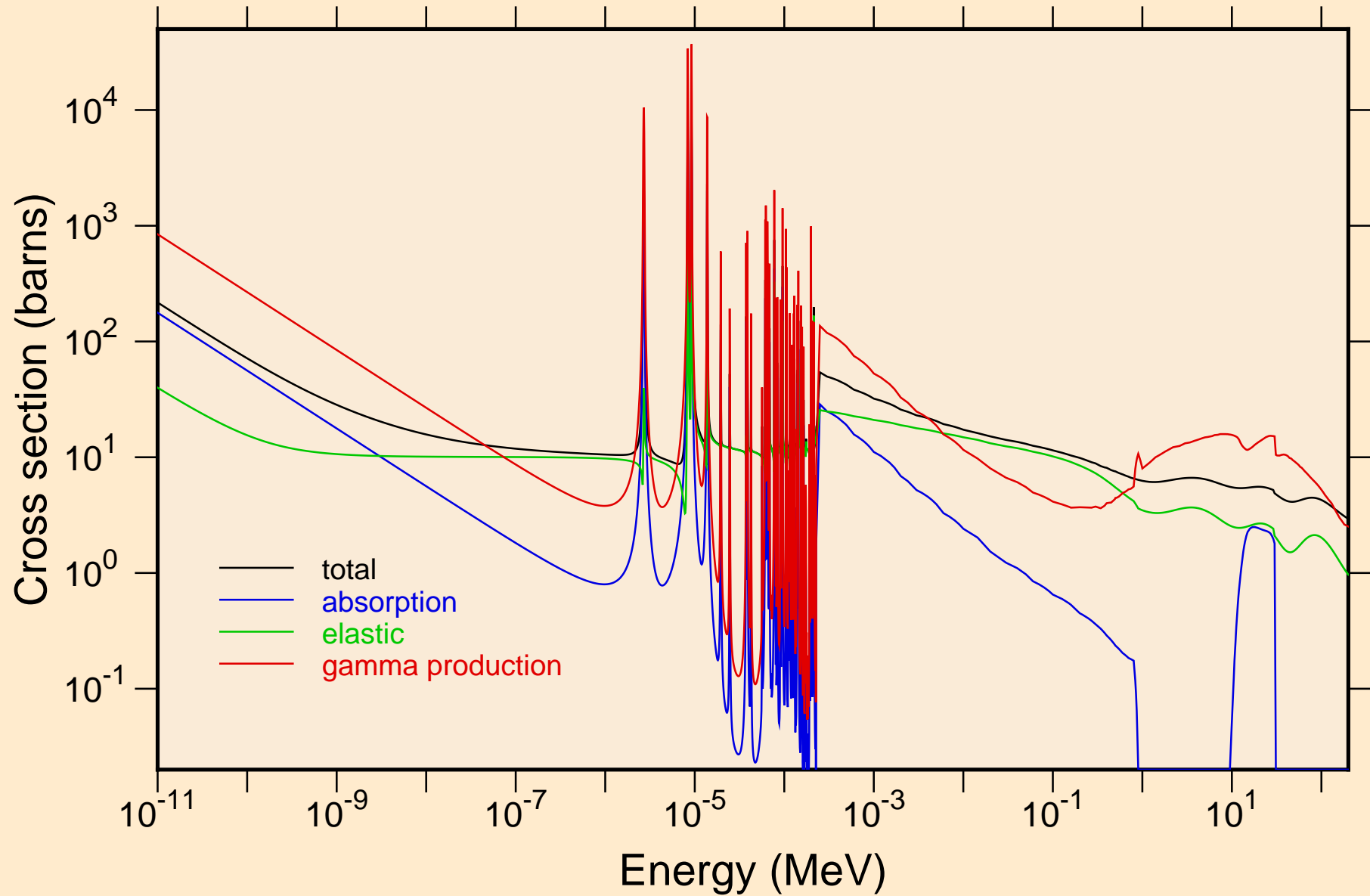
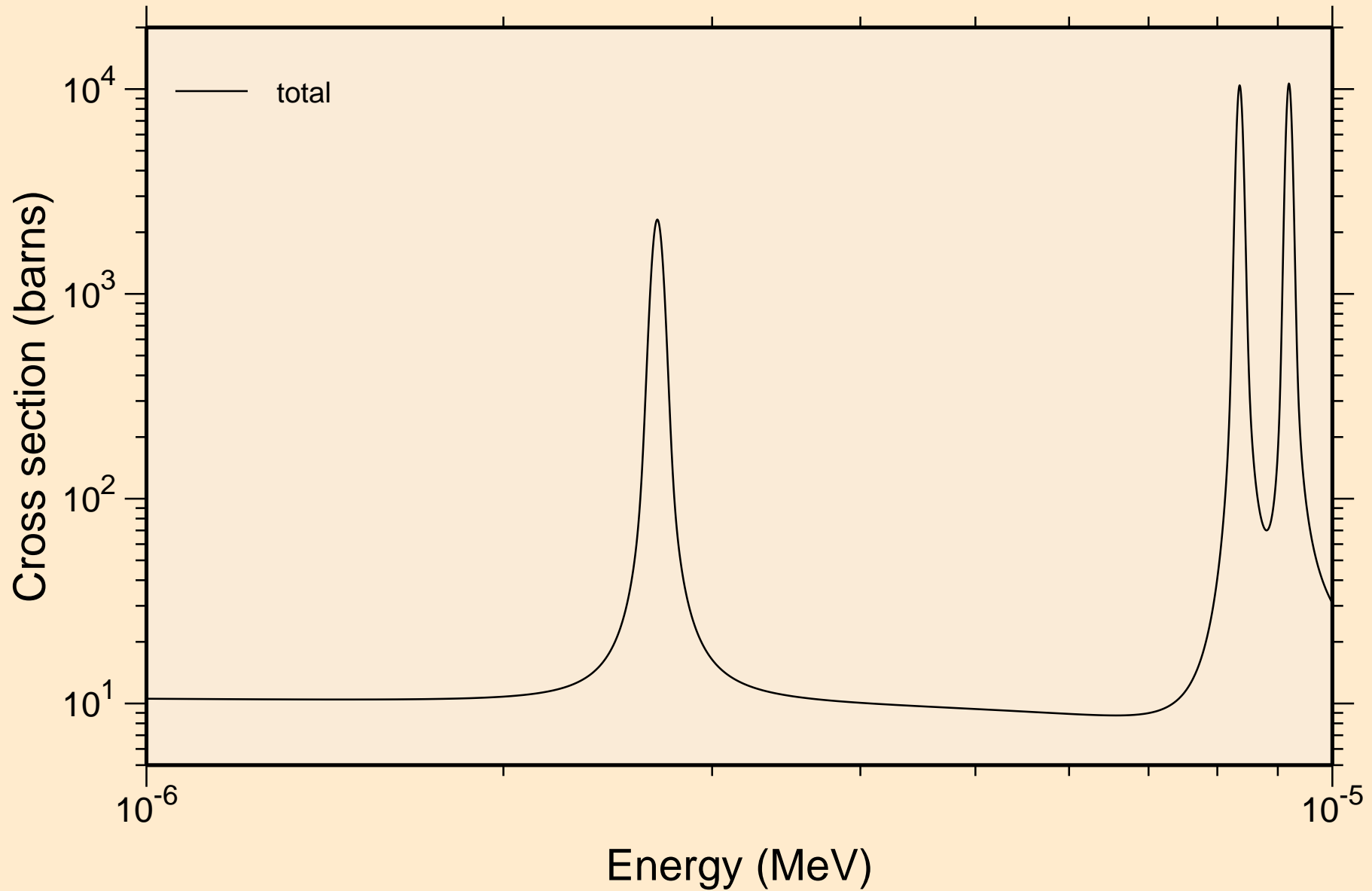


# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

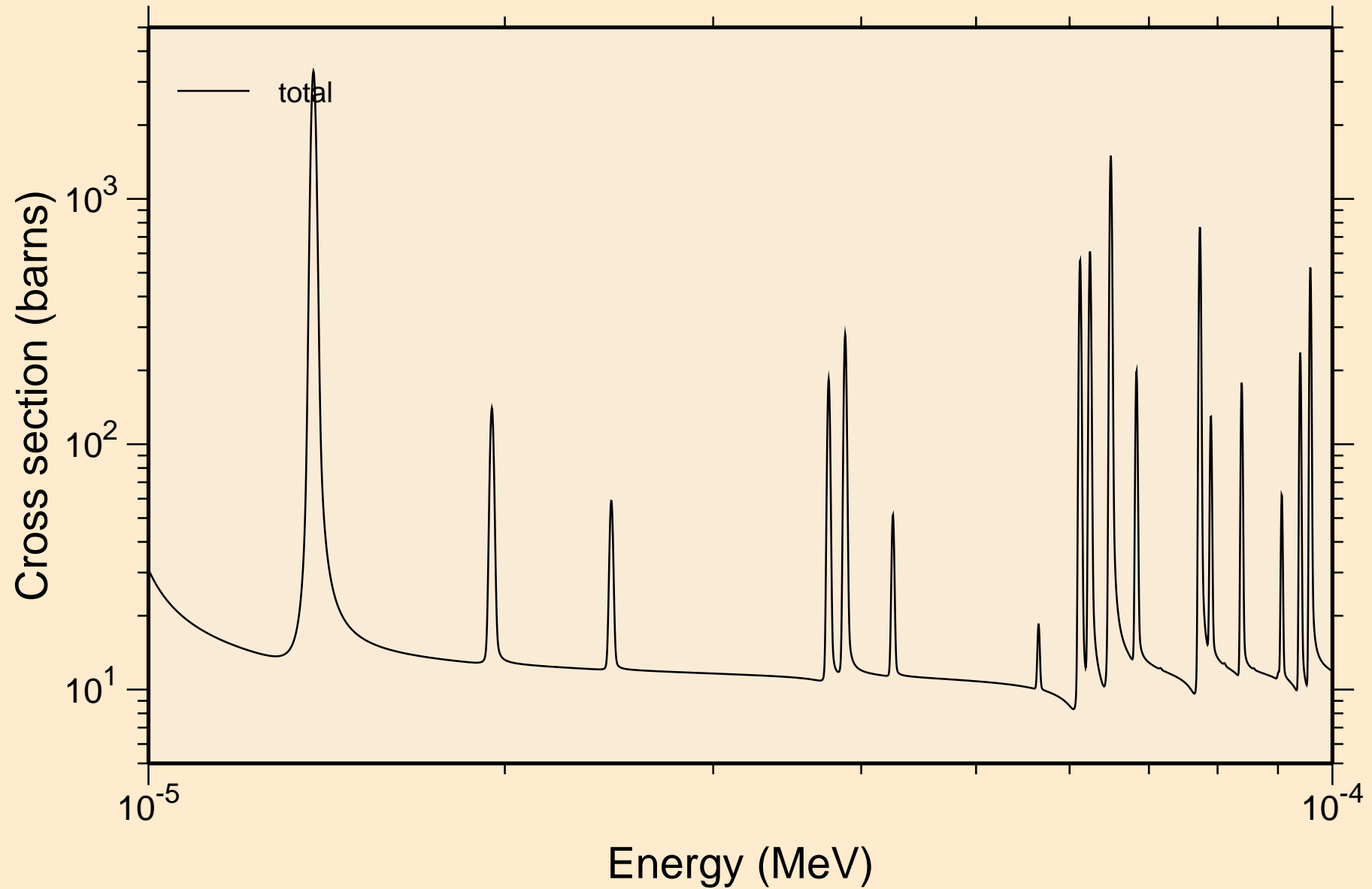
## Principal cross sections



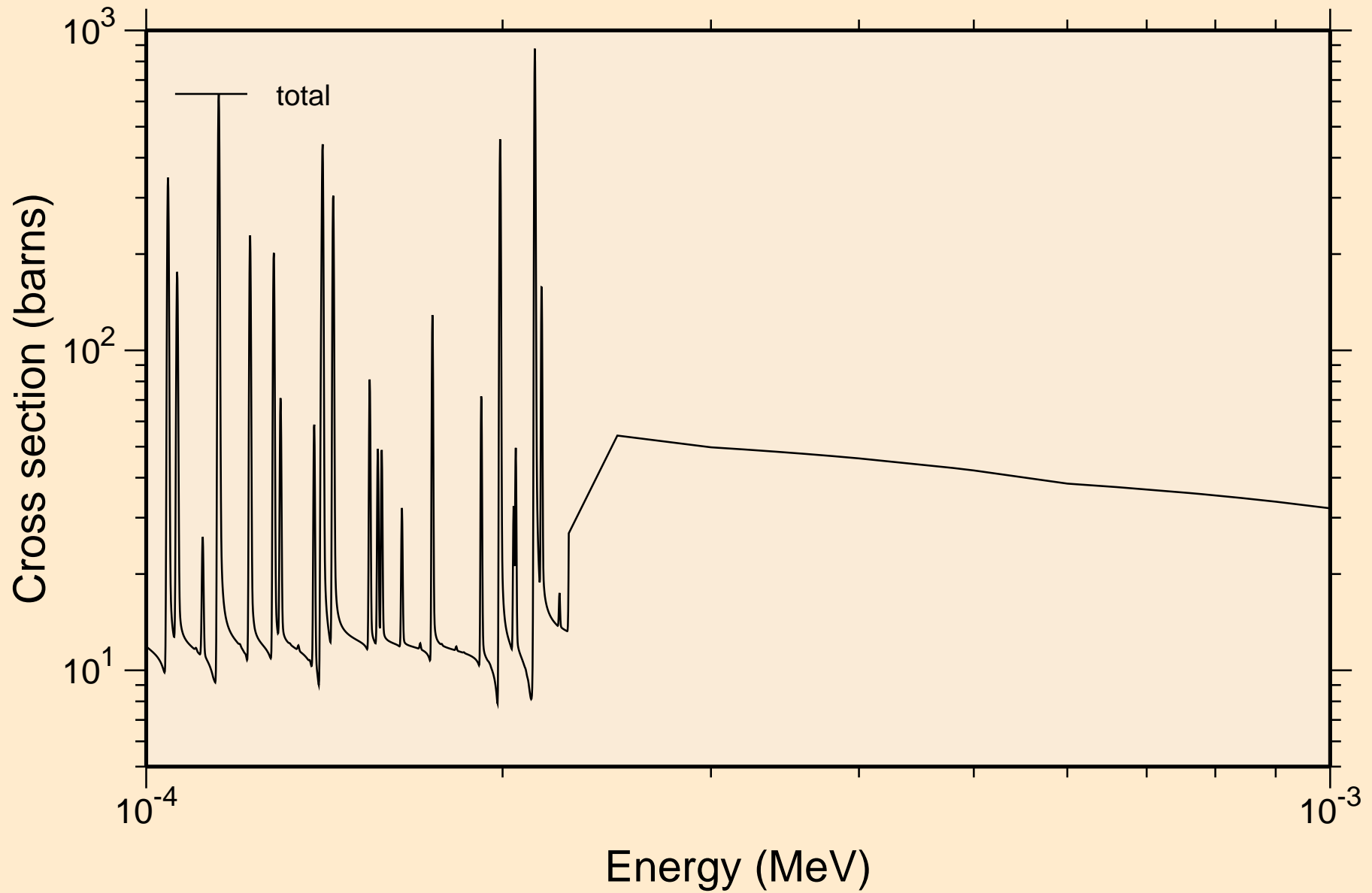
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



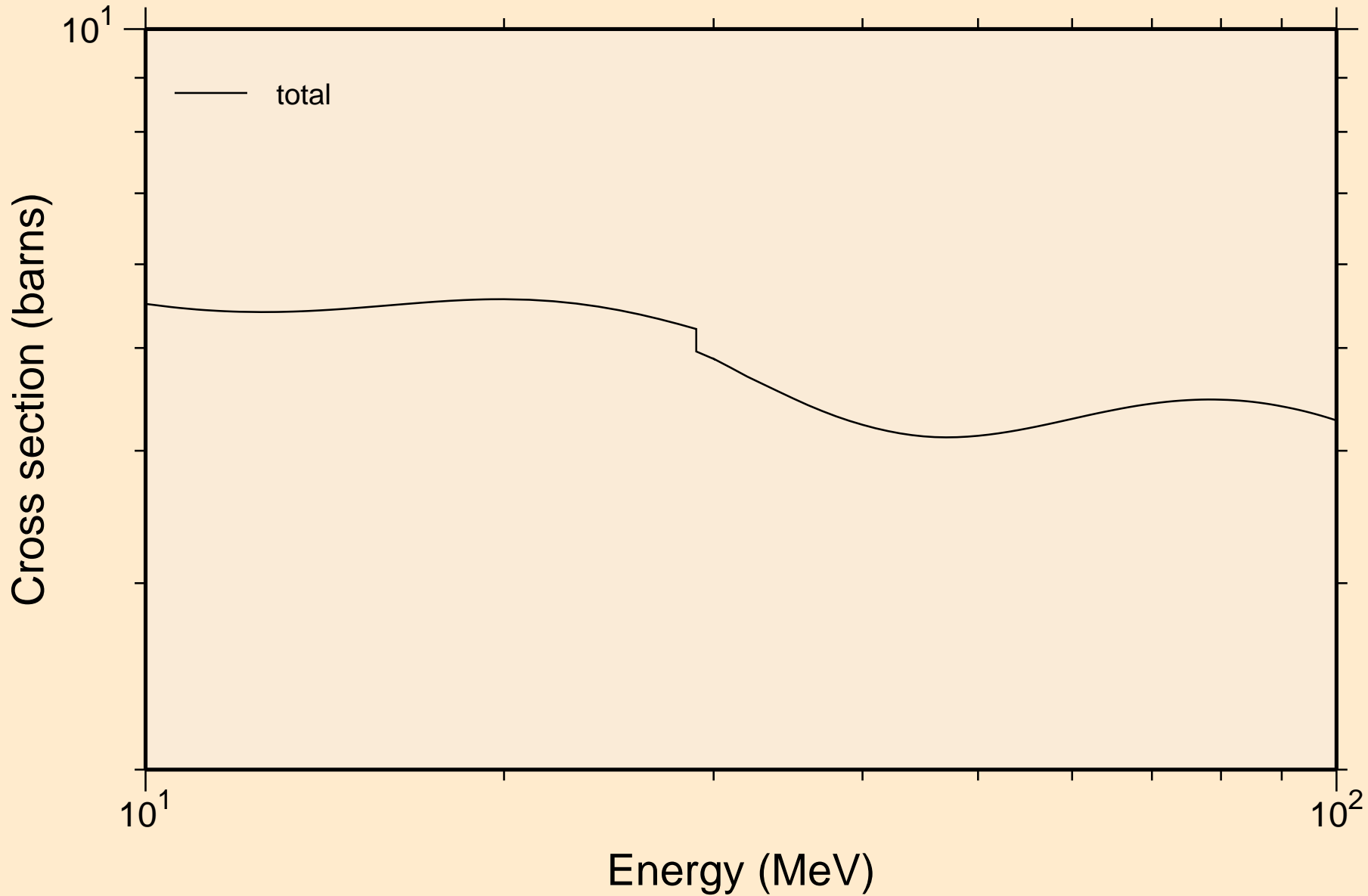
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



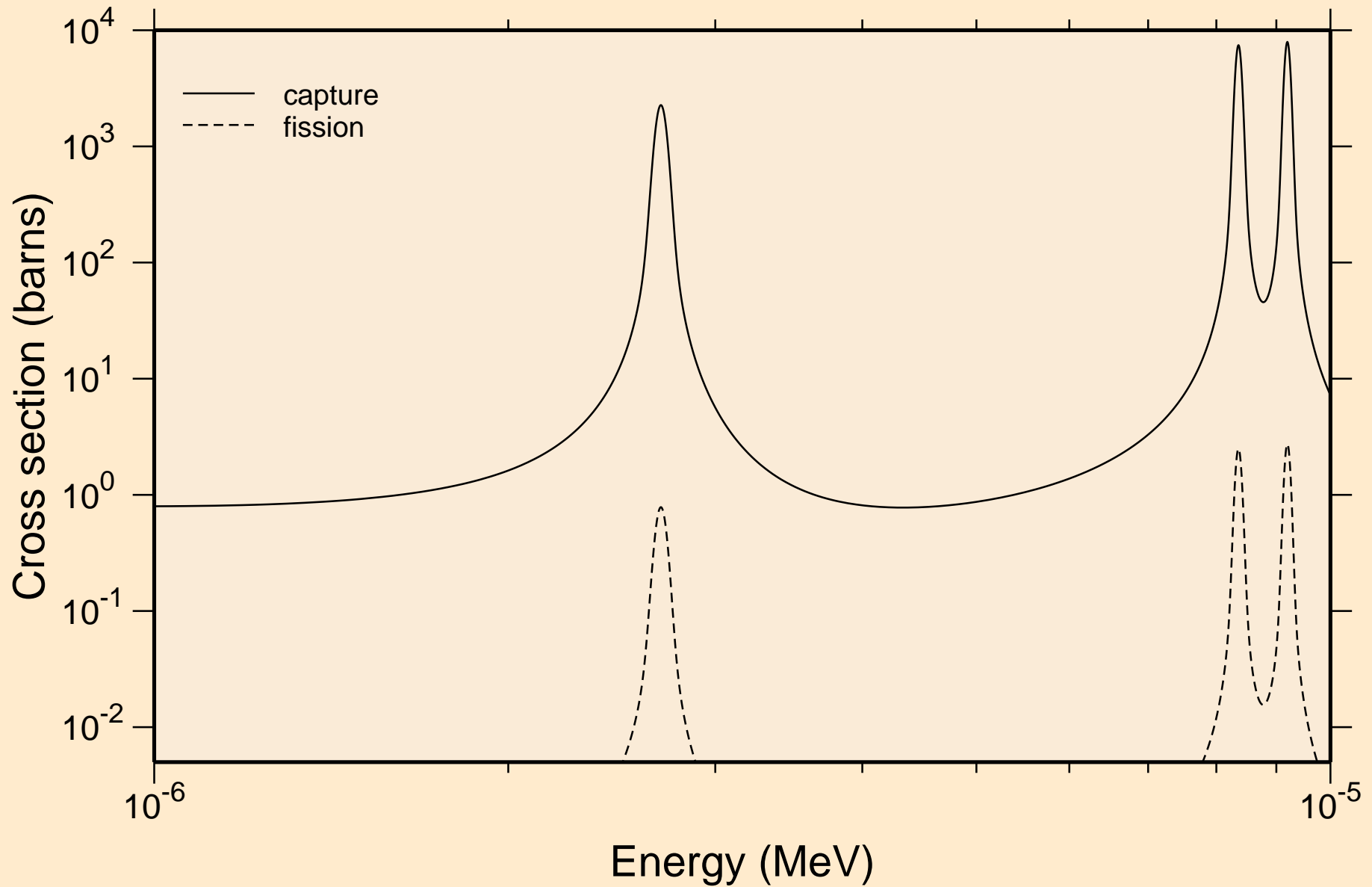
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



