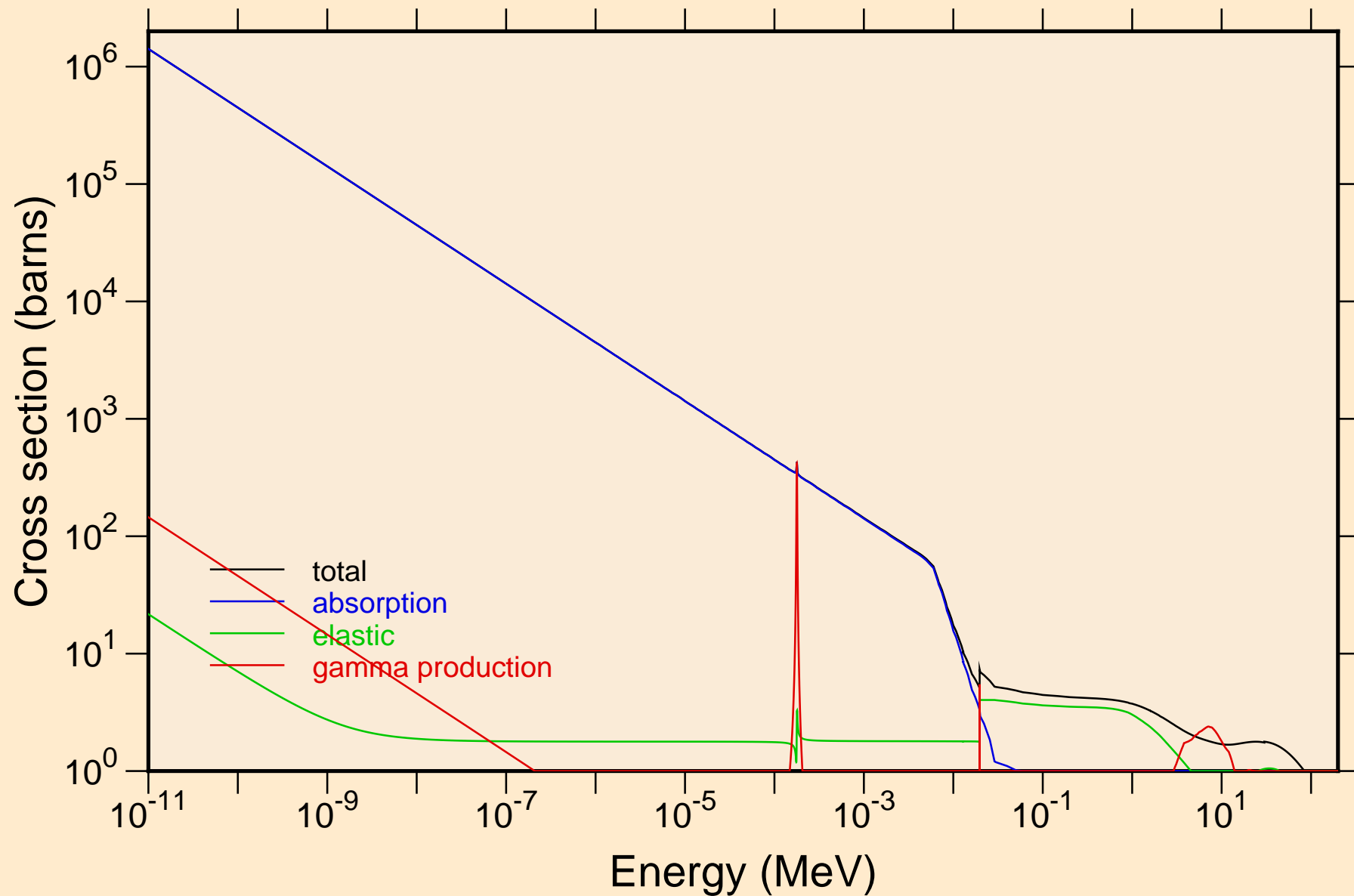
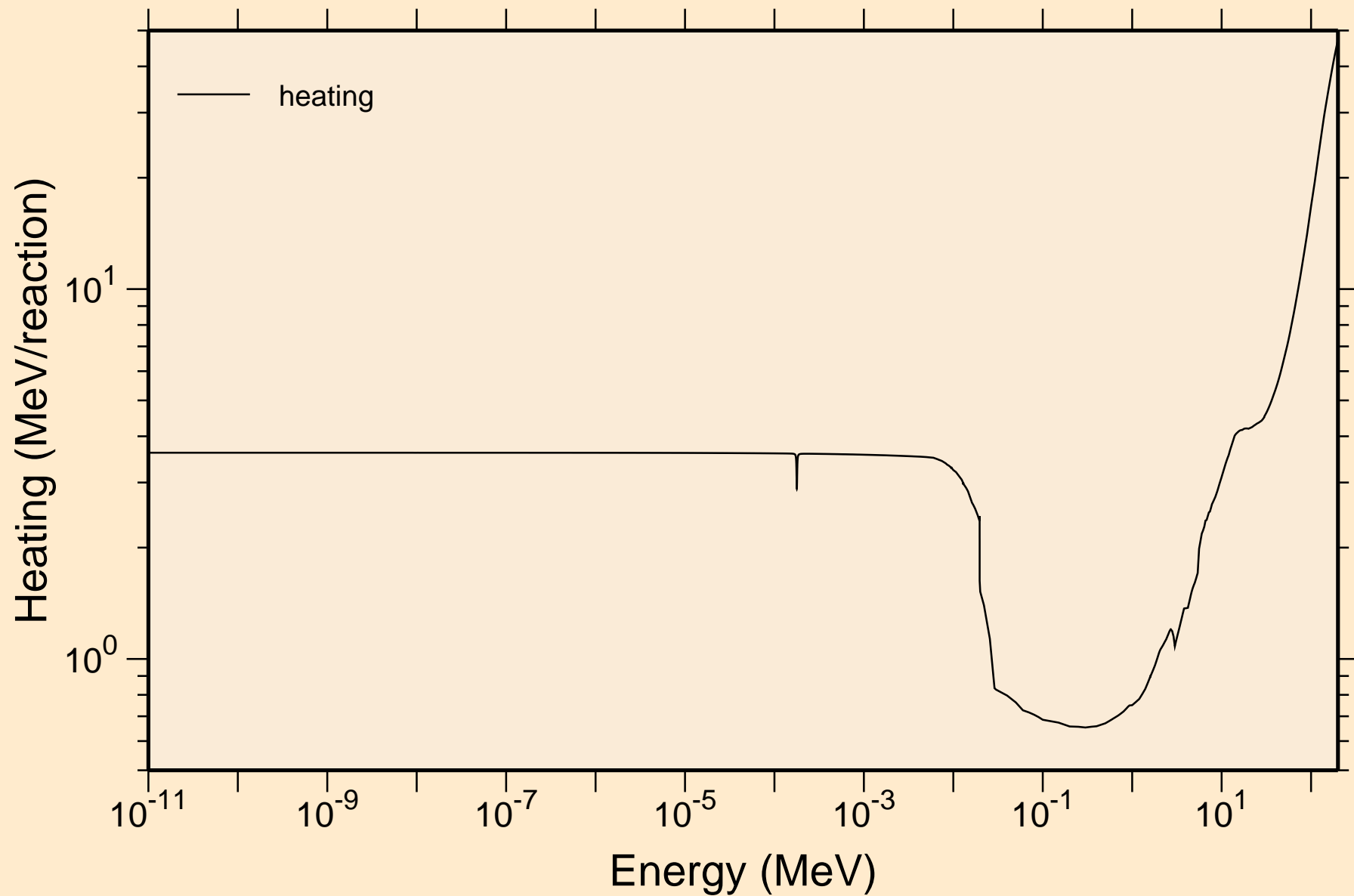


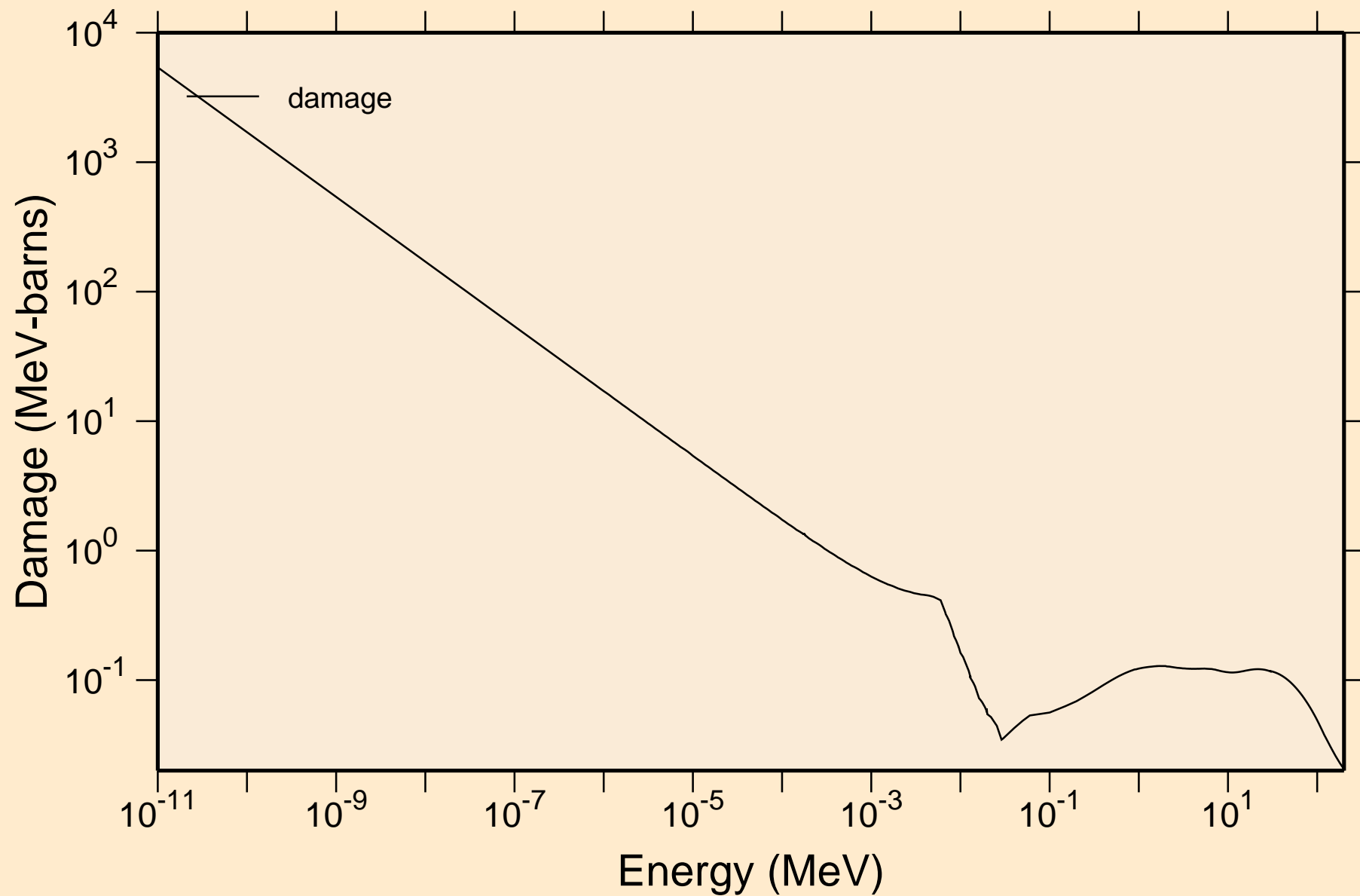
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Principal cross sections



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

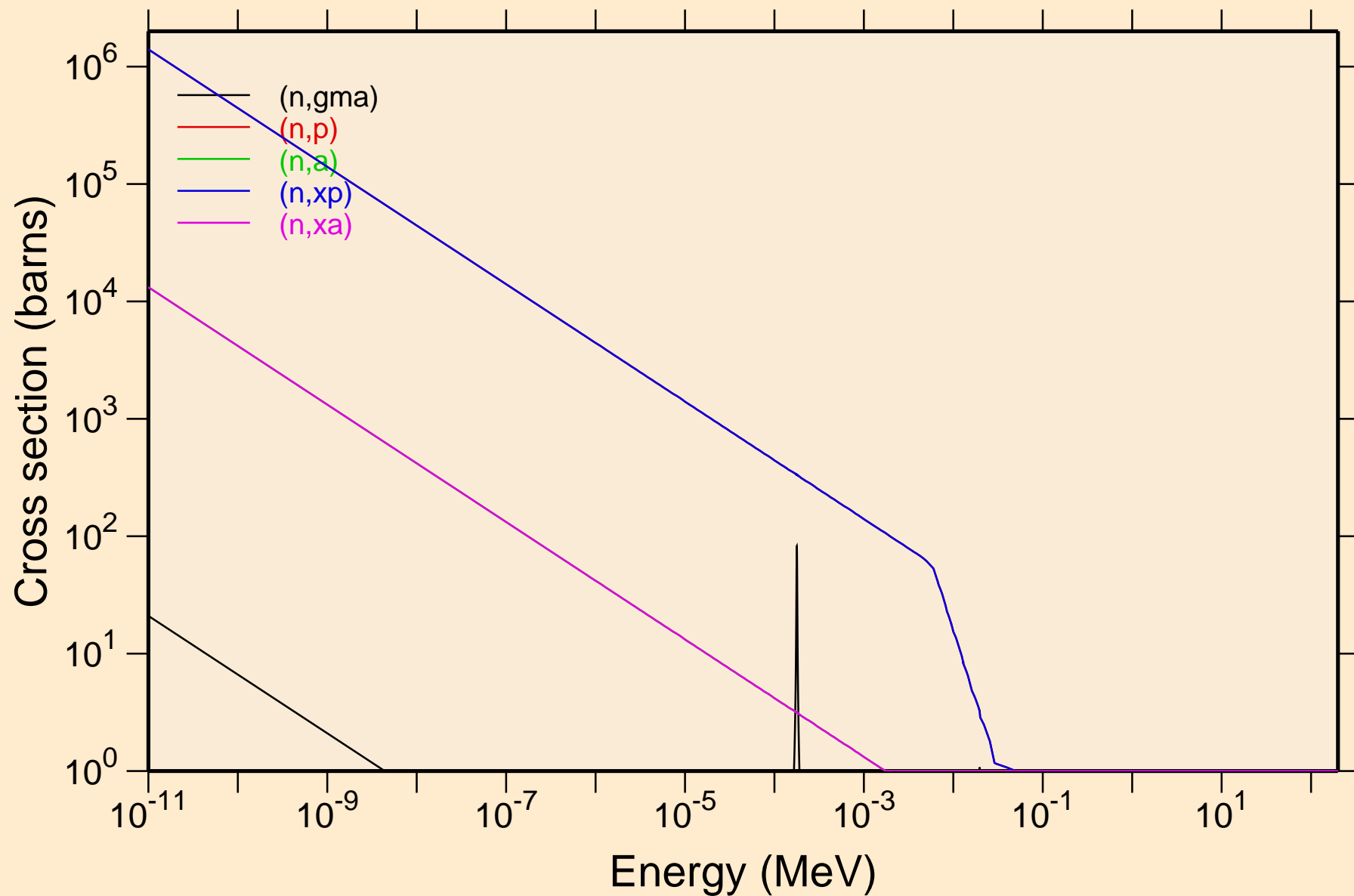


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Damage



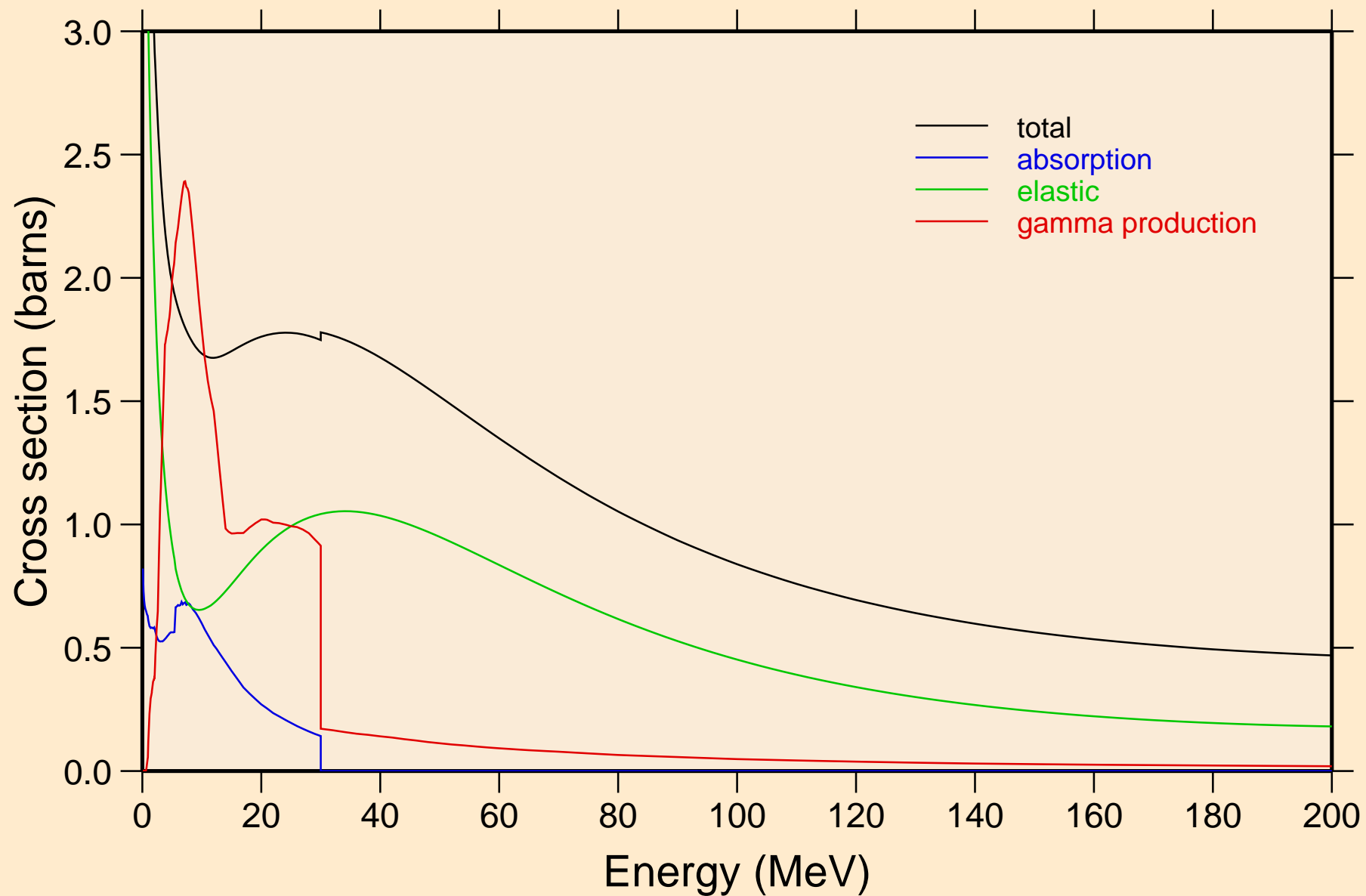
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## Non-threshold reactions

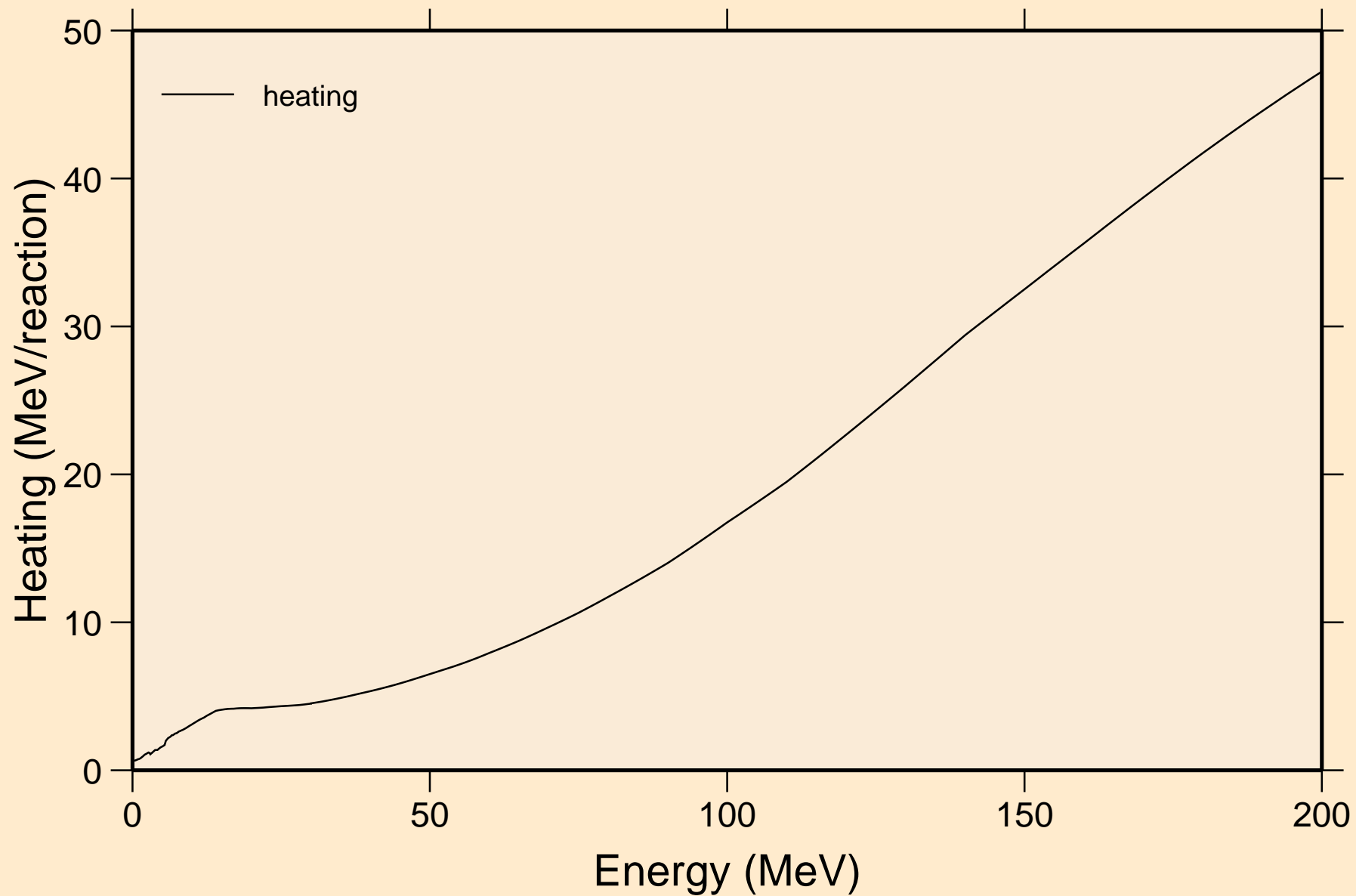


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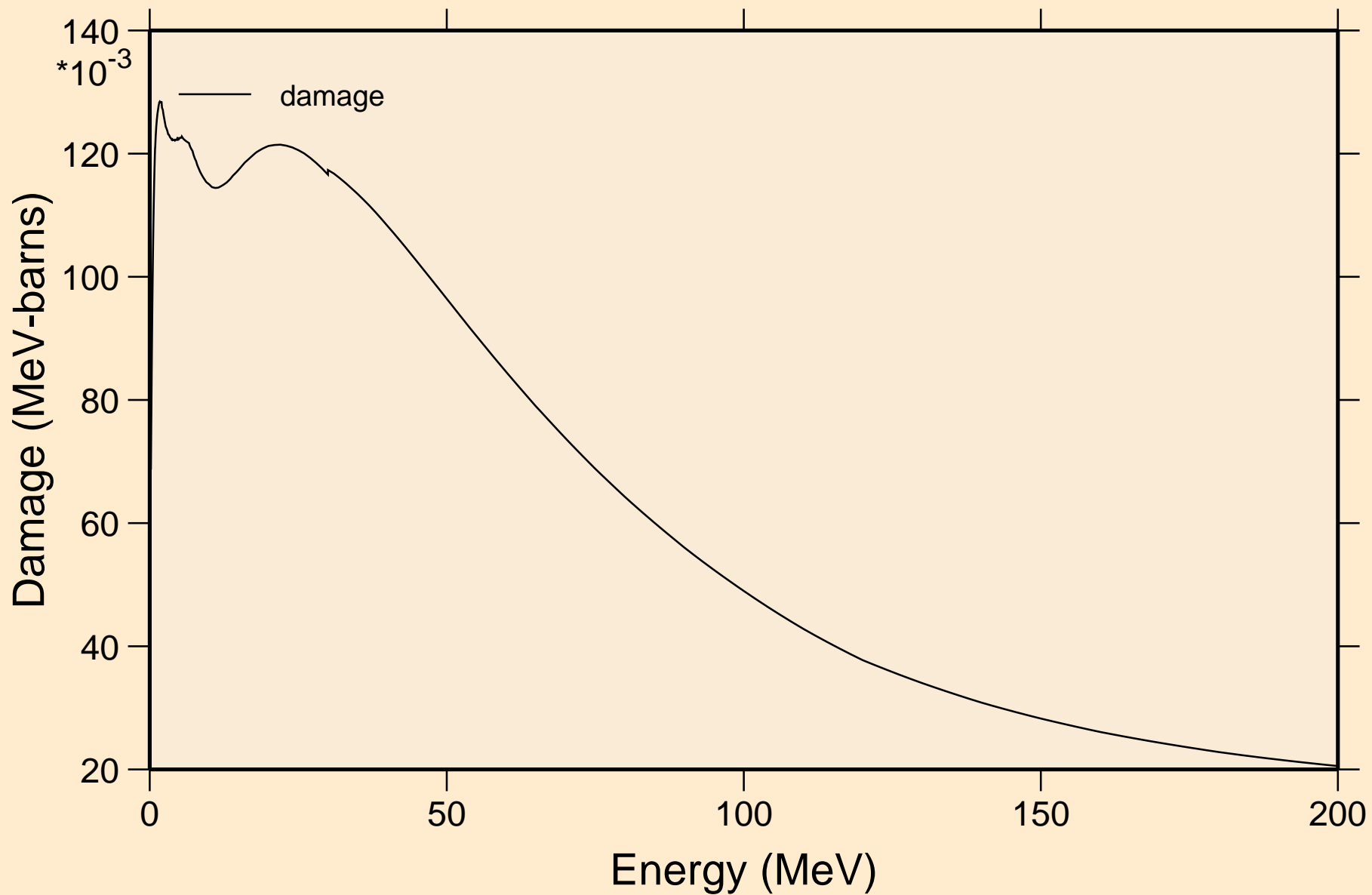
## Principal cross sections



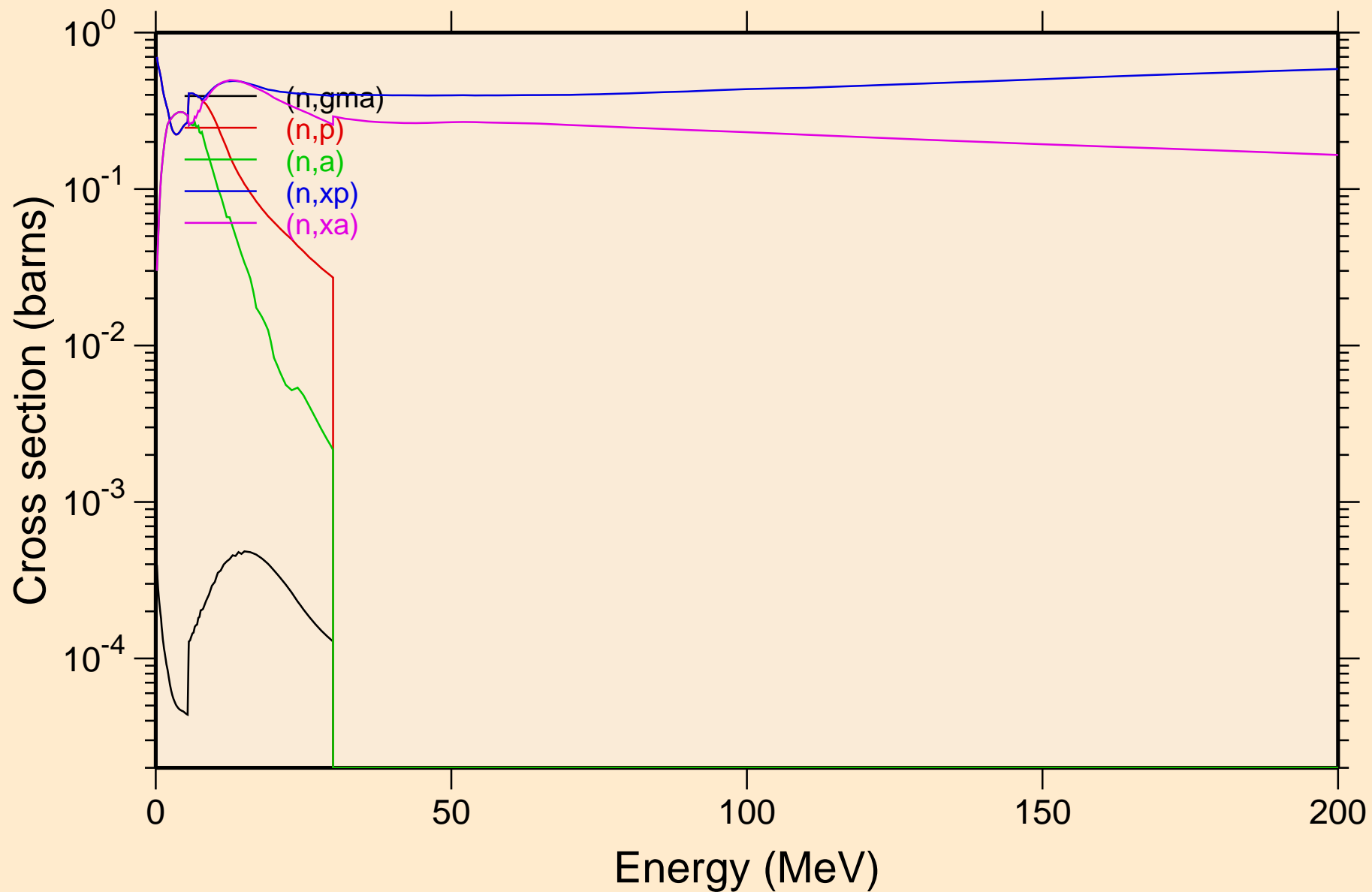
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

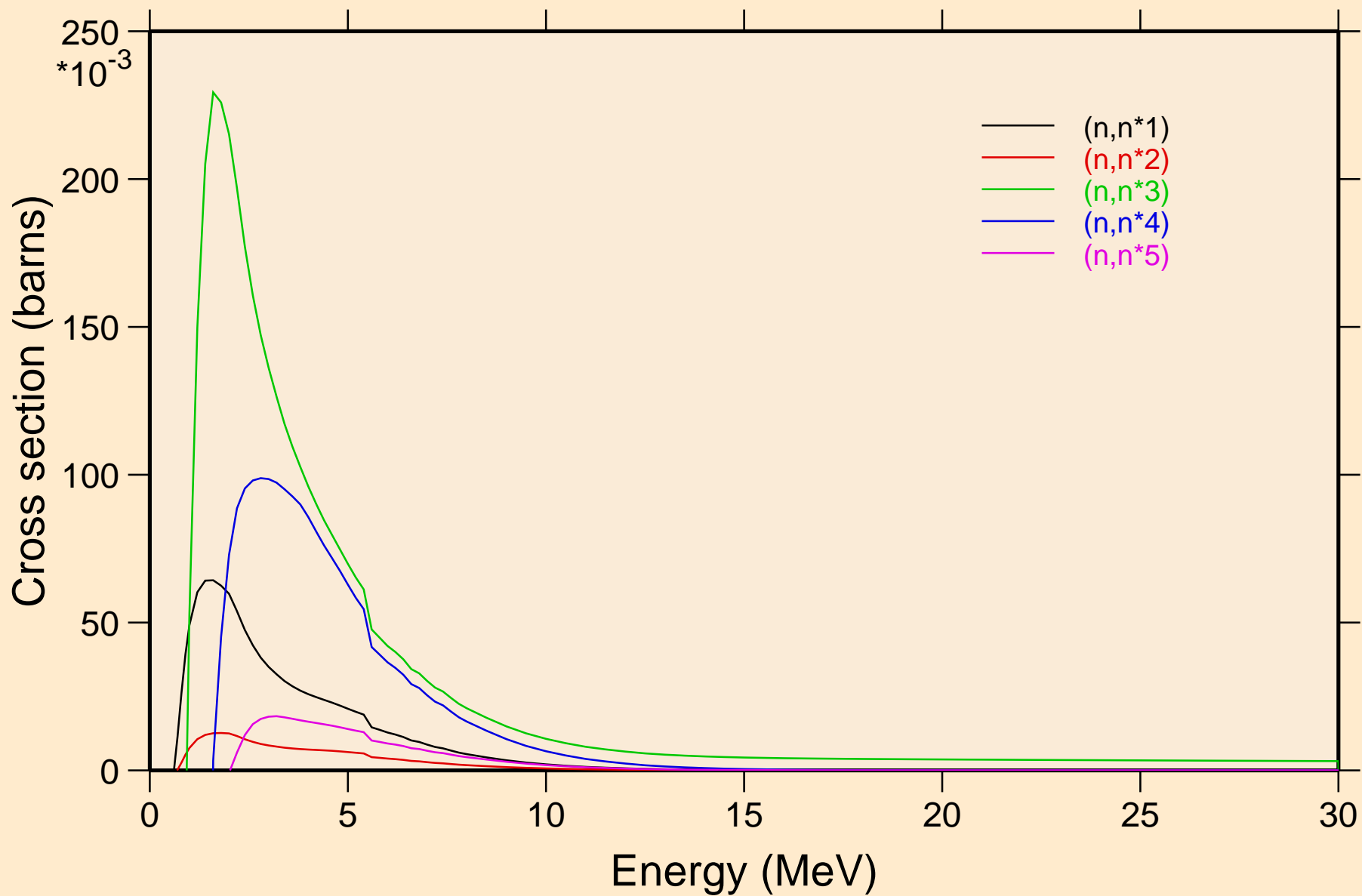


NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

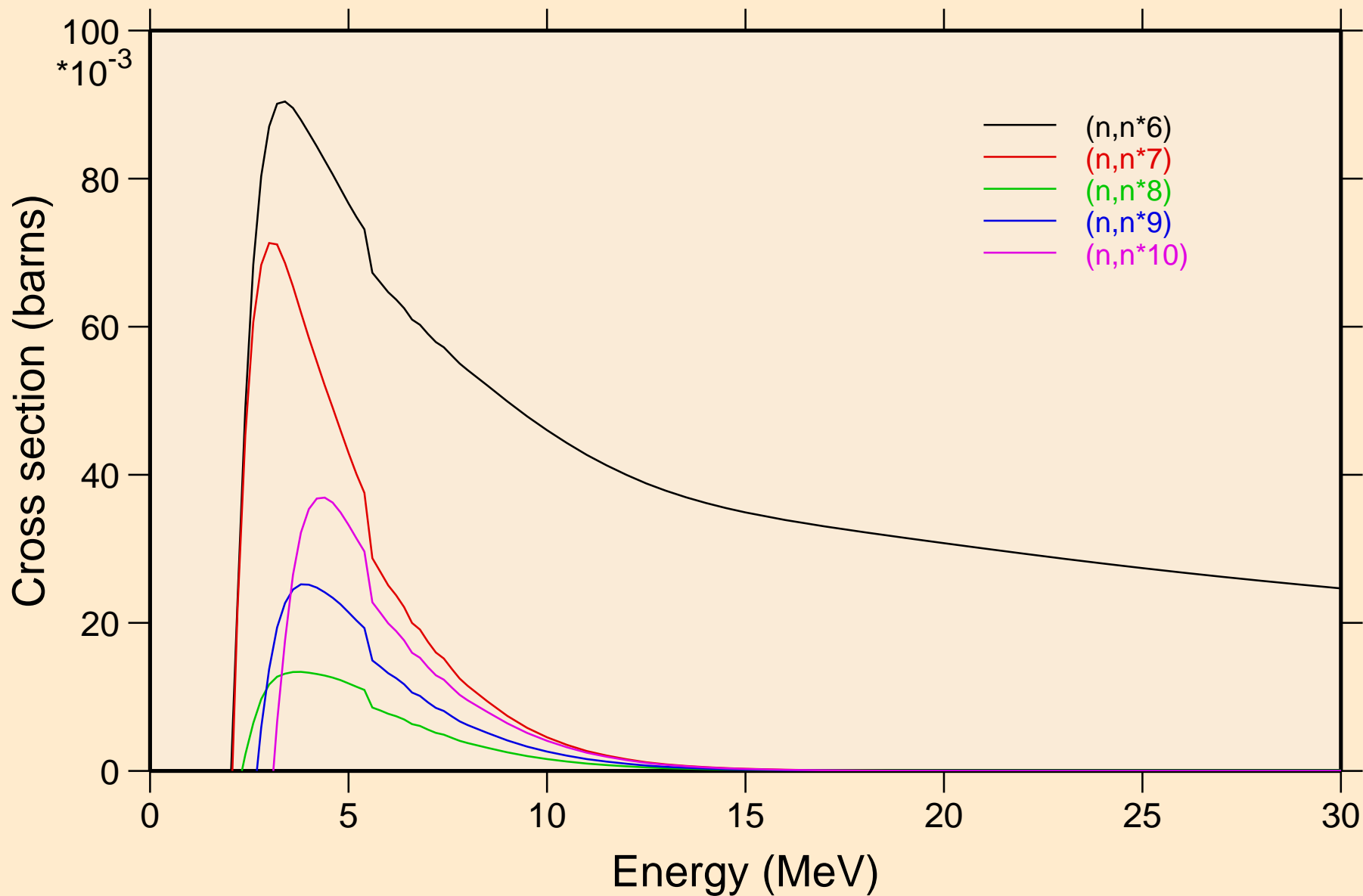




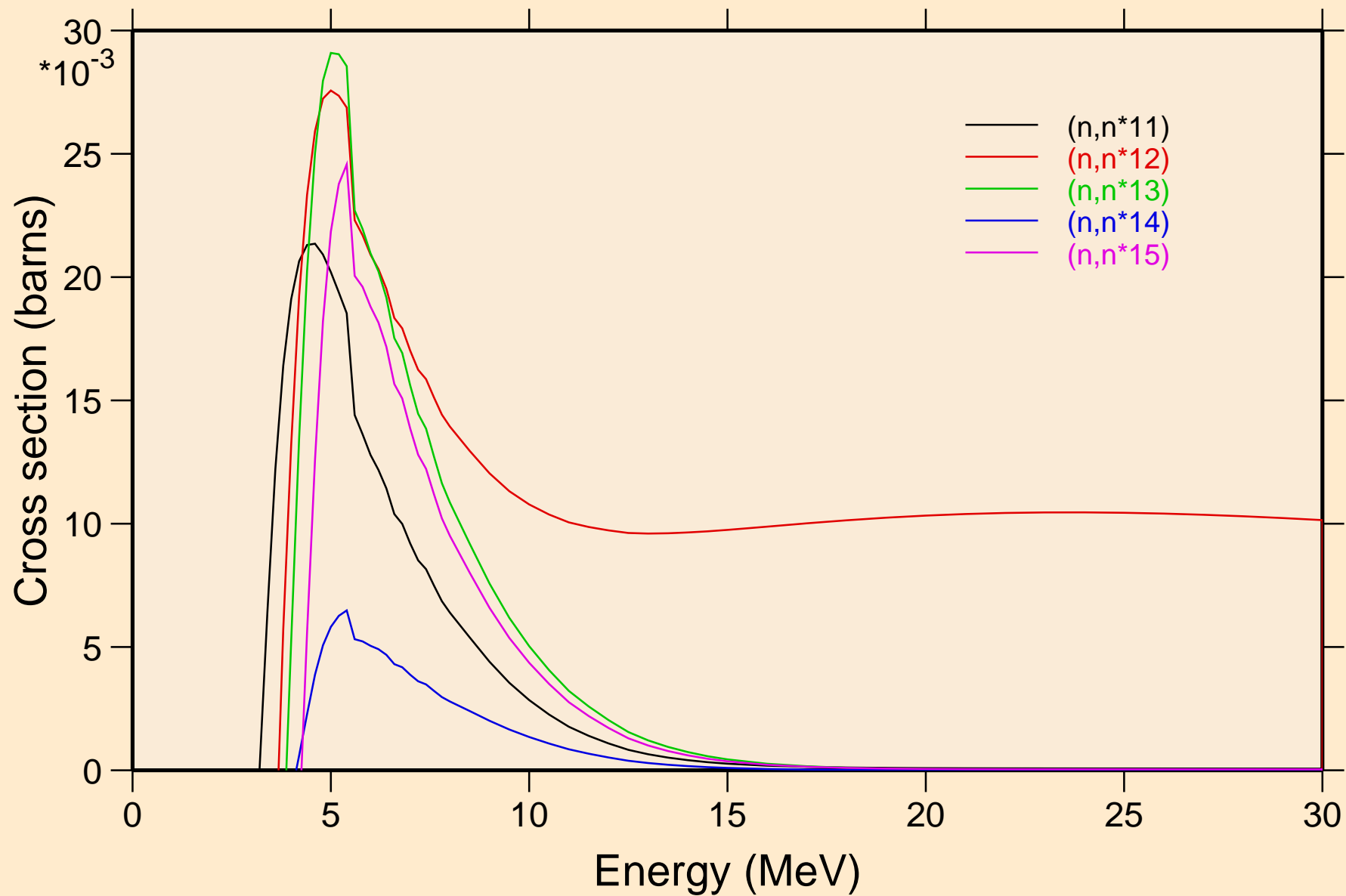
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Inelastic levels



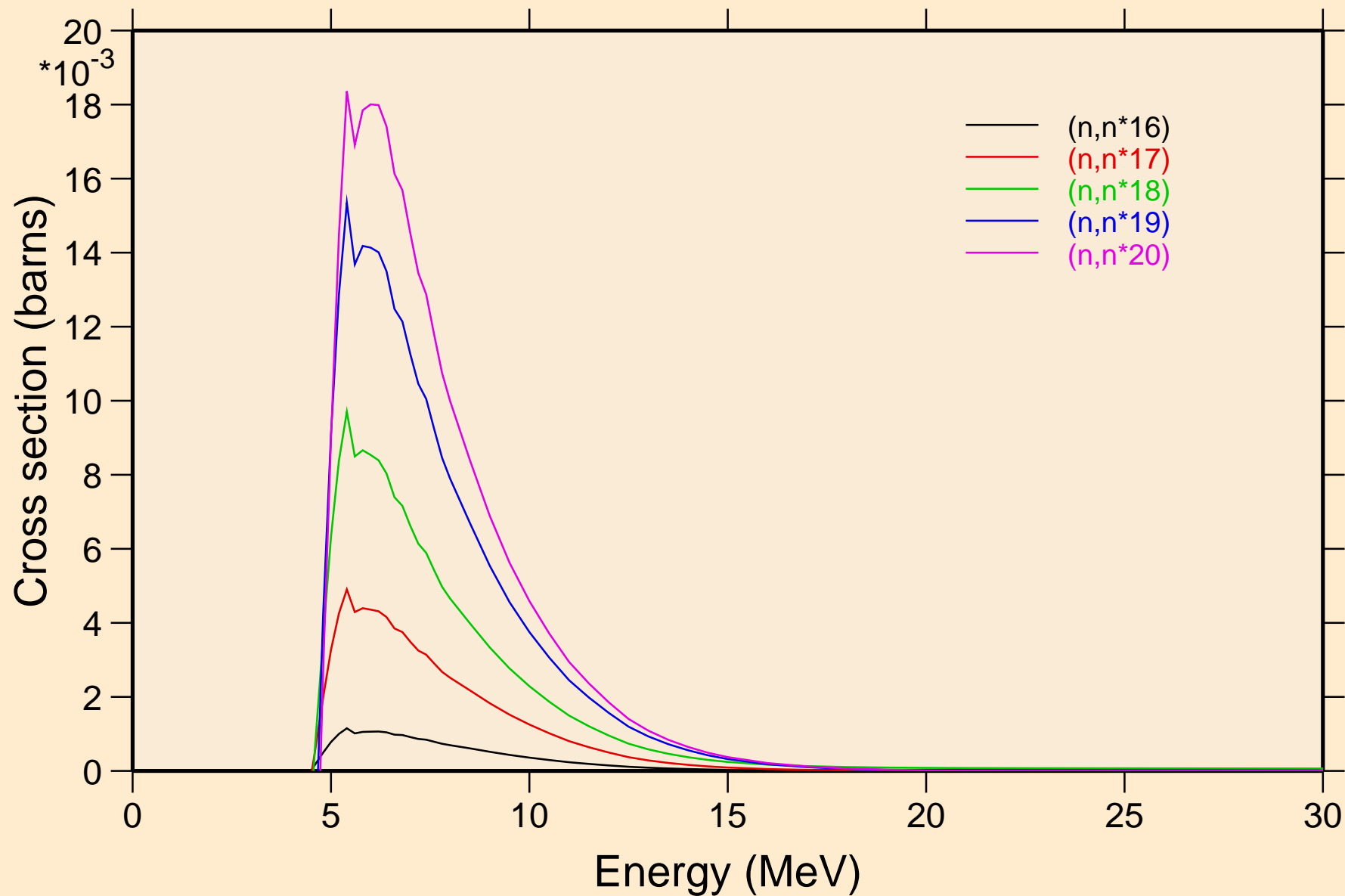
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Inelastic levels



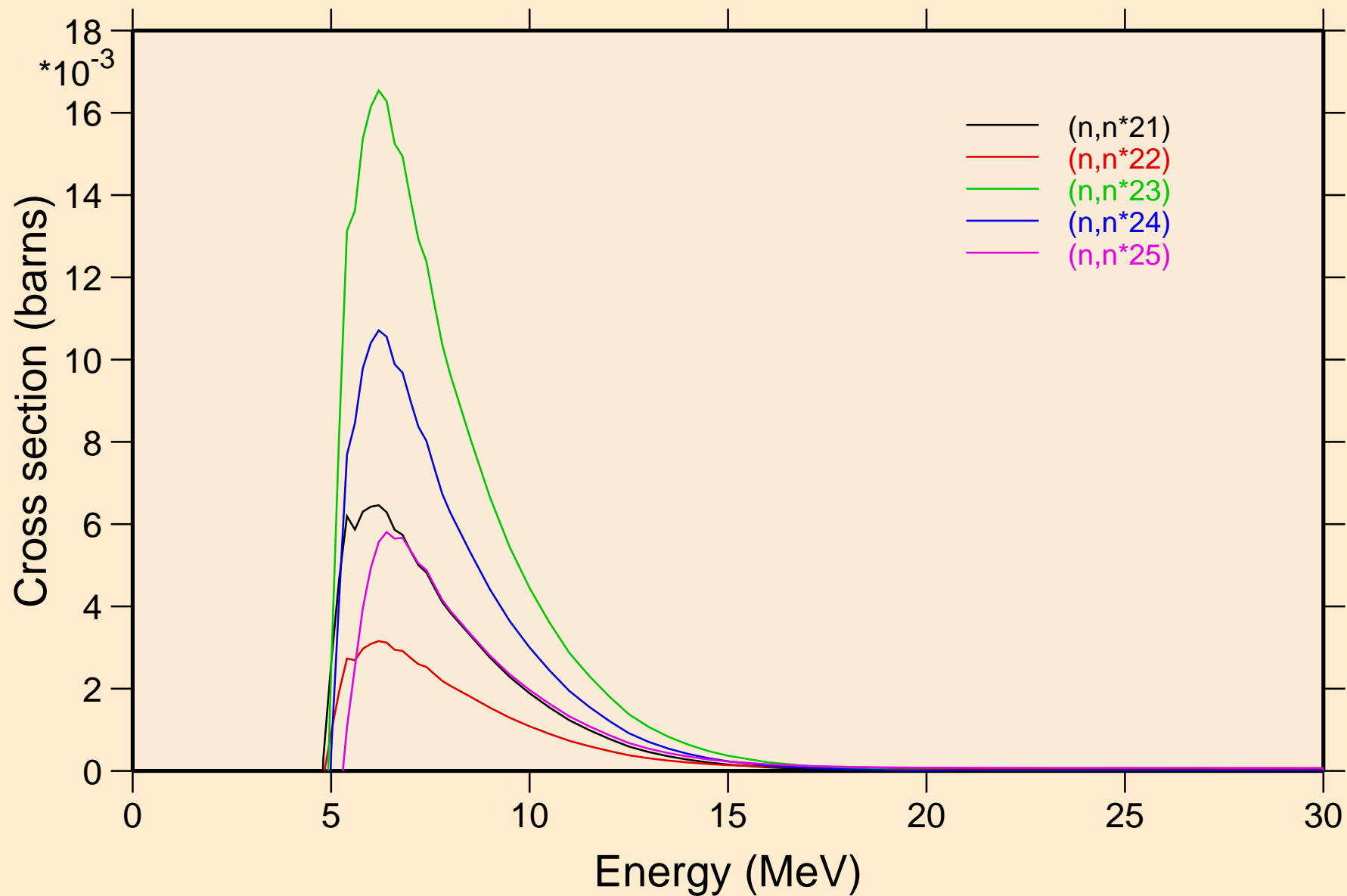
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Inelastic levels



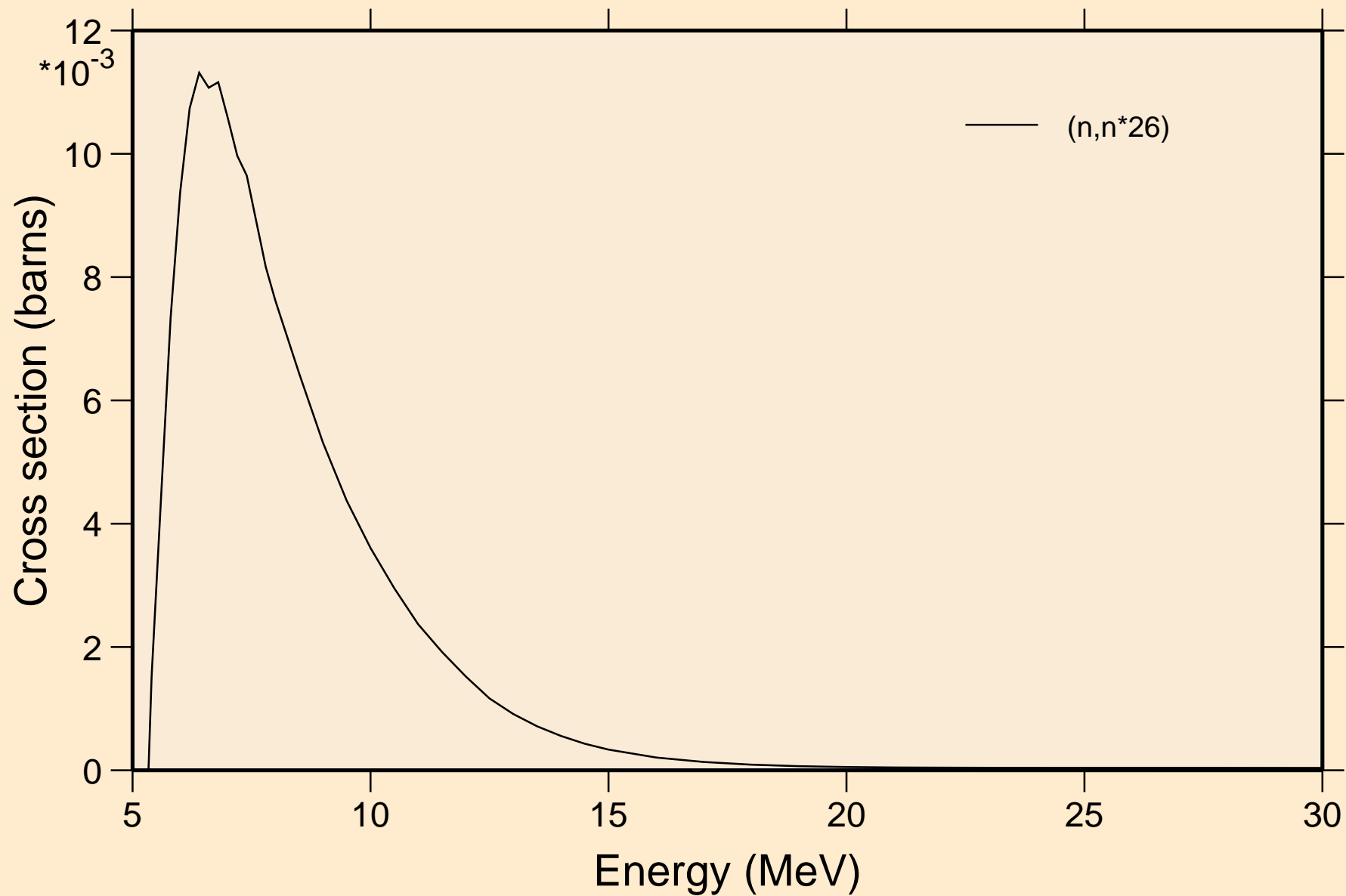
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Inelastic levels



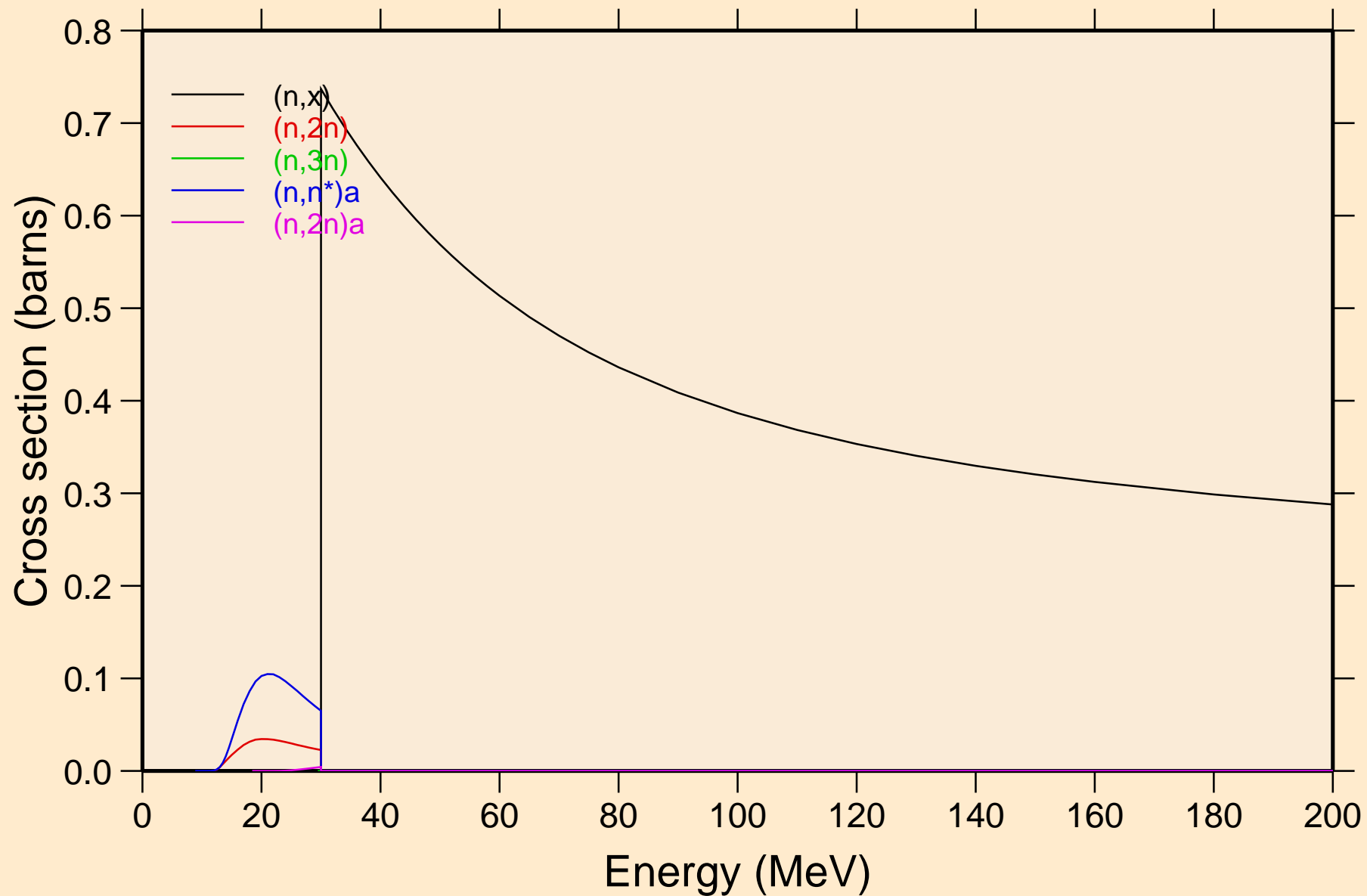
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Inelastic levels



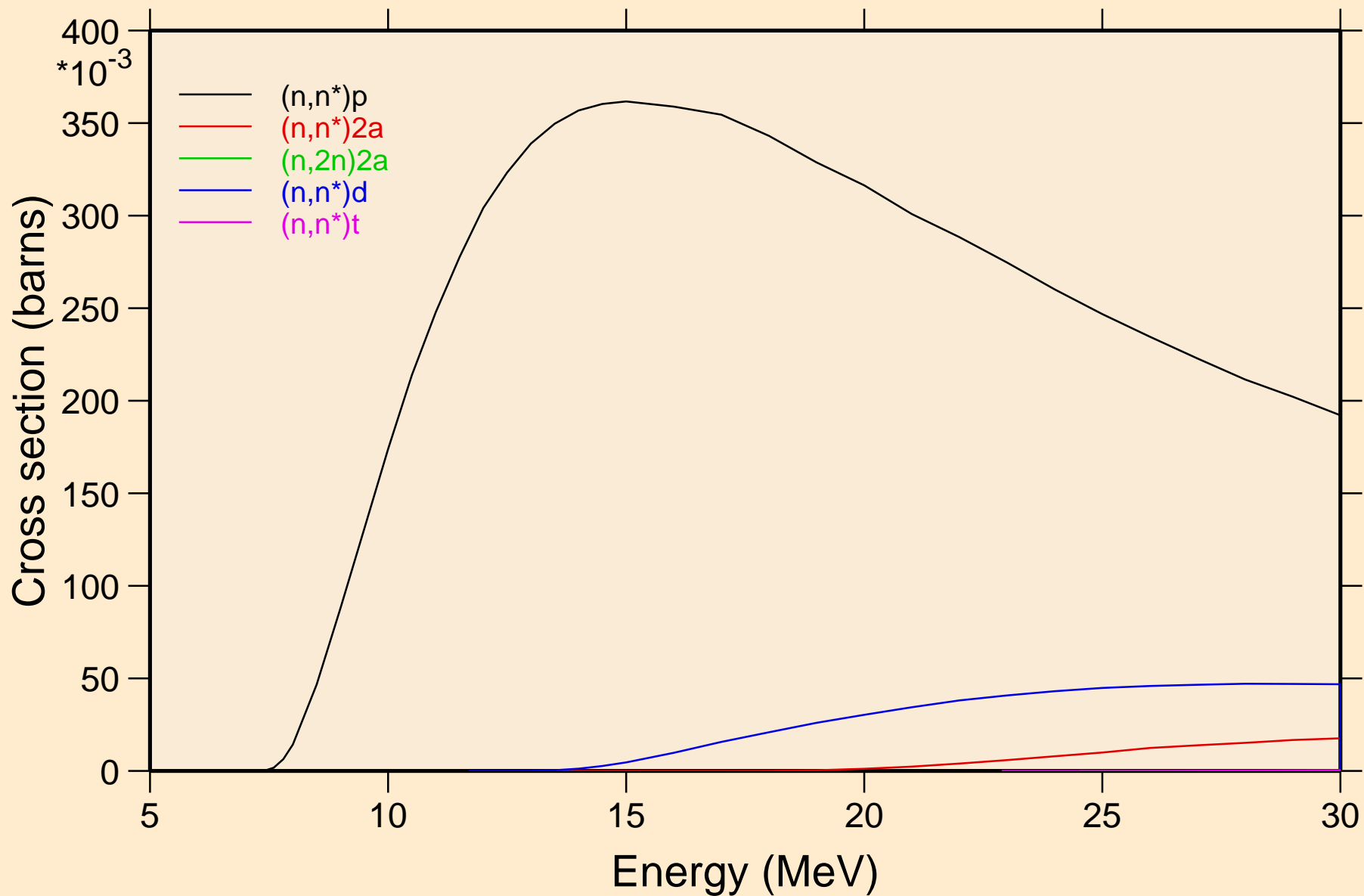
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Inelastic levels



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



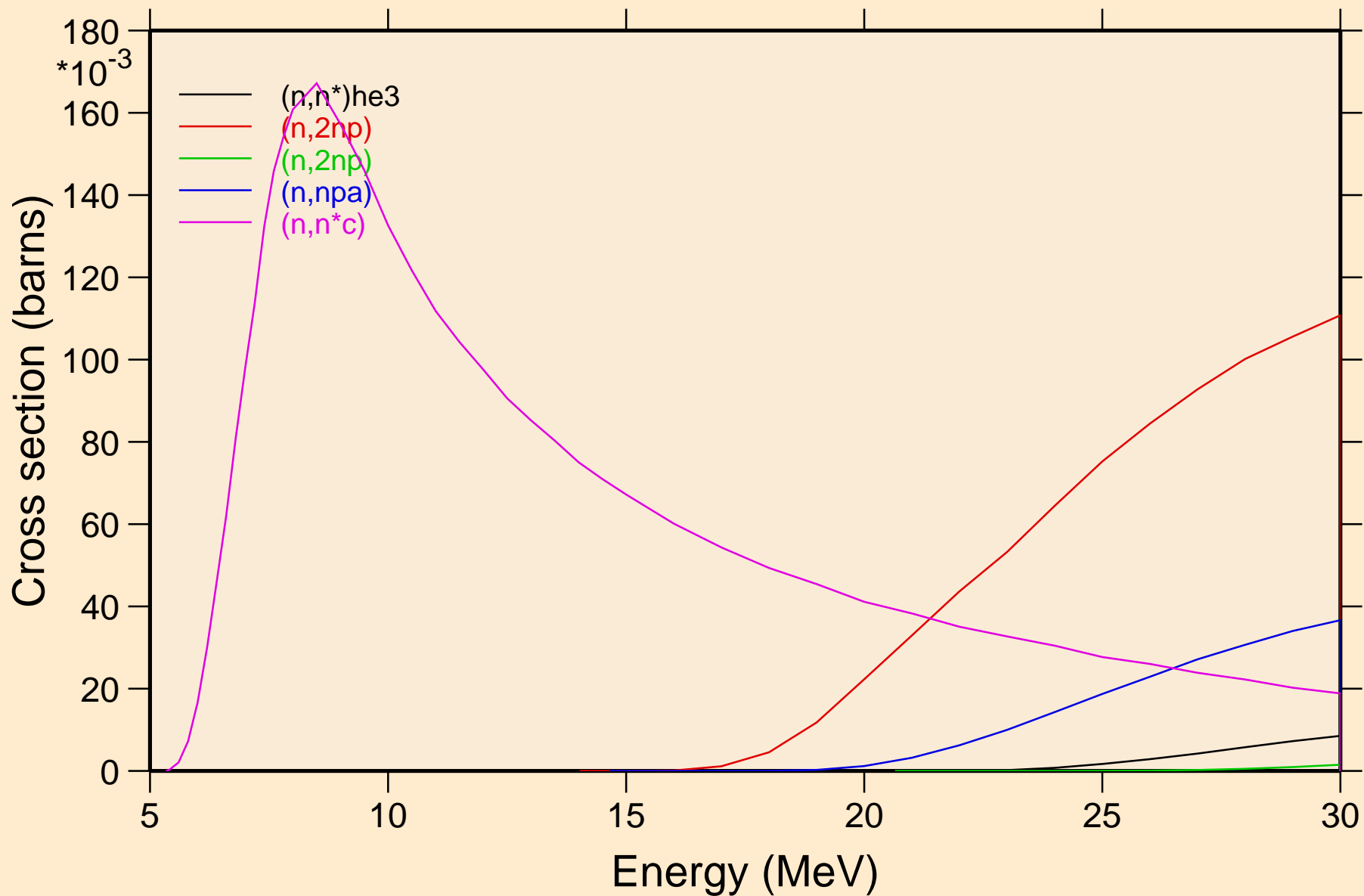
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



