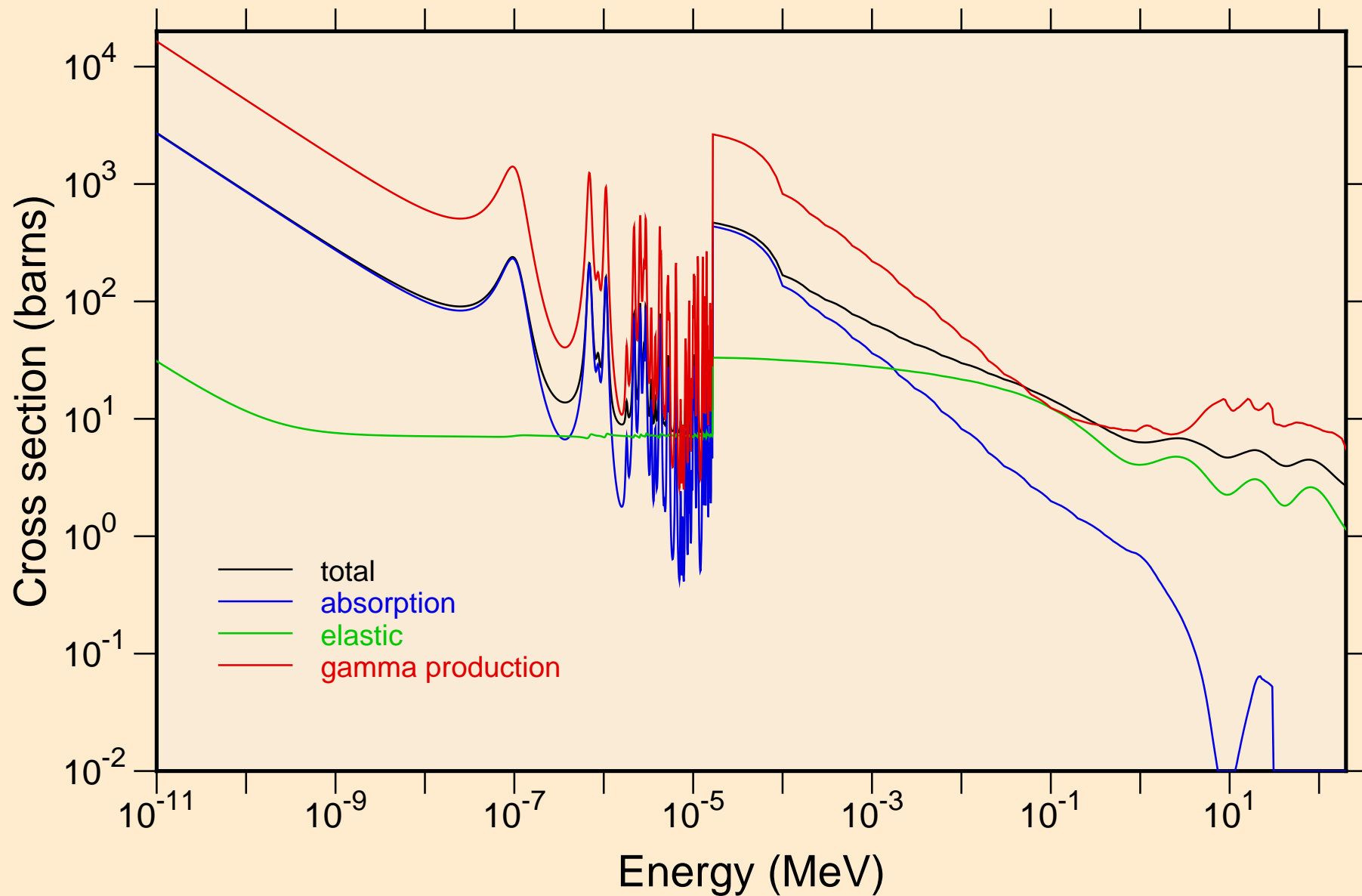
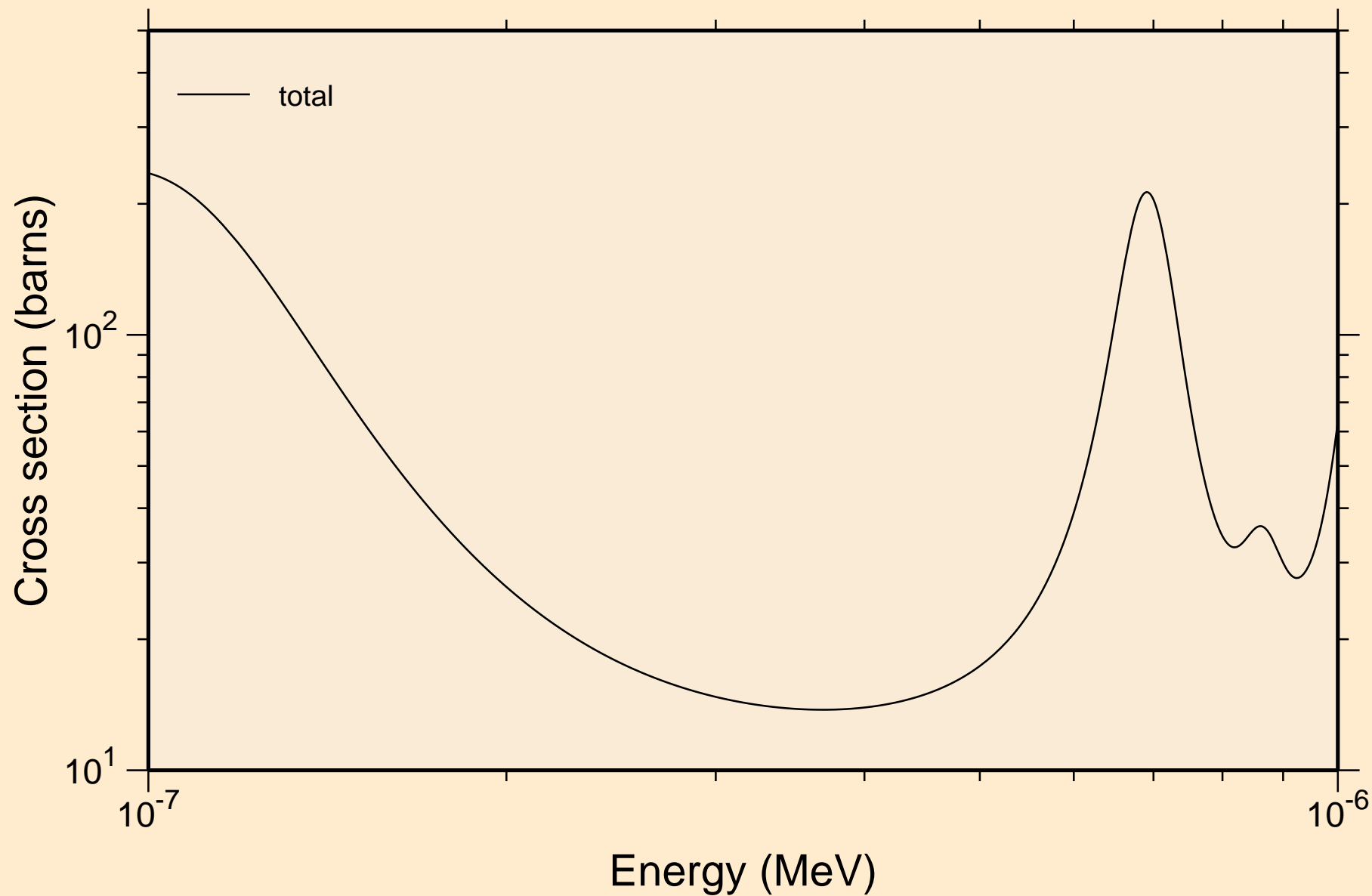


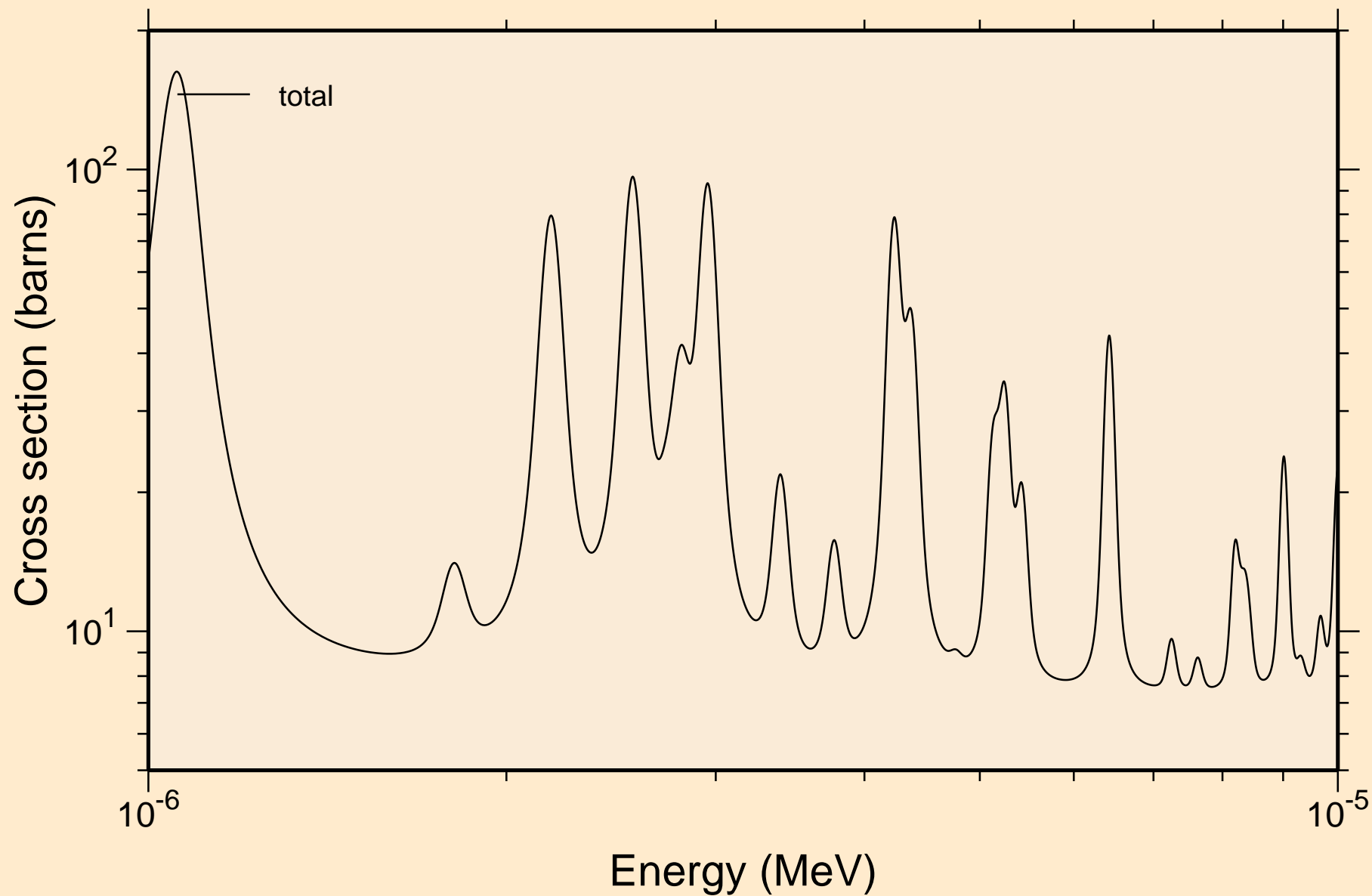
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Principal cross sections



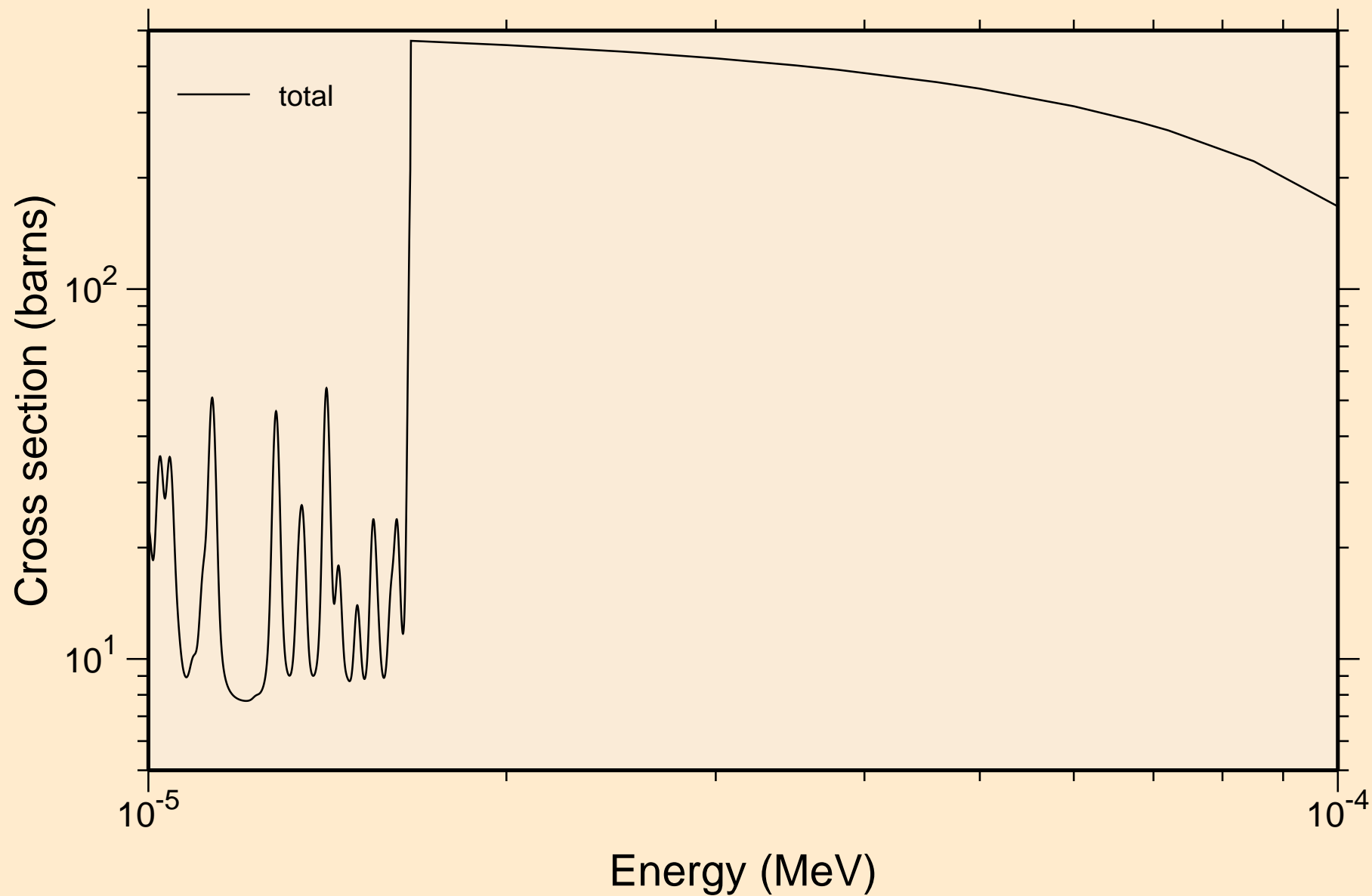
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resonance total cross section



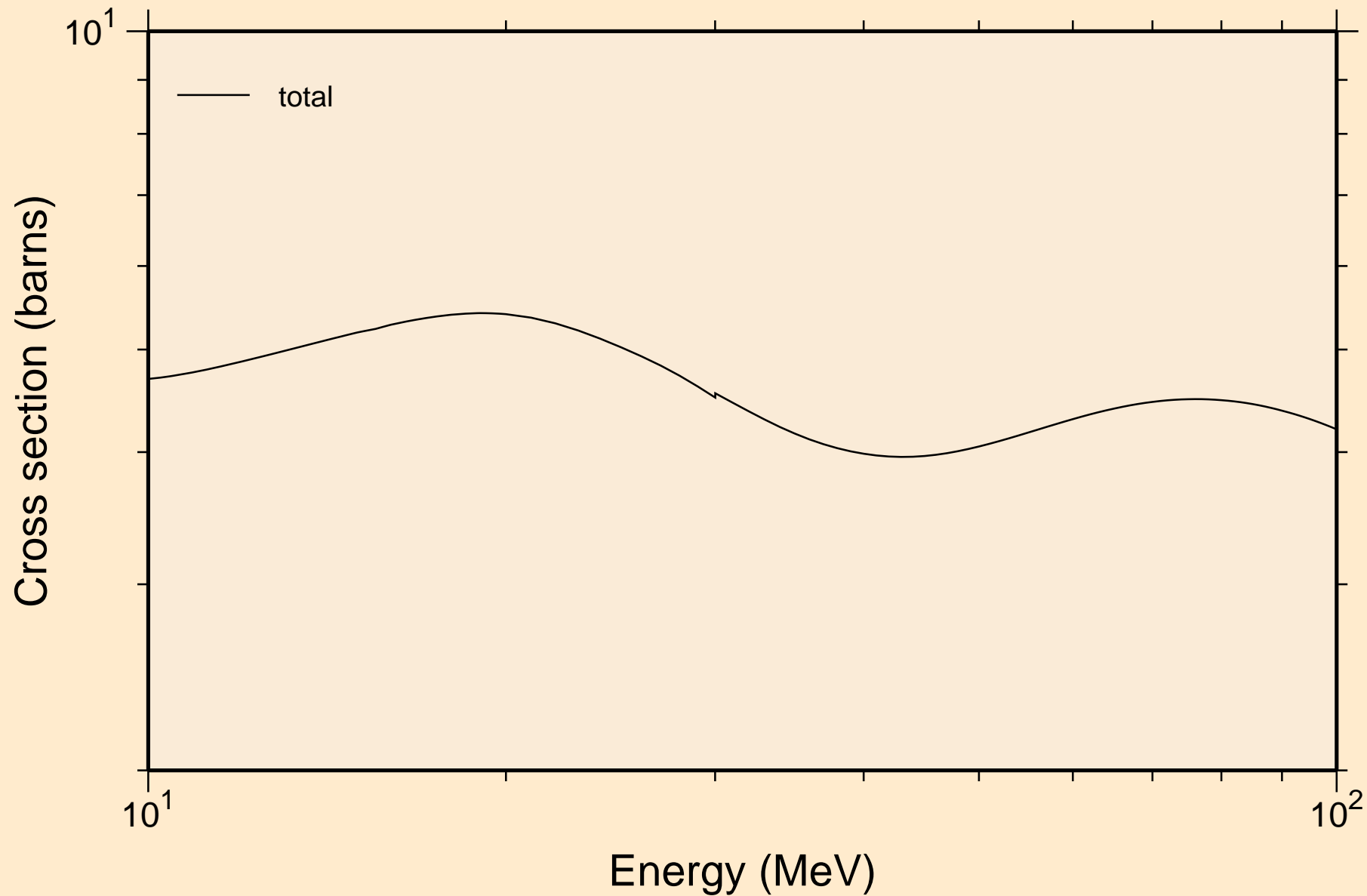
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resonance total cross section



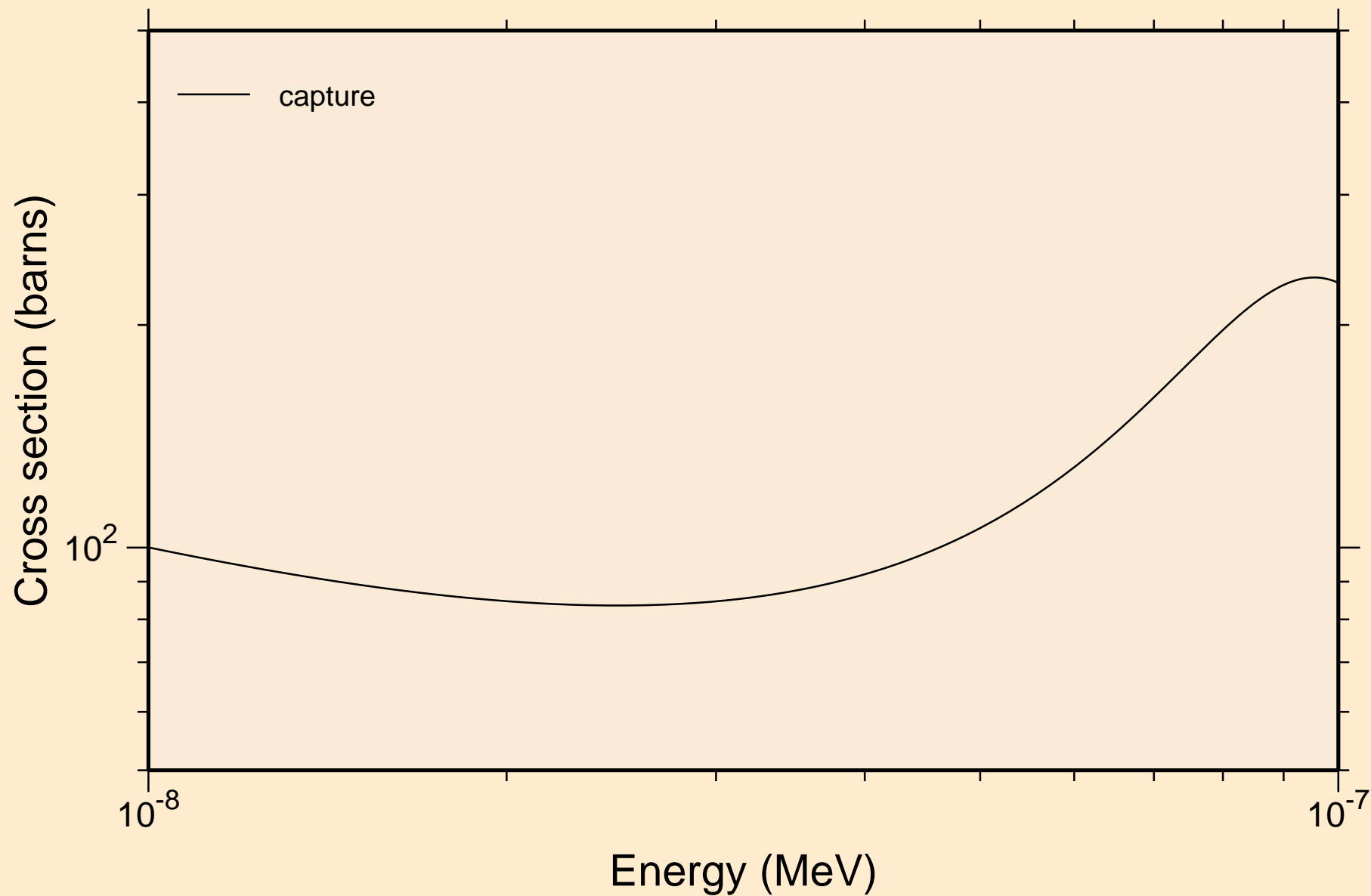
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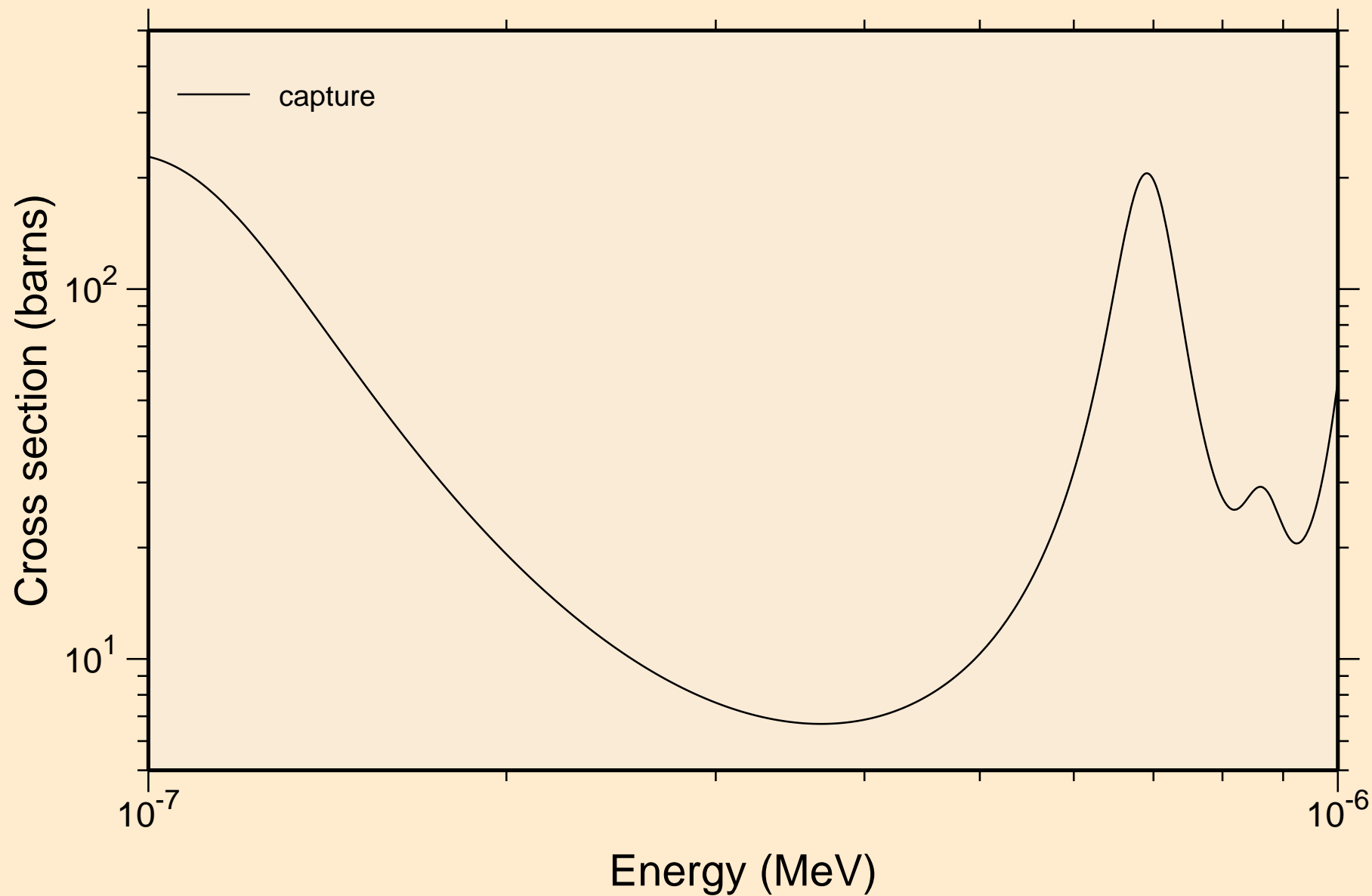
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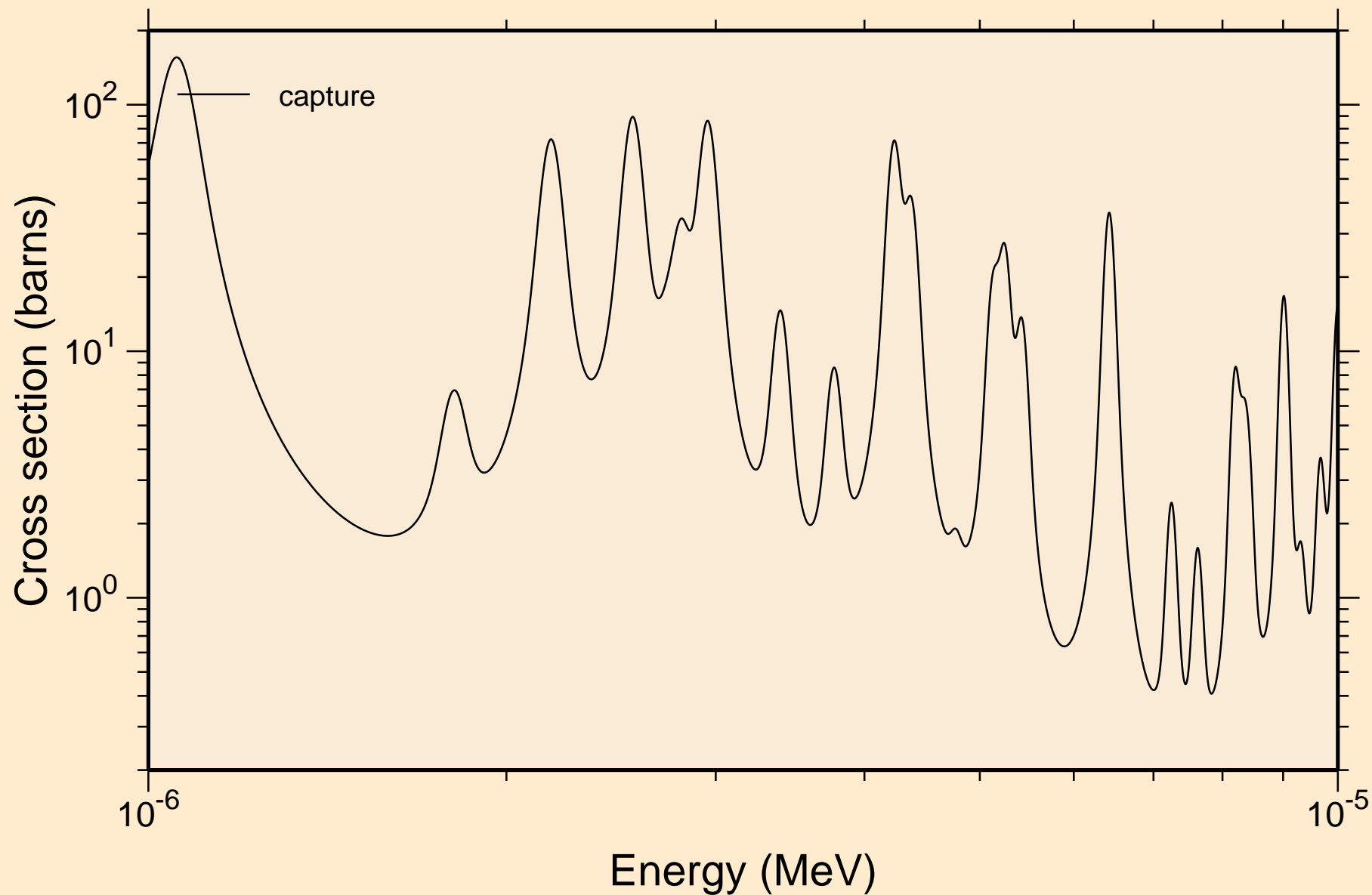
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resonance absorption cross sections



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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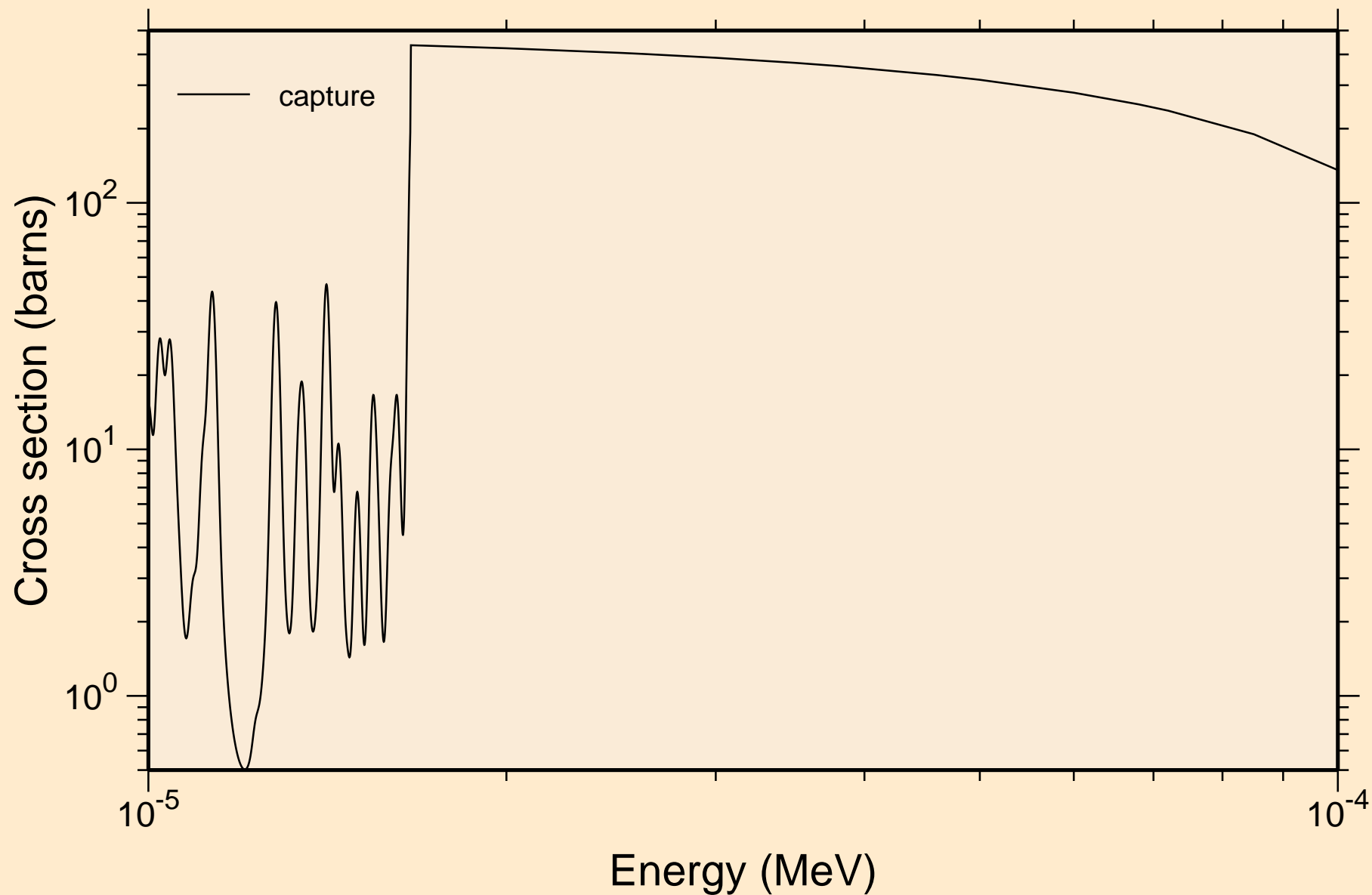


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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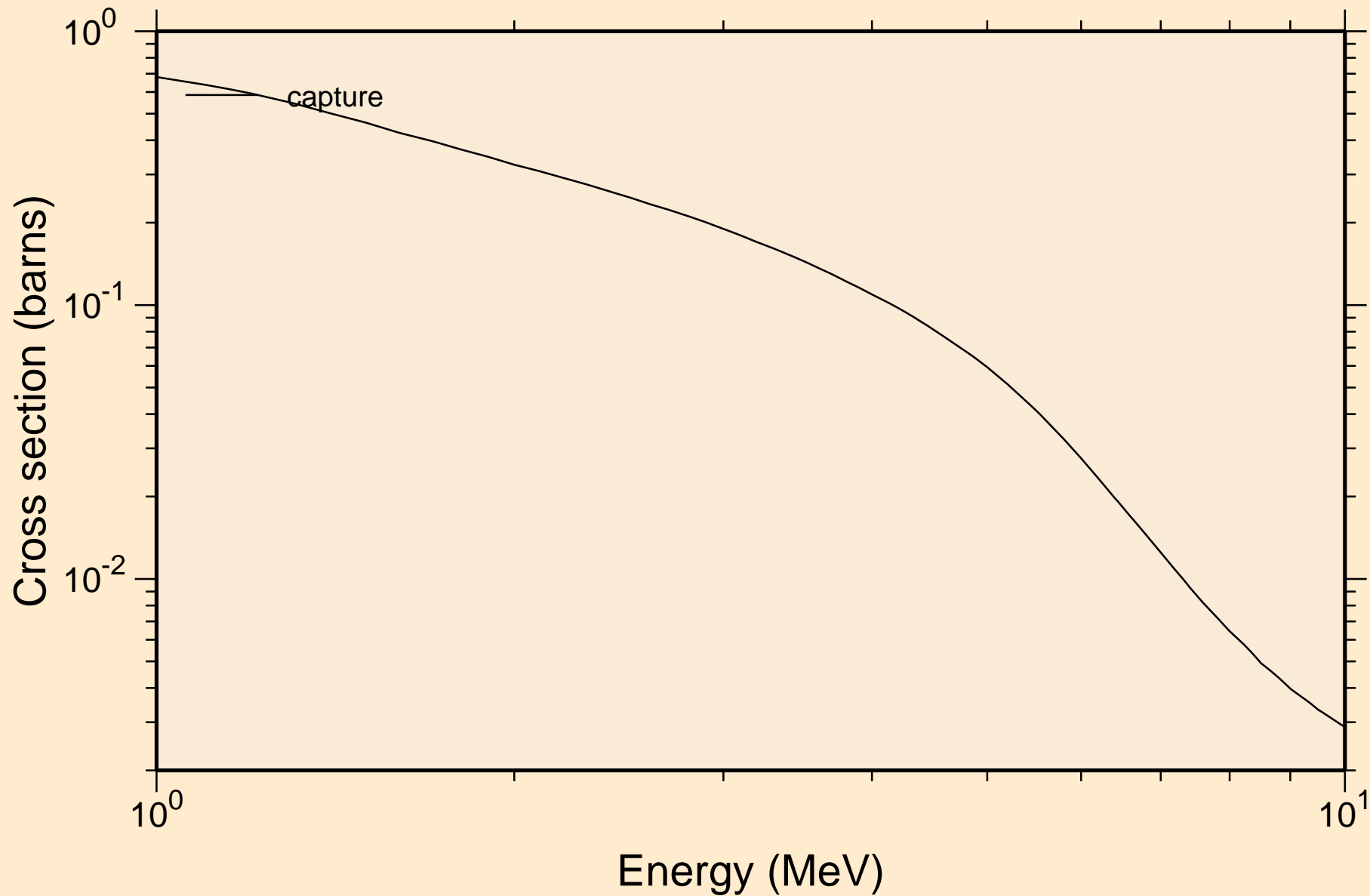




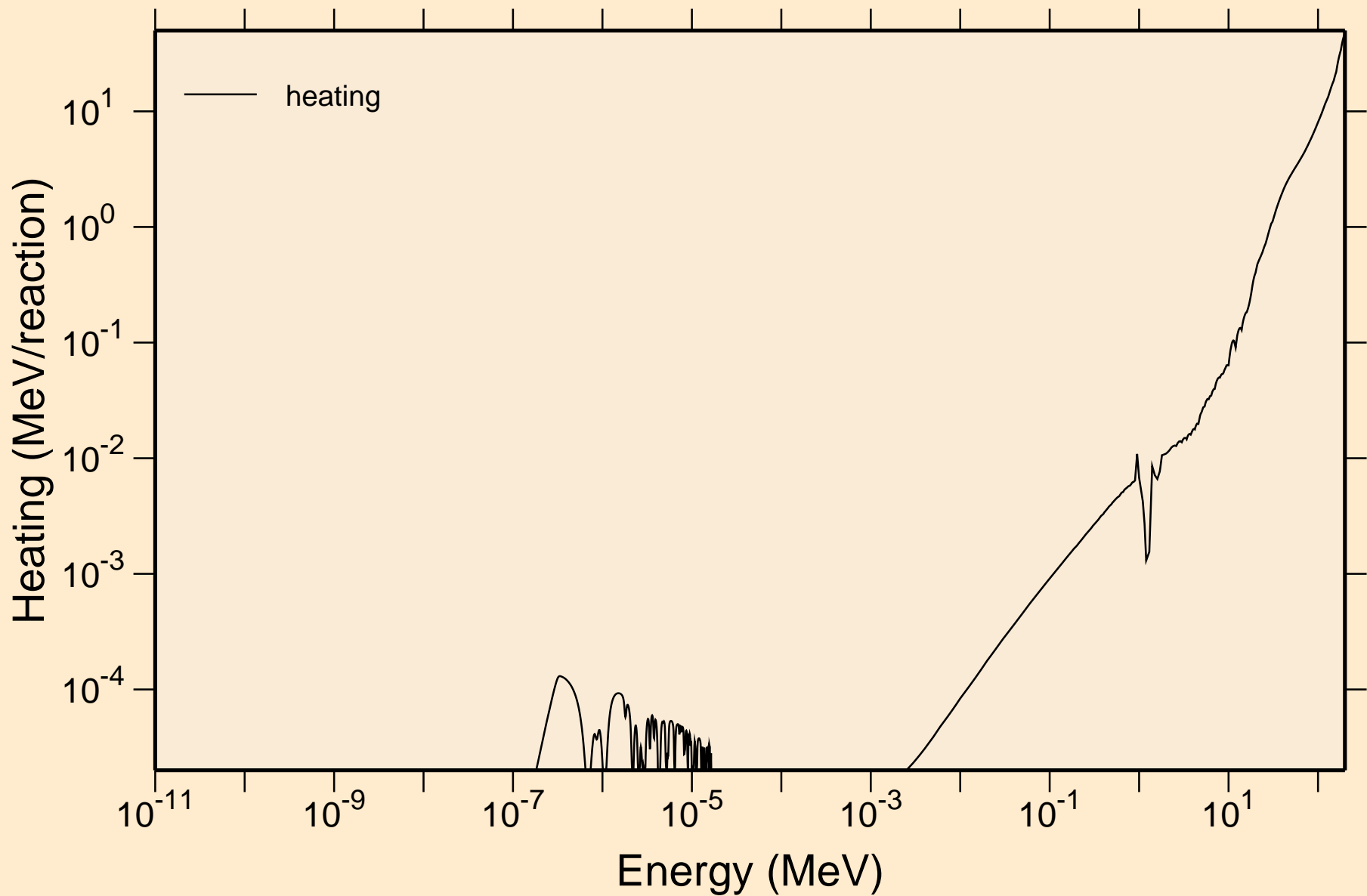
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resonance absorption cross sections



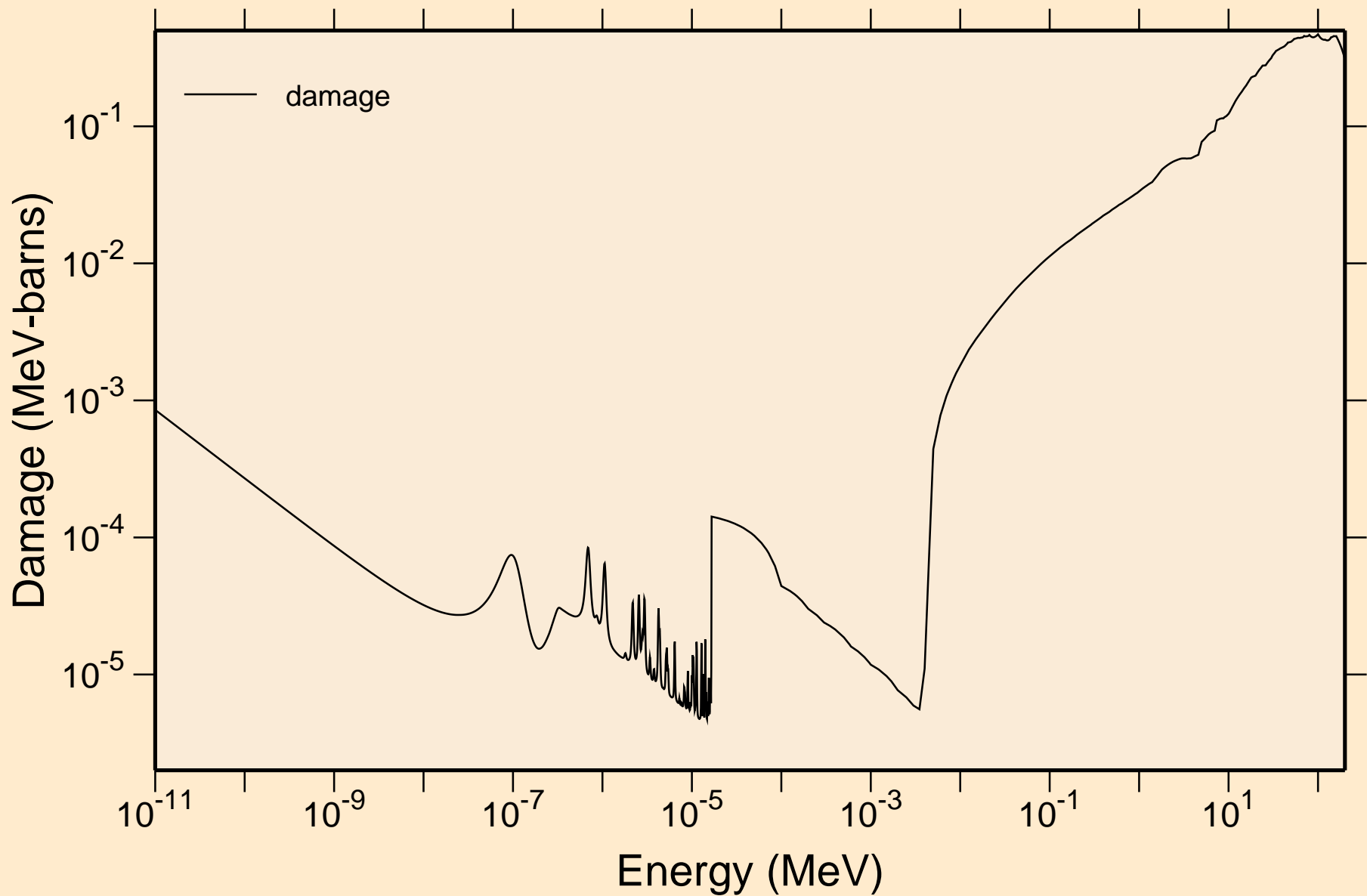
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resonance absorption cross sections



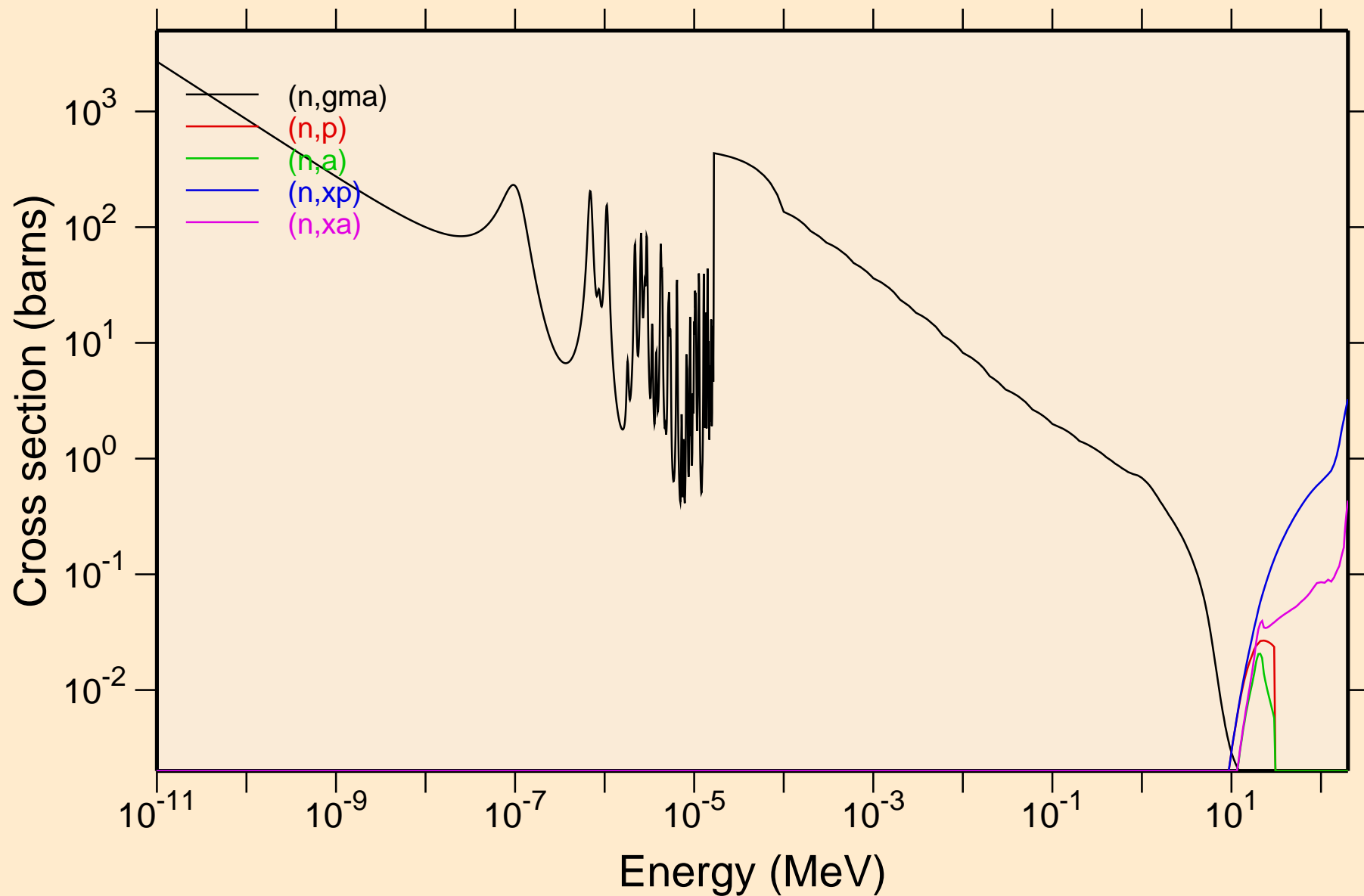
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Heating



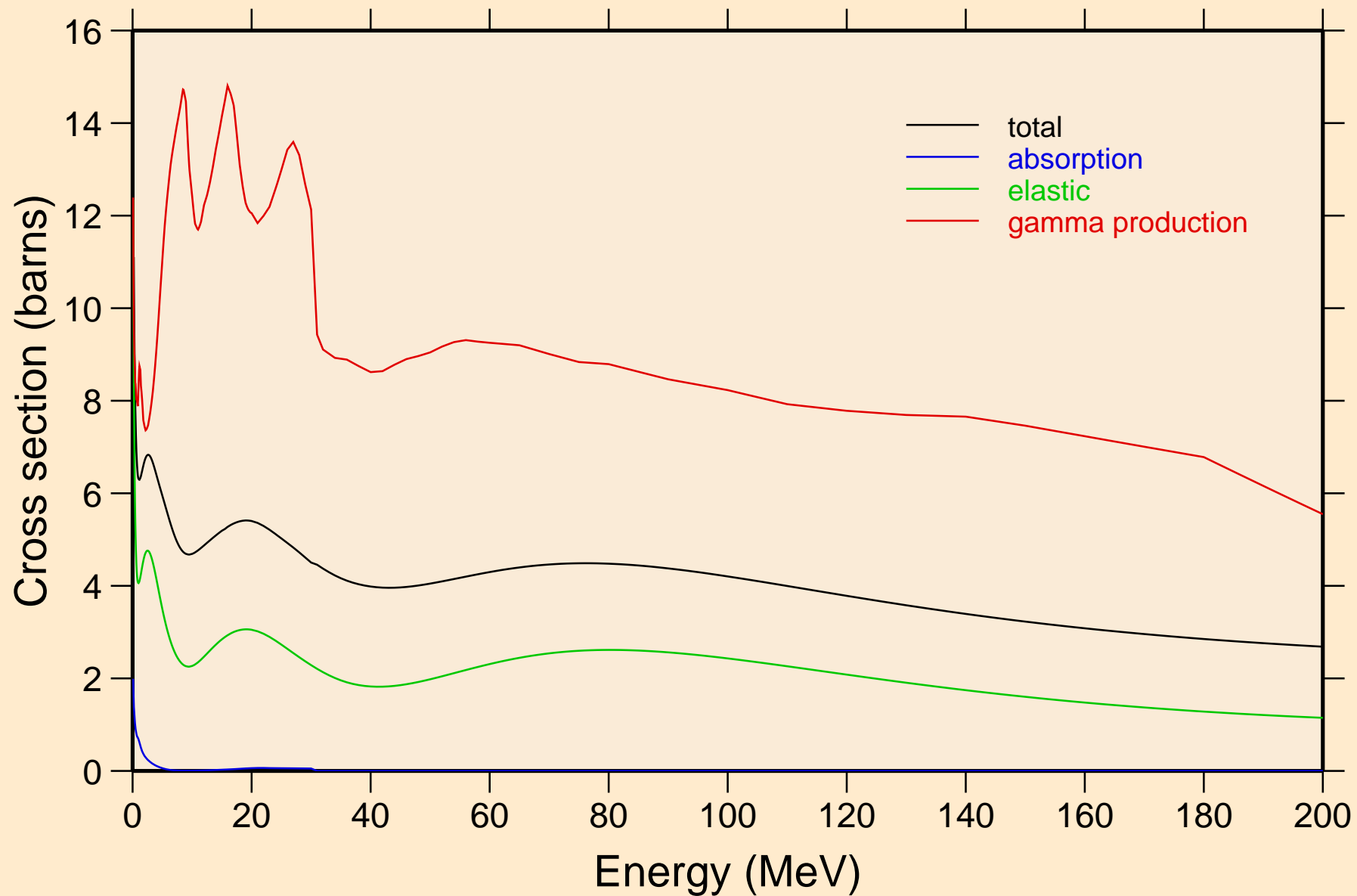
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Damage



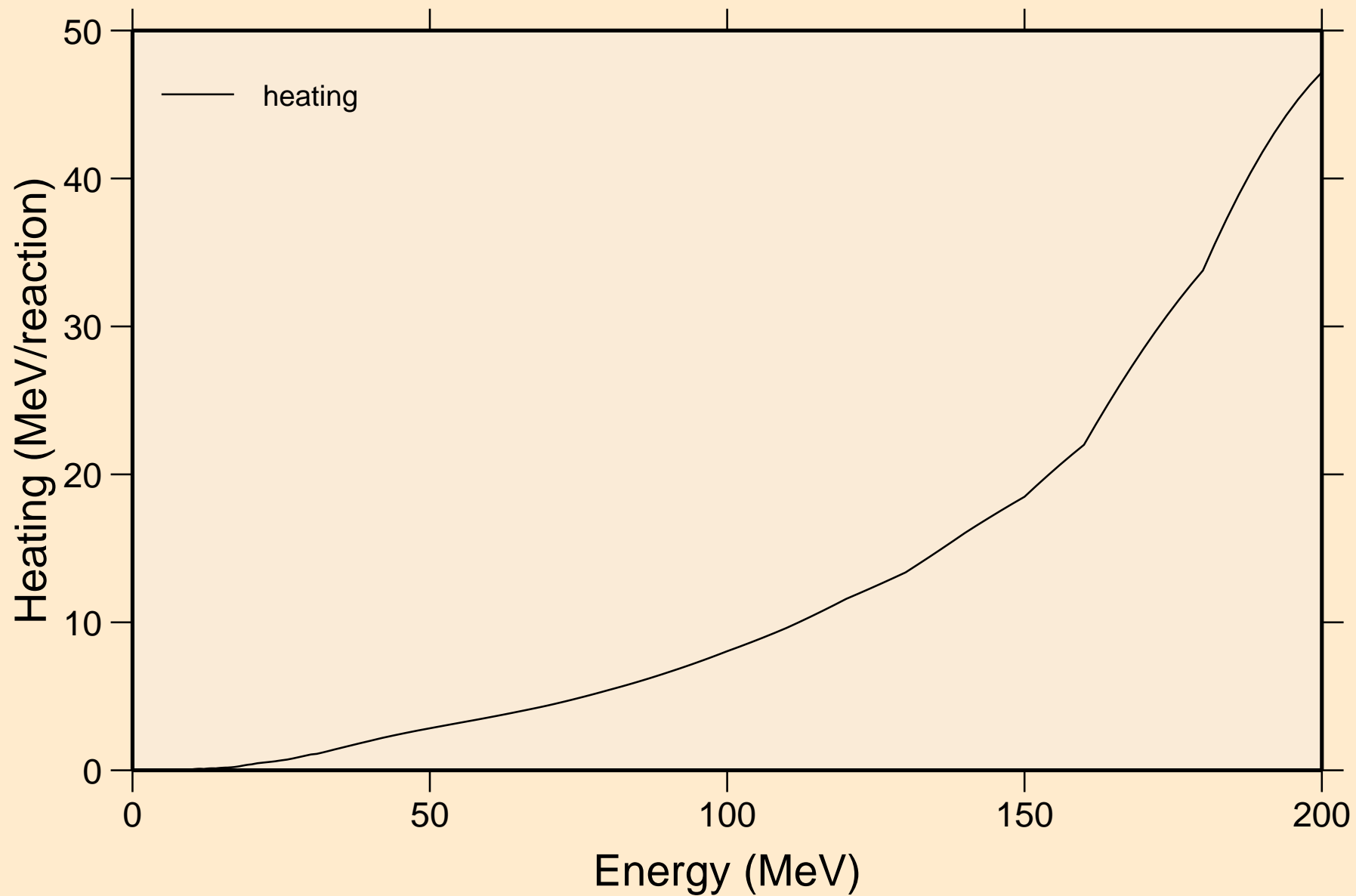
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Non-threshold reactions



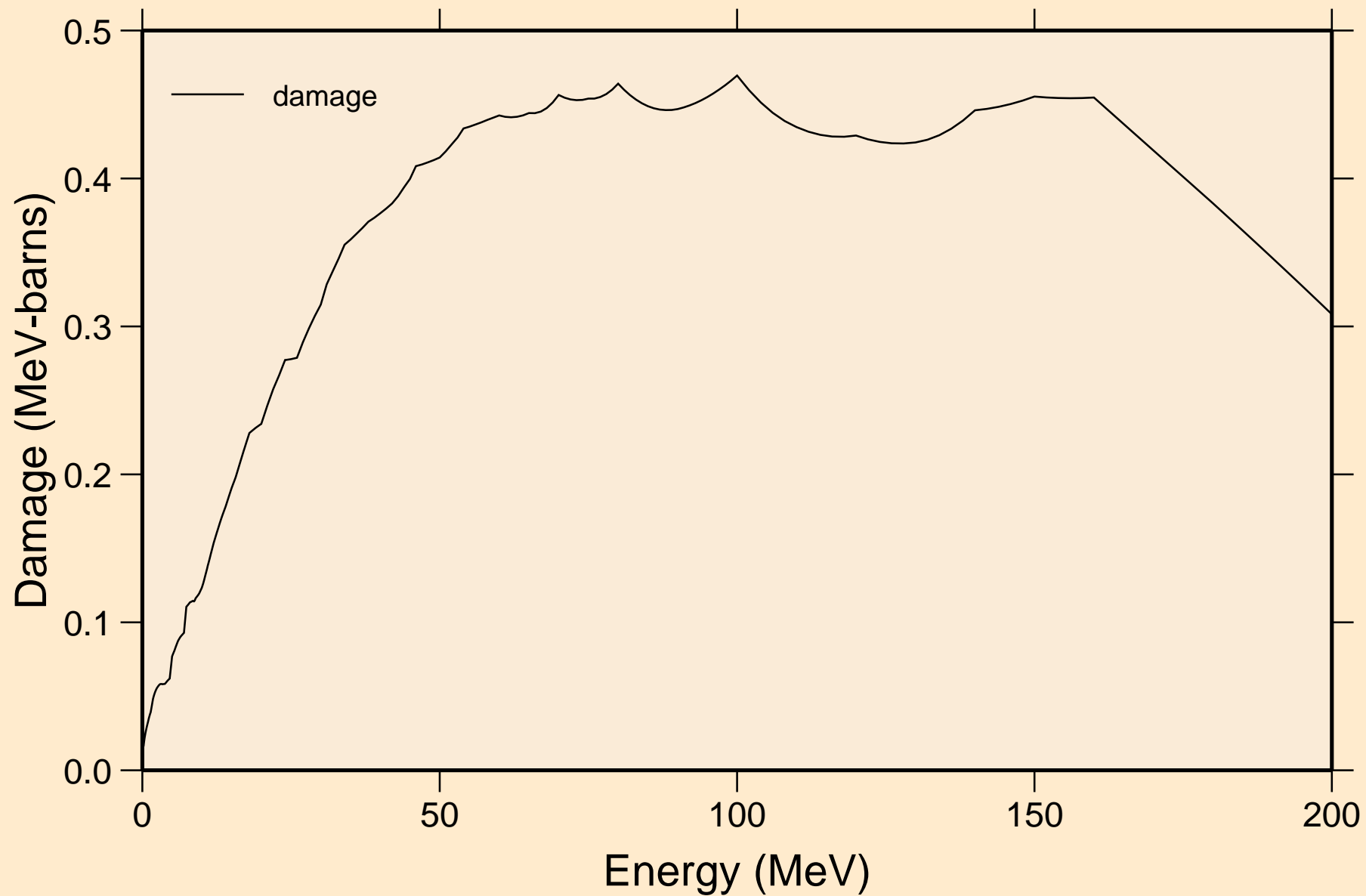
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

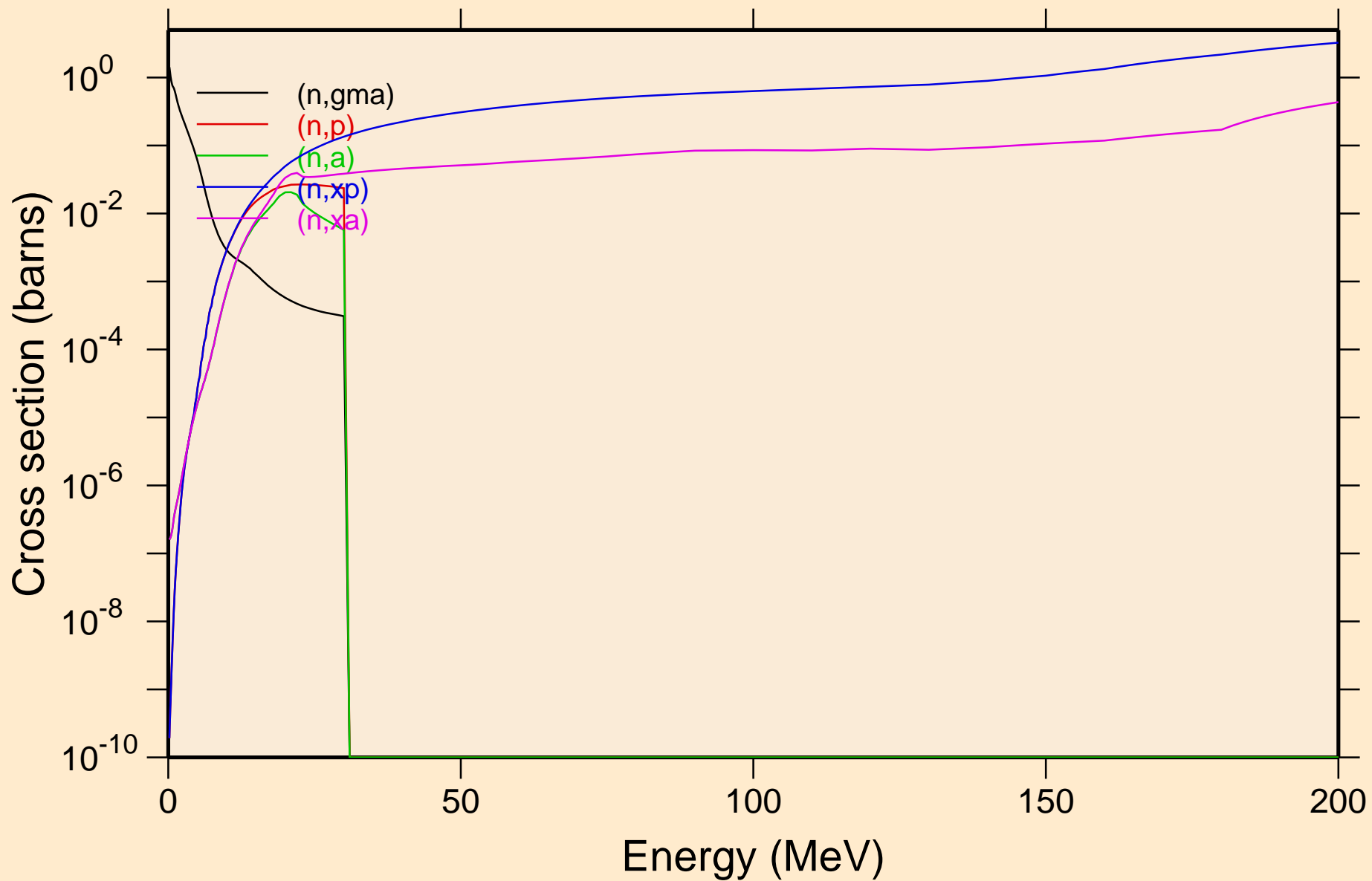


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Damage

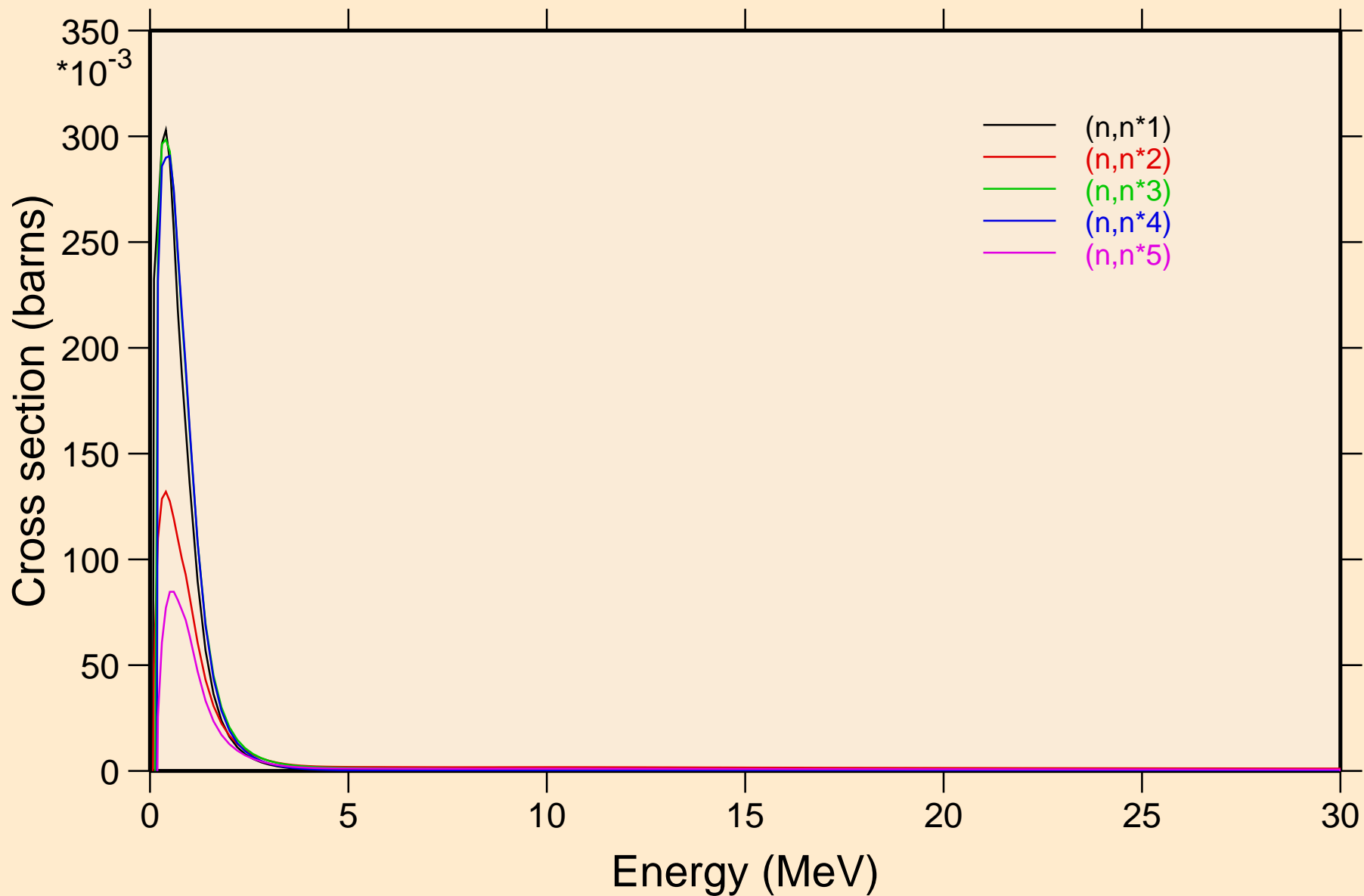




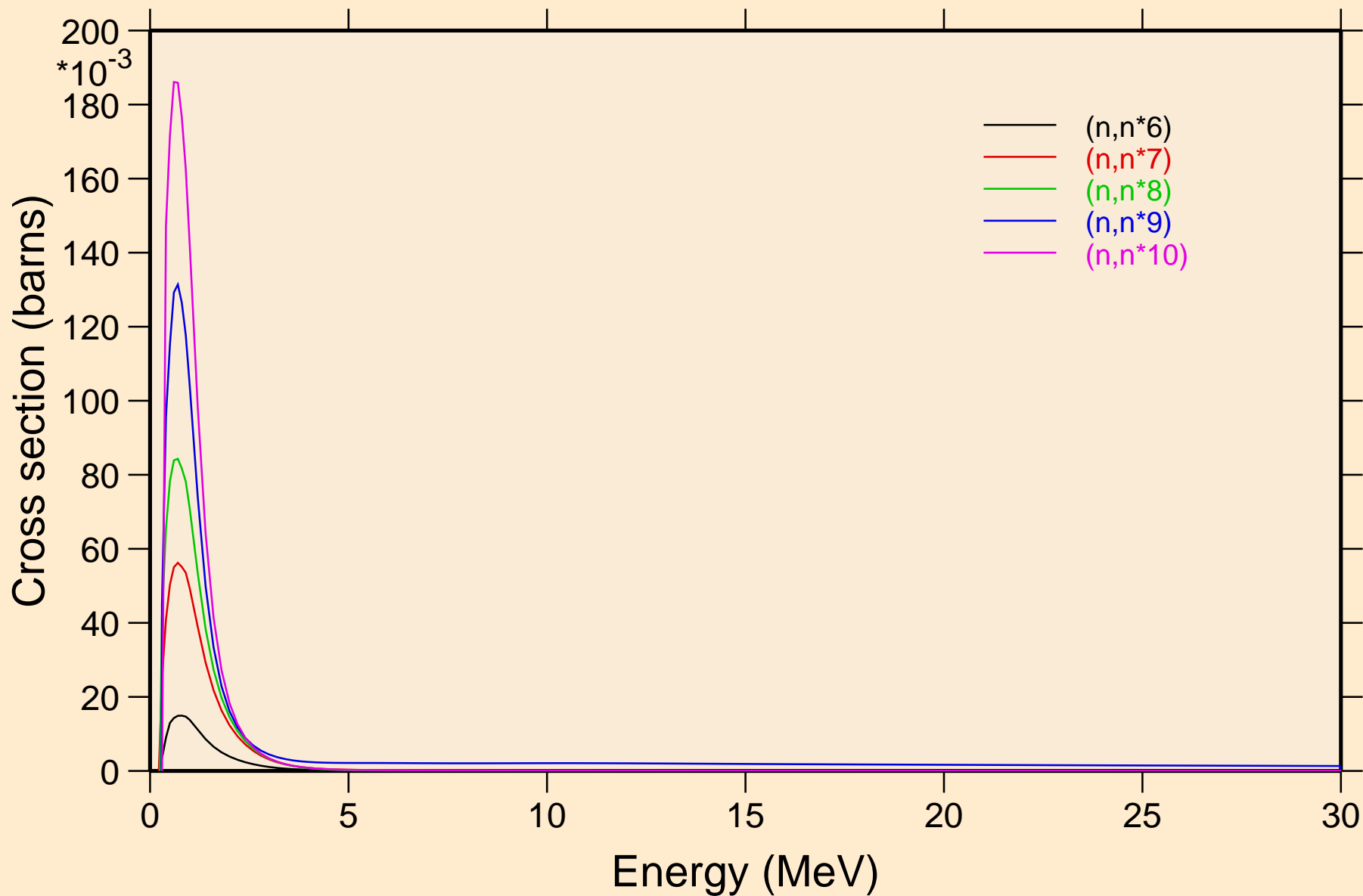
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