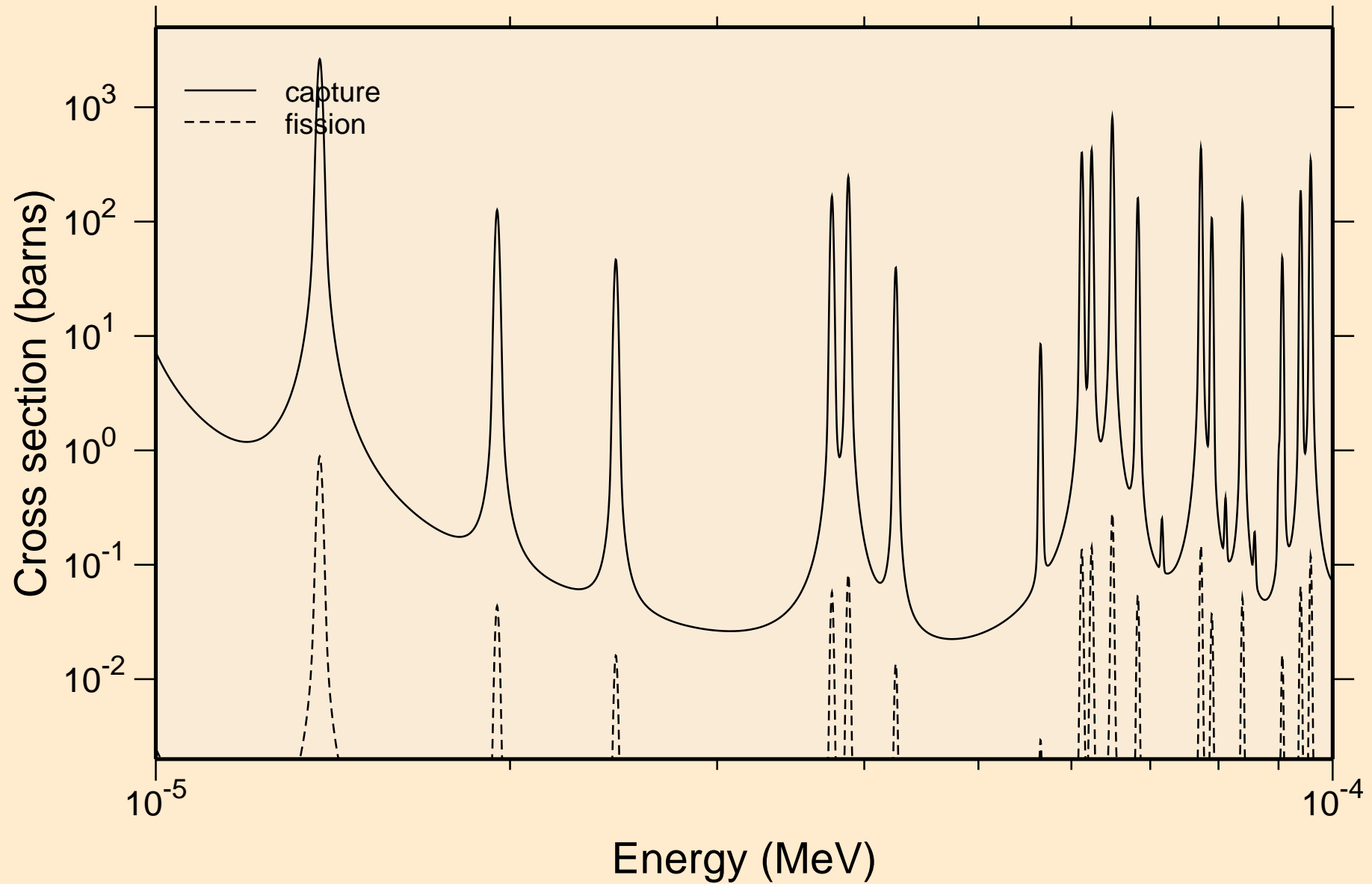
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



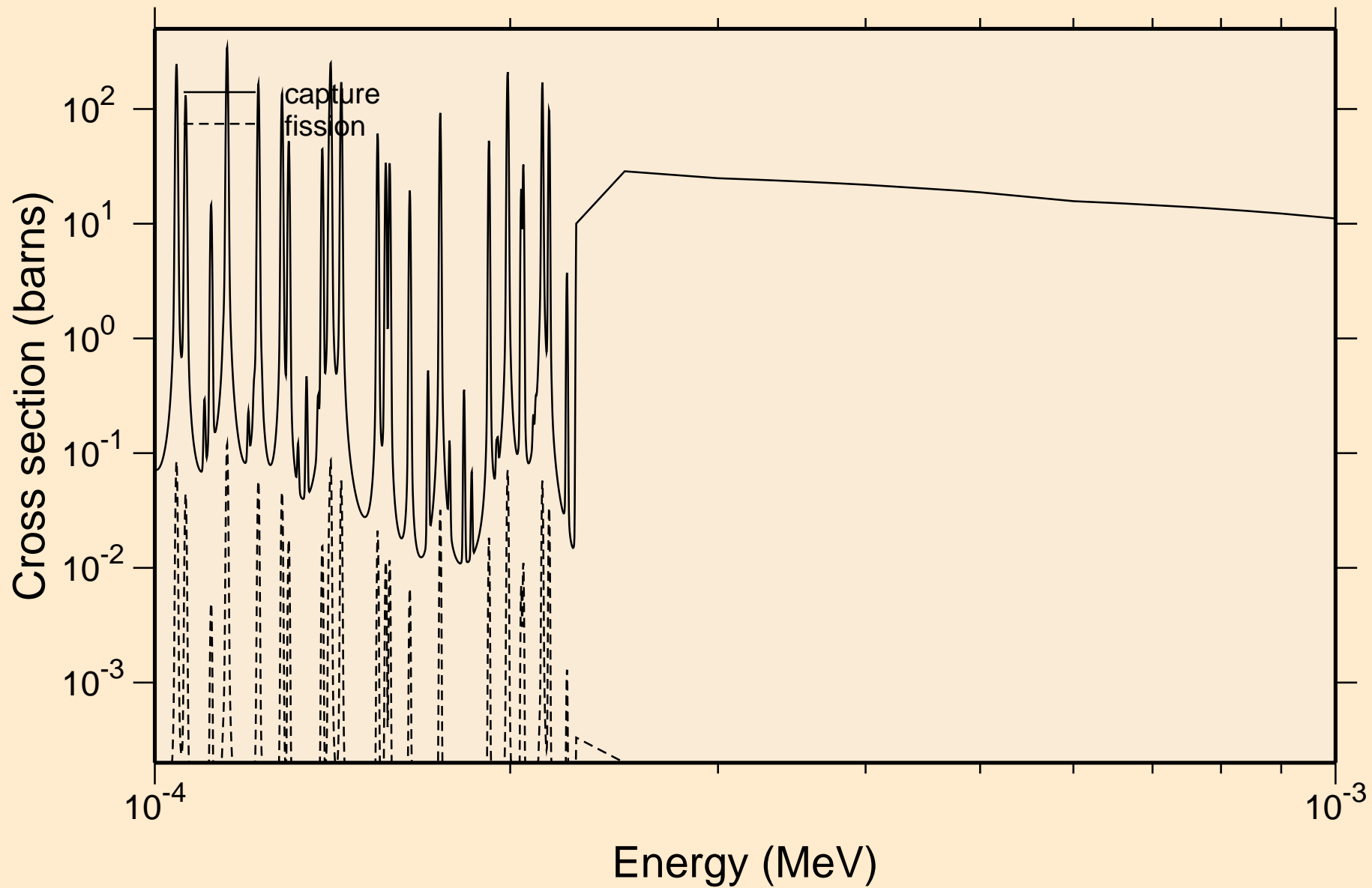
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

