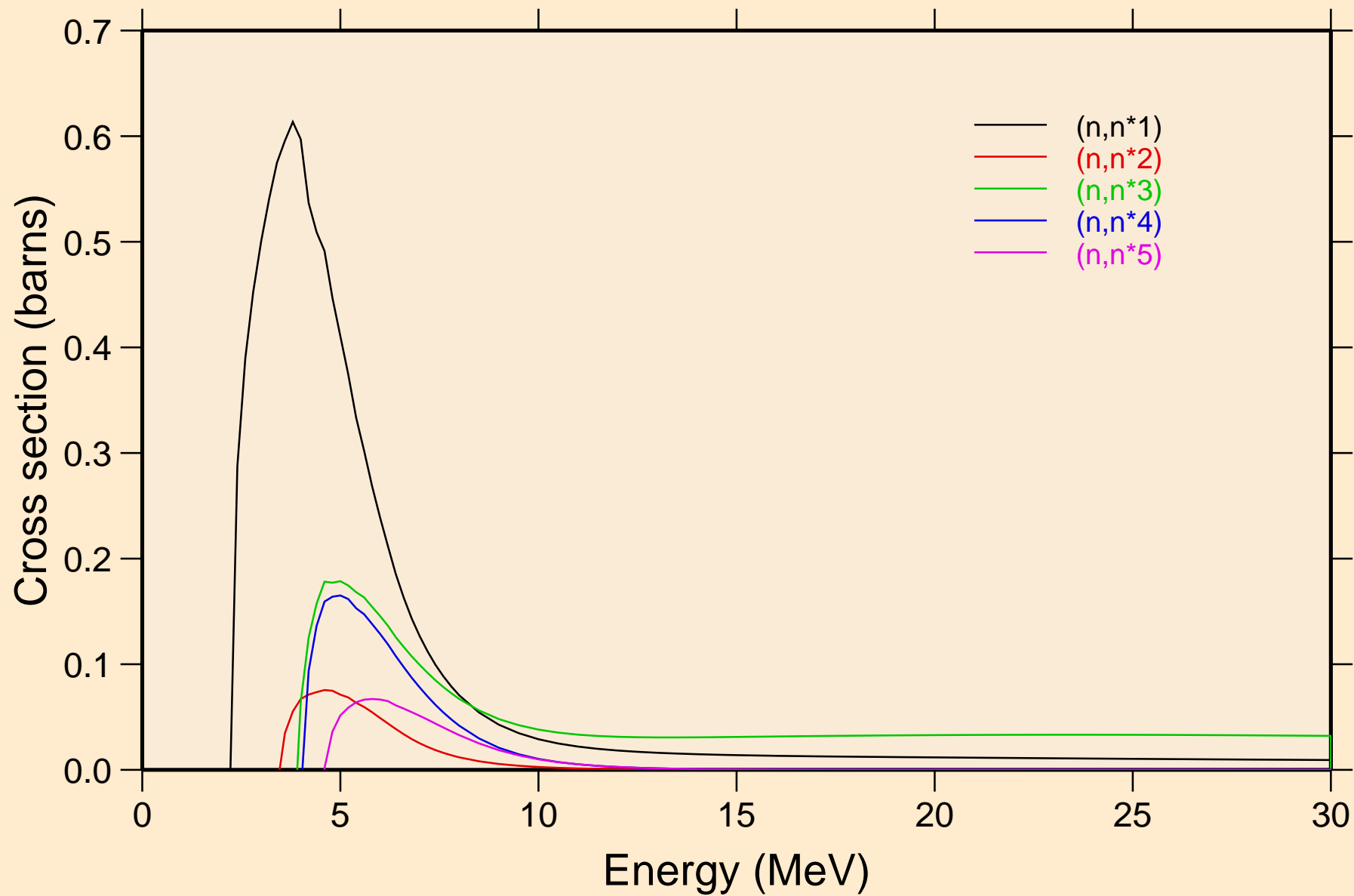


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

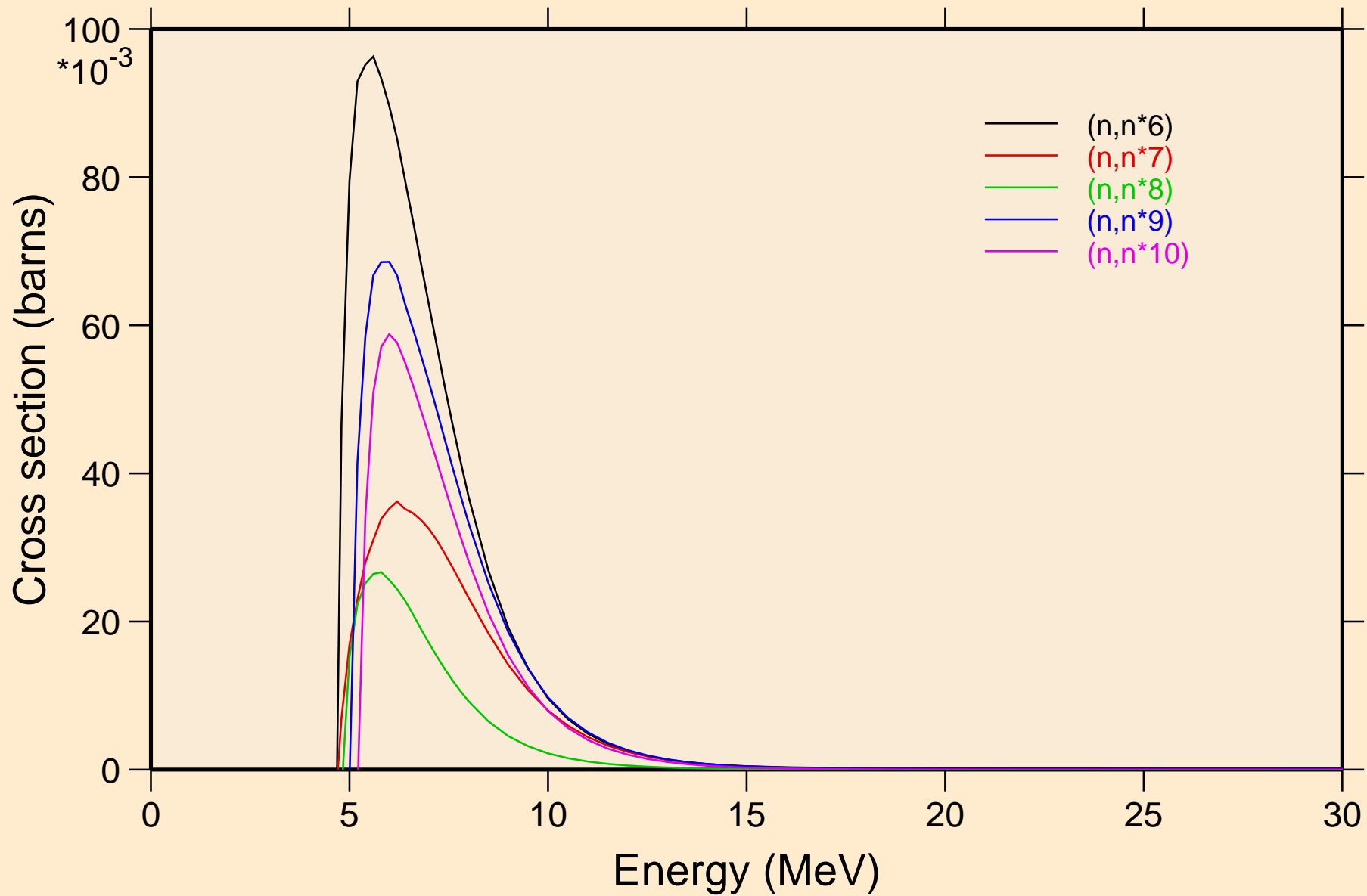




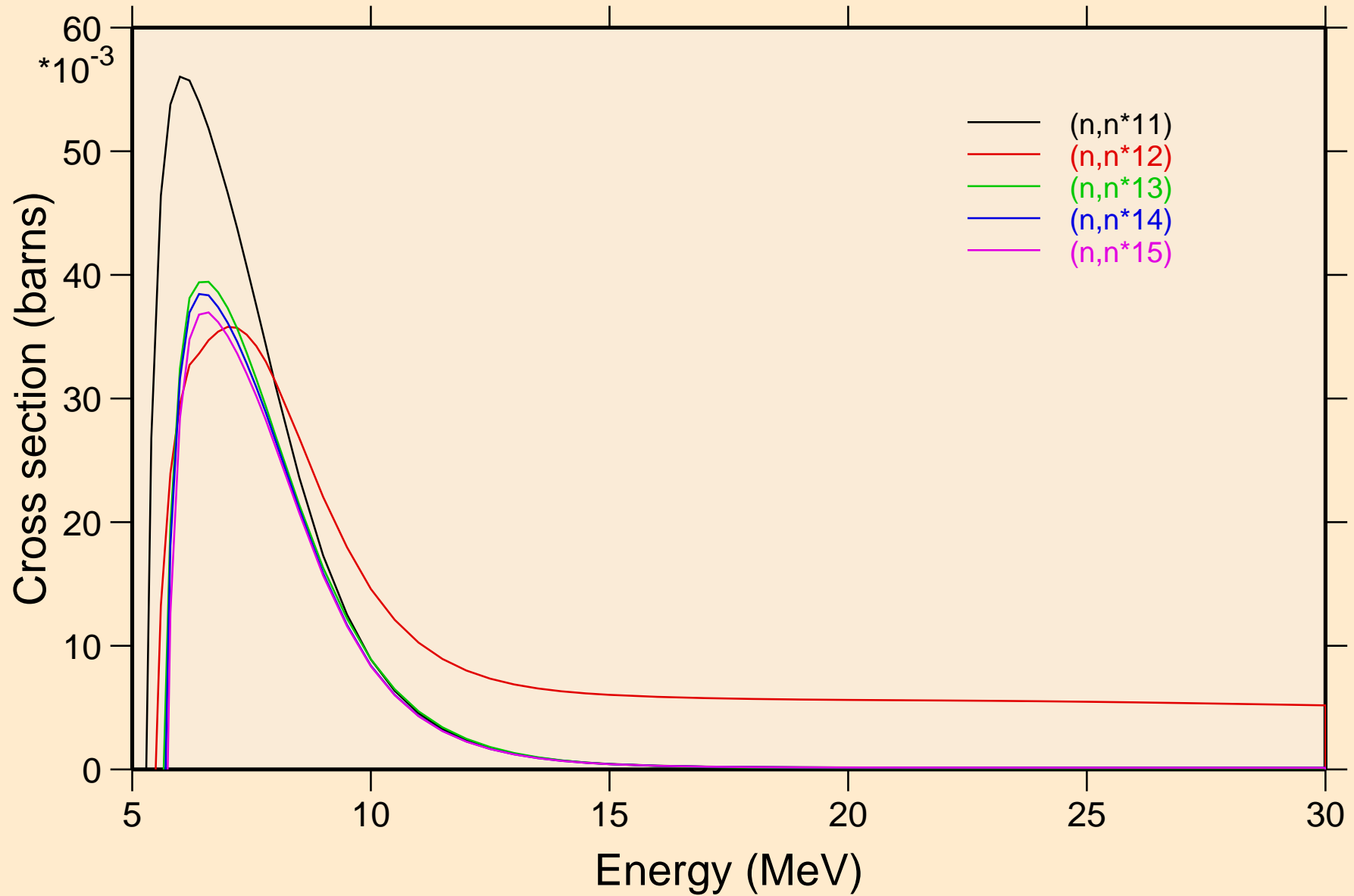
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



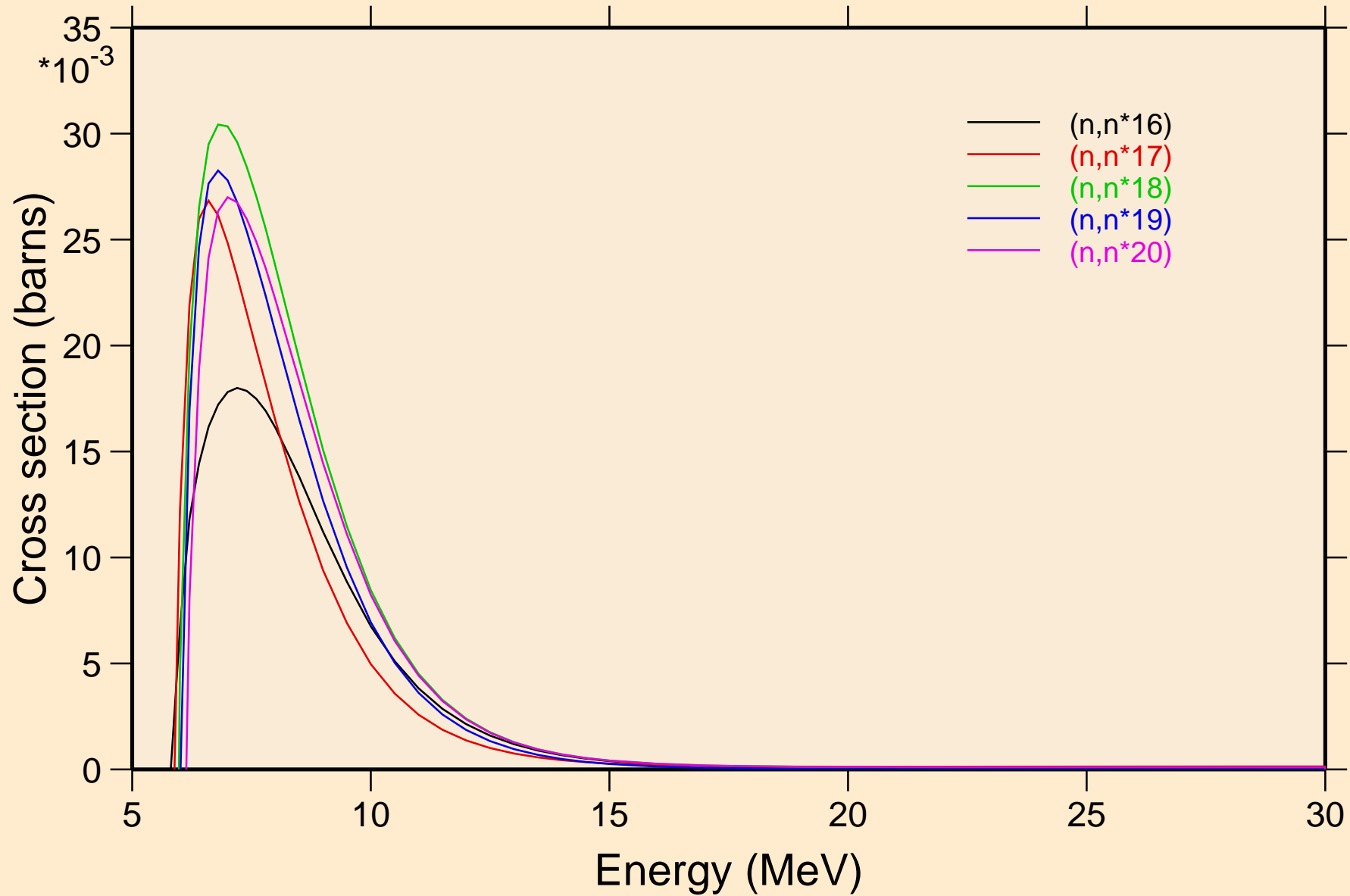
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



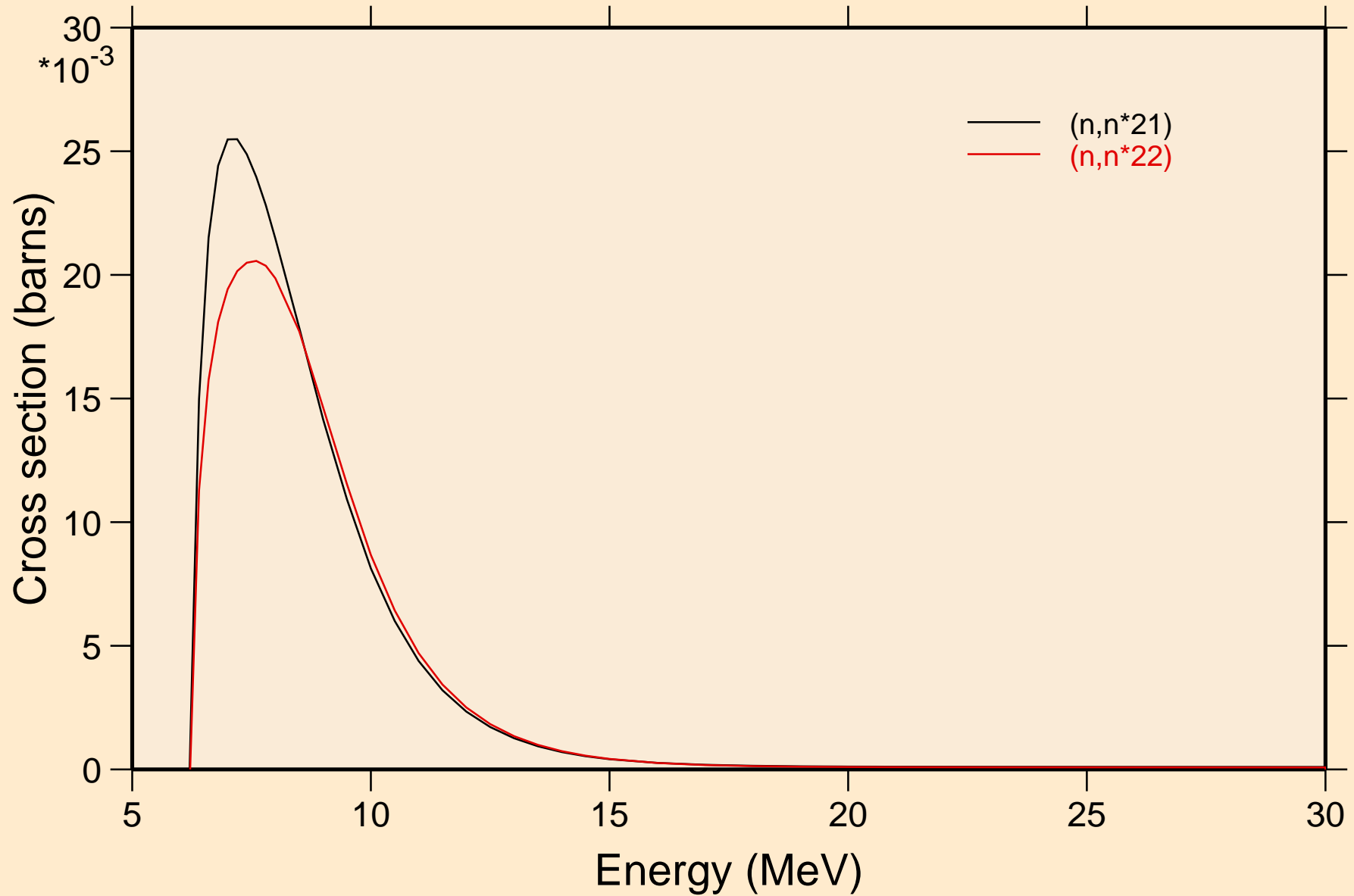
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



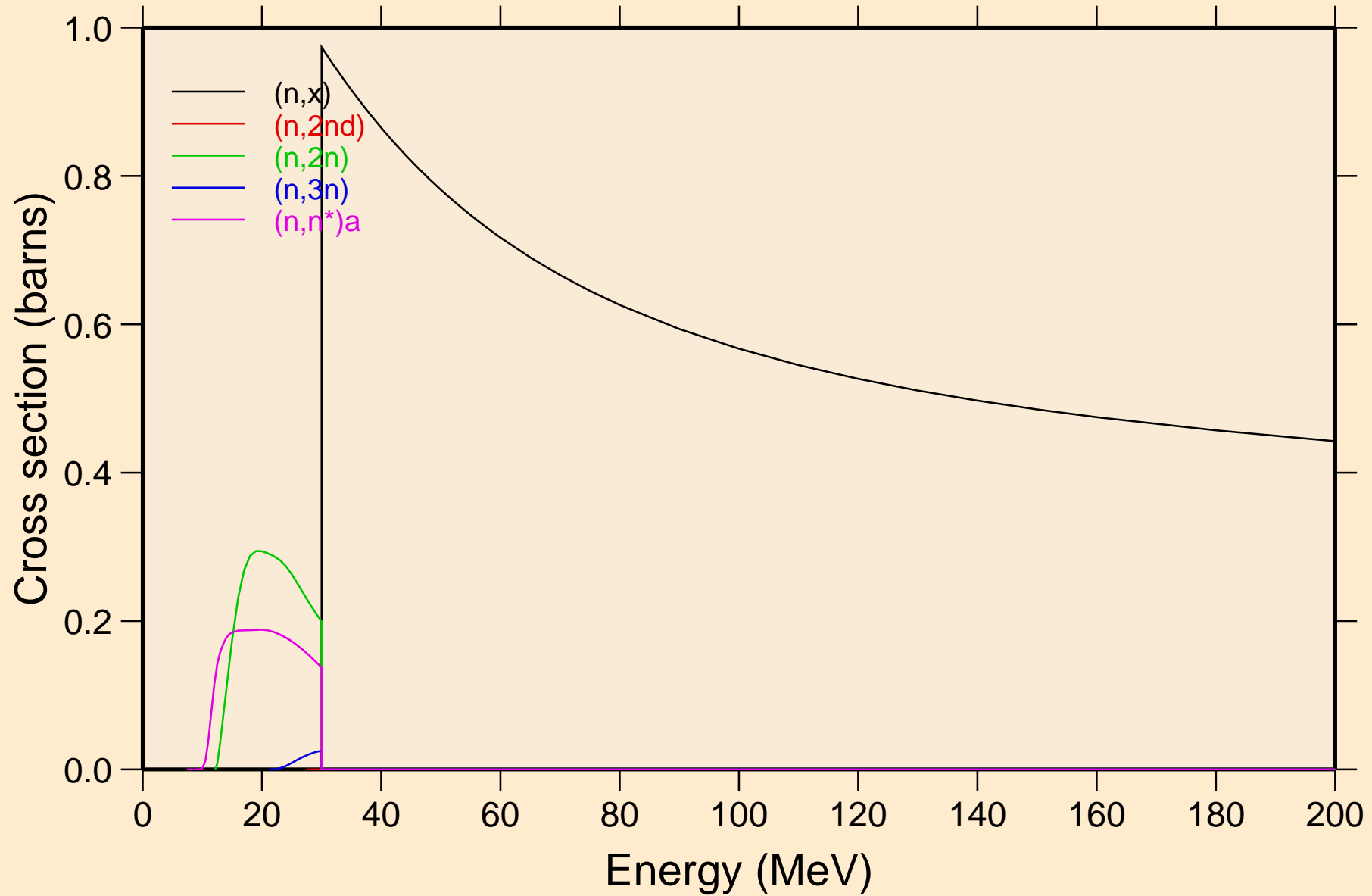
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

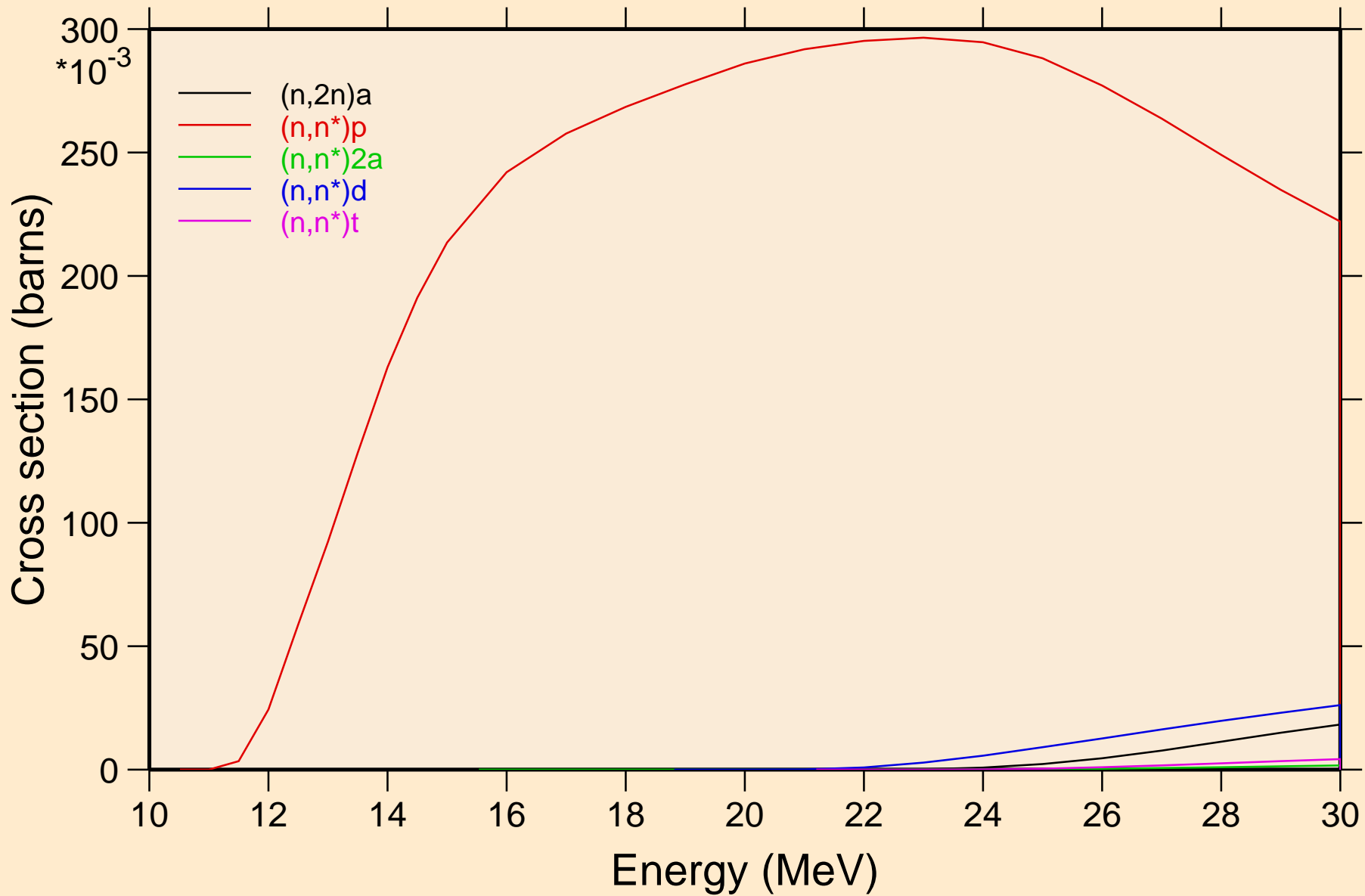


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

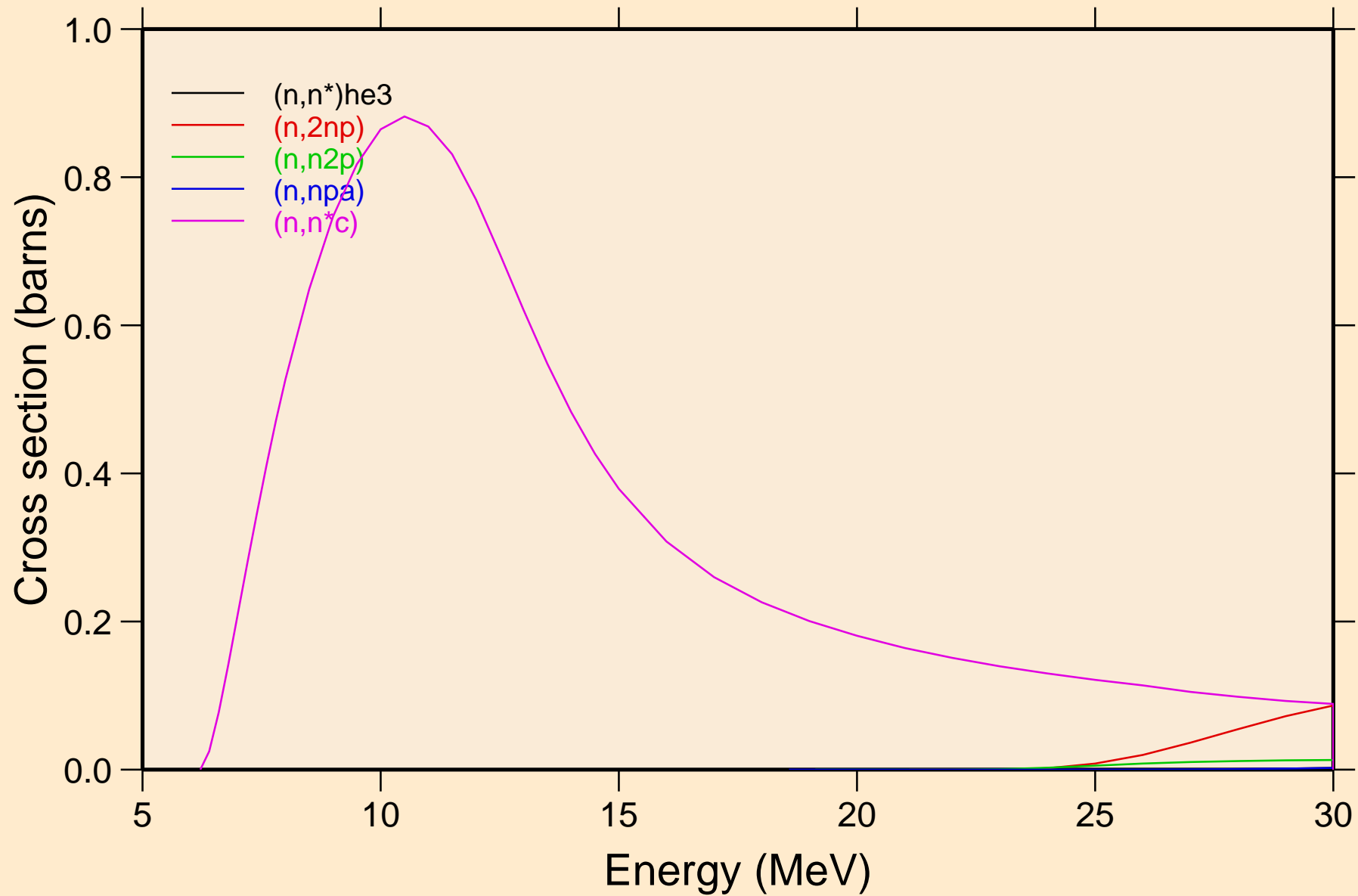


# AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



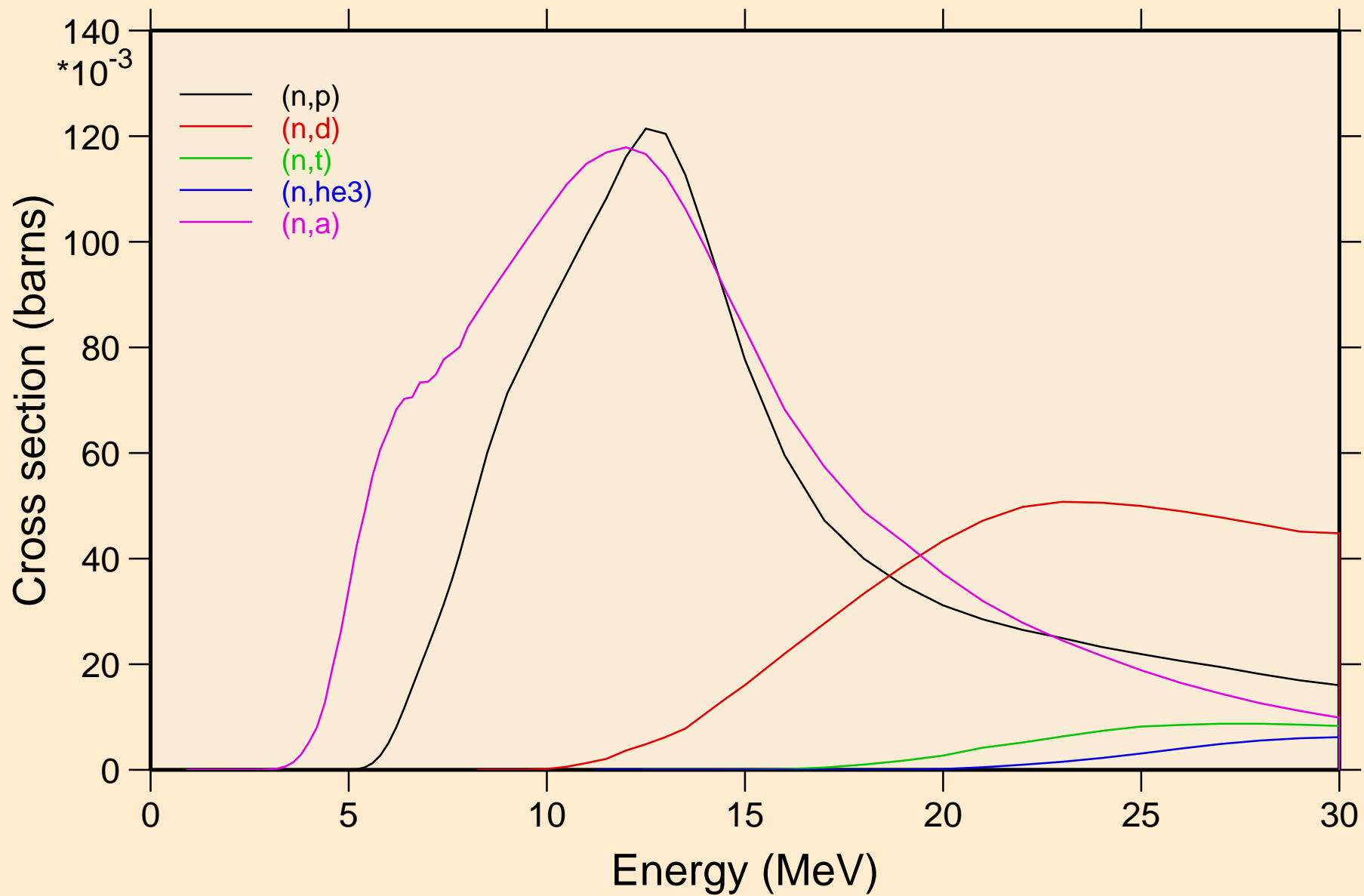
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



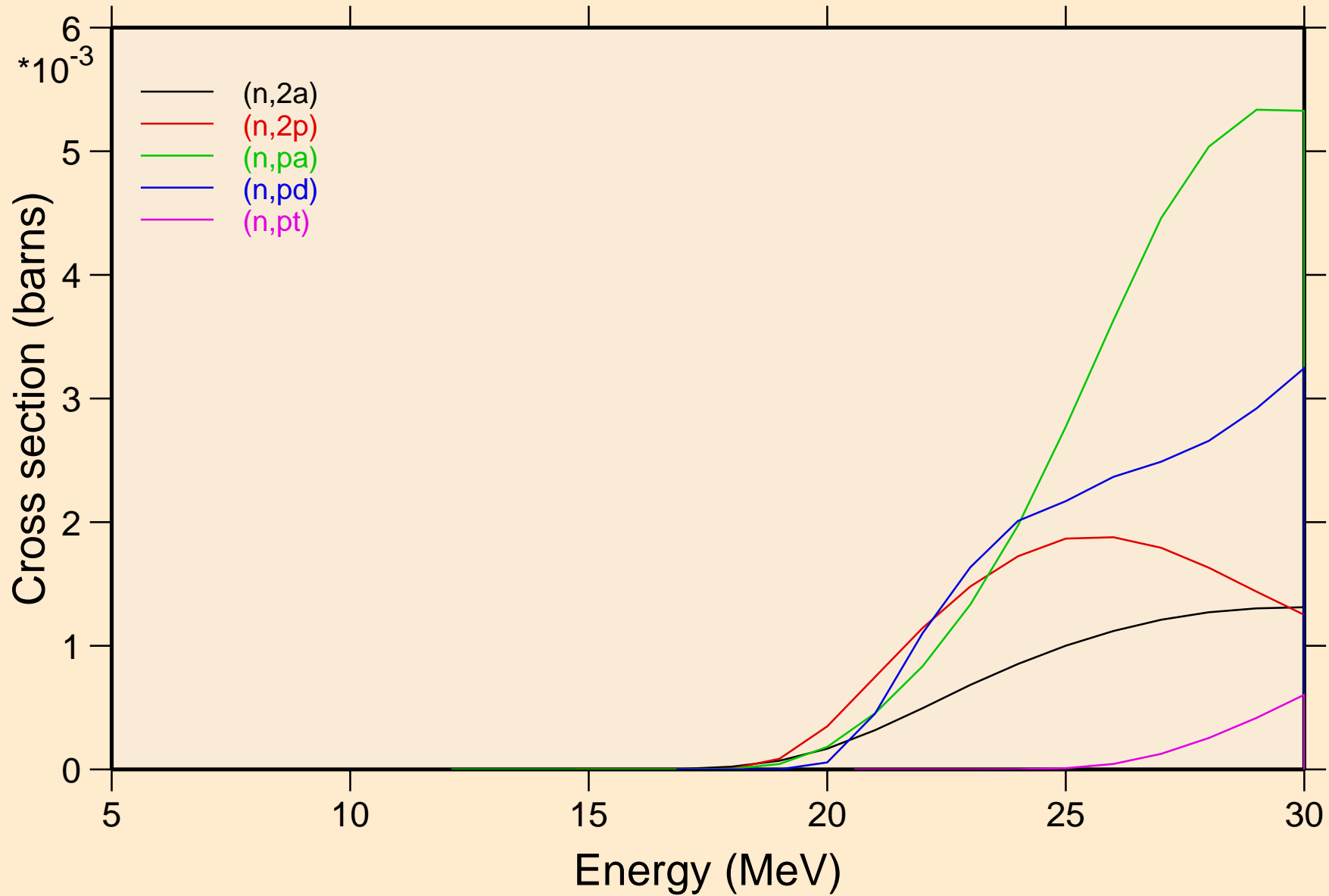


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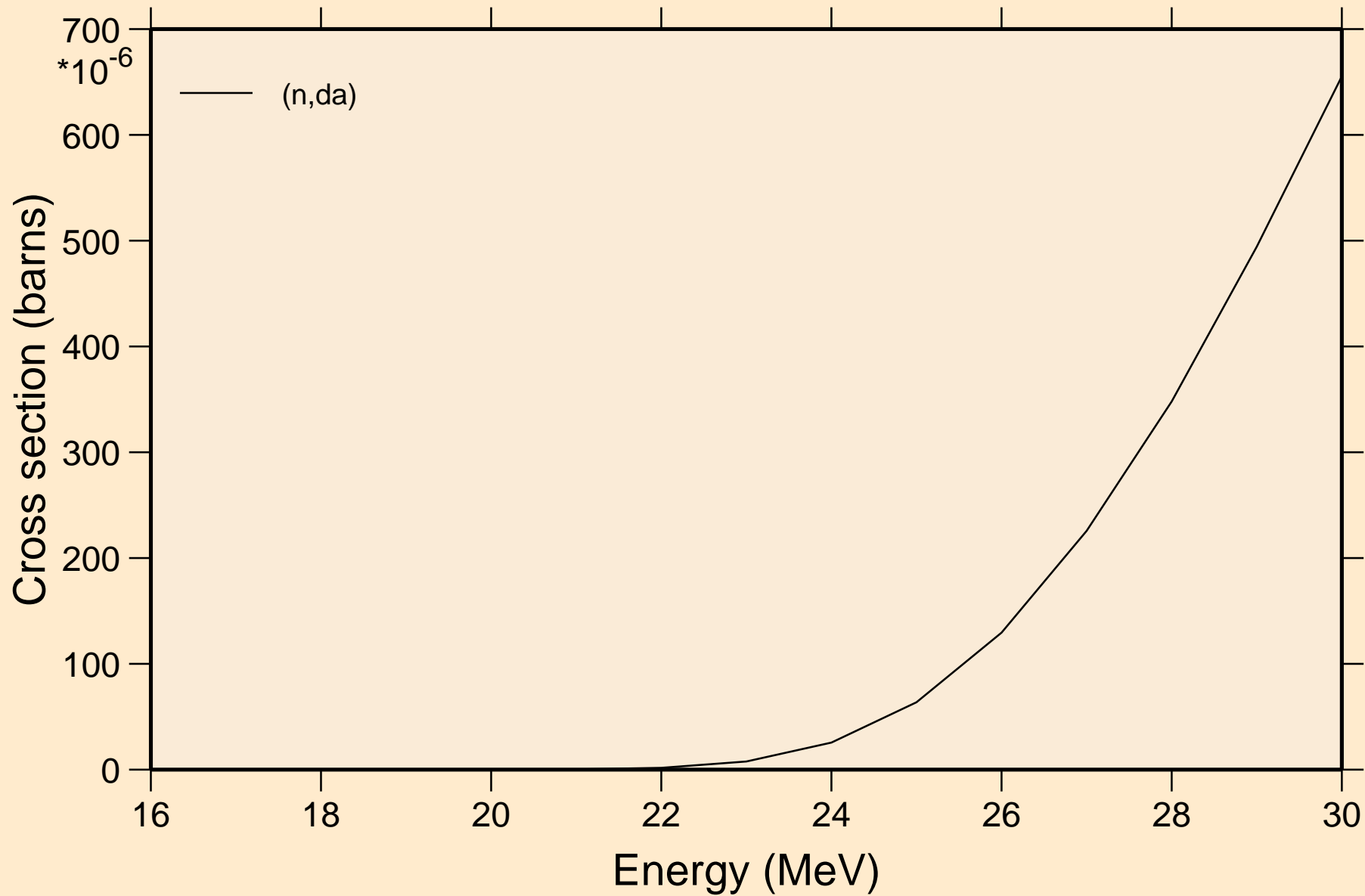
## Threshold reactions



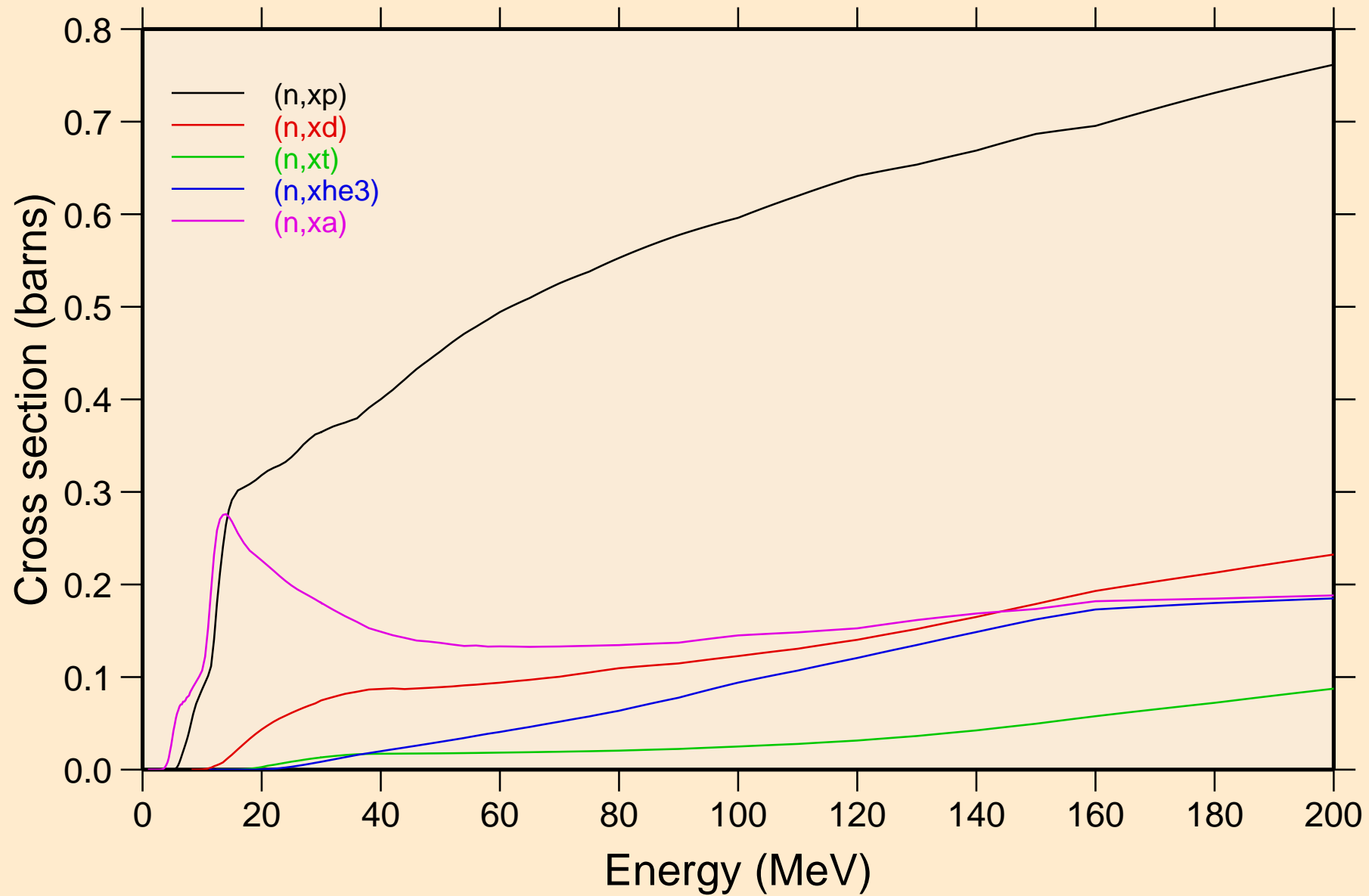
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



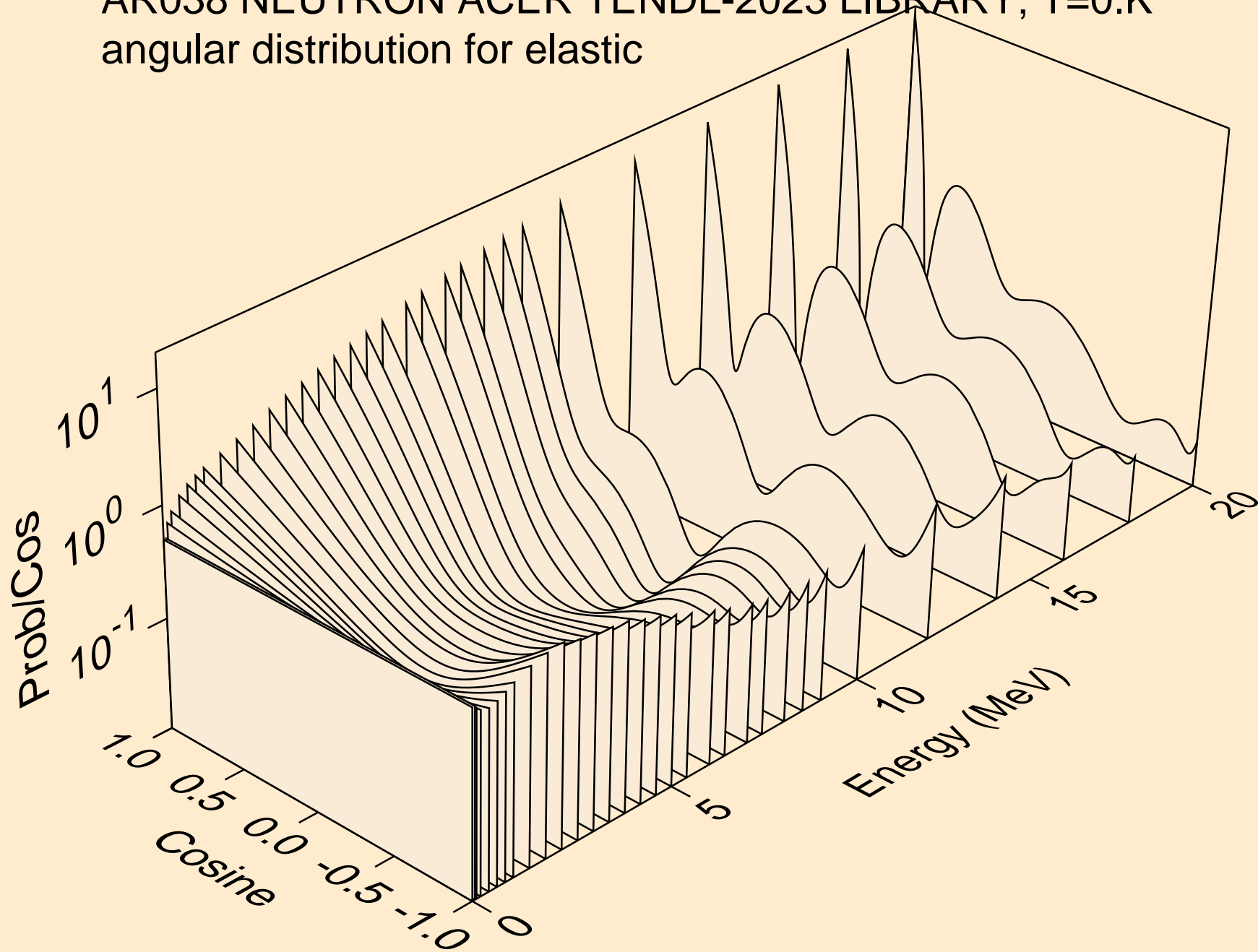
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



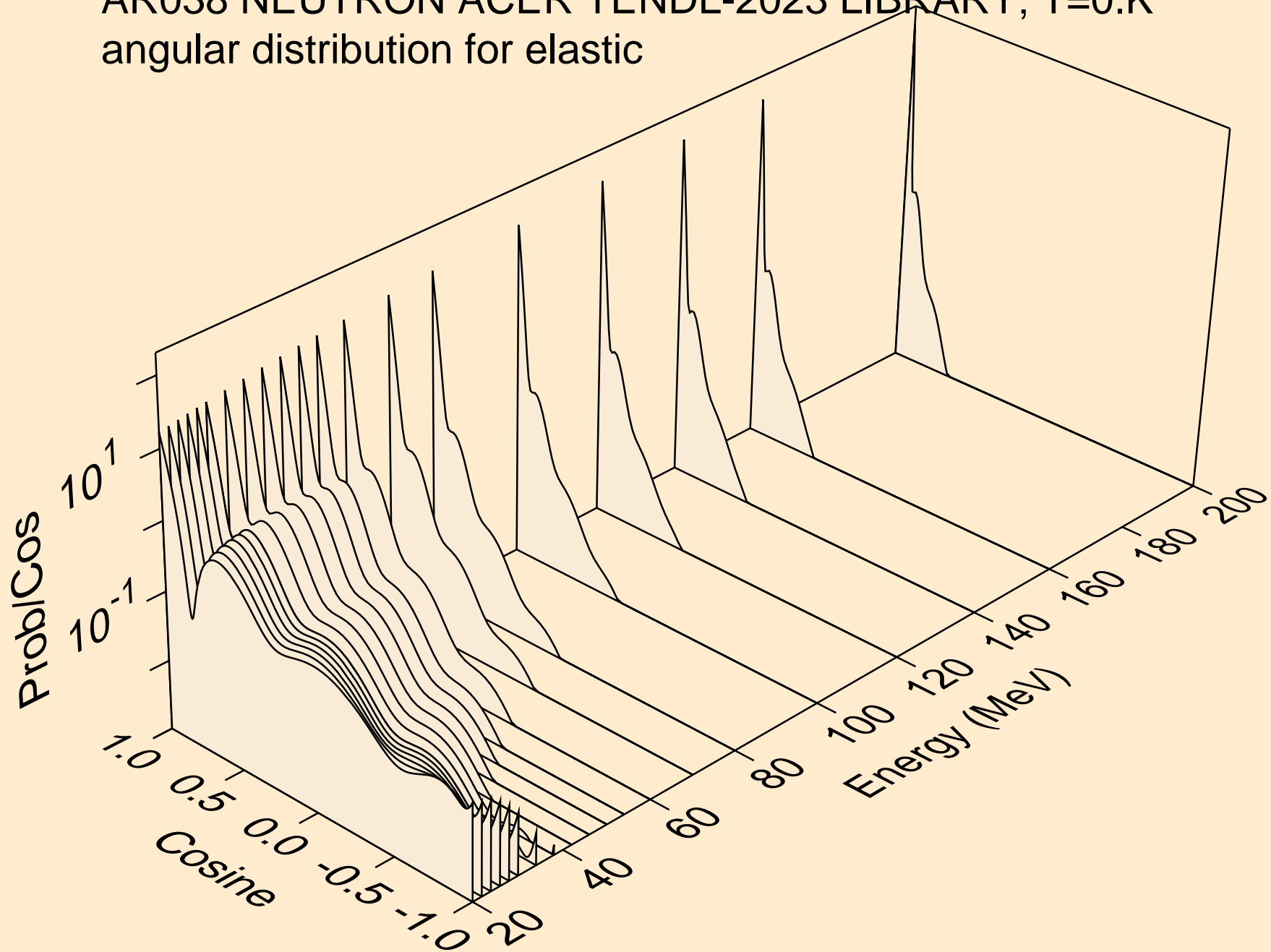
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Threshold reactions