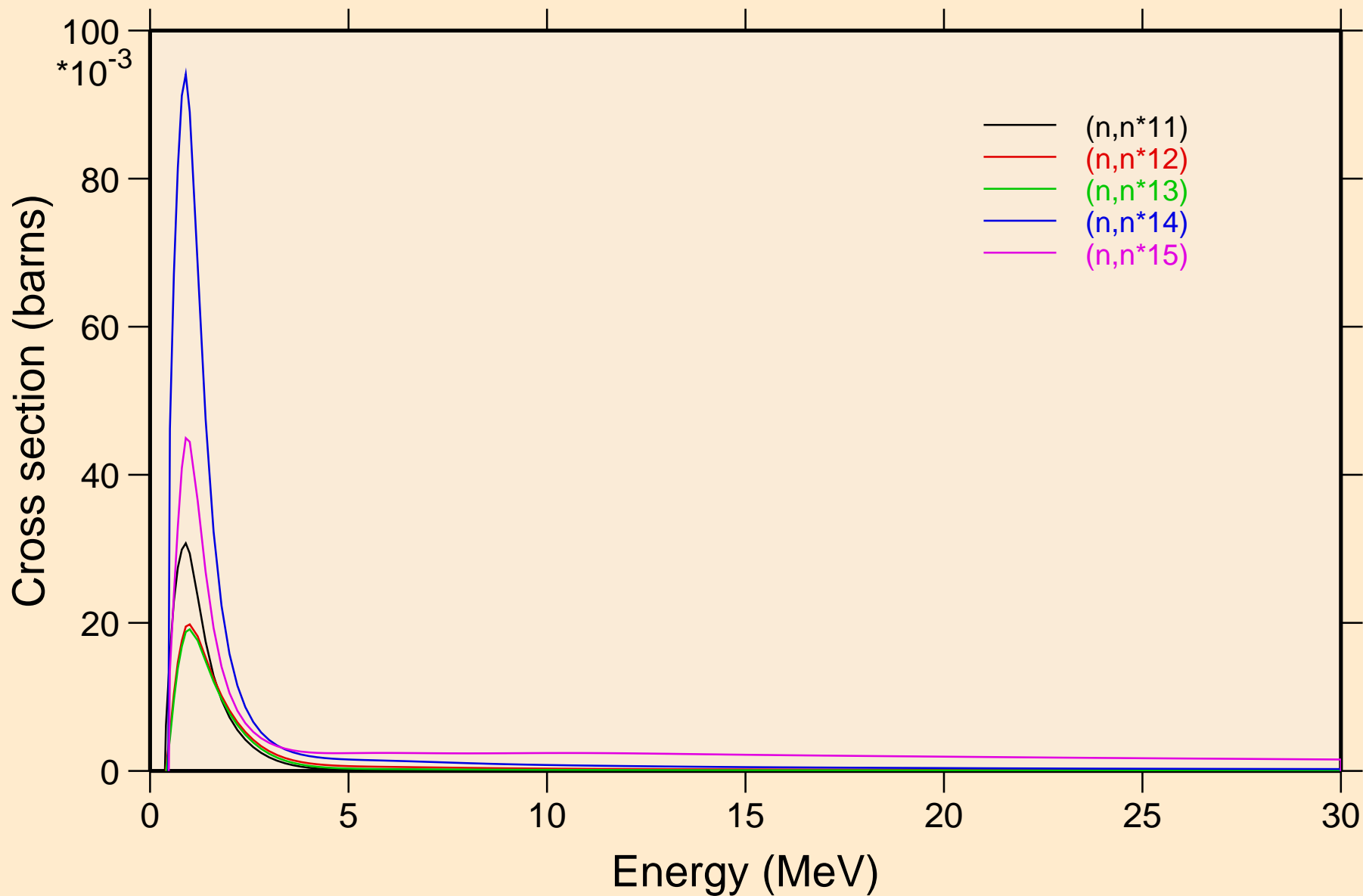
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Inelastic levels



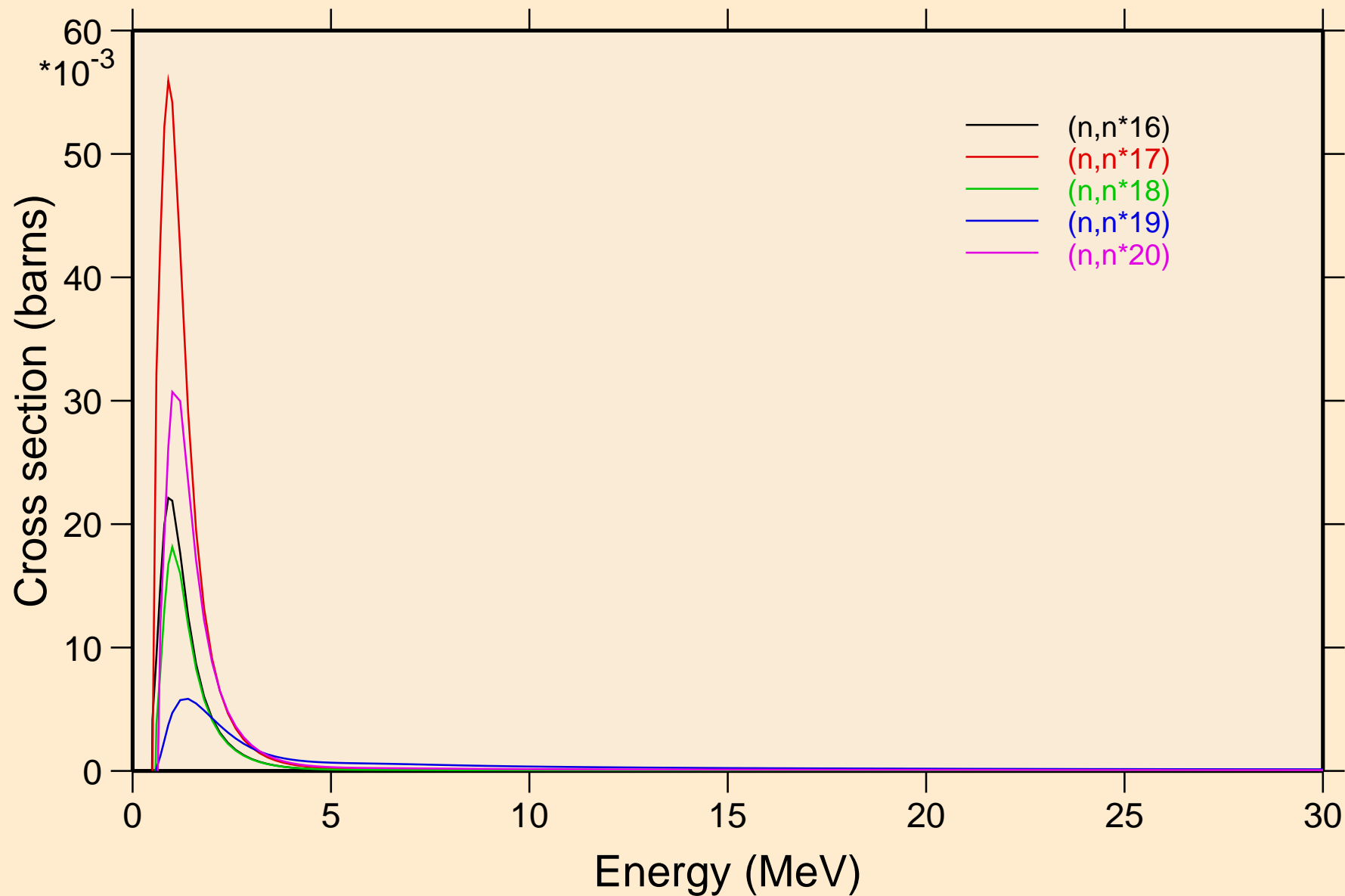
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



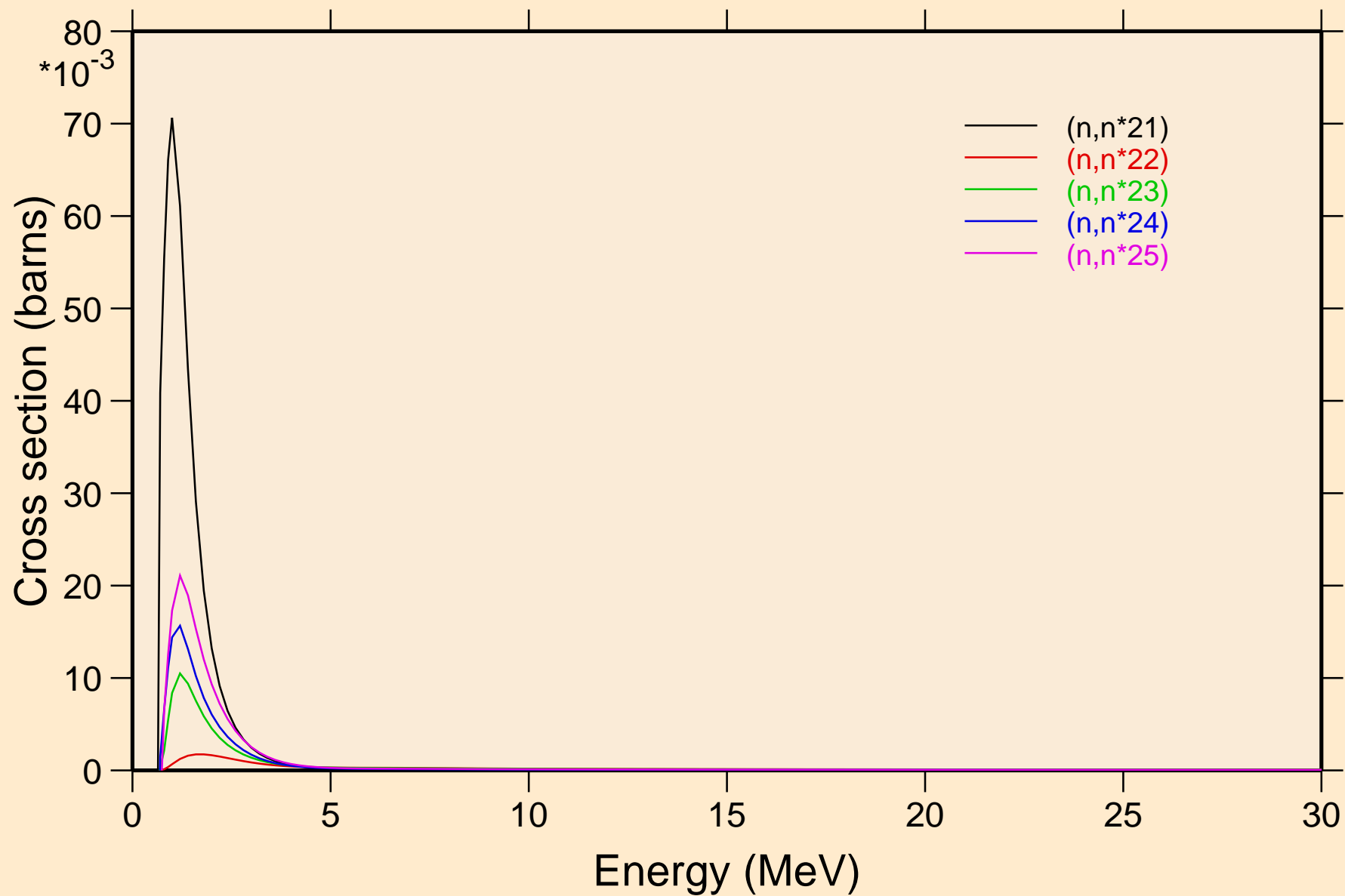
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Inelastic levels



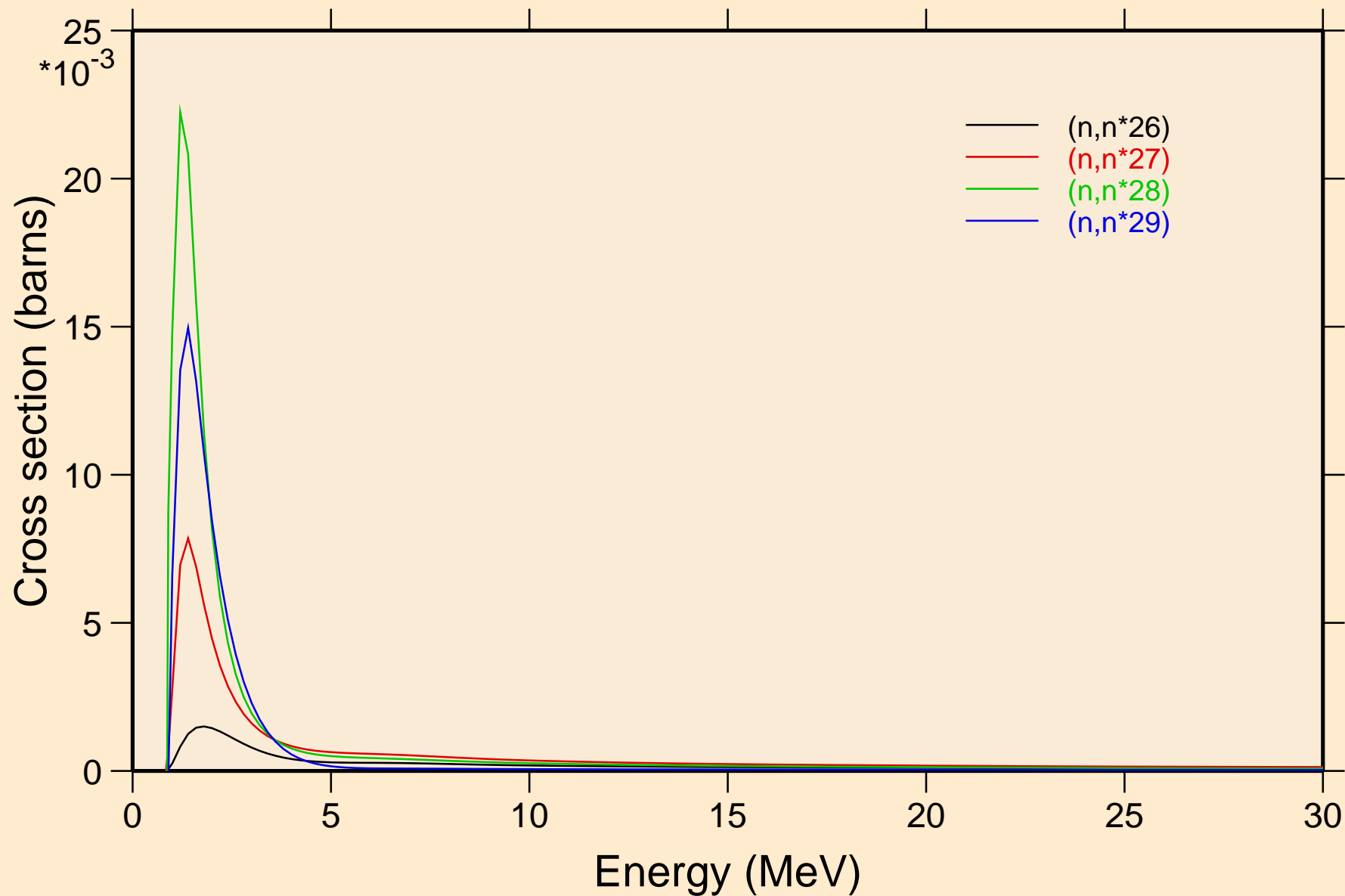
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



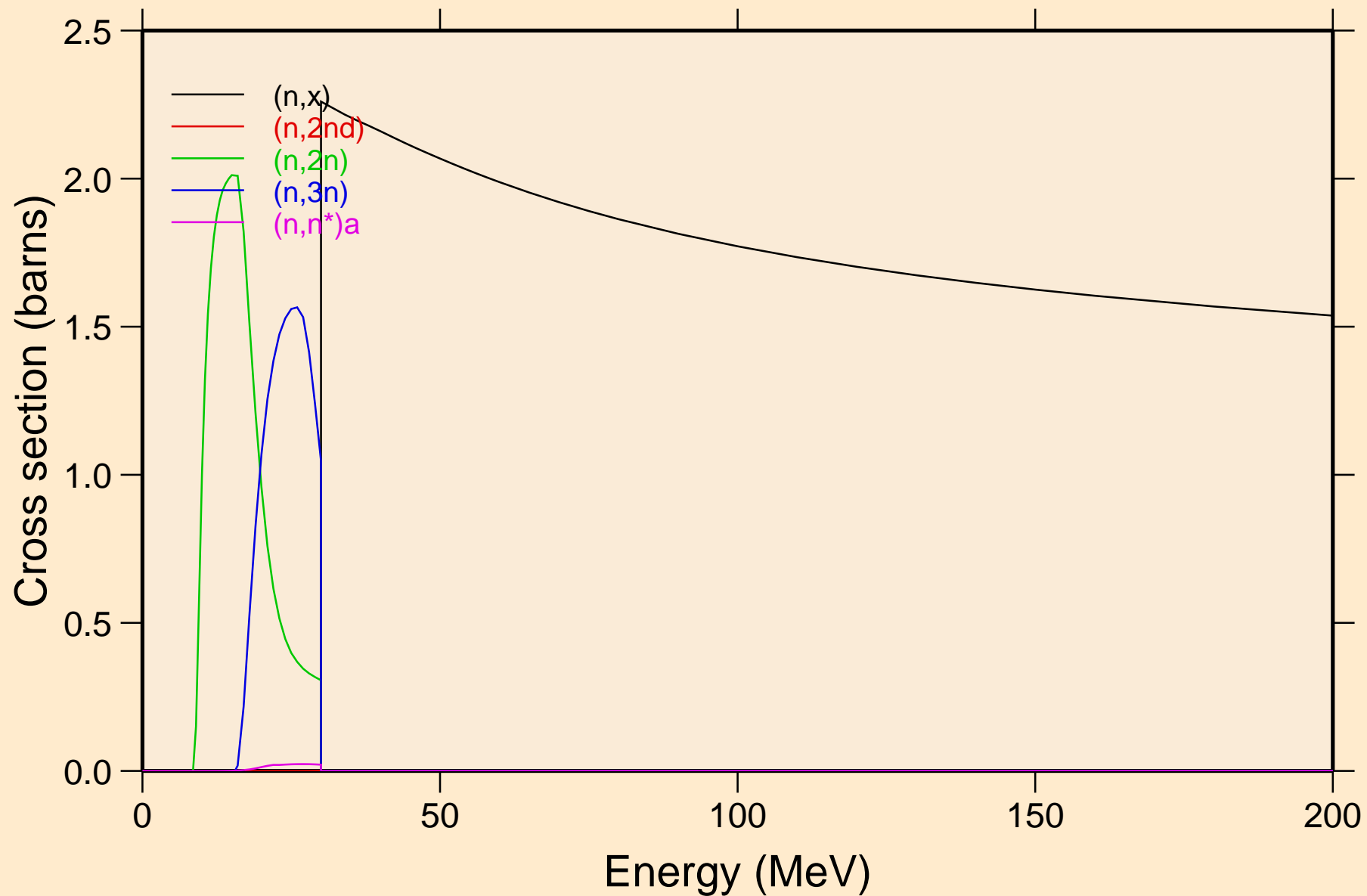
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

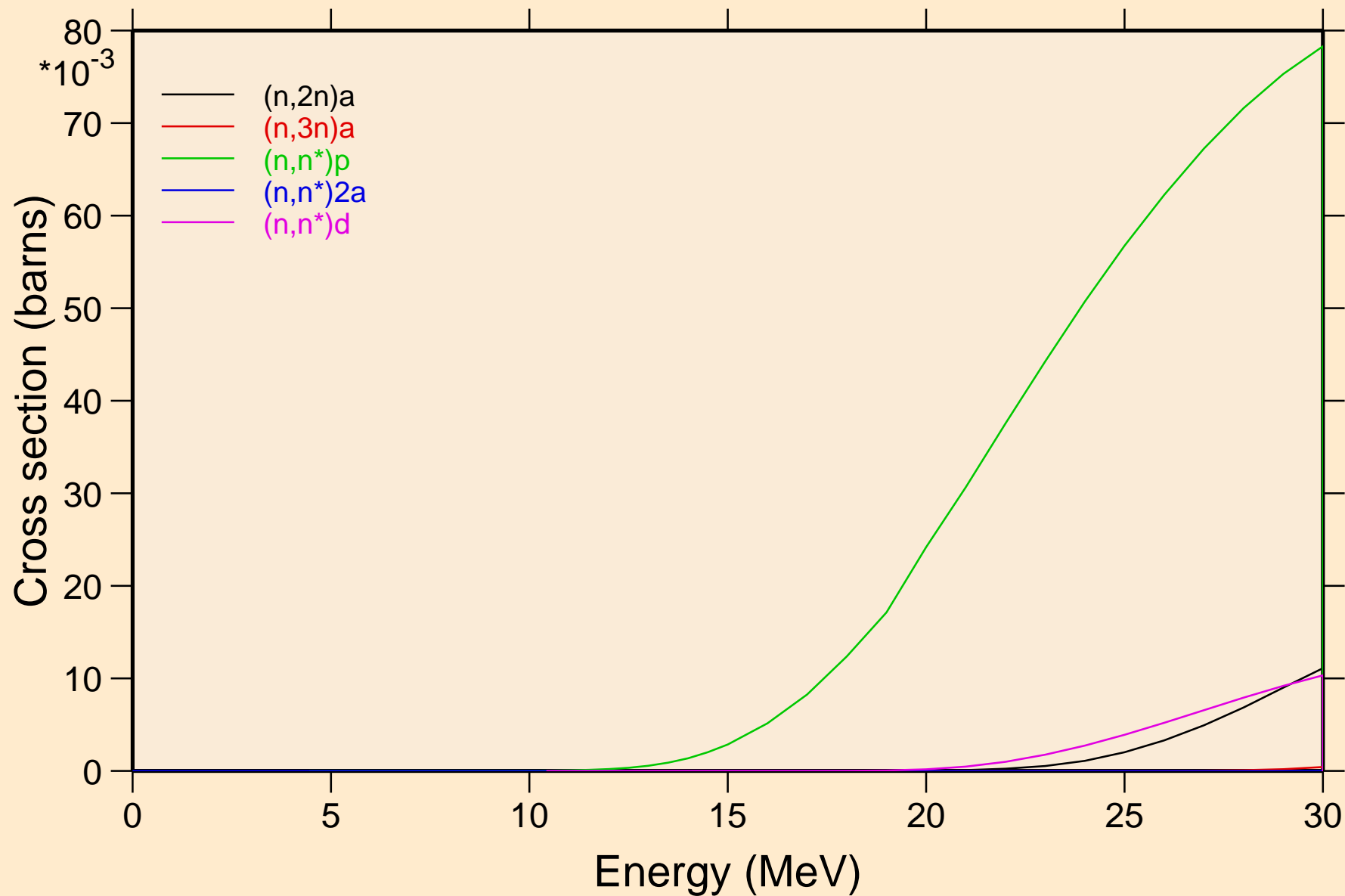


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

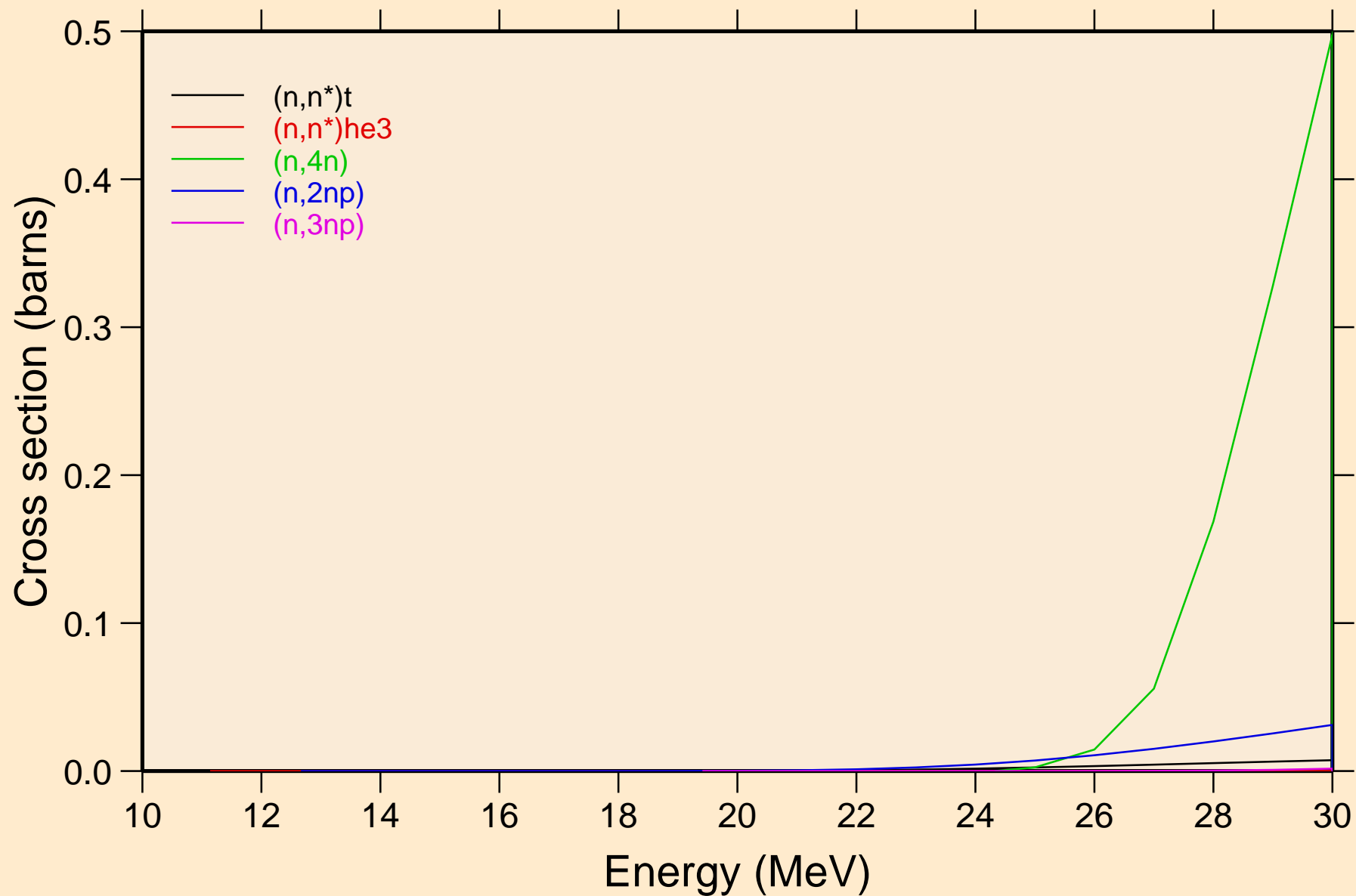




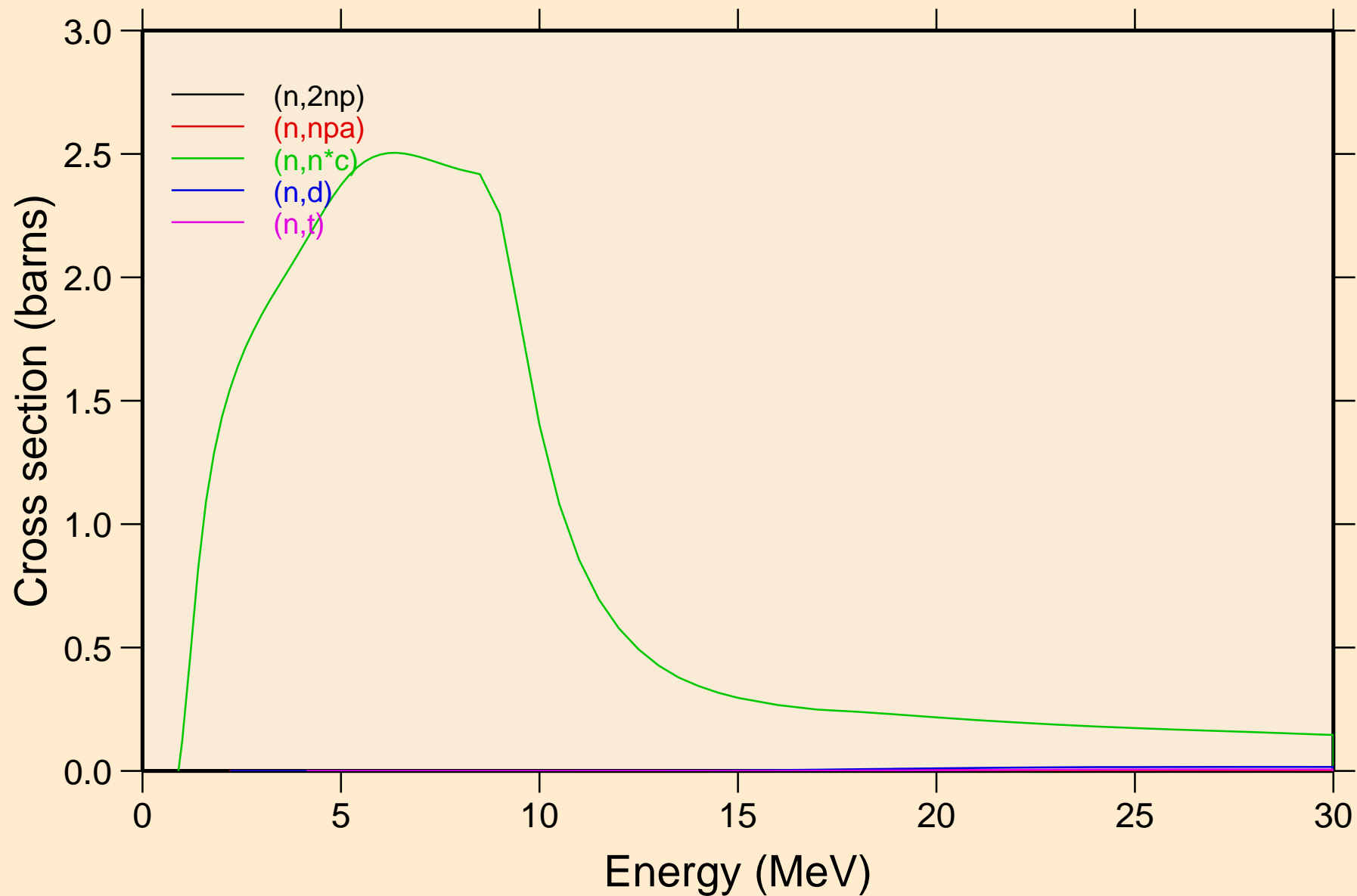
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



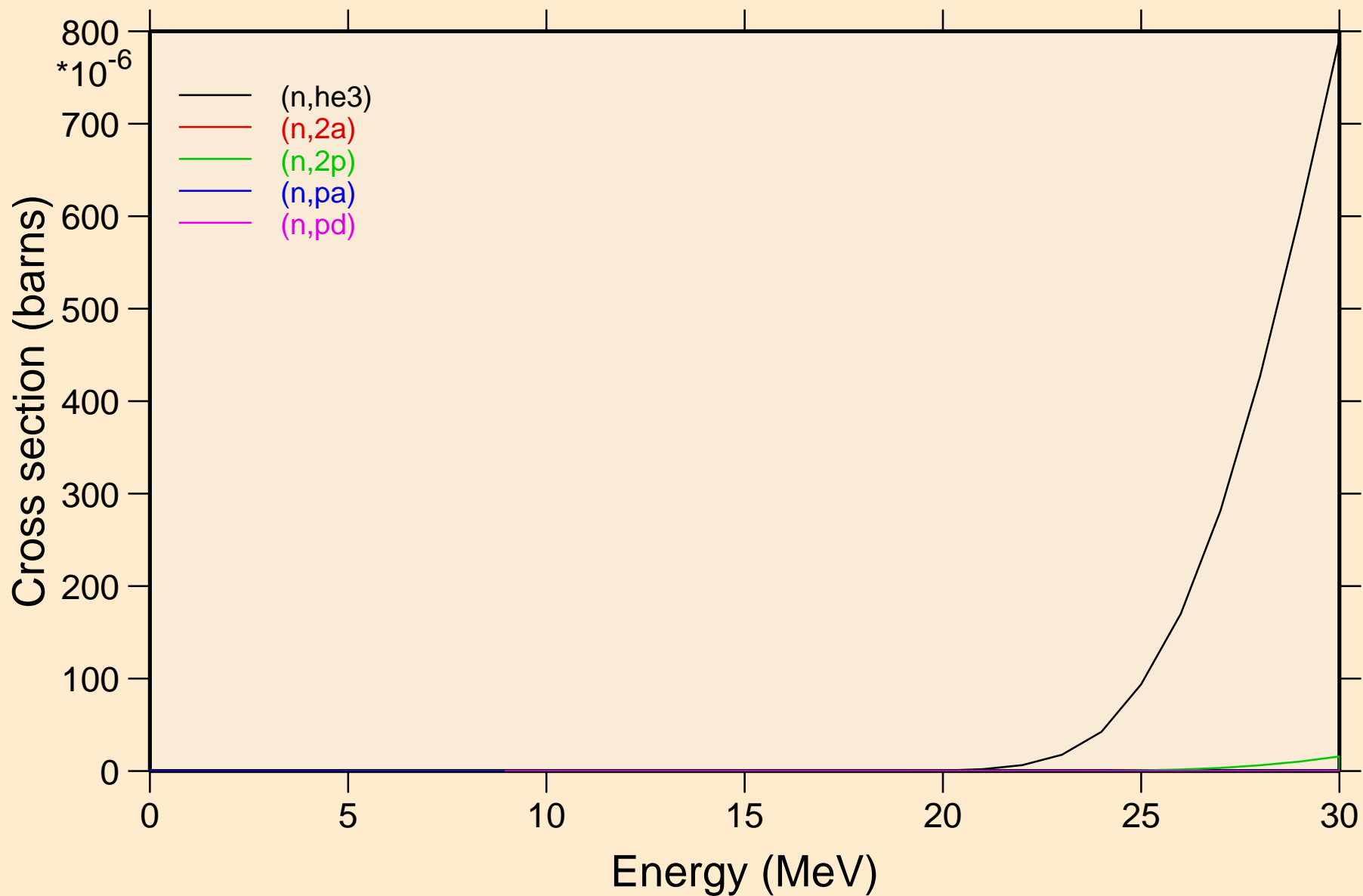
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



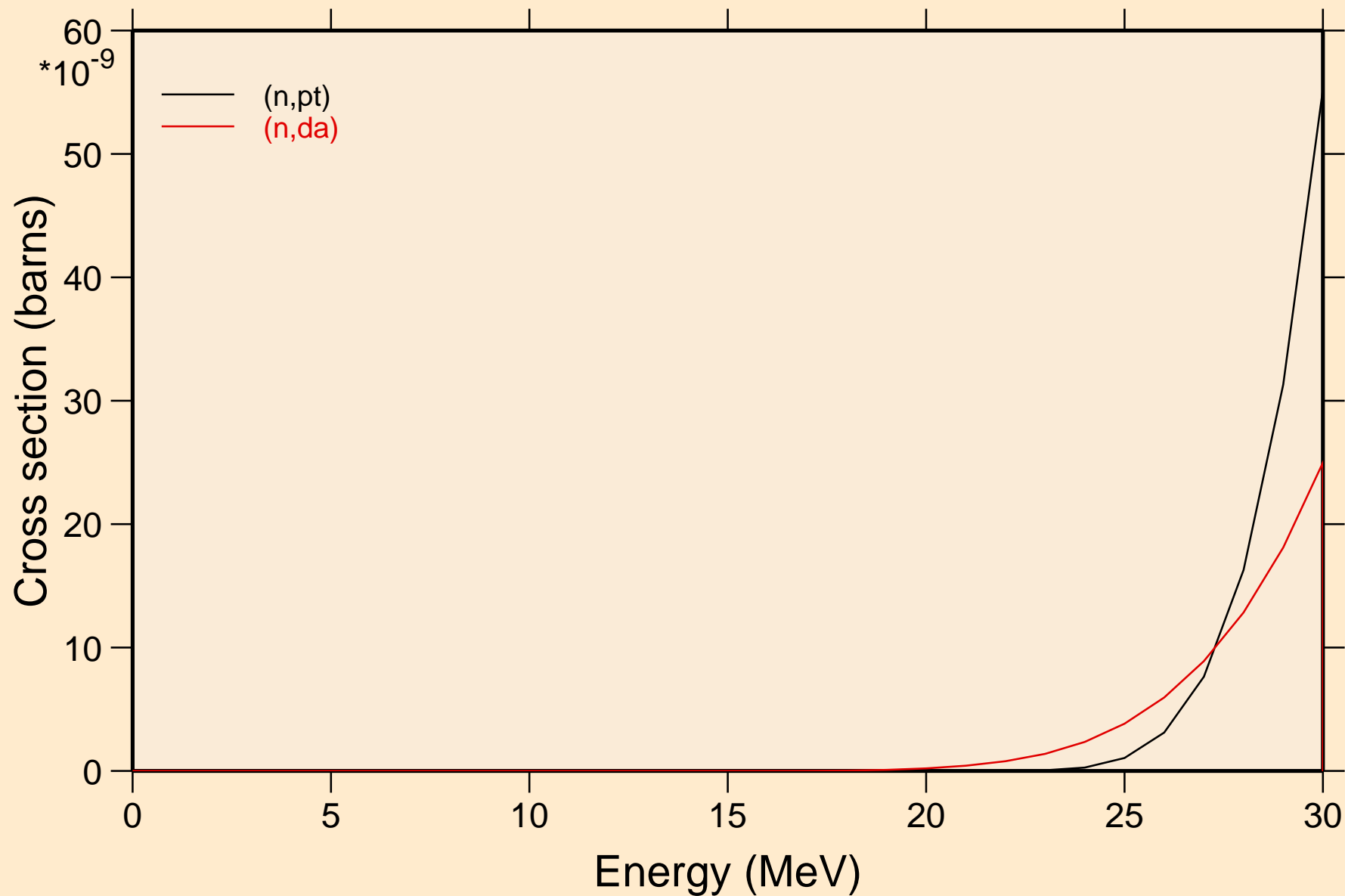
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



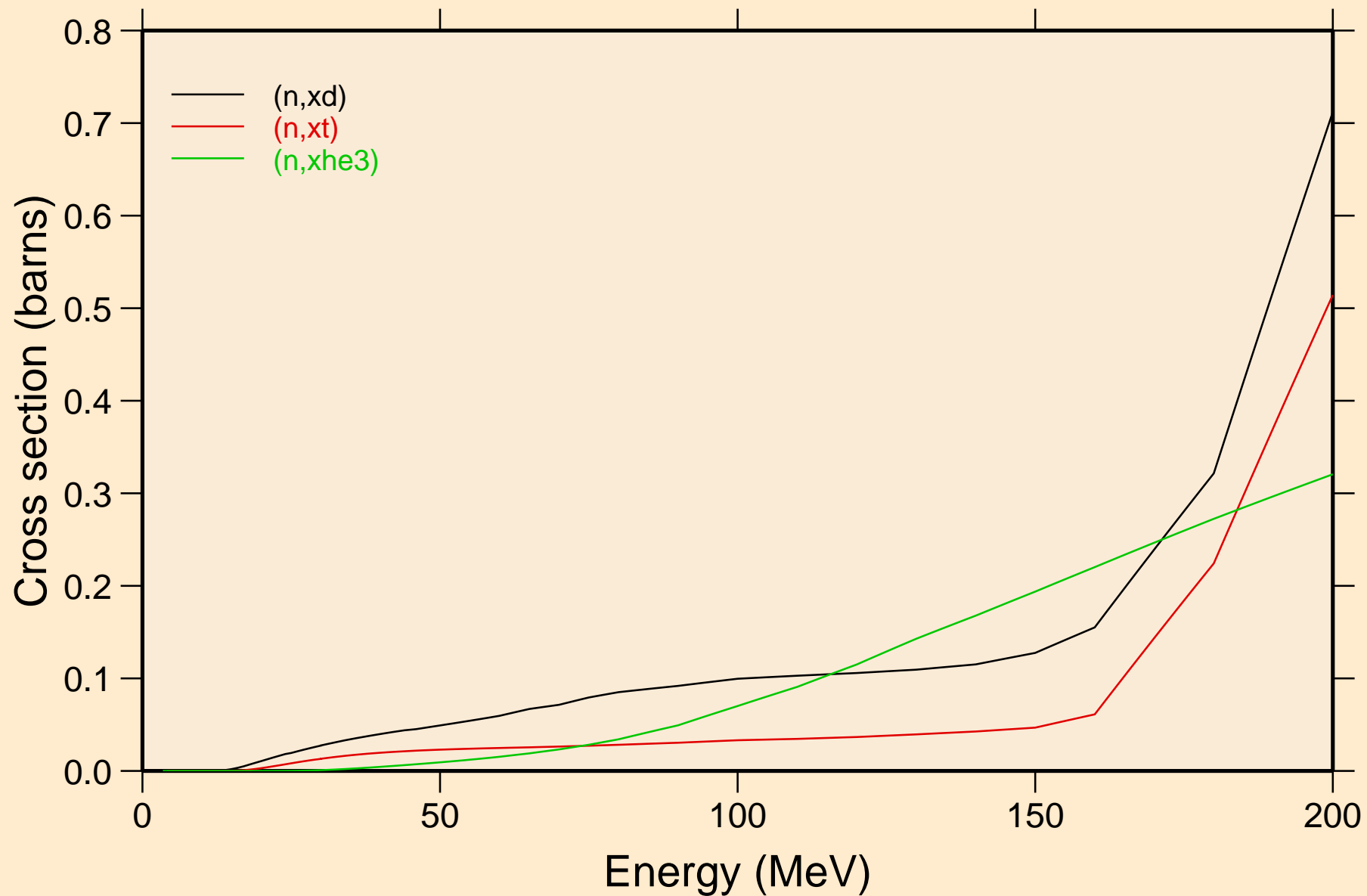
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



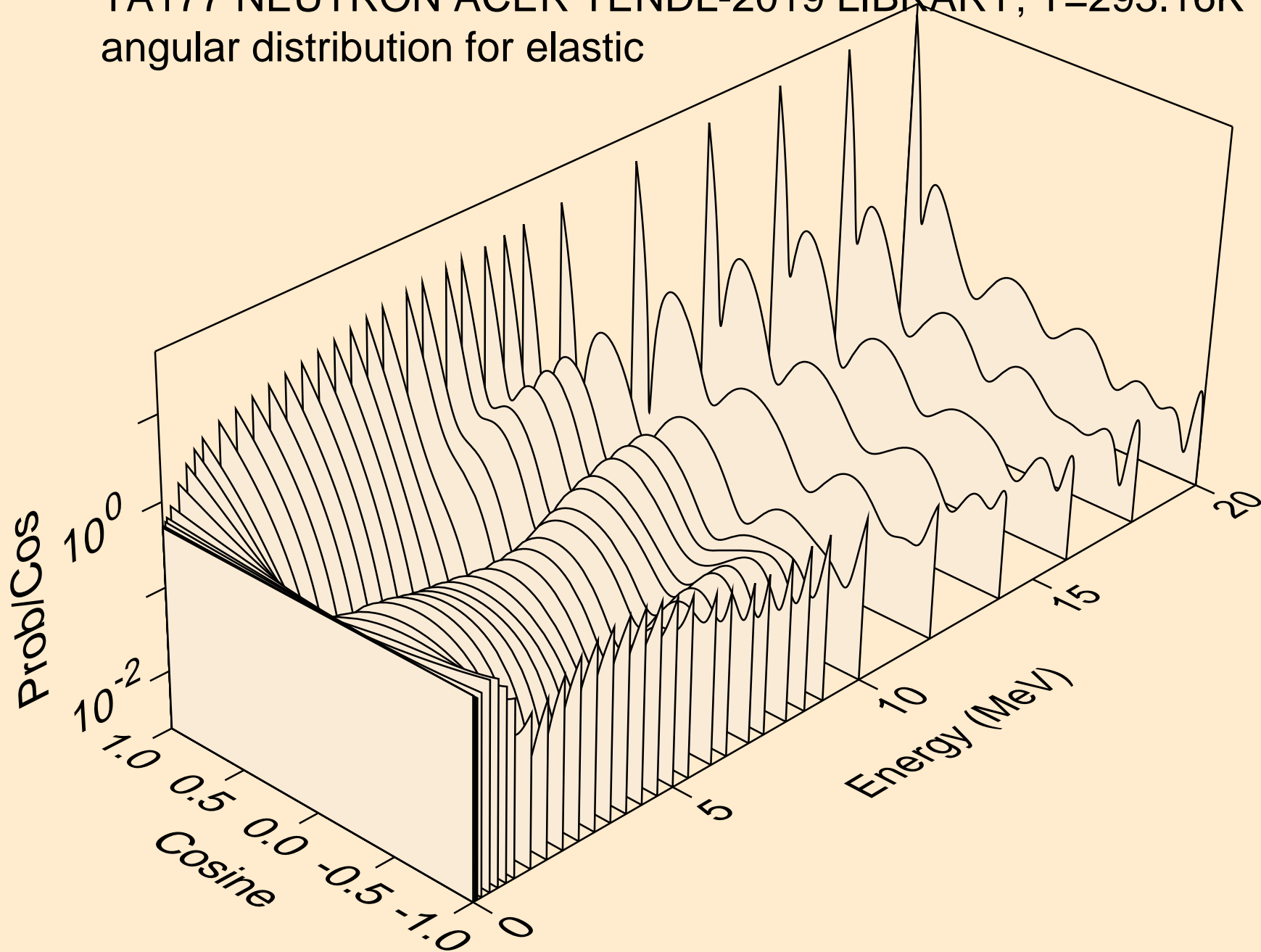
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



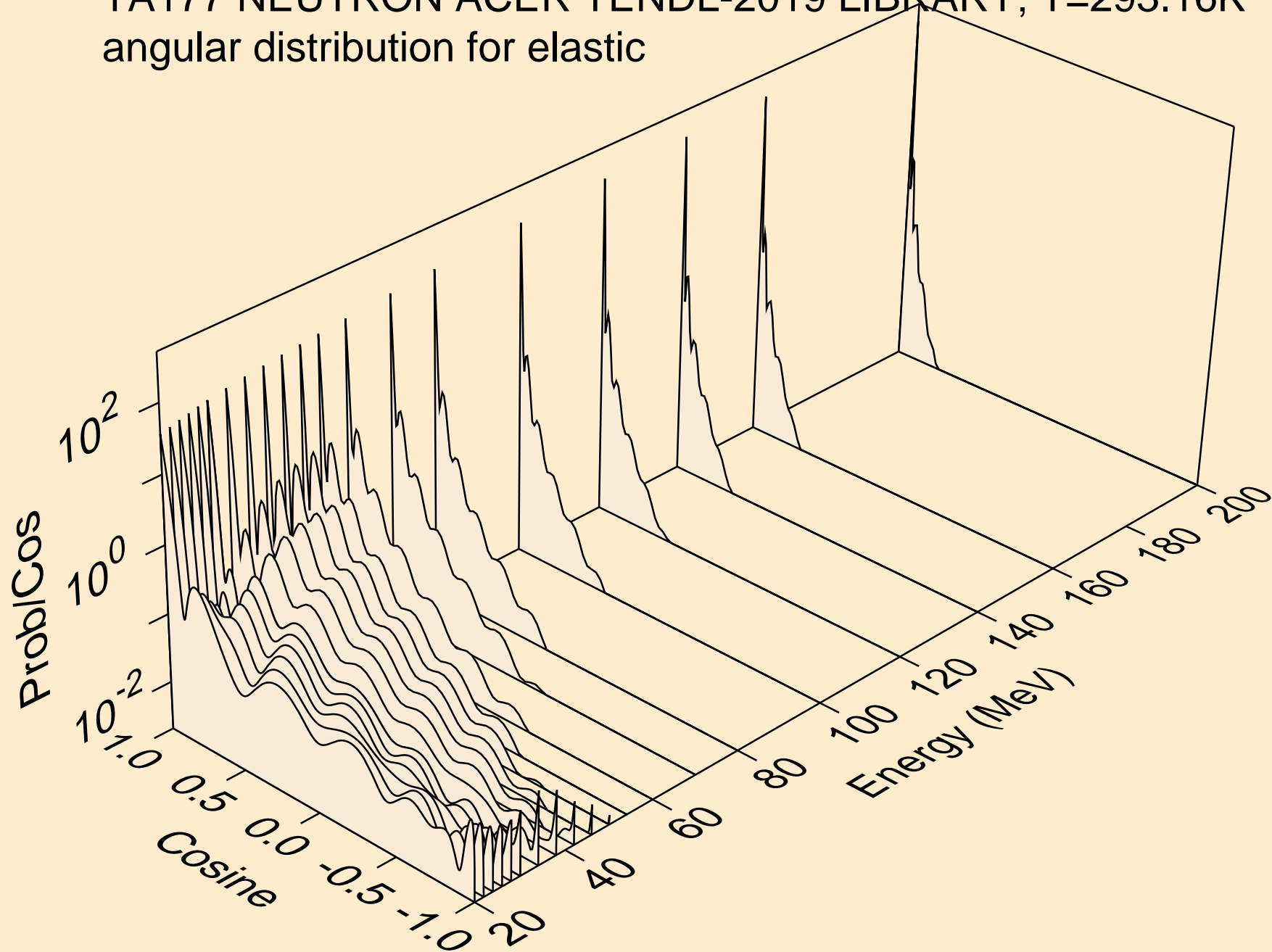
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

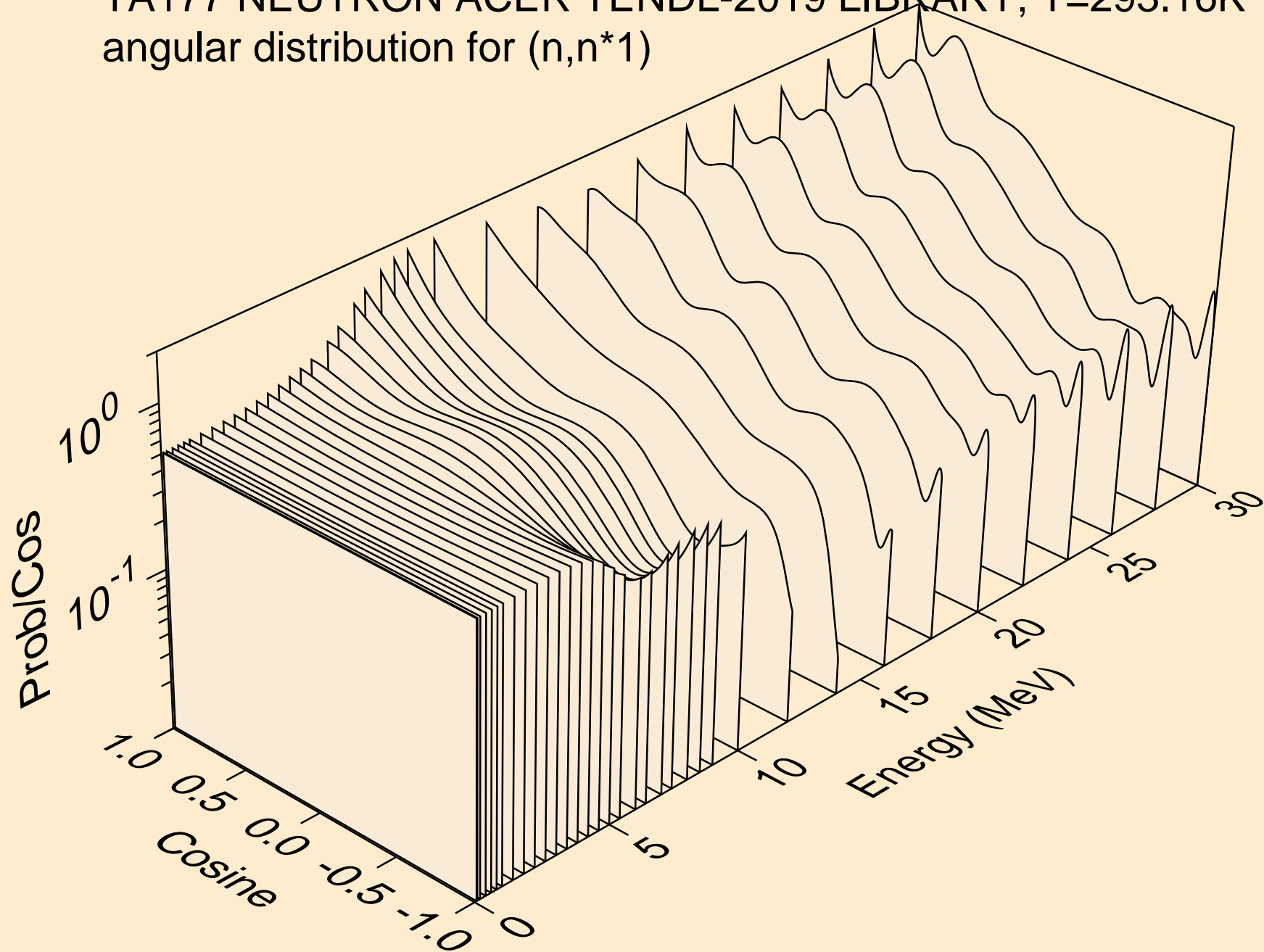


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

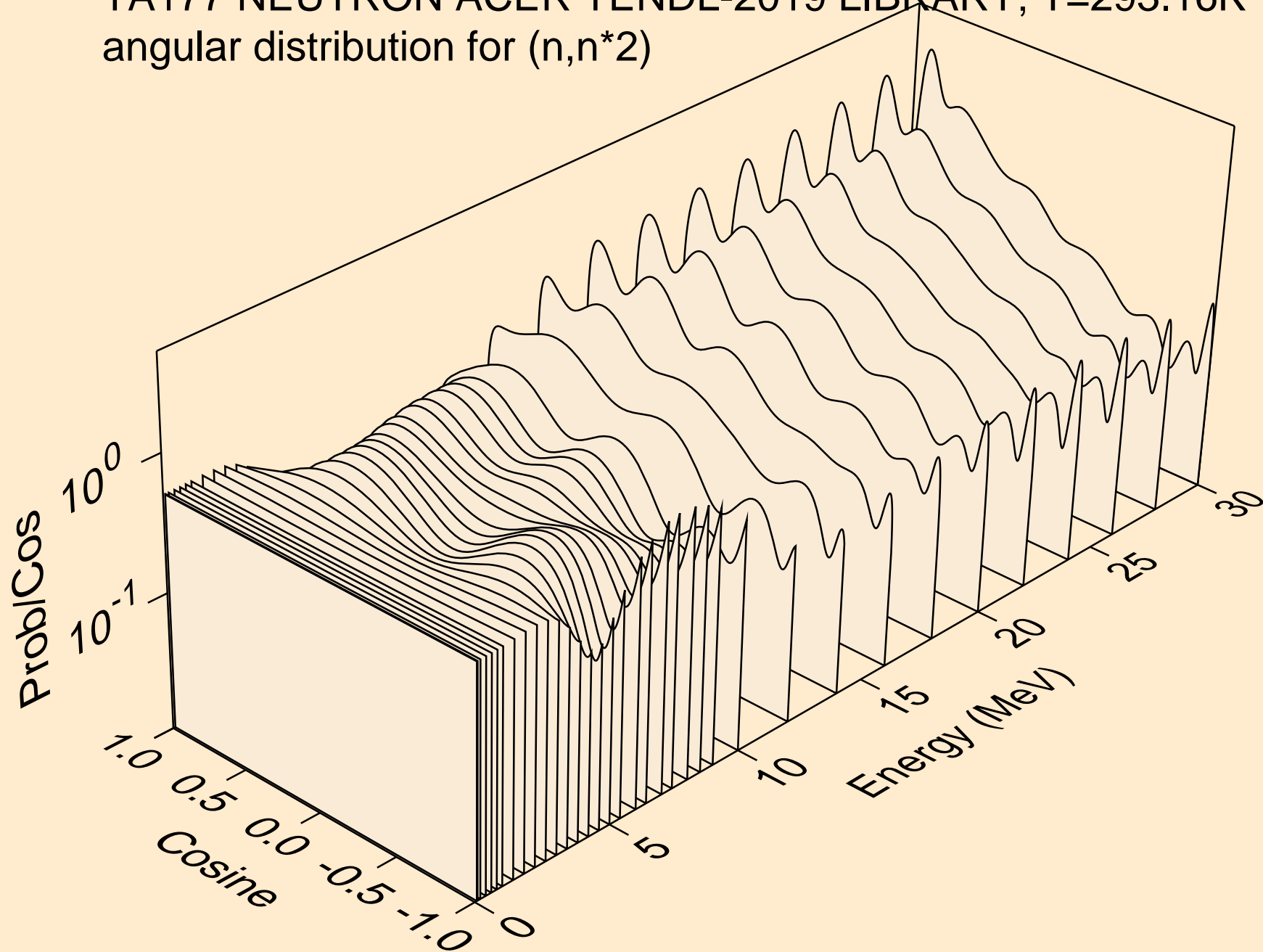




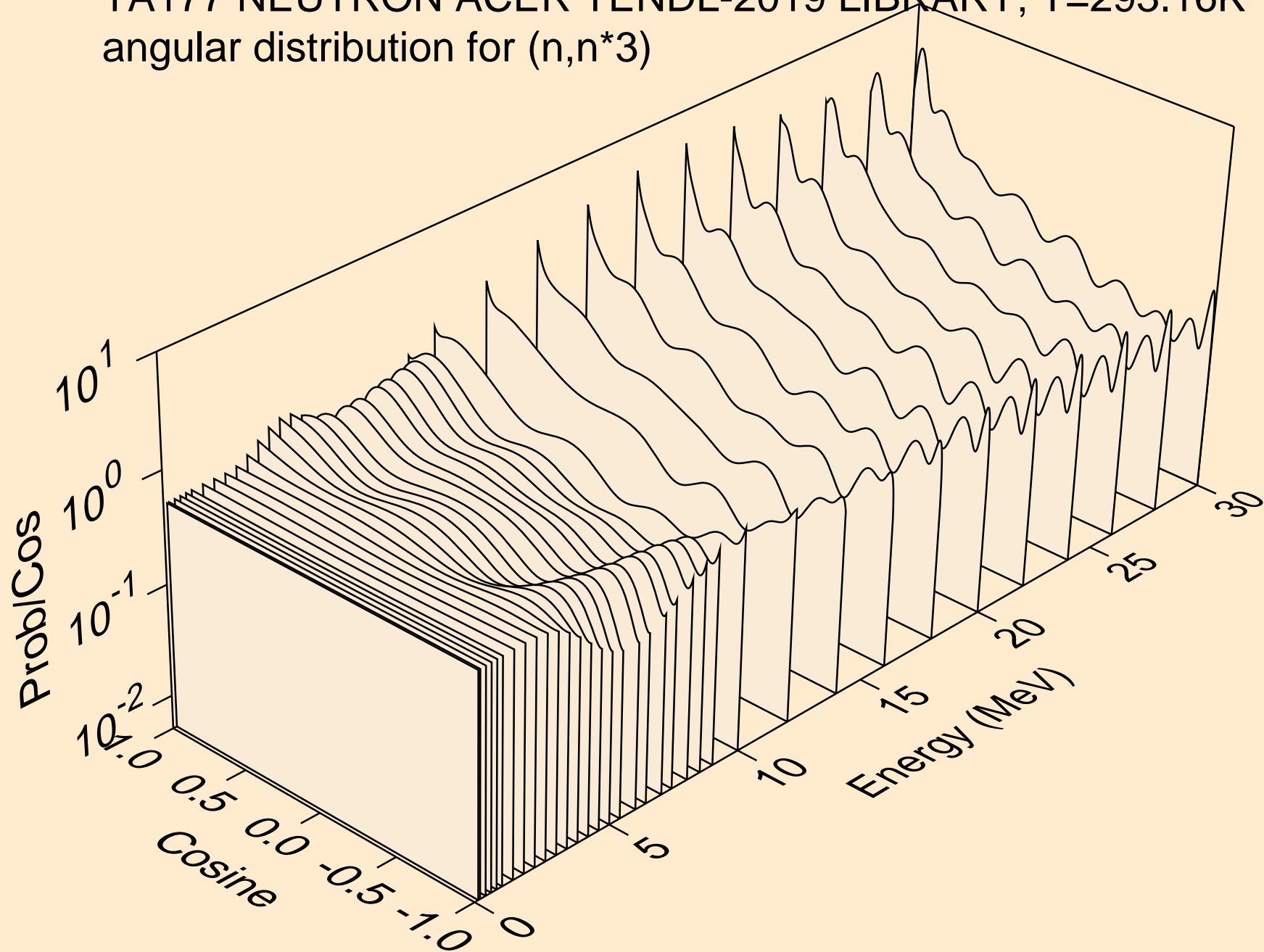
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angular distribution for (n,n\*1)



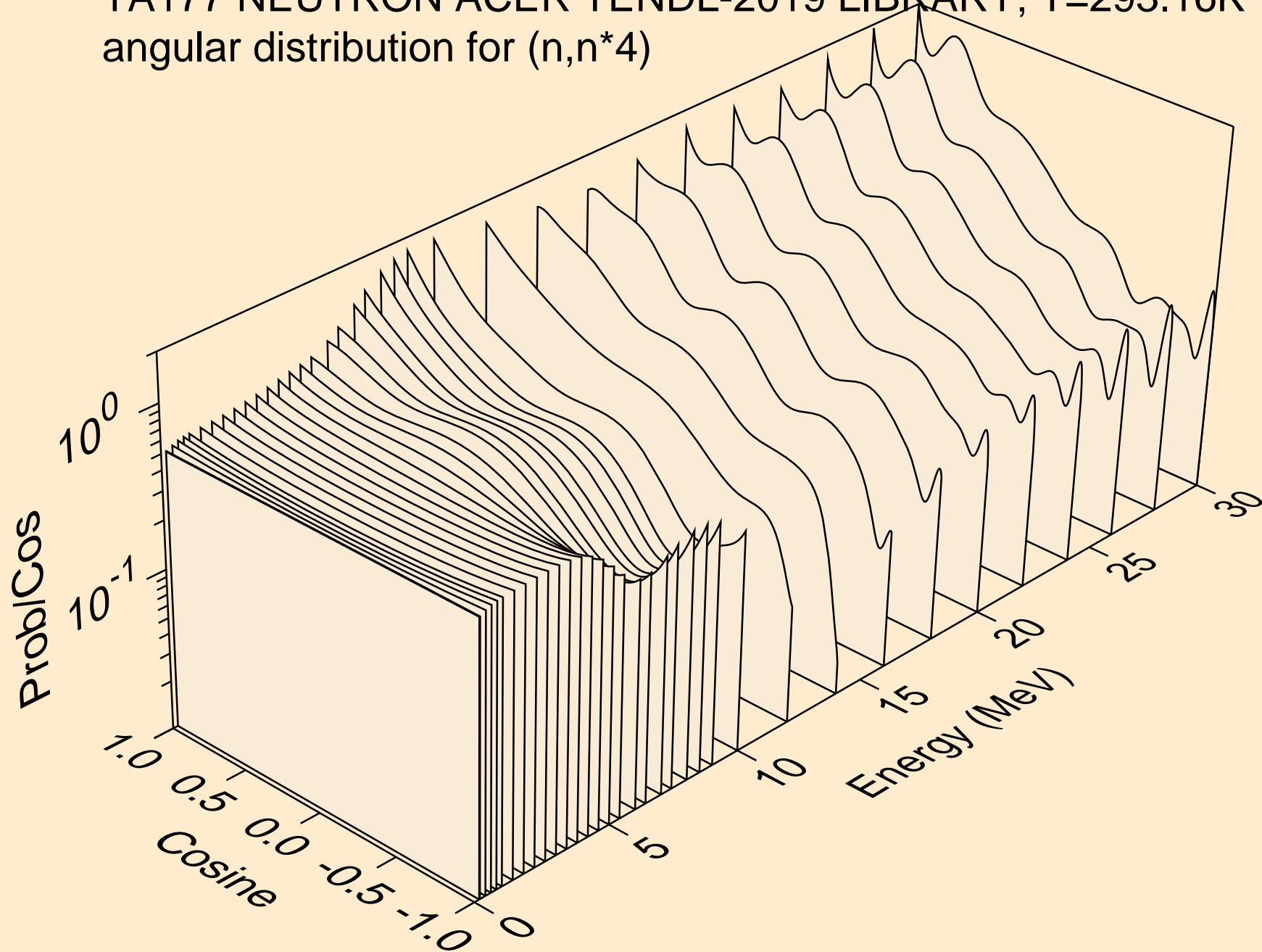
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angular distribution for (n,n\*2)



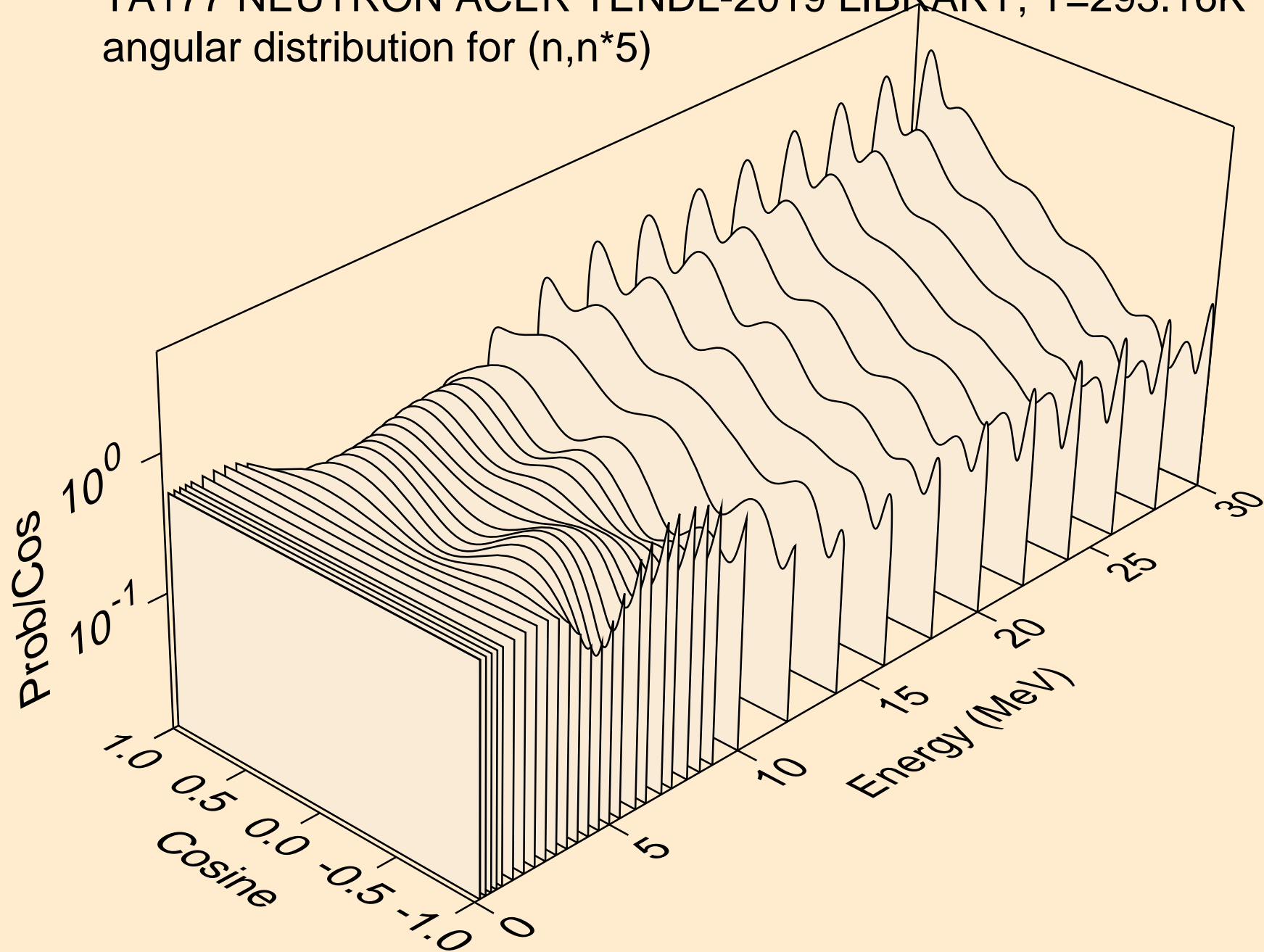
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angular distribution for (n,n\*3)



