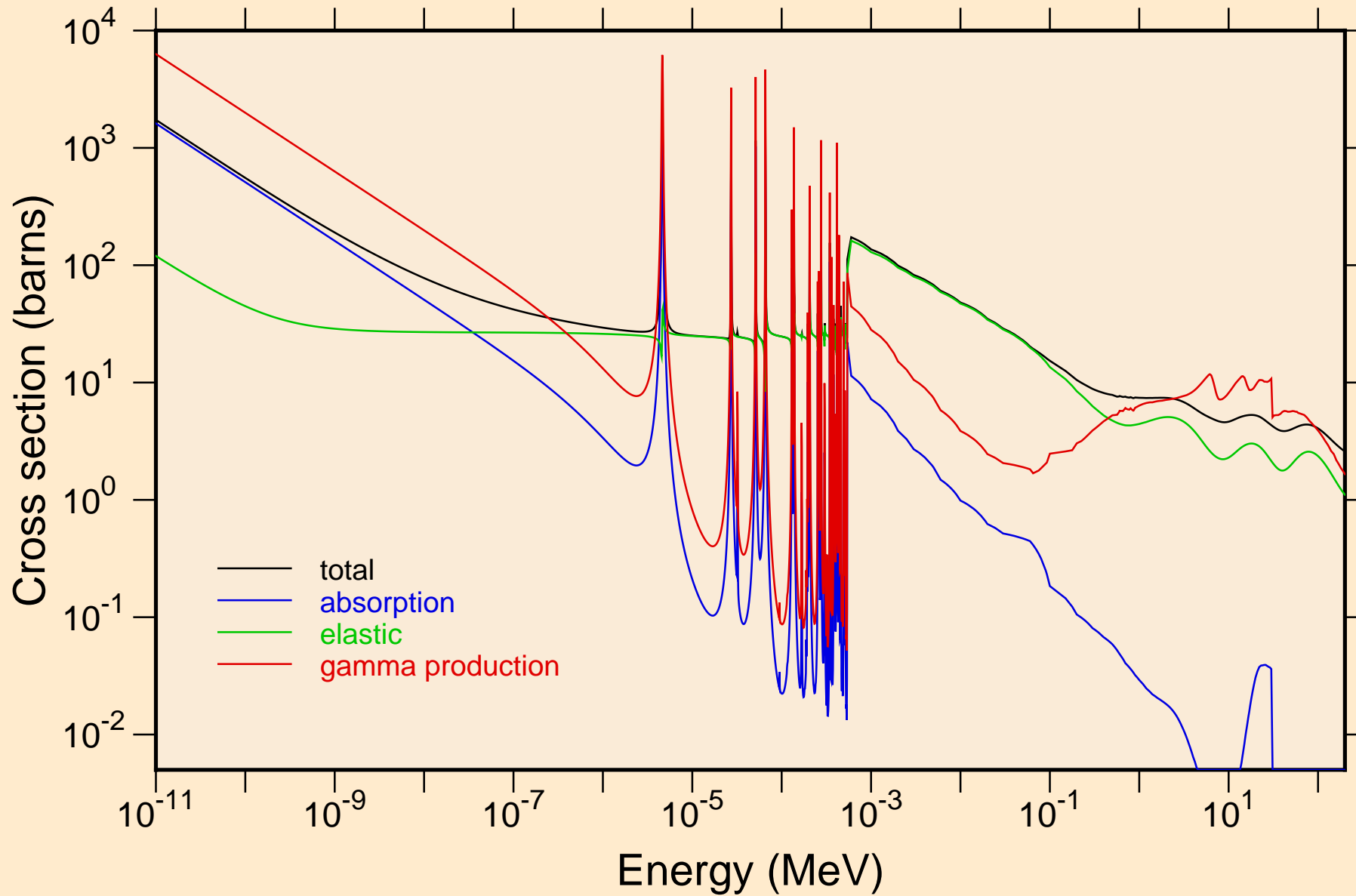
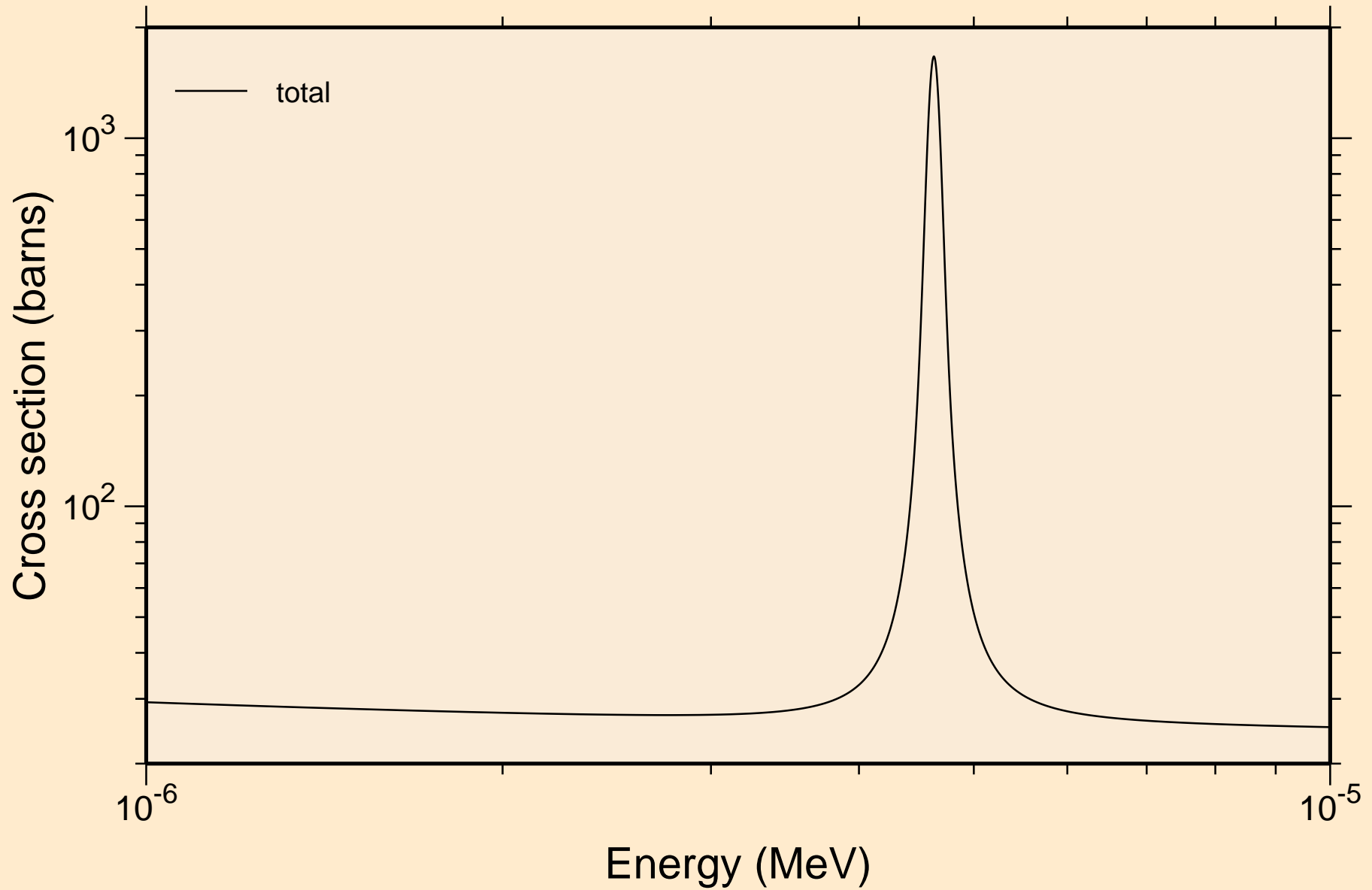


# ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

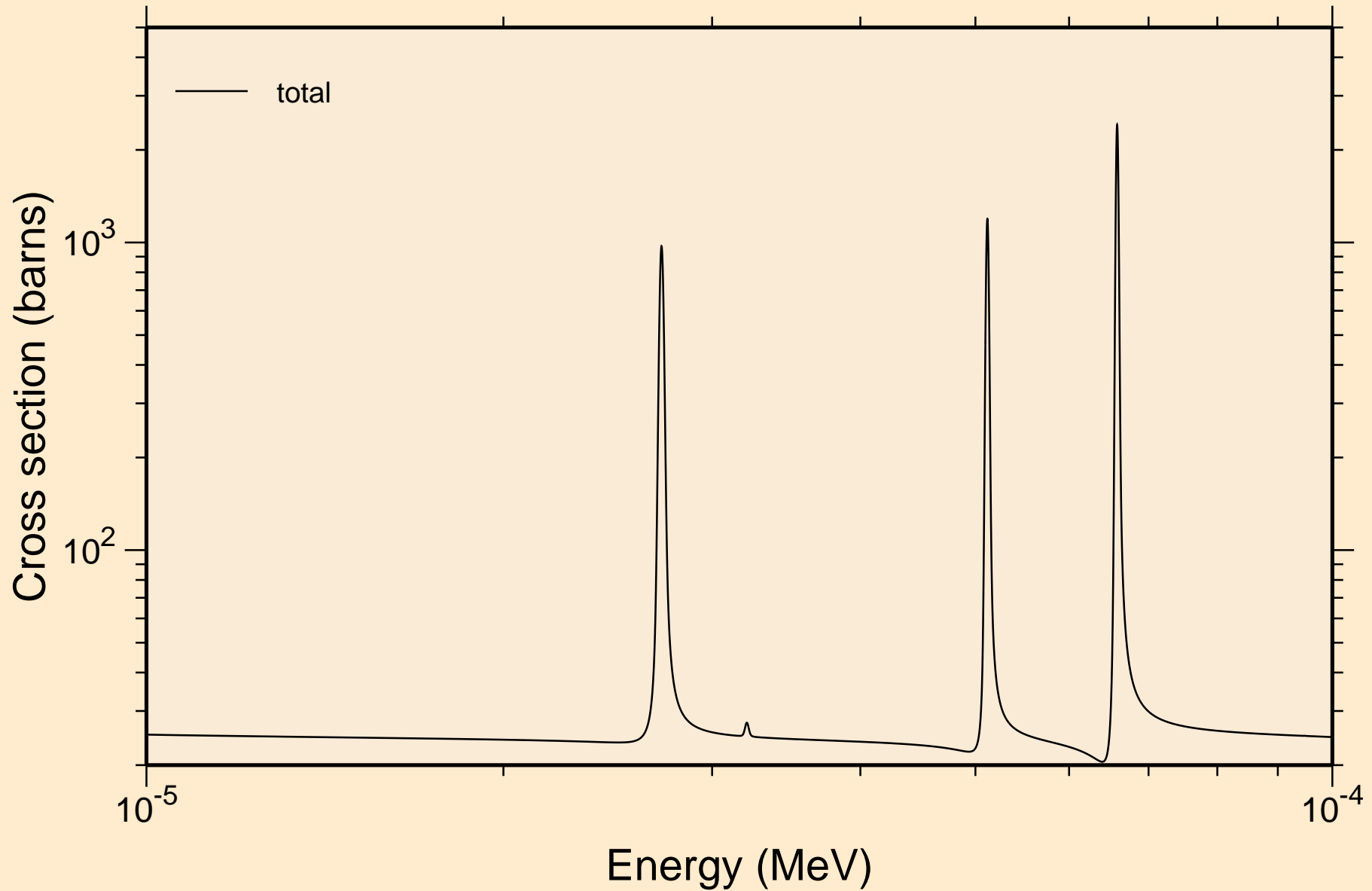
## Principal cross sections



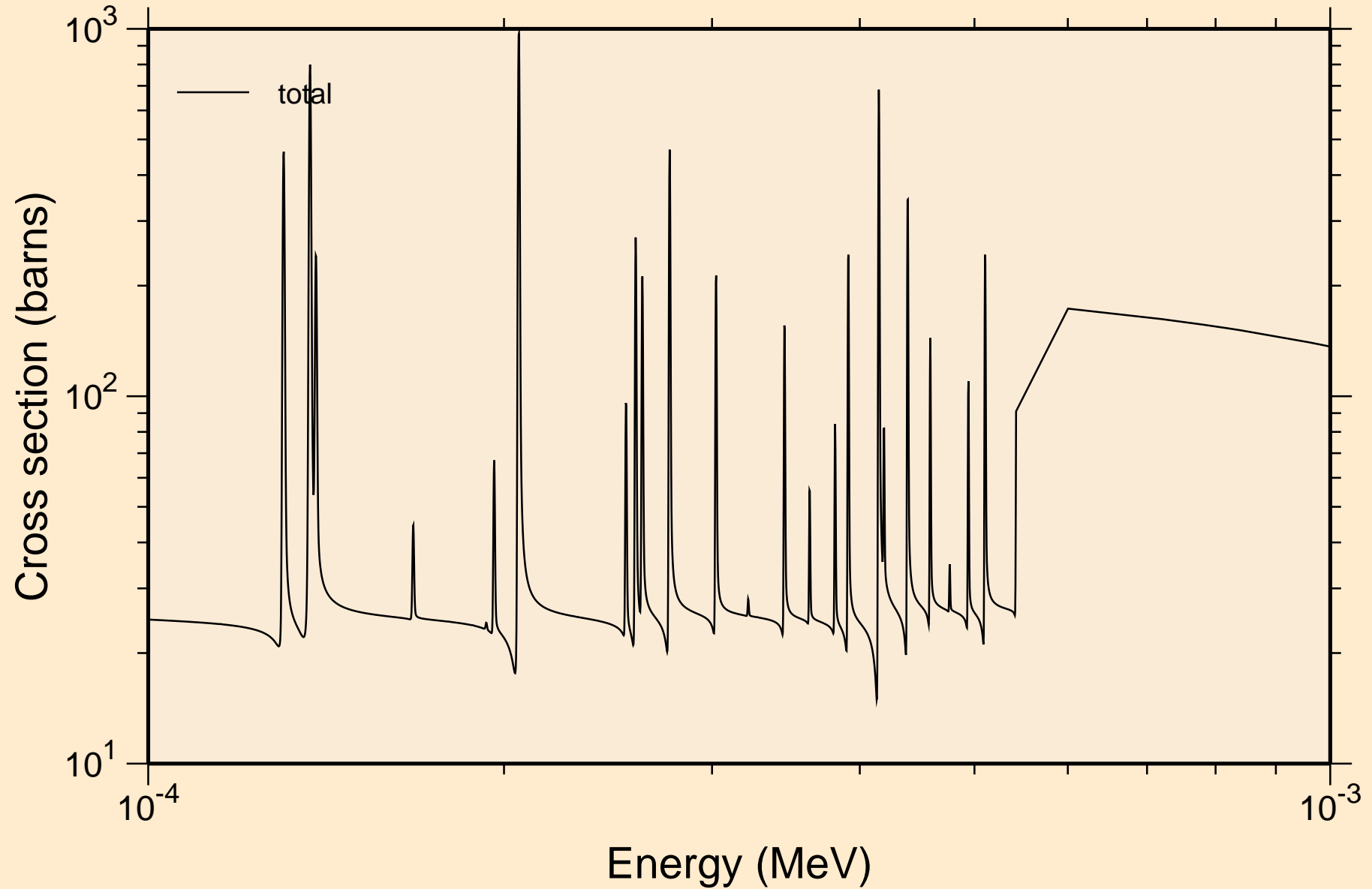
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



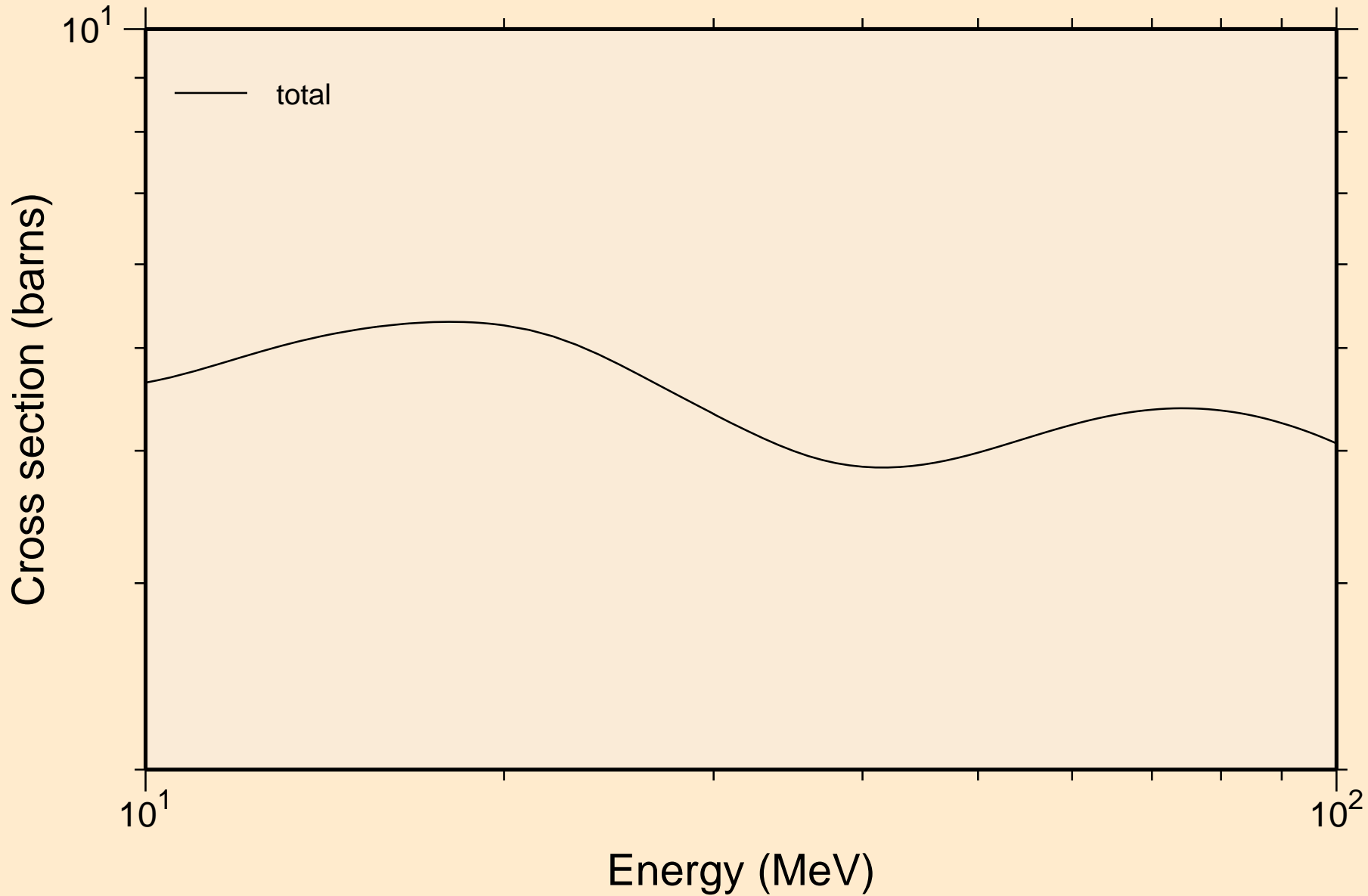
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



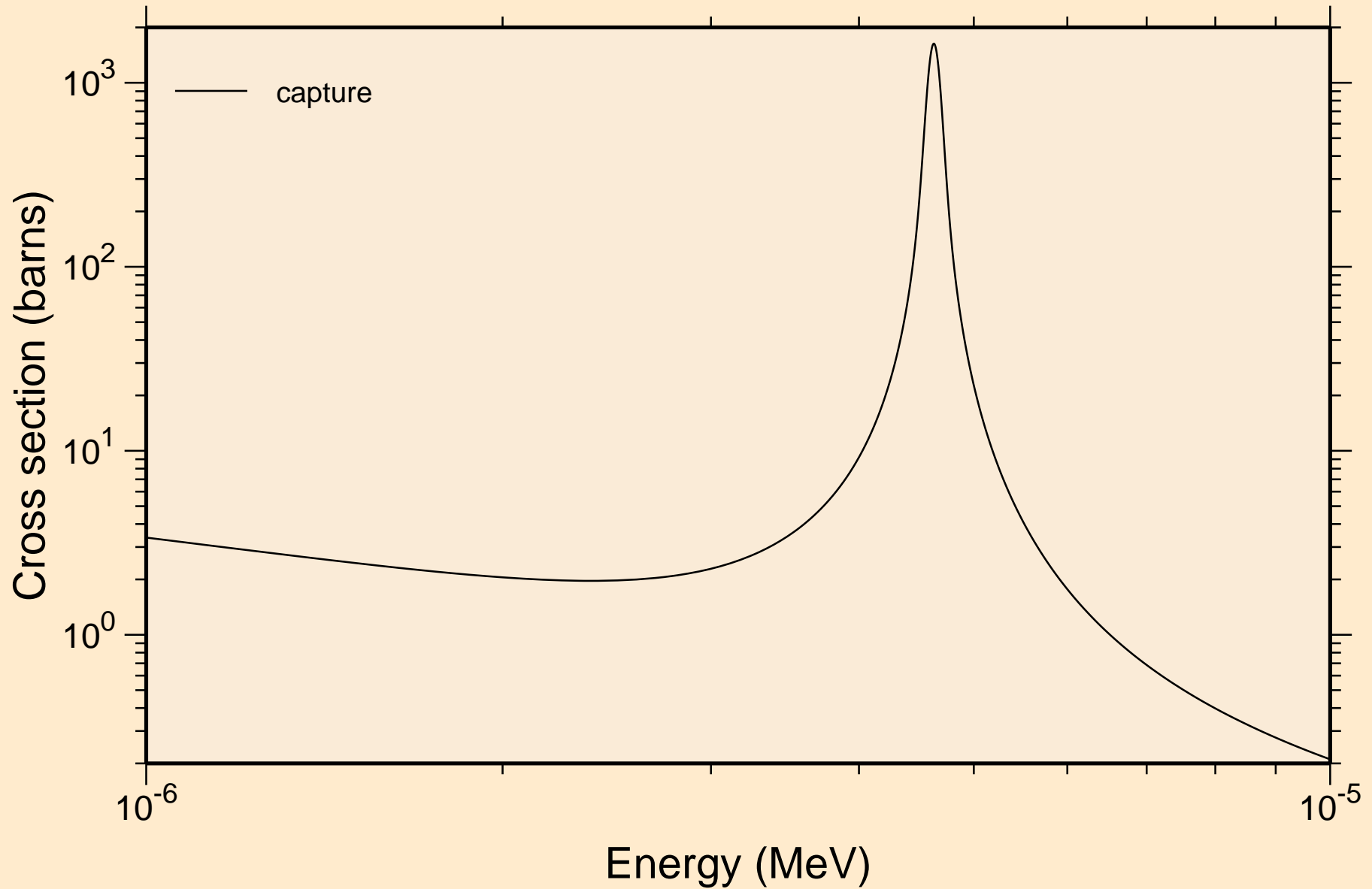
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



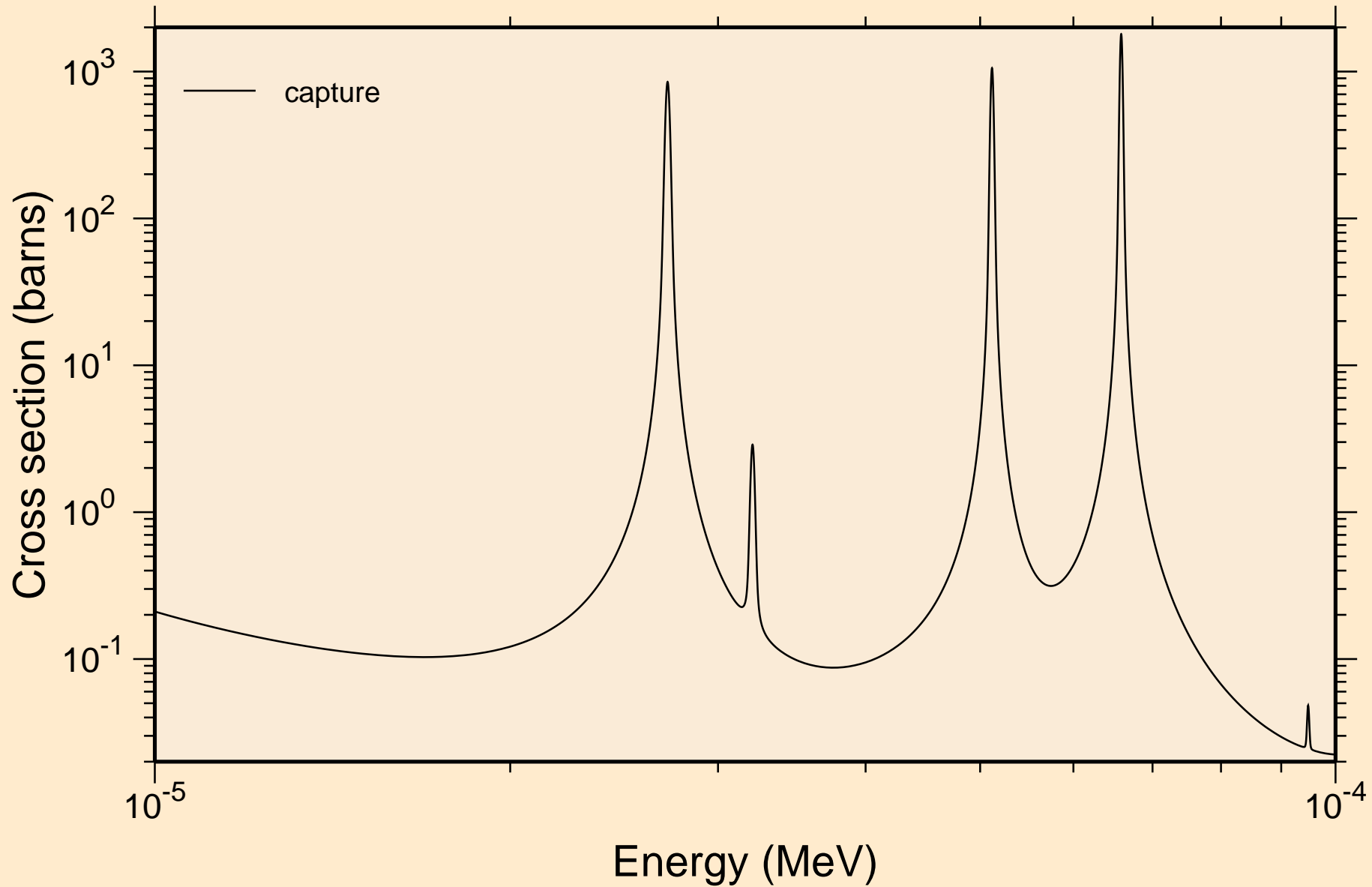
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



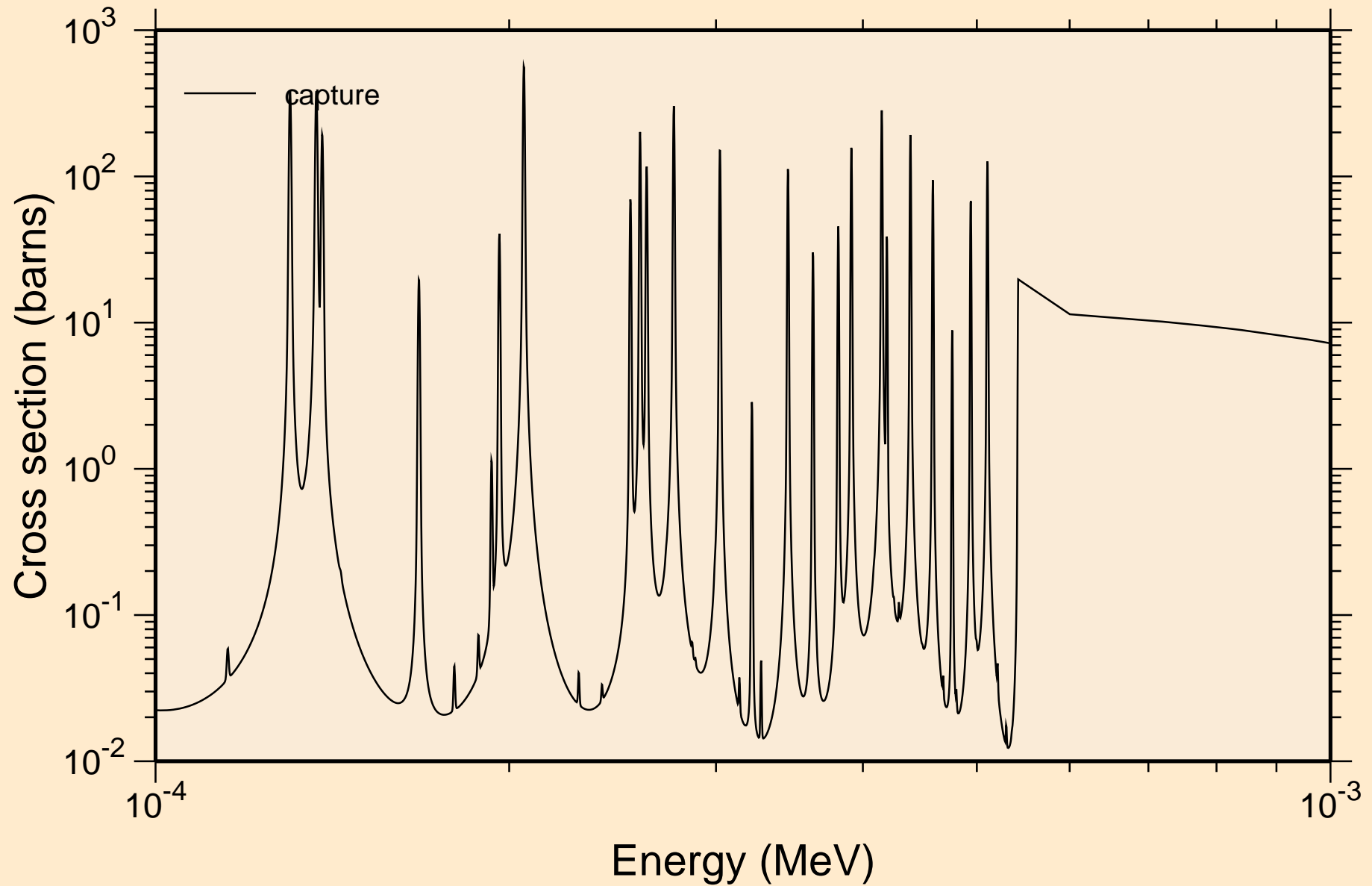
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

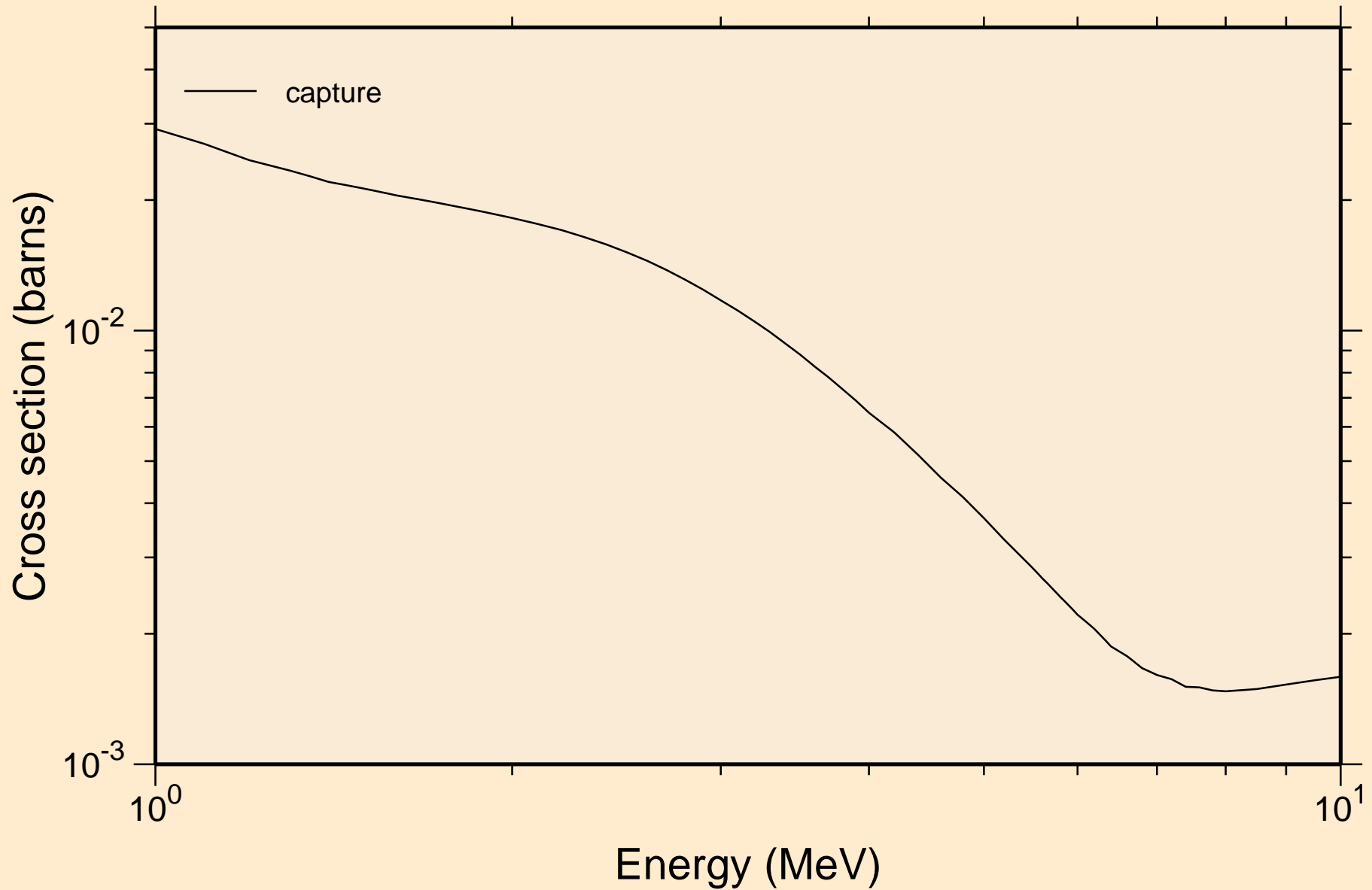


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

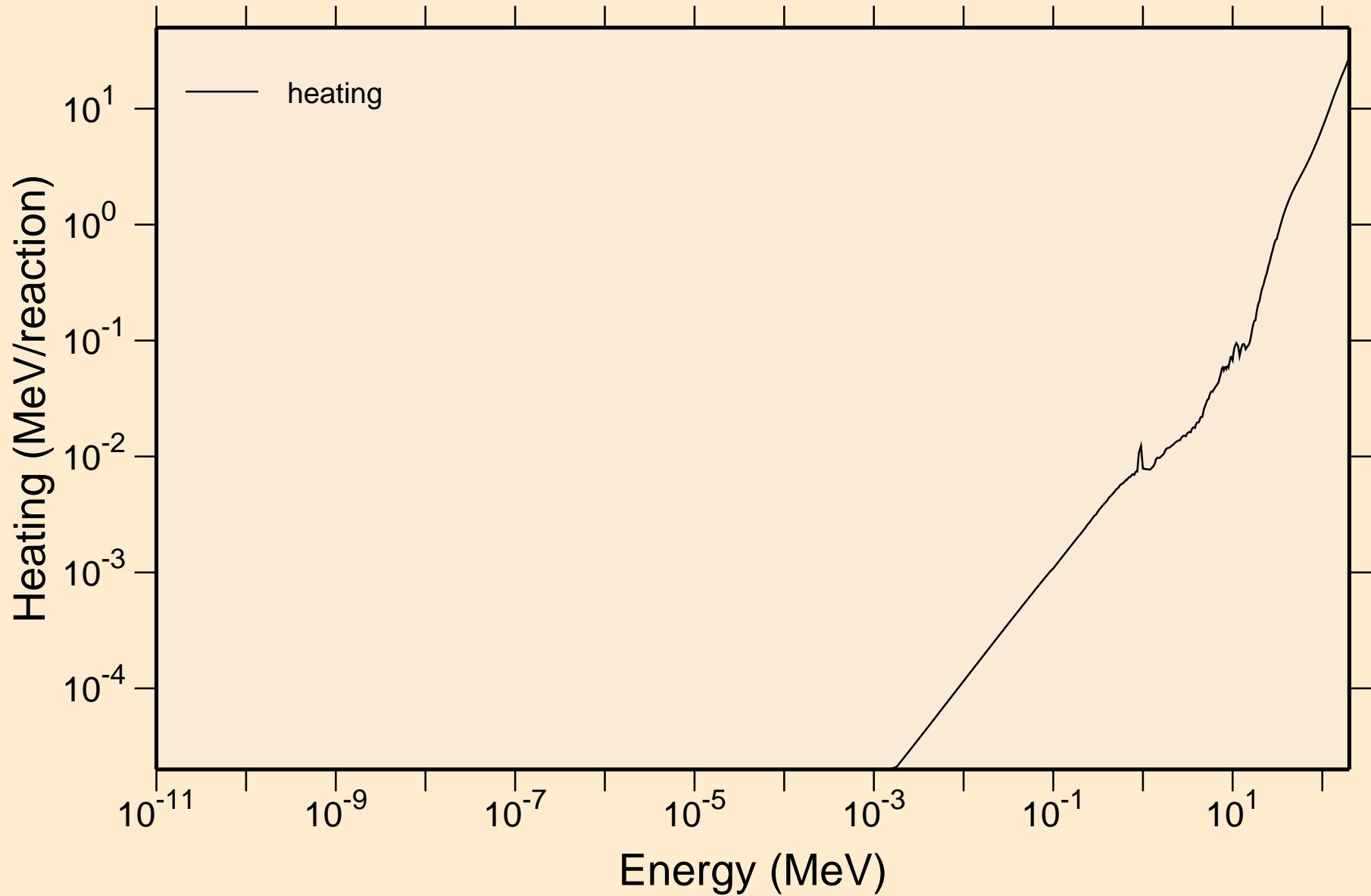




ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

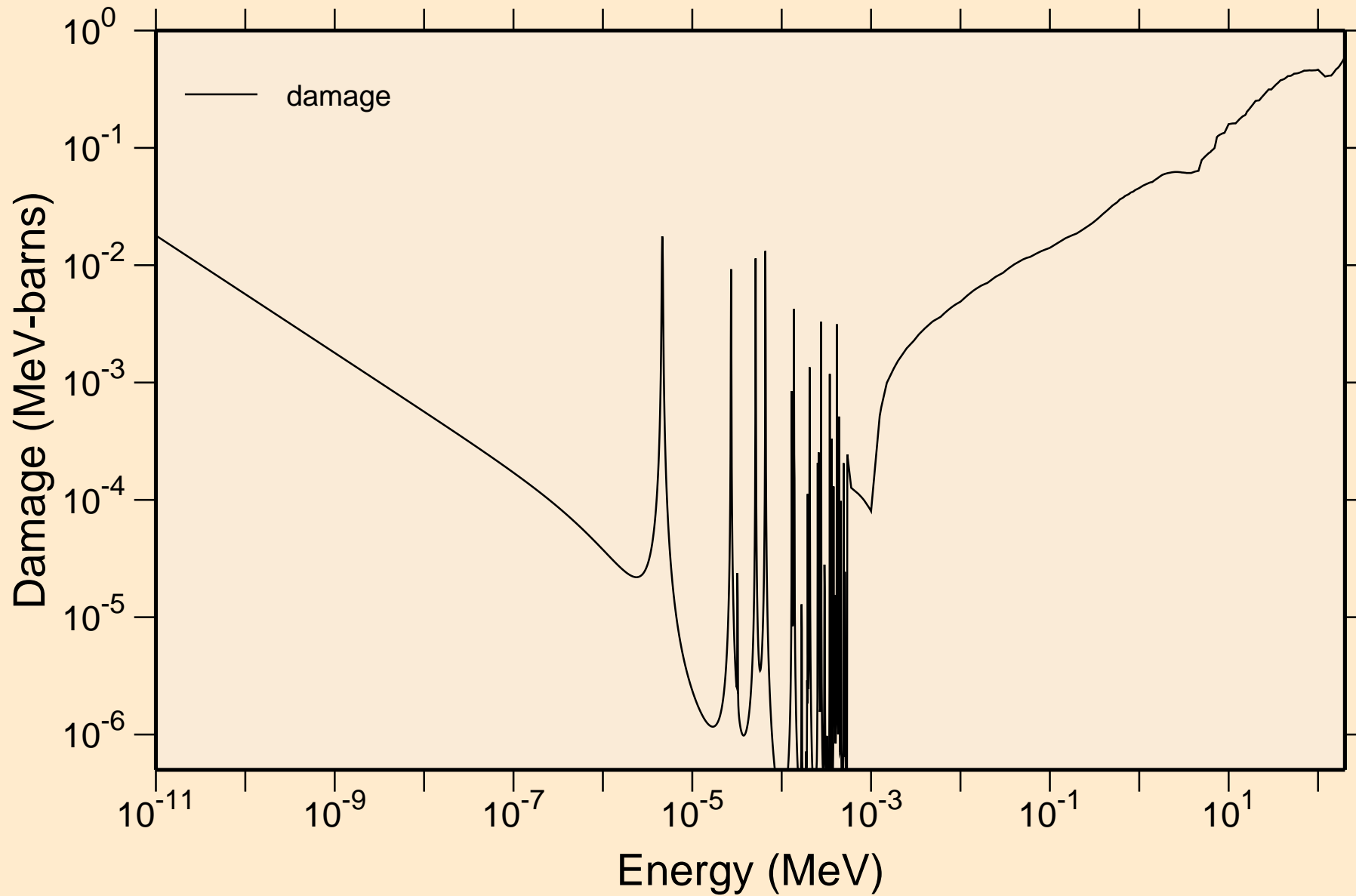


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

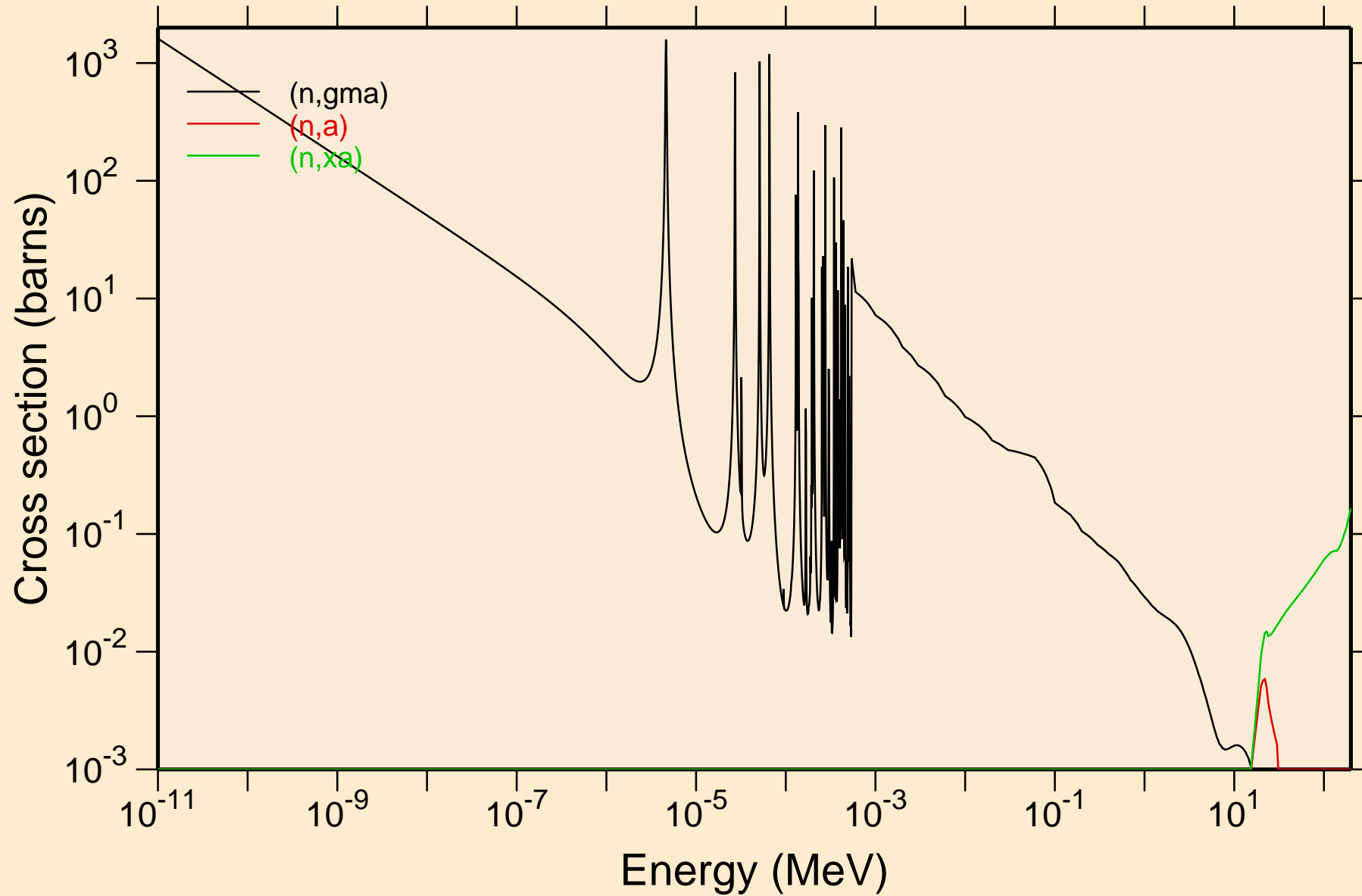


# ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

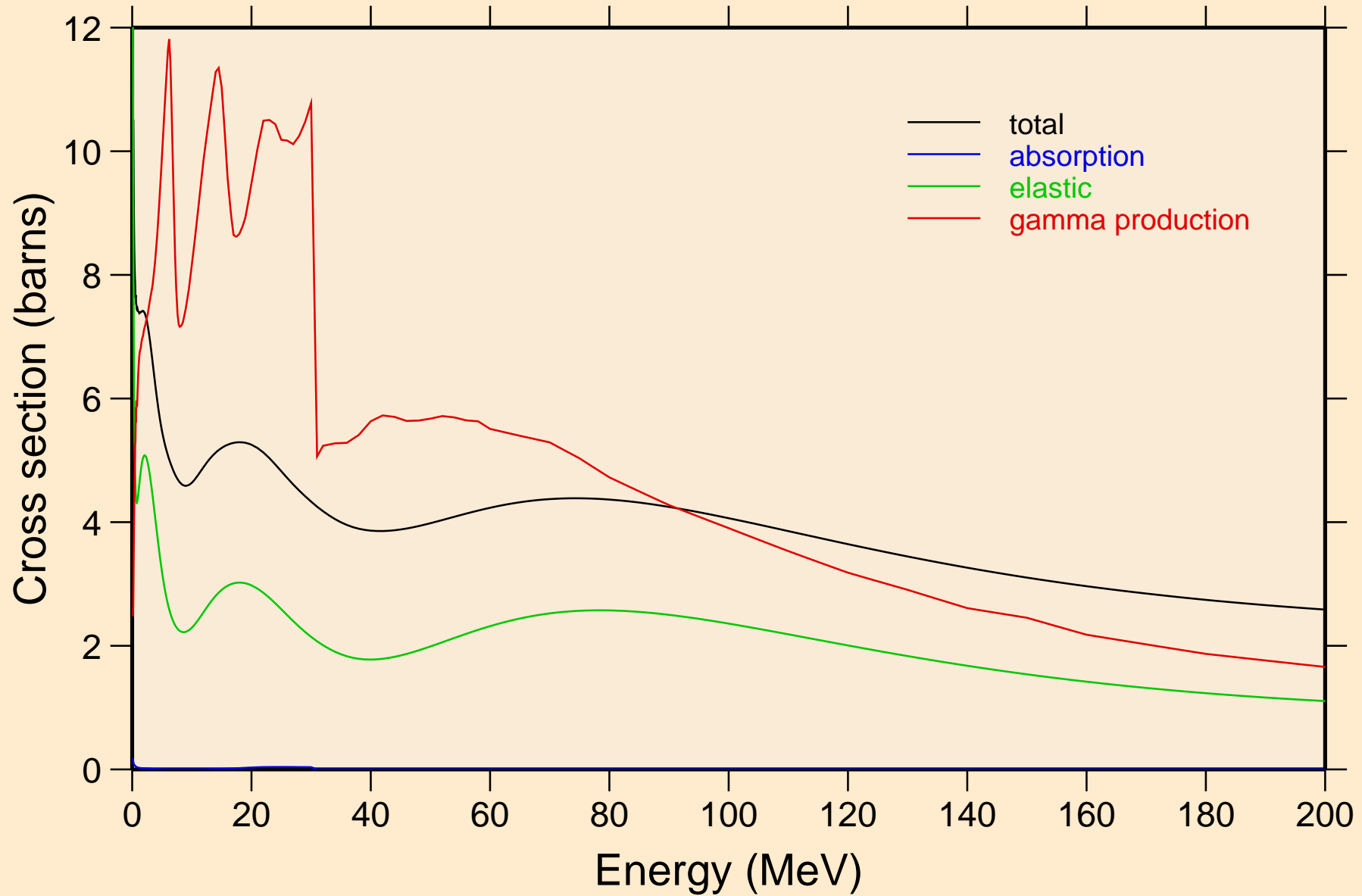
## Damage



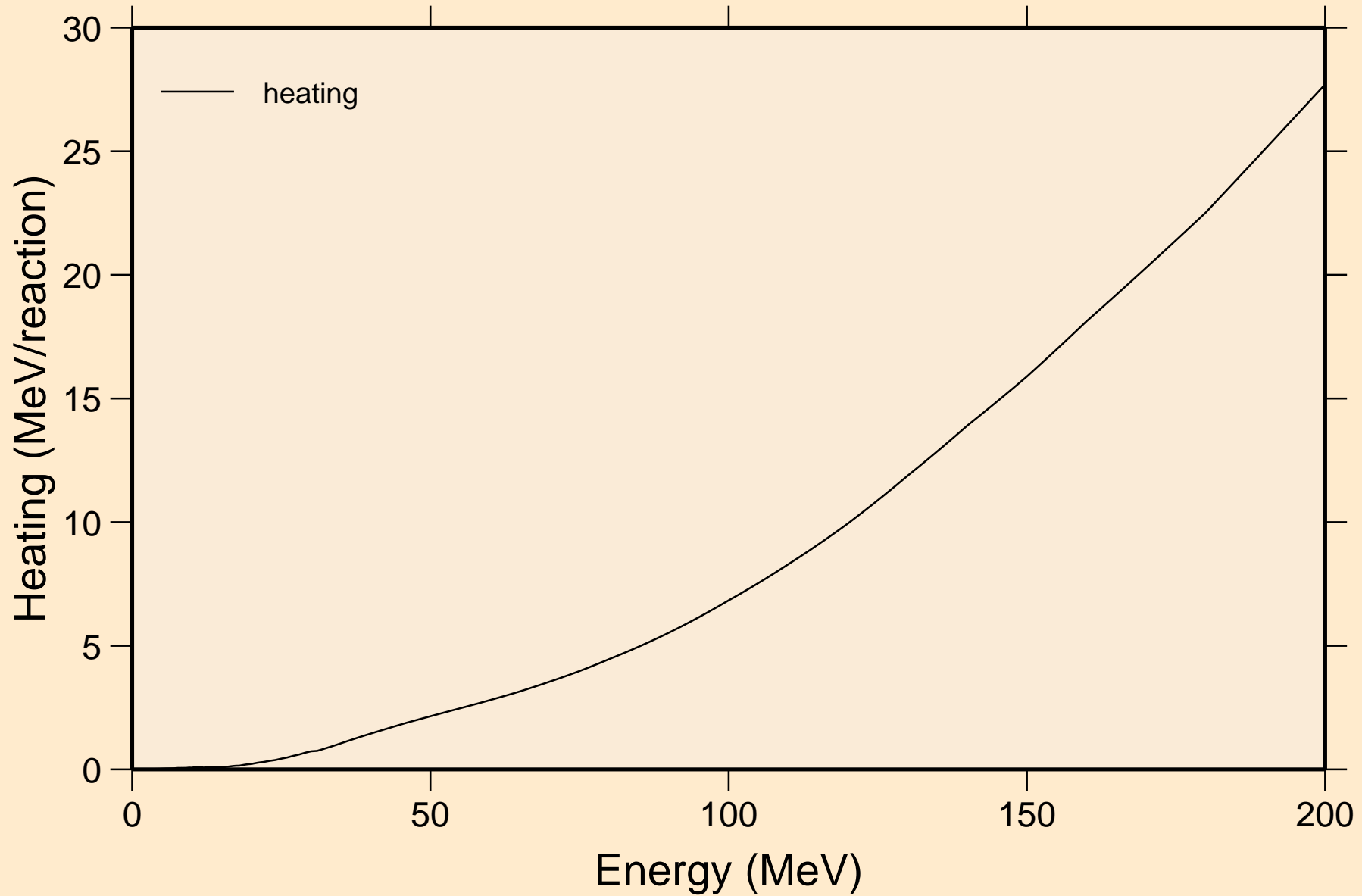
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



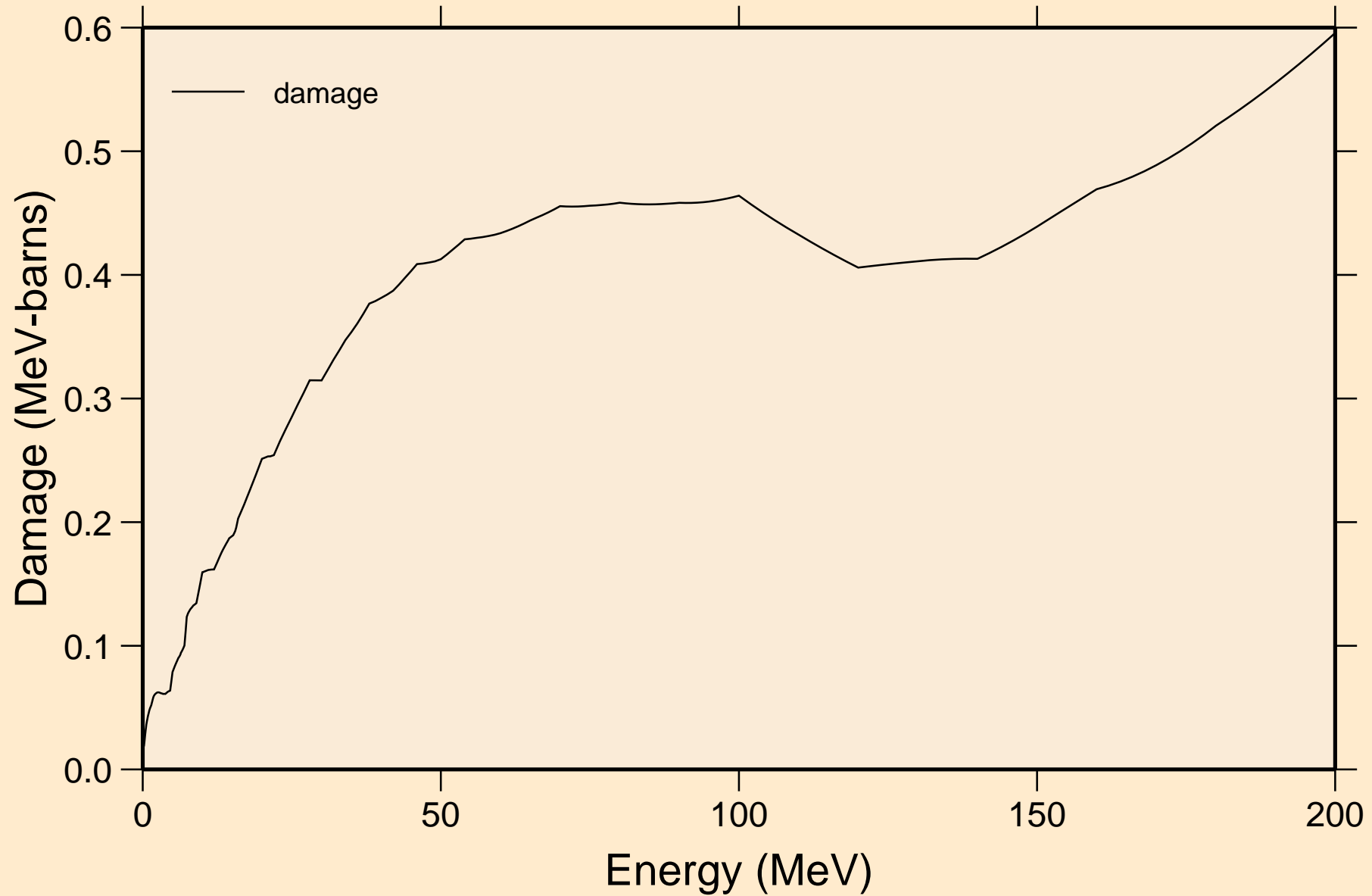
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



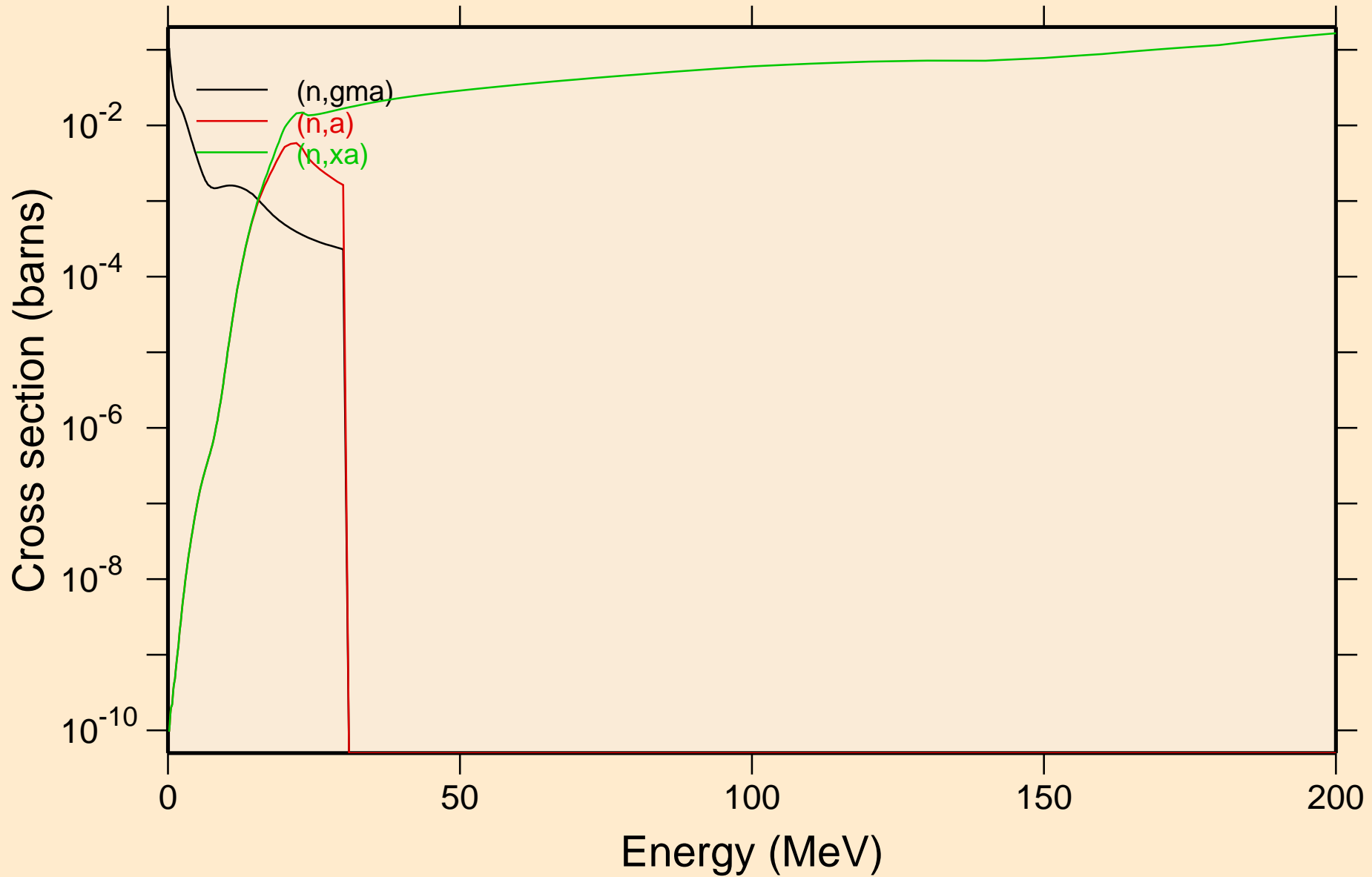
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