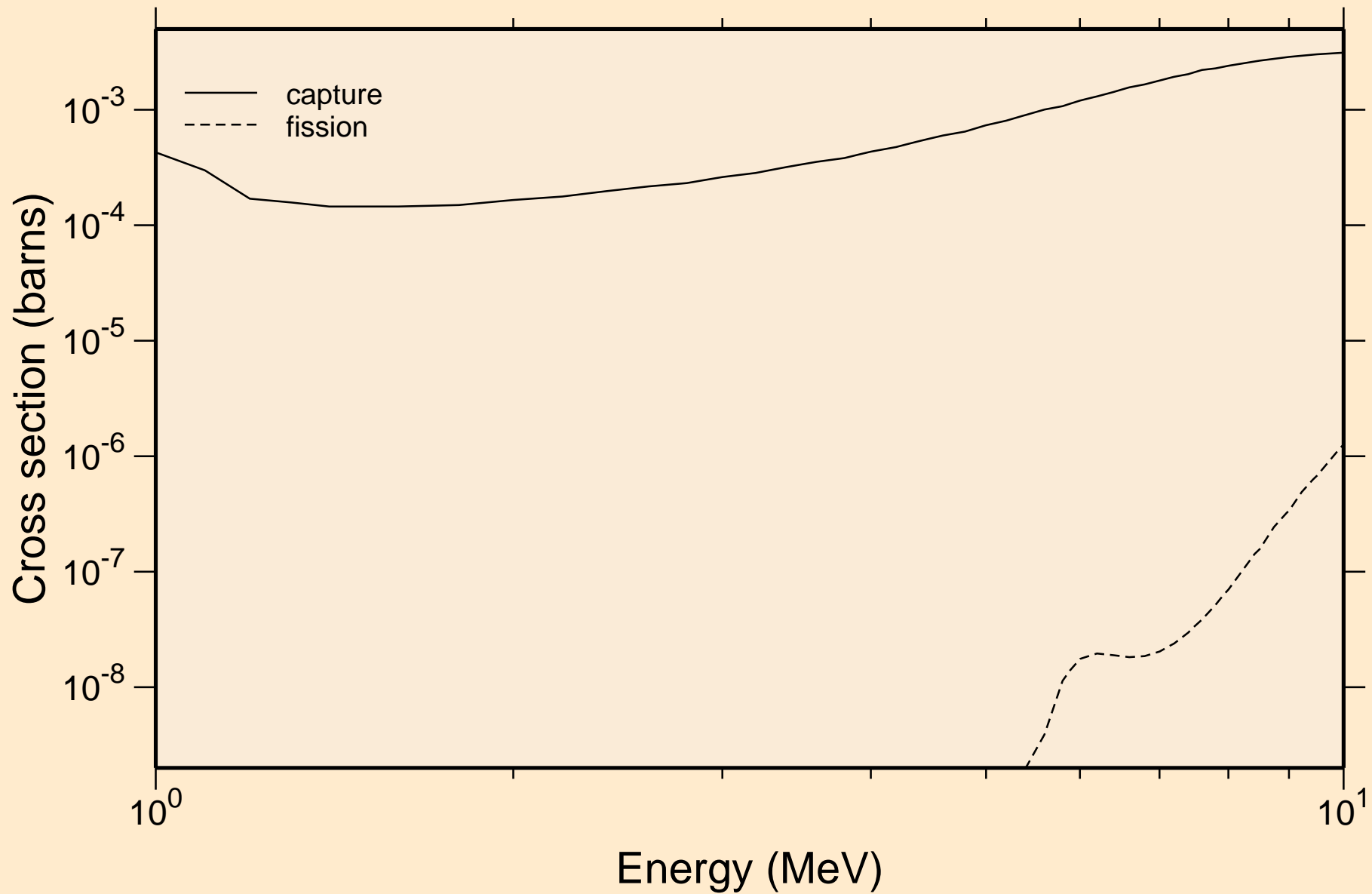


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

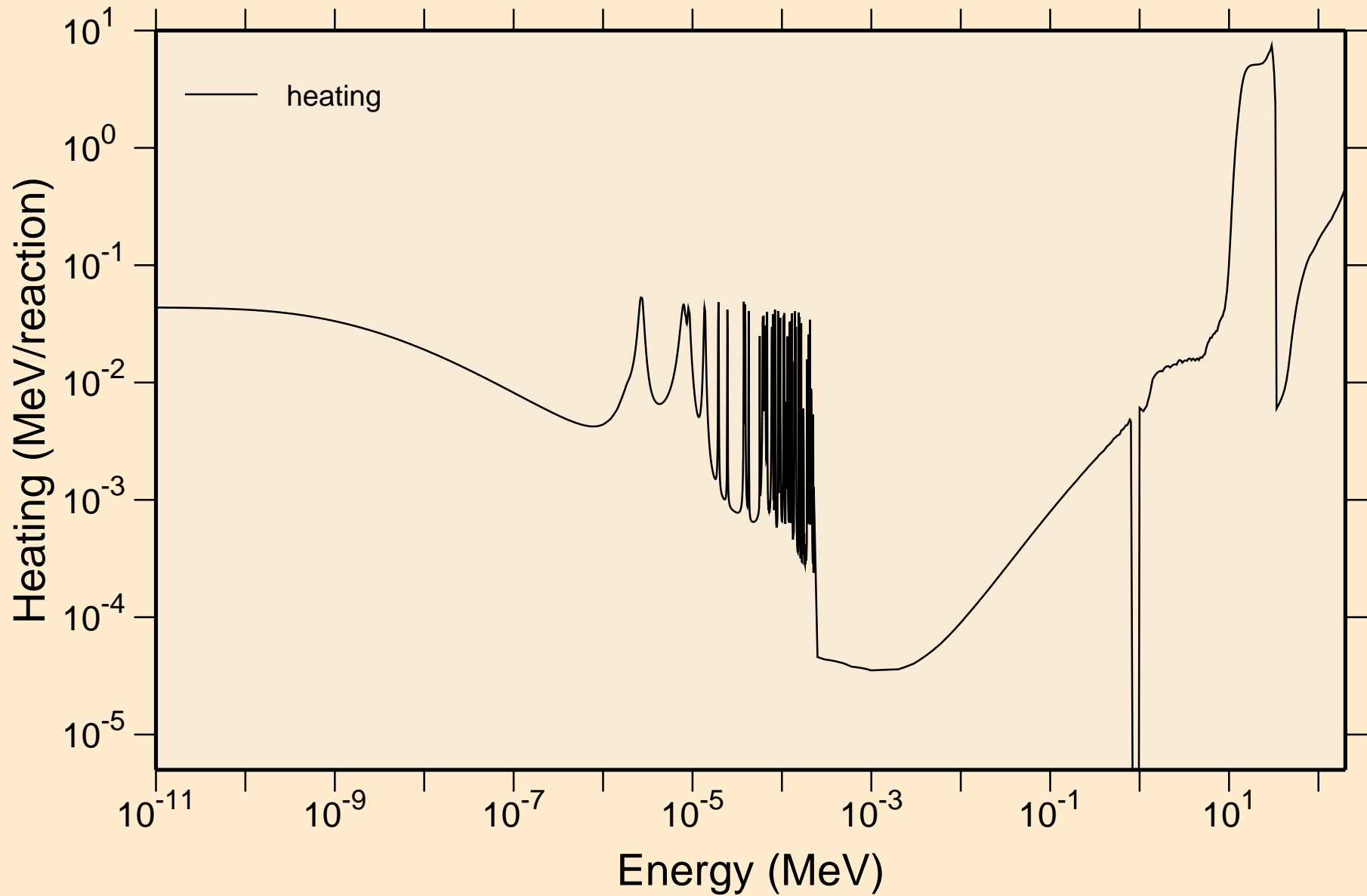




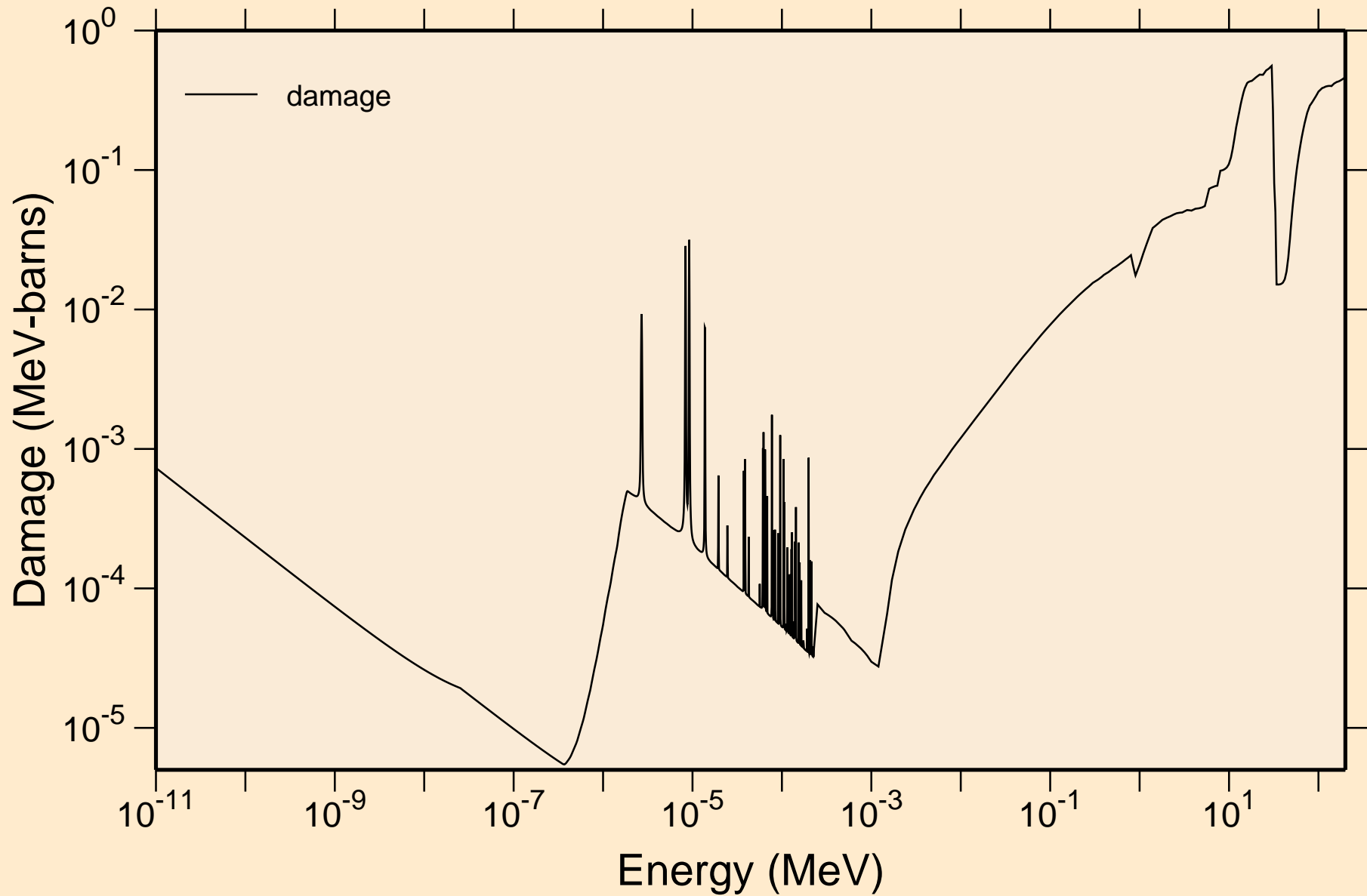
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

