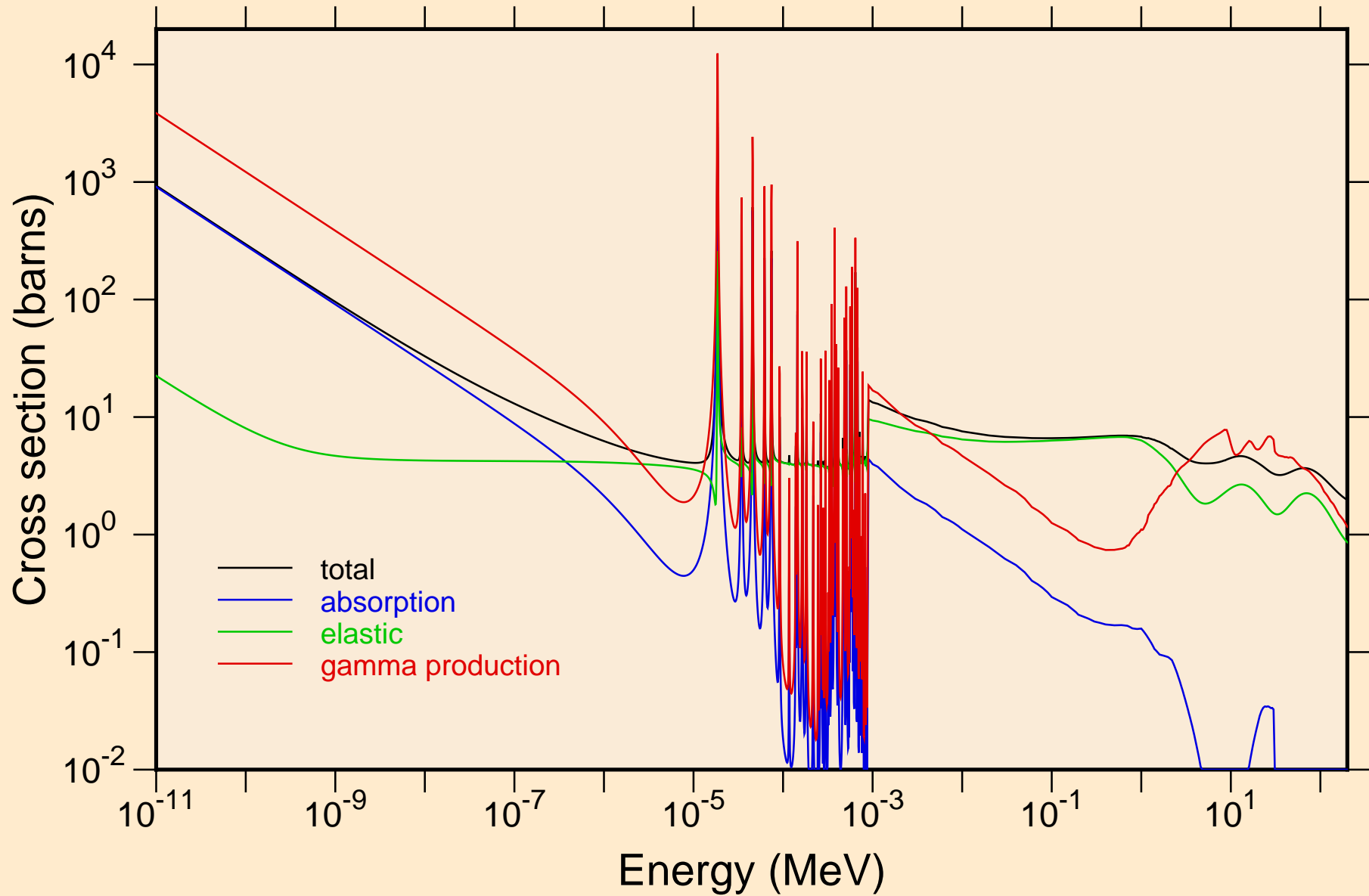
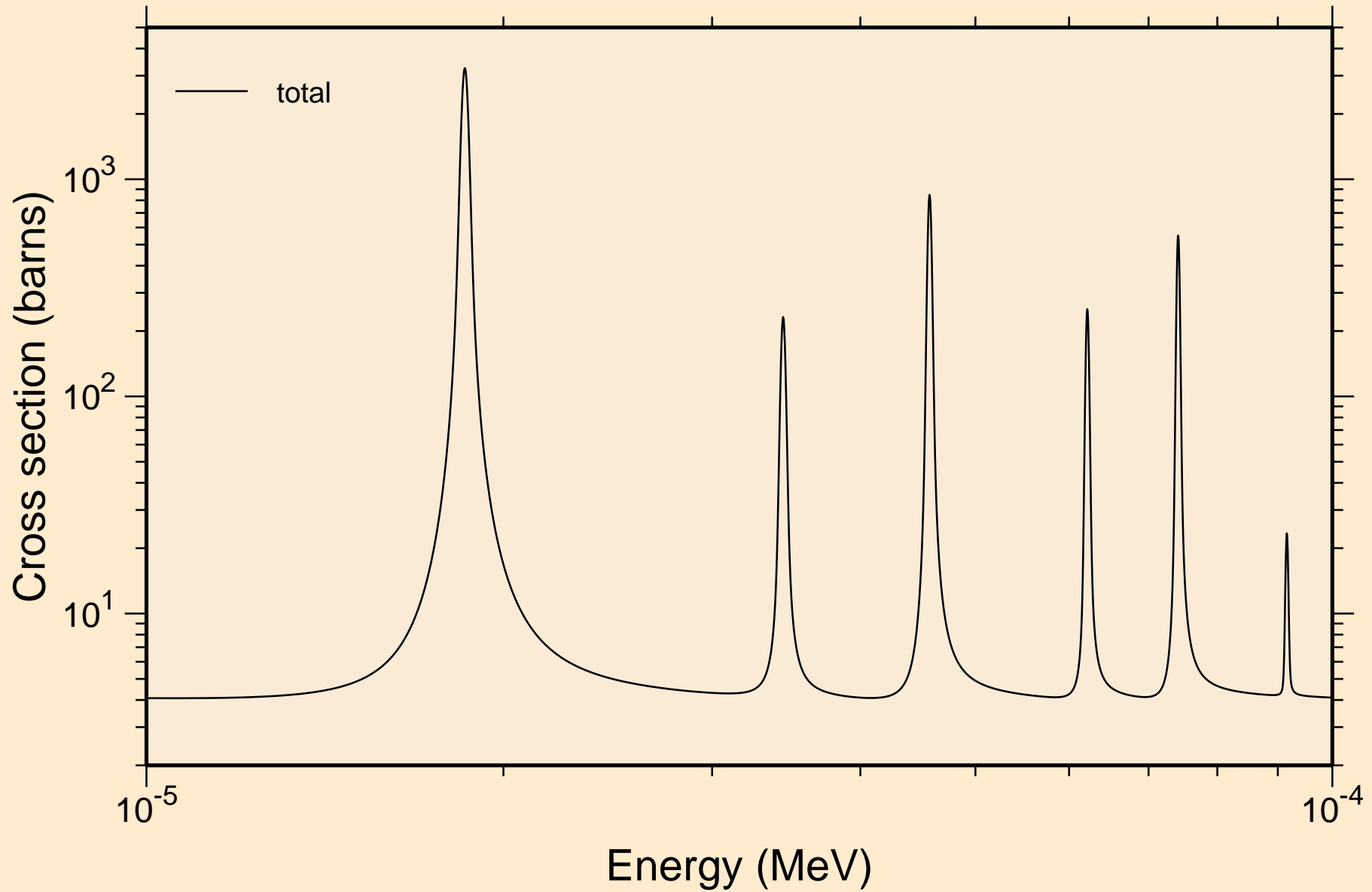


# IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

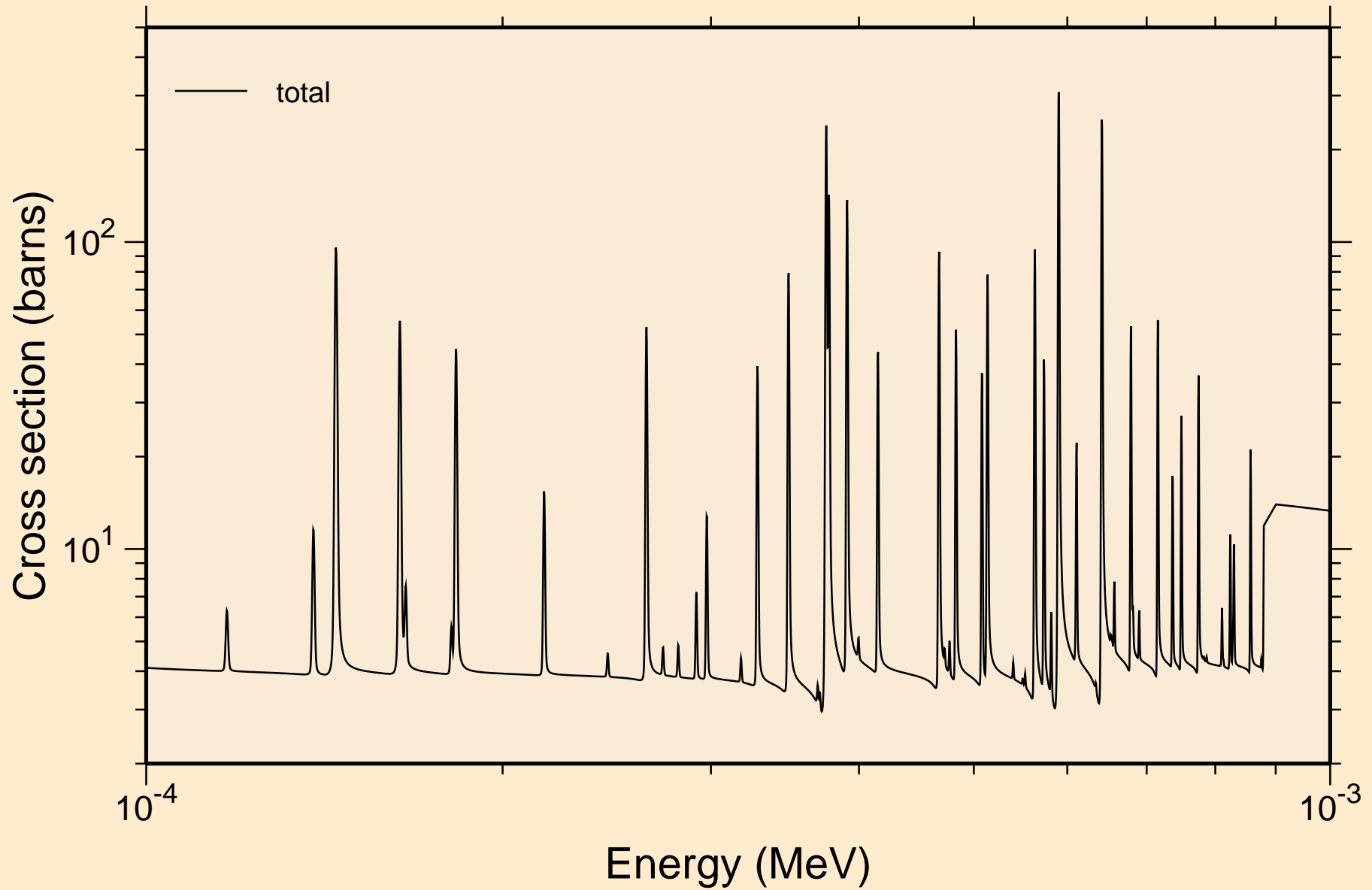
## Principal cross sections



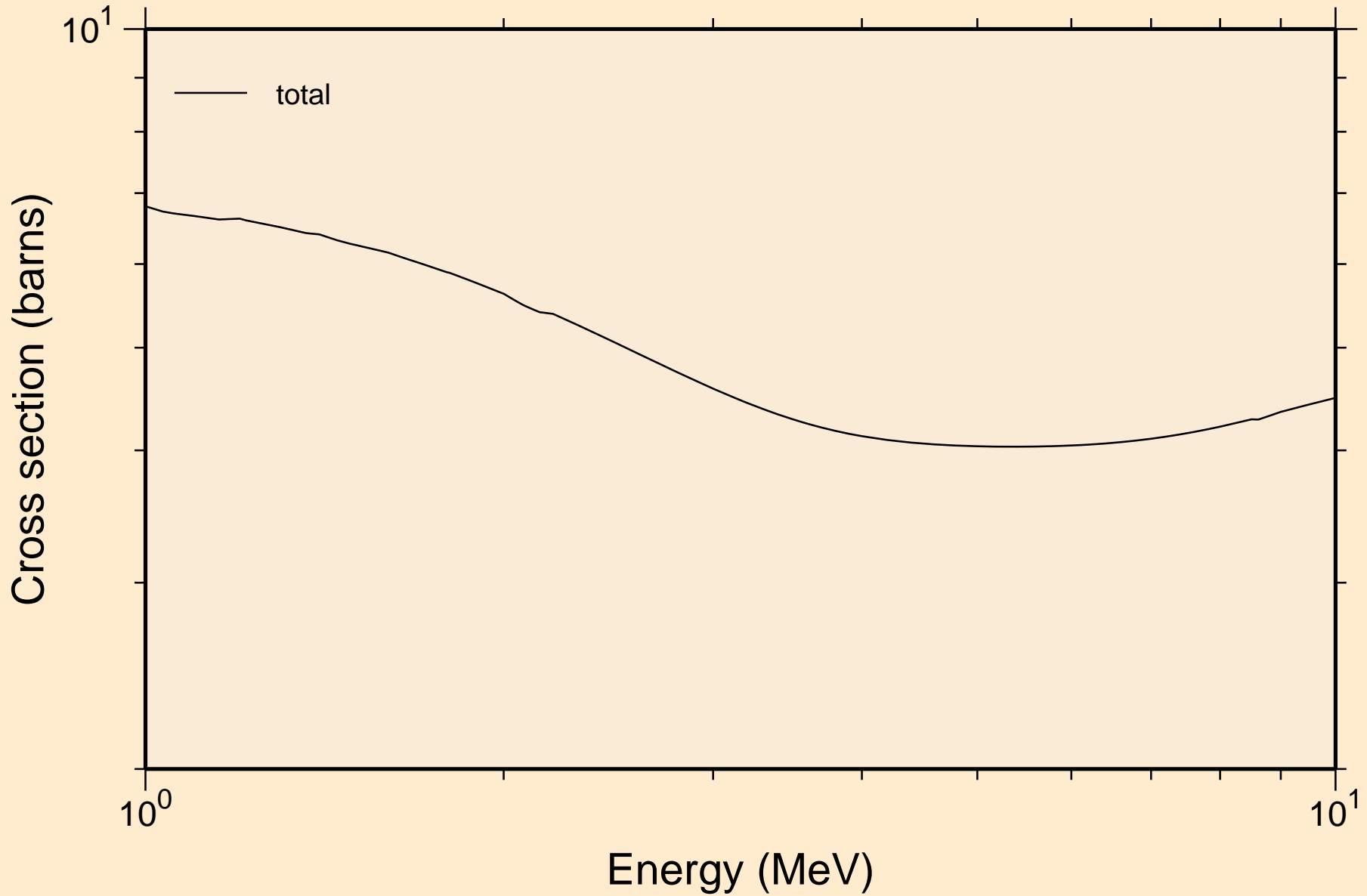
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



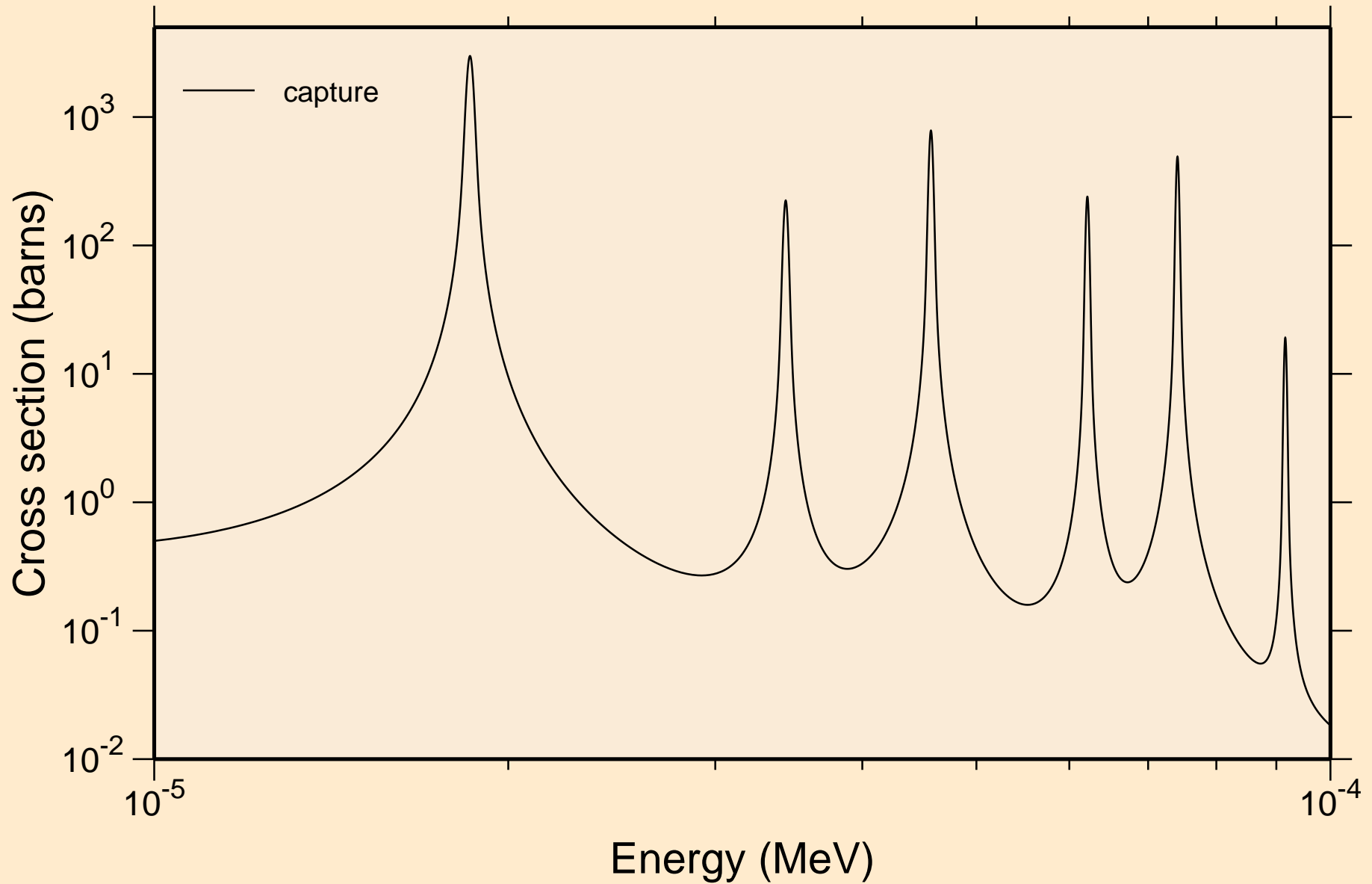
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



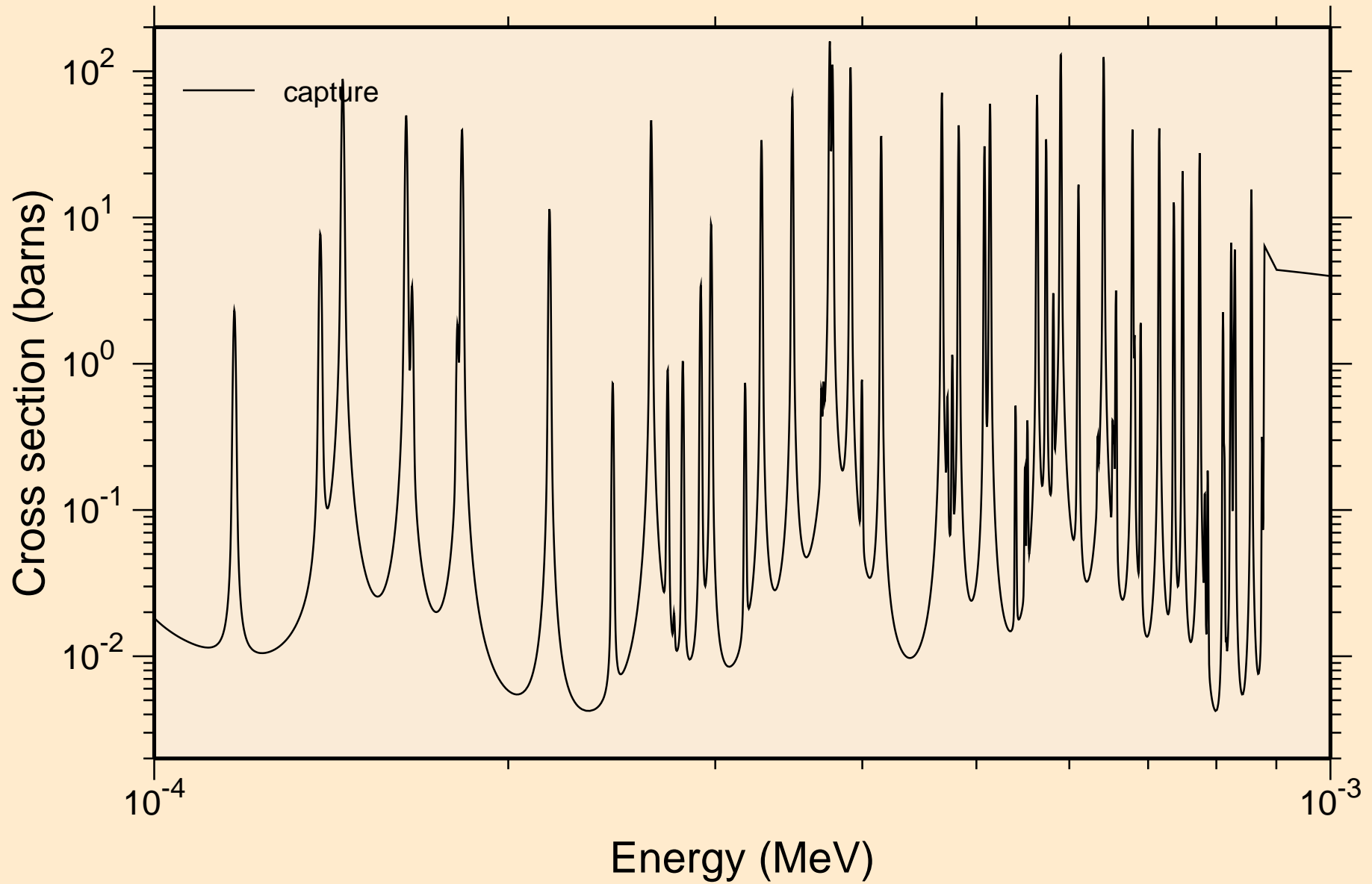
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



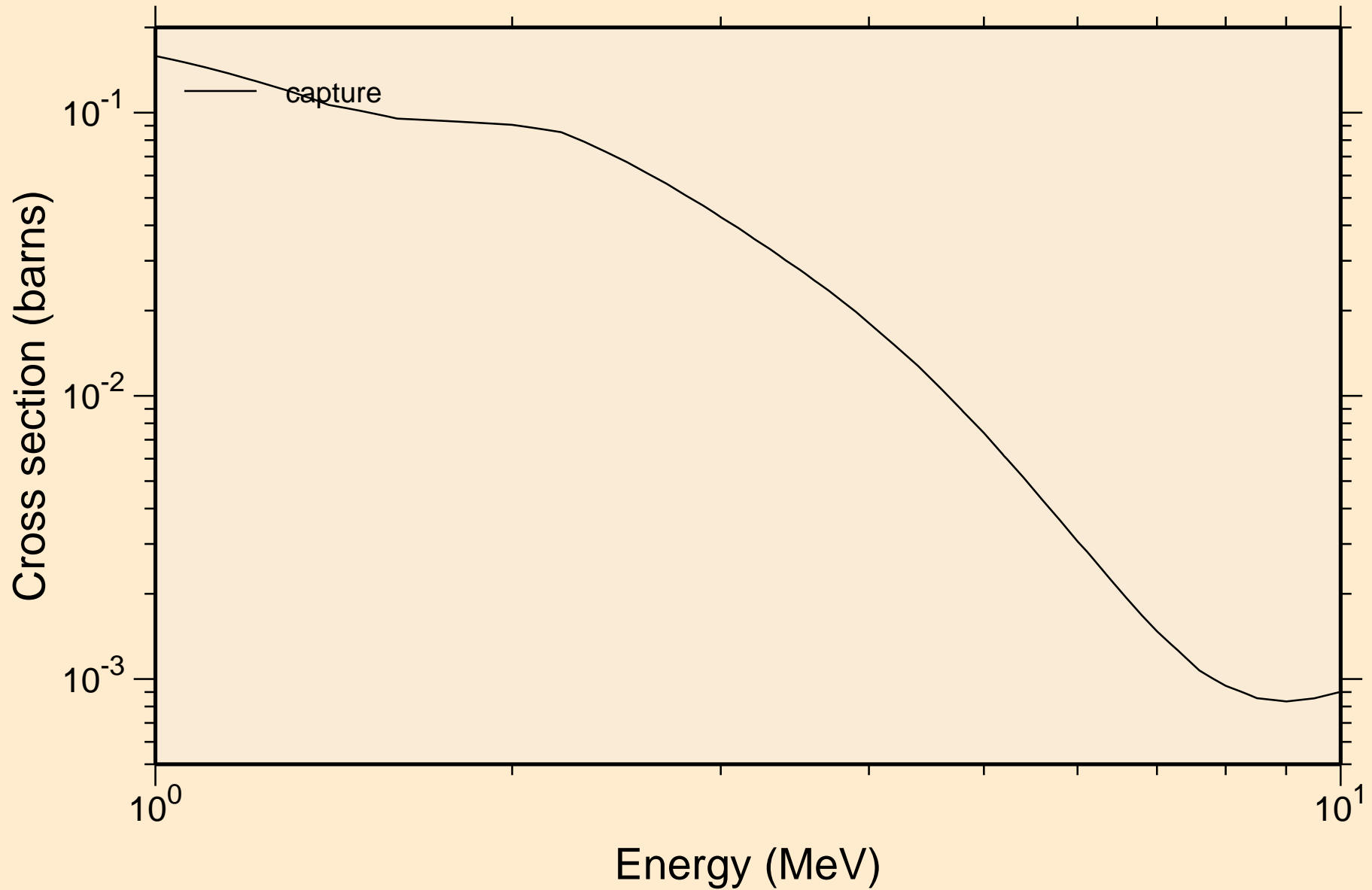
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



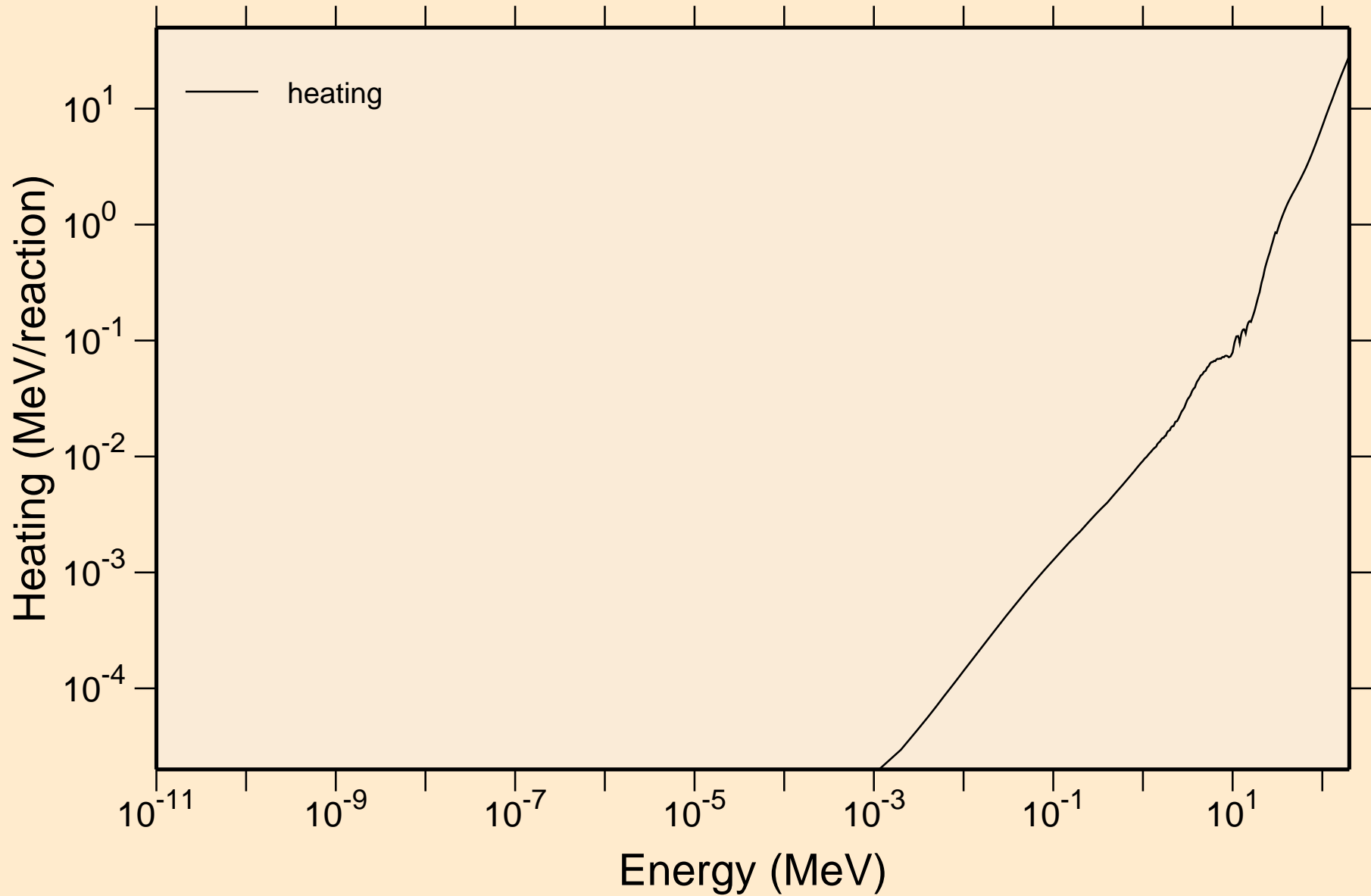
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

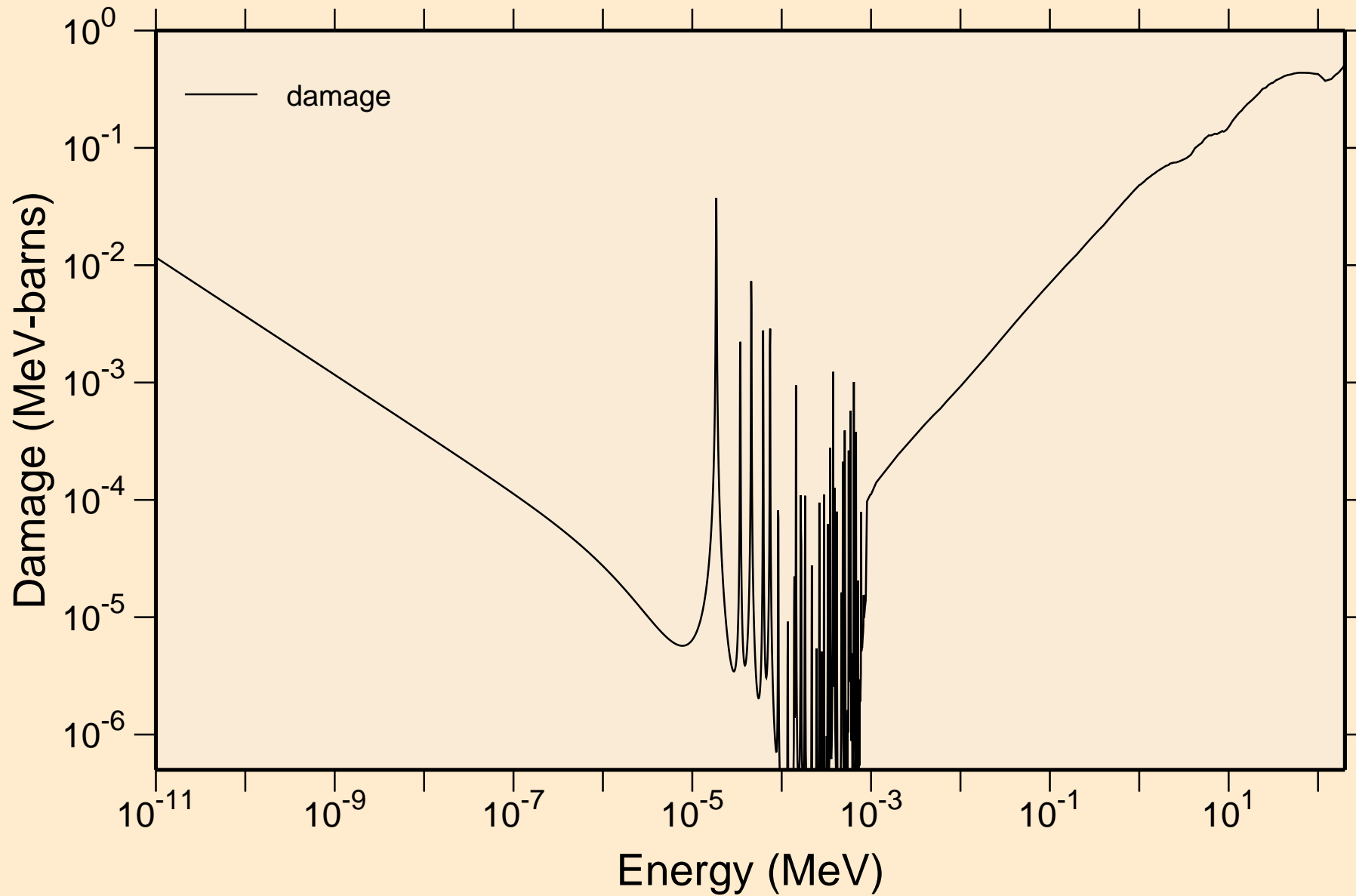


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

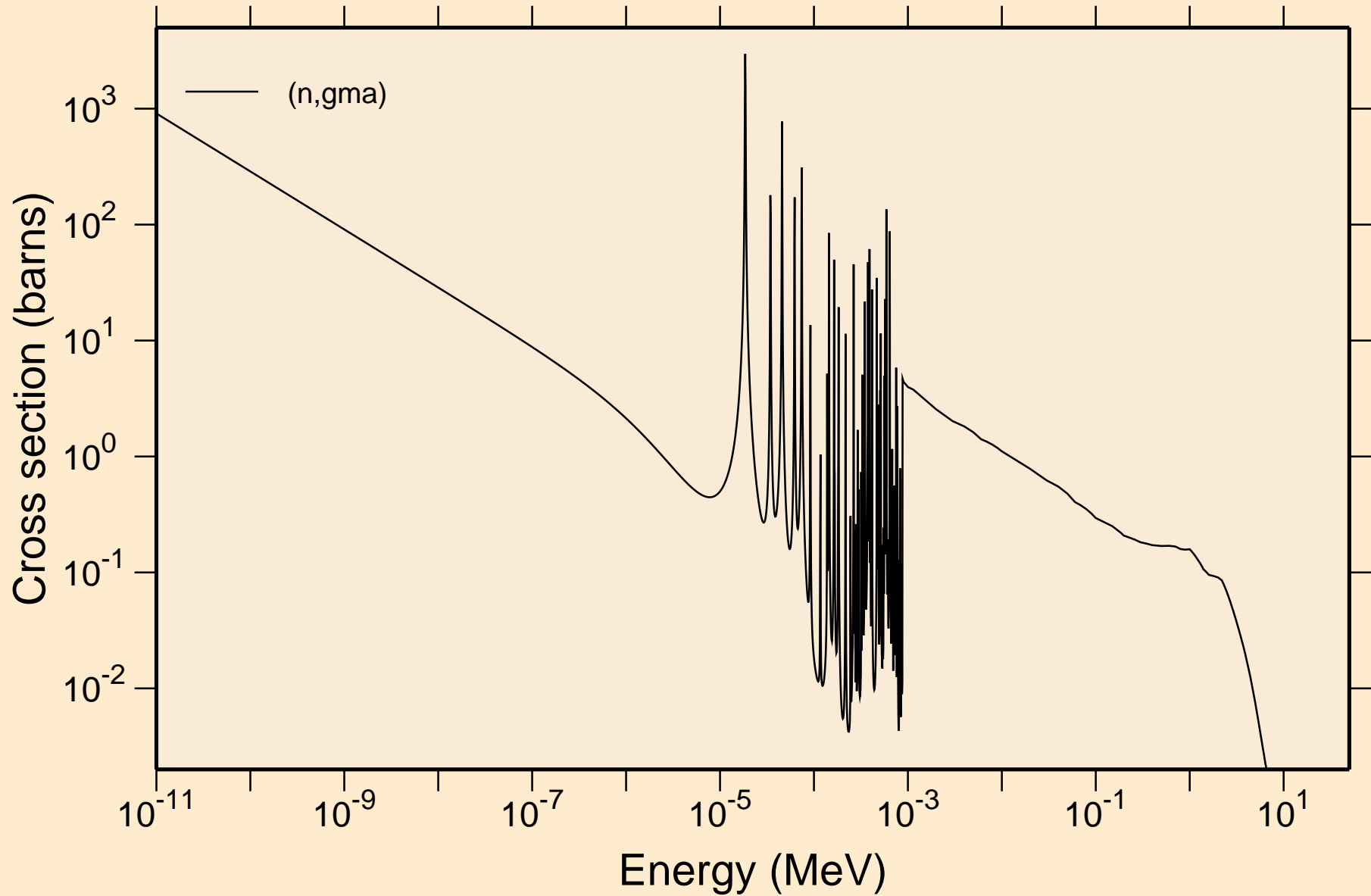




IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

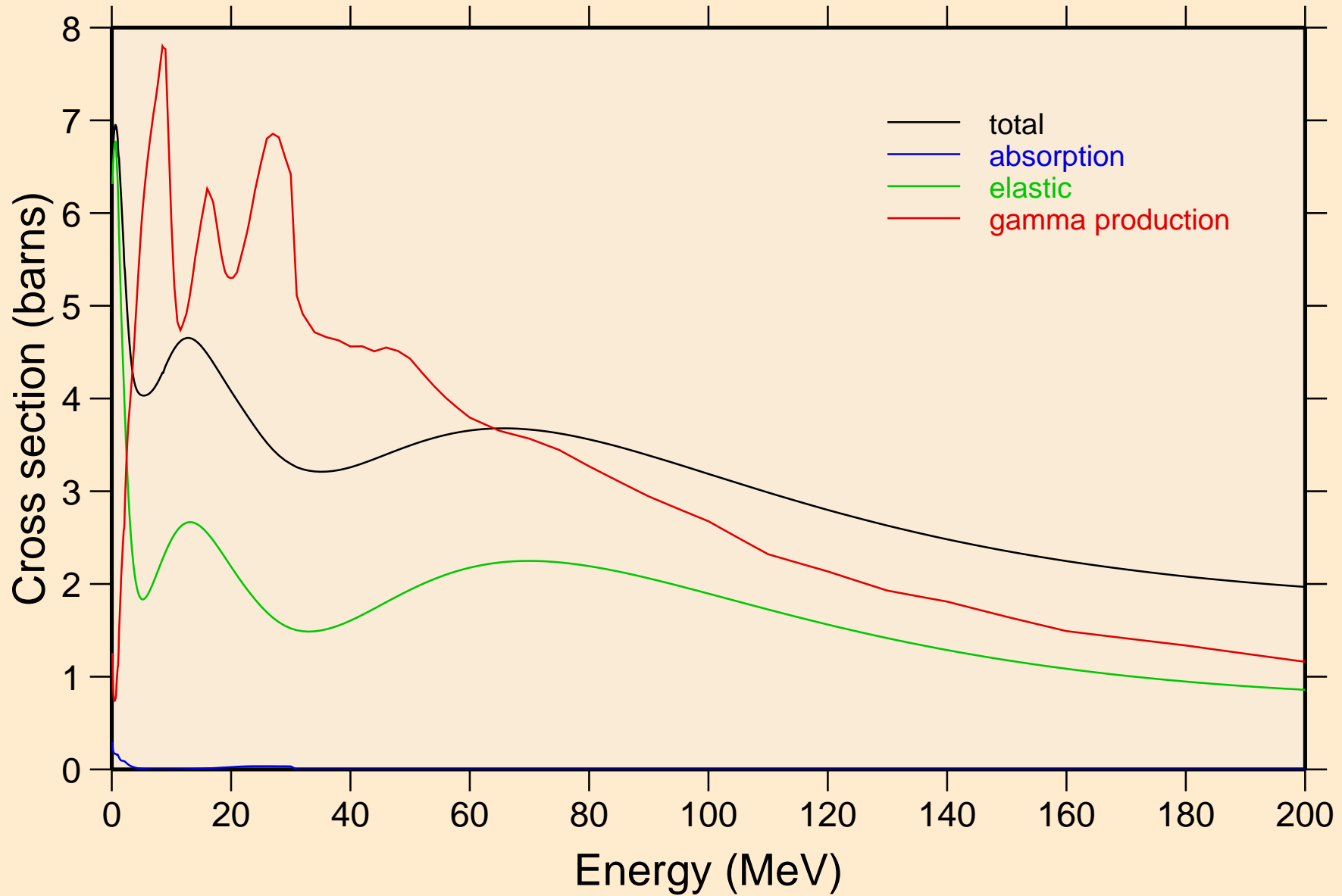


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



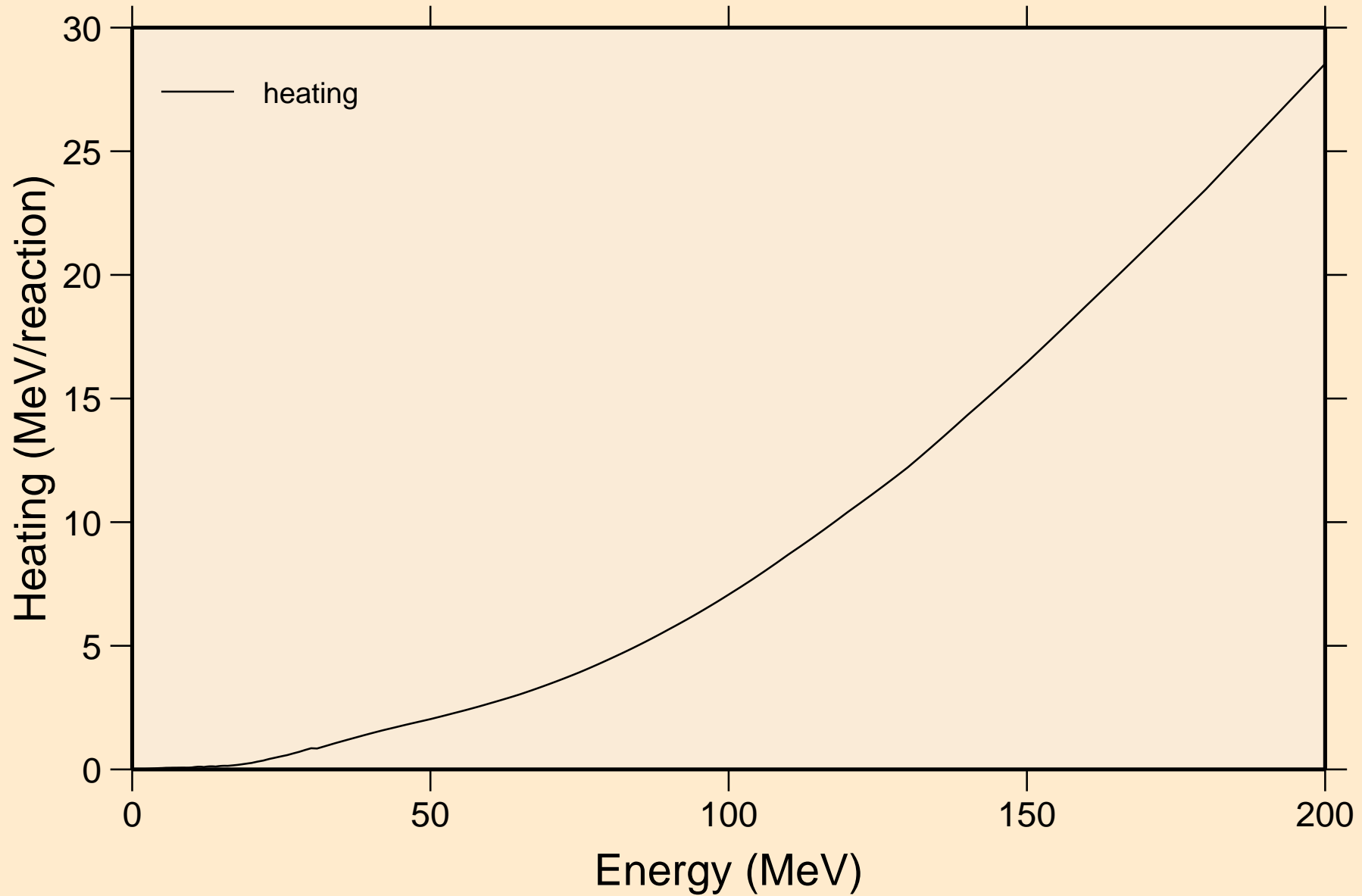
# IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections



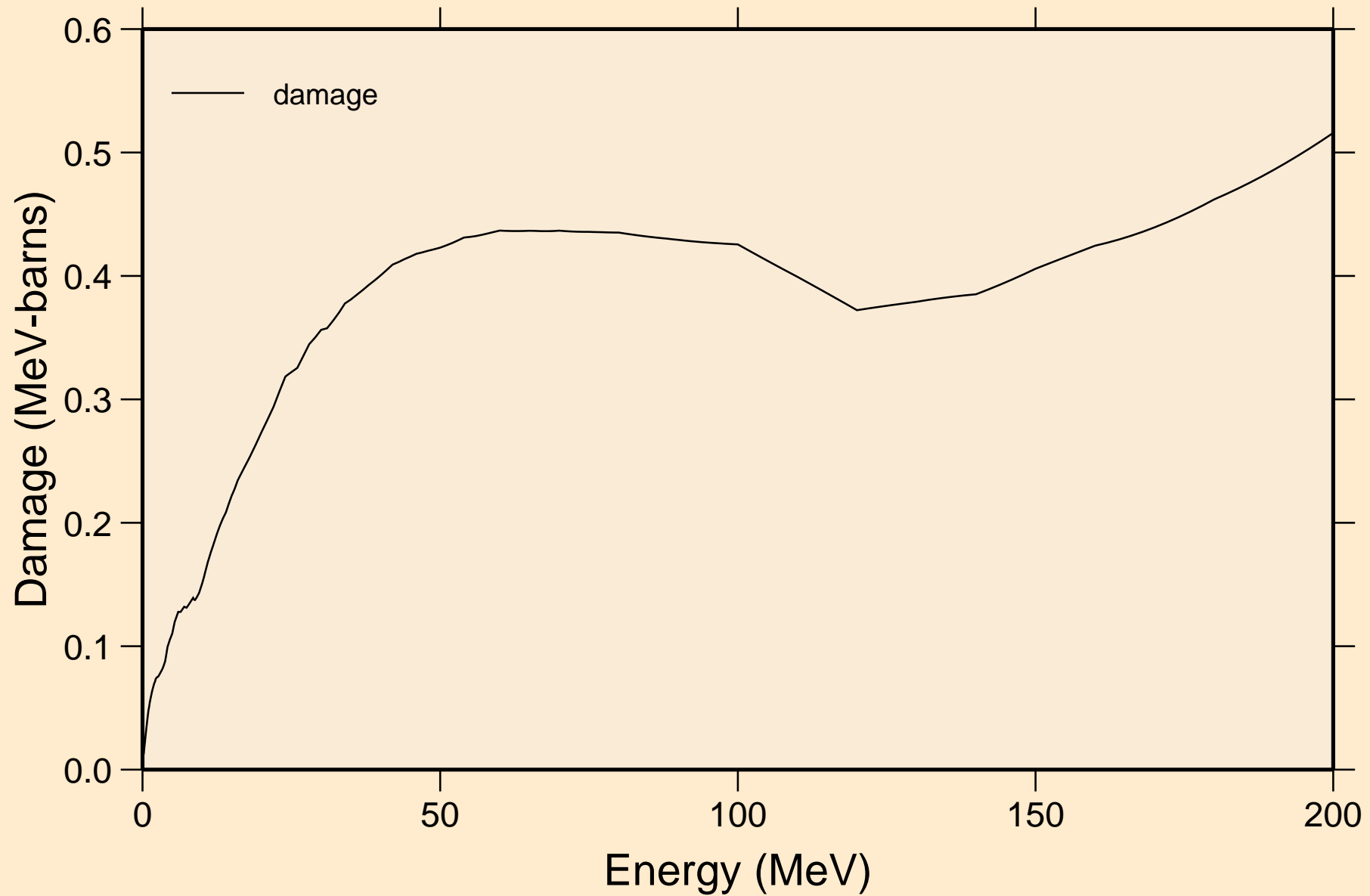
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

Heating

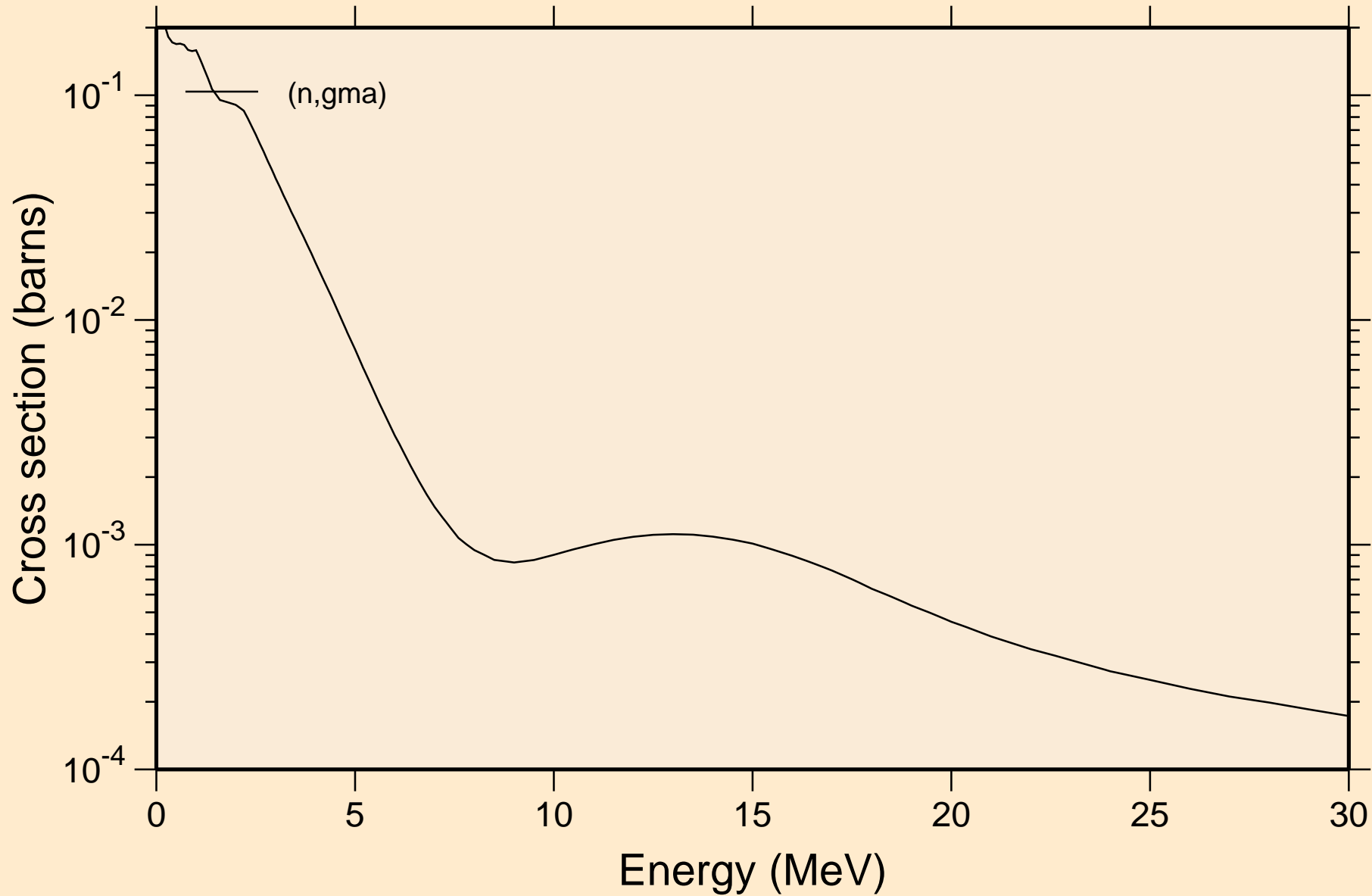


# IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

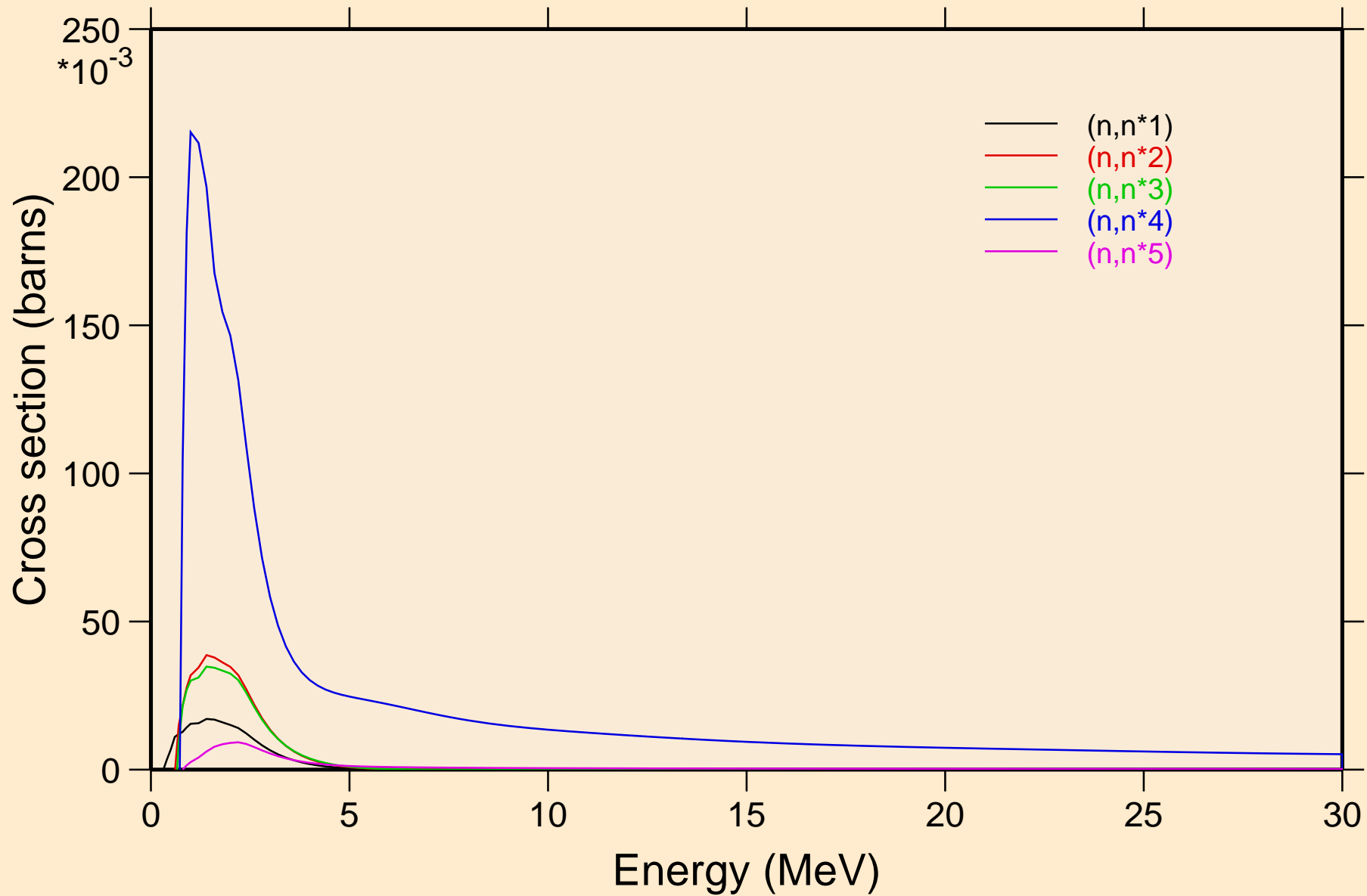
## Damage



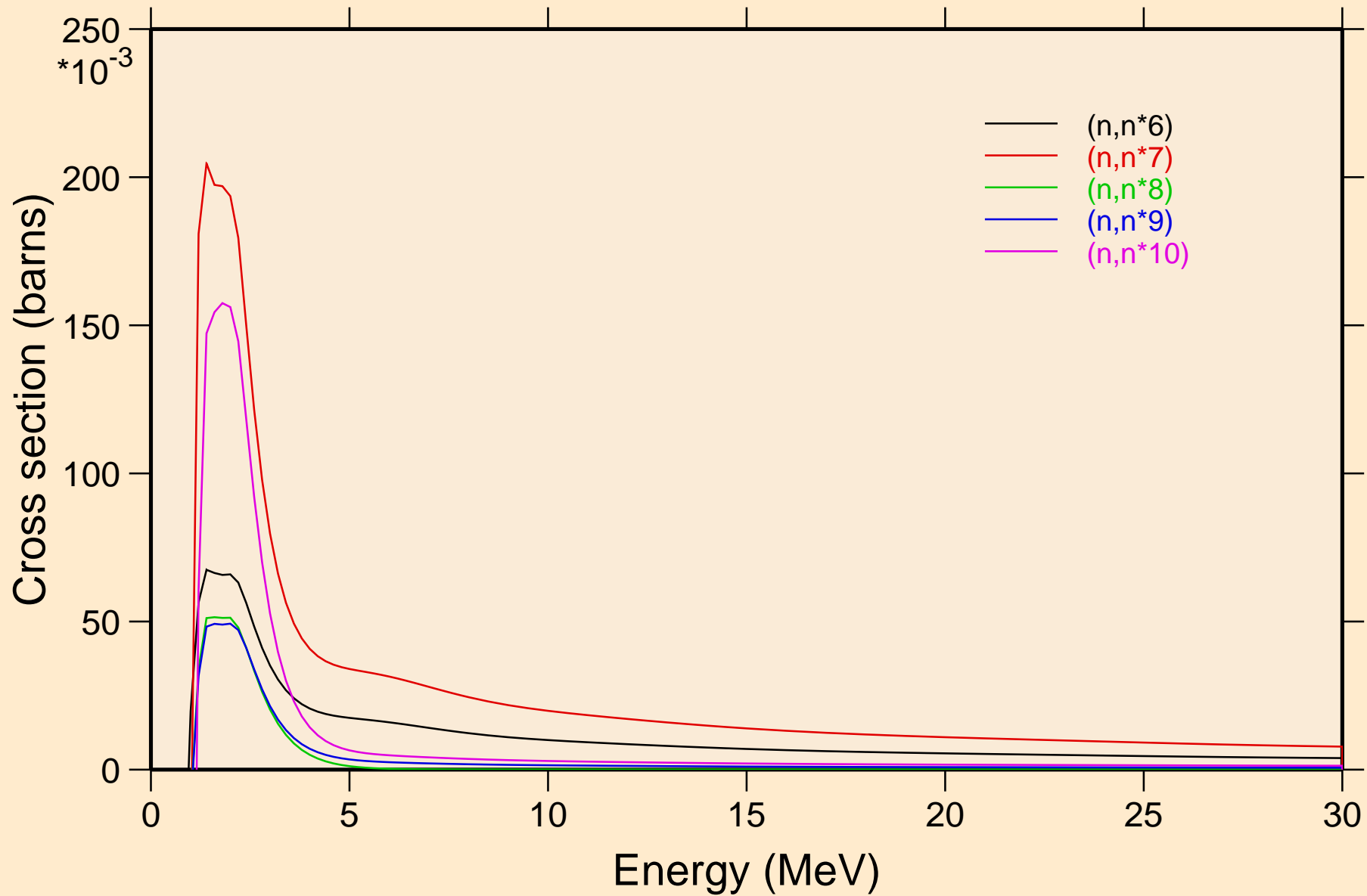
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