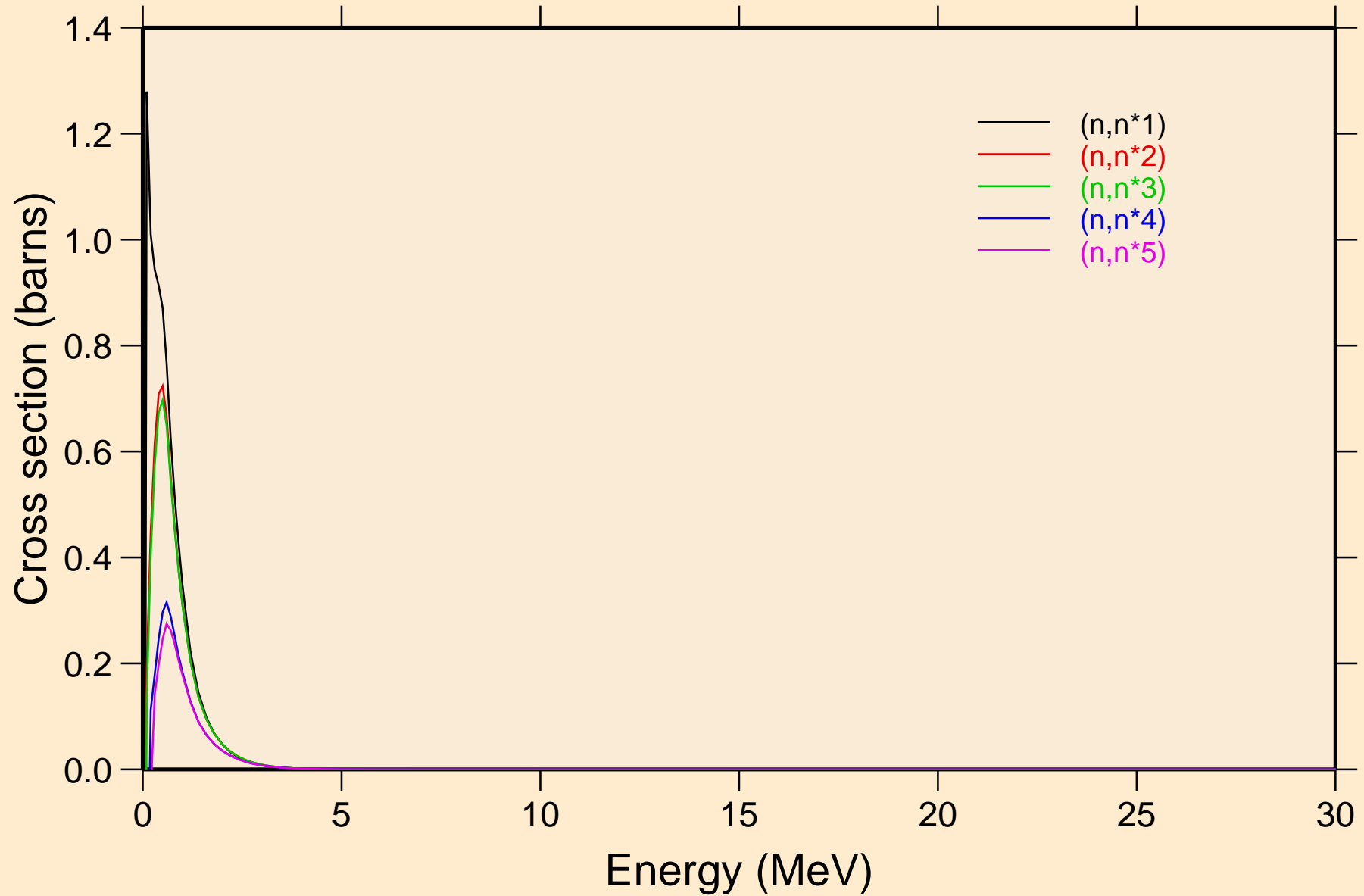


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

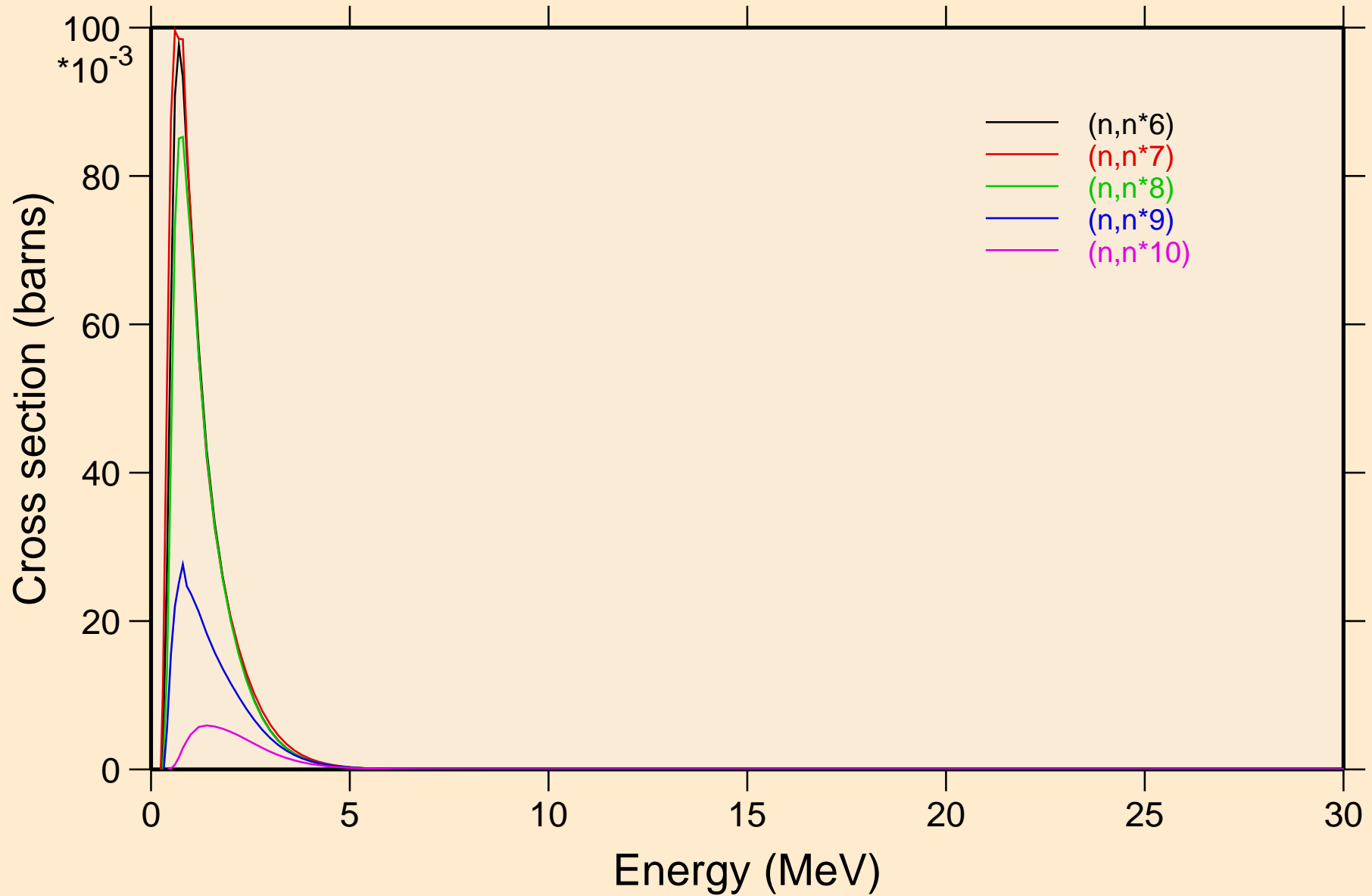




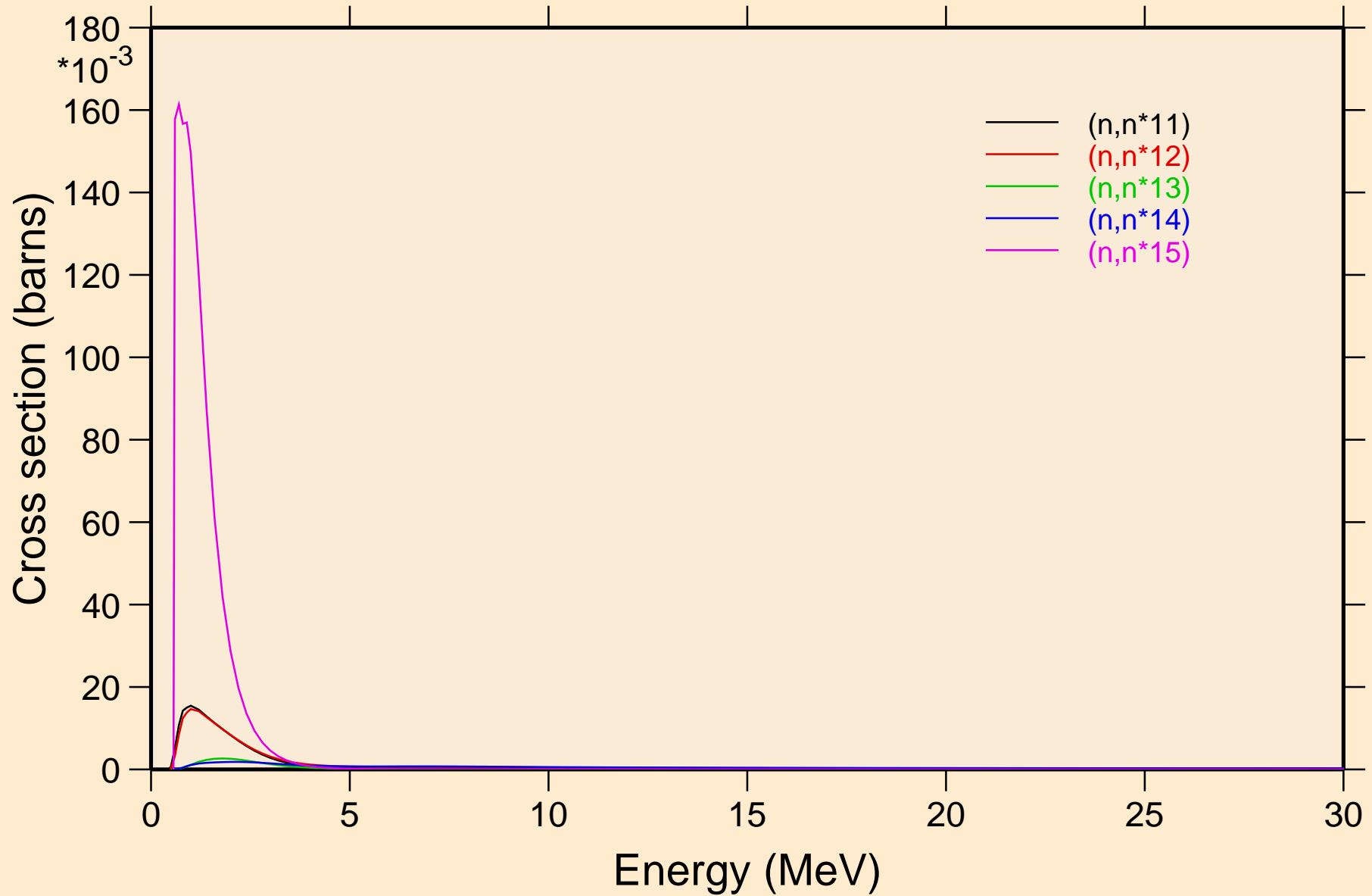
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



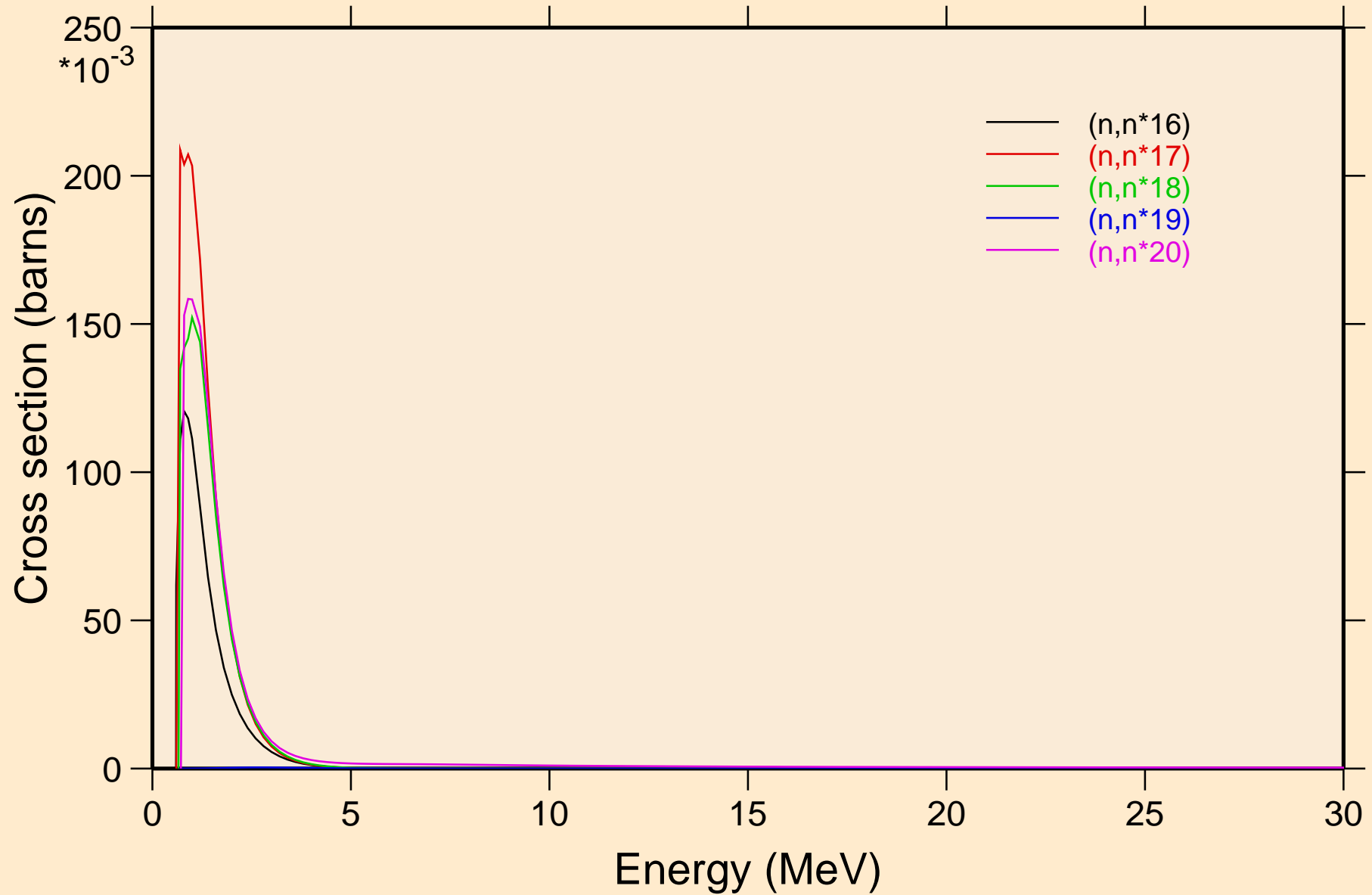
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



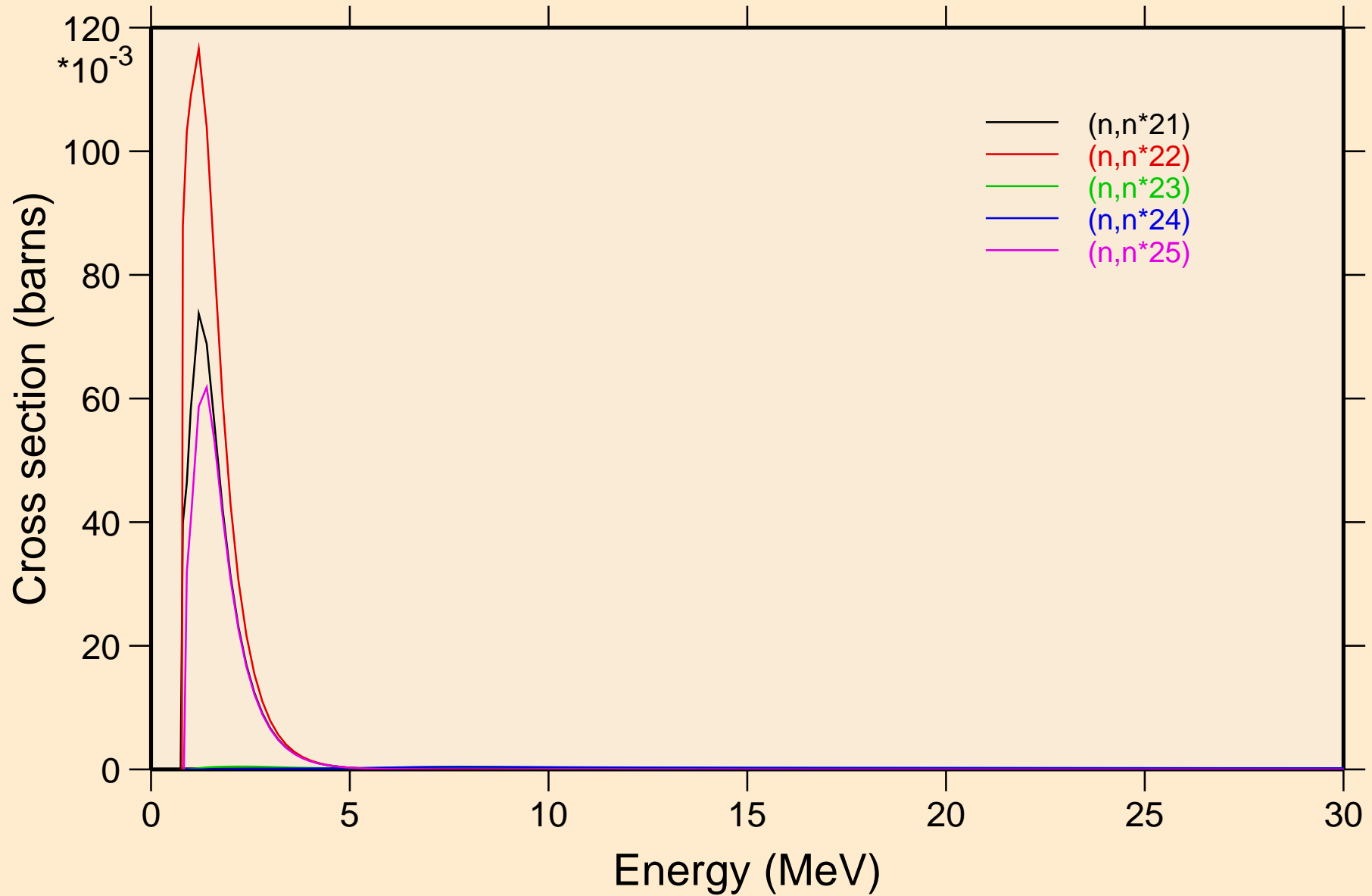
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



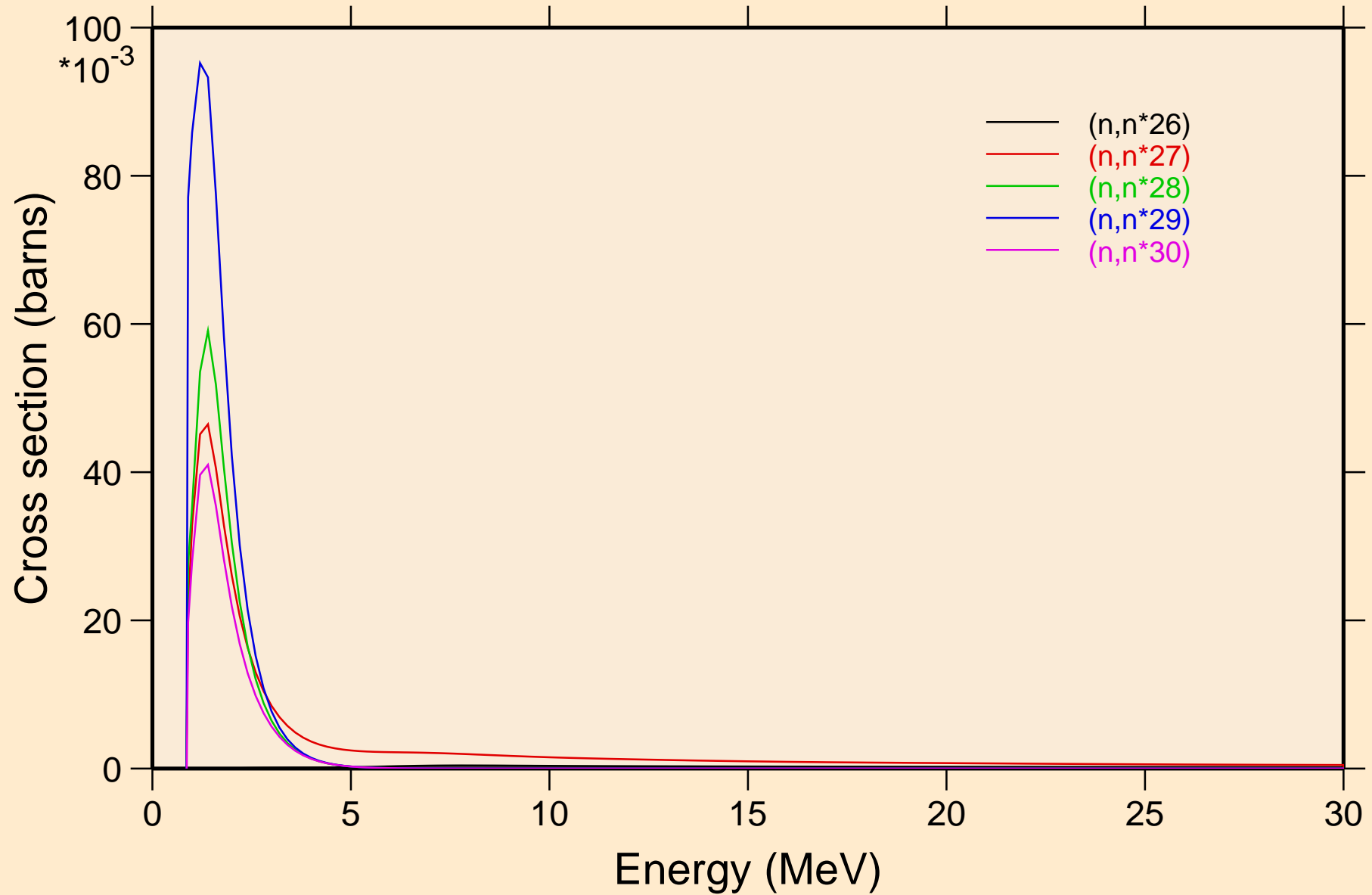
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



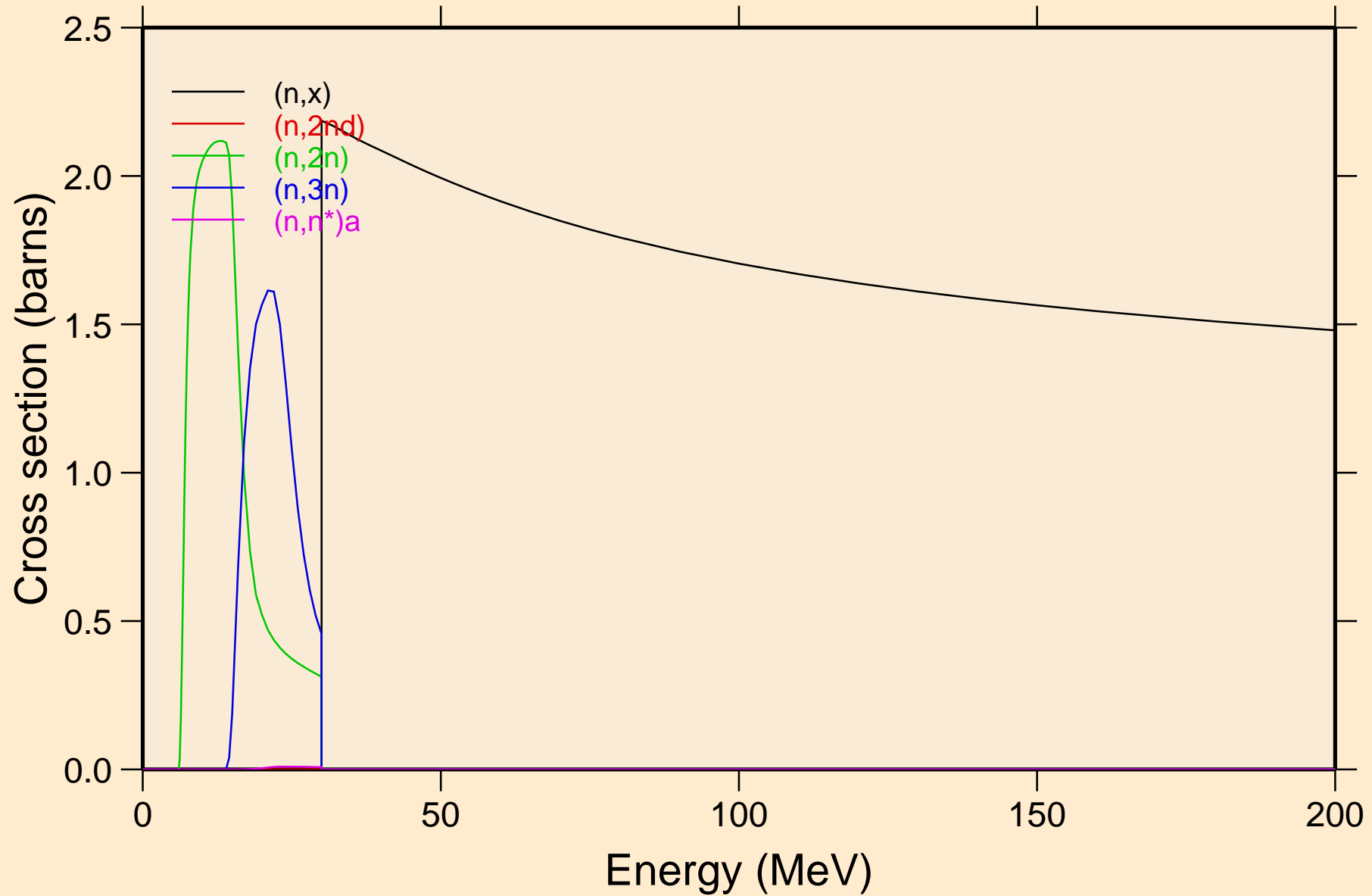
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



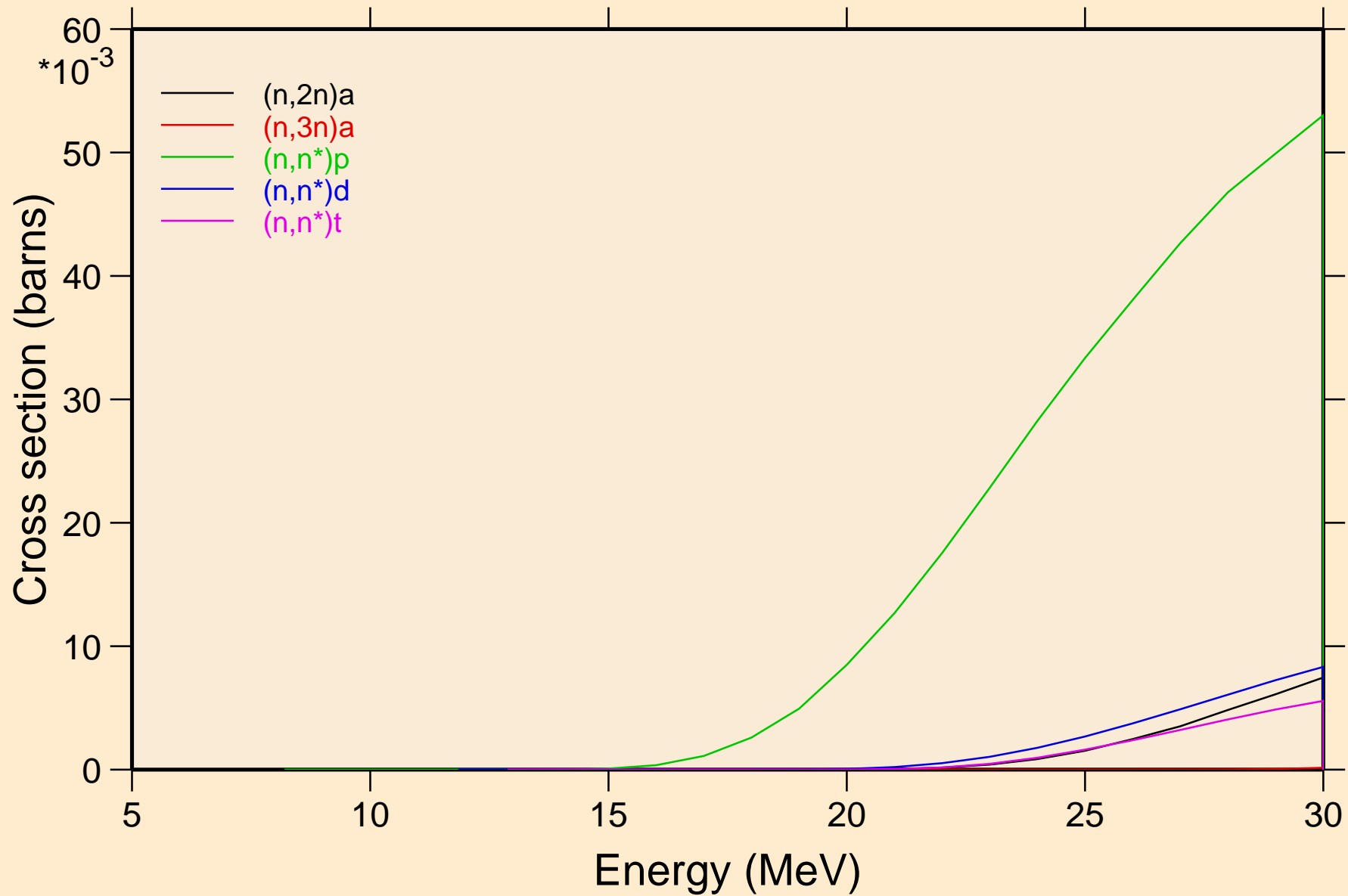
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

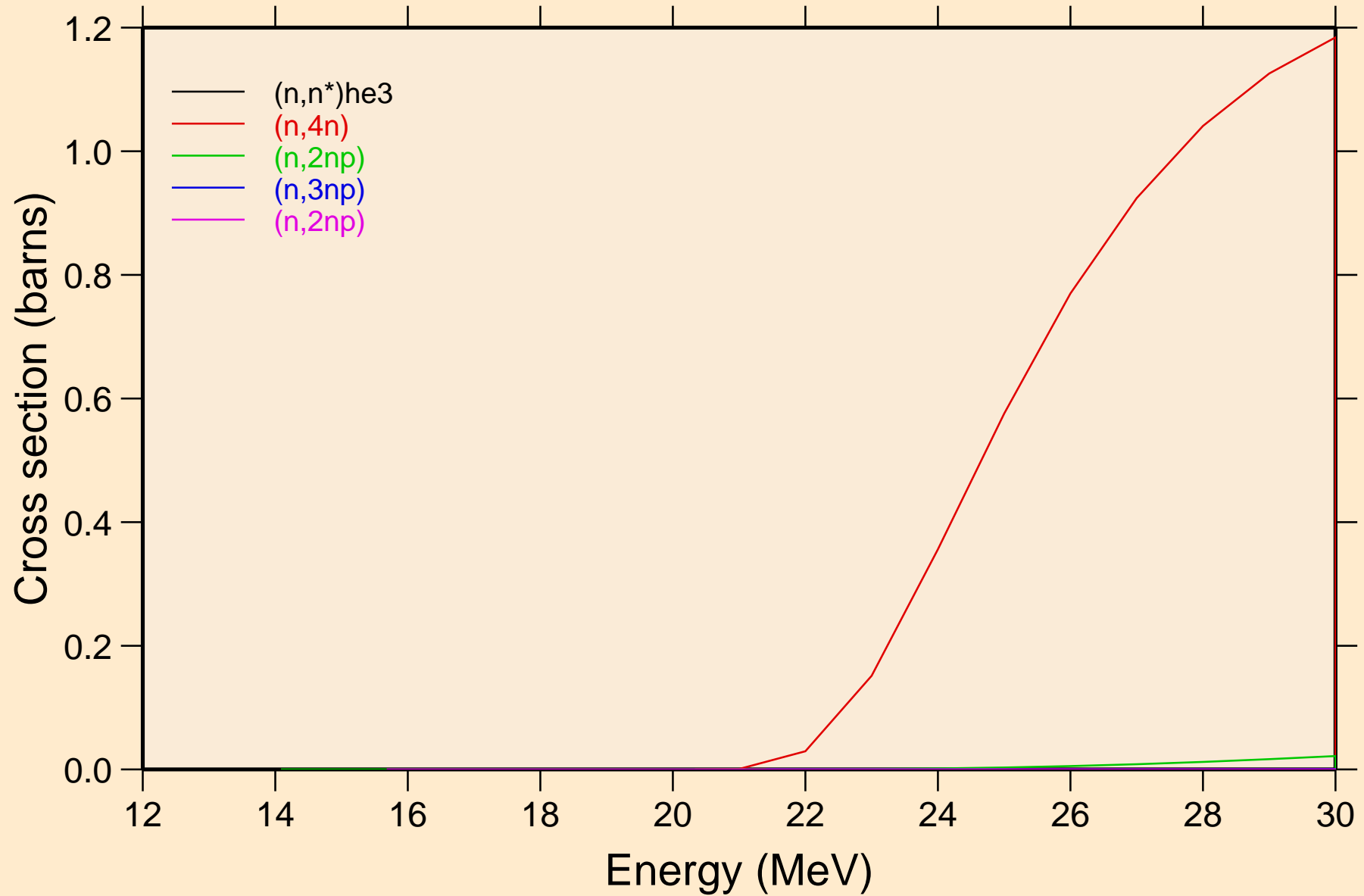


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

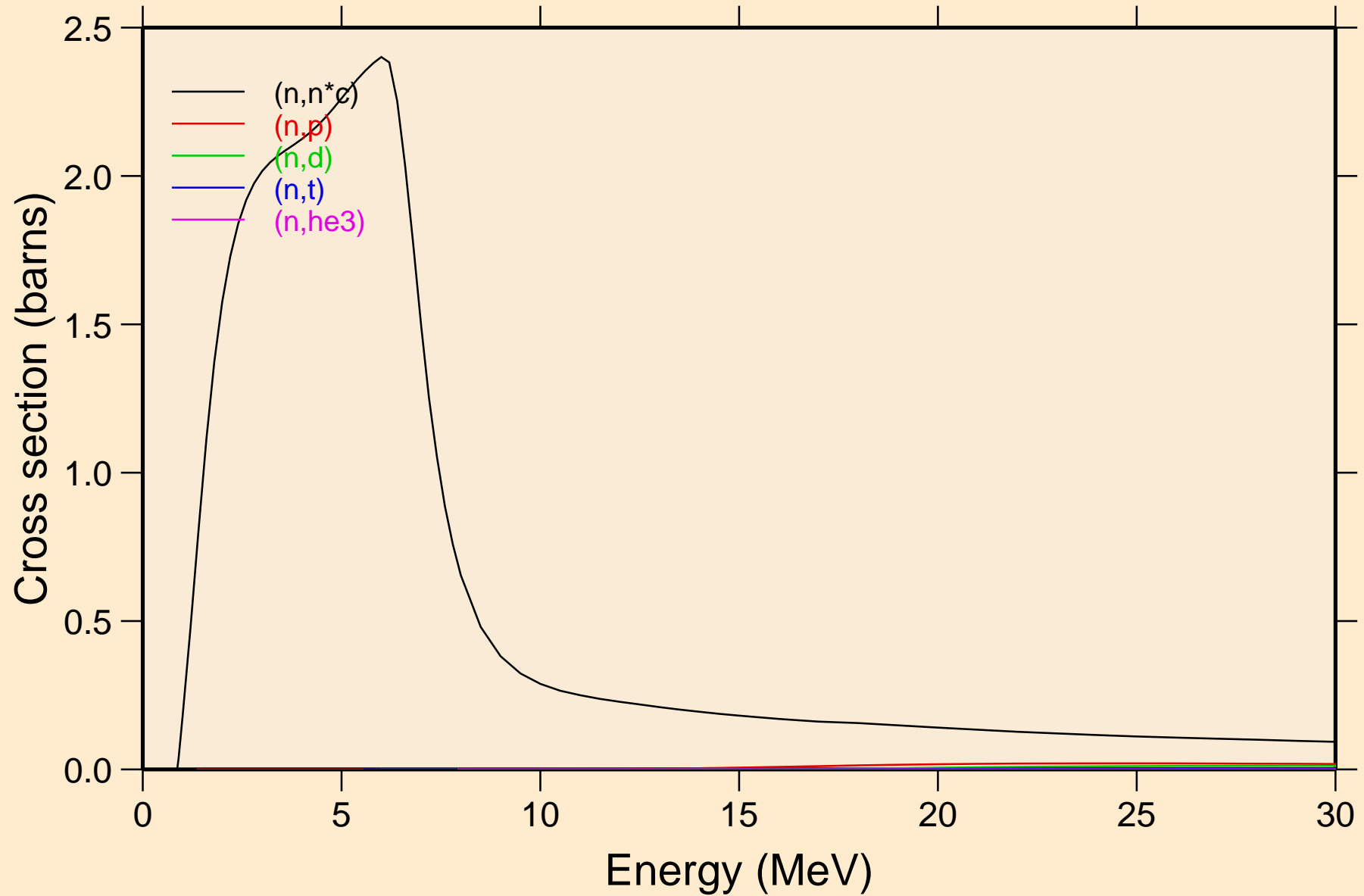




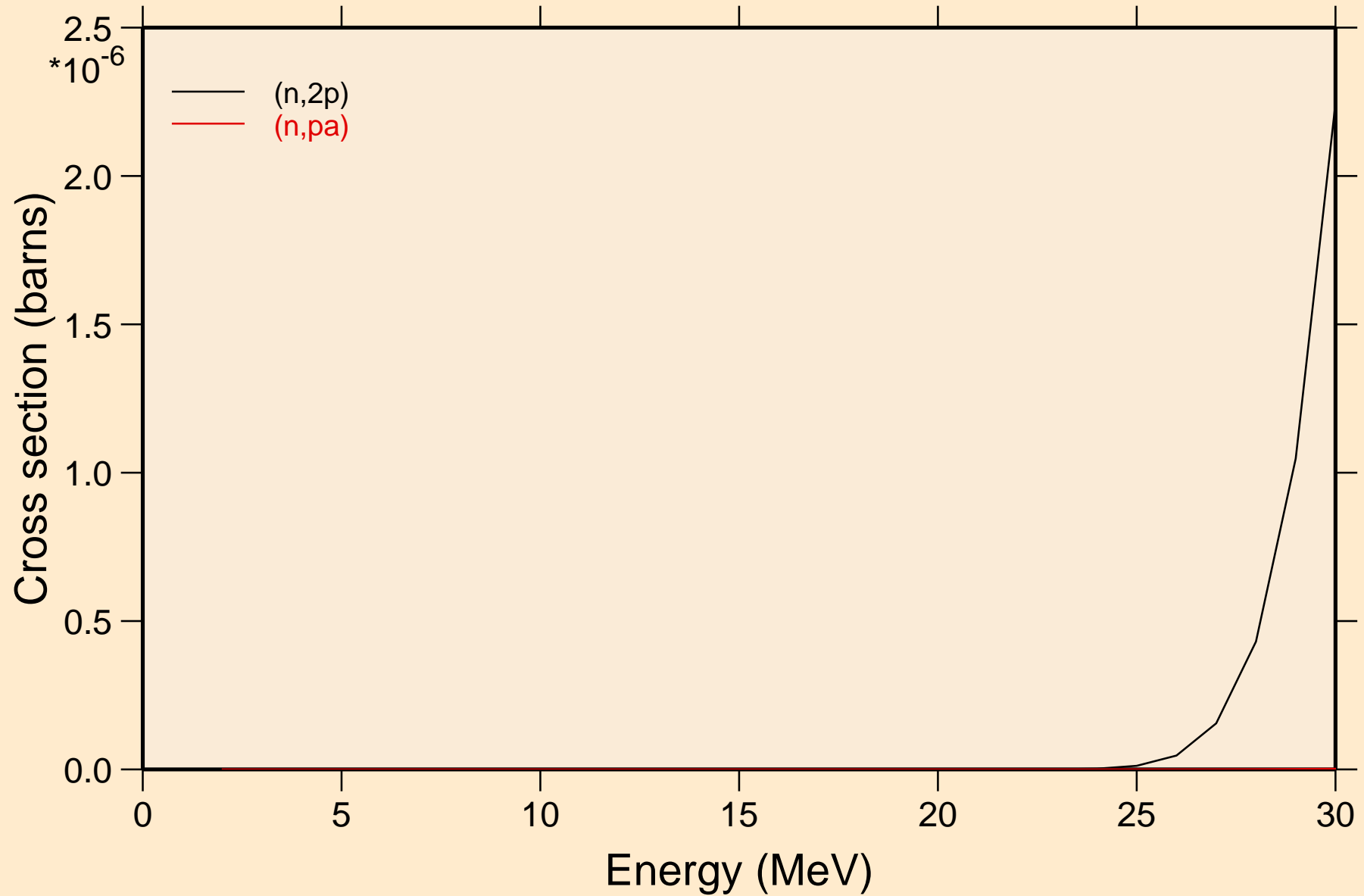
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



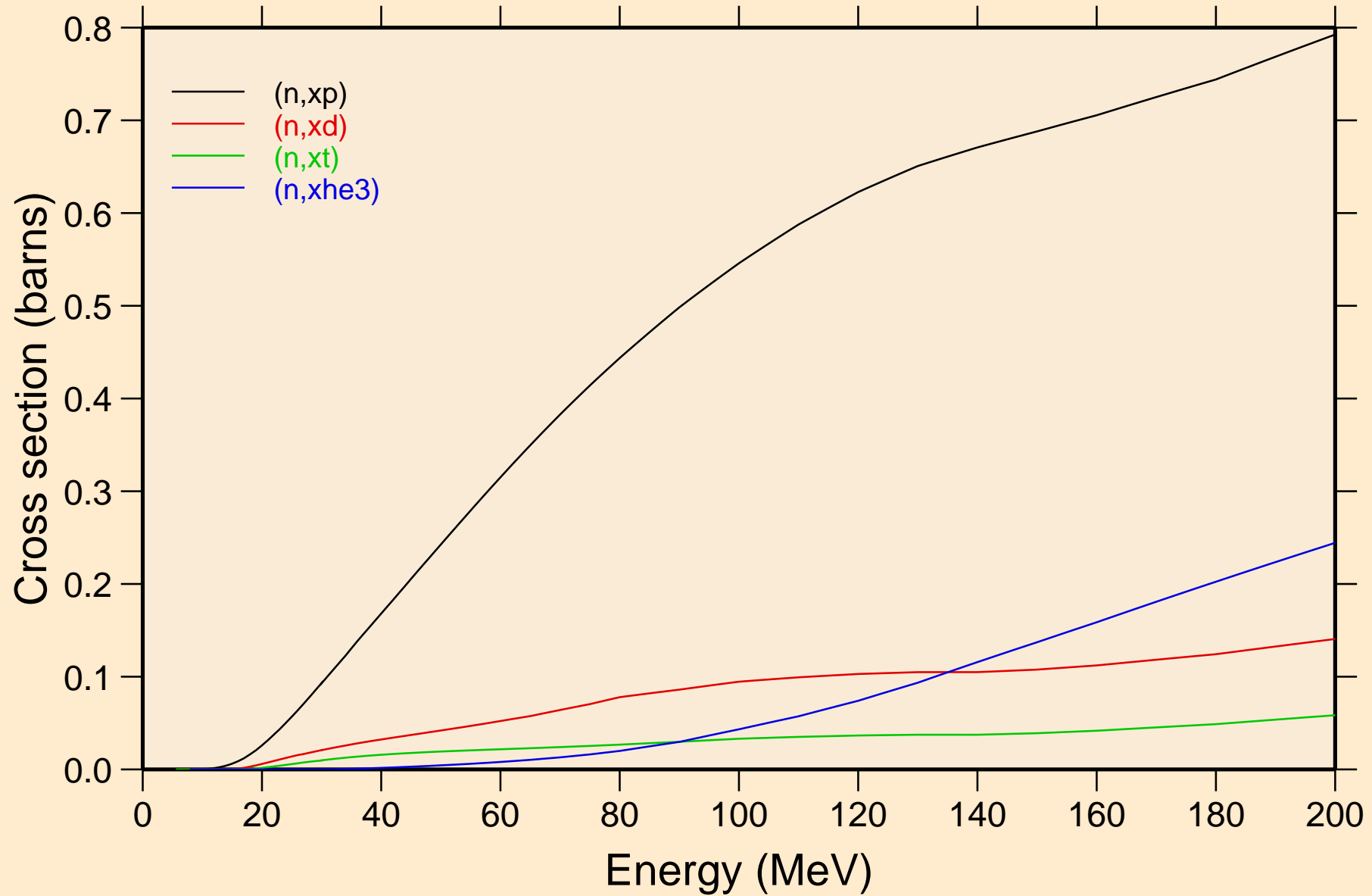
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



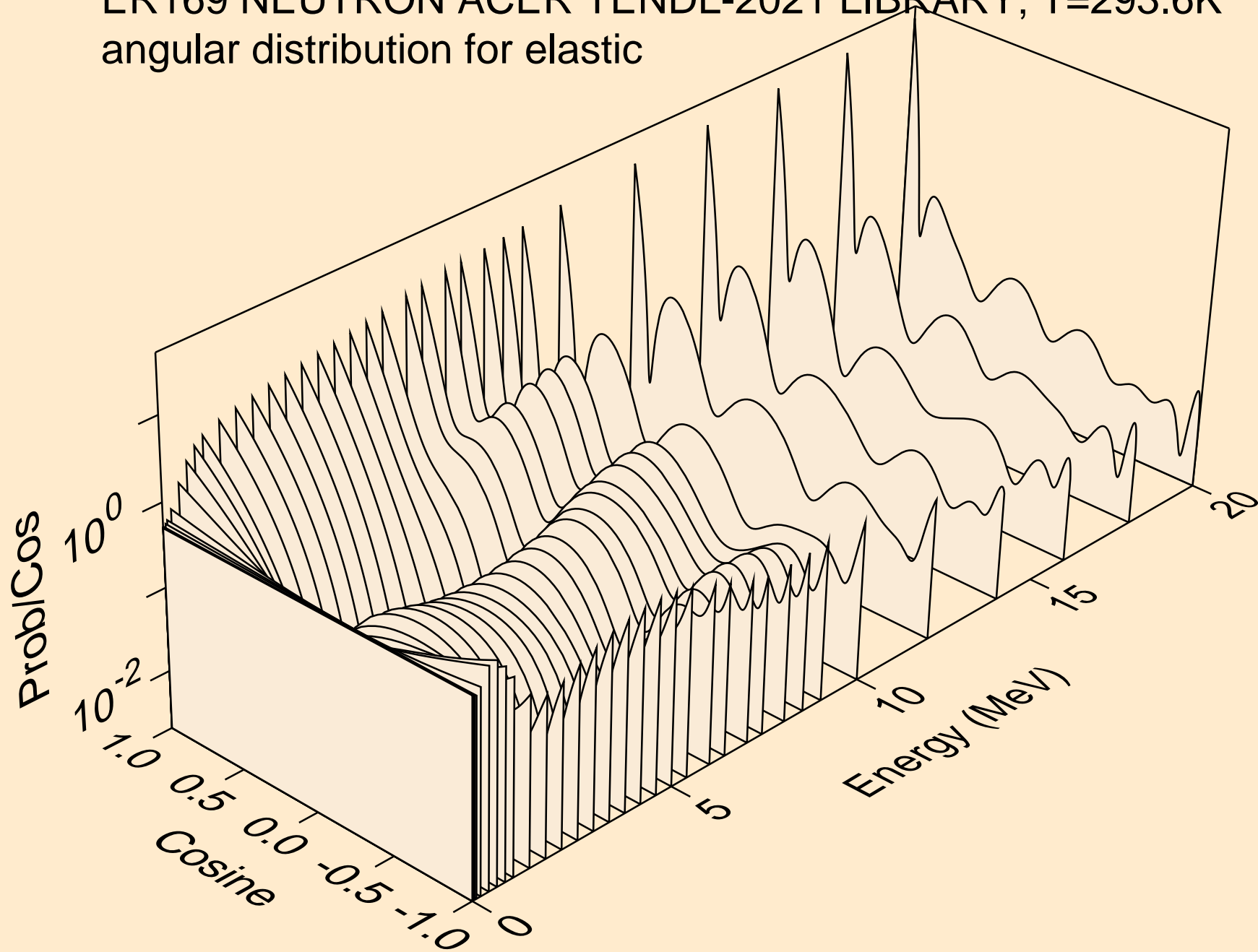
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



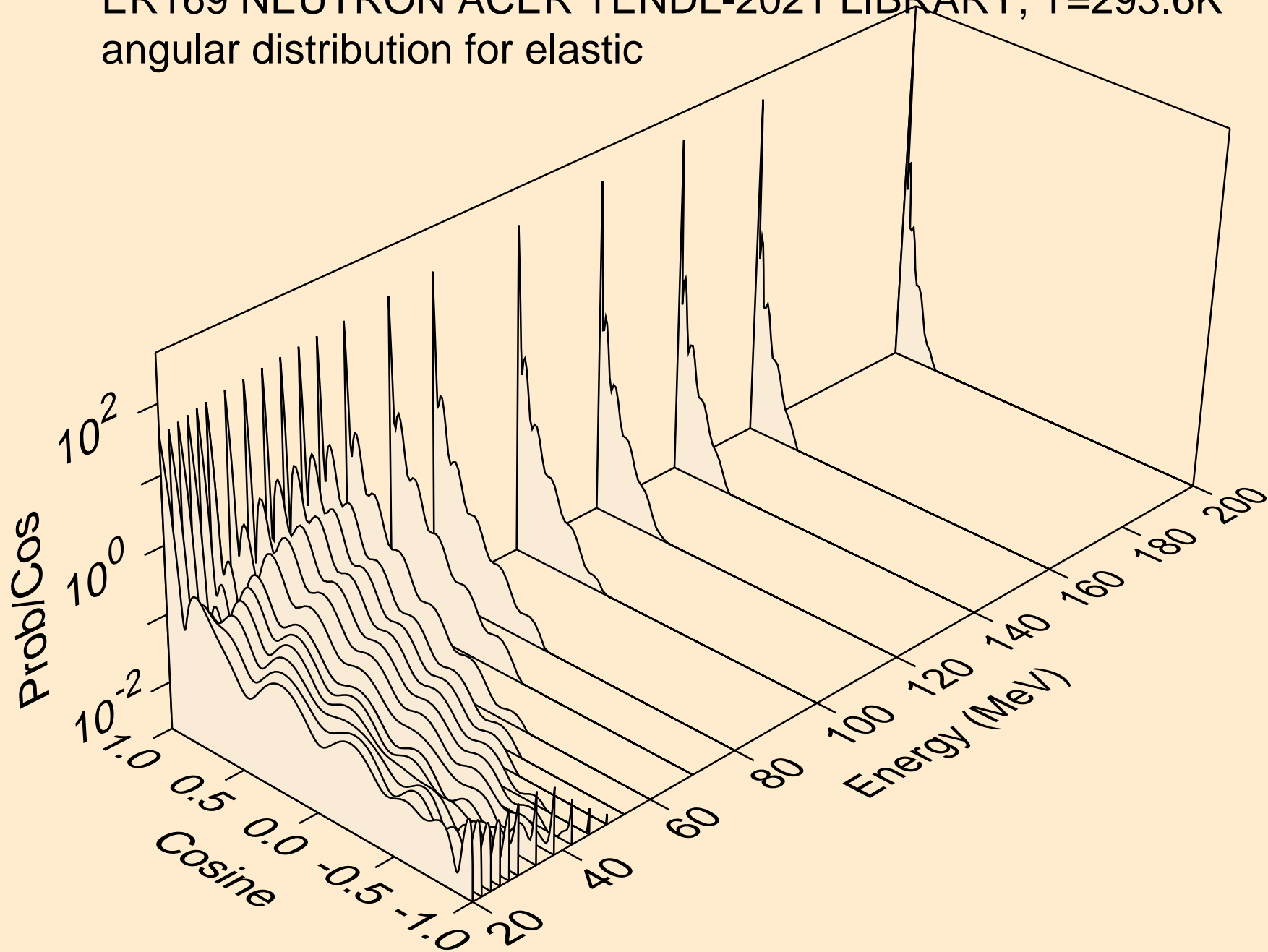
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



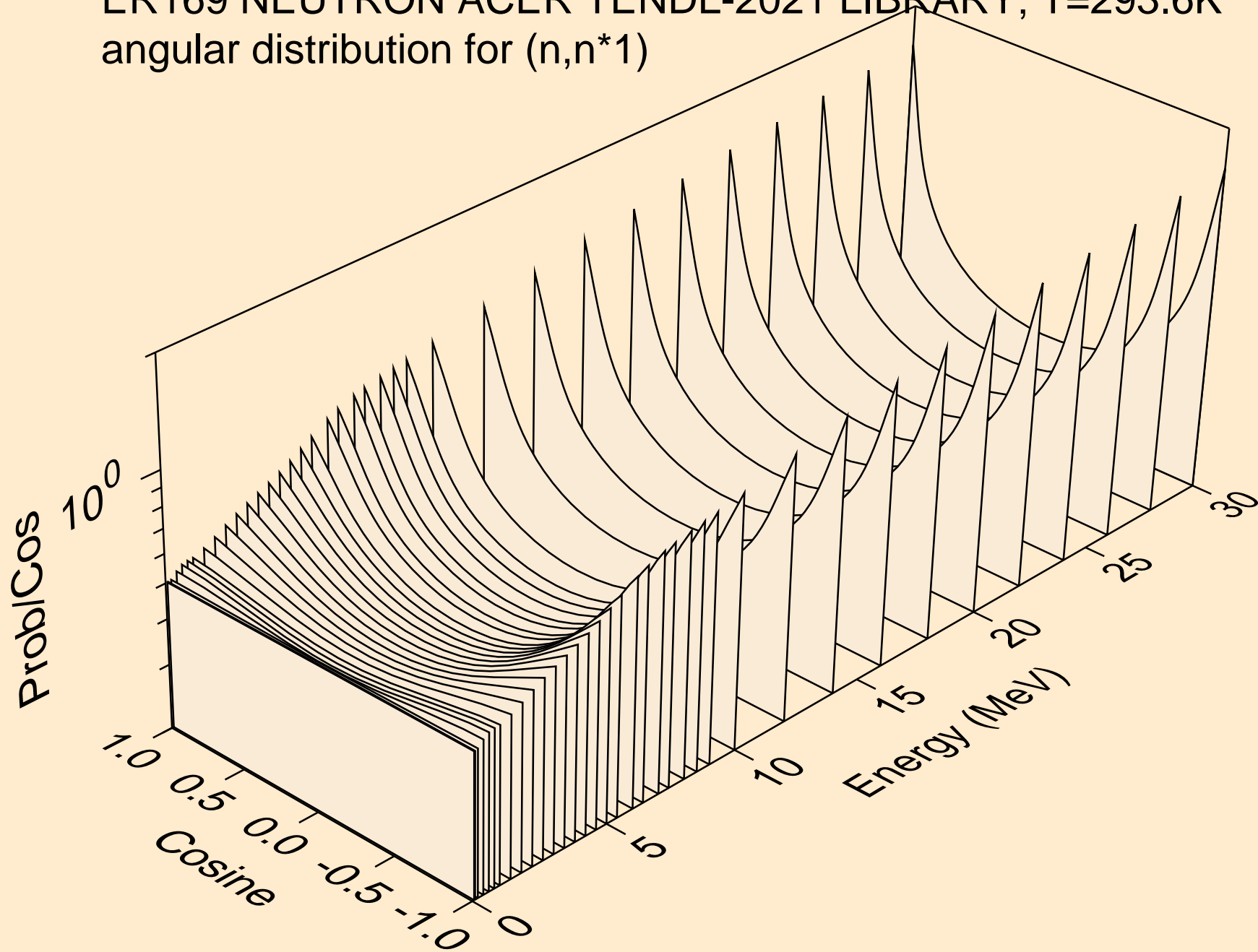
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



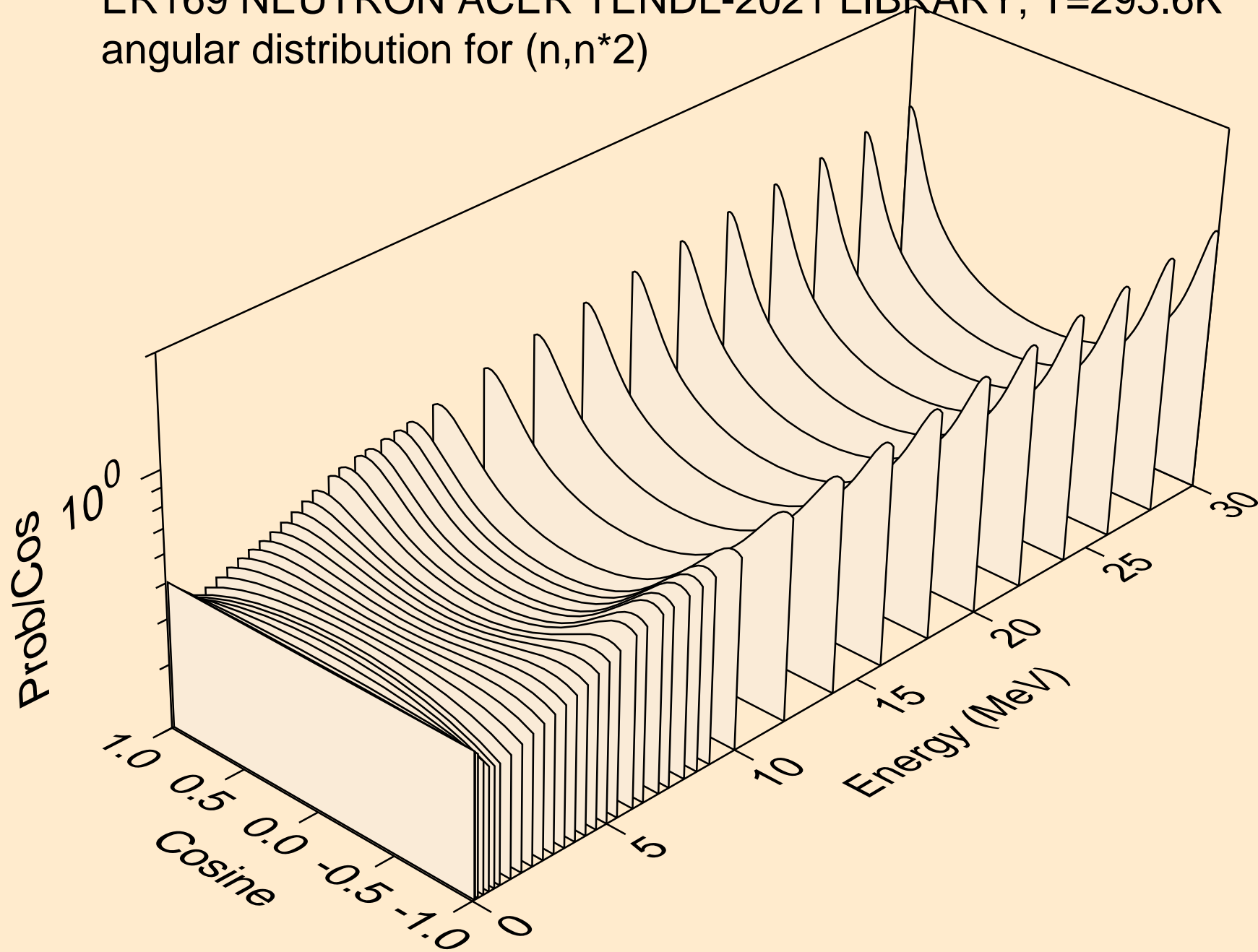
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

