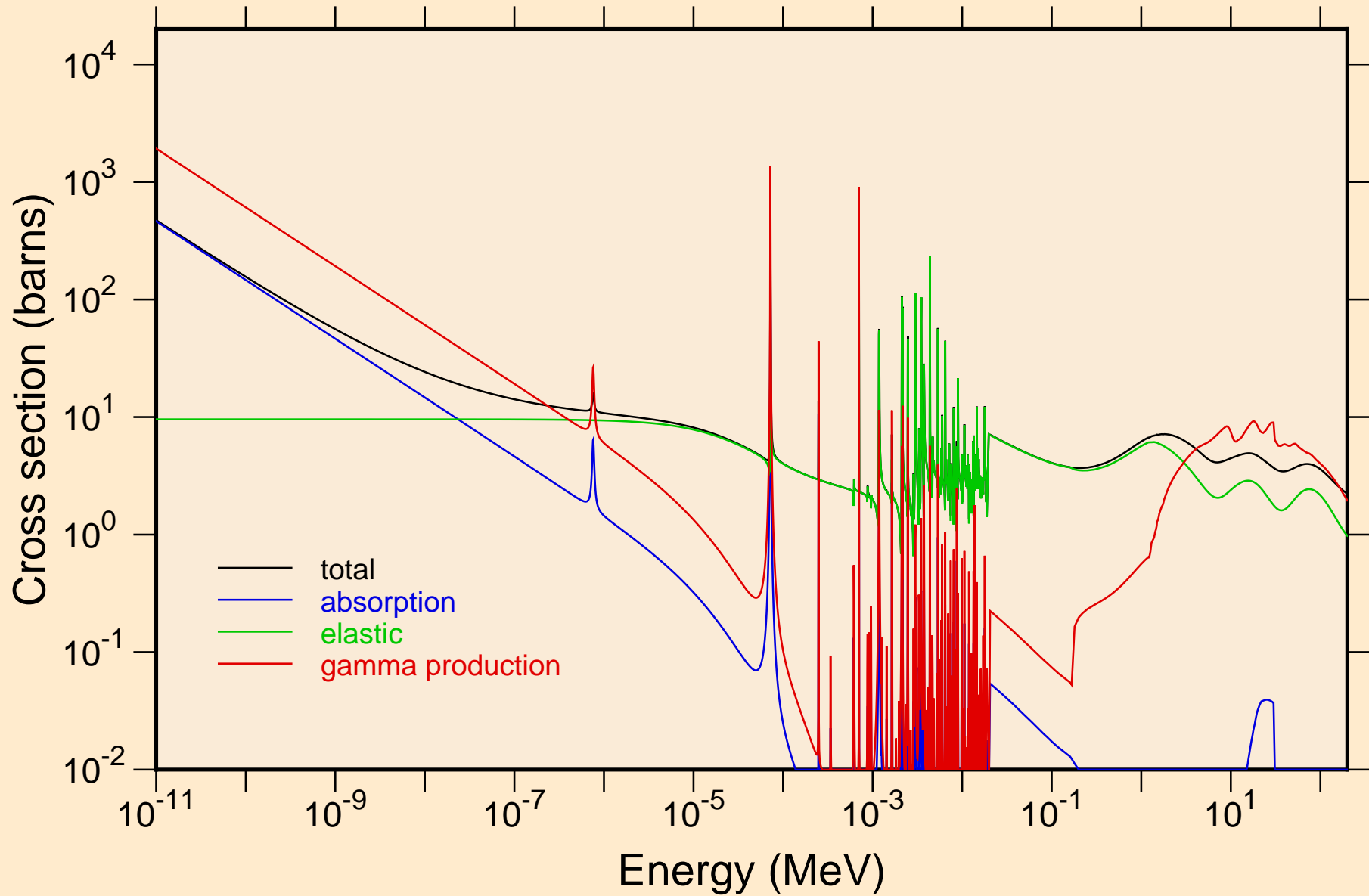
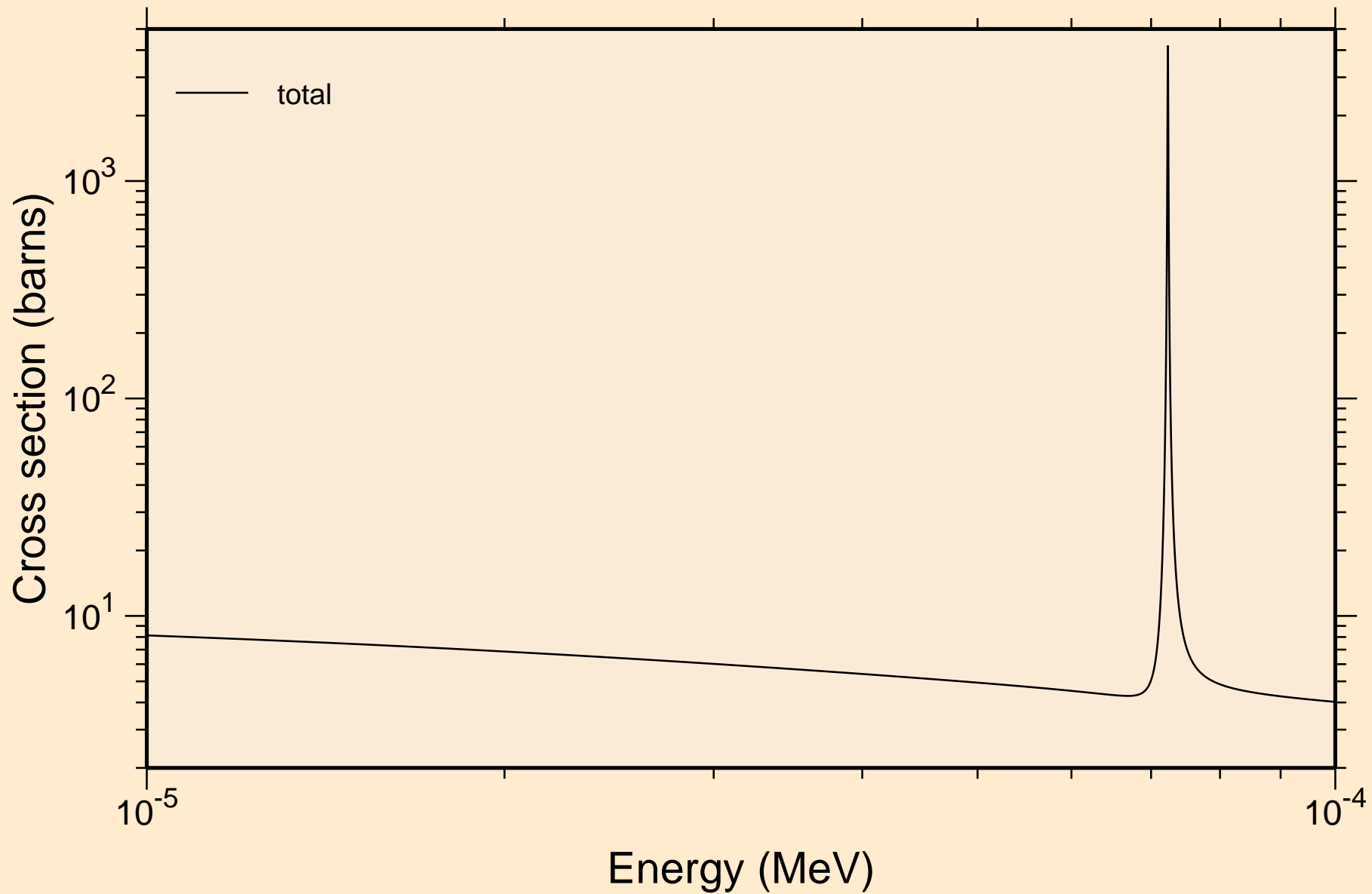


# LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

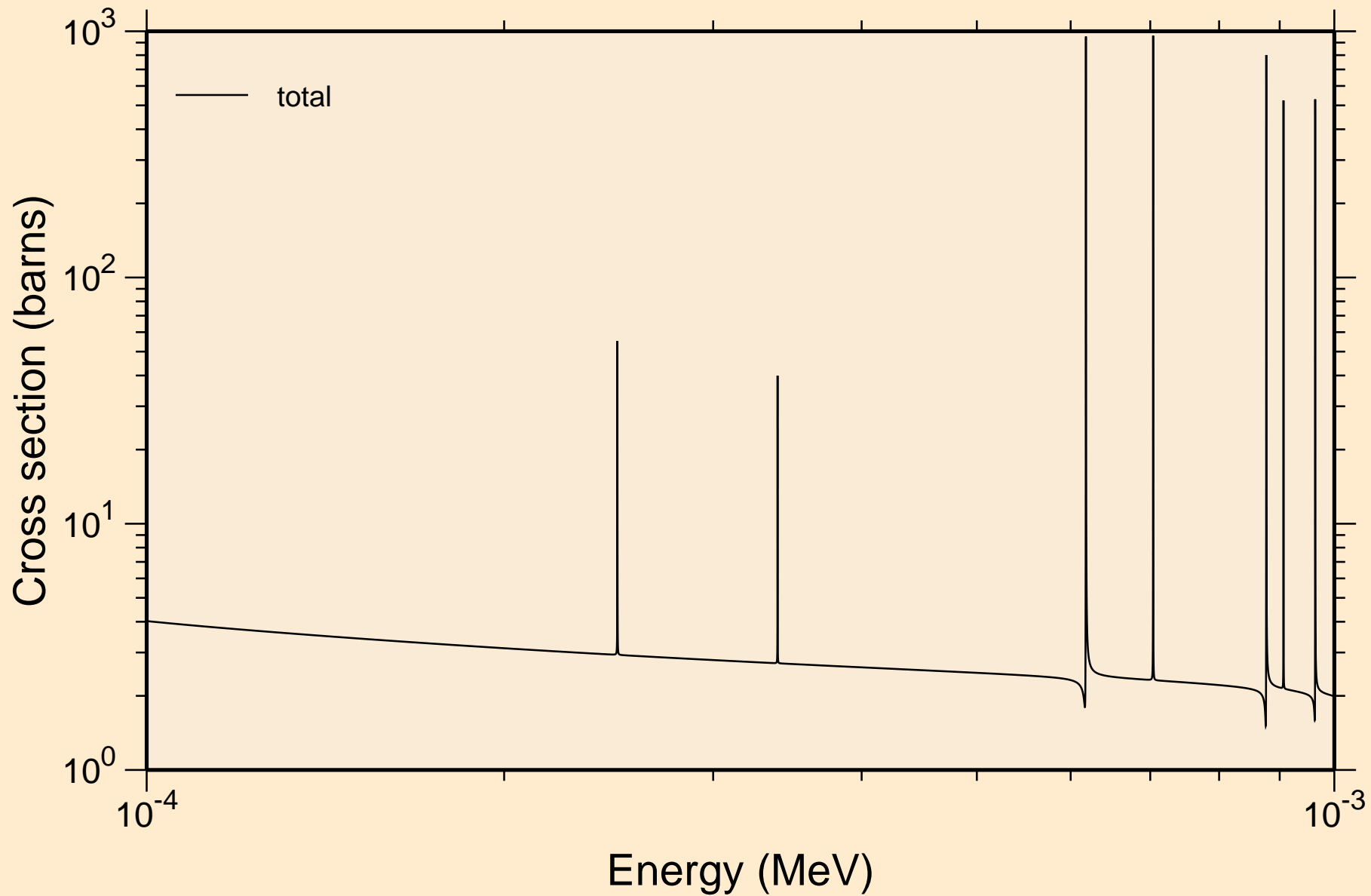
## Principal cross sections



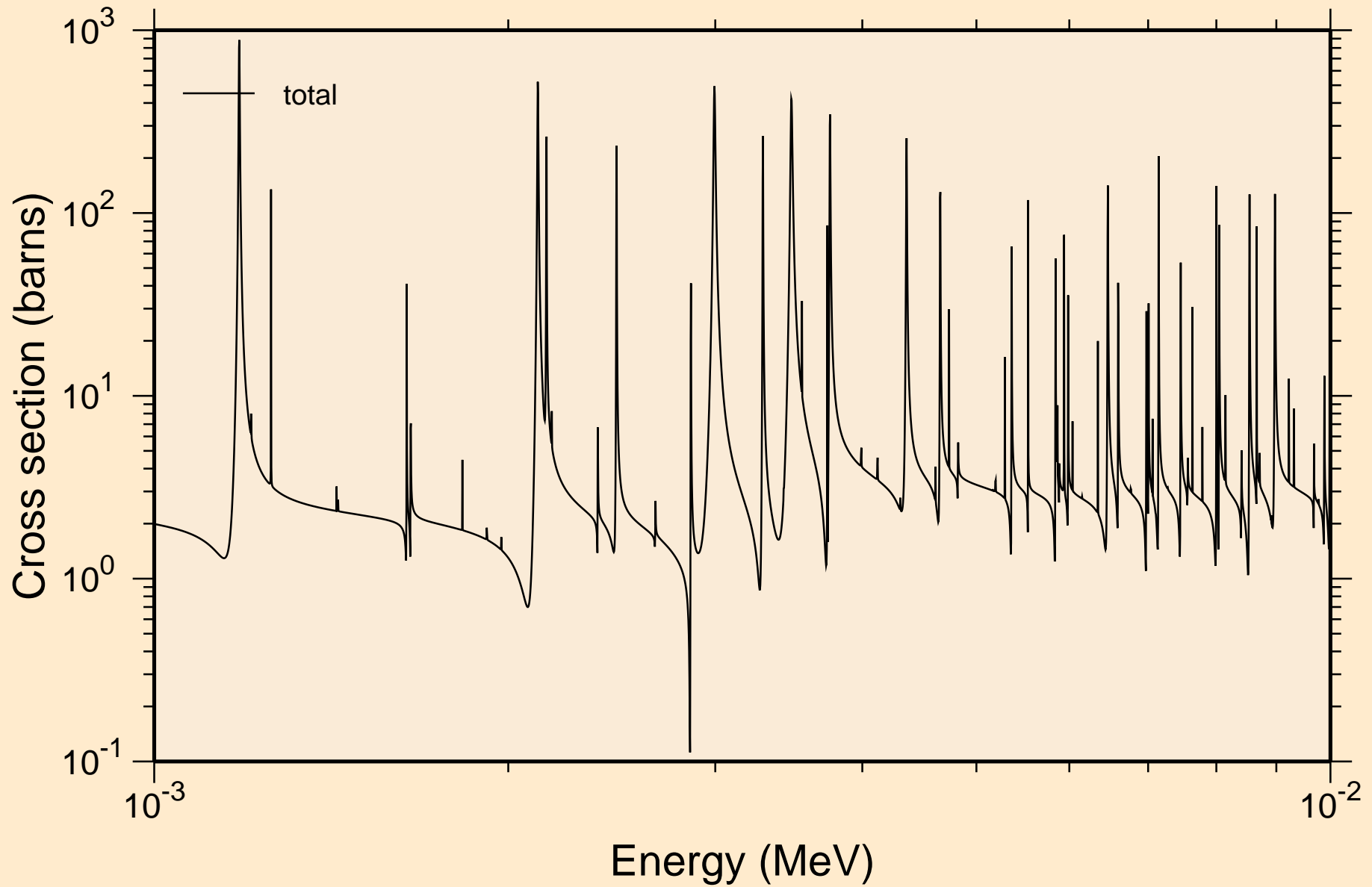
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



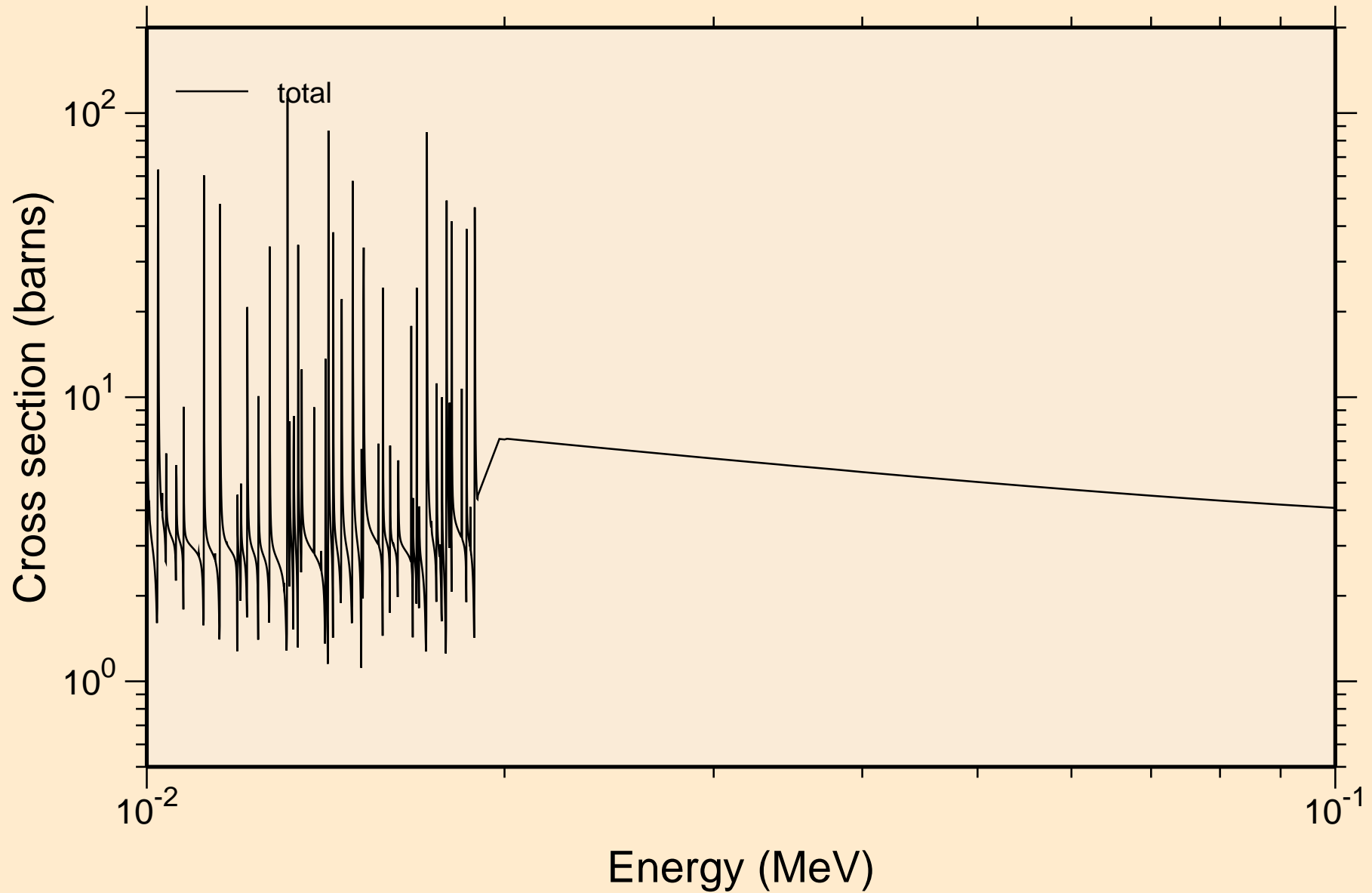
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



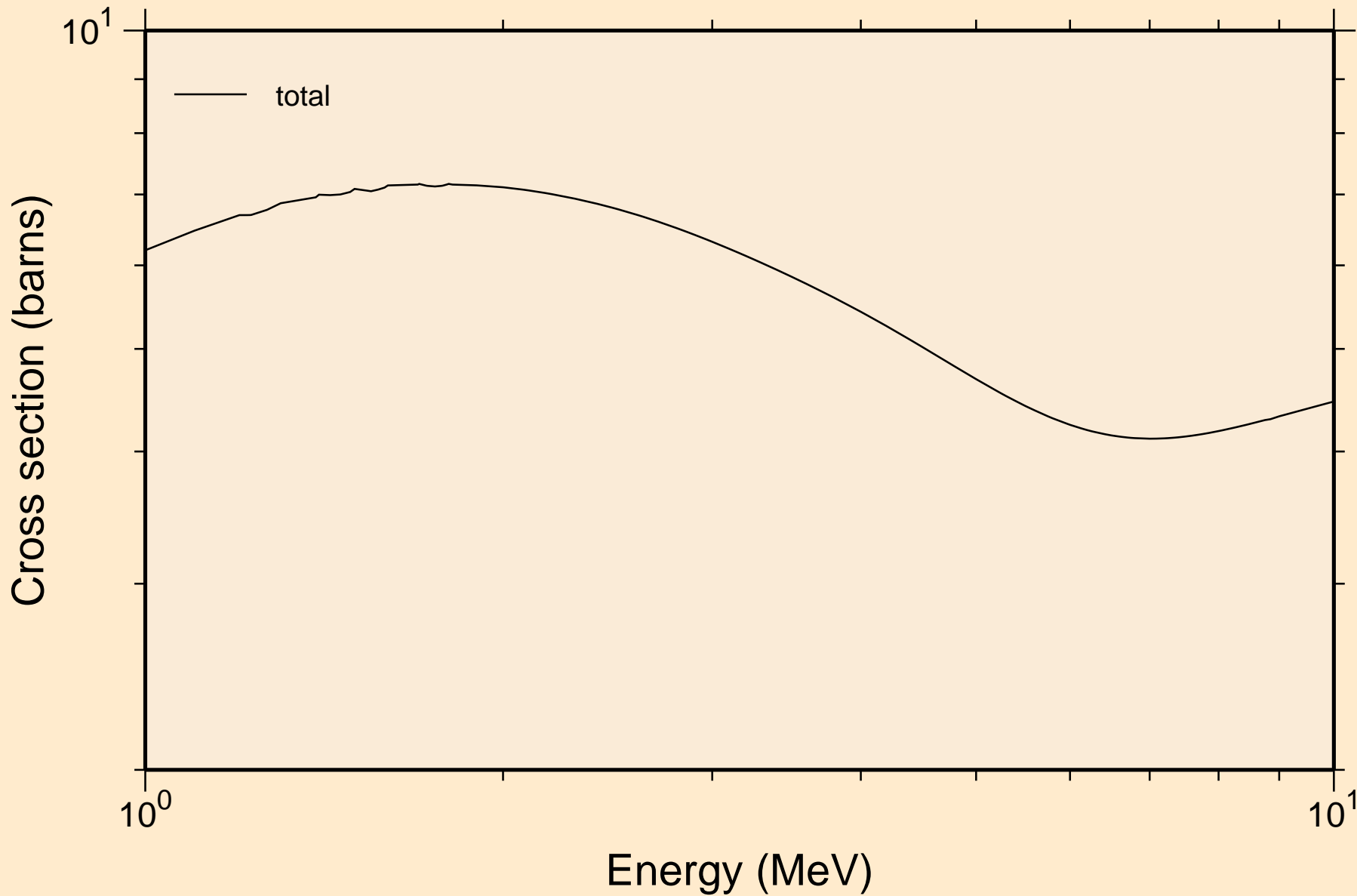
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resonance total cross section



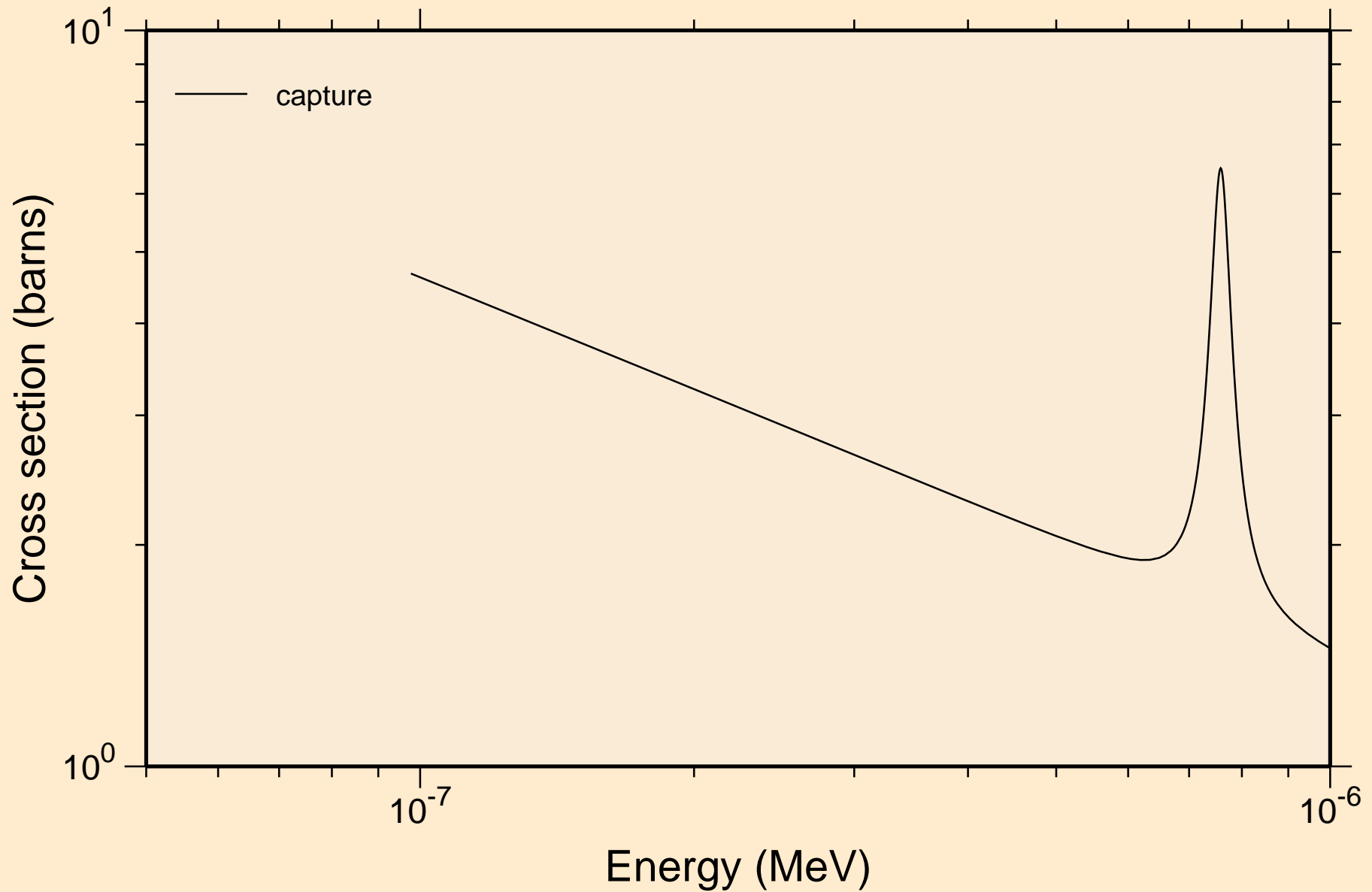
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resonance total cross section



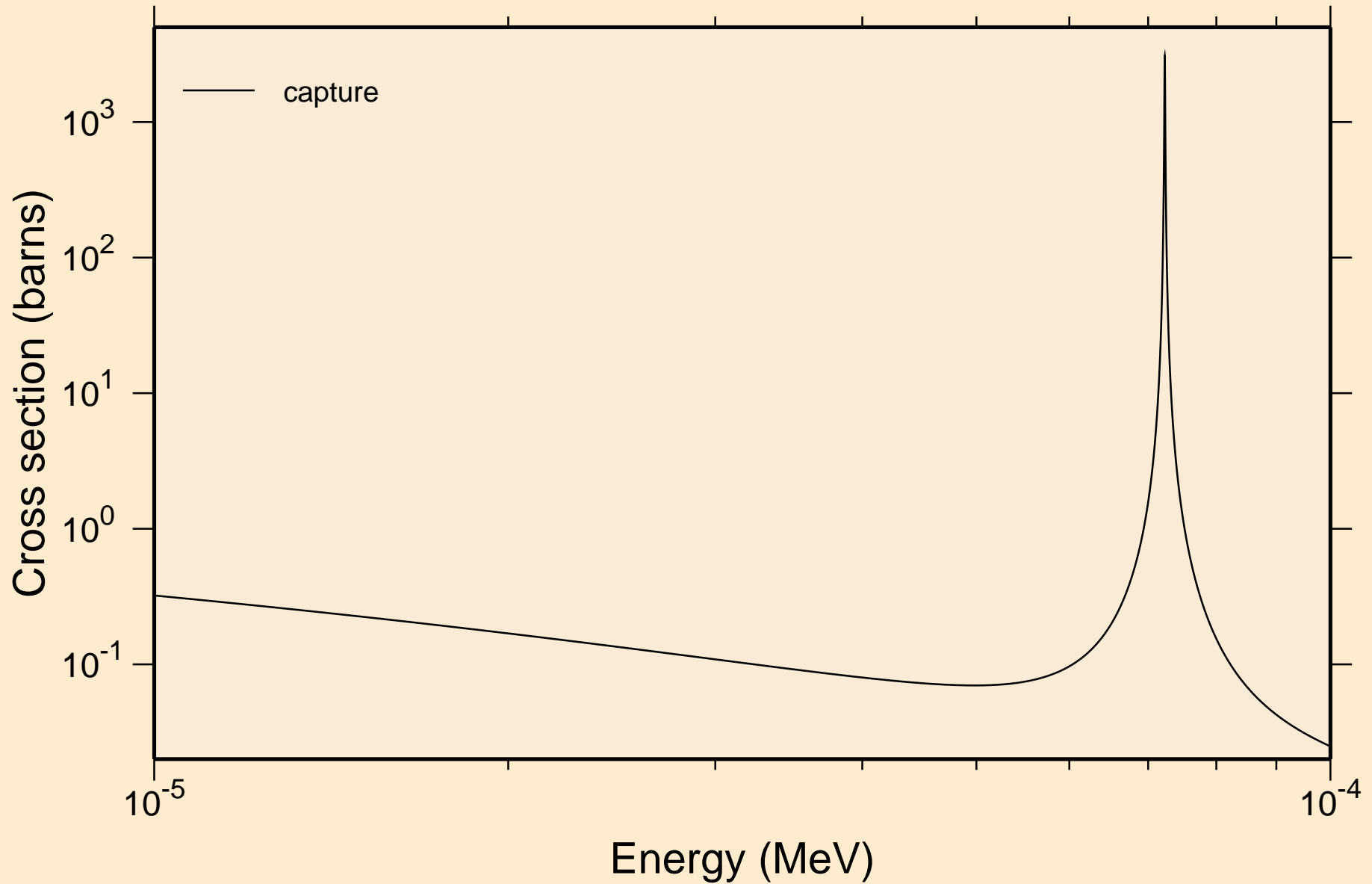
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

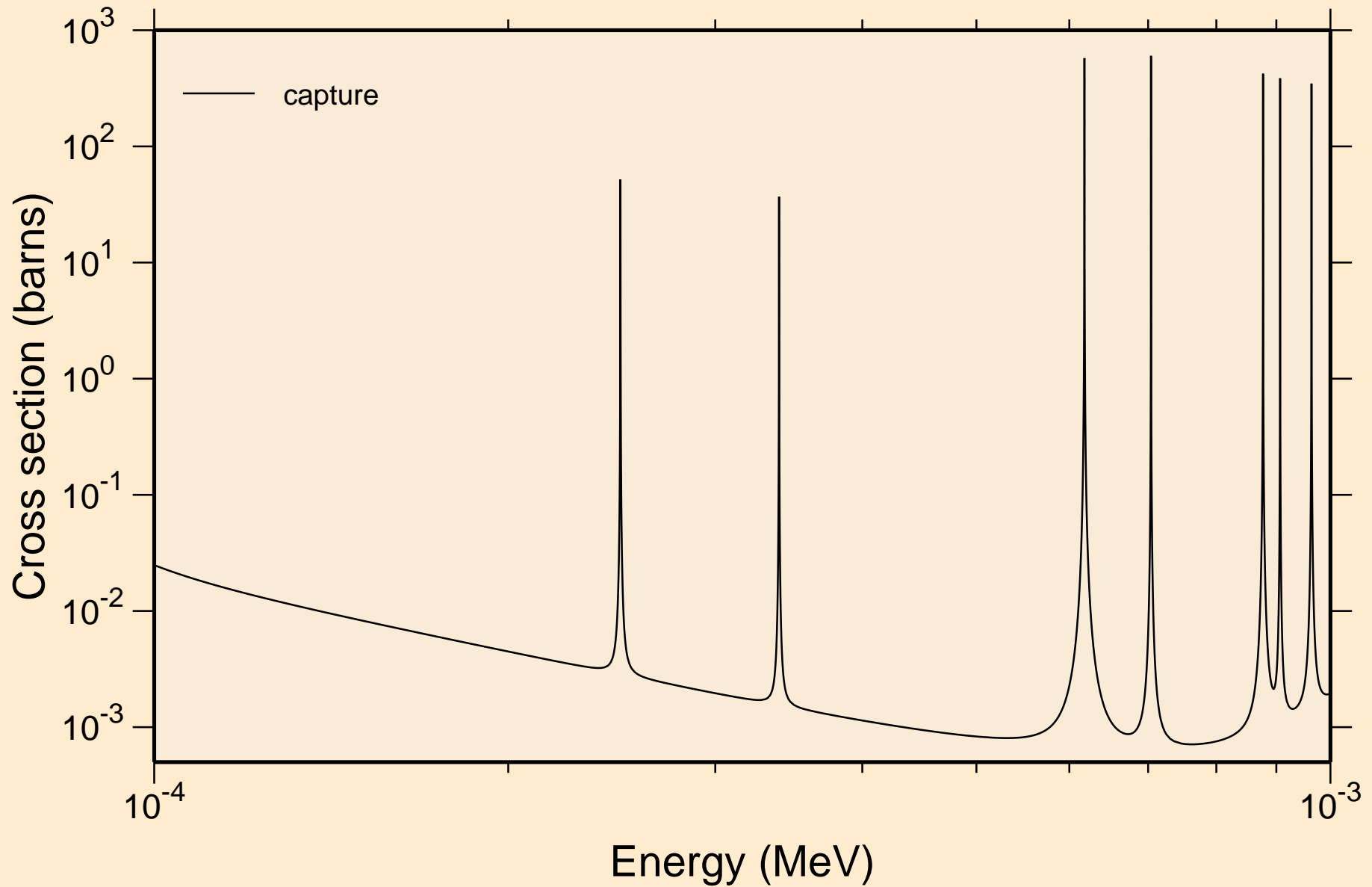


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

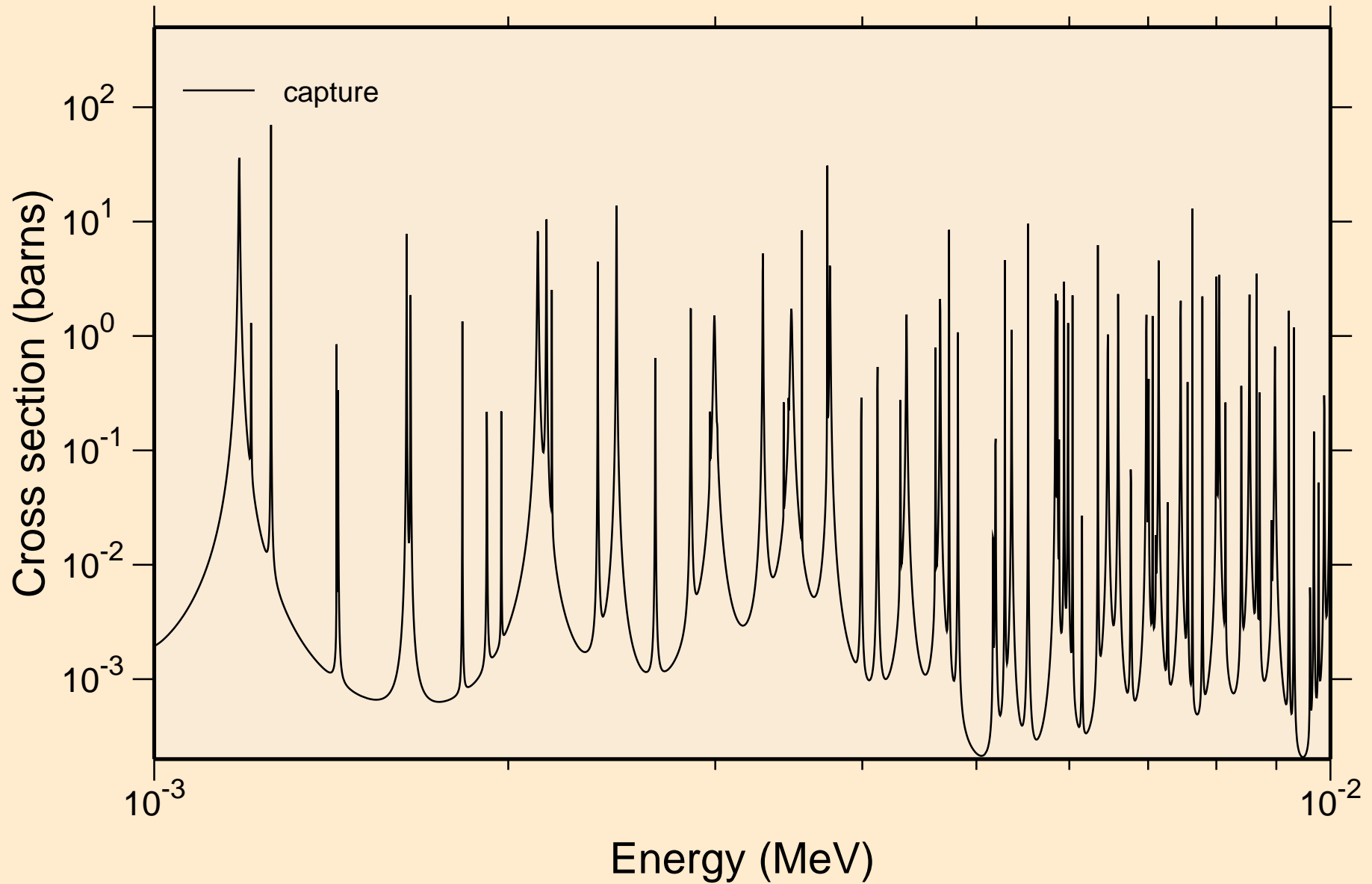




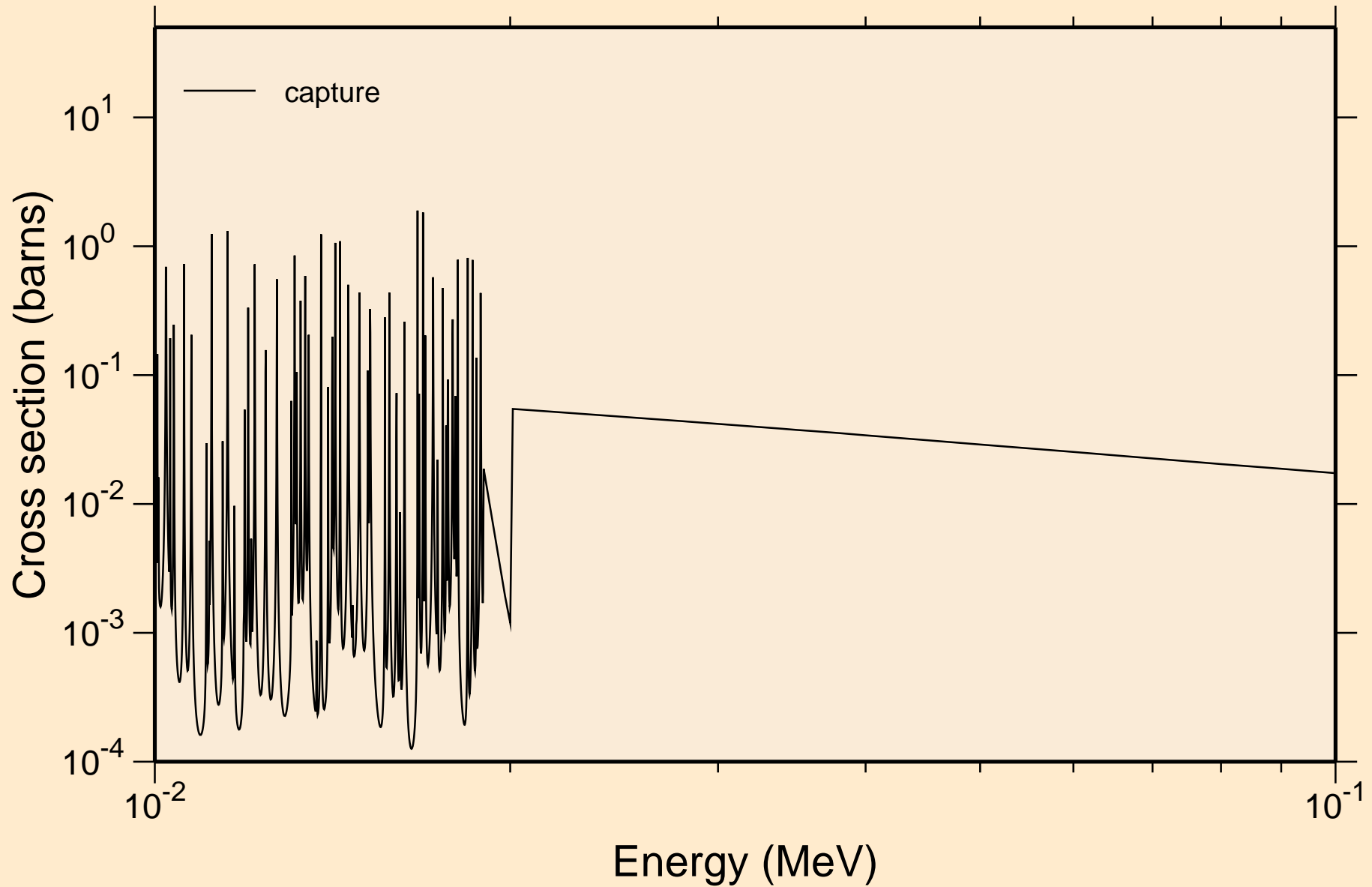
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



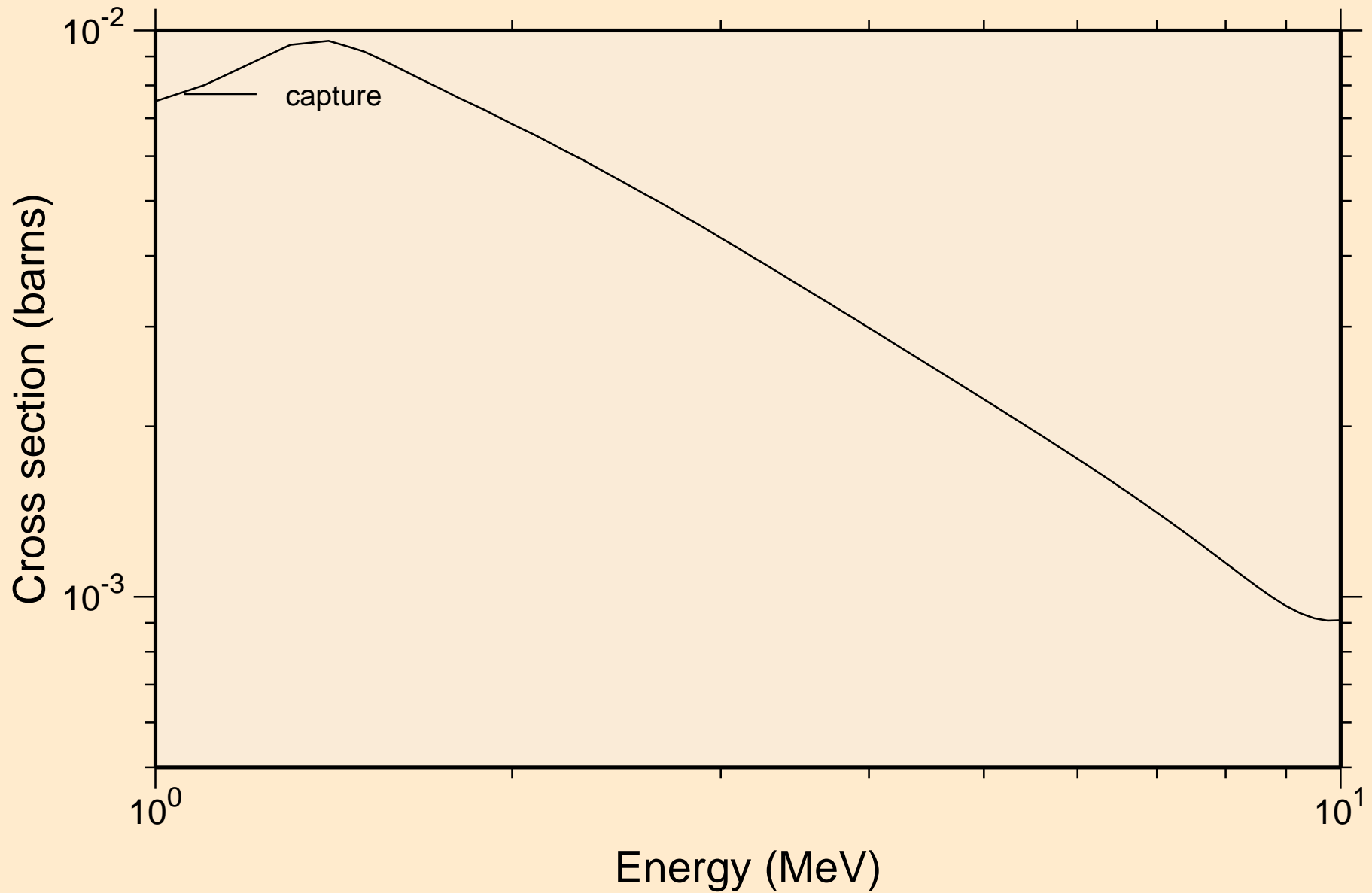
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

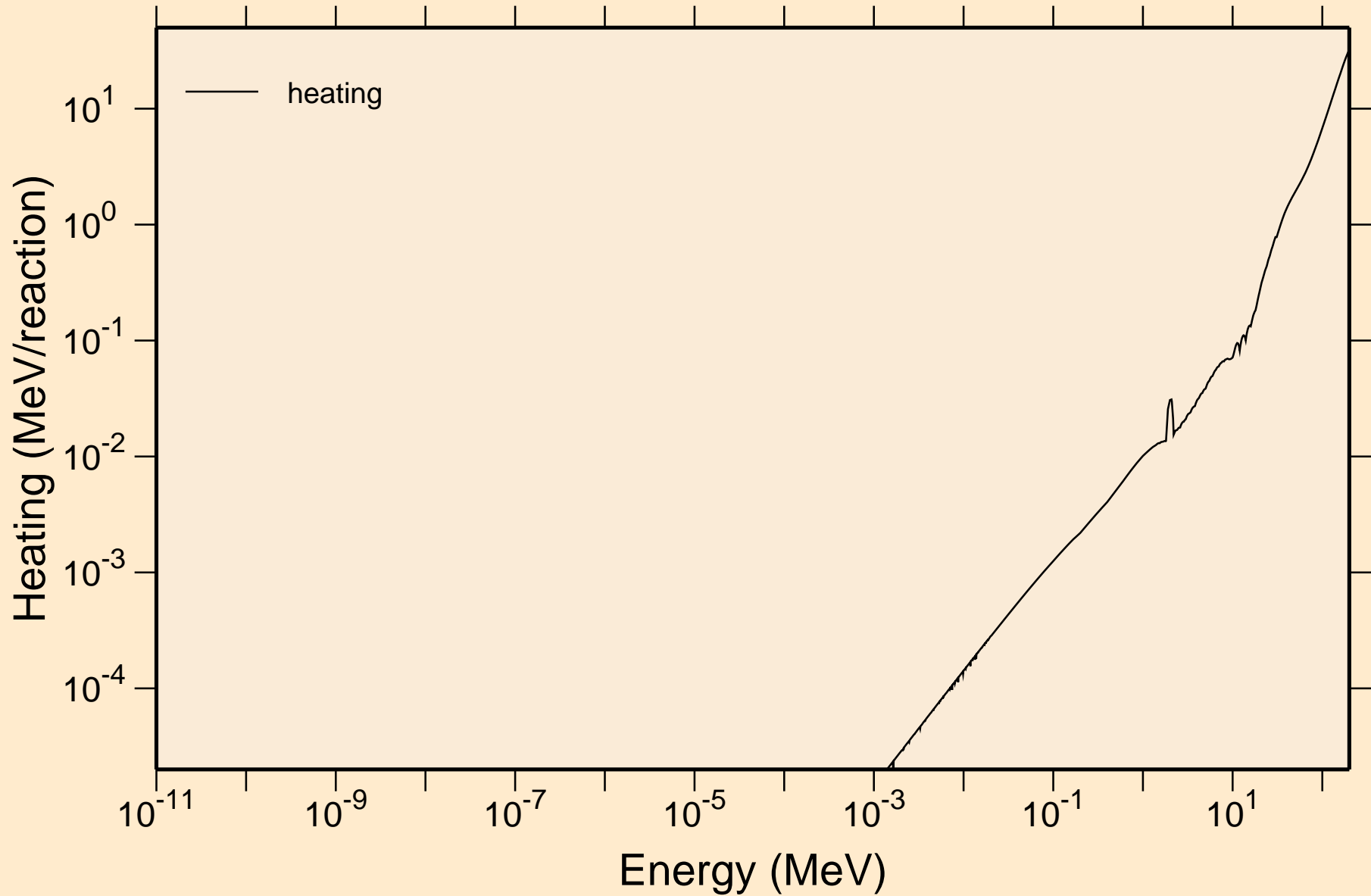


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



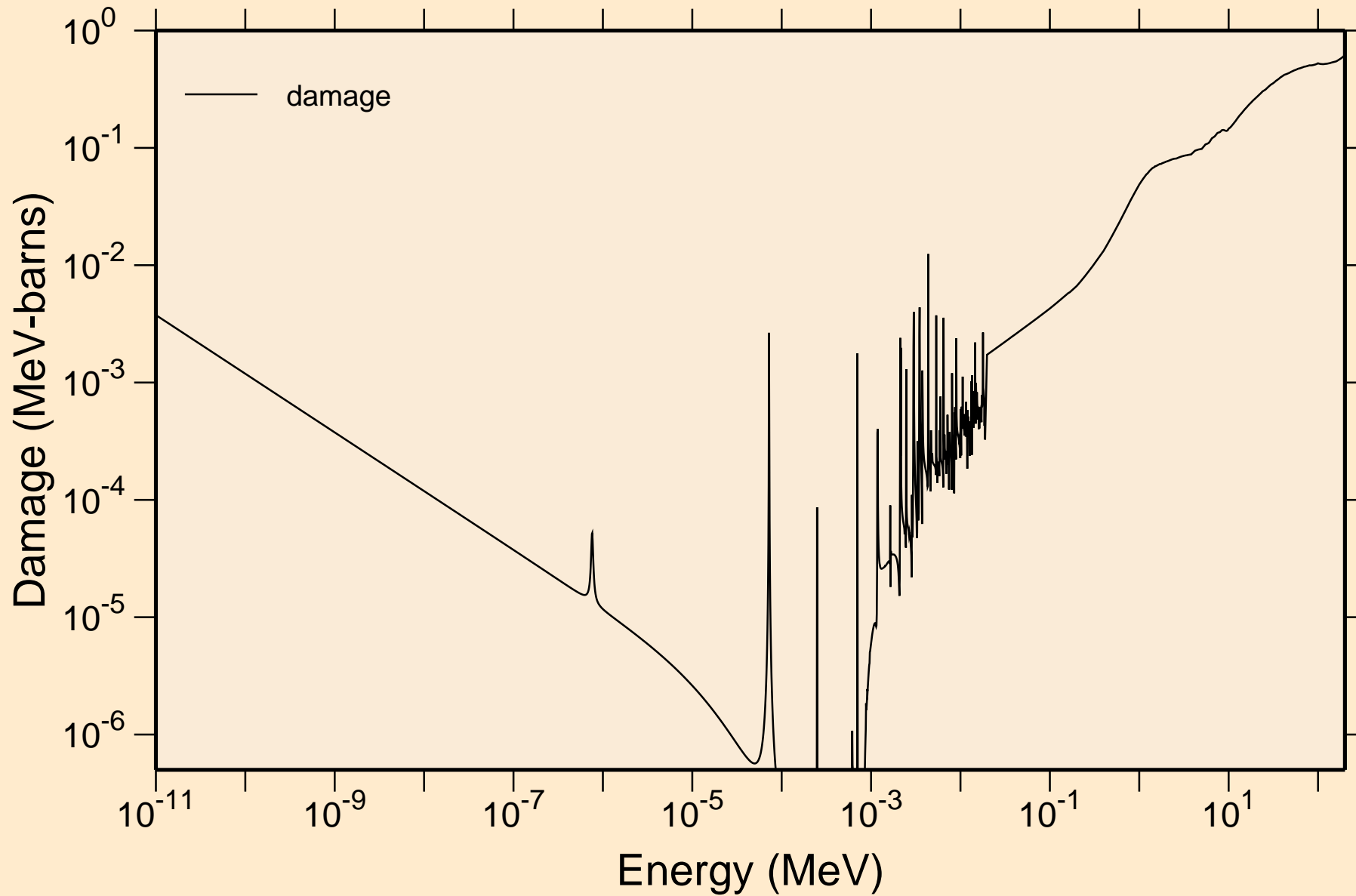
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