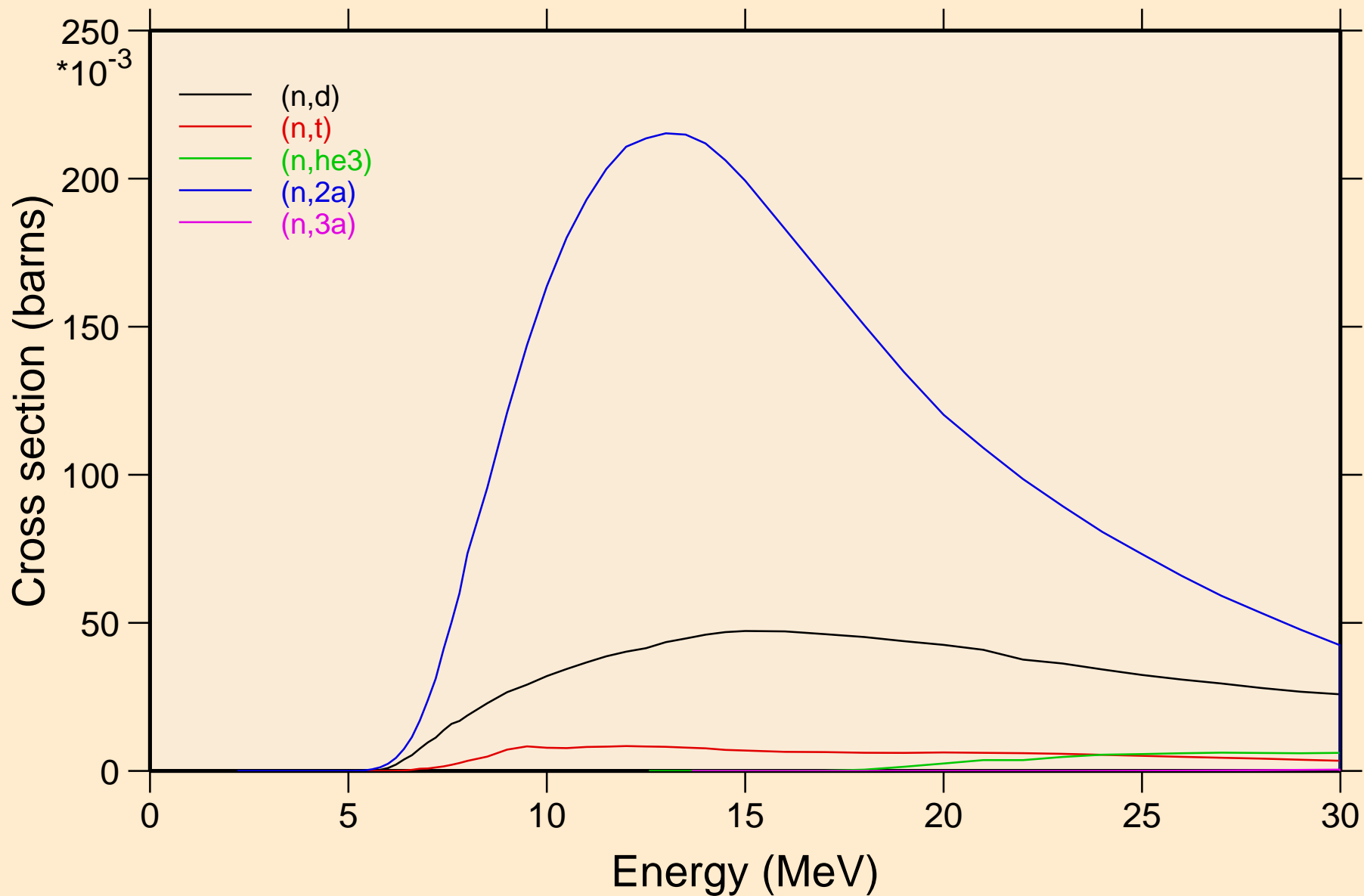


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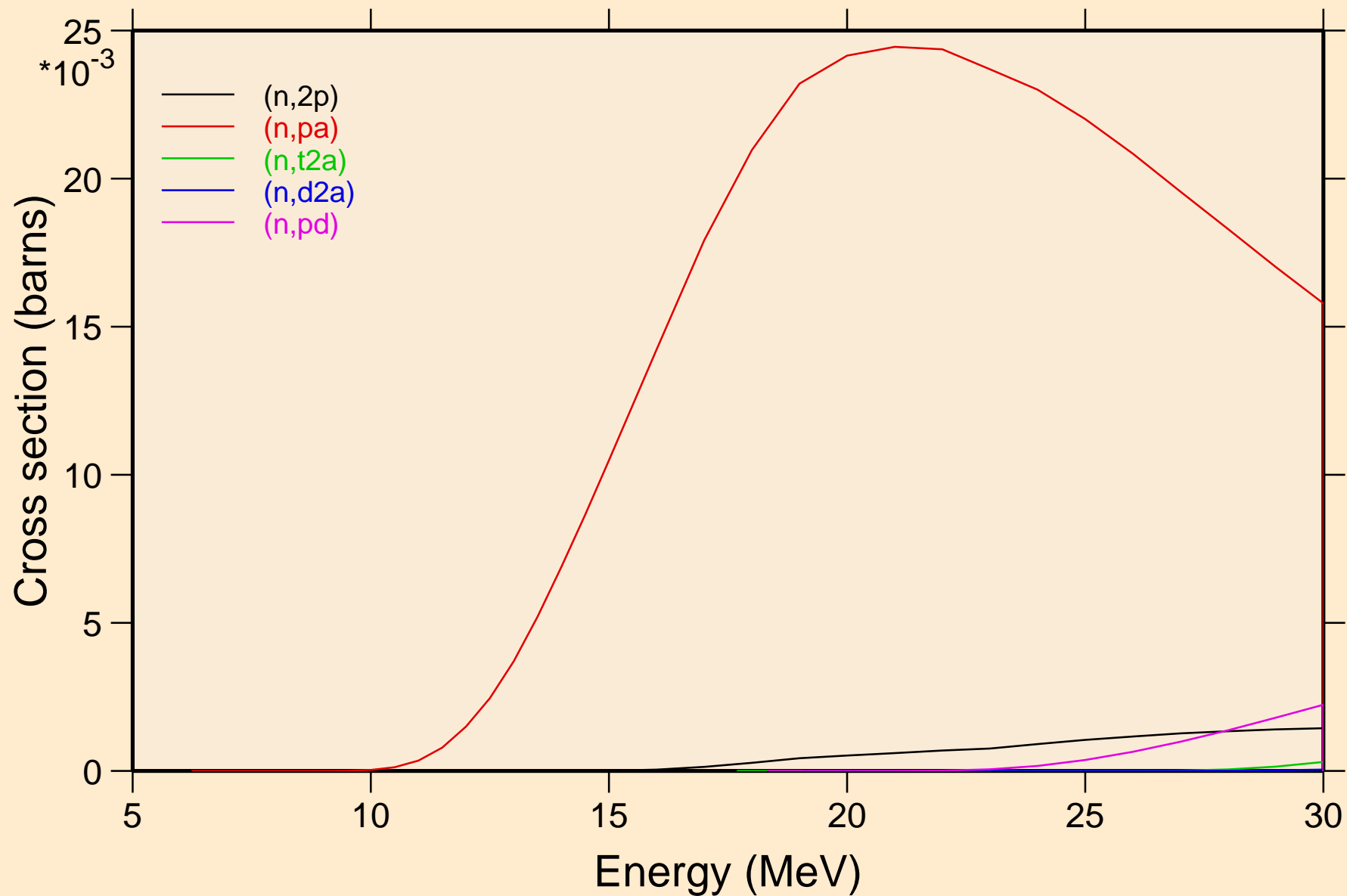
## Threshold reactions



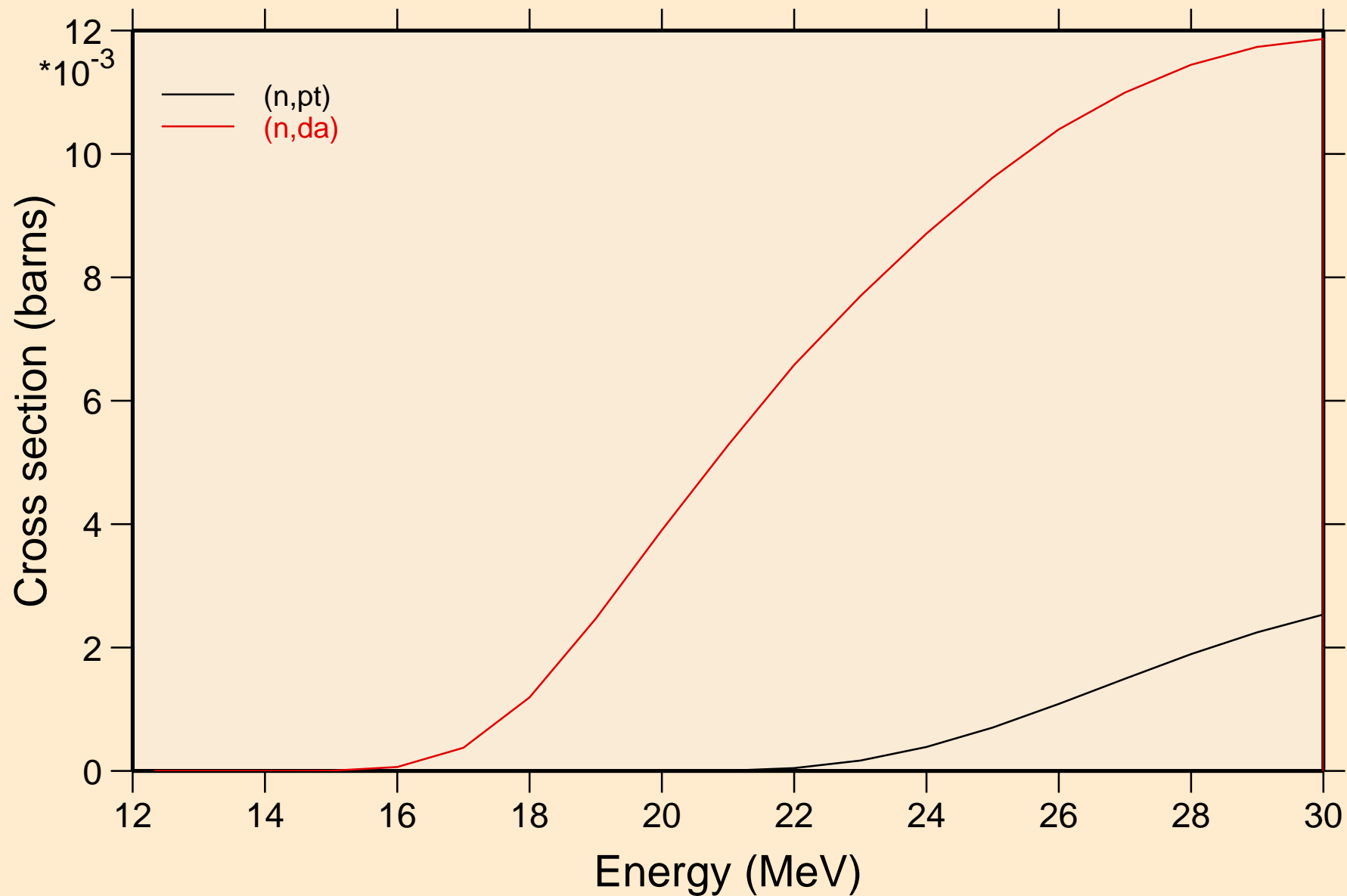
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

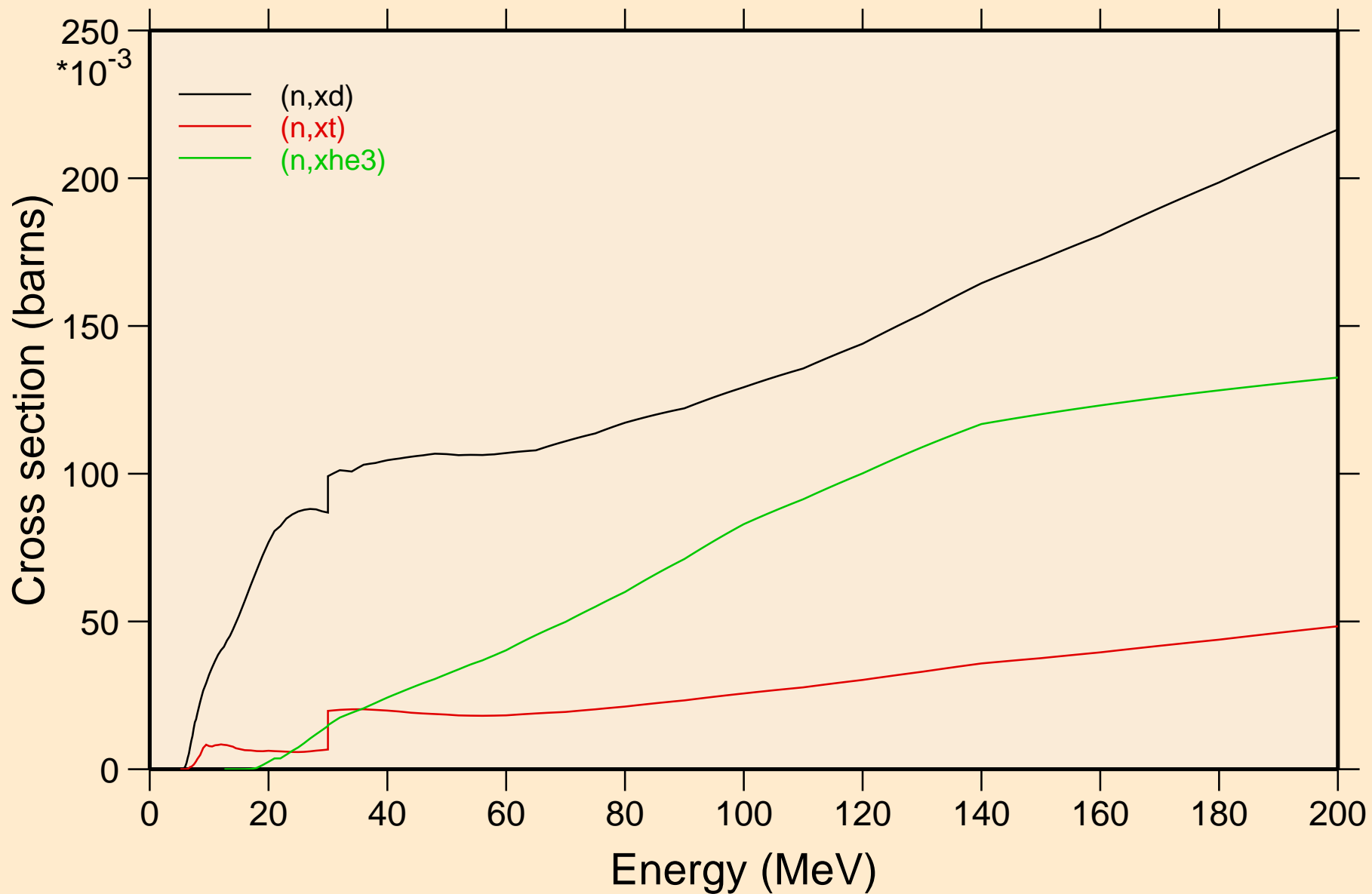


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Threshold reactions

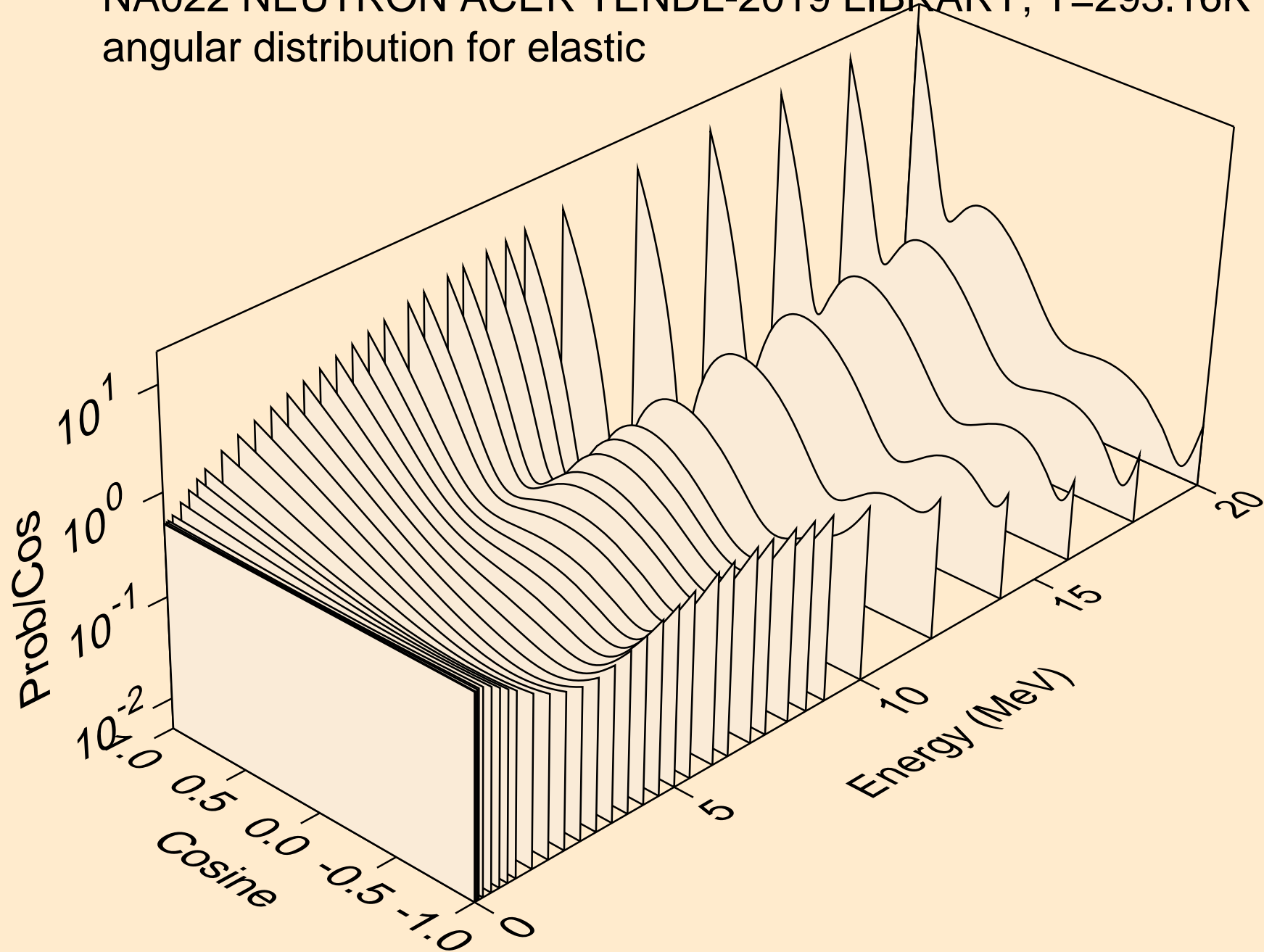


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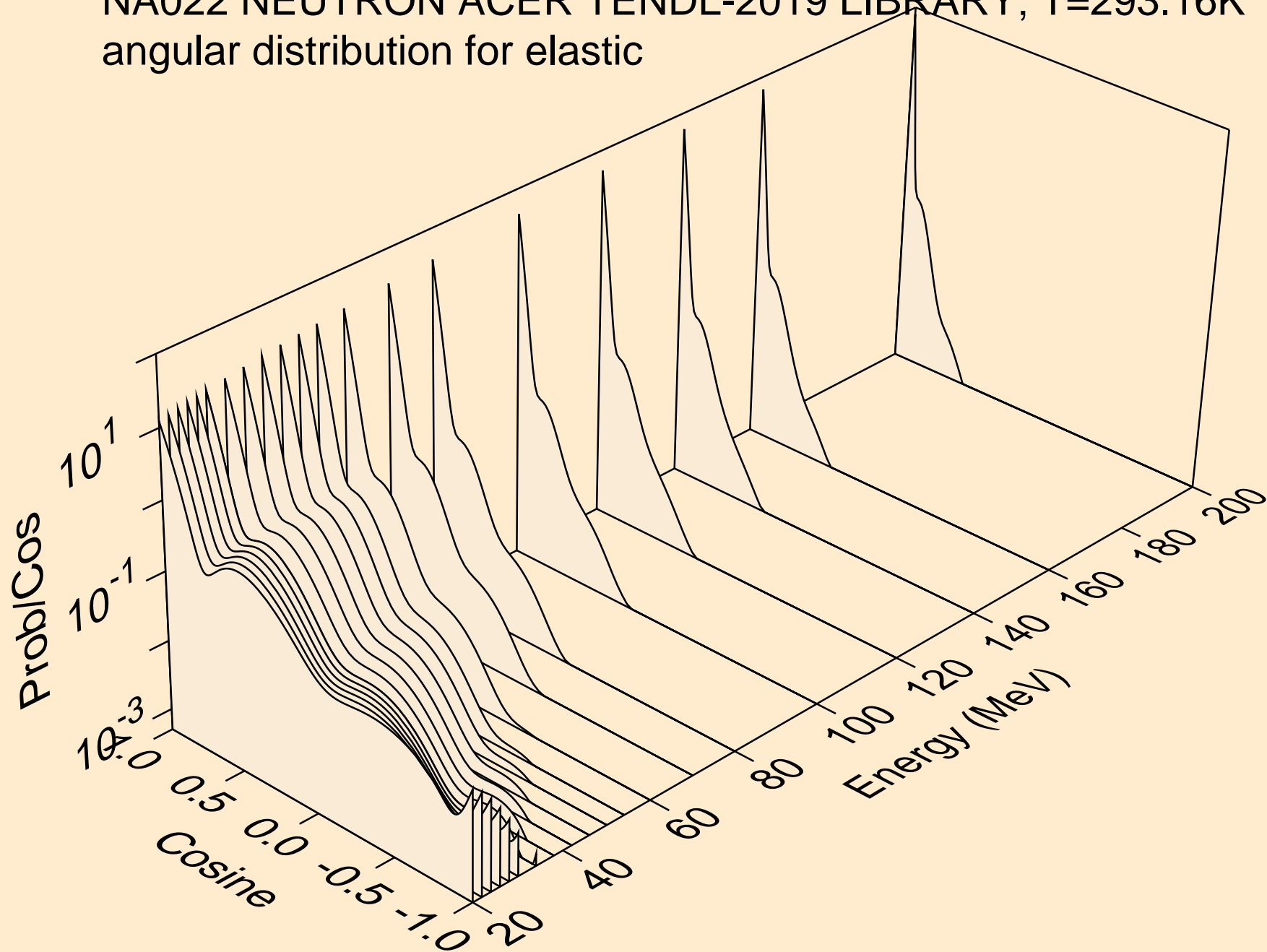
## Threshold reactions



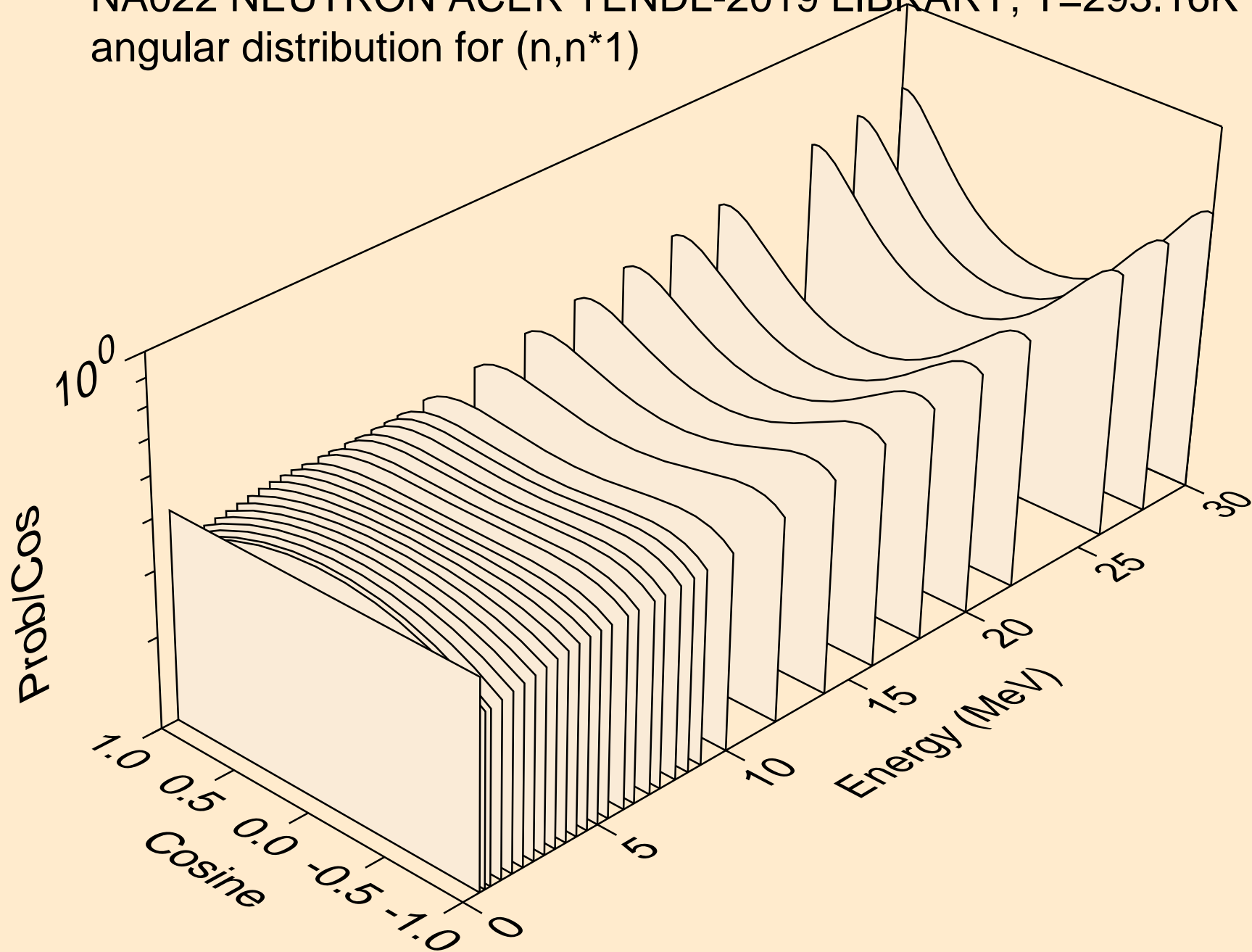
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angular distribution for elastic



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

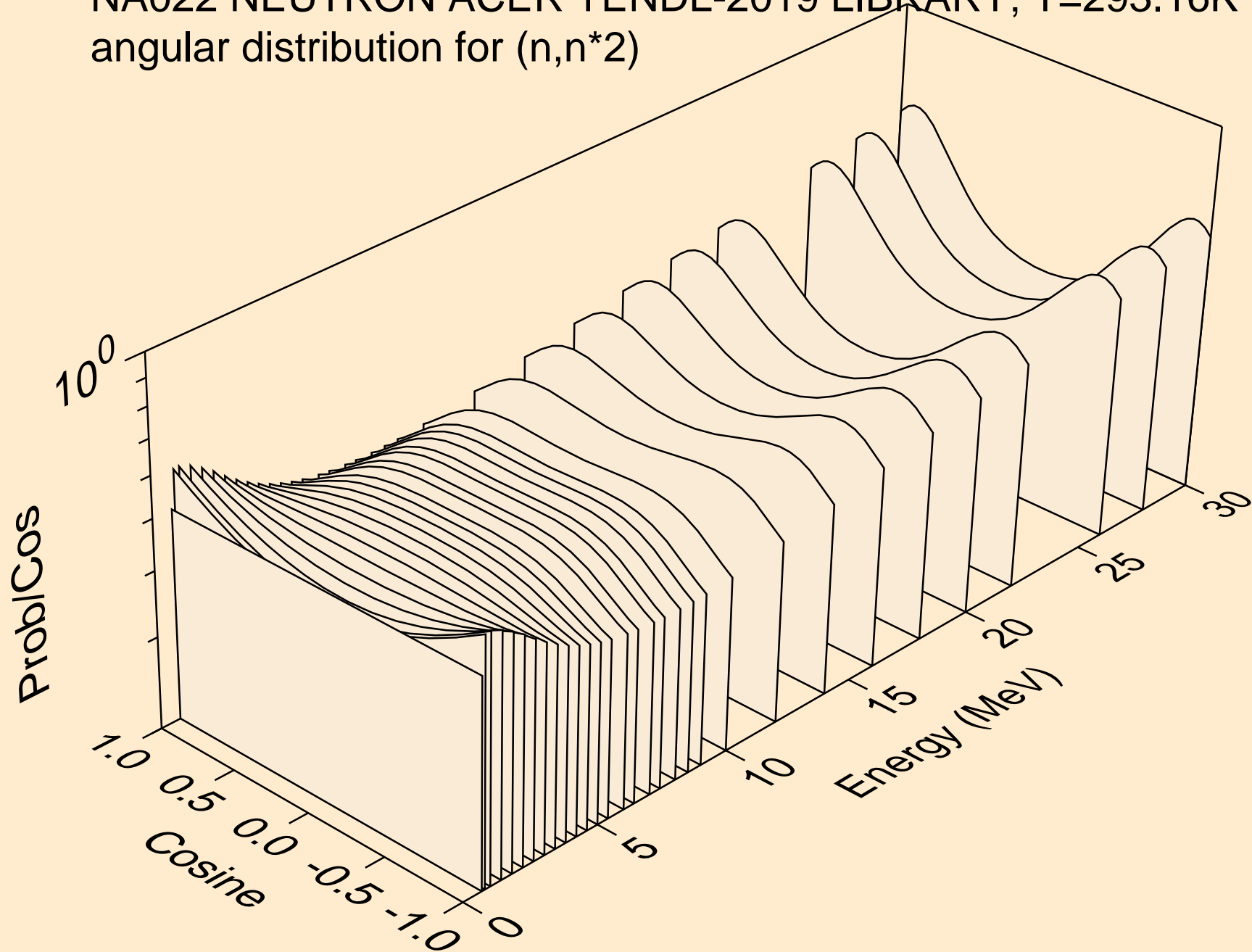


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angular distribution for (n,n\*1)

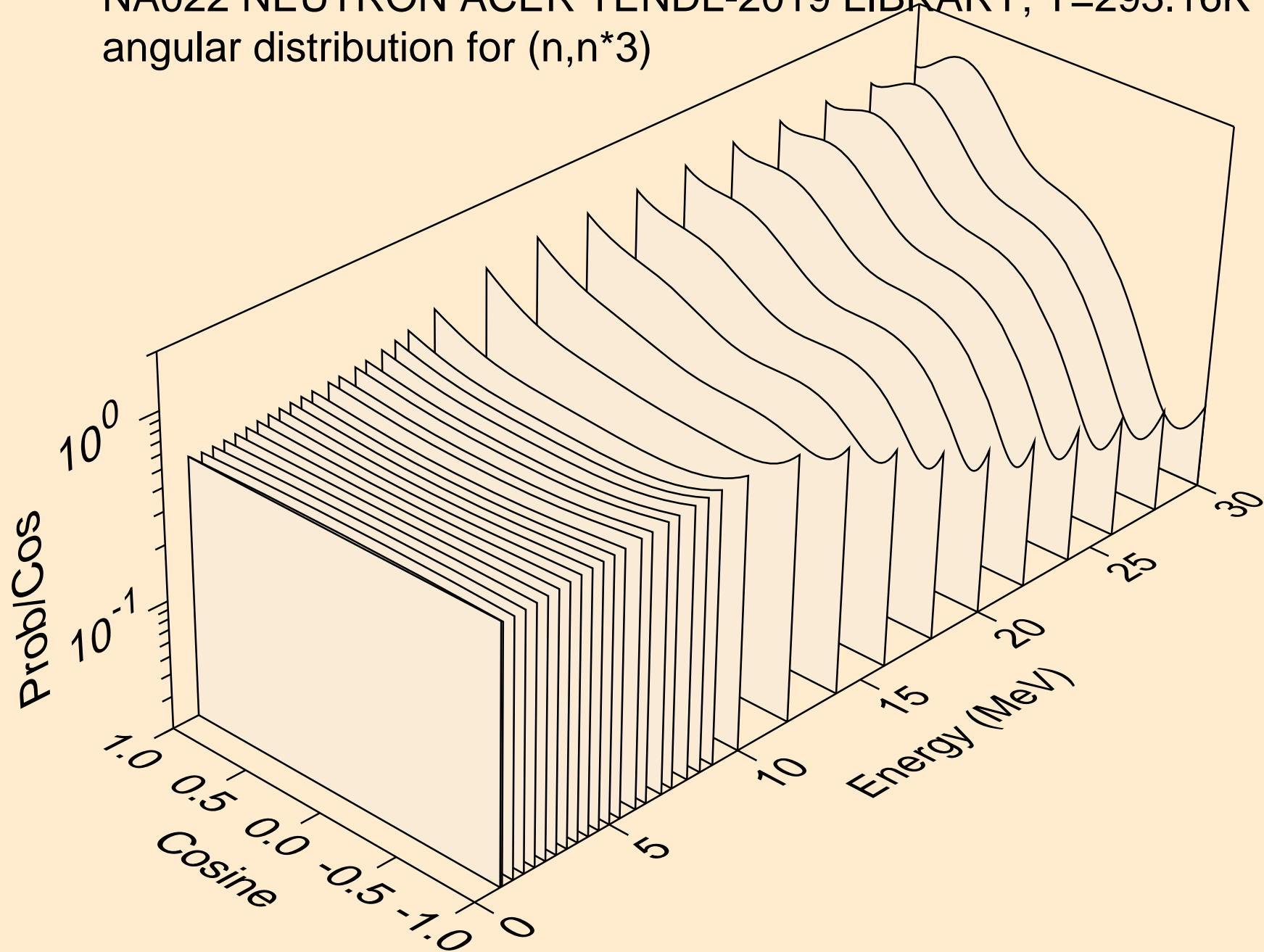




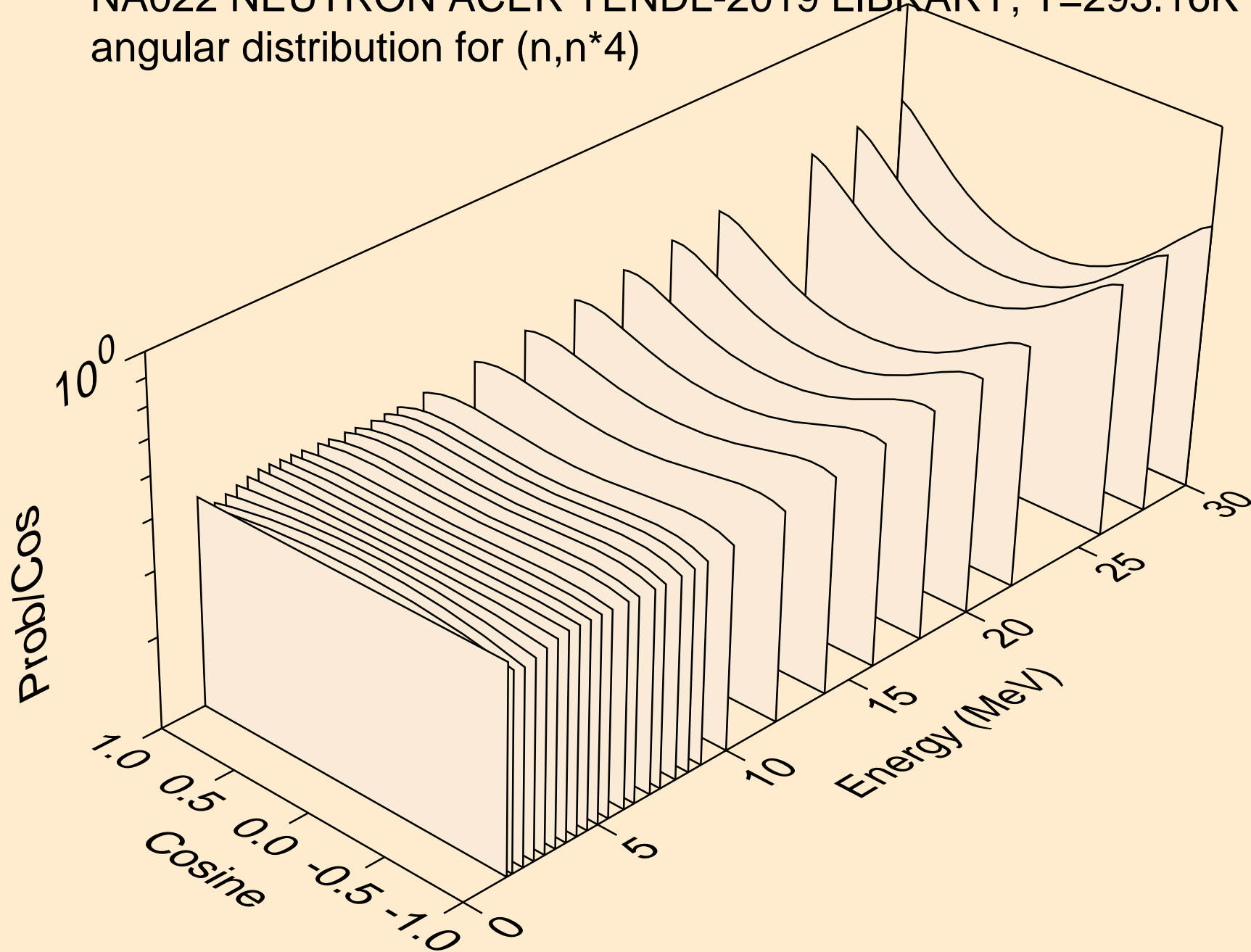
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angular distribution for (n,n\*2)



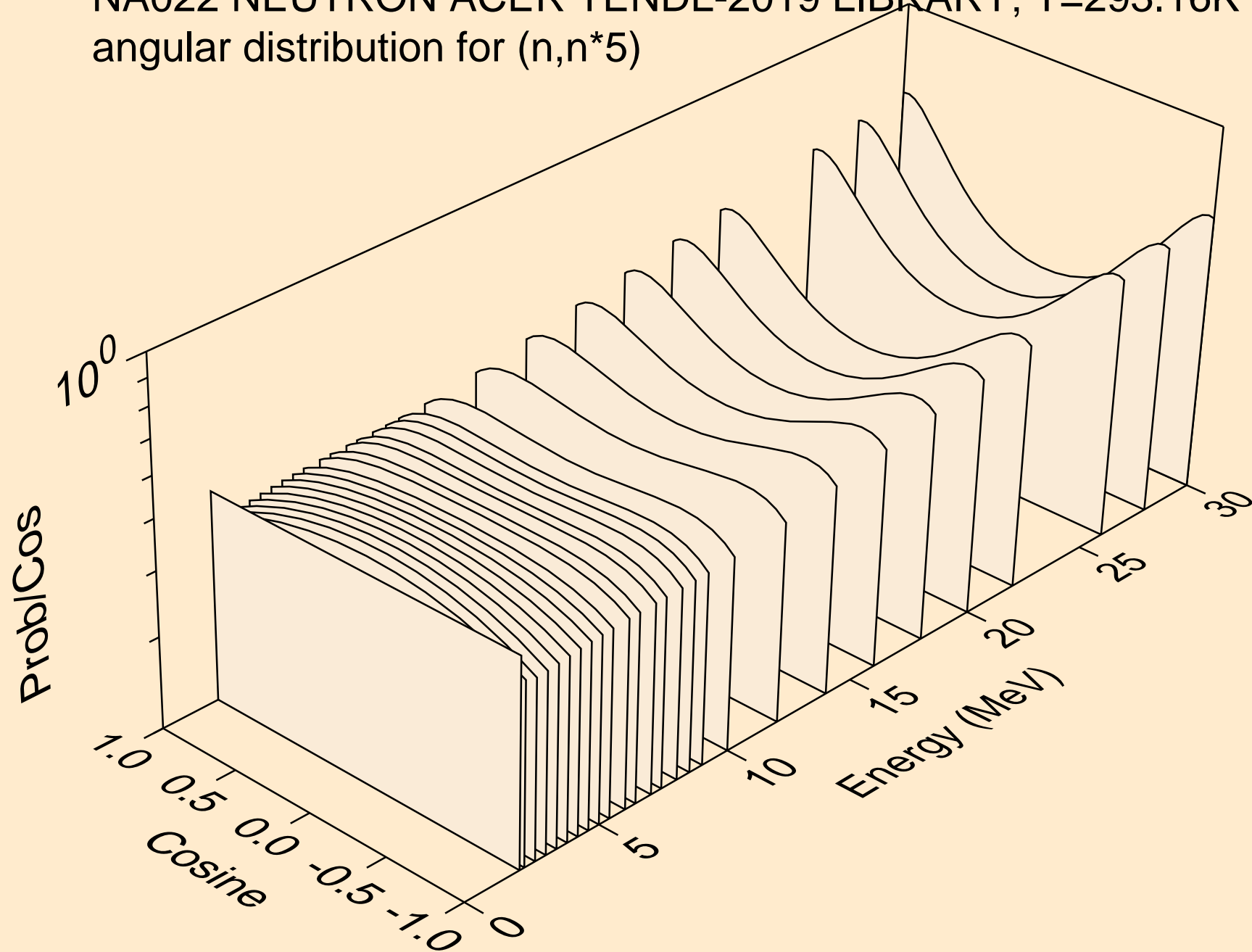
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angular distribution for (n,n\*3)



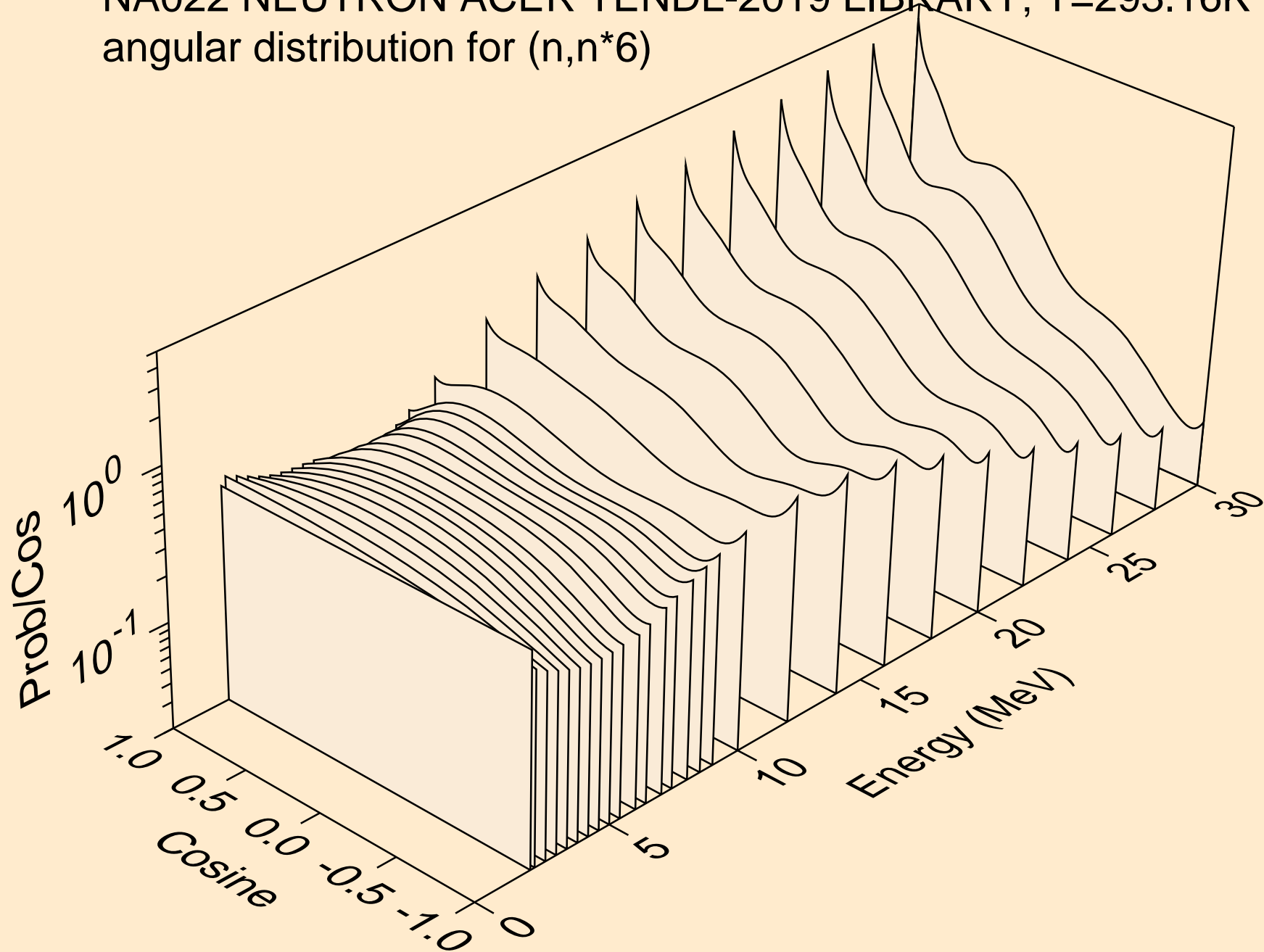
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angular distribution for (n,n\*4)



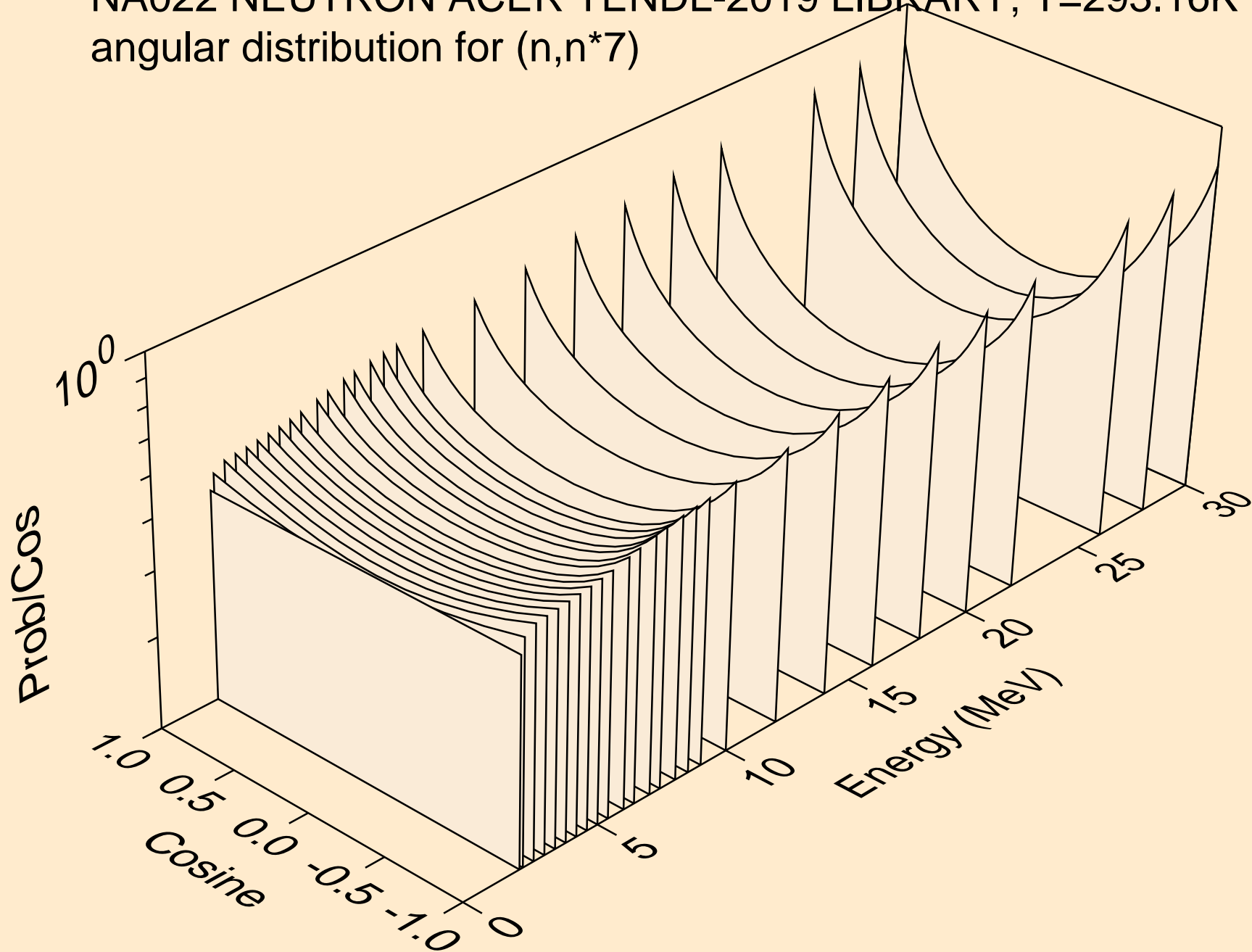
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angular distribution for (n,n\*5)



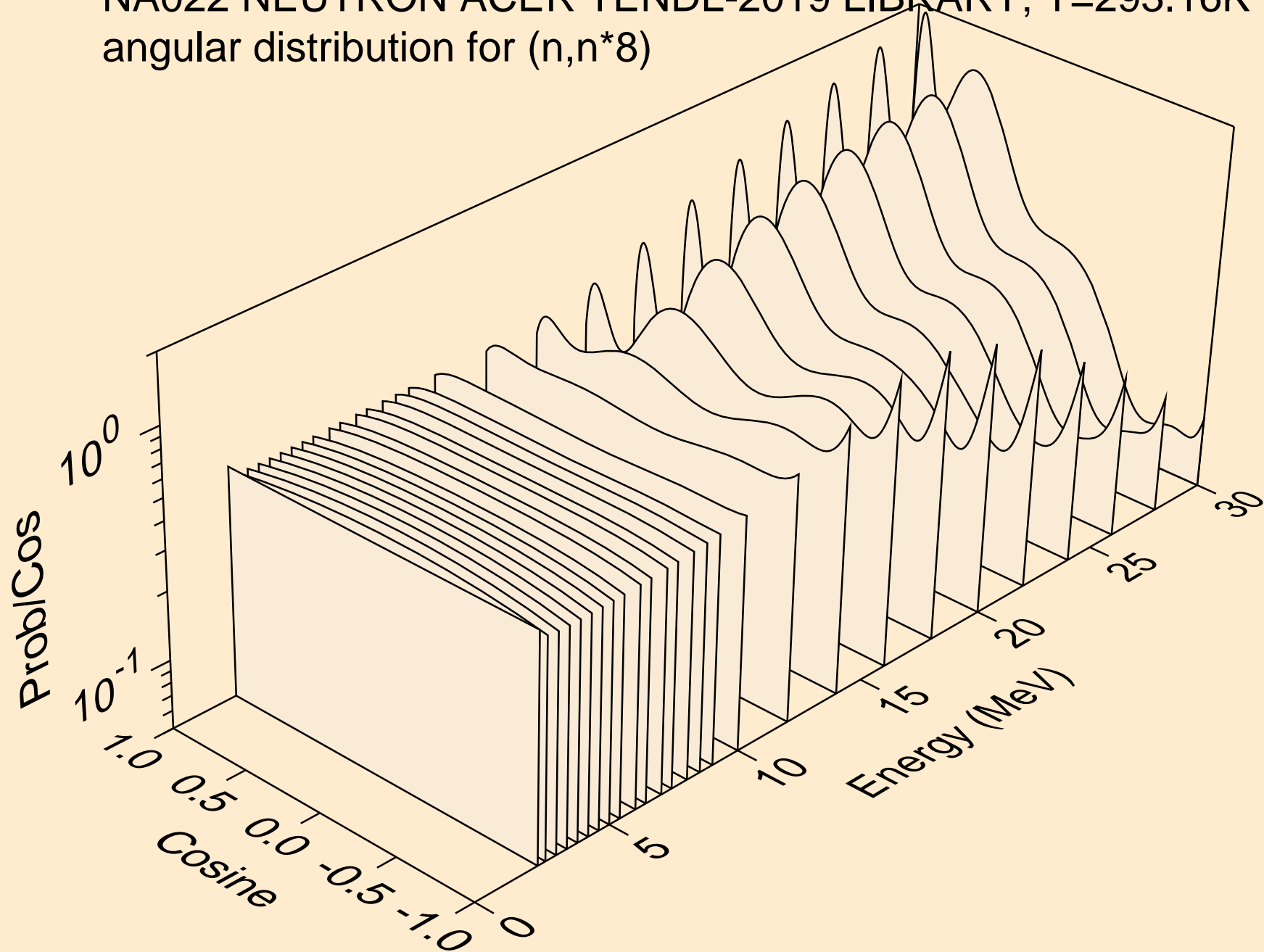
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angular distribution for (n,n\*6)



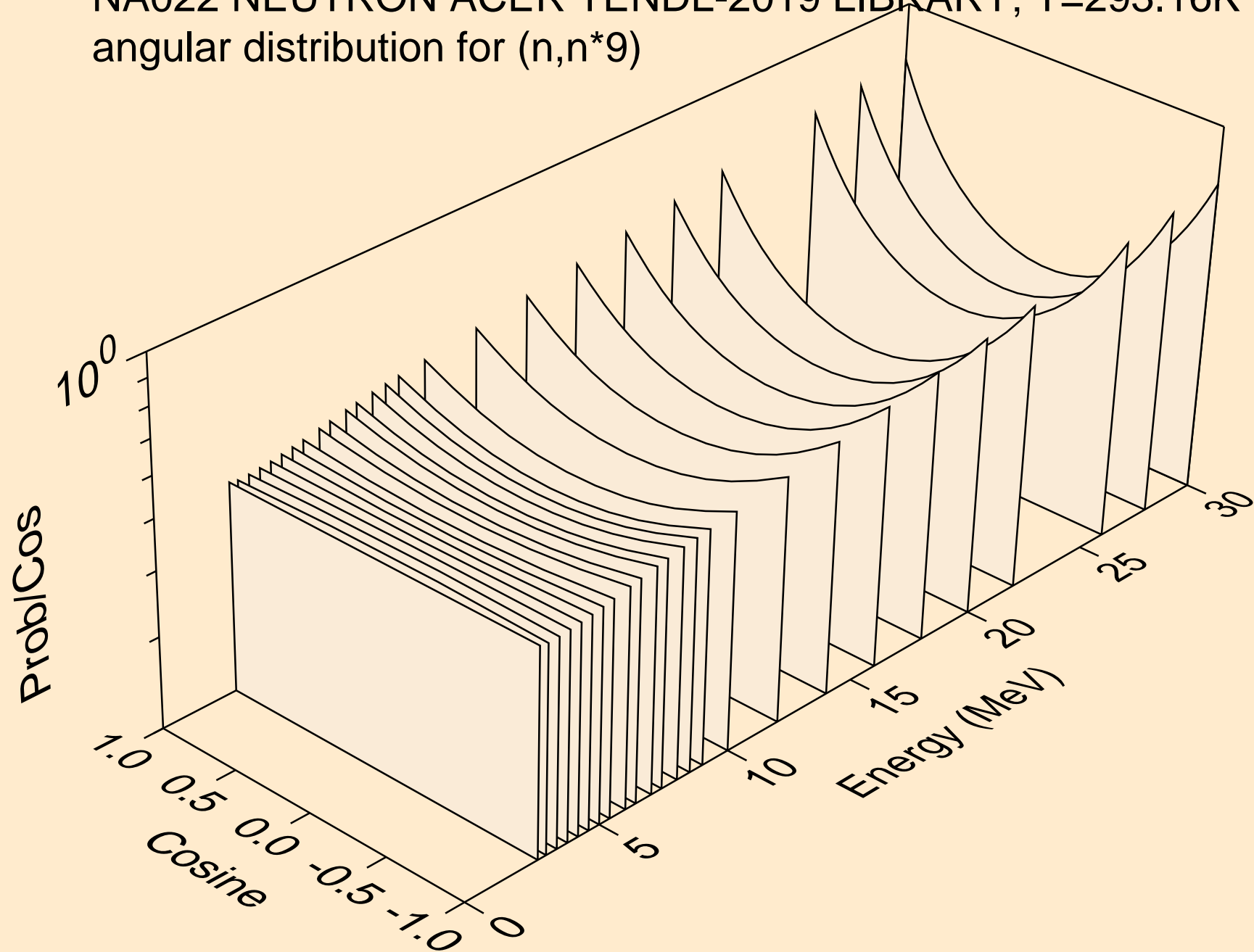
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angular distribution for (n,n\*7)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

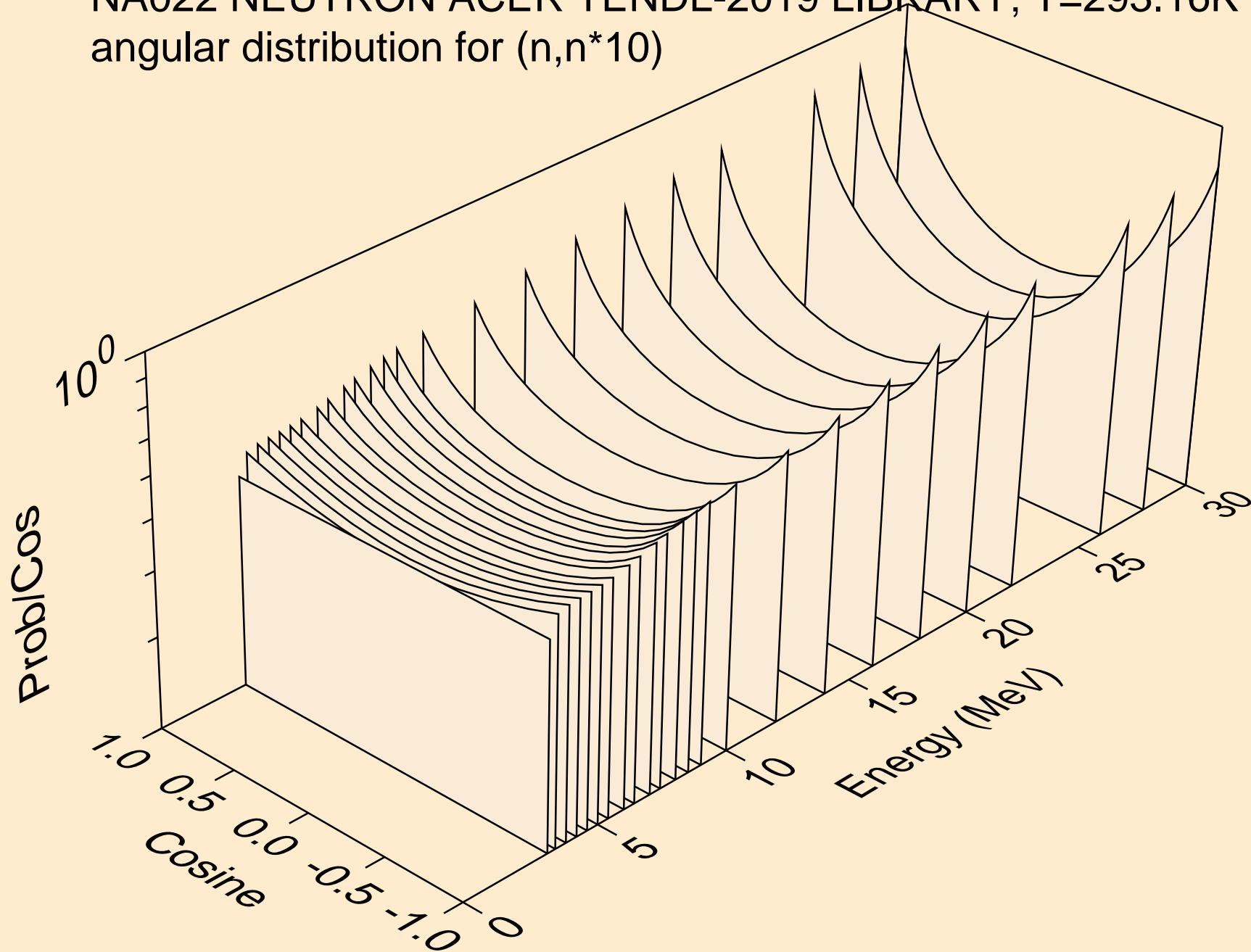


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angular distribution for (n,n\*9)

