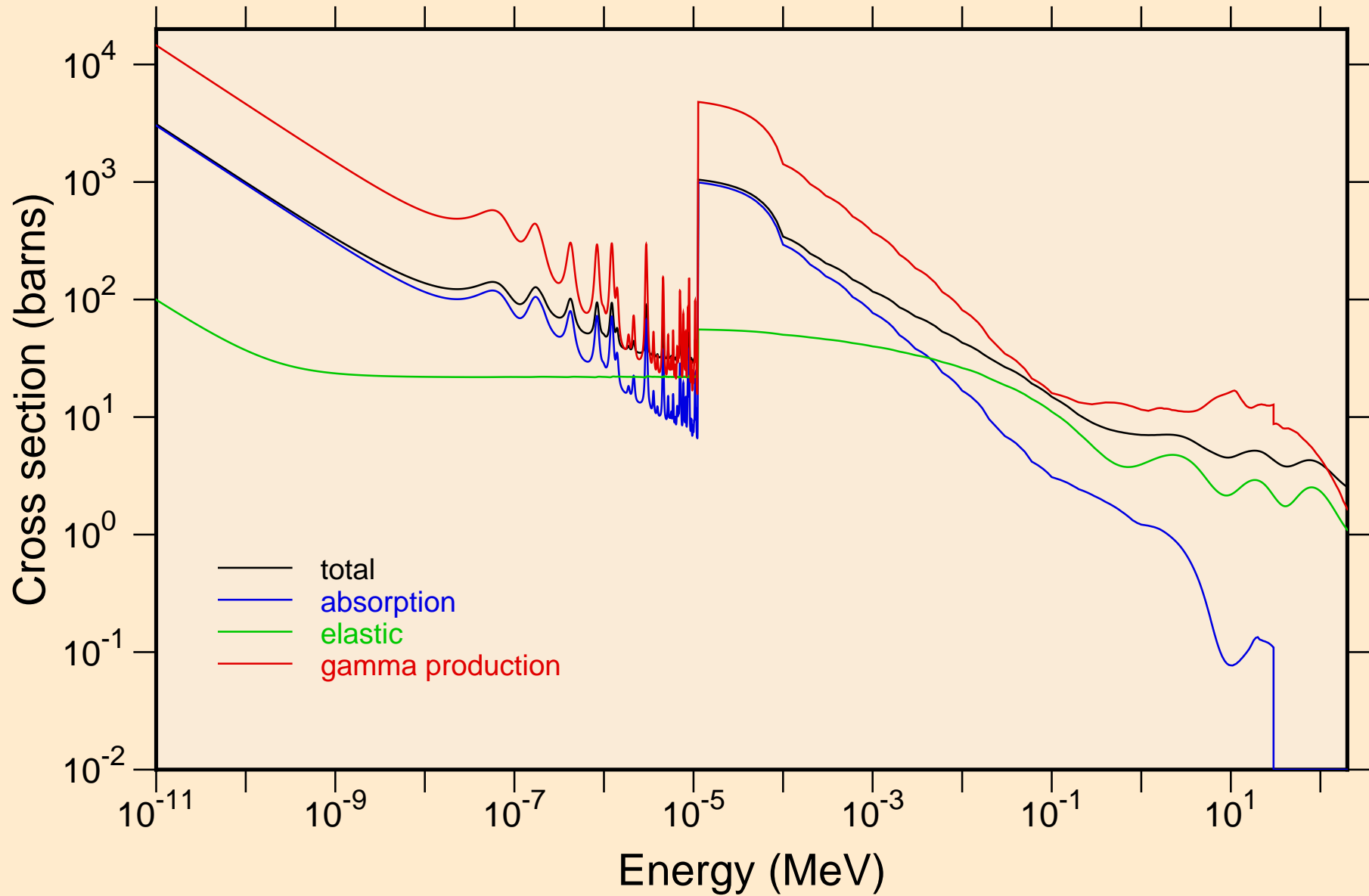
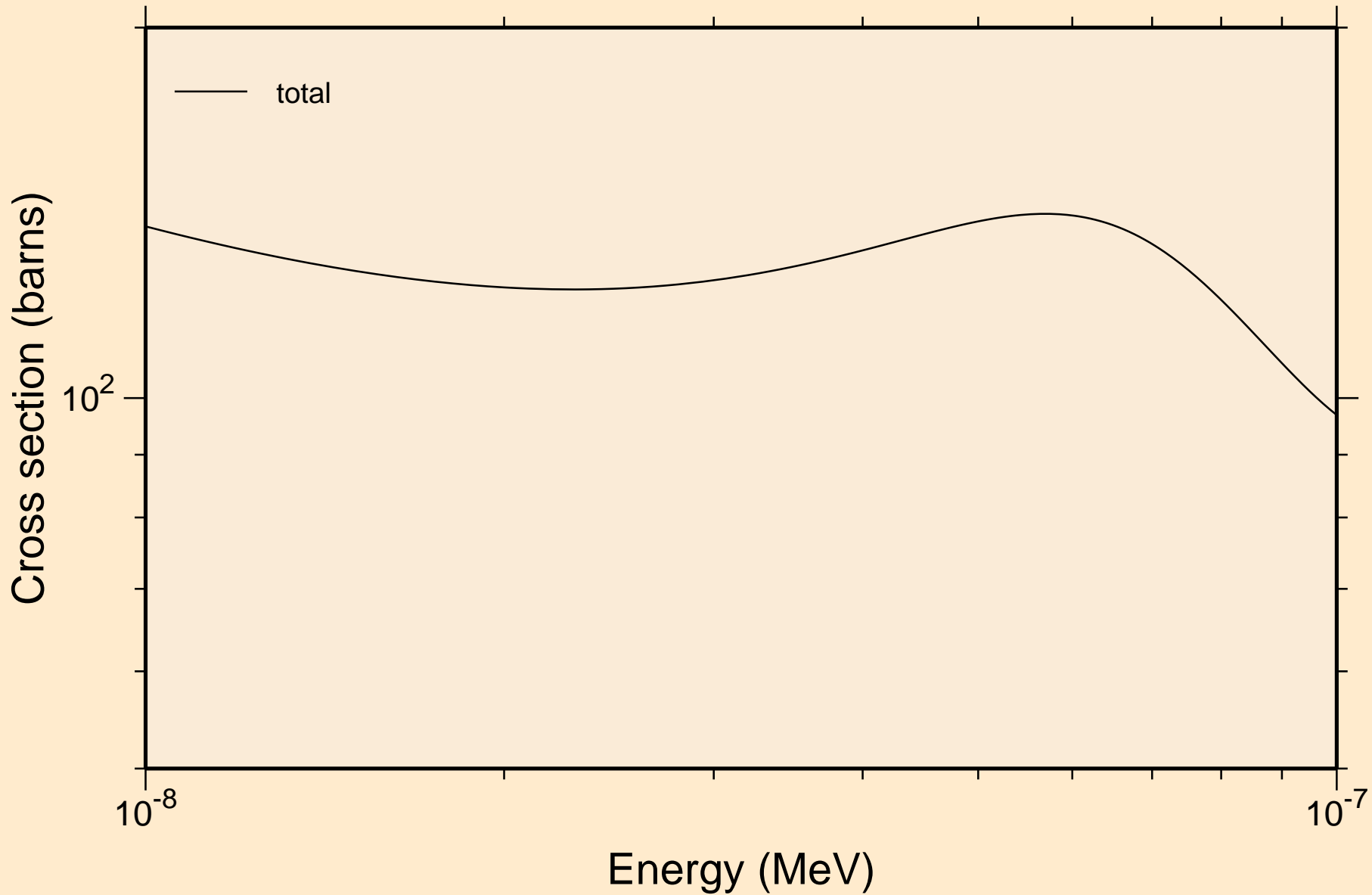


# LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

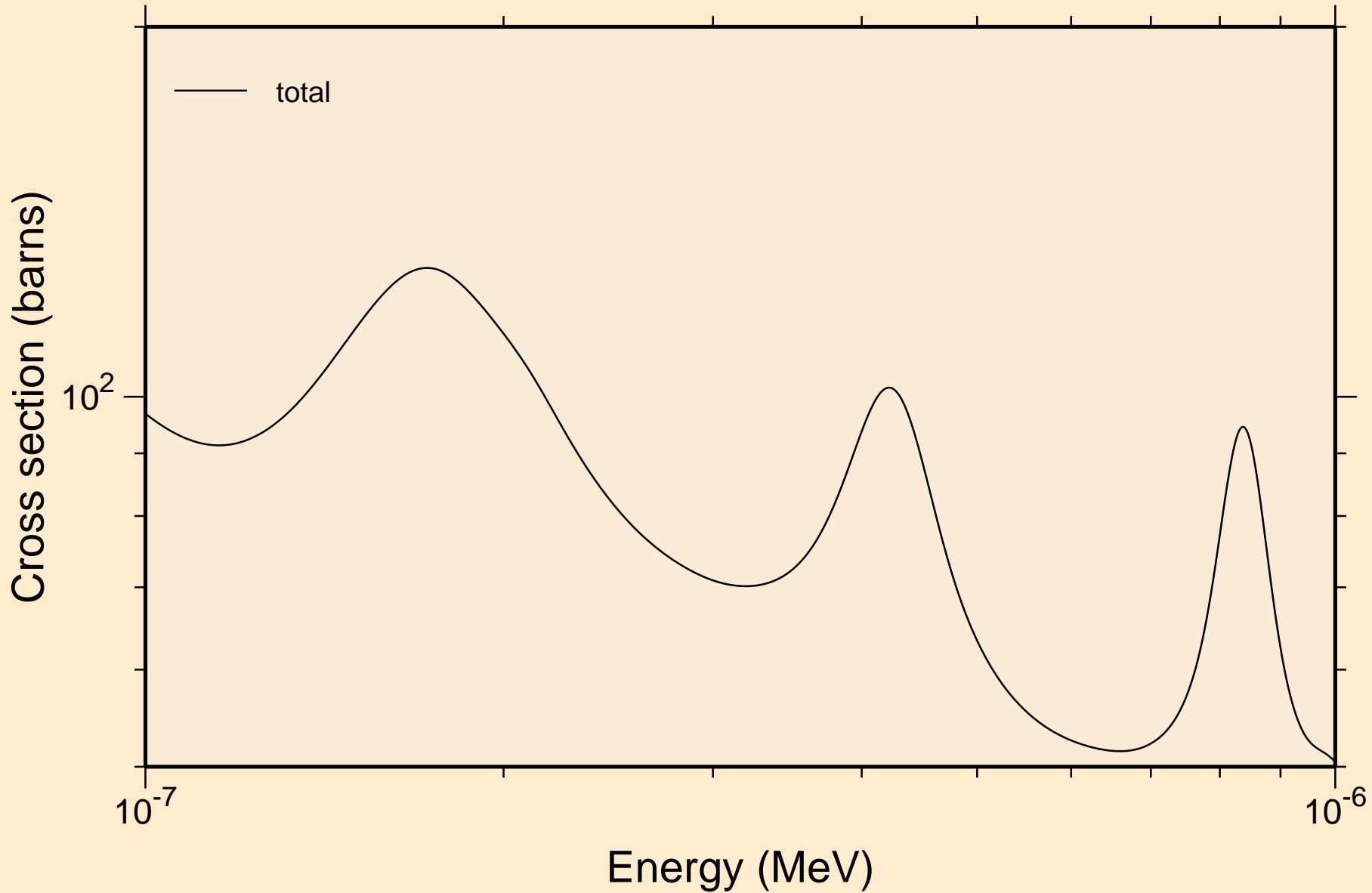
## Principal cross sections



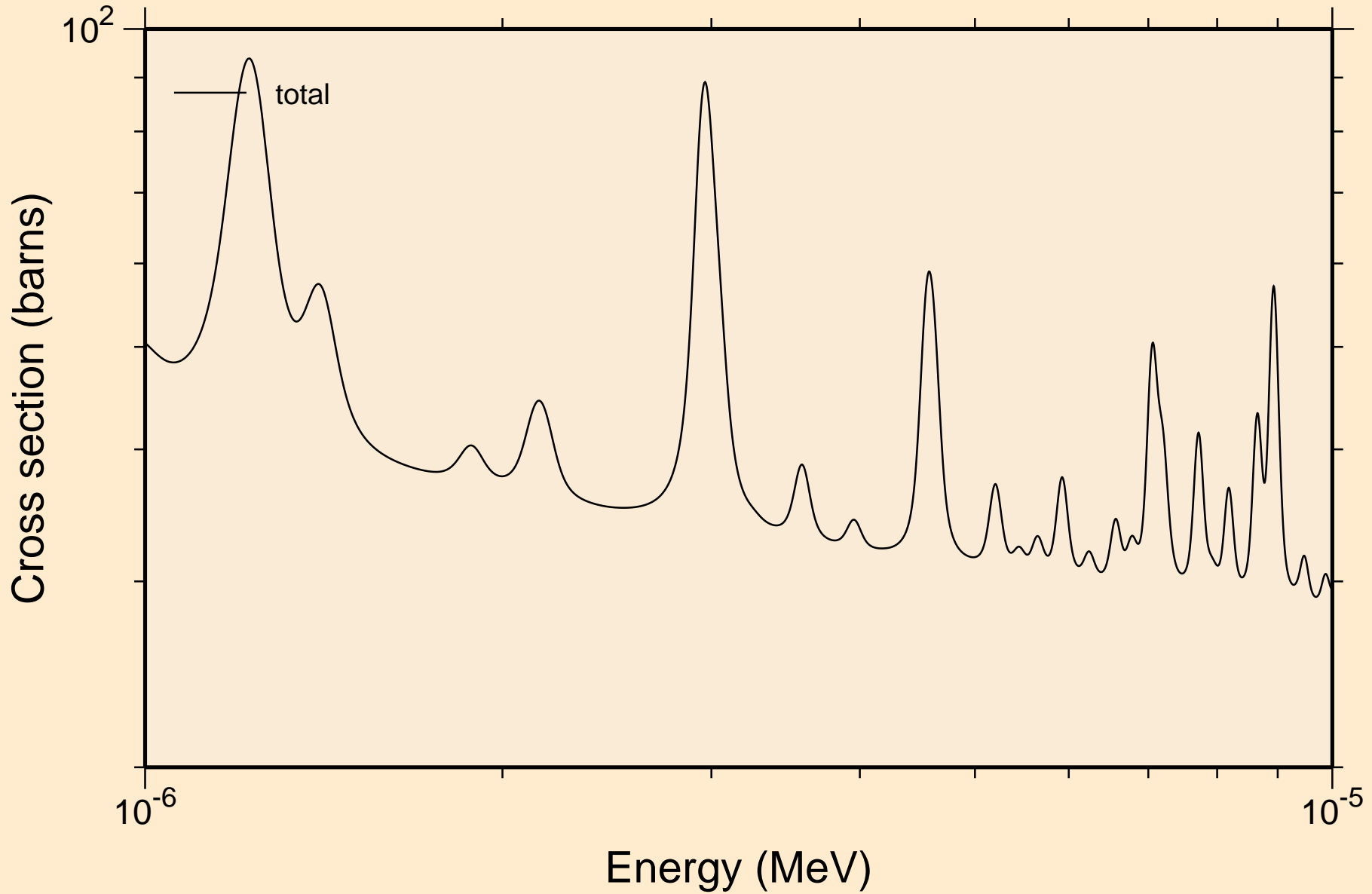
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resonance total cross section



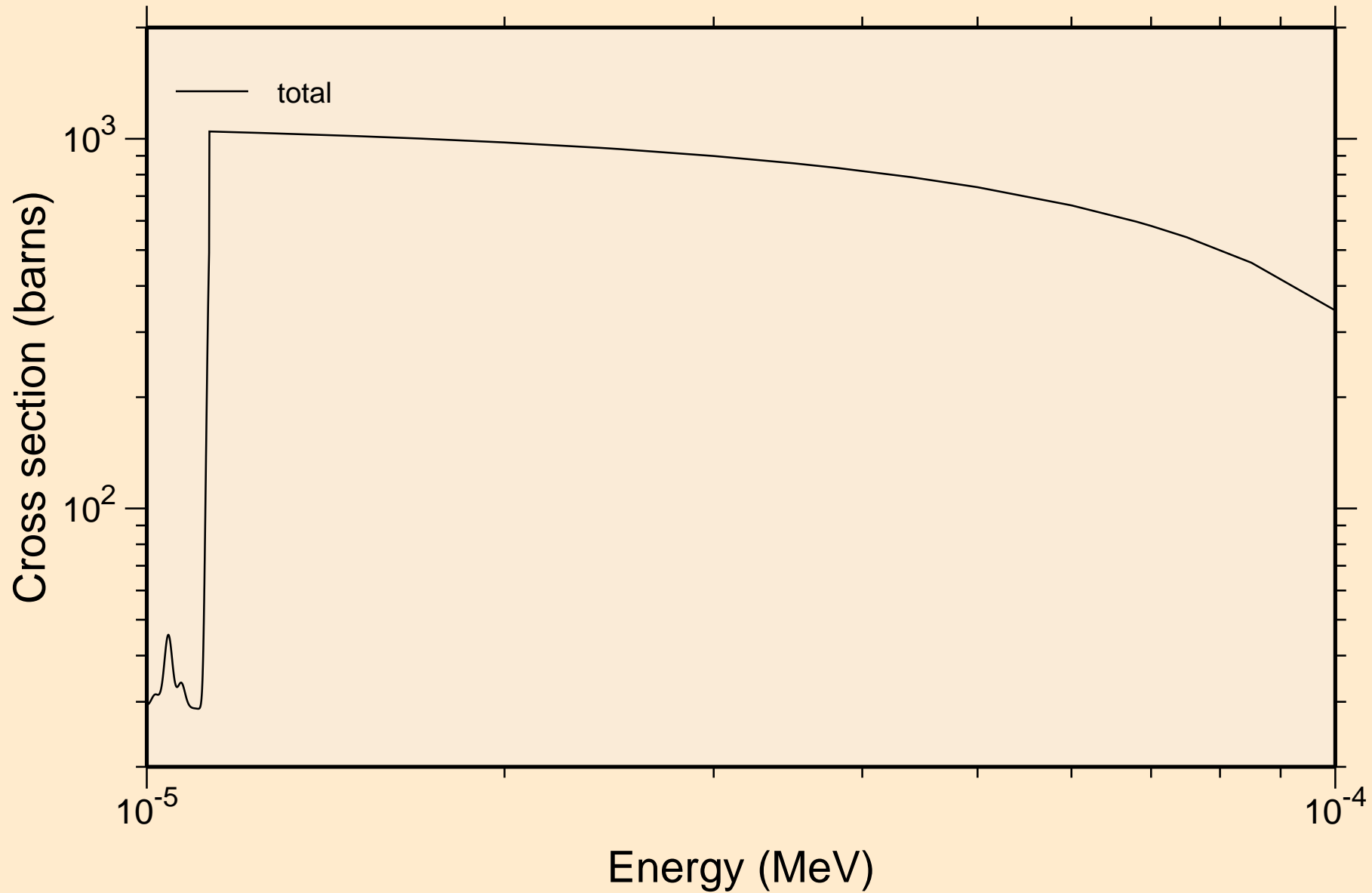
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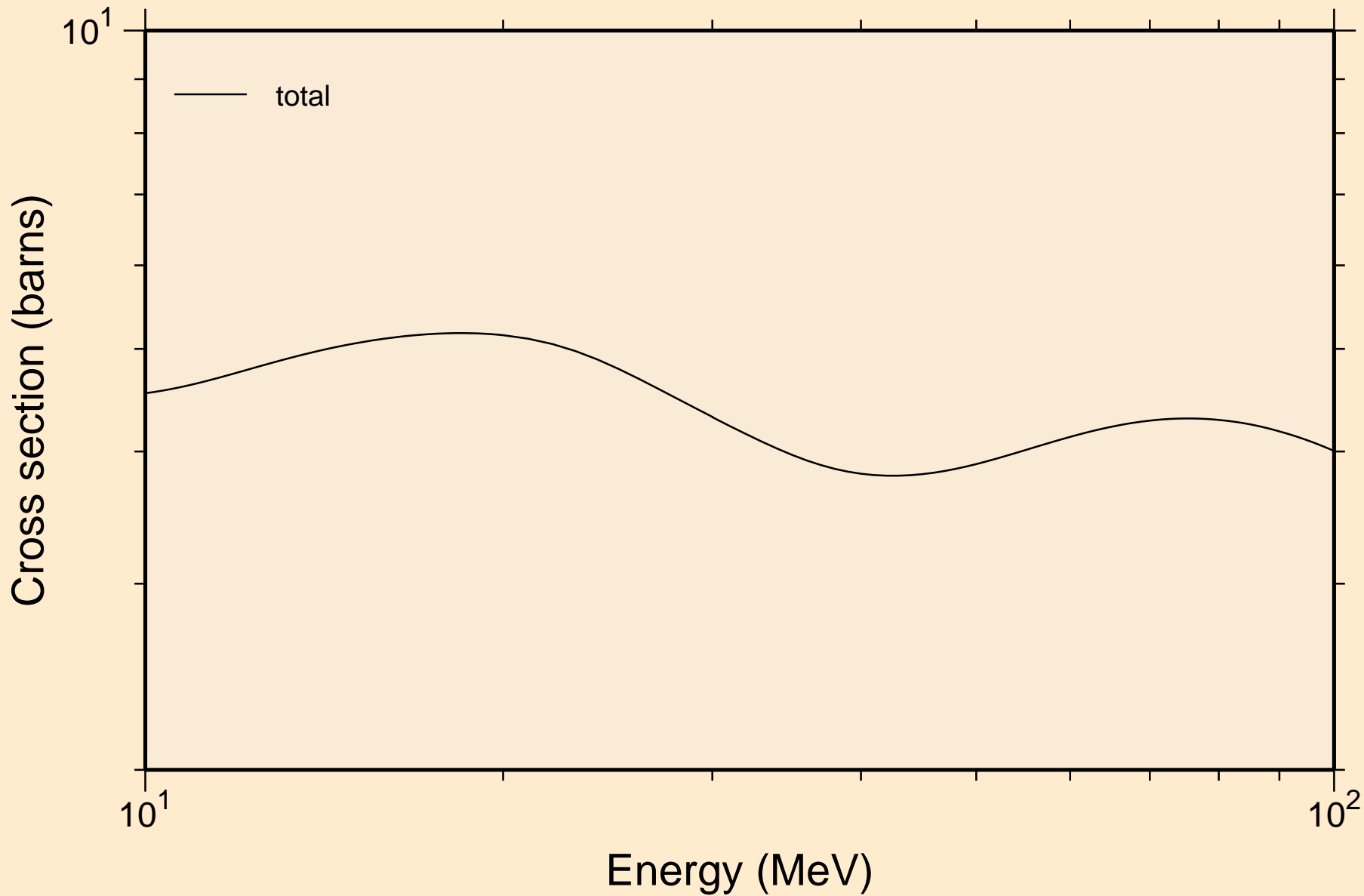
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



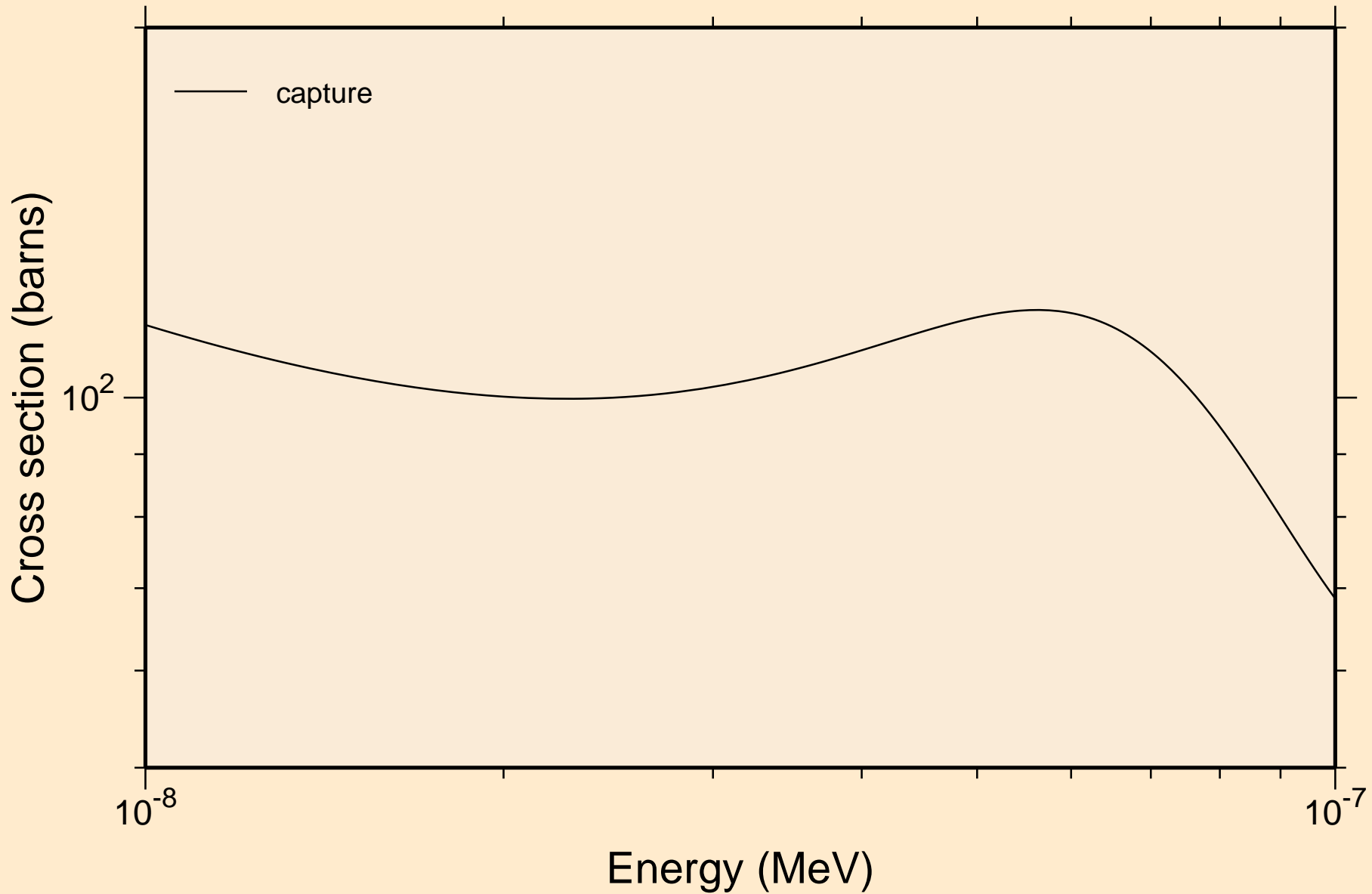
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



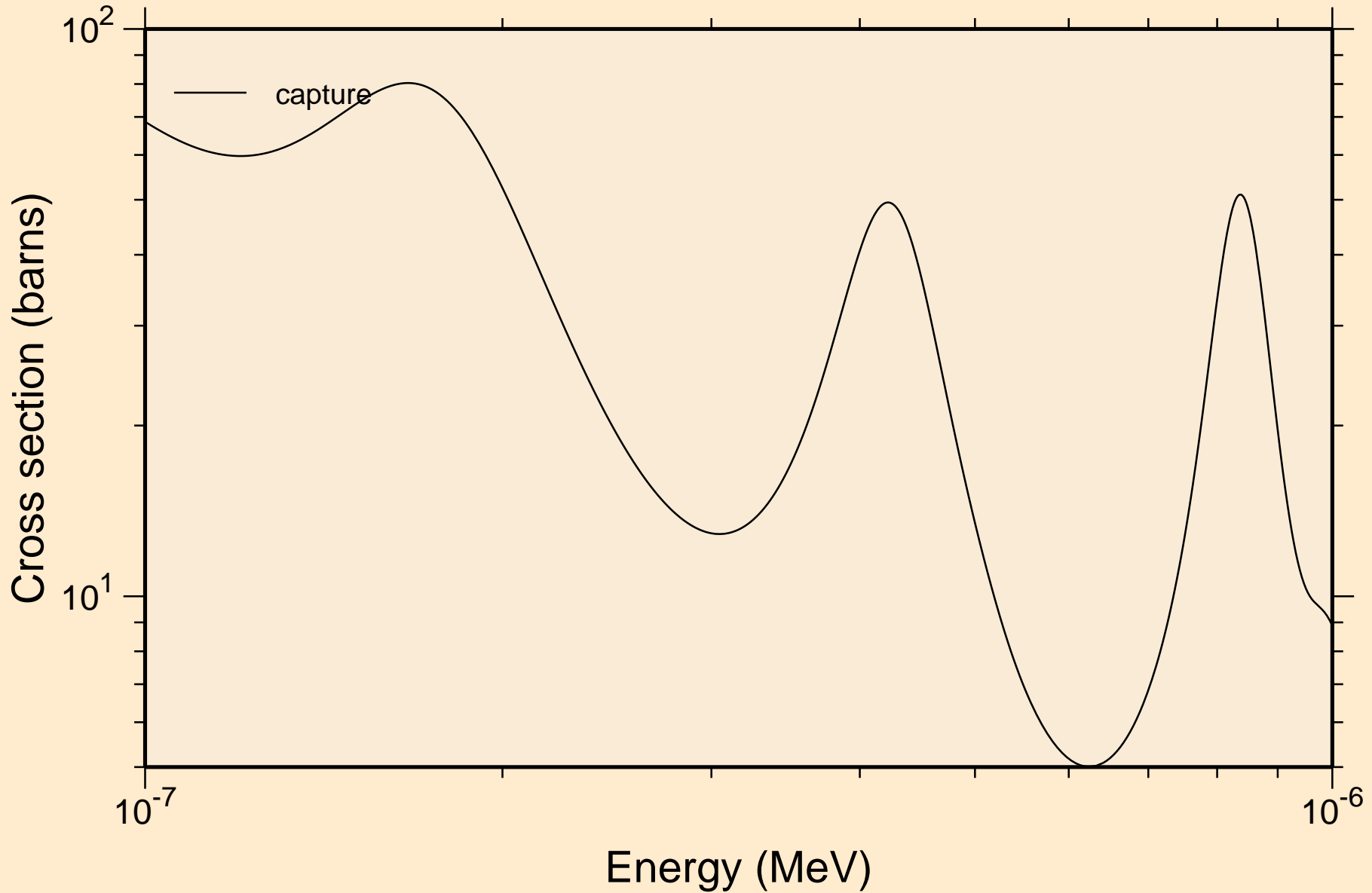
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

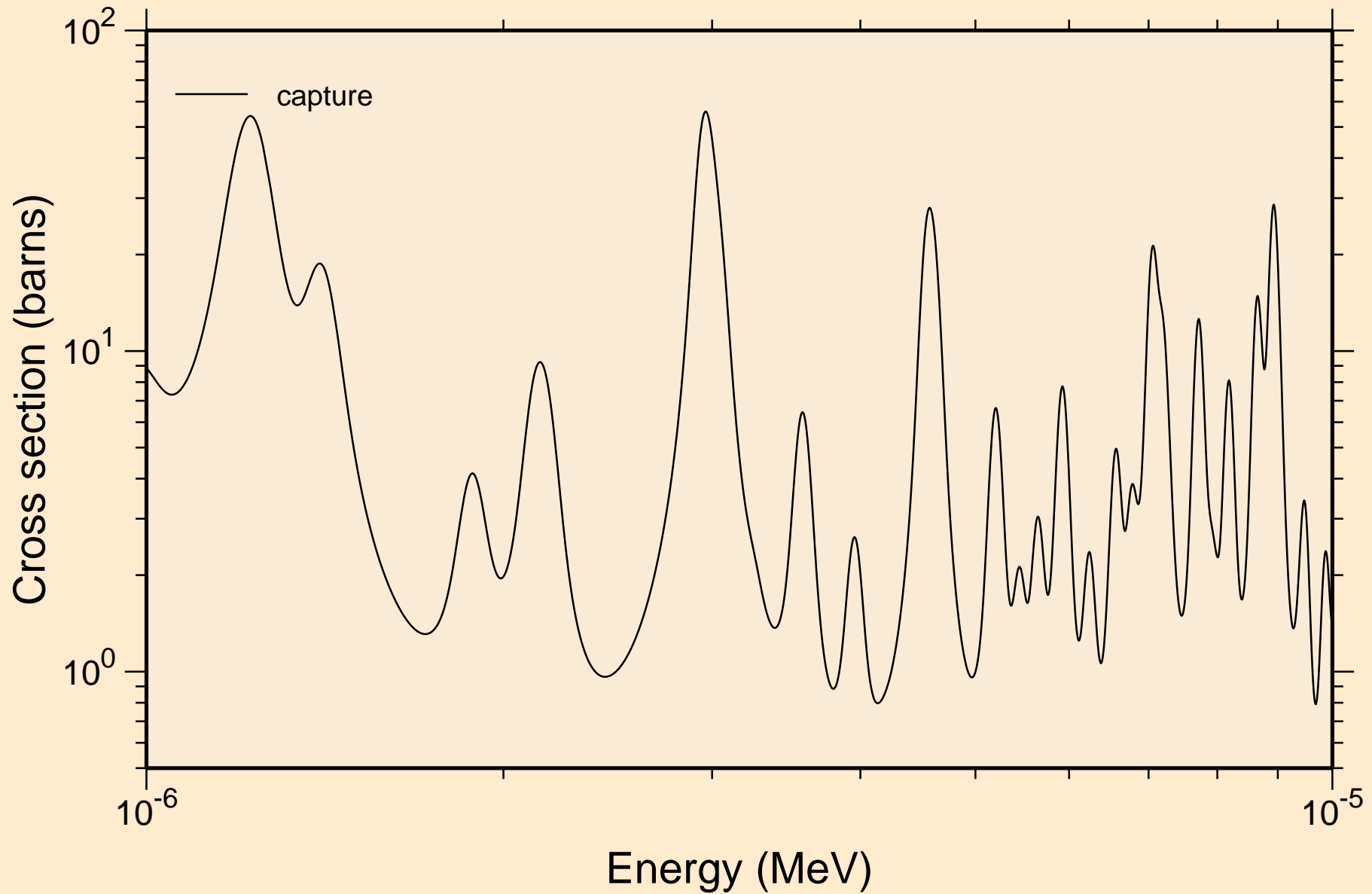


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

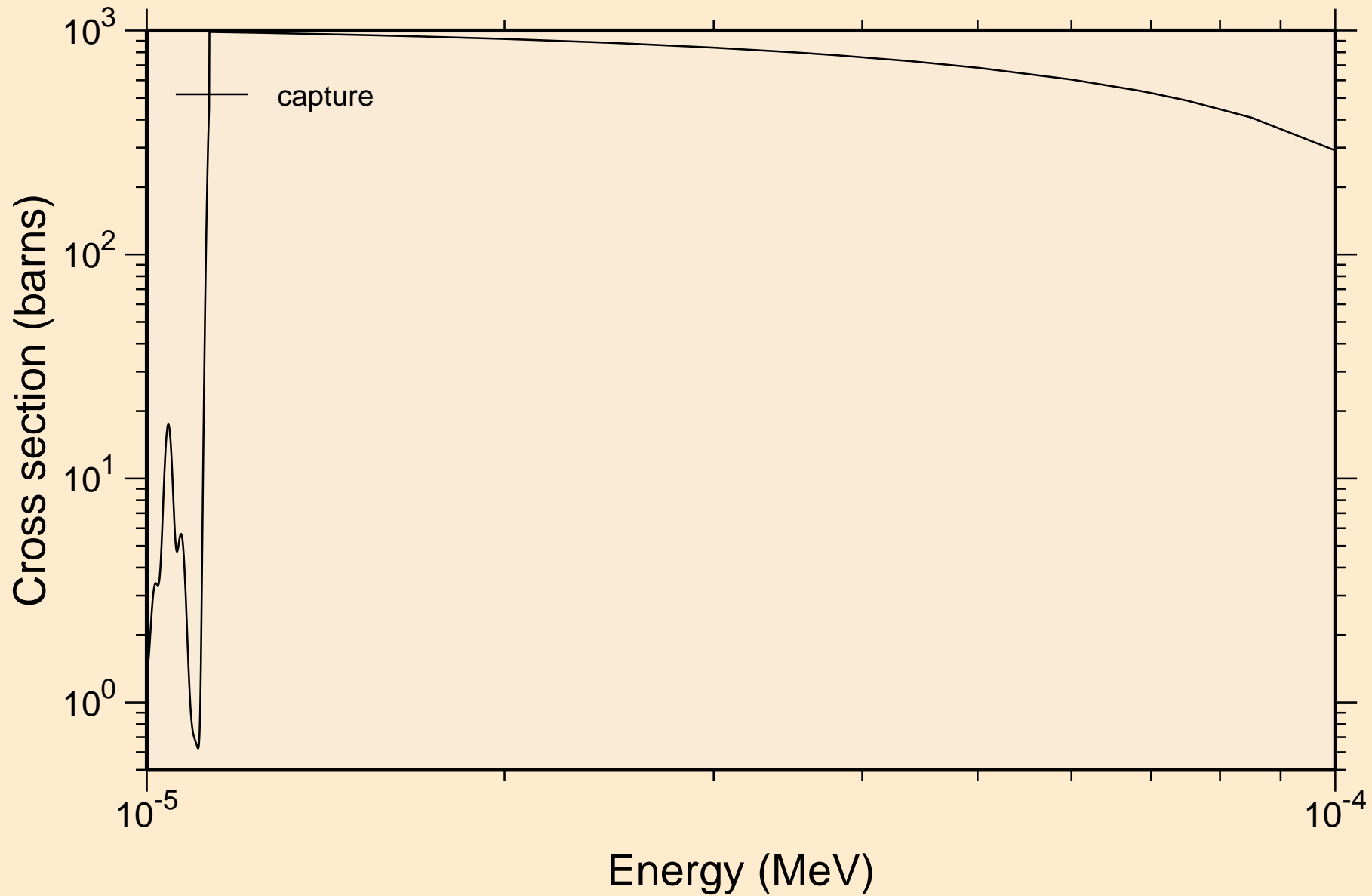




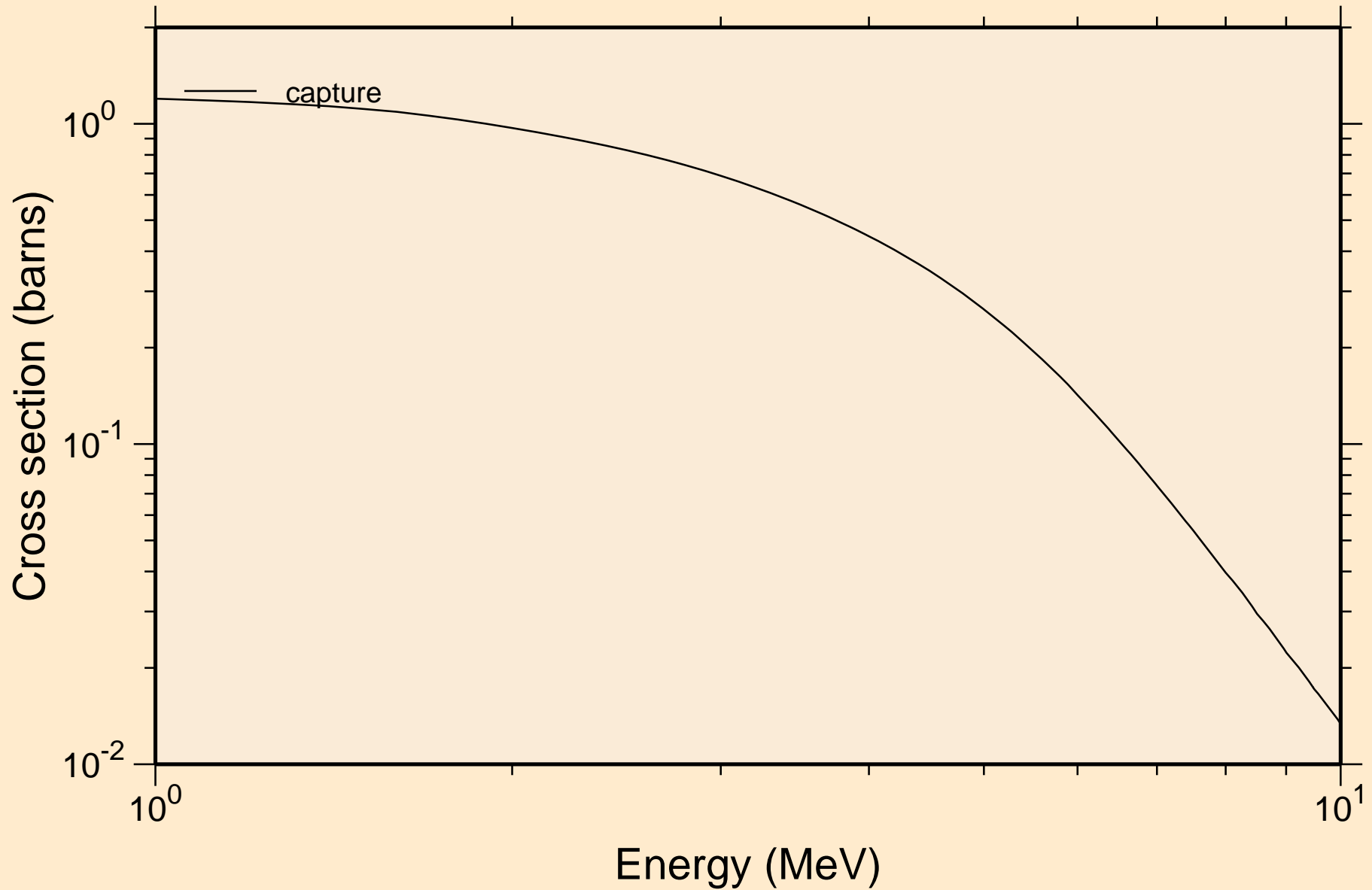
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



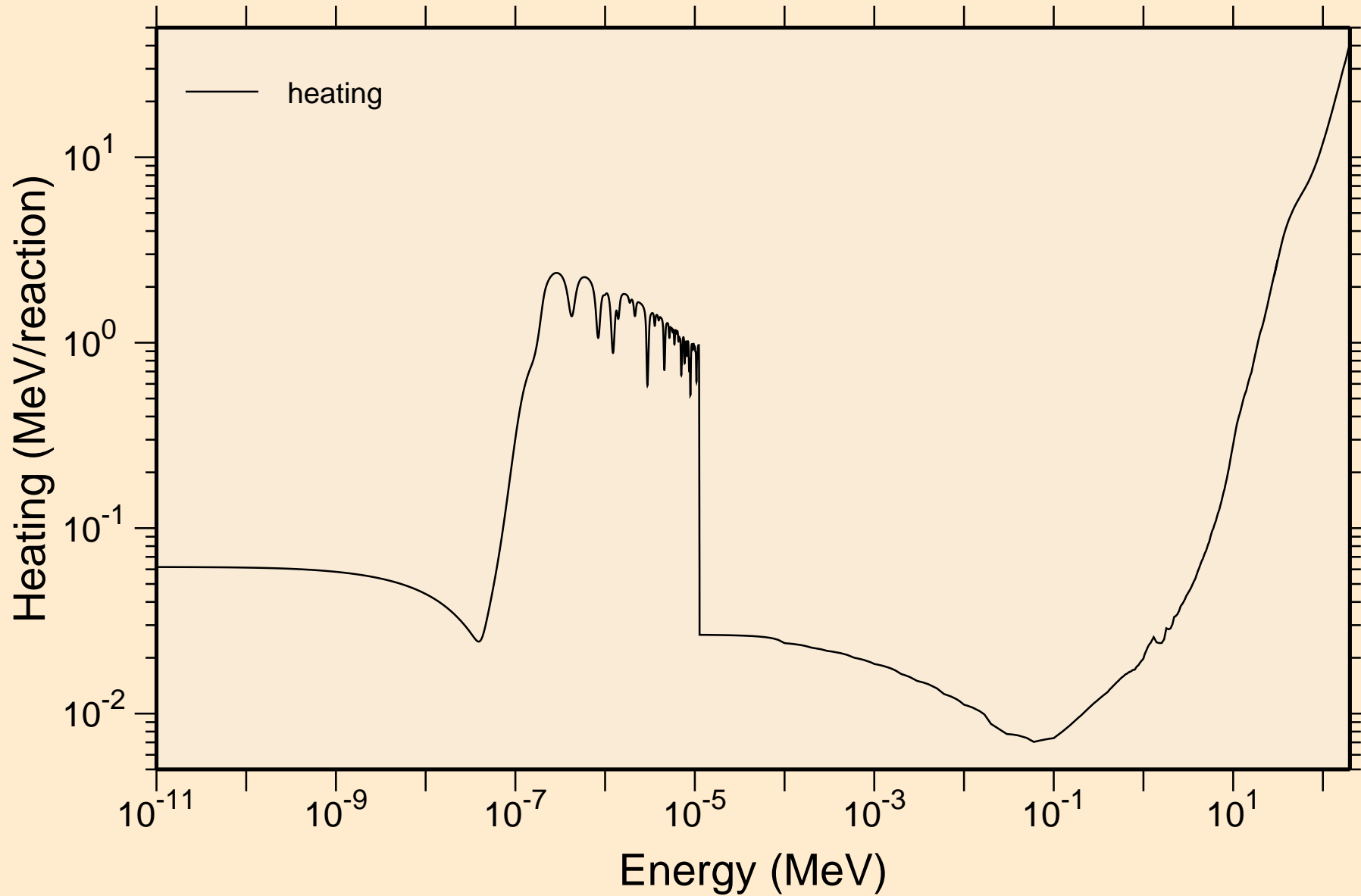
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resonance absorption cross sections



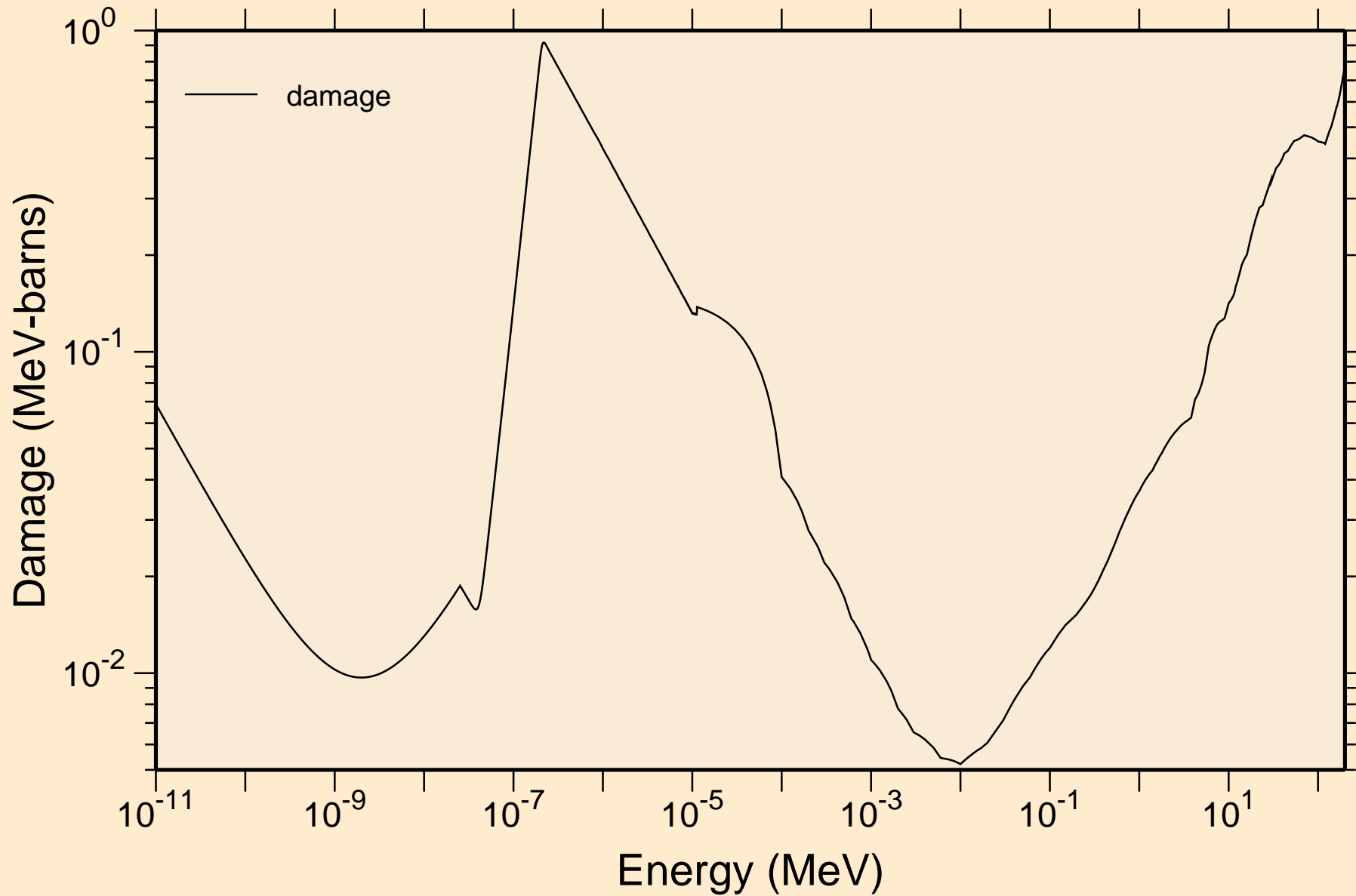
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resonance absorption cross sections



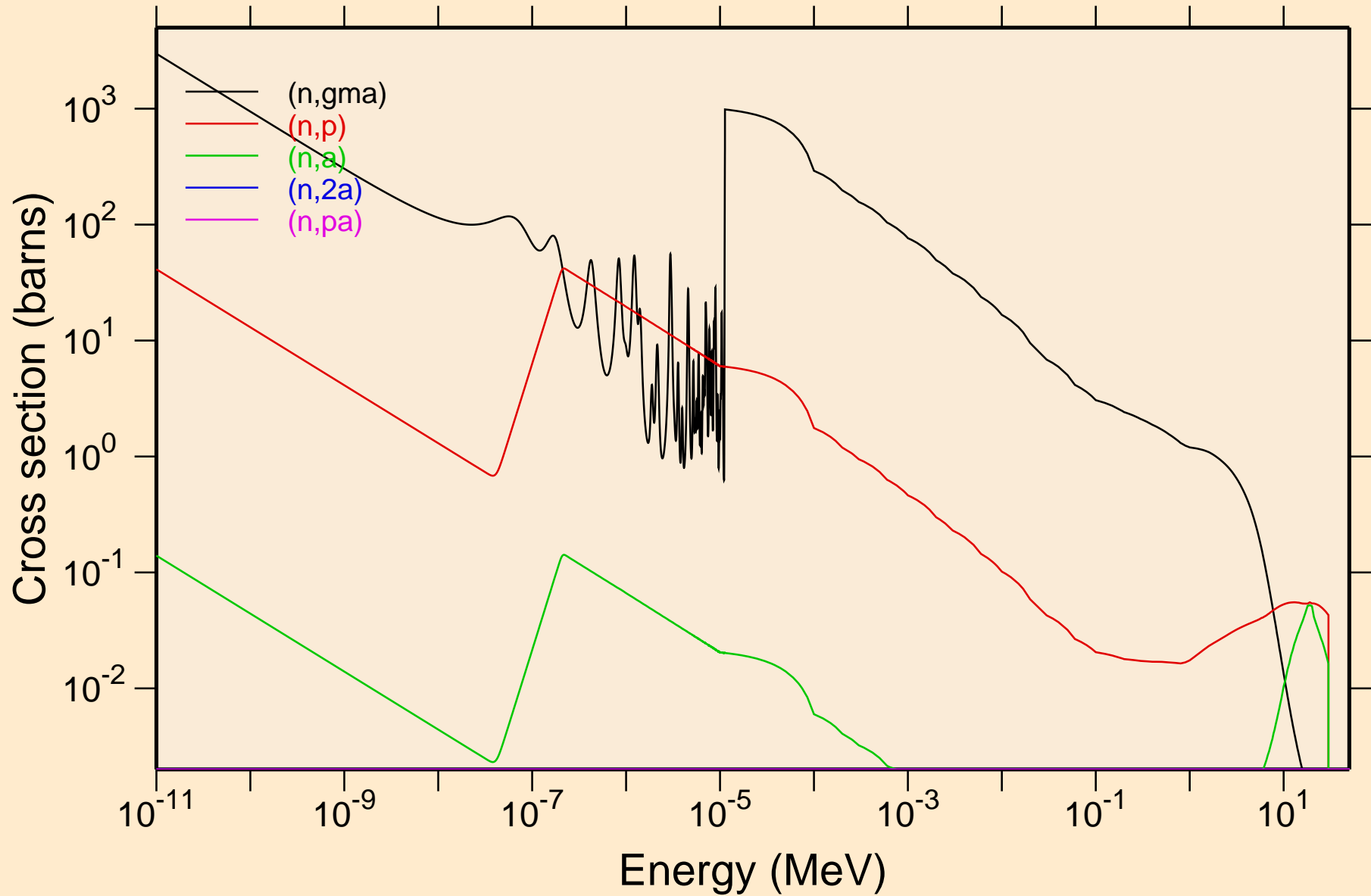
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



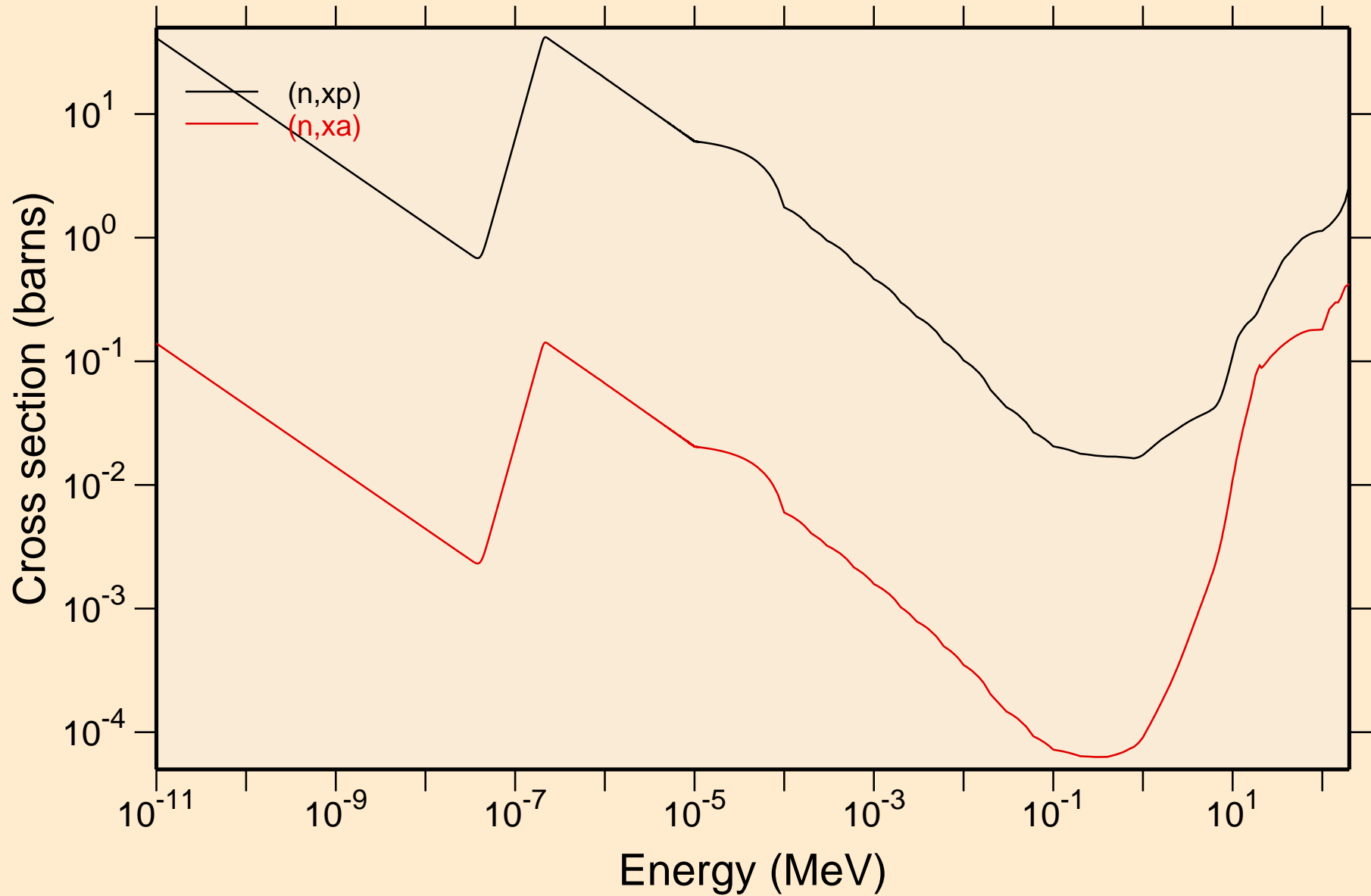
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Damage



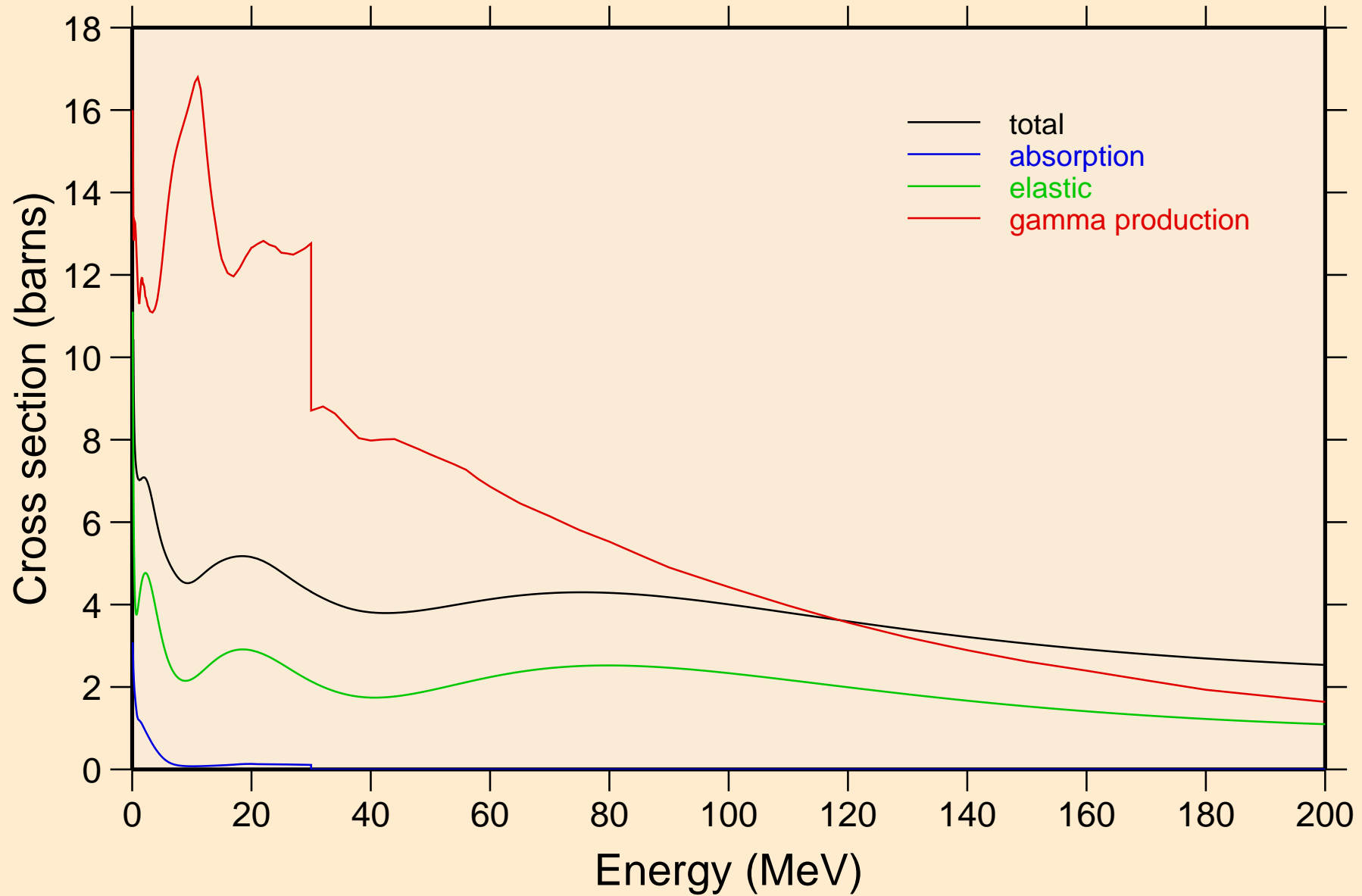
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

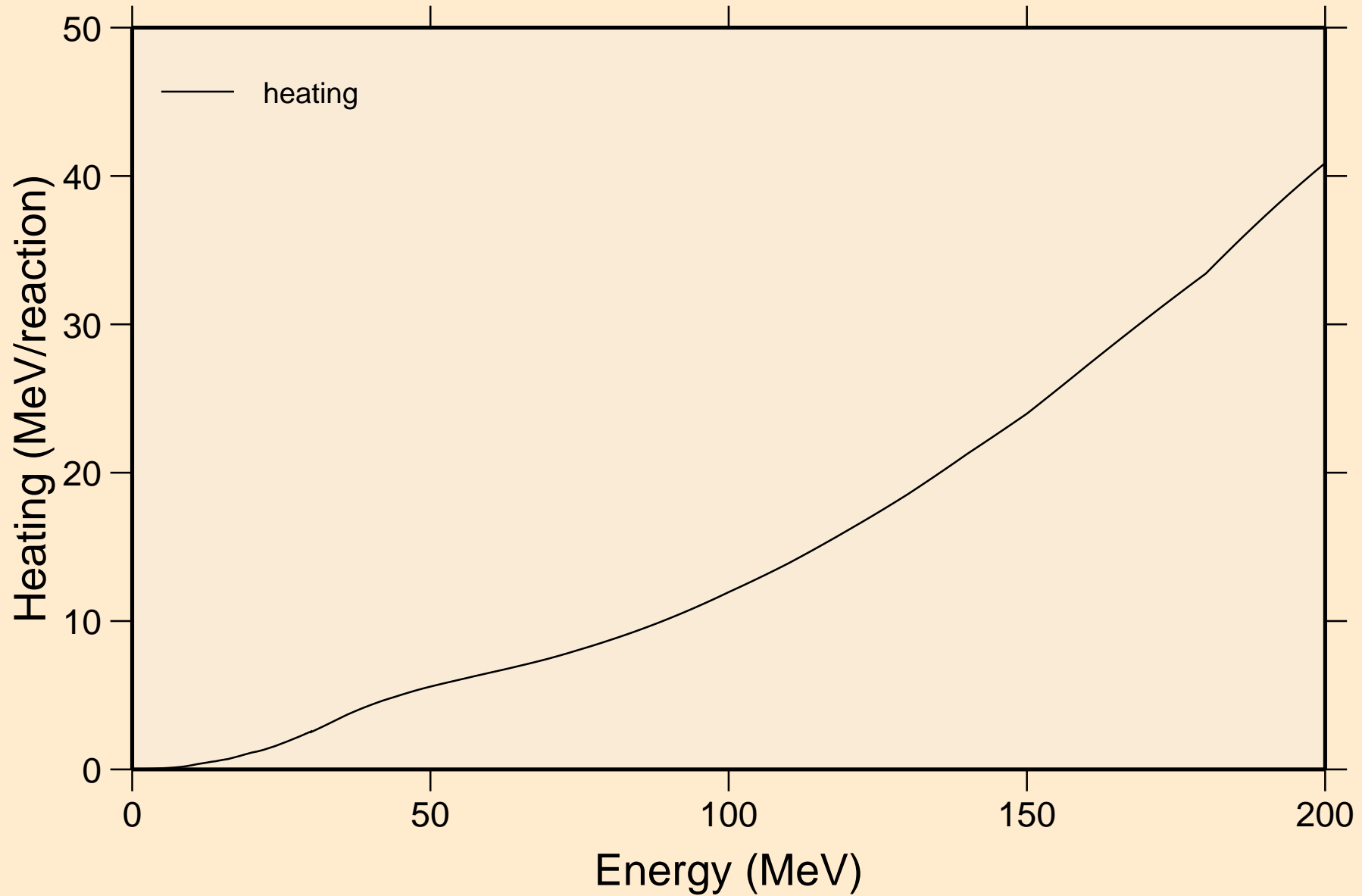


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections

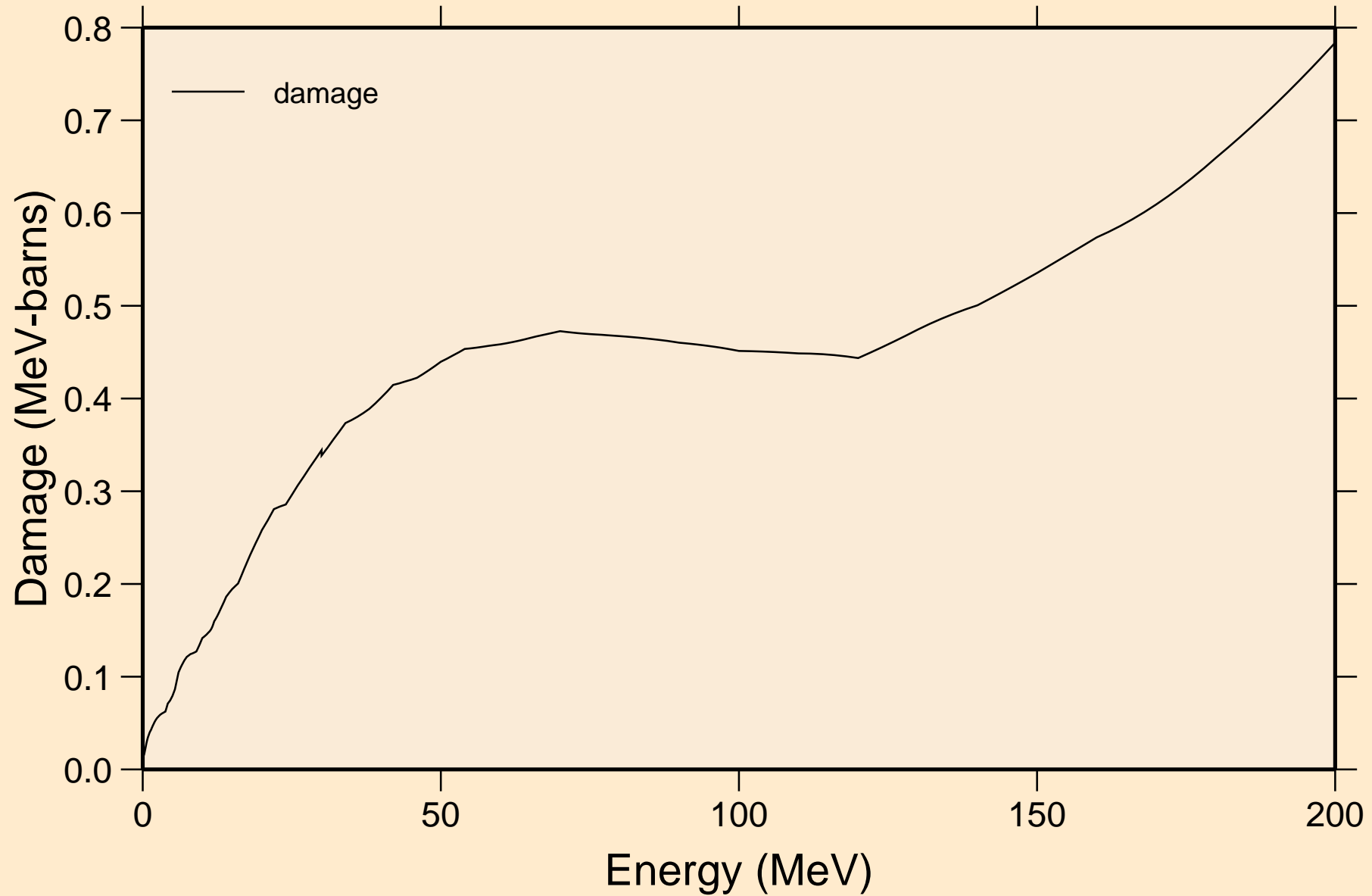




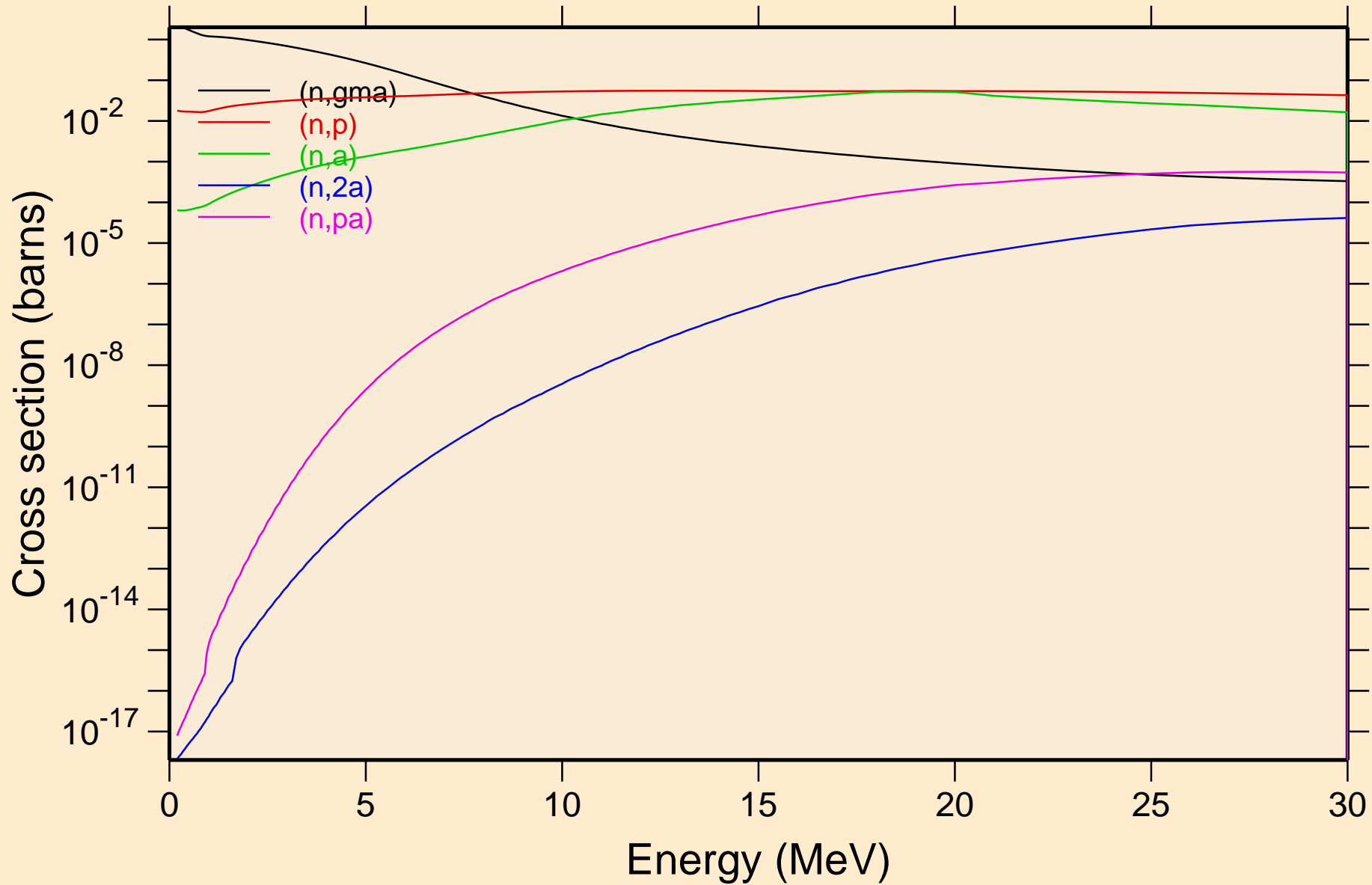
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