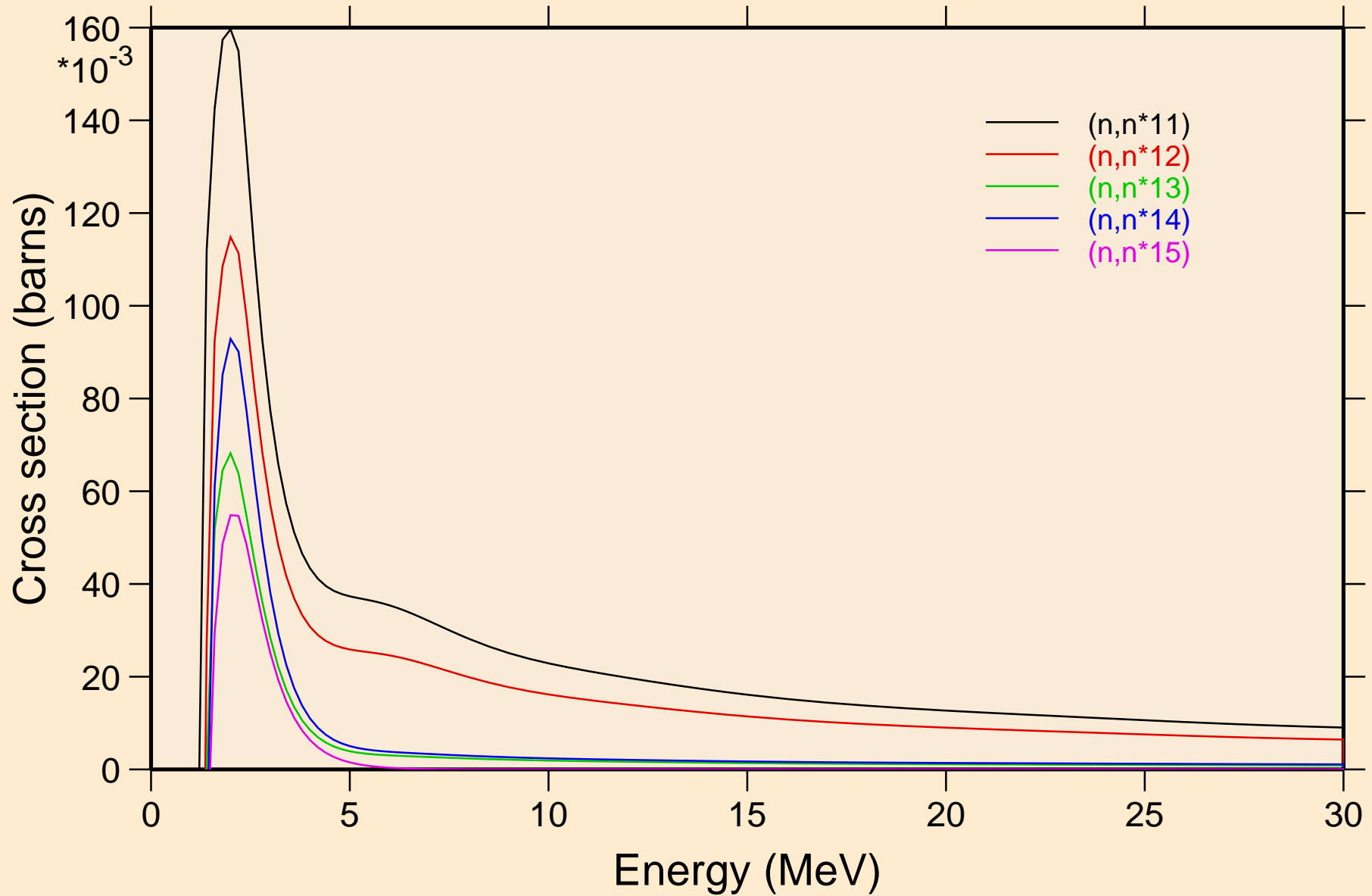


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

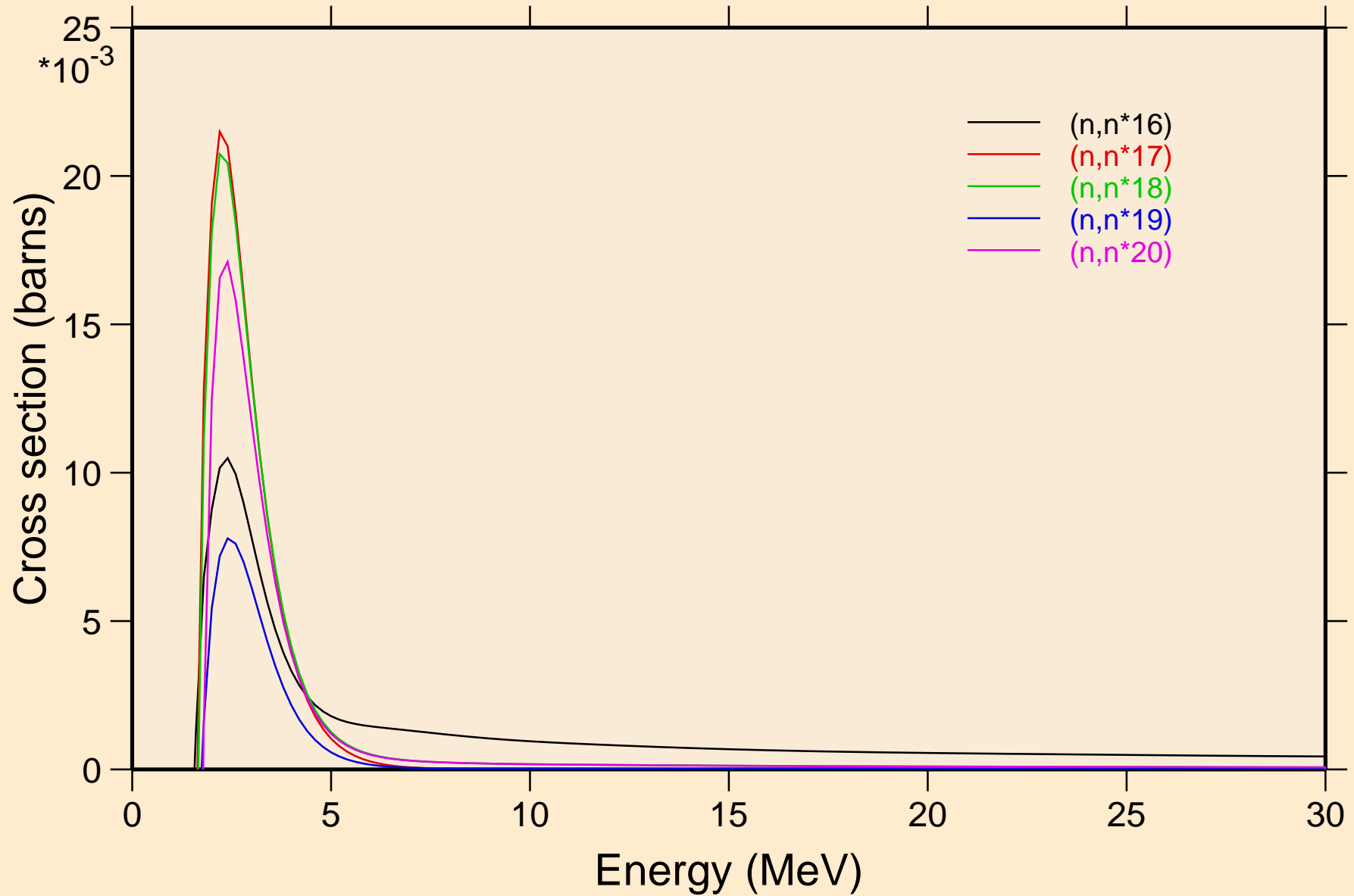




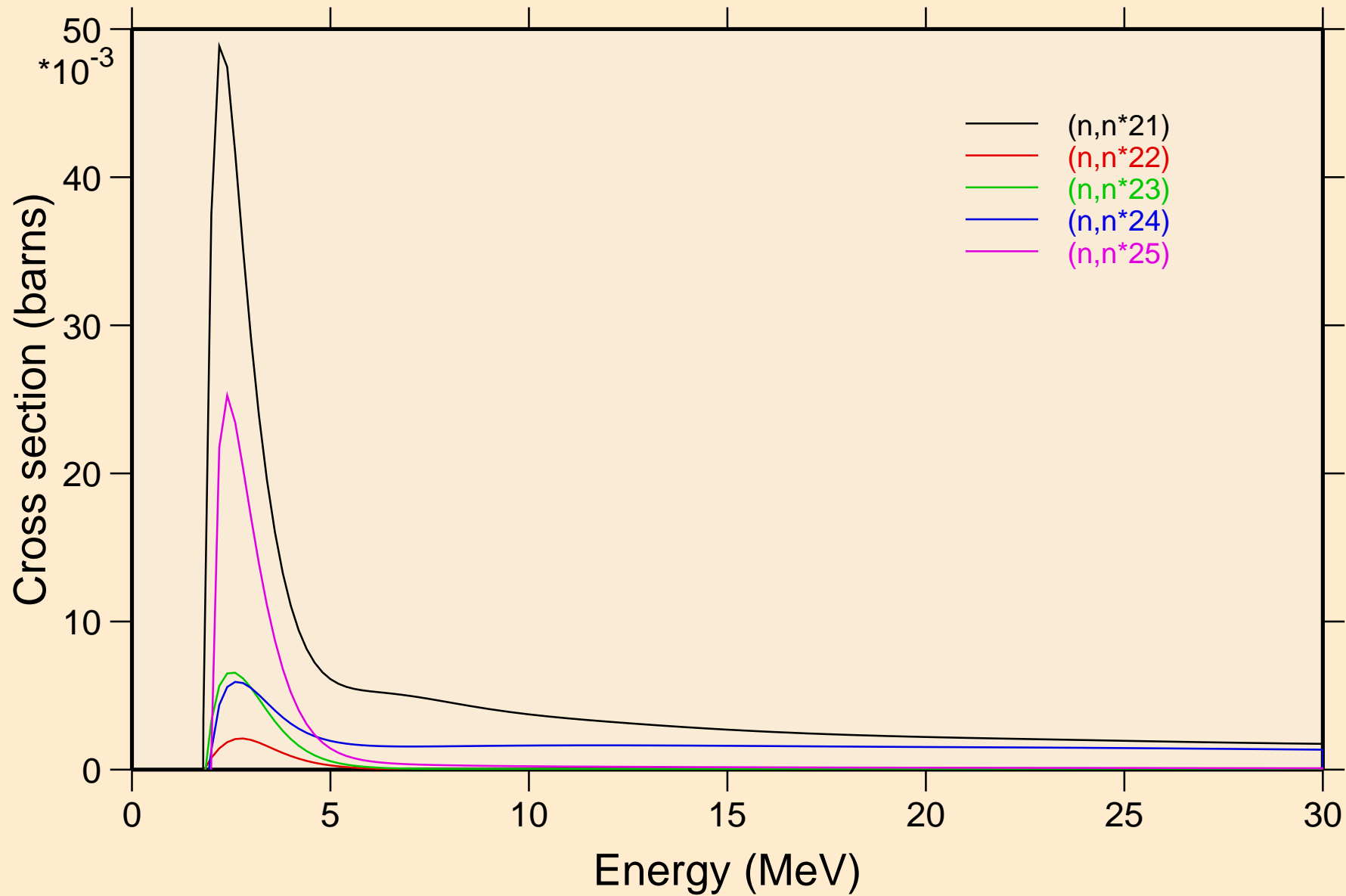
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



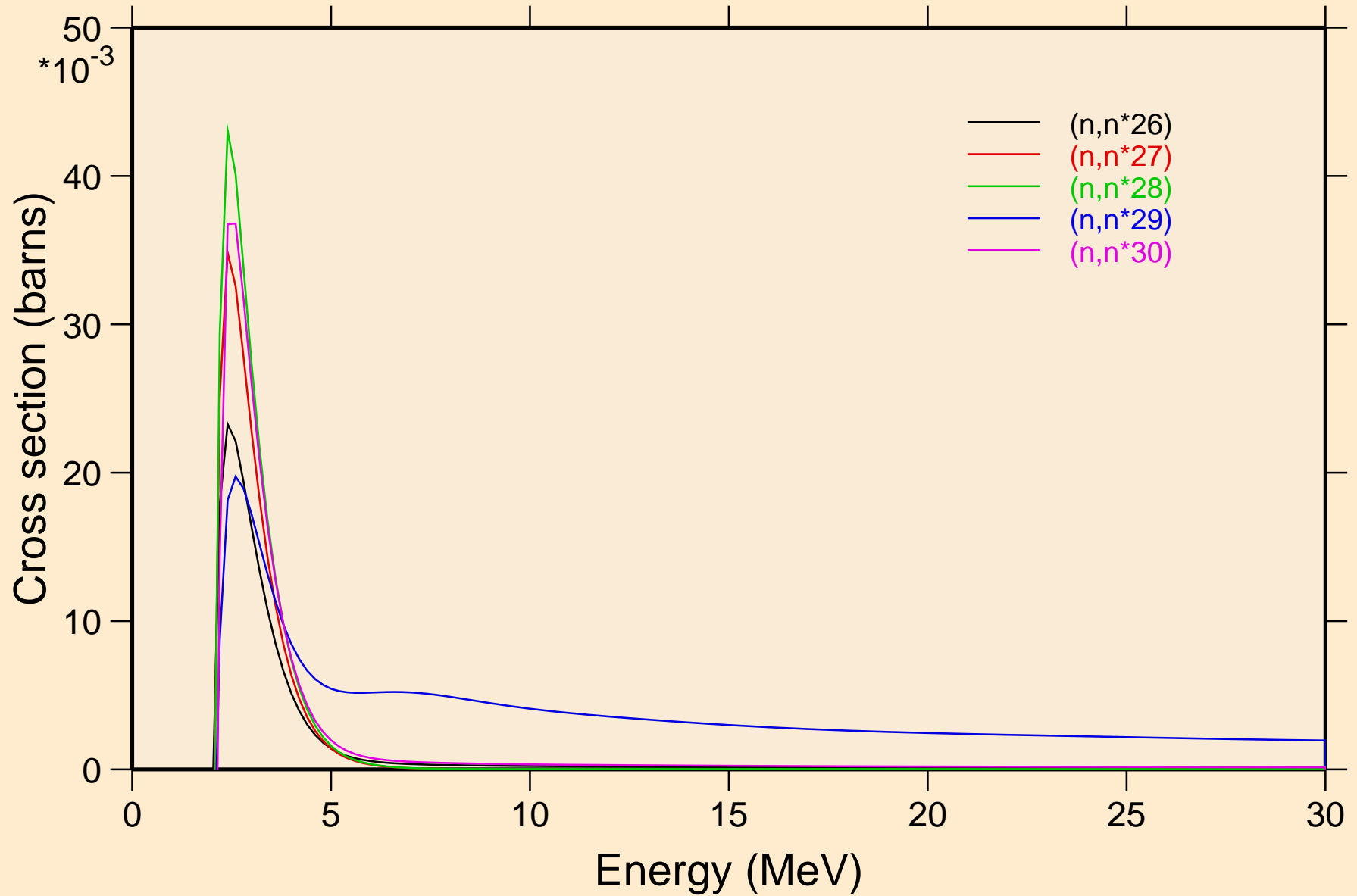
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



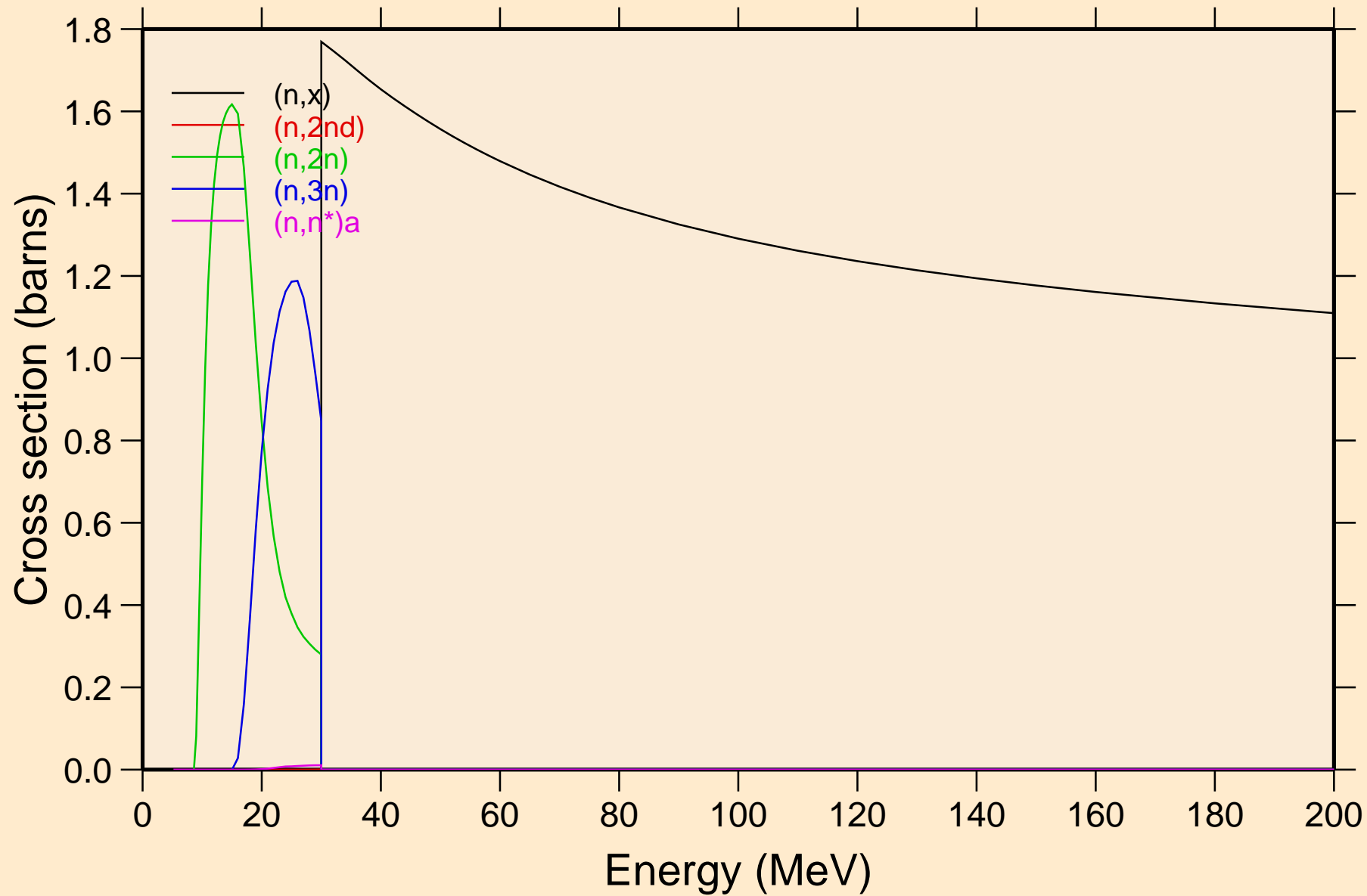
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



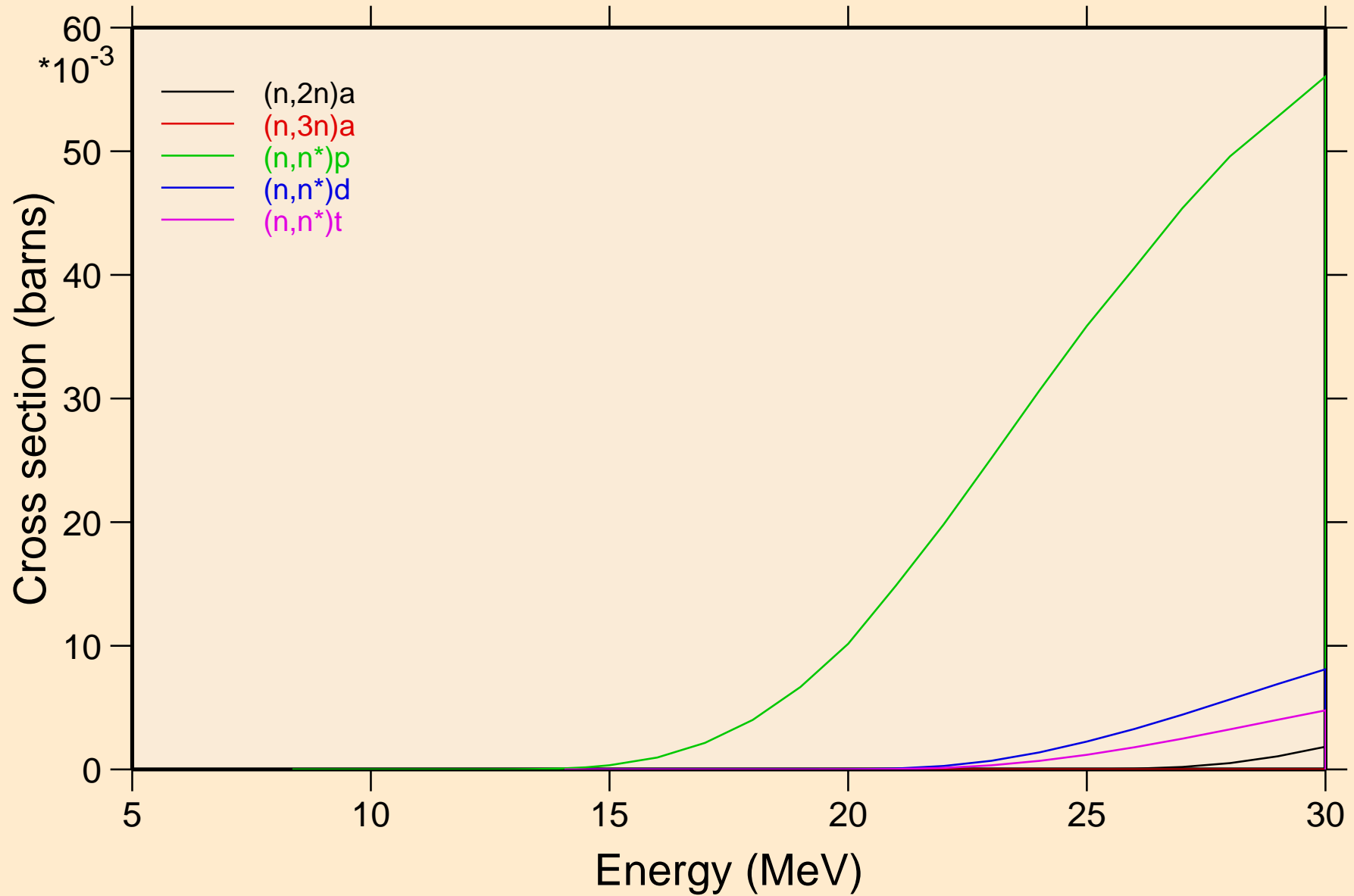
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



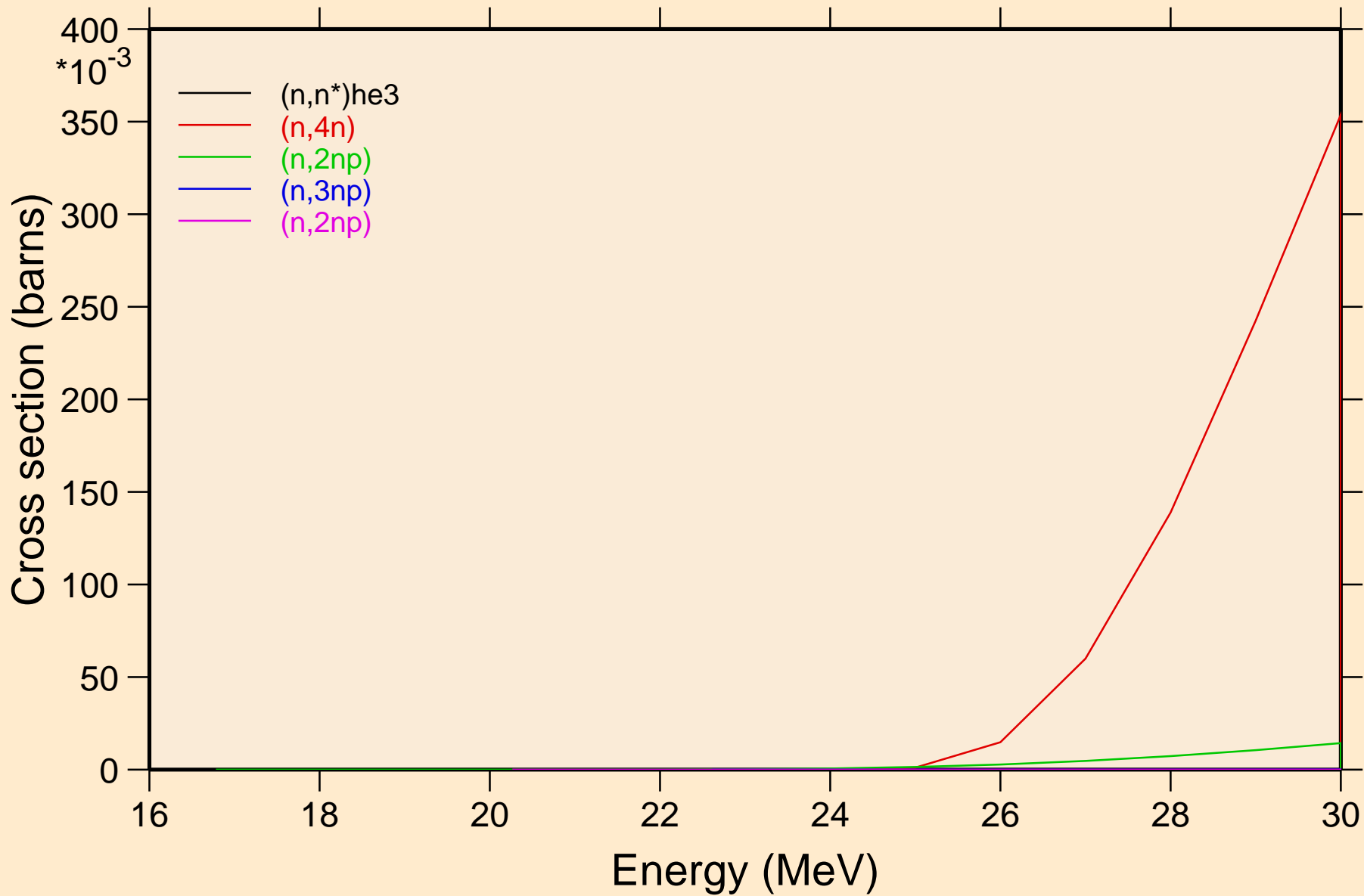
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



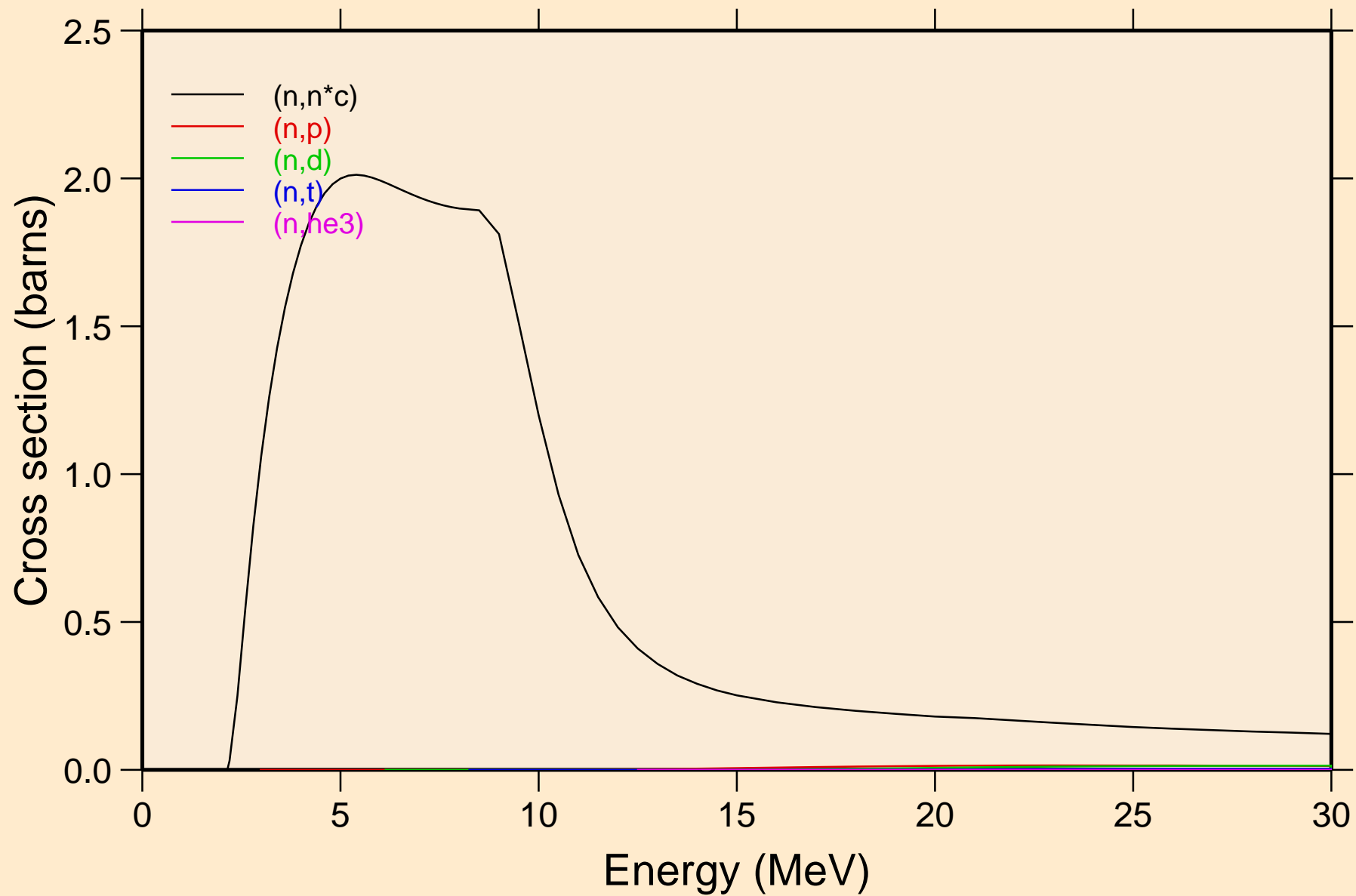
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

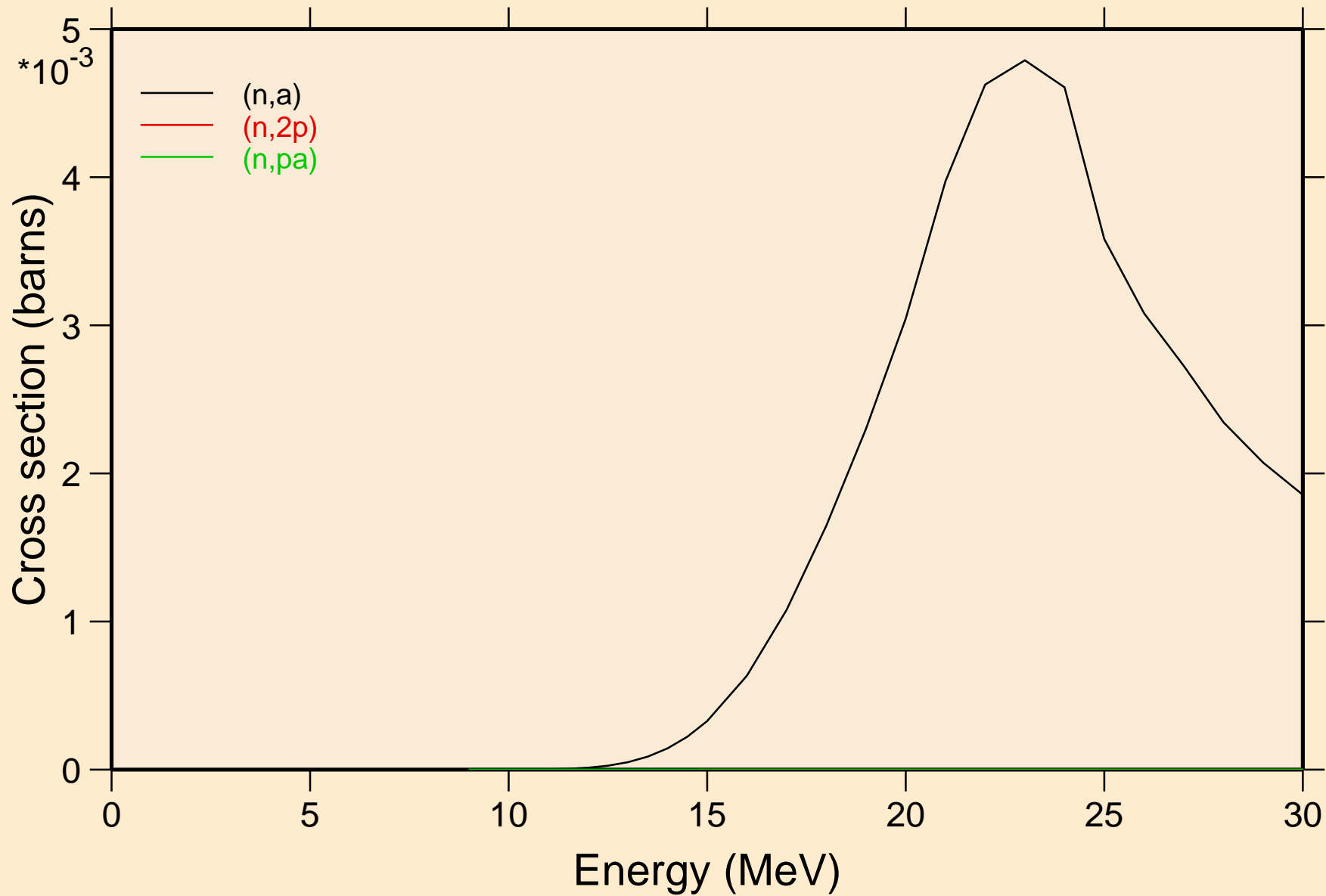


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



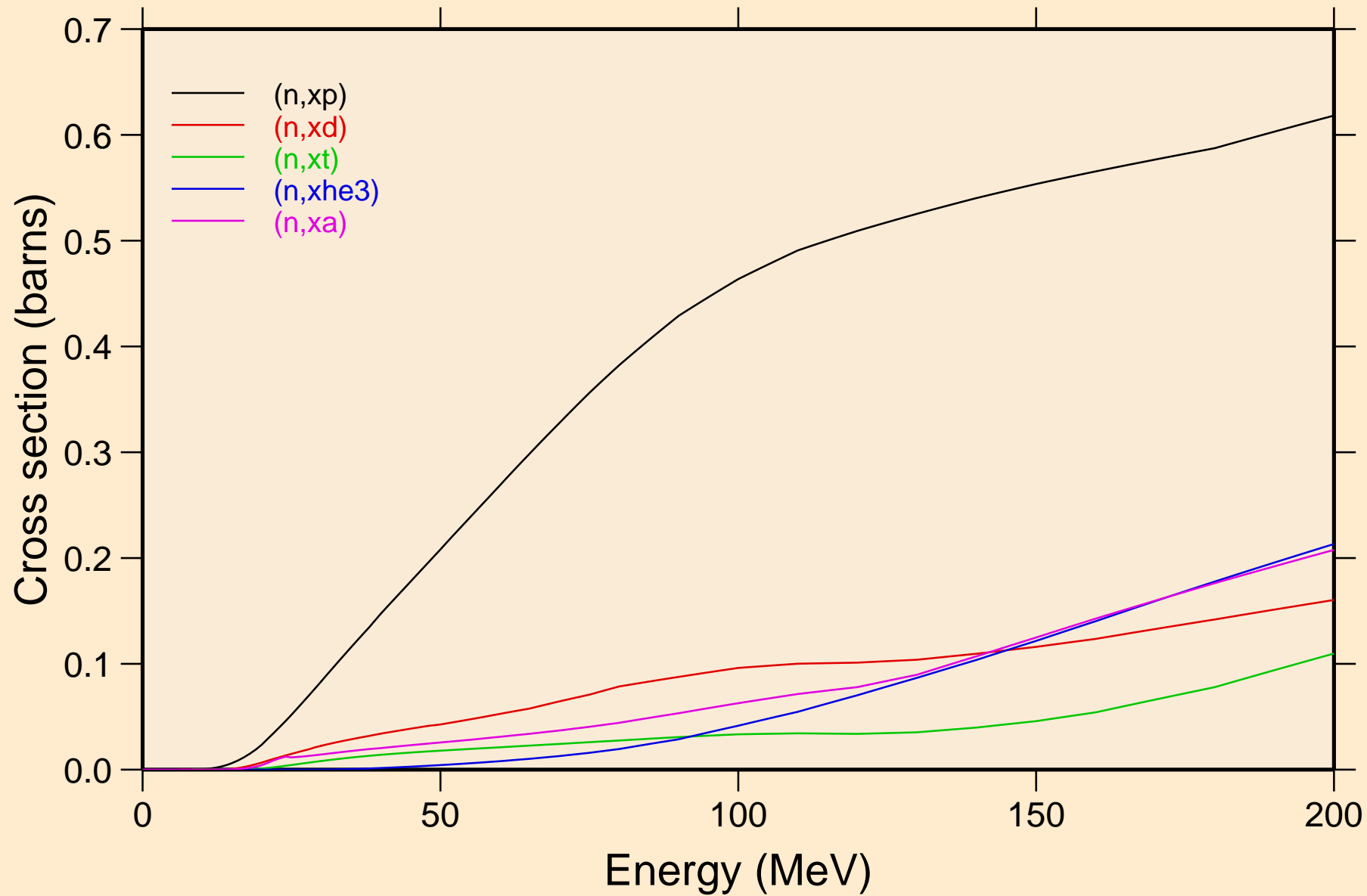


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

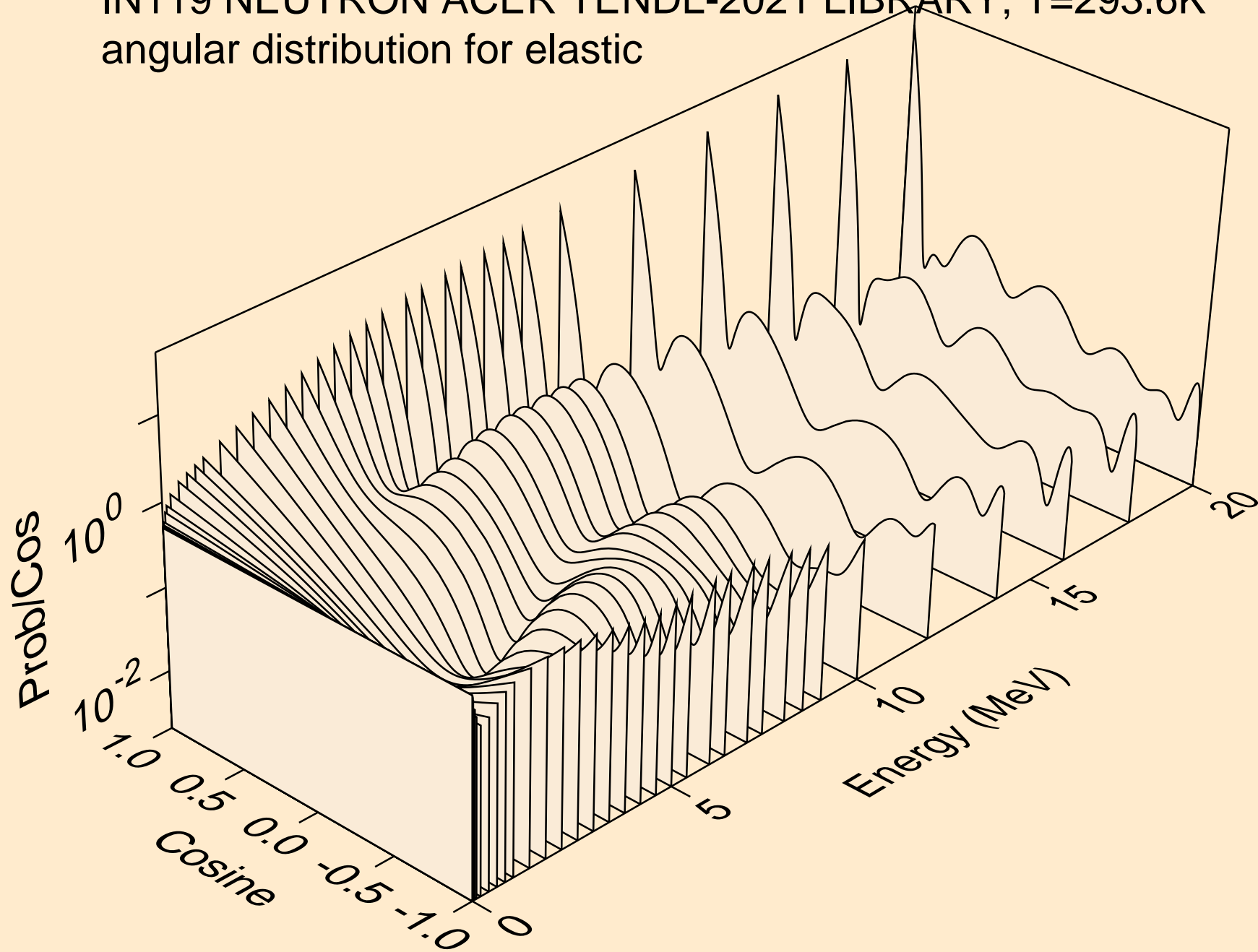


# IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

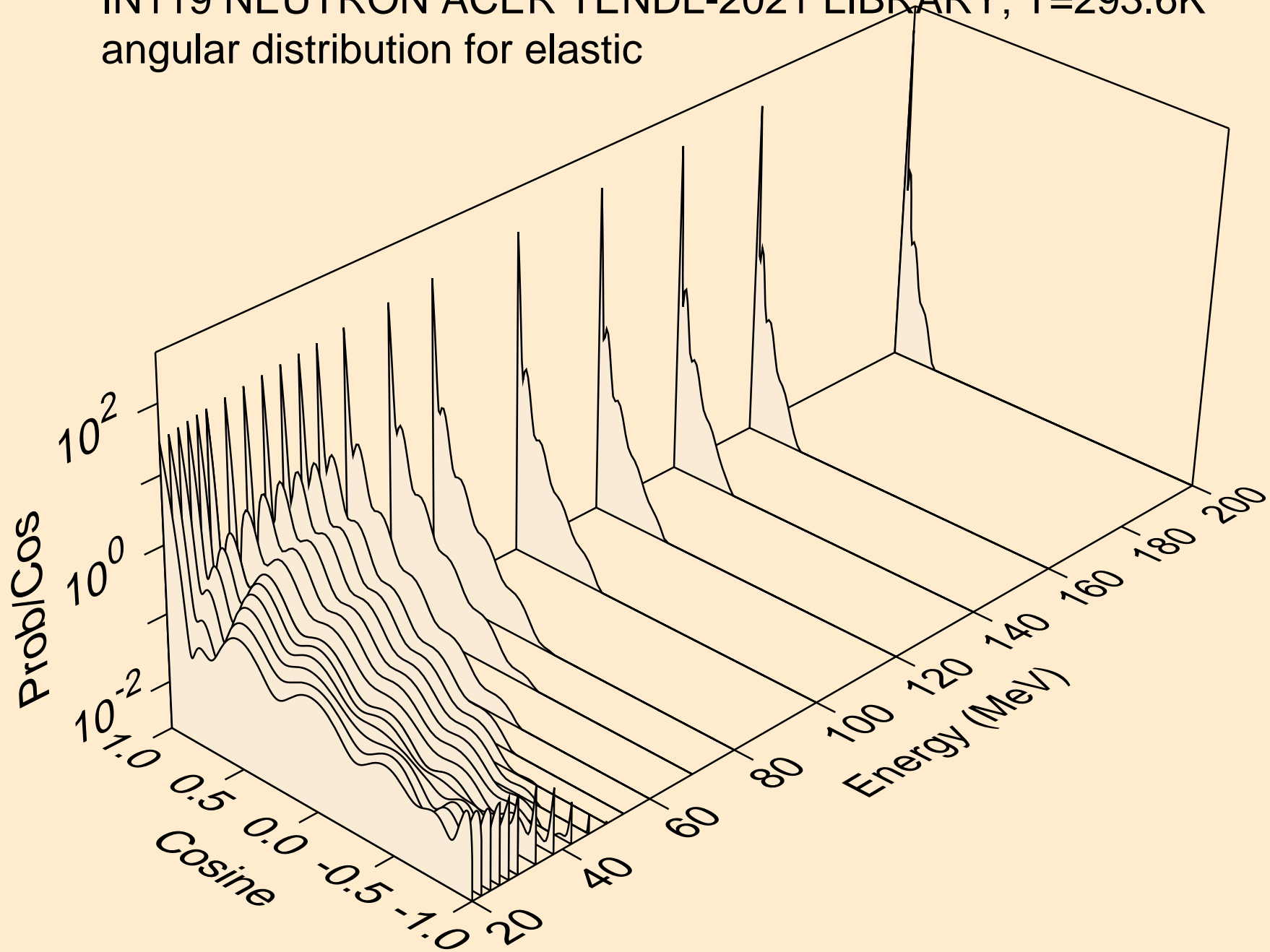
## Threshold reactions



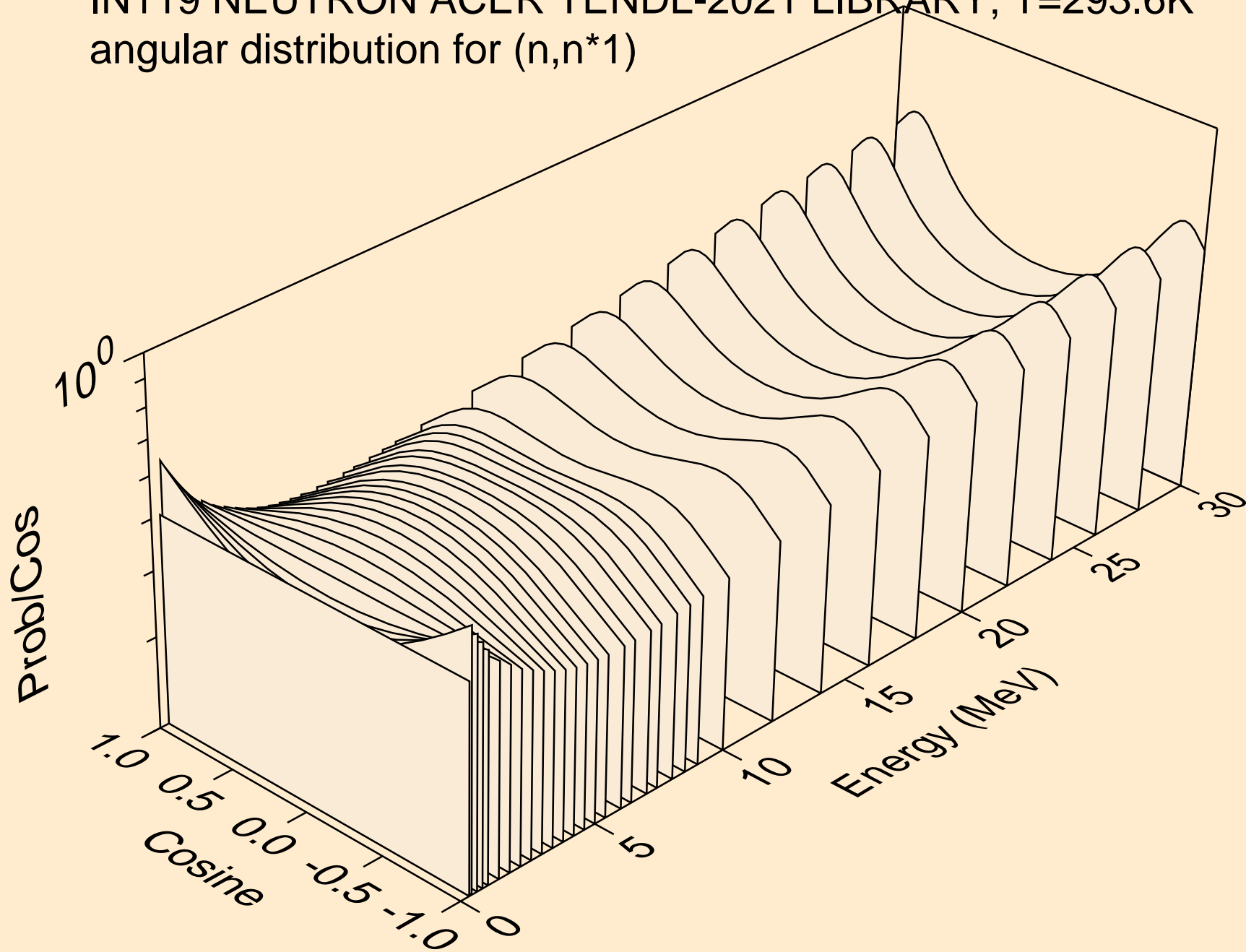
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



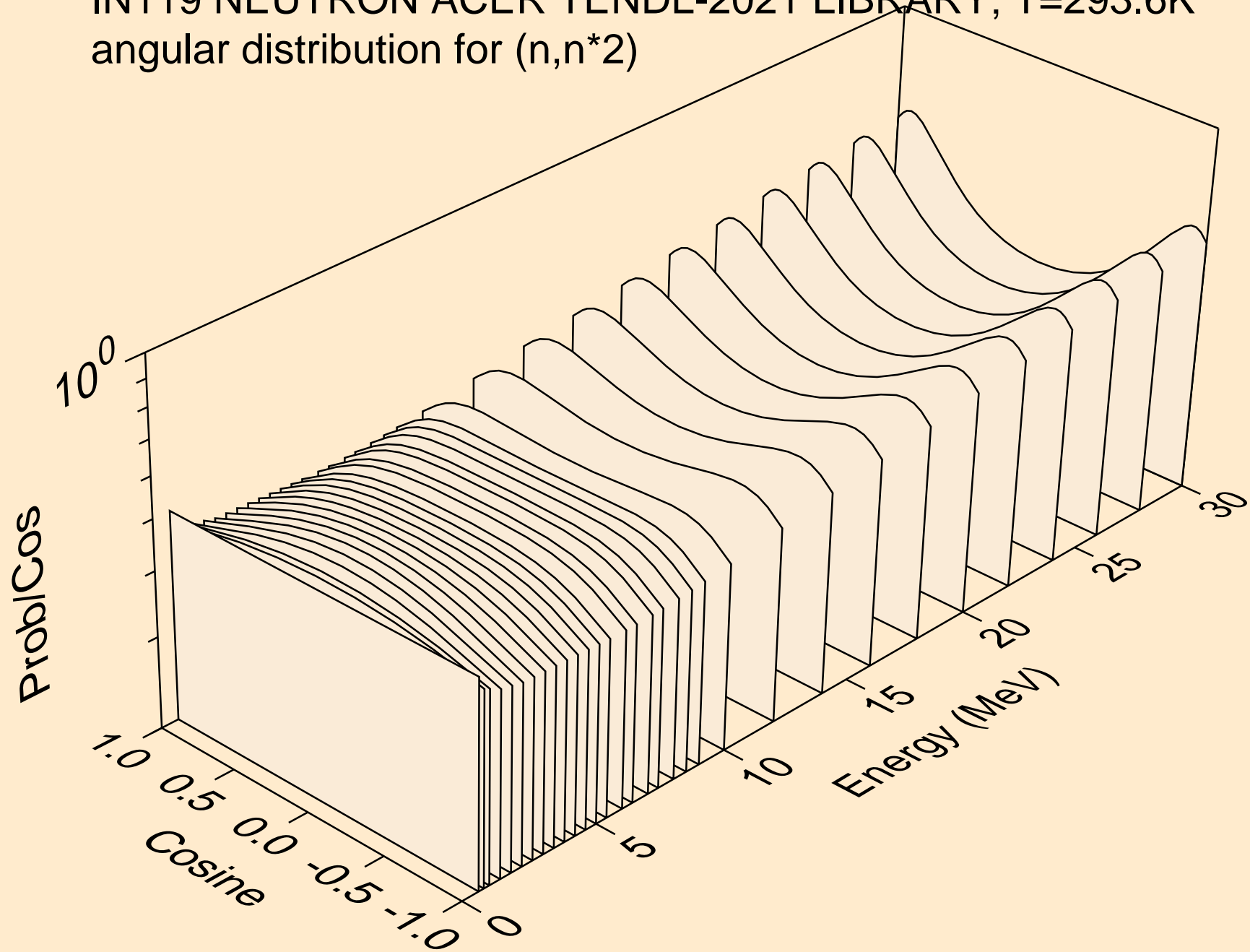
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



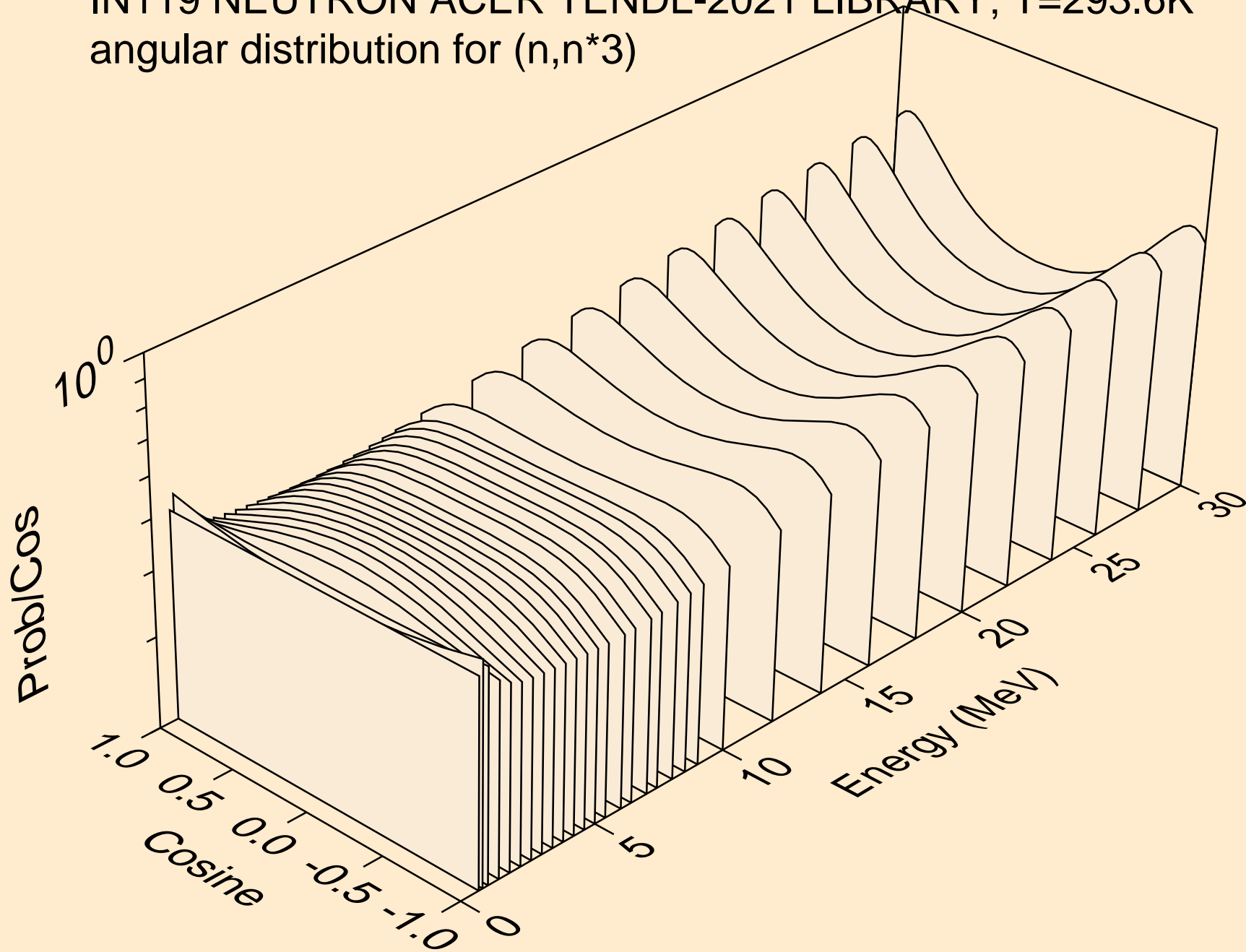
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