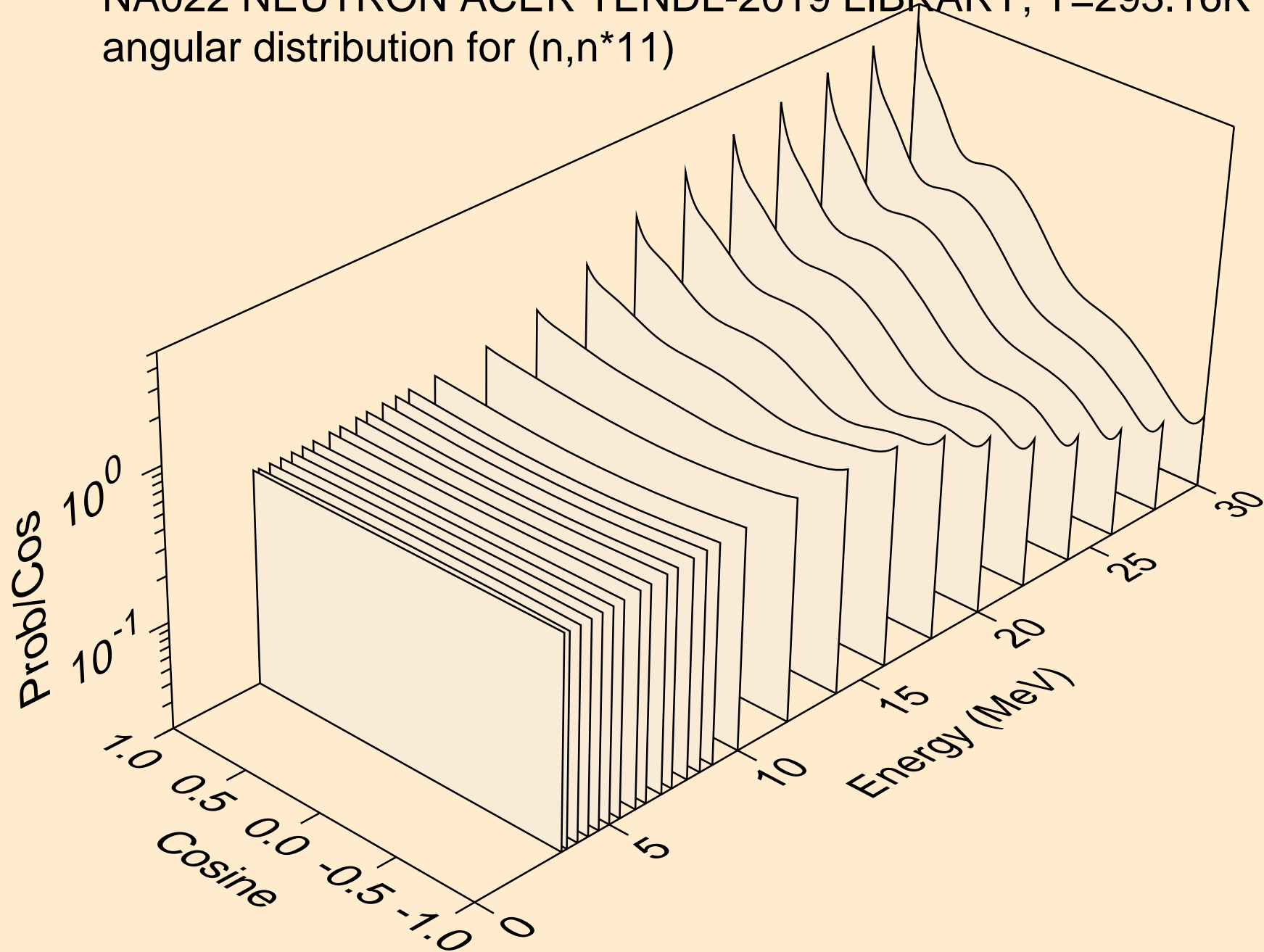




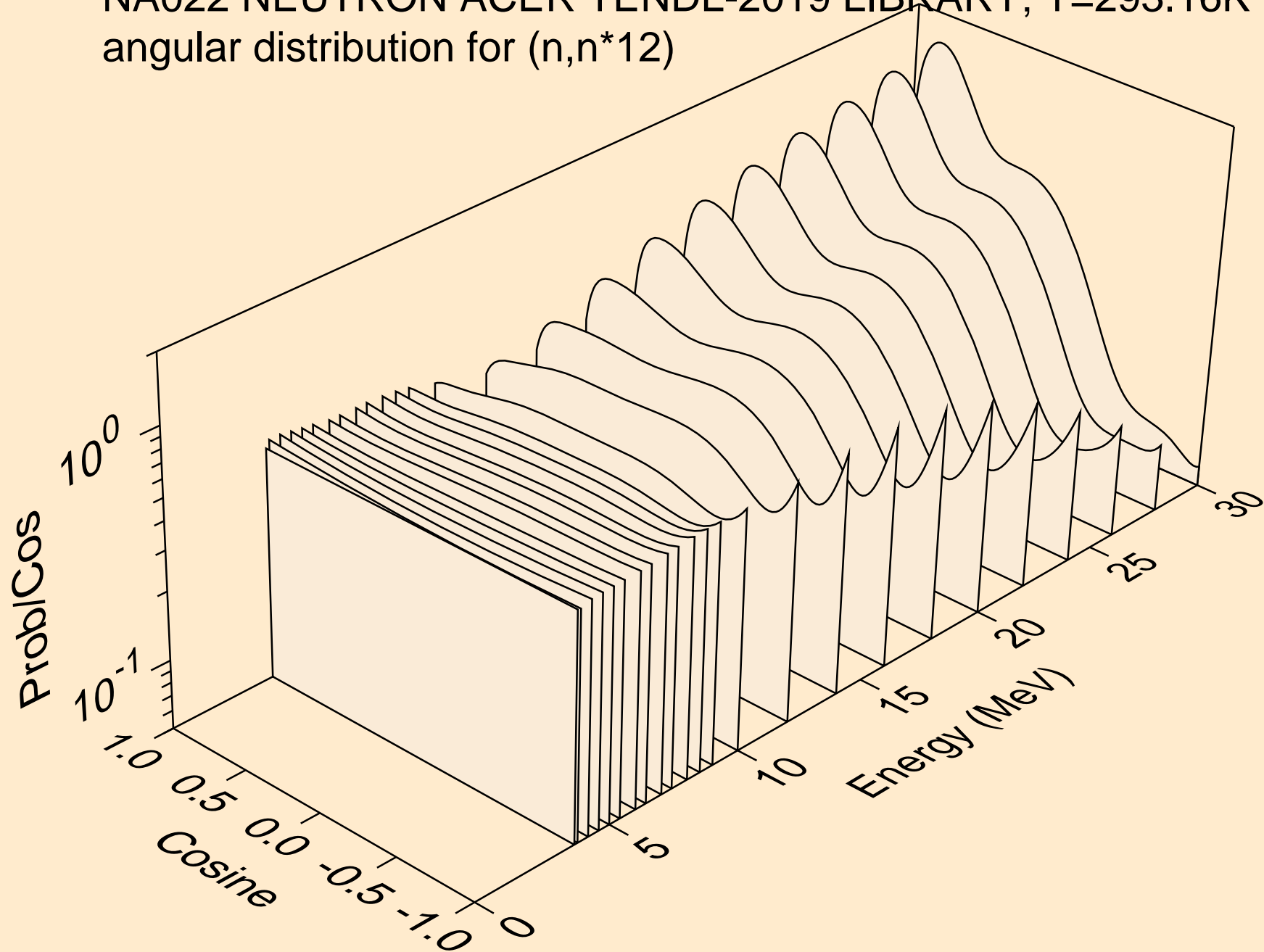
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angular distribution for (n,n\*10)



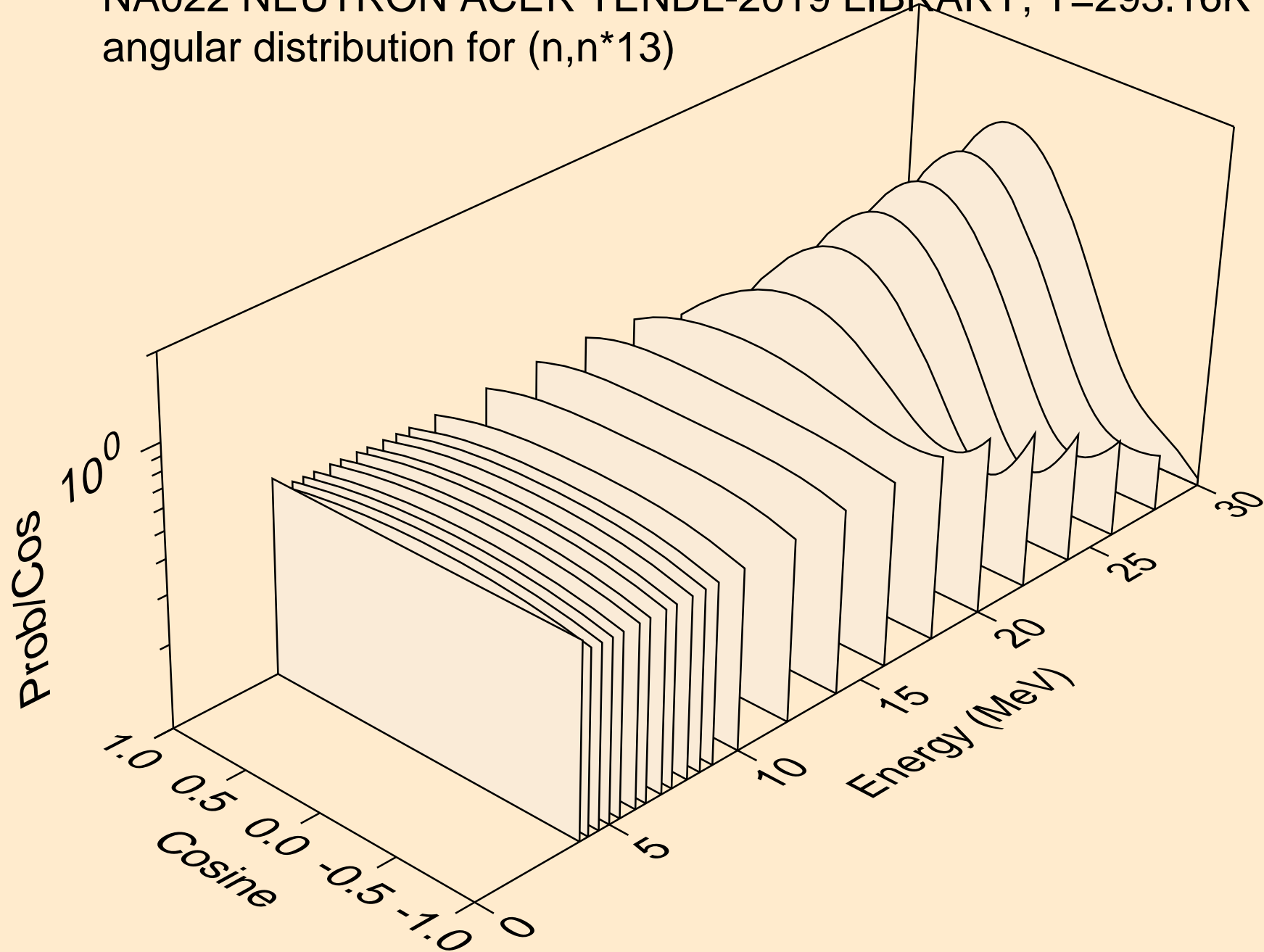
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angular distribution for (n,n\*11)



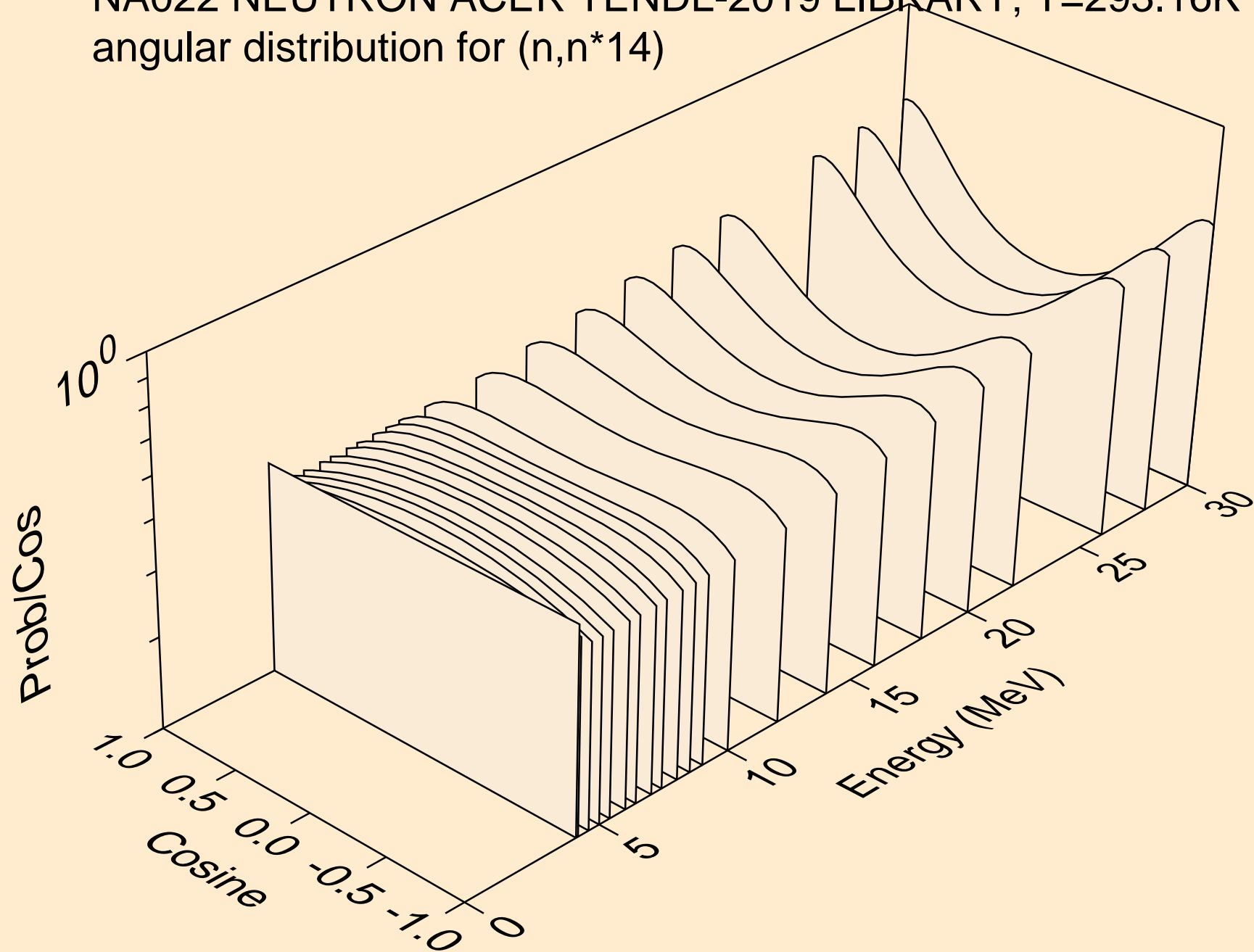
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angular distribution for (n,n\*12)



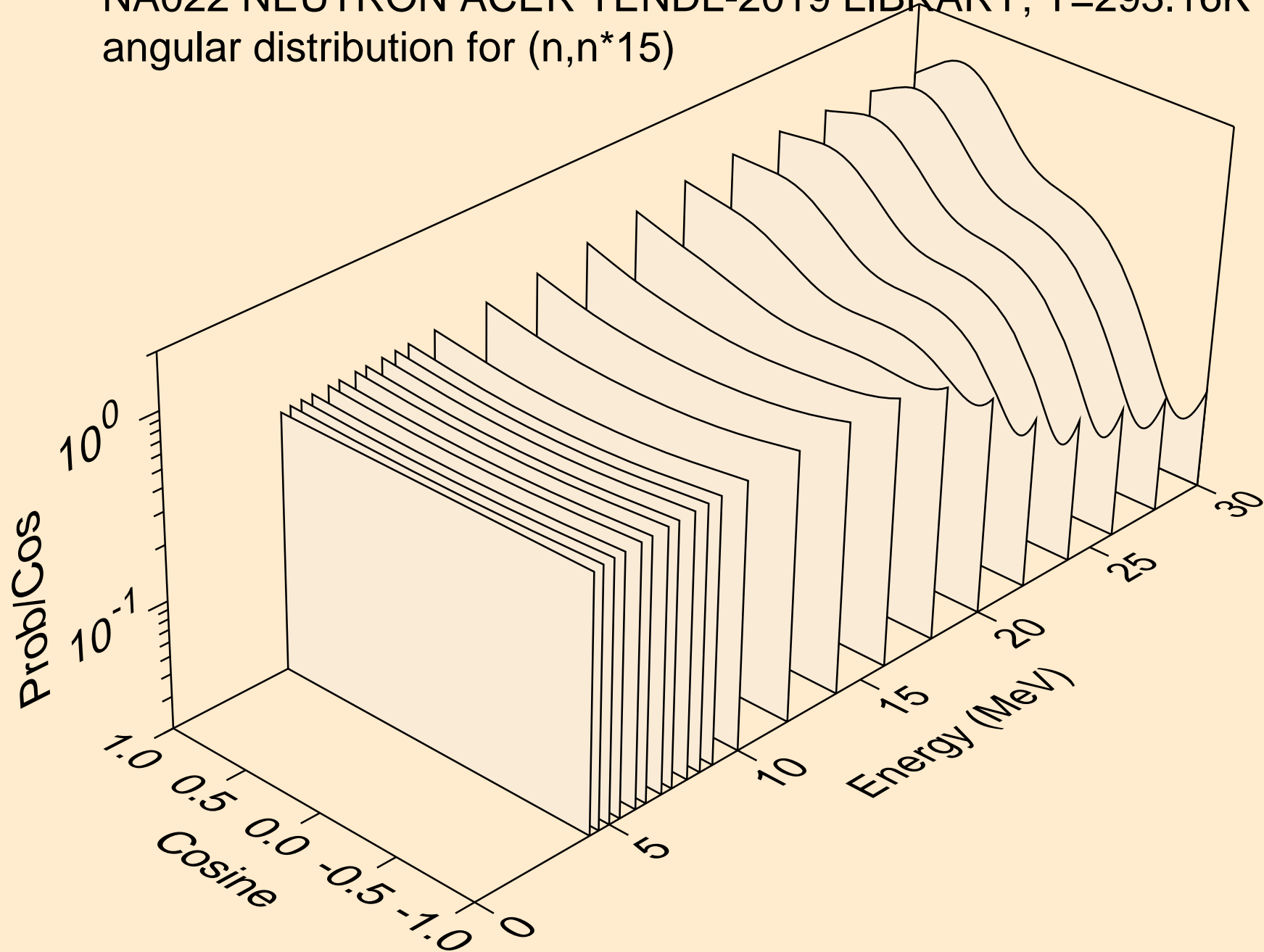
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angular distribution for (n,n\*13)



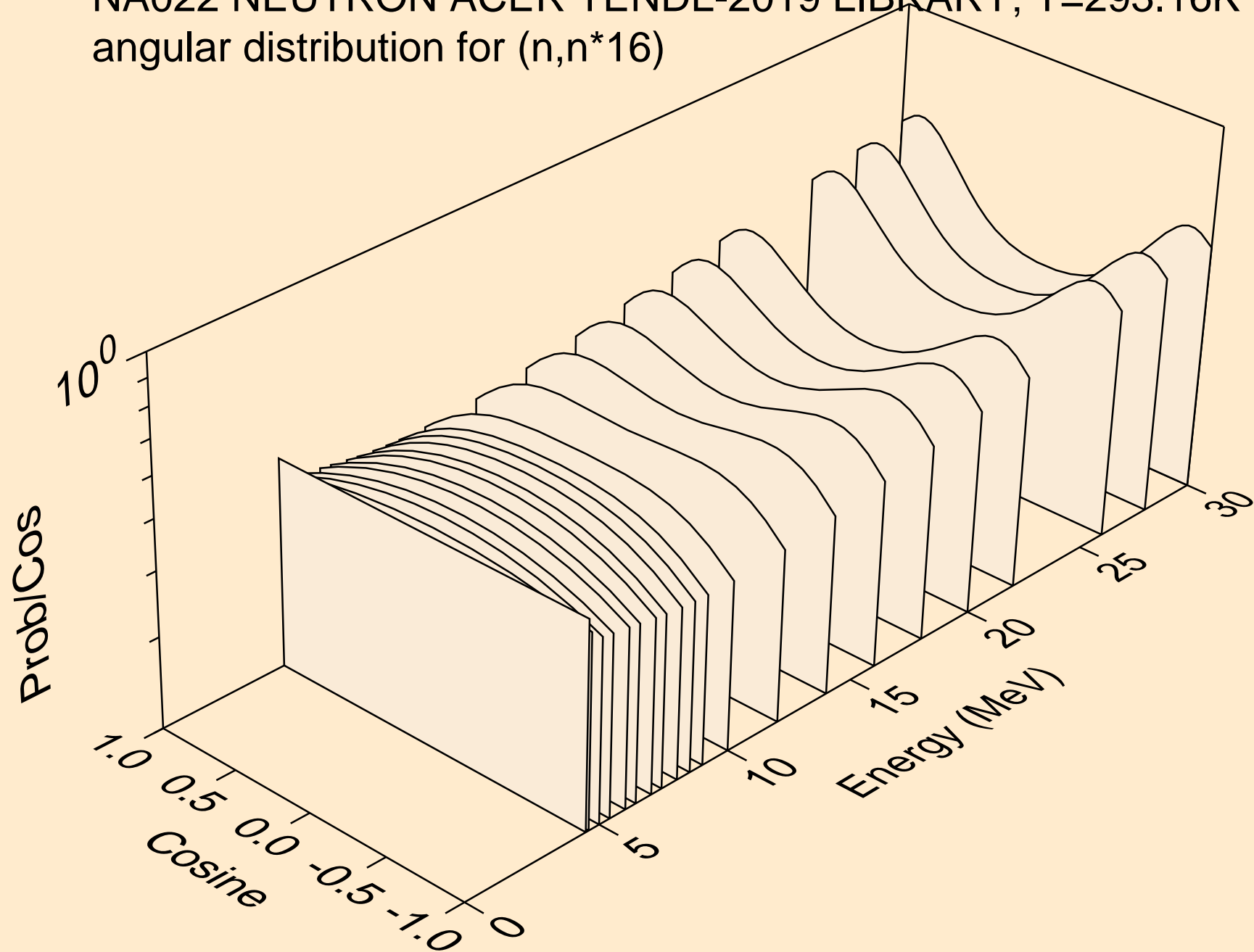
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angular distribution for (n,n\*14)



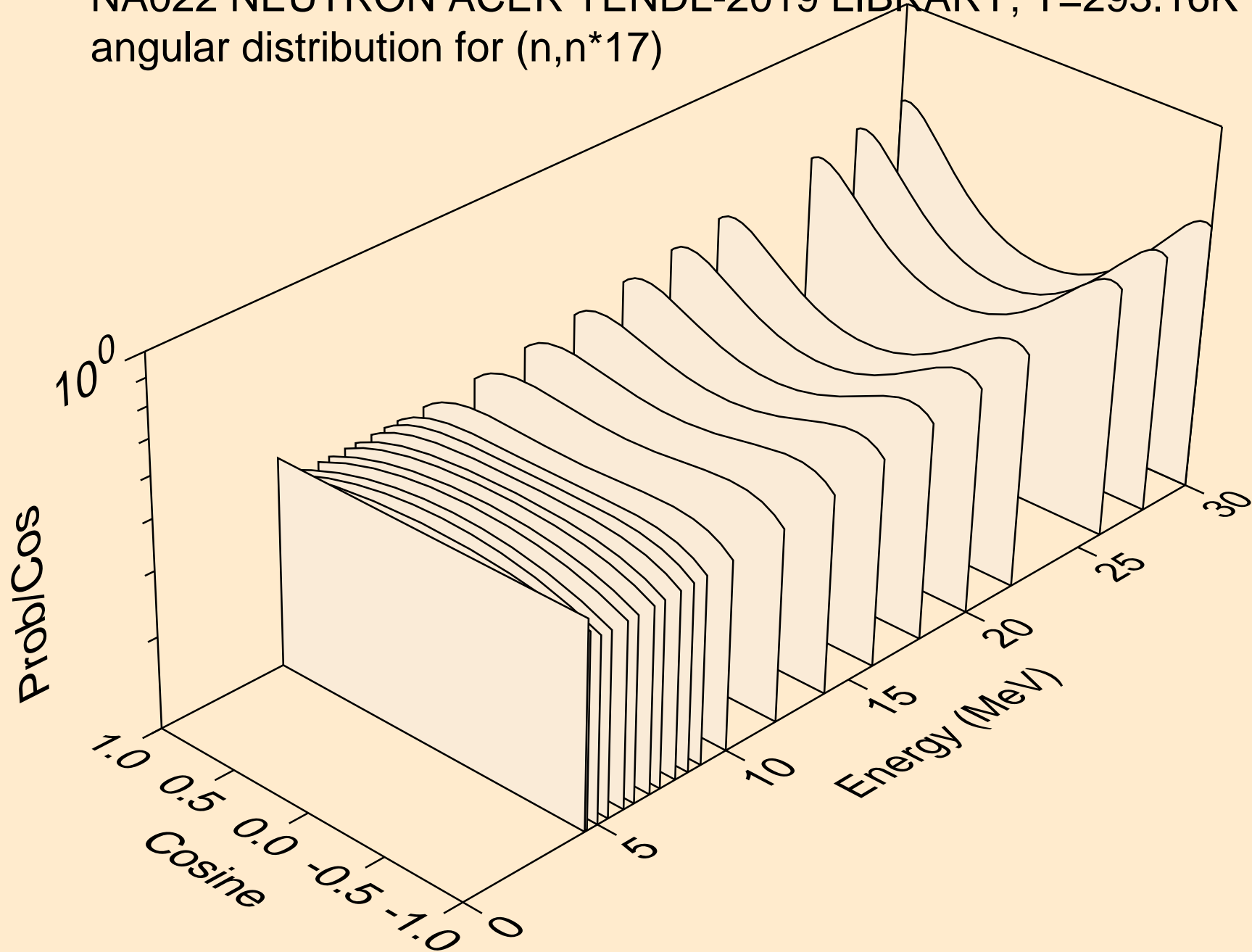
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angular distribution for (n,n\*15)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)

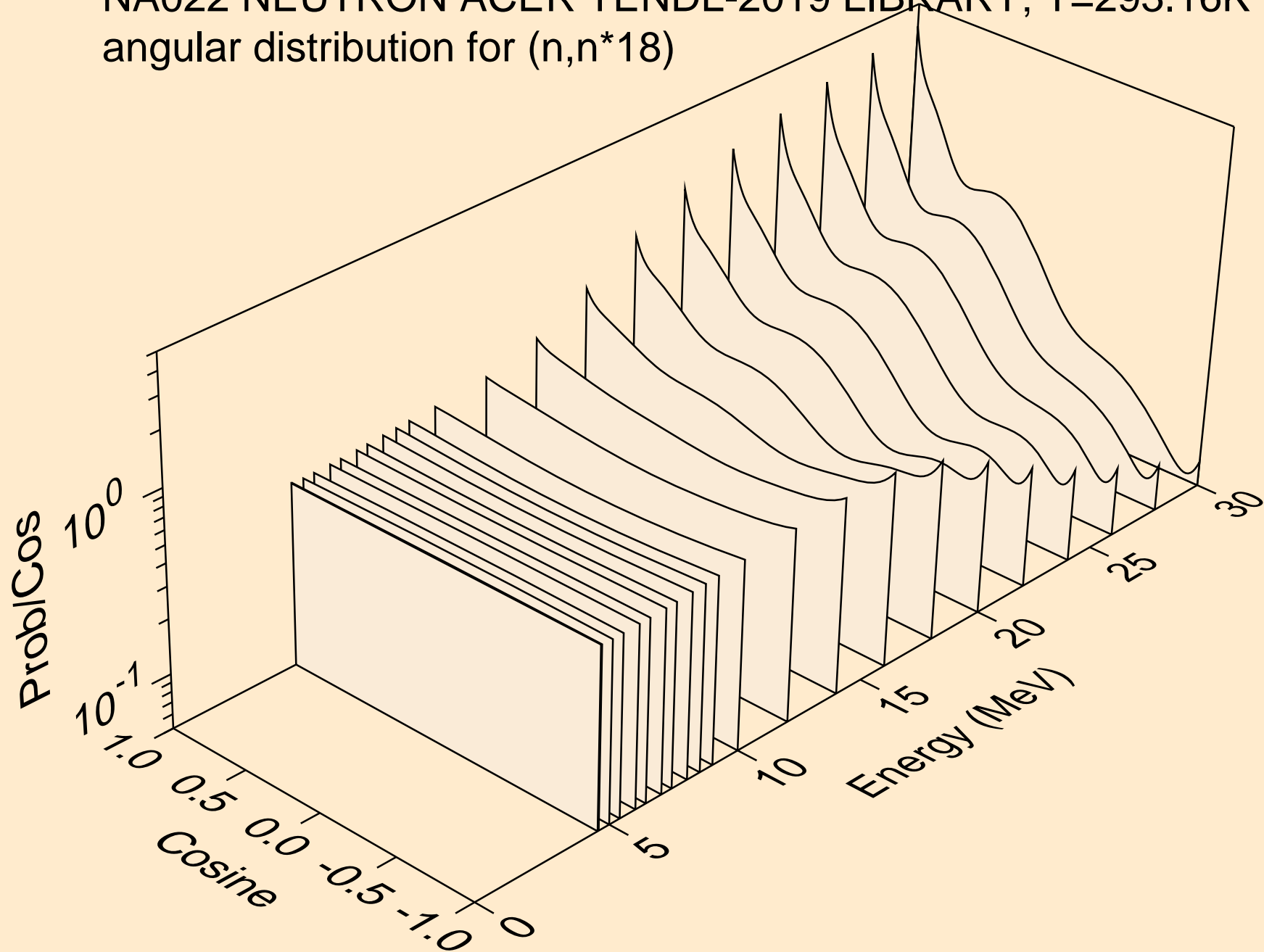


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angular distribution for (n,n\*17)

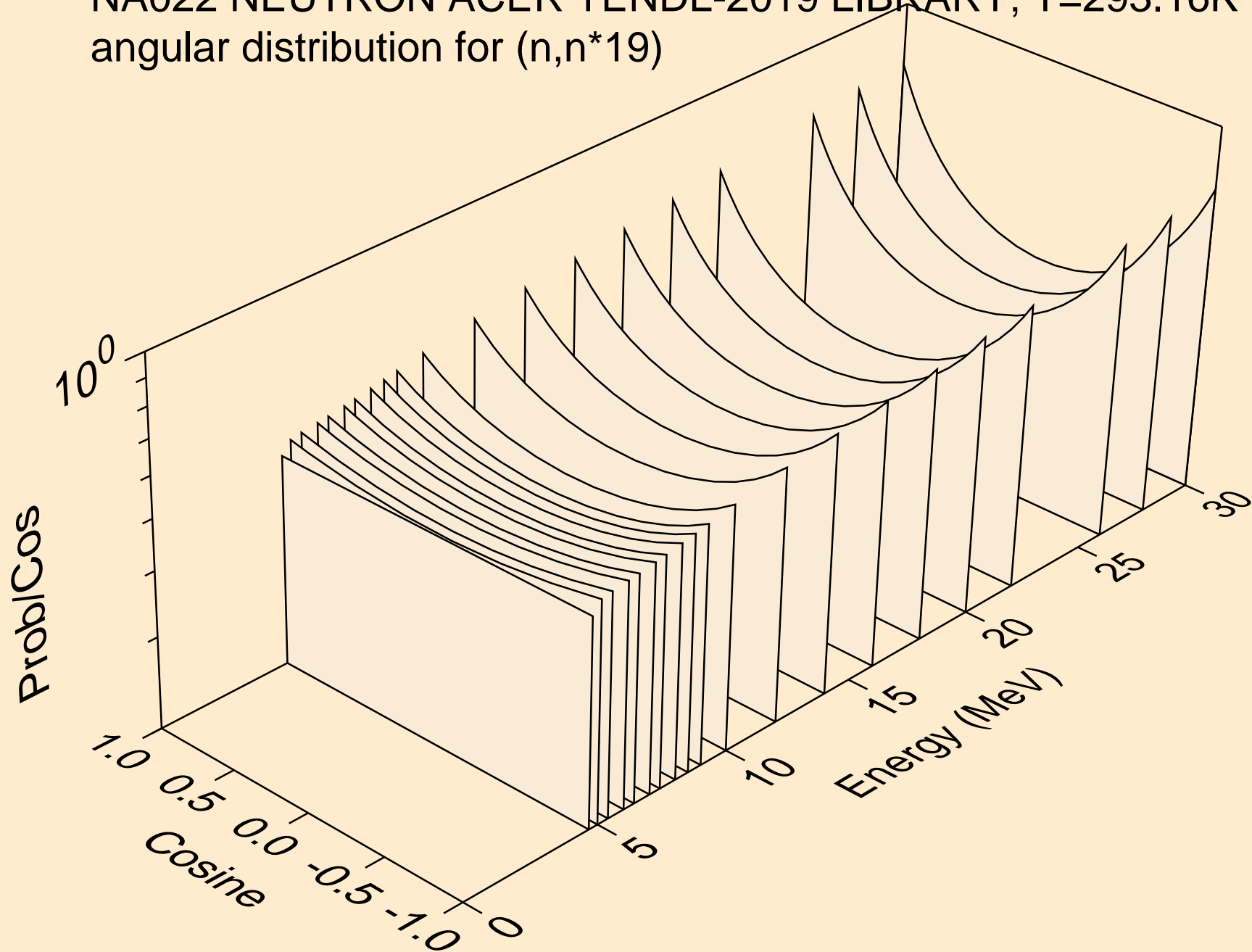




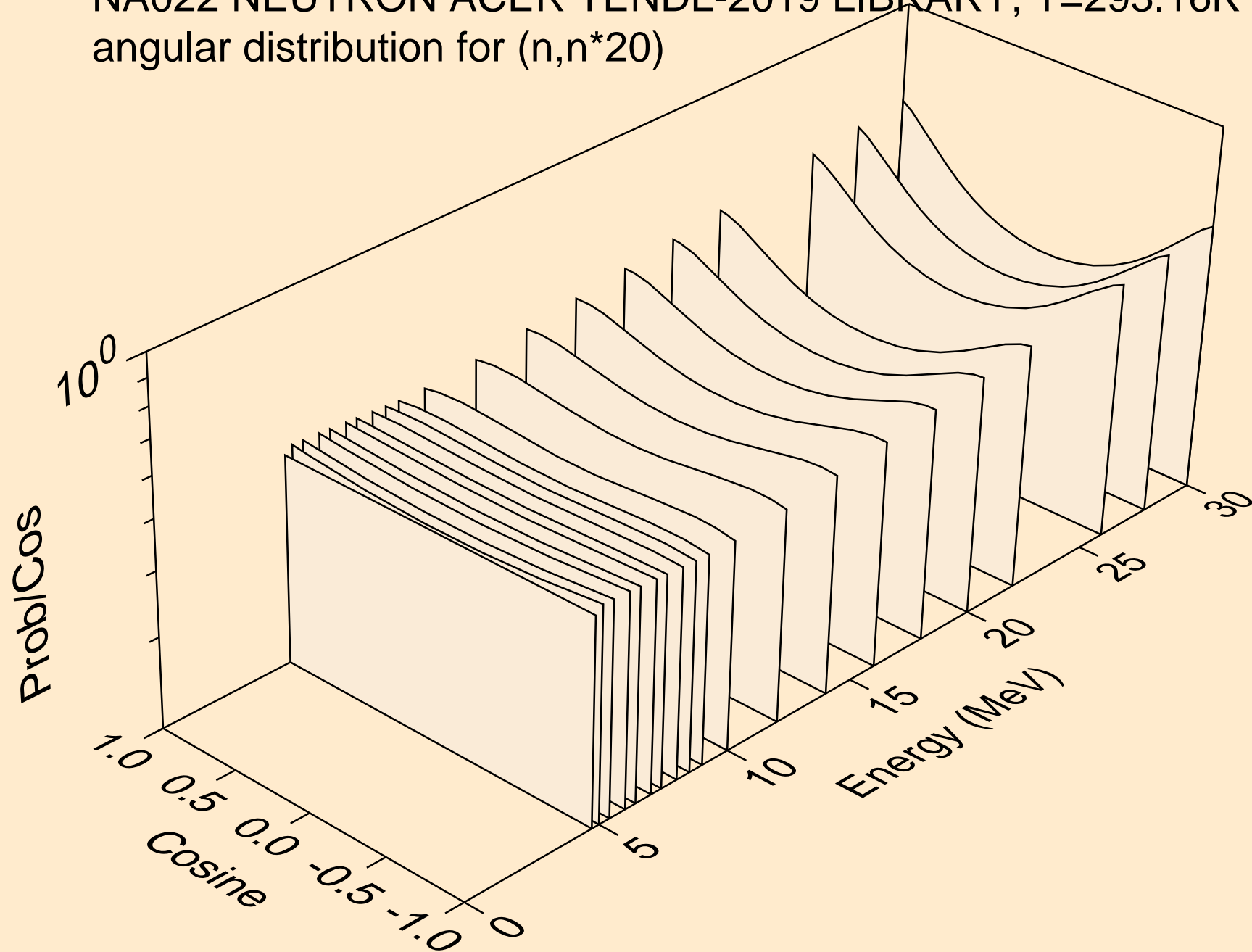
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angular distribution for (n,n\*18)



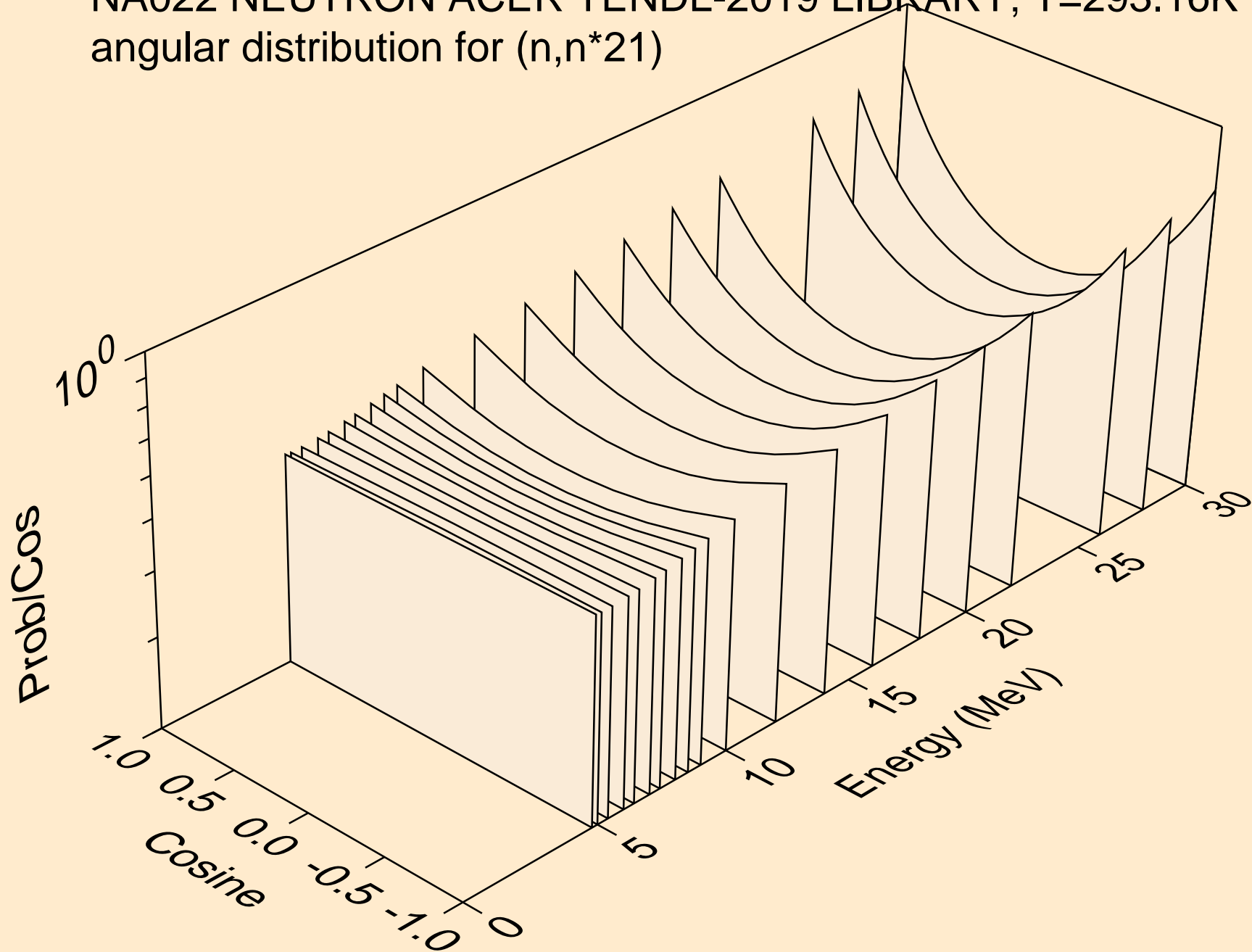
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angular distribution for (n,n\*19)



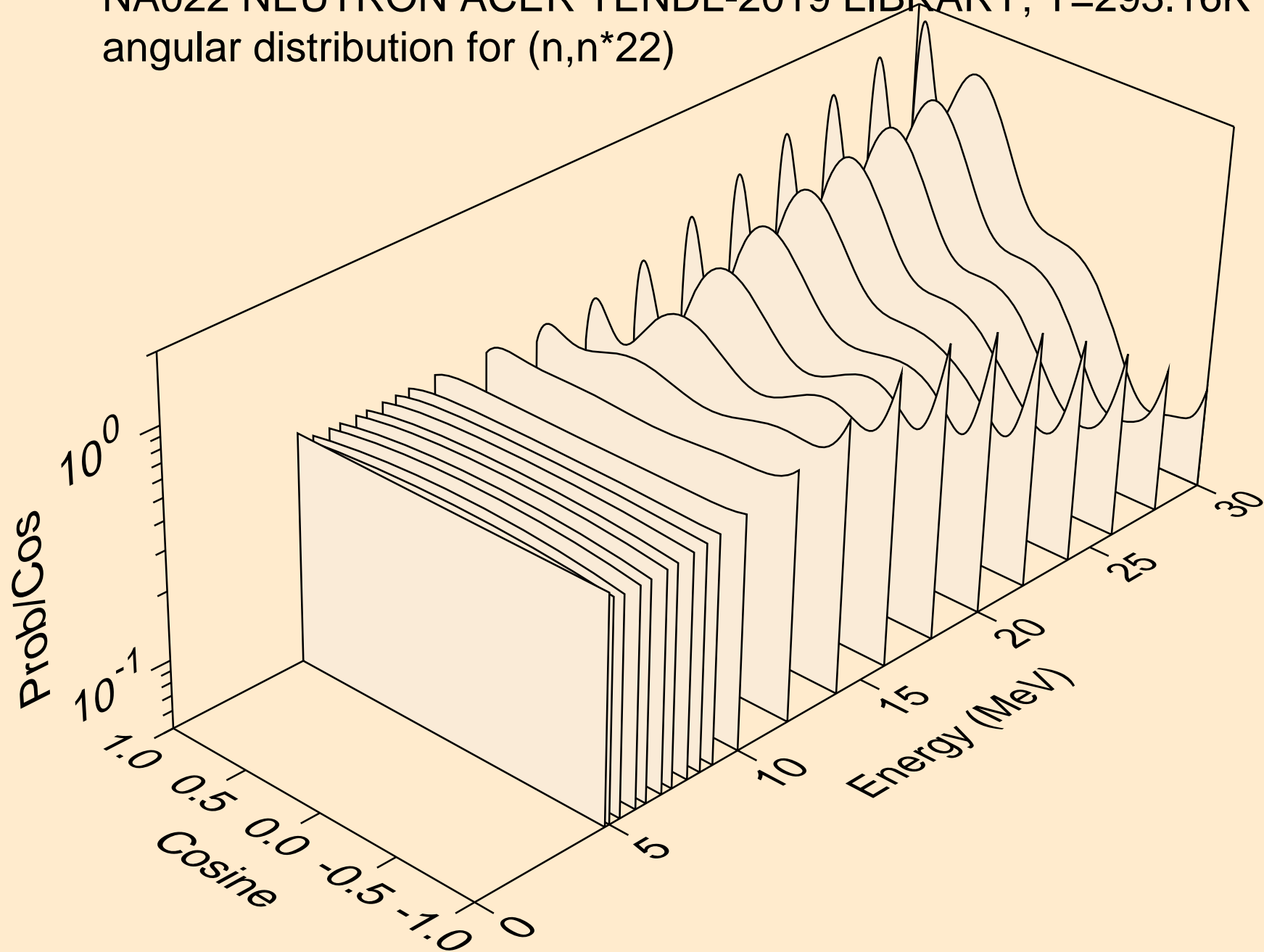
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angular distribution for (n,n\*20)



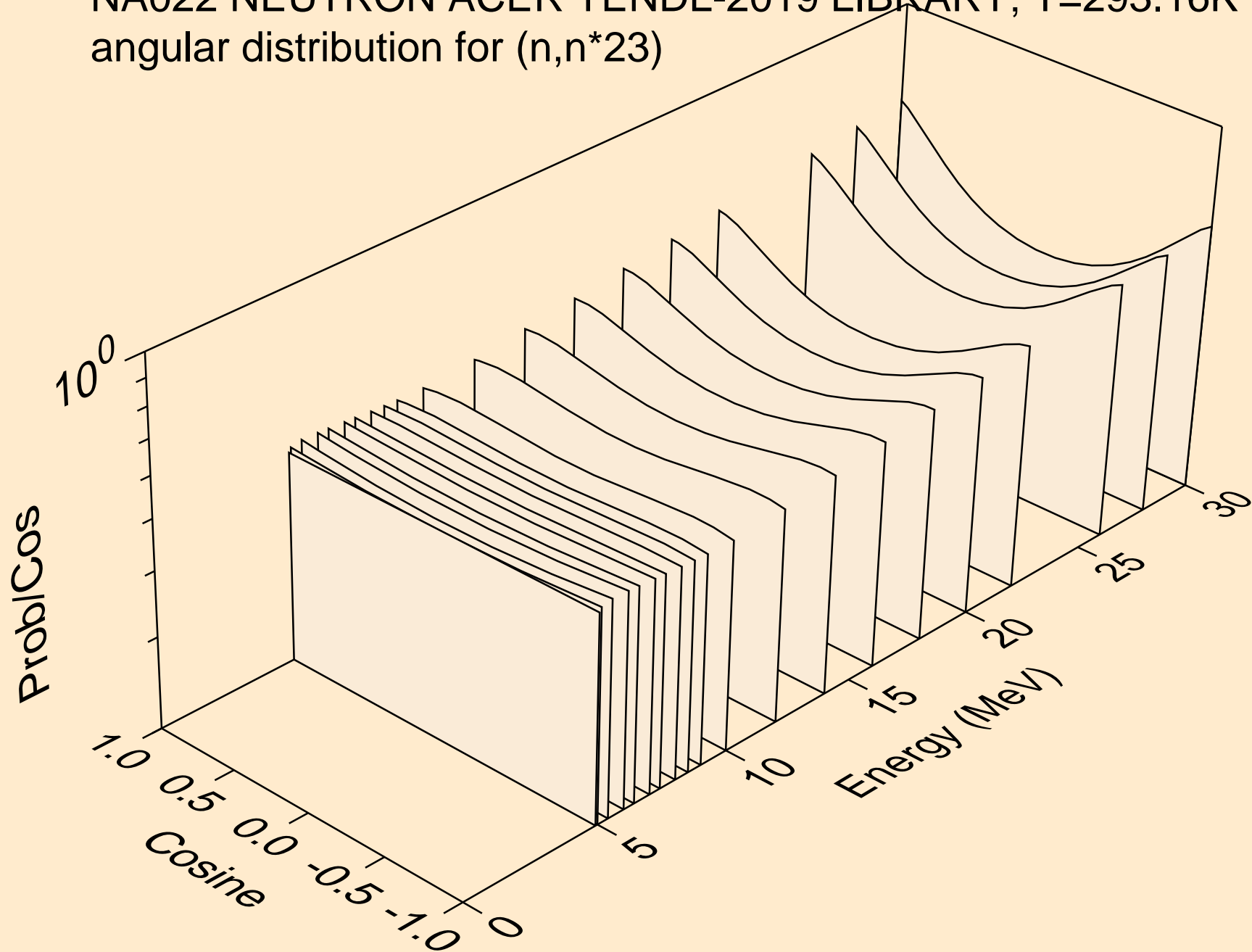
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angular distribution for (n,n\*21)



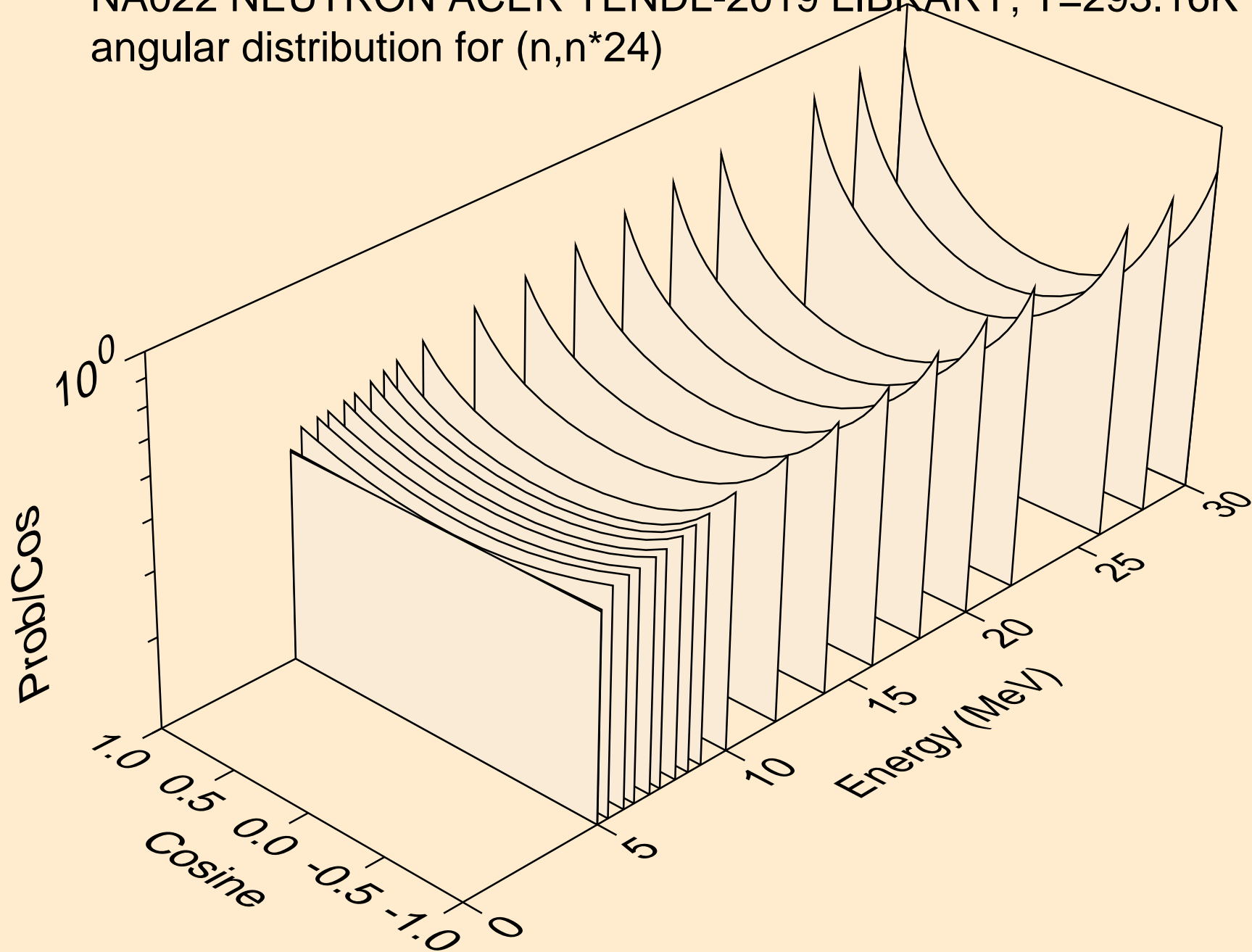
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angular distribution for (n,n\*22)



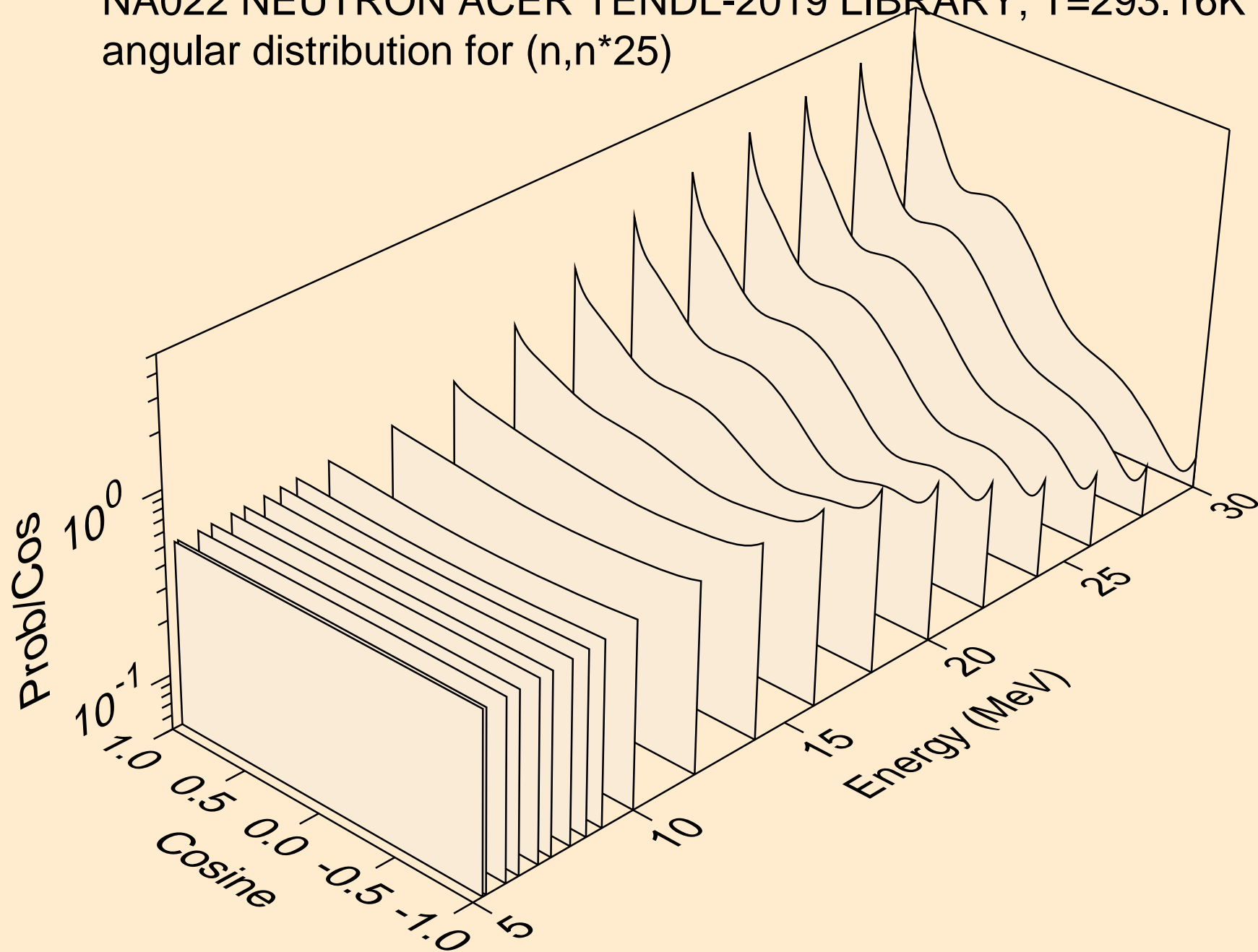
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angular distribution for (n,n\*23)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)

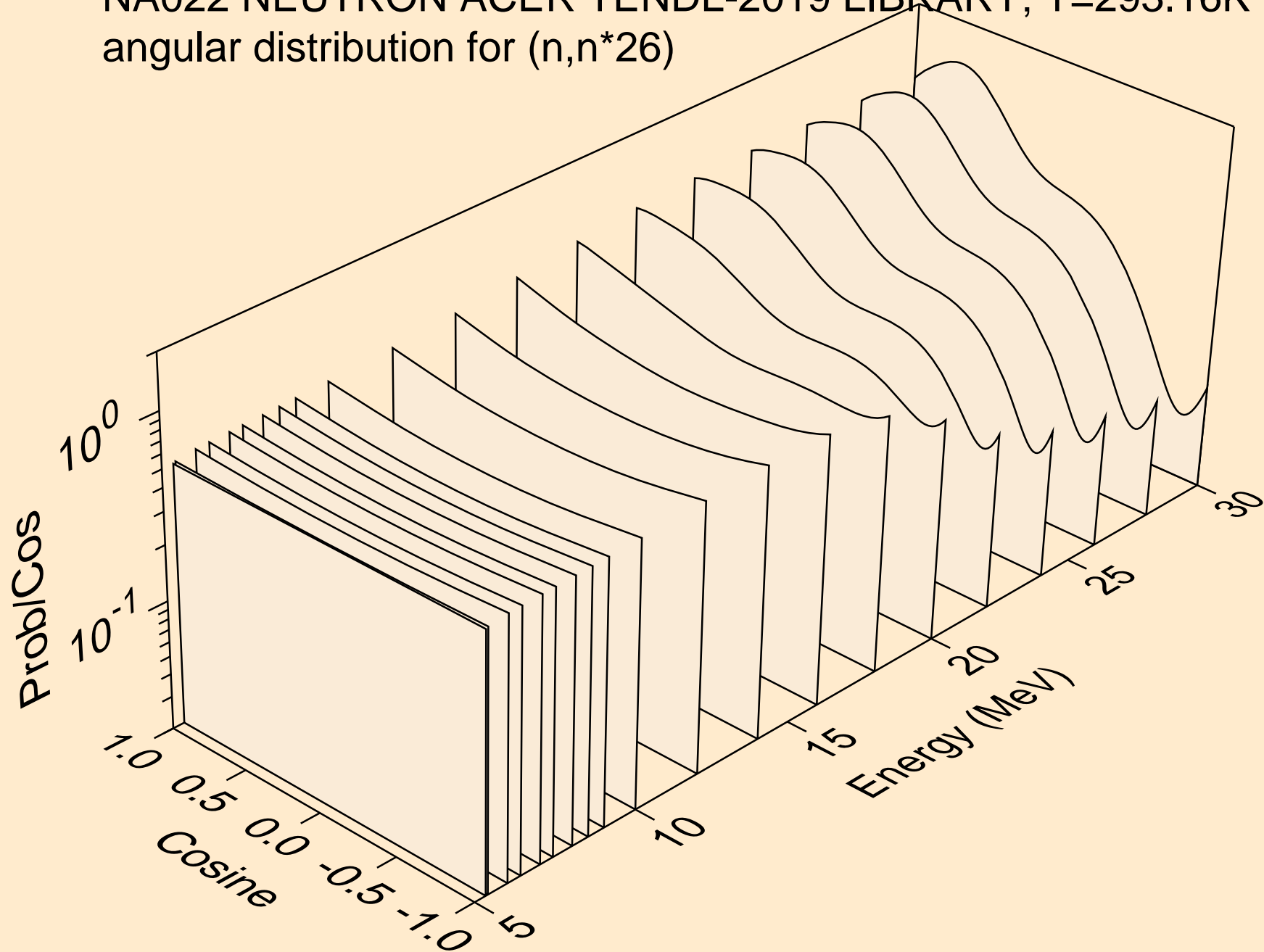


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angular distribution for (n,n\*25)

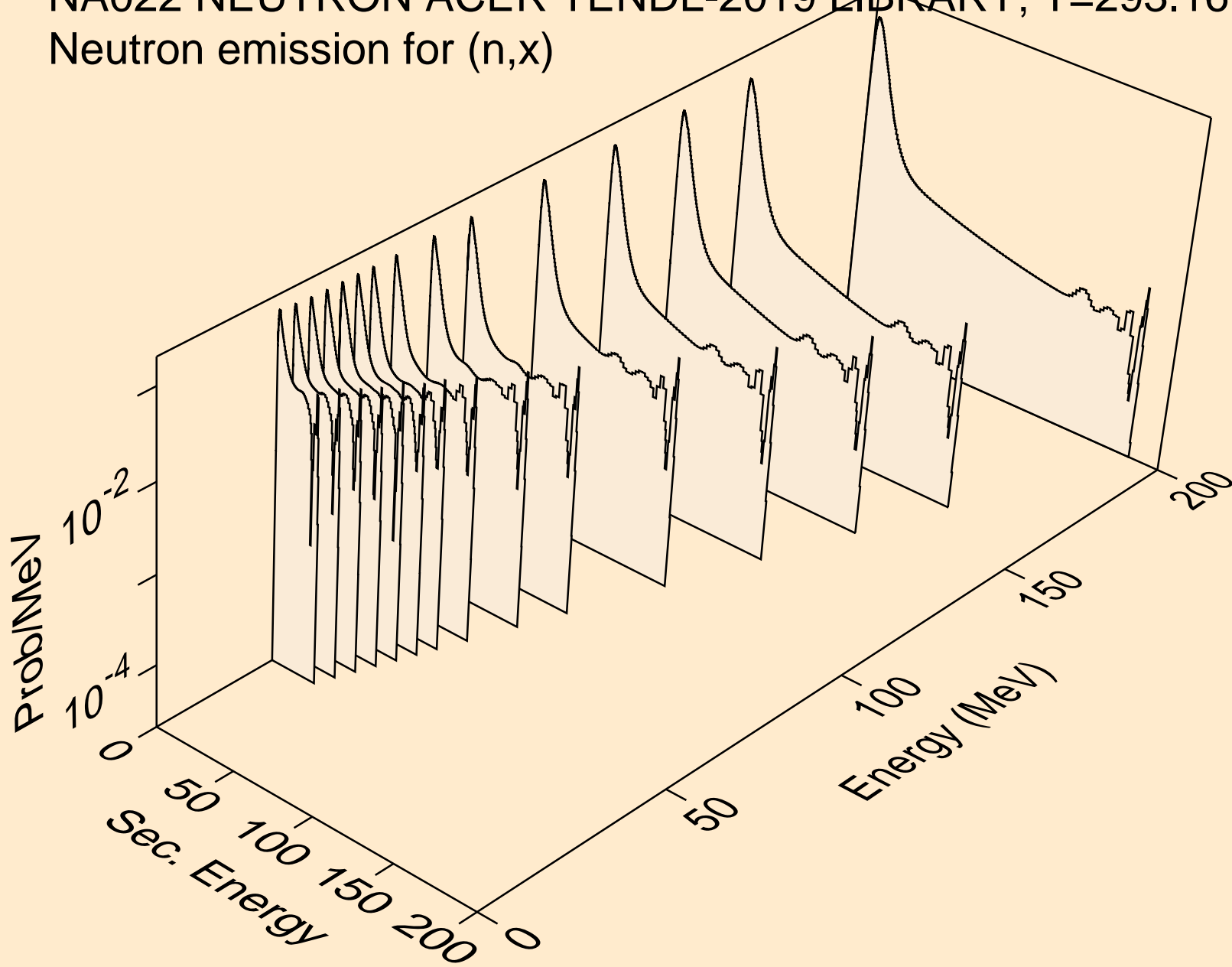




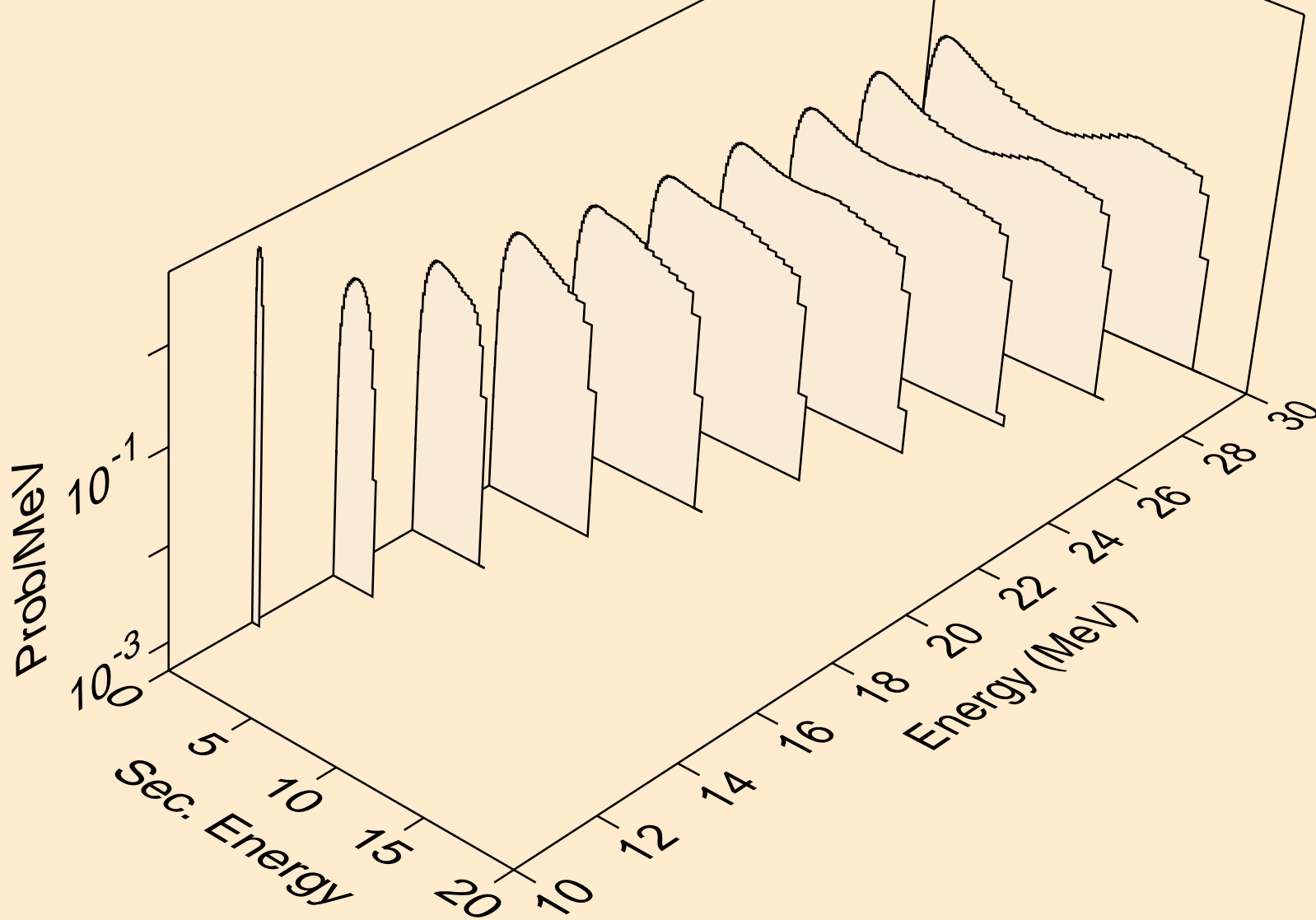
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angular distribution for (n,n\*26)