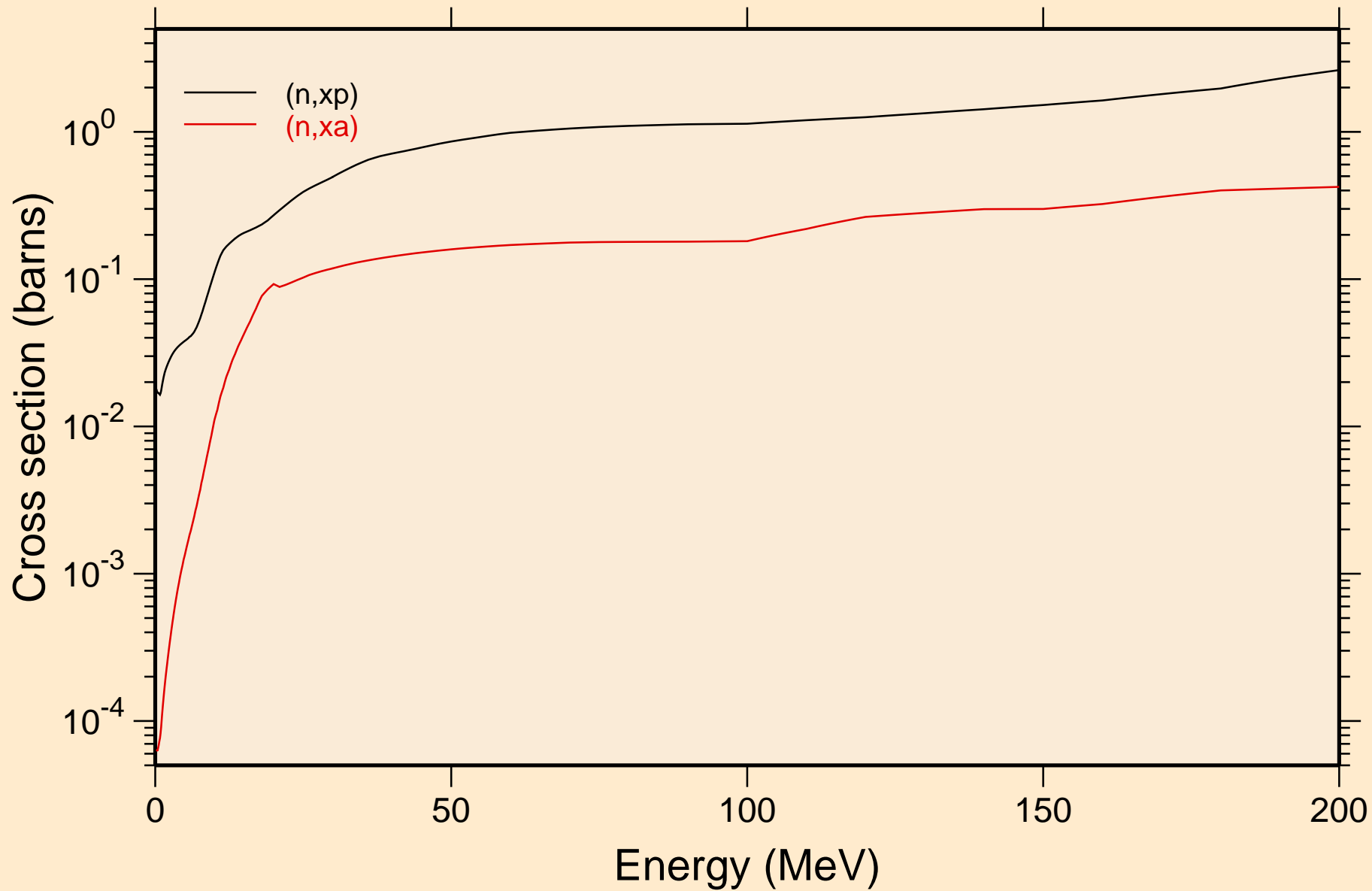
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Damage



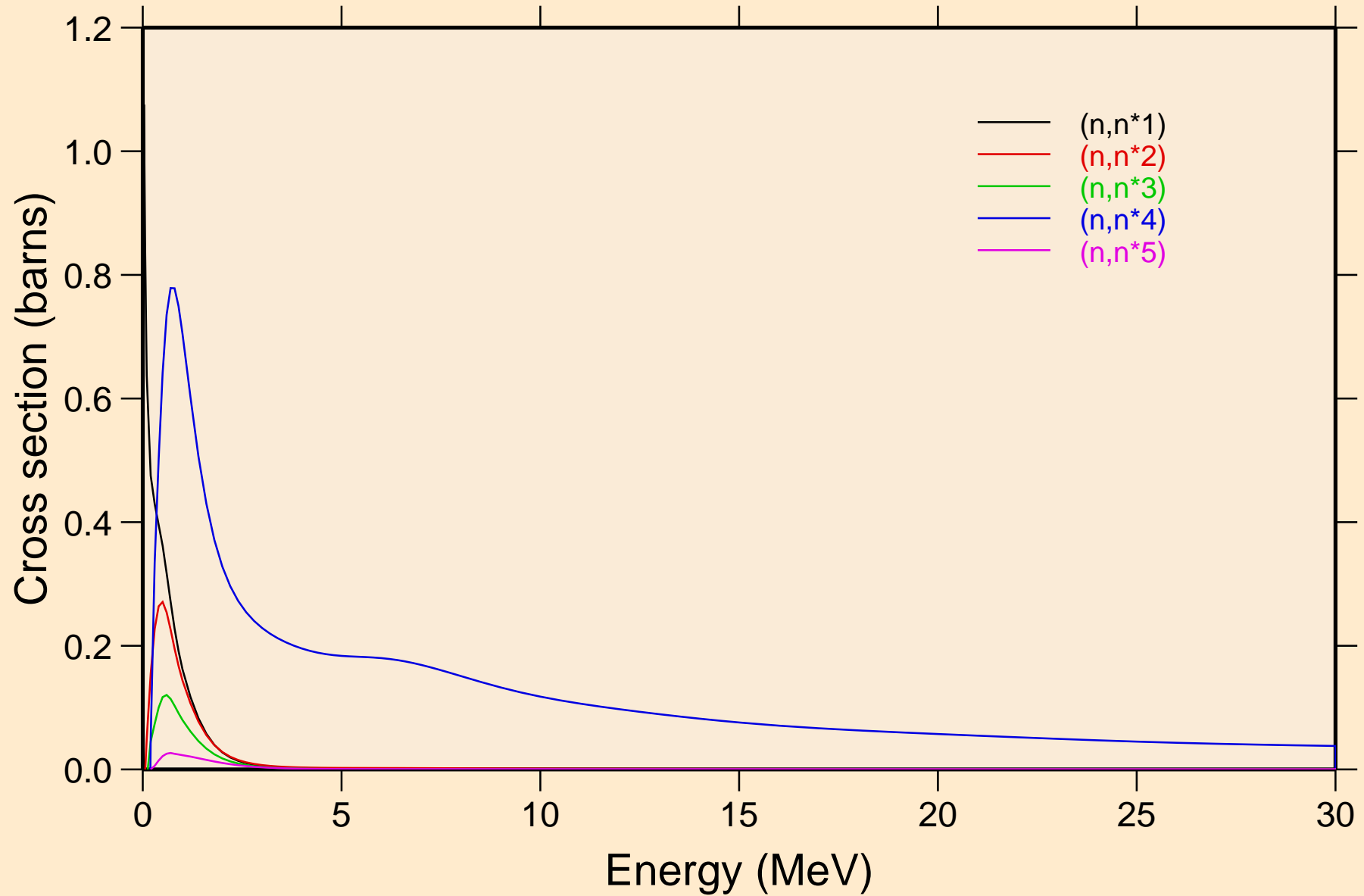
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Non-threshold reactions



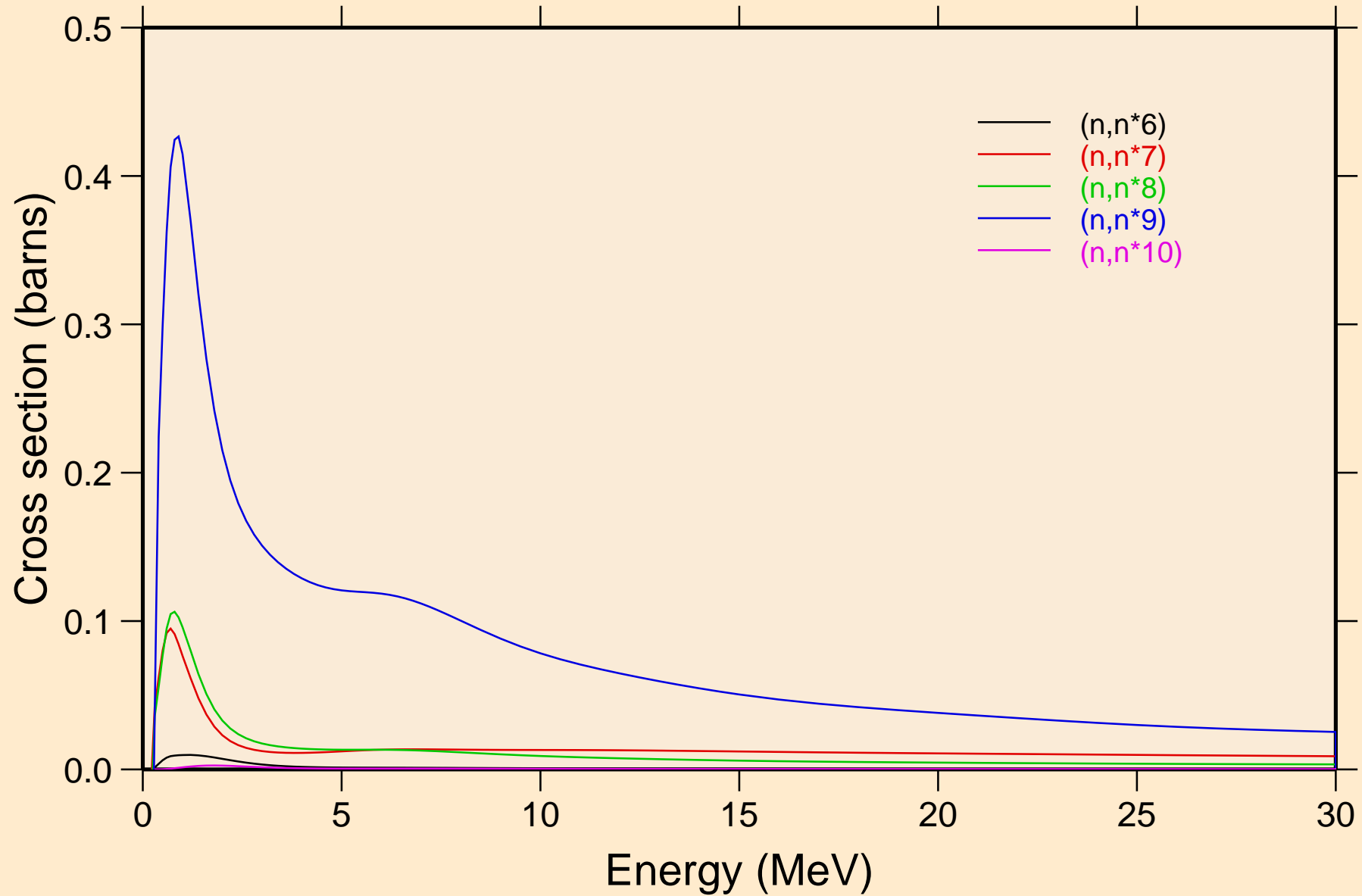
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Non-threshold reactions



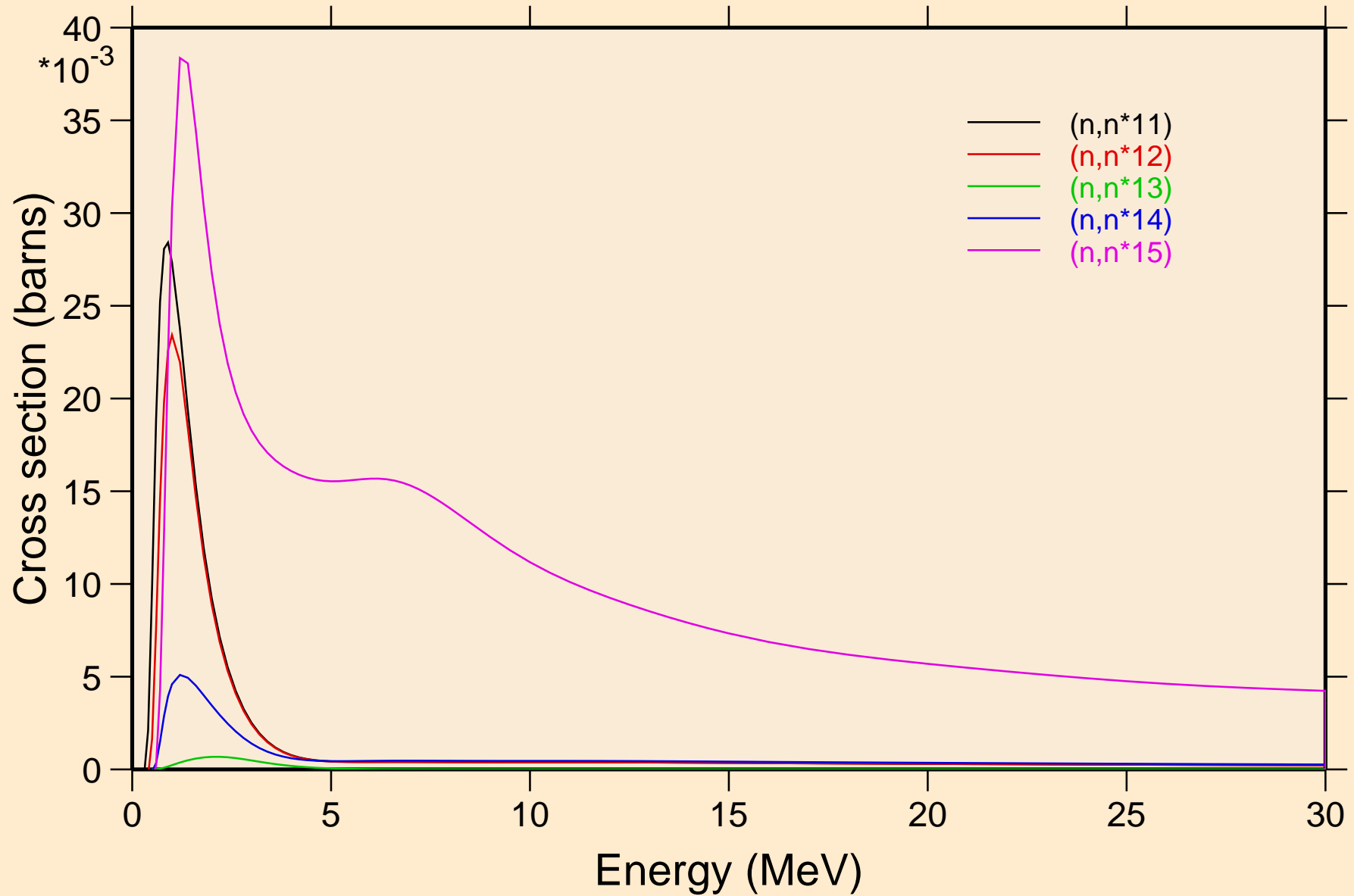
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Inelastic levels



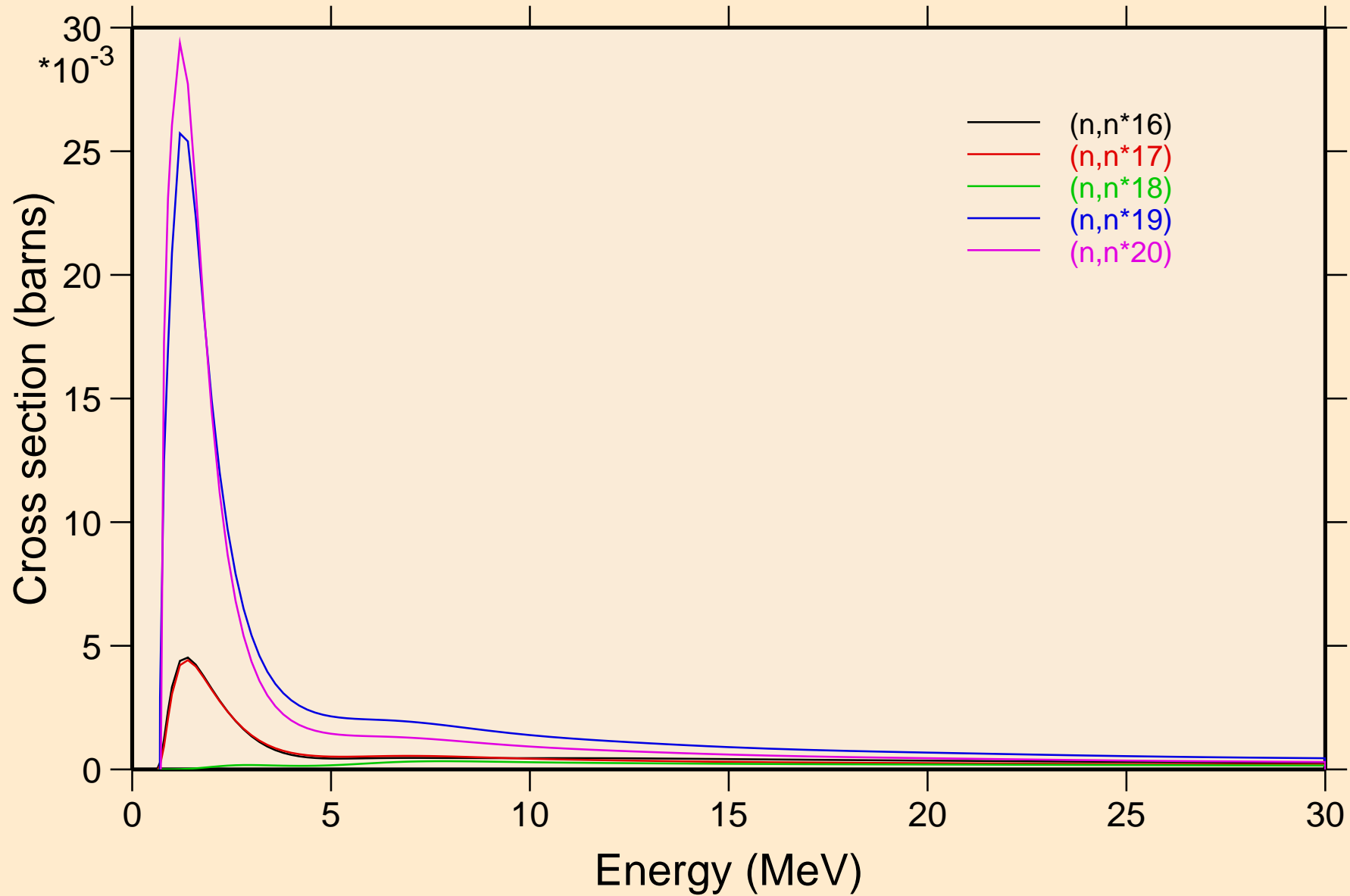
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

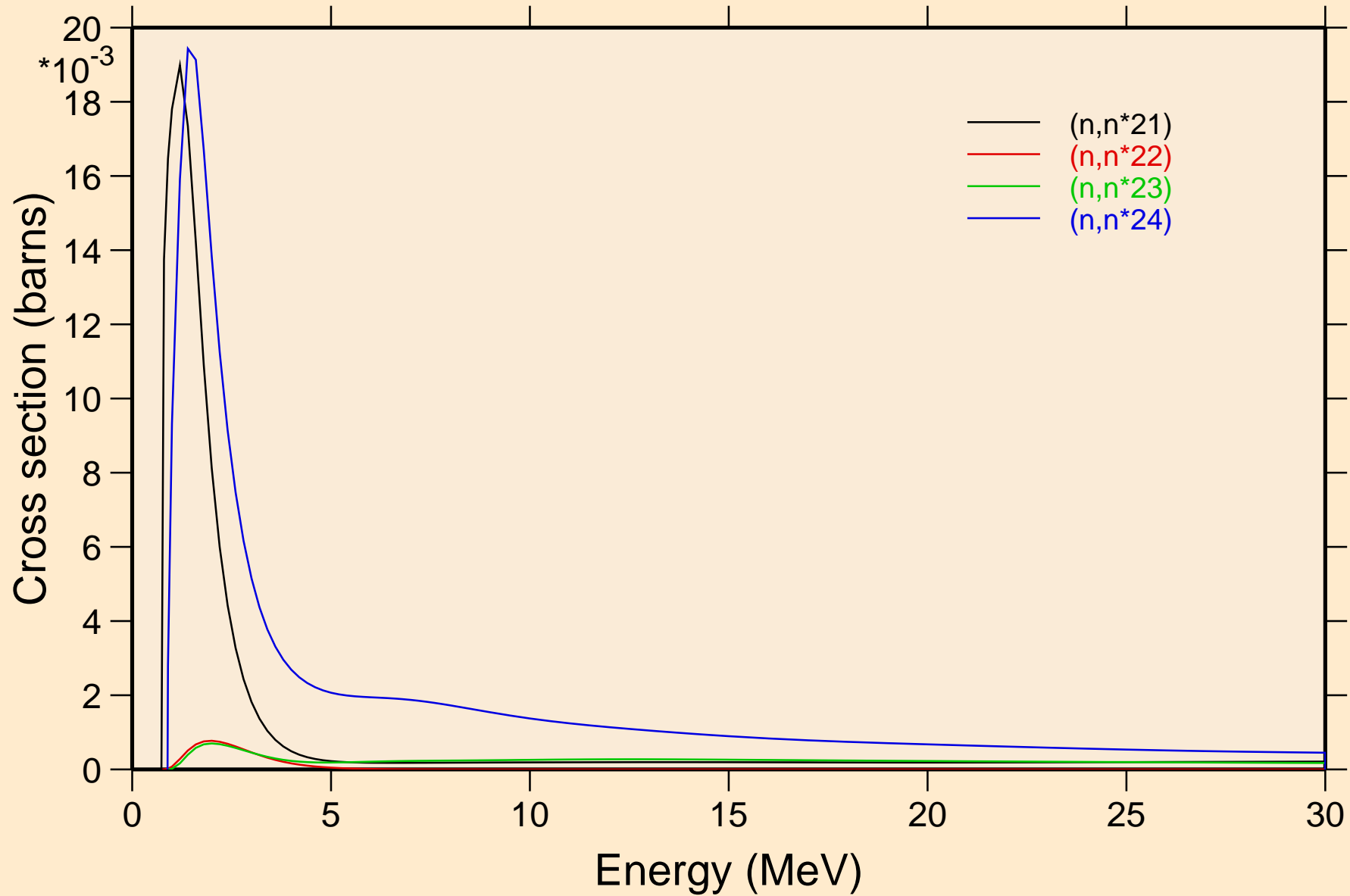


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

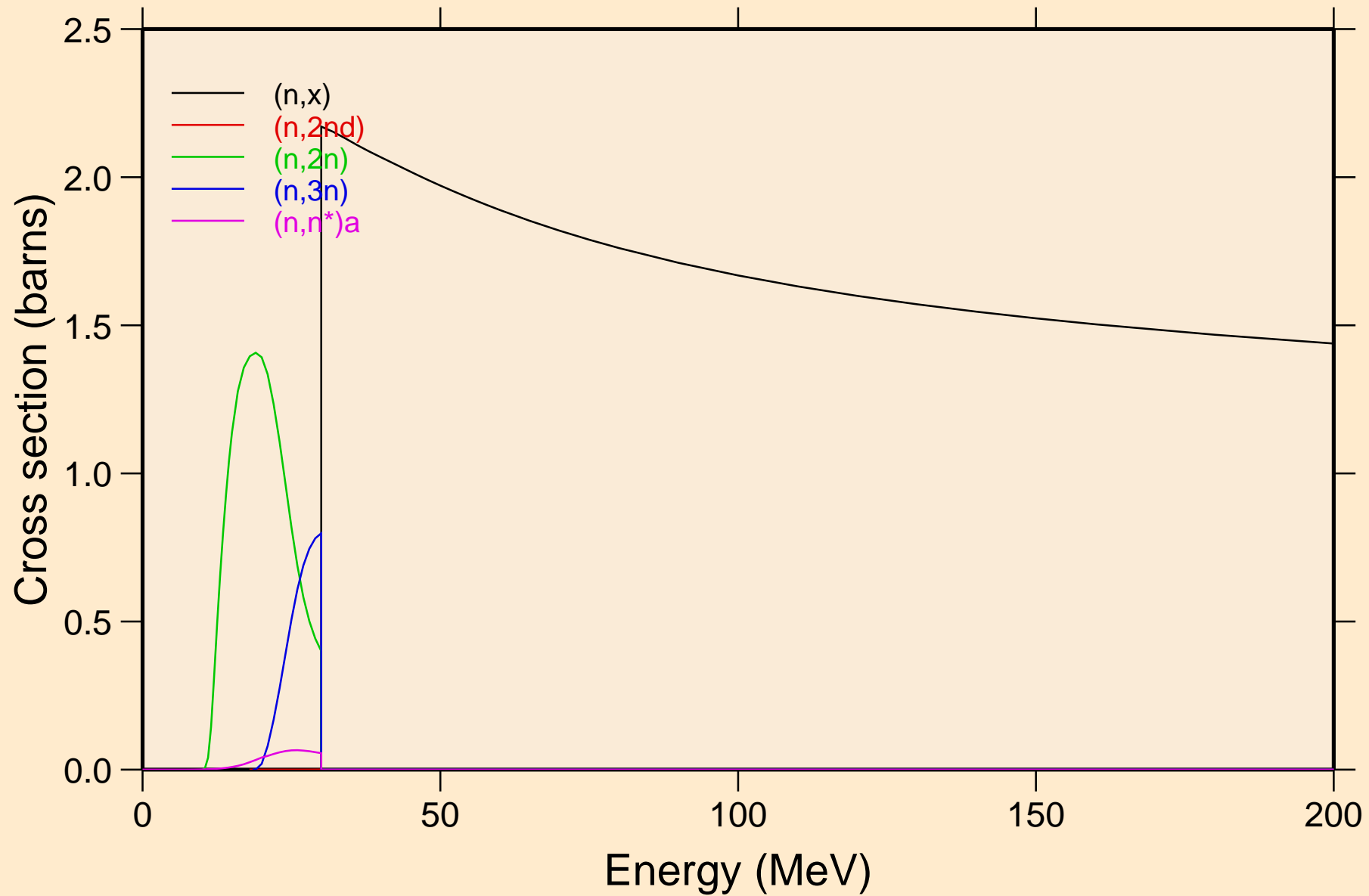




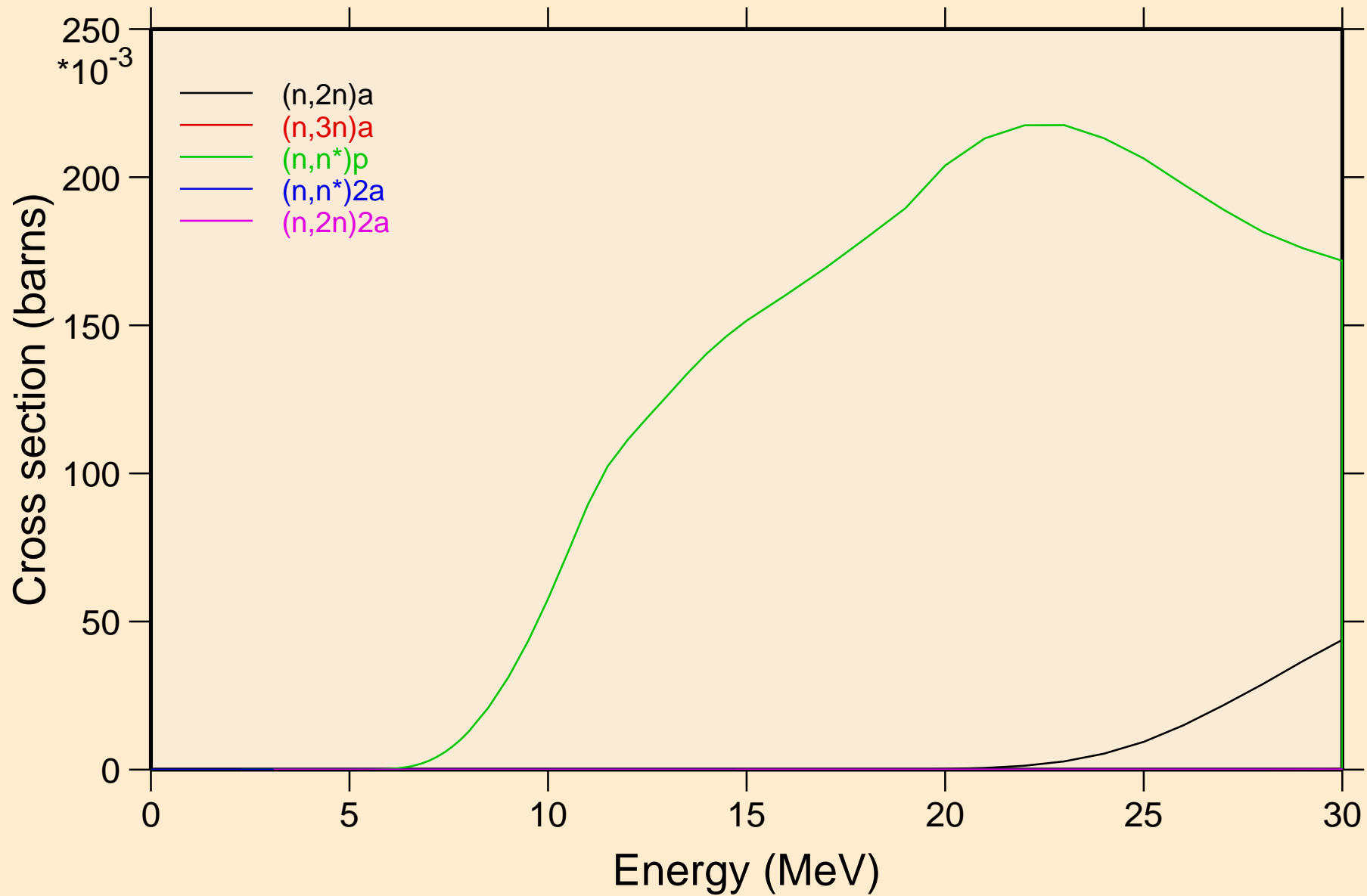
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Inelastic levels



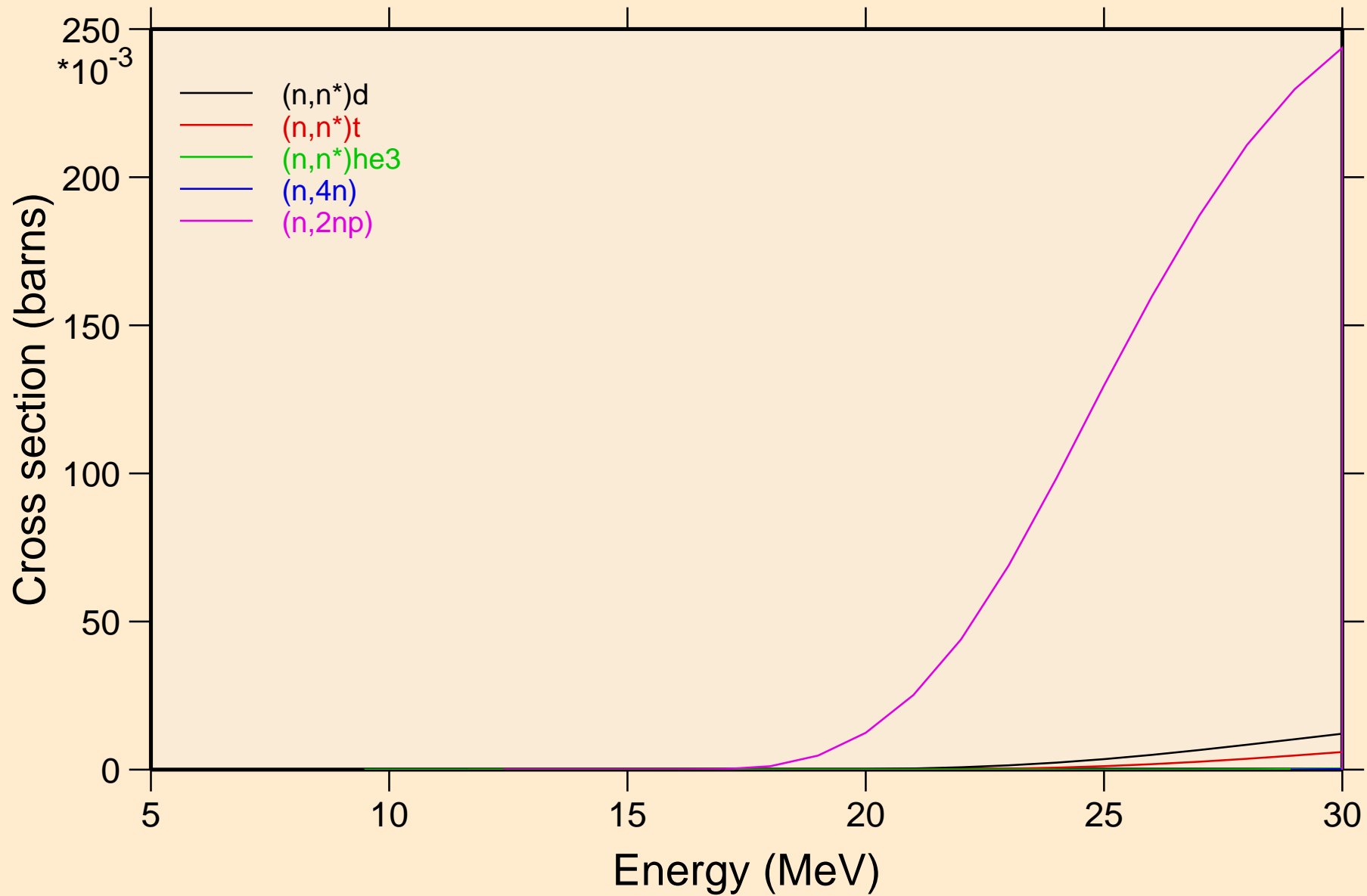
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Threshold reactions



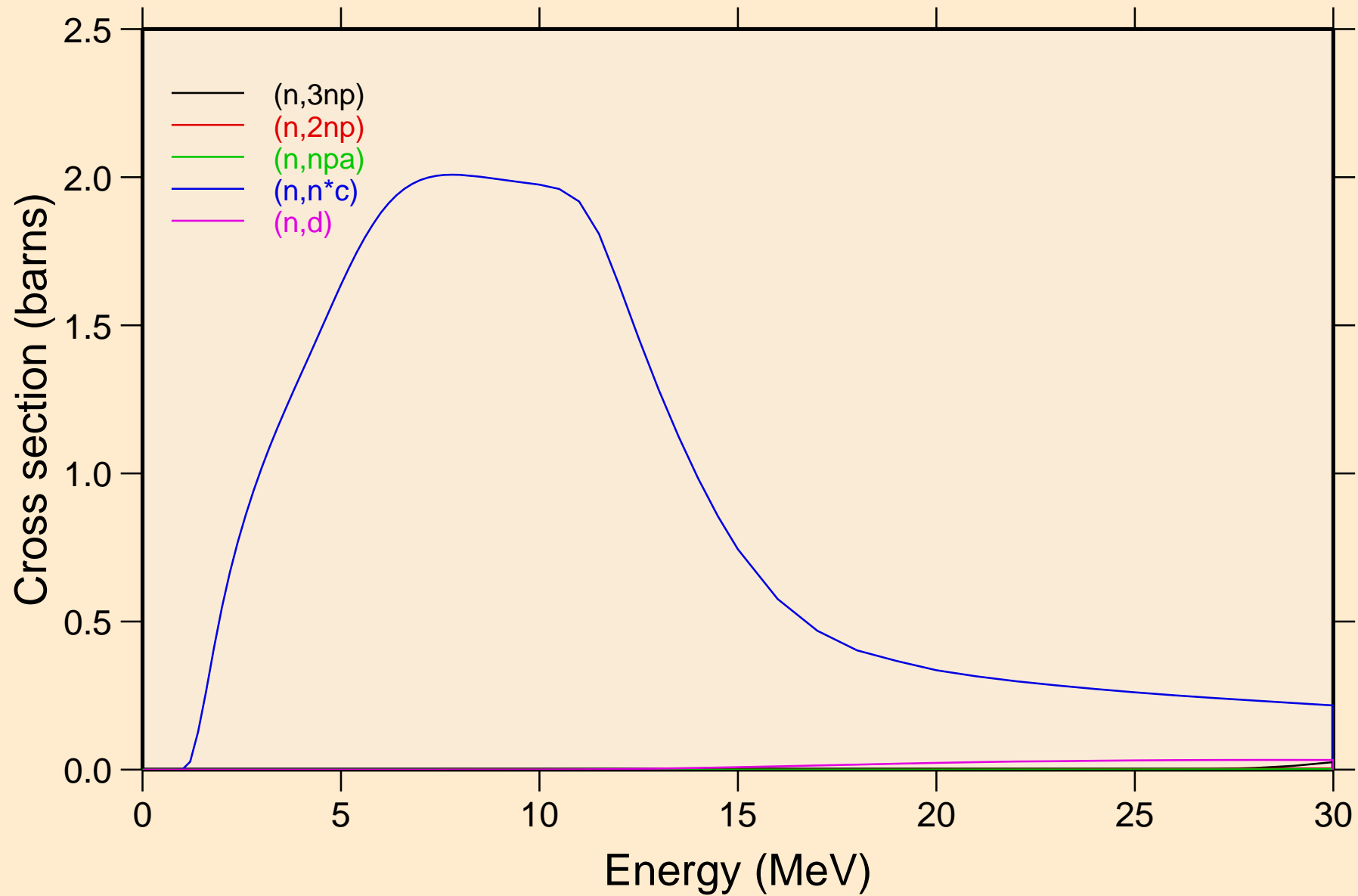
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Threshold reactions



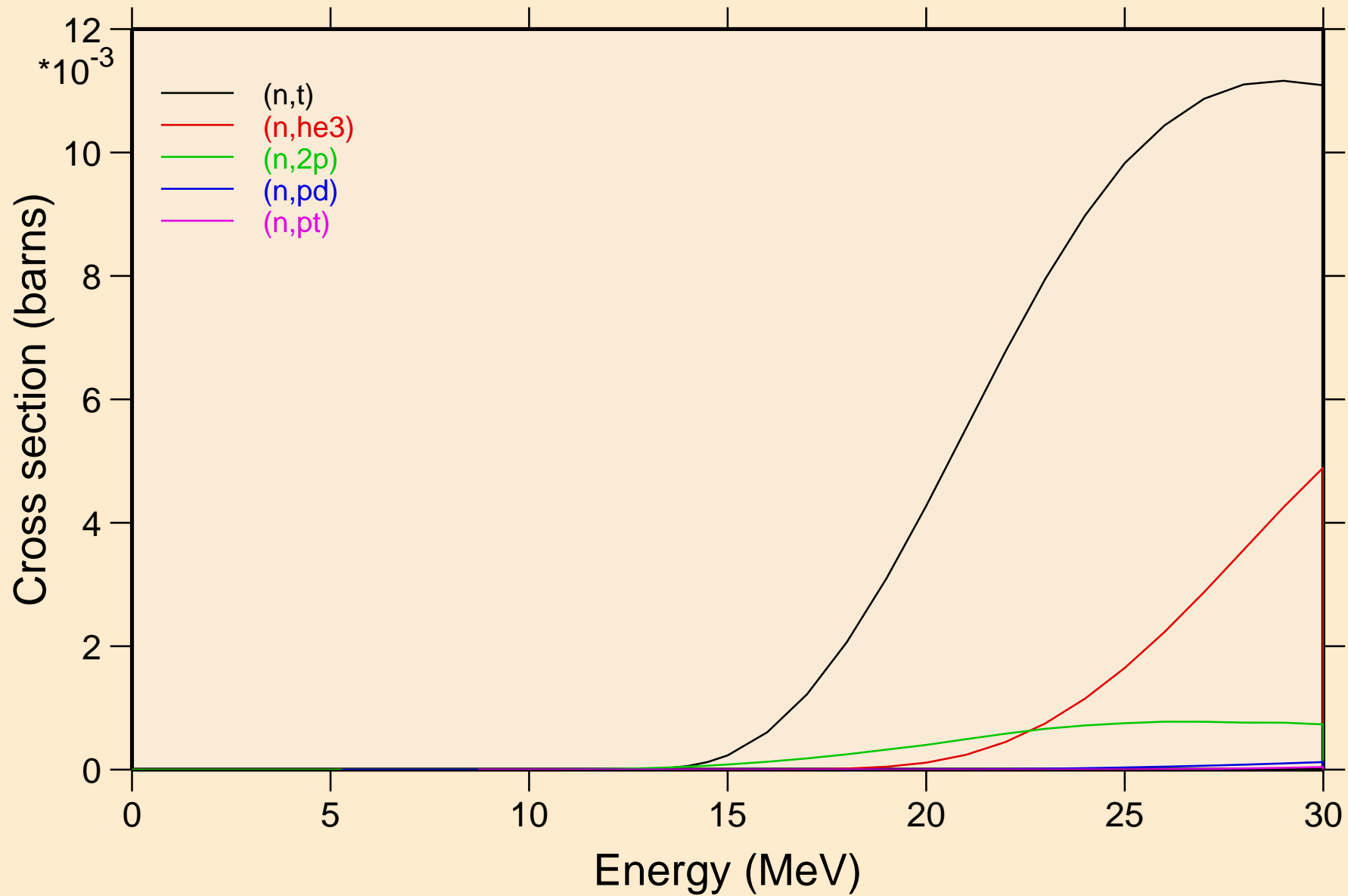
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Threshold reactions



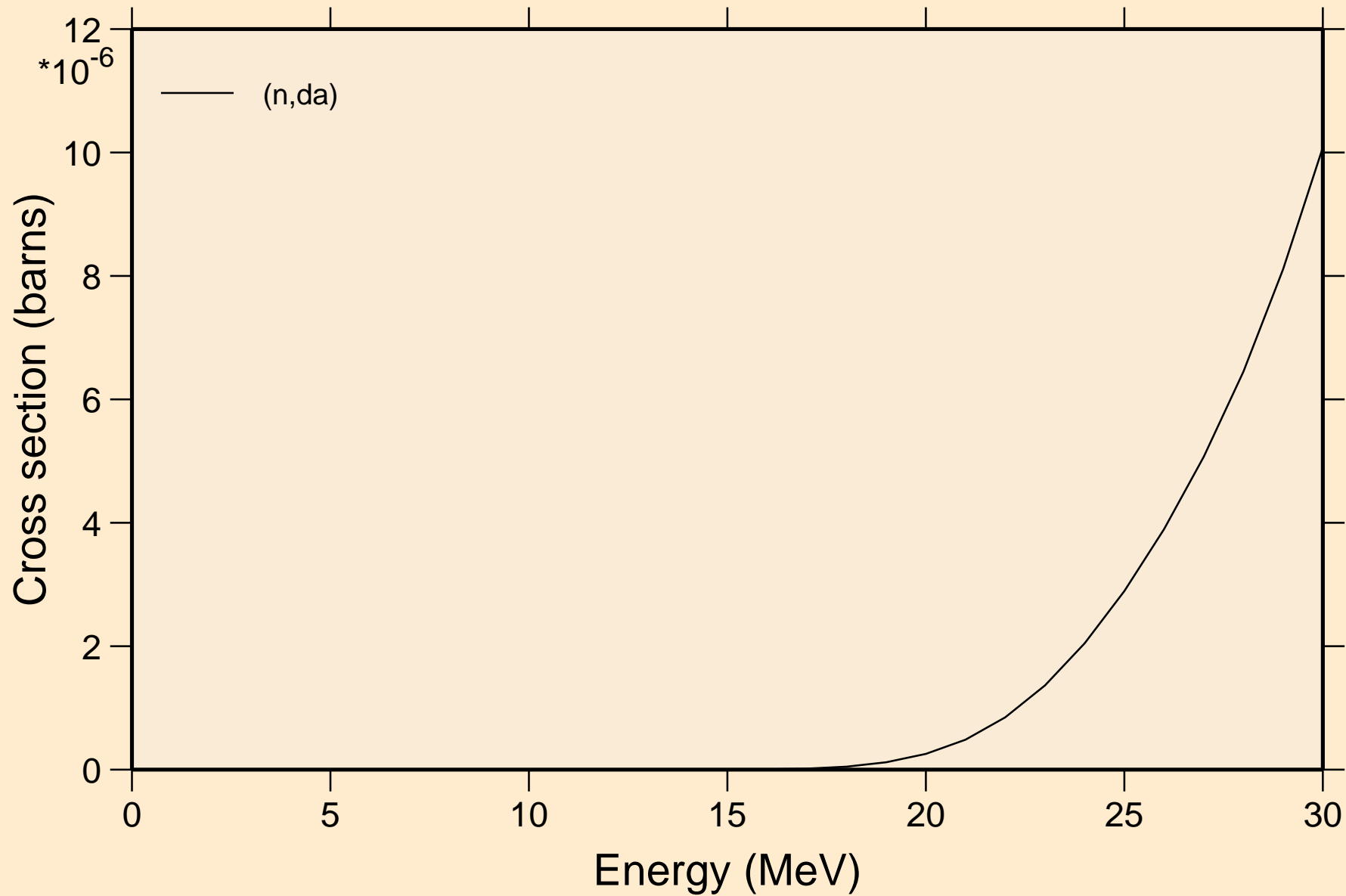
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Threshold reactions



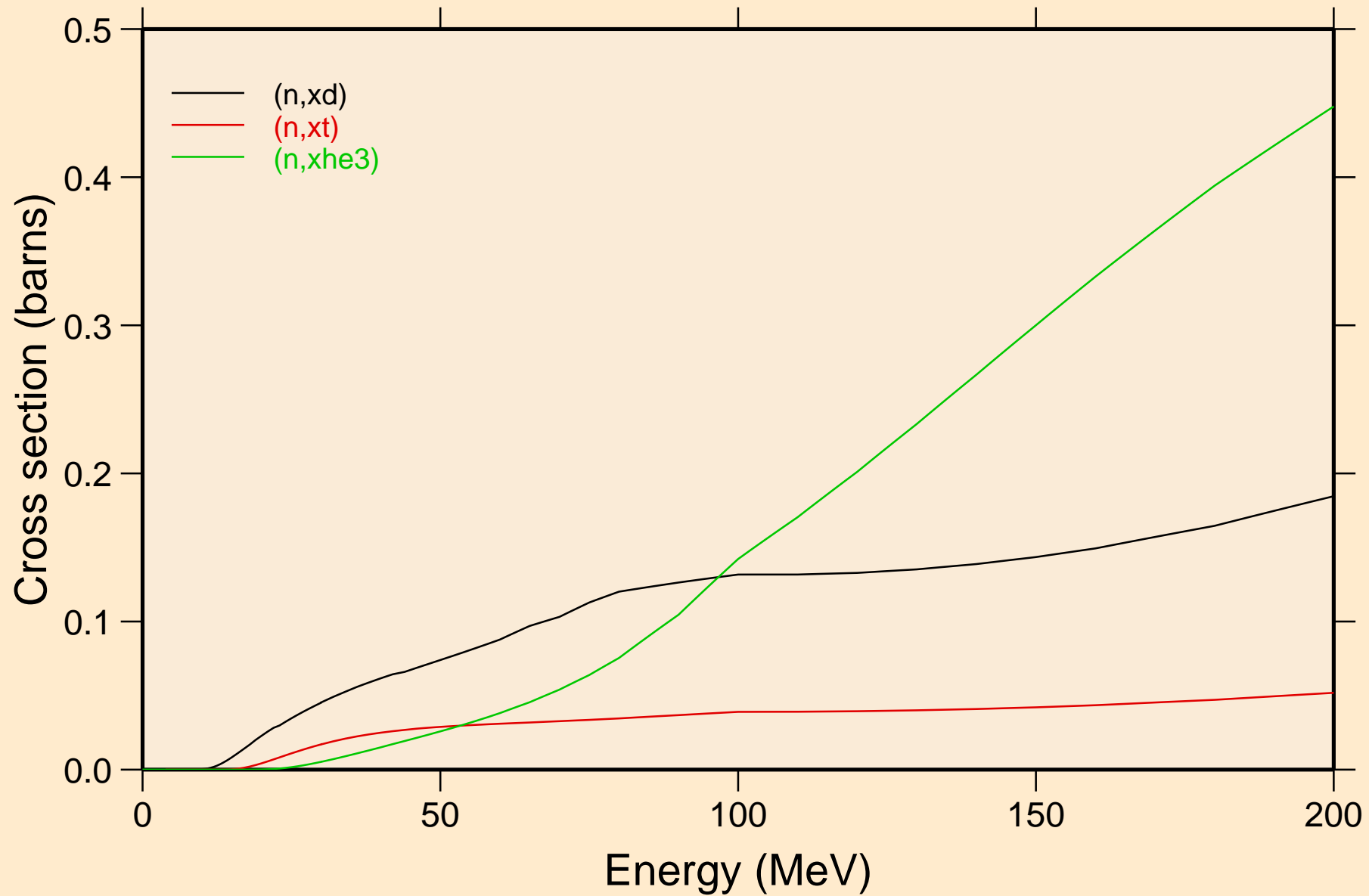
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

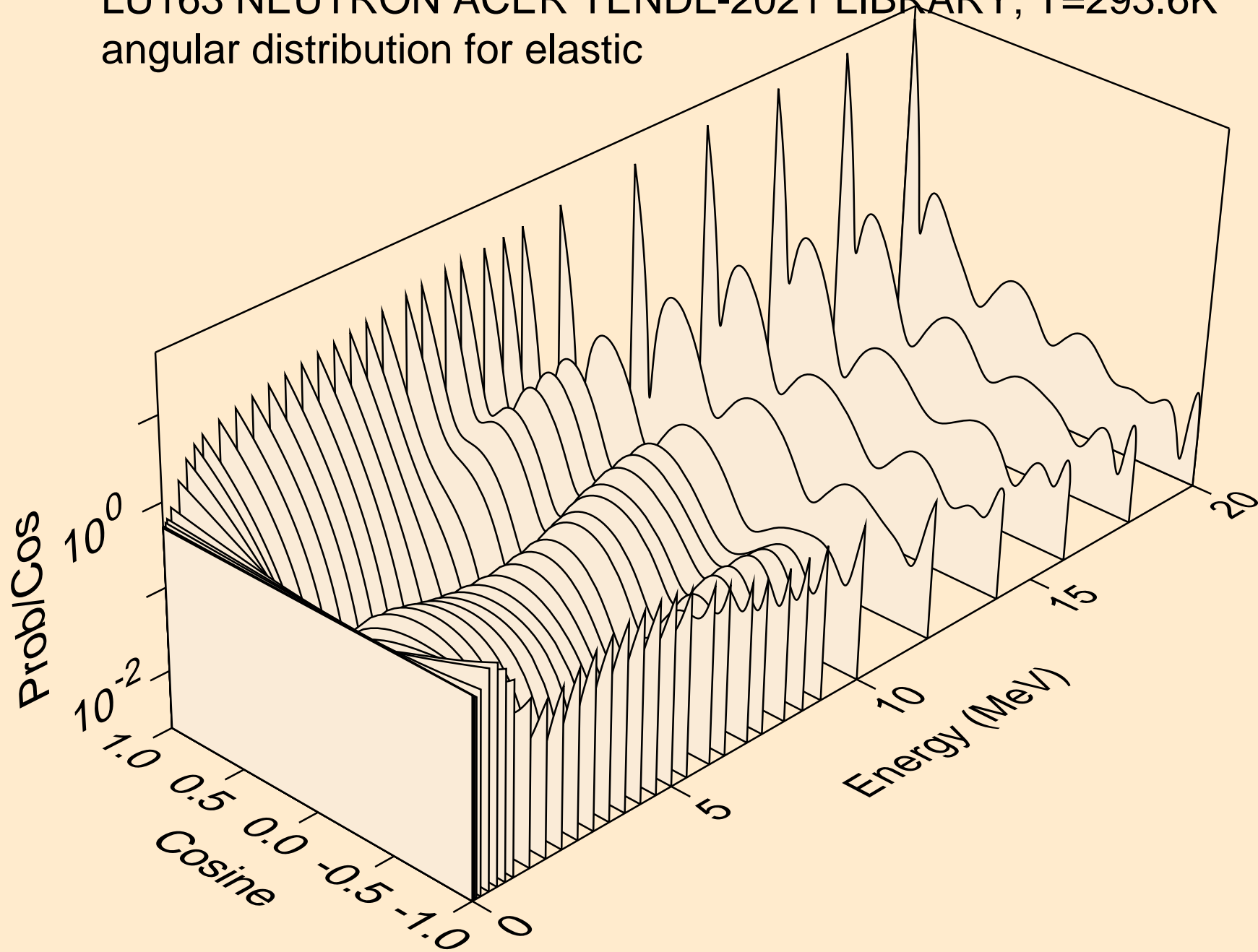


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Threshold reactions

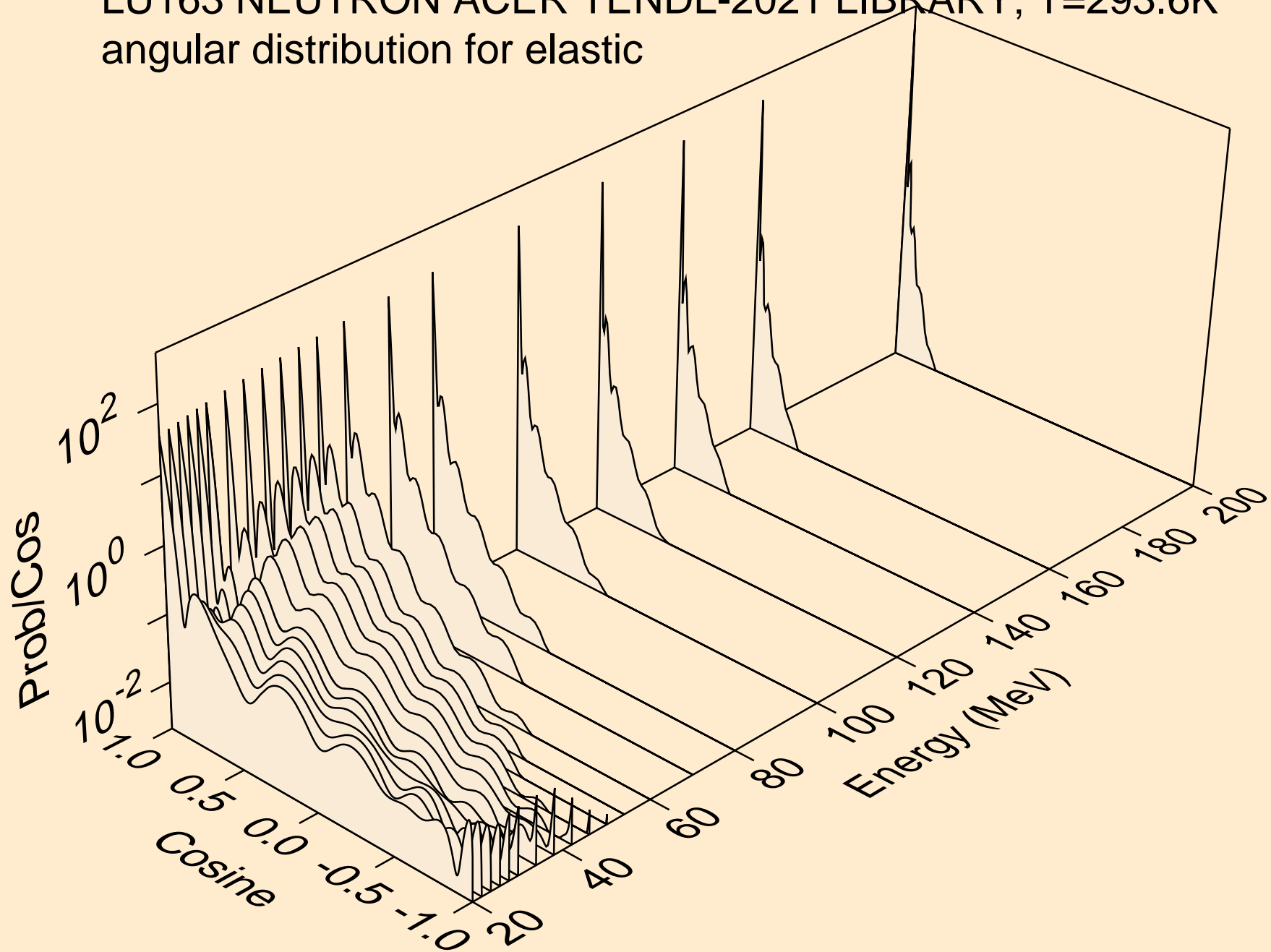




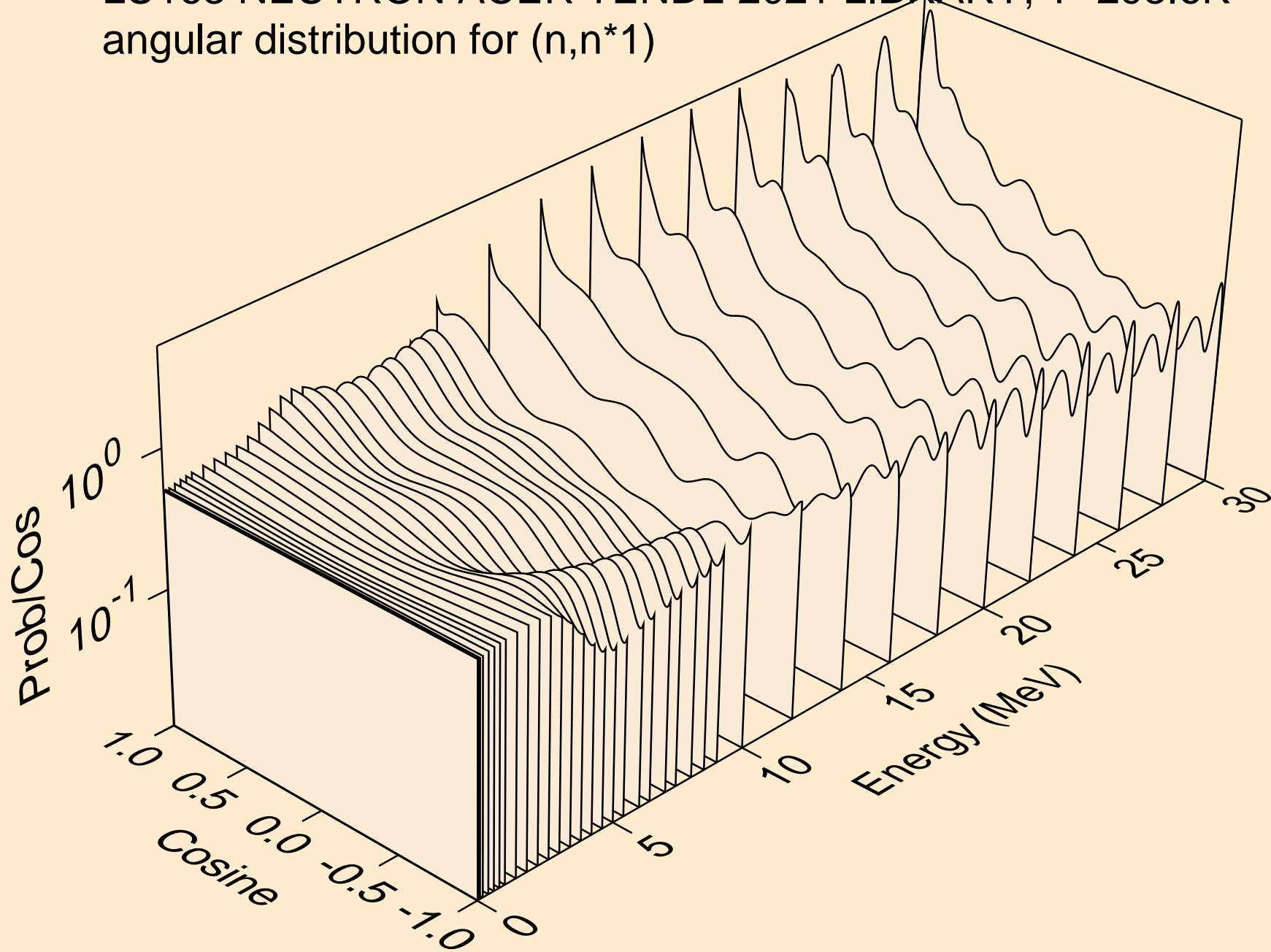
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angular distribution for elastic



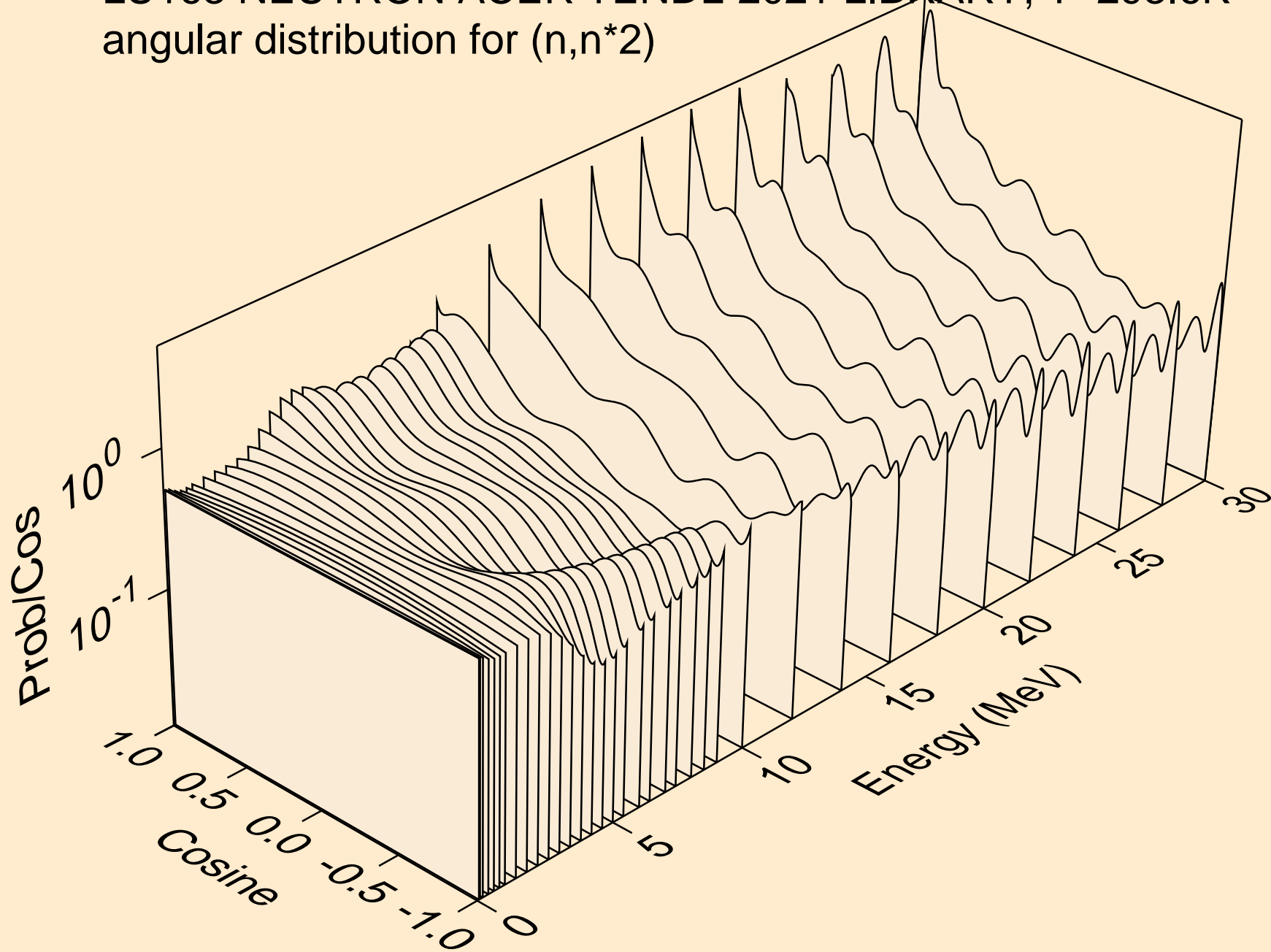
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angular distribution for elastic



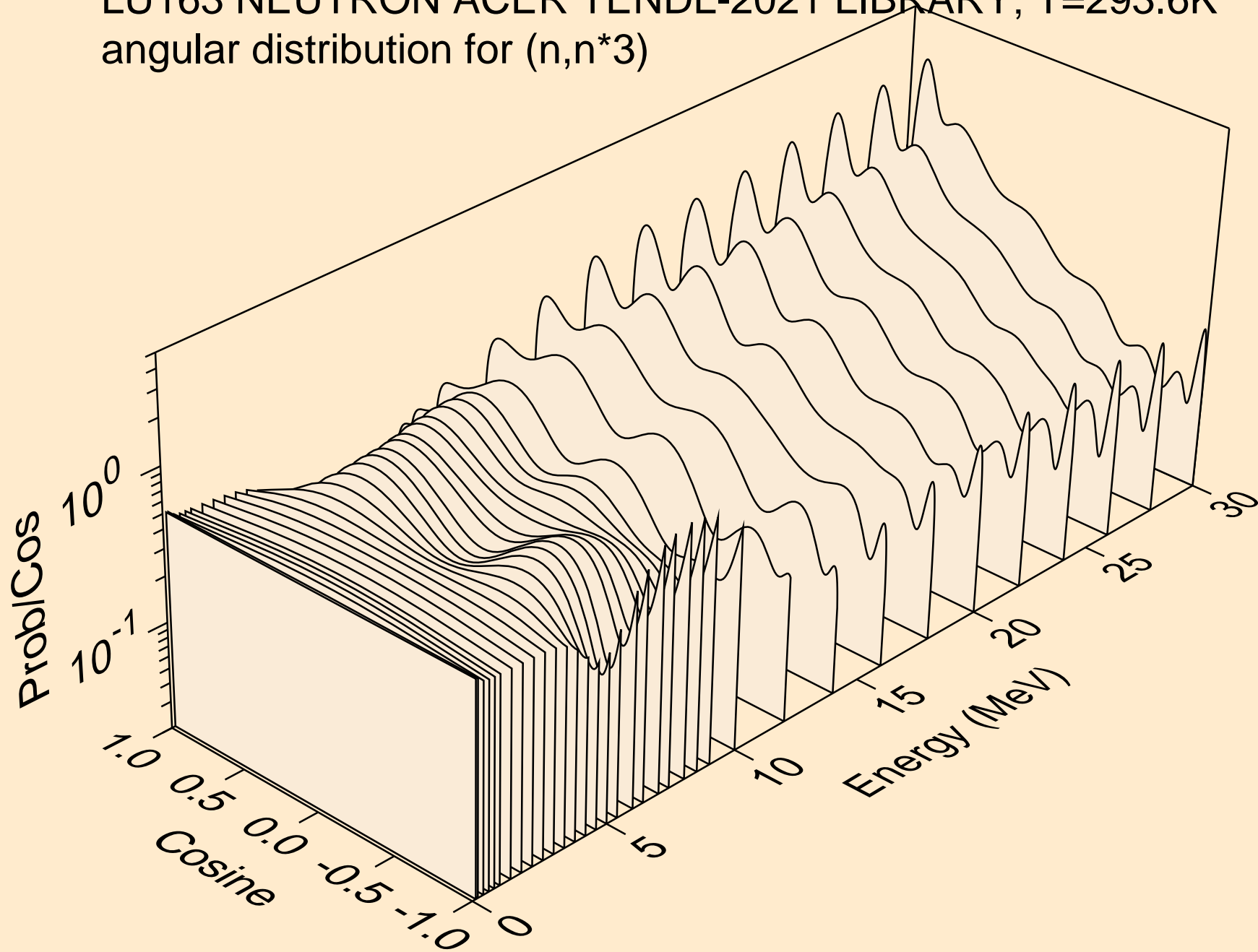
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angular distribution for (n,n\*1)