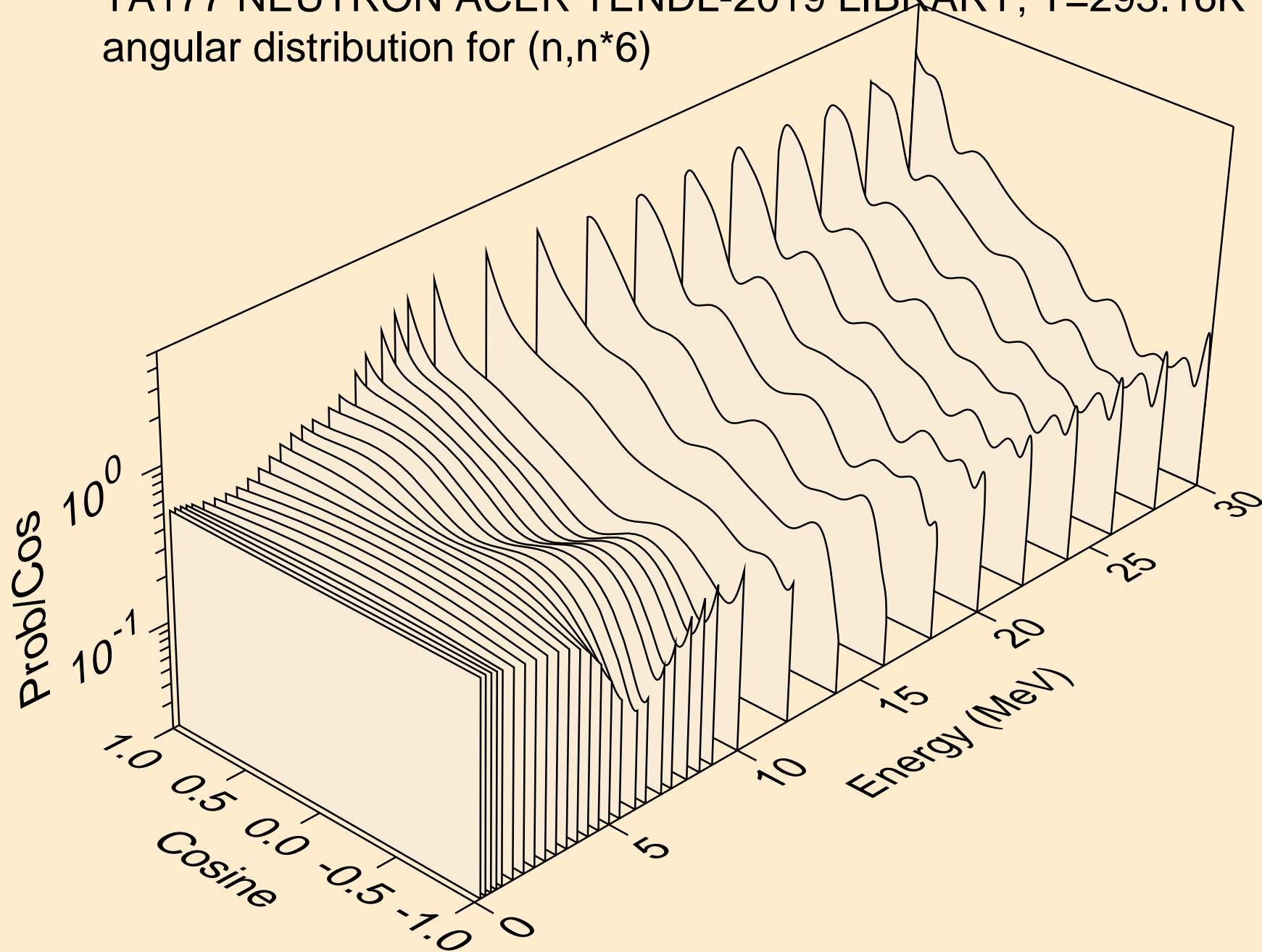
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angular distribution for (n,n\*4)



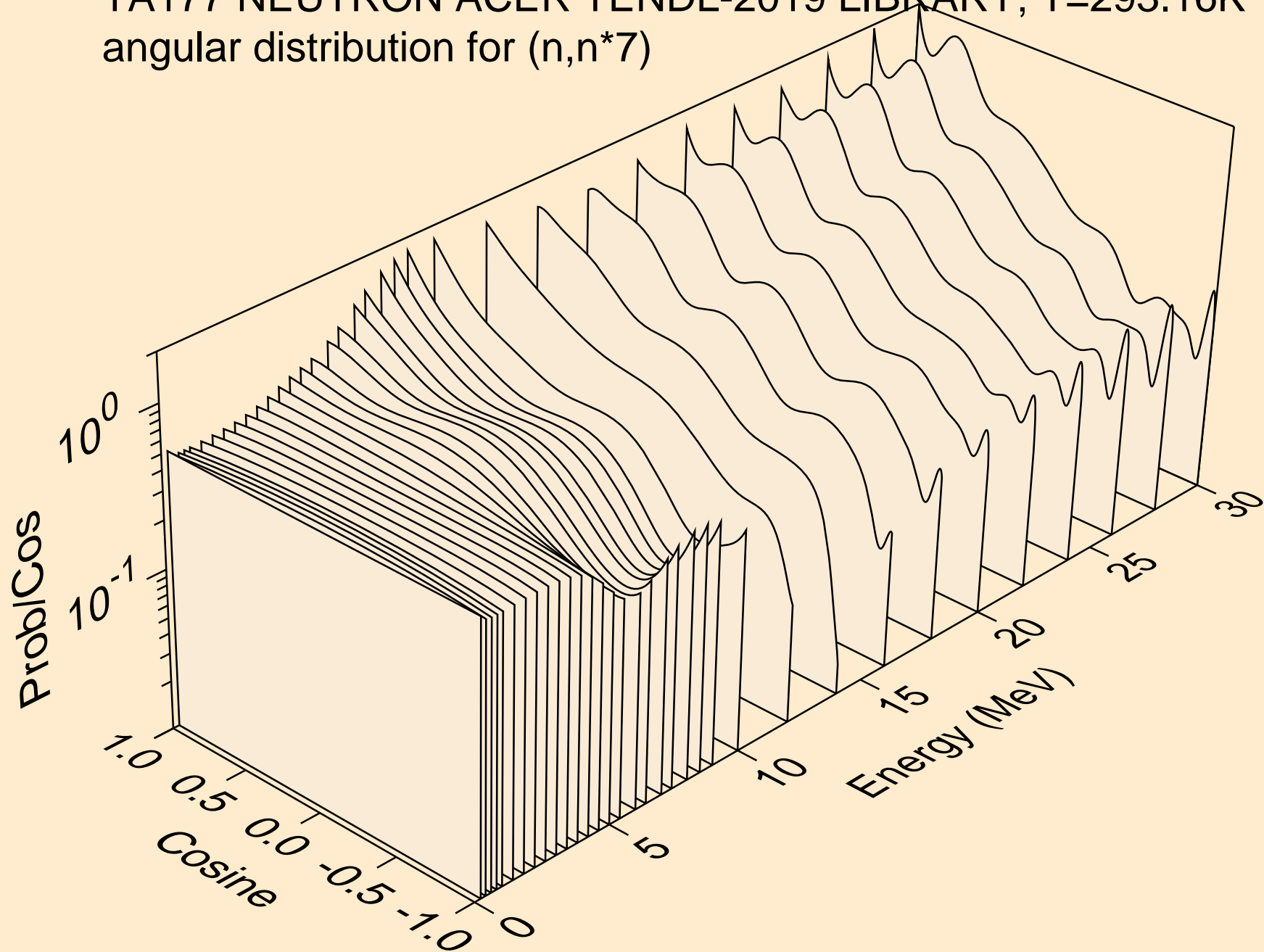
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

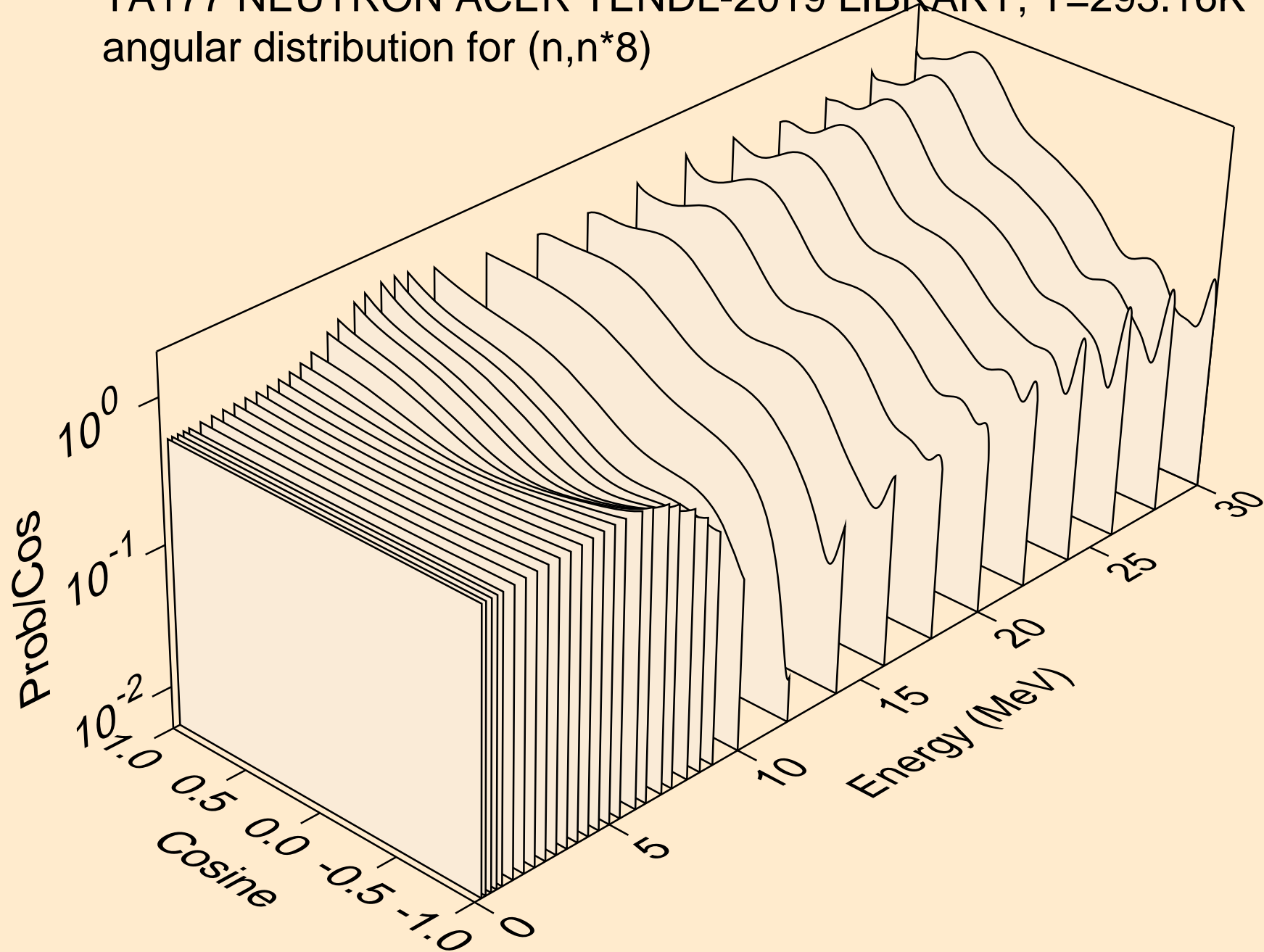


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



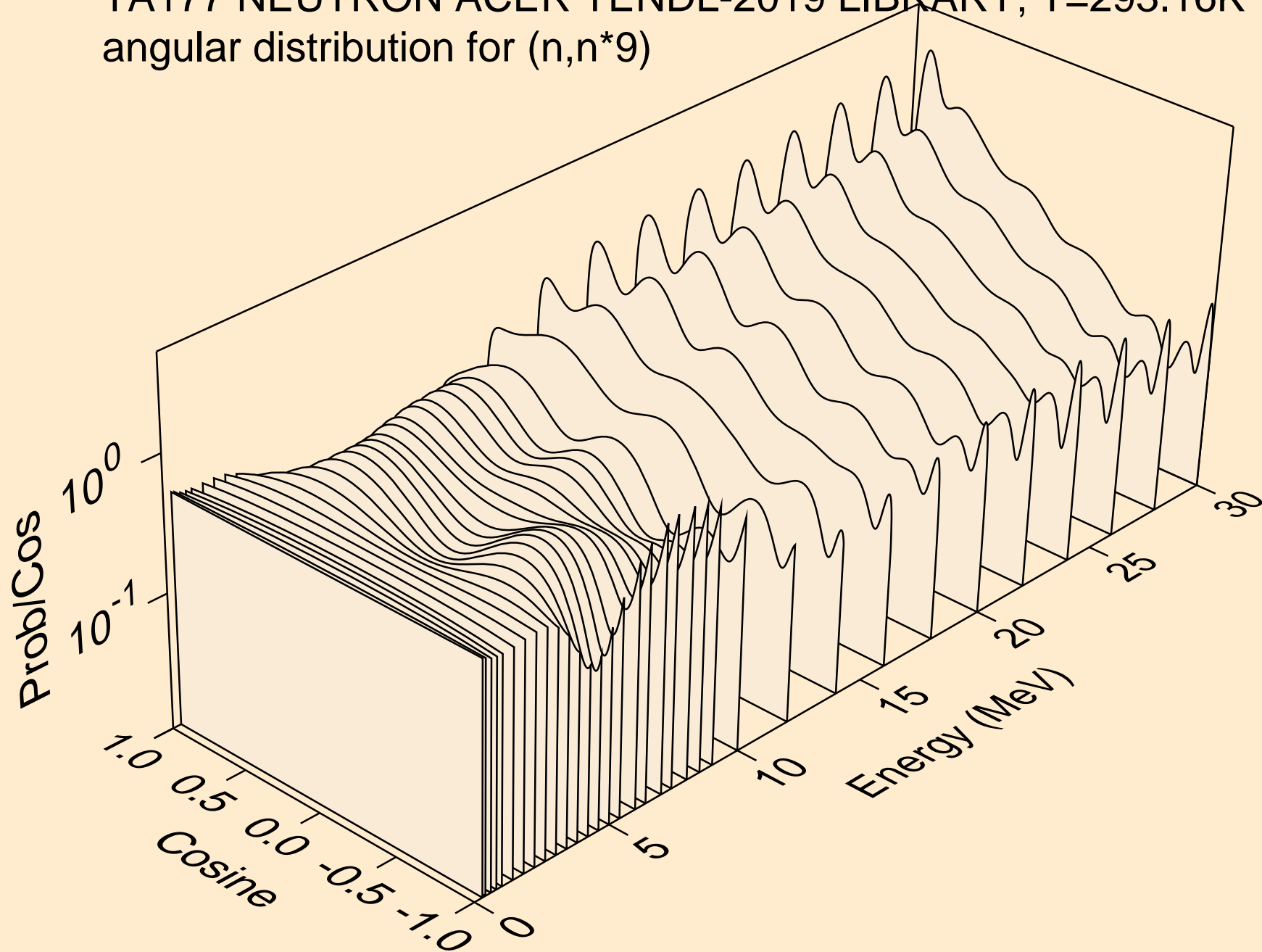


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

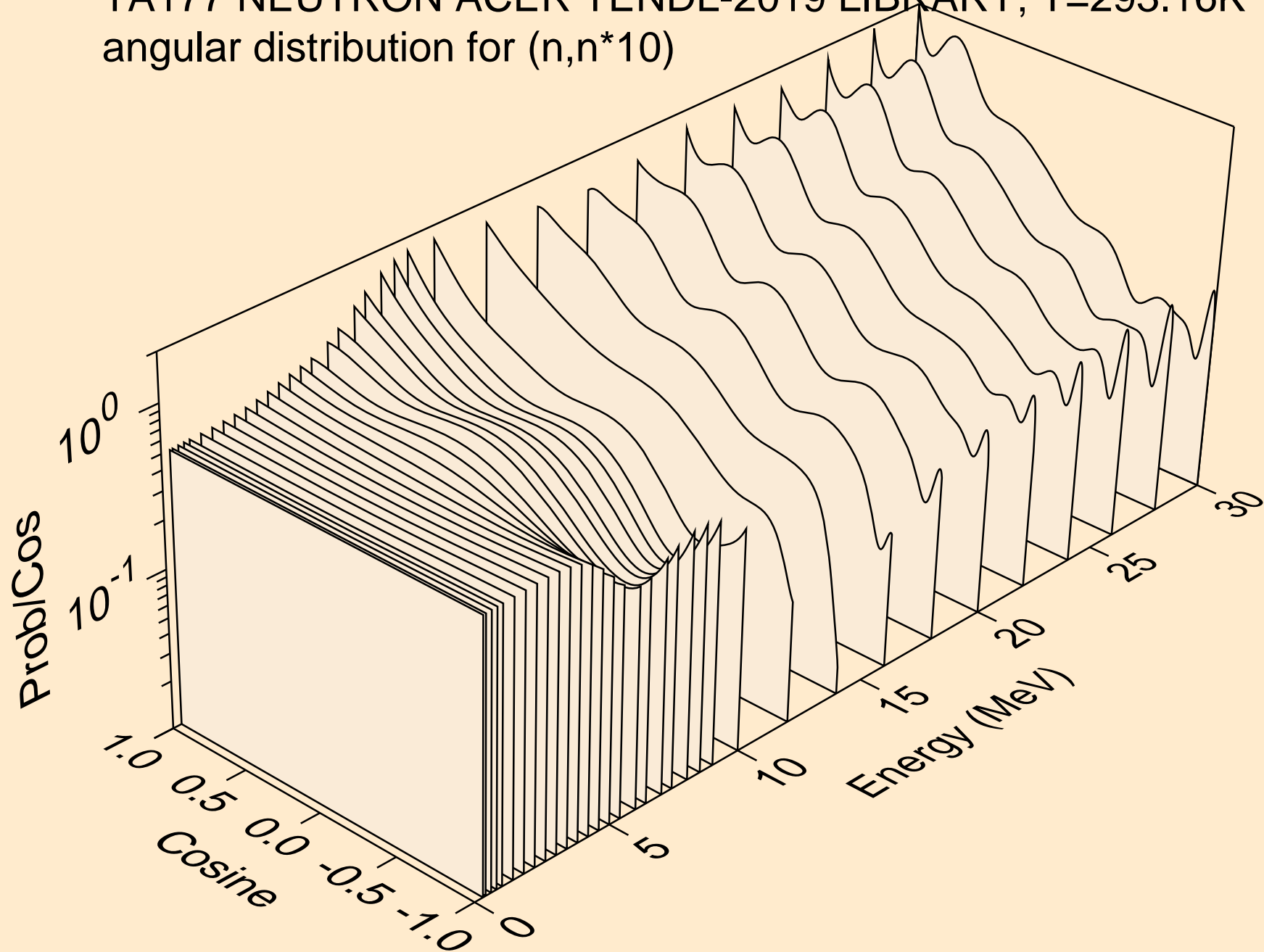




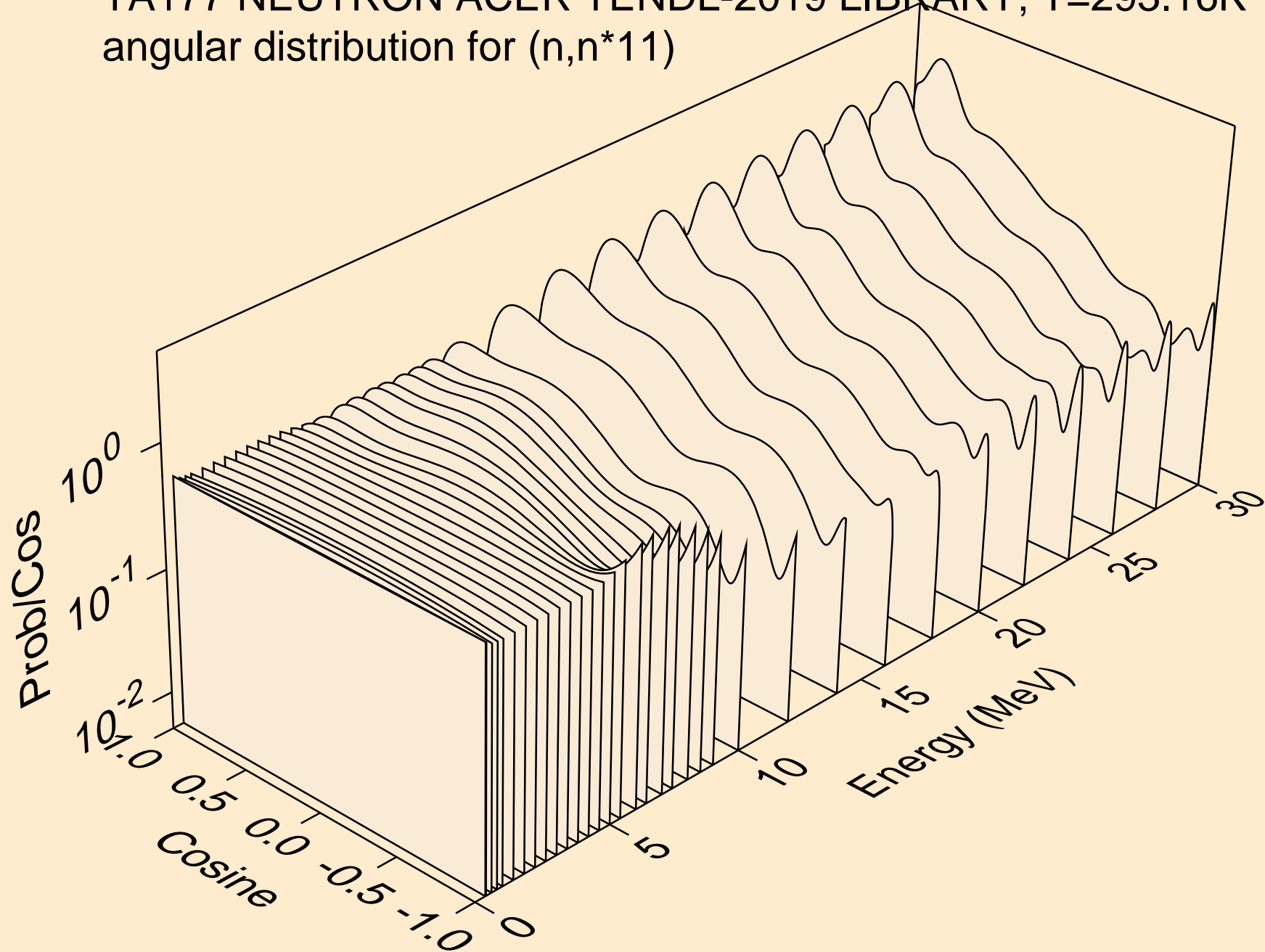
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angular distribution for (n,n\*9)



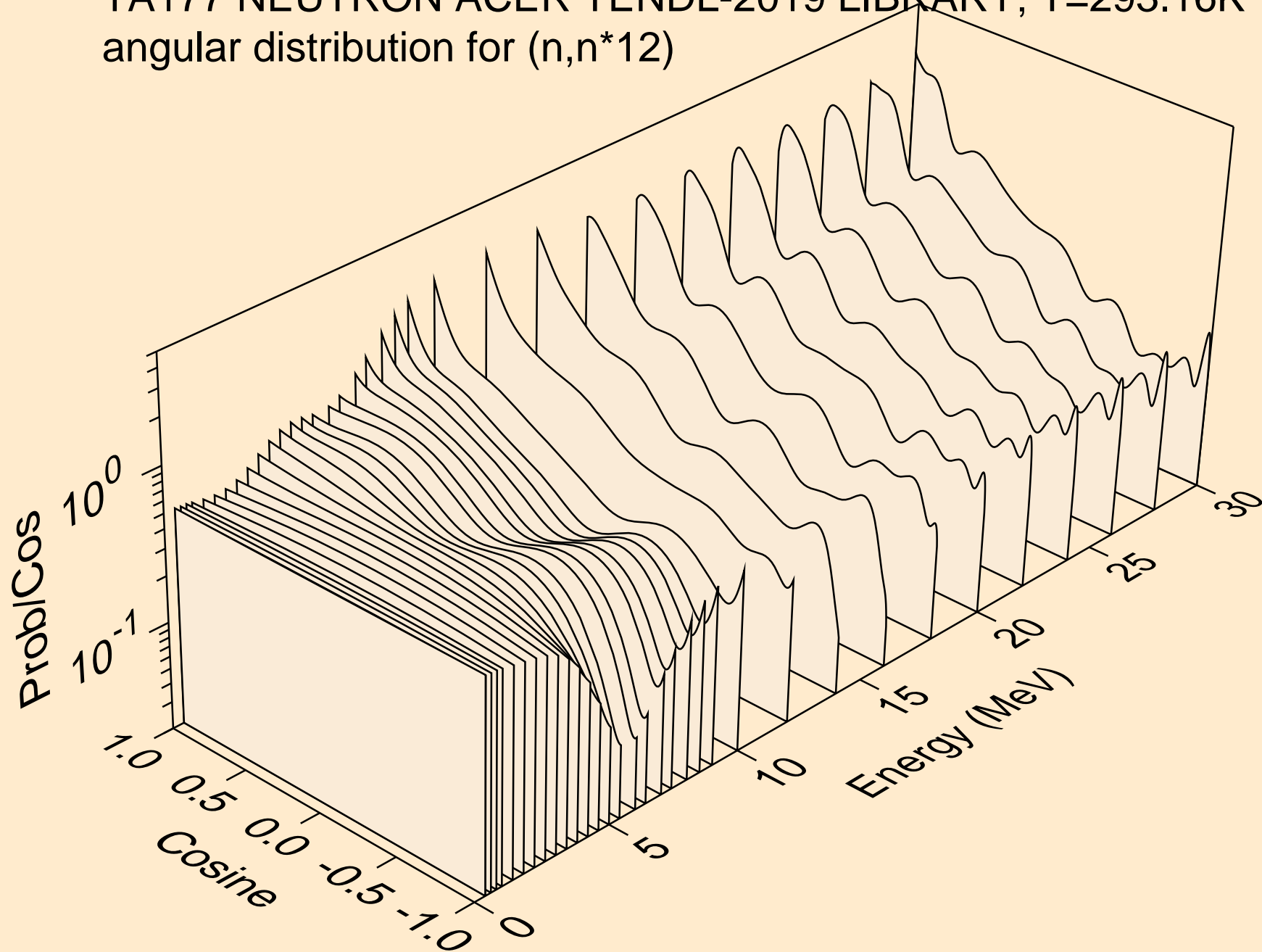
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angular distribution for (n,n\*10)



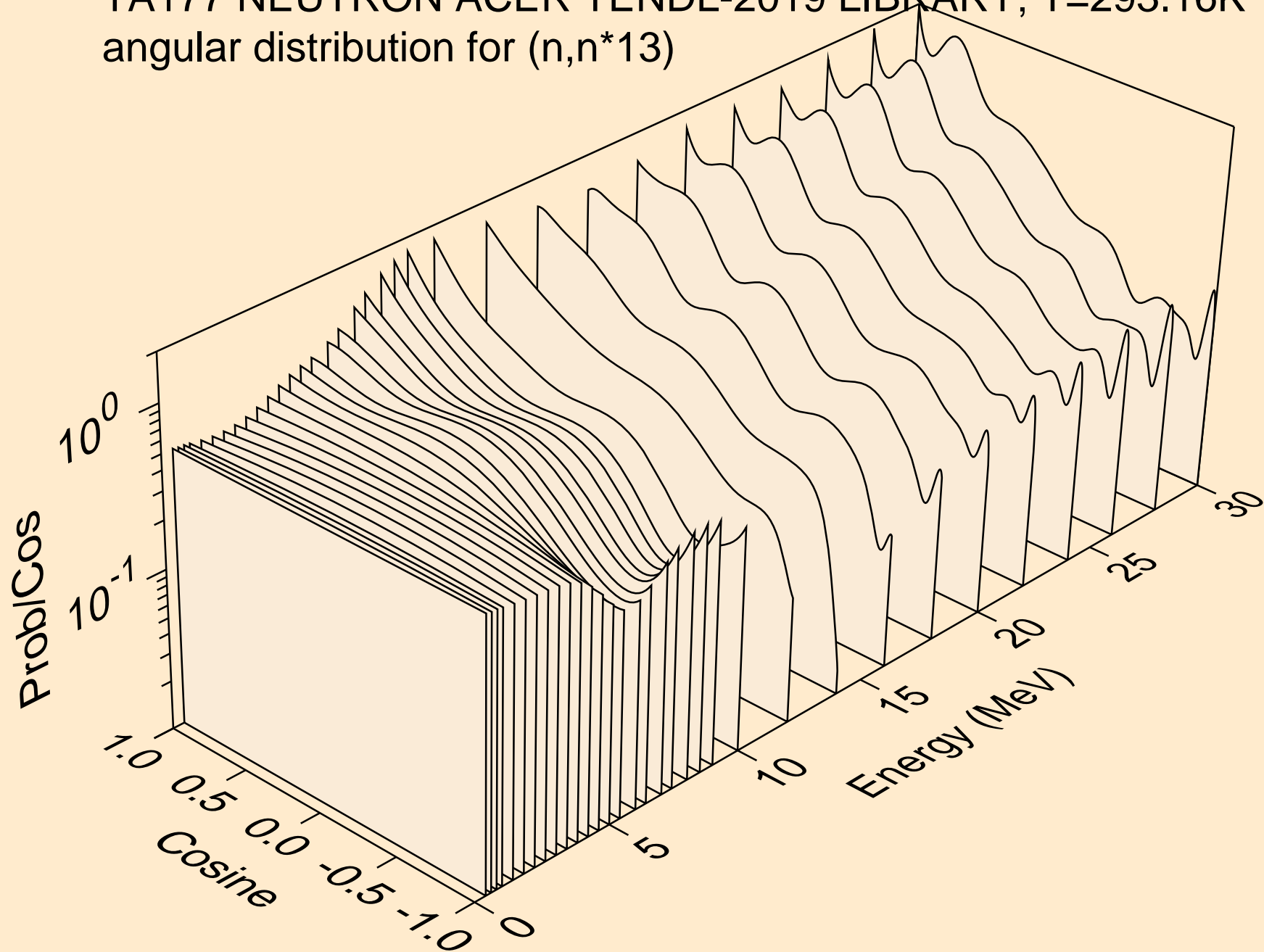
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angular distribution for (n,n\*11)



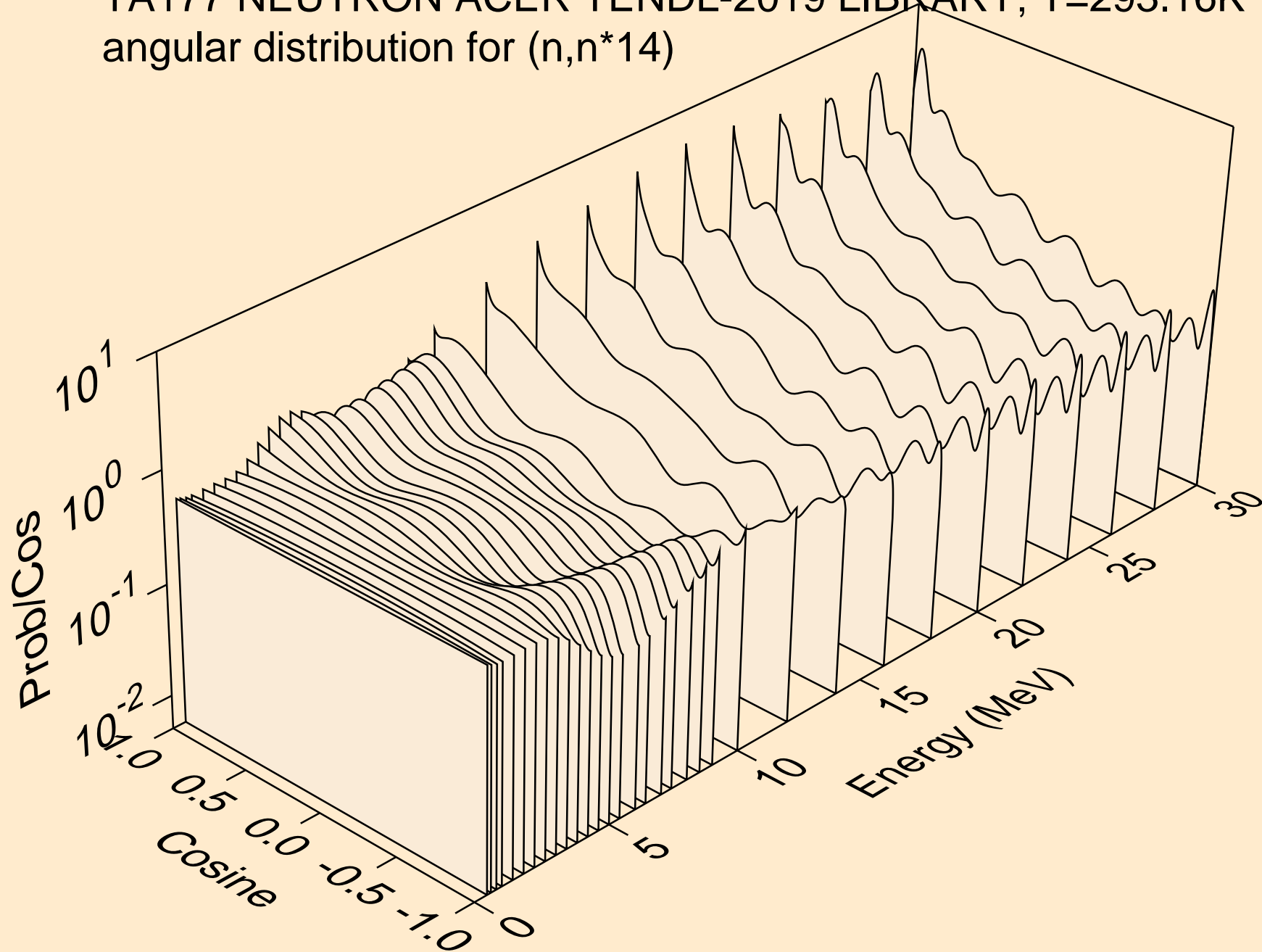
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angular distribution for (n,n\*12)



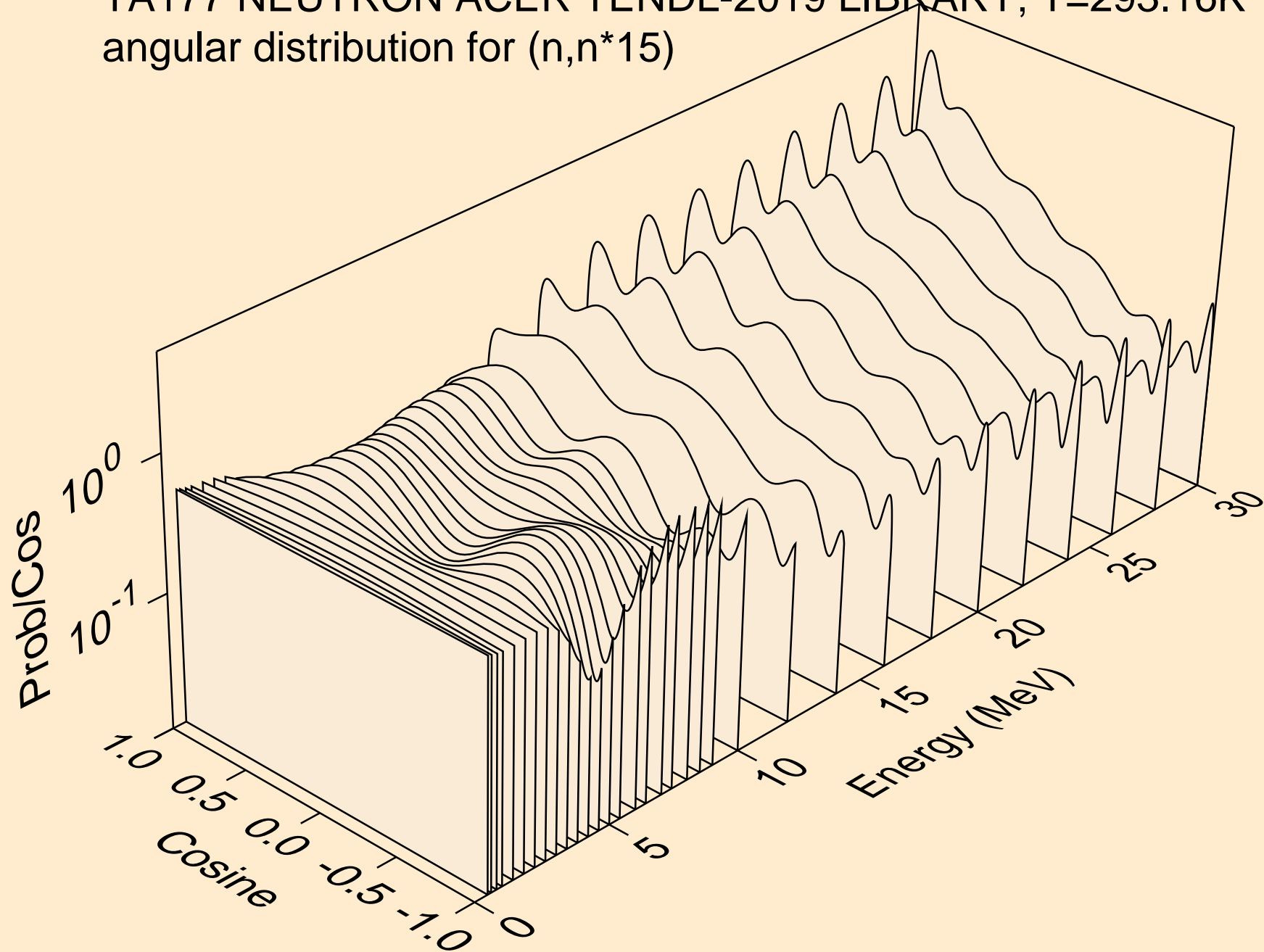
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)

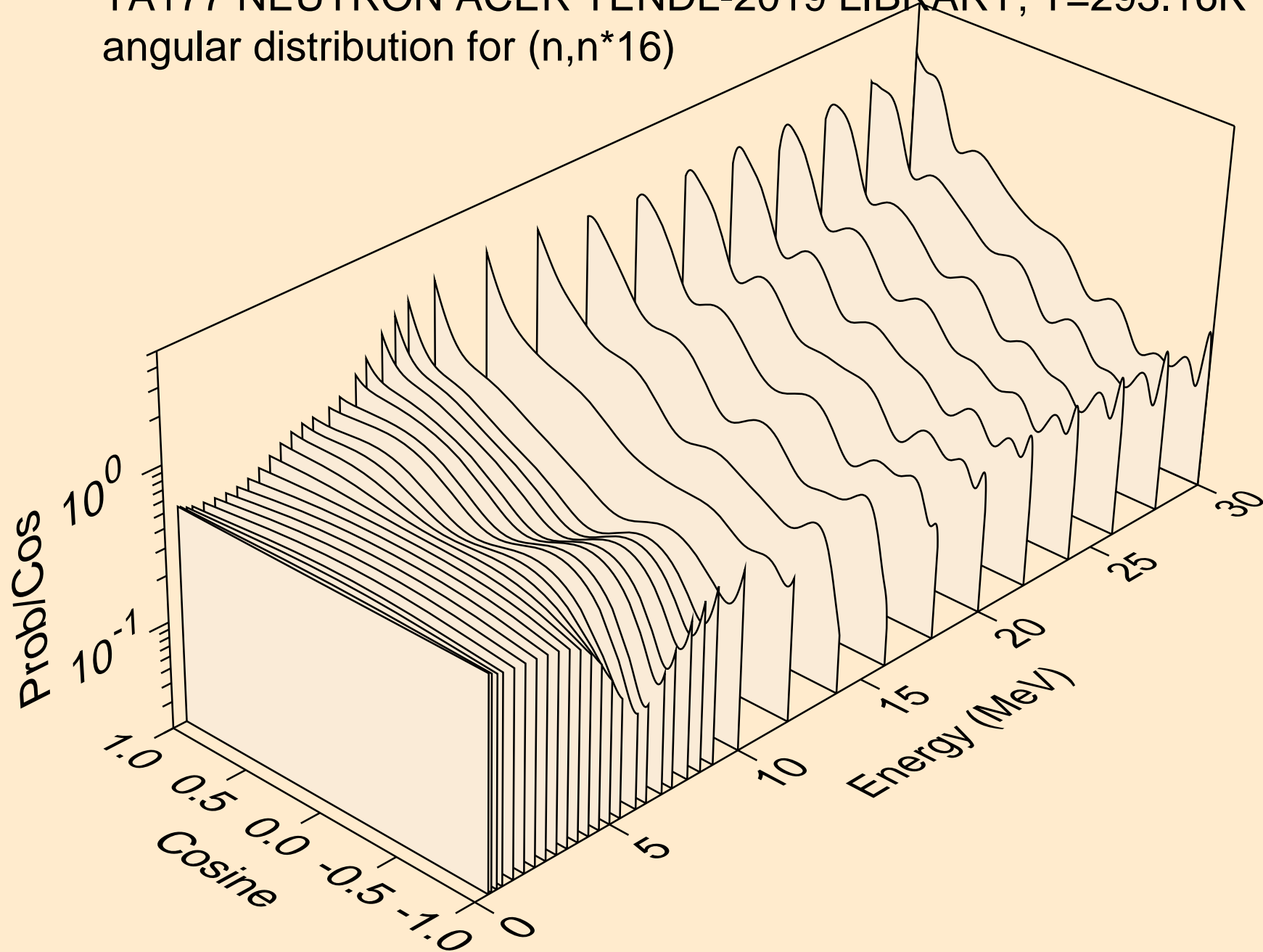


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)



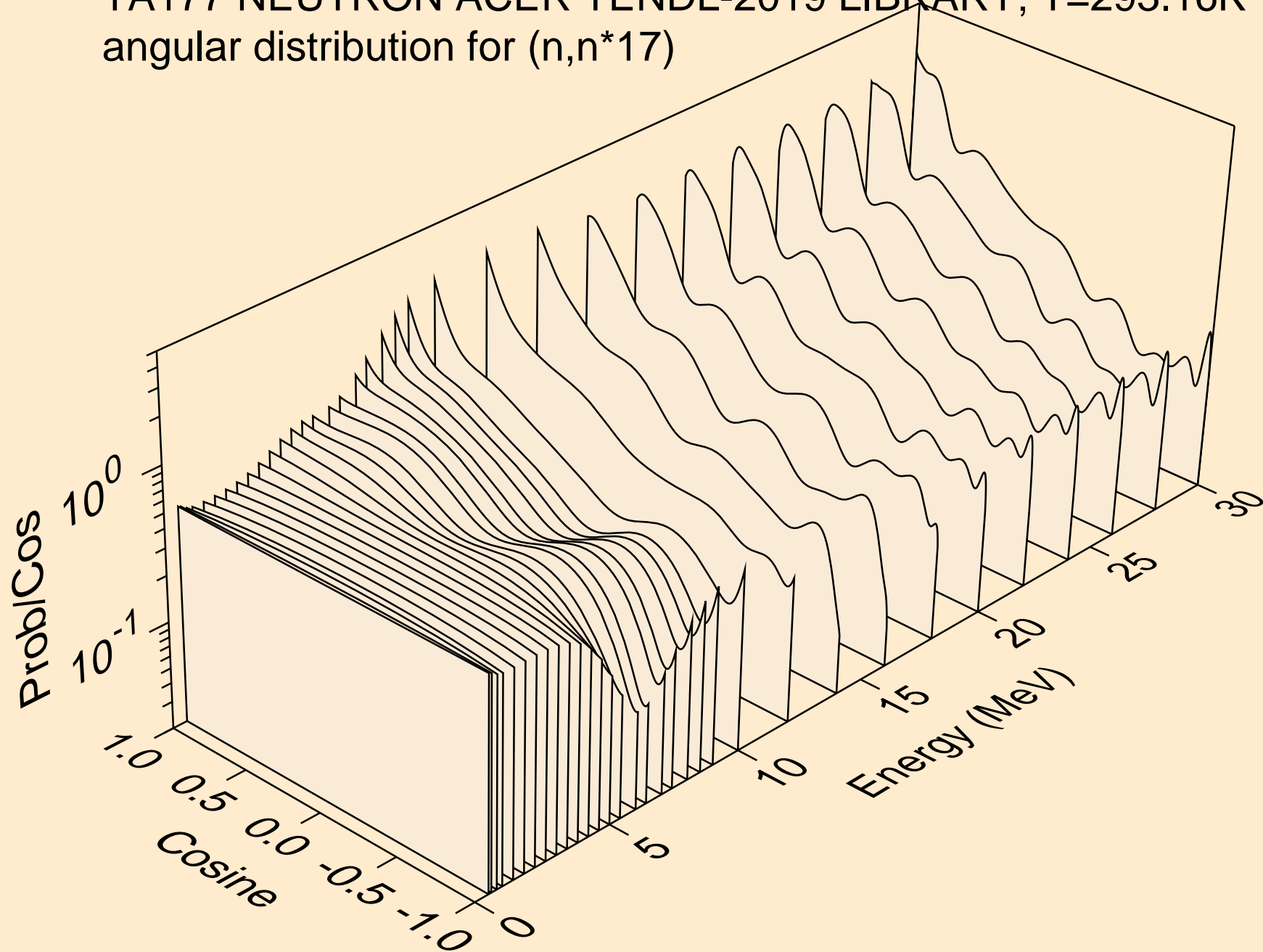


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angular distribution for (n,n\*16)

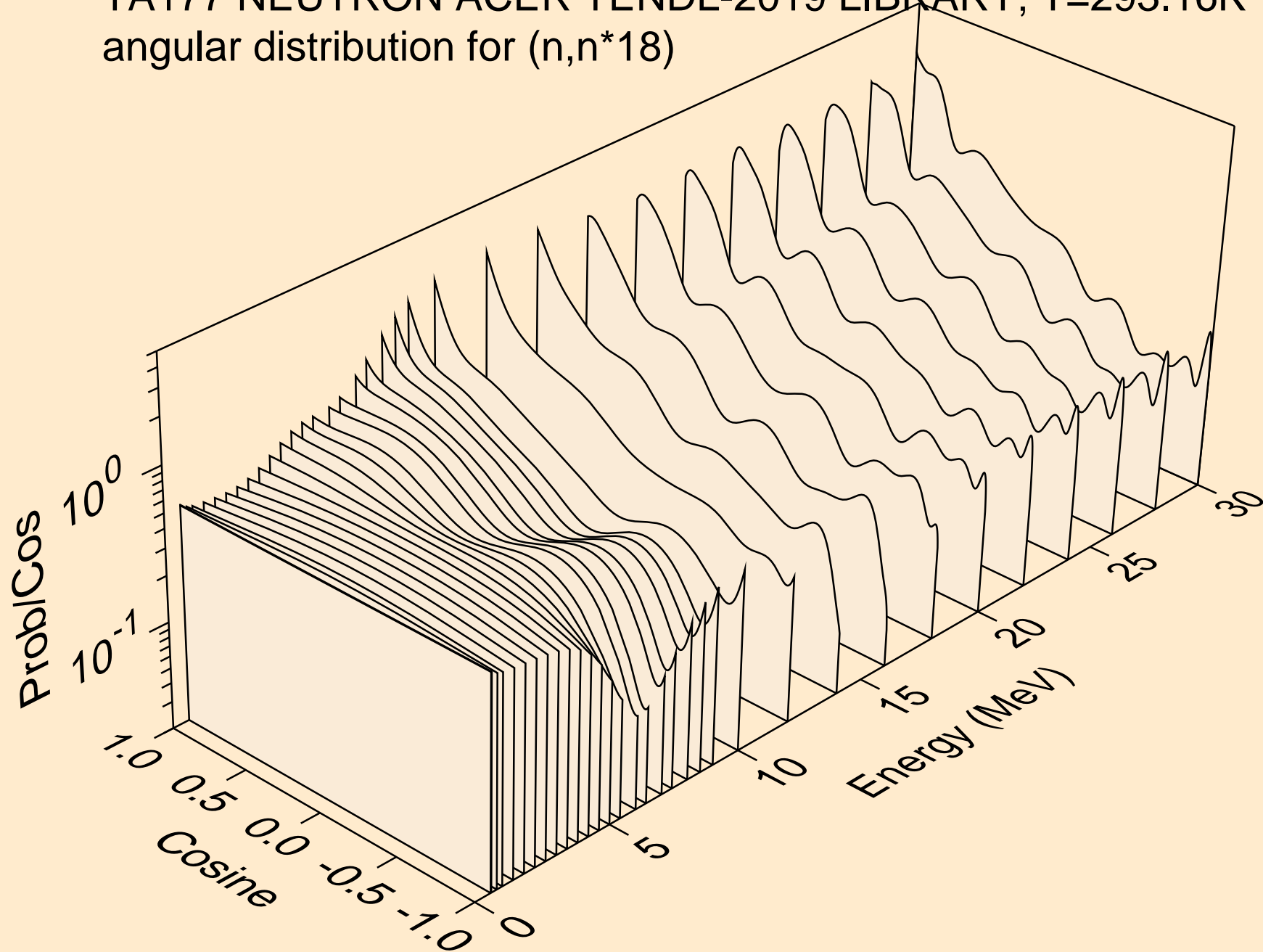




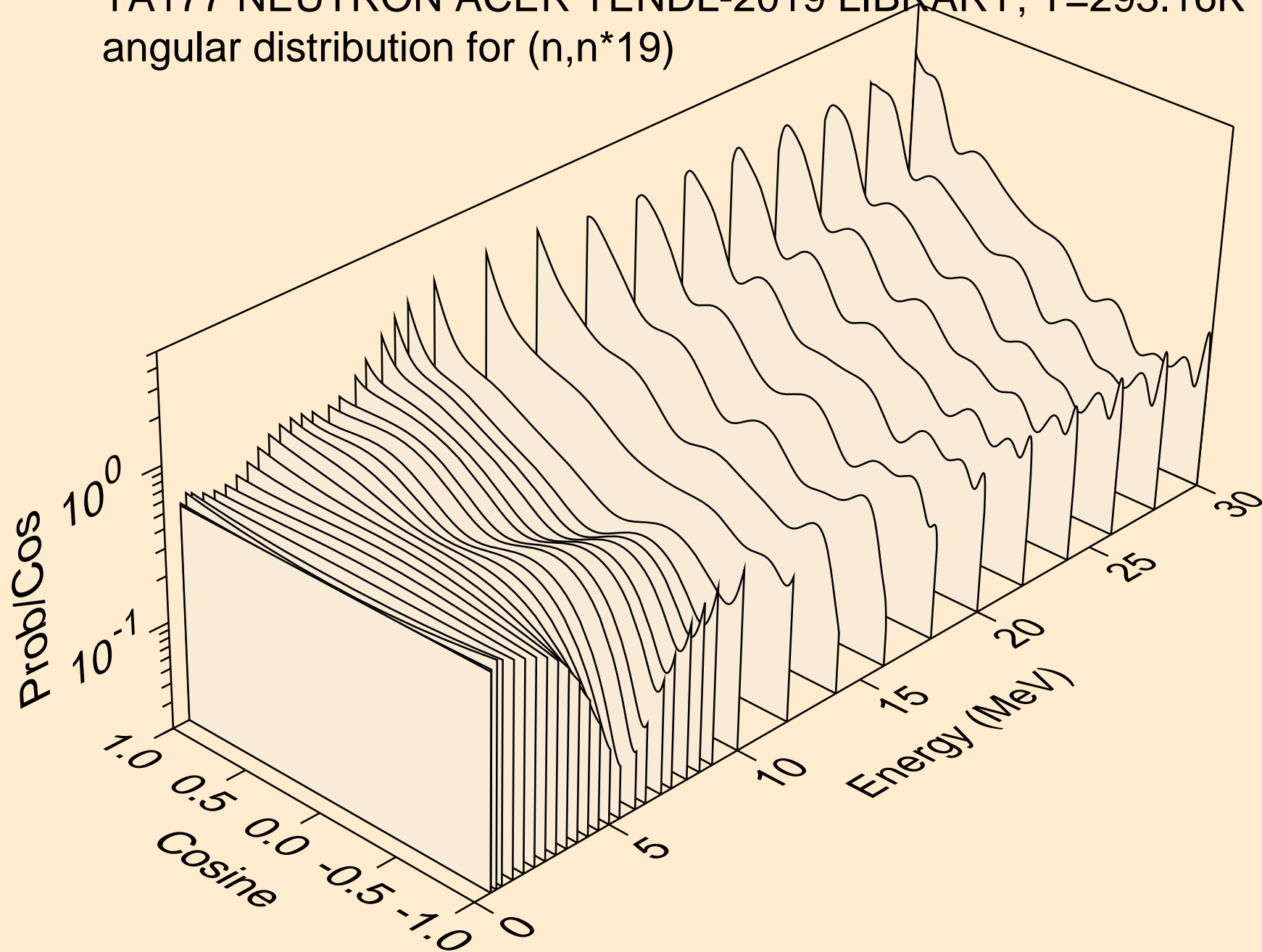
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angular distribution for (n,n\*17)



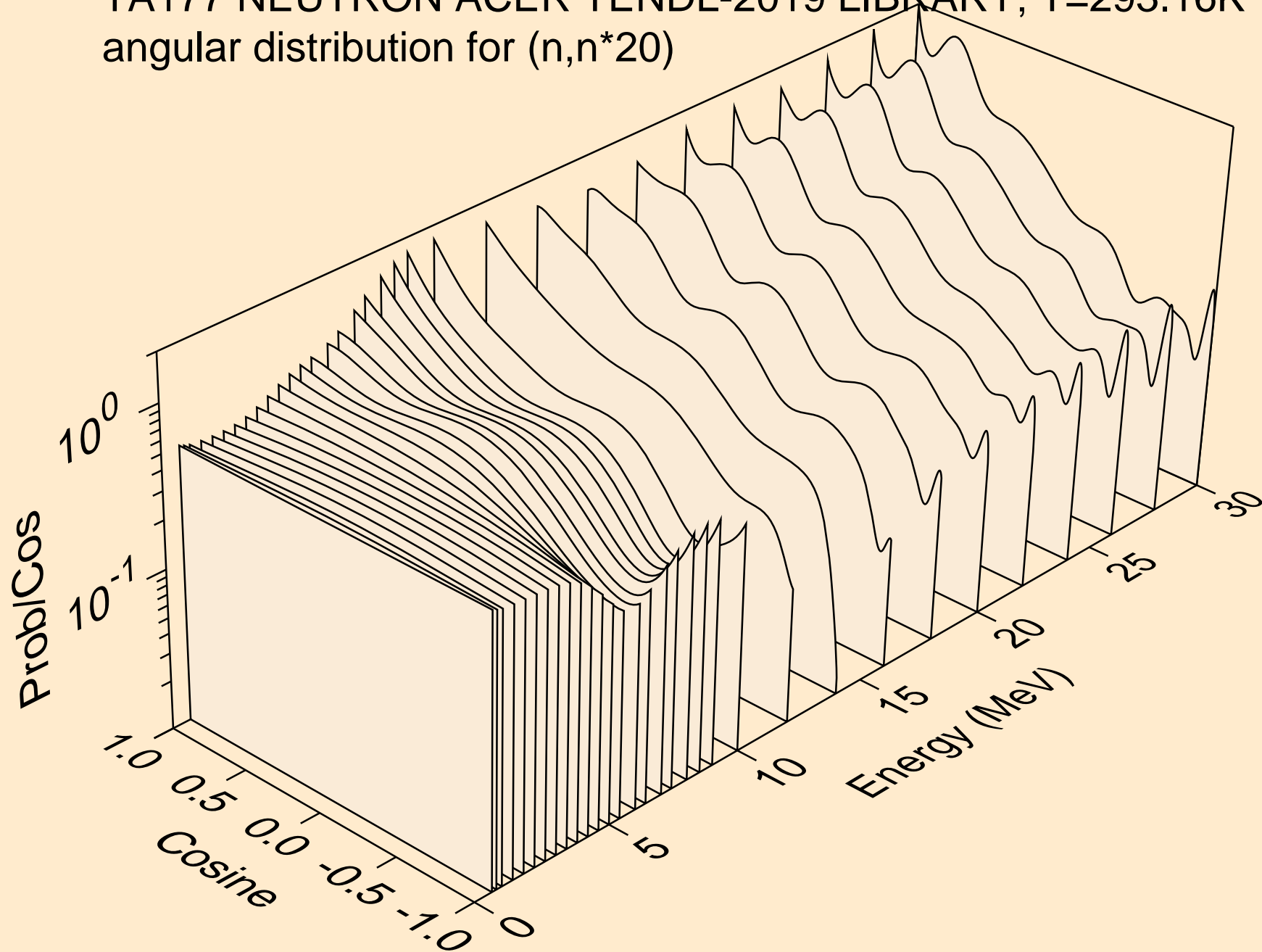
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angular distribution for (n,n\*18)



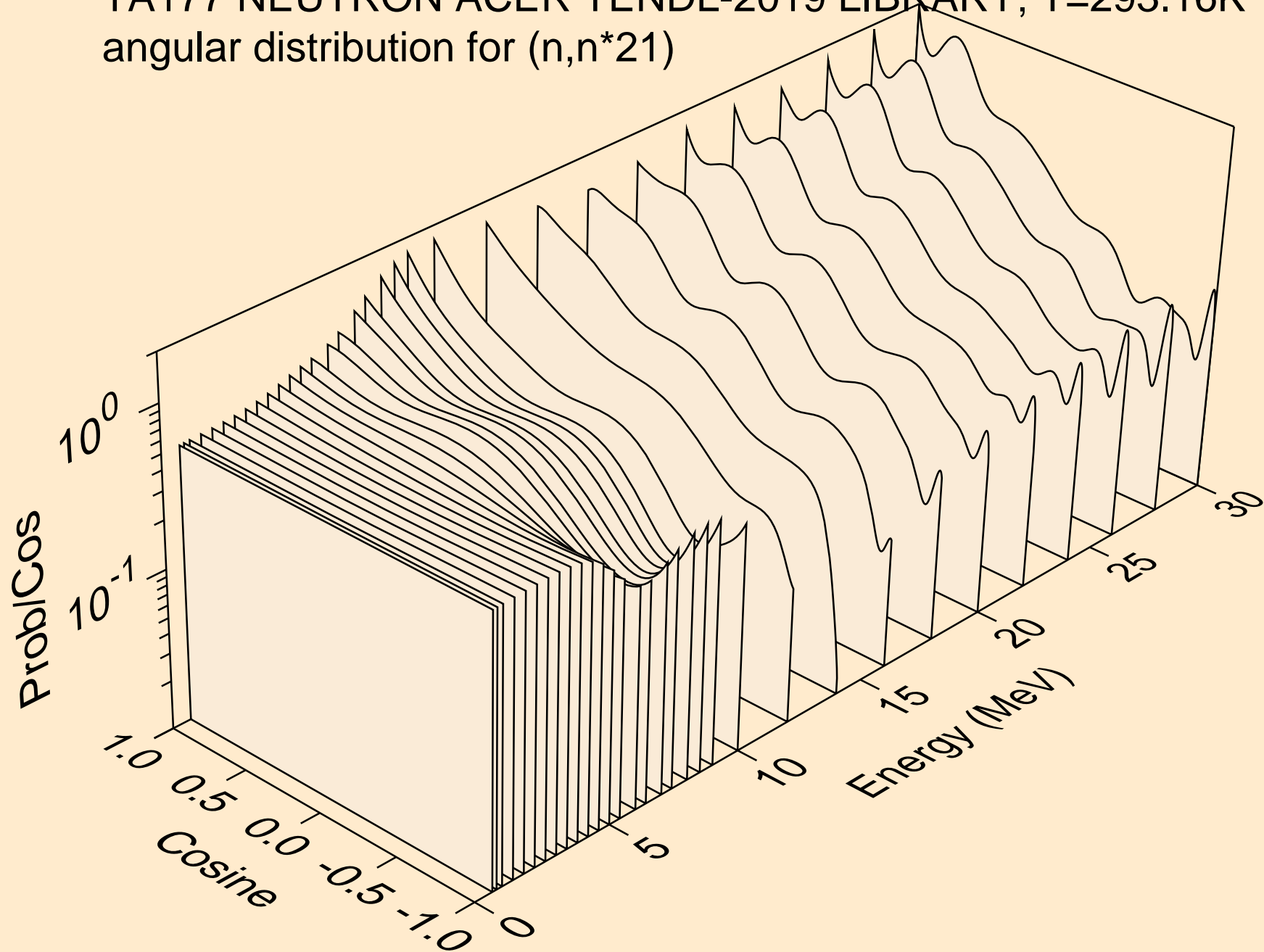
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angular distribution for (n,n\*19)



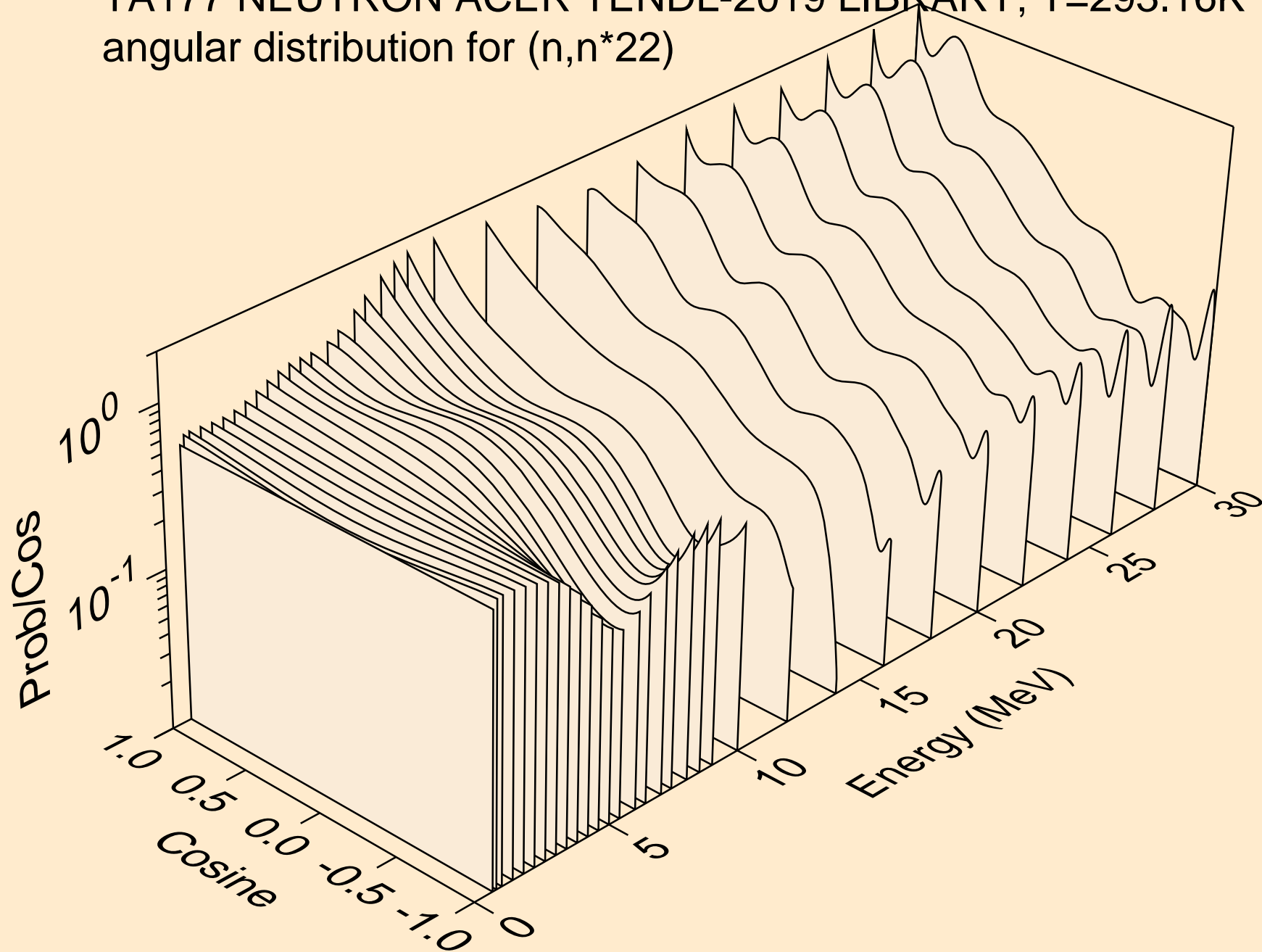
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angular distribution for (n,n\*20)



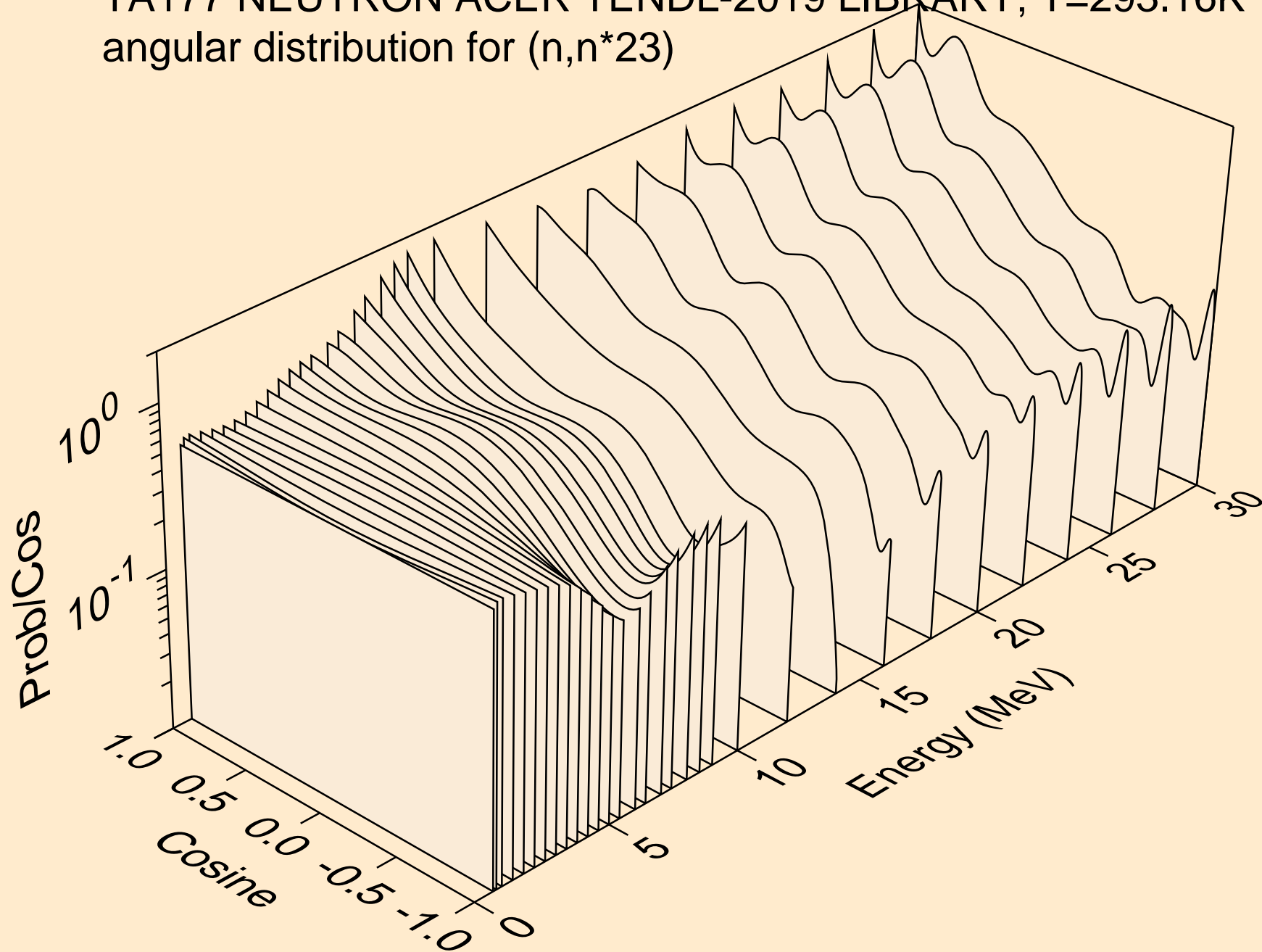
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)