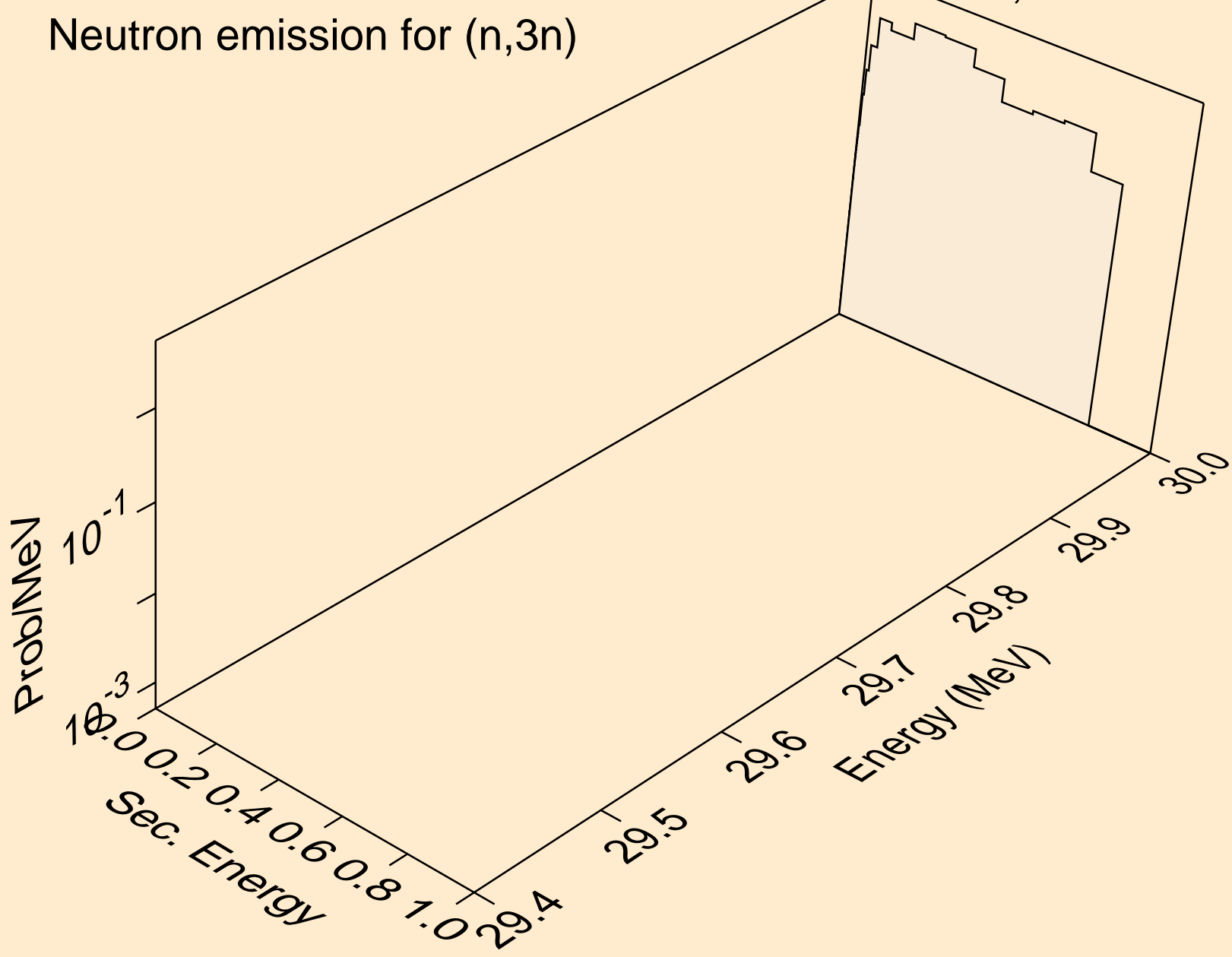
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Neutron emission for (n,x)



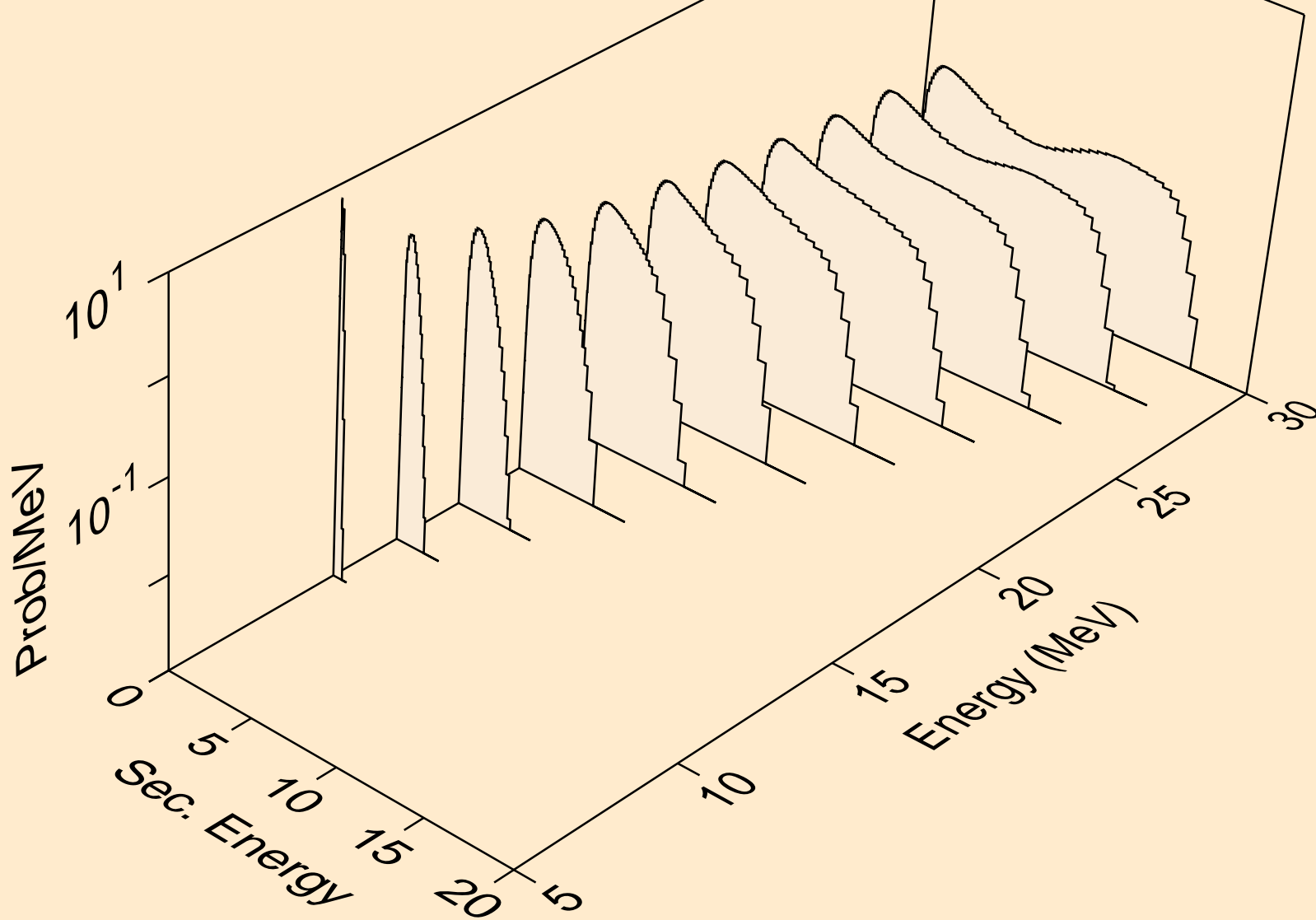
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Neutron emission for (n,2n)



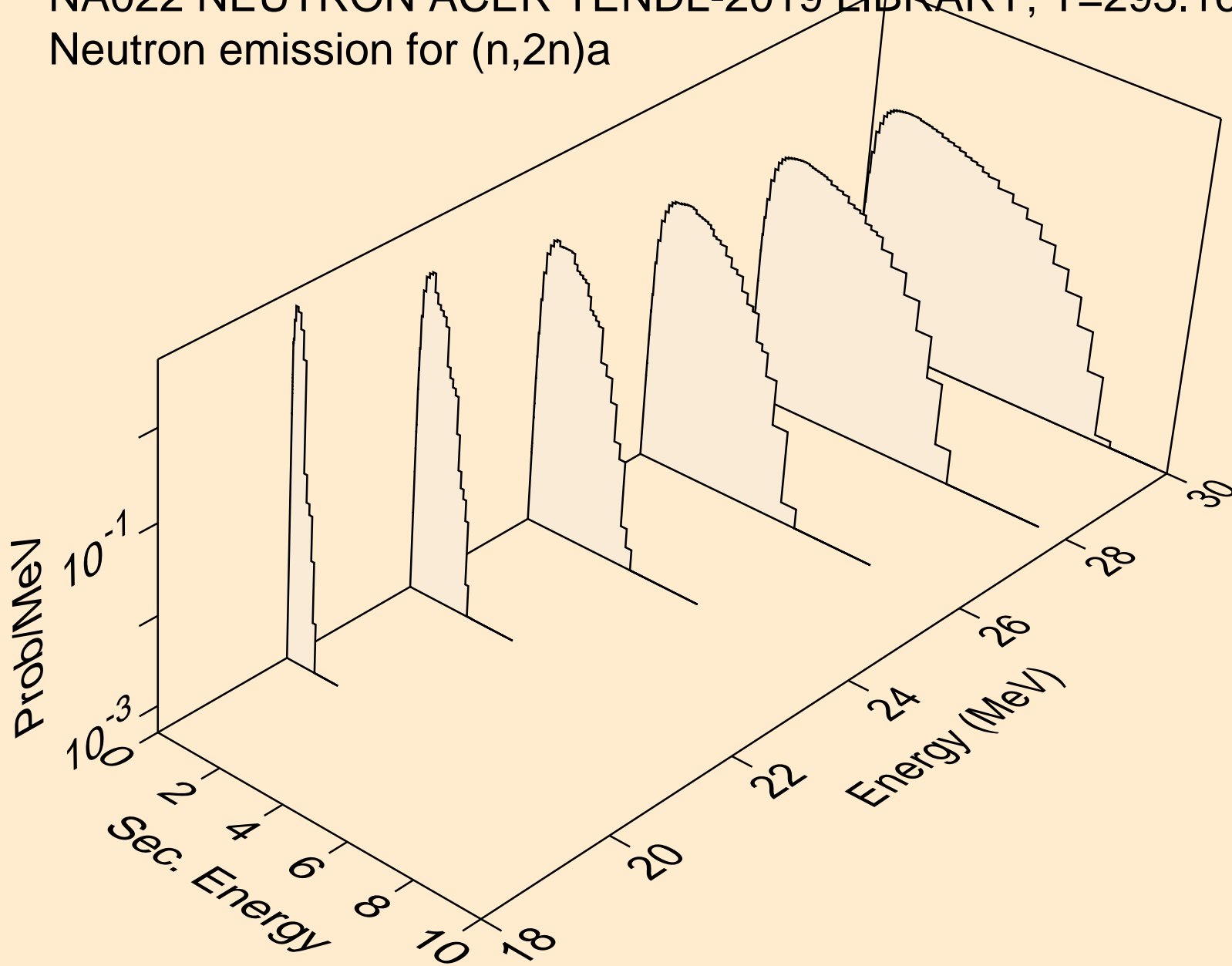
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Neutron emission for (n,3n)



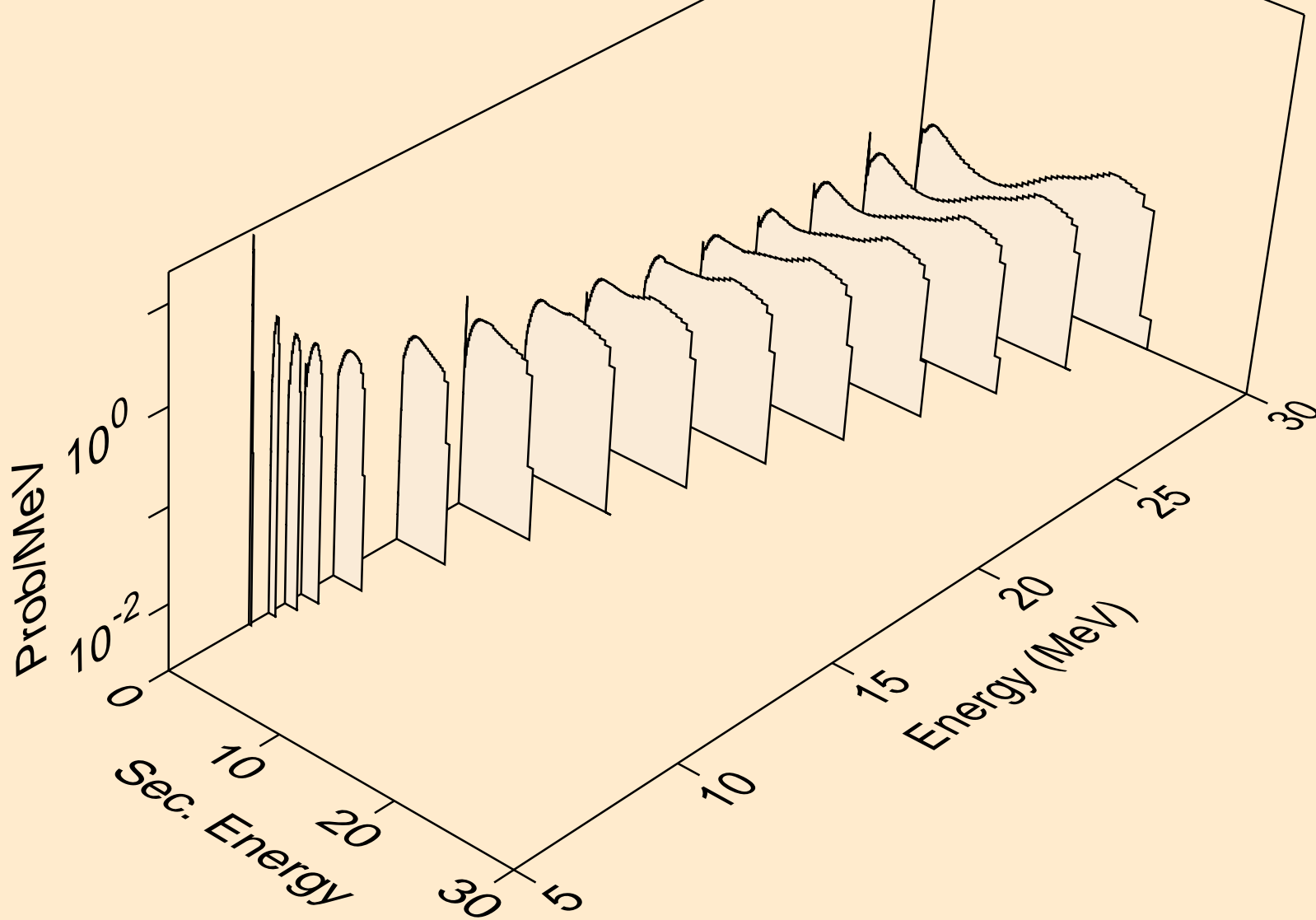
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Neutron emission for (n,n\*)a



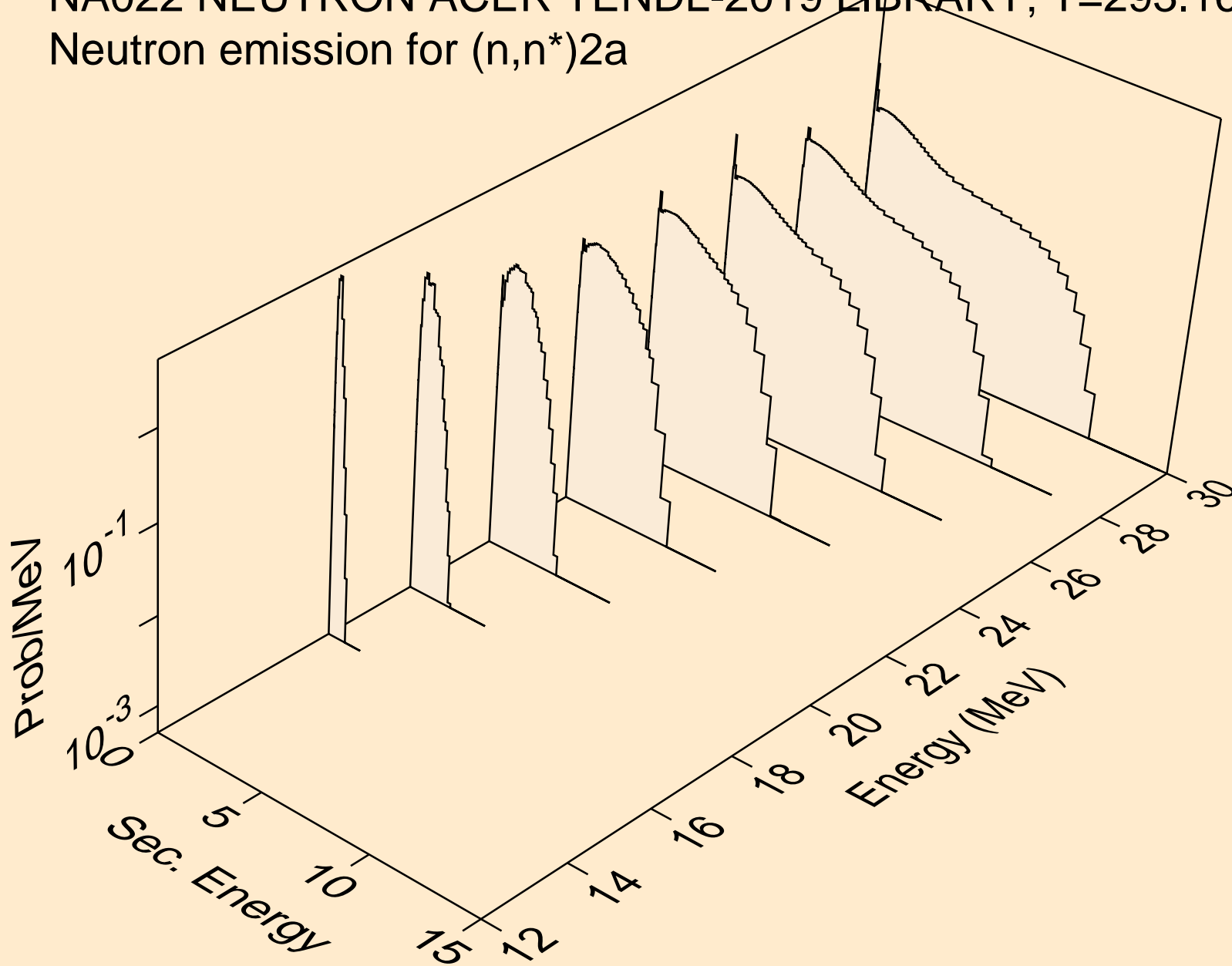
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Neutron emission for (n,2n)a



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

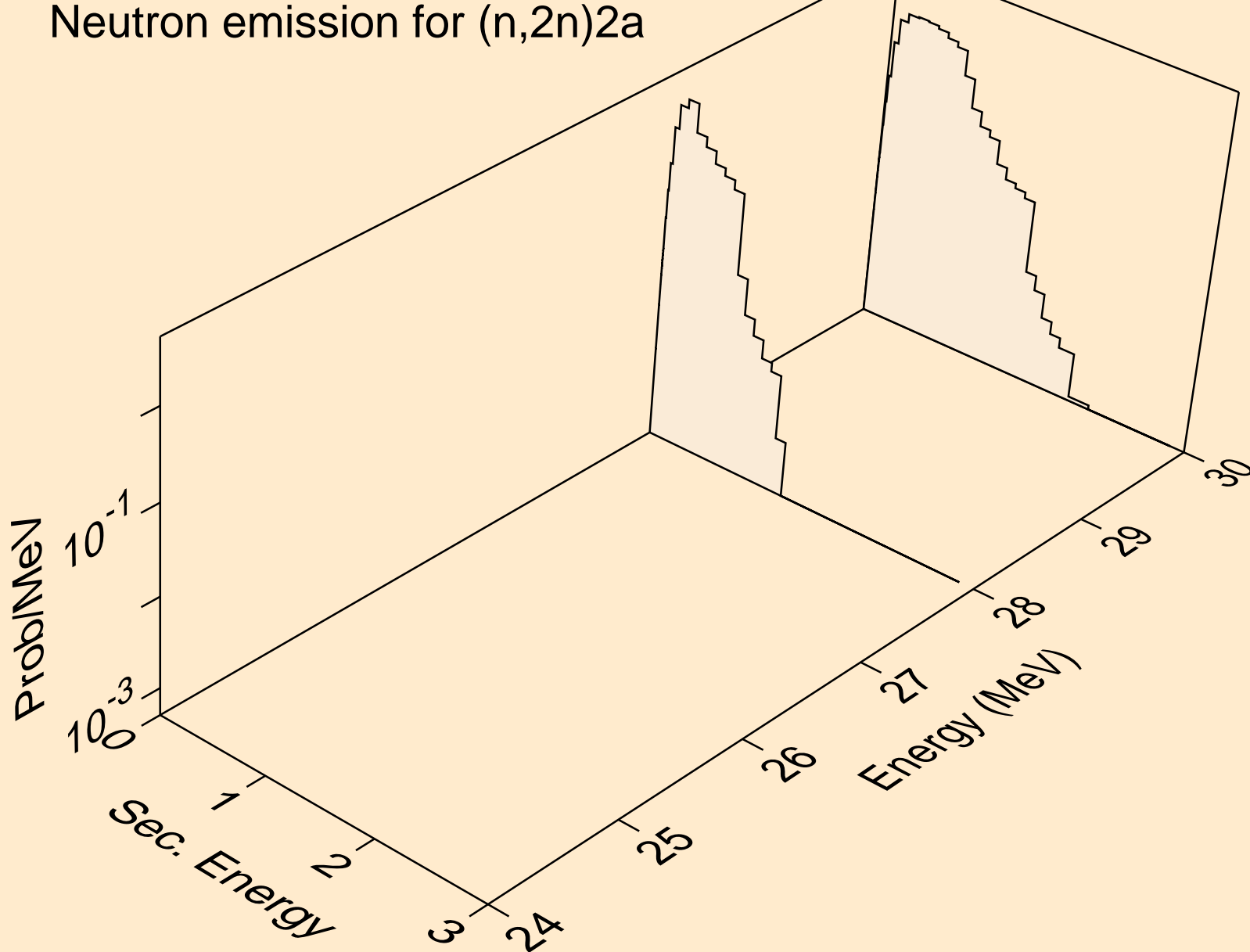


NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

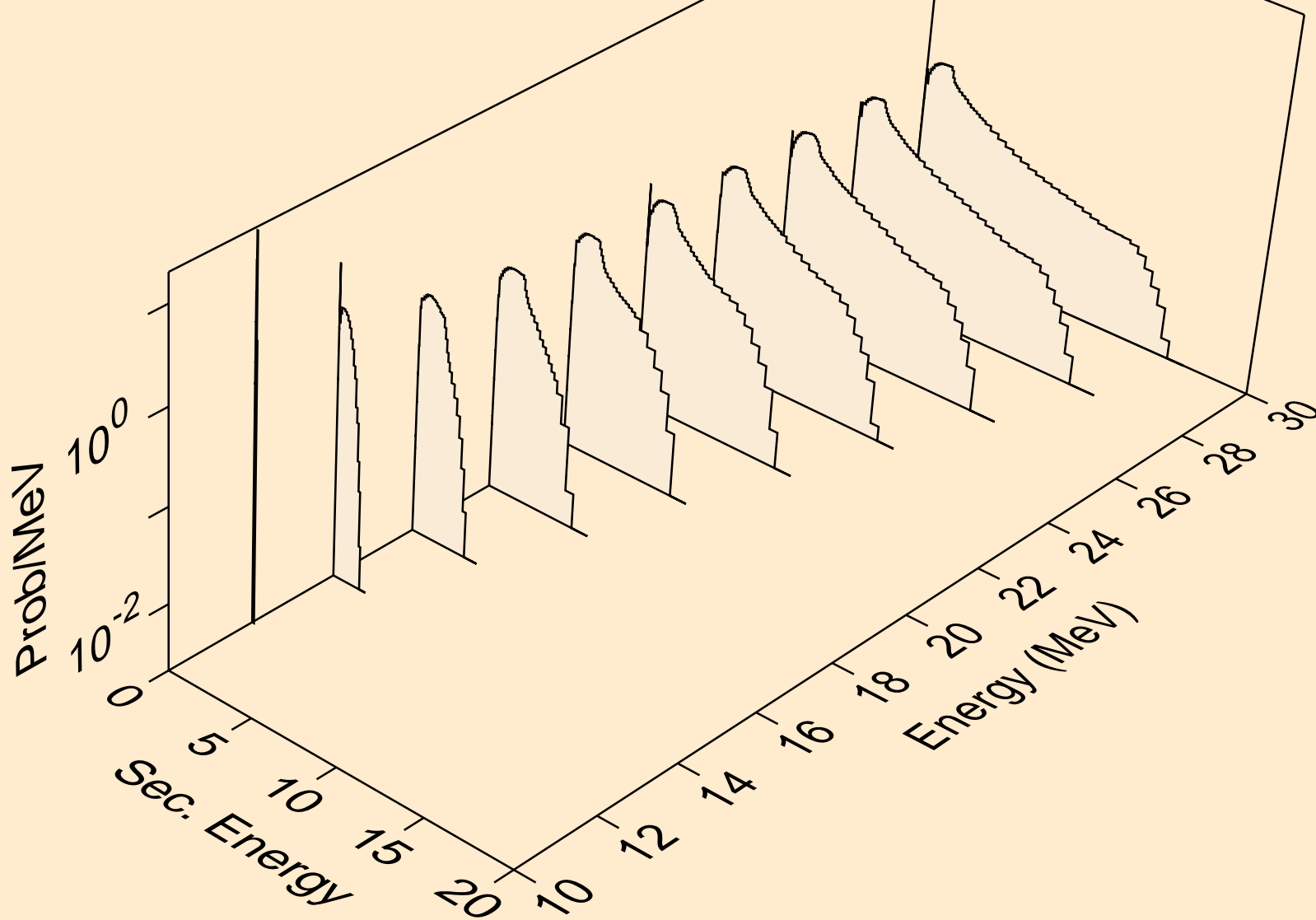




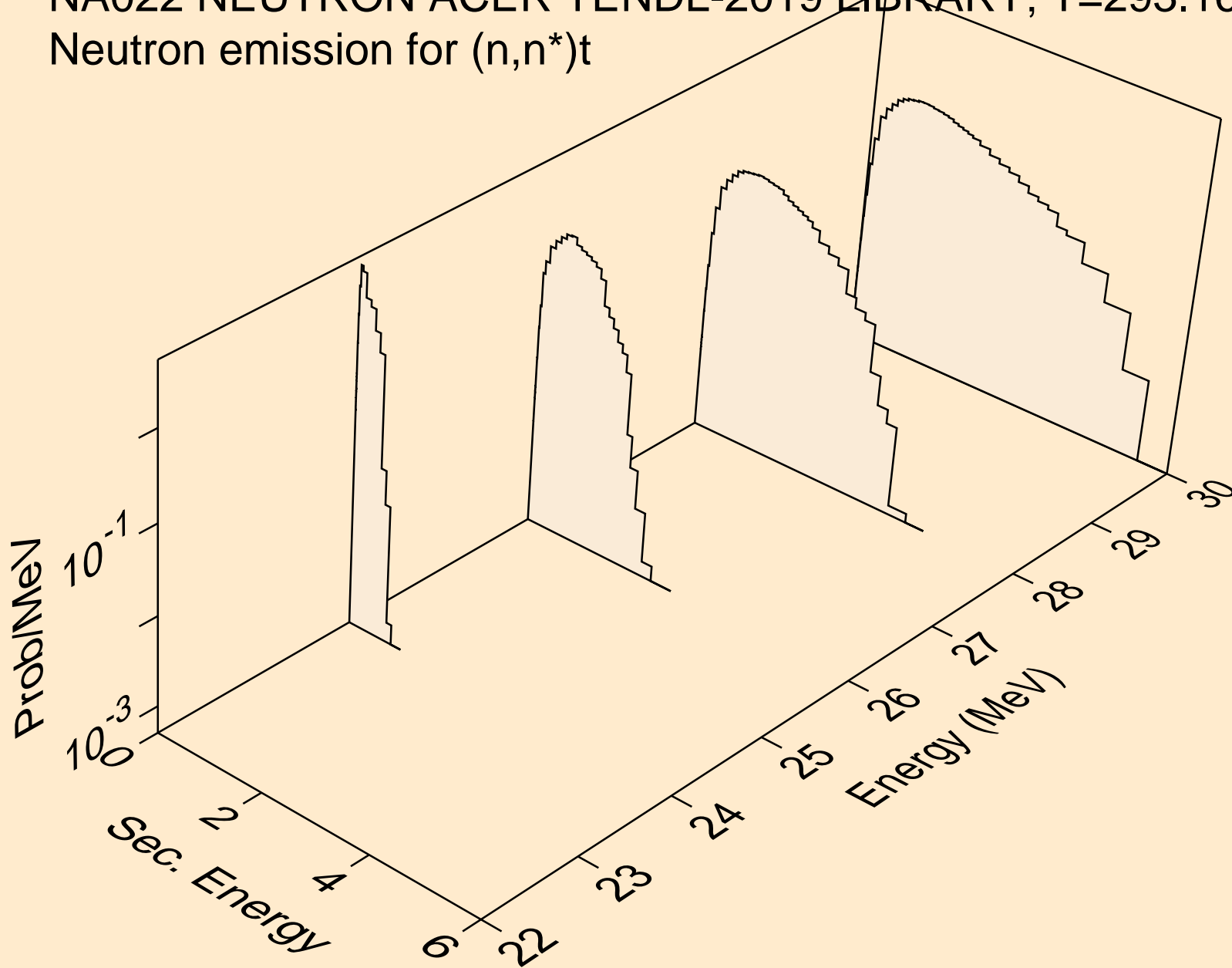
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Neutron emission for (n,2n)2a



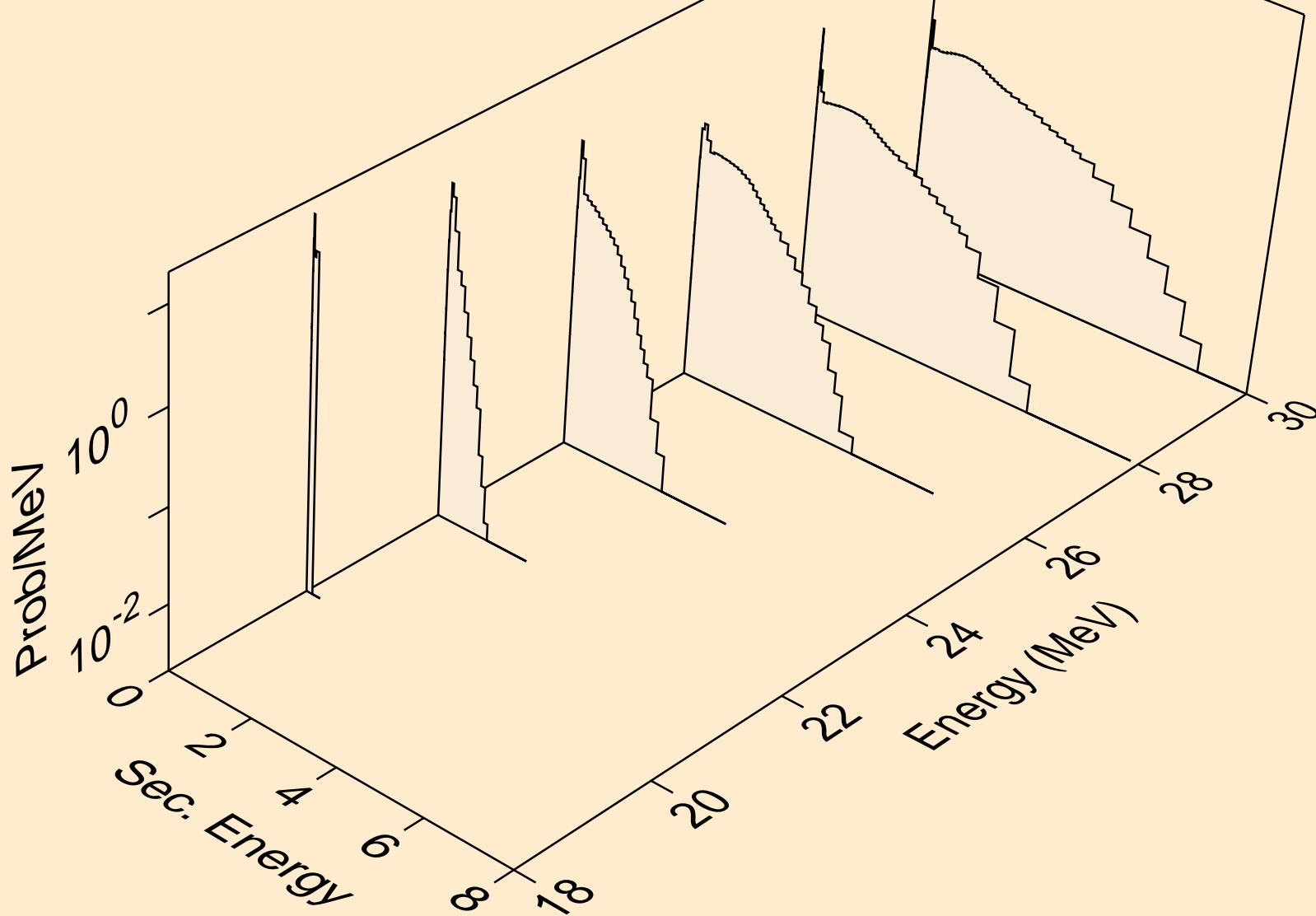
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Neutron emission for (n,n\*)d



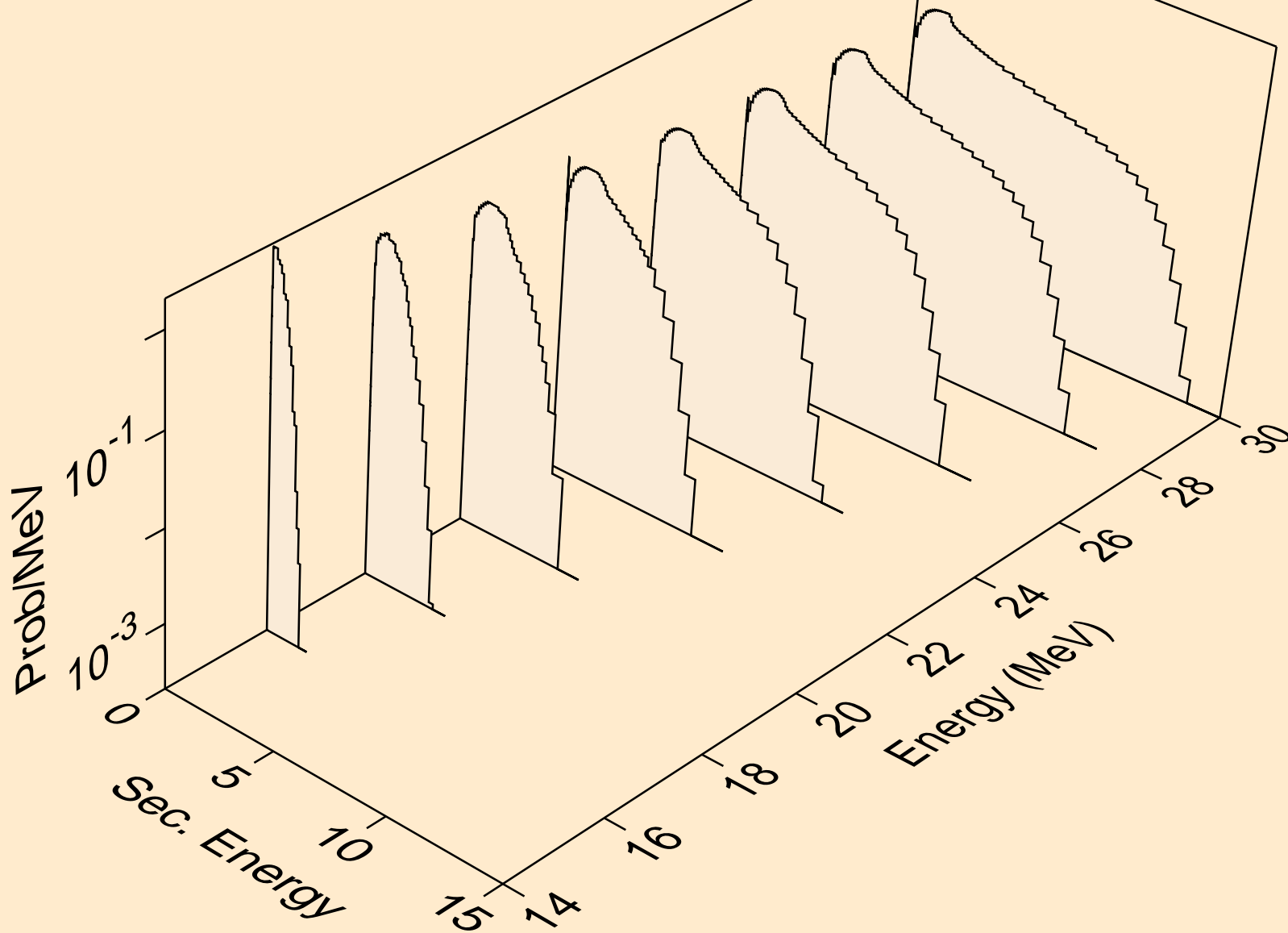
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Neutron emission for (n,n\*)t



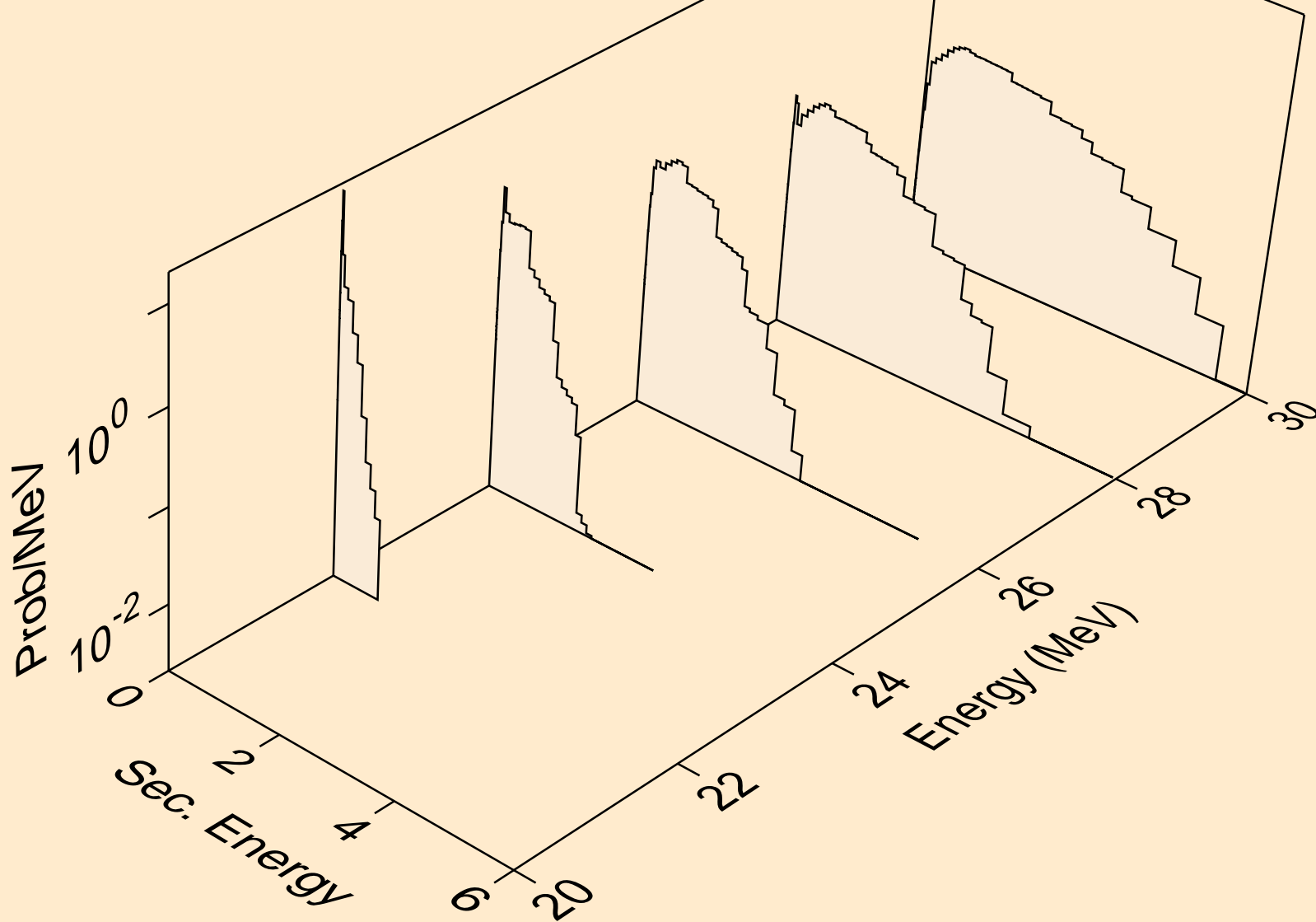
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Neutron emission for (n,n\*)he3



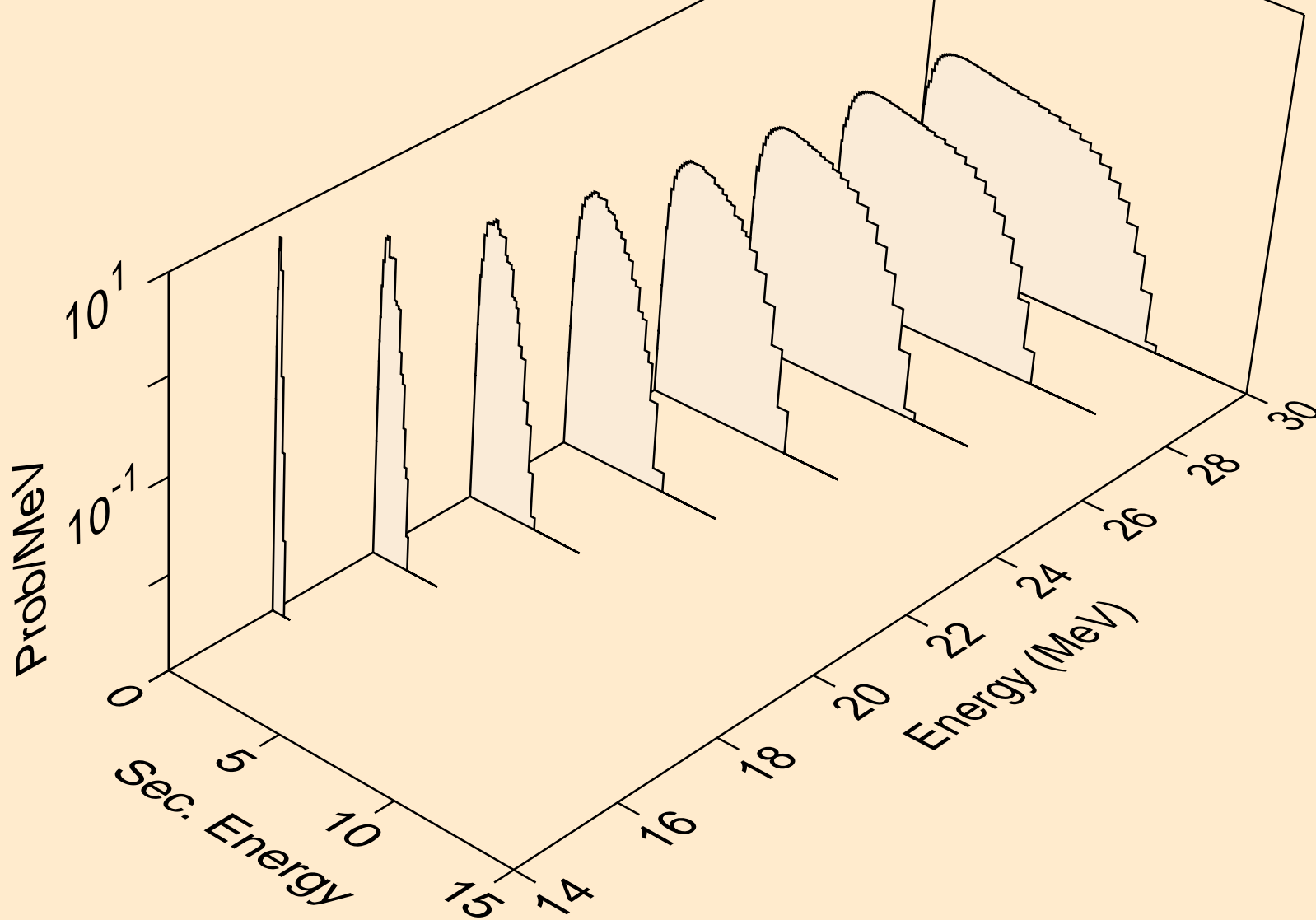
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Neutron emission for (n,2np)



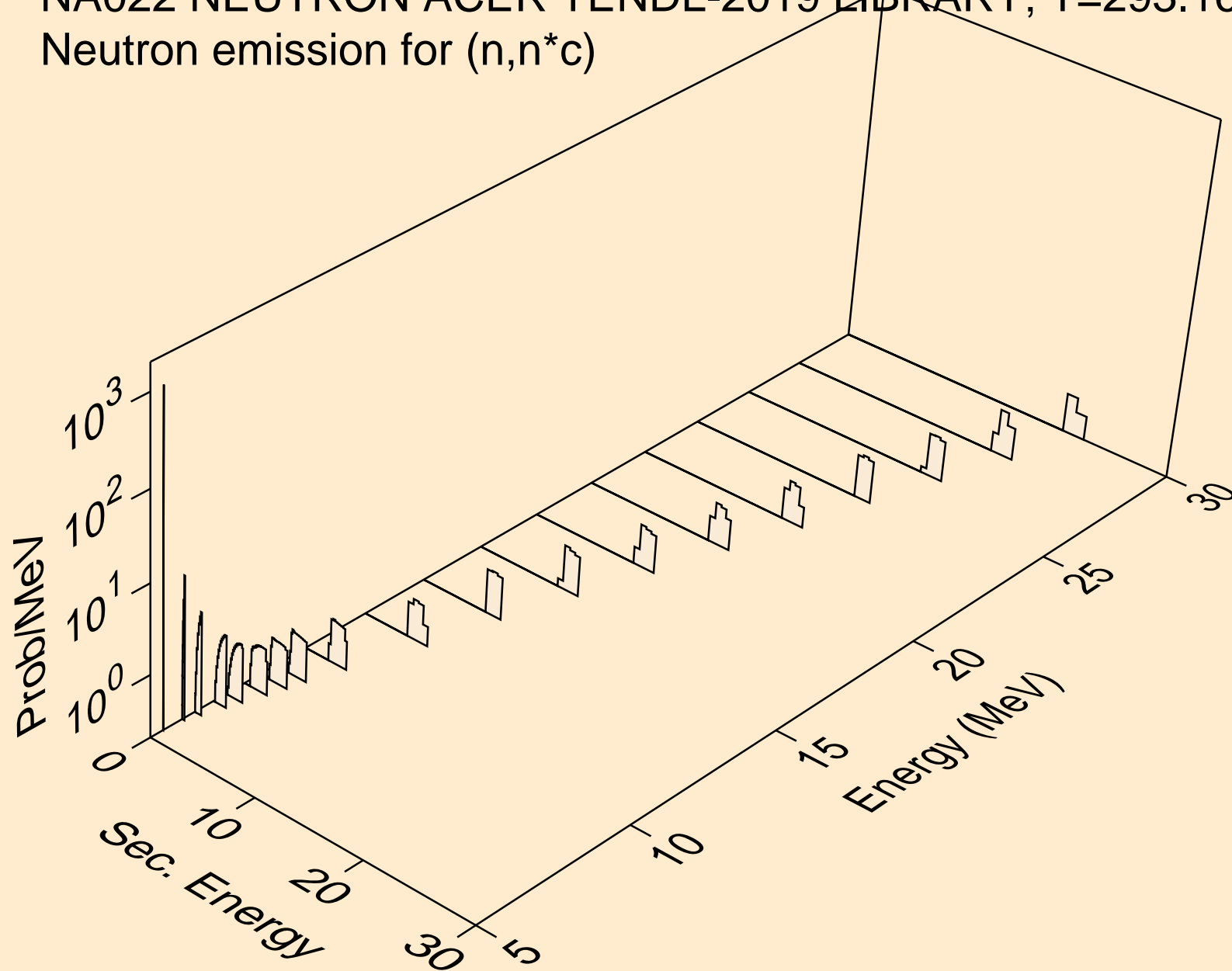
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

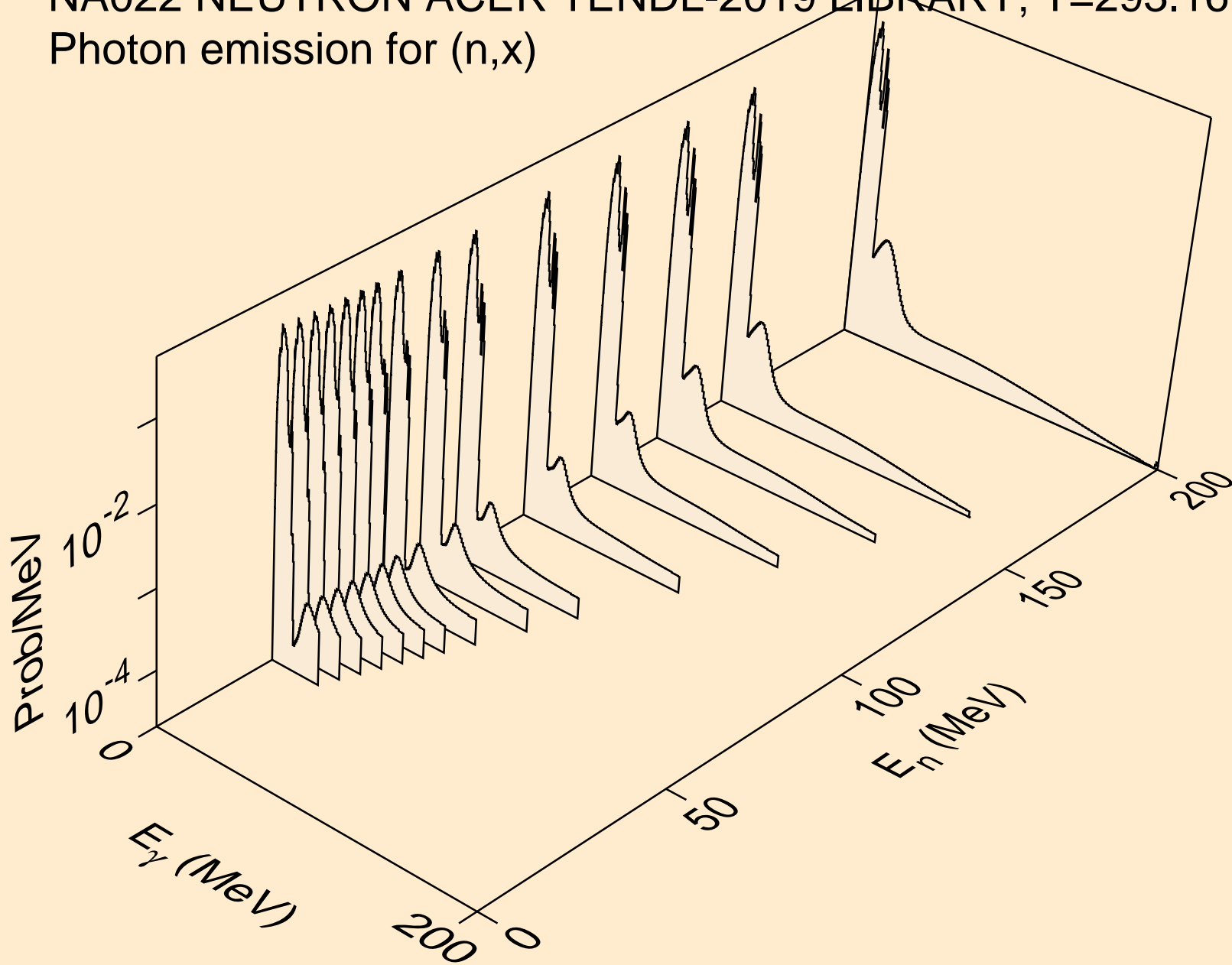


NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)

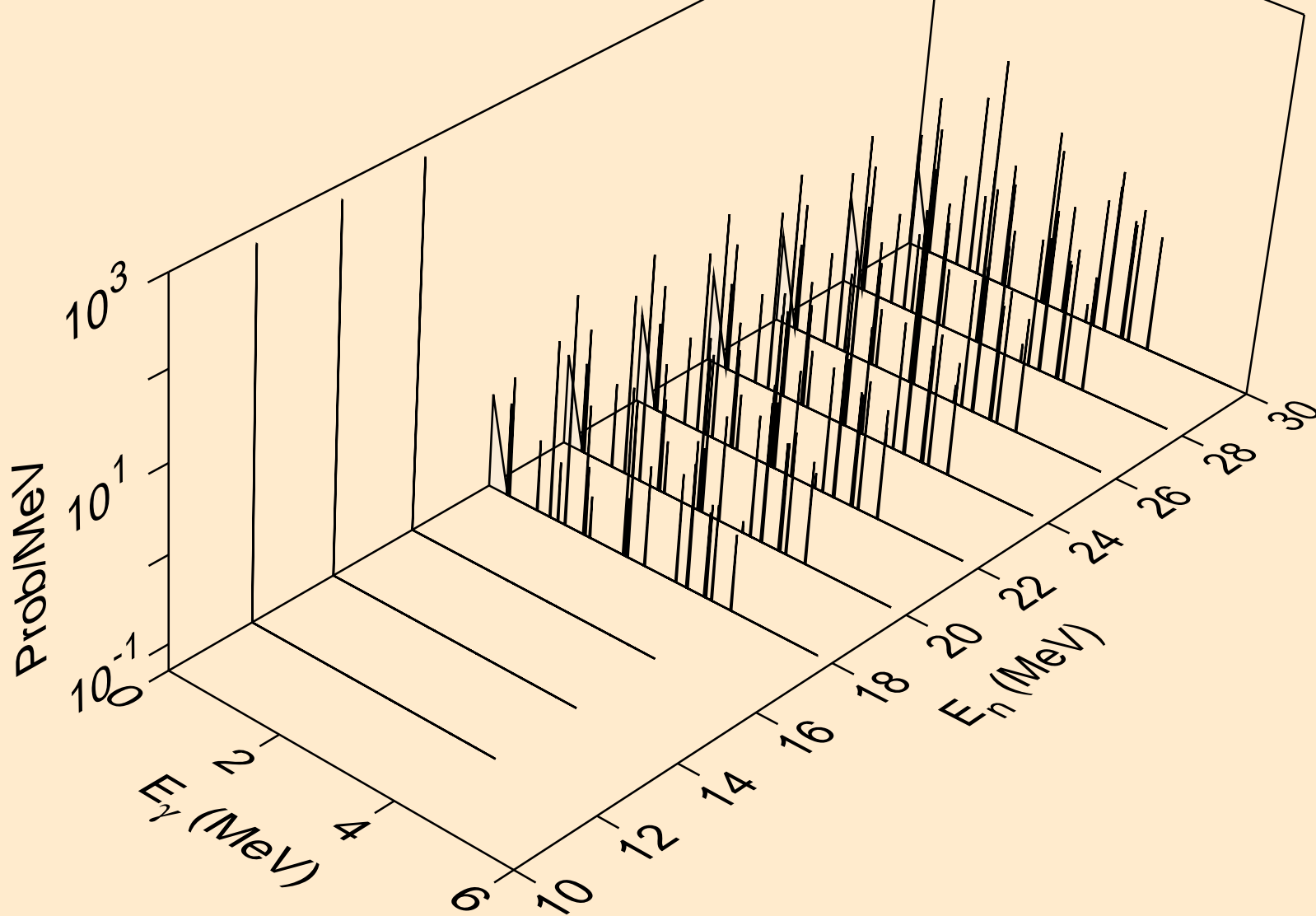




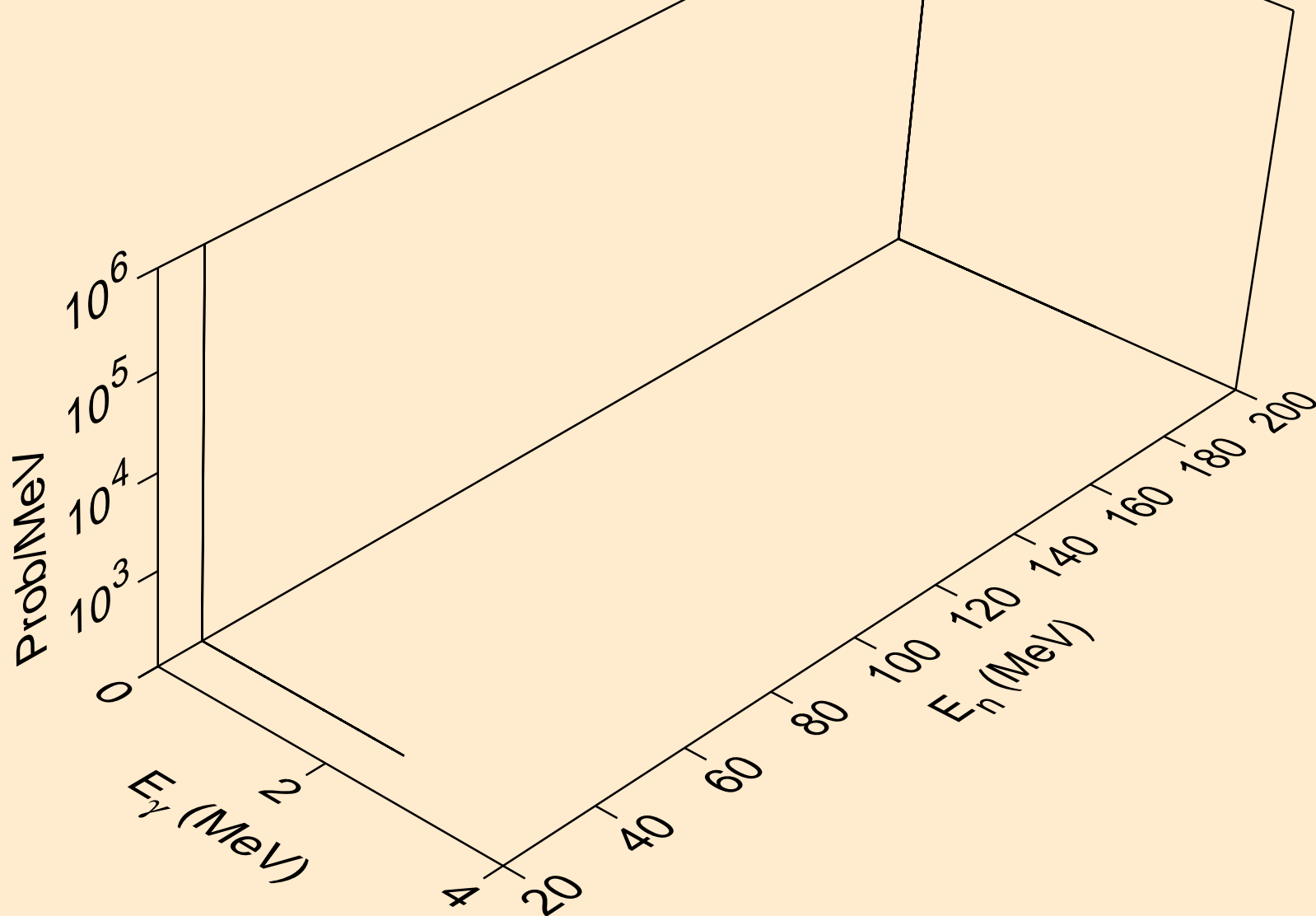
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Photon emission for (n,x)