Heating

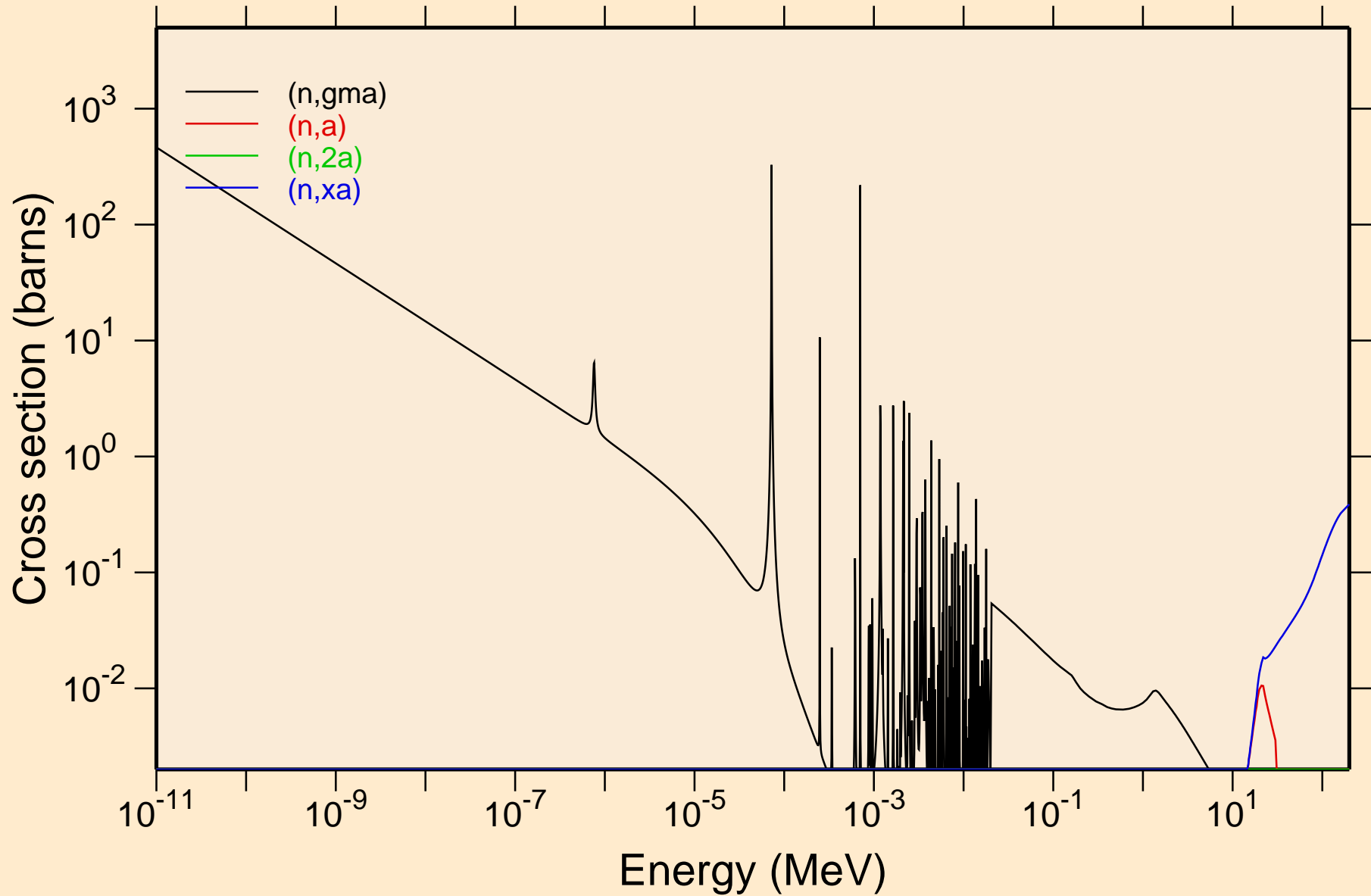


# LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

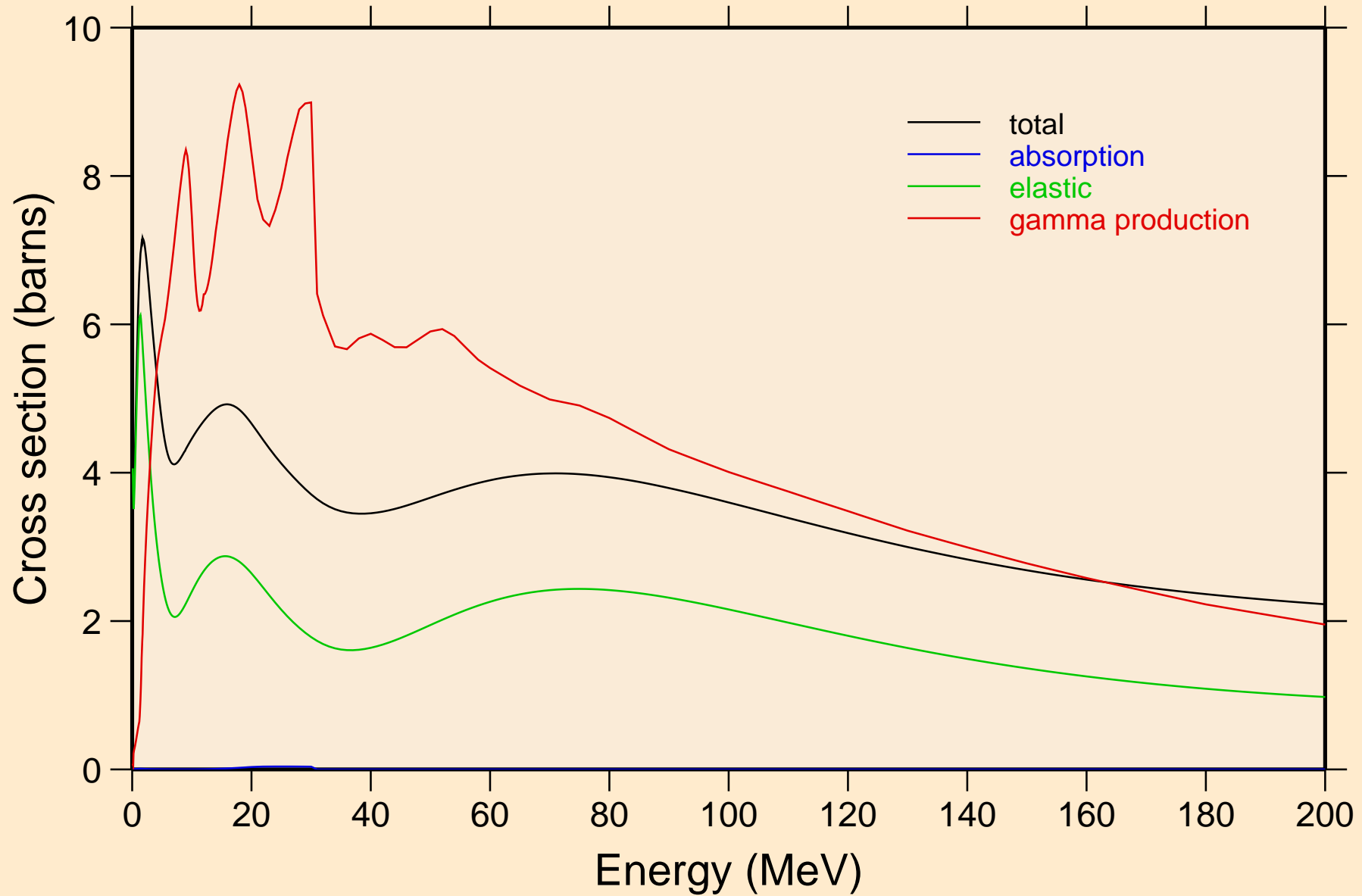


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



# LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

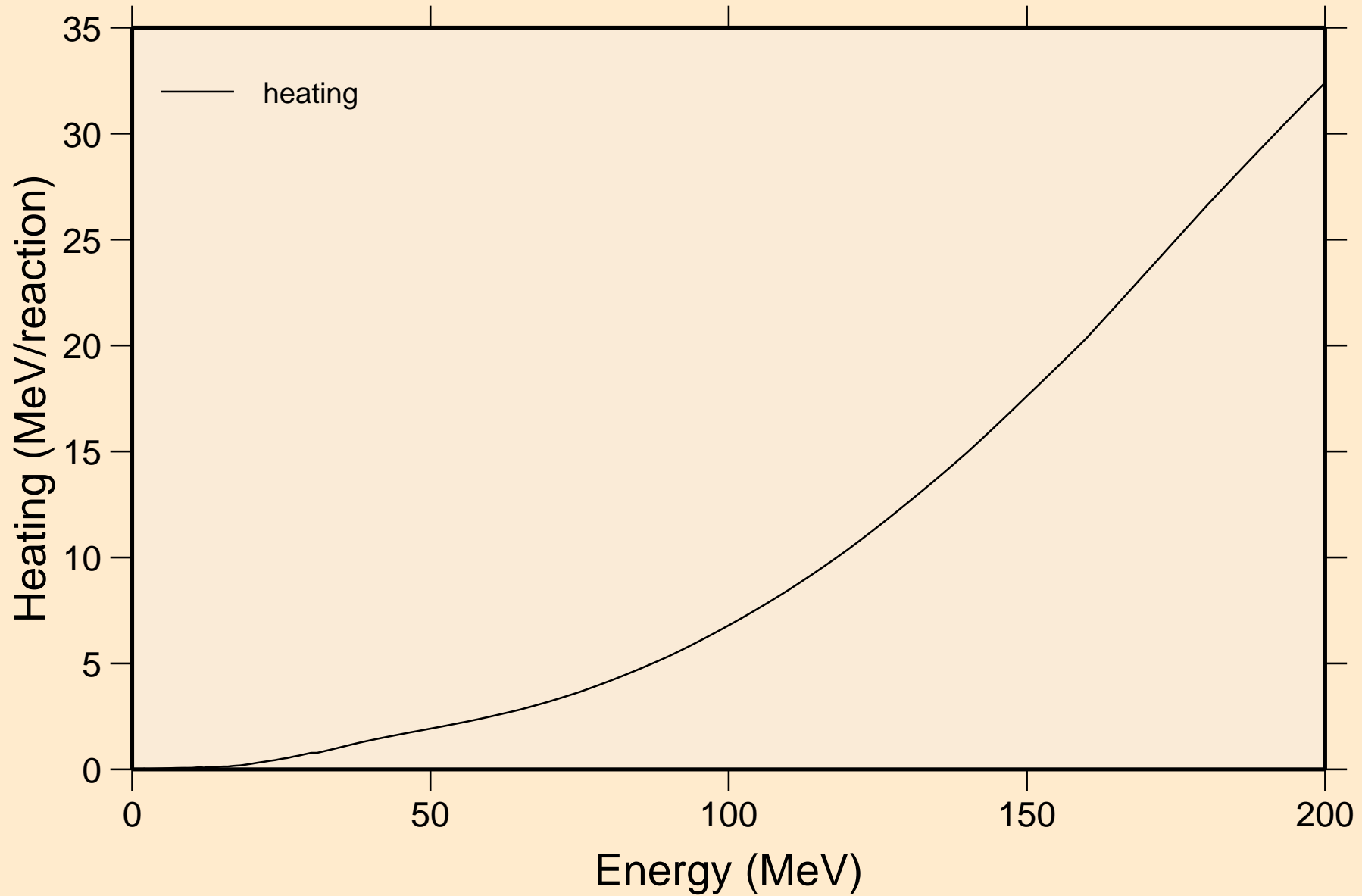
## Principal cross sections



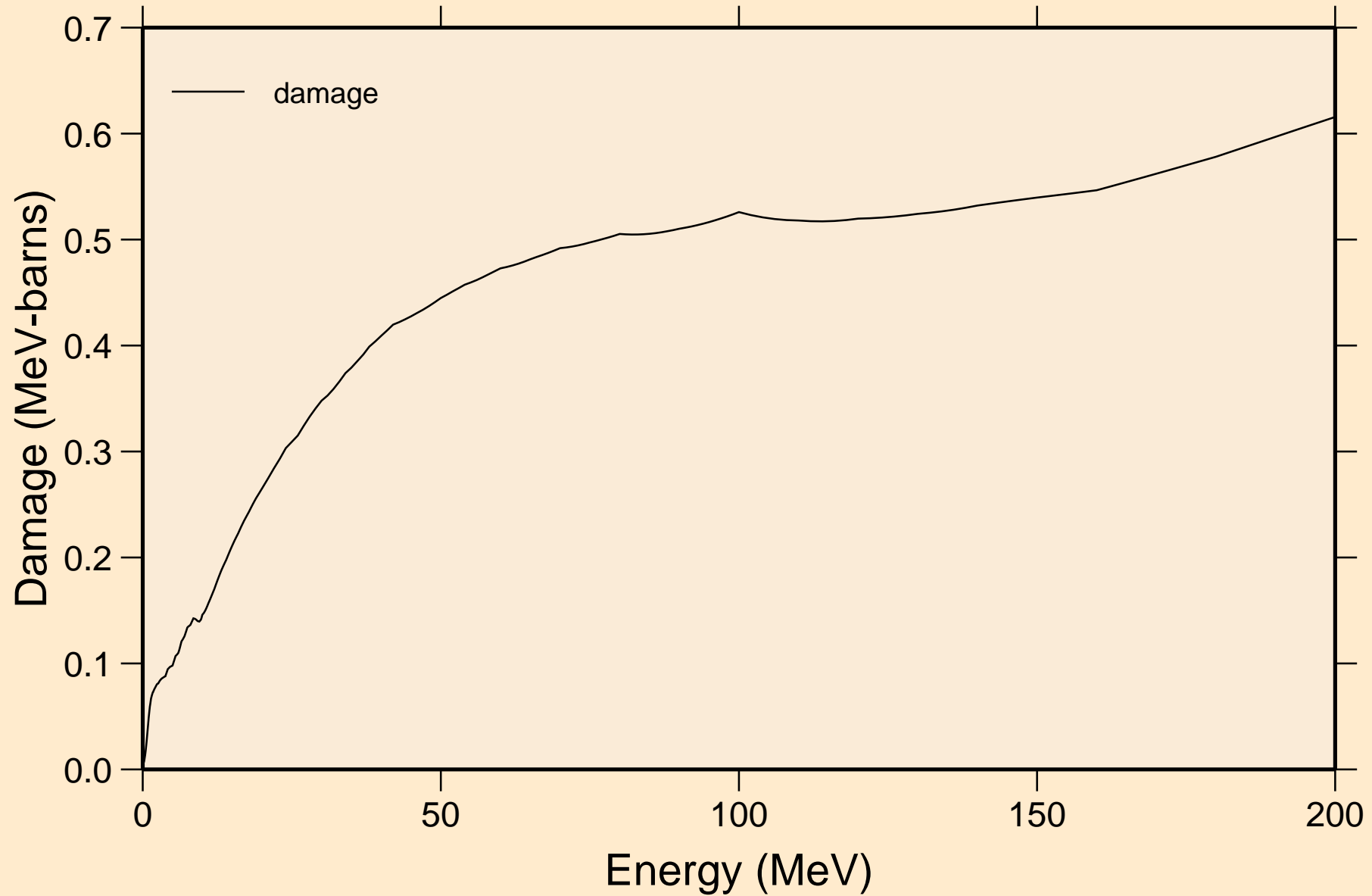


# LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

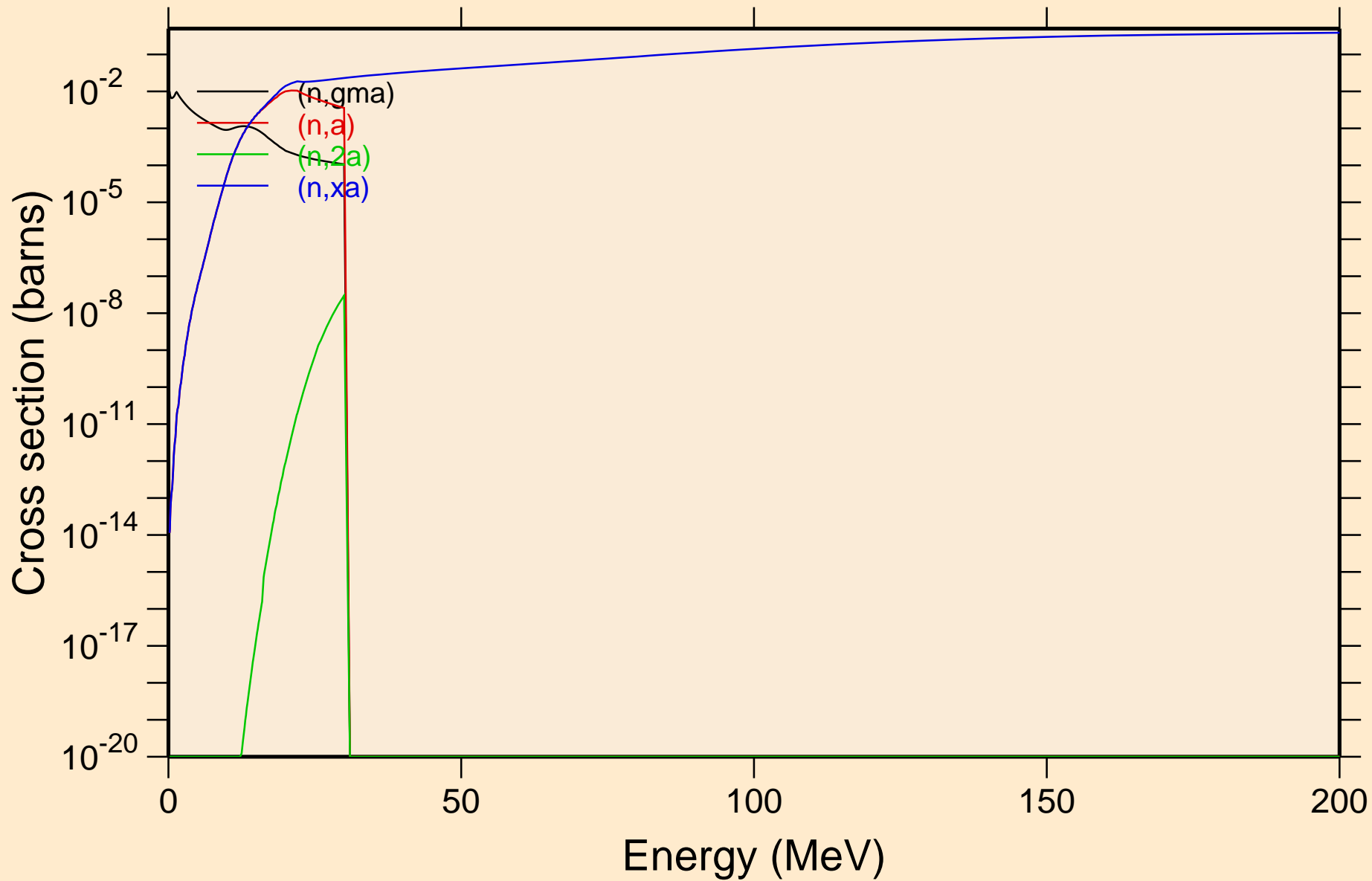
## Heating



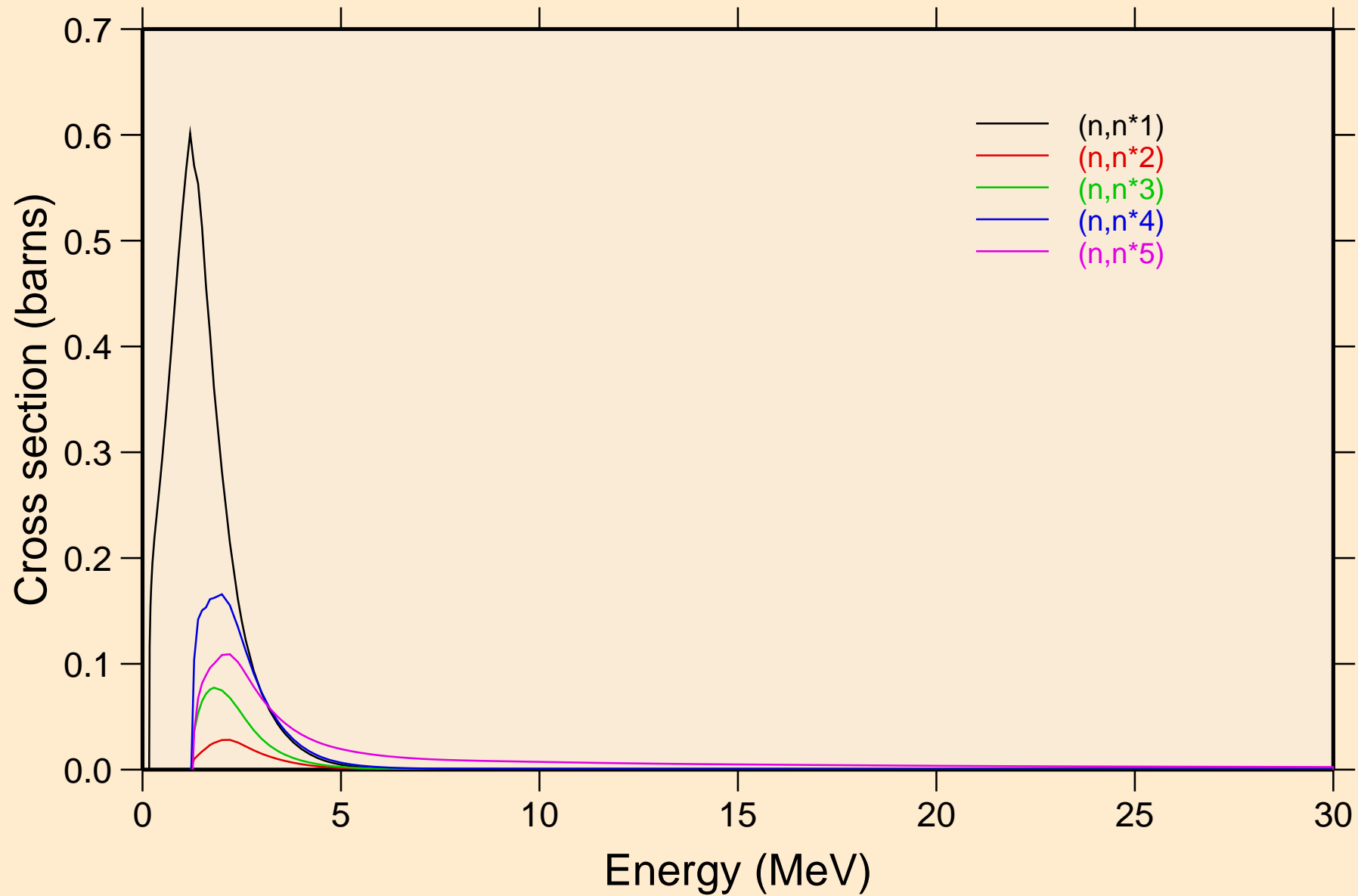
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



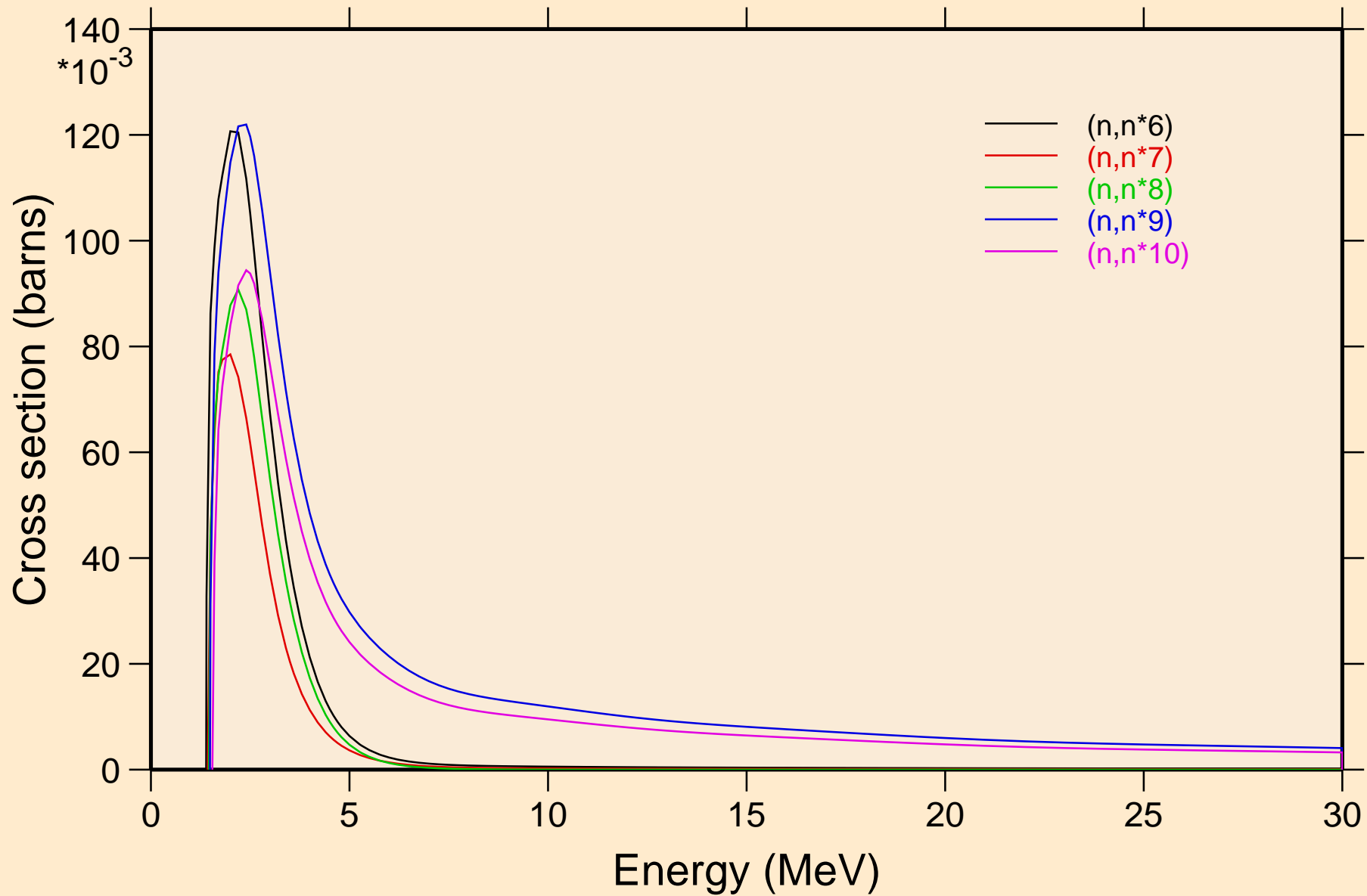
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



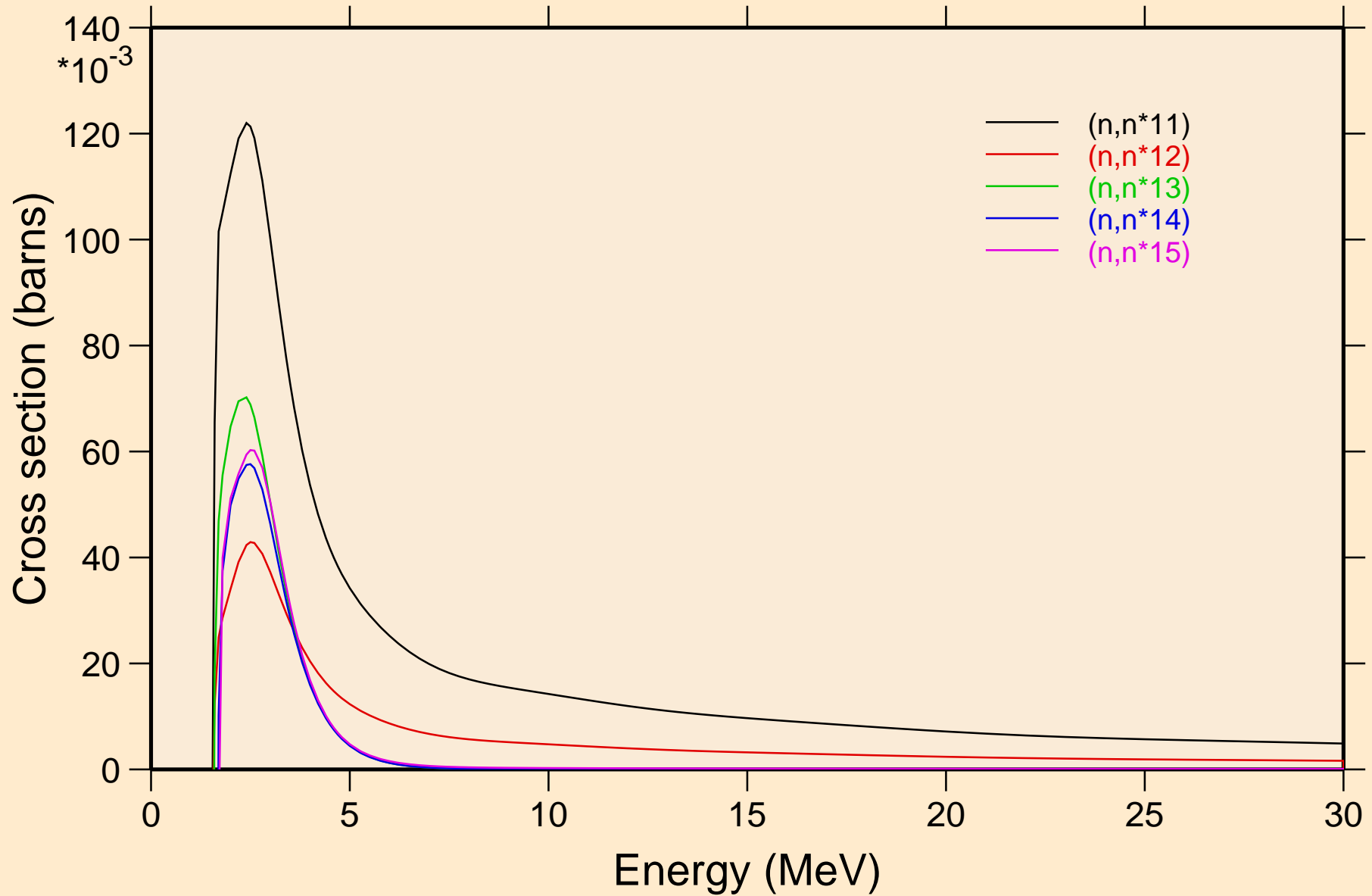
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



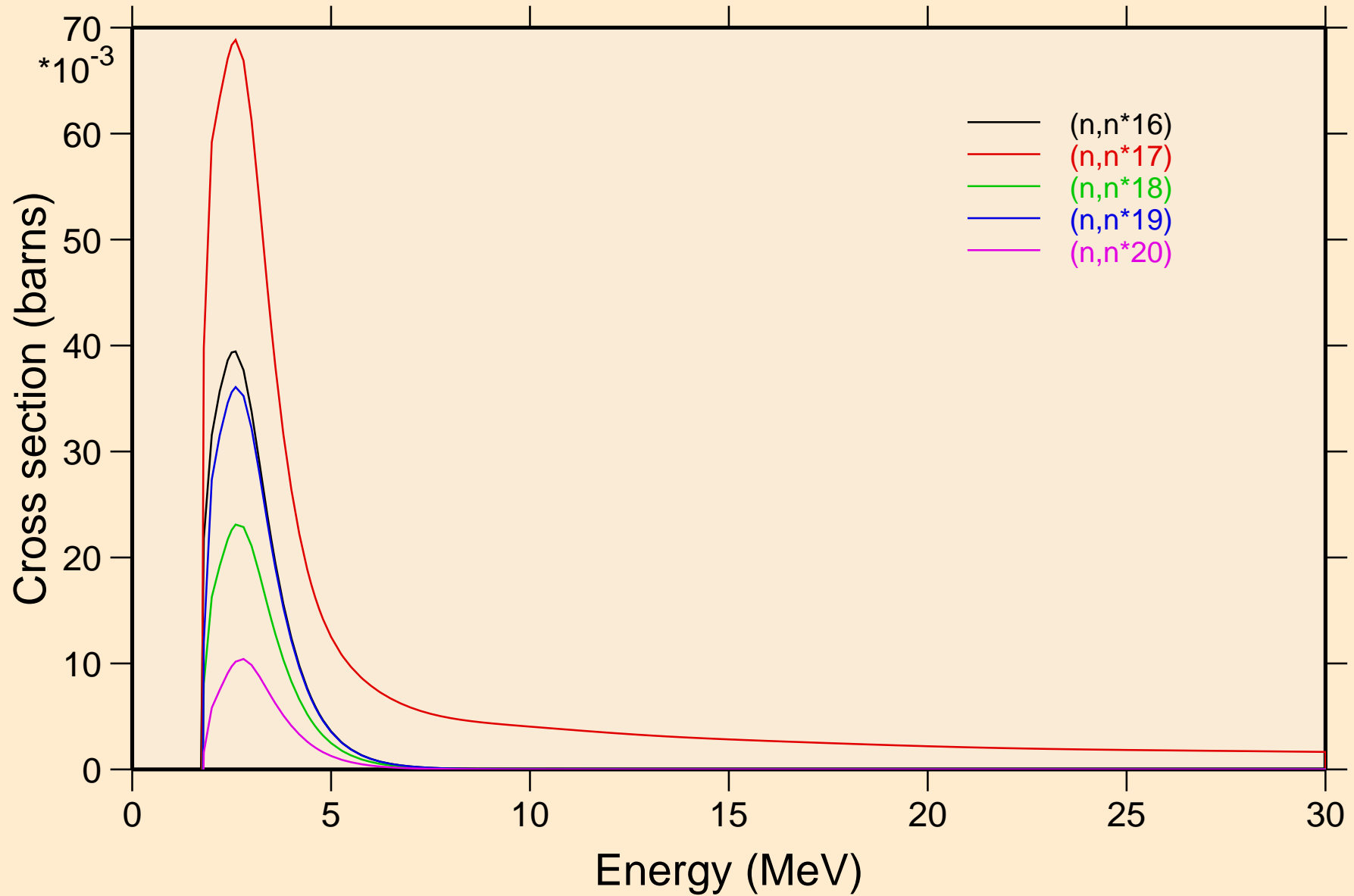
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



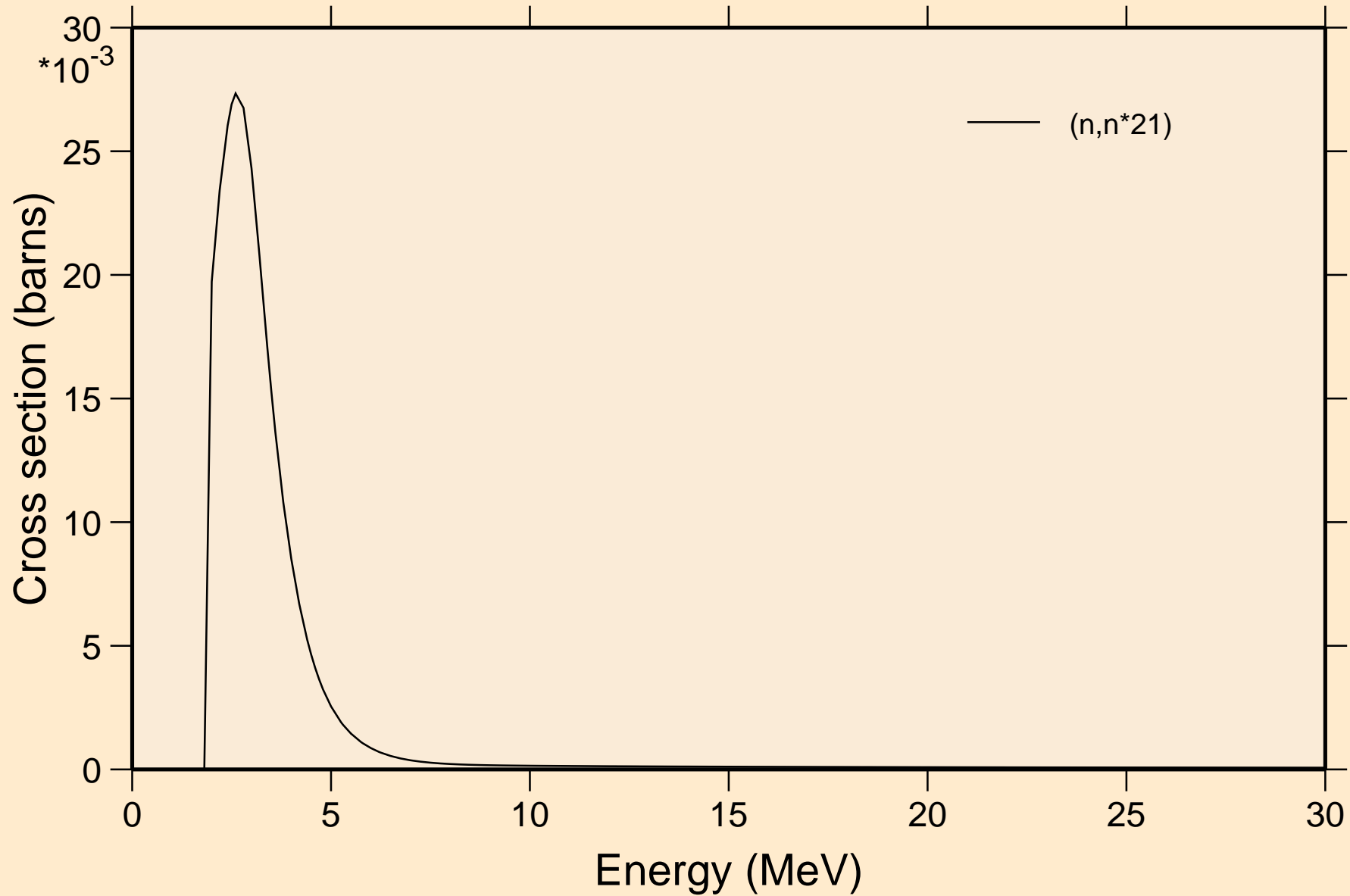
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

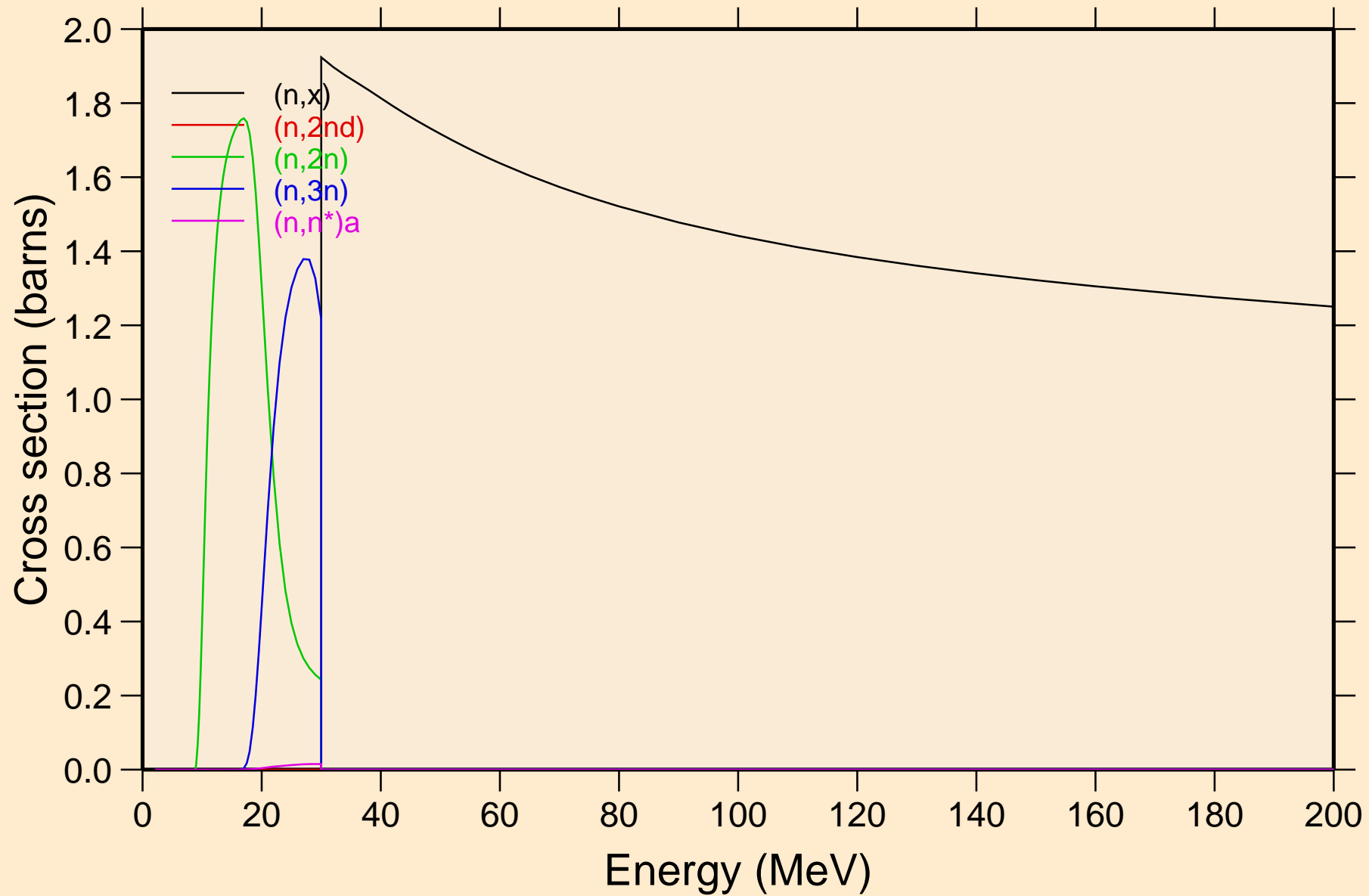


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

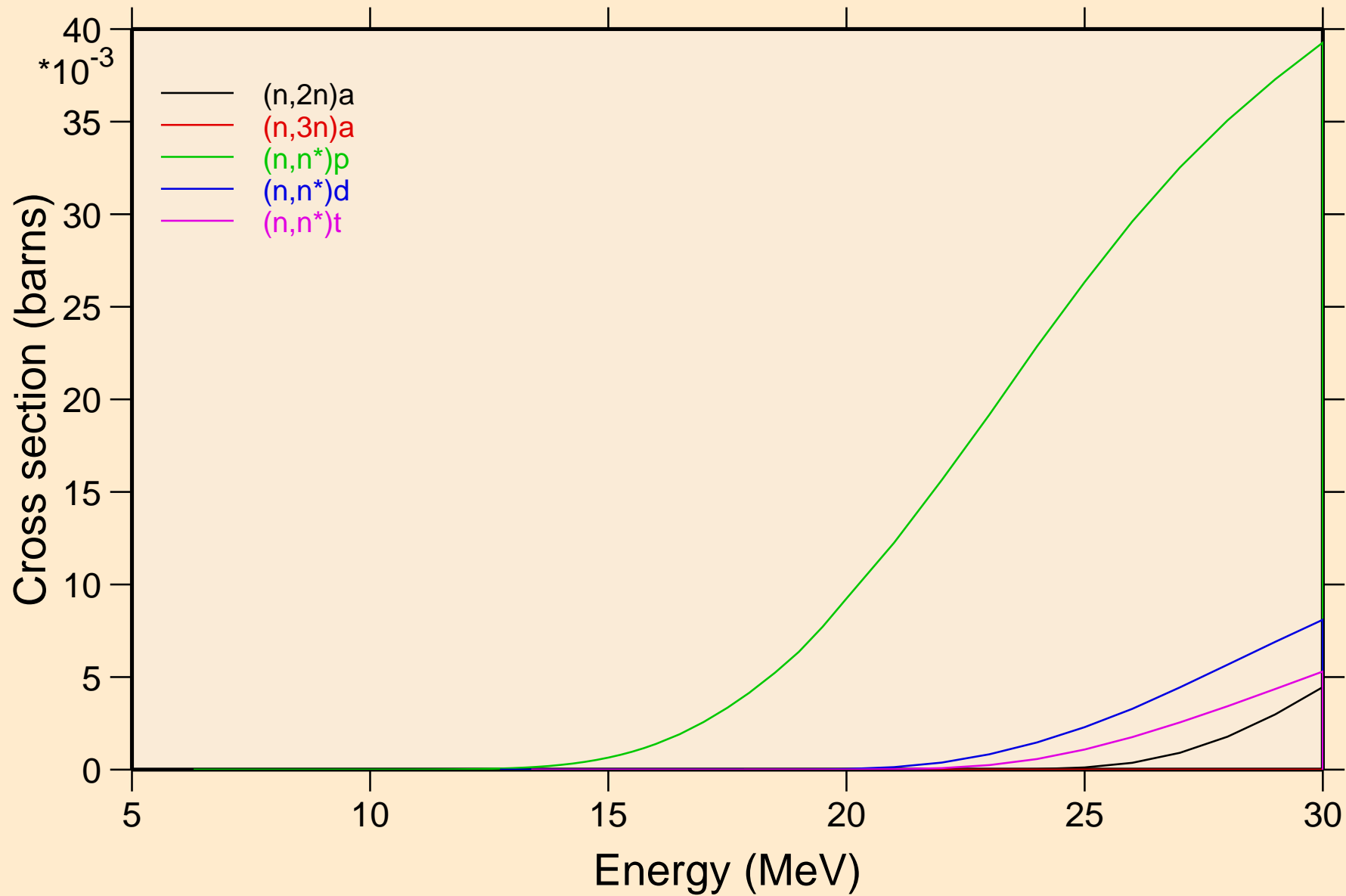




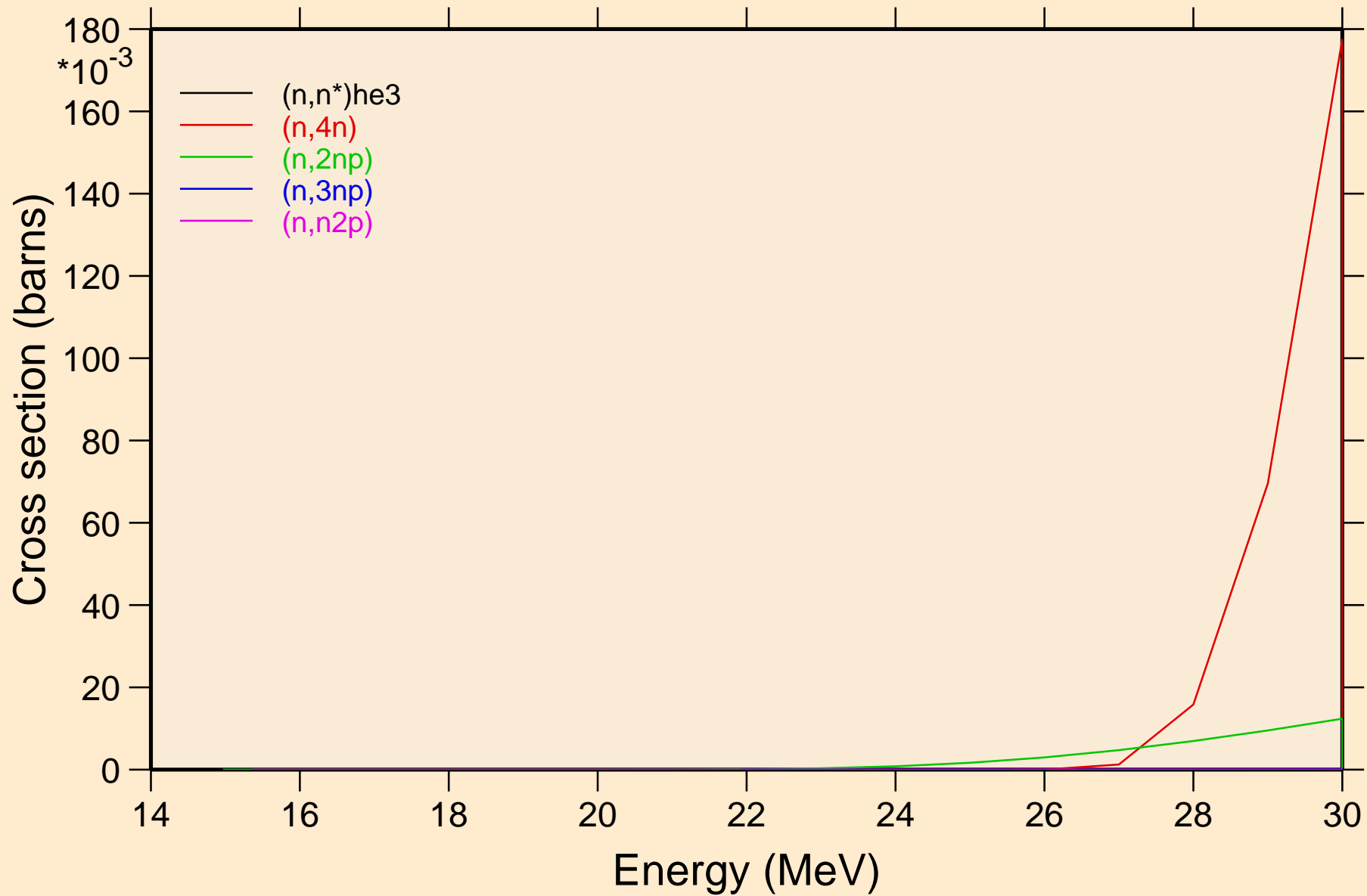
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



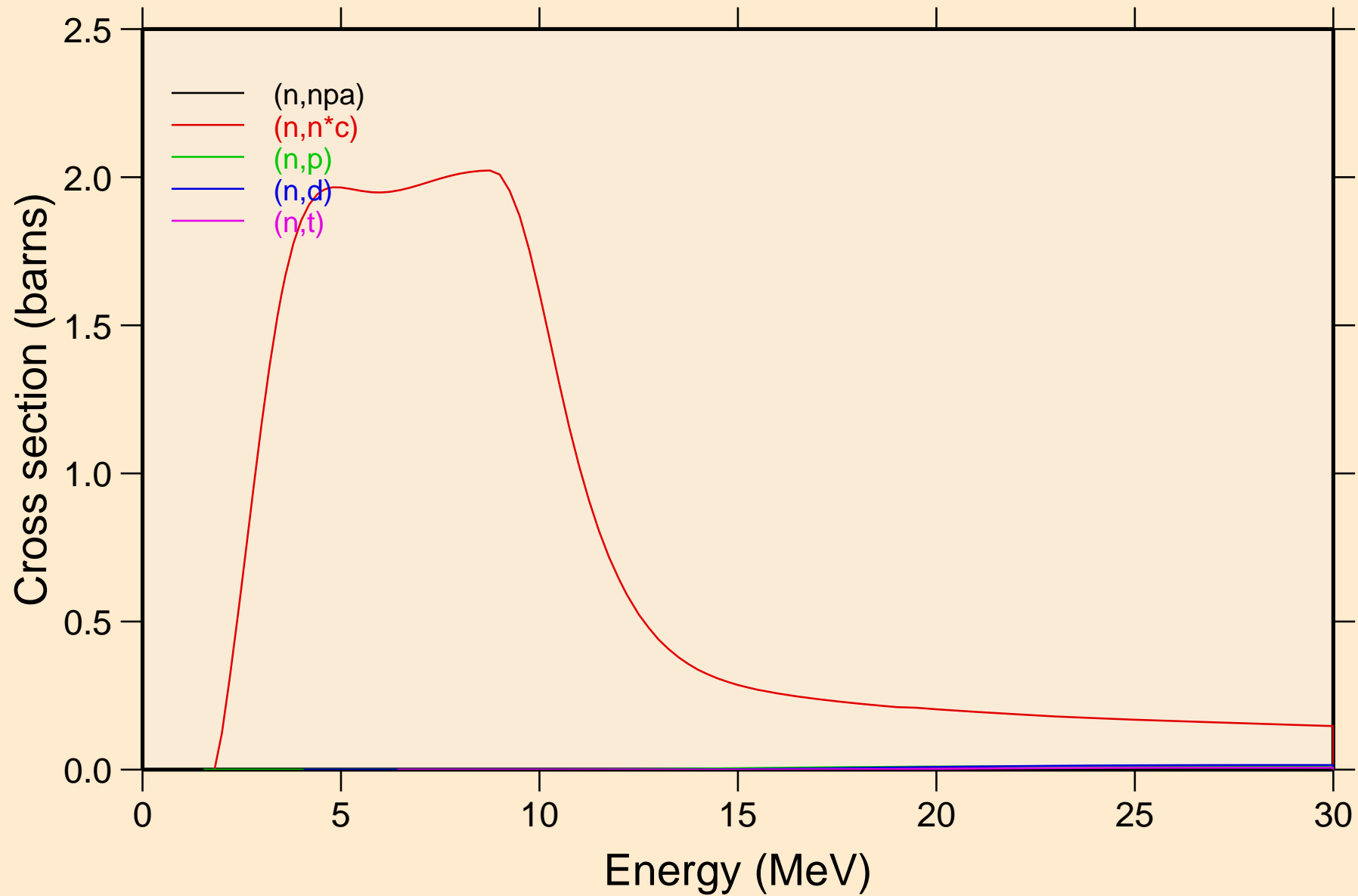
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



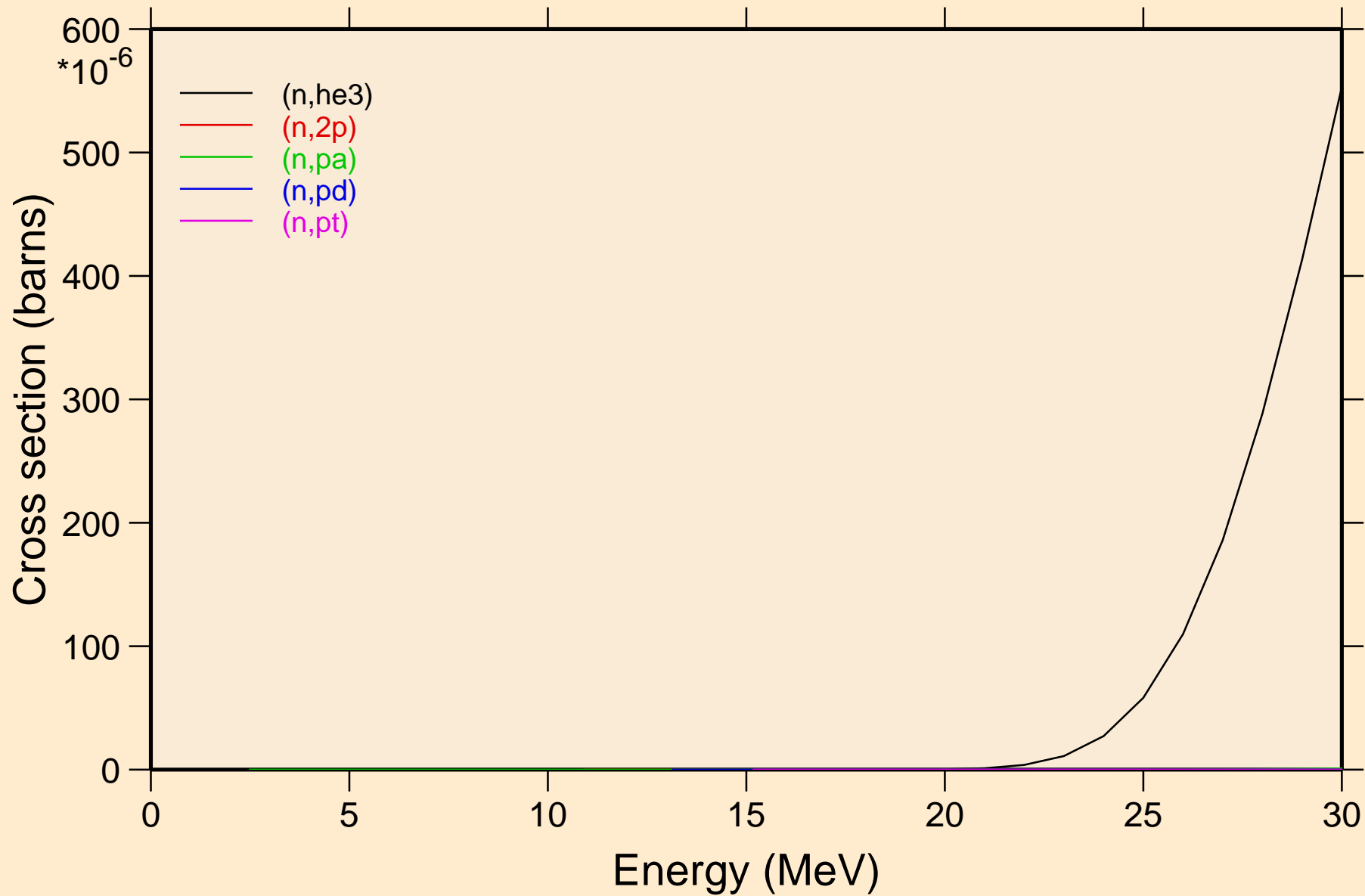
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Threshold reactions



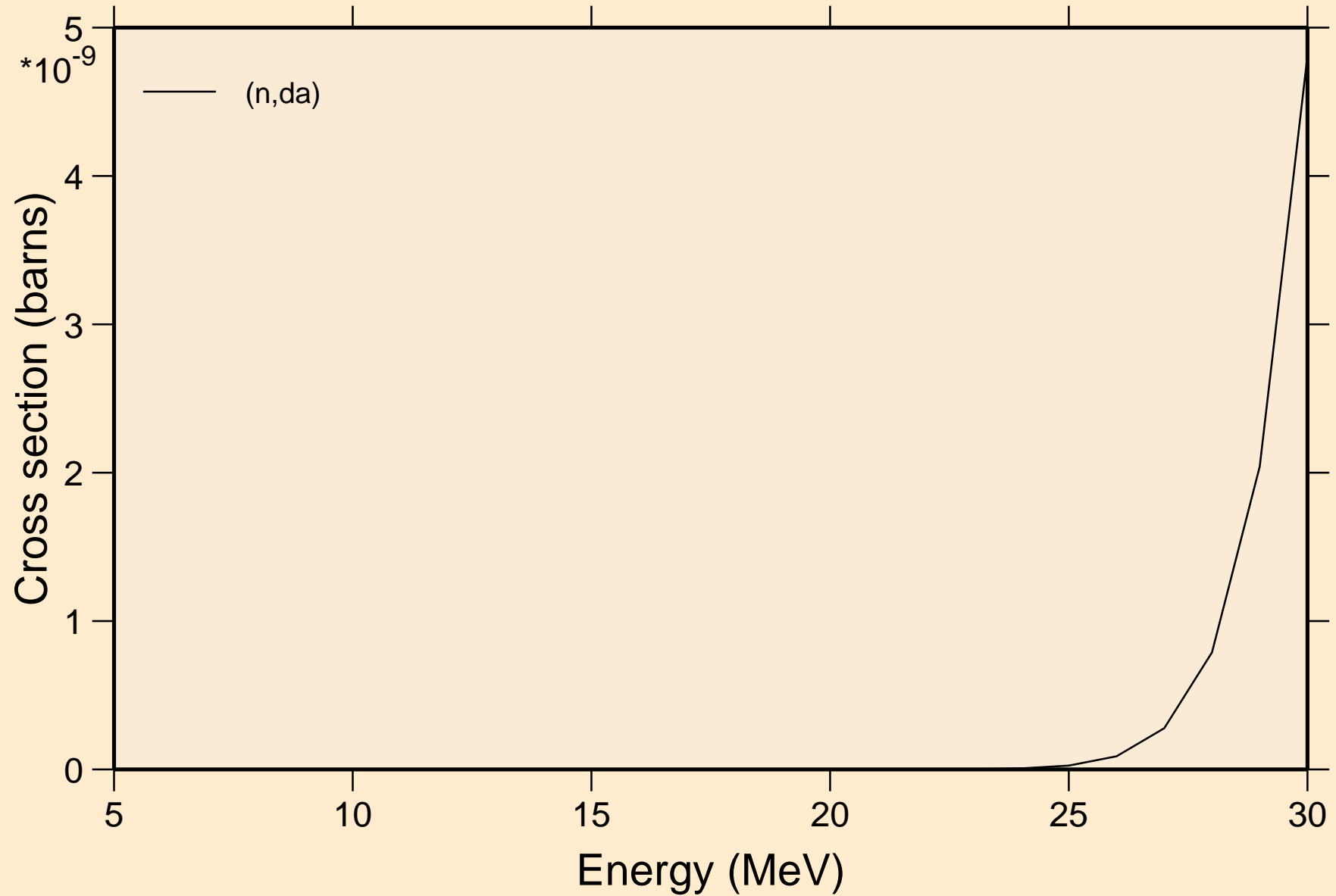
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



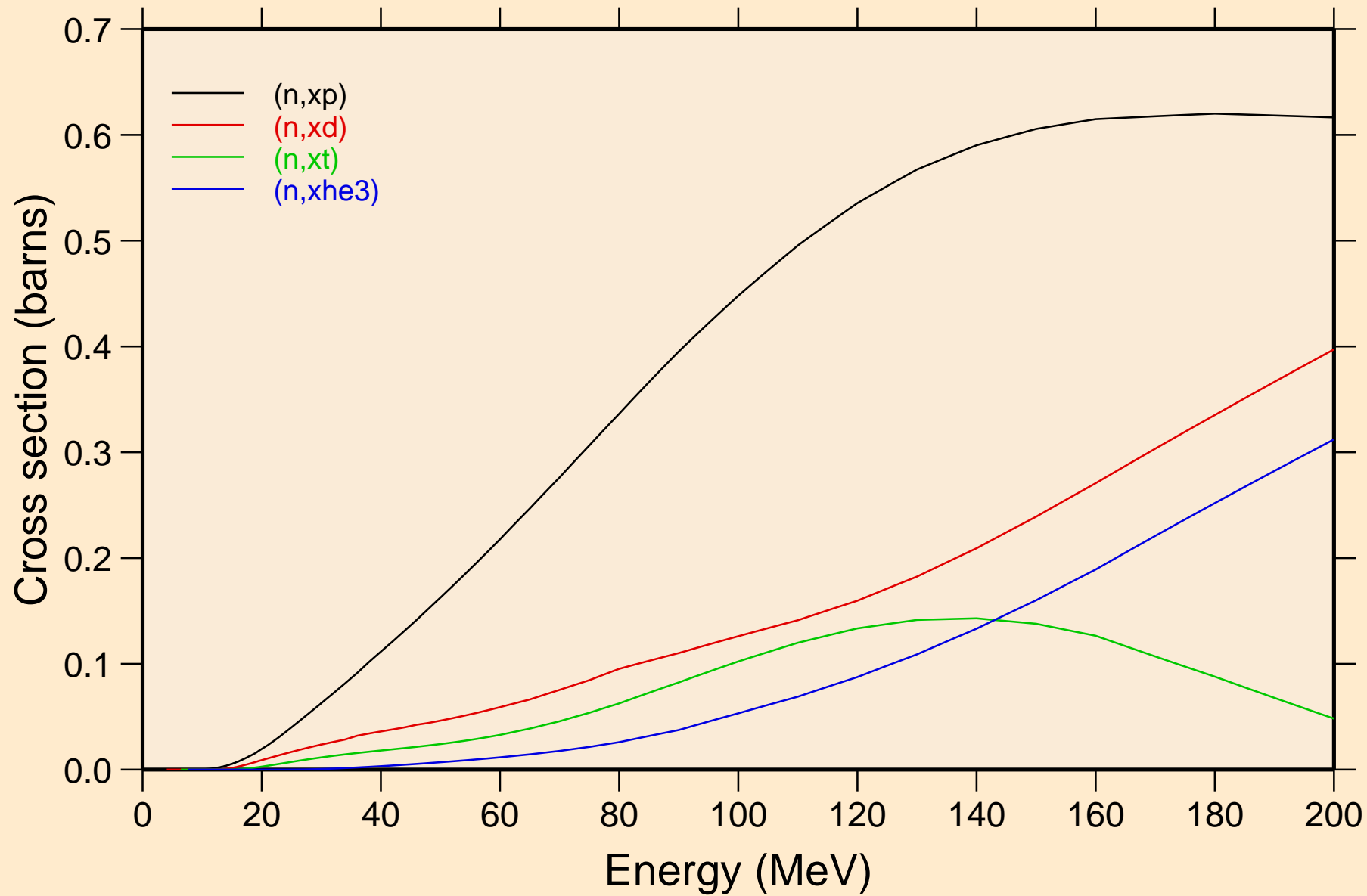
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



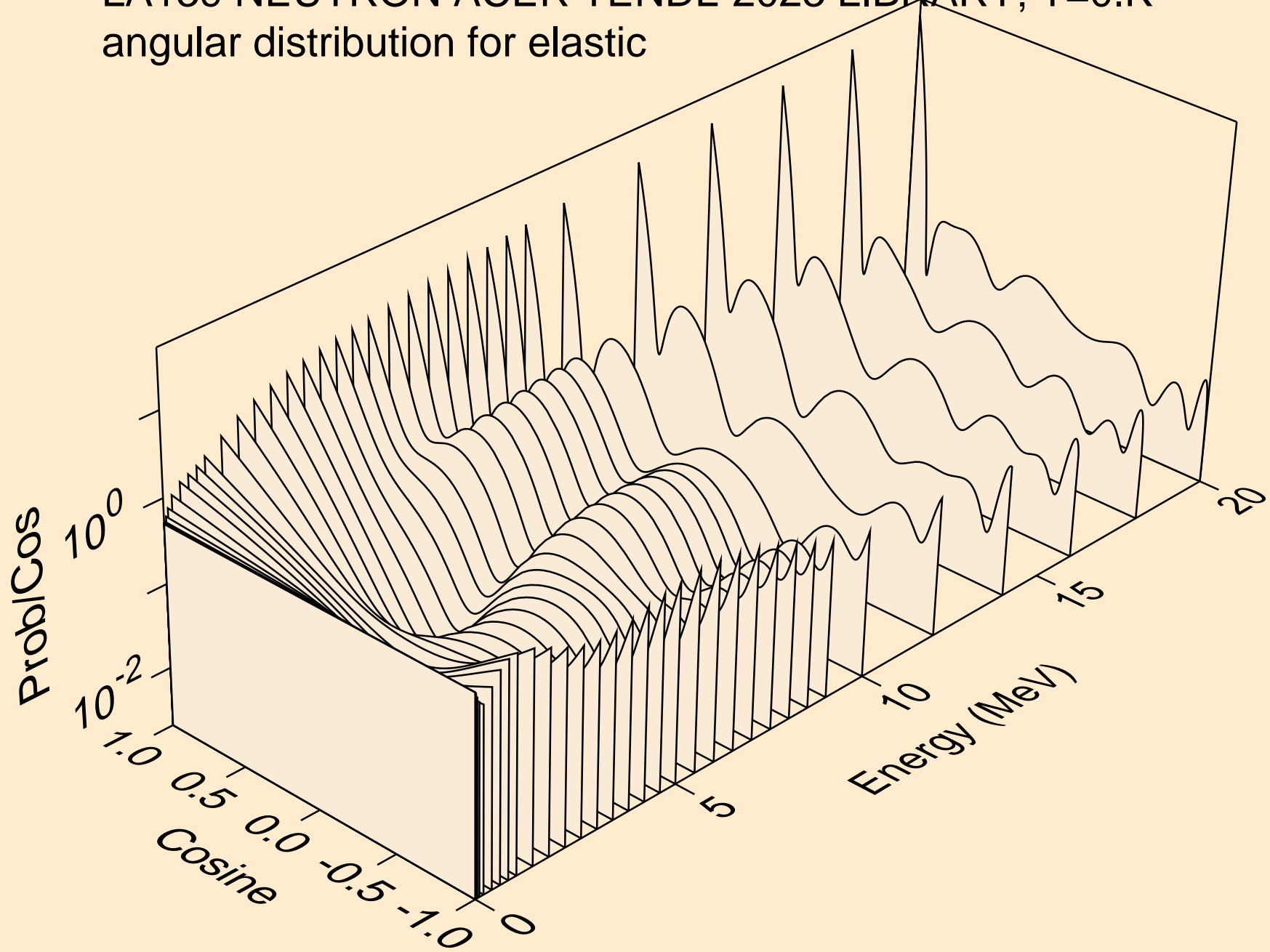
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

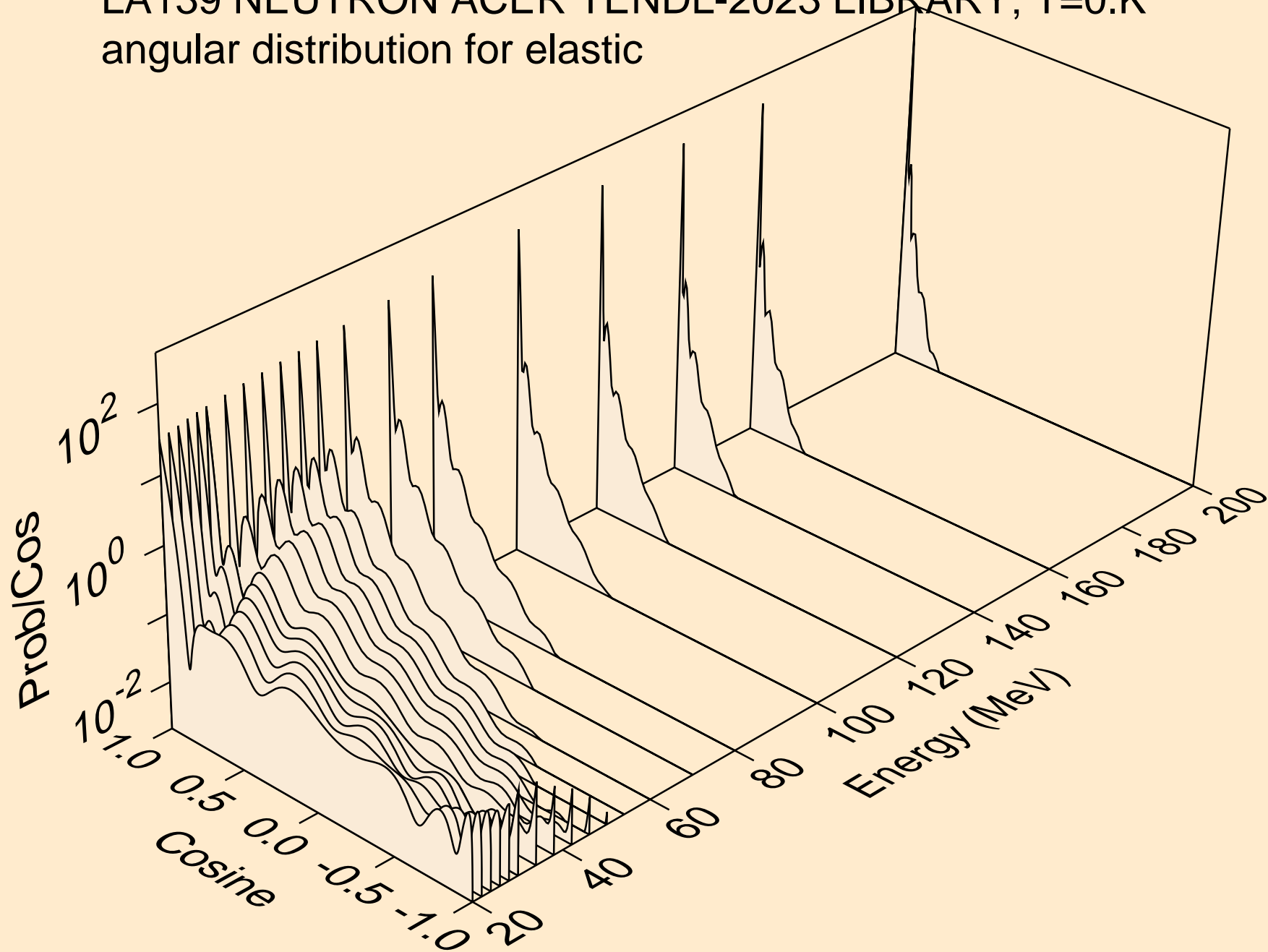


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

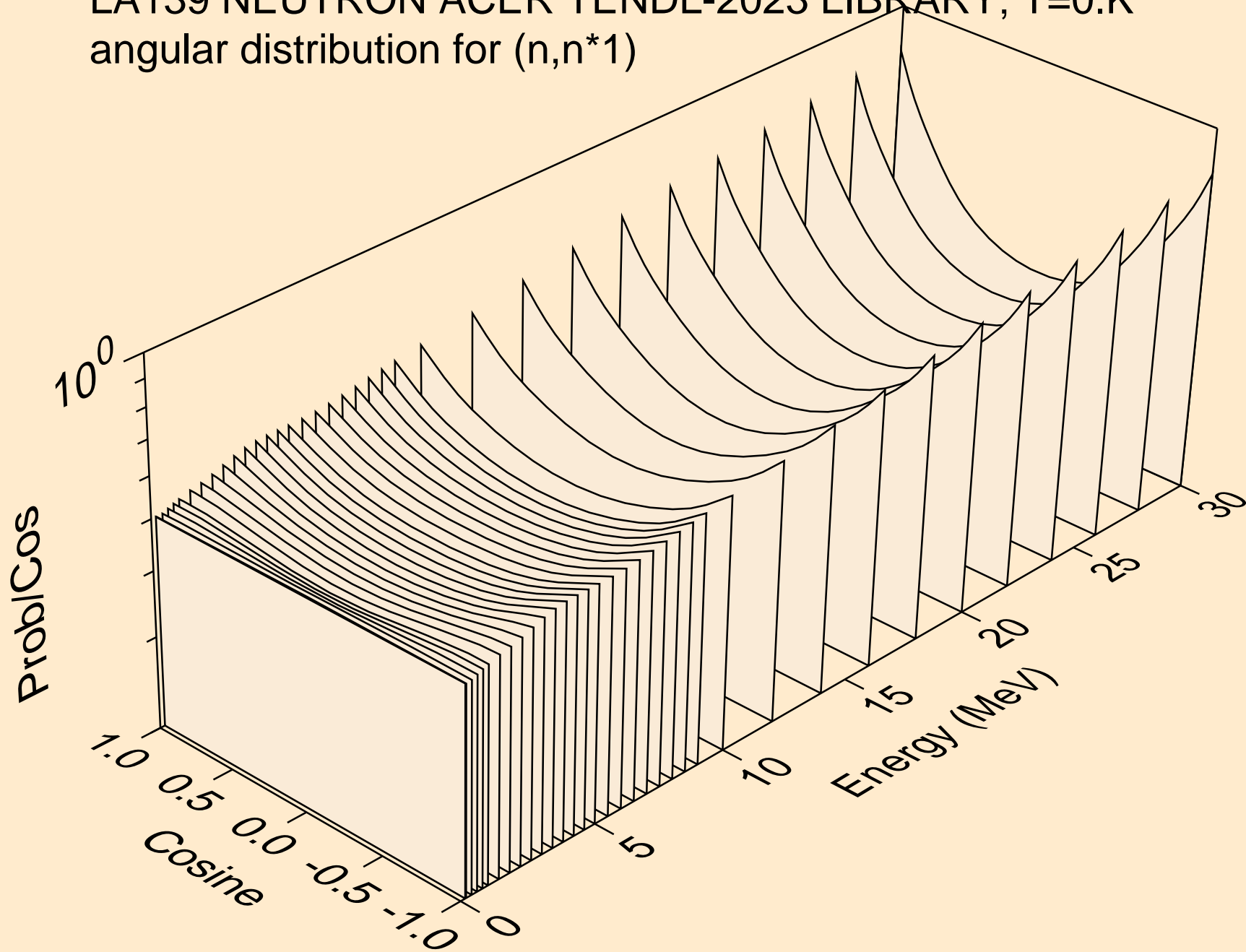




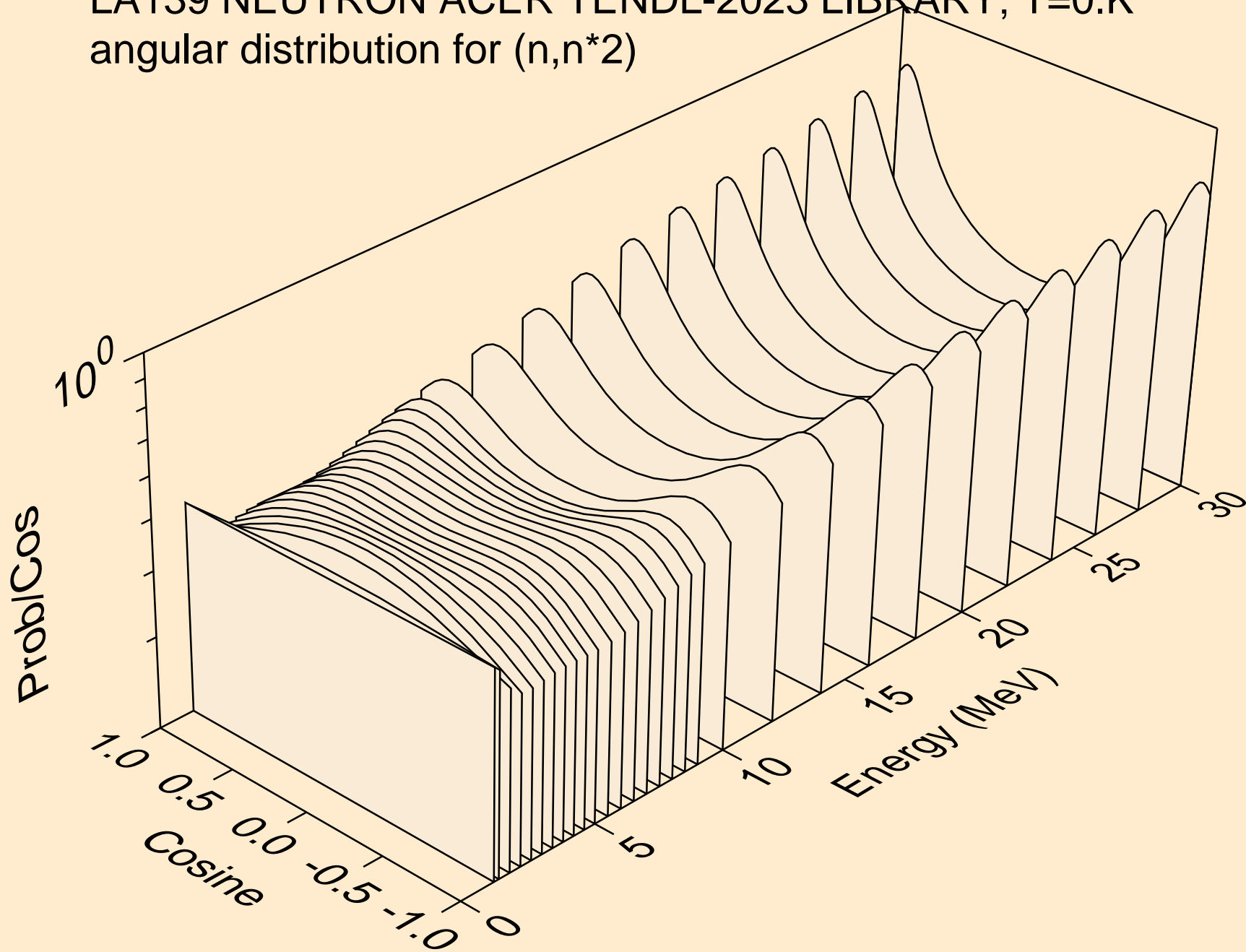
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