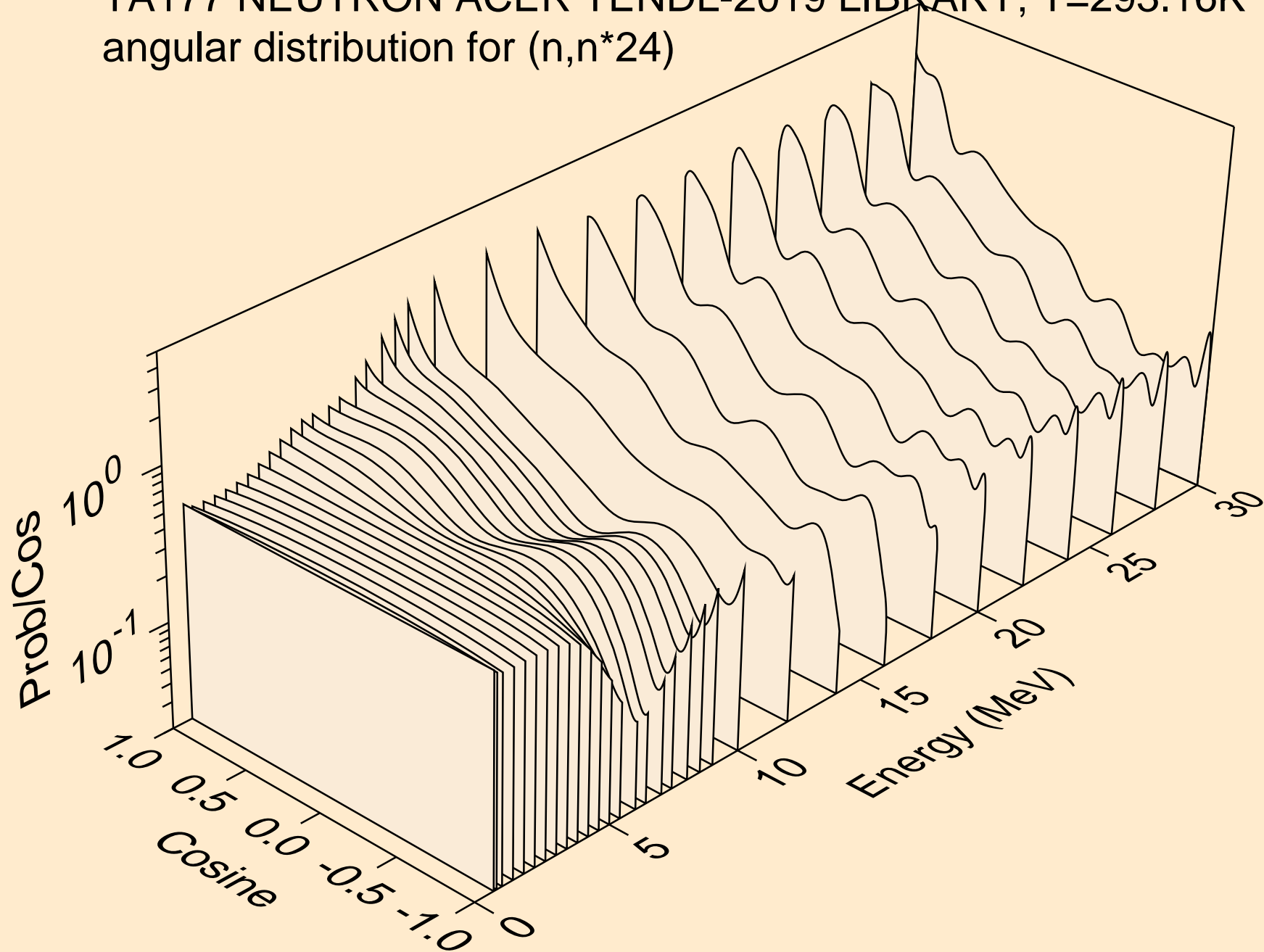


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angular distribution for (n,n\*23)



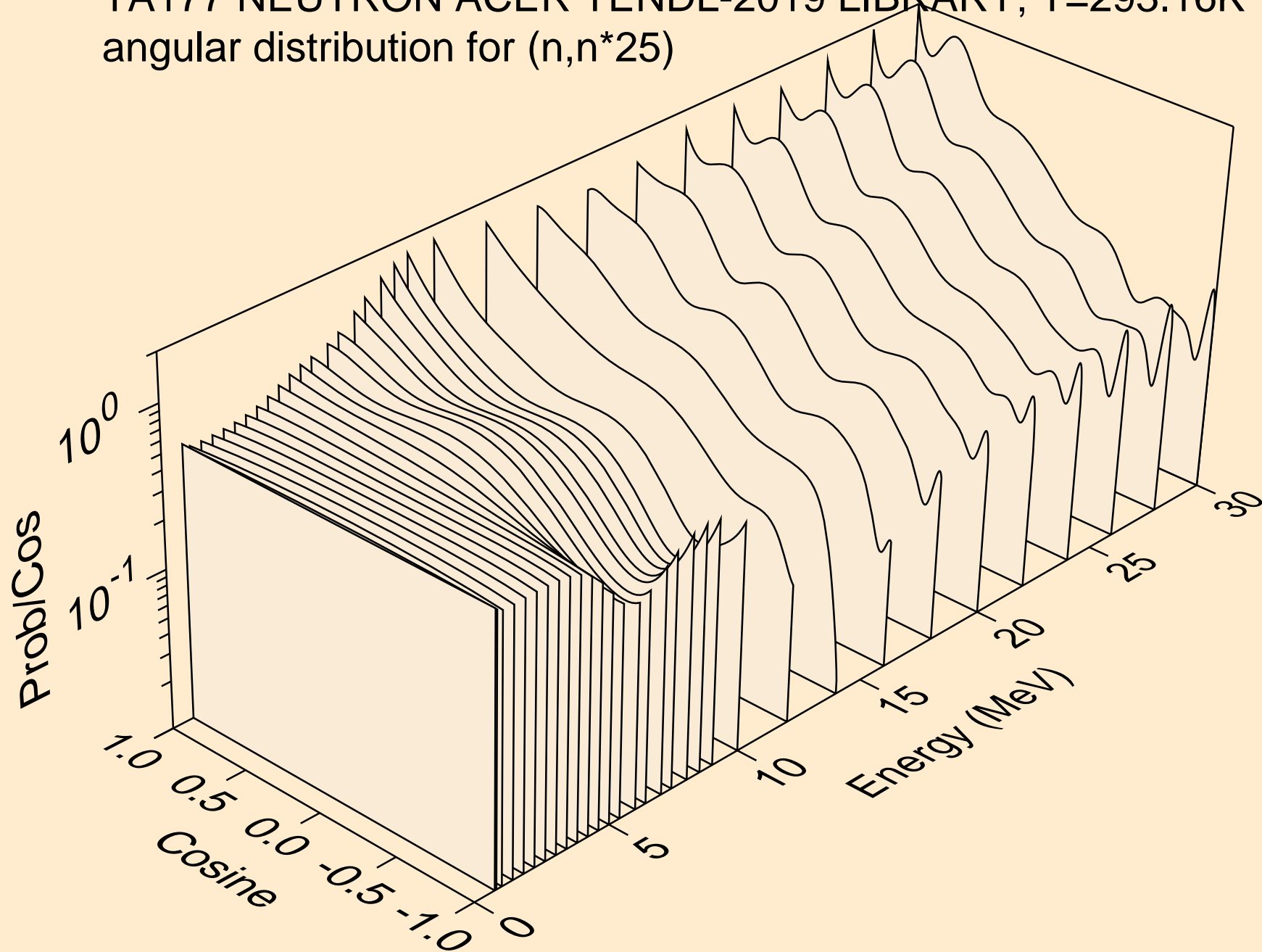


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)

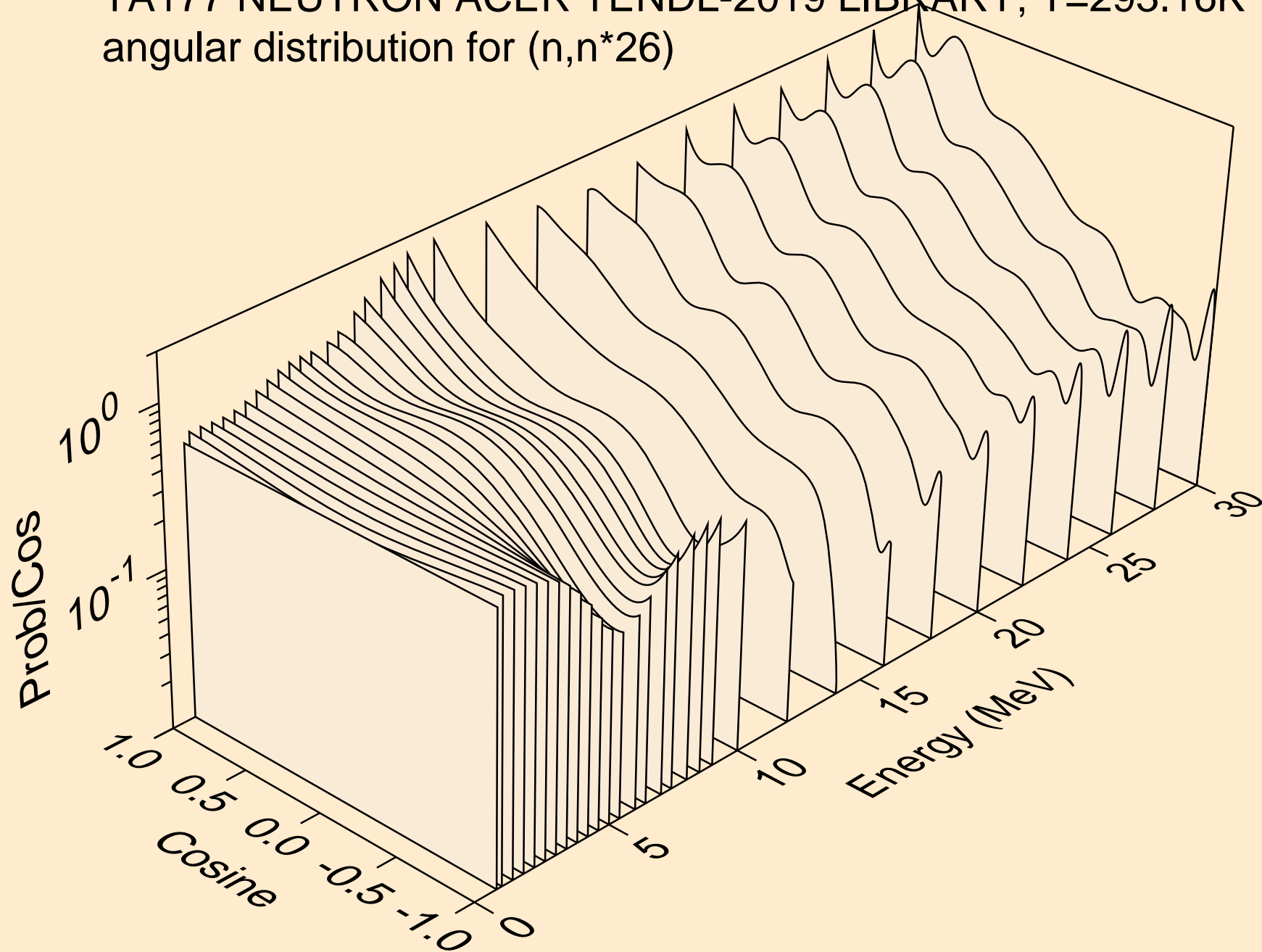




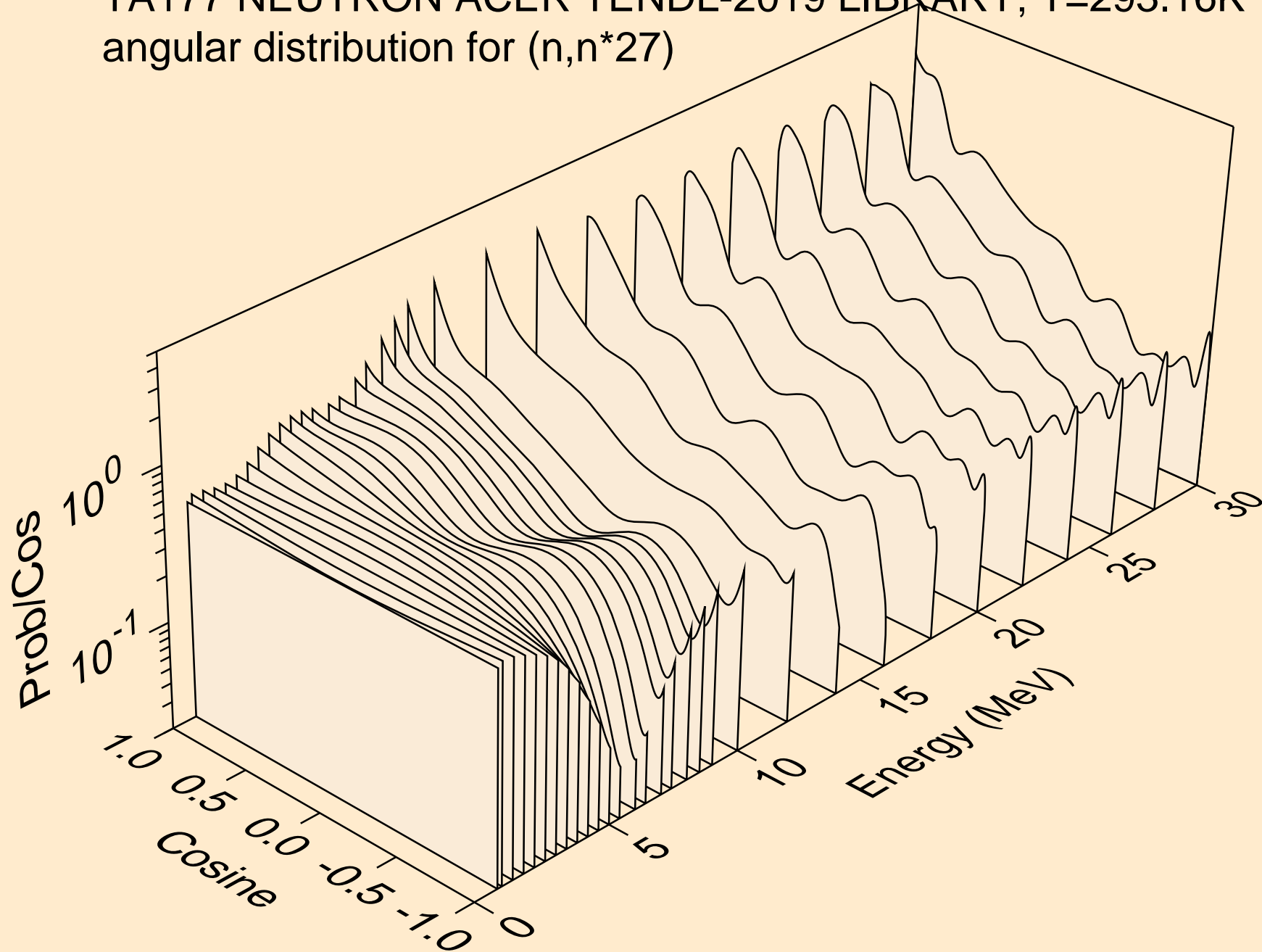
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angular distribution for (n,n\*25)



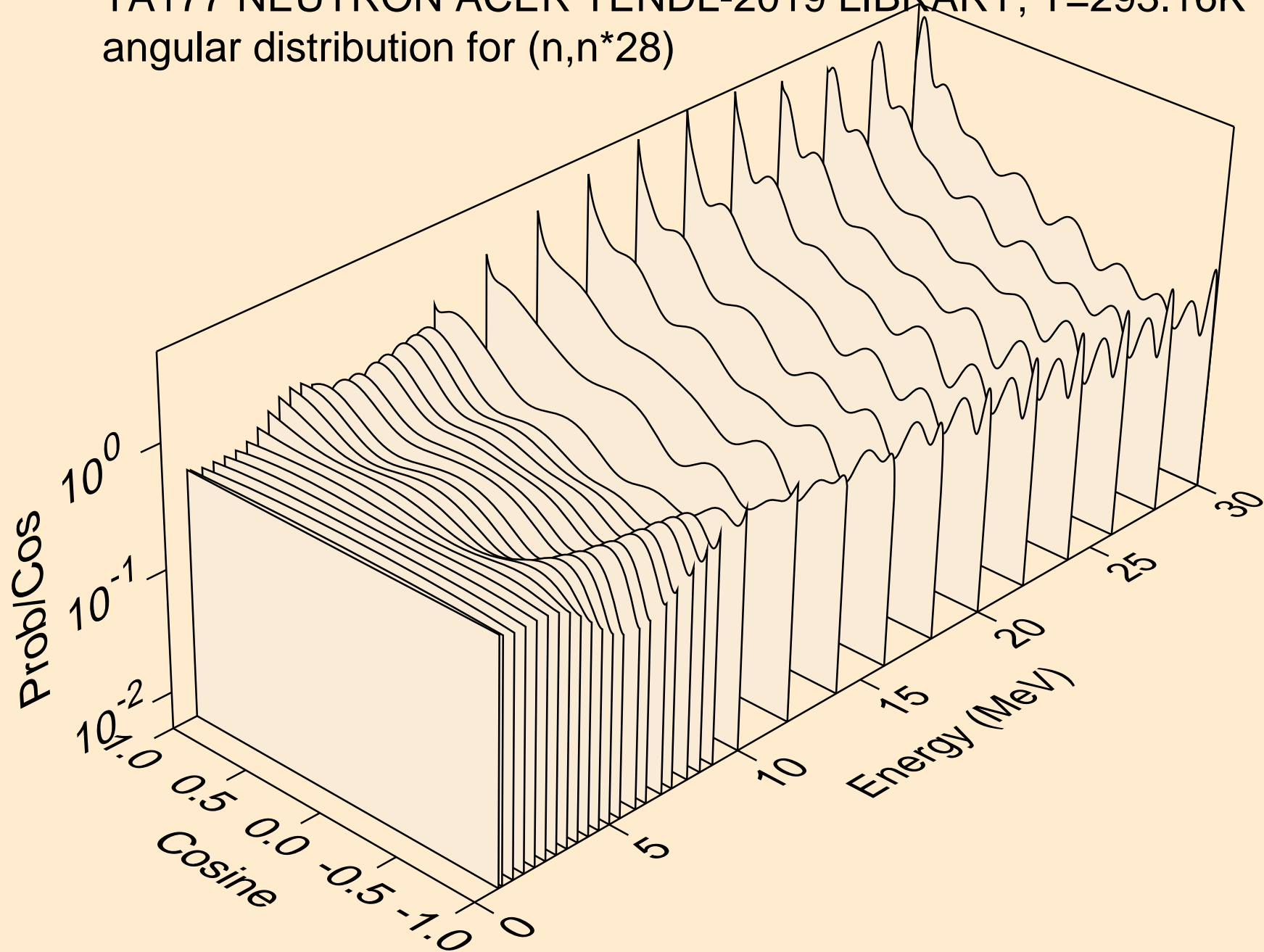
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angular distribution for (n,n\*26)



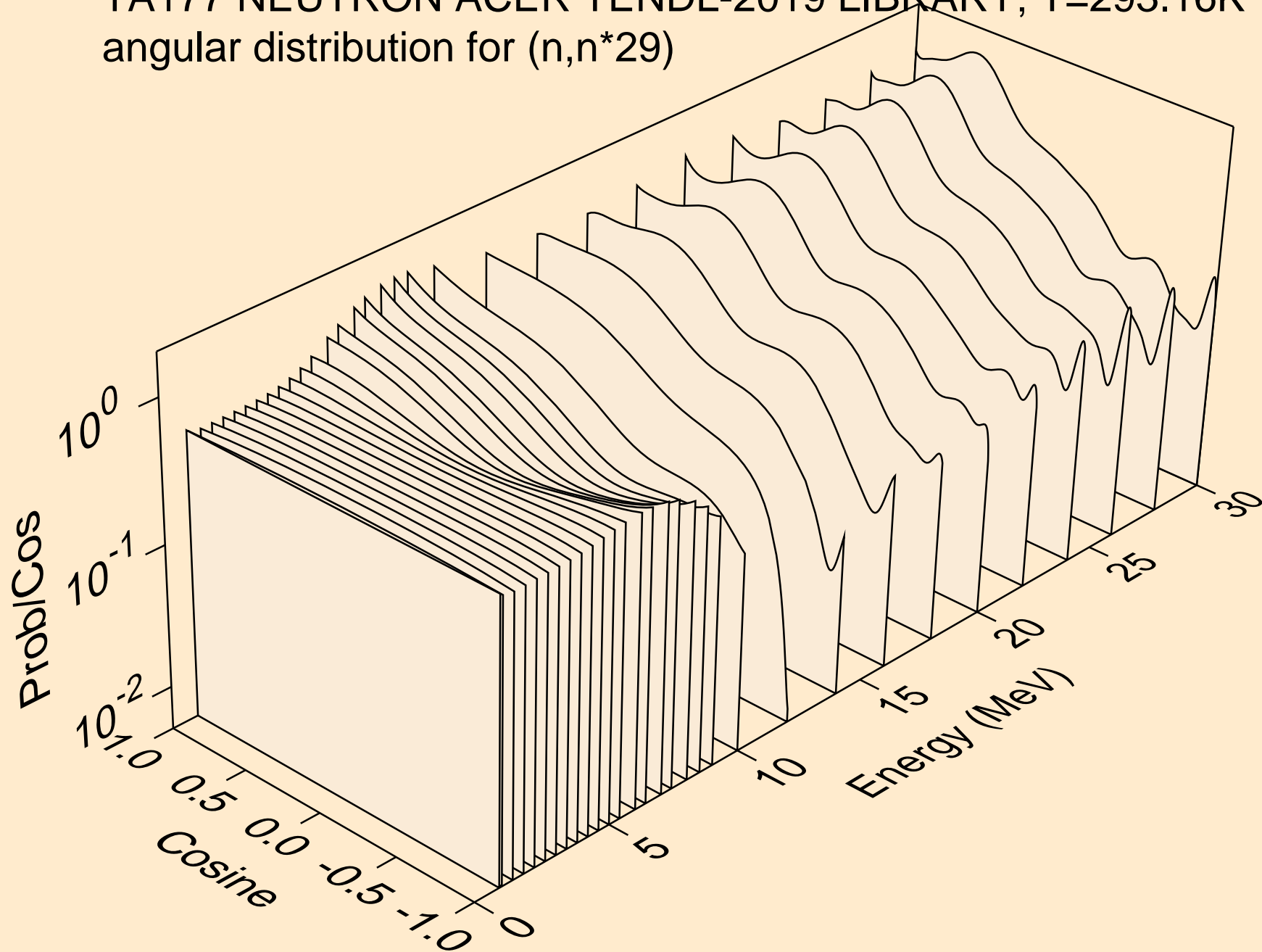
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angular distribution for (n,n\*27)



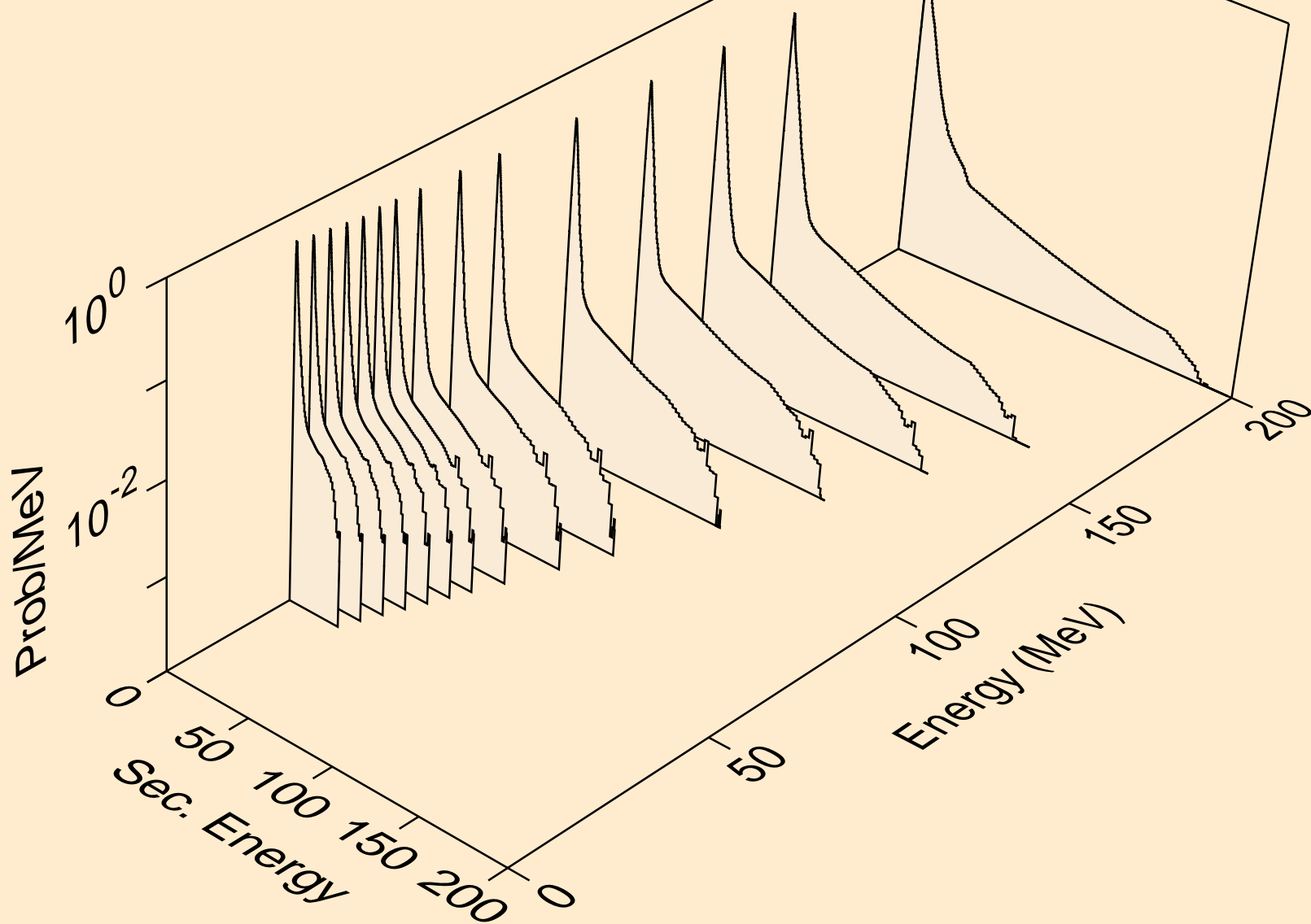
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angular distribution for (n,n\*28)



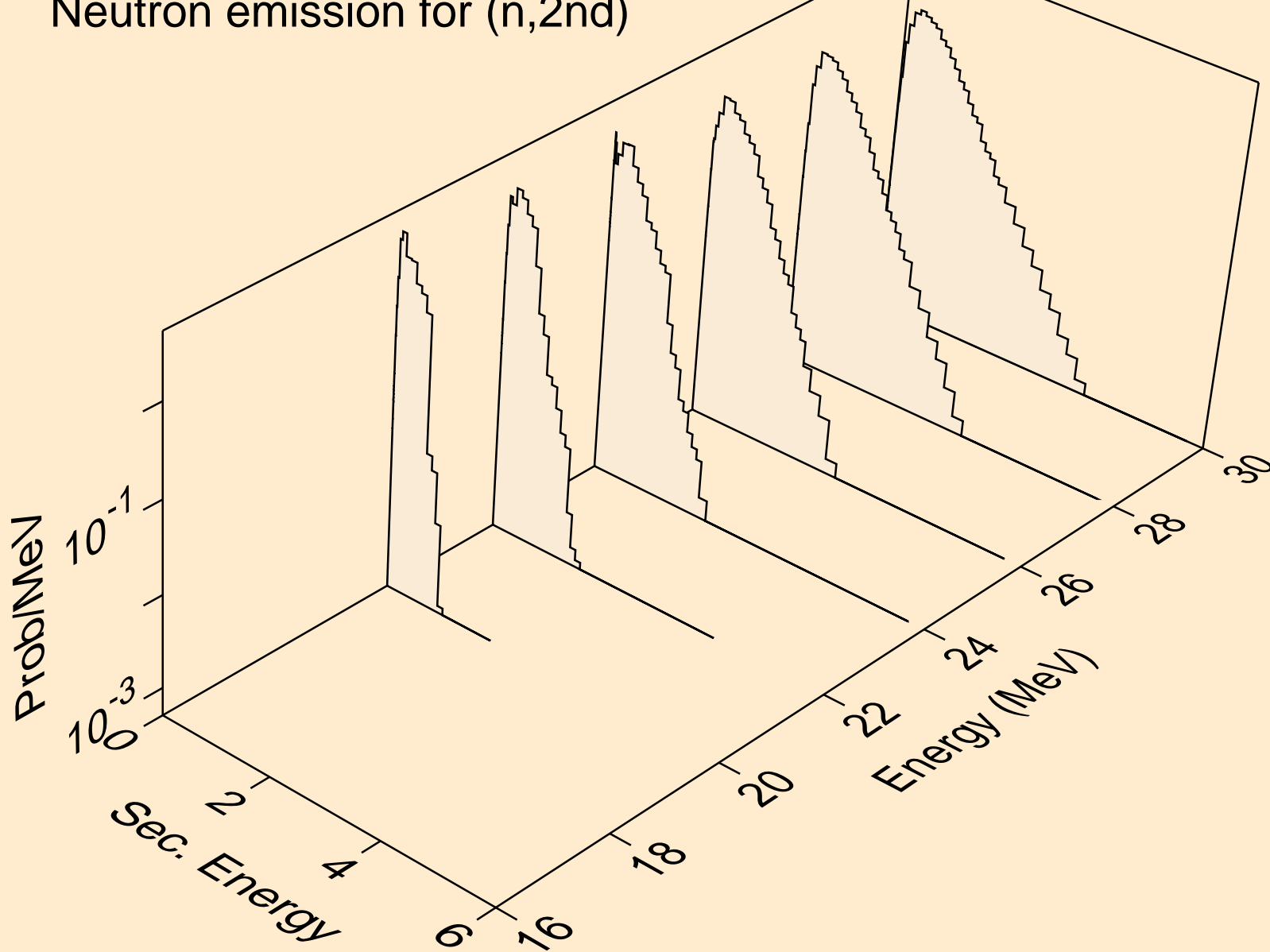
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angular distribution for (n,n\*29)



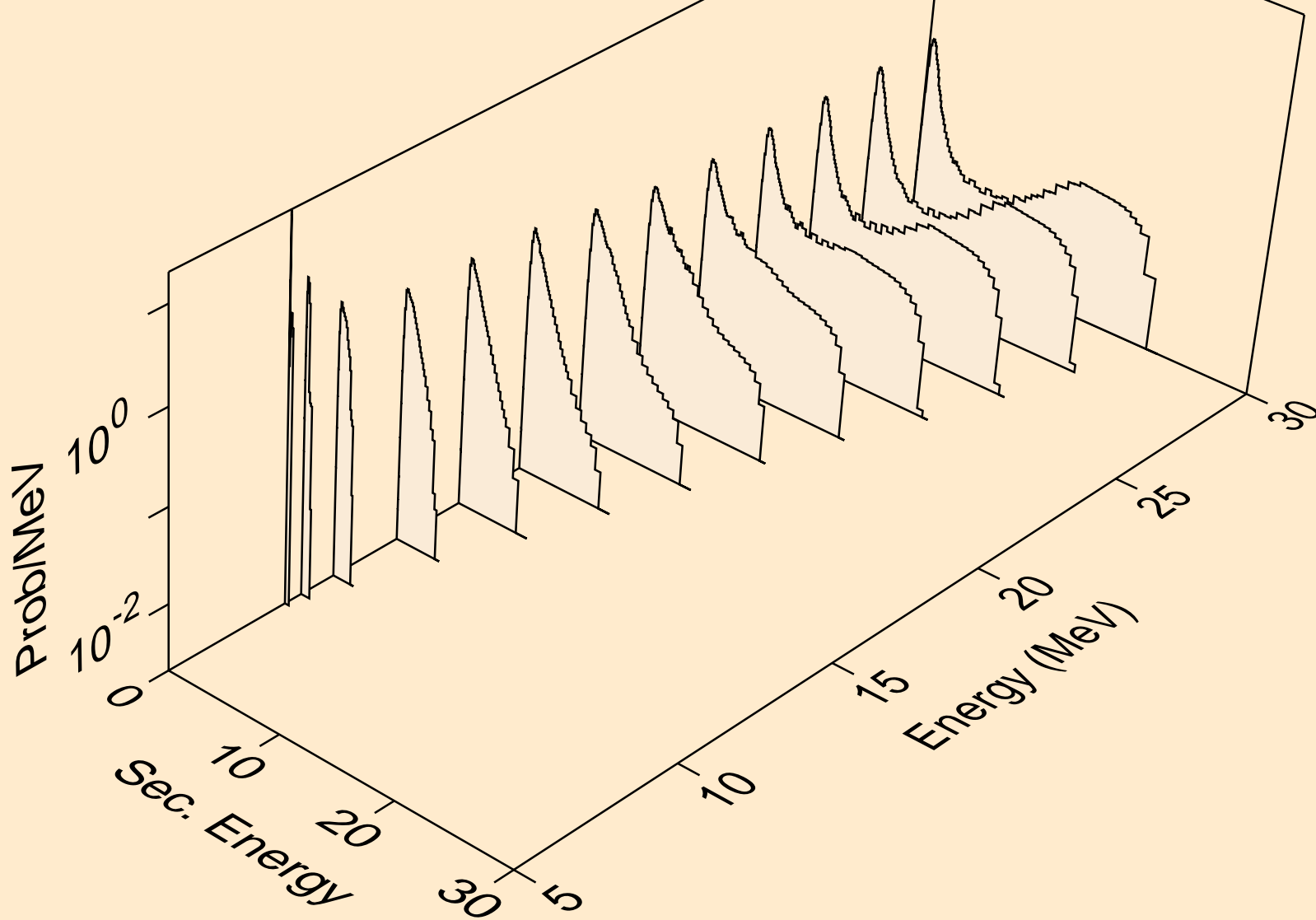
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

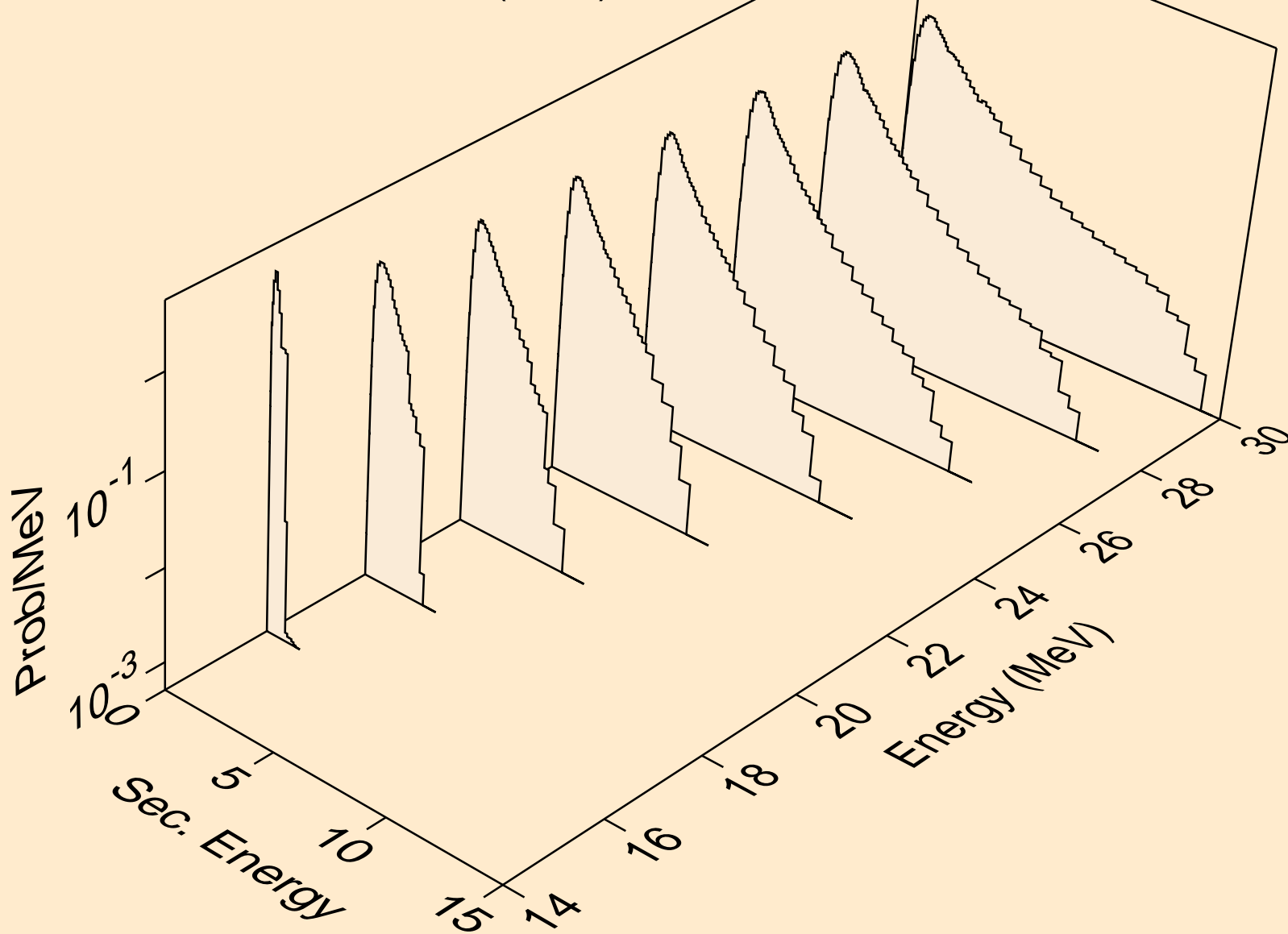


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

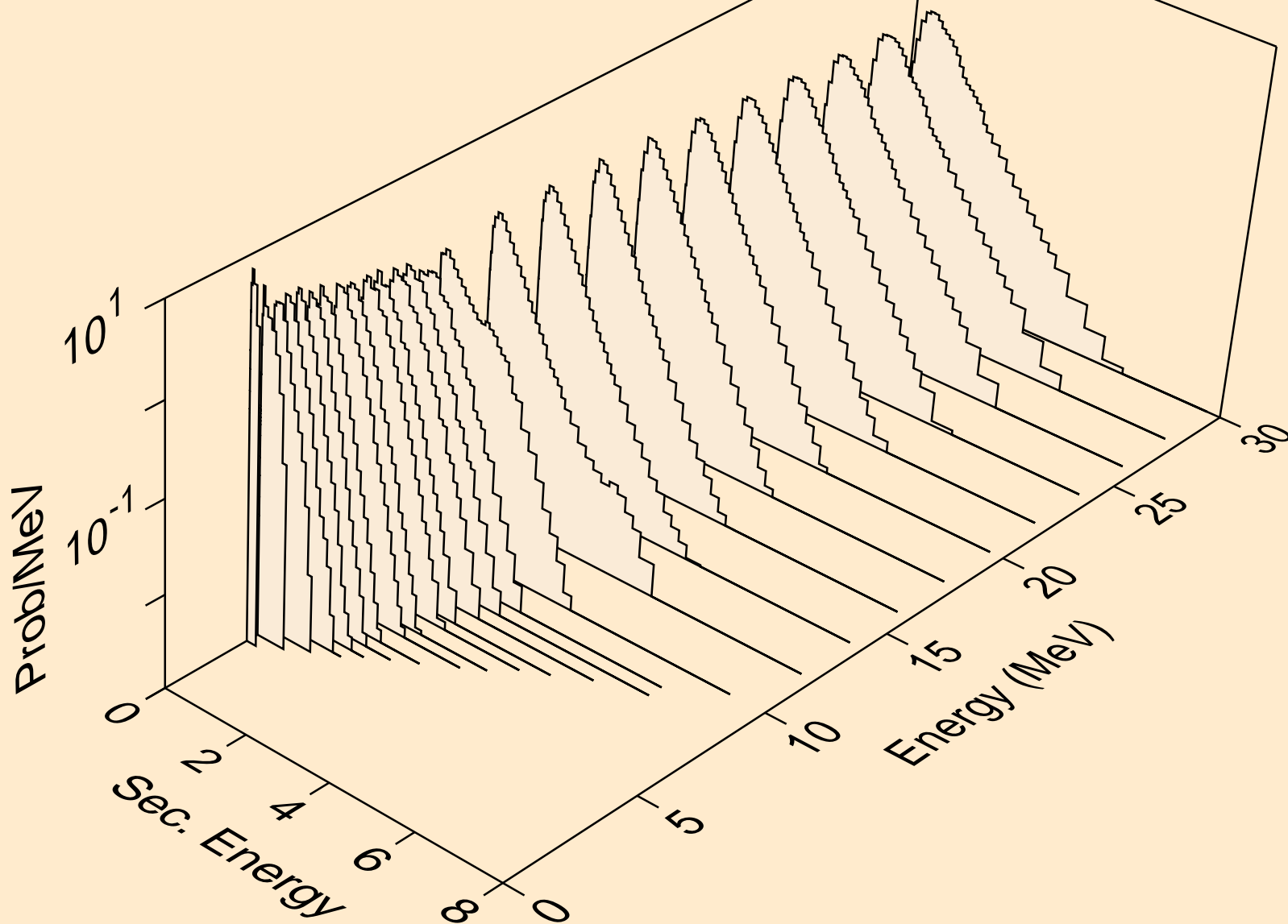




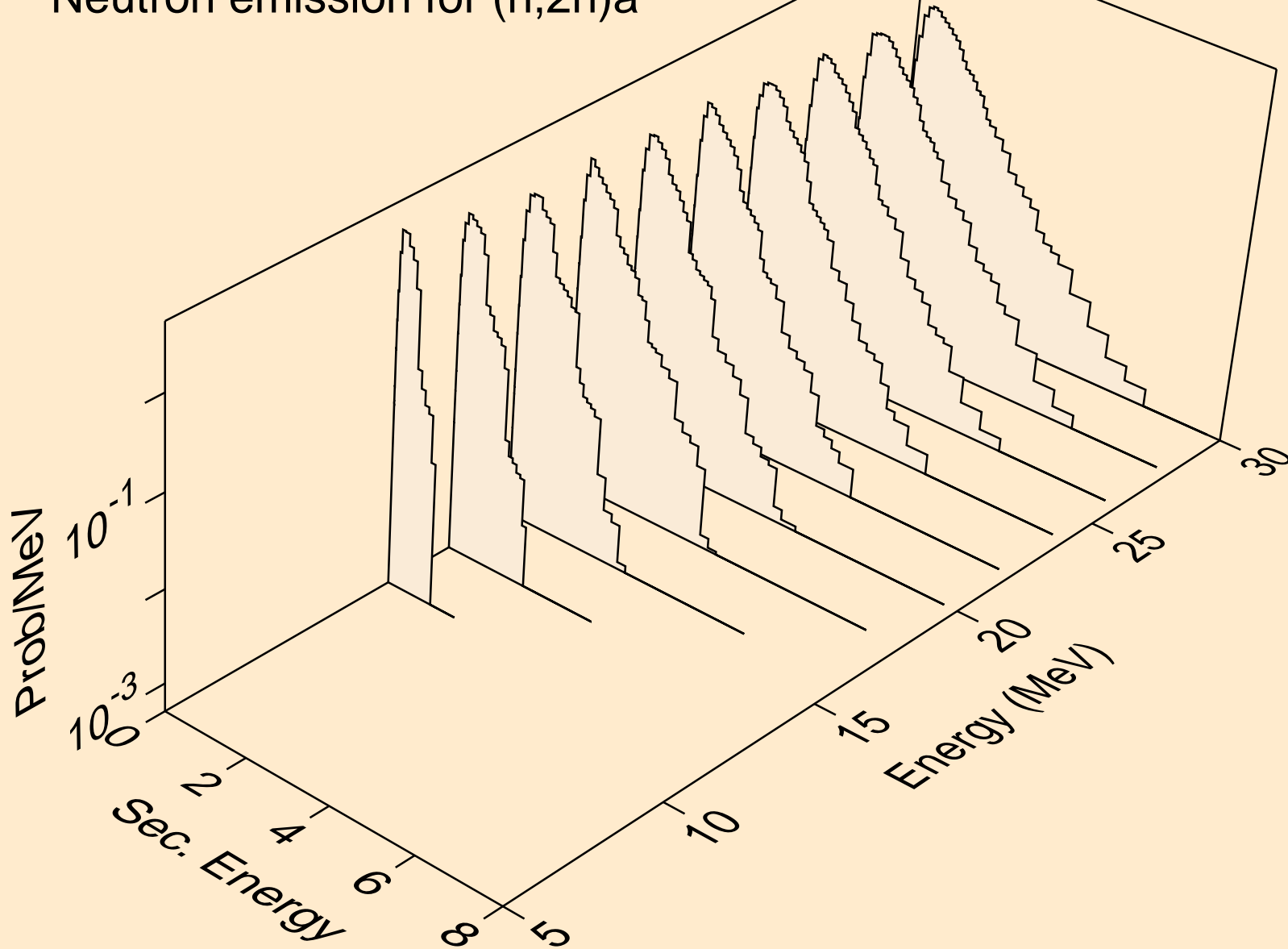
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



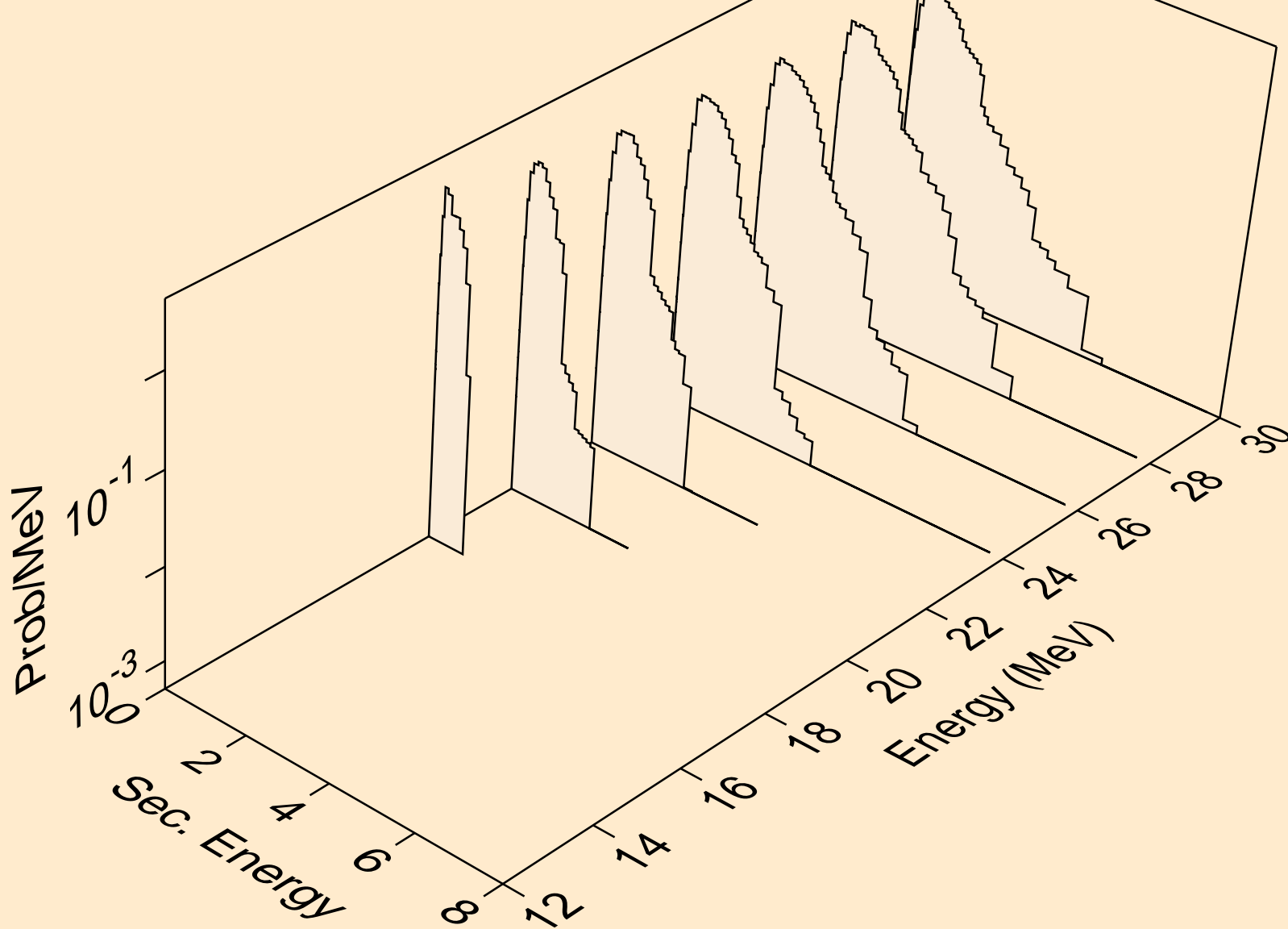
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



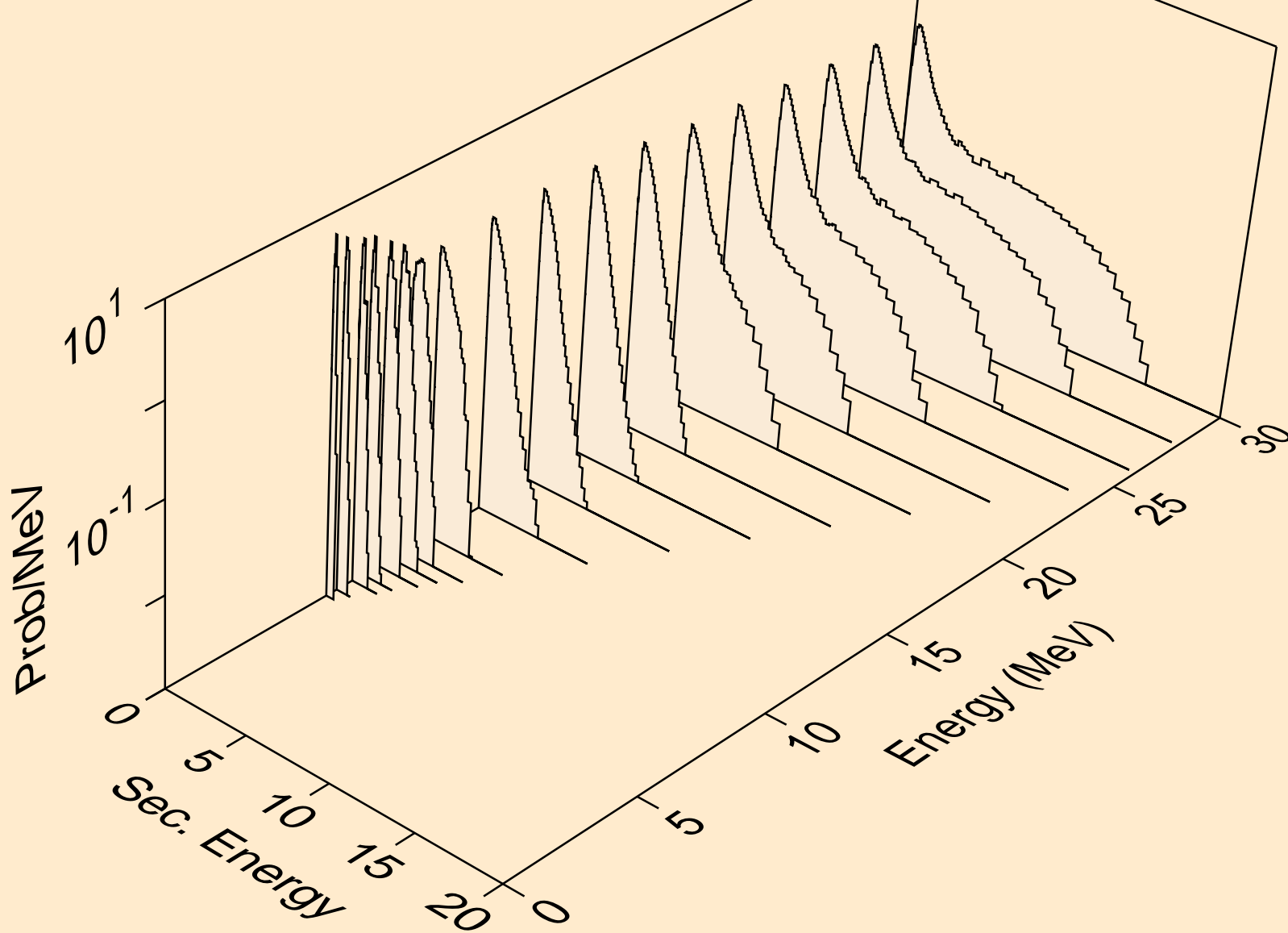
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



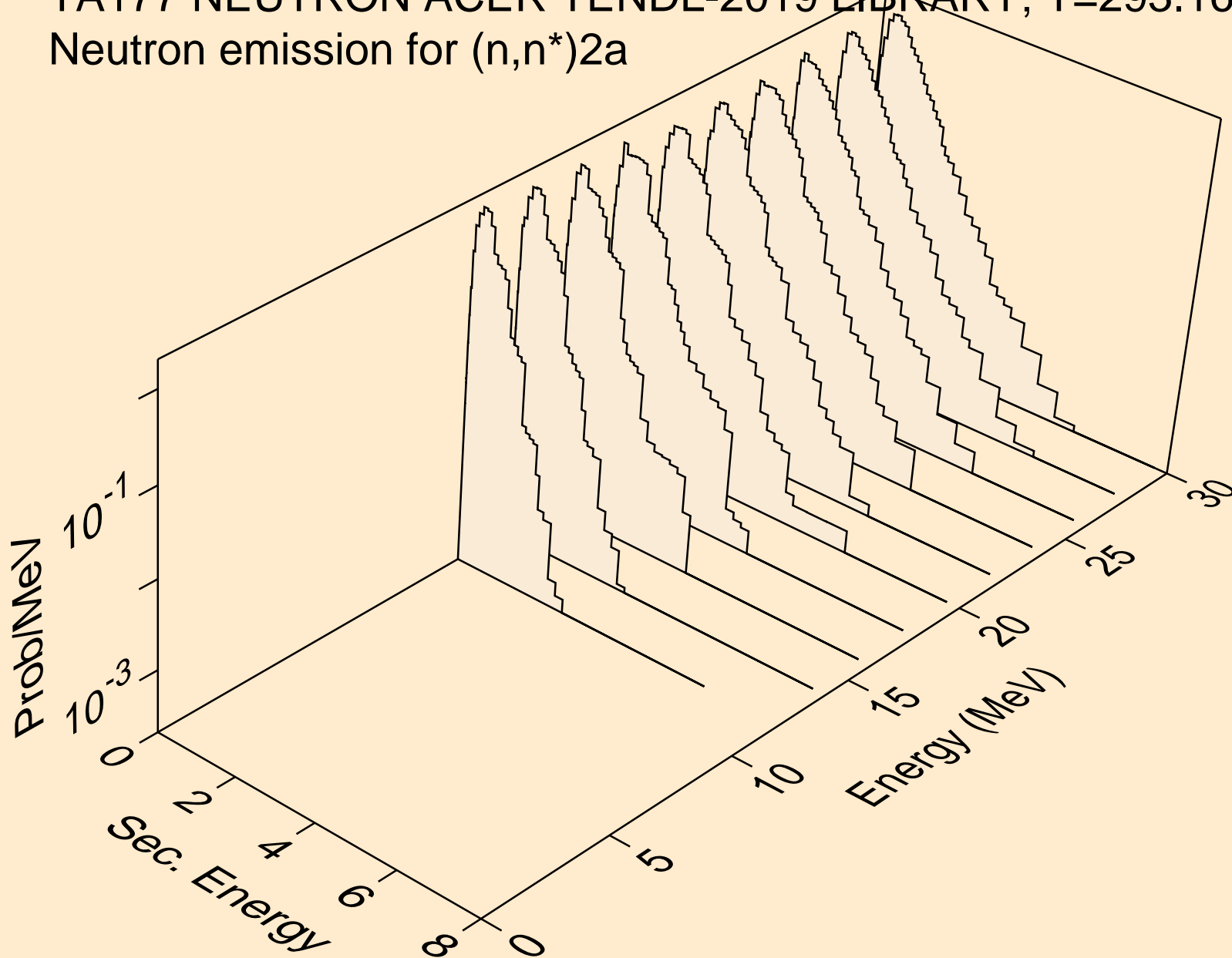
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



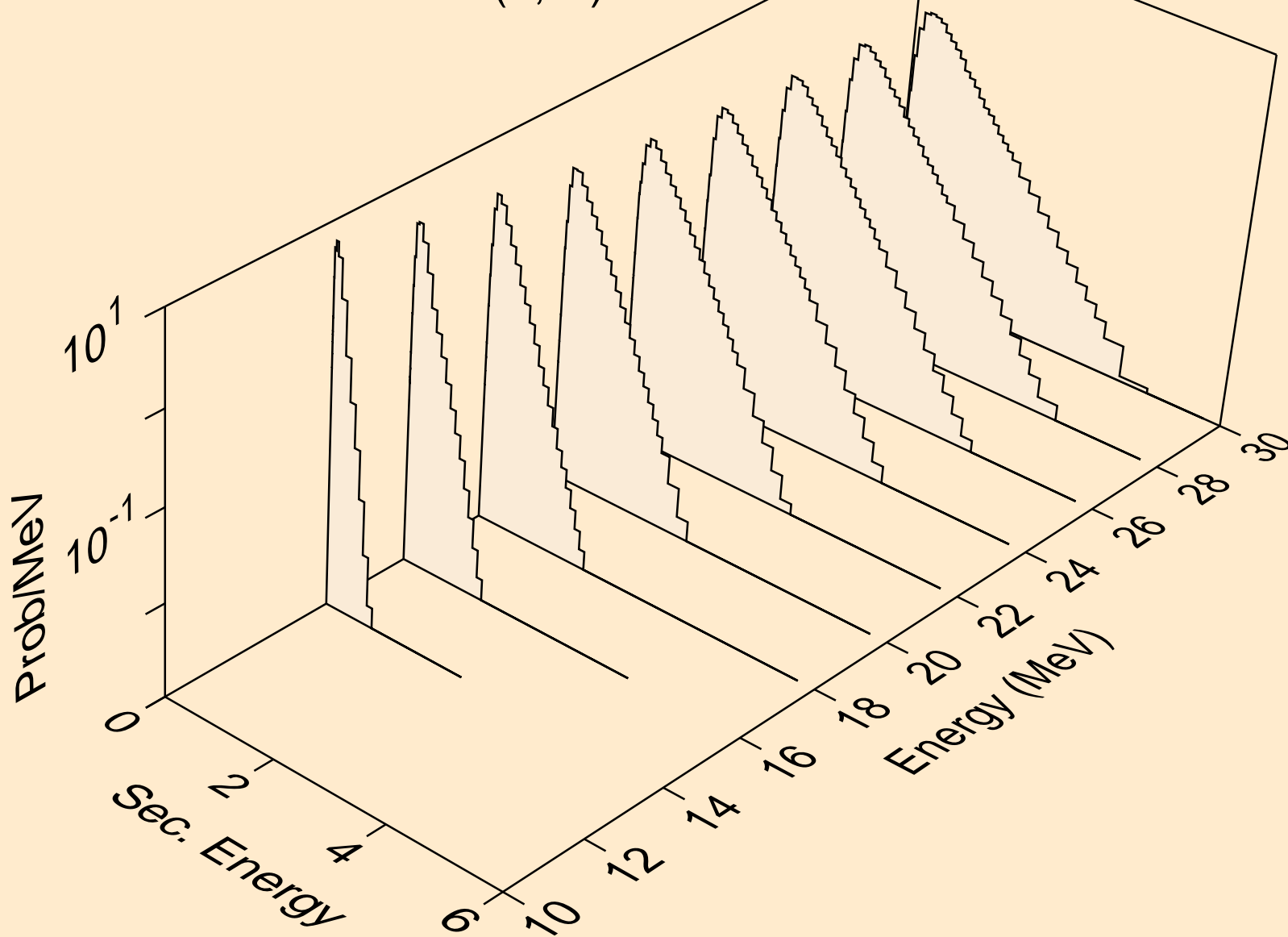
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



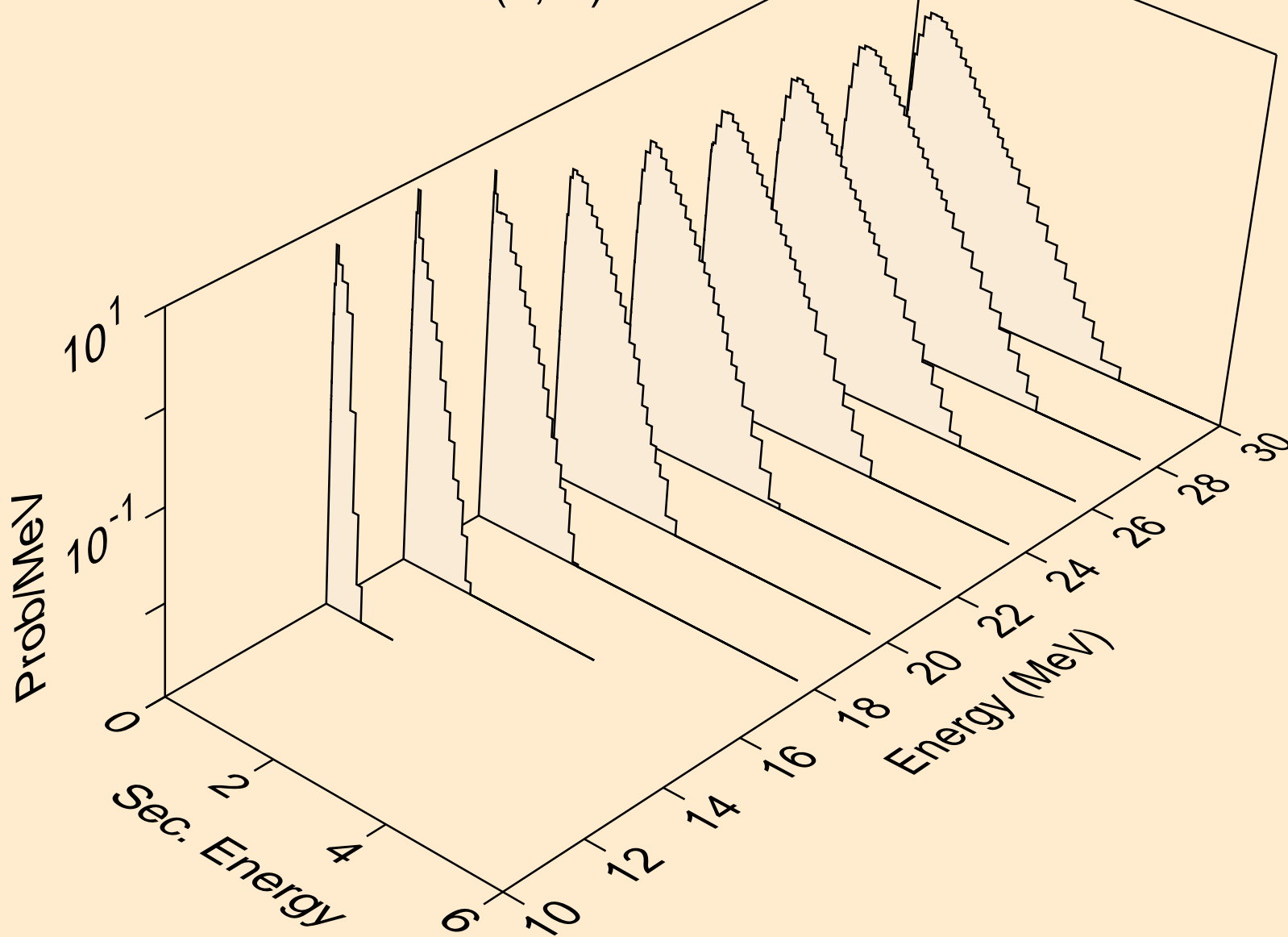
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d