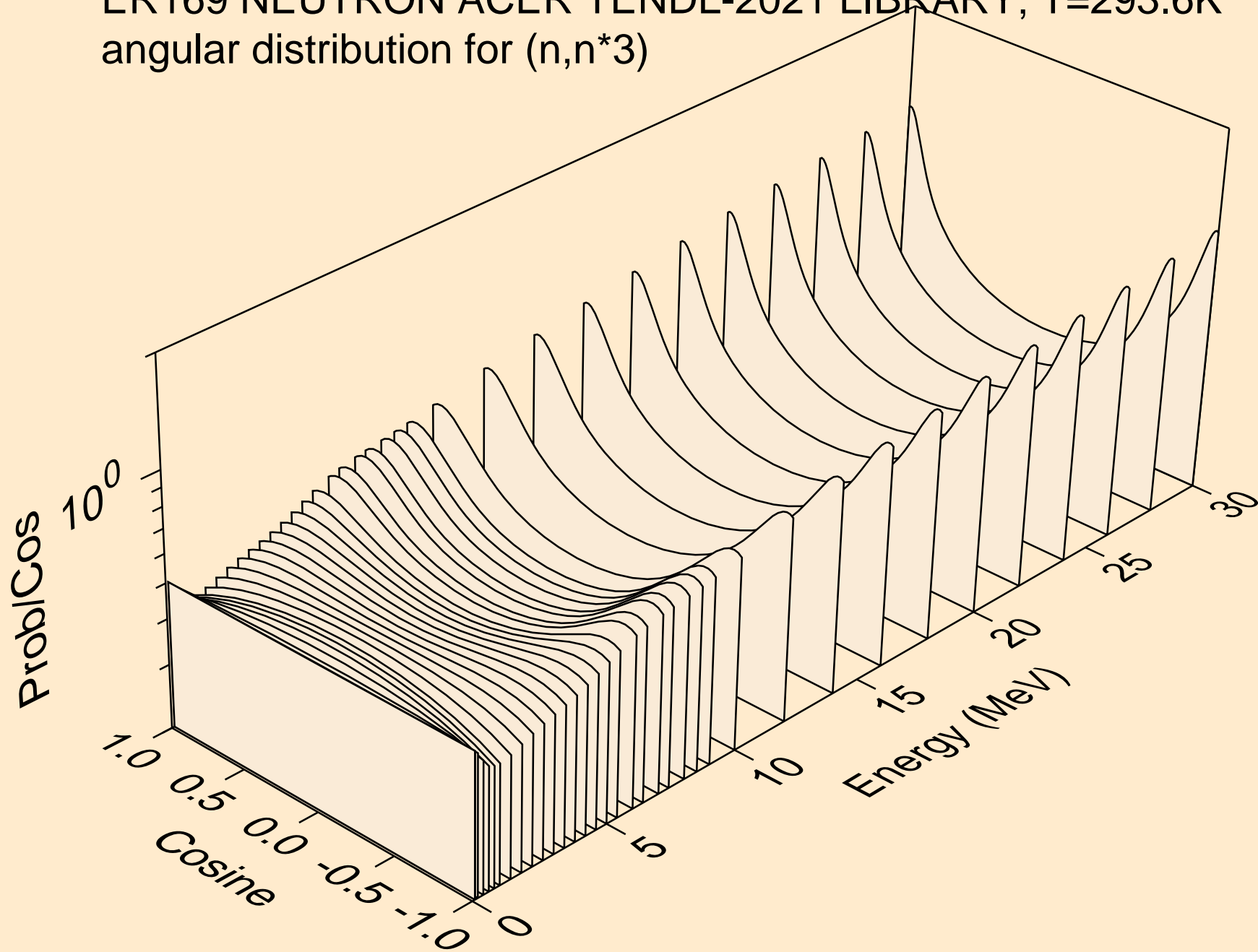


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

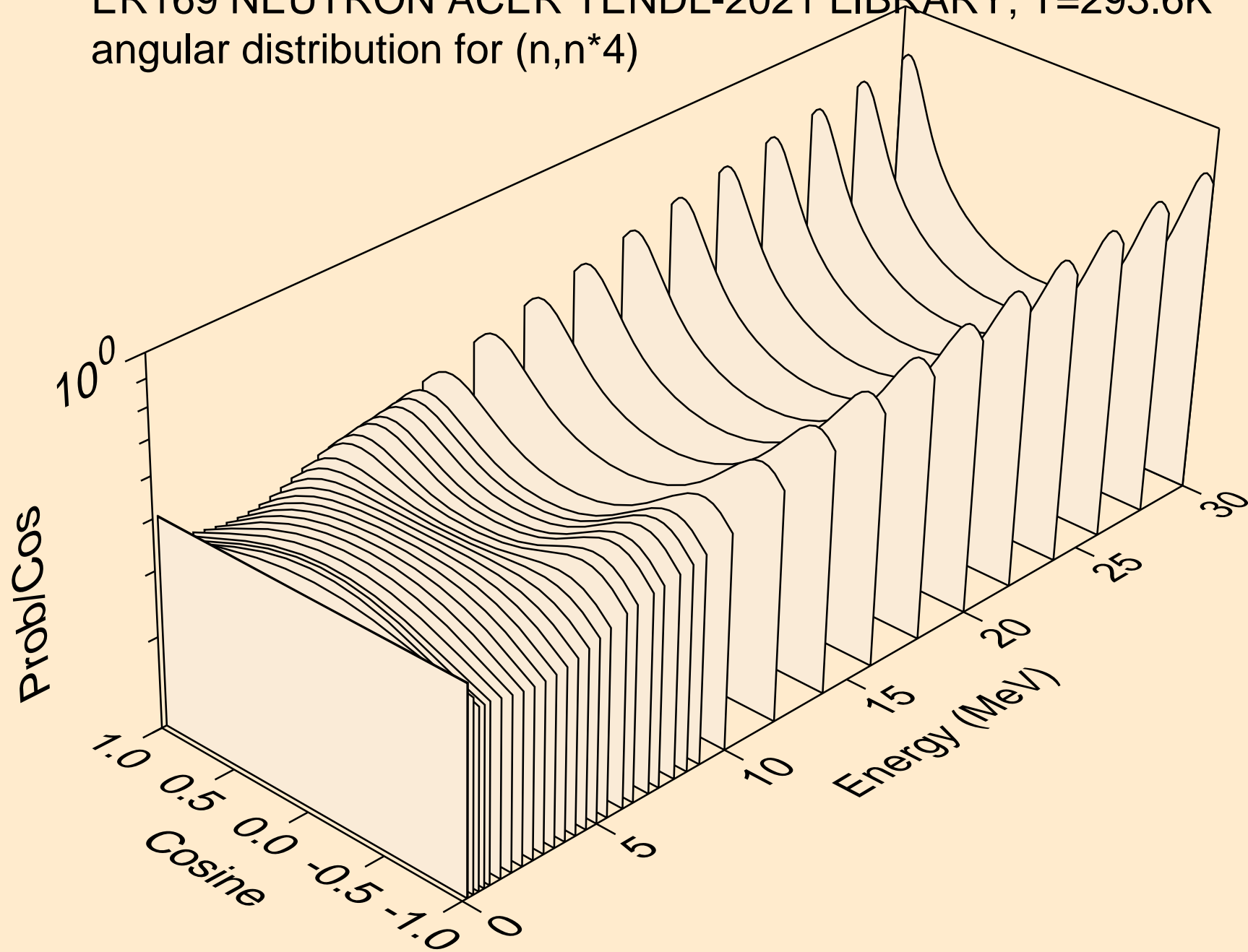




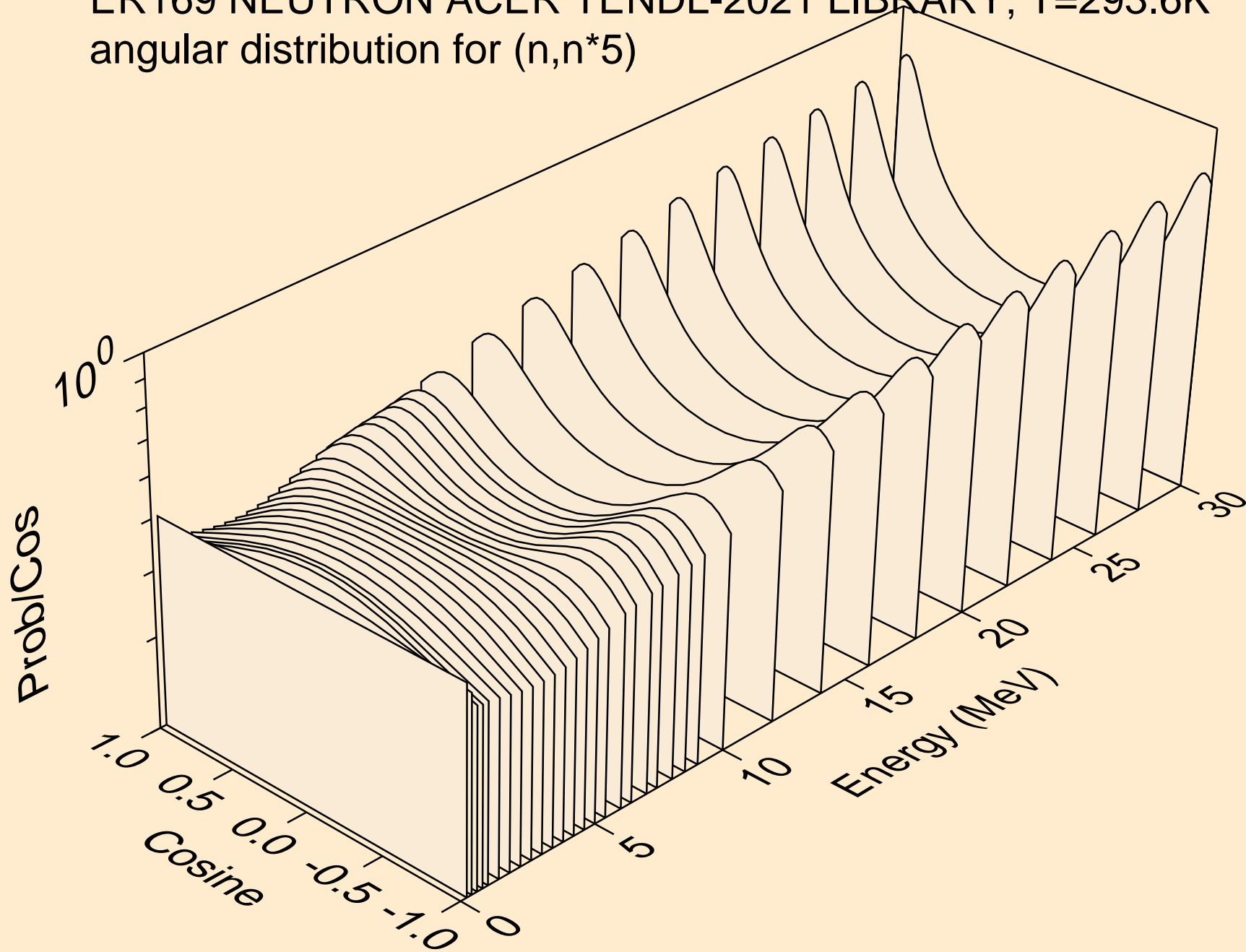
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angular distribution for (n,n\*3)



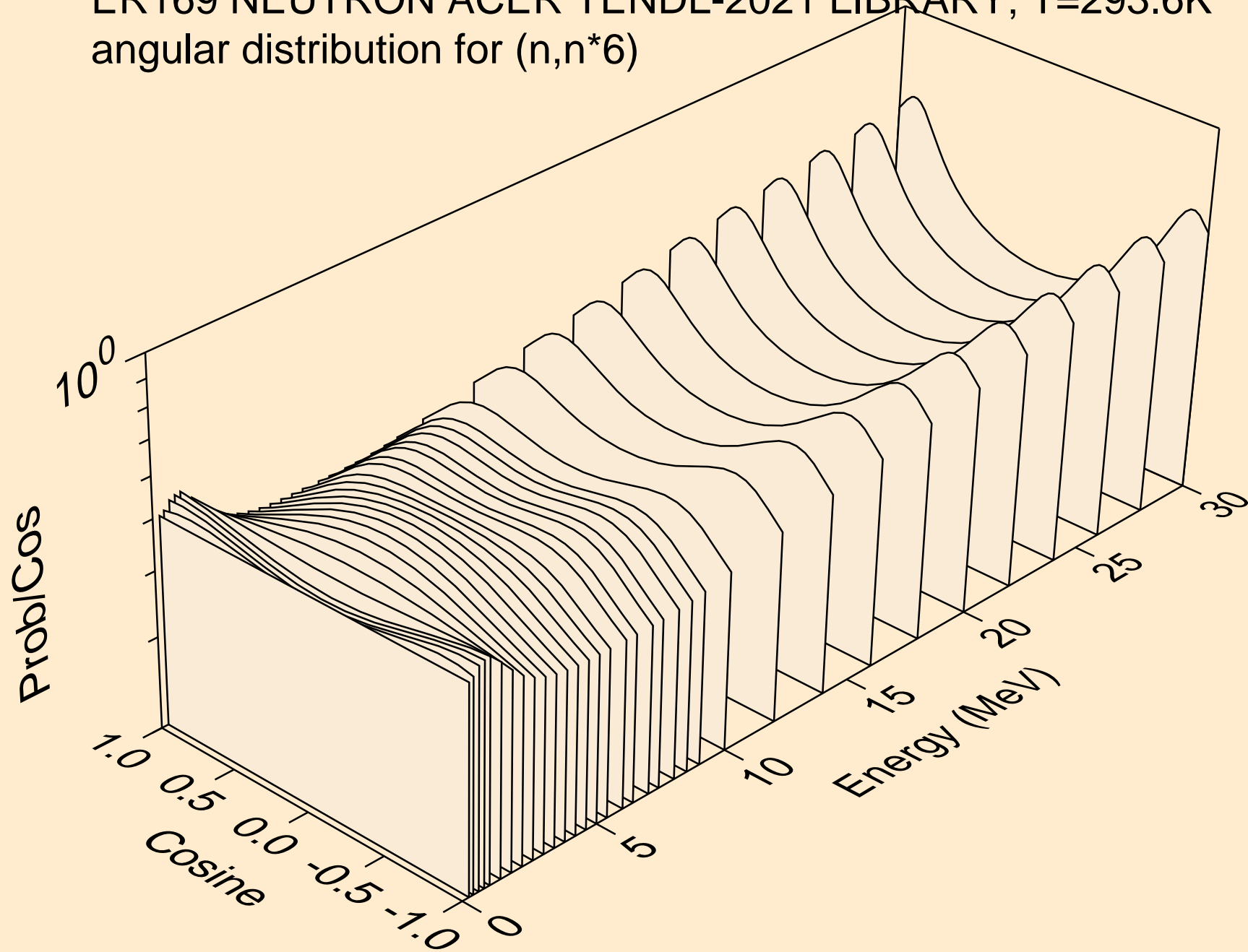
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angular distribution for (n,n\*4)



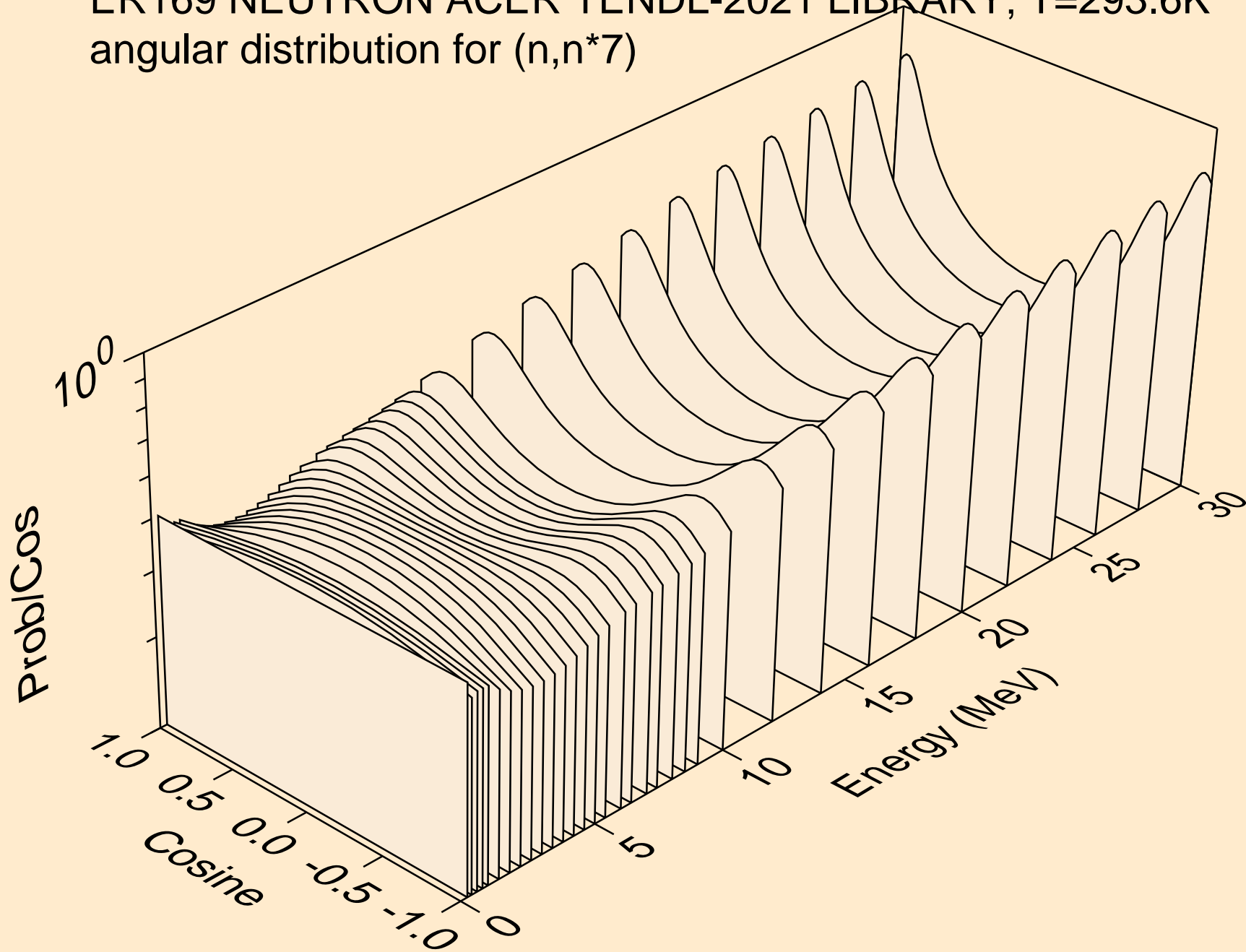
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angular distribution for (n,n\*5)



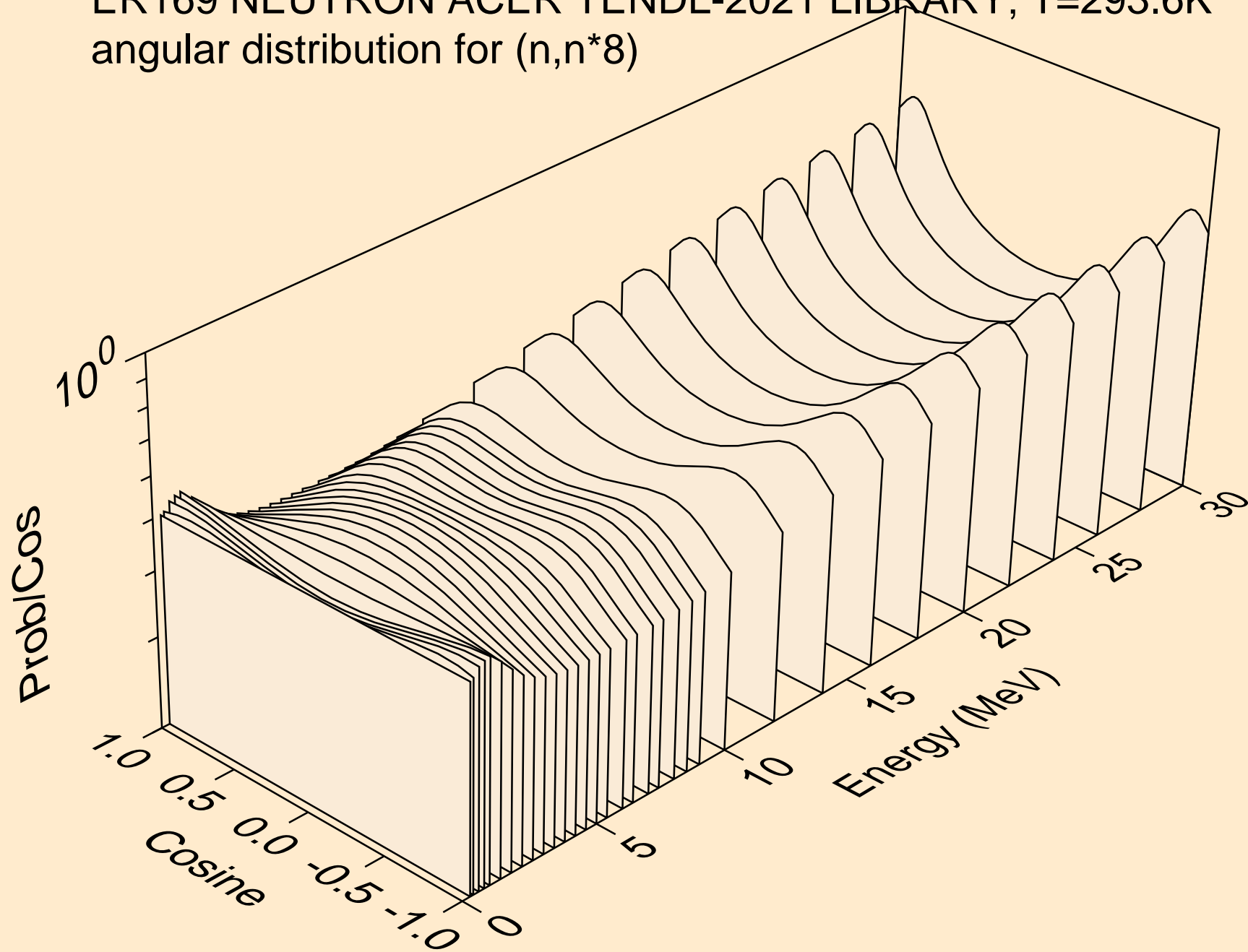
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angular distribution for (n,n\*6)



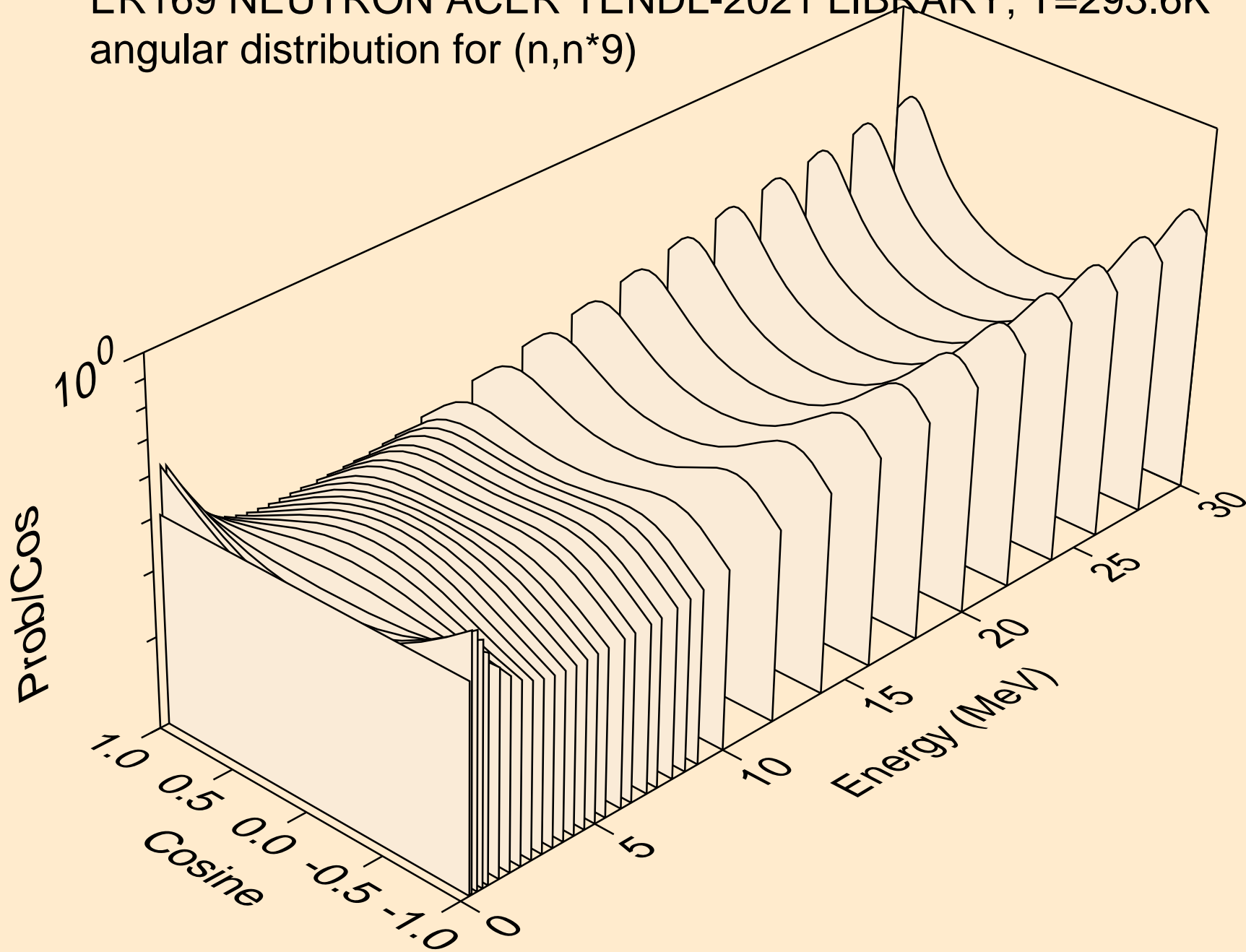
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angular distribution for (n,n\*7)



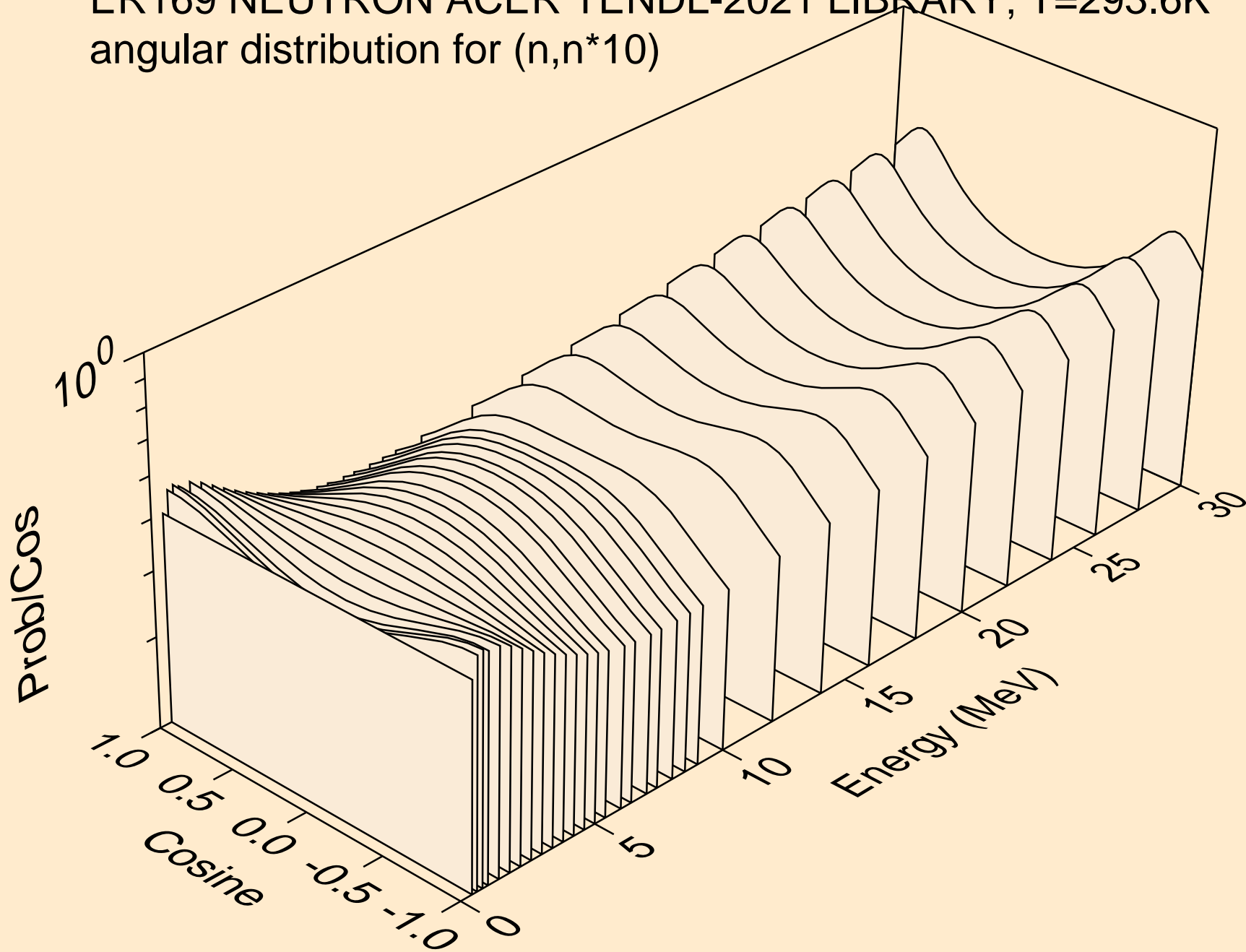
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

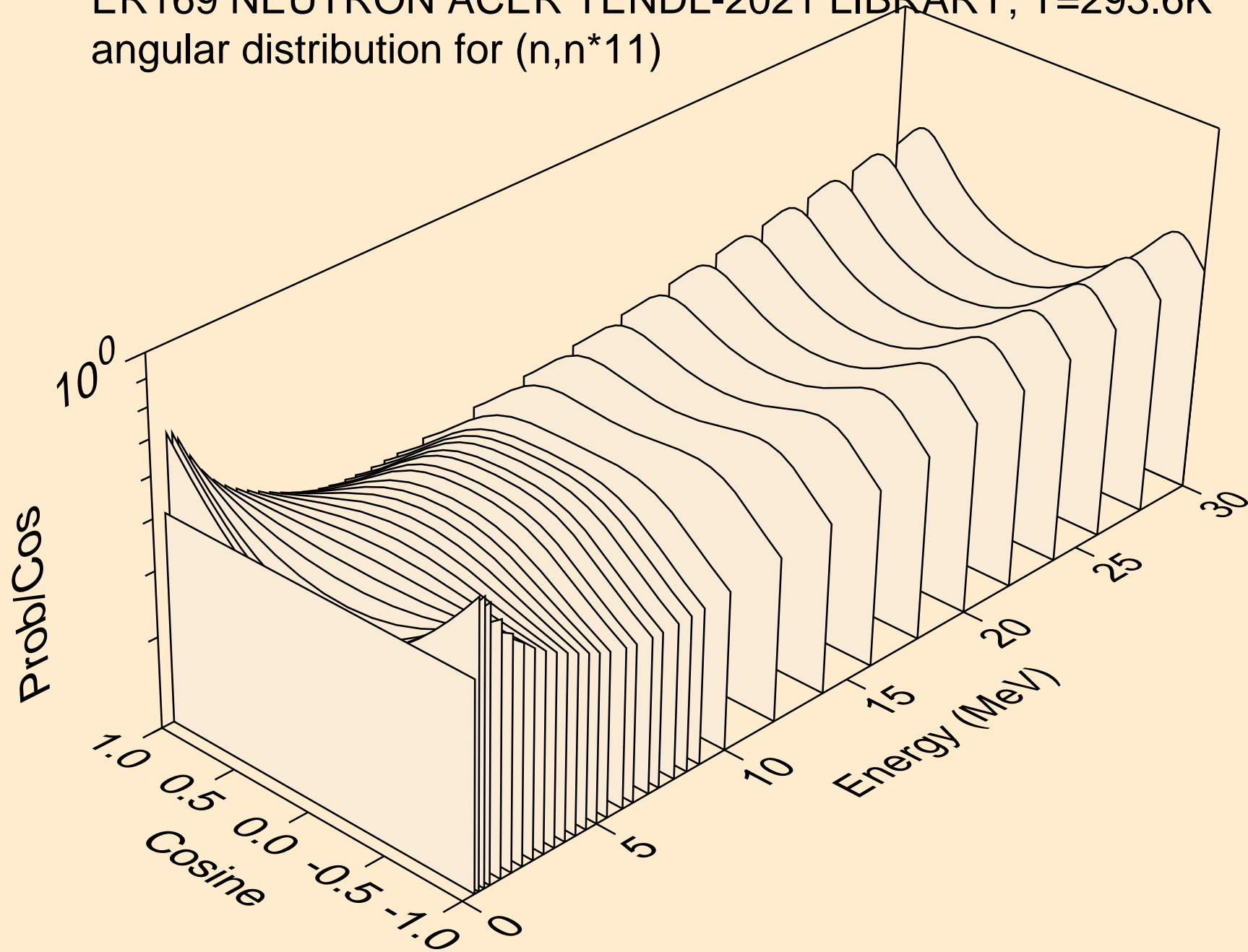


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angular distribution for (n,n\*10)

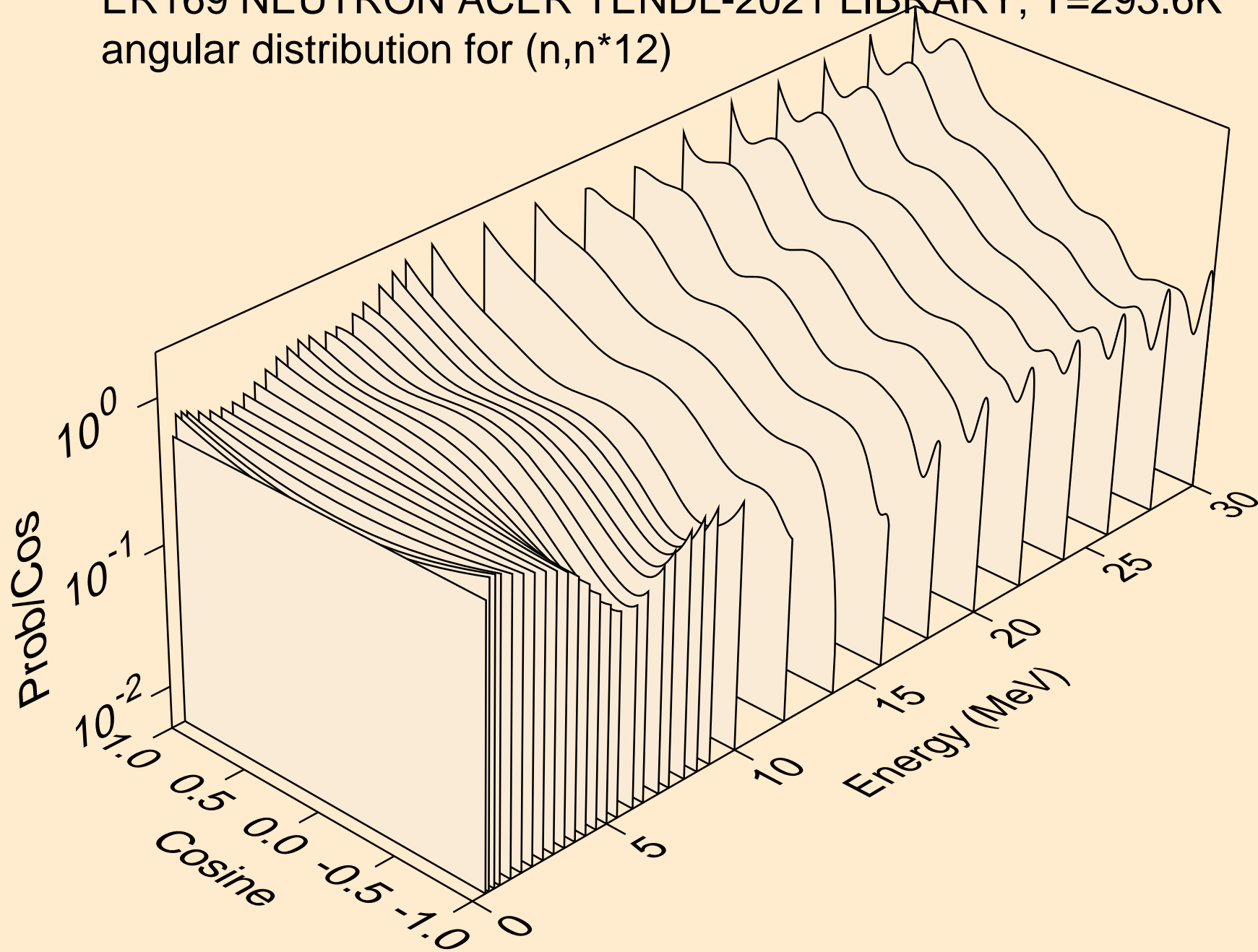




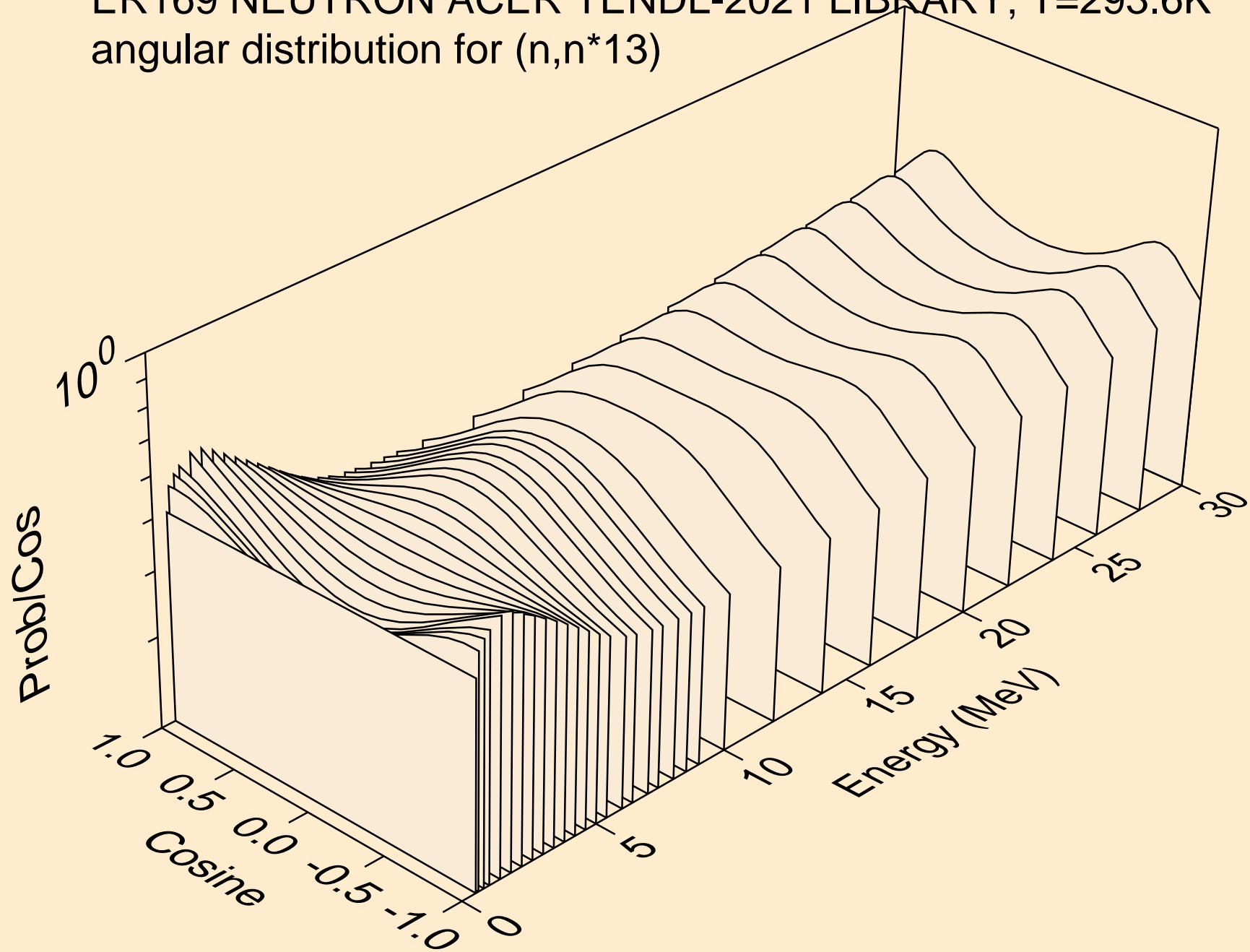
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angular distribution for (n,n\*11)



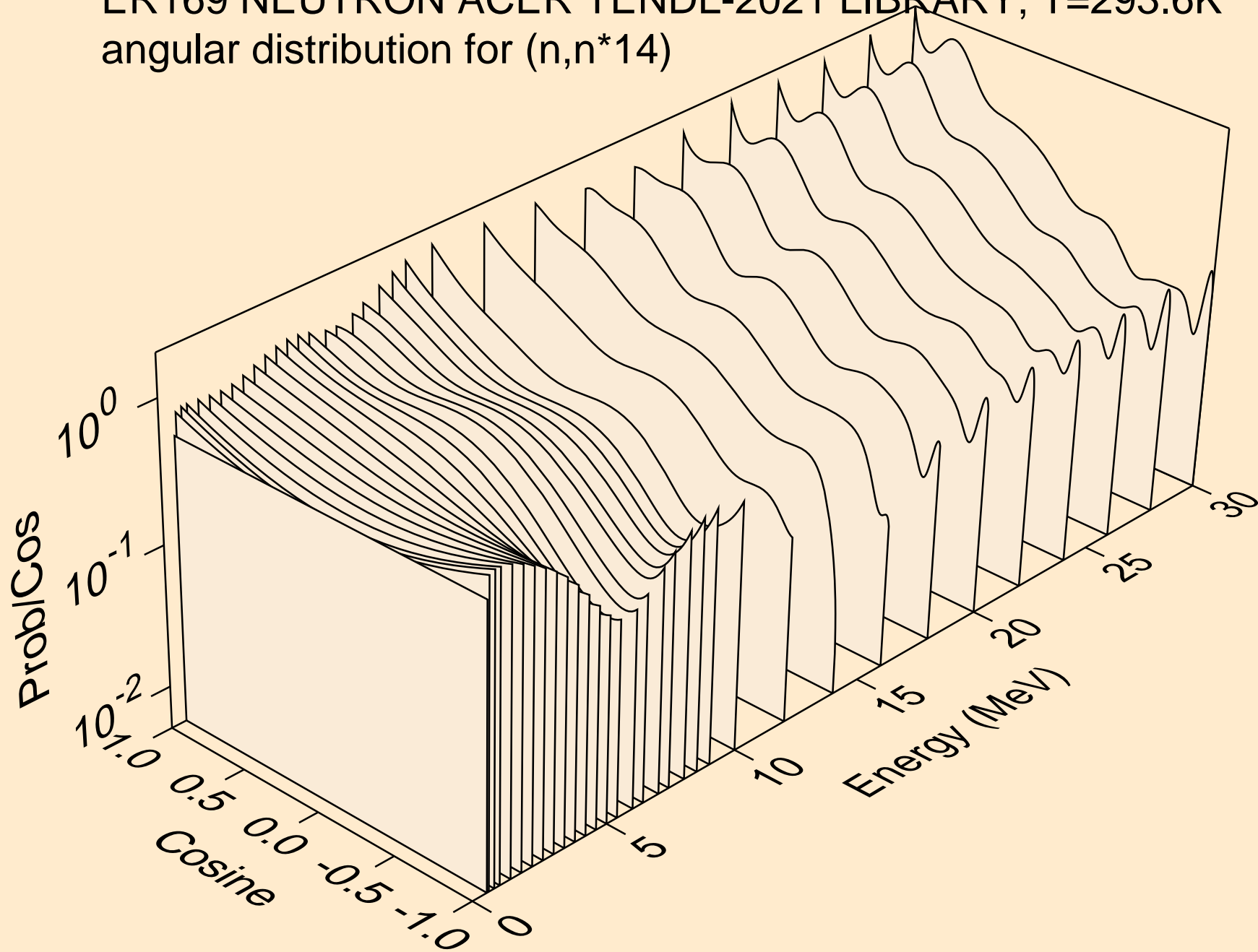
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angular distribution for (n,n\*12)



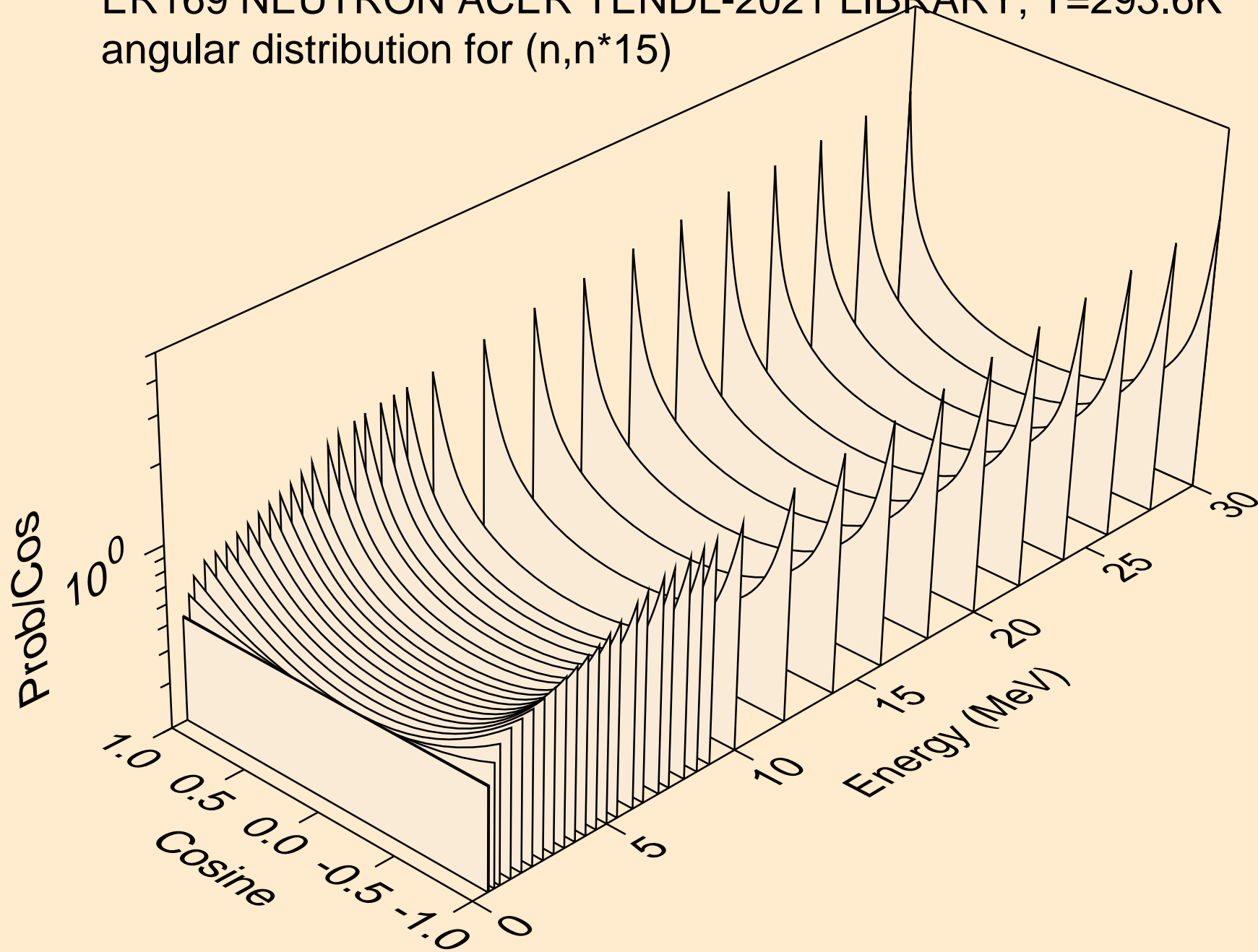
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angular distribution for (n,n\*13)



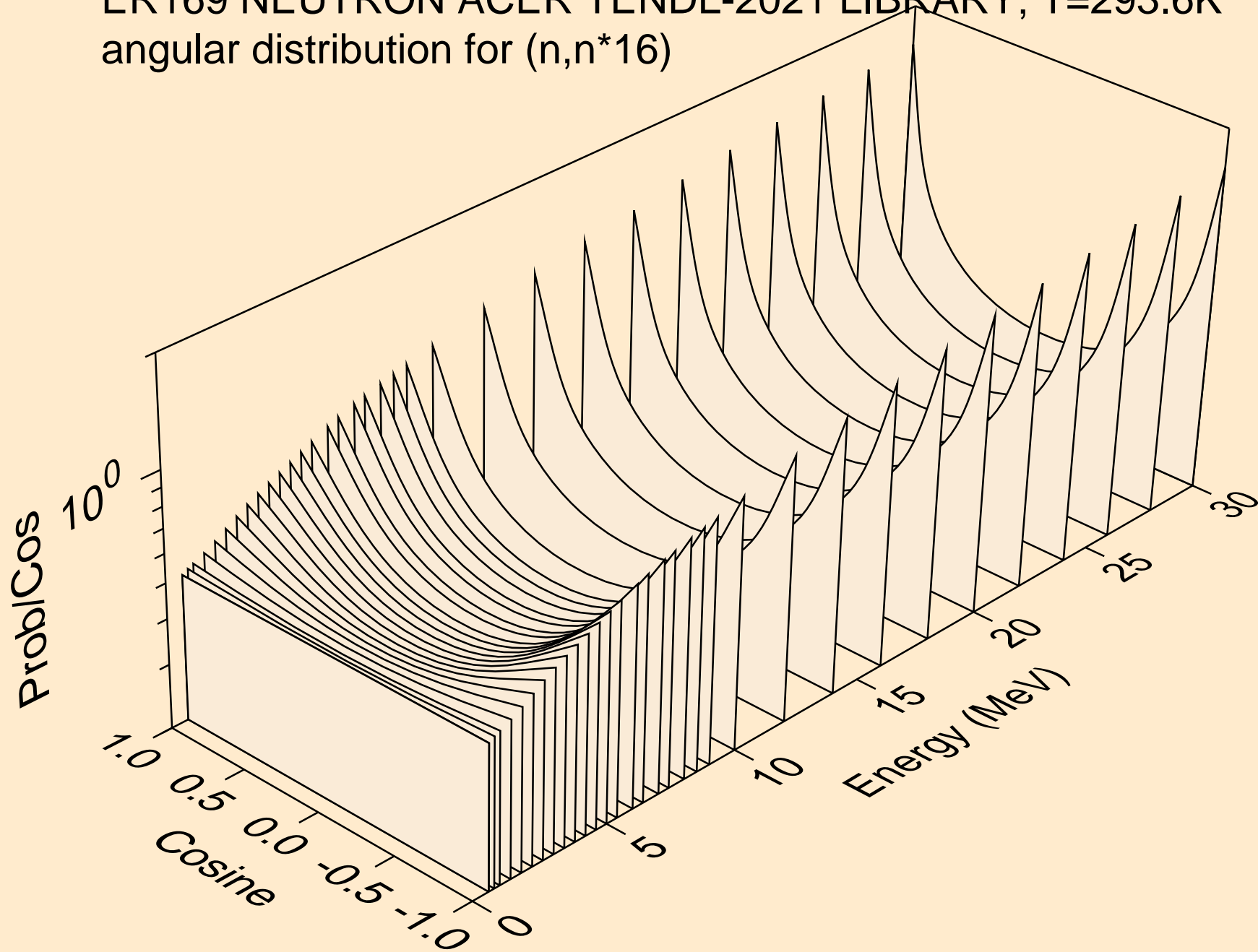
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angular distribution for (n,n\*14)



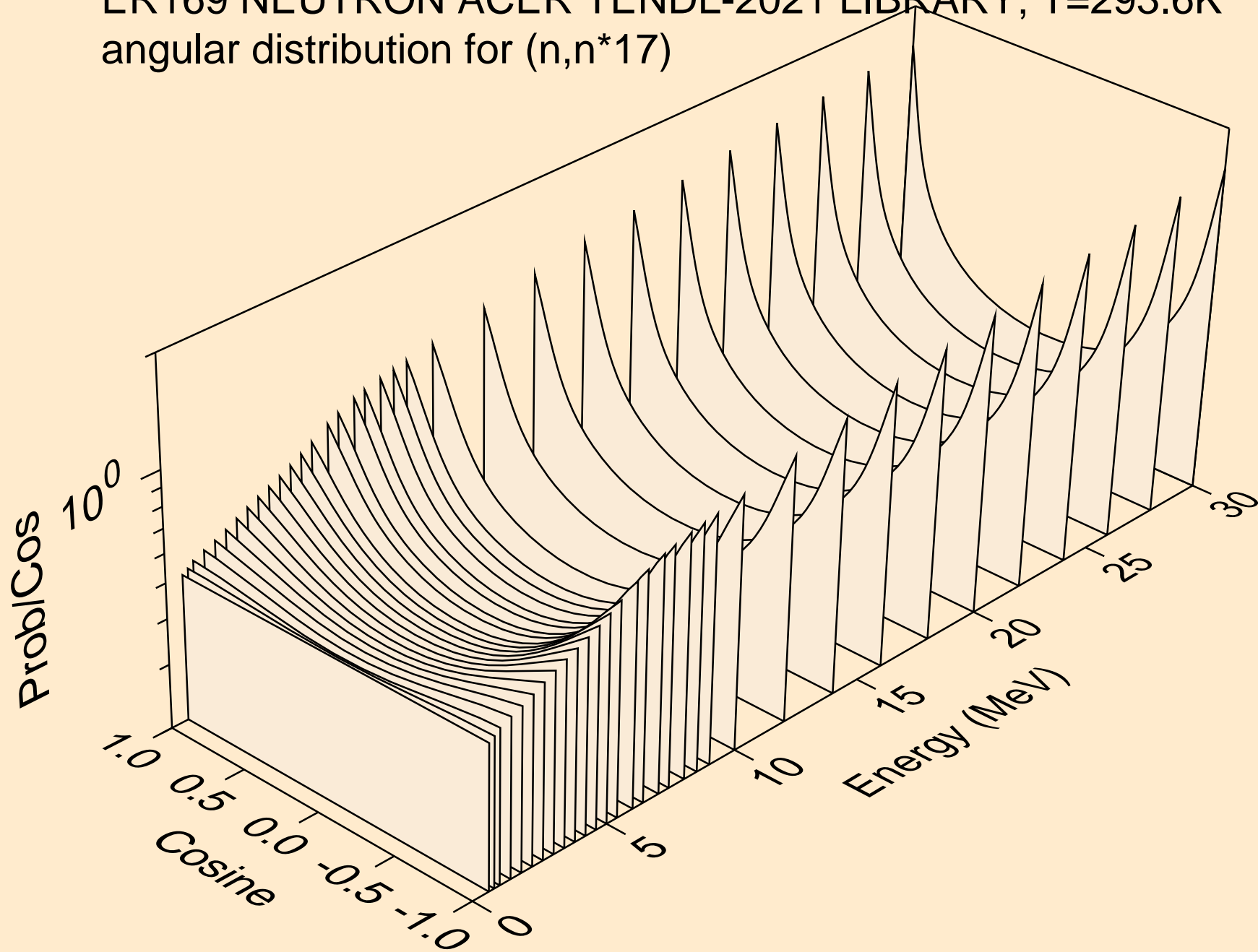
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angular distribution for (n,n\*15)



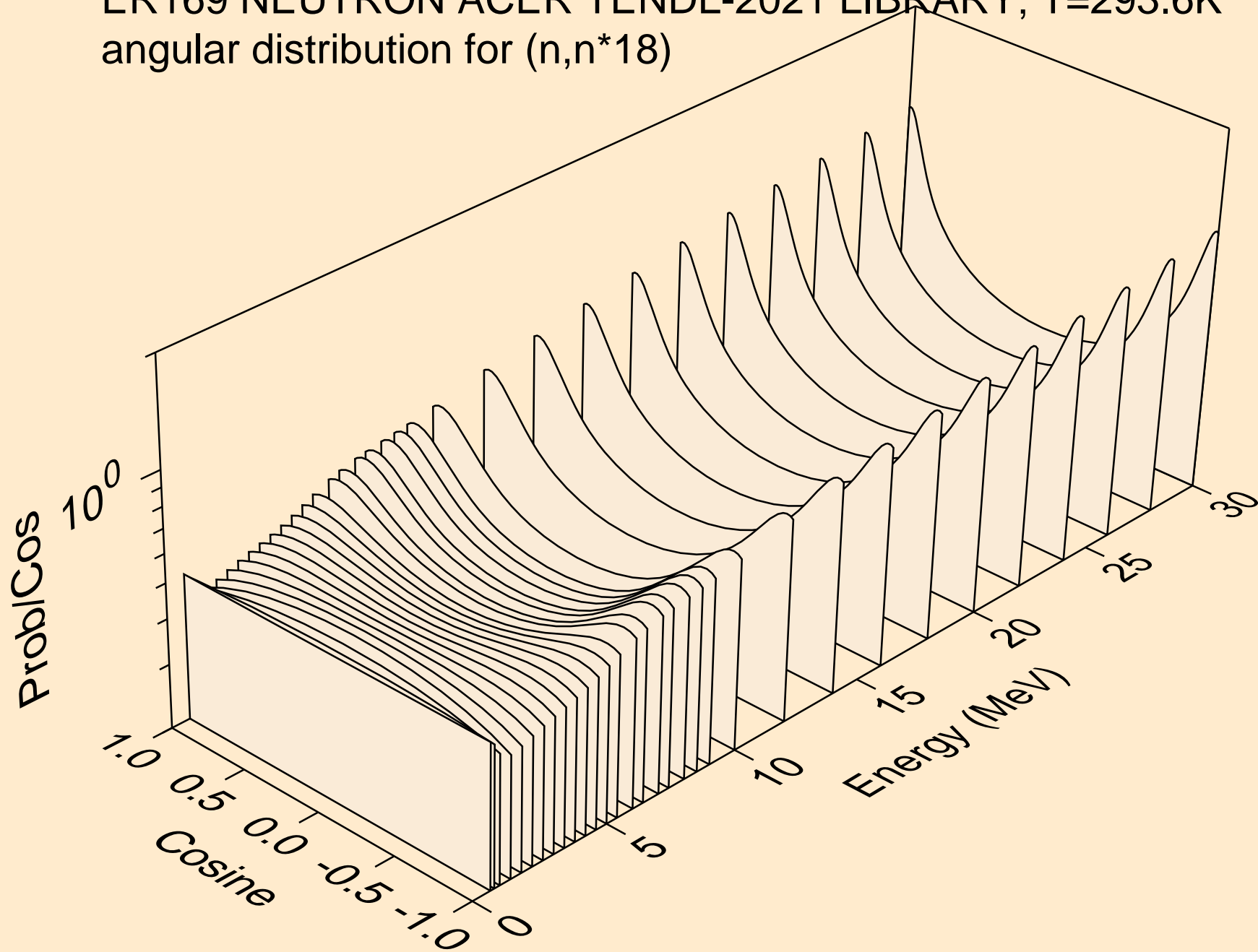
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