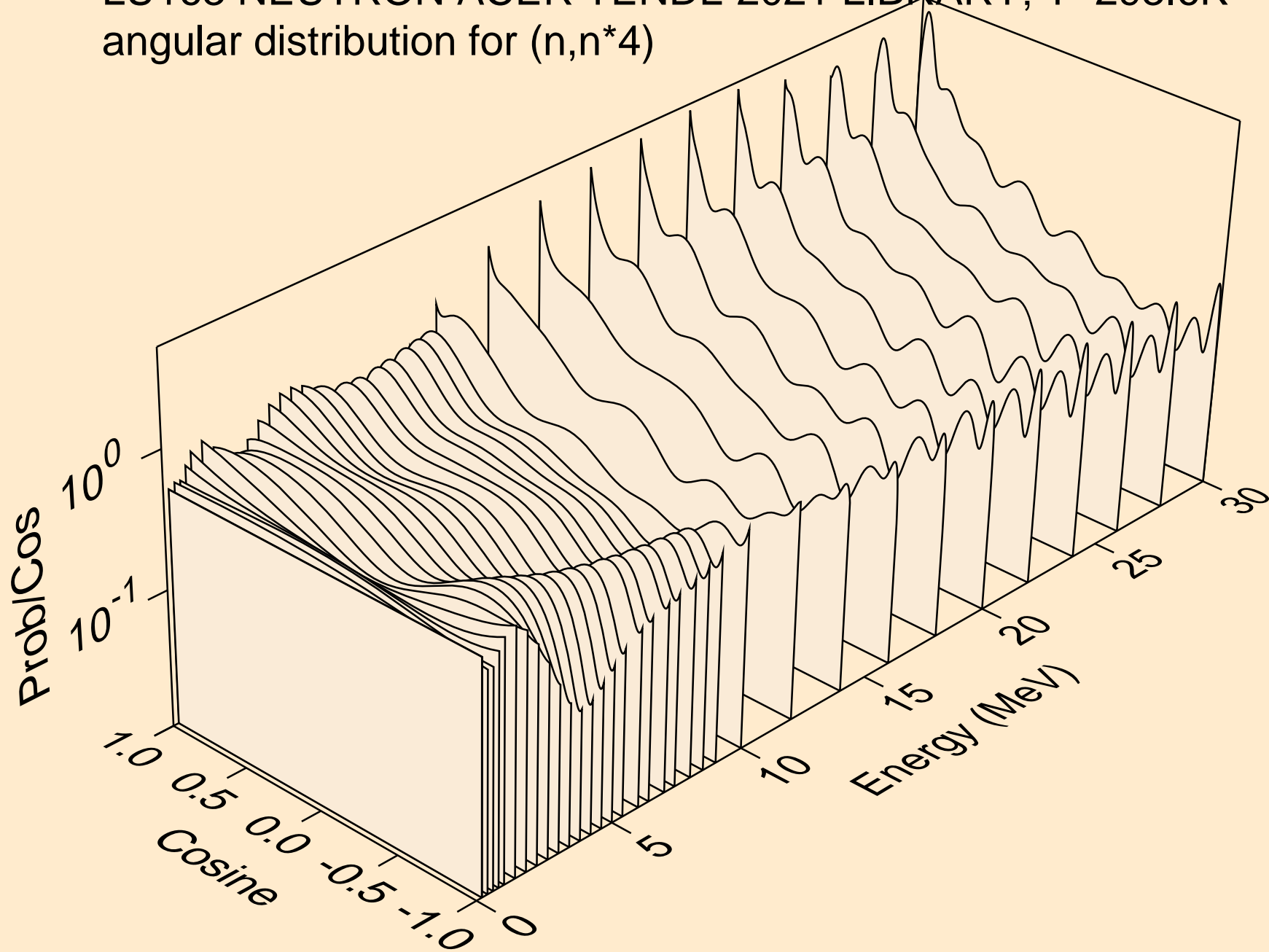
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angular distribution for (n,n\*2)



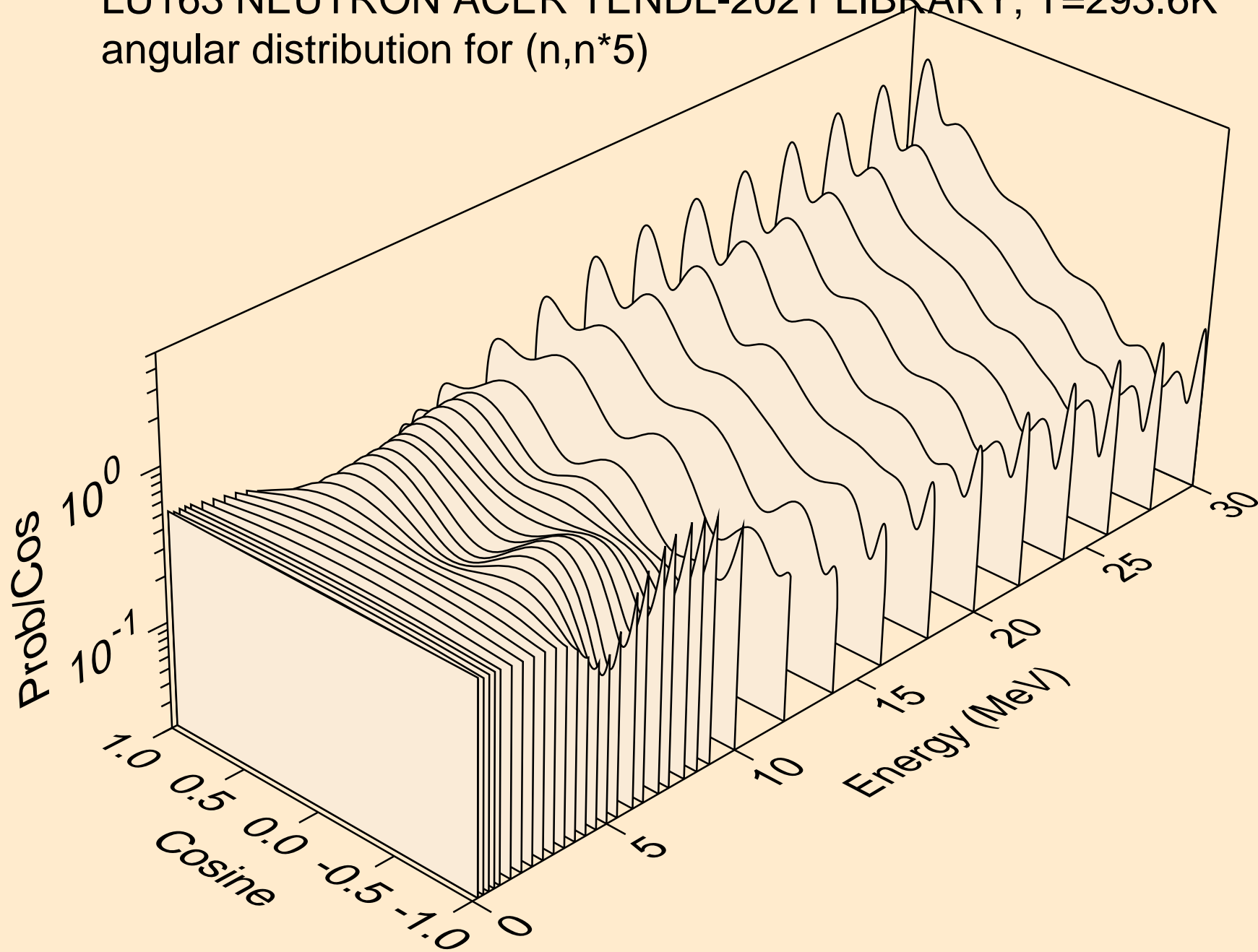
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angular distribution for (n,n\*3)



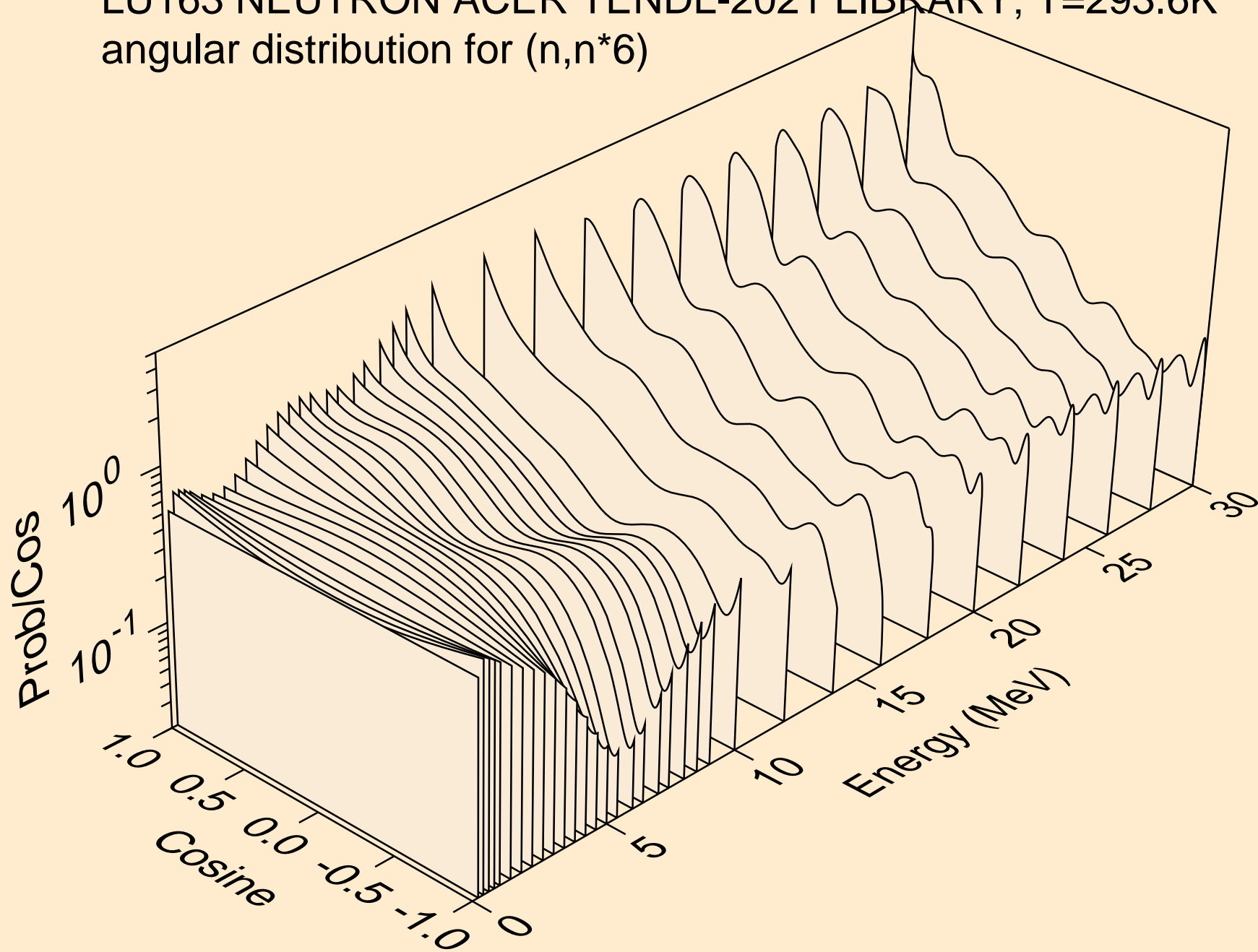
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)

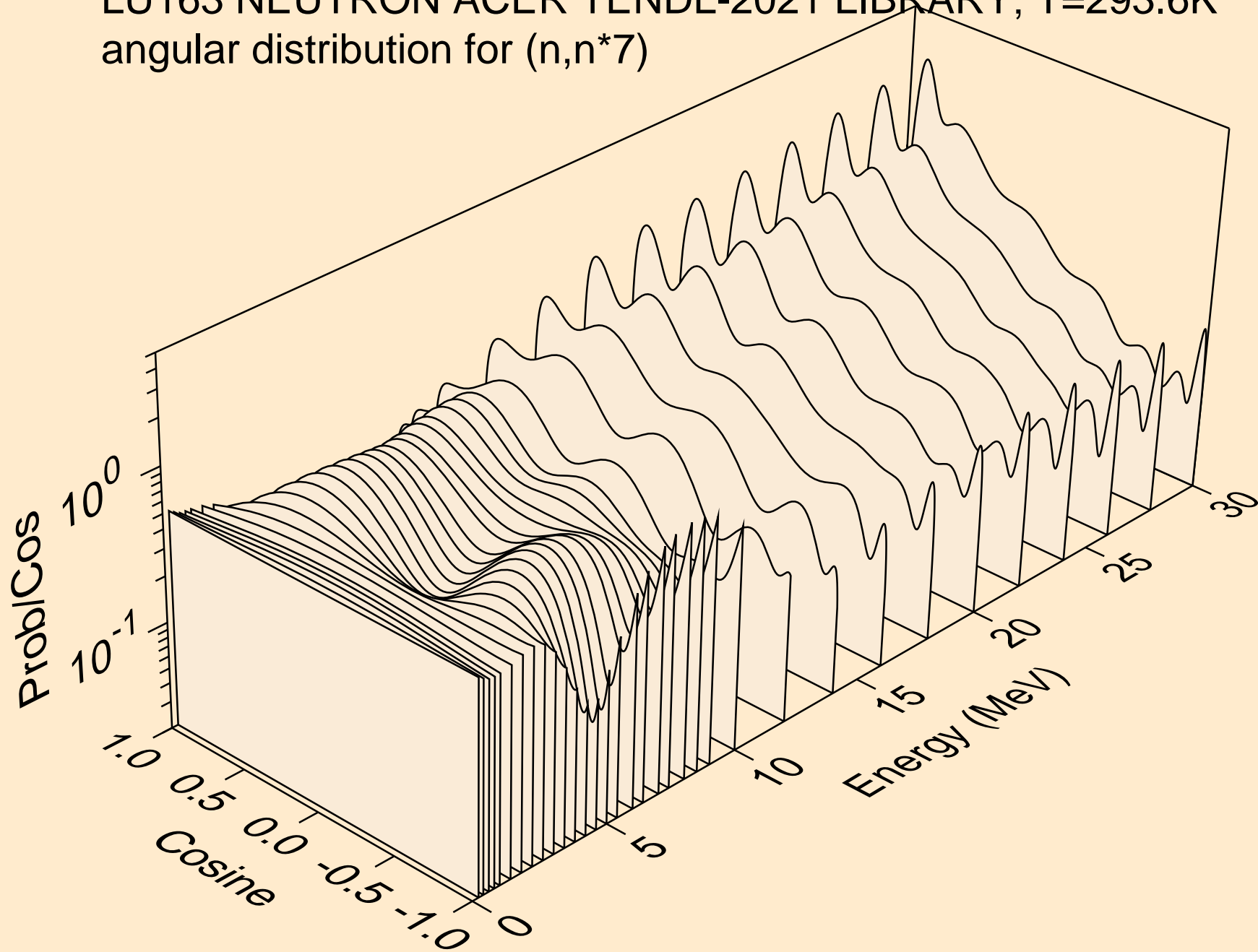


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angular distribution for (n,n\*6)

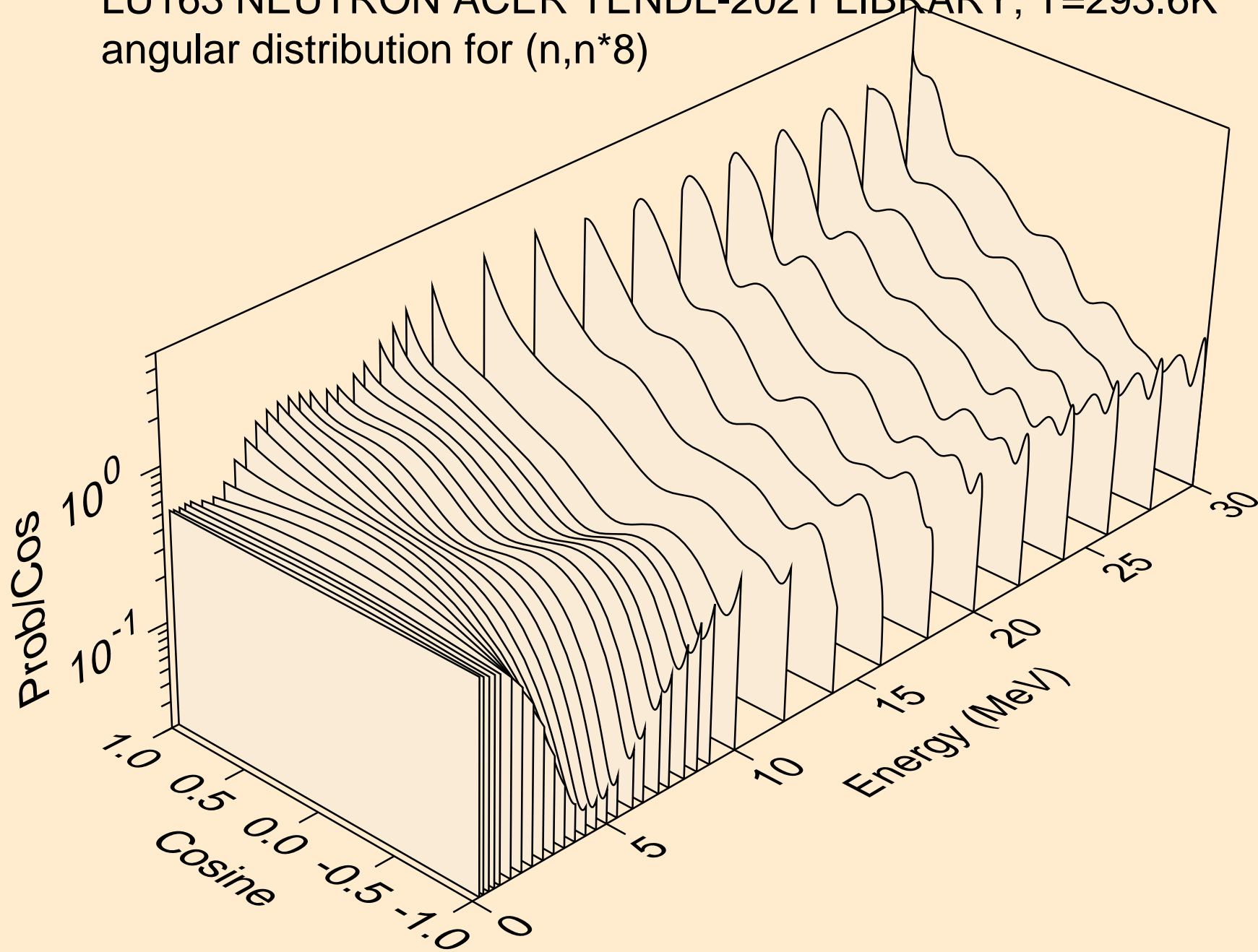




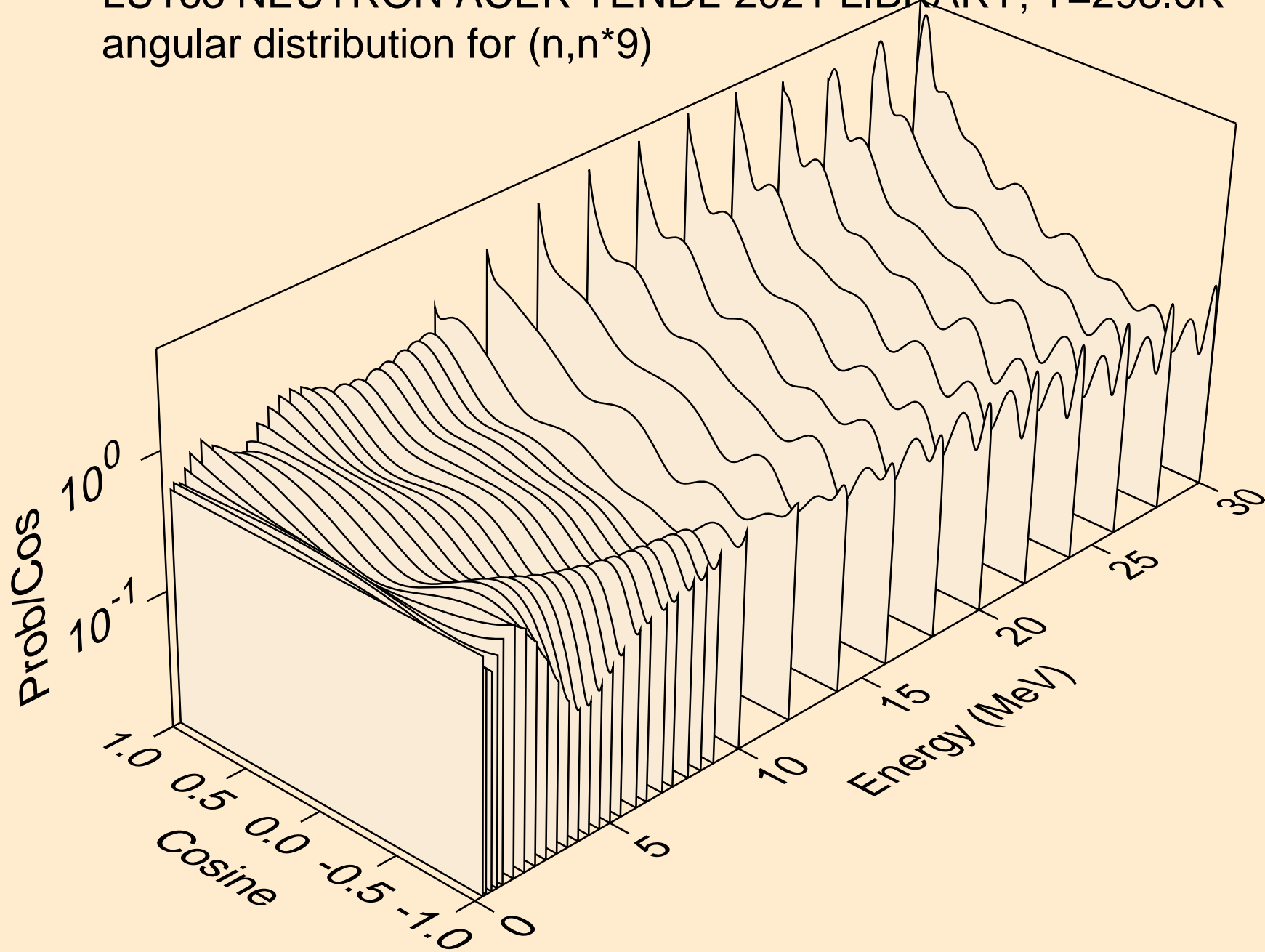
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angular distribution for (n,n\*7)



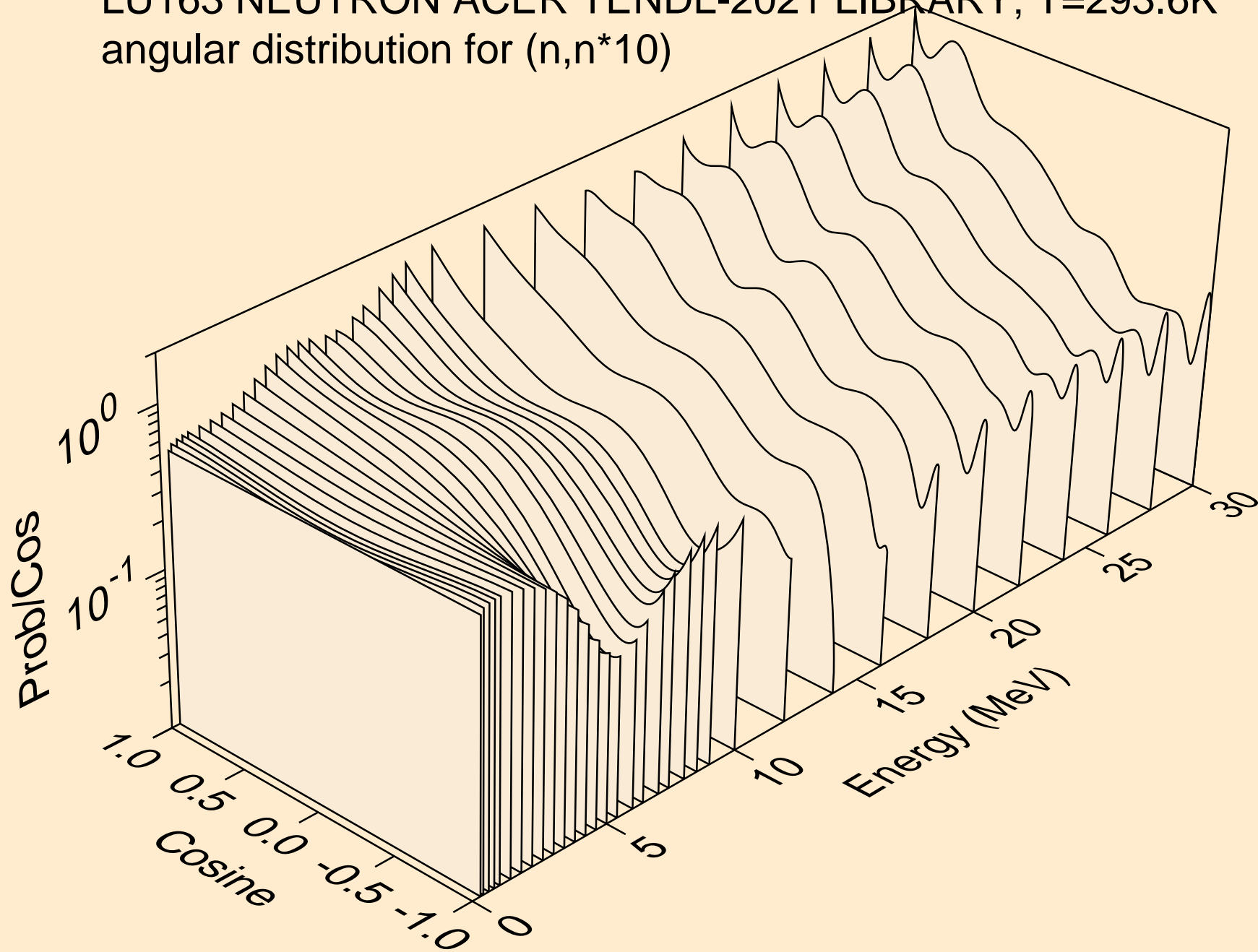
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angular distribution for (n,n\*8)



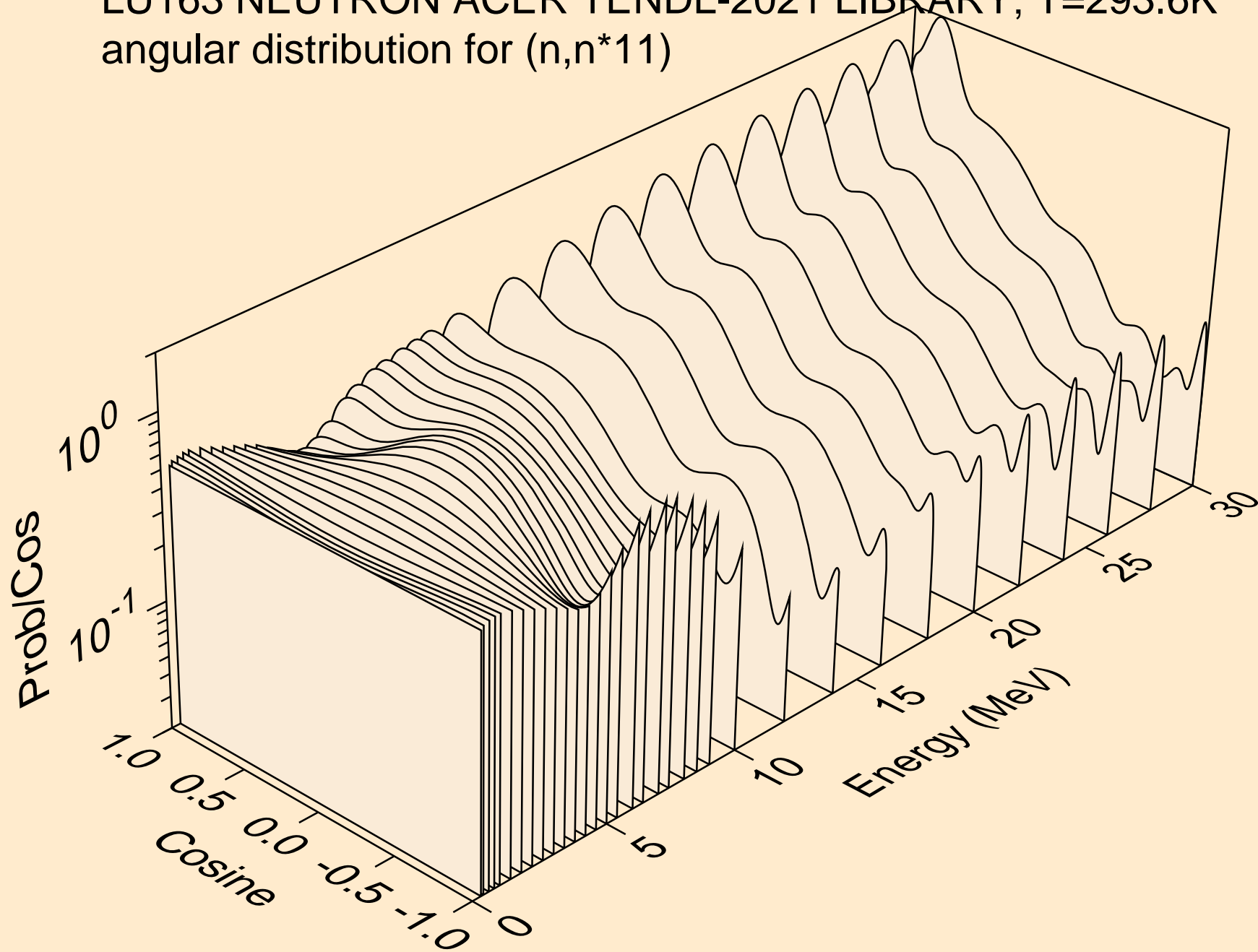
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angular distribution for (n,n\*9)



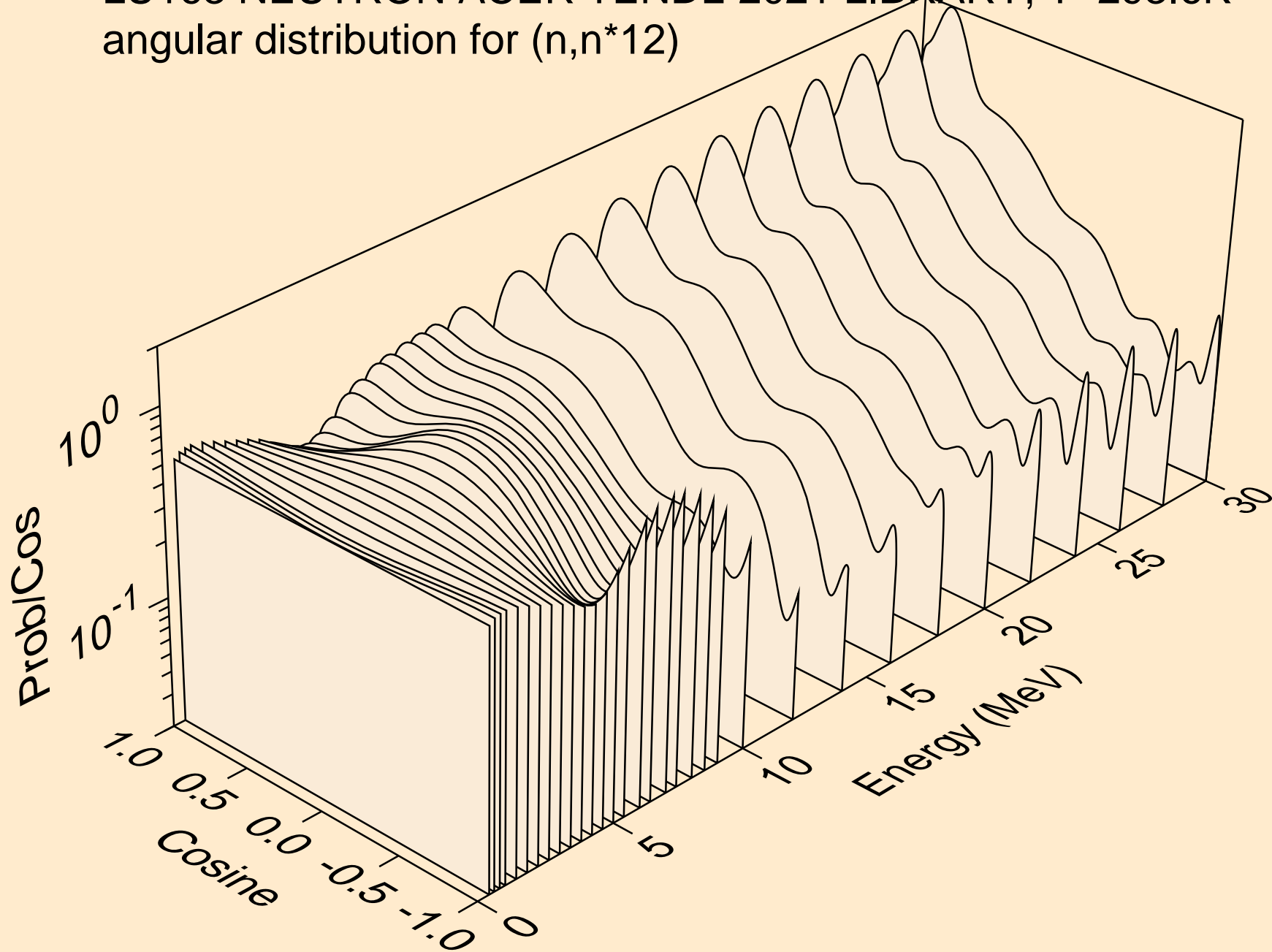
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angular distribution for (n,n\*10)



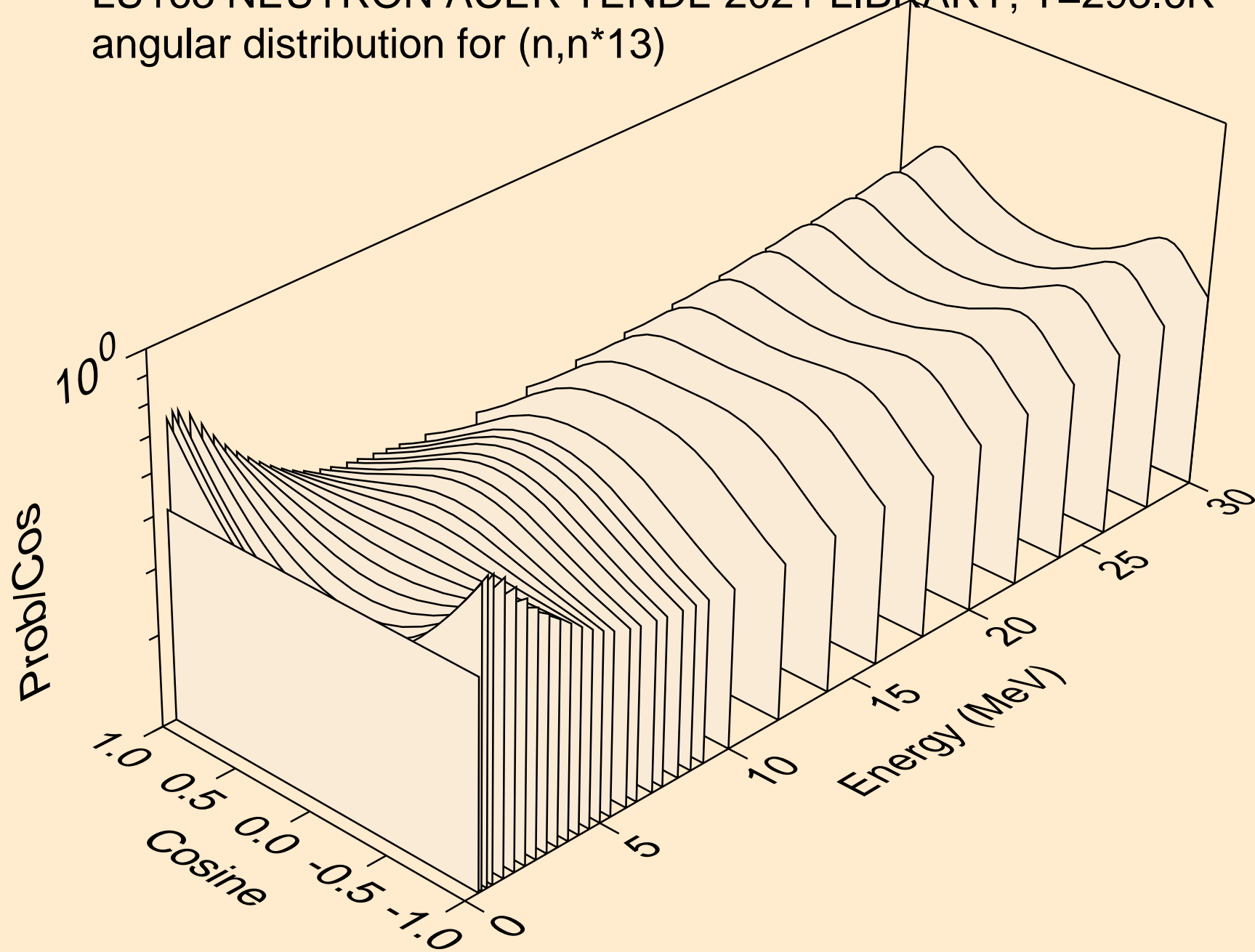
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angular distribution for (n,n\*11)



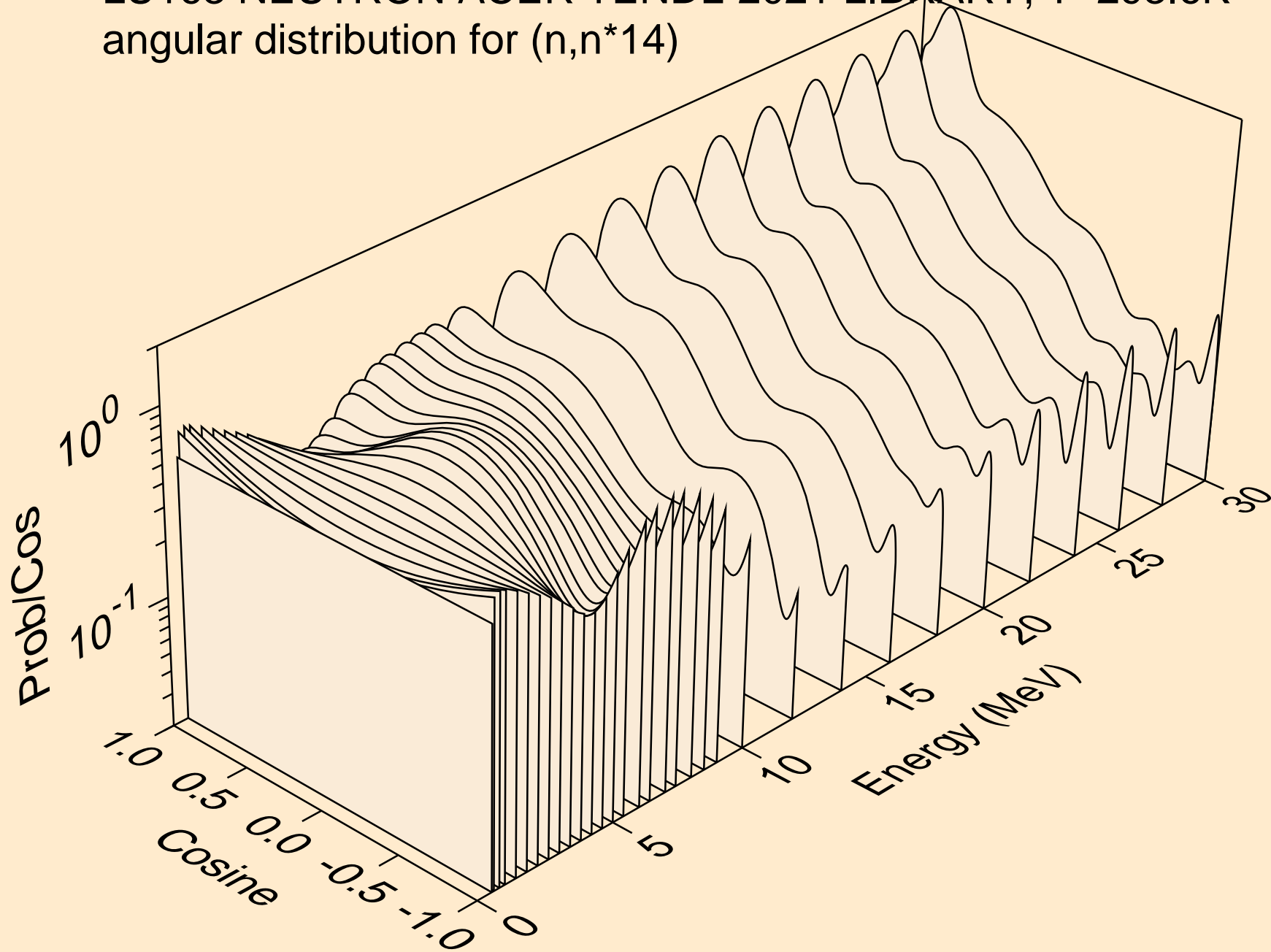
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*13)

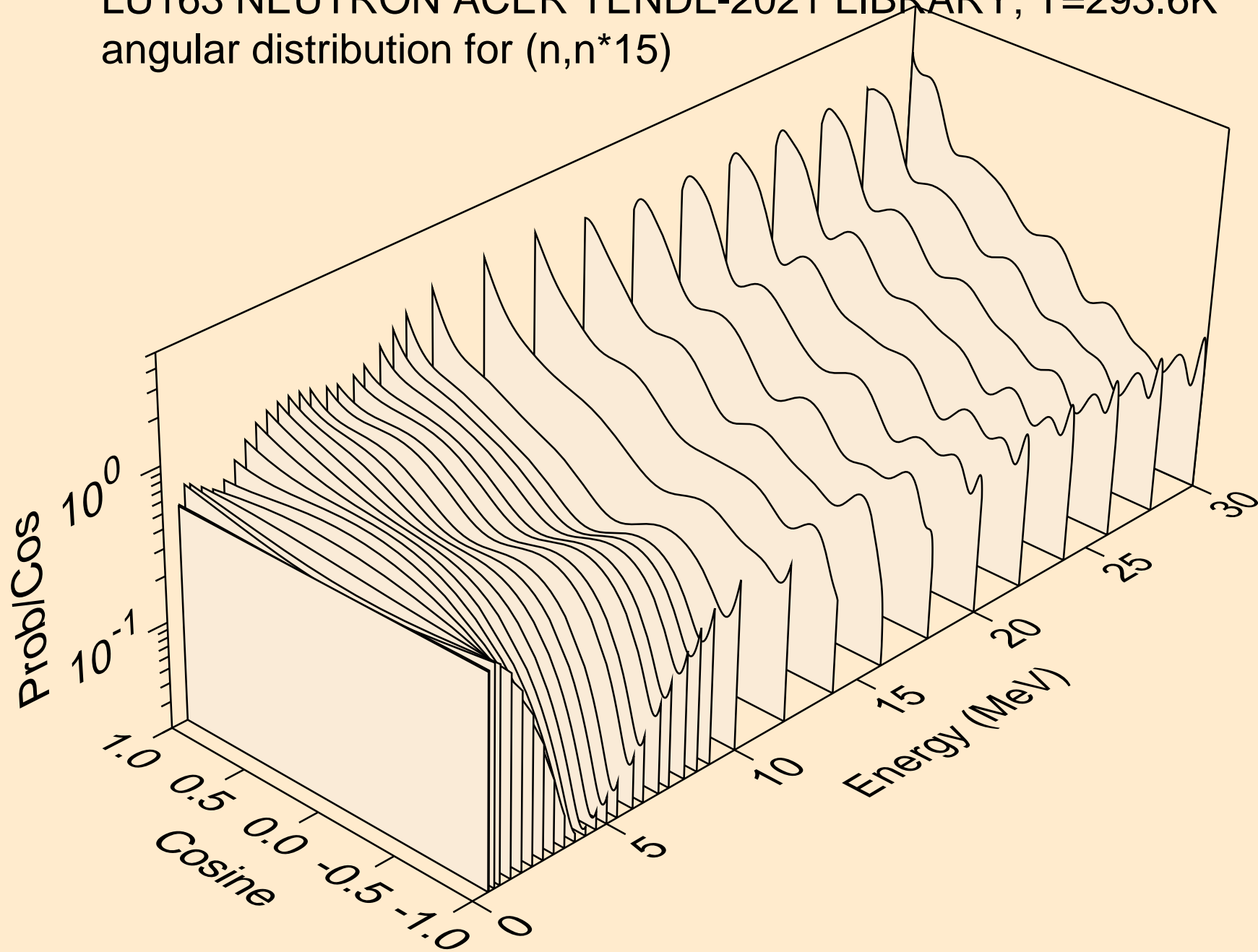


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angular distribution for (n,n\*14)

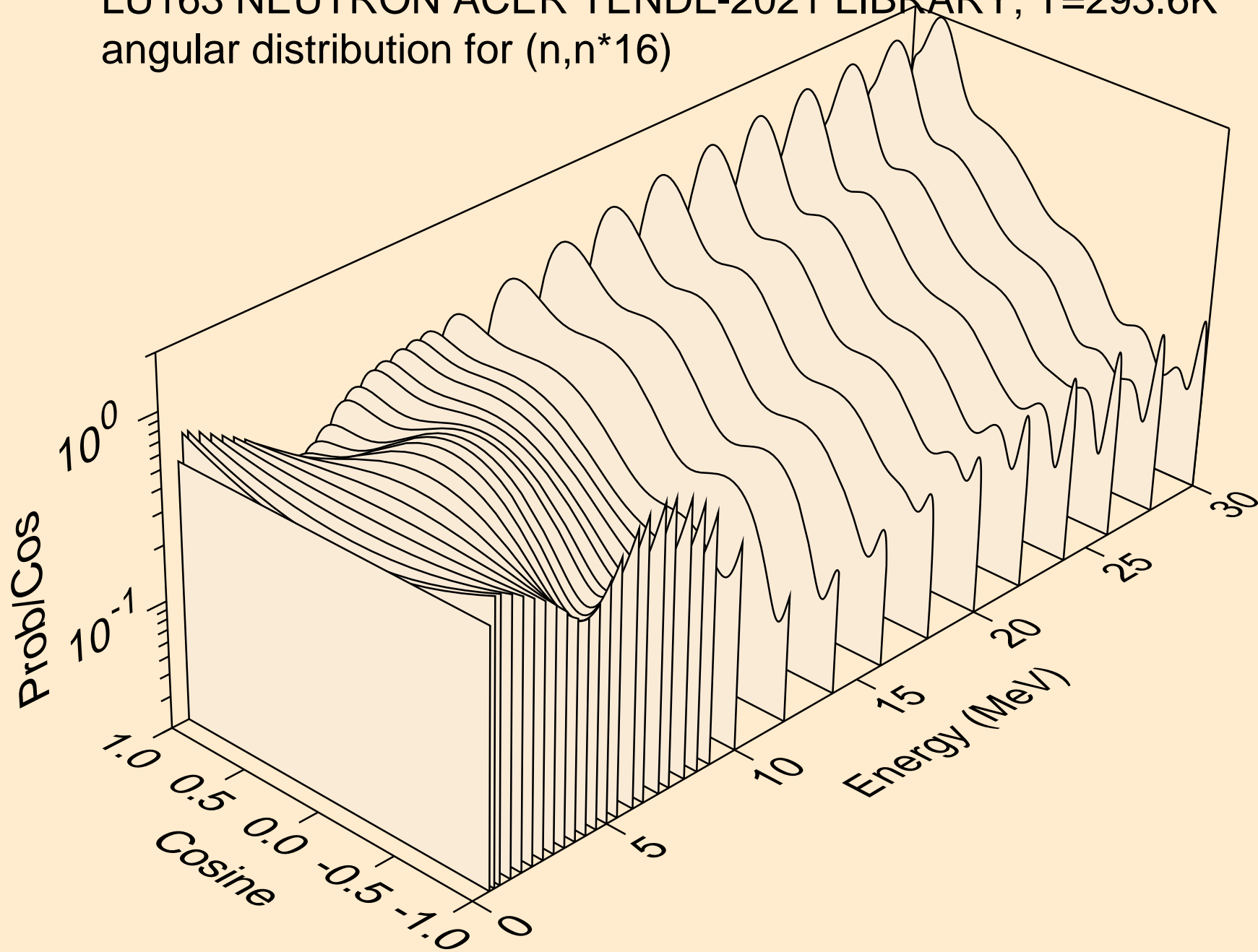




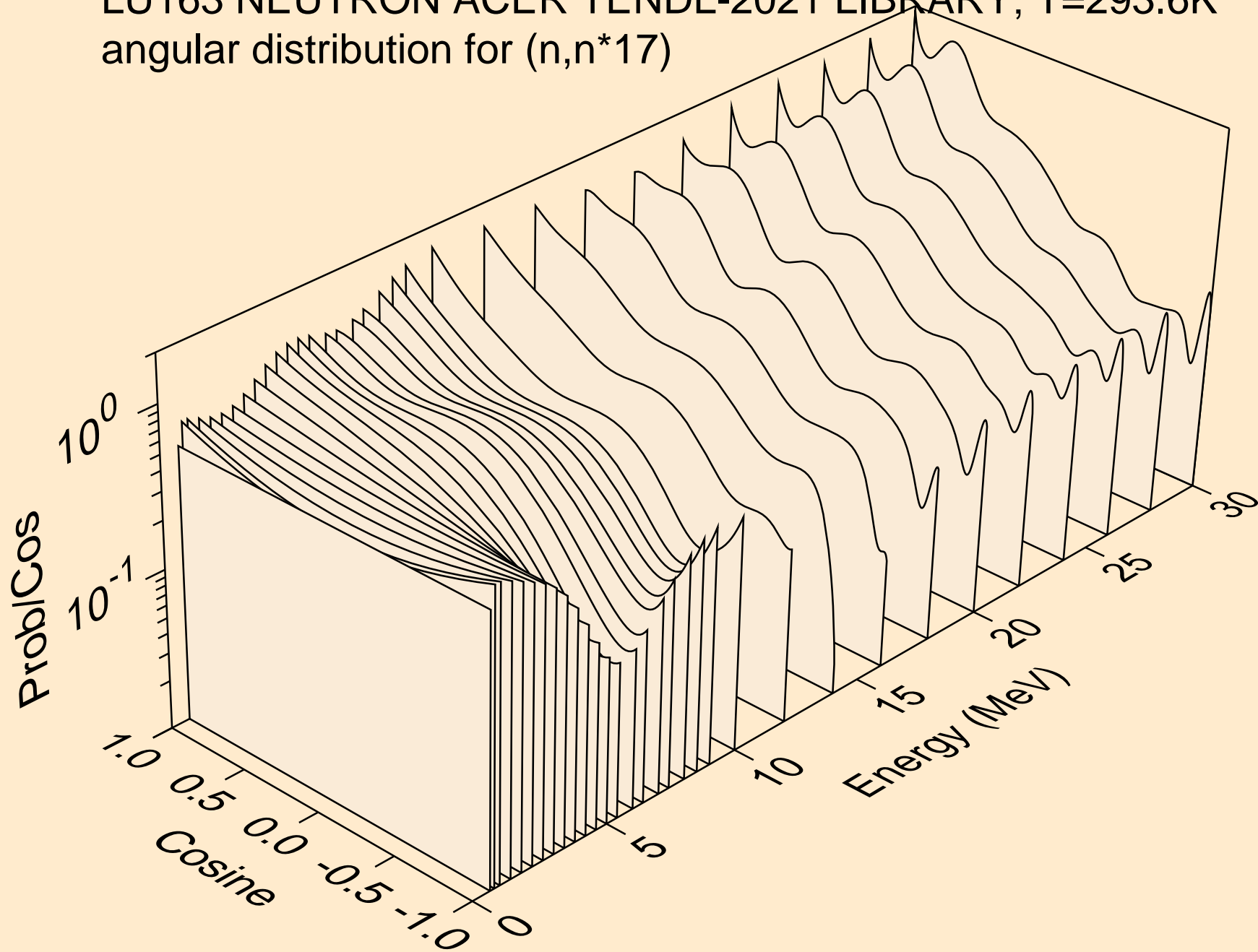
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angular distribution for (n,n\*15)



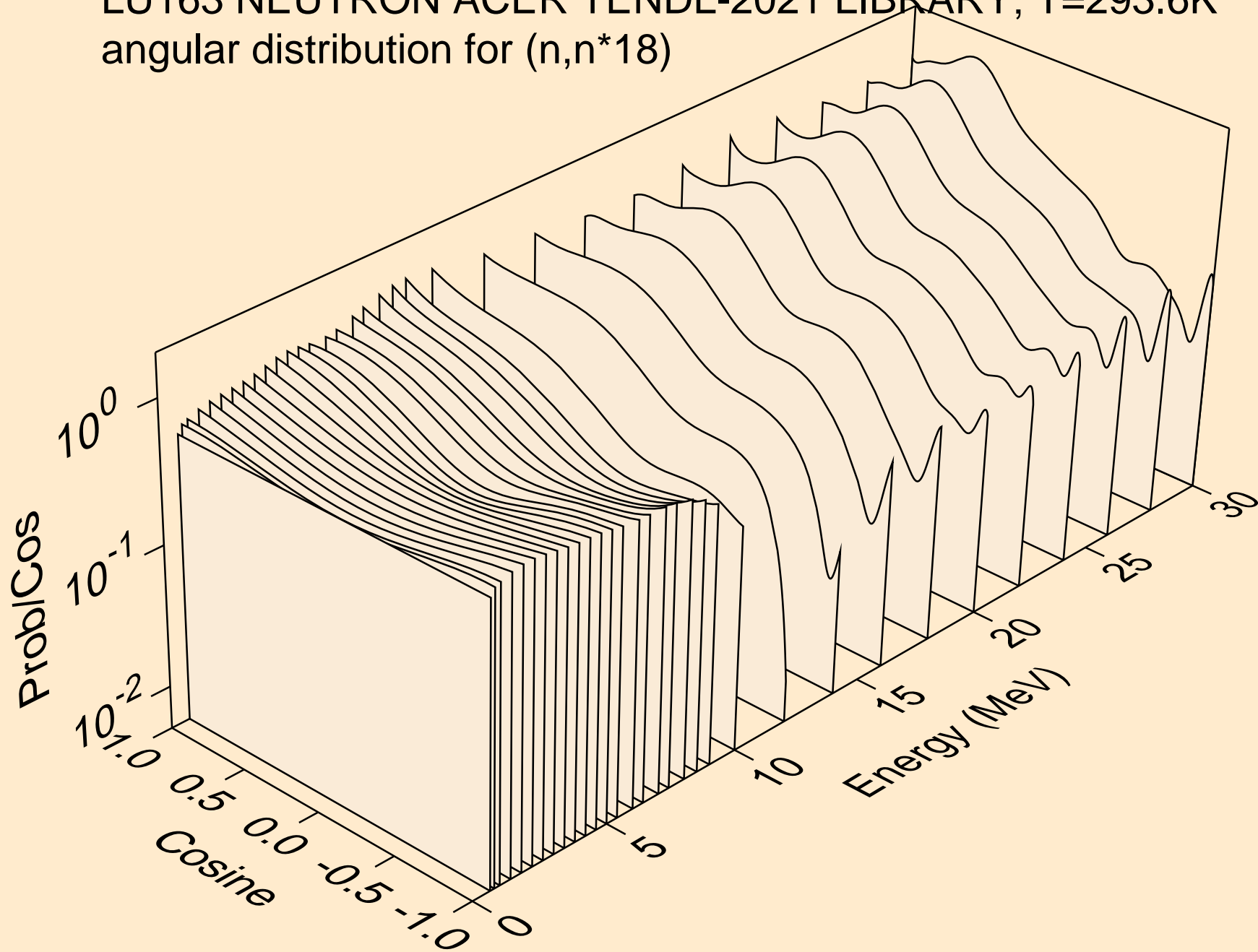
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angular distribution for (n,n\*16)



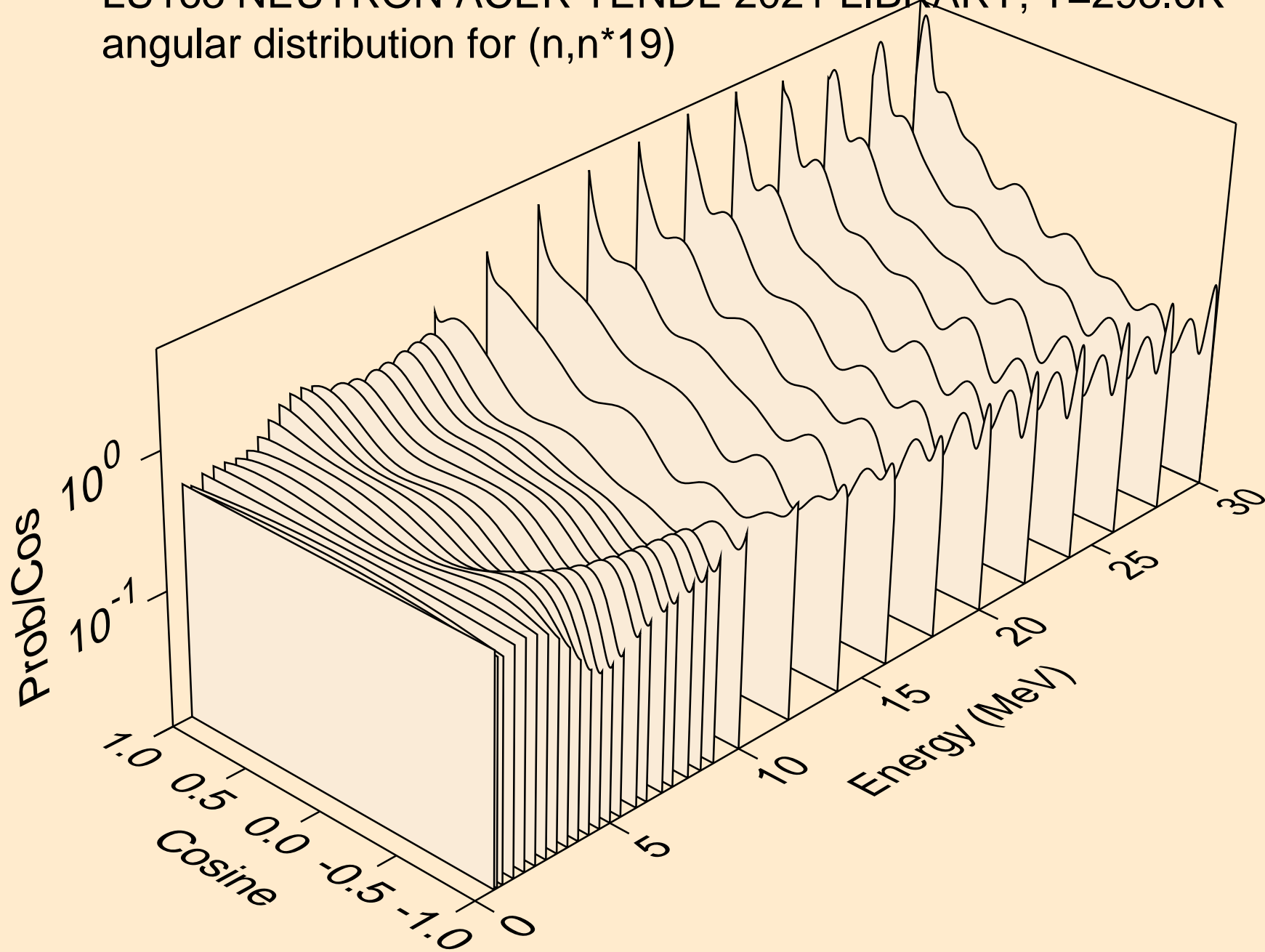
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angular distribution for (n,n\*17)



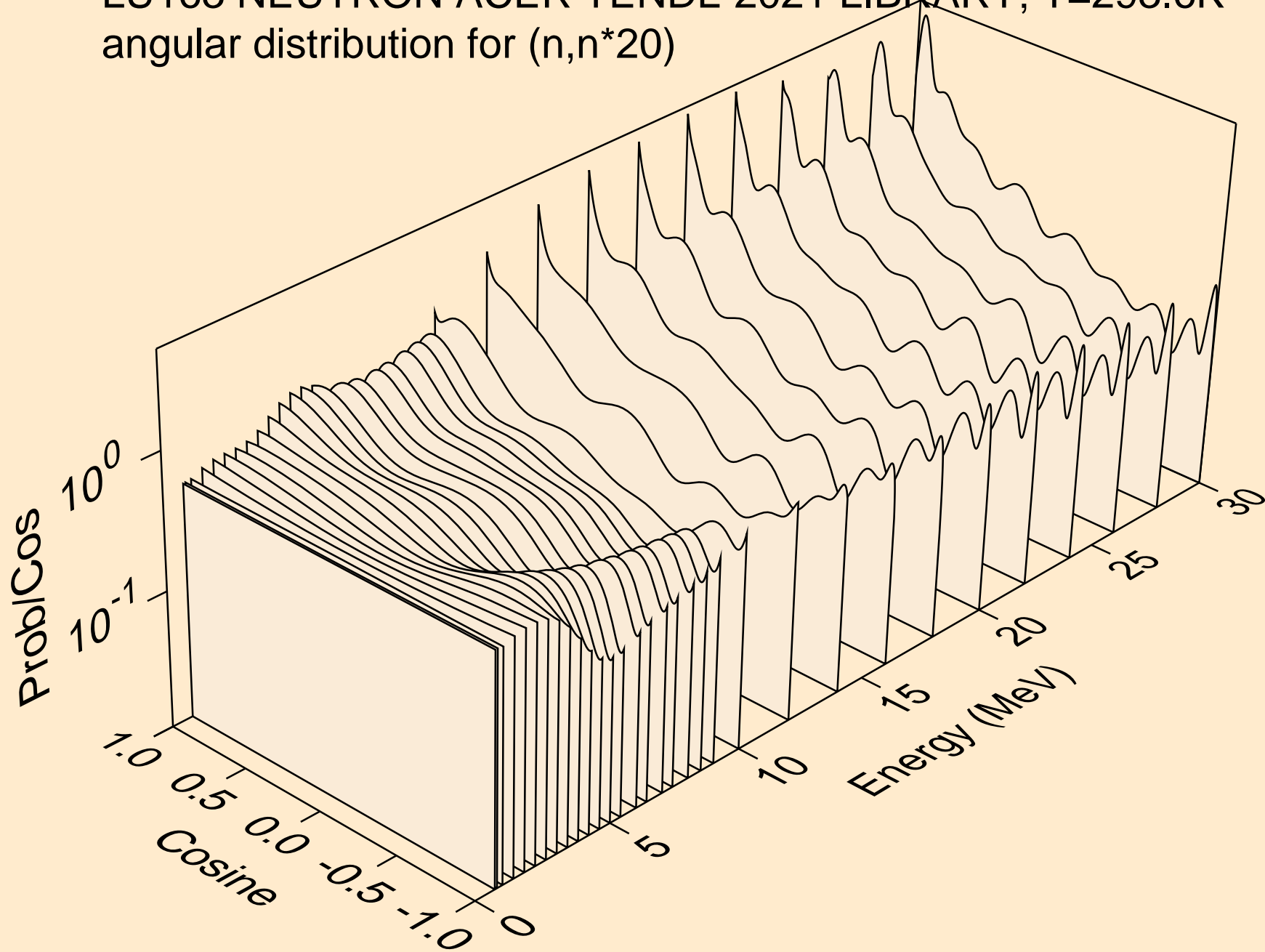
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angular distribution for (n,n\*18)



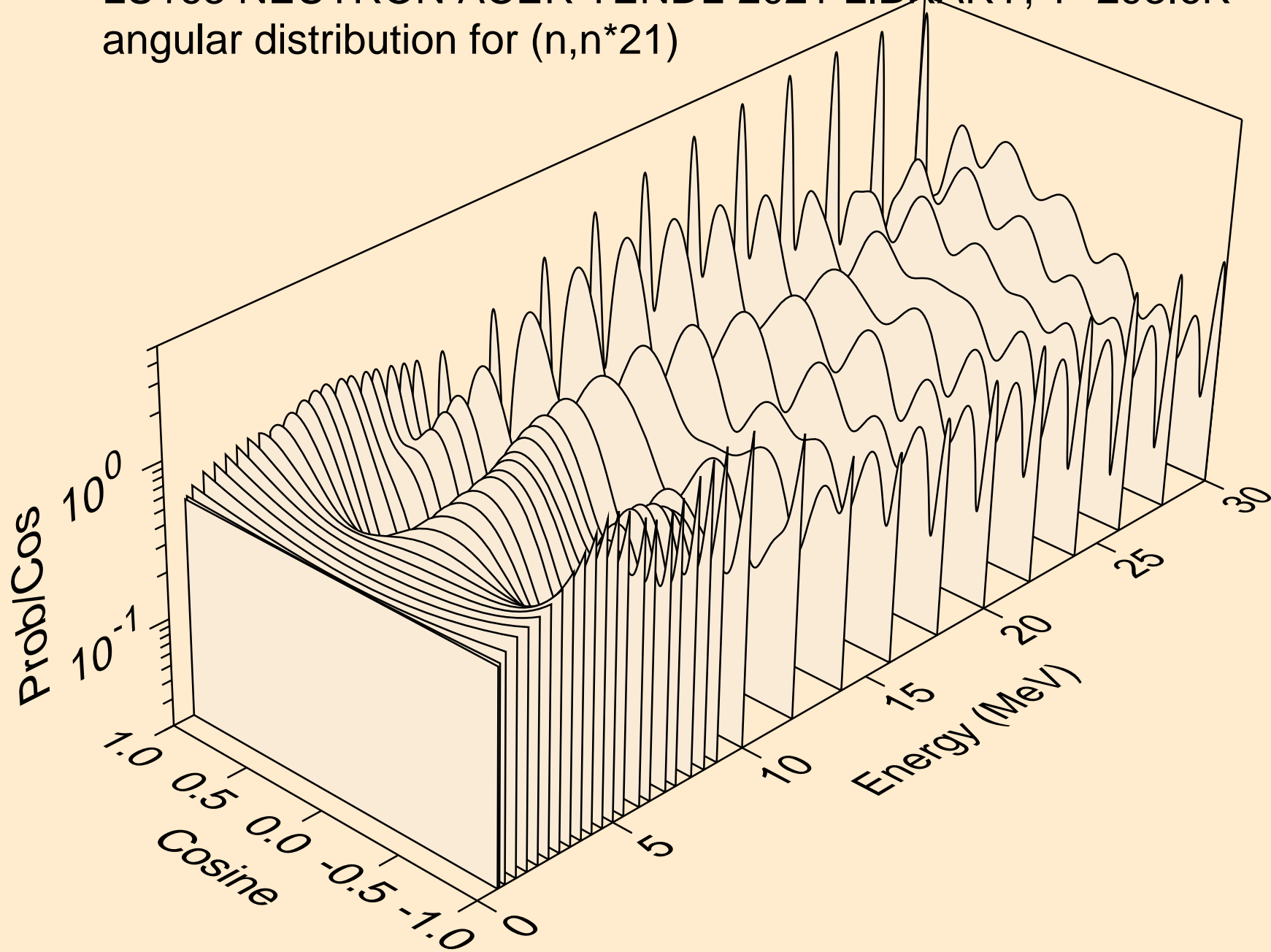
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angular distribution for (n,n\*19)