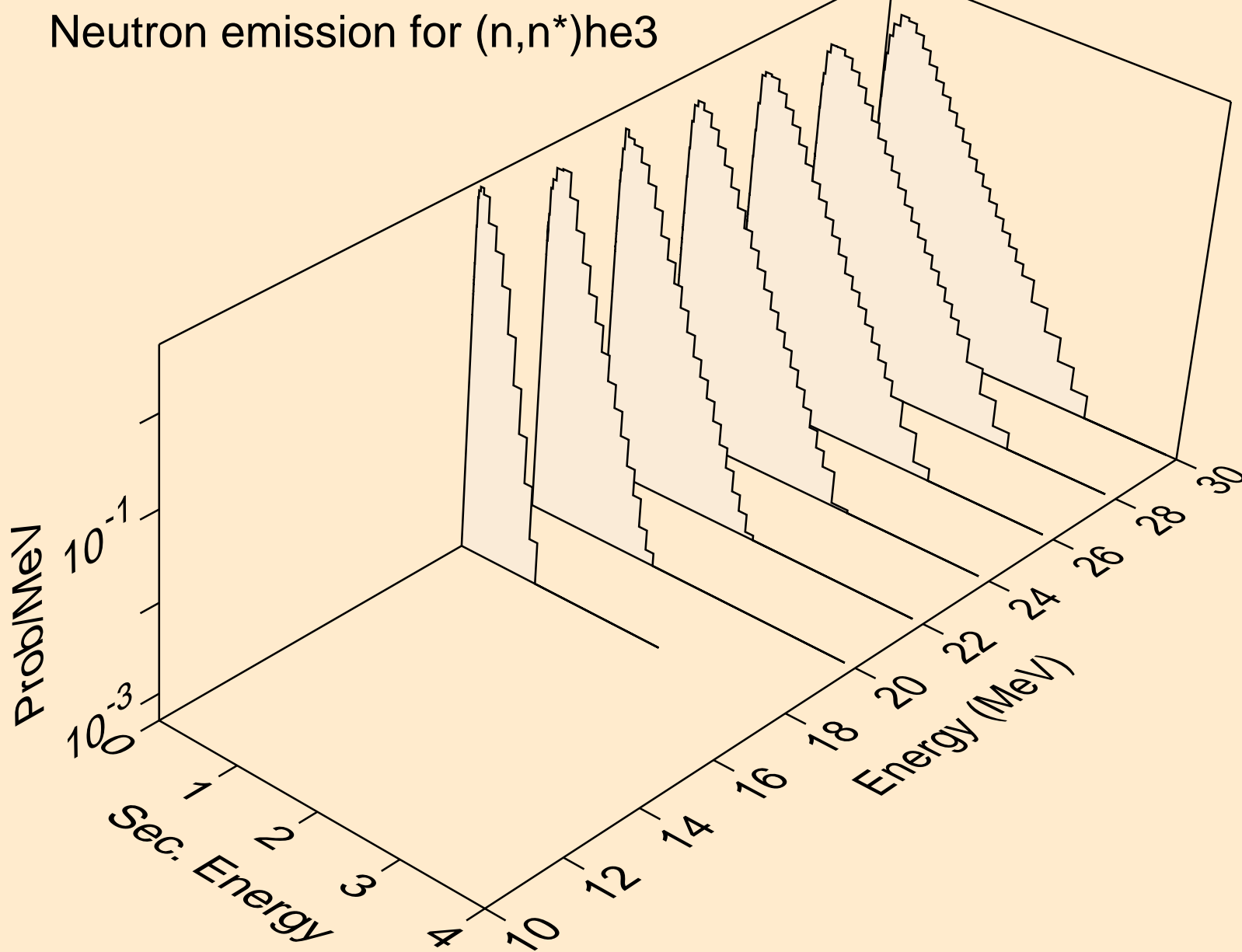


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

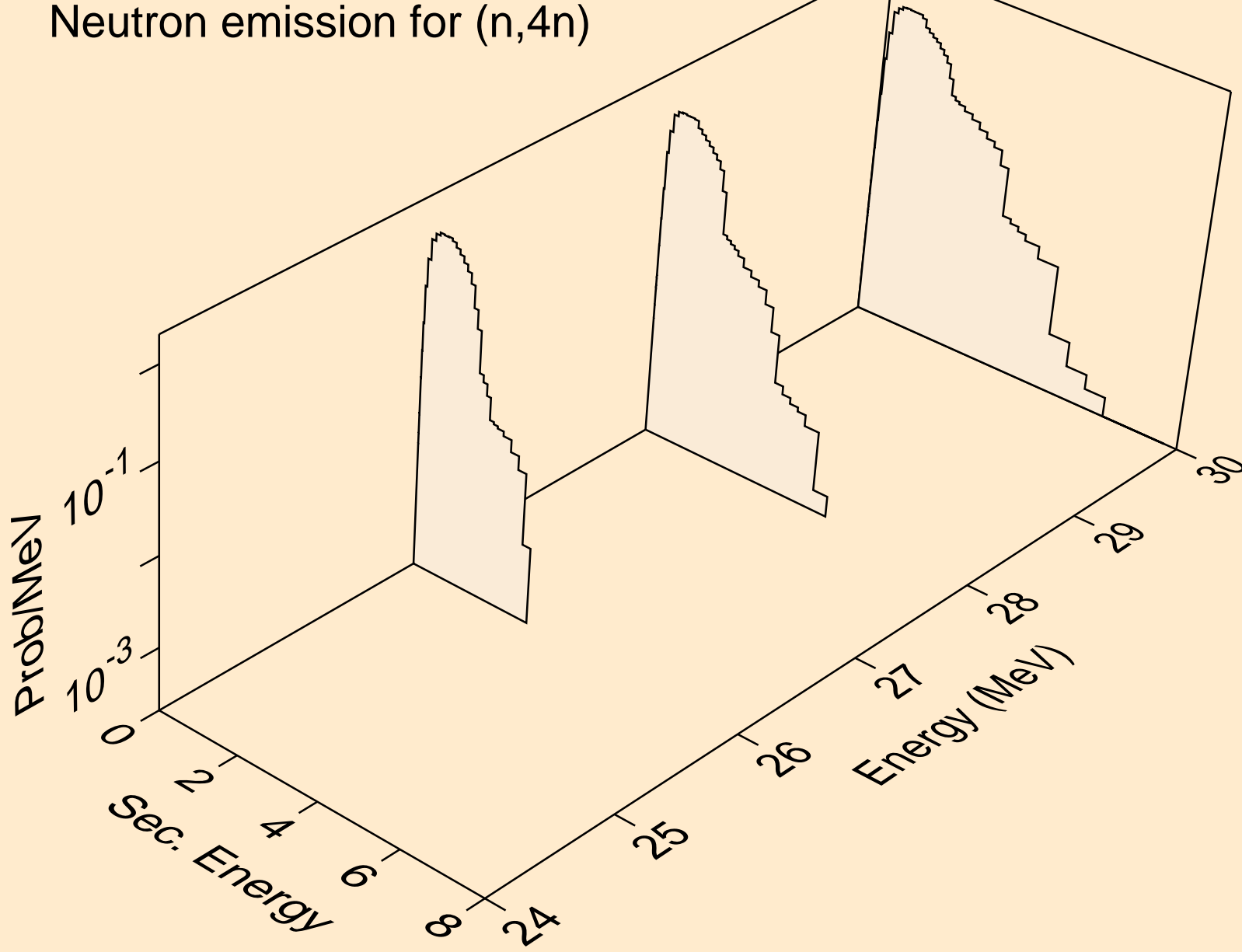




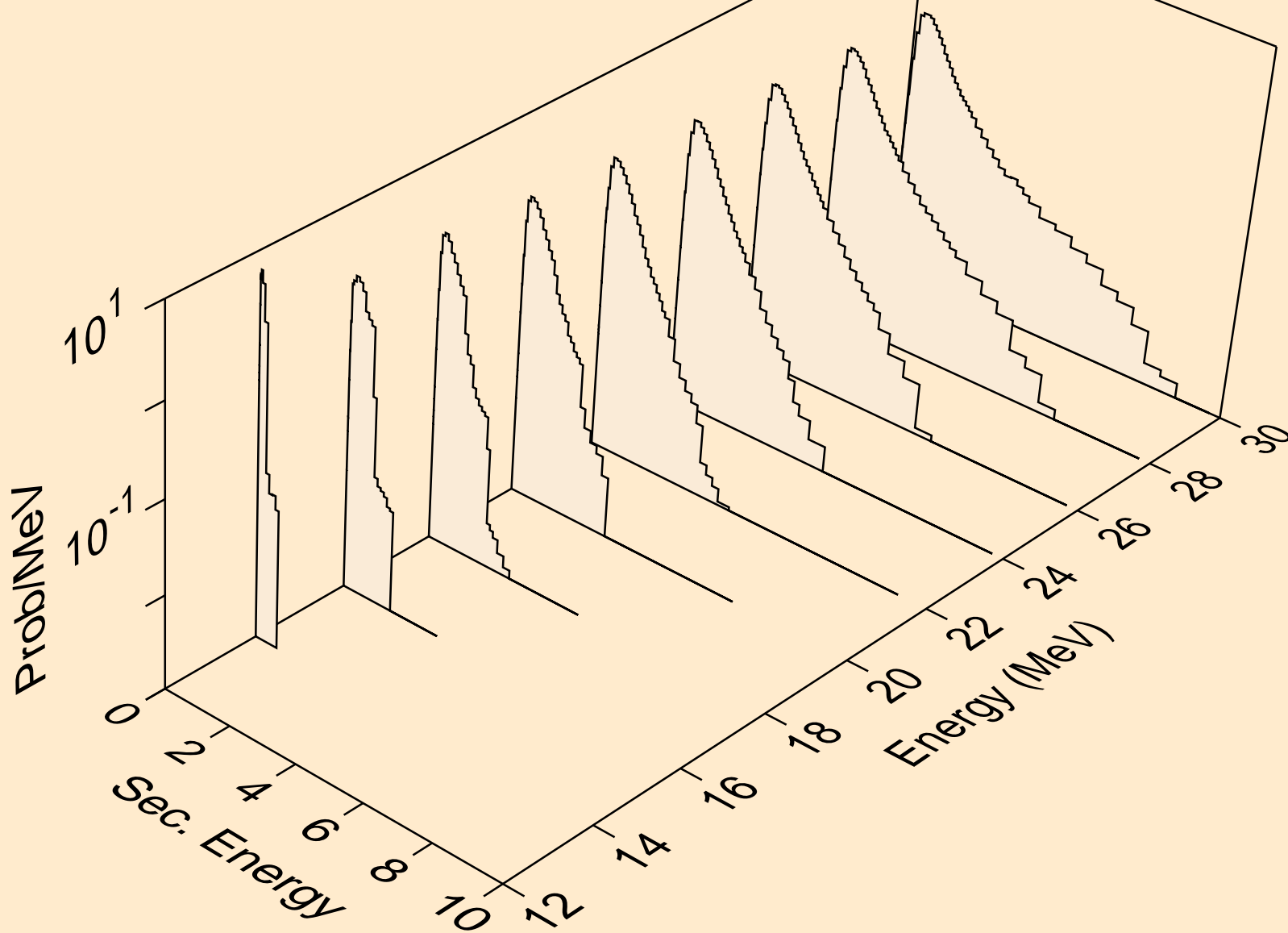
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



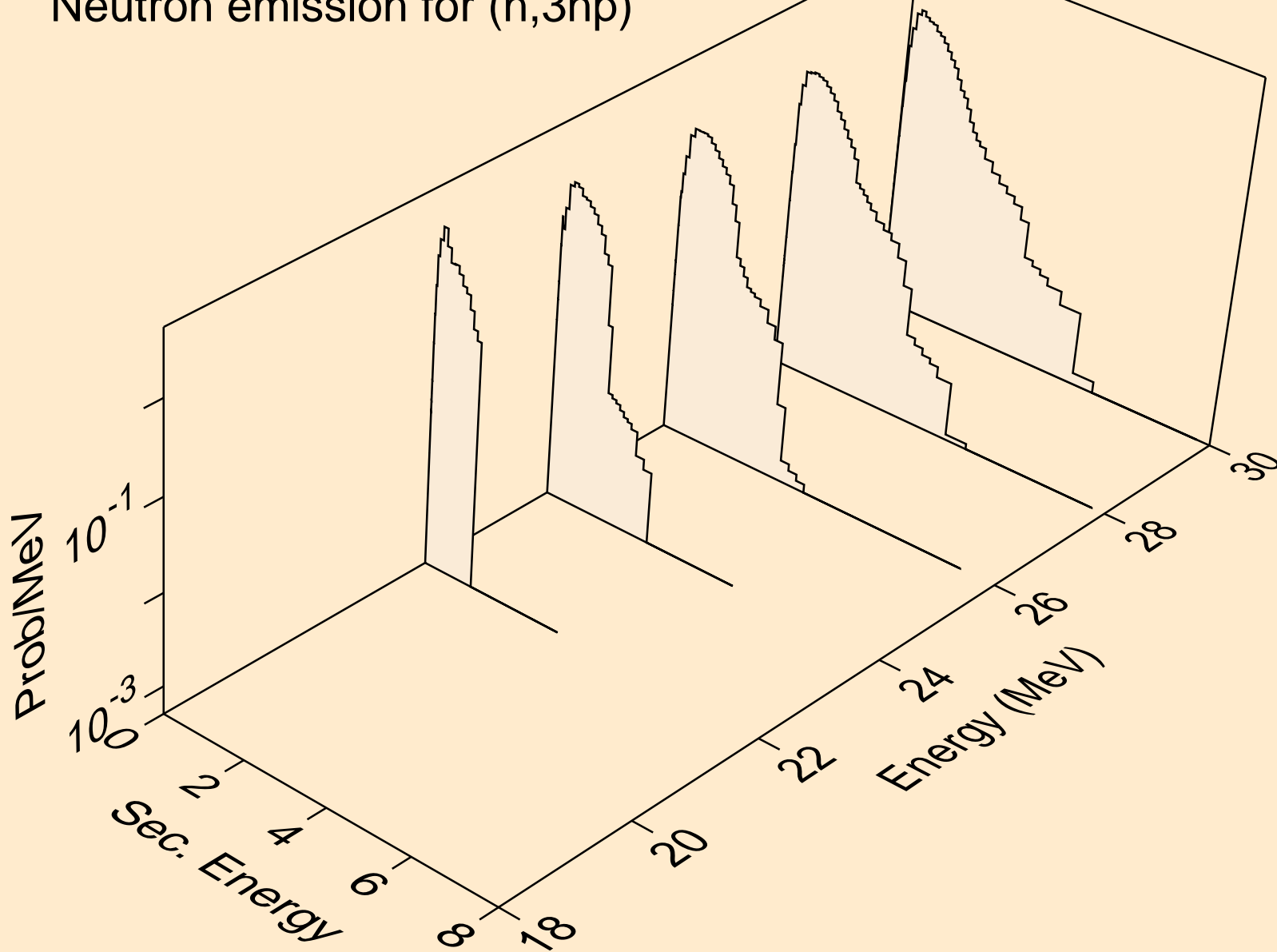
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



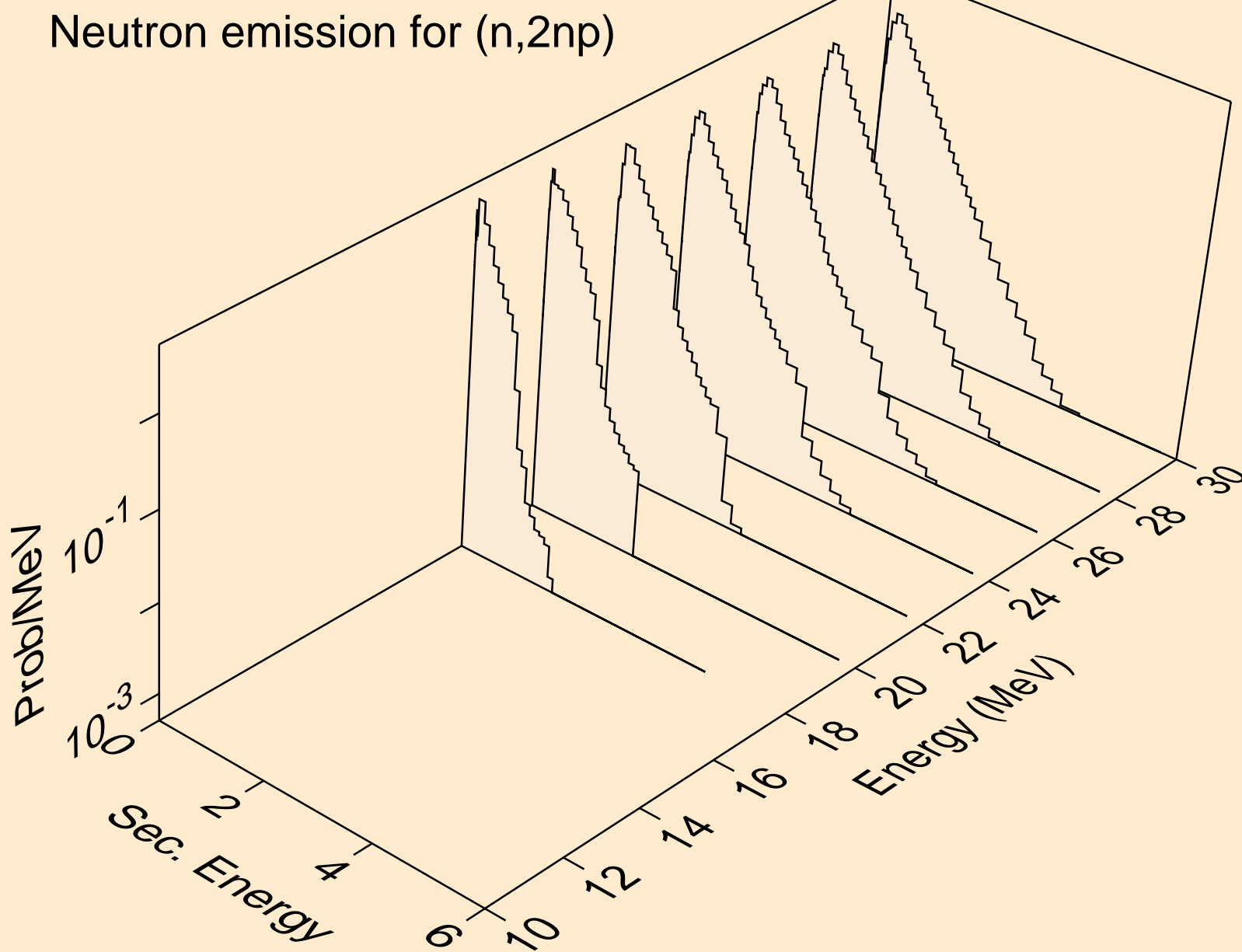
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Neutron emission for (n,2np)



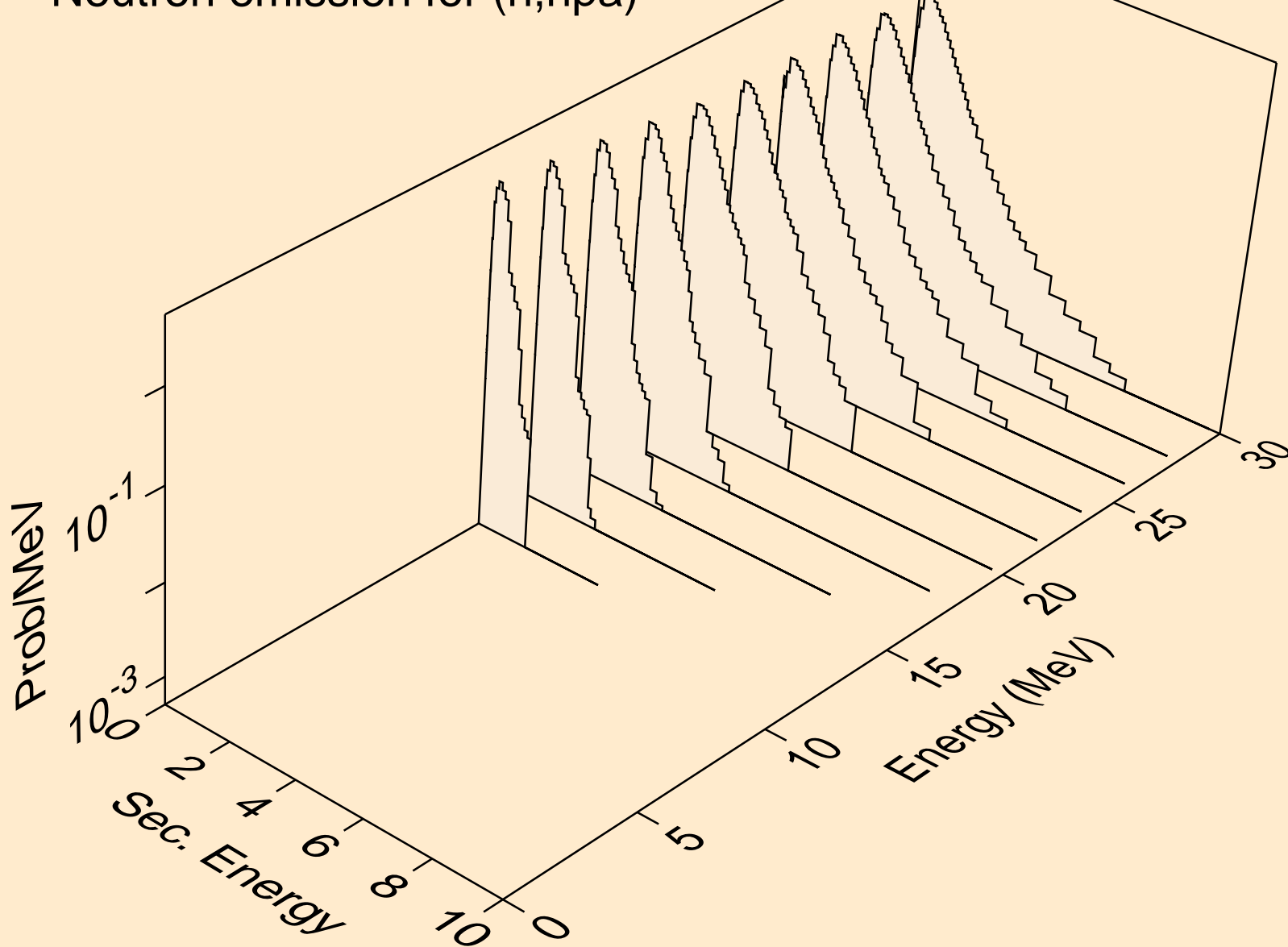
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Neutron emission for (n,3np)



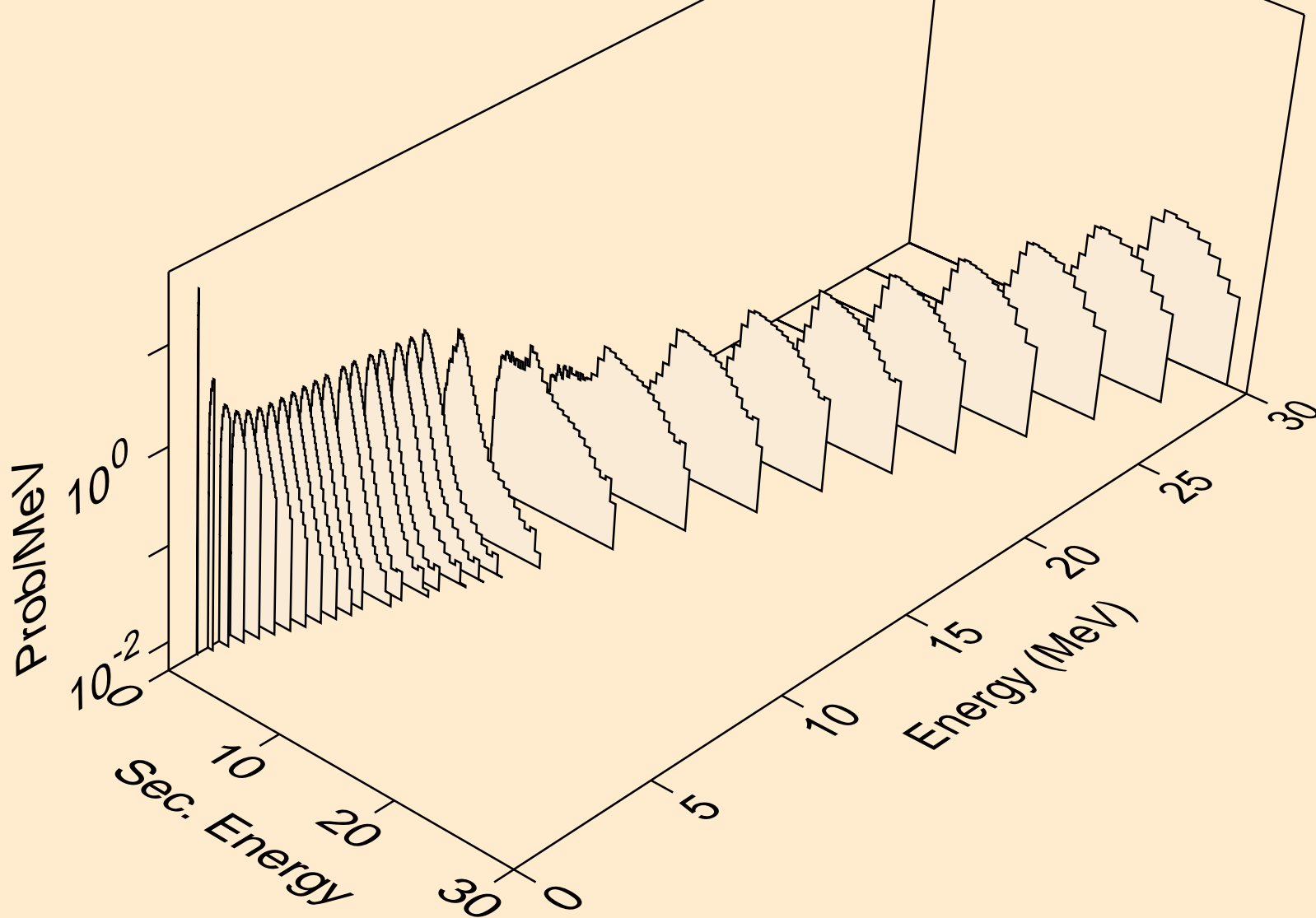
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Neutron emission for (n,2np)



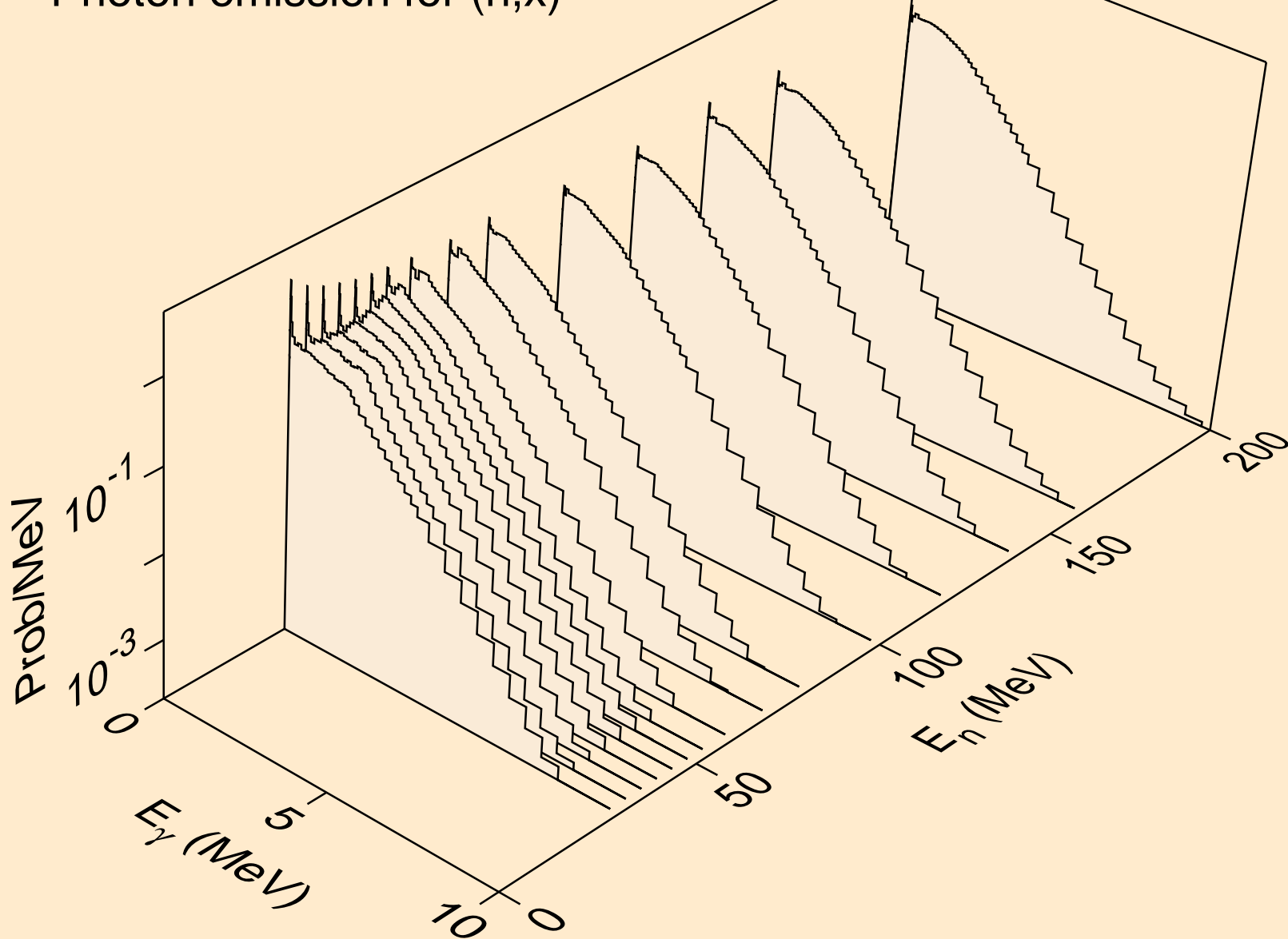
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)

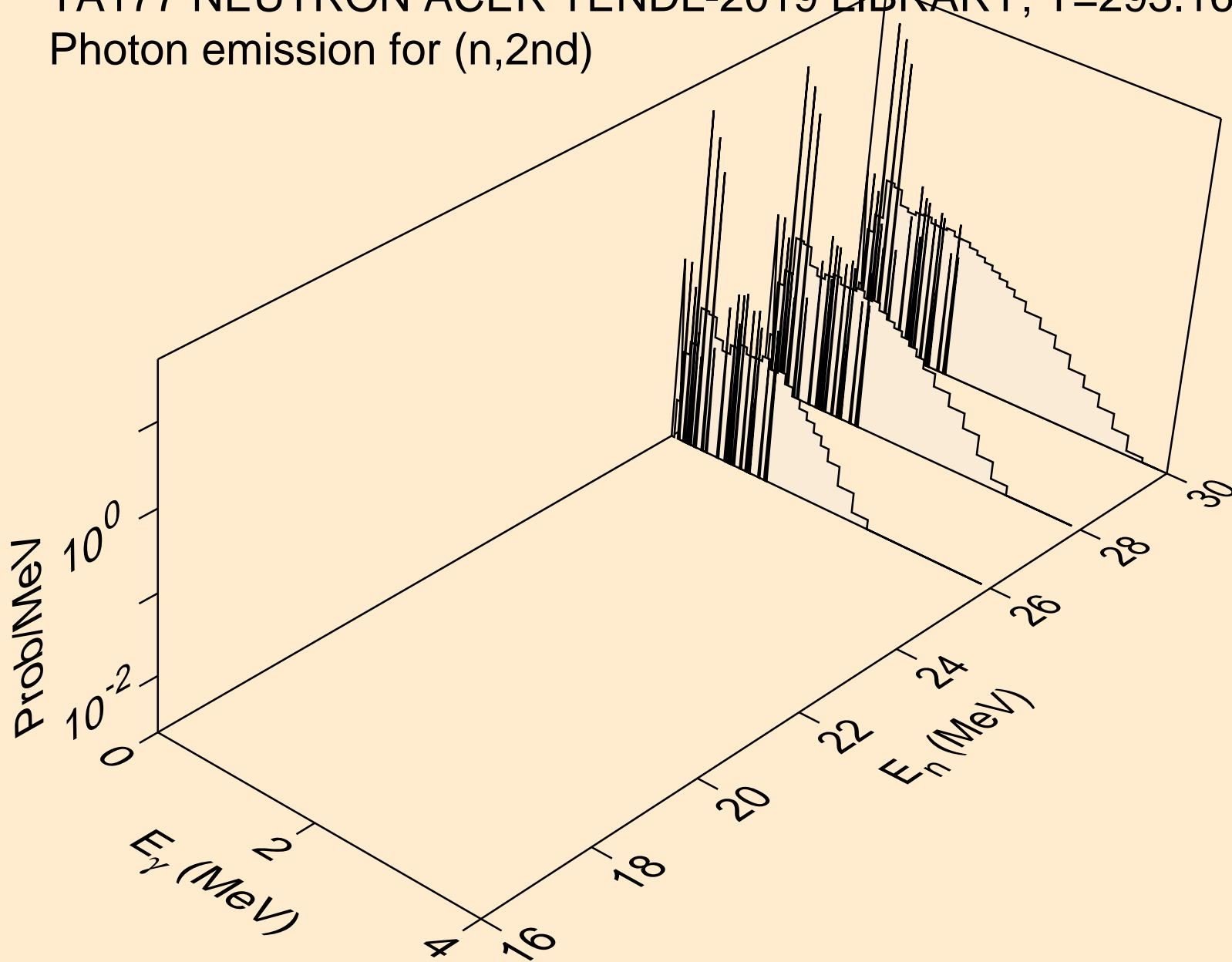


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

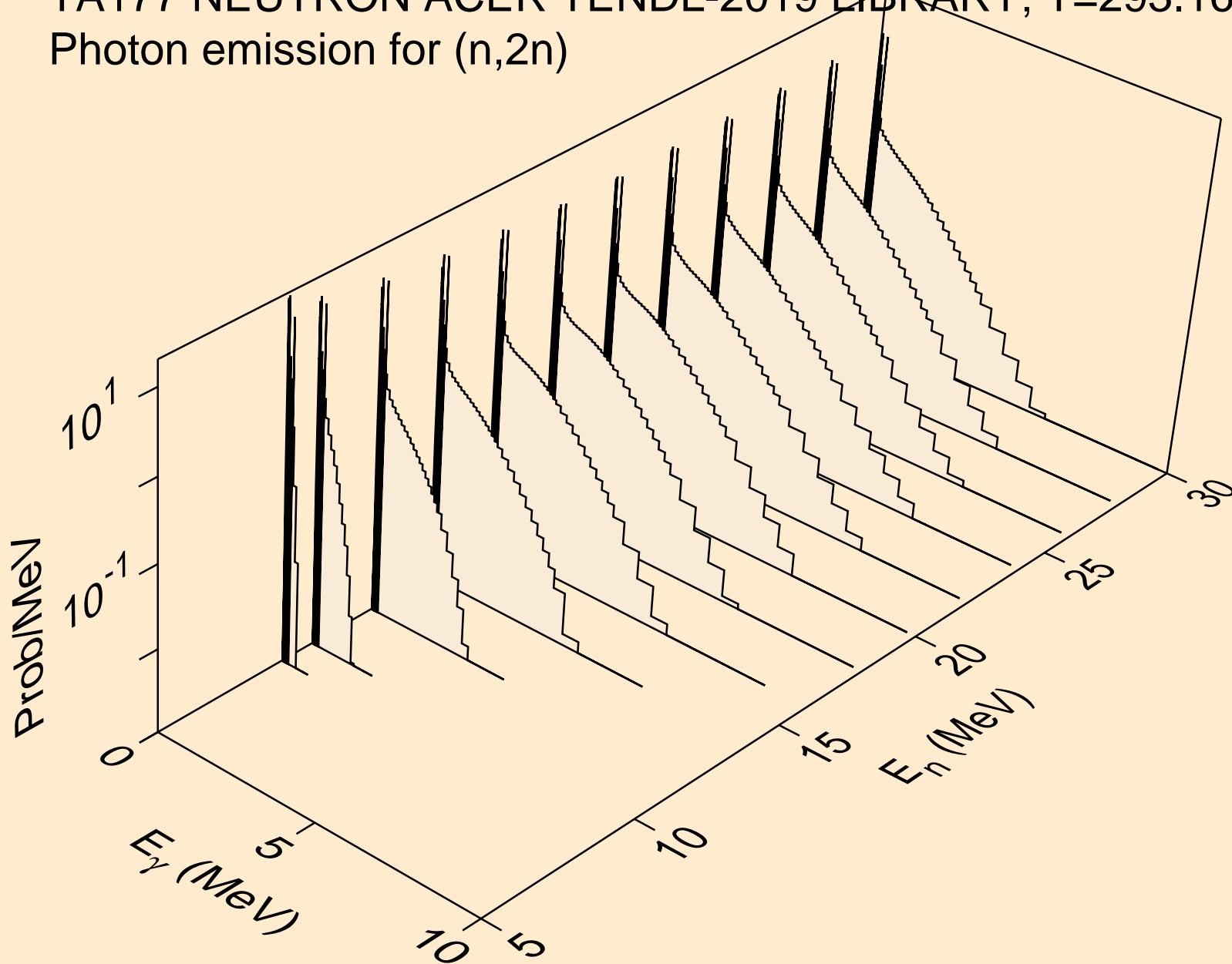




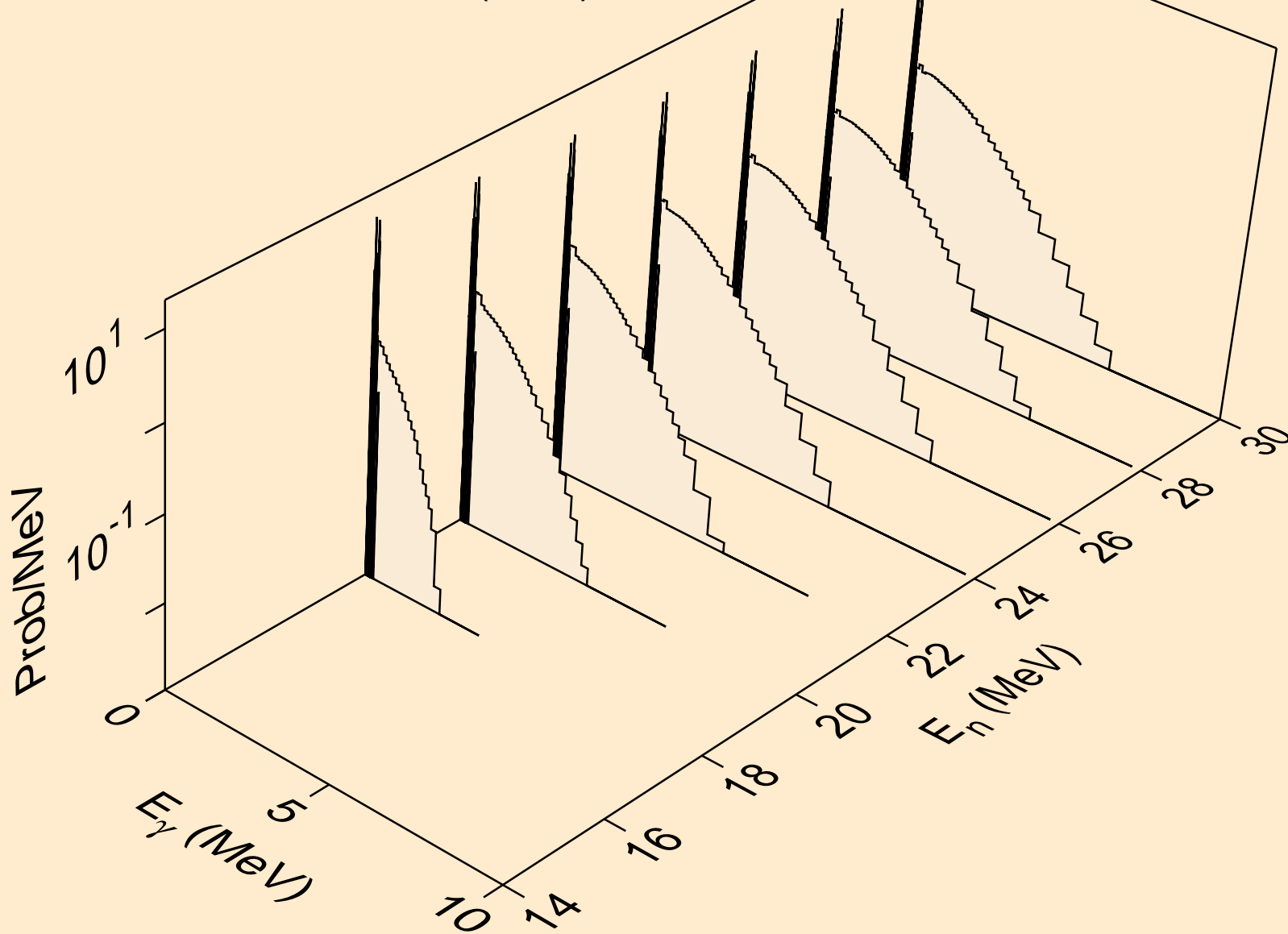
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Photon emission for (n,2nd)



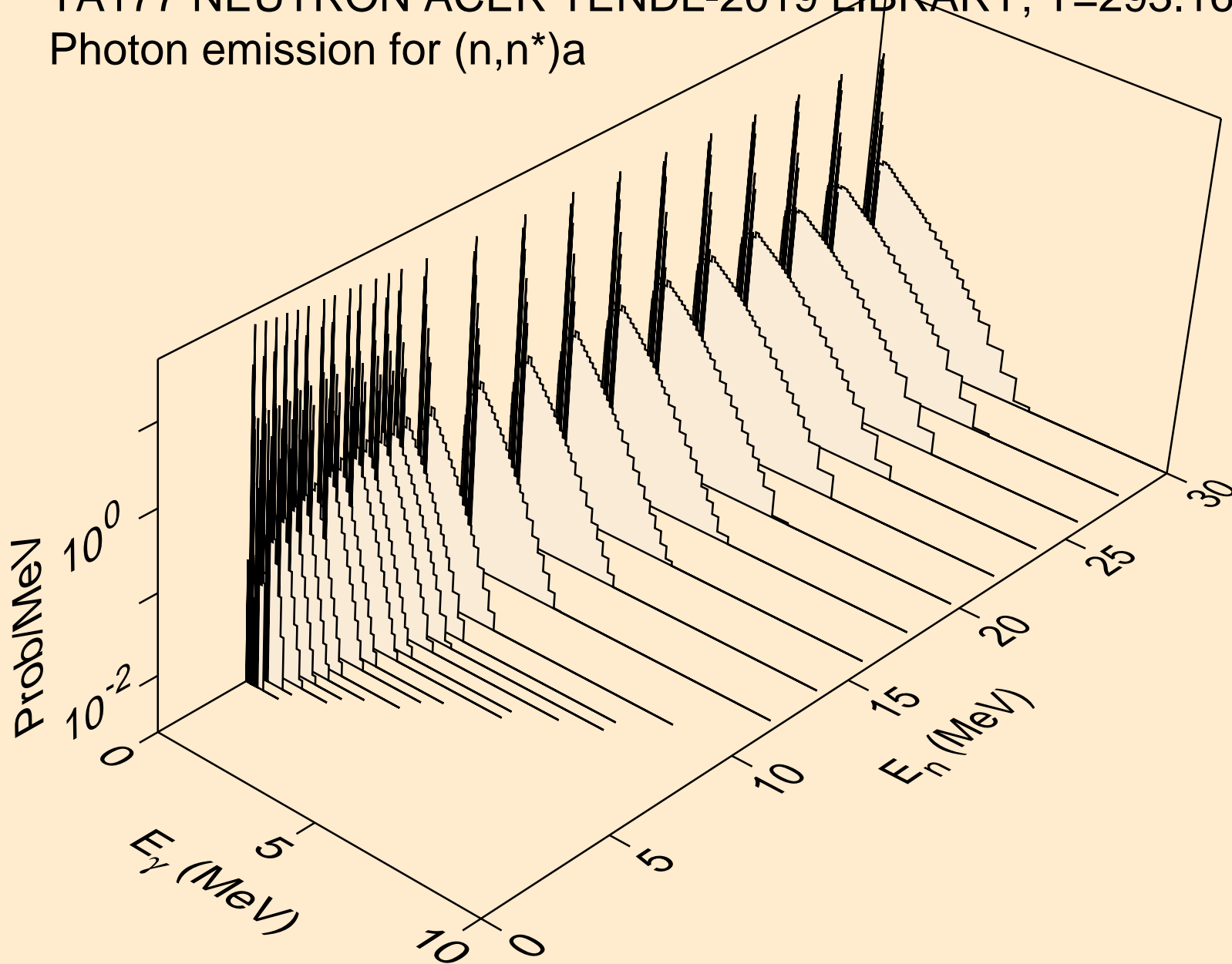
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Photon emission for (n,2n)



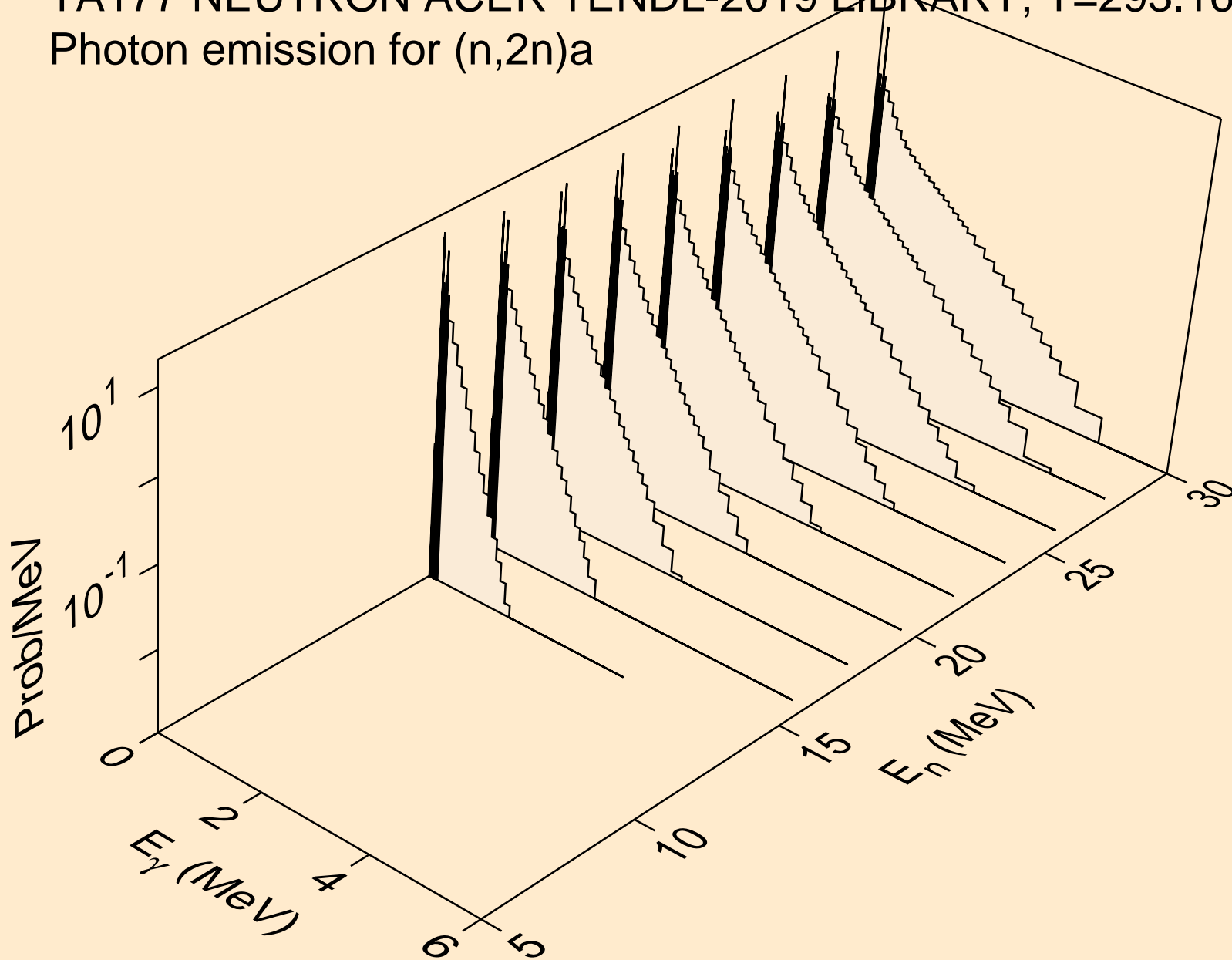
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Photon emission for (n,3n)



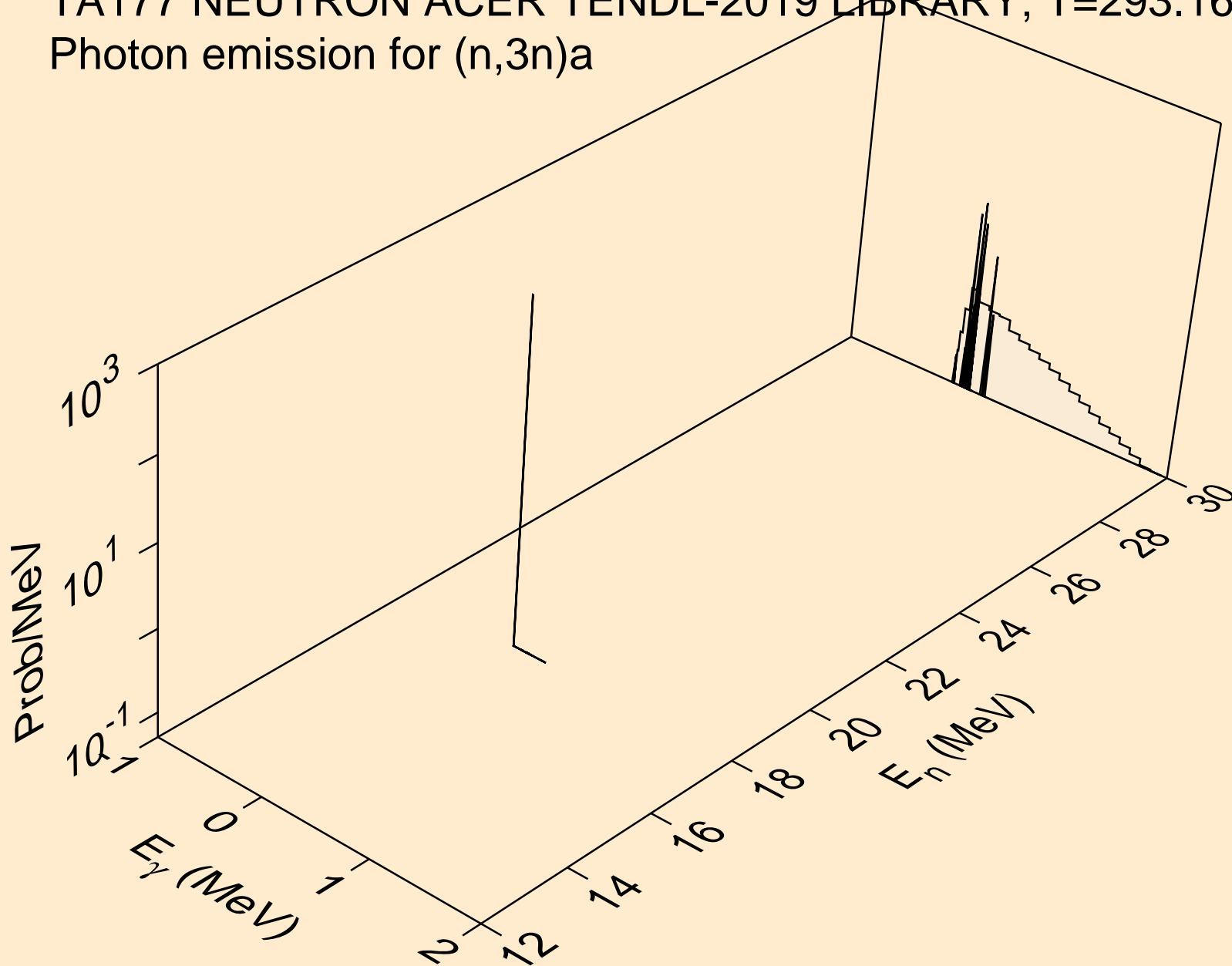
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Photon emission for (n,n\*)a



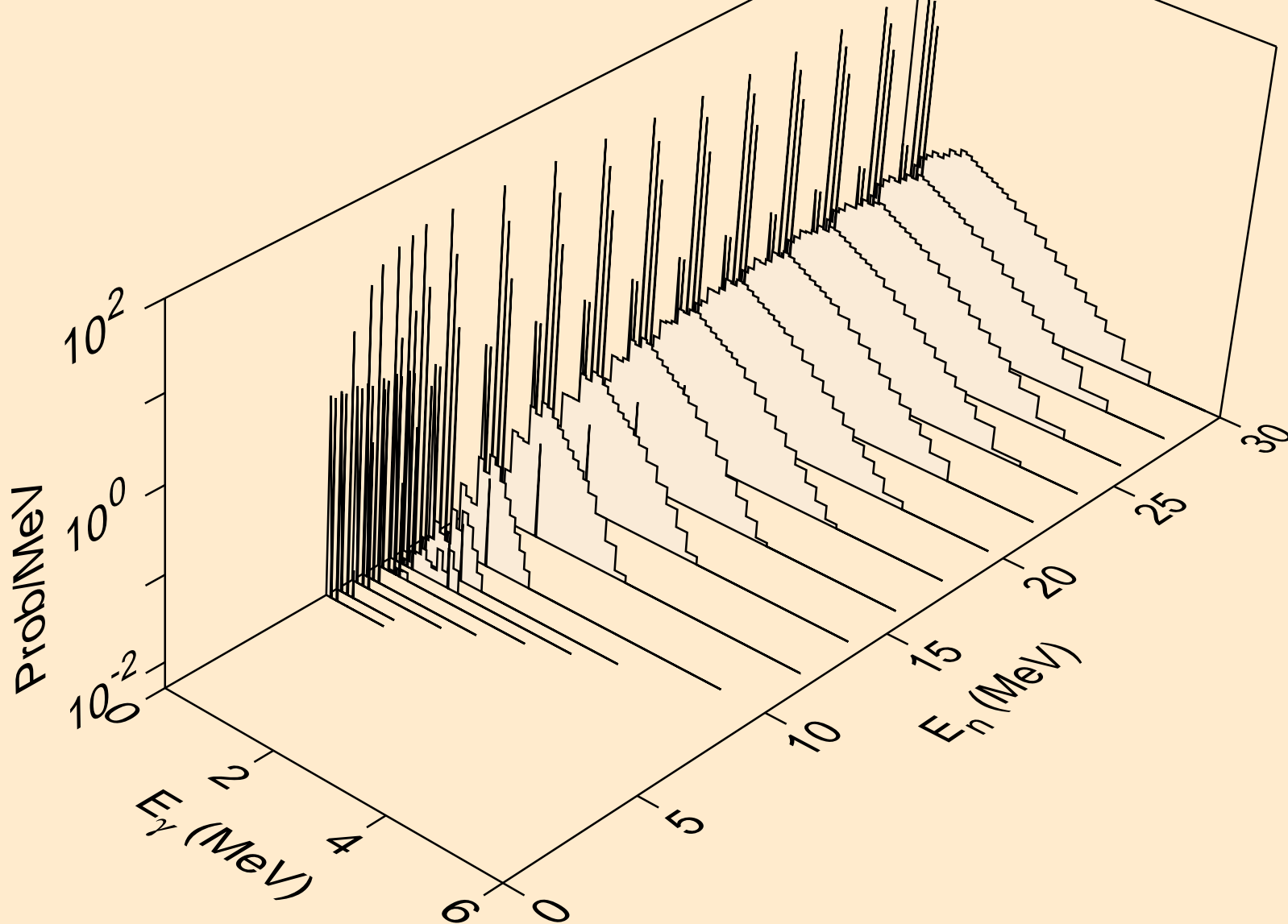
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Photon emission for (n,2n)a



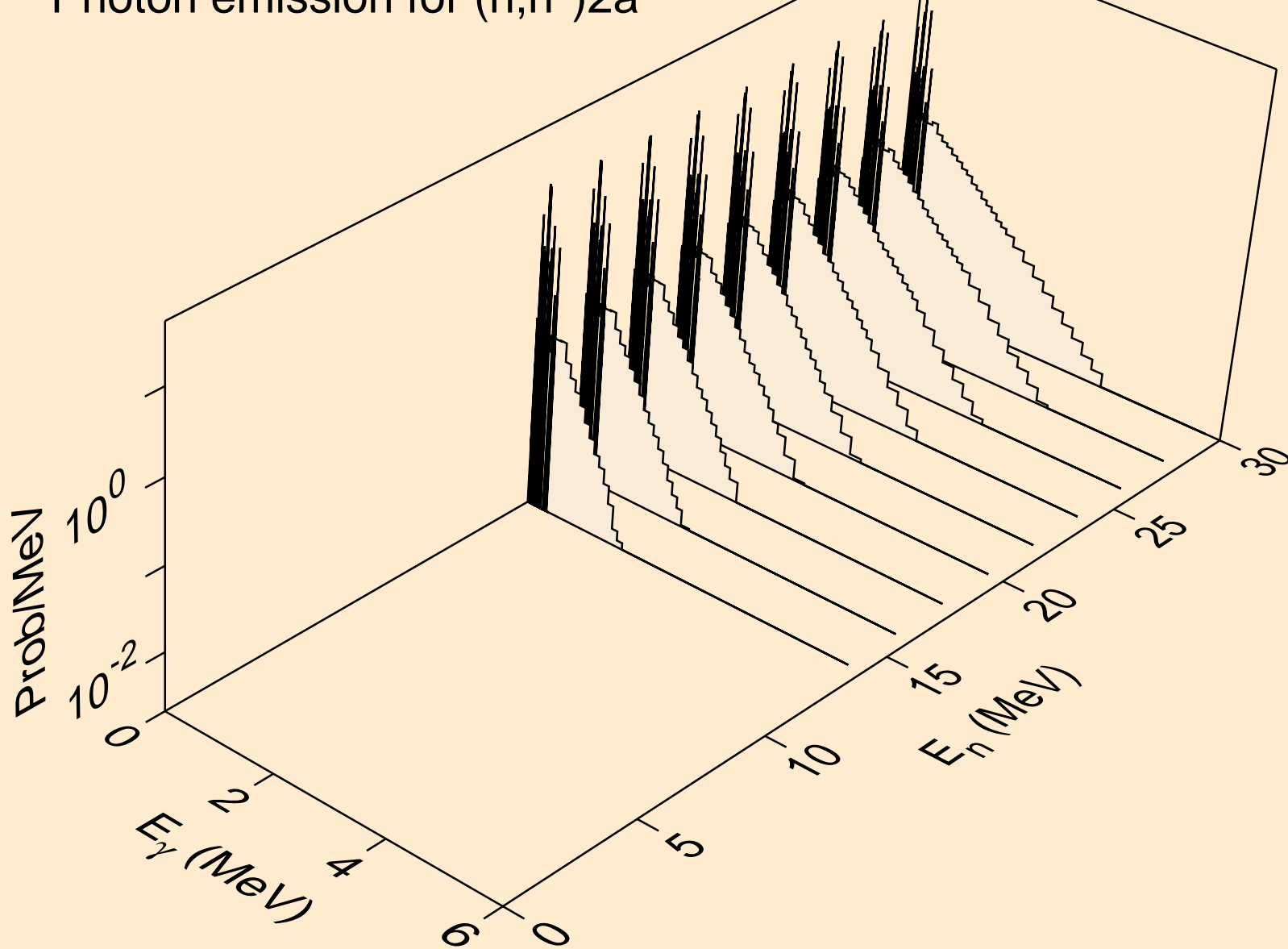
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Photon emission for (n,3n)a



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p

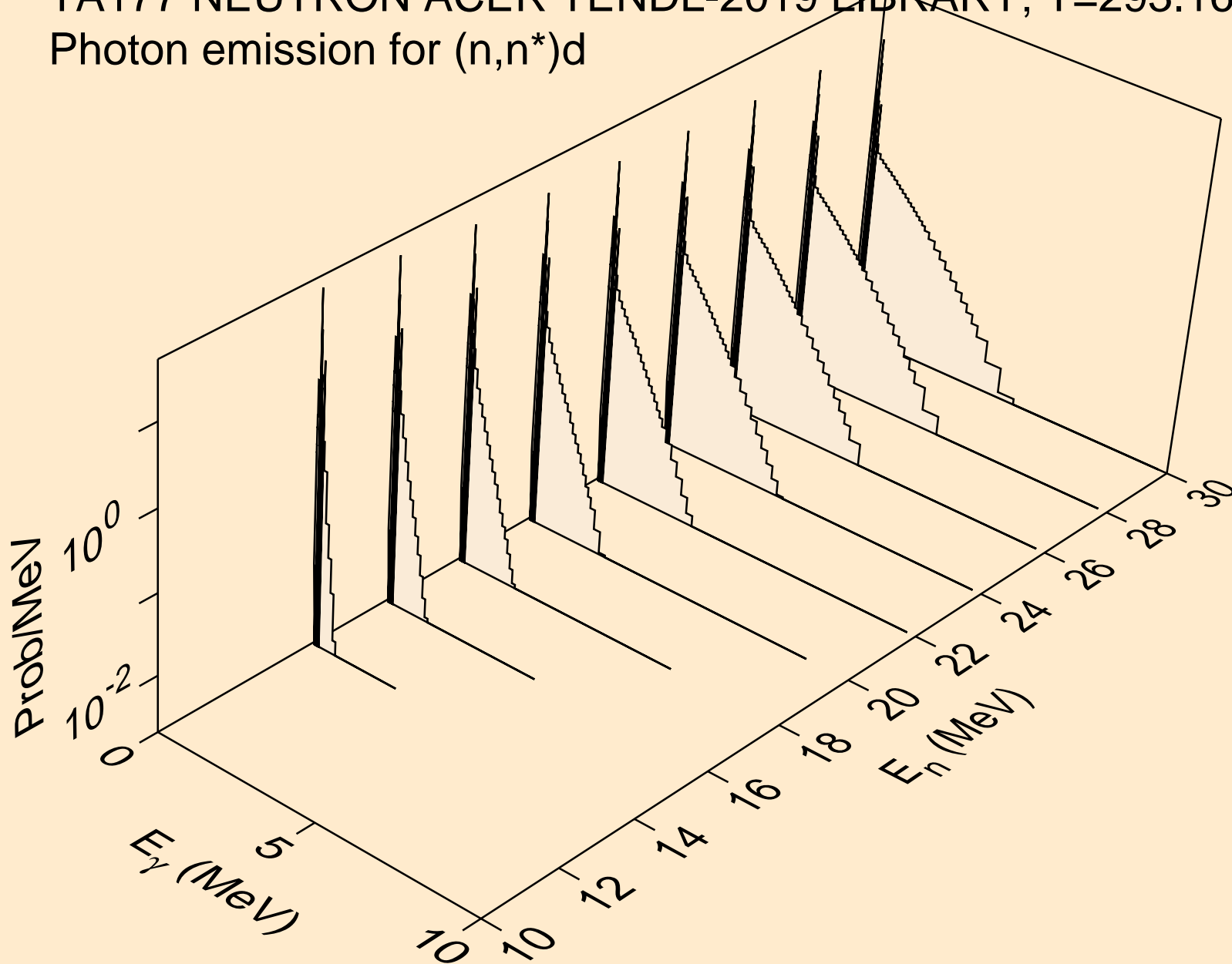


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a

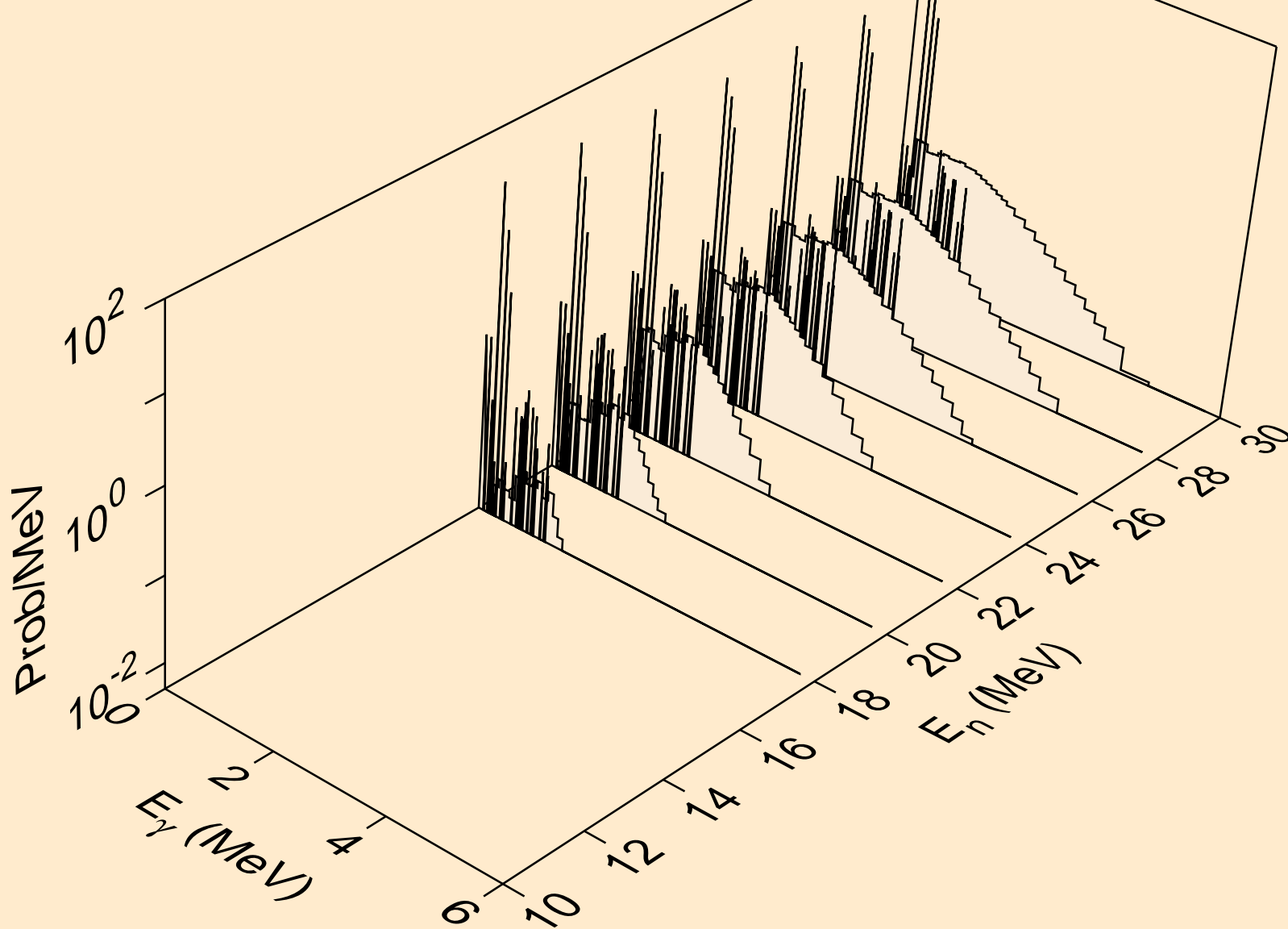




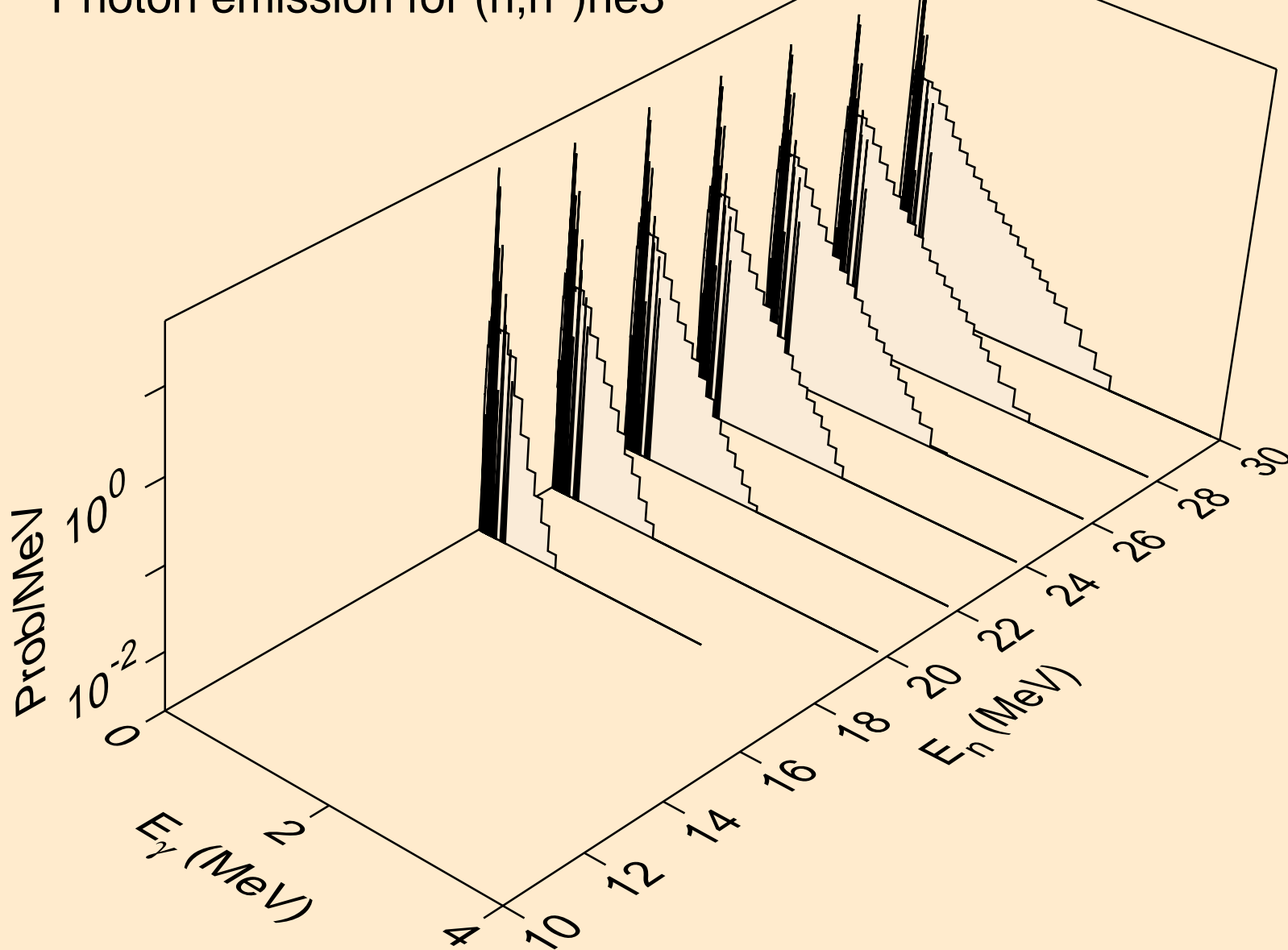
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Photon emission for (n,n\*)d



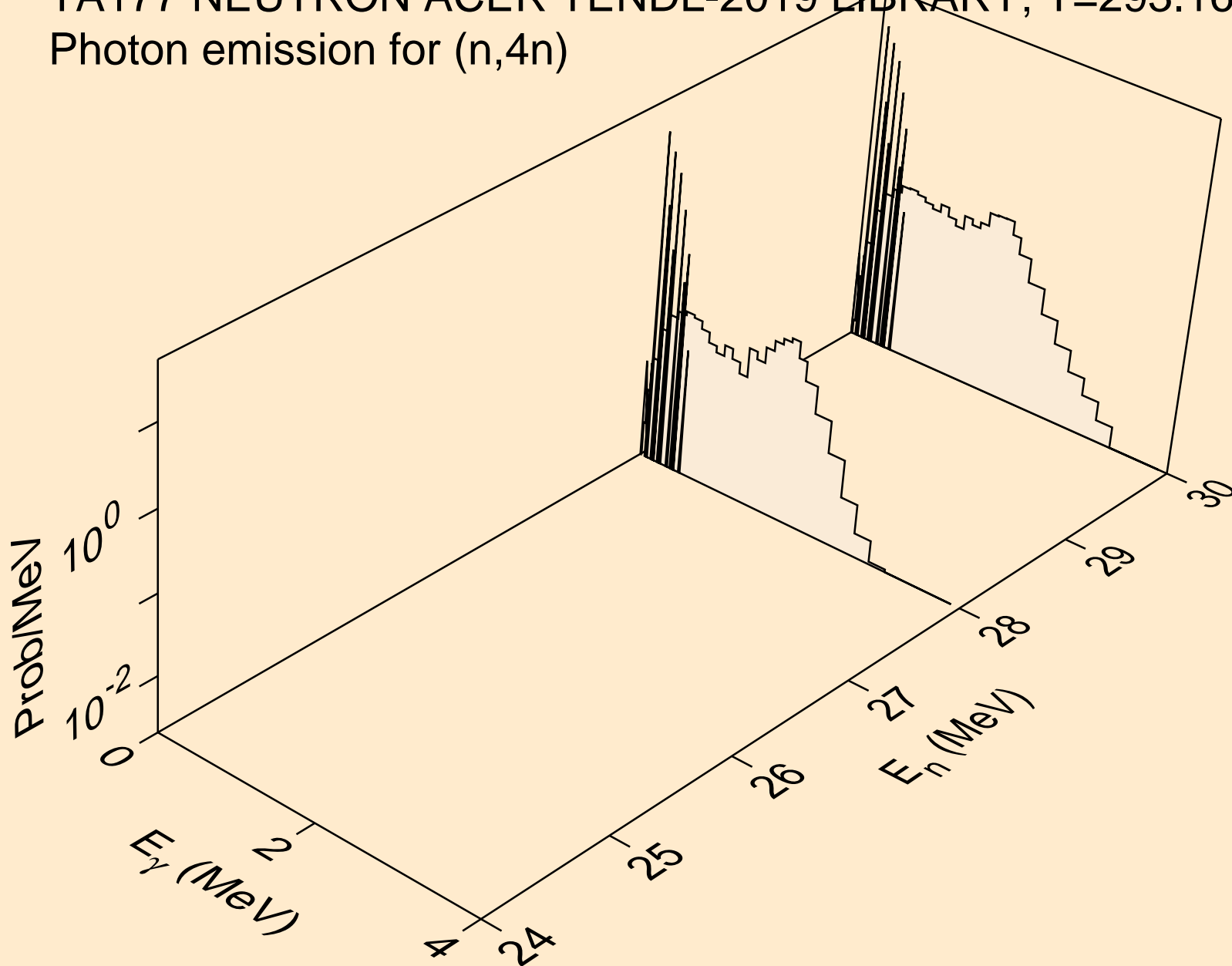
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Photon emission for (n,n\*)t