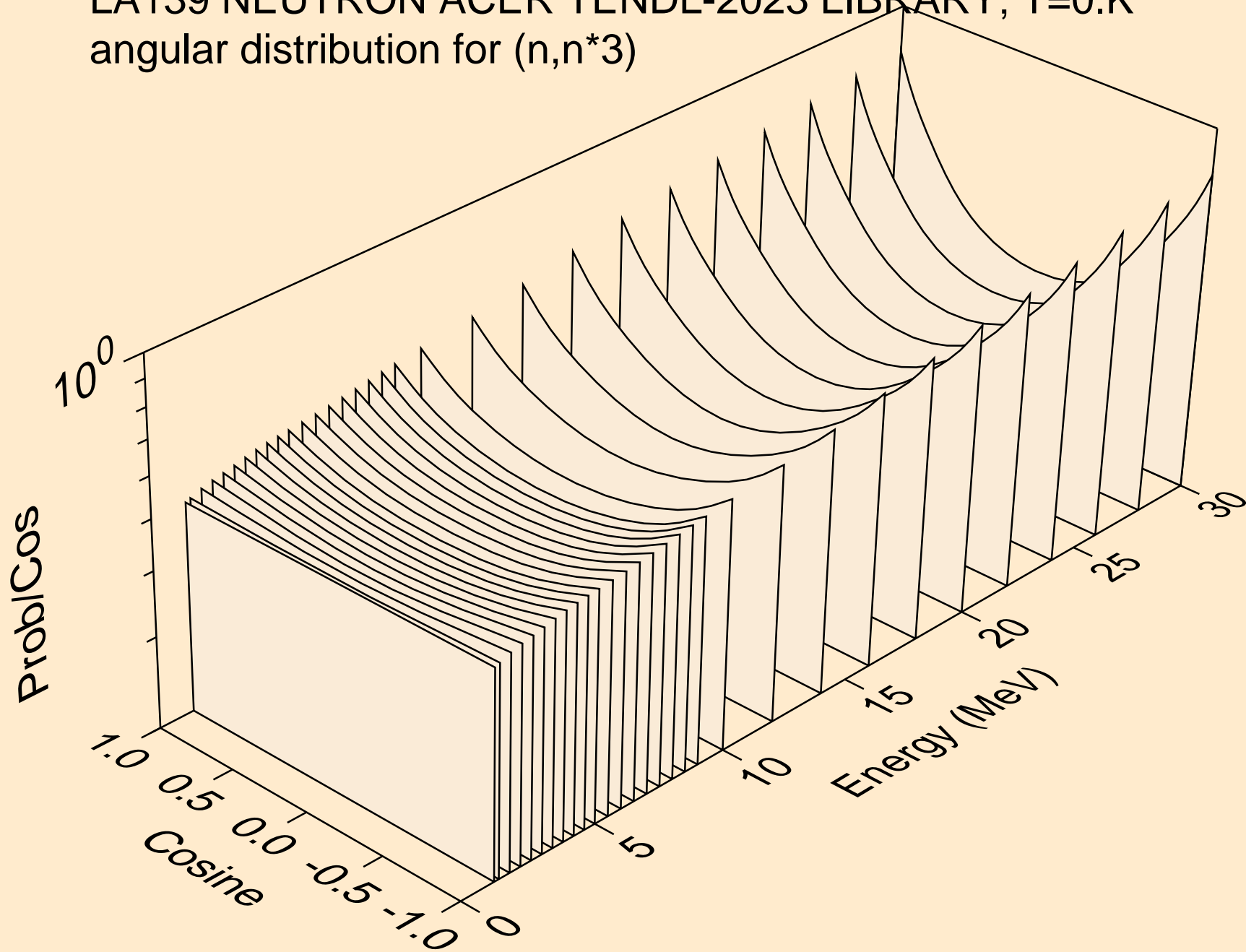
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



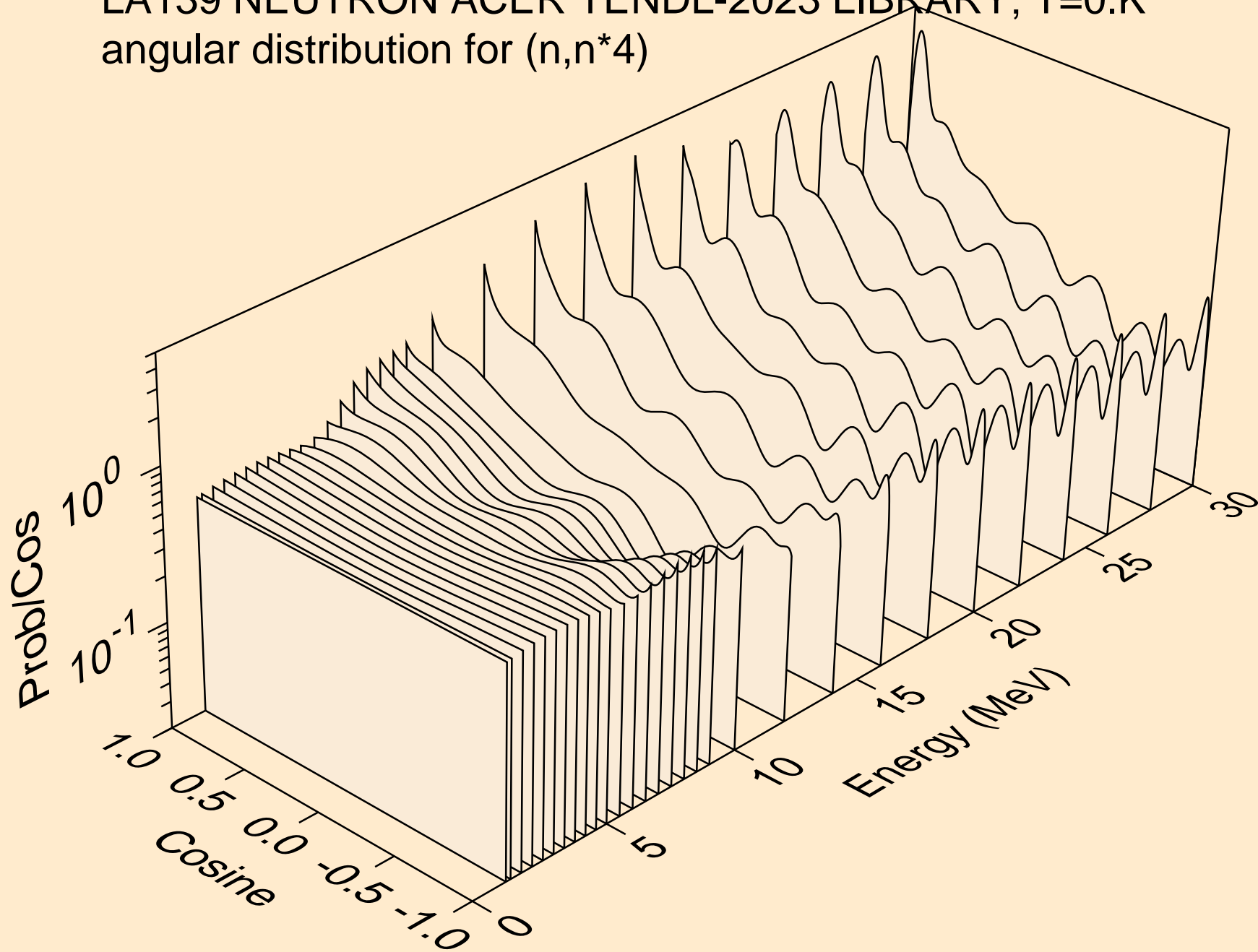
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angular distribution for (n,n\*2)



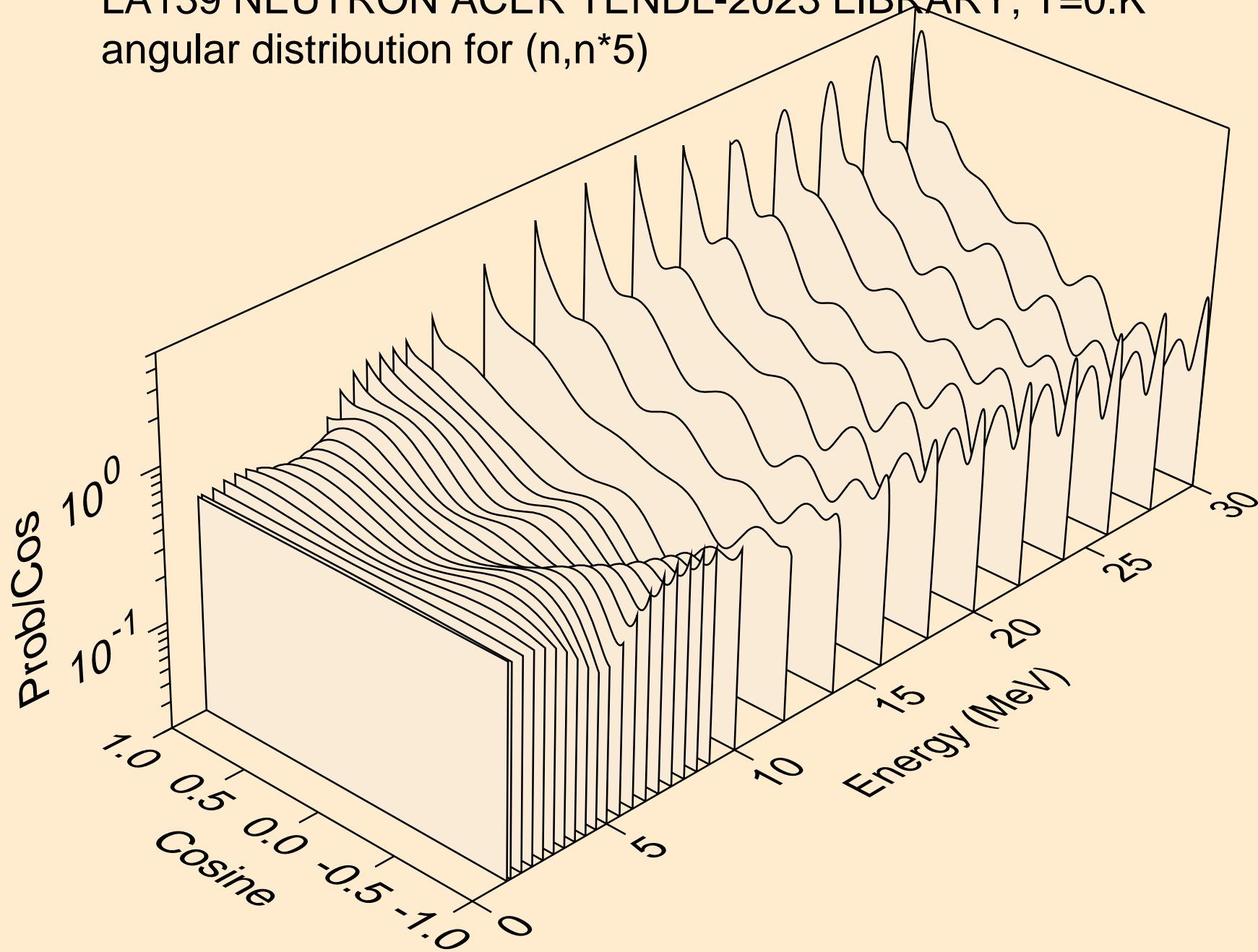
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angular distribution for (n,n\*3)



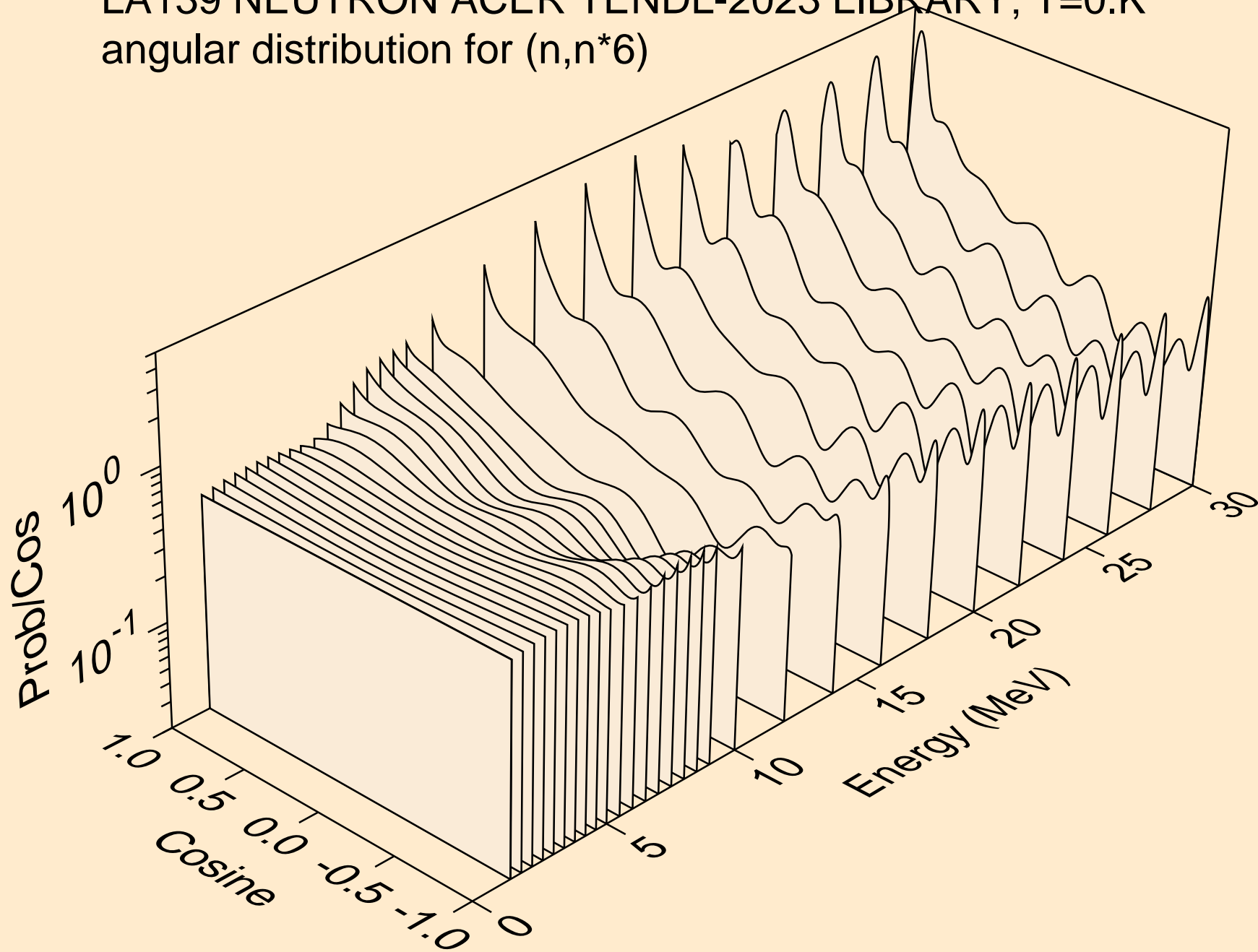
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angular distribution for (n,n\*4)



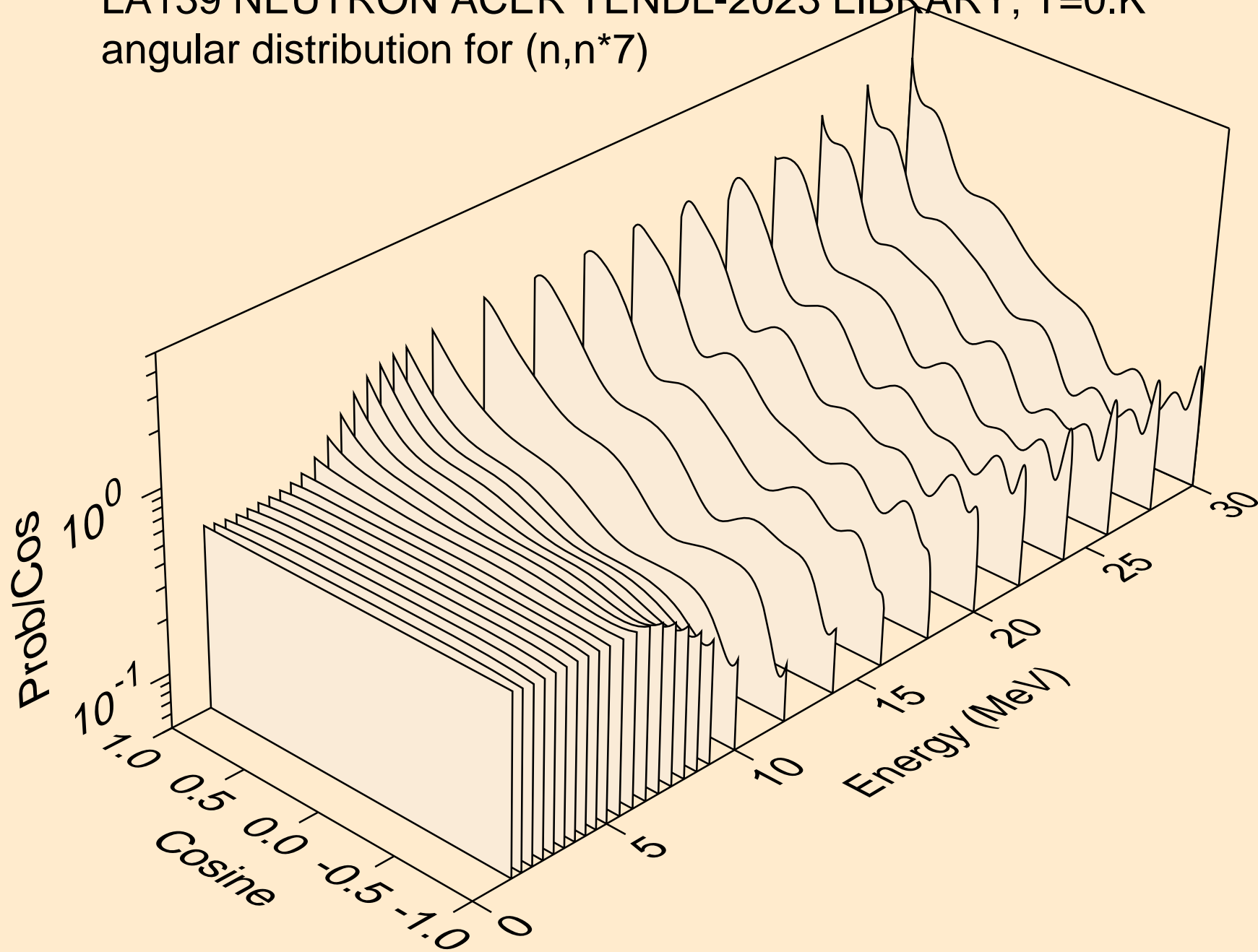
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

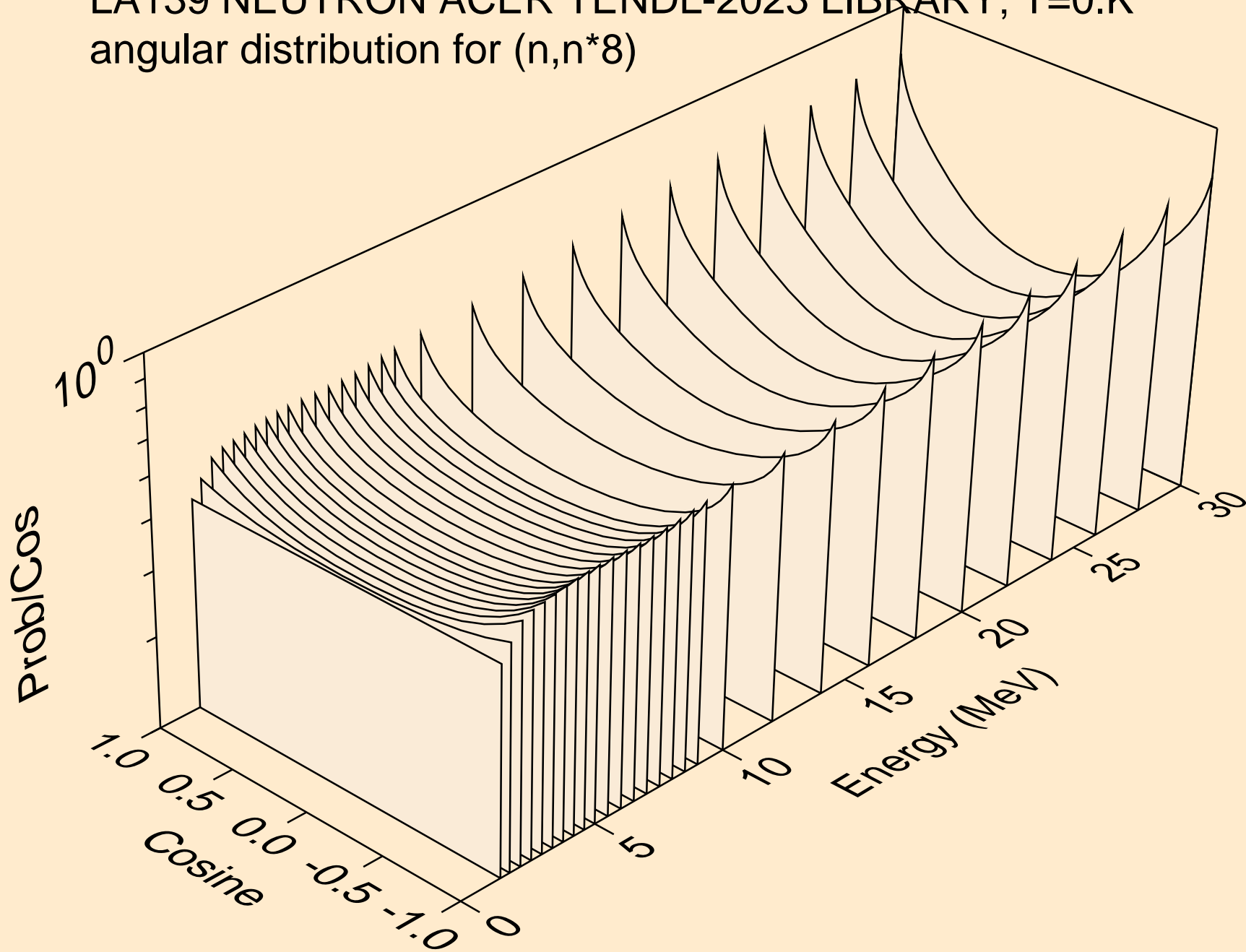


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

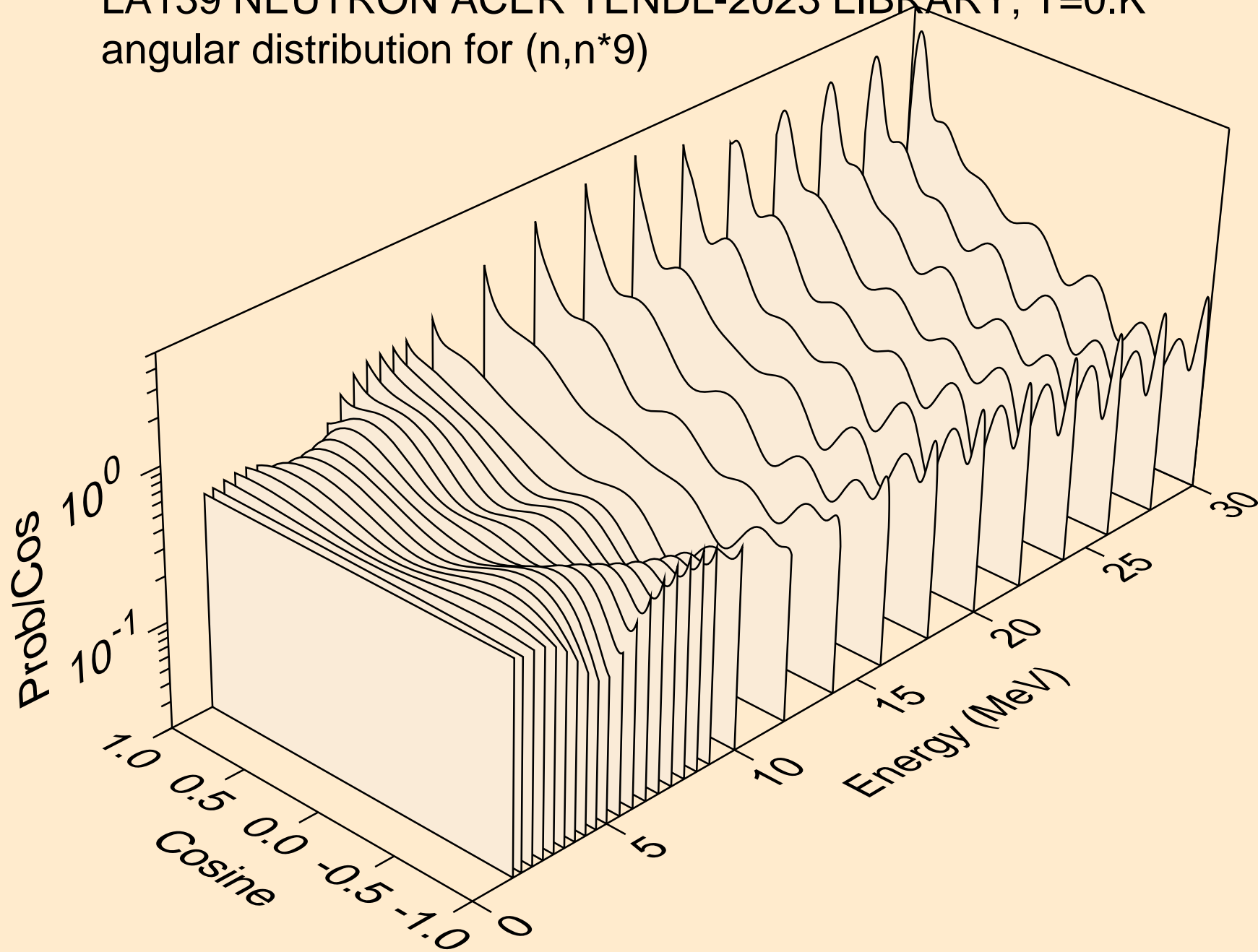




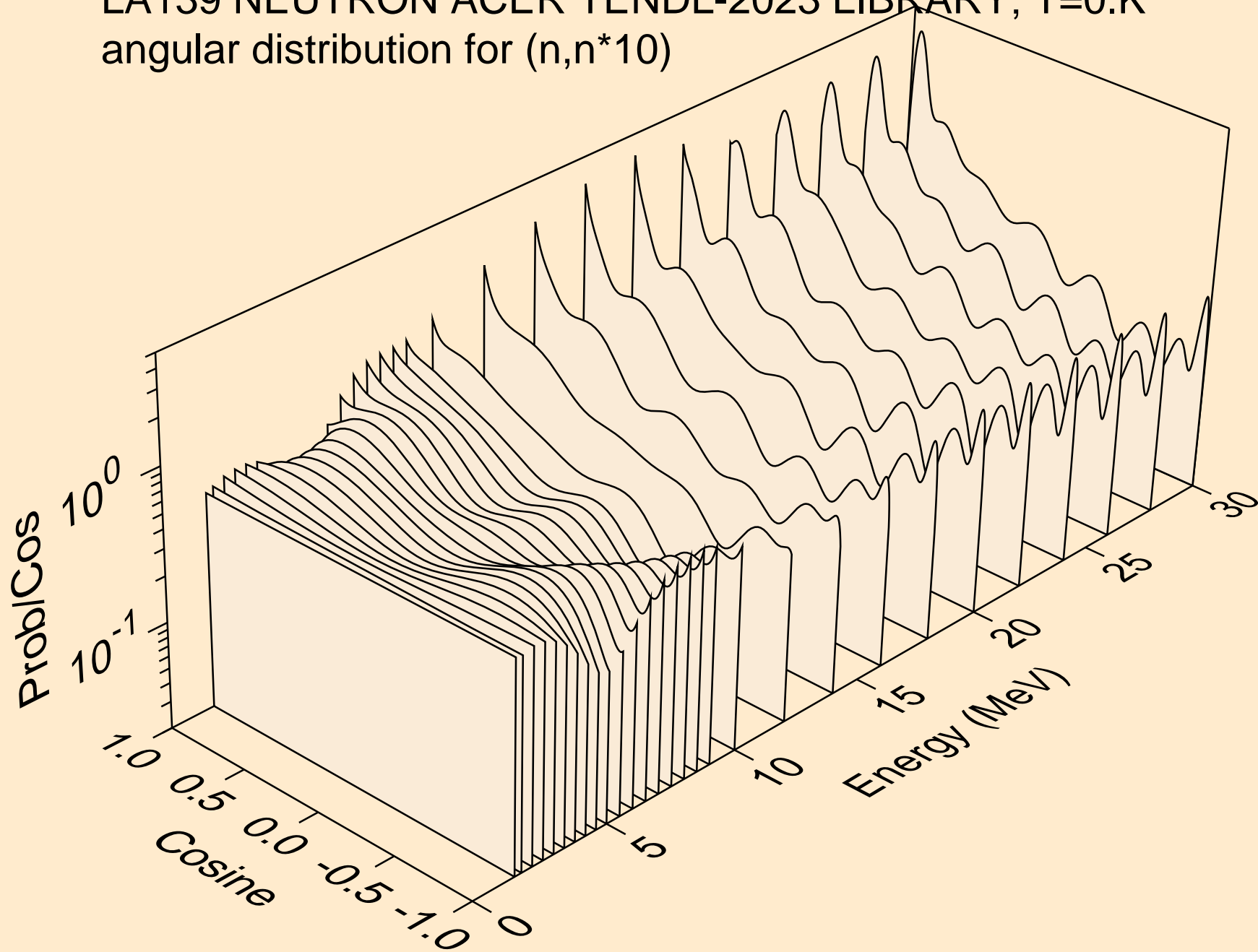
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angular distribution for (n,n\*8)



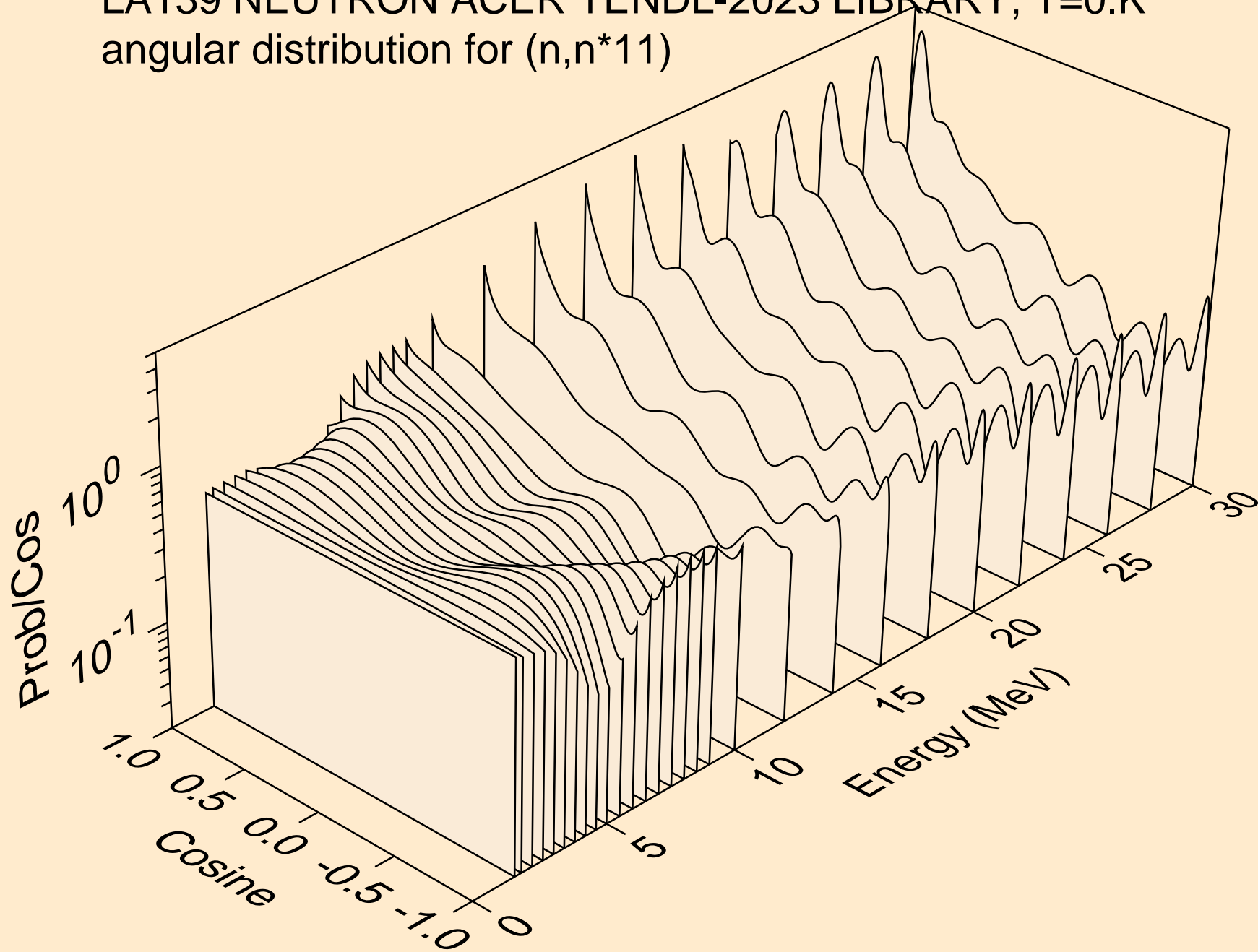
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angular distribution for (n,n\*9)



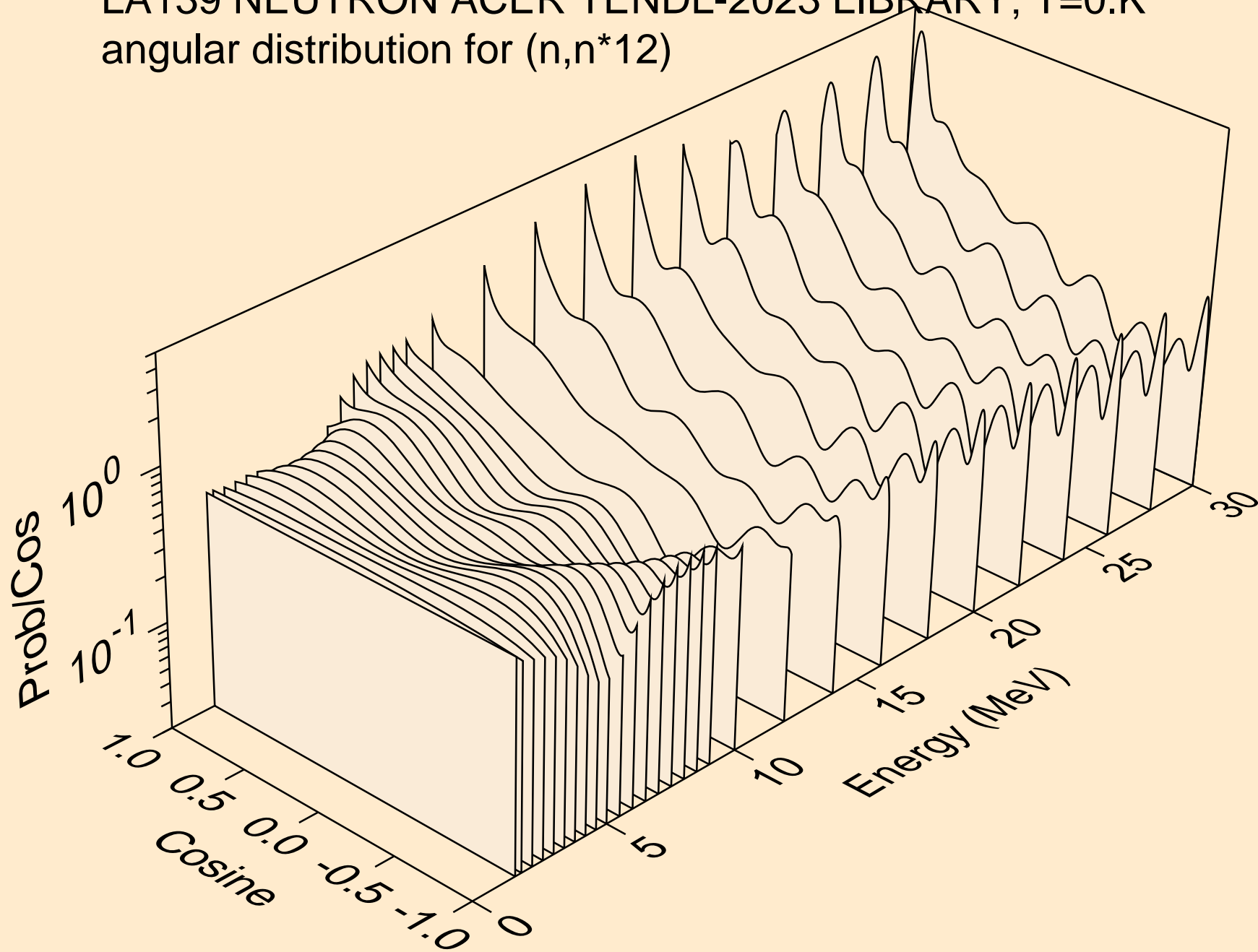
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angular distribution for (n,n\*10)



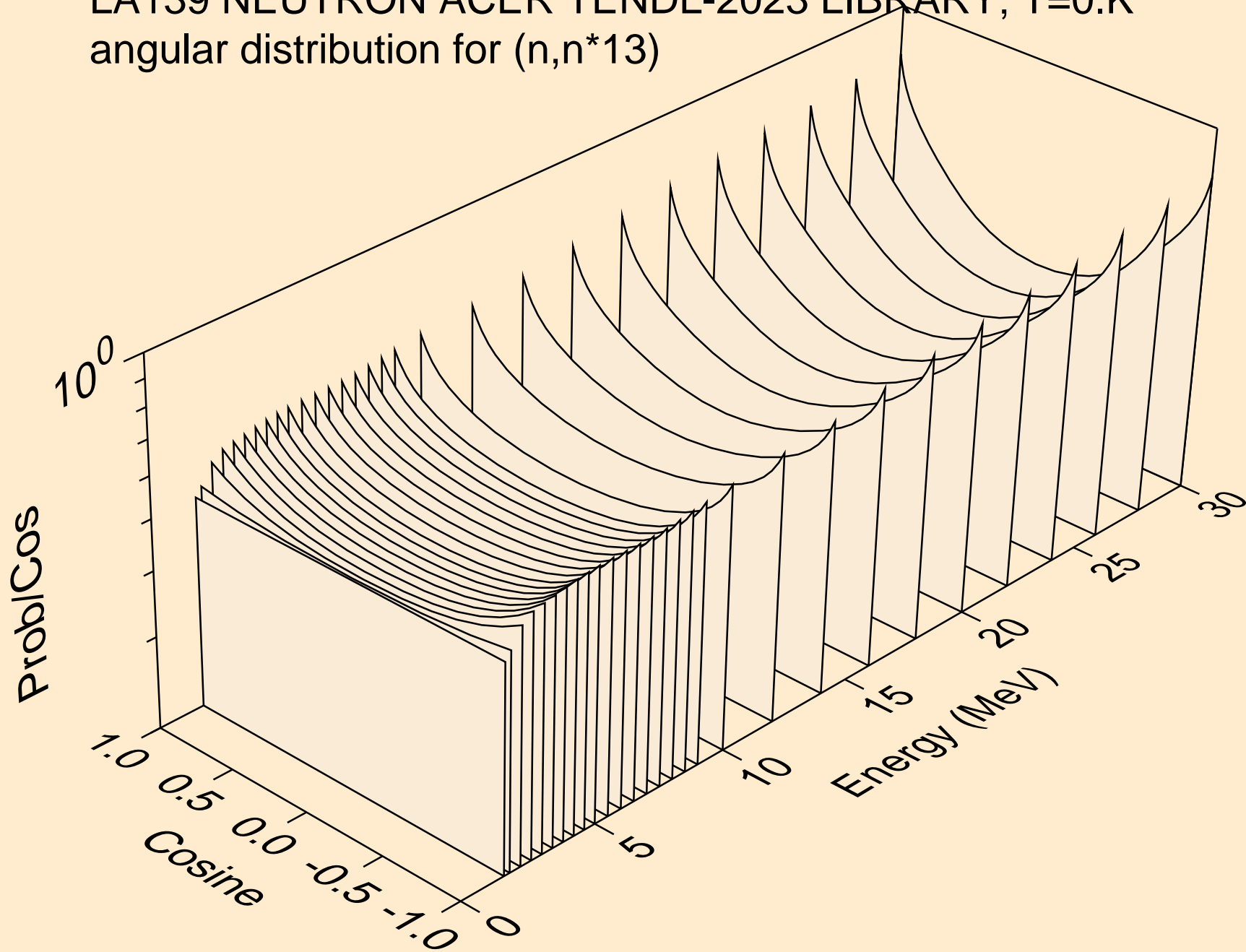
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angular distribution for (n,n\*11)



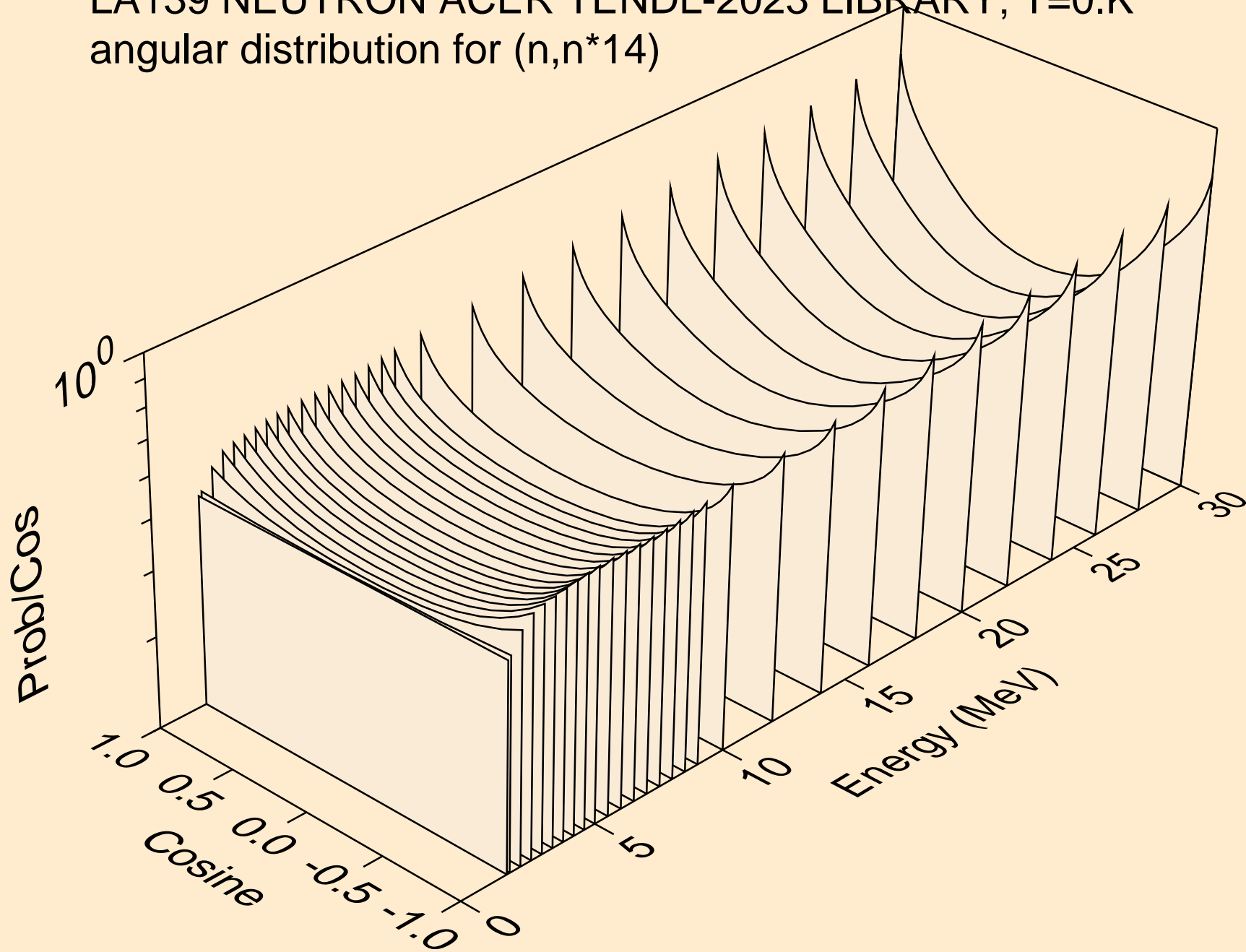
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angular distribution for (n,n\*12)



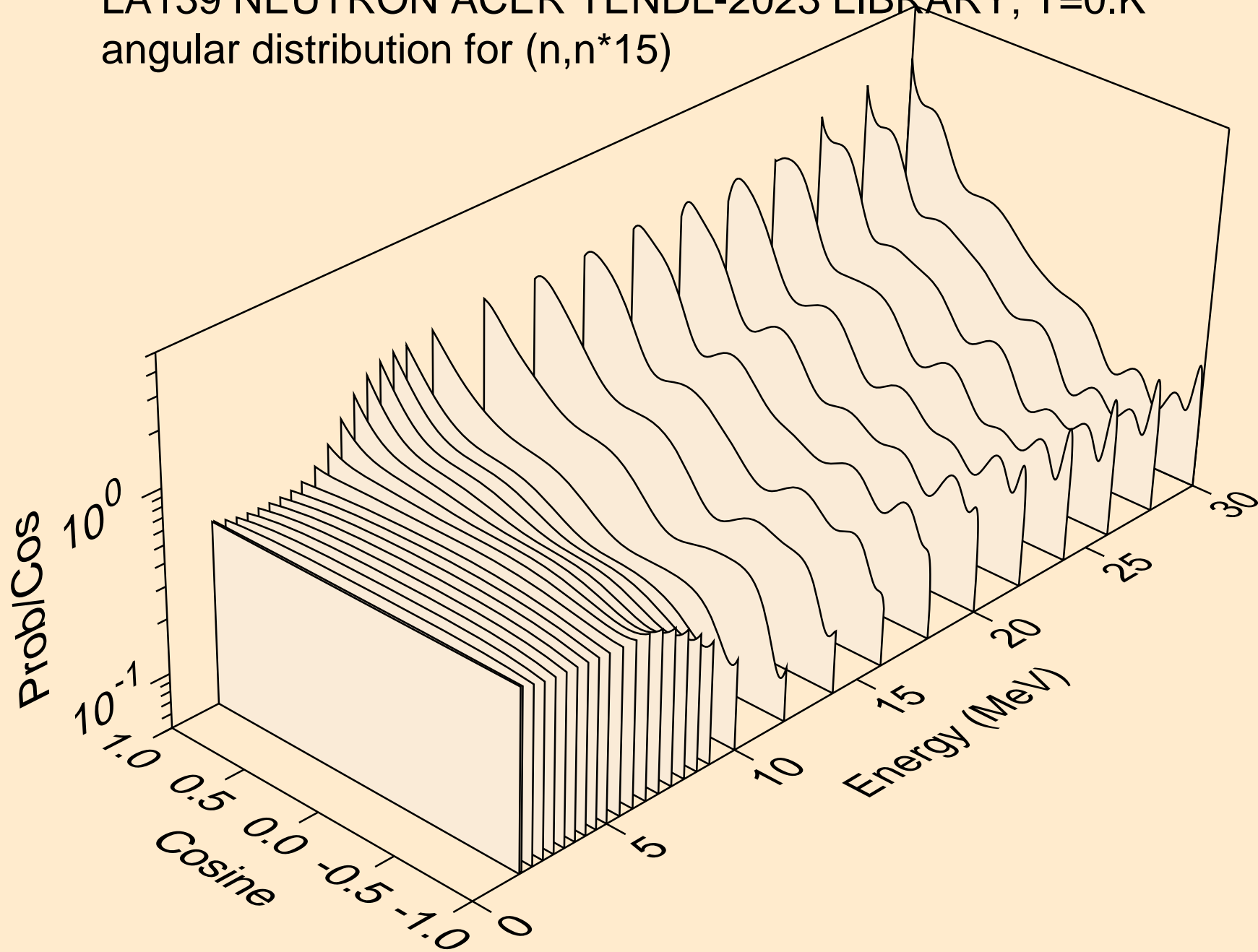
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

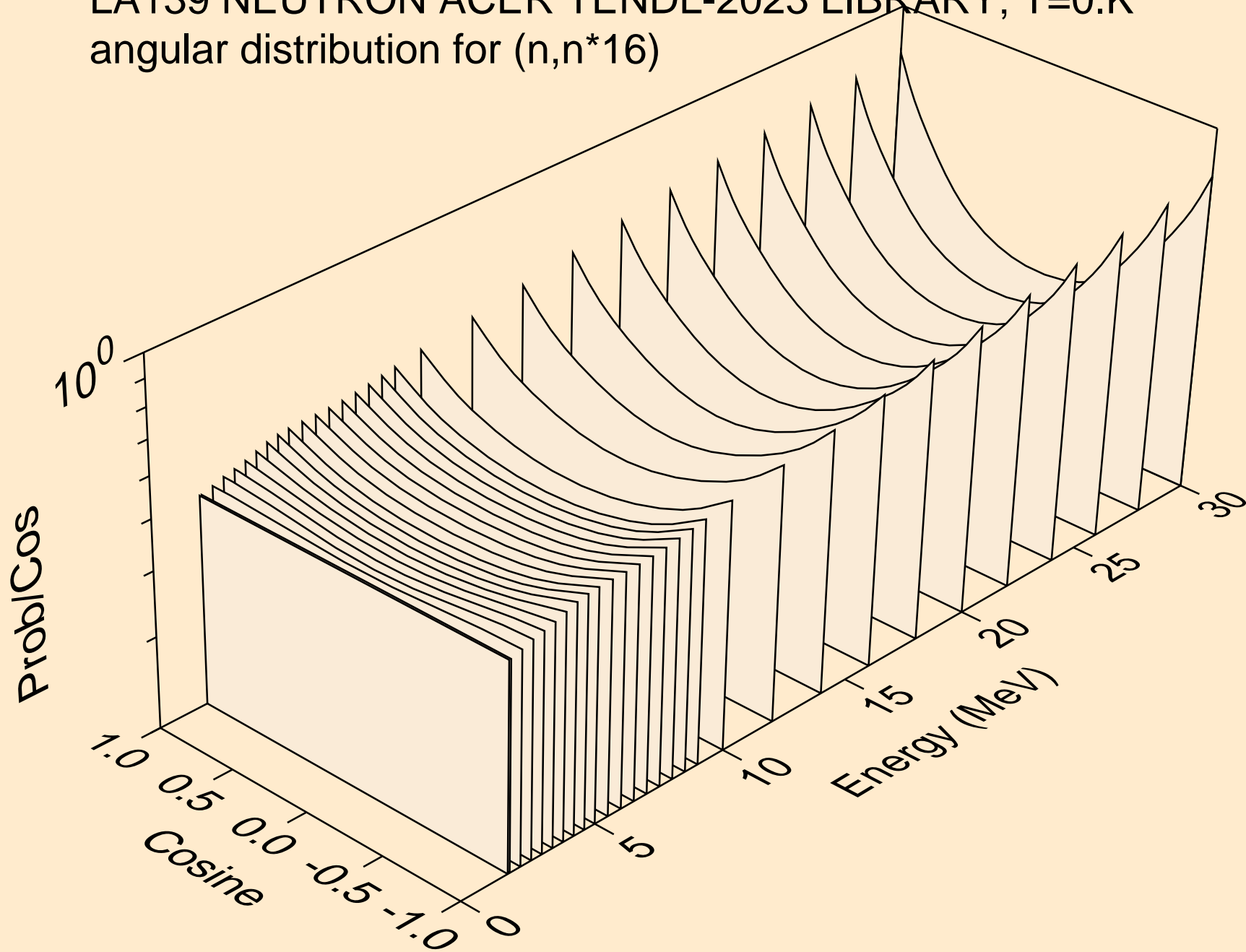


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

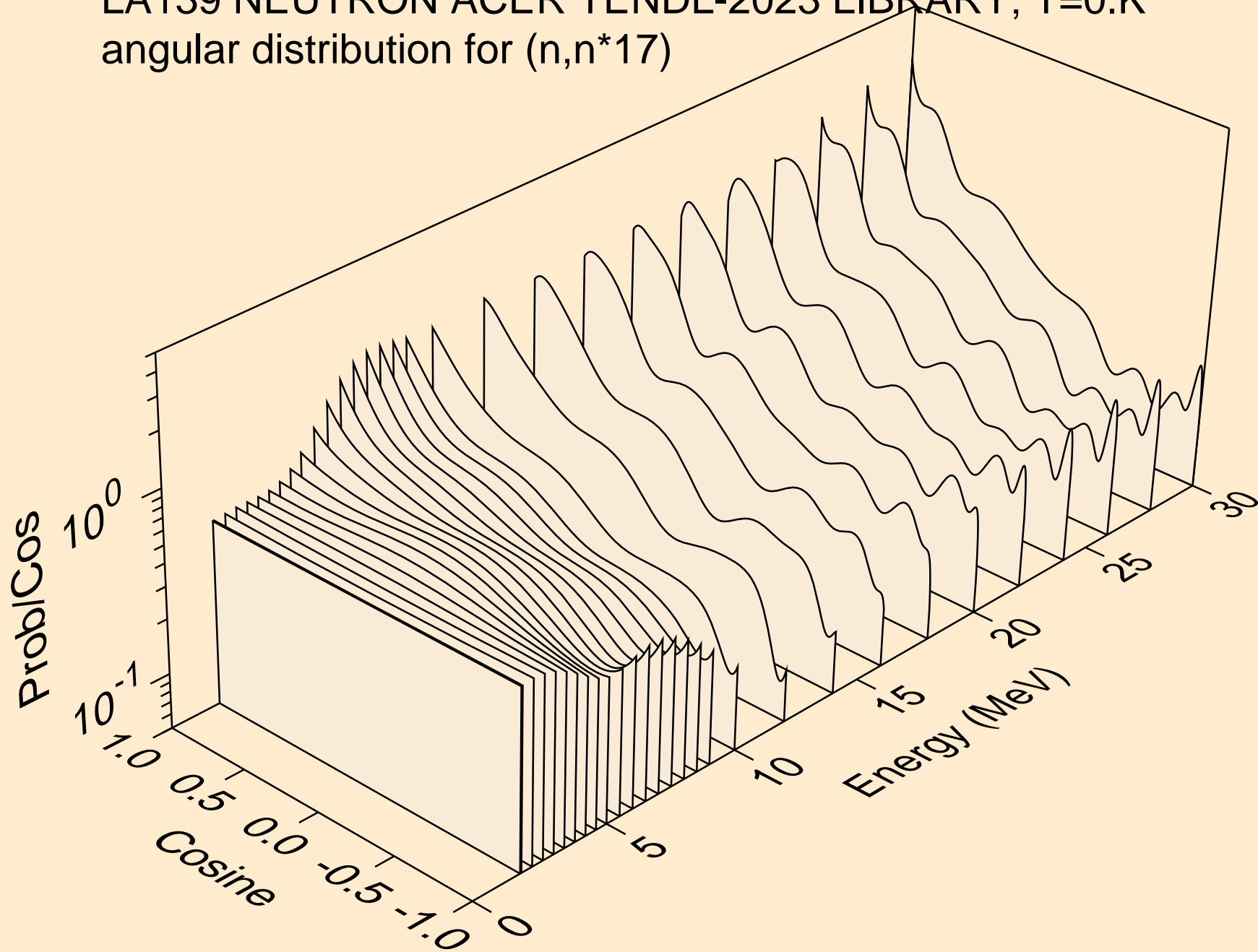




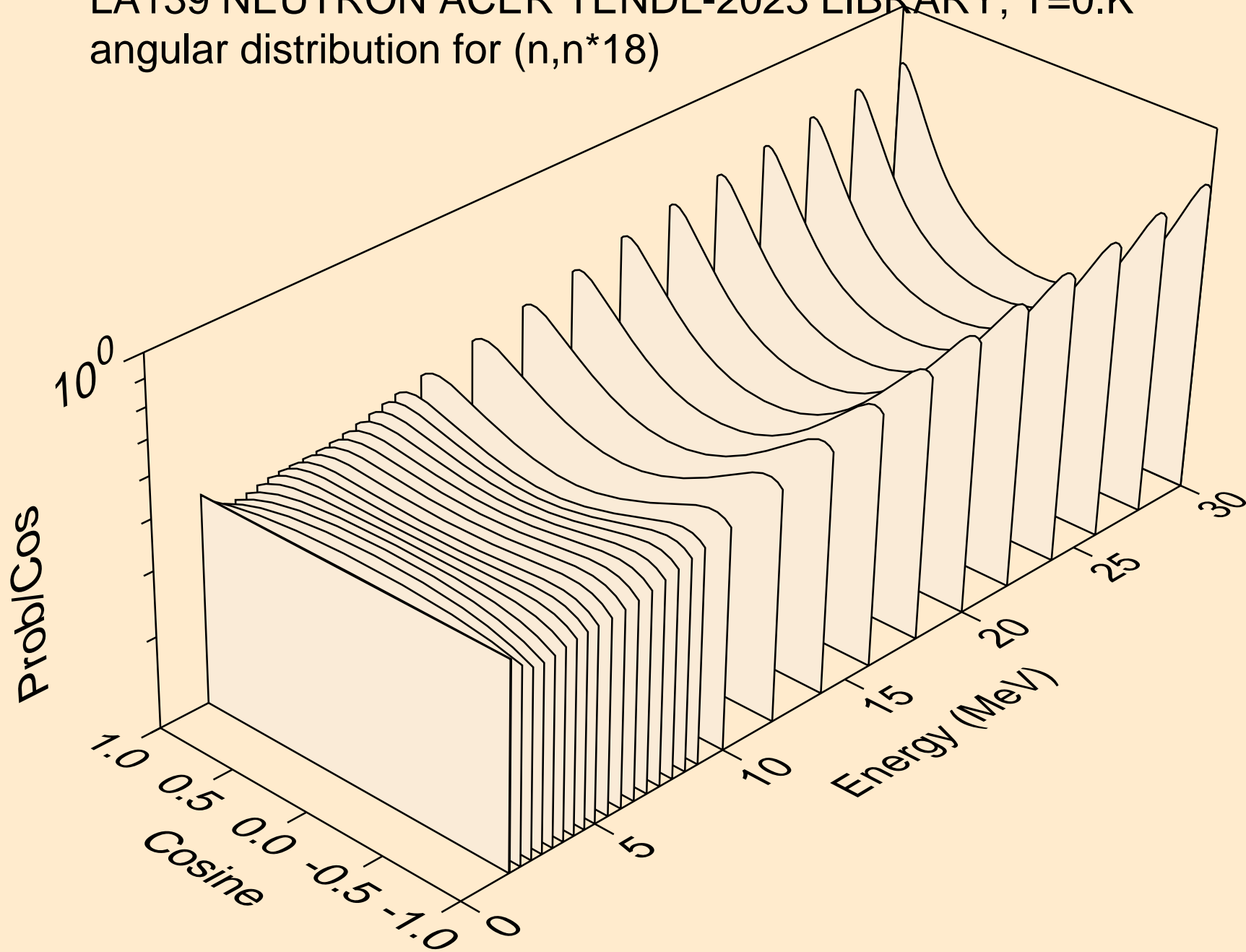
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angular distribution for (n,n\*16)