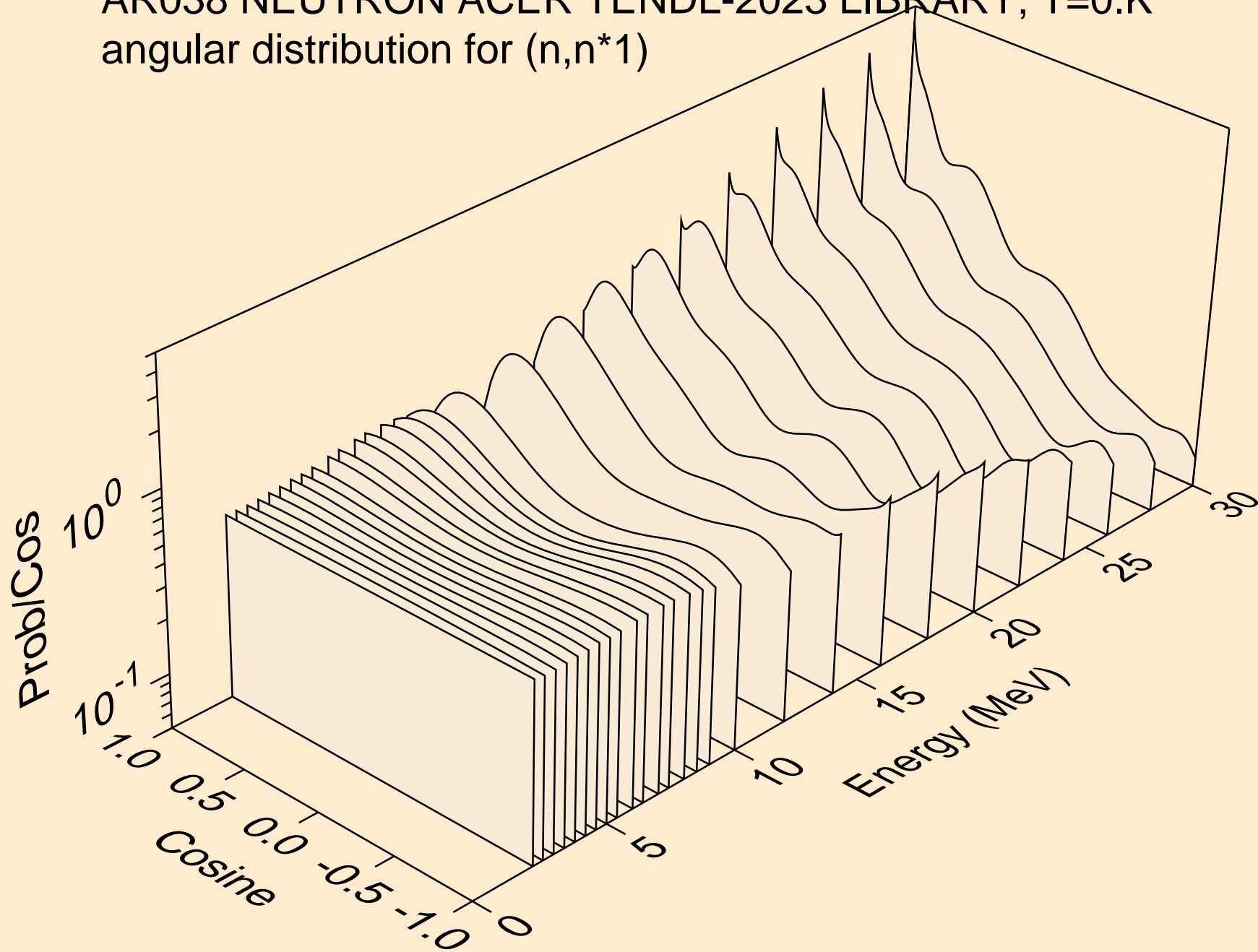
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angular distribution for elastic



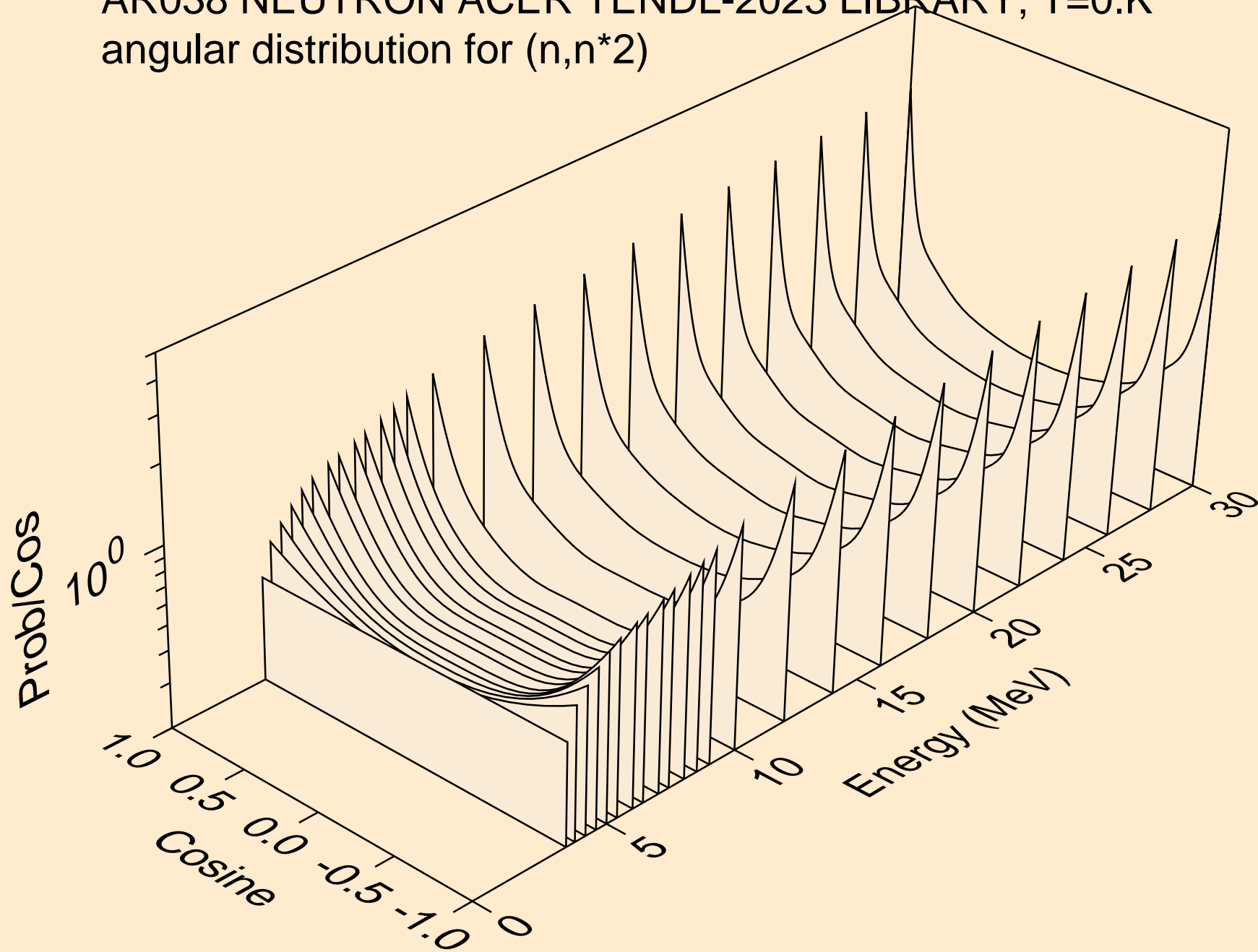
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

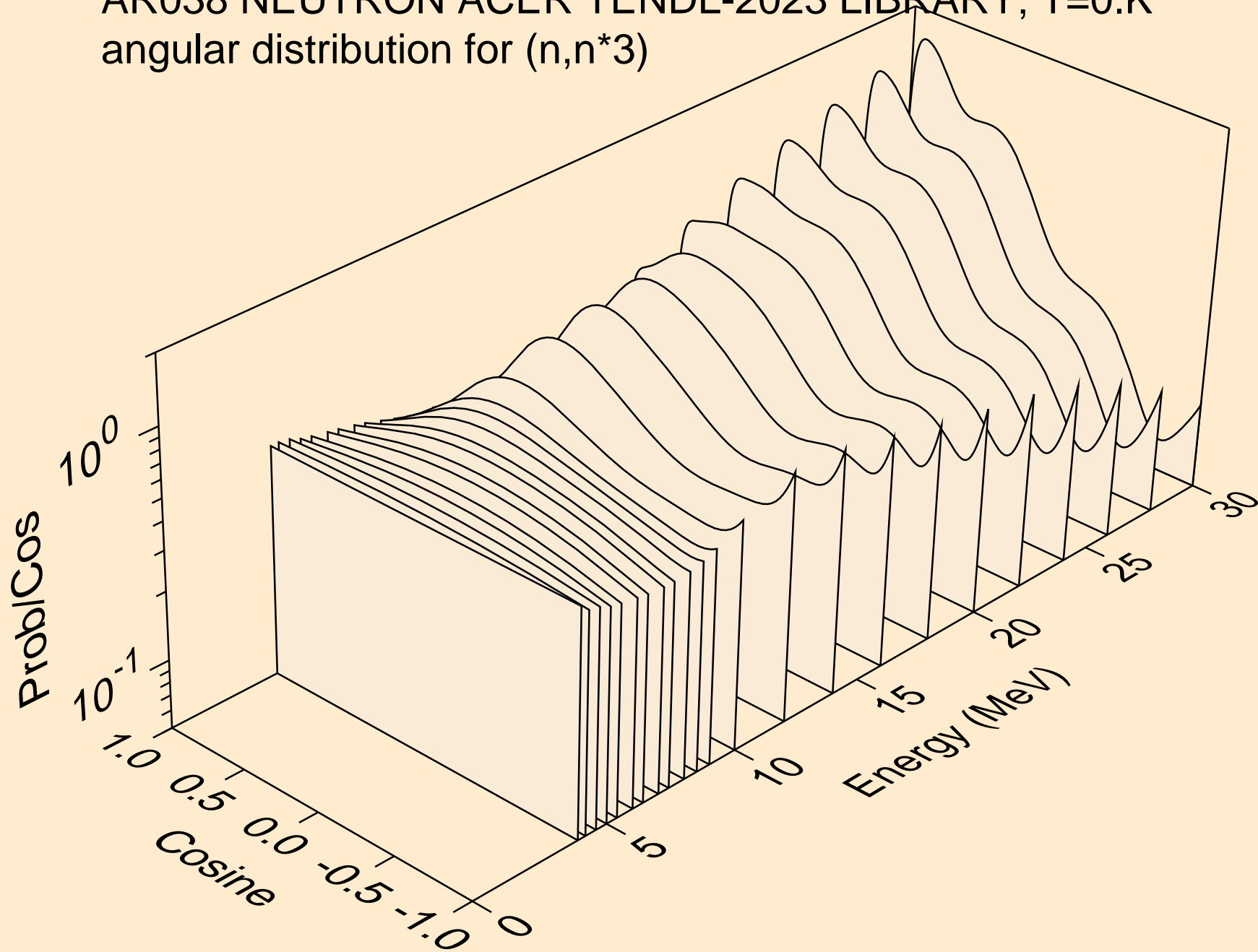


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angular distribution for (n,n\*2)

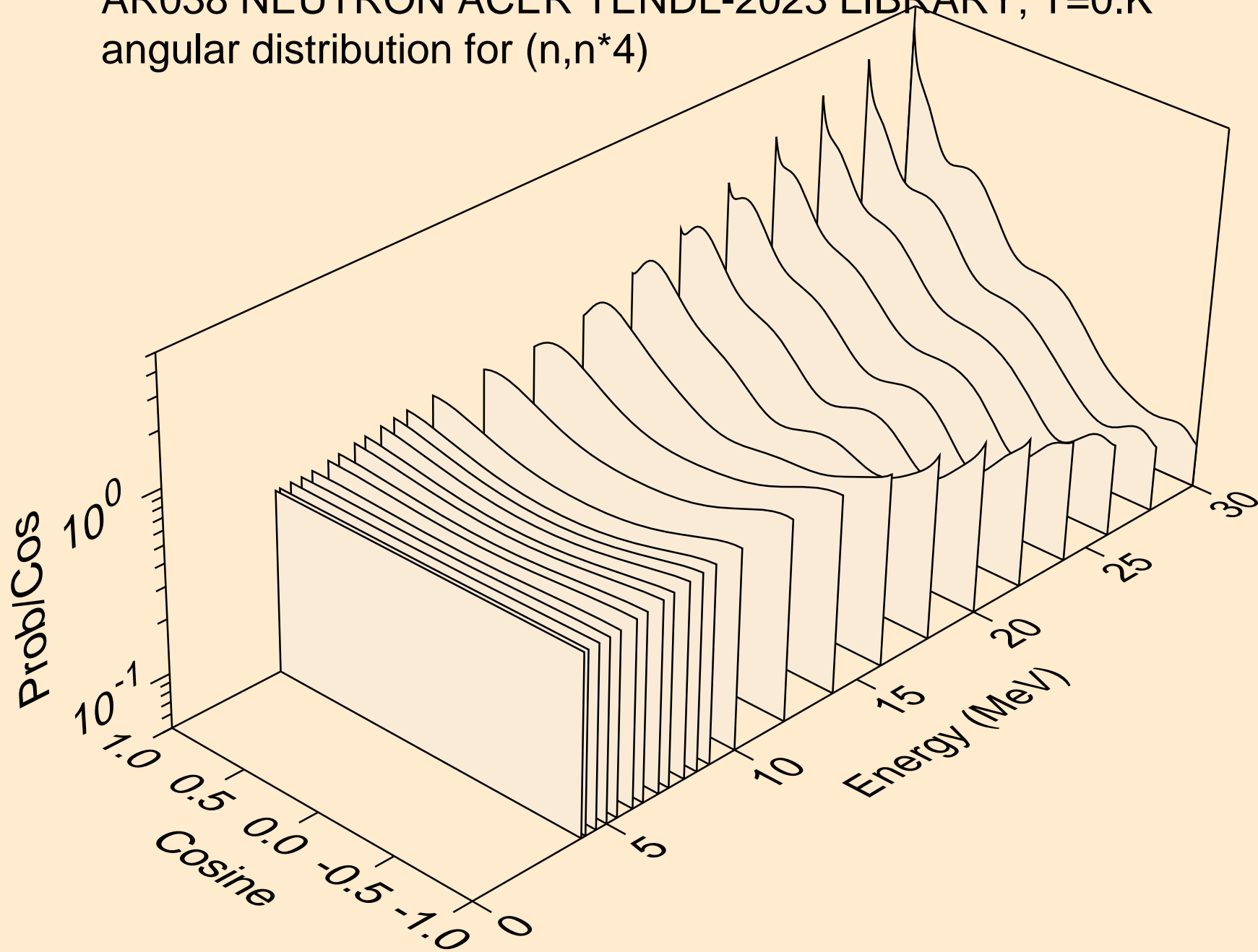




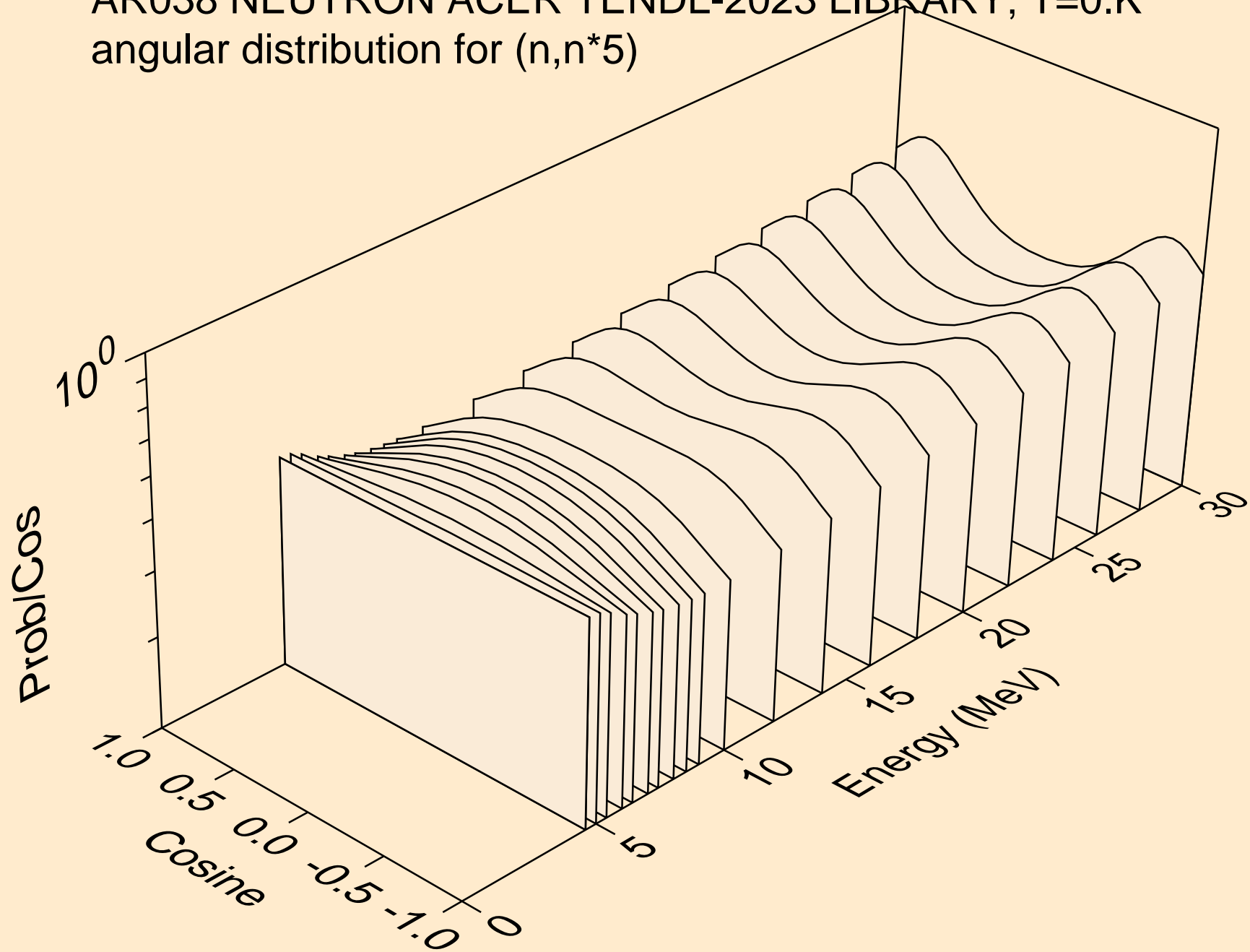
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angular distribution for (n,n\*3)



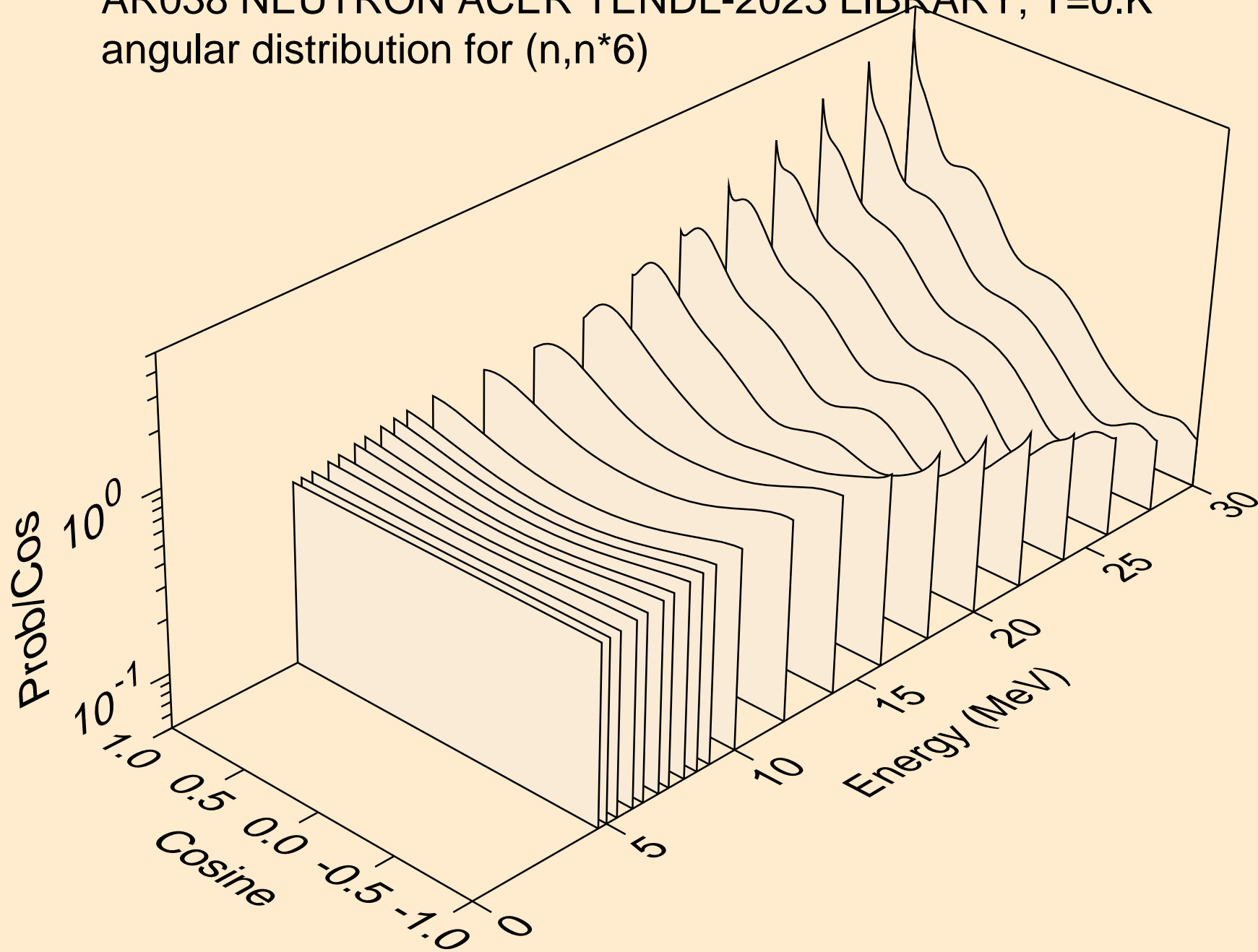
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angular distribution for (n,n\*4)



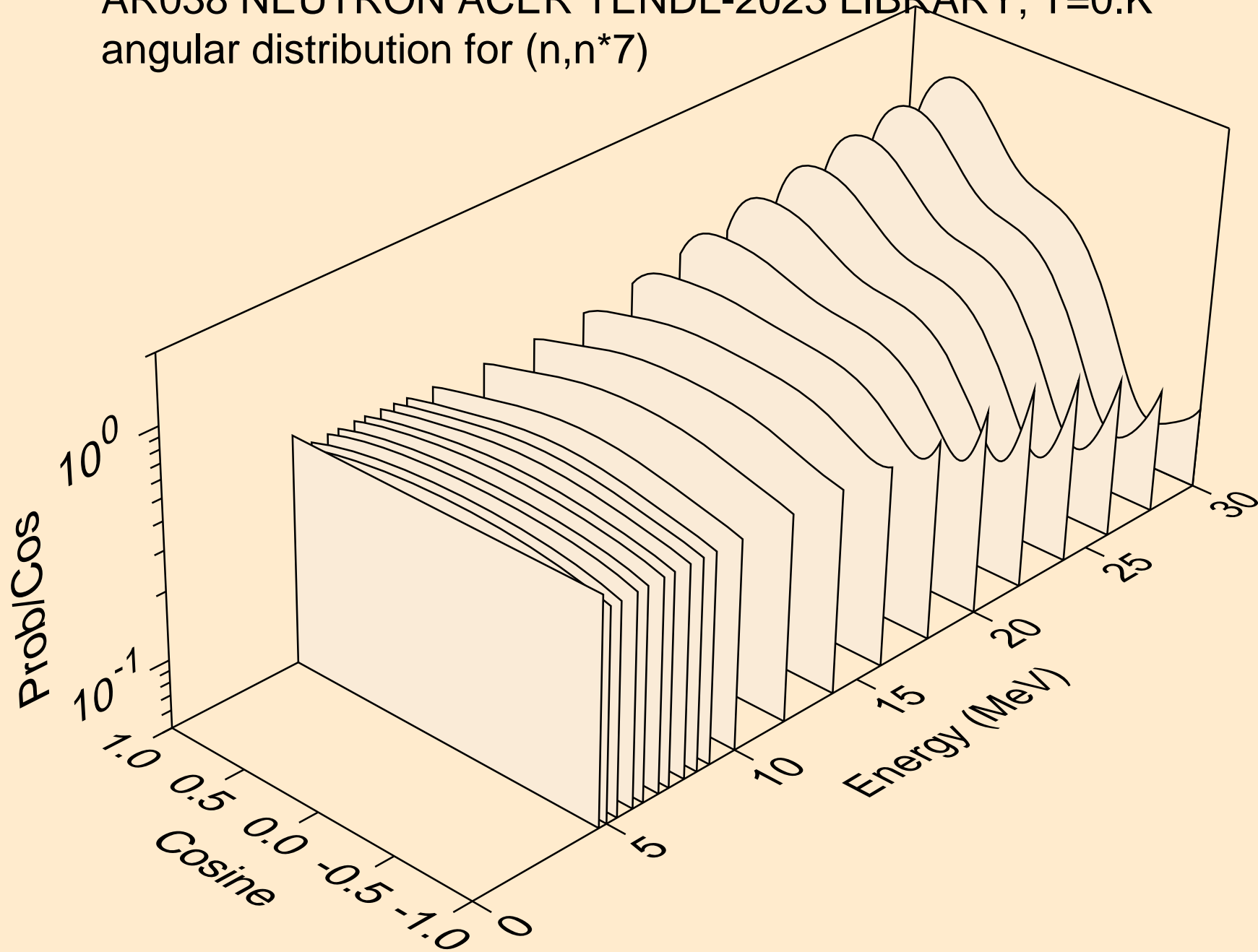
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angular distribution for (n,n\*5)



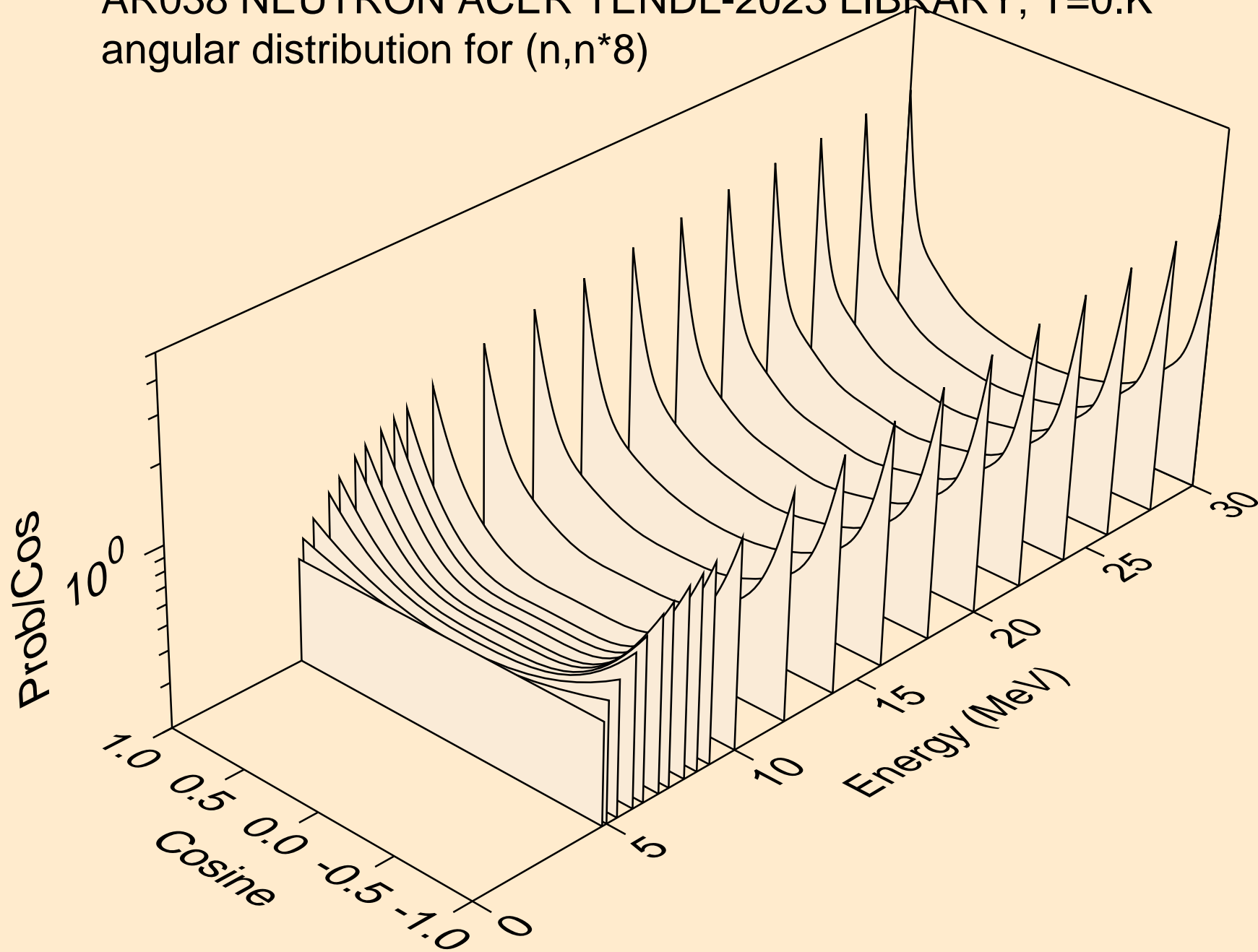
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angular distribution for (n,n\*6)



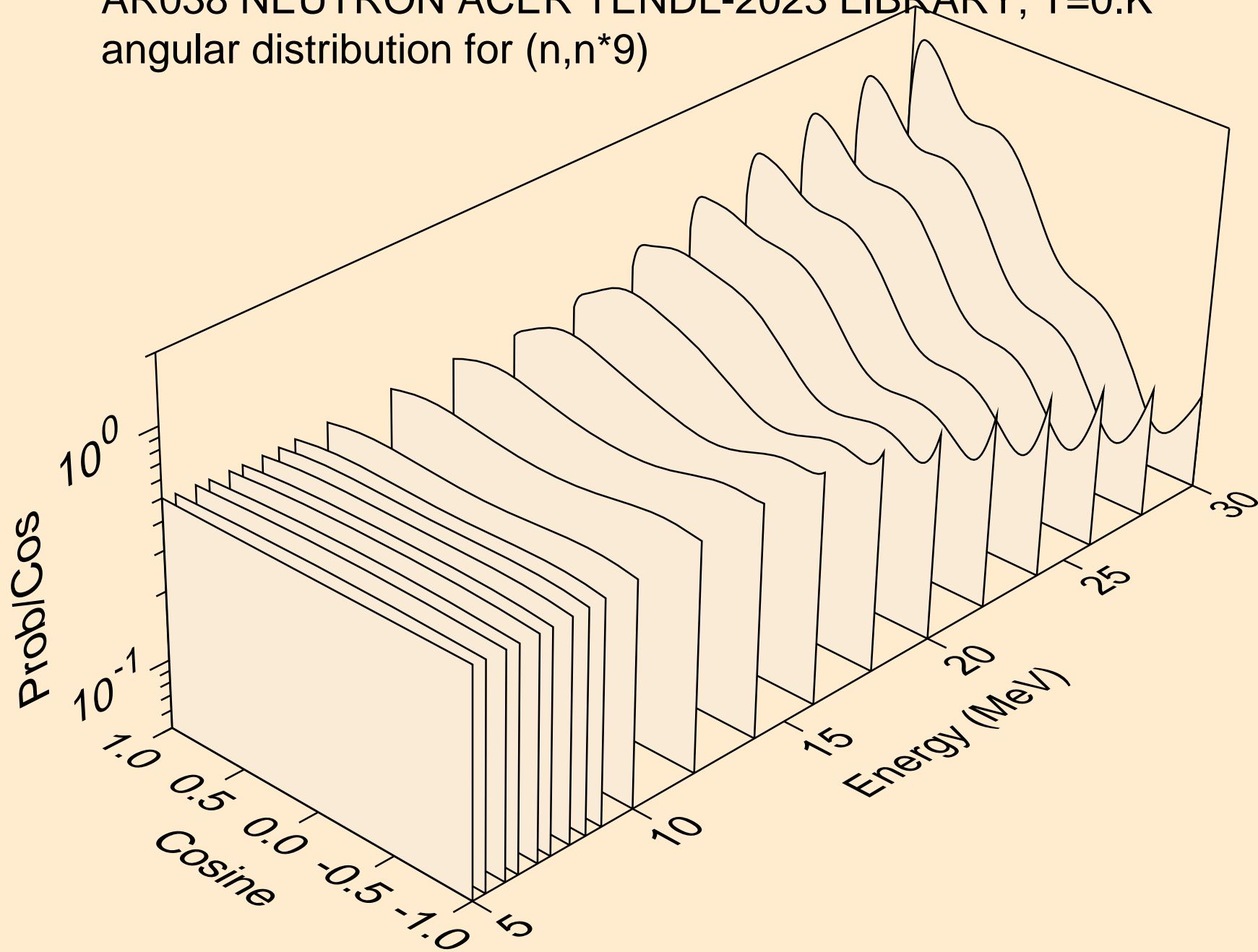
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angular distribution for (n,n\*7)



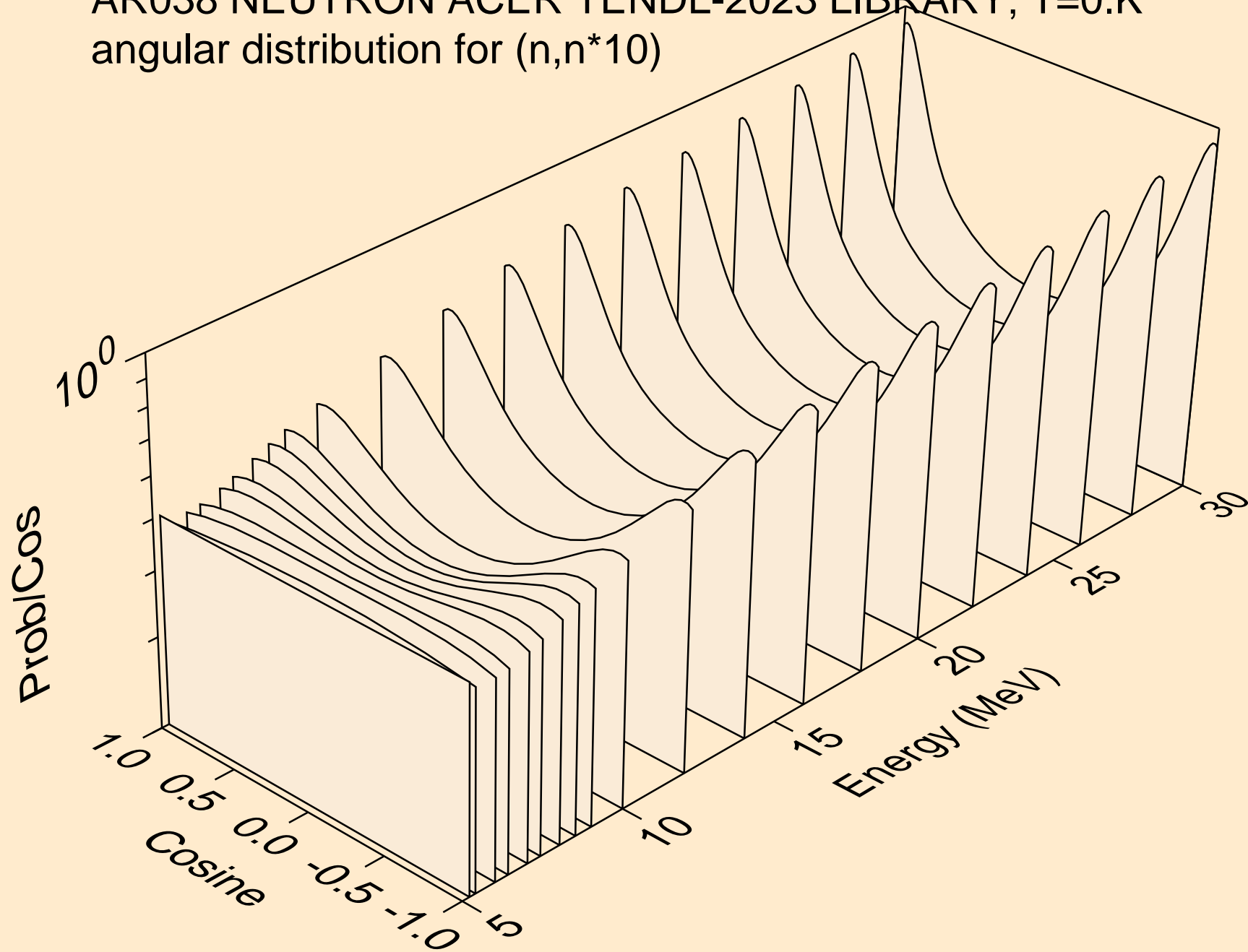
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angular distribution for (n,n\*8)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

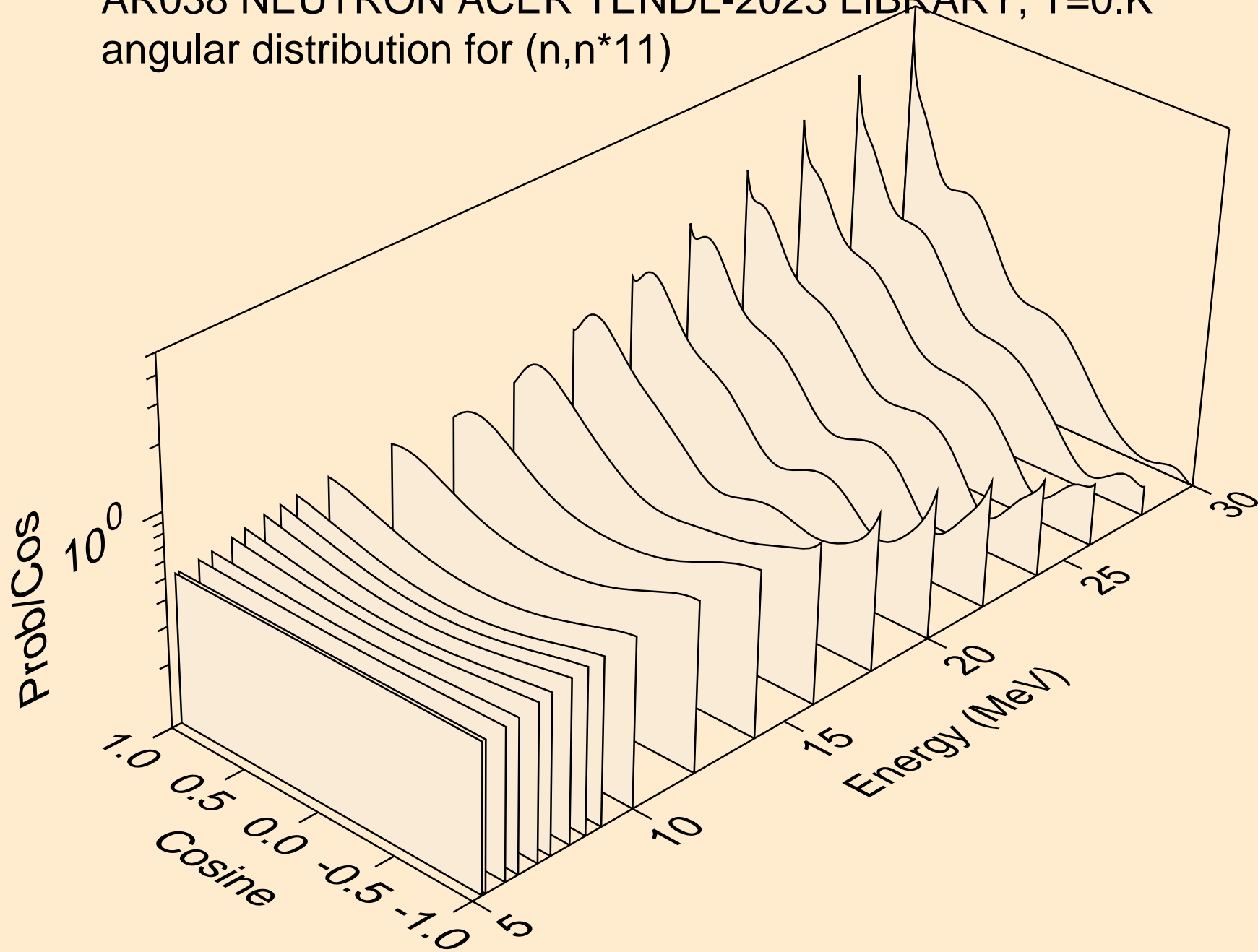


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angular distribution for (n,n\*10)

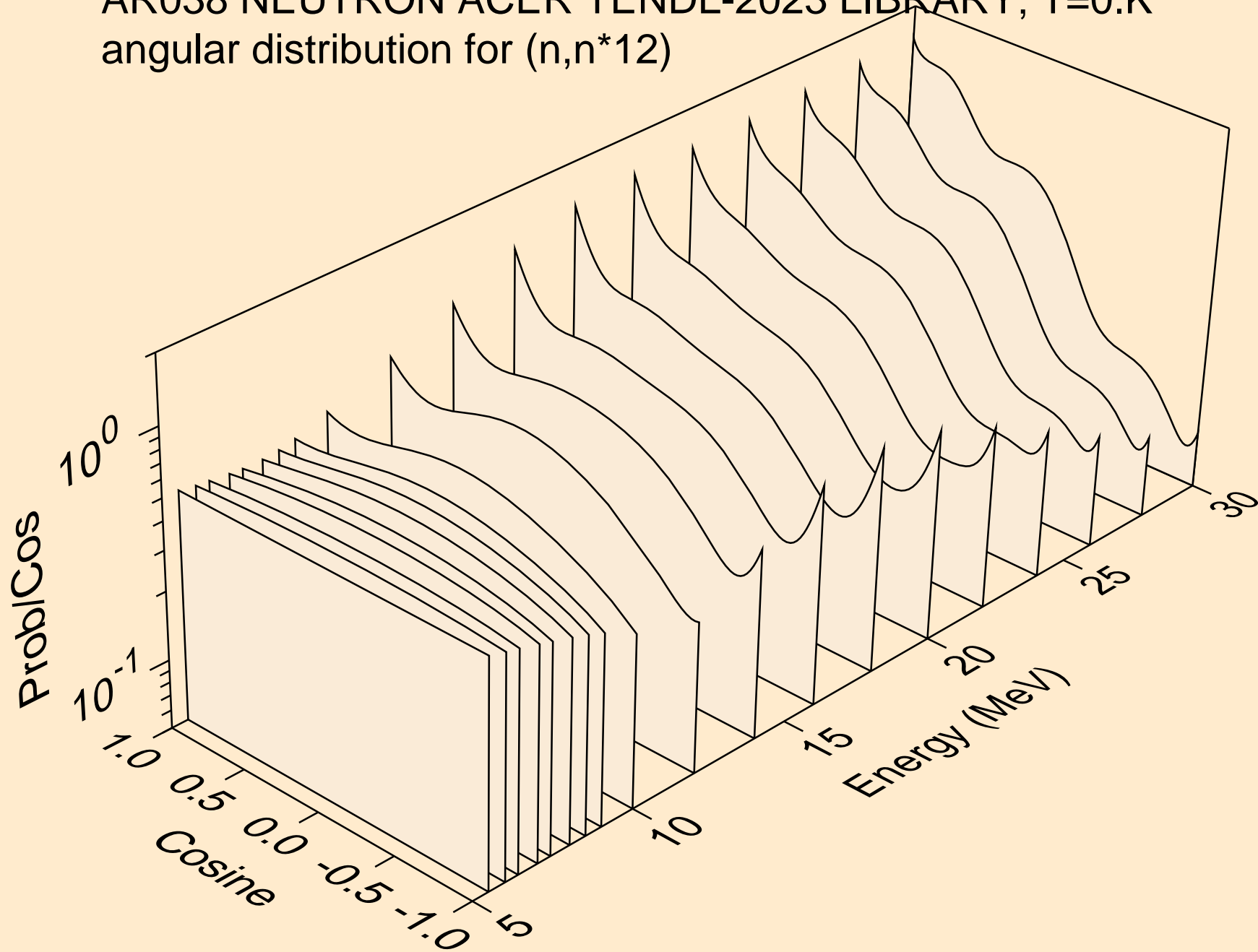




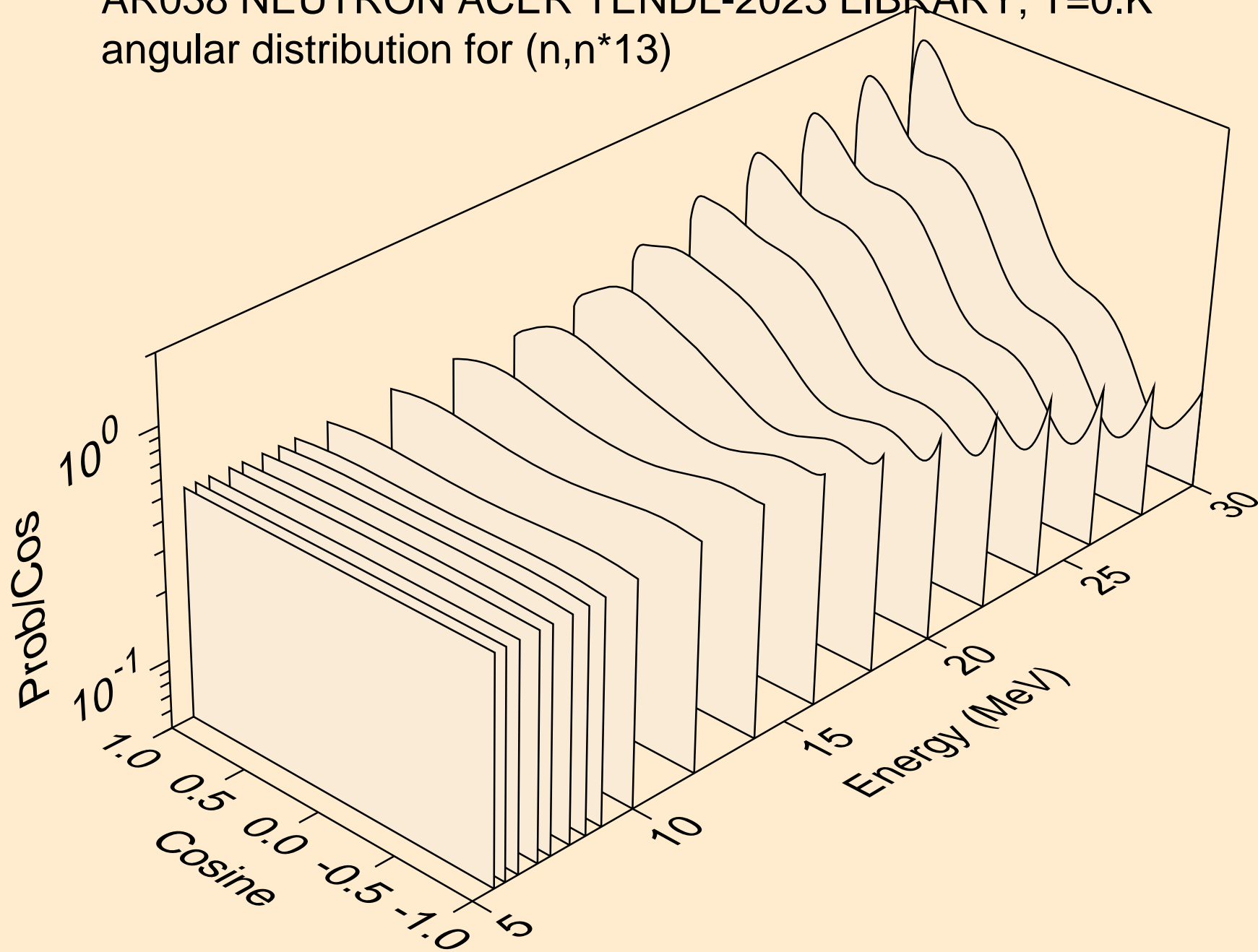
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angular distribution for (n,n\*11)



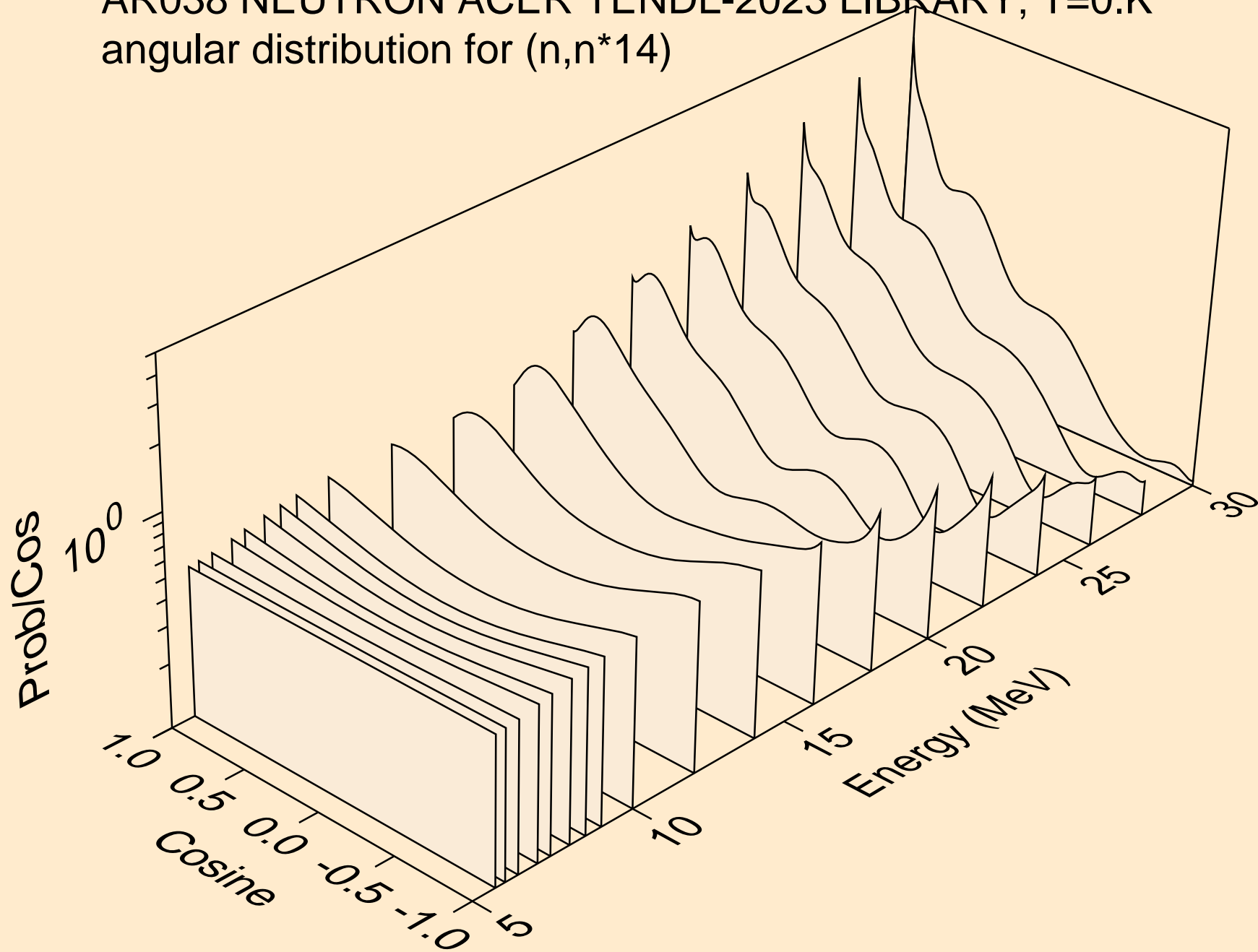
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angular distribution for (n,n\*12)



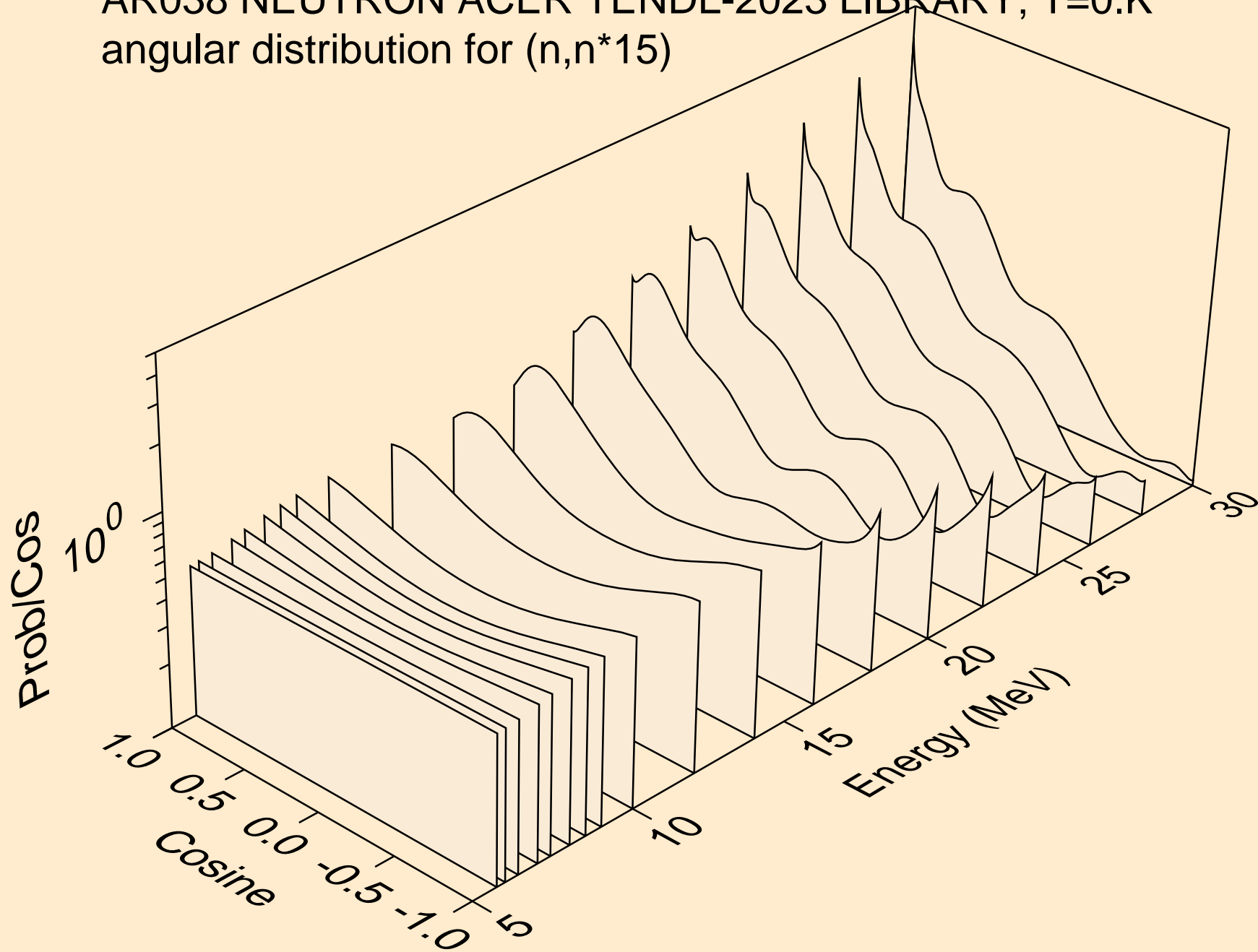
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angular distribution for (n,n\*13)