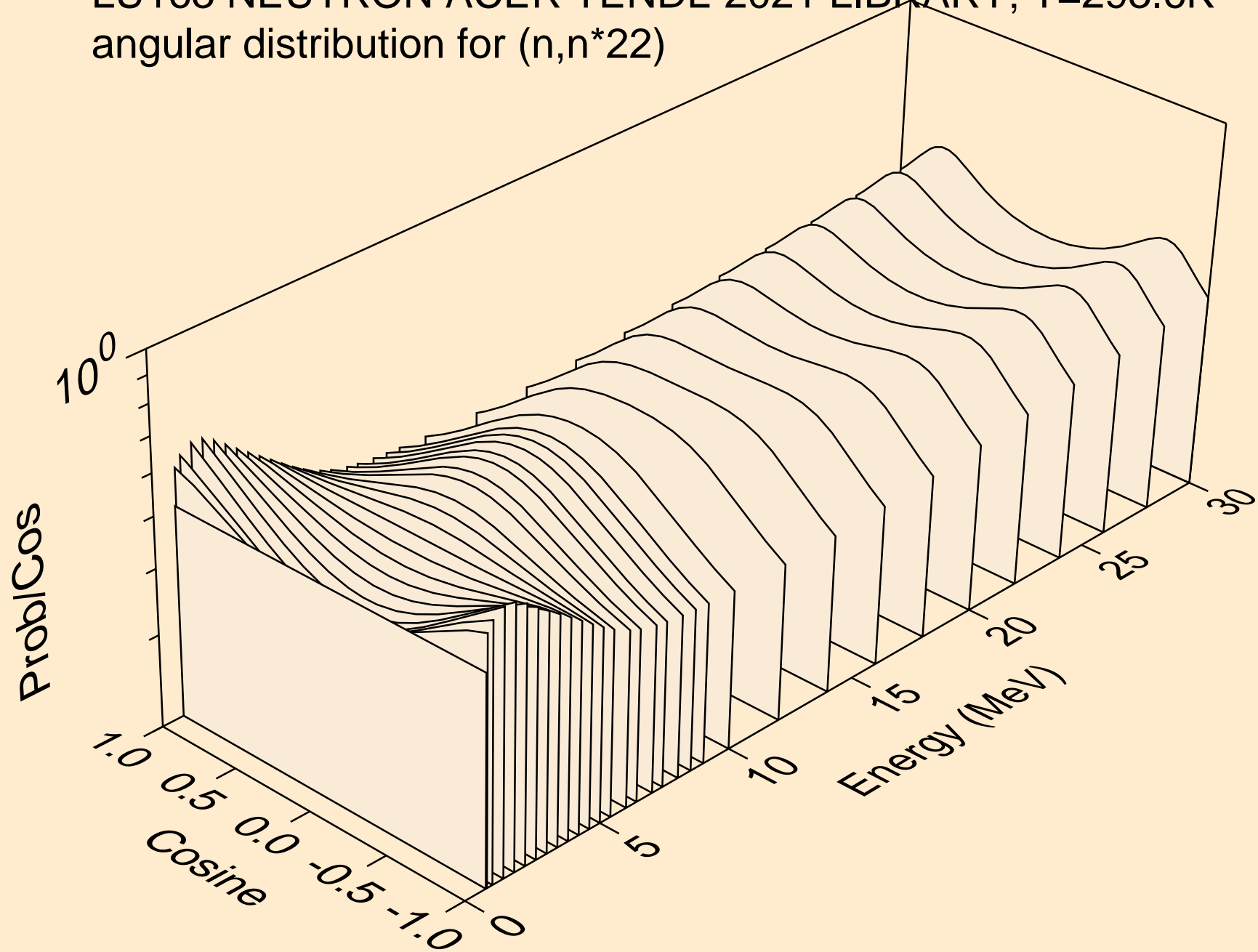
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*20)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*21)

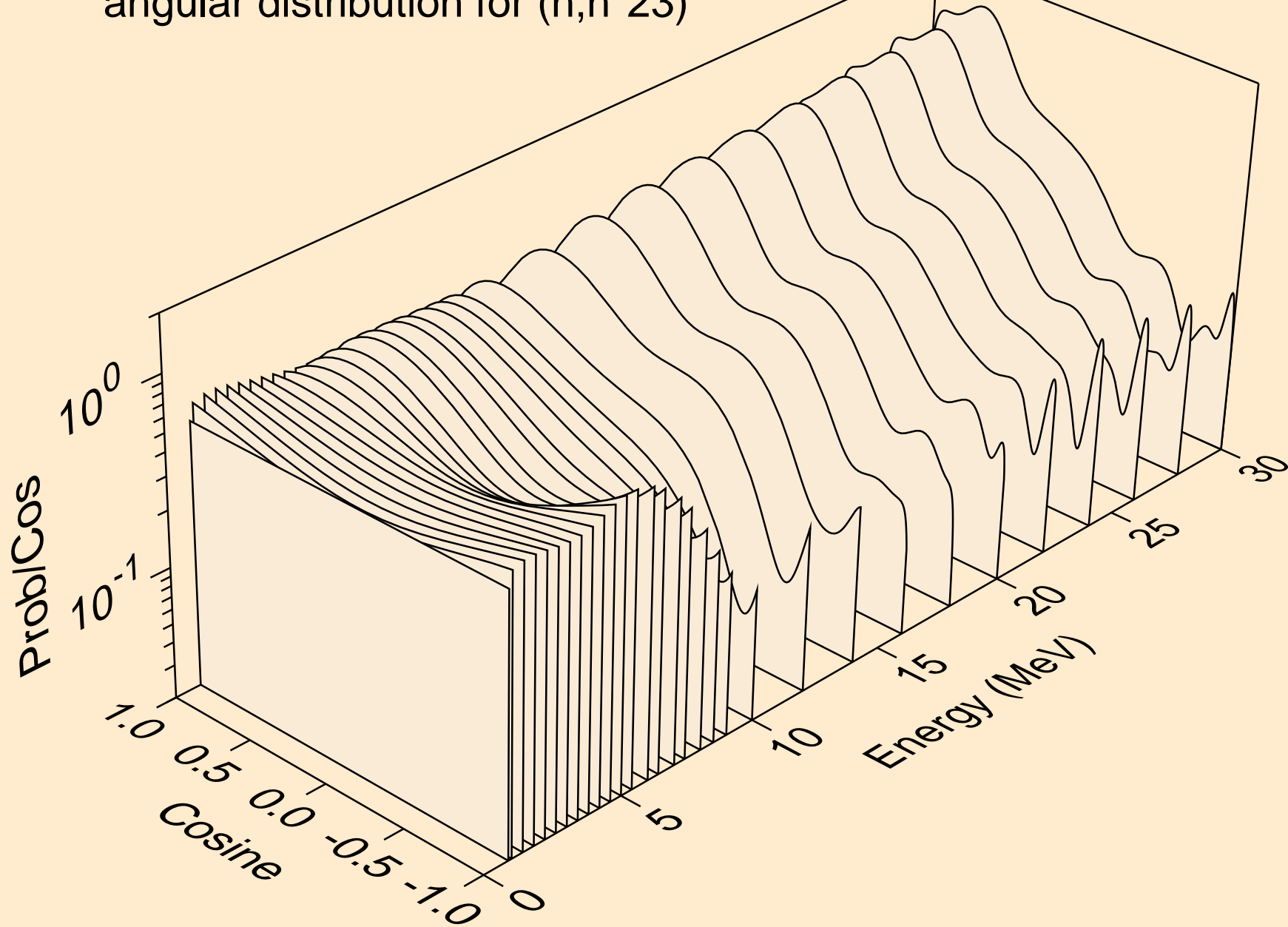


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angular distribution for (n,n\*22)

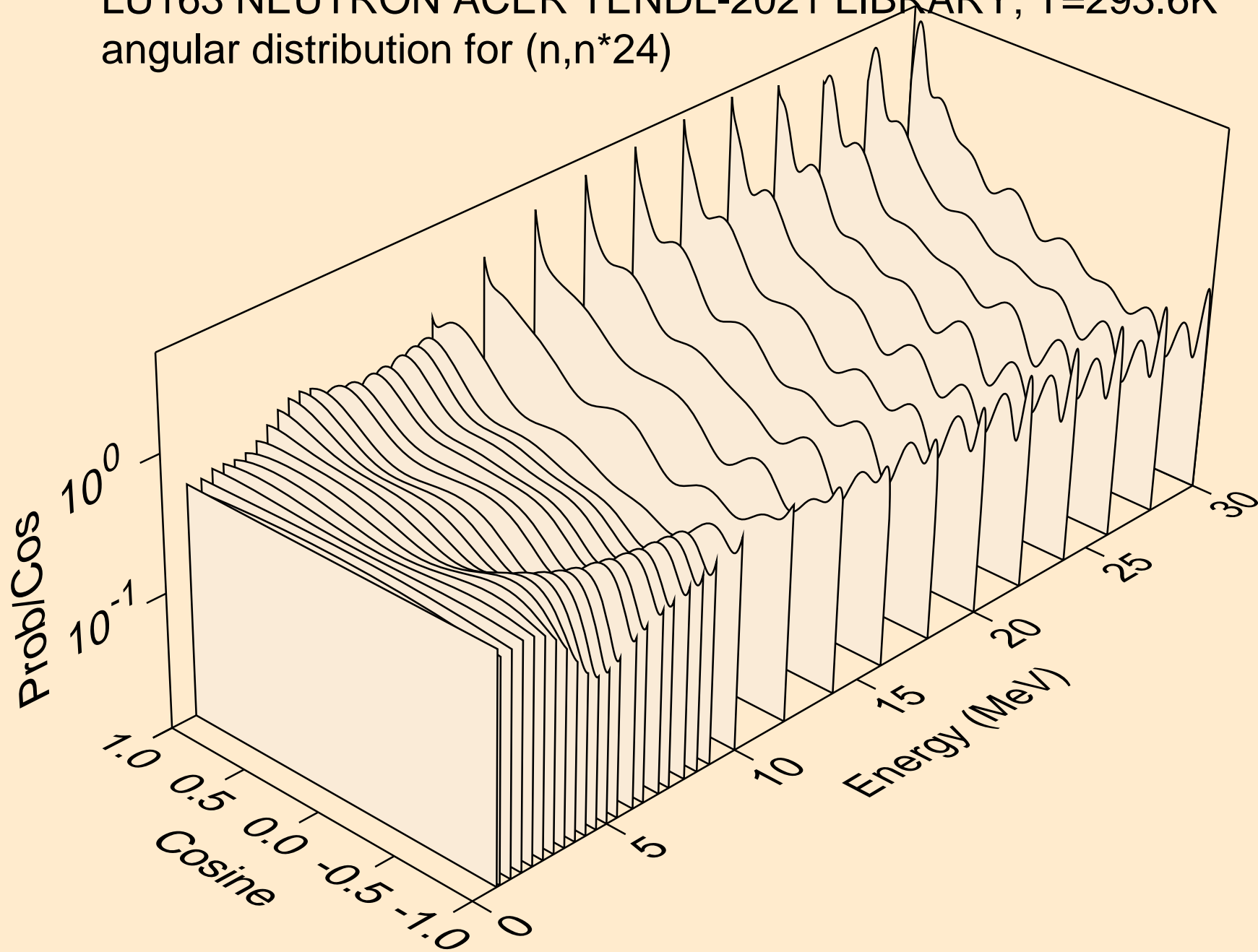




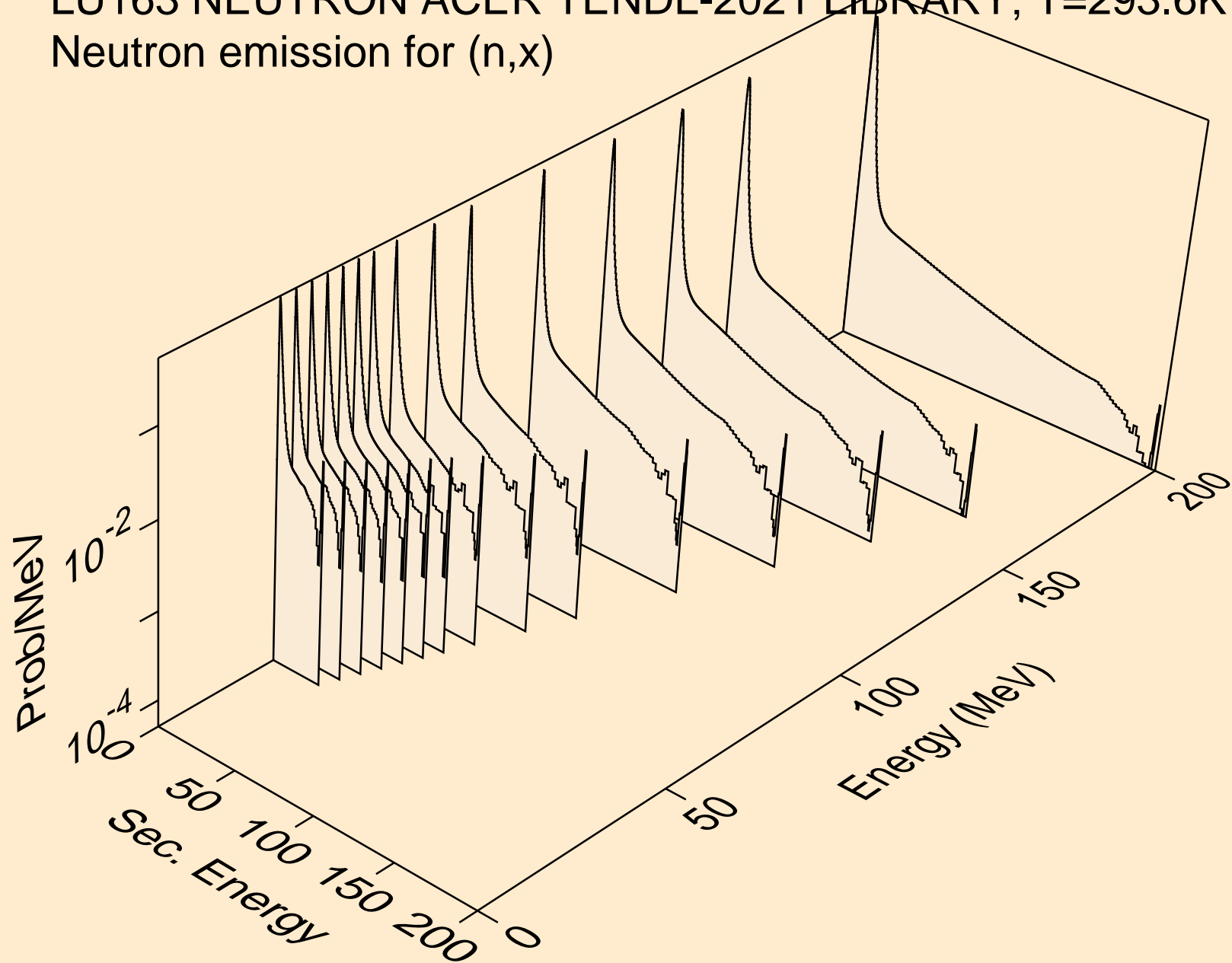
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angular distribution for (n,n\*23)



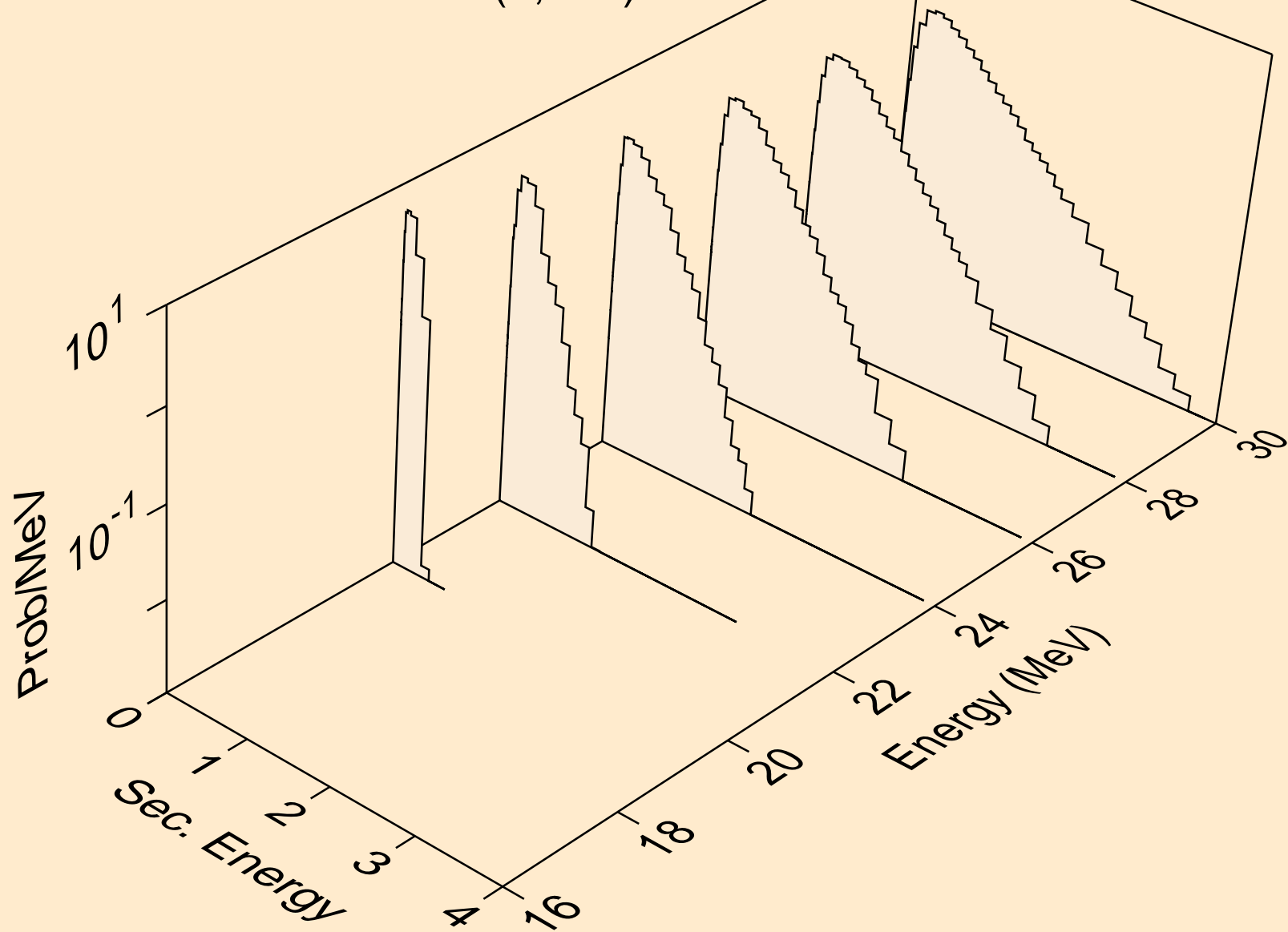
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angular distribution for (n,n\*24)



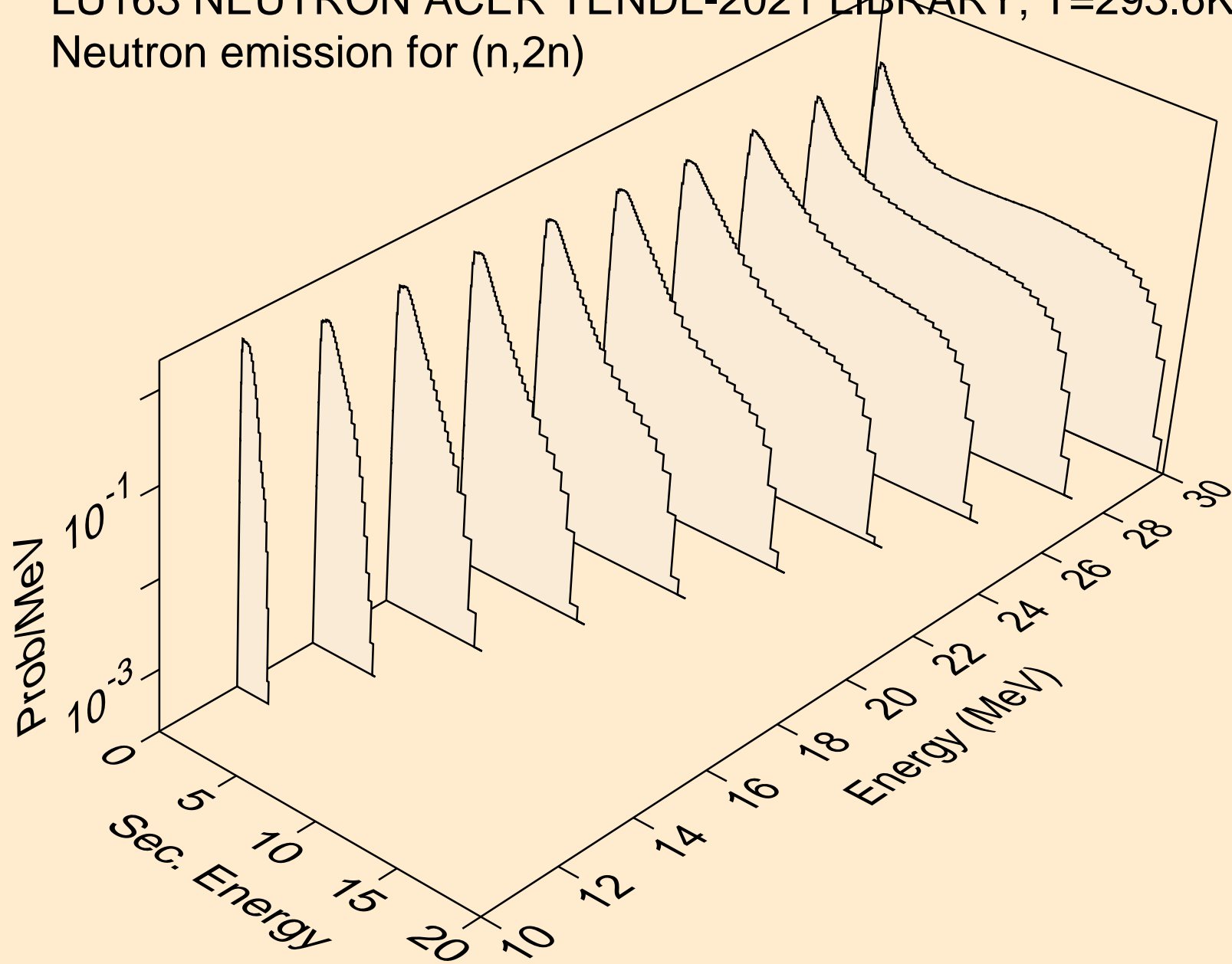
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



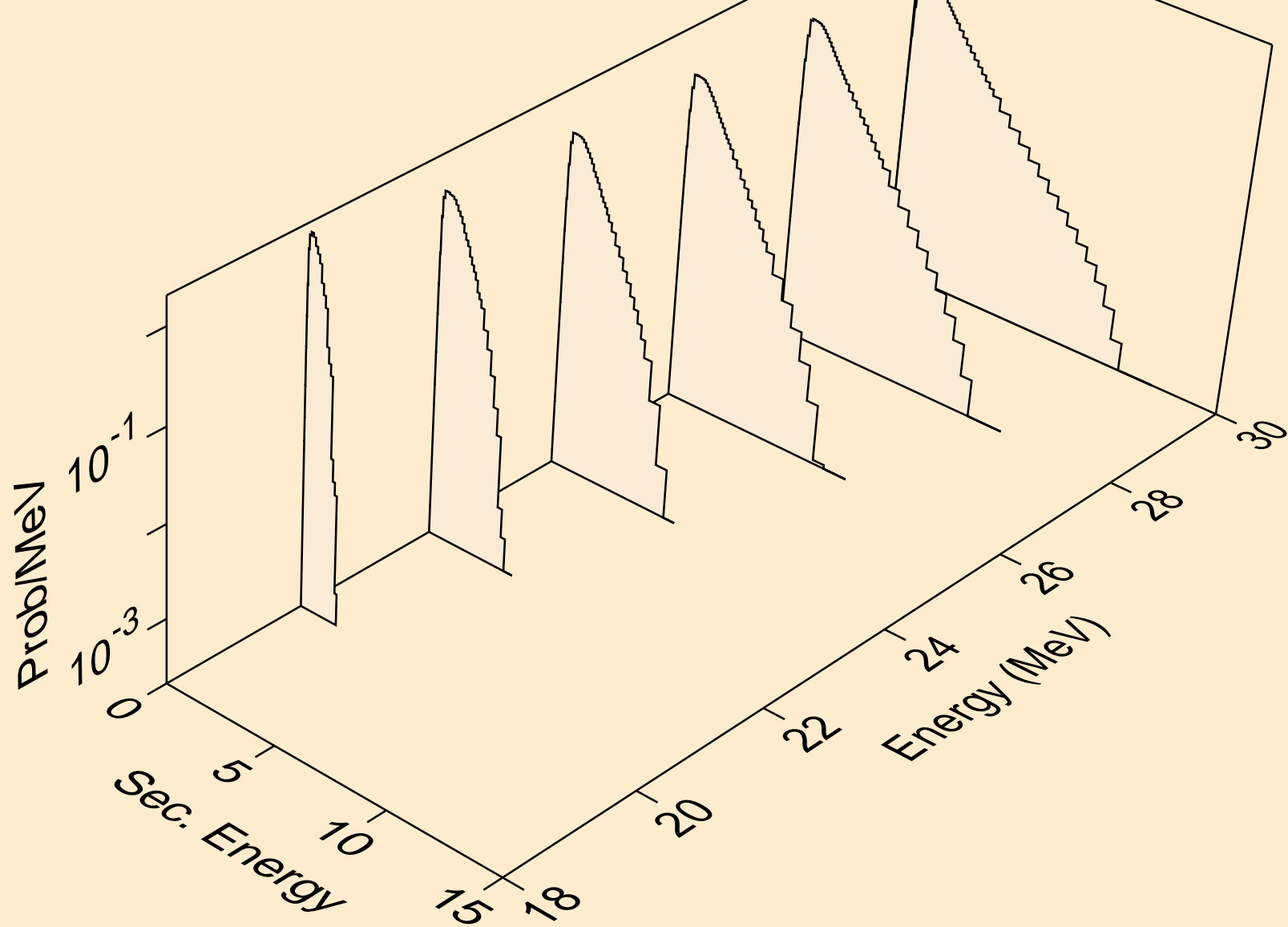
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



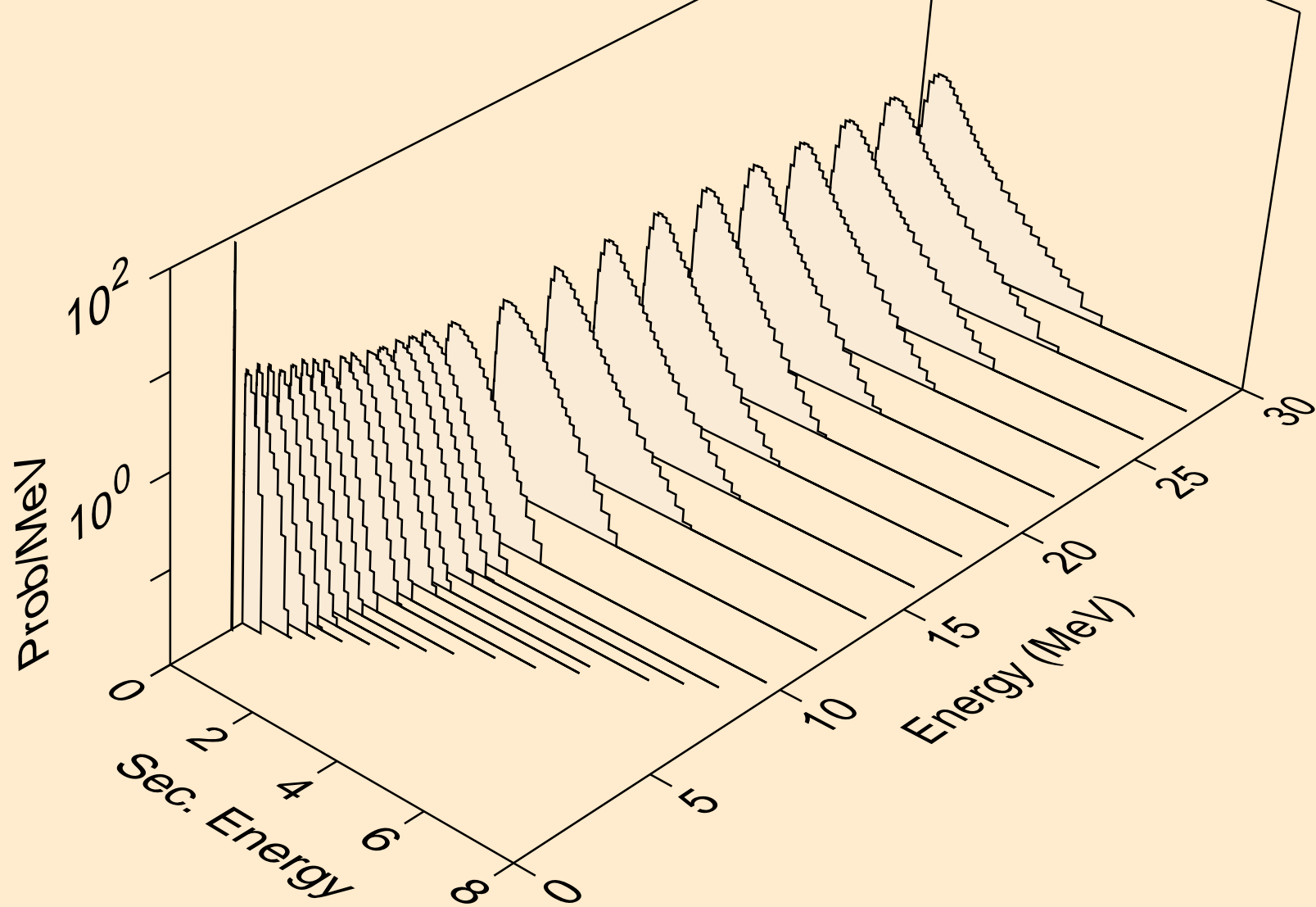
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



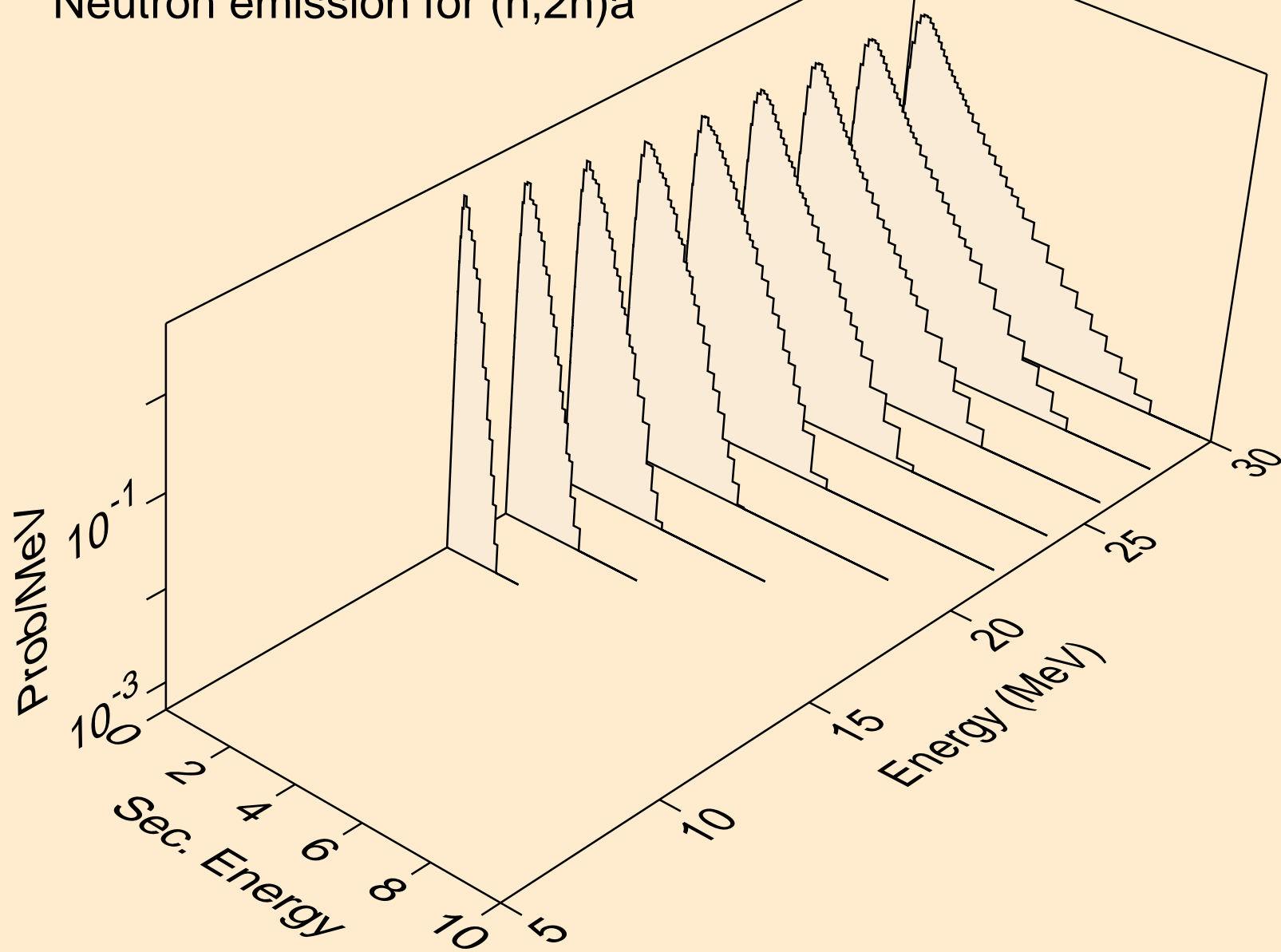
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a

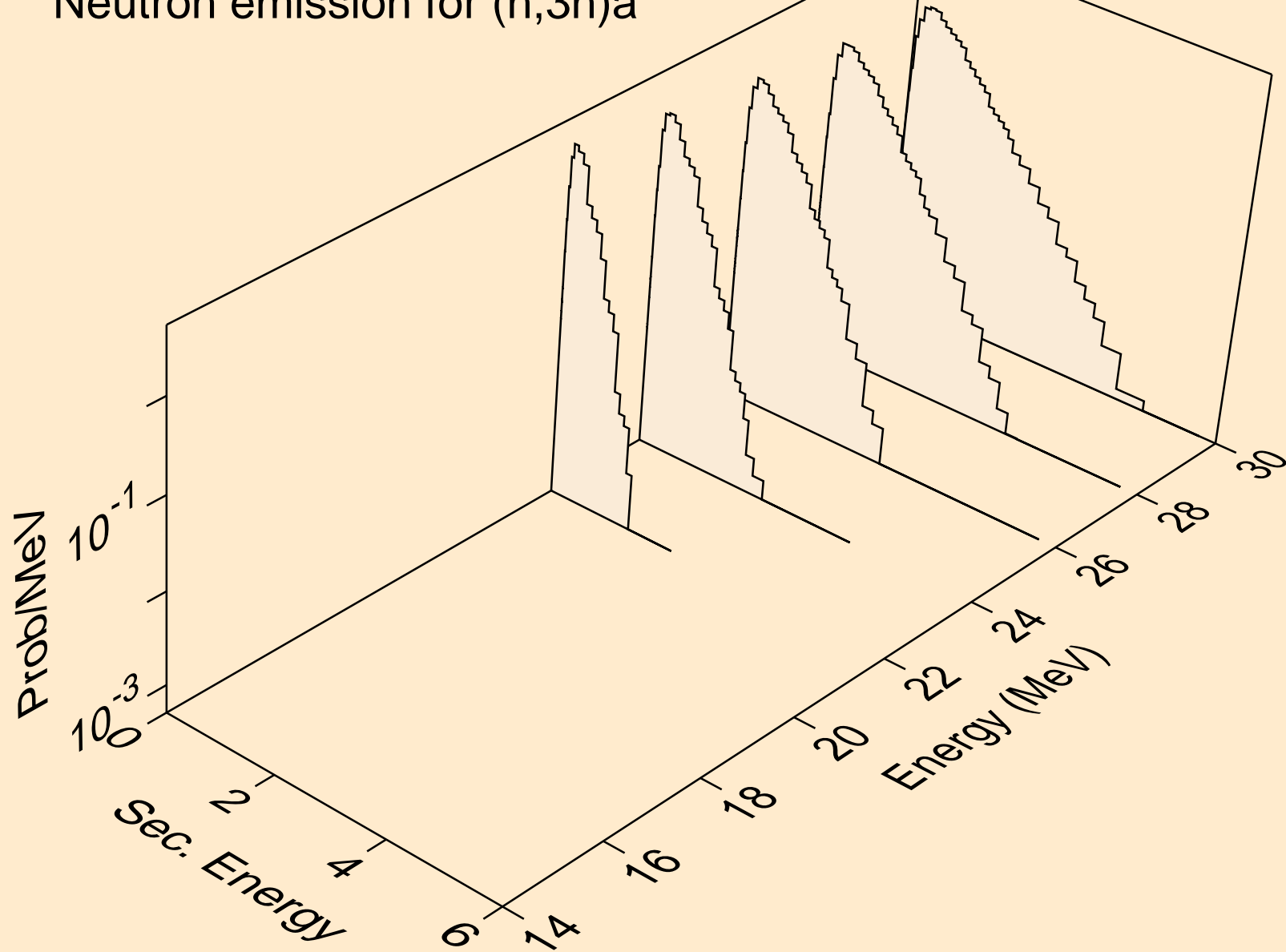


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>

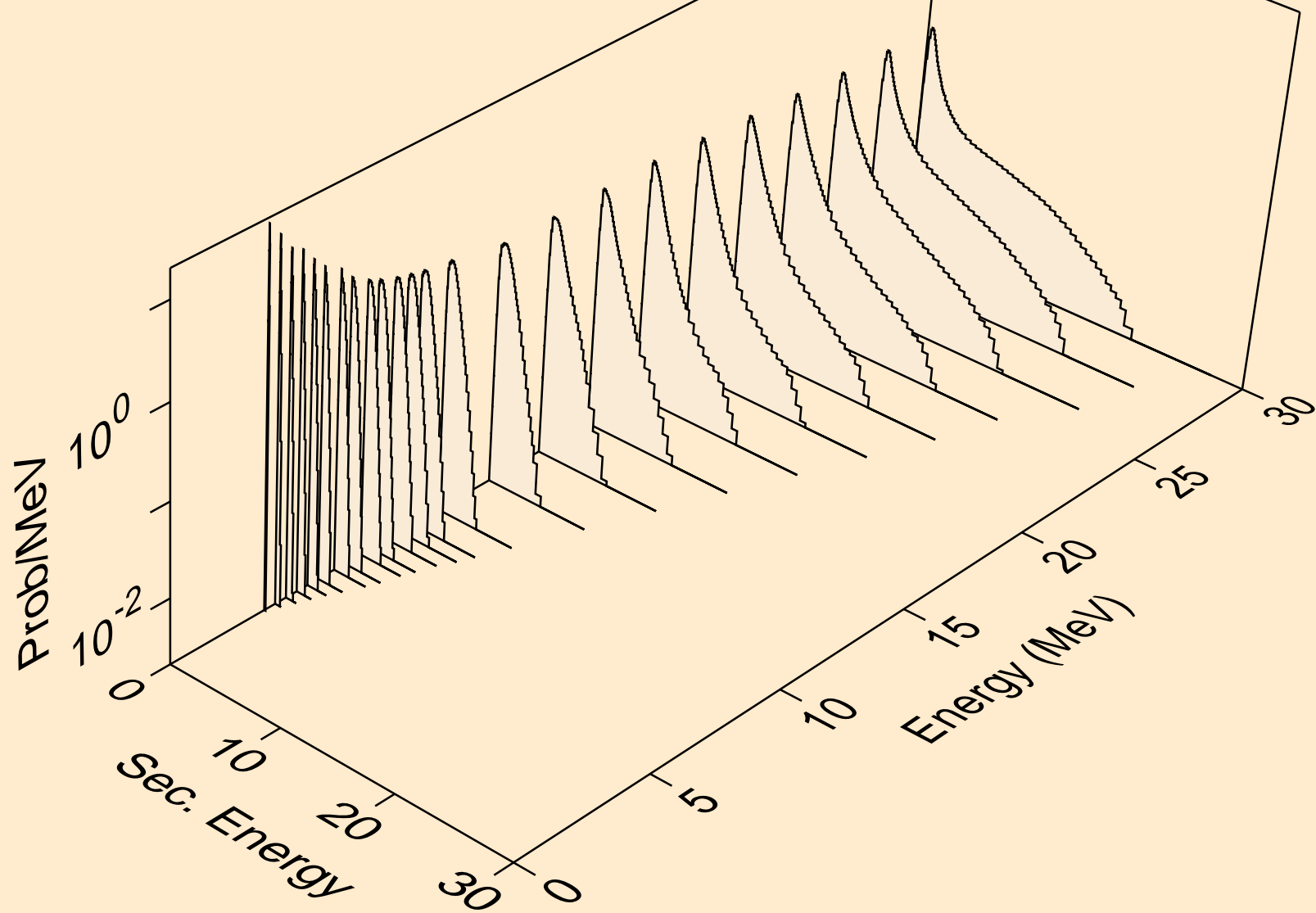




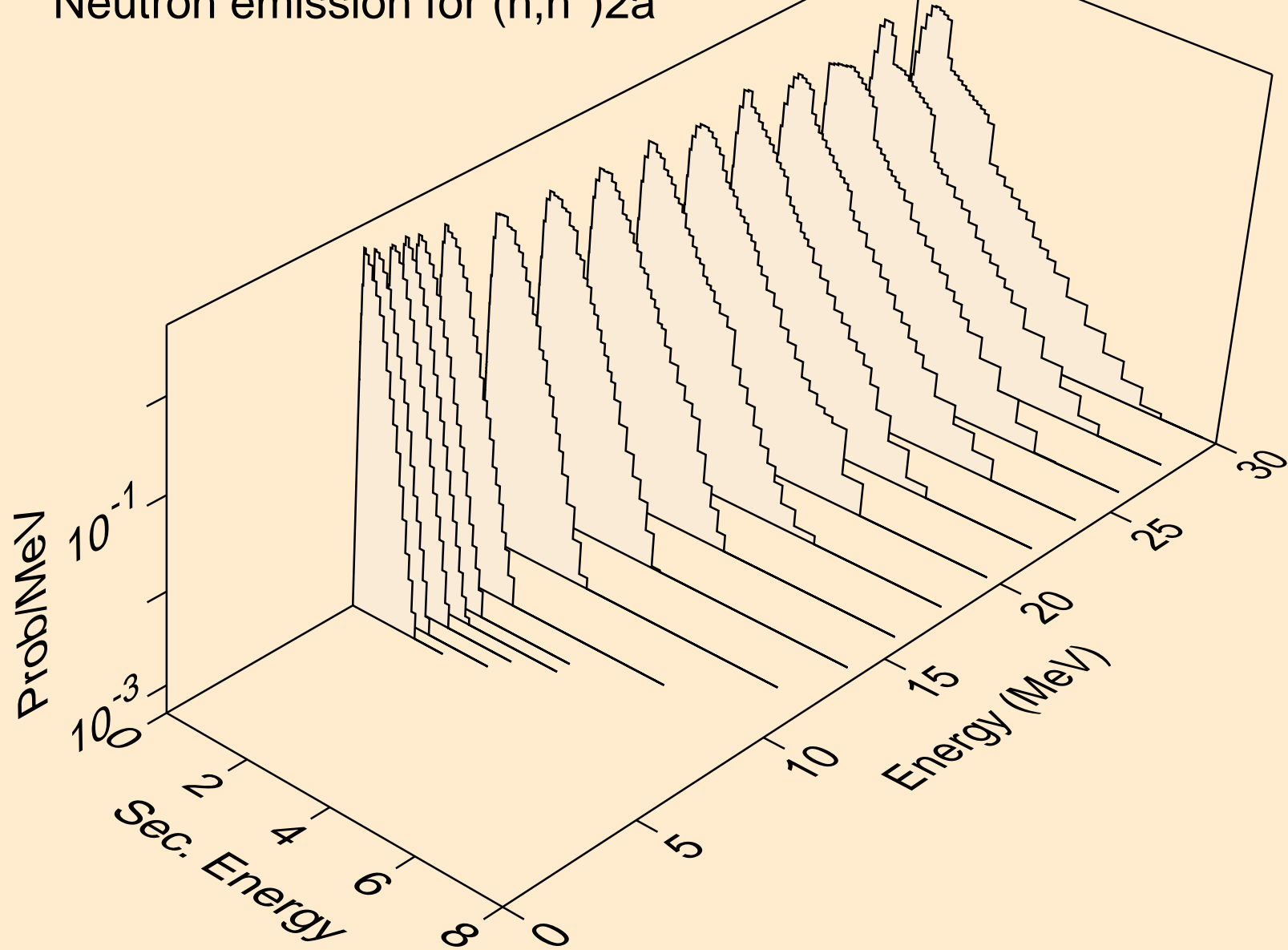
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Neutron emission for (n,3n)a



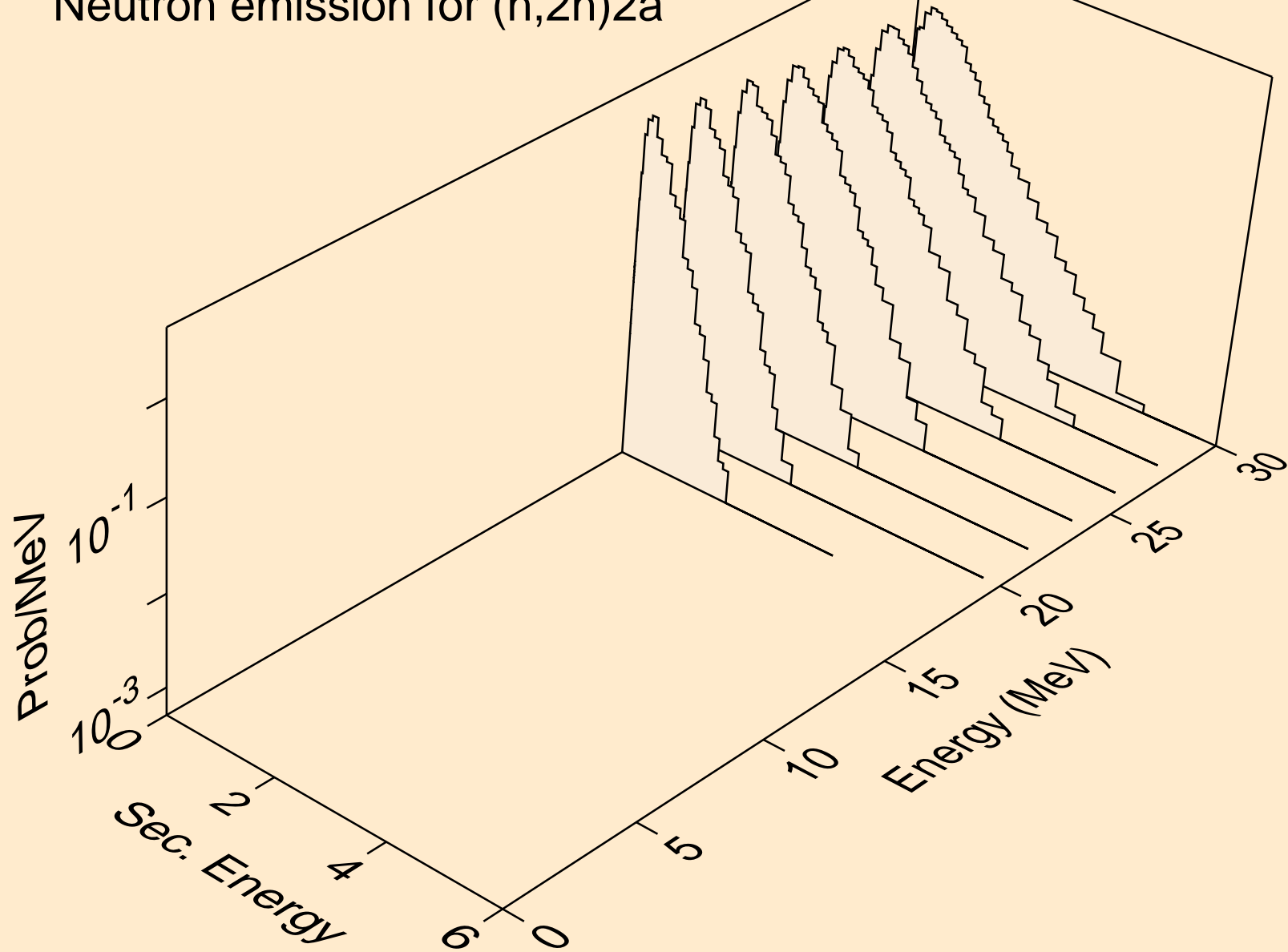
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



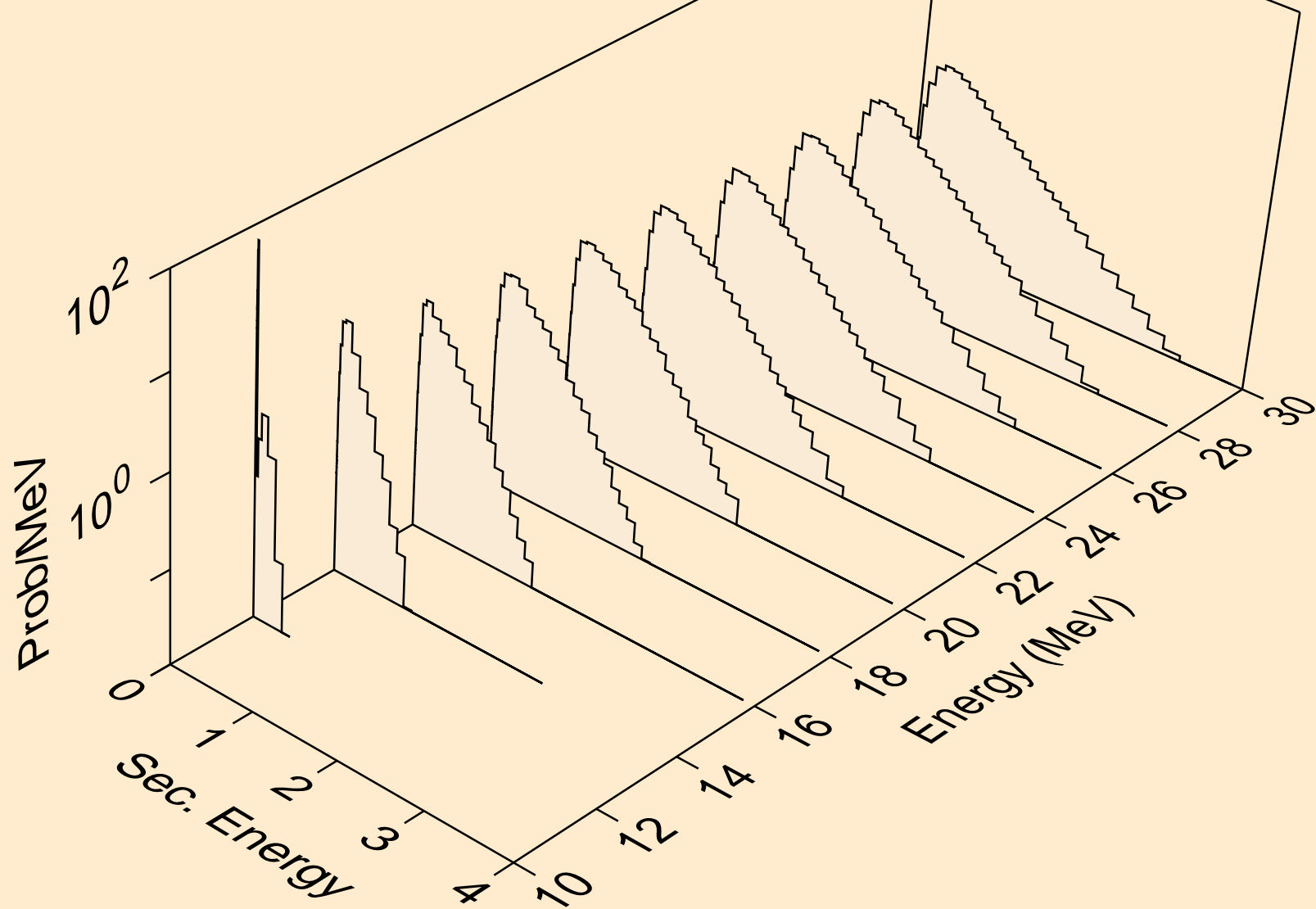
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



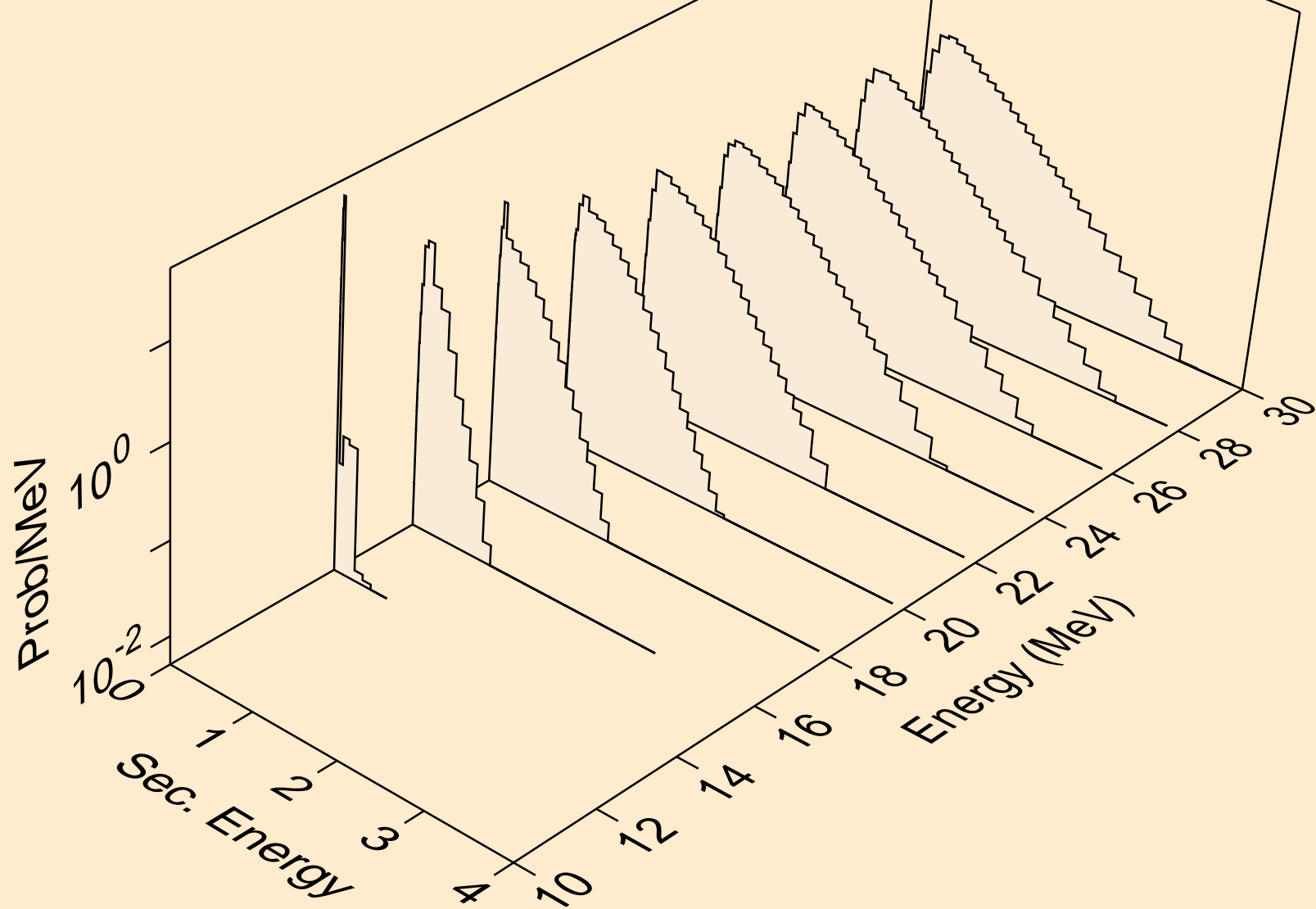
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)2a



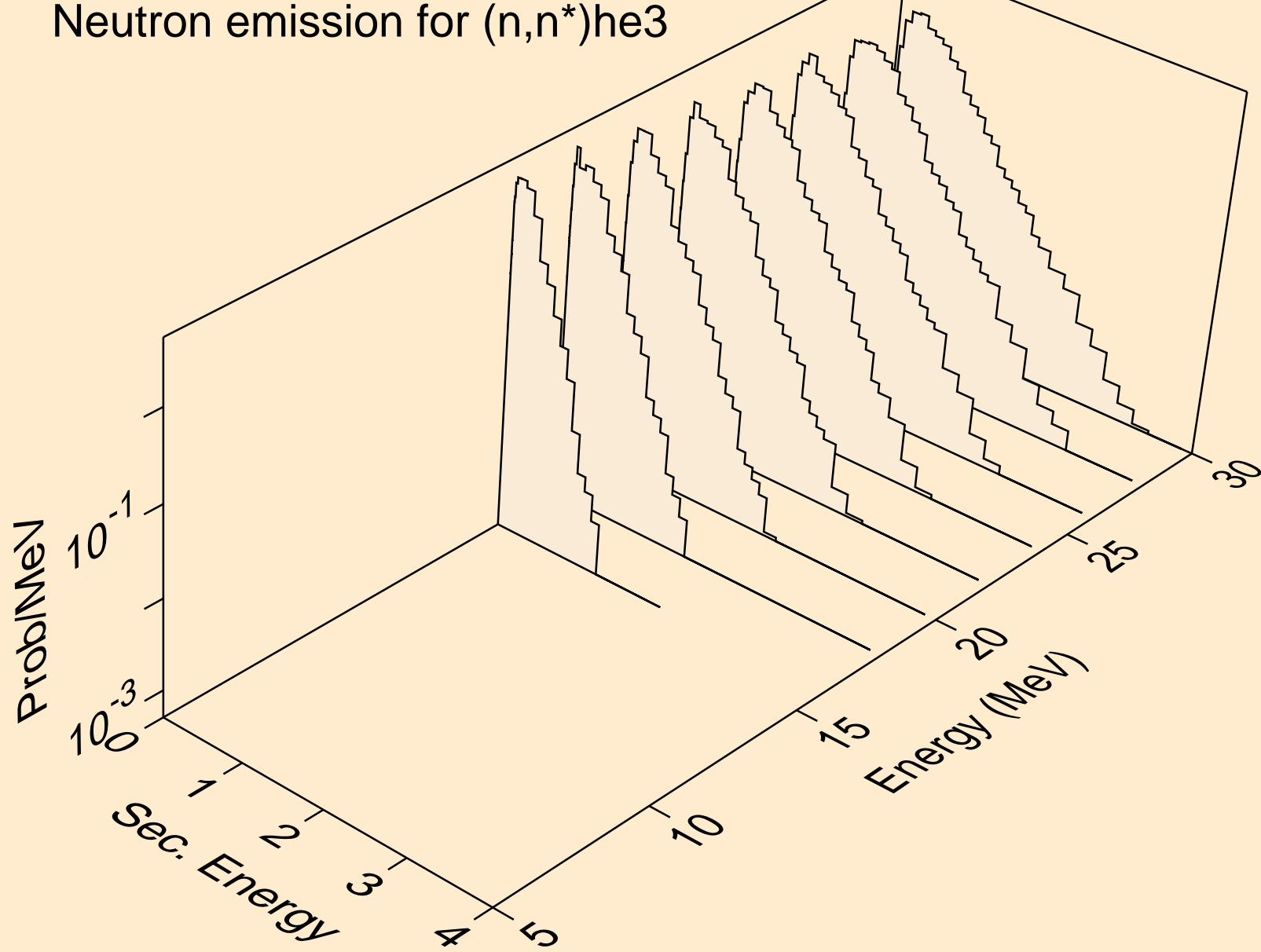
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Neutron emission for (n,n\*)d



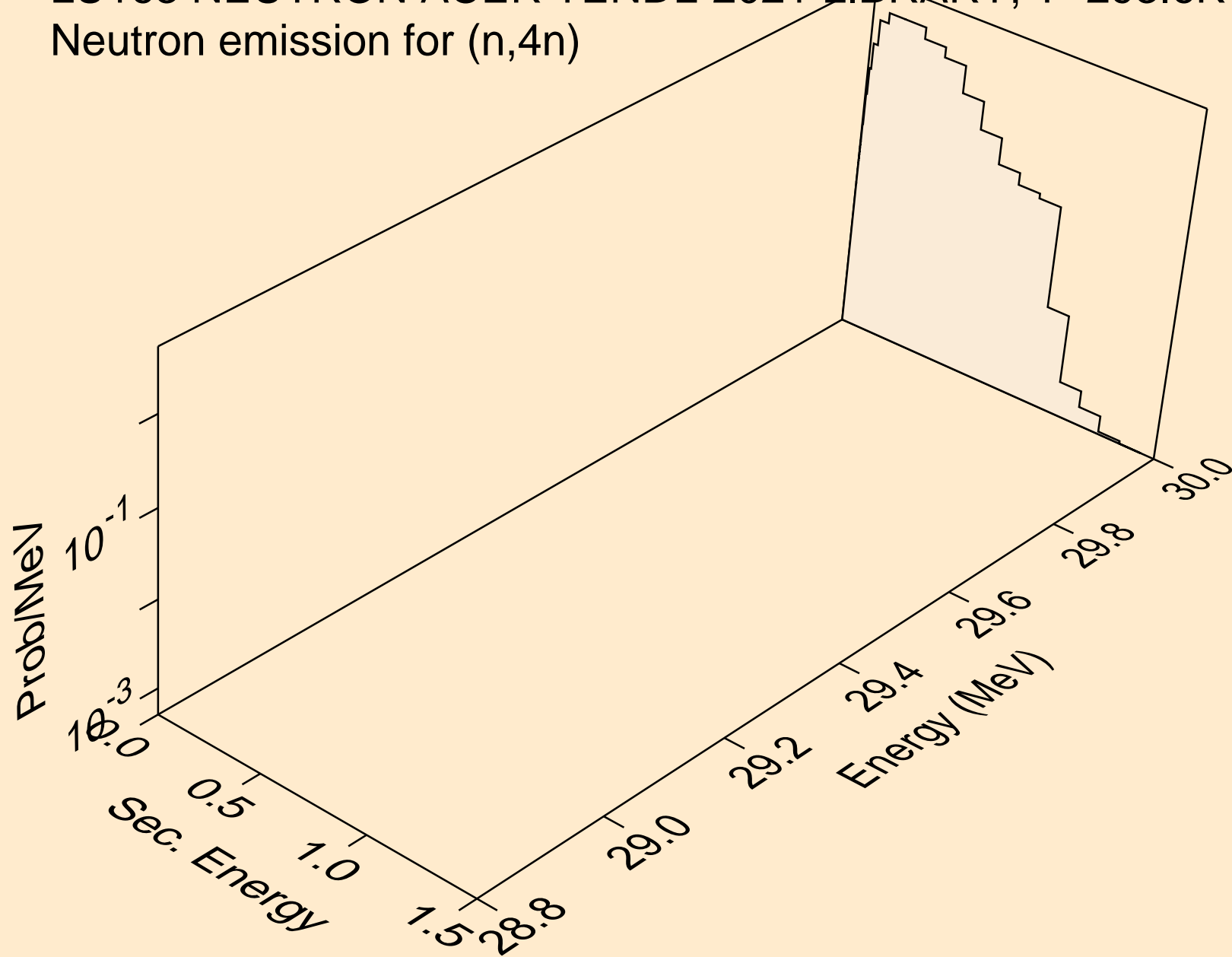
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

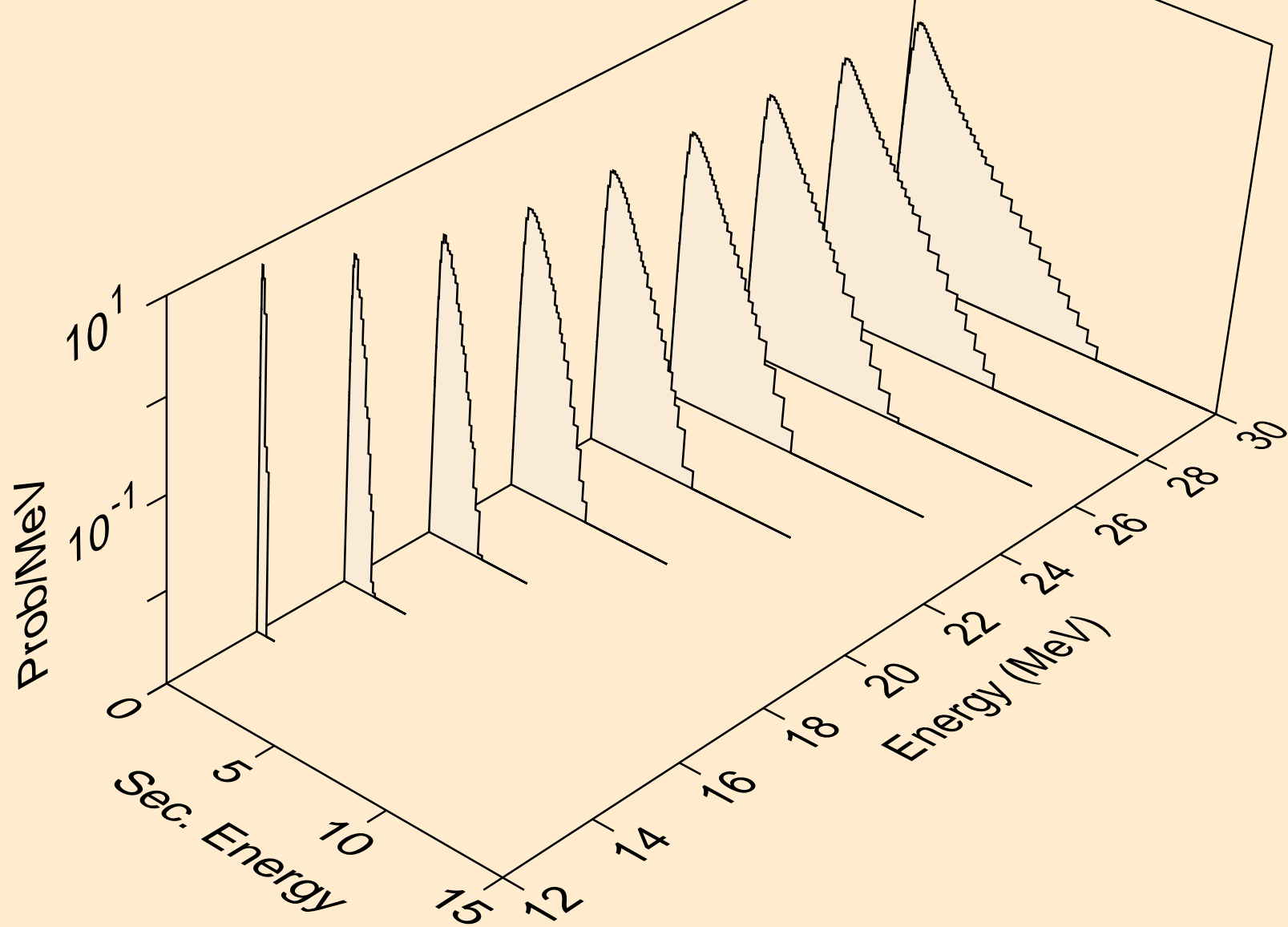


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Neutron emission for (n,4n)