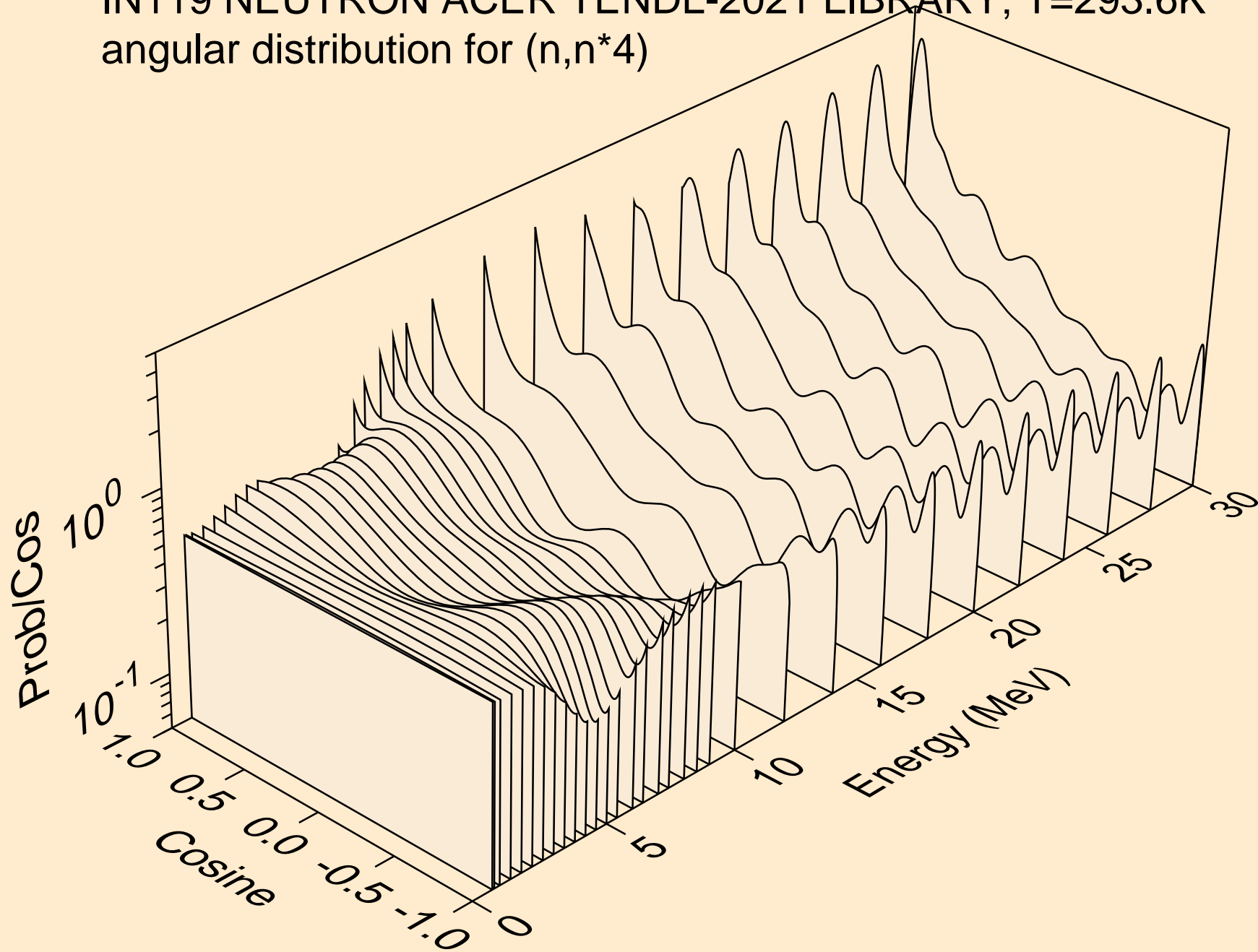
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)

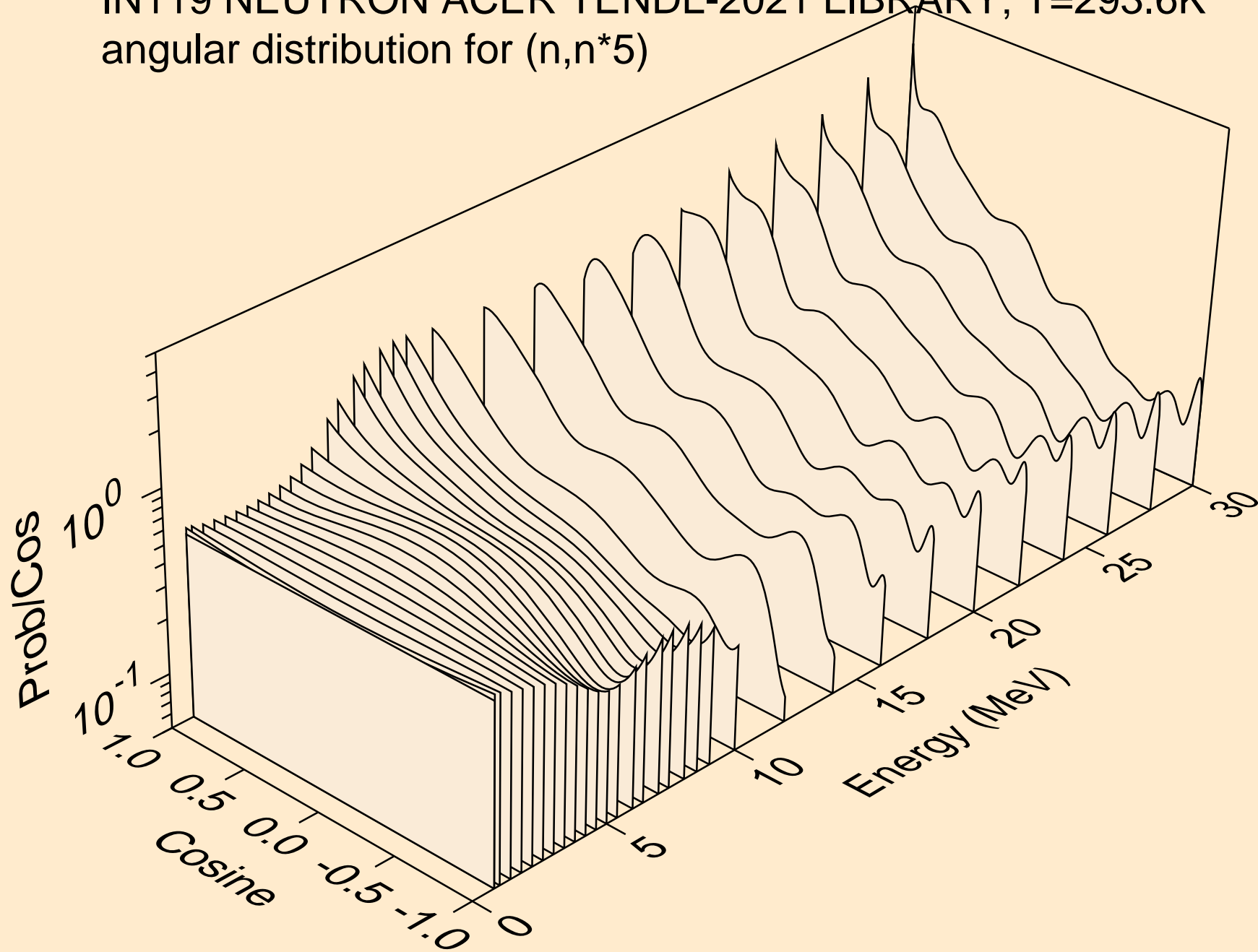


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)

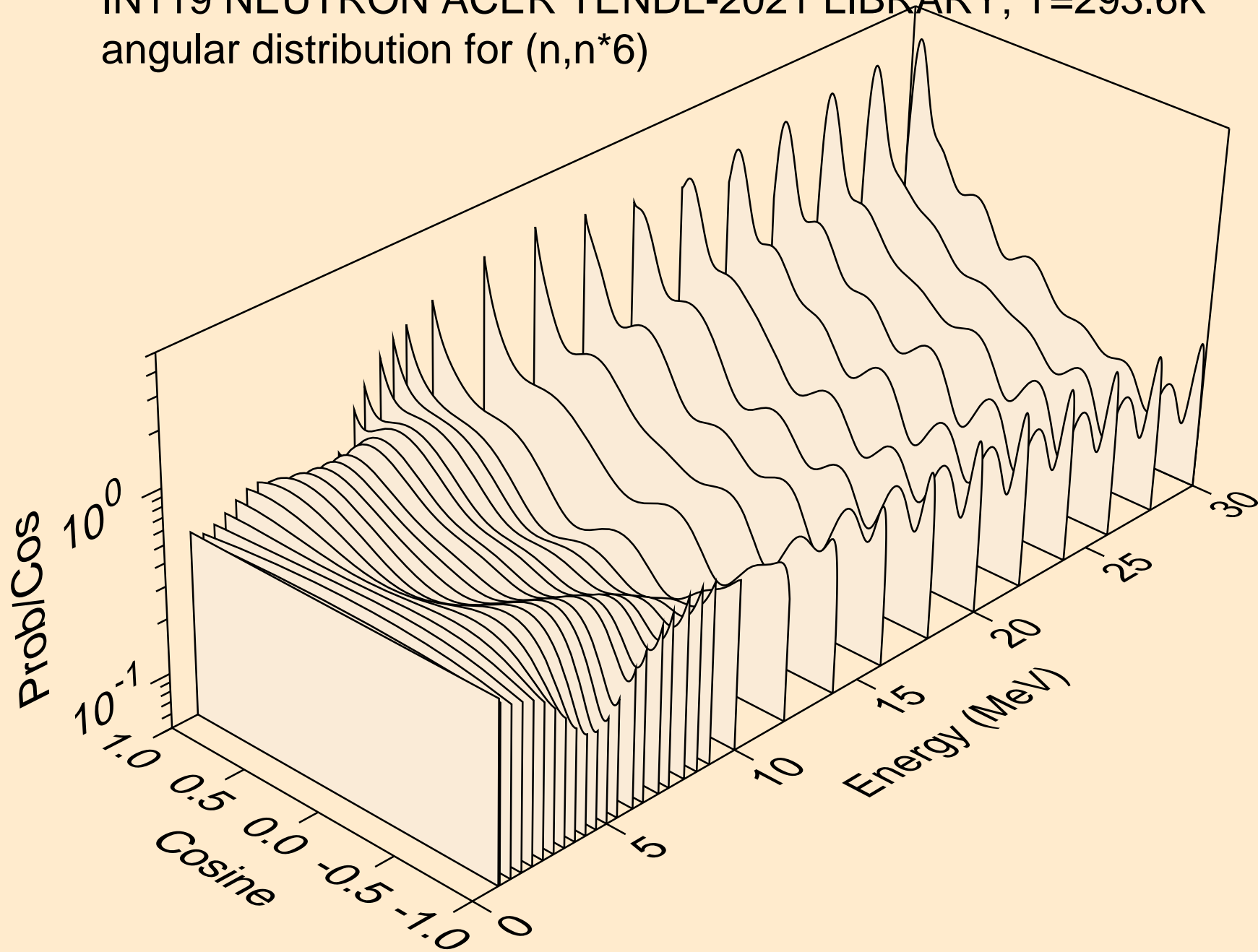




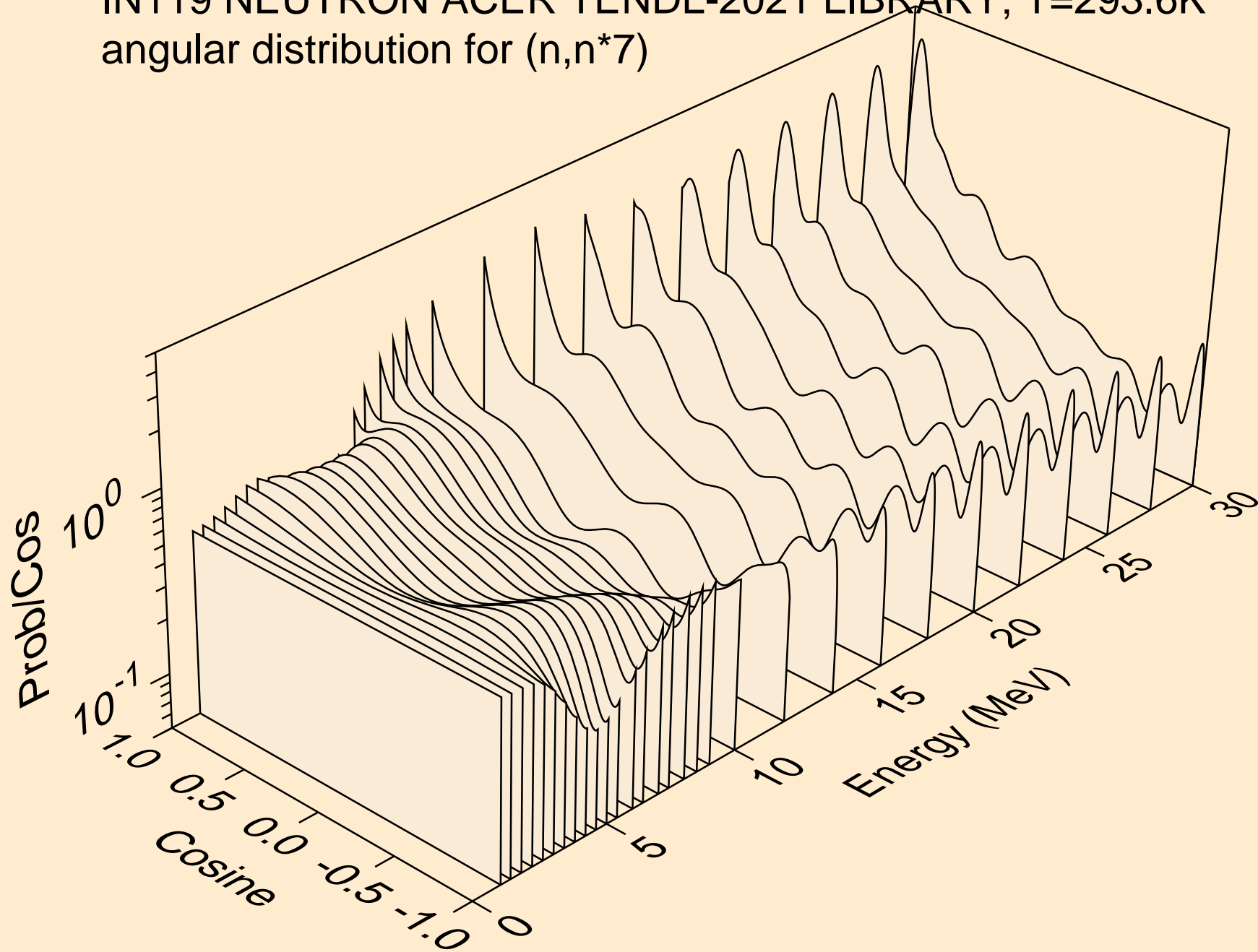
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



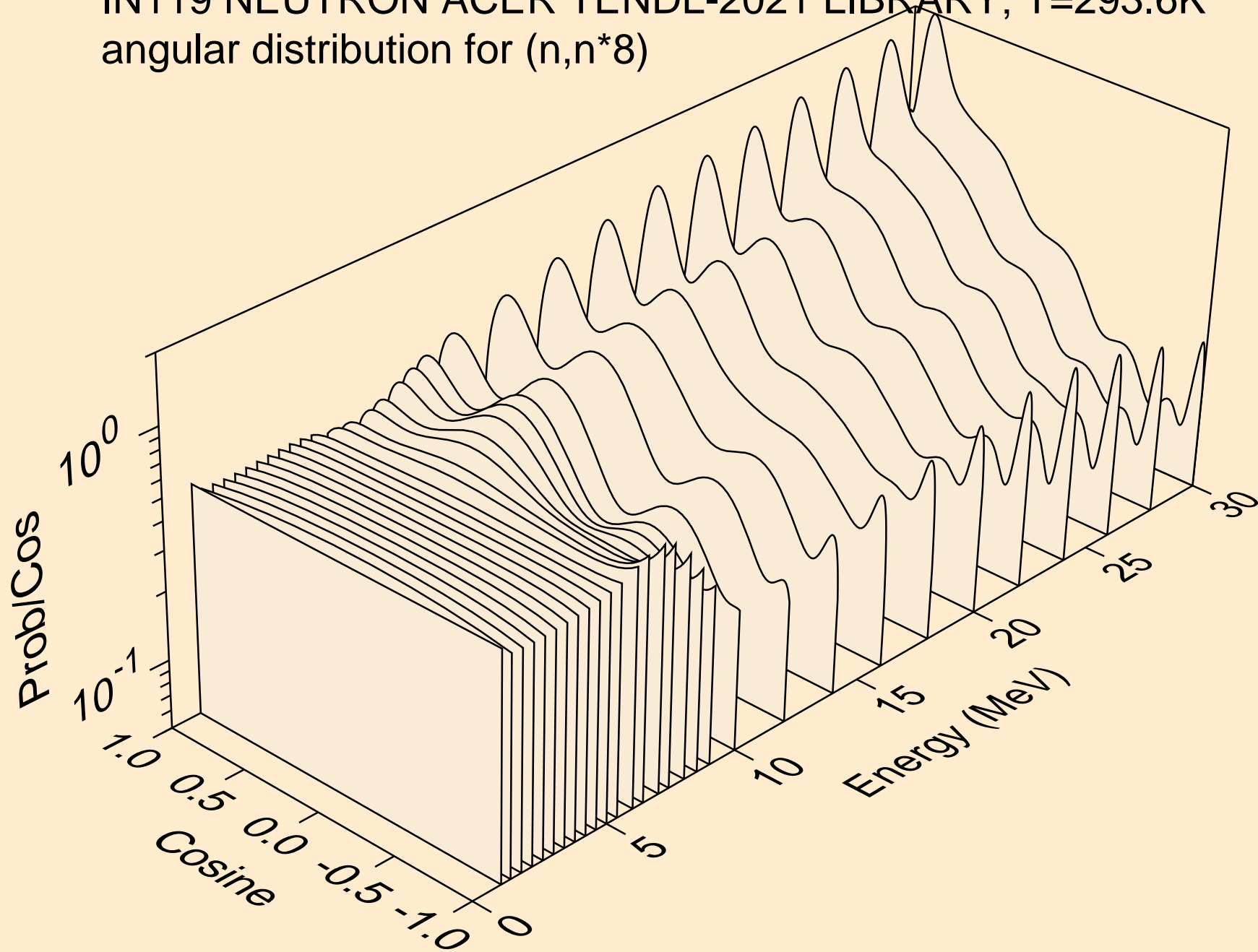
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



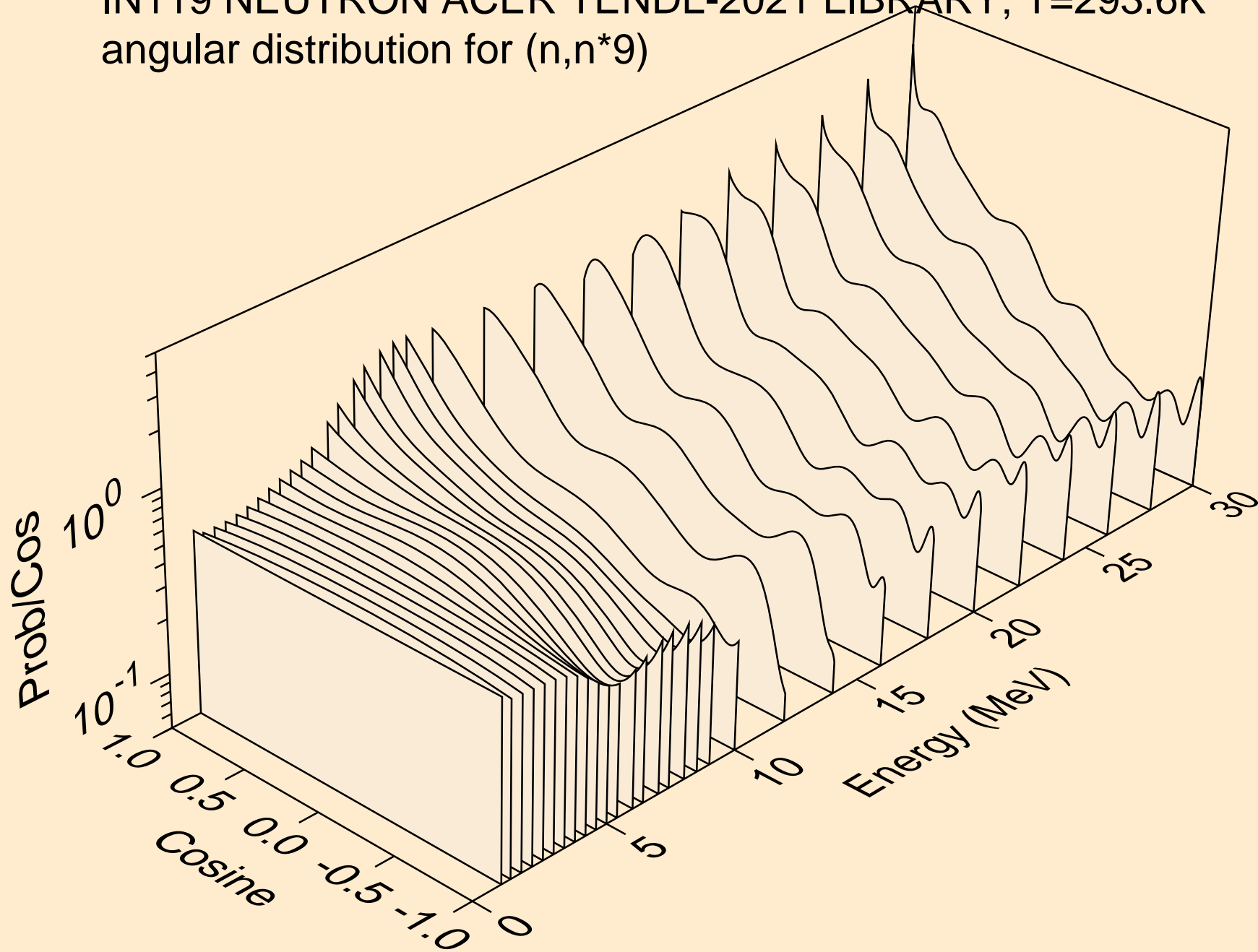
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



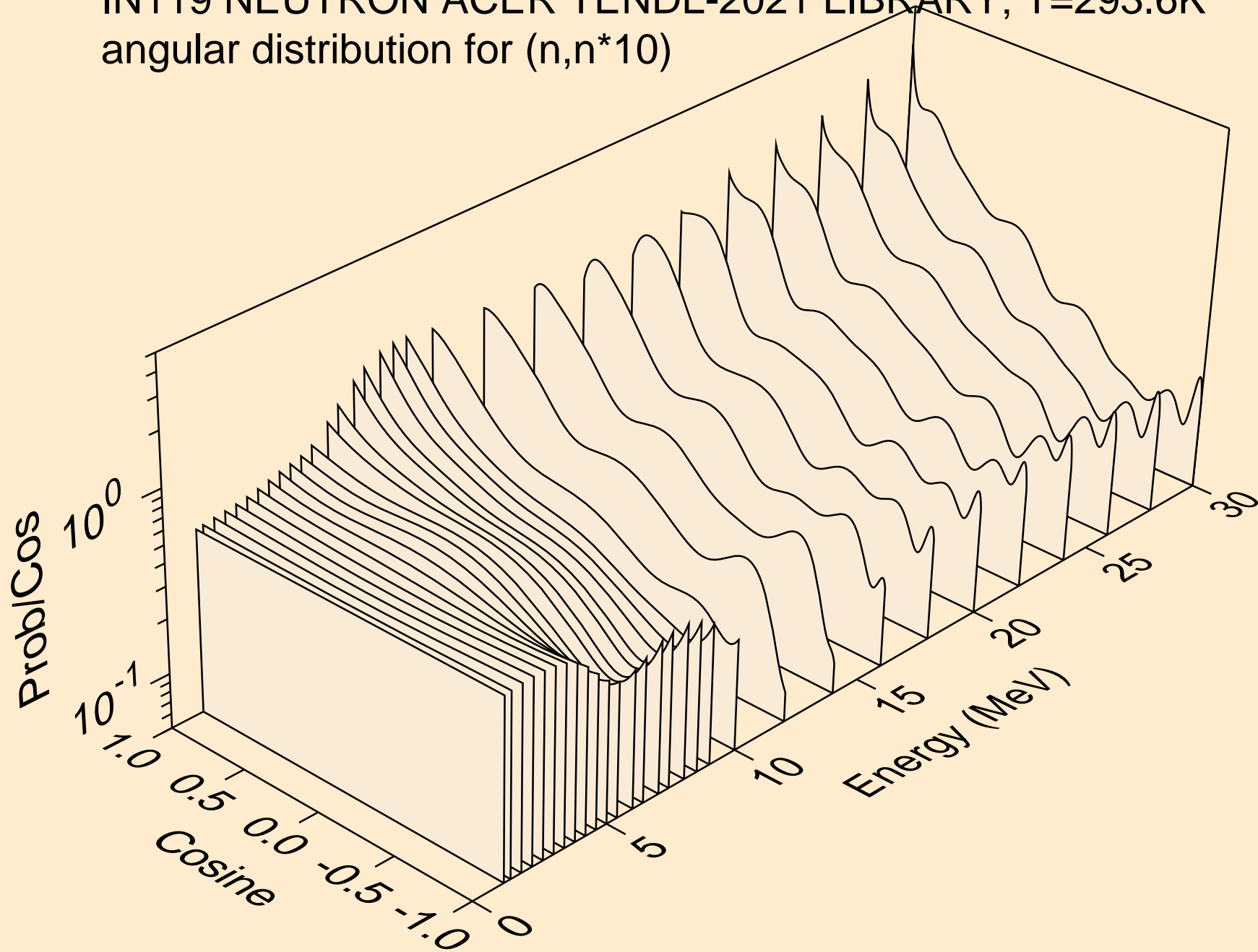
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)



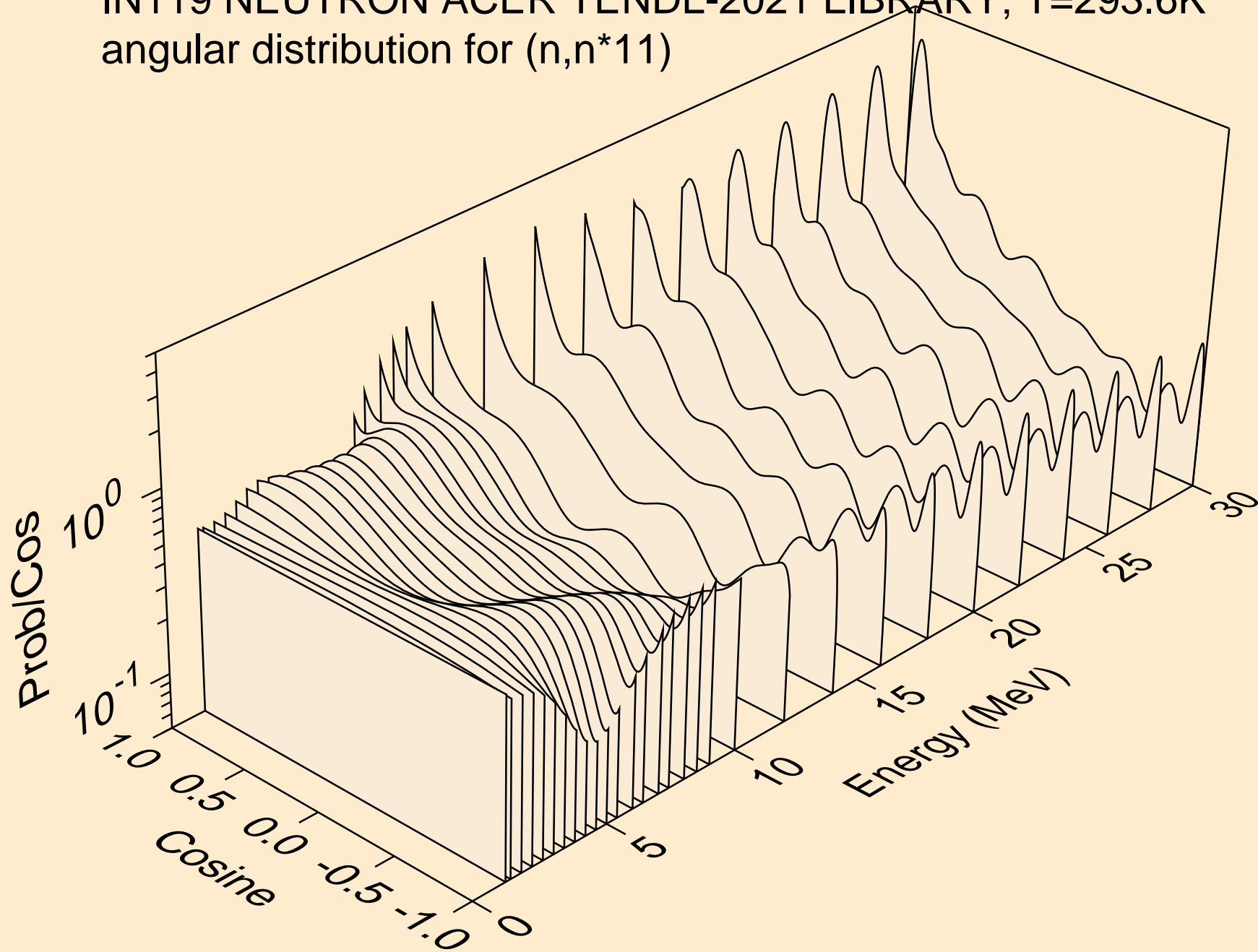
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



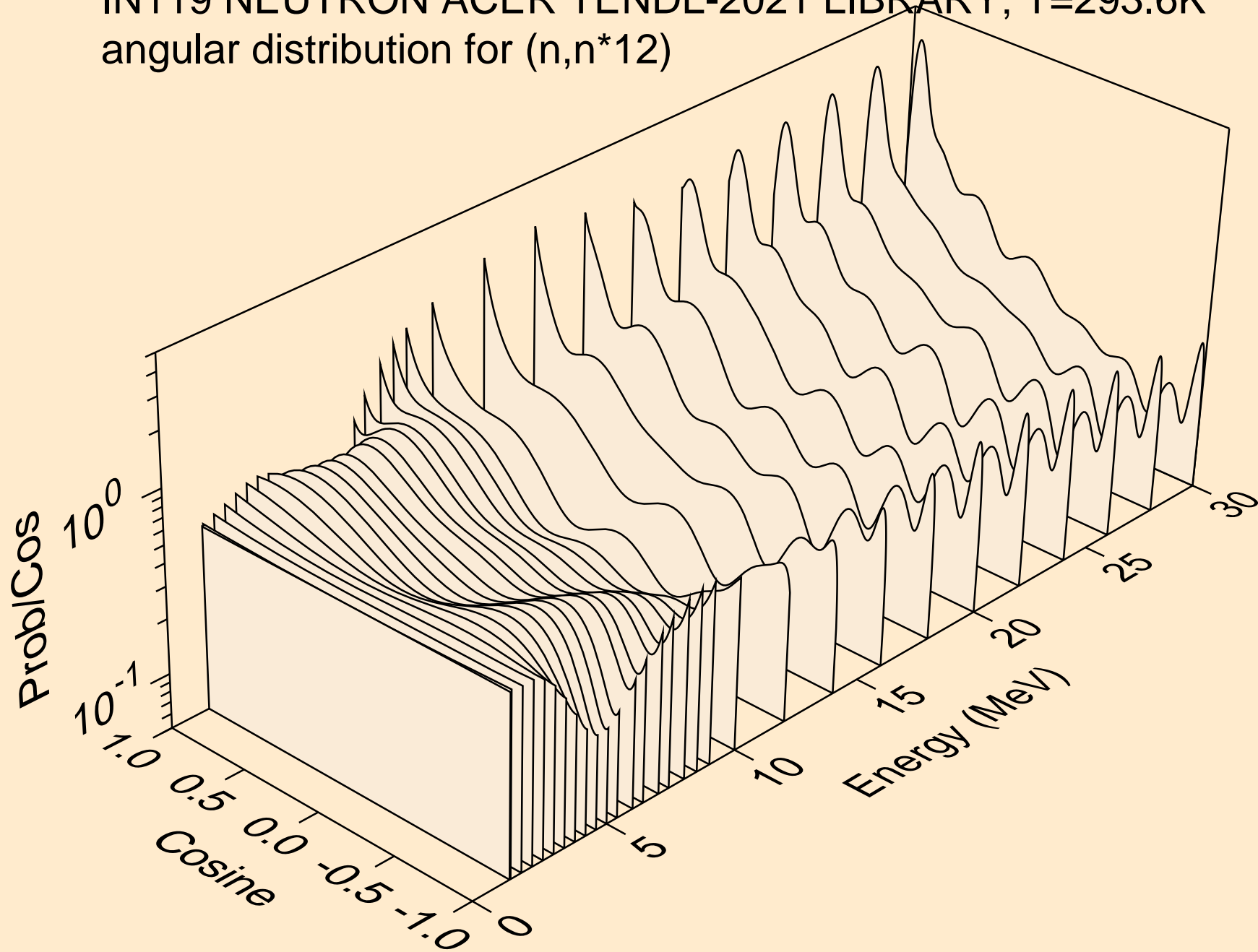
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)

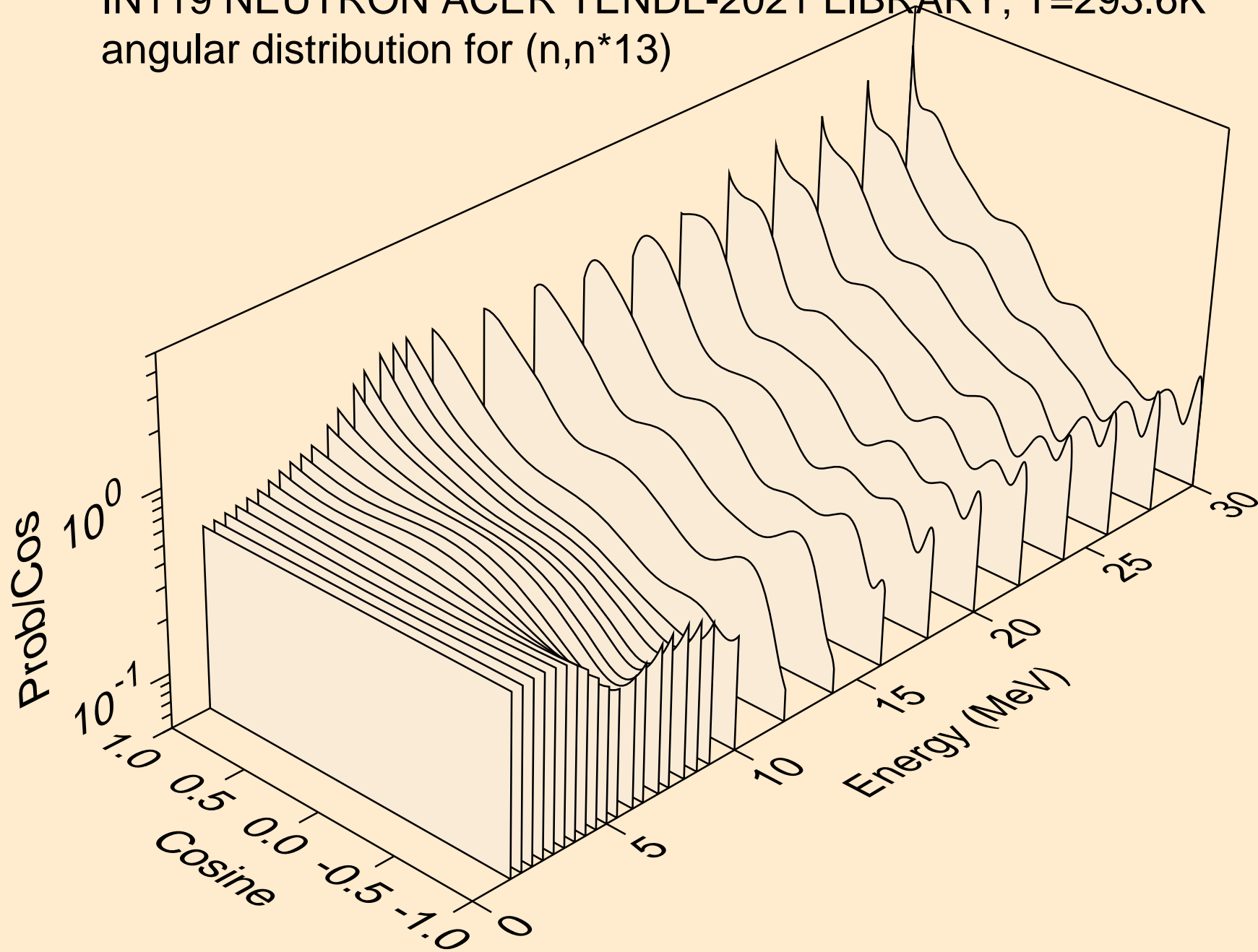


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)

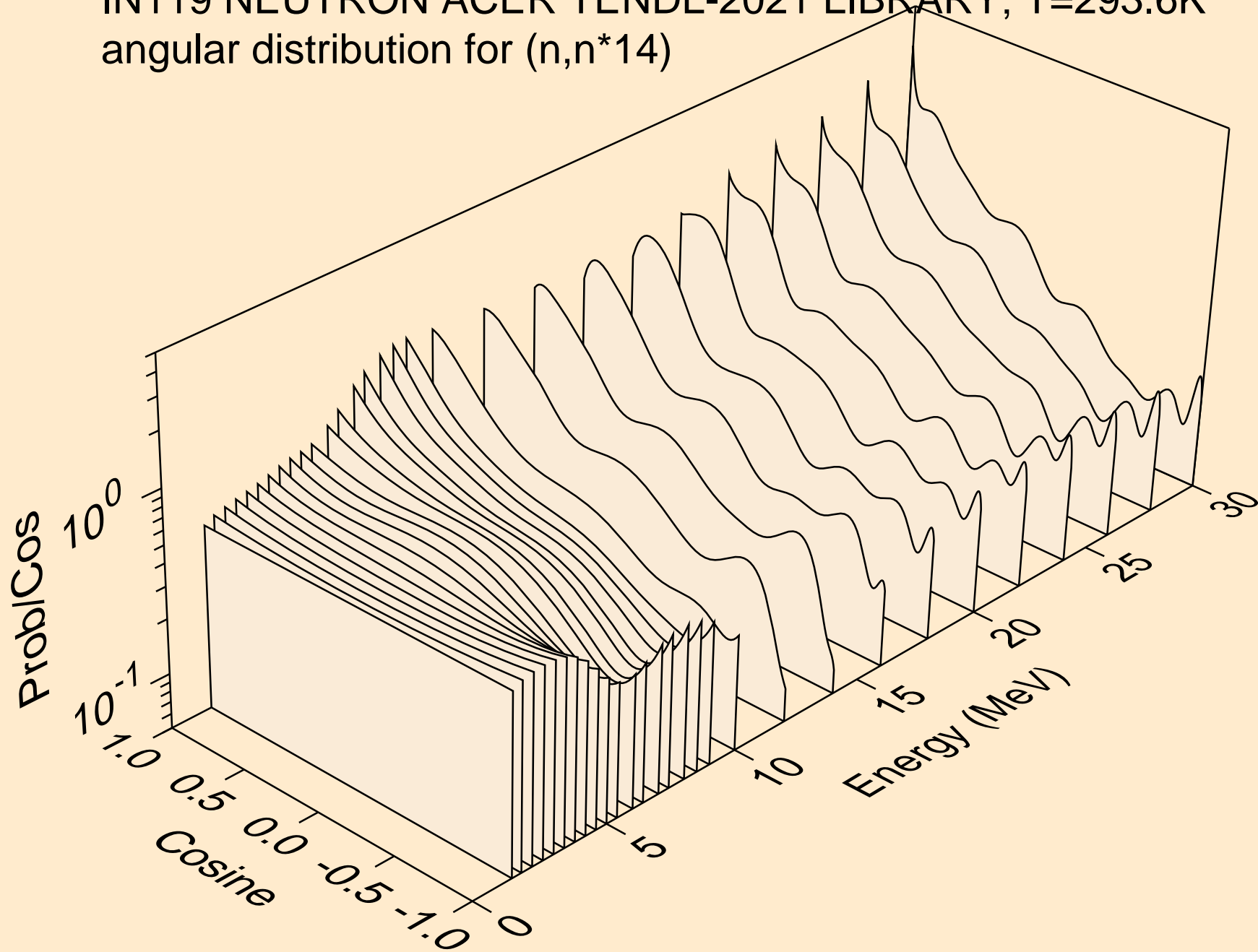




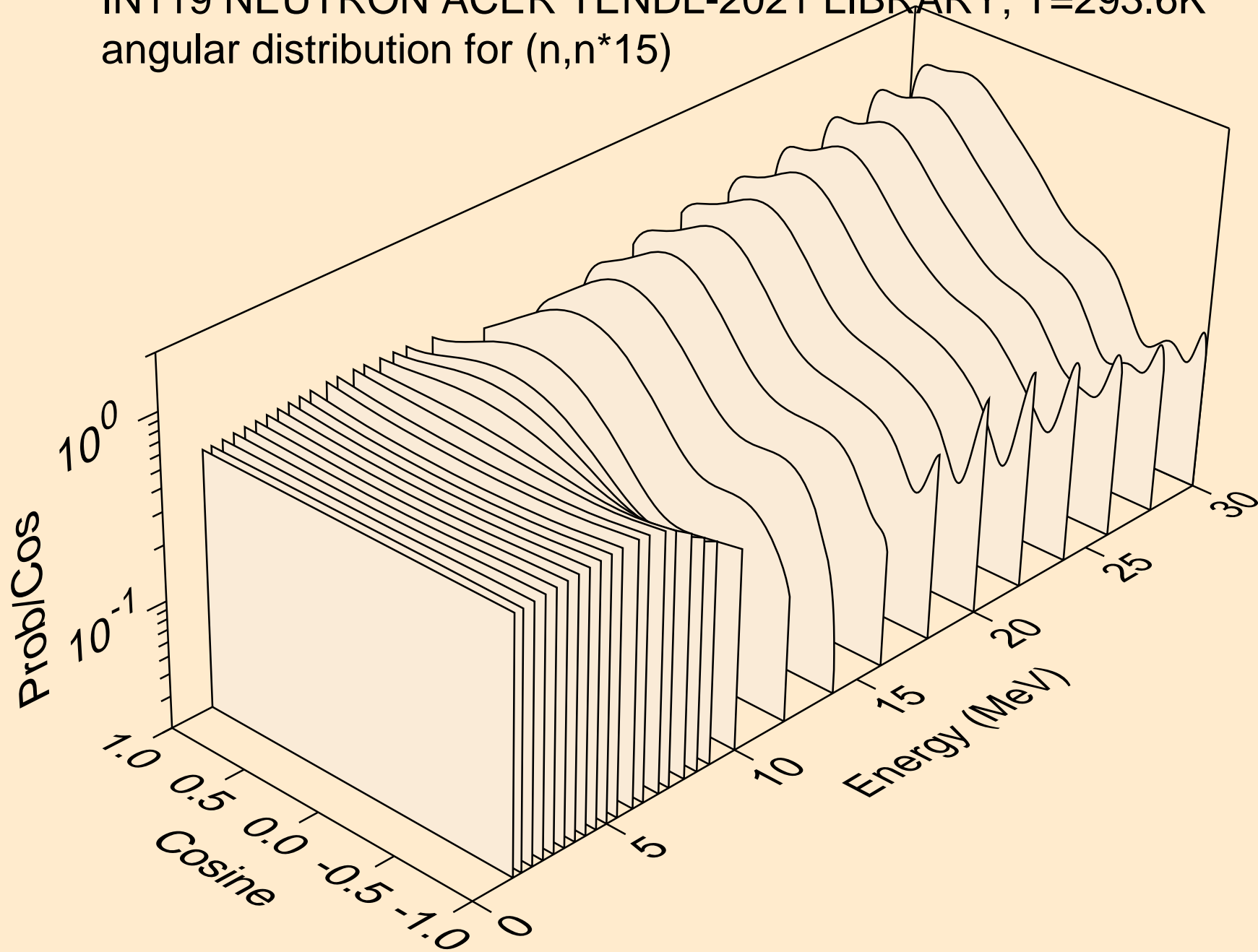
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*13)



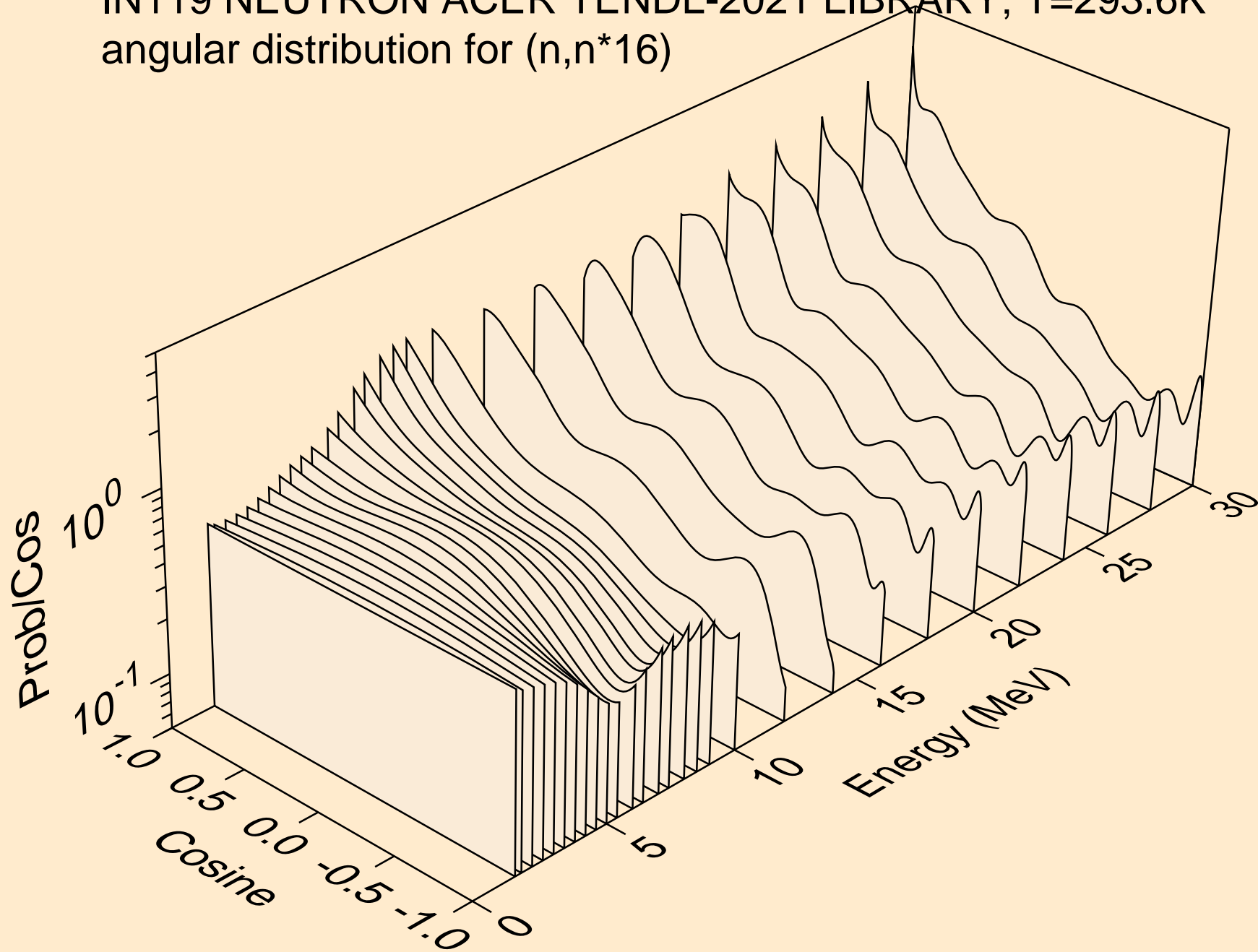
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*14)



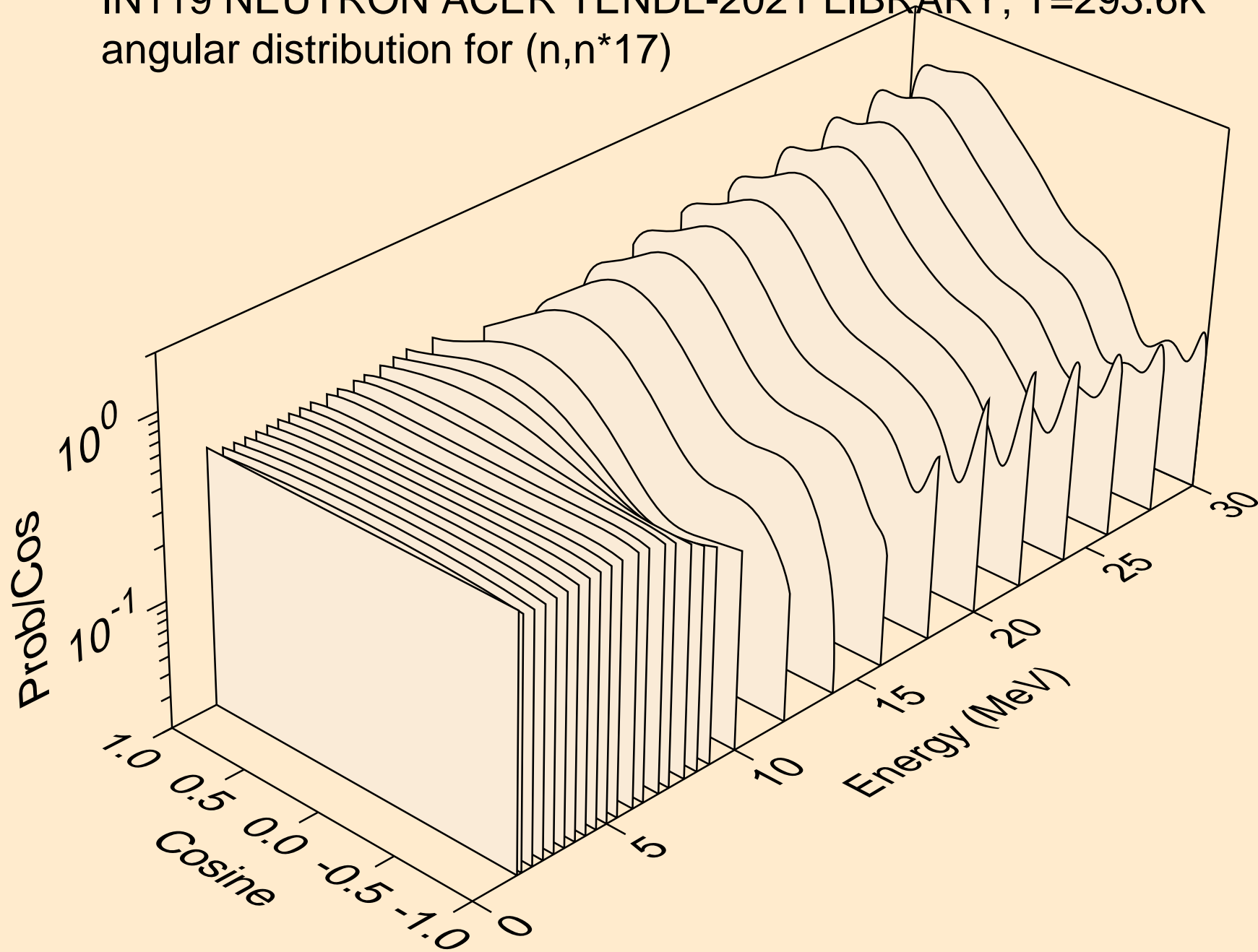
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



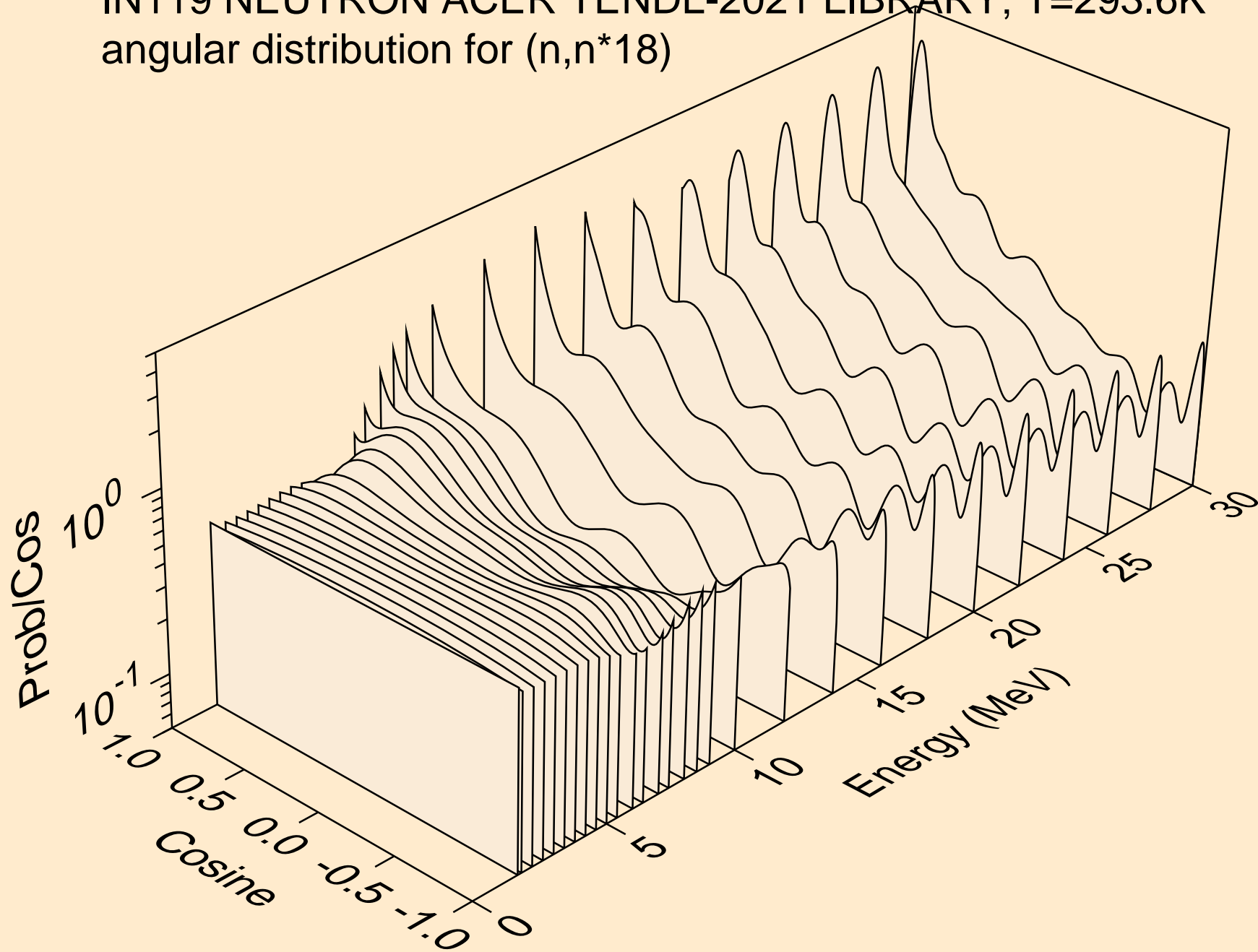
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angular distribution for (n,n\*16)



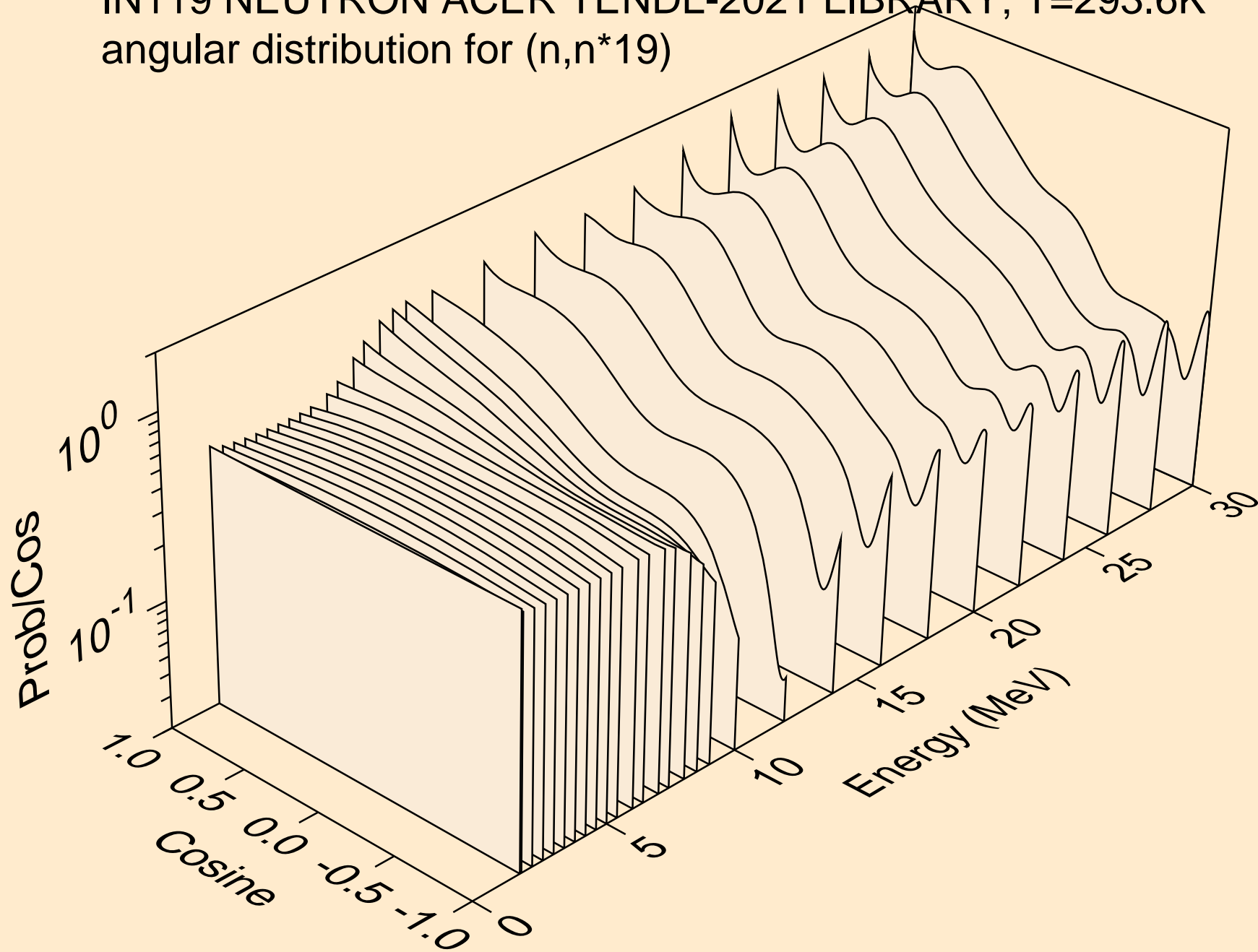
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angular distribution for (n,n\*17)