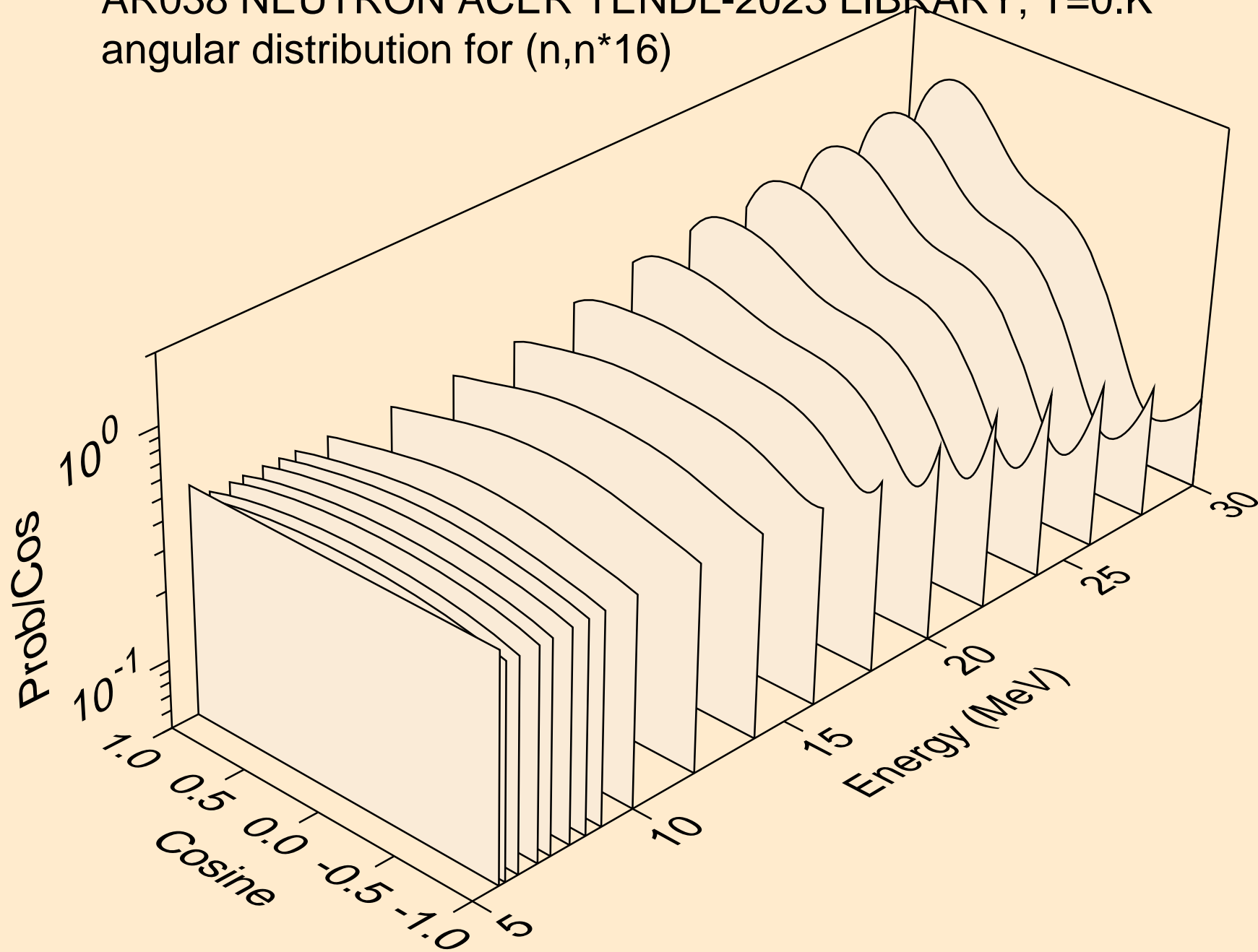
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angular distribution for (n,n\*14)



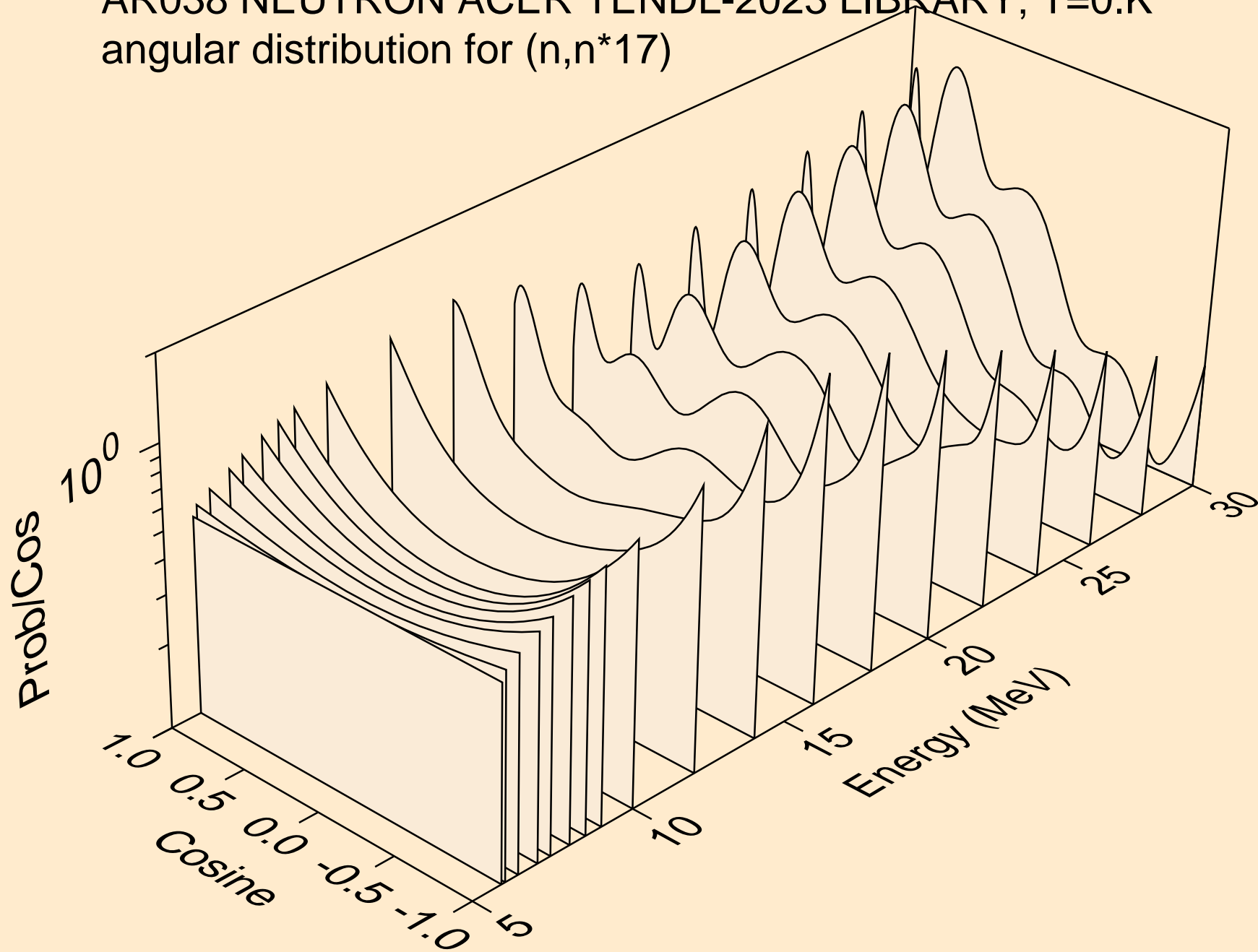
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angular distribution for (n,n\*15)



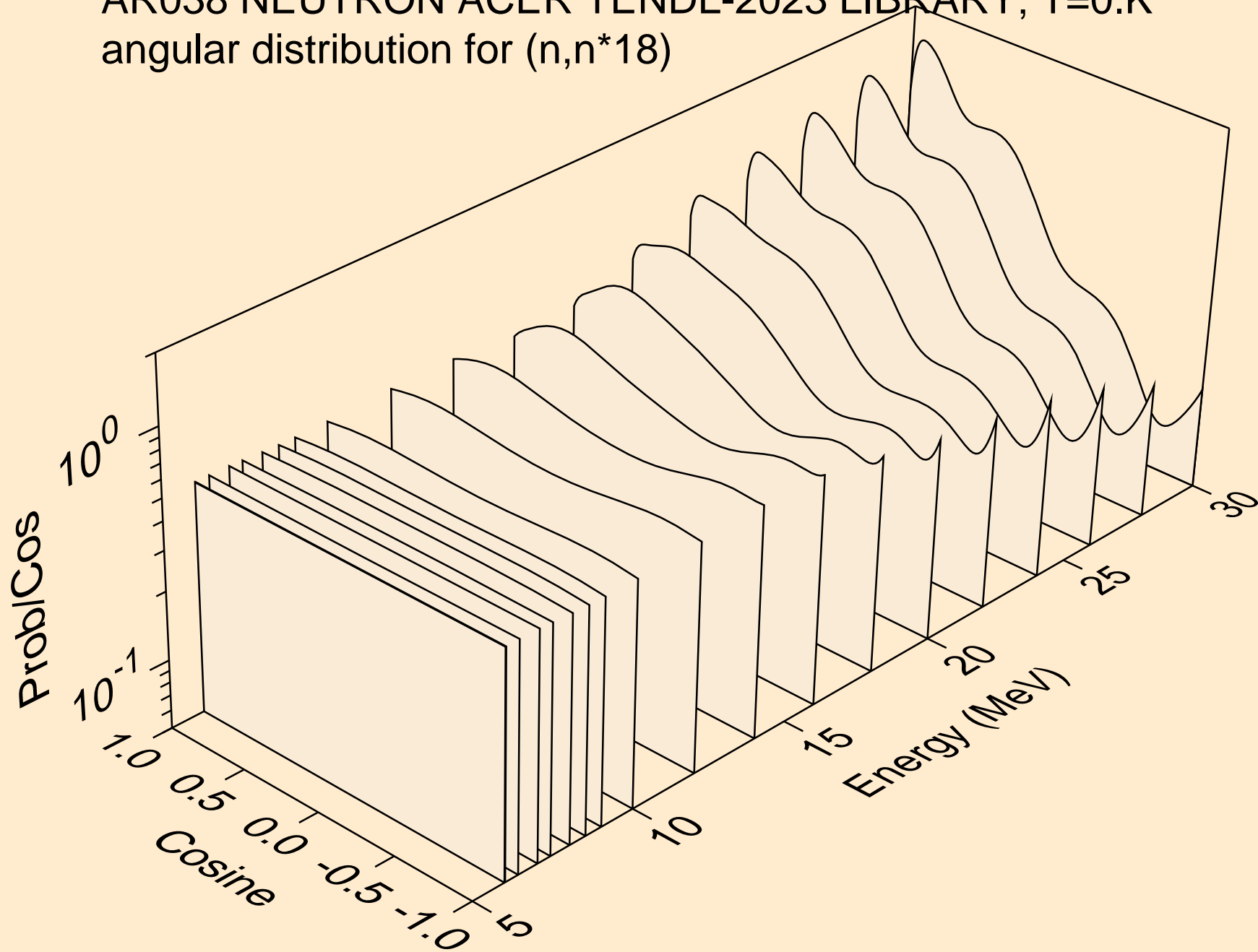
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angular distribution for (n,n\*16)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)

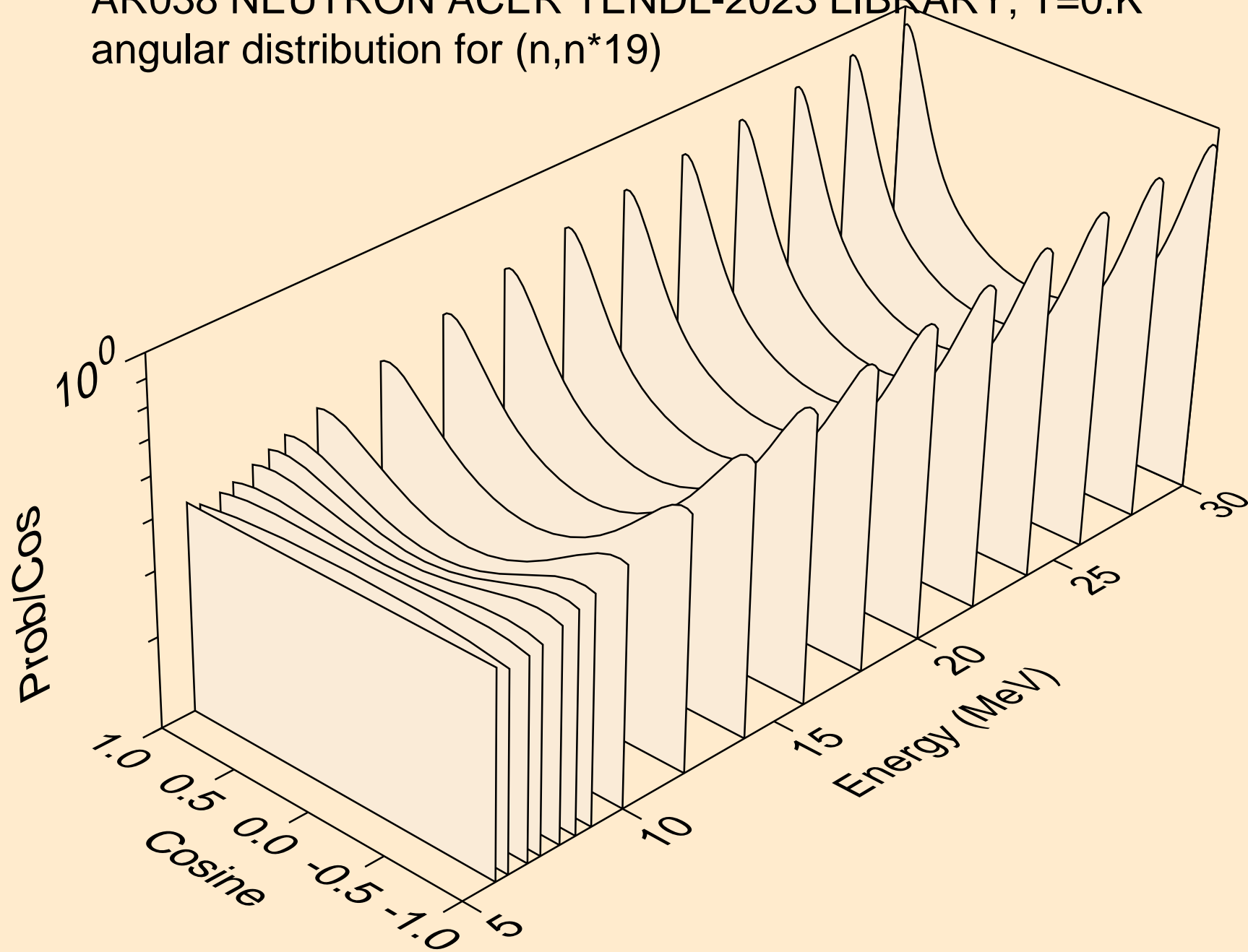


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angular distribution for (n,n\*18)

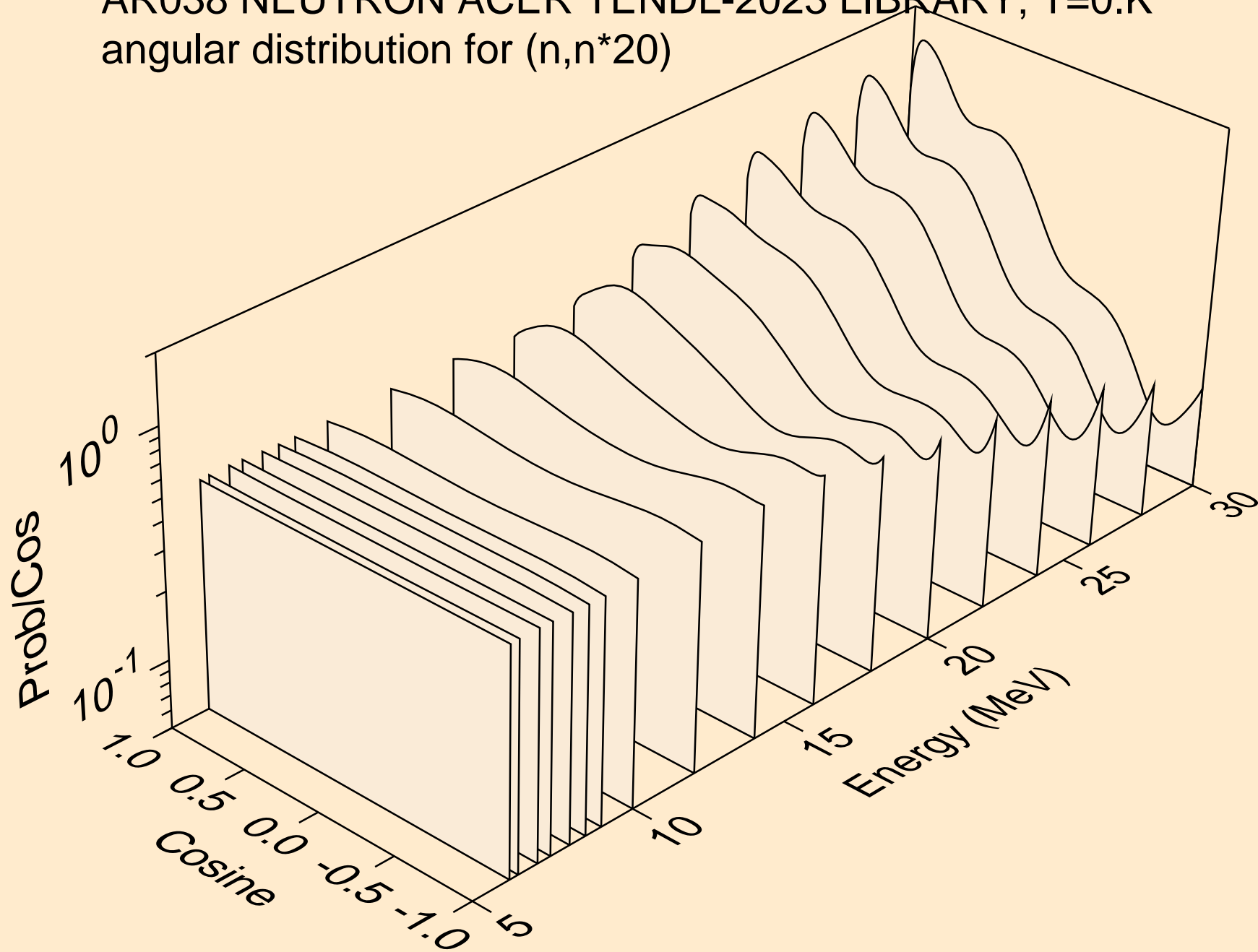




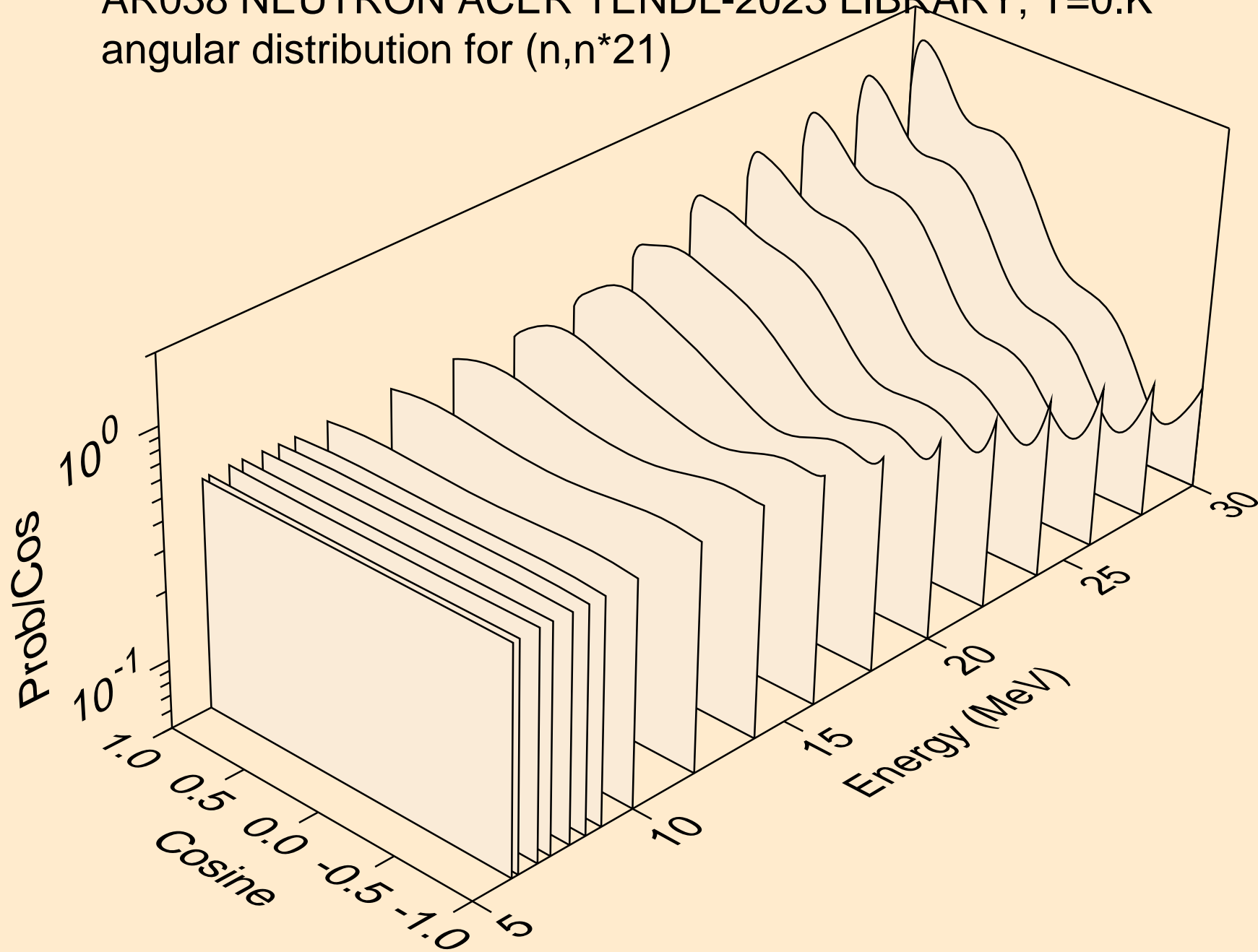
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angular distribution for (n,n\*19)



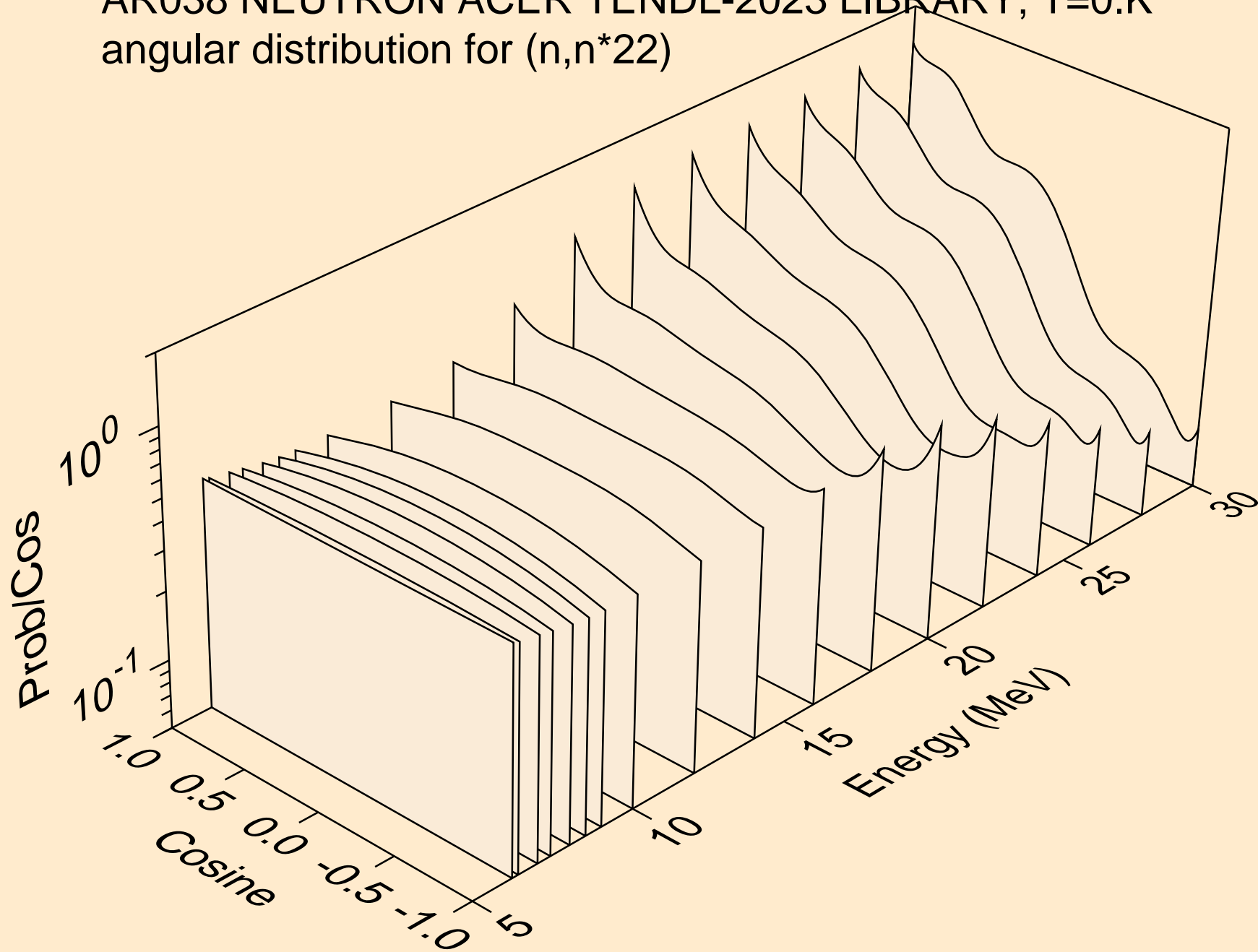
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angular distribution for (n,n\*20)



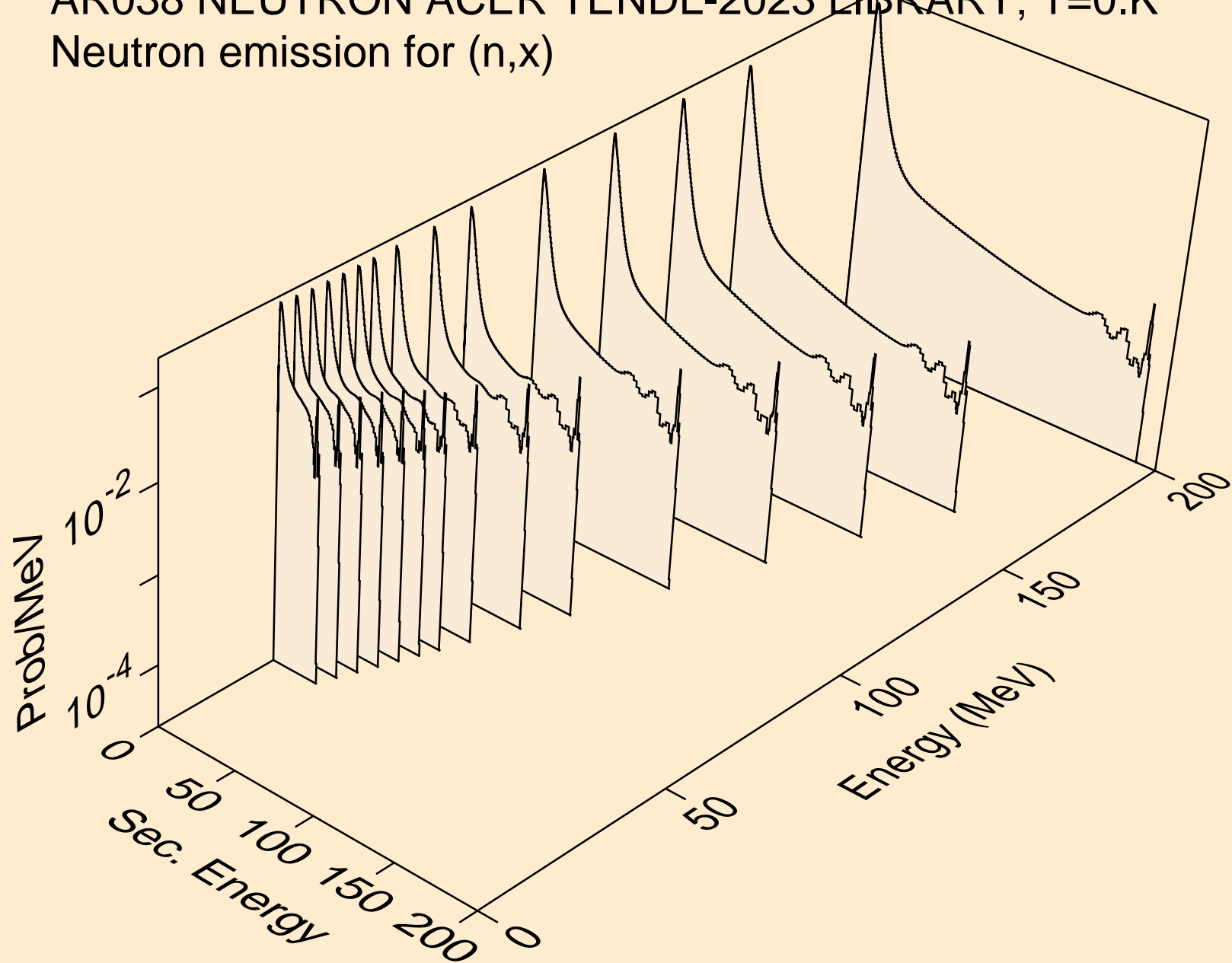
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angular distribution for (n,n\*21)



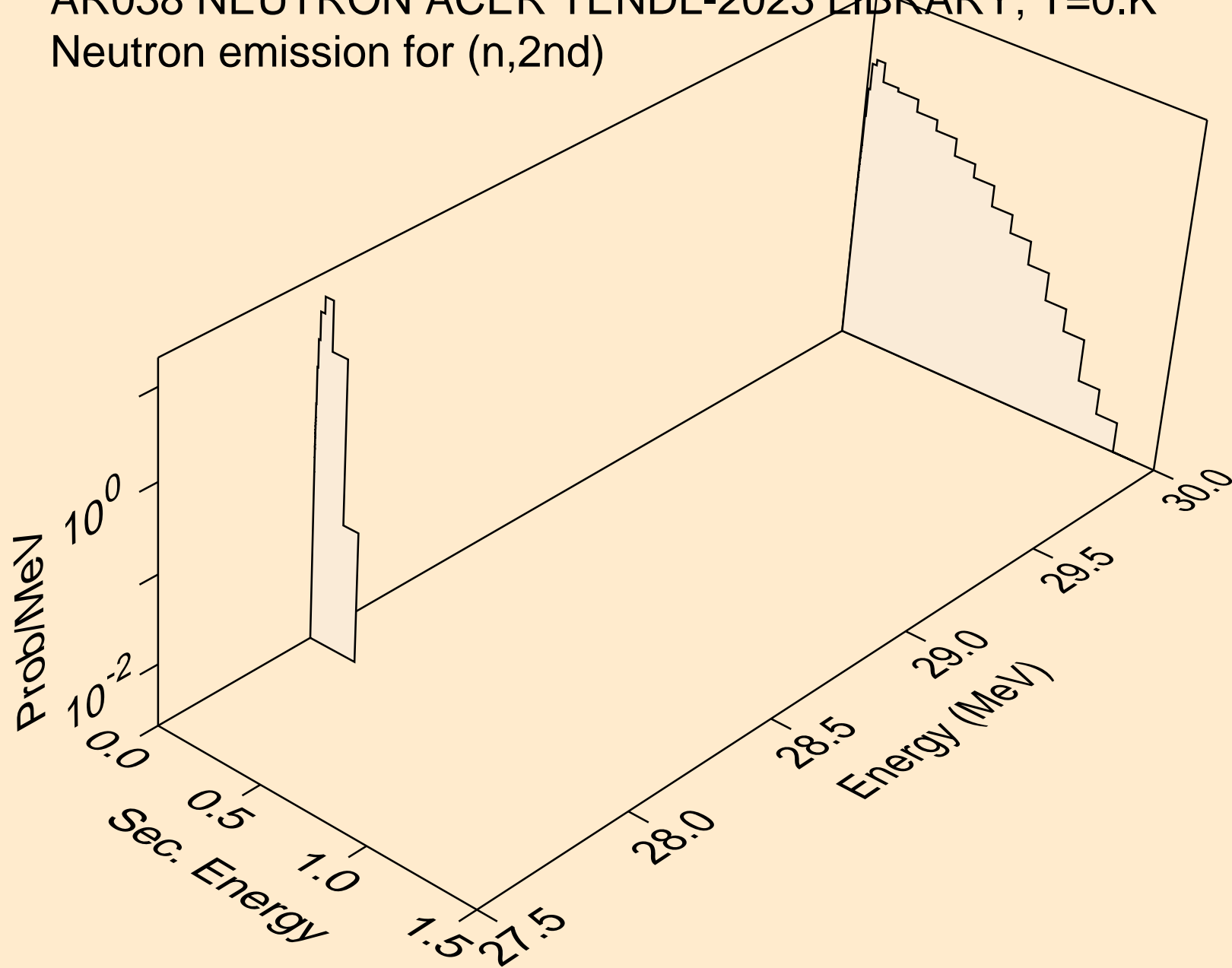
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angular distribution for (n,n\*22)



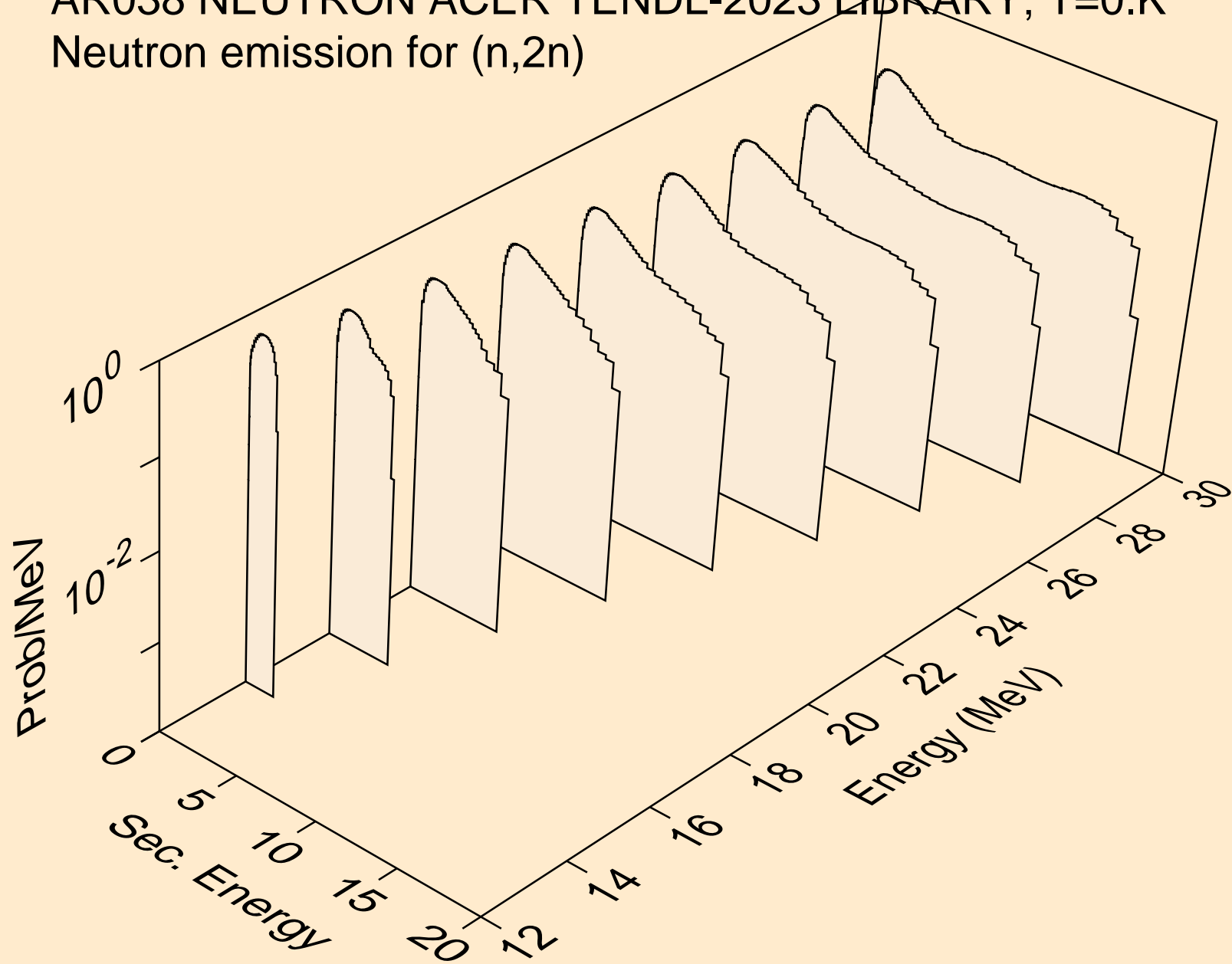
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Neutron emission for (n,x)



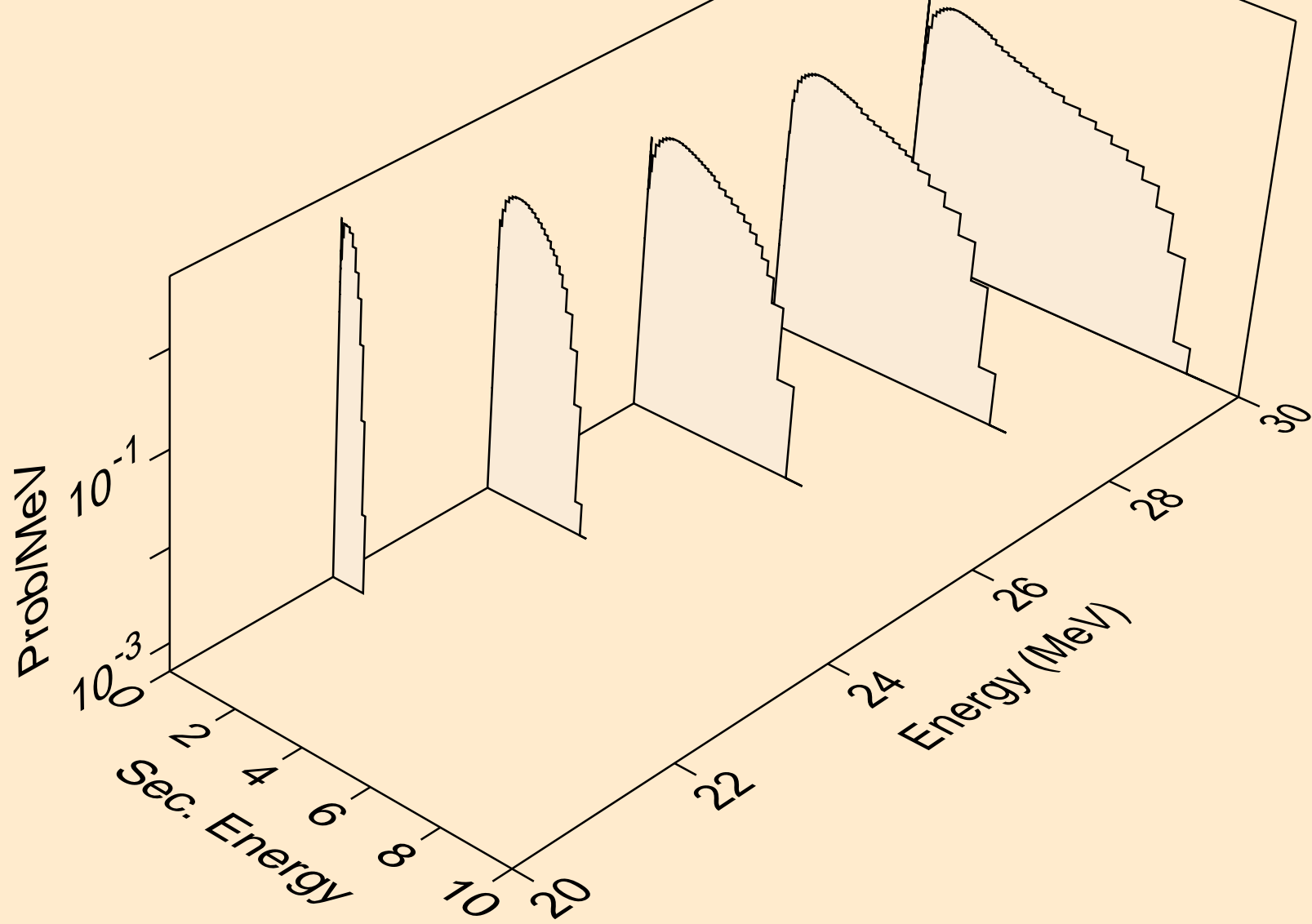
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)

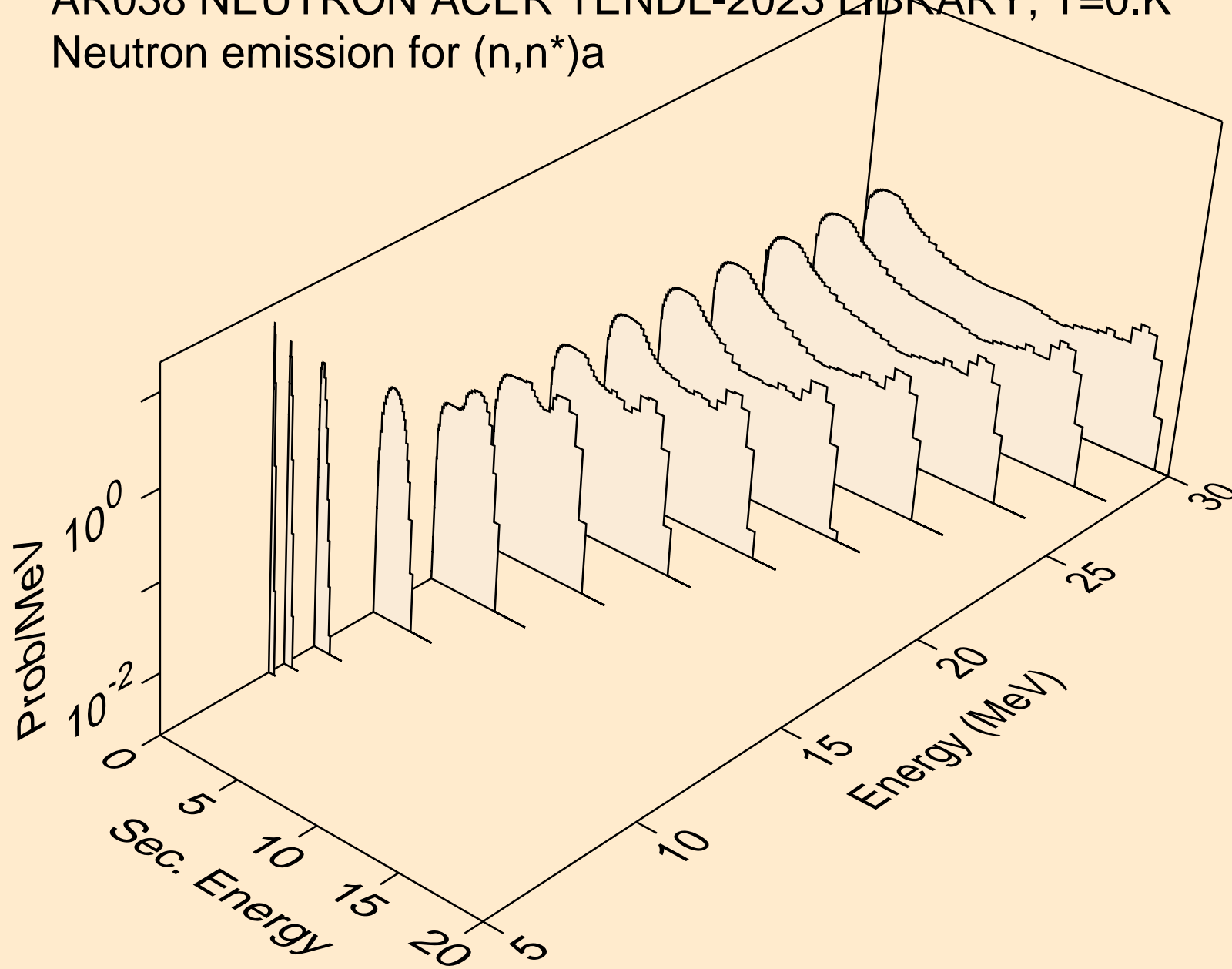


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Neutron emission for (n,3n)

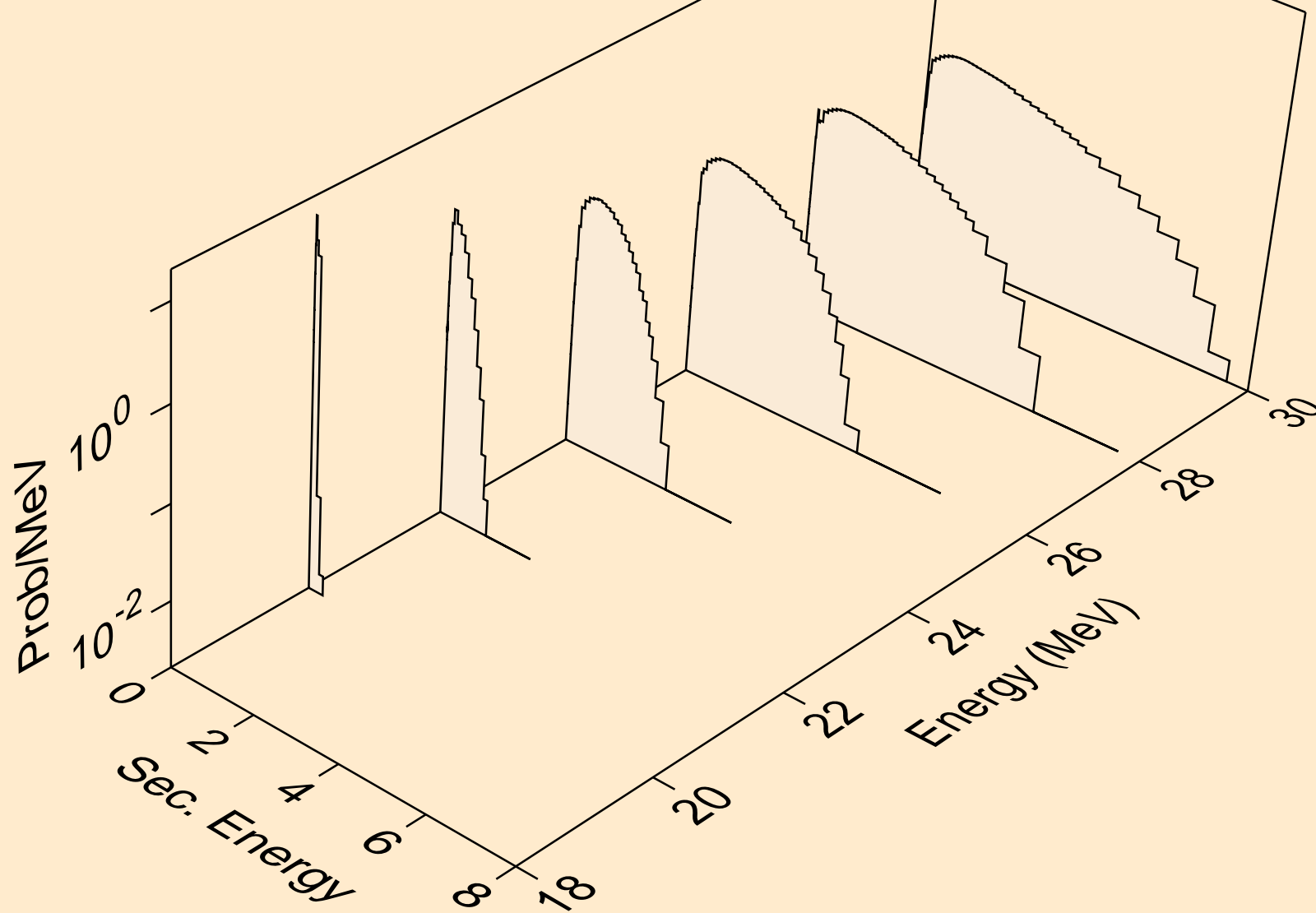




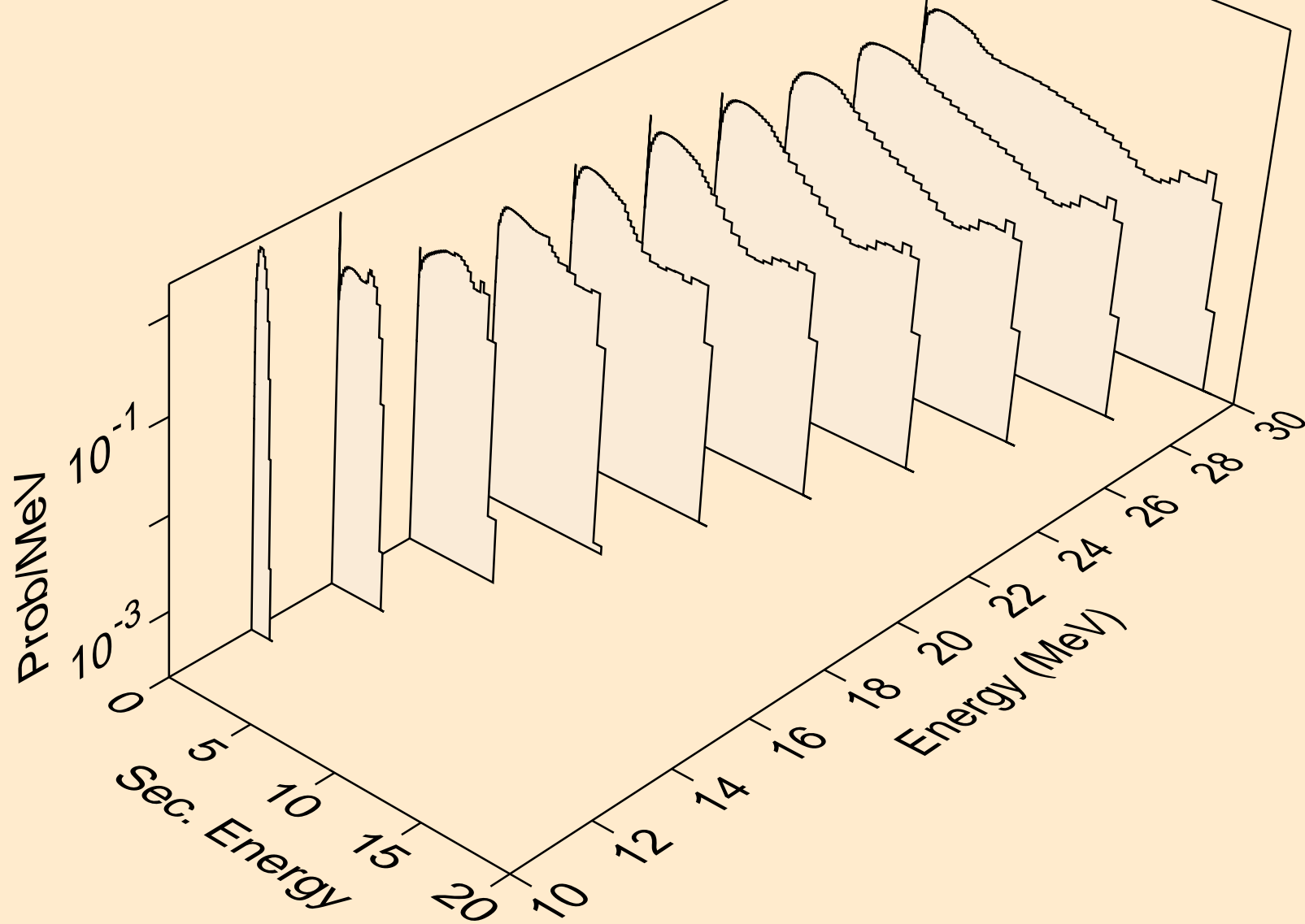
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Neutron emission for (n,n\*)a