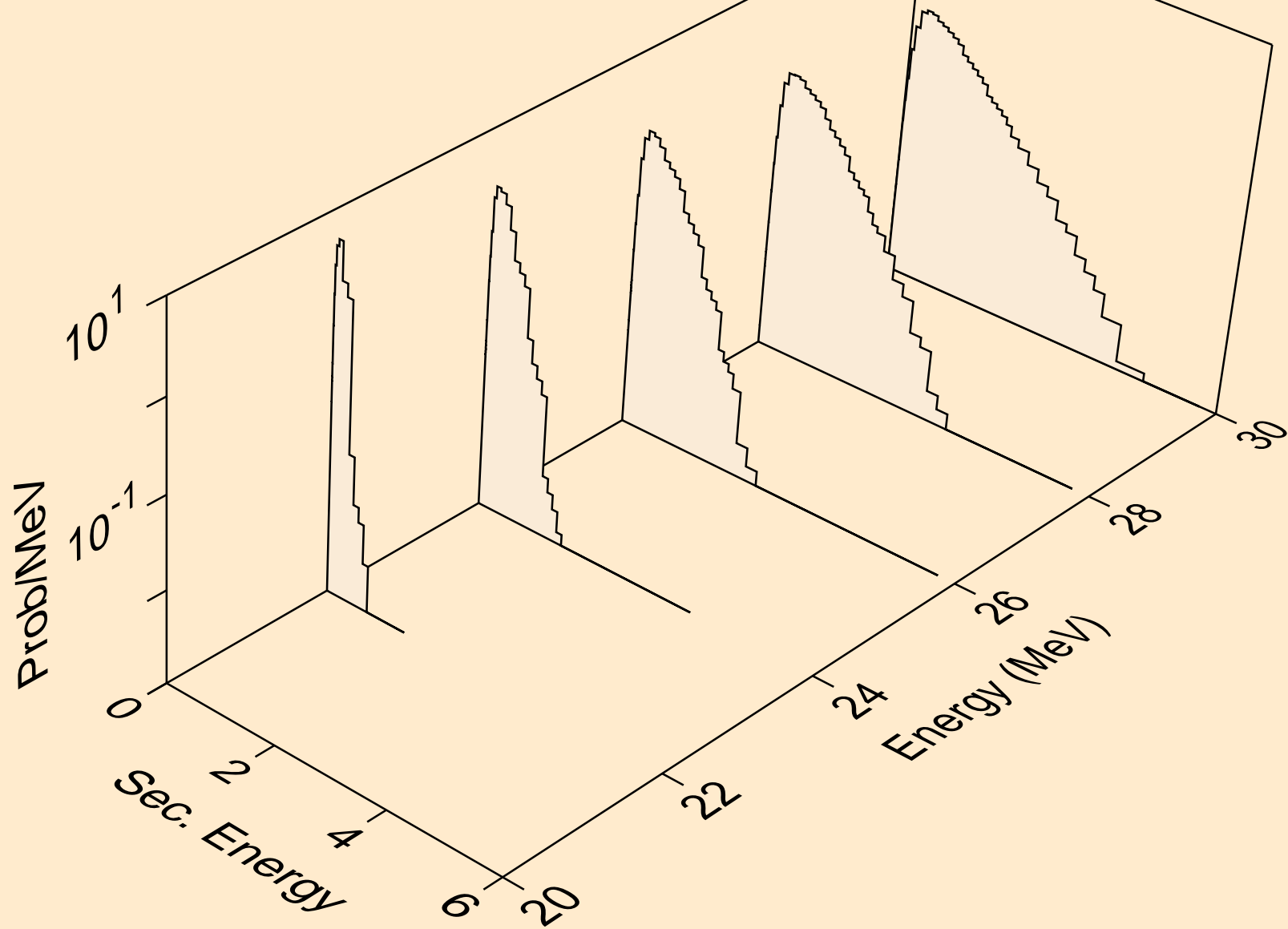




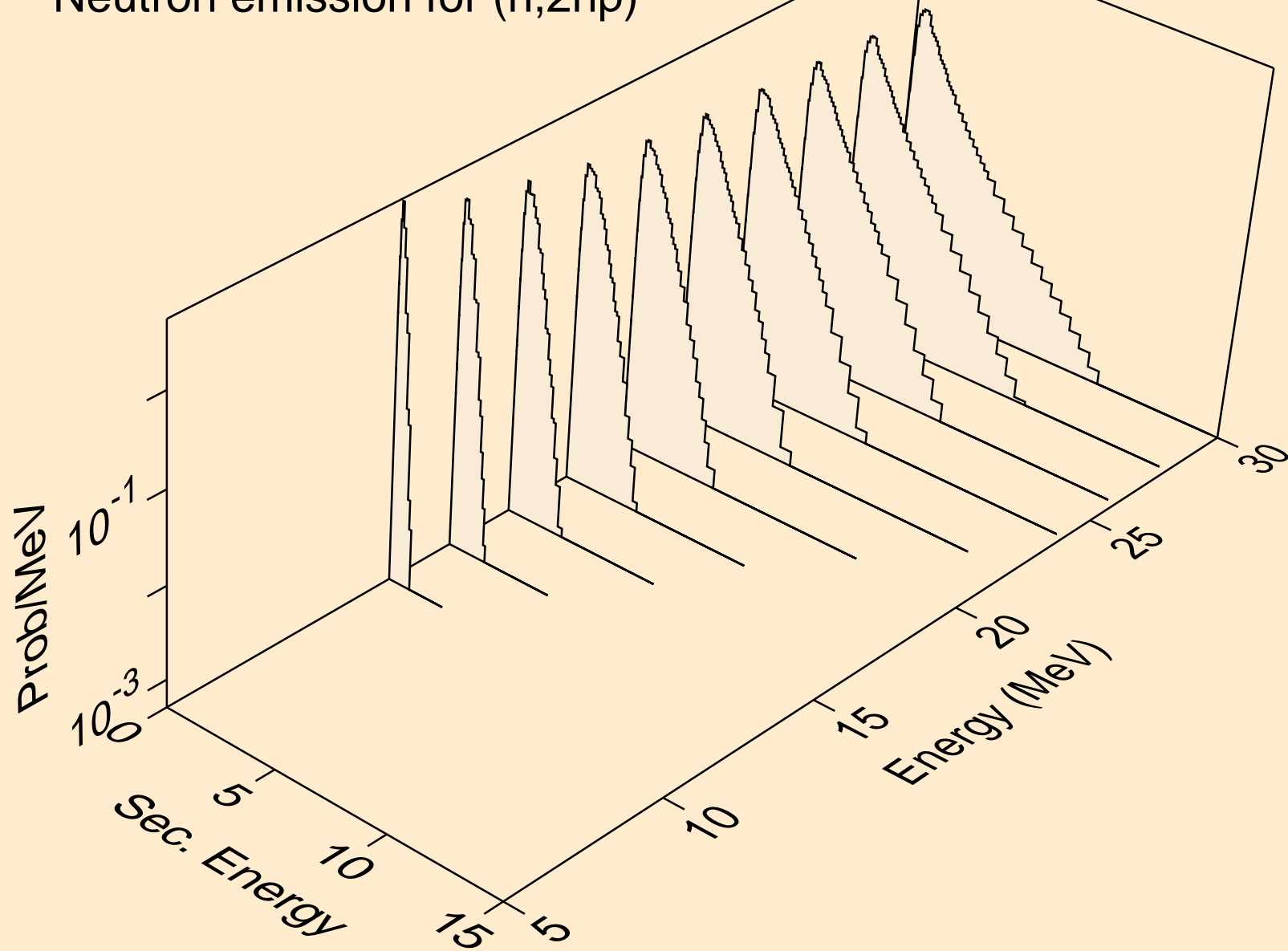
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Neutron emission for (n,2np)



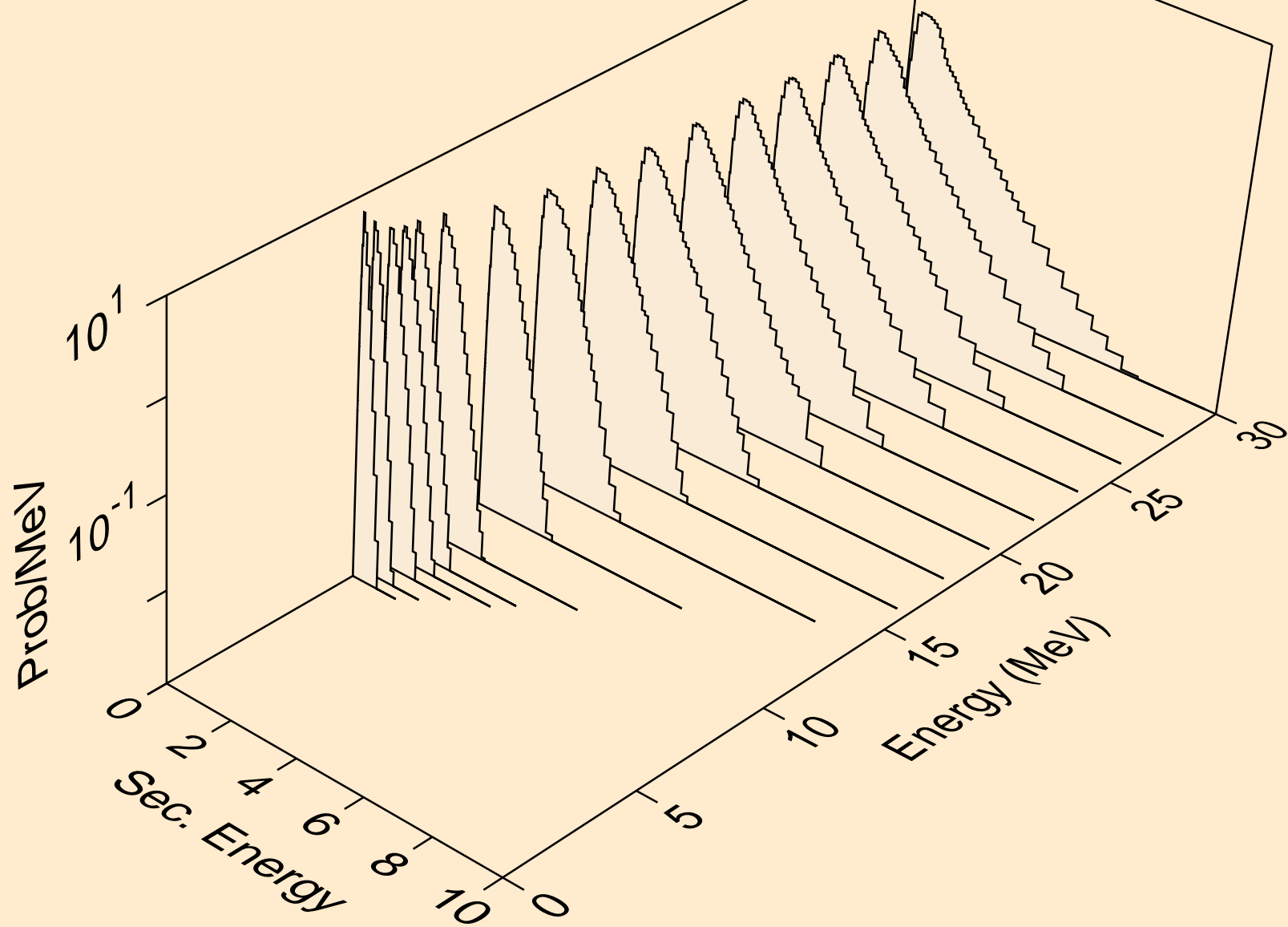
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Neutron emission for (n,3np)



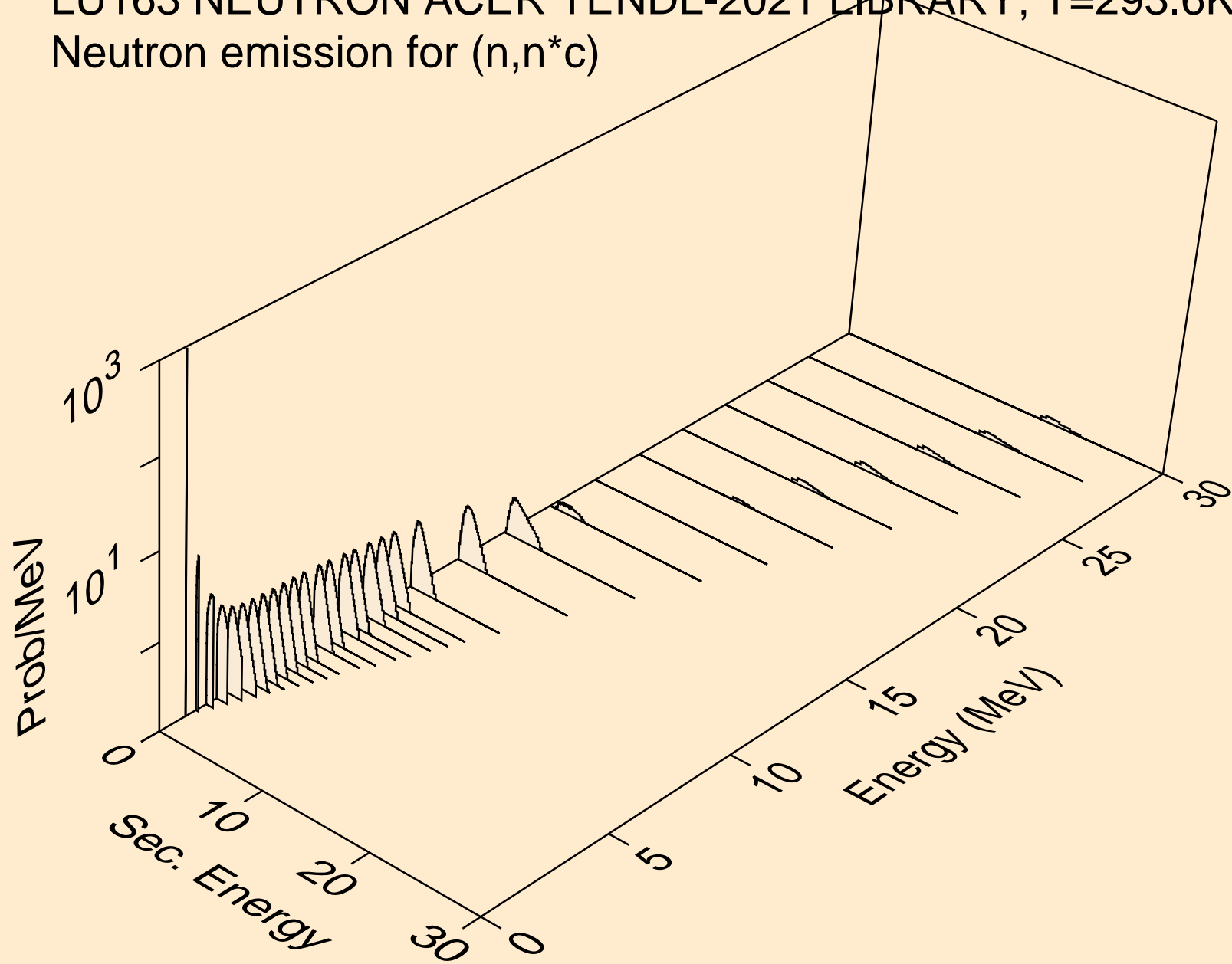
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Neutron emission for (n,2np)



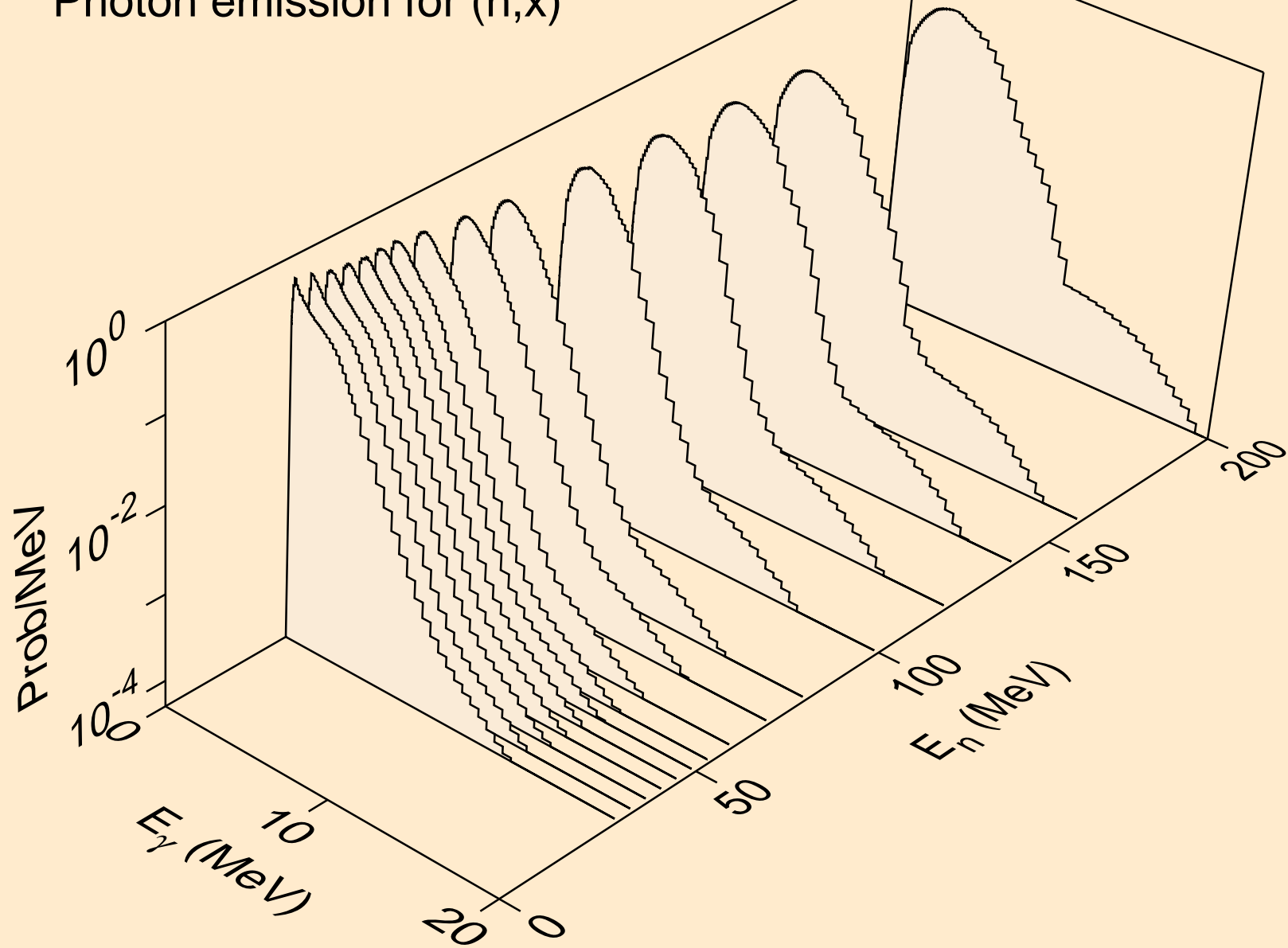
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Neutron emission for (n,npa)



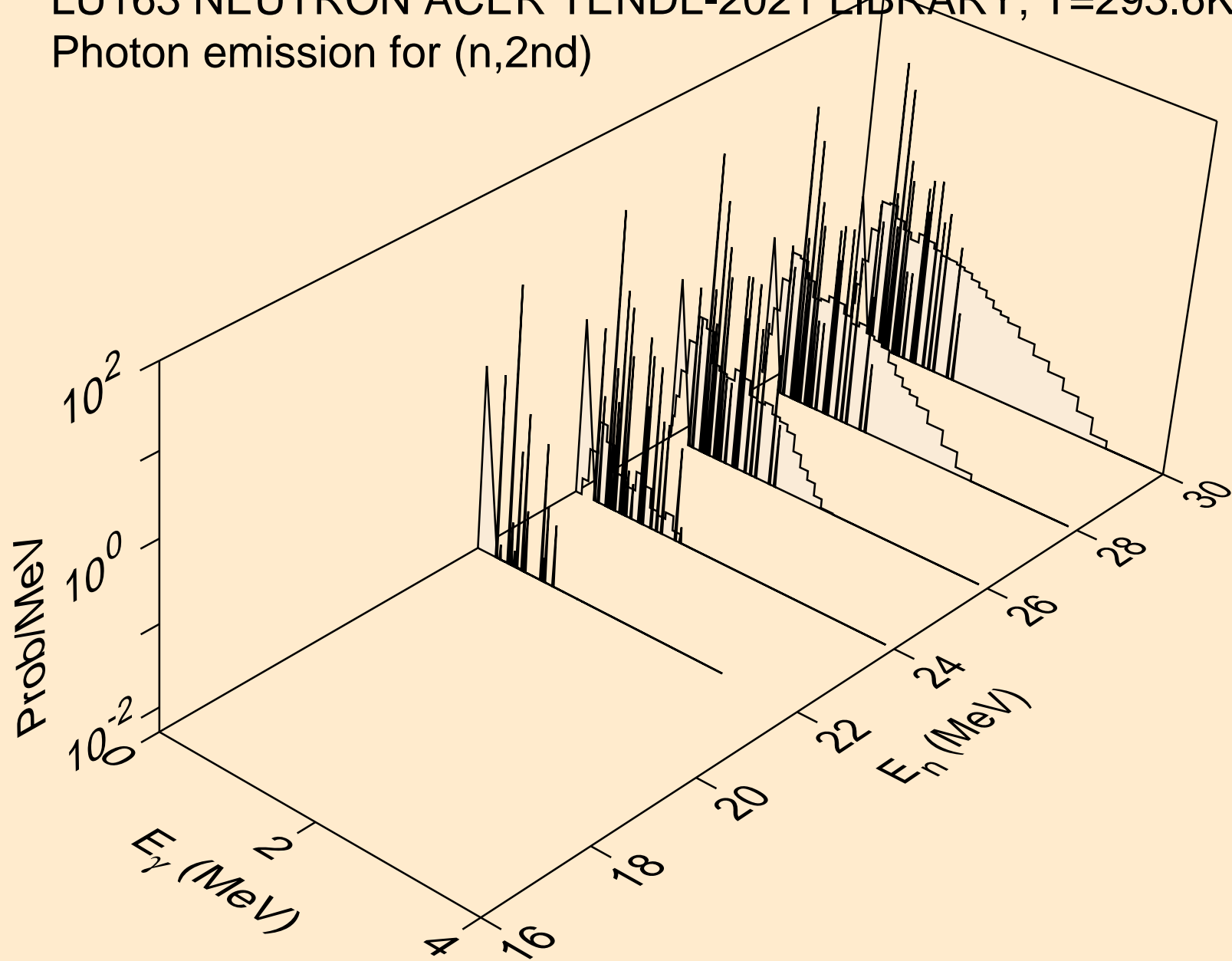
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Neutron emission for (n,n\*c)



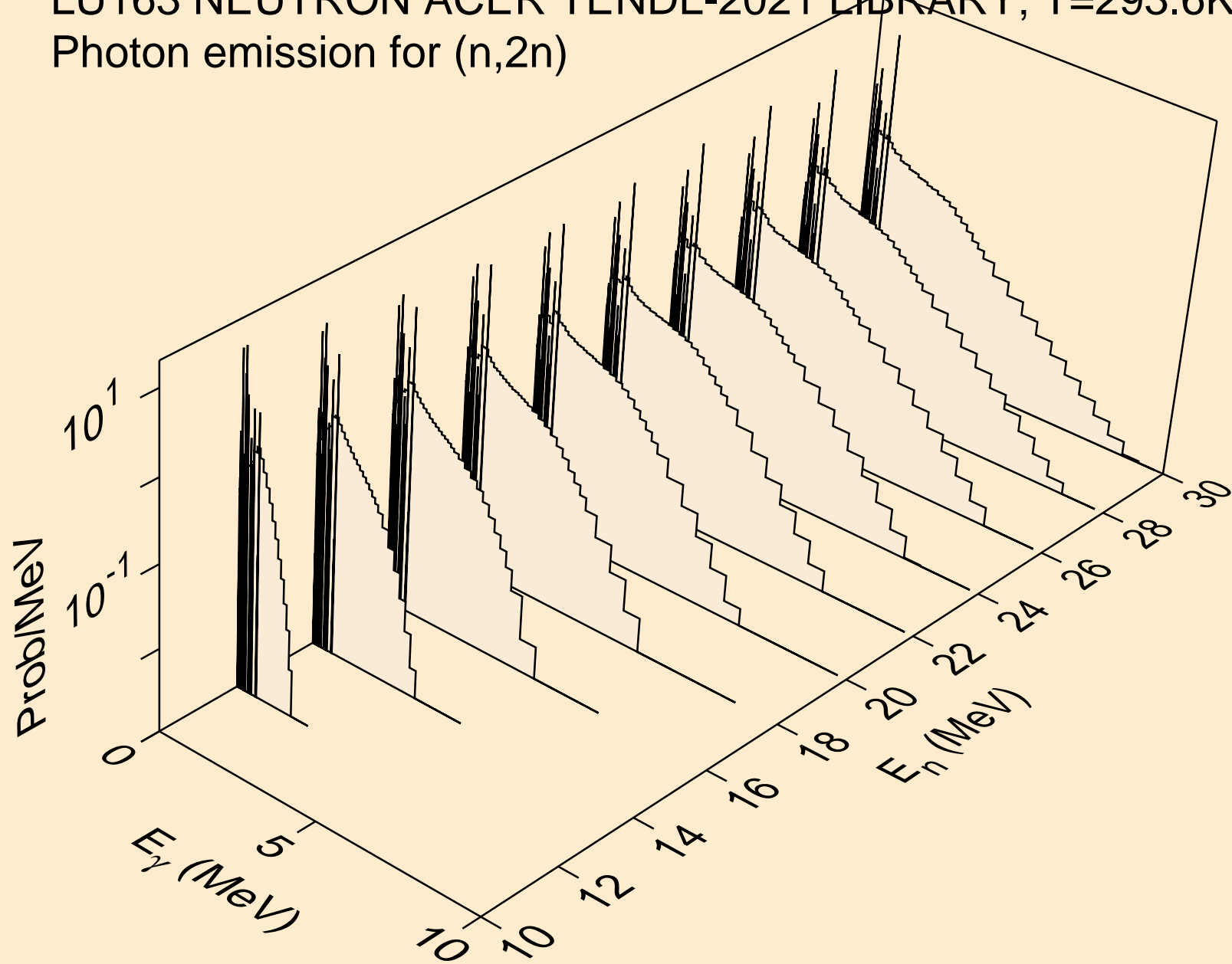
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)

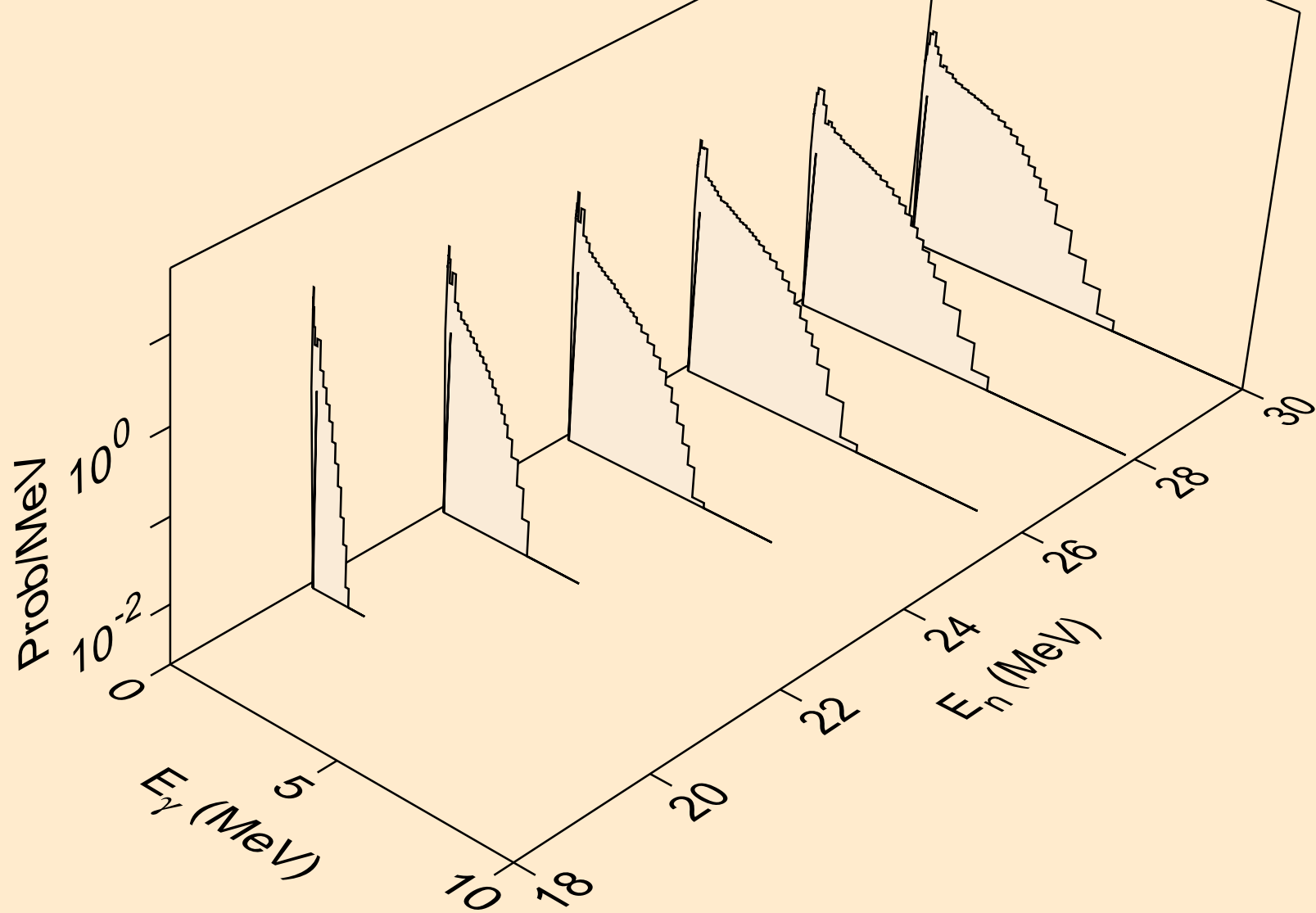


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Photon emission for (n,2n)

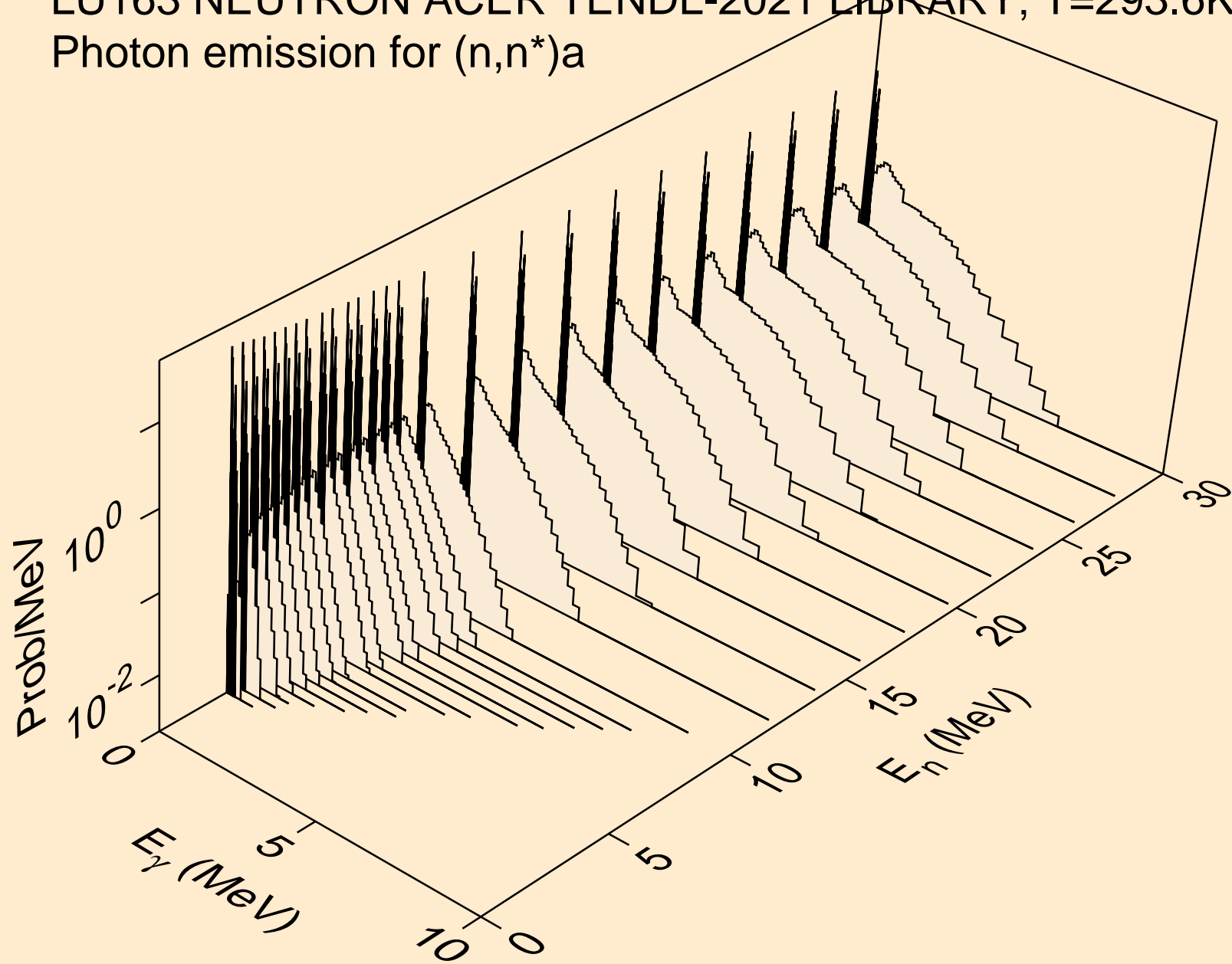




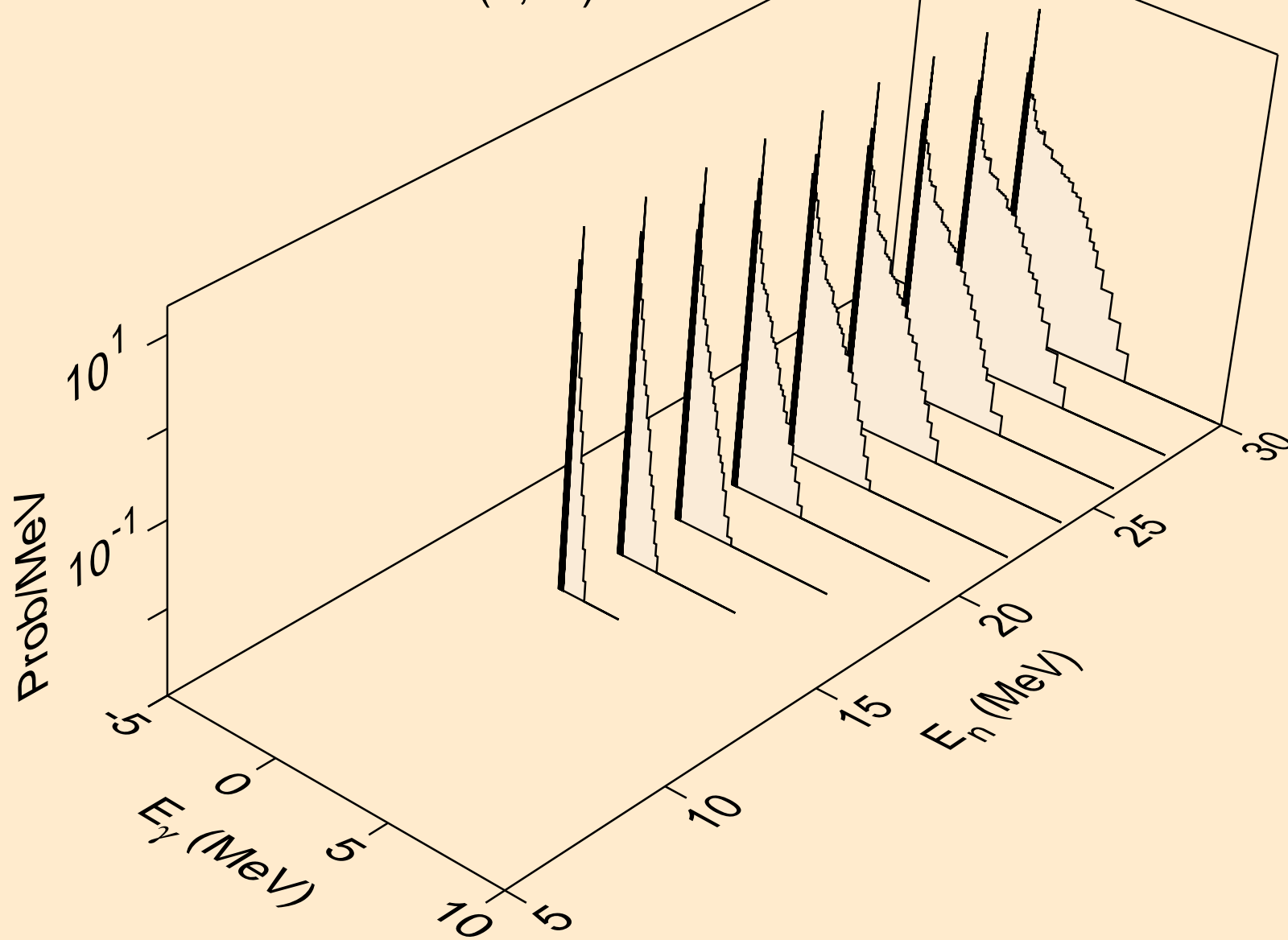
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Photon emission for (n,3n)



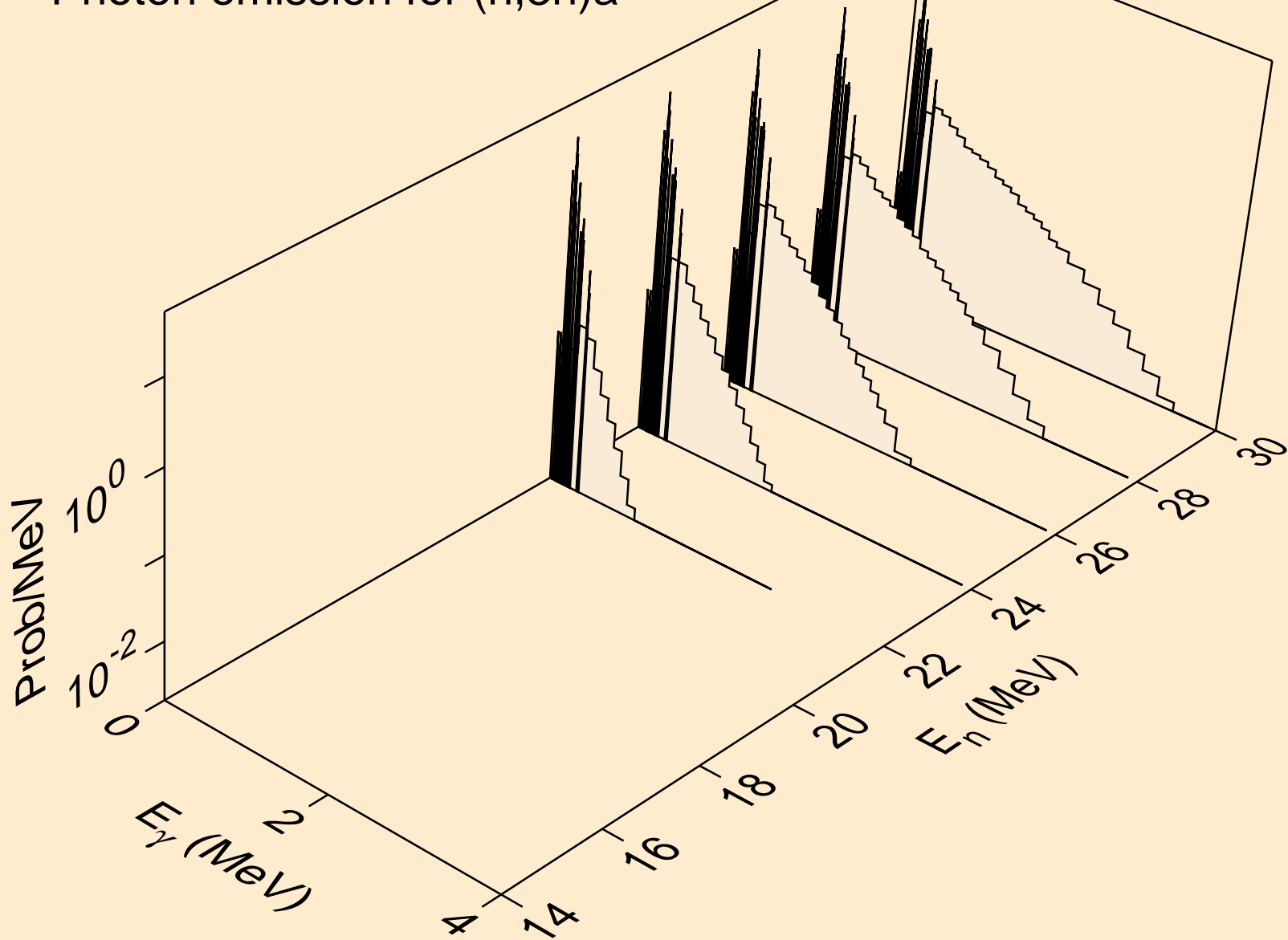
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Photon emission for (n,n\*)a



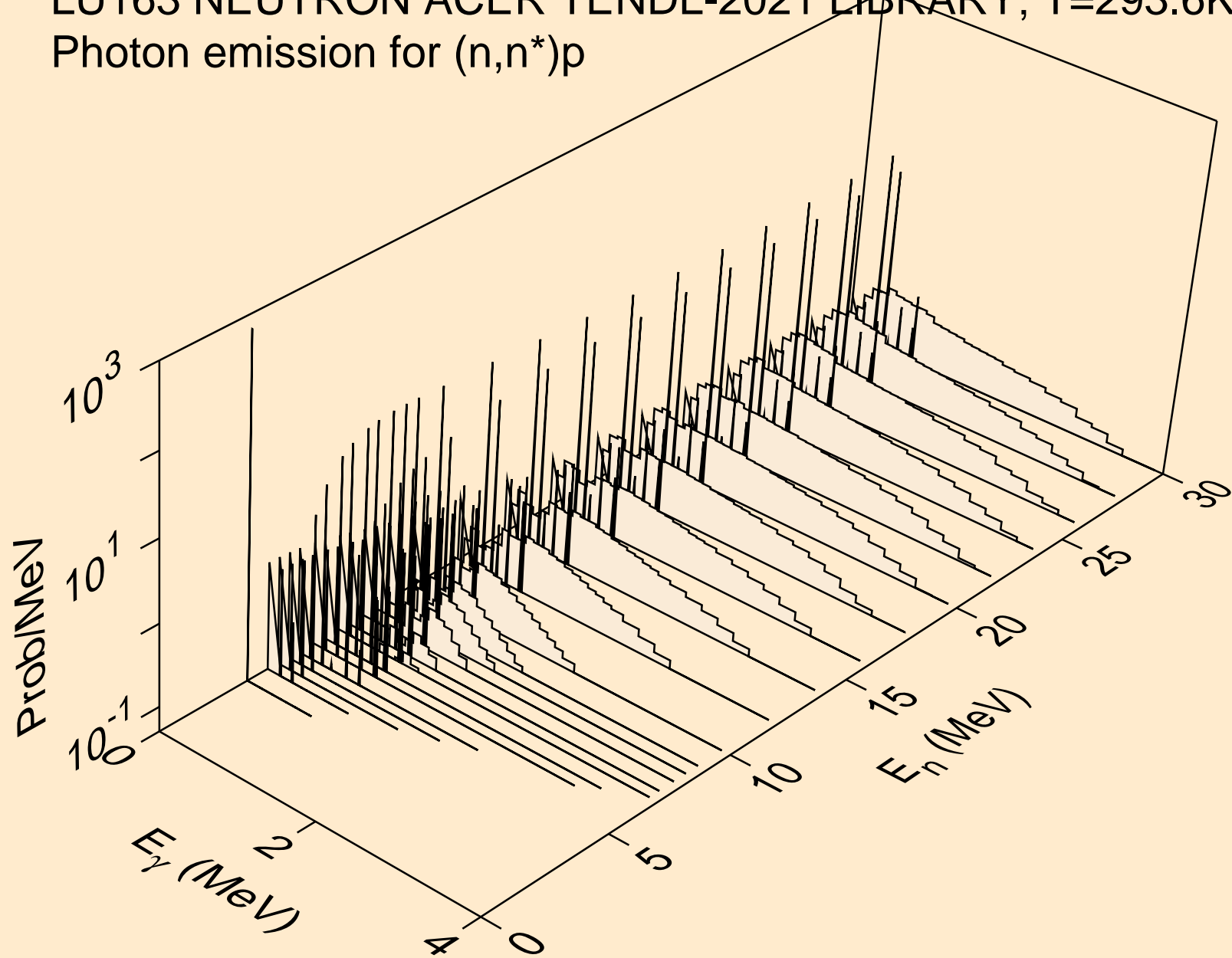
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Photon emission for (n,2n)a



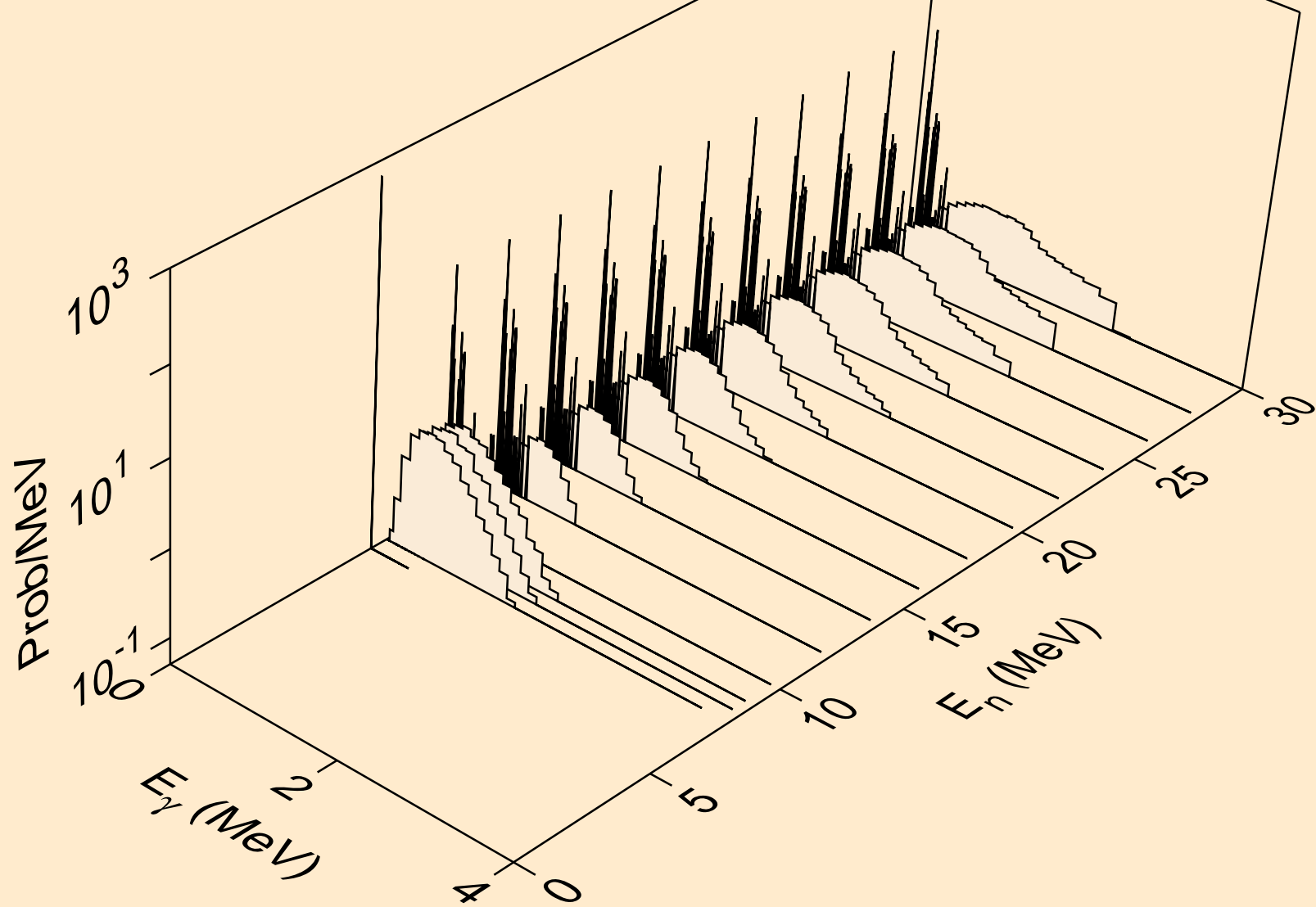
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Photon emission for (n,3n)a



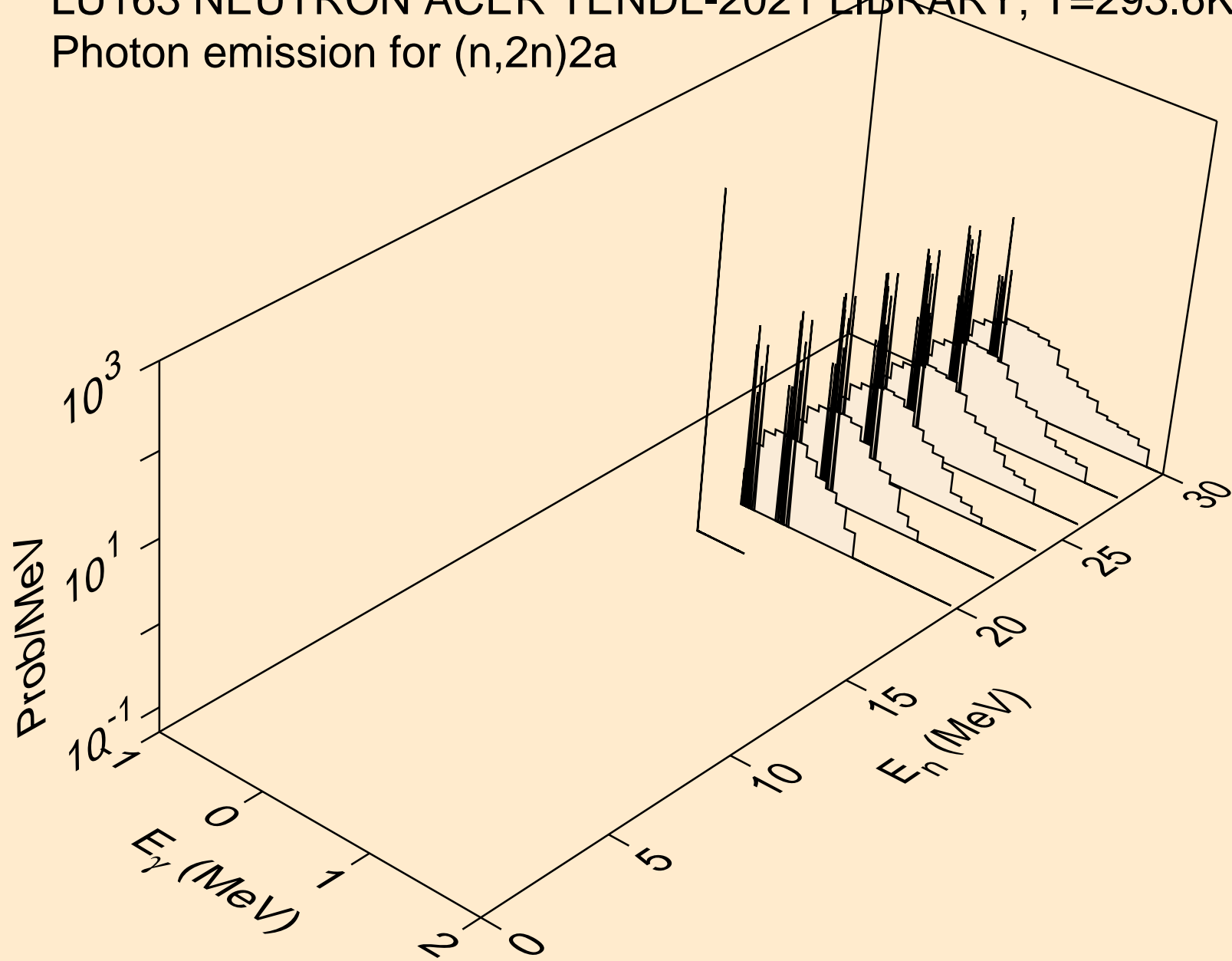
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Photon emission for (n,n\*)p



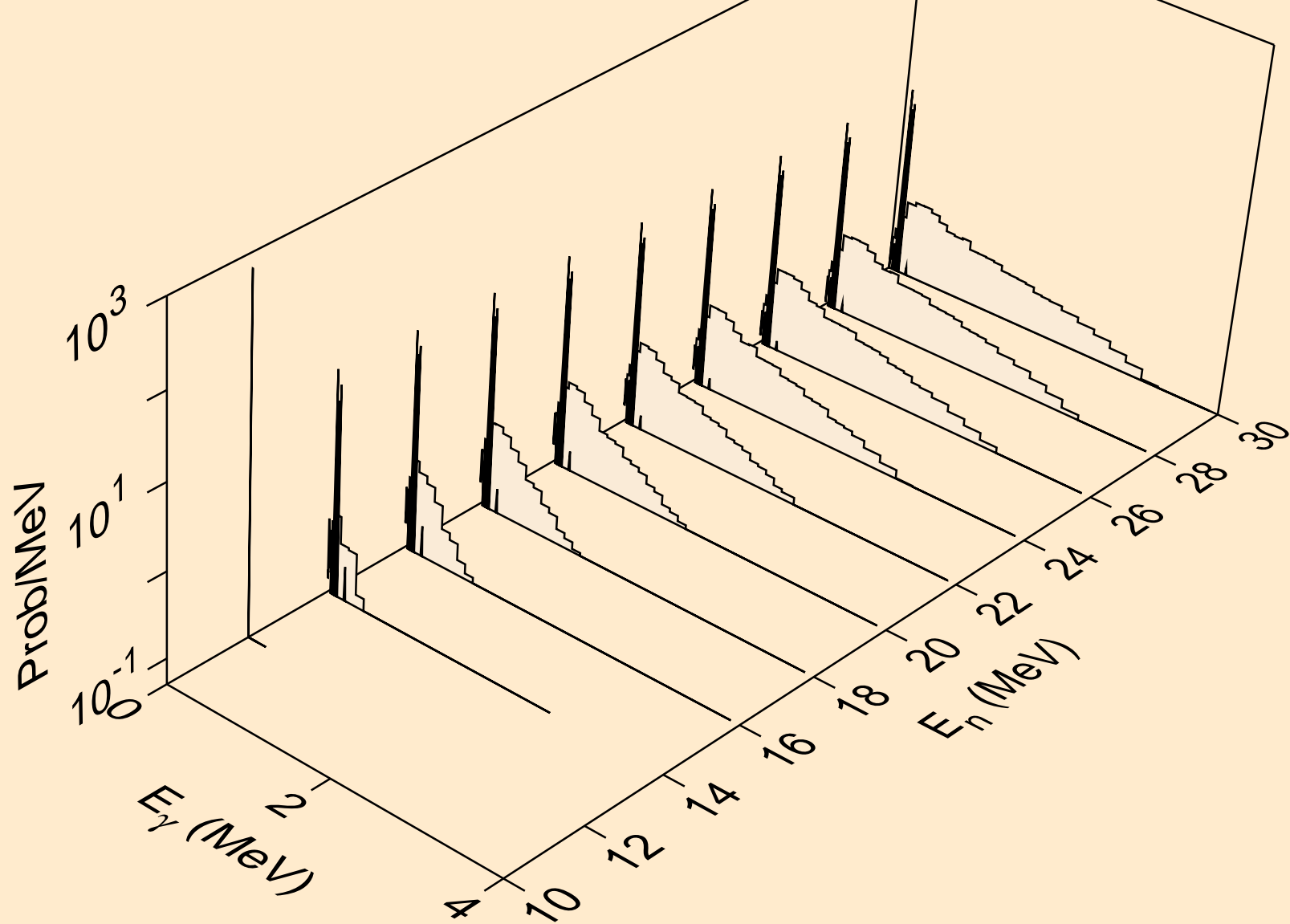
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



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Photon emission for (n,2n)2a

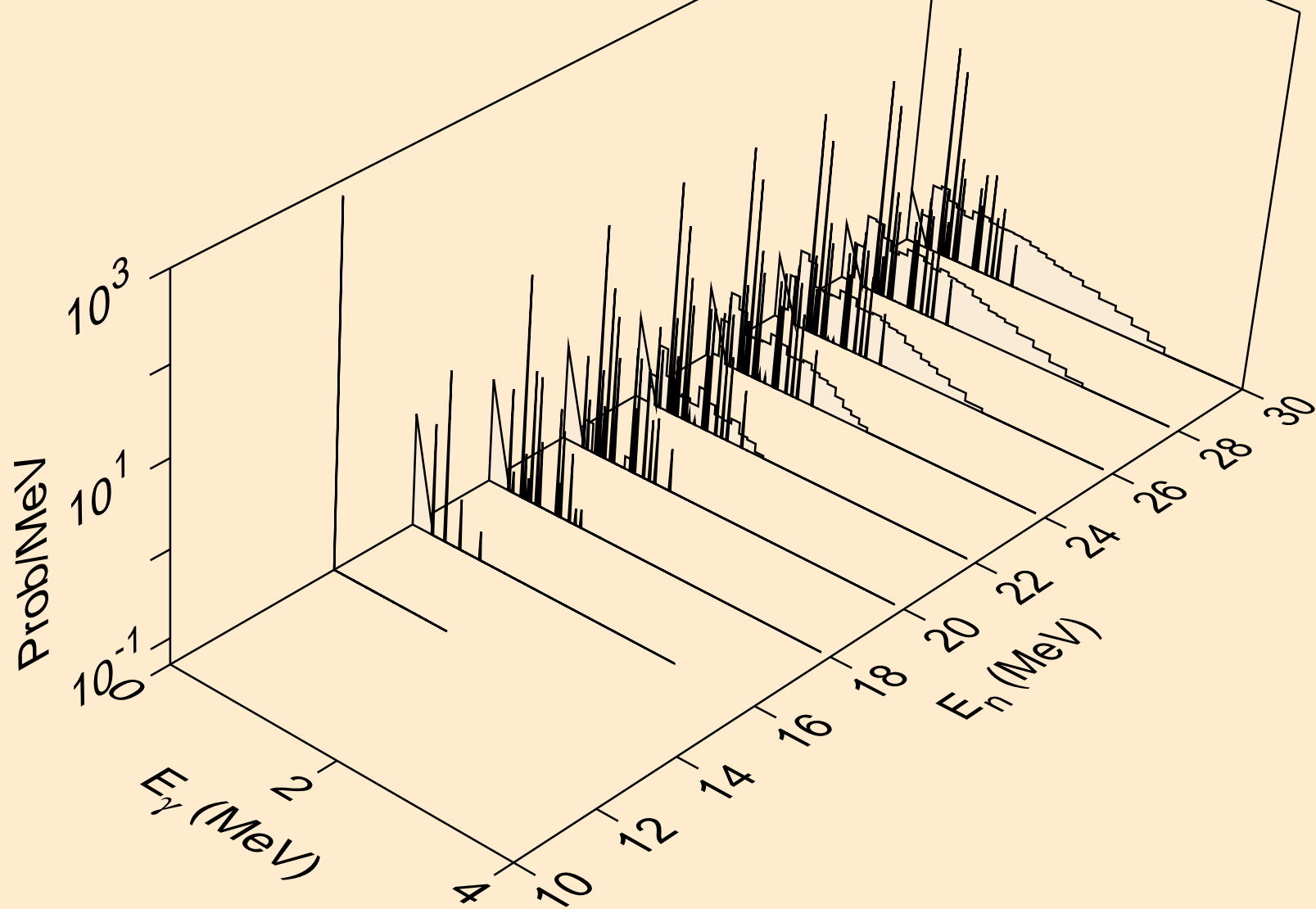


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

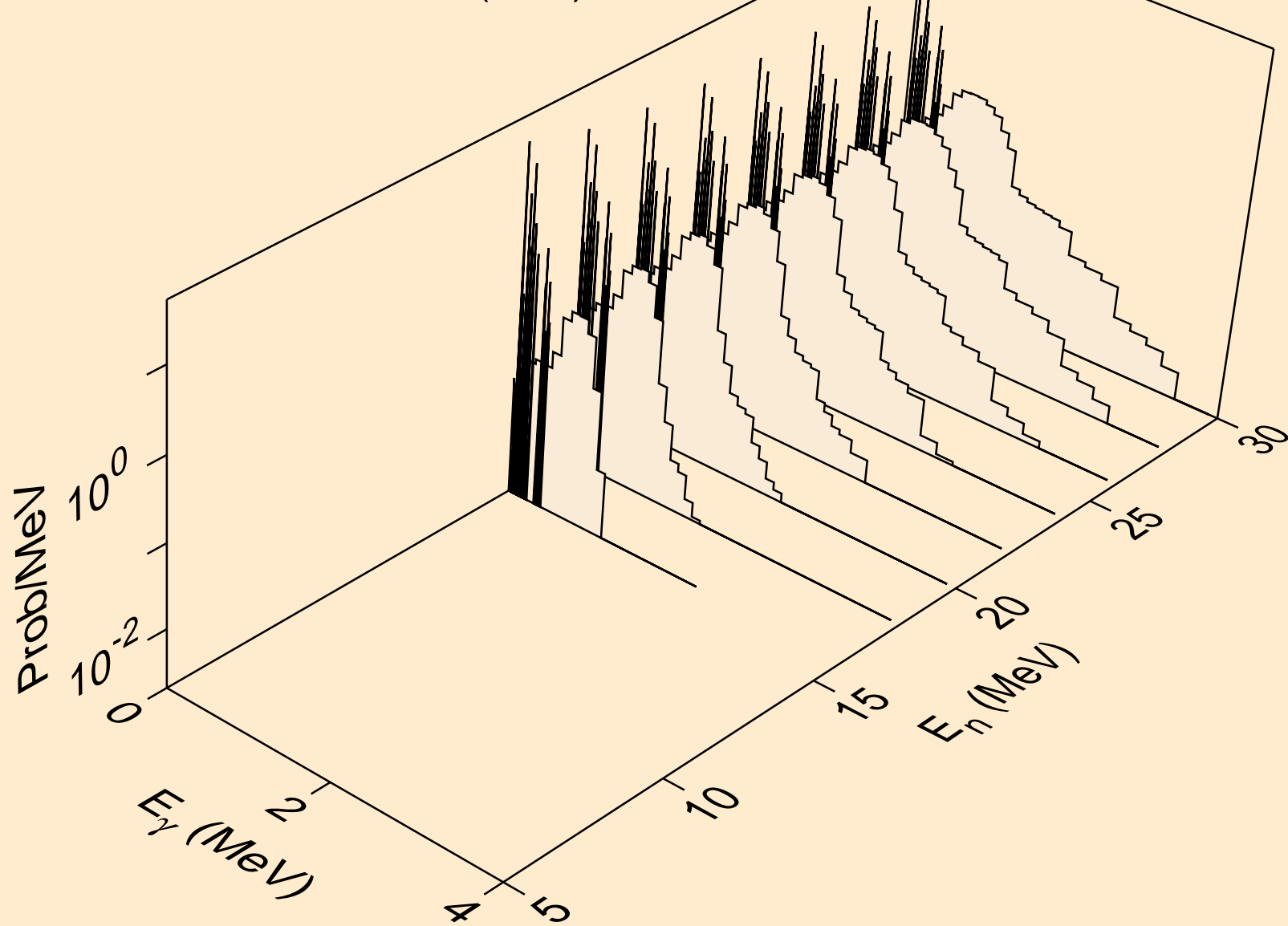




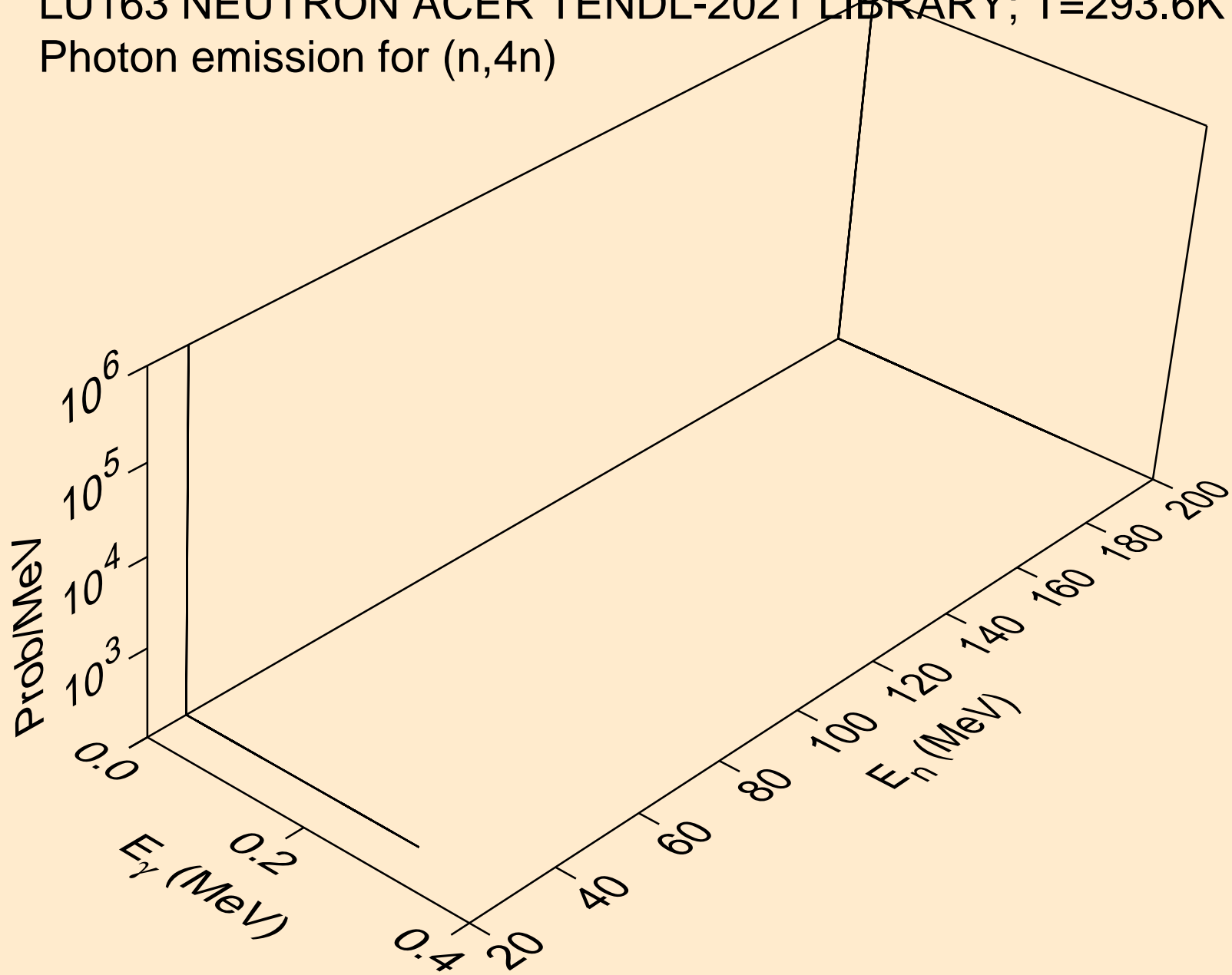
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Photon emission for (n,n\*)t



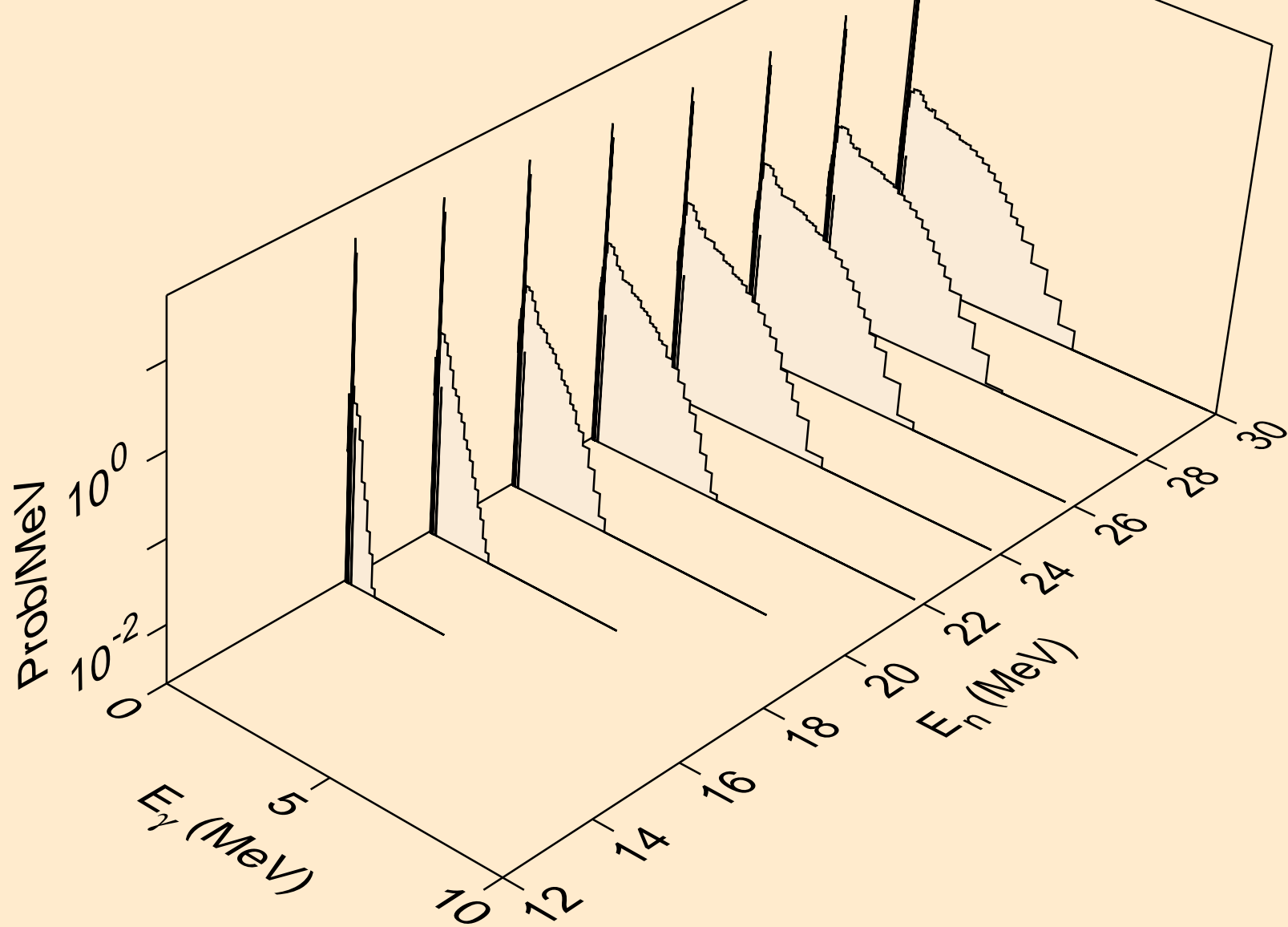
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Photon emission for (n,n\*)he3