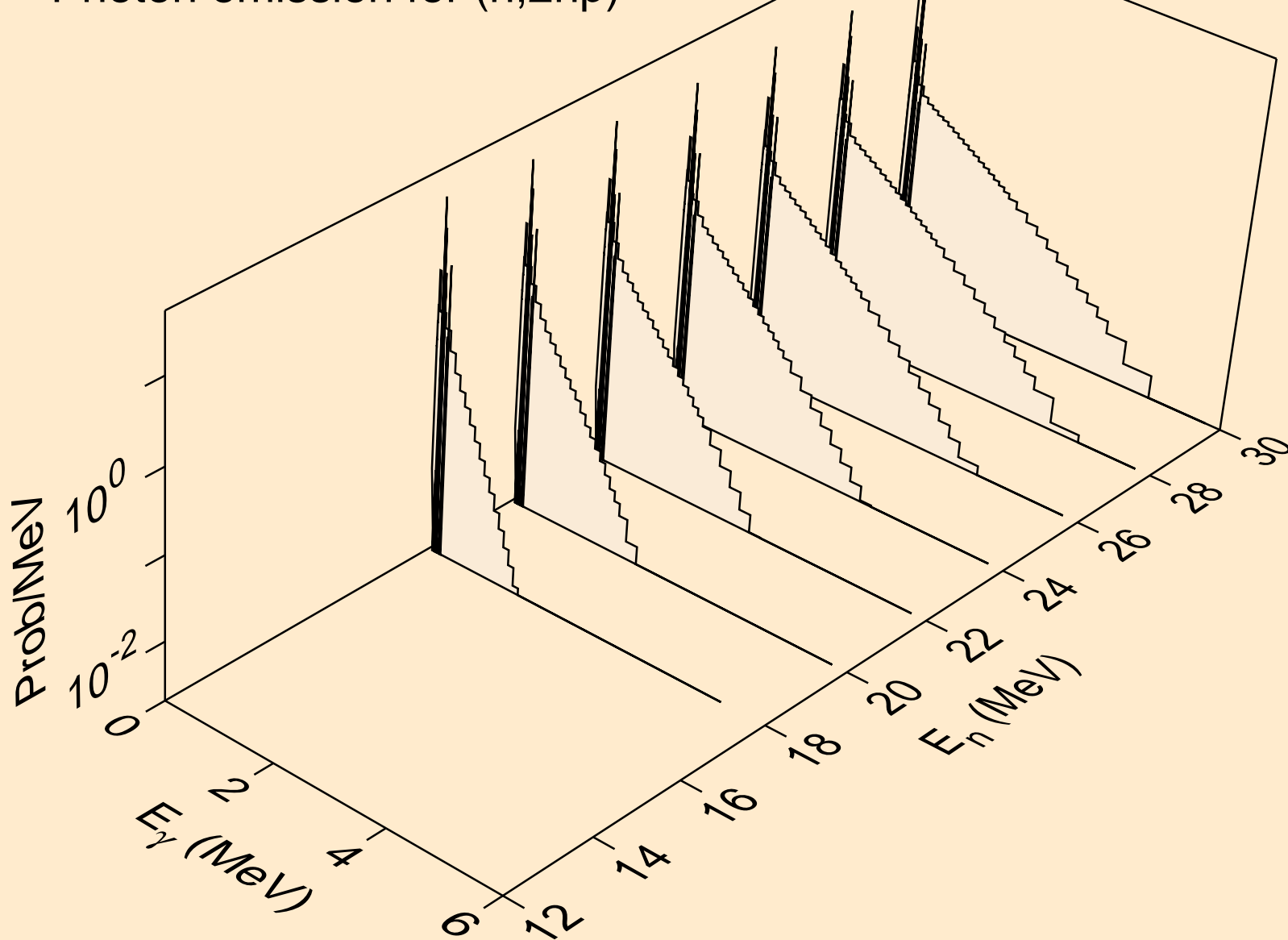
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Photon emission for (n,n\*)he3



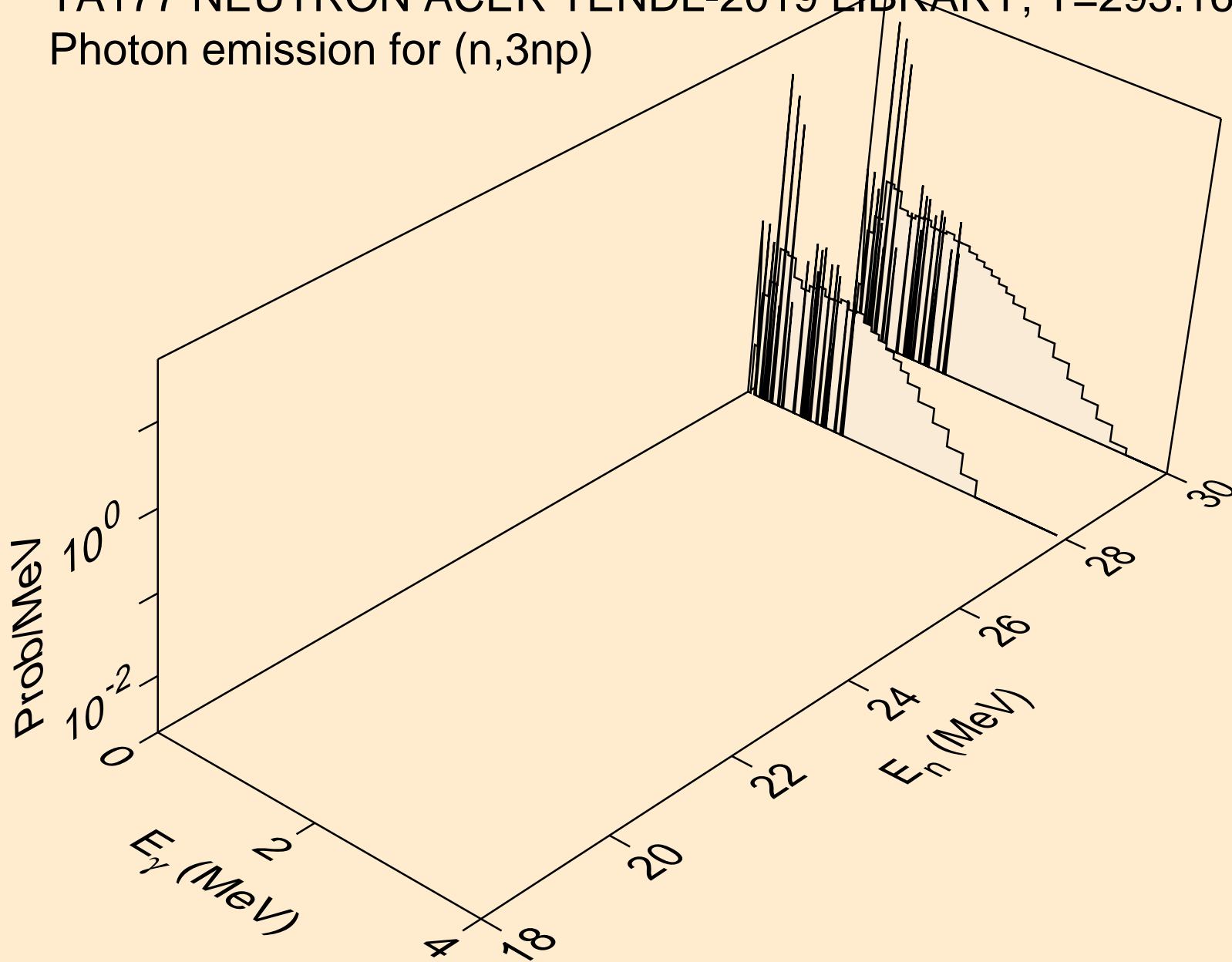
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Photon emission for (n,4n)



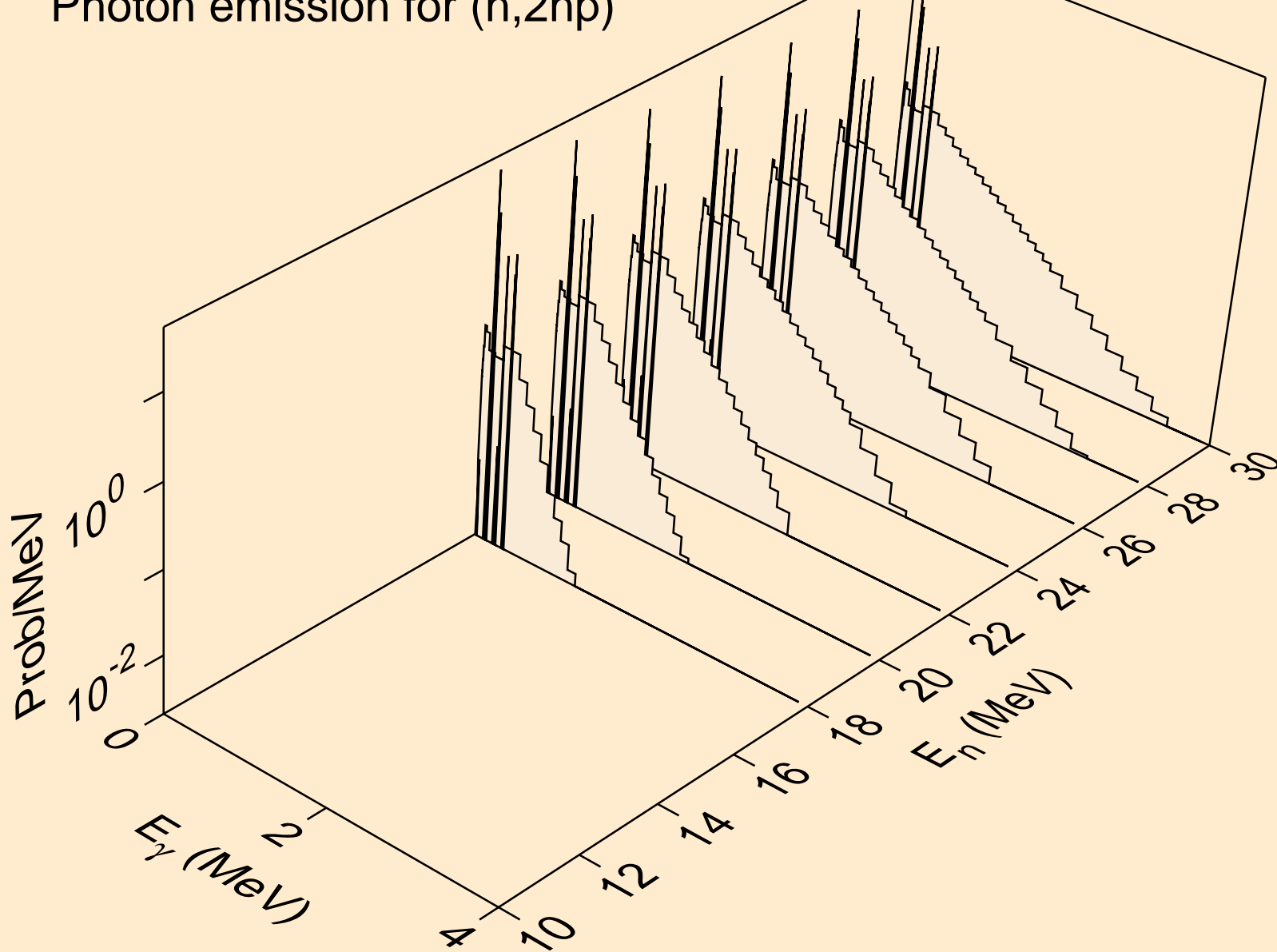
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Photon emission for (n,2np)



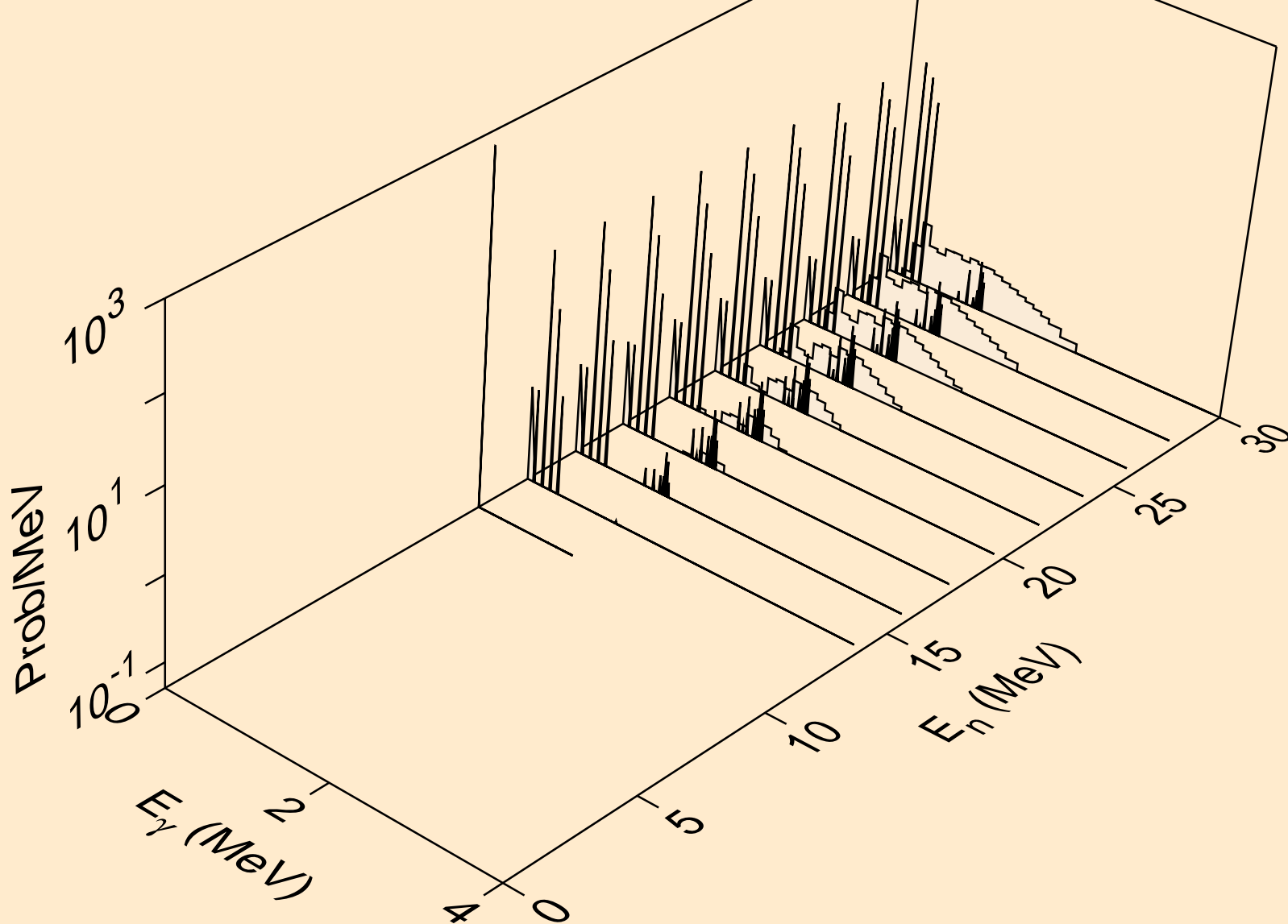
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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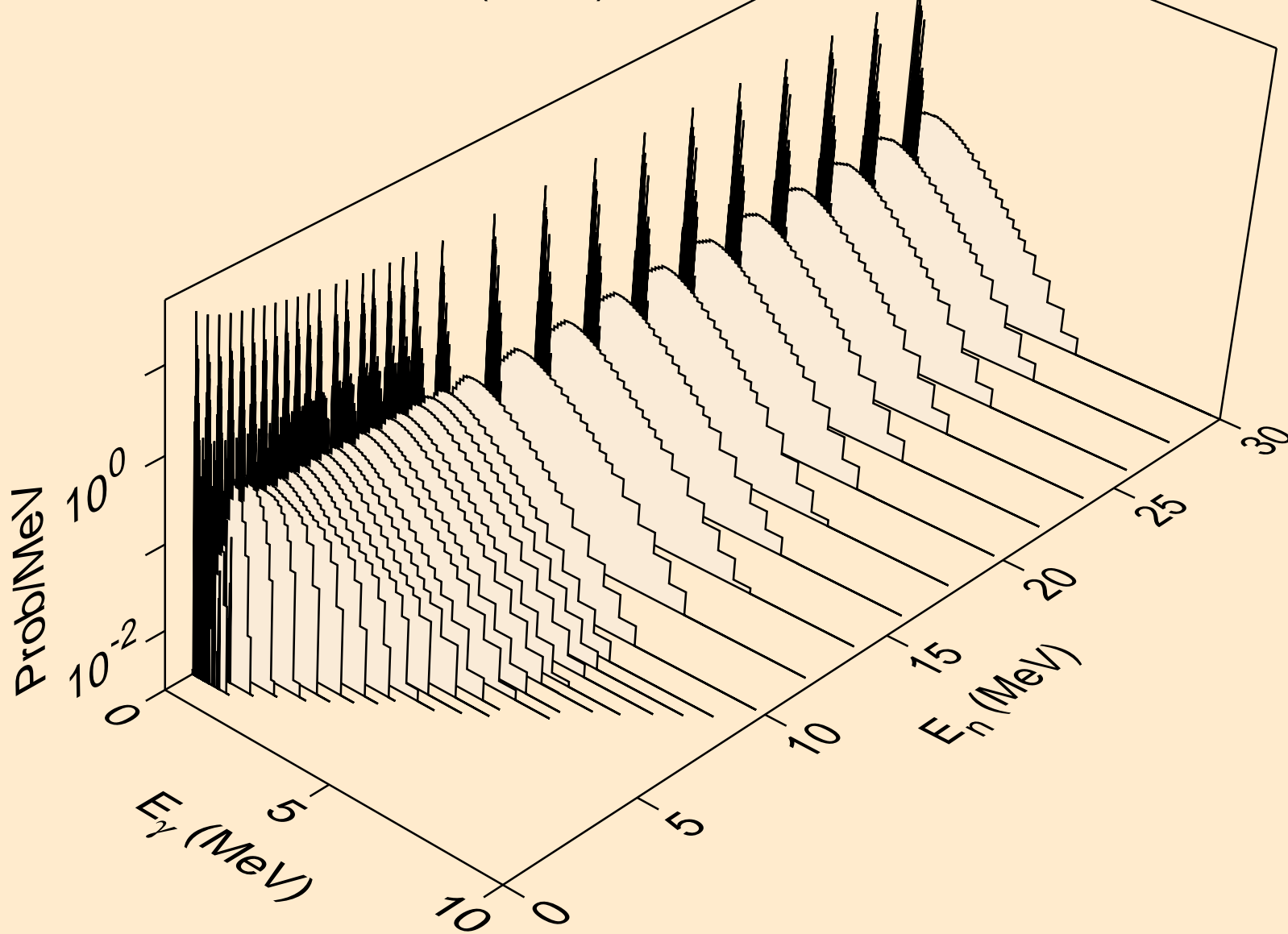


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Photon emission for (n,npa)

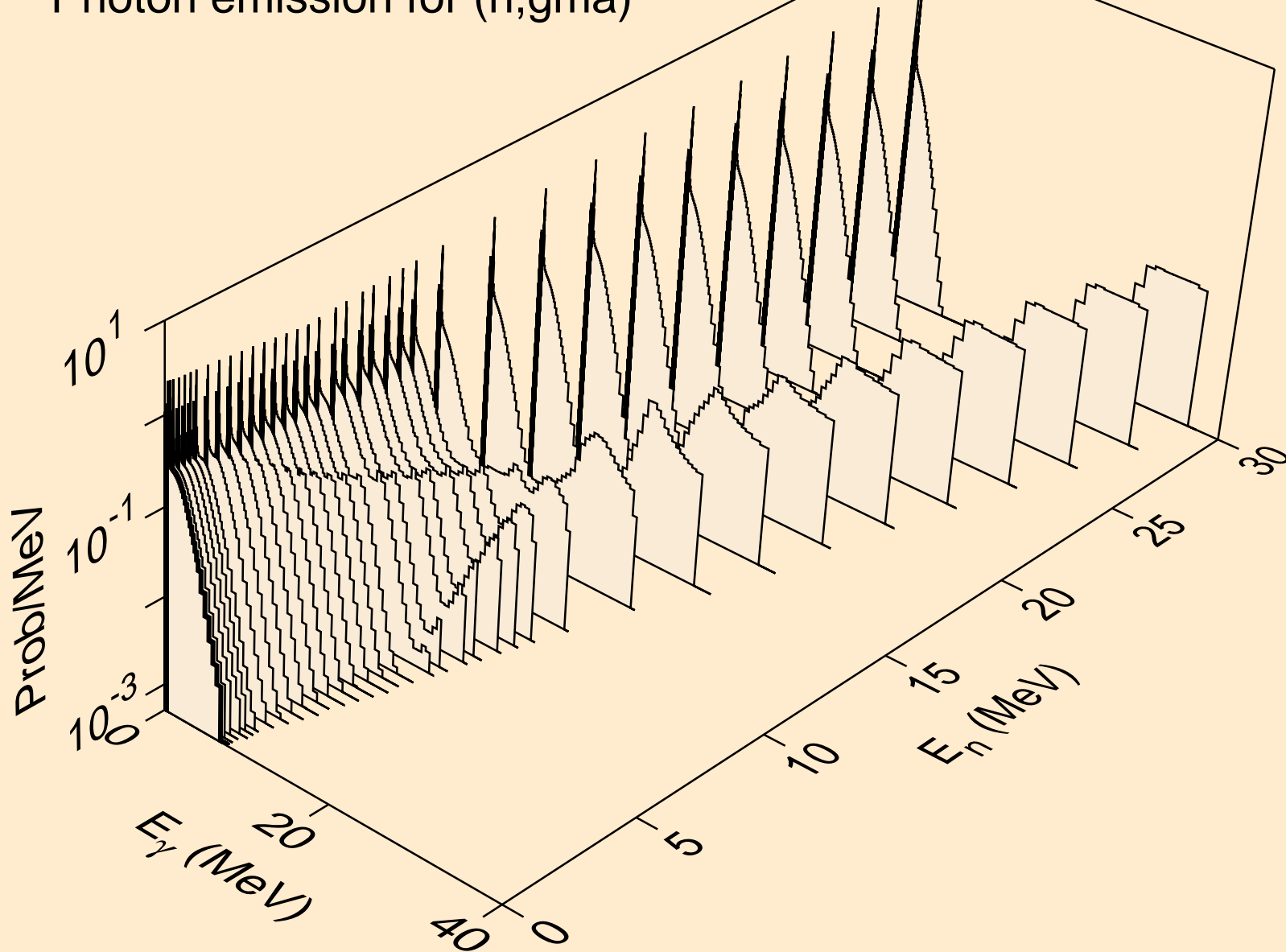




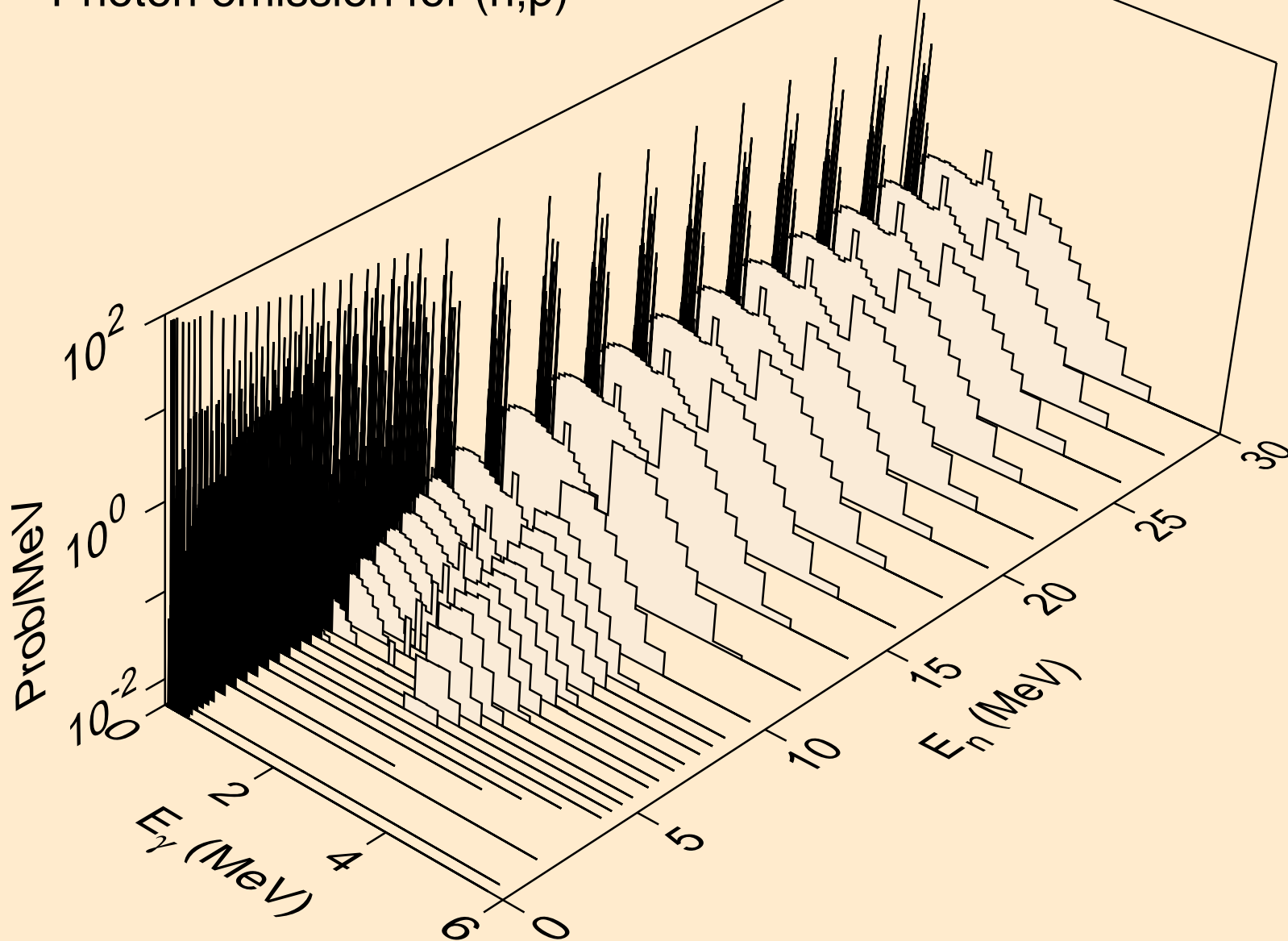
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Photon emission for (n,n\*c)



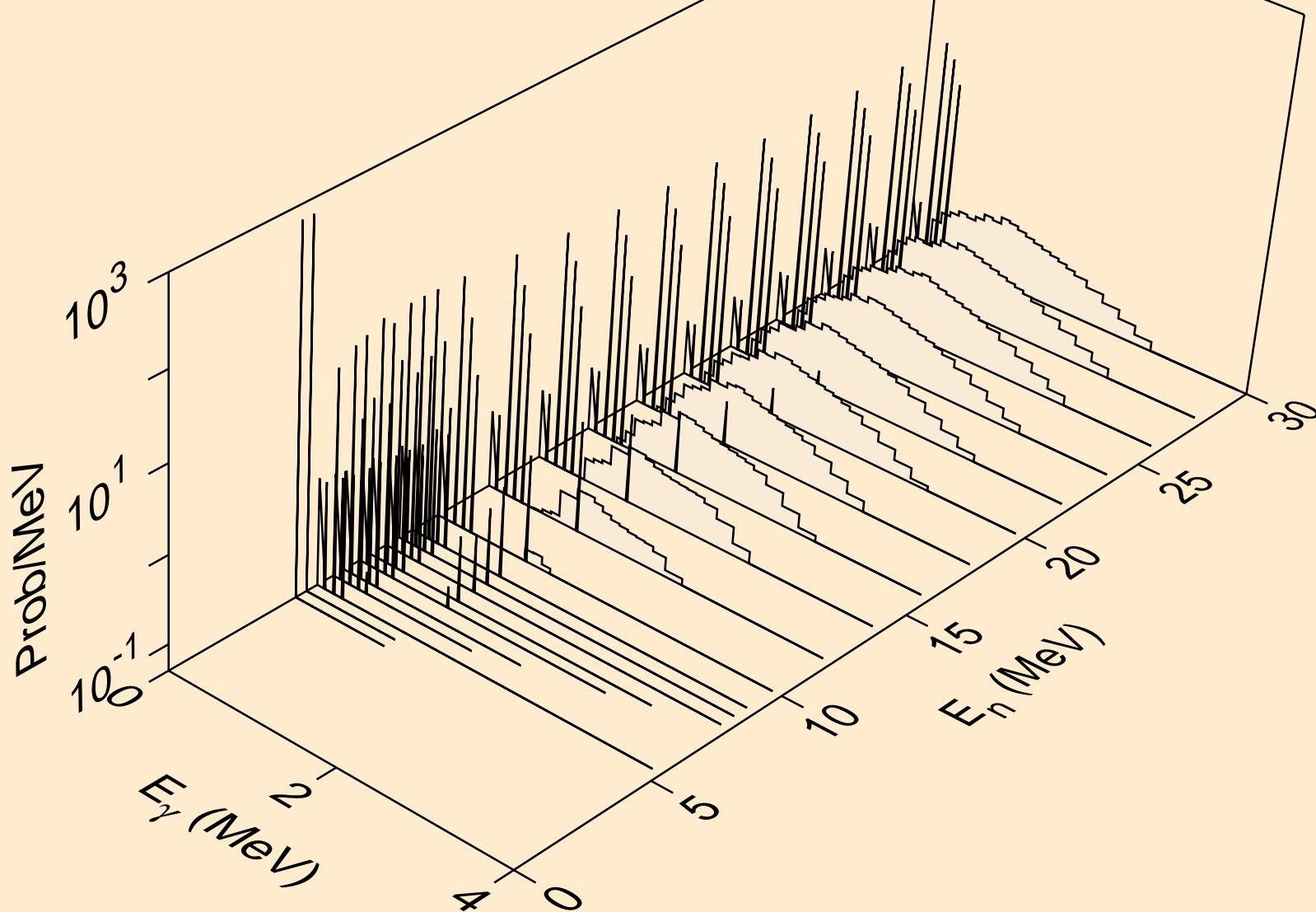
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Photon emission for (n,gma)



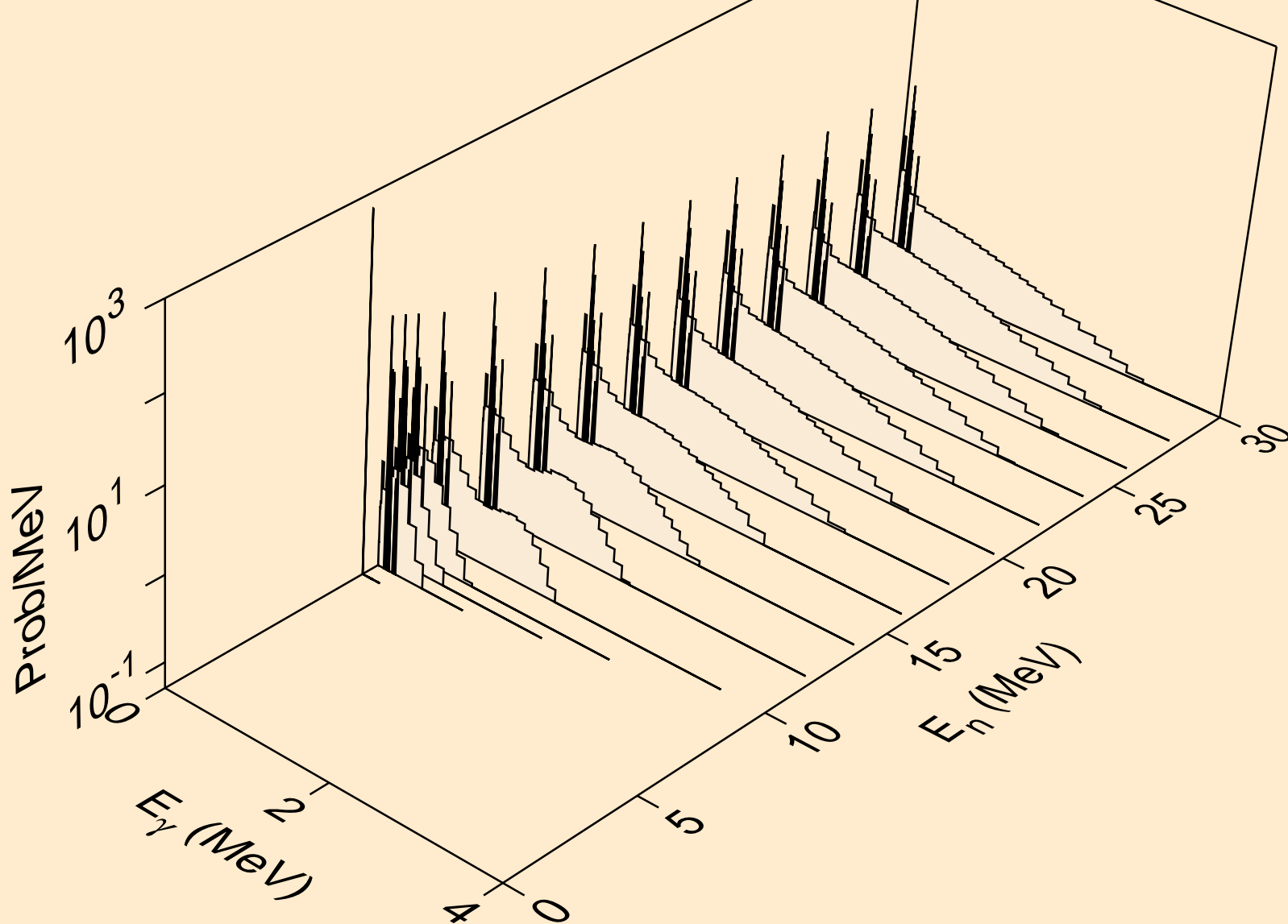
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Photon emission for (n,p)



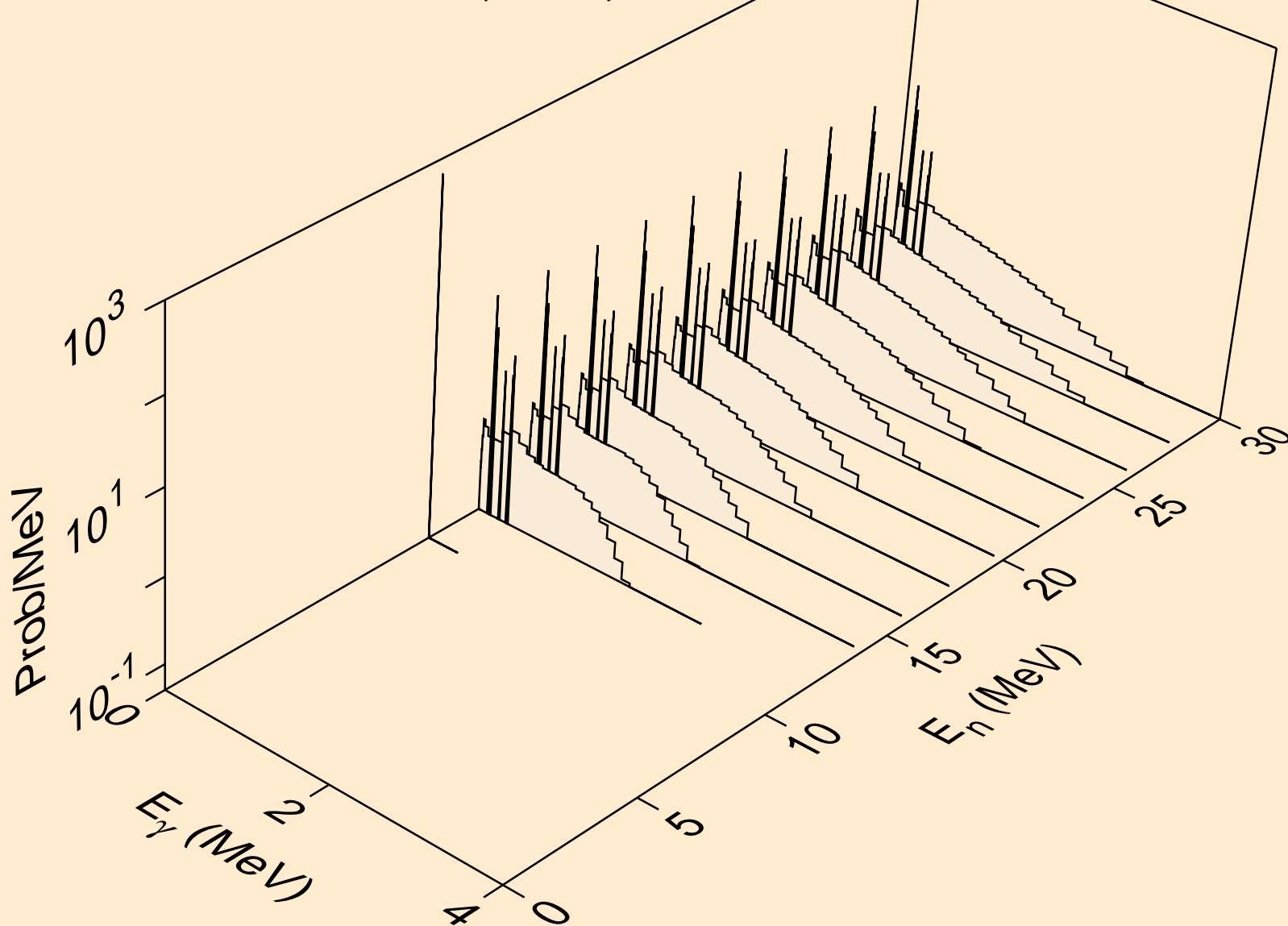
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Photon emission for (n,d)



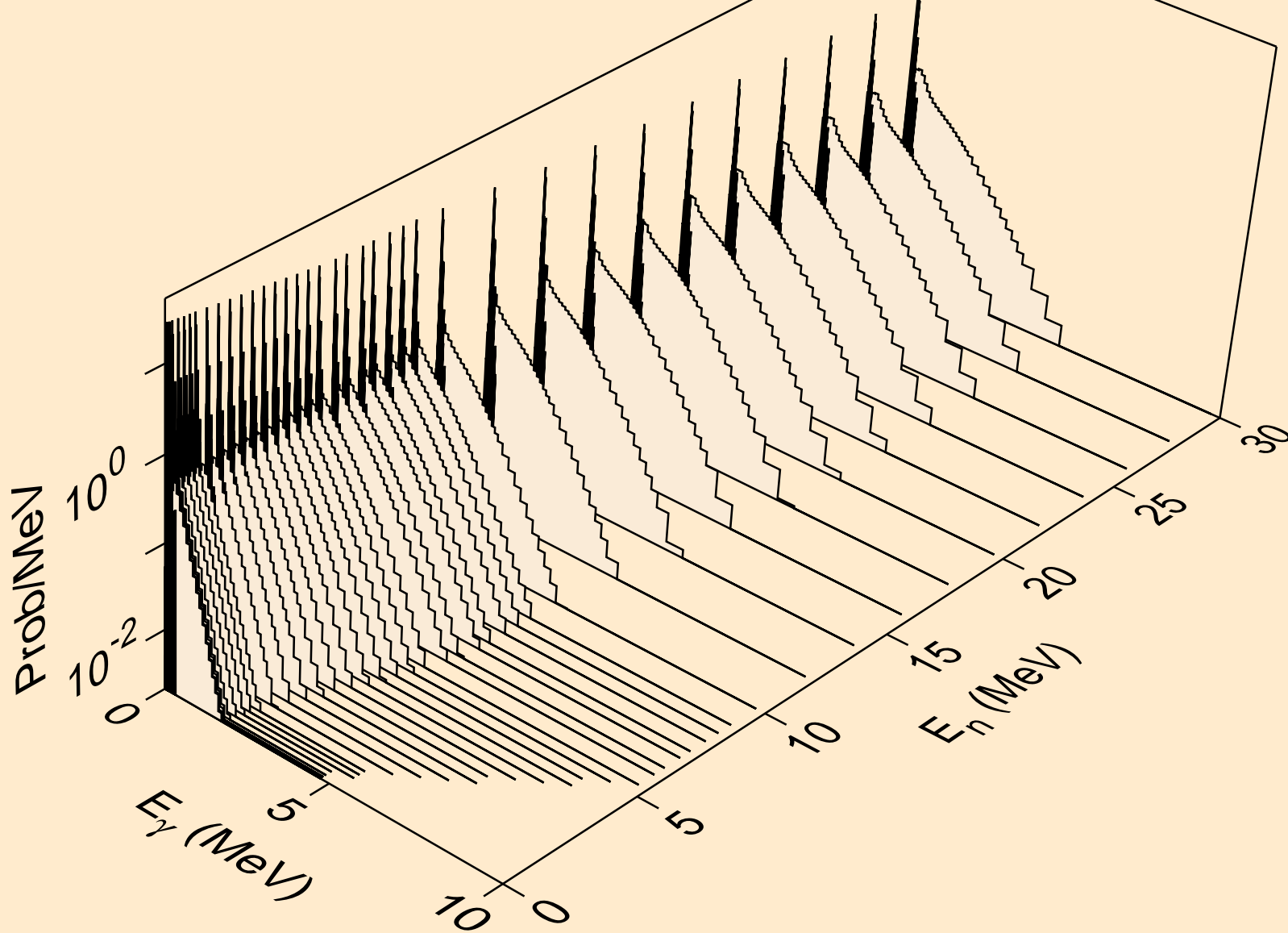
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Photon emission for (n,t)



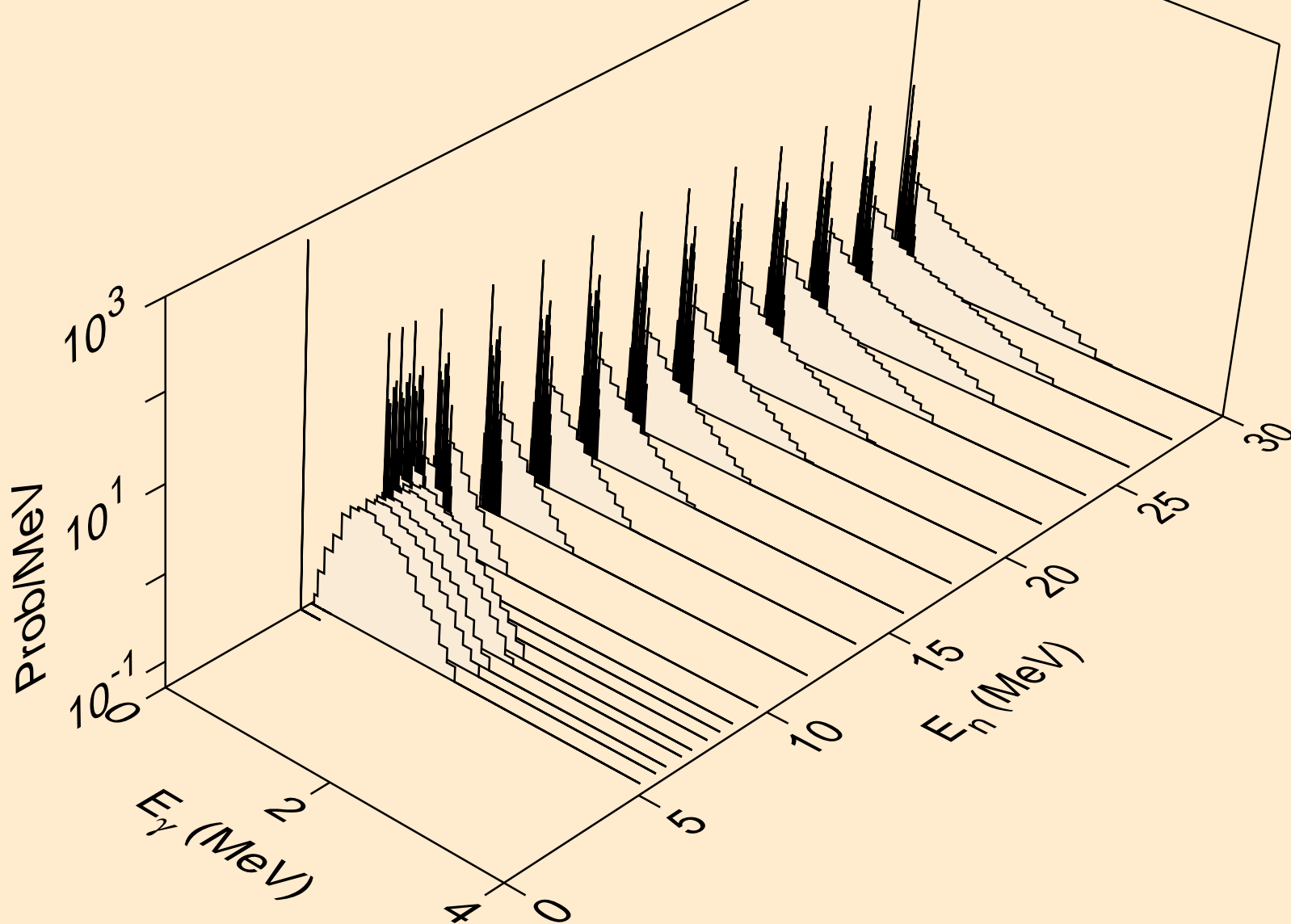
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Photon emission for (n,he3)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

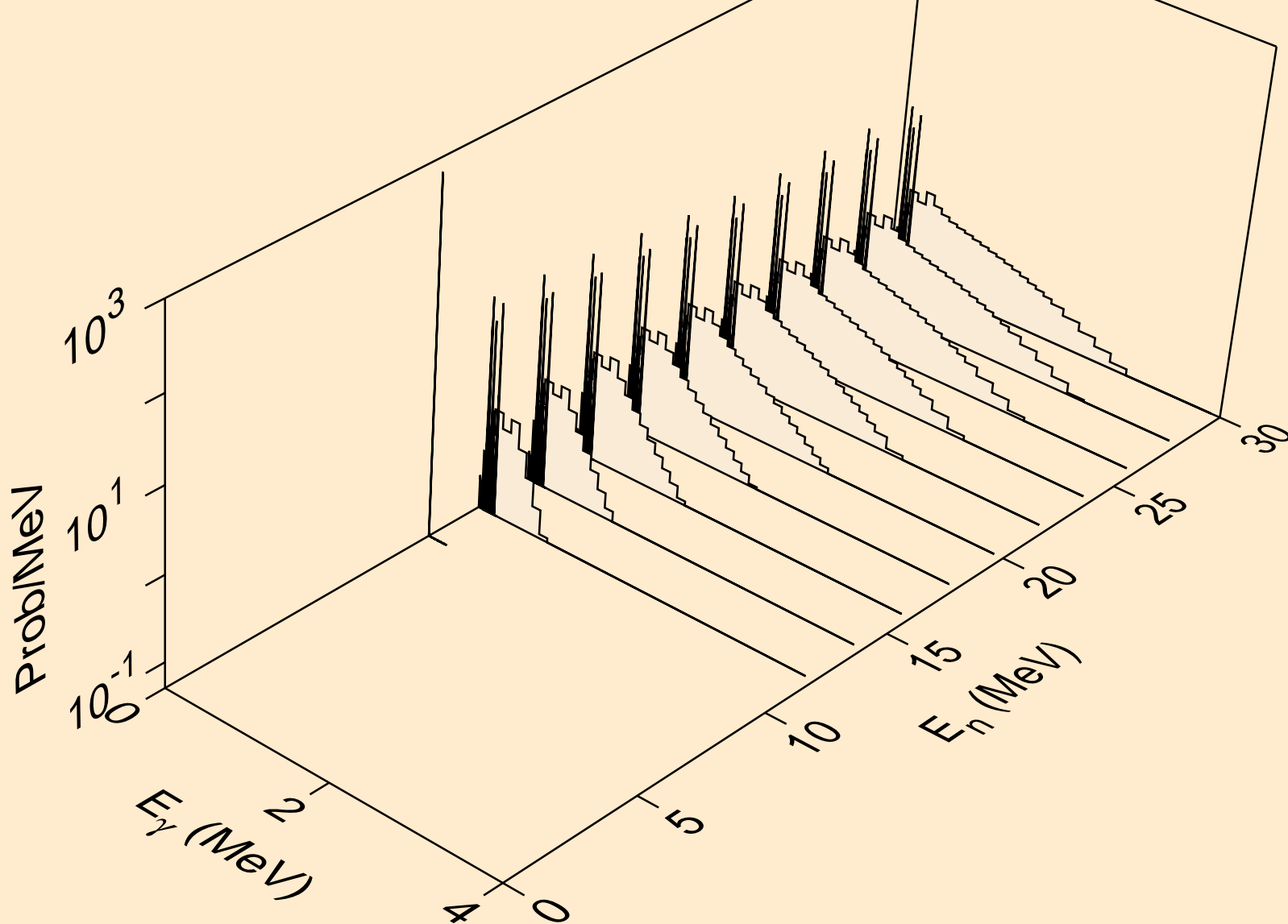


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Photon emission for (n,2a)

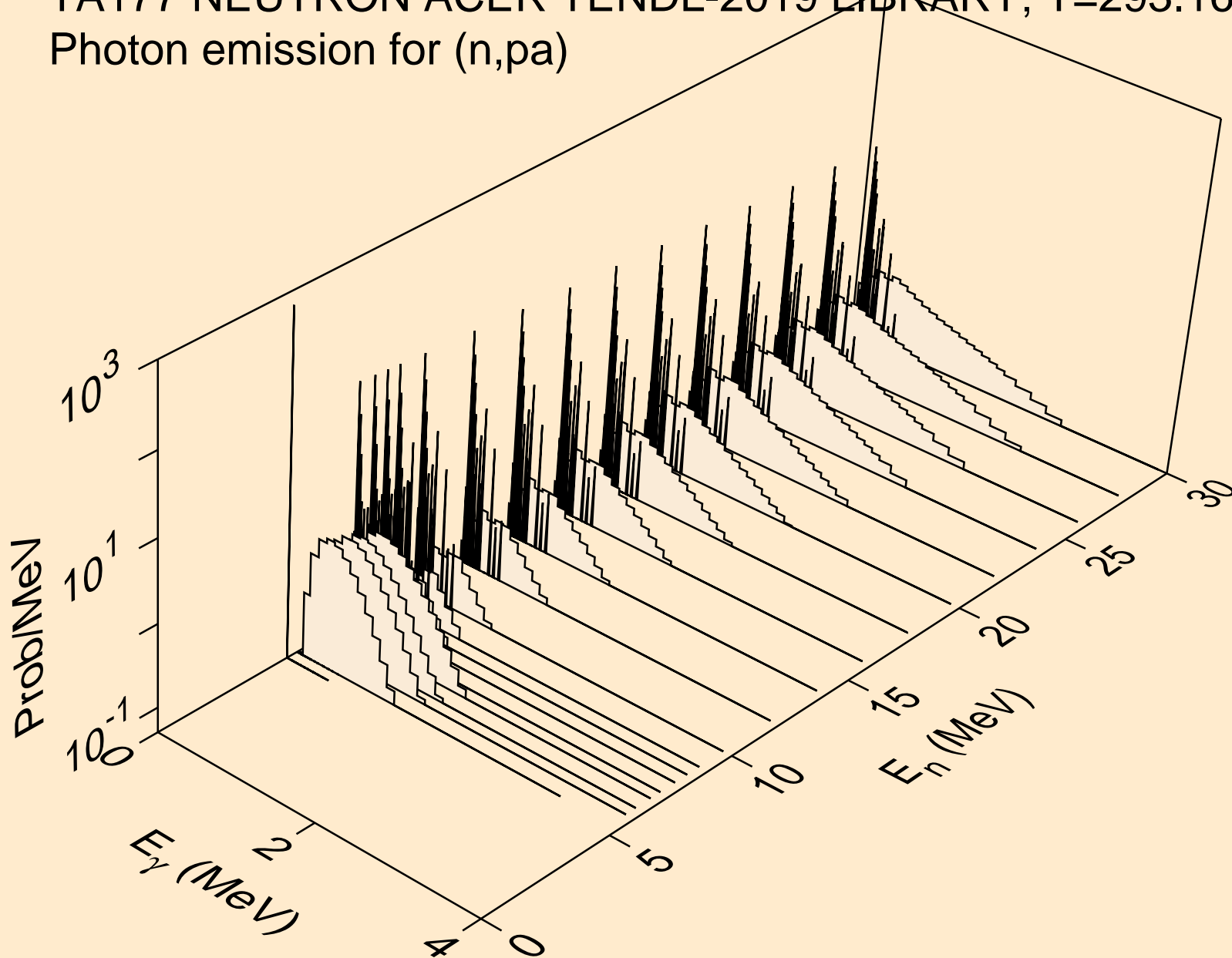




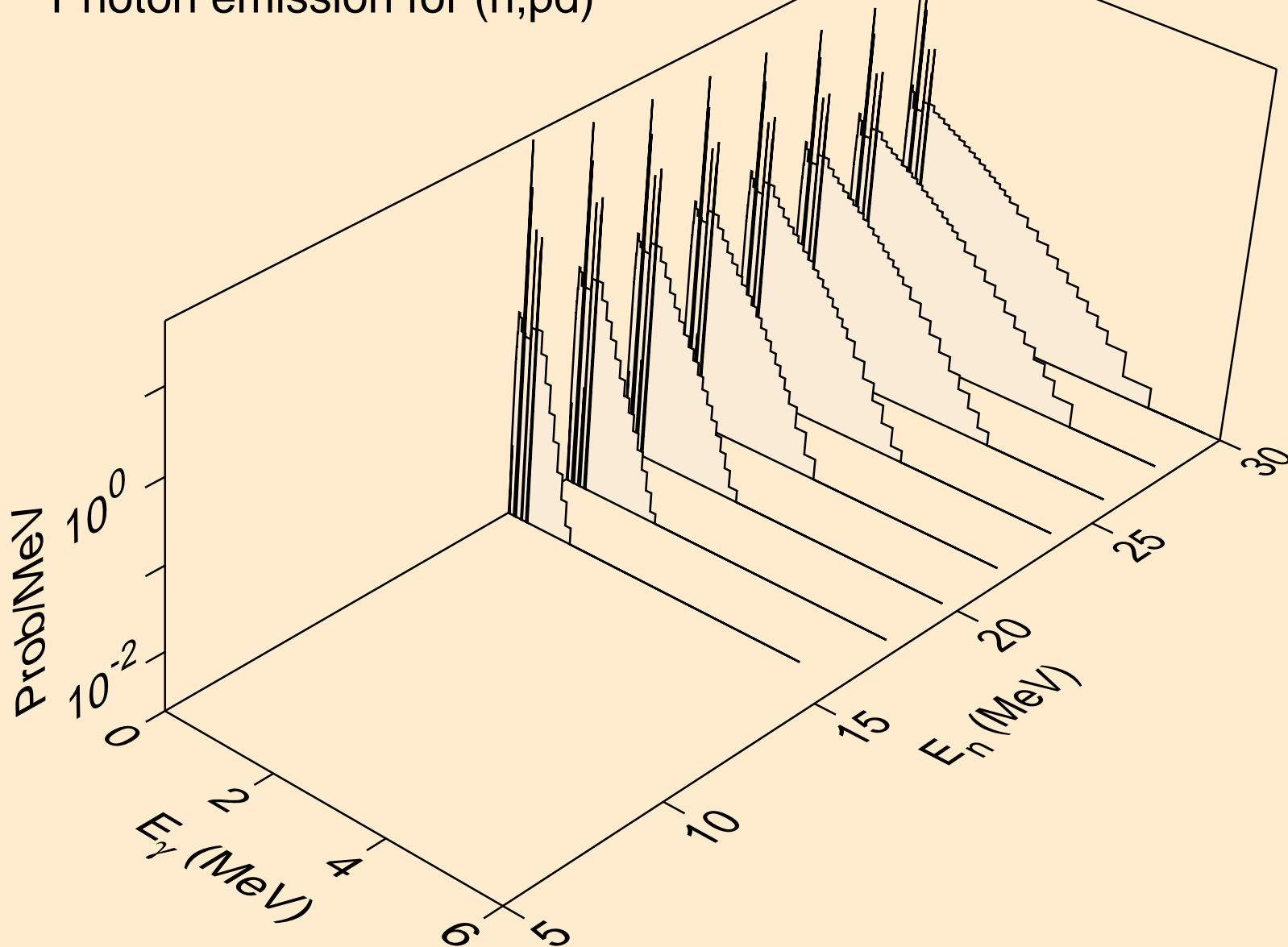
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Photon emission for (n,2p)



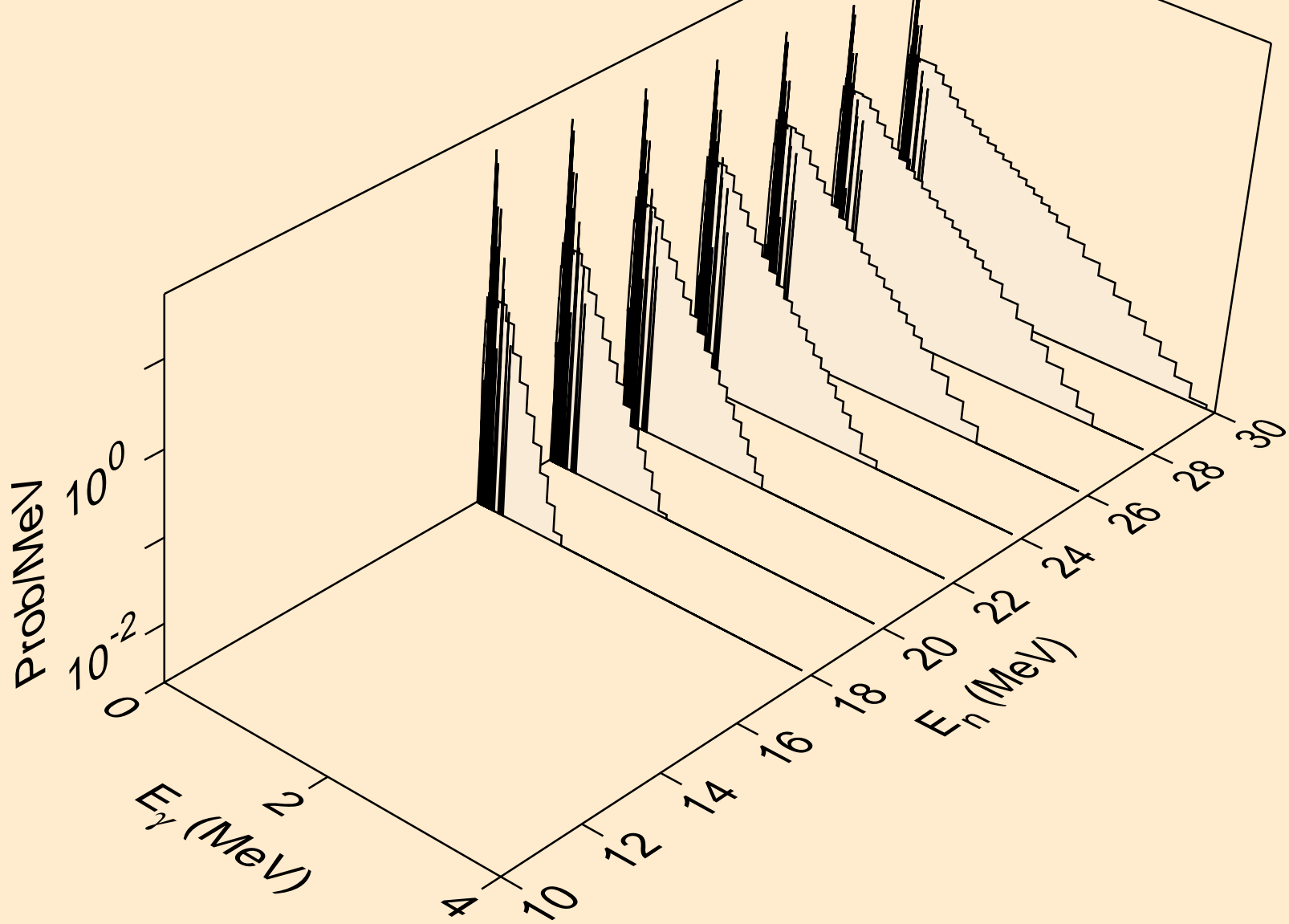
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Photon emission for (n,p $\alpha$ )



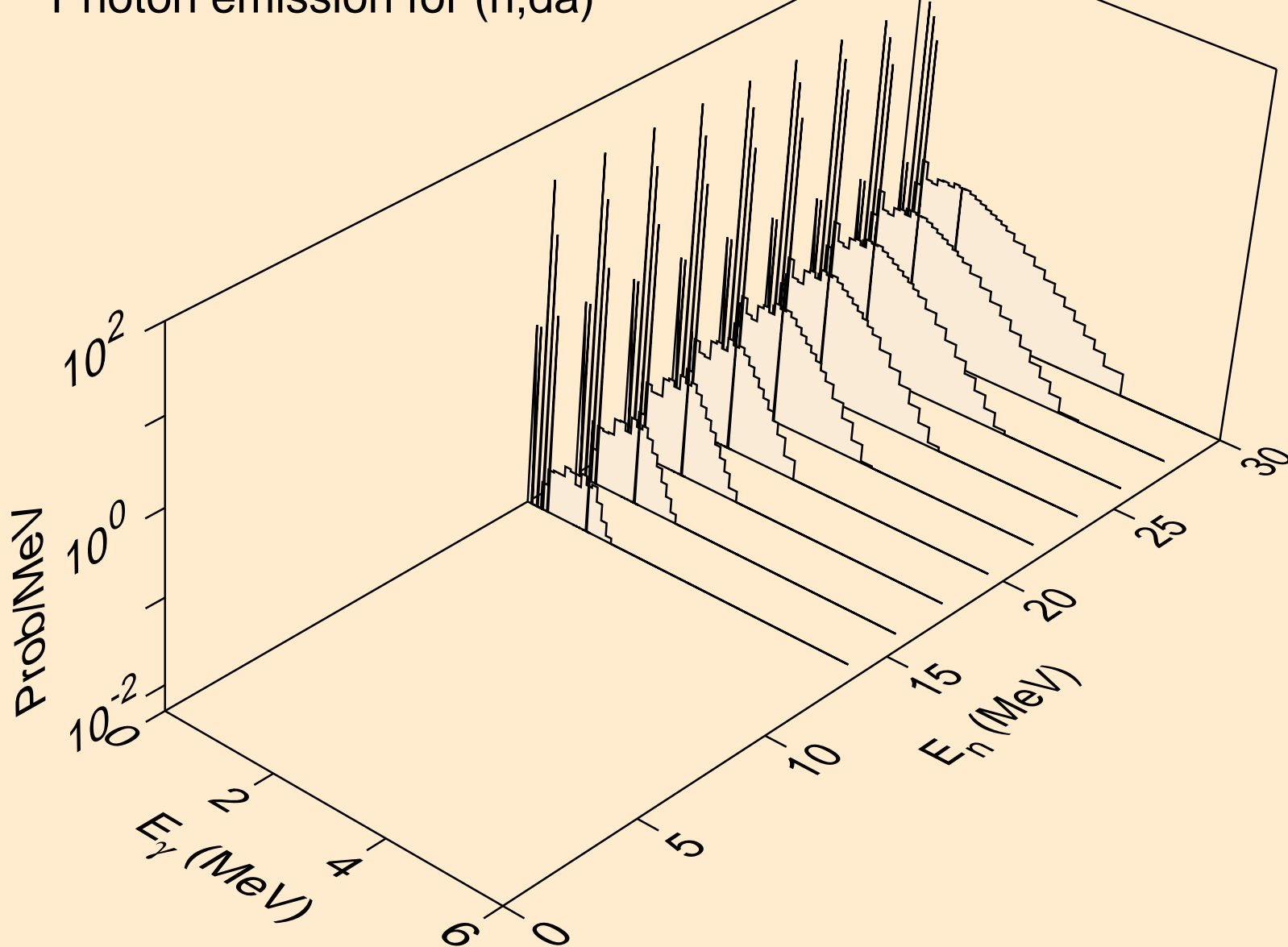
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Photon emission for (n,pd)



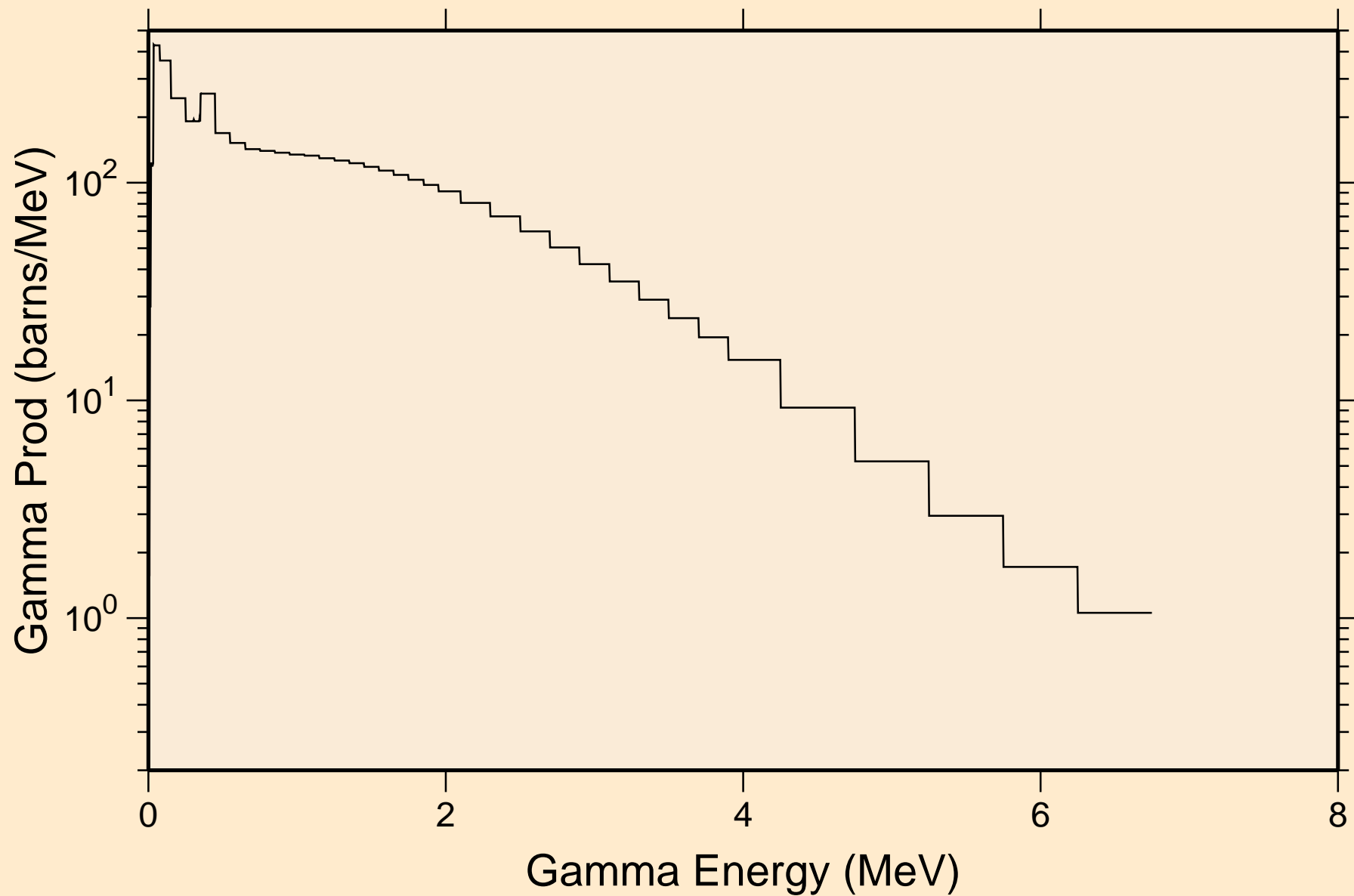
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Photon emission for (n,pt)