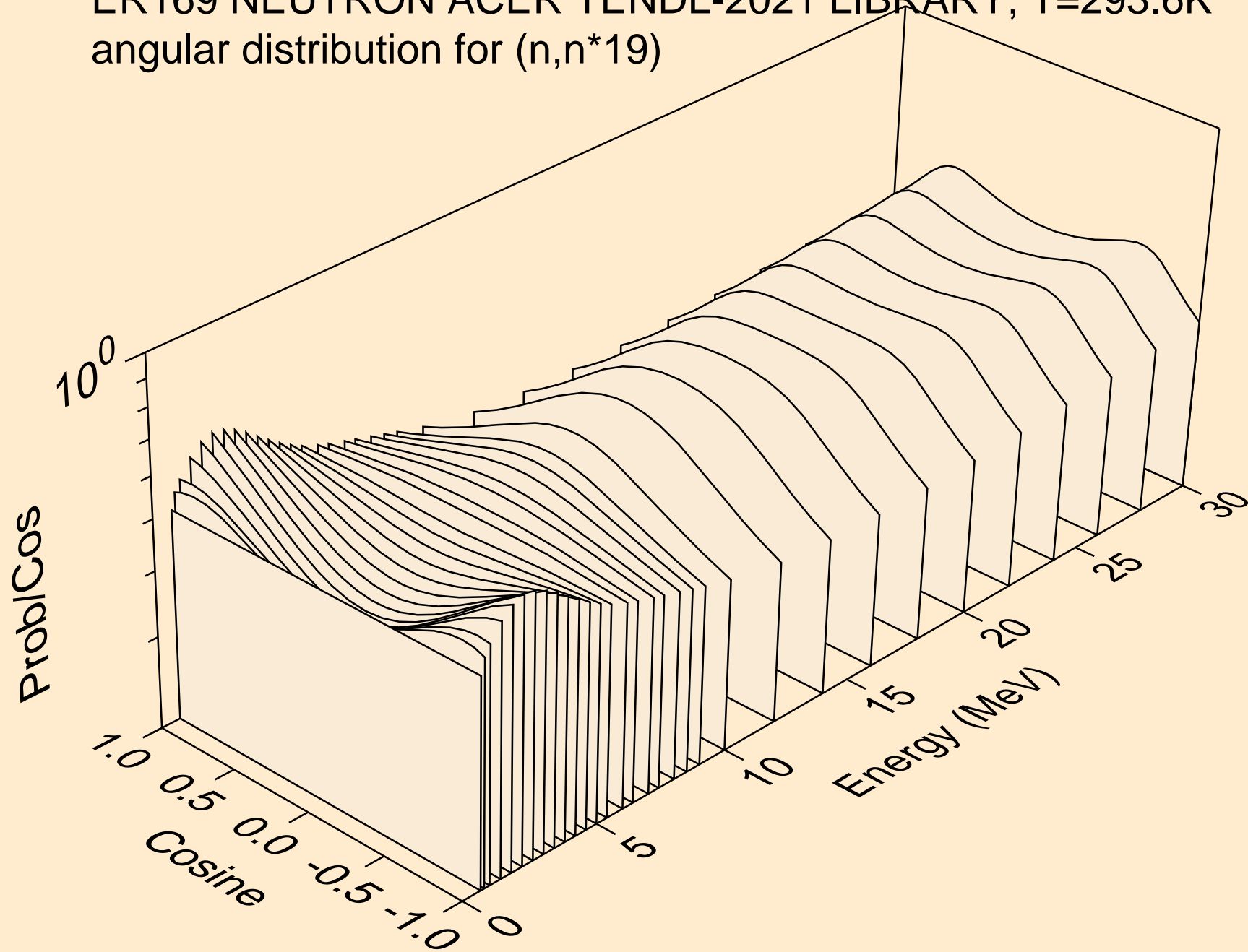


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)

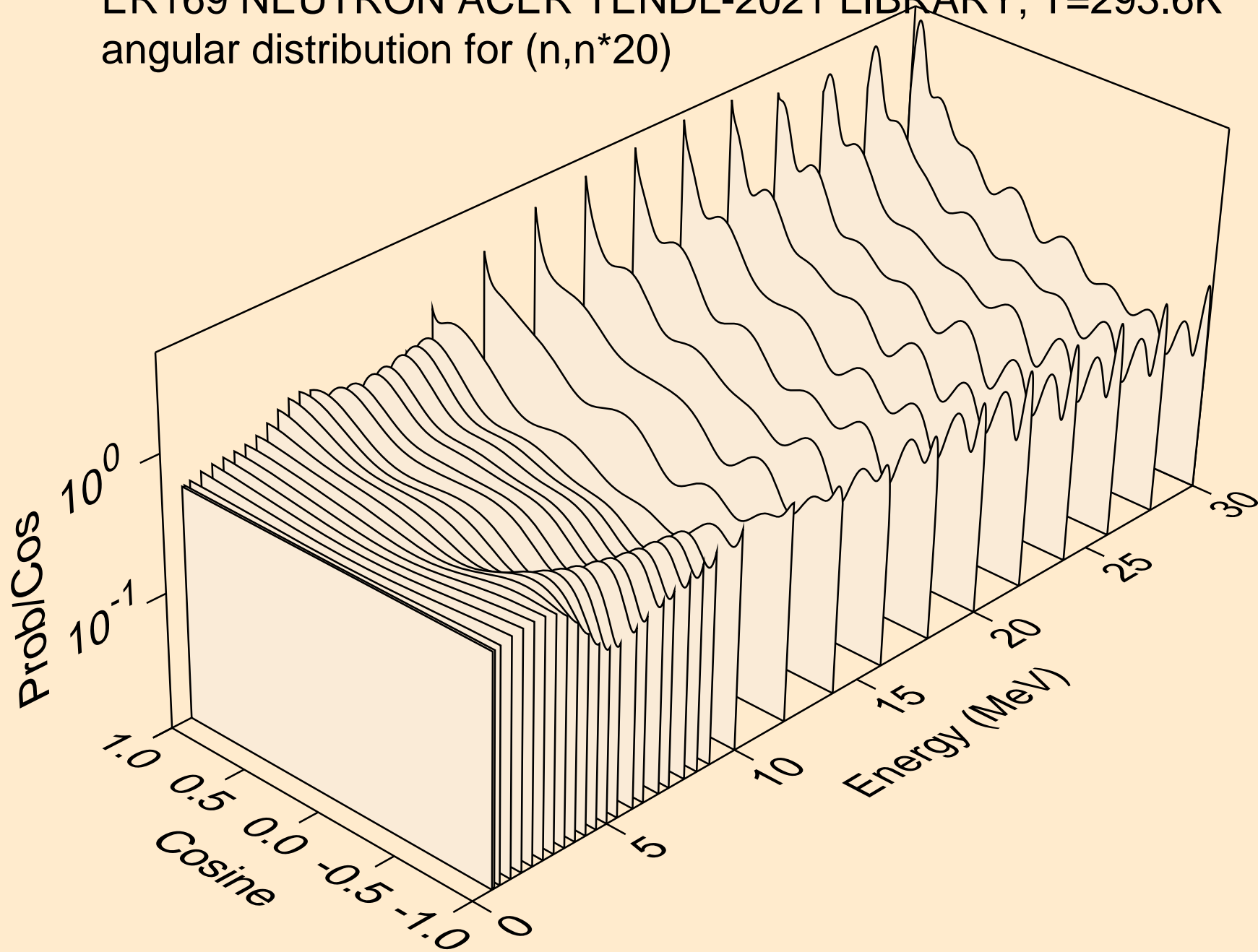




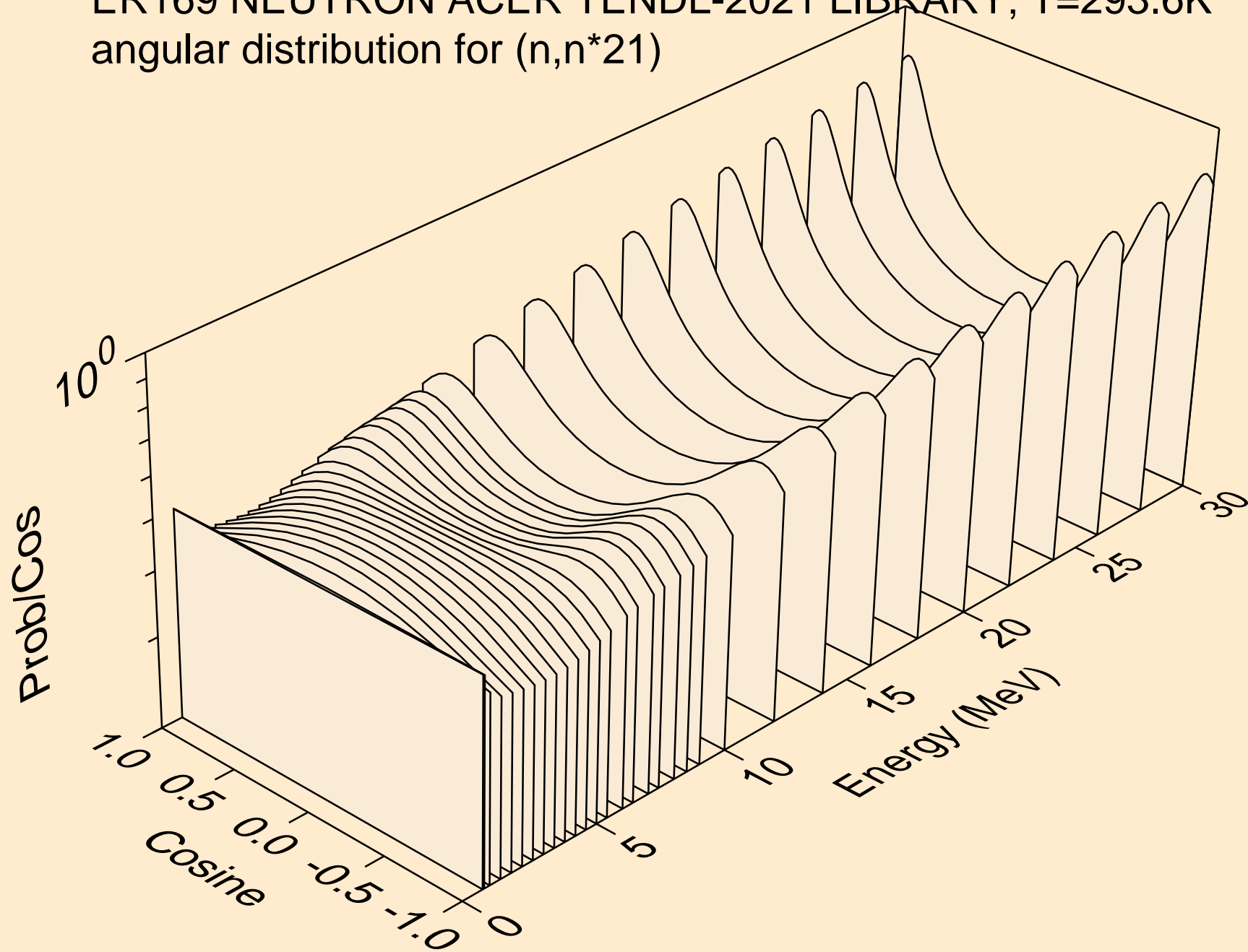
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angular distribution for (n,n\*19)



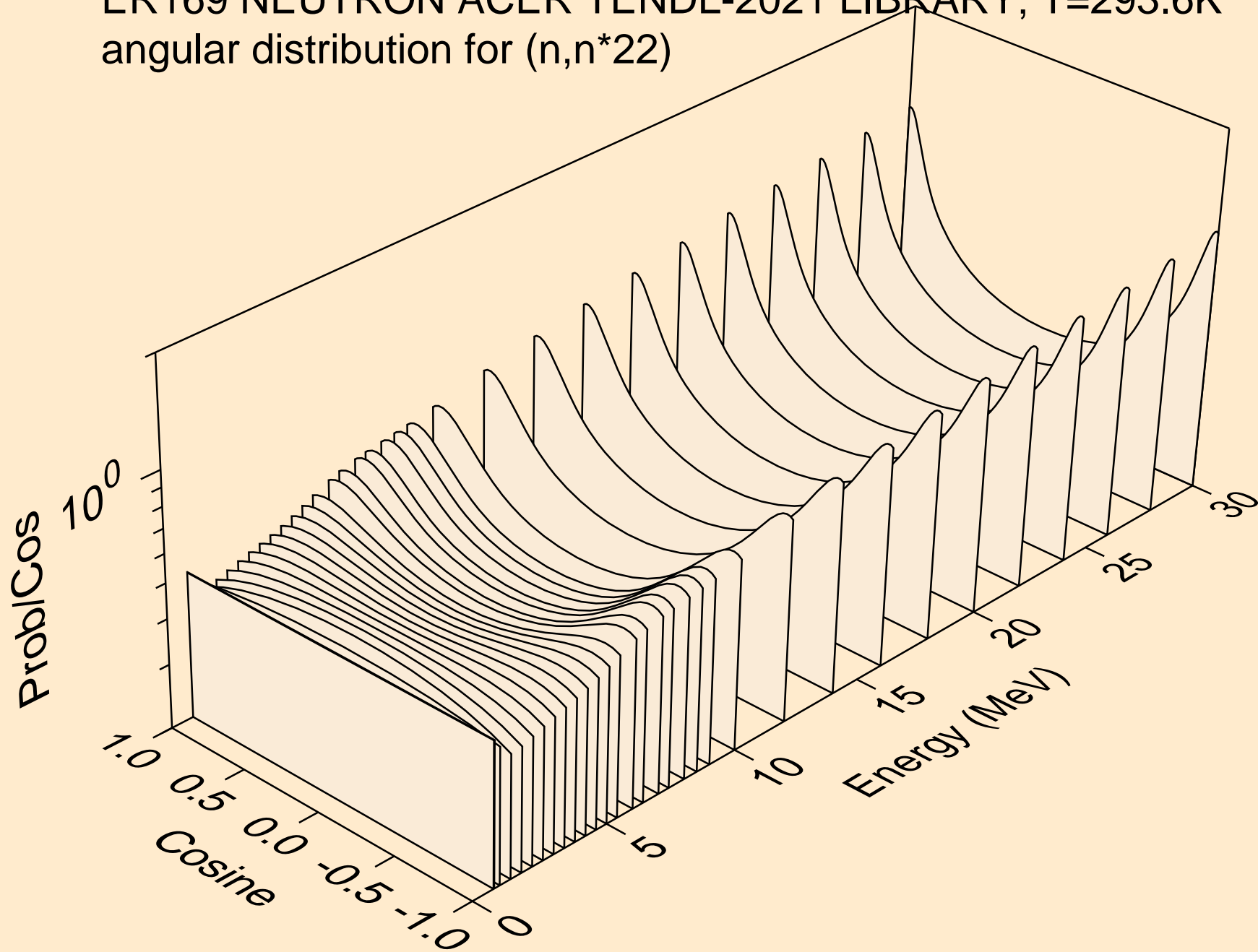
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angular distribution for (n,n\*20)



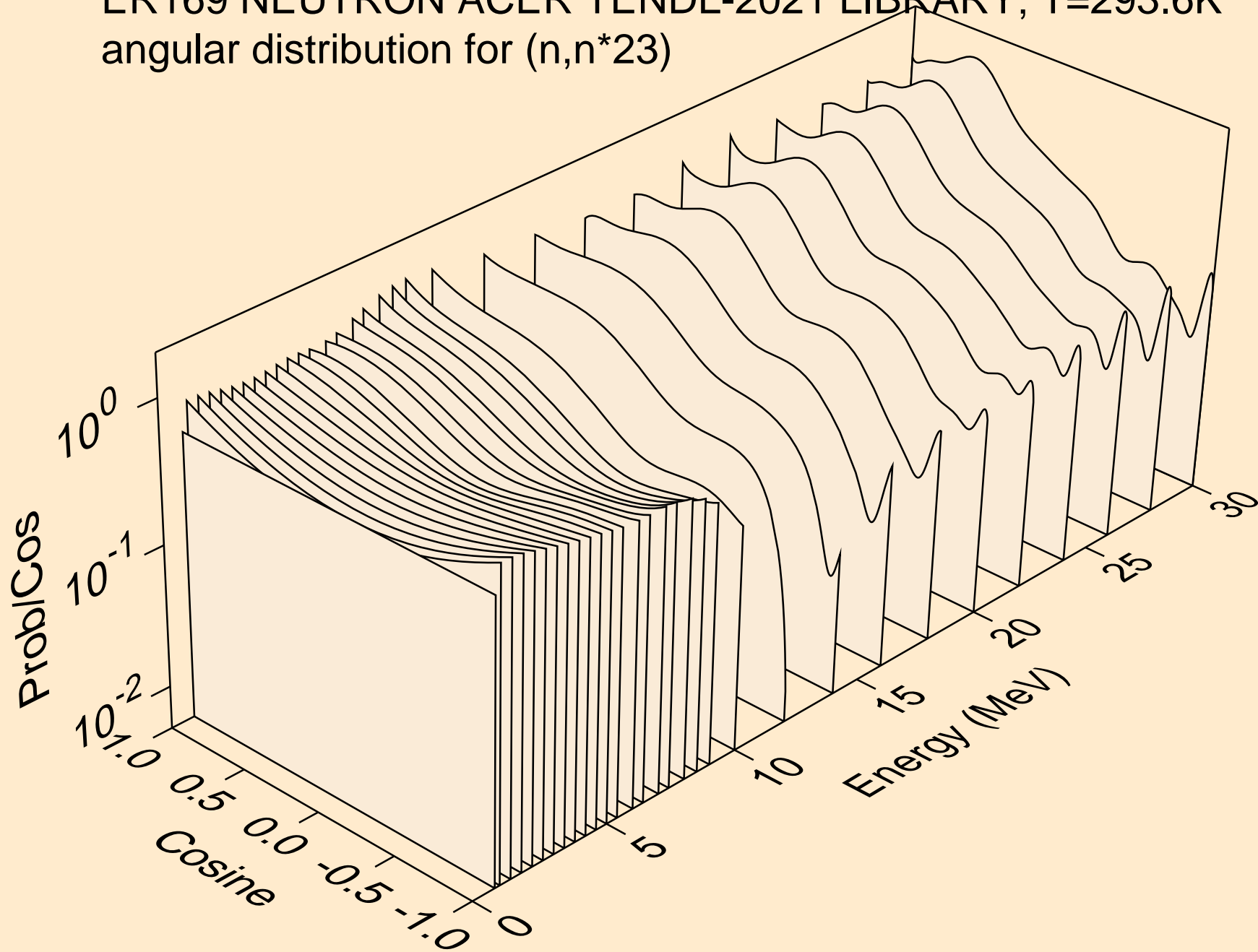
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angular distribution for (n,n\*21)



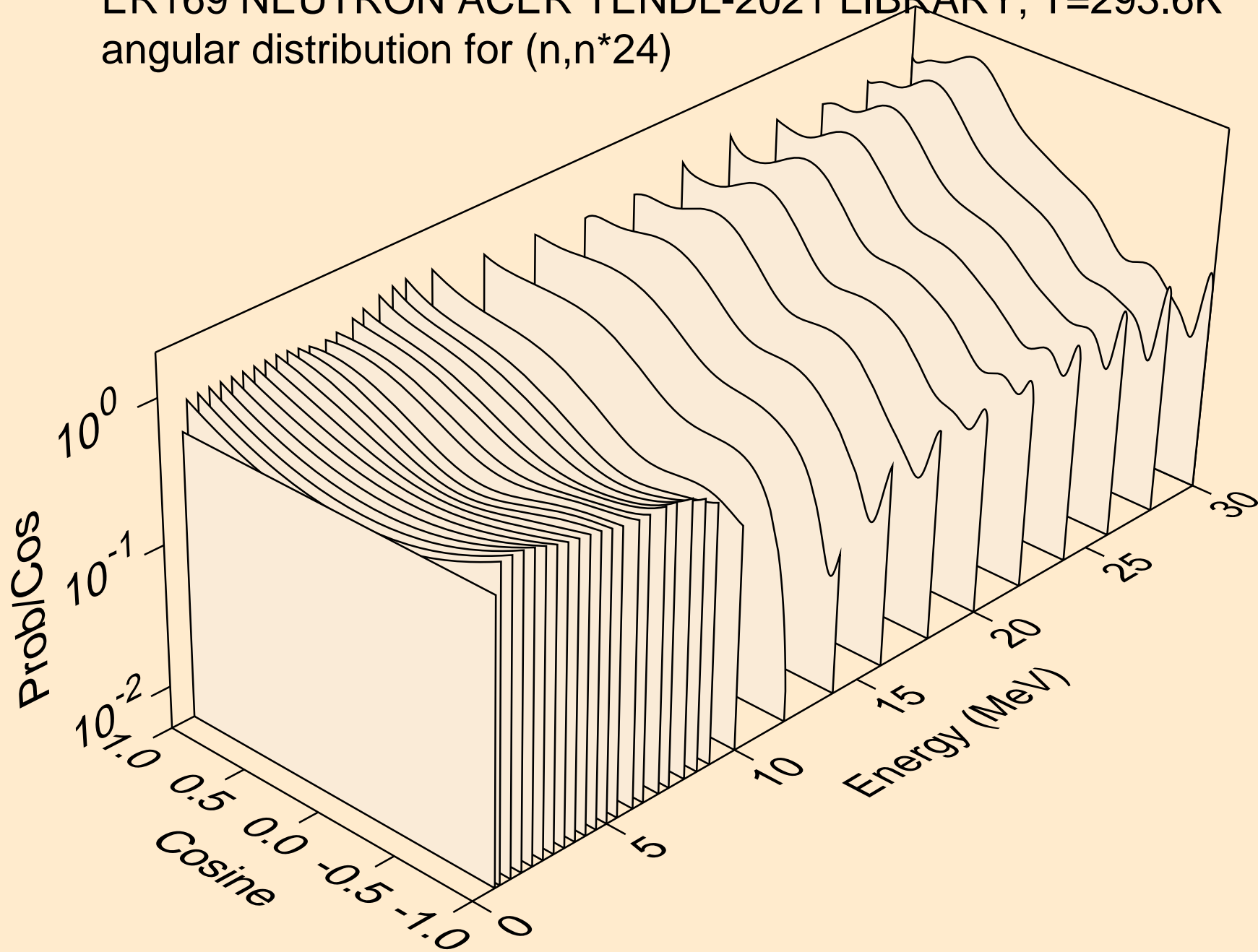
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angular distribution for (n,n\*22)



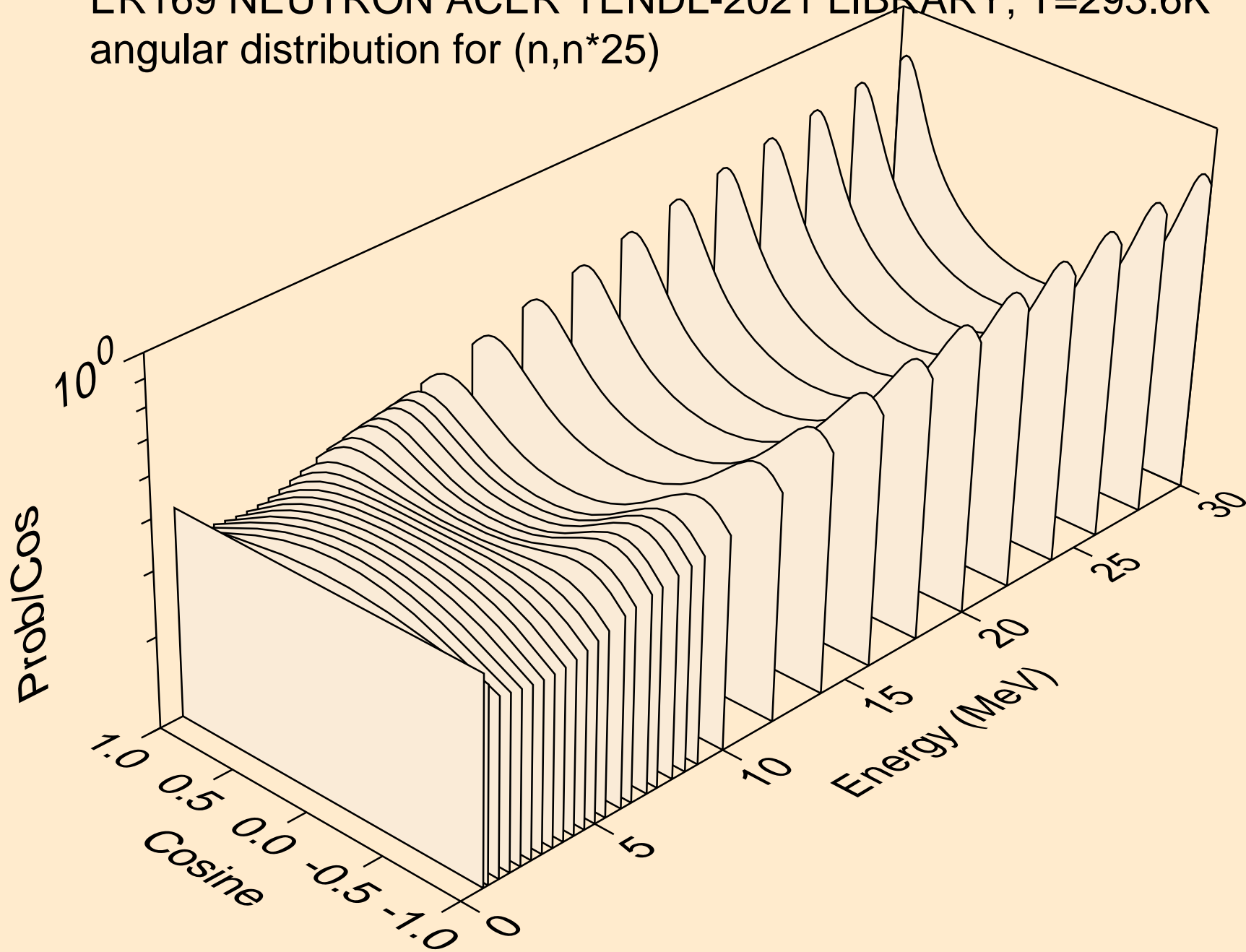
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angular distribution for (n,n\*23)



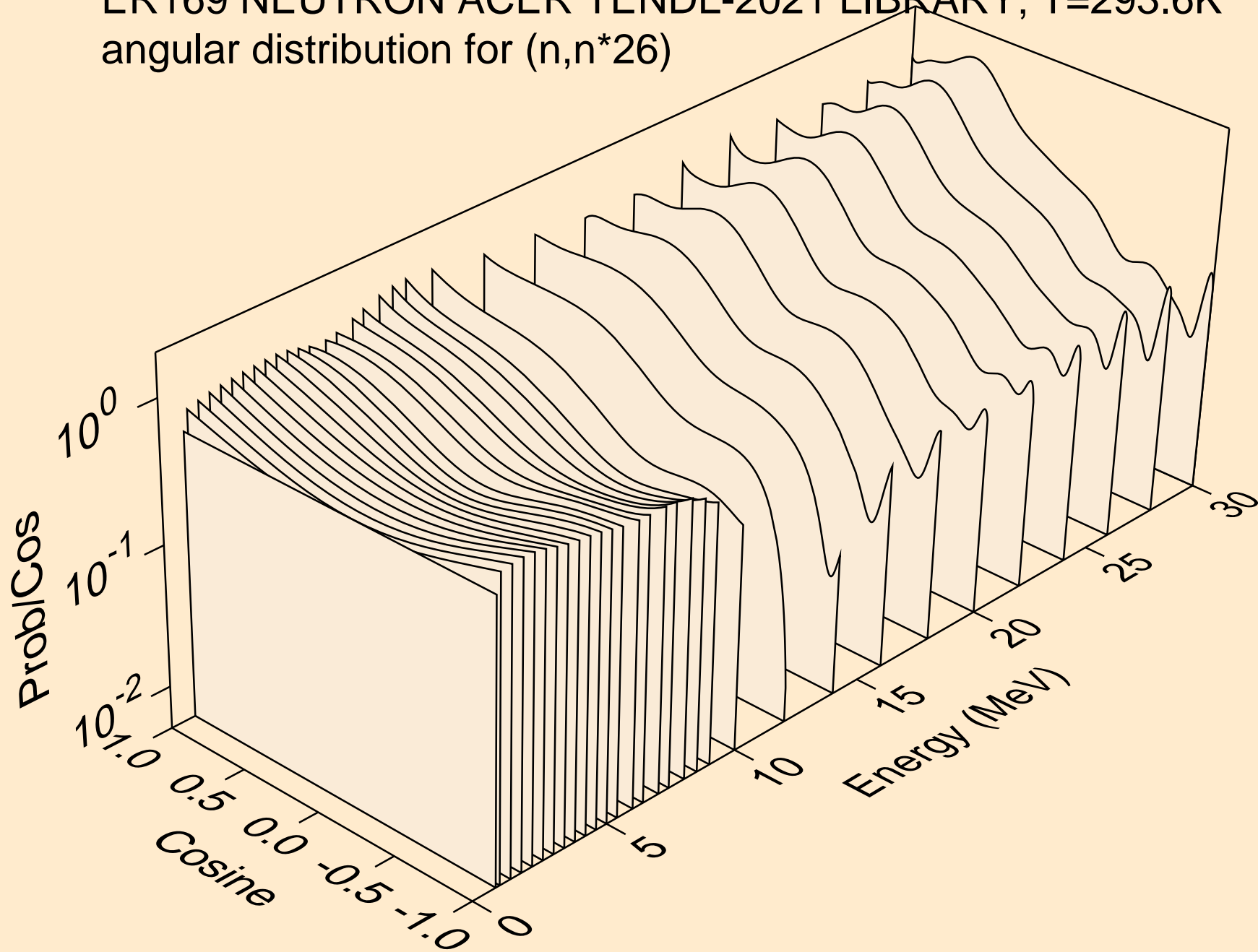
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

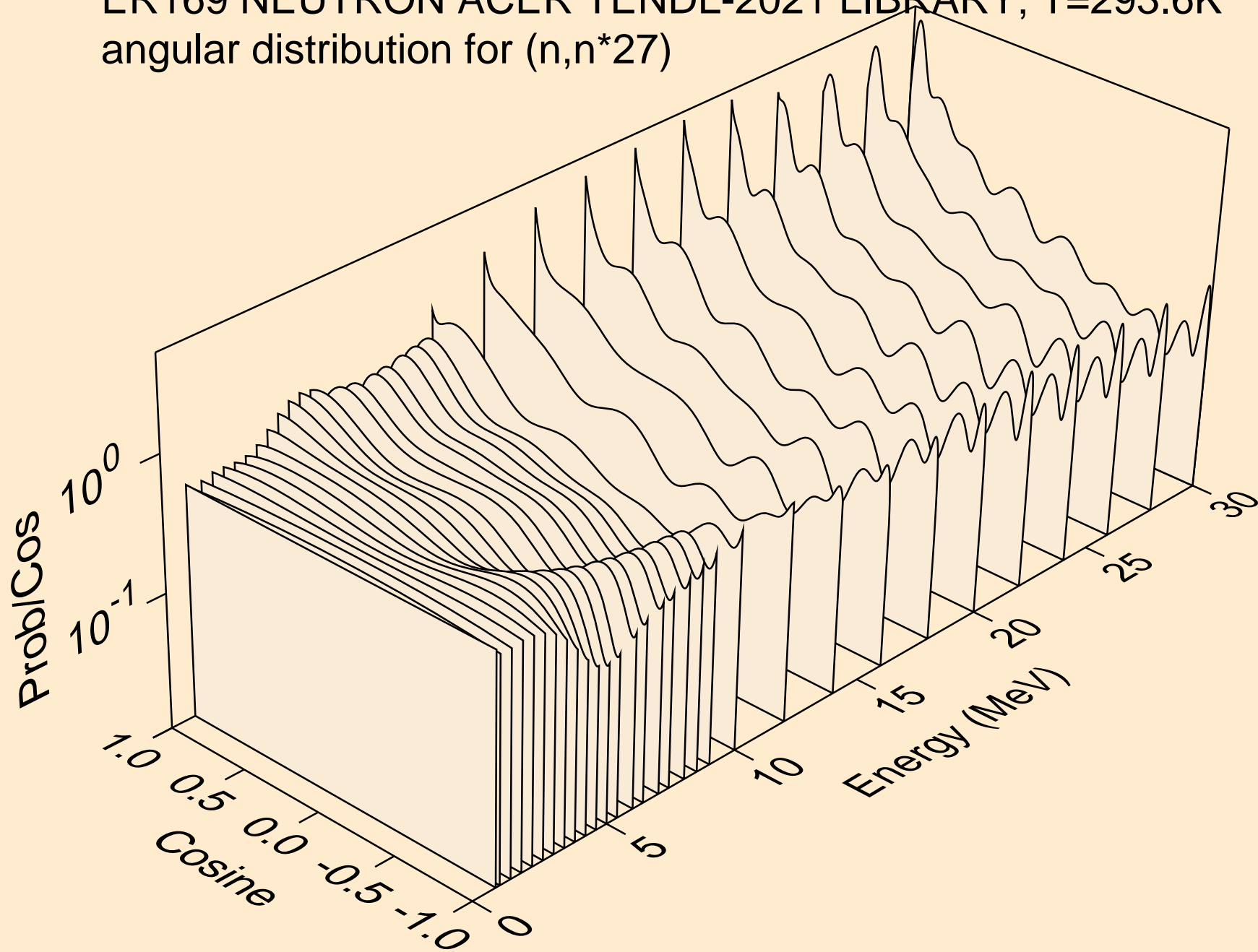


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)

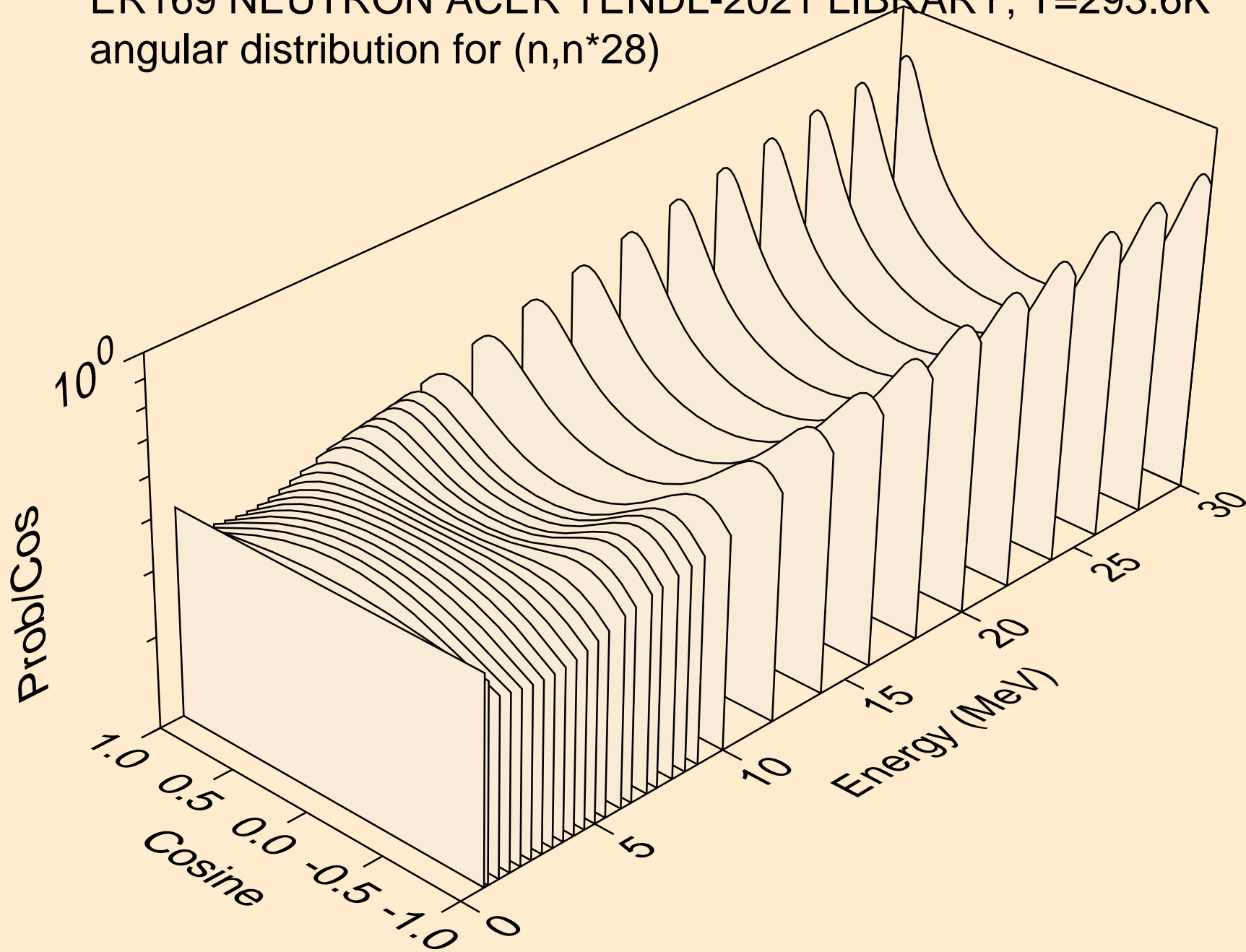




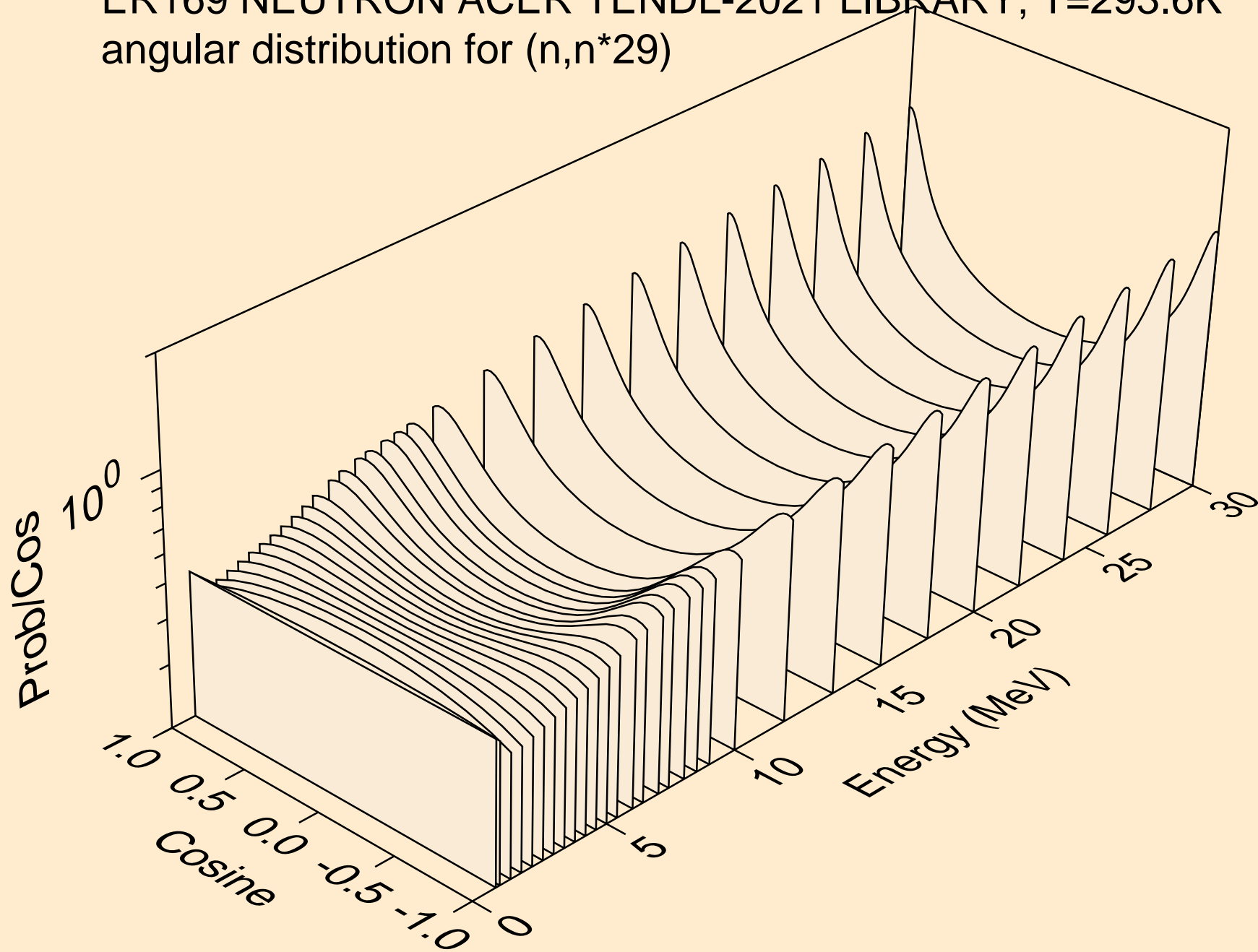
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



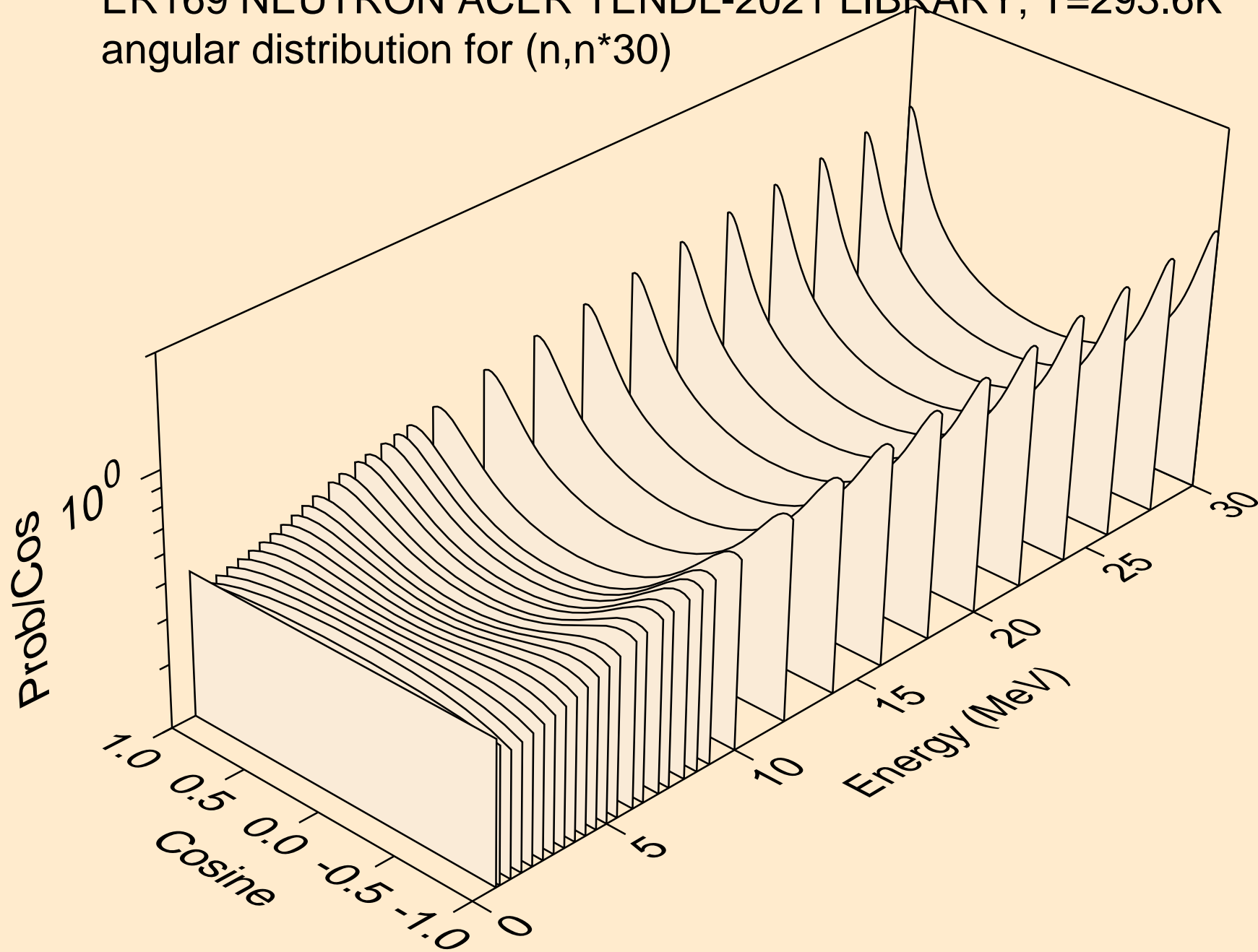
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



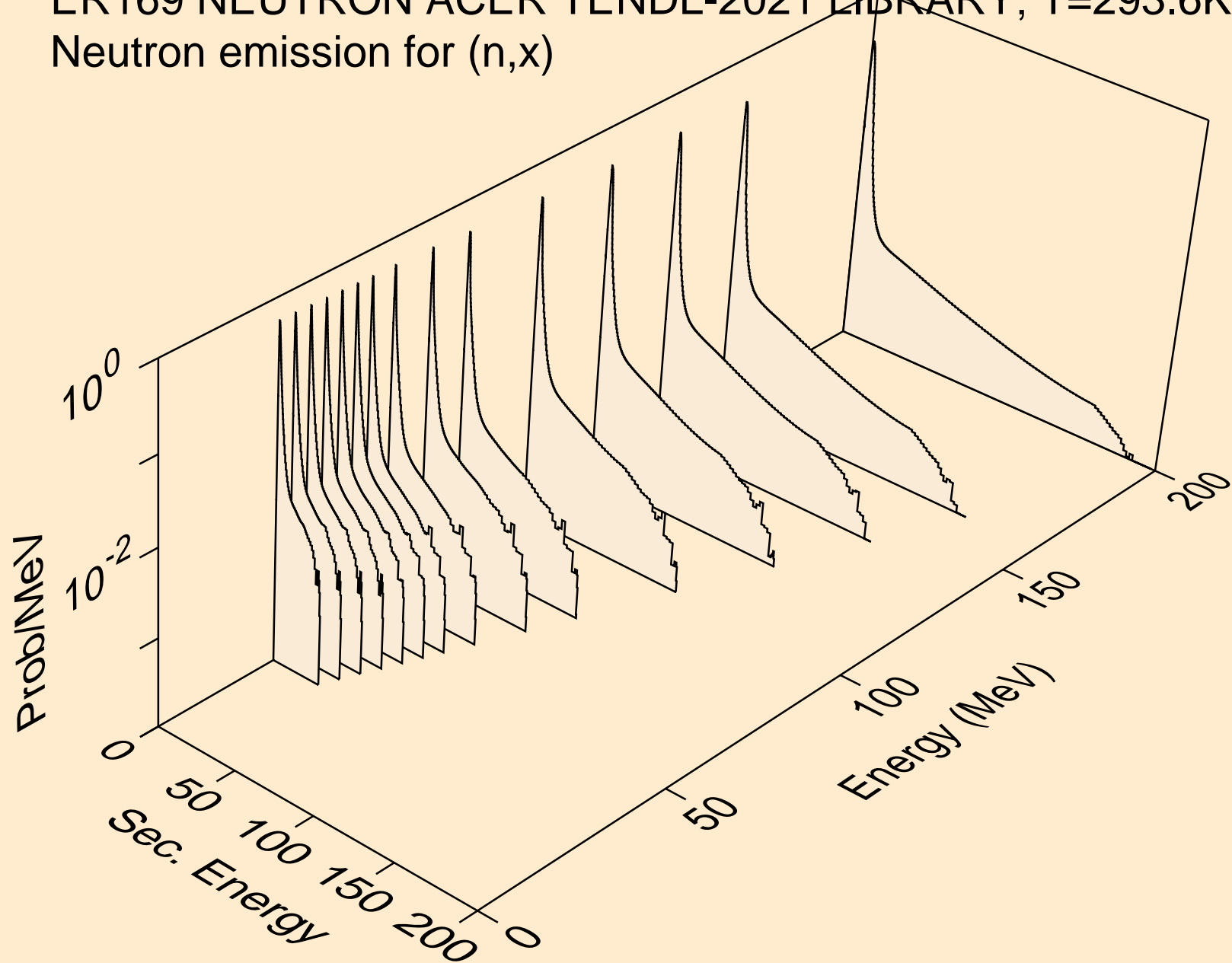
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



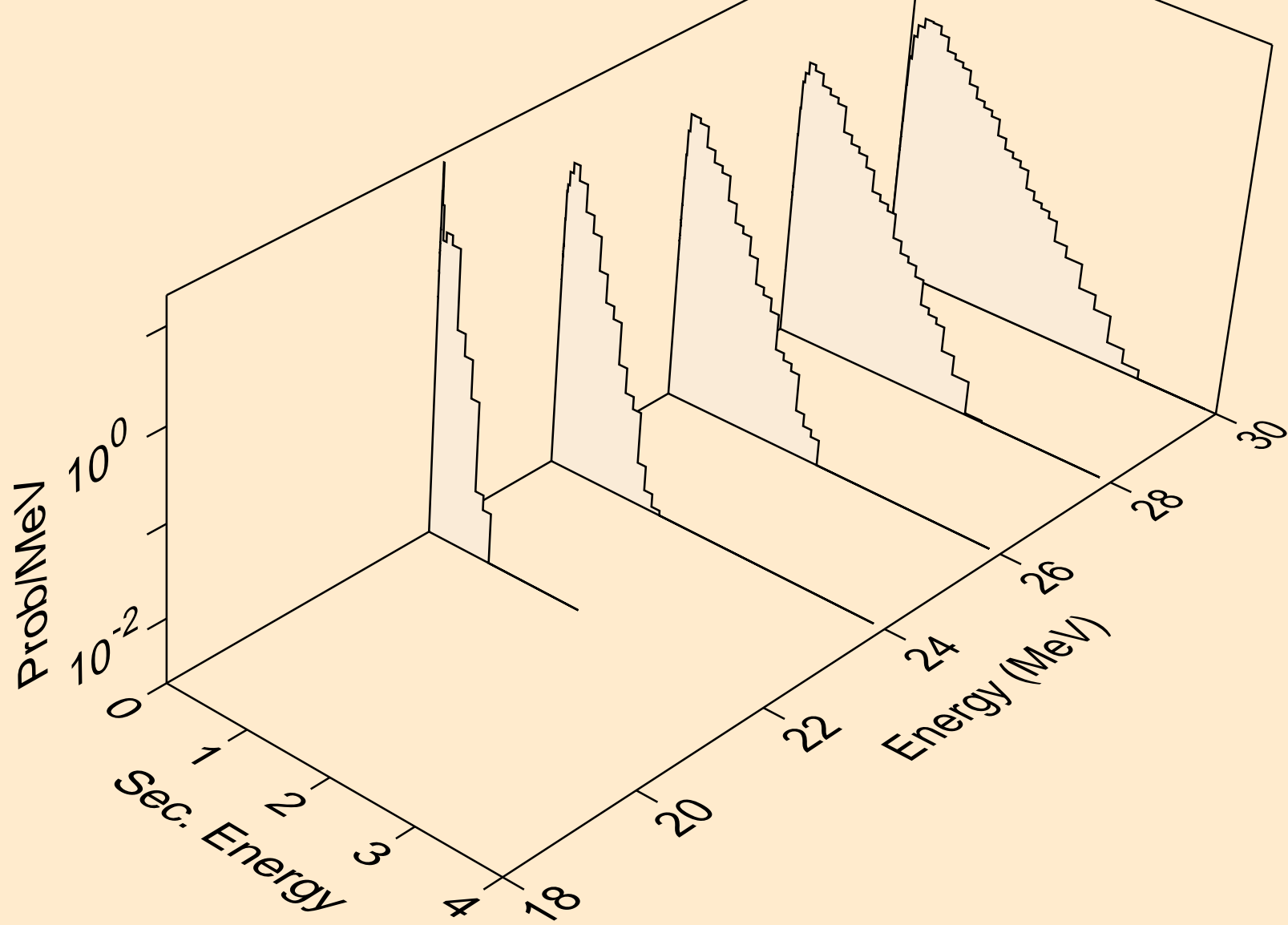
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angular distribution for (n,n\*30)



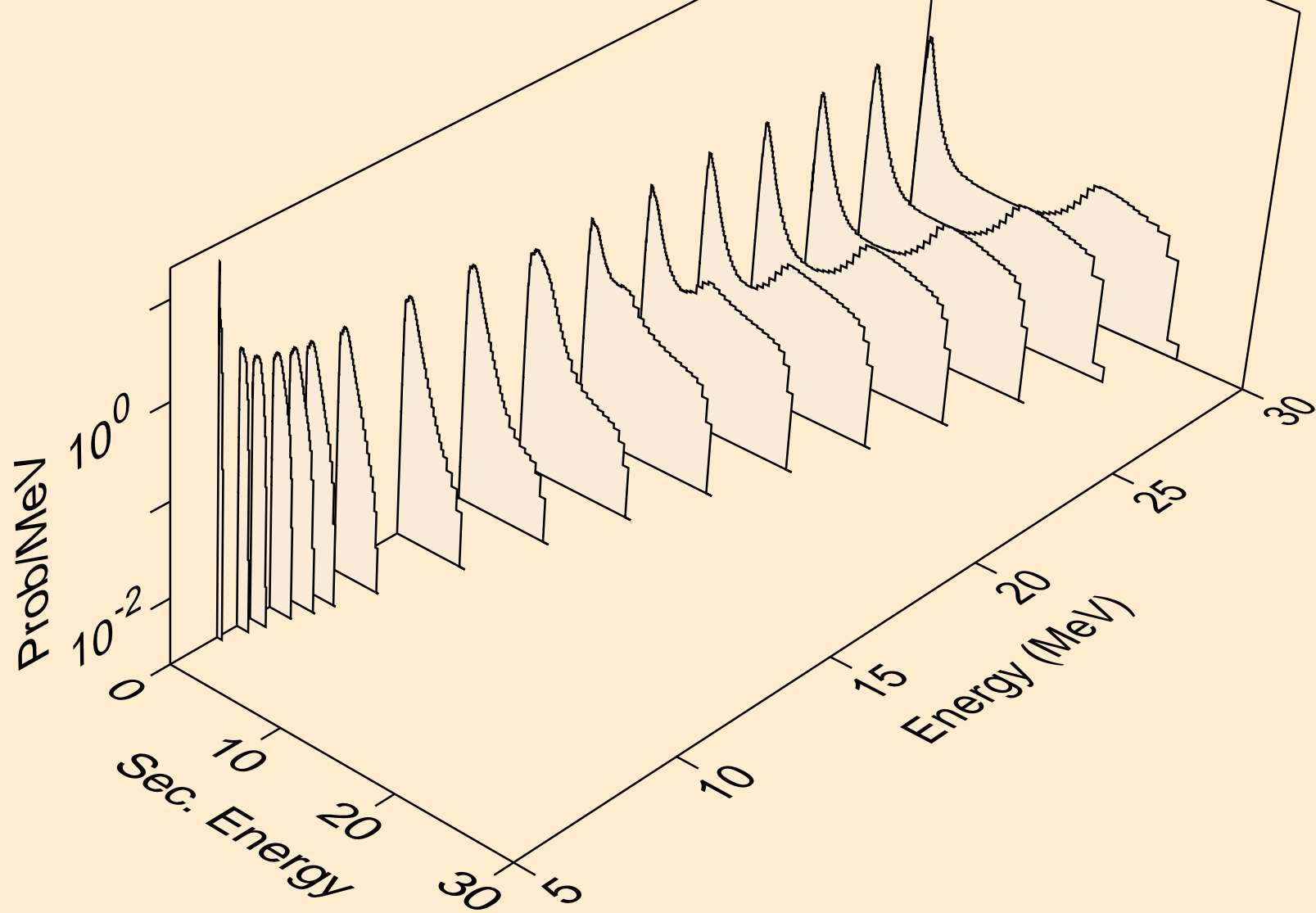
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



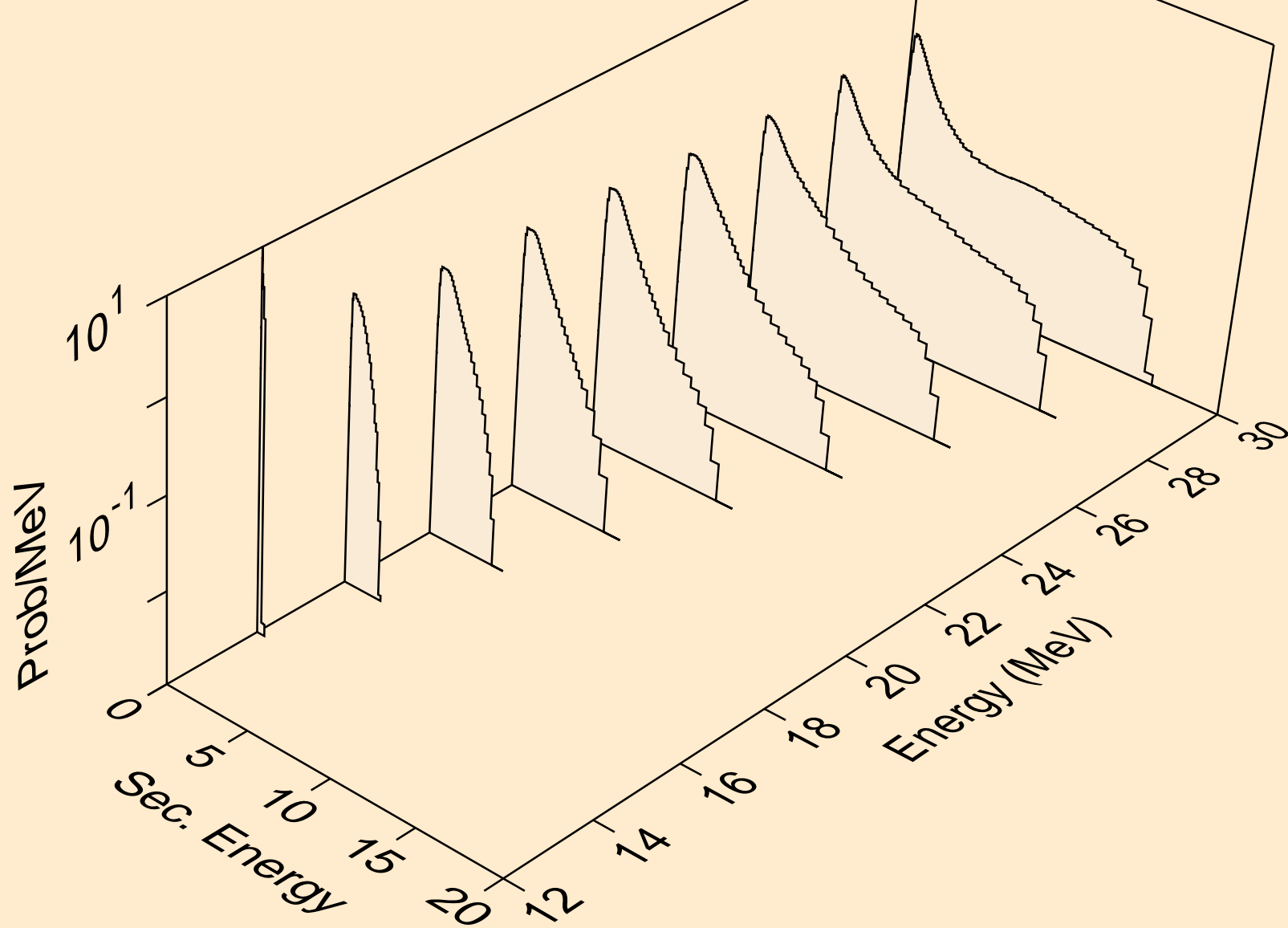
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