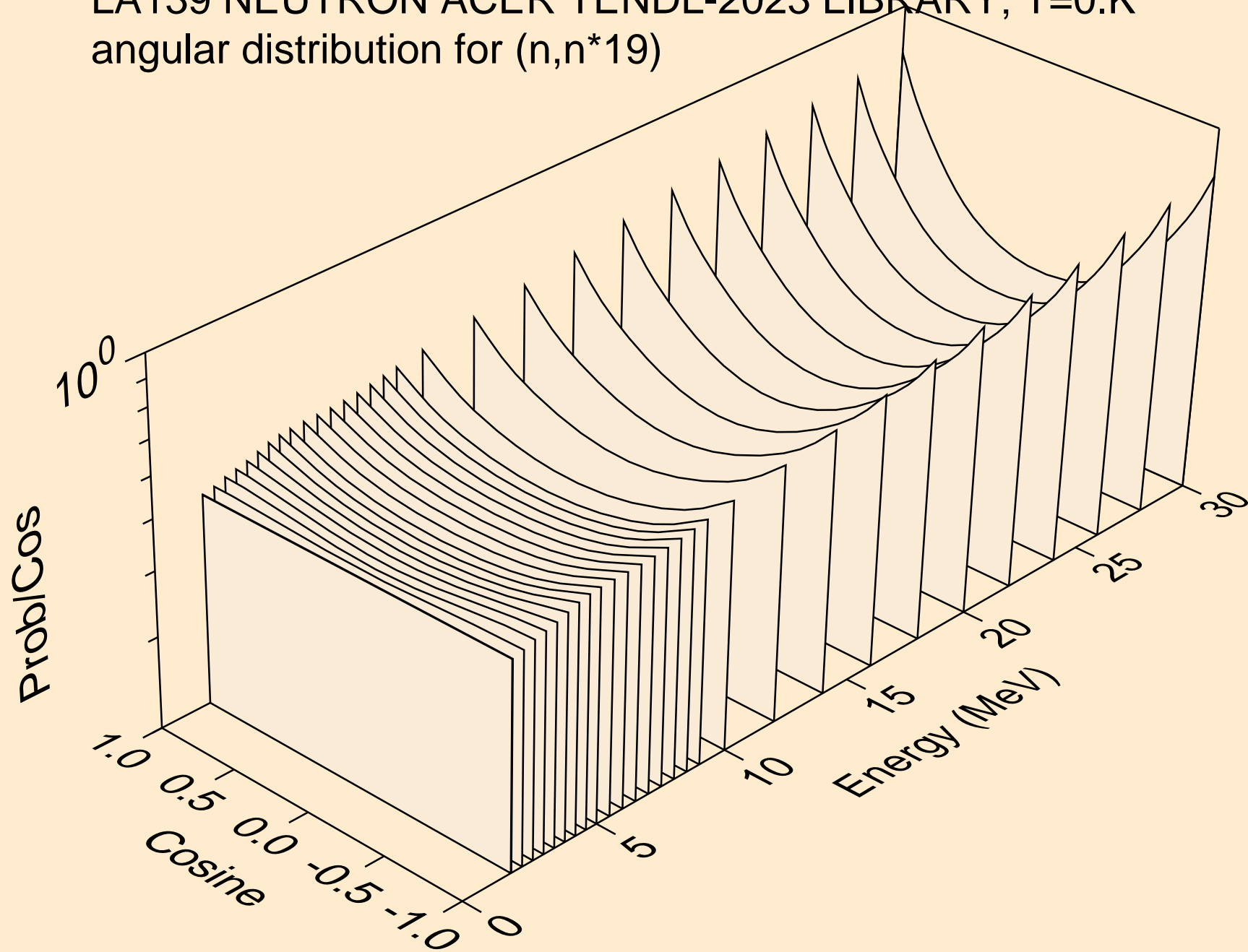
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angular distribution for (n,n\*17)



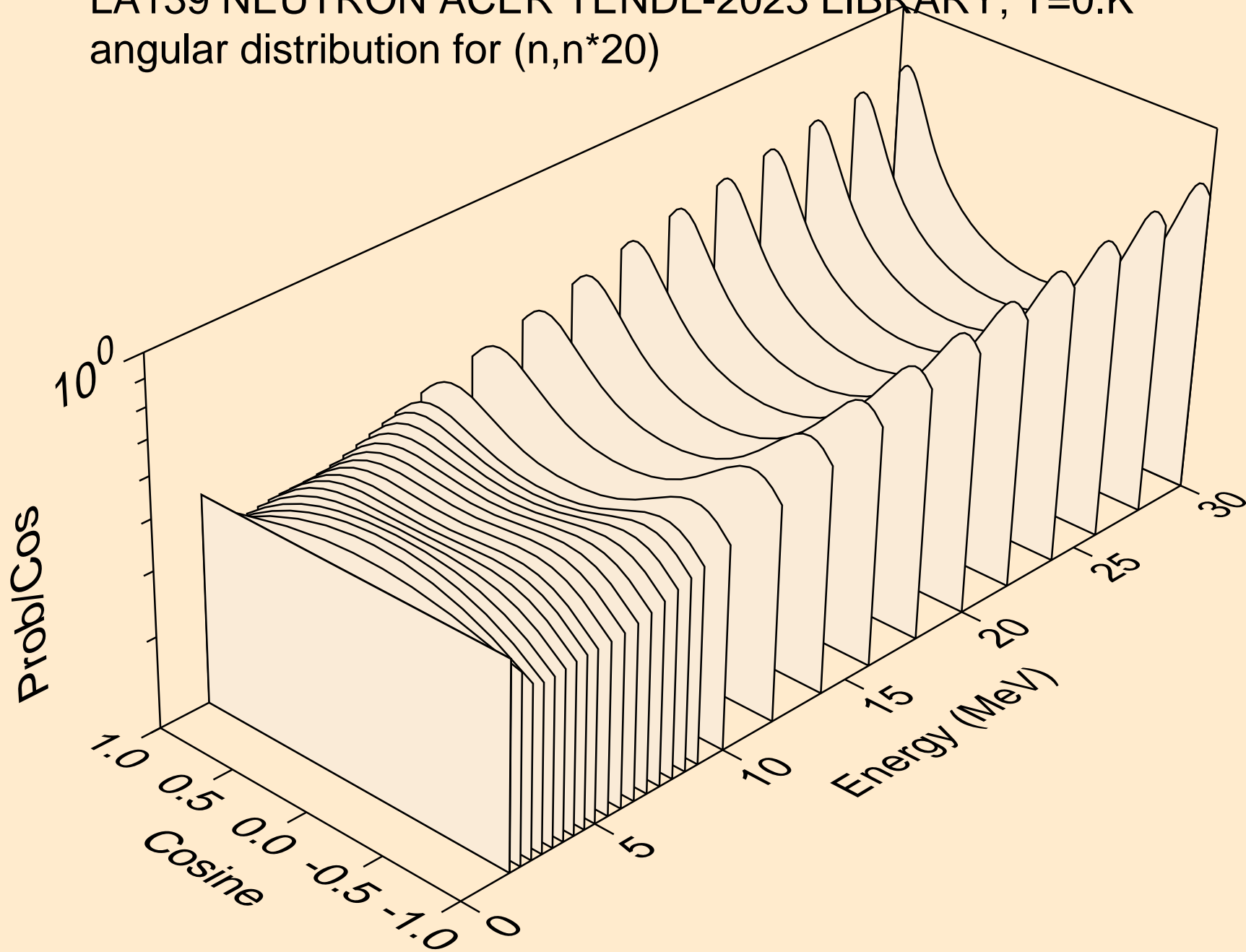
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angular distribution for (n,n\*18)



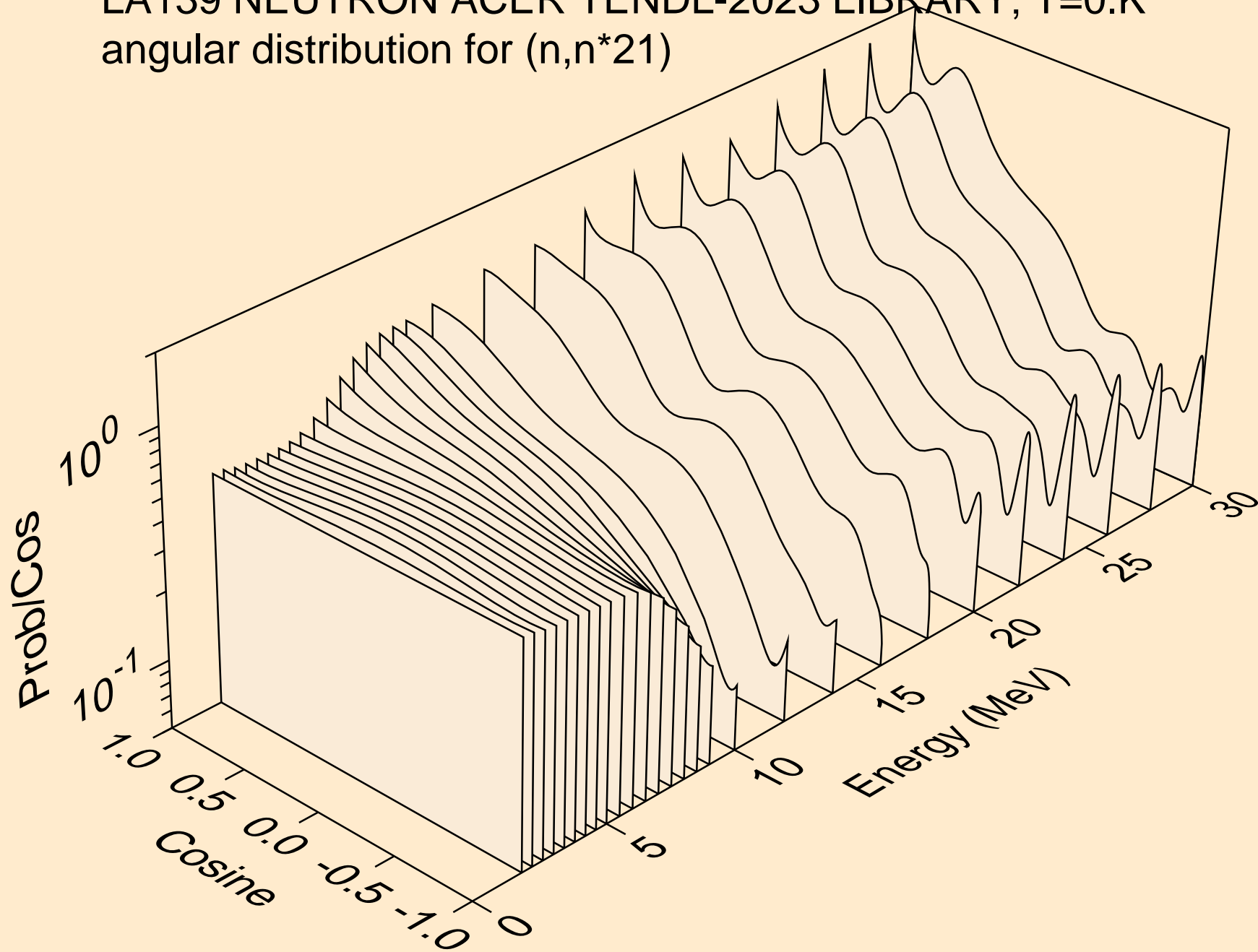
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angular distribution for (n,n\*19)



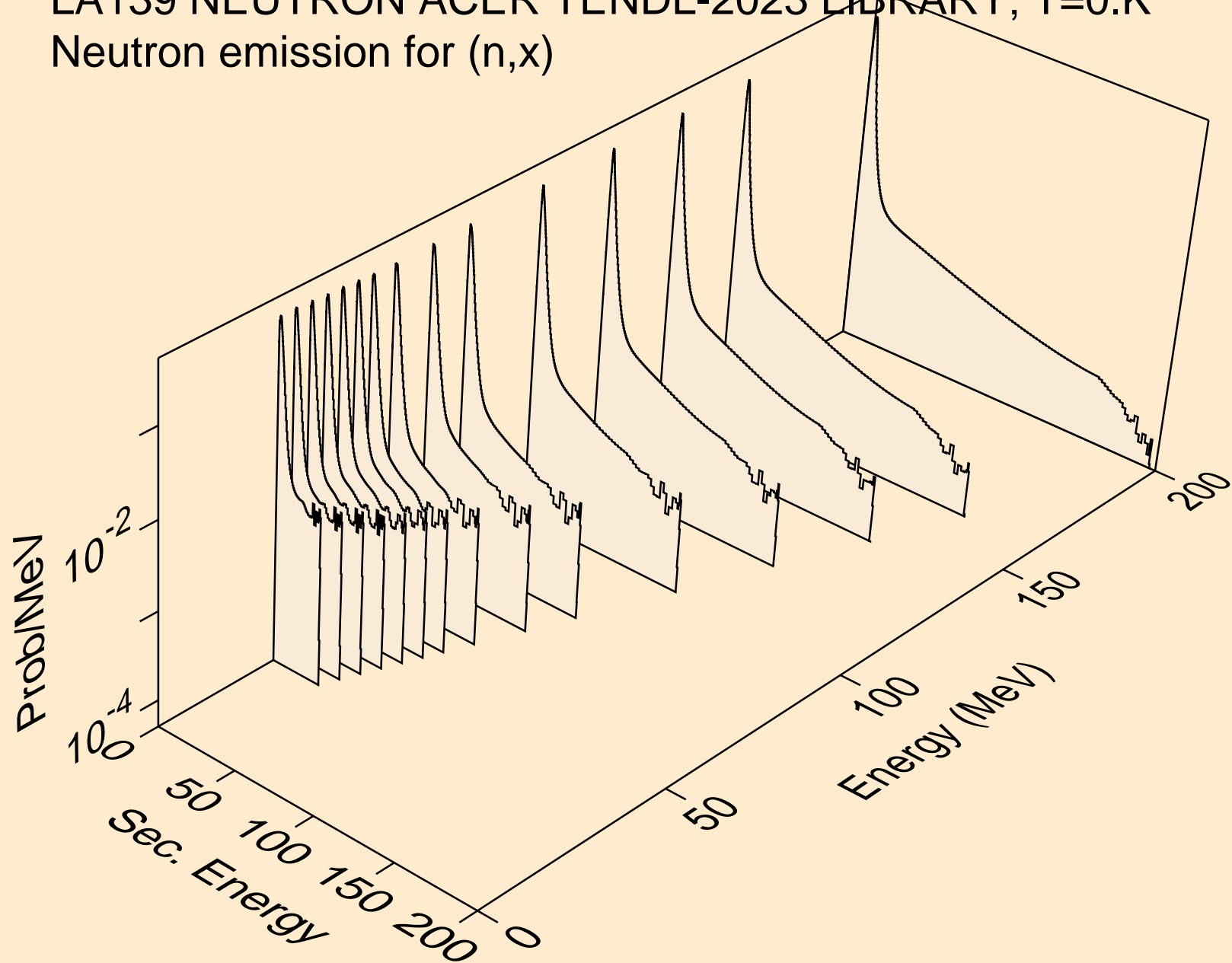
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angular distribution for (n,n\*20)



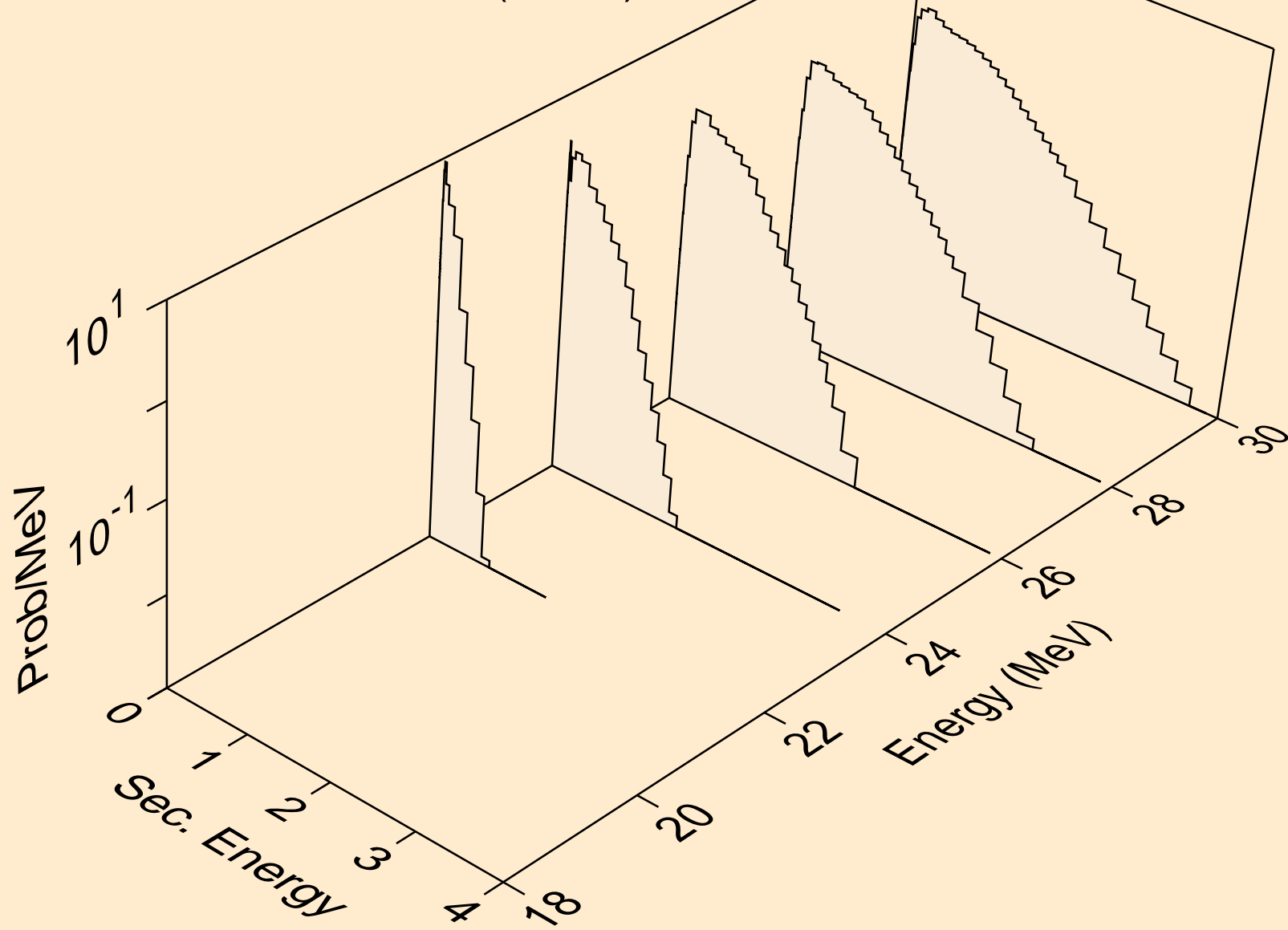
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

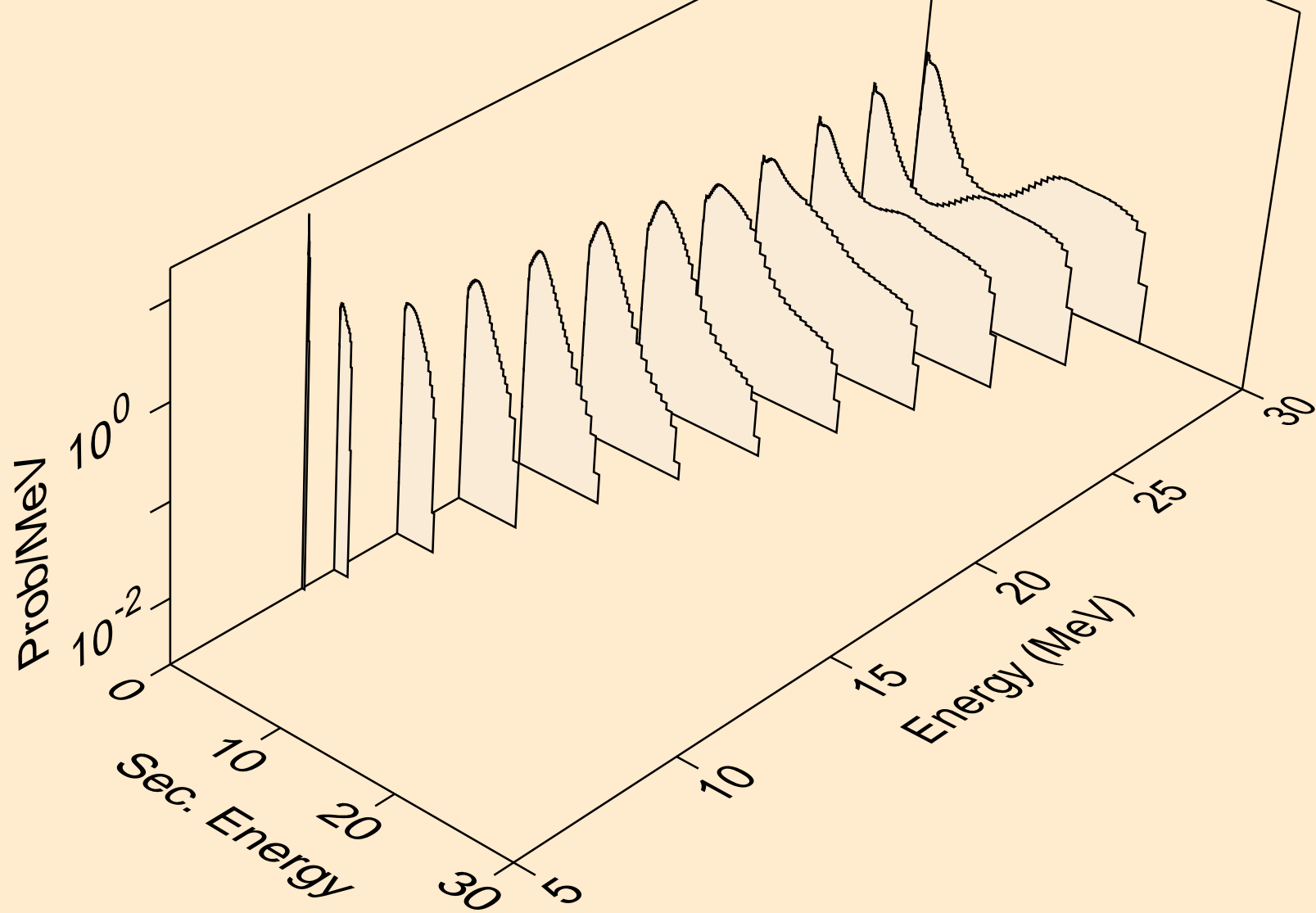


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)

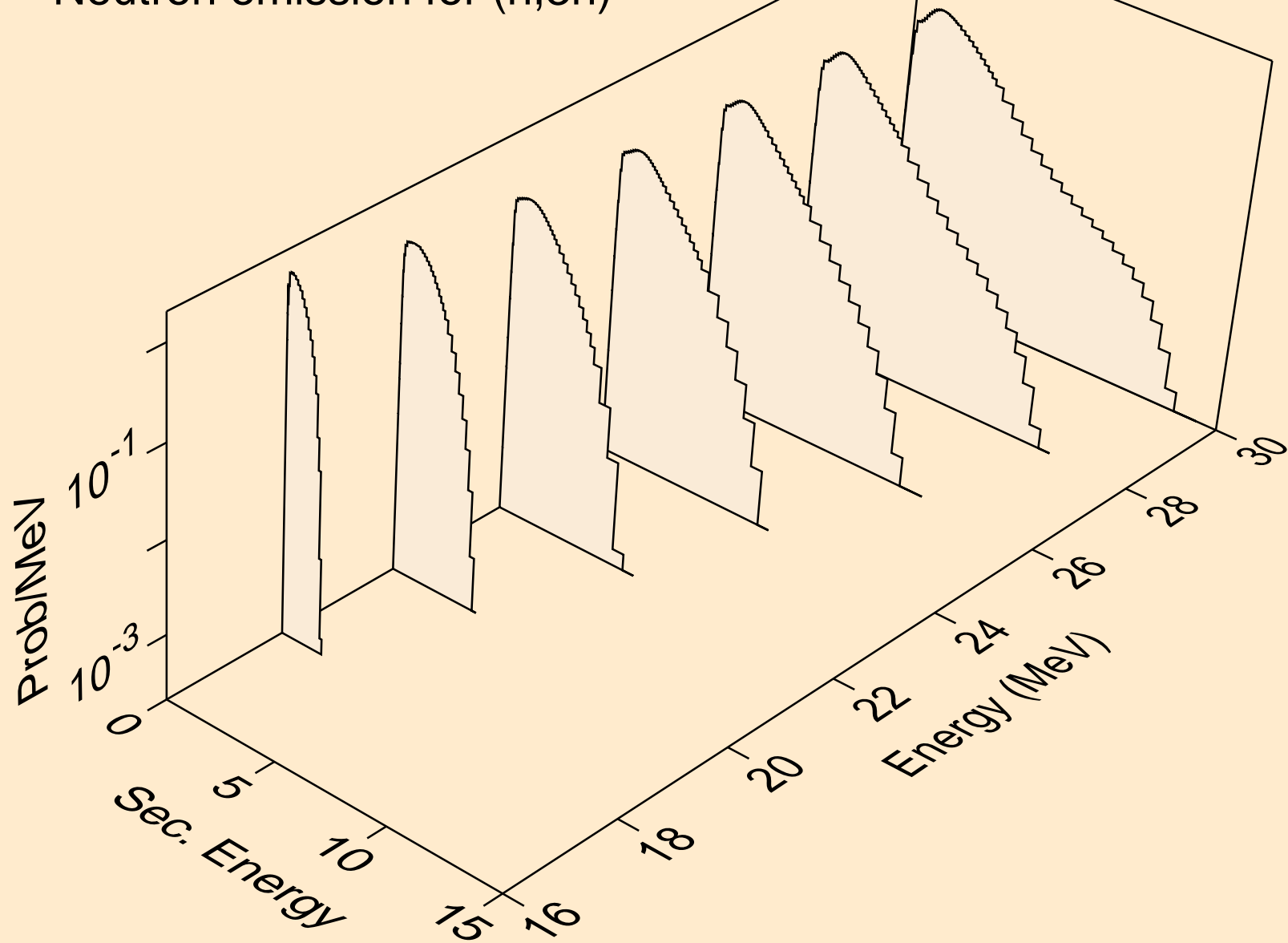




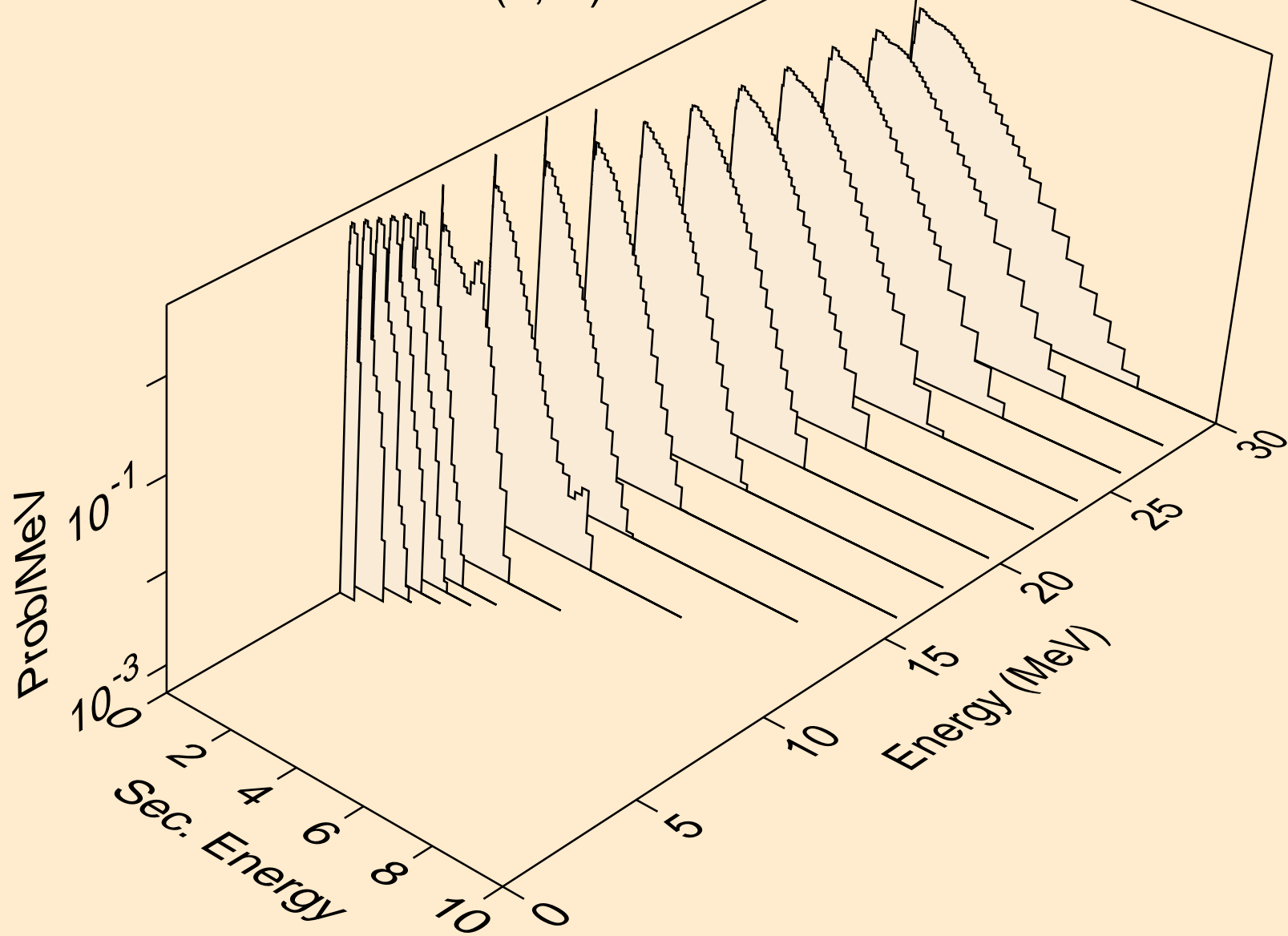
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



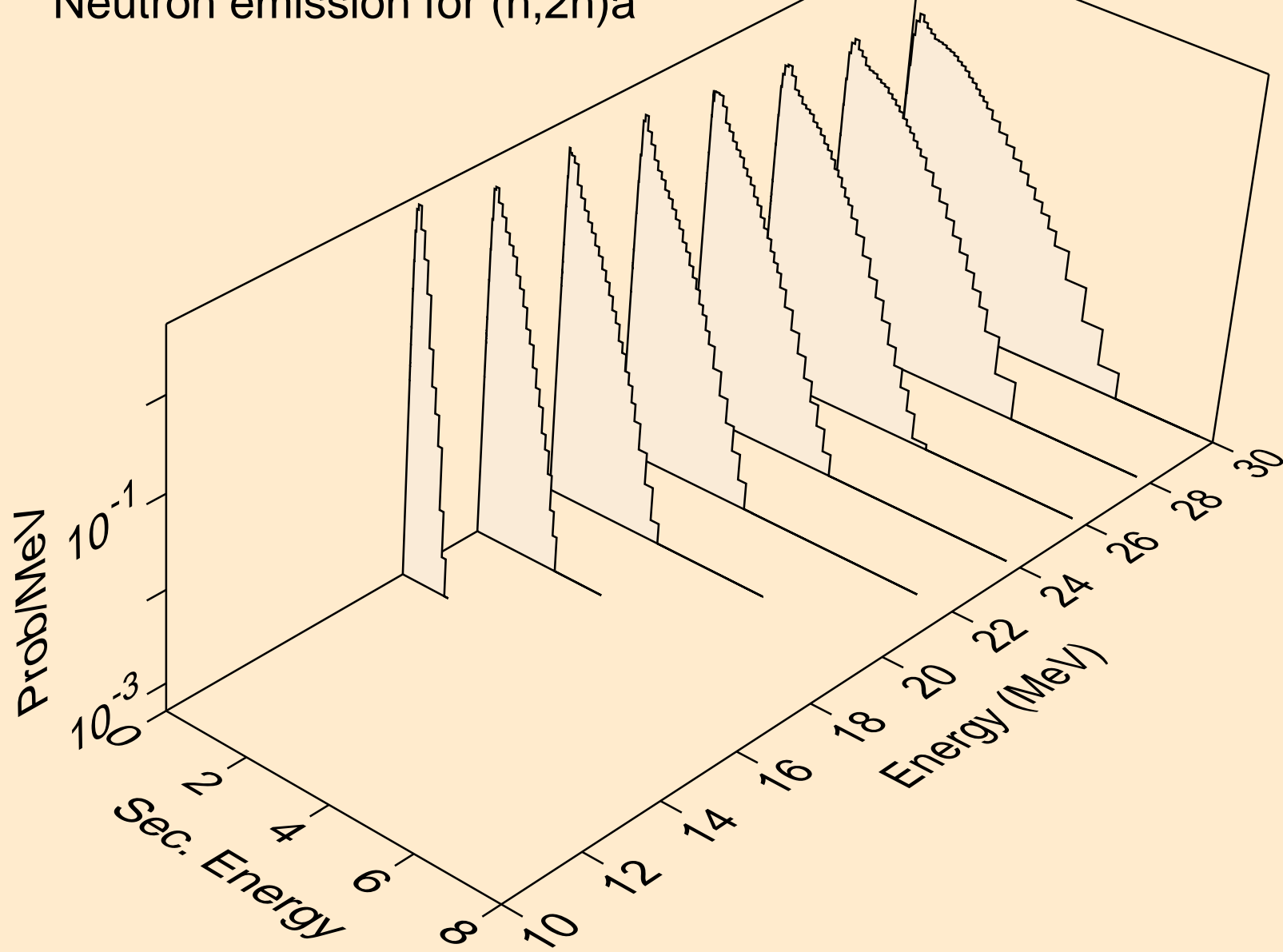
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



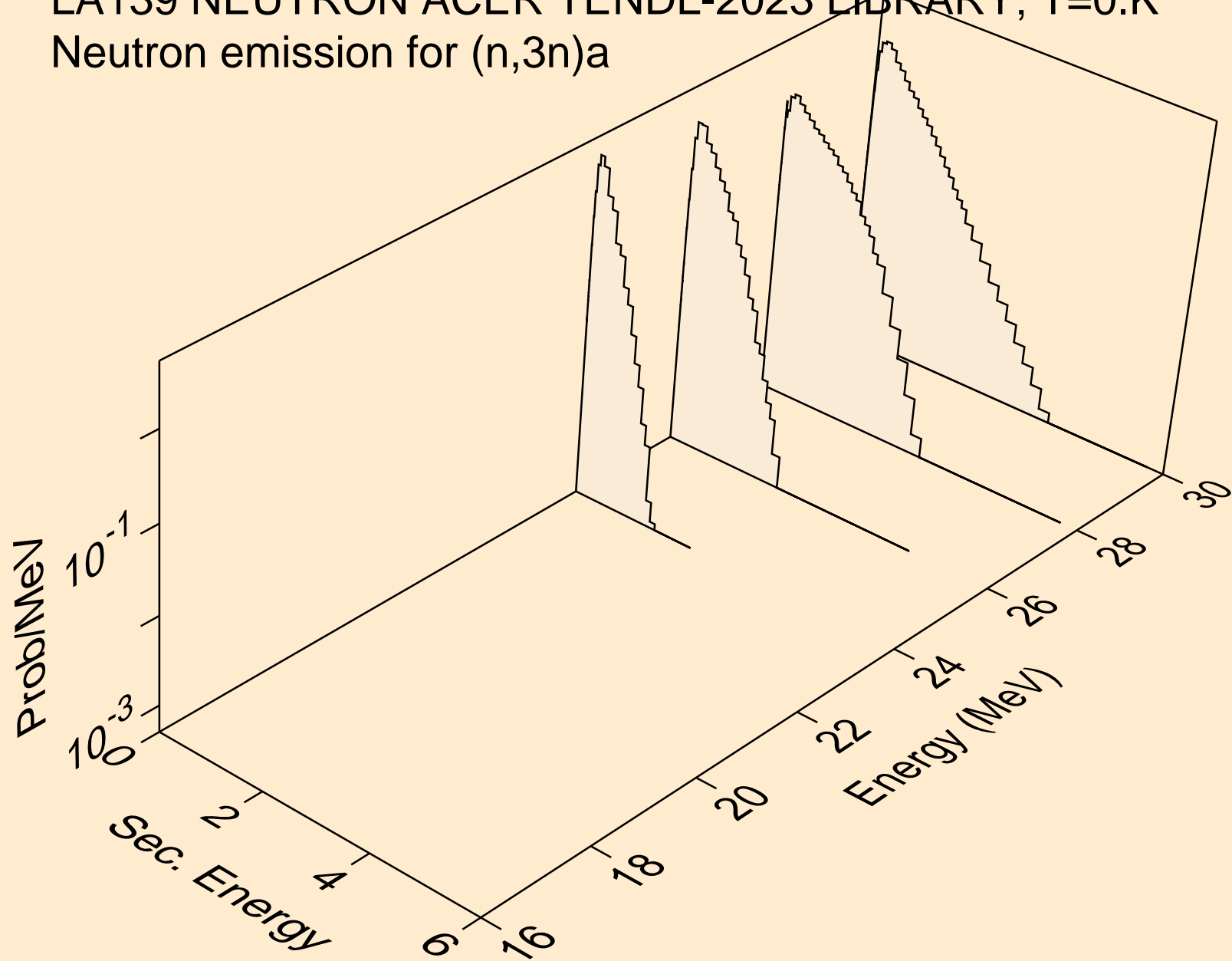
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



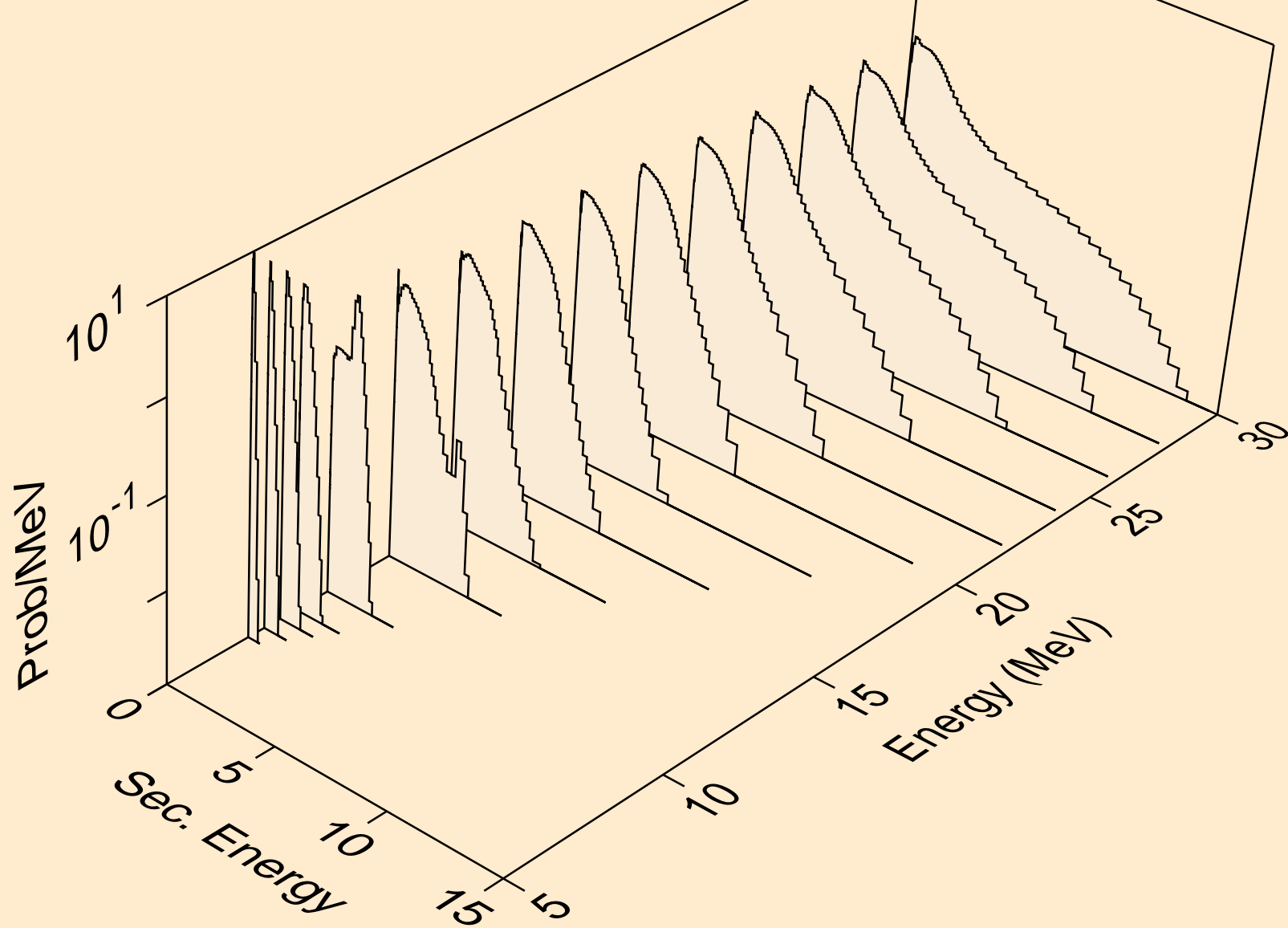
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)<sub>a</sub>



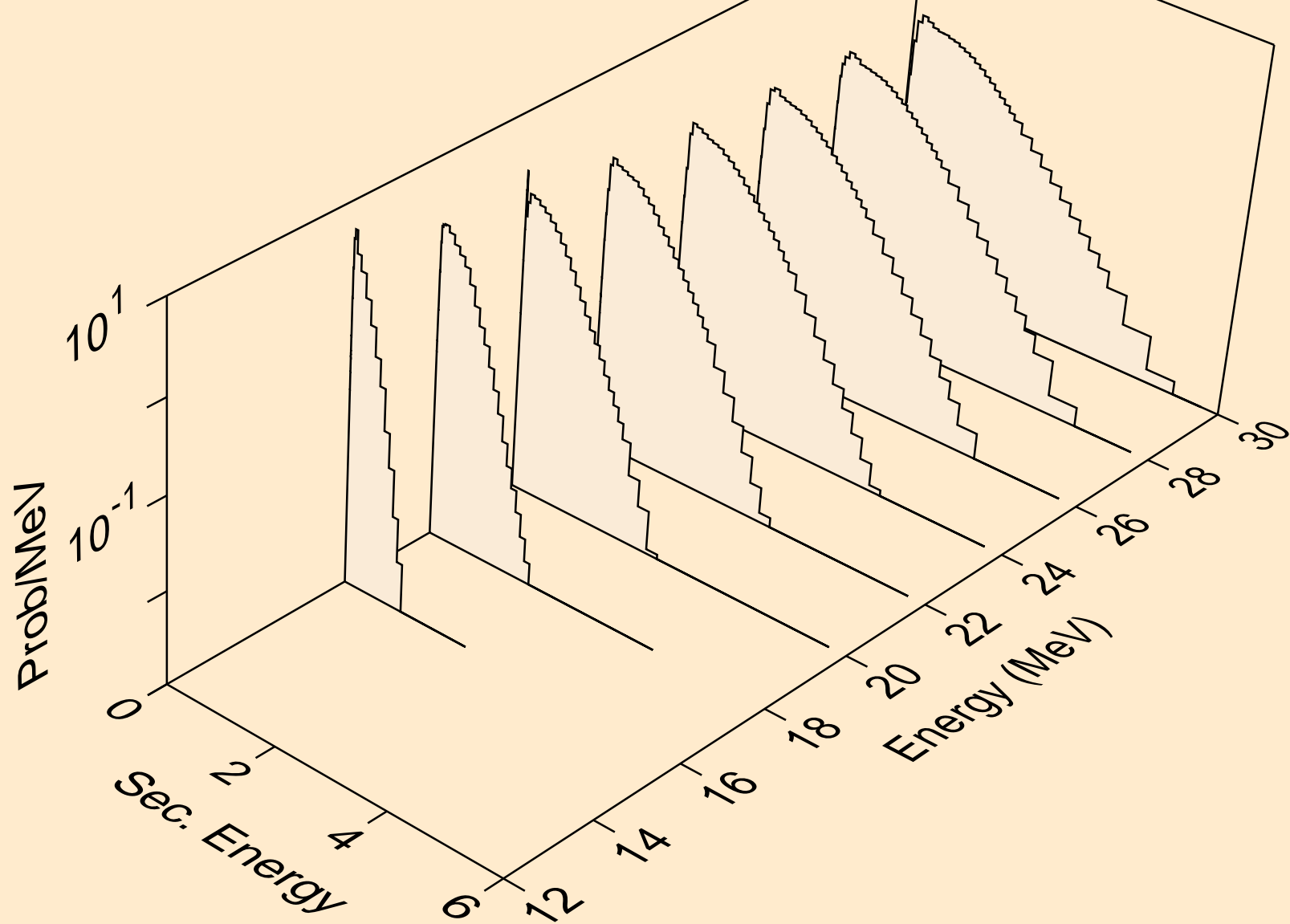
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



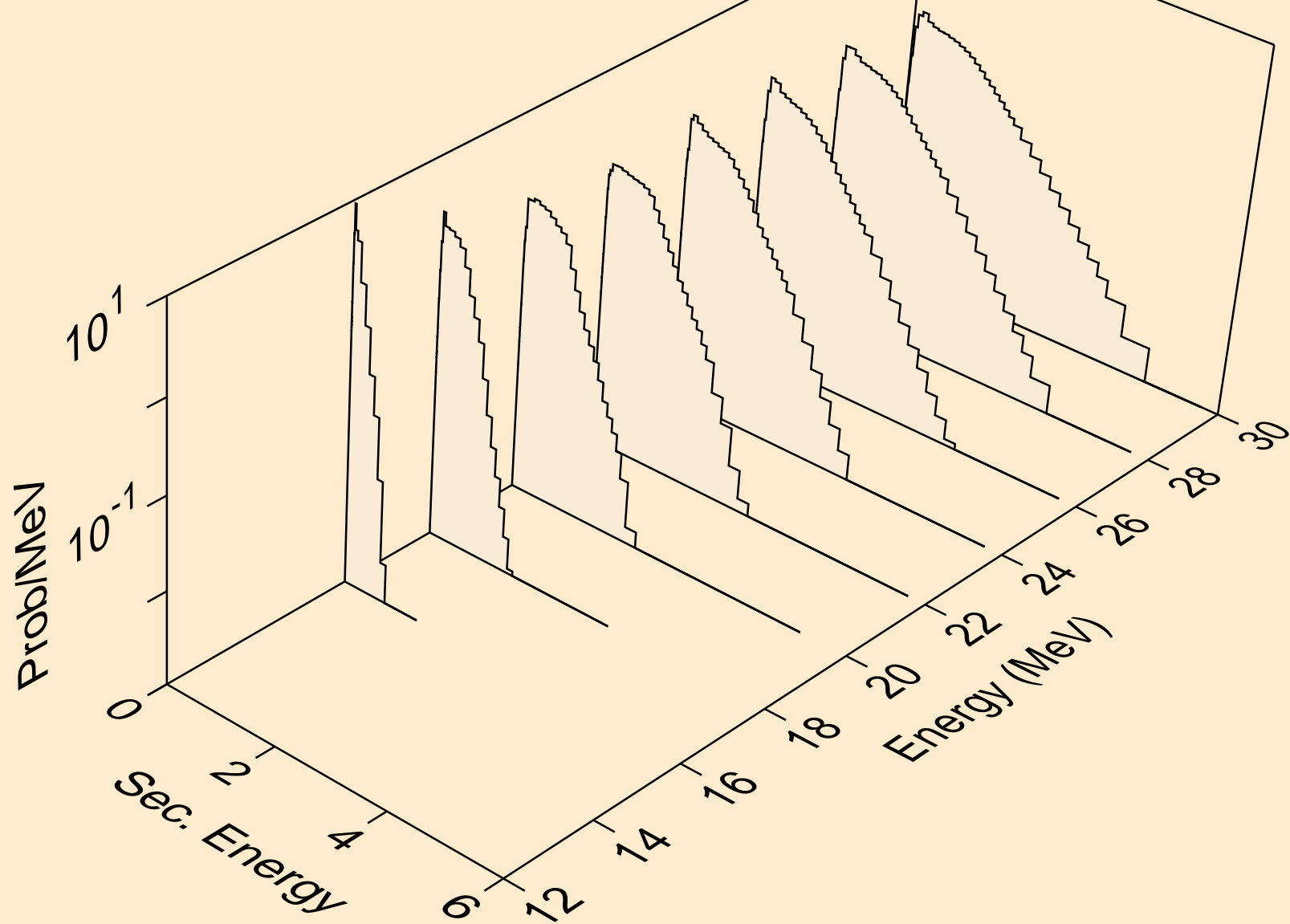
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

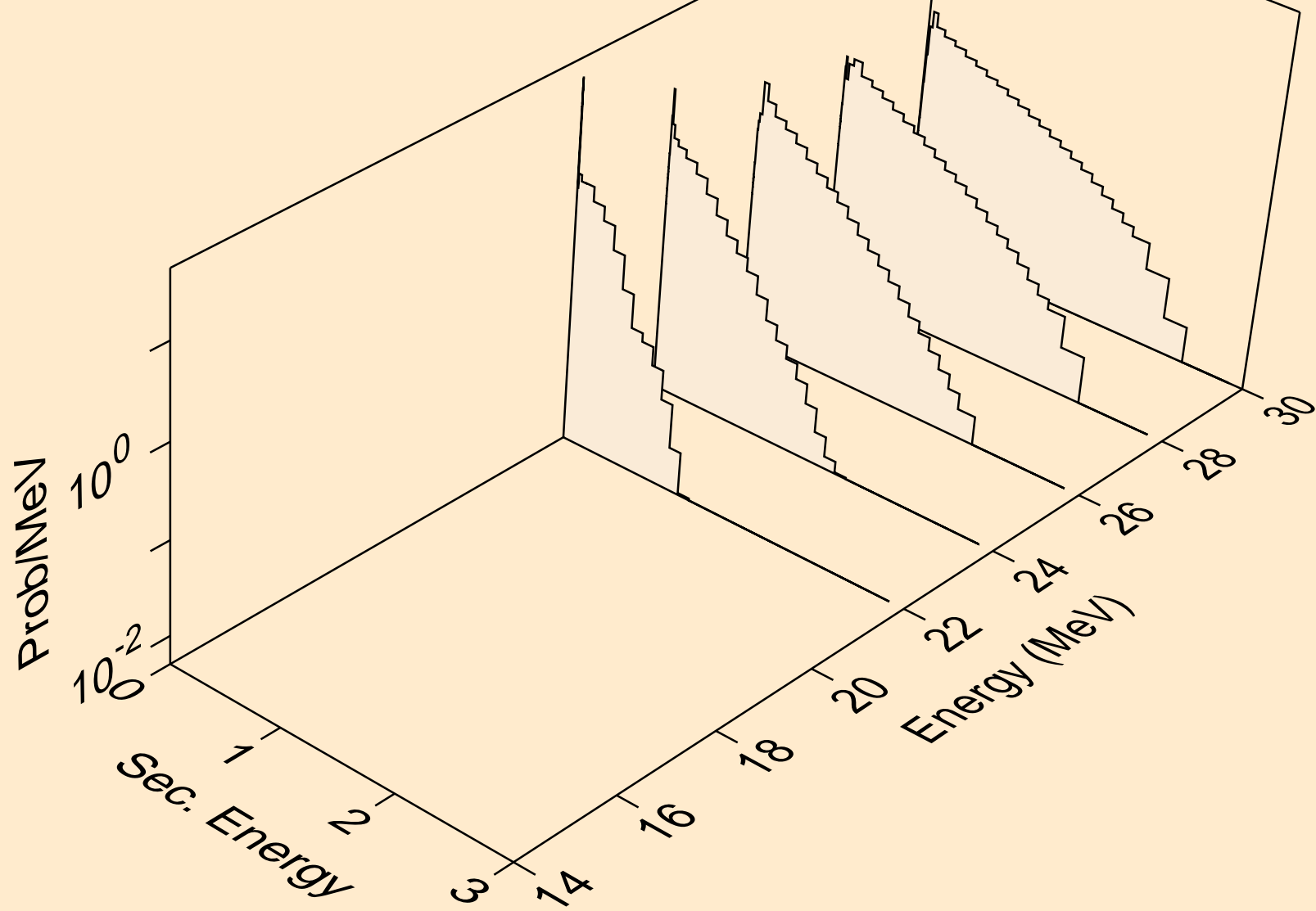


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t

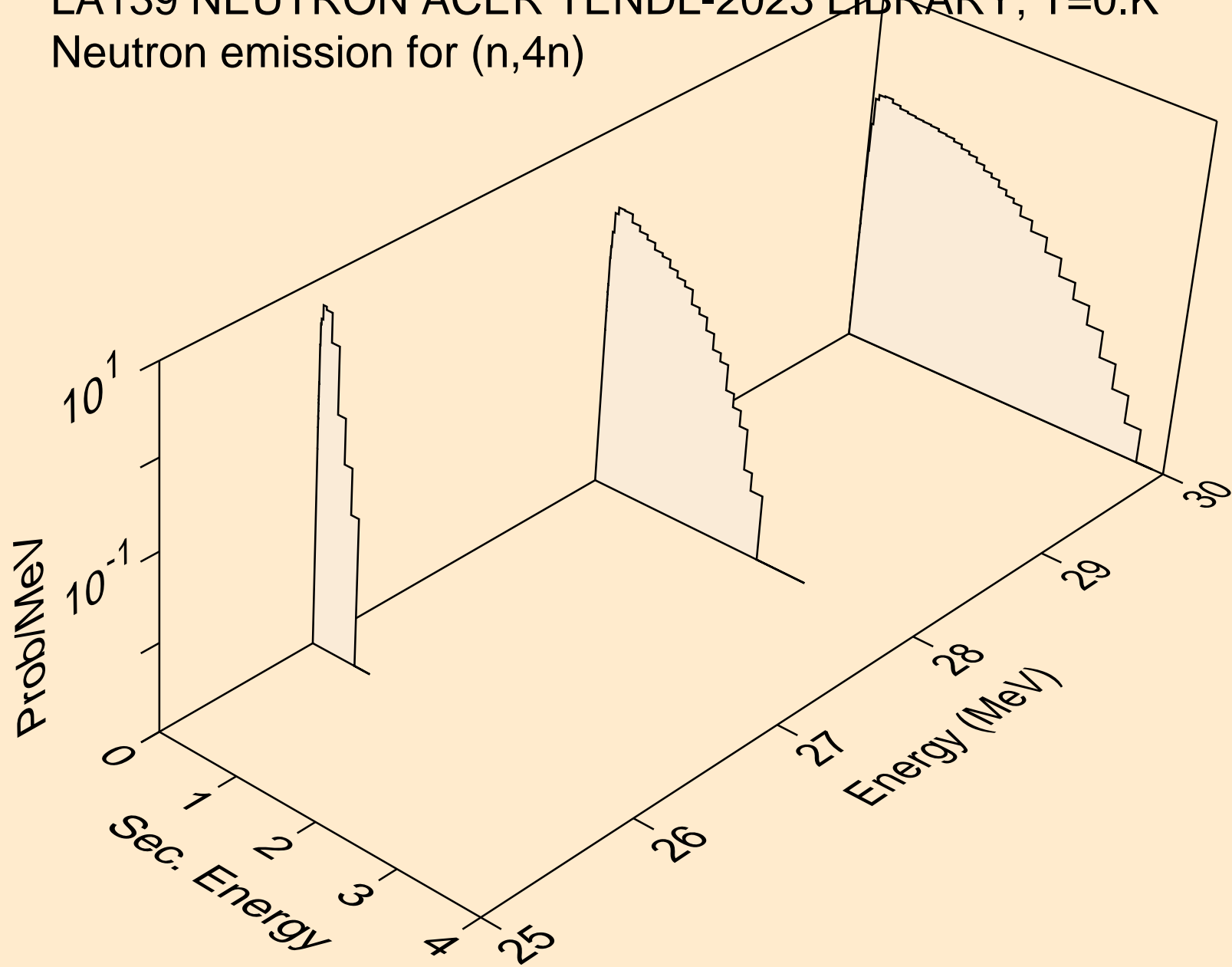




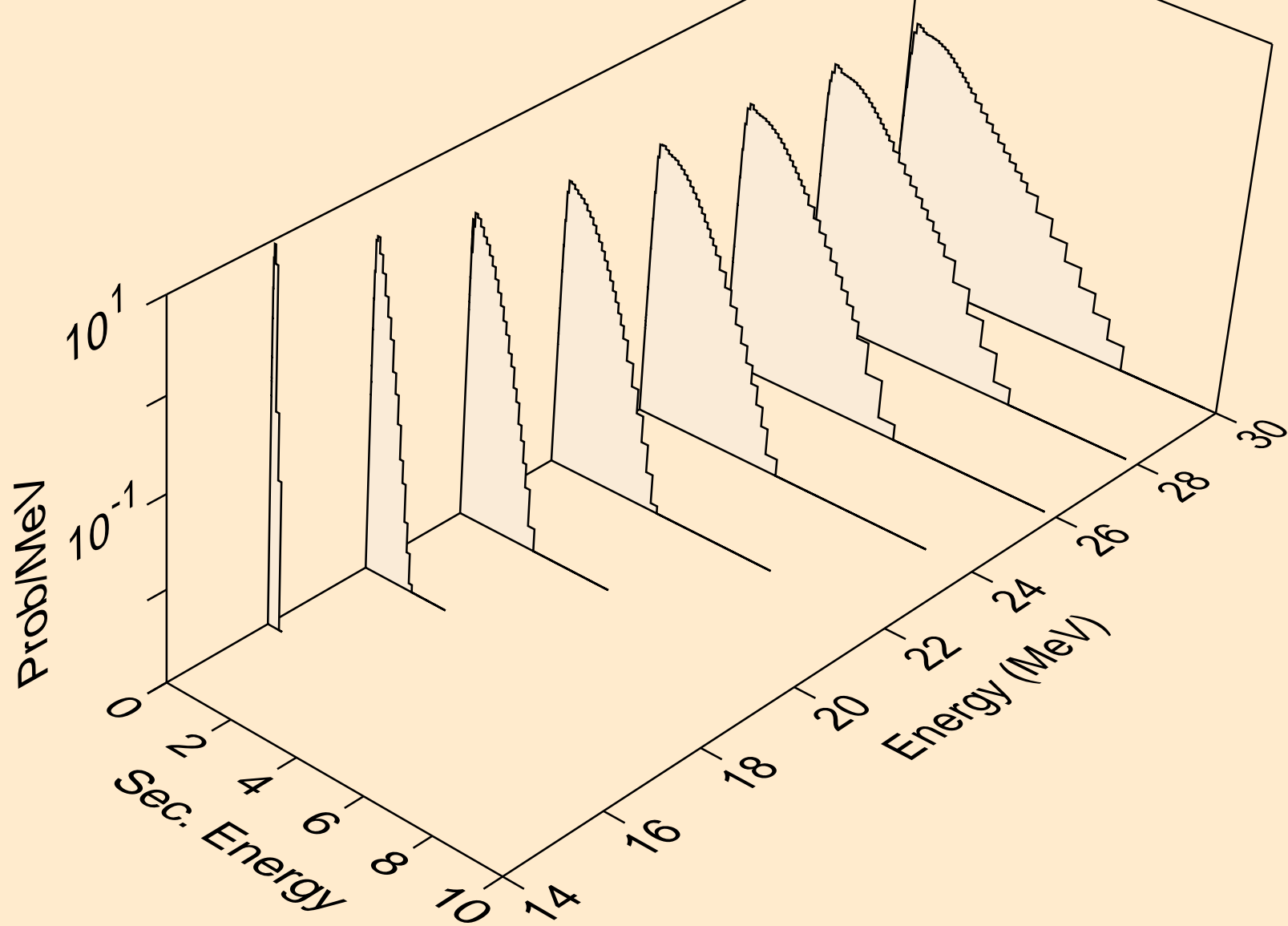
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



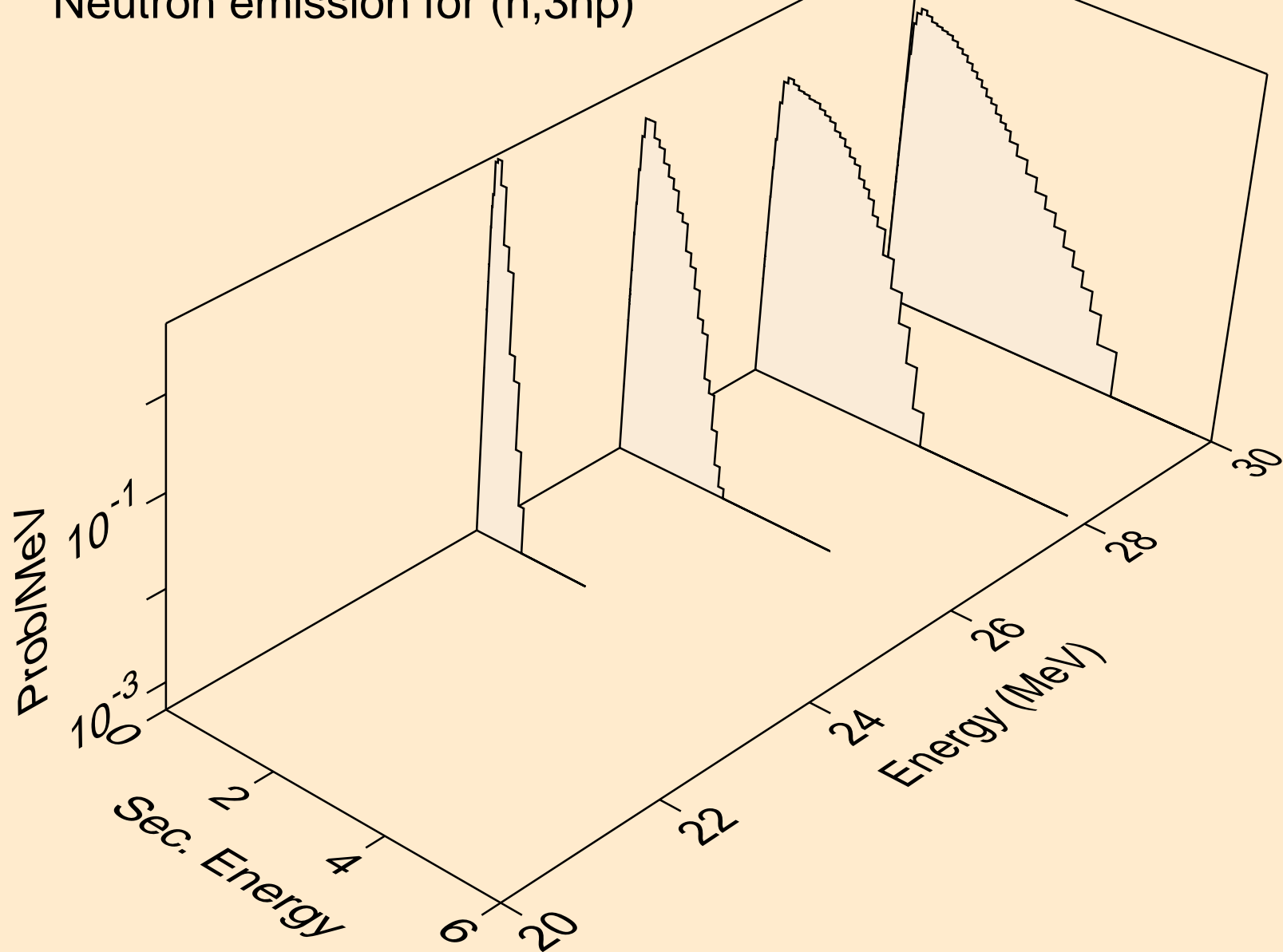
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



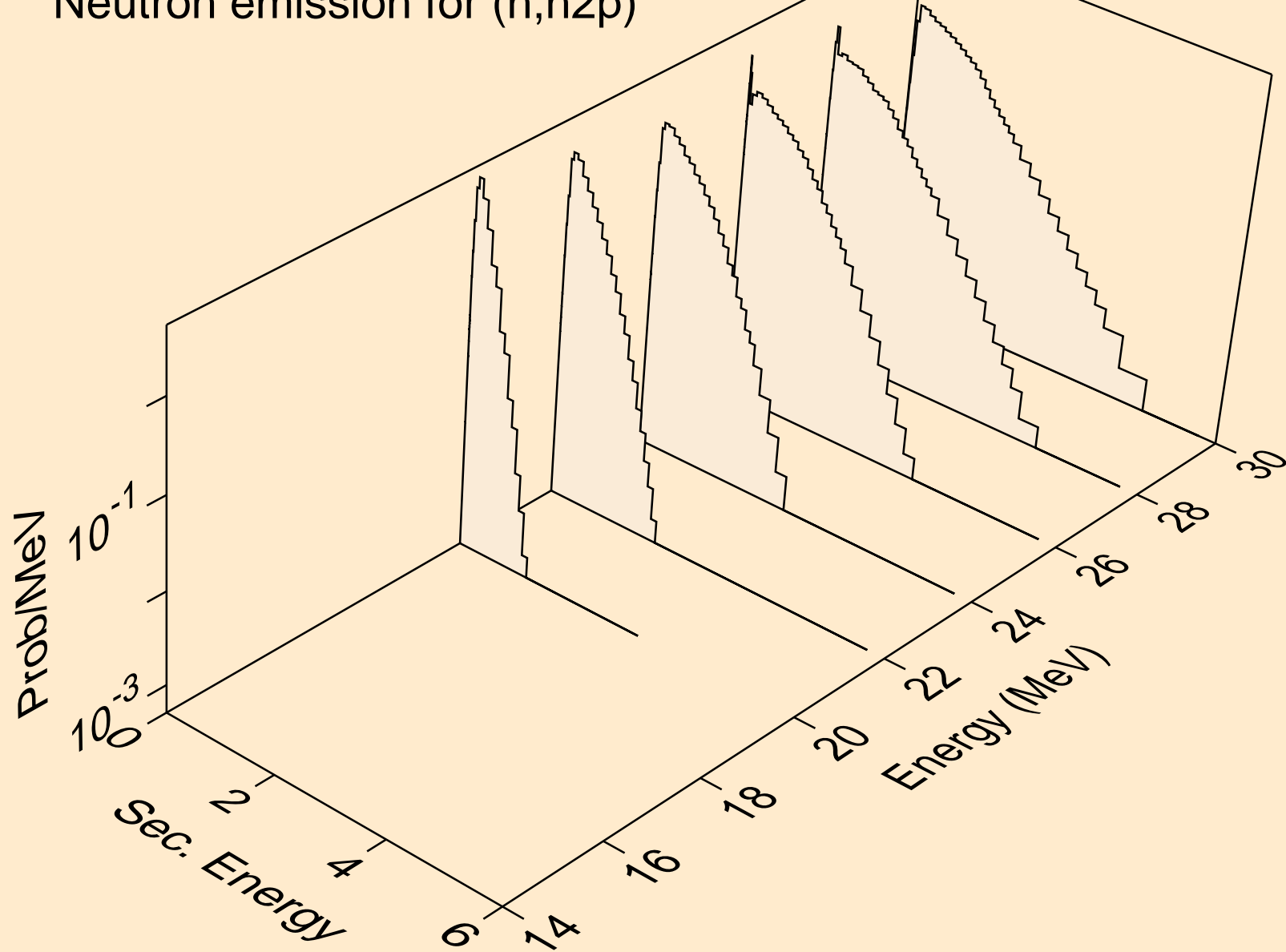
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