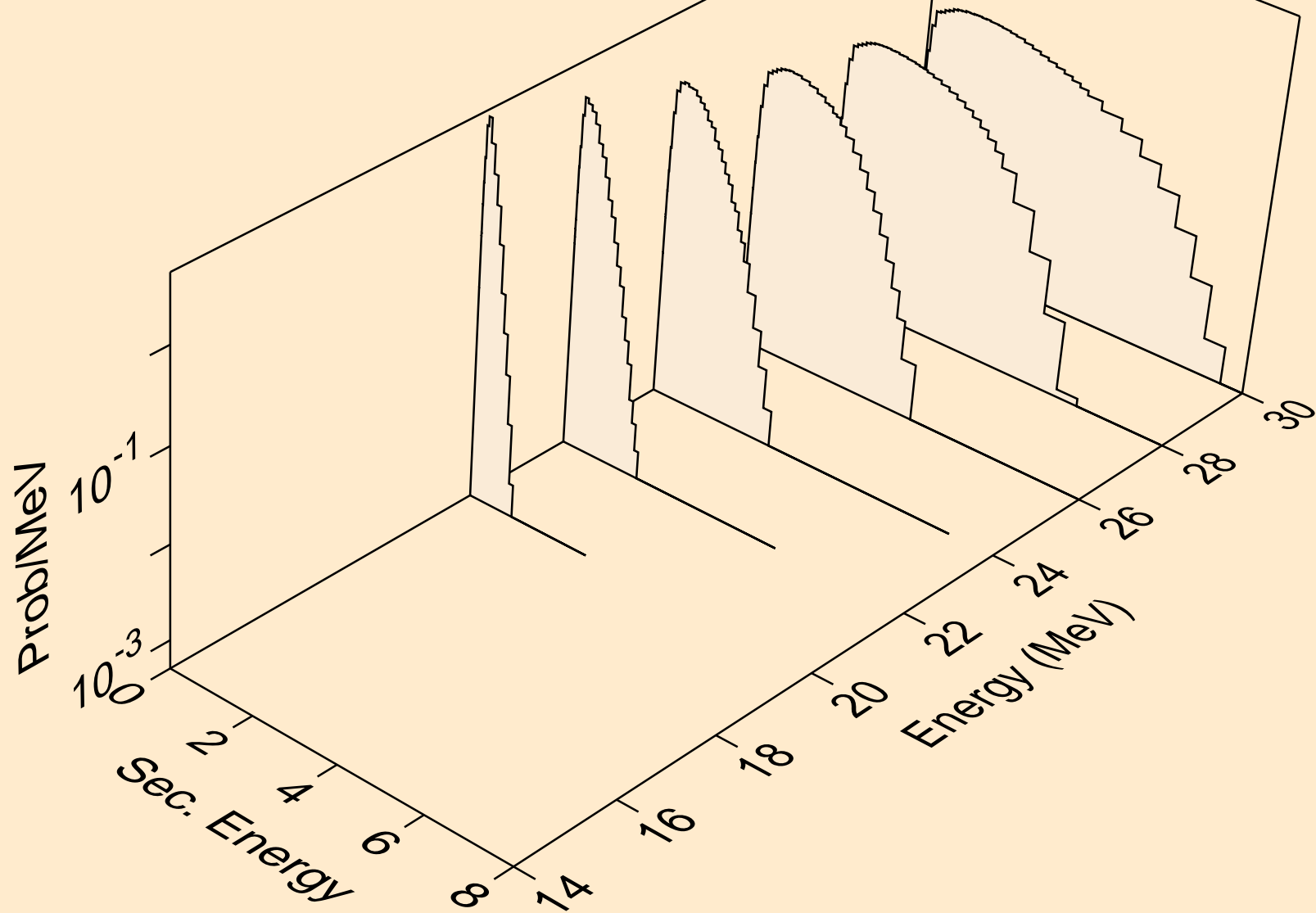
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Neutron emission for (n,2n)a



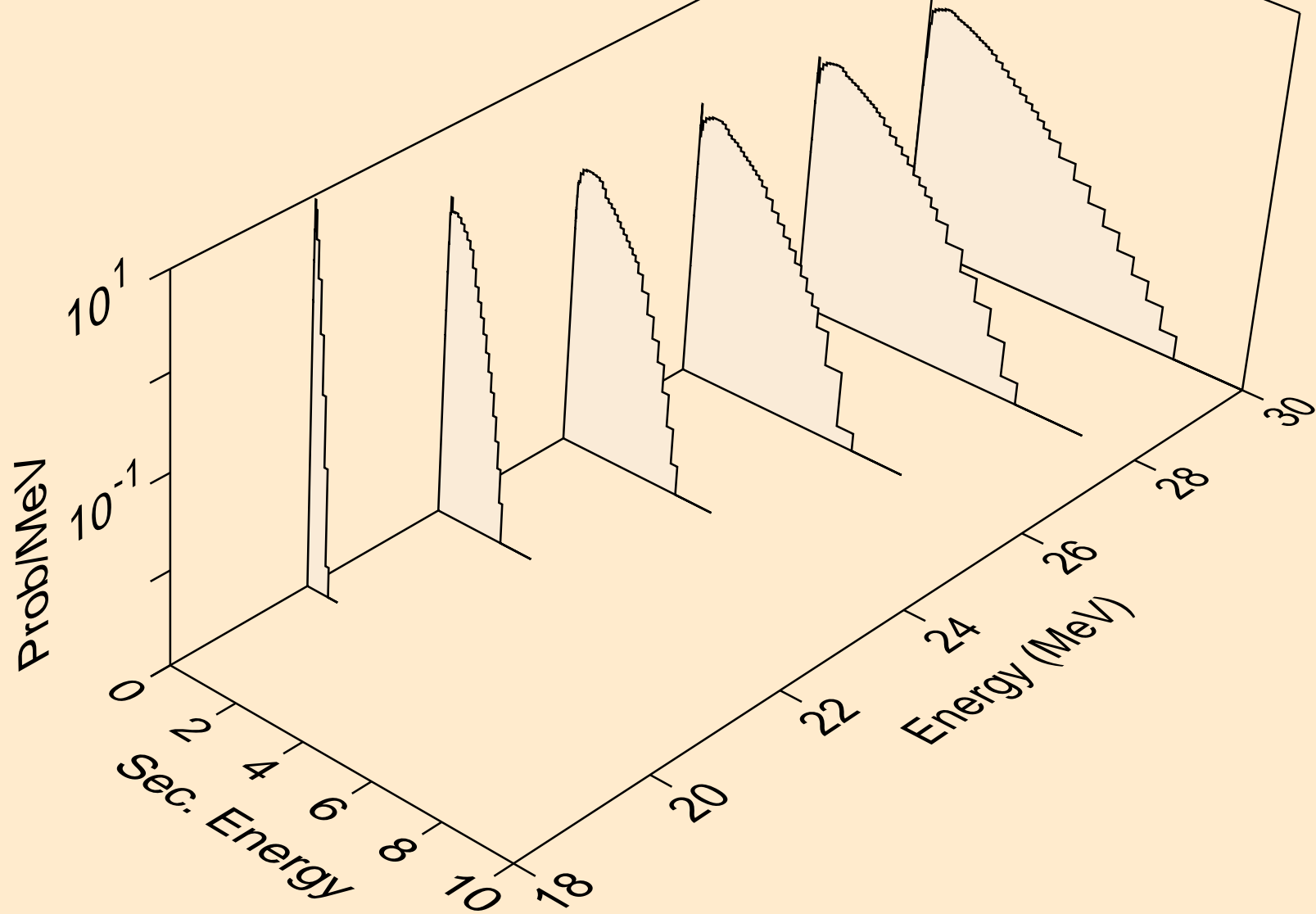
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Neutron emission for (n,n\*)p



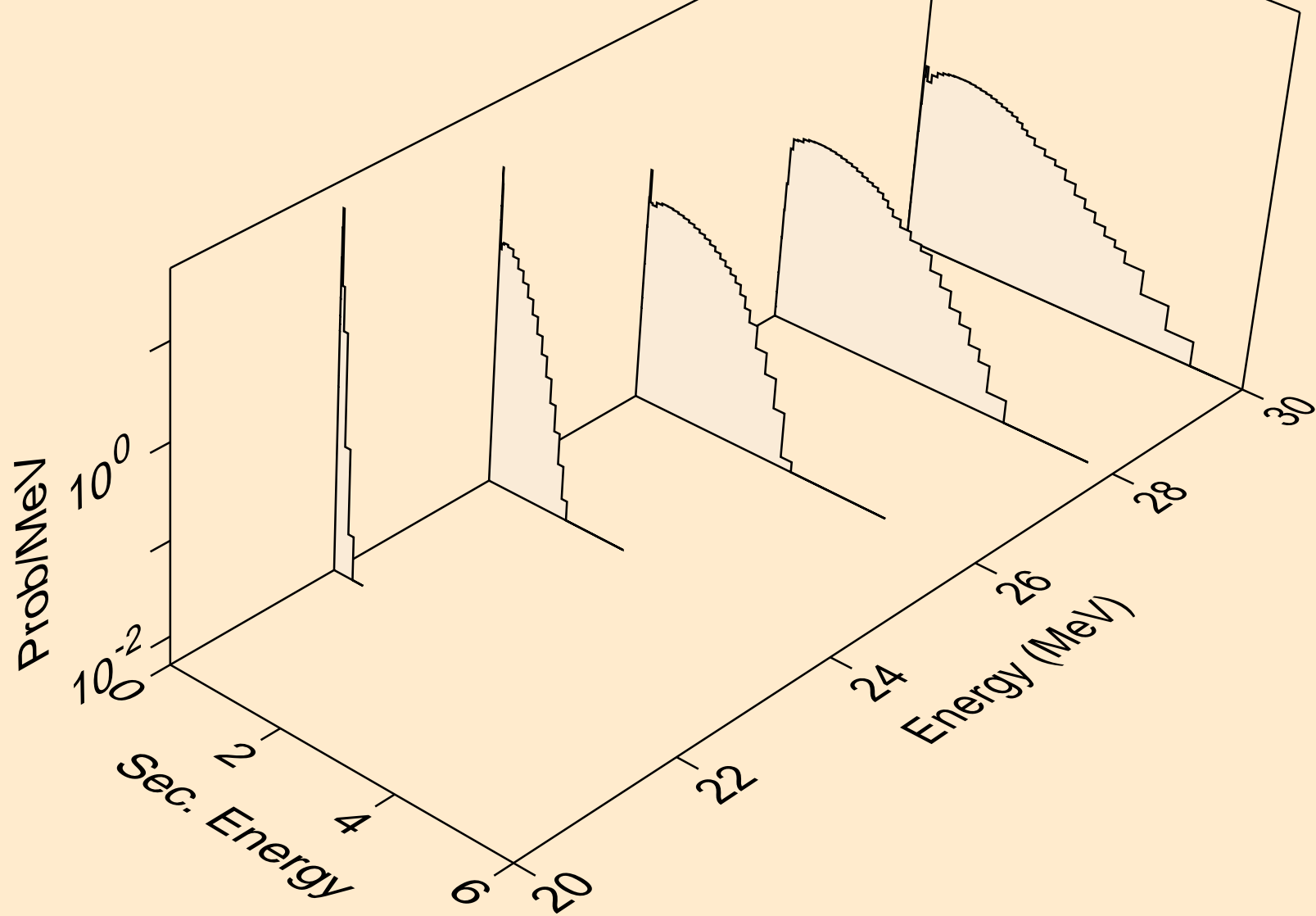
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Neutron emission for (n,n\*)2a



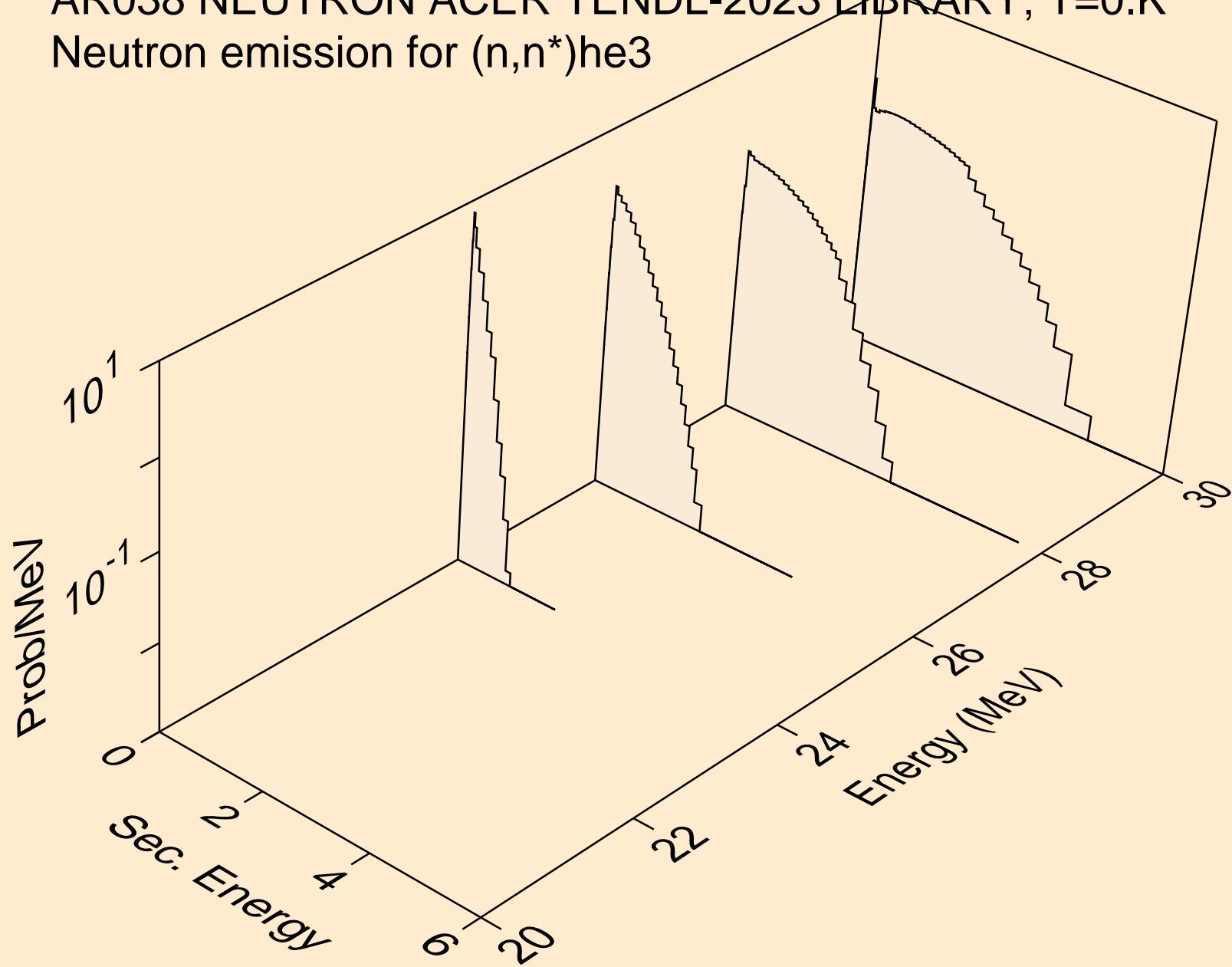
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Neutron emission for (n,n\*)d



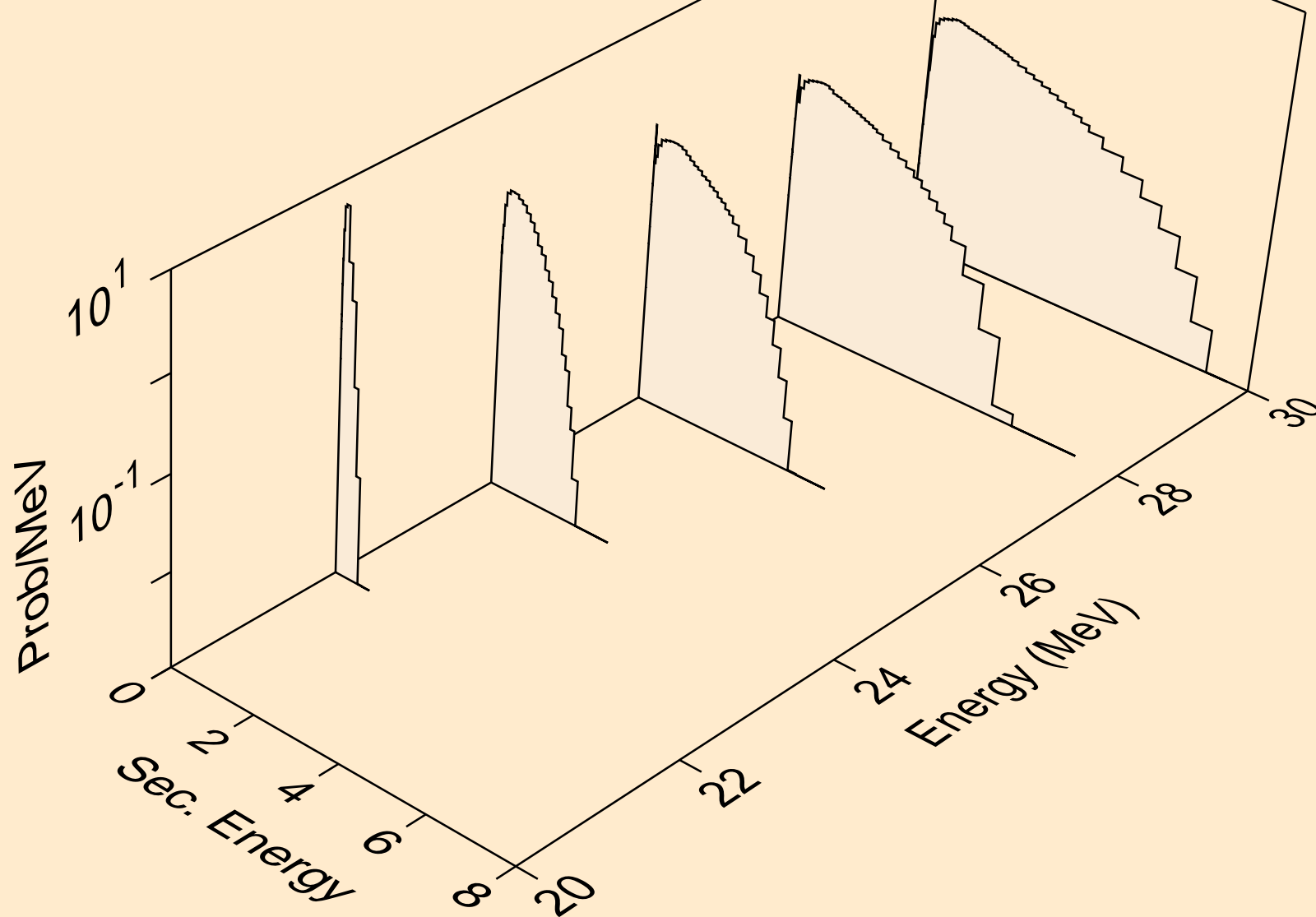
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

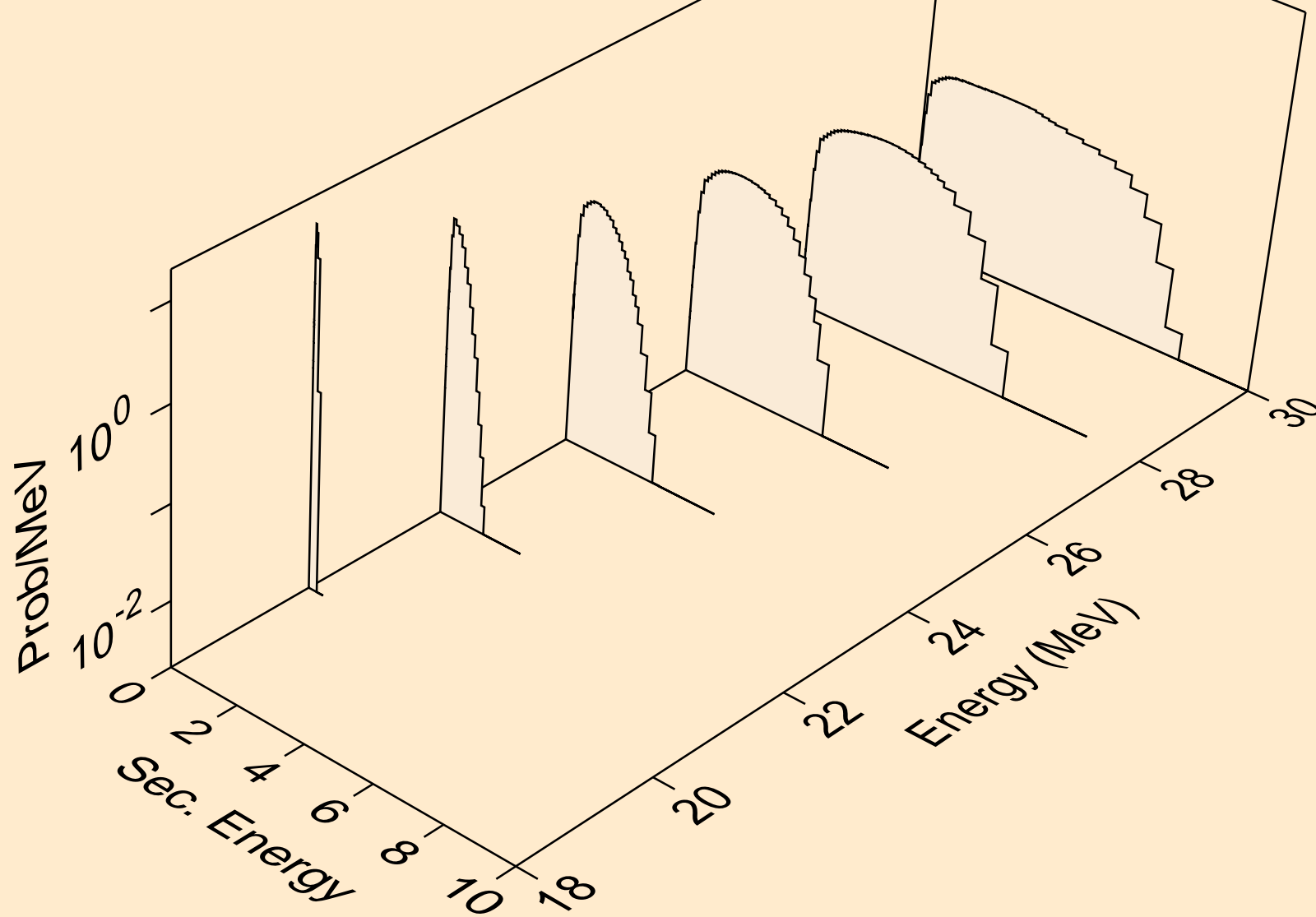


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

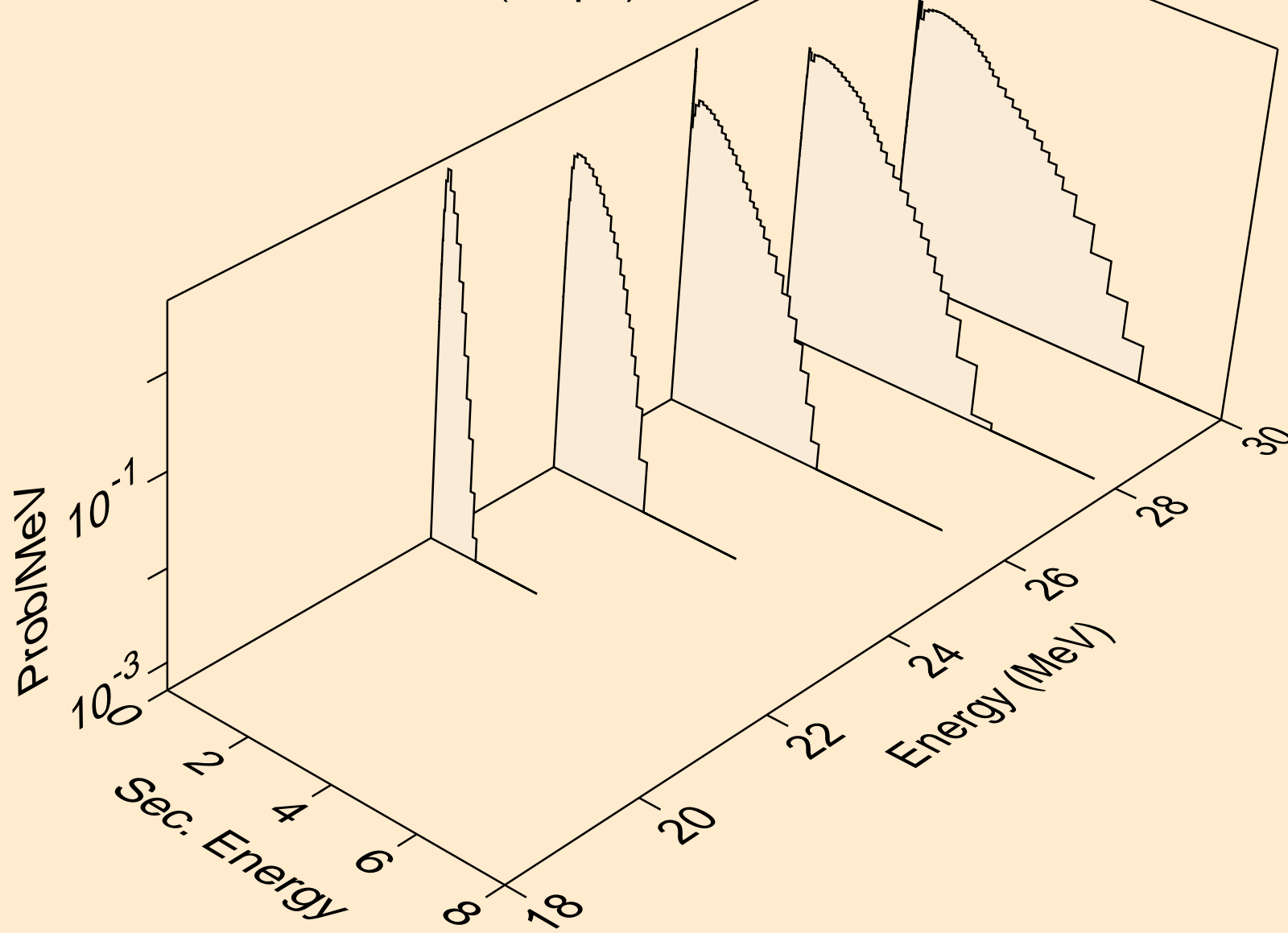




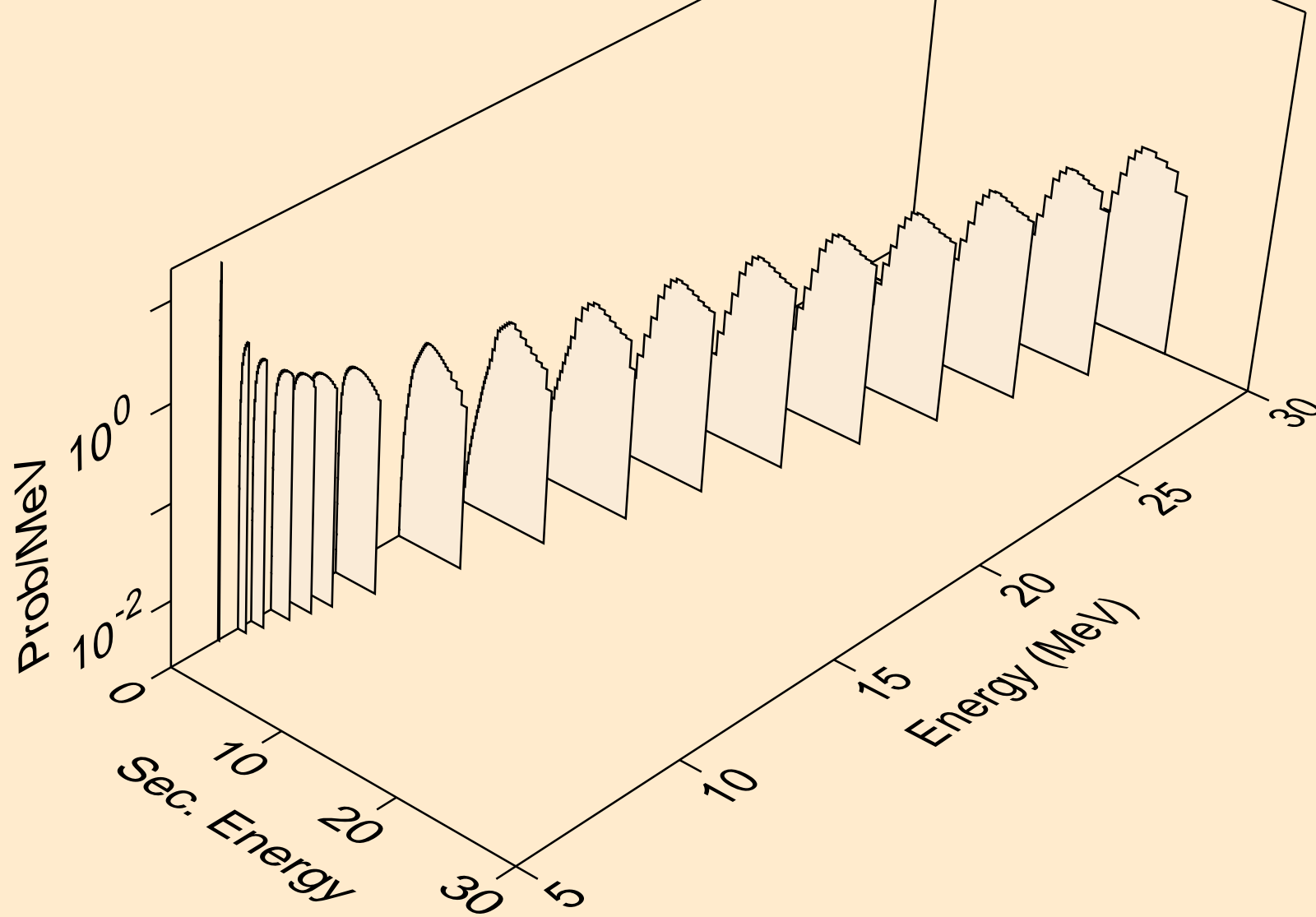
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Neutron emission for (n,n2p)



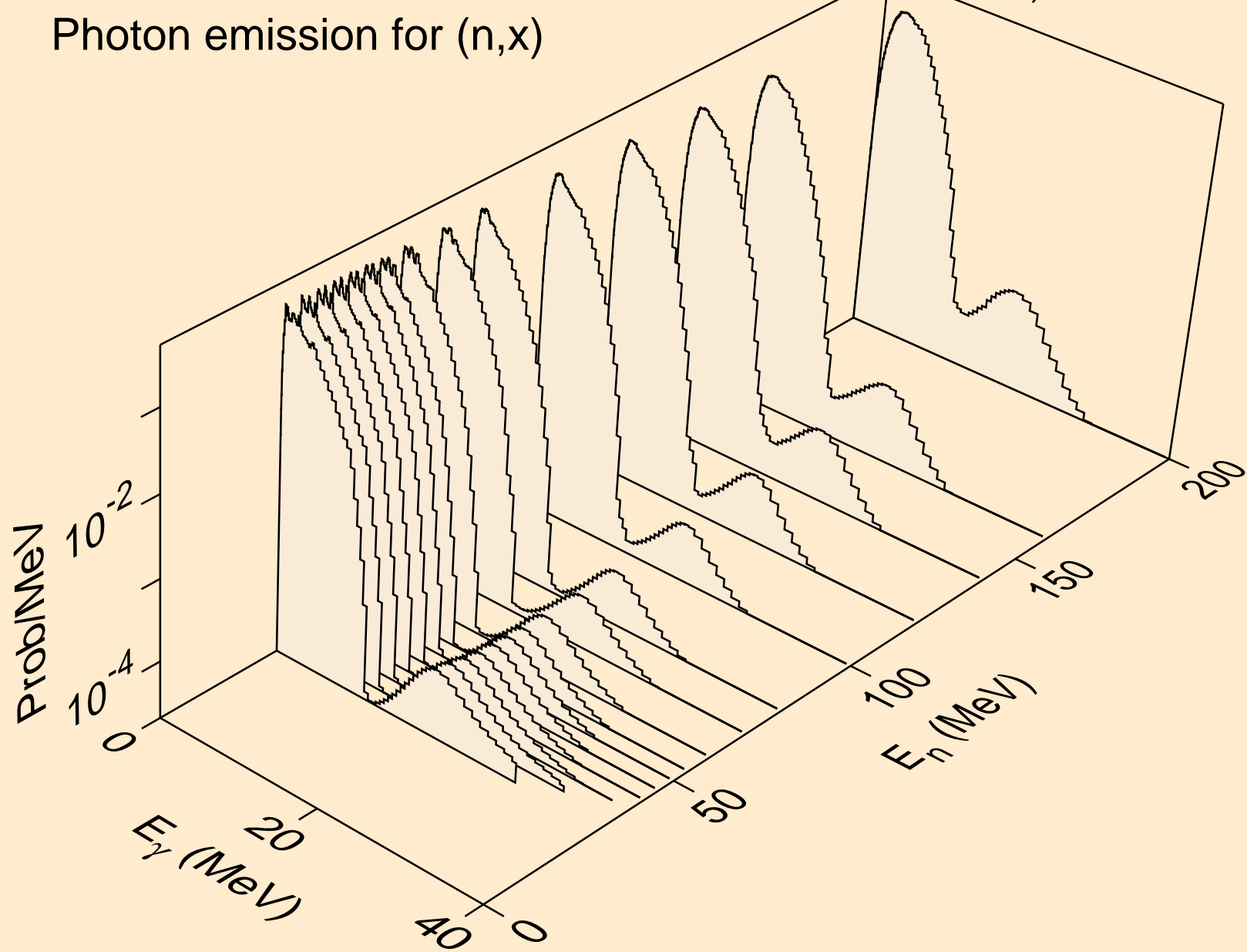
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Neutron emission for (n,npa)



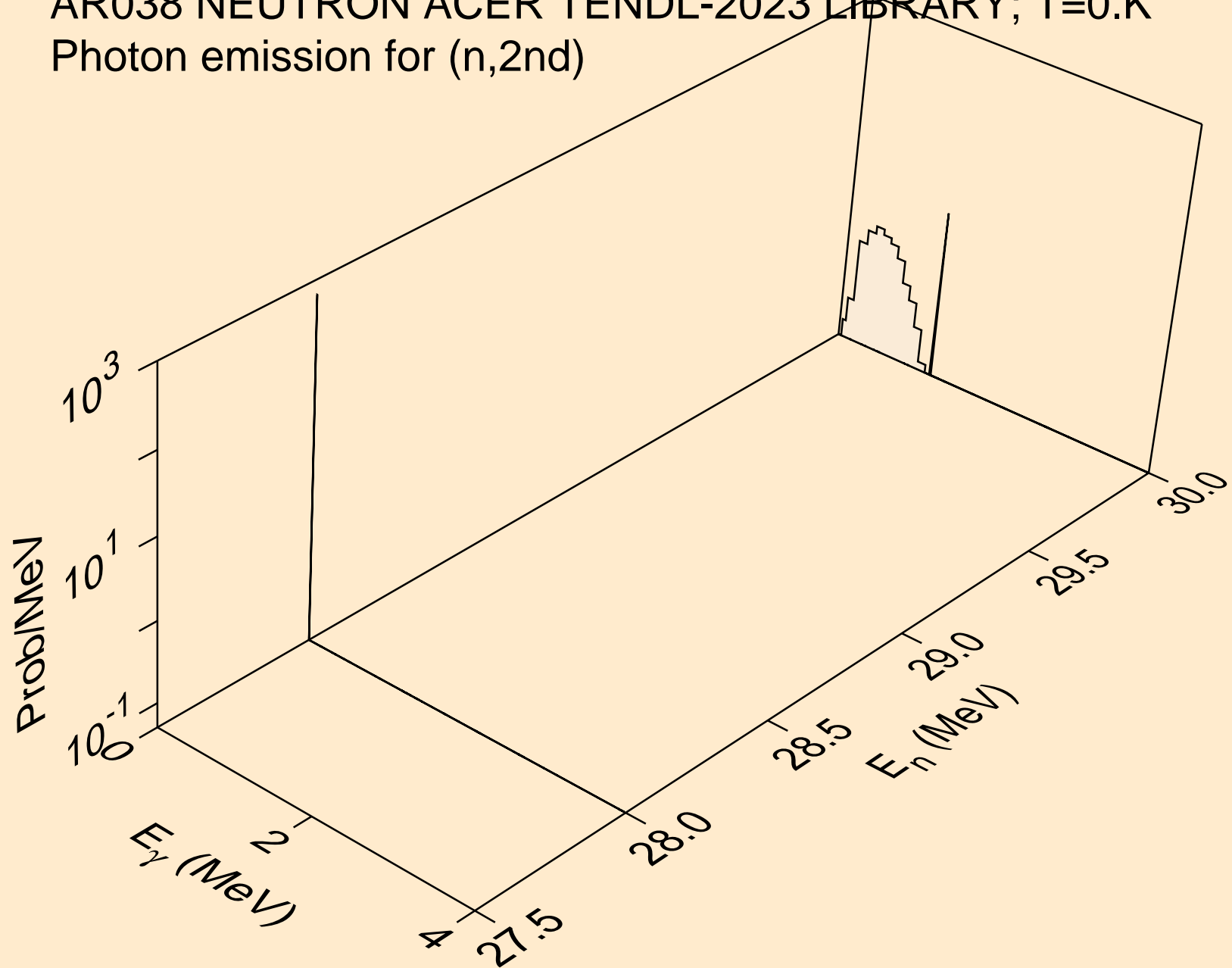
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



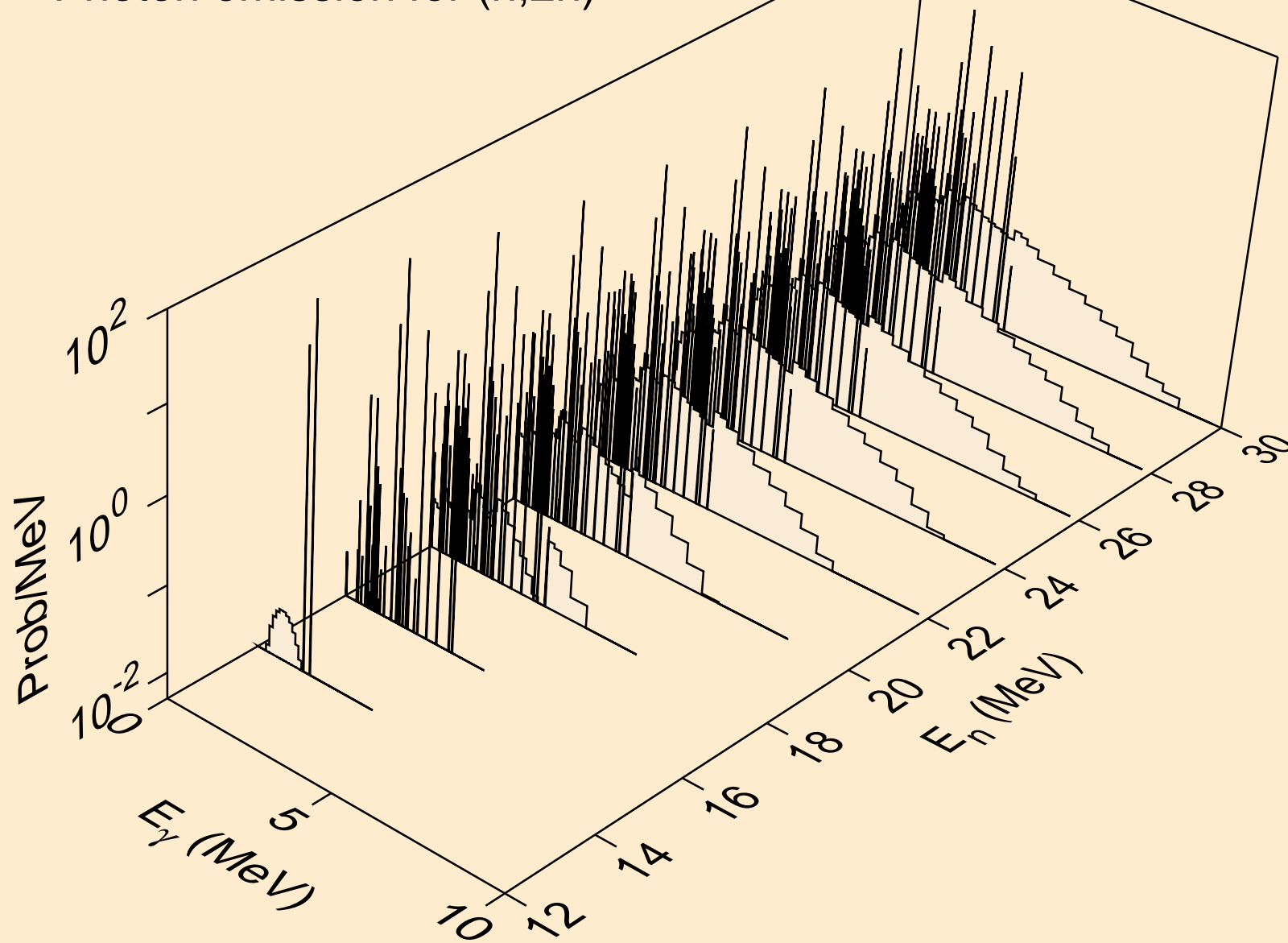
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



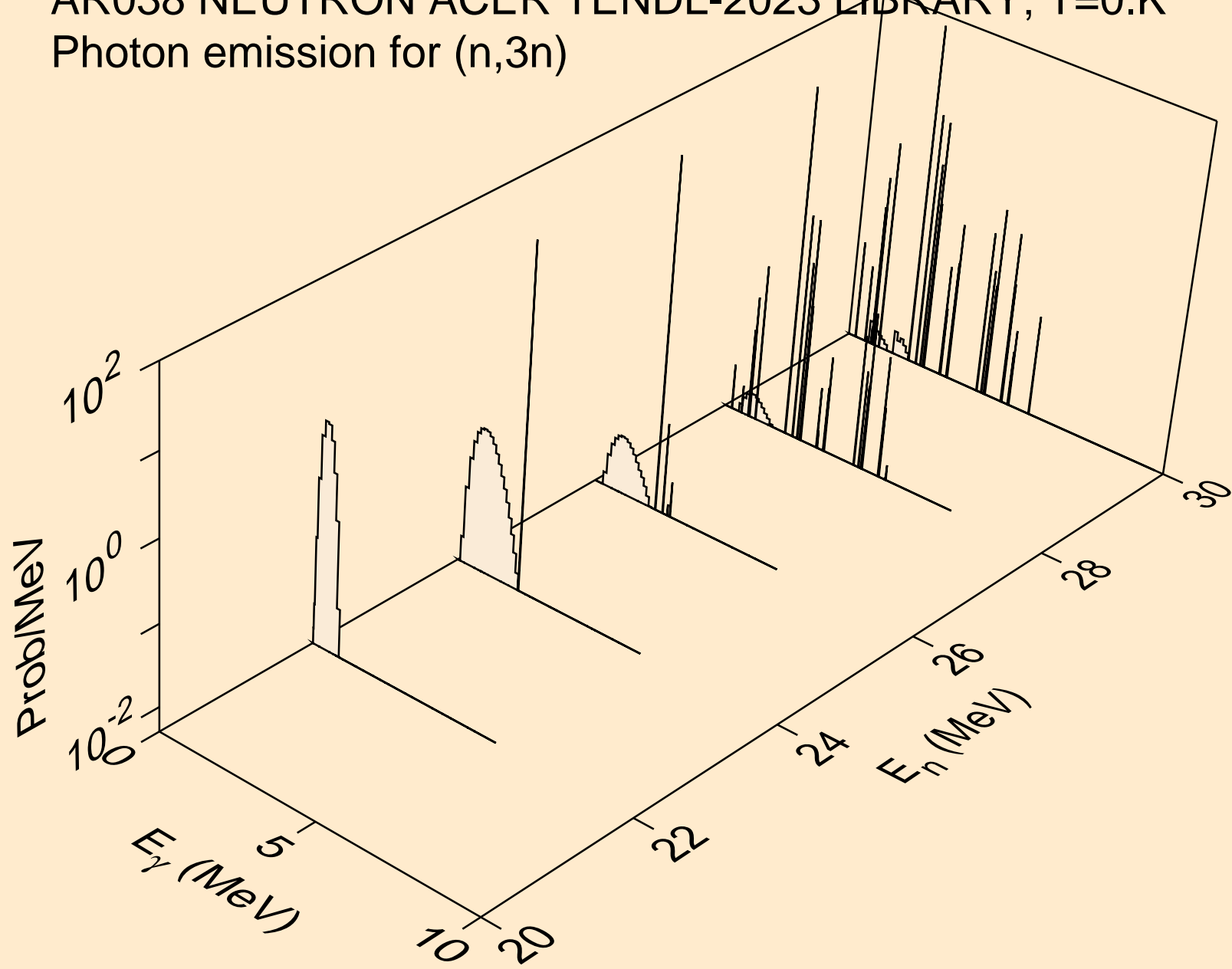
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



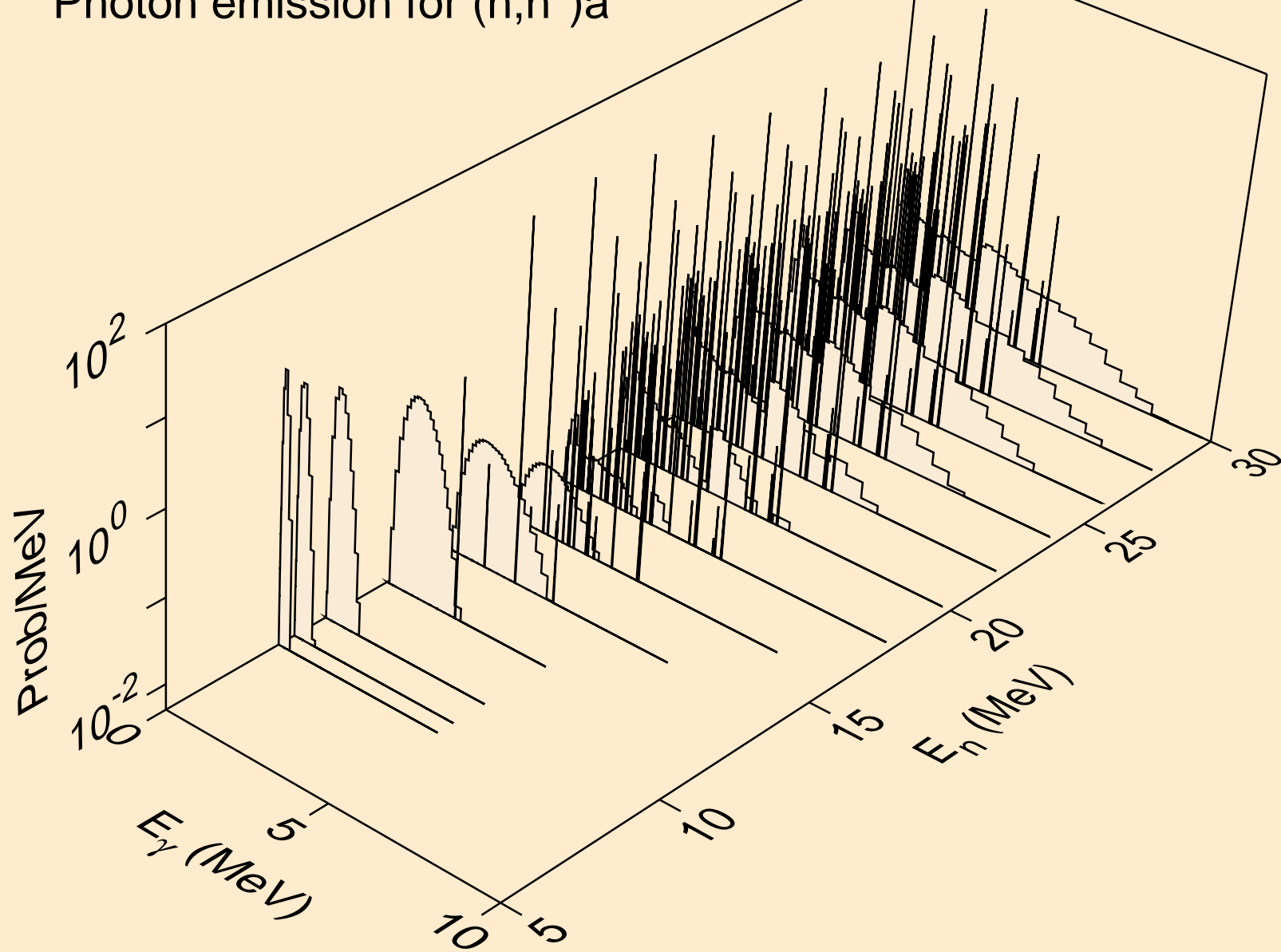
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