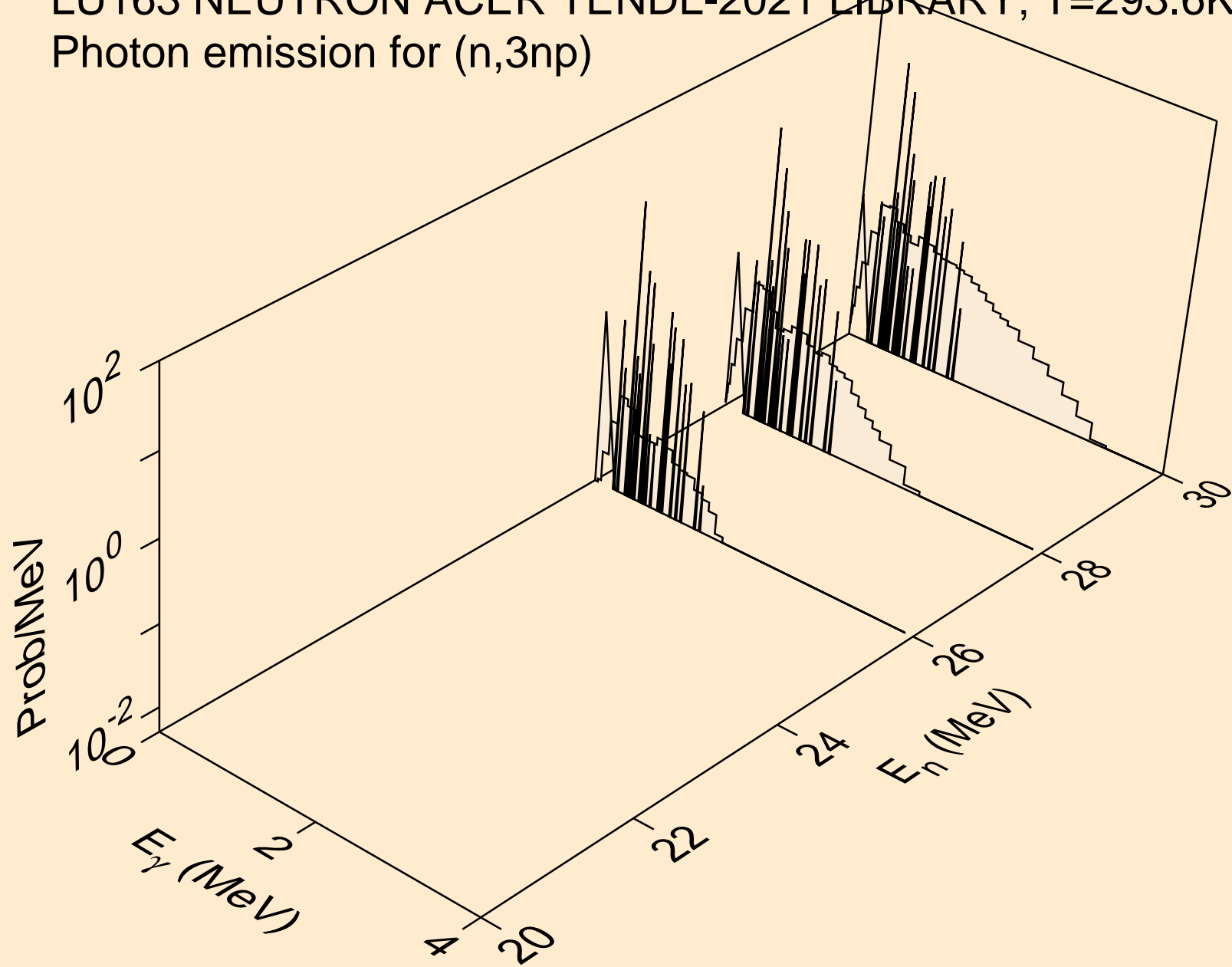
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Photon emission for (n,4n)



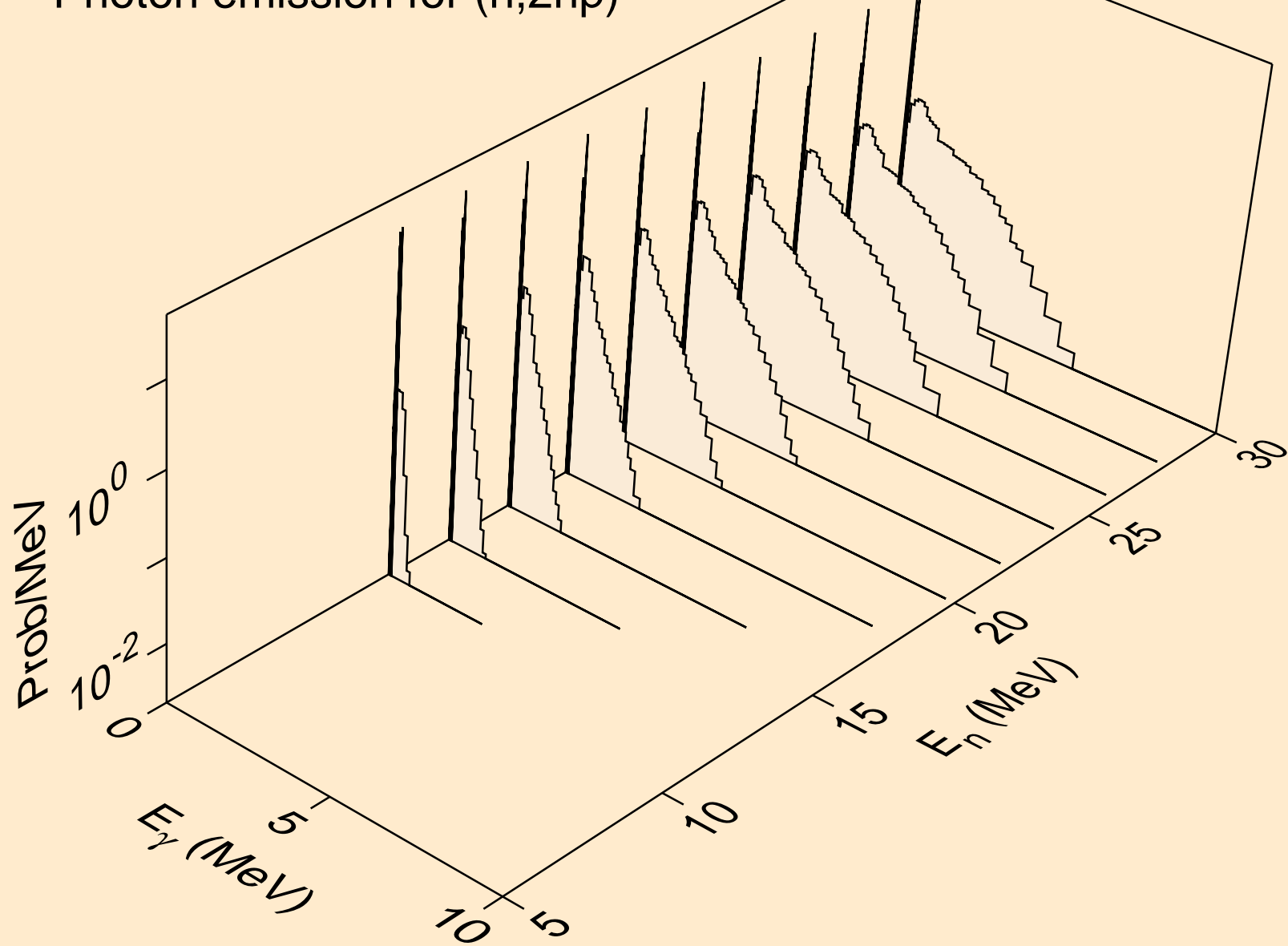
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Photon emission for (n,2np)



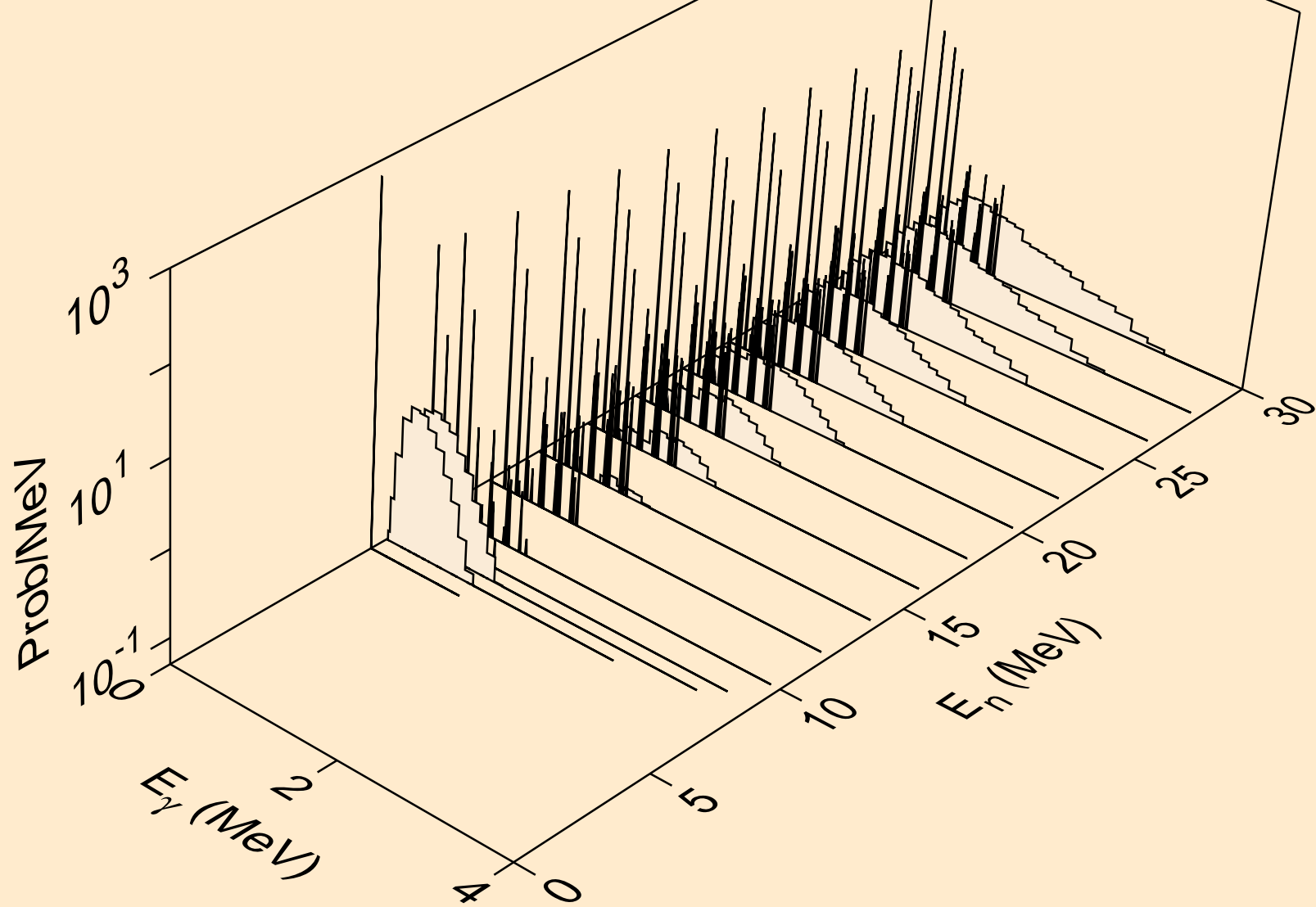
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Photon emission for (n,3np)



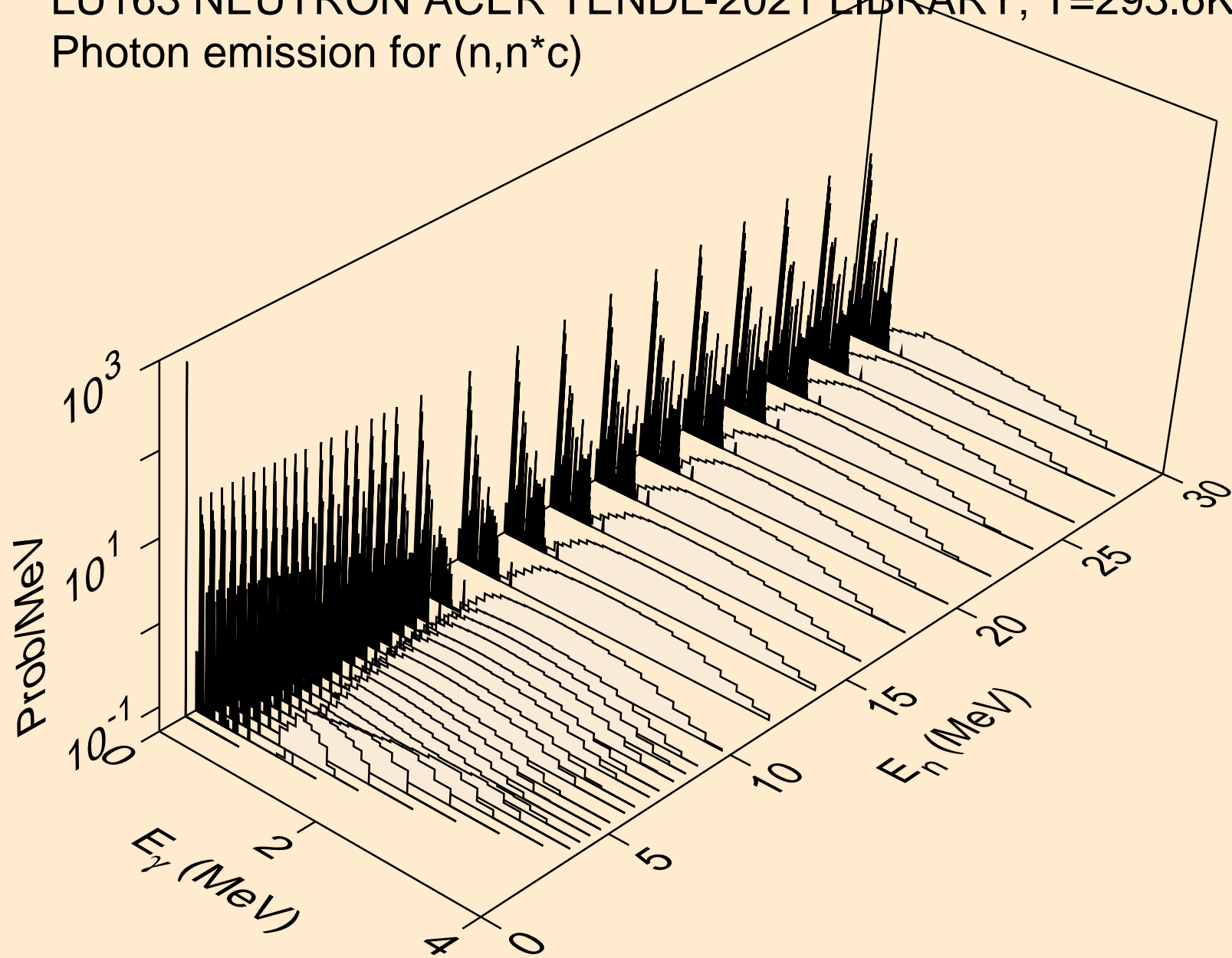
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Photon emission for (n,2np)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

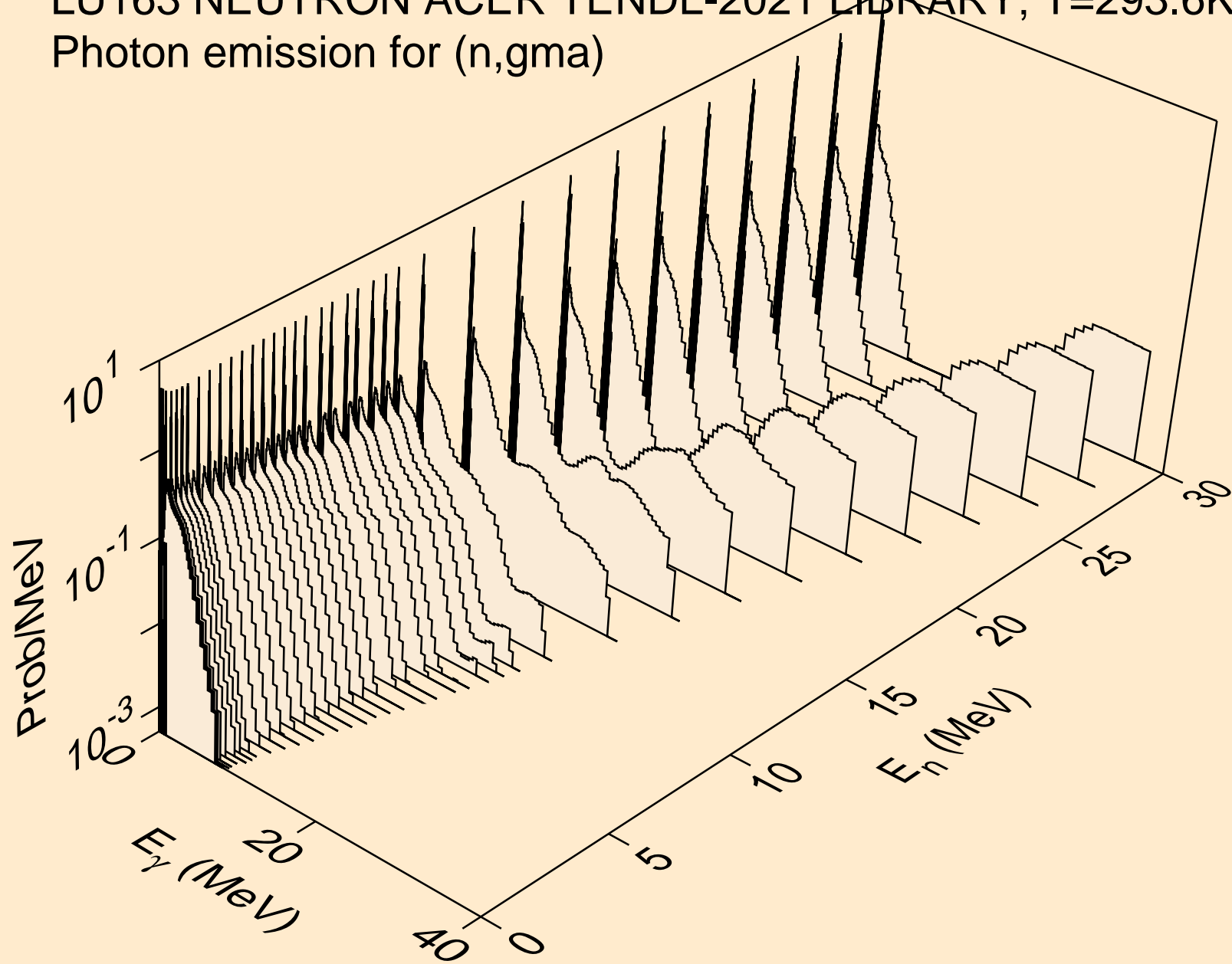


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Photon emission for (n,n\*c)

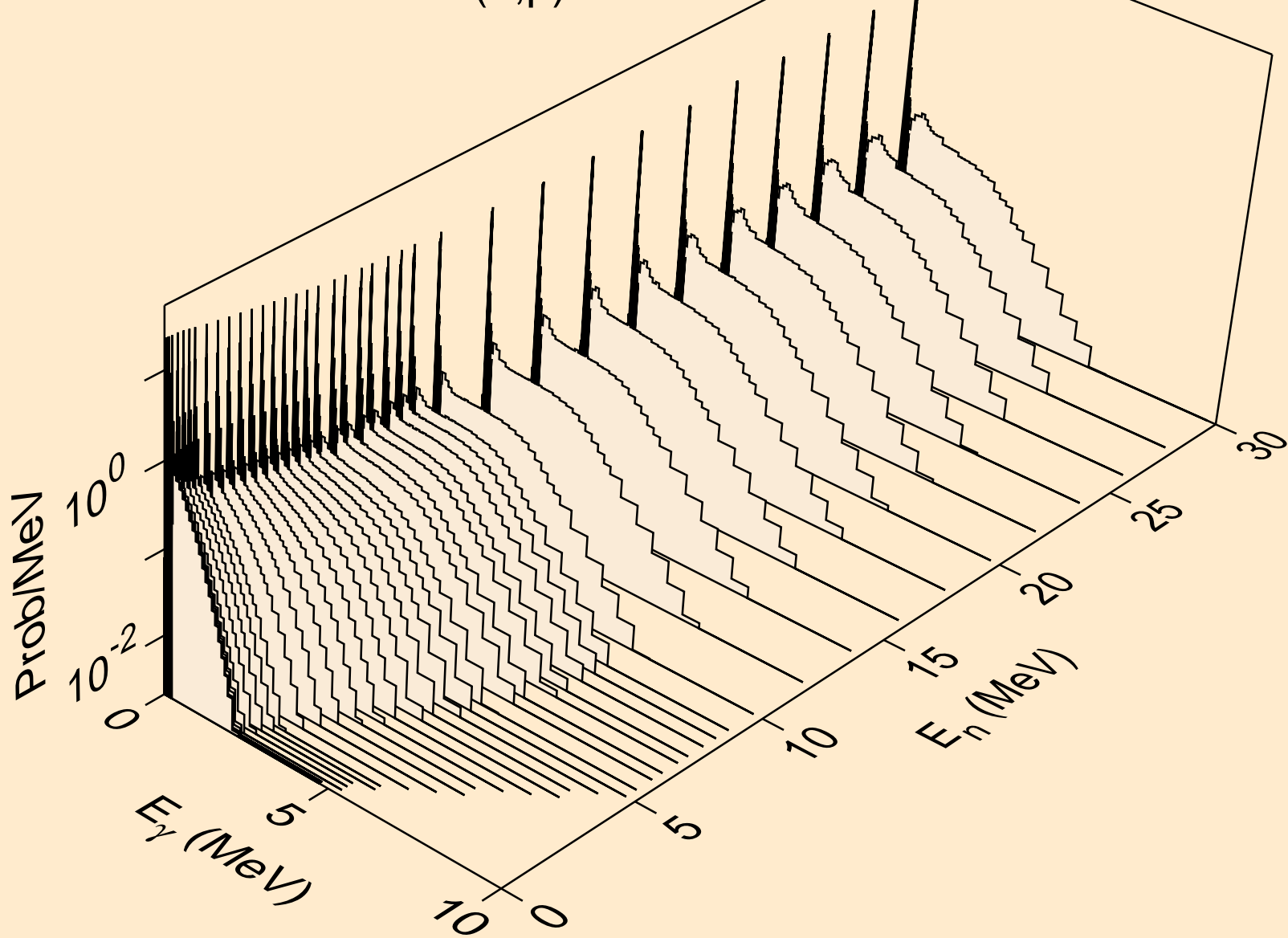




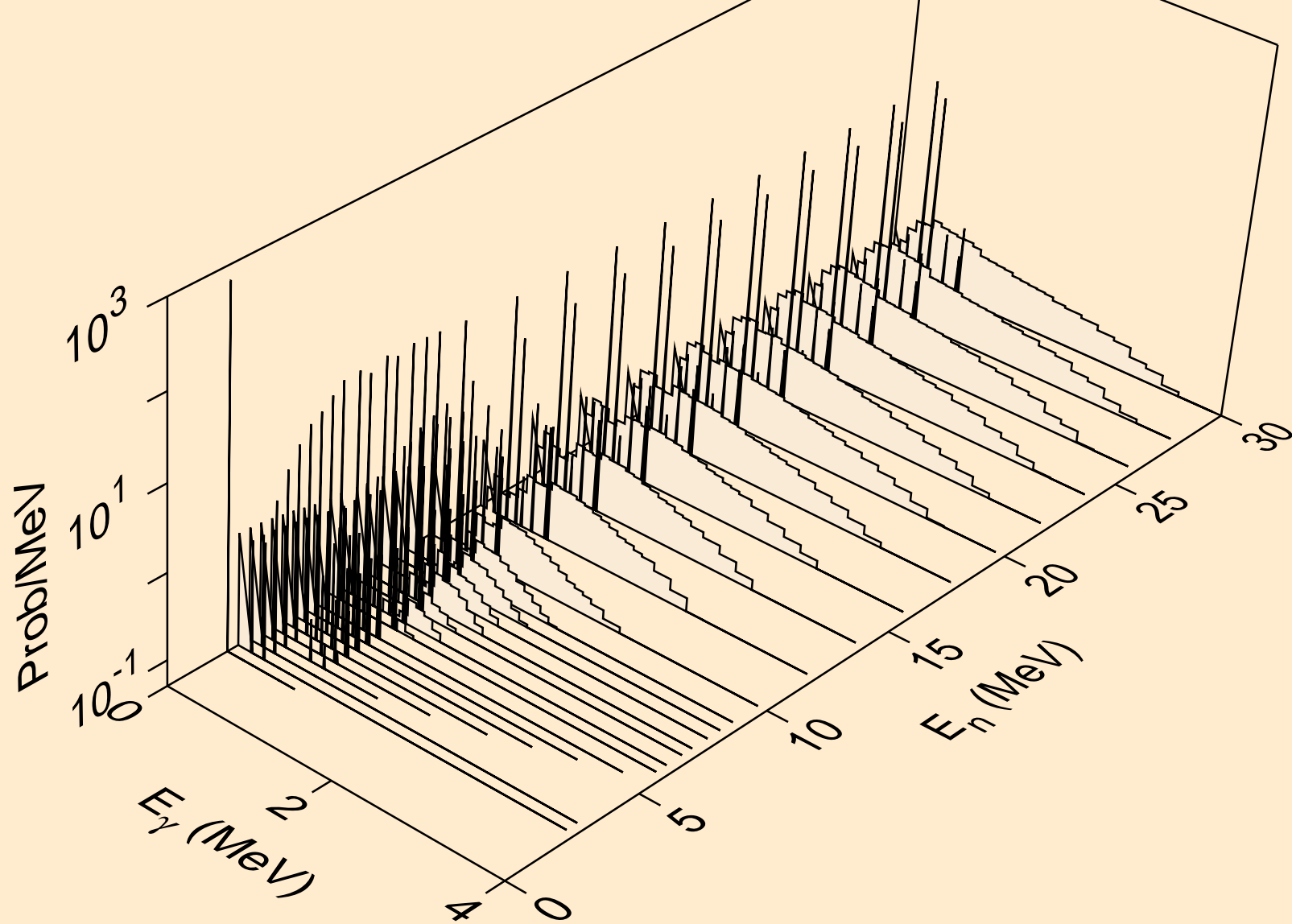
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Photon emission for (n,gma)



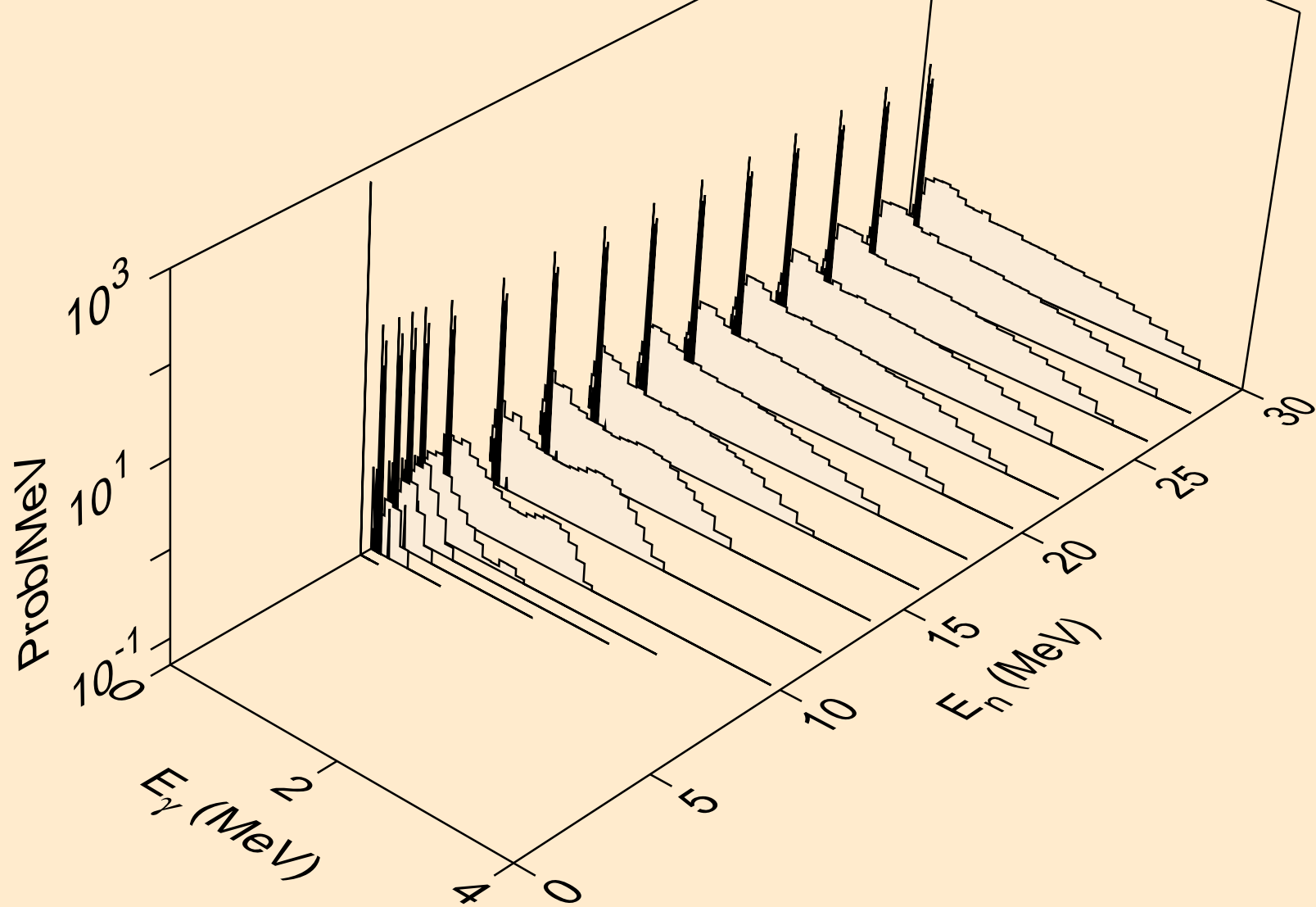
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Photon emission for (n,p)



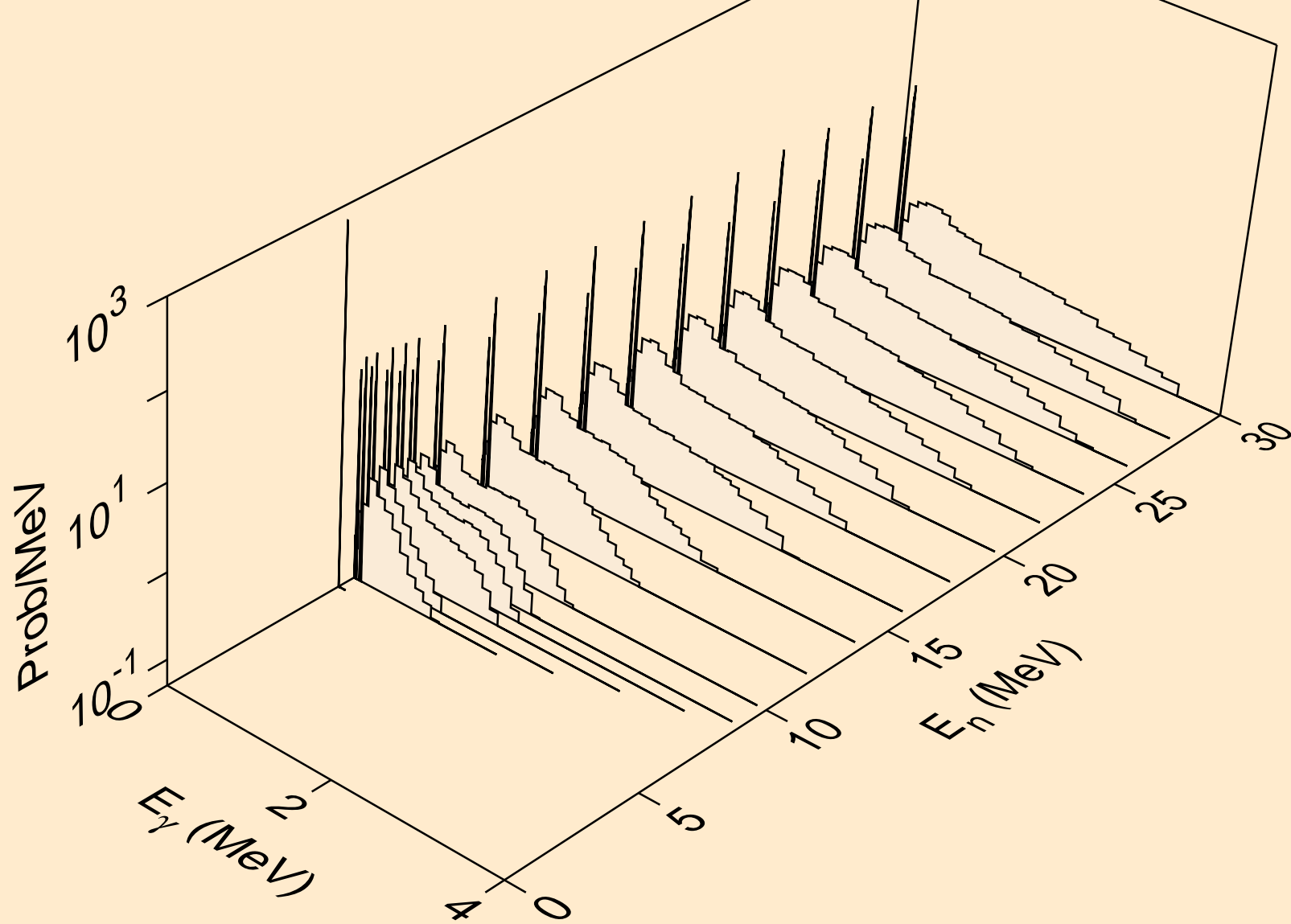
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Photon emission for (n,d)



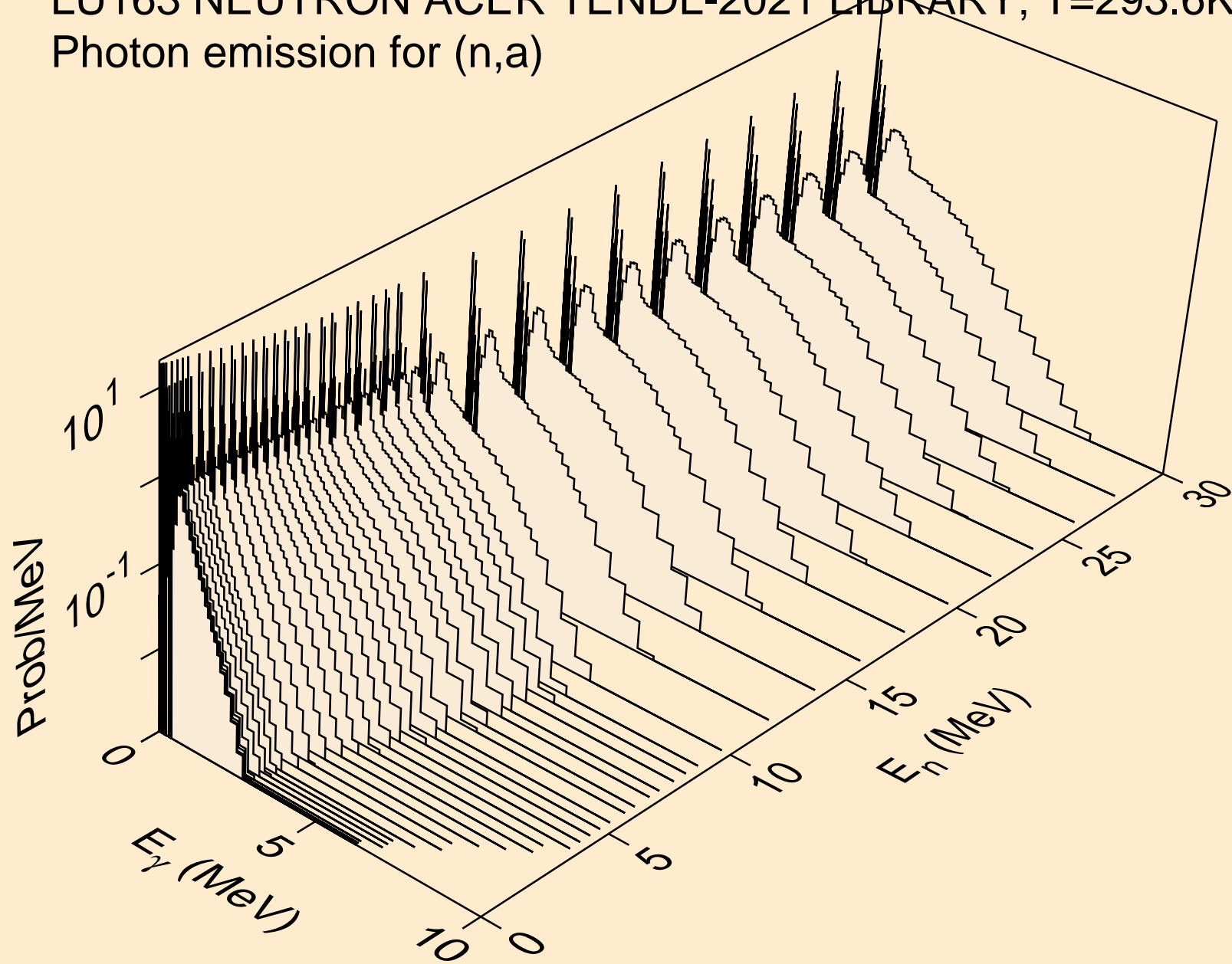
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Photon emission for (n,t)



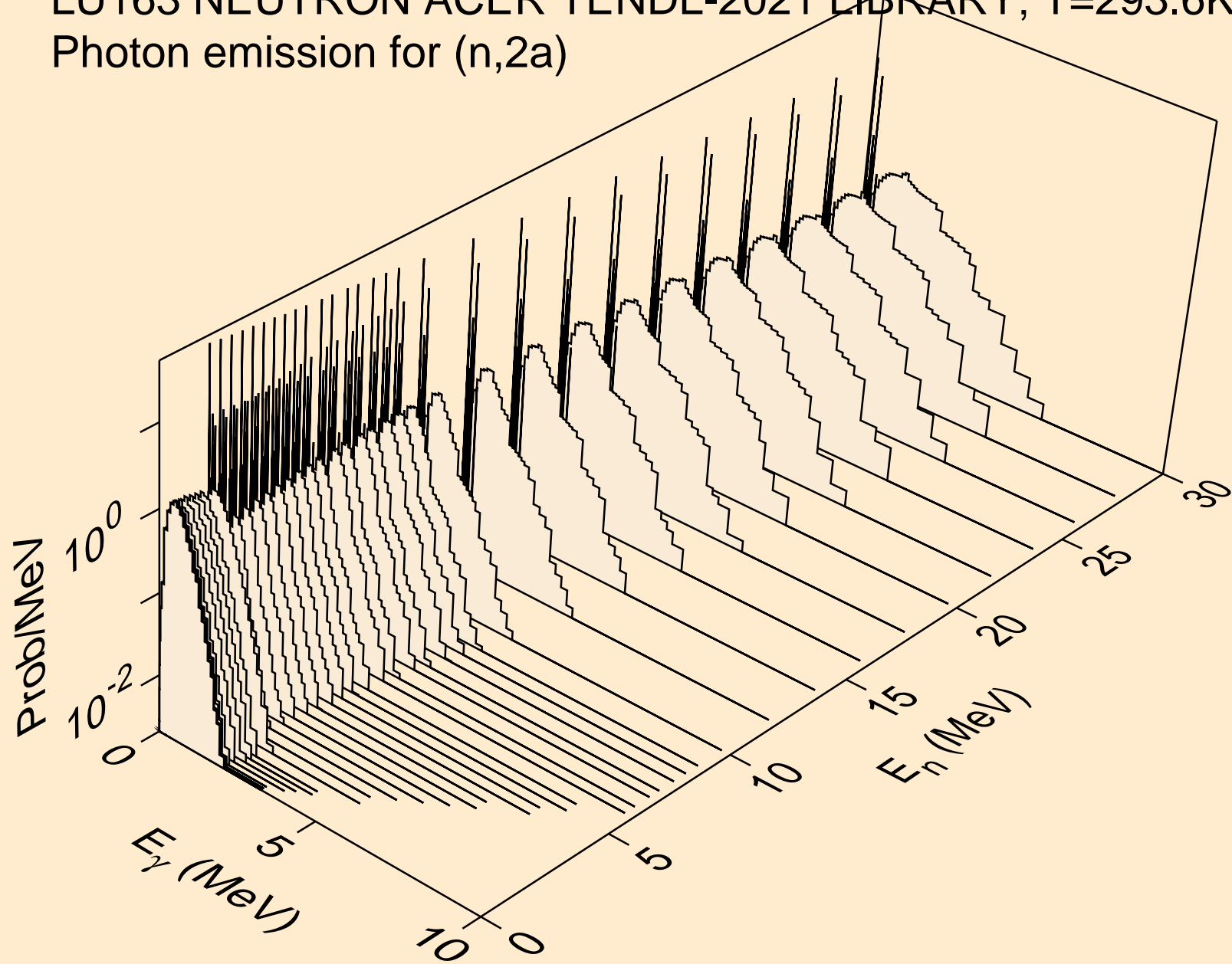
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Photon emission for (n,he3)



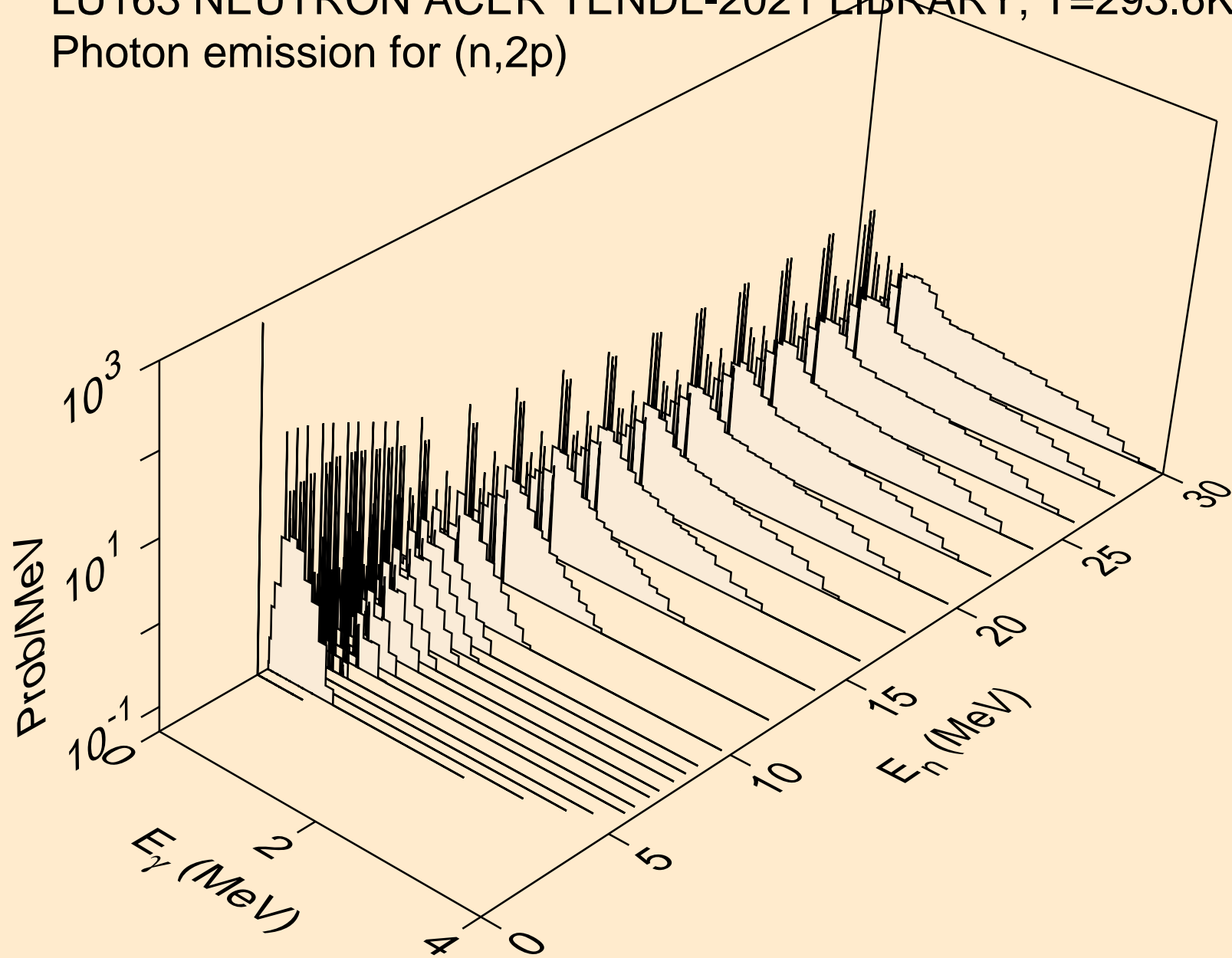
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Photon emission for (n,a)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)

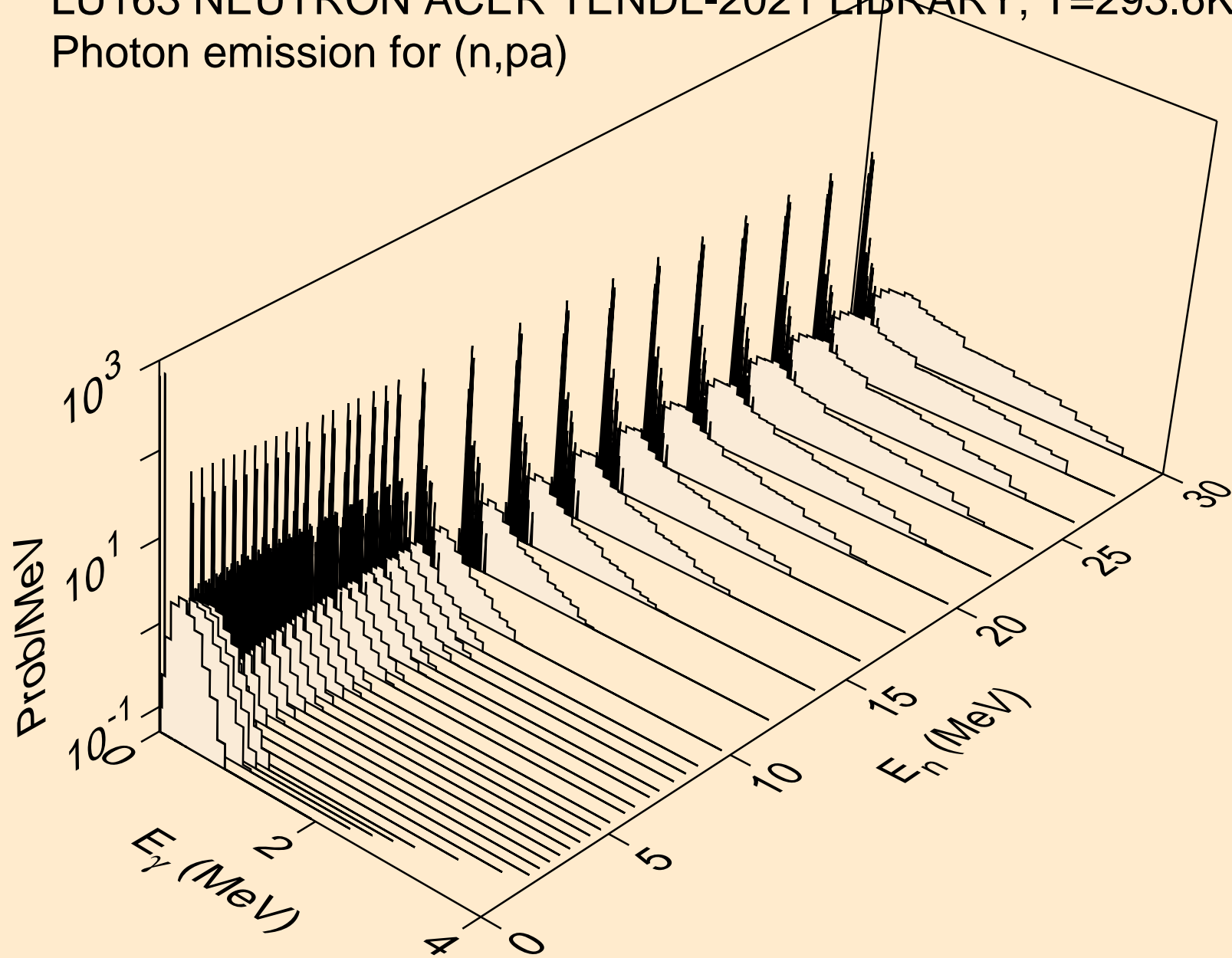


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Photon emission for (n,2p)

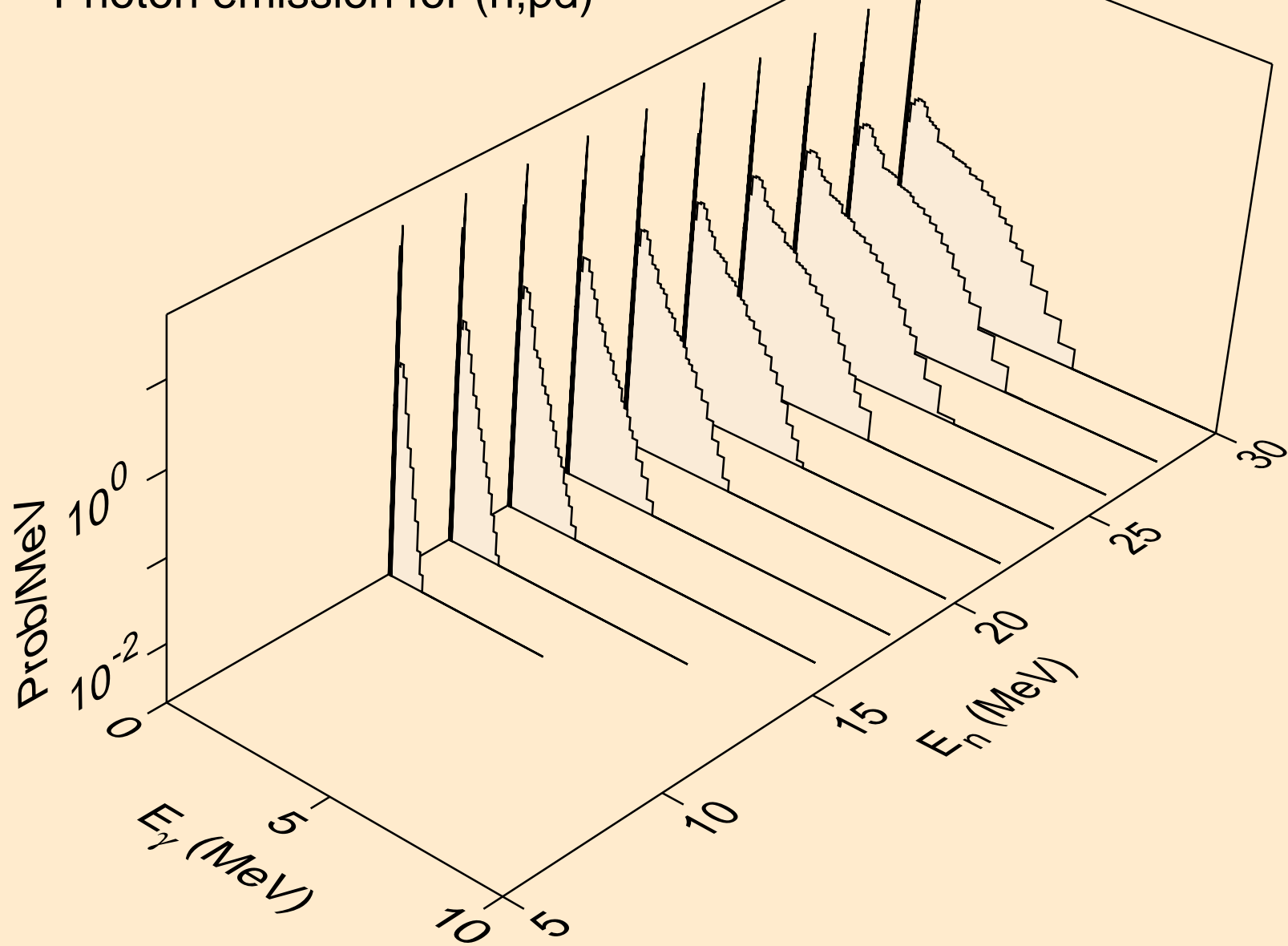




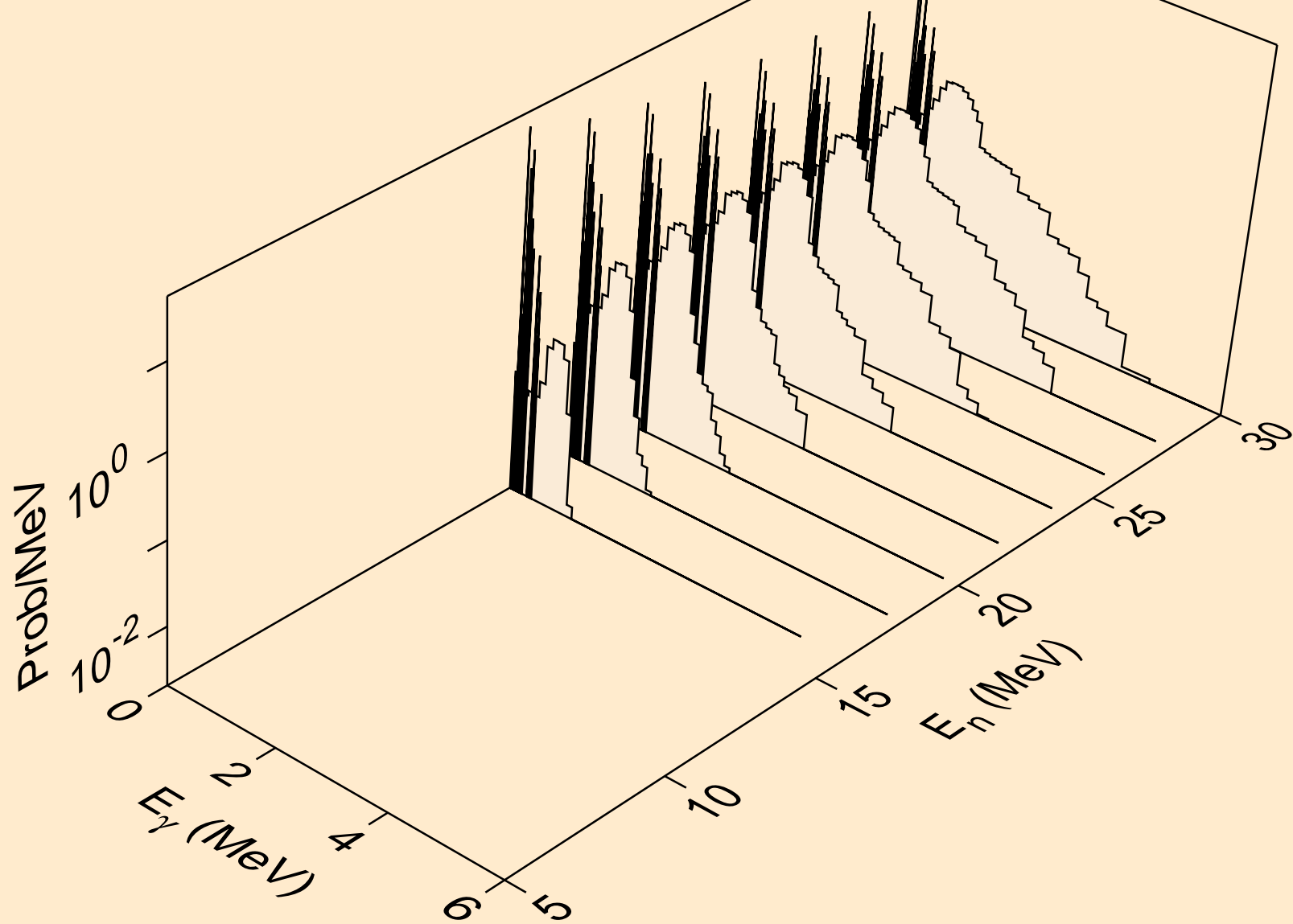
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Photon emission for (n,p)



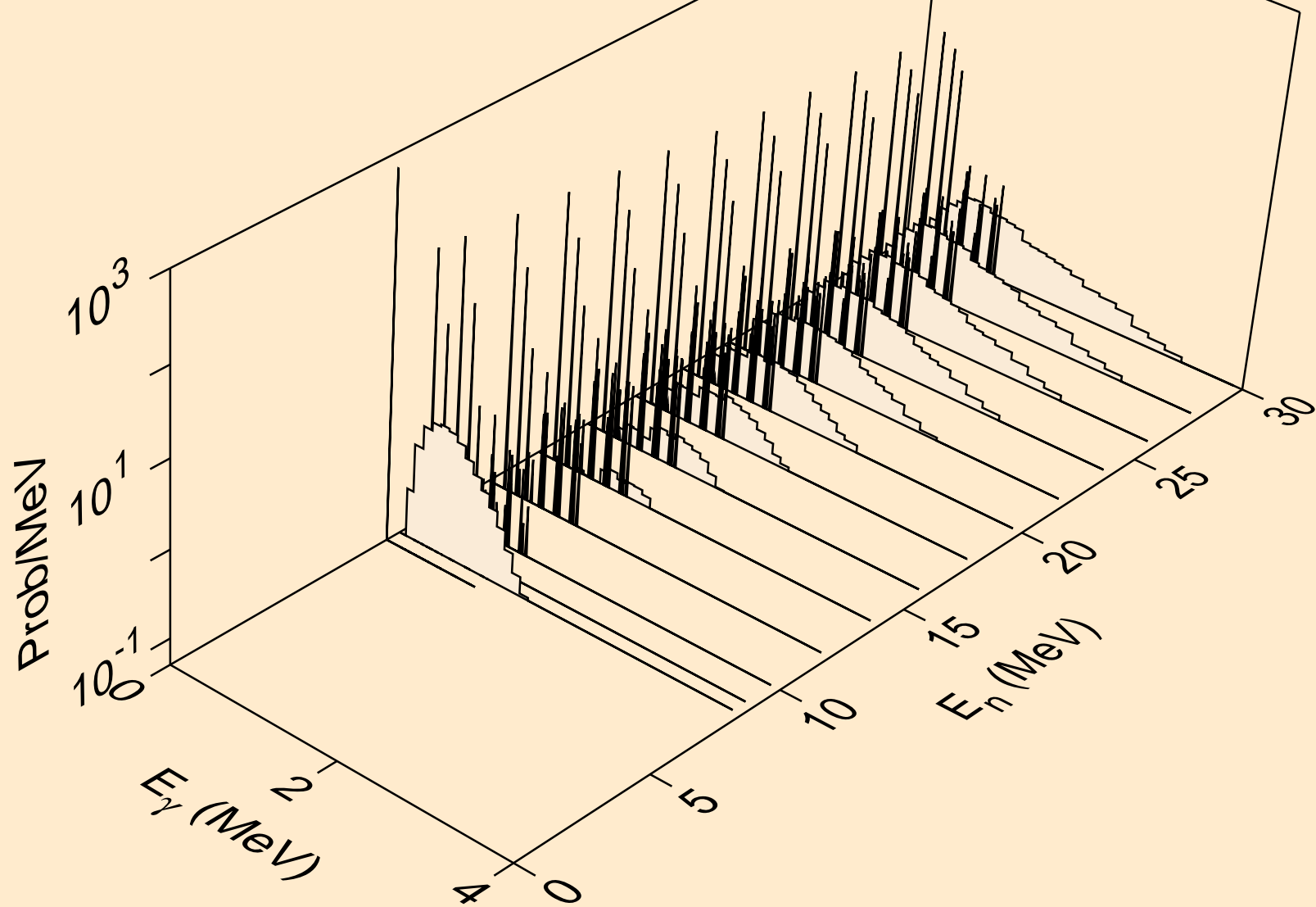
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Photon emission for (n,pd)



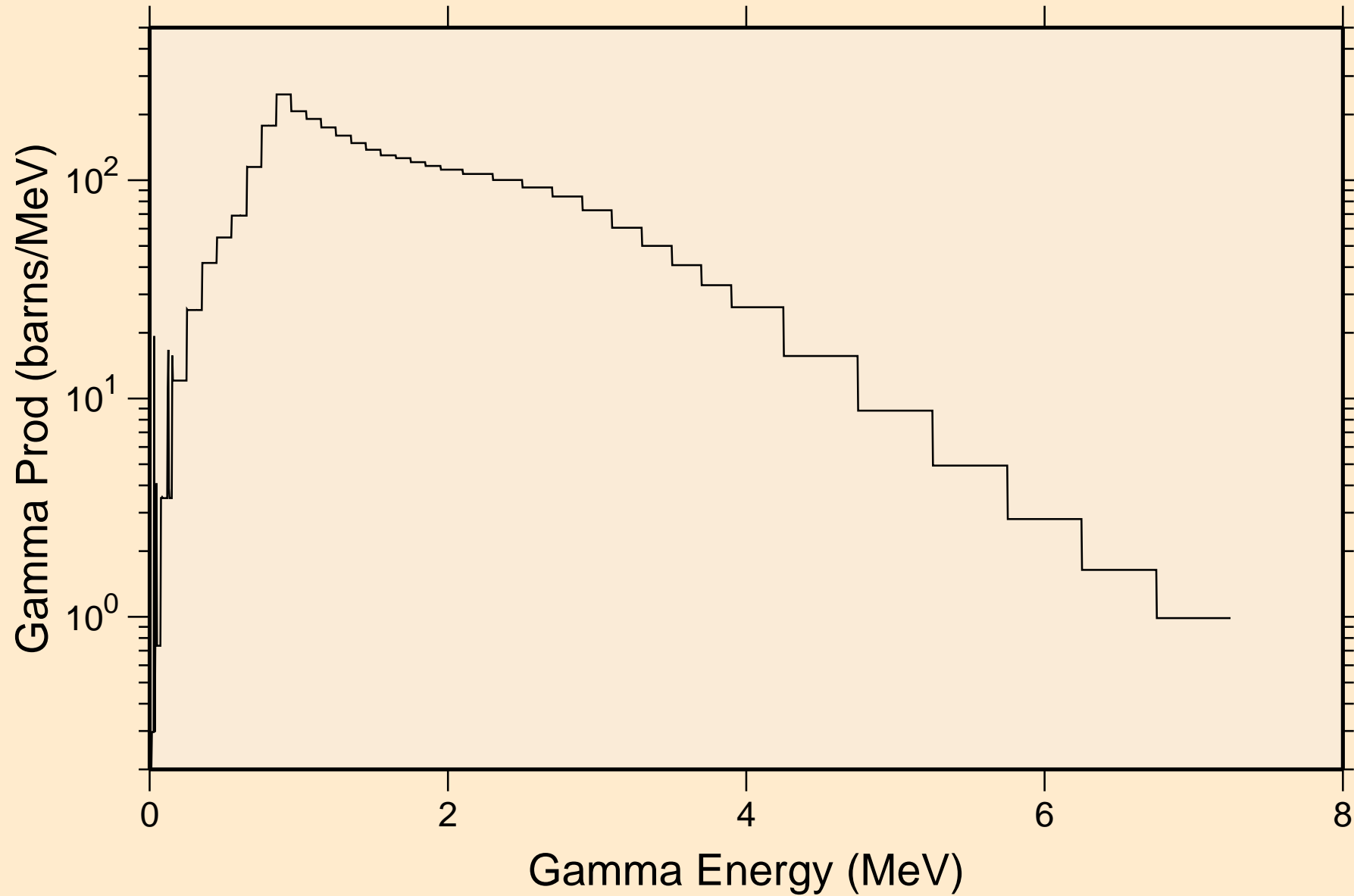
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Photon emission for (n,pt)



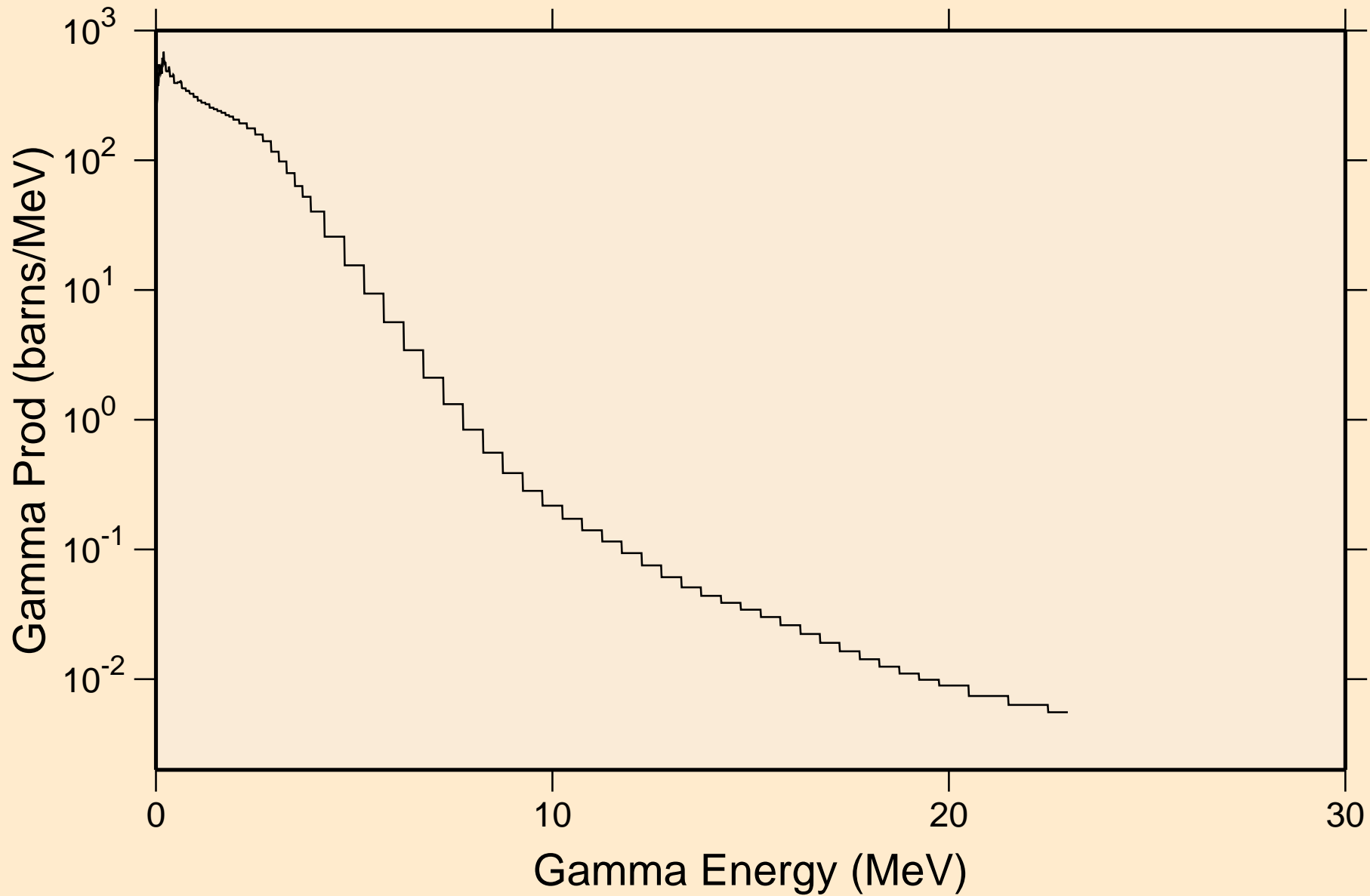
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Photon emission for (n,da)