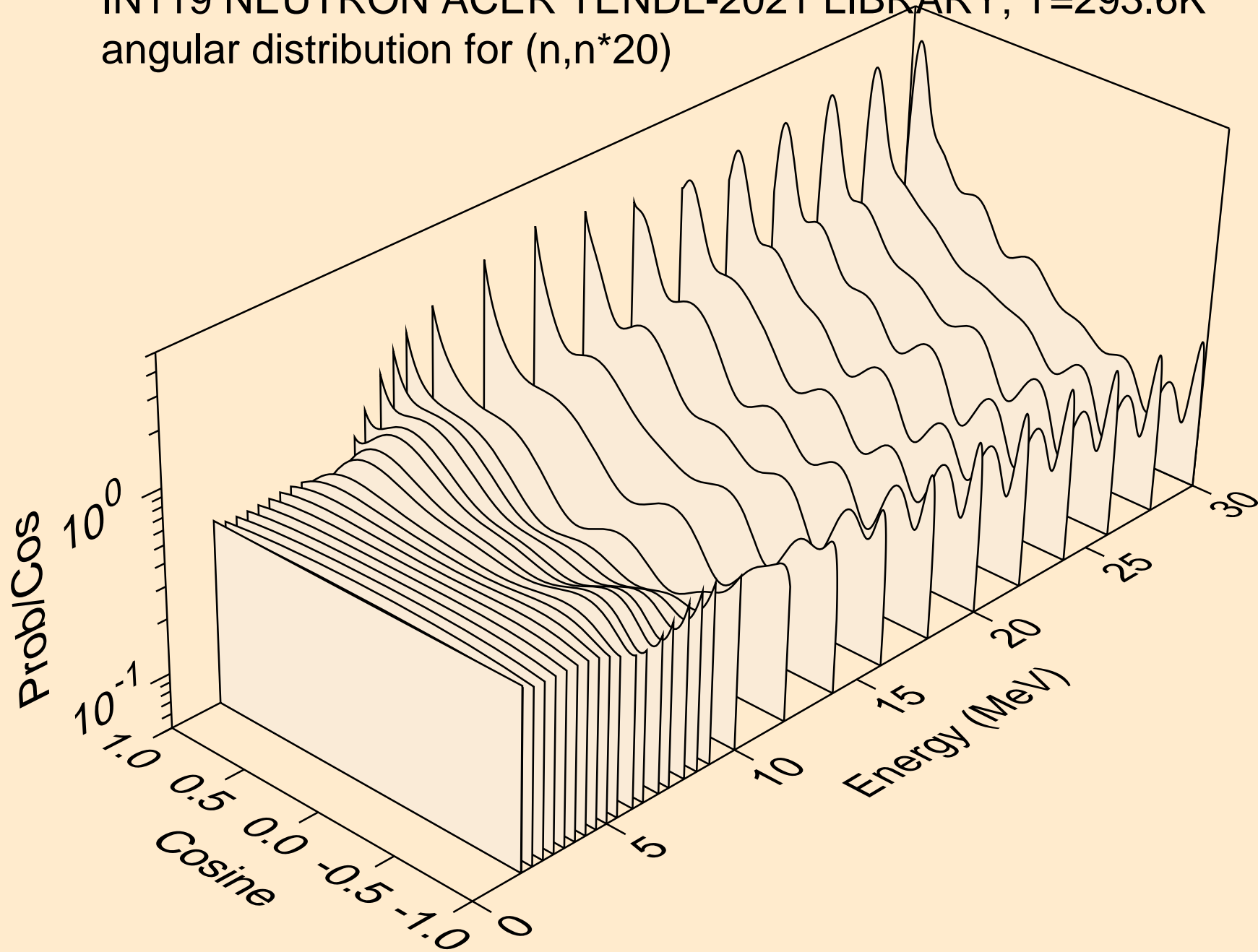
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*19)

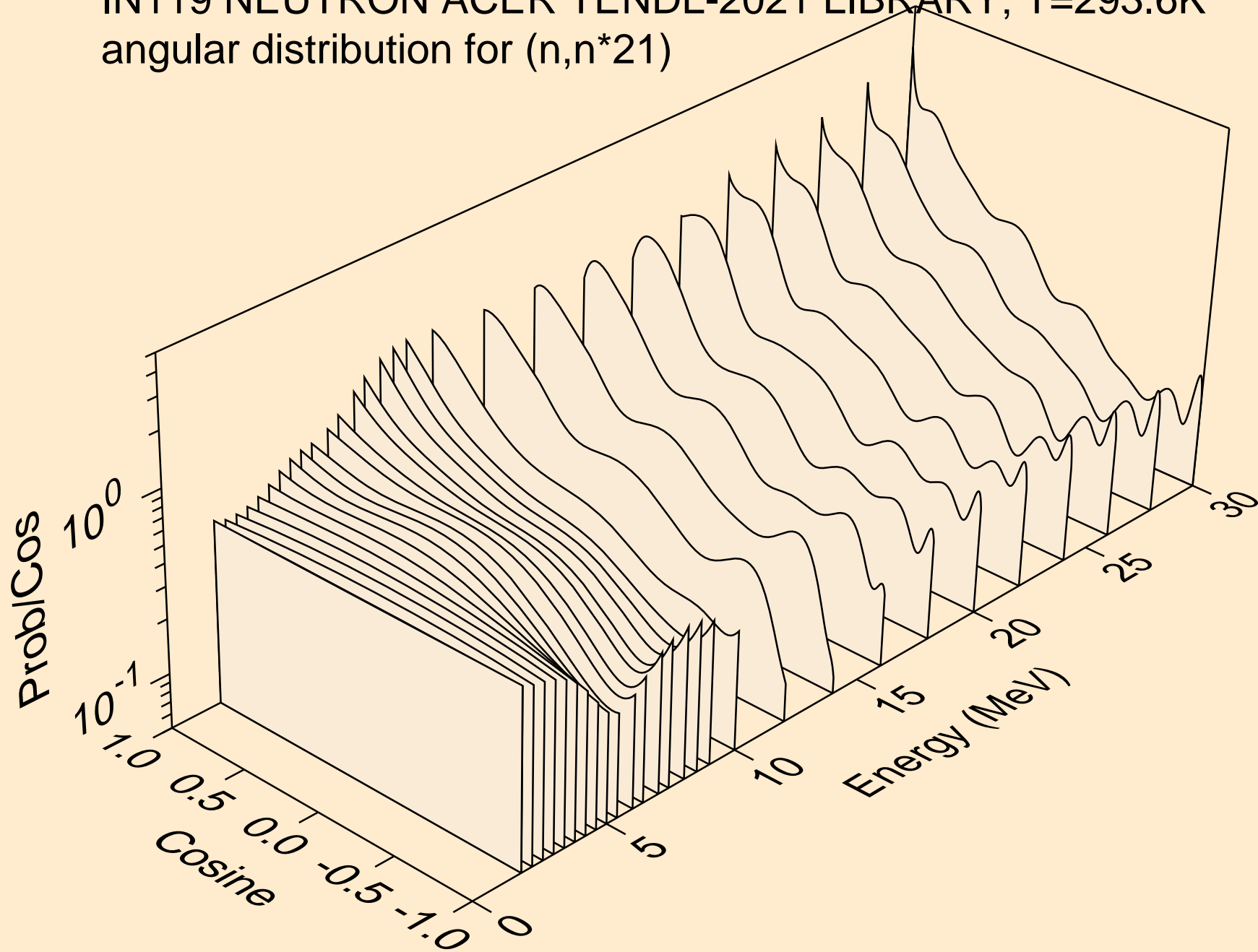


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*20)

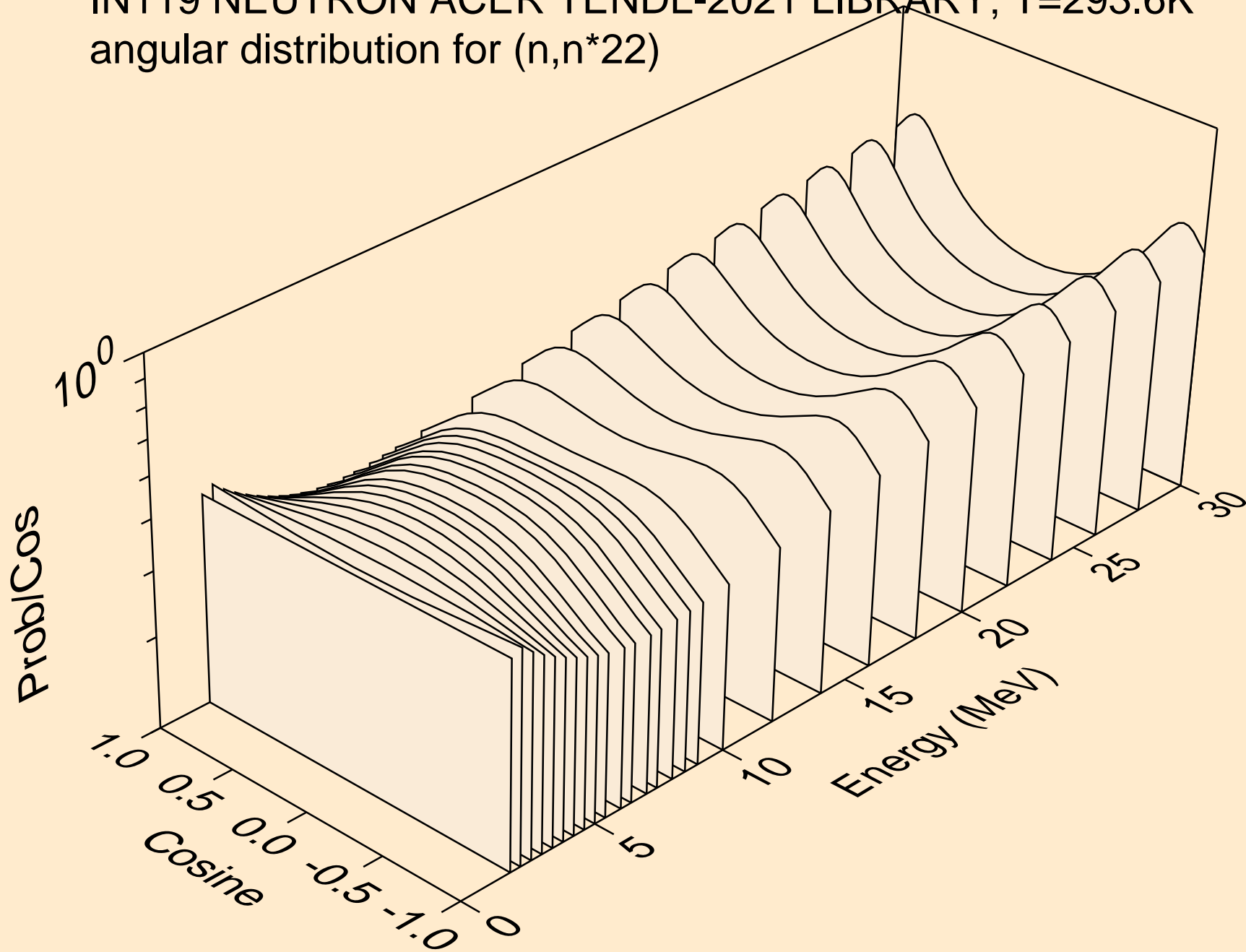




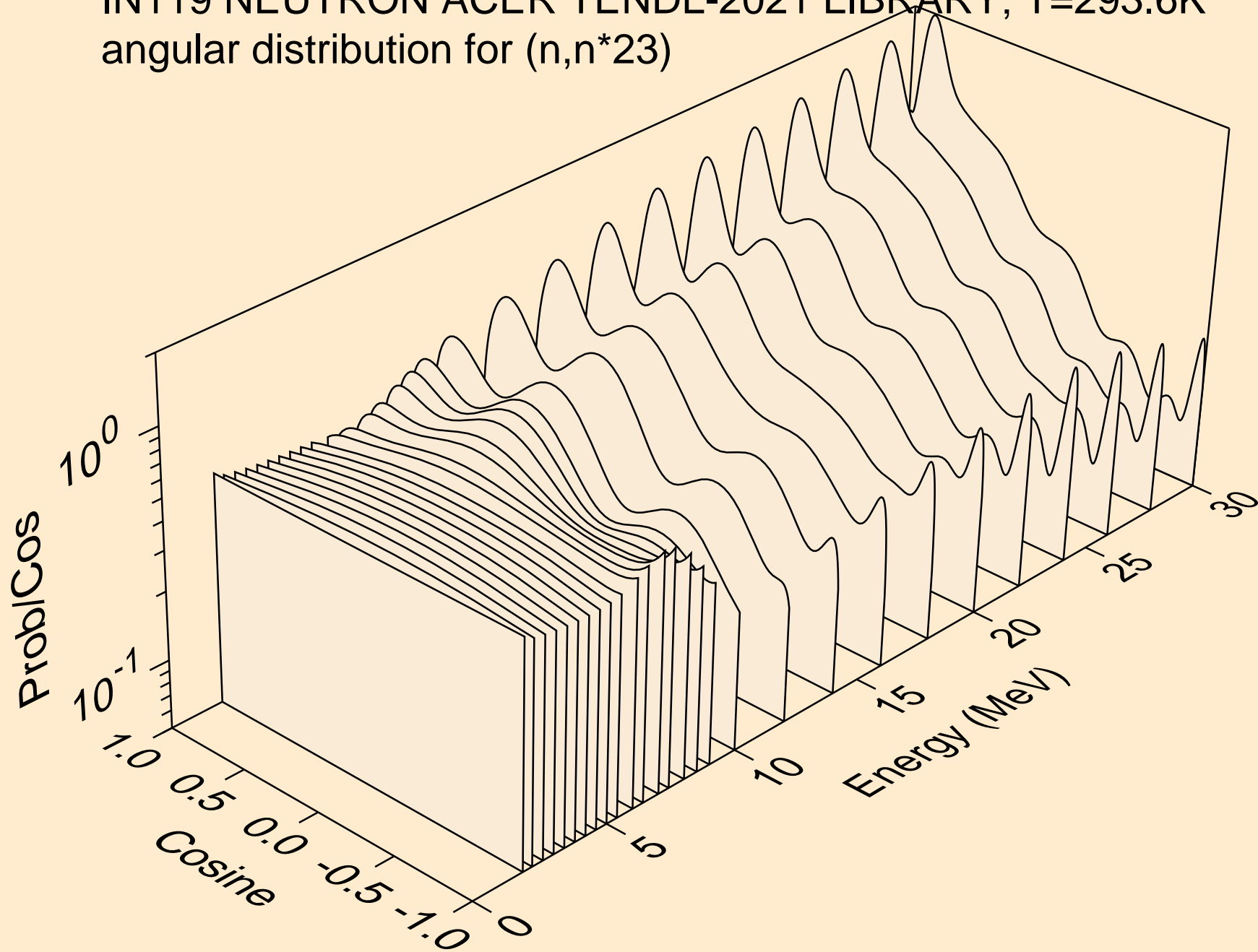
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angular distribution for (n,n\*21)



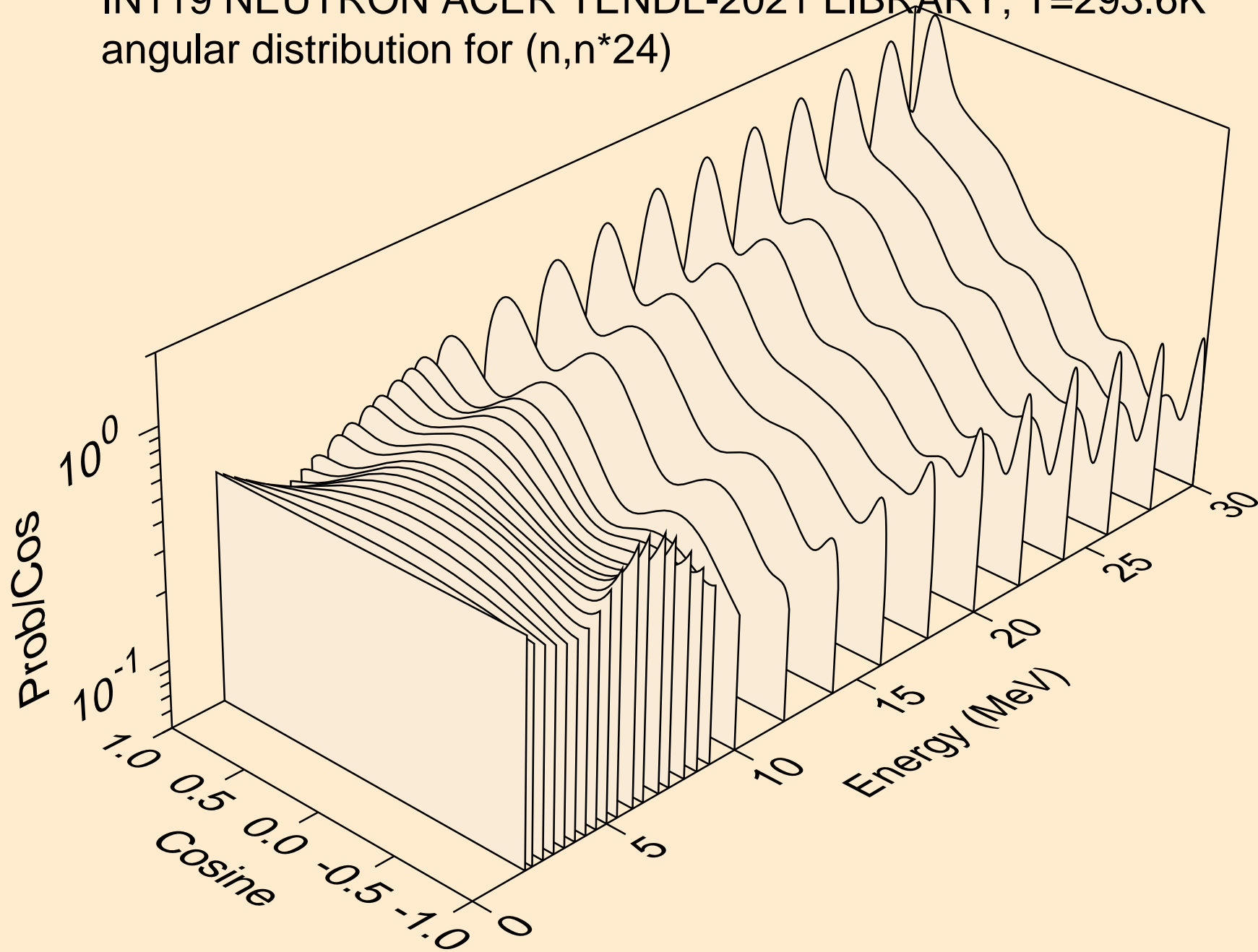
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angular distribution for (n,n\*22)



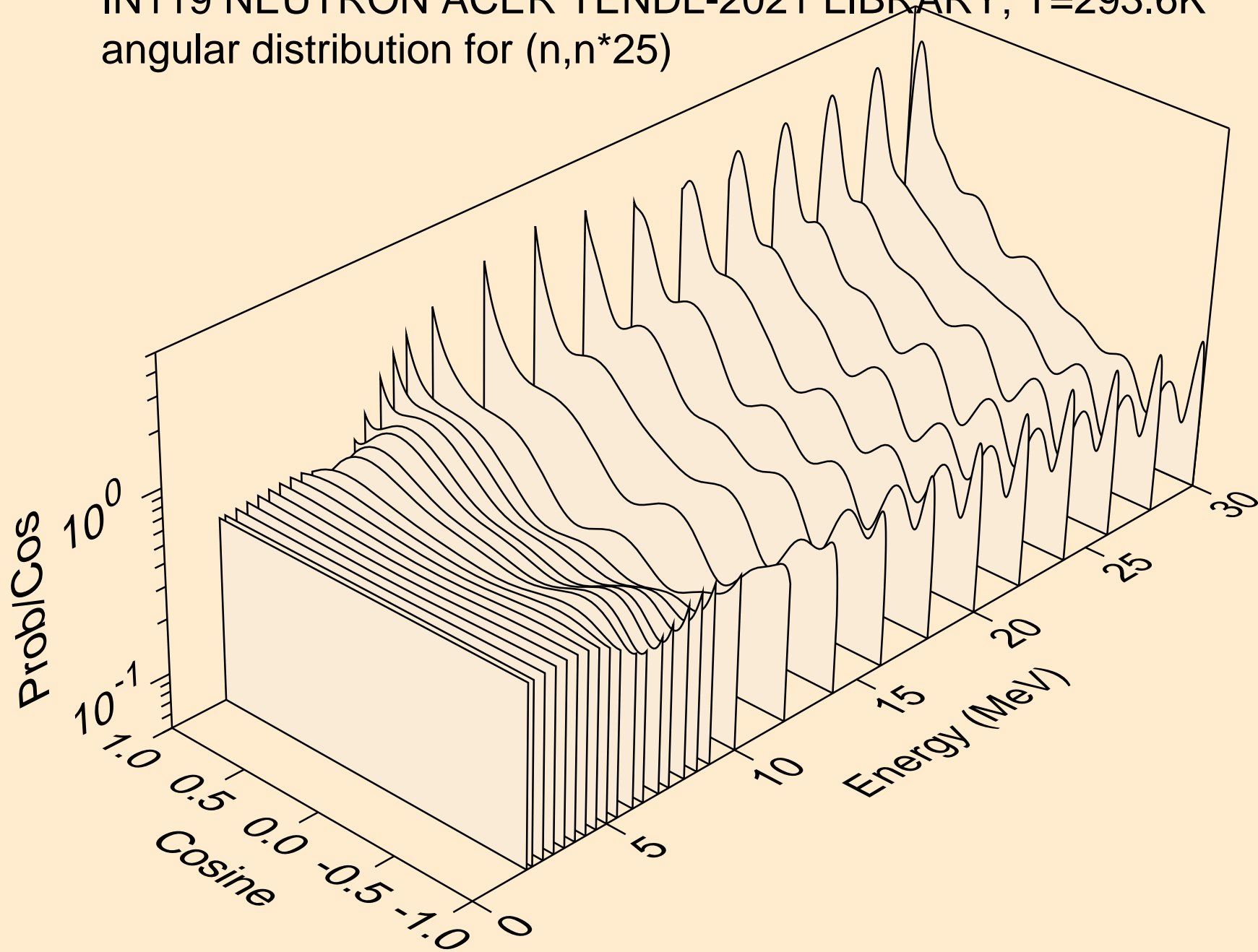
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angular distribution for (n,n\*23)



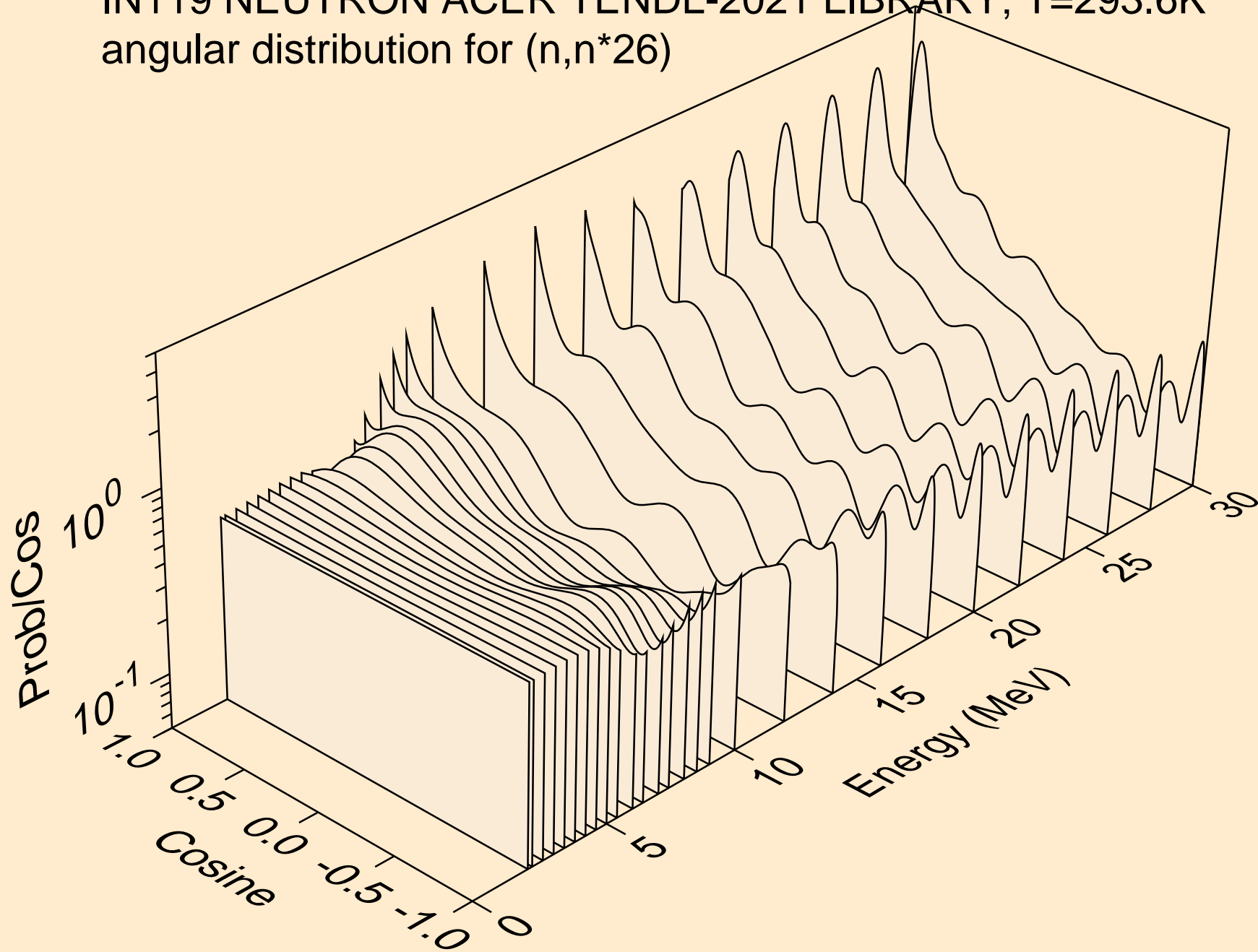
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



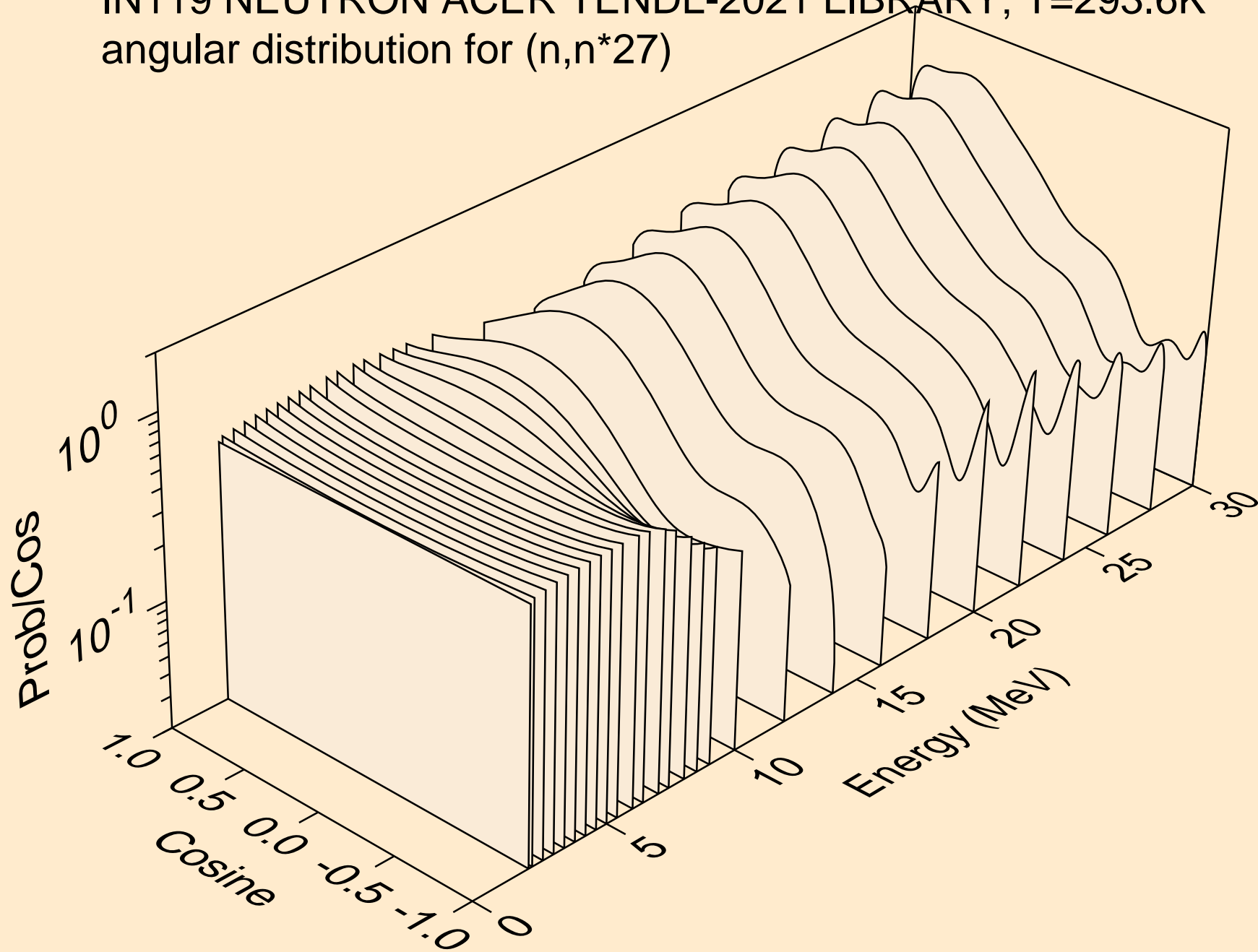
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)



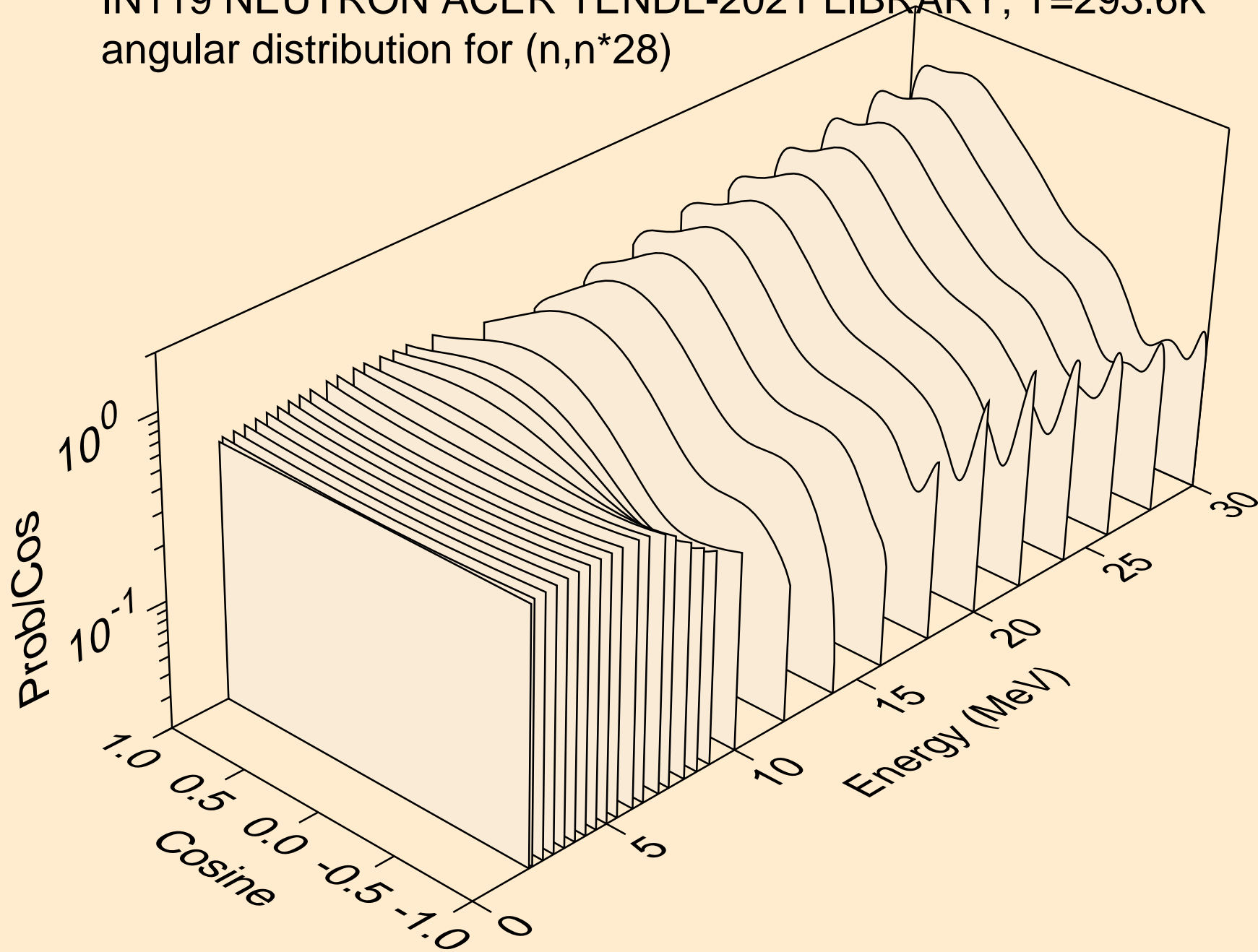
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)

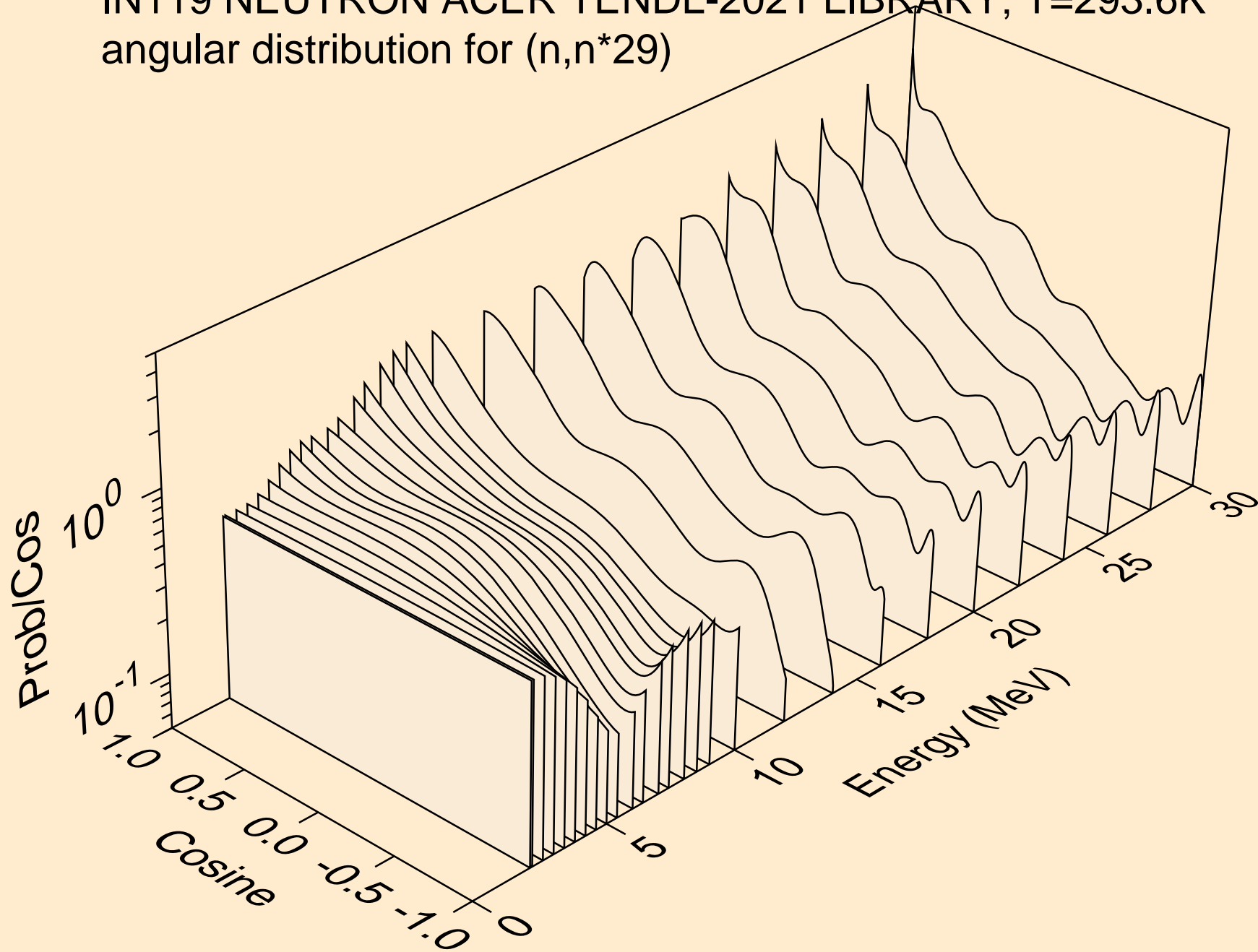


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)

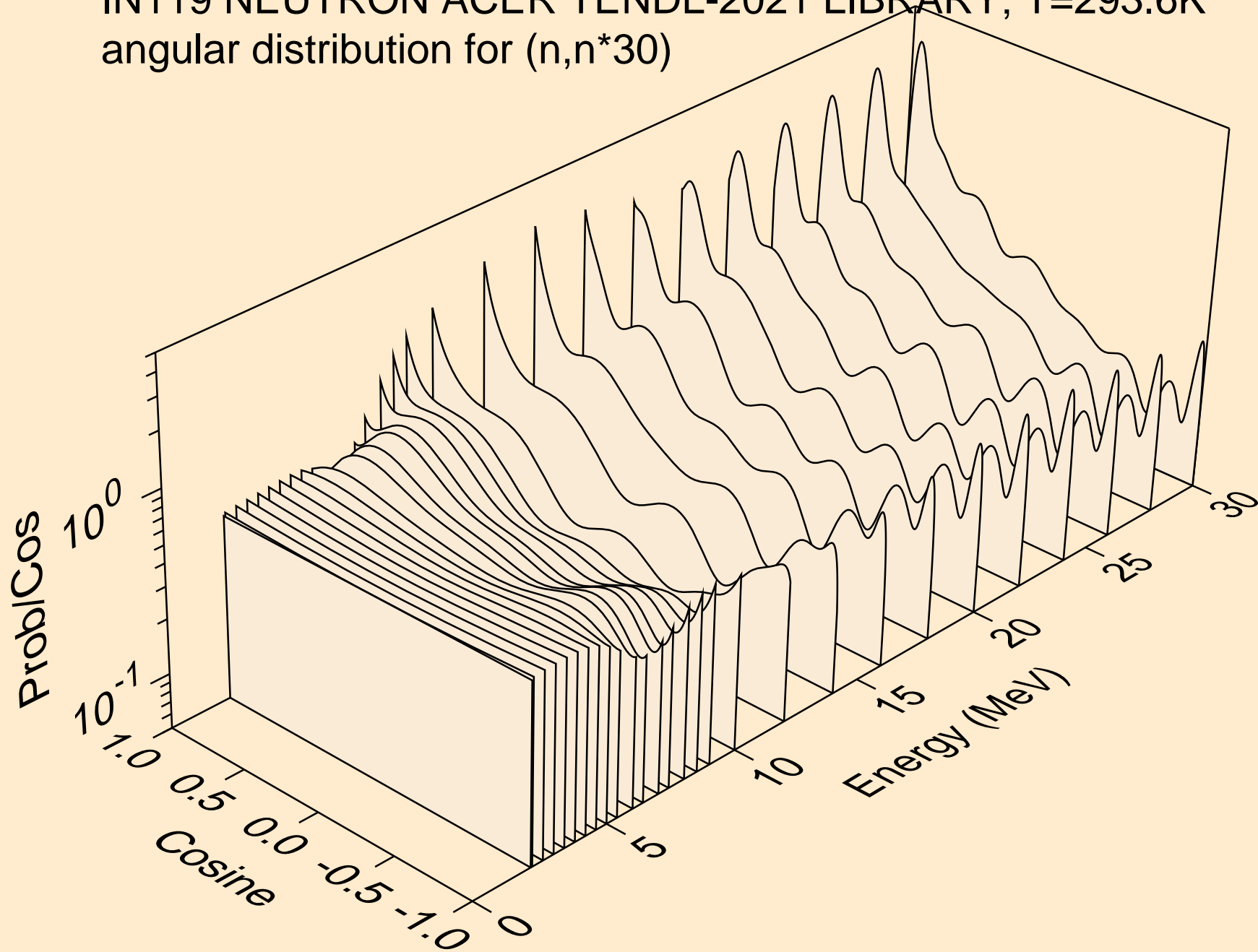




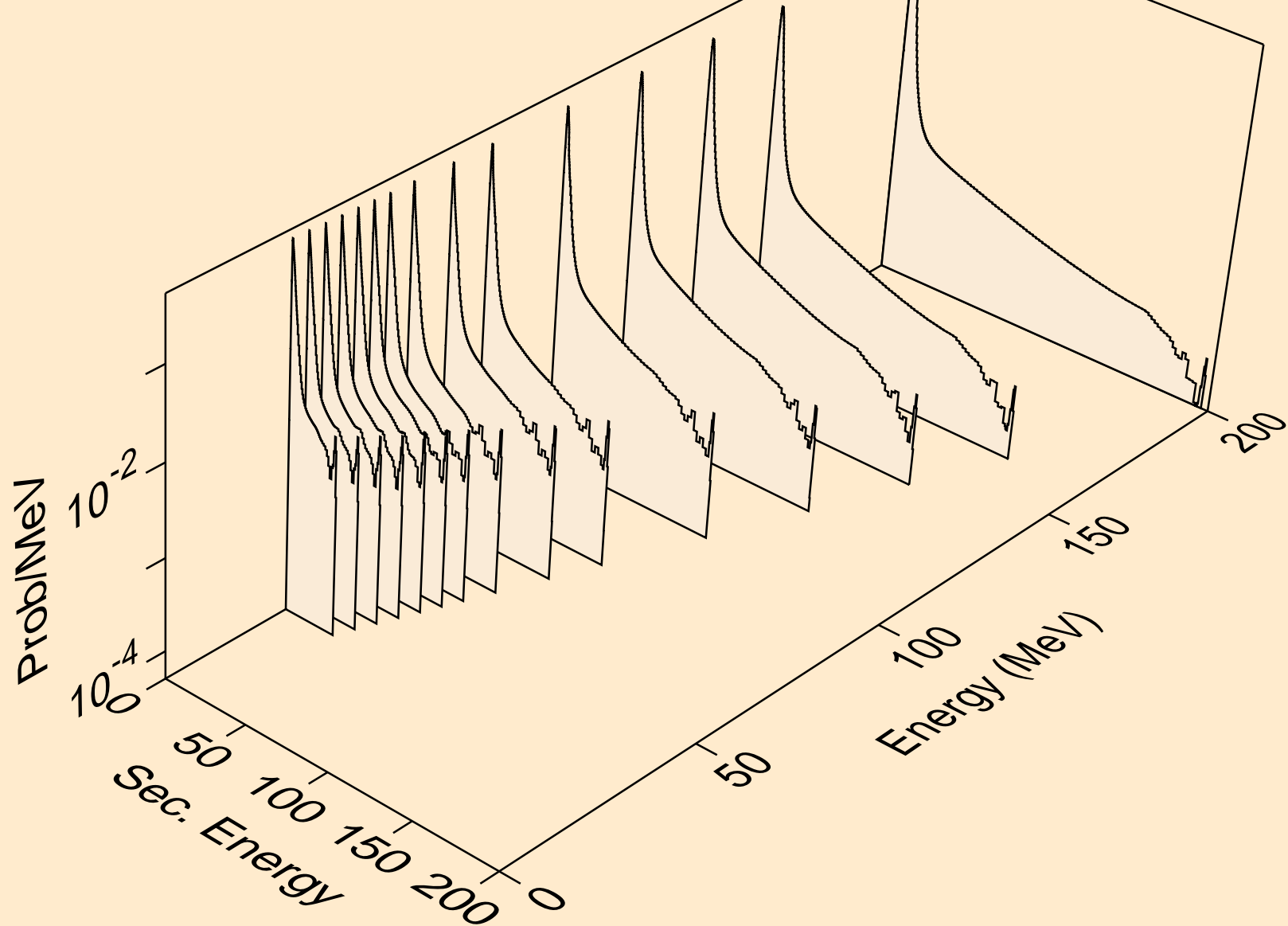
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



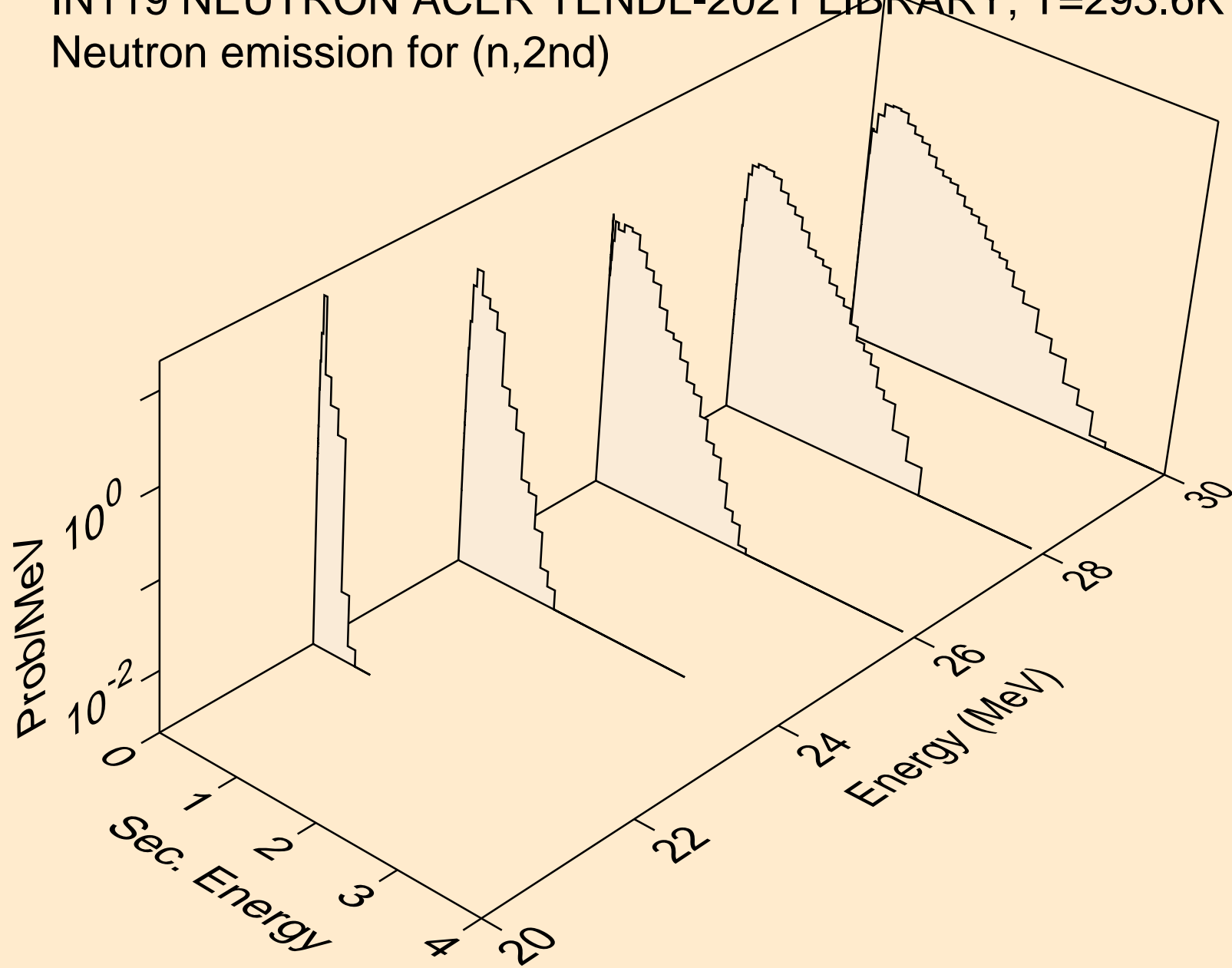
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*30)



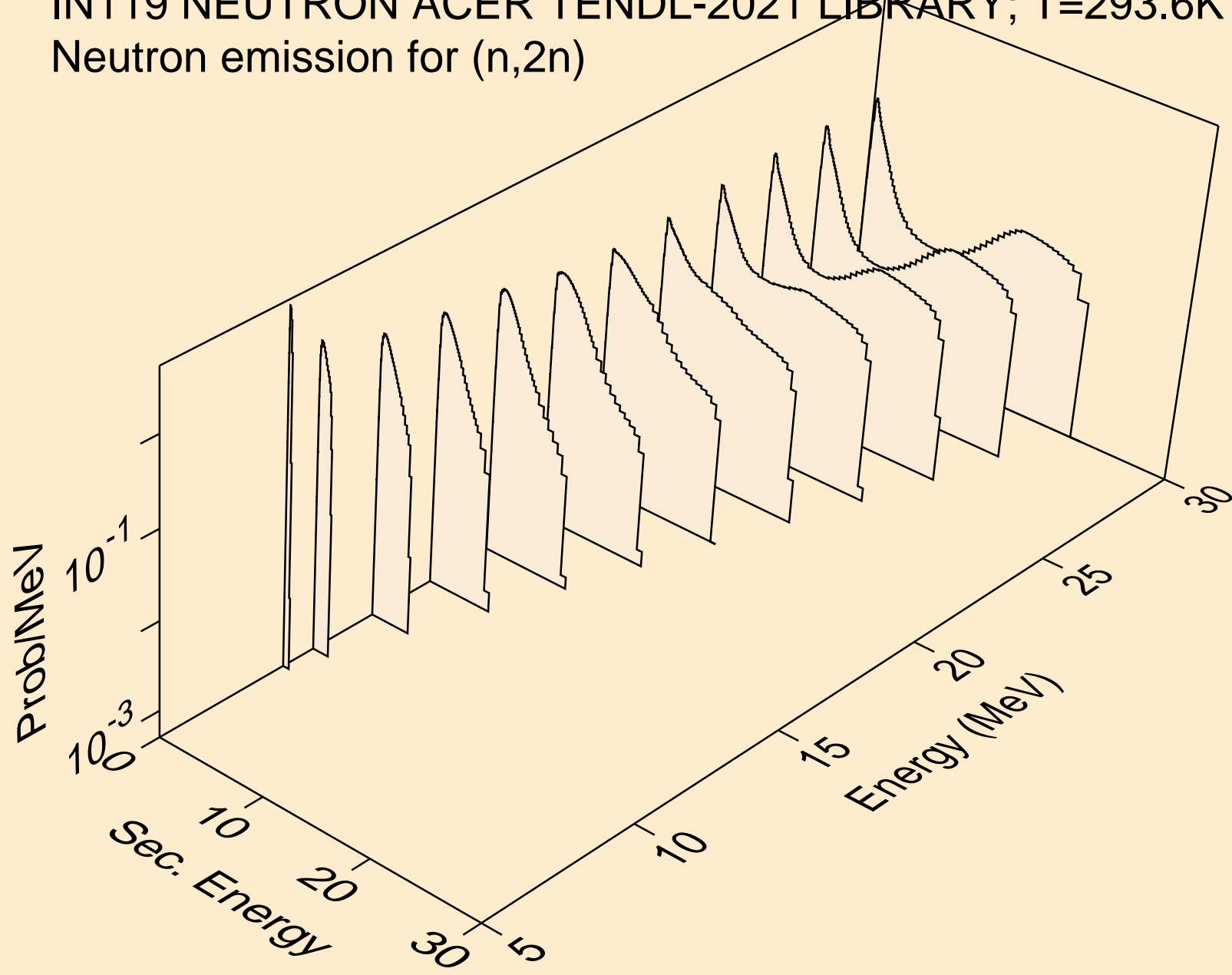
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



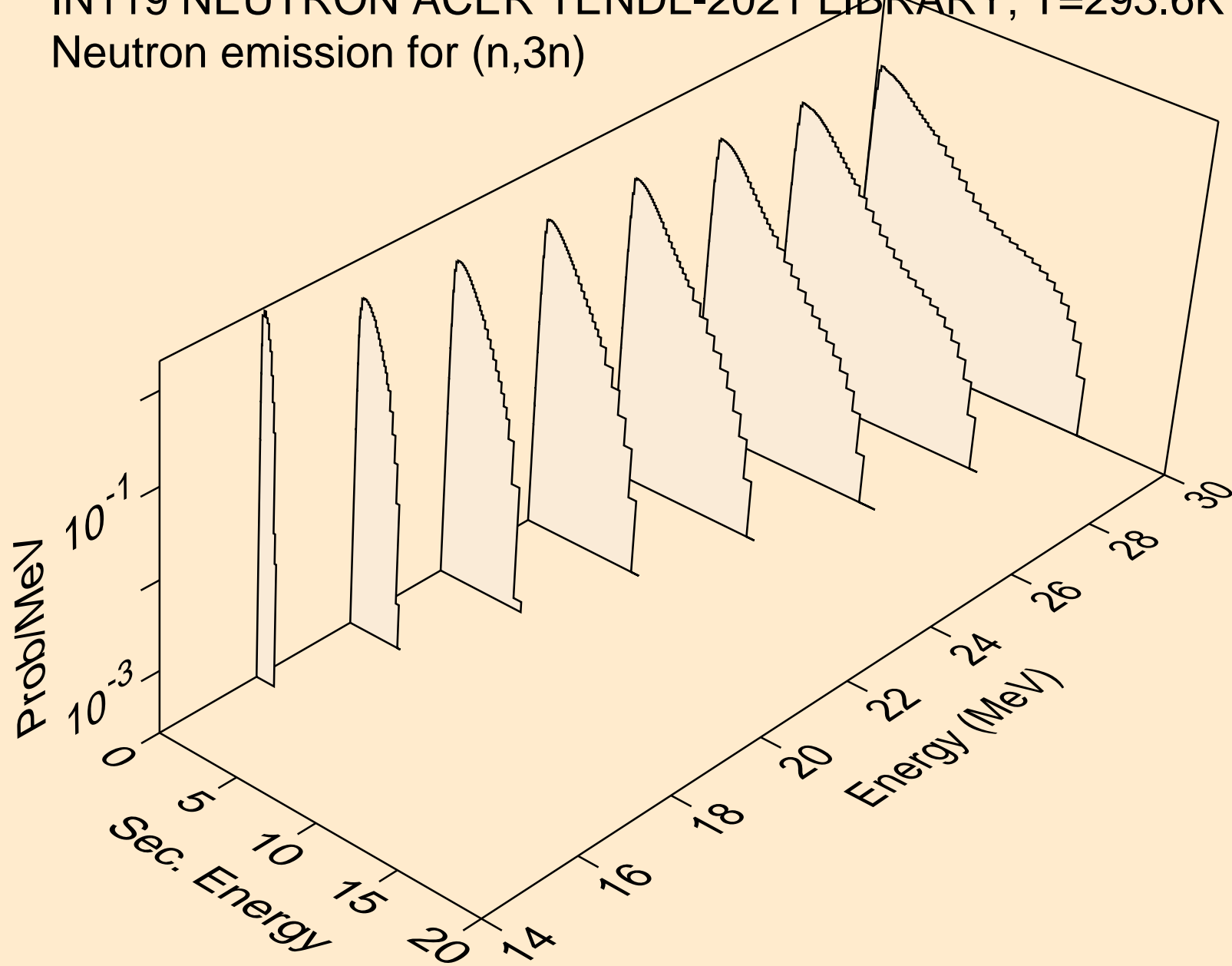
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



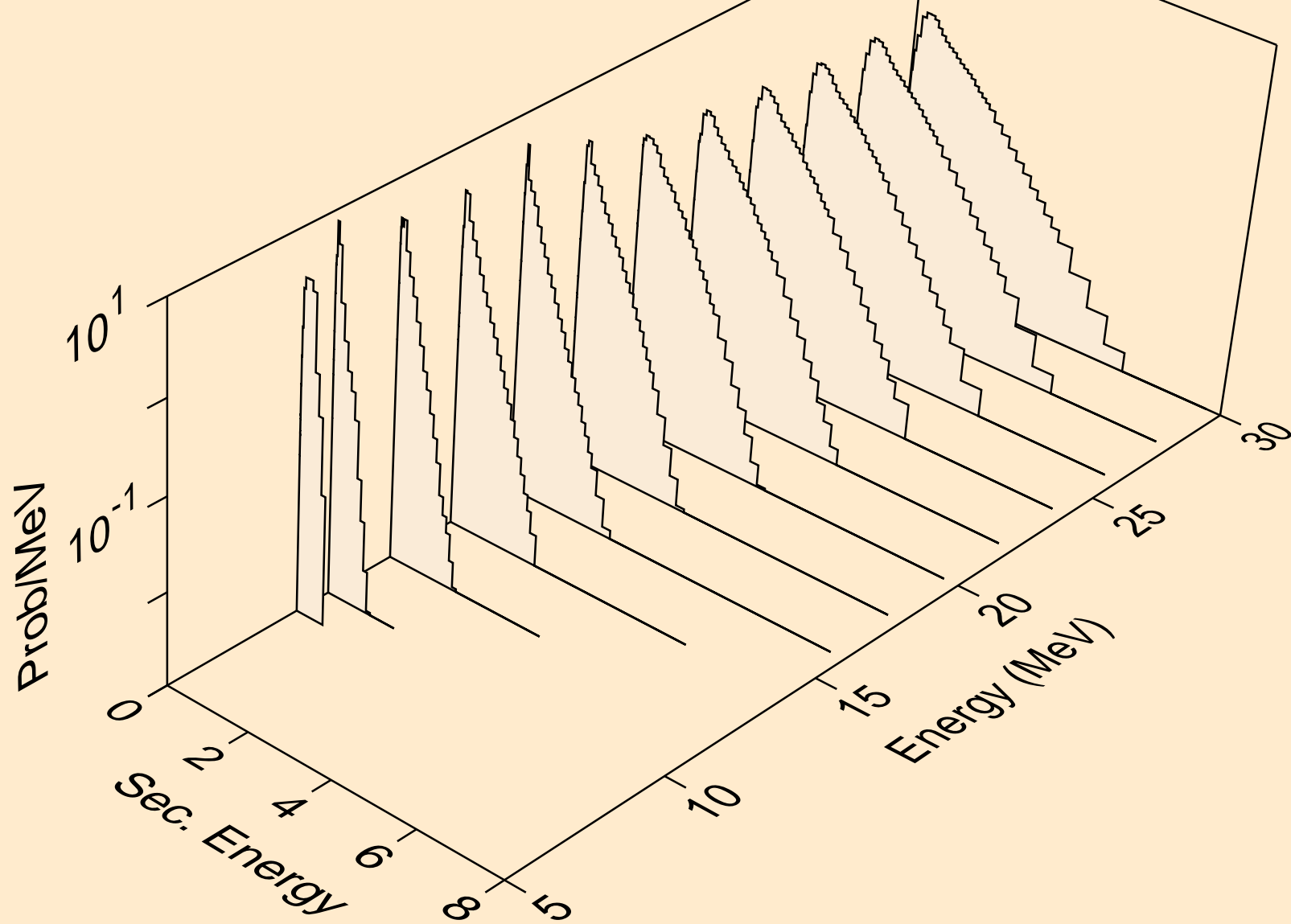
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