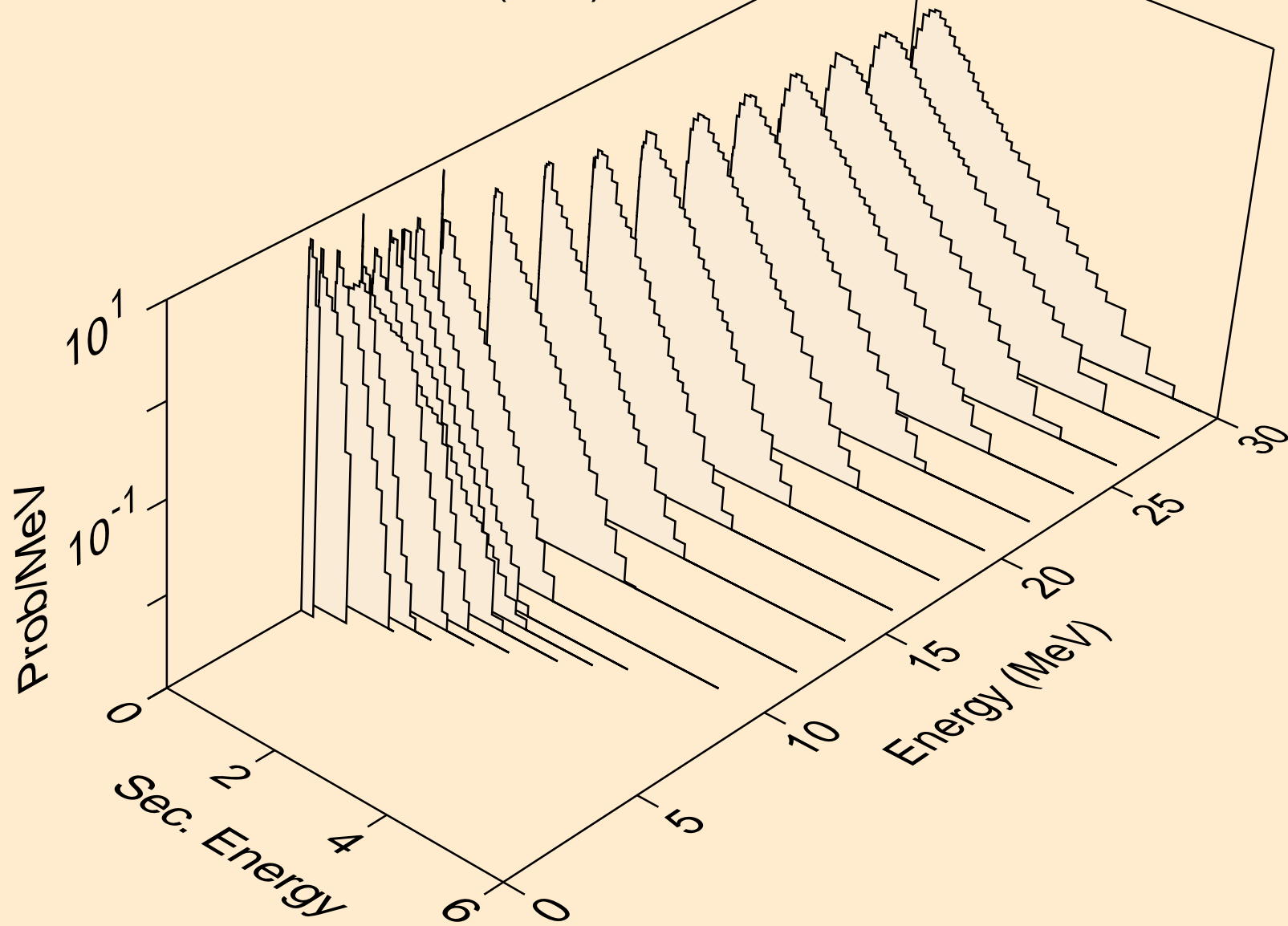


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)

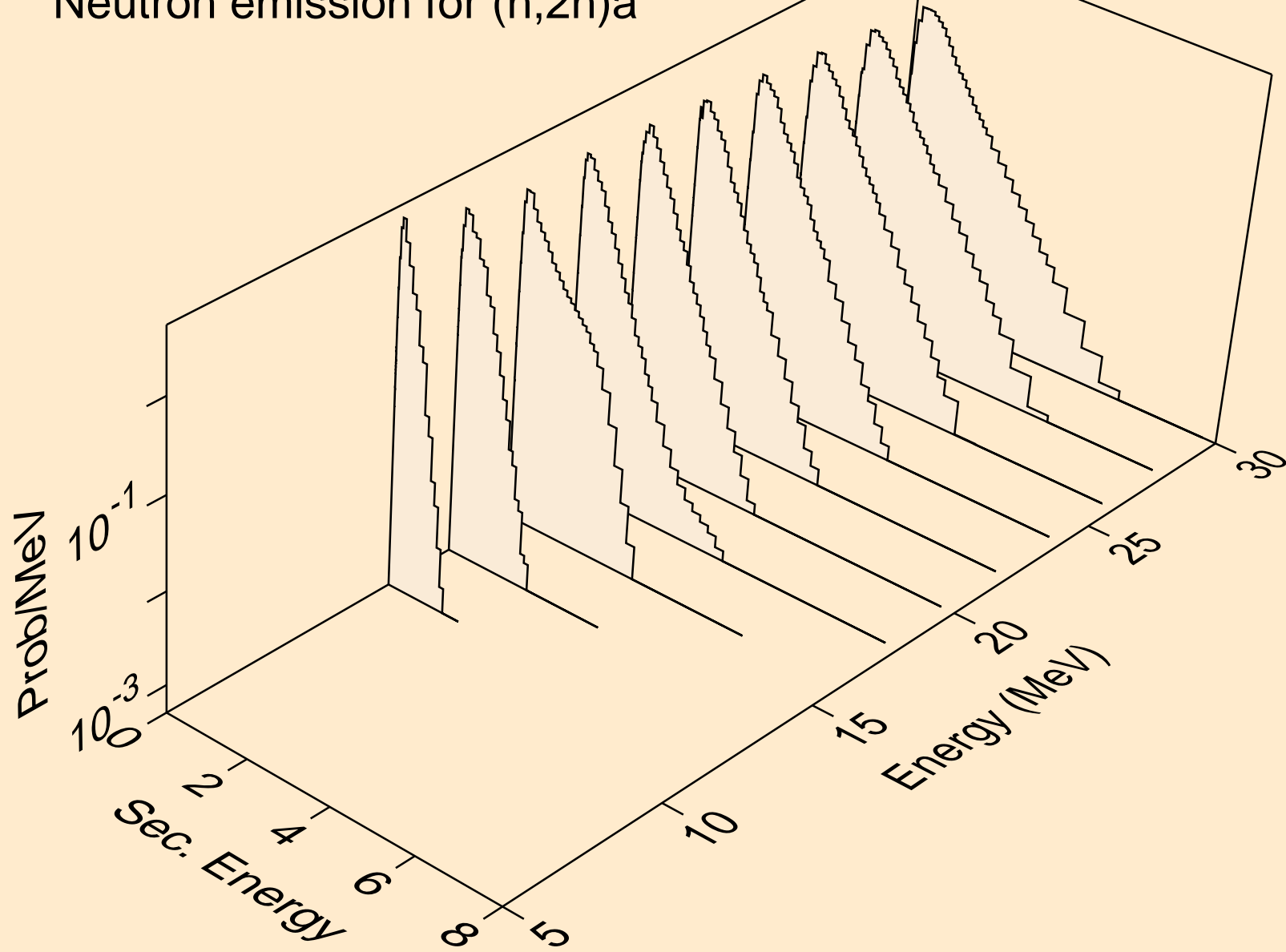




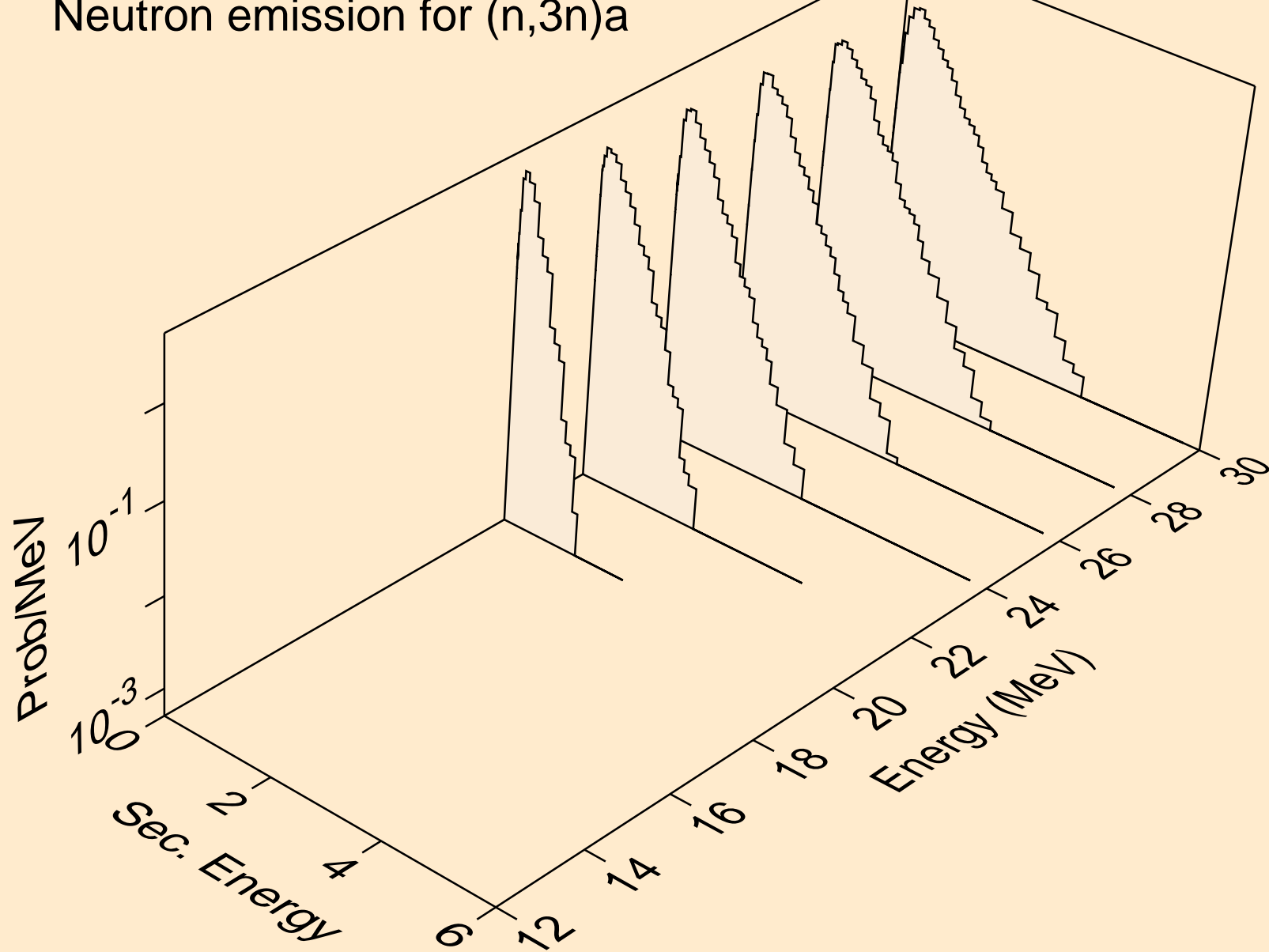
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



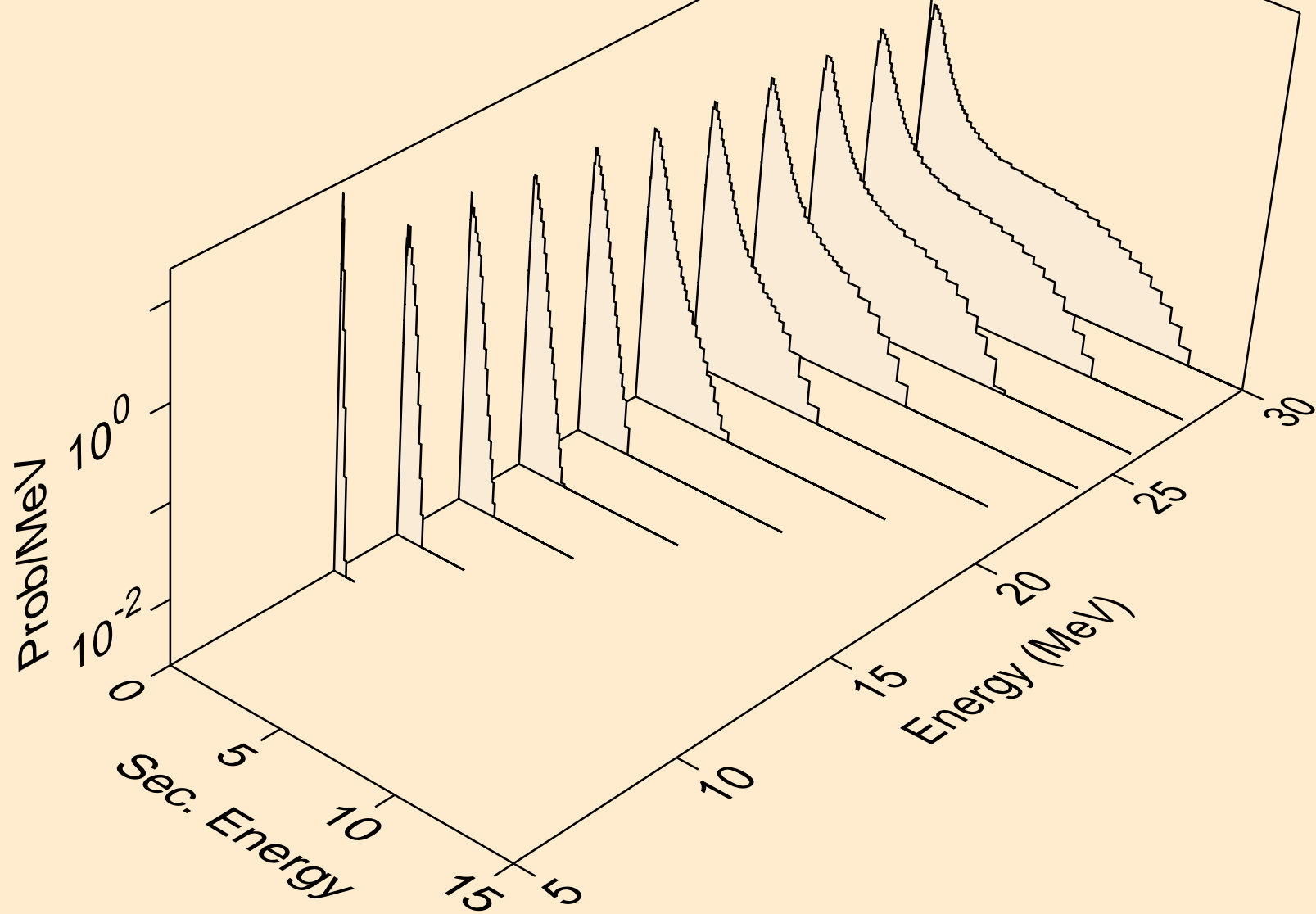
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



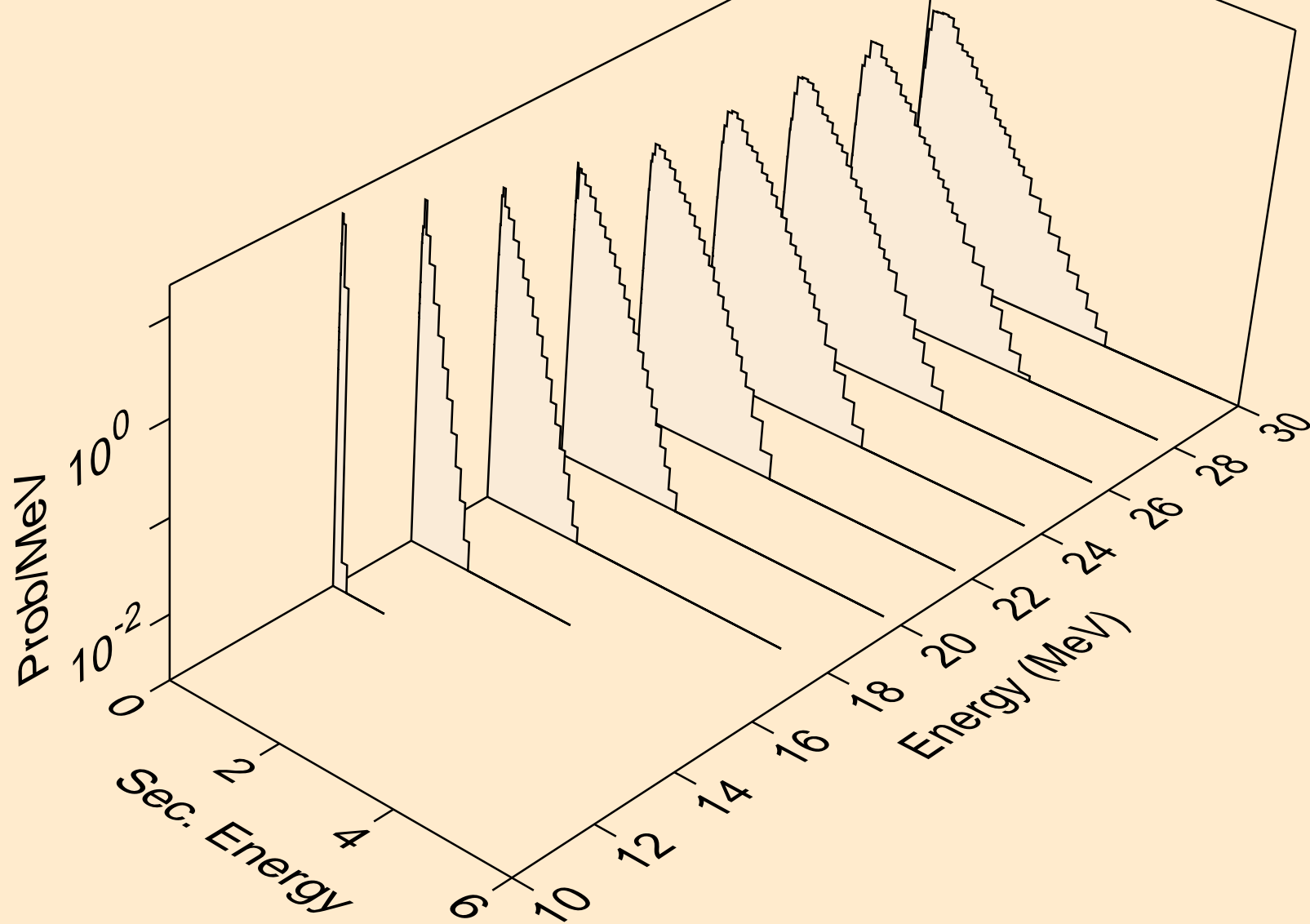
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



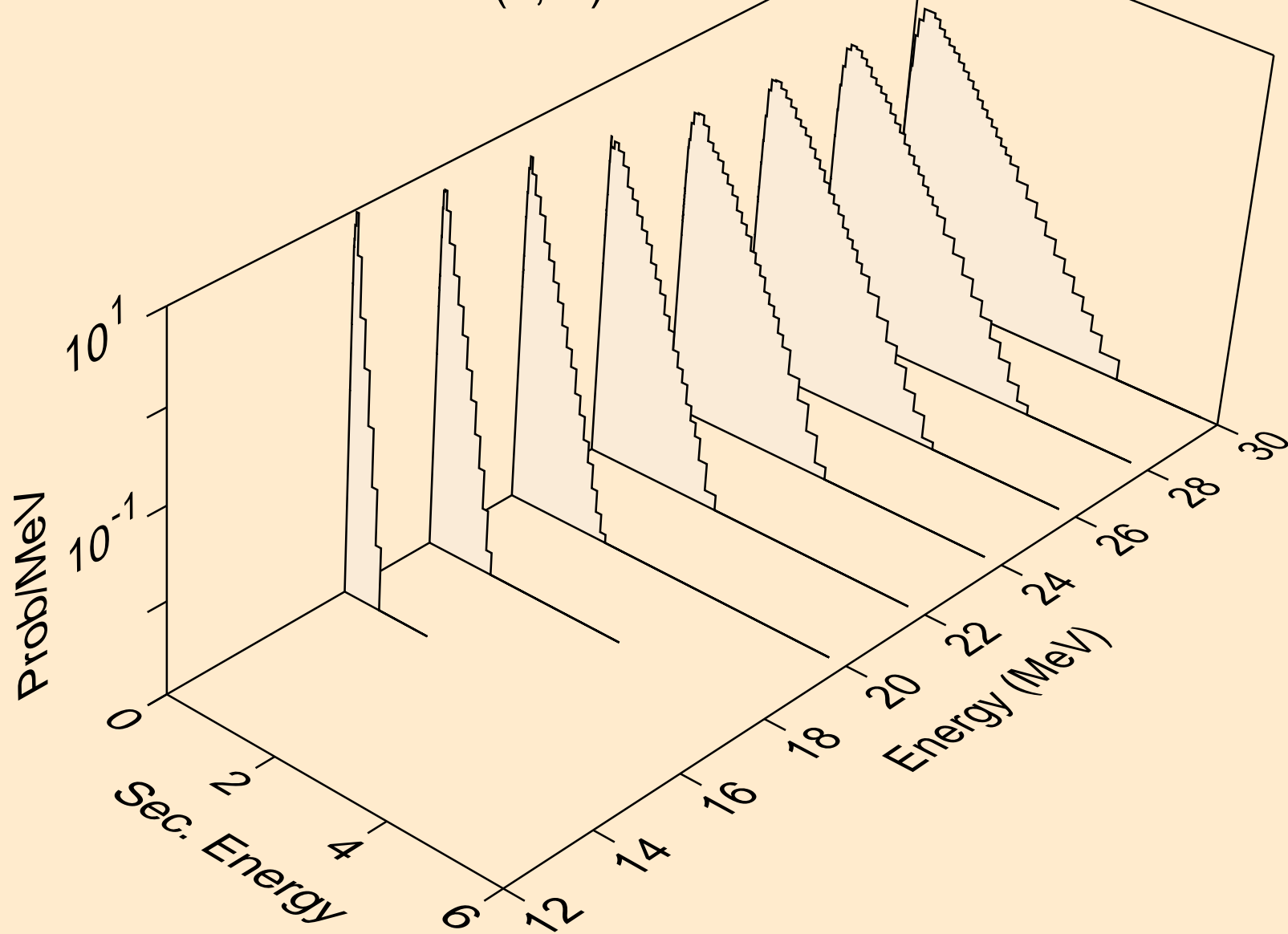
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



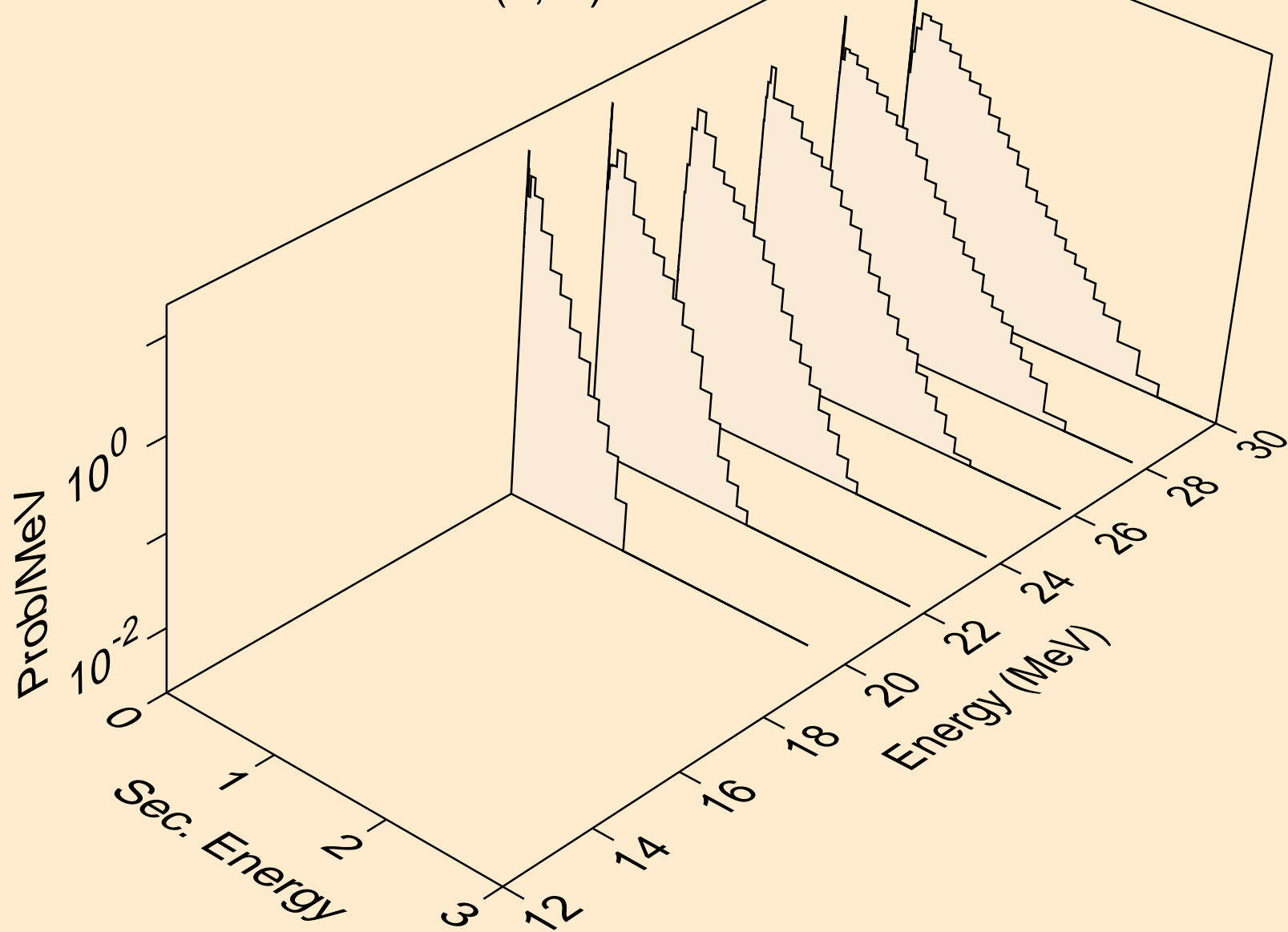
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Neutron emission for (n,n\*)d



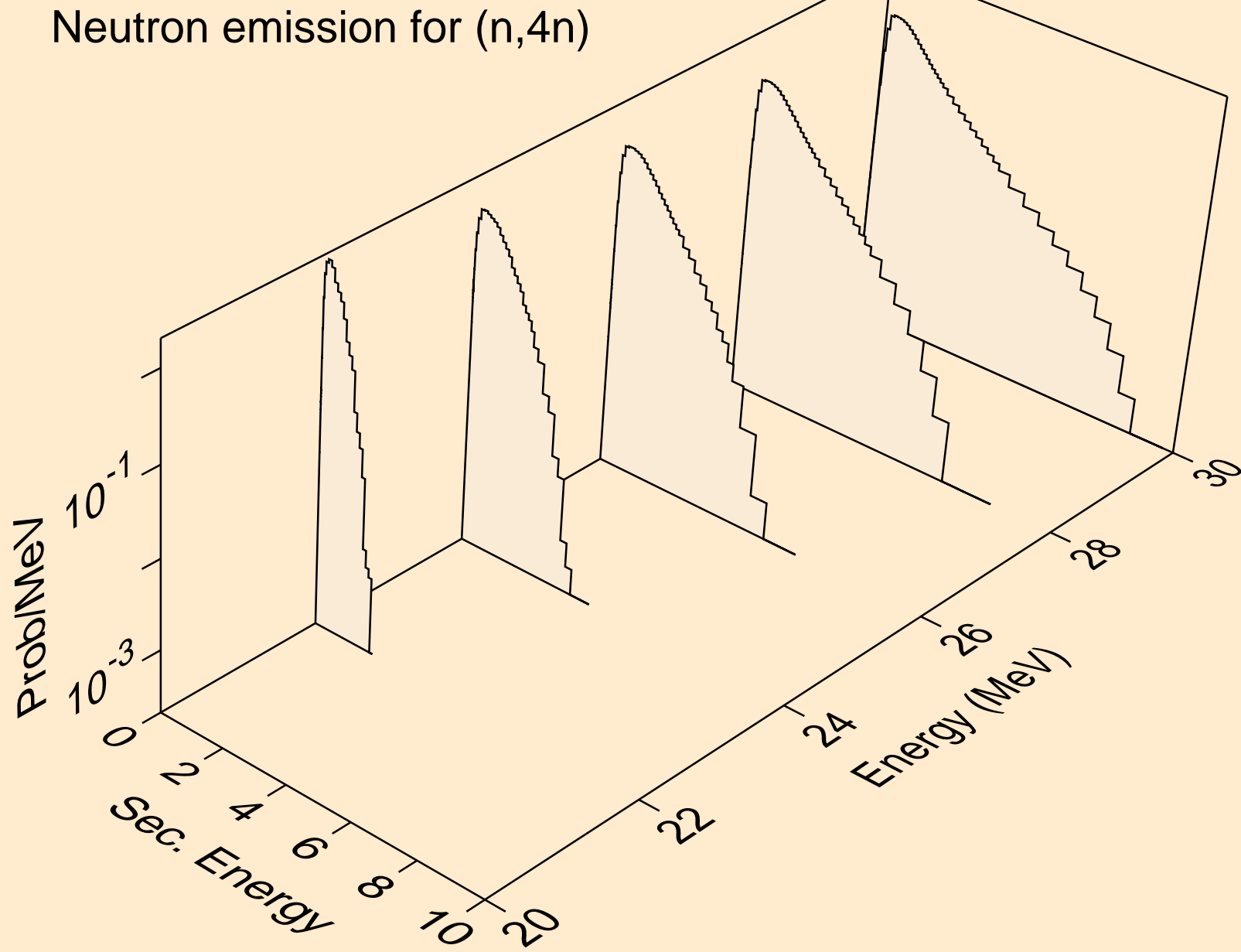
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3

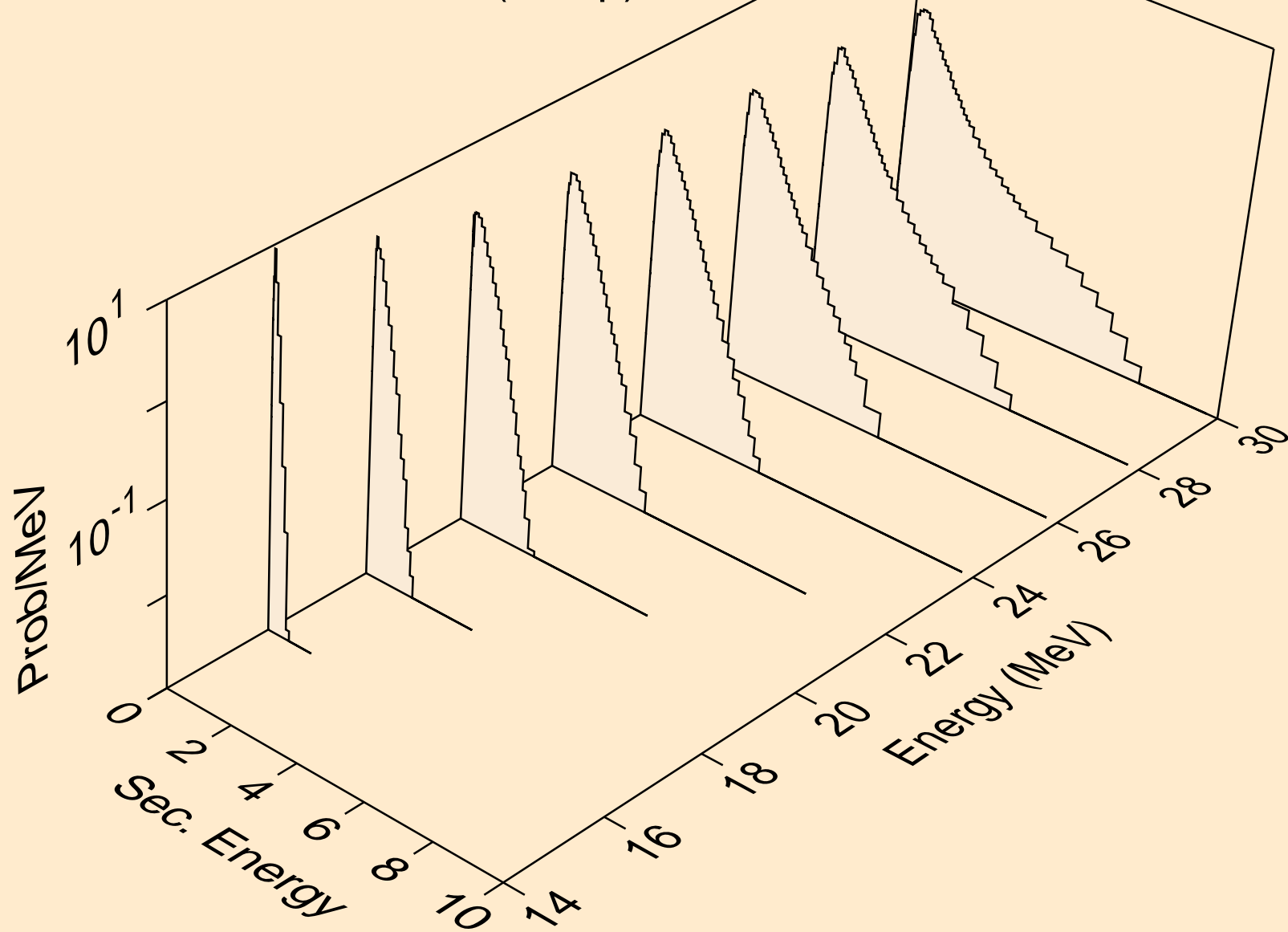


ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)

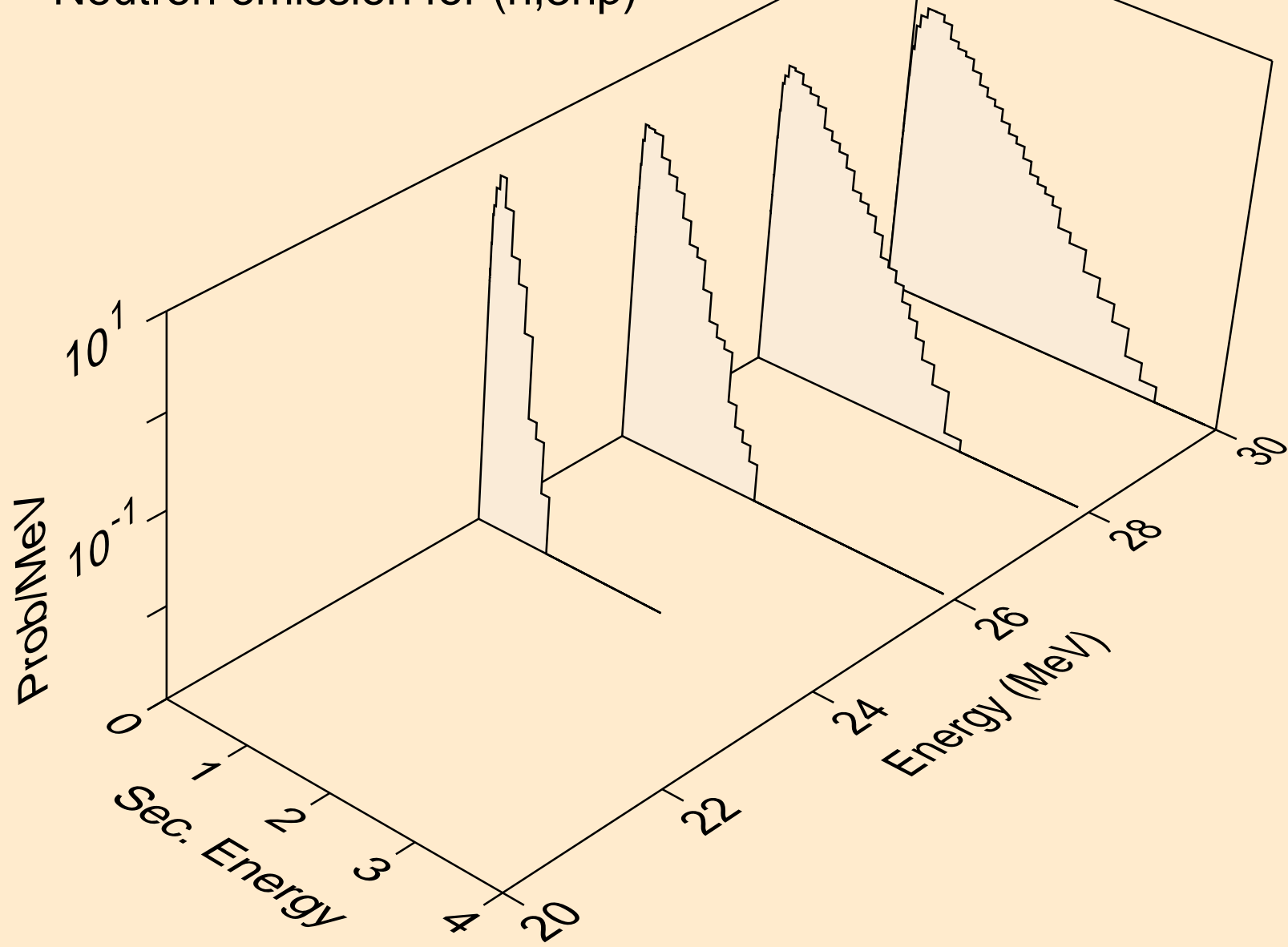




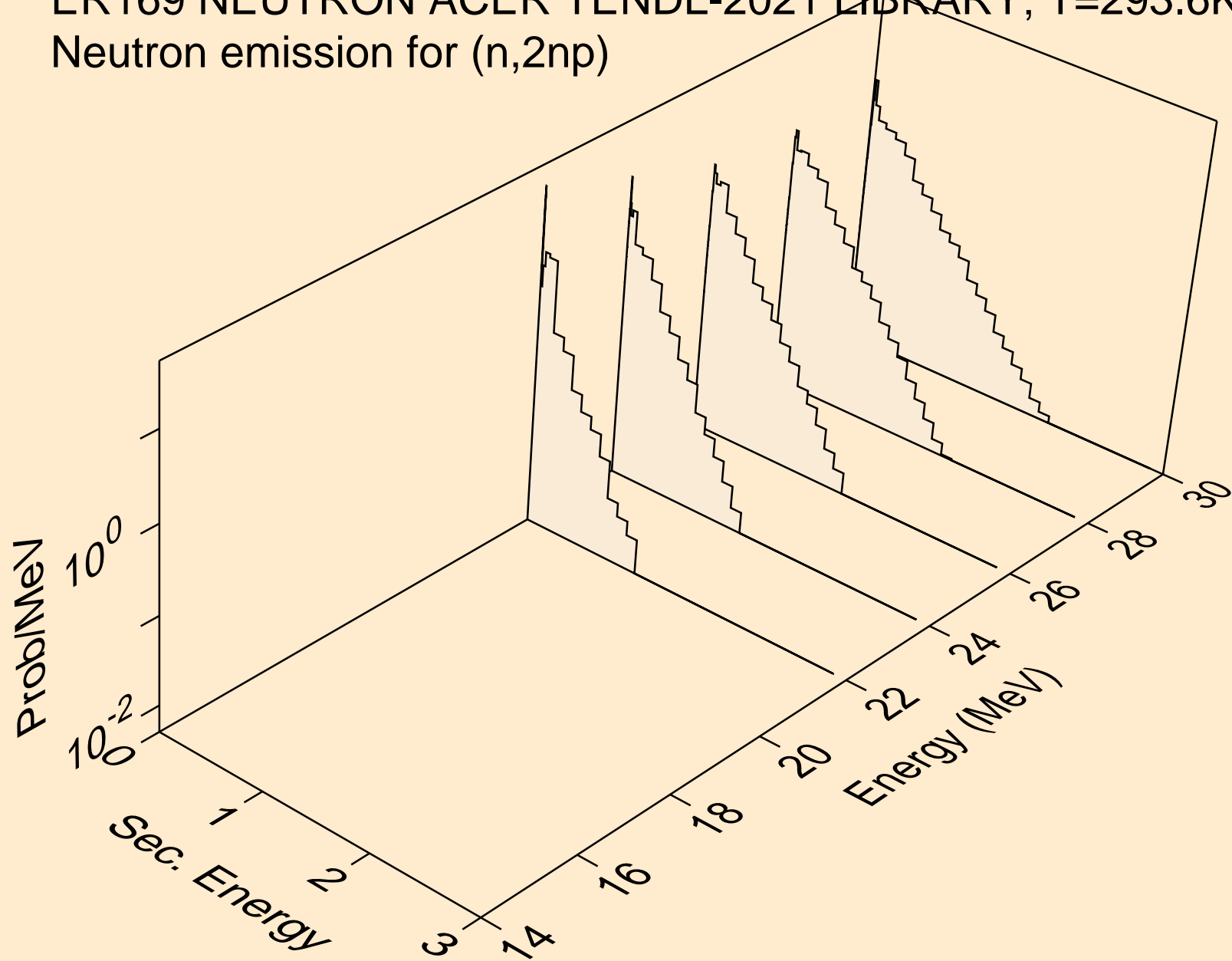
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Neutron emission for (n,2np)



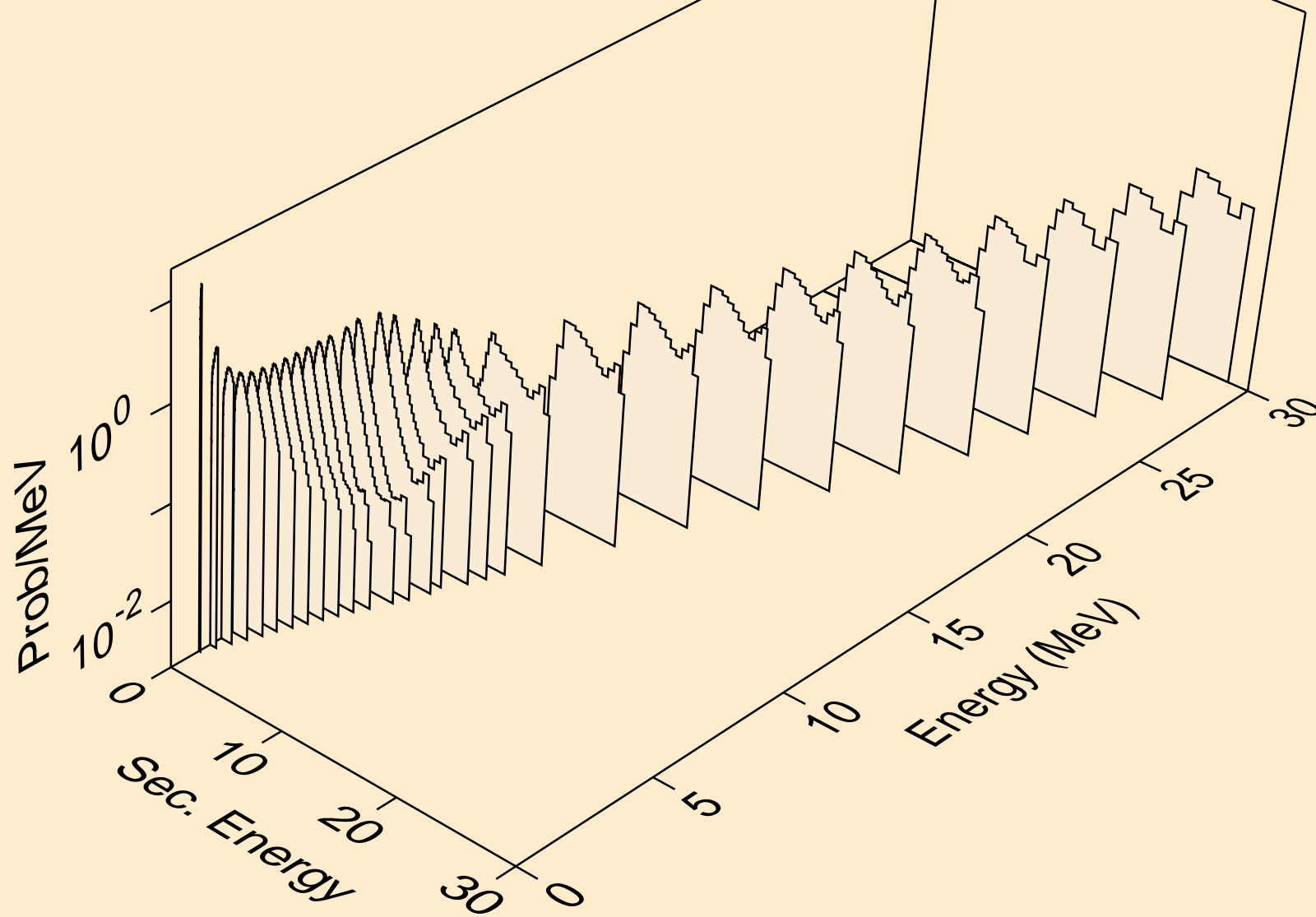
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Neutron emission for (n,3np)



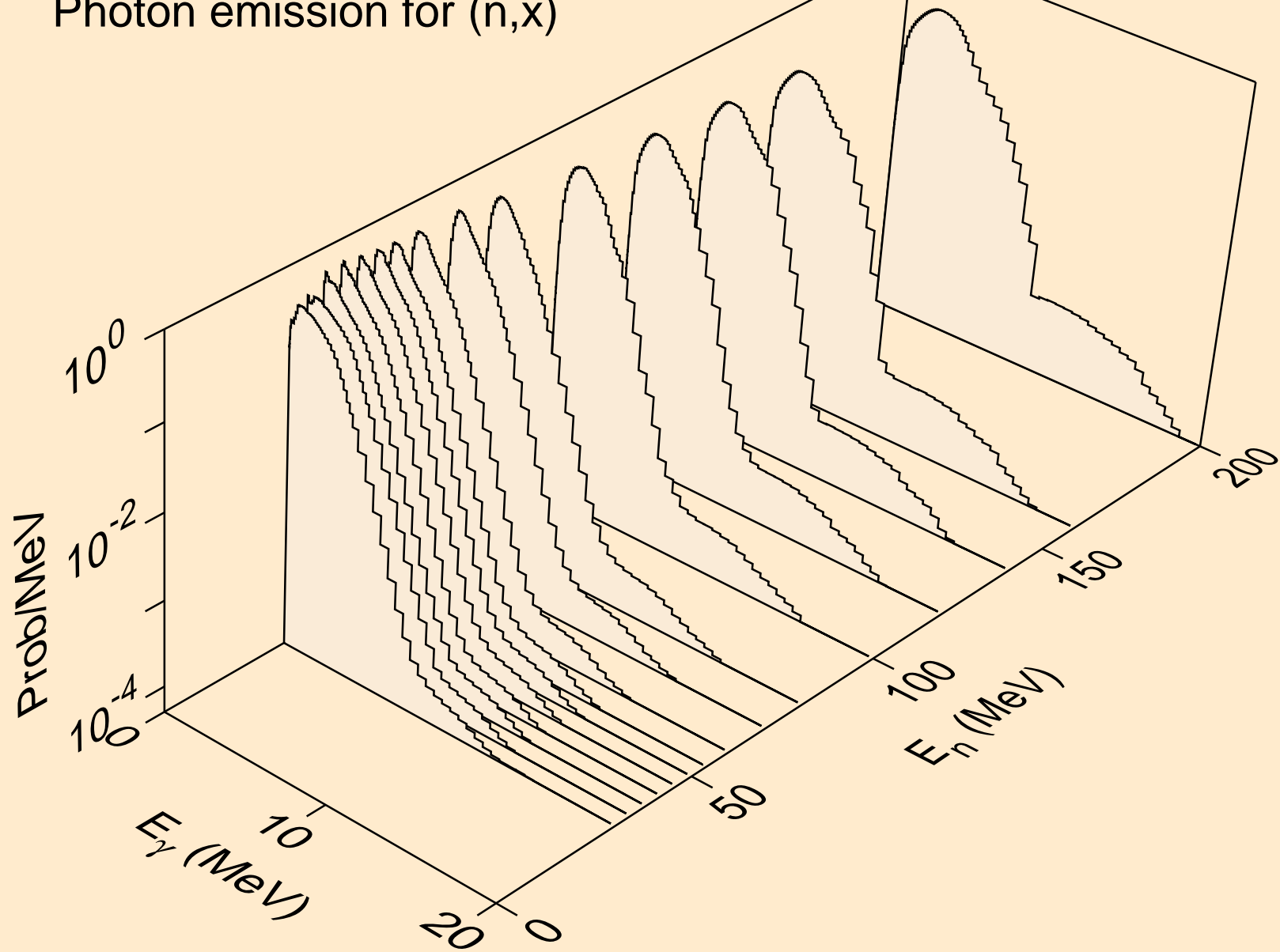
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Neutron emission for (n,2np)



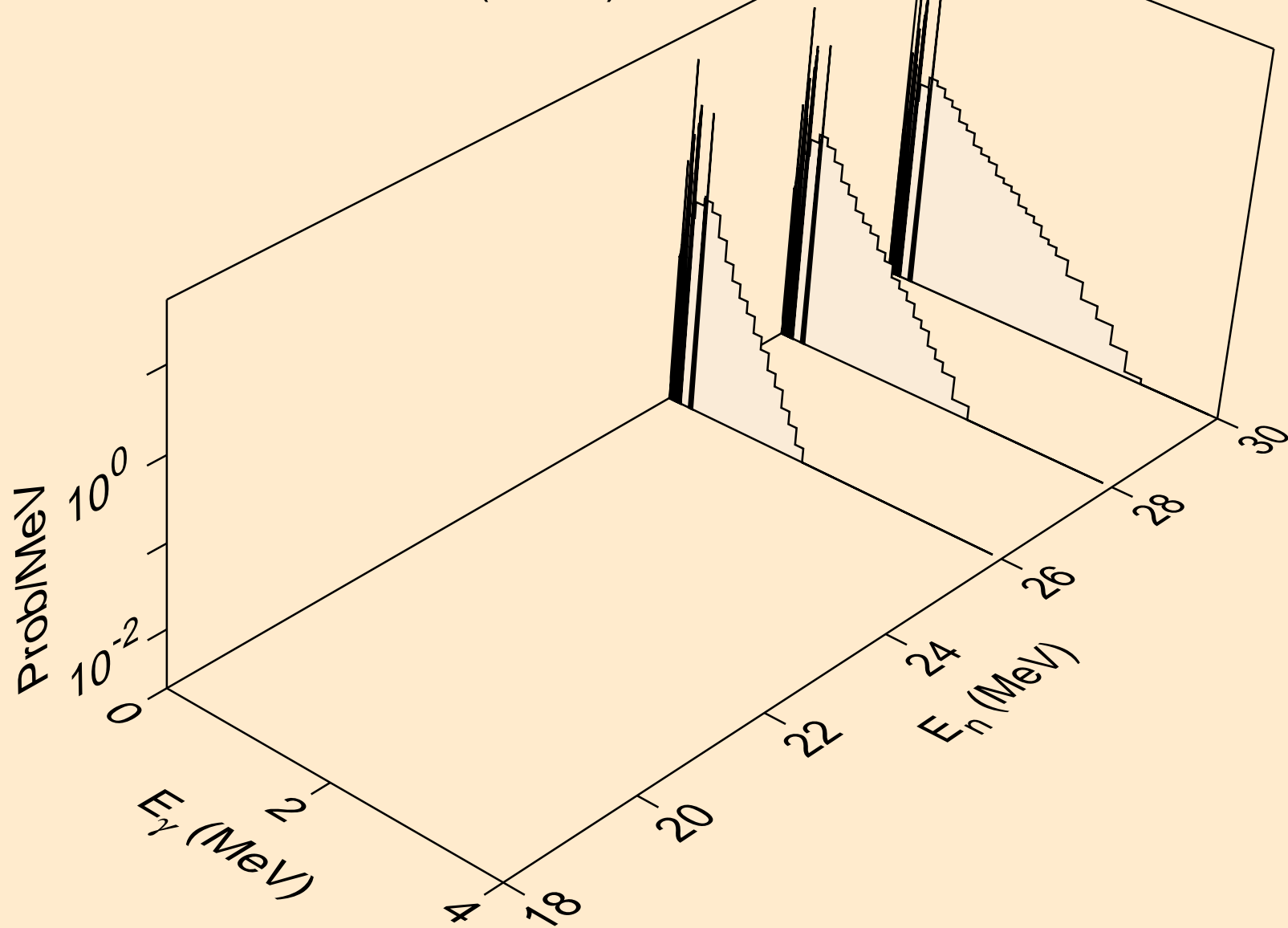
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Neutron emission for (n,n\*c)



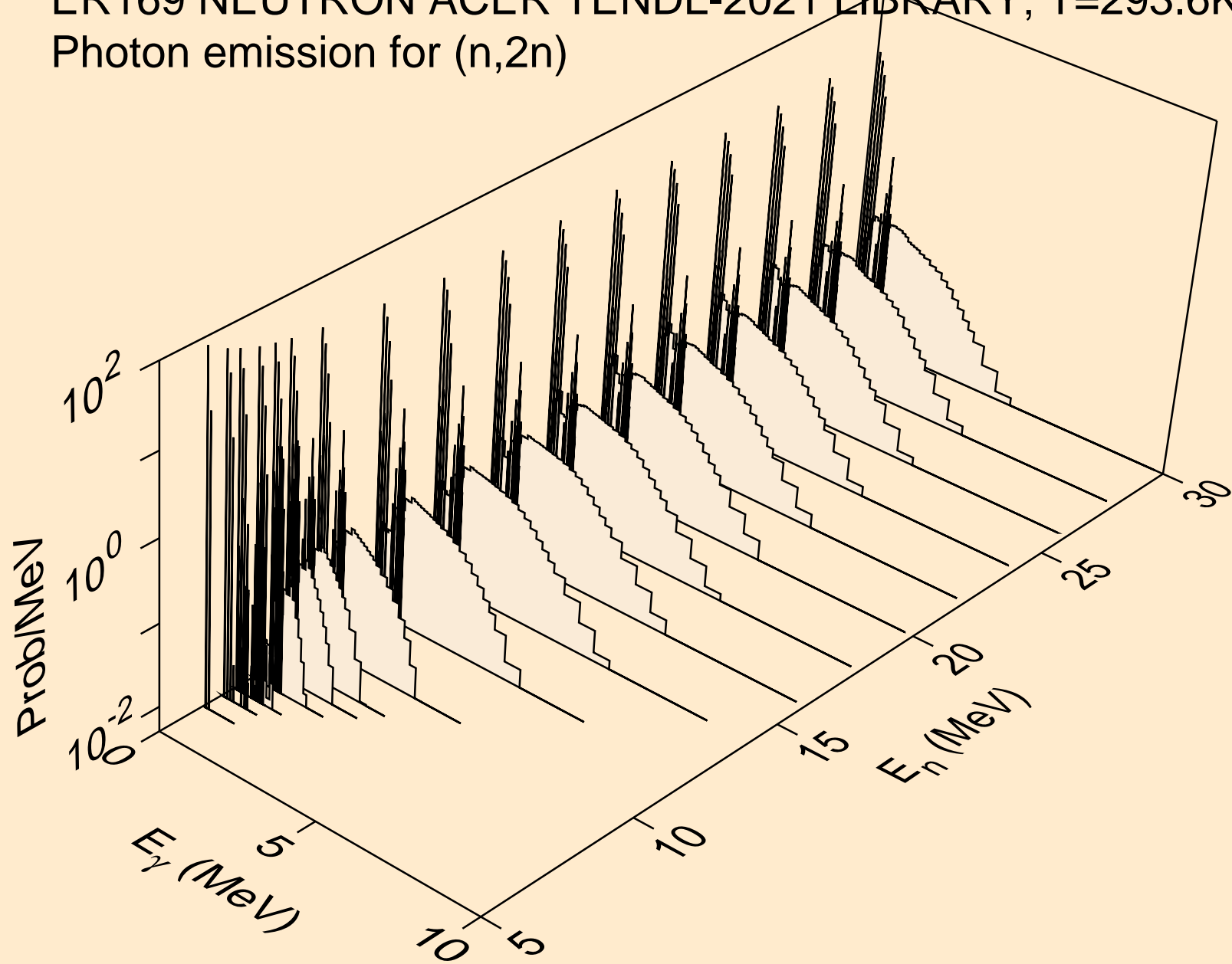
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Photon emission for (n,x)



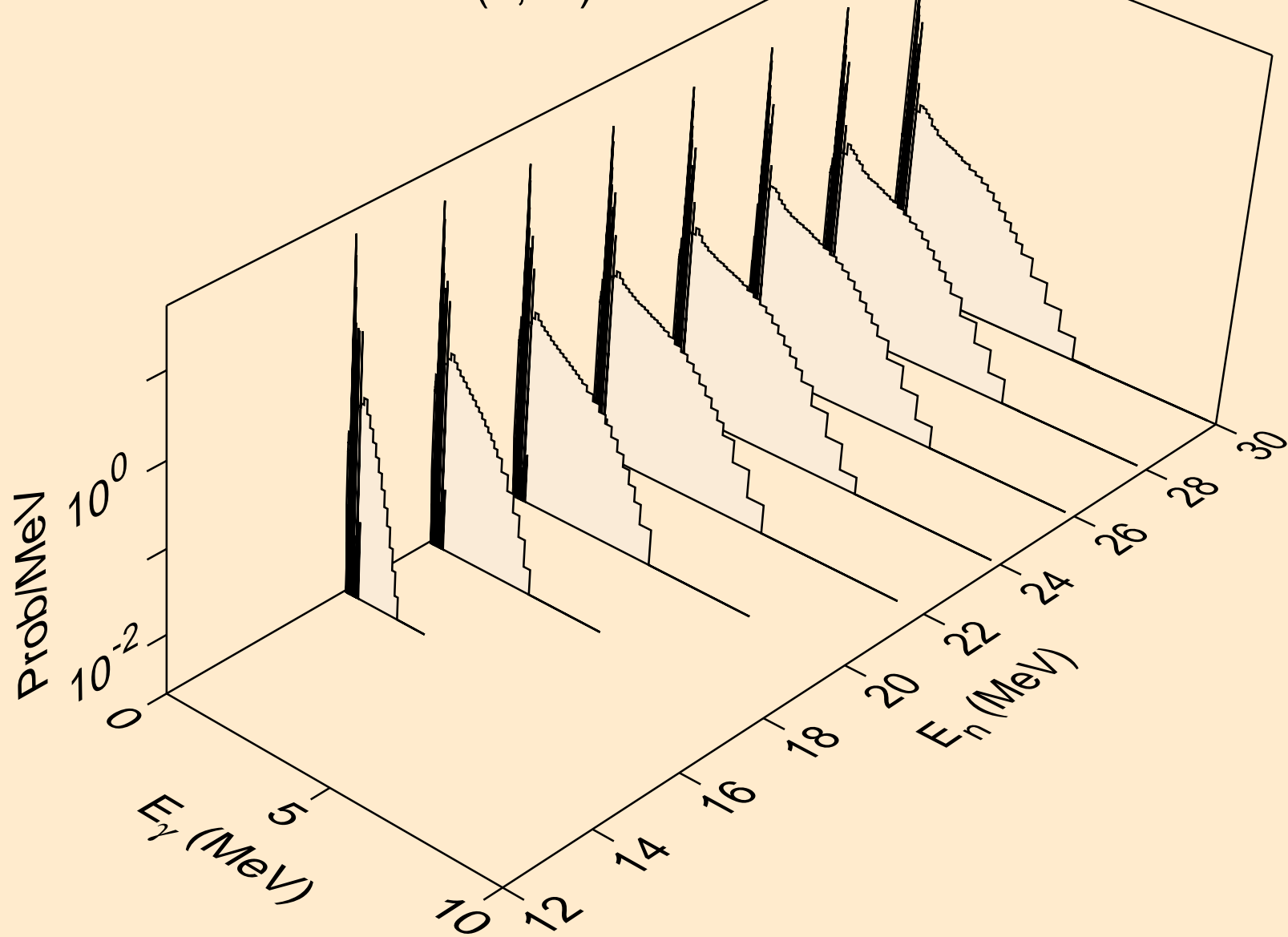
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