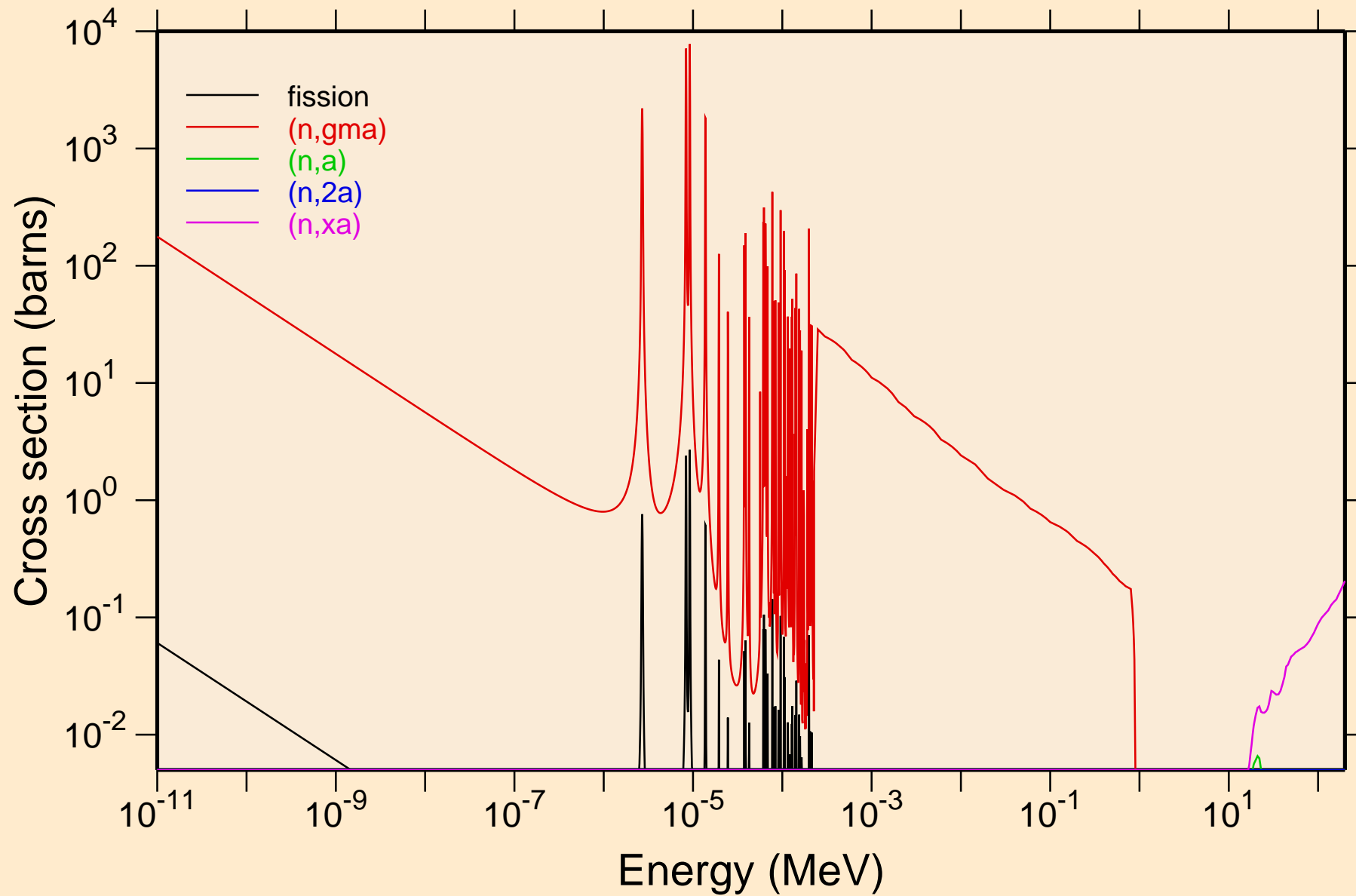


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



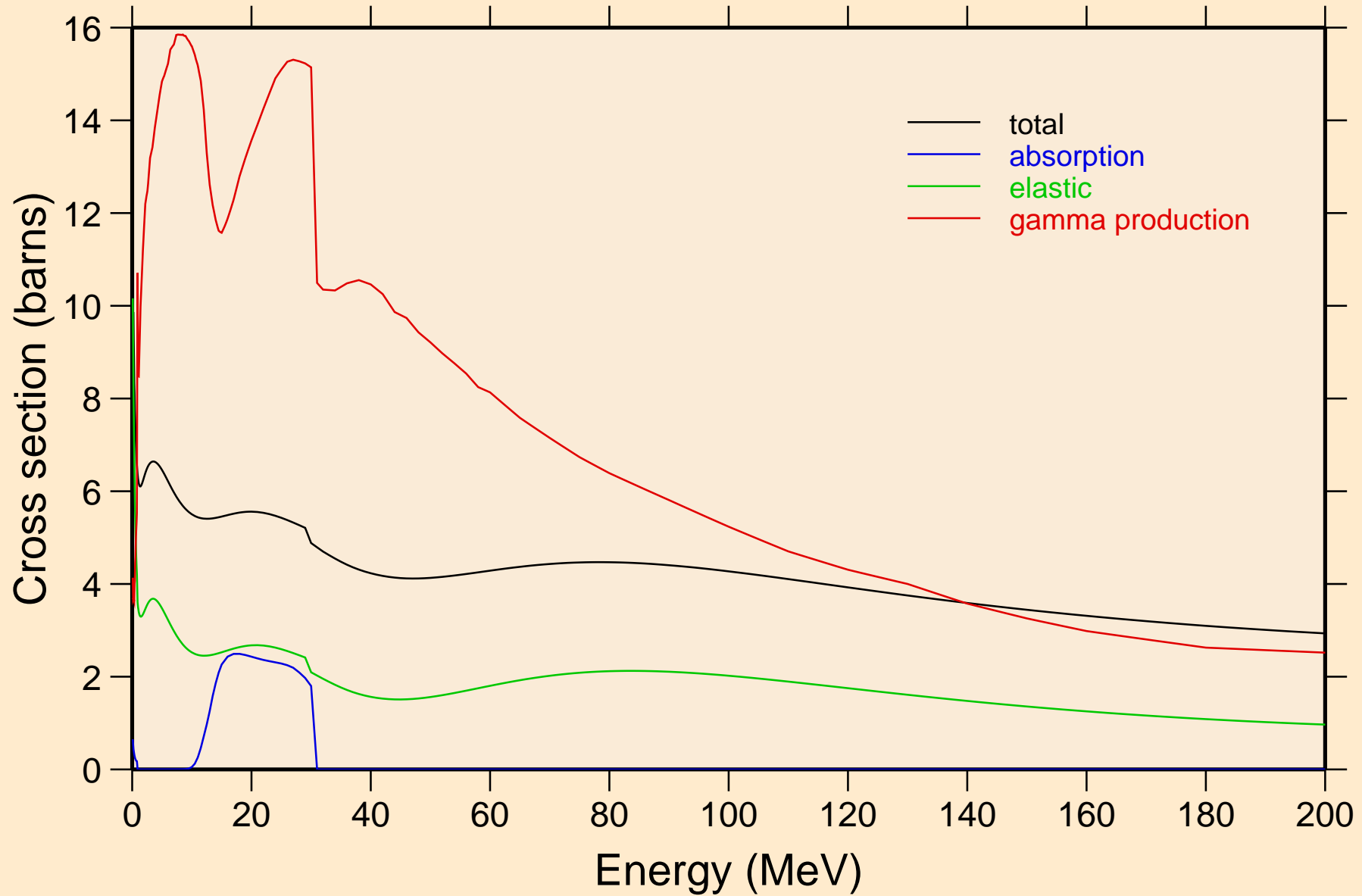
# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