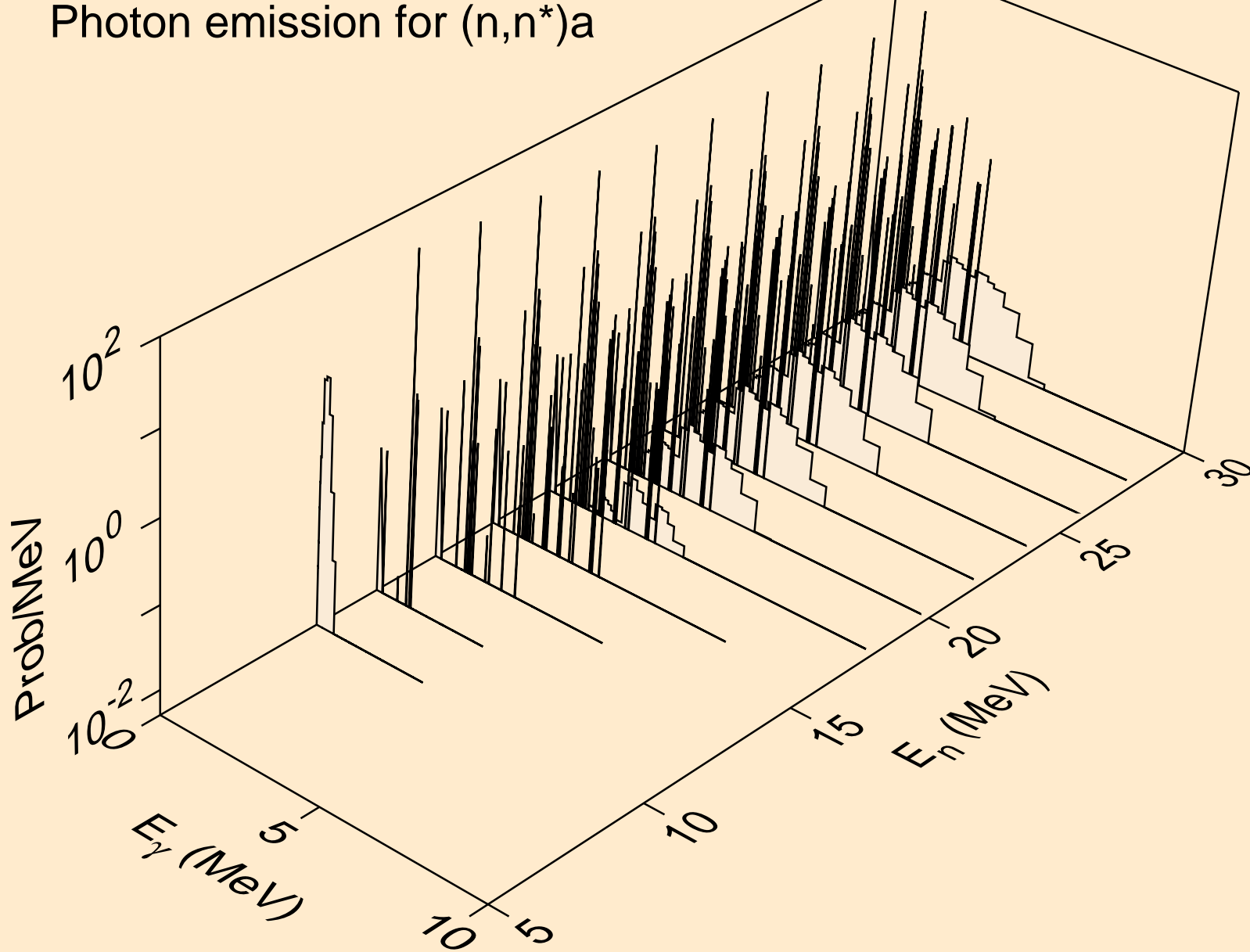
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Photon emission for (n,2n)



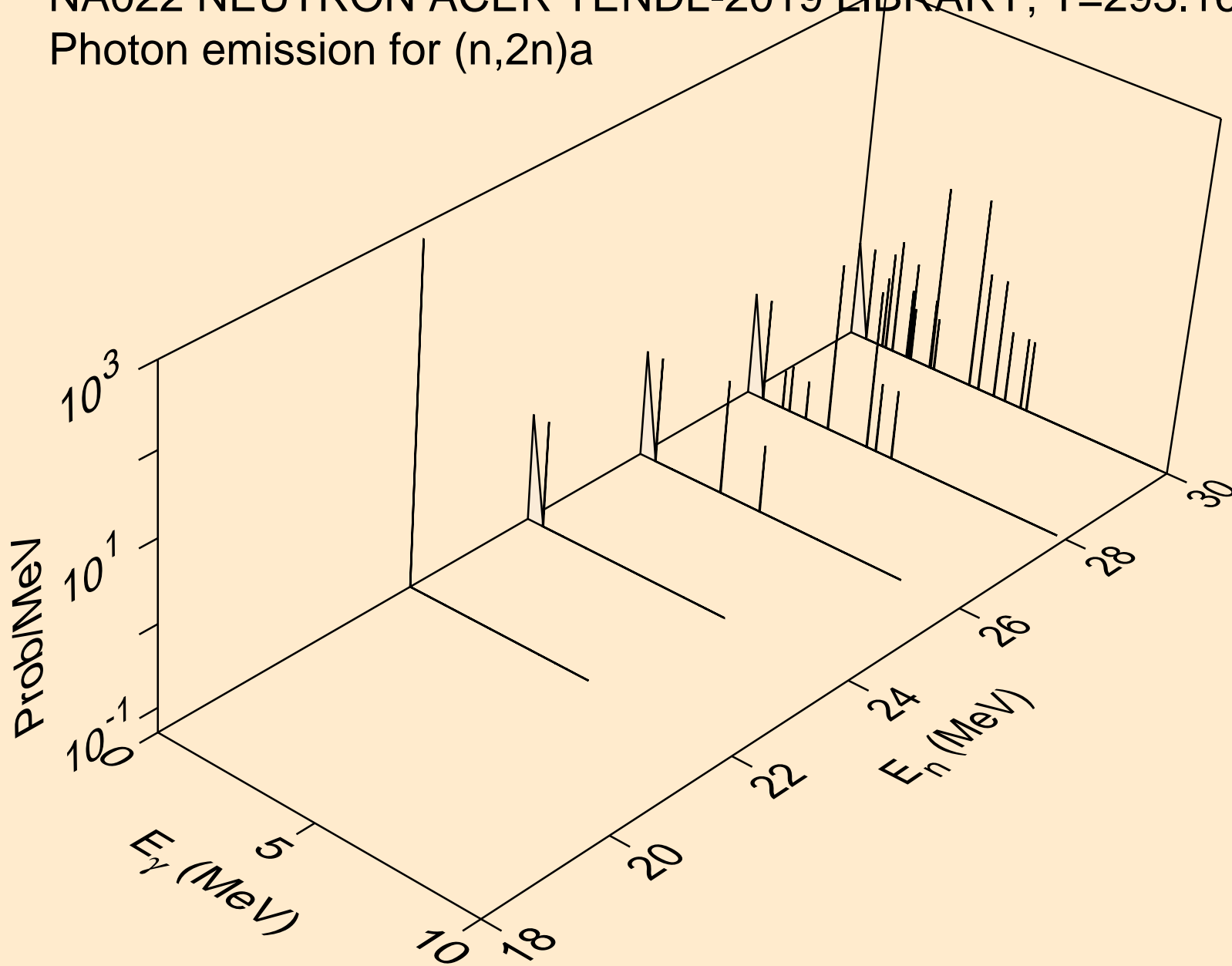
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



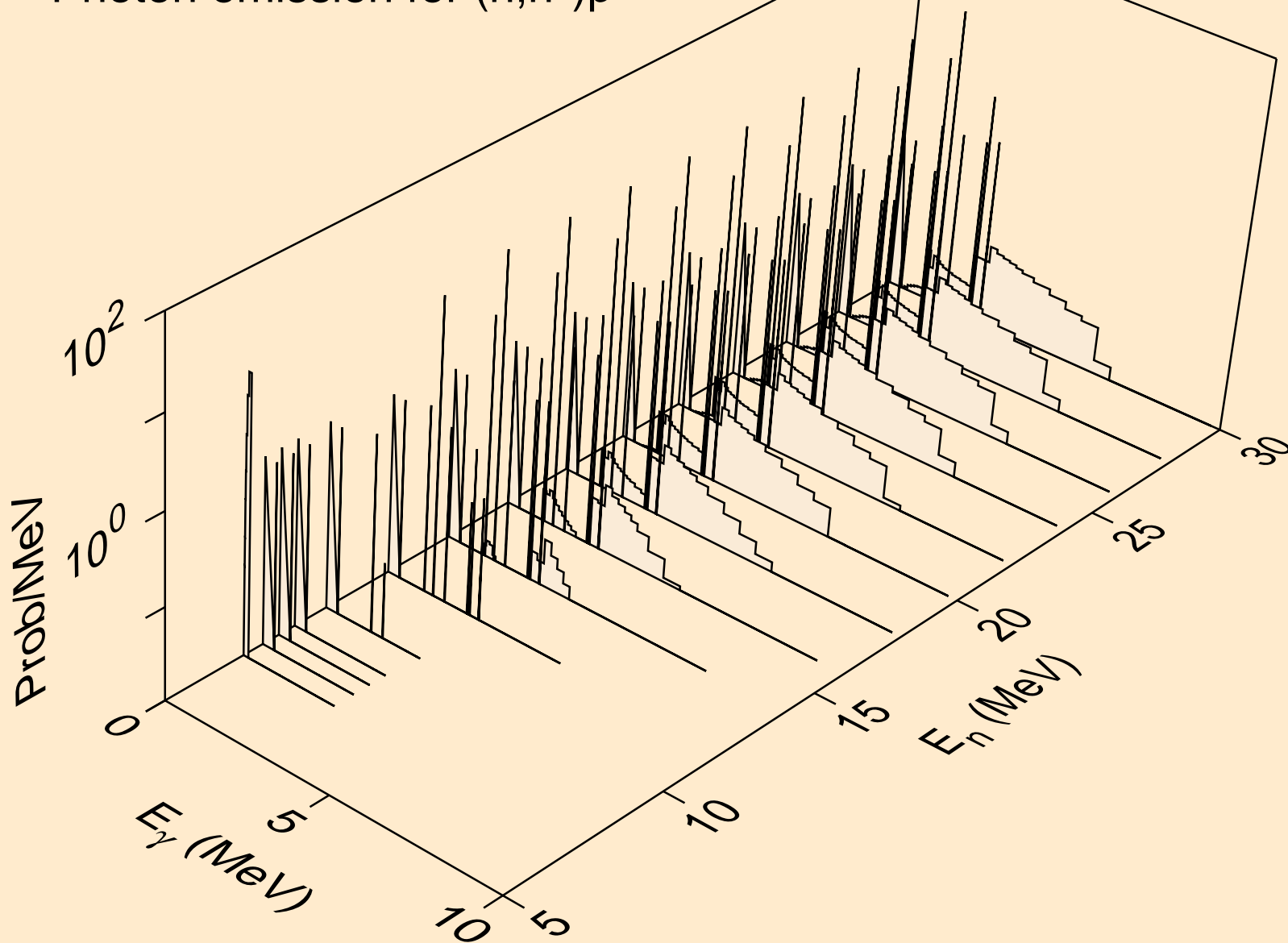
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



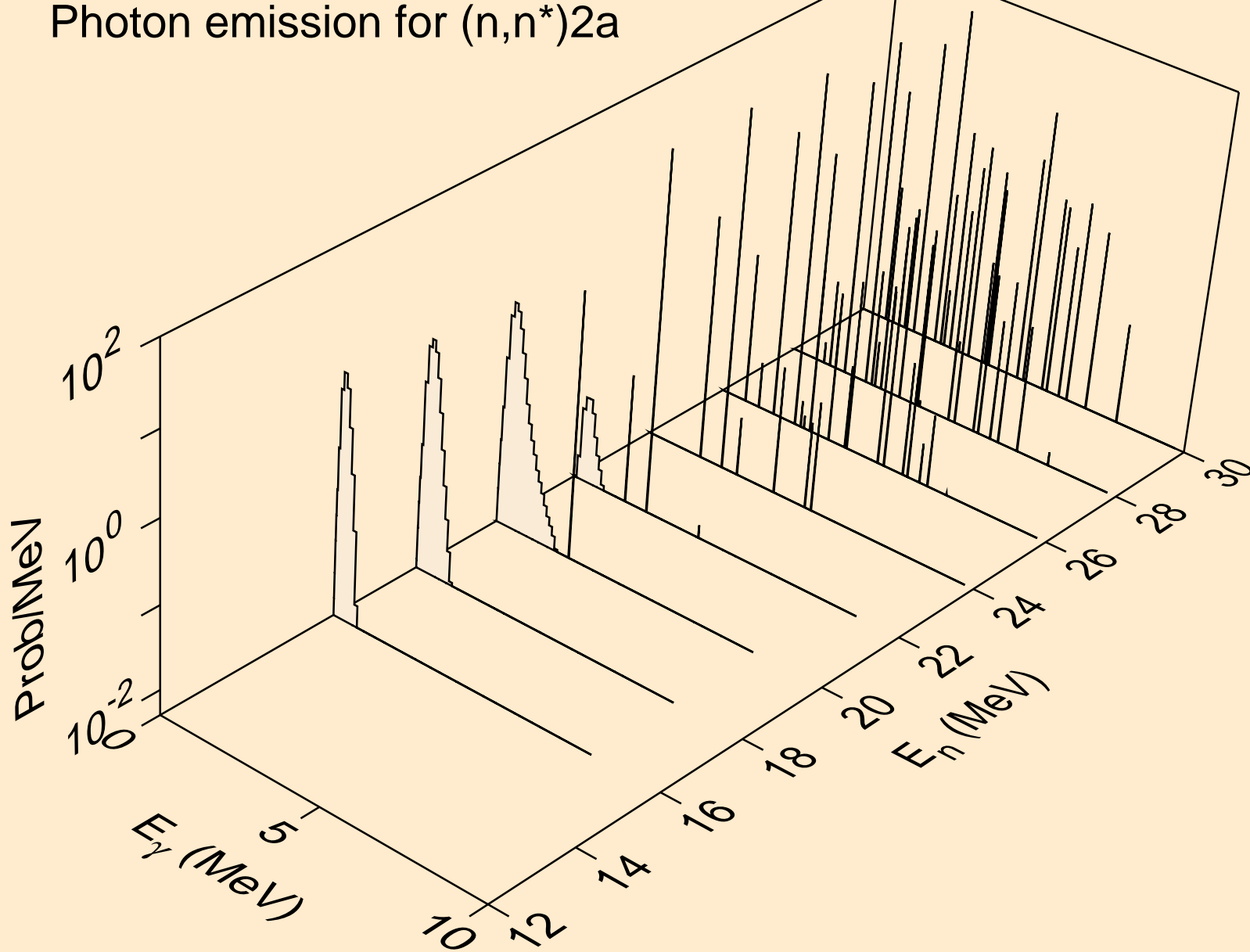
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Photon emission for (n,2n)a



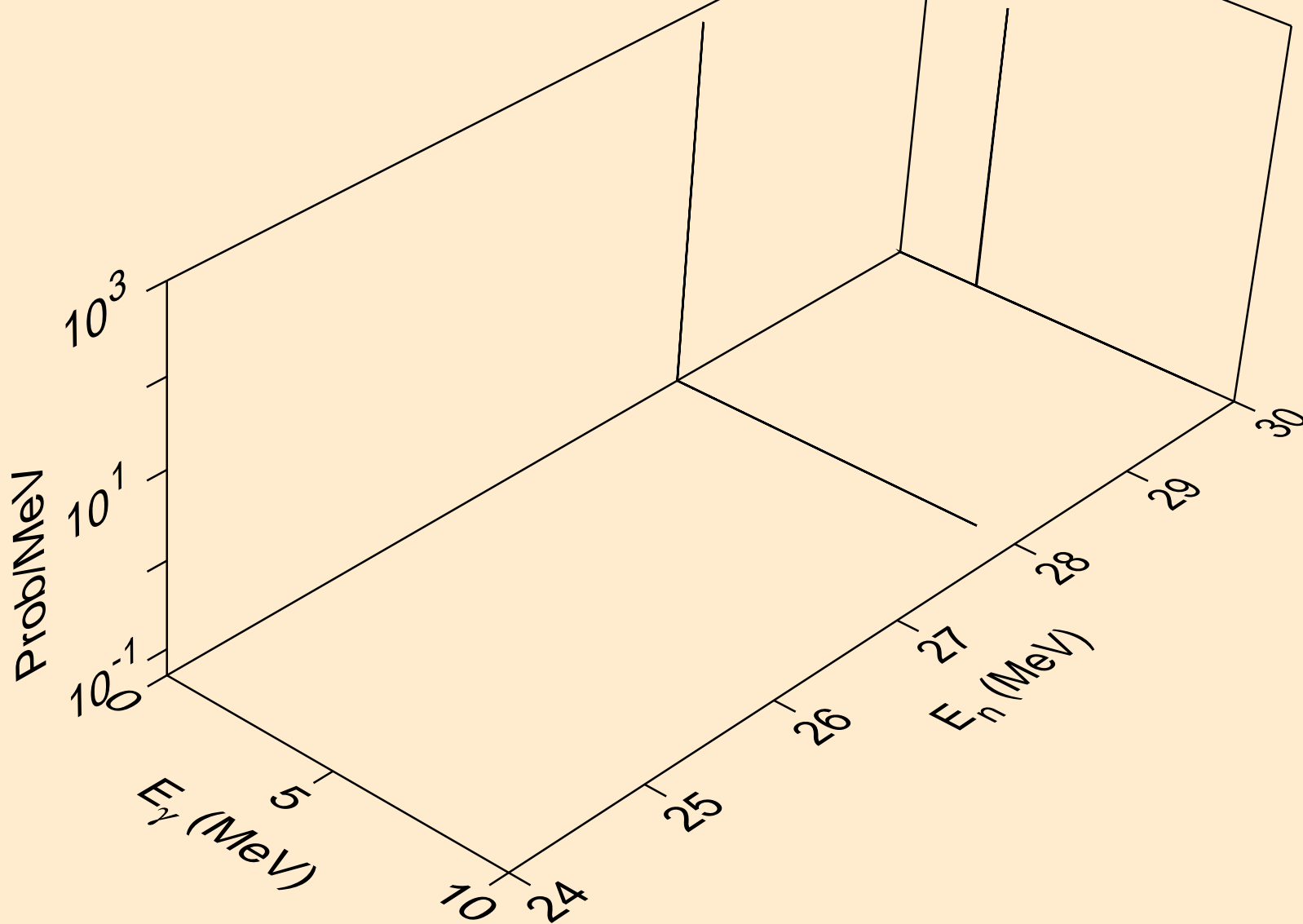
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a

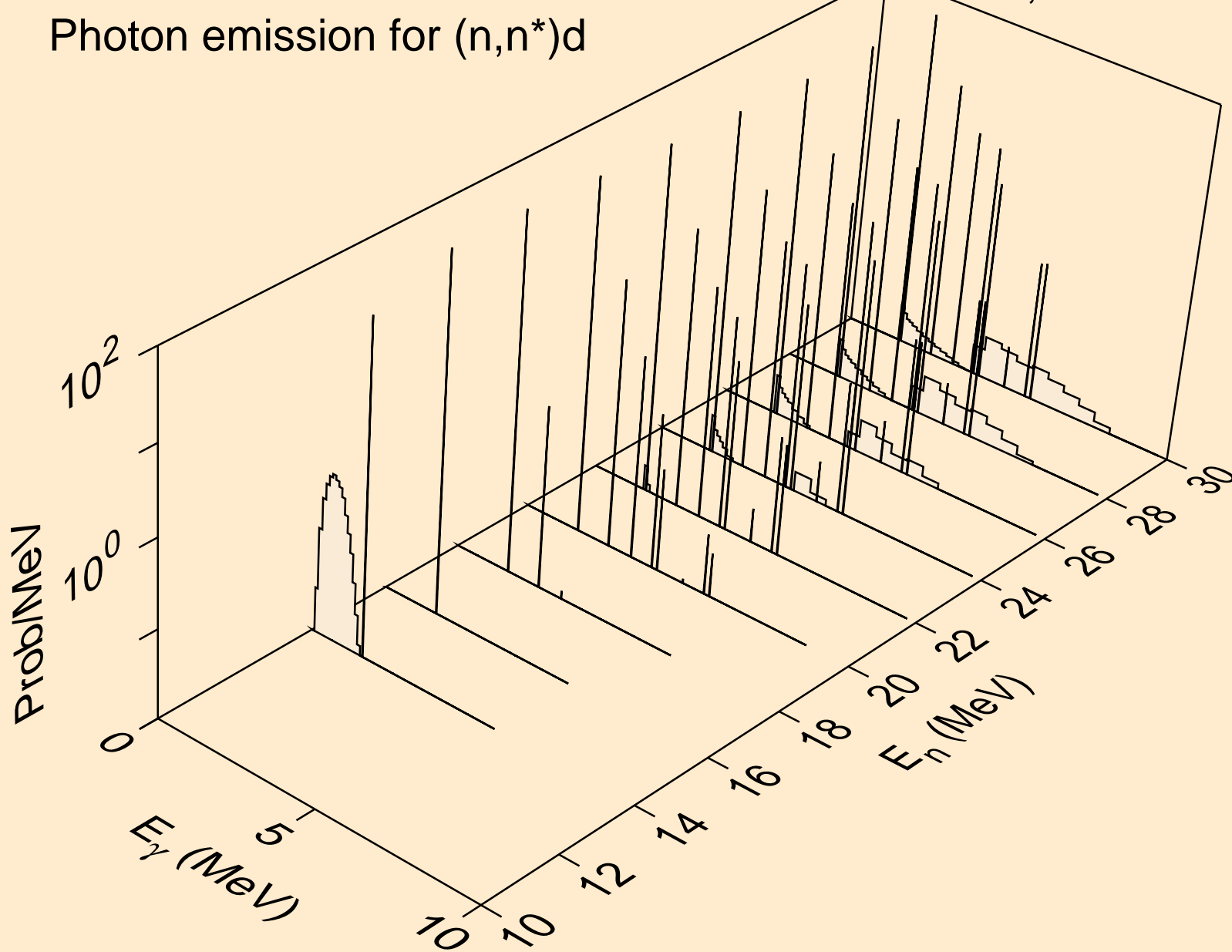


NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)2a

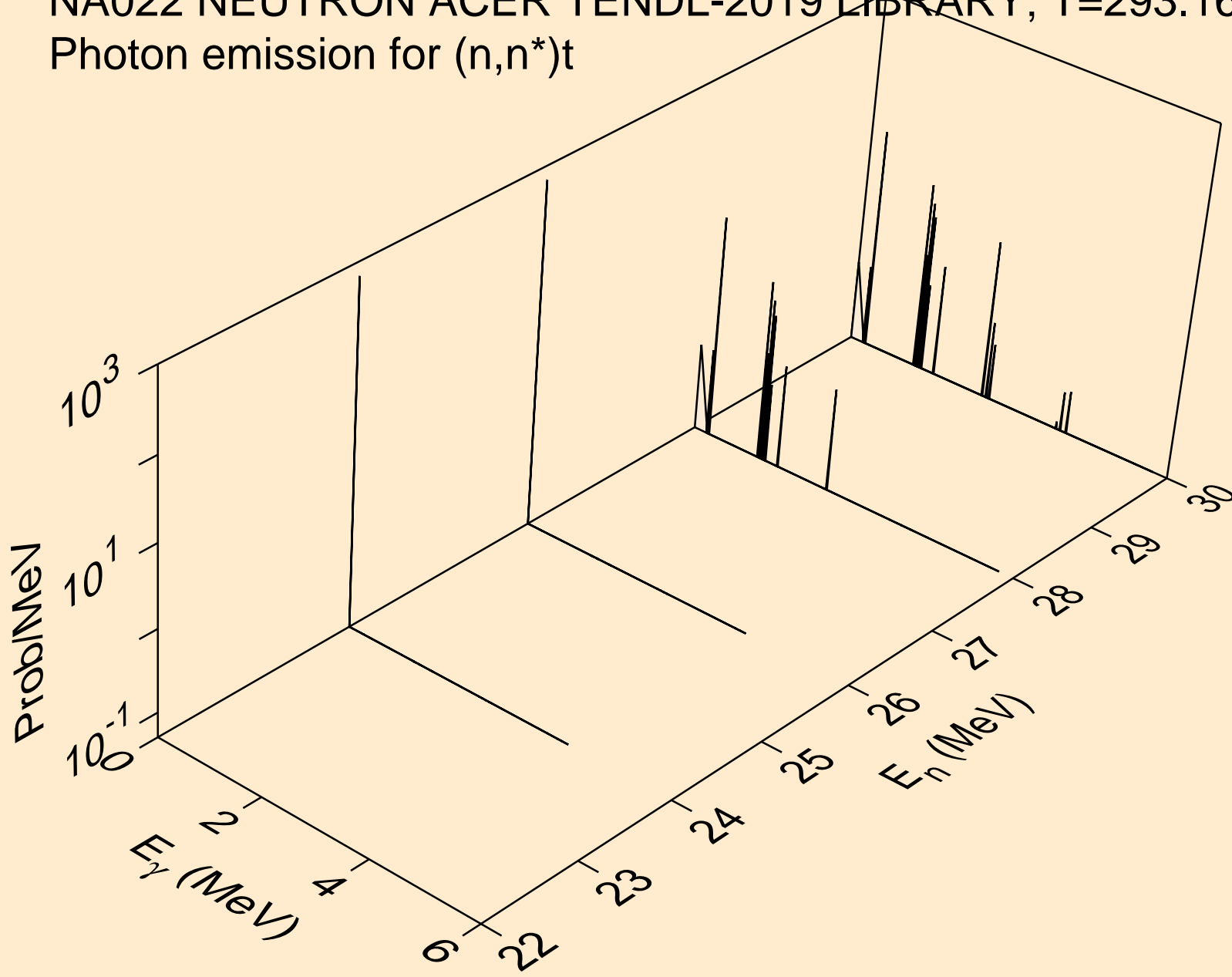




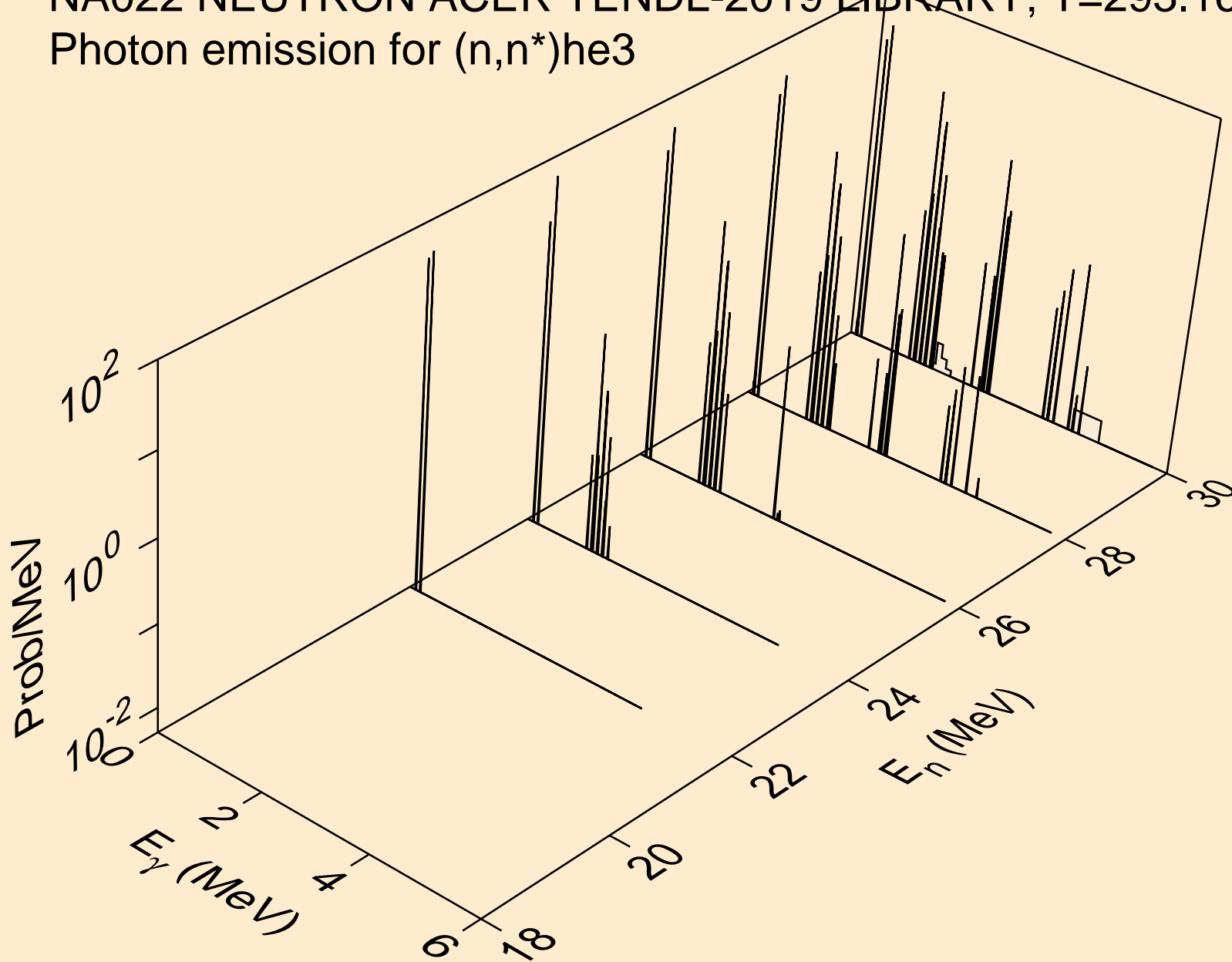
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



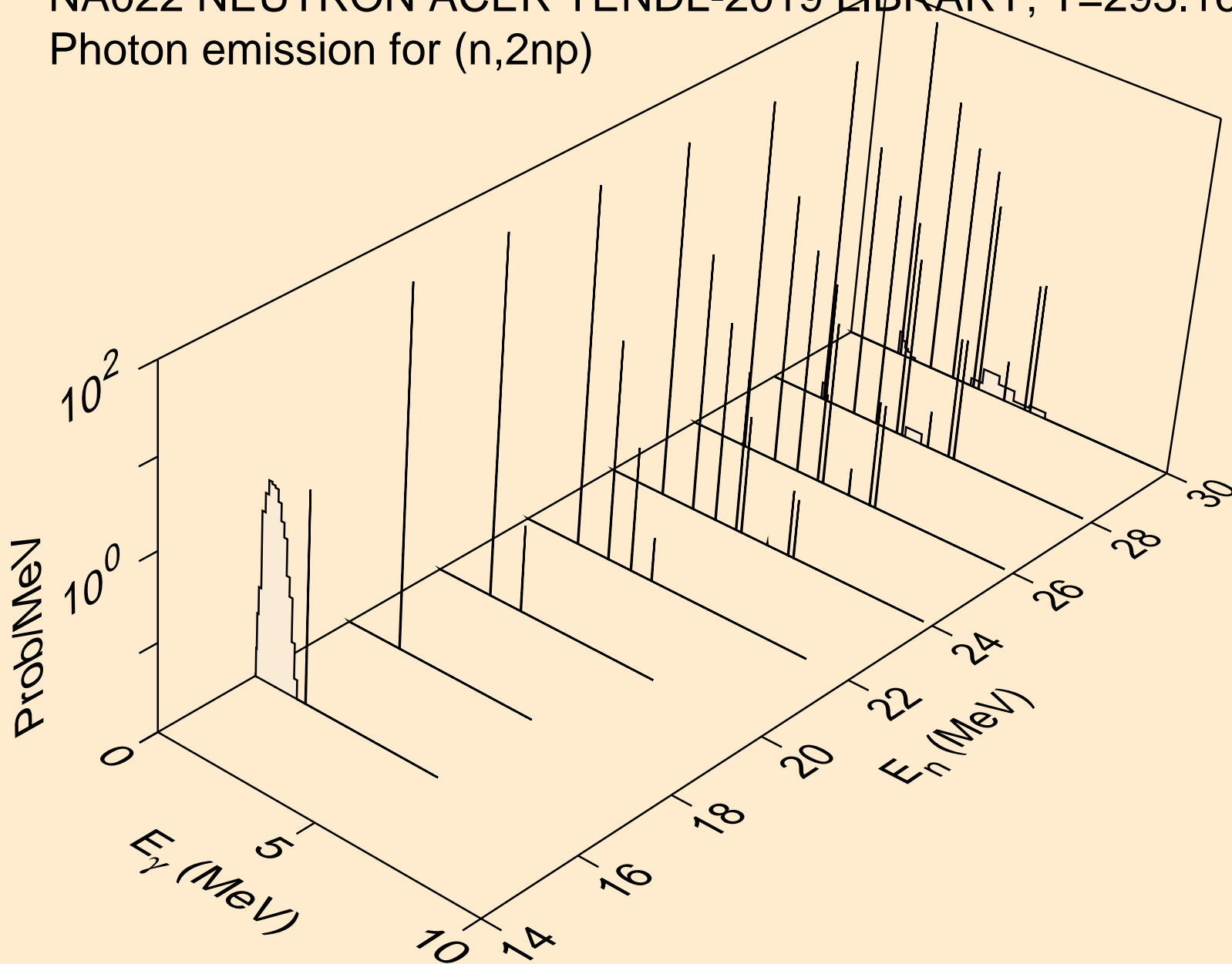
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Photon emission for (n,n\*)t



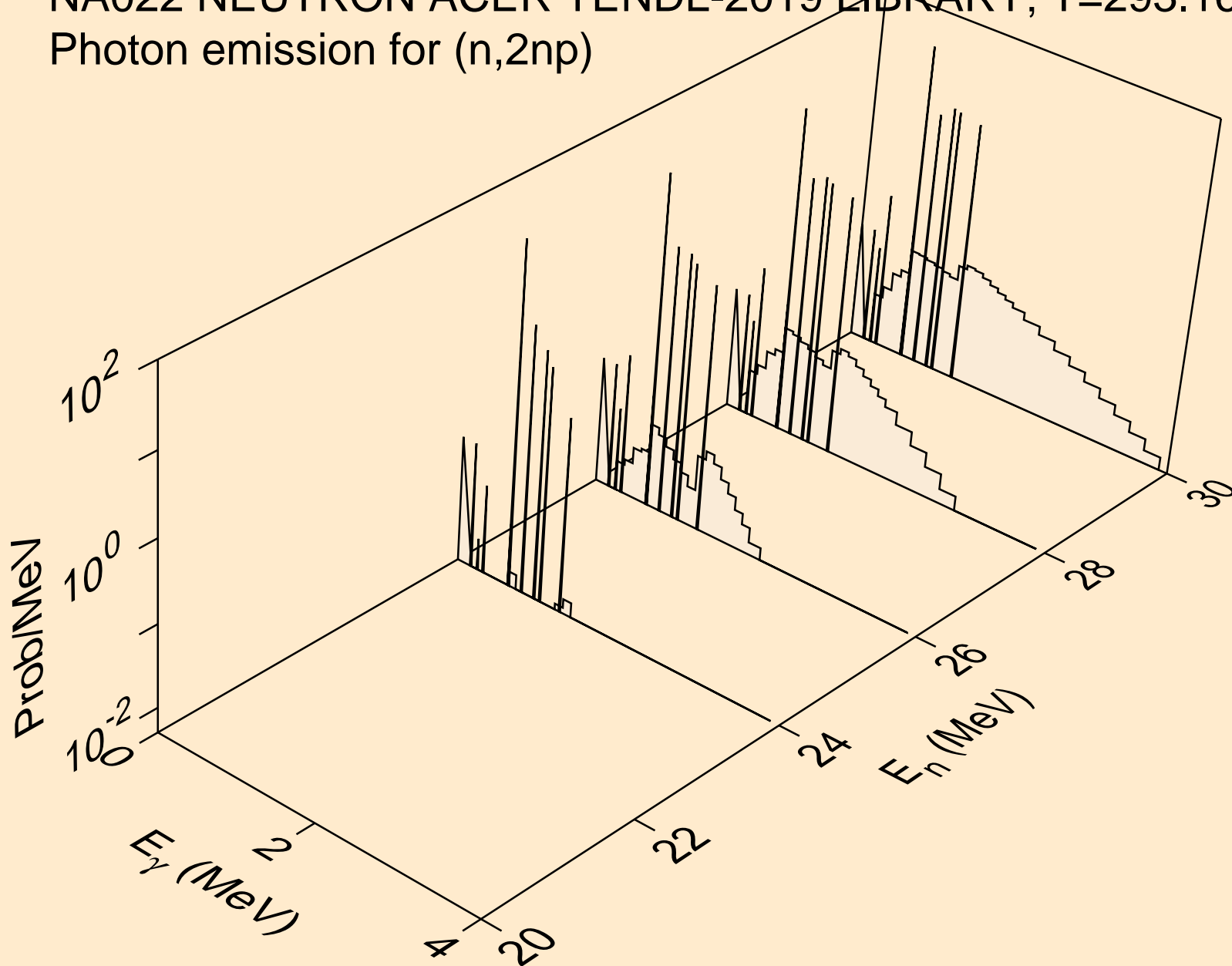
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



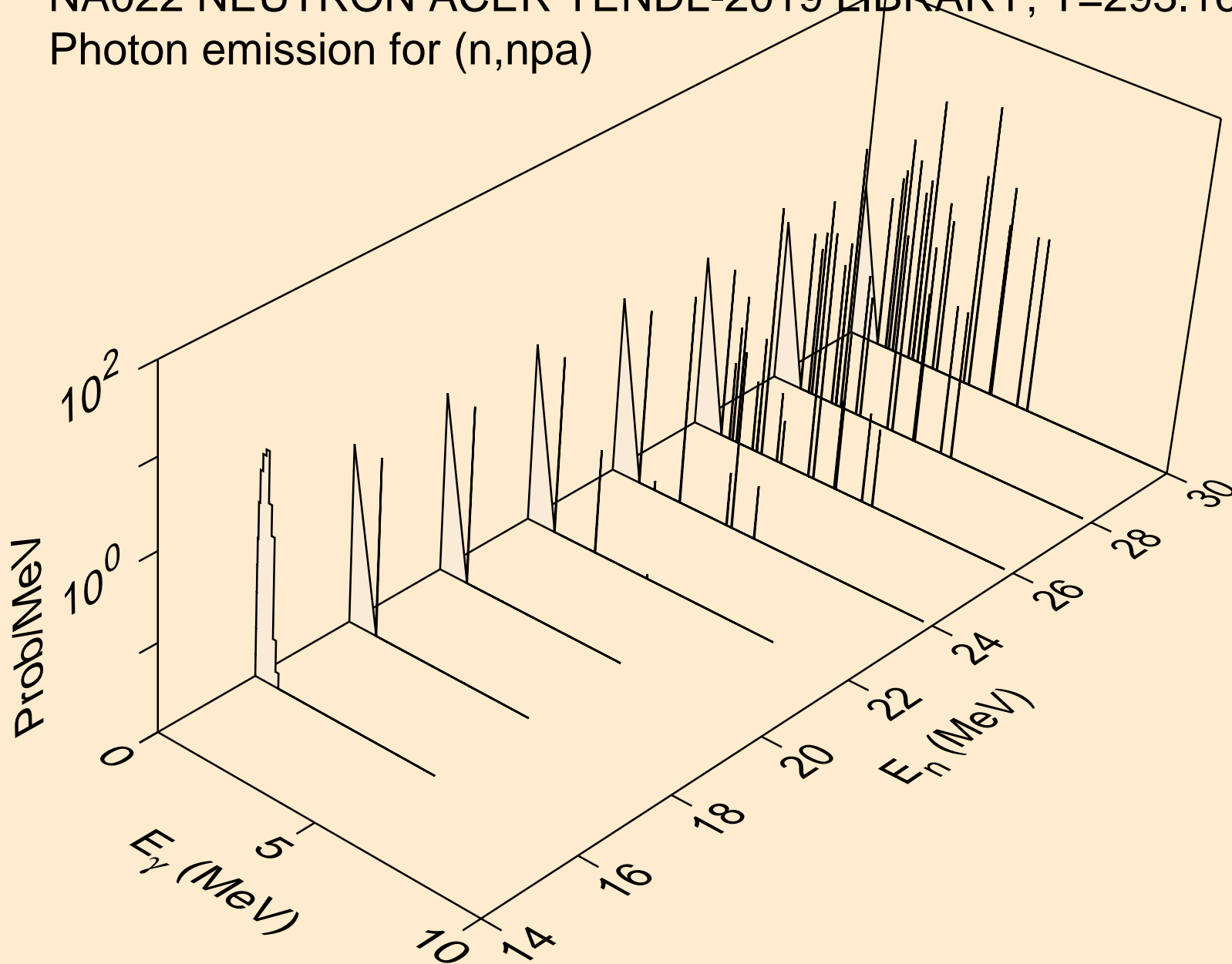
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Photon emission for (n,2np)



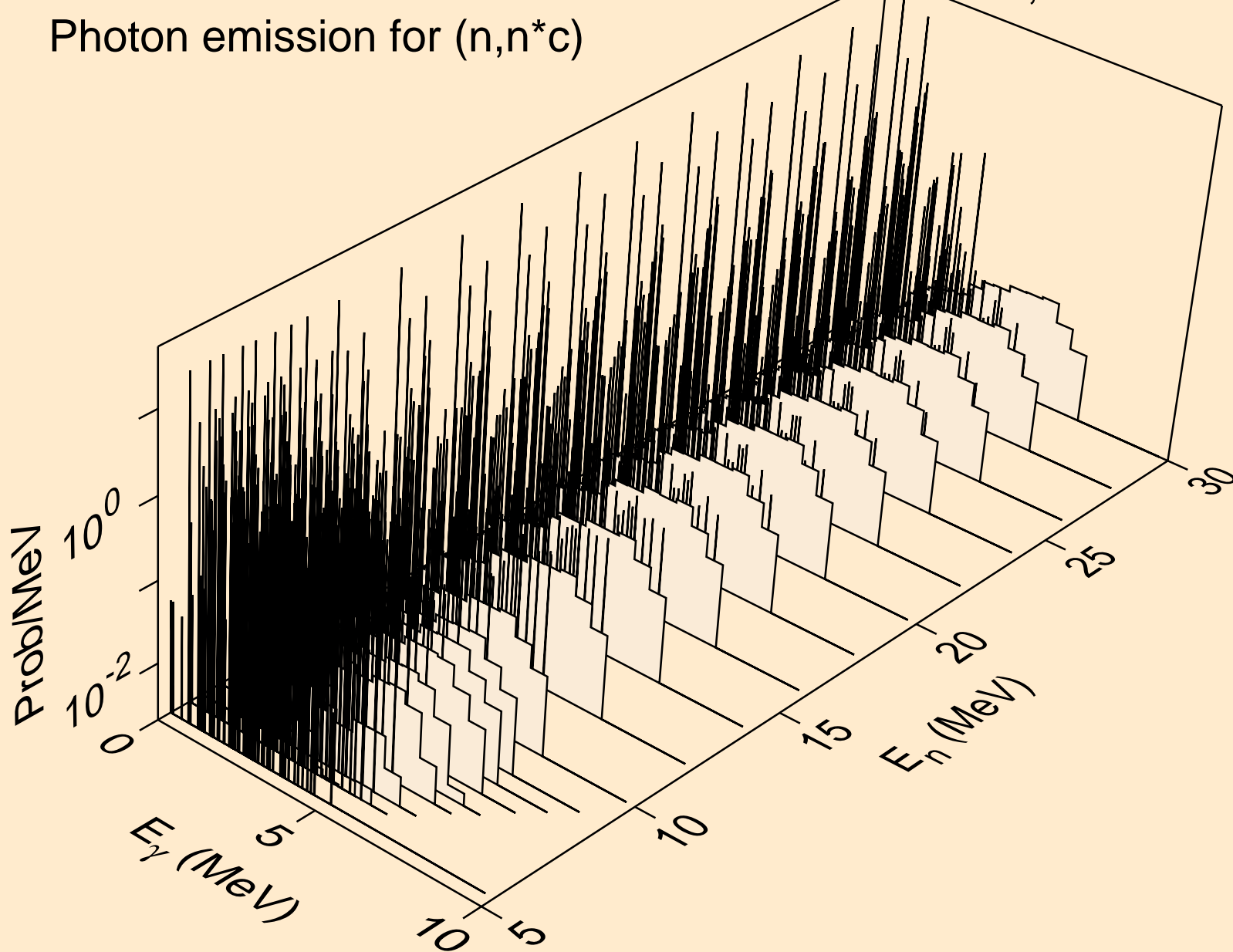
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Photon emission for (n,2np)



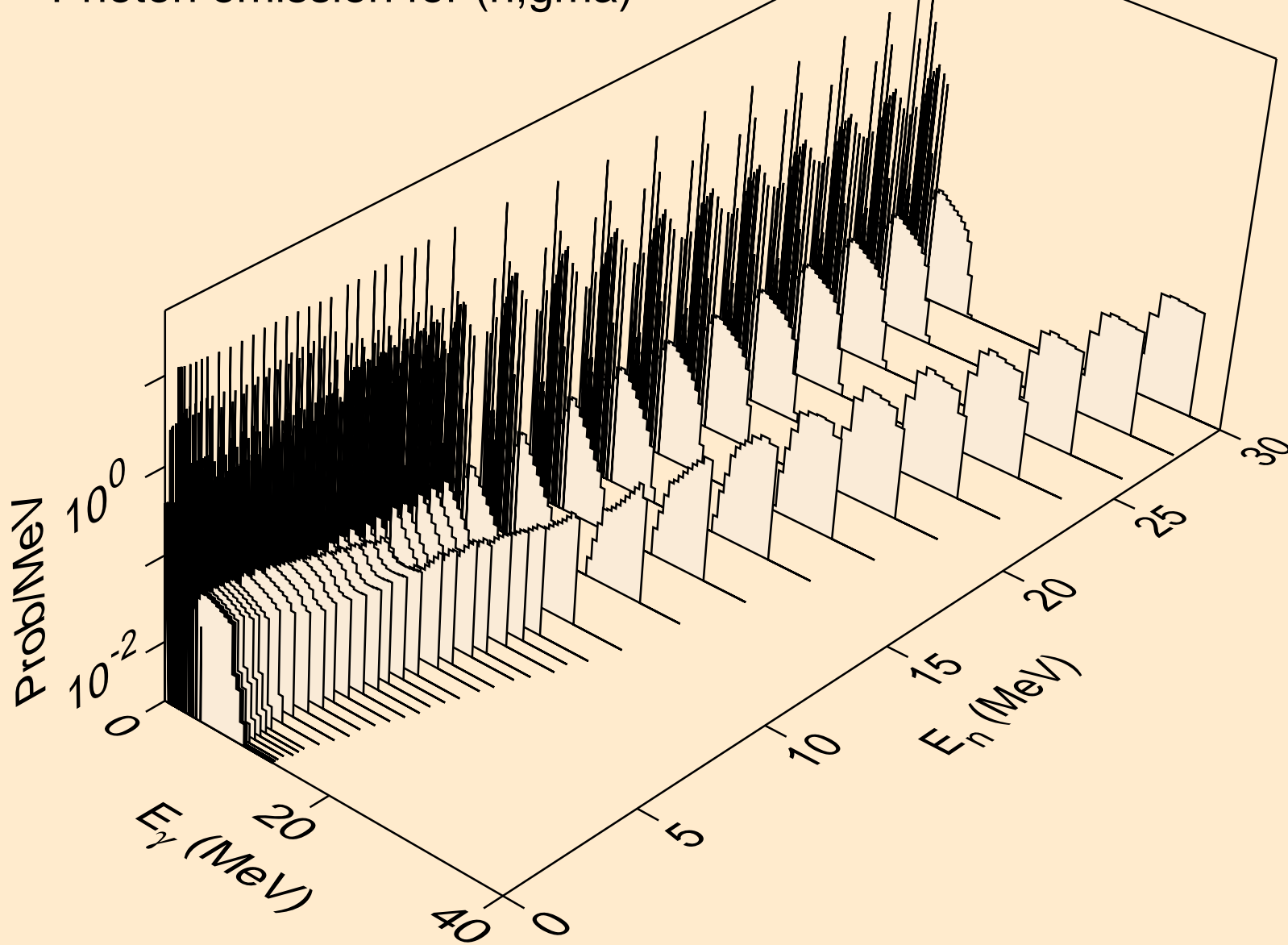
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

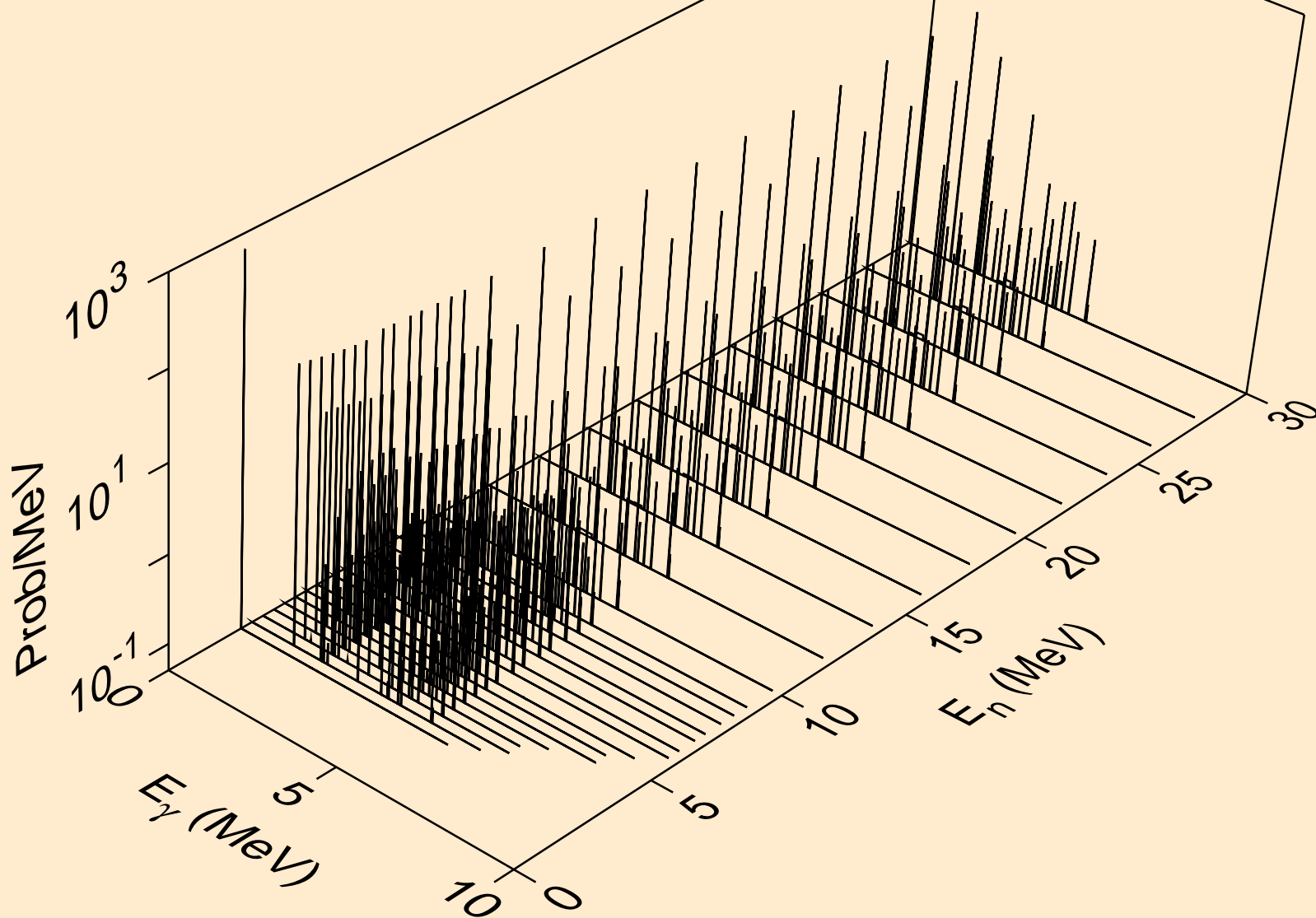


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Photon emission for (n,gma)

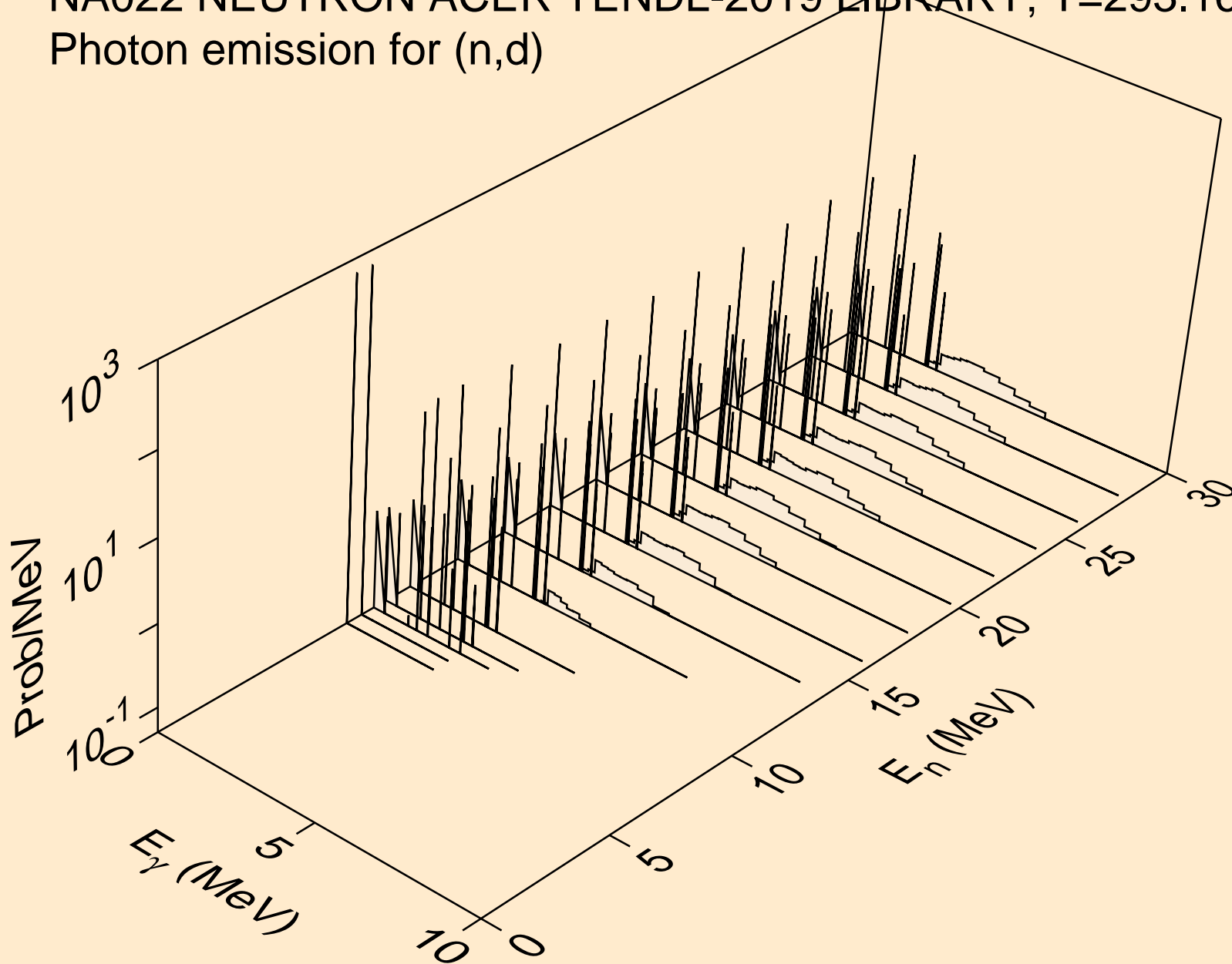




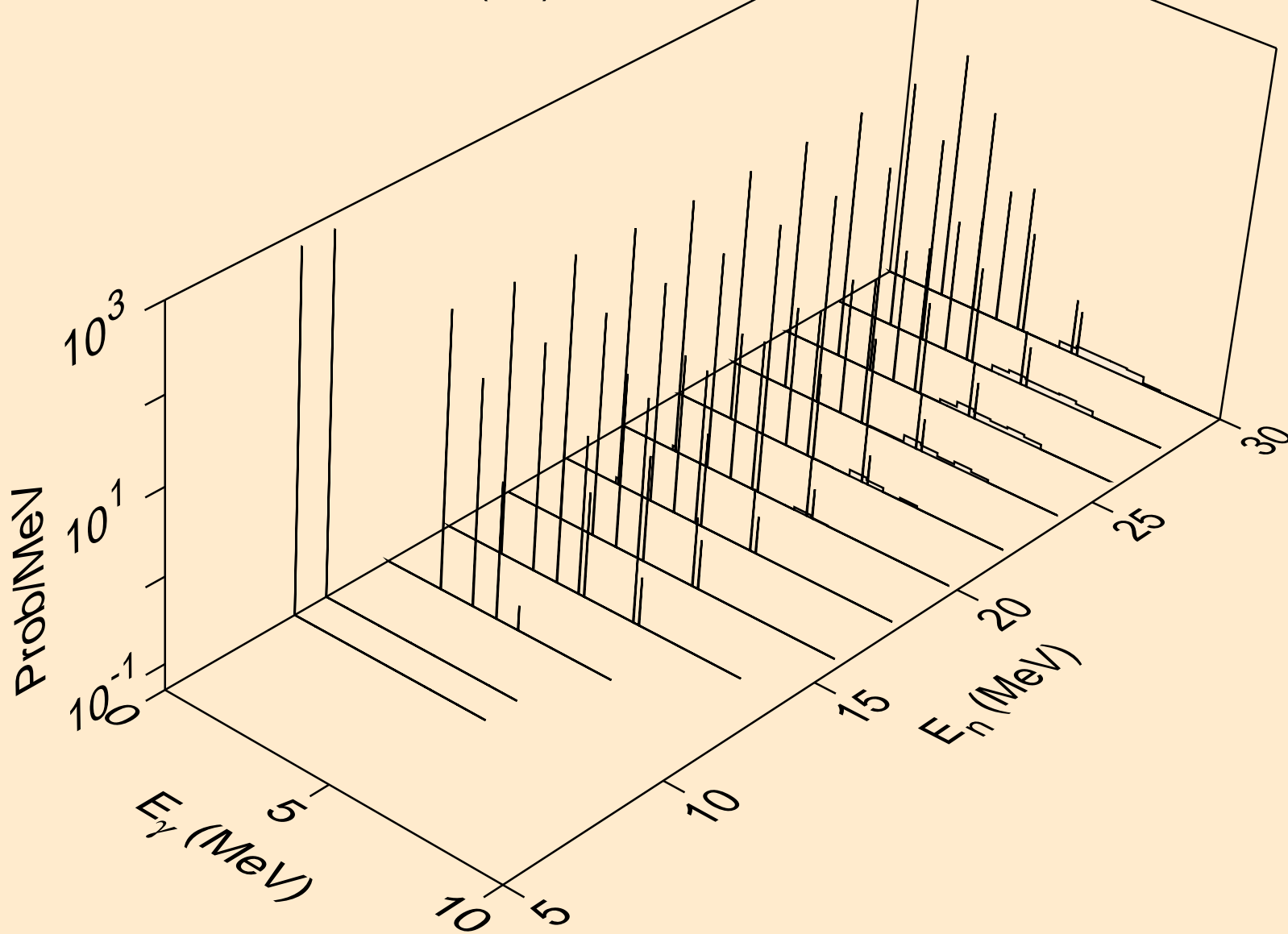
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Photon emission for (n,p)



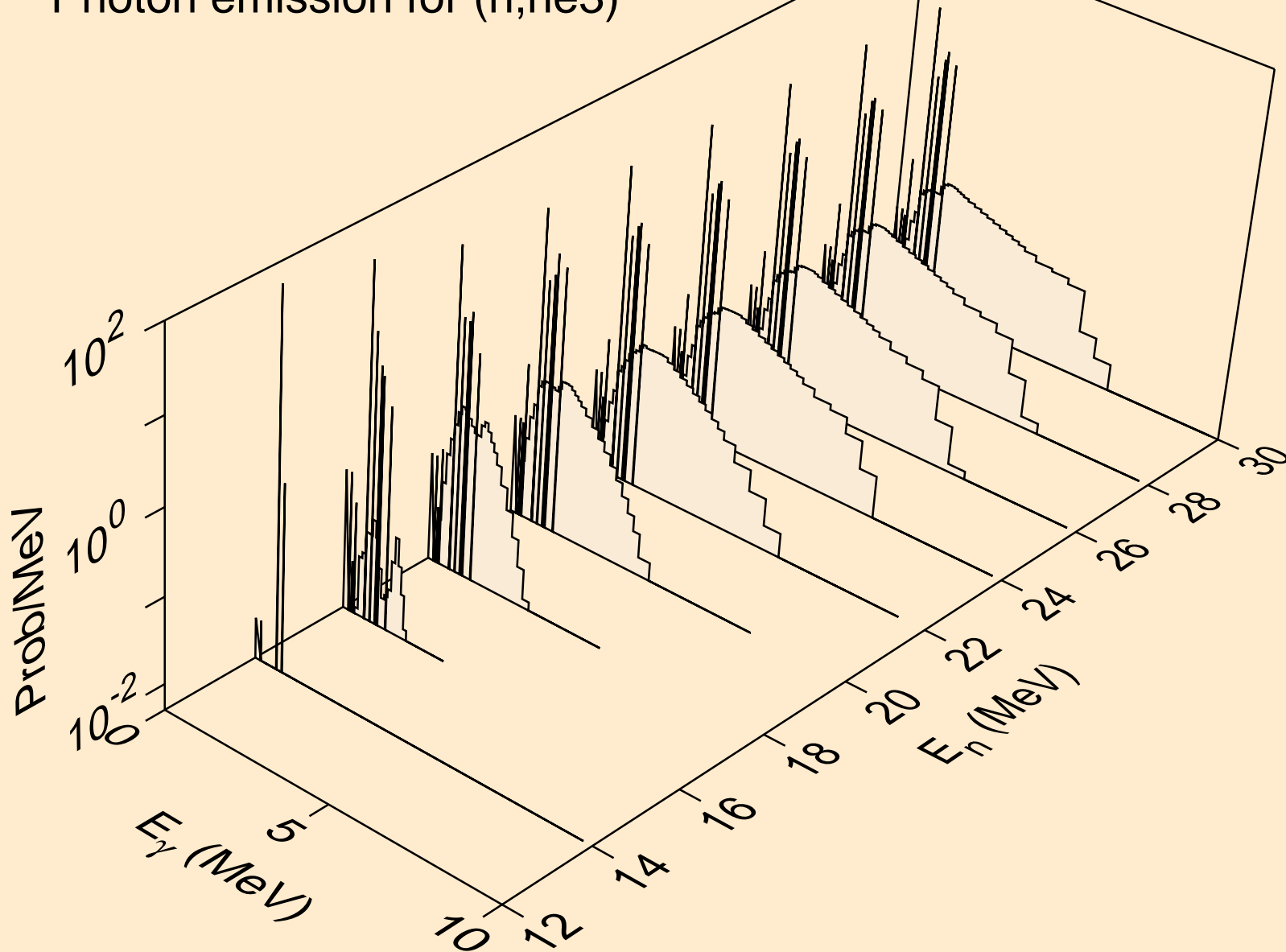
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Photon emission for (n,d)