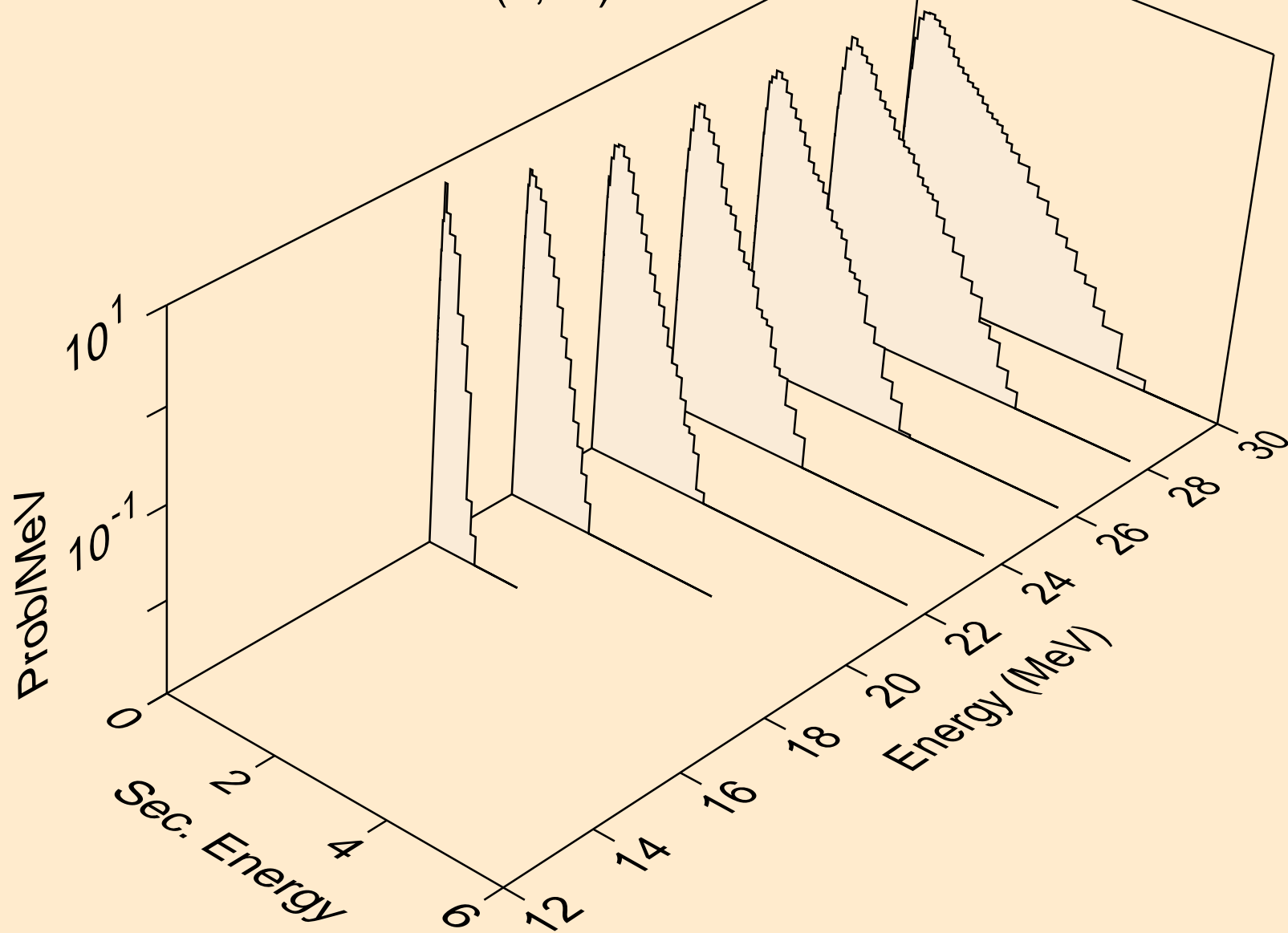
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a

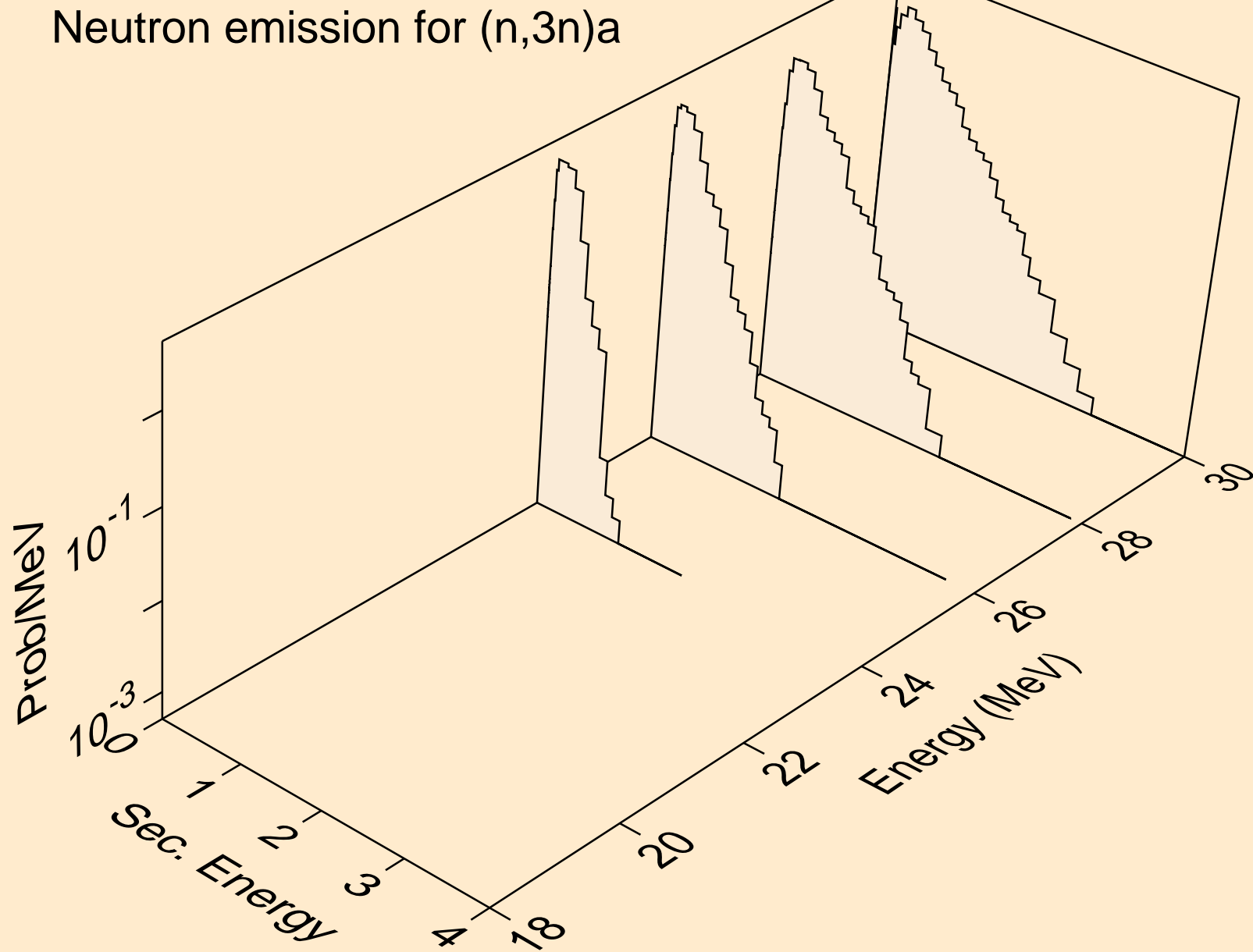


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a

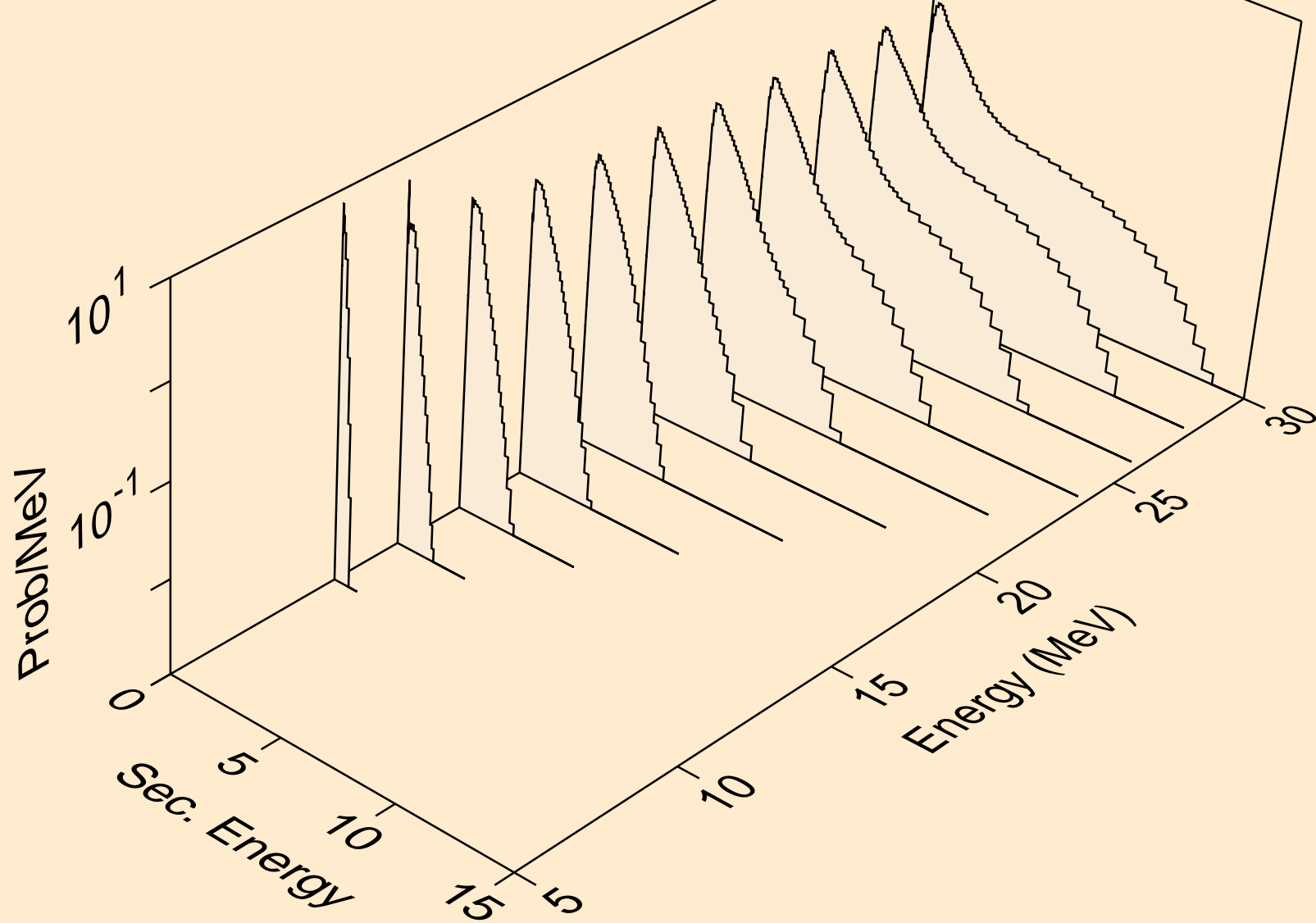




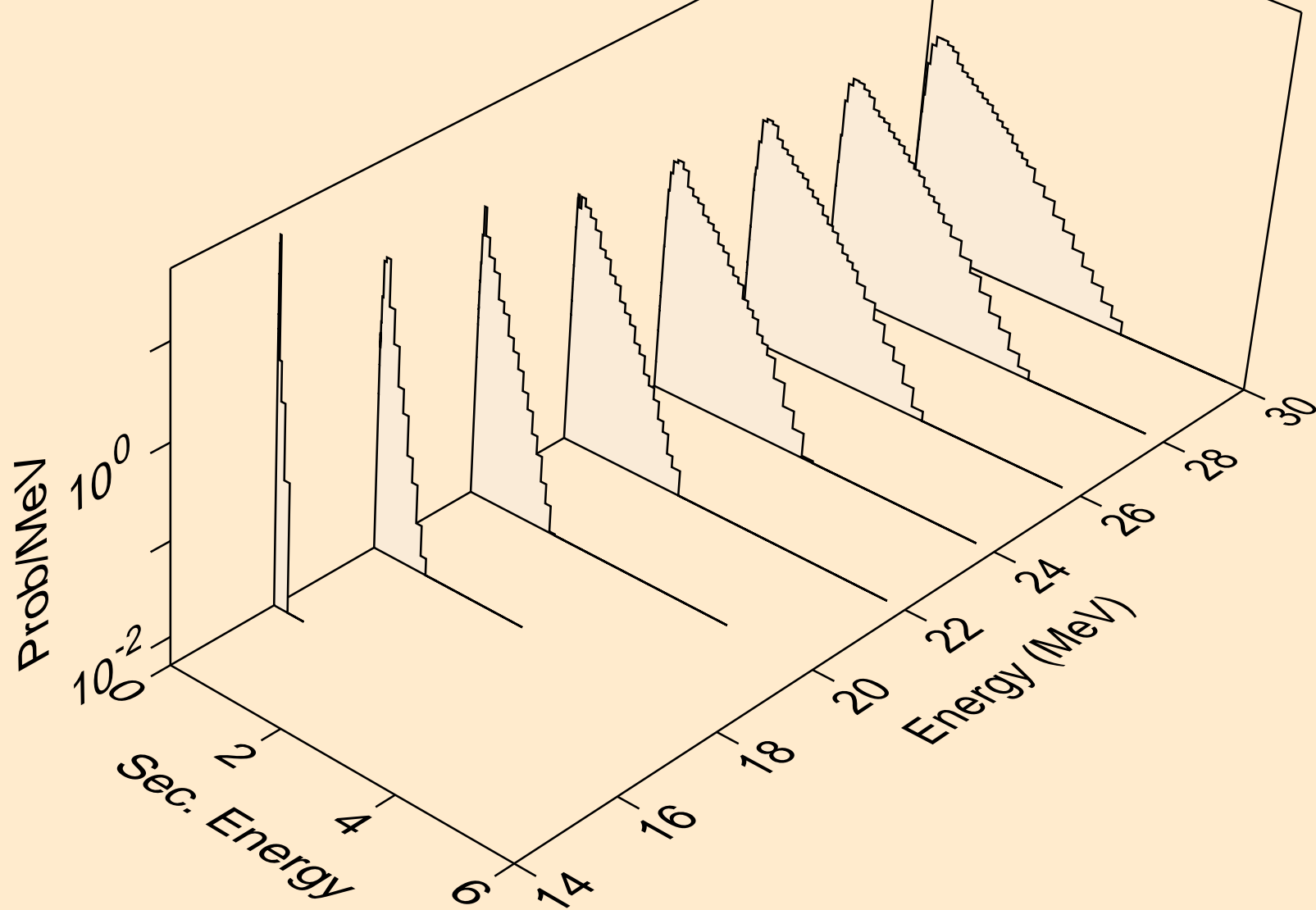
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



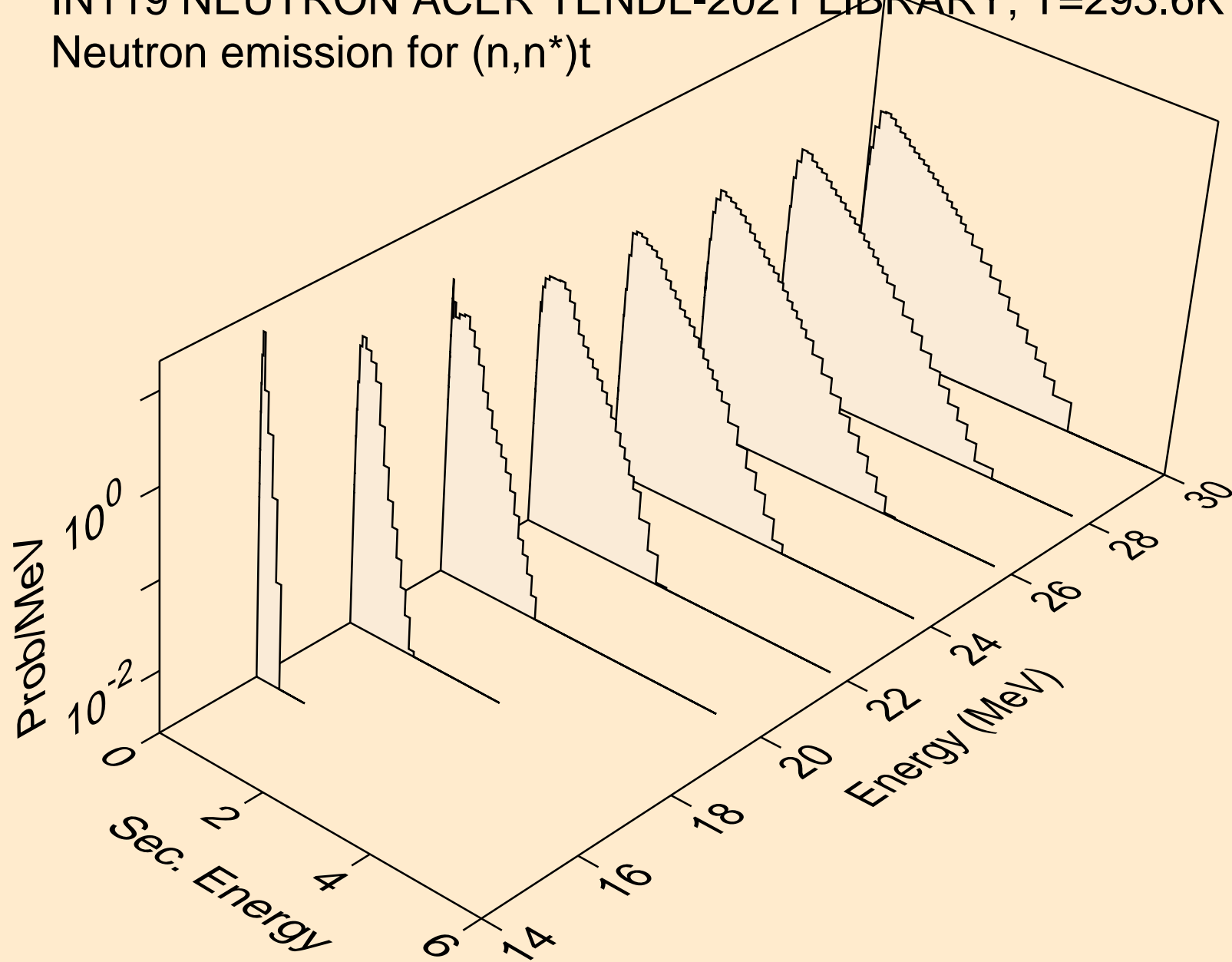
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



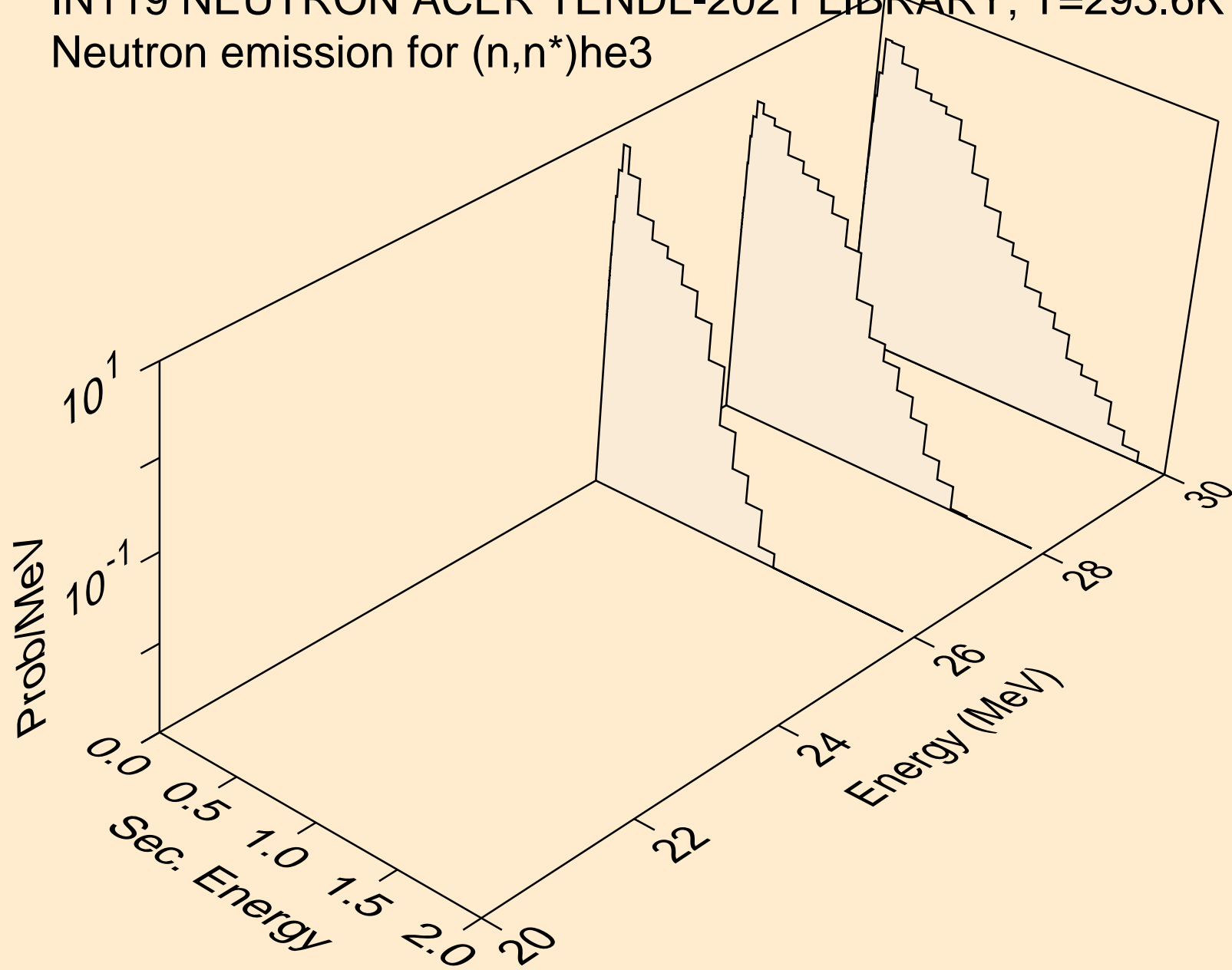
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



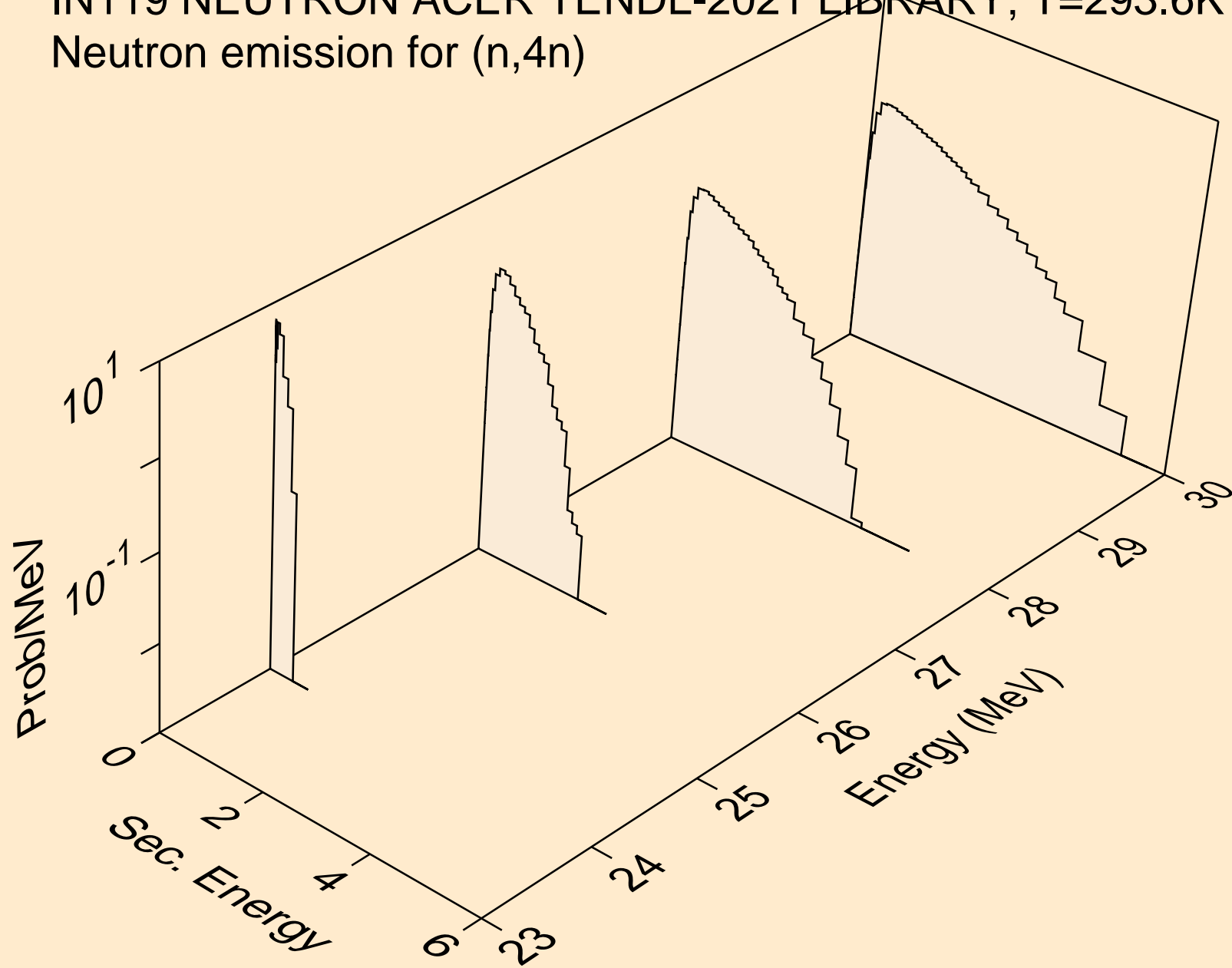
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



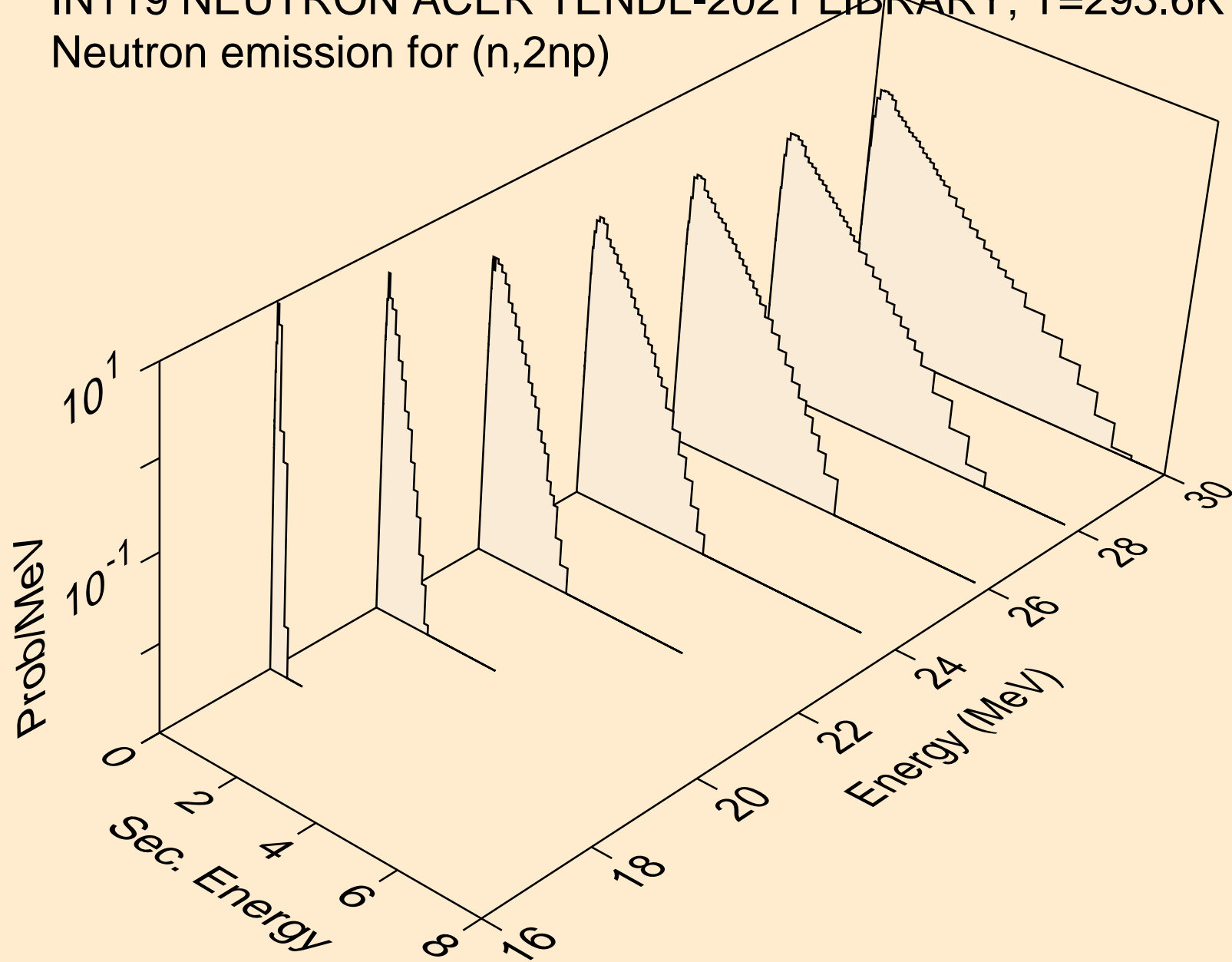
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



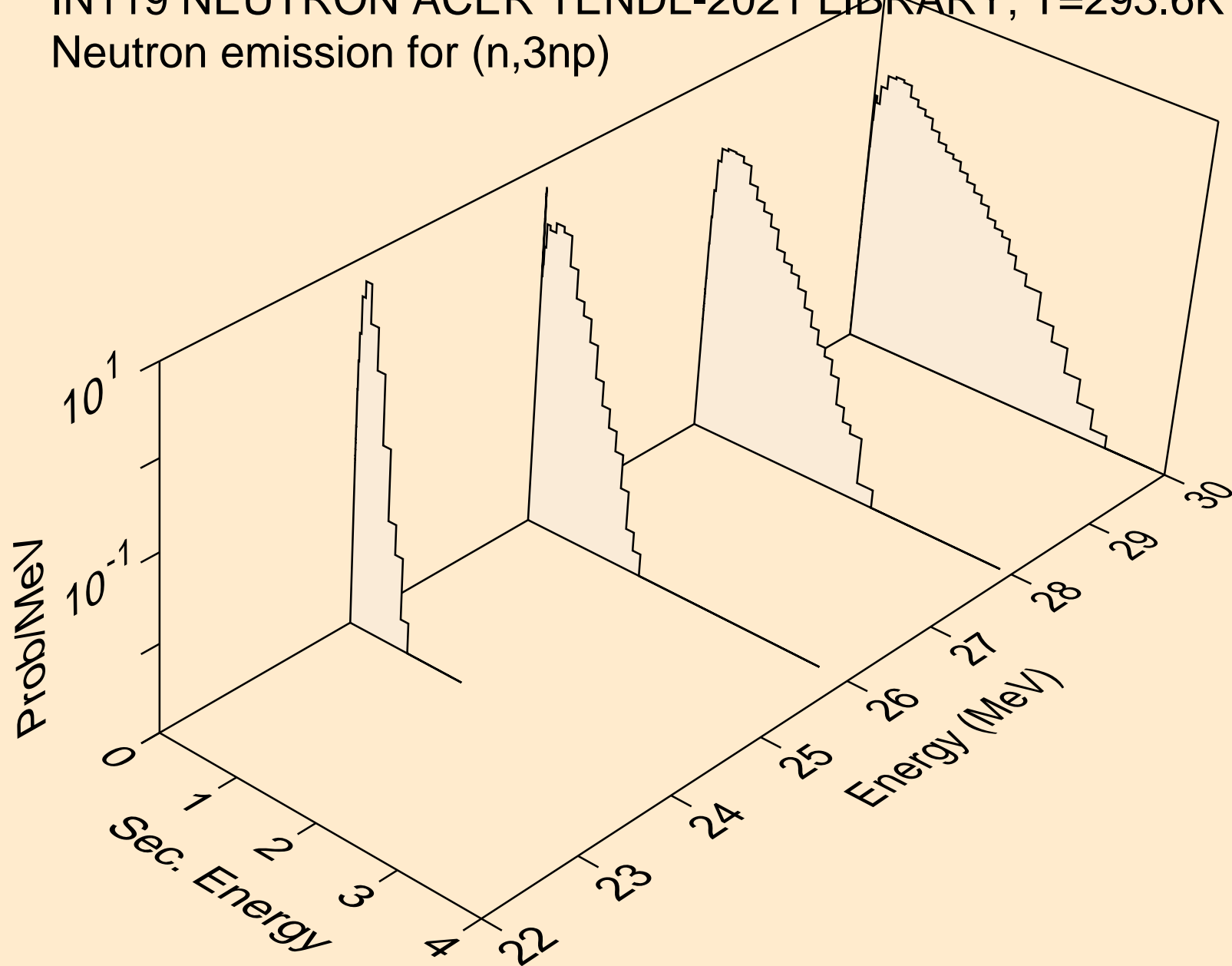
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)

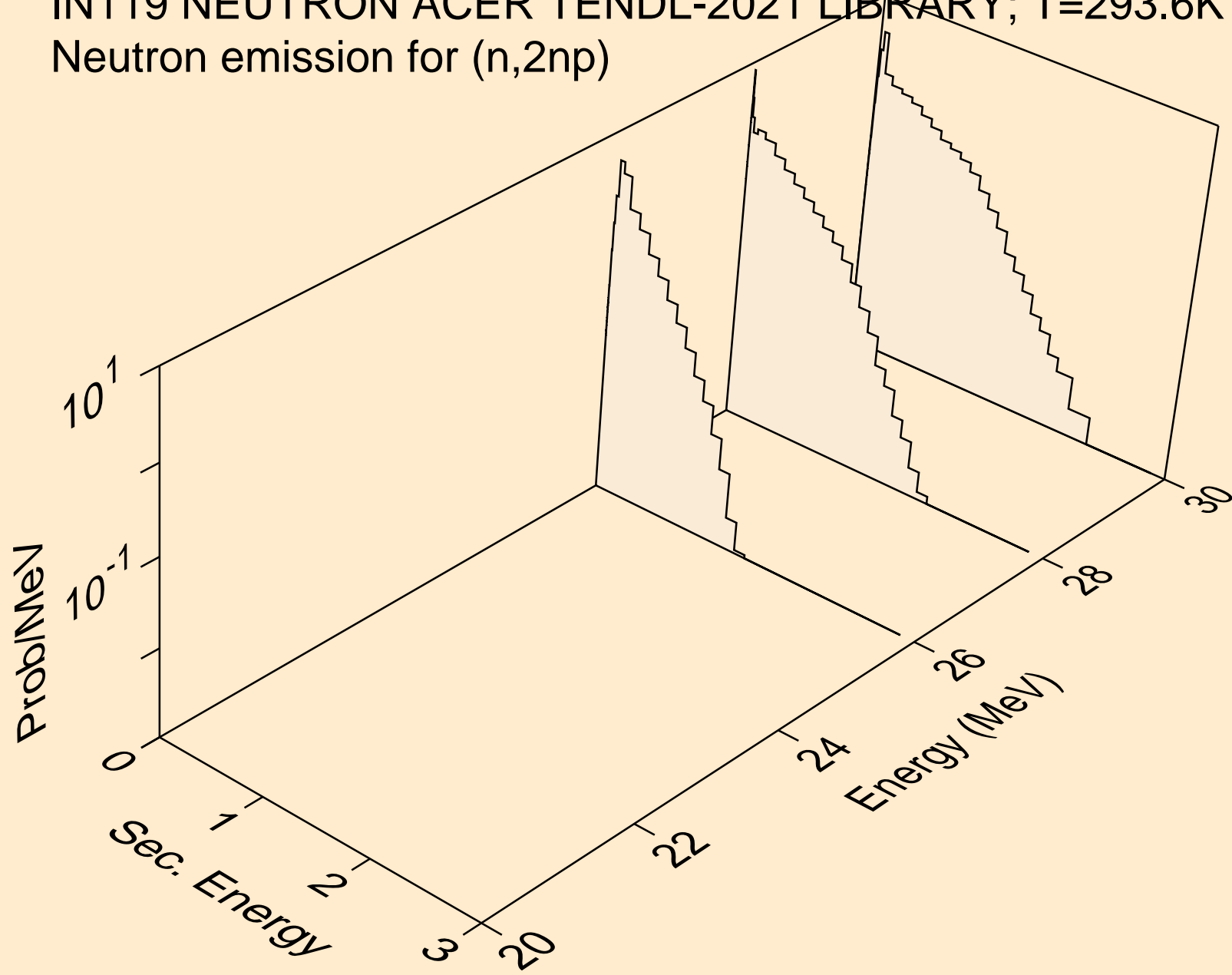


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)

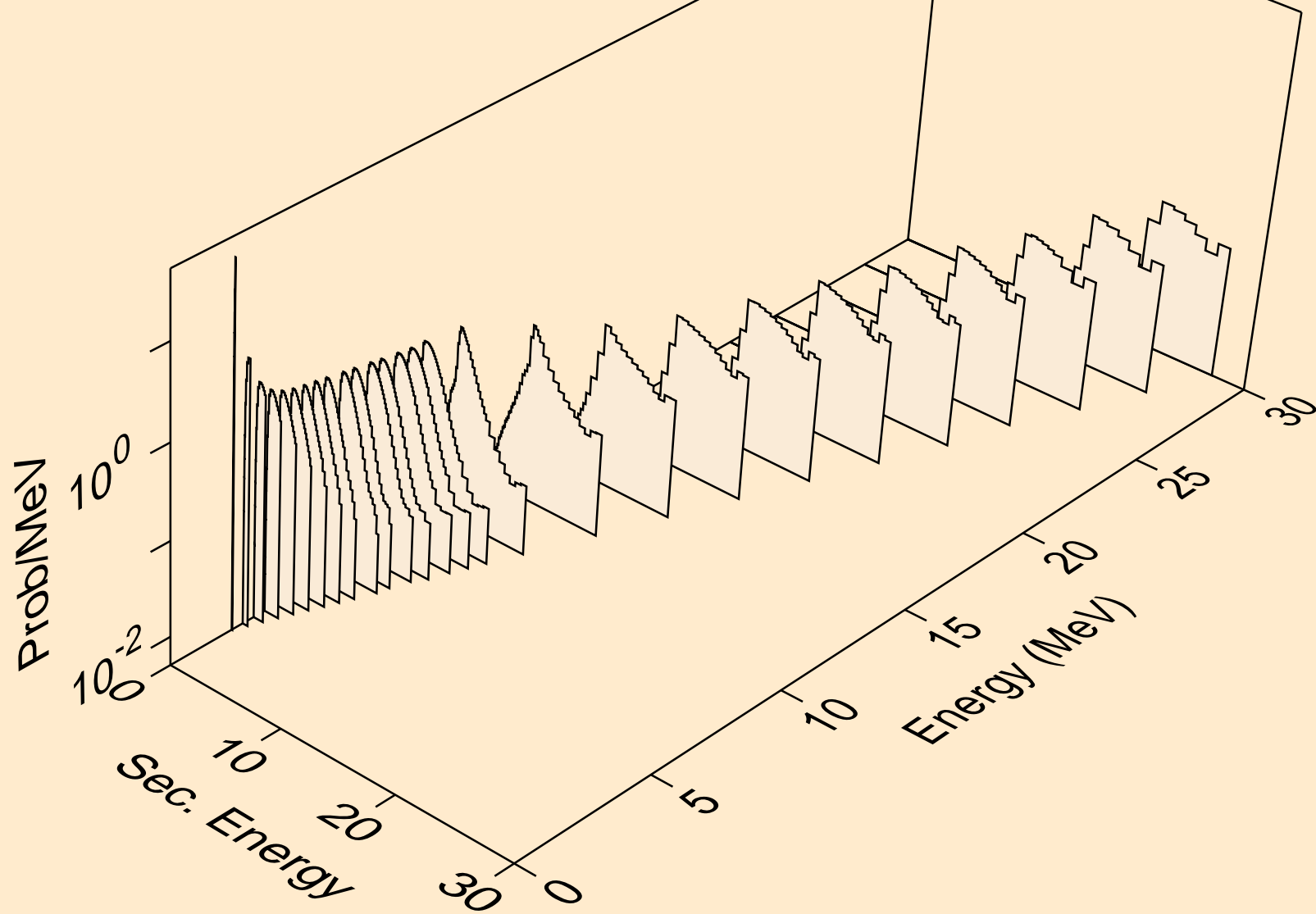




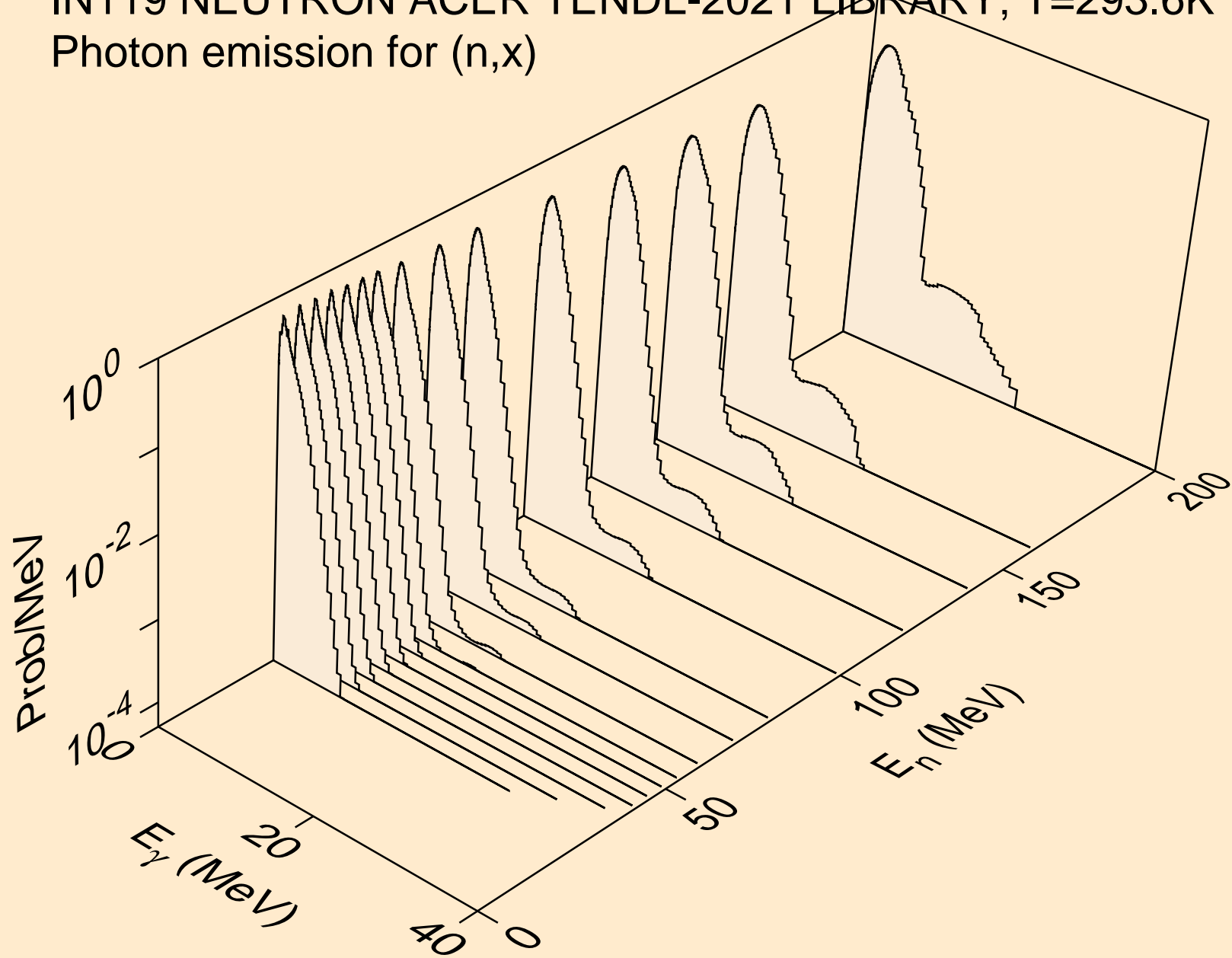
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



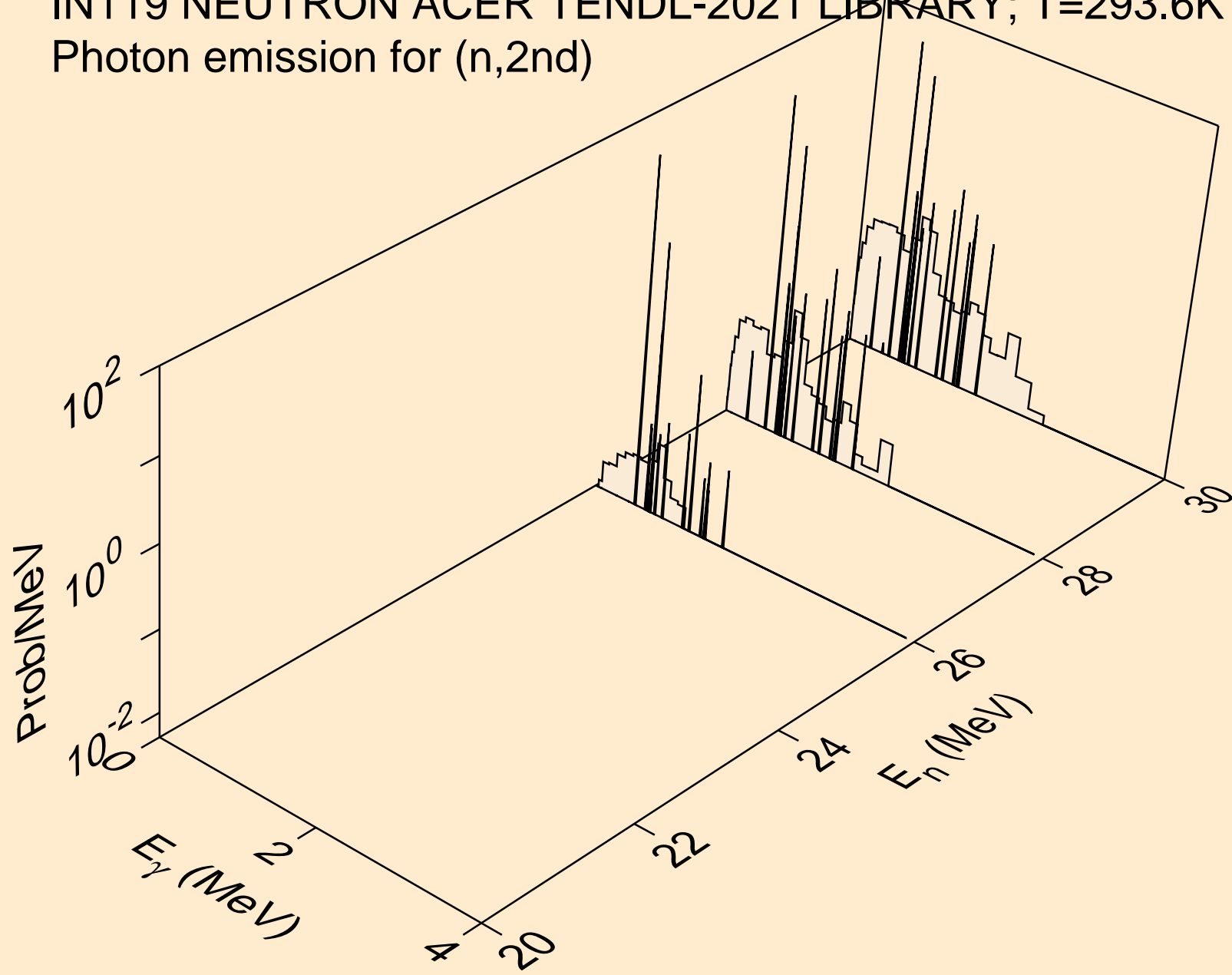
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



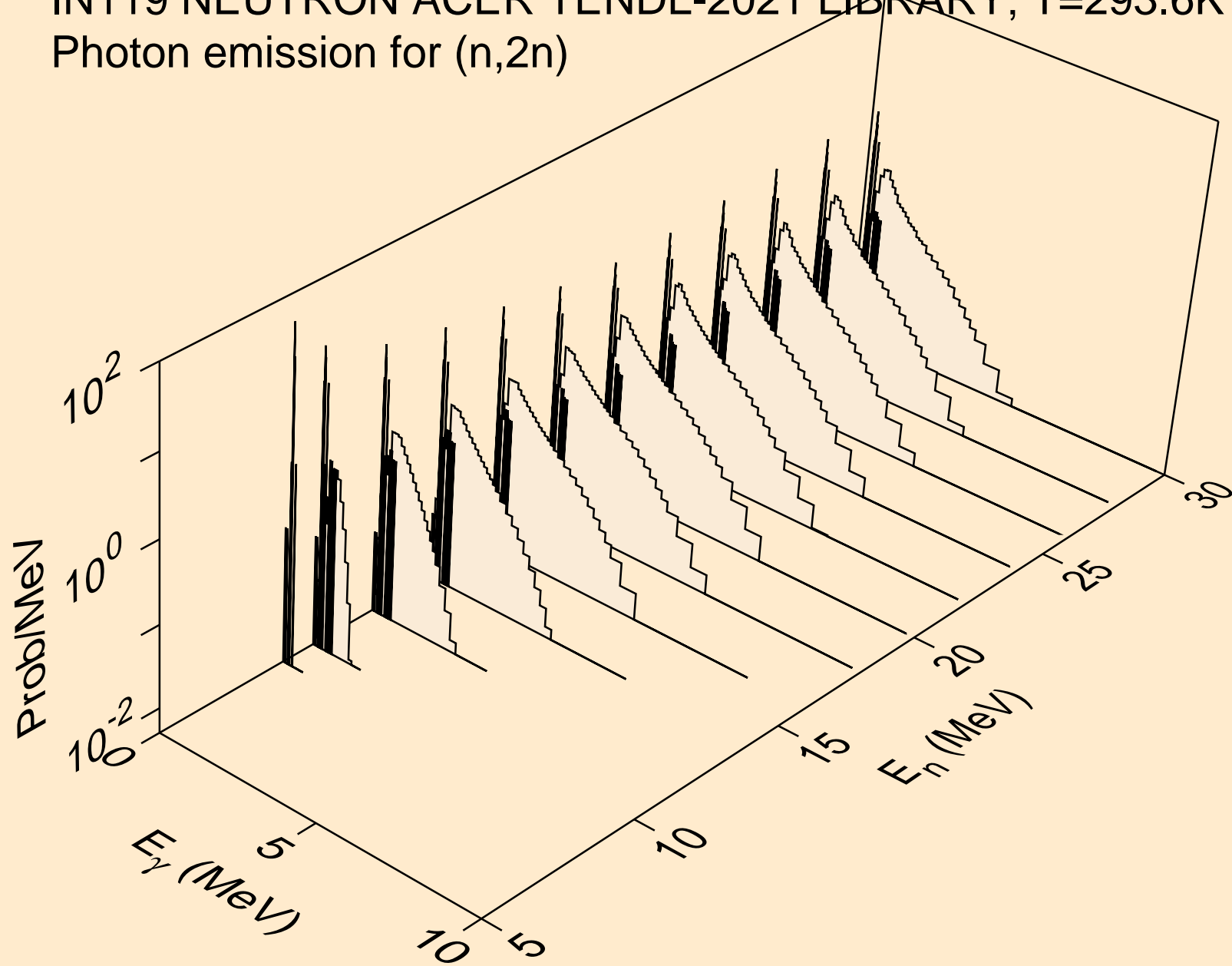
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



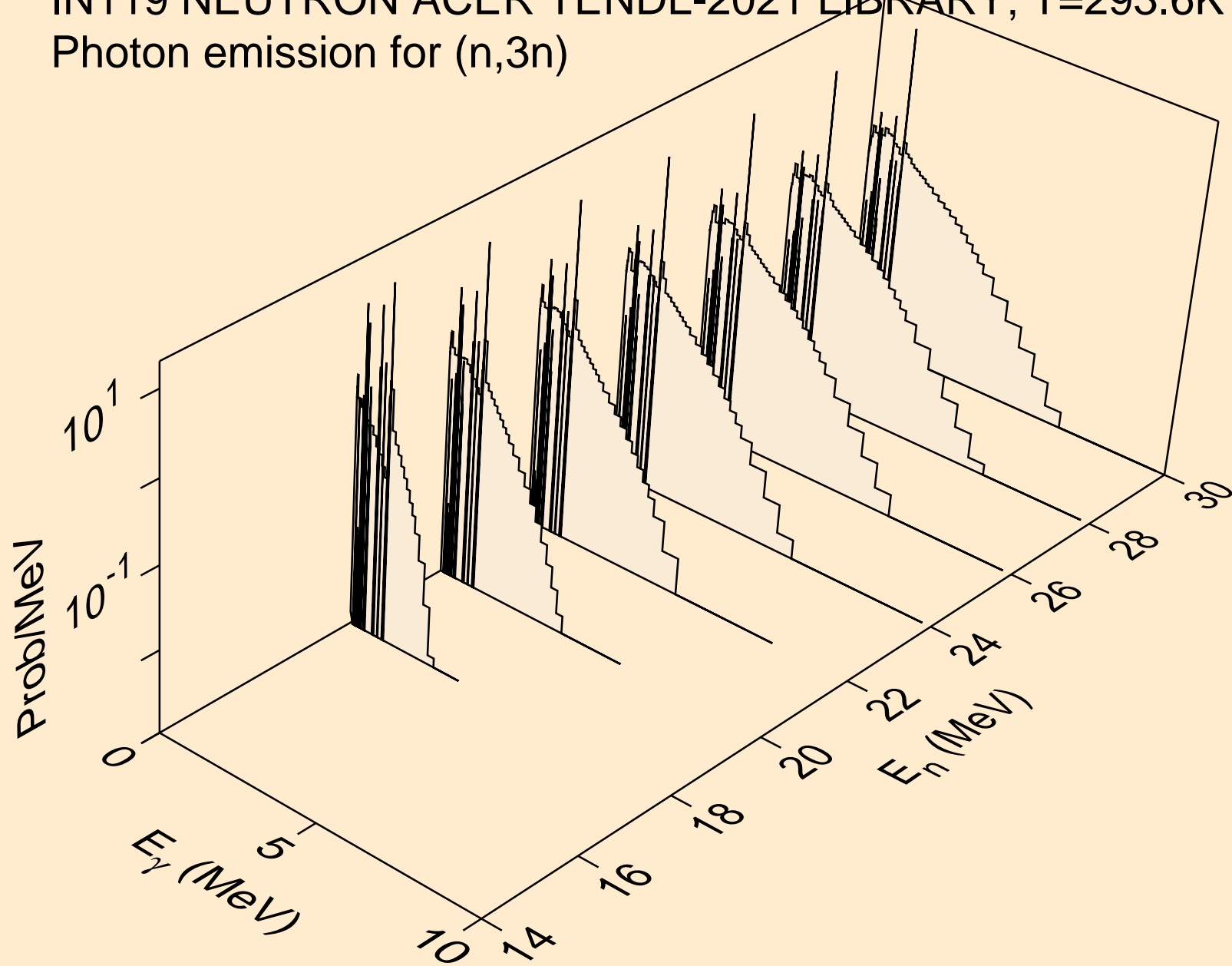
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



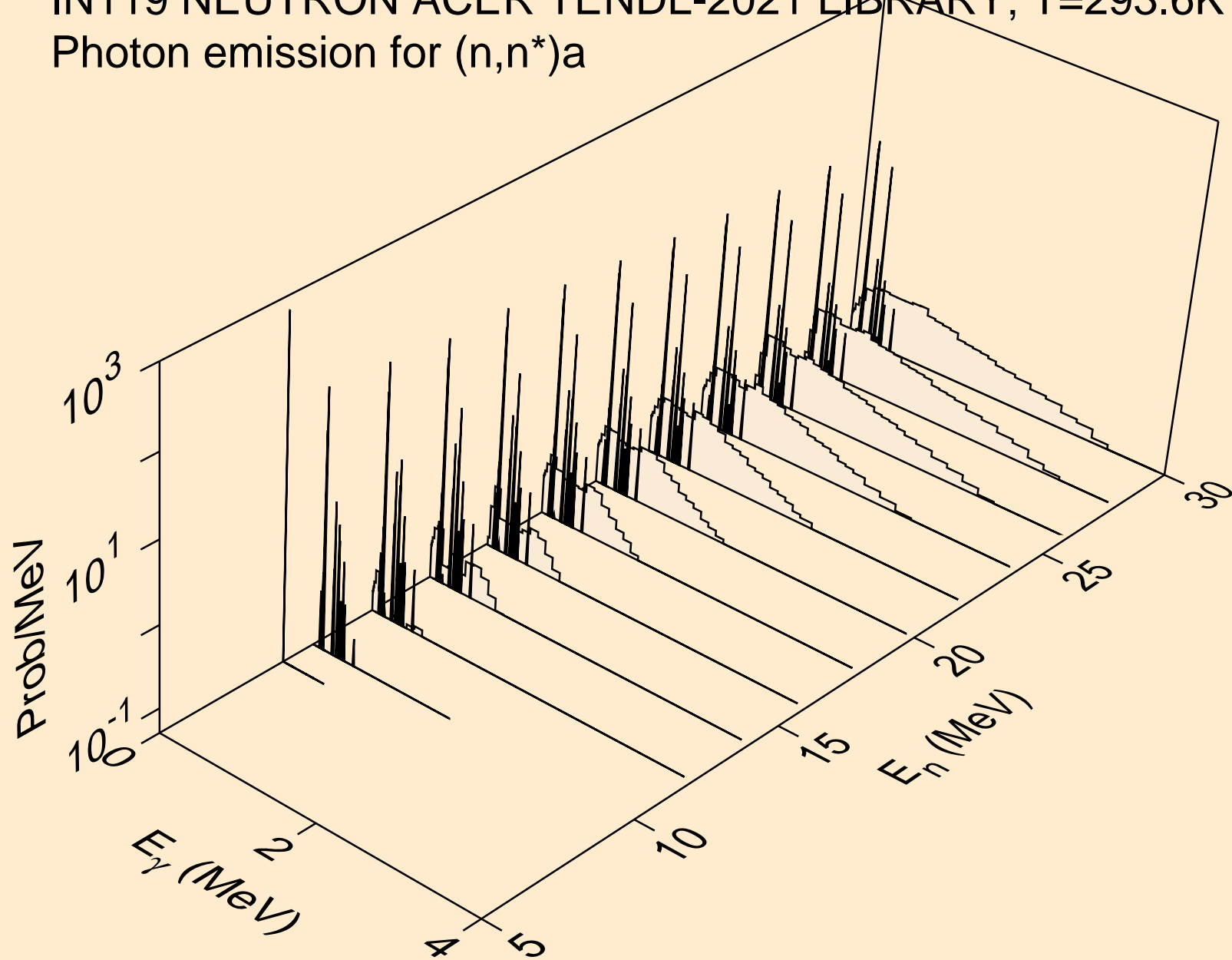
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)