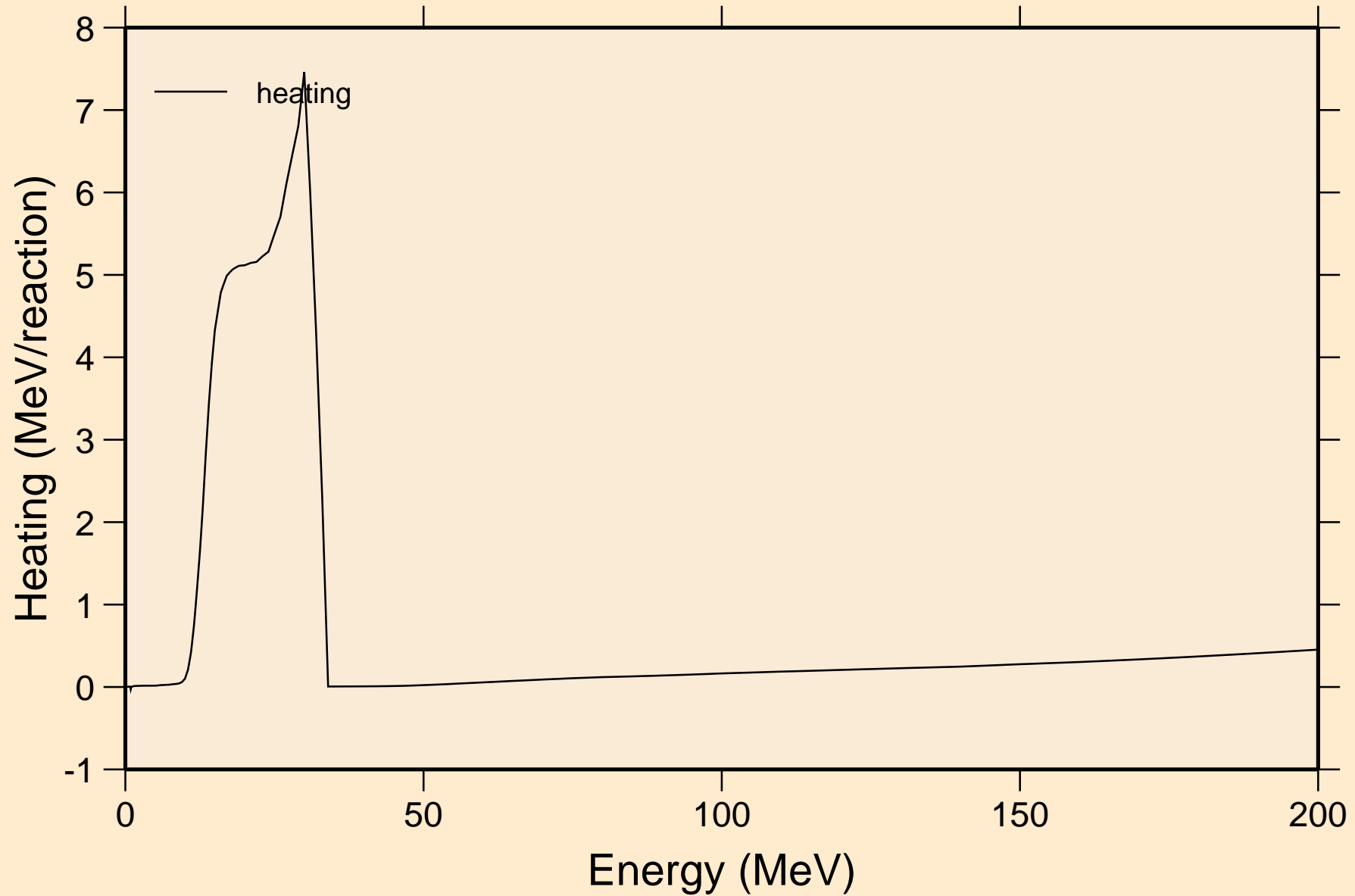


# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

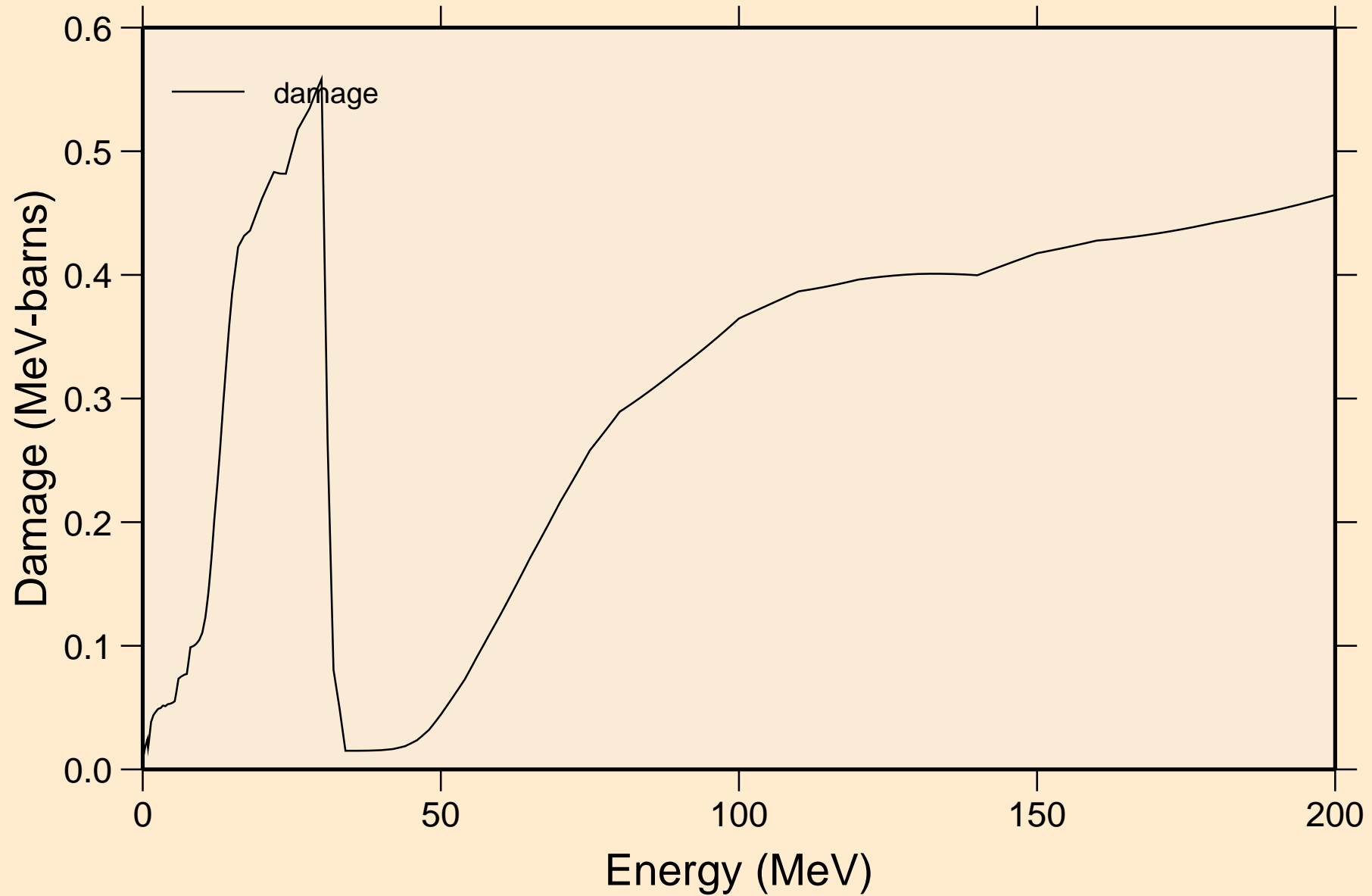
## Principal cross sections



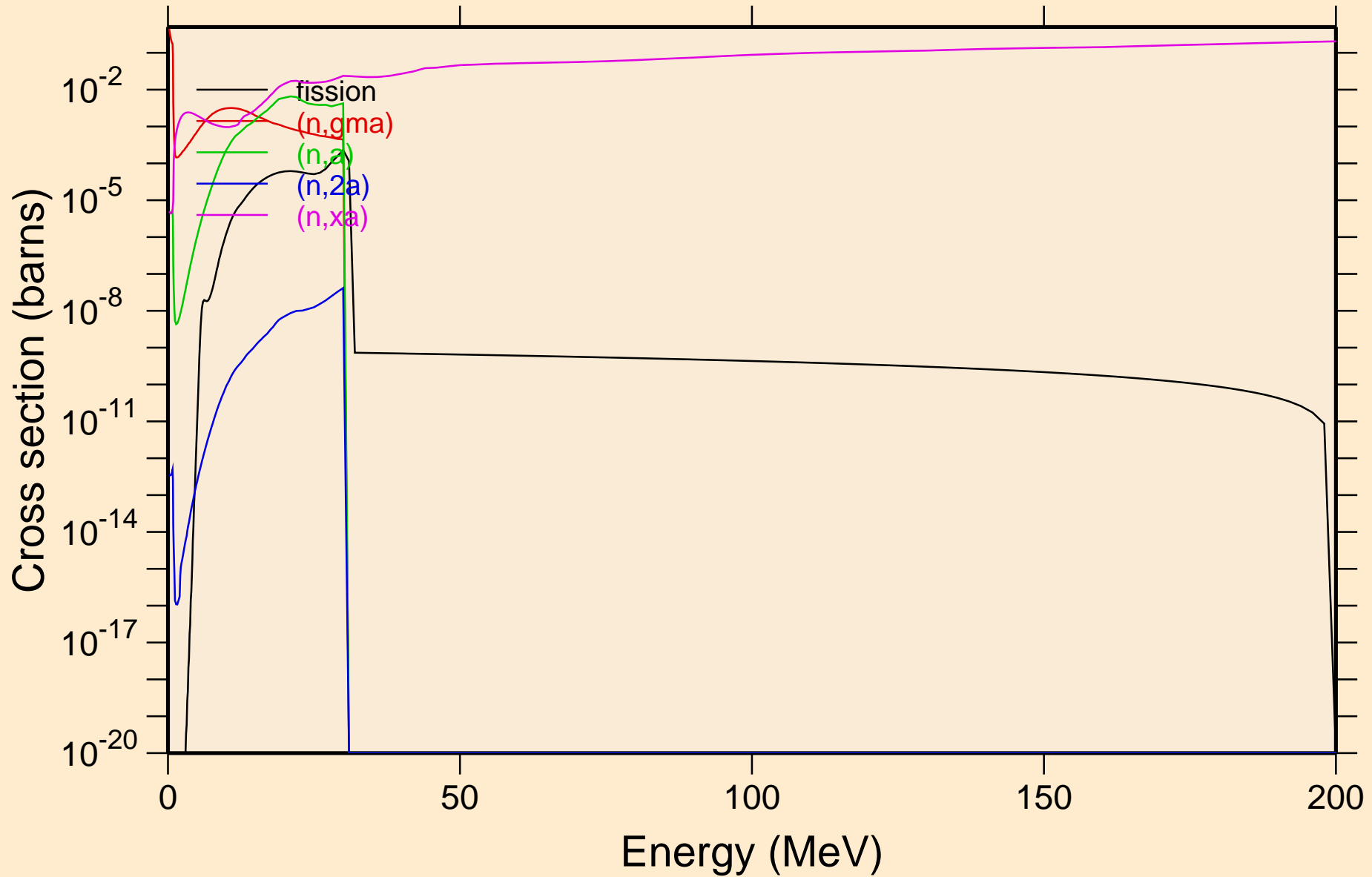
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