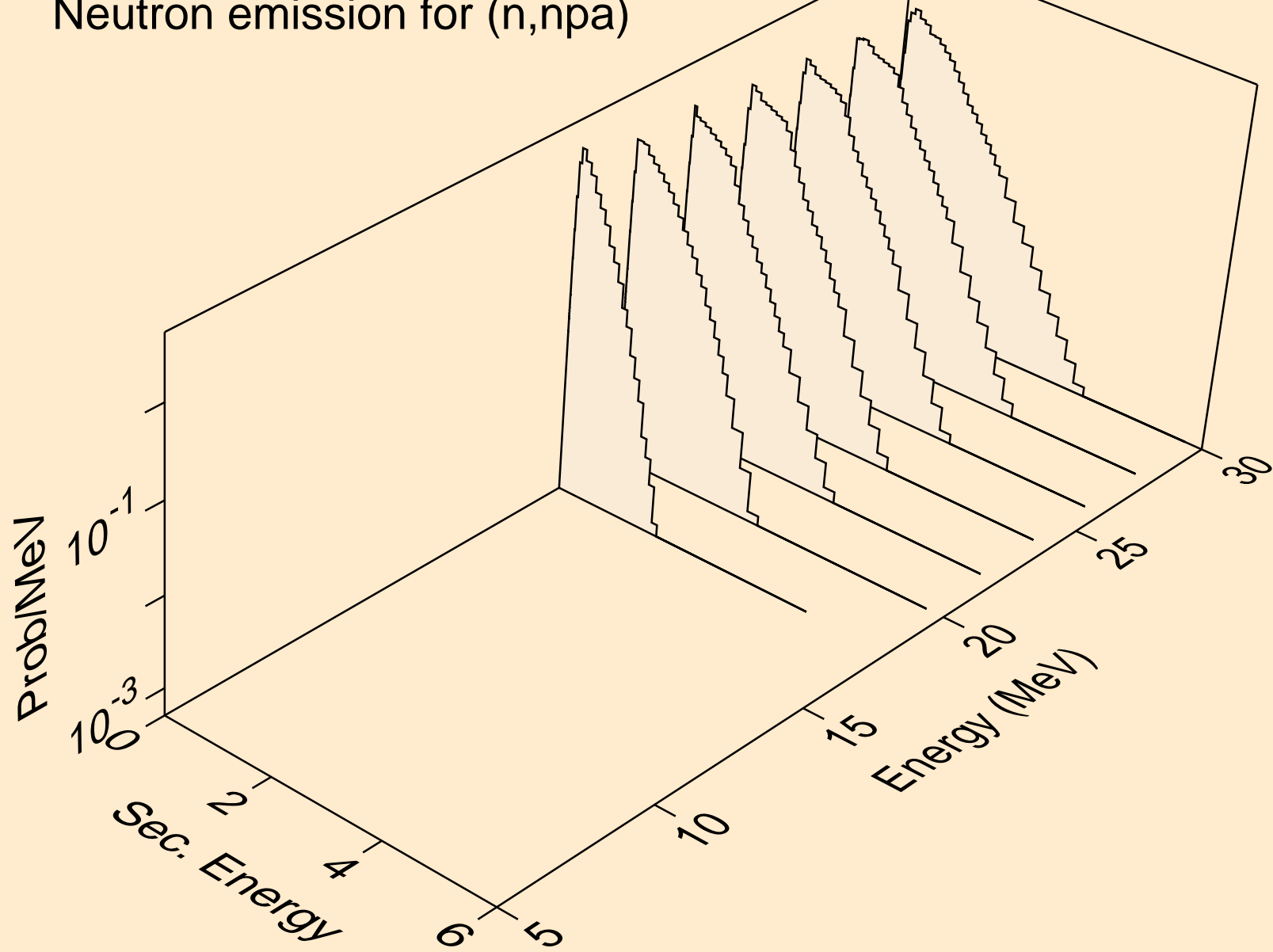
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



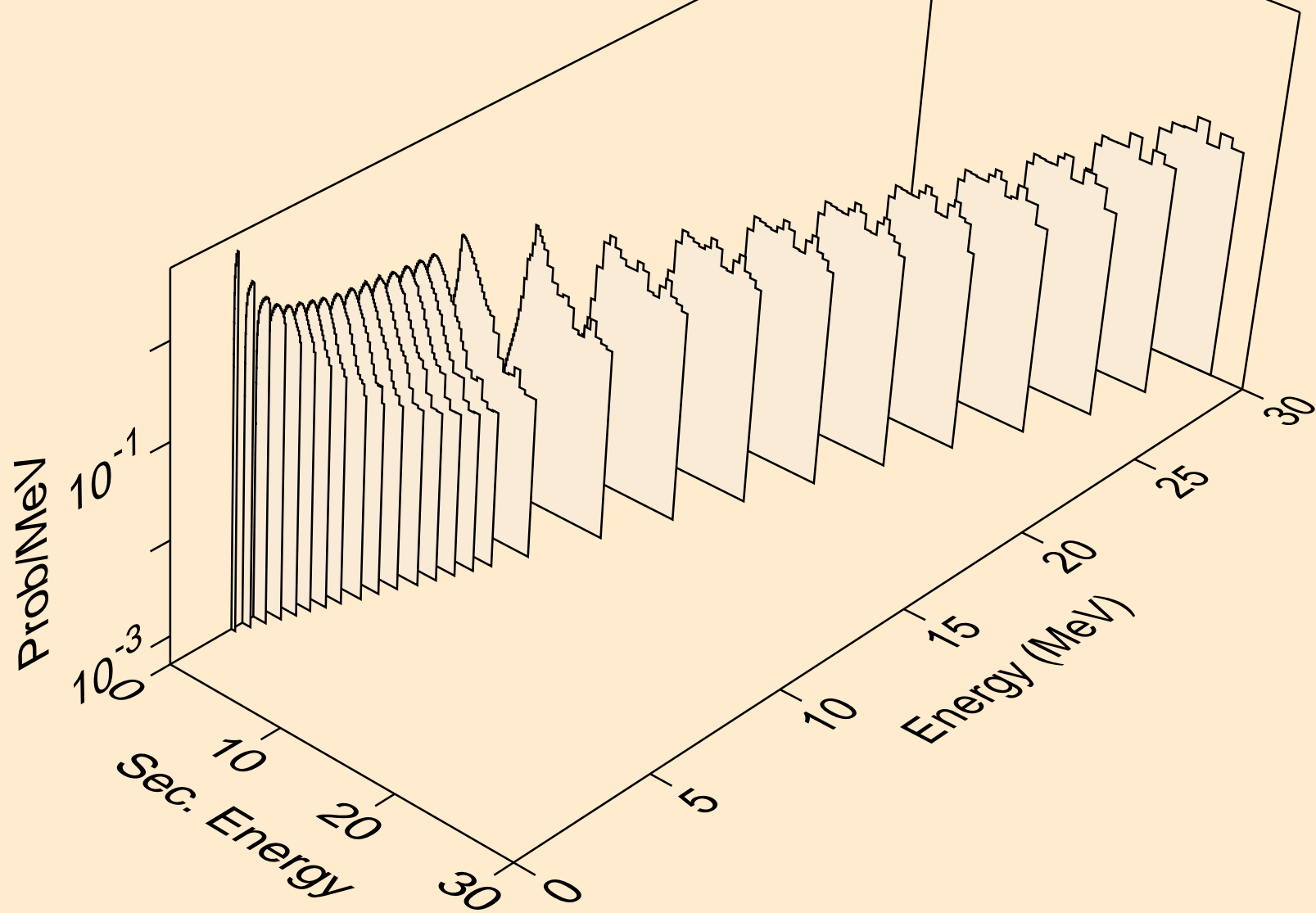
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Neutron emission for (n,n2p)



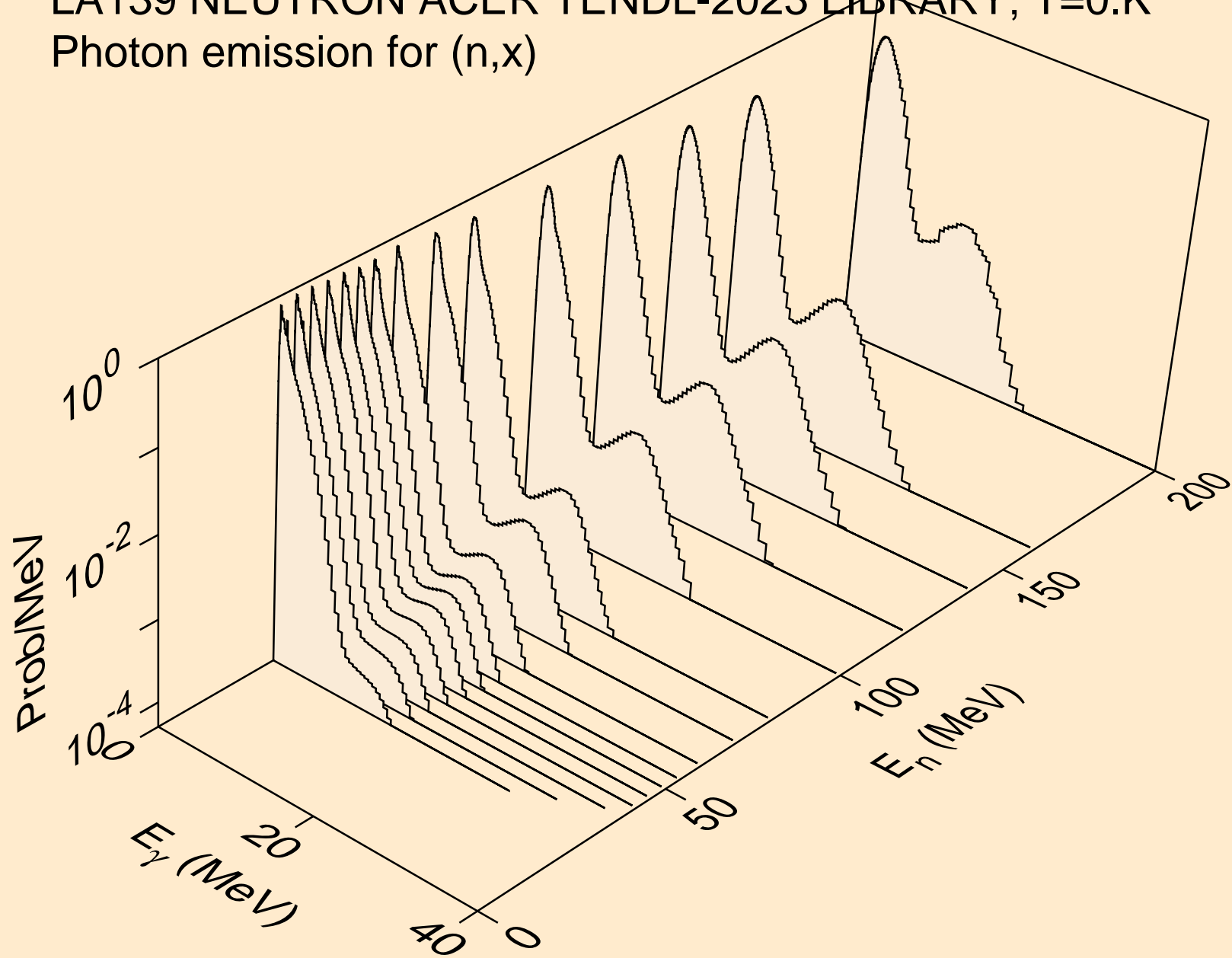
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

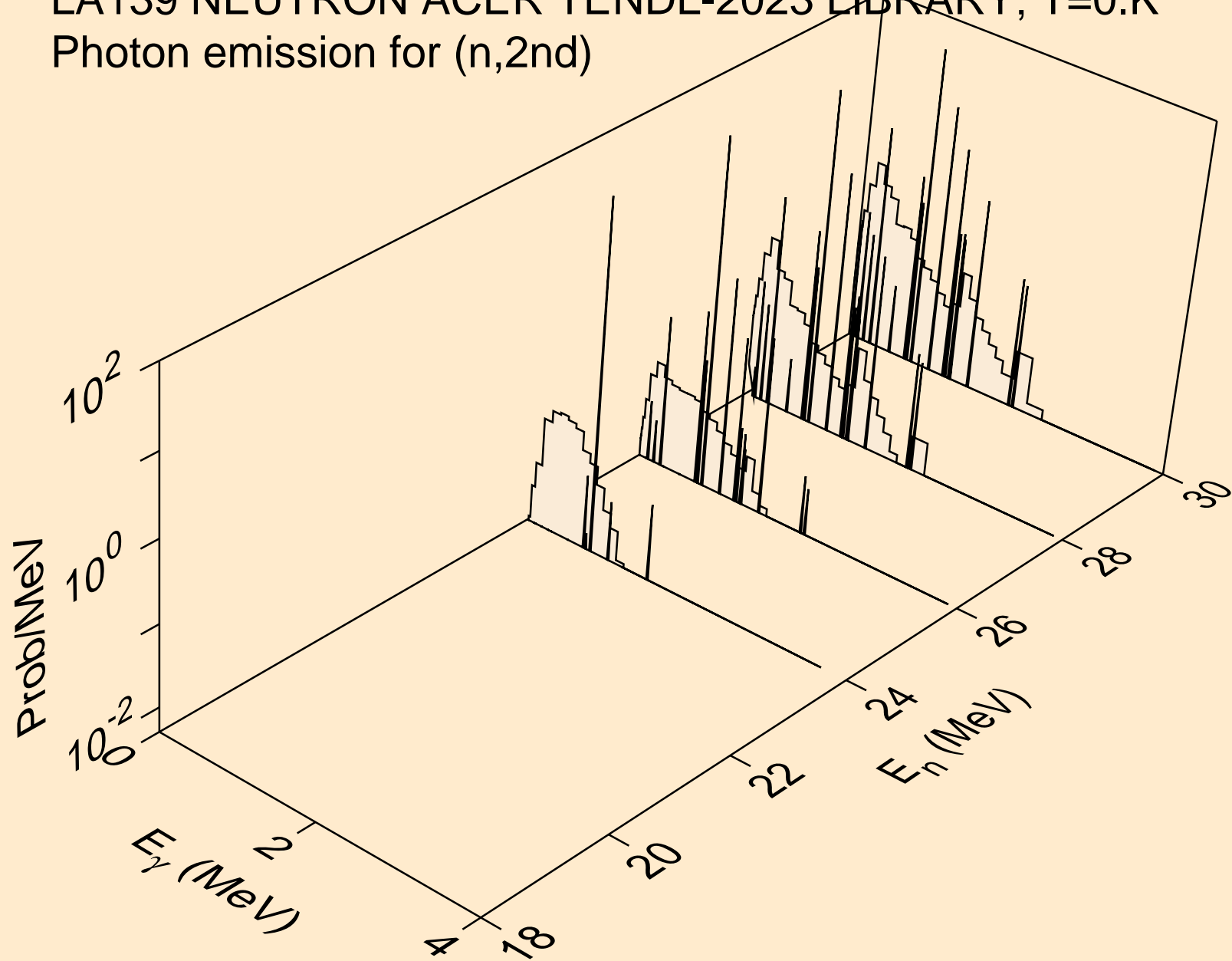


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

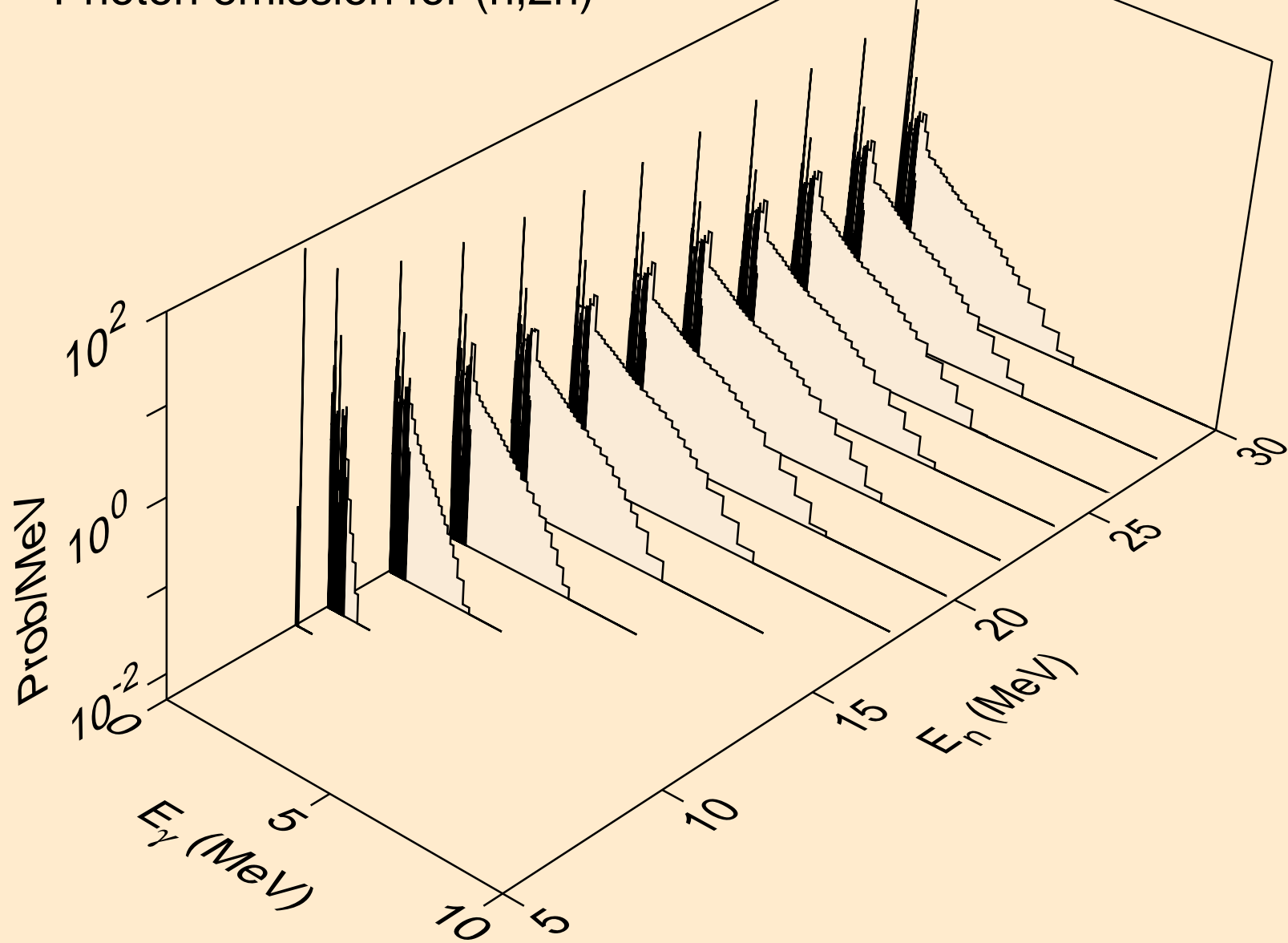




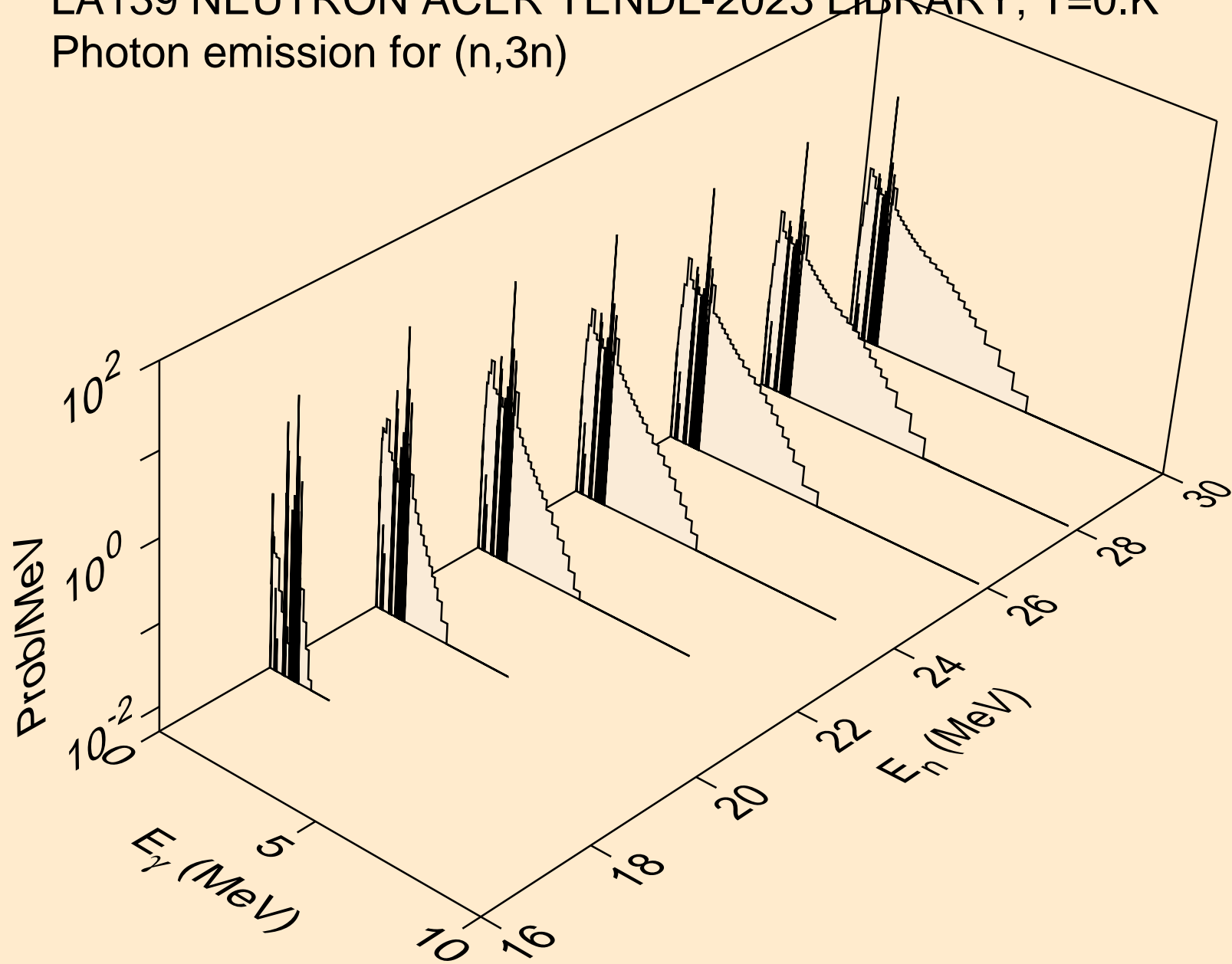
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



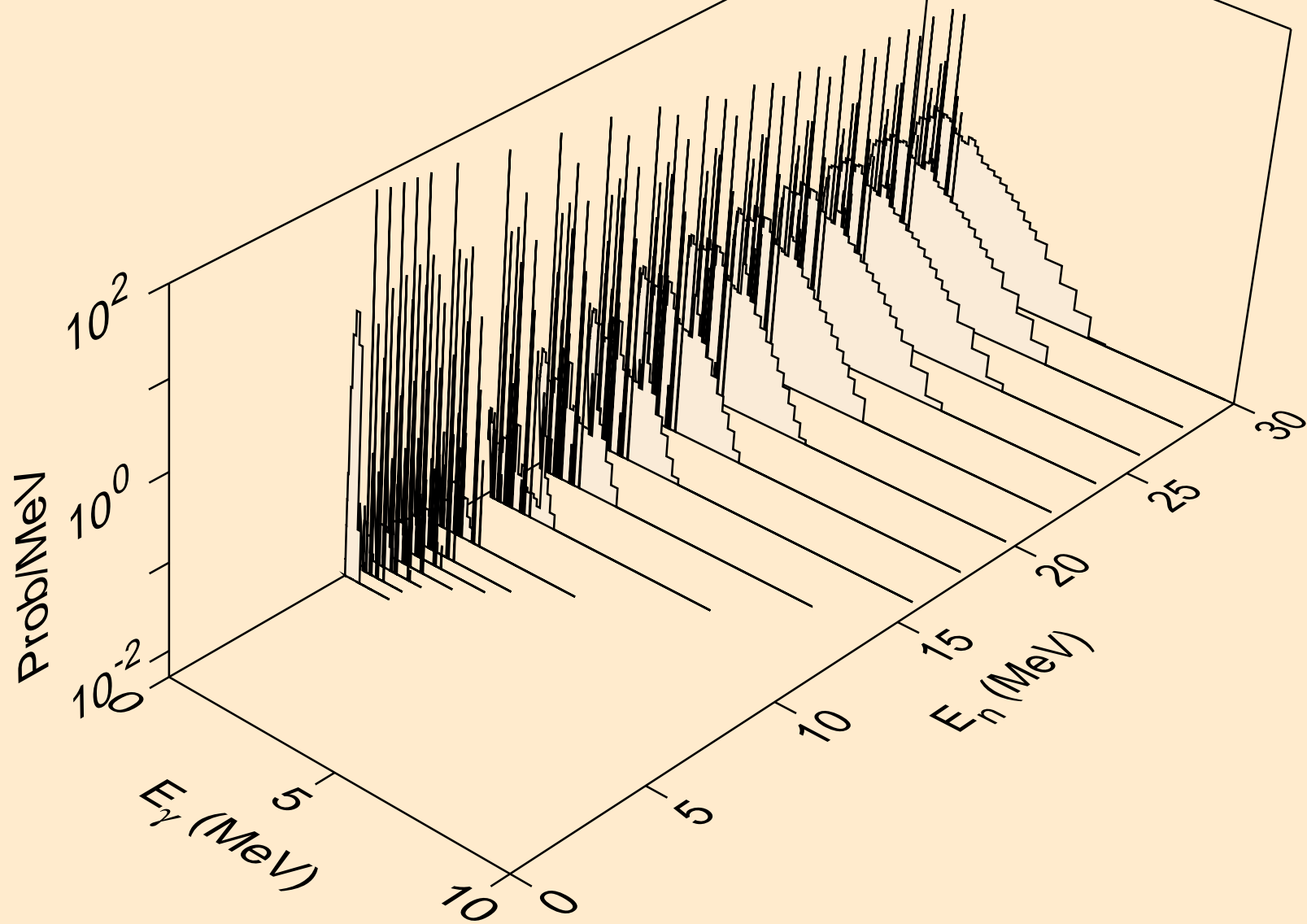
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Photon emission for (n,2n)



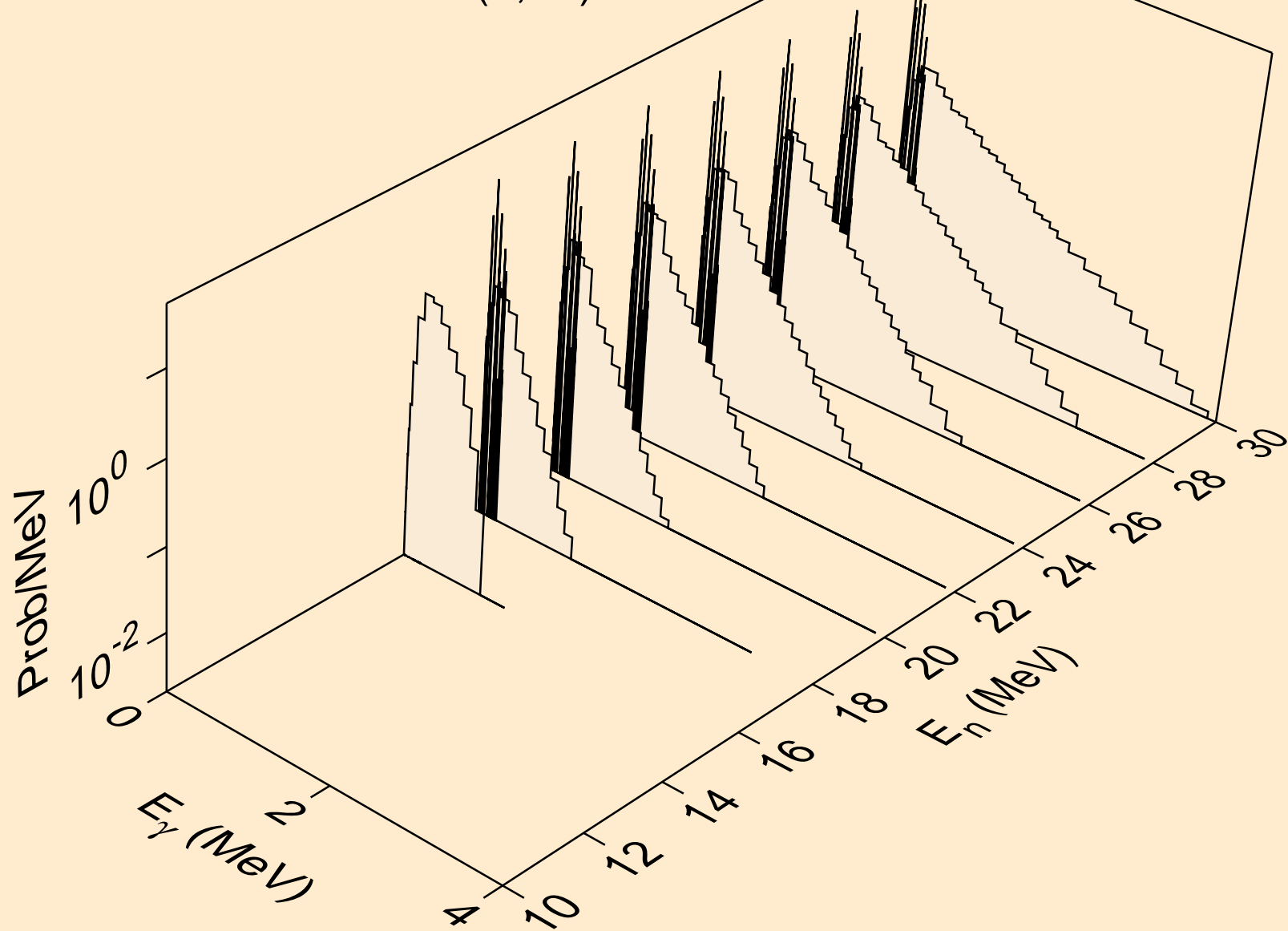
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Photon emission for (n,3n)



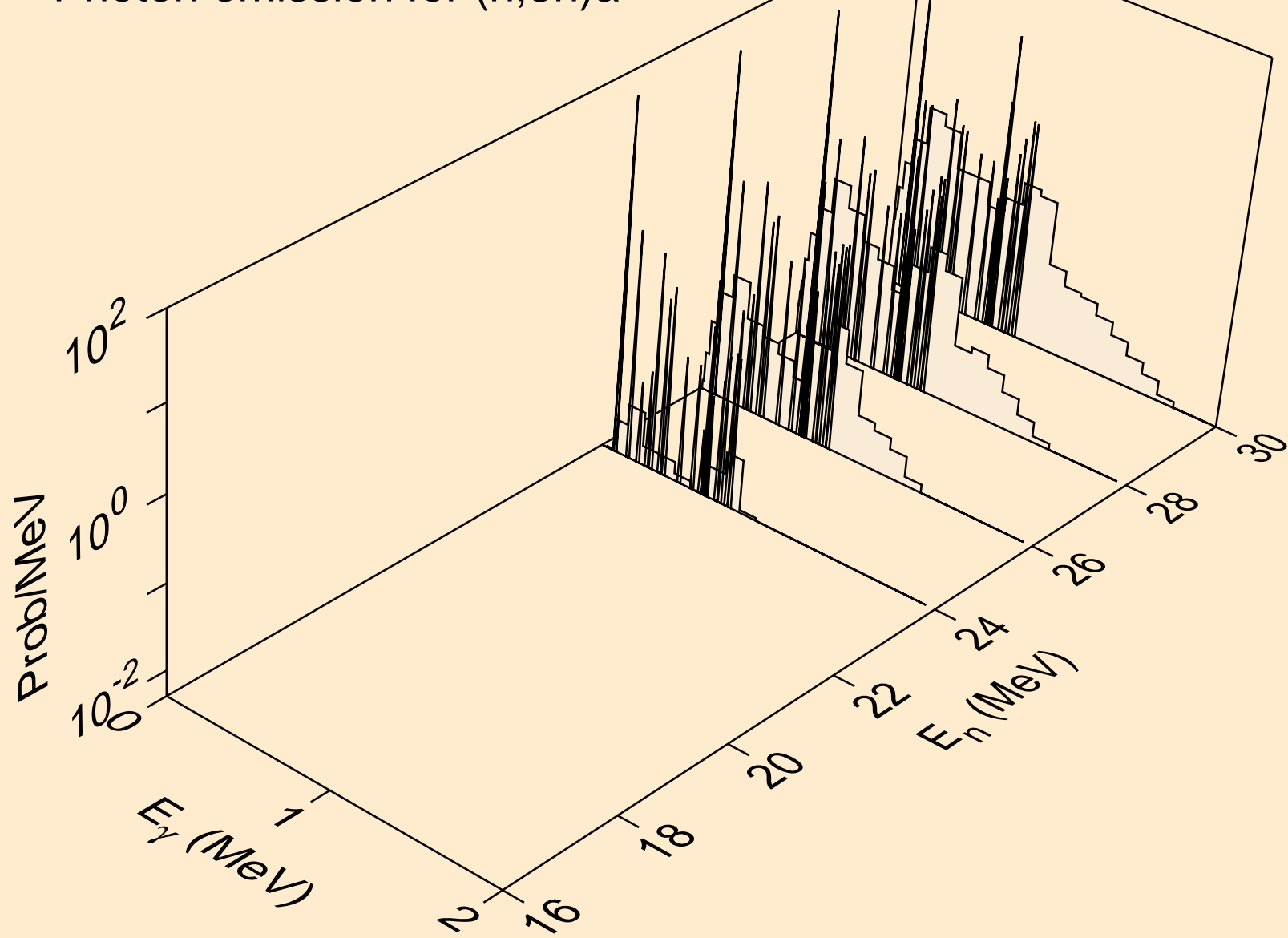
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



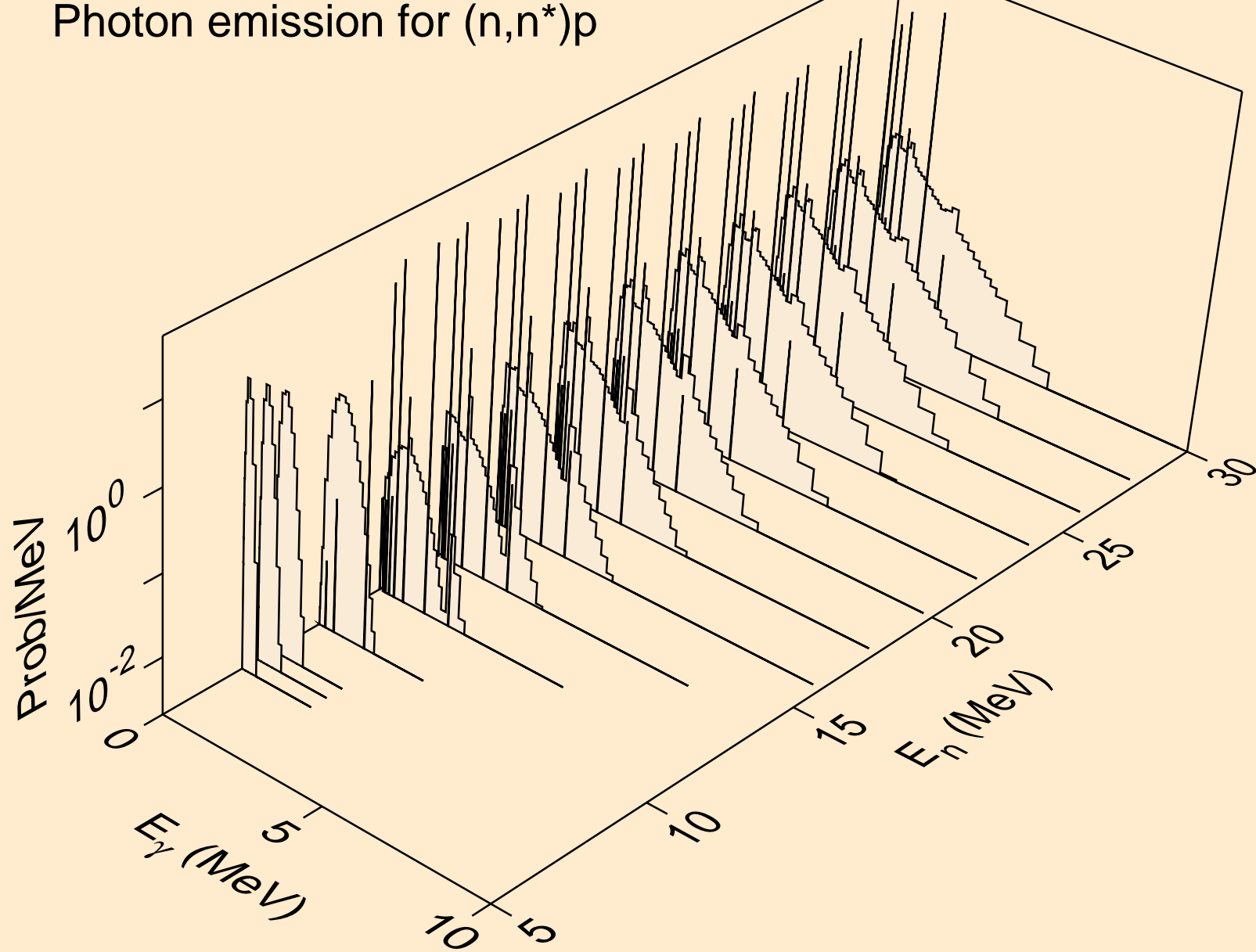
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Photon emission for (n,2n)a



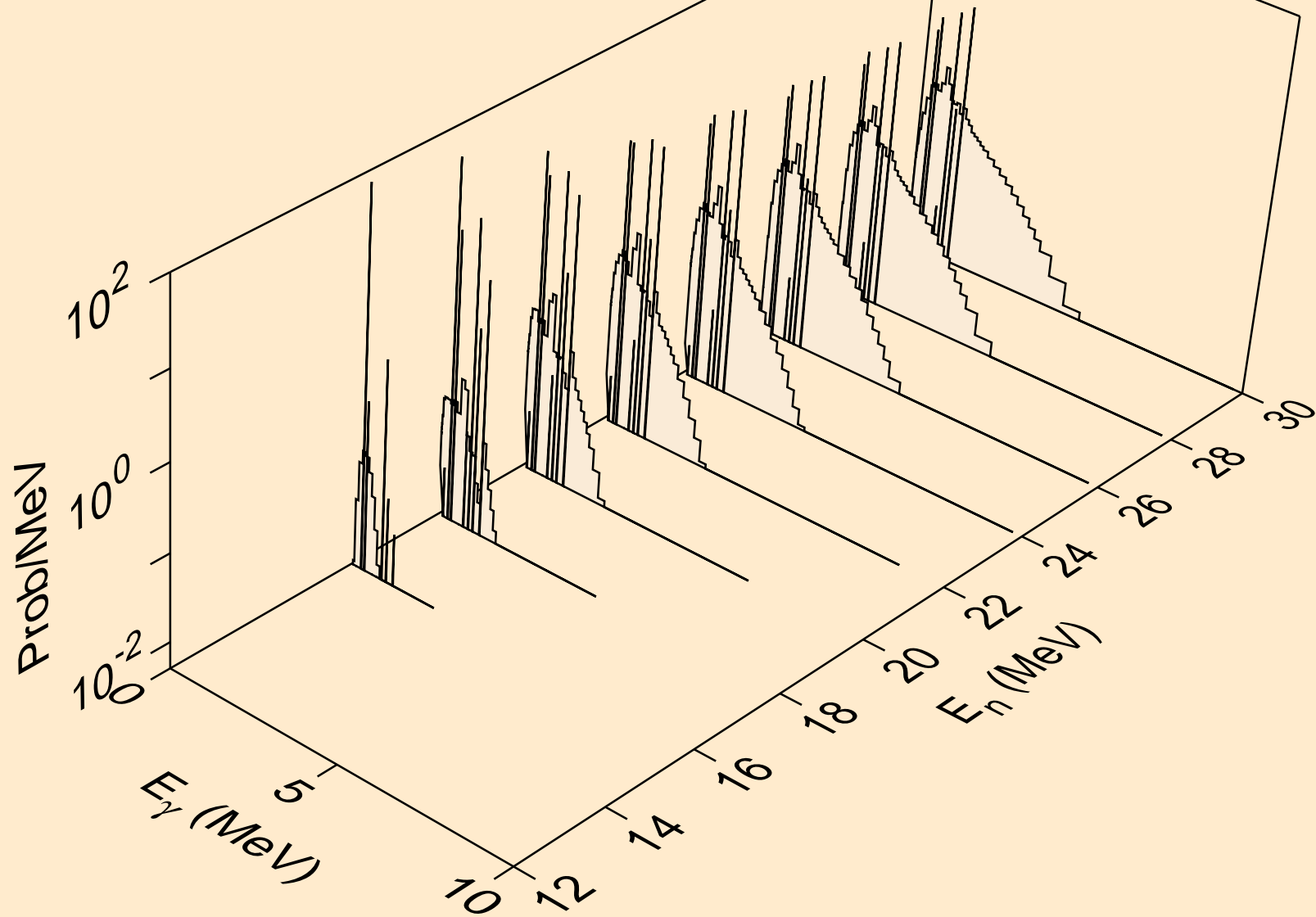
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

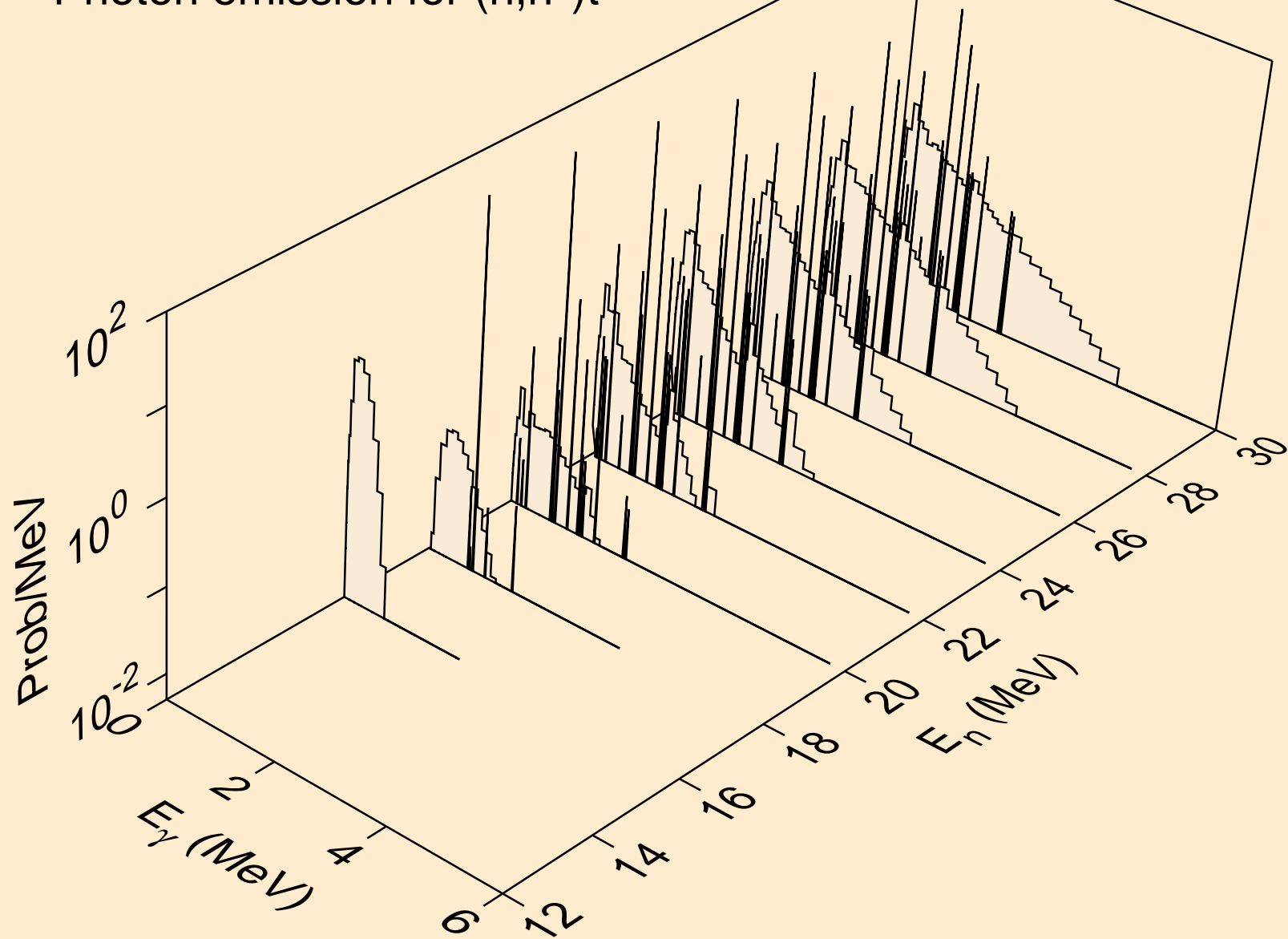


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

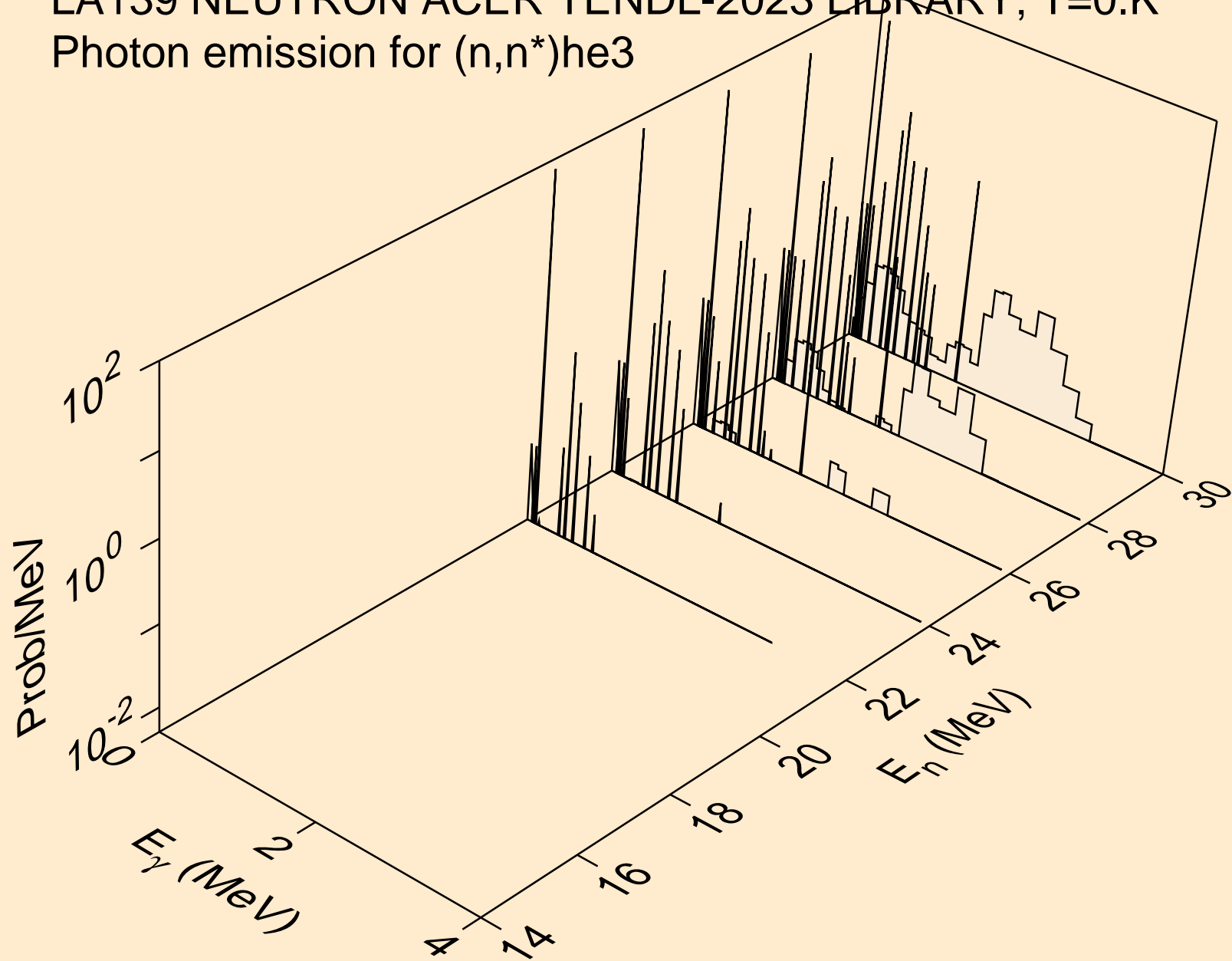




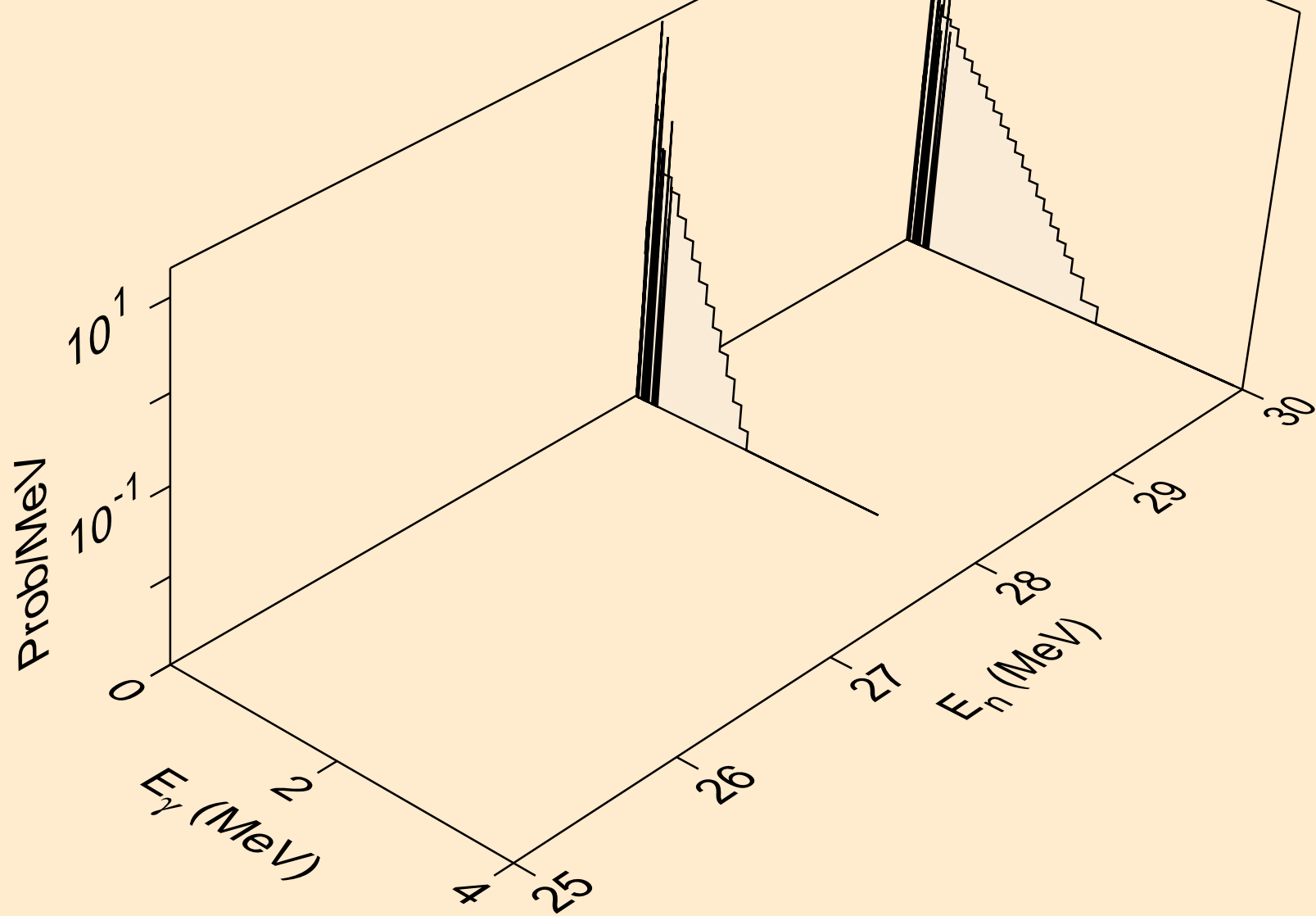
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



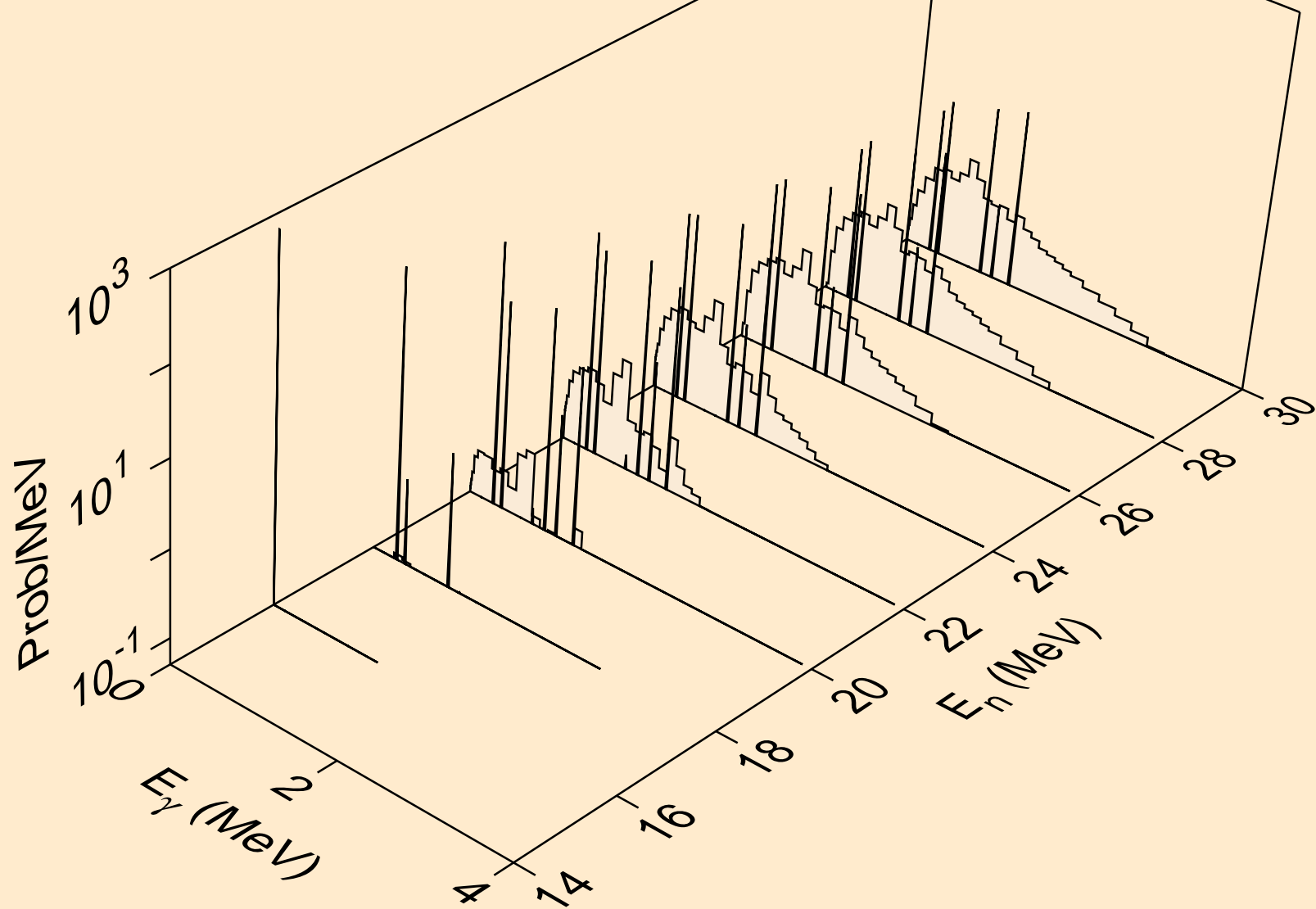
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



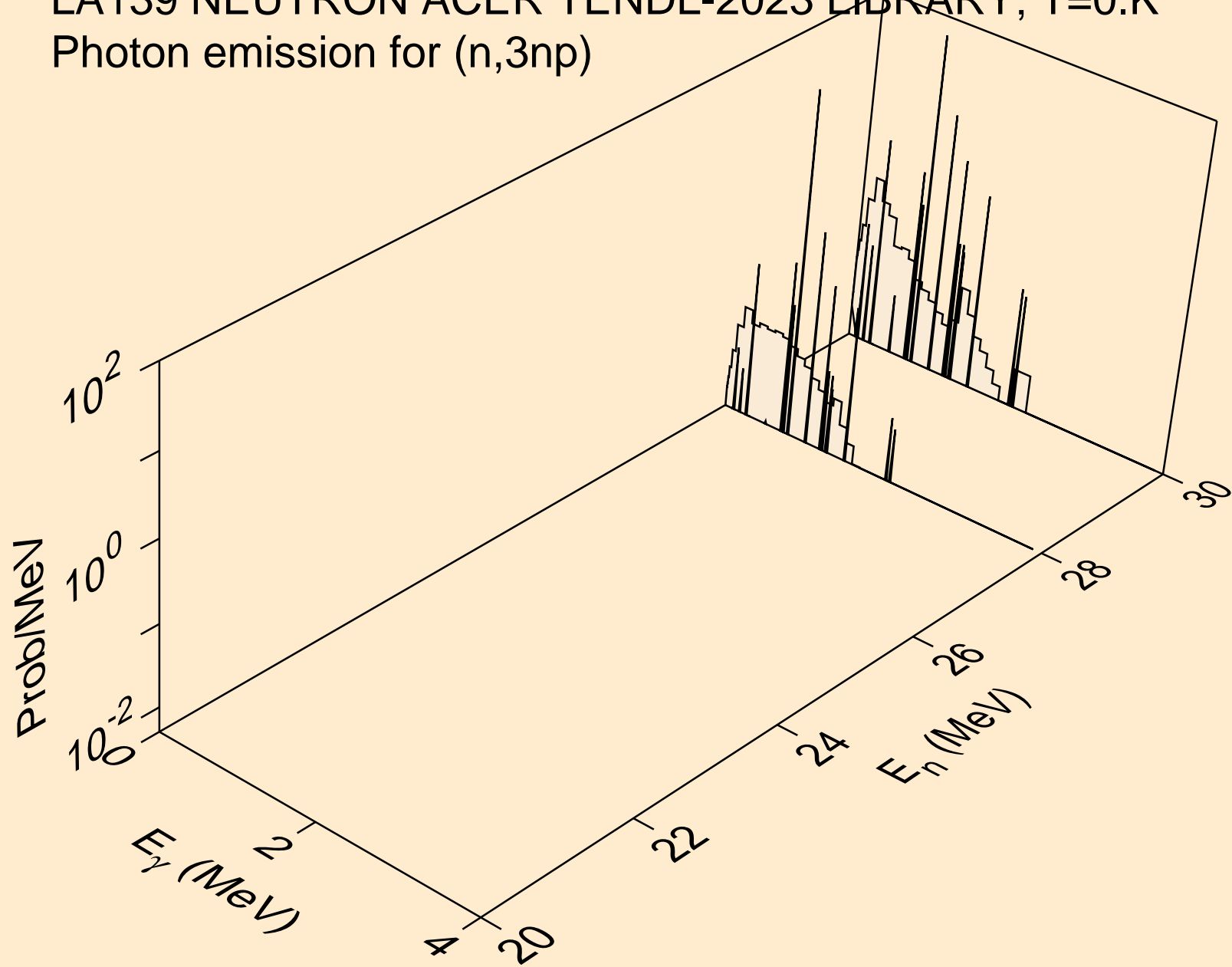
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Photon emission for (n,4n)



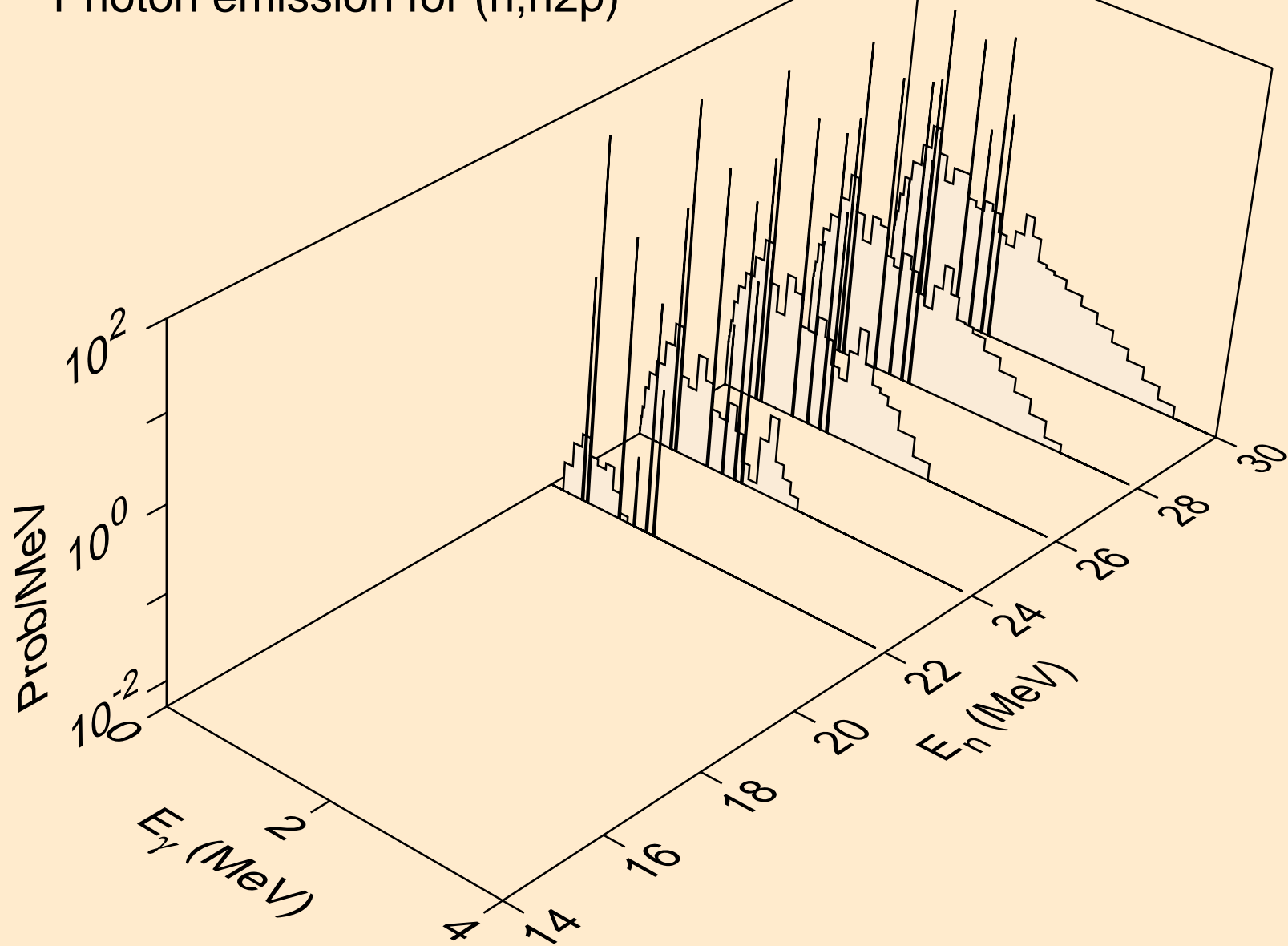
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Photon emission for (n,2np)