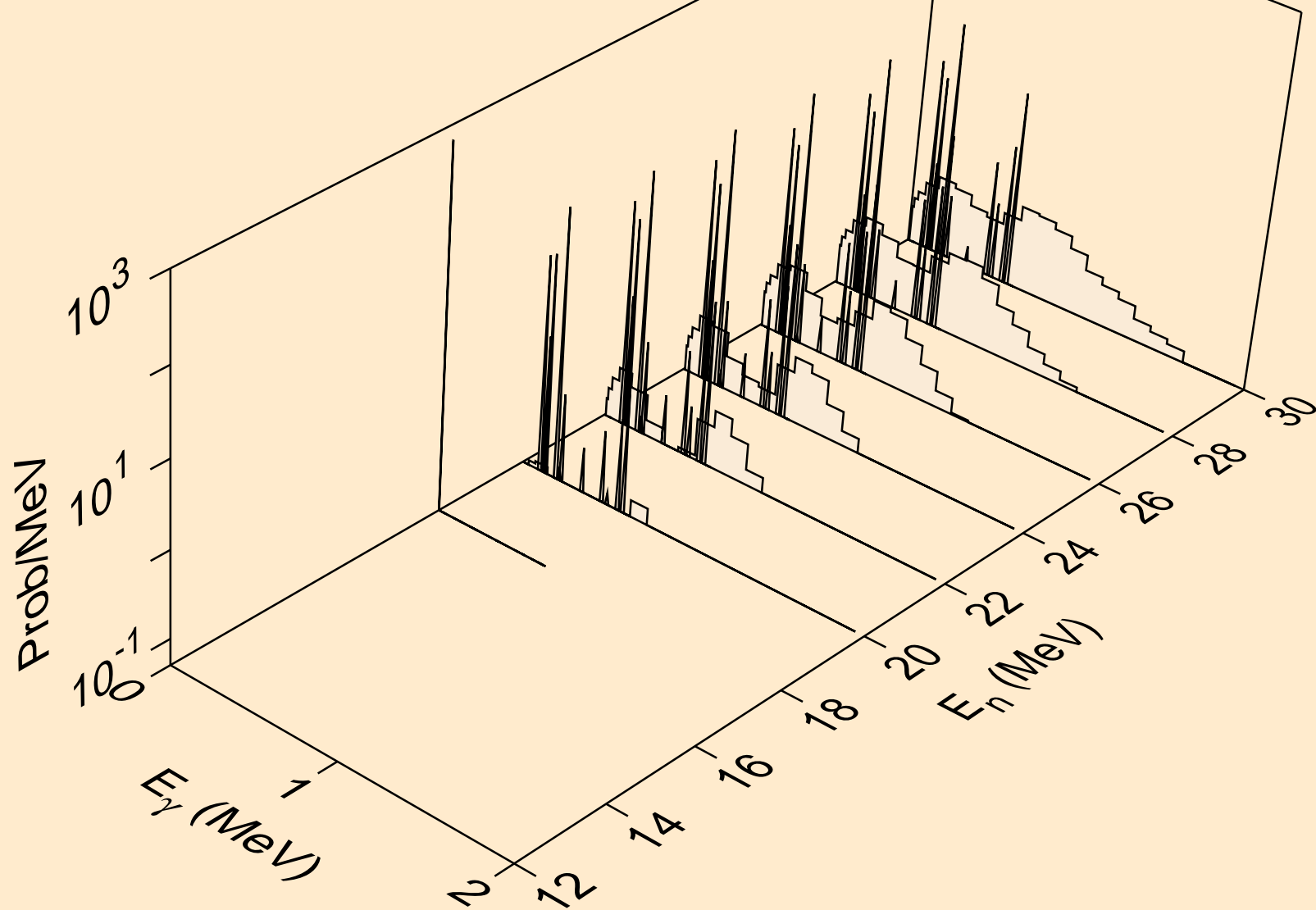
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a

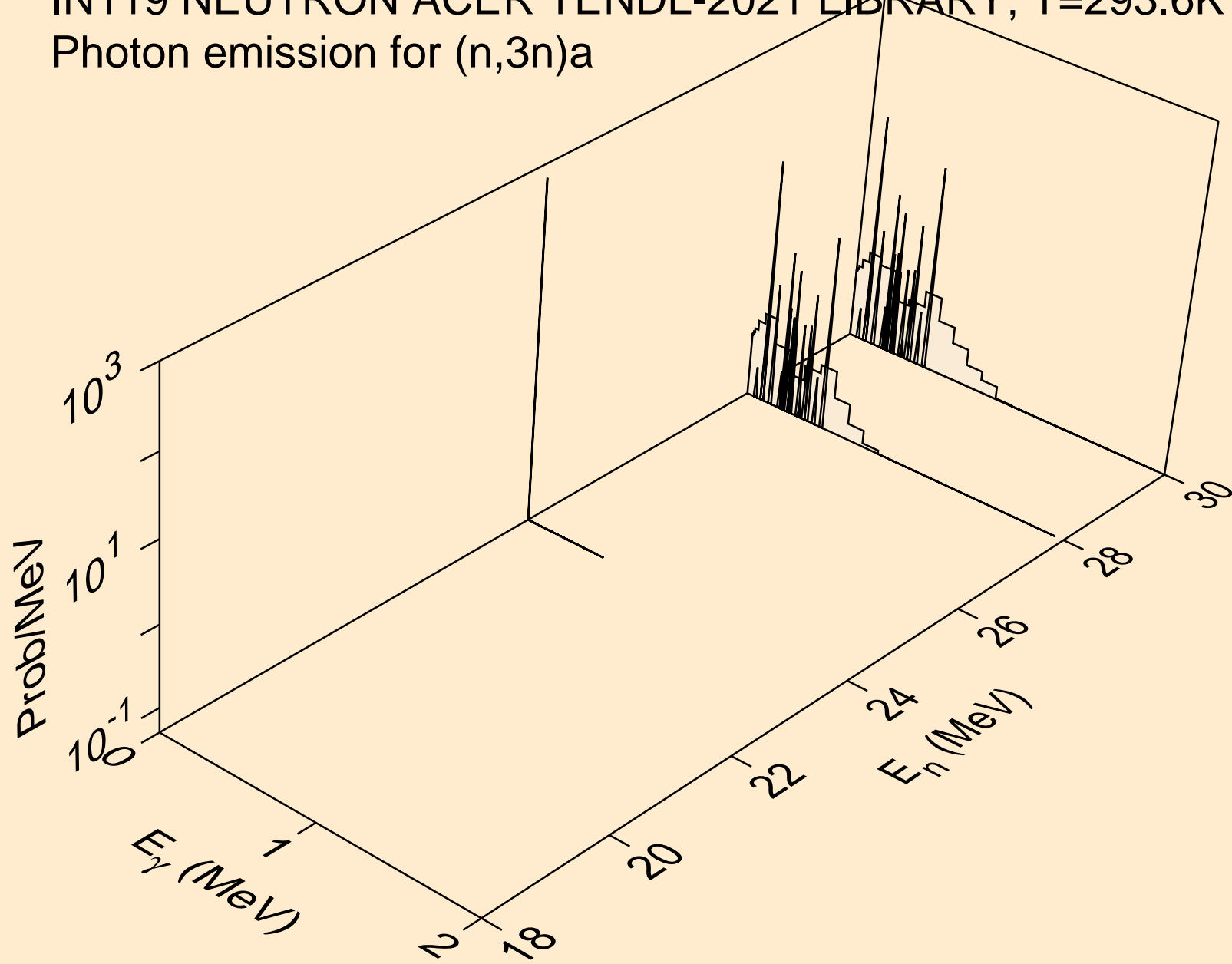


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a

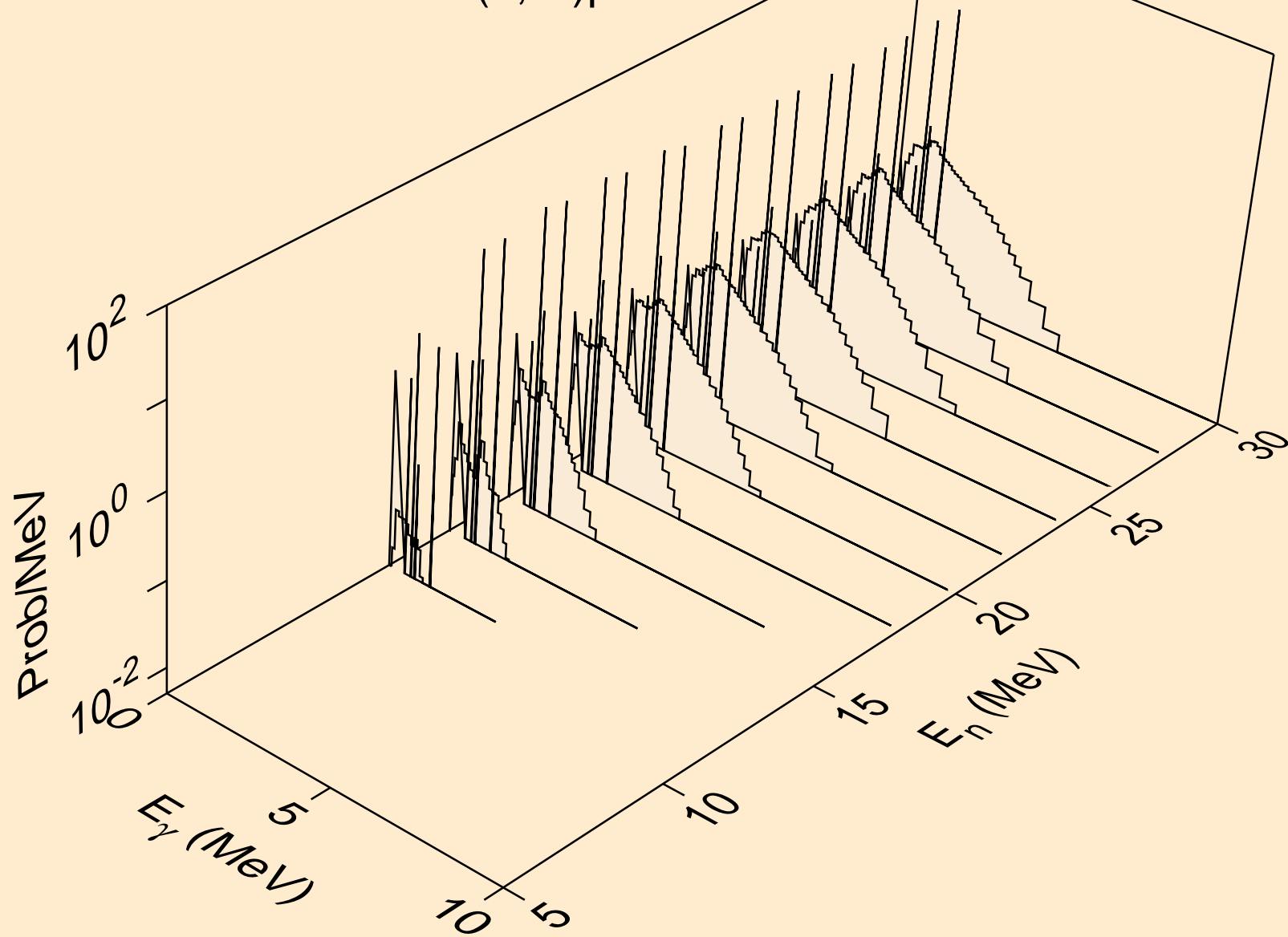




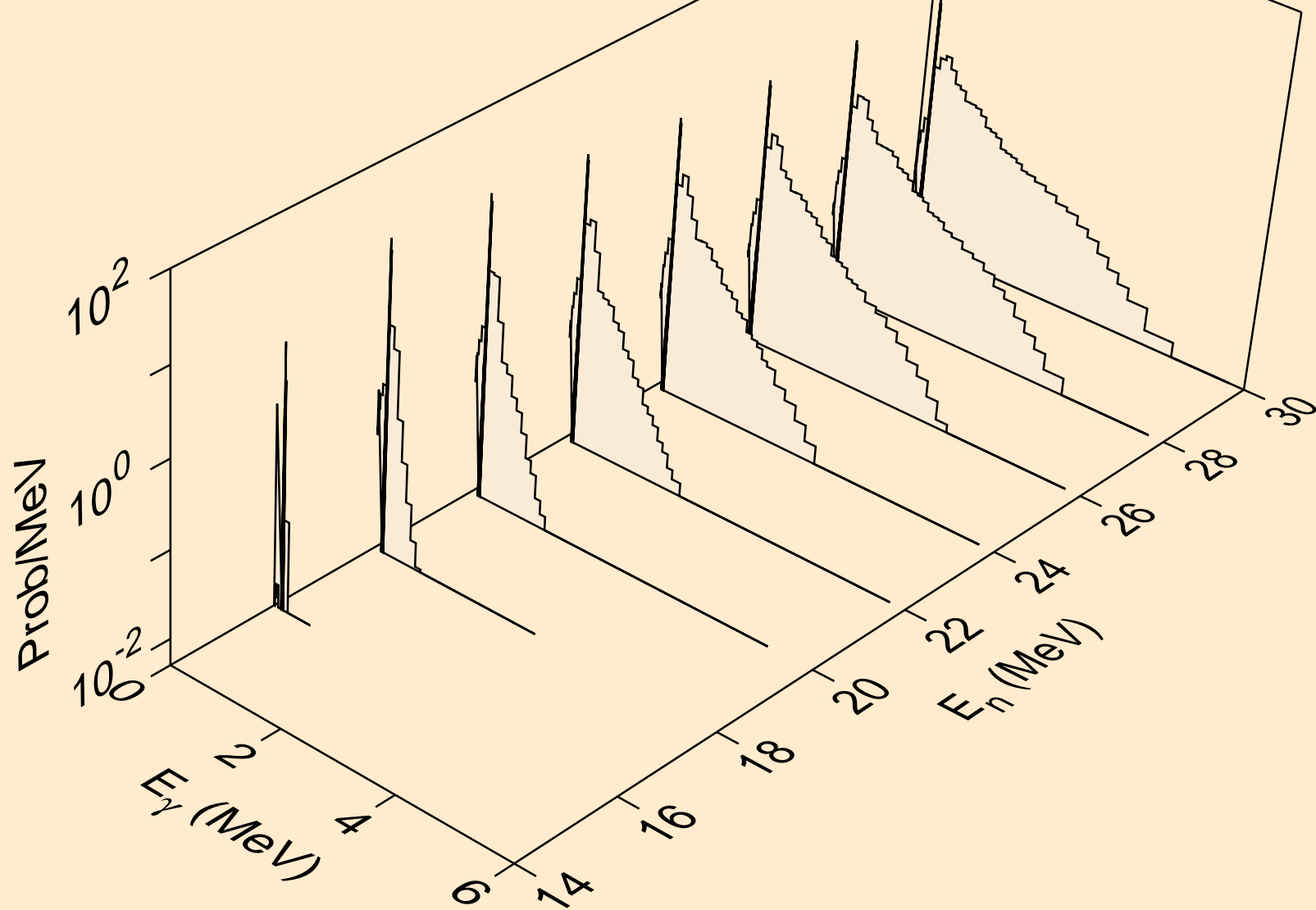
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



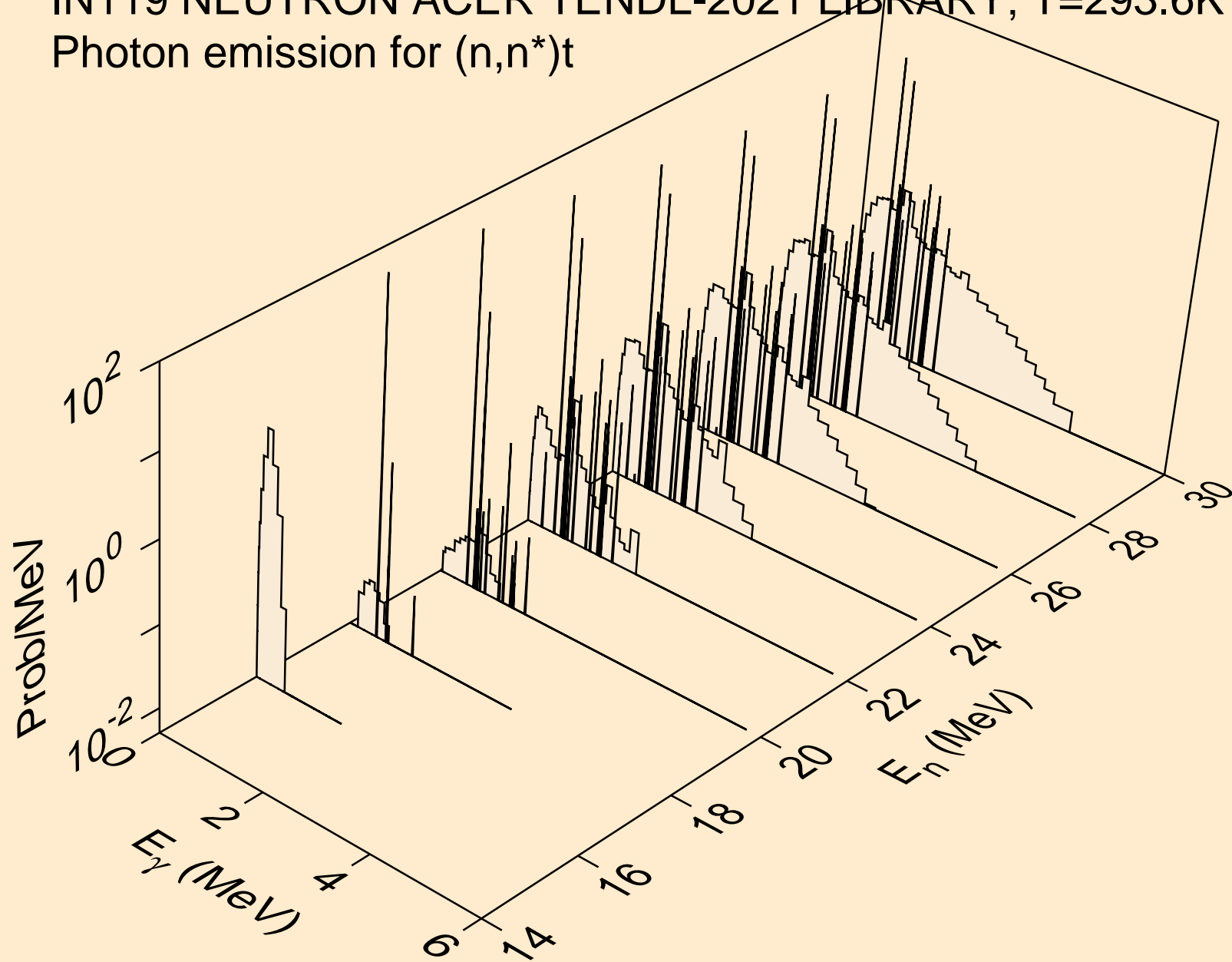
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



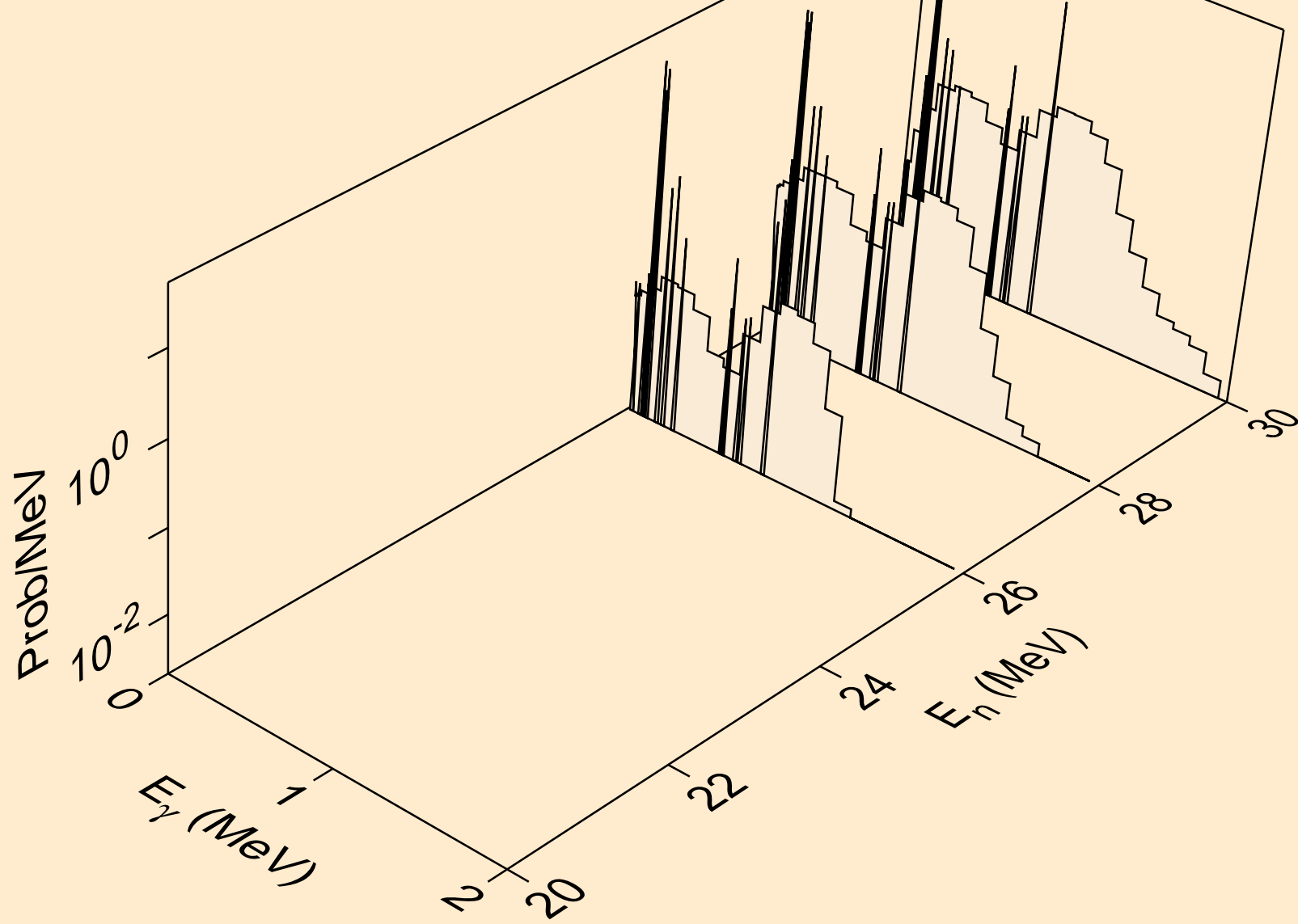
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



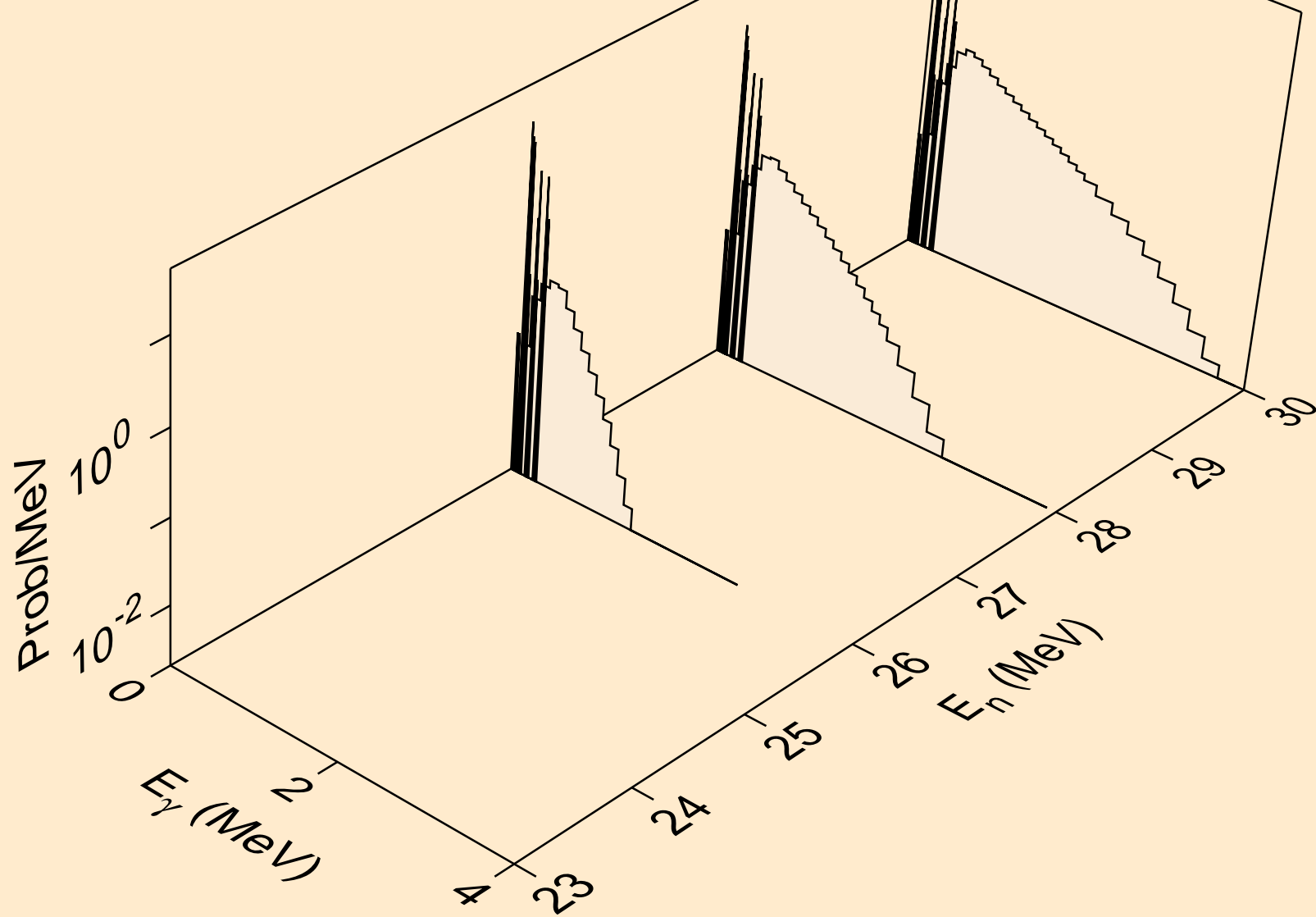
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



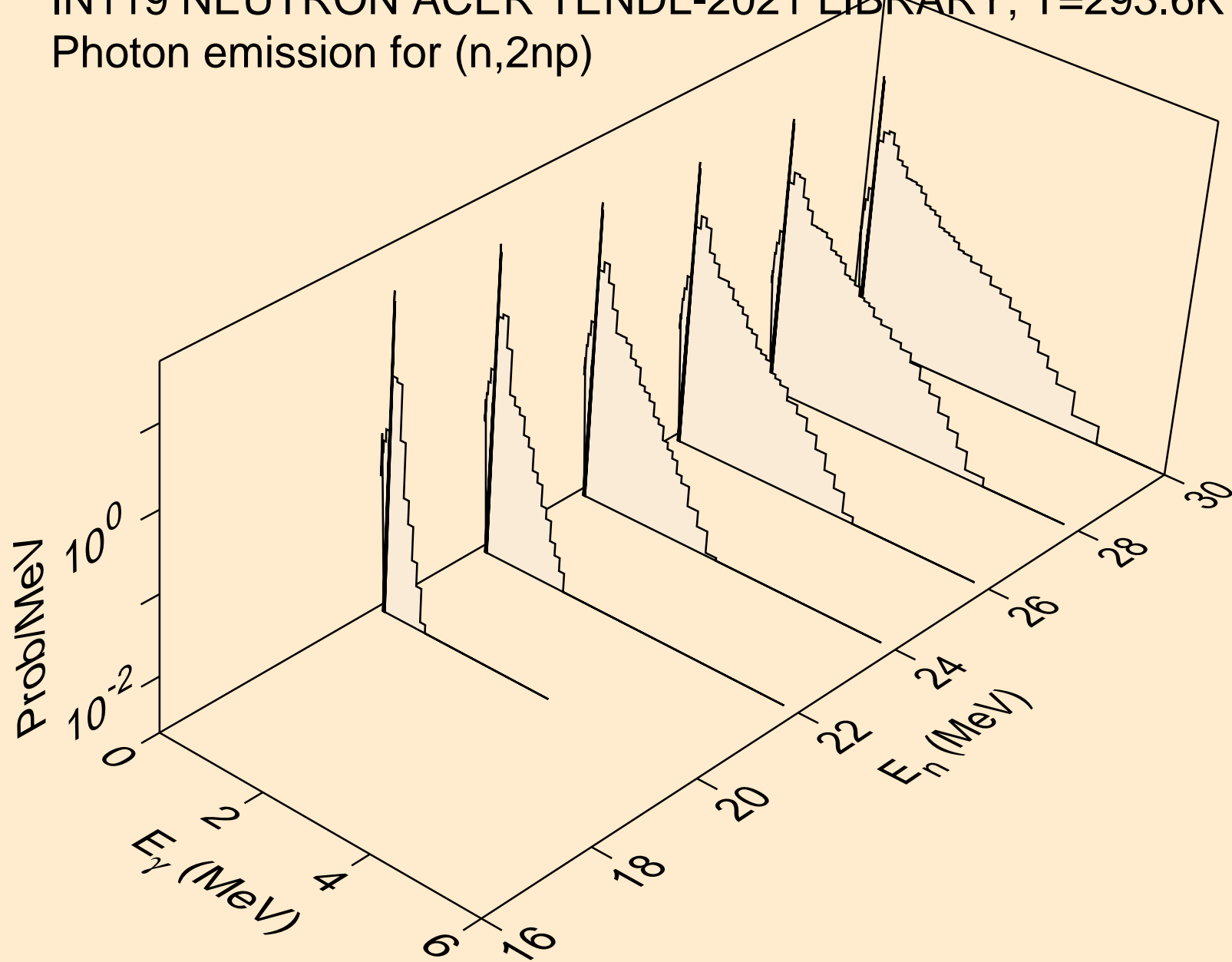
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



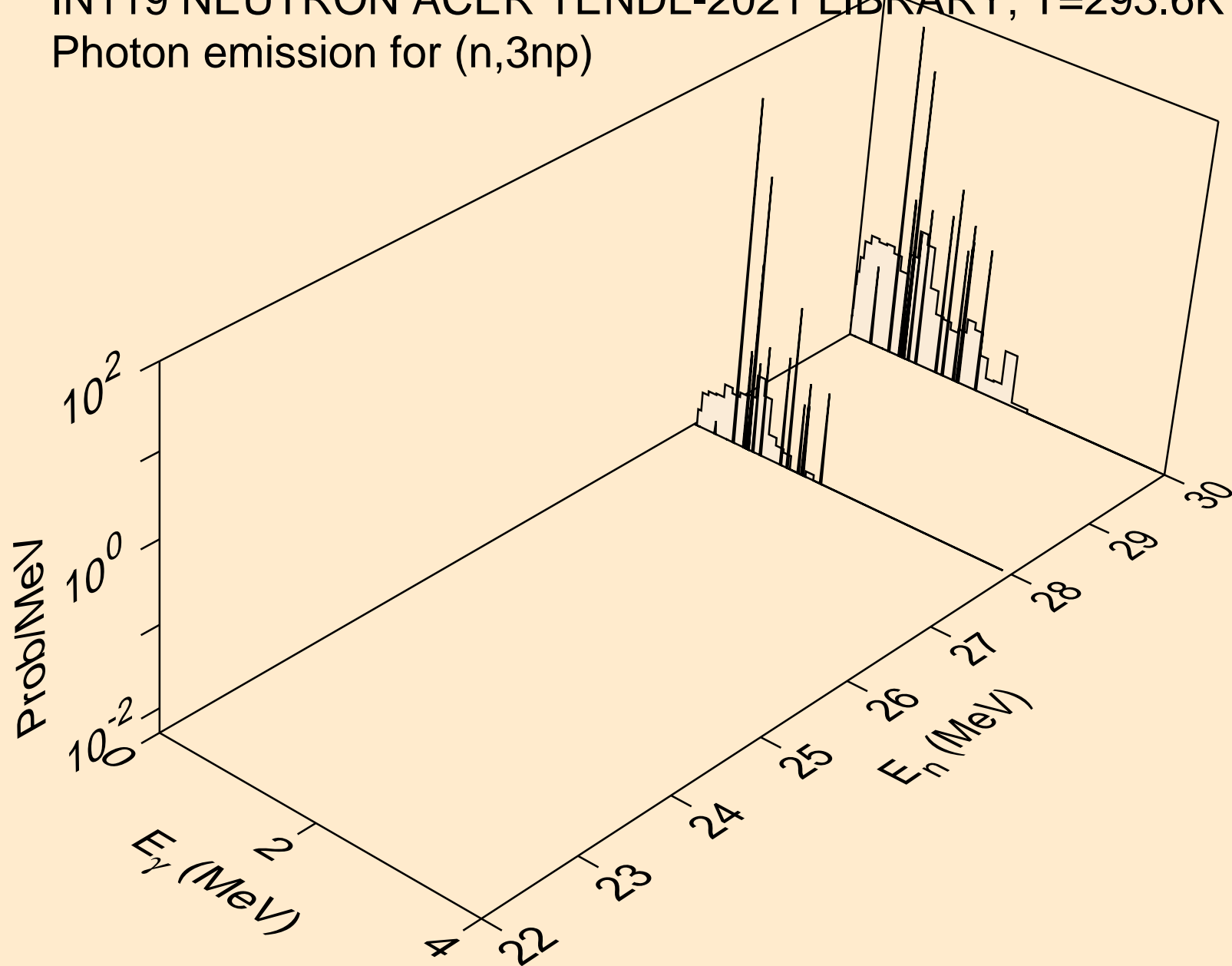
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)

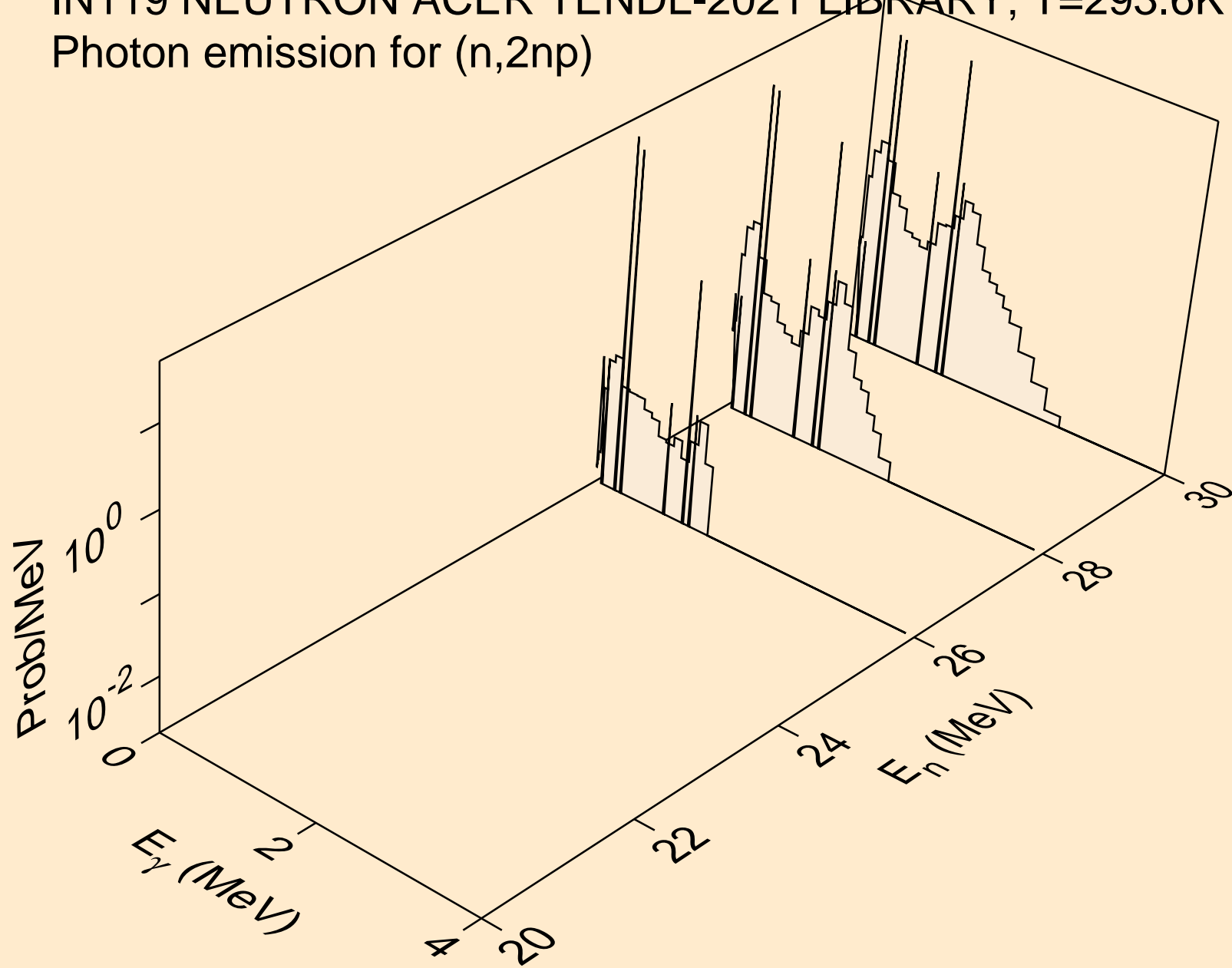


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)

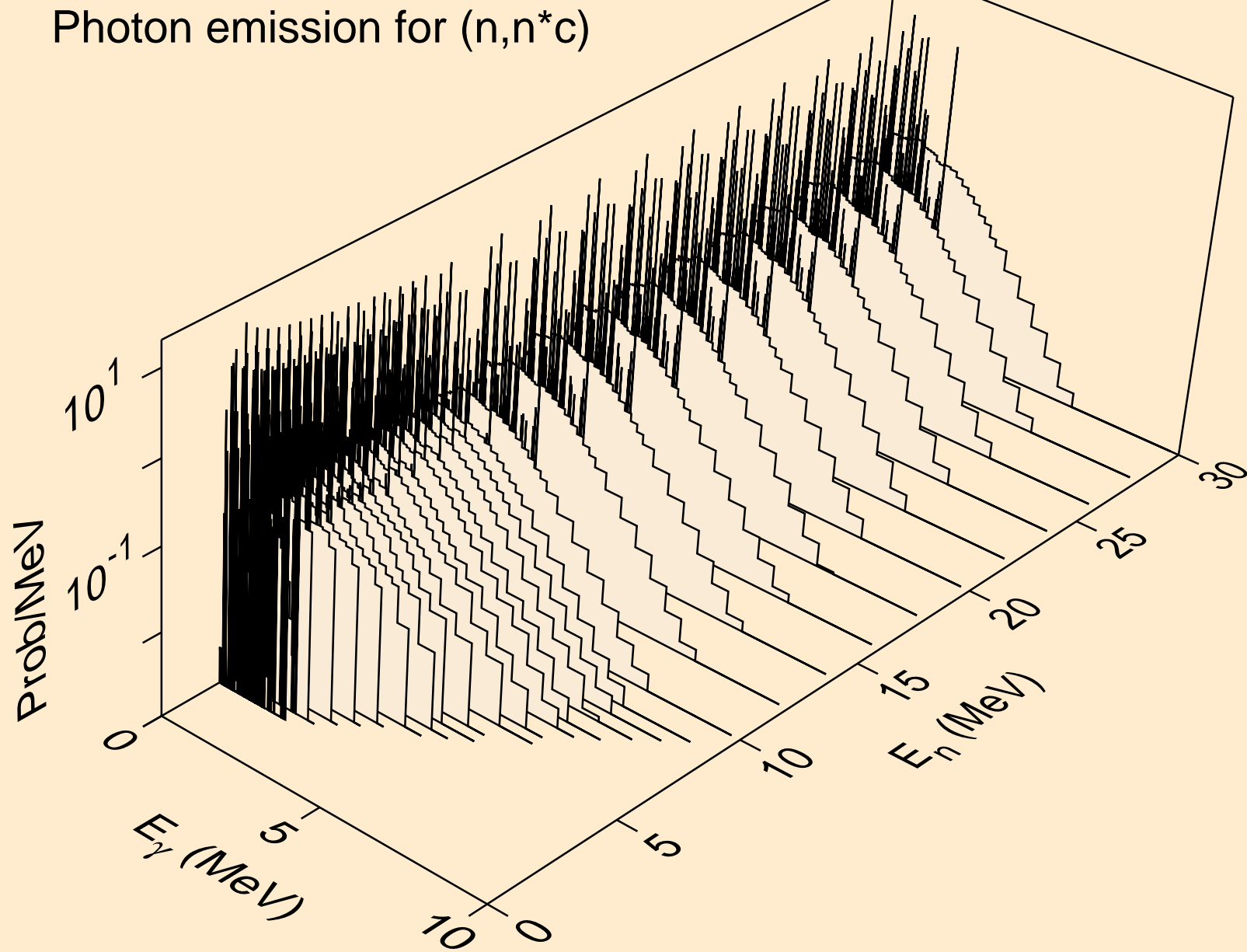




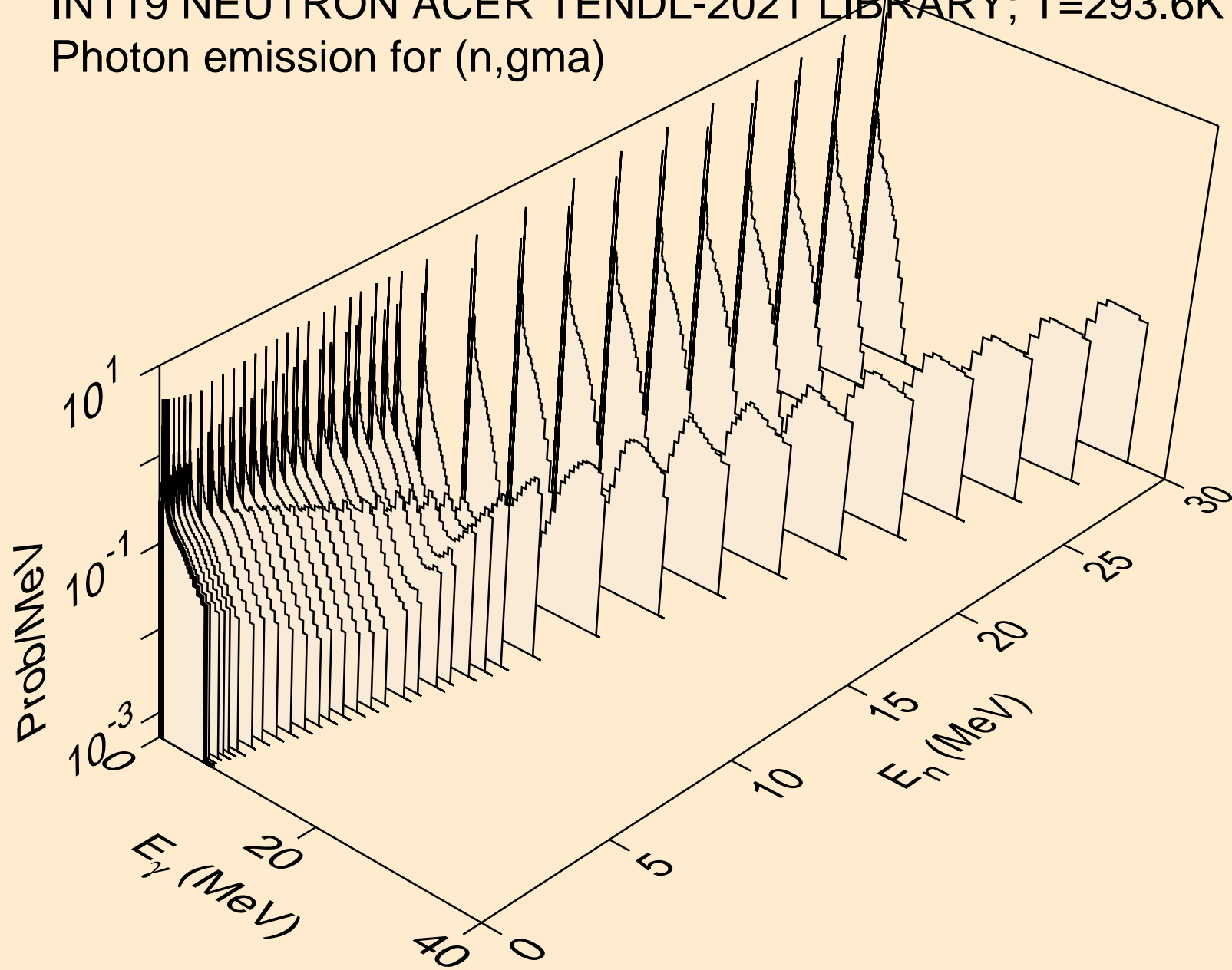
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Photon emission for (n,2np)



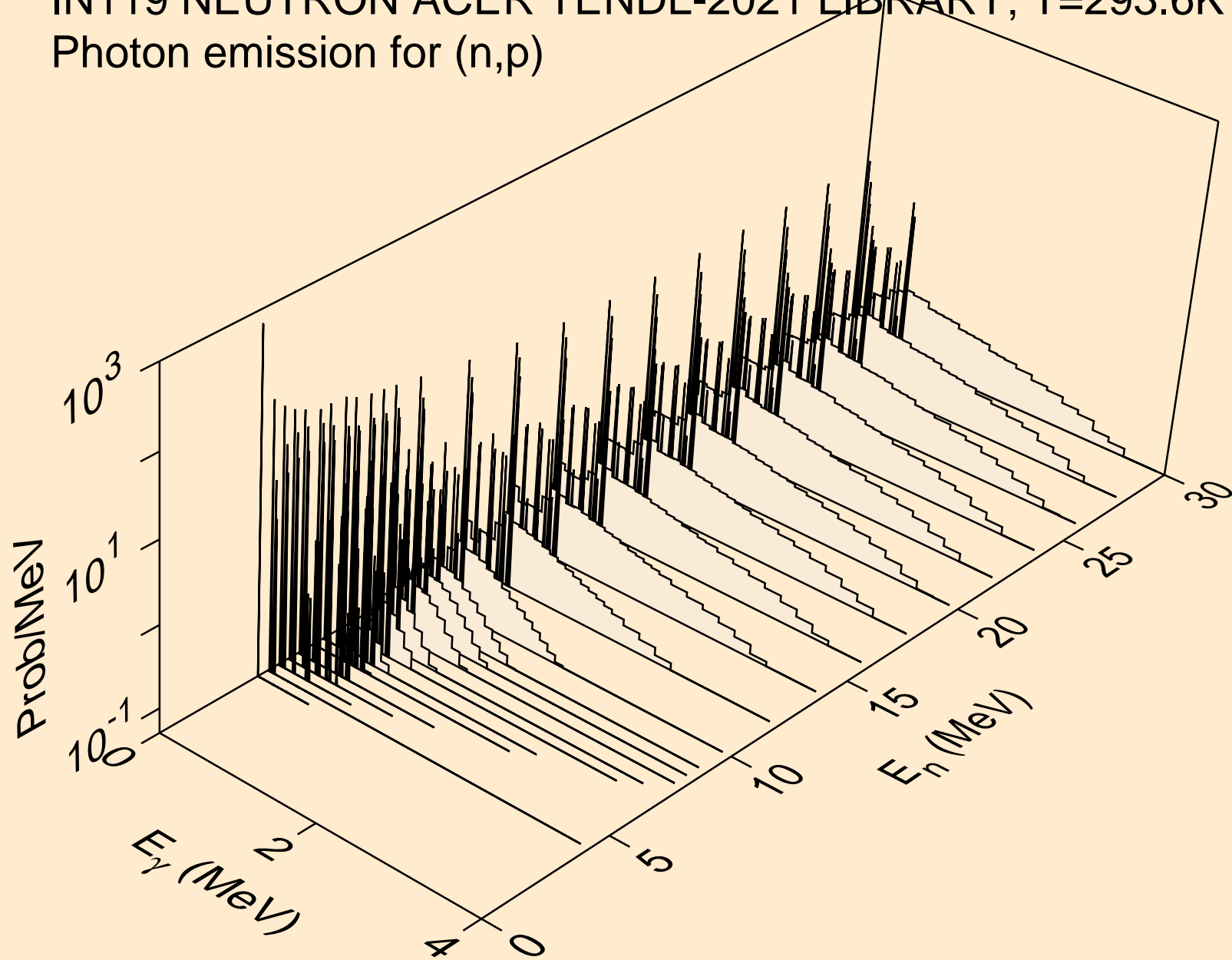
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Photon emission for (n,n\*c)



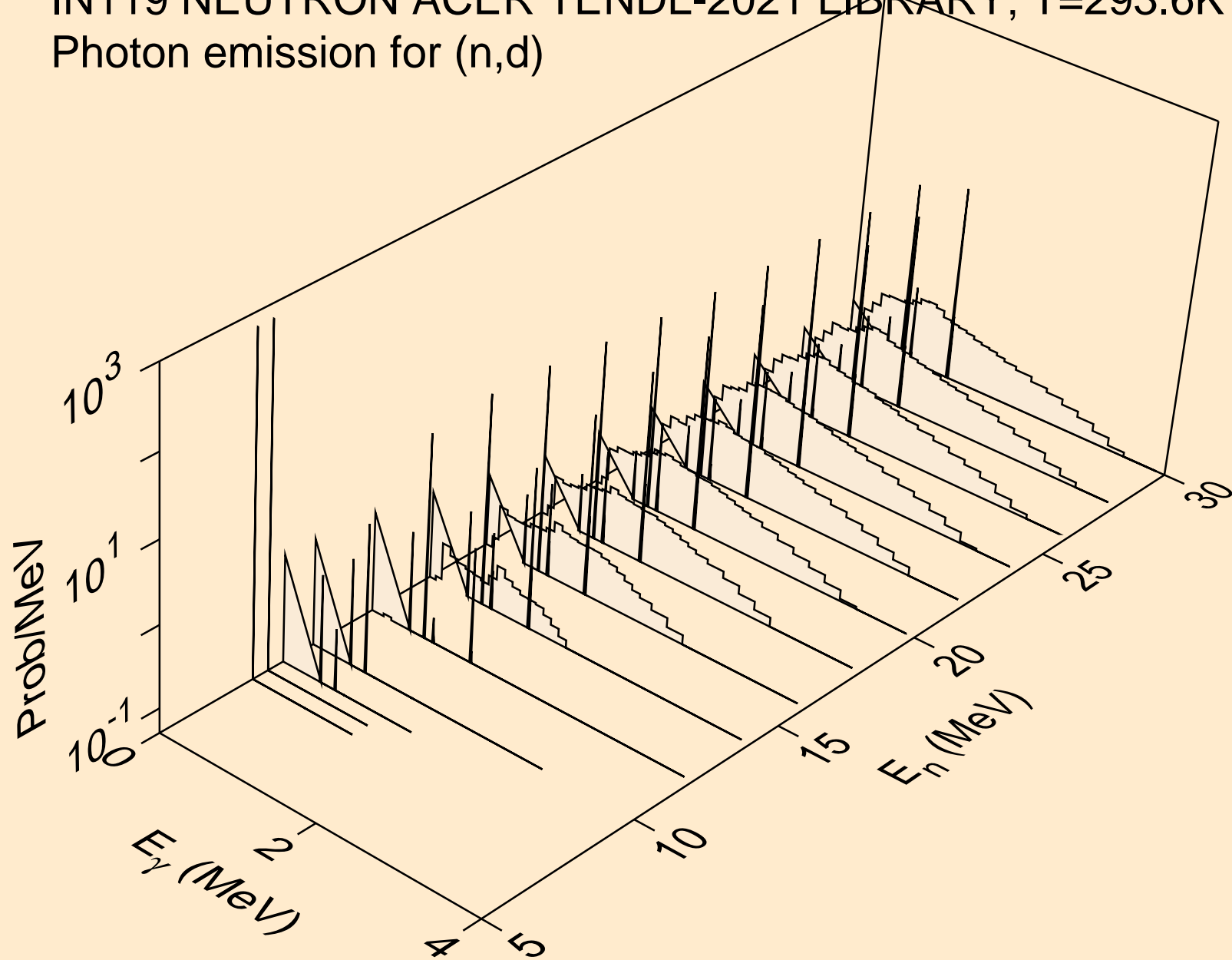
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Photon emission for (n,gma)



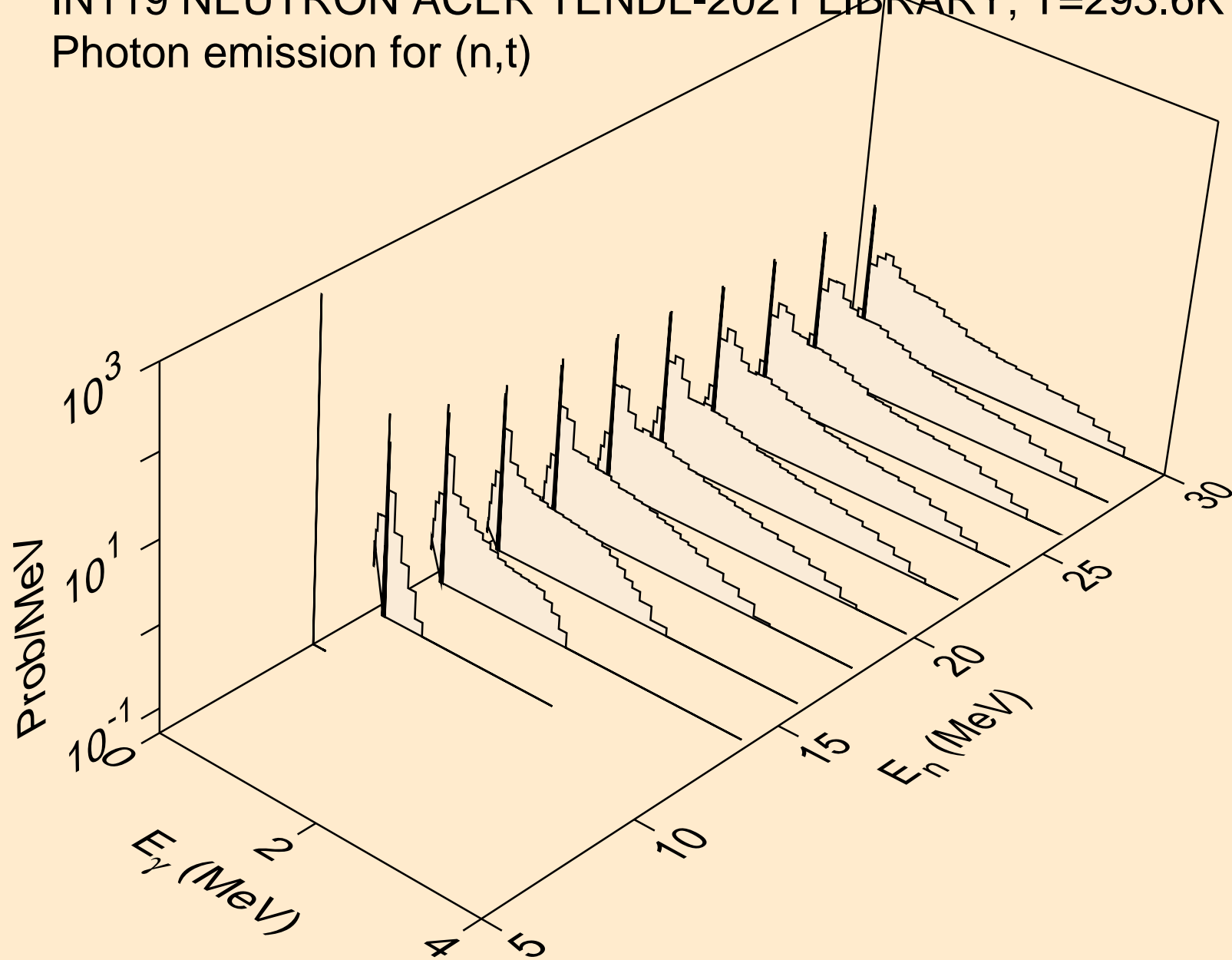
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



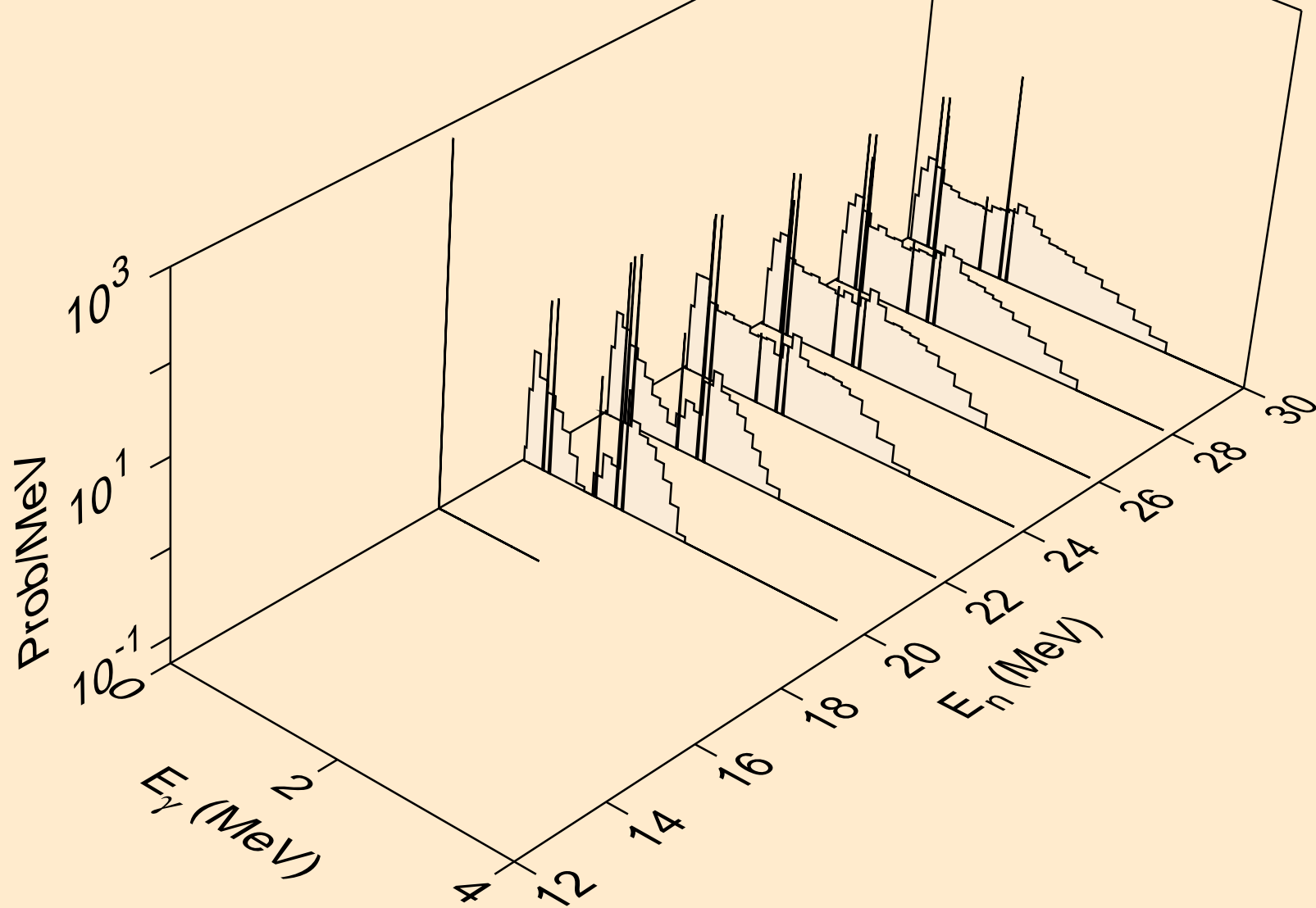
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