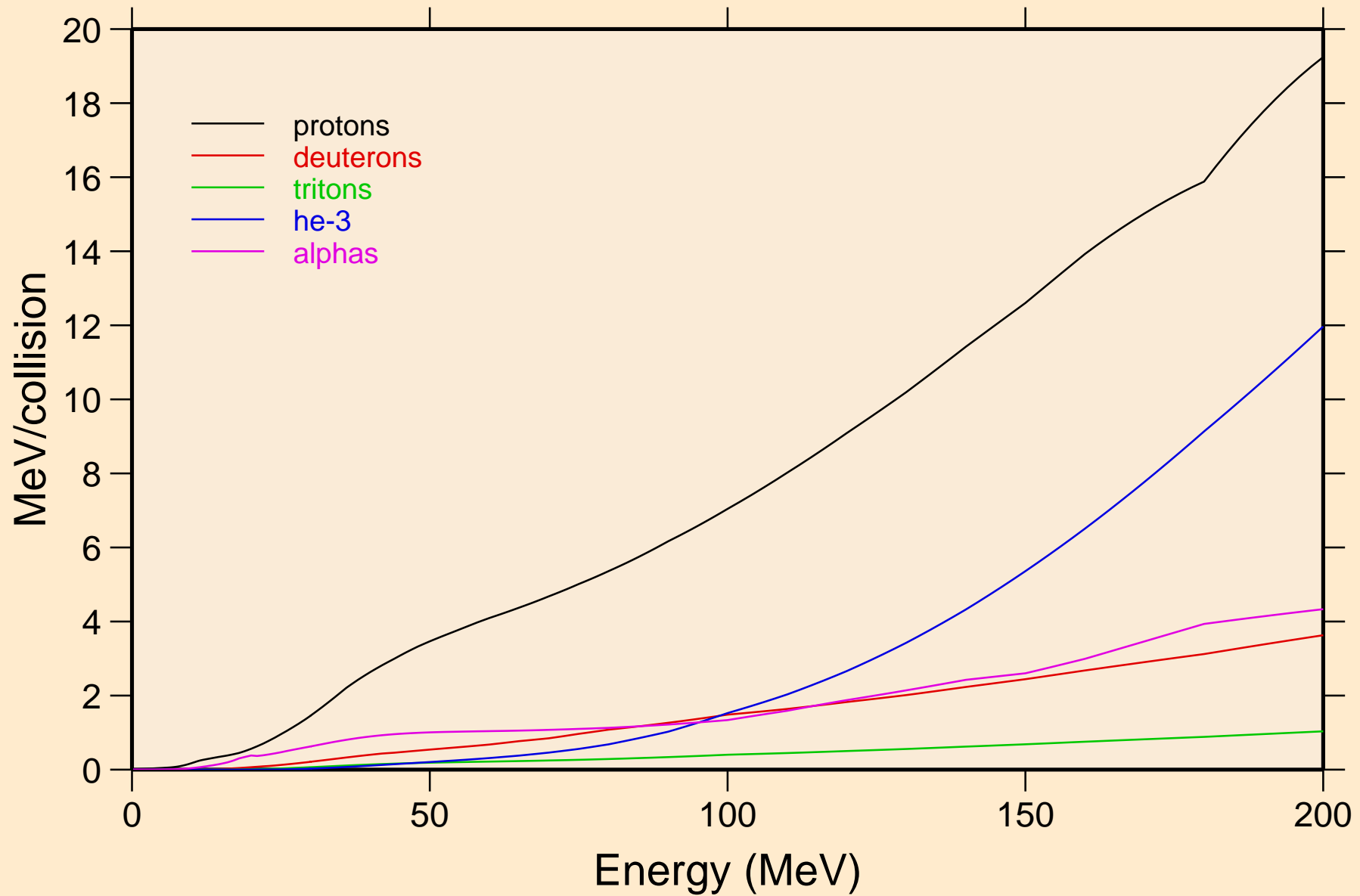
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thermal capture photon spectrum



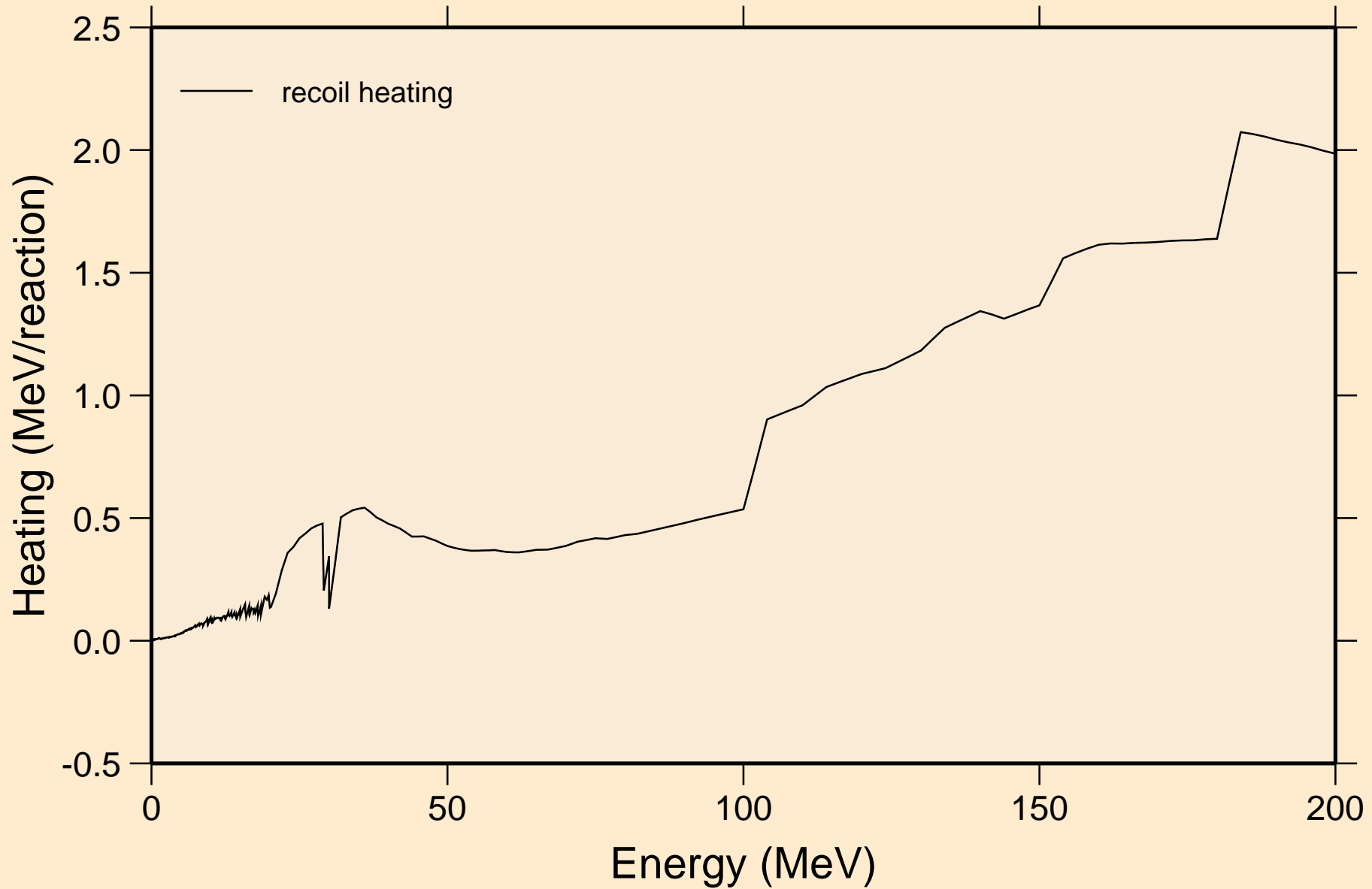
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14 MeV photon spectrum



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle heating contributions

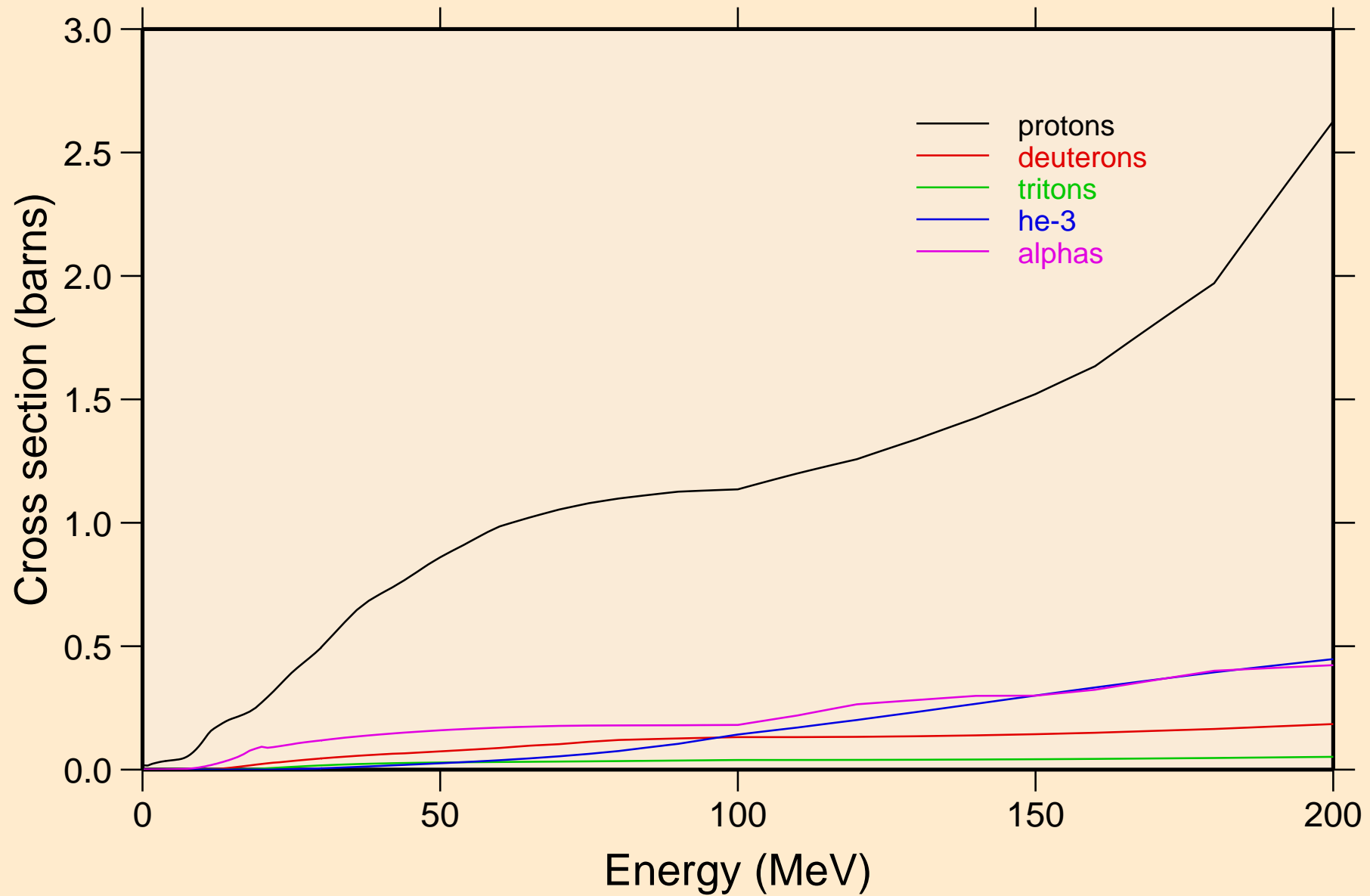


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Recoil Heating

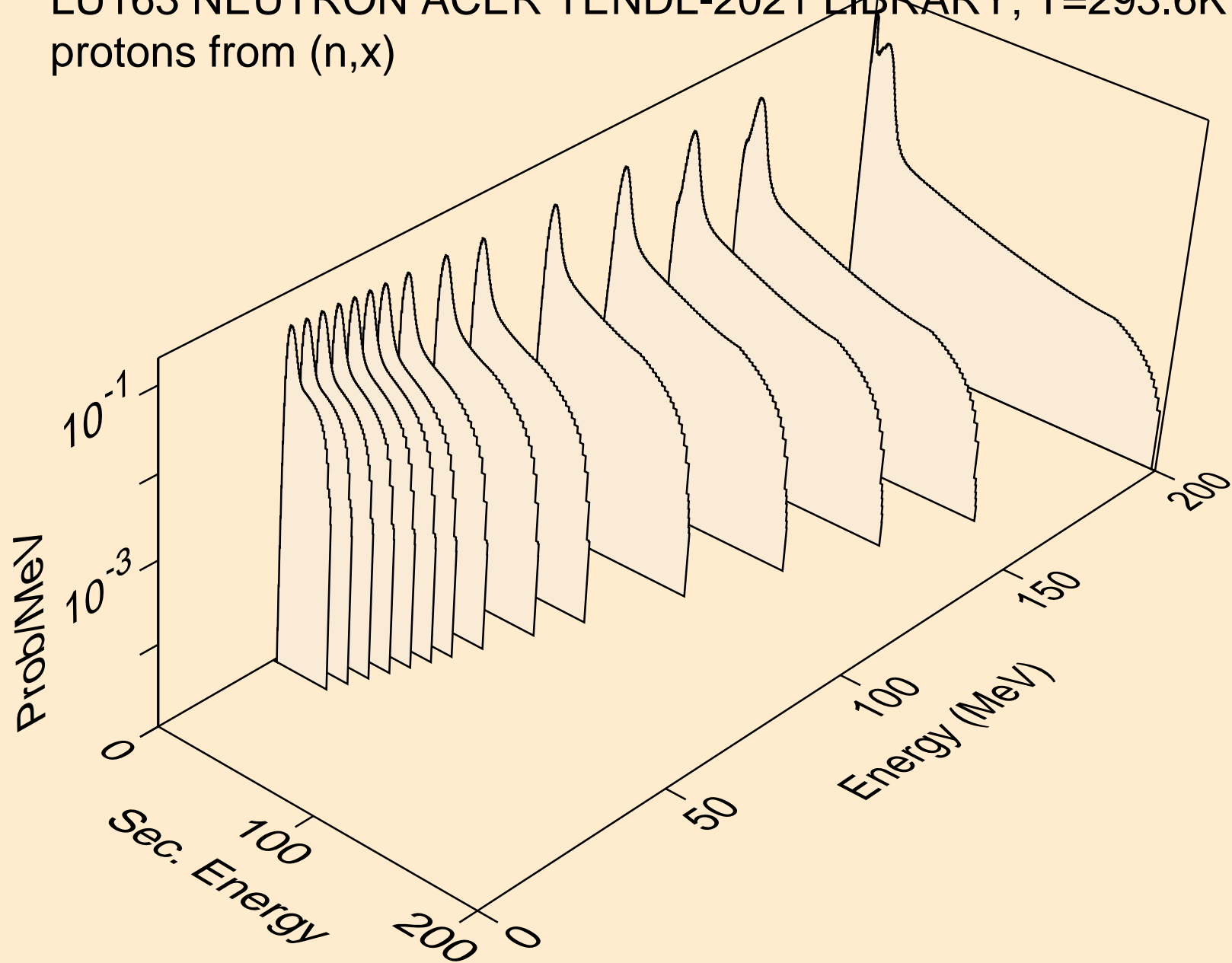




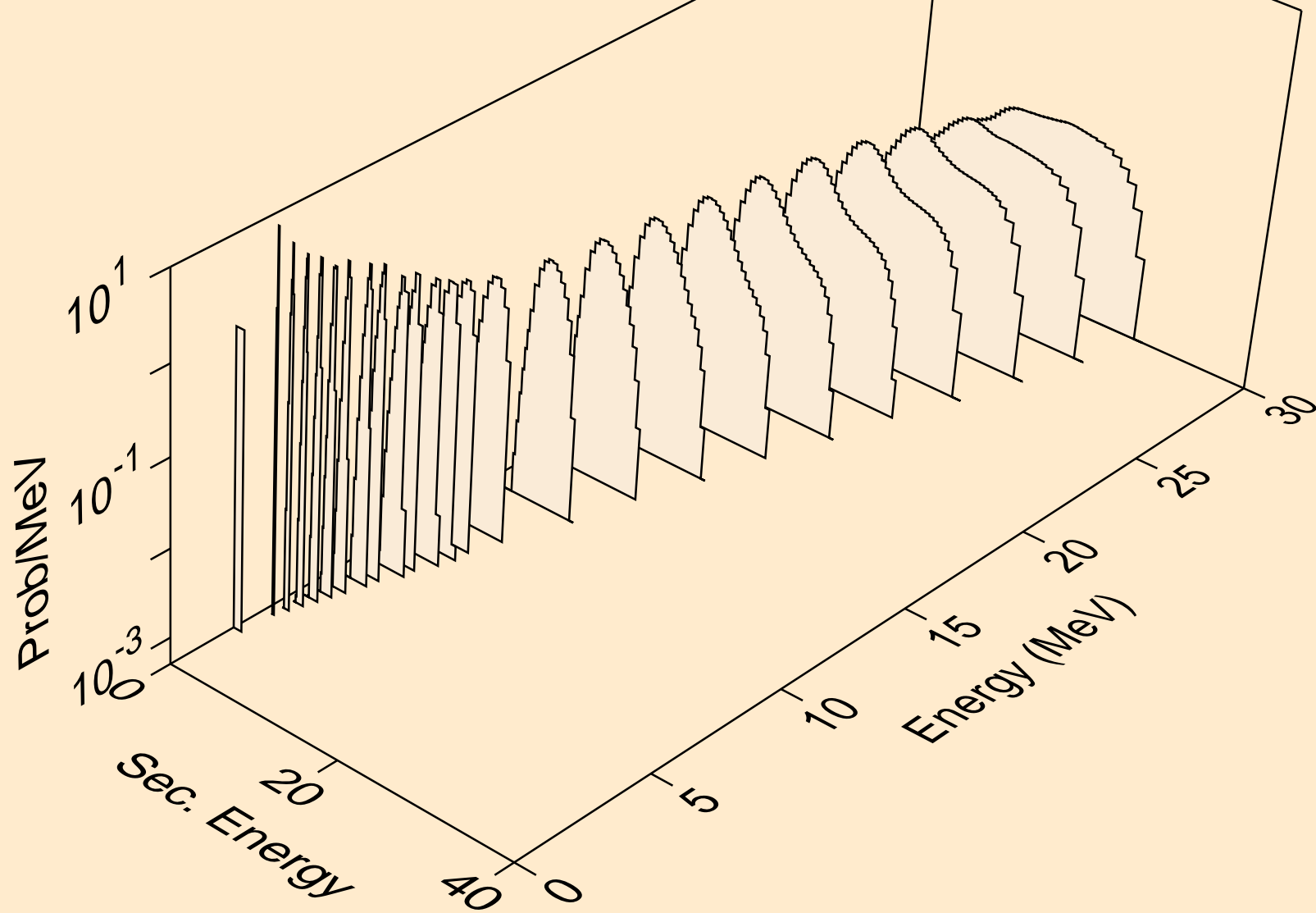
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Particle production cross sections



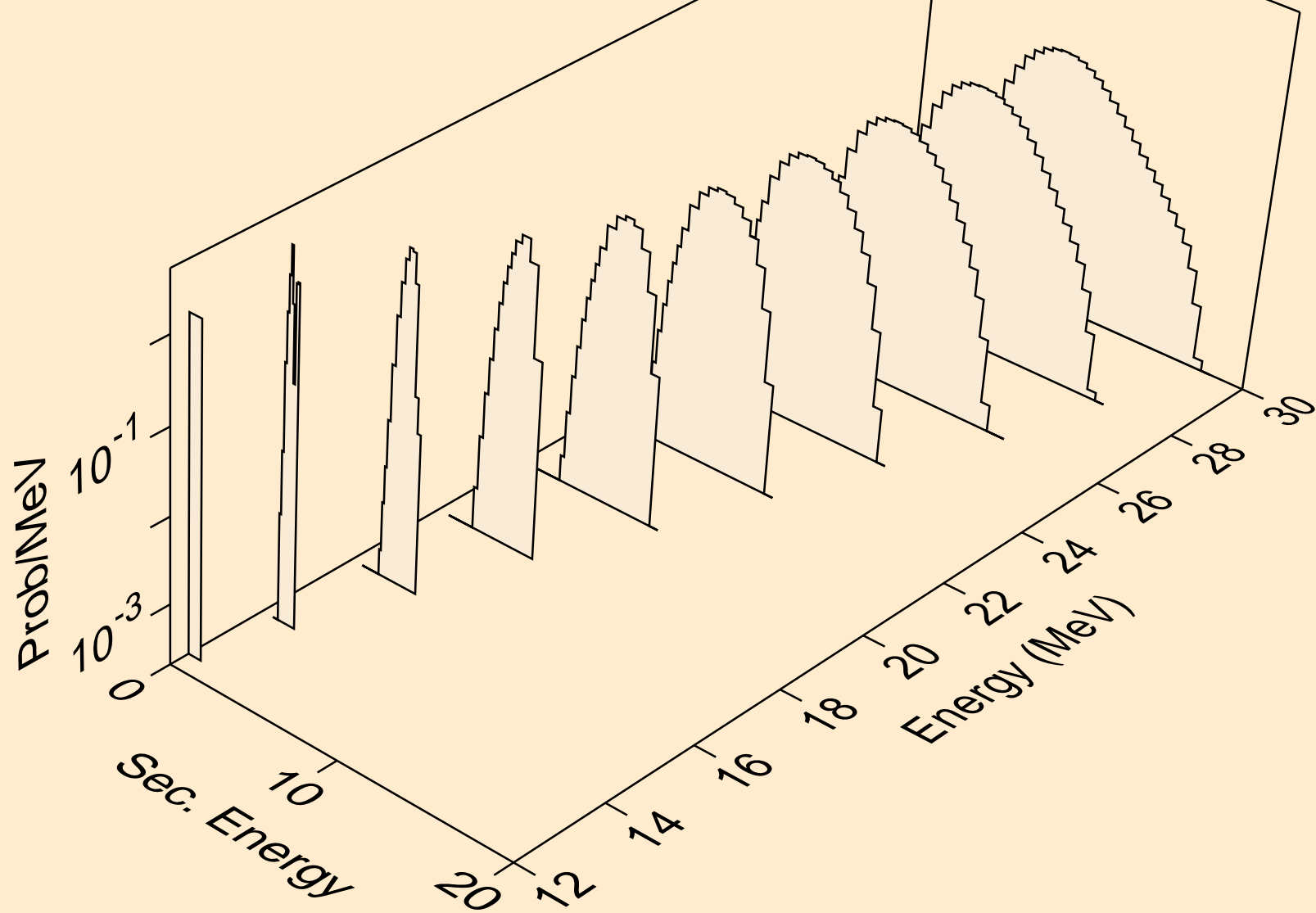
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protons from (n,x)



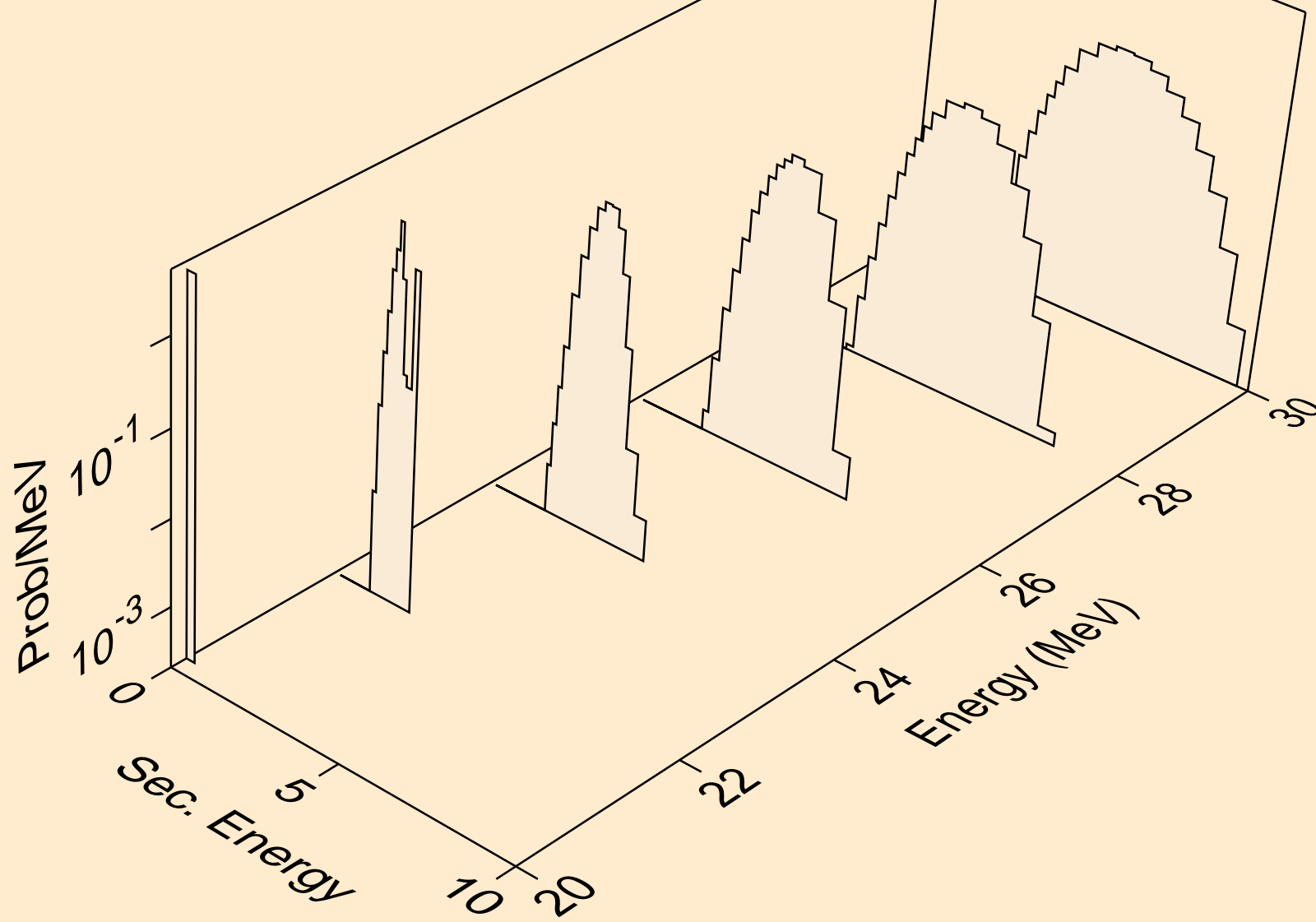
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protons from (n,n\*)p



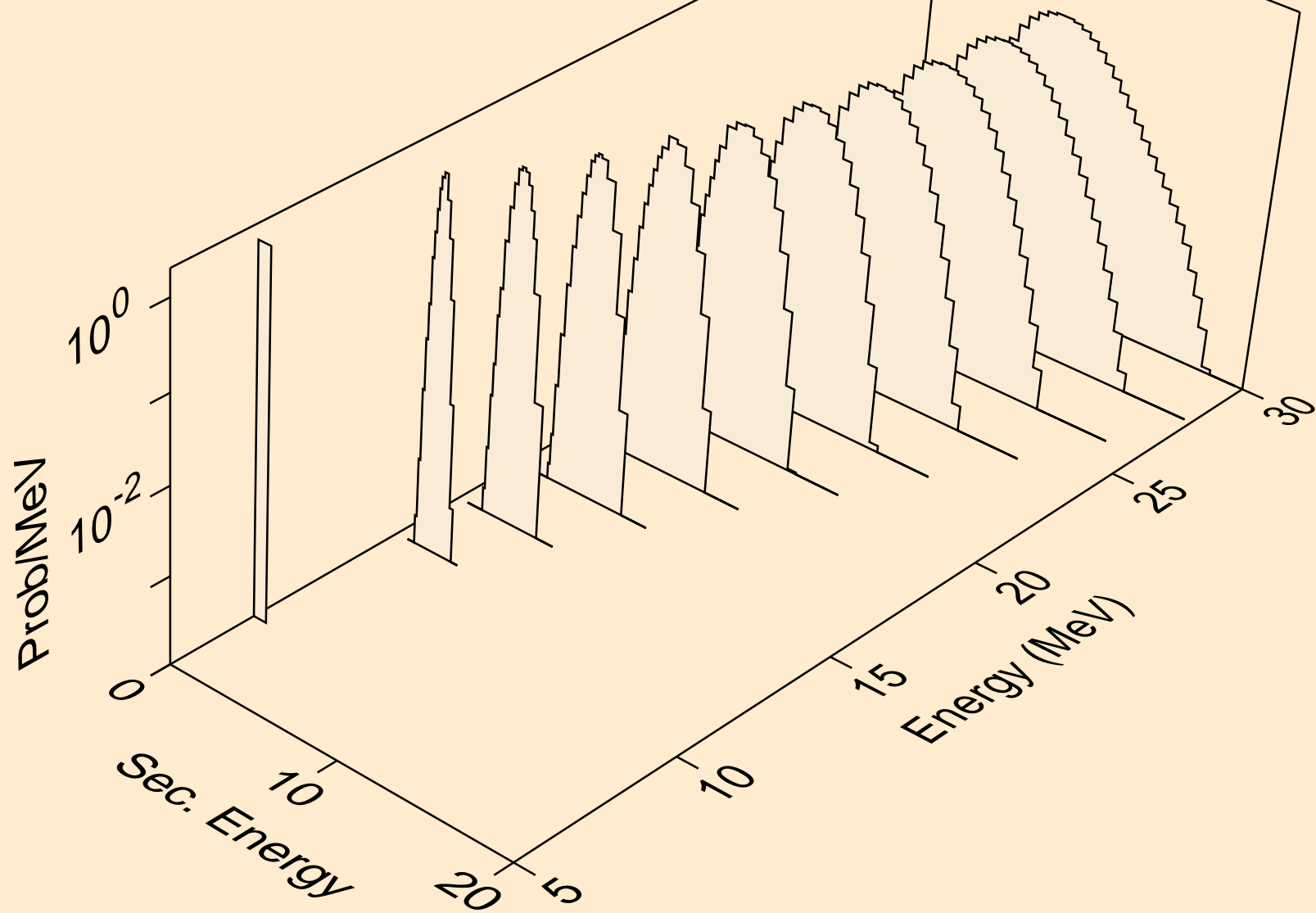
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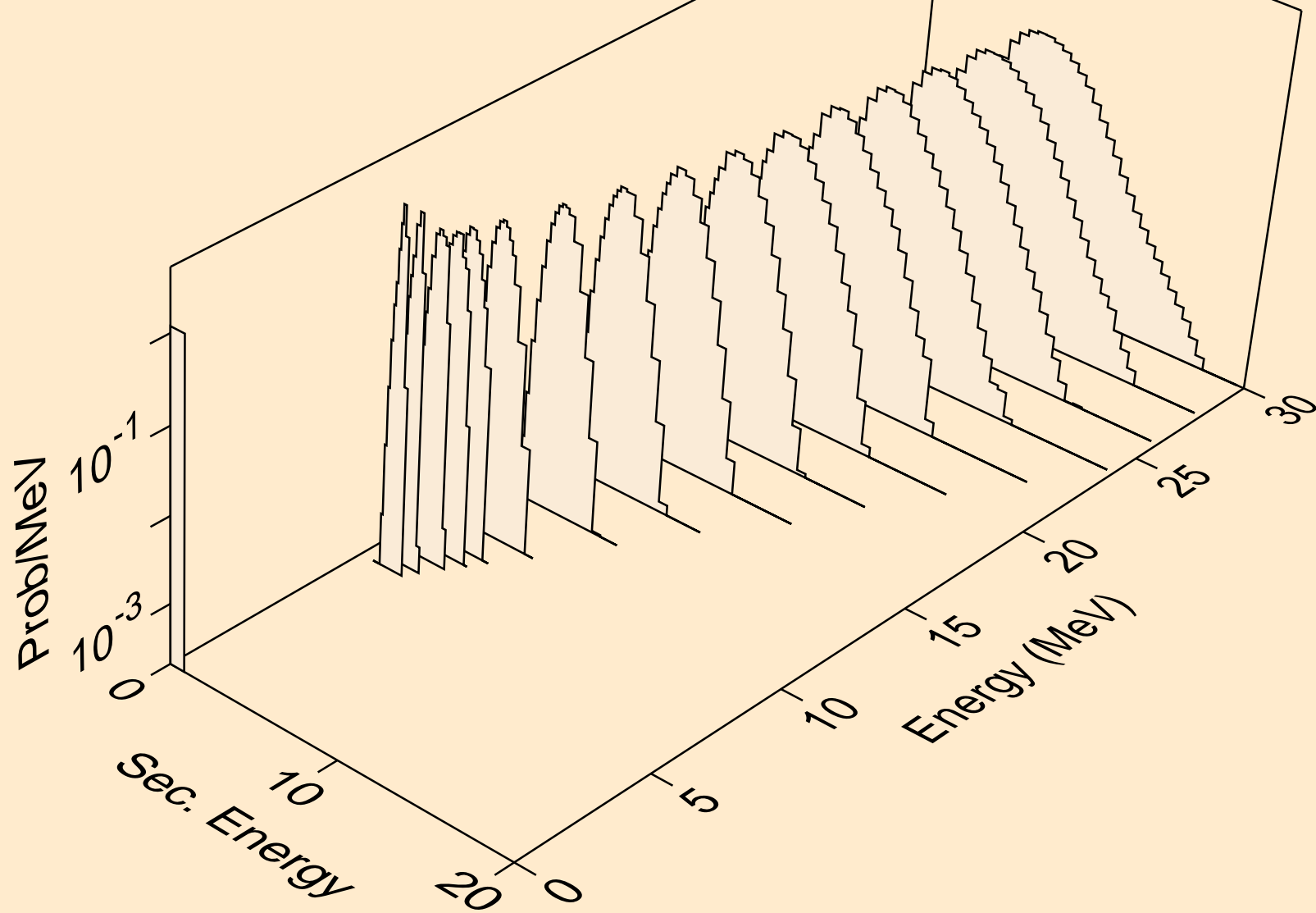
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protons from (n,3np)



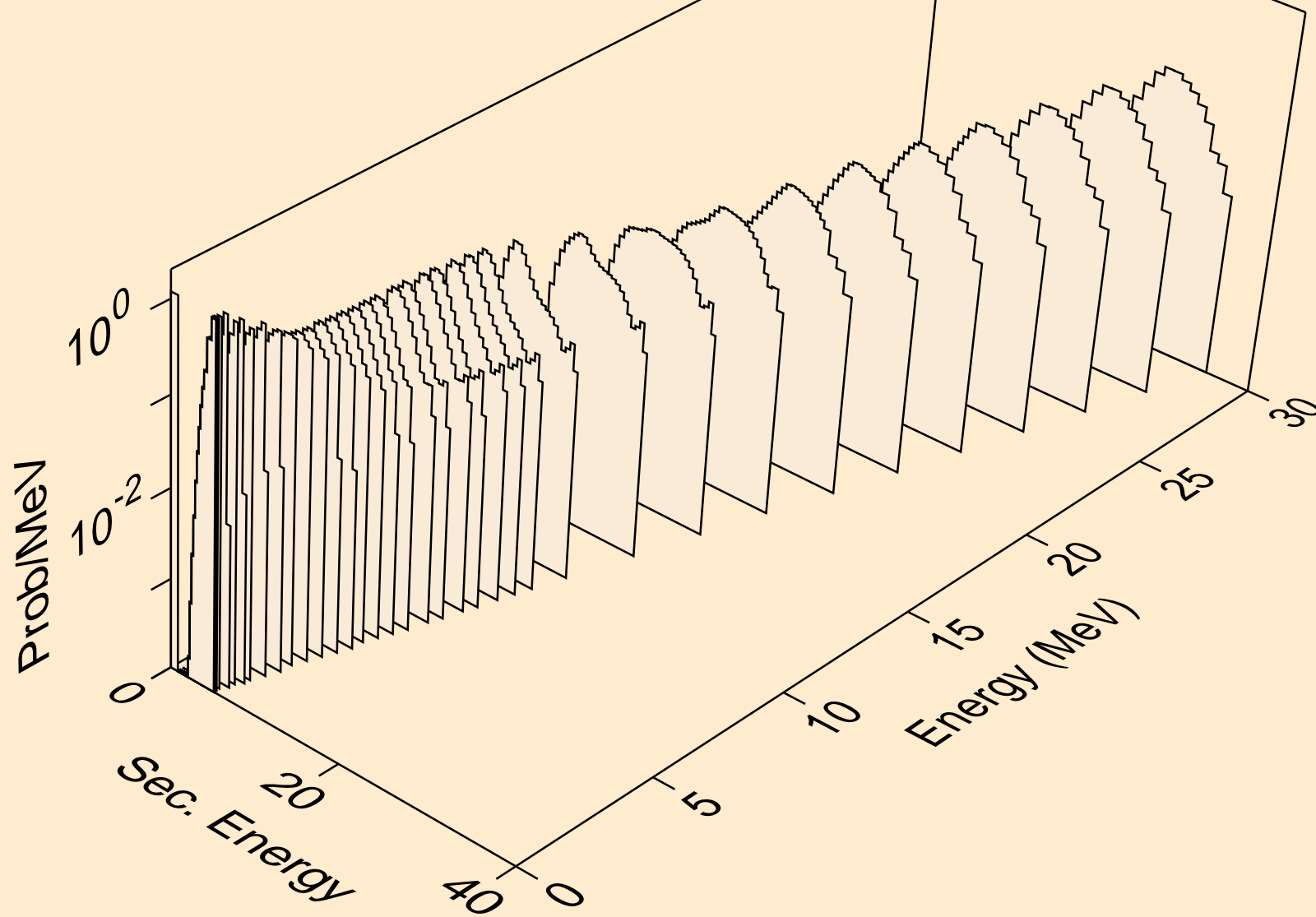
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protons from (n,2np)



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protons from (n,npa)

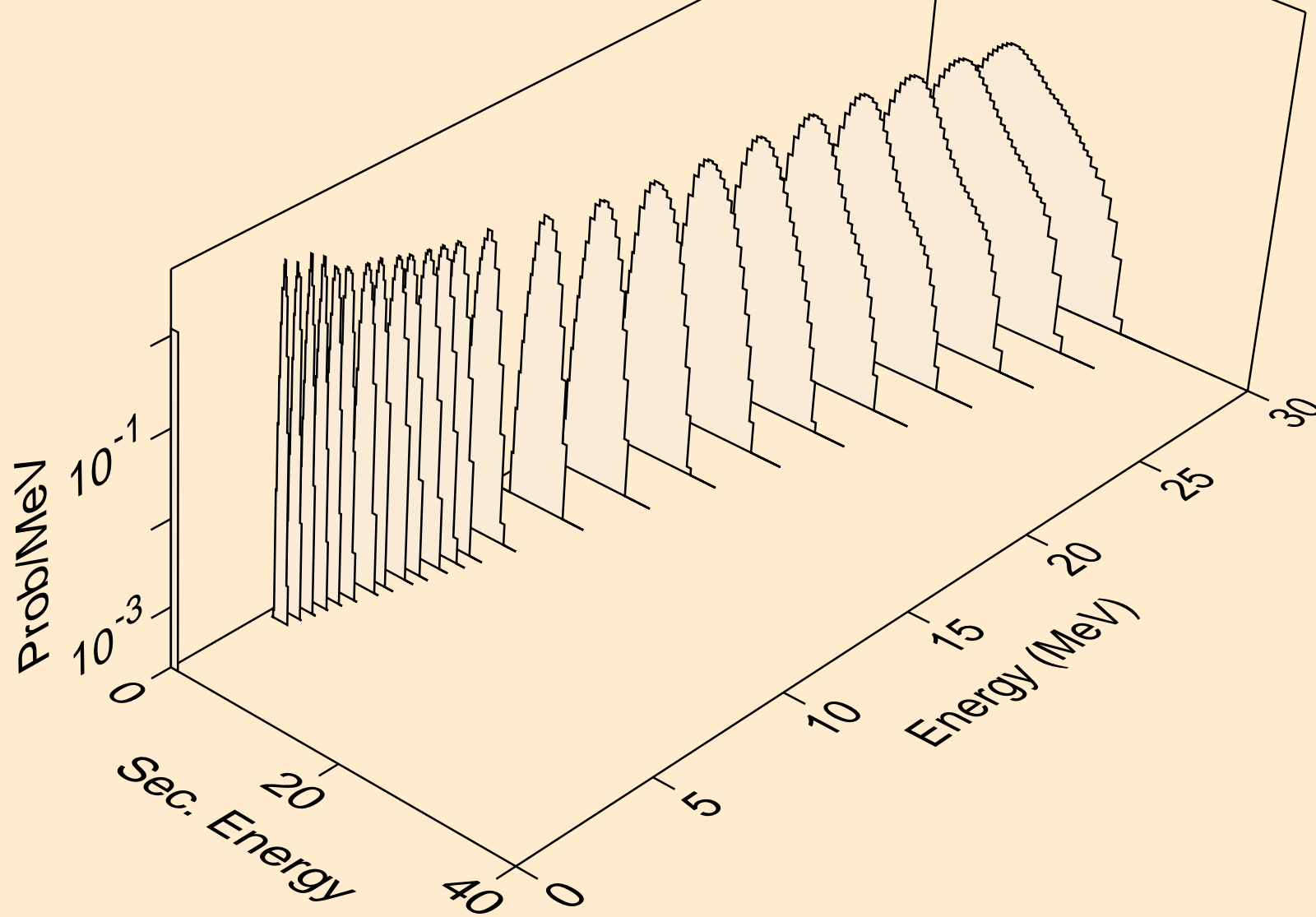


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protons from (n,p)

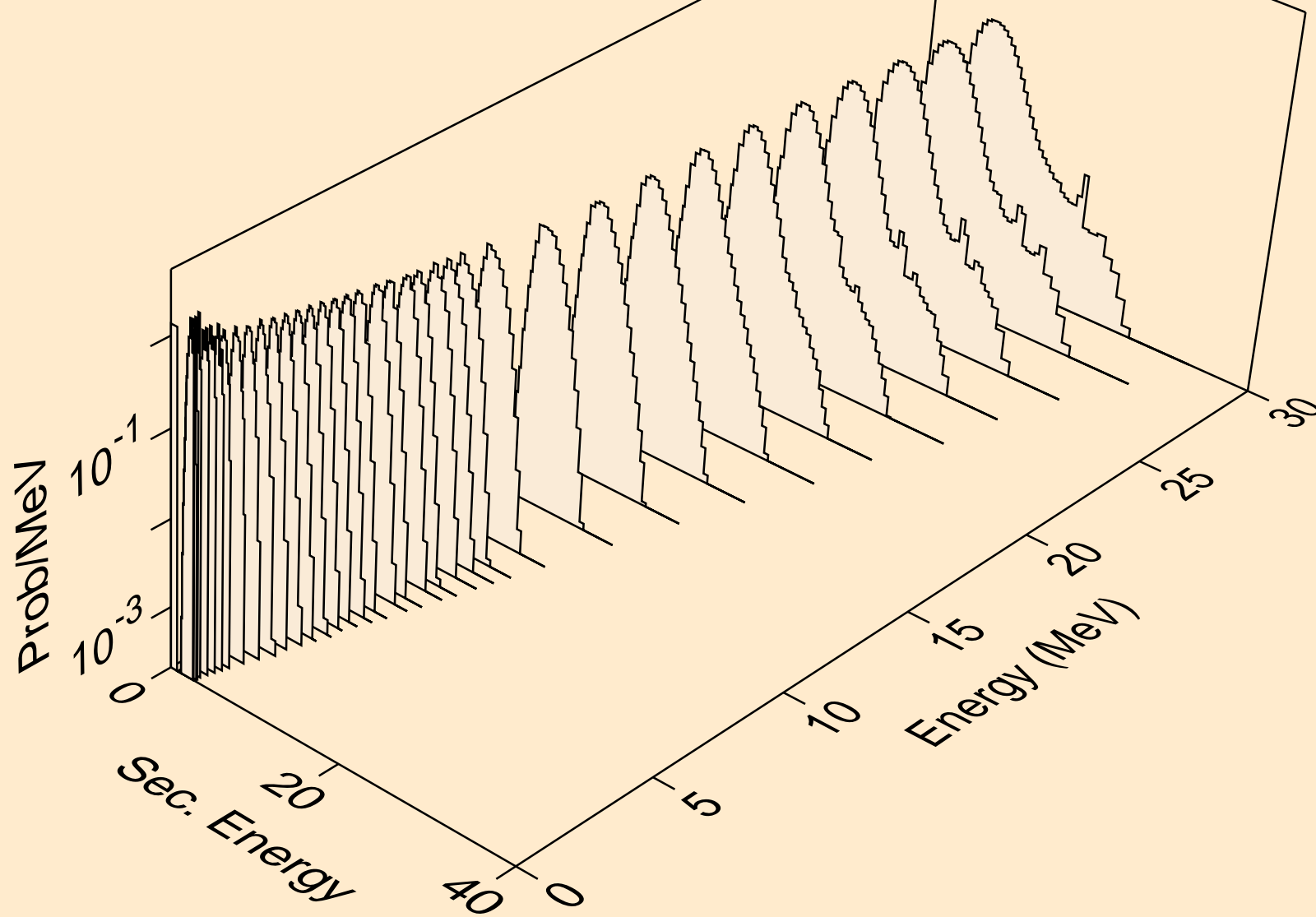




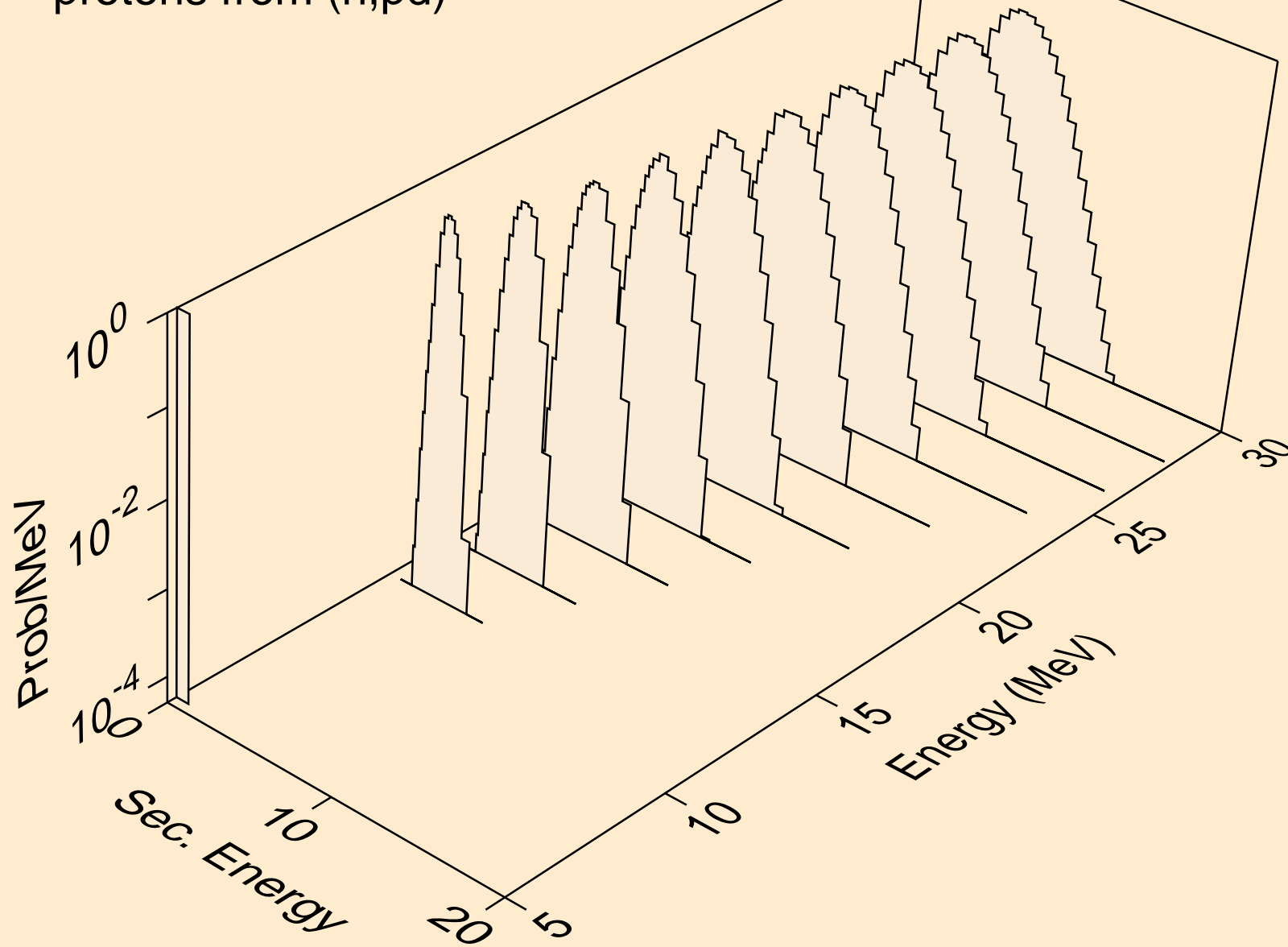
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protons from (n,2p)



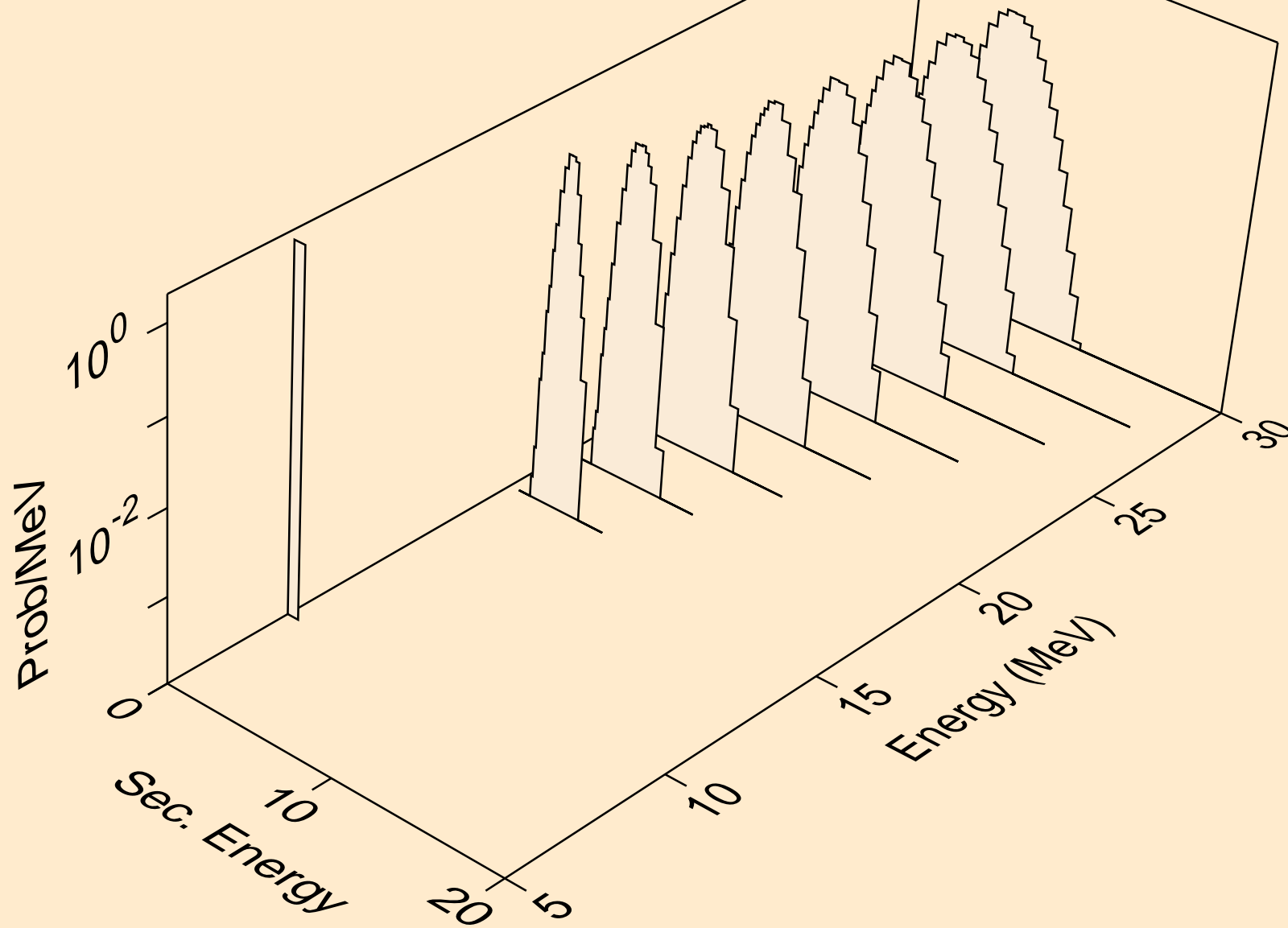
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protons from (n,p)



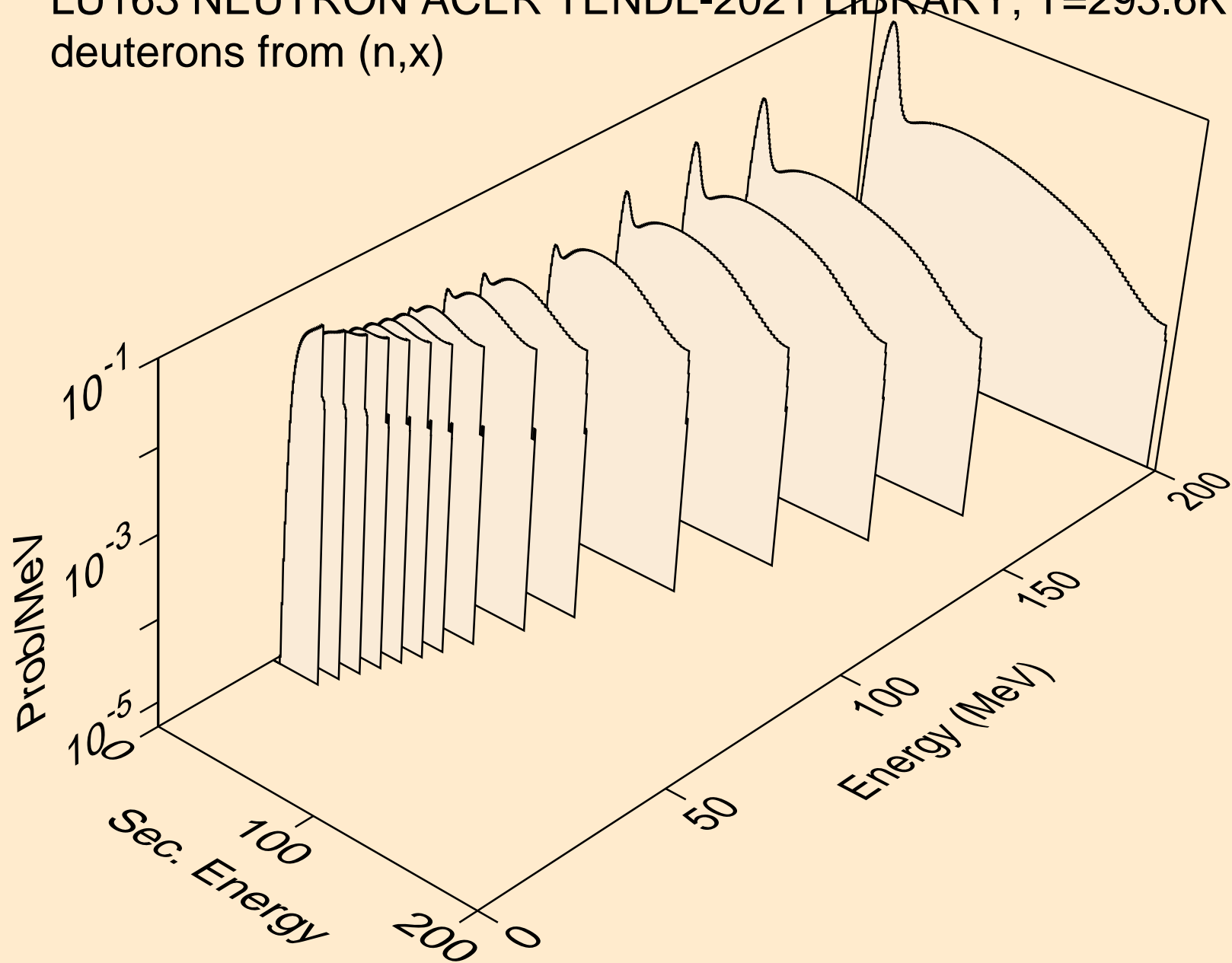
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protons from (n,pd)



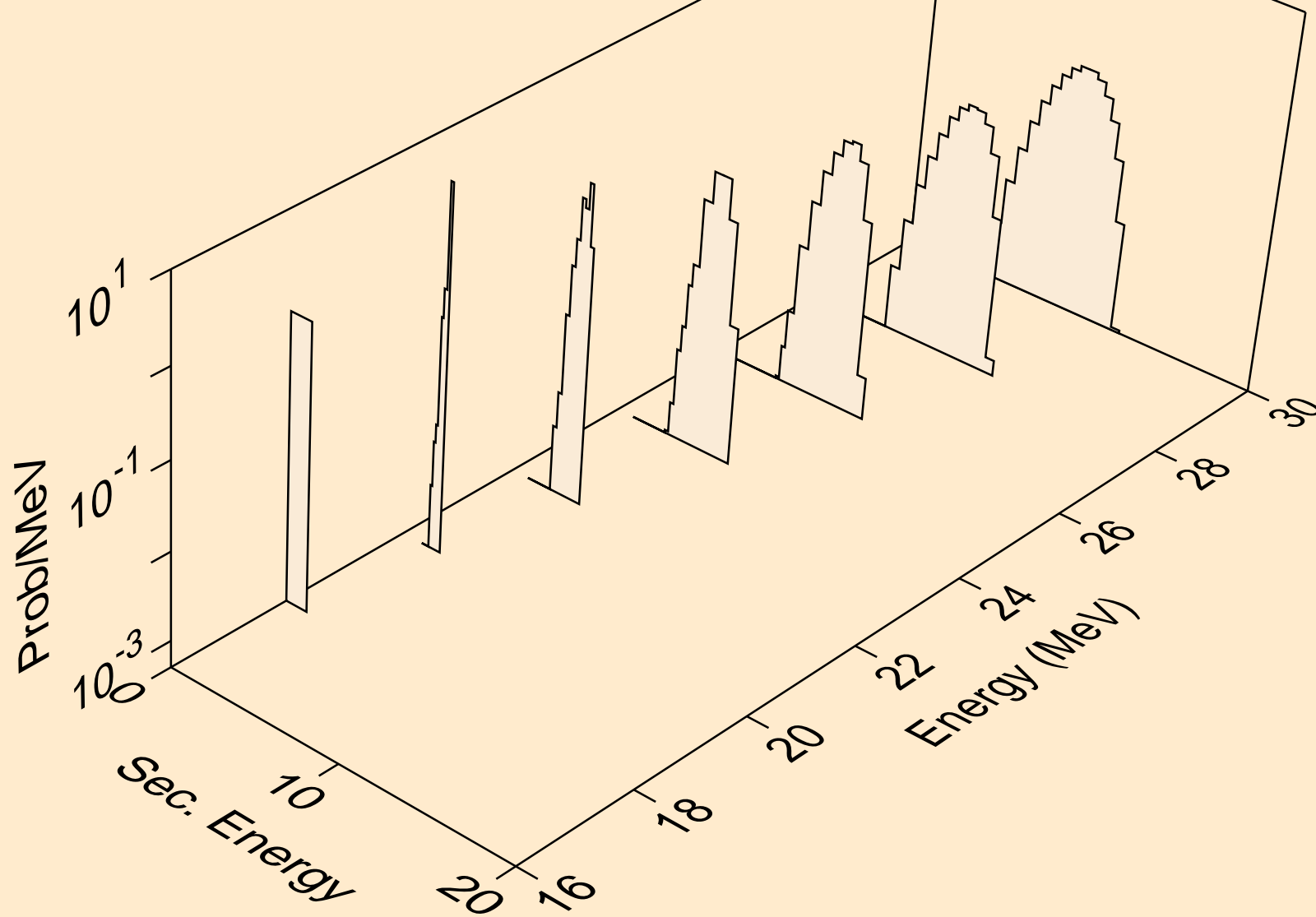
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protons from (n,pt)



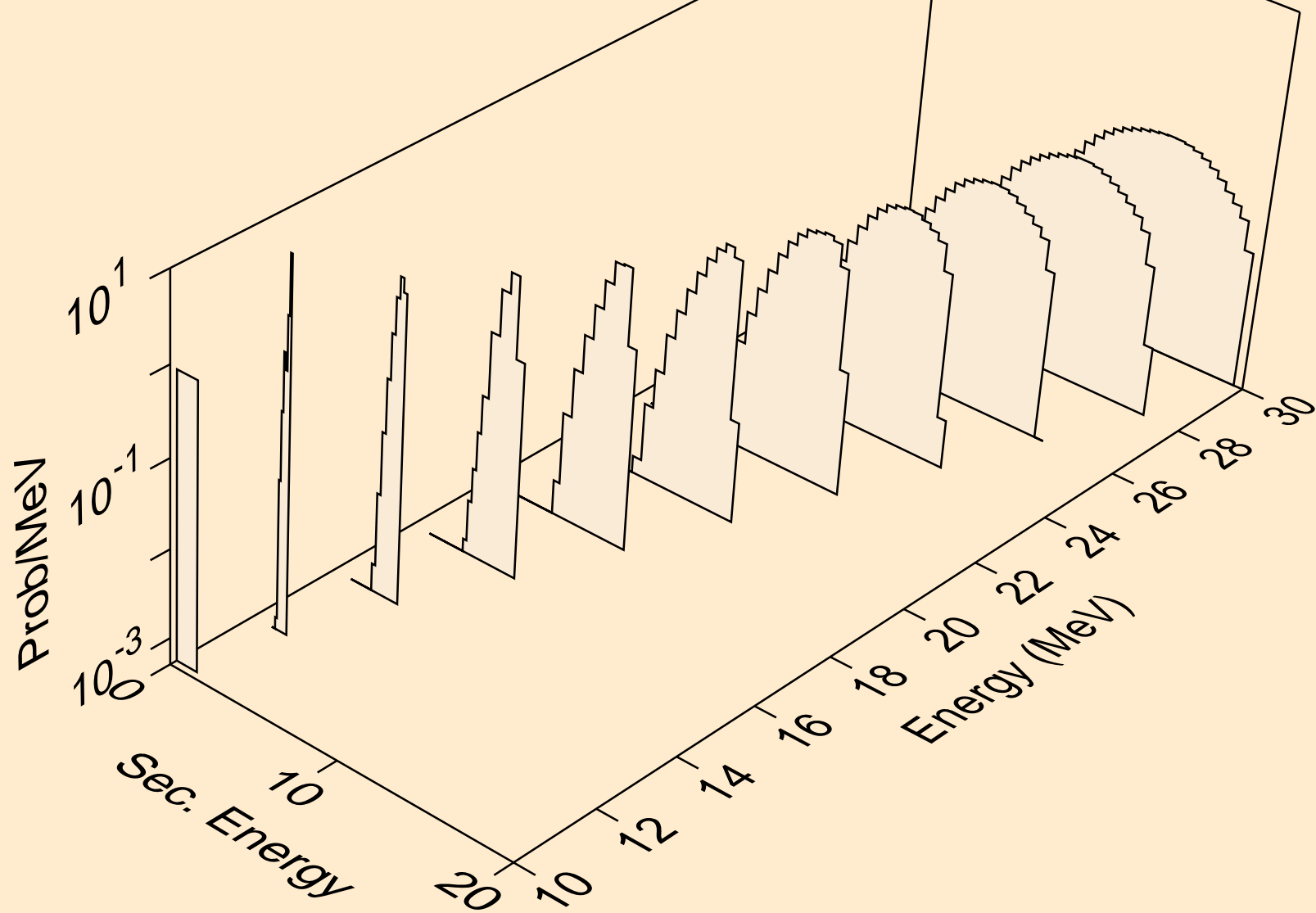
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deuterons from (n,x)



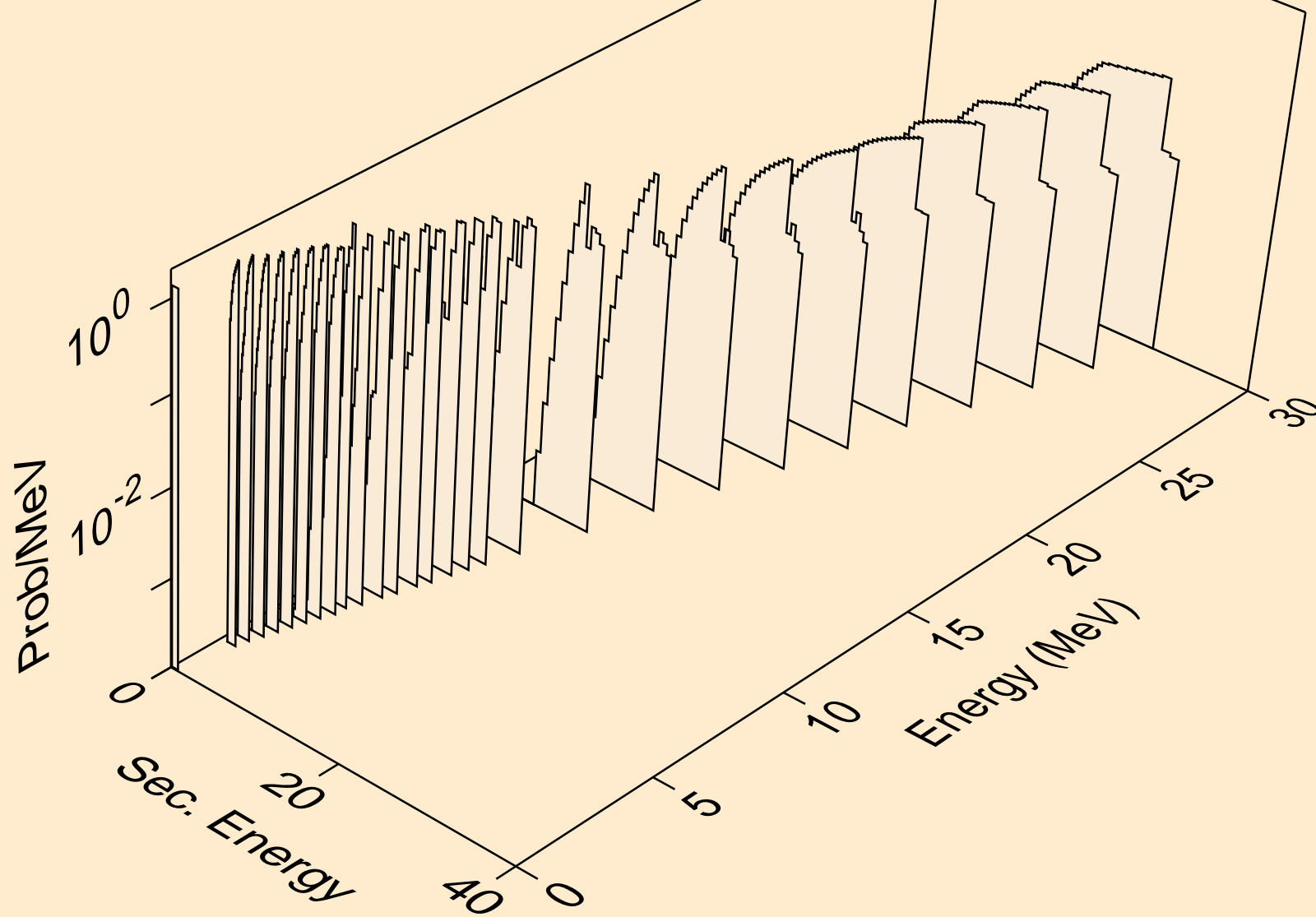
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LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d