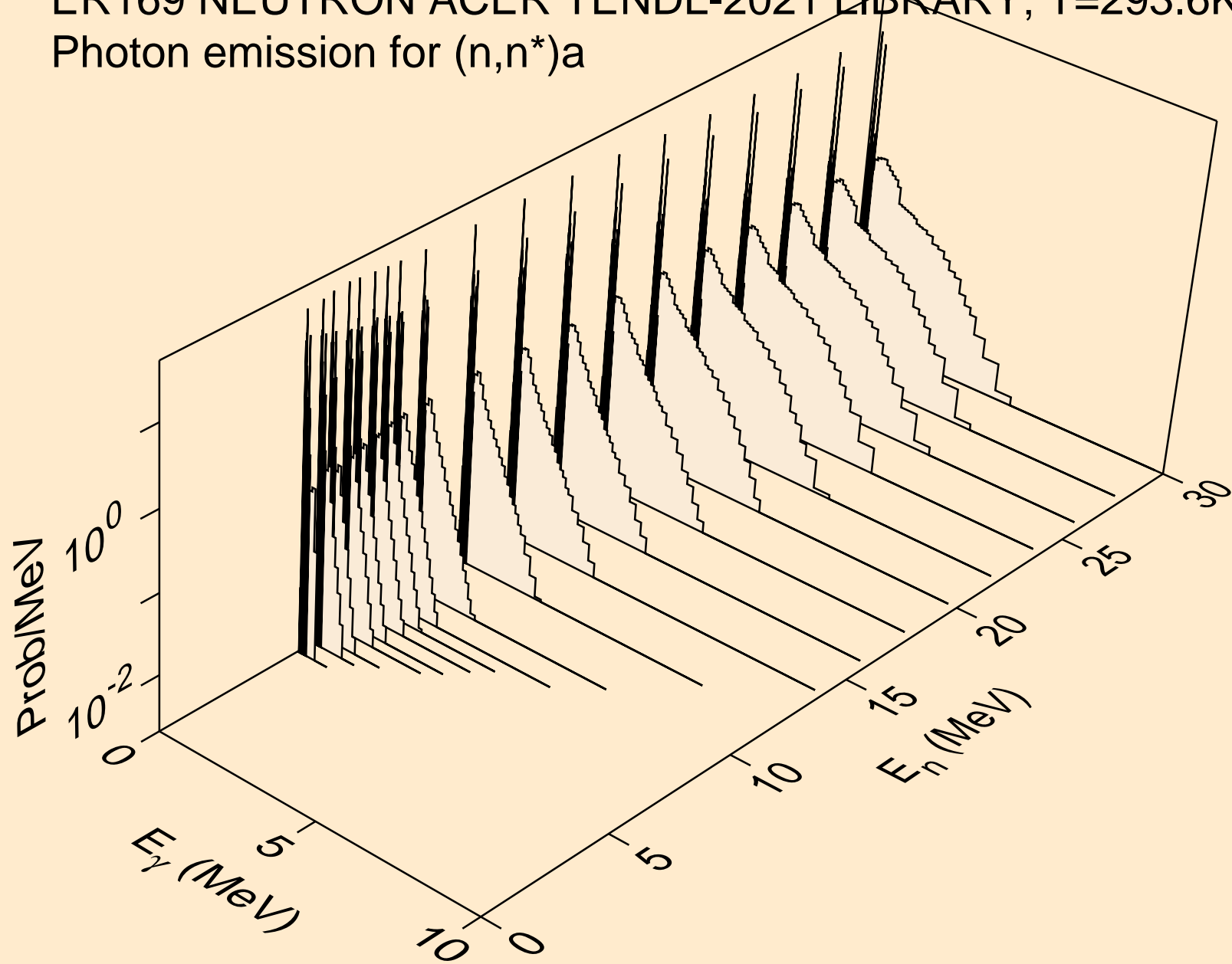


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Photon emission for (n,3n)

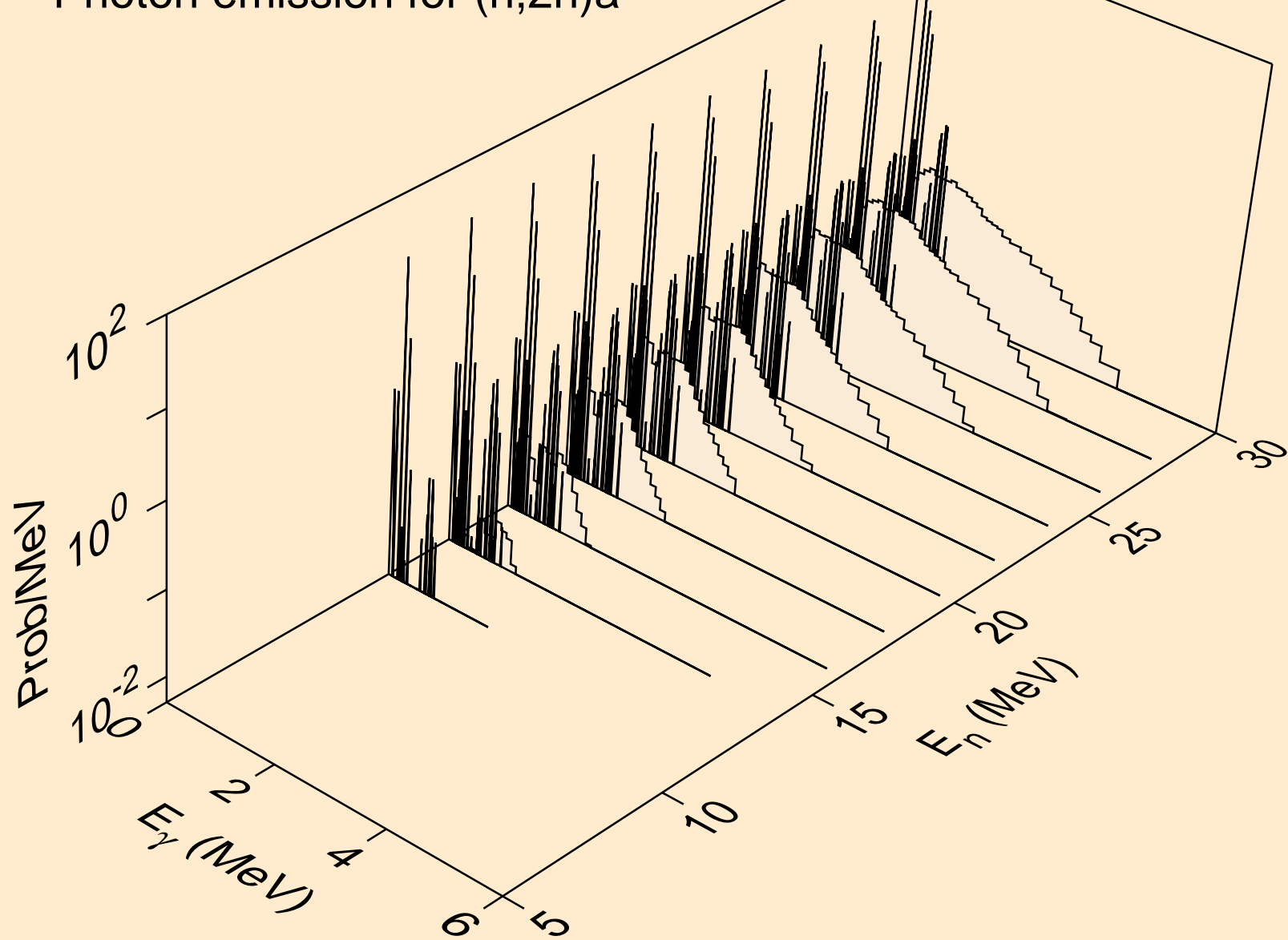




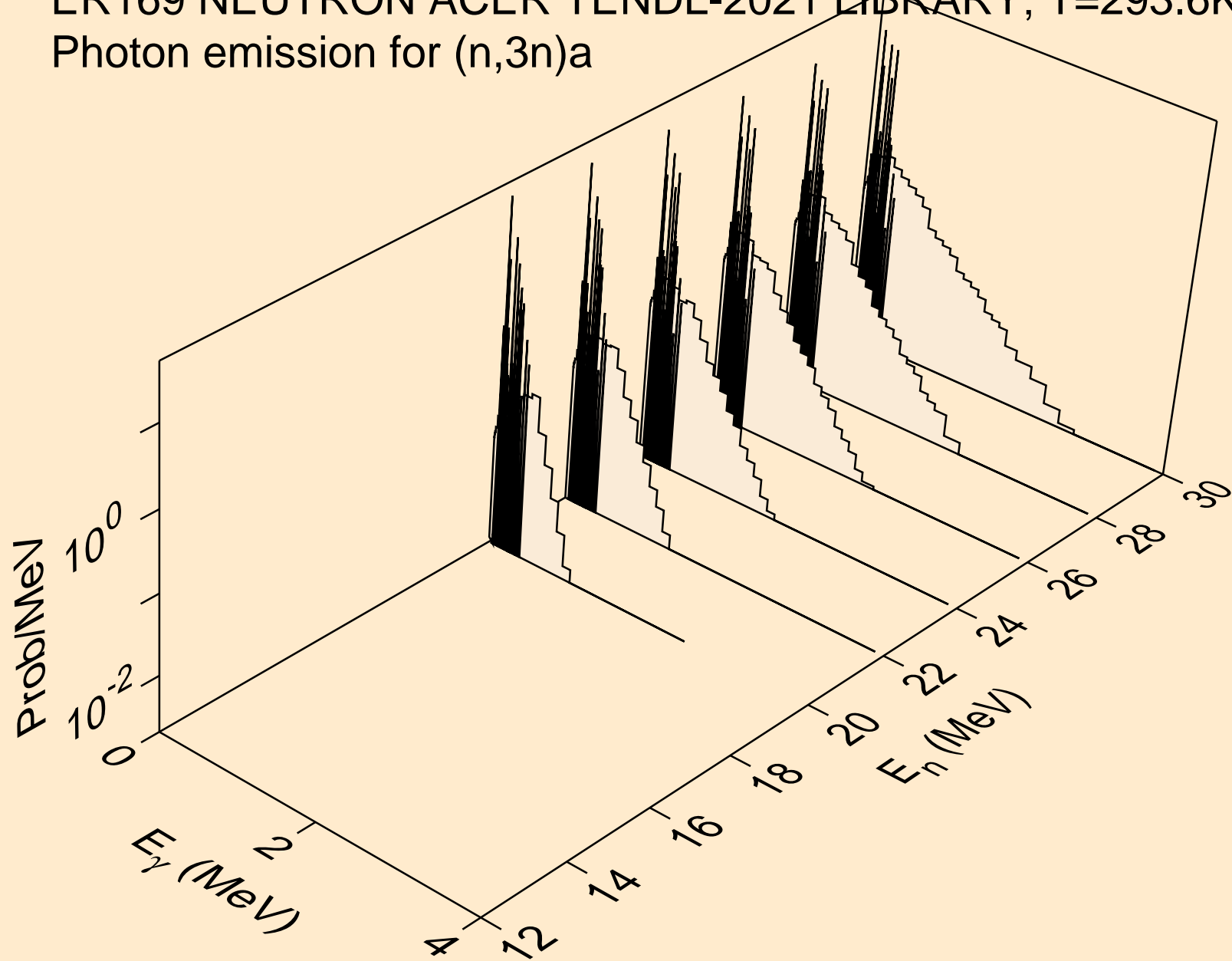
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Photon emission for (n,n\*)a



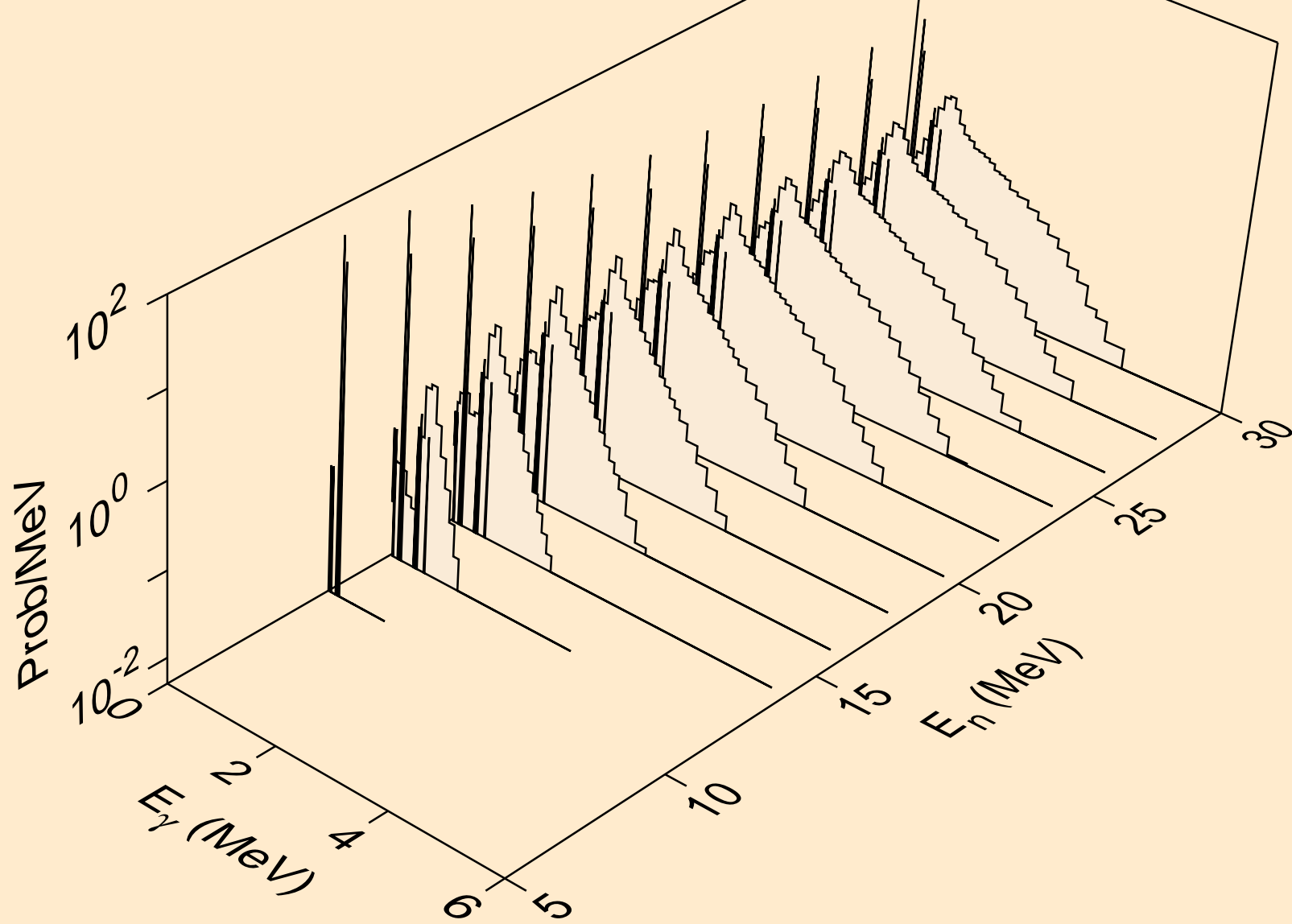
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Photon emission for (n,2n)a



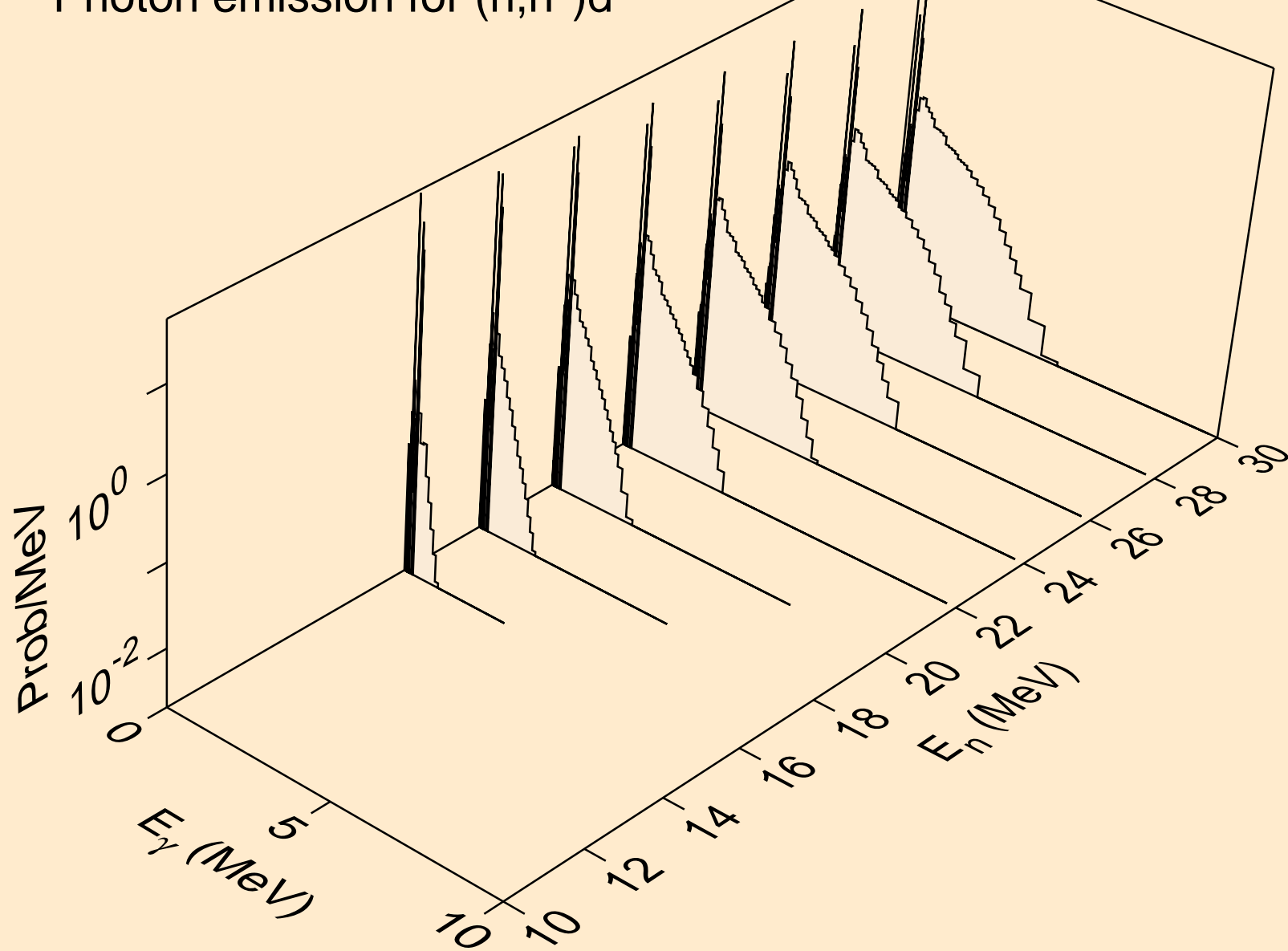
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Photon emission for (n,3n)a



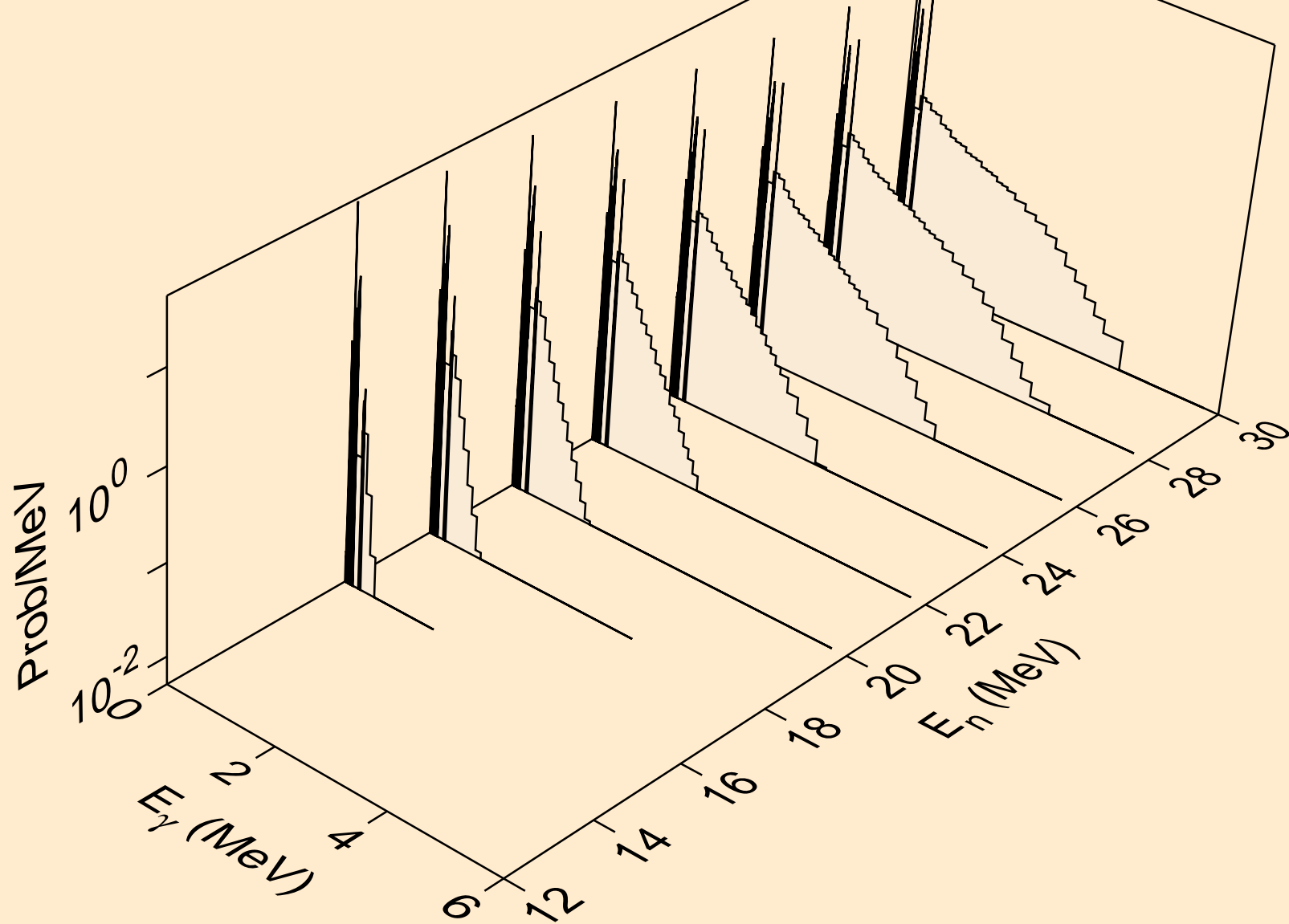
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Photon emission for (n,n\*)p



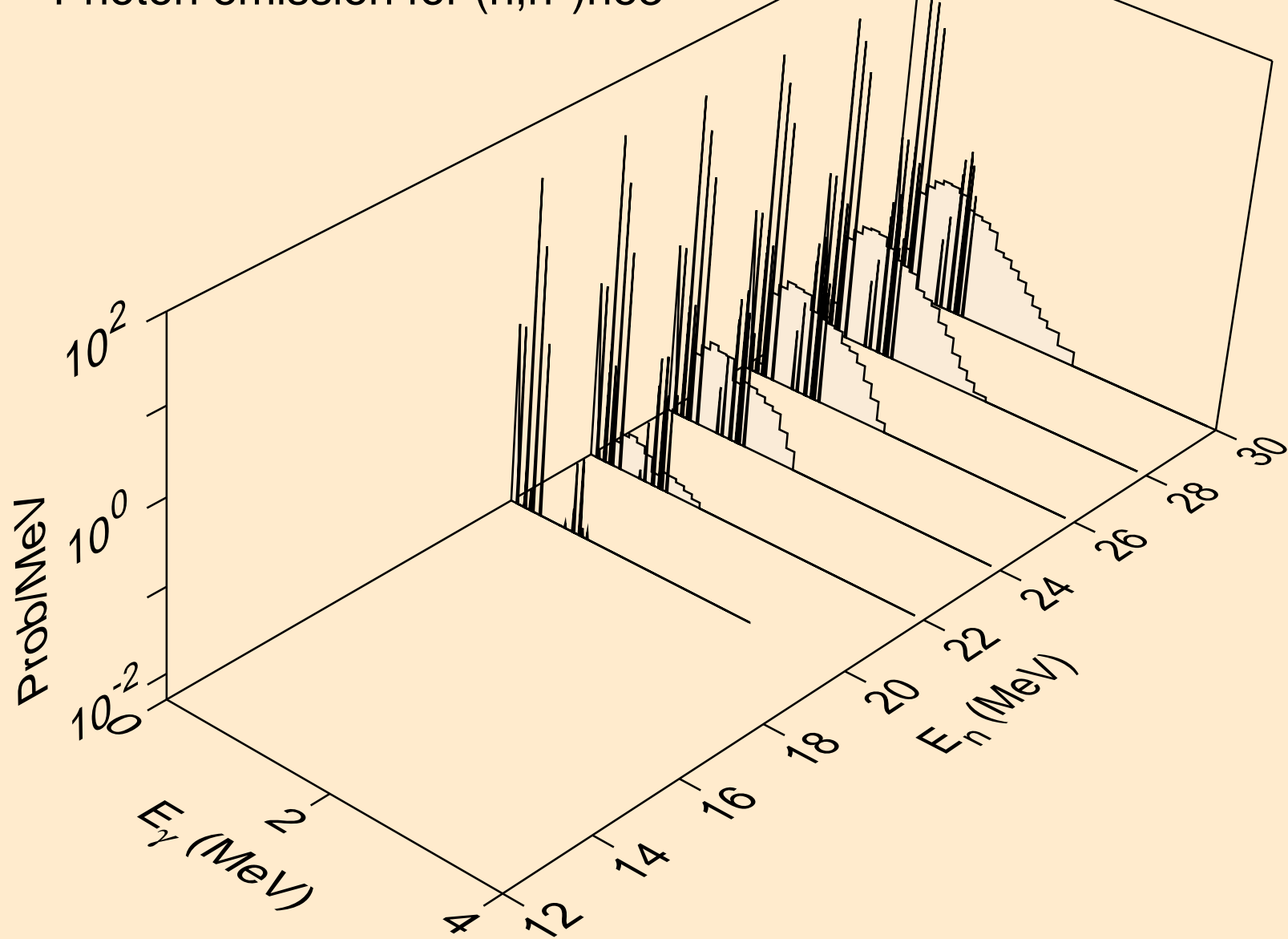
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Photon emission for (n,n\*)d



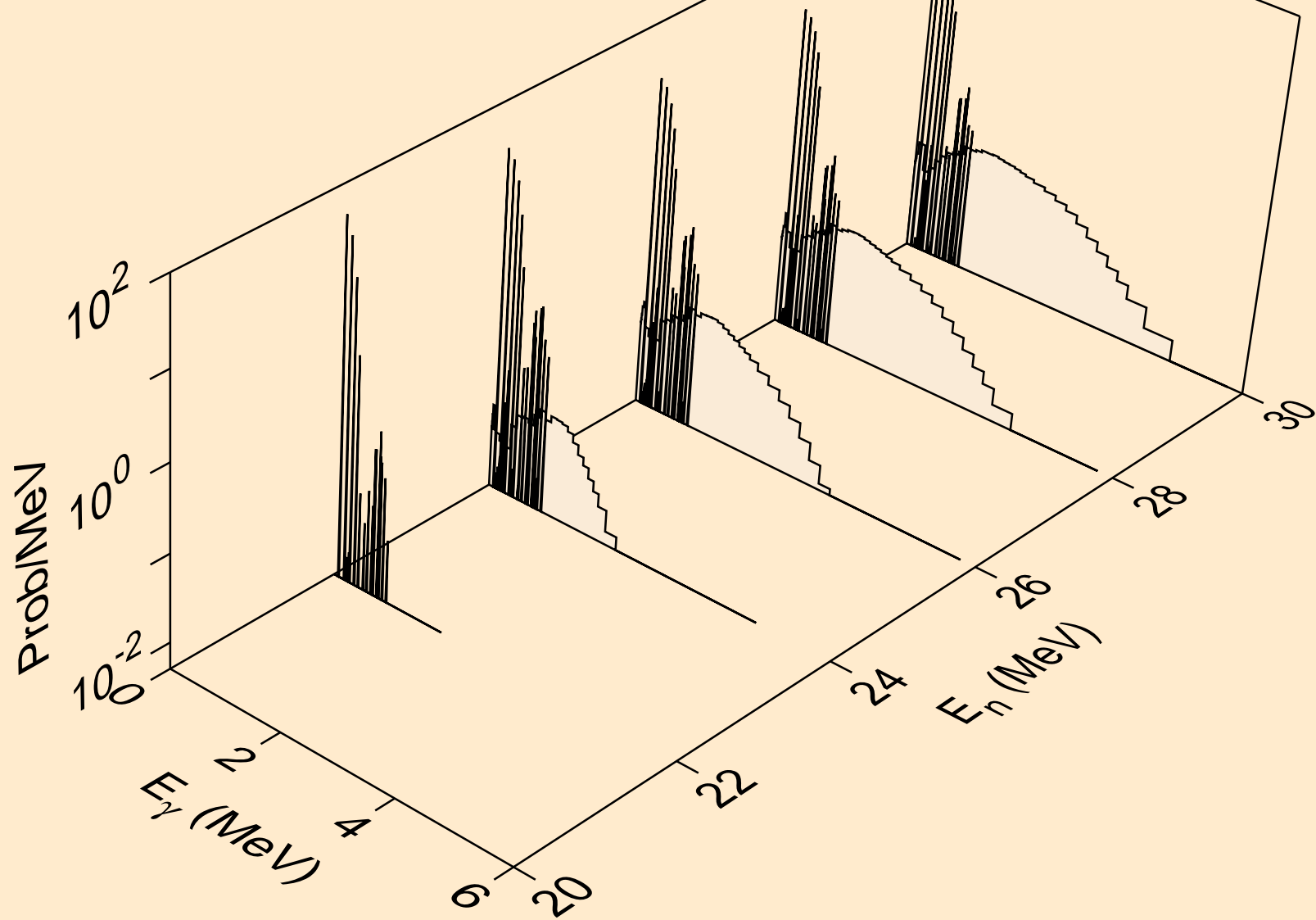
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3

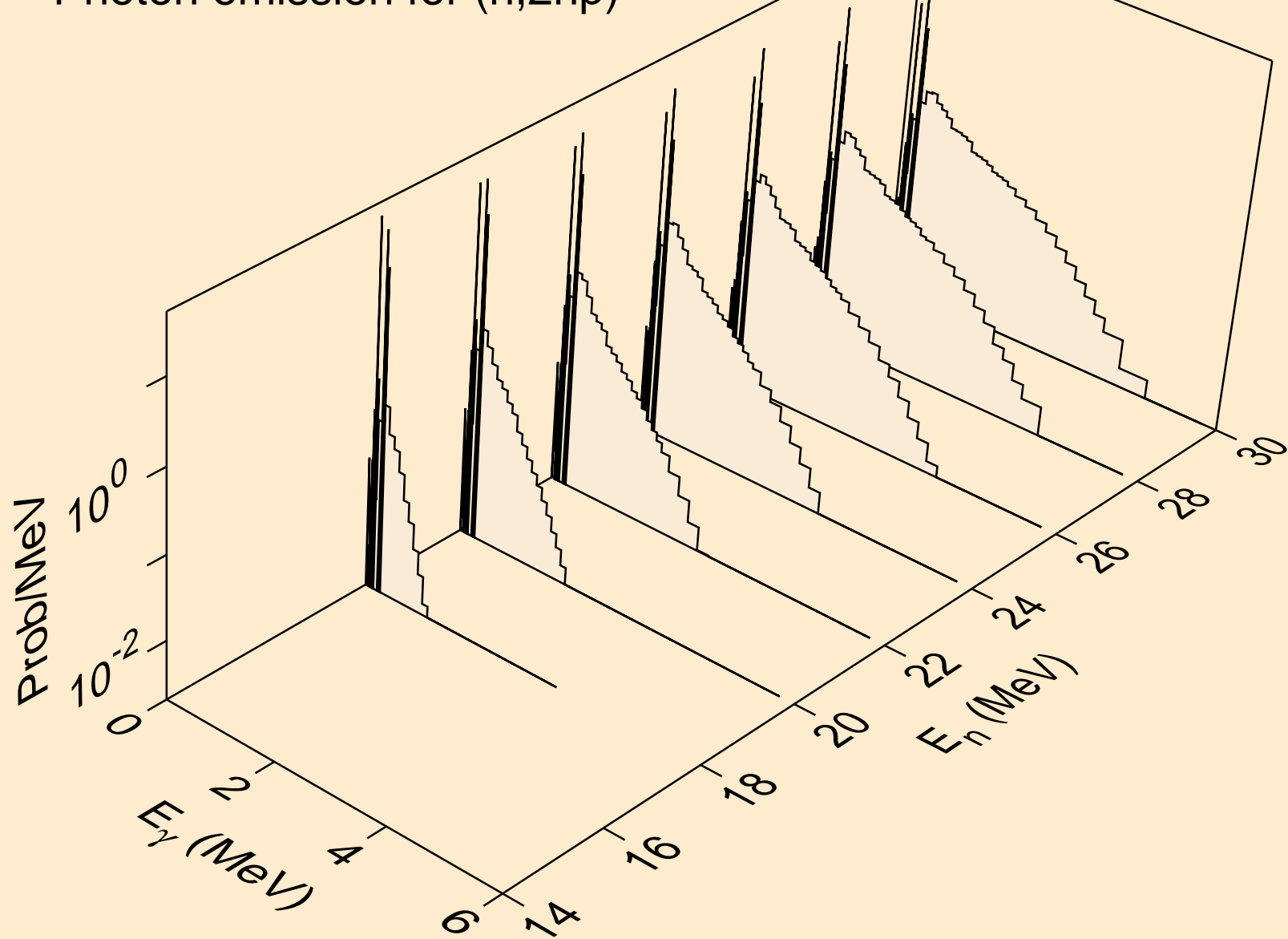


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Photon emission for (n,4n)

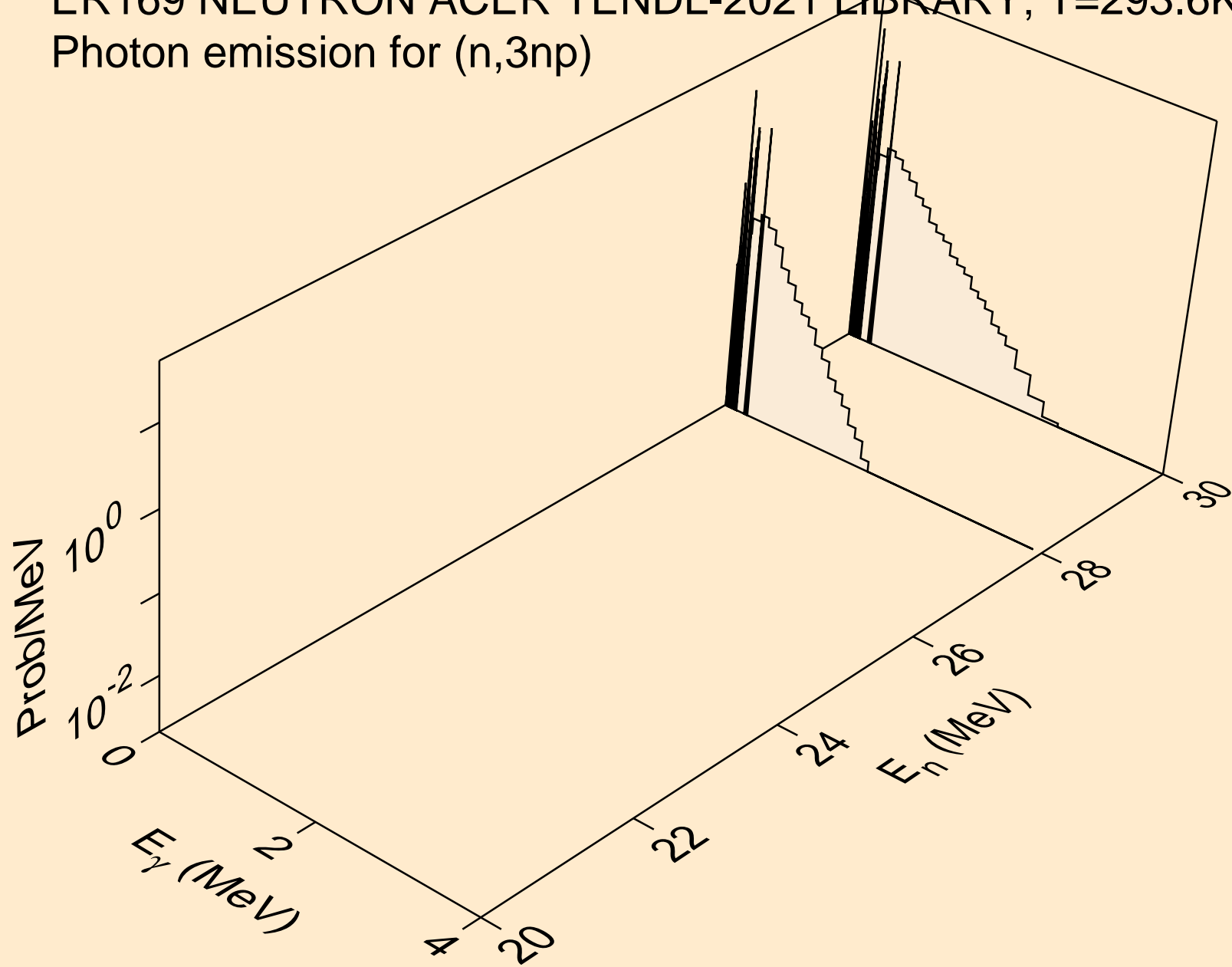




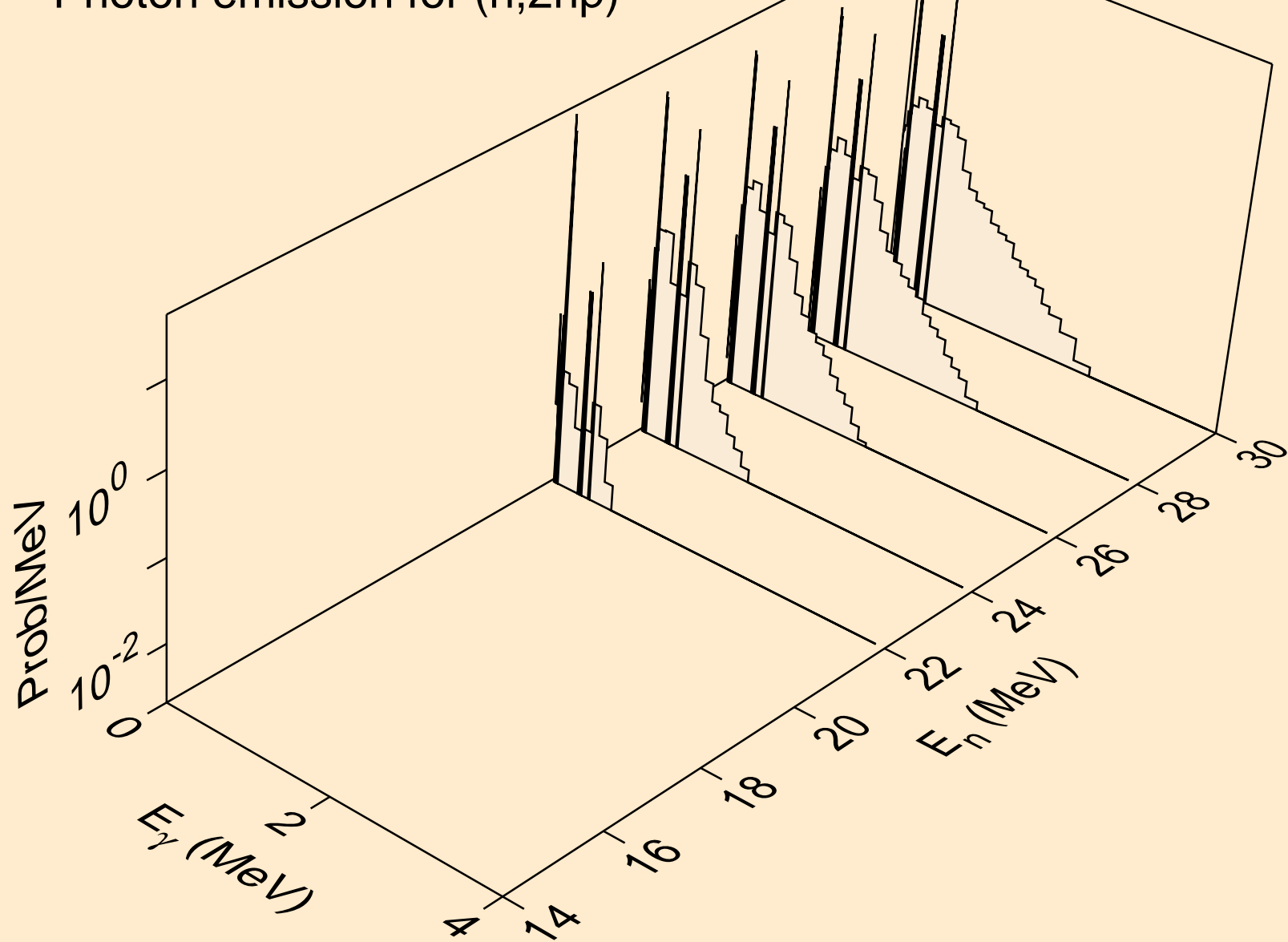
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Photon emission for (n,2np)



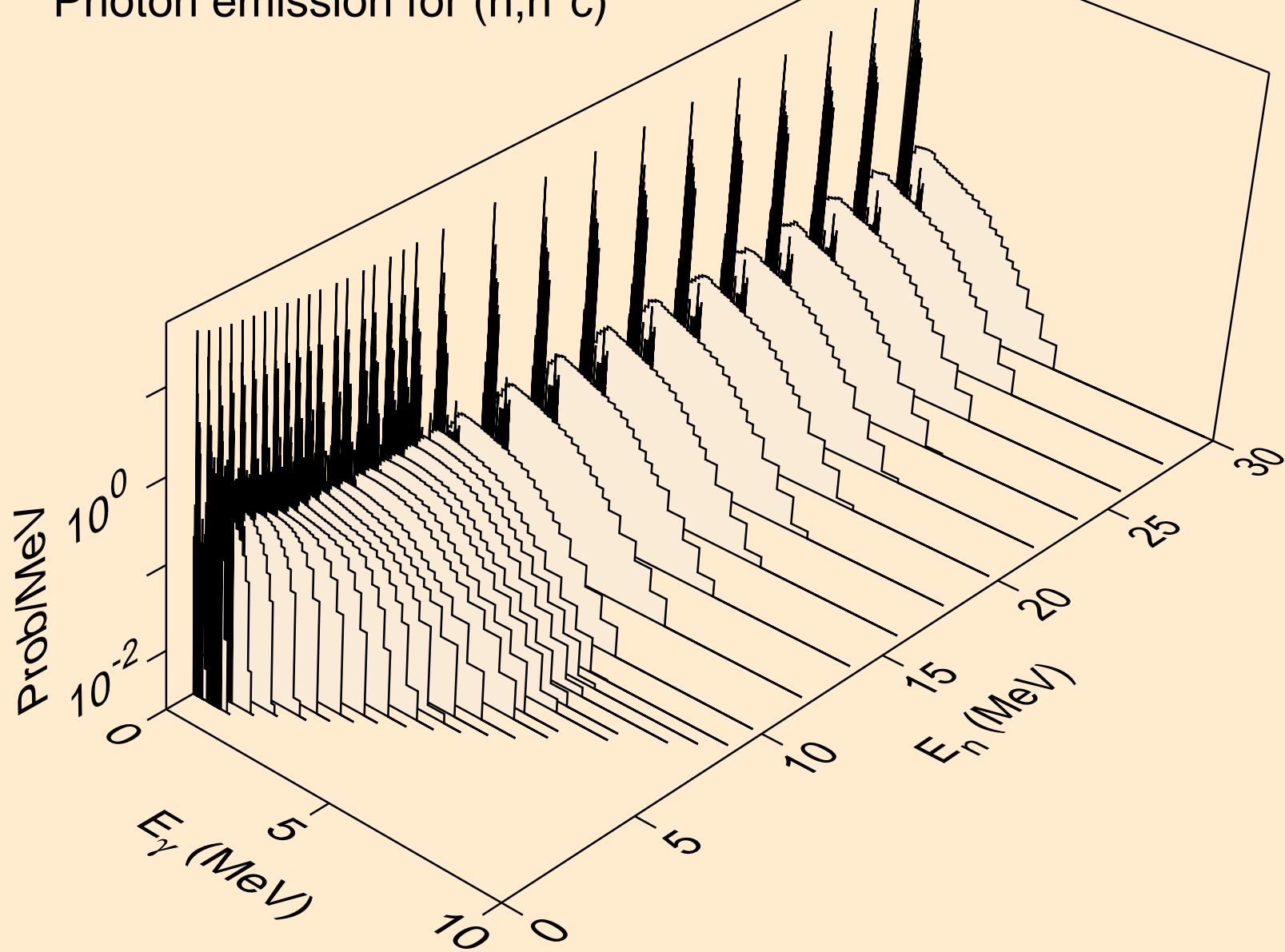
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Photon emission for (n,3np)



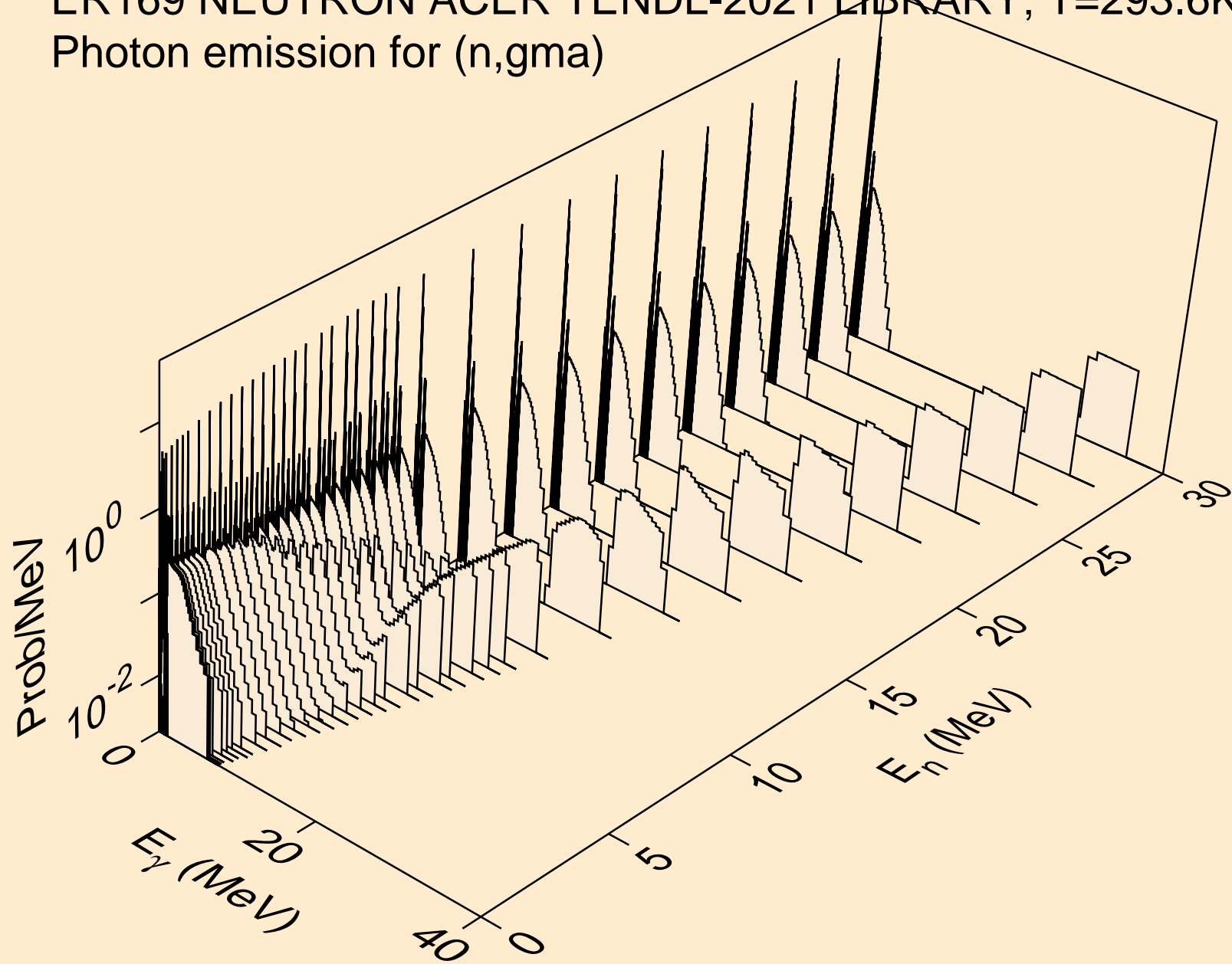
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Photon emission for (n,2np)



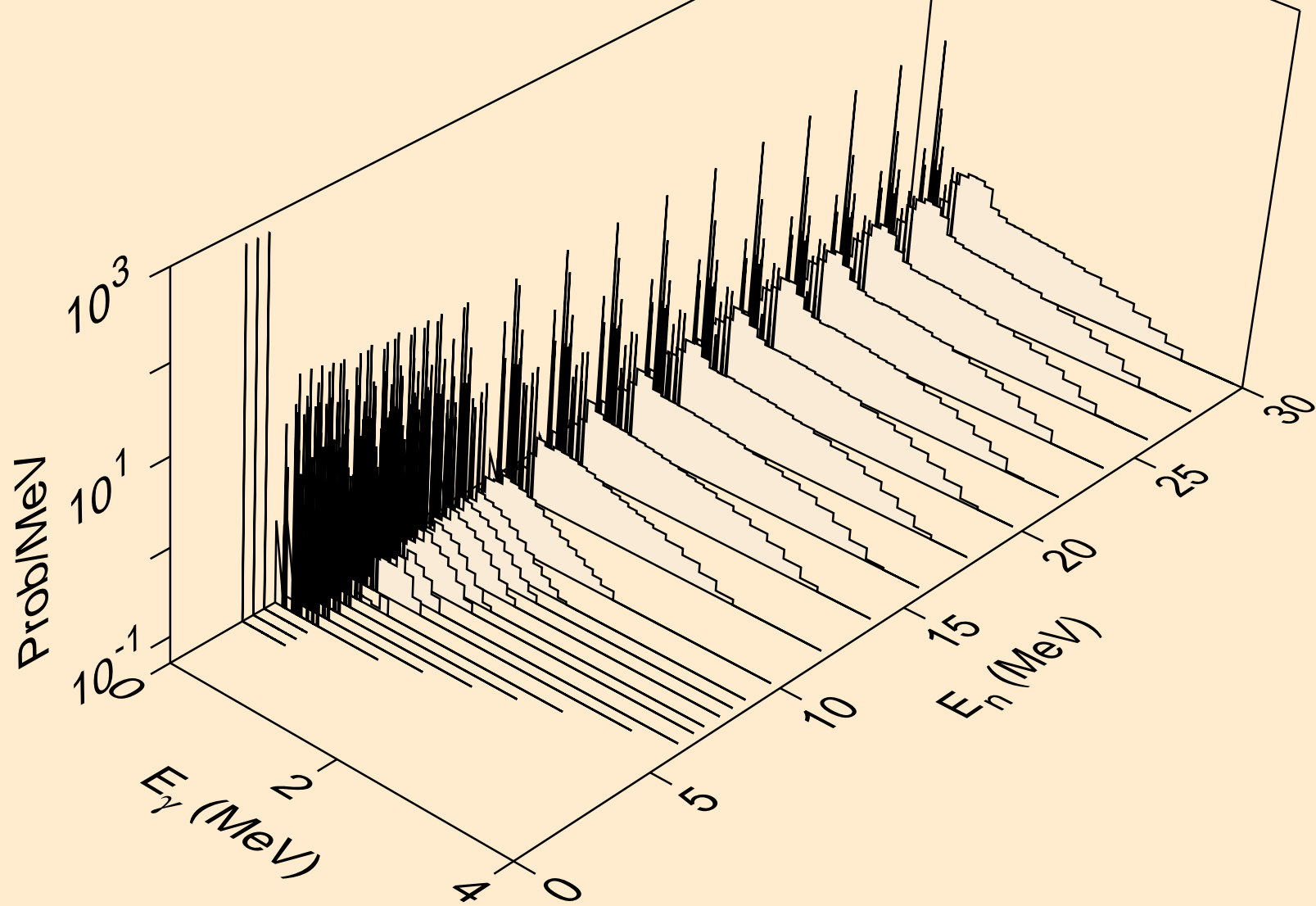
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Photon emission for (n,n\*c)



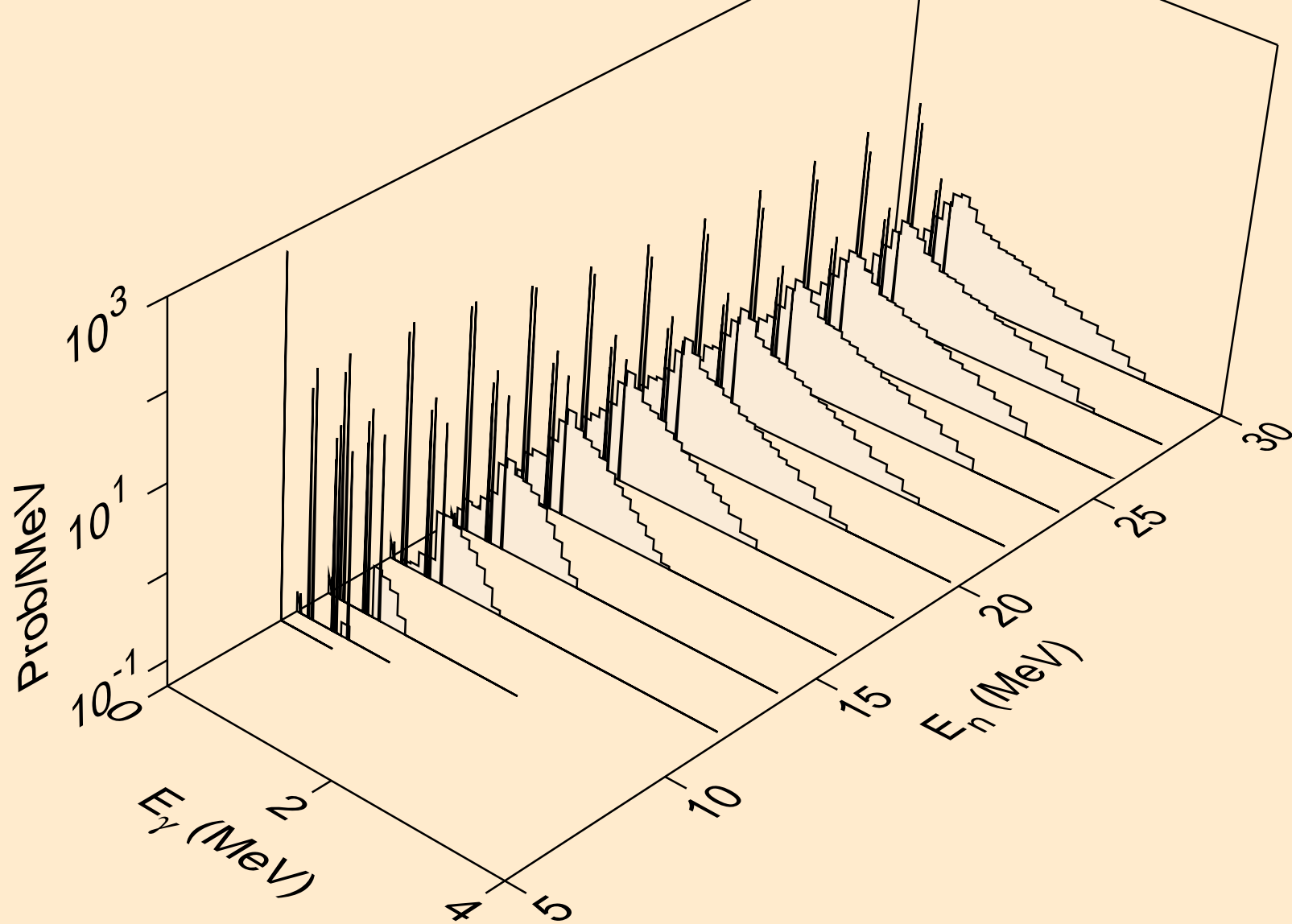
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Photon emission for (n,gma)



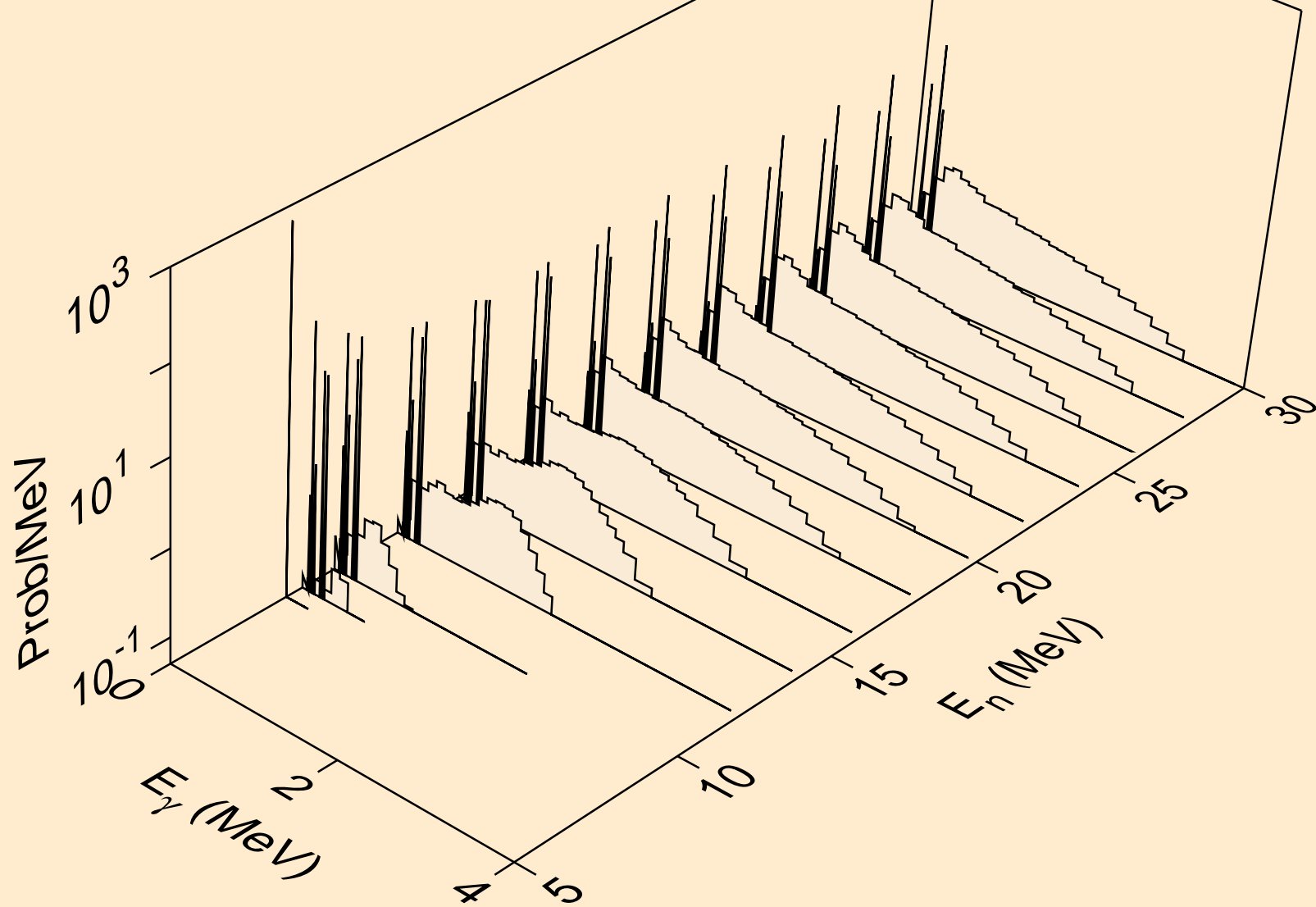
ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)