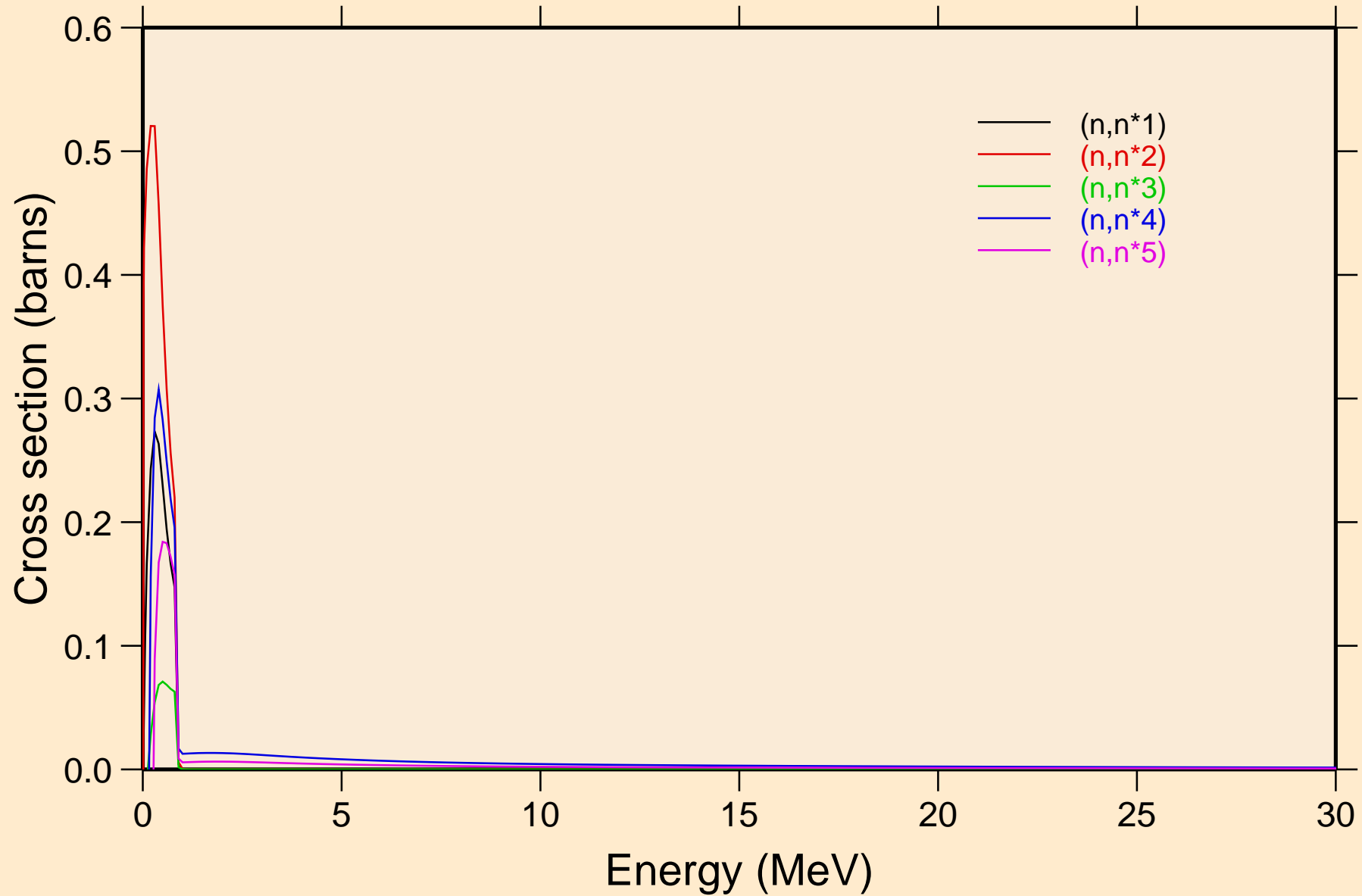


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

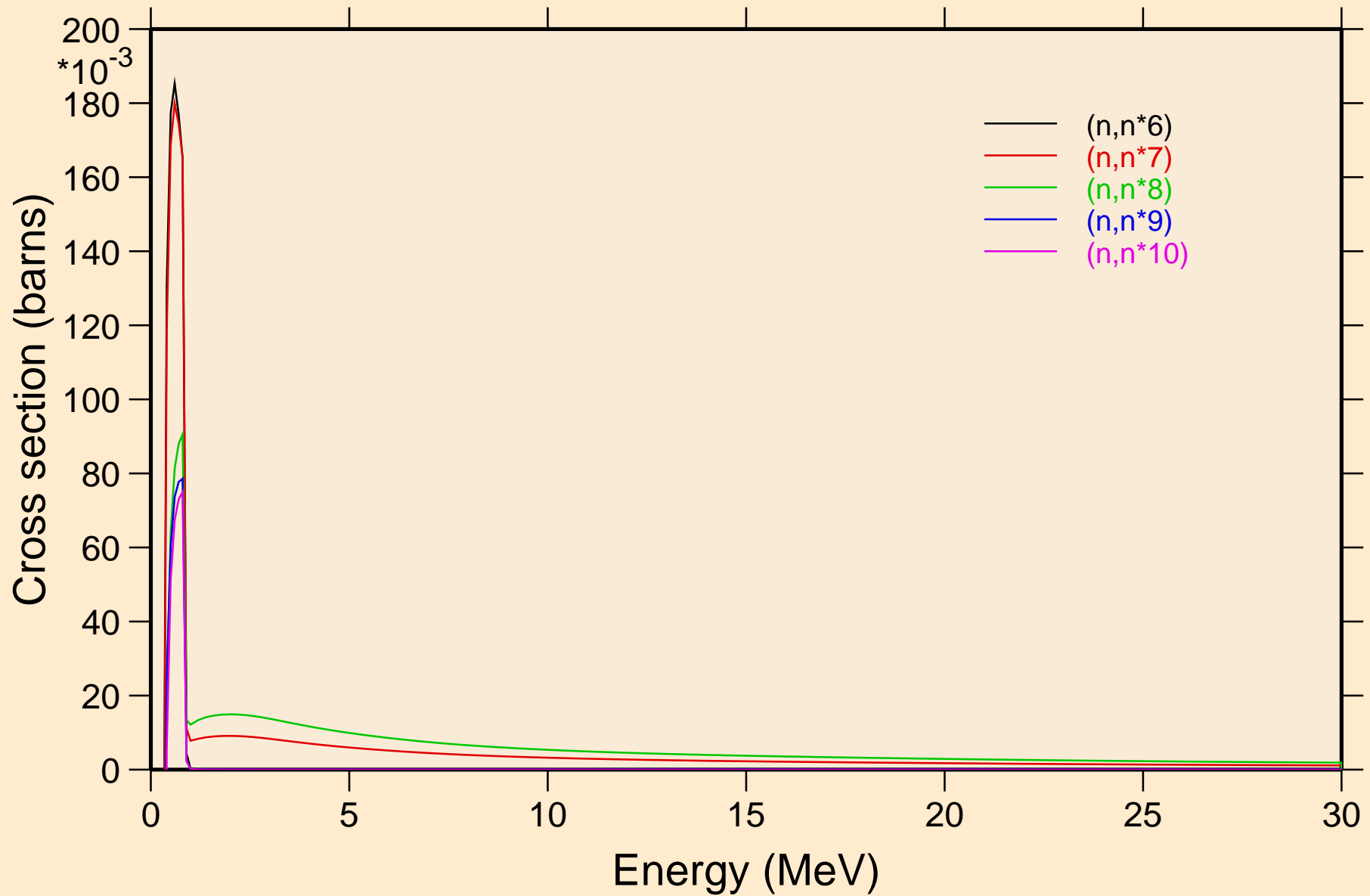




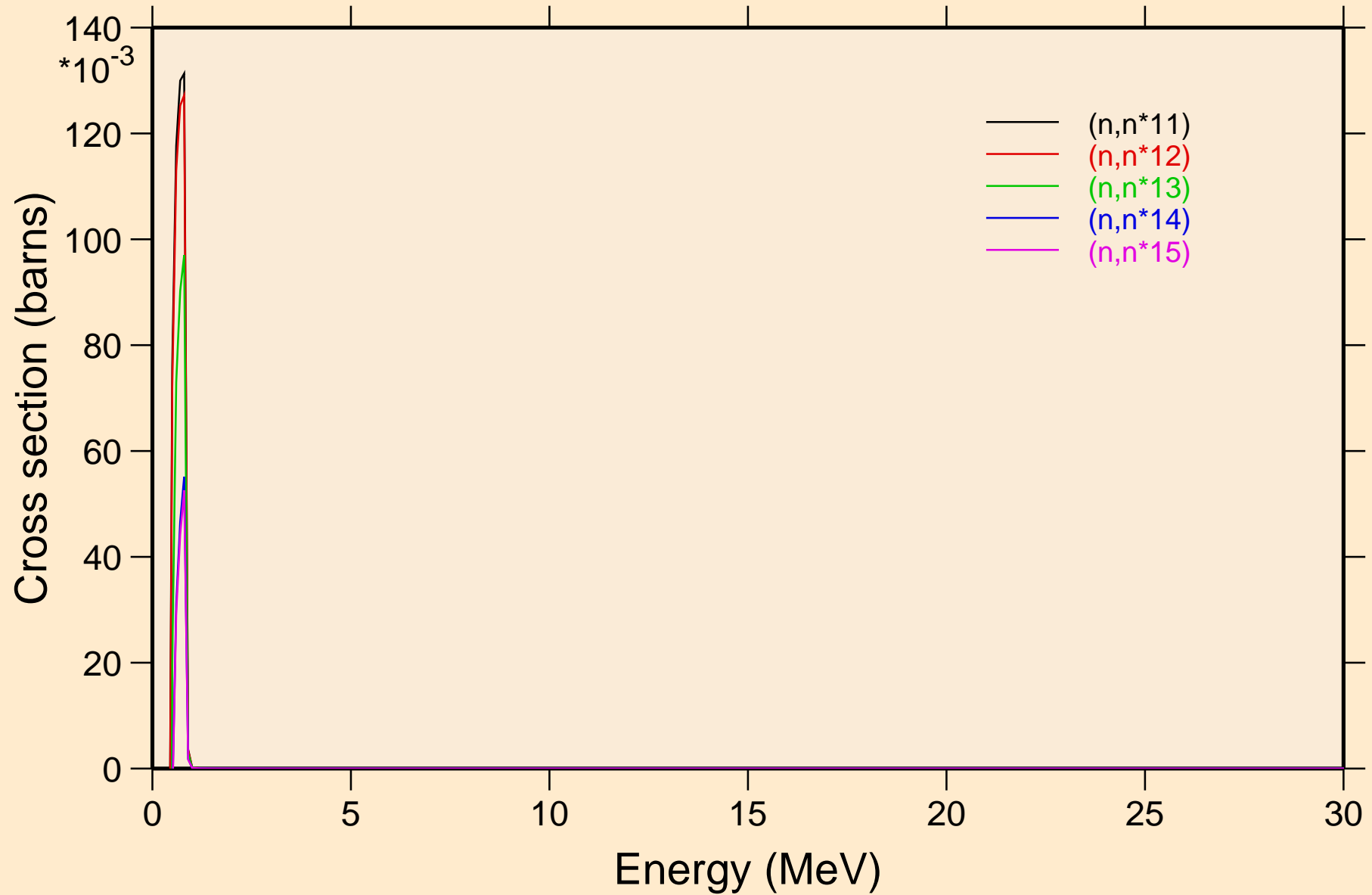
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



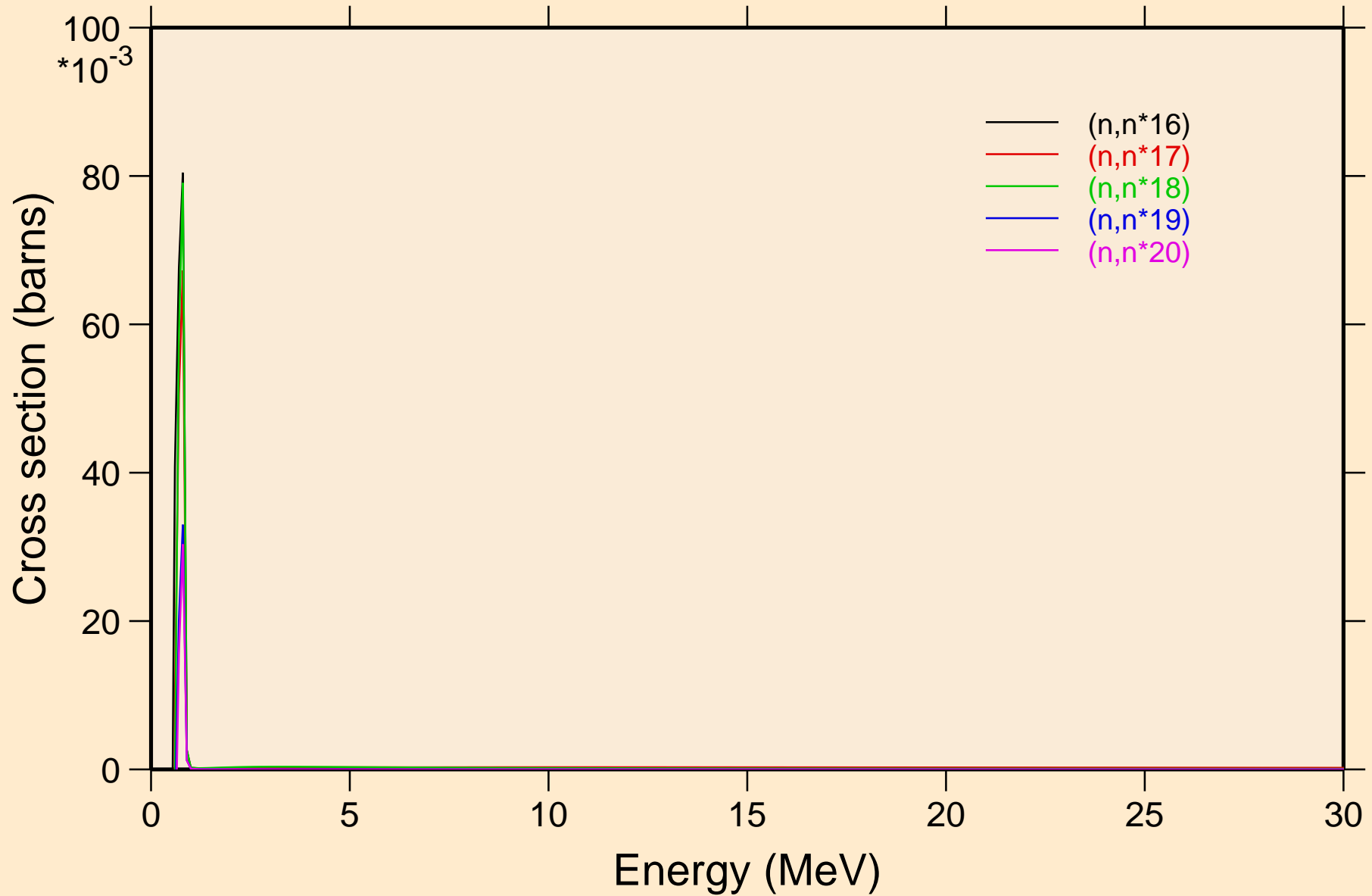
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