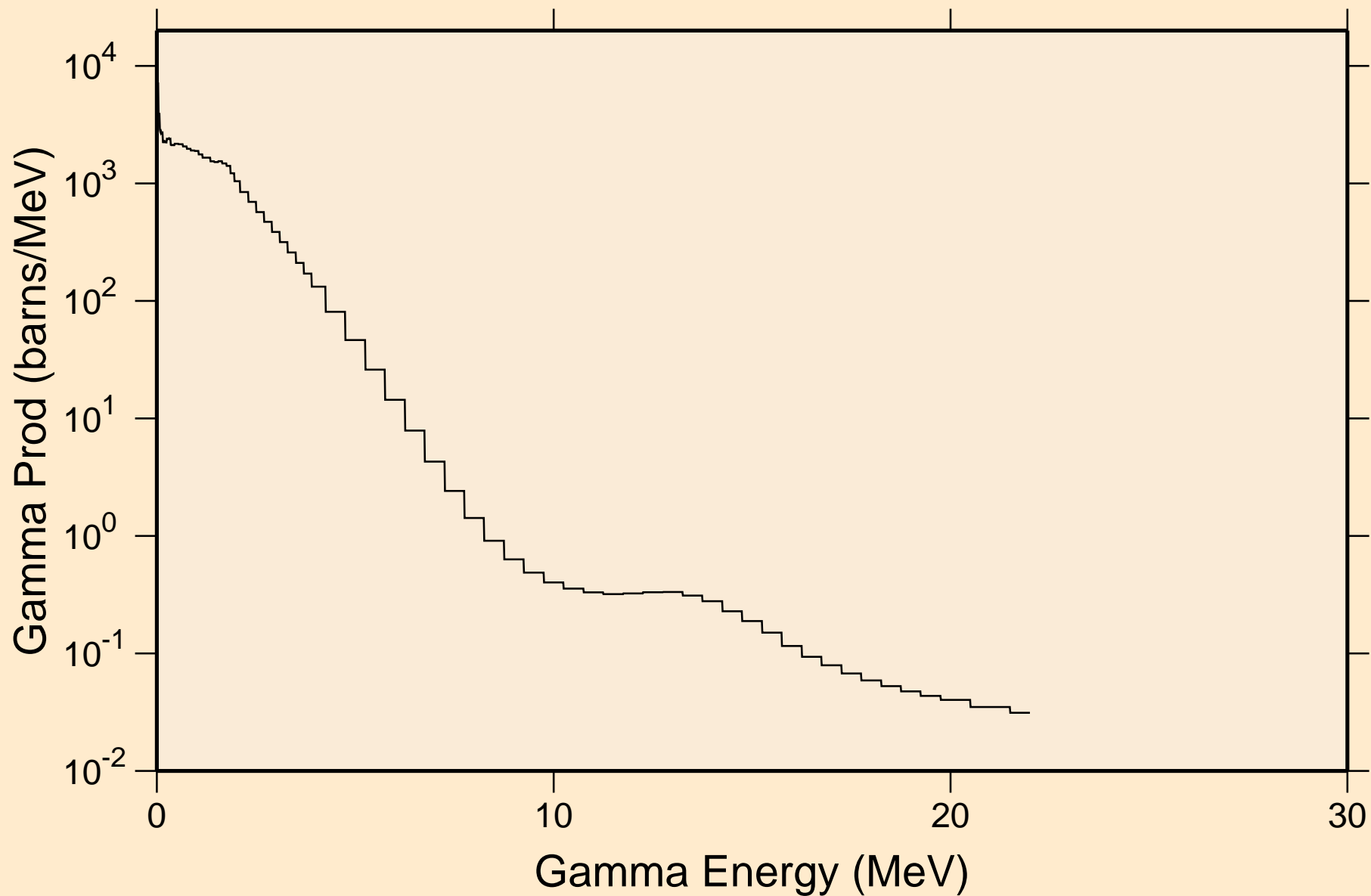
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Photon emission for (n,da)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

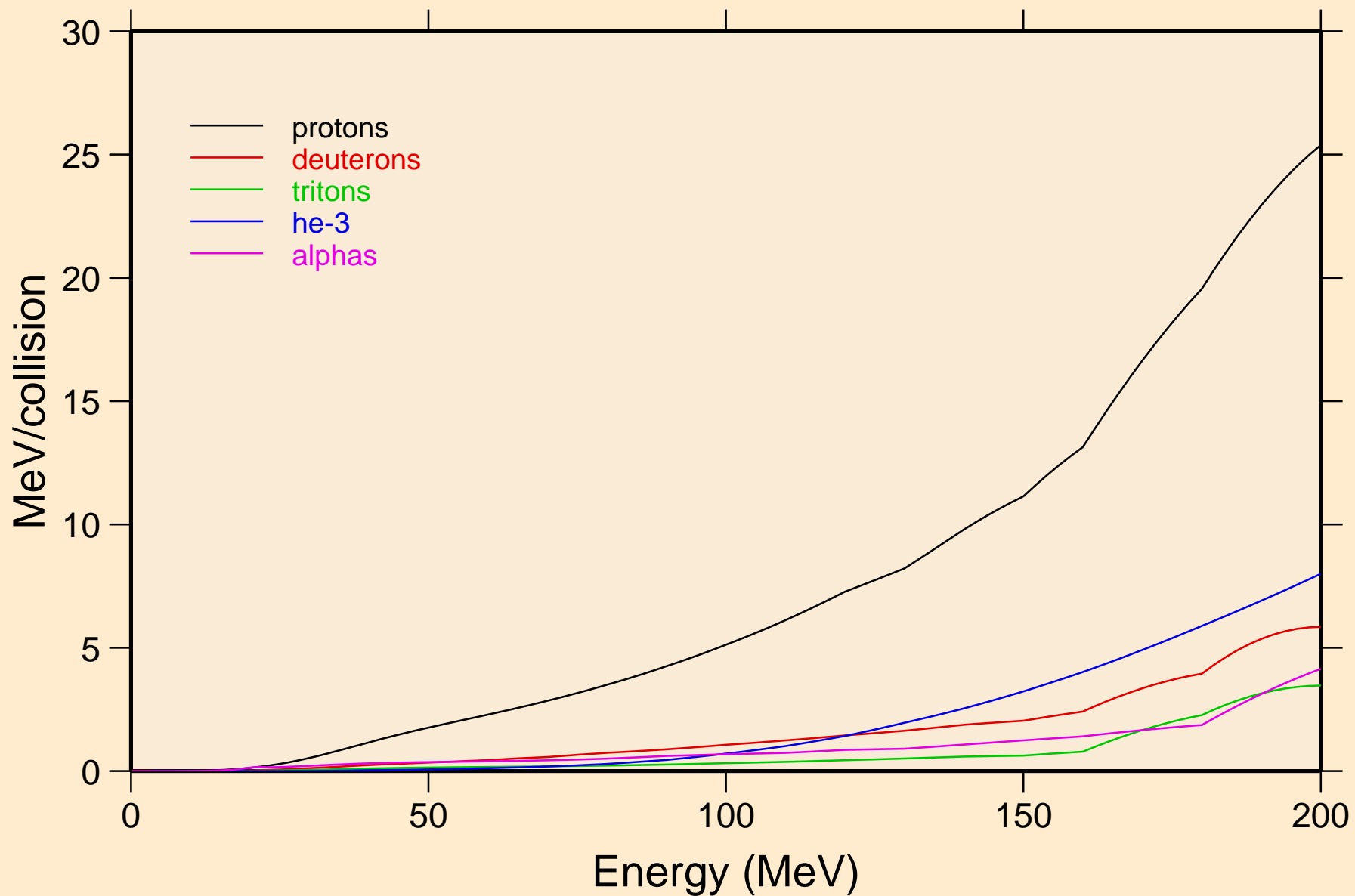


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14 MeV photon spectrum



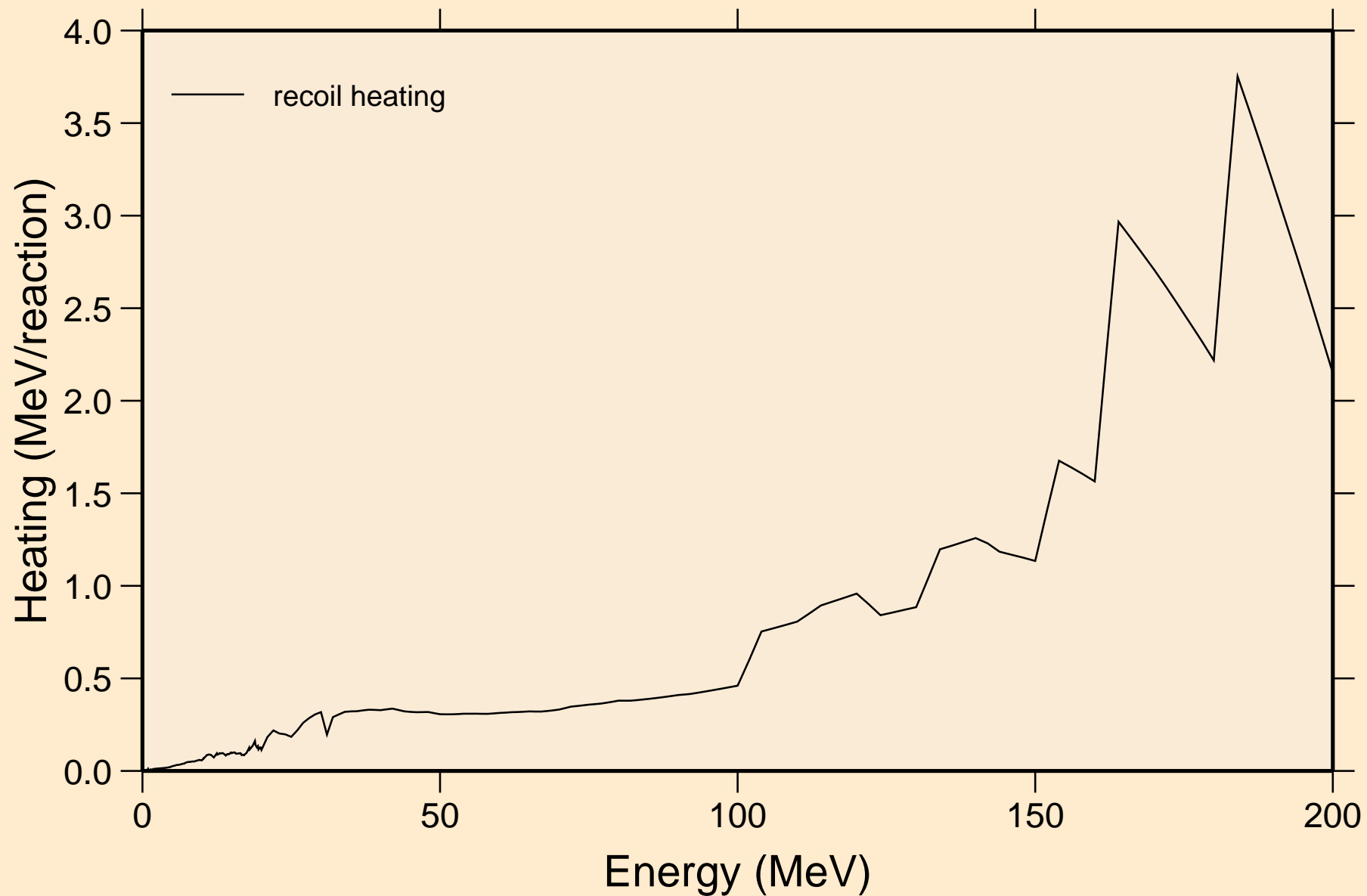
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## Particle heating contributions

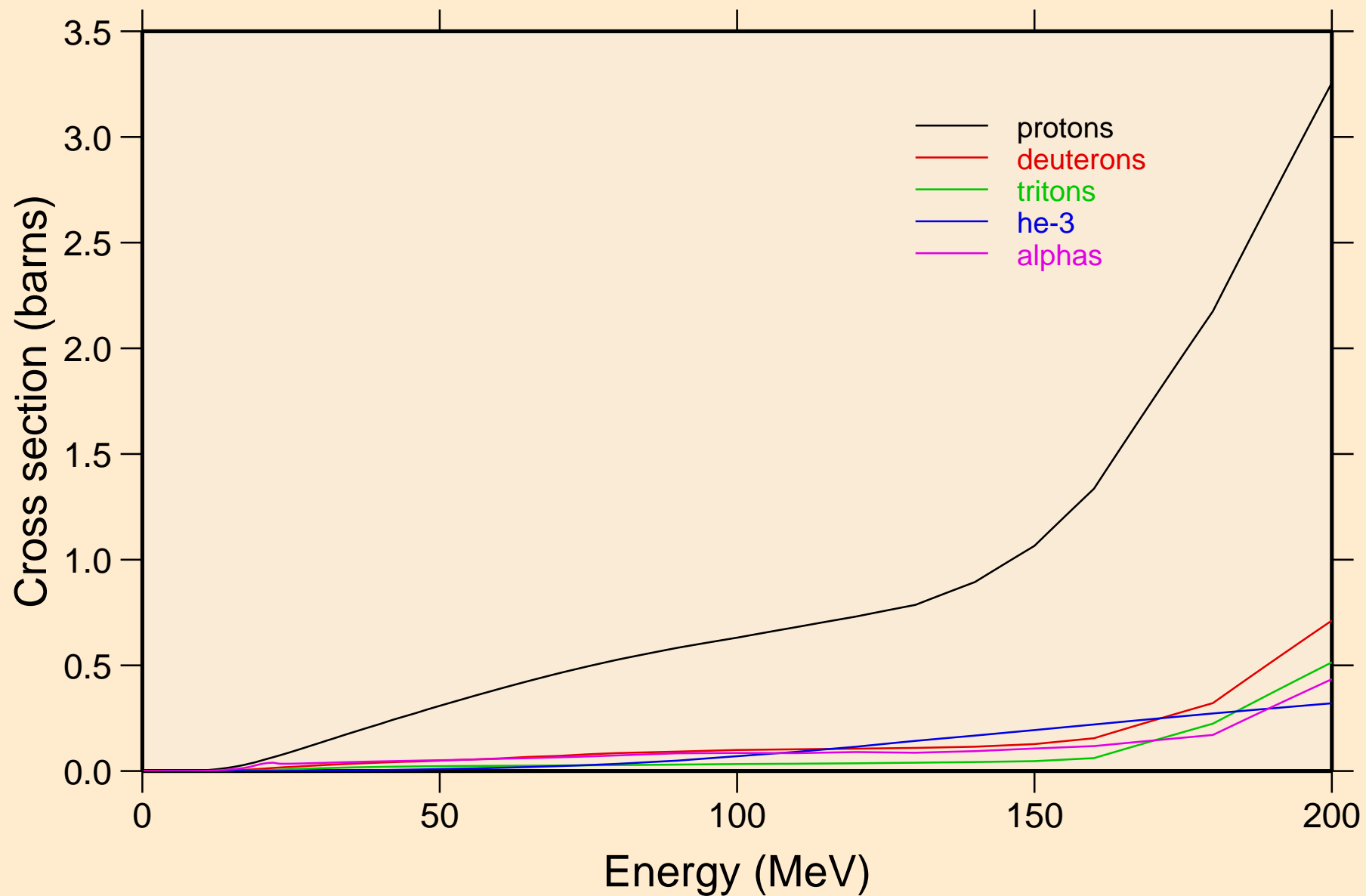




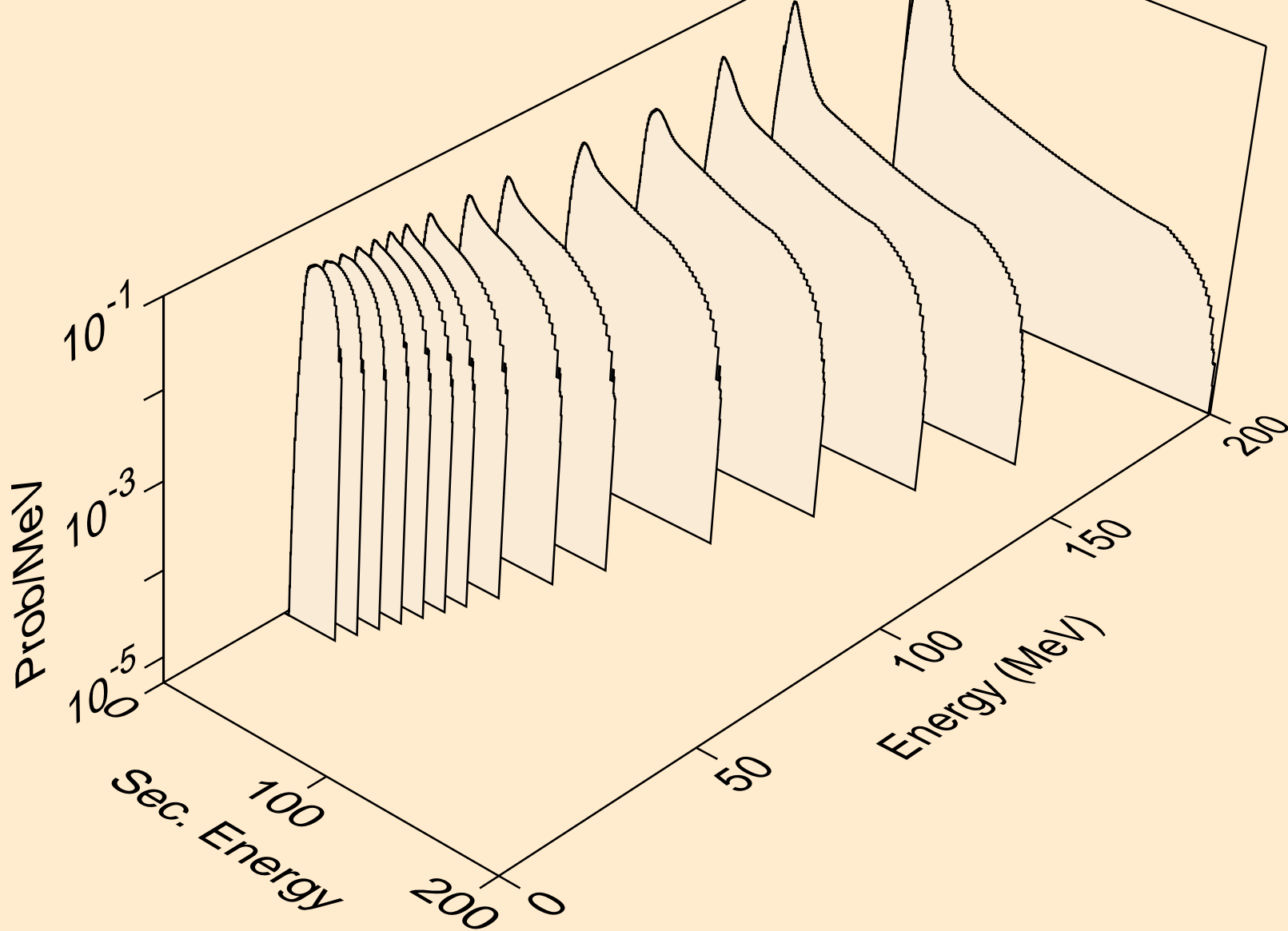
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Recoil Heating



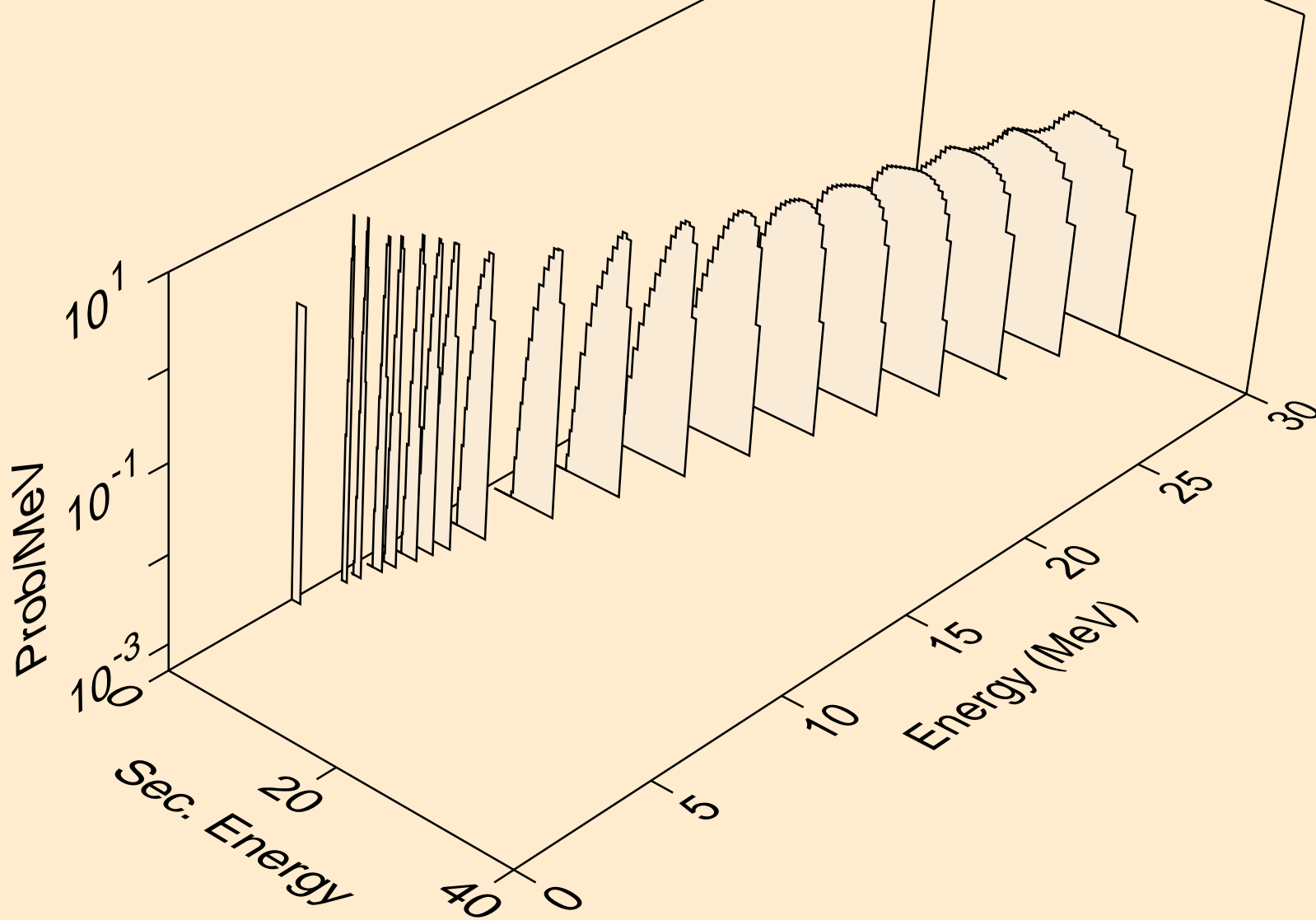
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Particle production cross sections



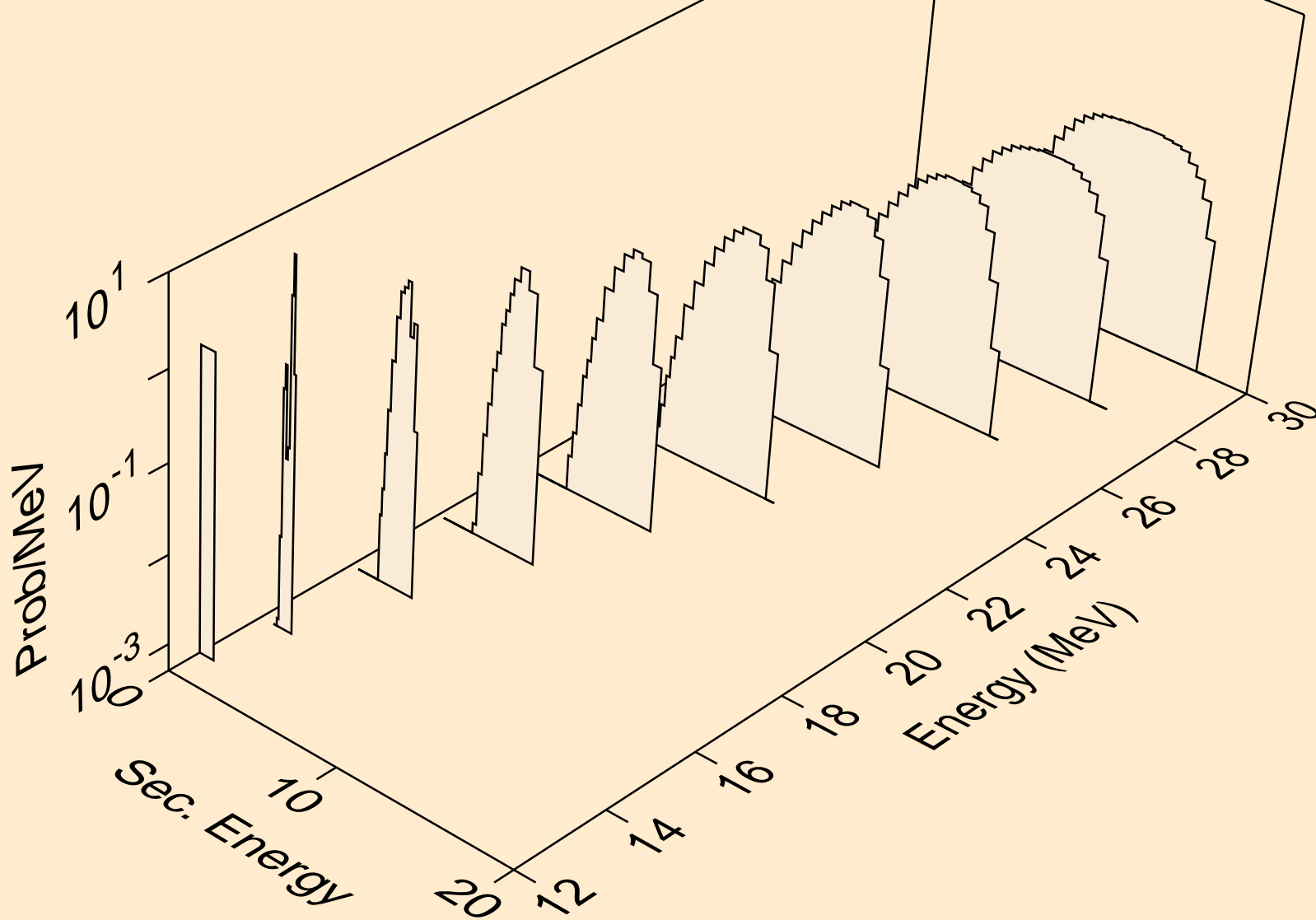
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protons from (n,x)



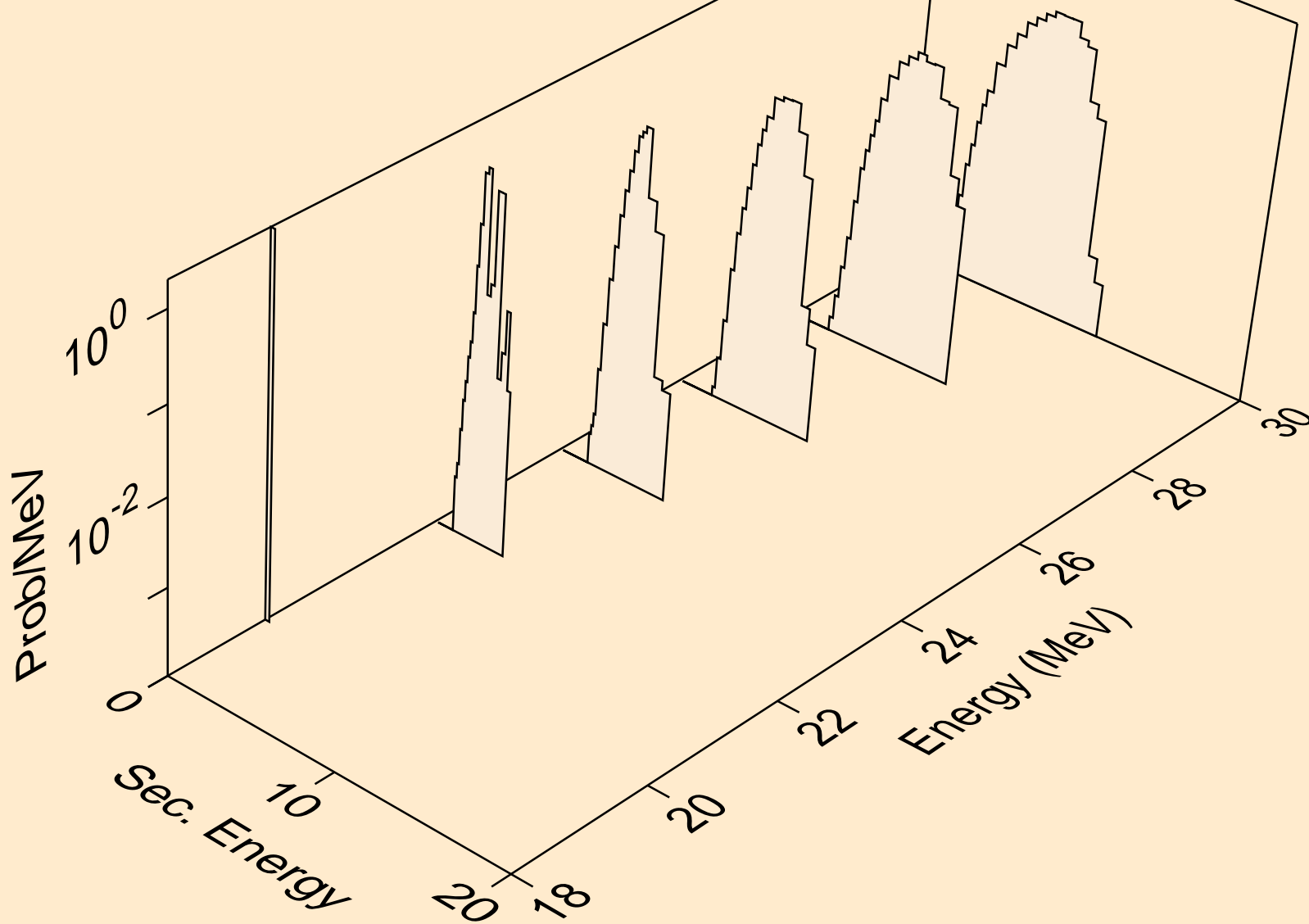
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protons from (n,n\*)p



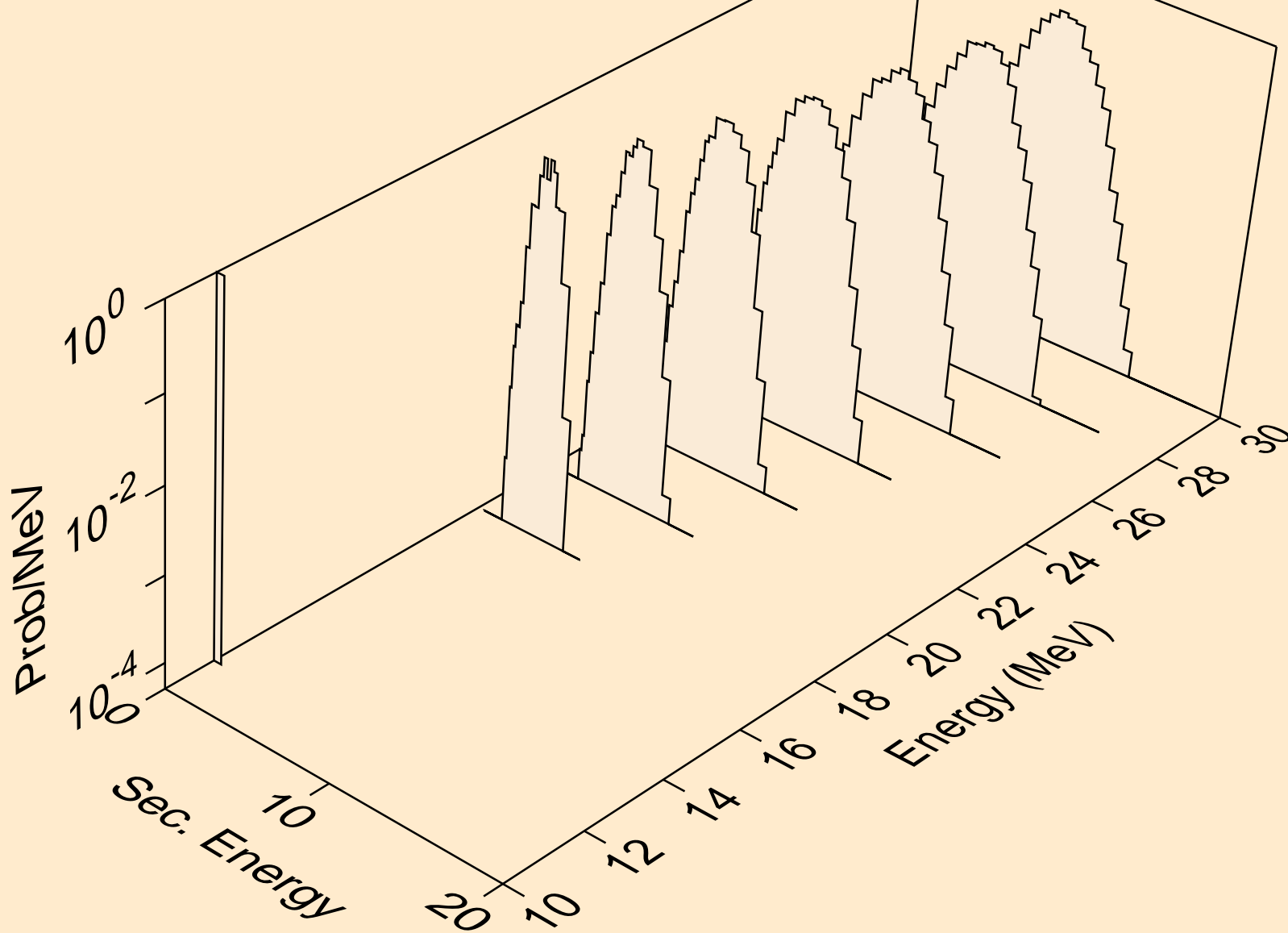
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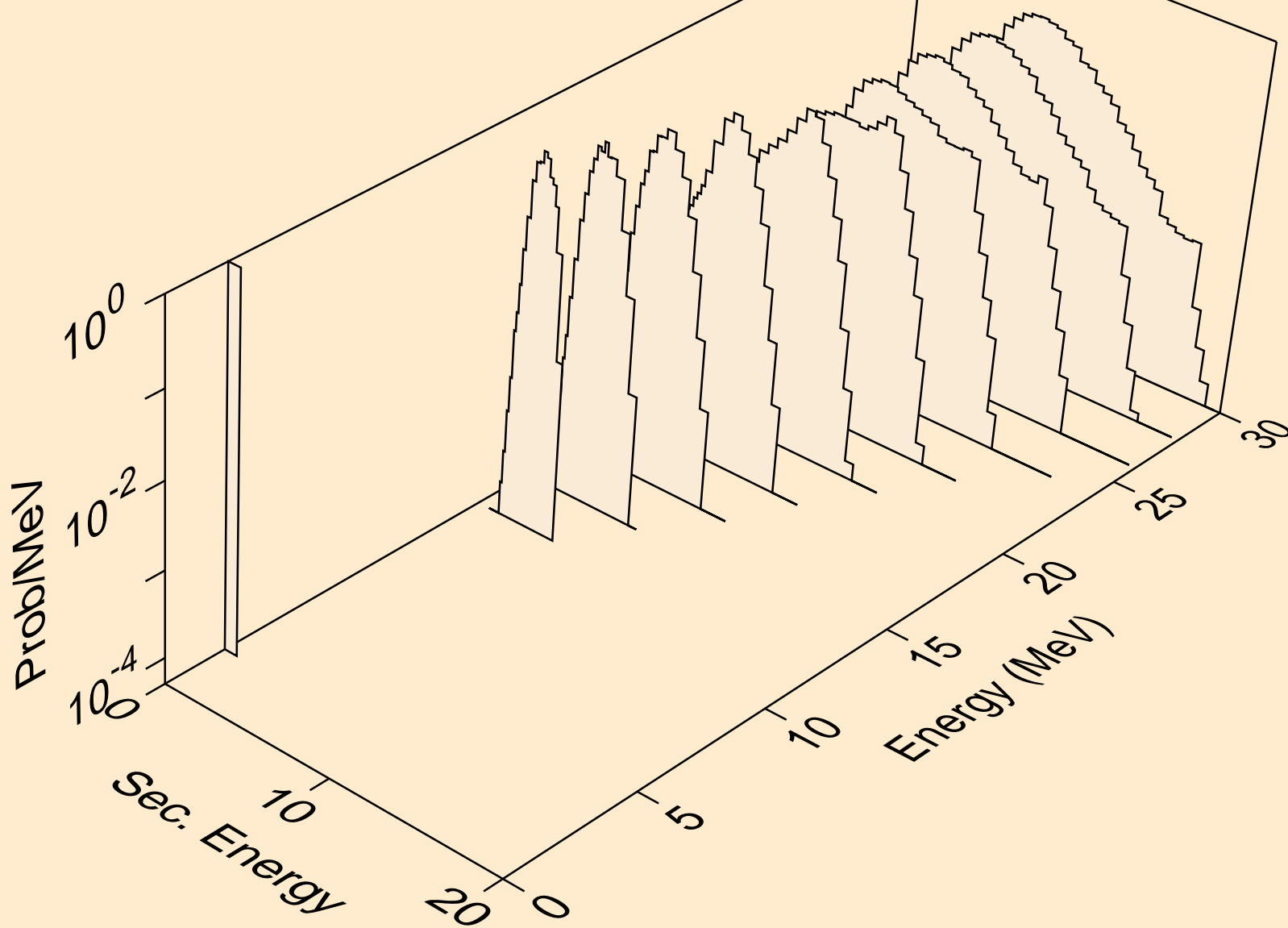
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protons from (n,3np)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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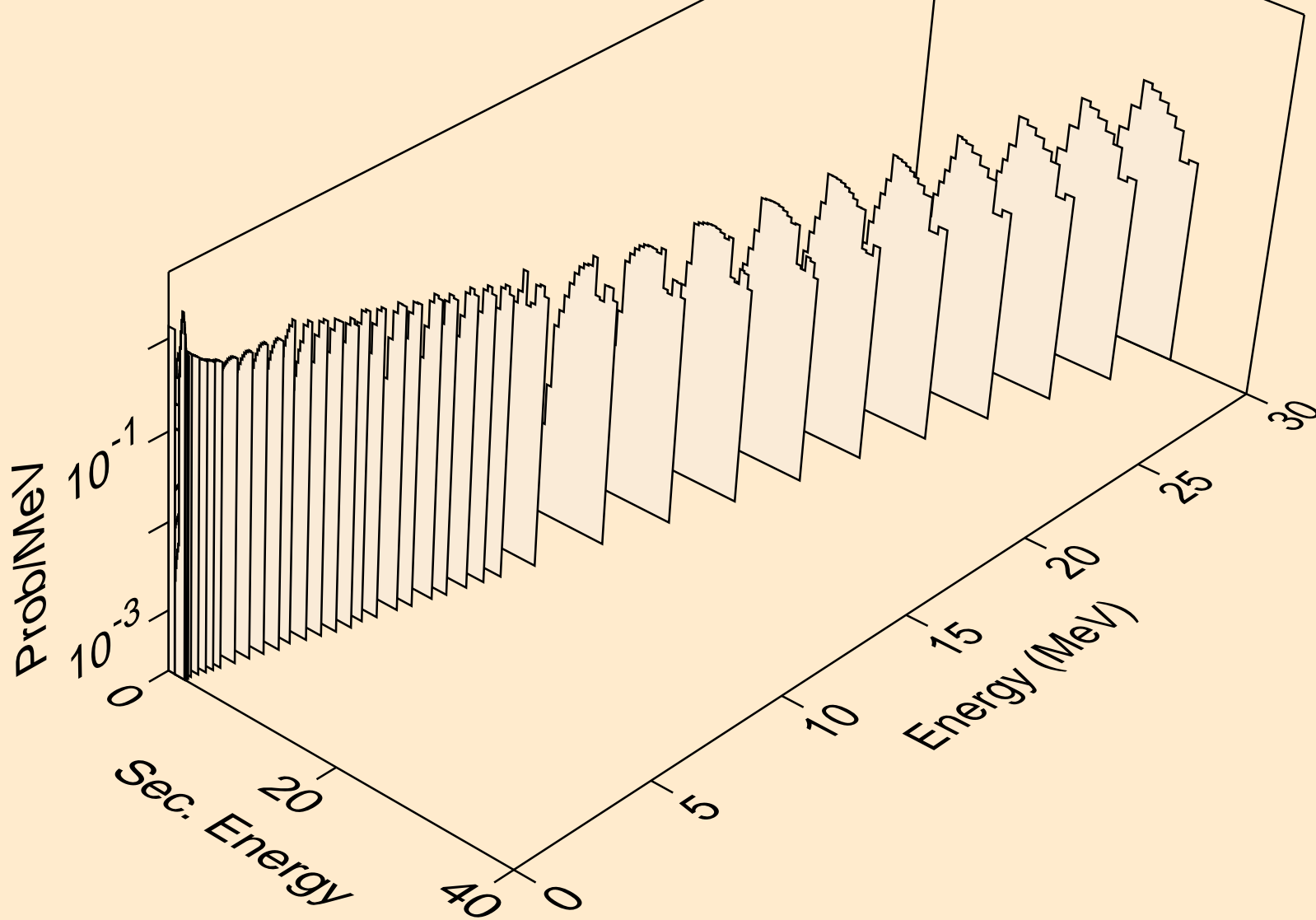


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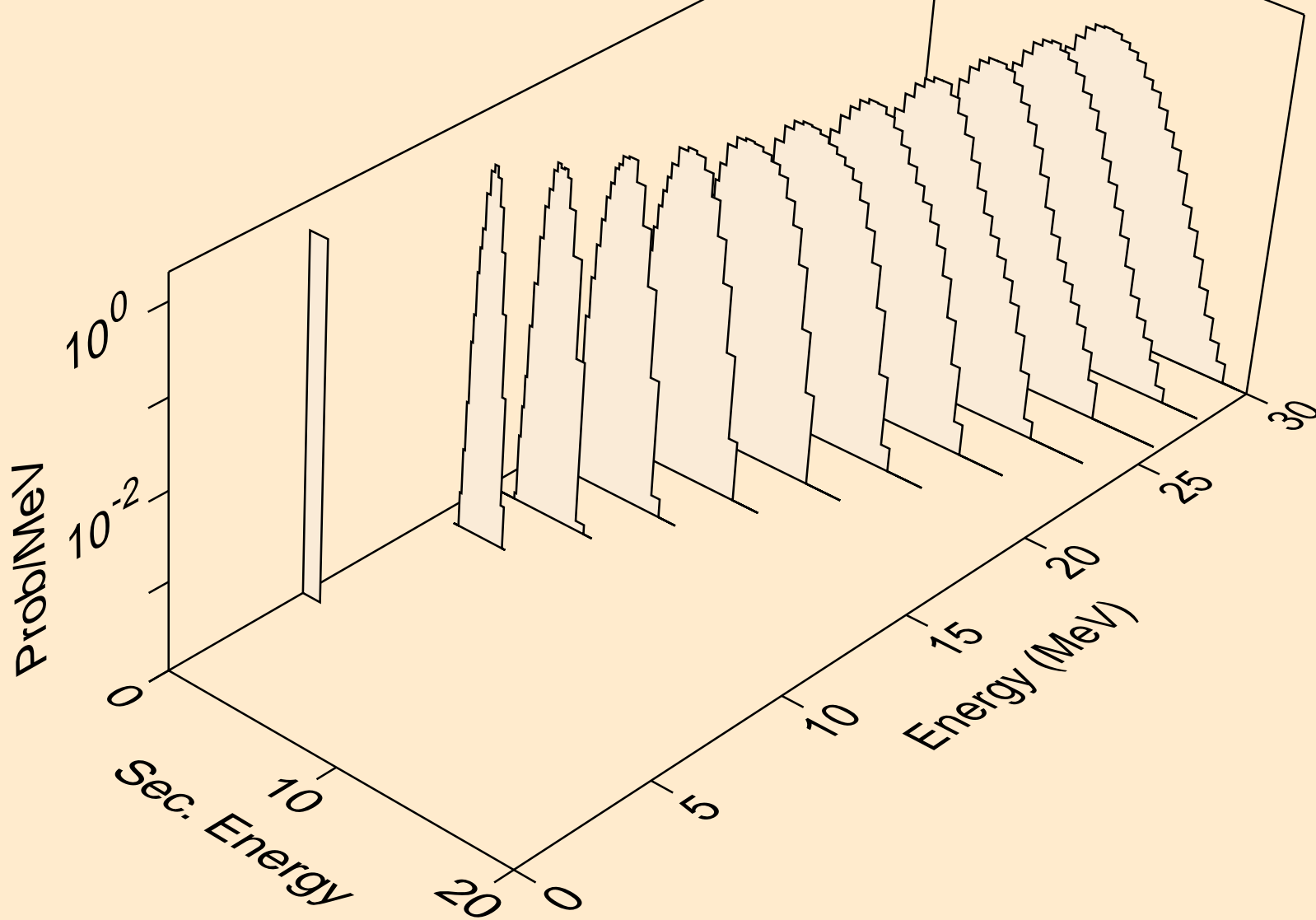




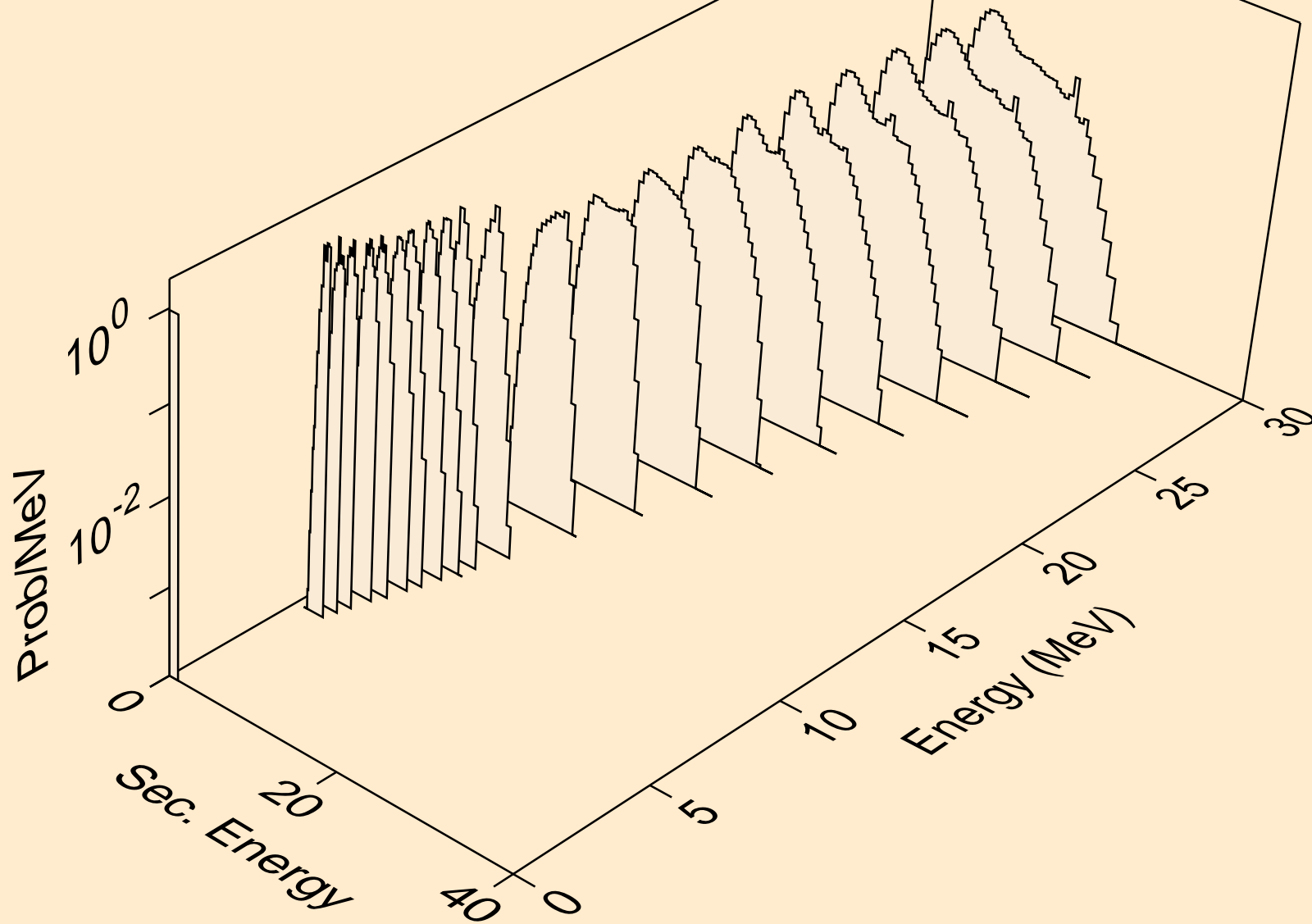
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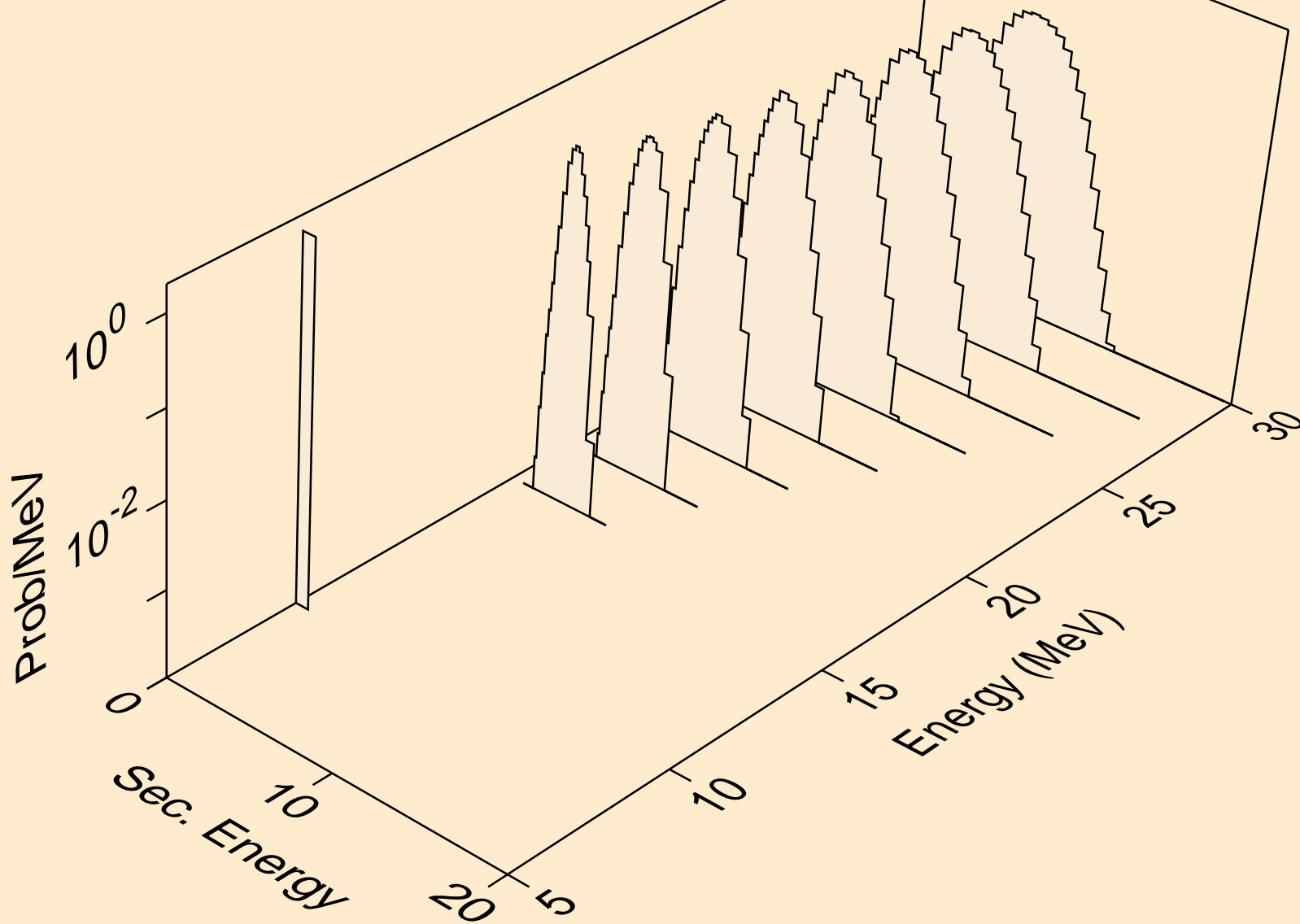
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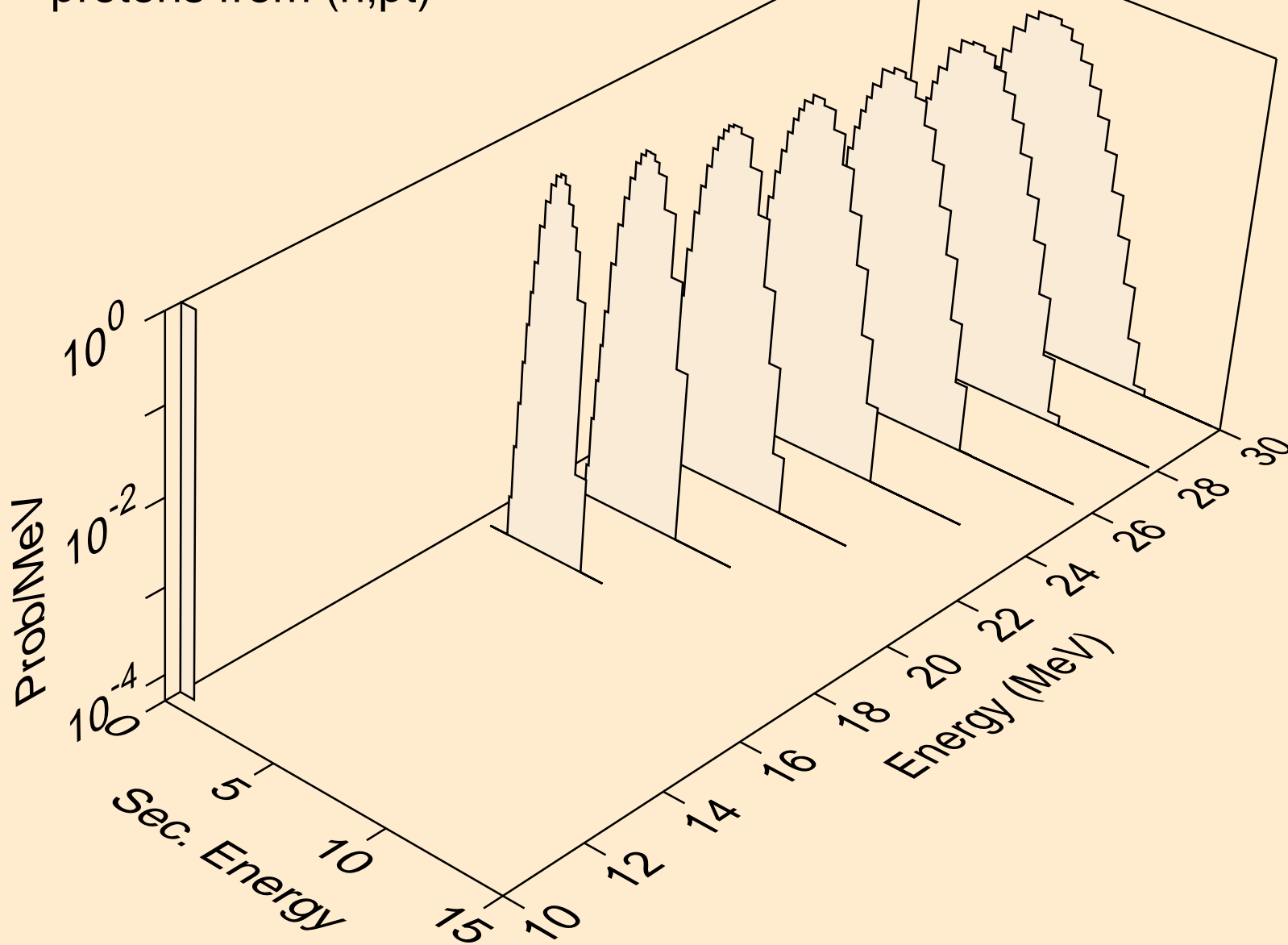
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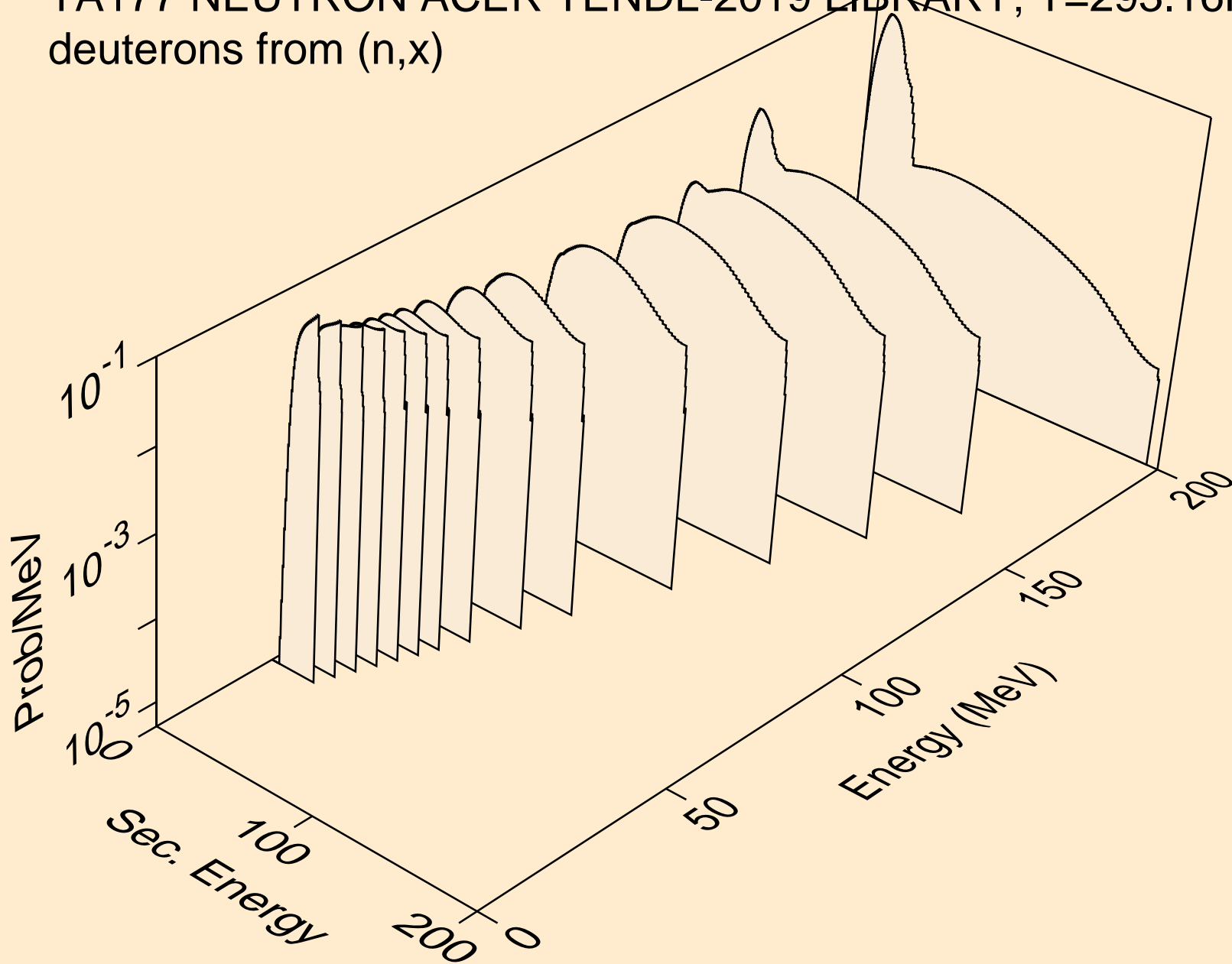
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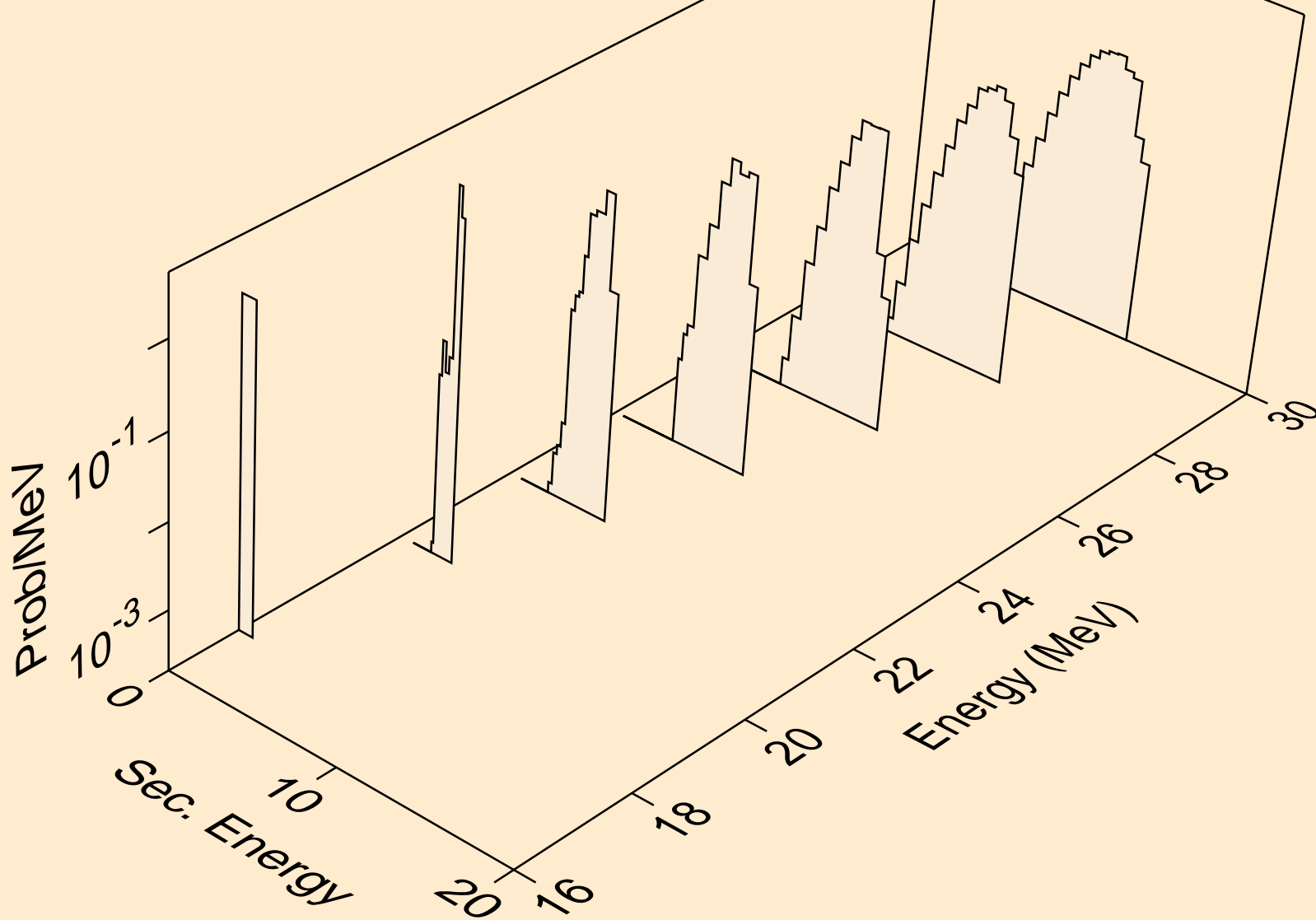
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protons from (n,pt)



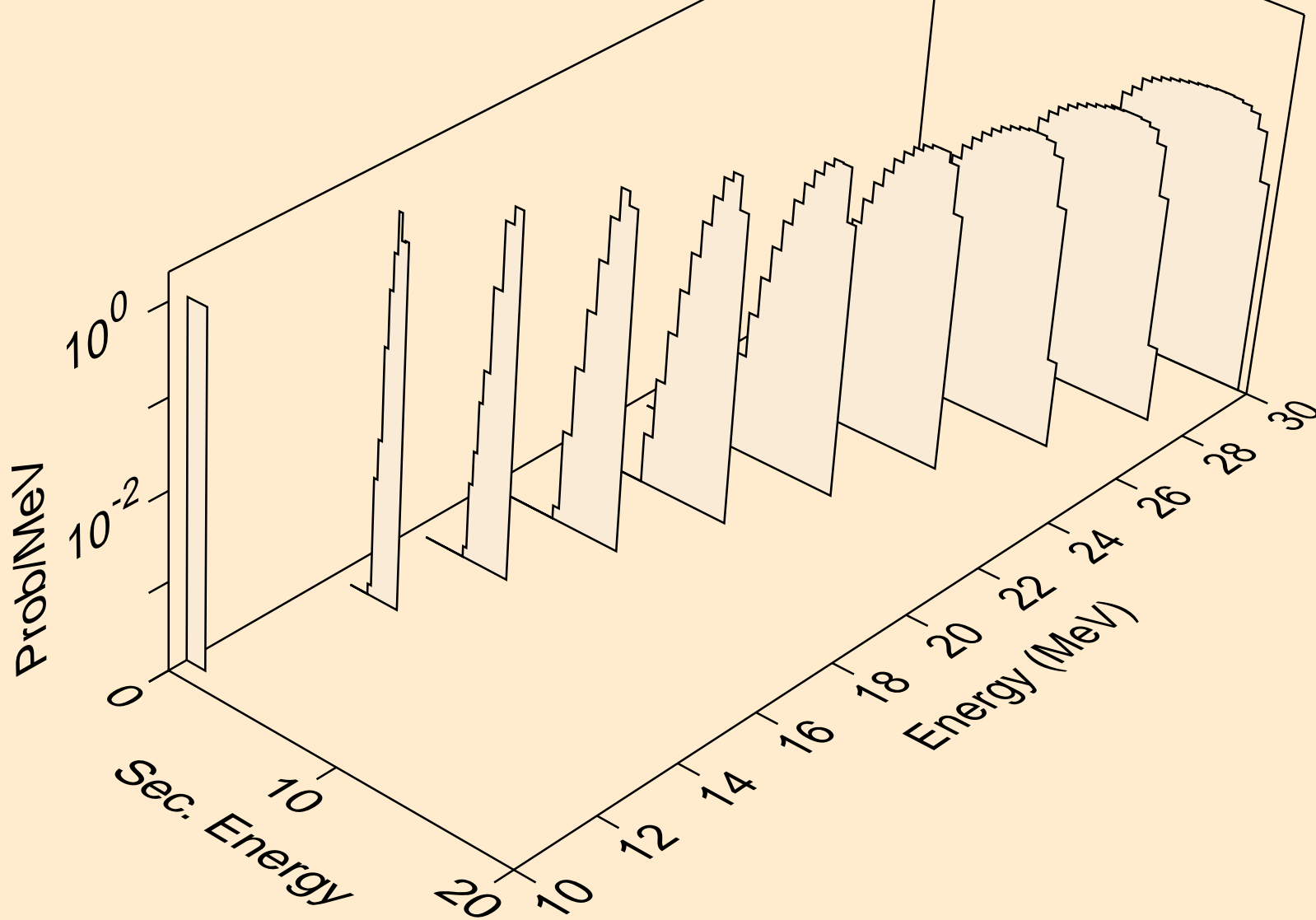
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deuterons from (n,x)



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deuterons from (n,2nd)