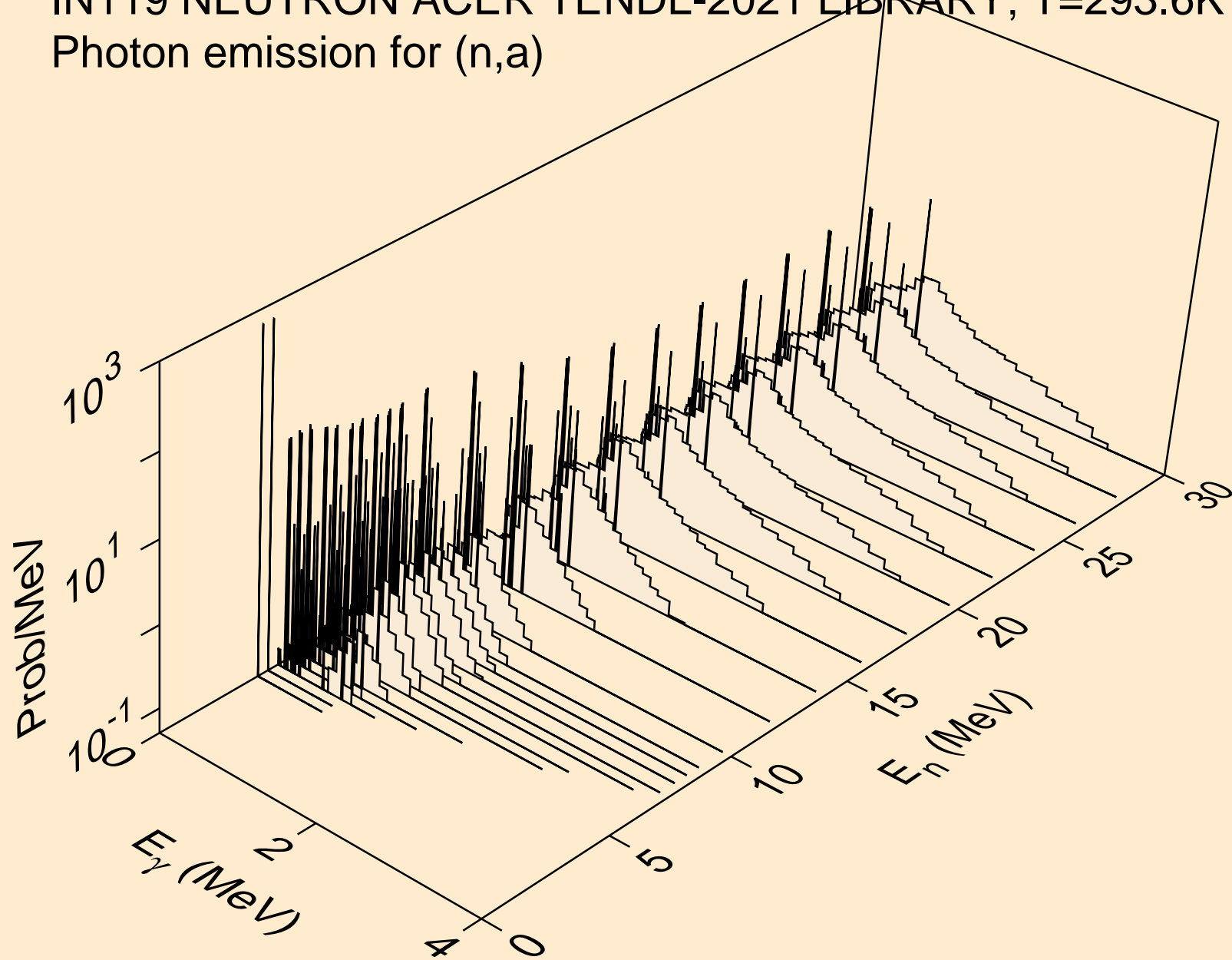
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)

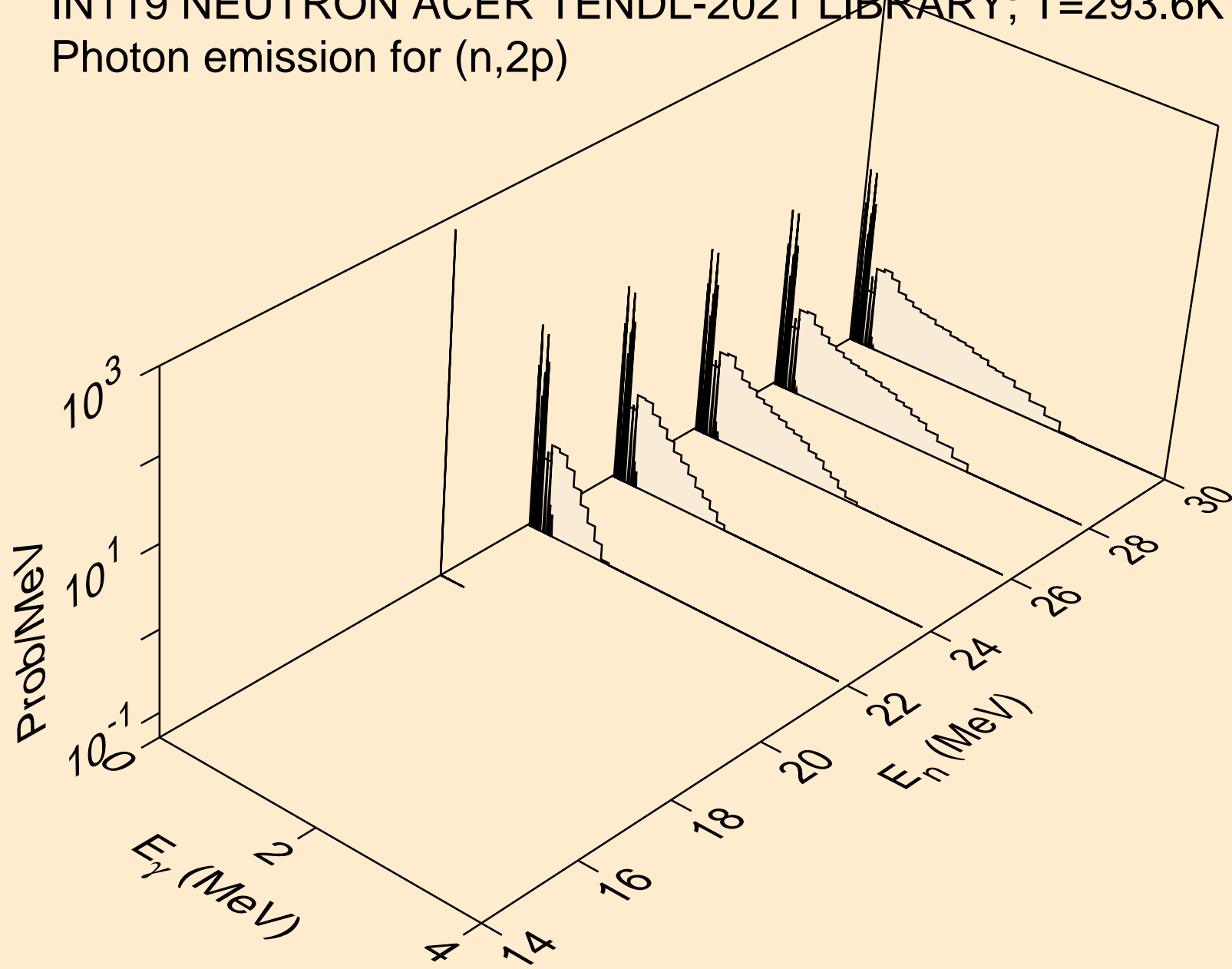


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)

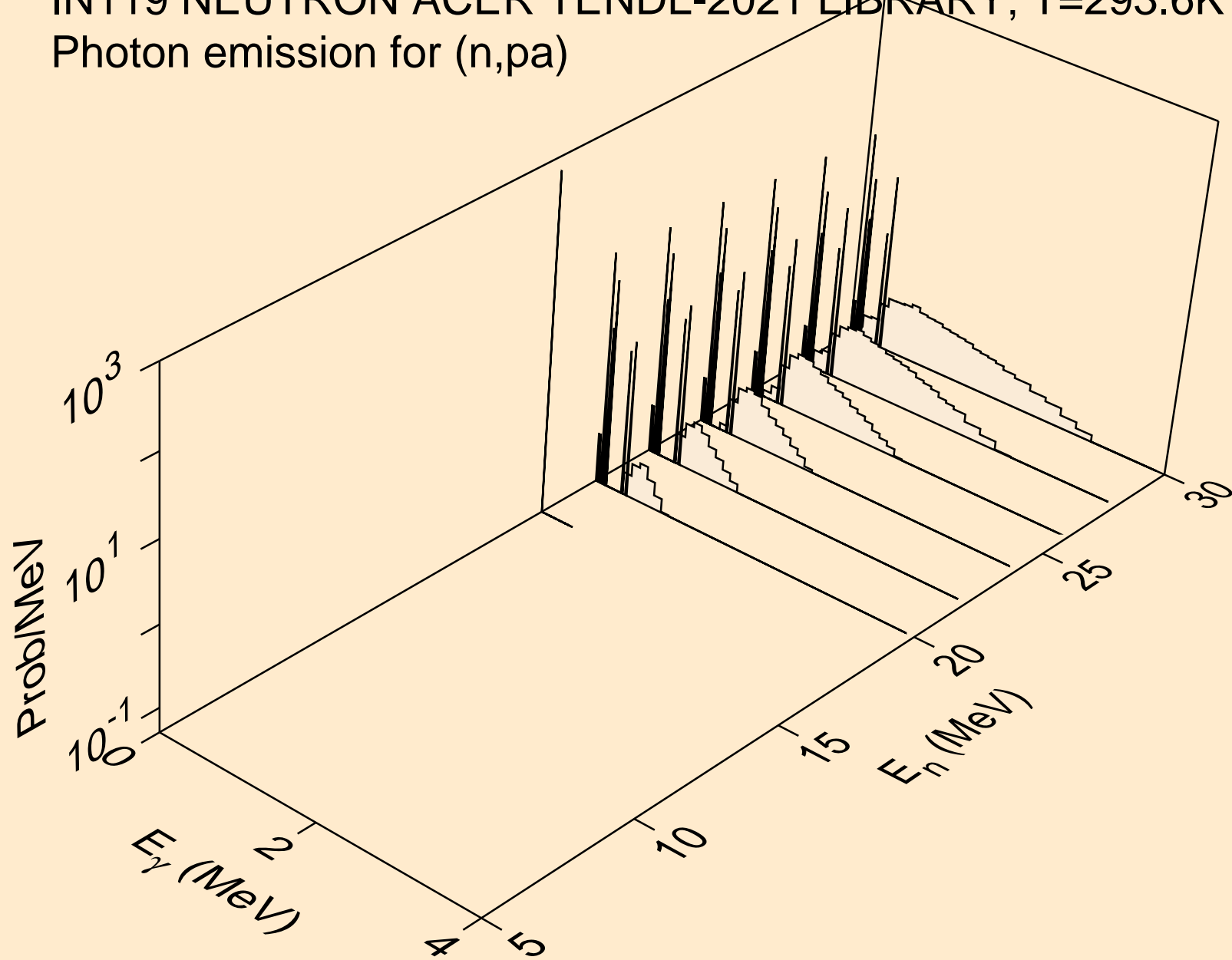




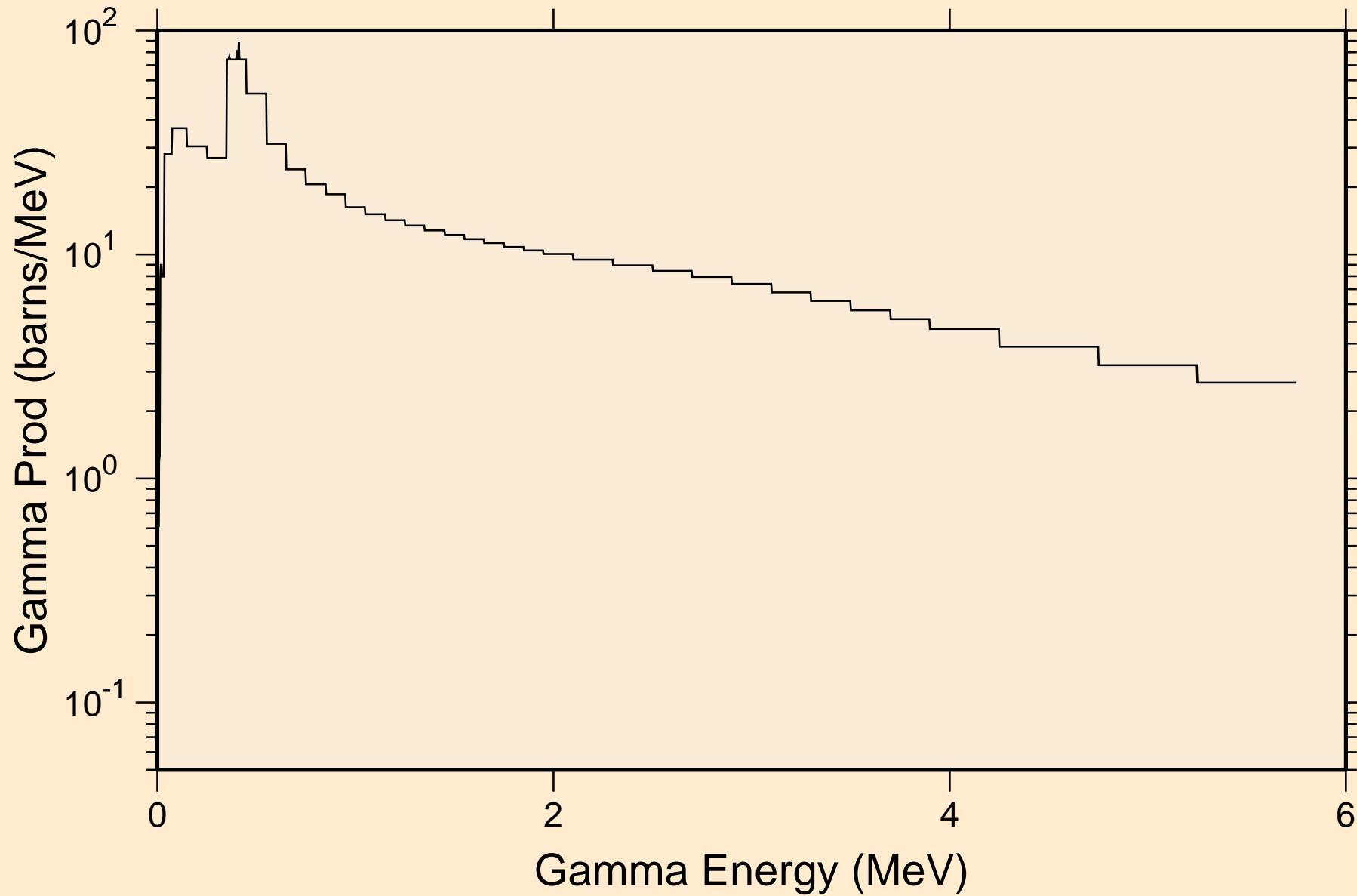
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Photon emission for (n,2p)



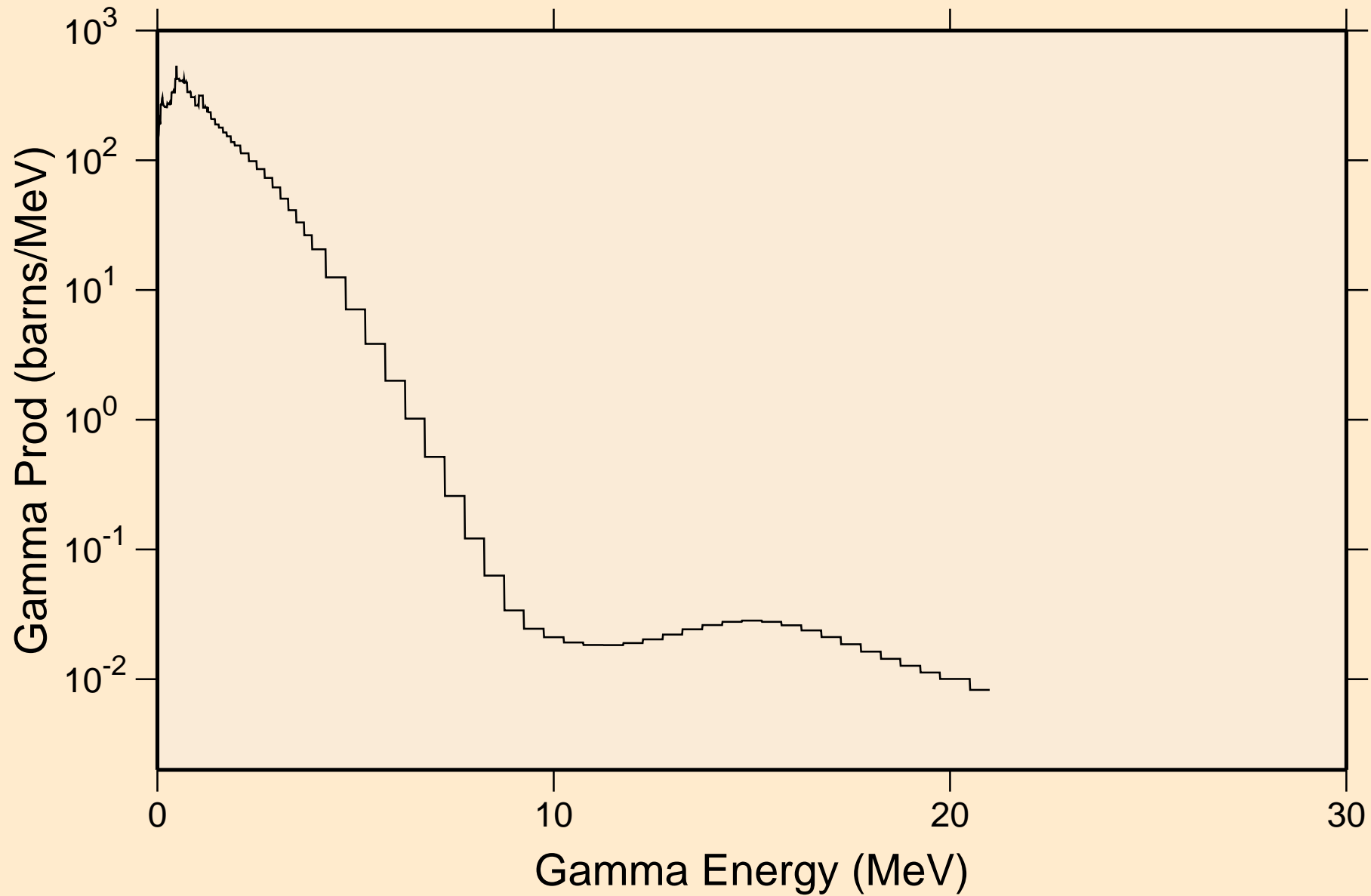
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Photon emission for (n,p $\alpha$ )



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

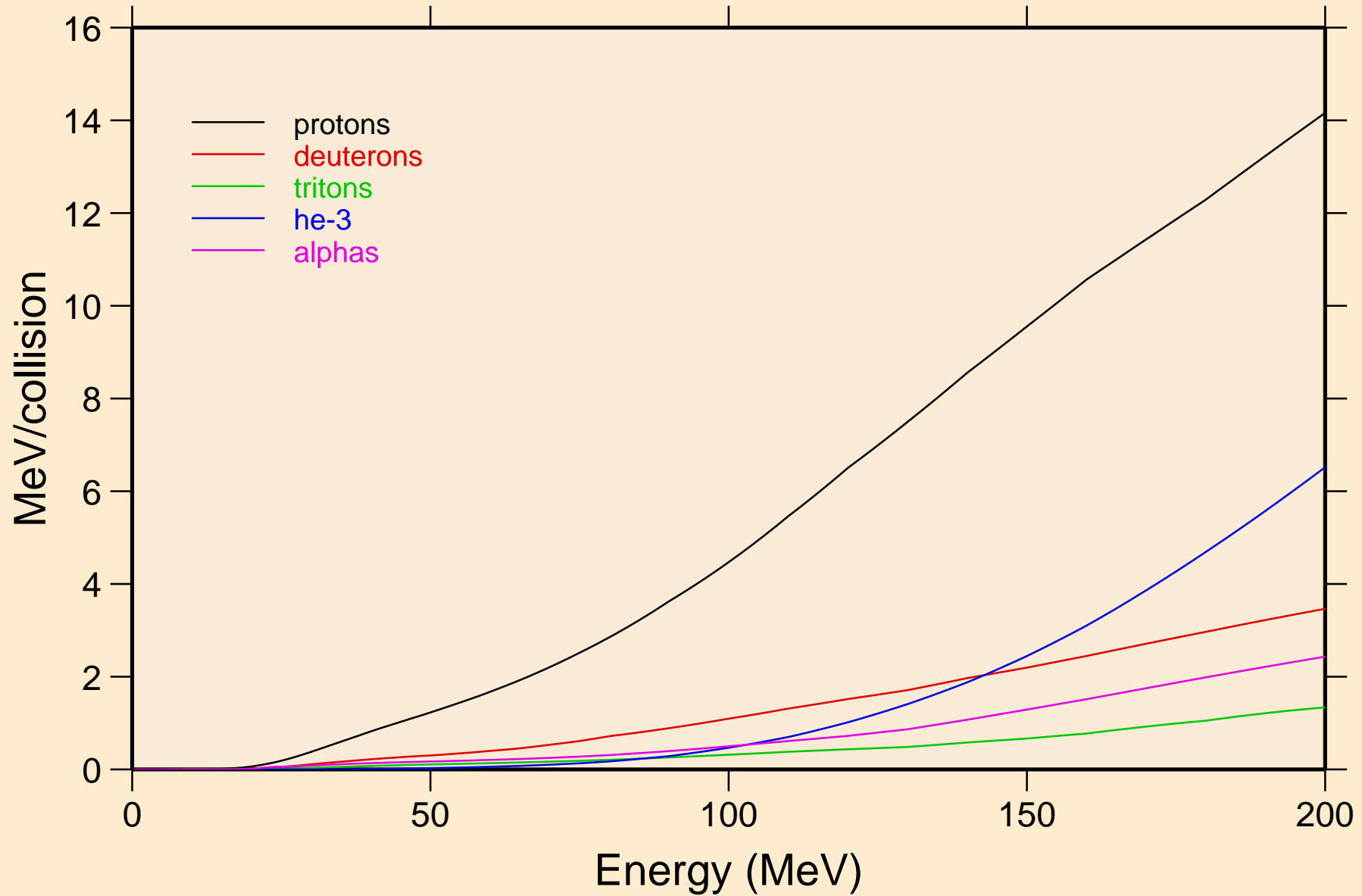


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum

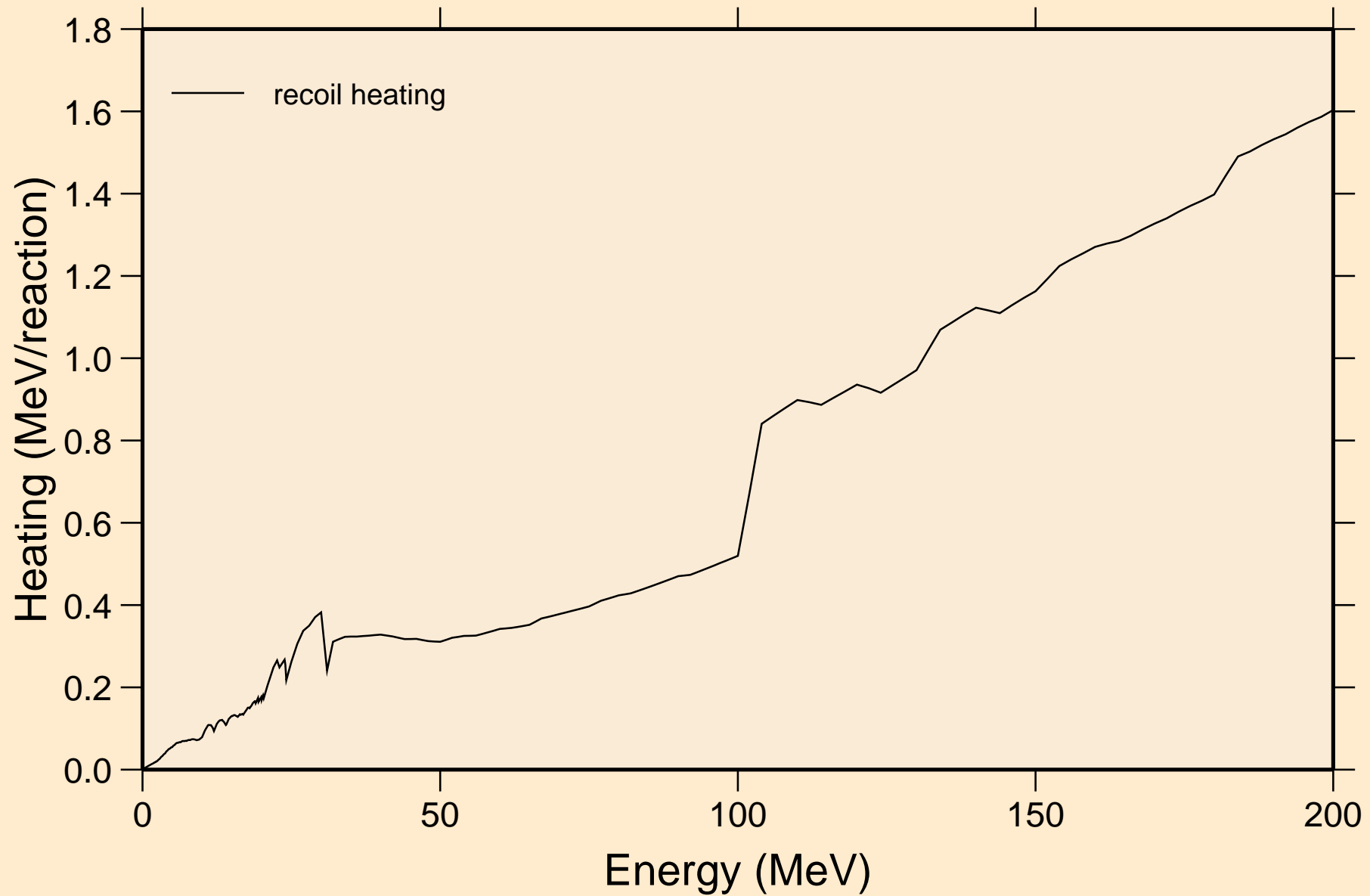


# IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

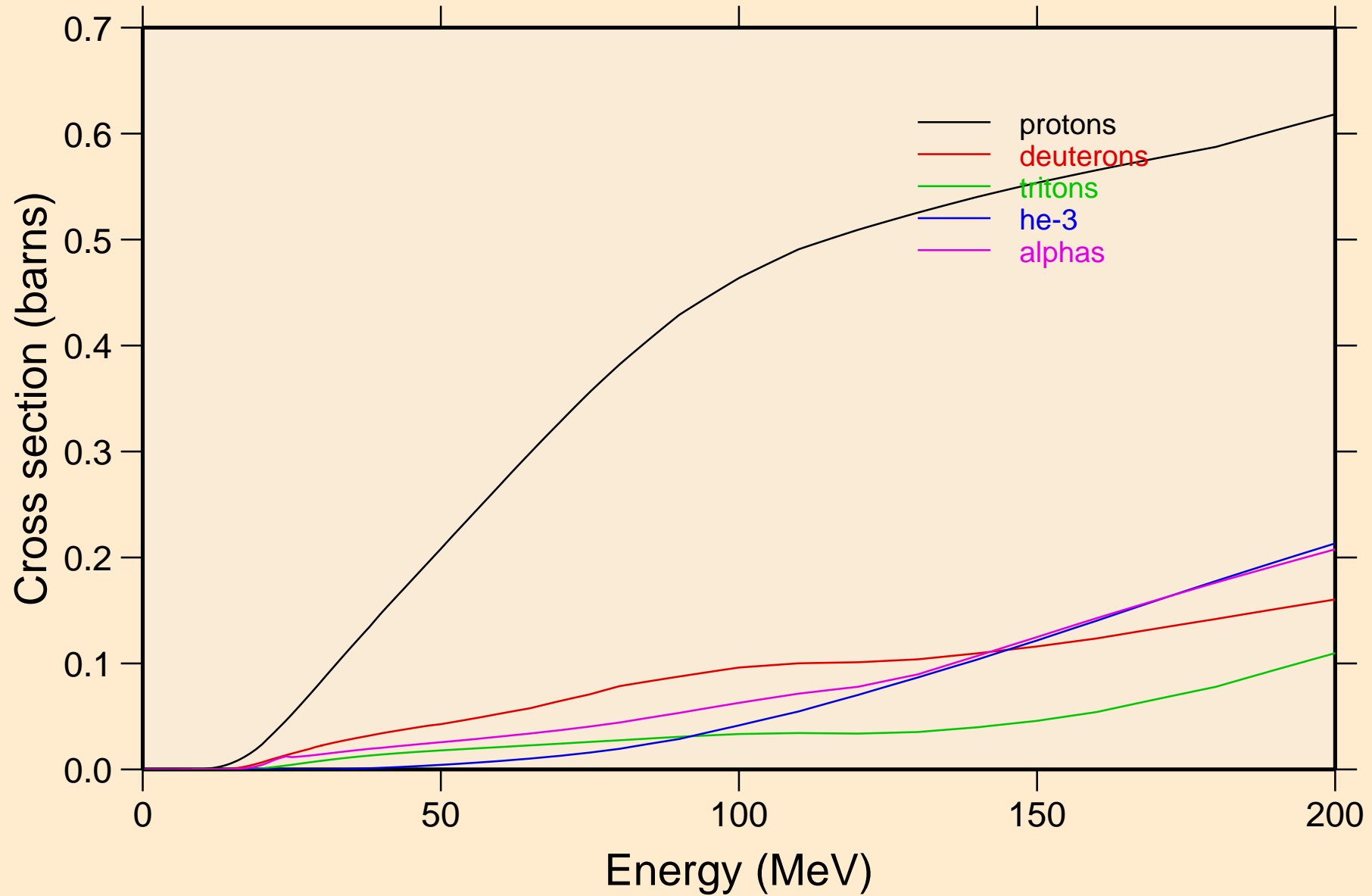
## Particle heating contributions



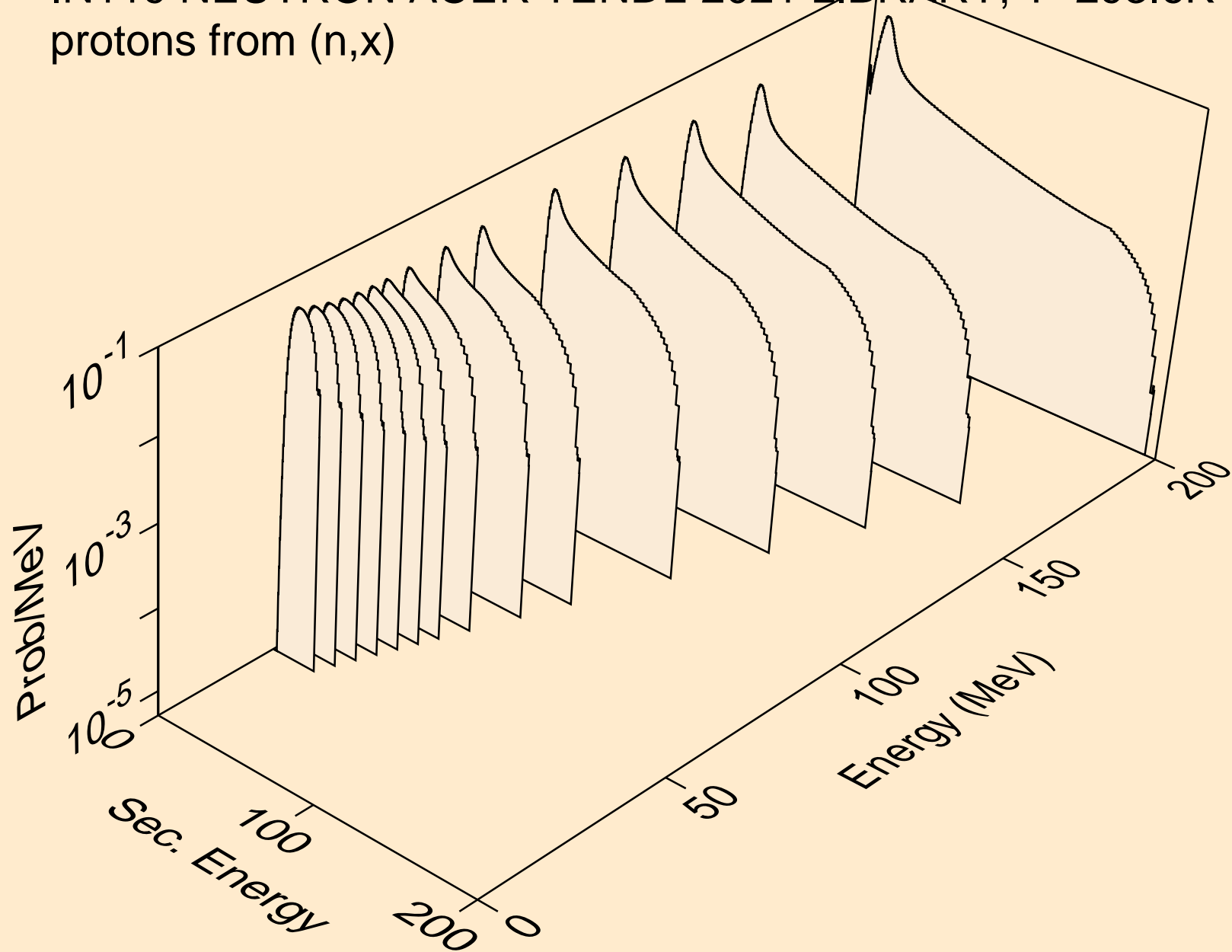
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections

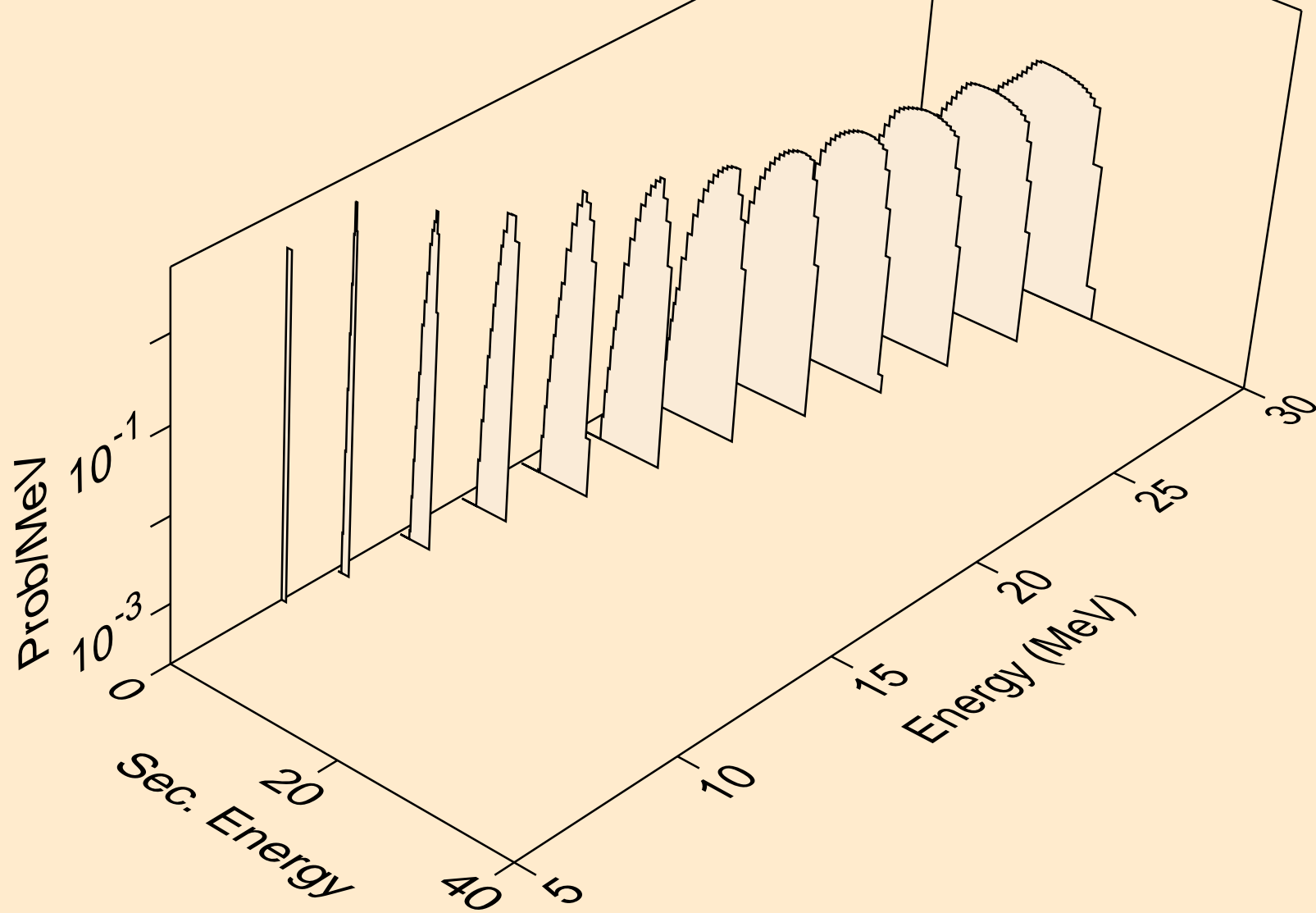


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)

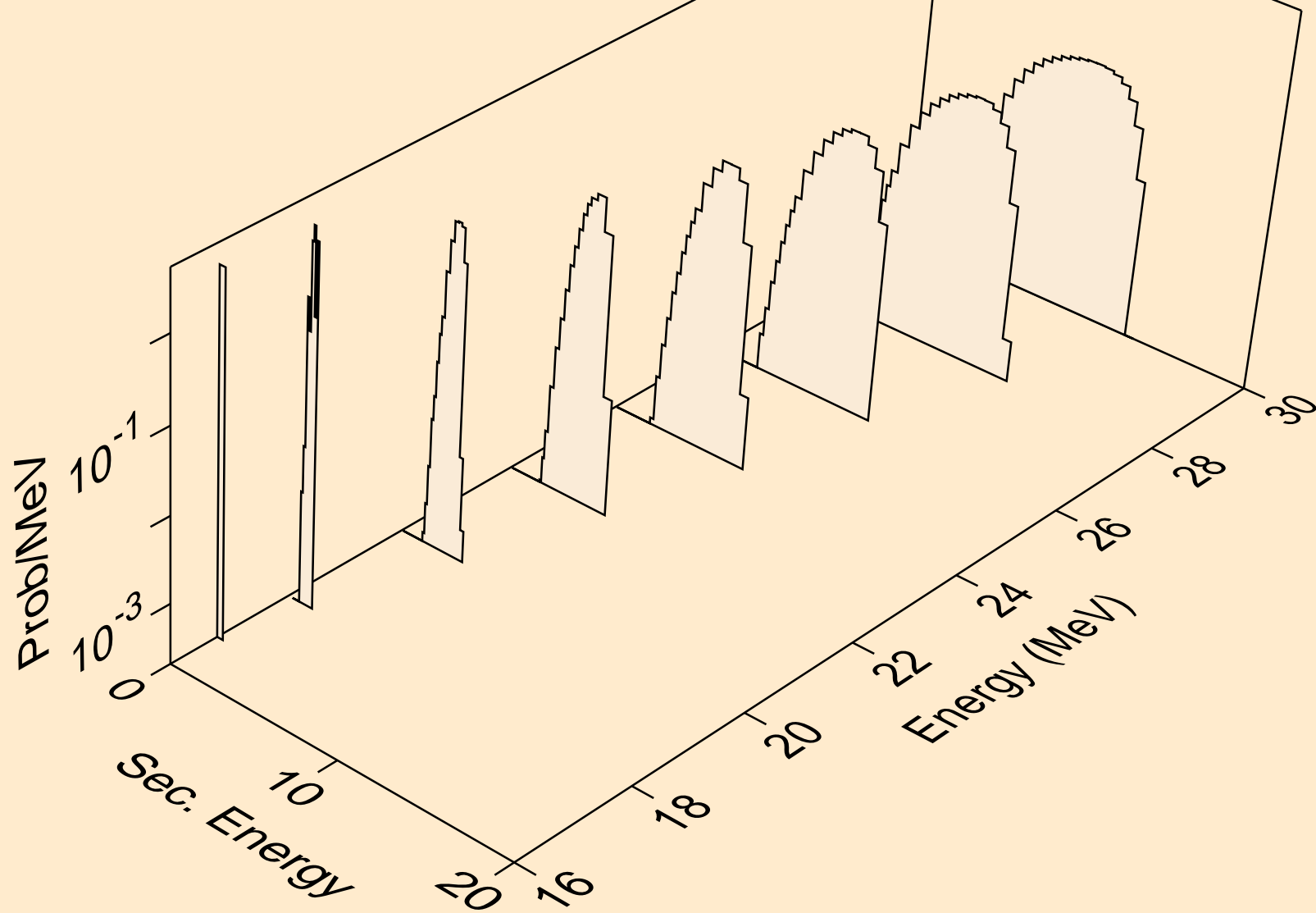




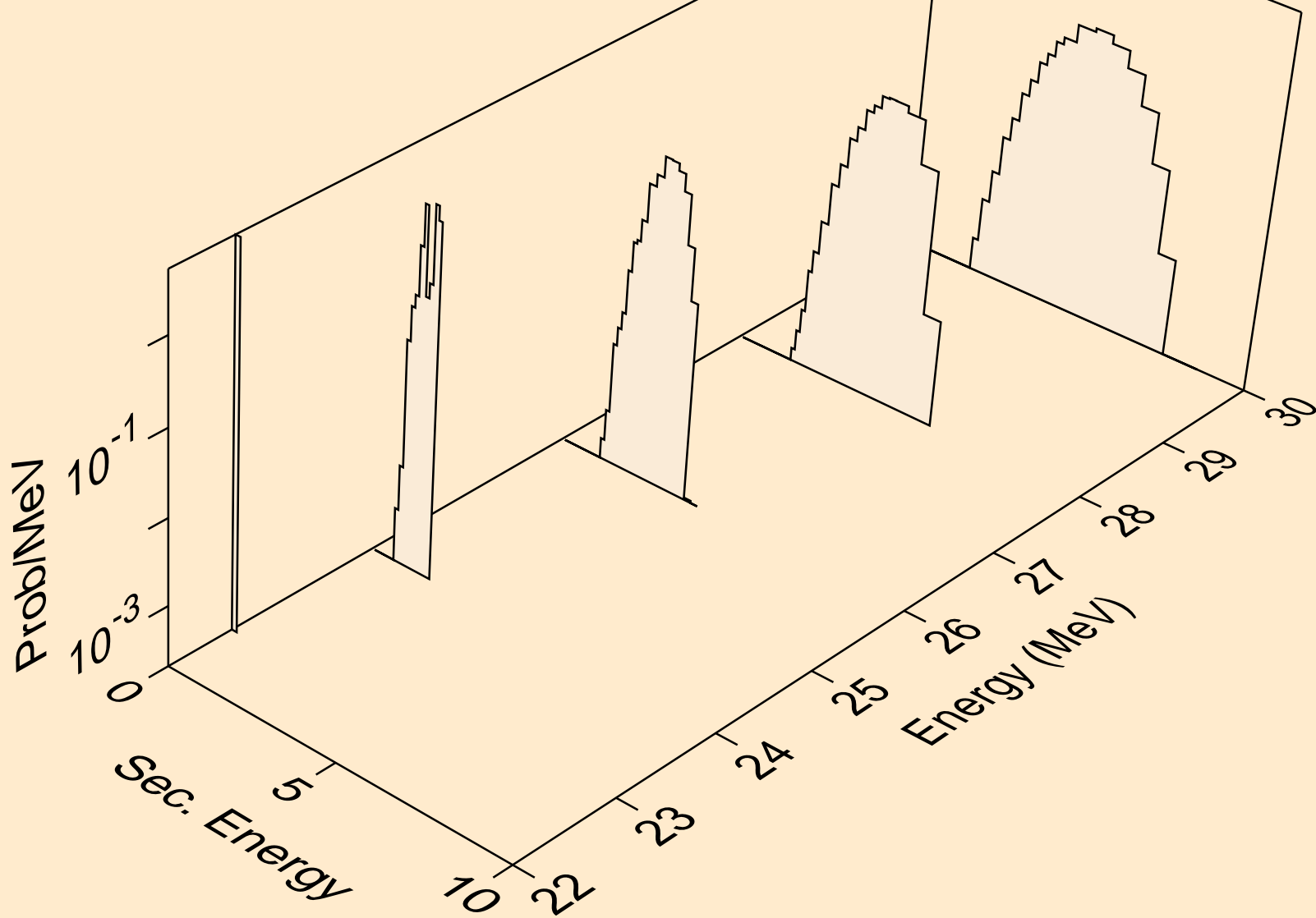
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



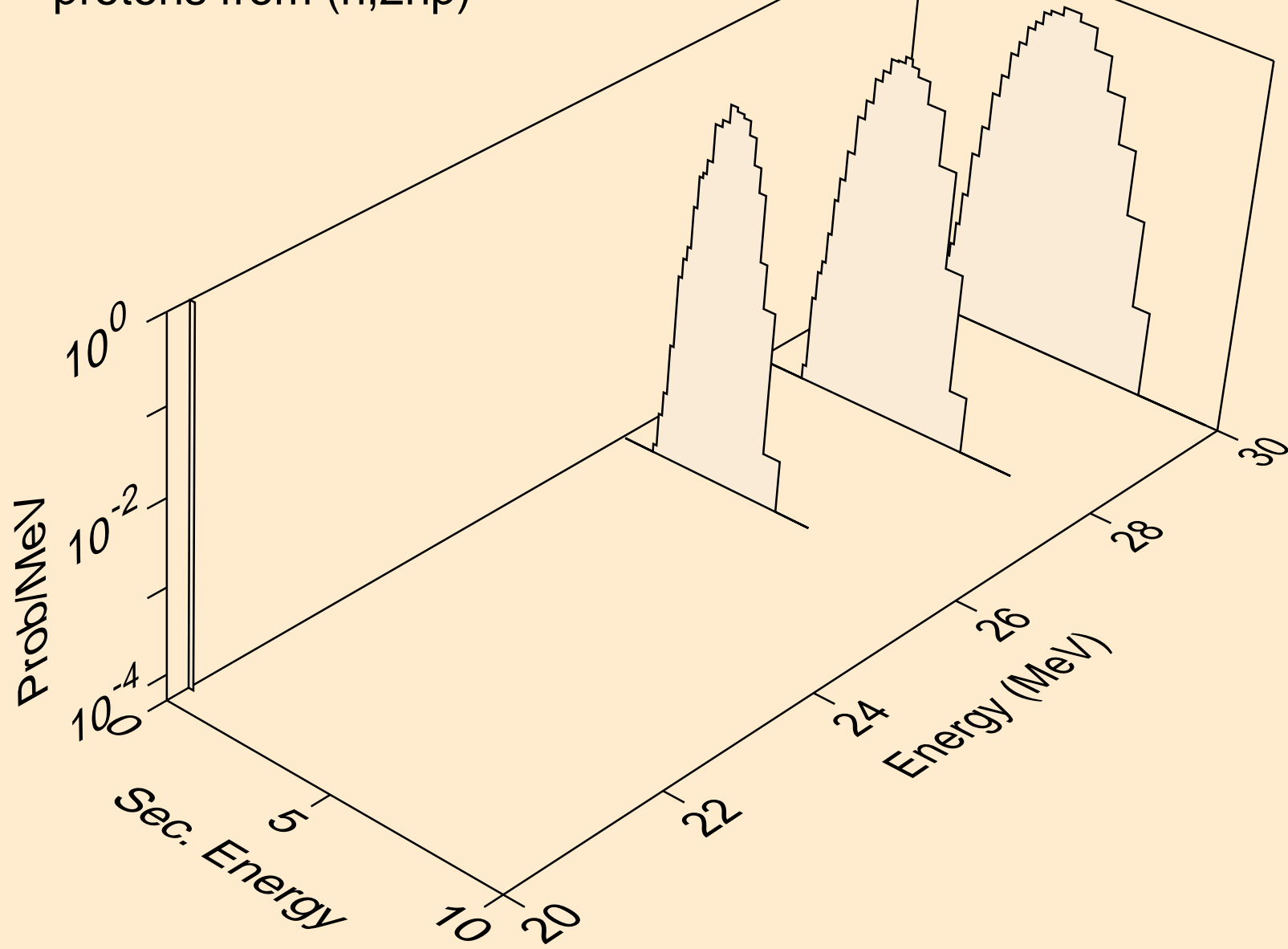
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protons from (n,2np)



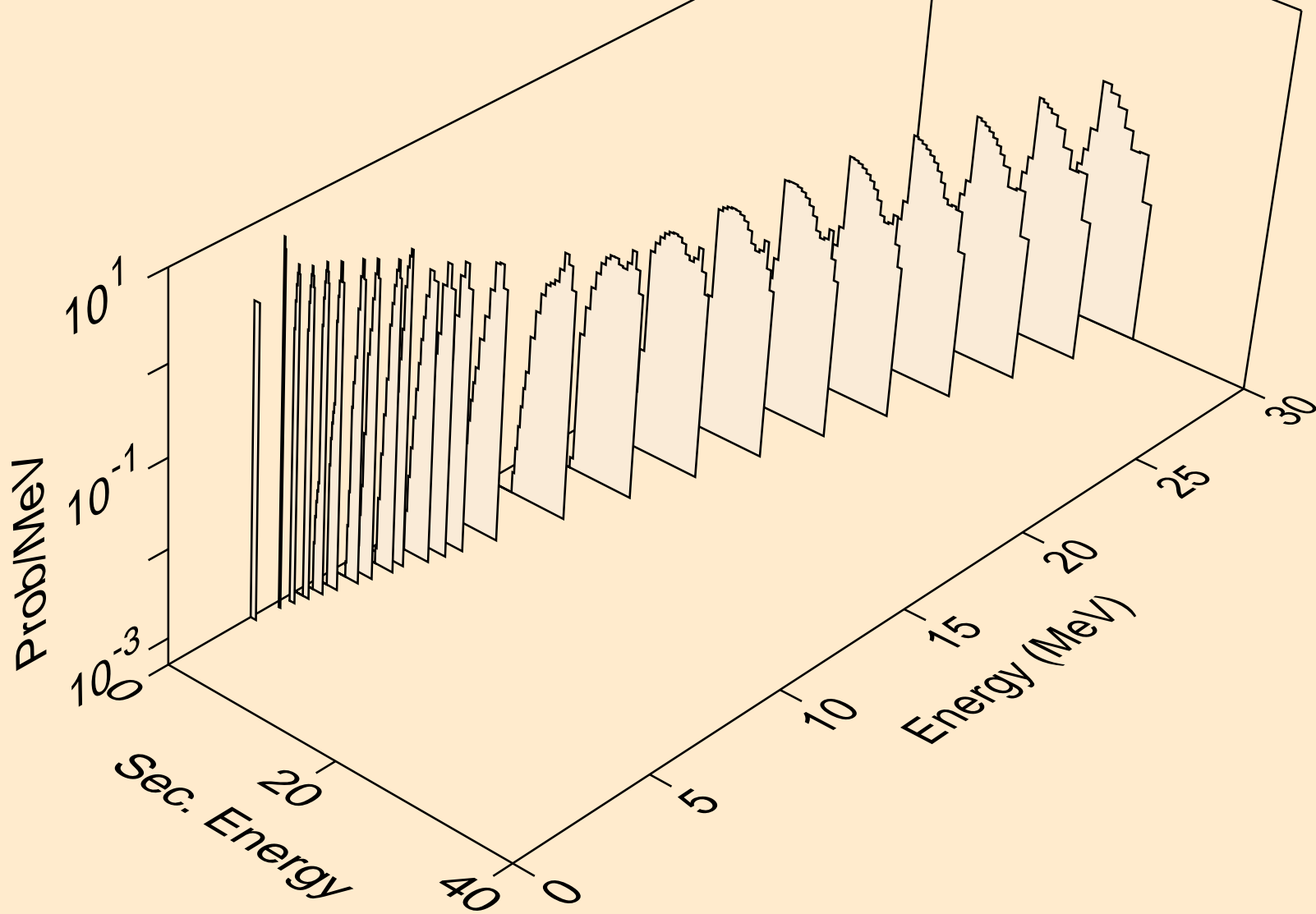
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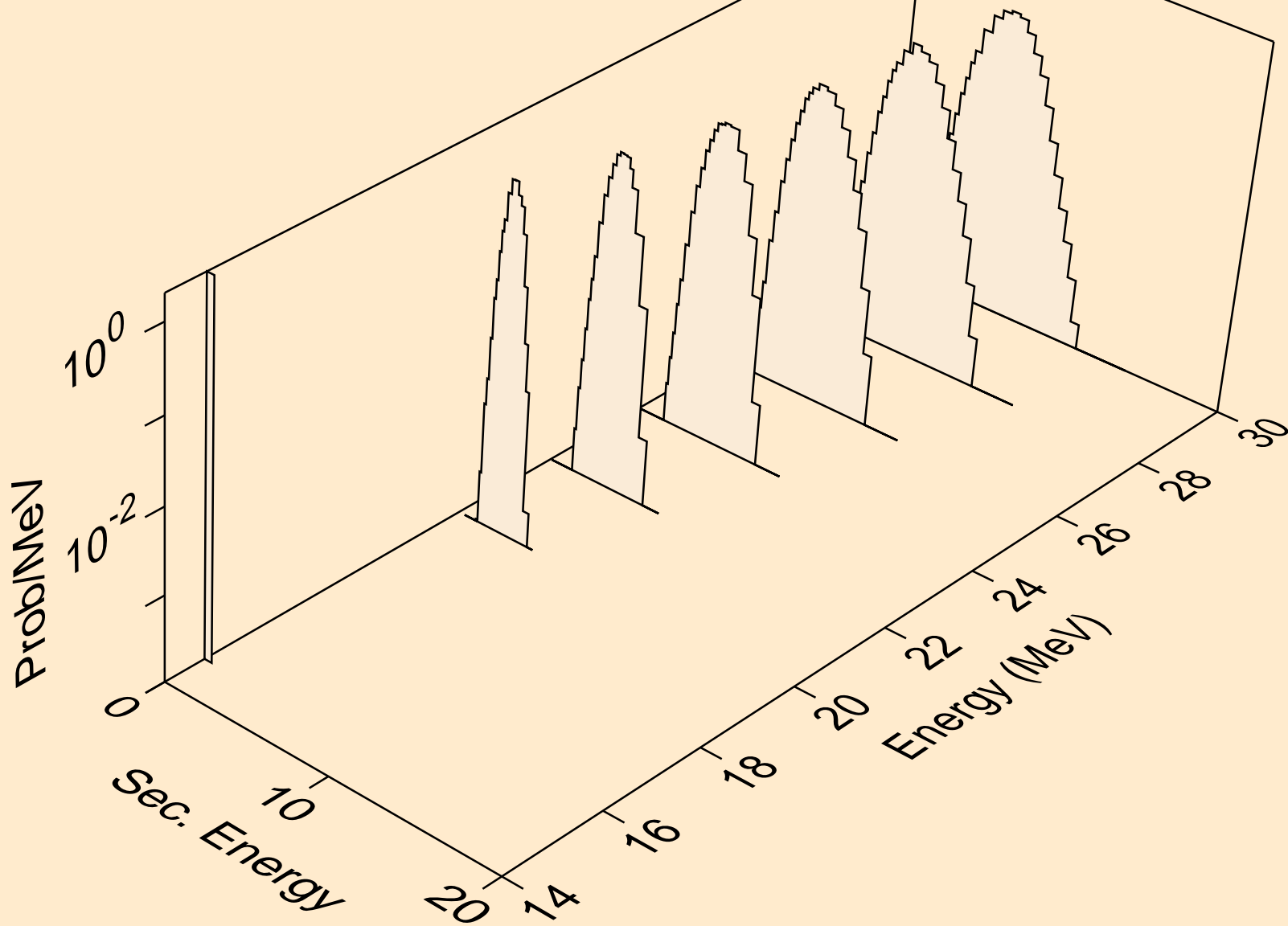
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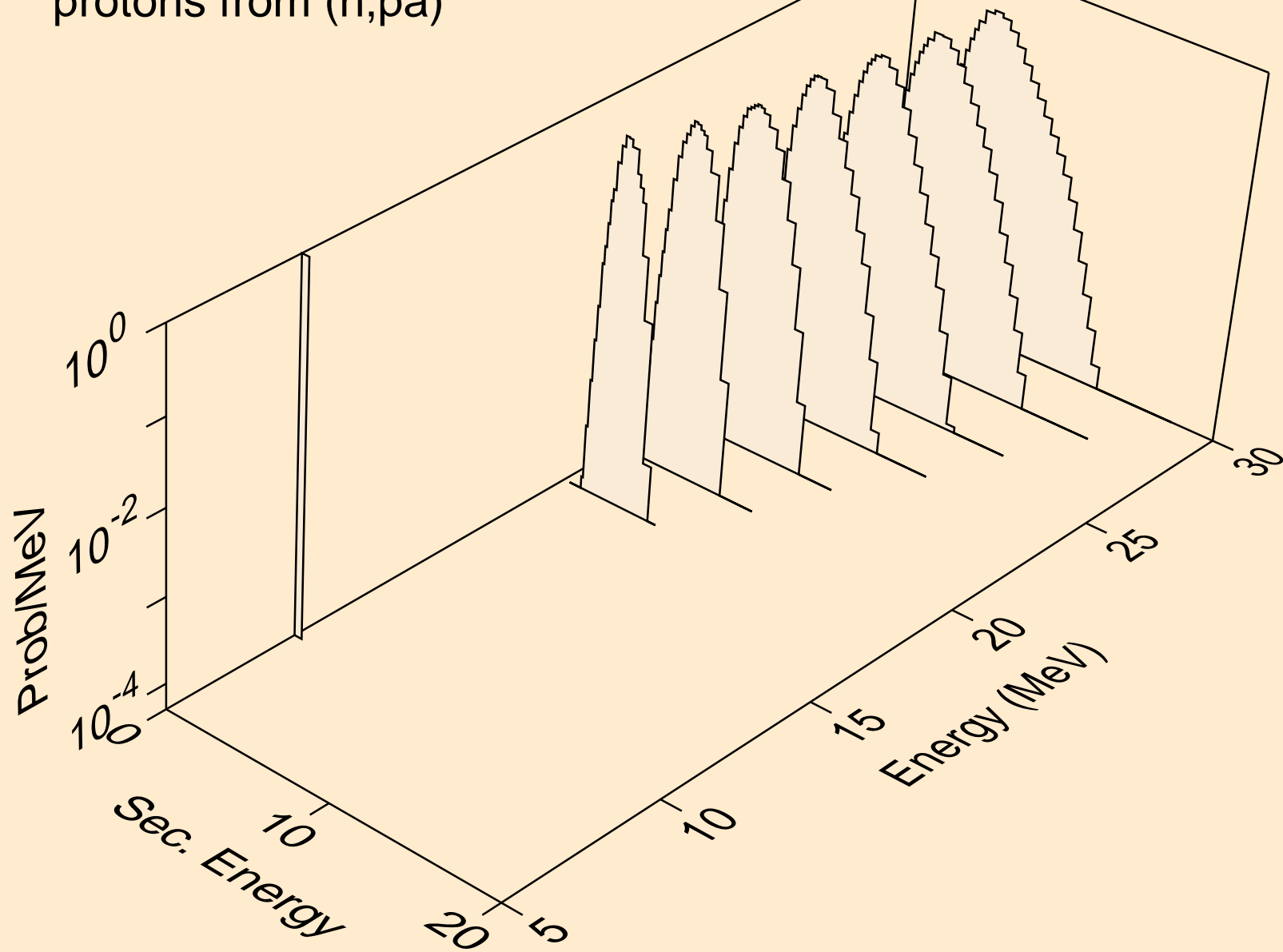
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protons from (n,p)