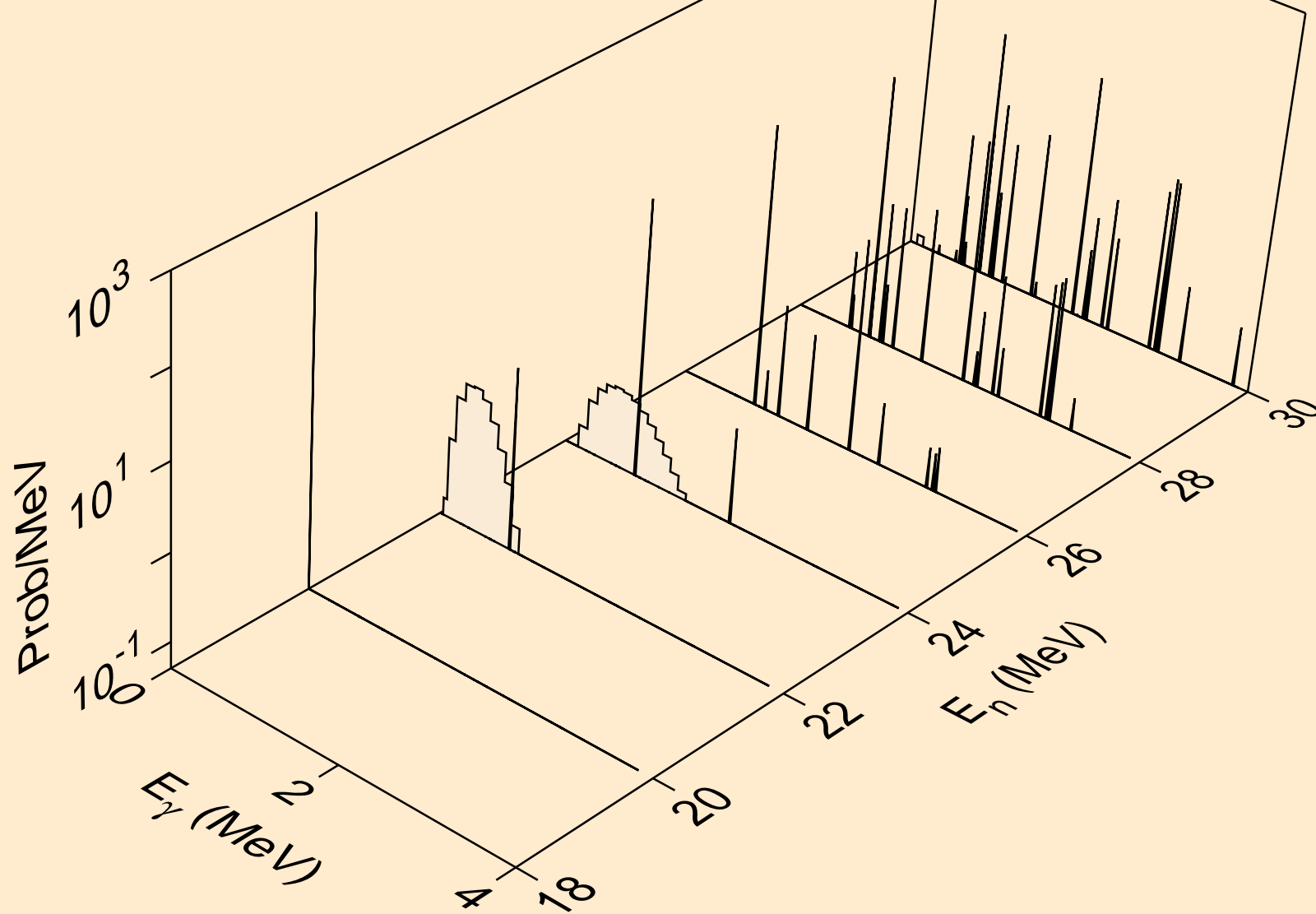


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

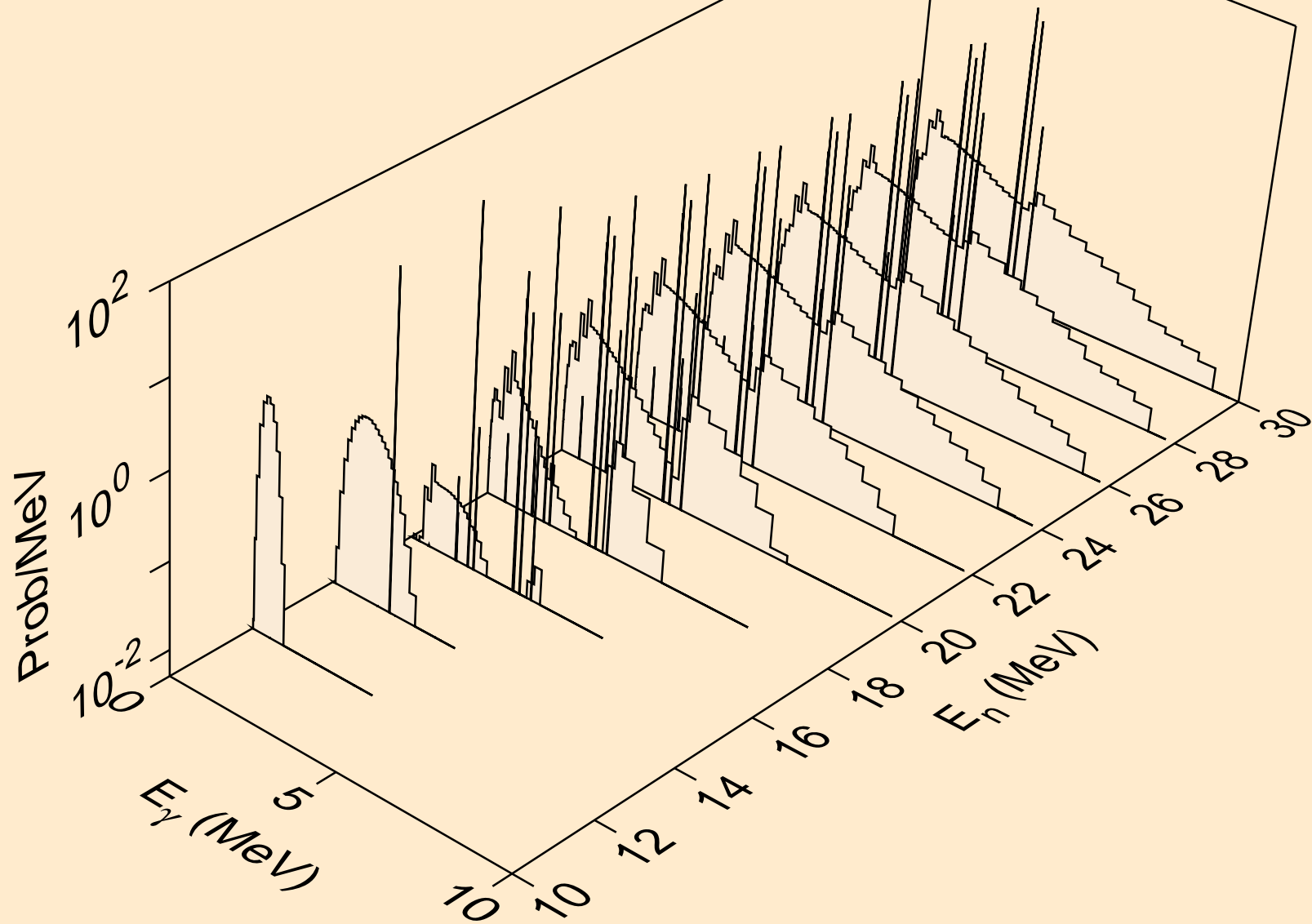




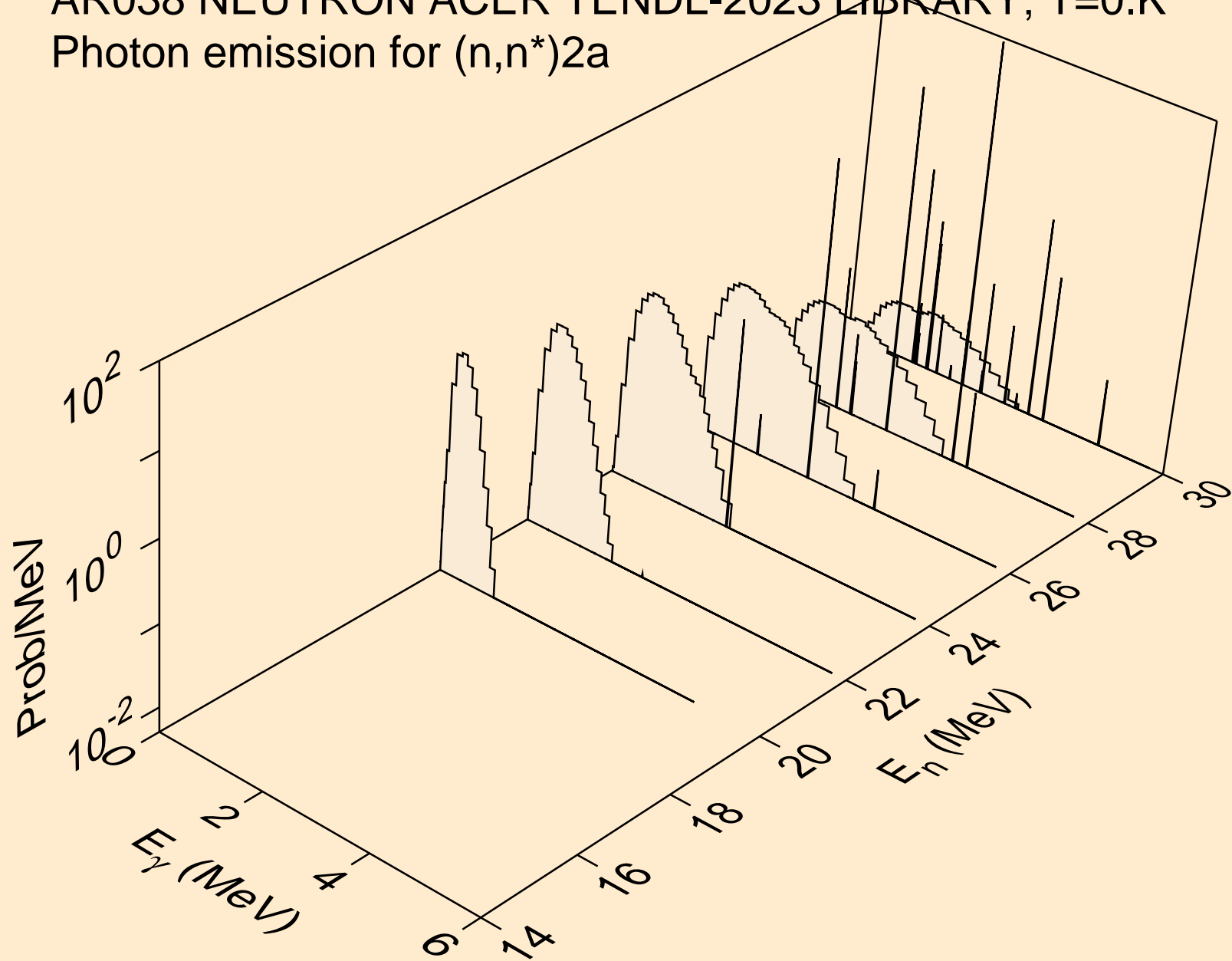
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Photon emission for (n,2n)a



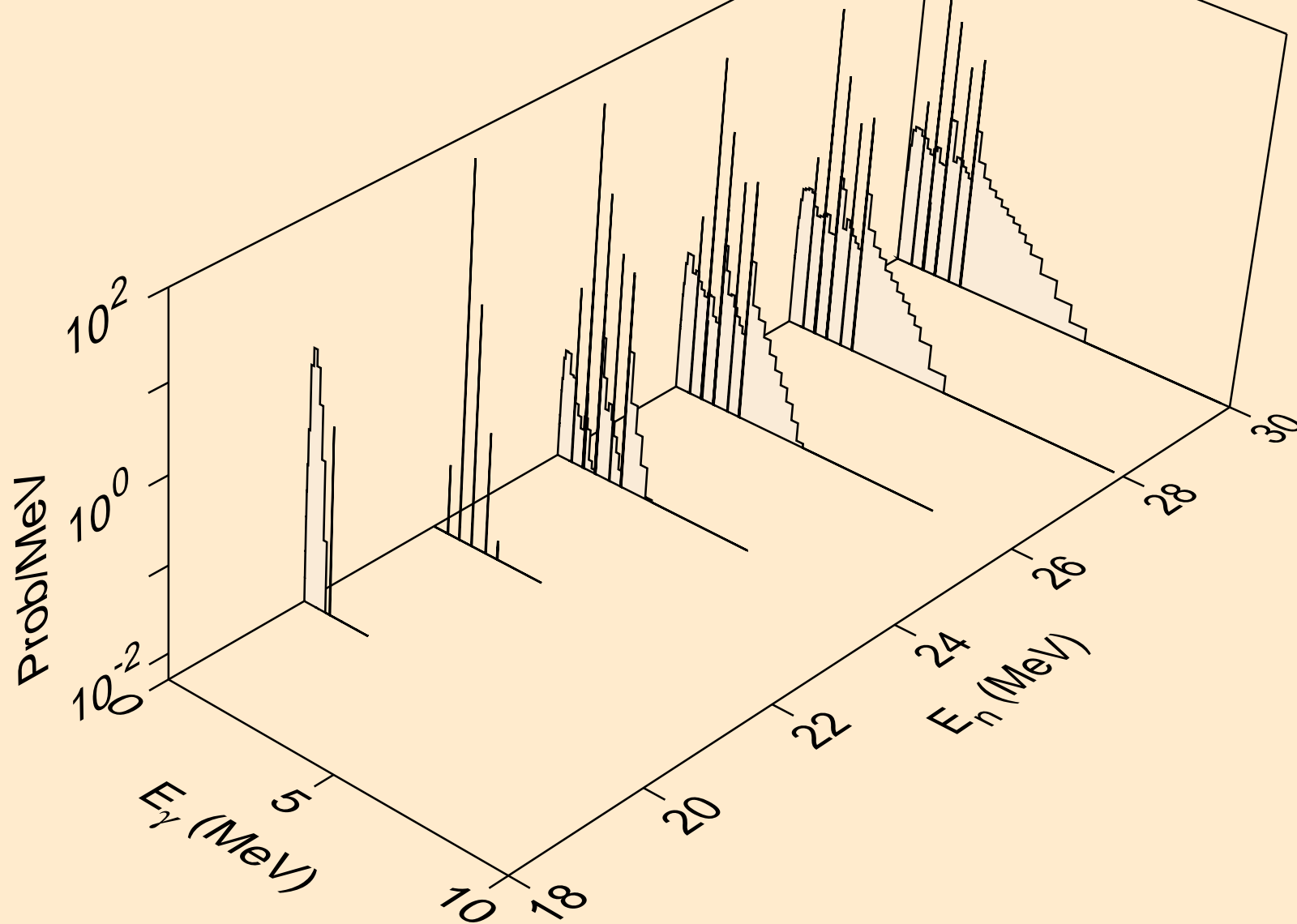
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Photon emission for (n,n\*)p



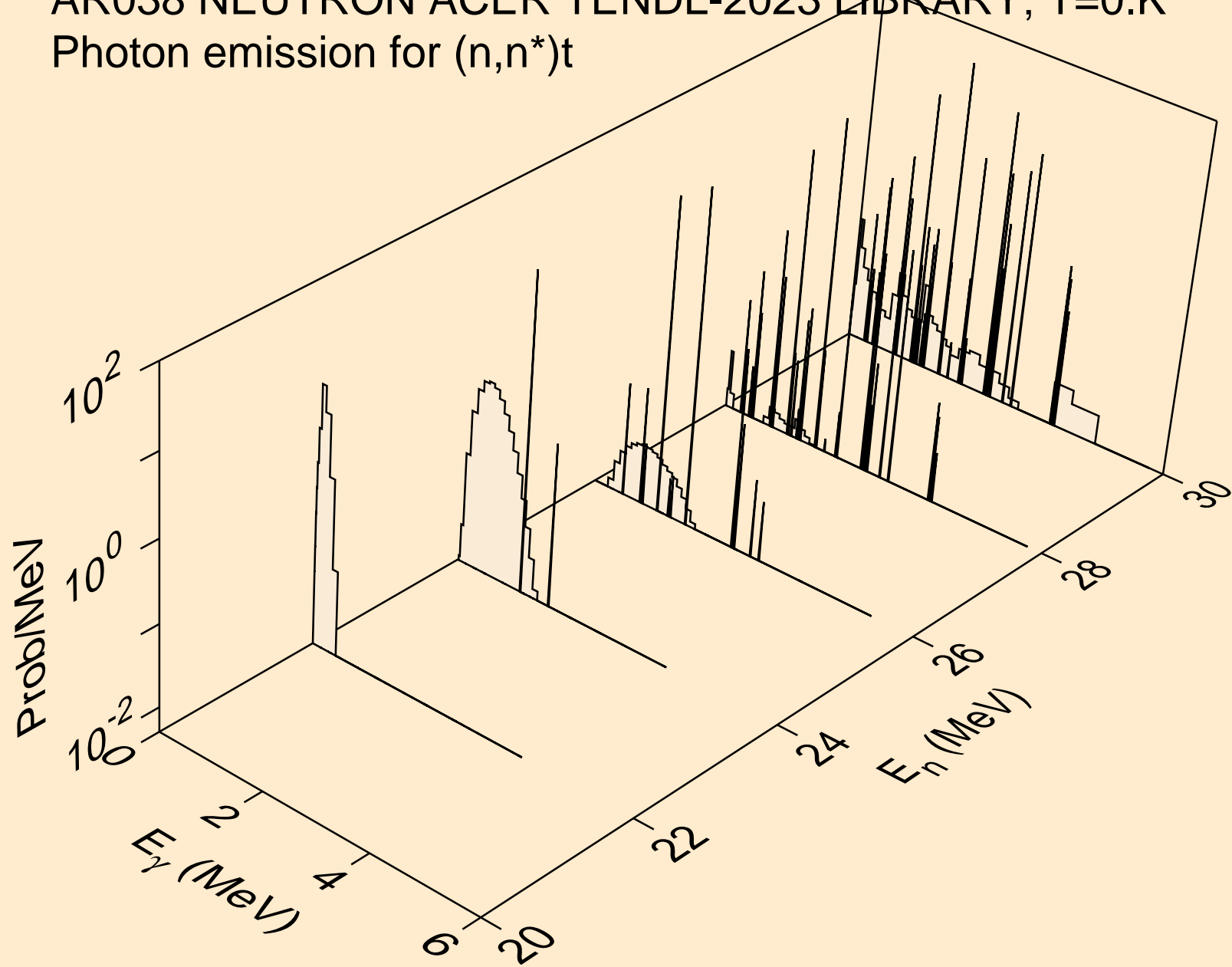
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Photon emission for (n,n\*)2a



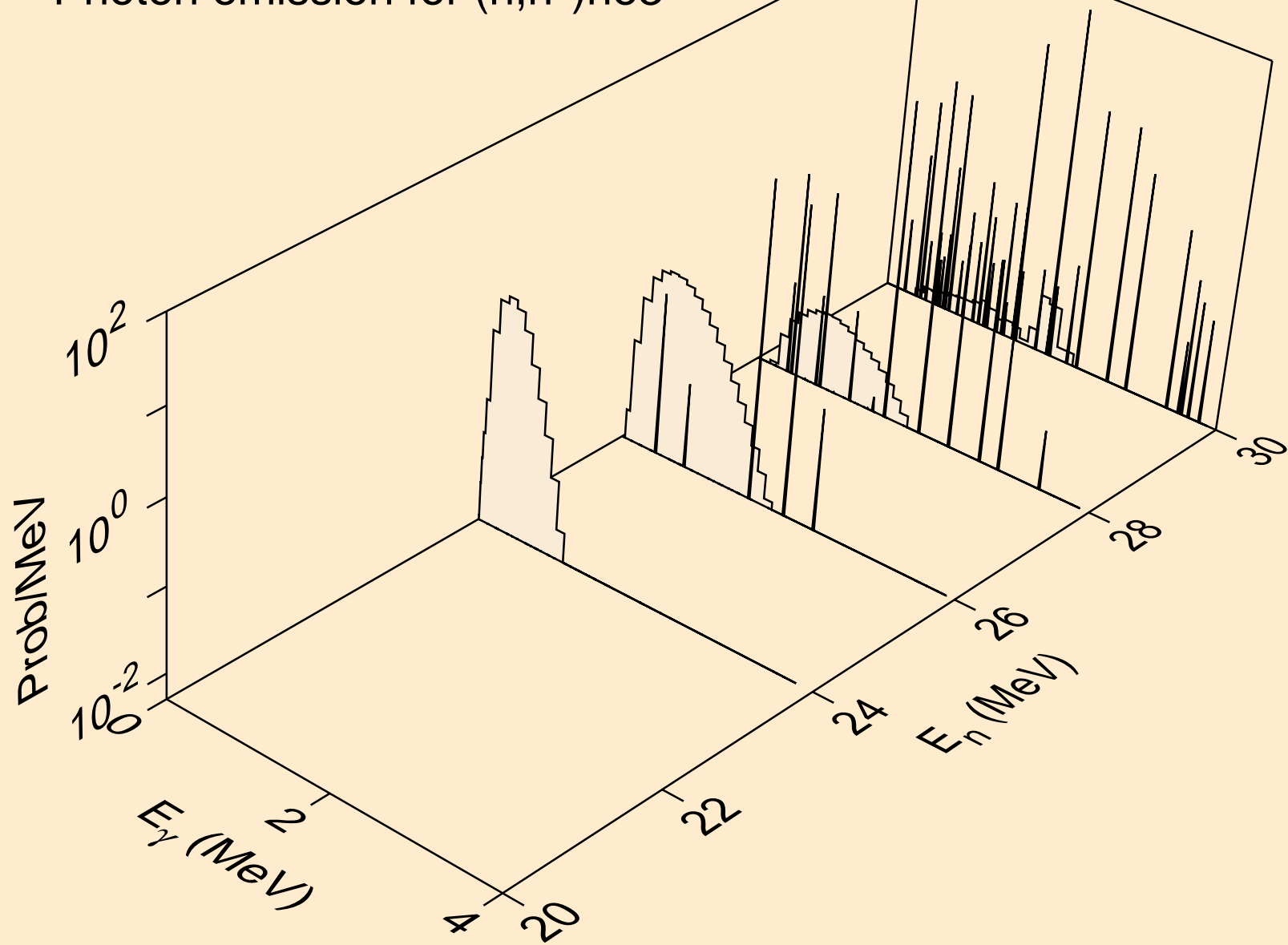
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Photon emission for (n,n\*)d



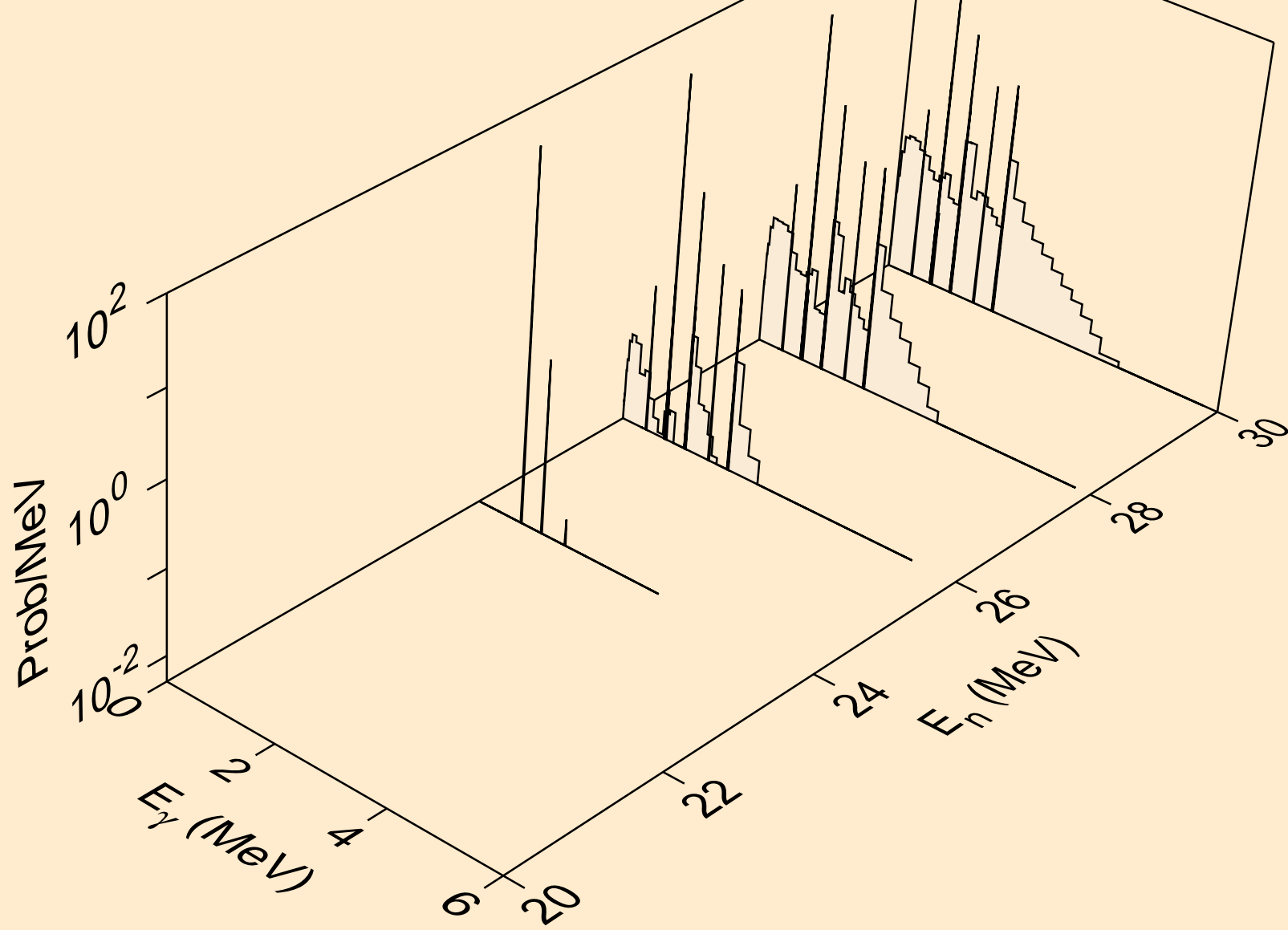
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Photon emission for (n,n\*)t



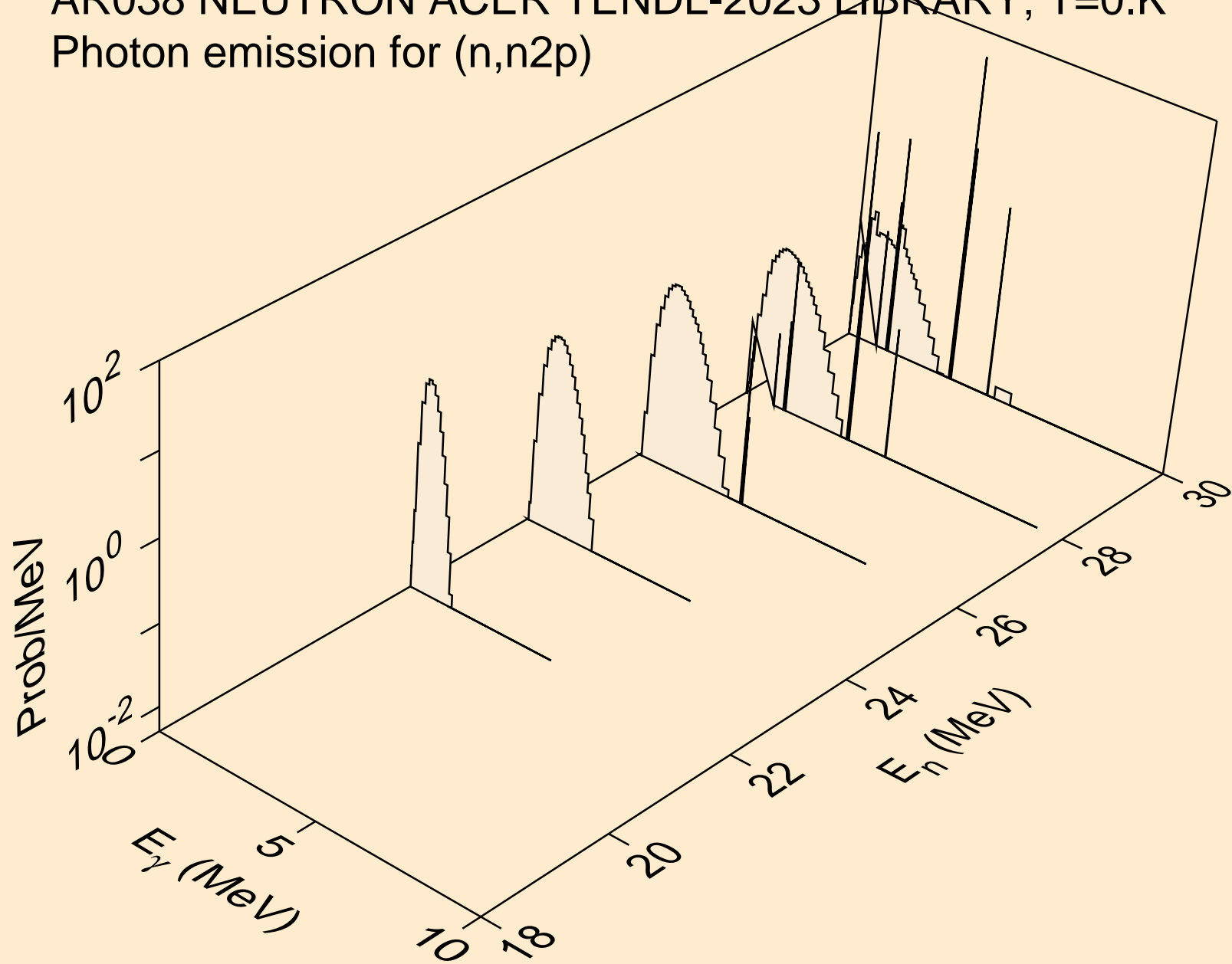
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

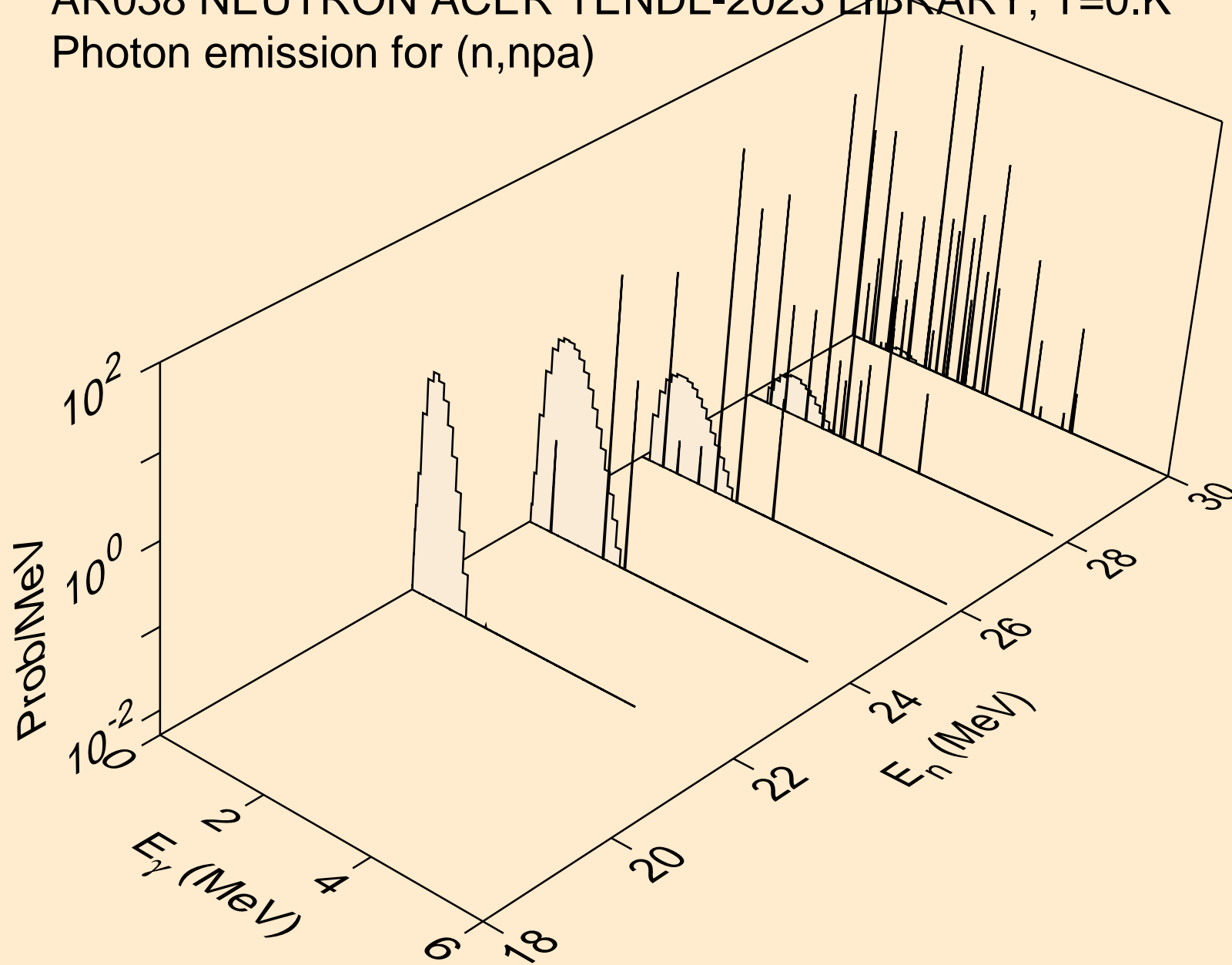


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)

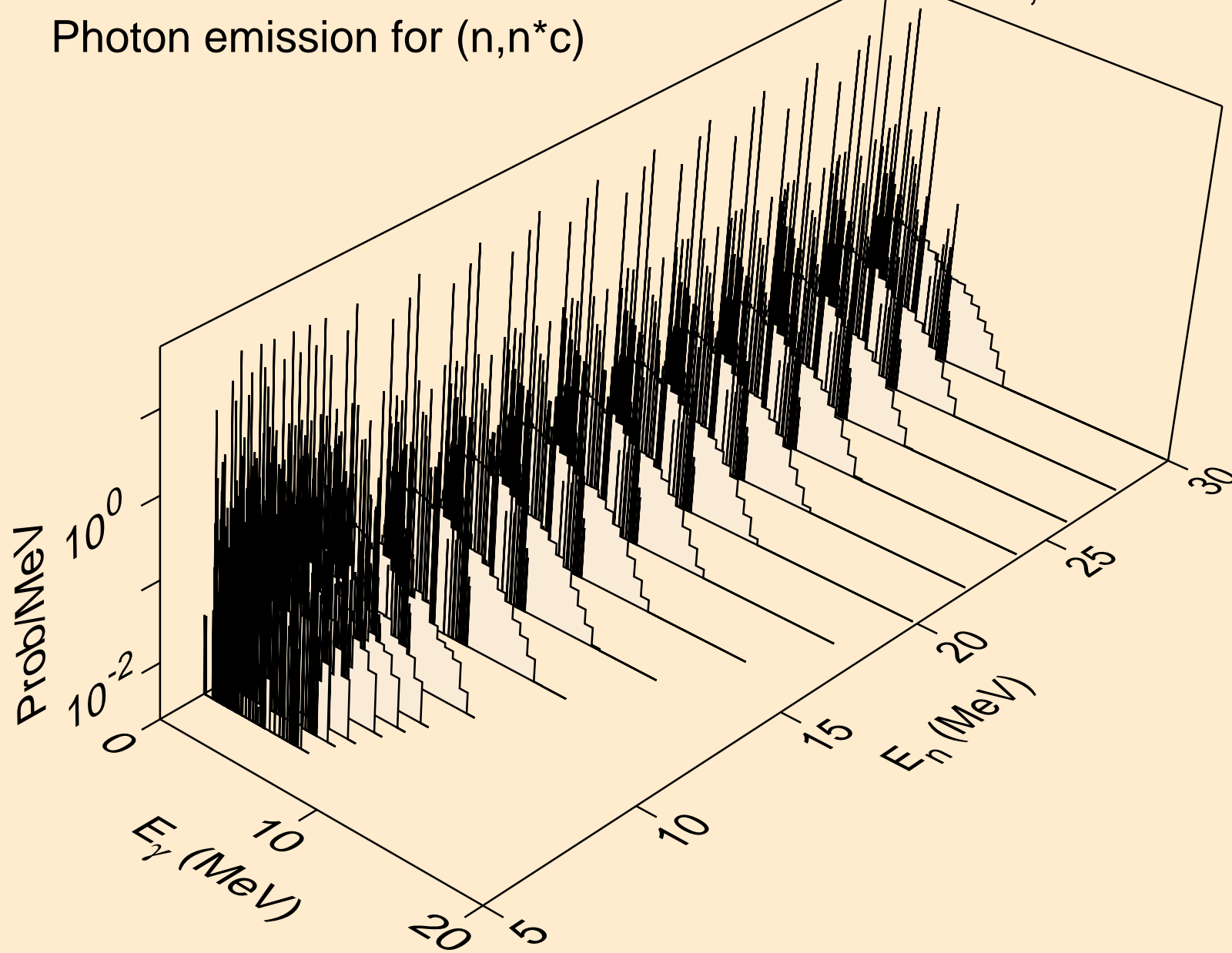




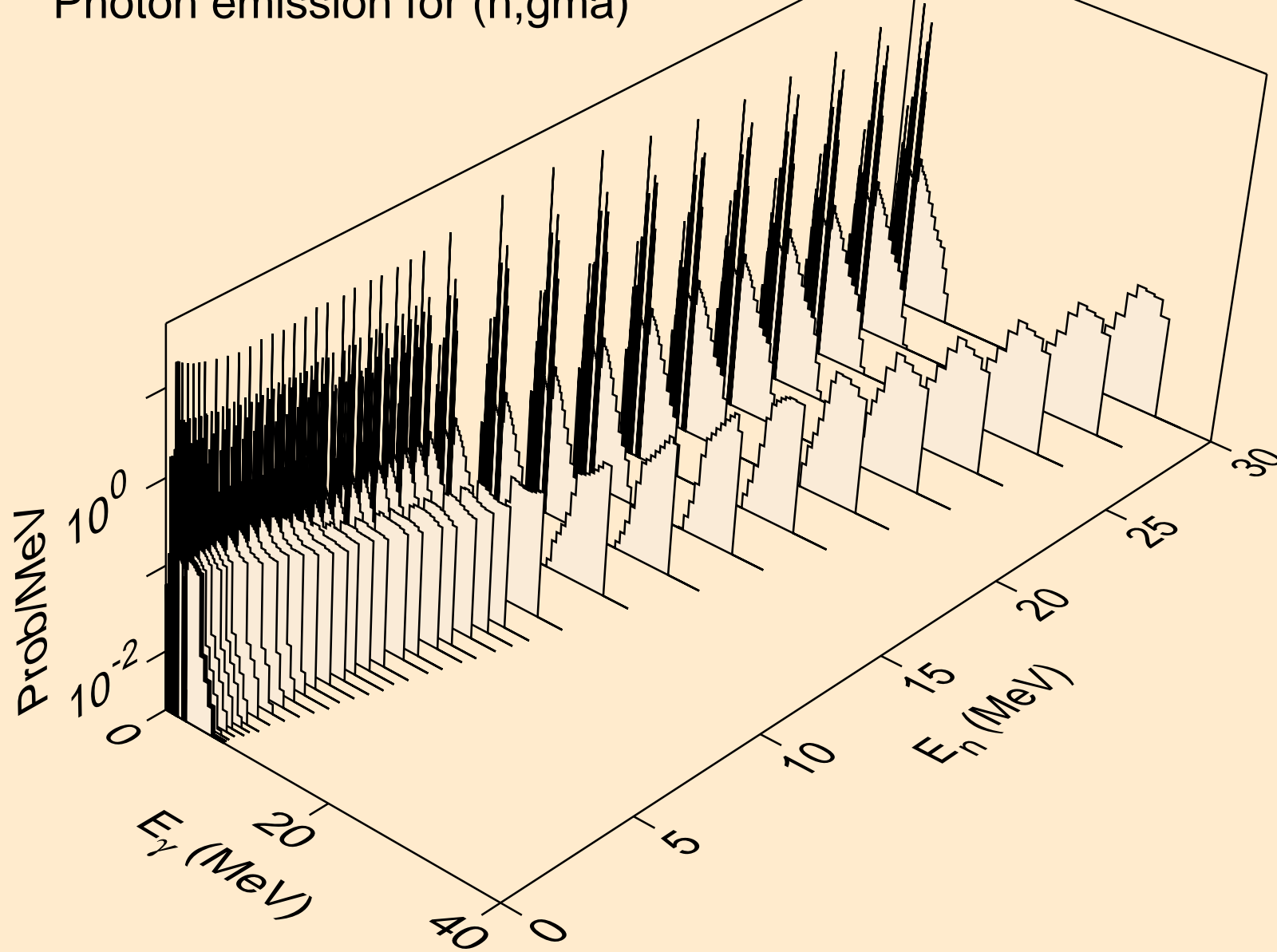
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Photon emission for (n,npa)



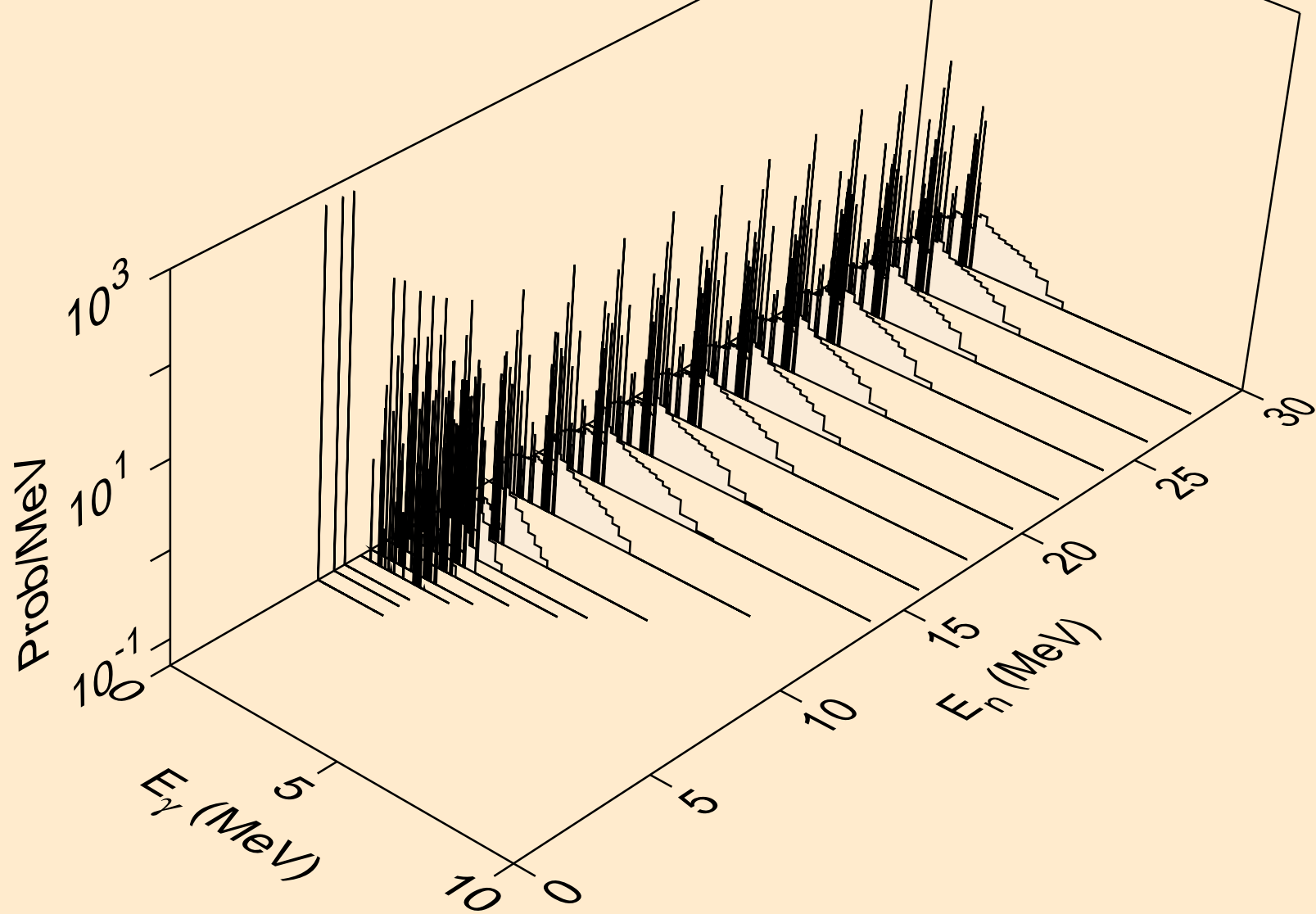
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



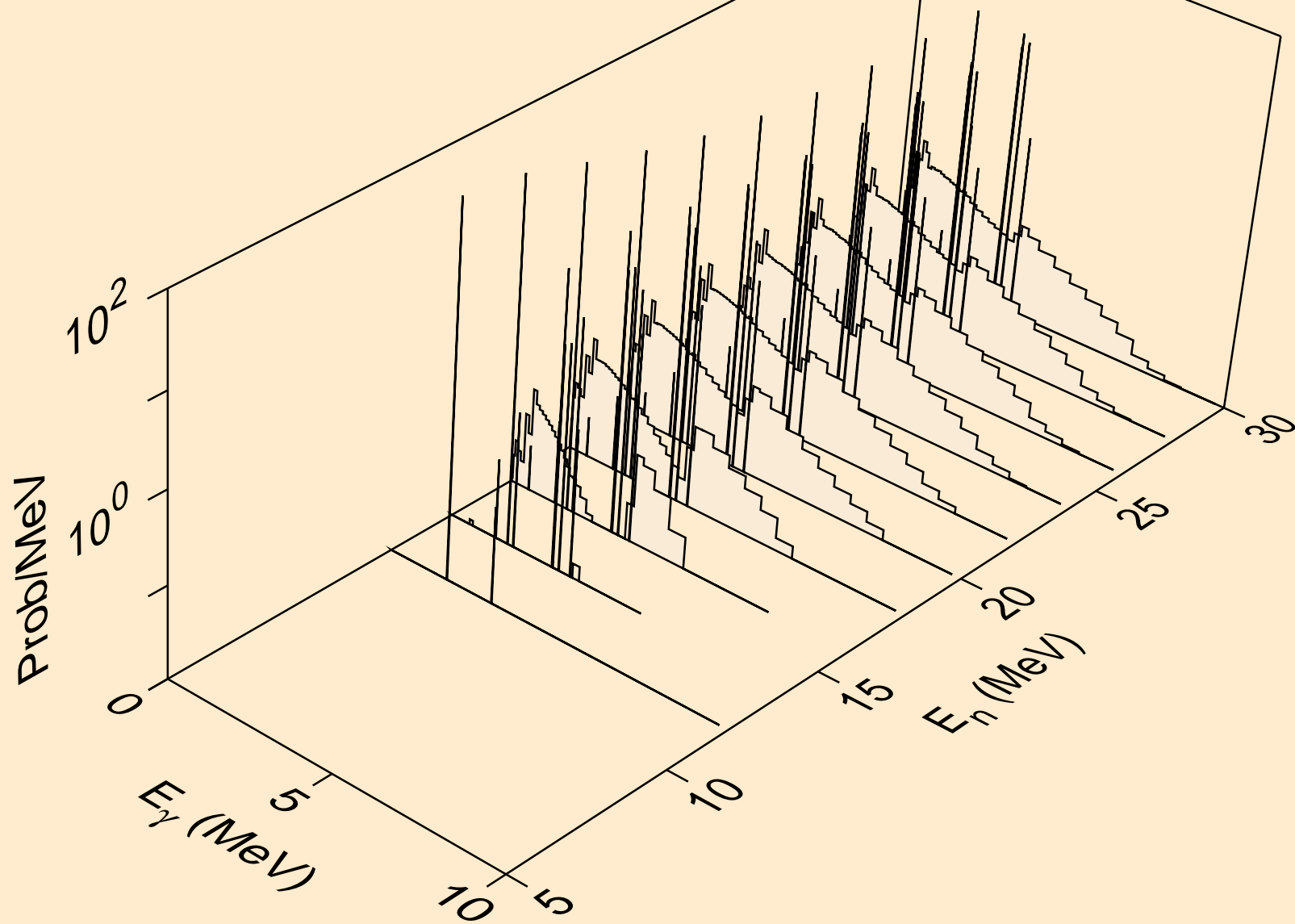
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Photon emission for (n,gma)



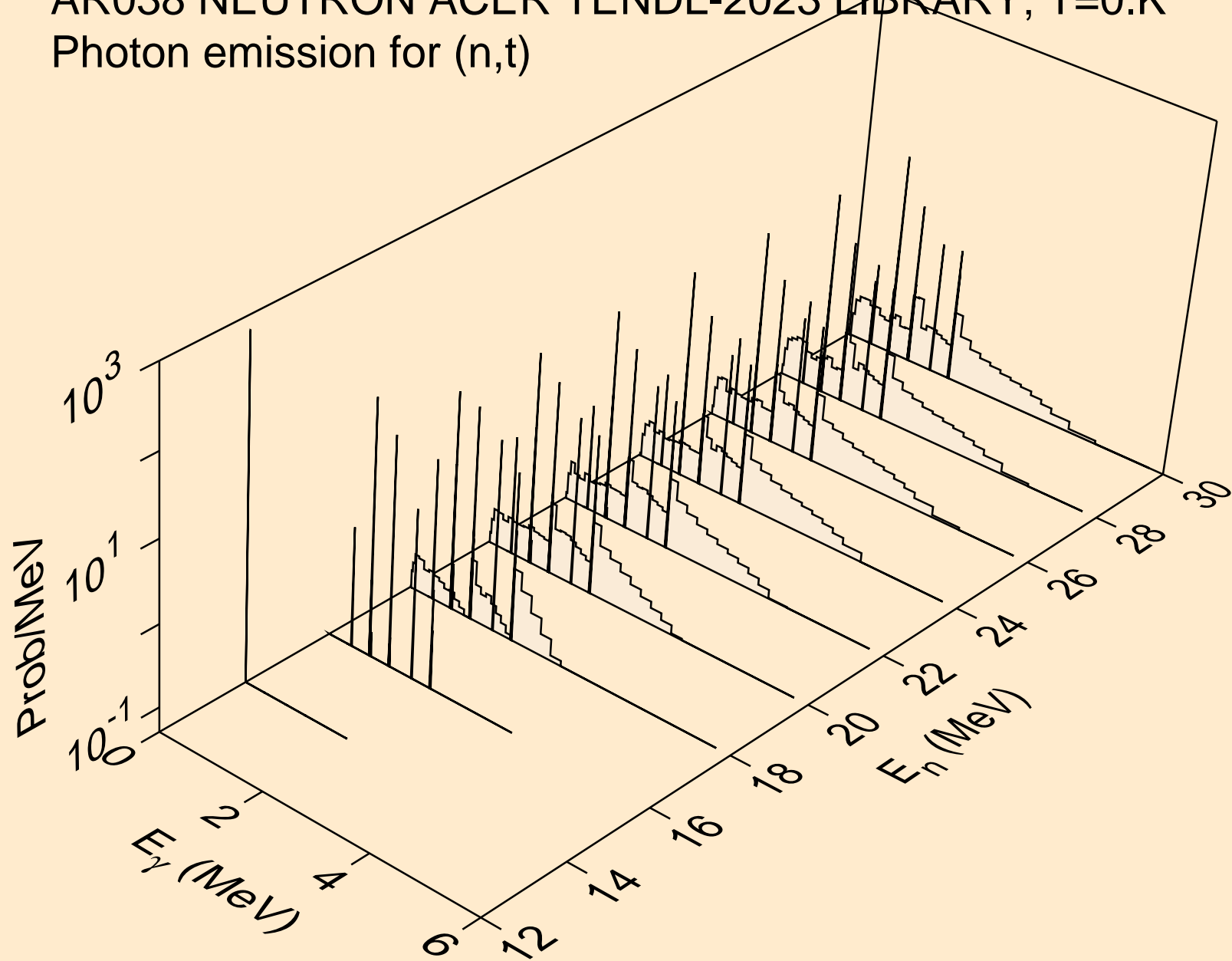
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Photon emission for (n,p)



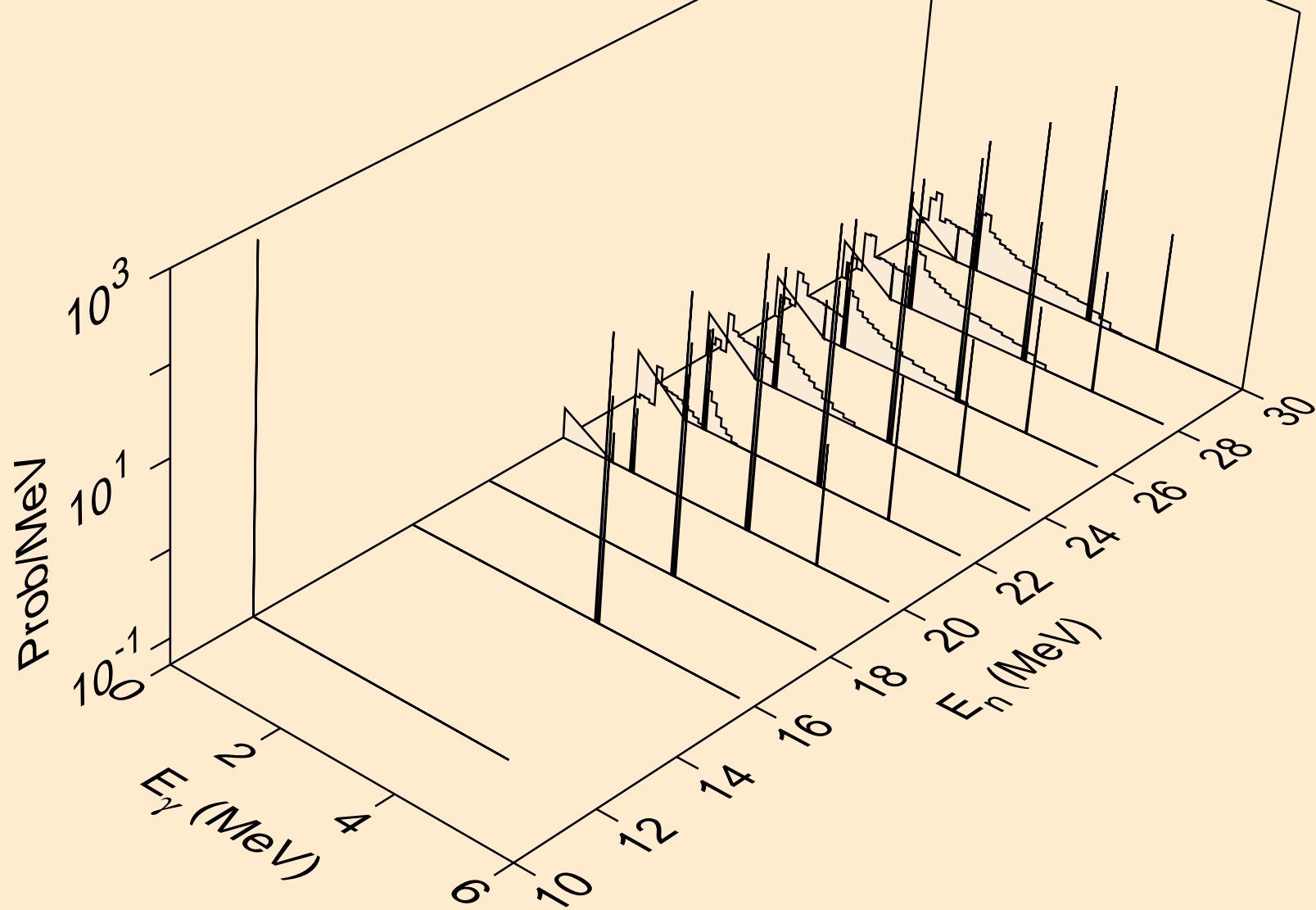
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Photon emission for (n,d)