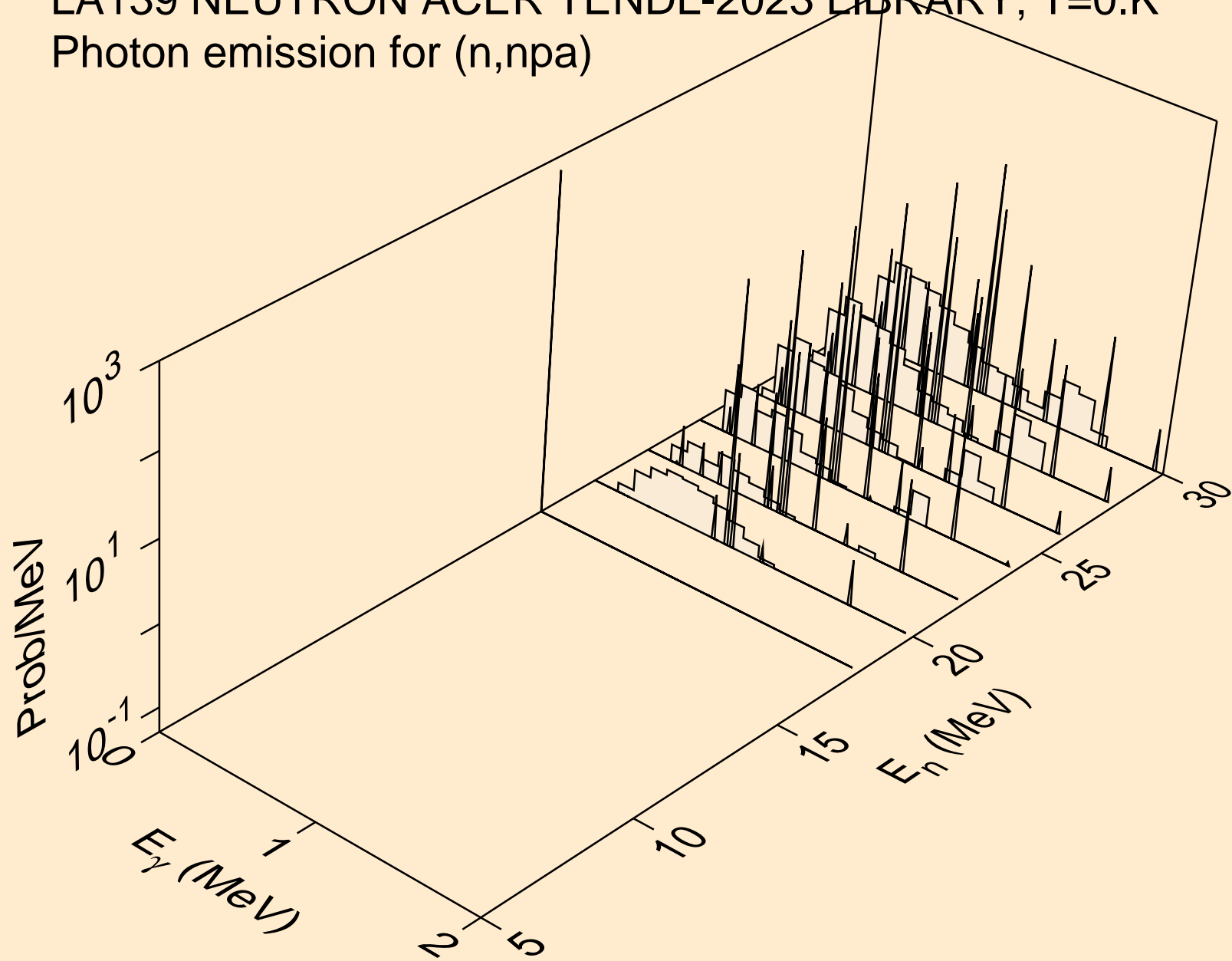
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Photon emission for (n,3np)



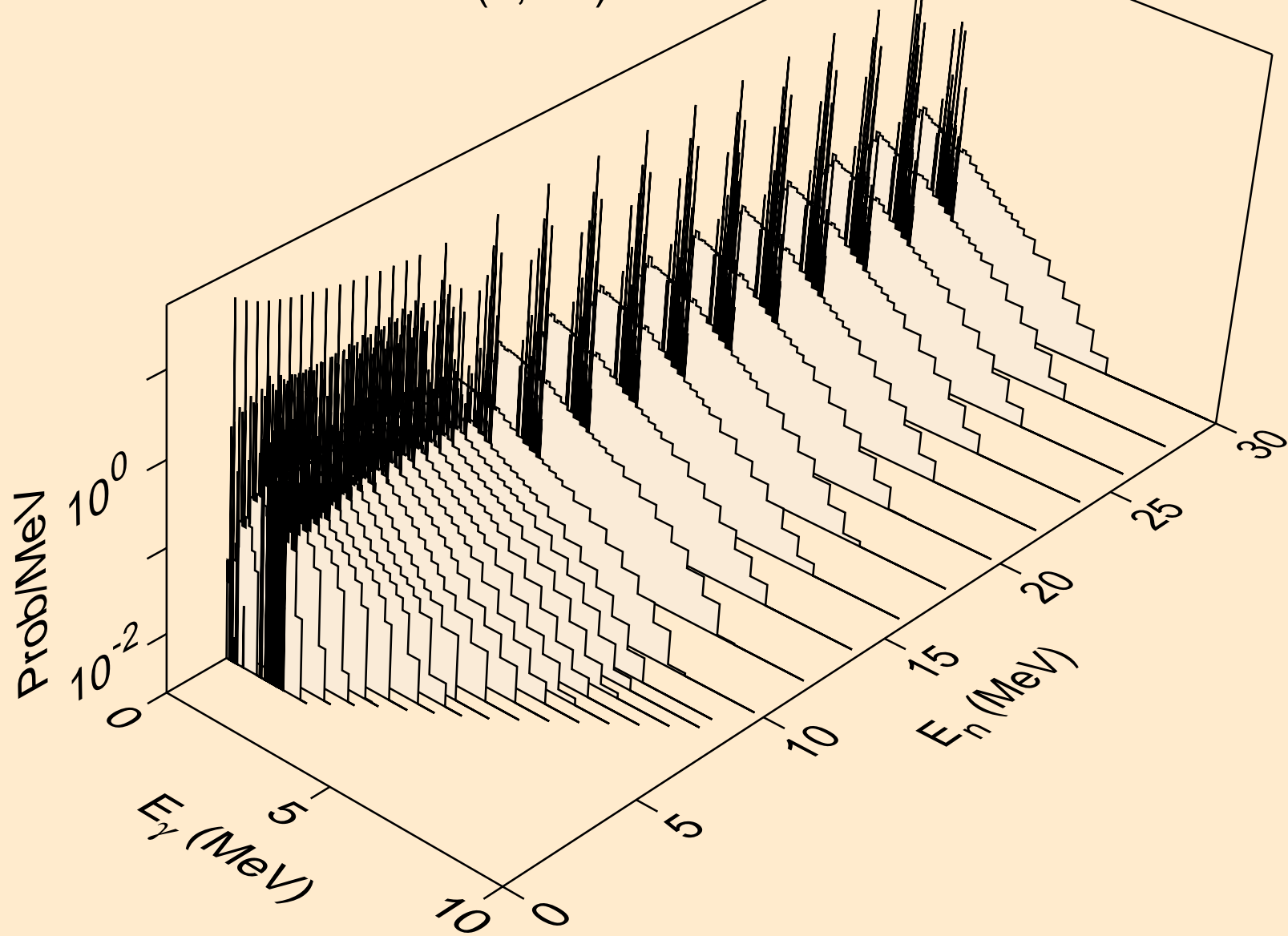
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

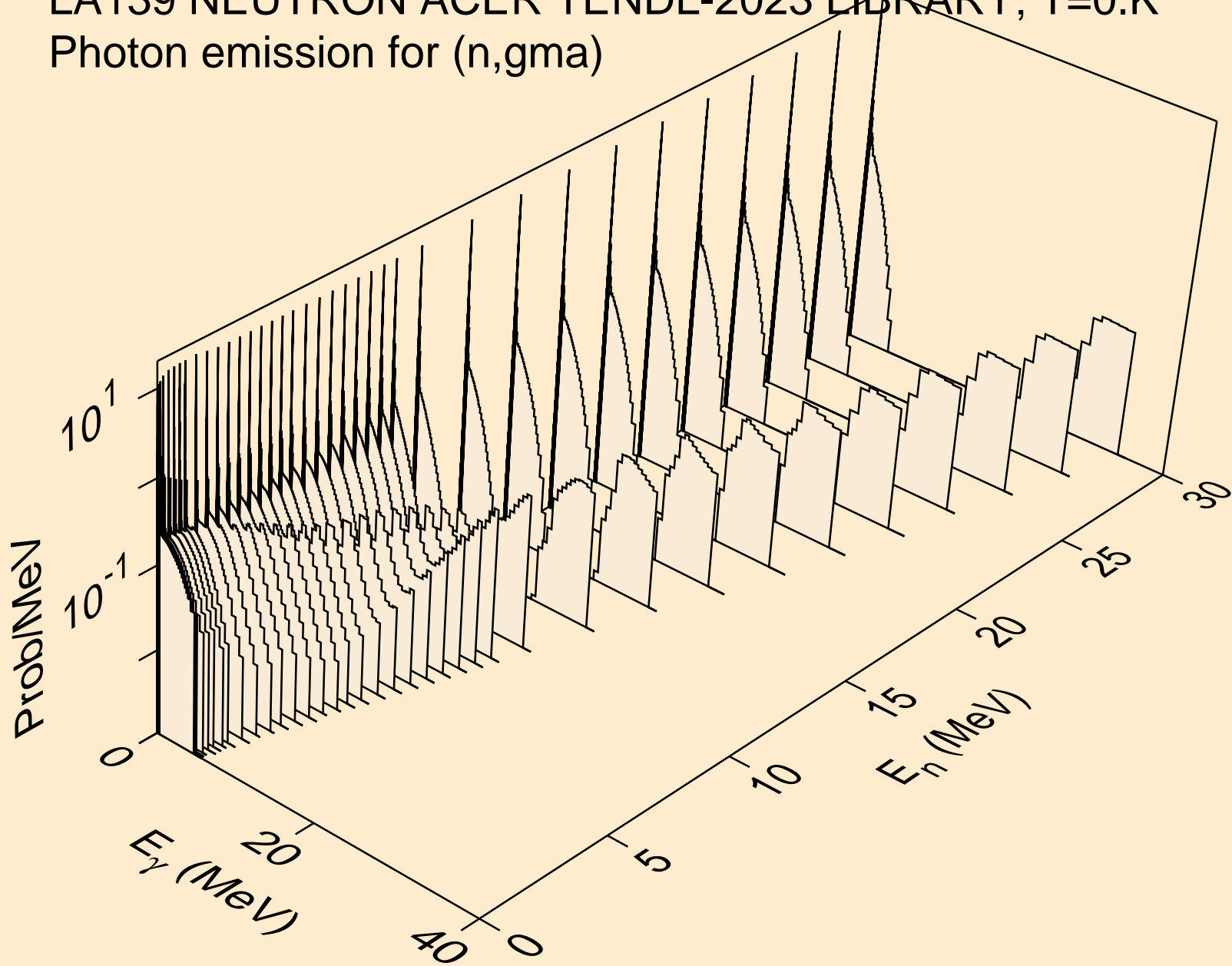


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

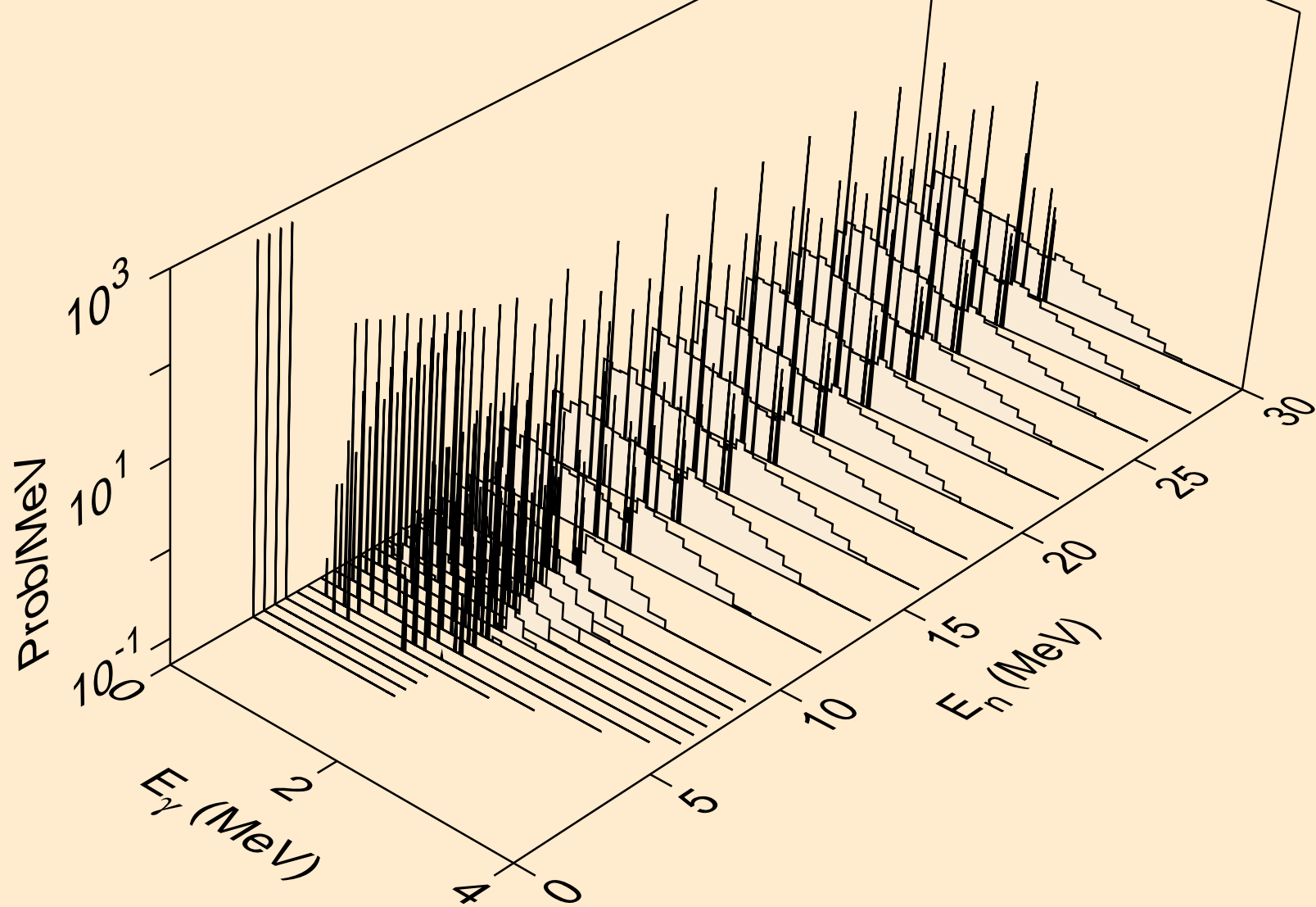




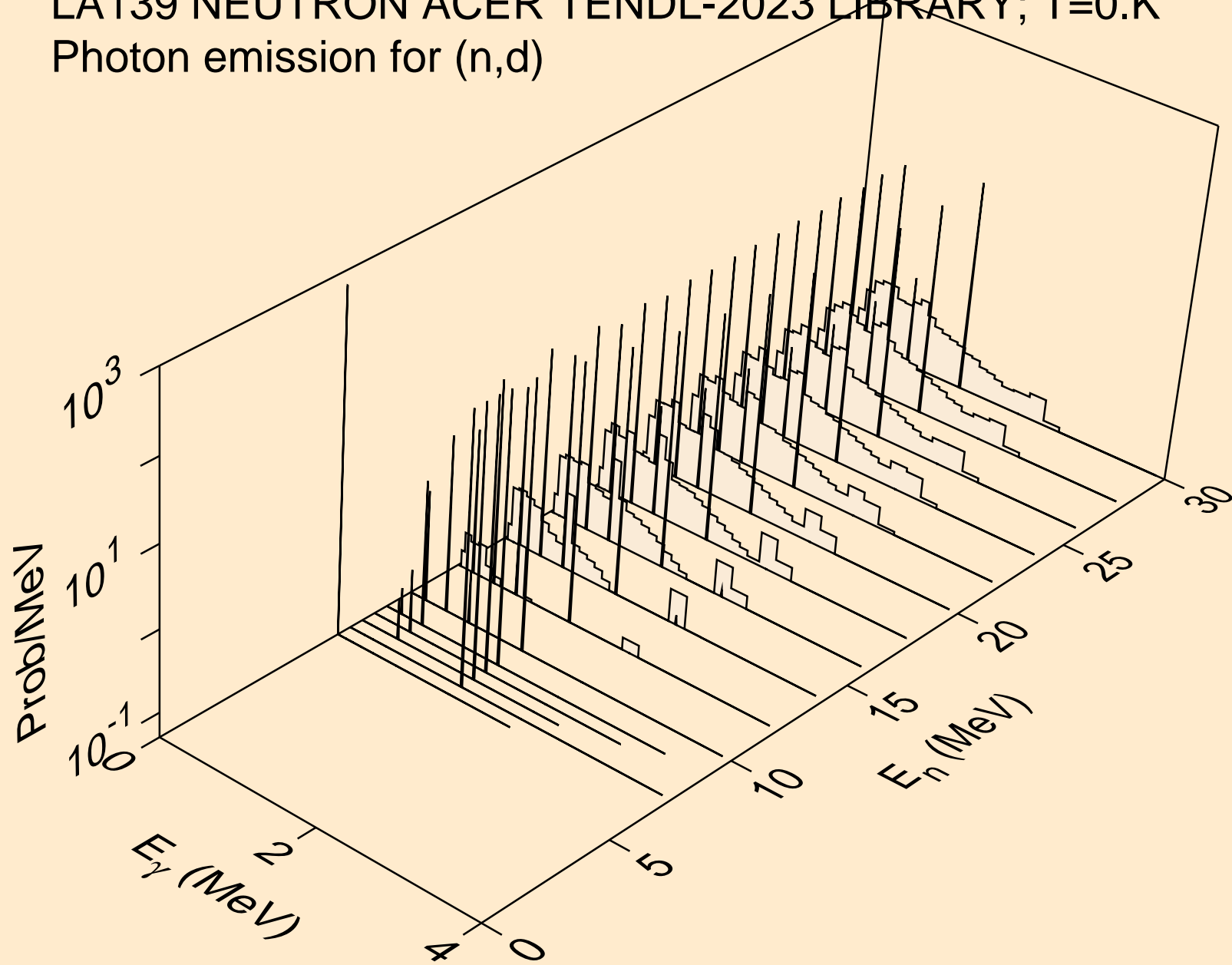
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Photon emission for (n,gma)



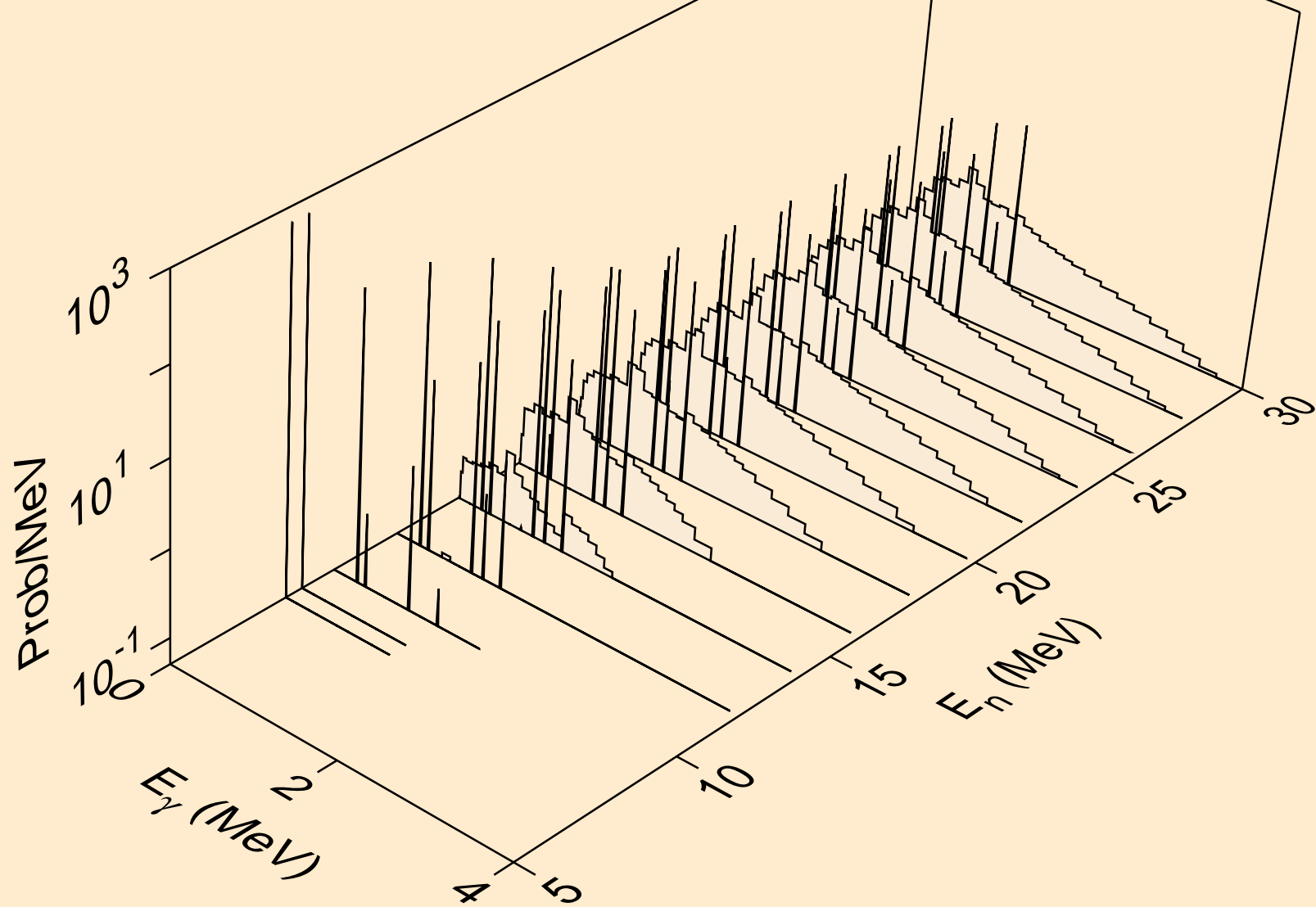
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Photon emission for (n,p)



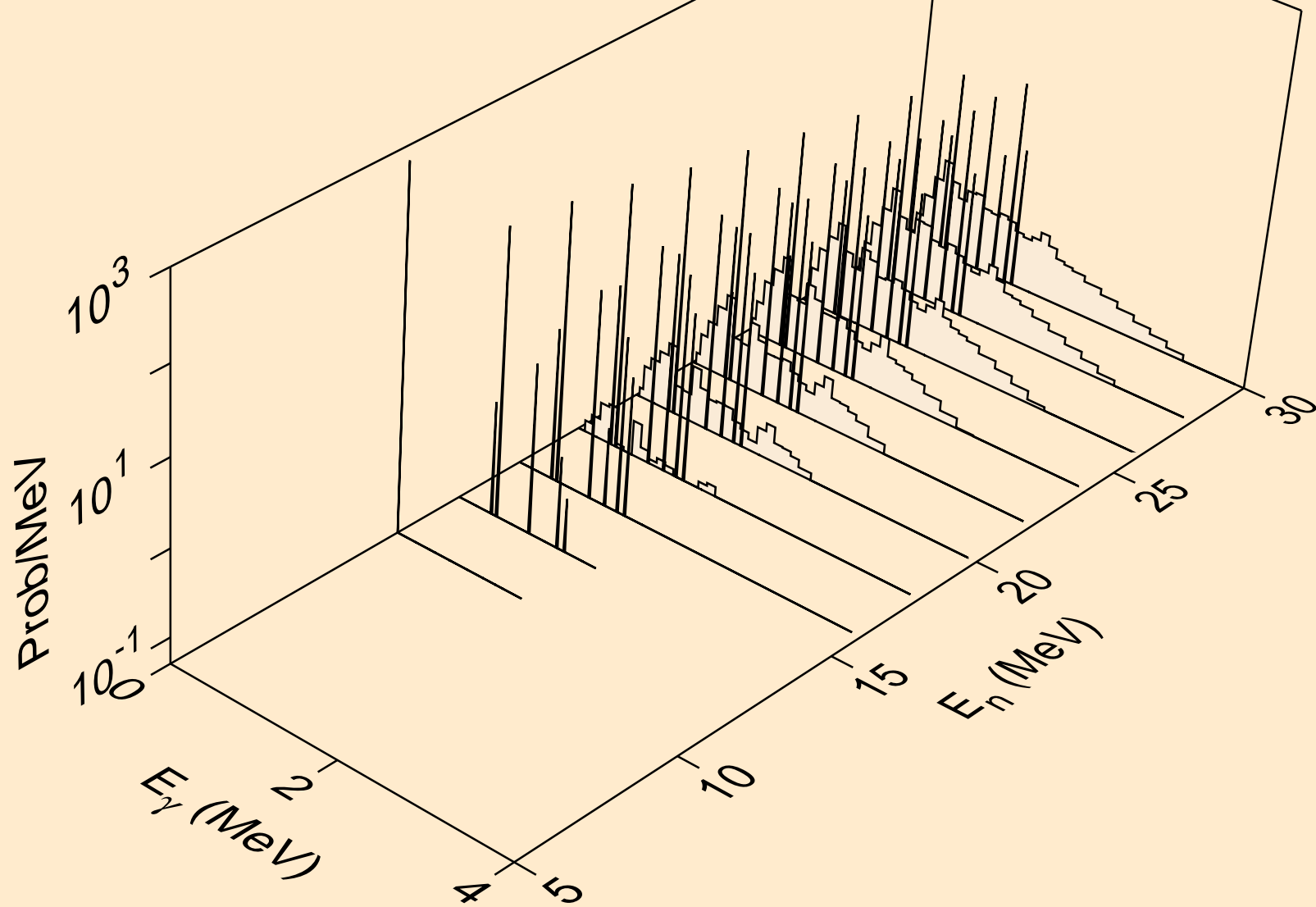
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Photon emission for (n,d)



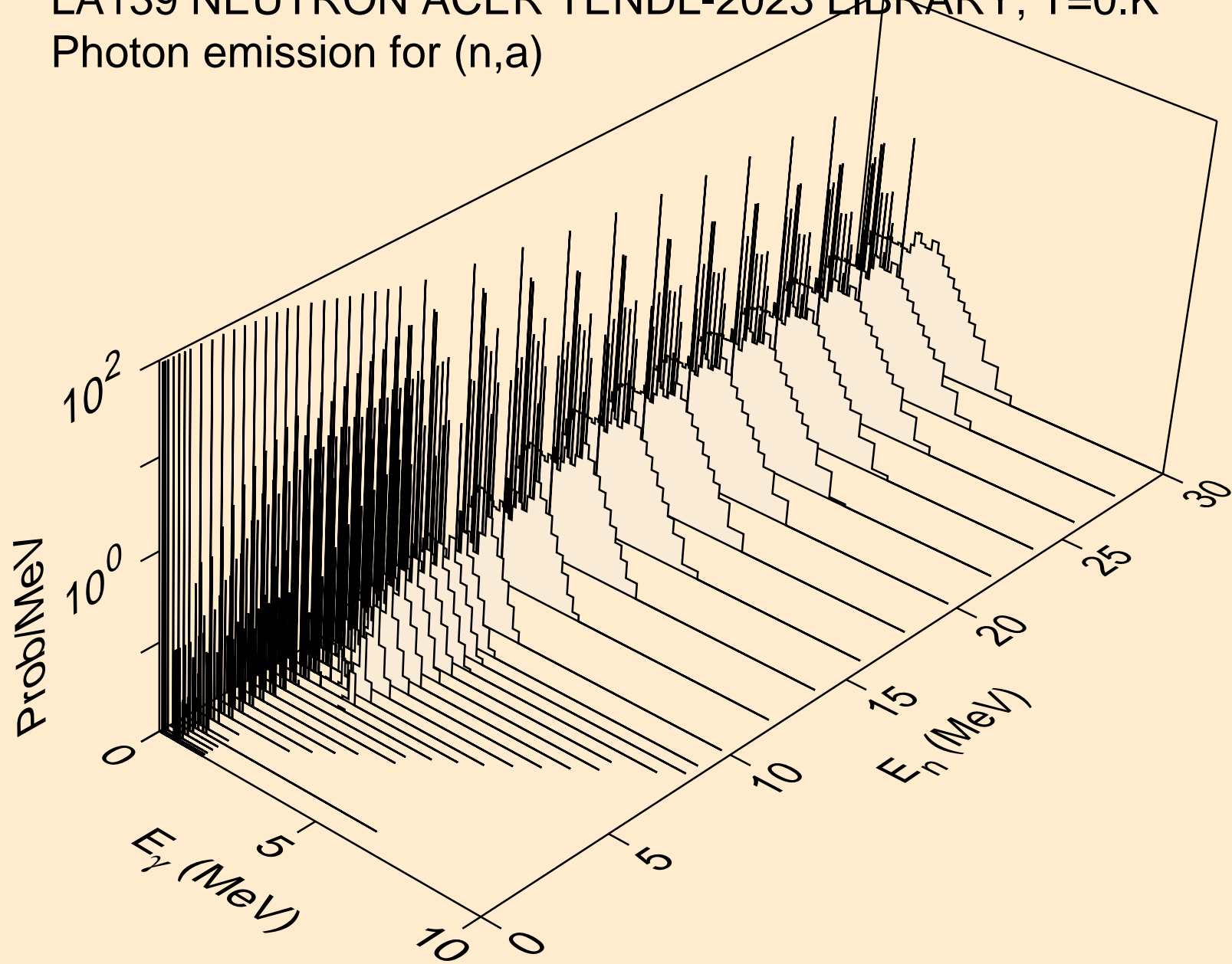
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Photon emission for (n,t)



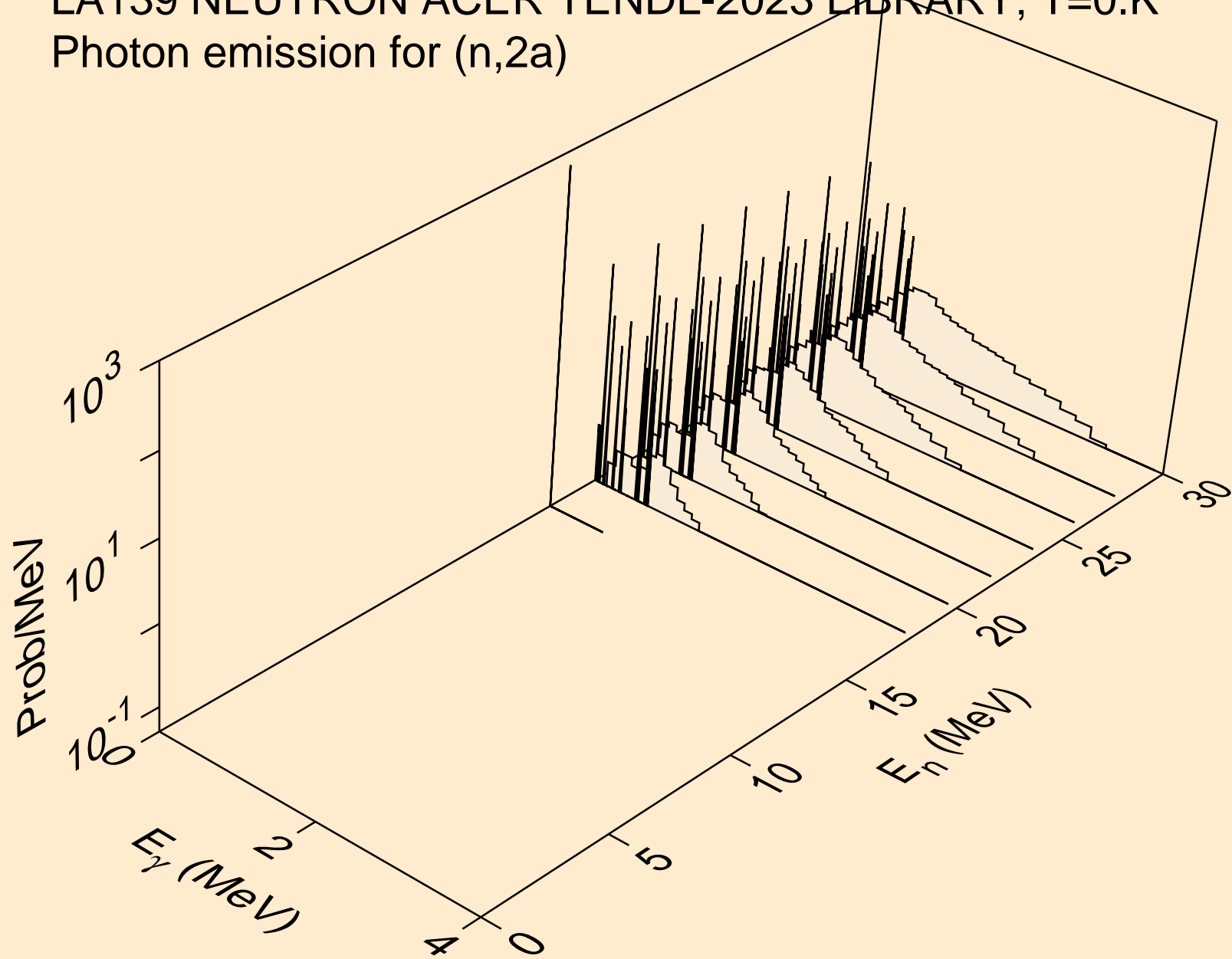
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Photon emission for (n,he3)



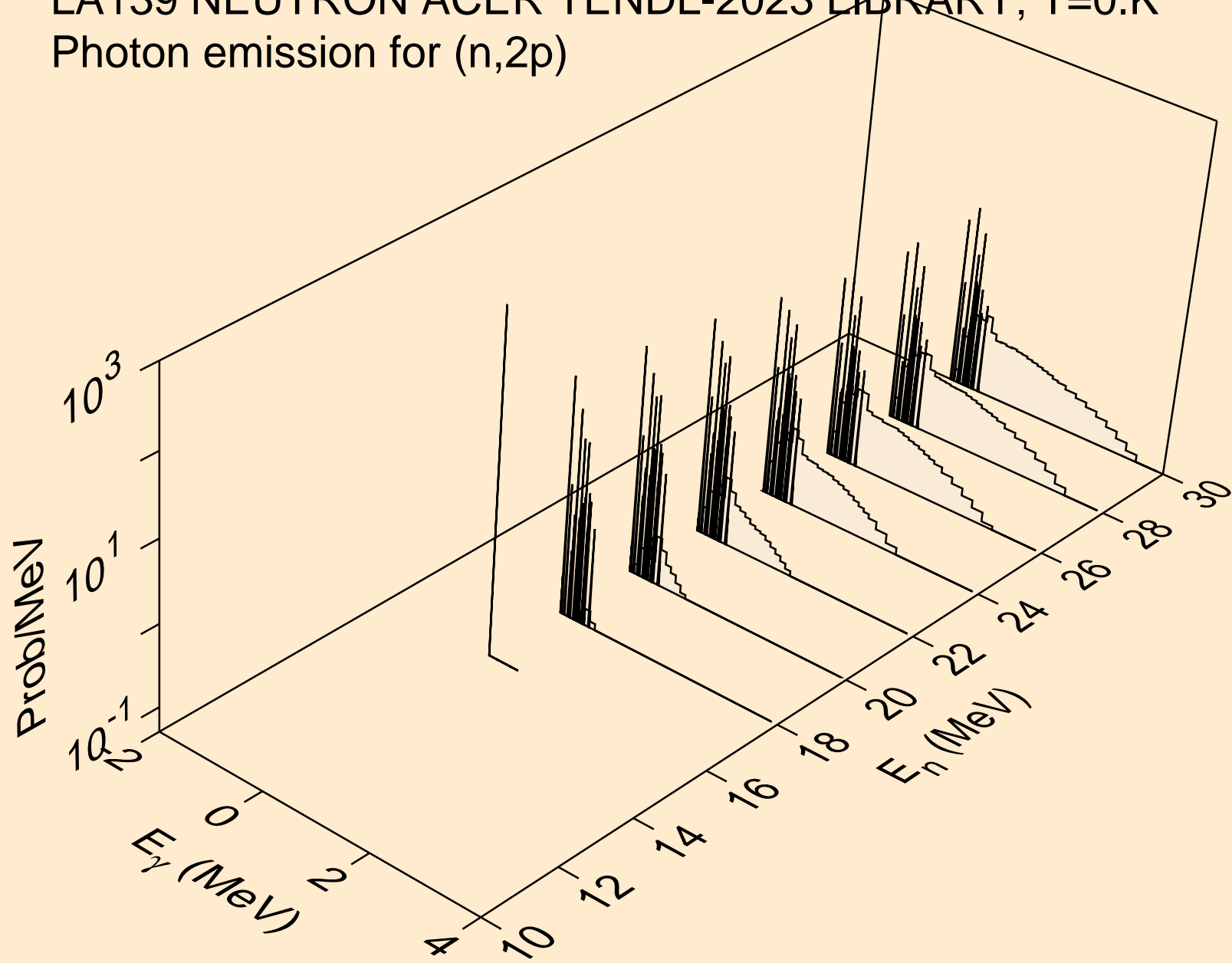
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Photon emission for (n,a)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)

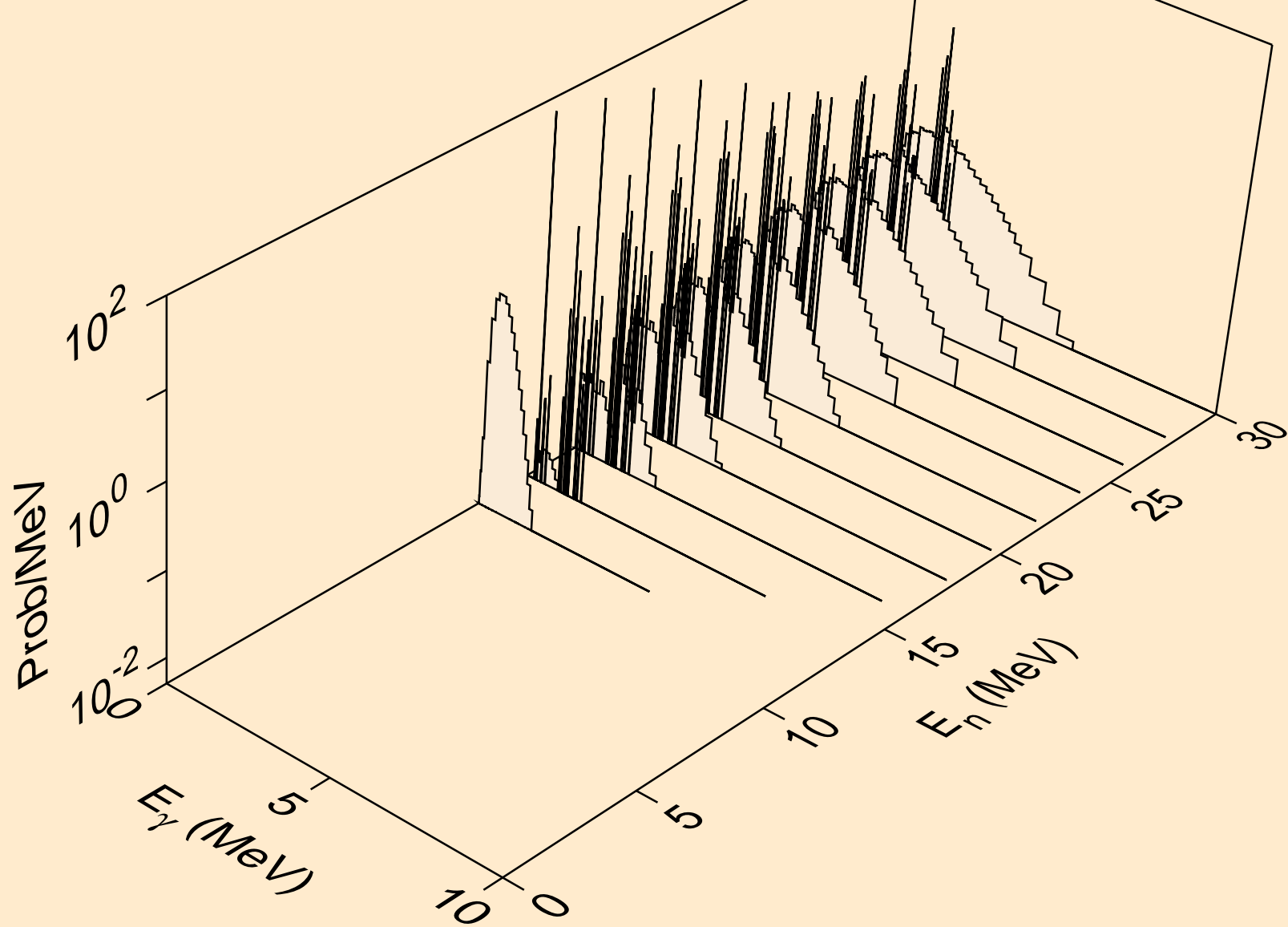


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Photon emission for (n,2p)

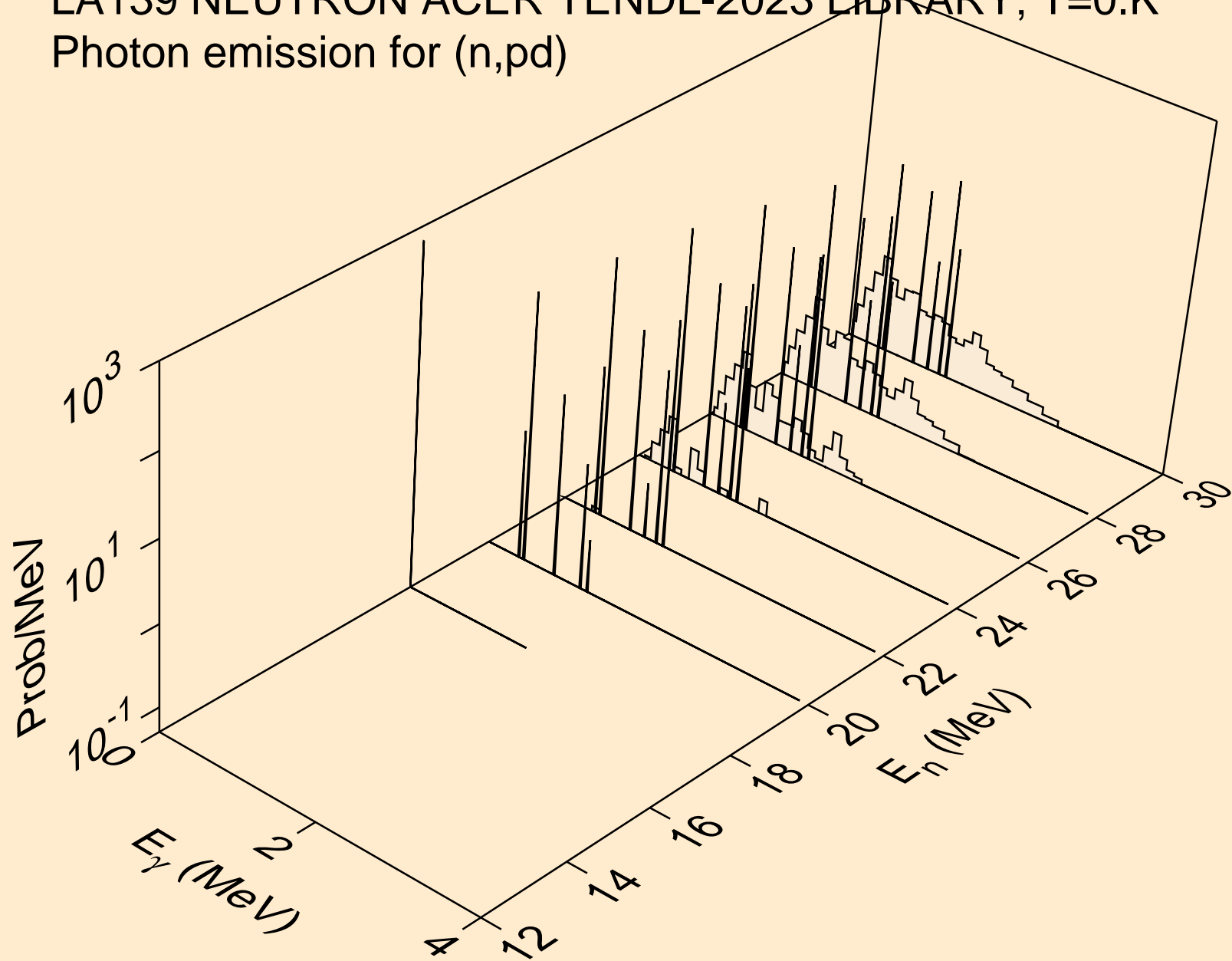




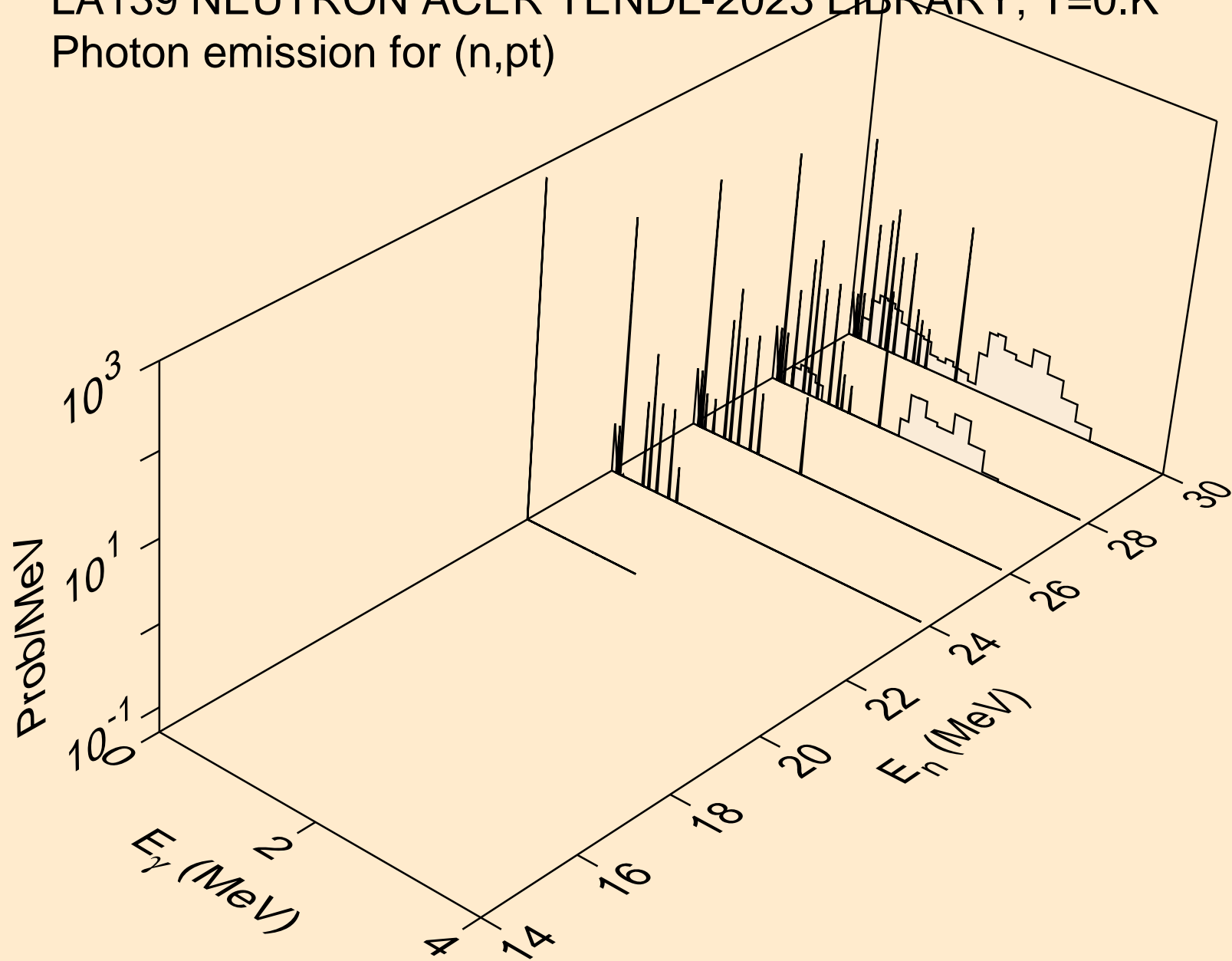
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Photon emission for (n,p $\alpha$ )



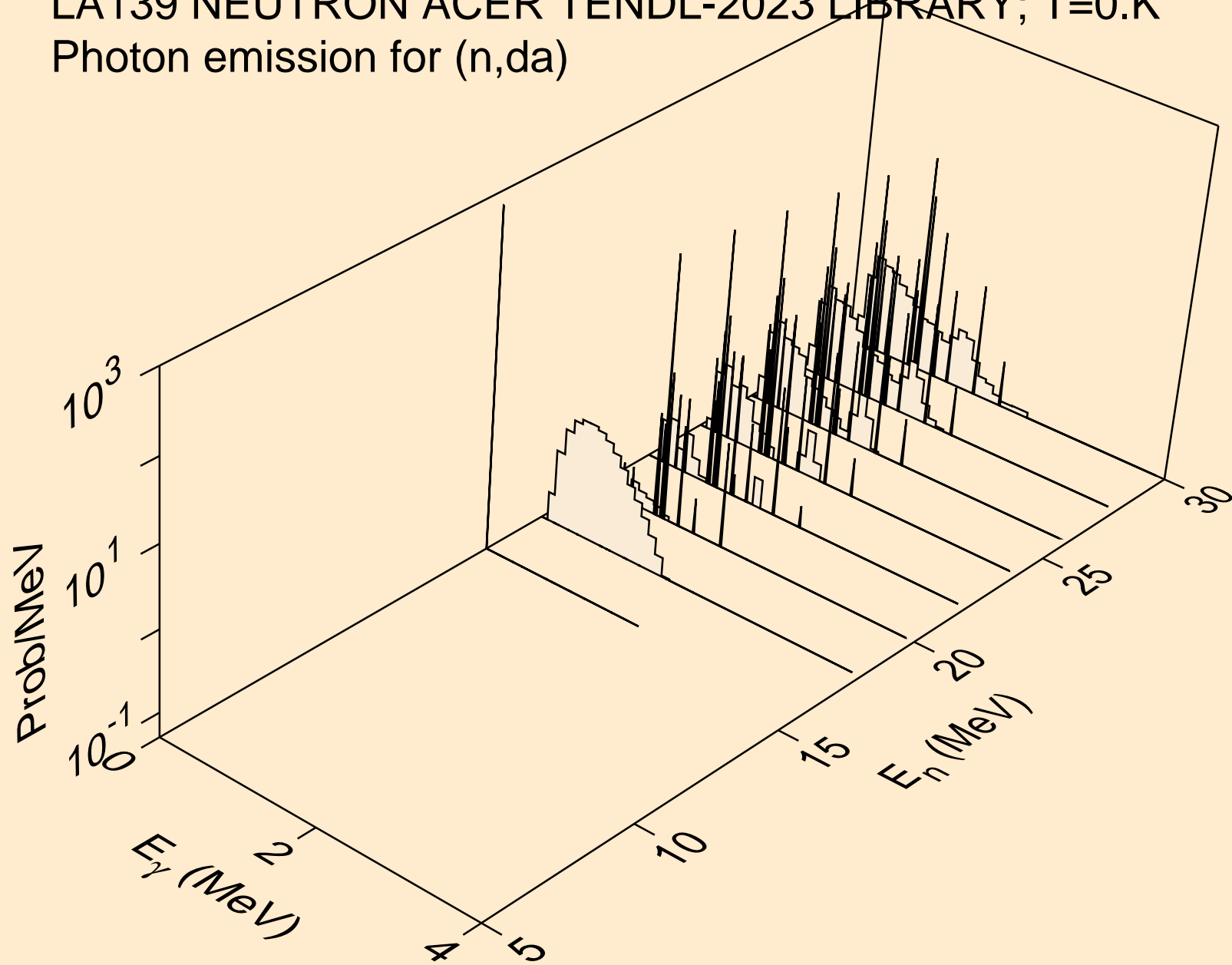
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Photon emission for (n,pd)



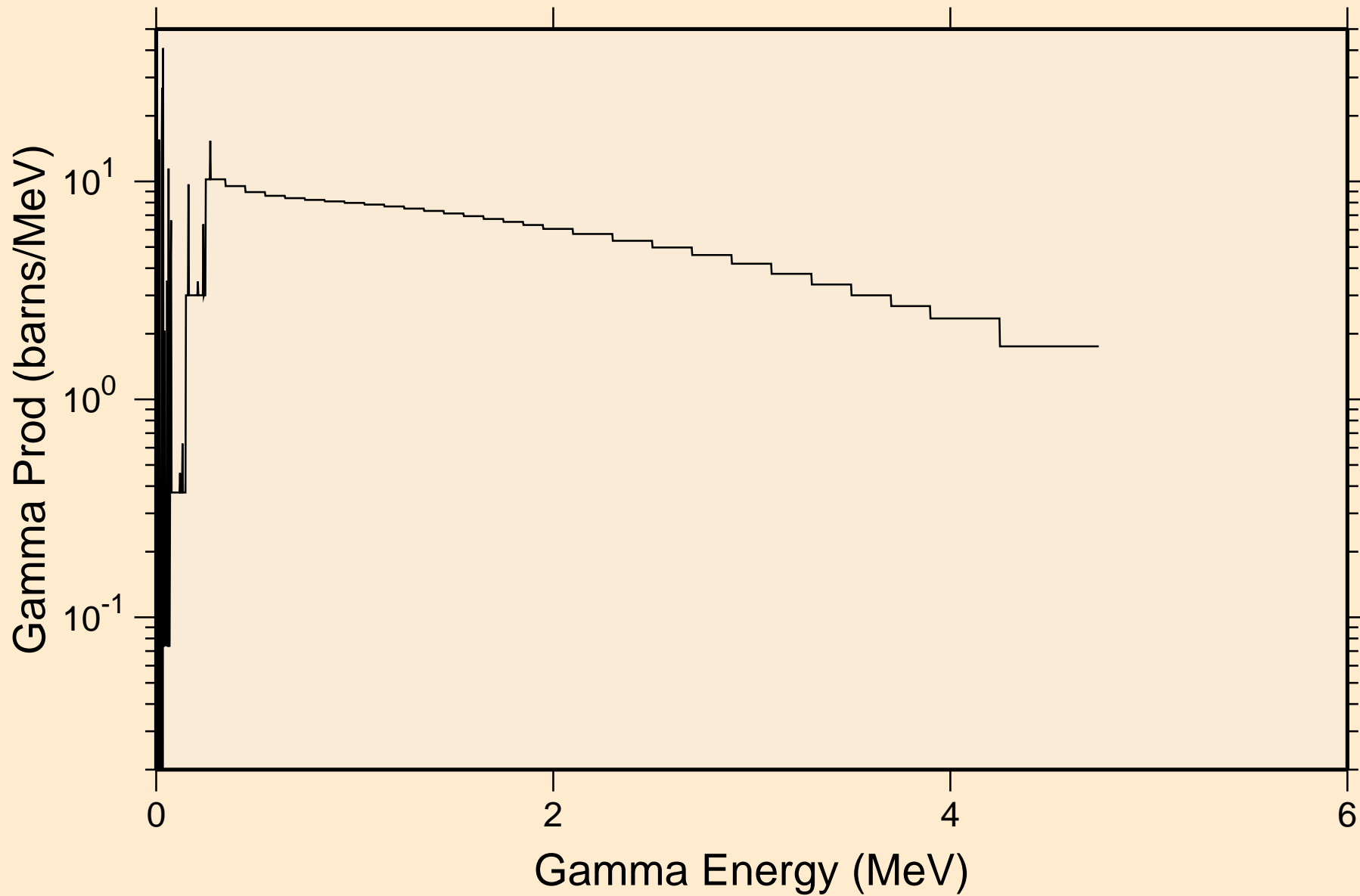
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Photon emission for (n,pt)



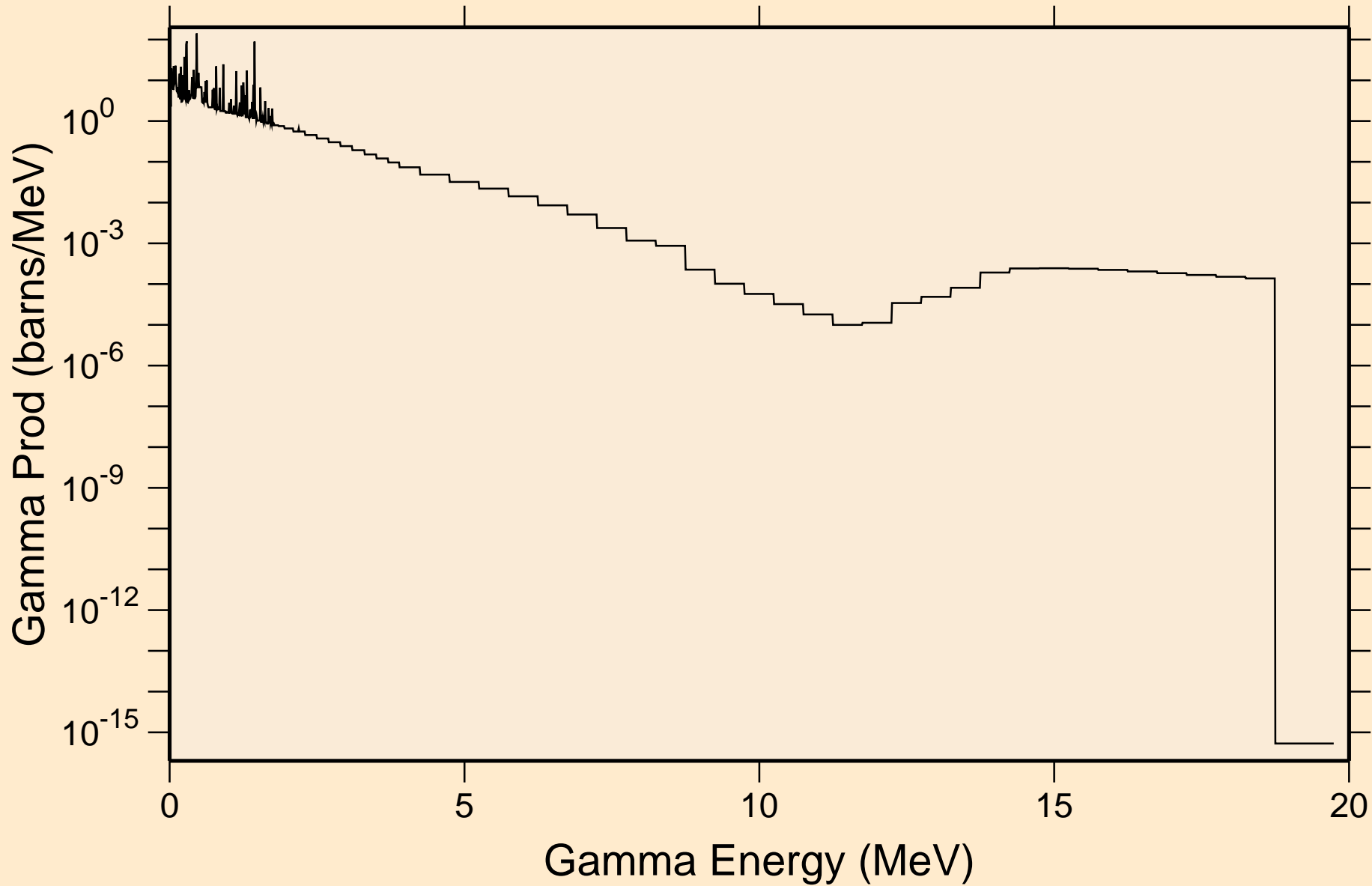
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Photon emission for (n,da)



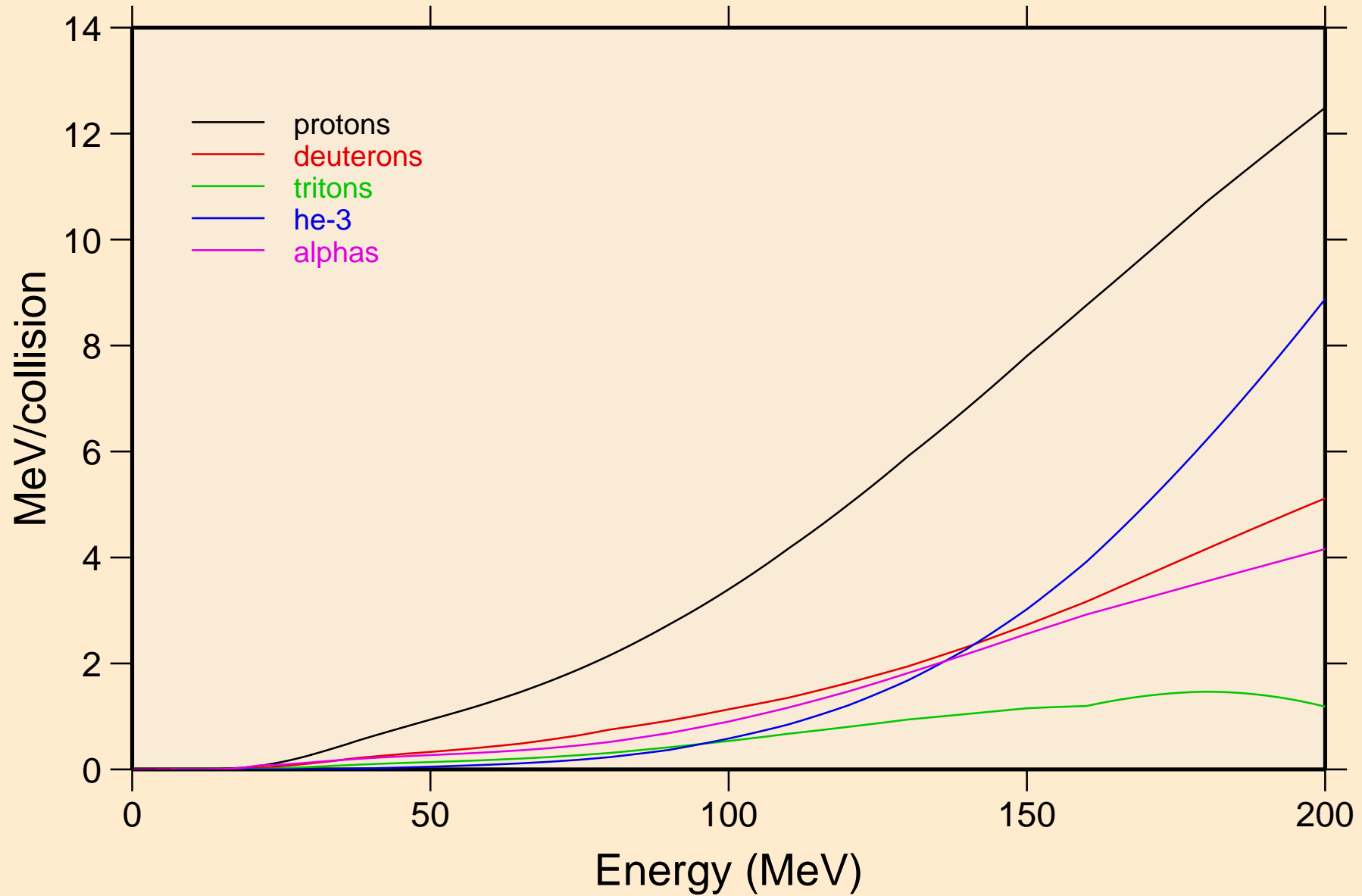
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