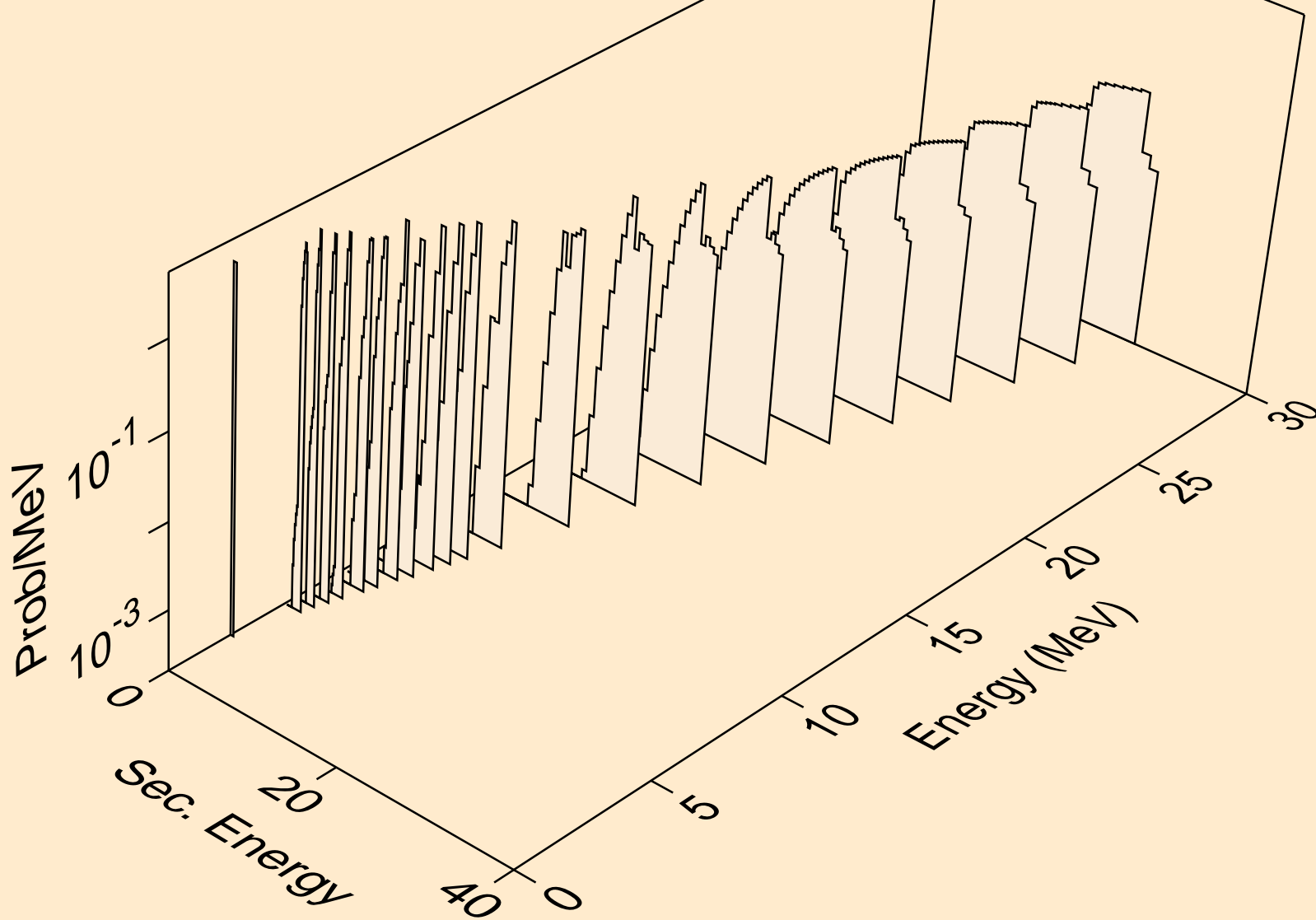


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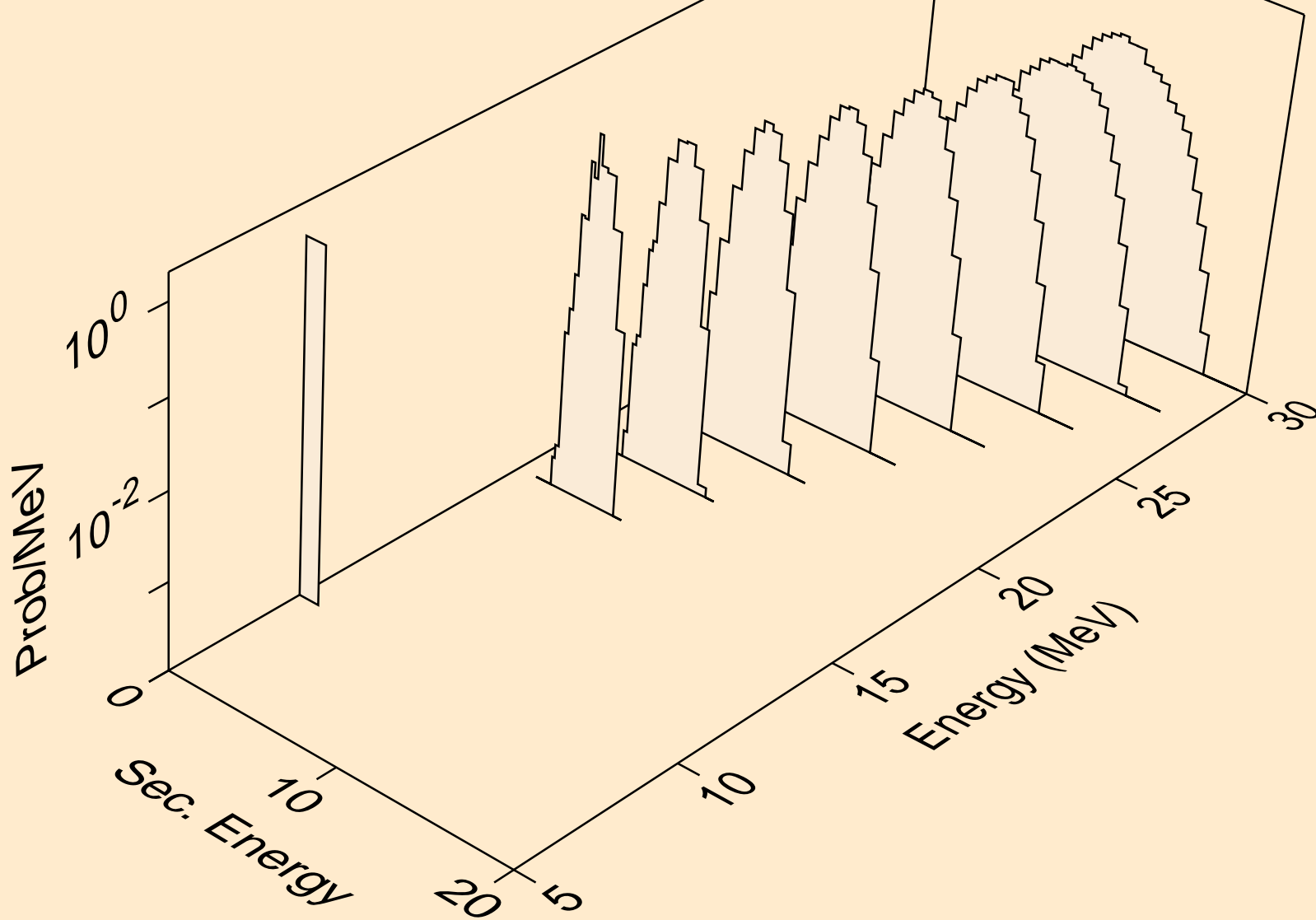




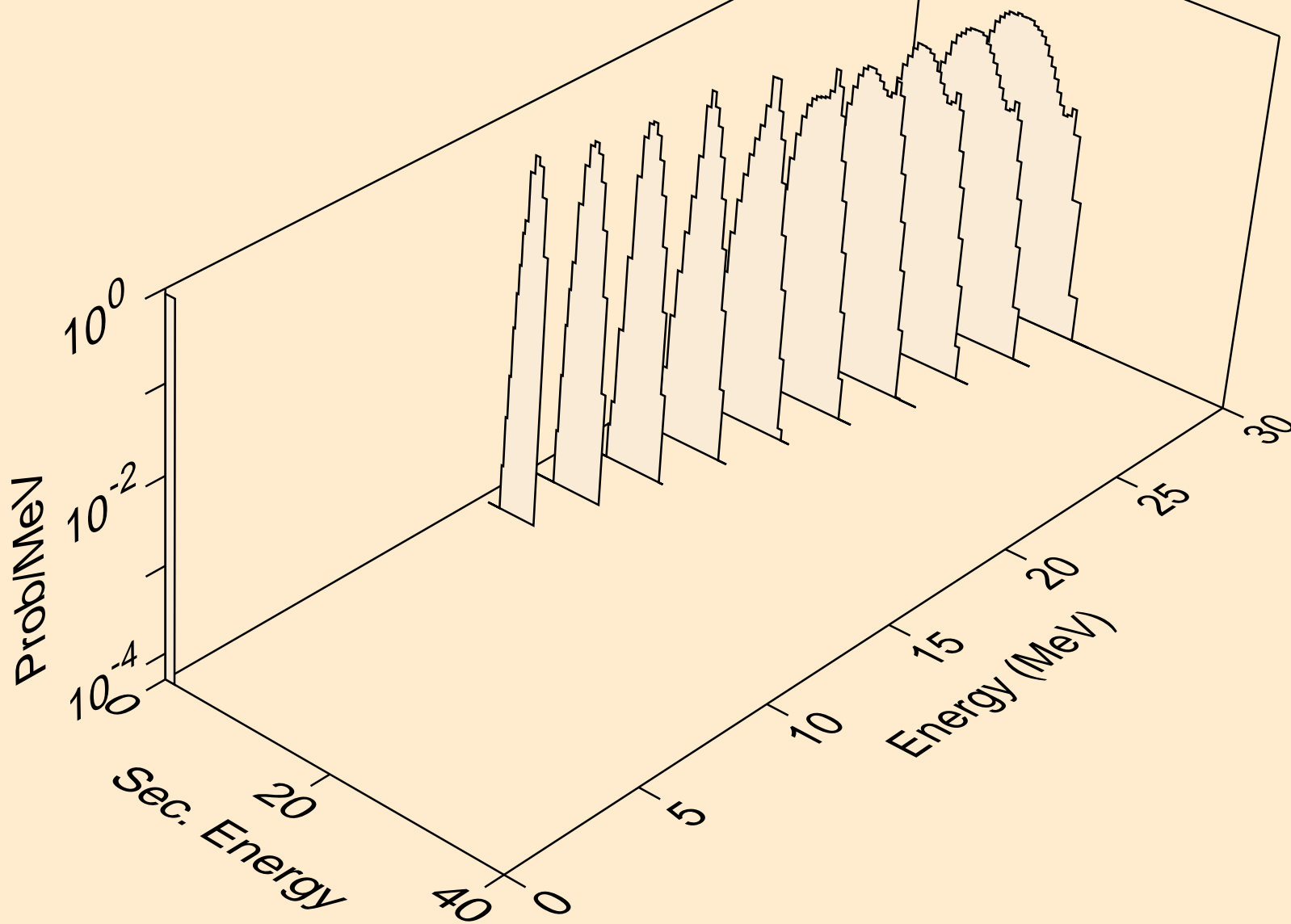
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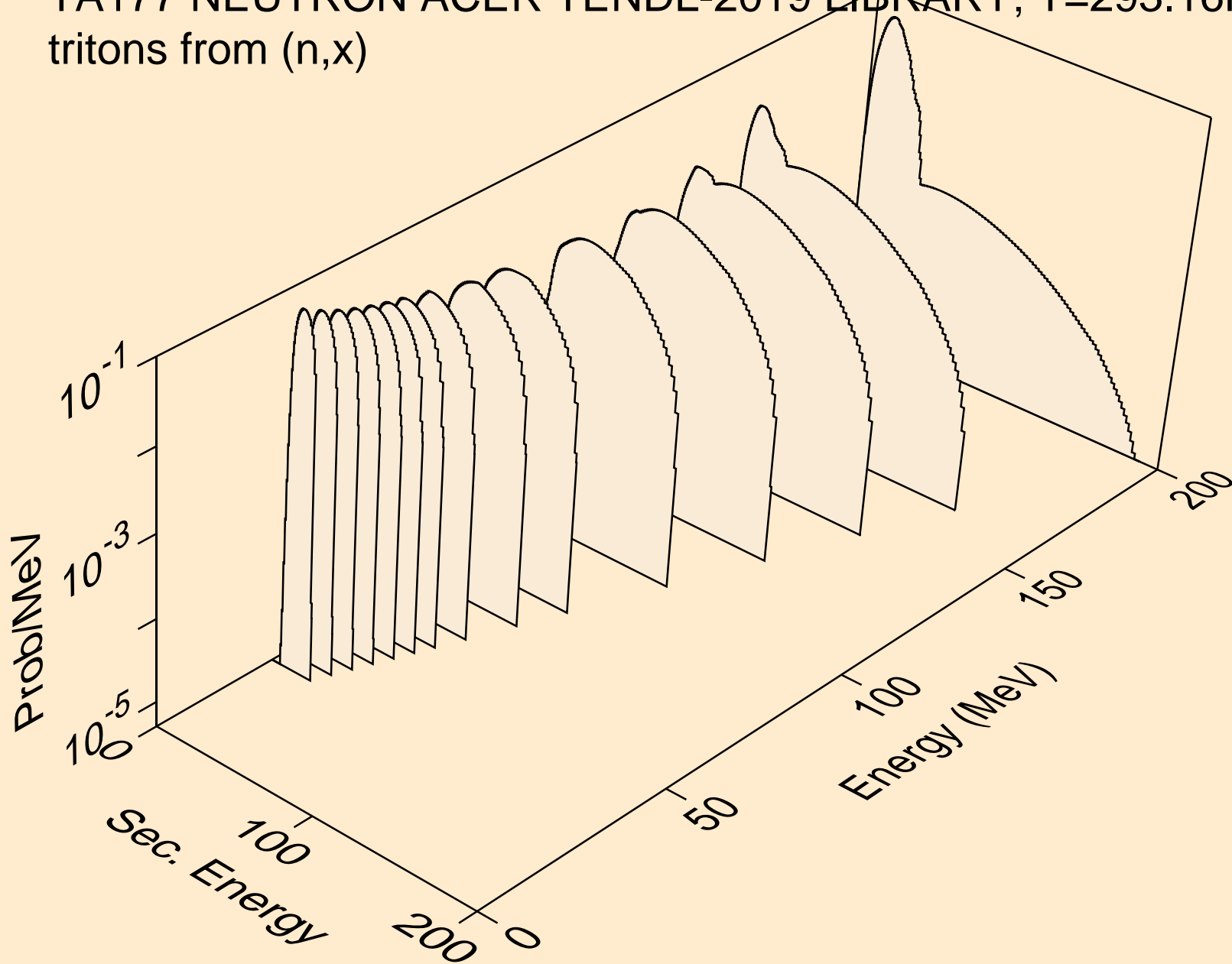
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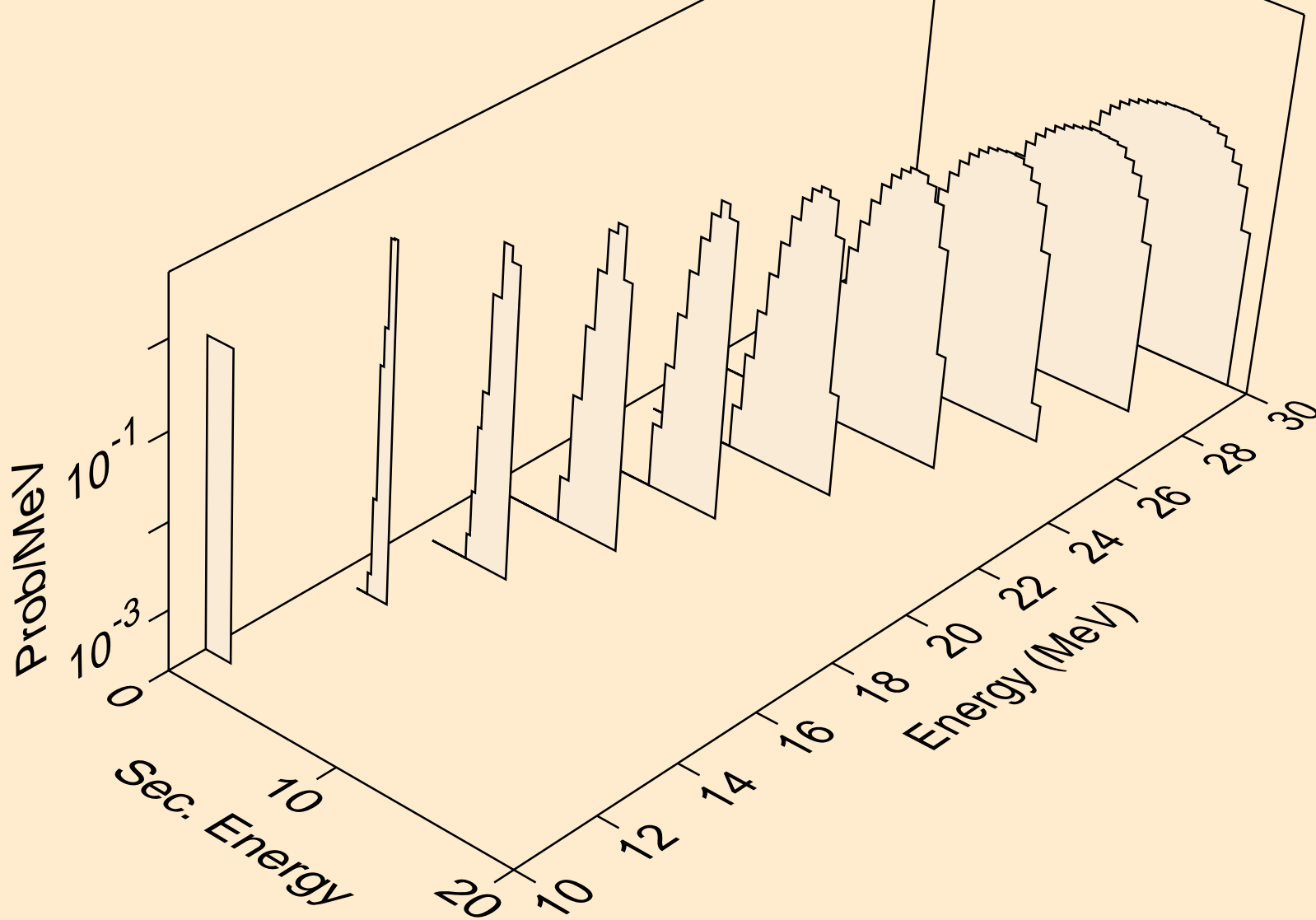
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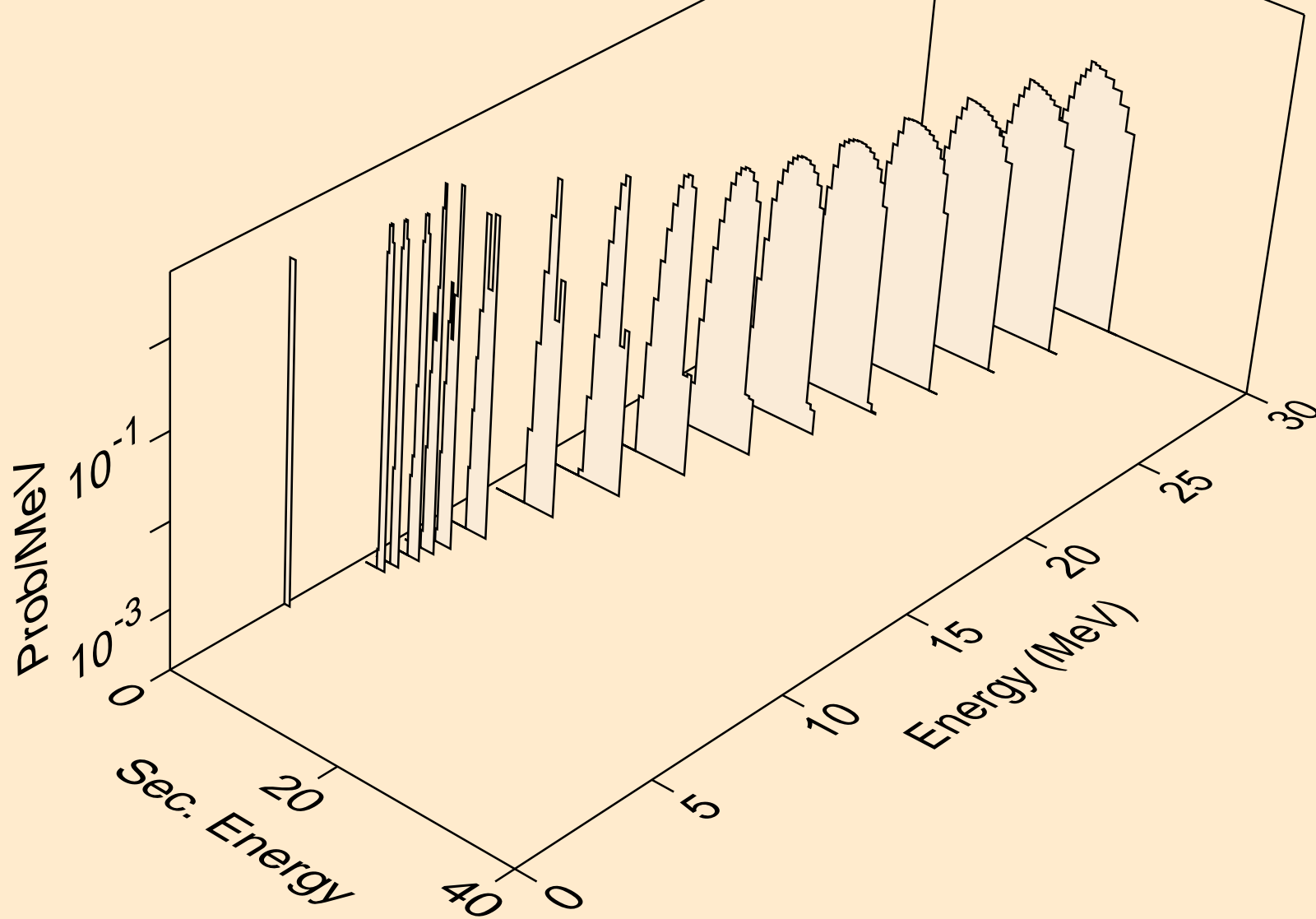
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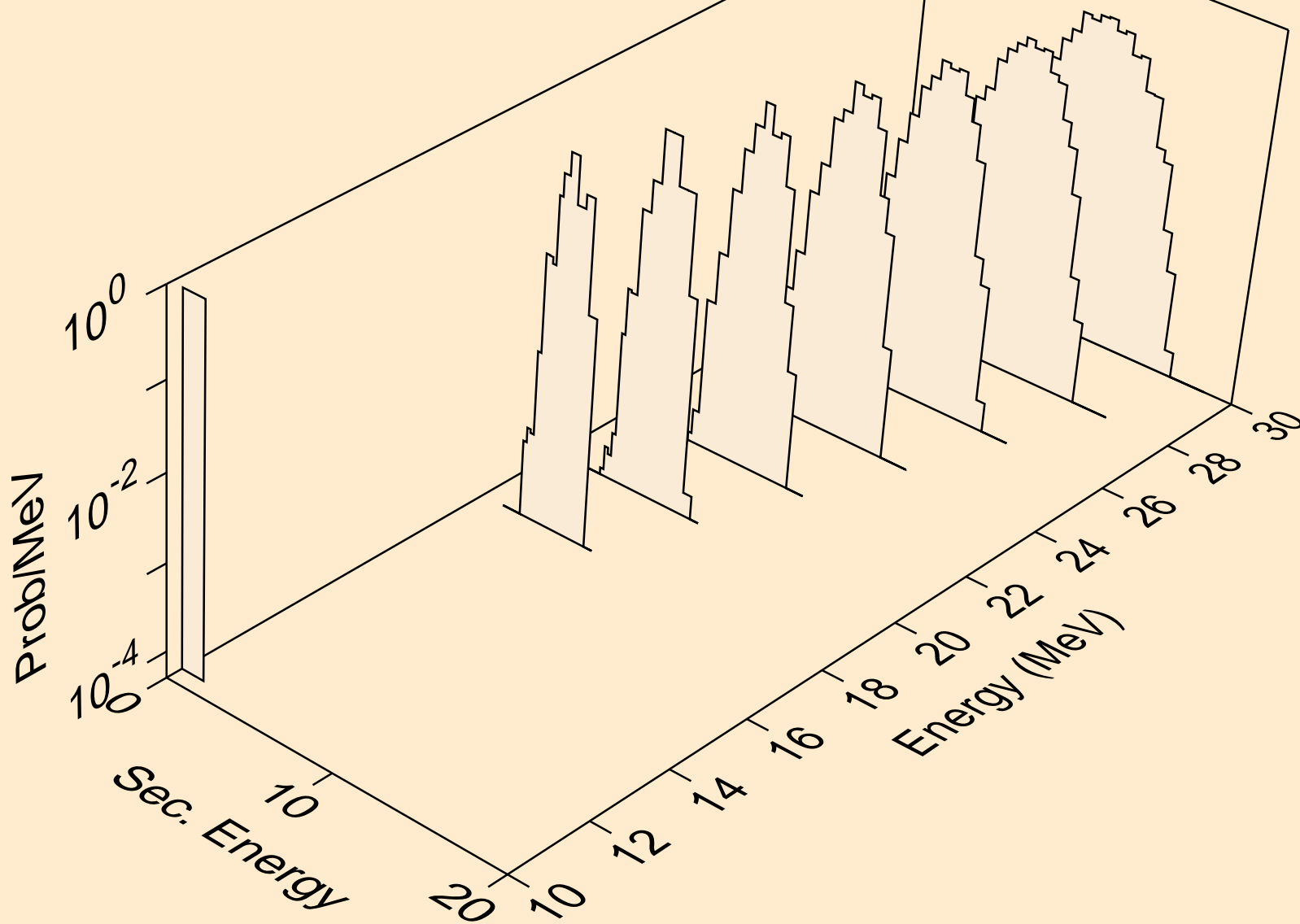
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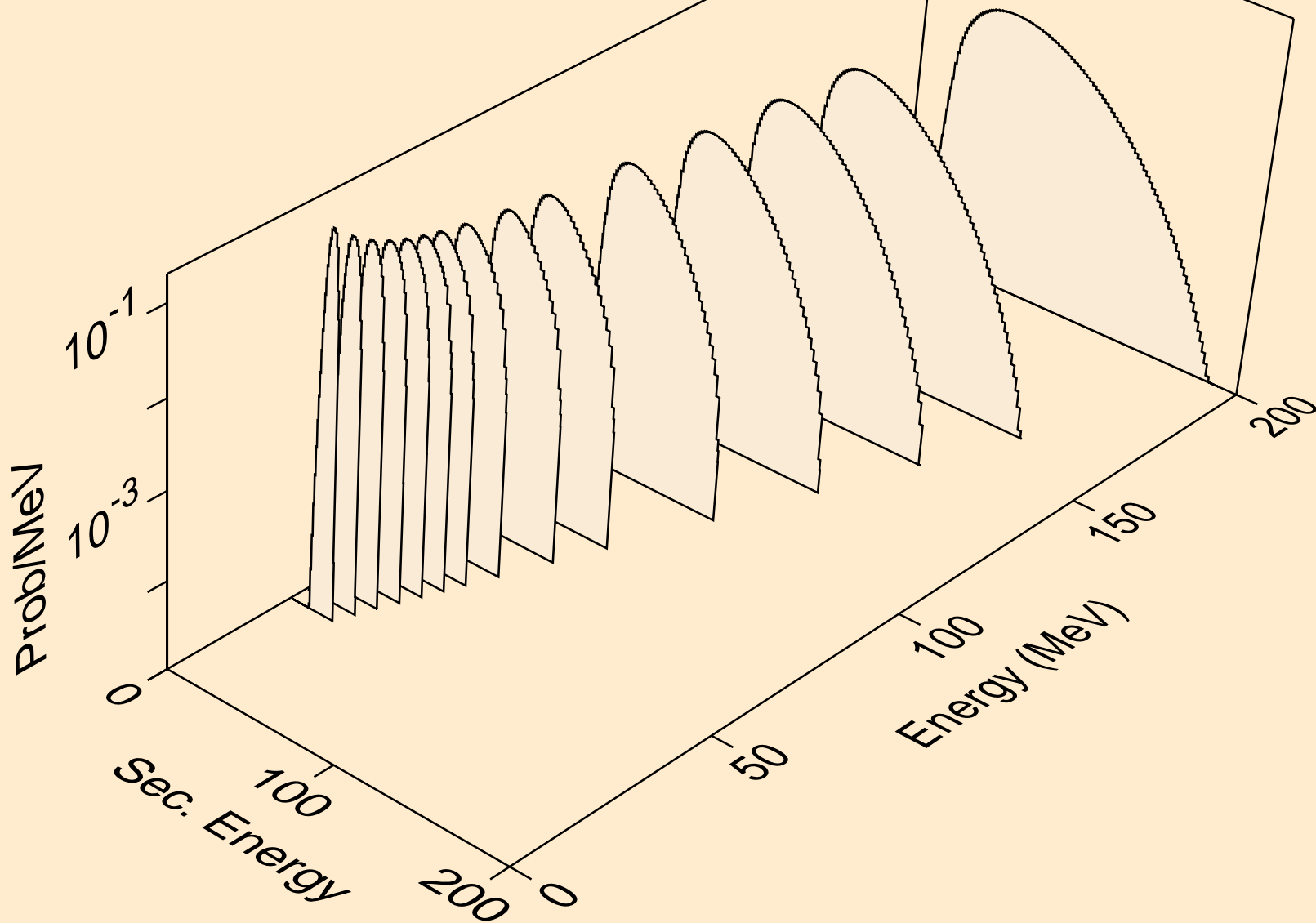
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tritons from (n,t)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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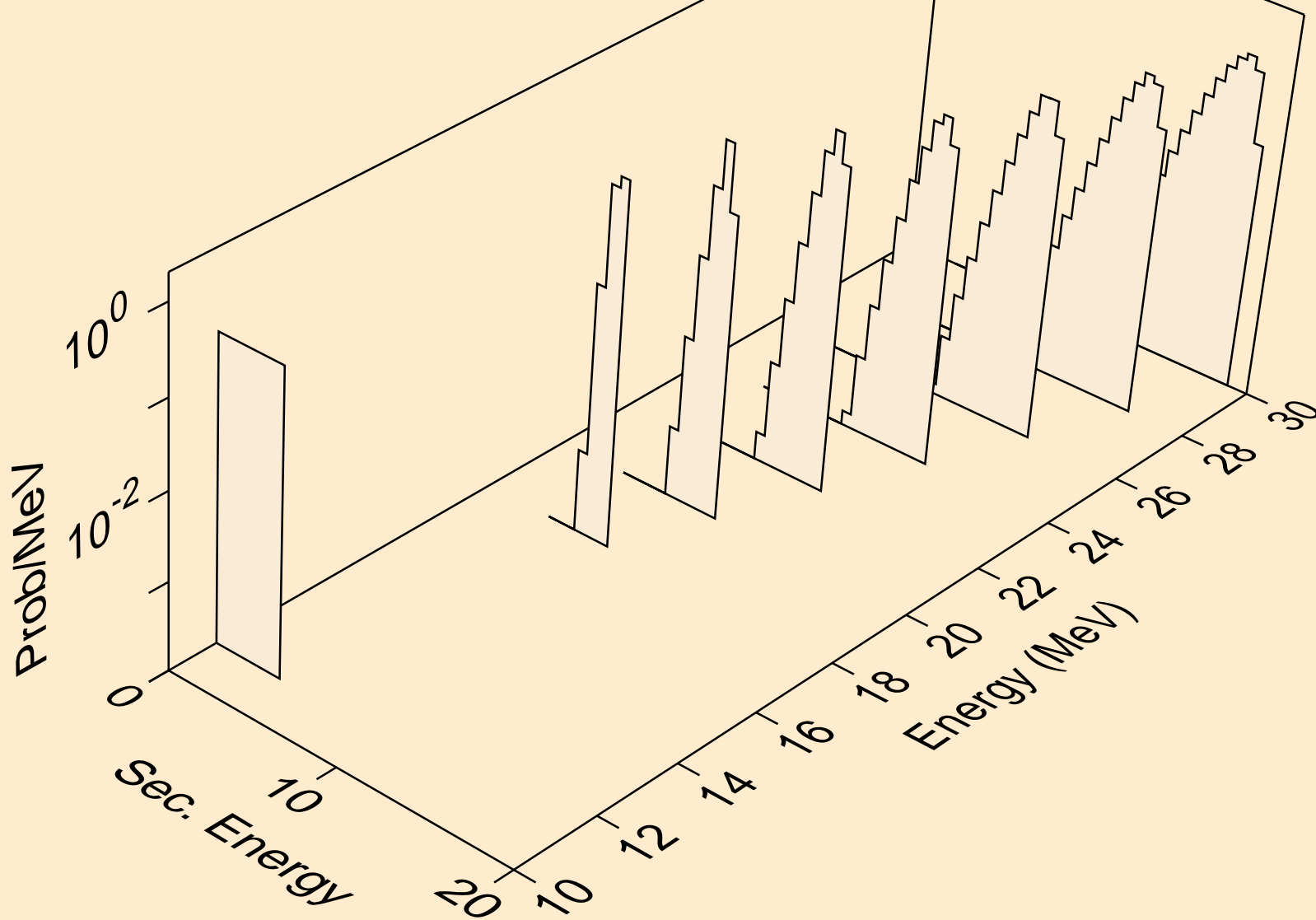


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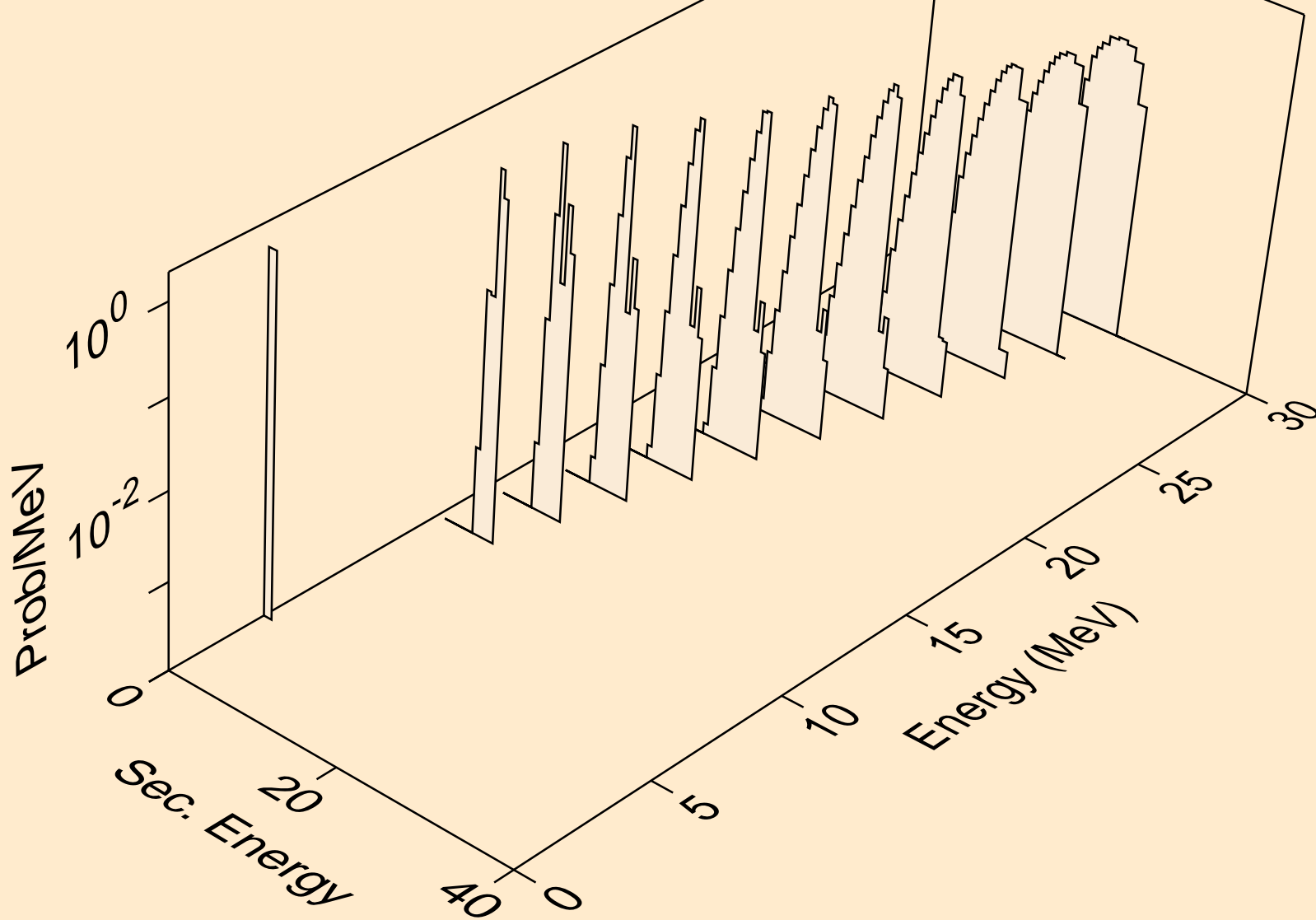




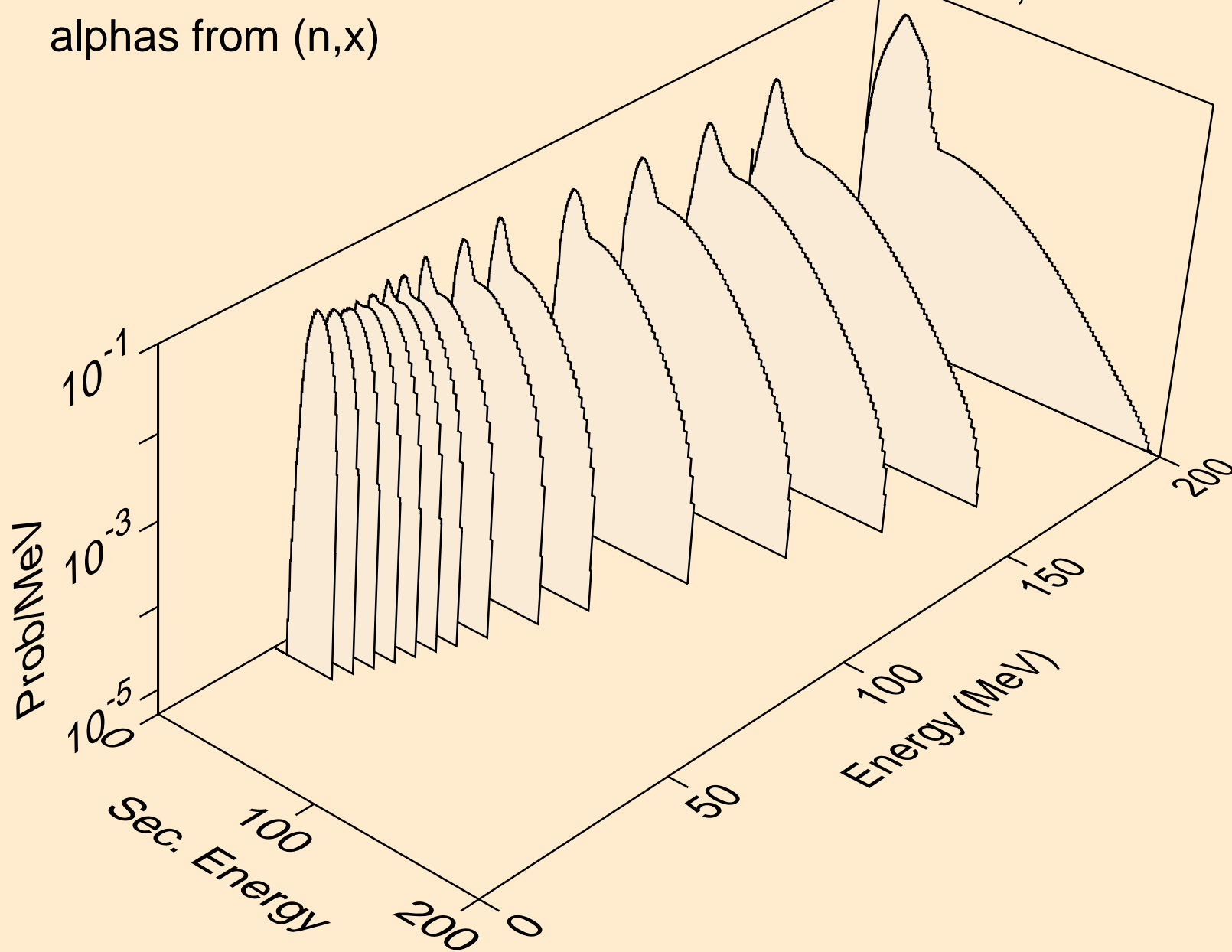
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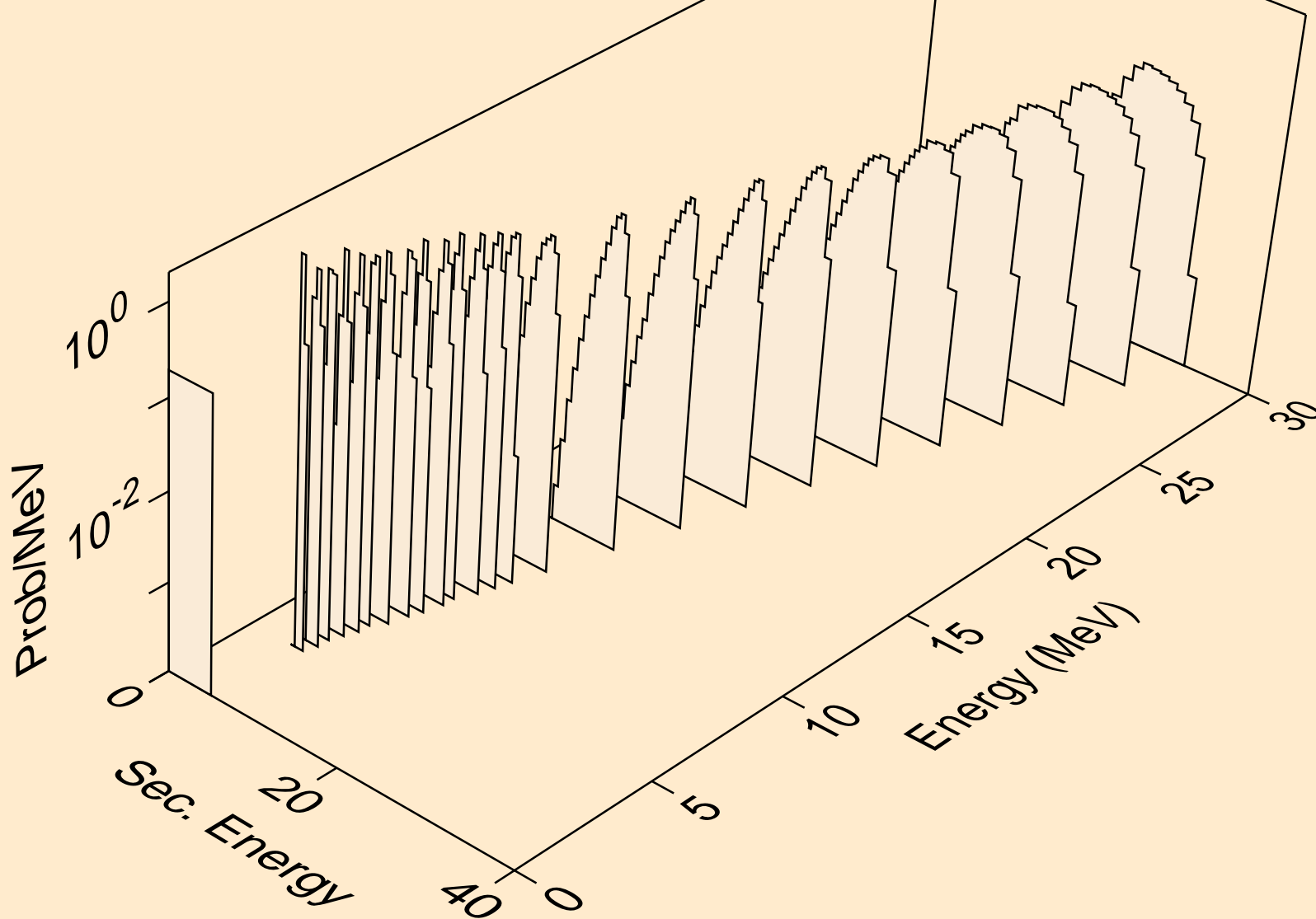
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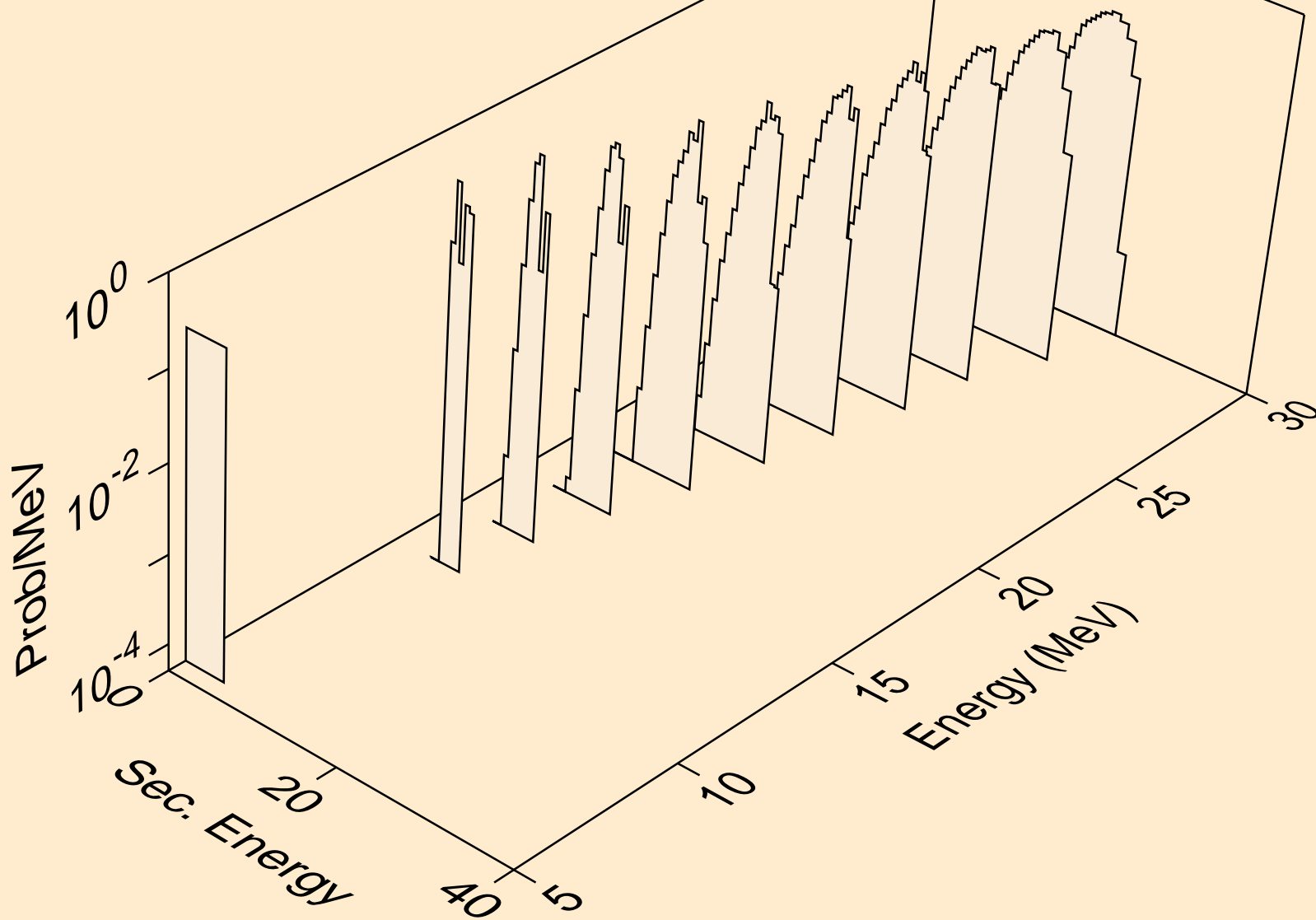
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alphas from (n,x)



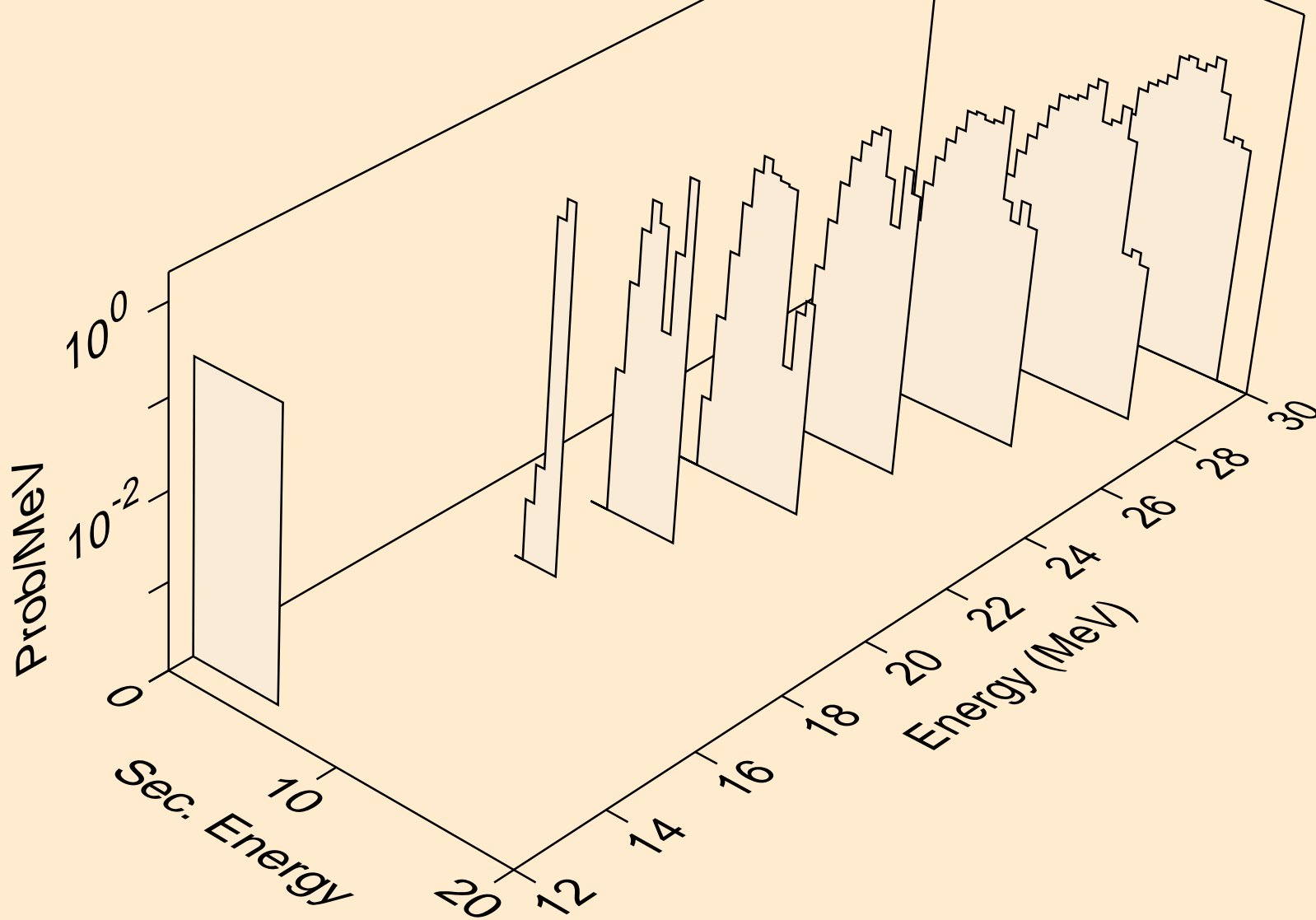
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alphas from (n,n\*)a



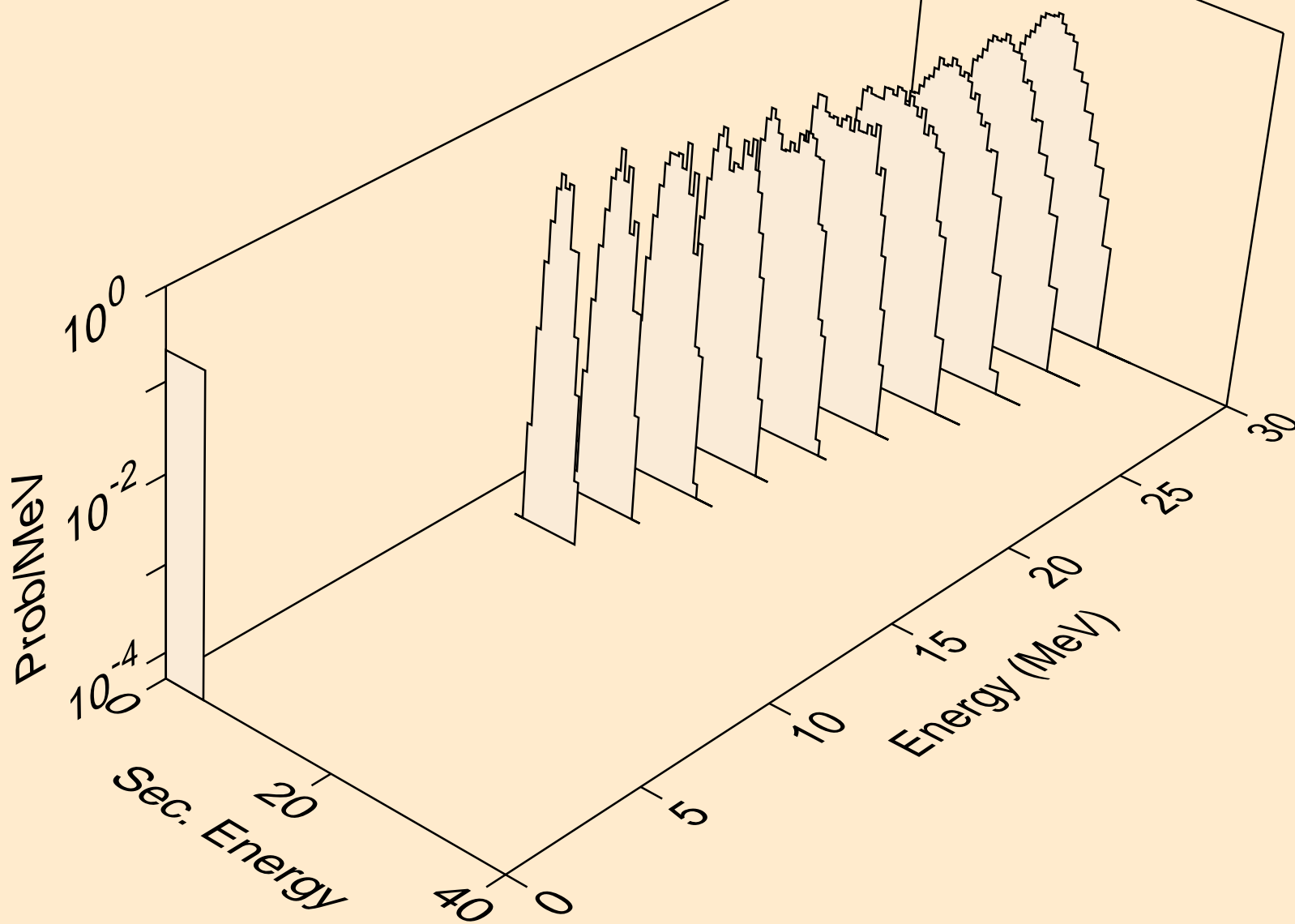
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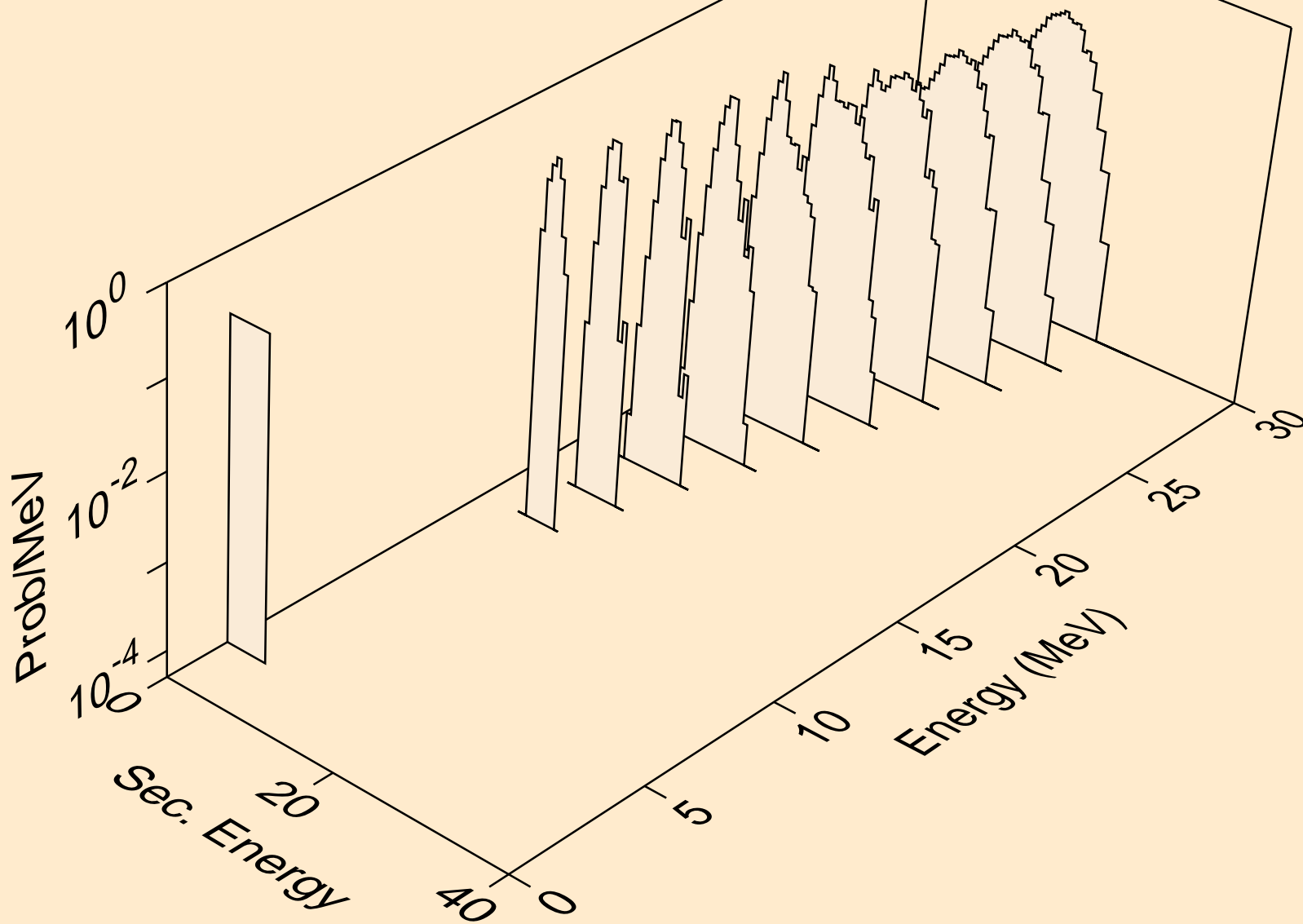
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TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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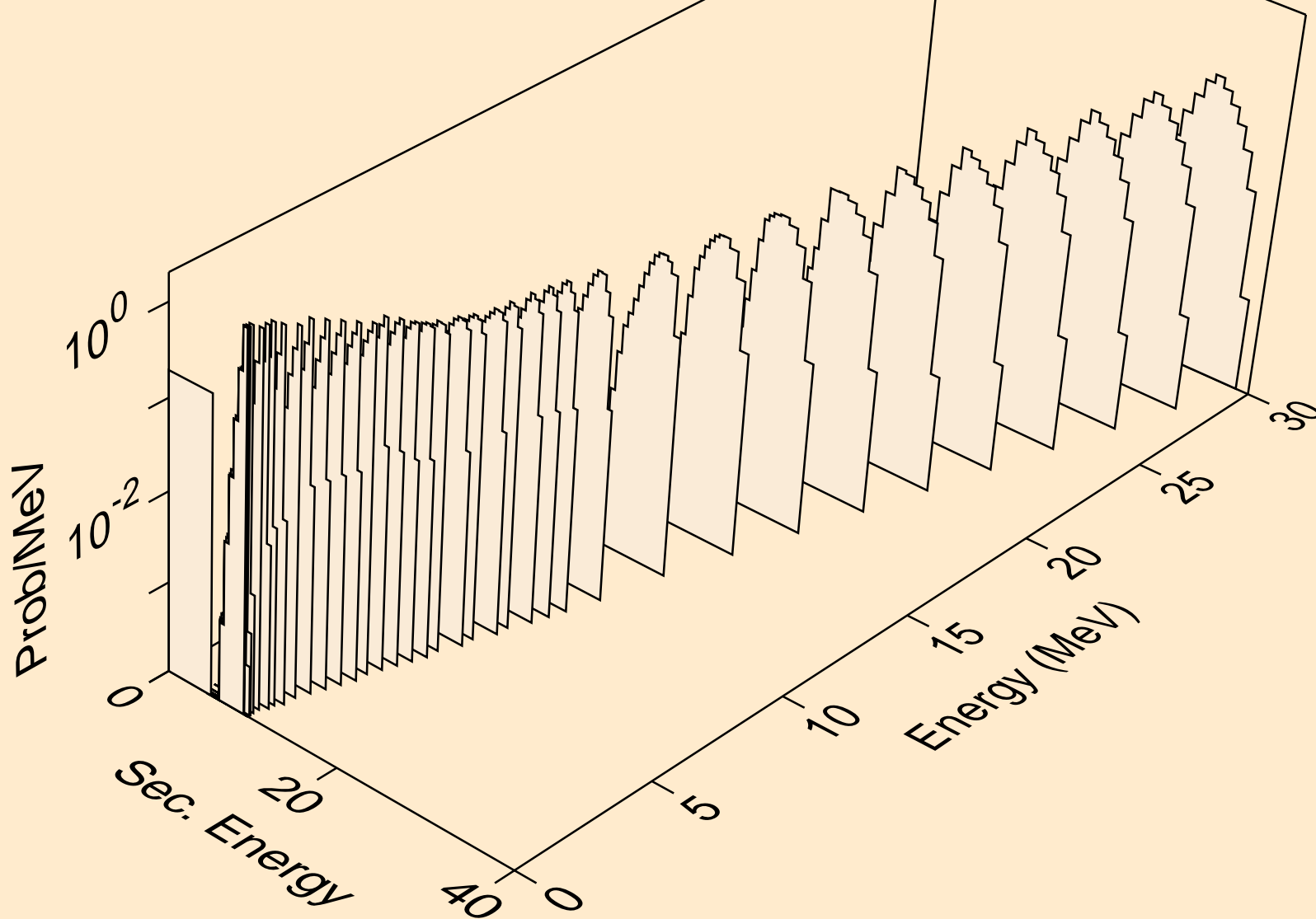


TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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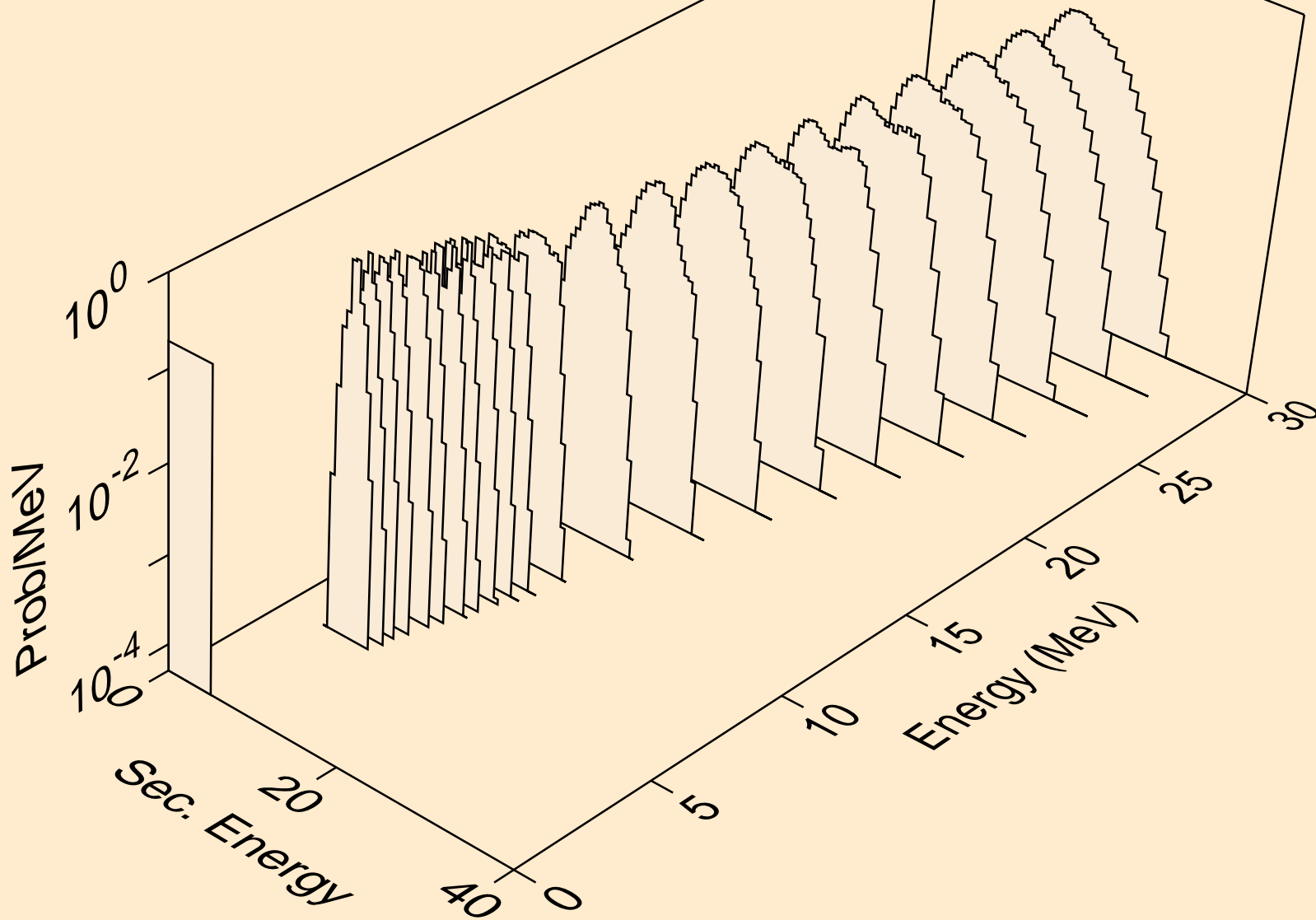




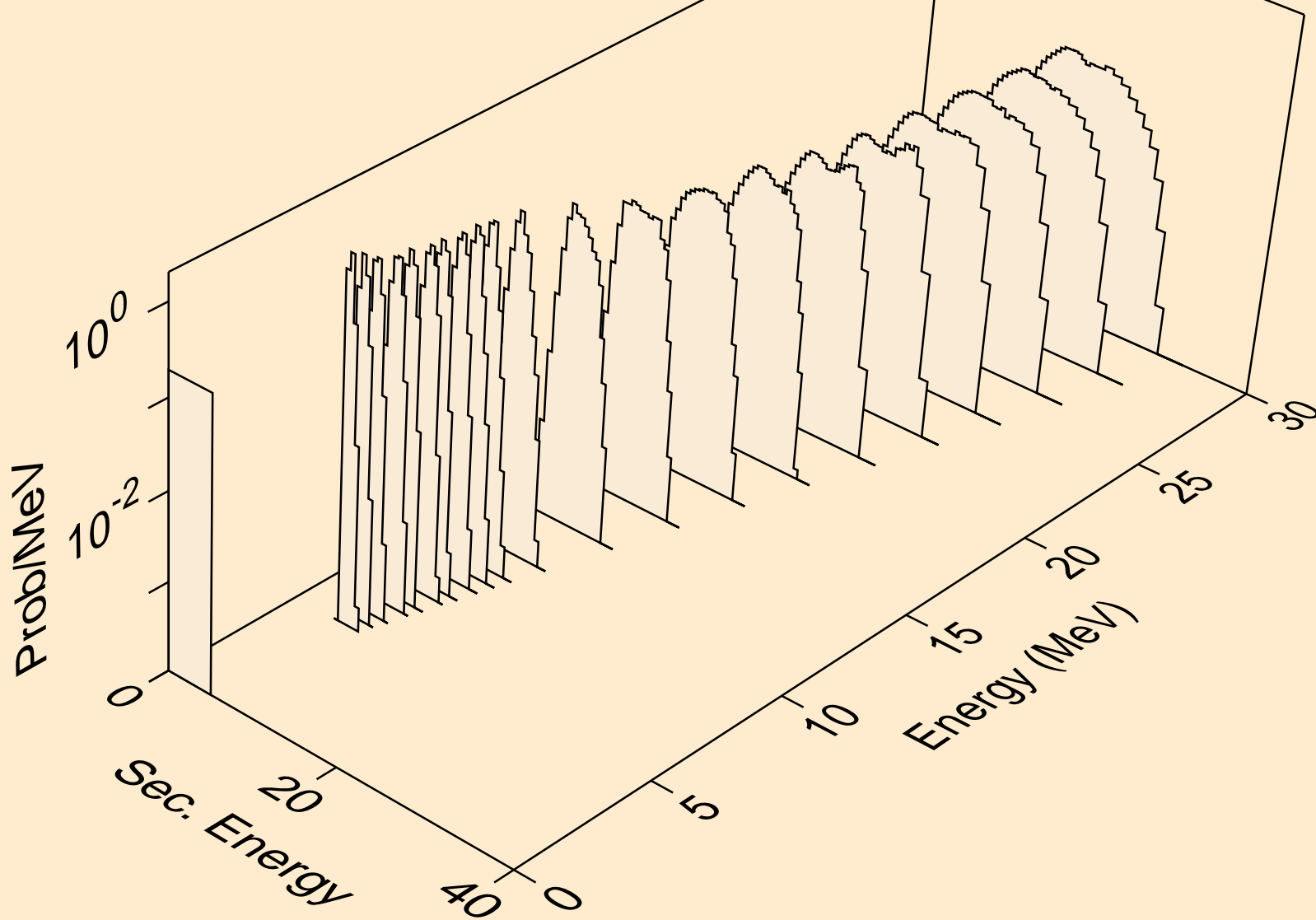
TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



TA177 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