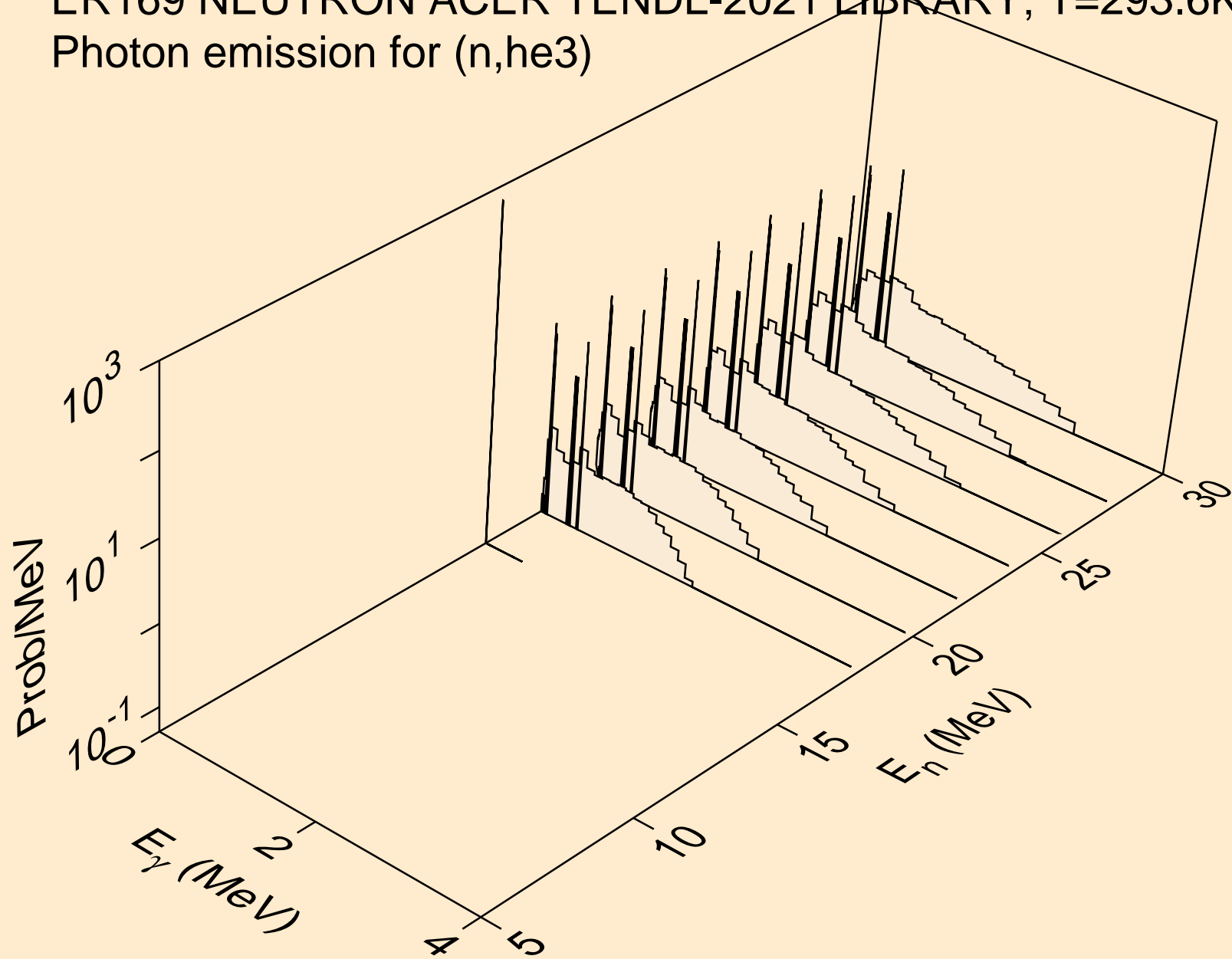


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Photon emission for (n,t)

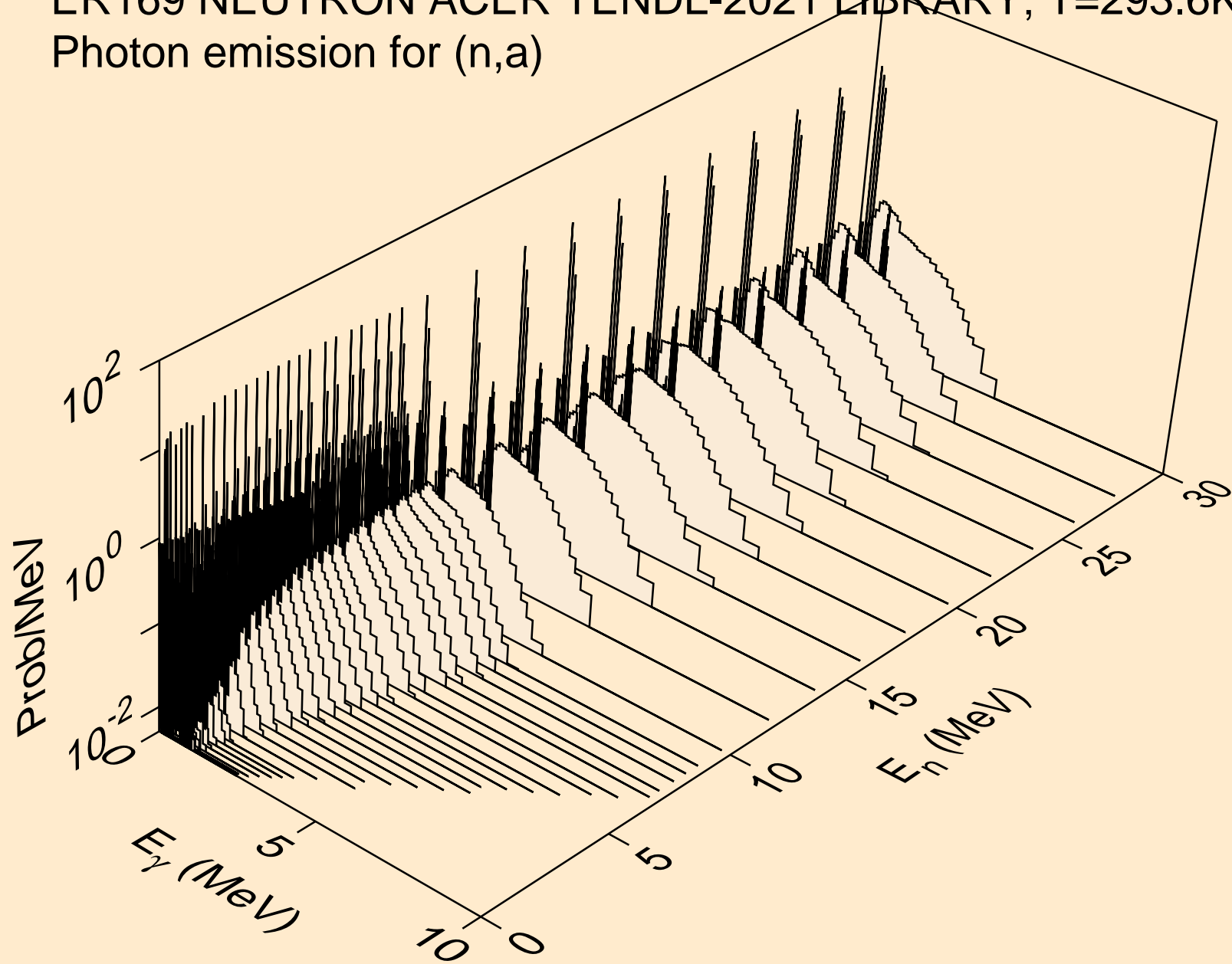




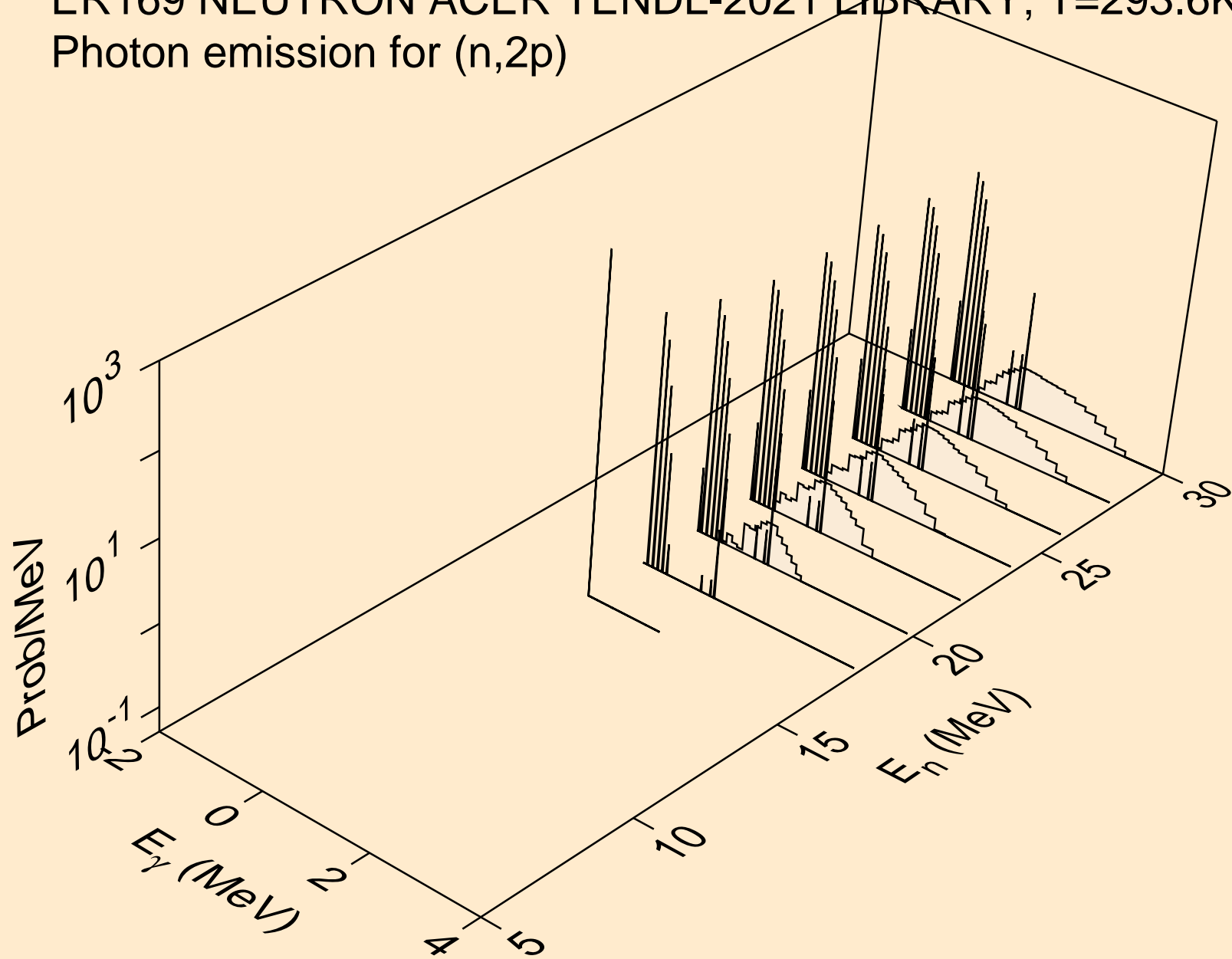
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Photon emission for (n,he3)



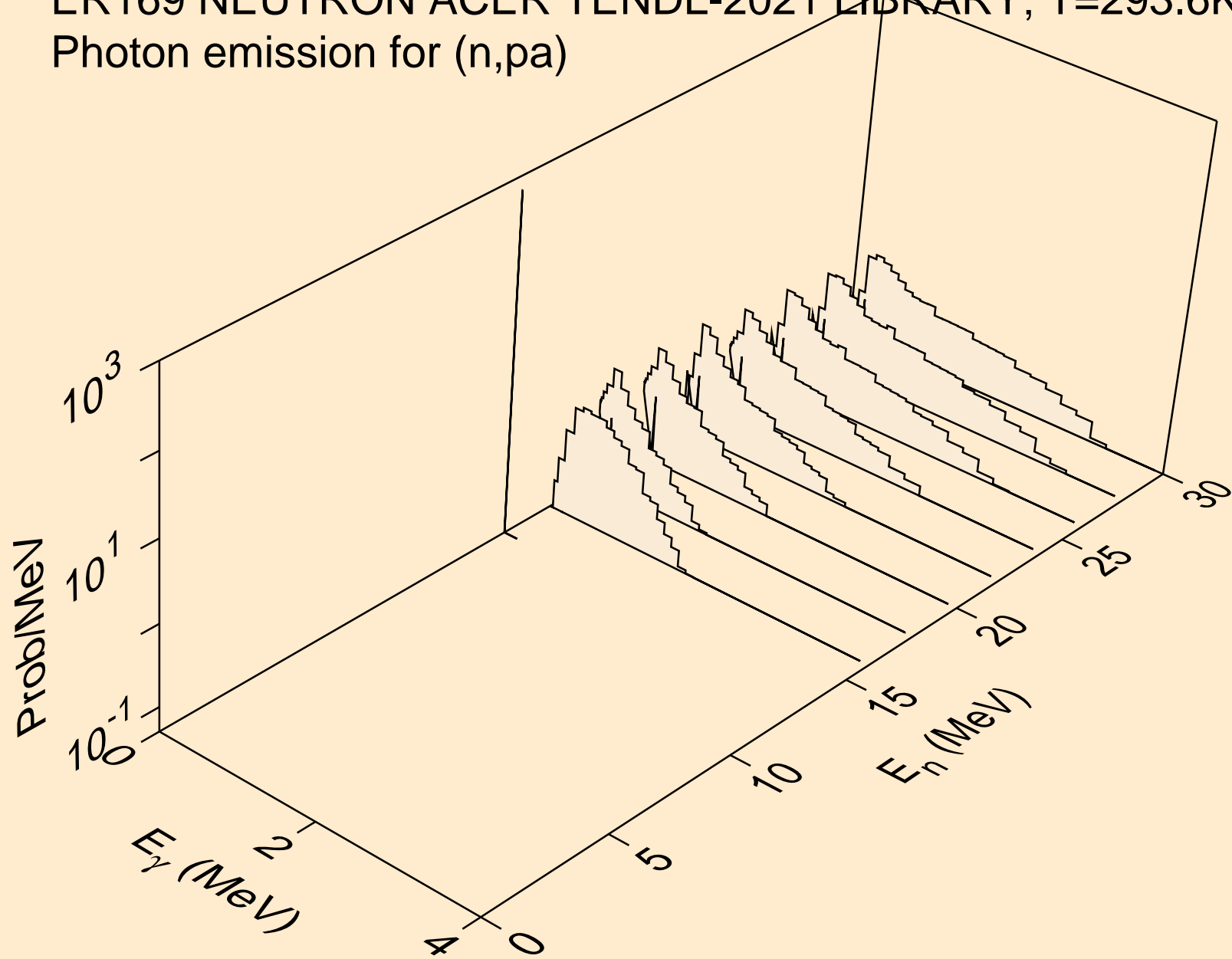
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Photon emission for (n,a)



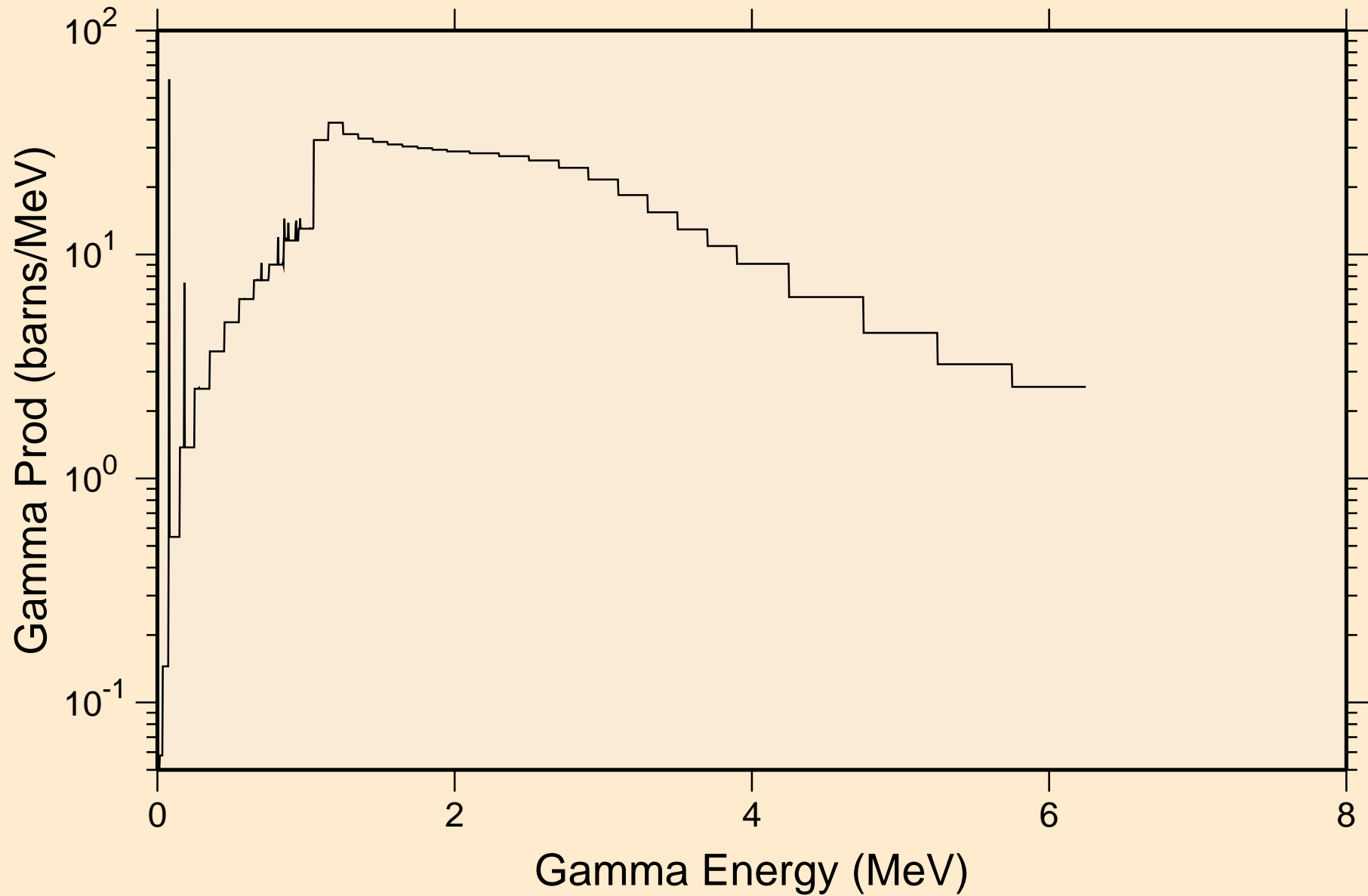
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Photon emission for (n,2p)



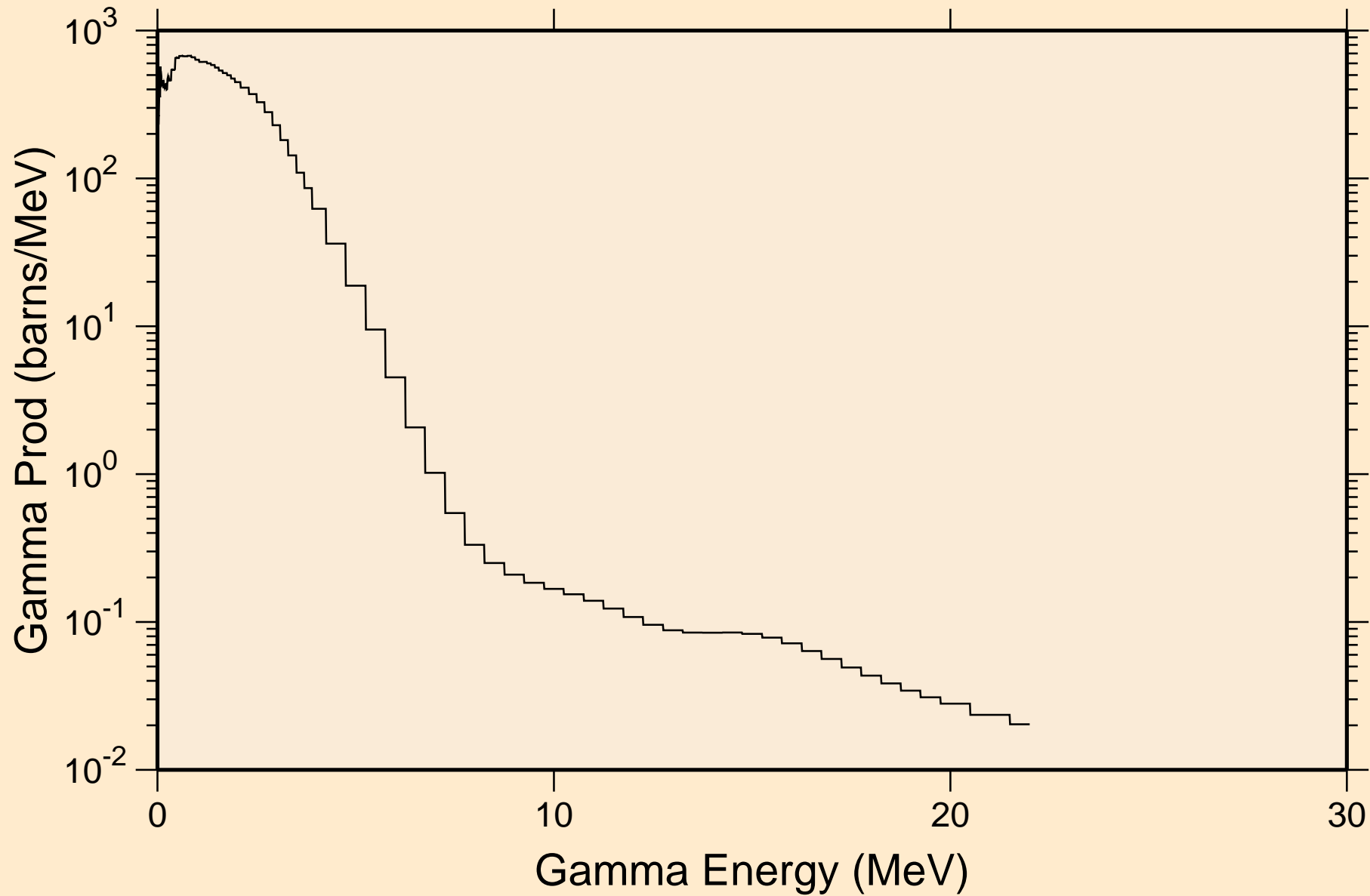
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Photon emission for (n,p $\alpha$ )



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thermal capture photon spectrum

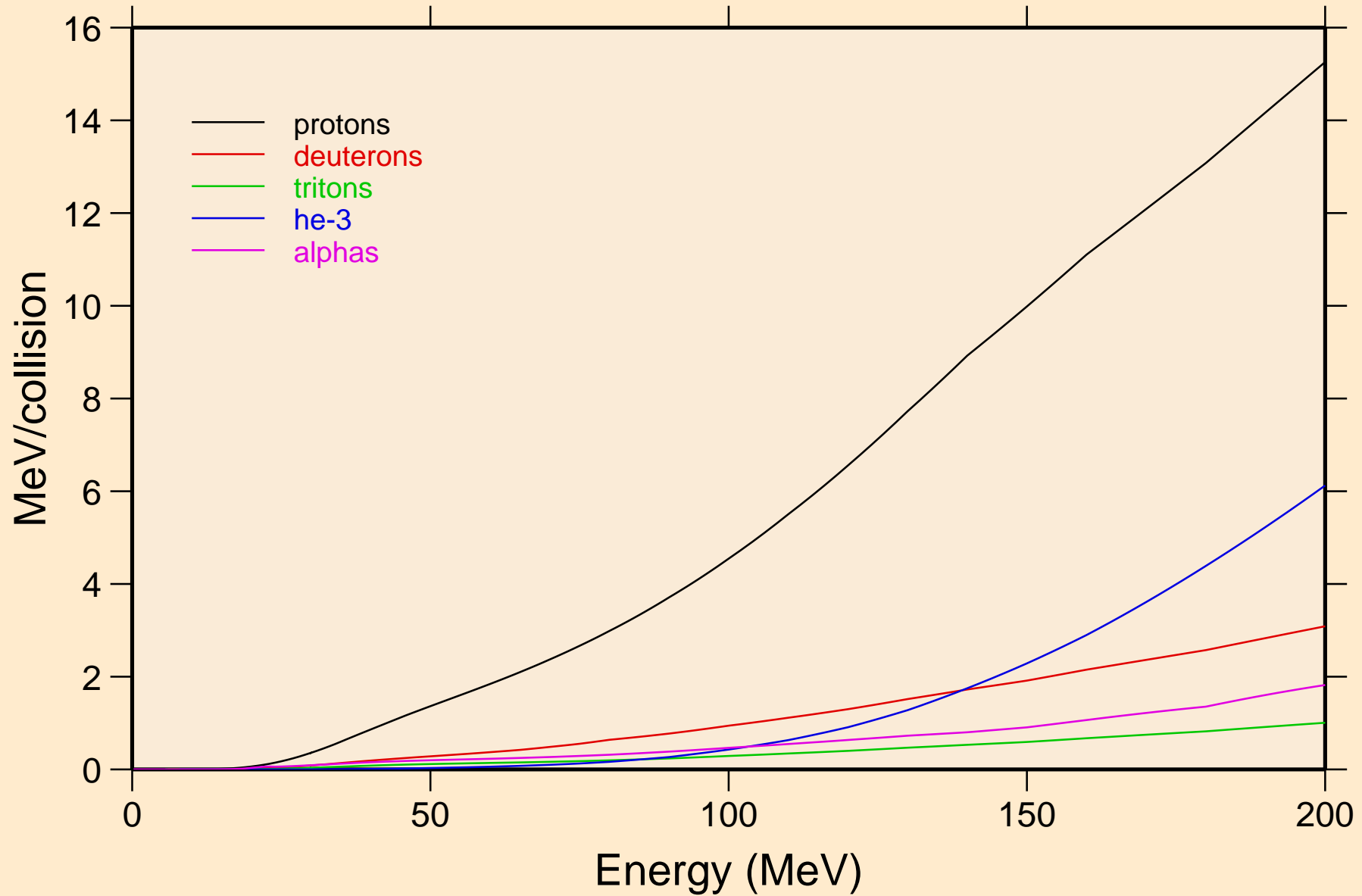


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14 MeV photon spectrum

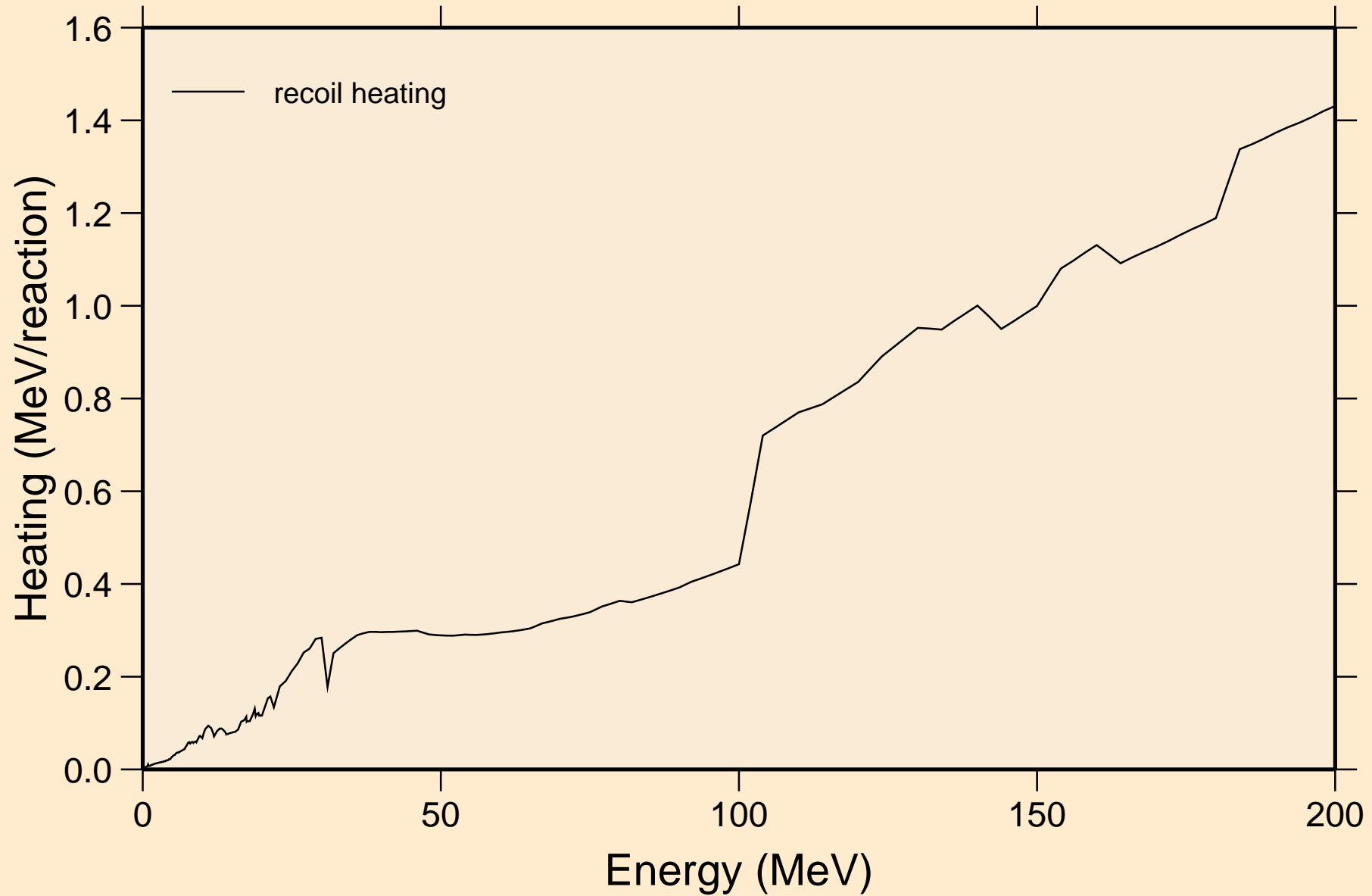


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## Particle heating contributions

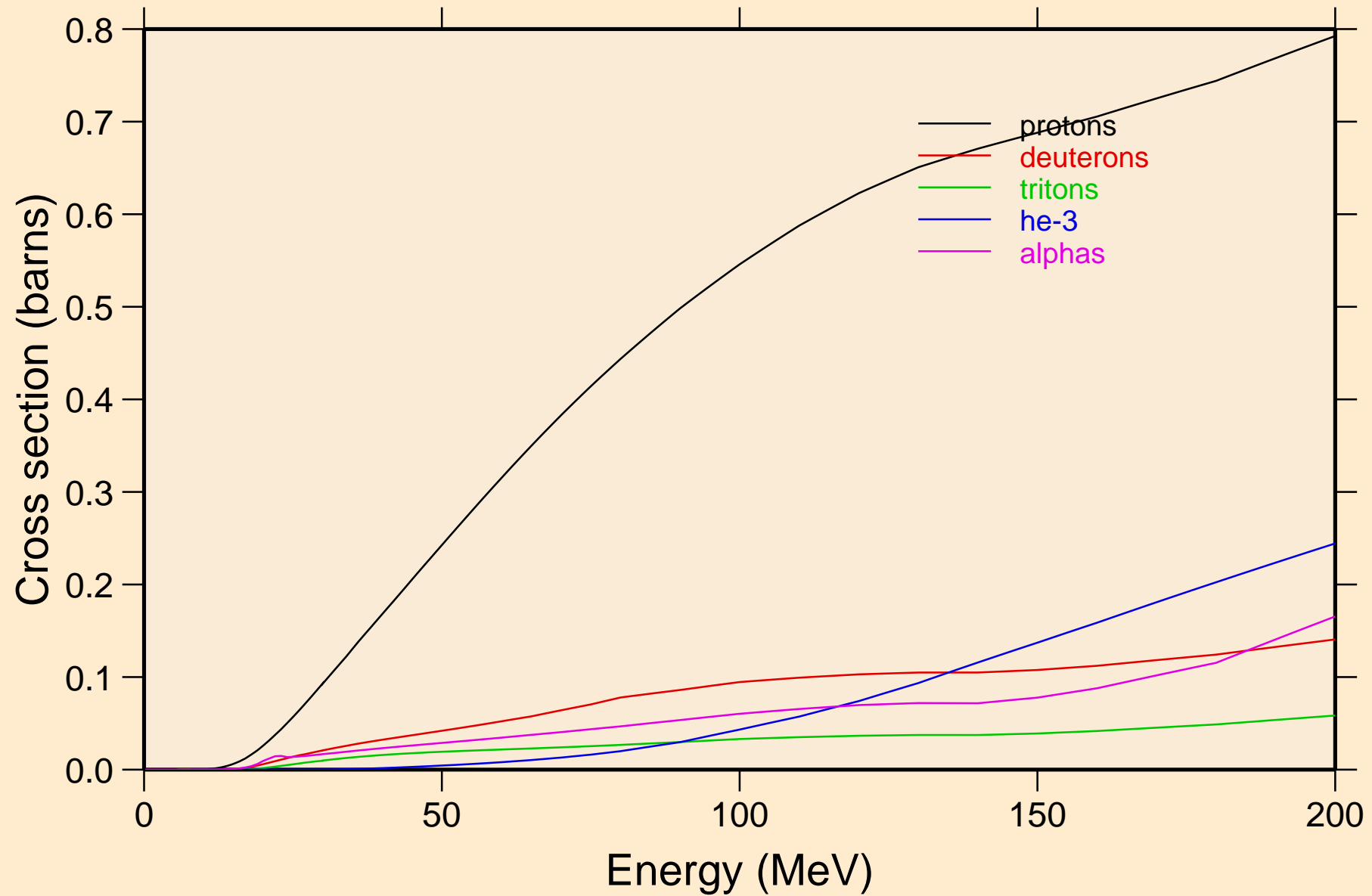


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Recoil Heating

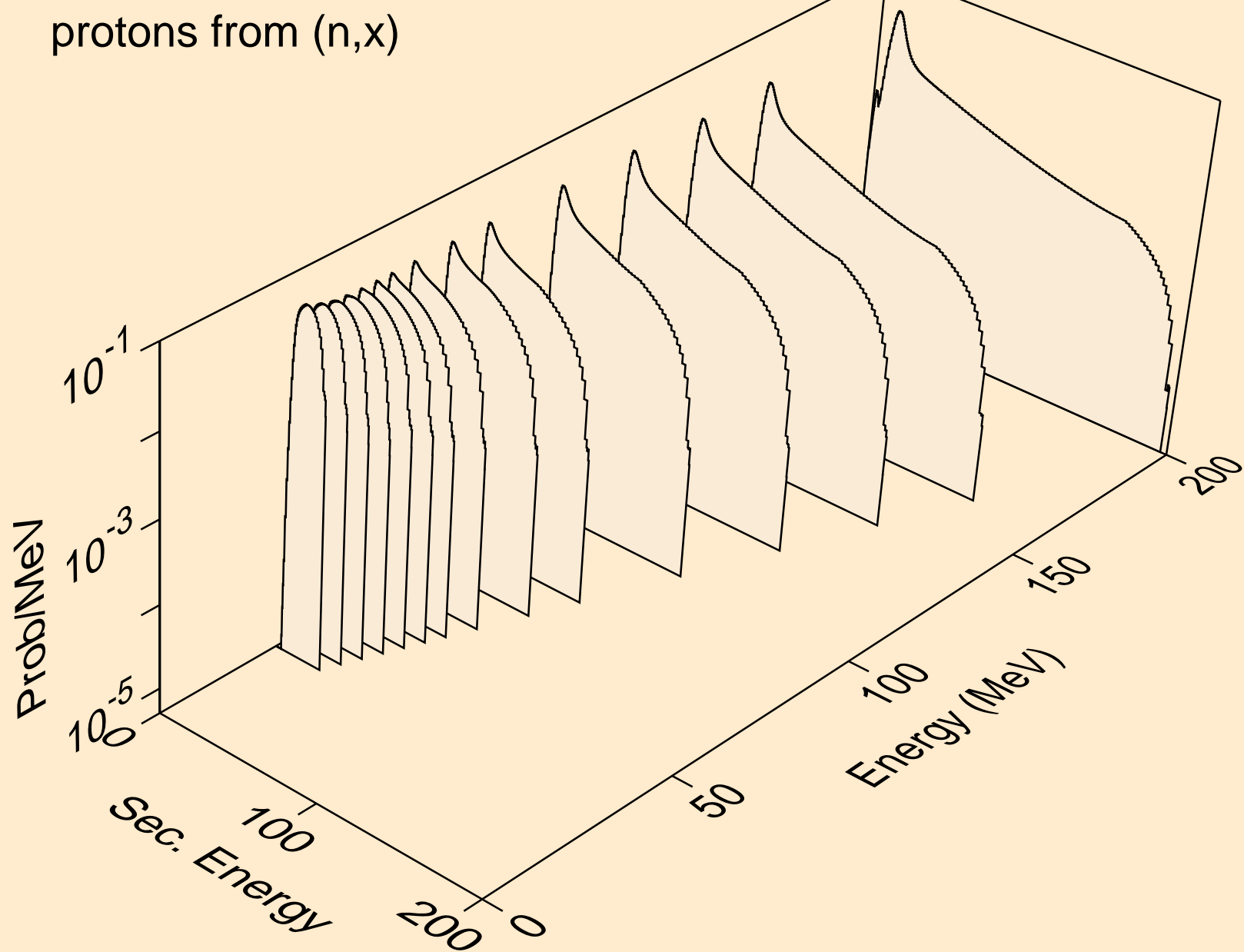




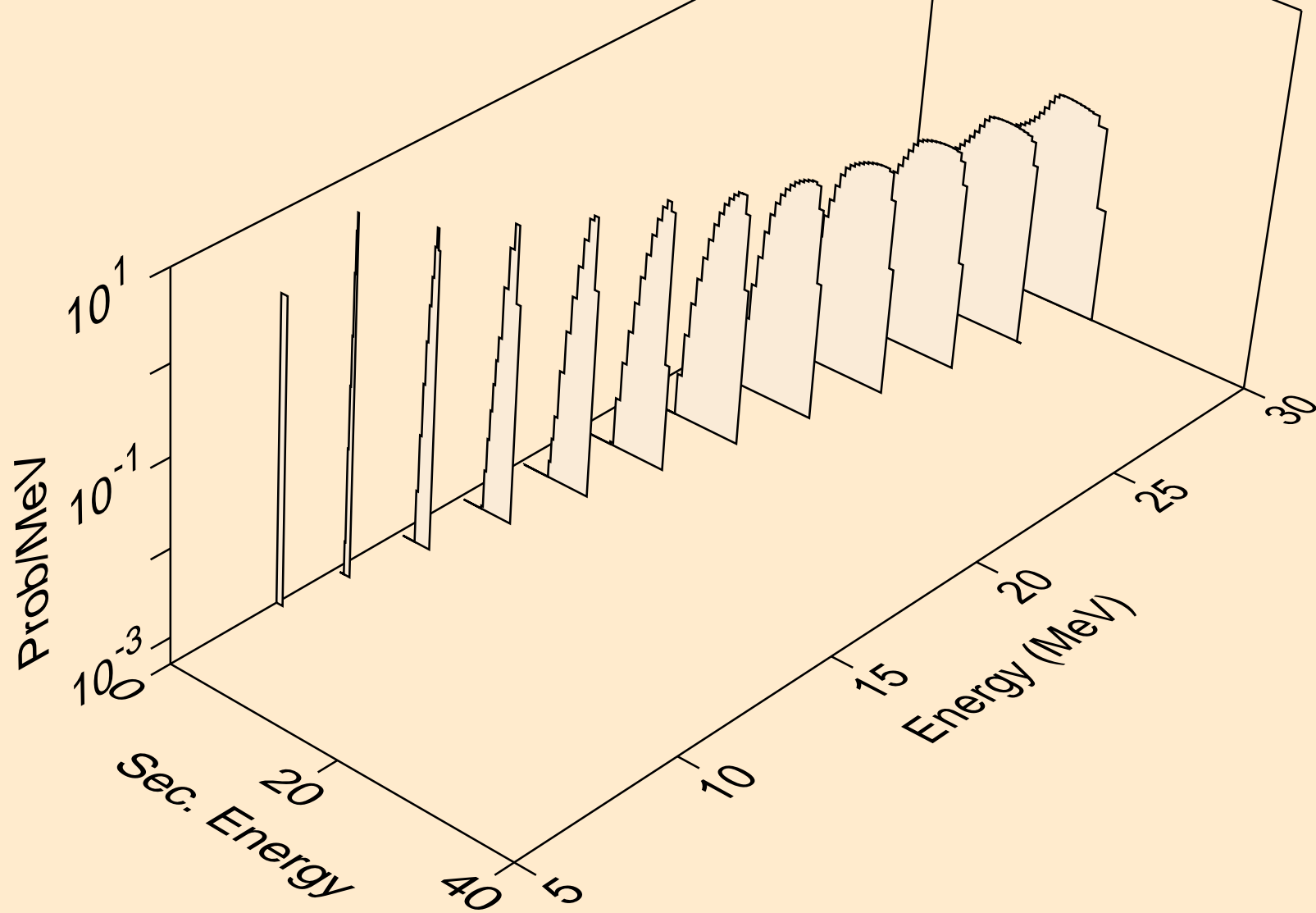
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Particle production cross sections



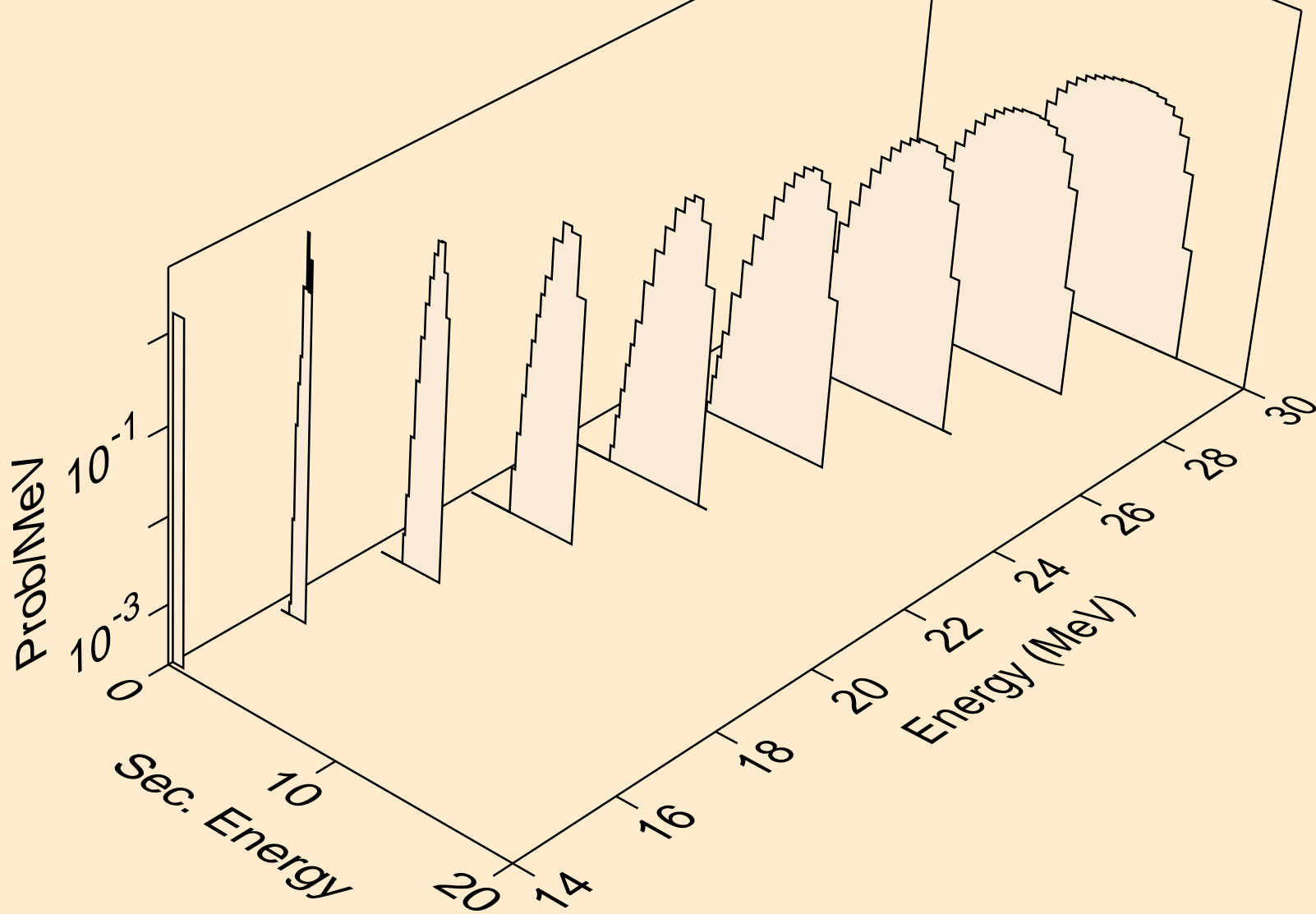
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protons from (n,x)



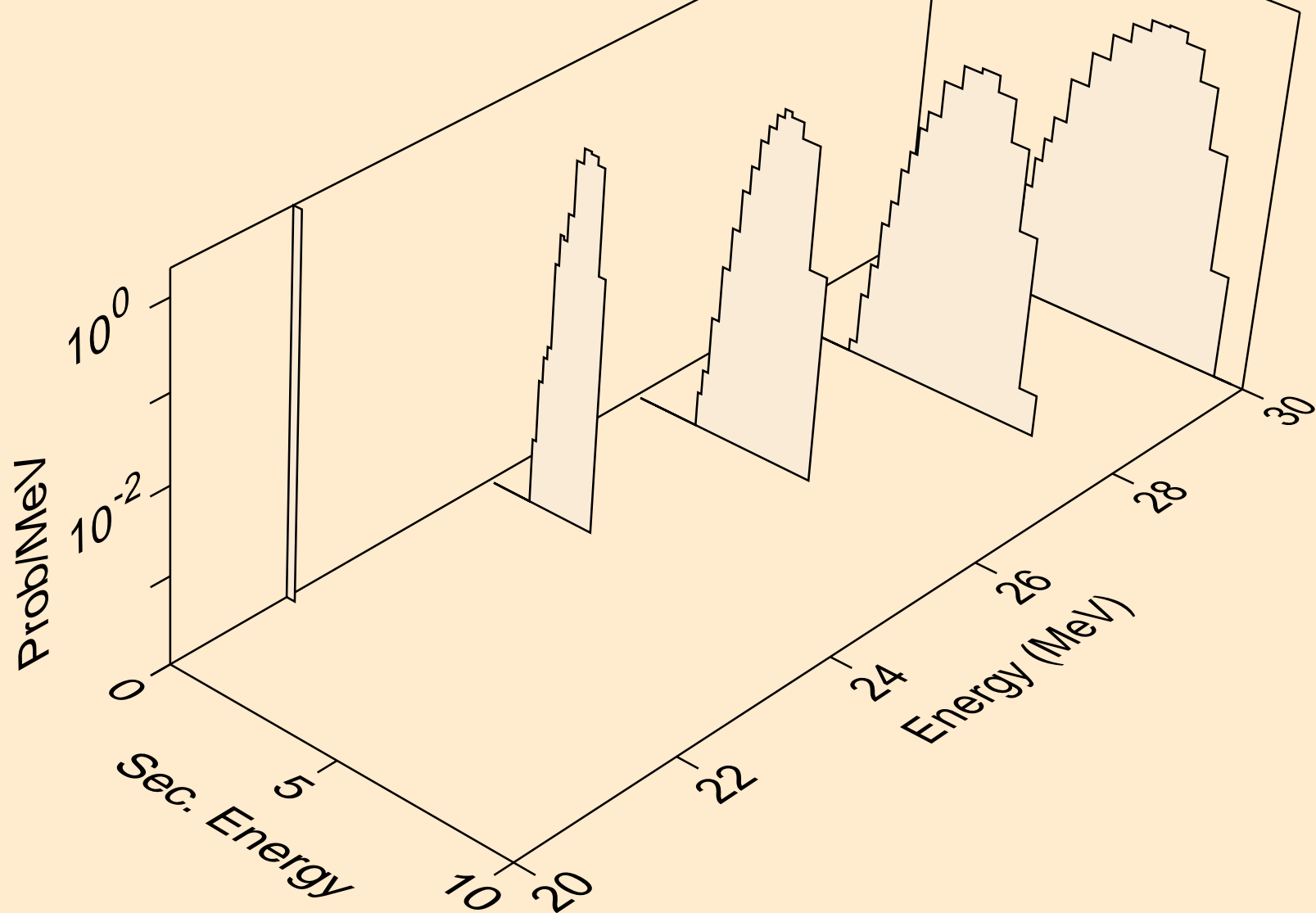
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protons from (n,n\*)p



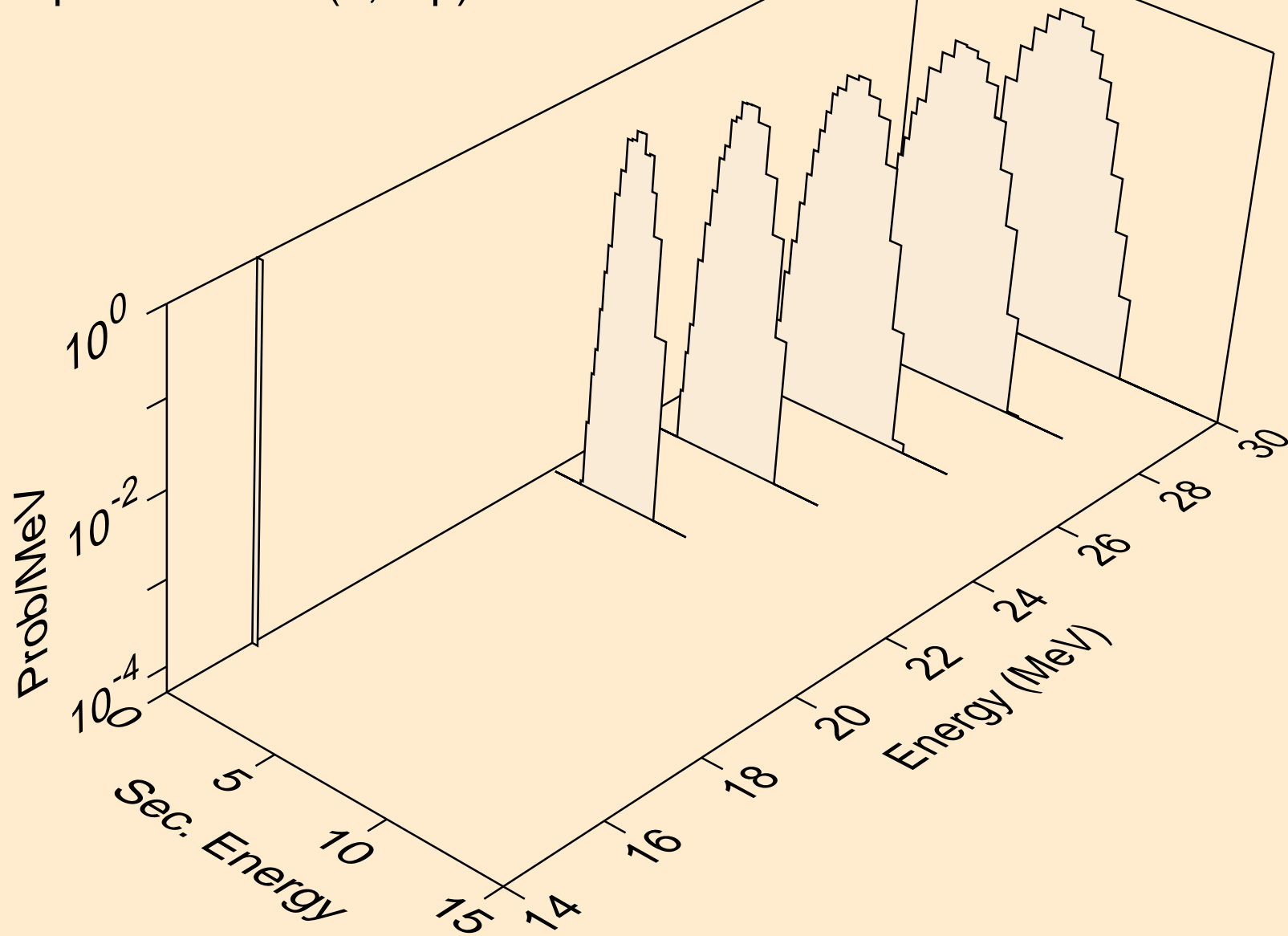
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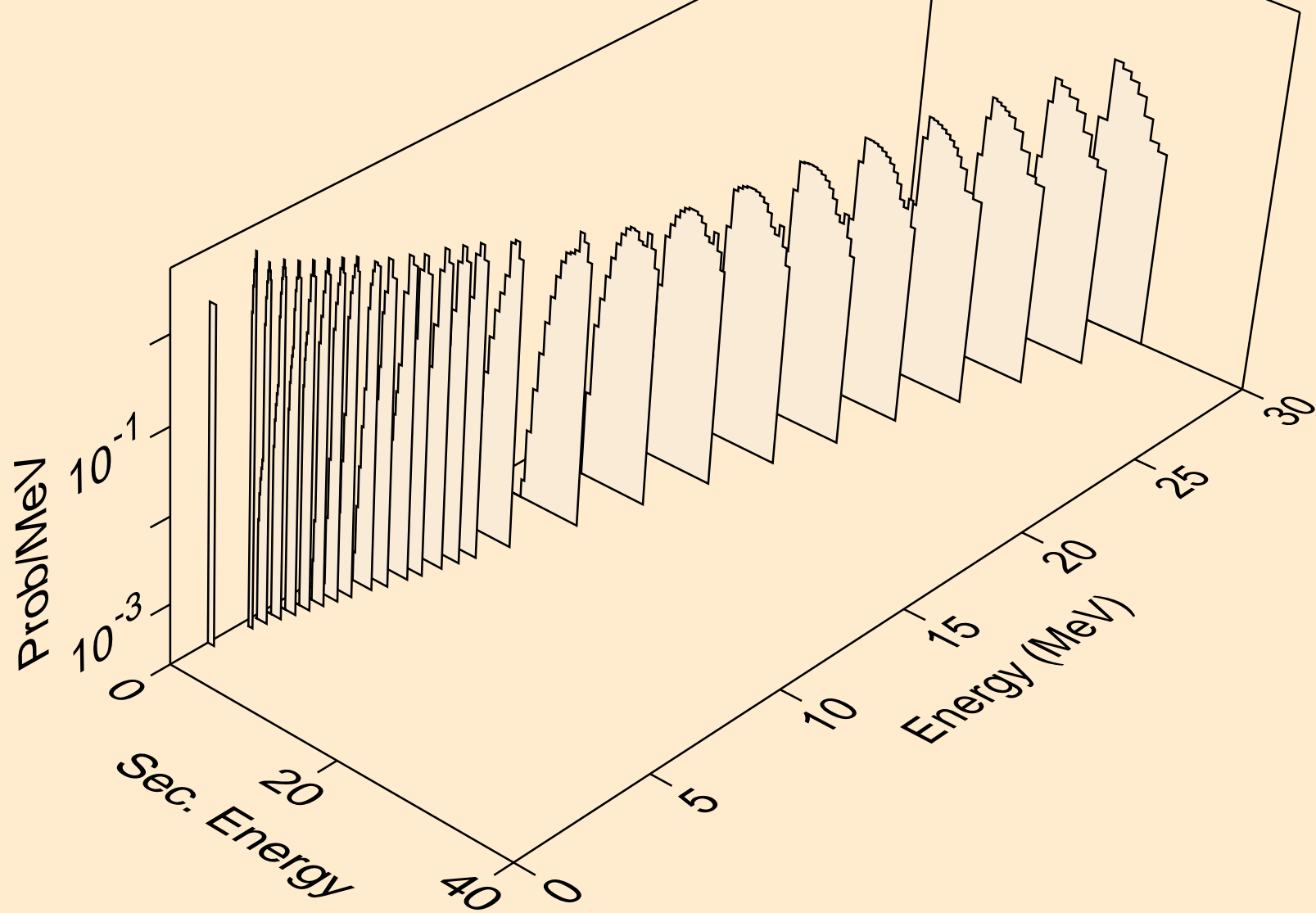
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protons from (n,3np)



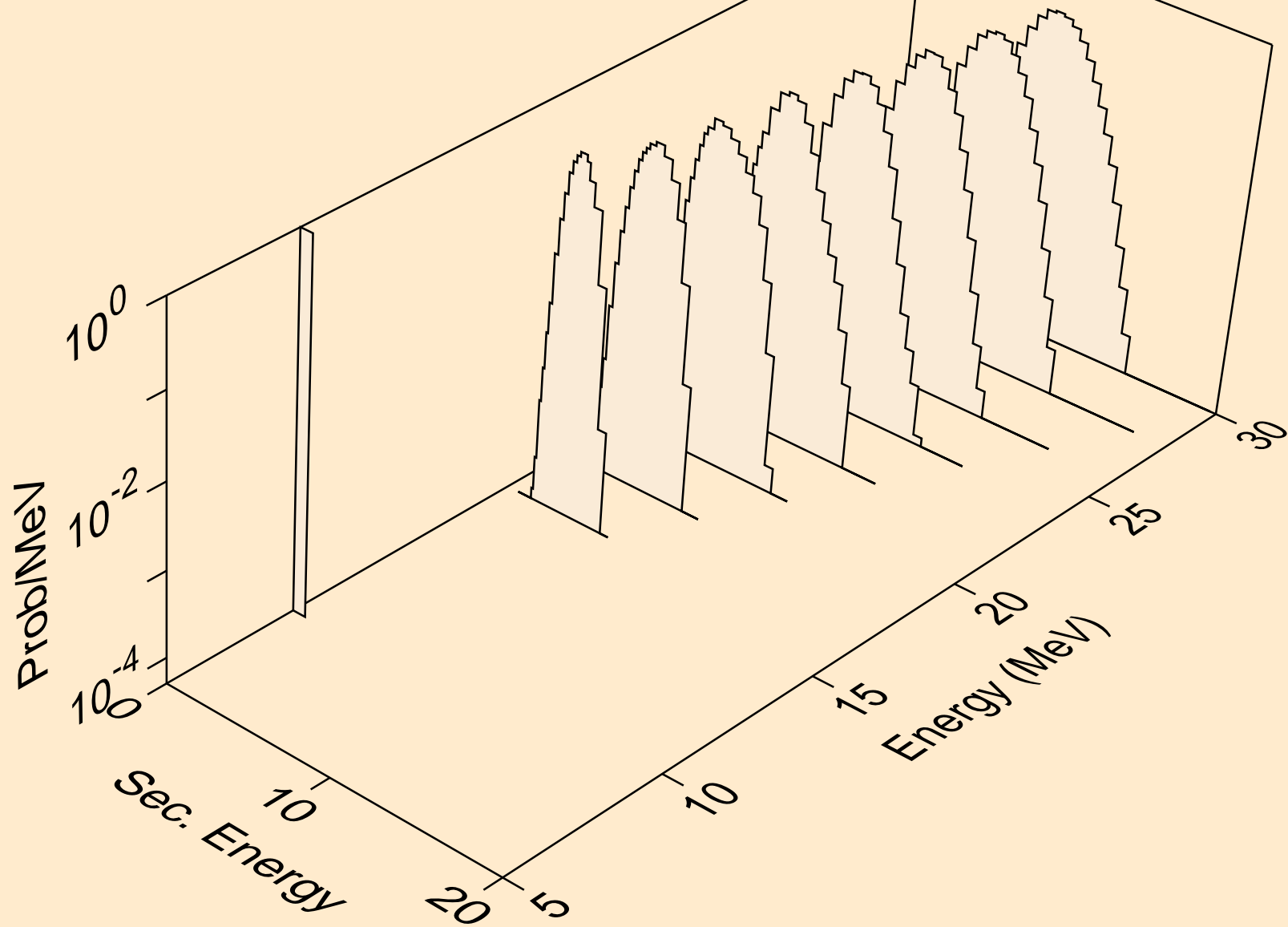
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protons from (n,2np)