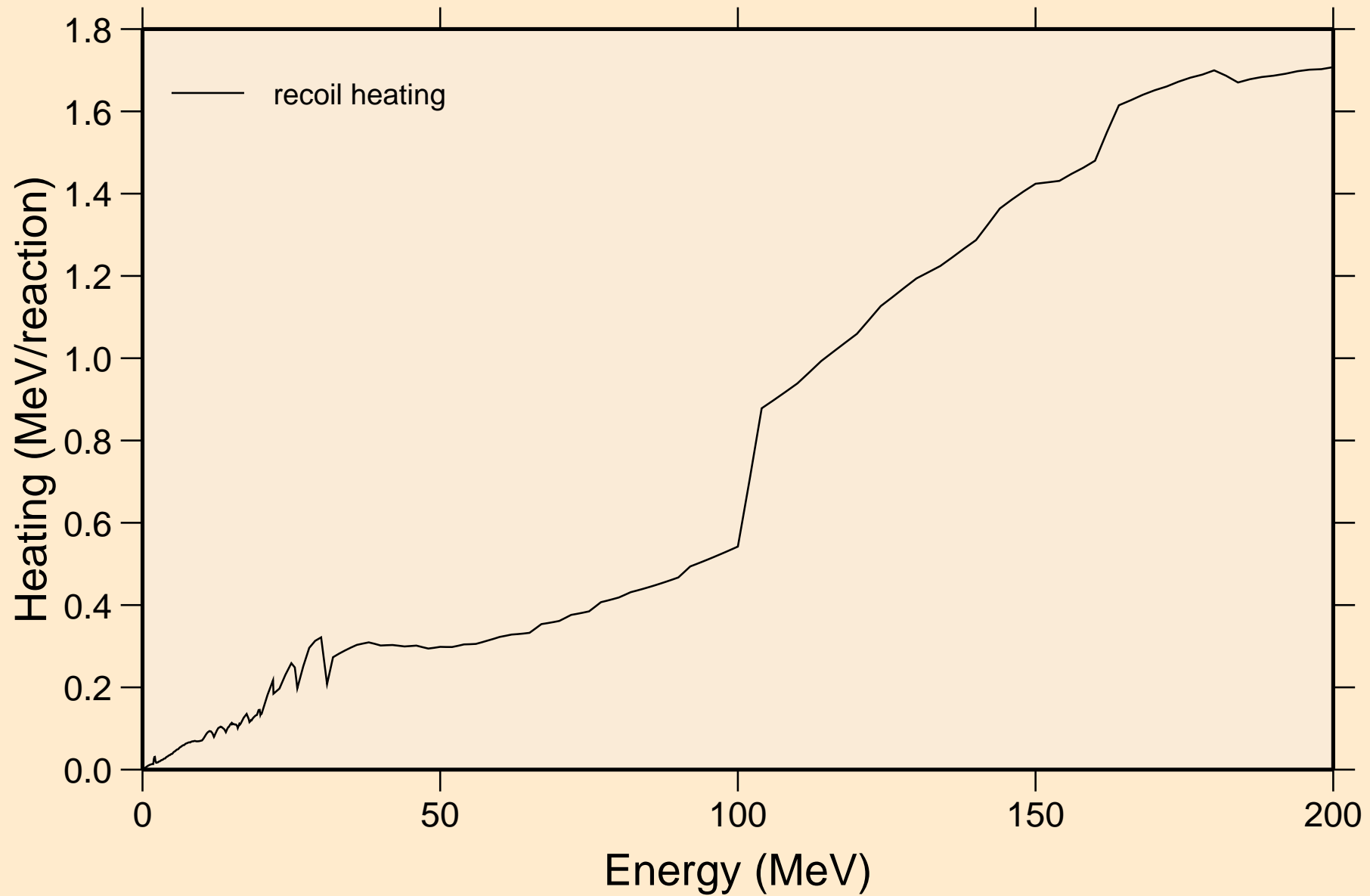
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14 MeV photon spectrum



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

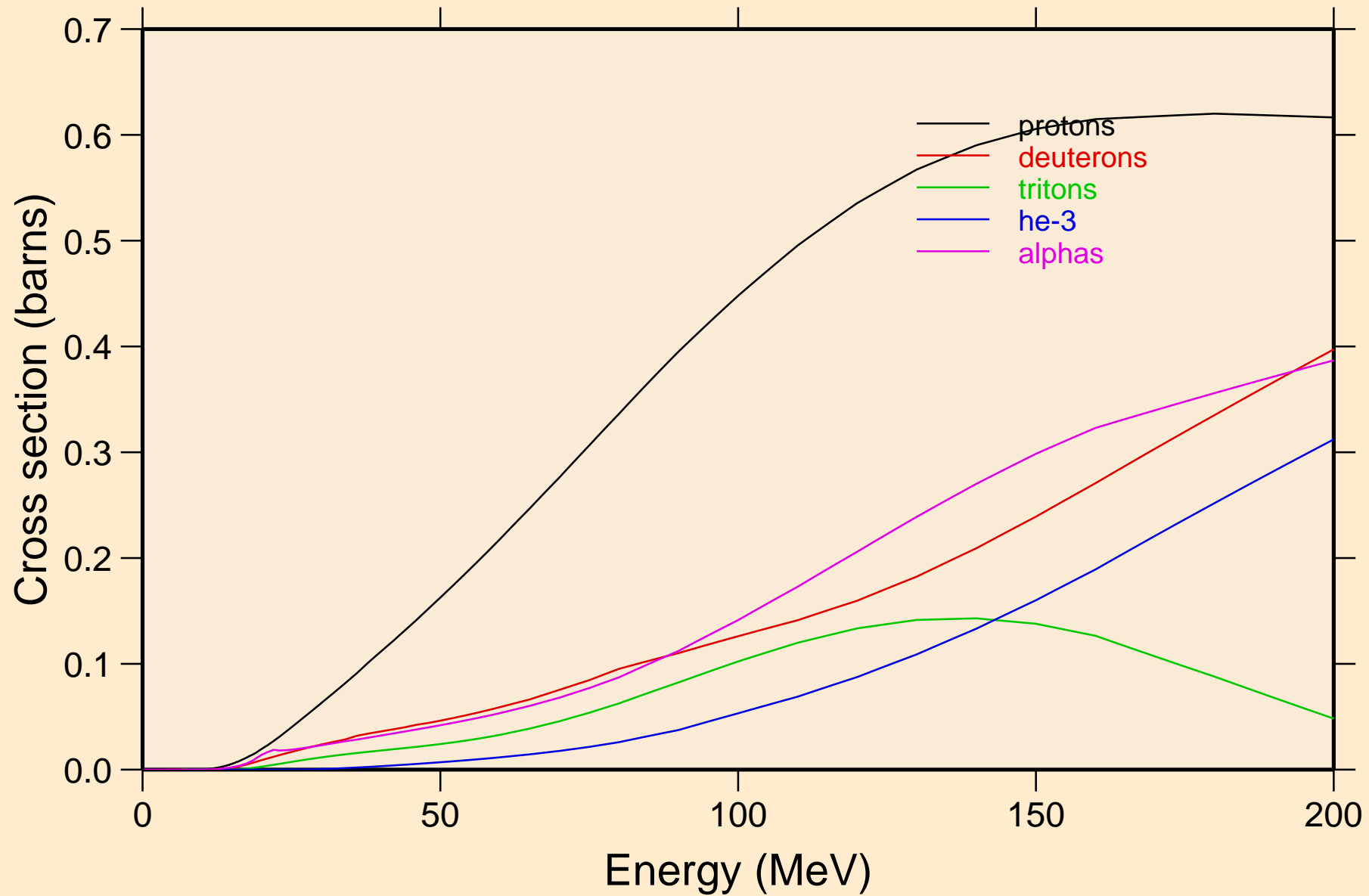


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

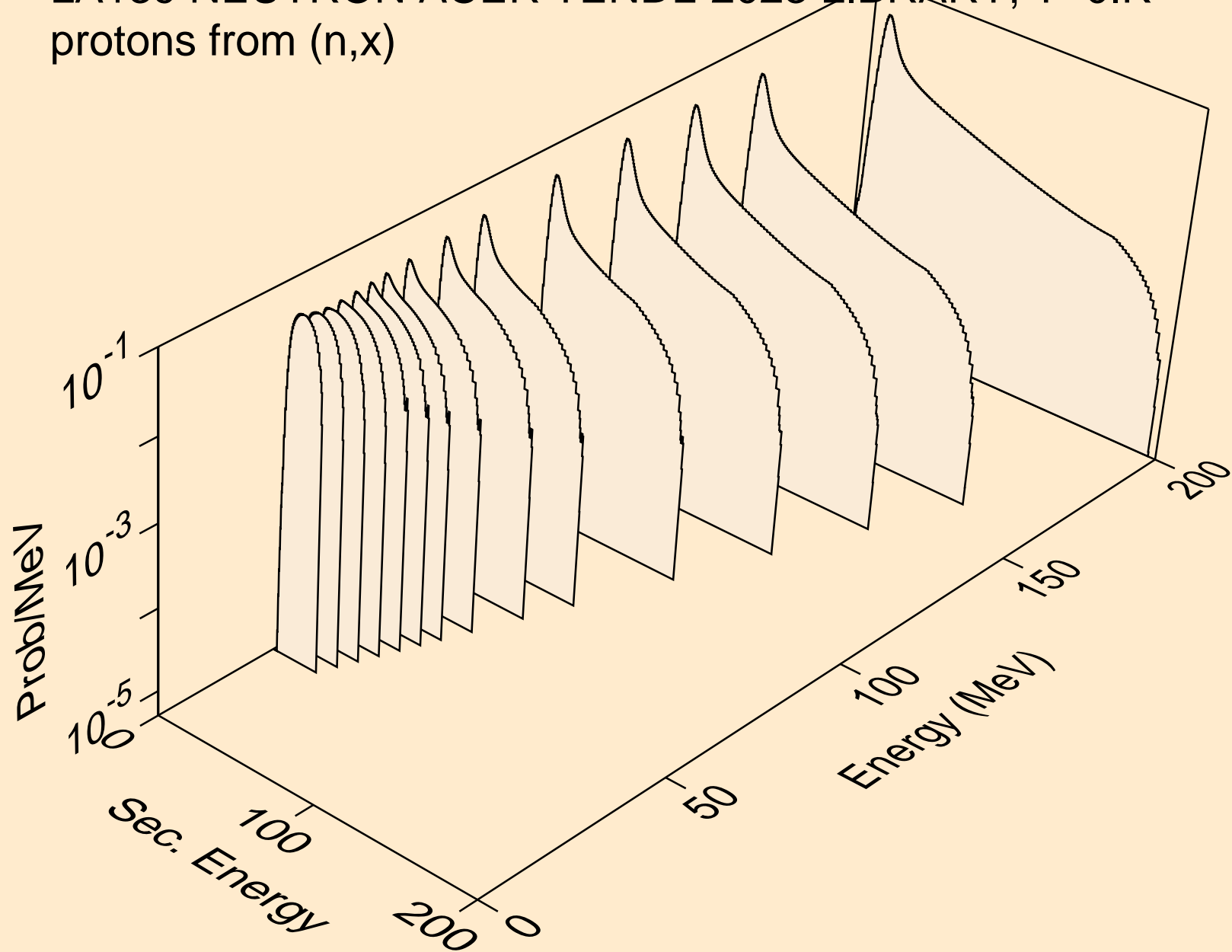




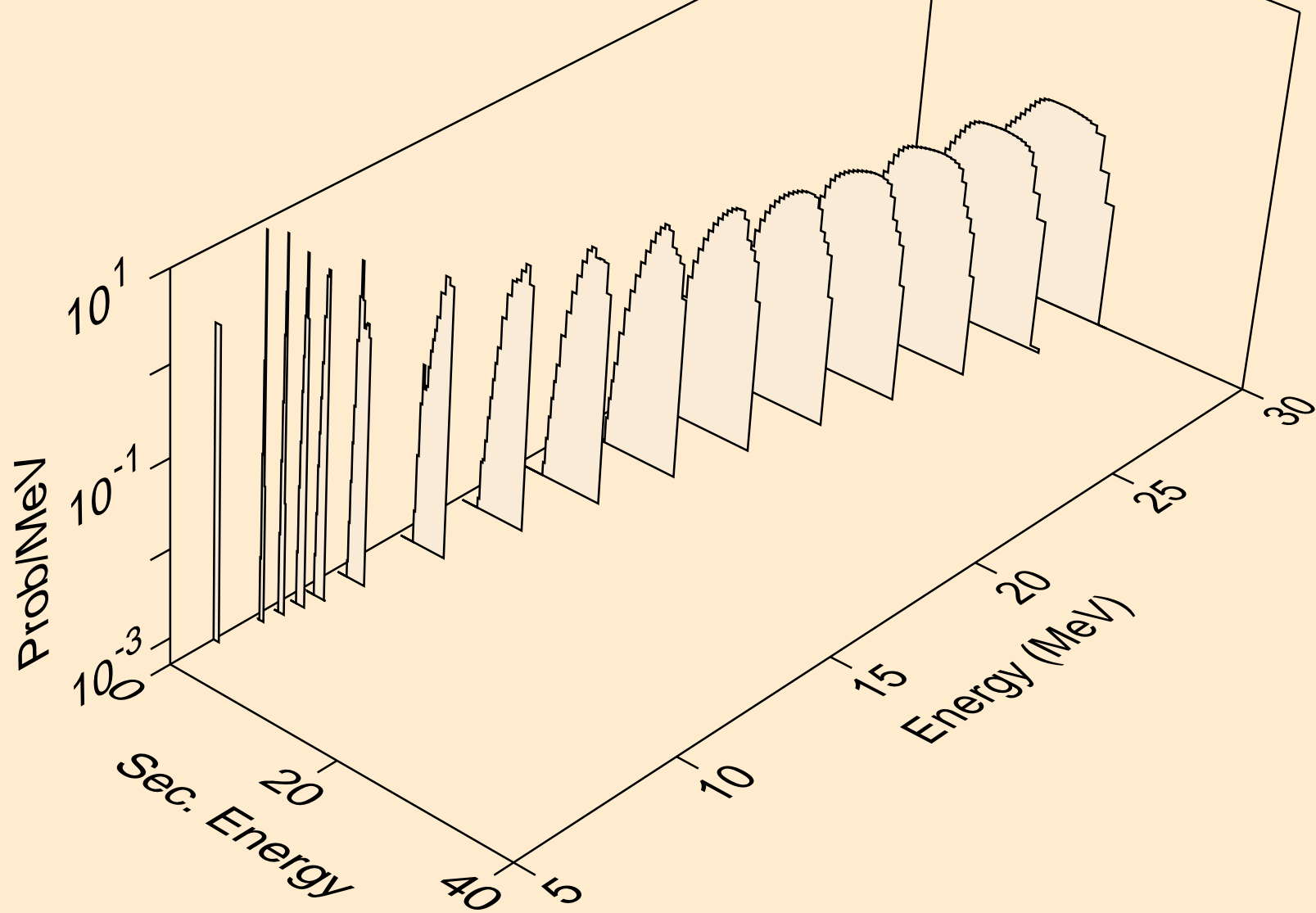
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Particle production cross sections



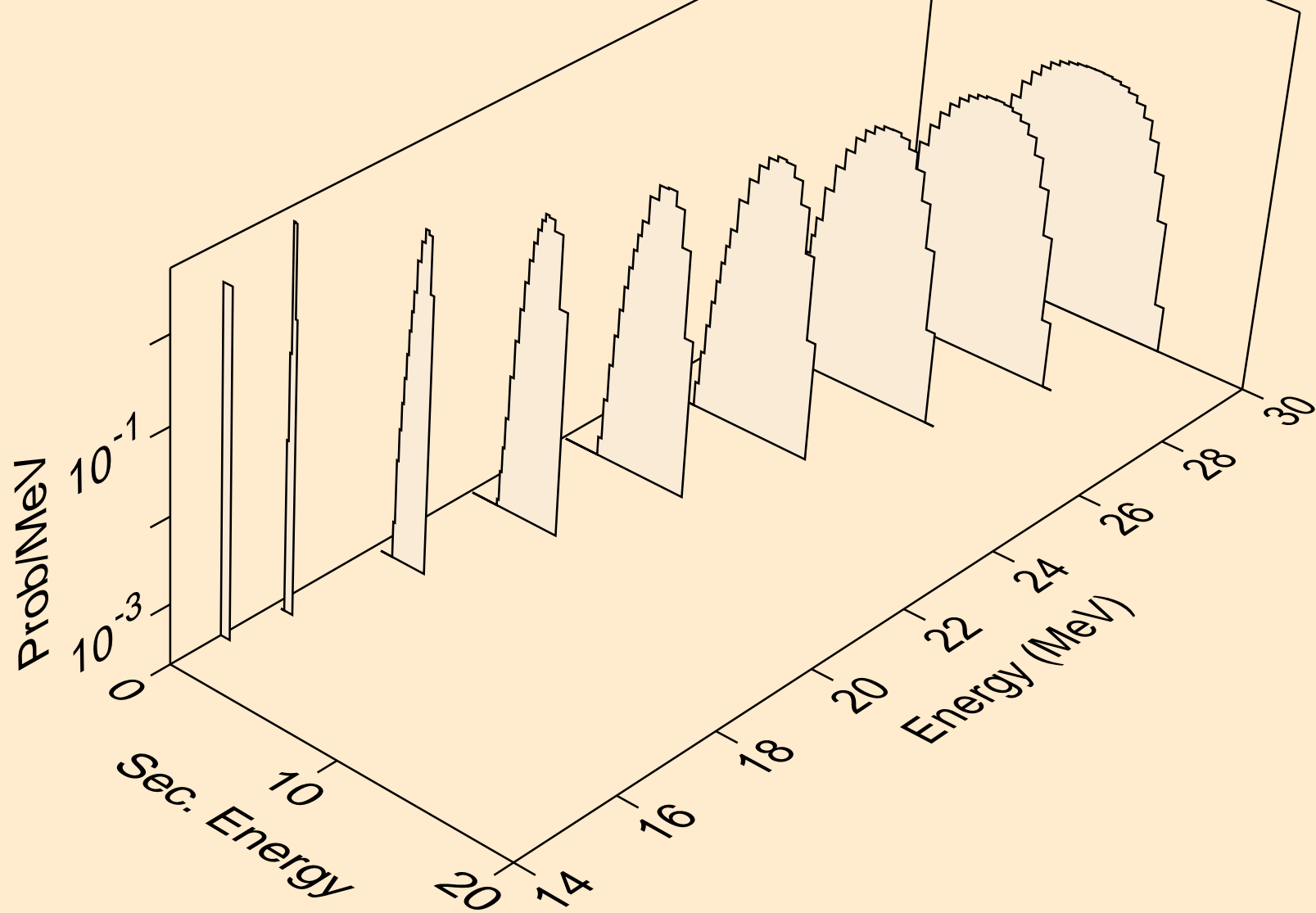
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



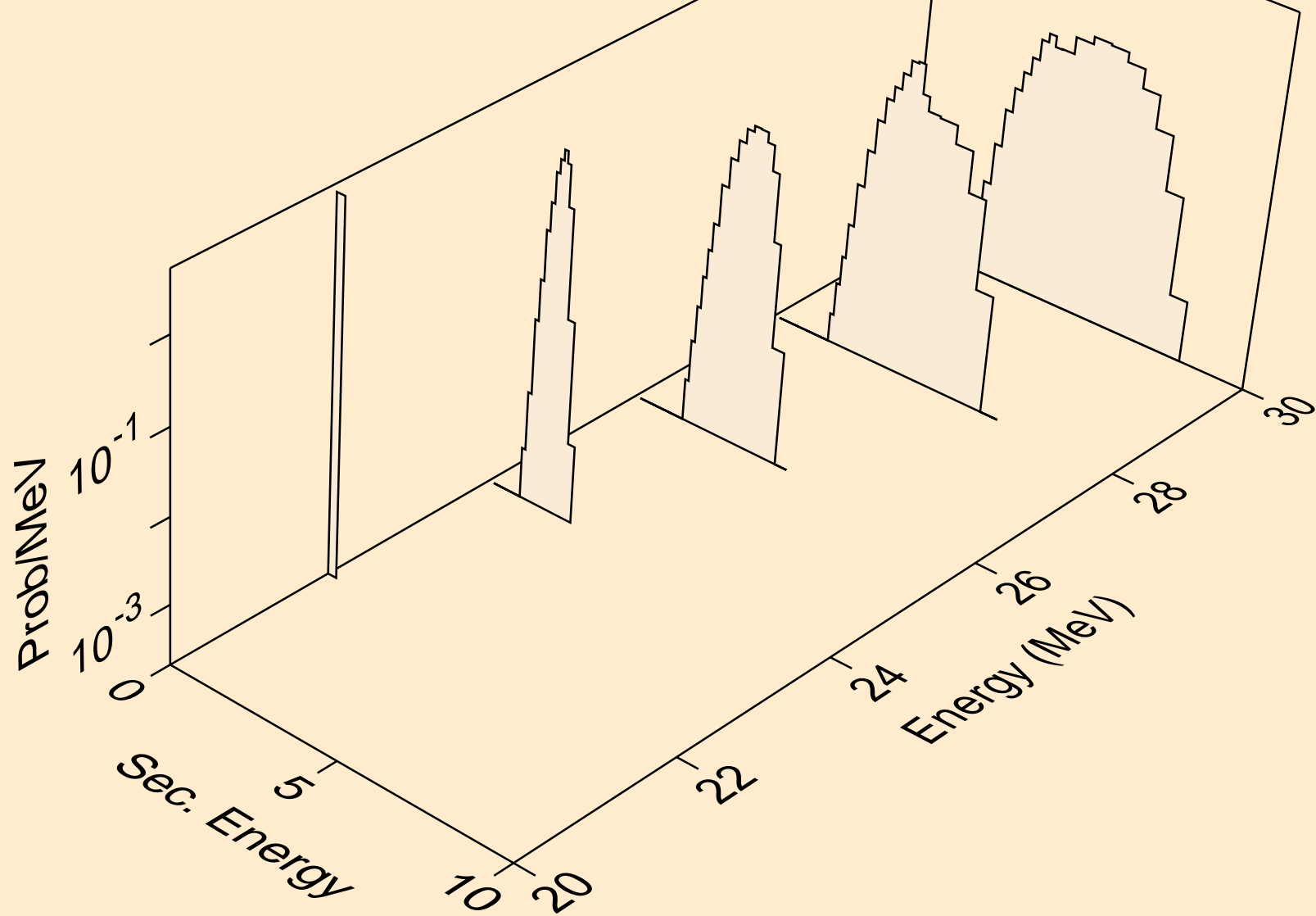
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protons from (n,n\*)p



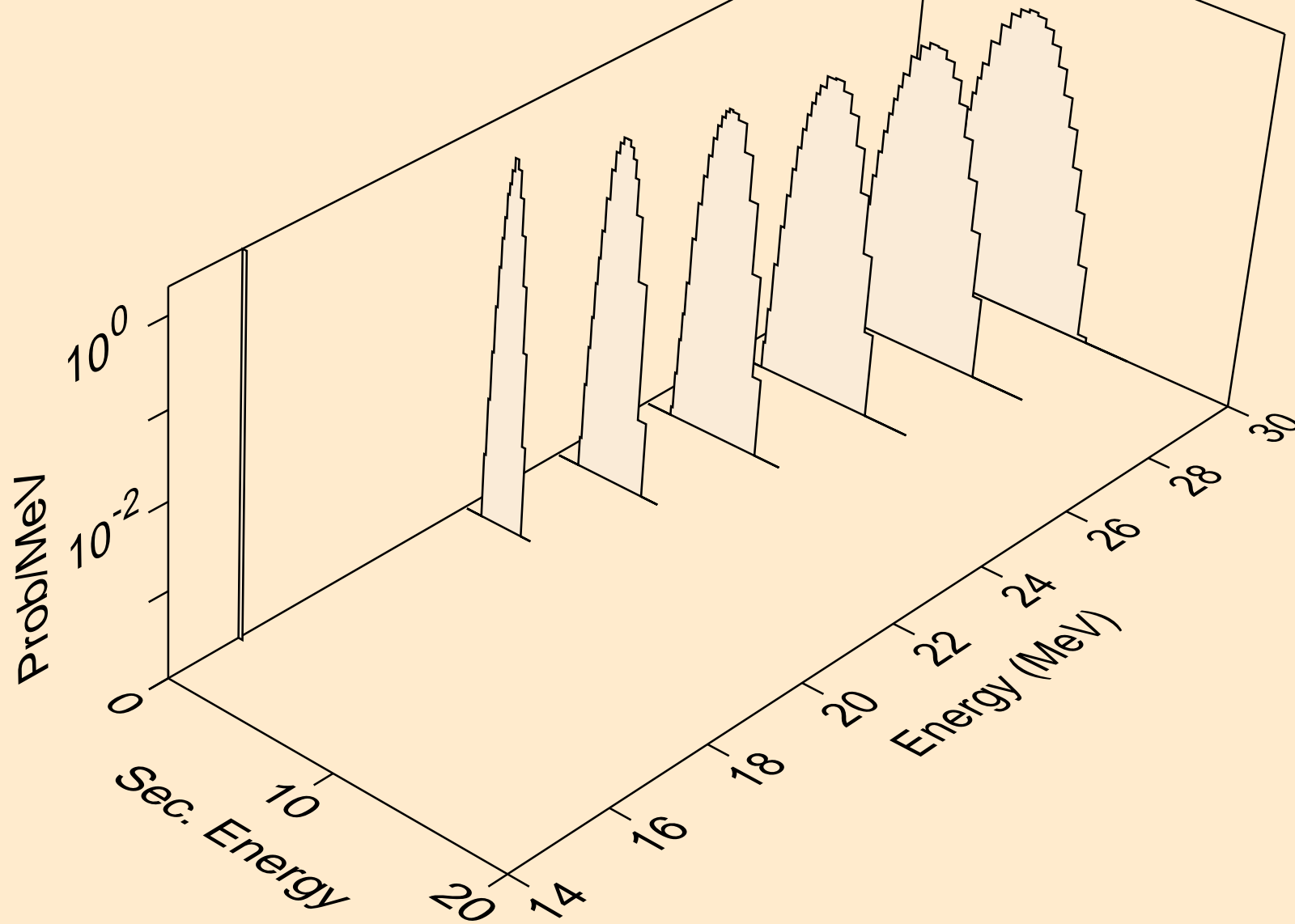
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protons from (n,2np)



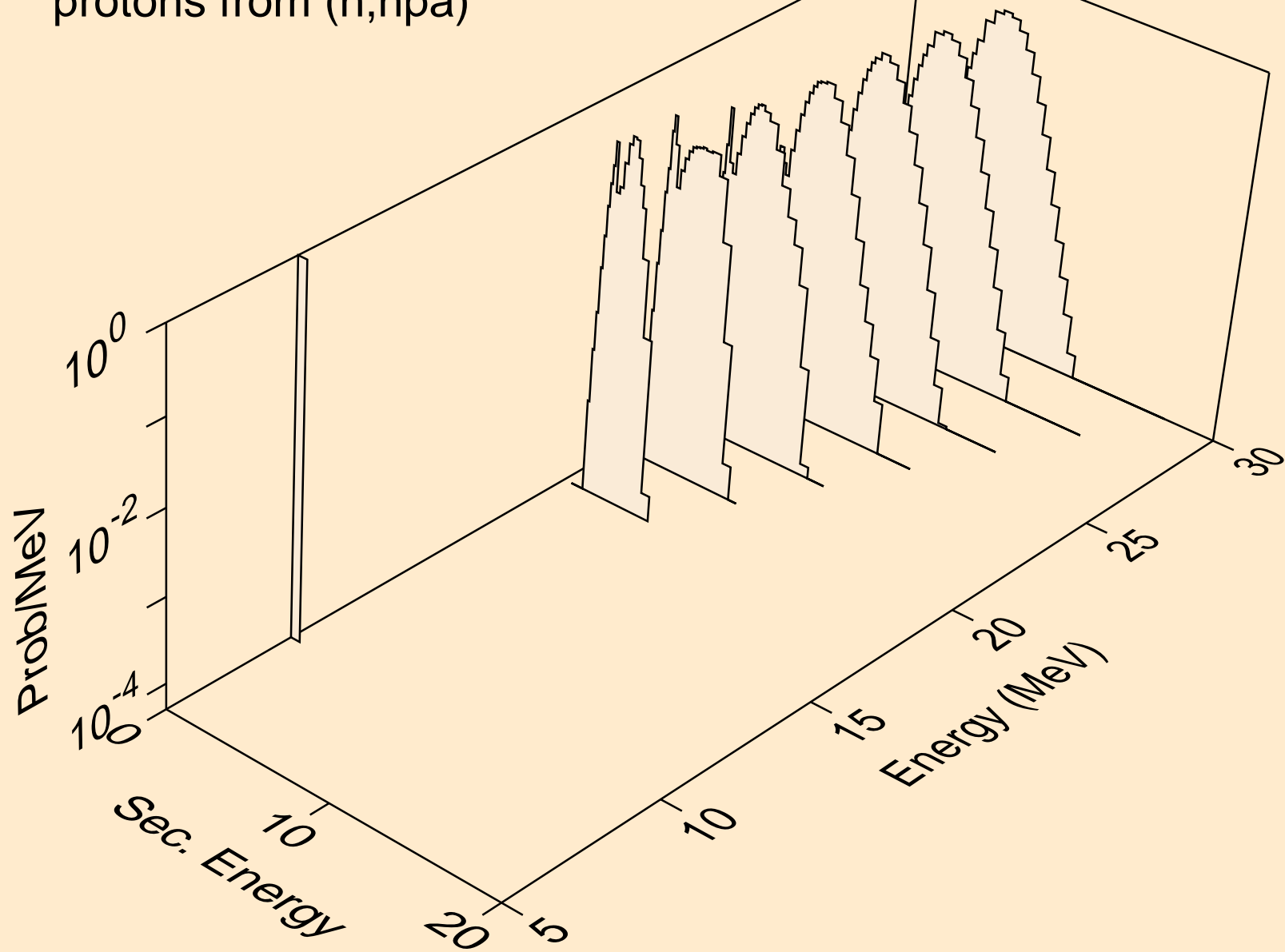
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protons from (n,3np)



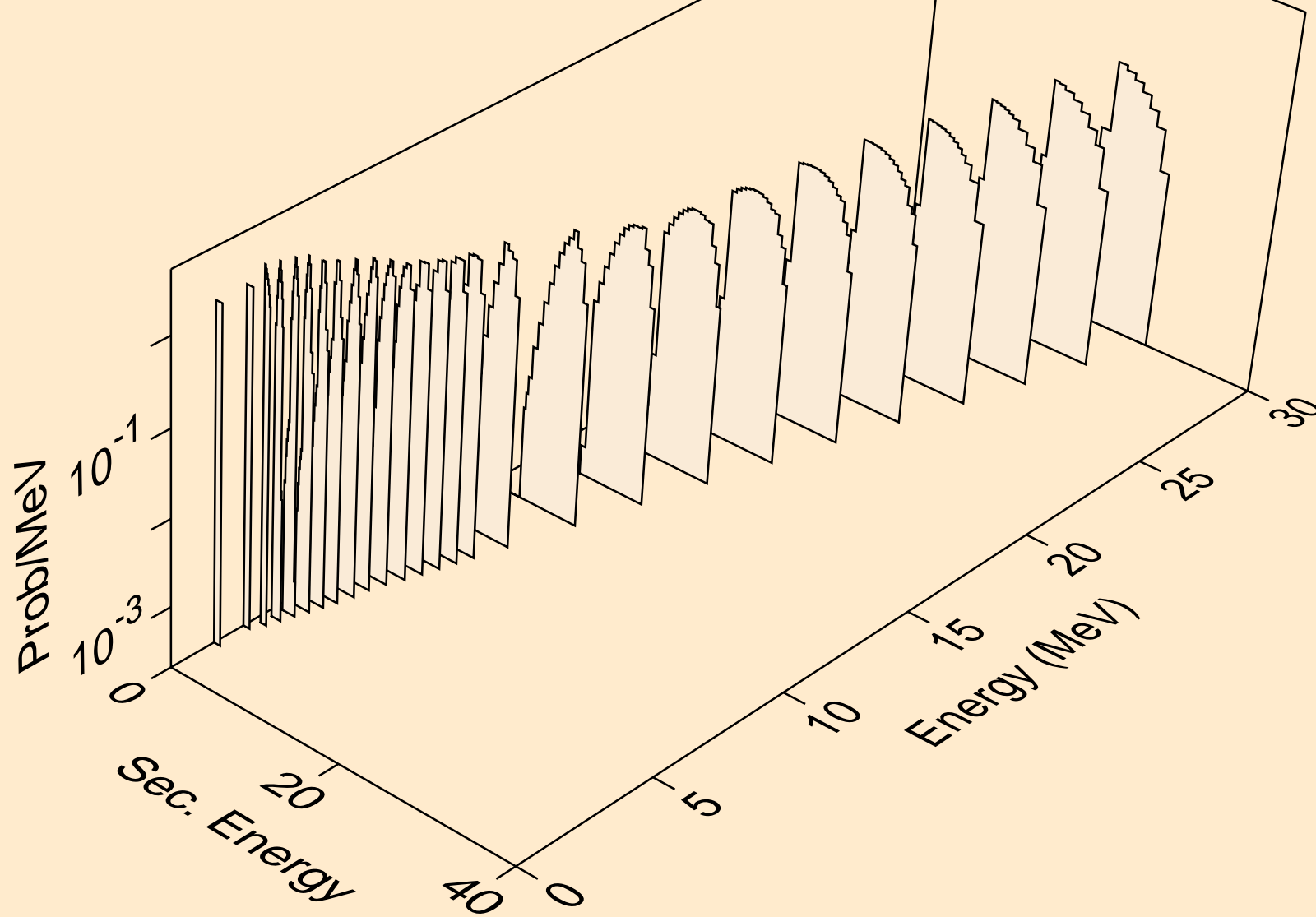
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protons from (n,n2p)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)

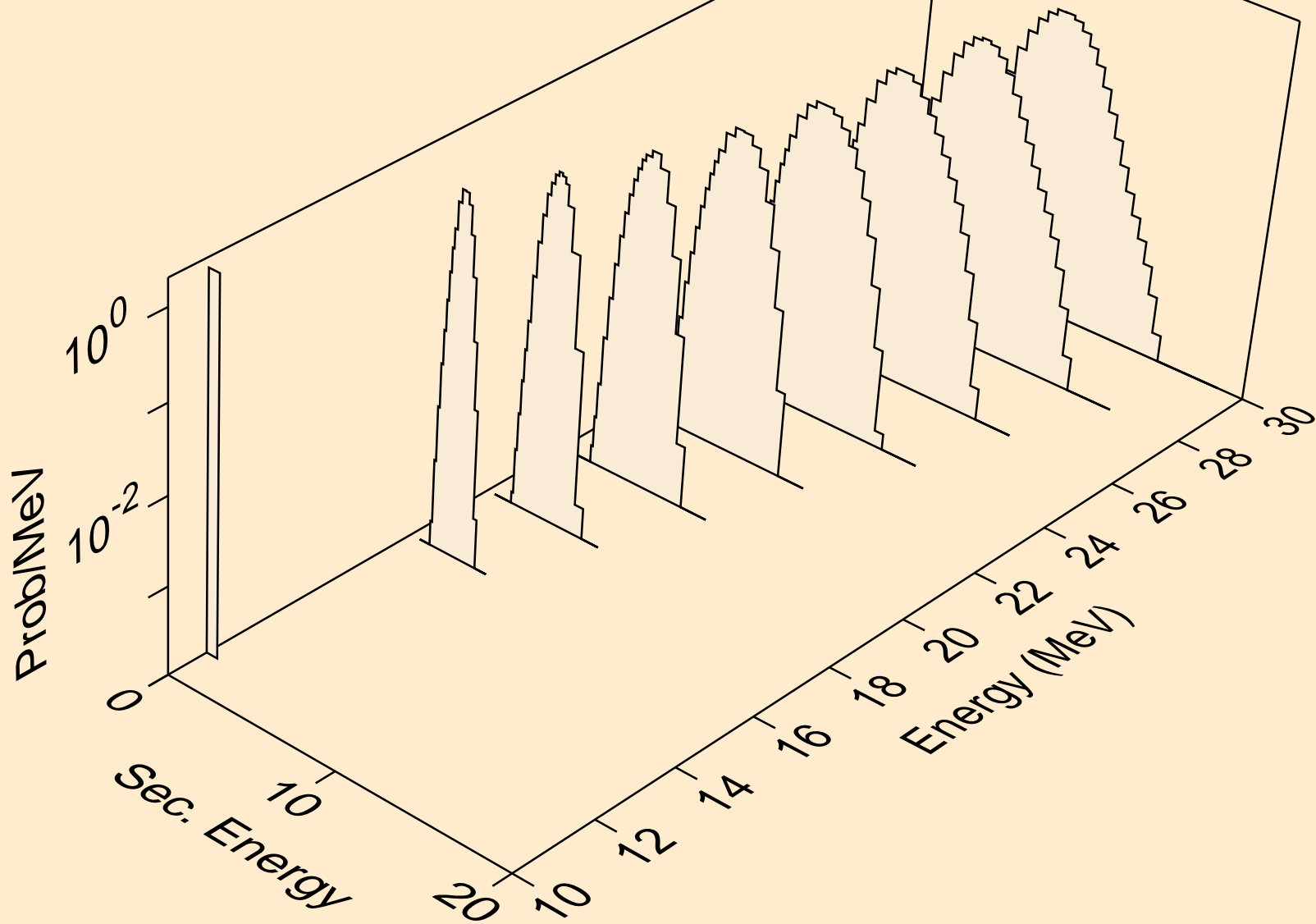


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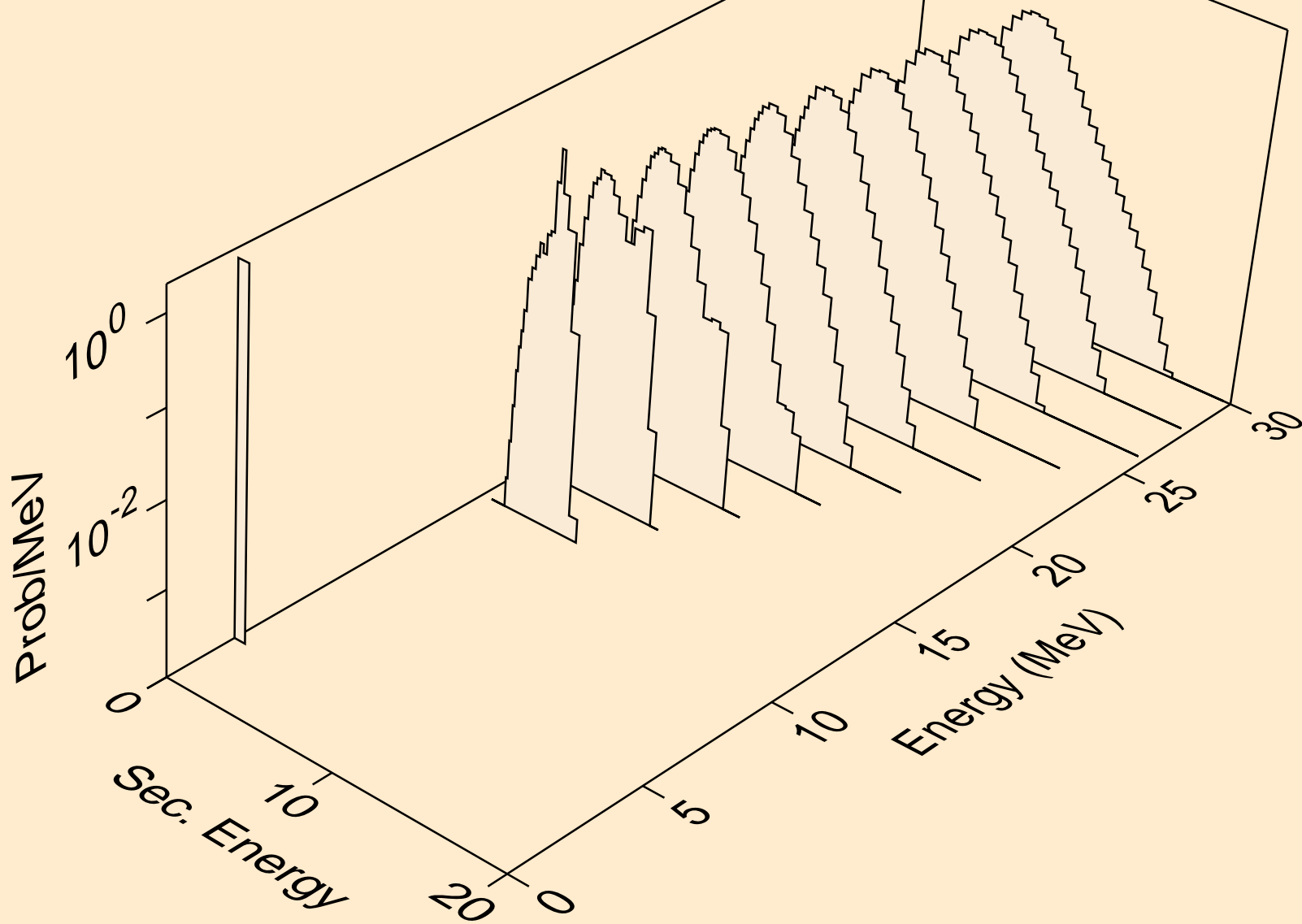




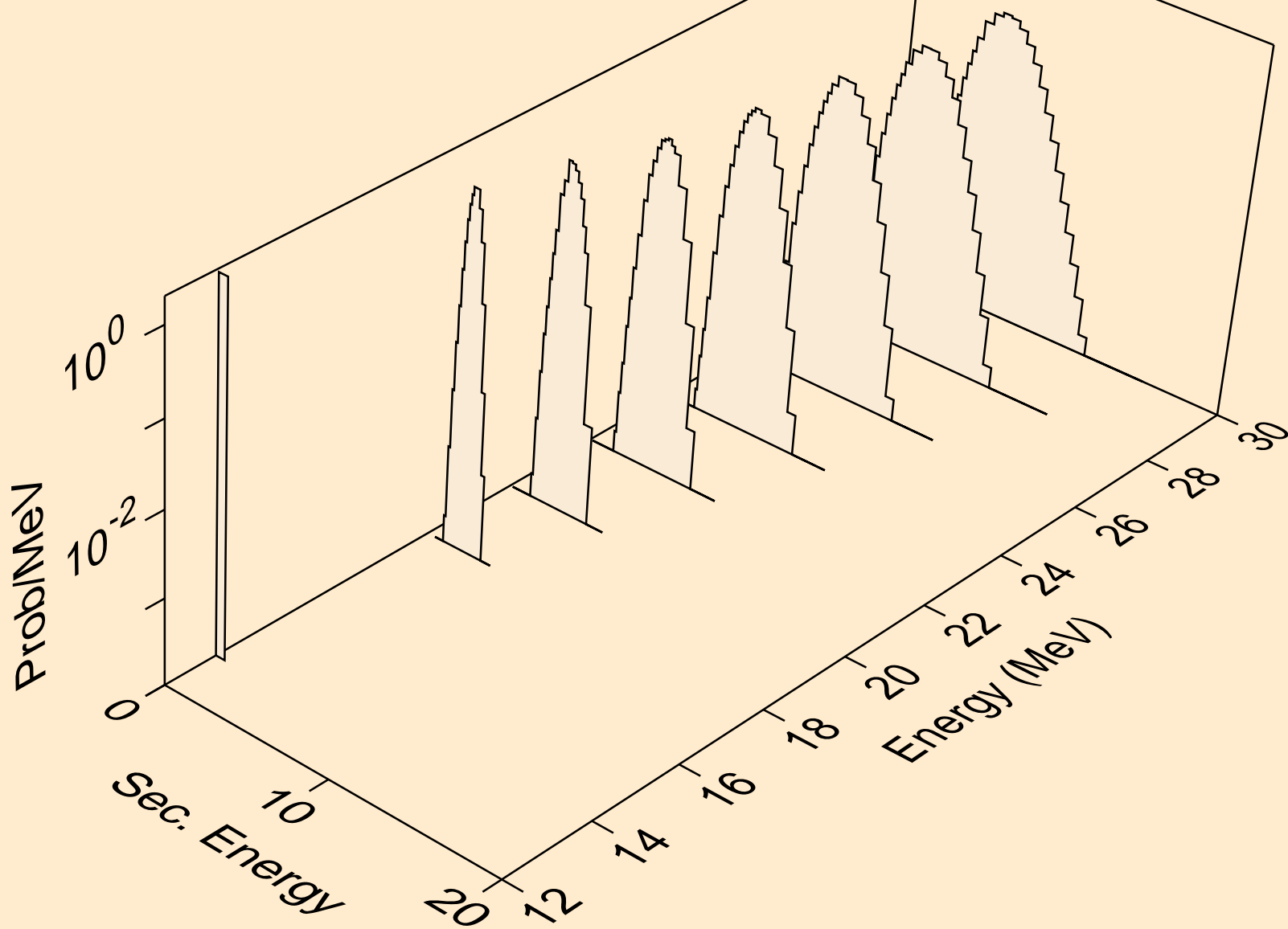
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protons from (n,2p)



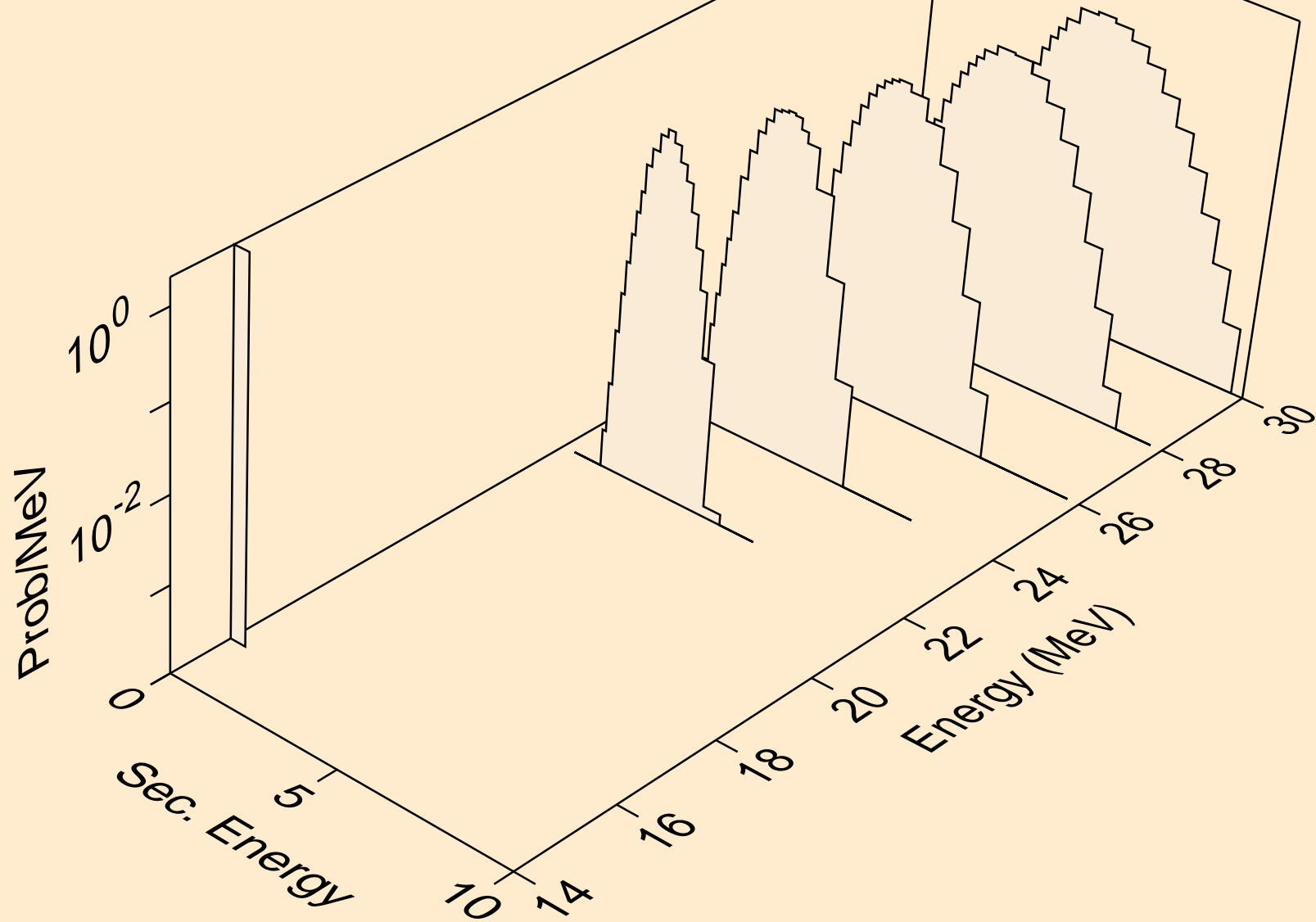
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protons from (n,pa)



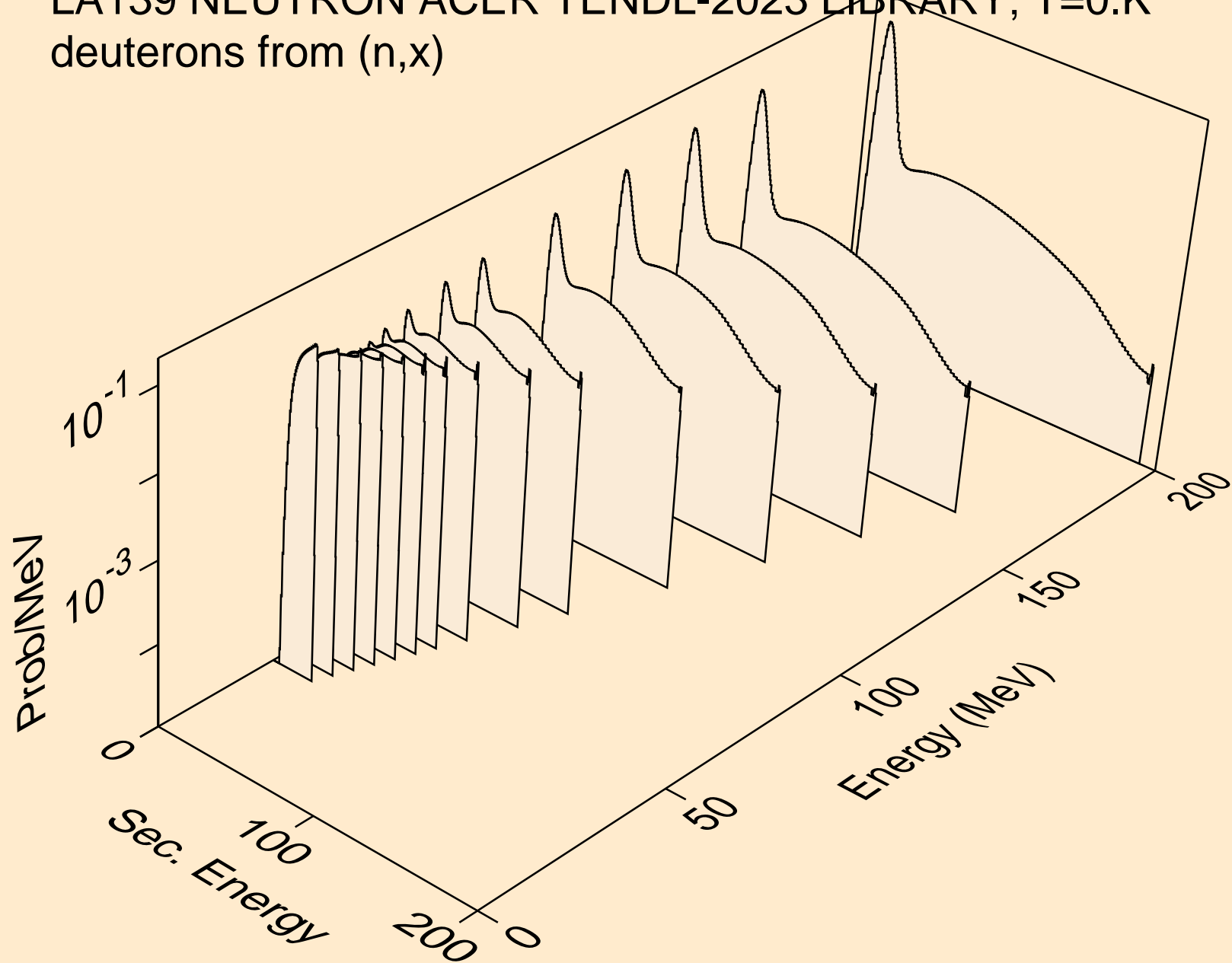
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protons from (n,pd)



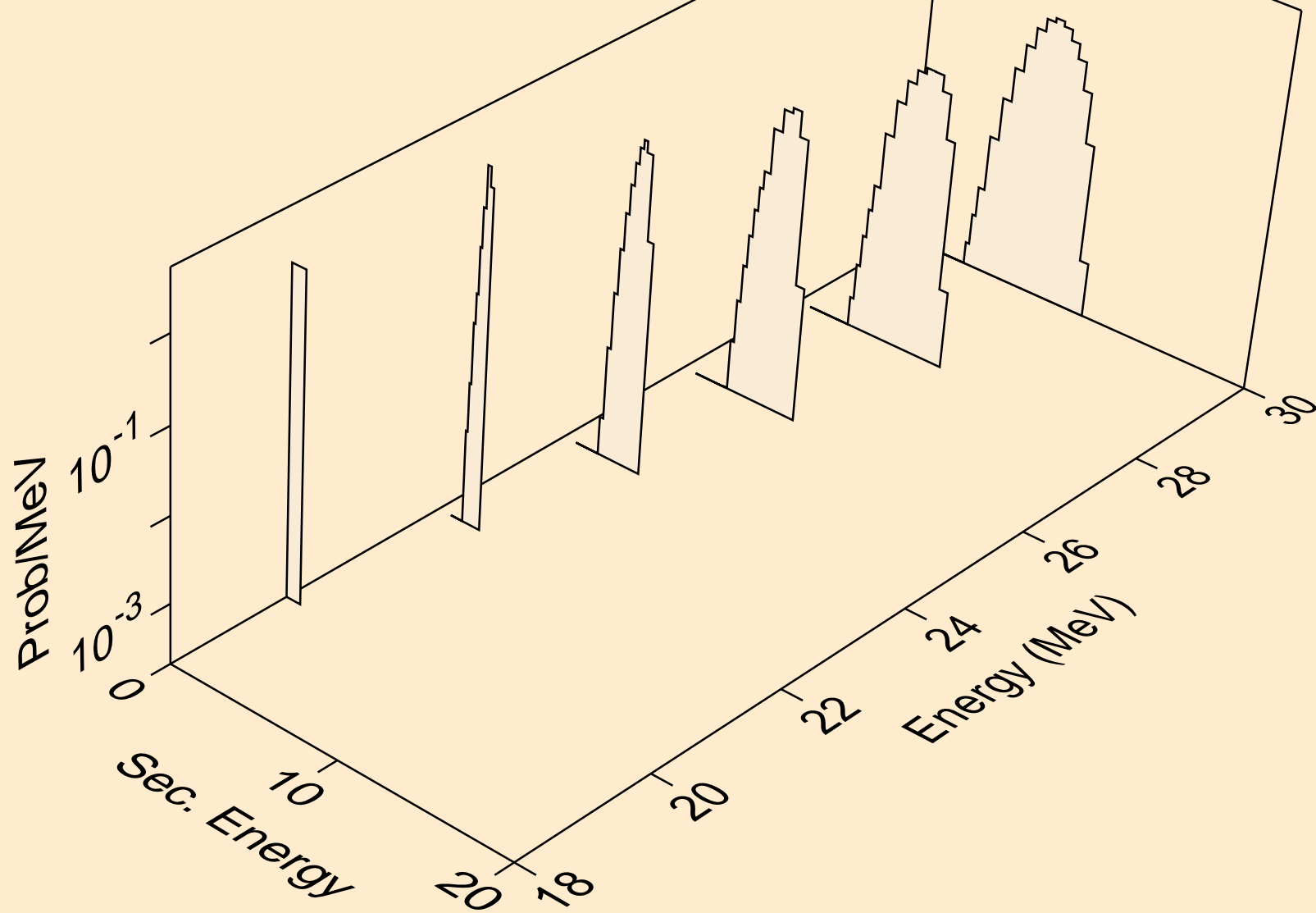
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protons from (n,pt)



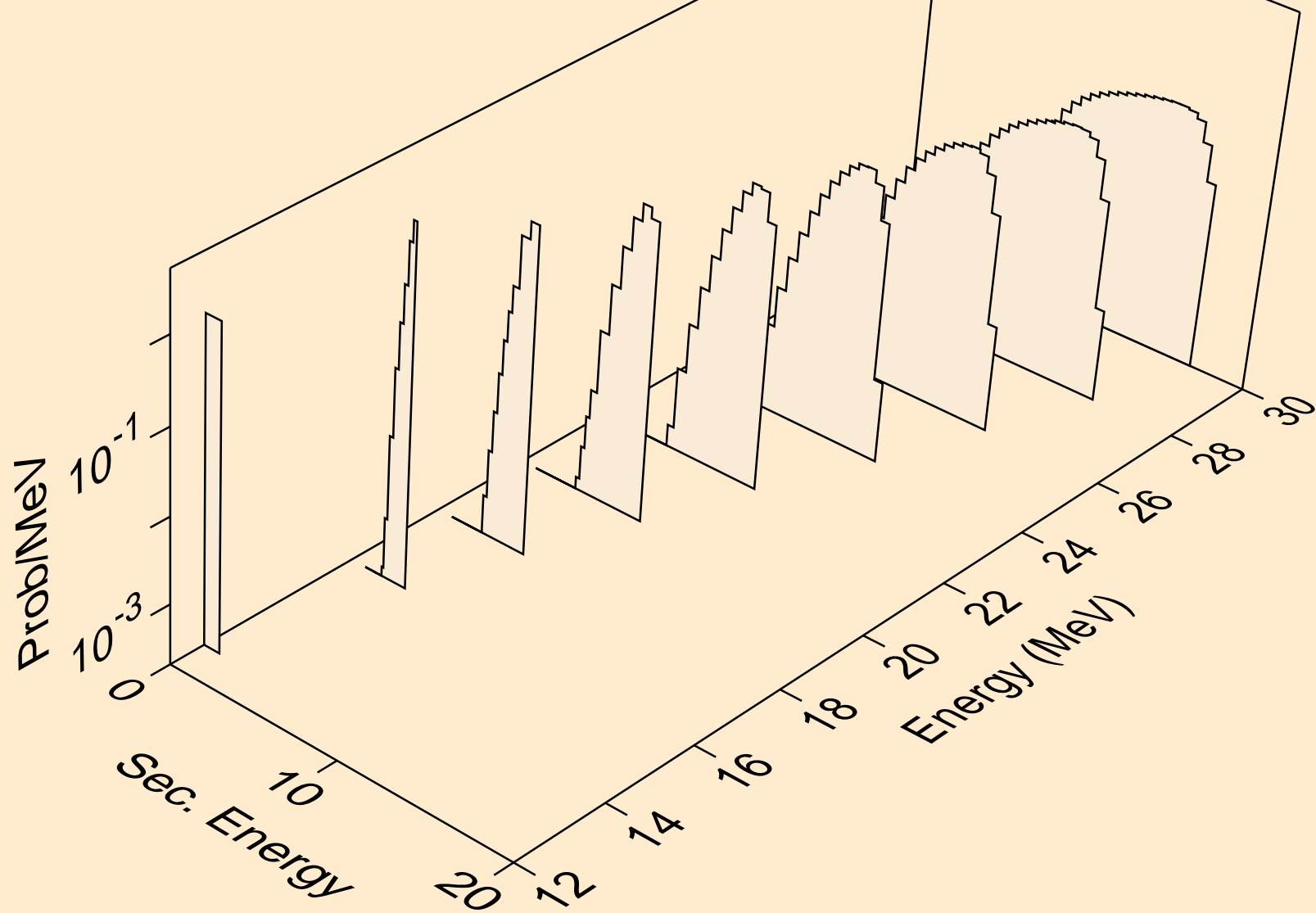
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deuterons from (n,x)



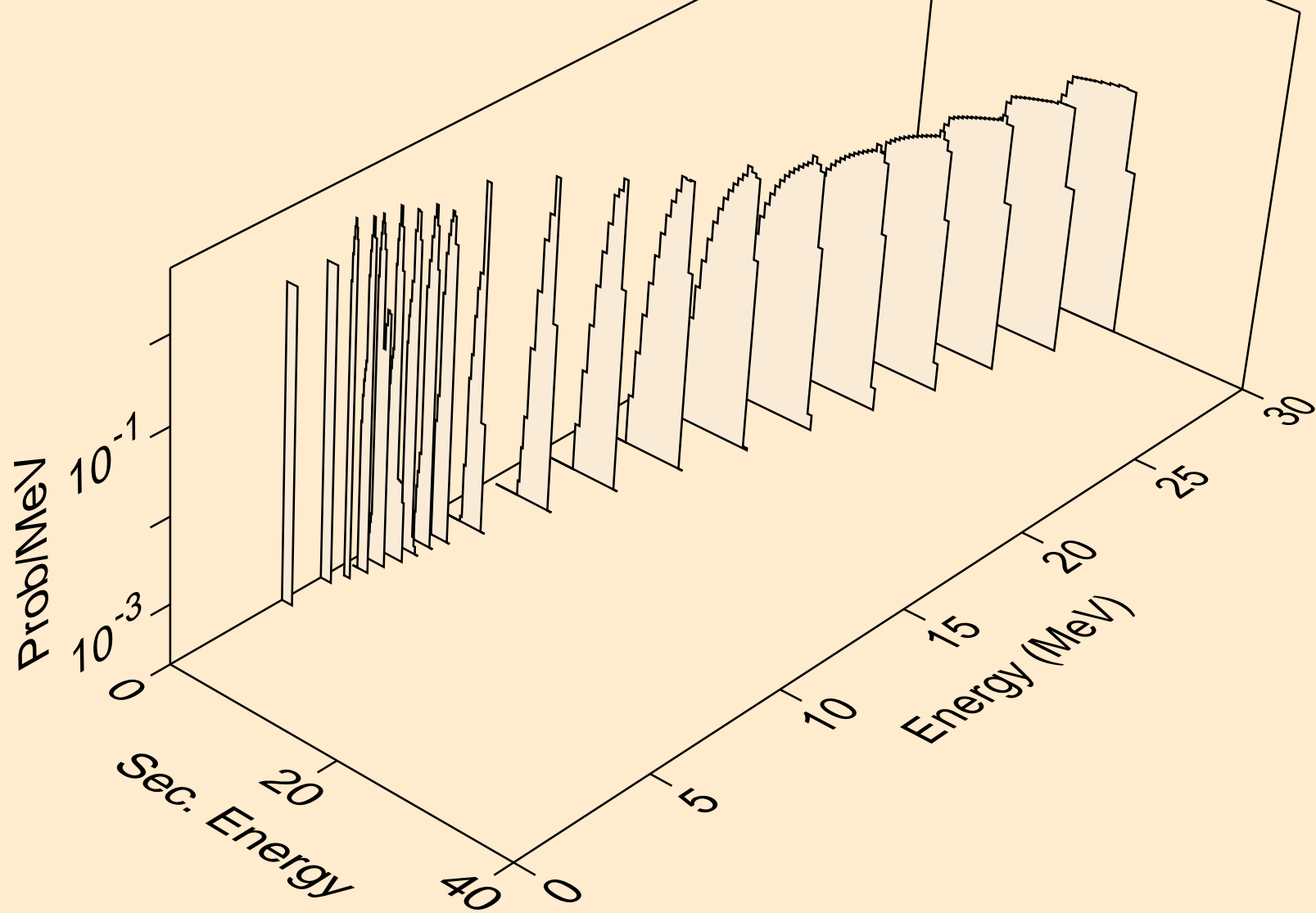
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deuterons from (n,2nd)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d