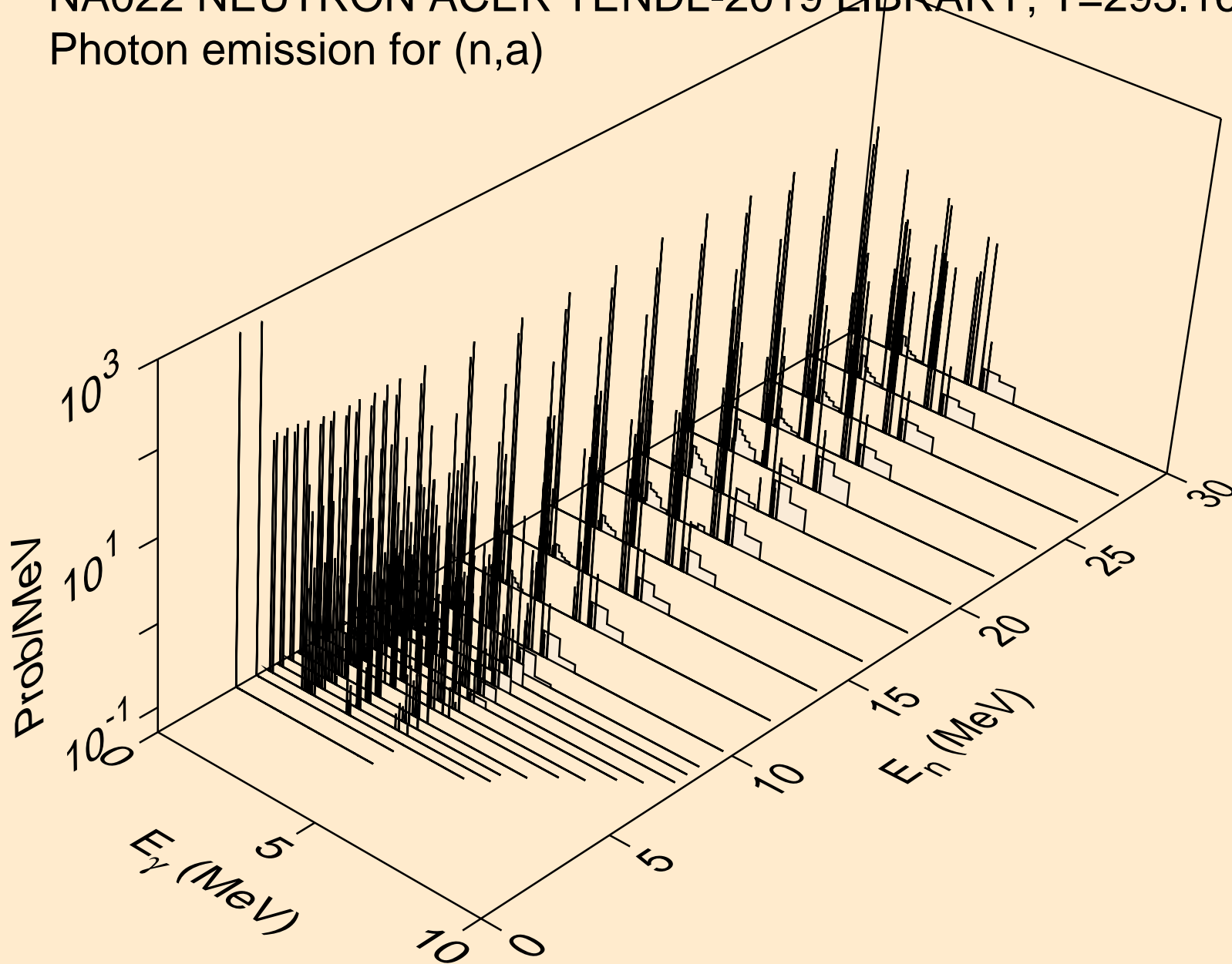
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Photon emission for (n,t)



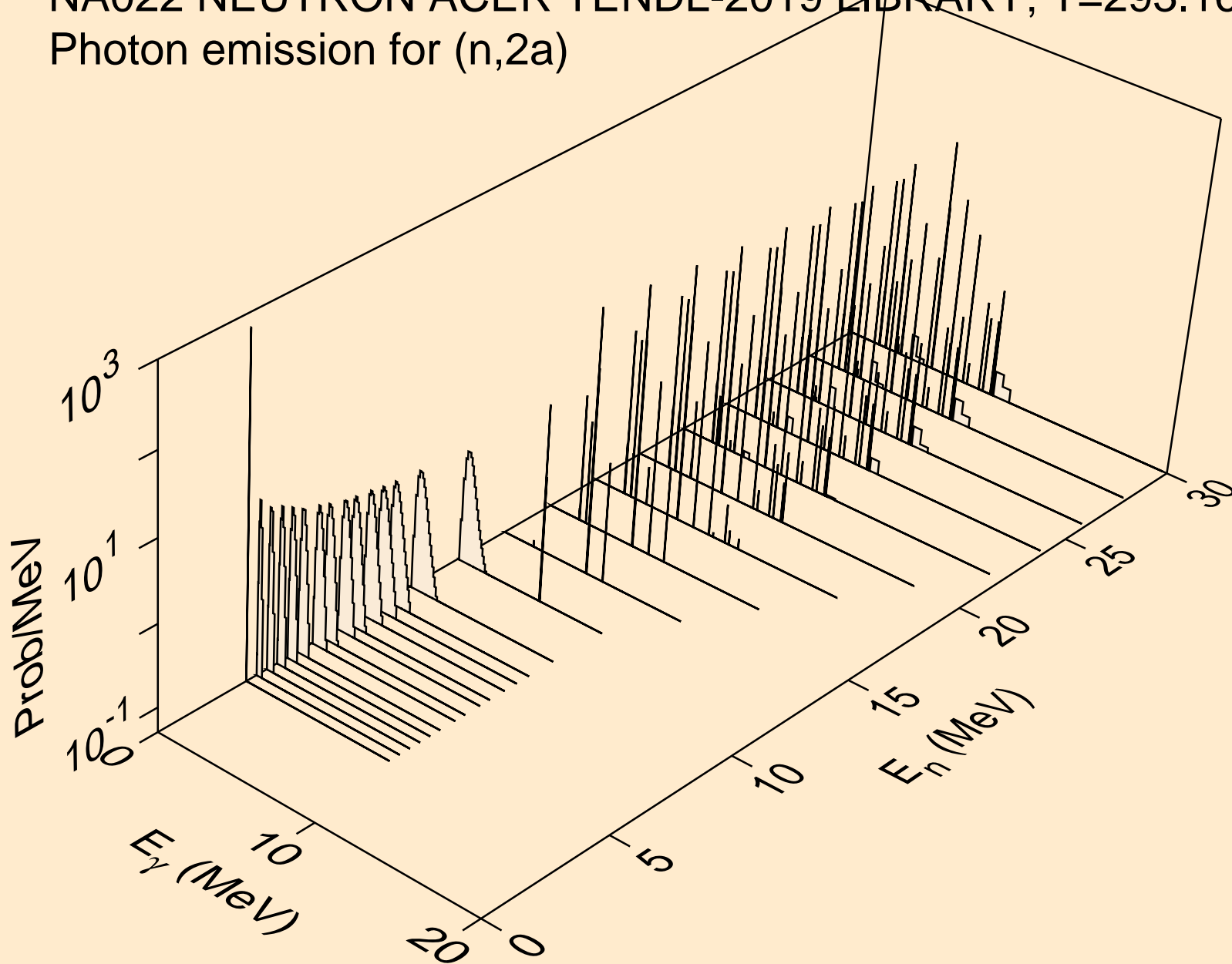
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Photon emission for (n,he3)



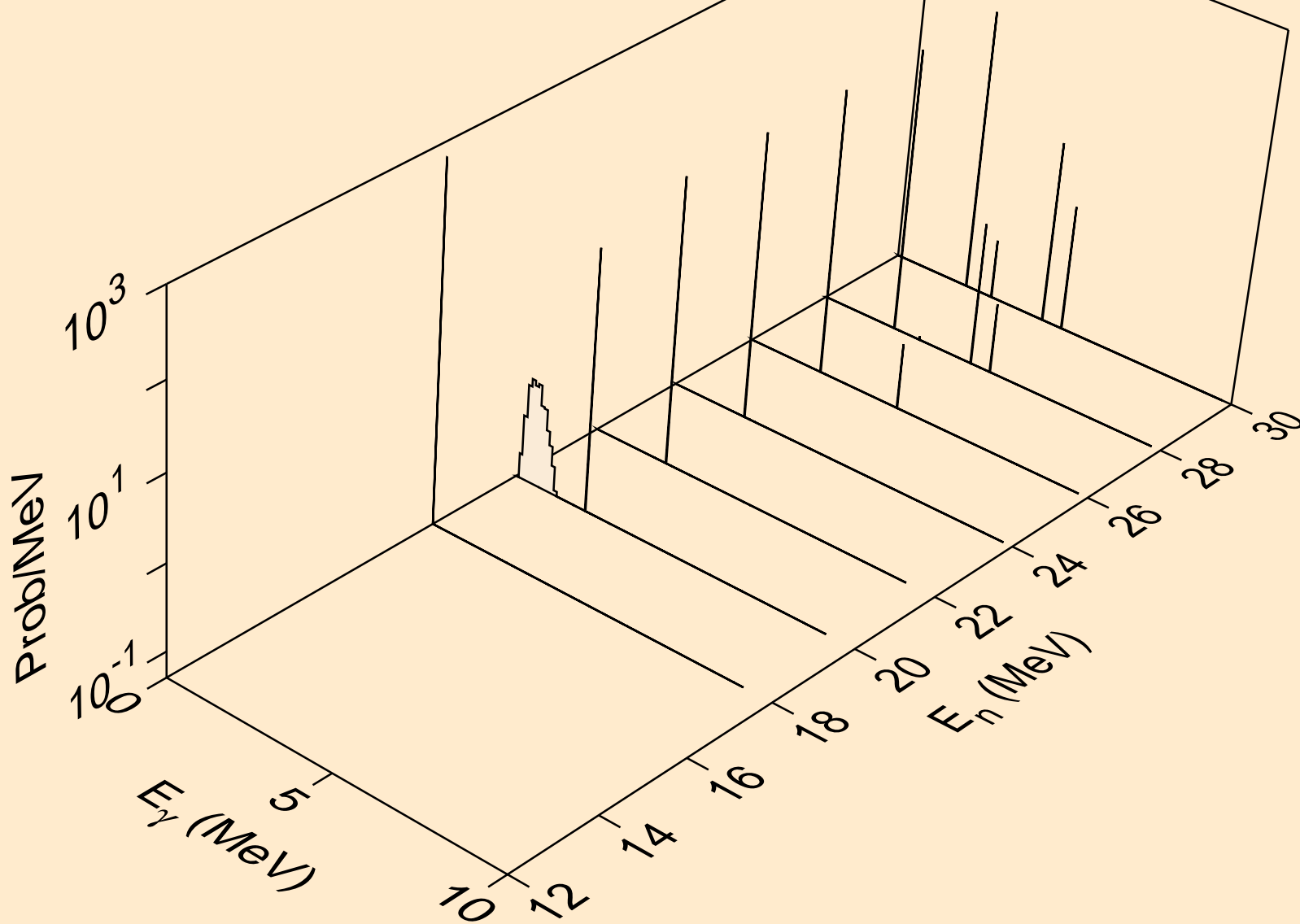
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Photon emission for (n,a)



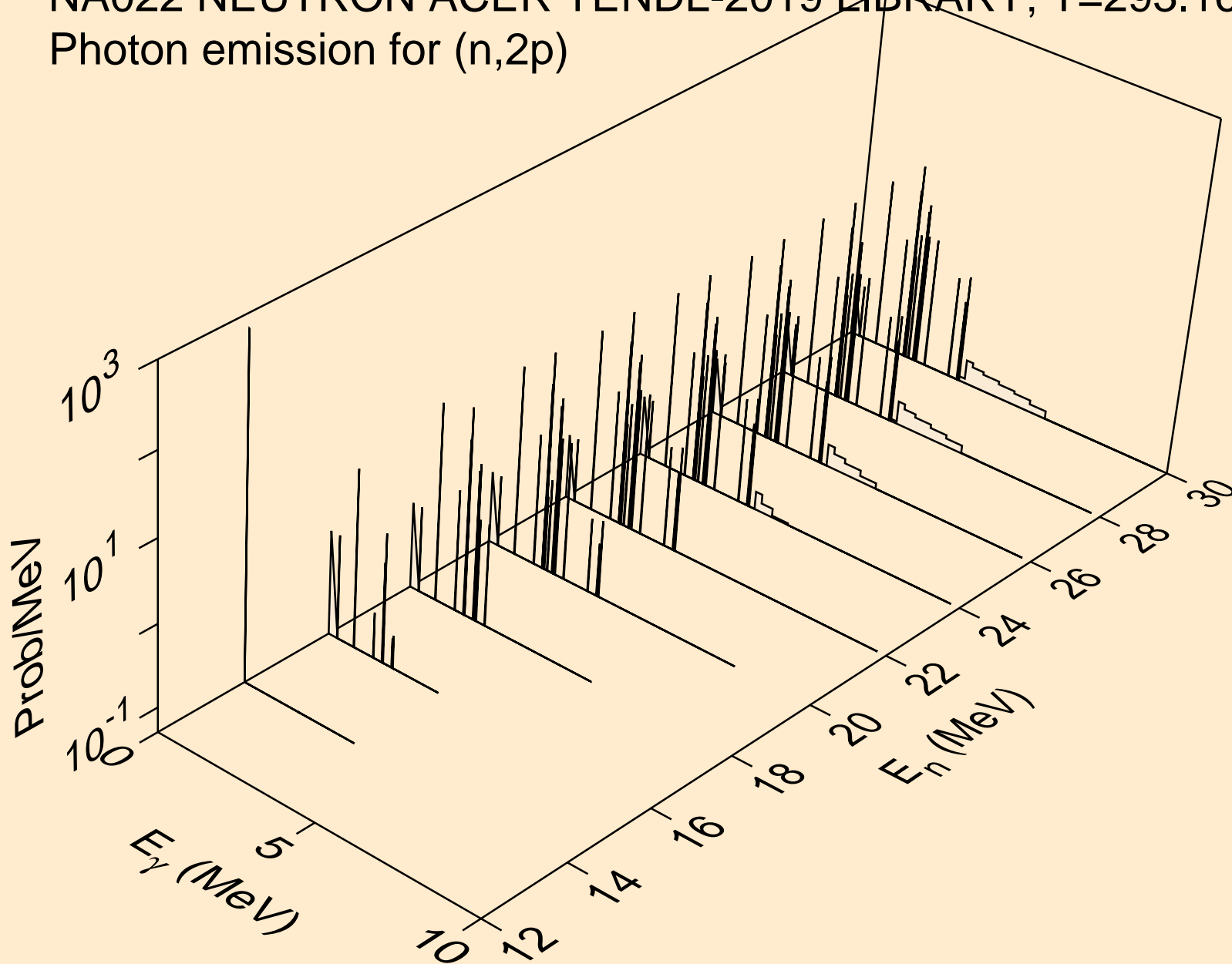
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3a)

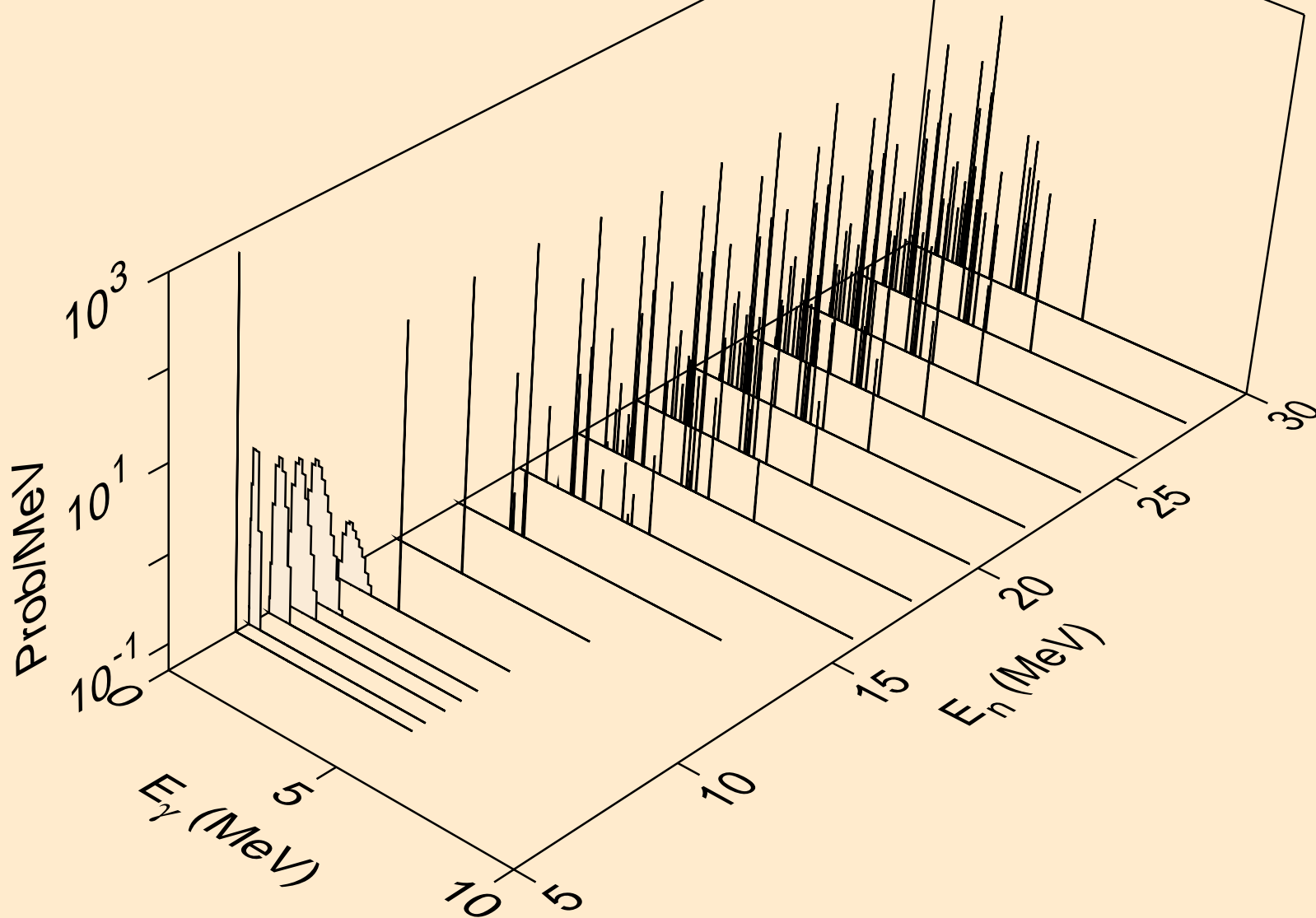


NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)

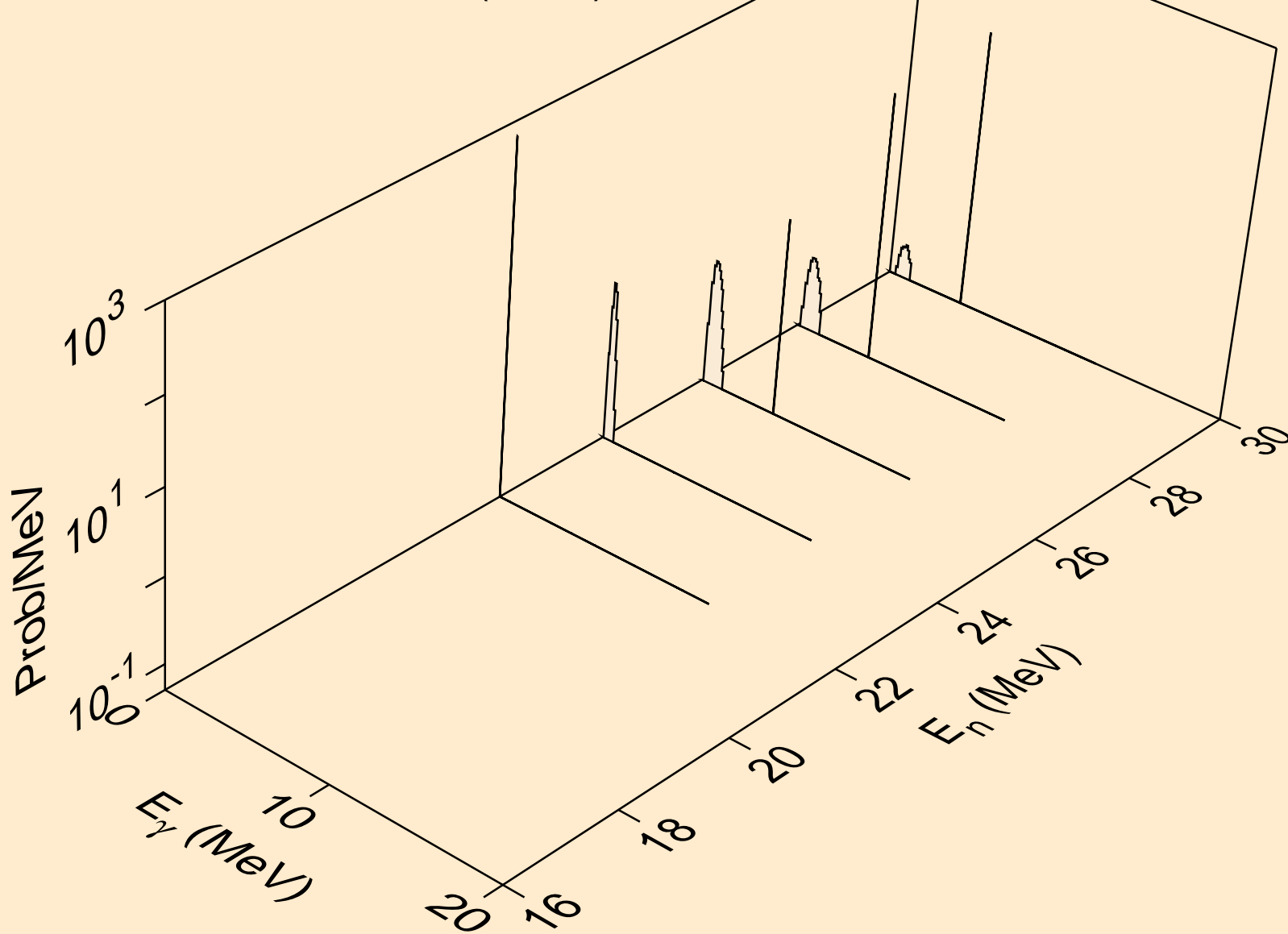




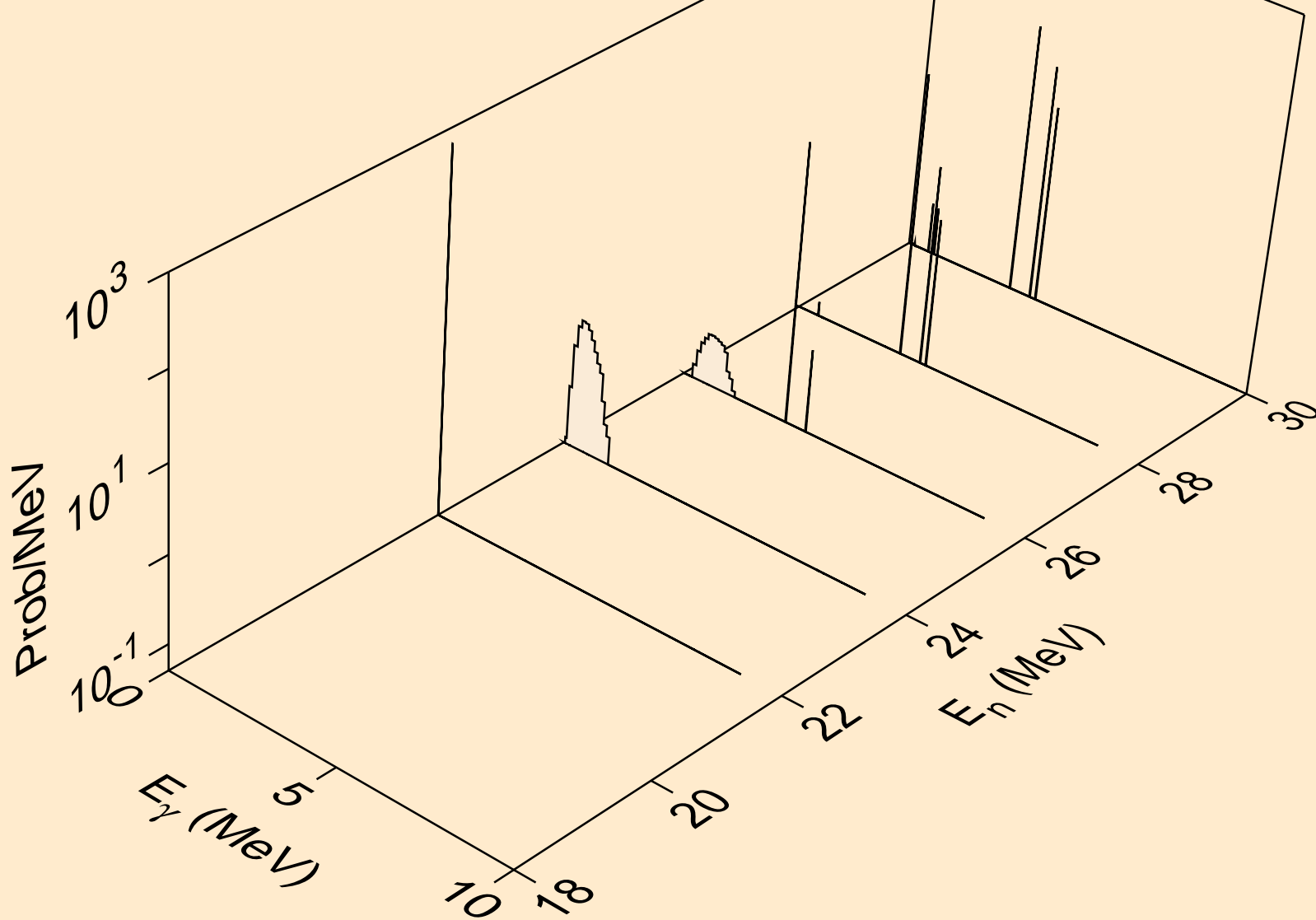
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Photon emission for (n,p $\alpha$ )



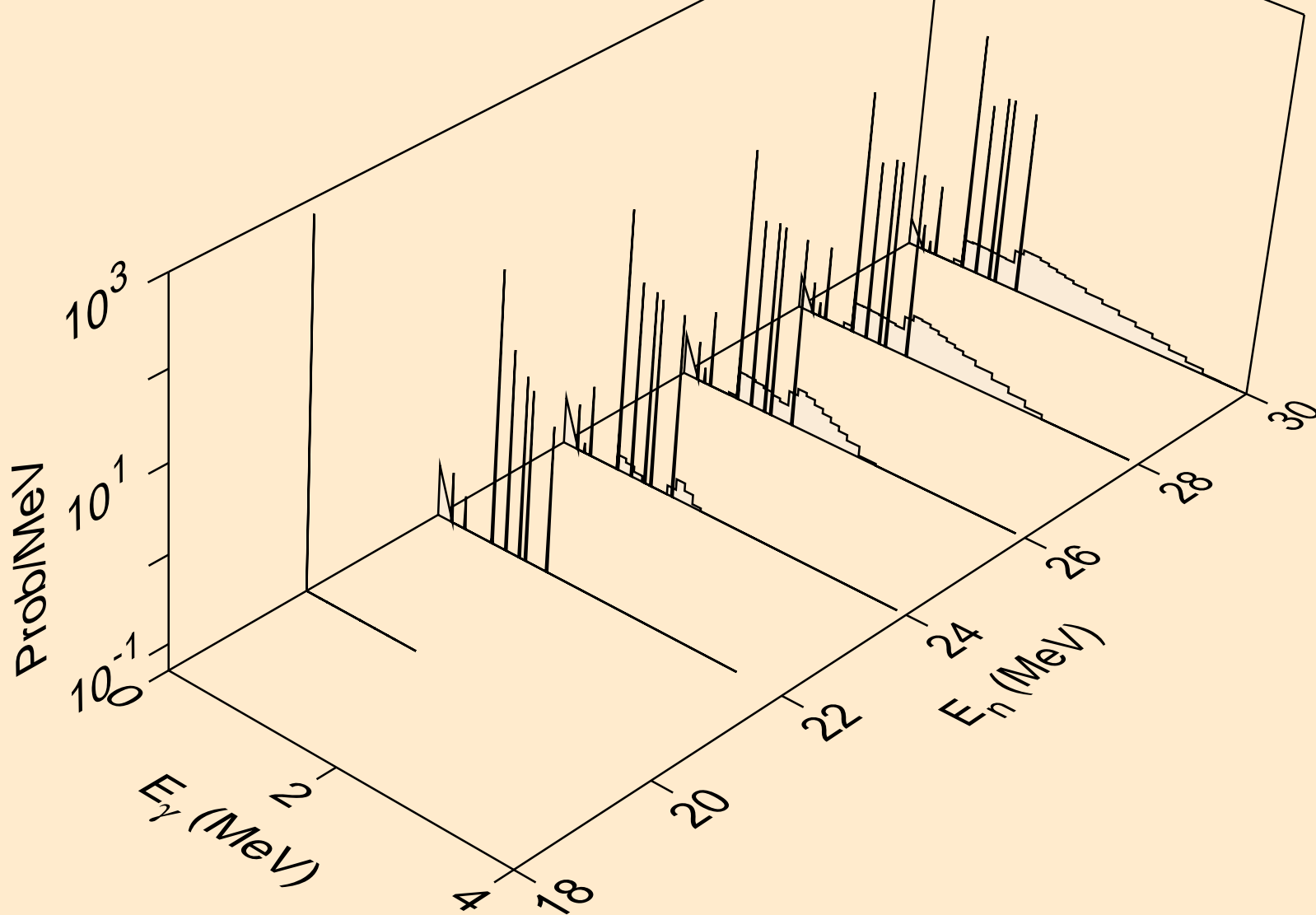
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Photon emission for (n,t2a)



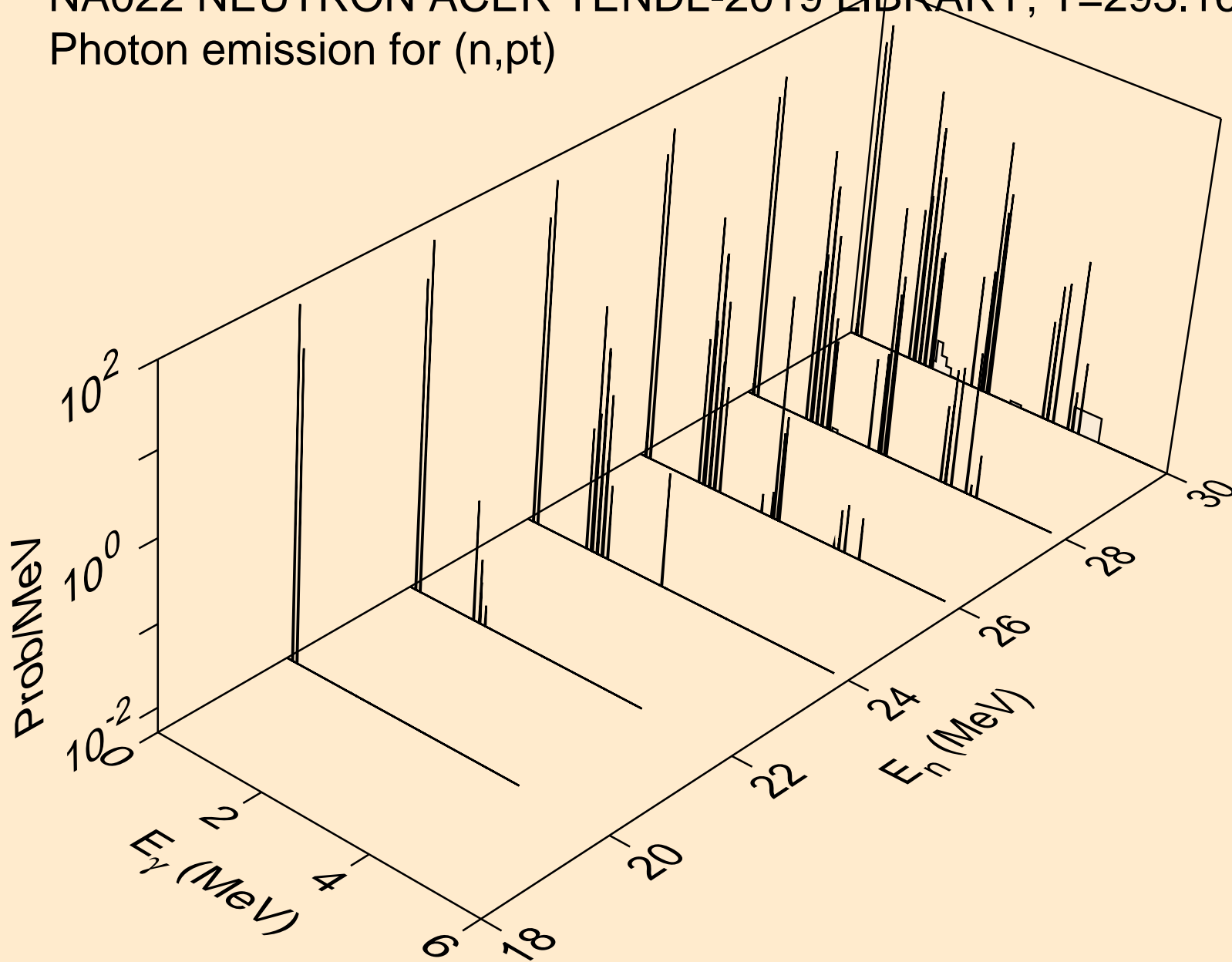
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Photon emission for (n,d2a)



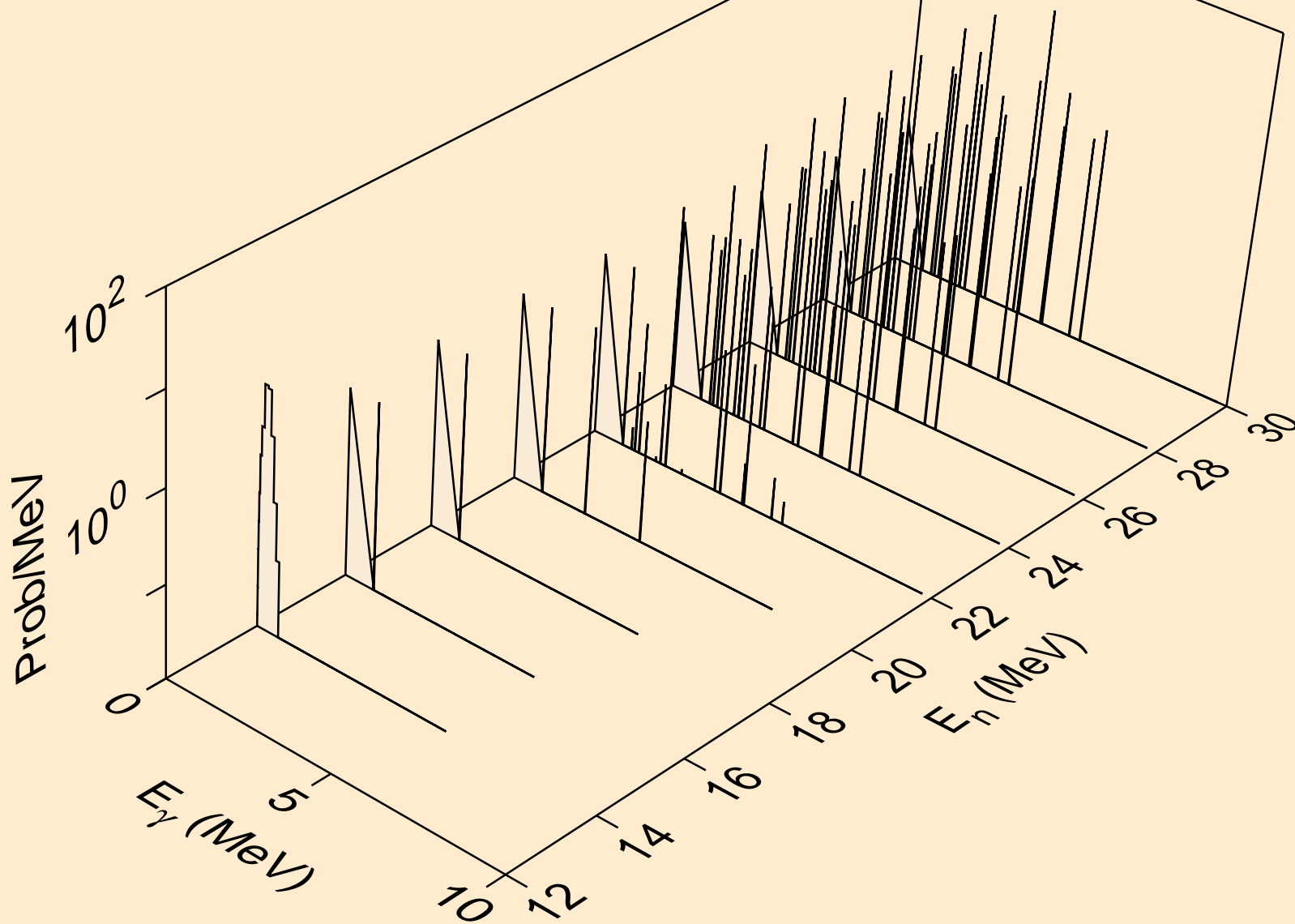
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Photon emission for (n,pd)



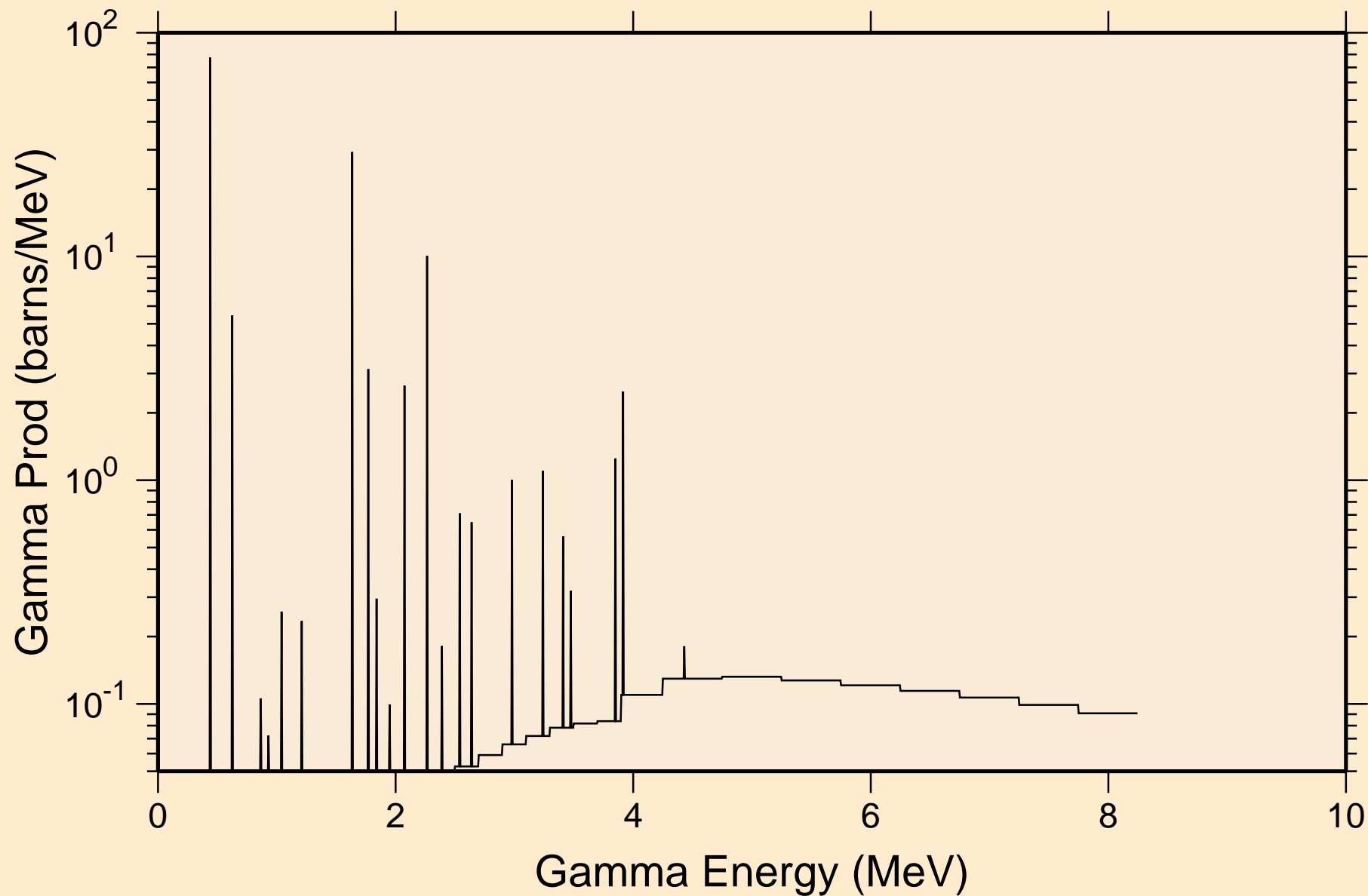
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pt)



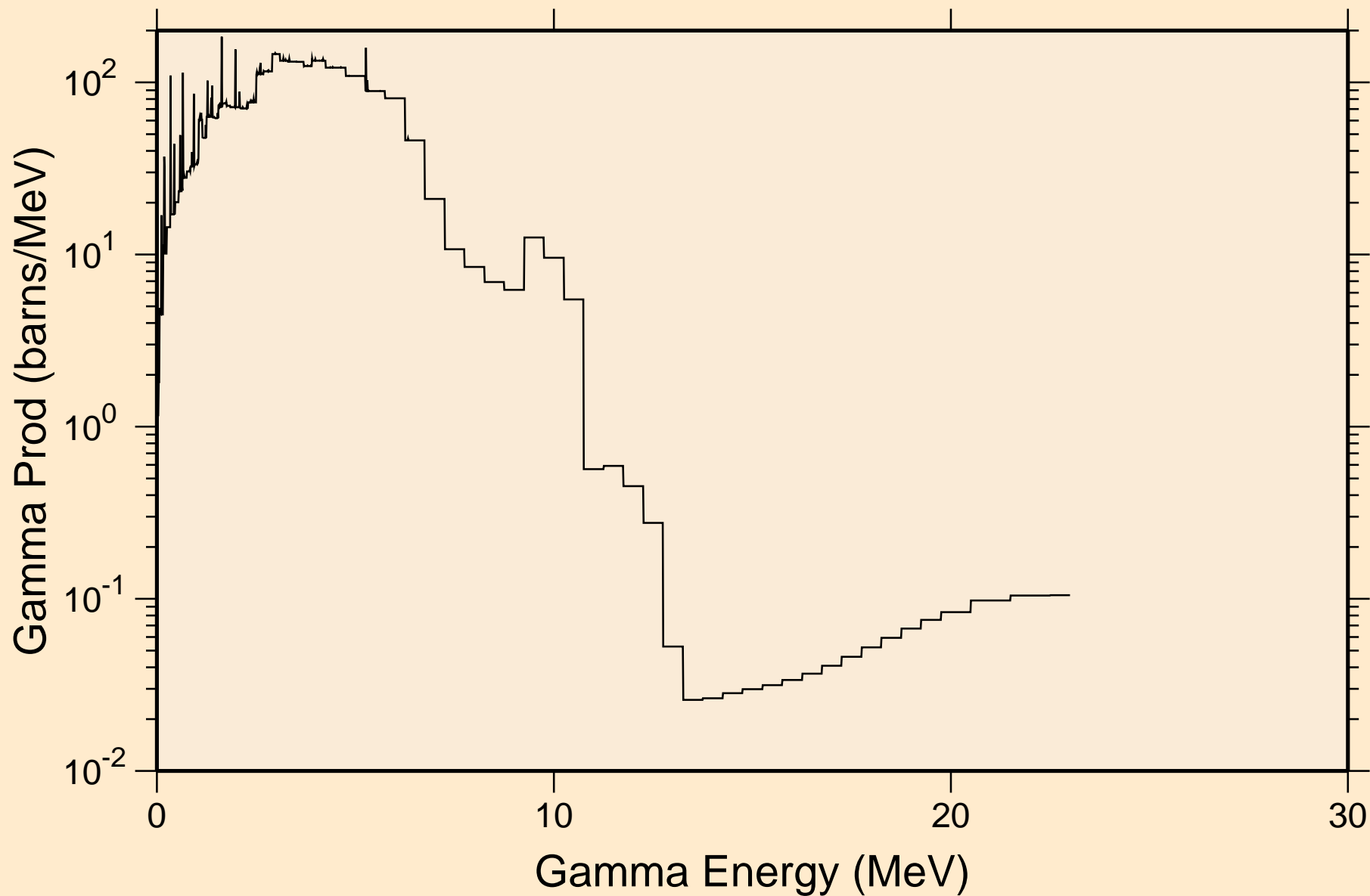
NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



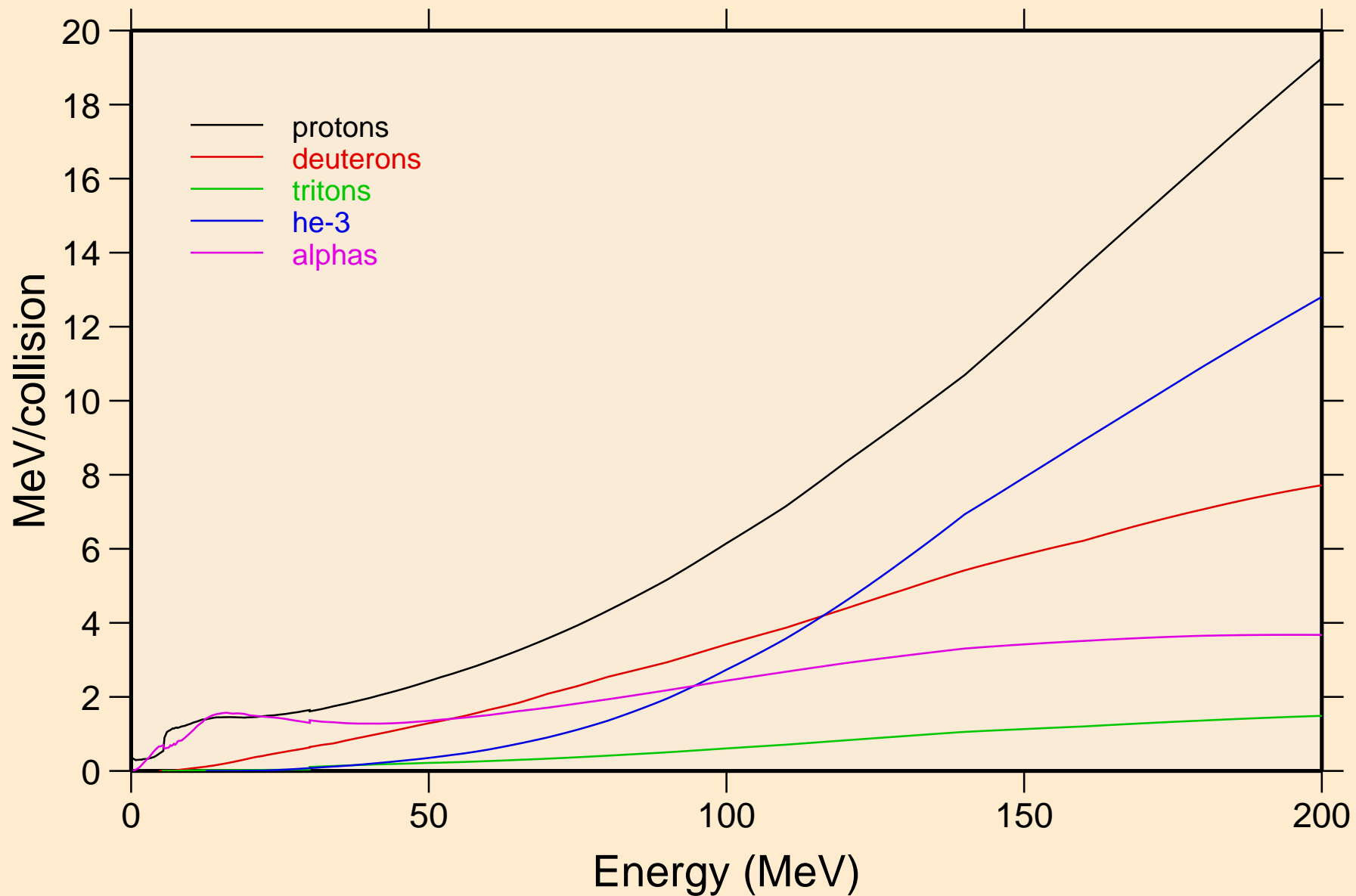
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14 MeV photon spectrum



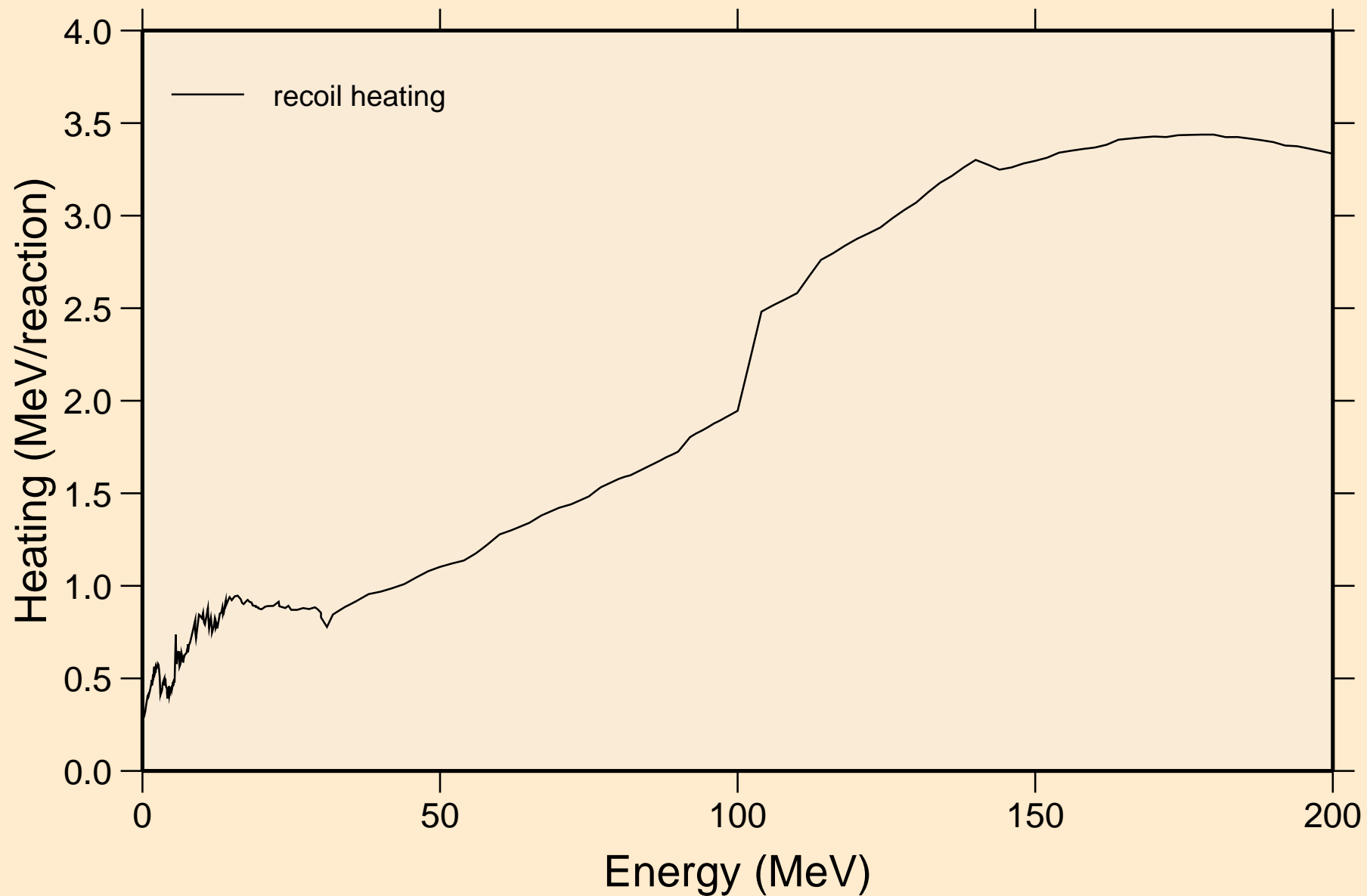


# NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions

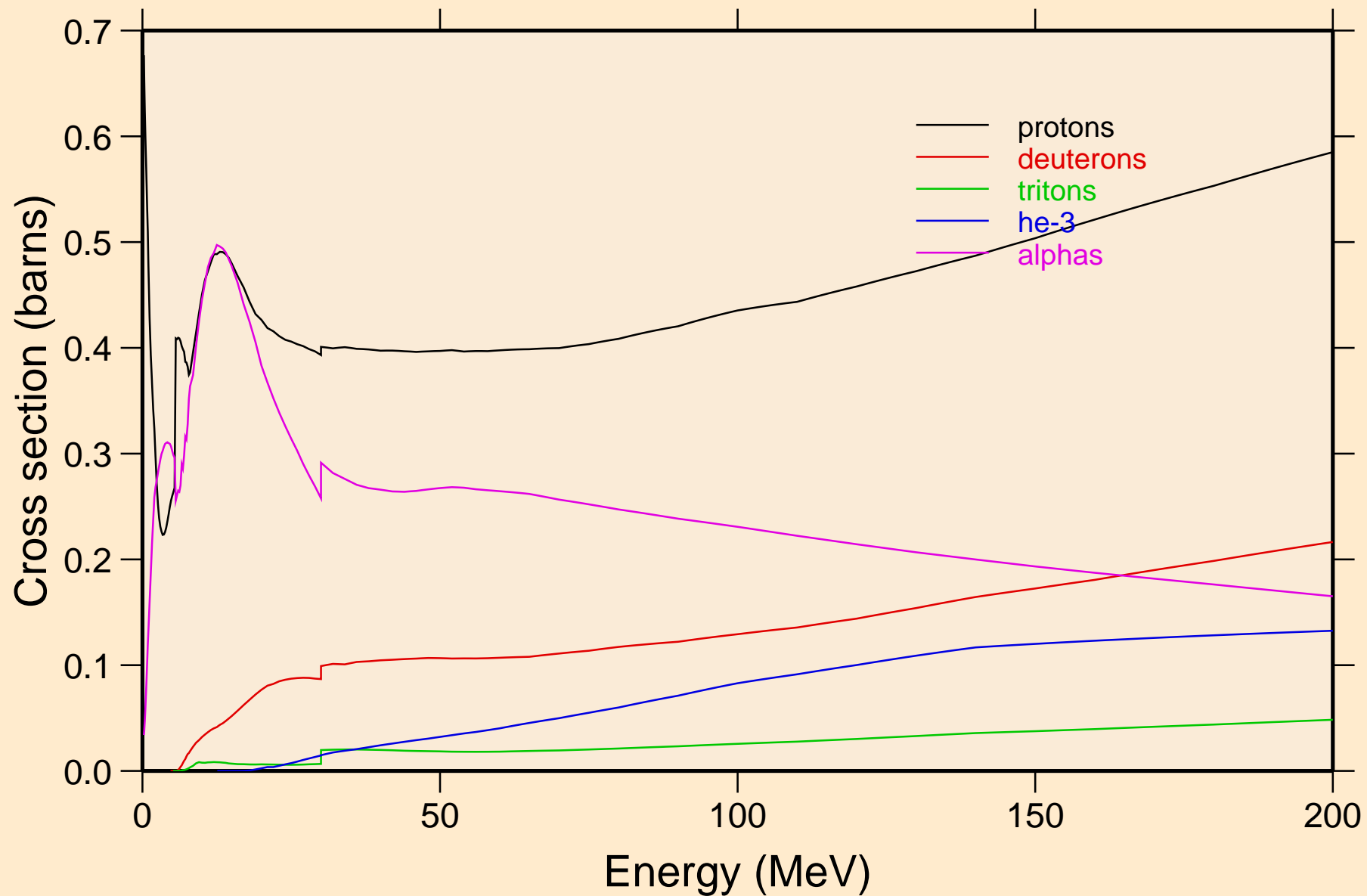


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Recoil Heating

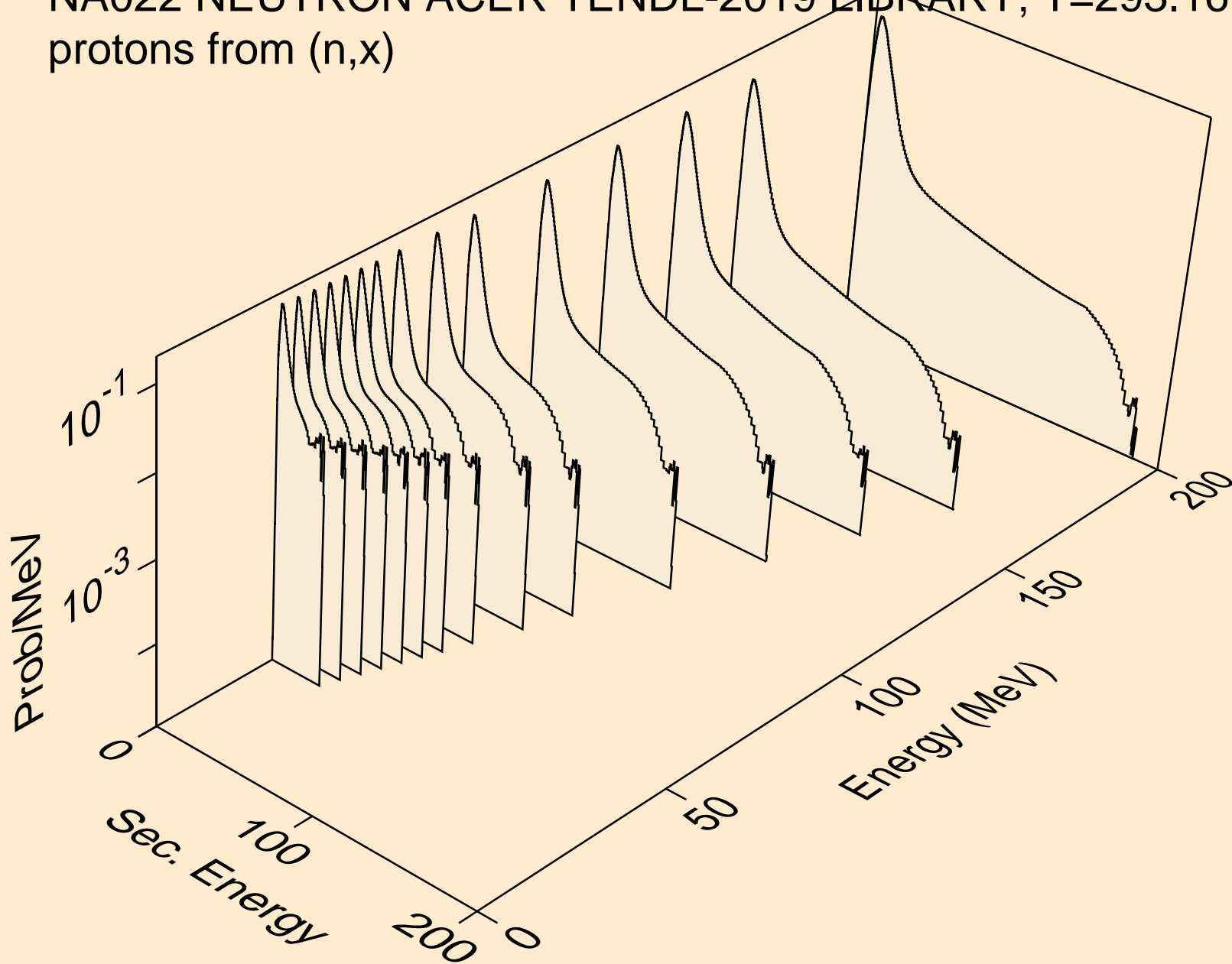


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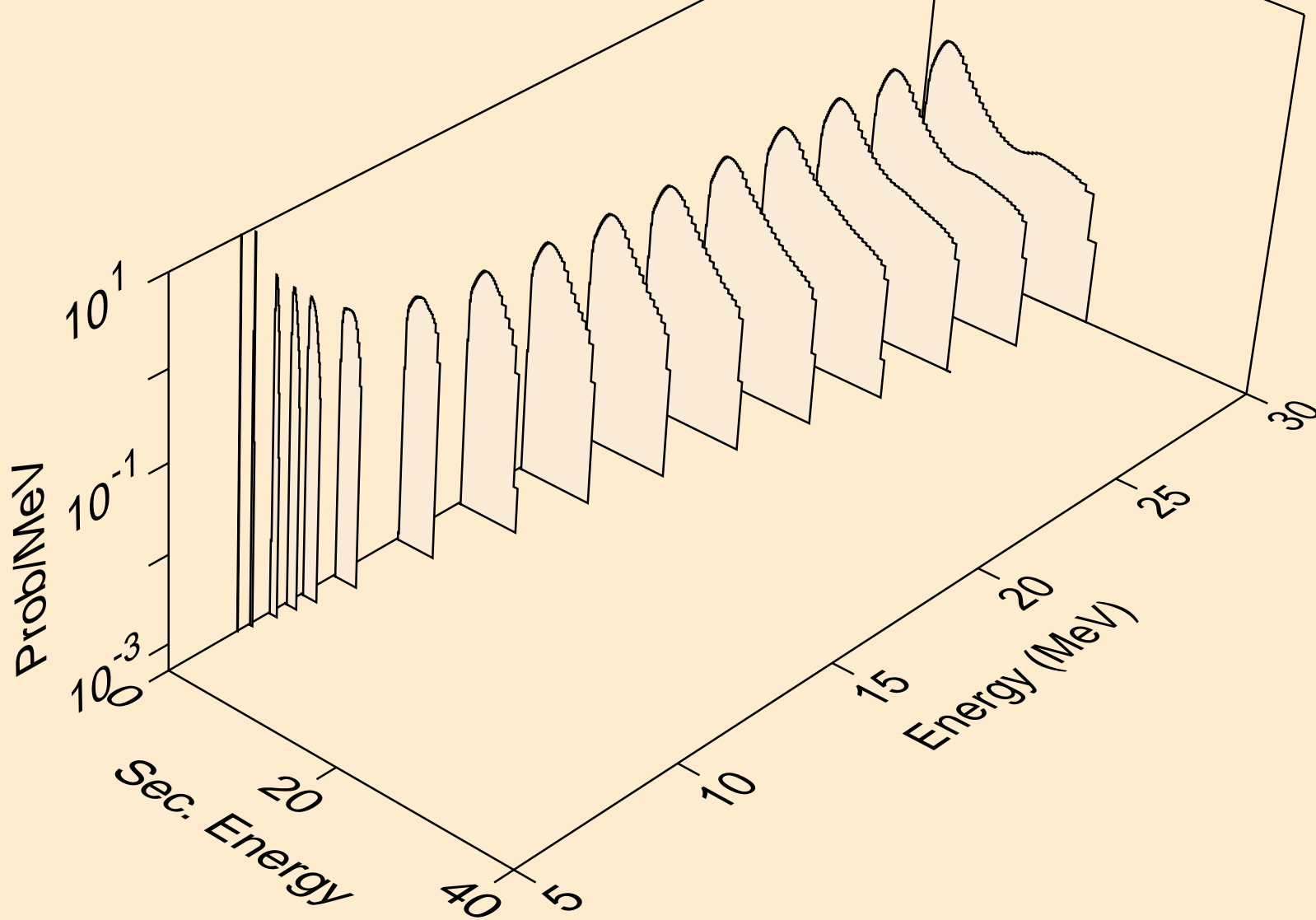
## Particle production cross sections