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protons from (n,p)

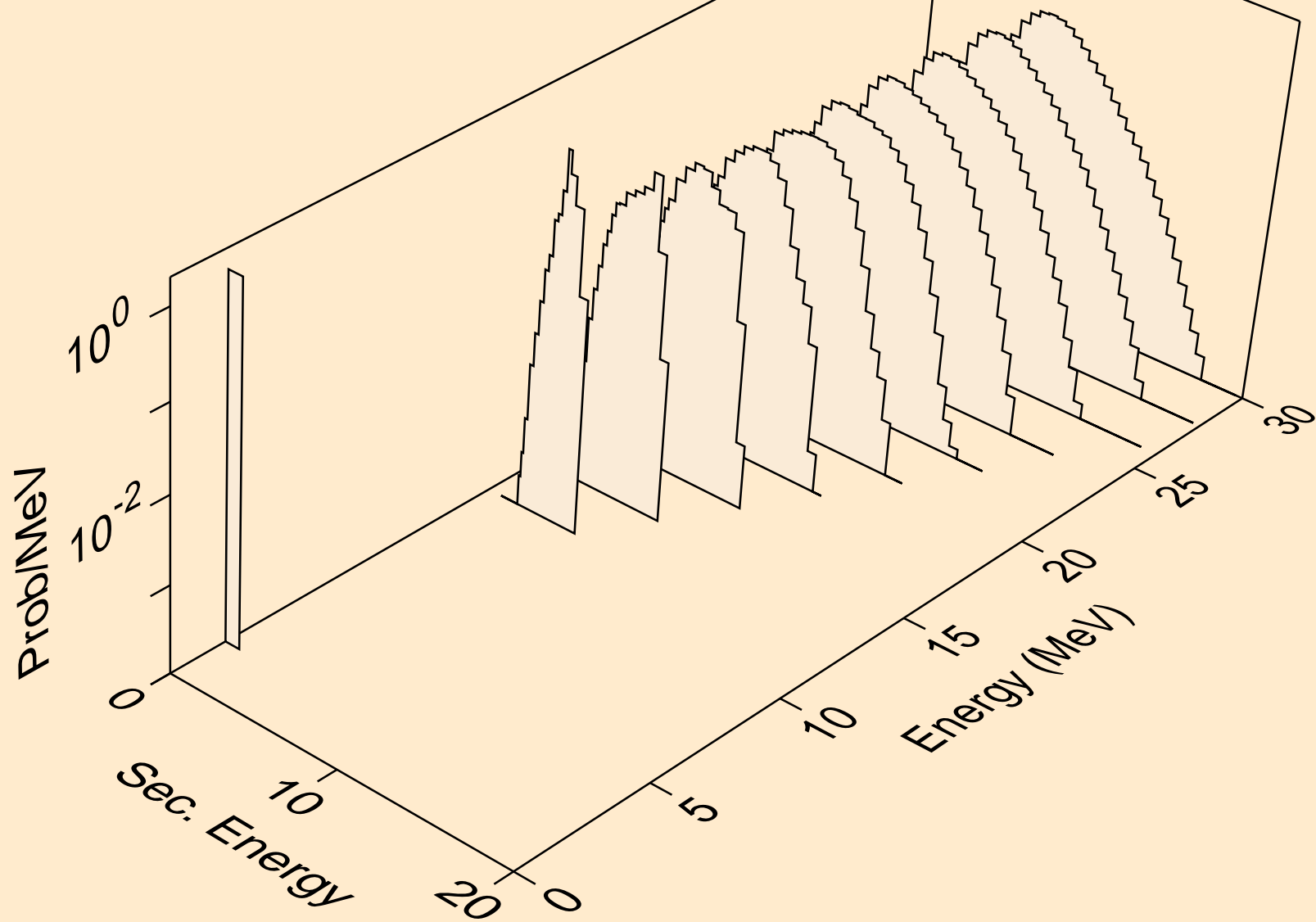


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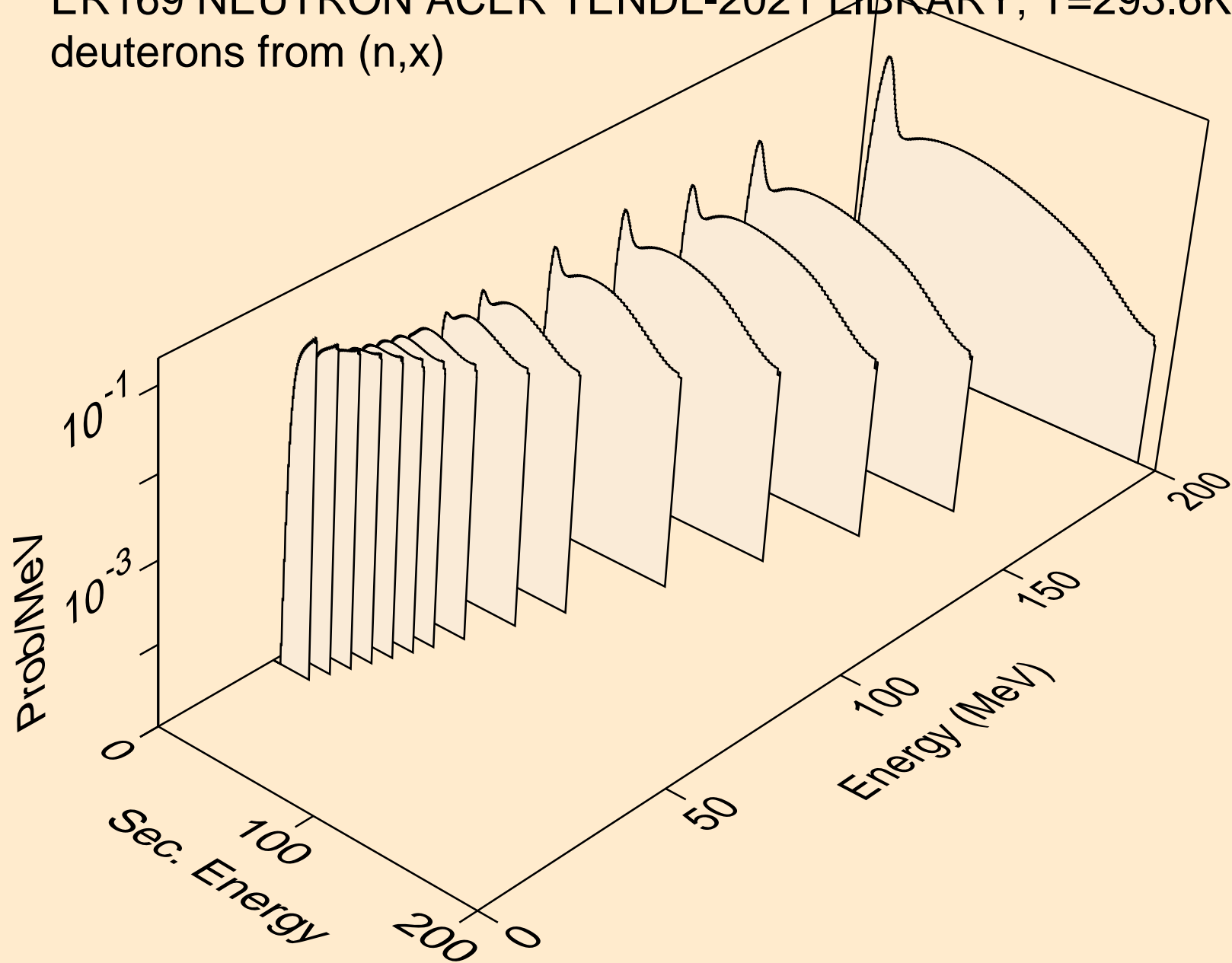




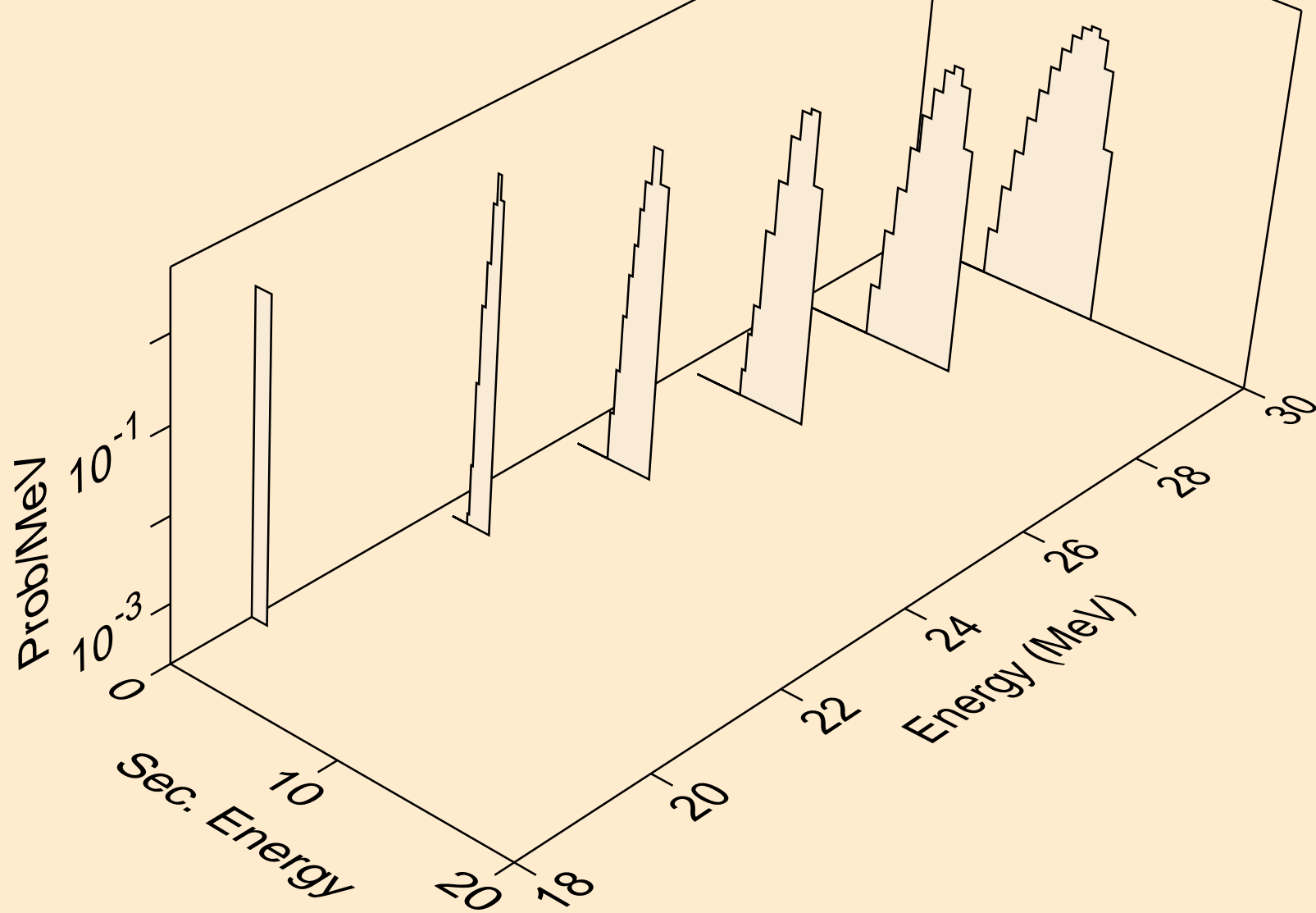
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protons from (n,p)



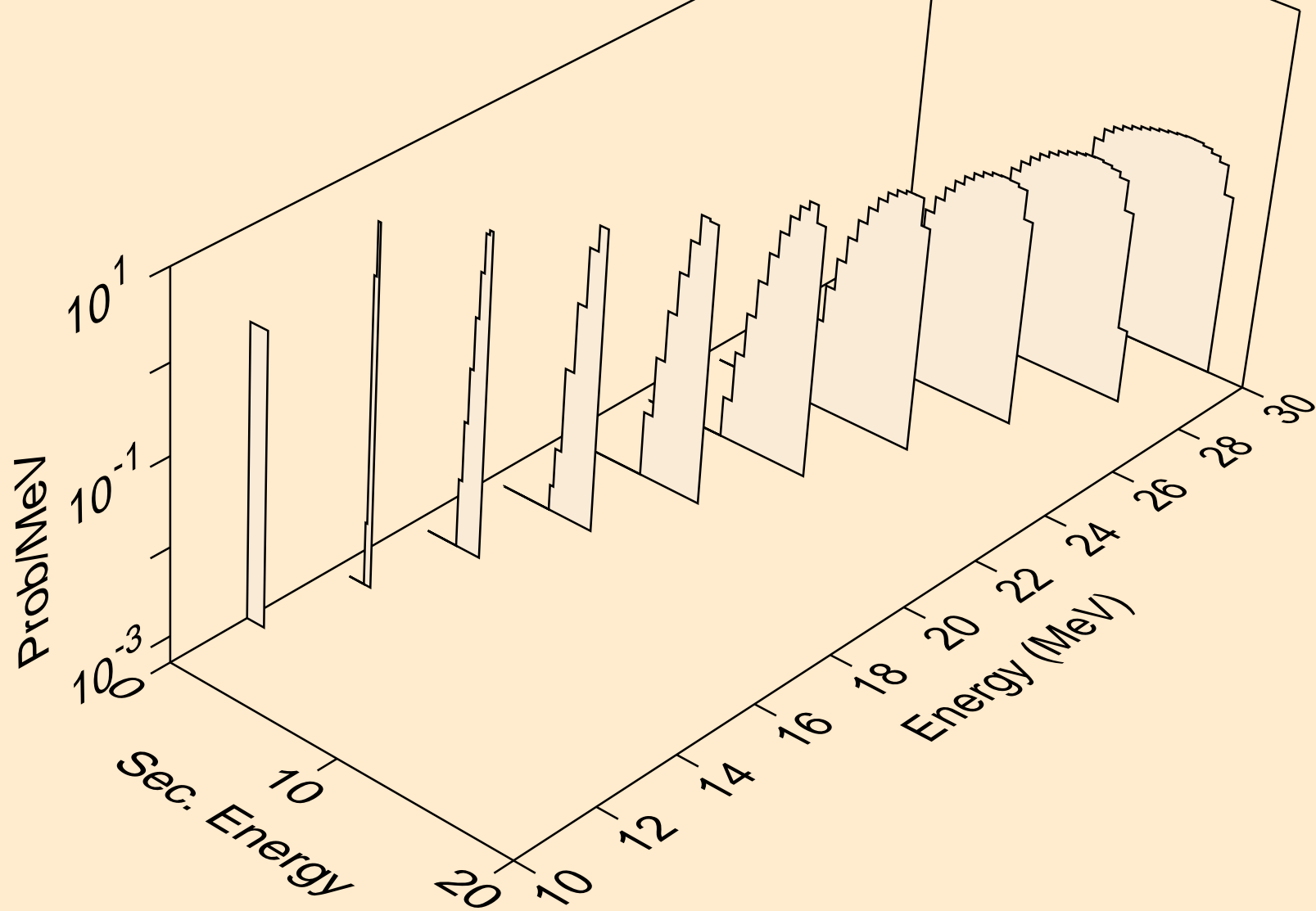
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deuterons from (n,x)



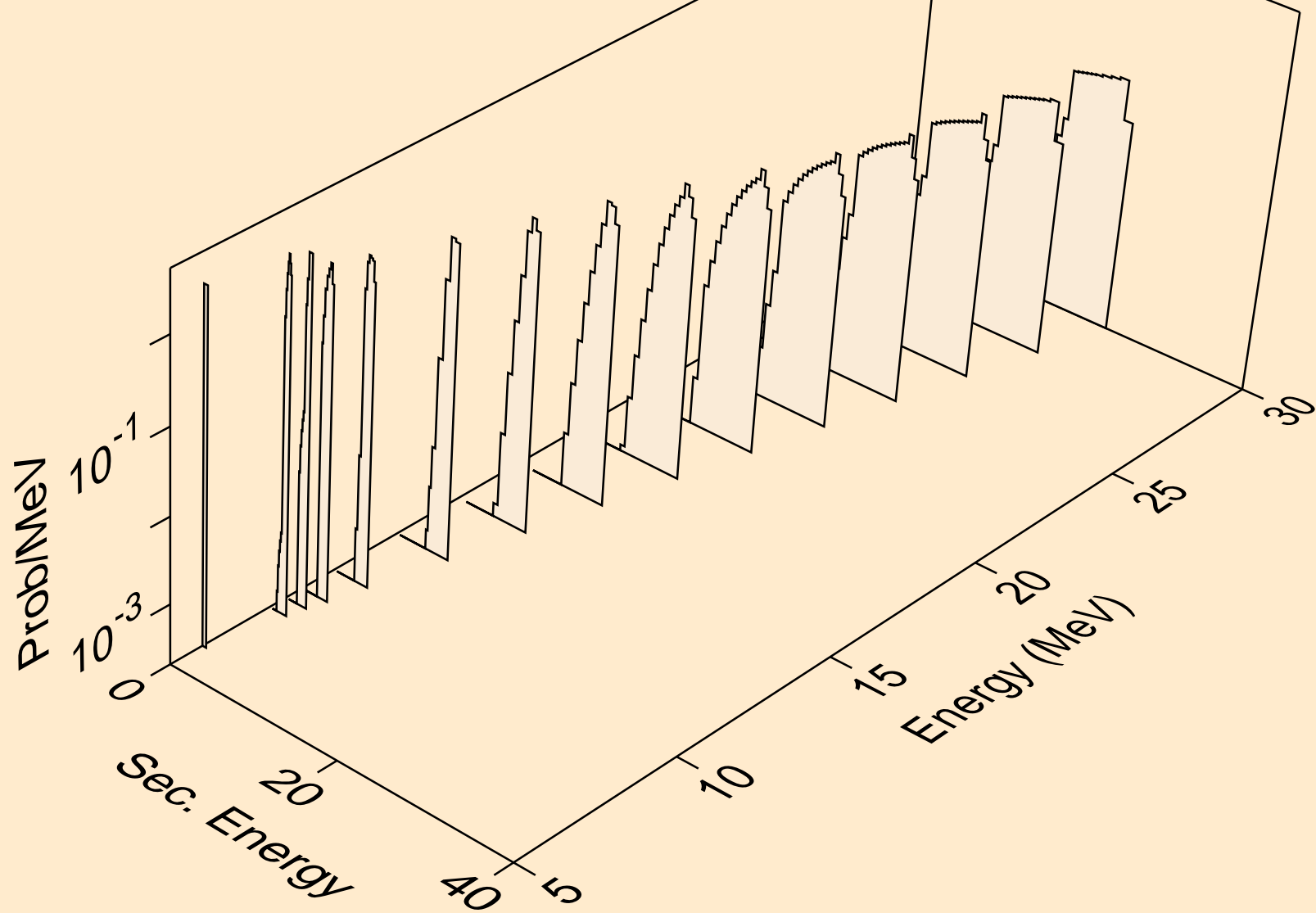
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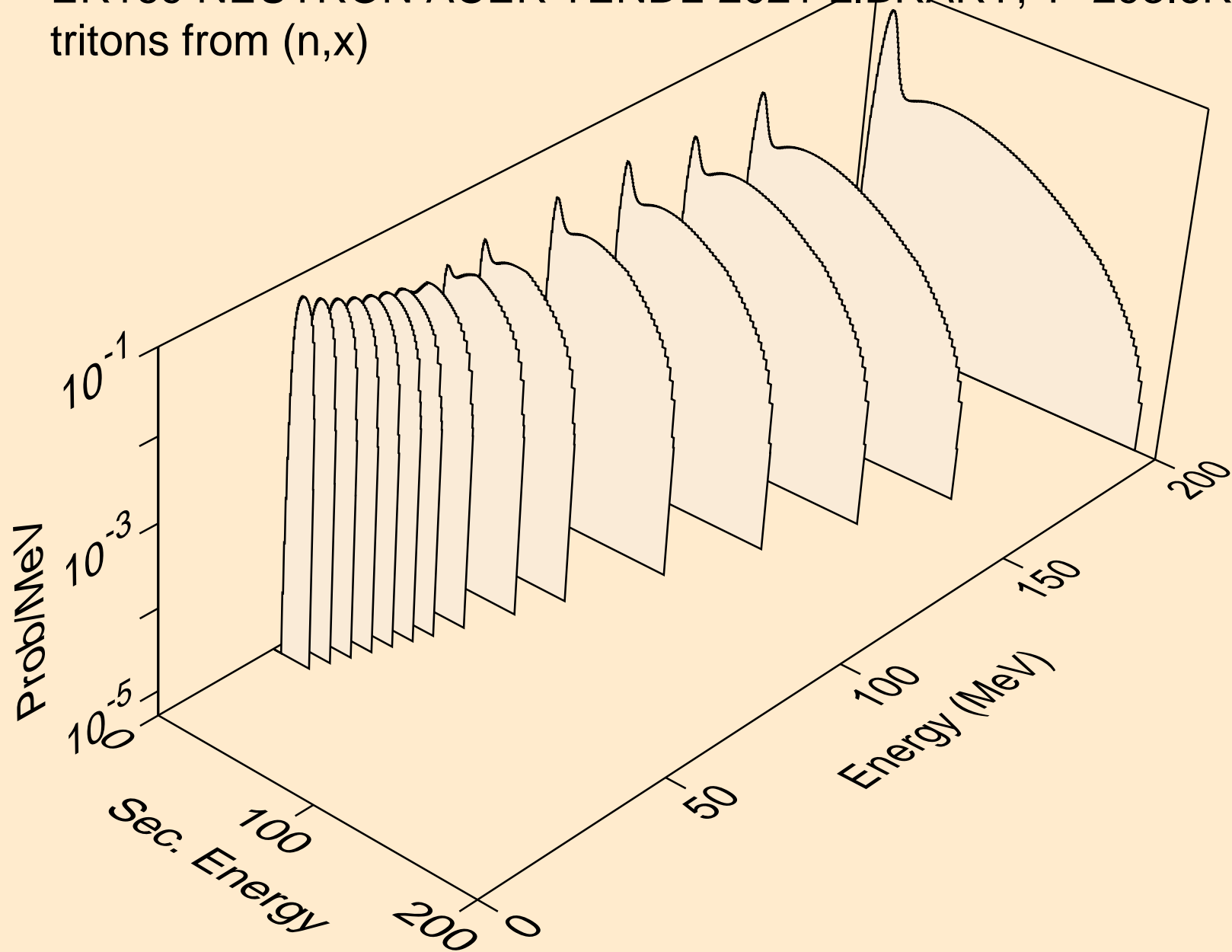
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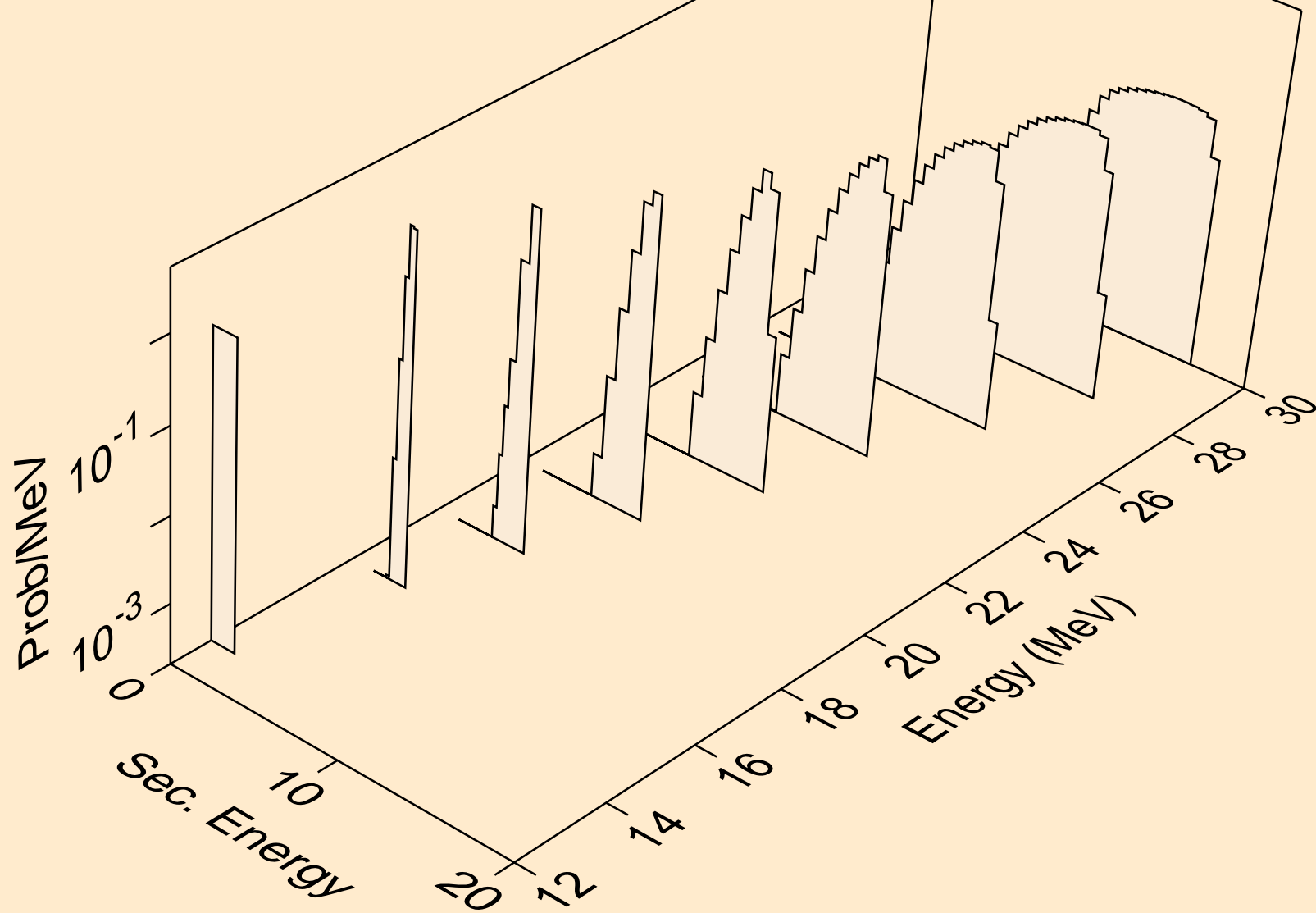
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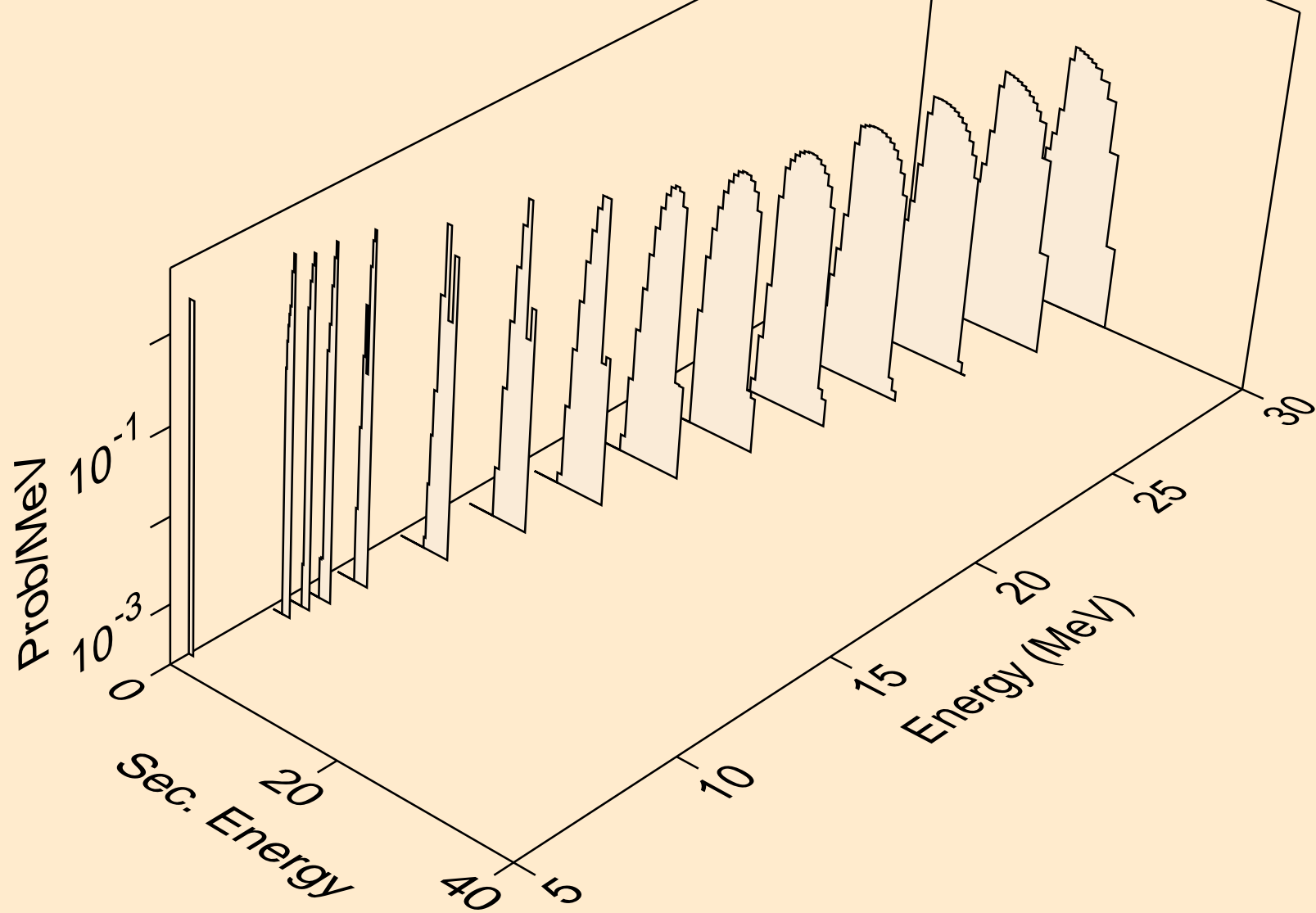
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tritons from (n,x)



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t

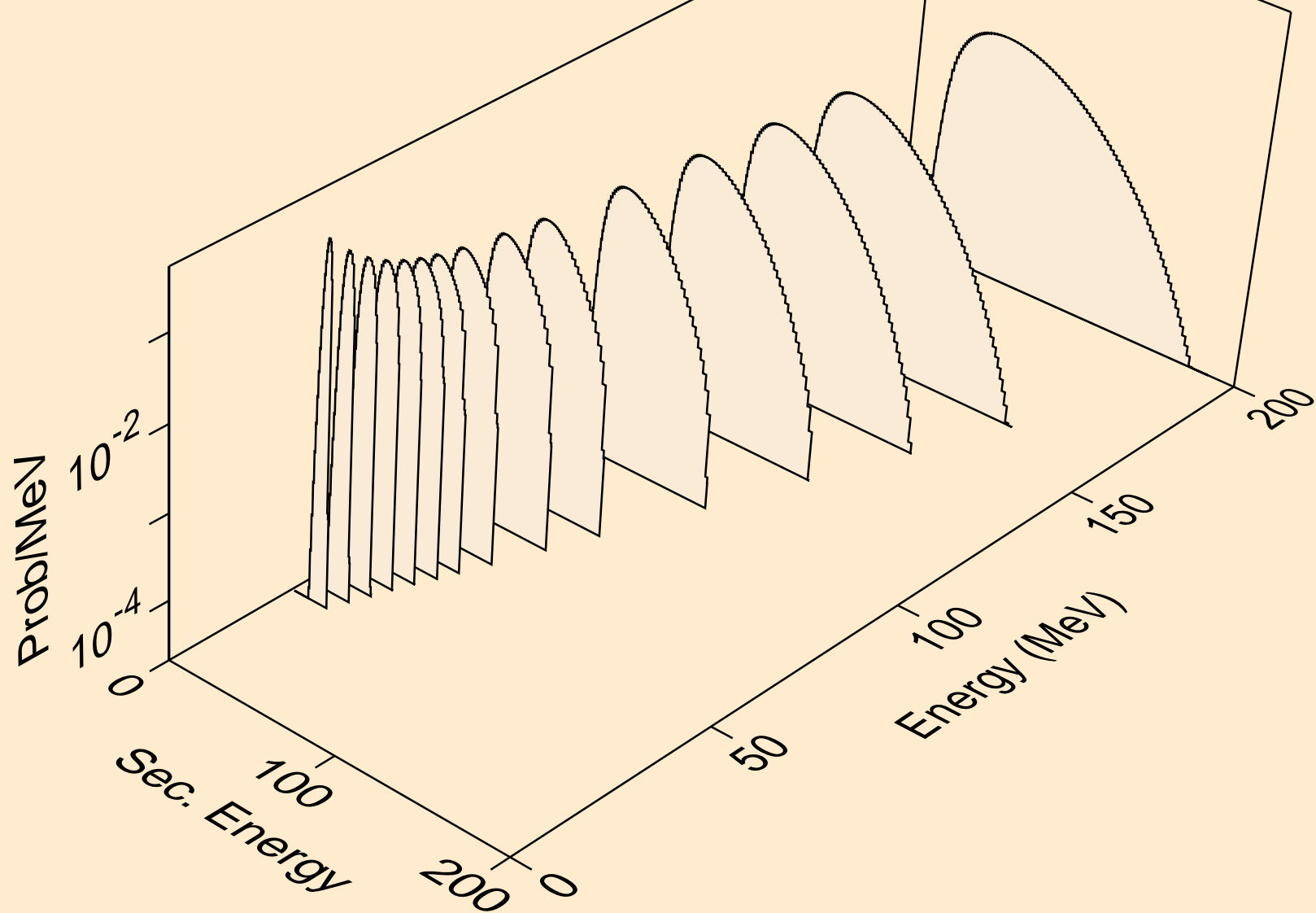


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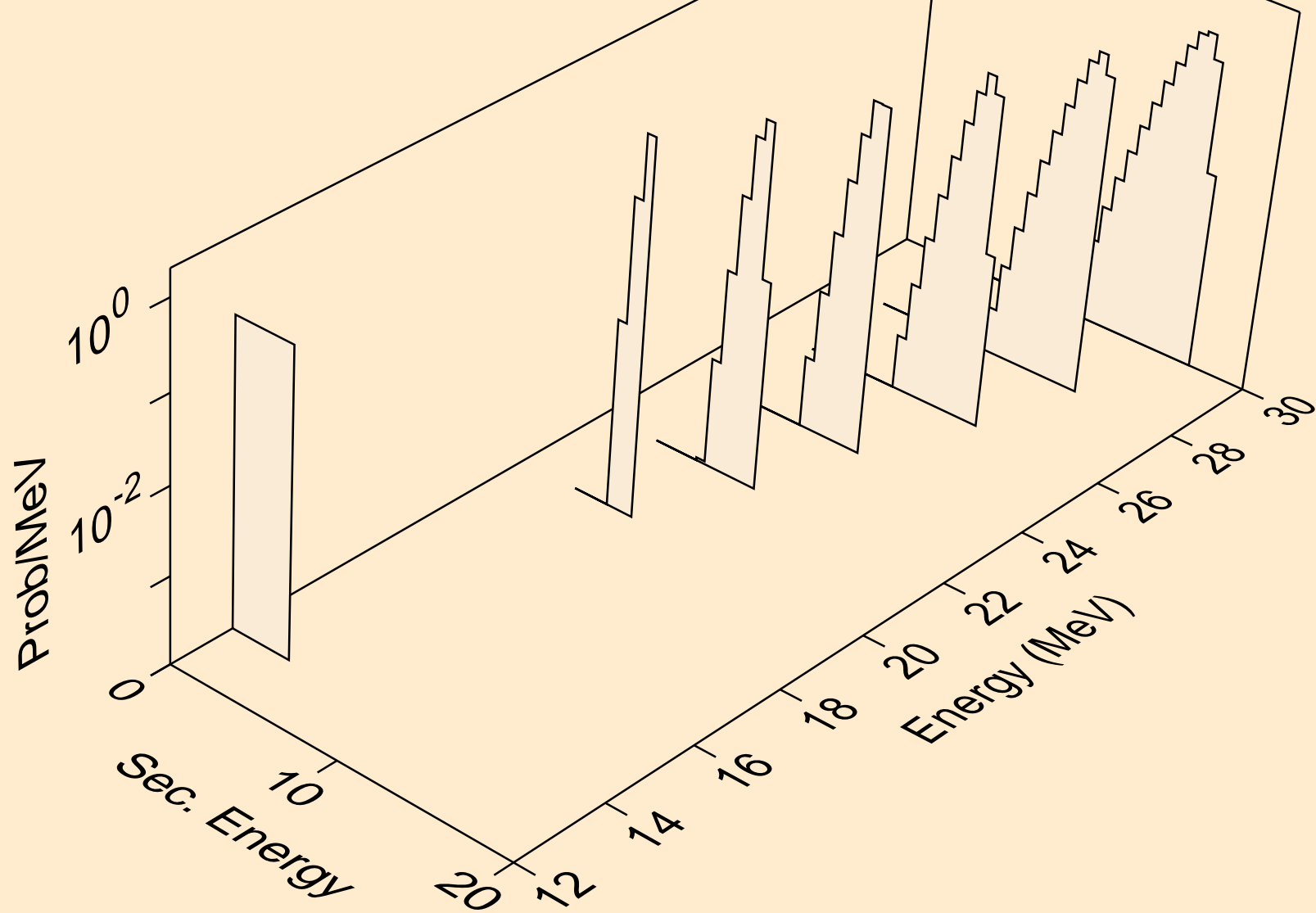




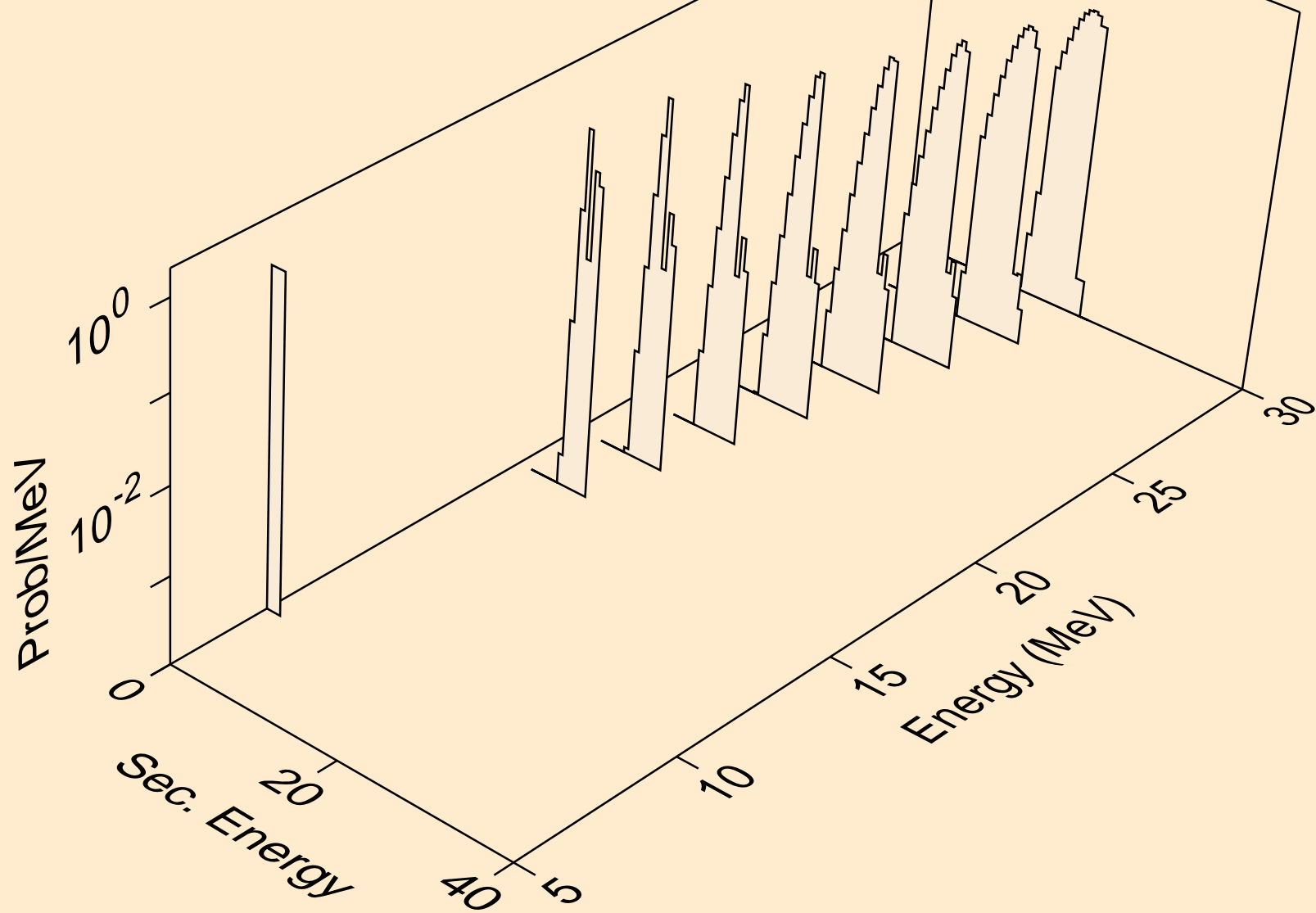
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he3s from (n,x)



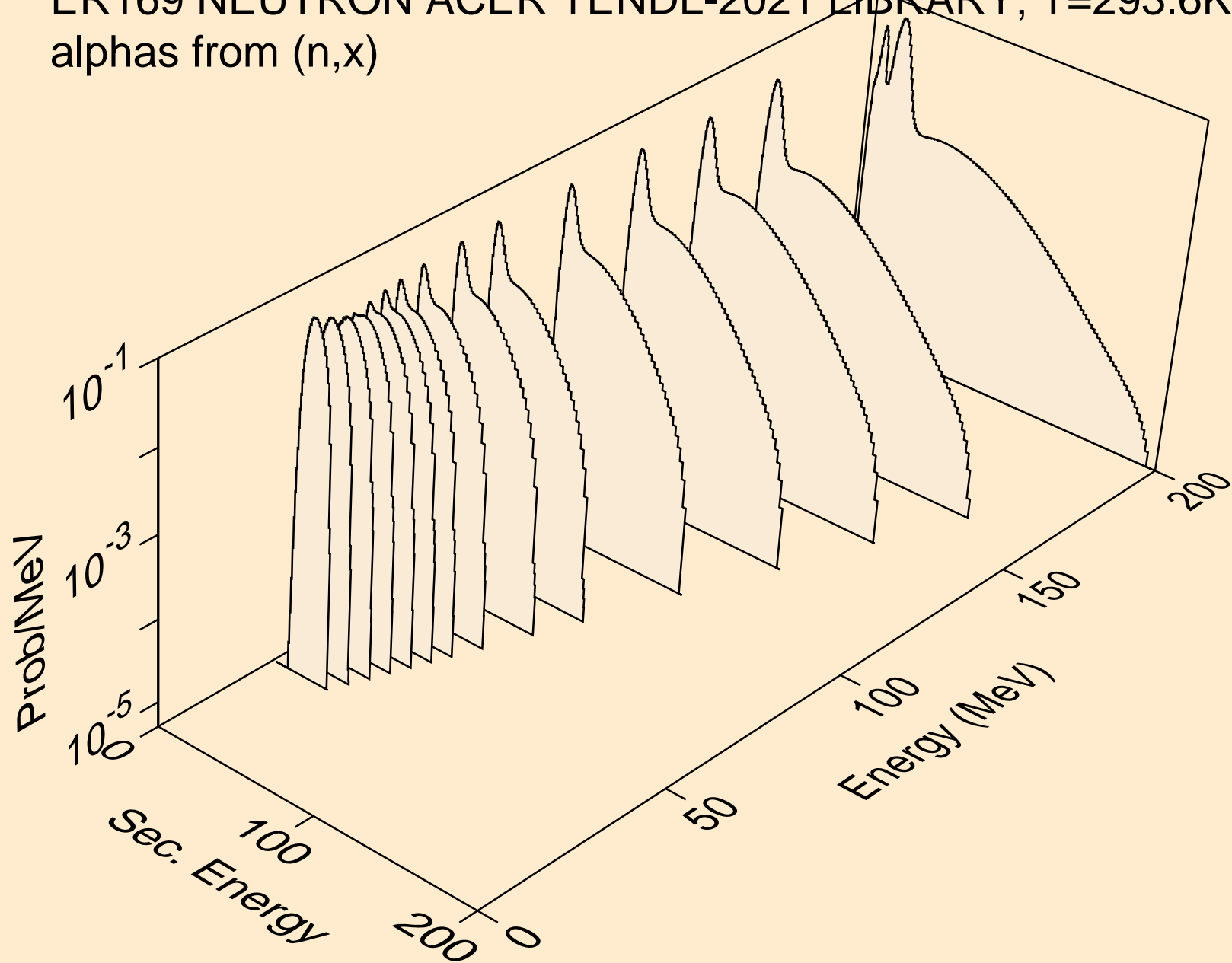
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he3s from (n,n\*)he3



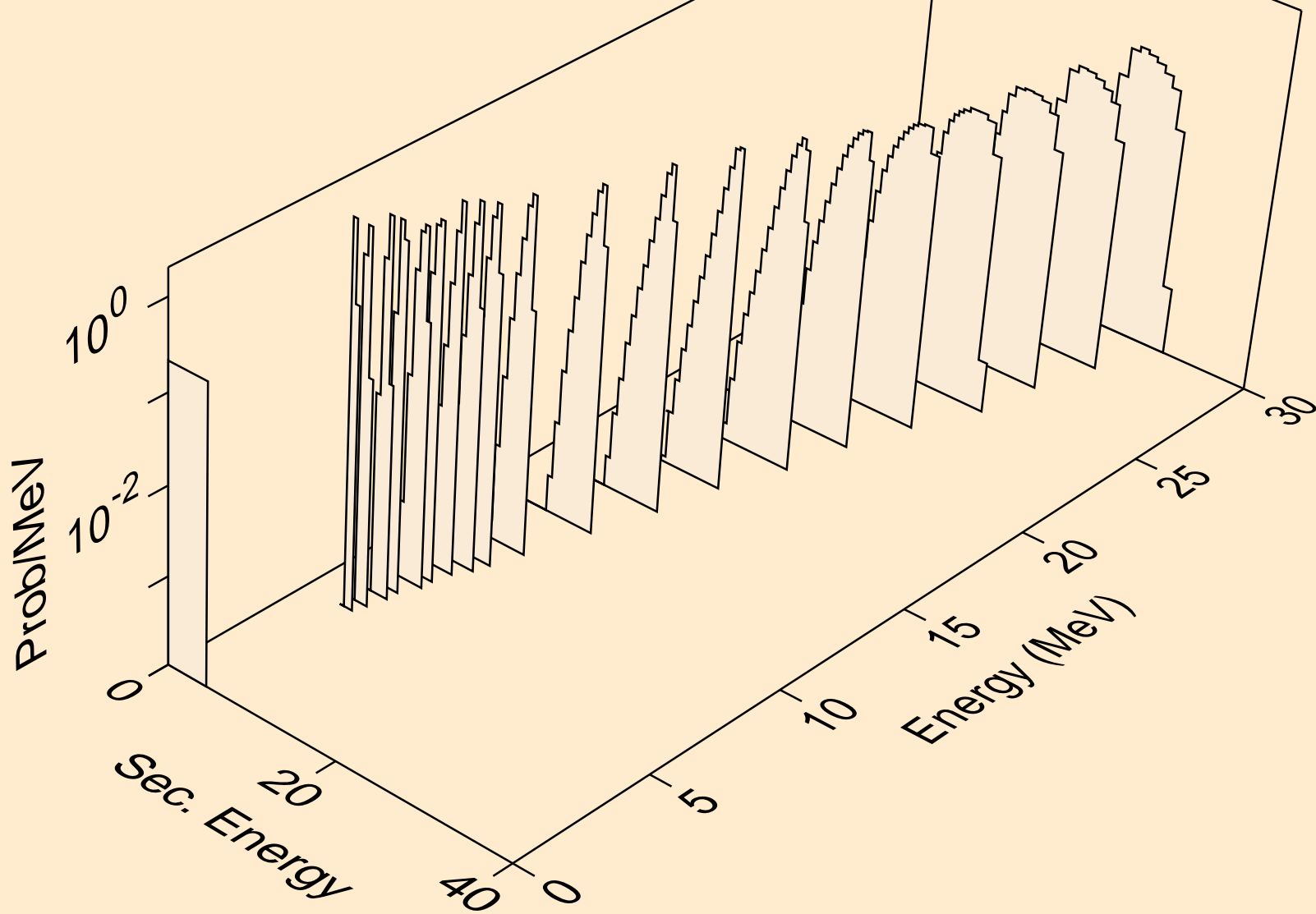
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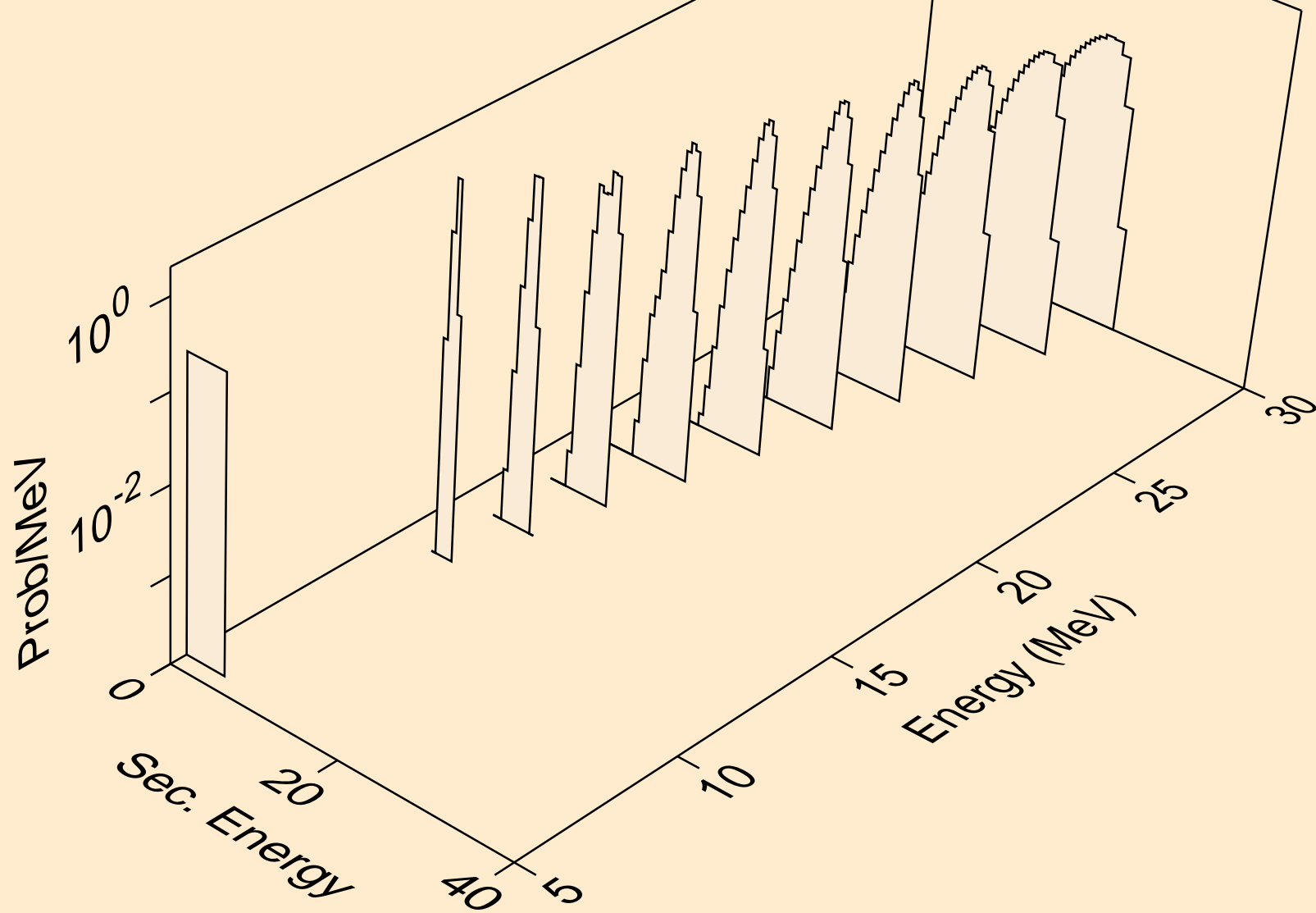
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alphas from (n,x)



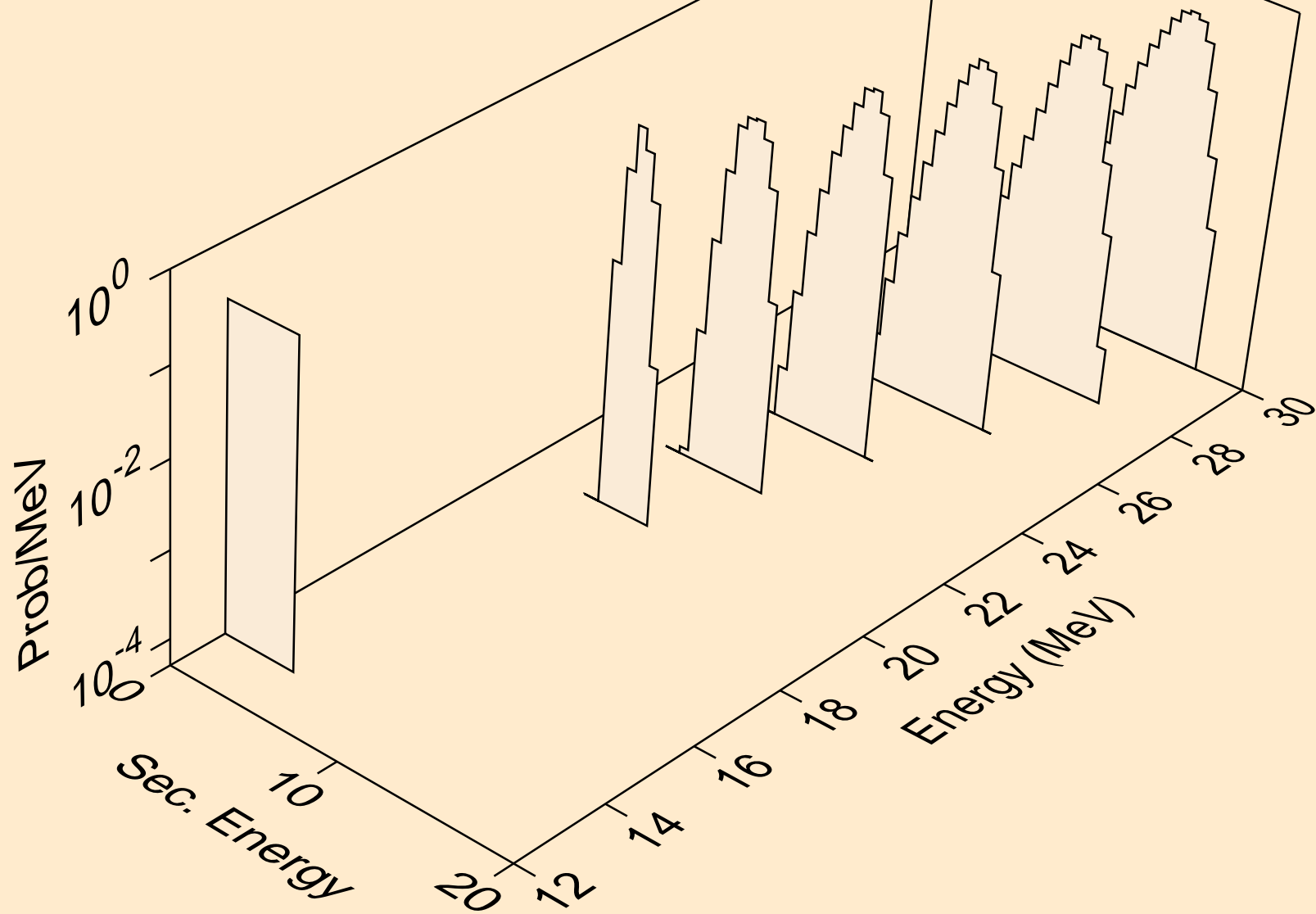
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alphas from (n,n\*)a



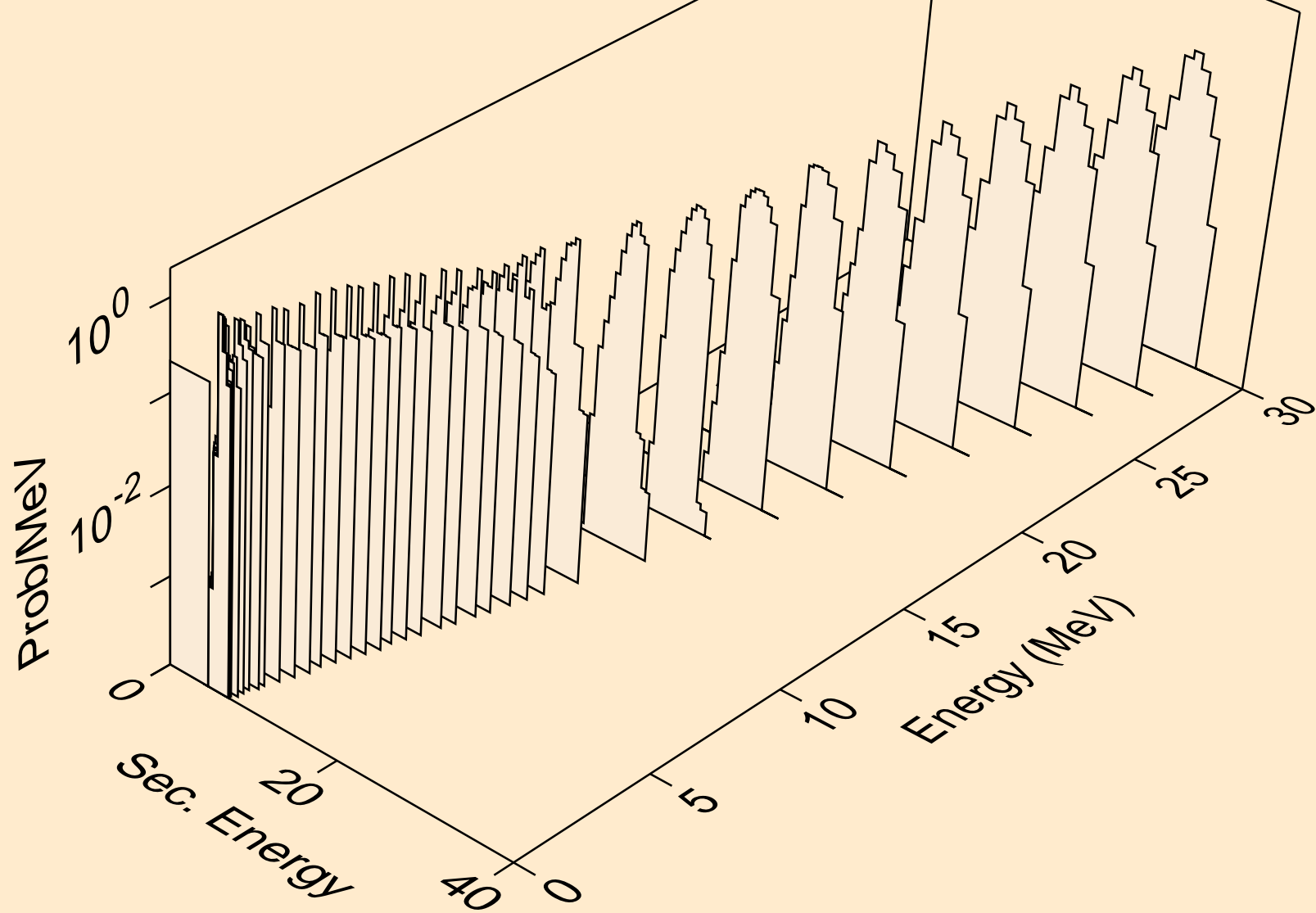
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alphas from (n,2n)a



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)





ER169 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)