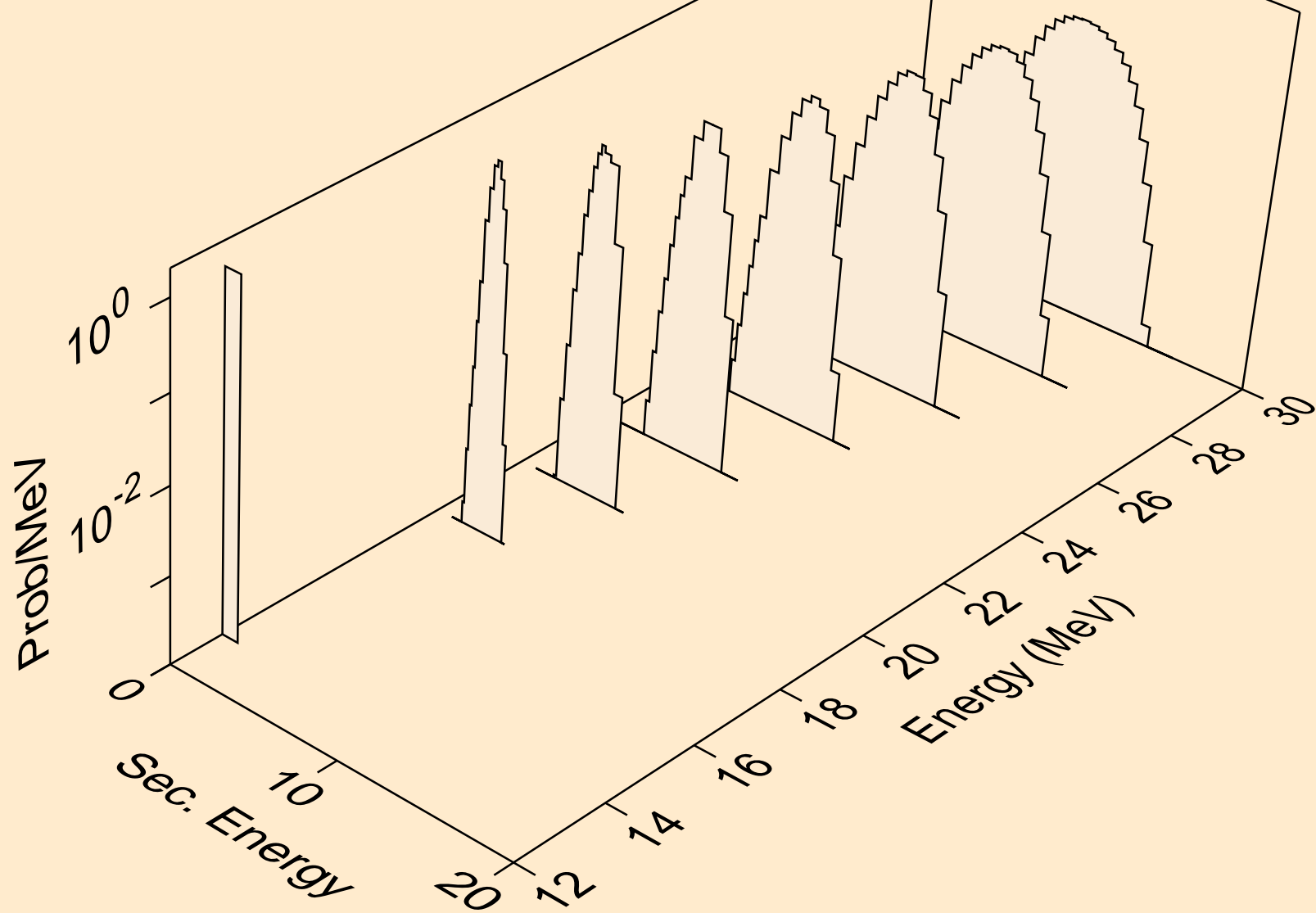


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deuterons from (n,d)

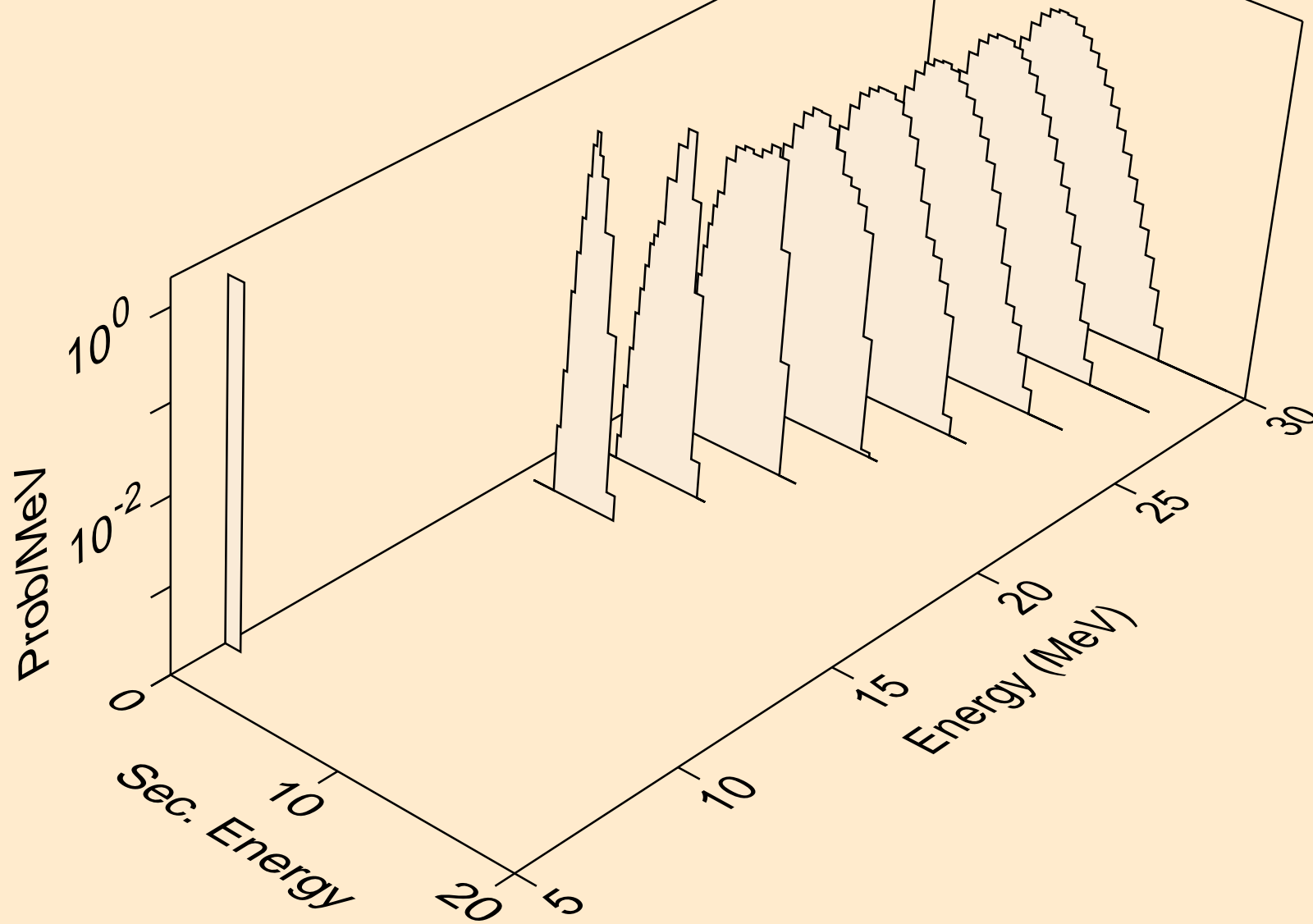




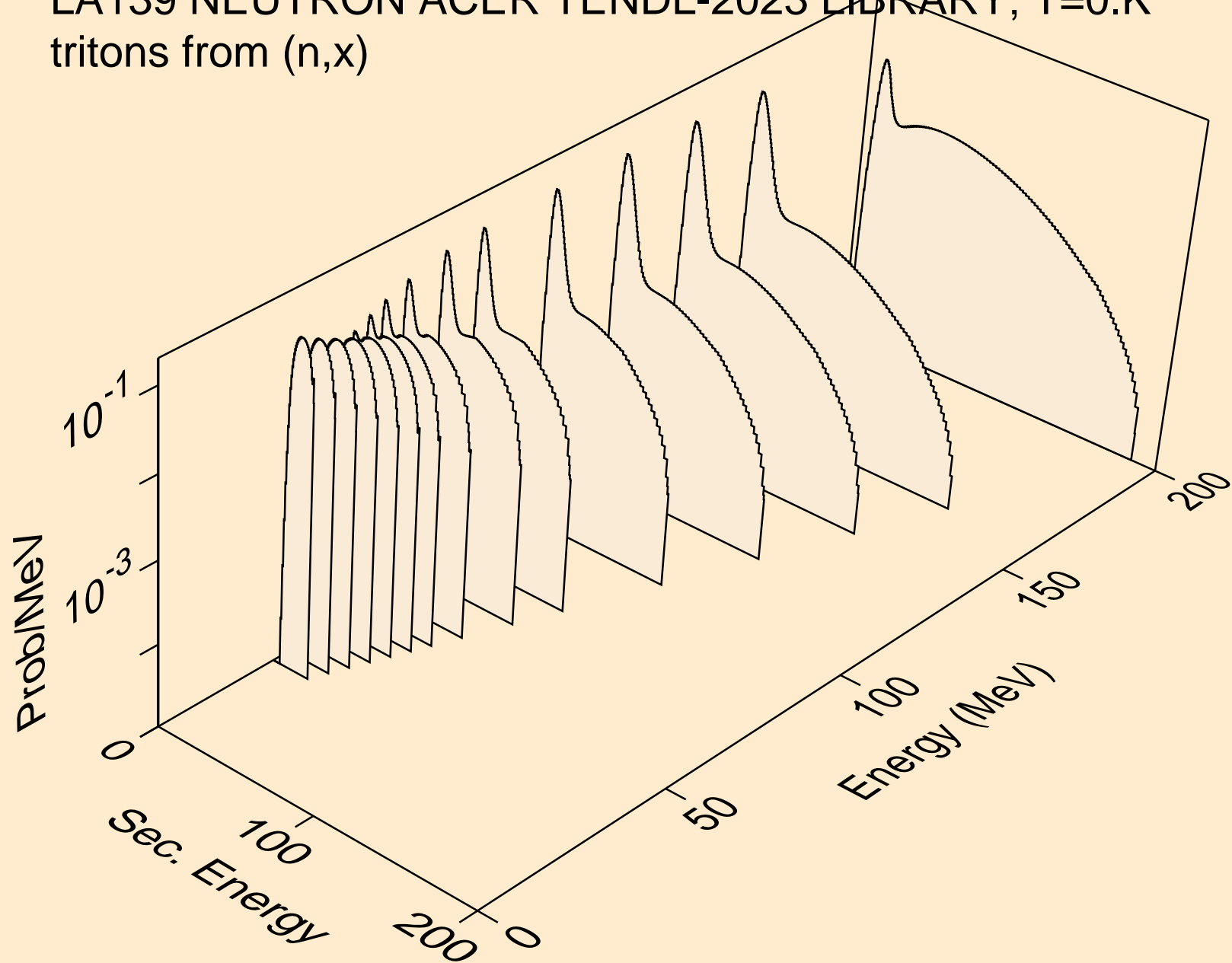
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deuterons from (n,pd)



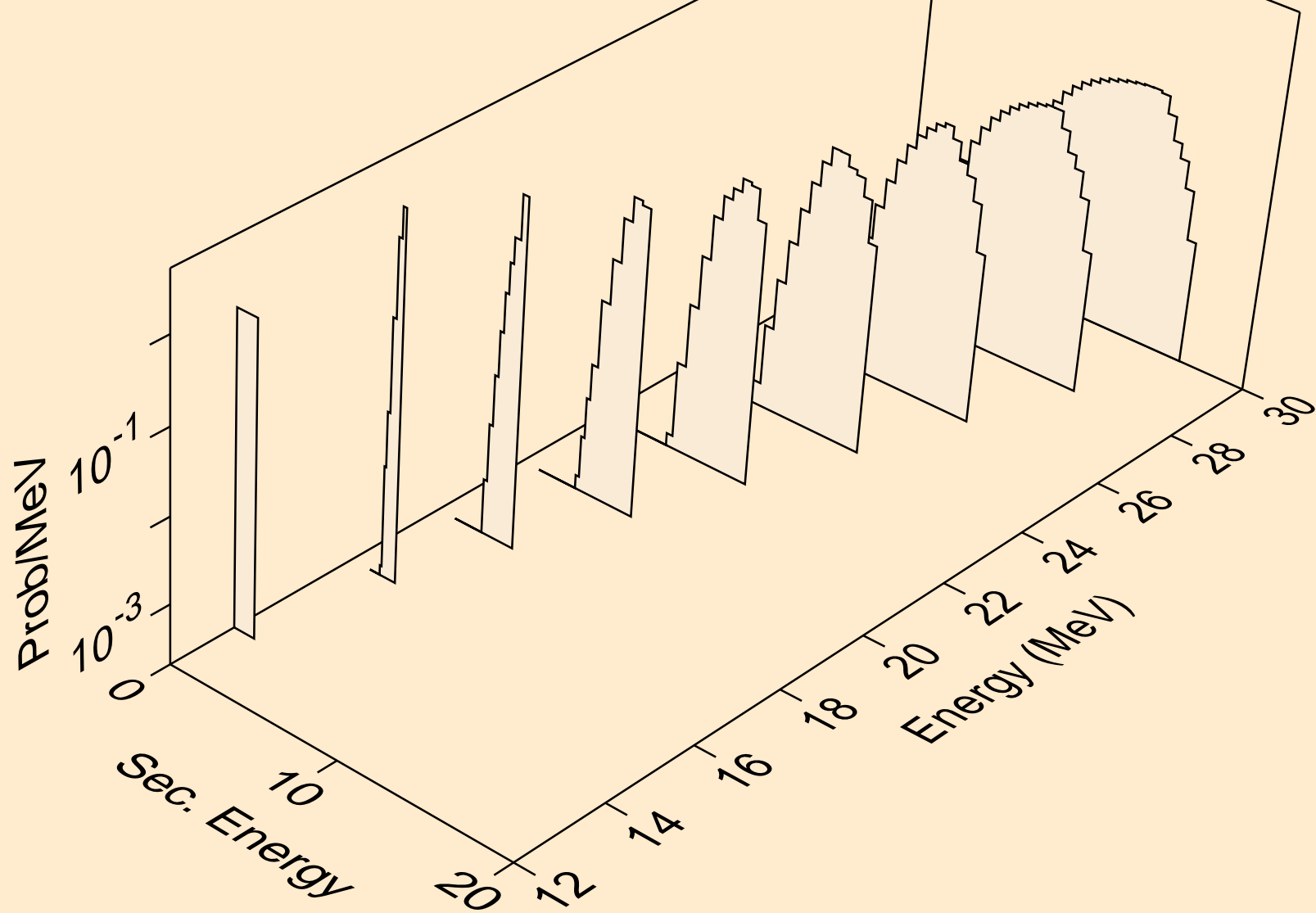
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deuterons from (n,da)



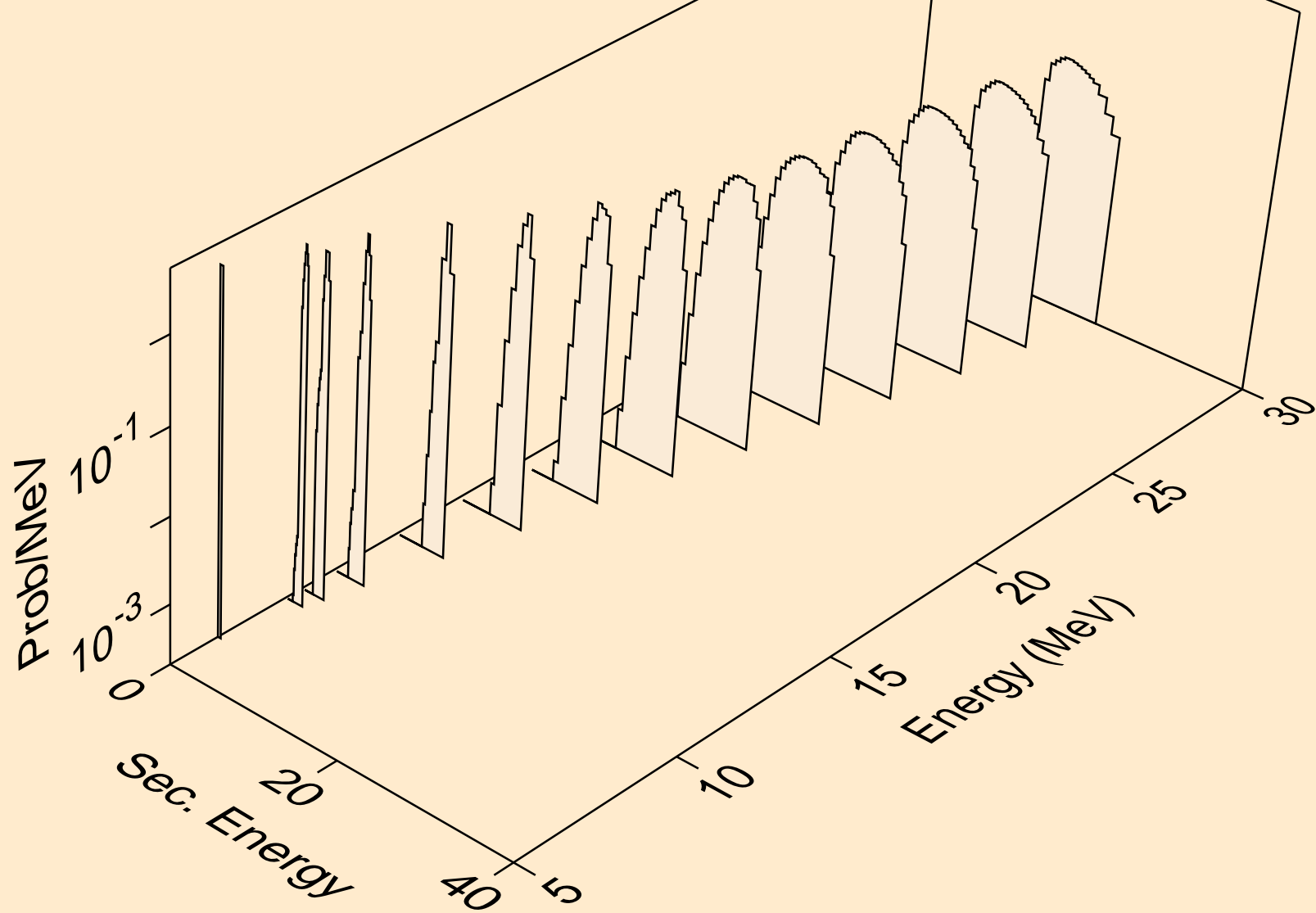
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tritons from (n,x)



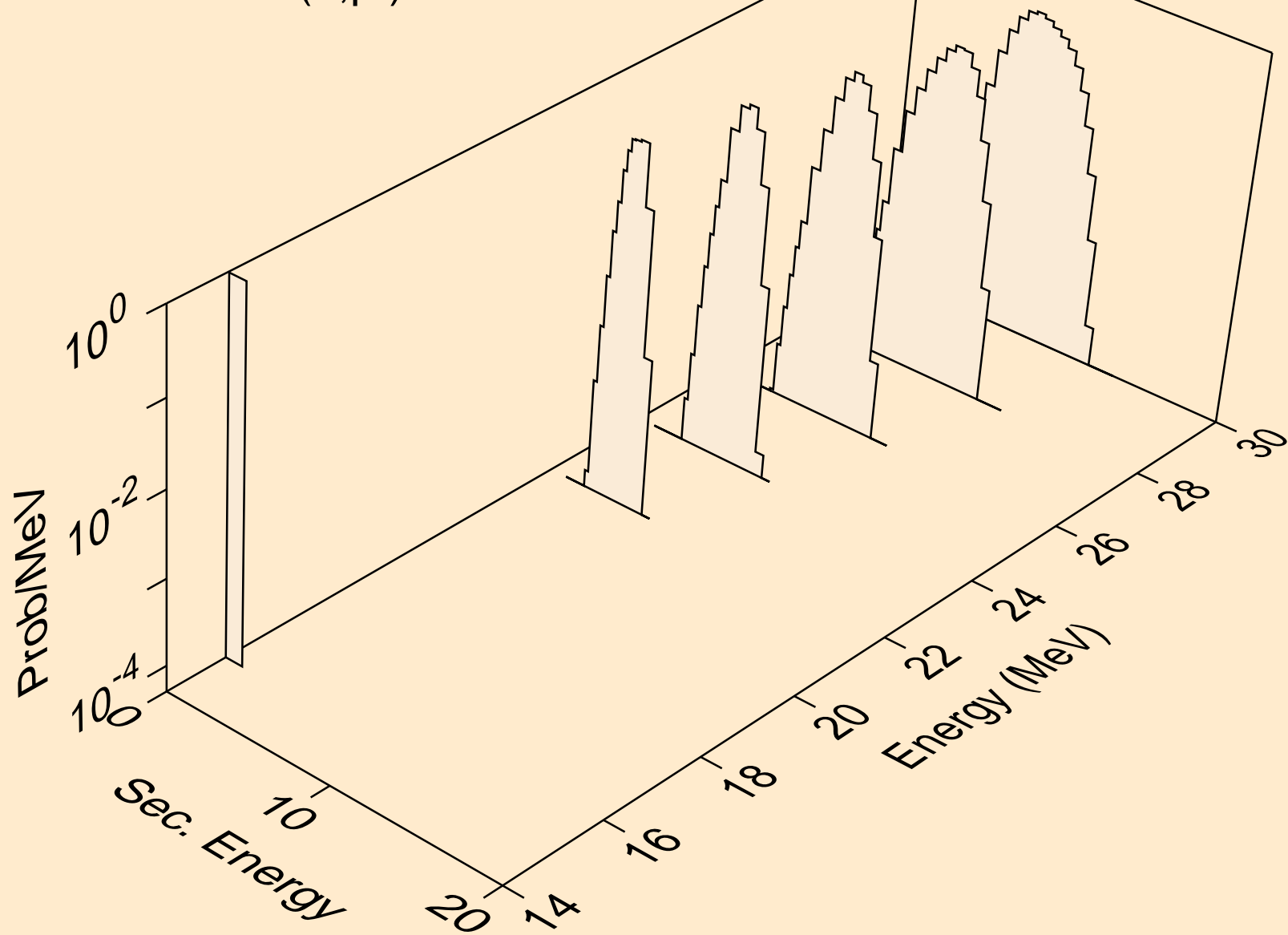
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tritons from (n,n\*)t



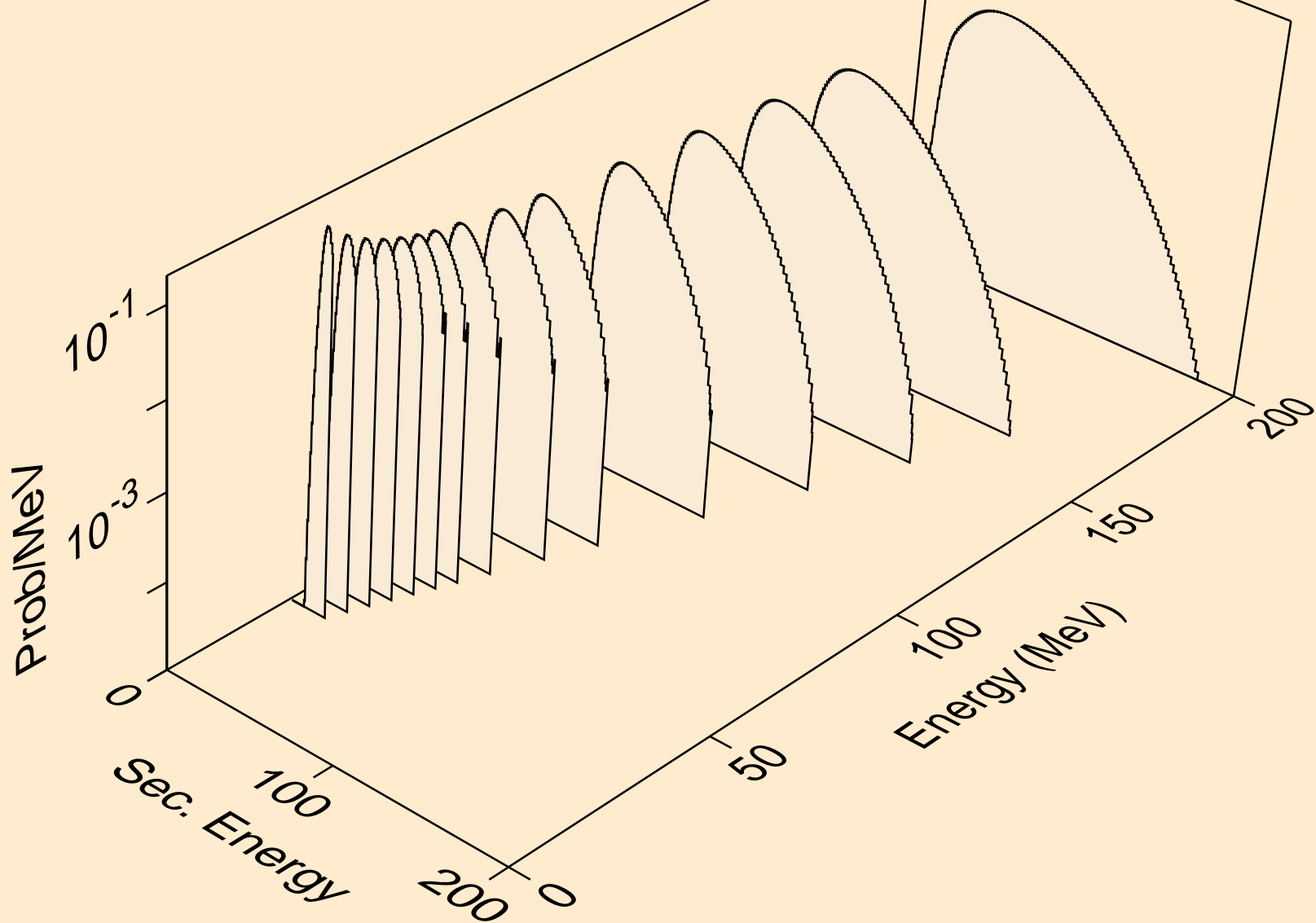
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tritons from (n,t)



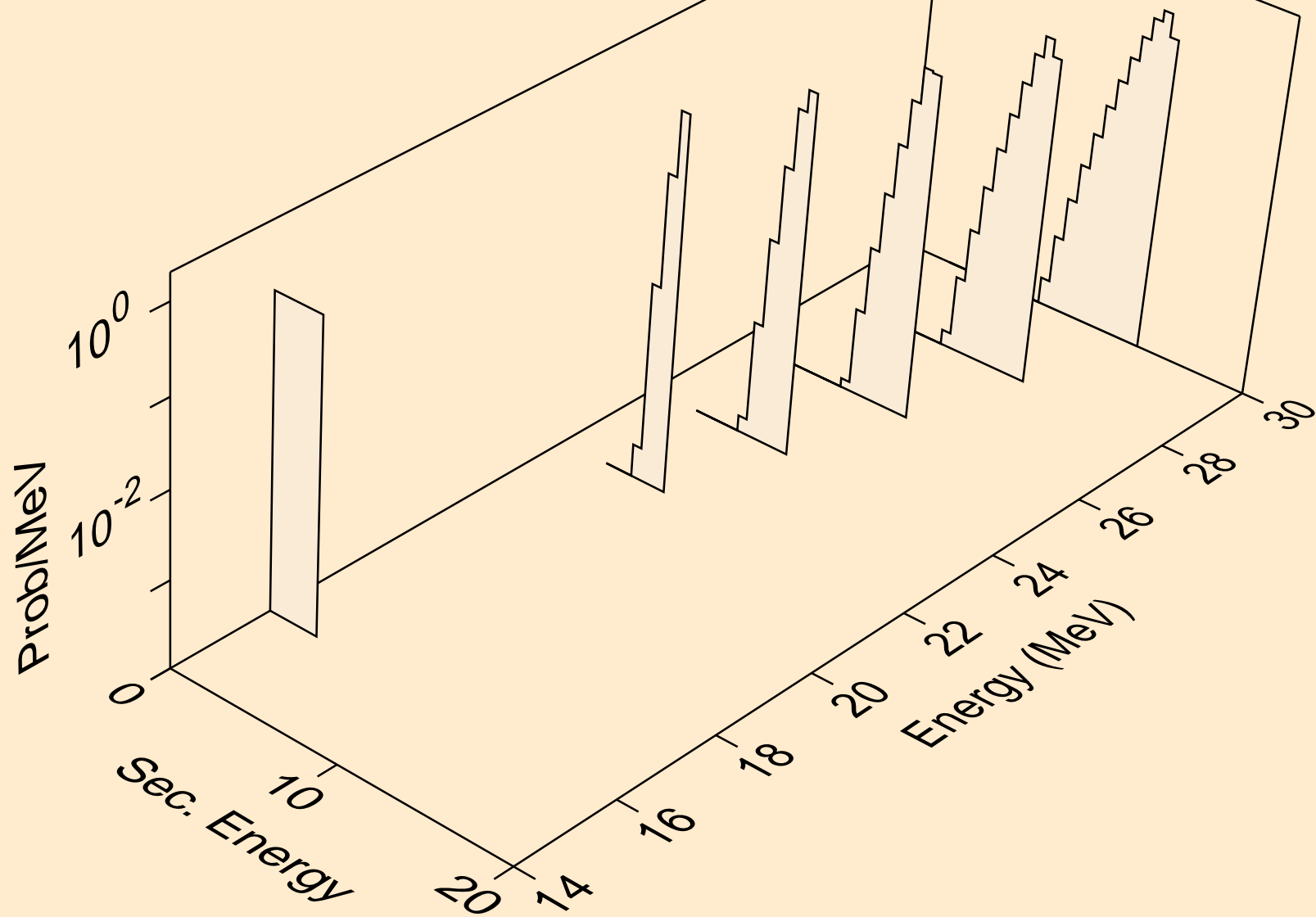
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)

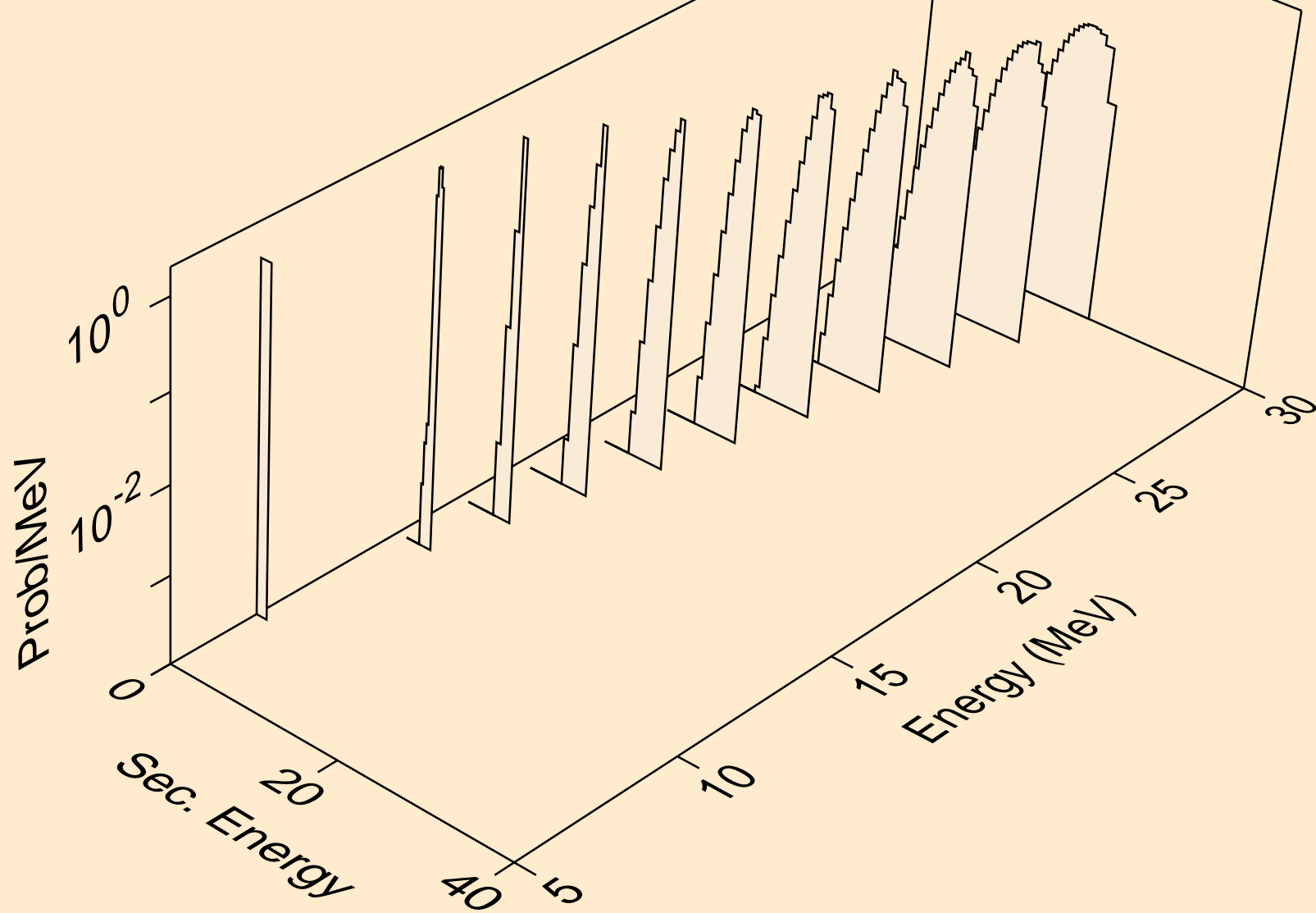


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he3s from (n,n\*)he3

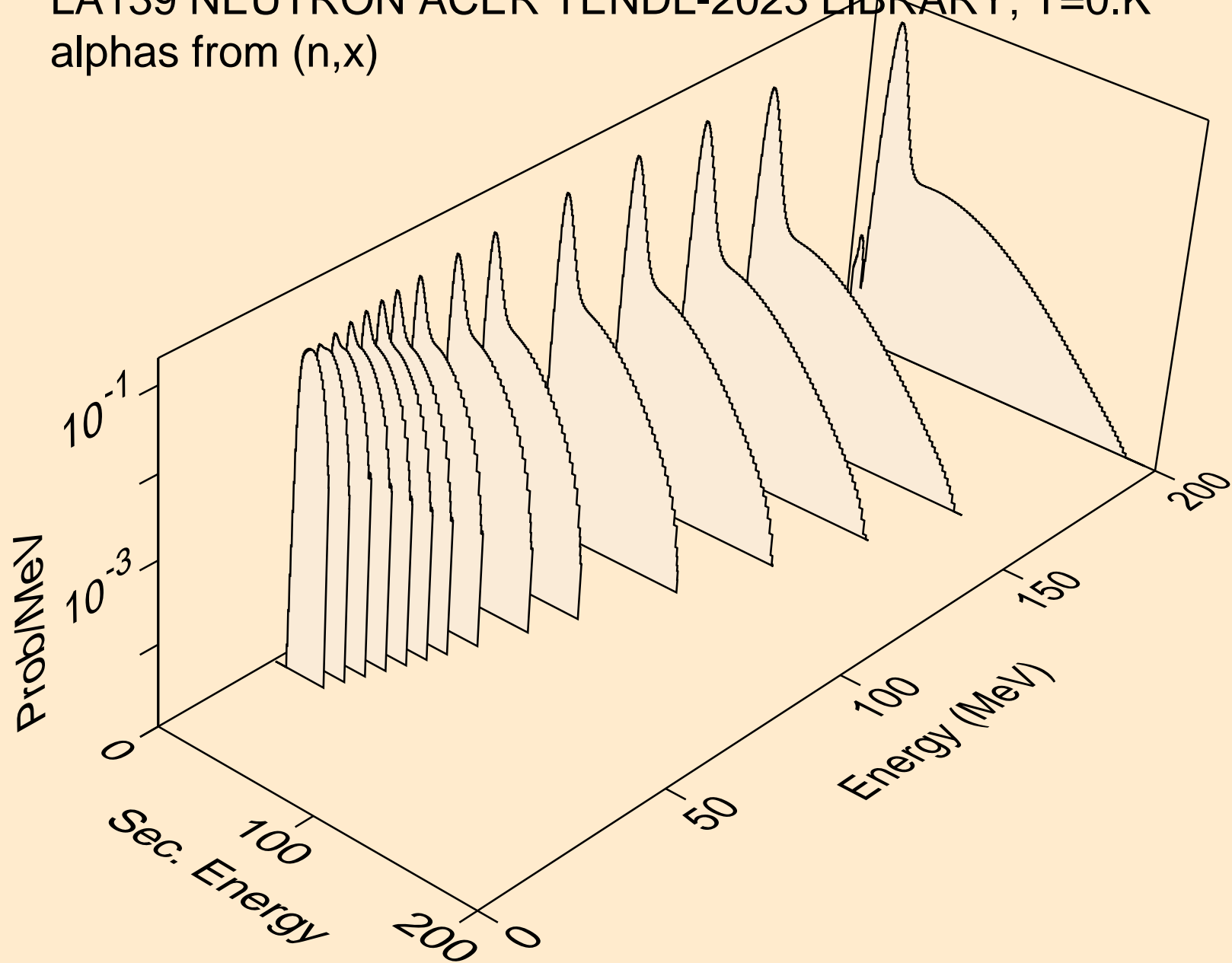




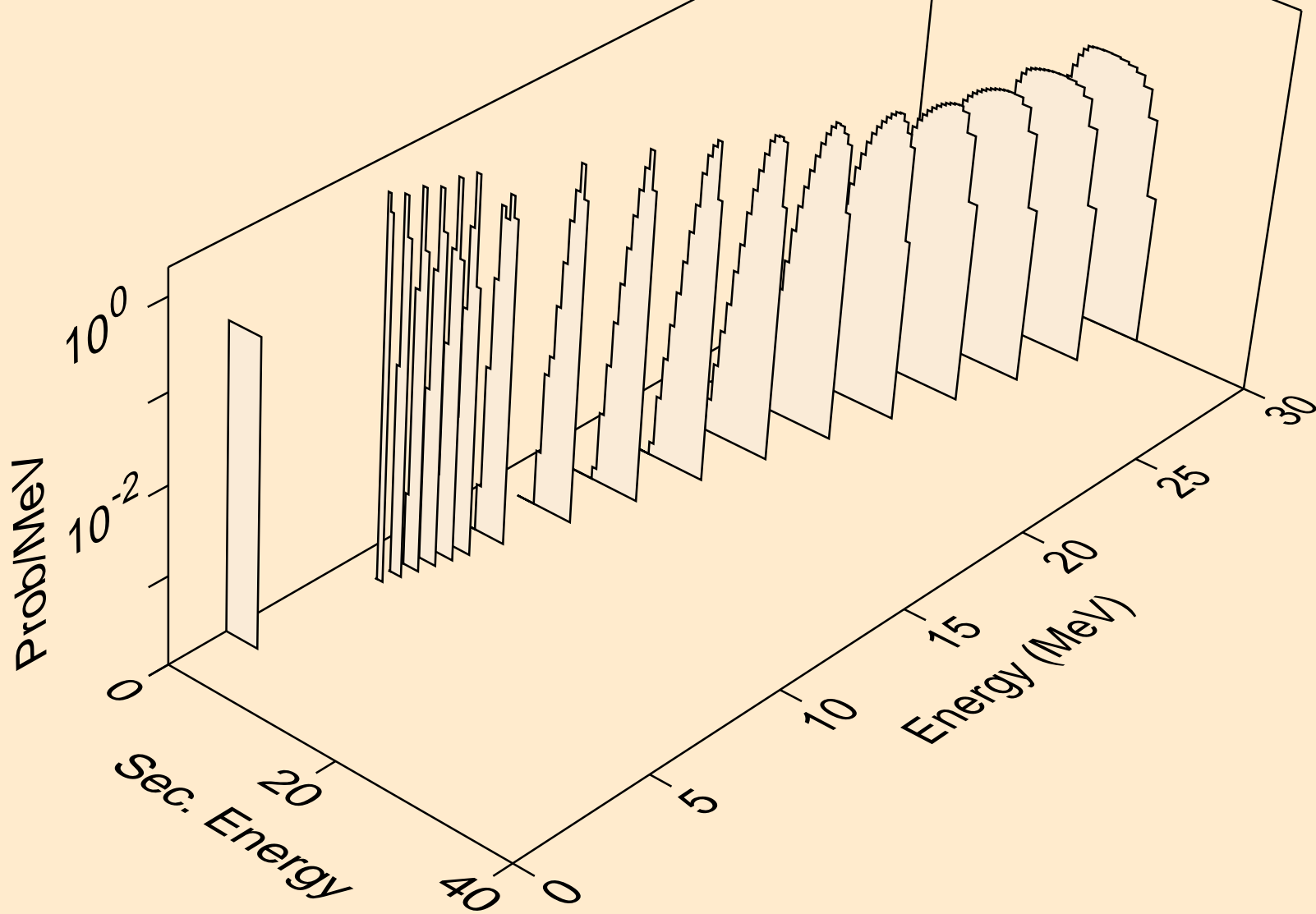
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he3s from (n,he3)



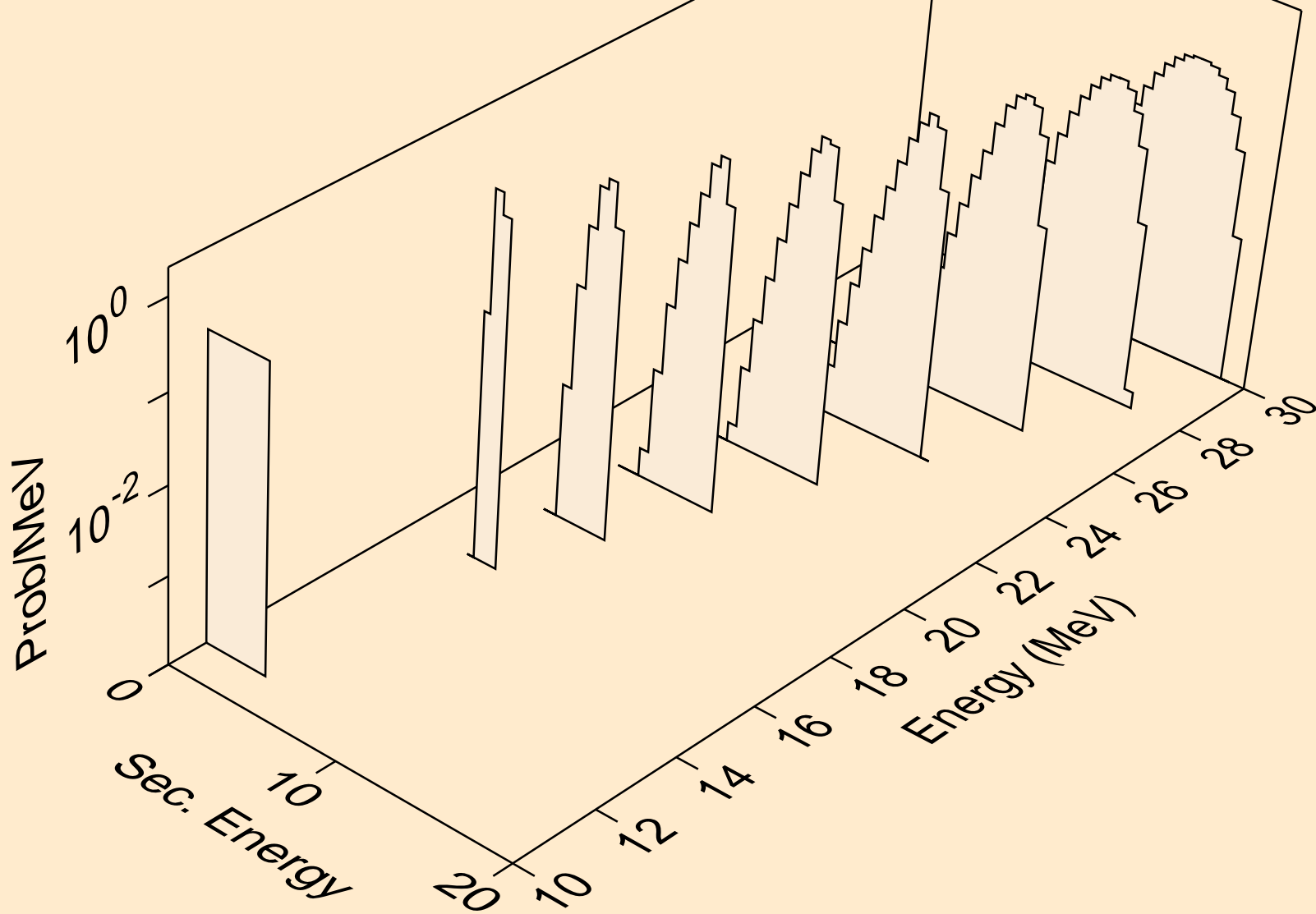
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alphas from (n,x)



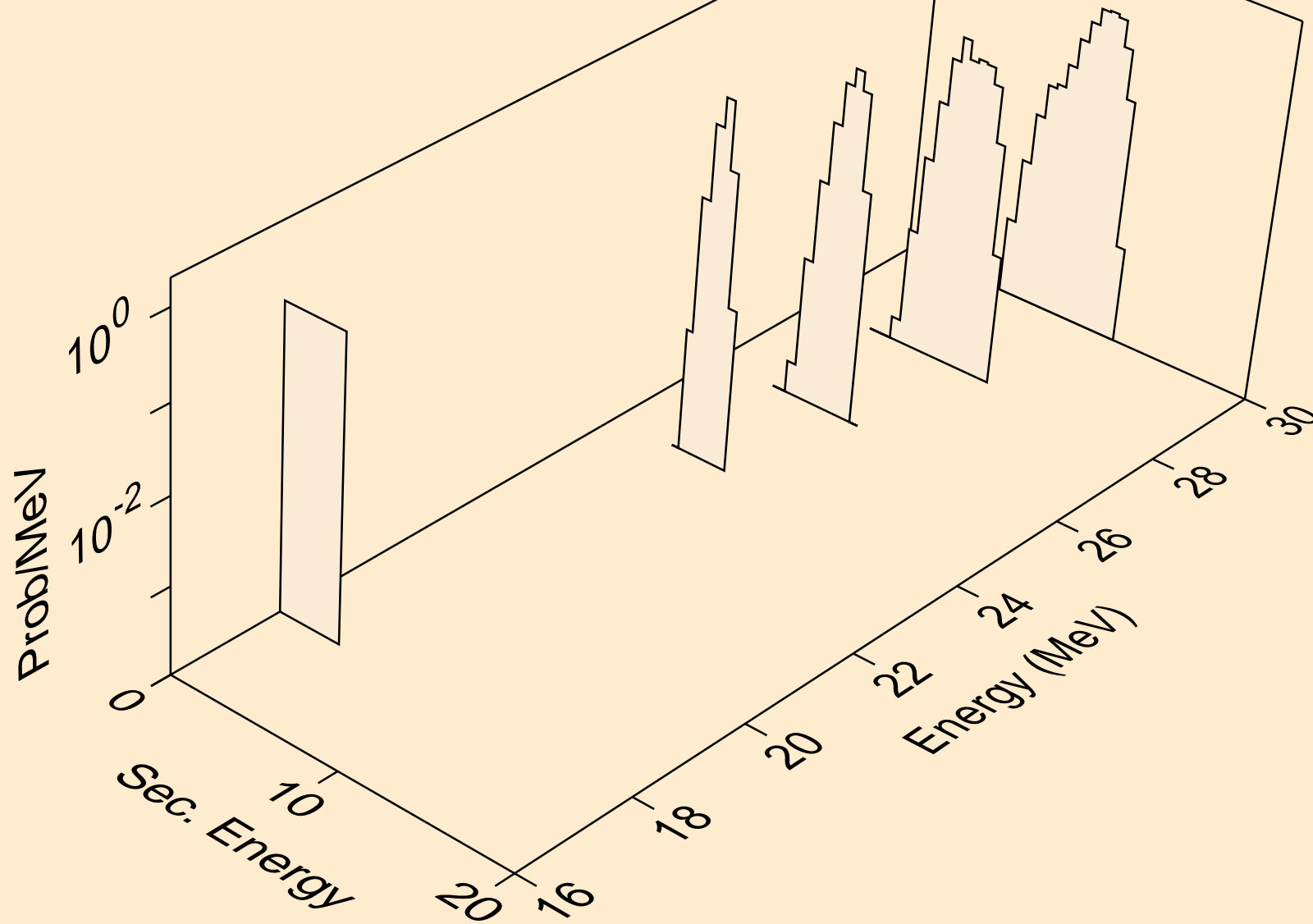
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alphas from (n,n\*)a



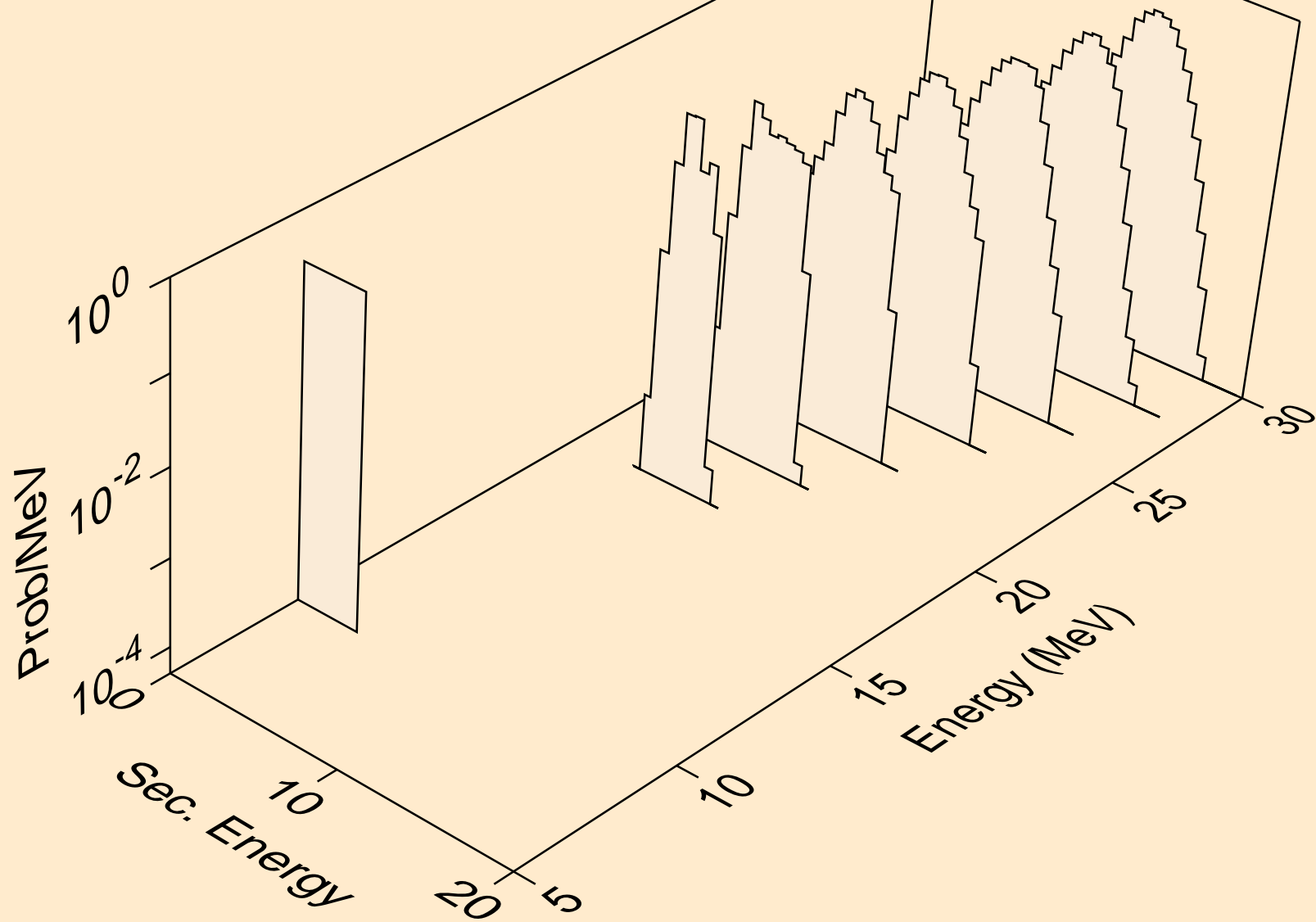
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alphas from (n,2n)a



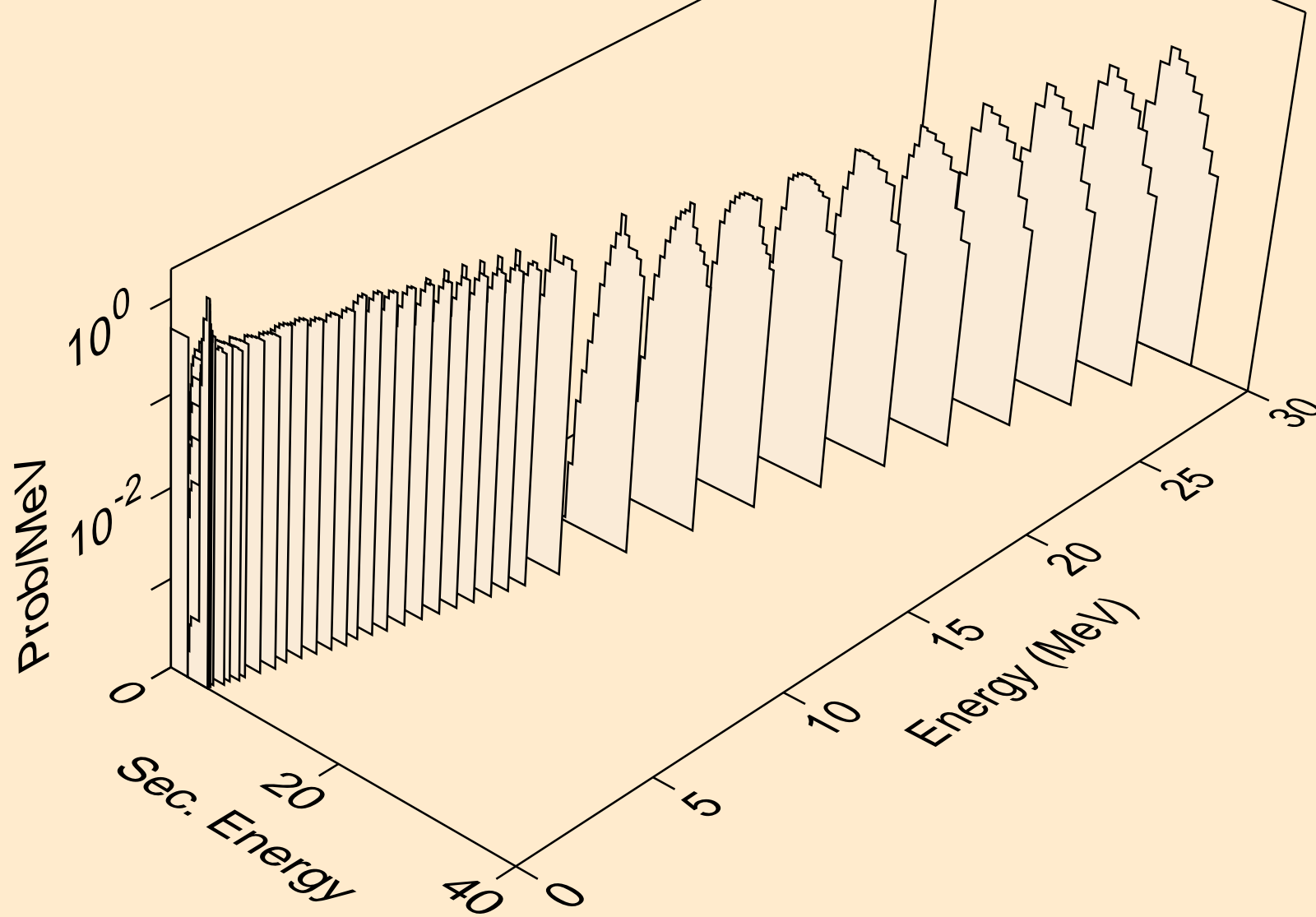
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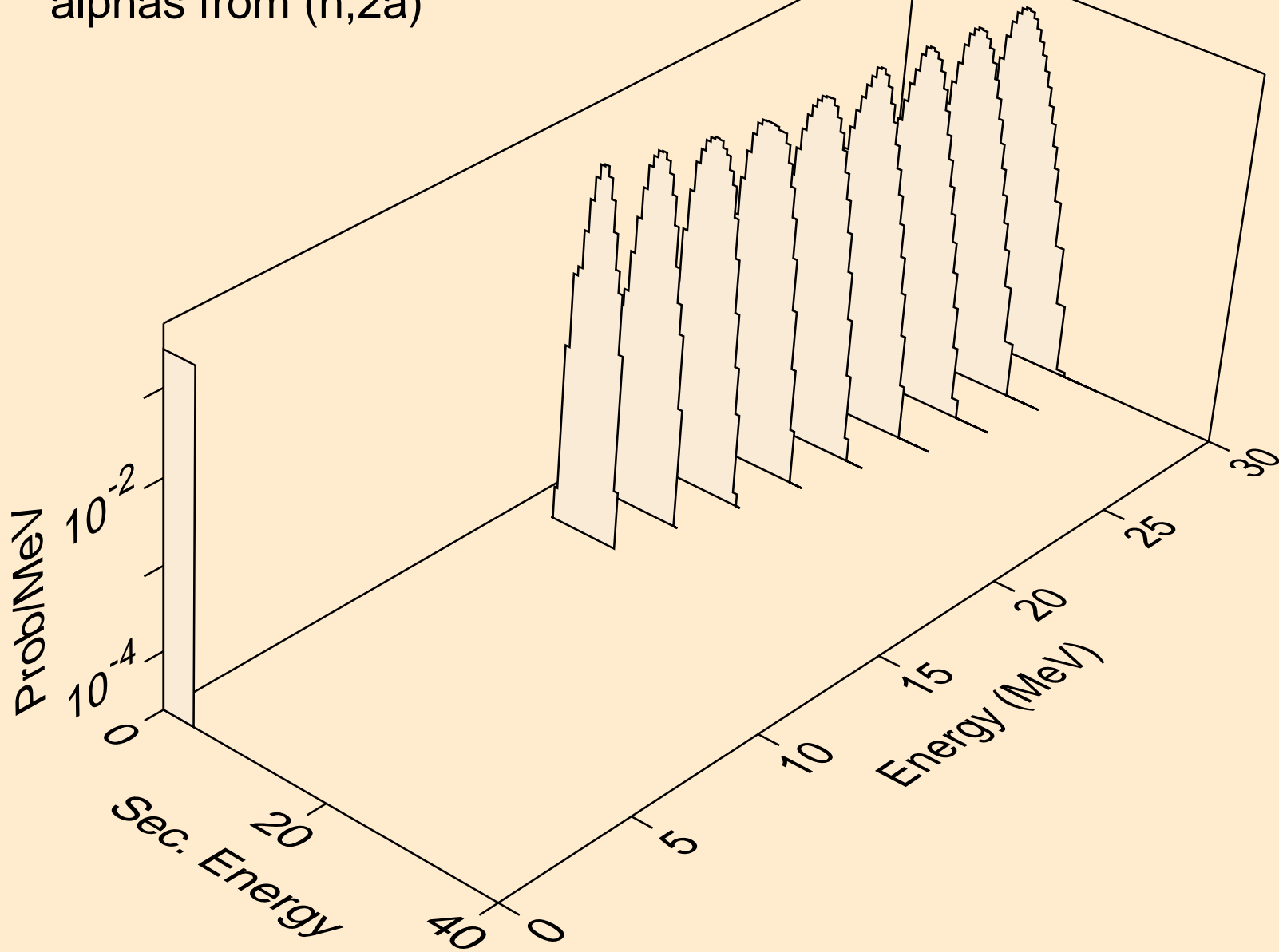
LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

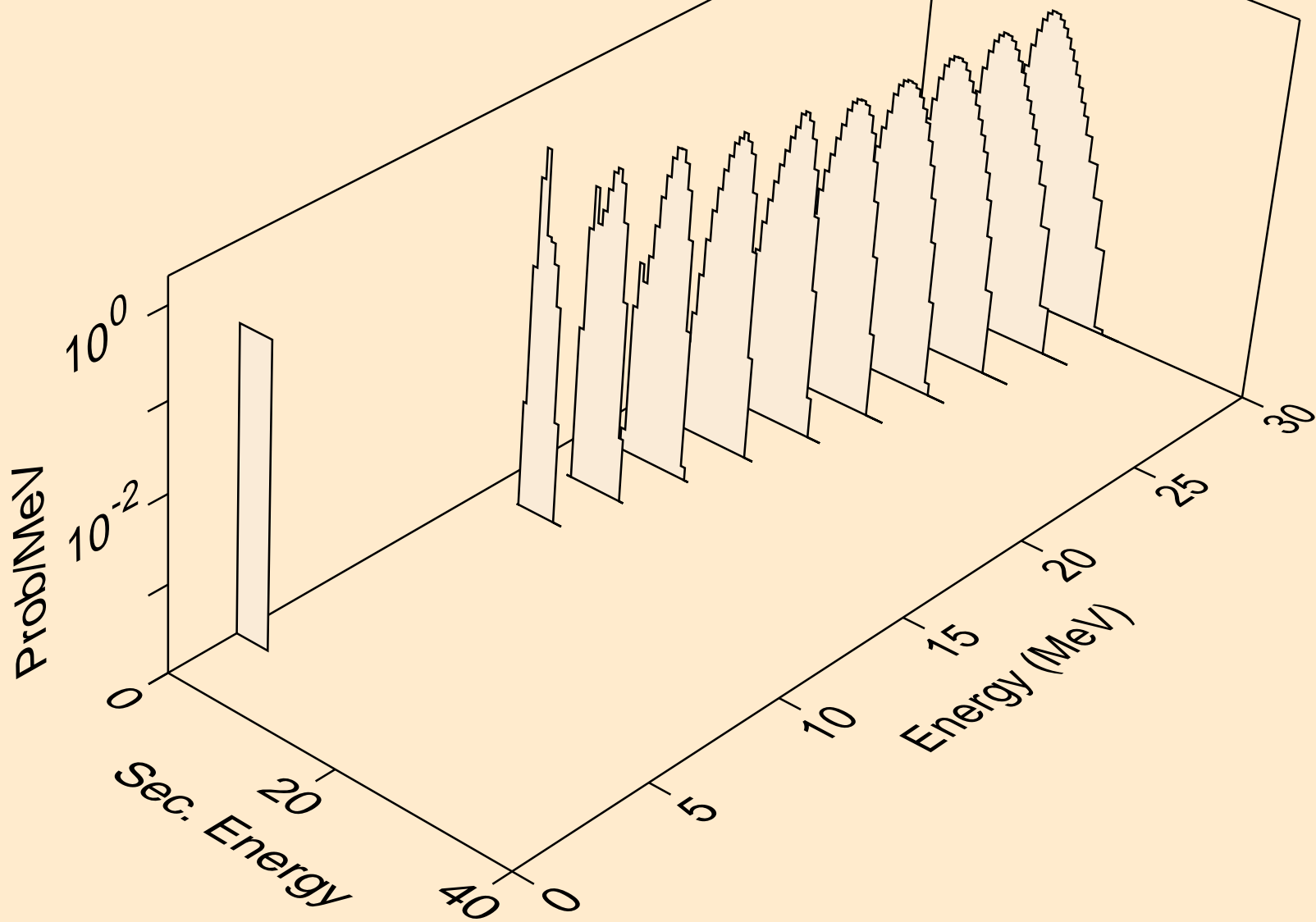


LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)





LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



LA139 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