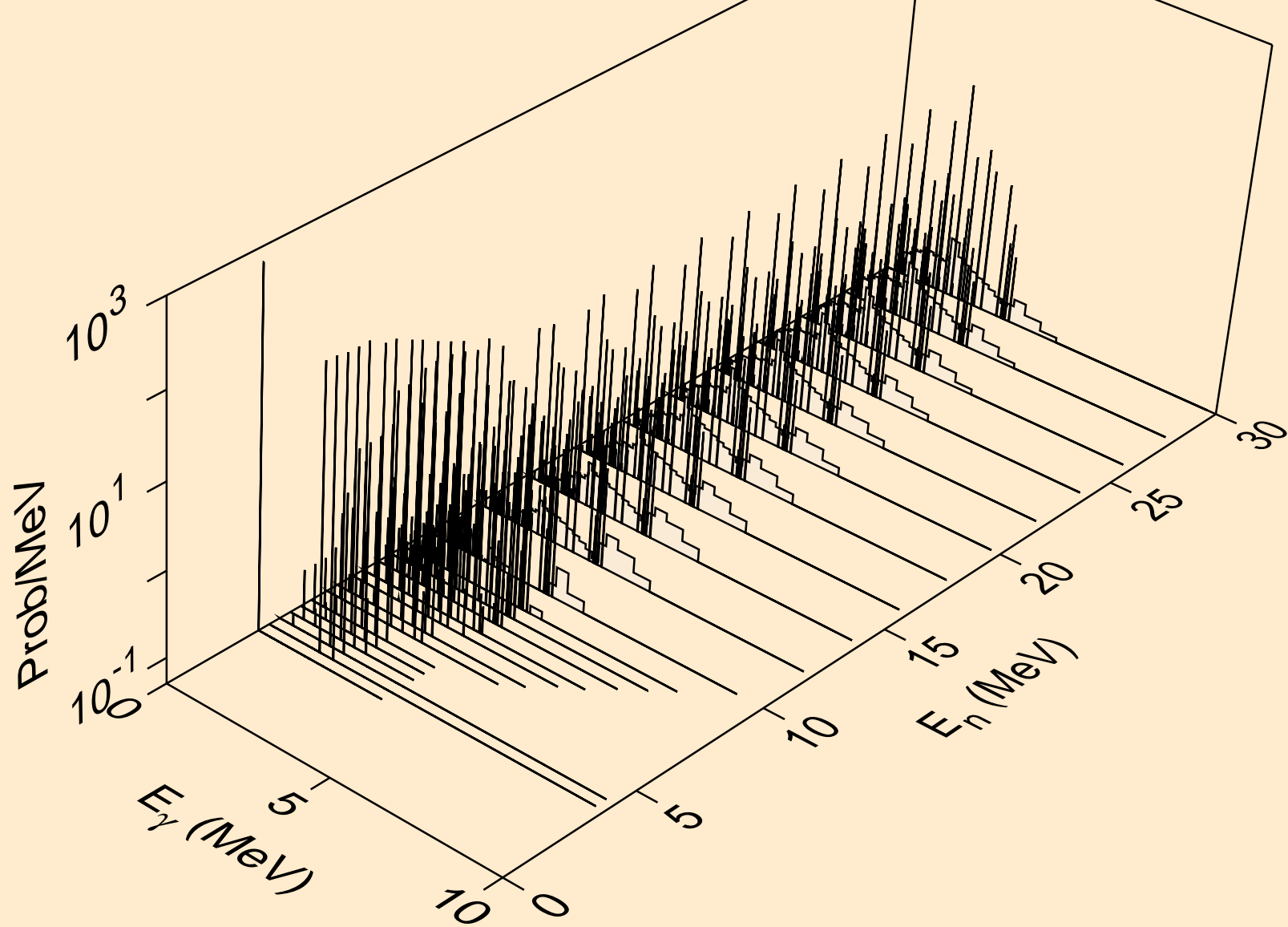
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

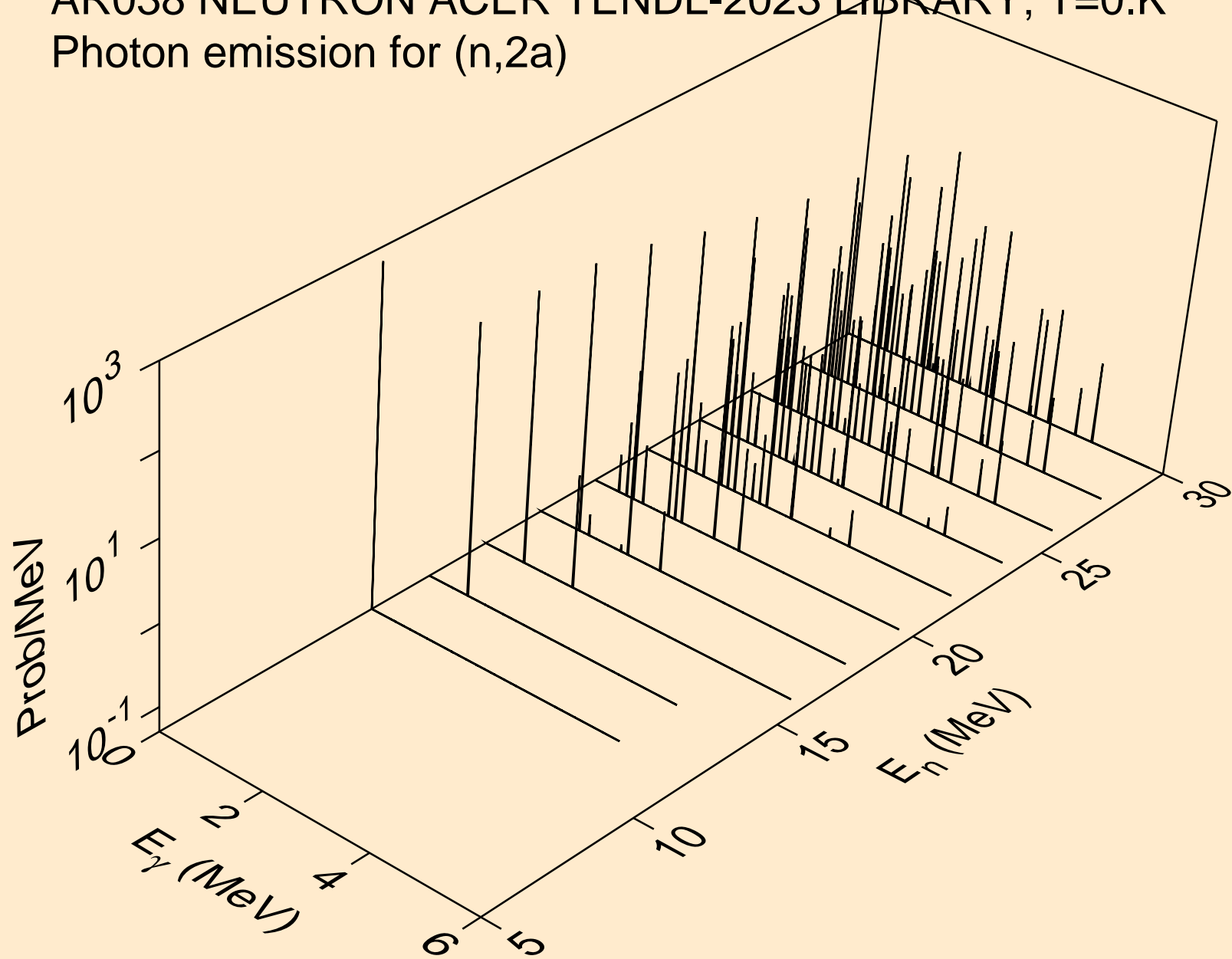


AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

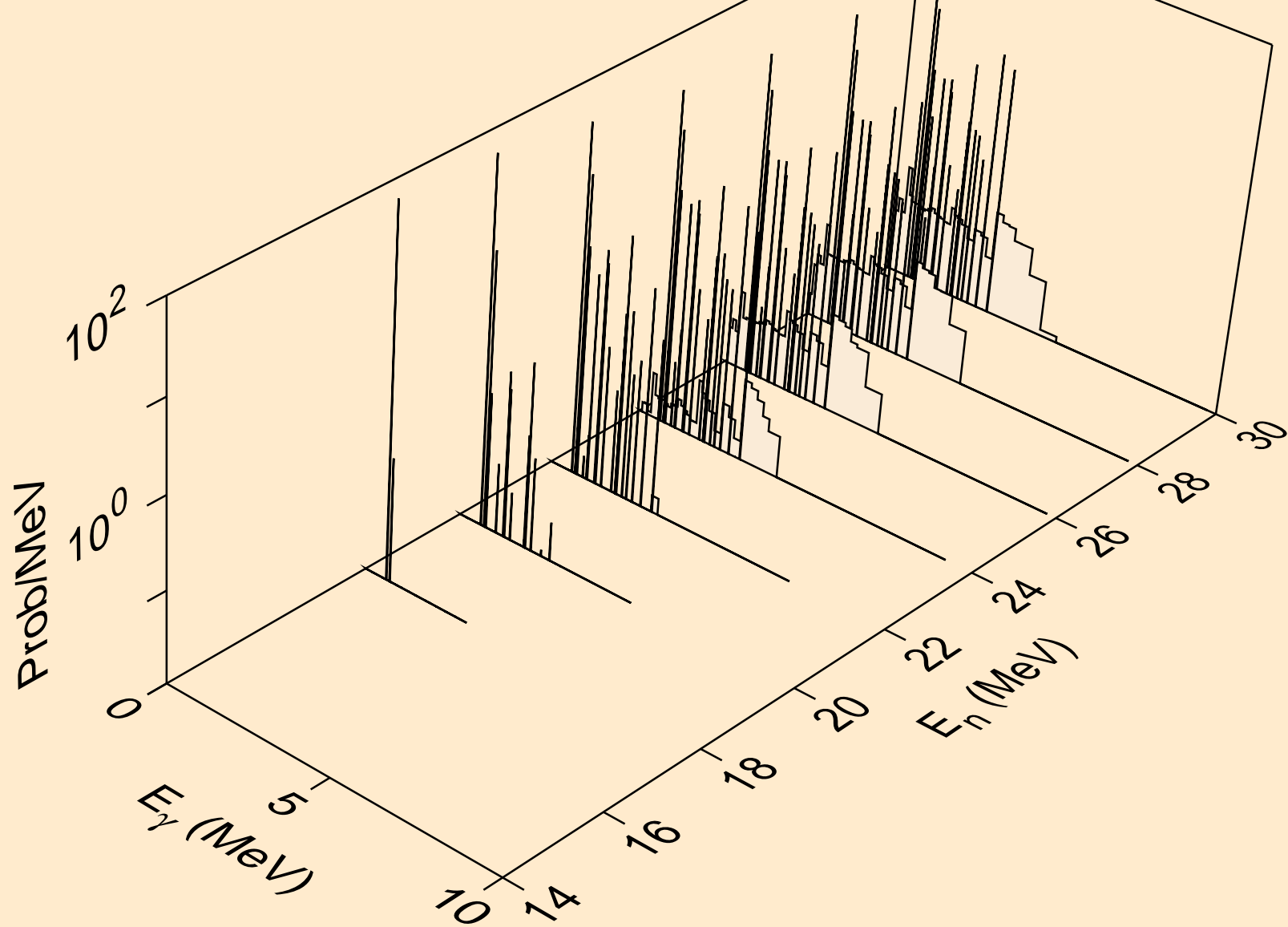




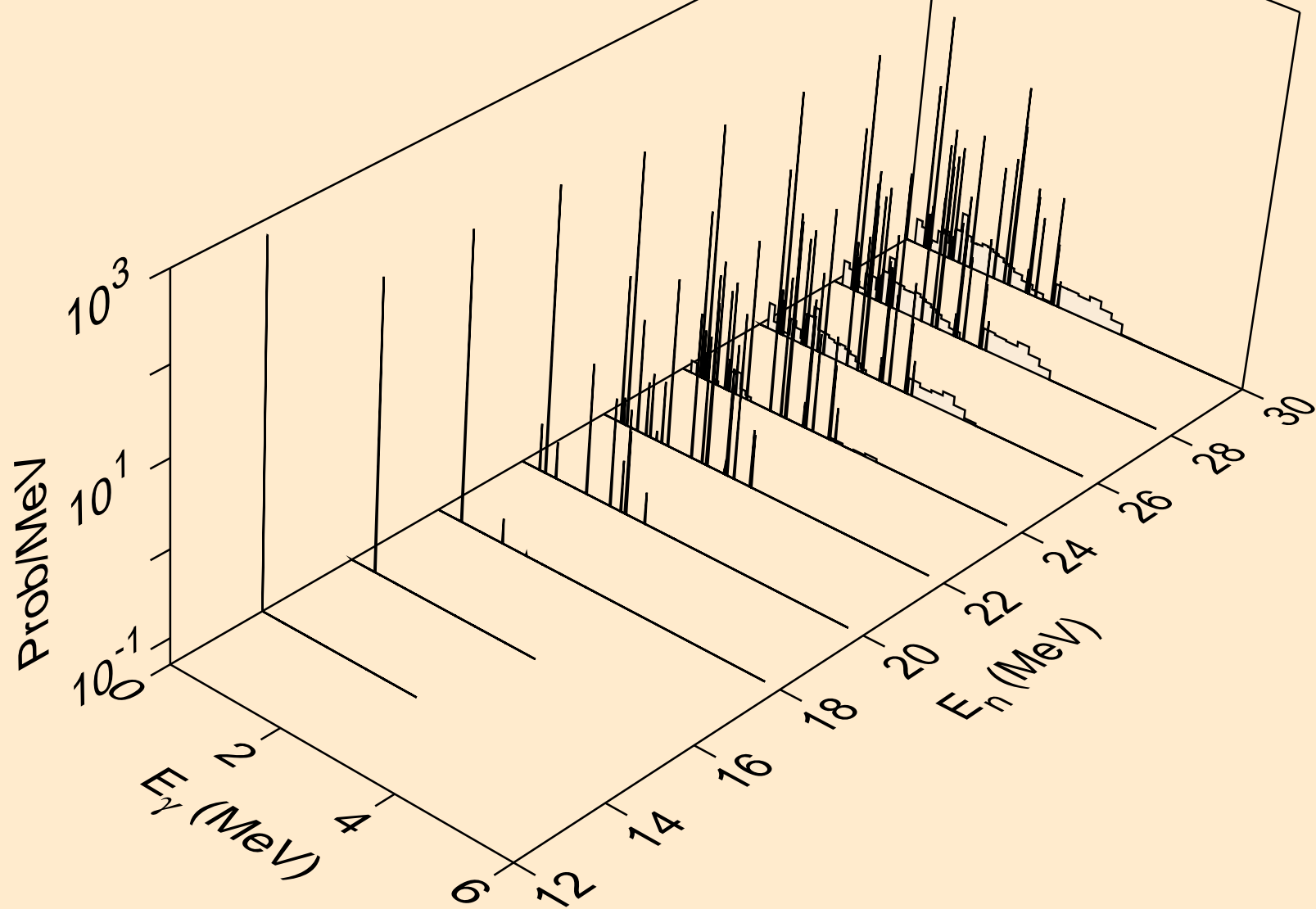
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Photon emission for (n,2a)



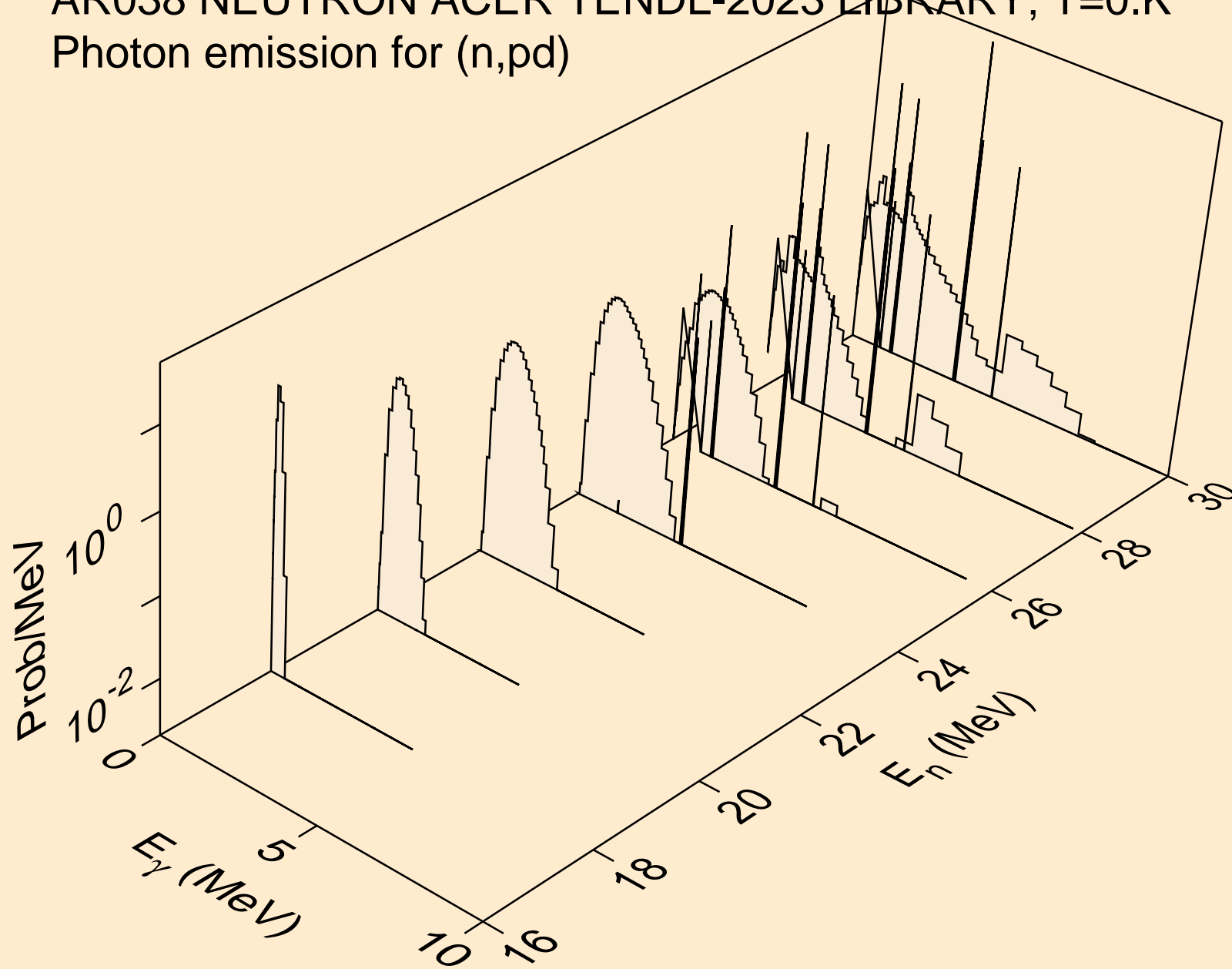
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Photon emission for (n,2p)



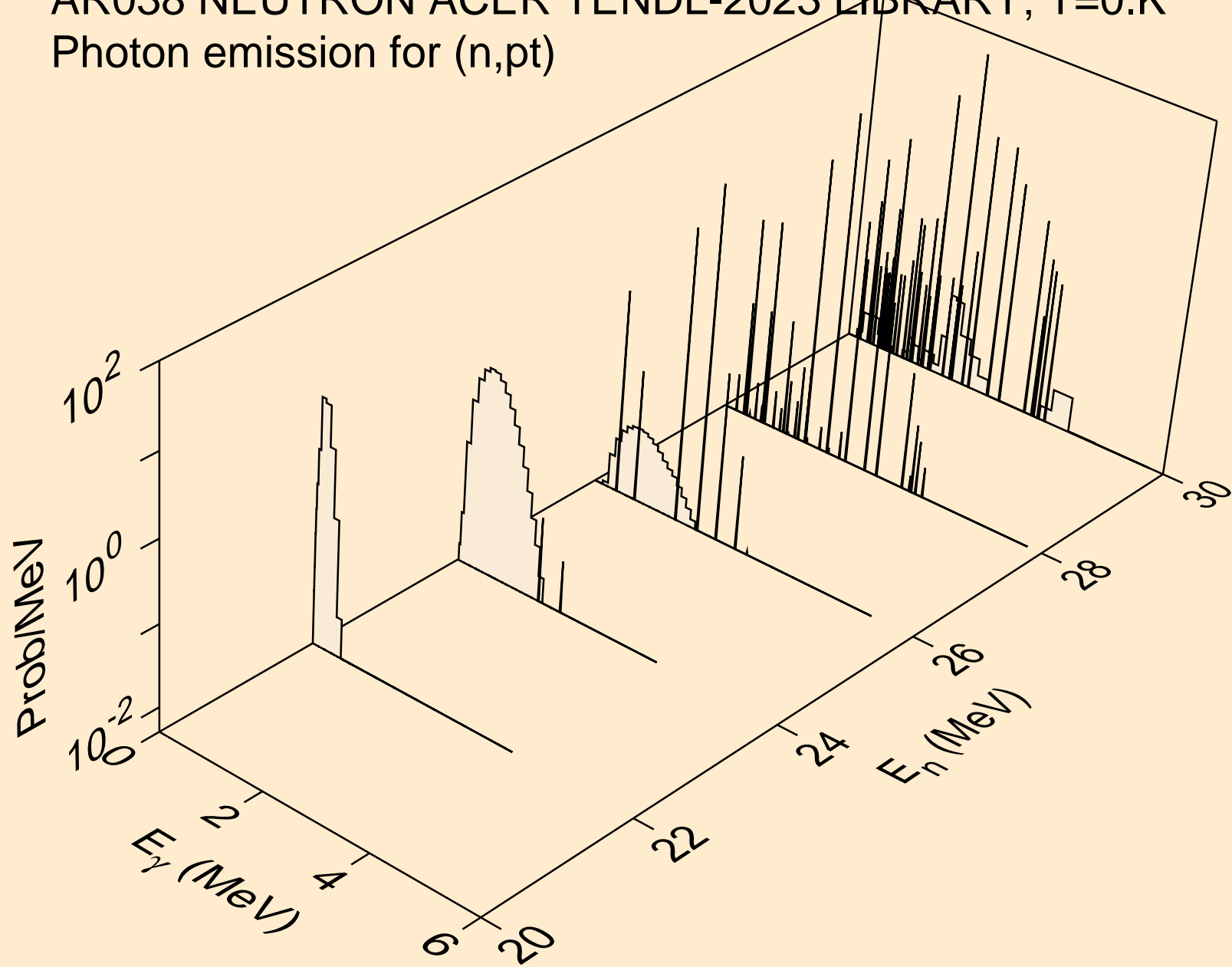
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Photon emission for (n,p)



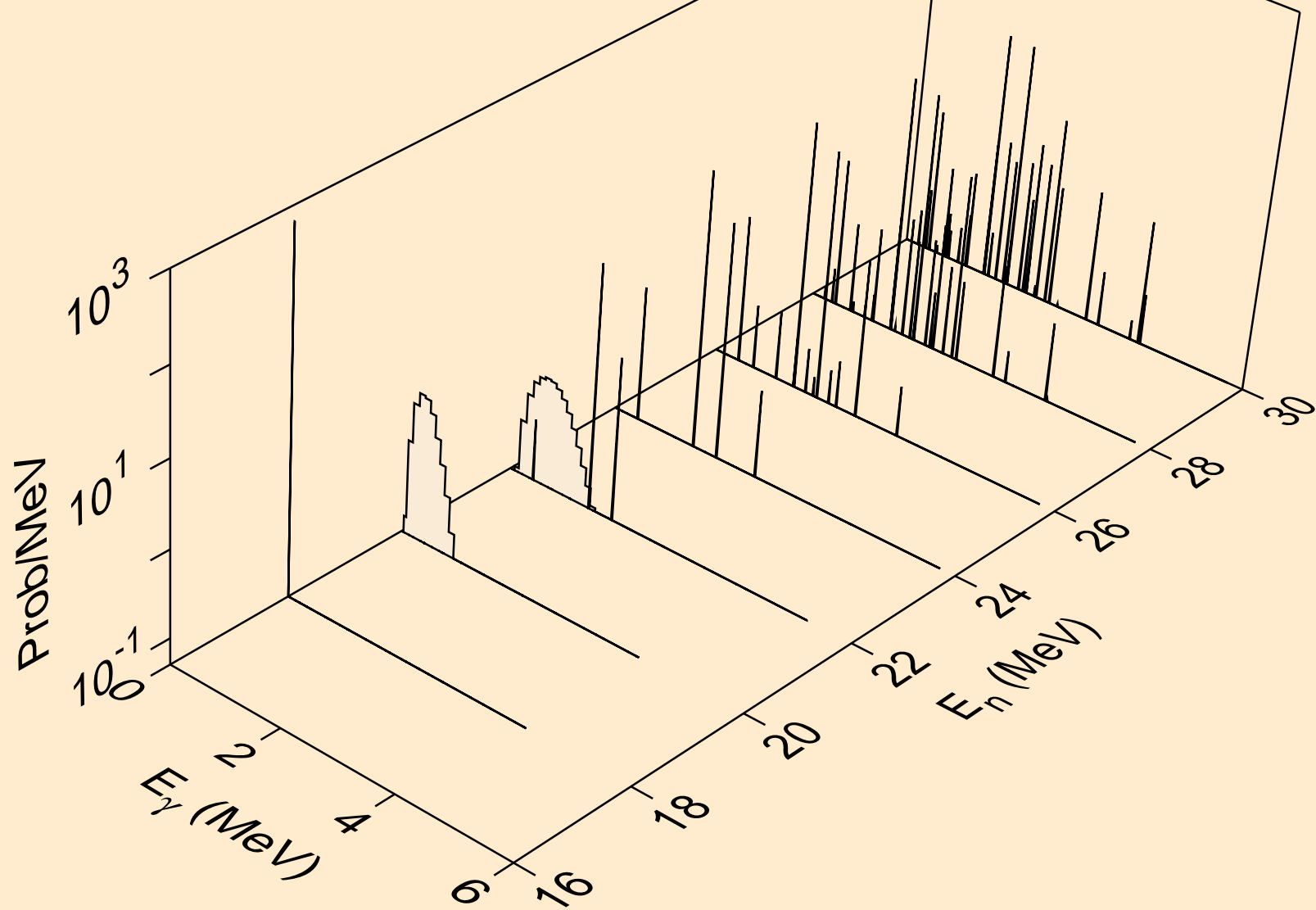
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Photon emission for (n,pd)



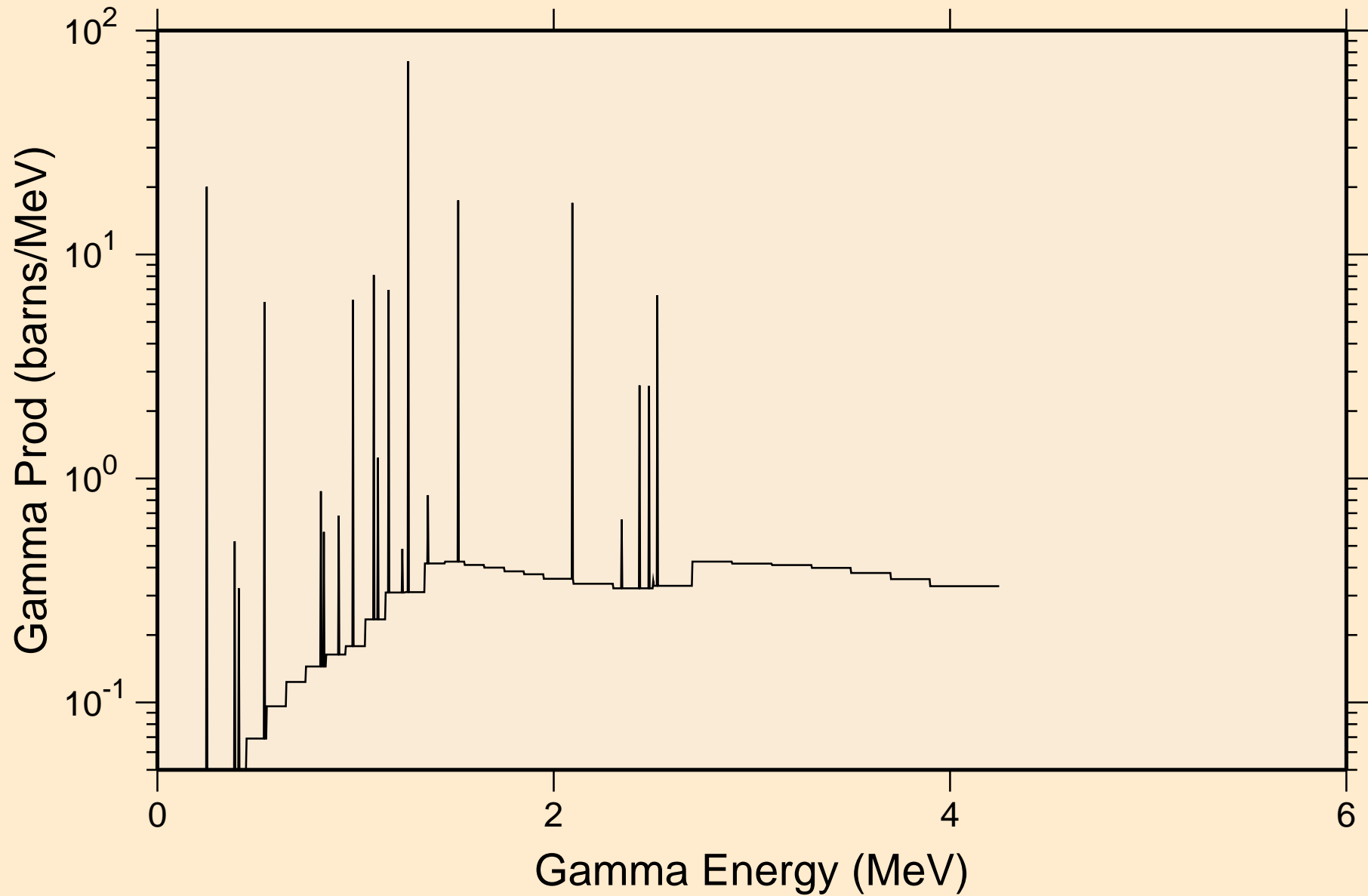
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Photon emission for (n,pt)



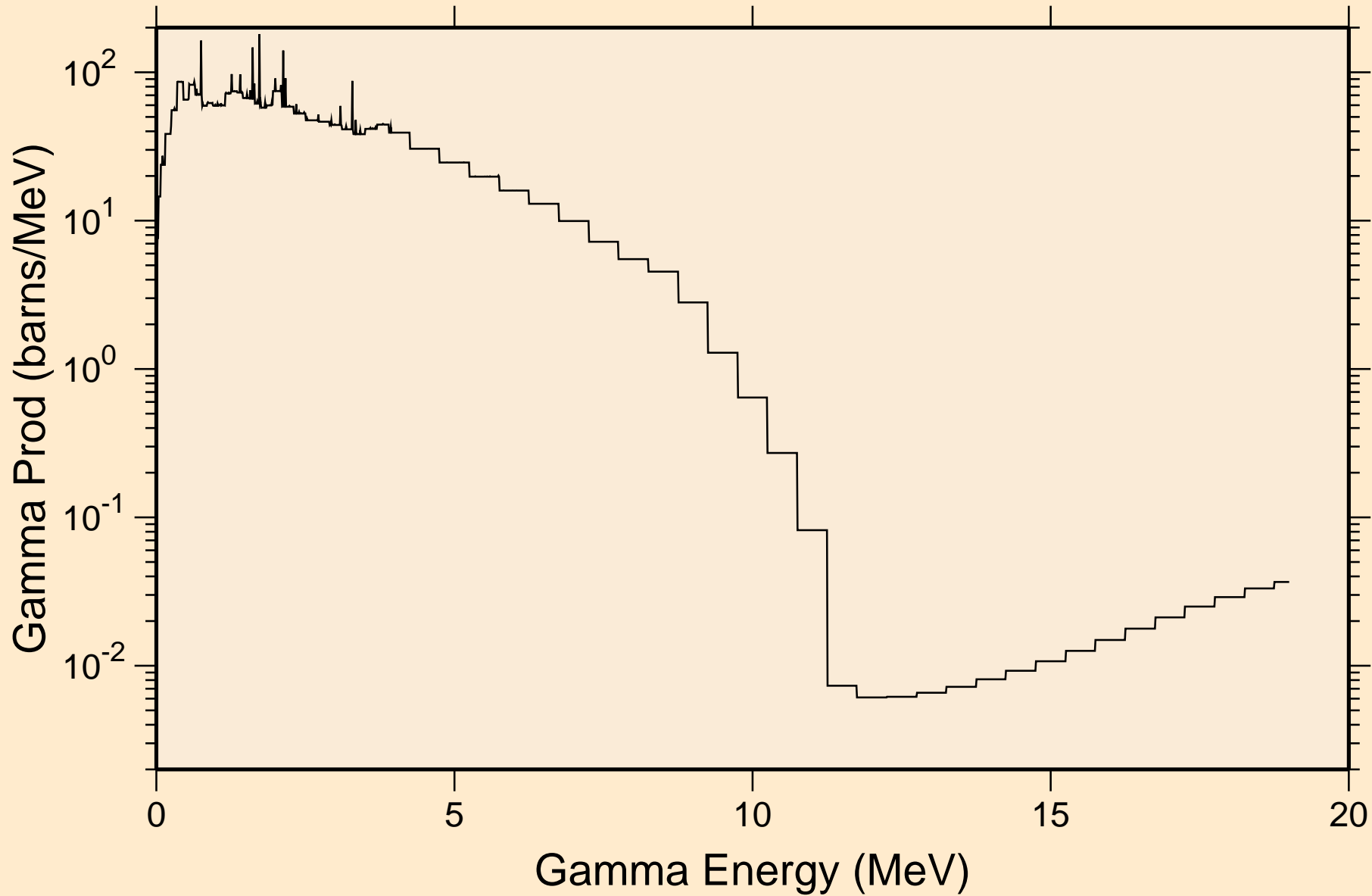
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



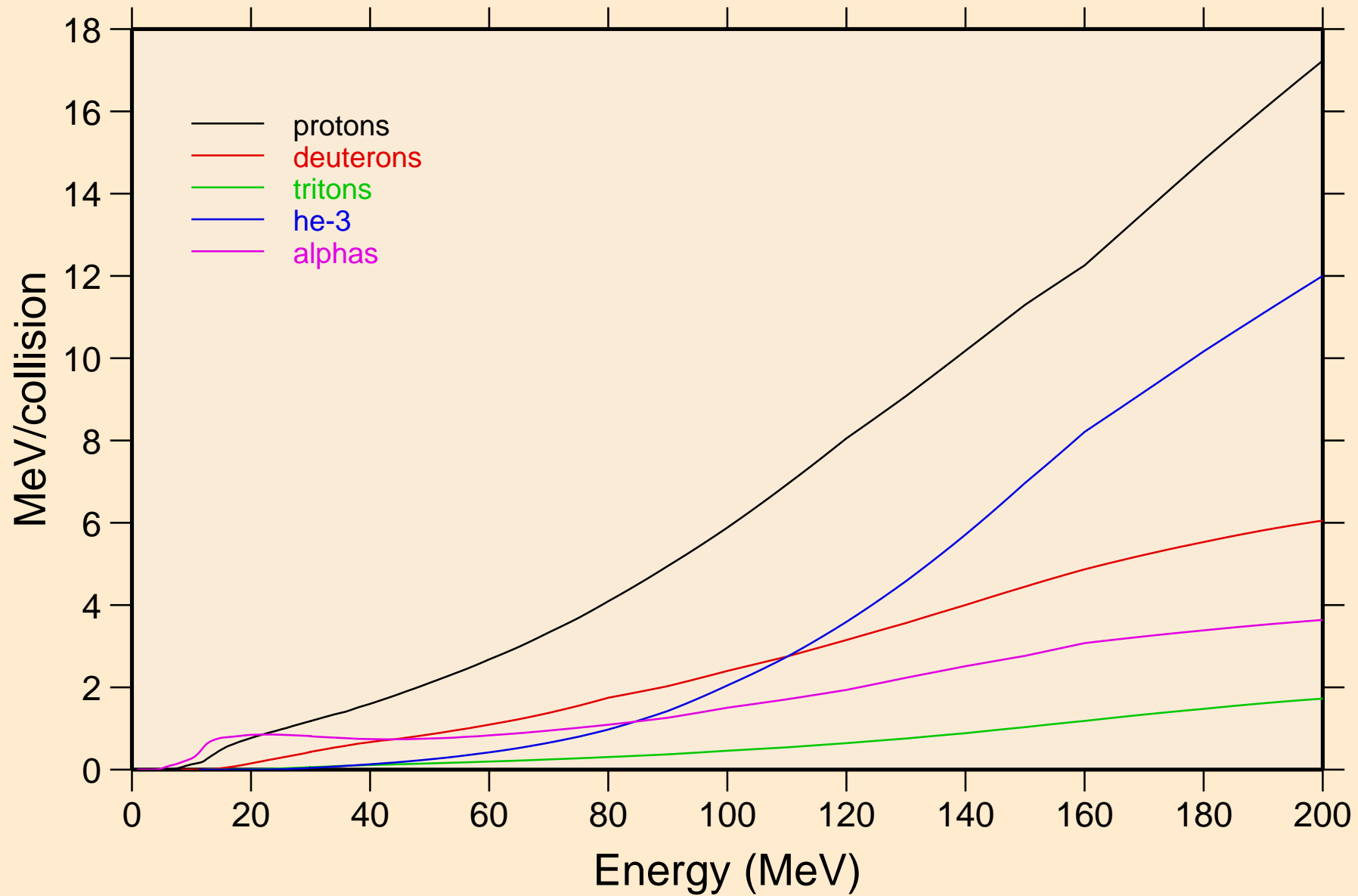
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14 MeV photon spectrum





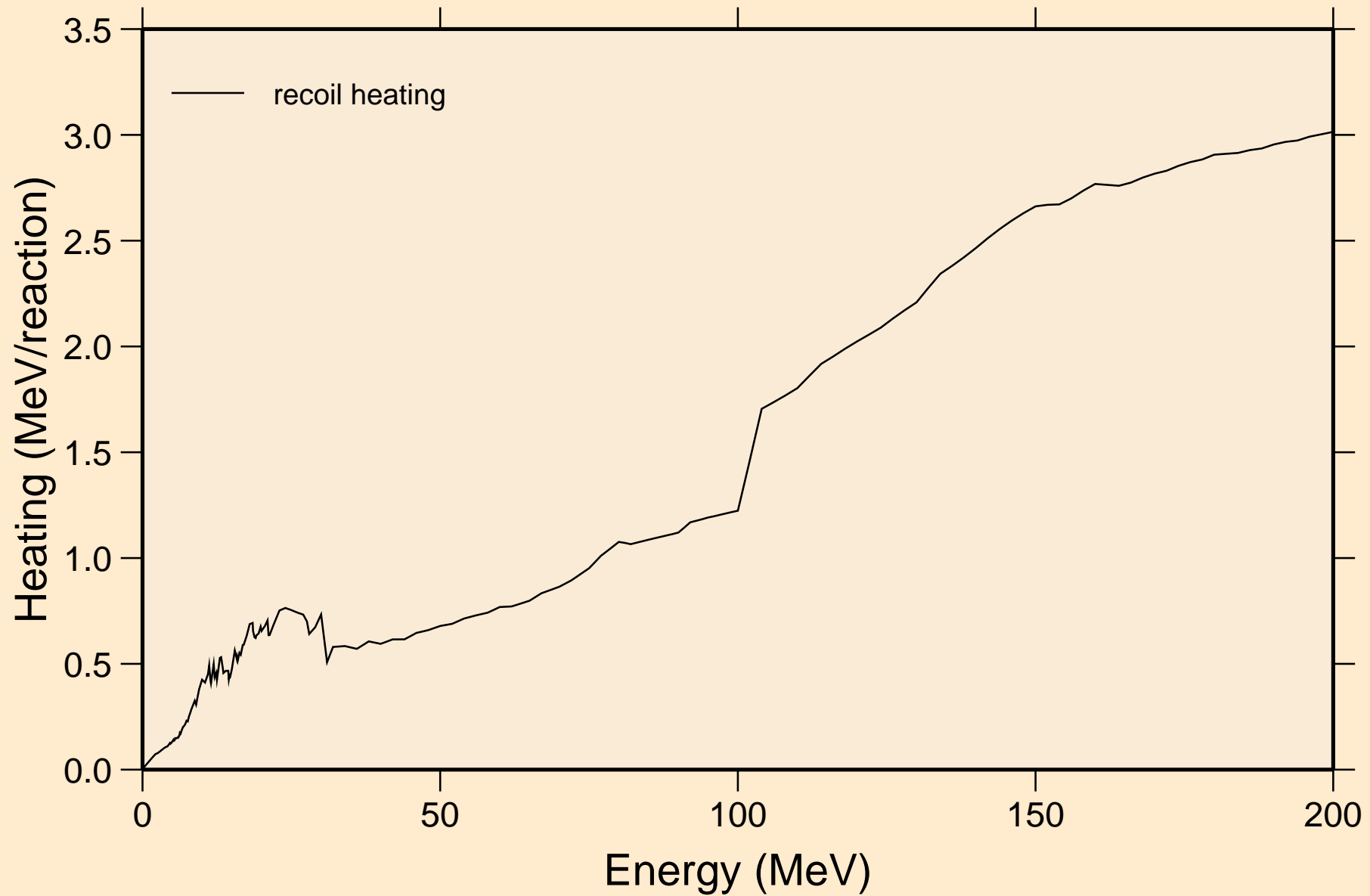
# AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

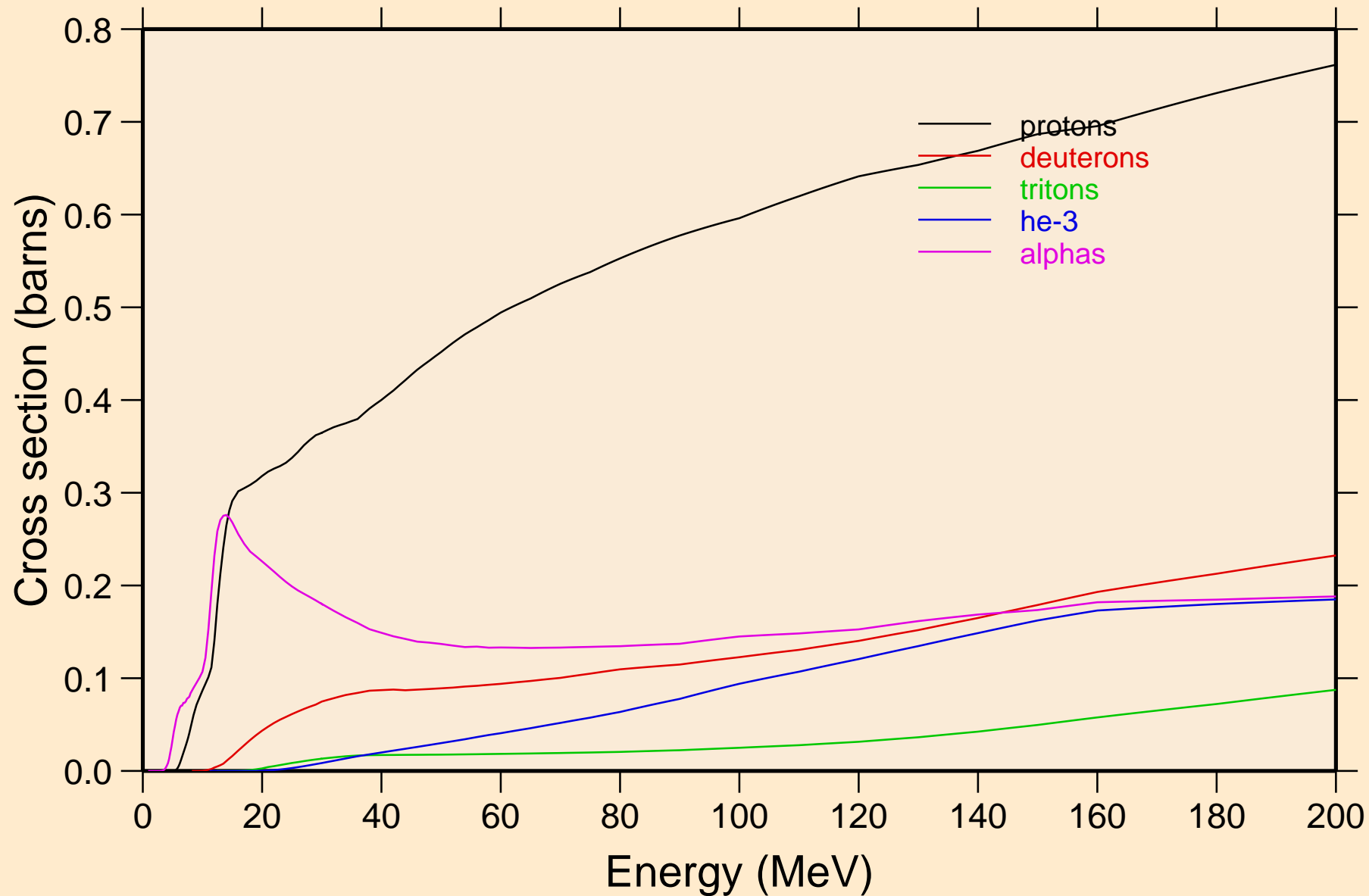


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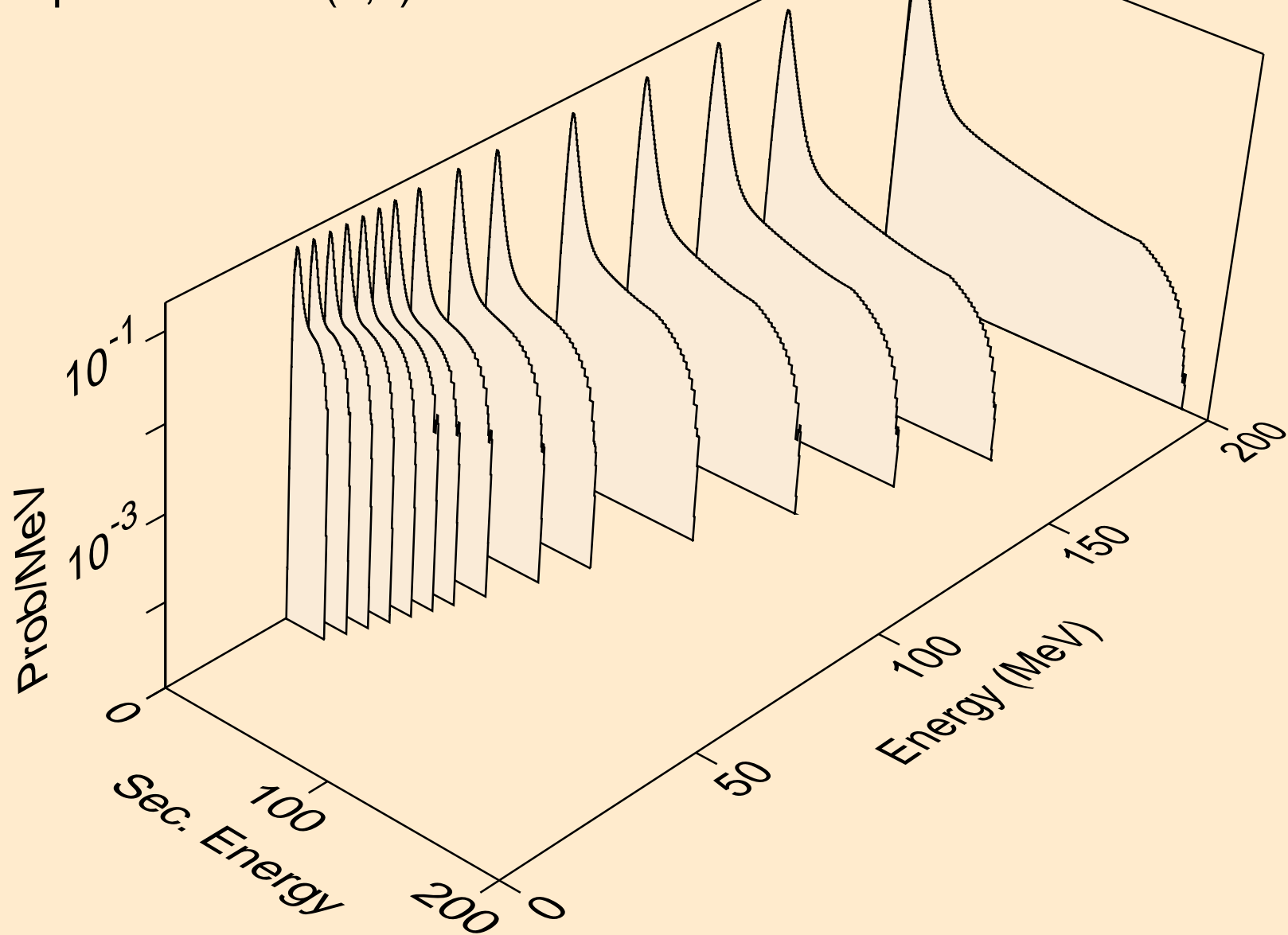
## Recoil Heating



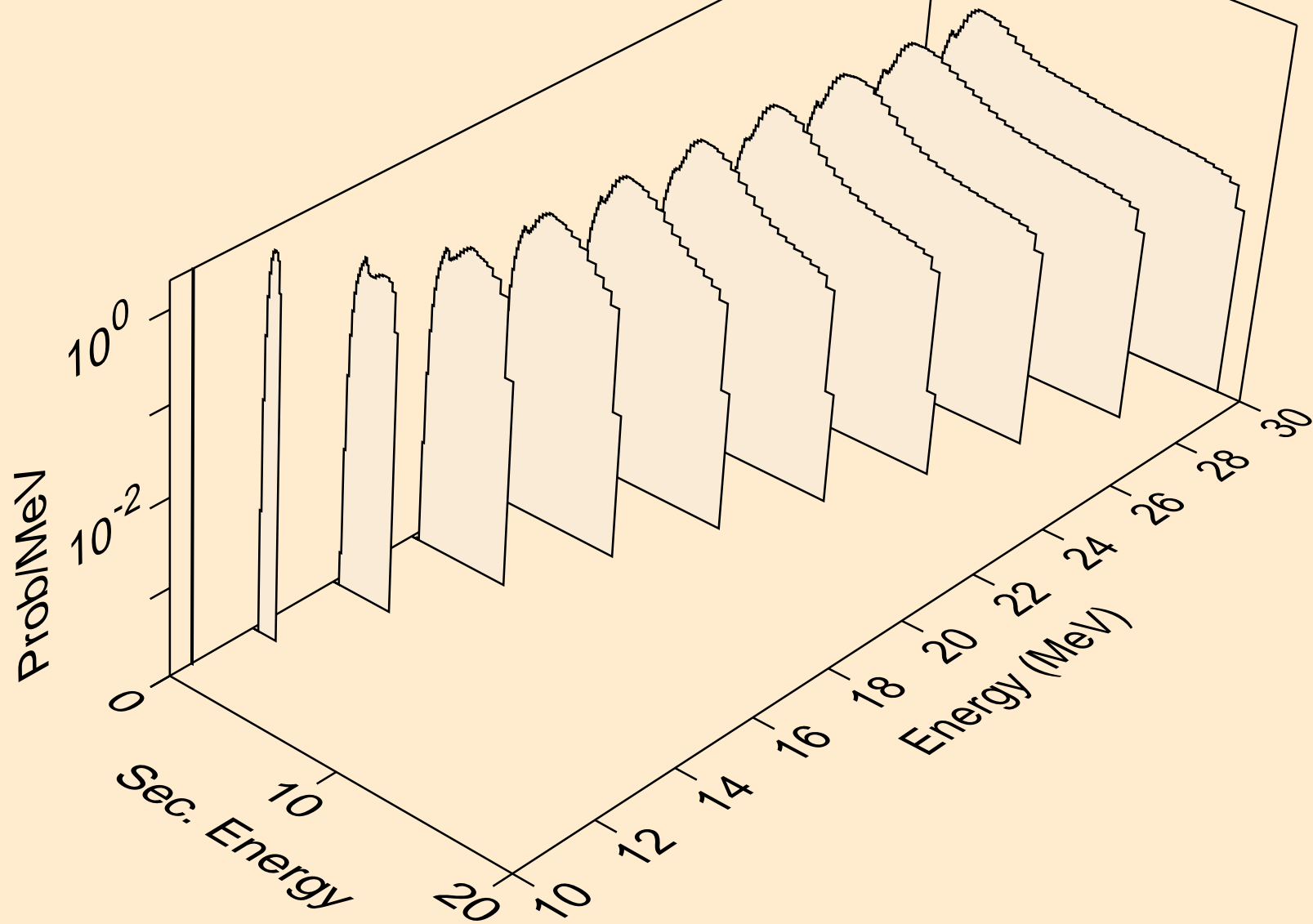
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Particle production cross sections