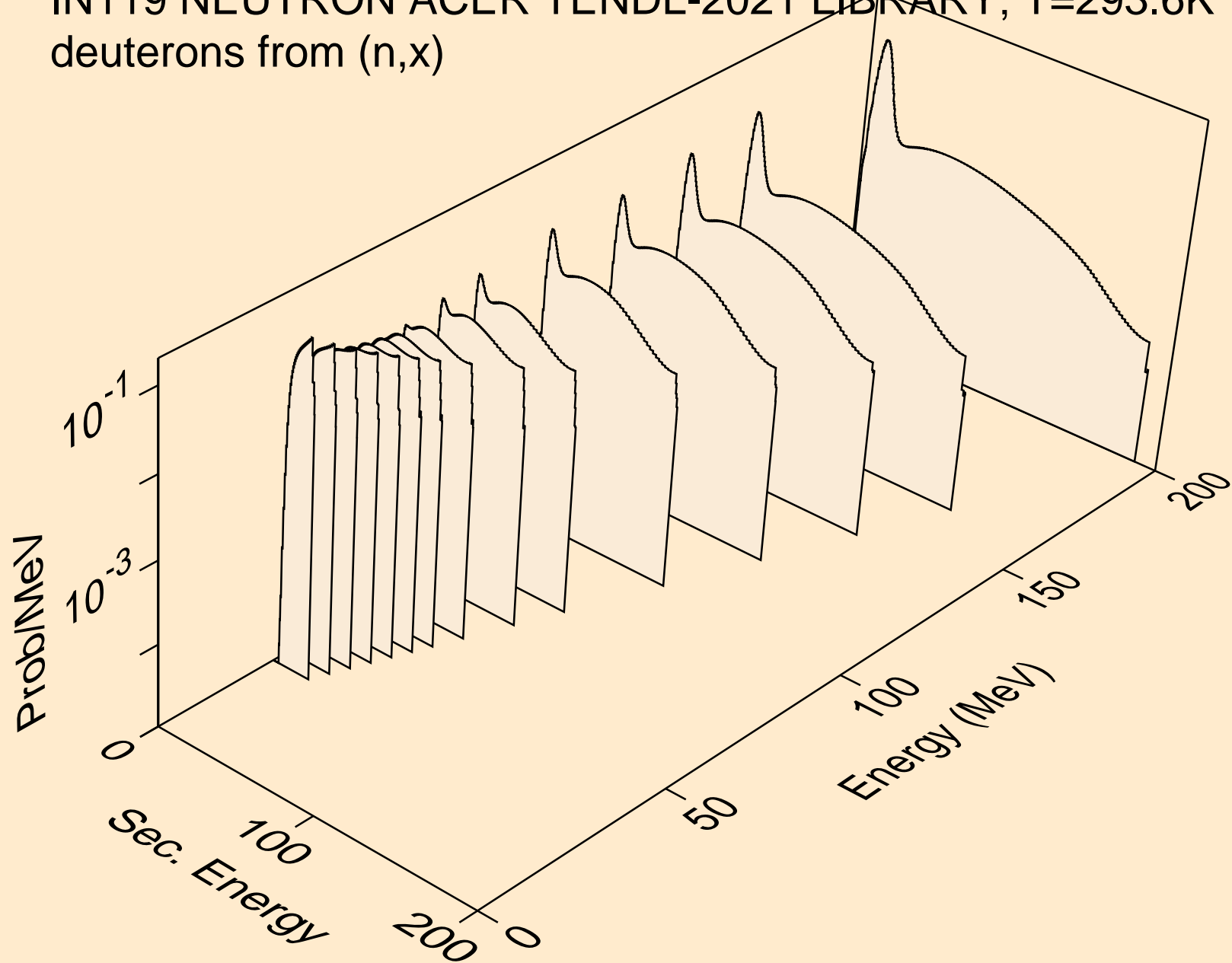
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protons from (n,2p)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

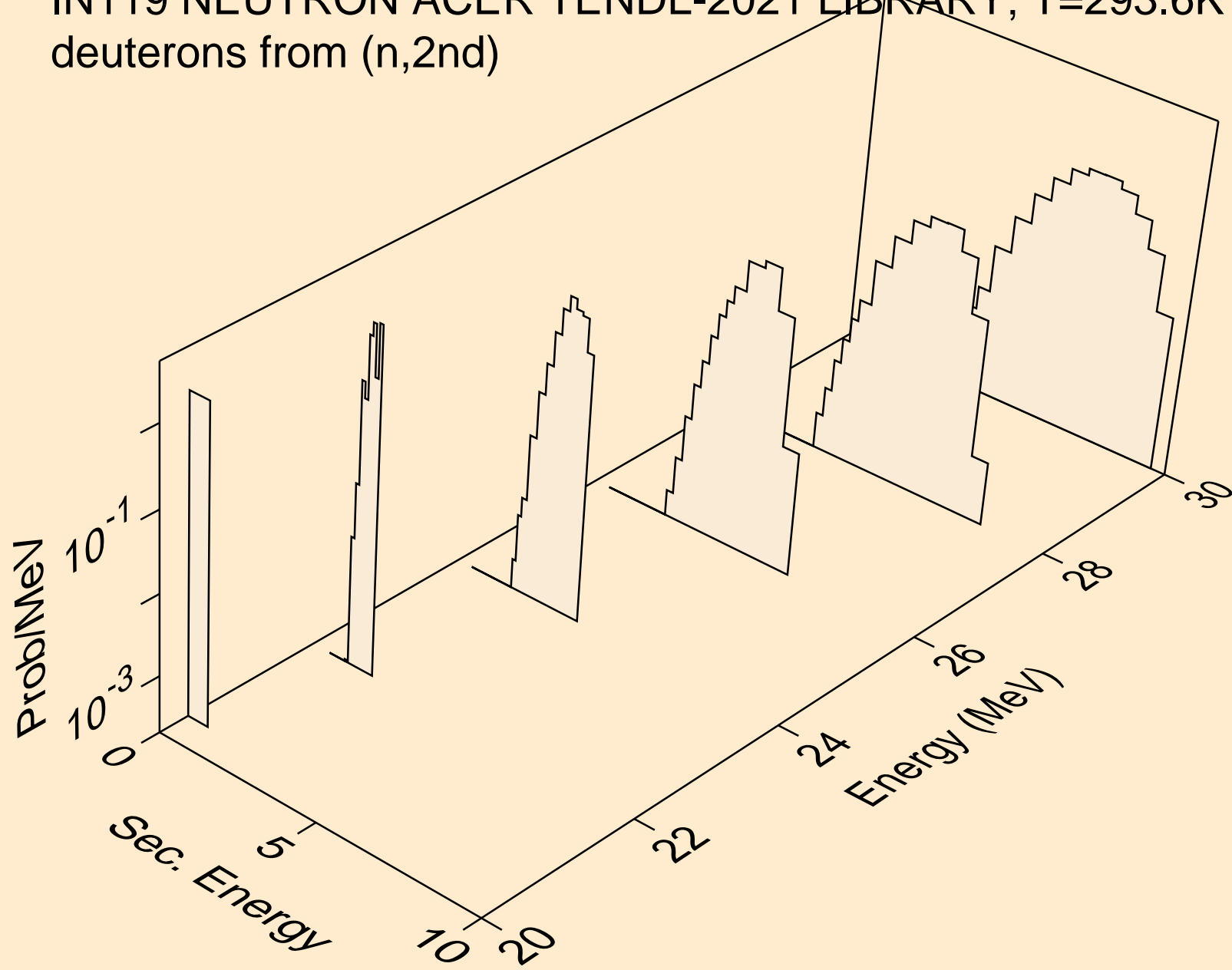


IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)

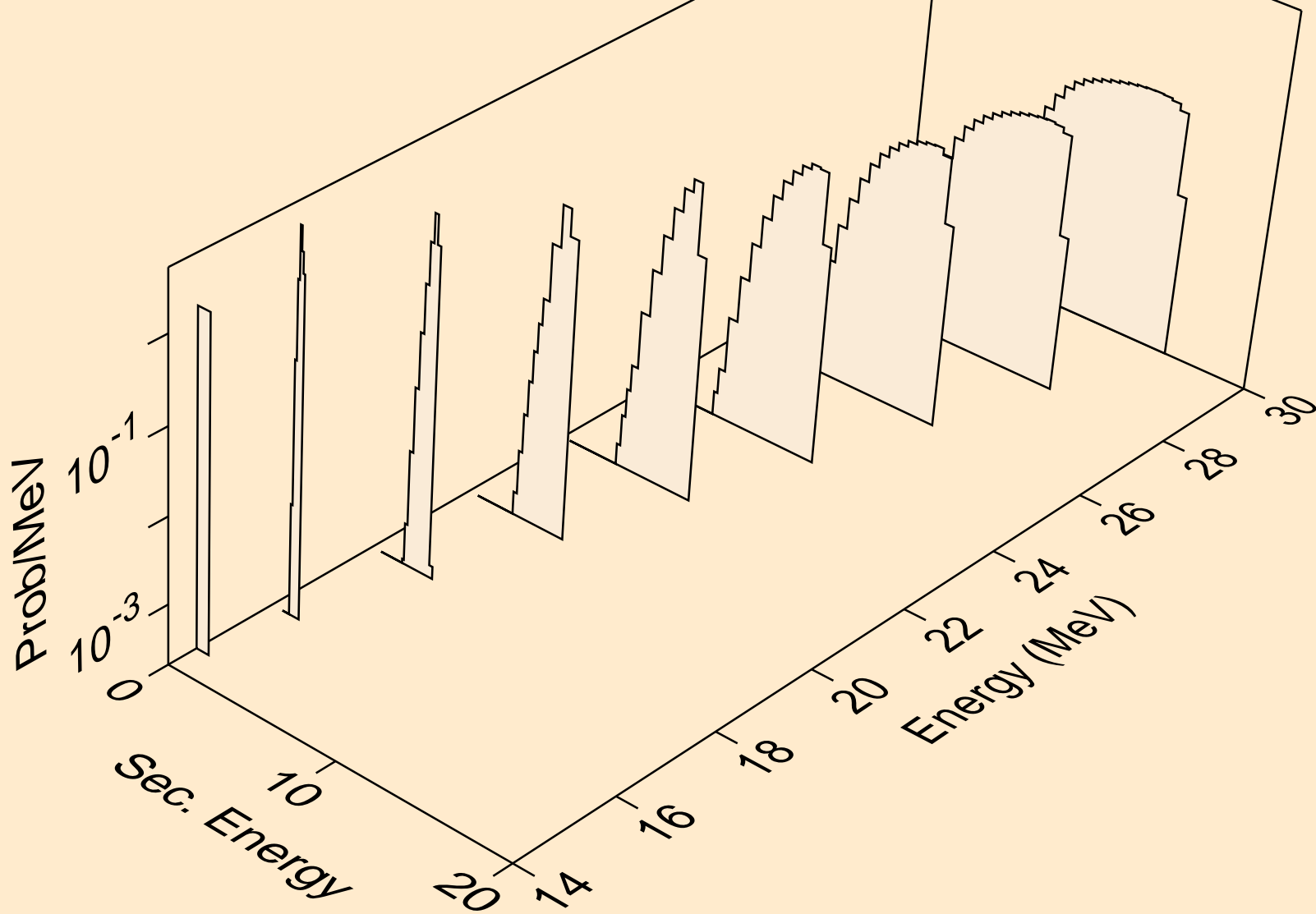




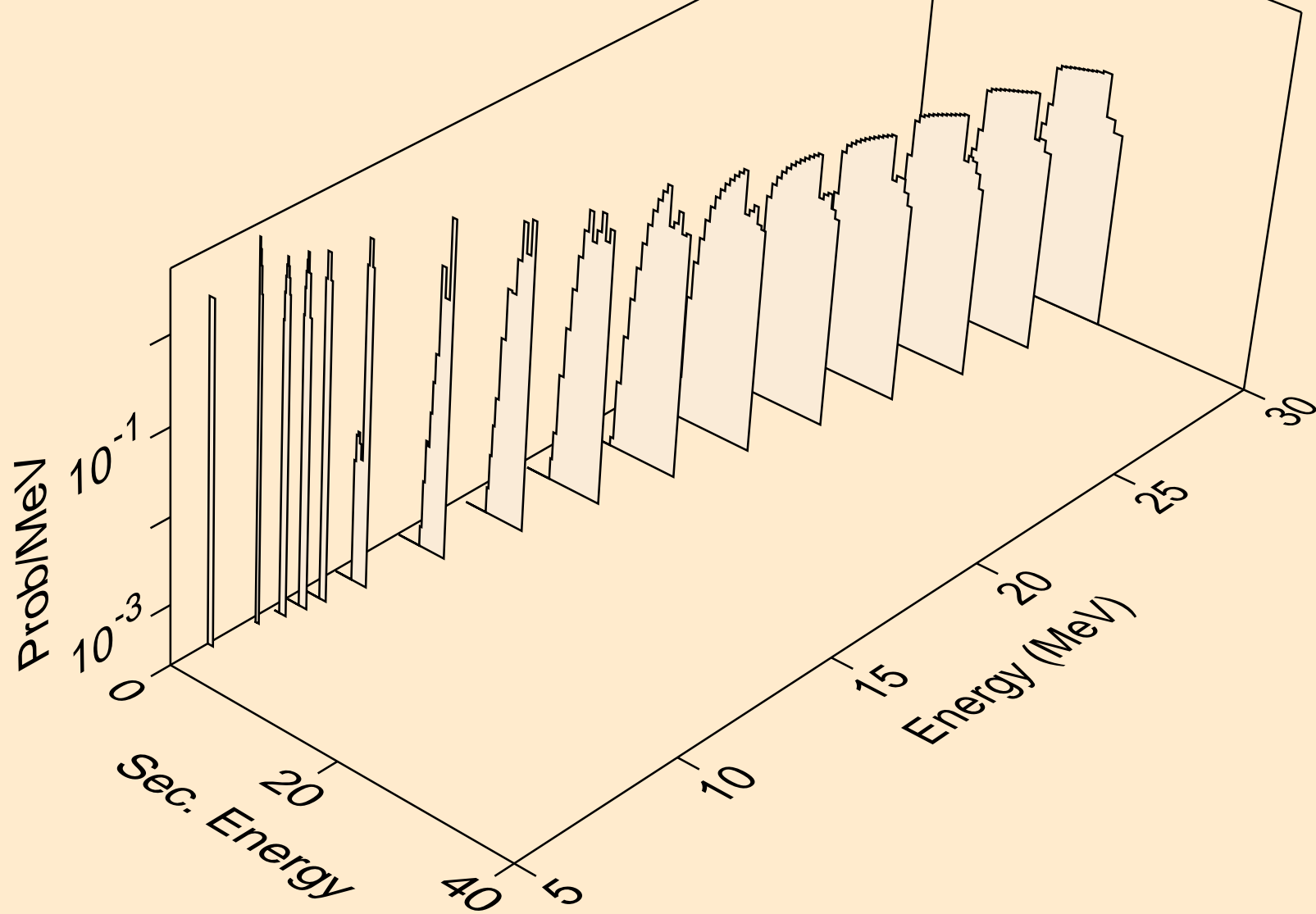
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deuterons from (n,2nd)



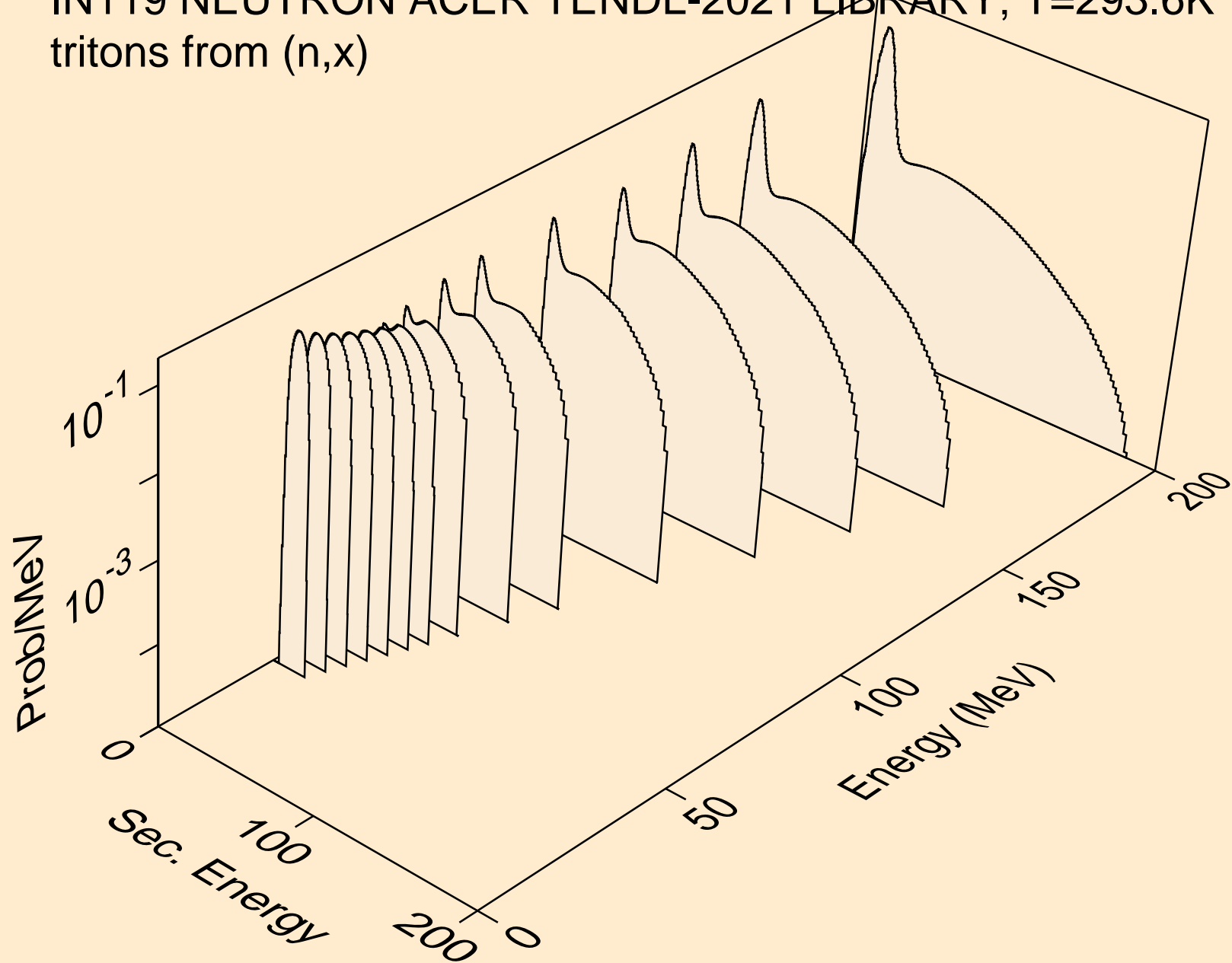
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deuterons from (n,n\*)d



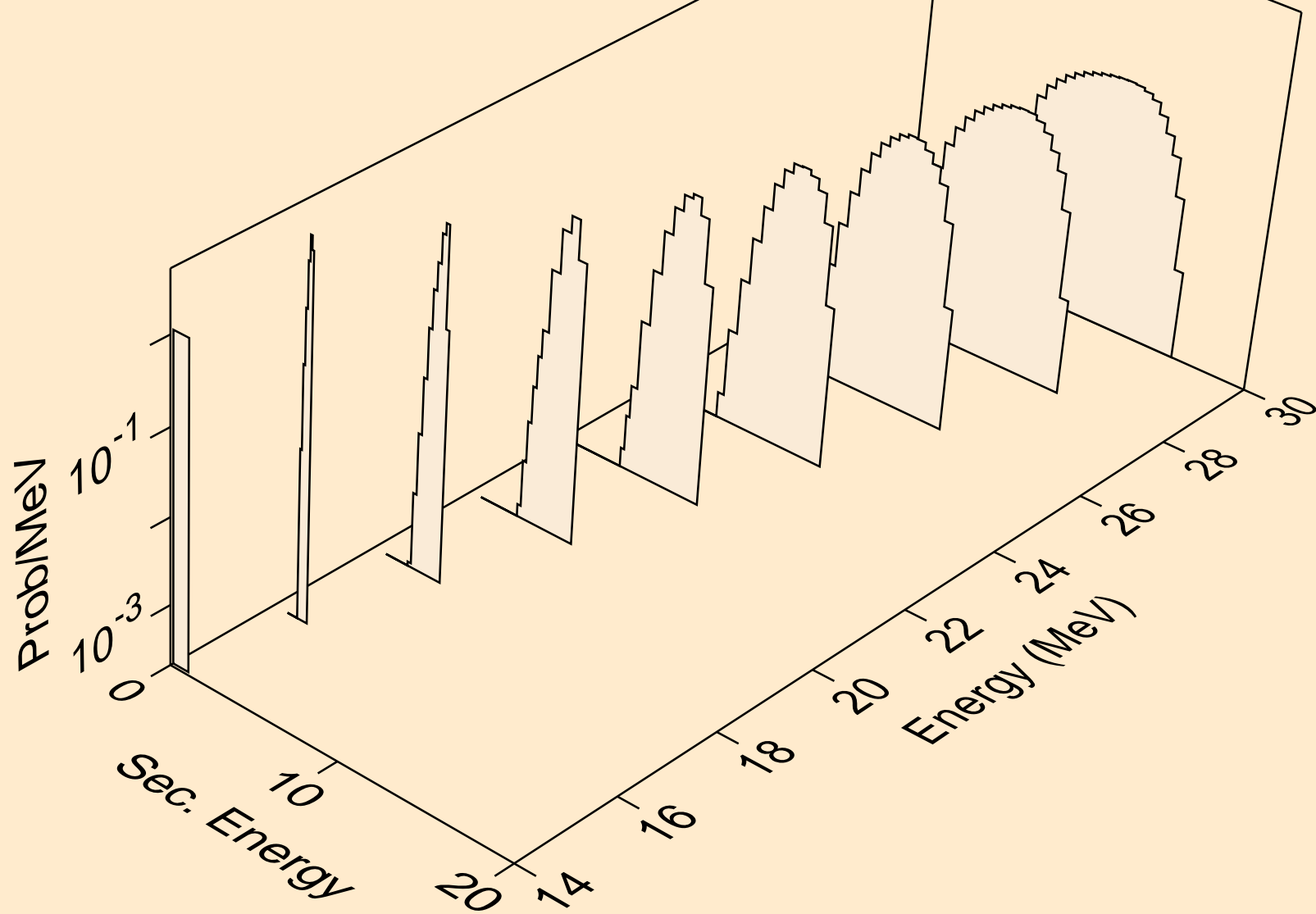
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deuterons from (n,d)



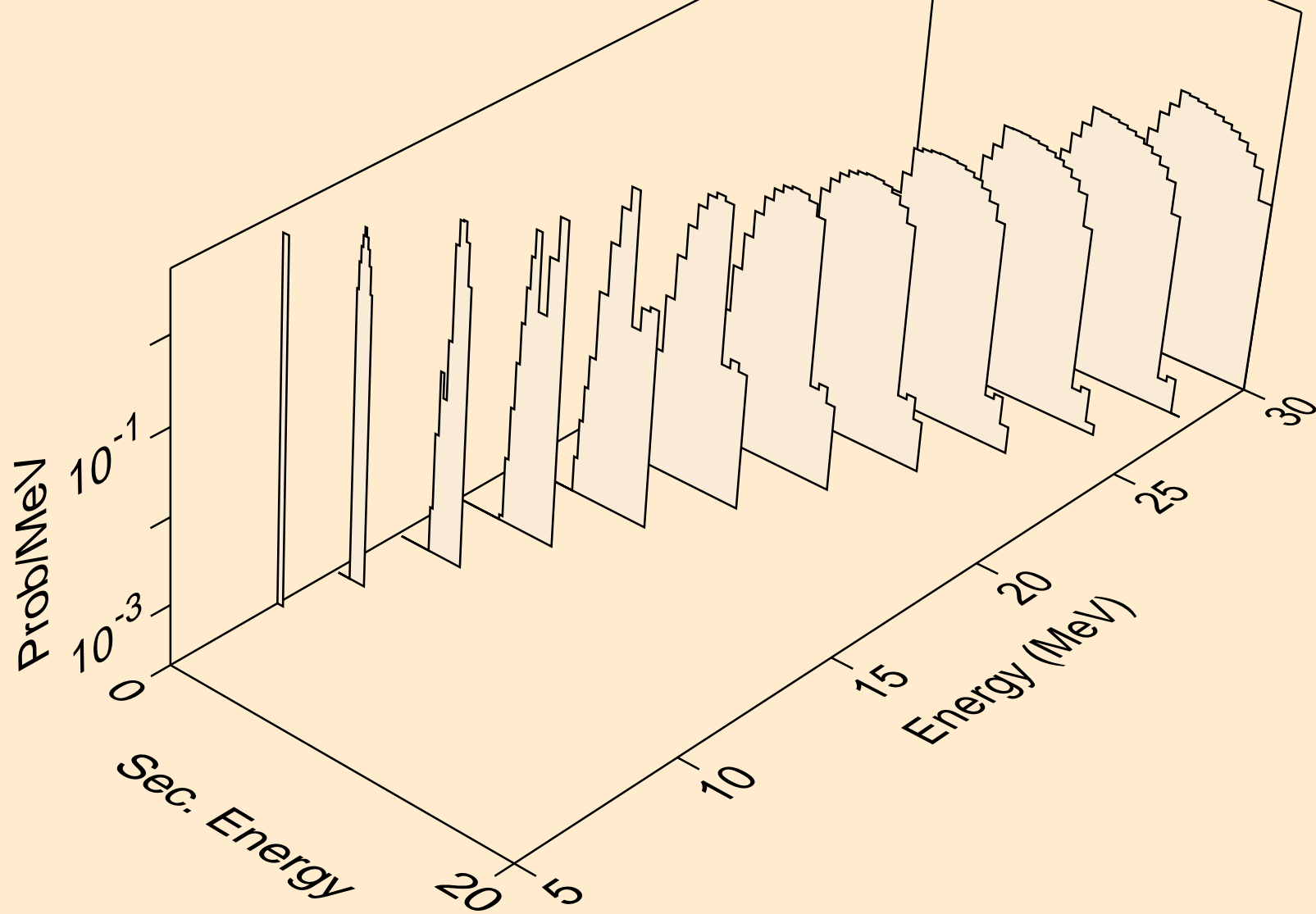
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)



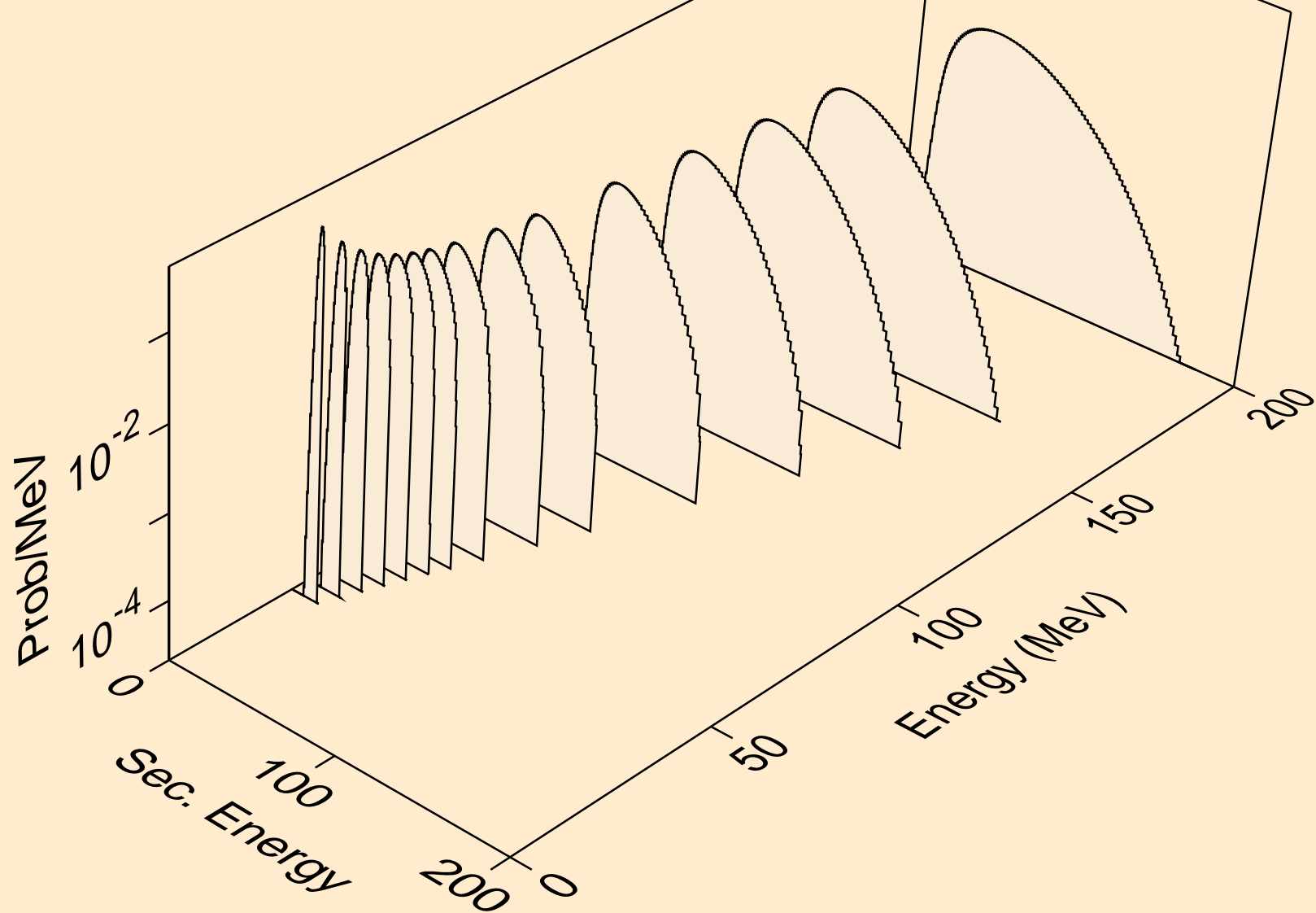
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



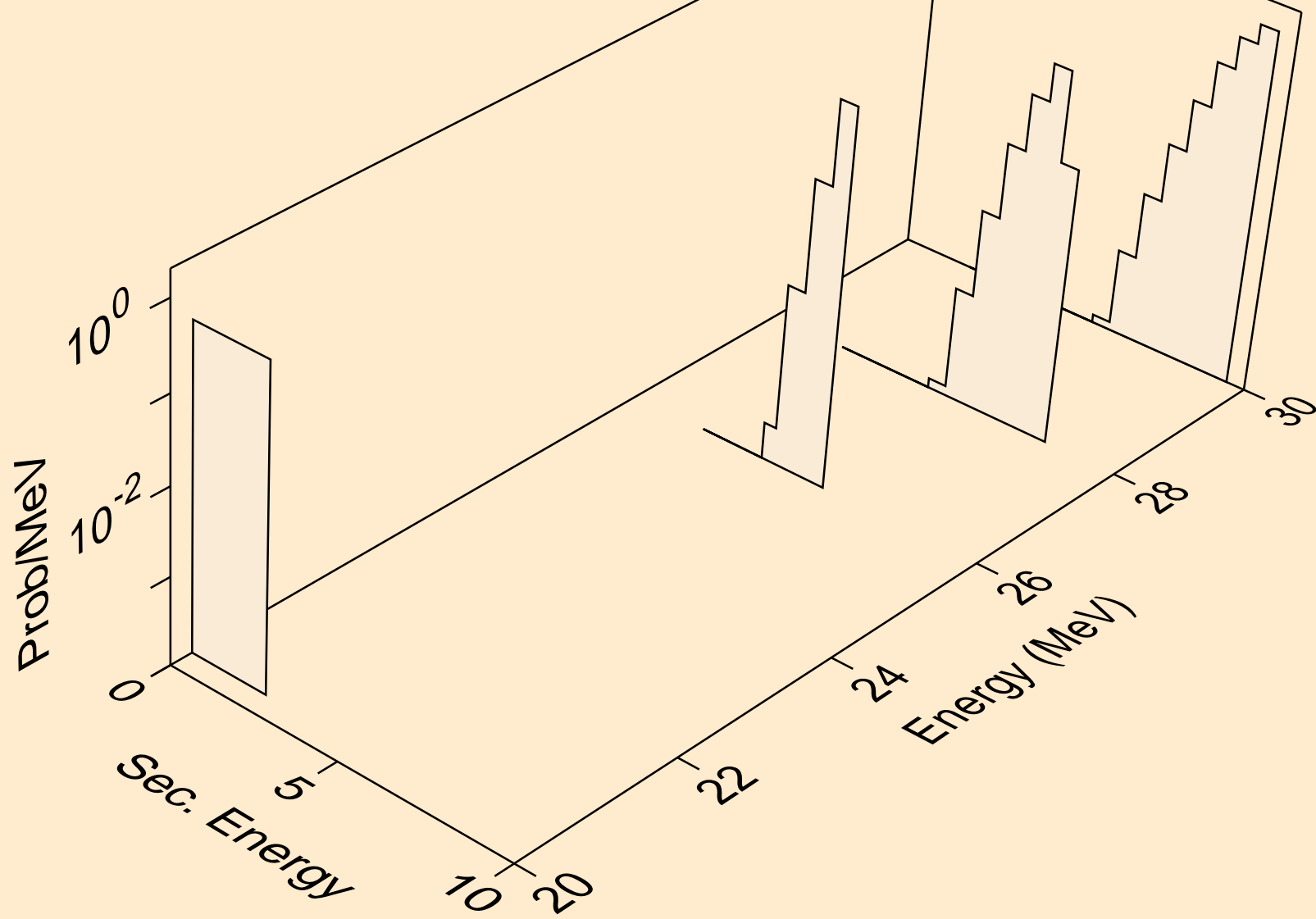
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)

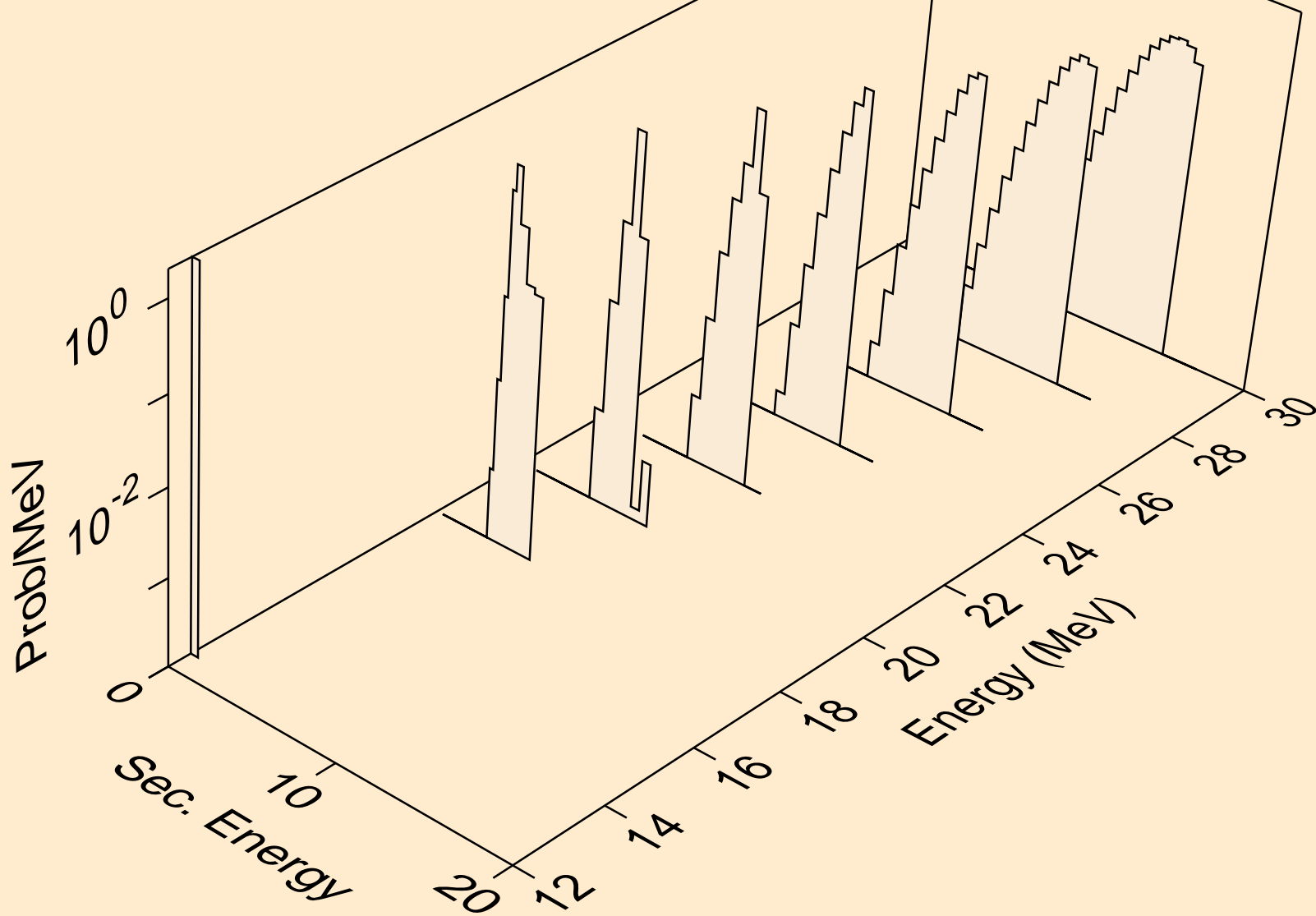


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he3s from (n,n\*)he3

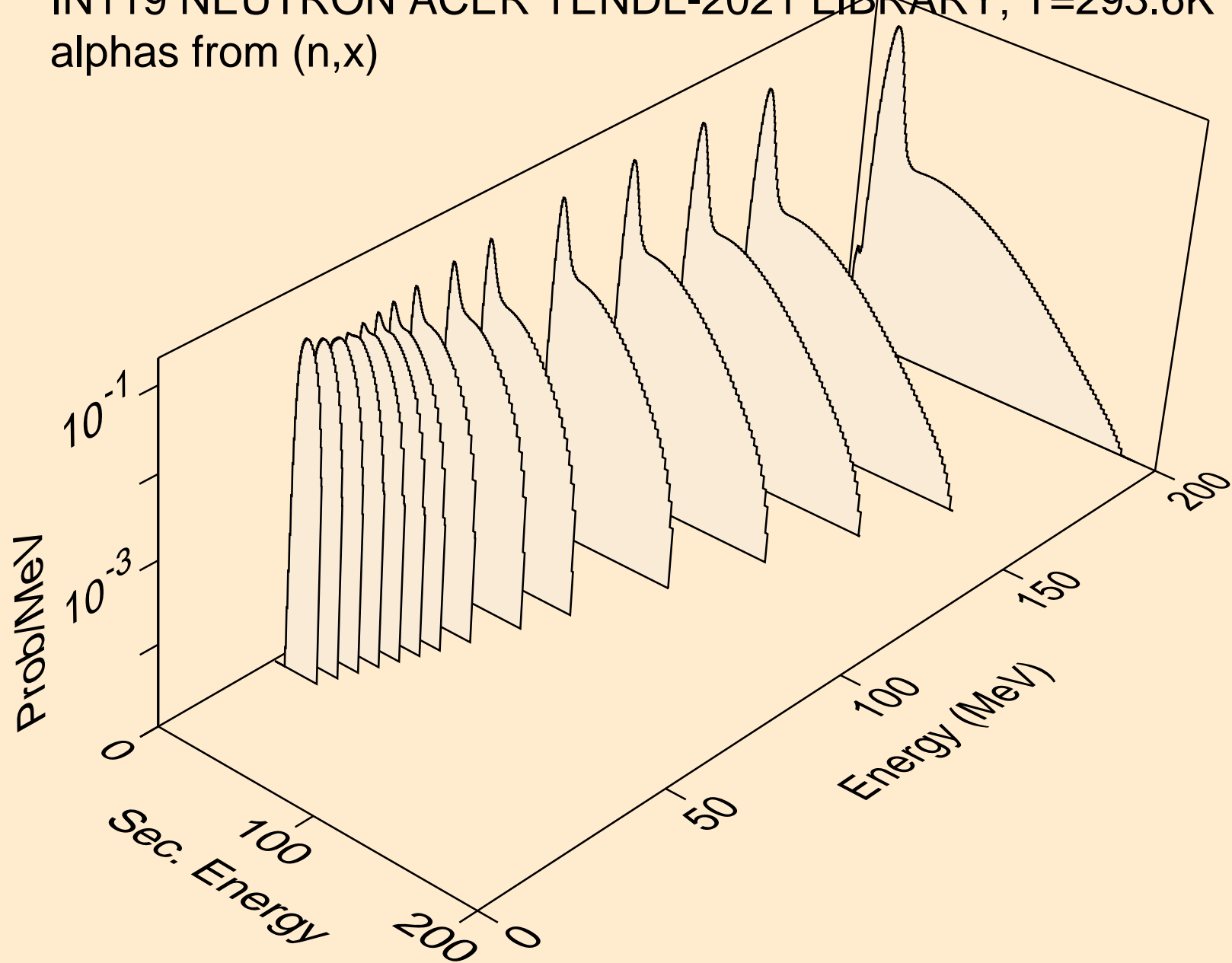




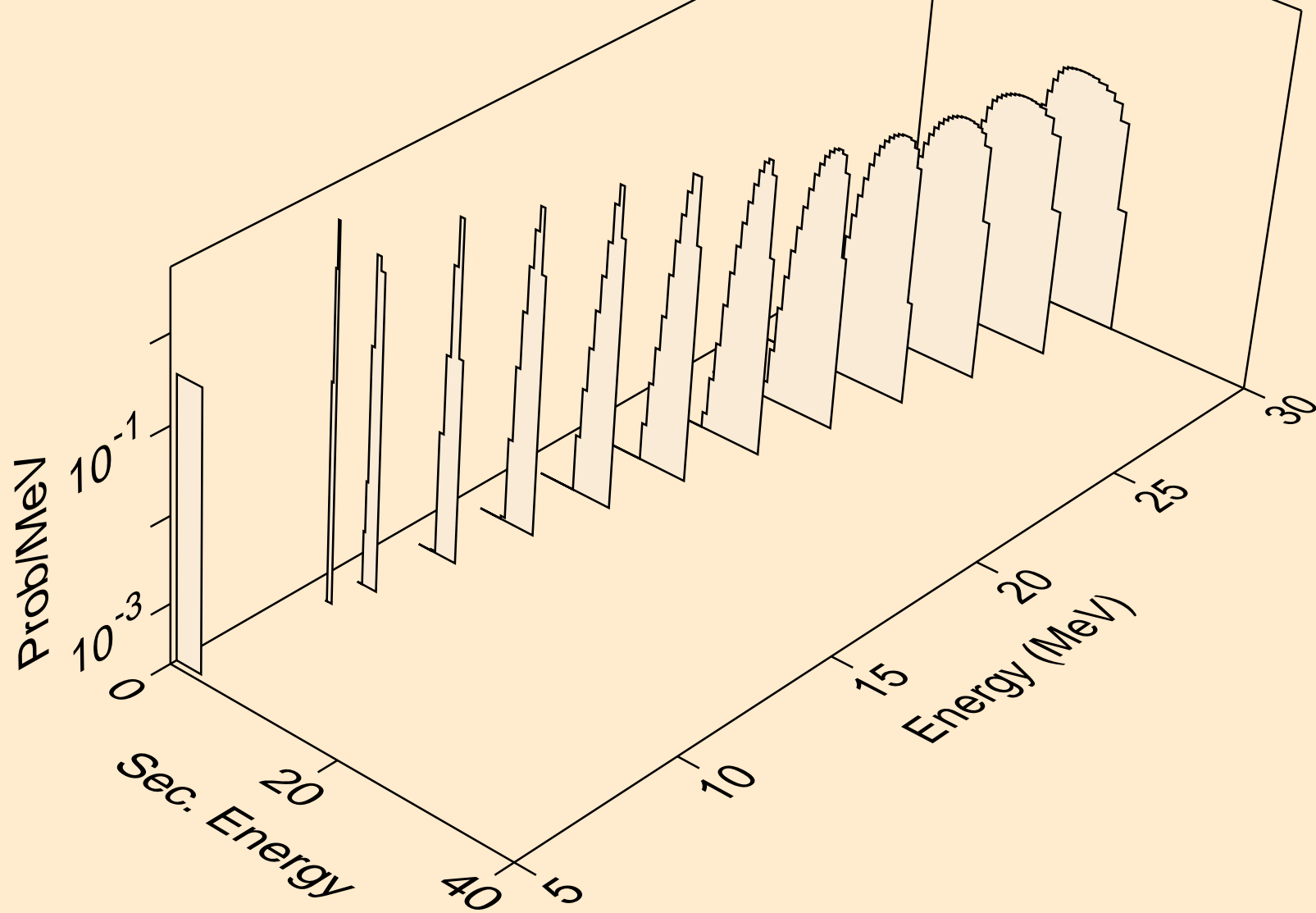
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he3s from (n,he3)



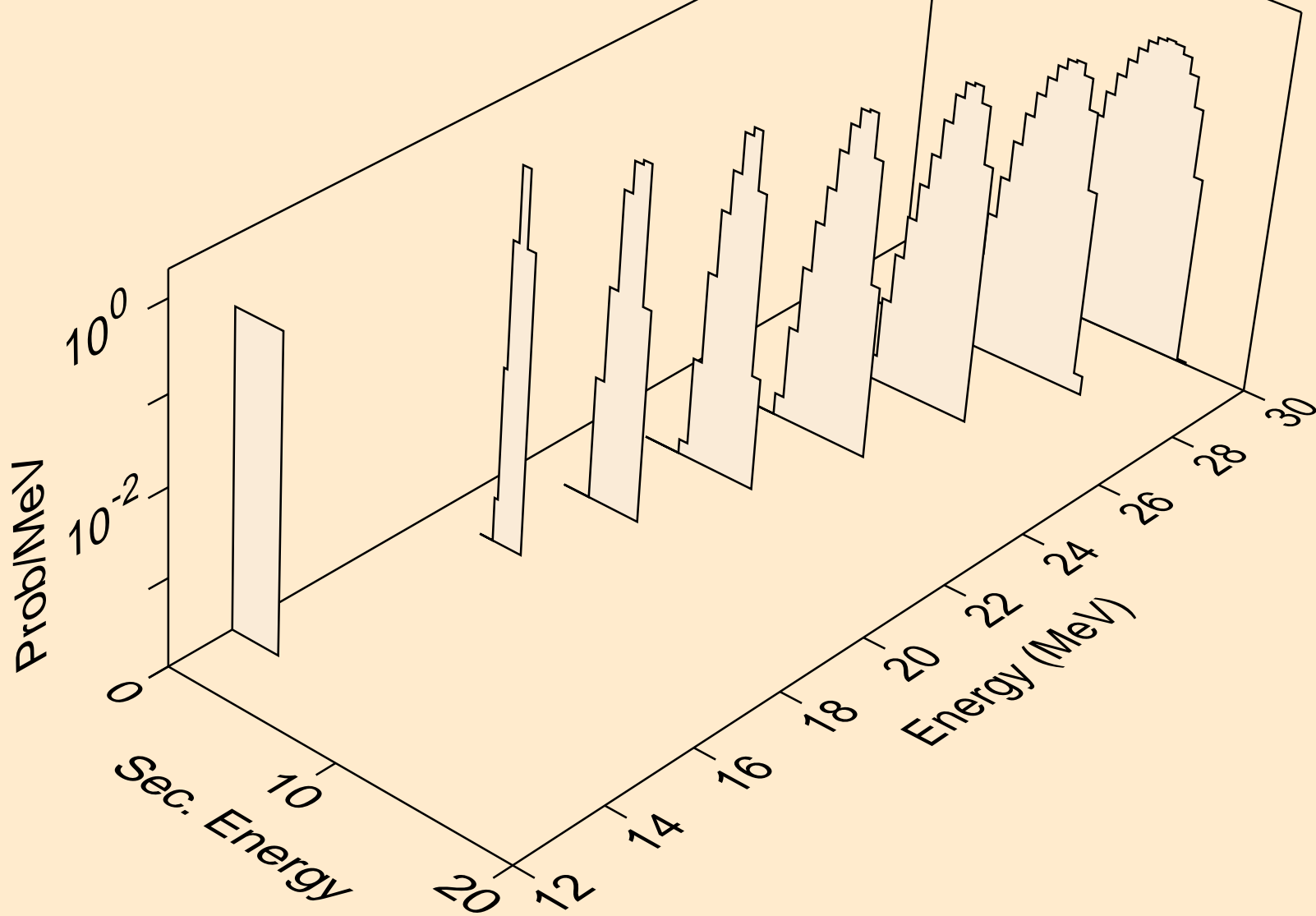
IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



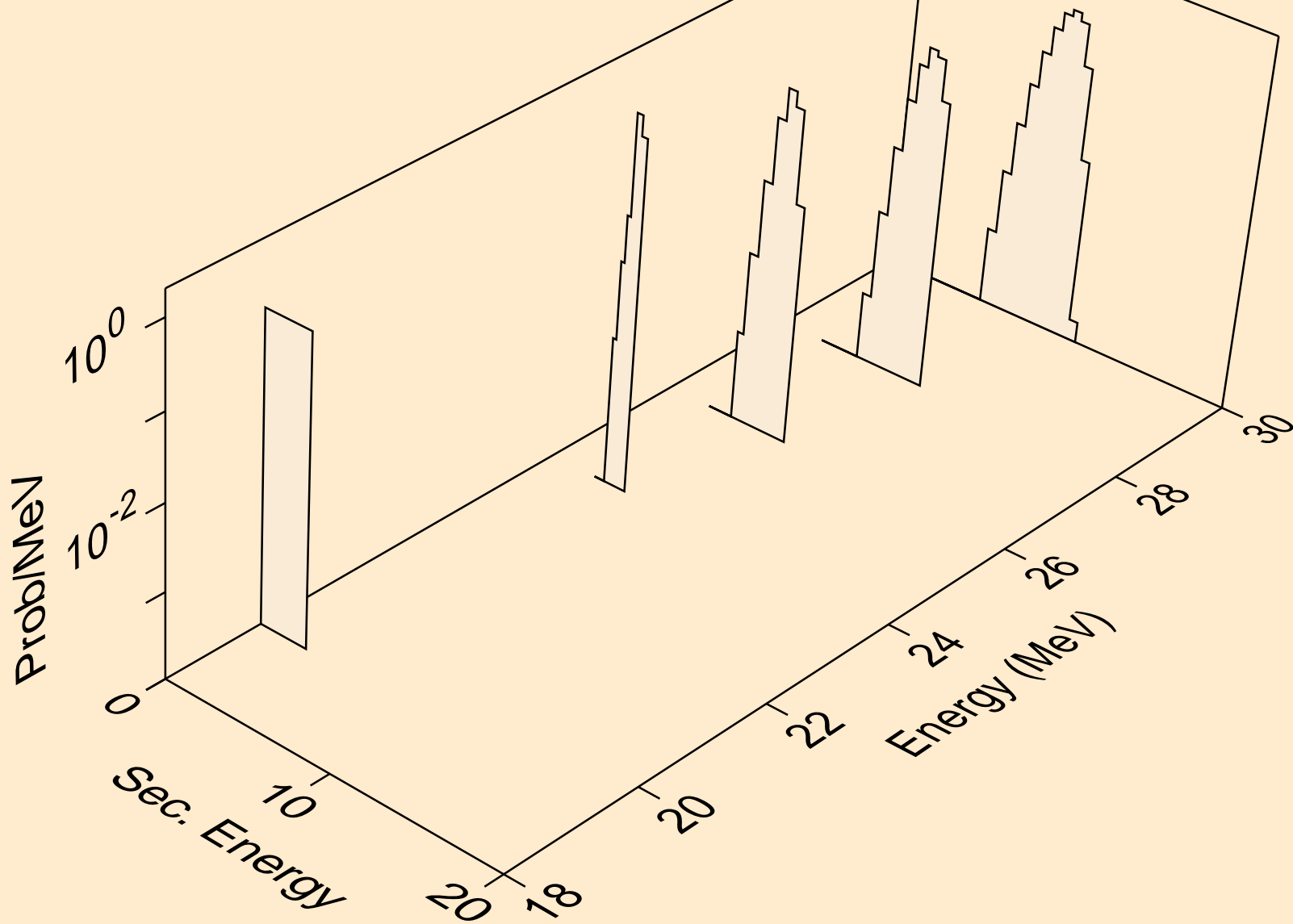
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alphas from (n,n\*)a



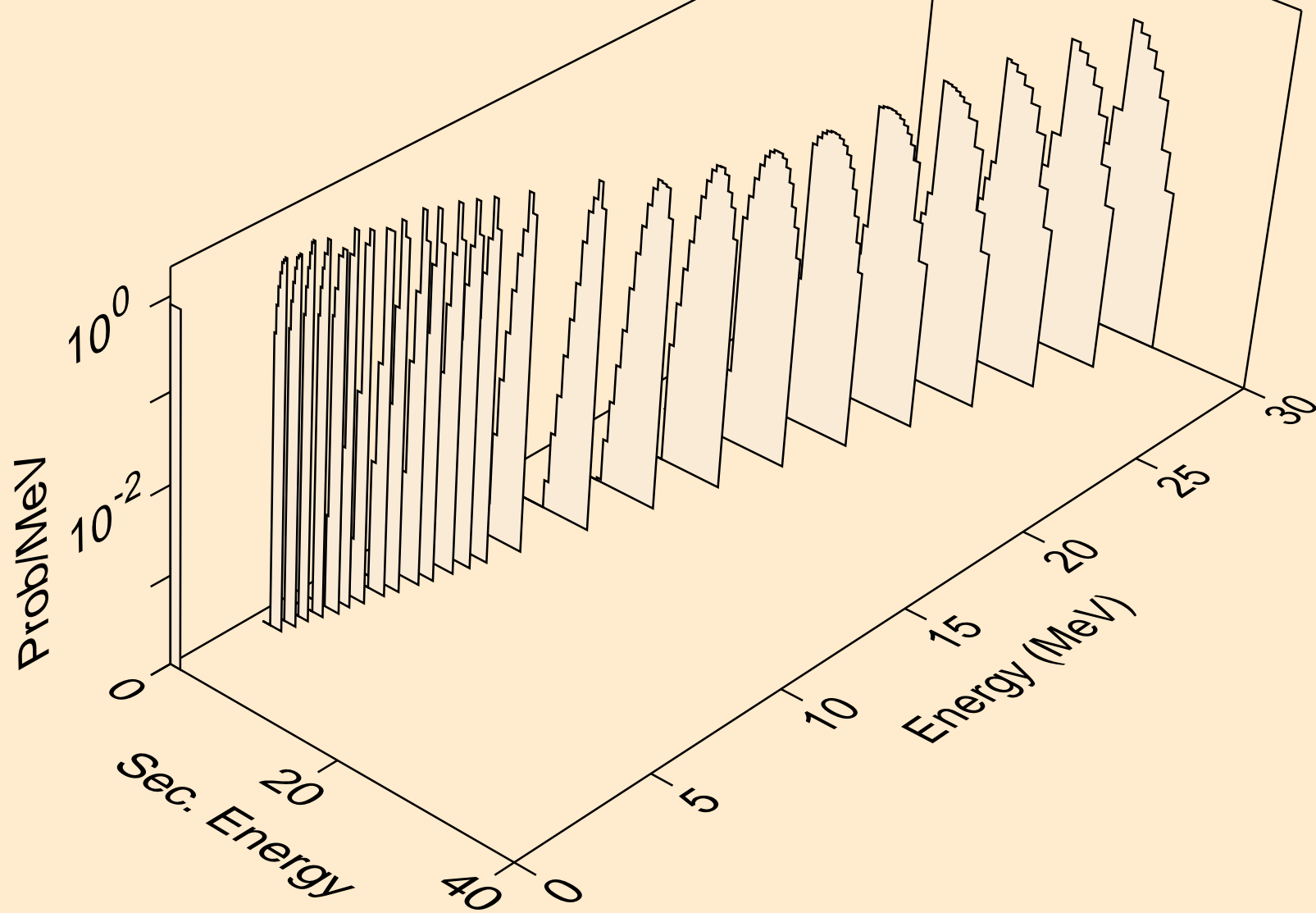
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alphas from (n,2n)a



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



IN119 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)