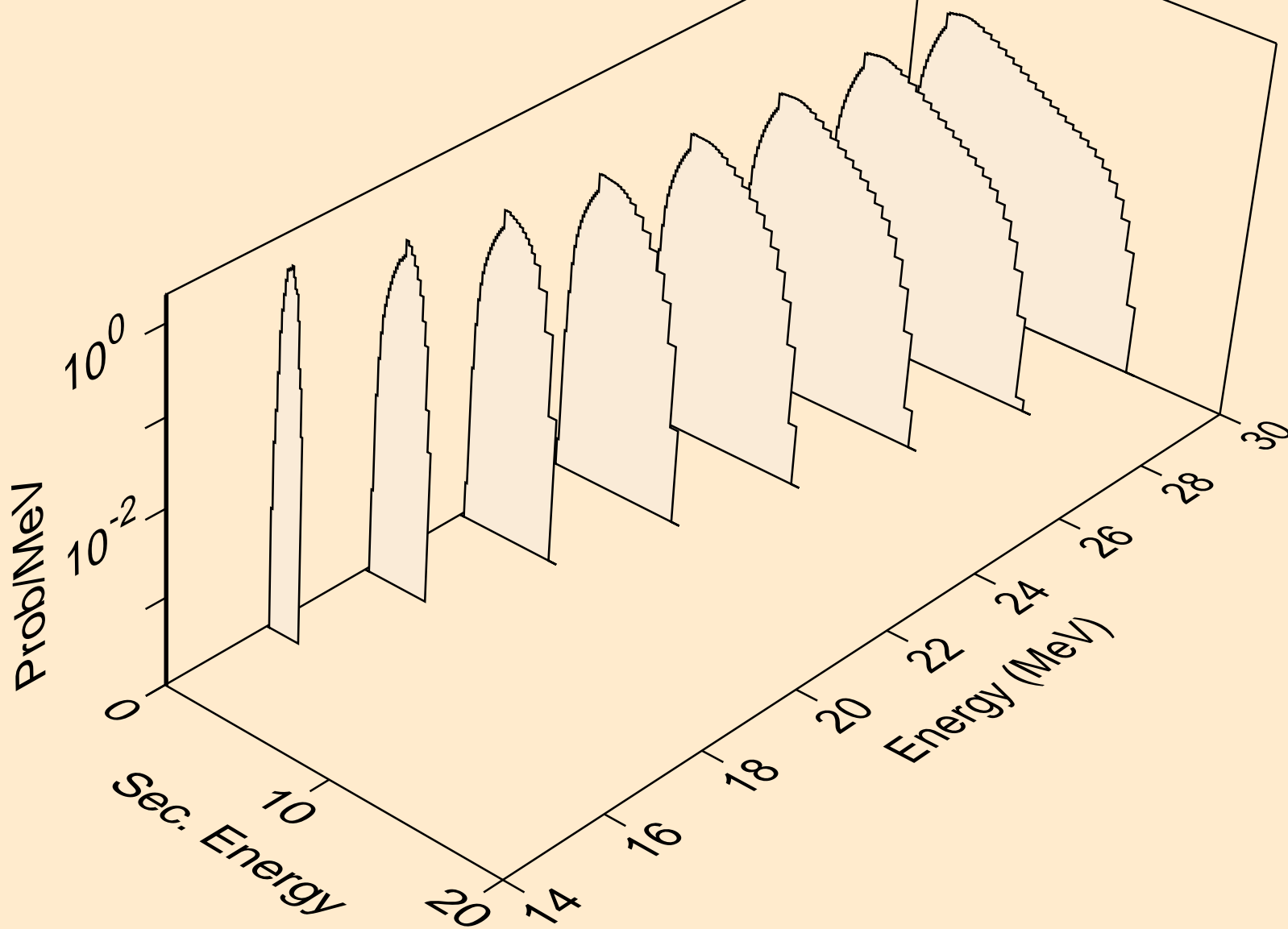
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protons from (n,x)



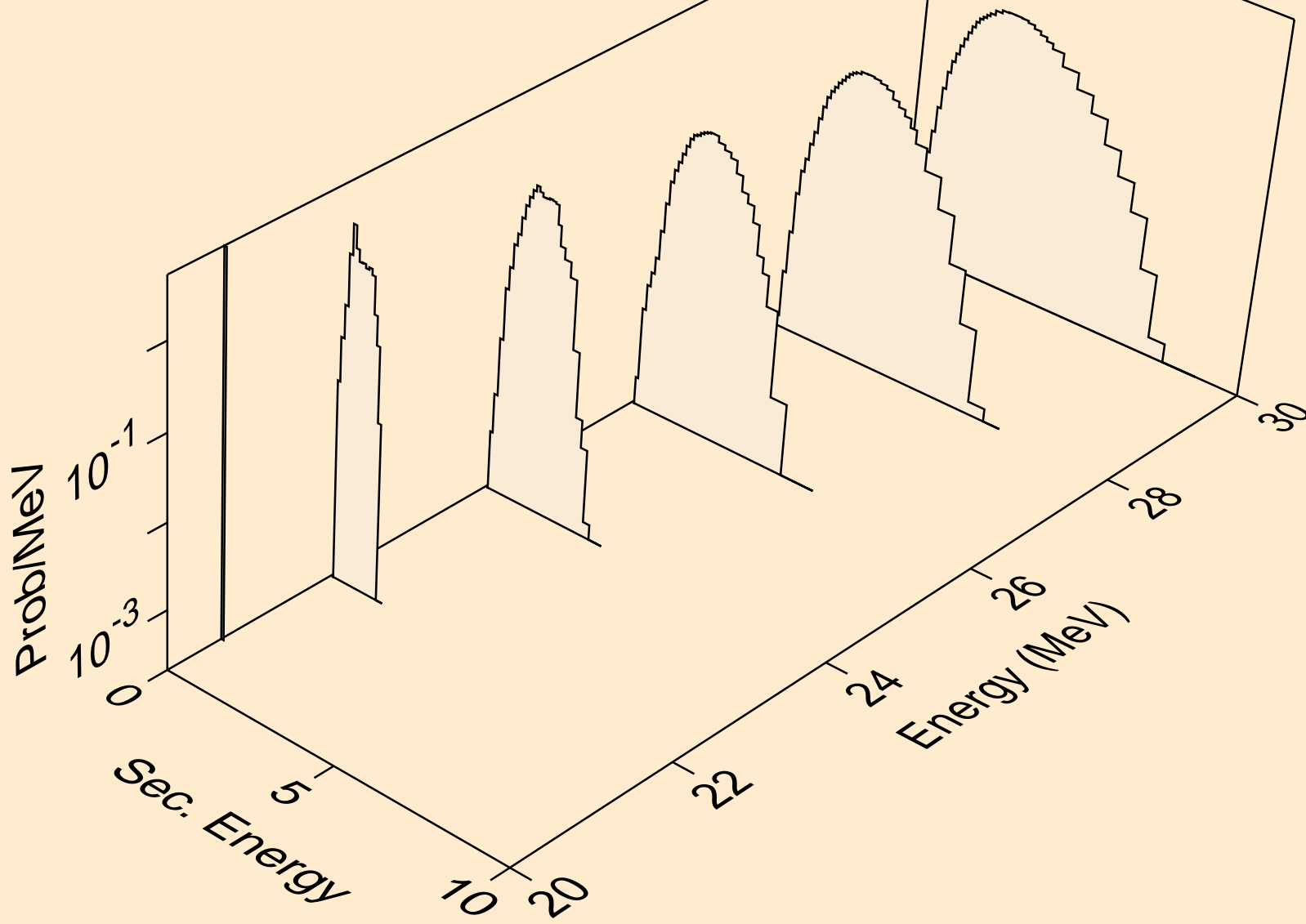
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protons from (n,n\*)p



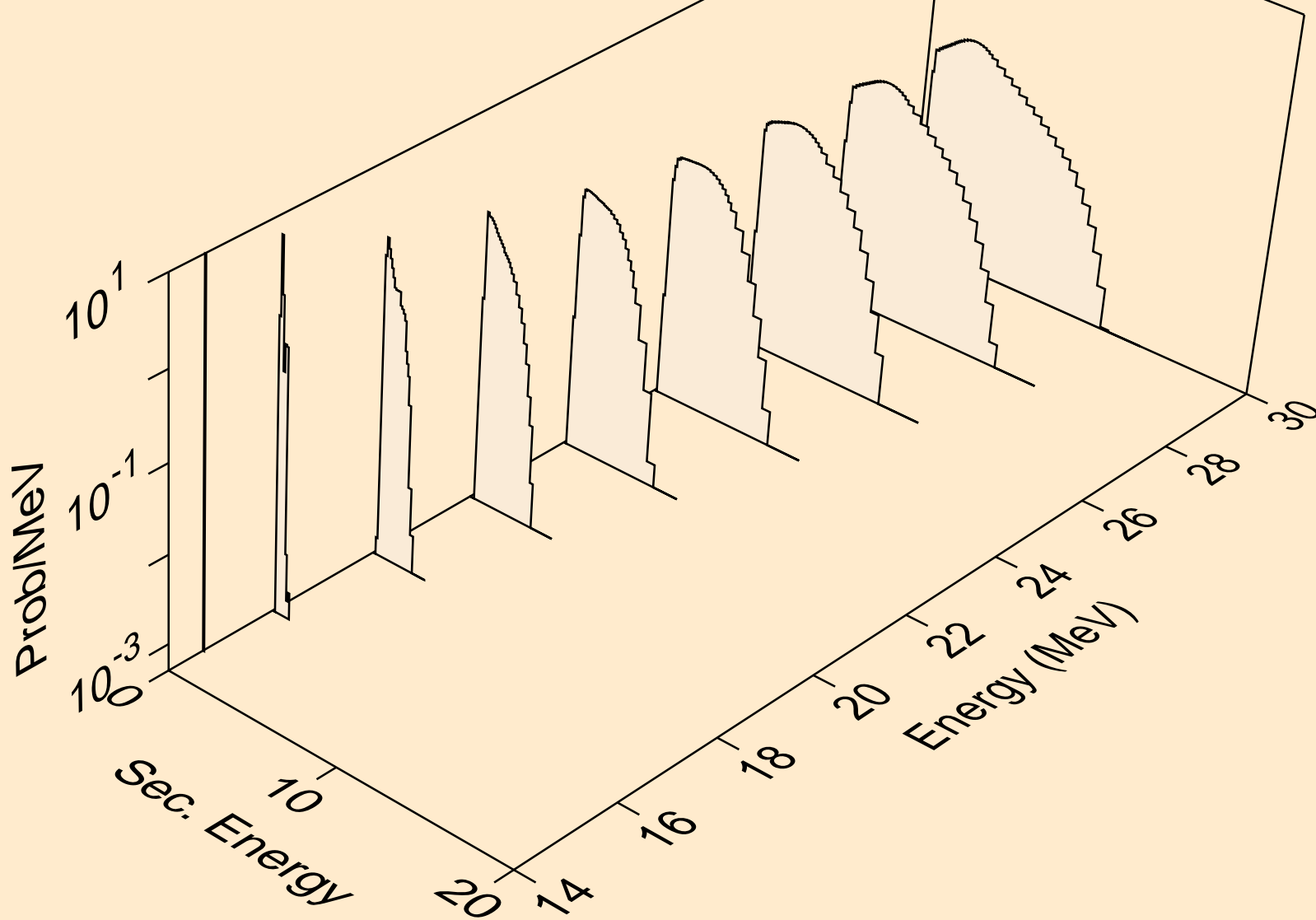
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protons from (n,2np)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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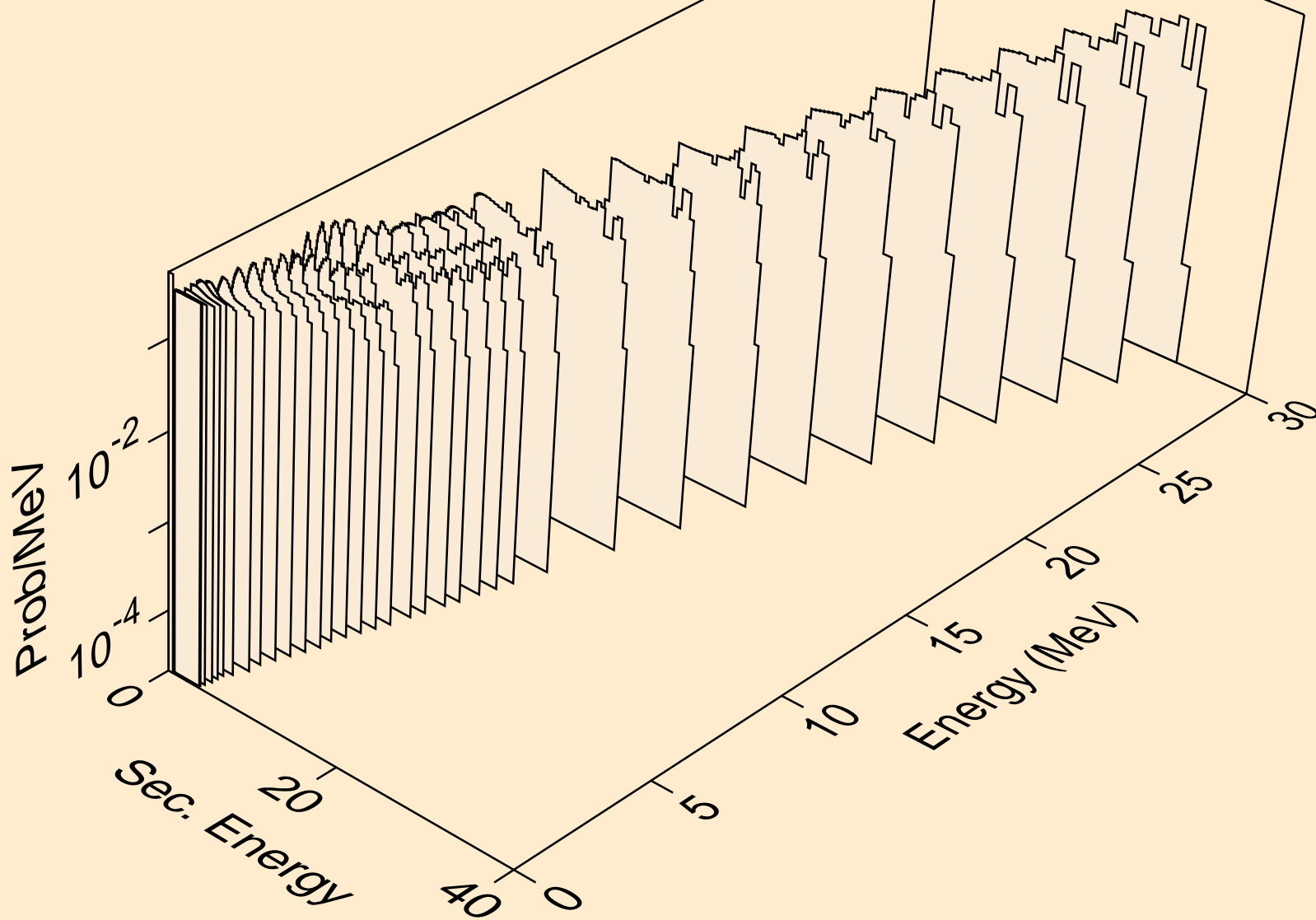


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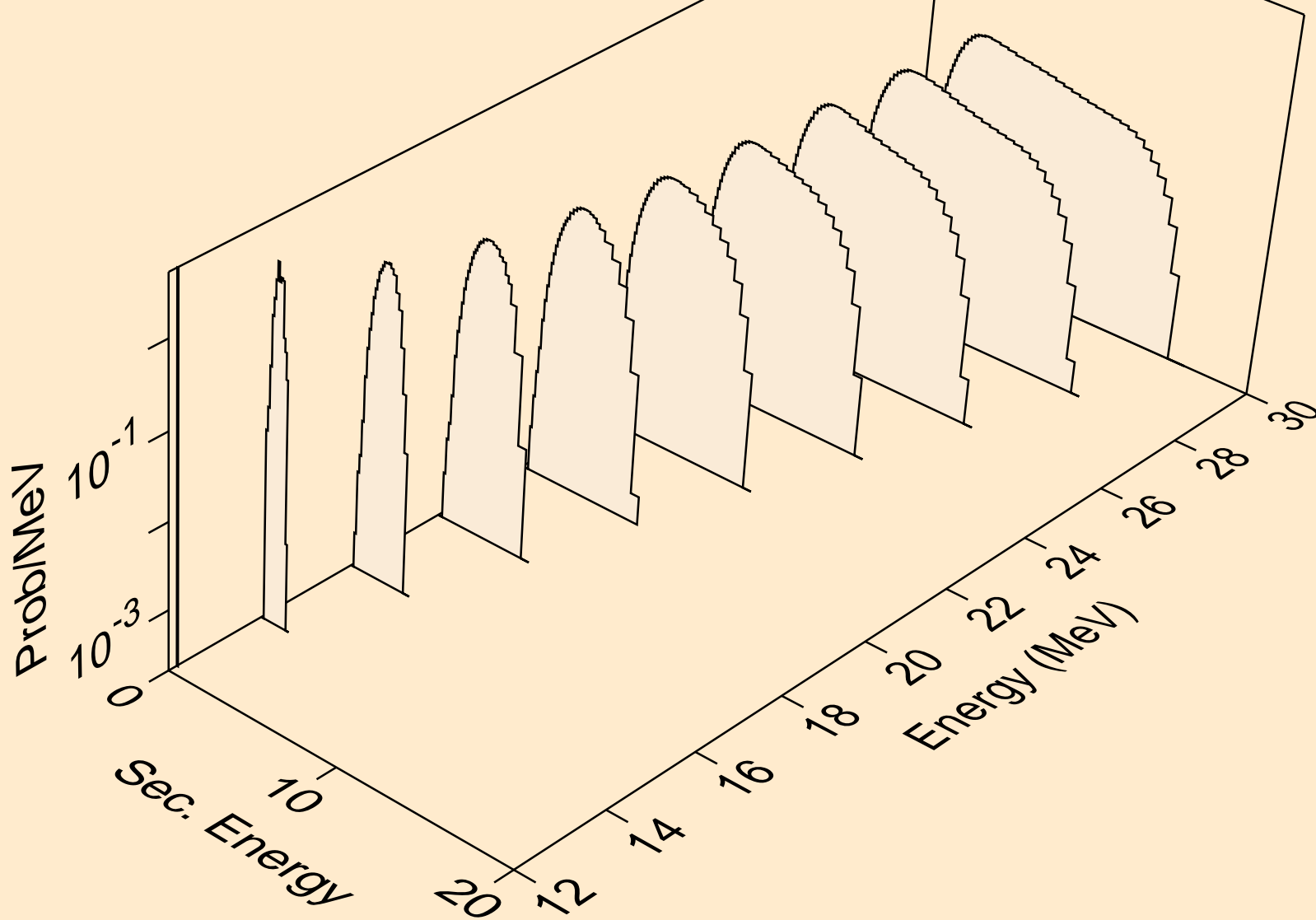




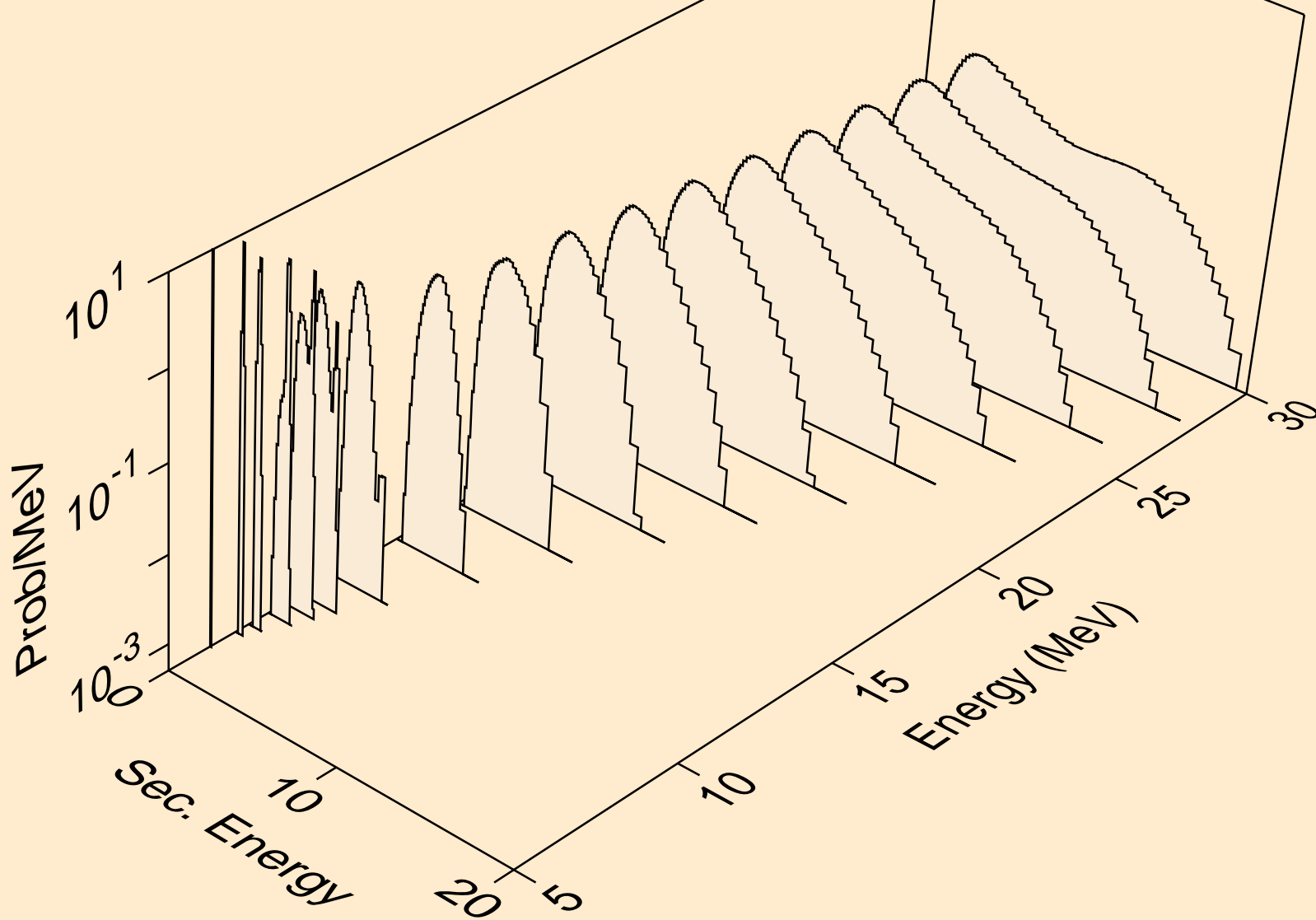
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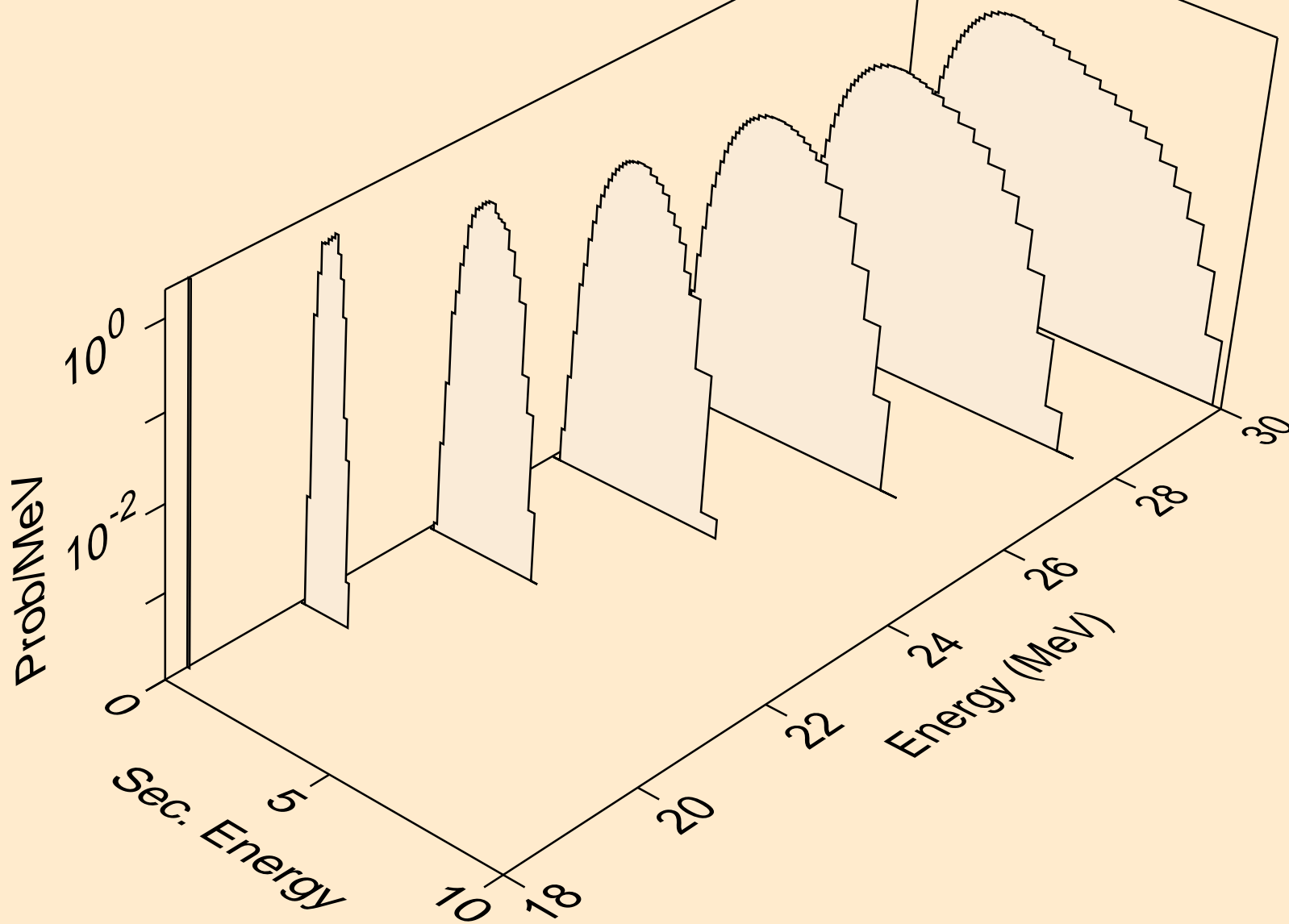
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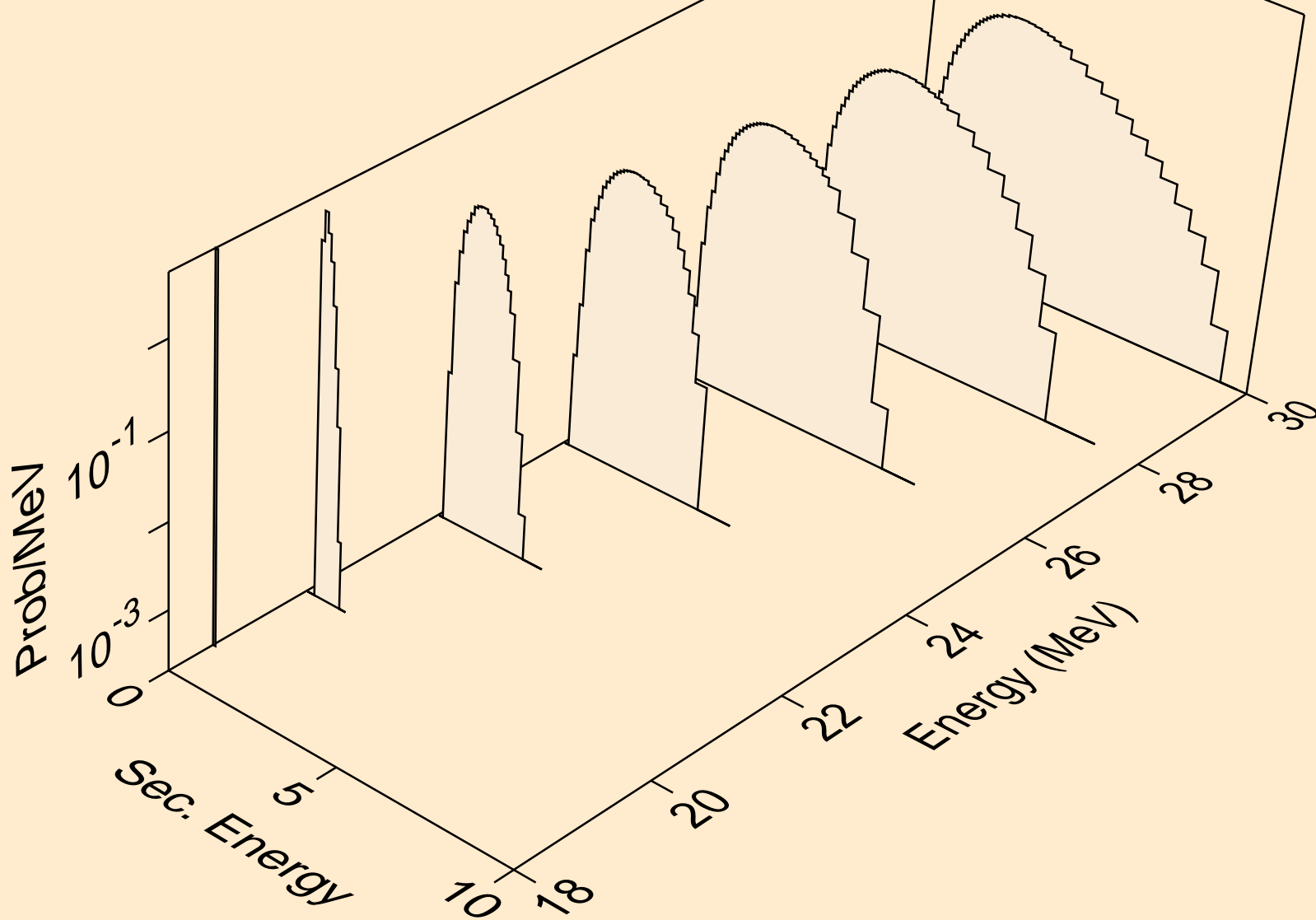
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protons from (n,p)



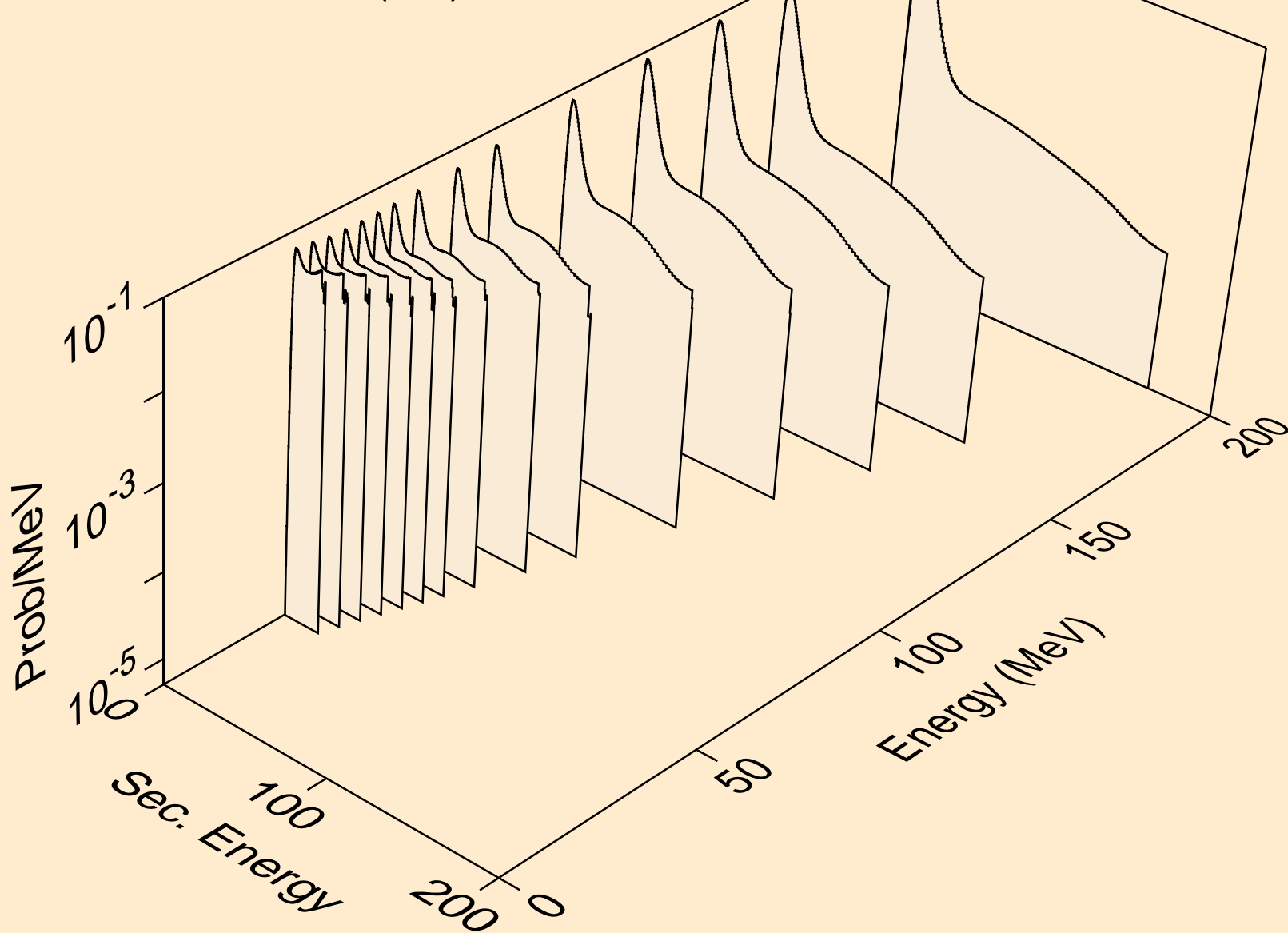
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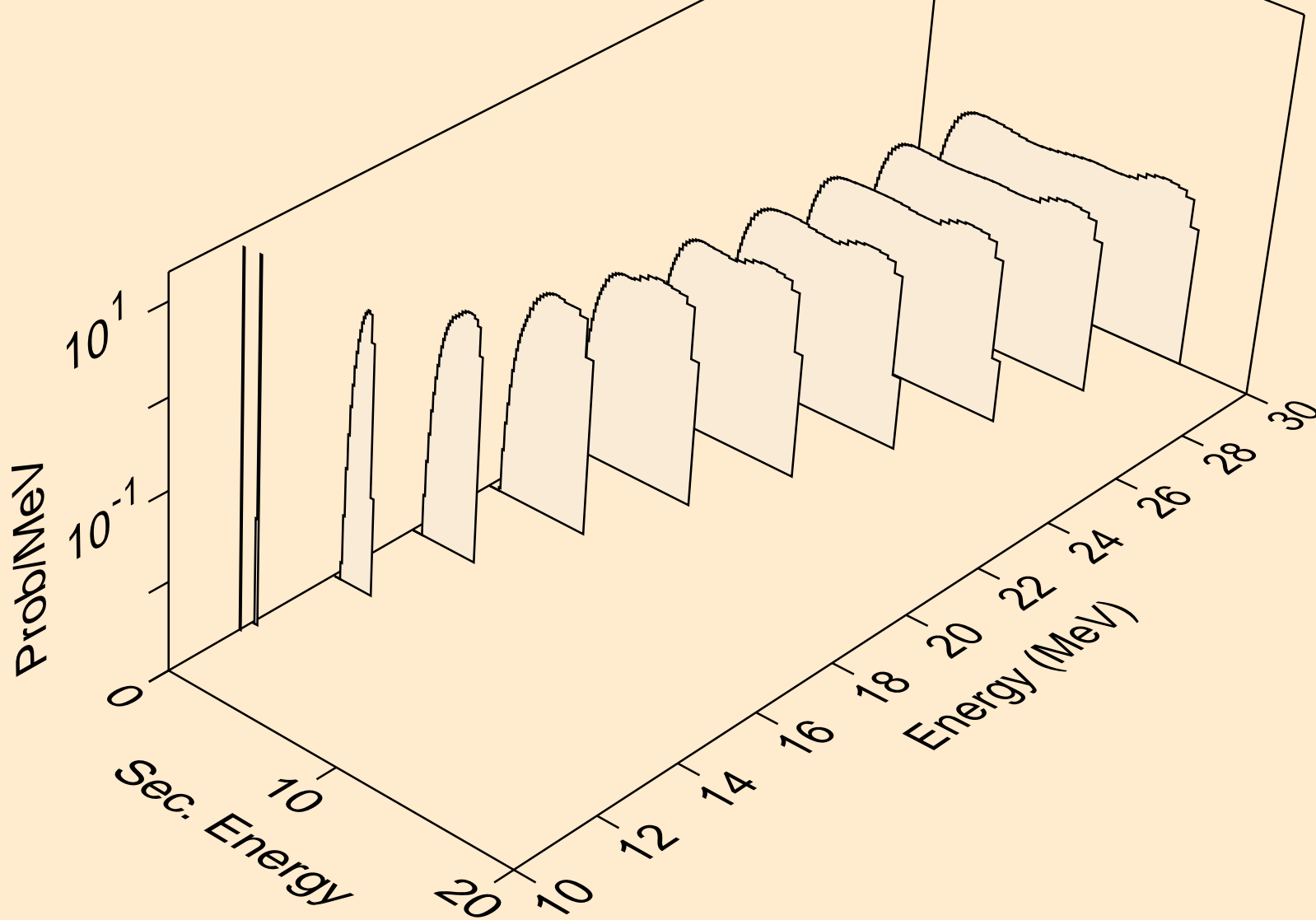
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protons from (n,pt)



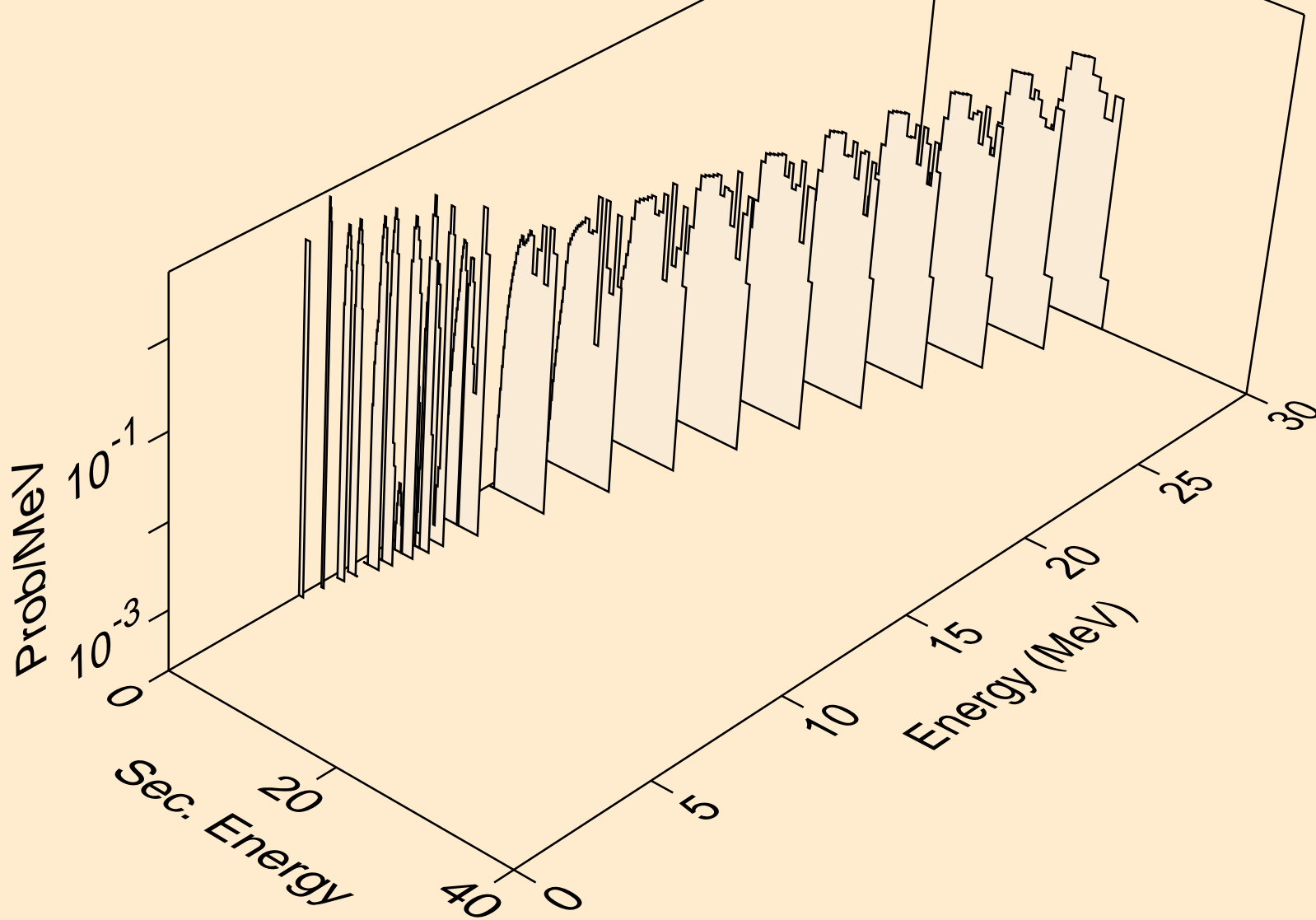
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deuterons from (n,x)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d

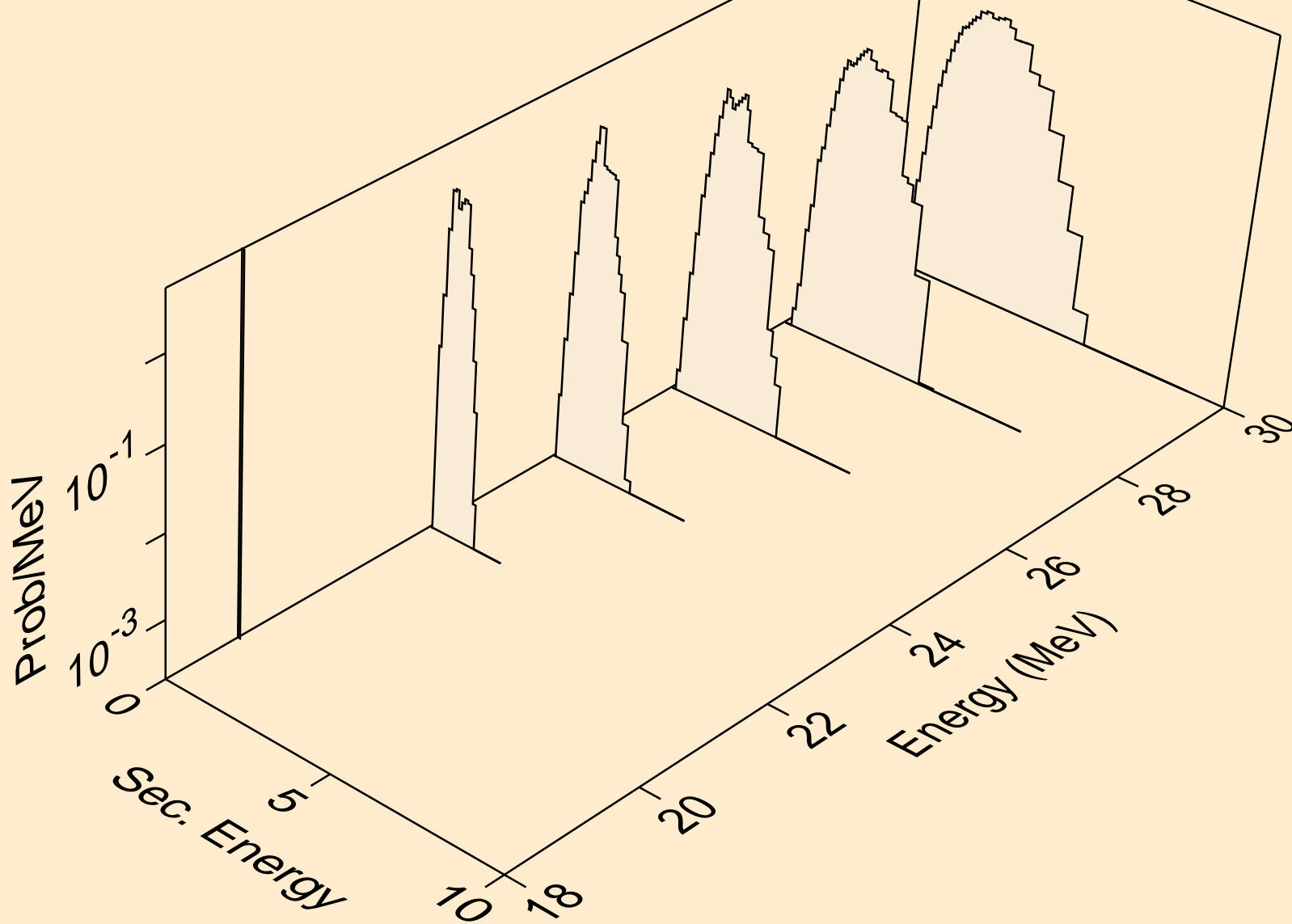


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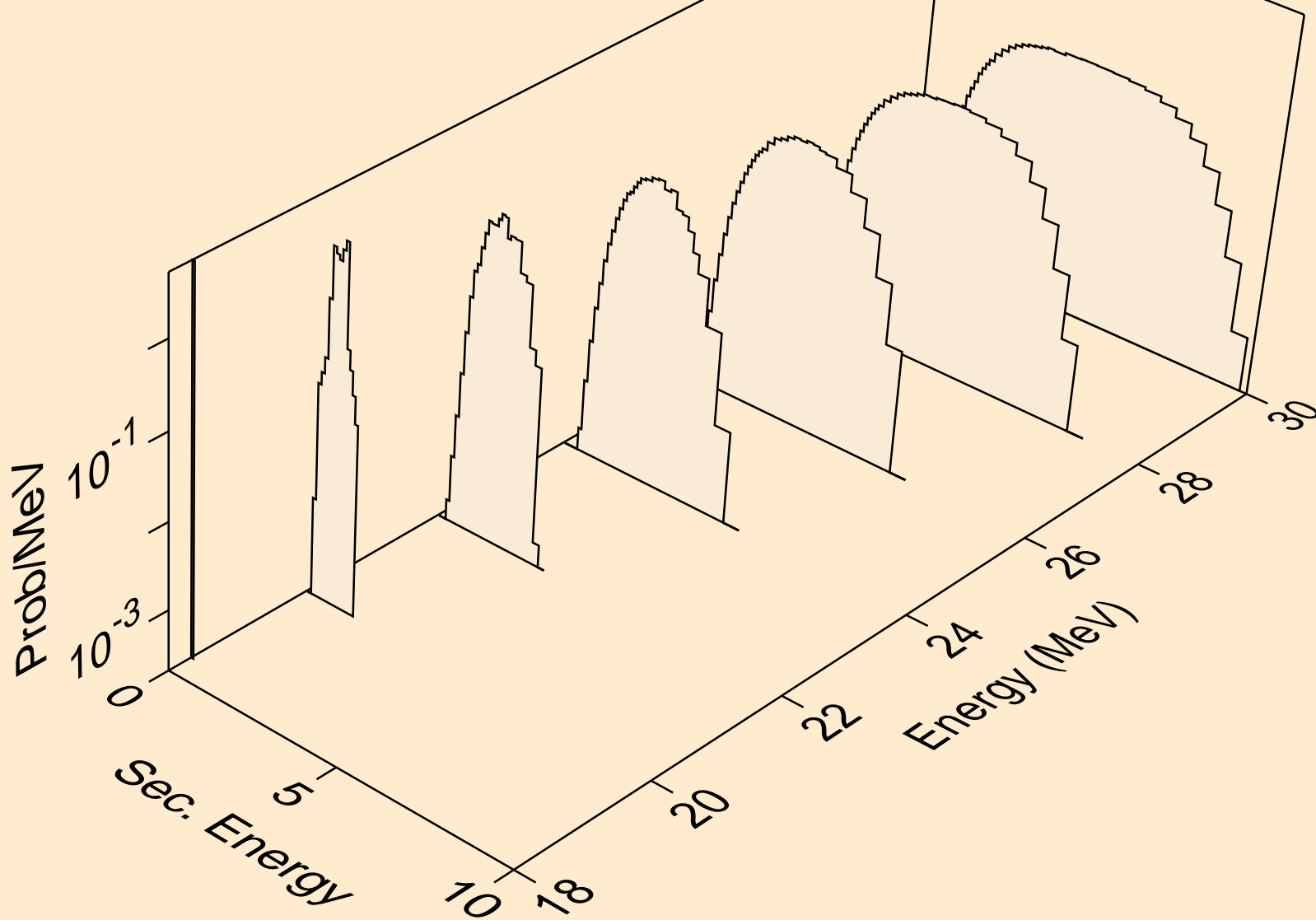




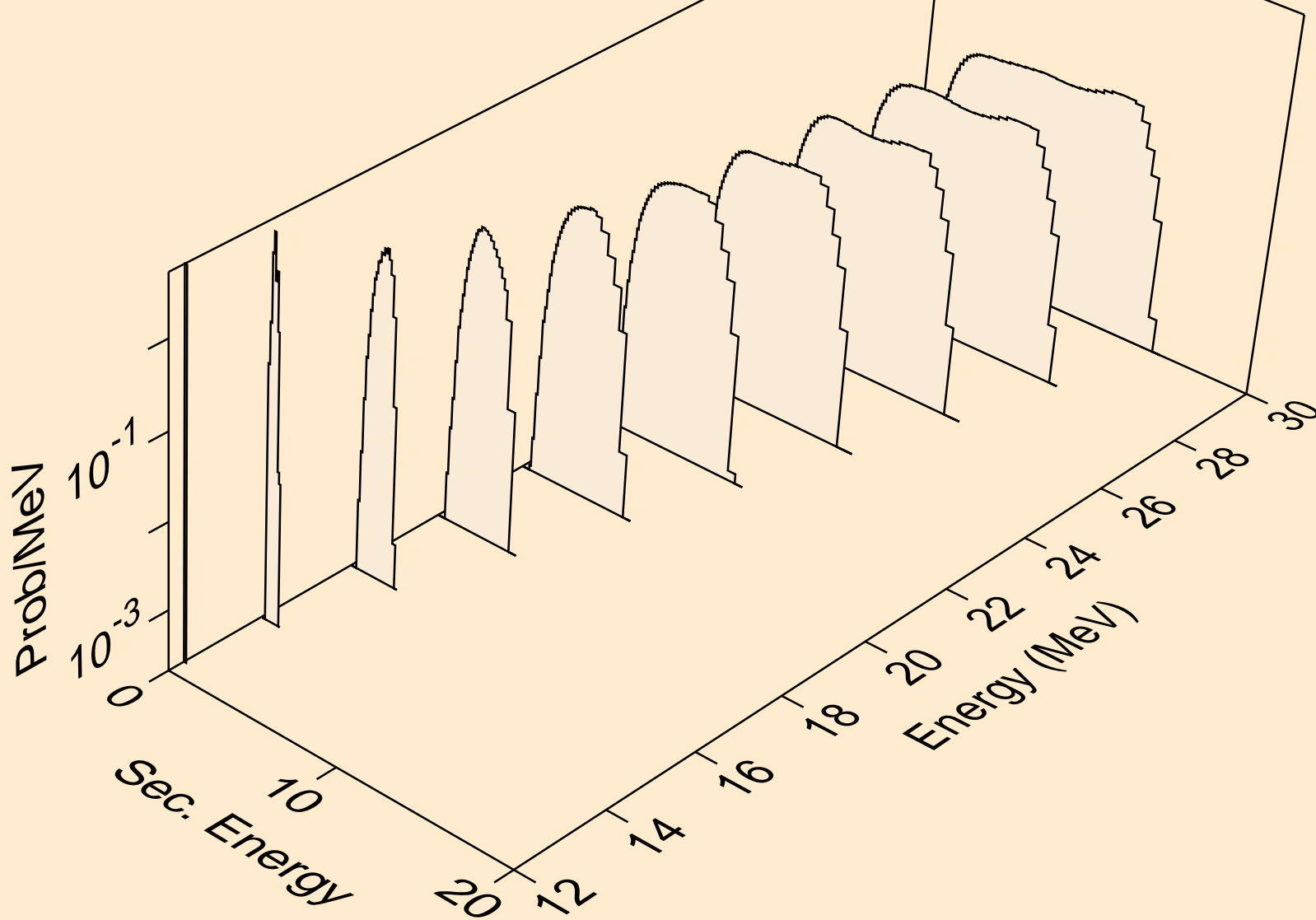
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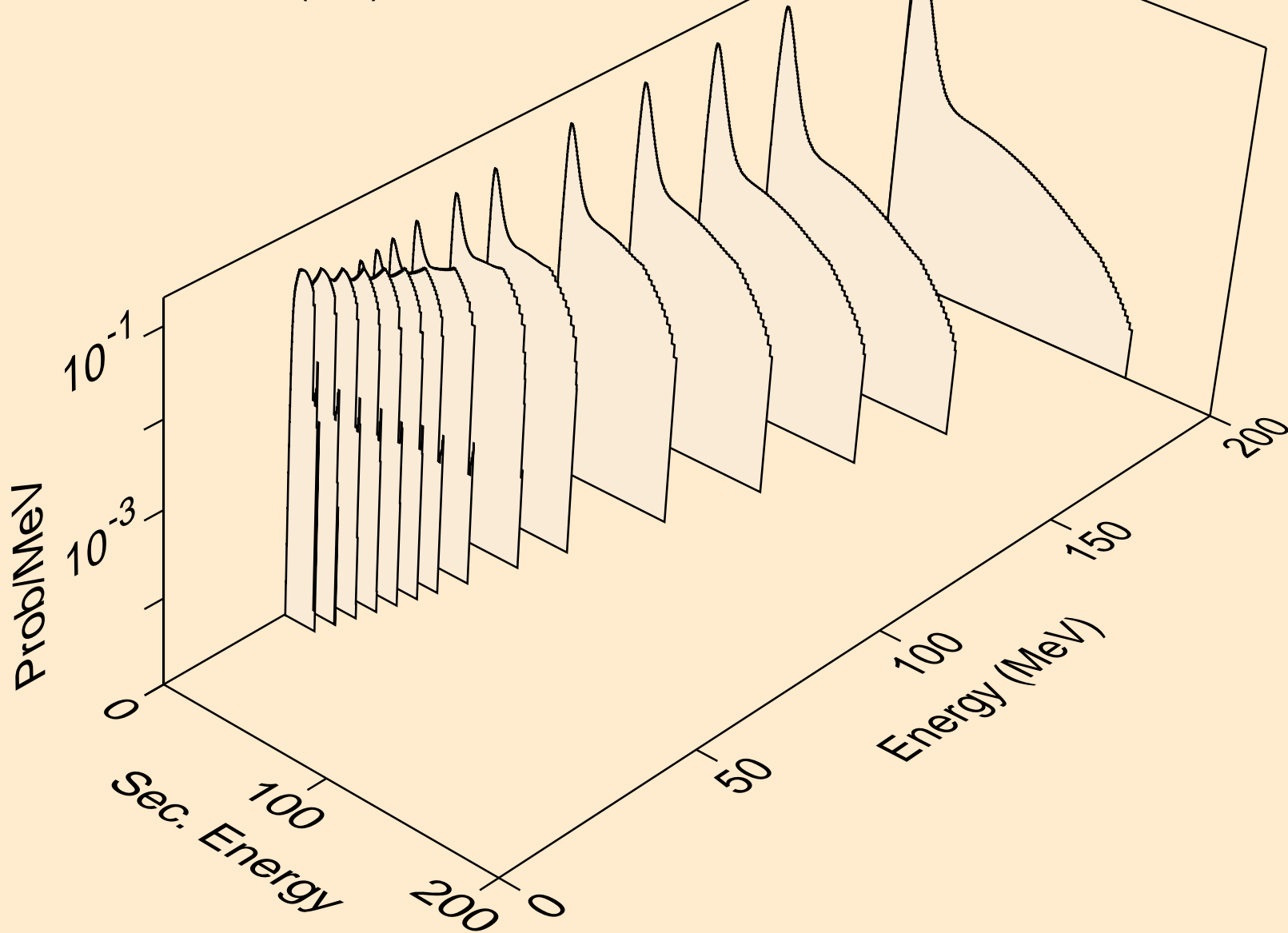
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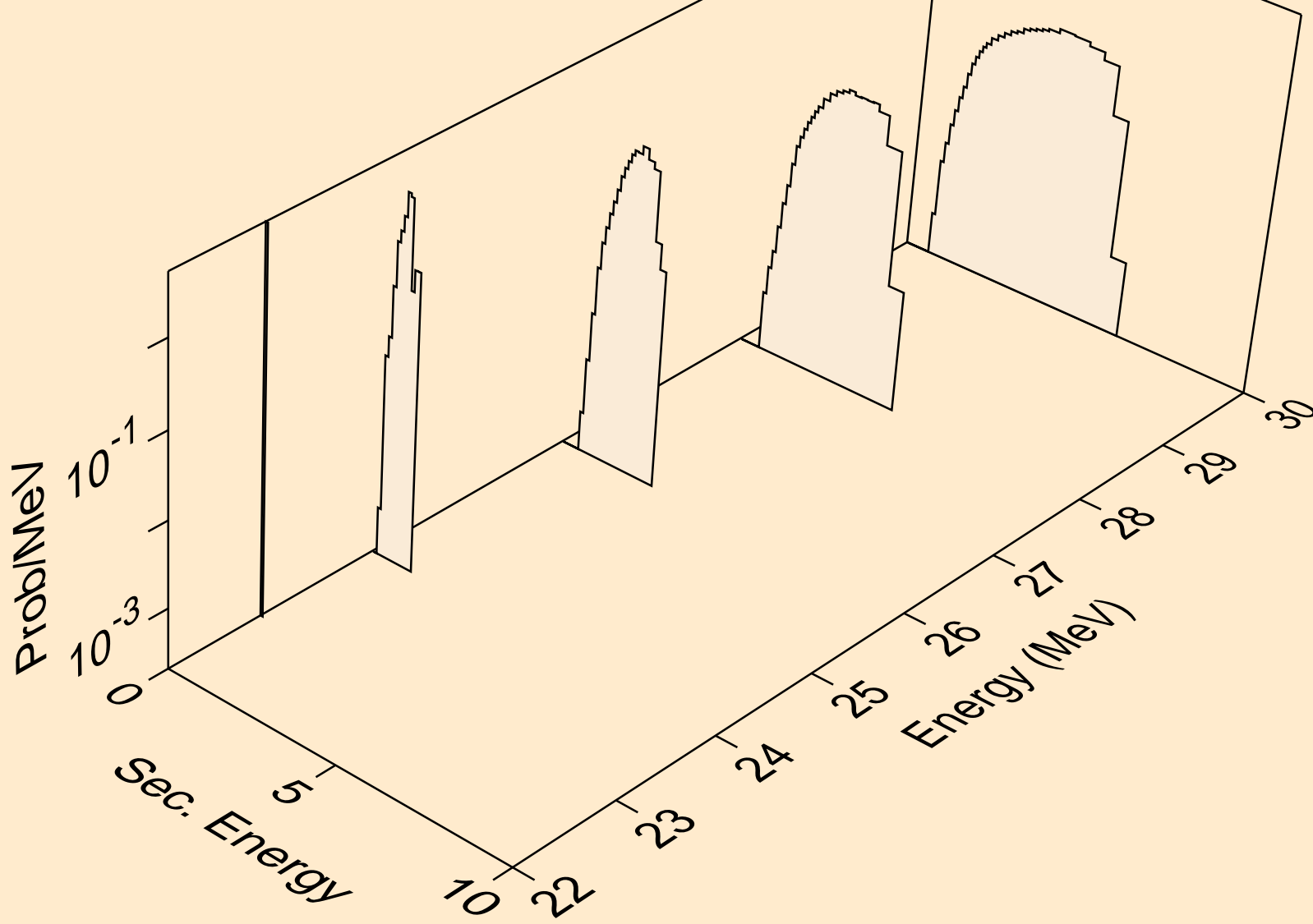
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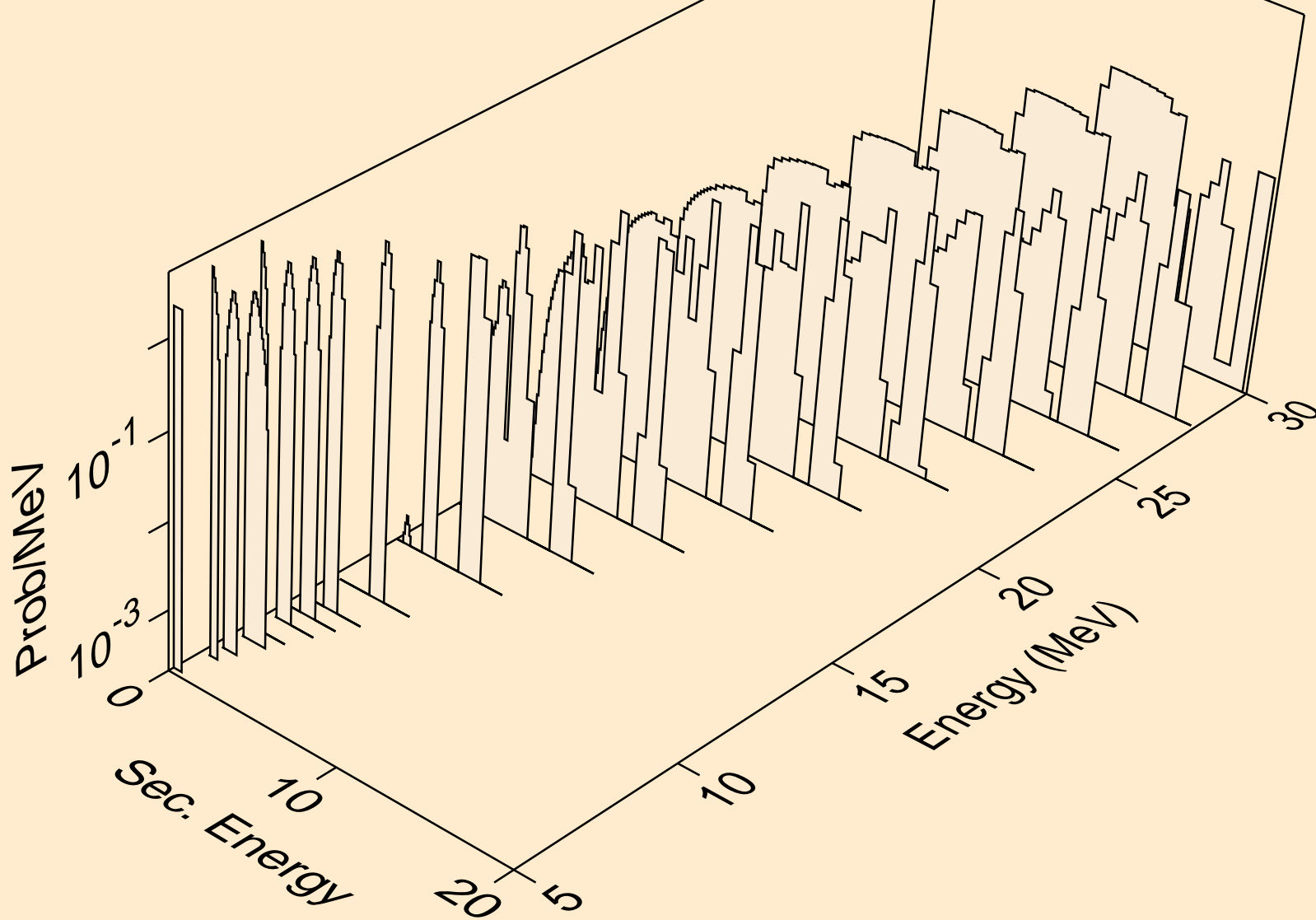
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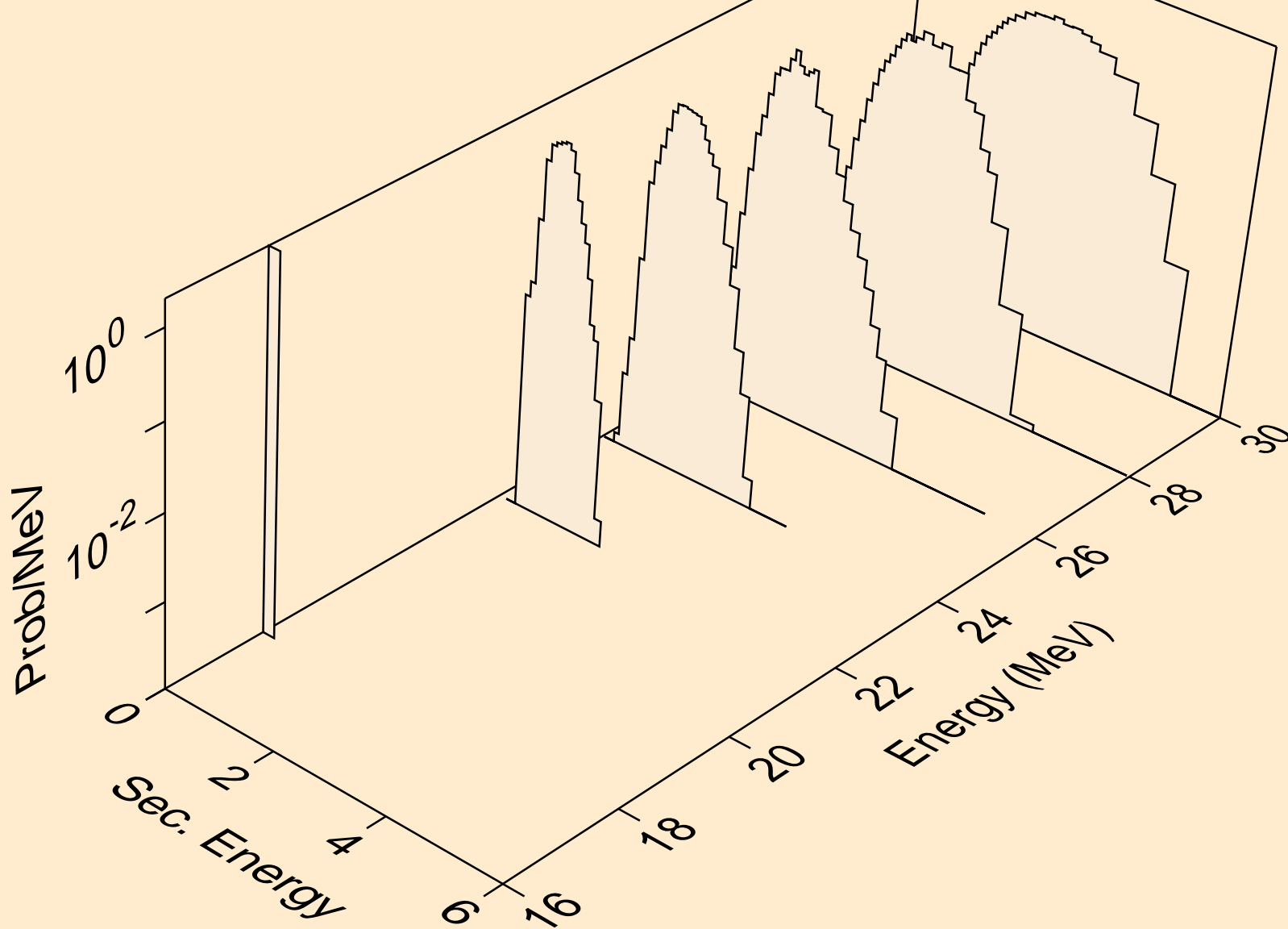
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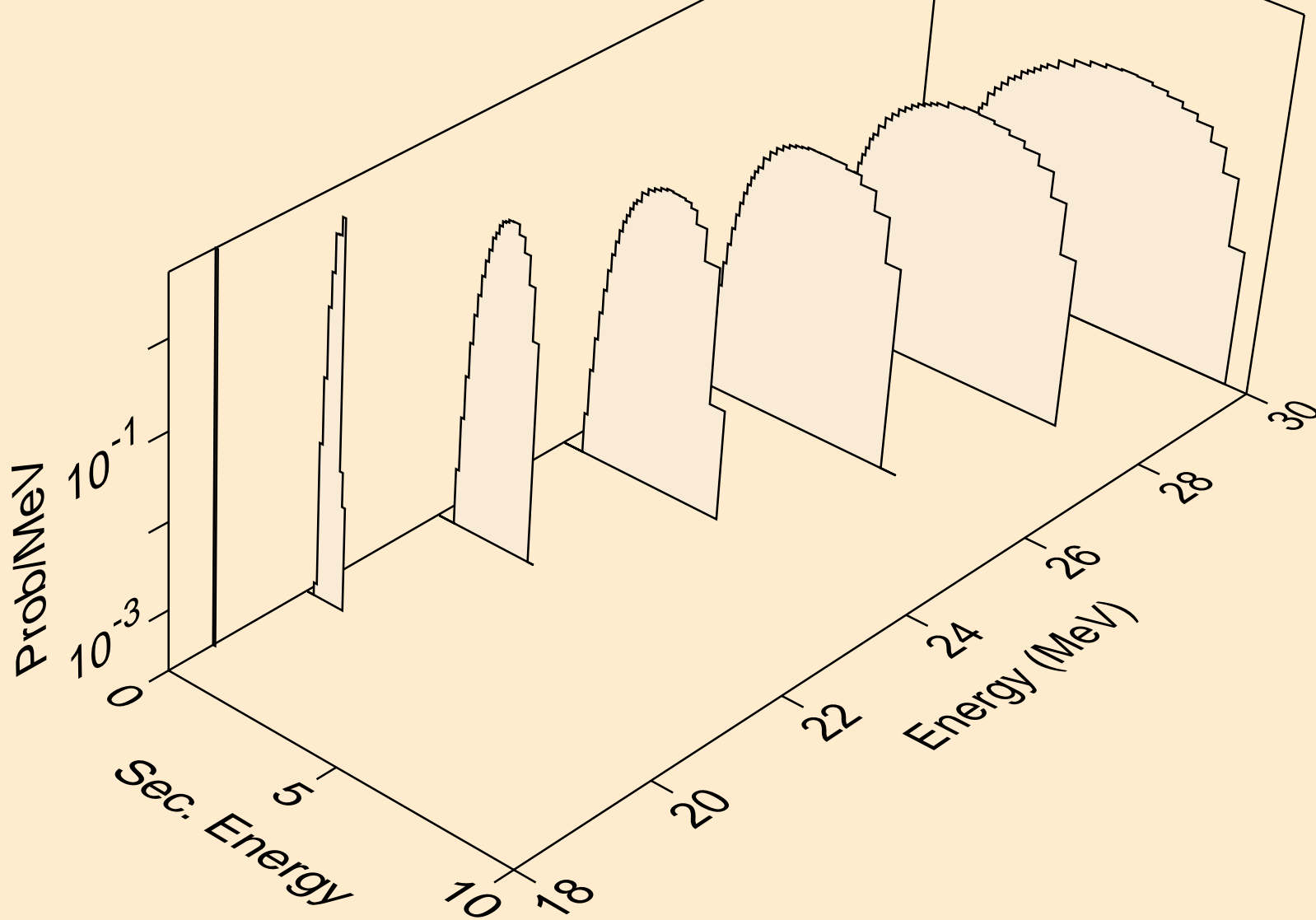
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tritons from (n,t)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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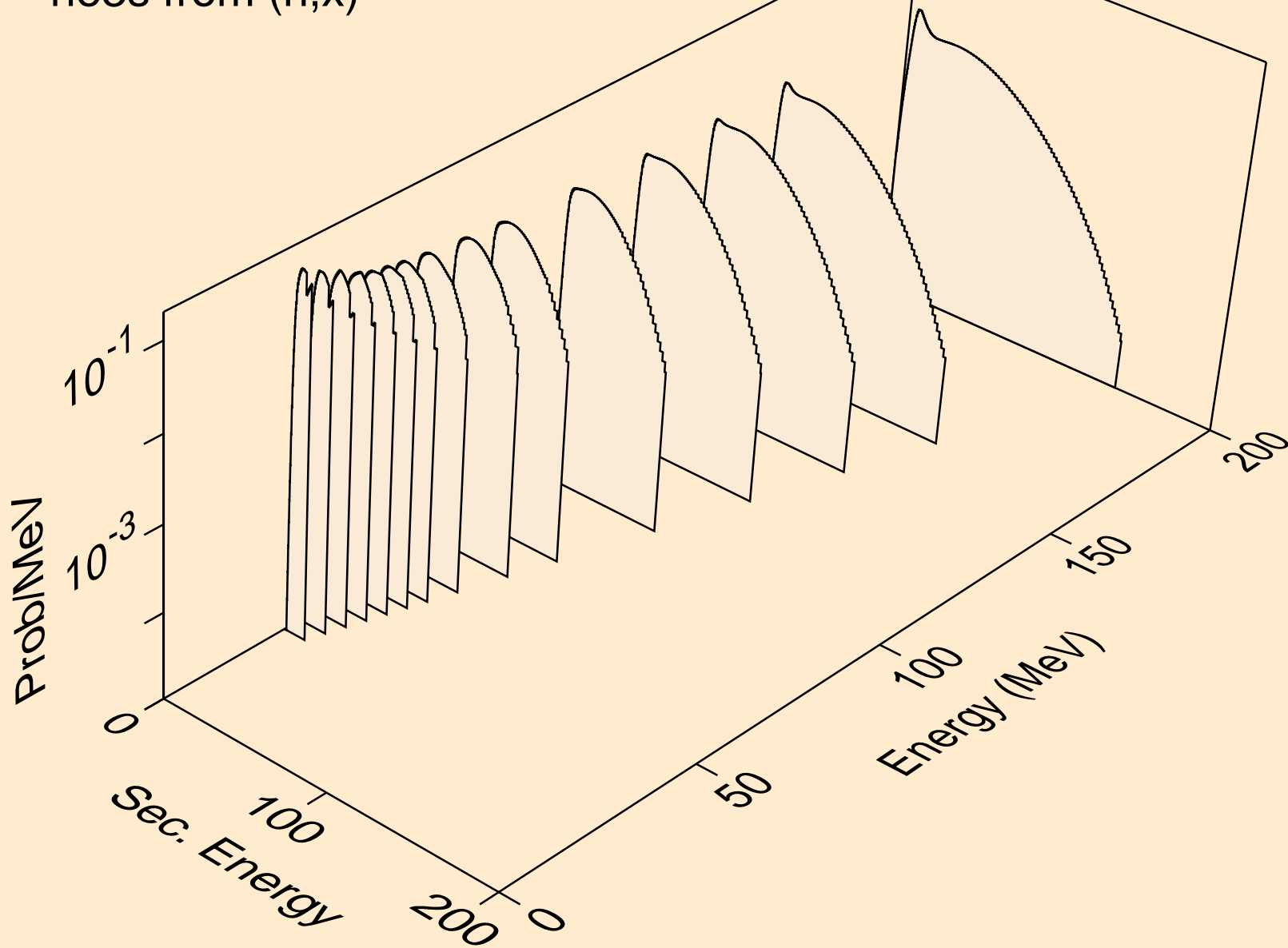