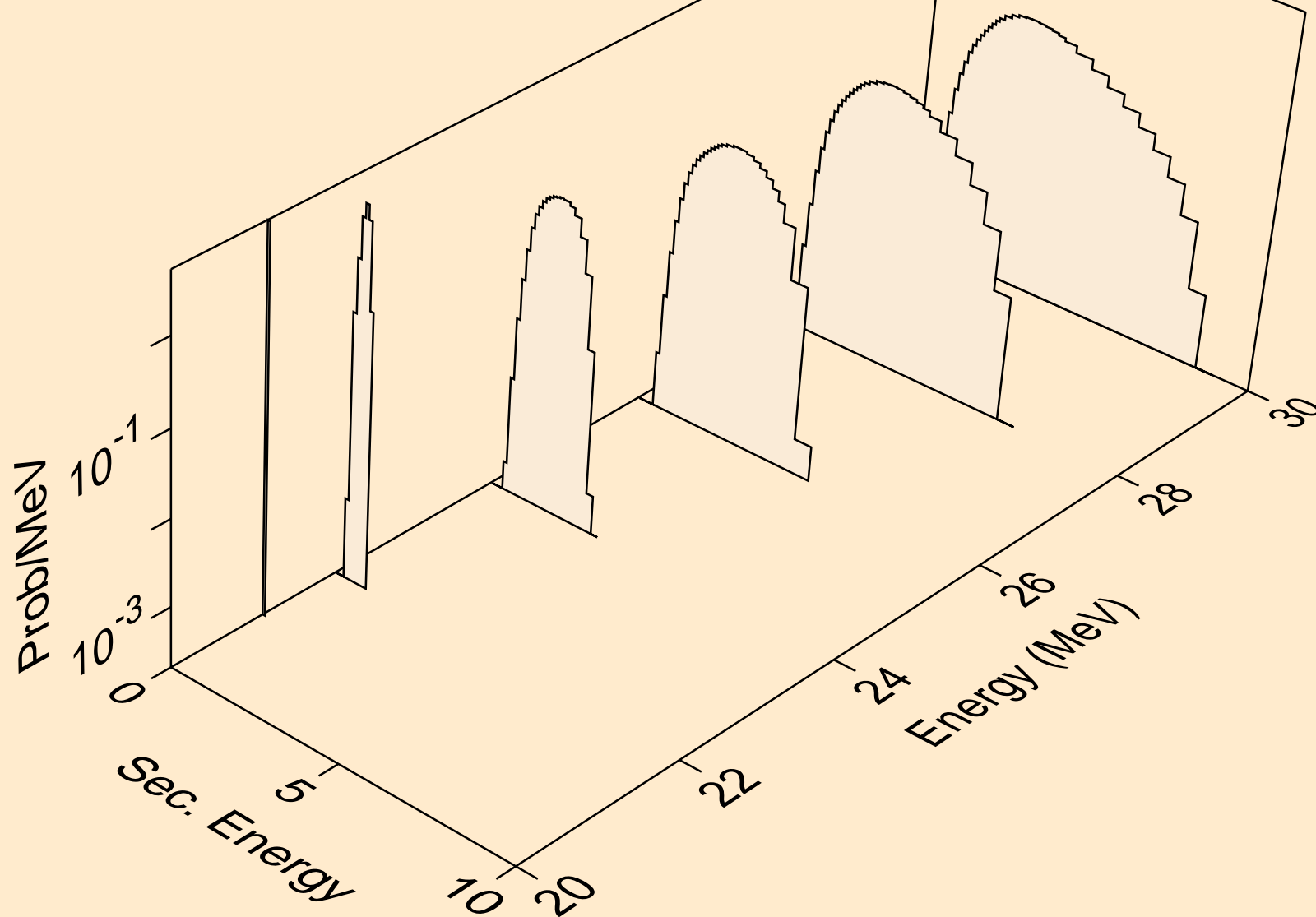
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protons from (n,x)



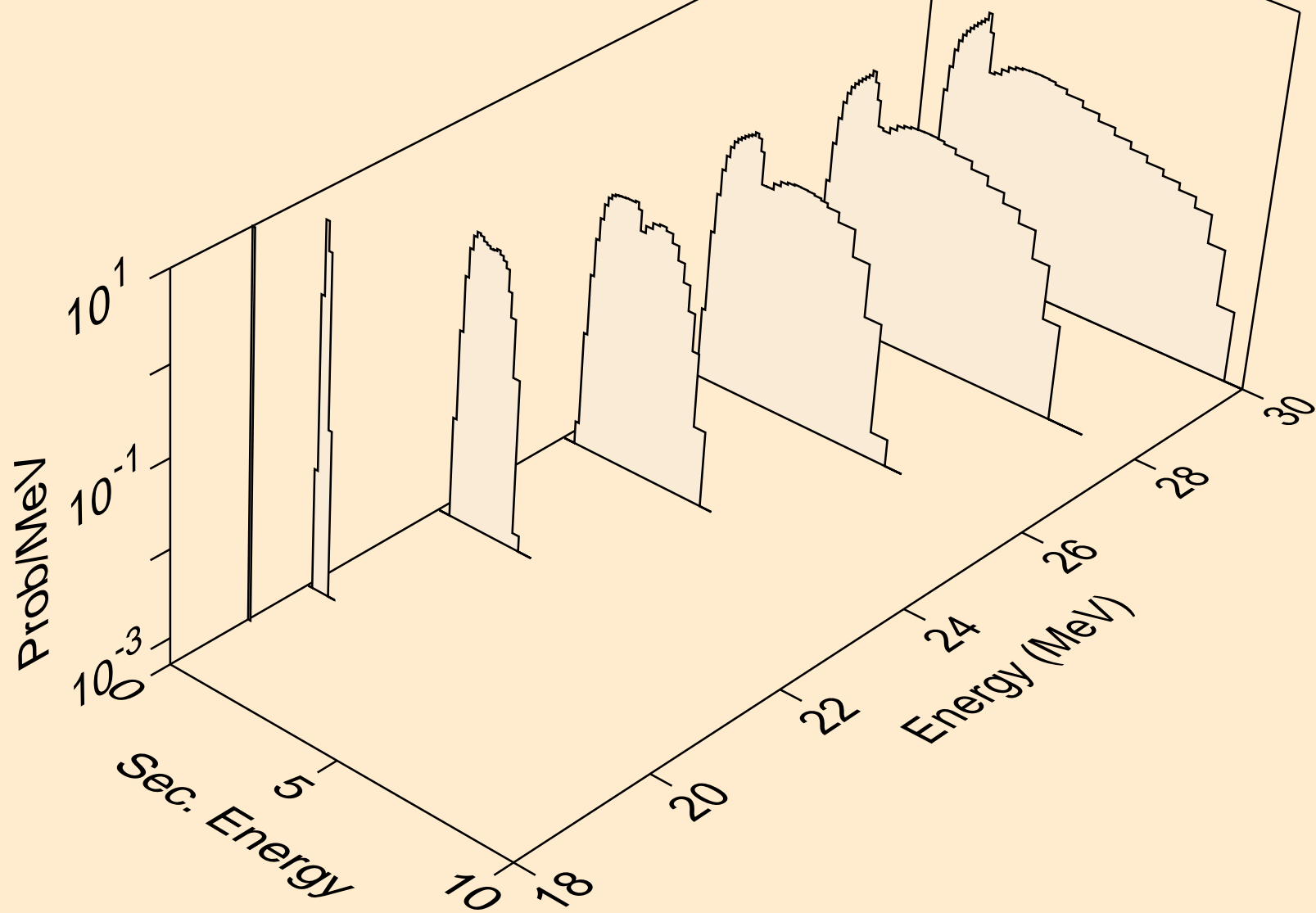
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protons from (n,n\*)p



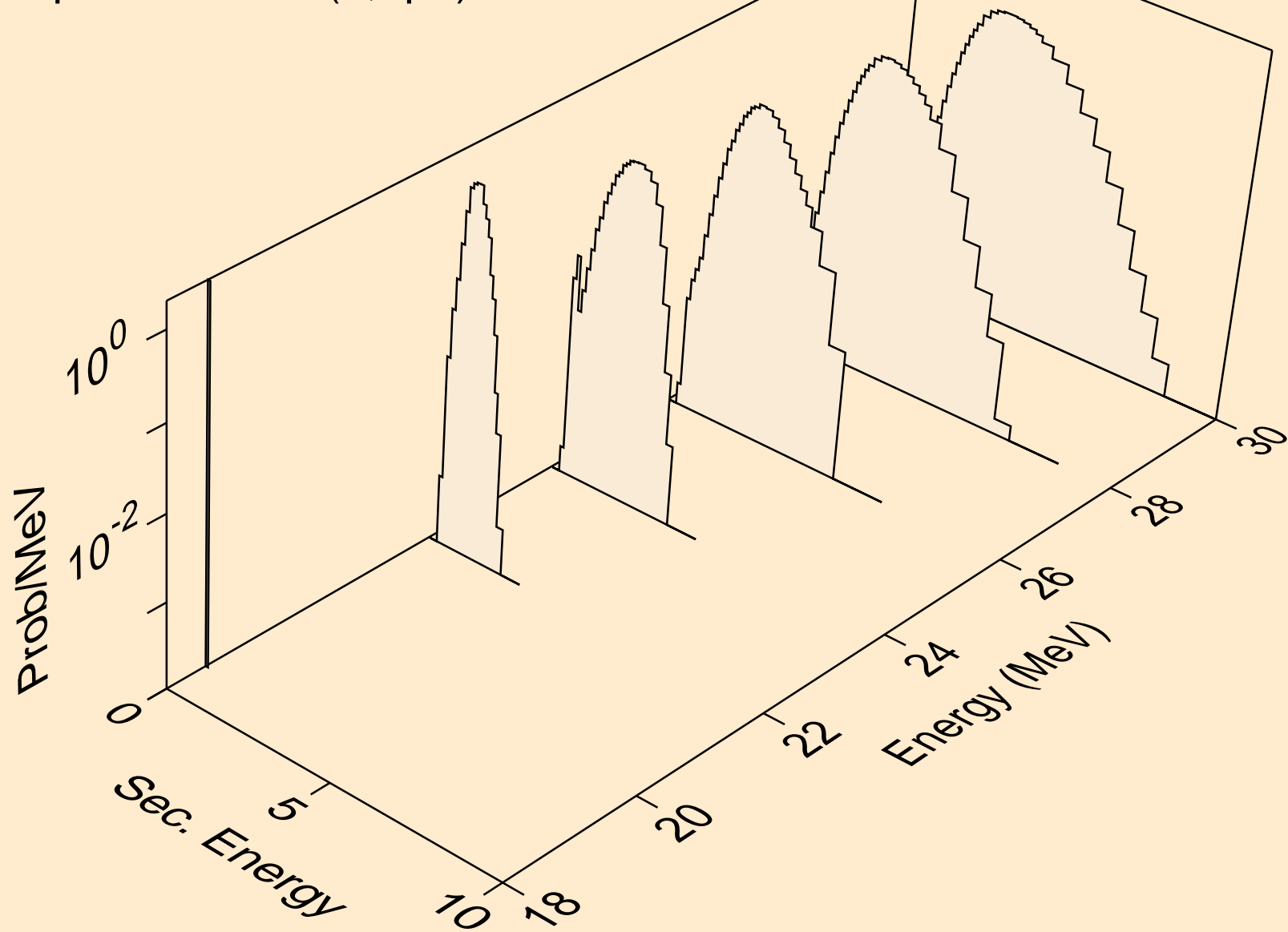
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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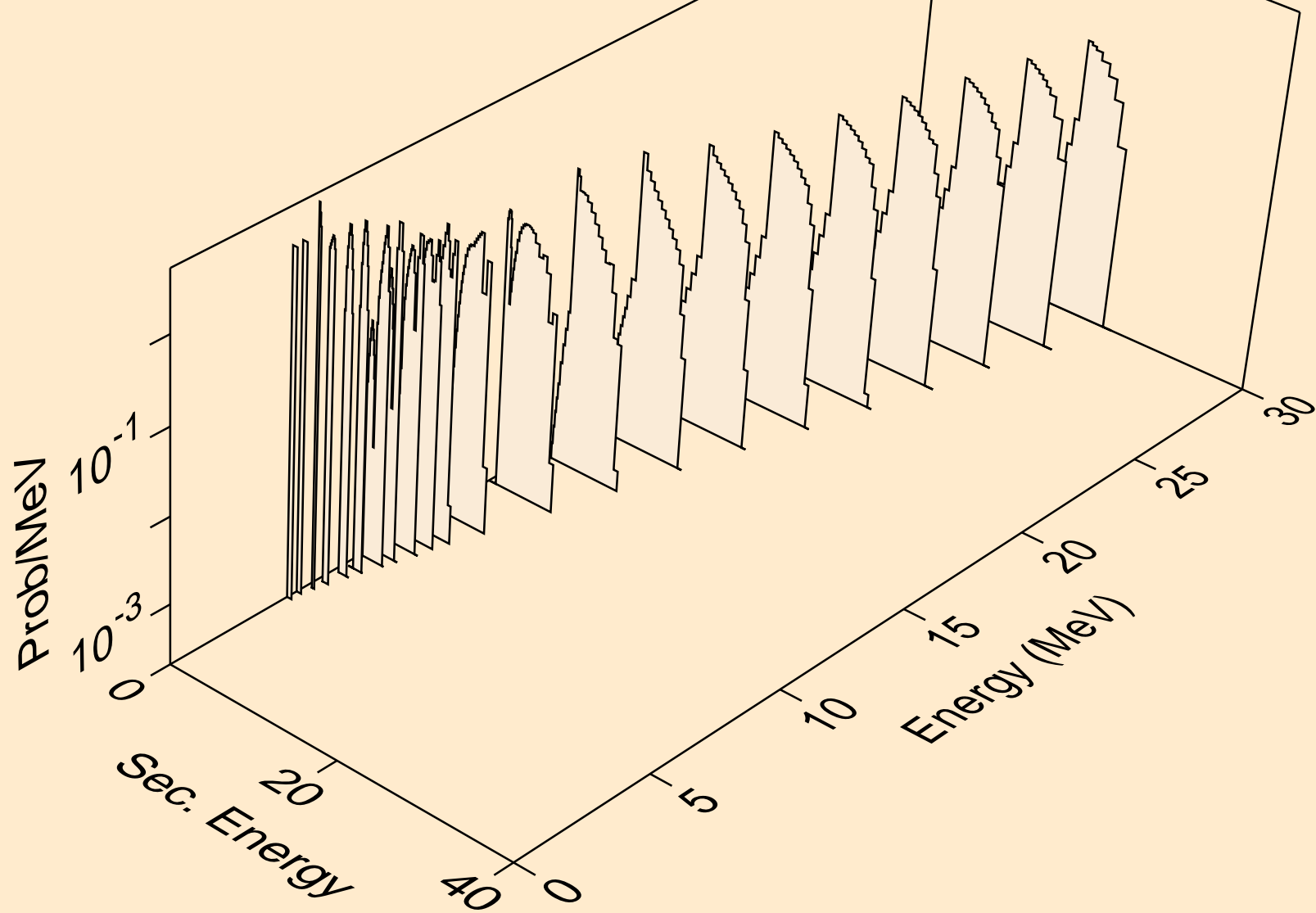


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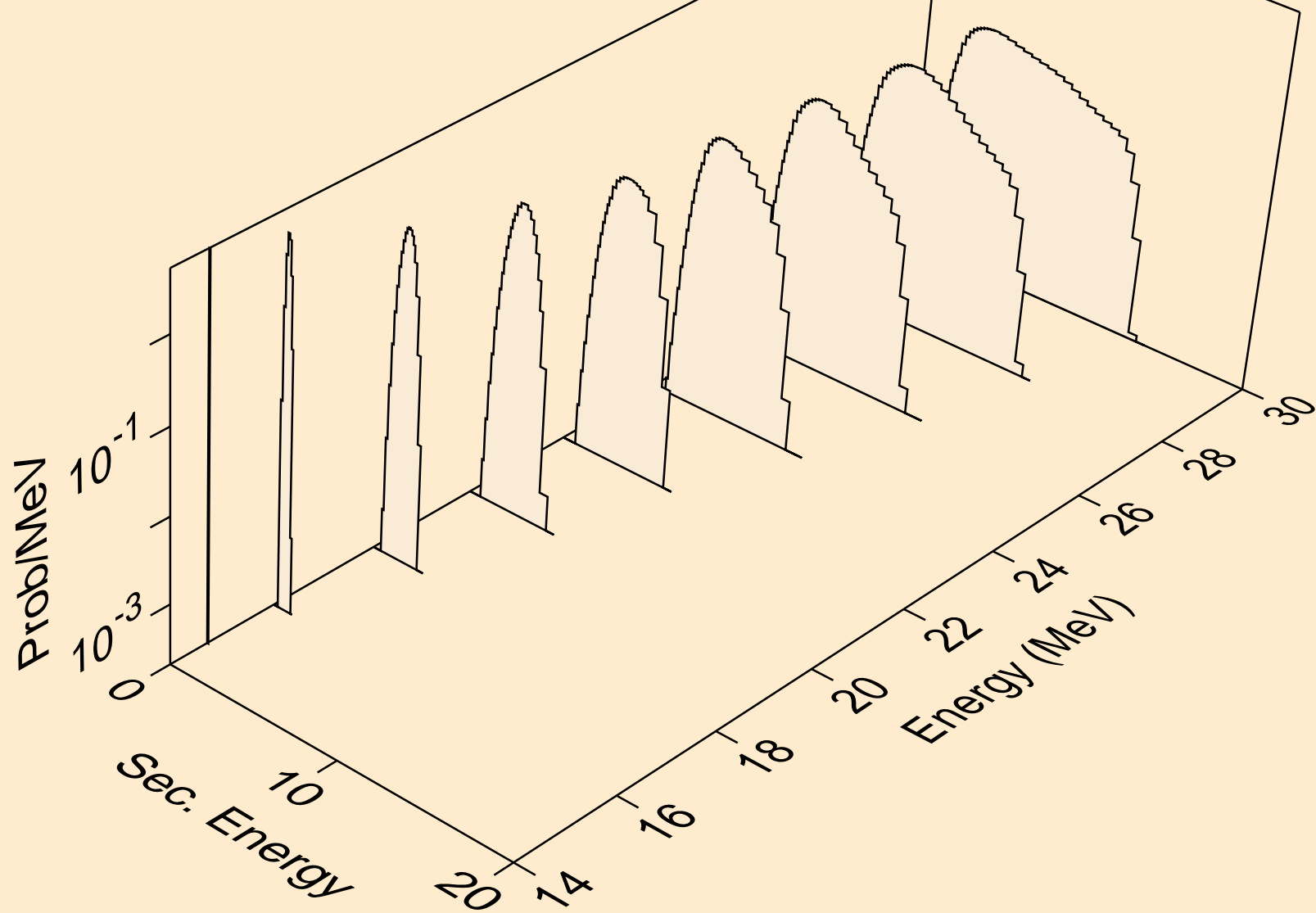




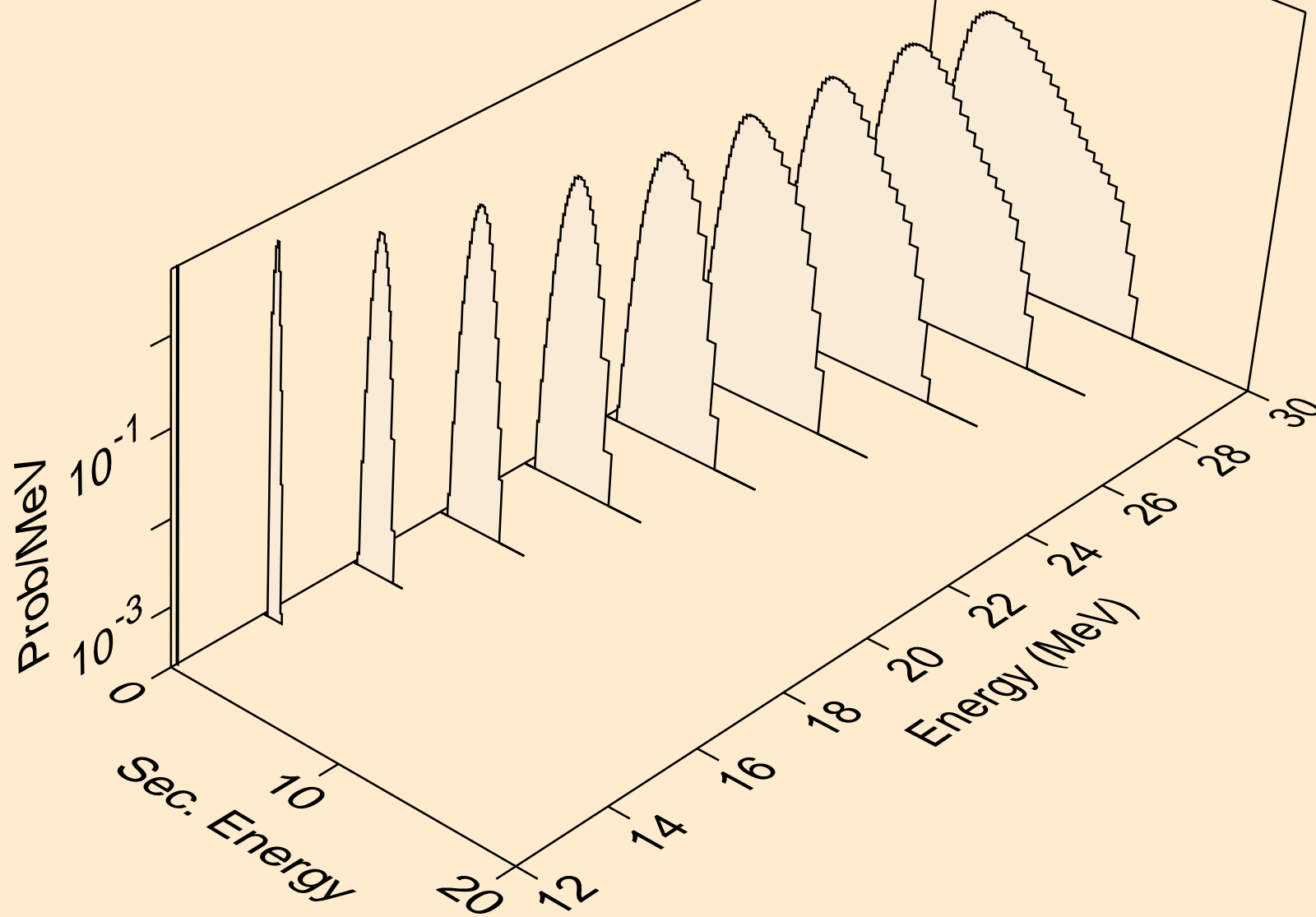
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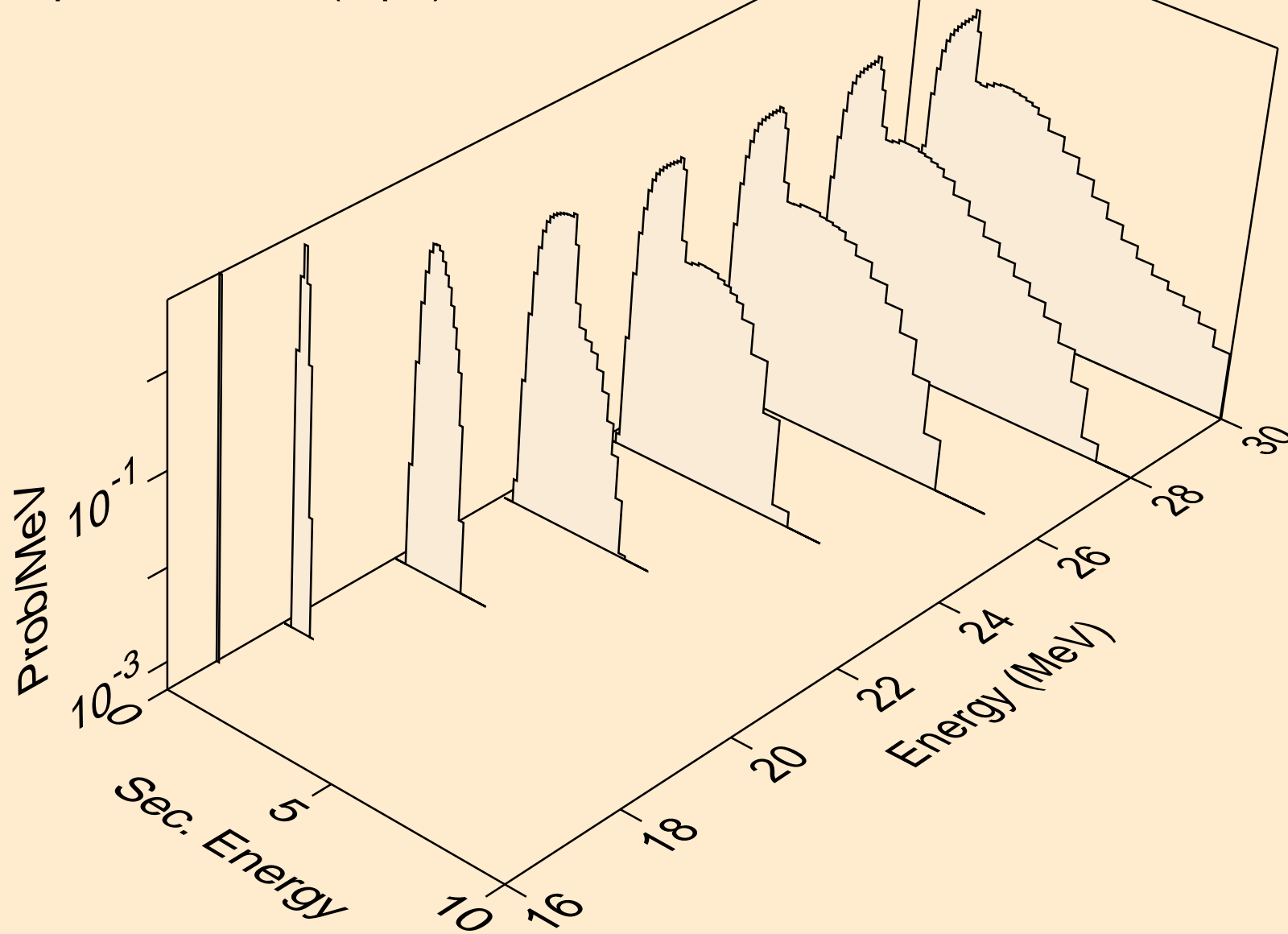
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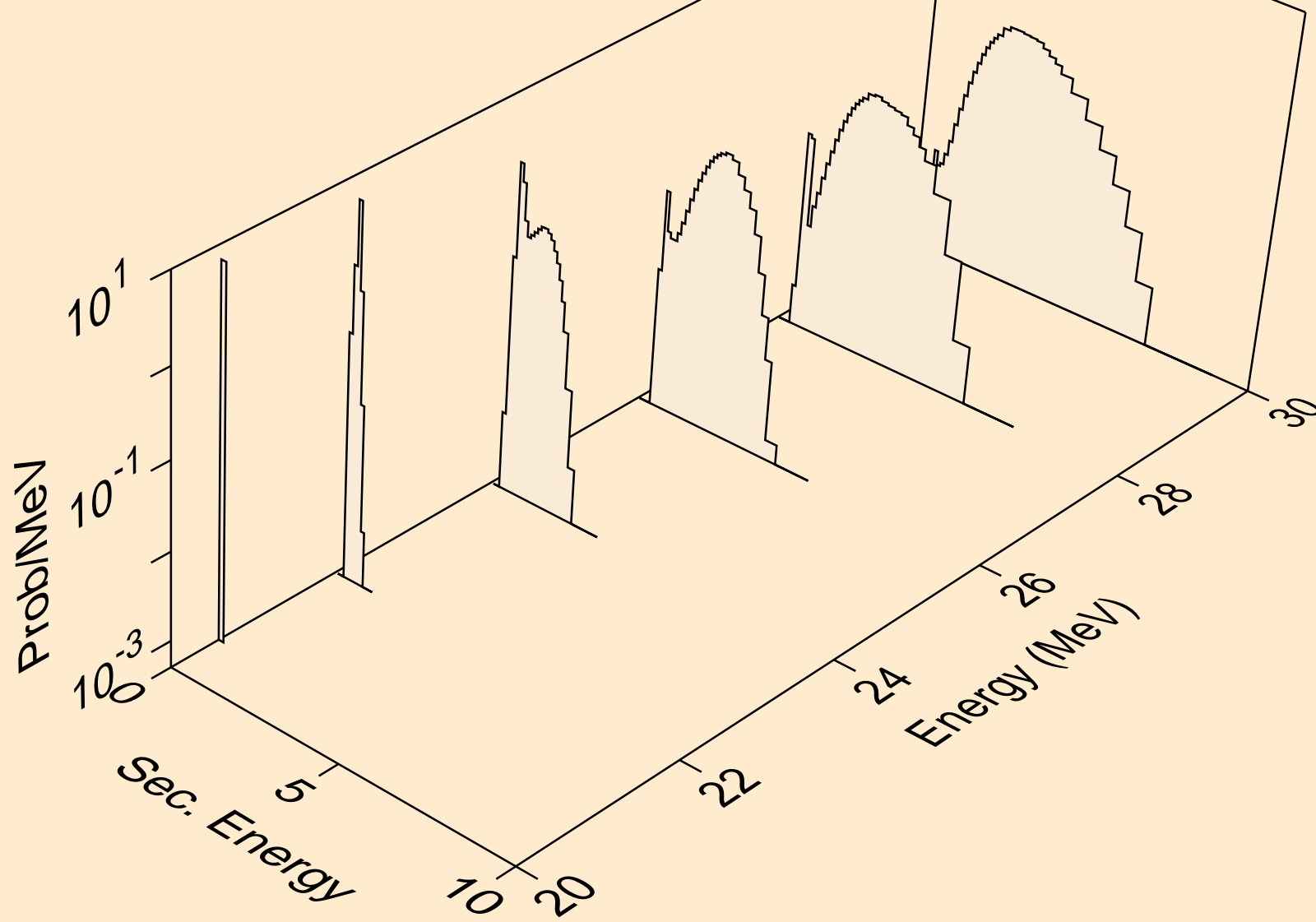
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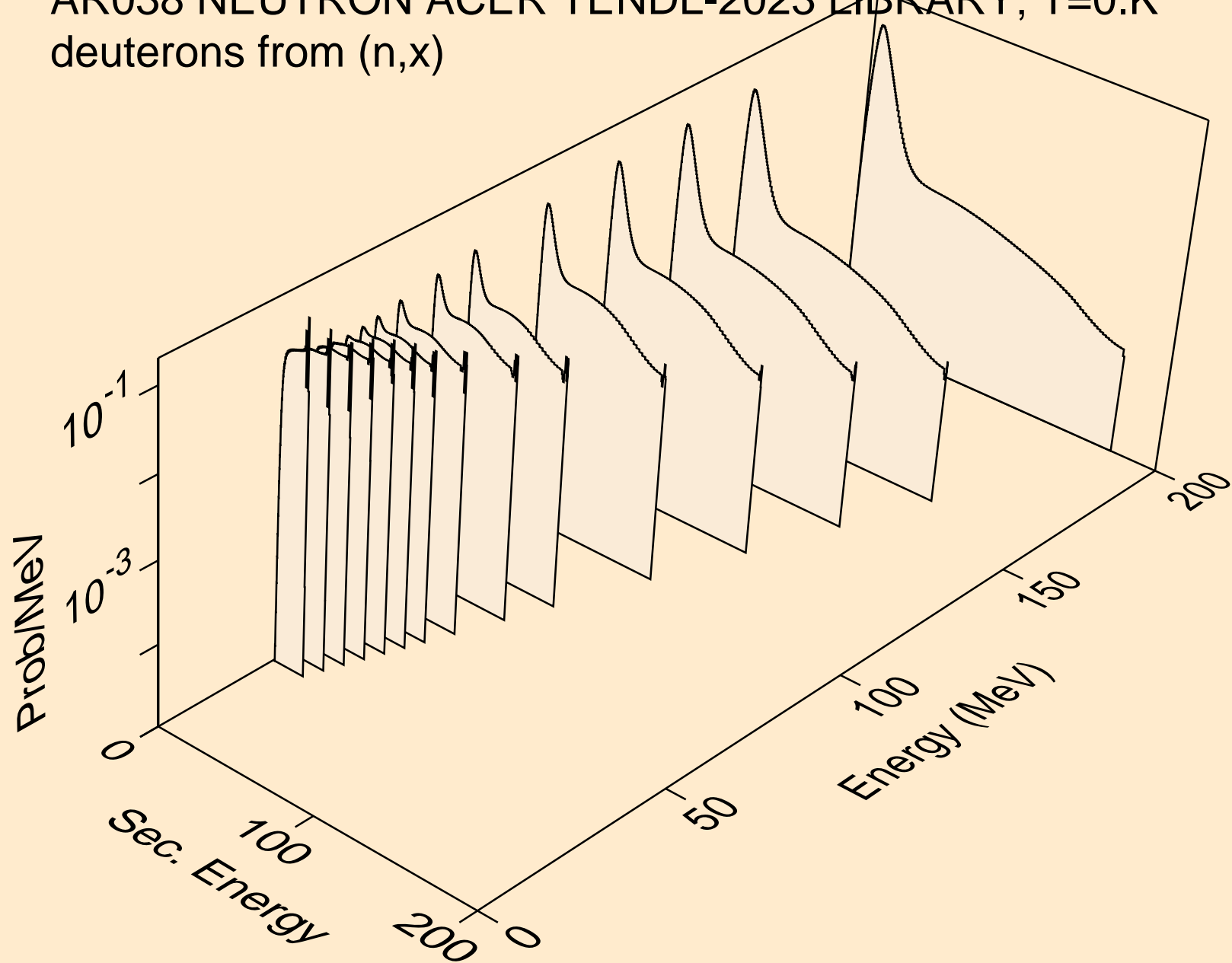
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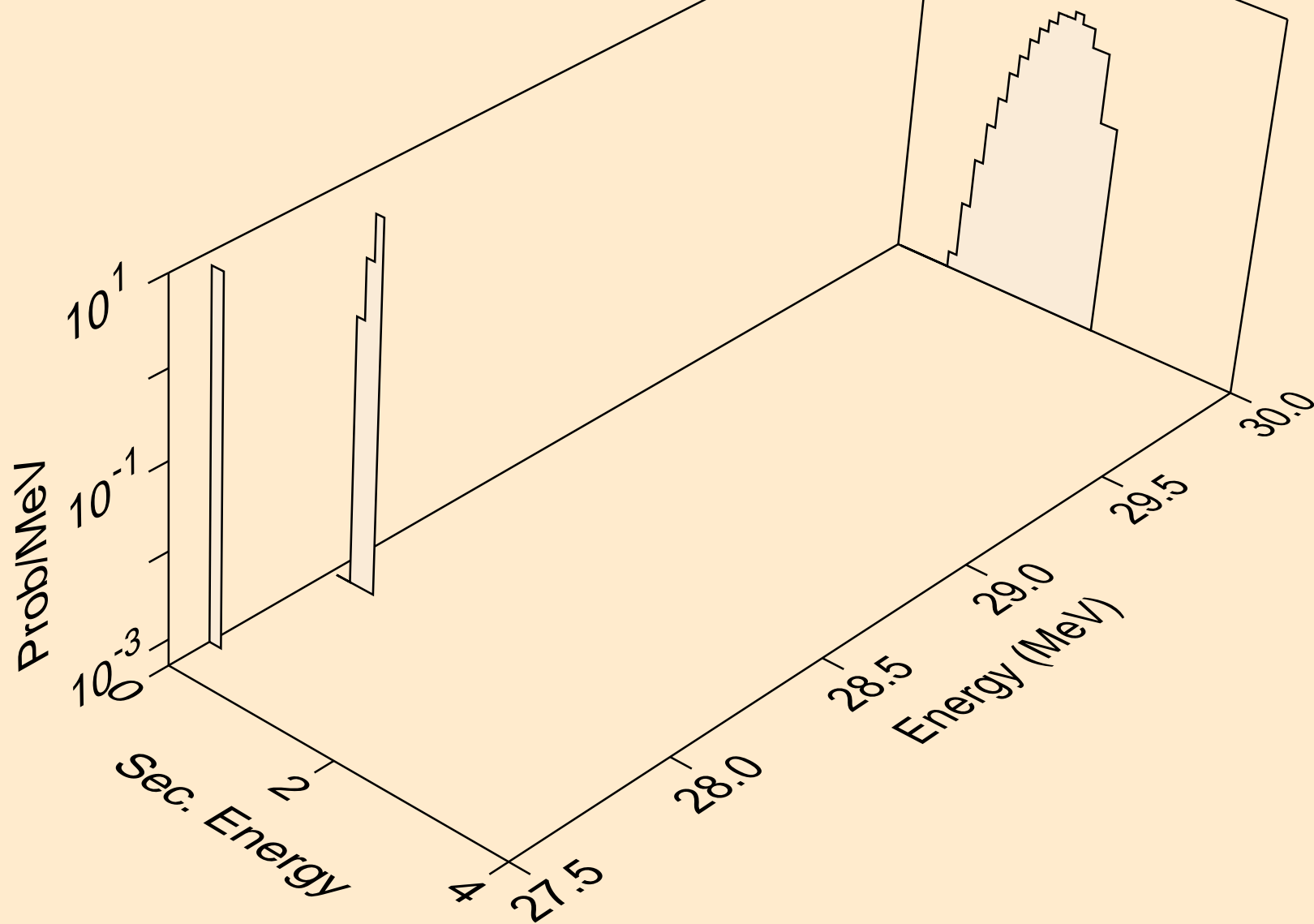
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protons from (n,pt)



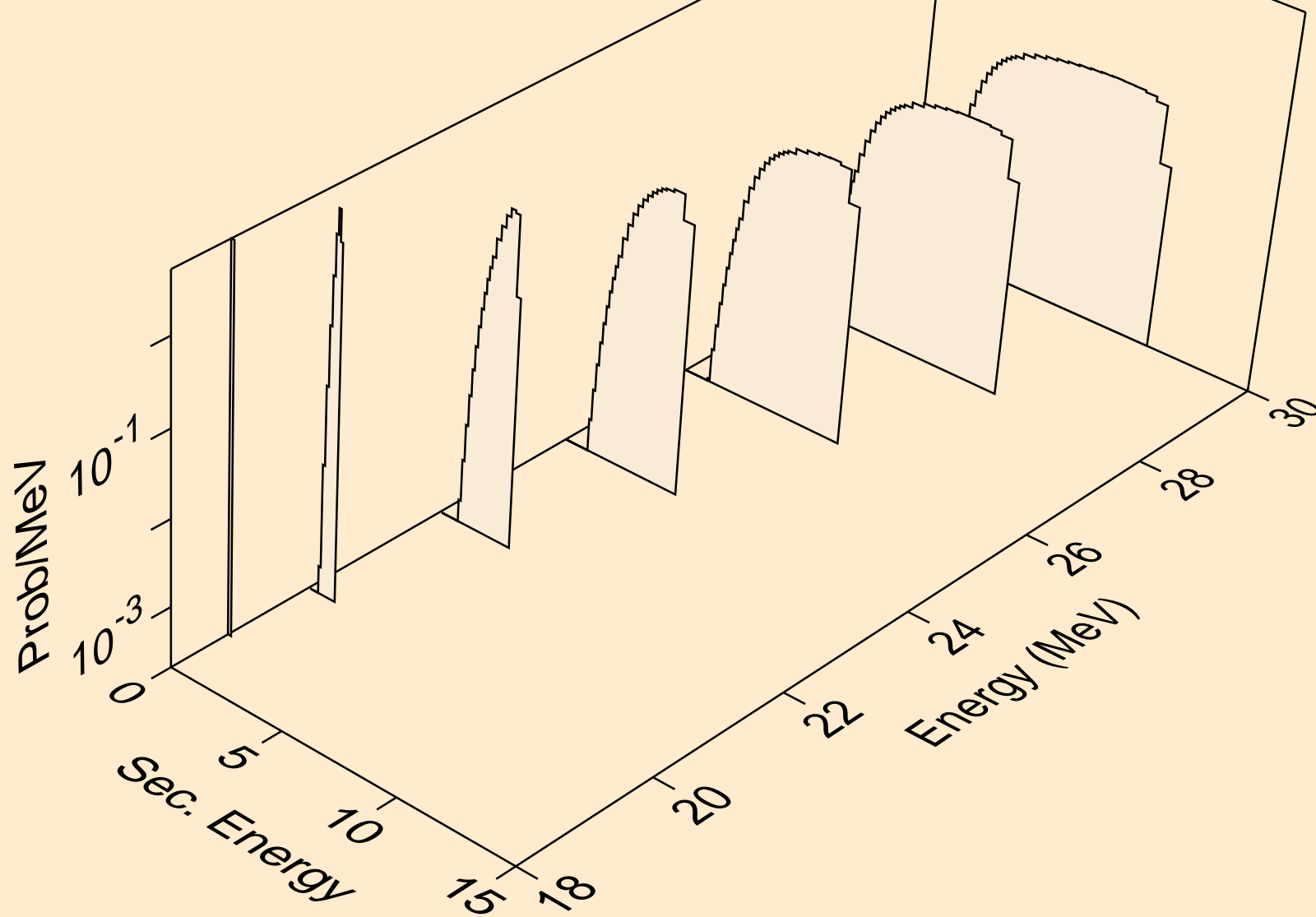
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deuterons from (n,x)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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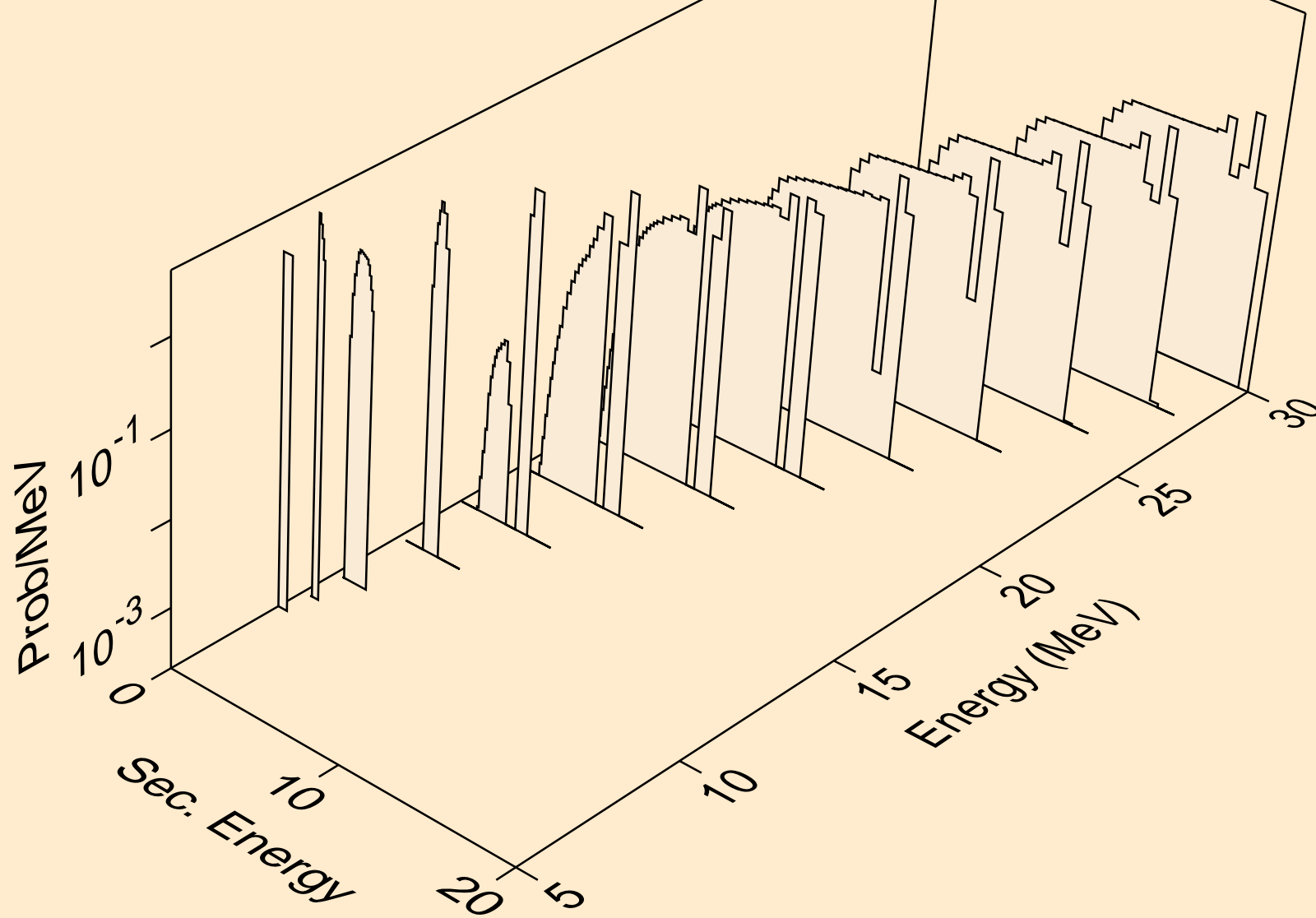


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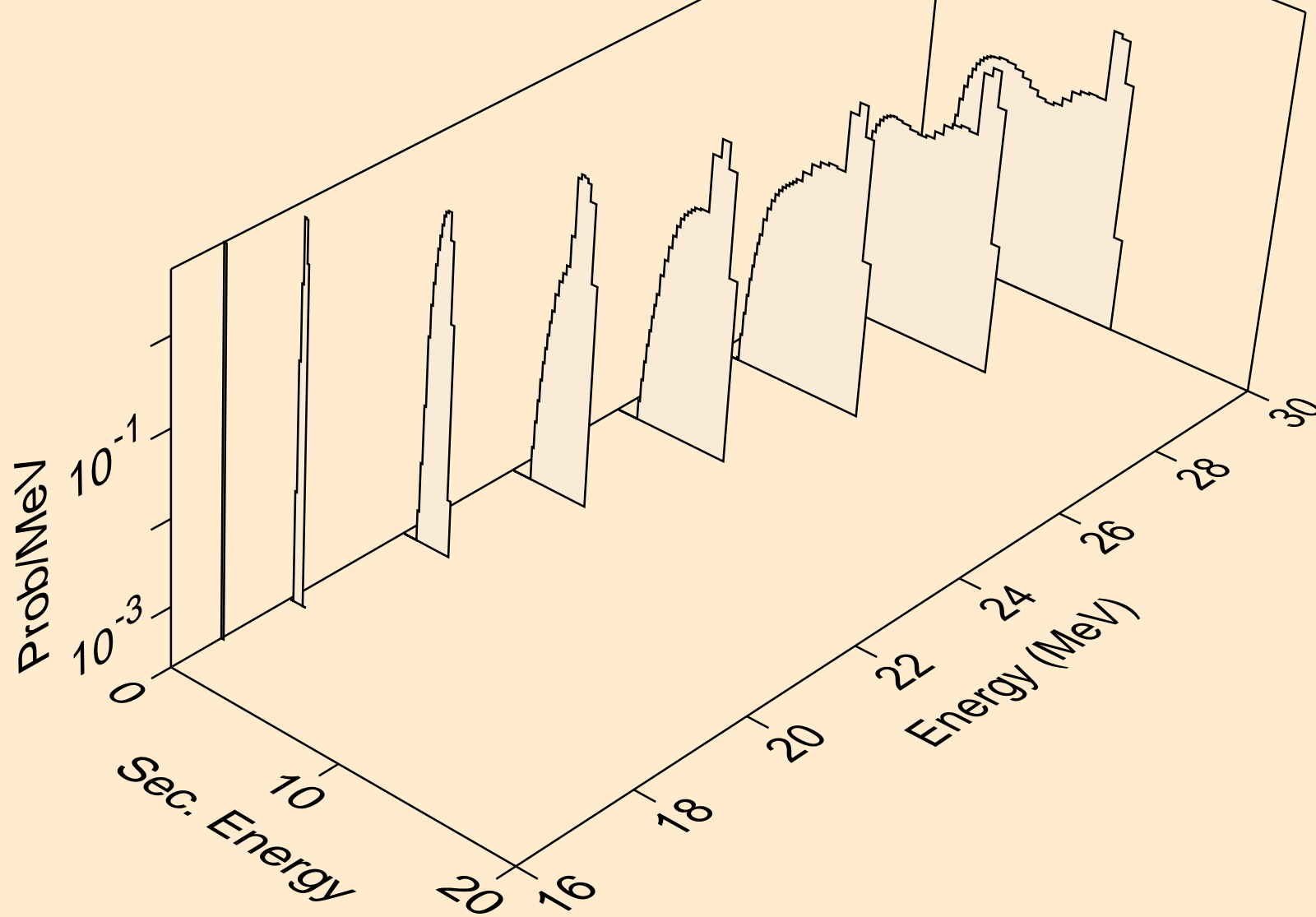