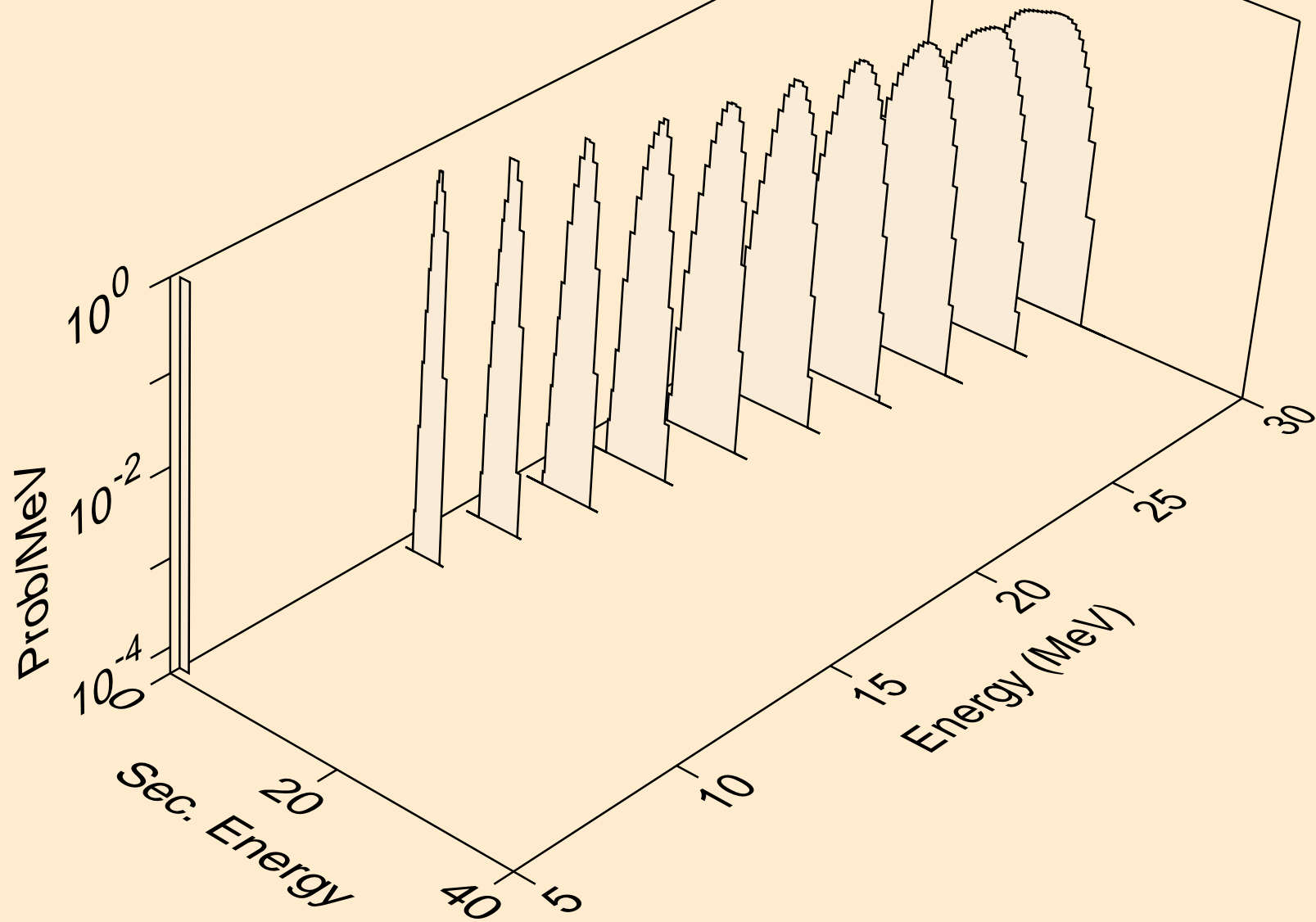


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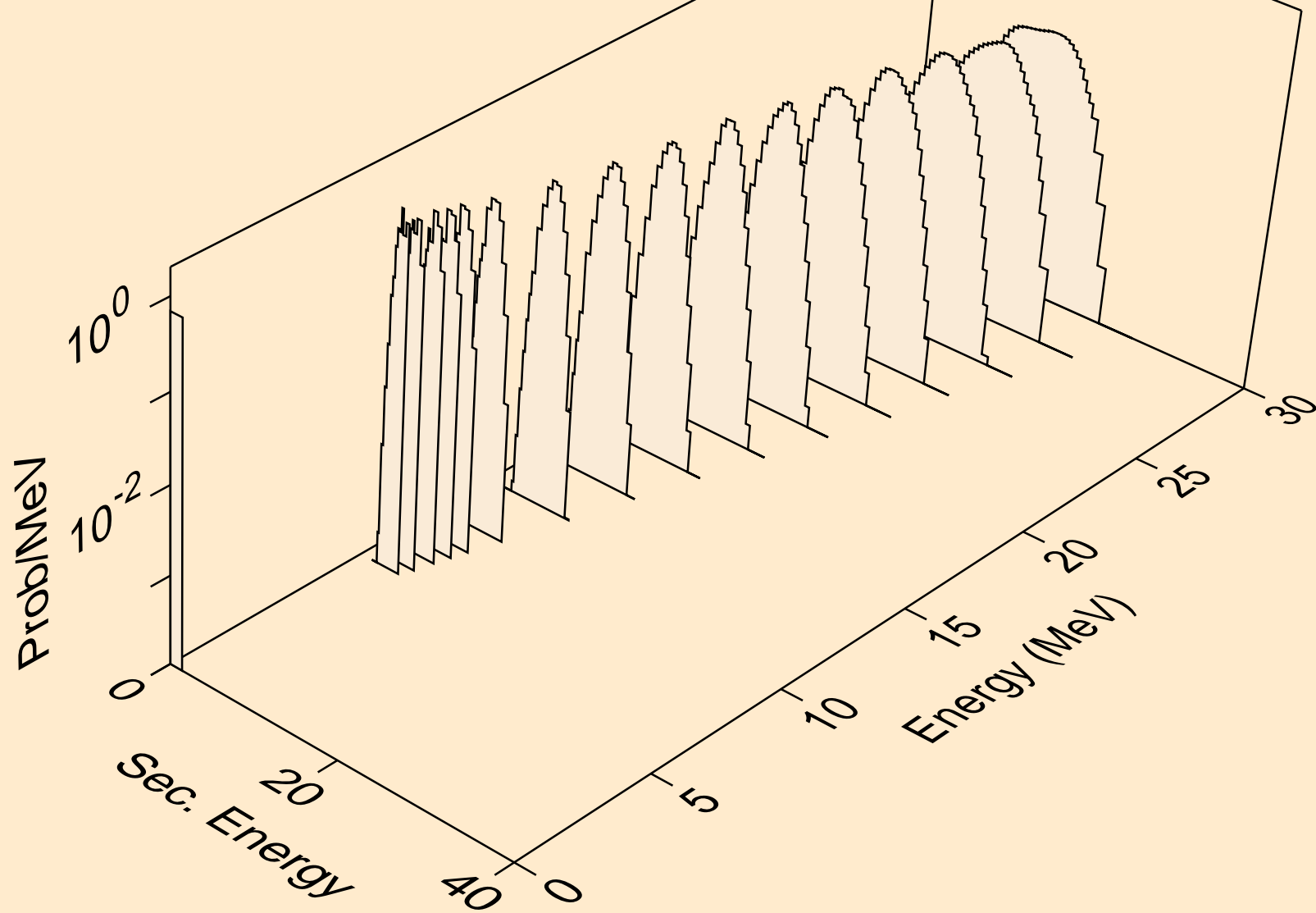




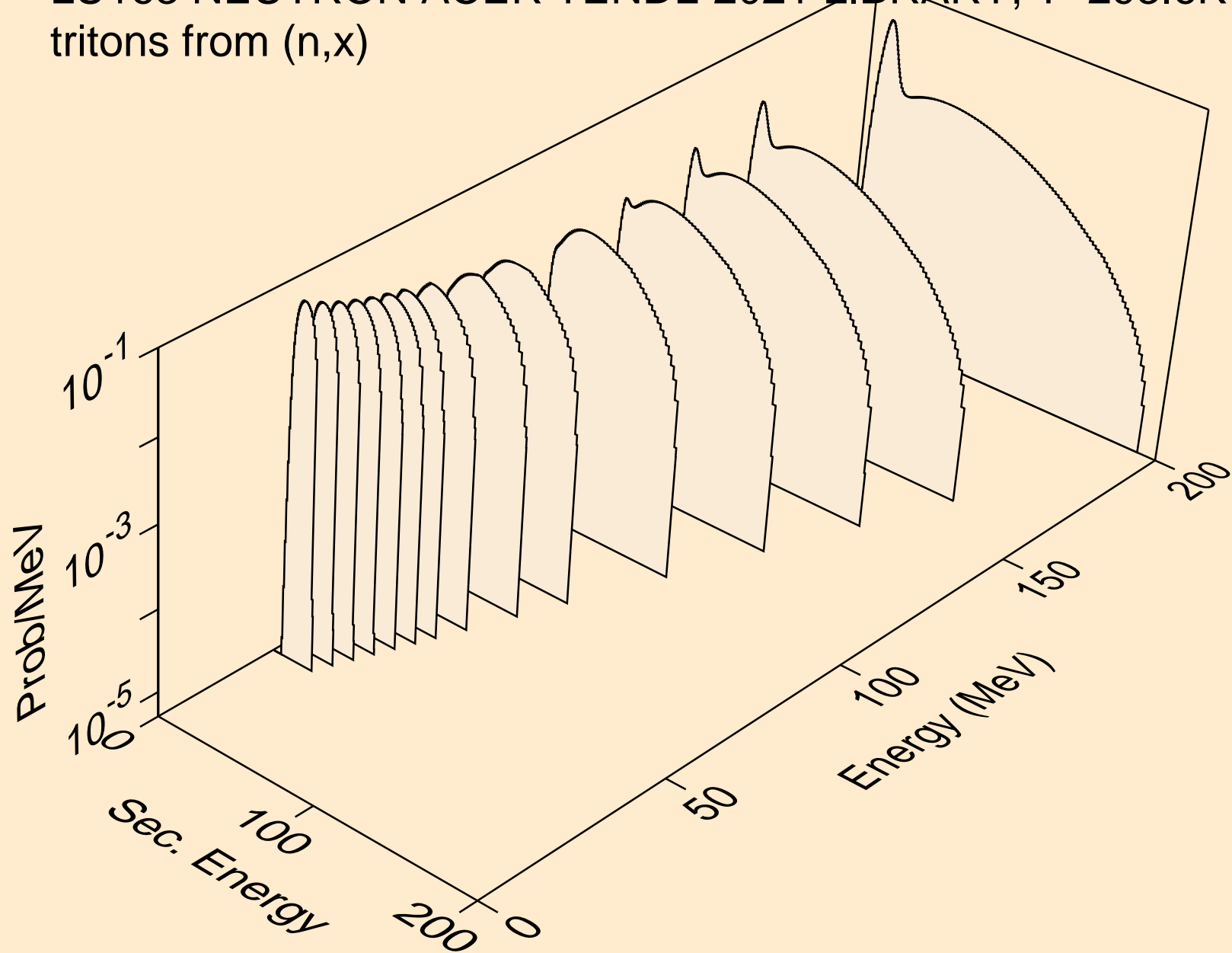
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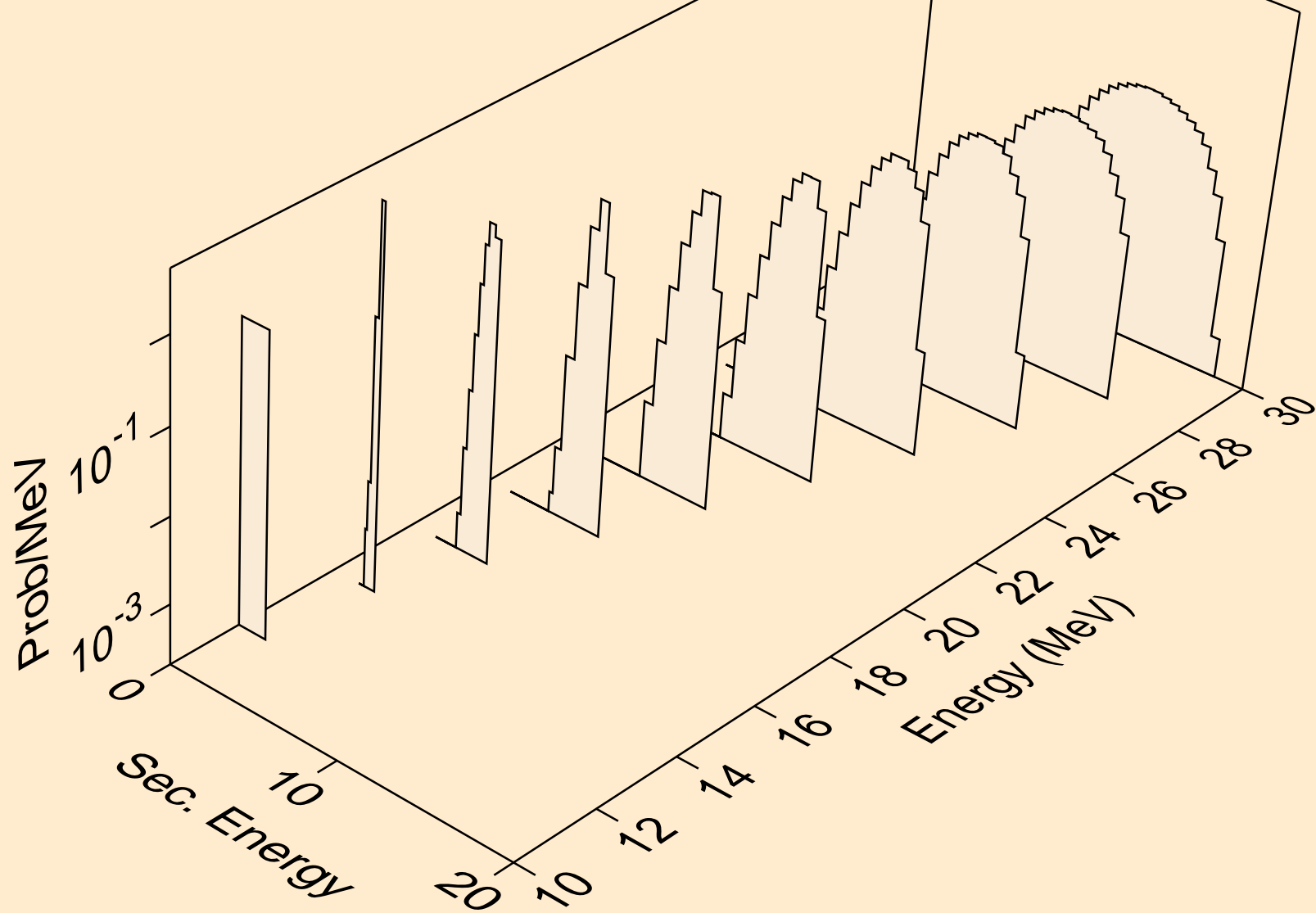
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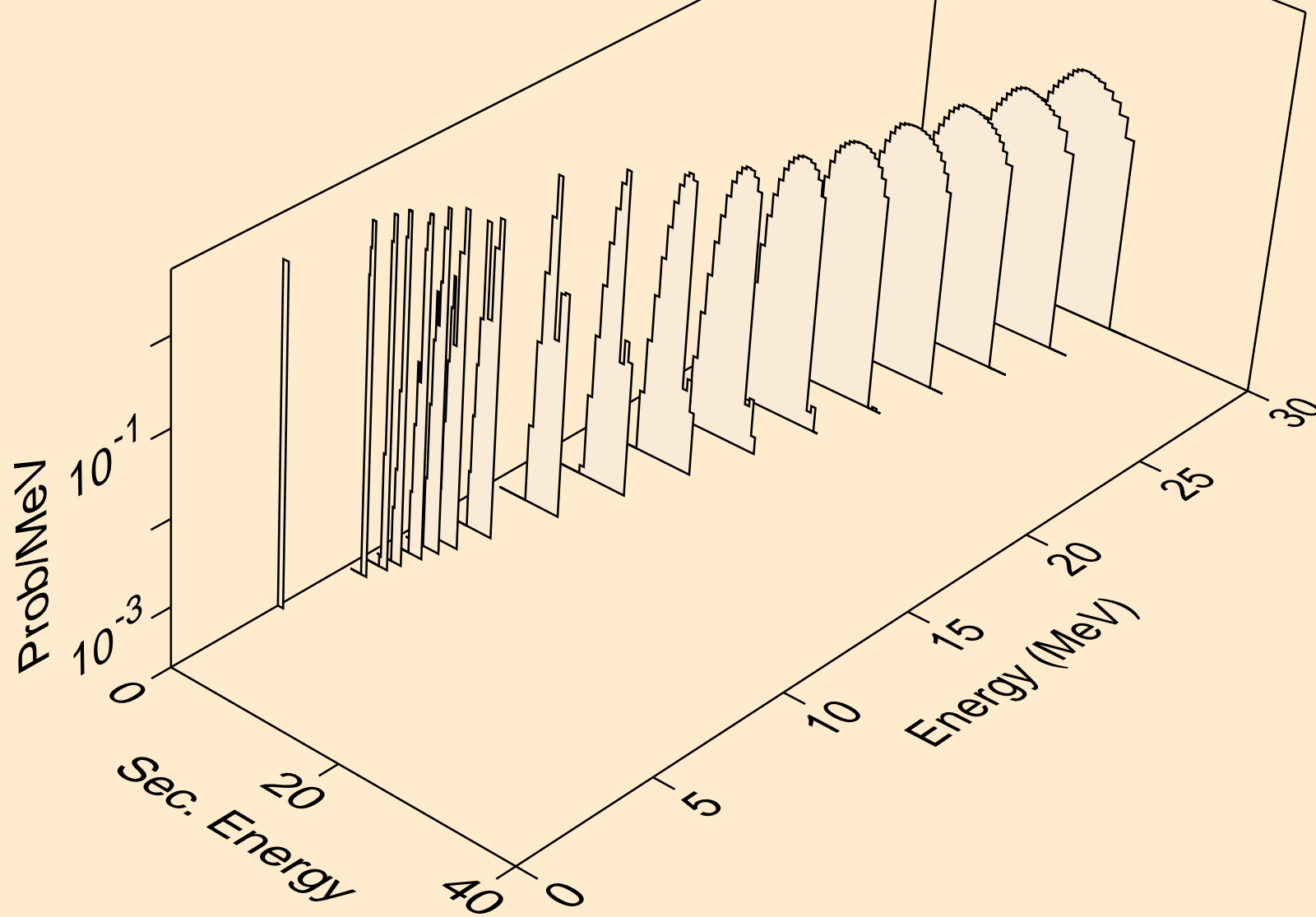
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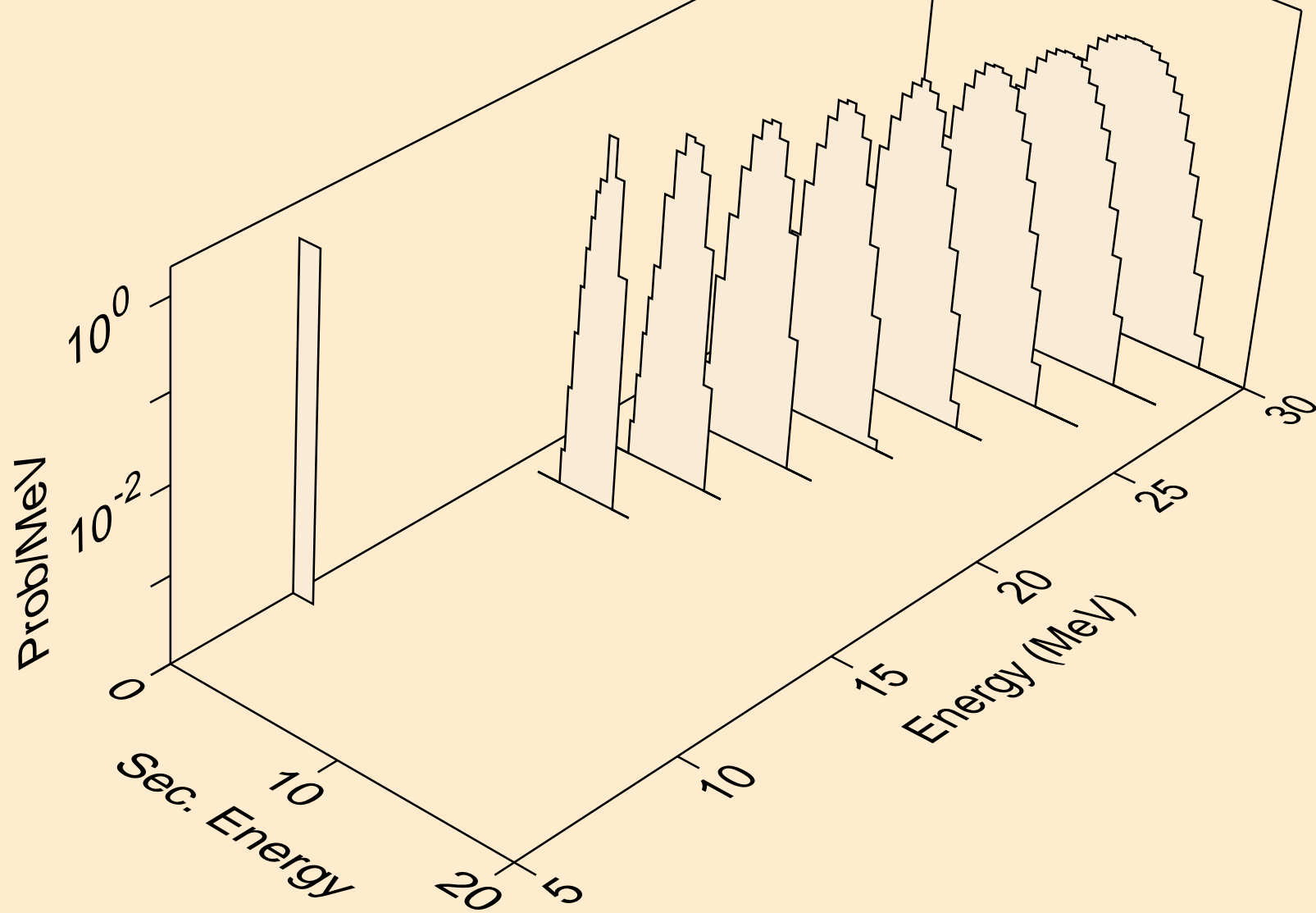
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tritons from (n,n\*)t



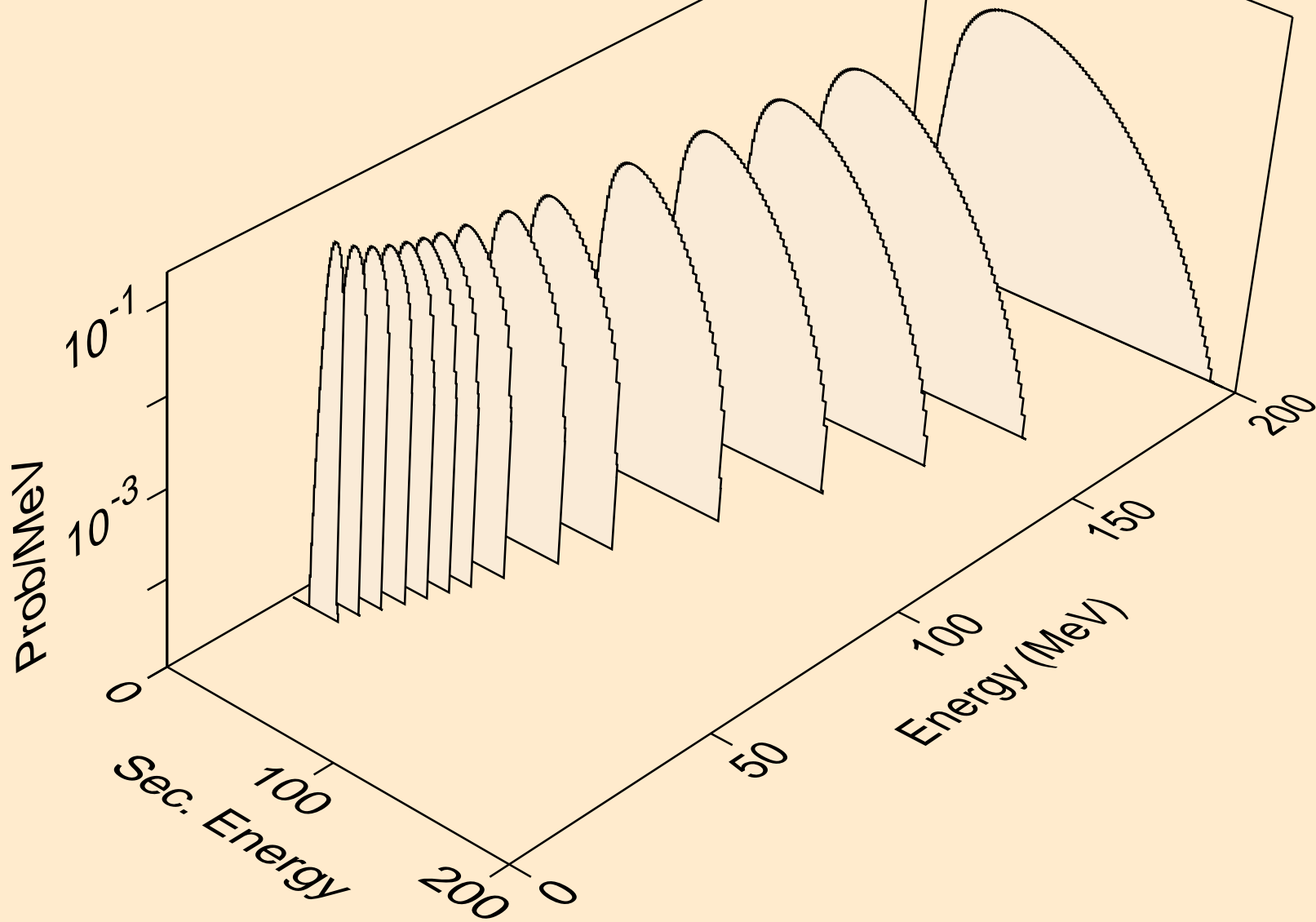
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



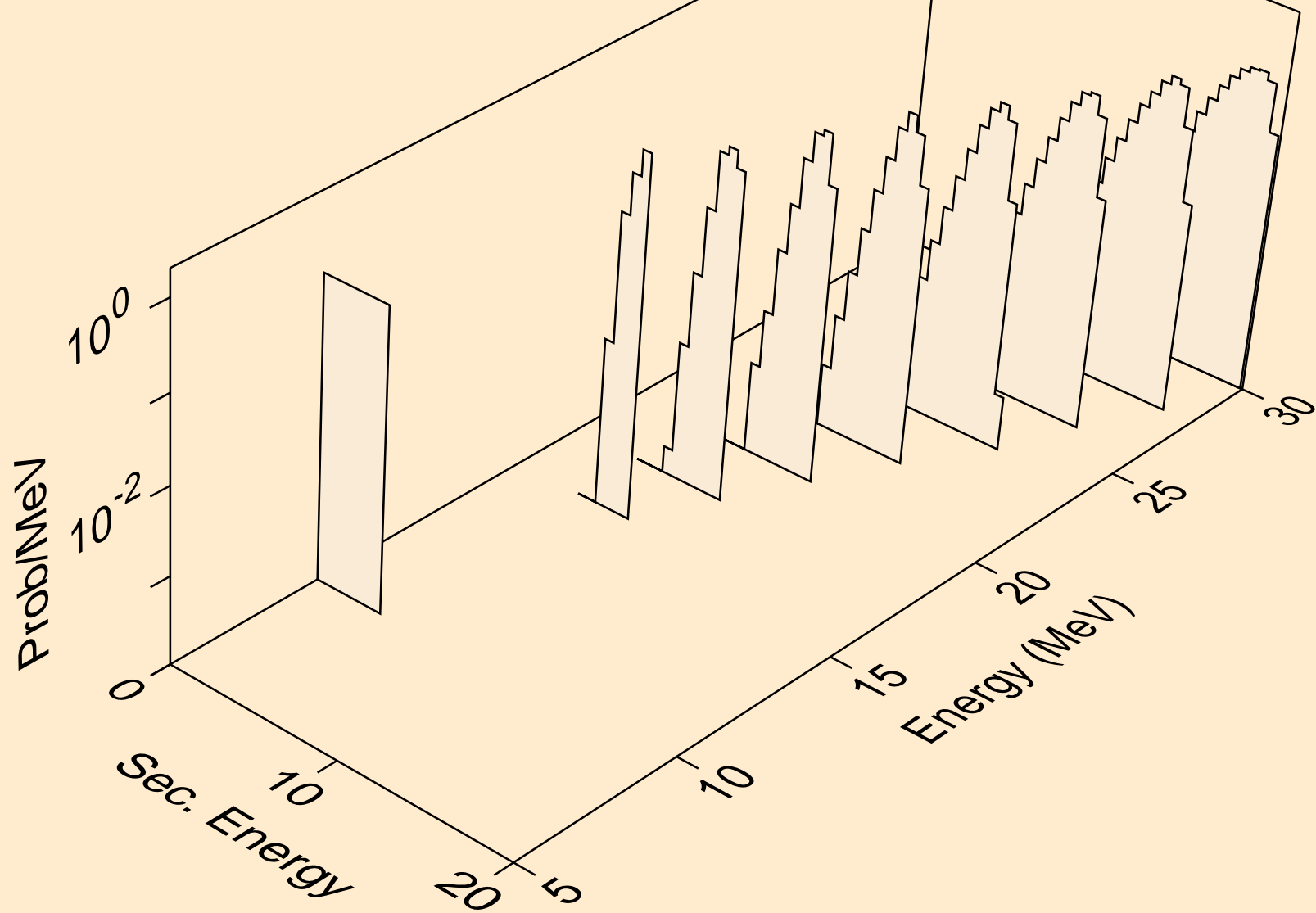
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)

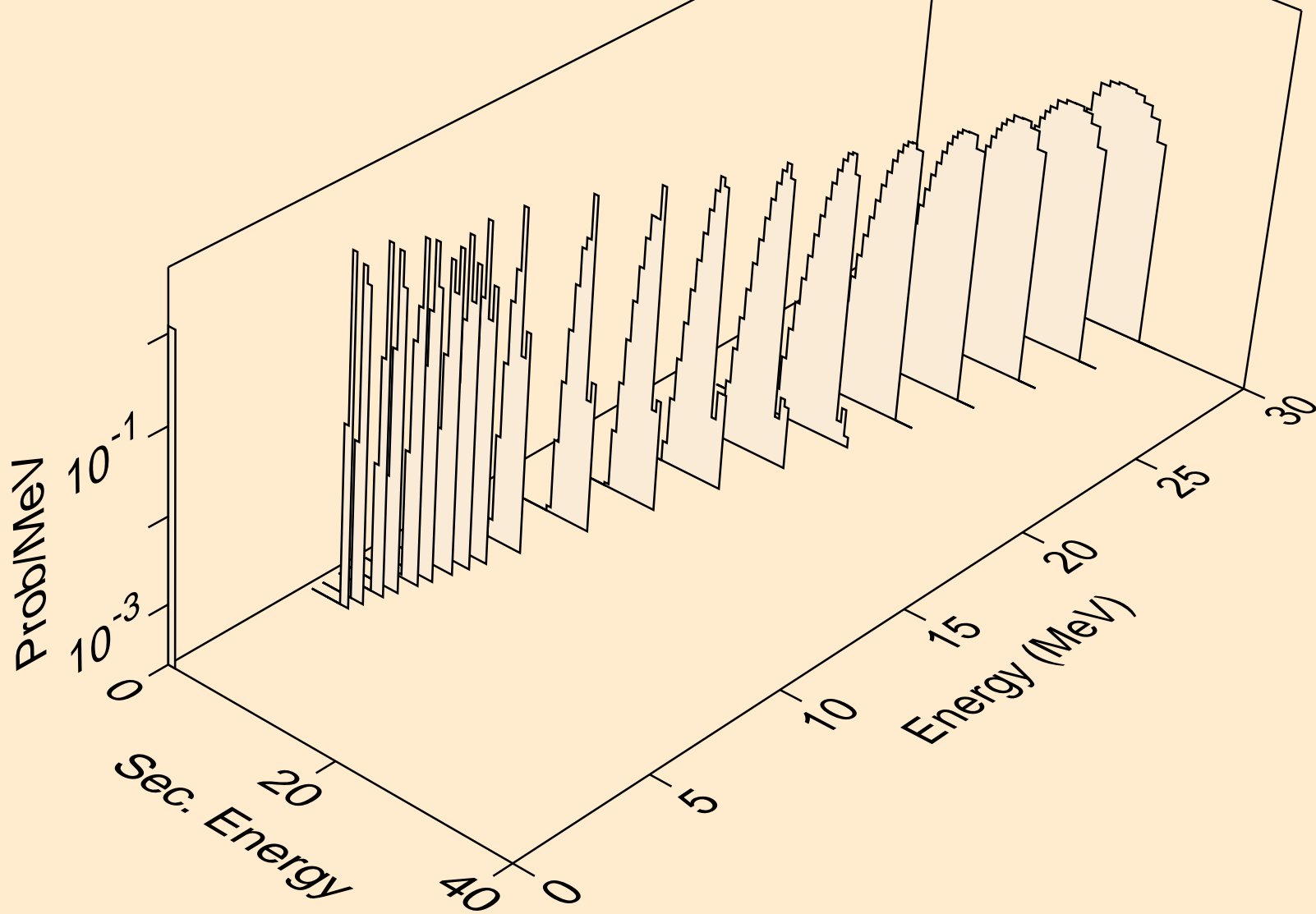


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

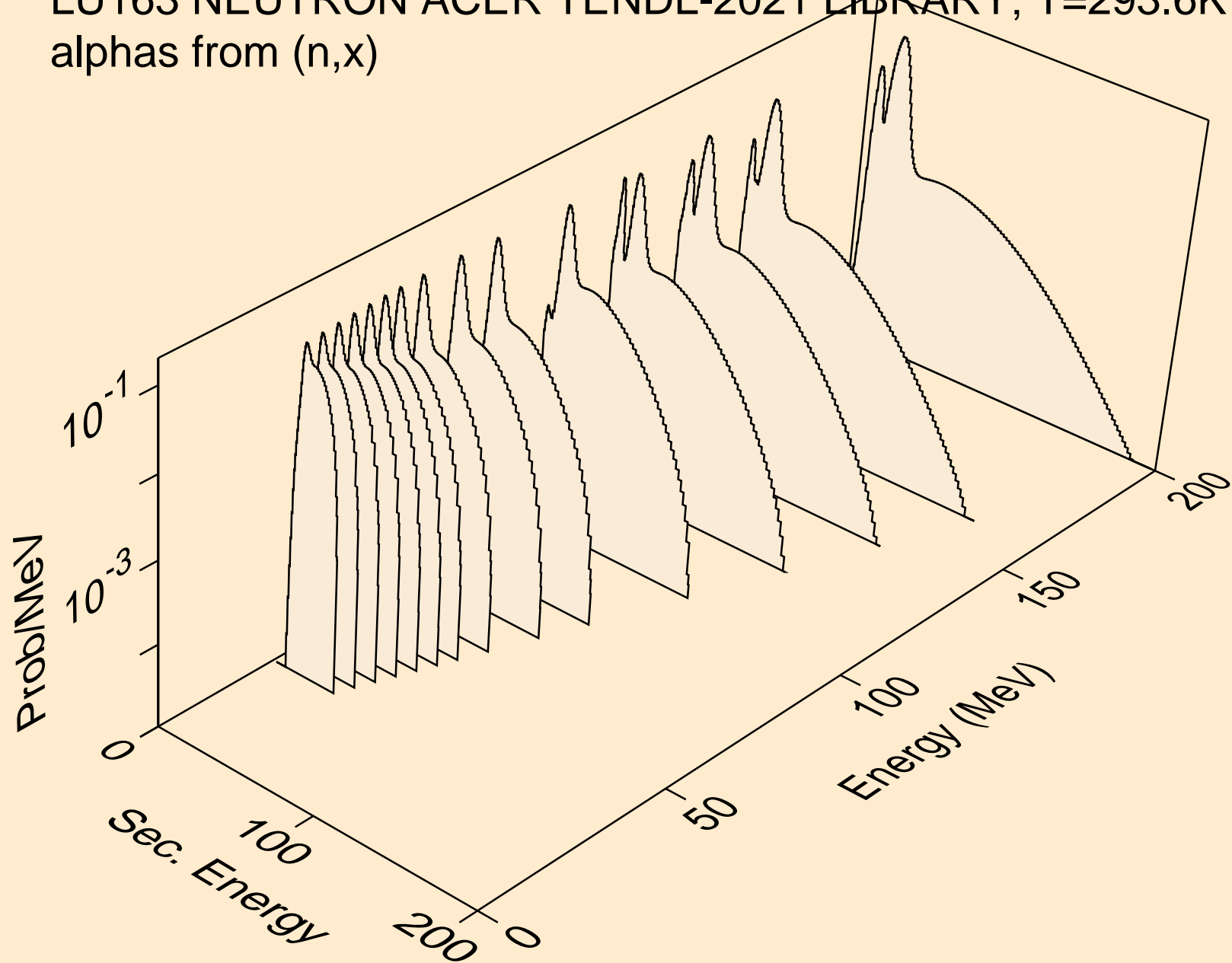




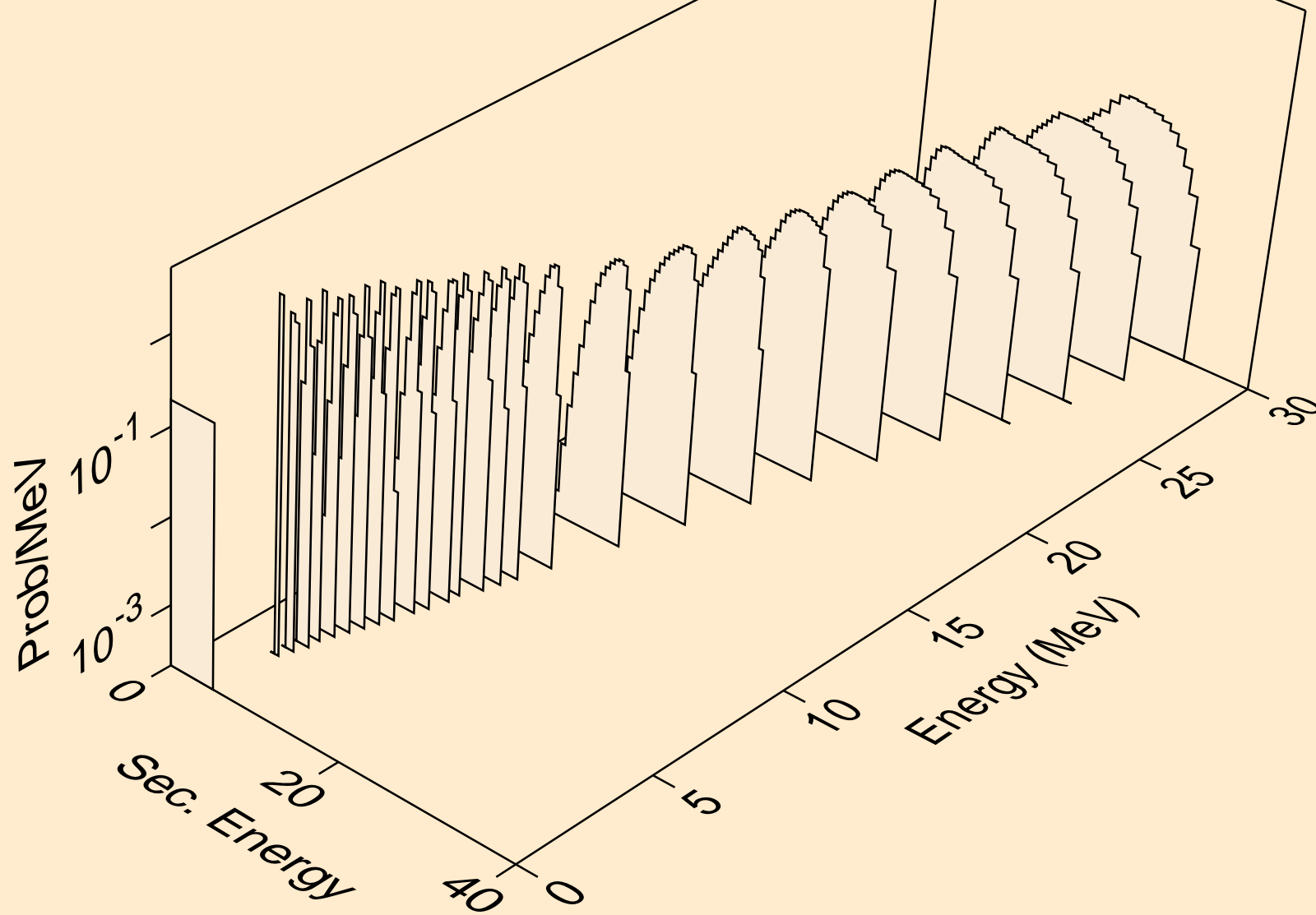
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)



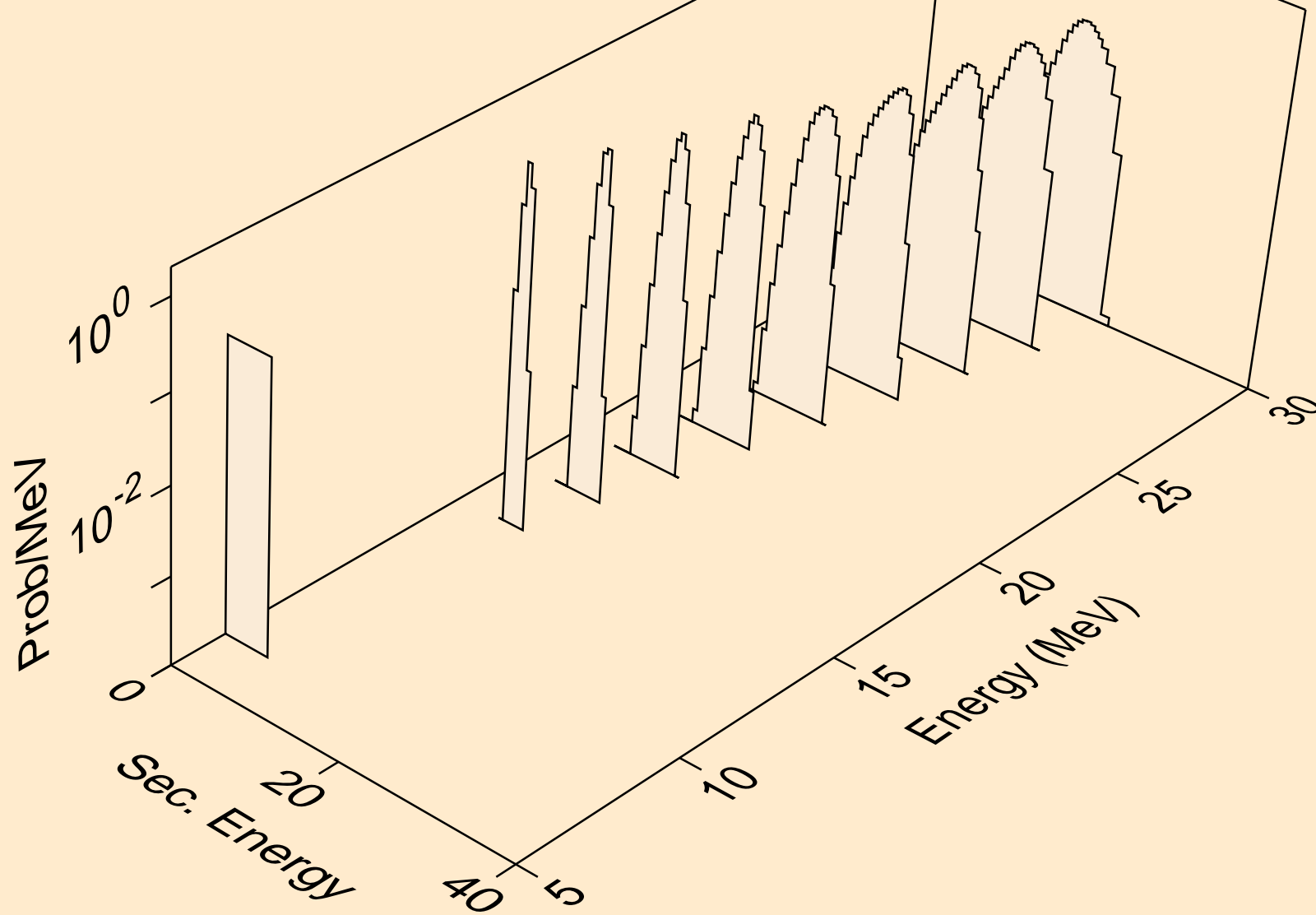
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



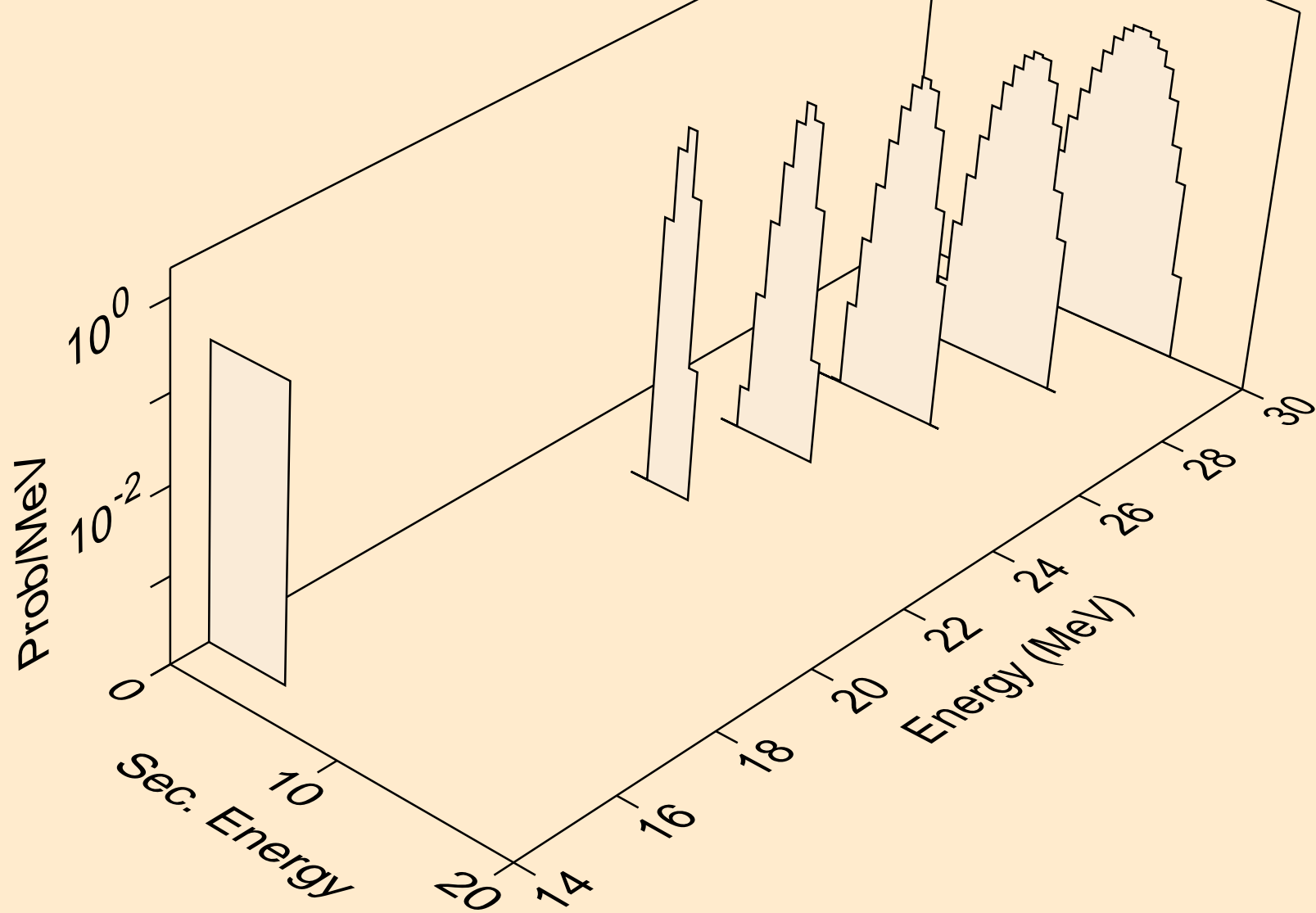
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



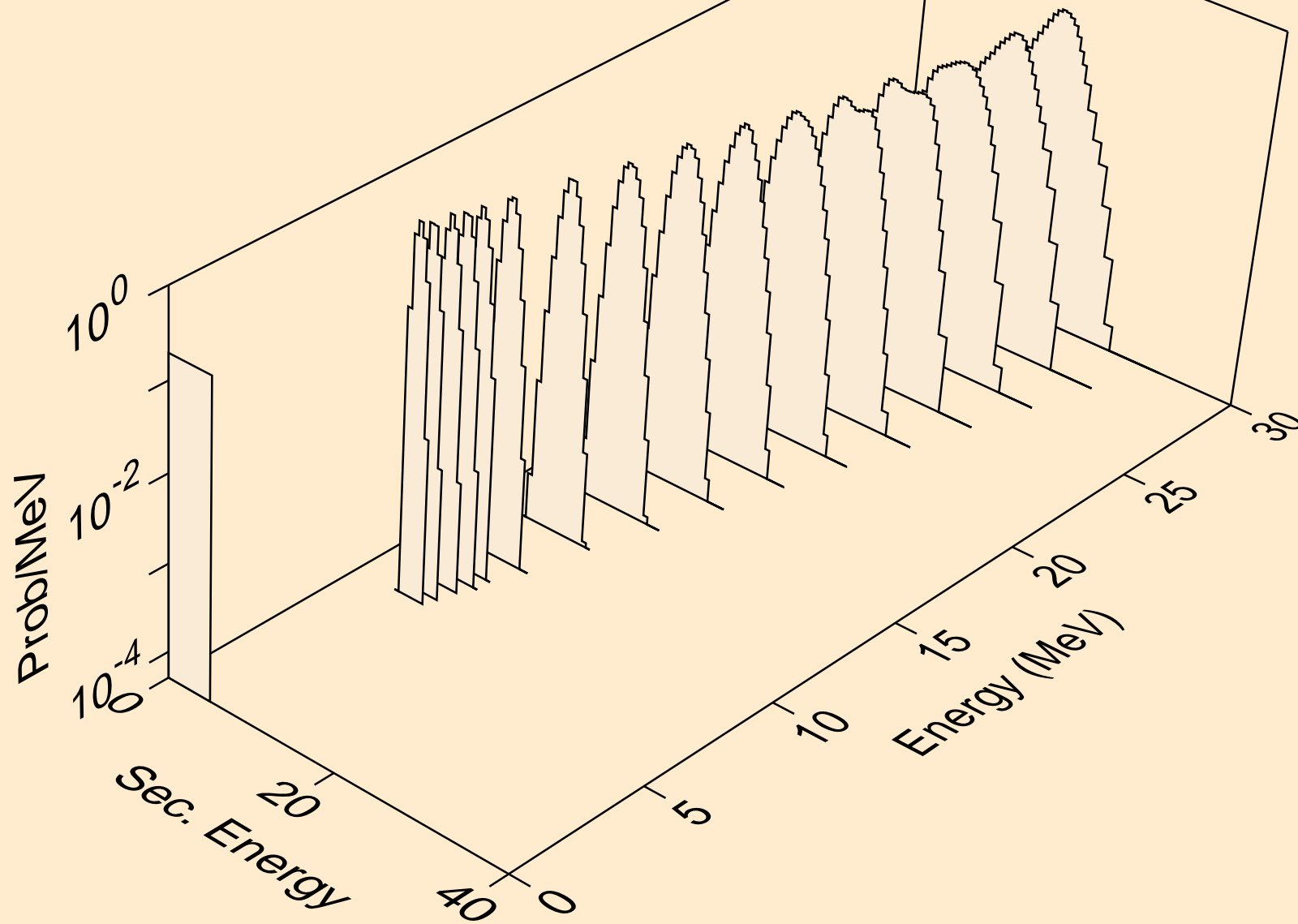
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



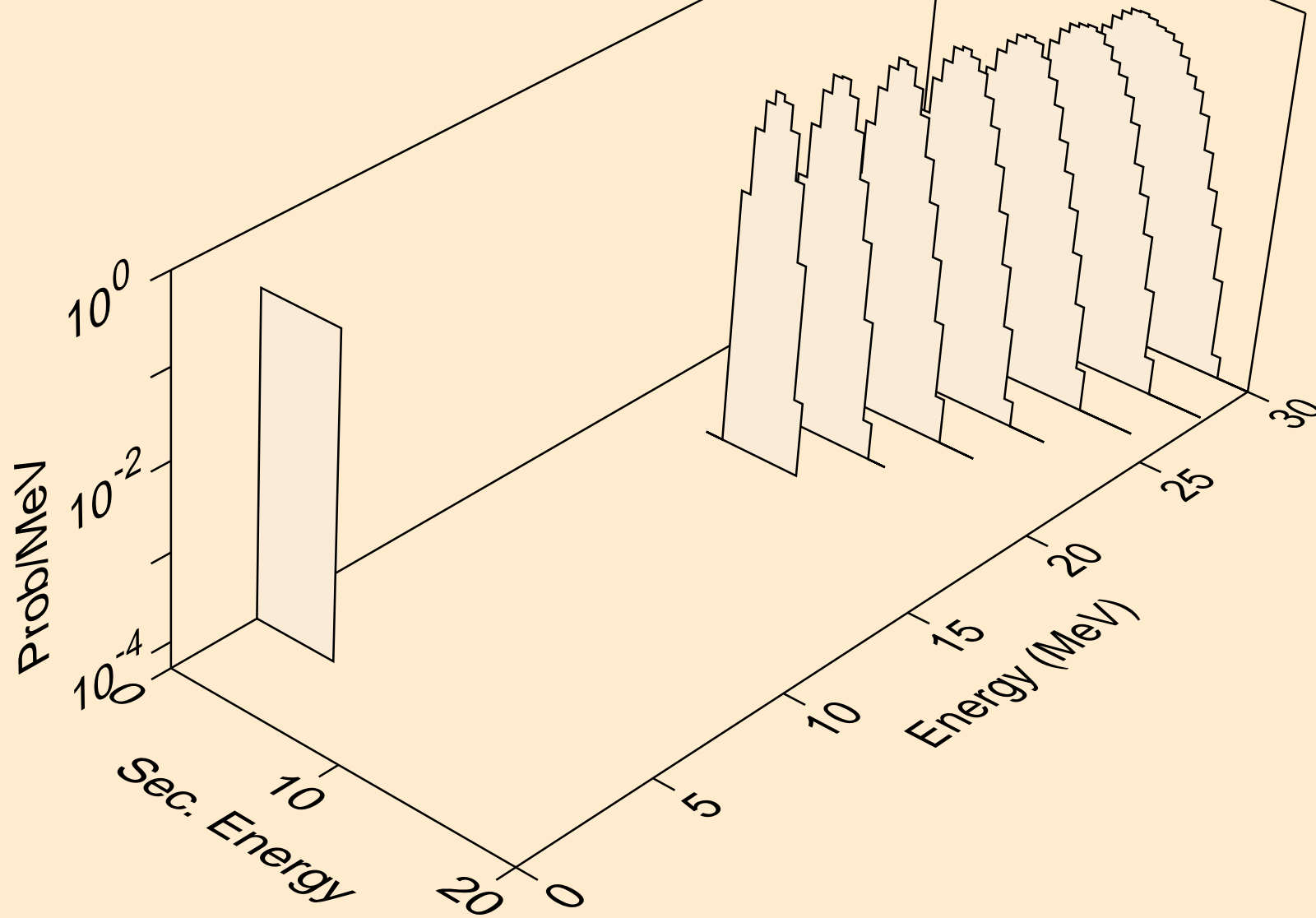
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



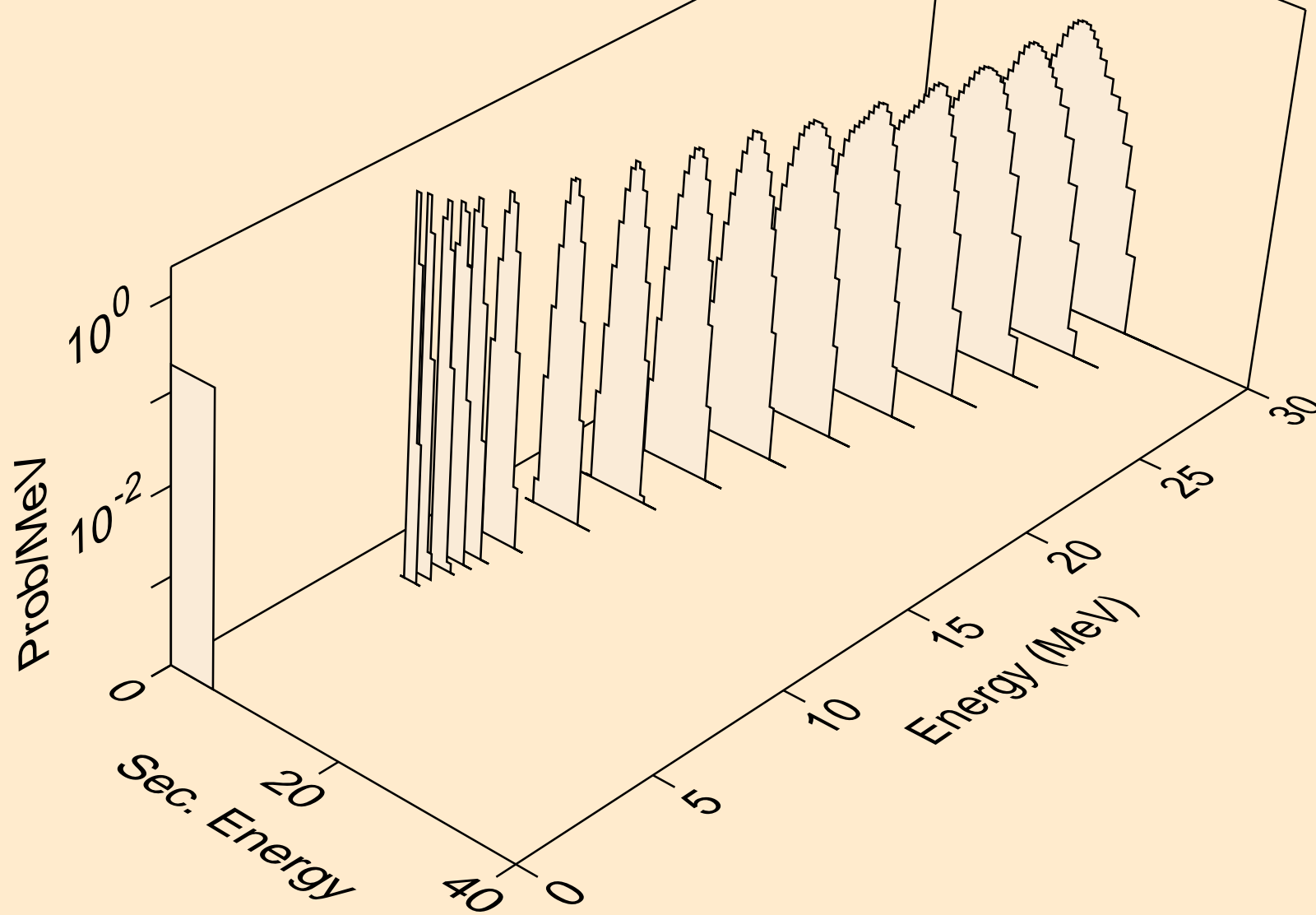
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)2a

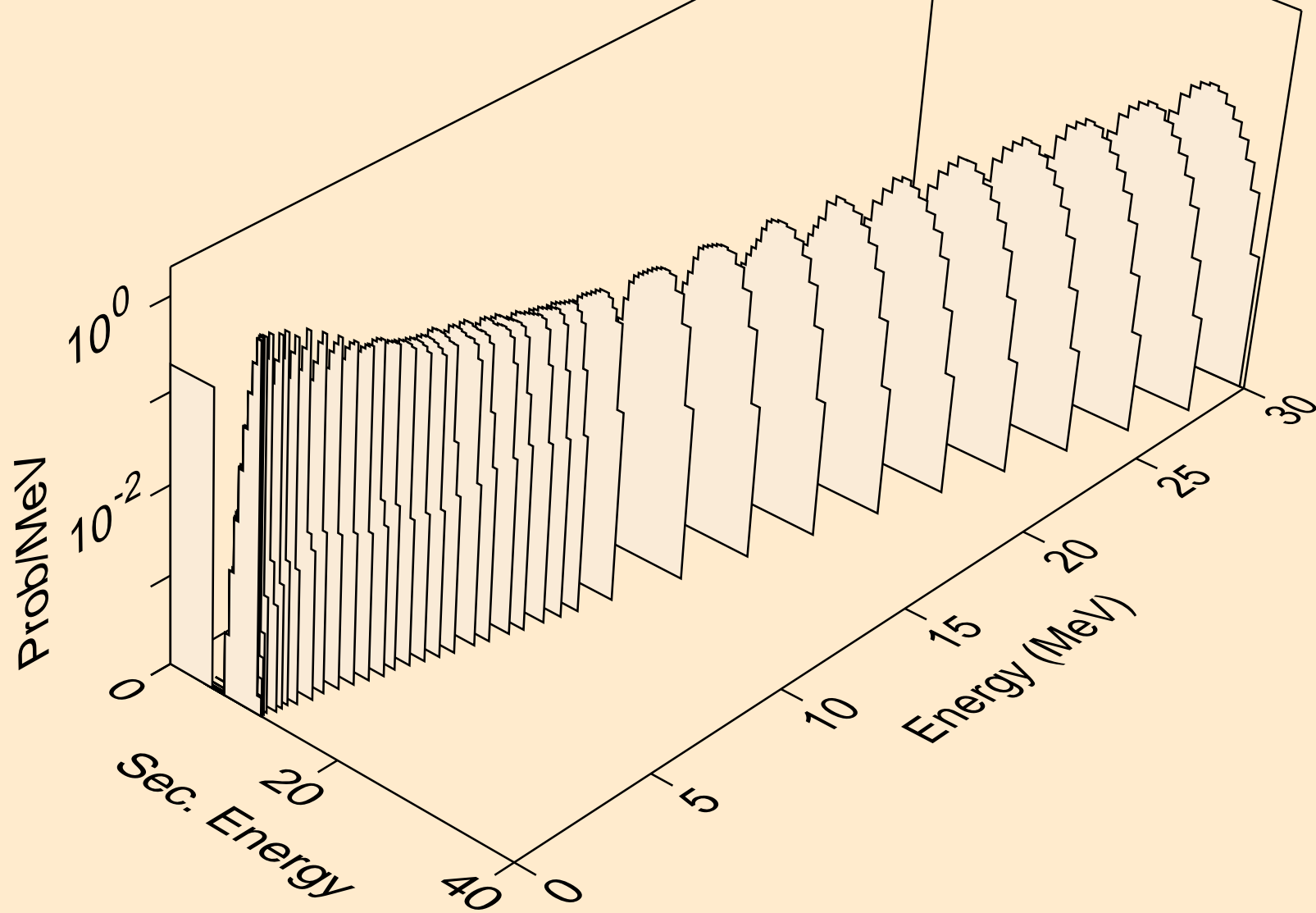


LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)

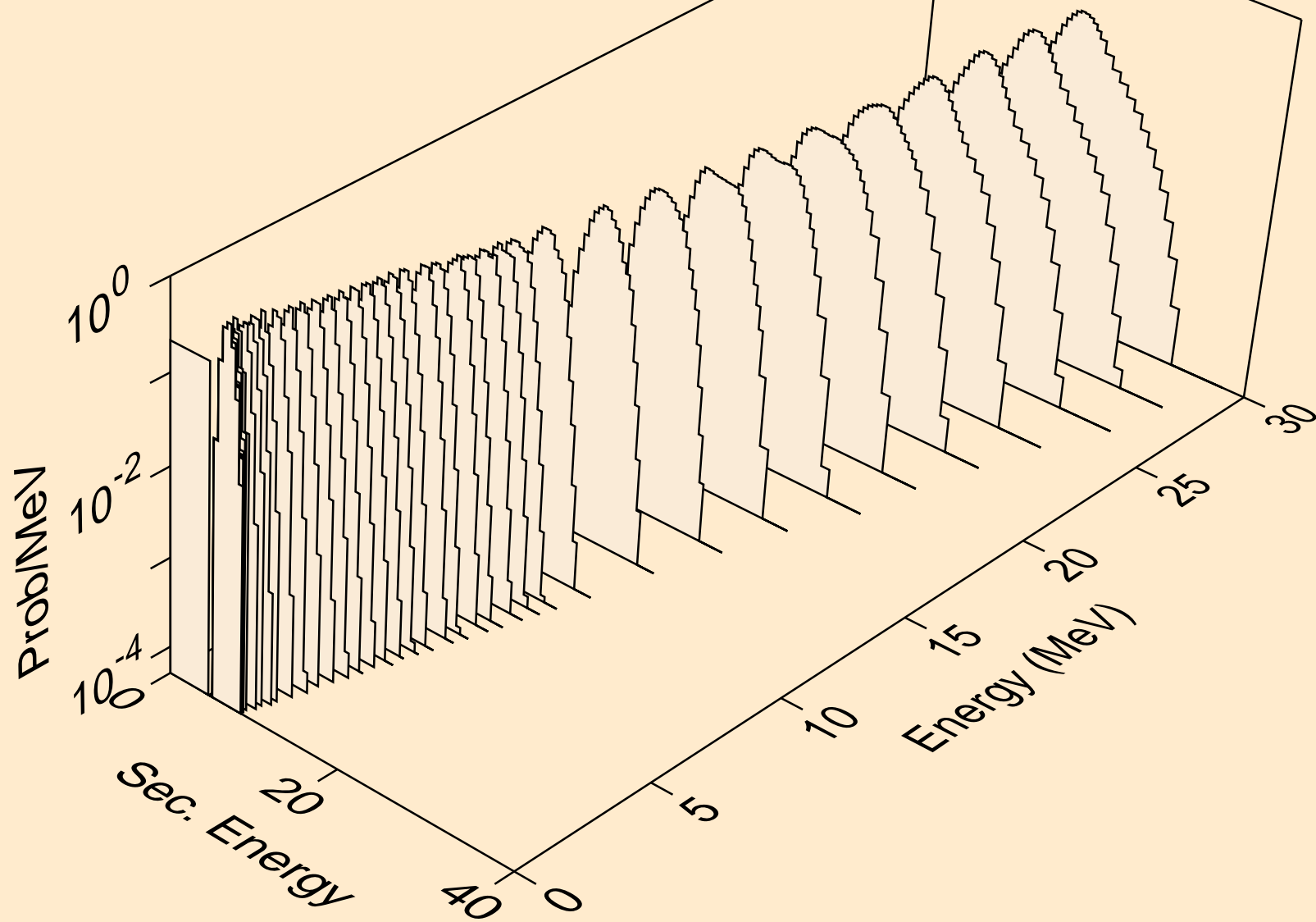




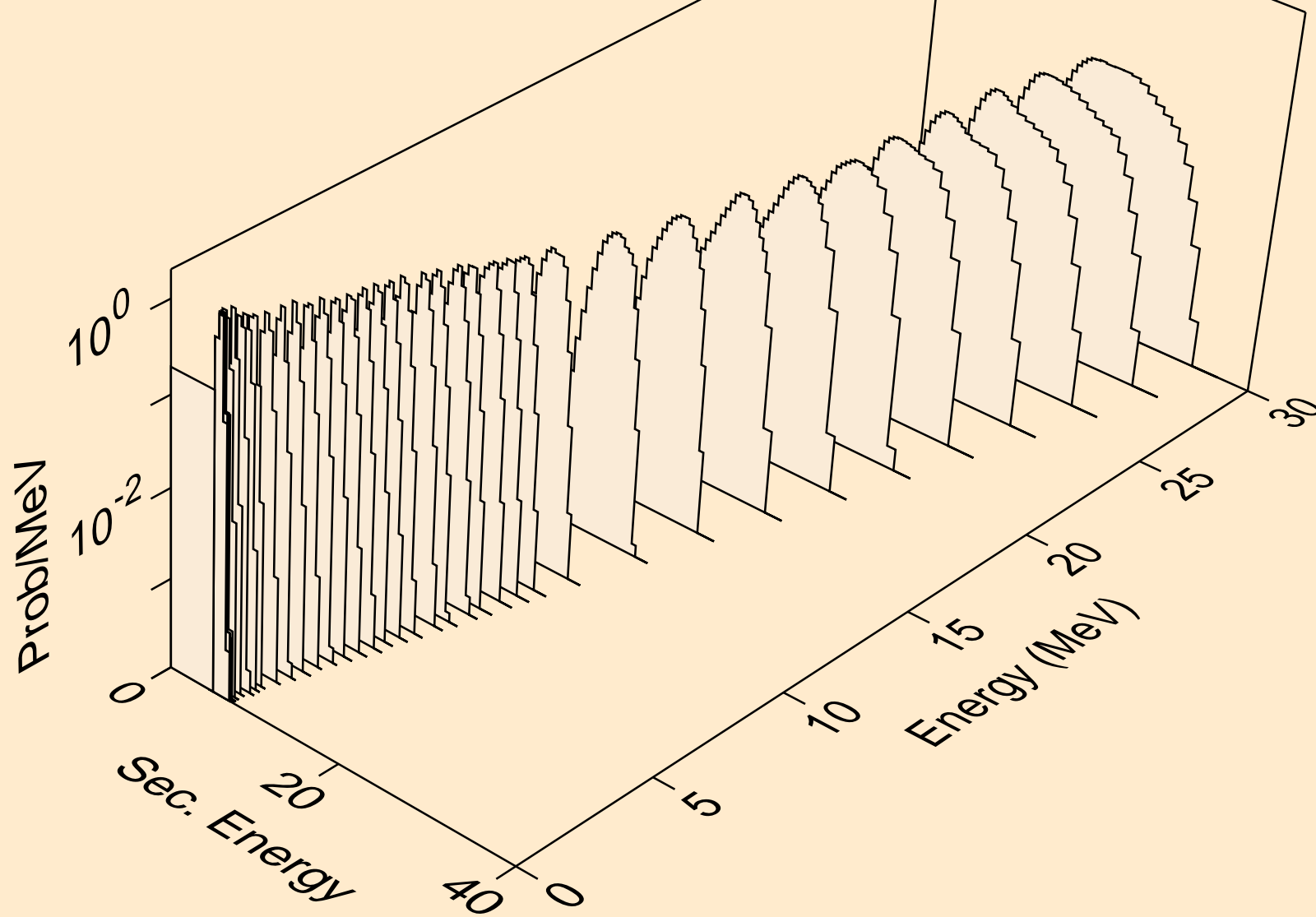
LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



LU163 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