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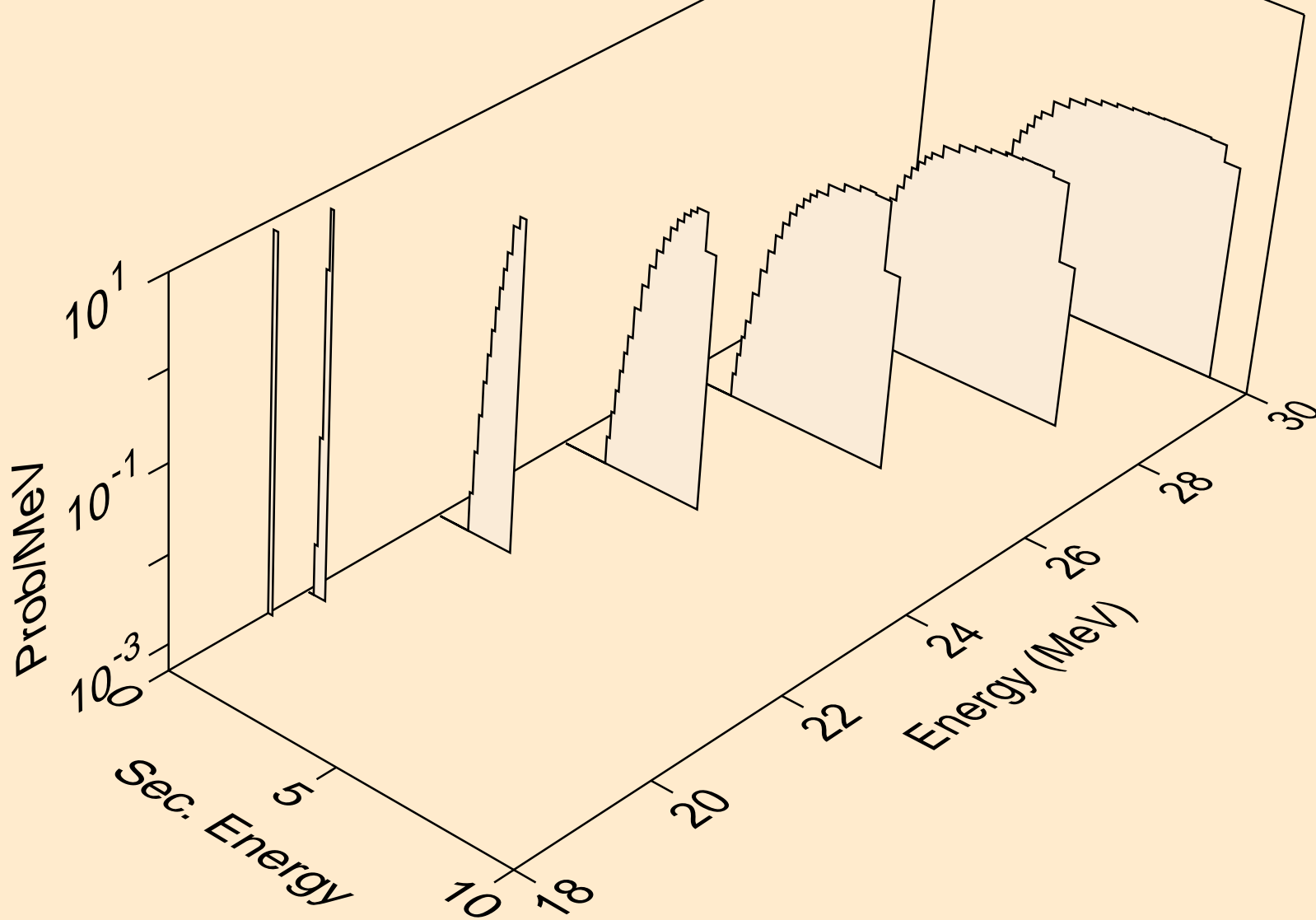




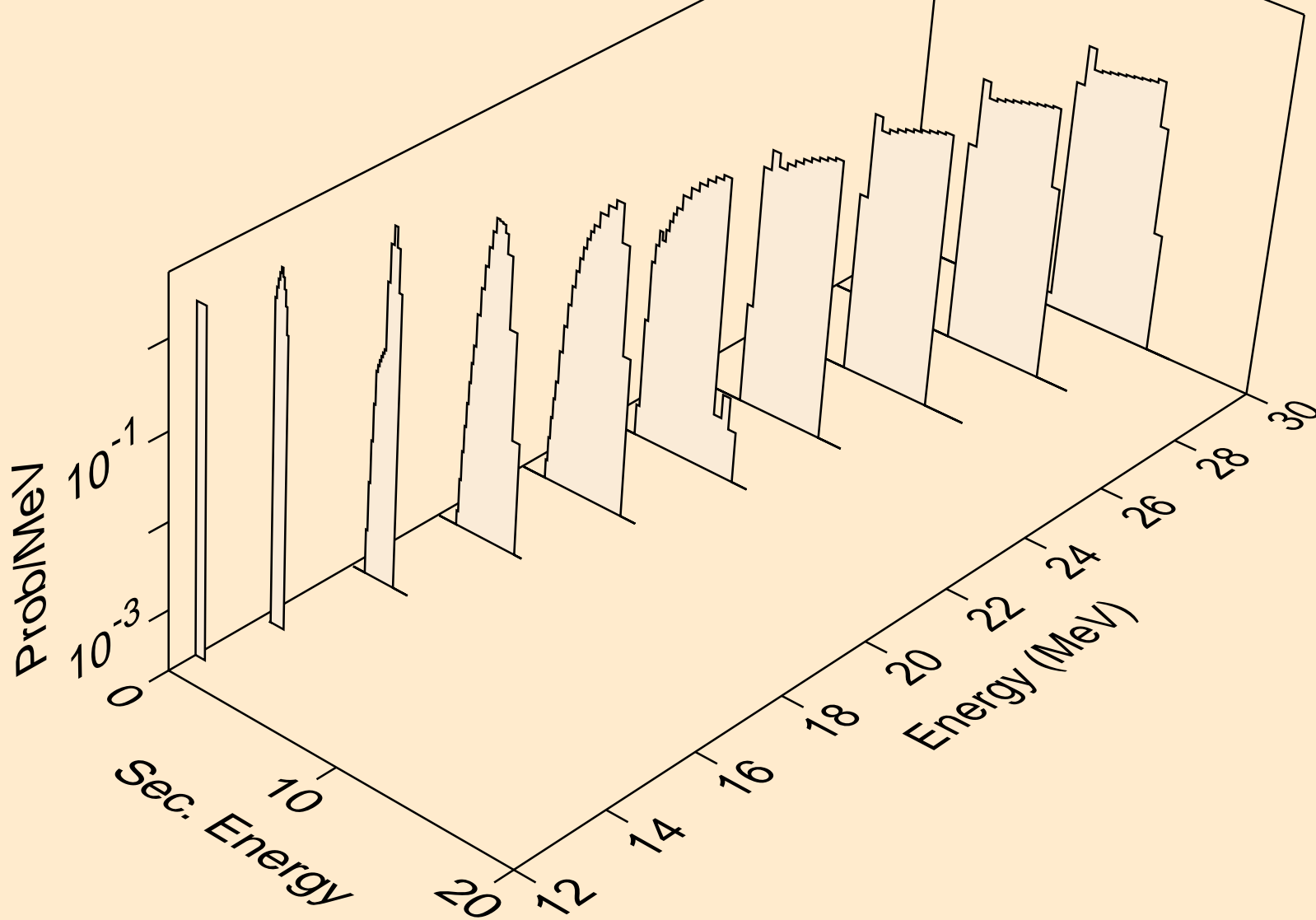
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he3s from (n,x)



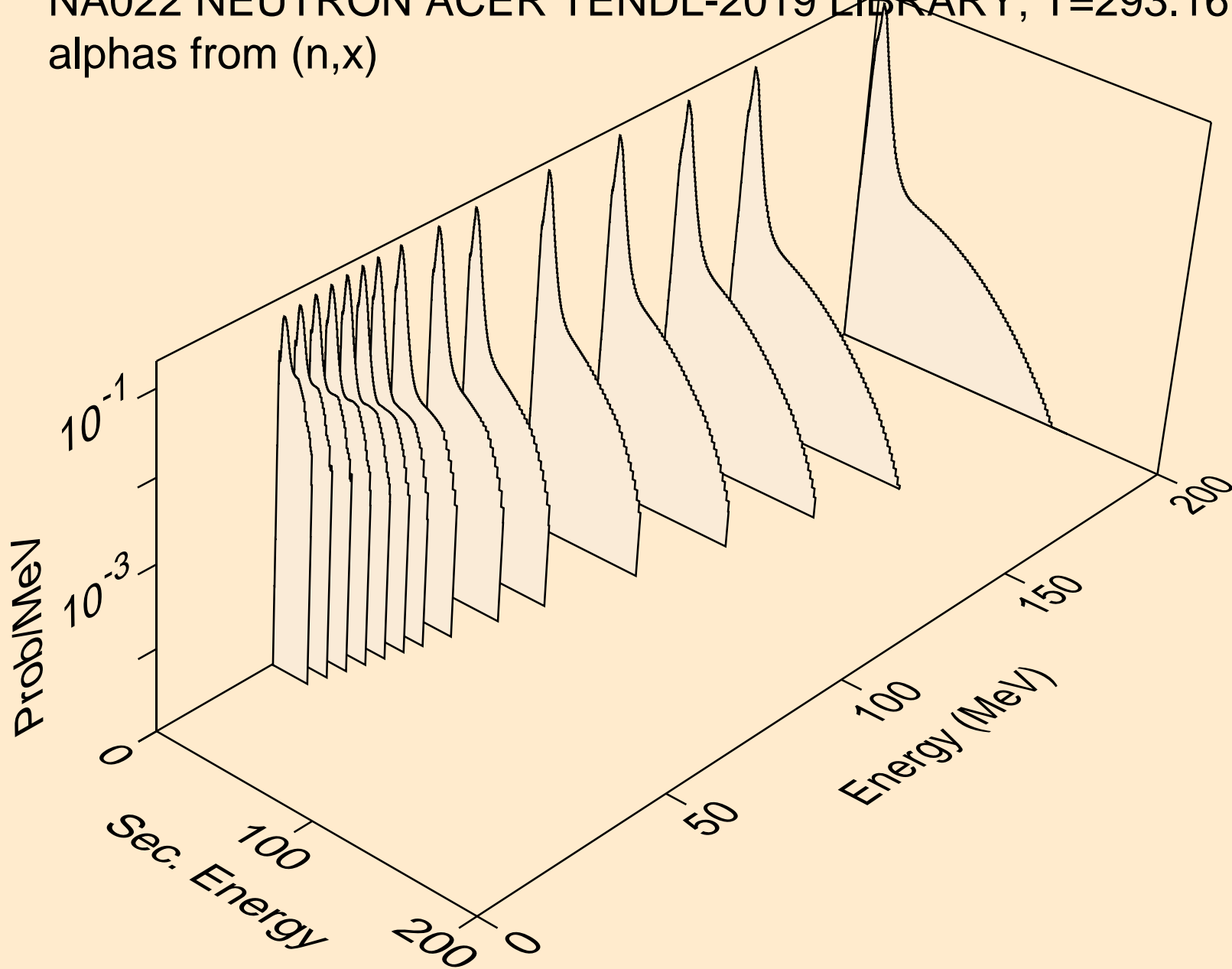
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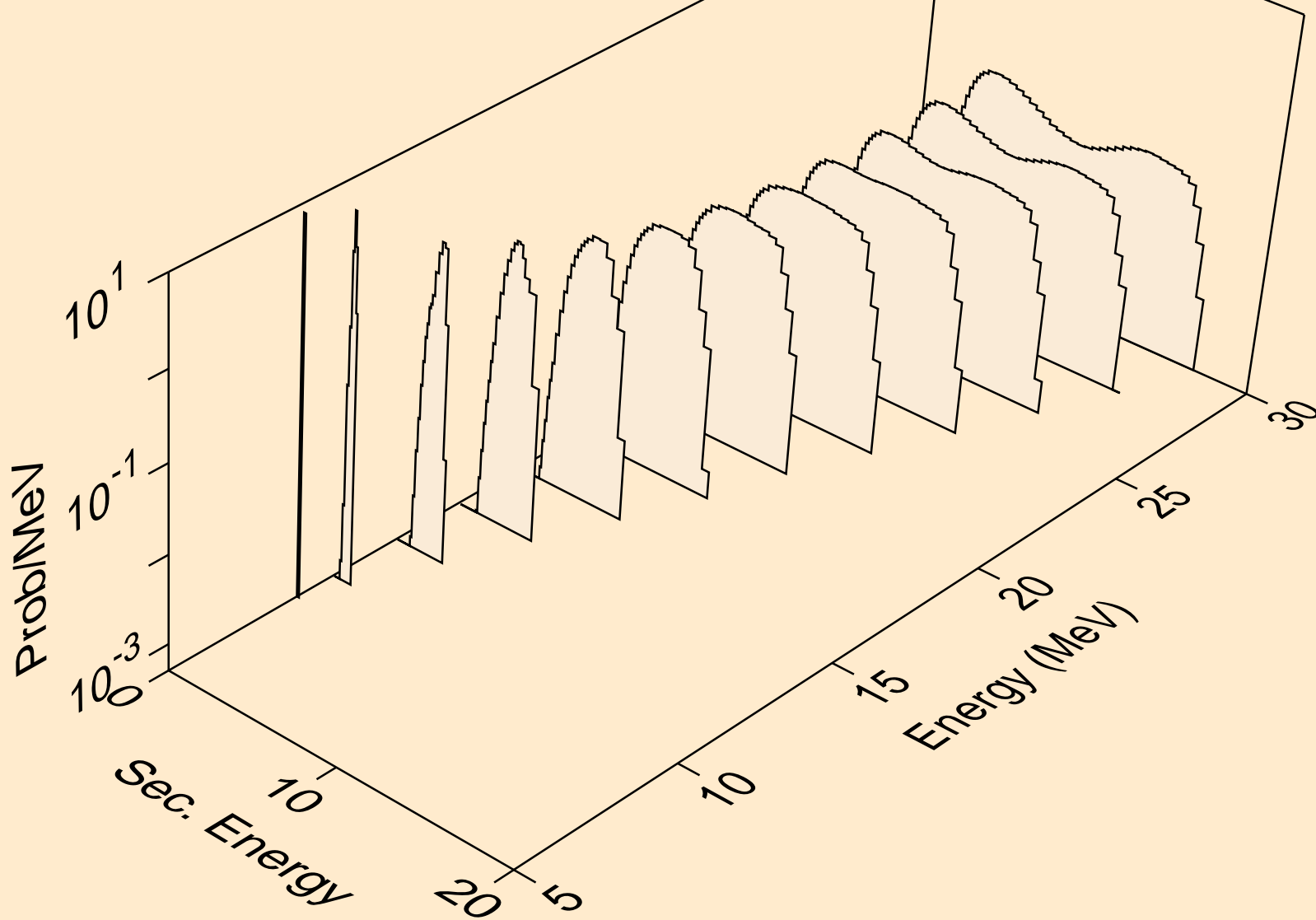
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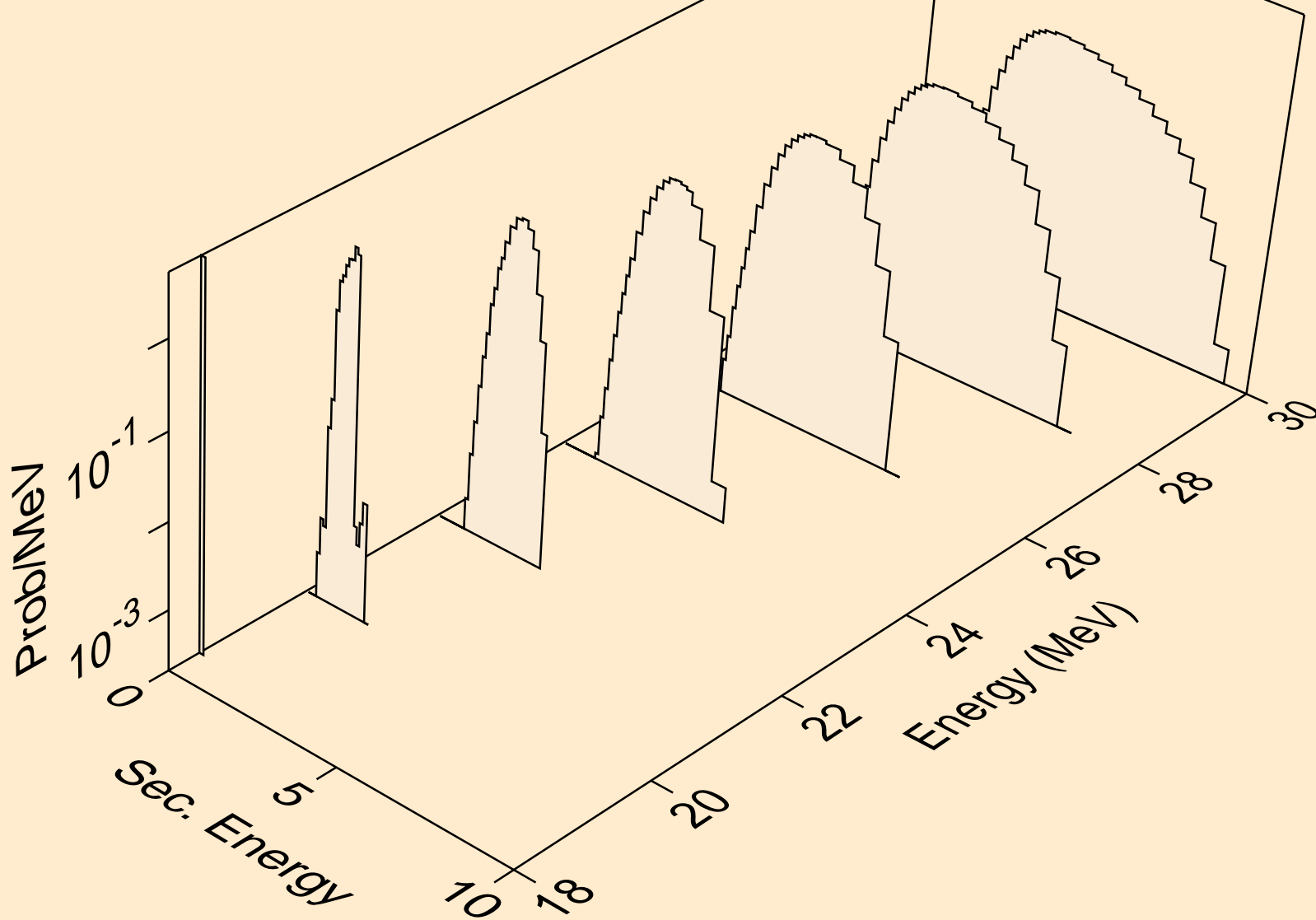
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alphas from (n,x)



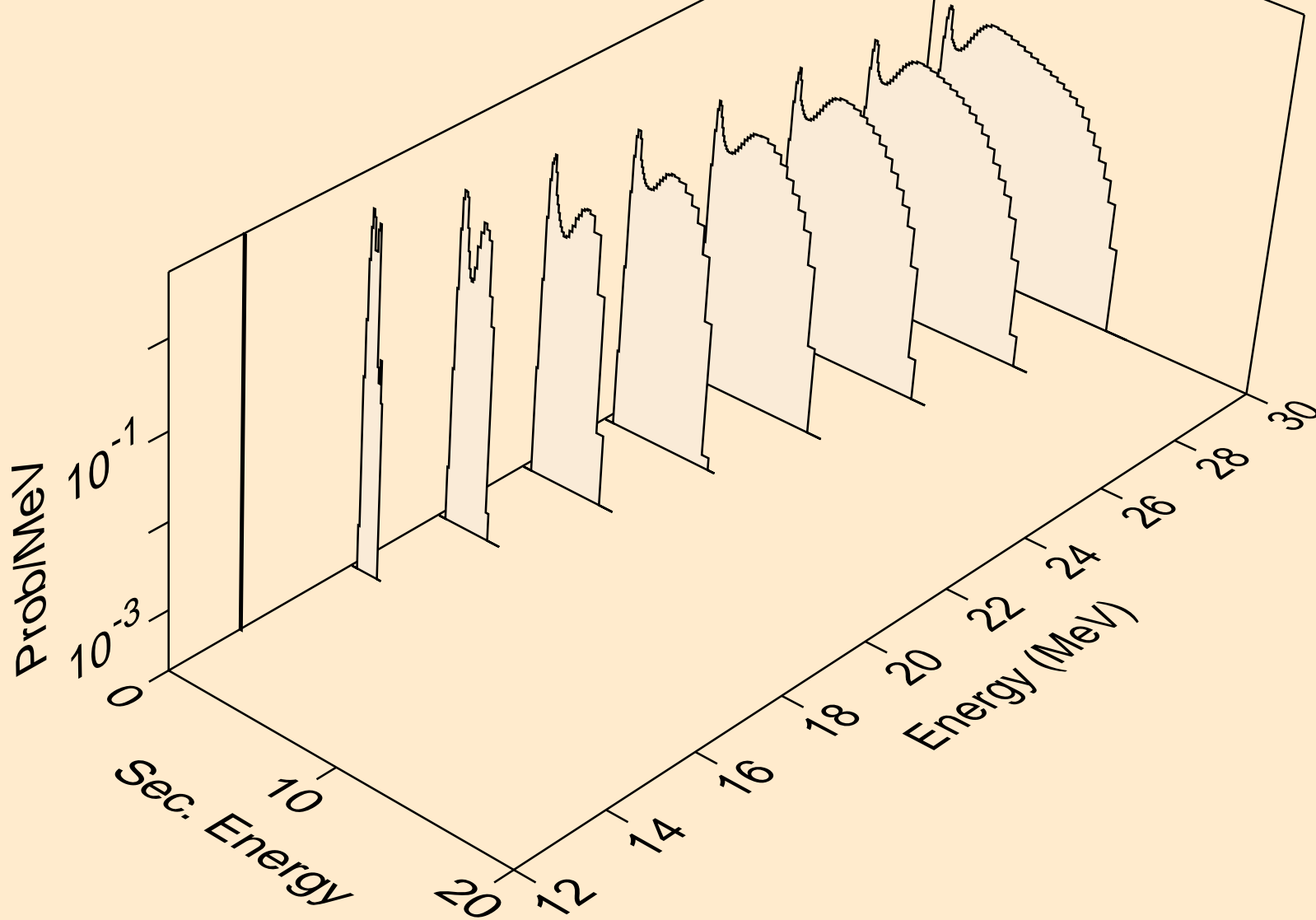
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alphas from (n,n\*)a



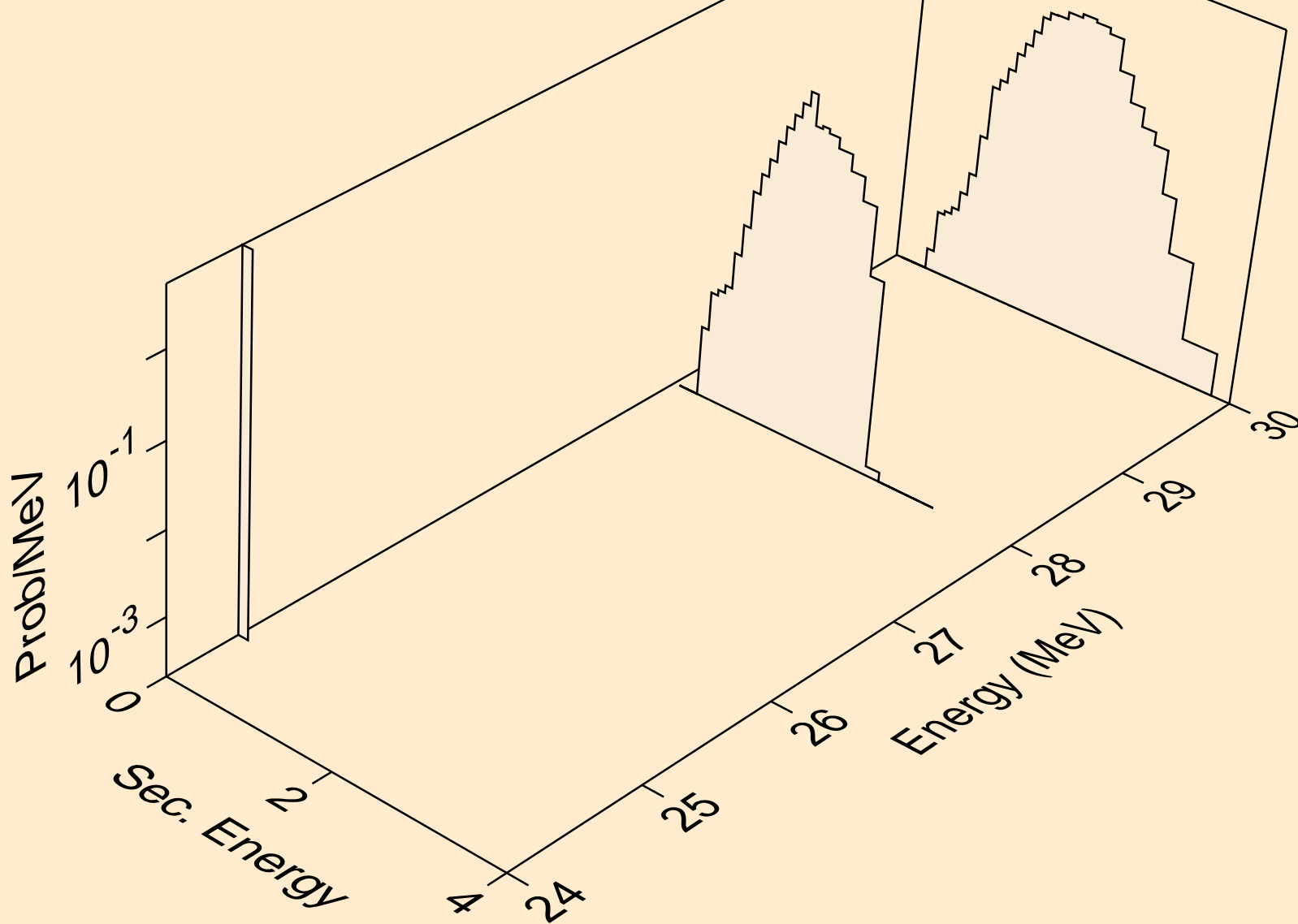
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alphas from (n,2n)a



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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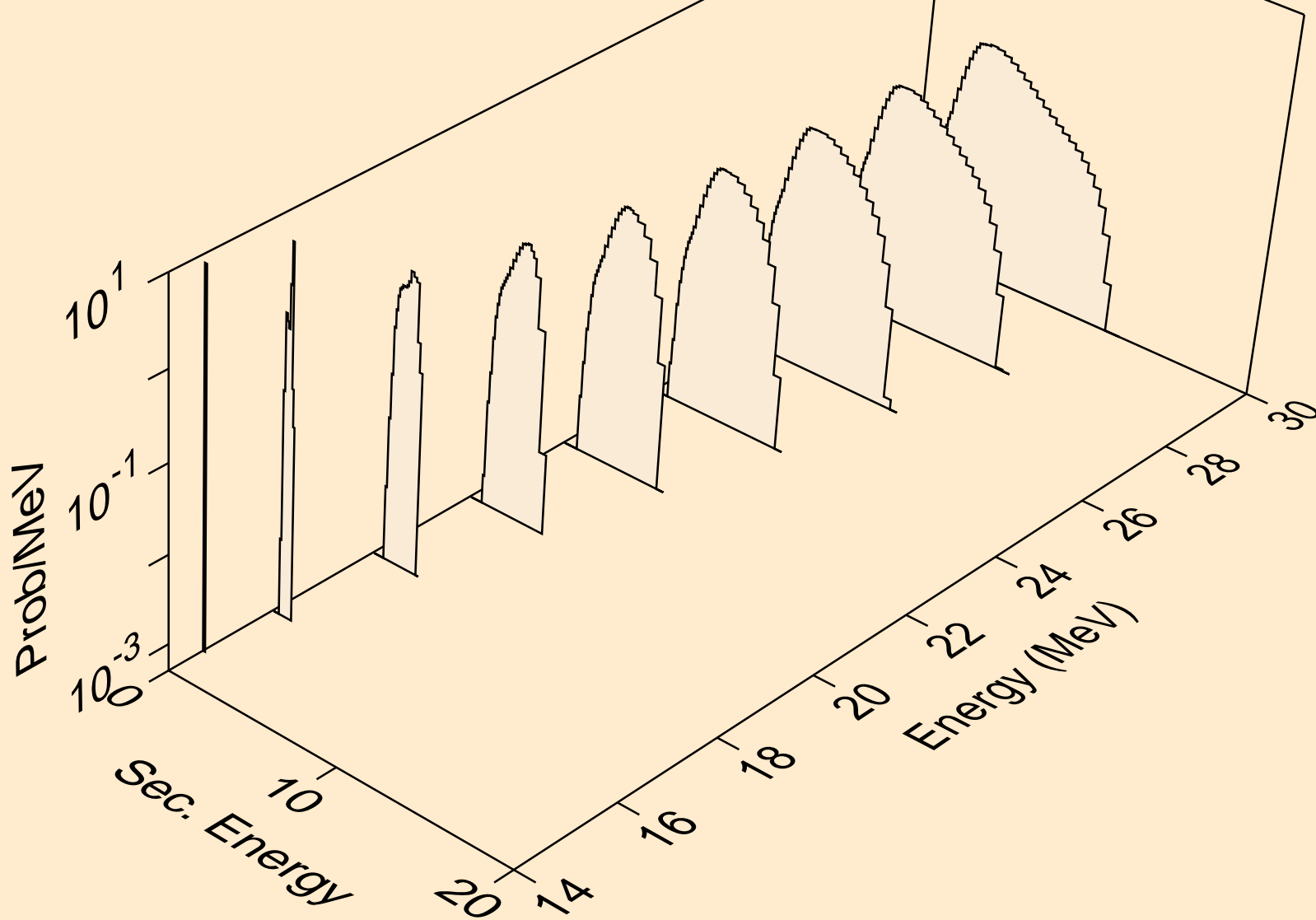


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alphas from (n,2n)2a

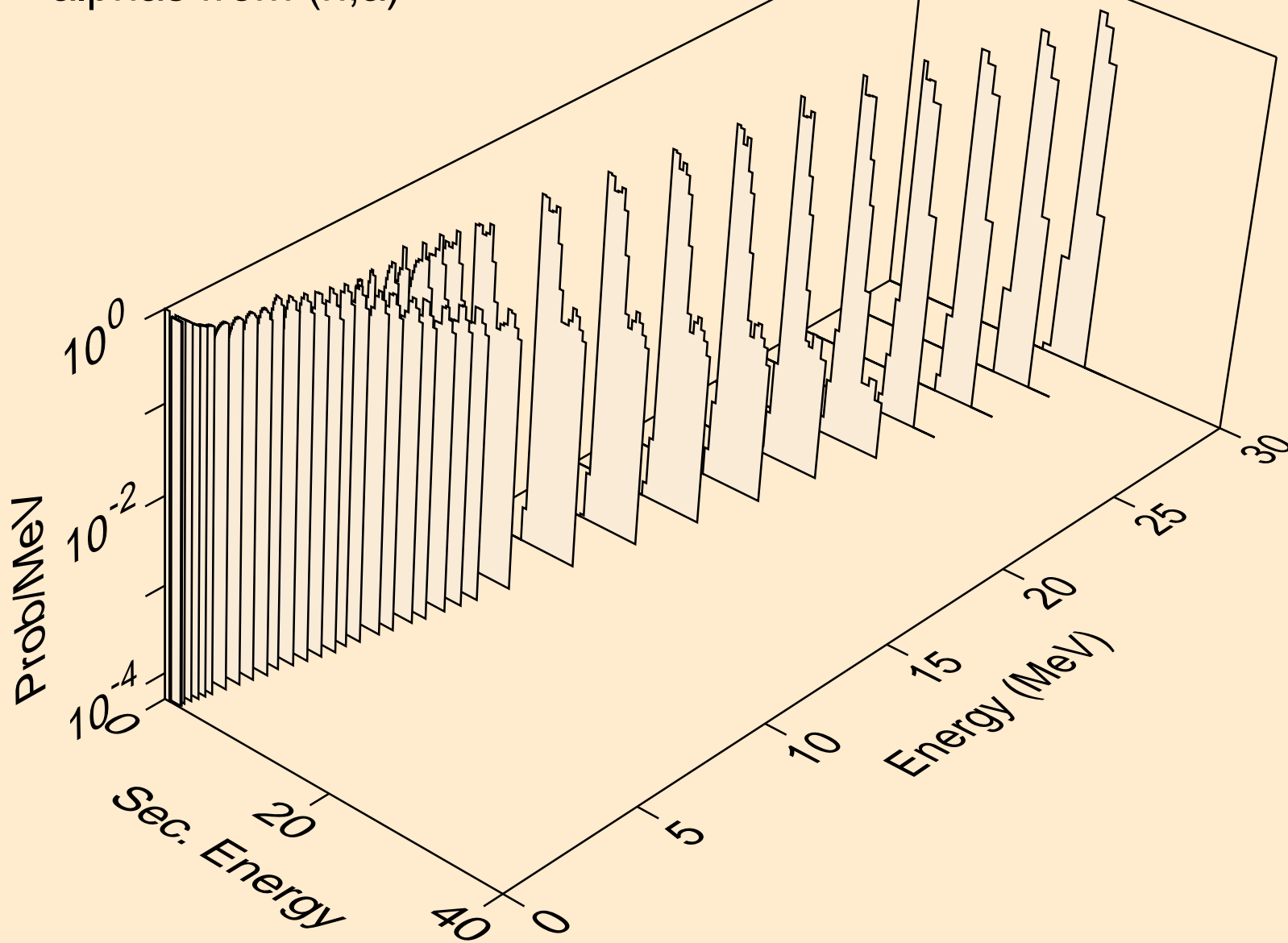




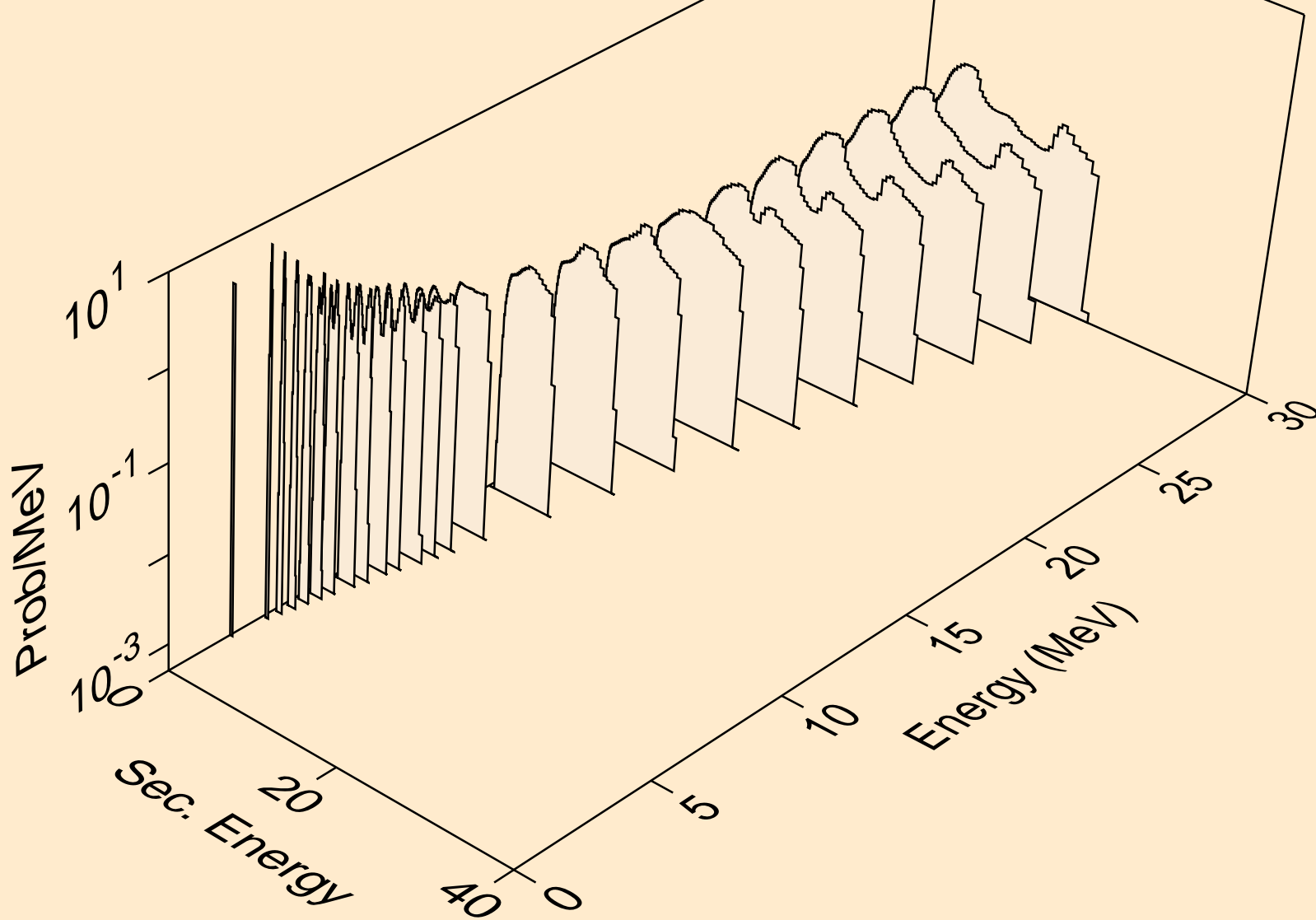
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alphas from (n,npa)



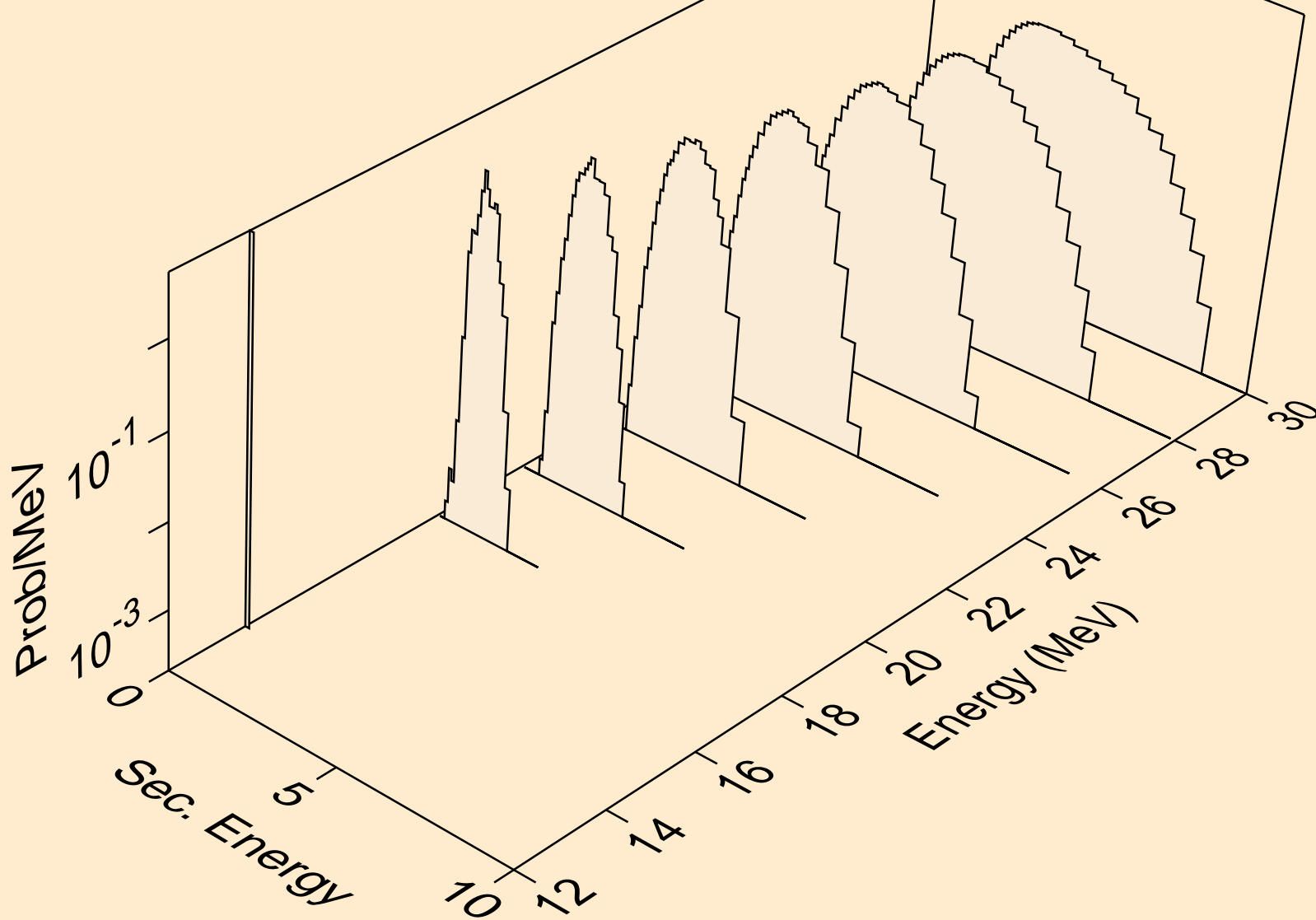
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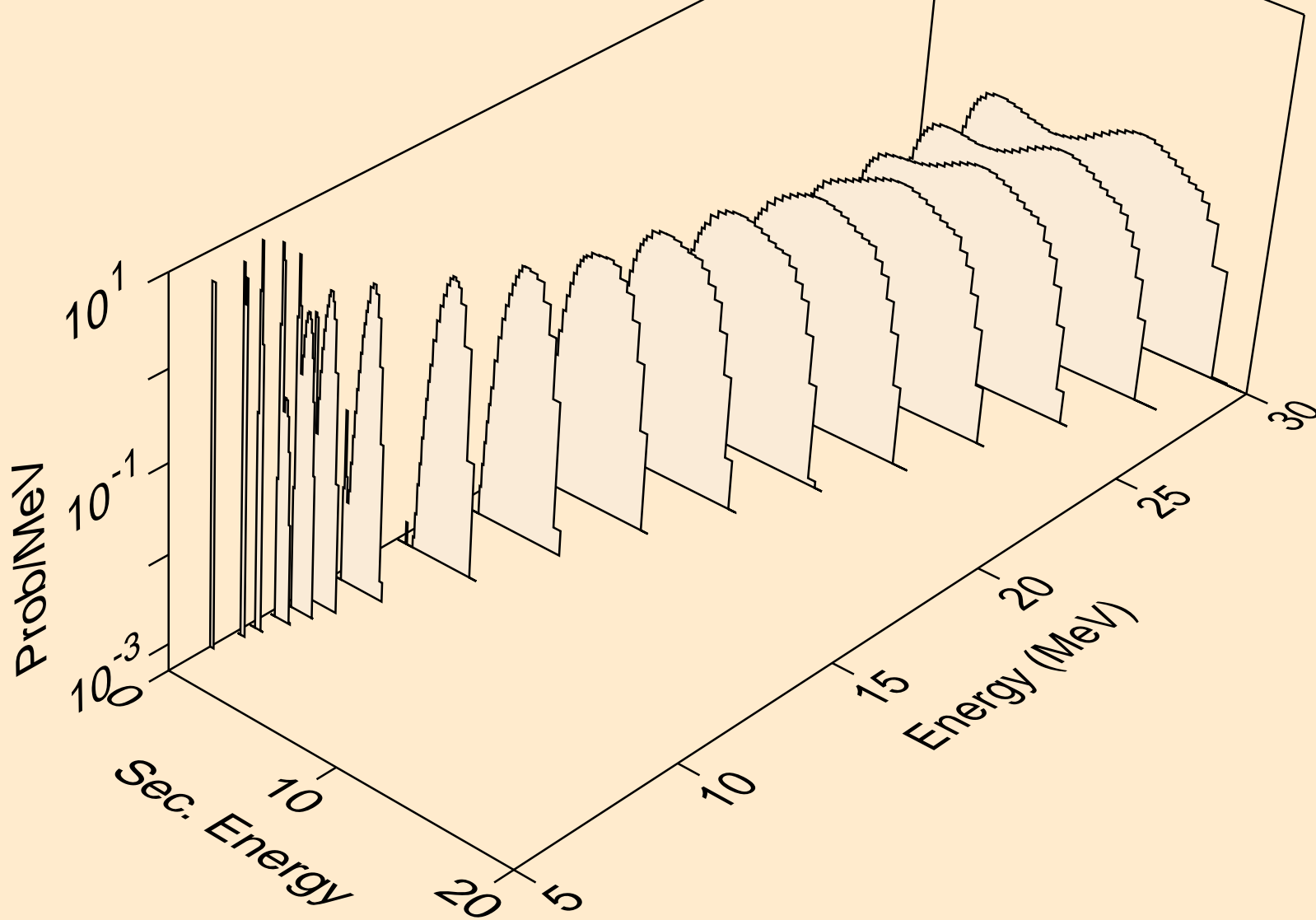
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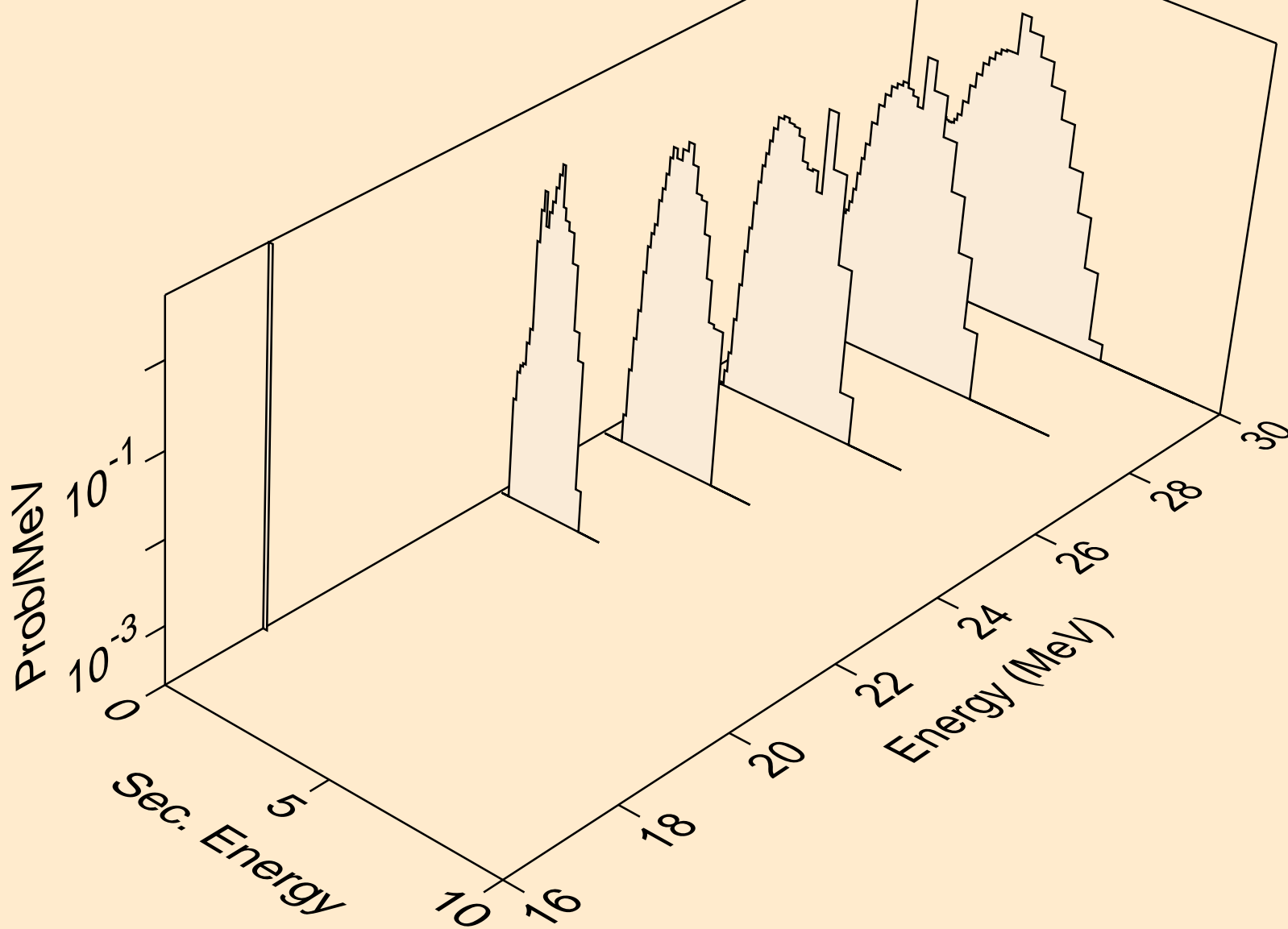
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alphas from (n,3a)



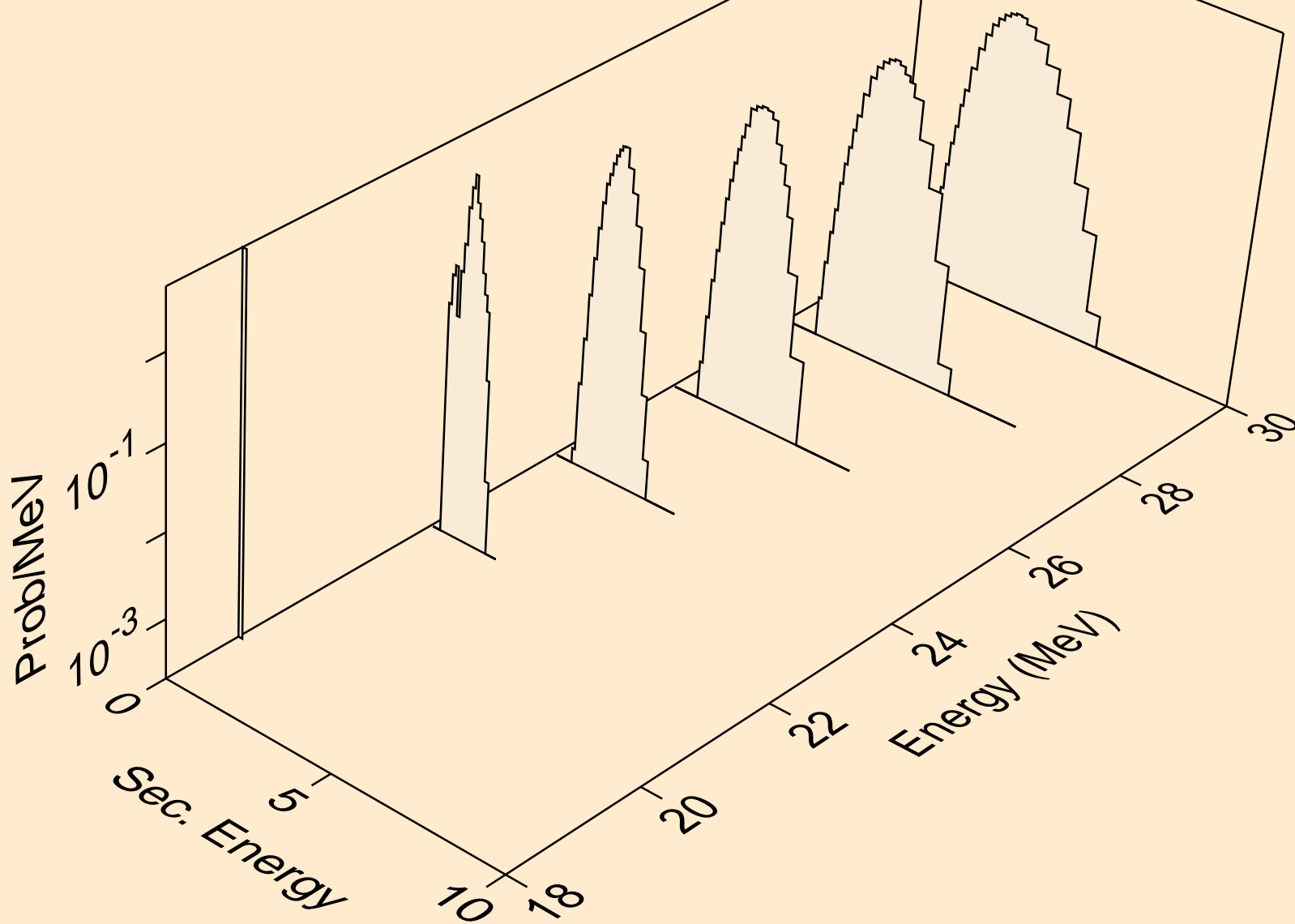
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alphas from (n,pa)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,t2a)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,d2a)



NA022 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