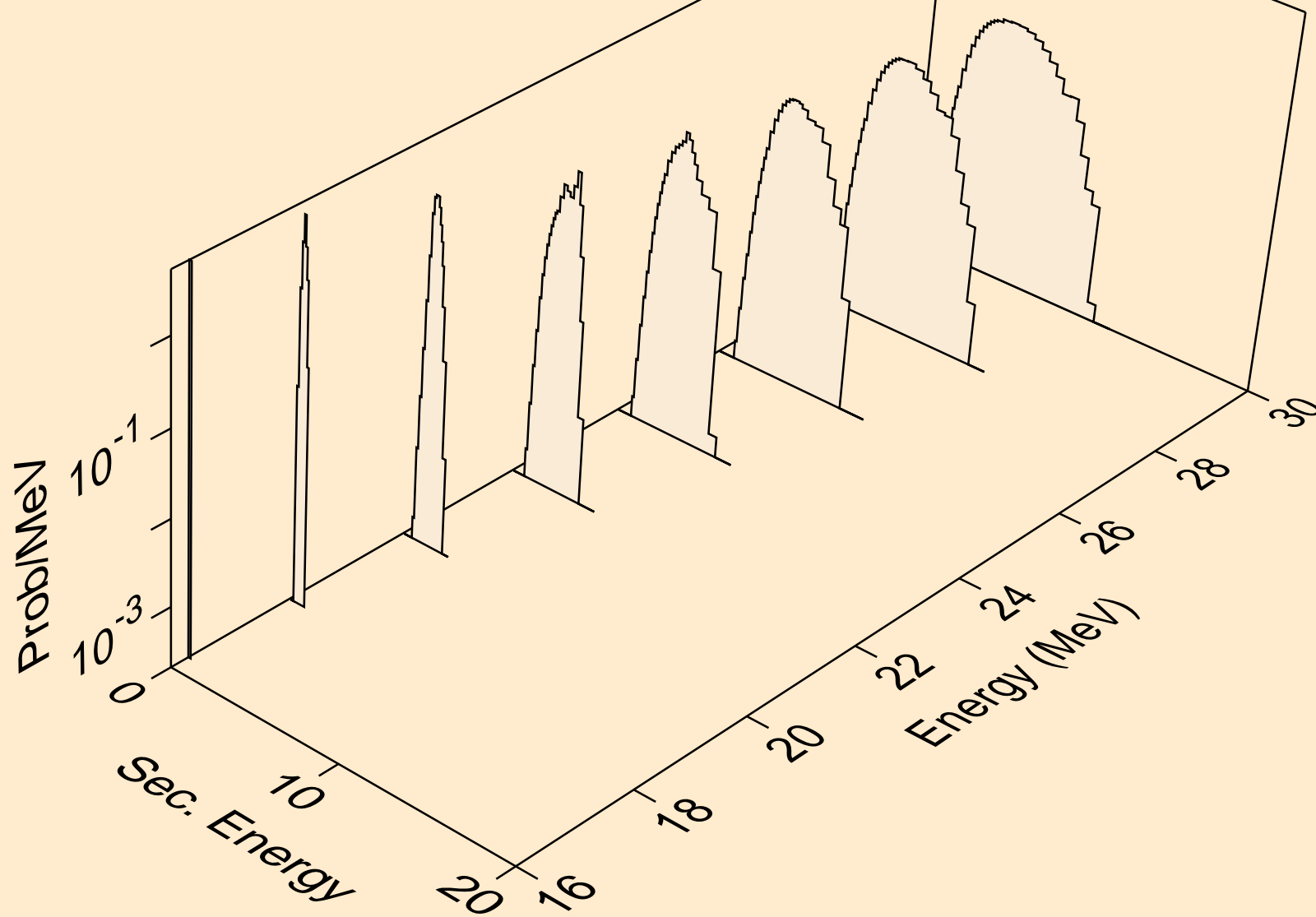
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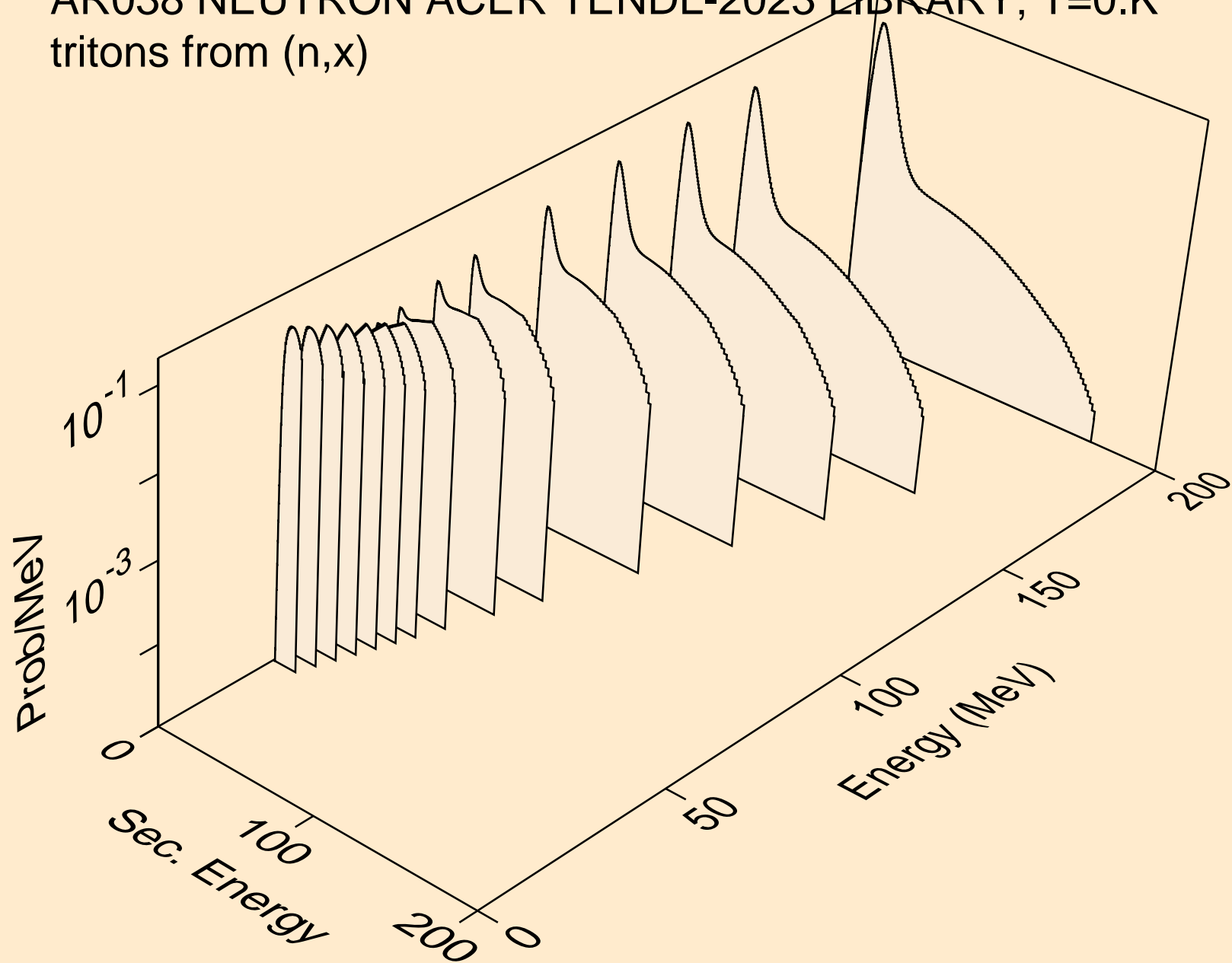
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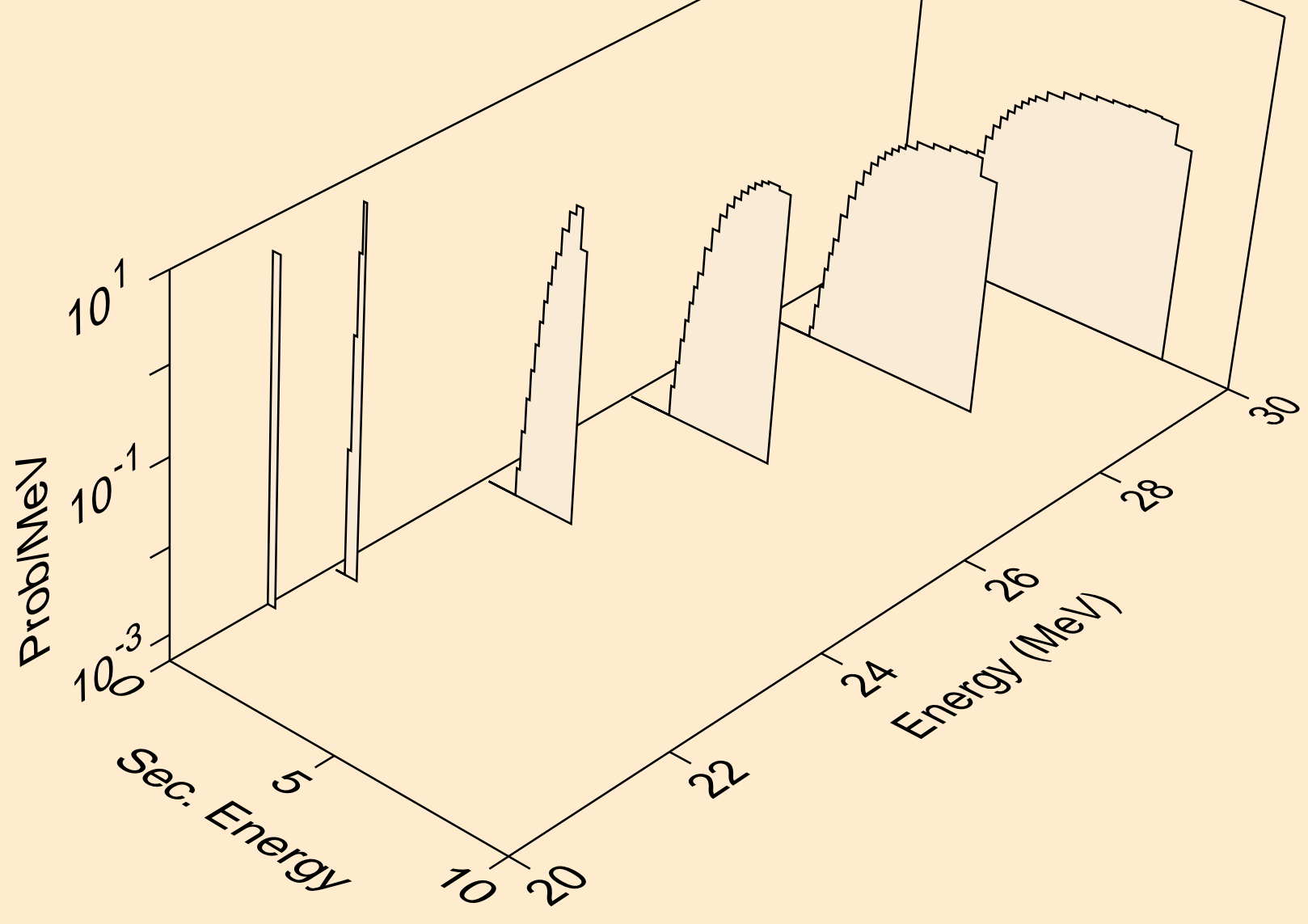
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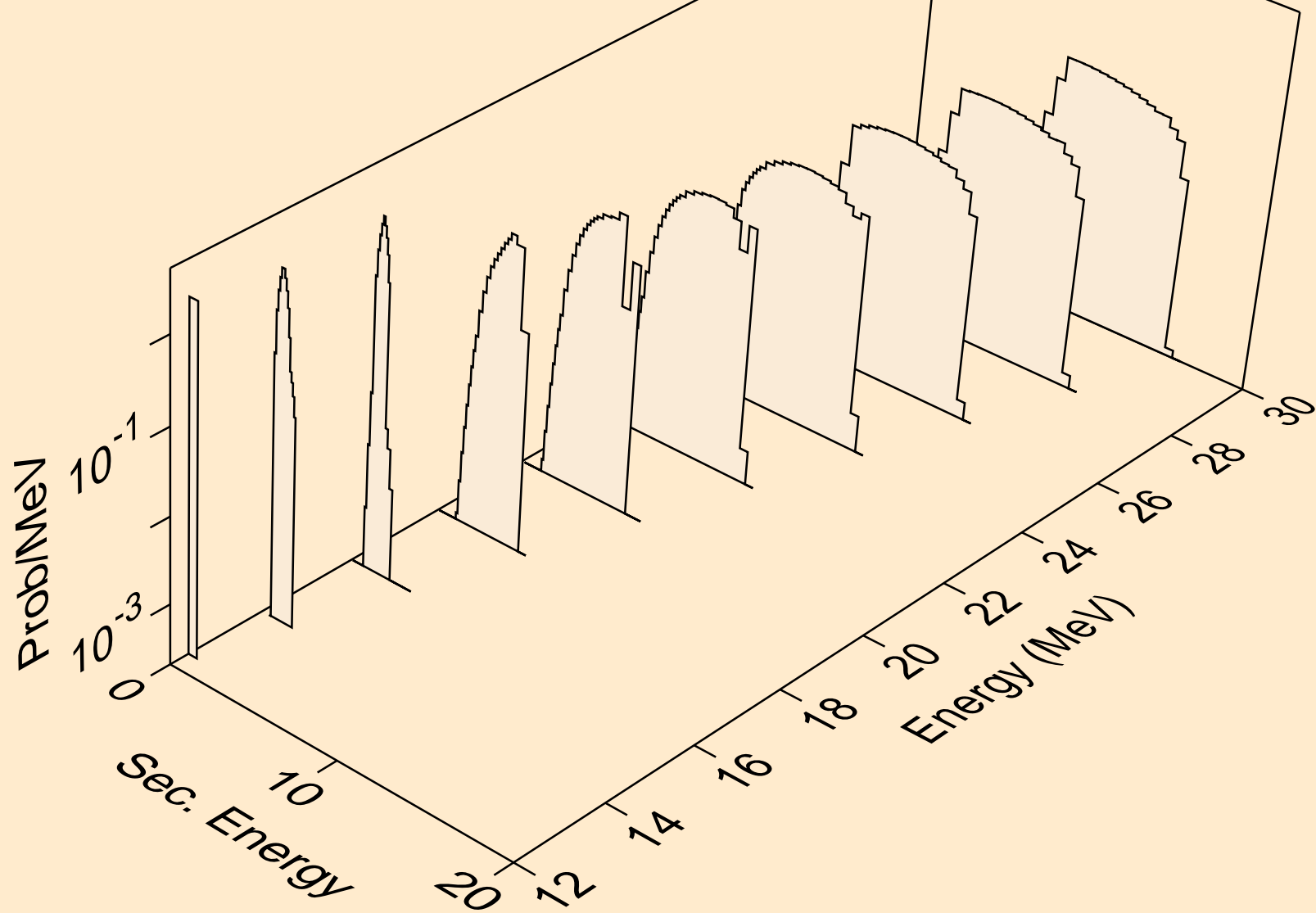
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tritons from (n,x)



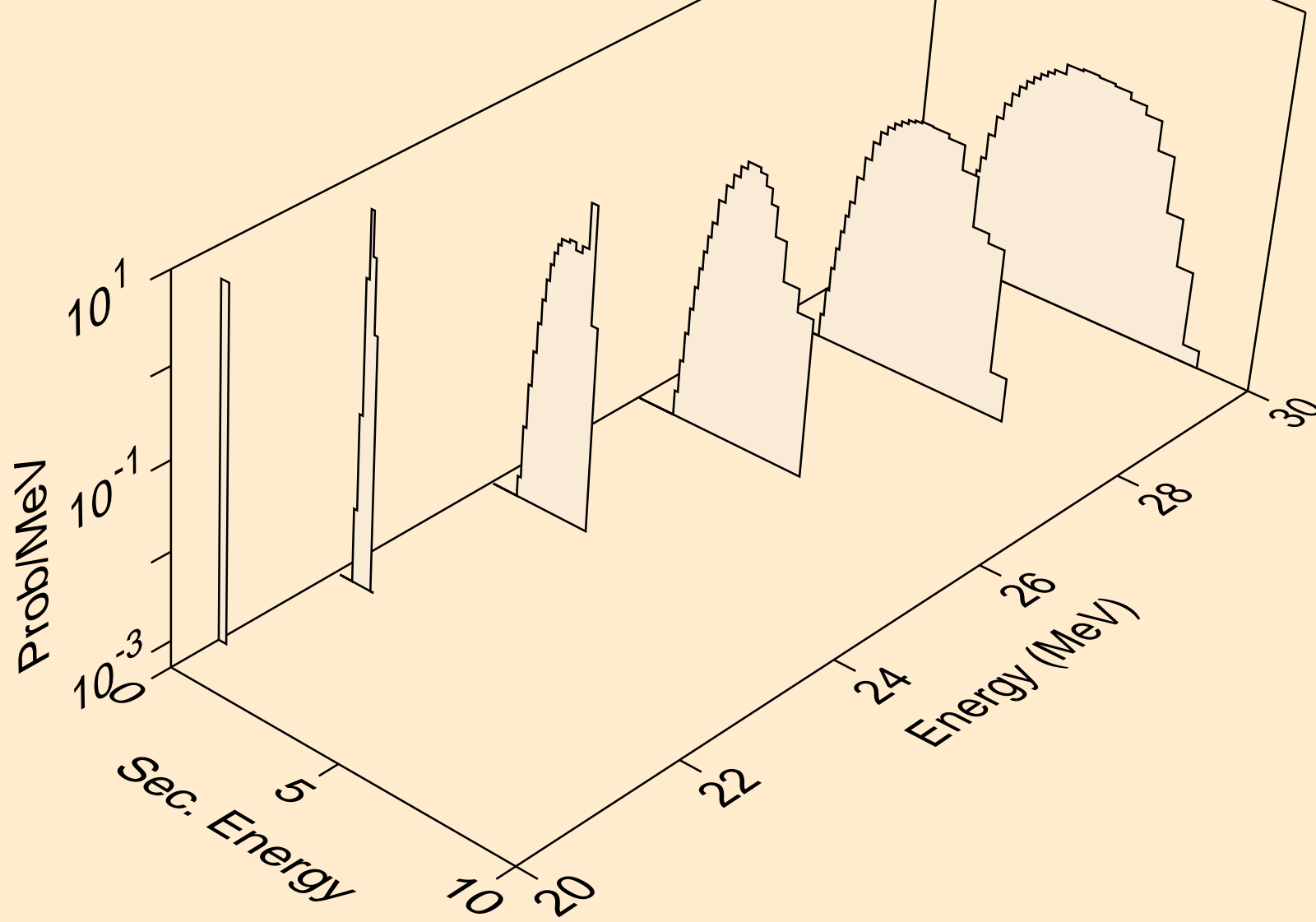
AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



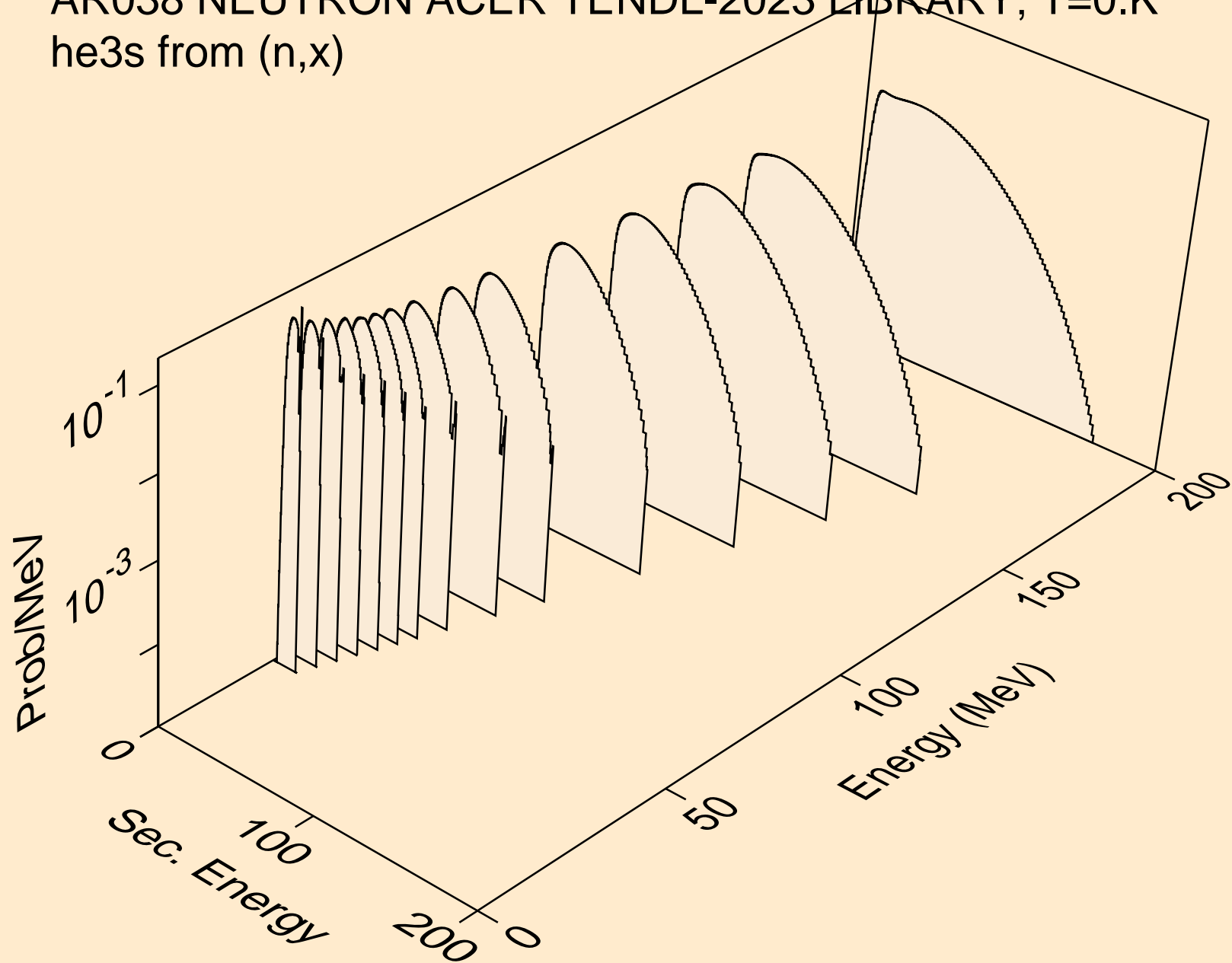
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AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)

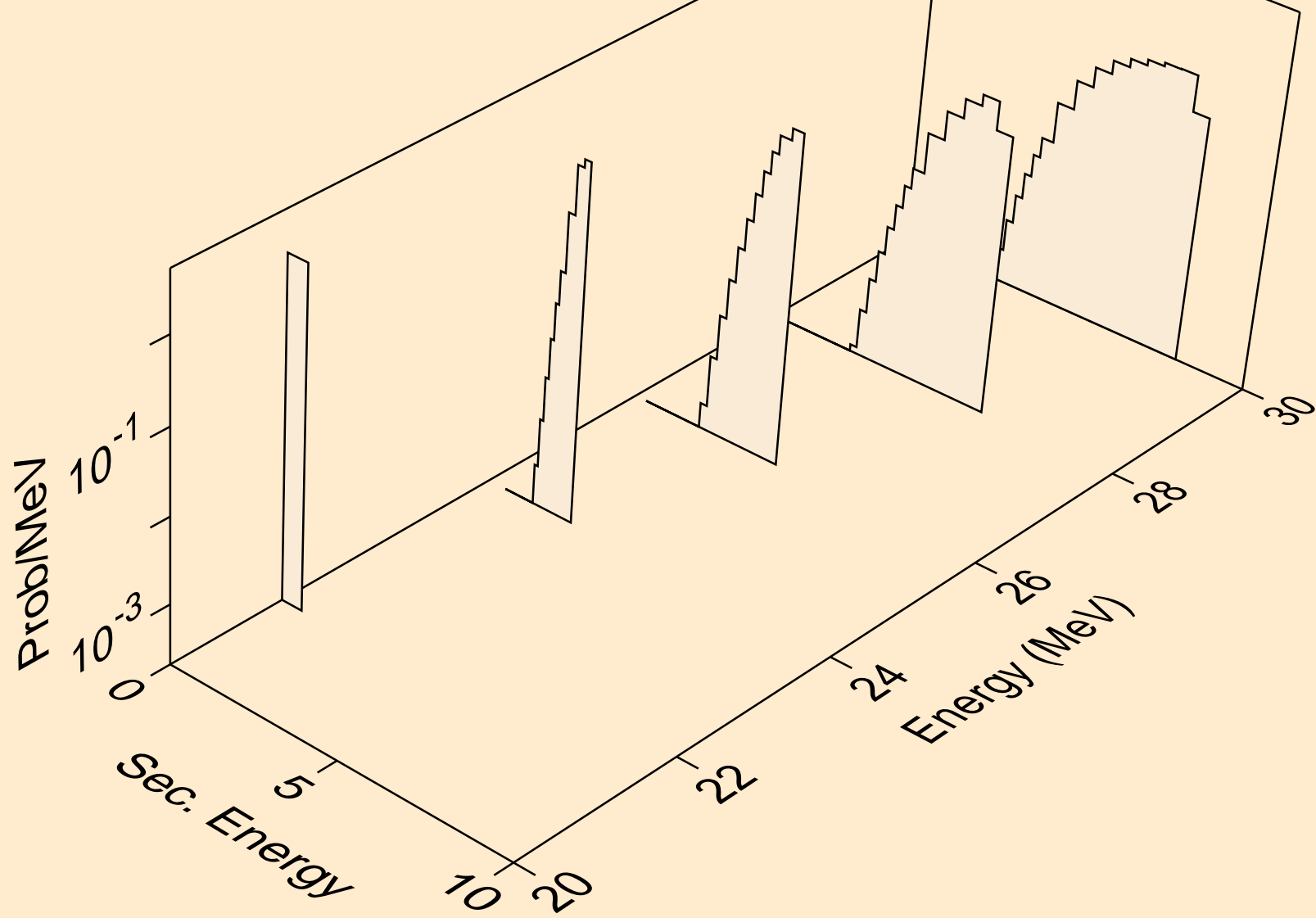


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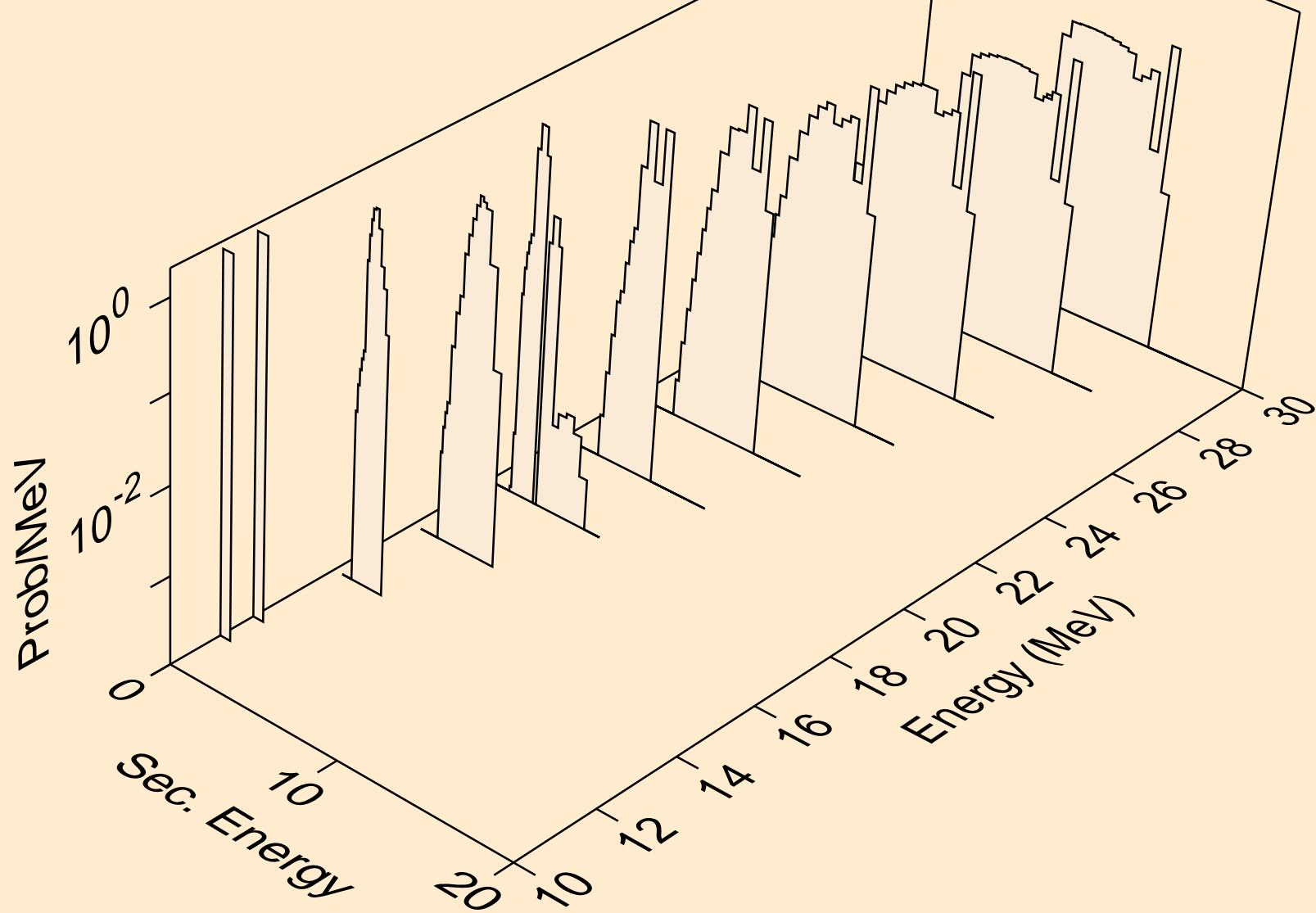




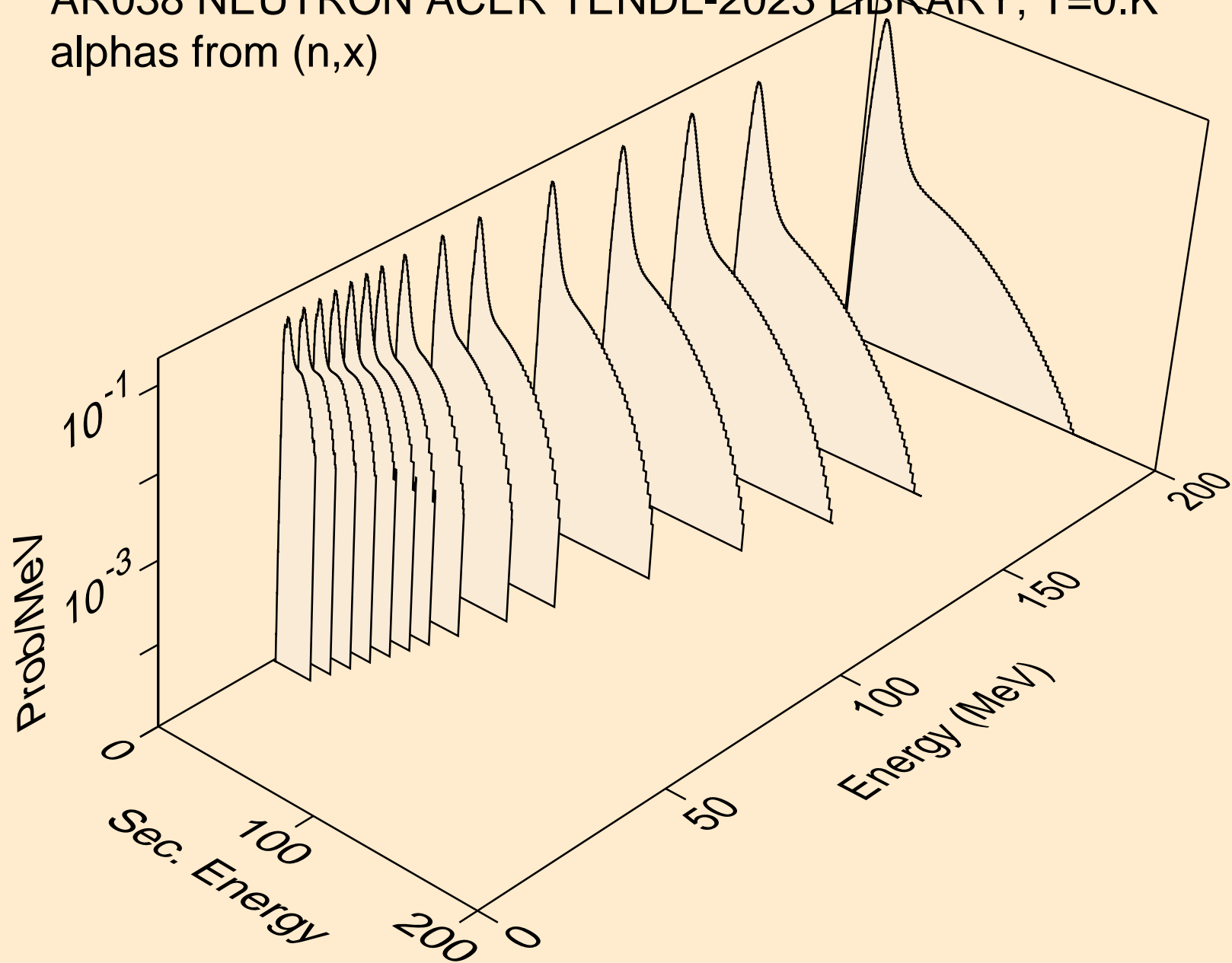
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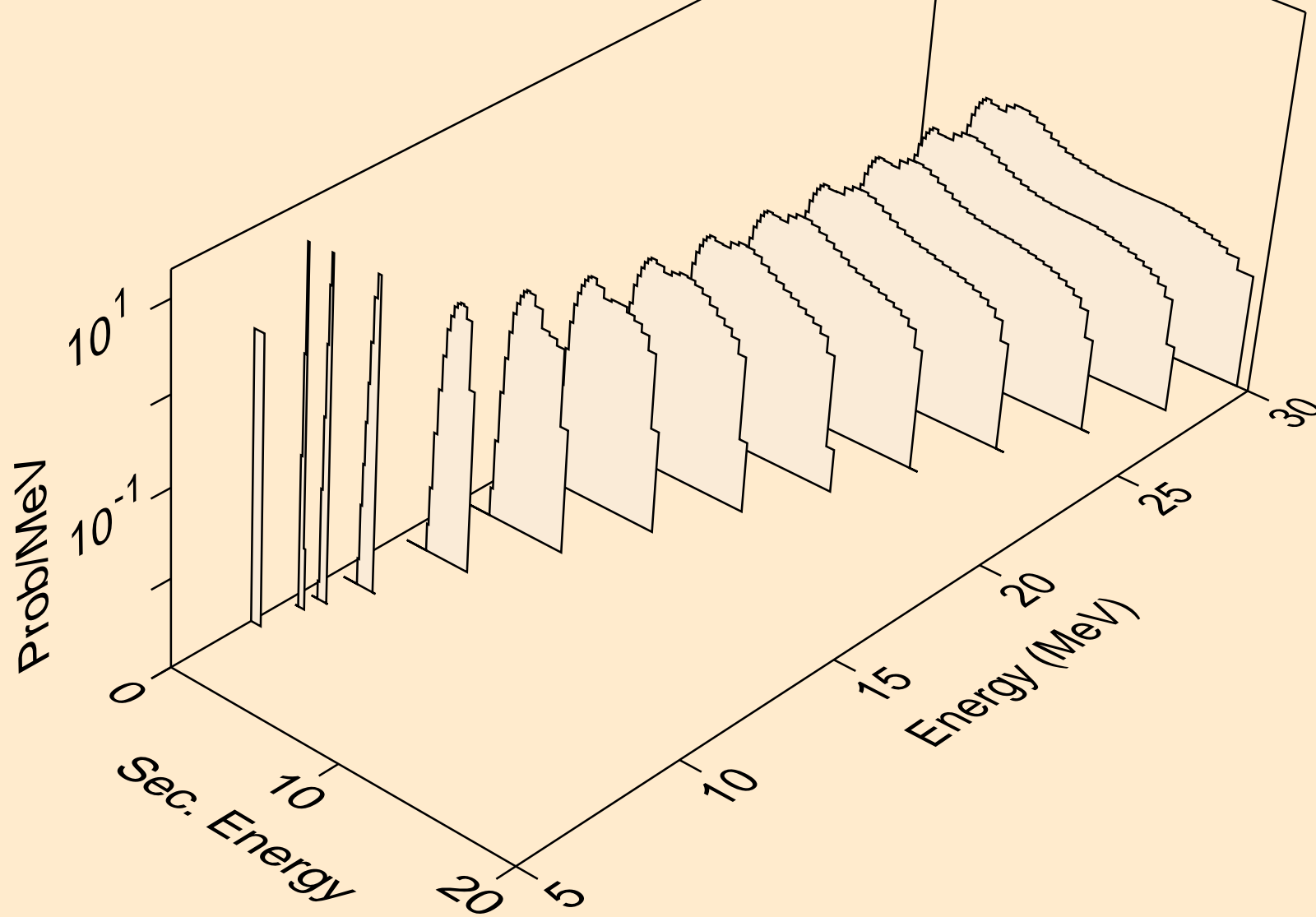
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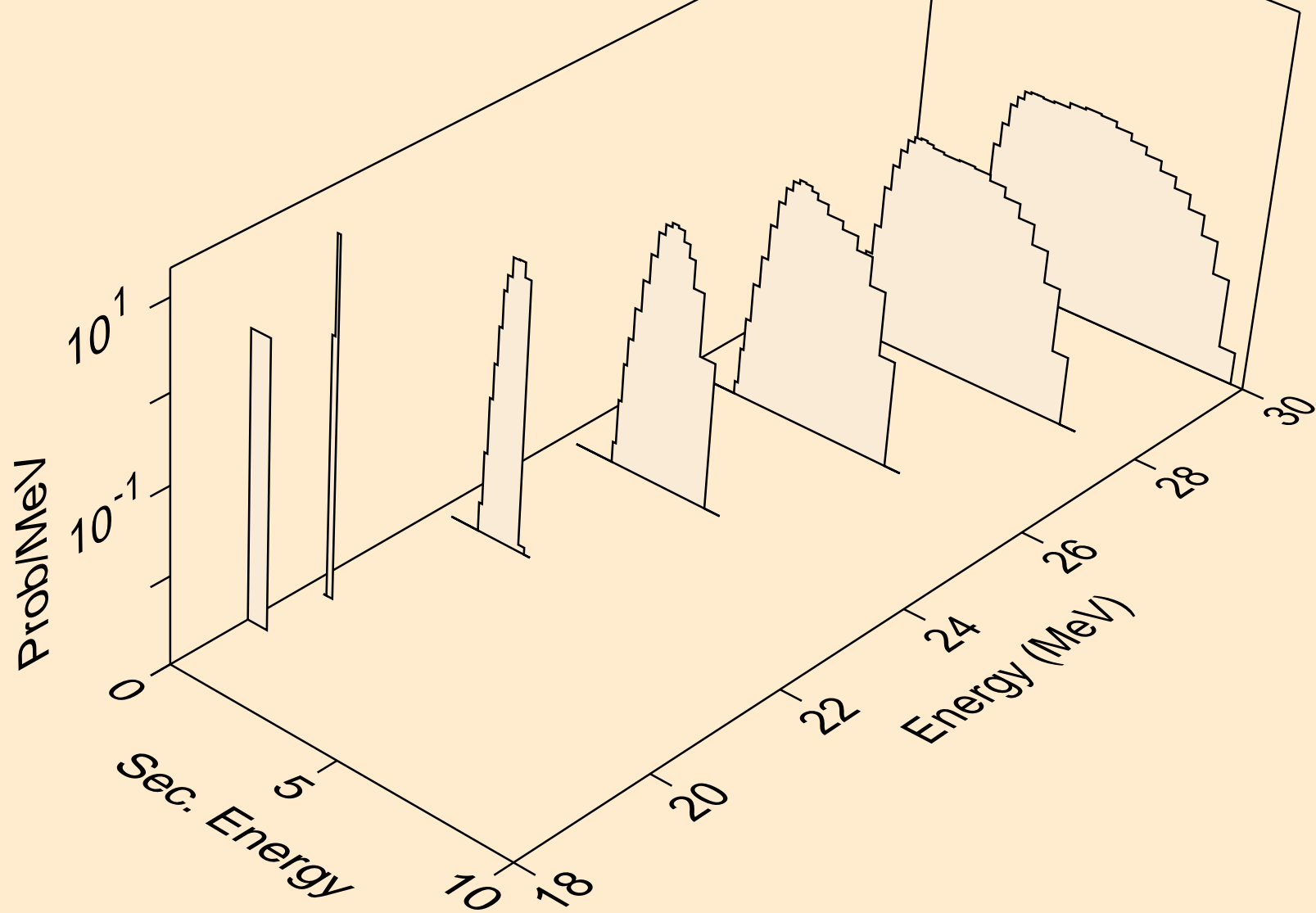
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alphas from (n,x)



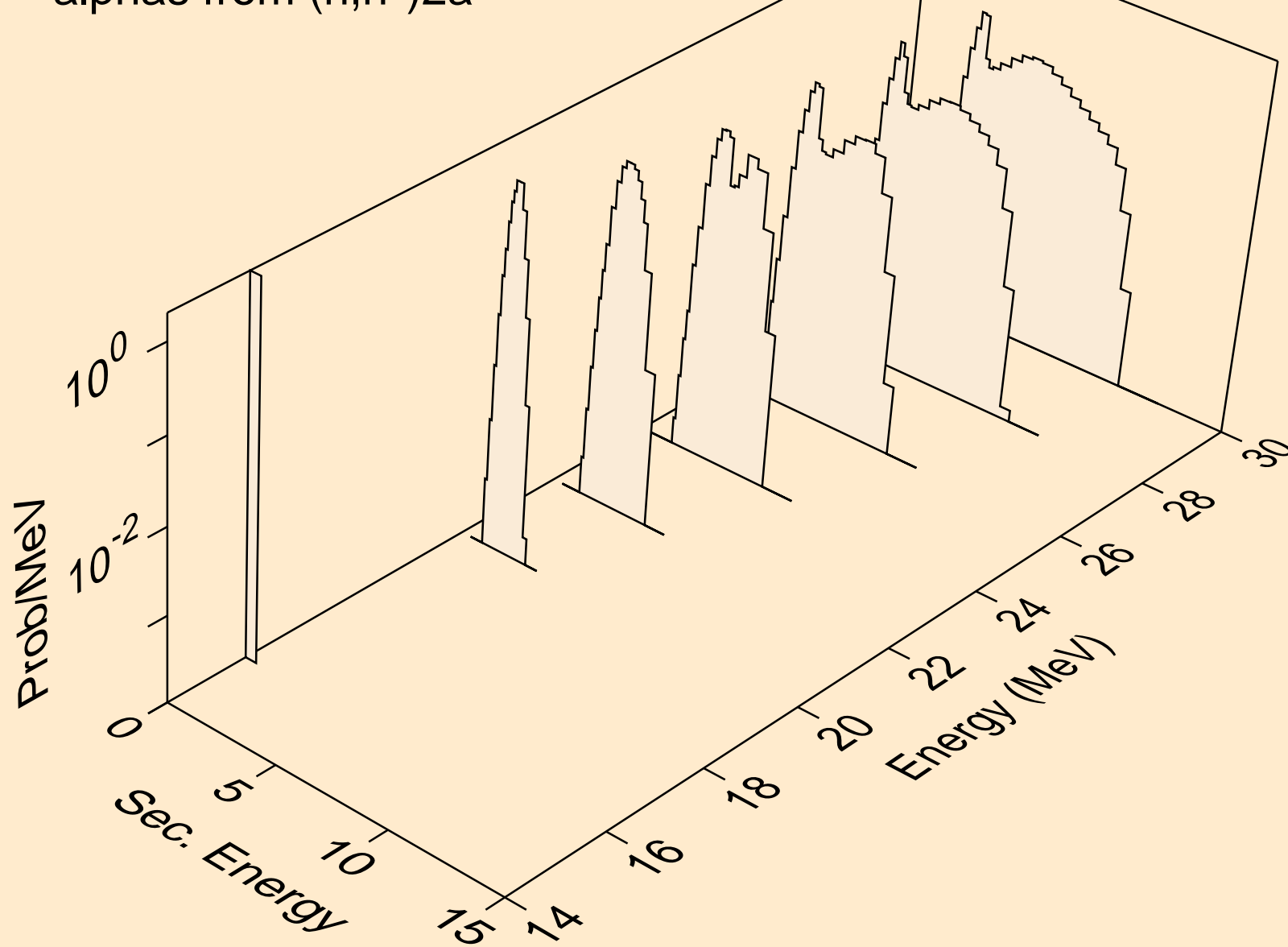
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alphas from (n,n\*)a



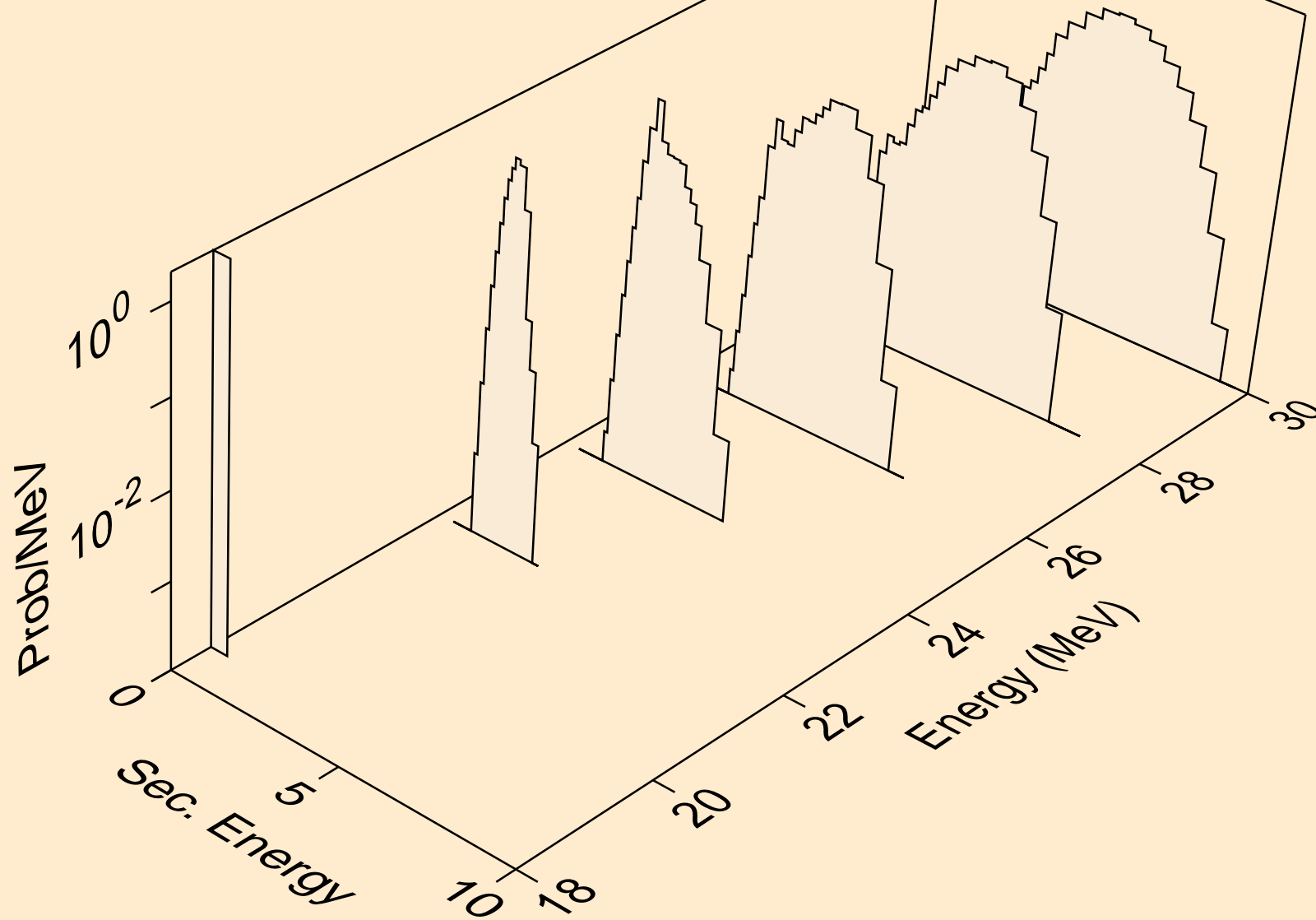
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alphas from (n,2n)a



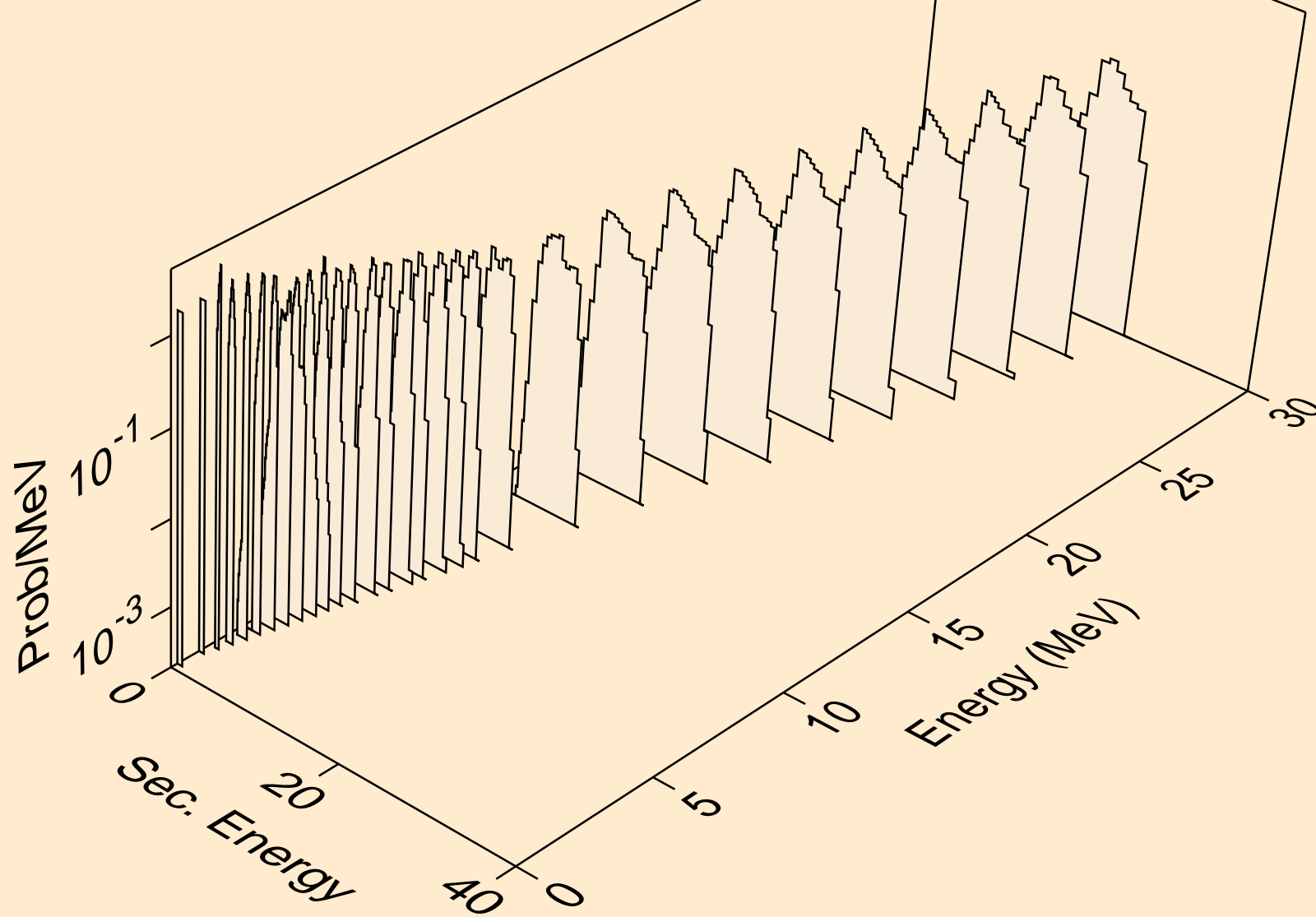
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alphas from (n,n\*)2a



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)

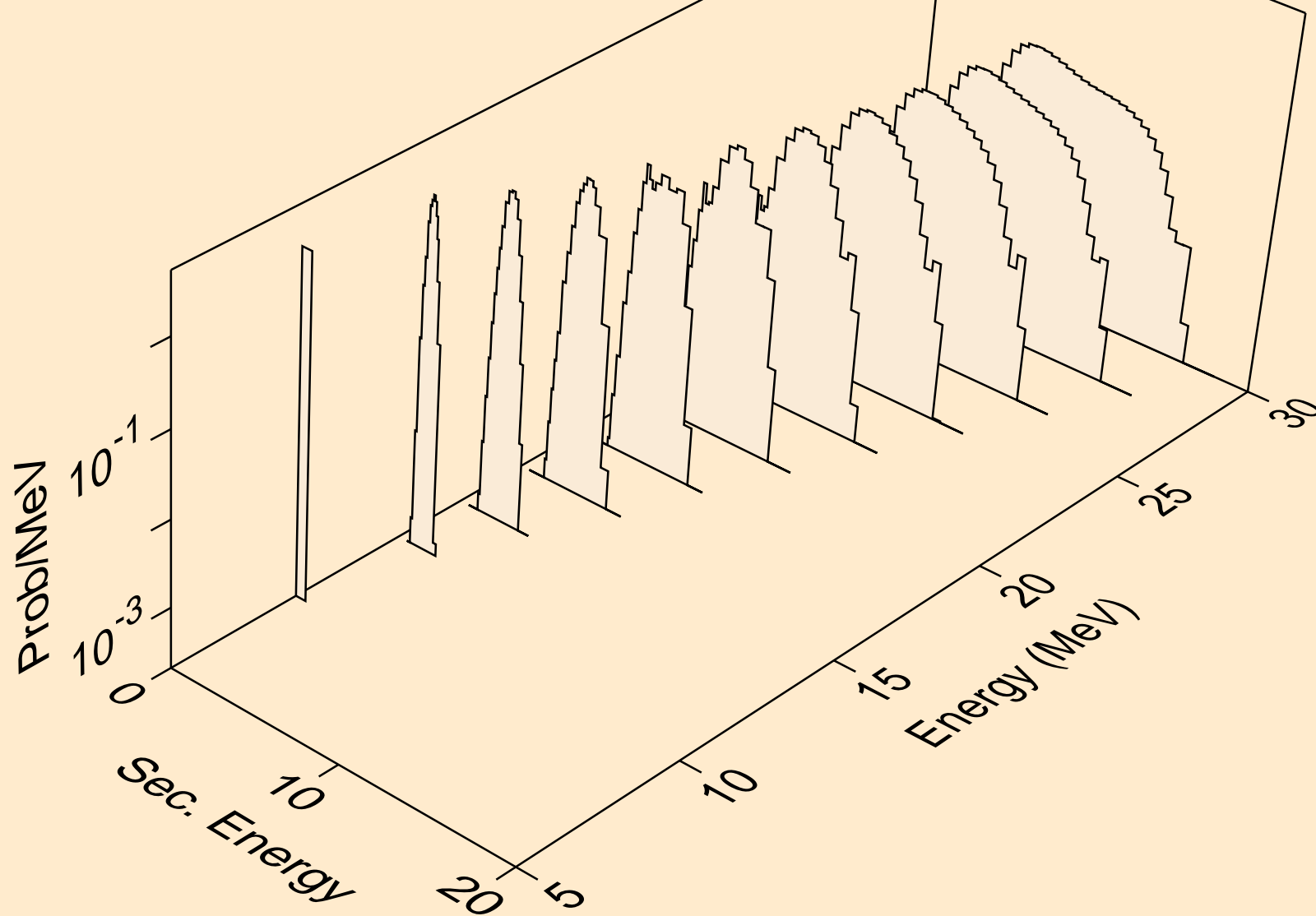


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alphas from (n,a)

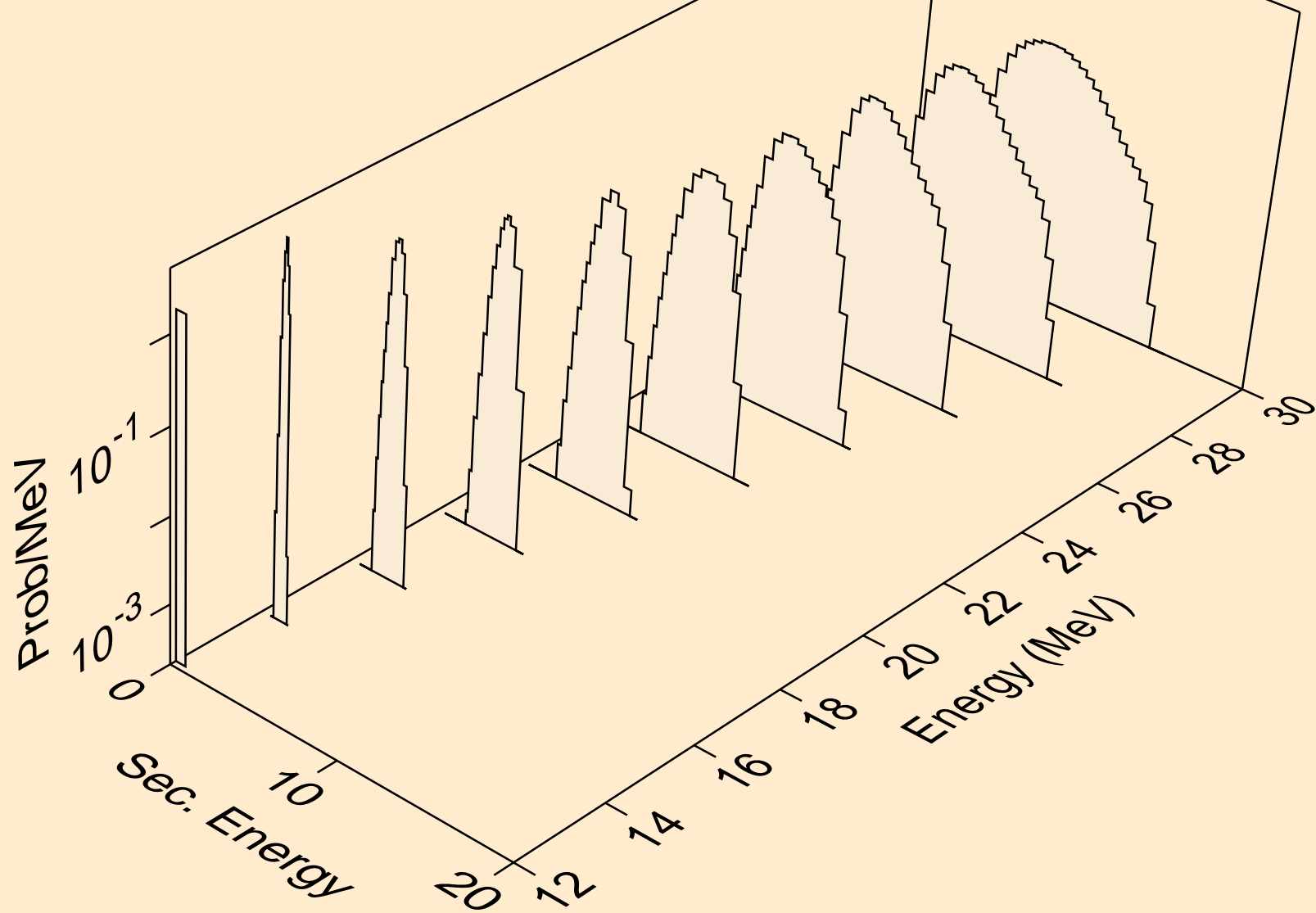




AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



AR038 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