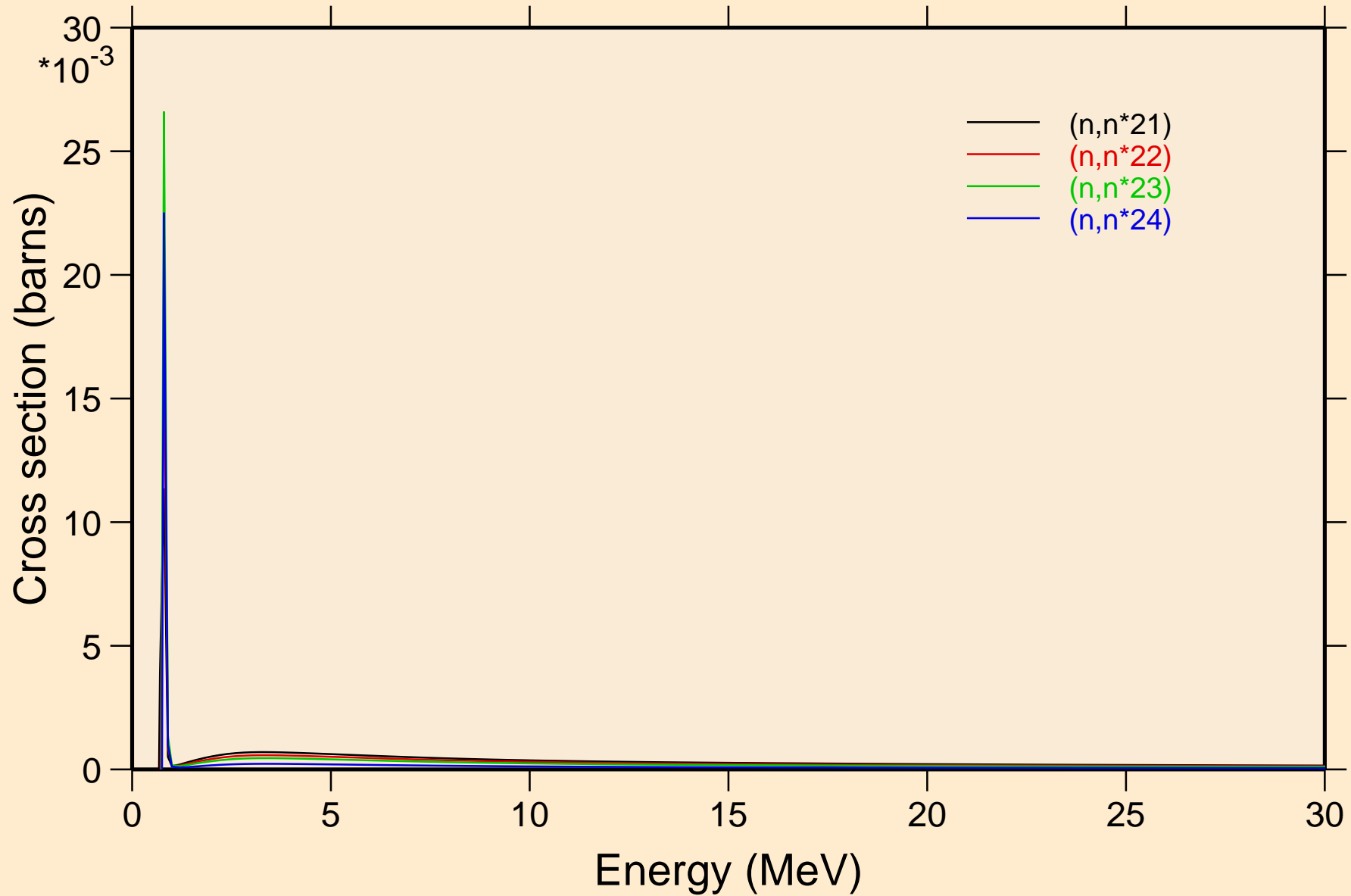
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



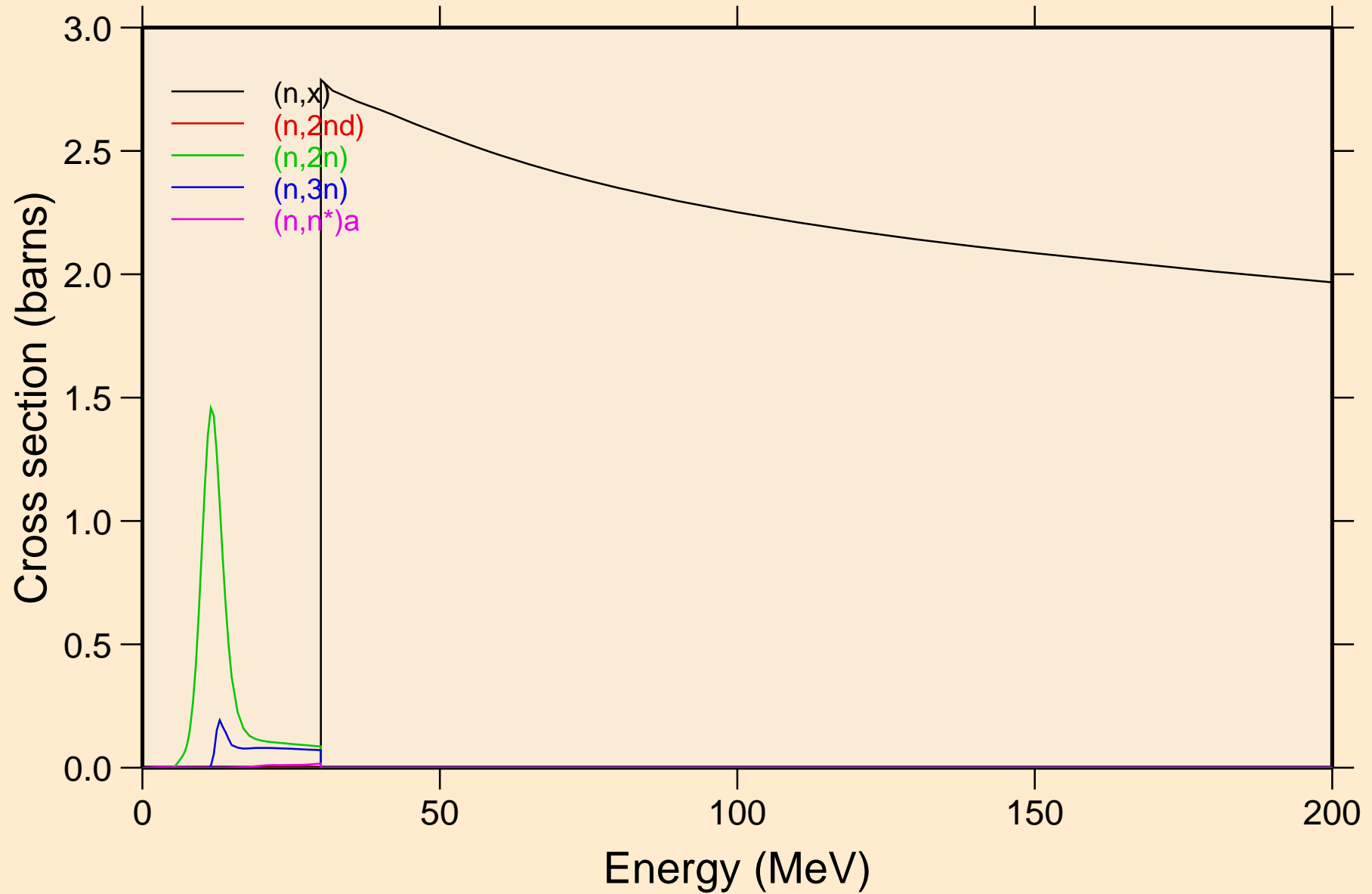
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

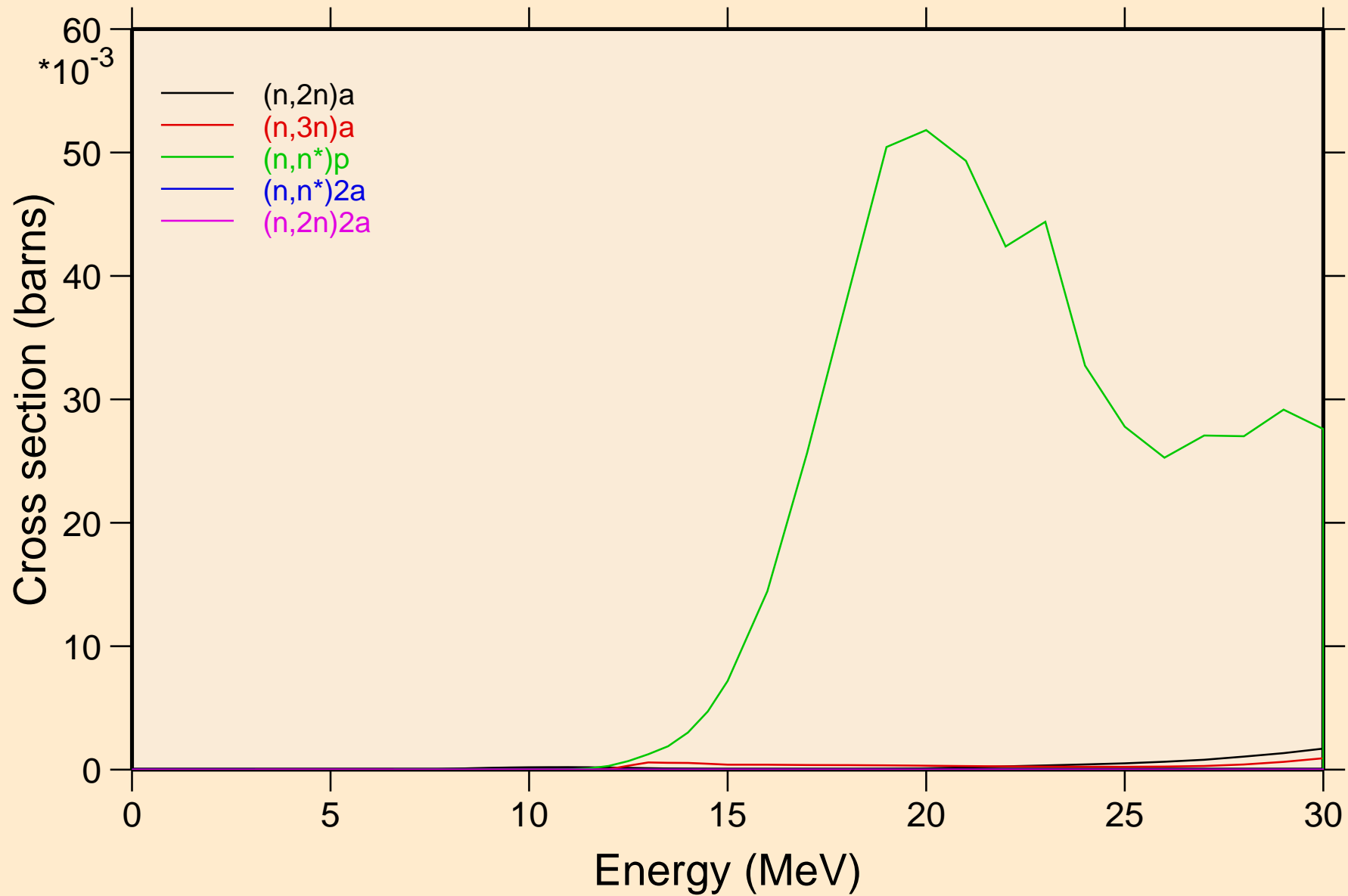


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

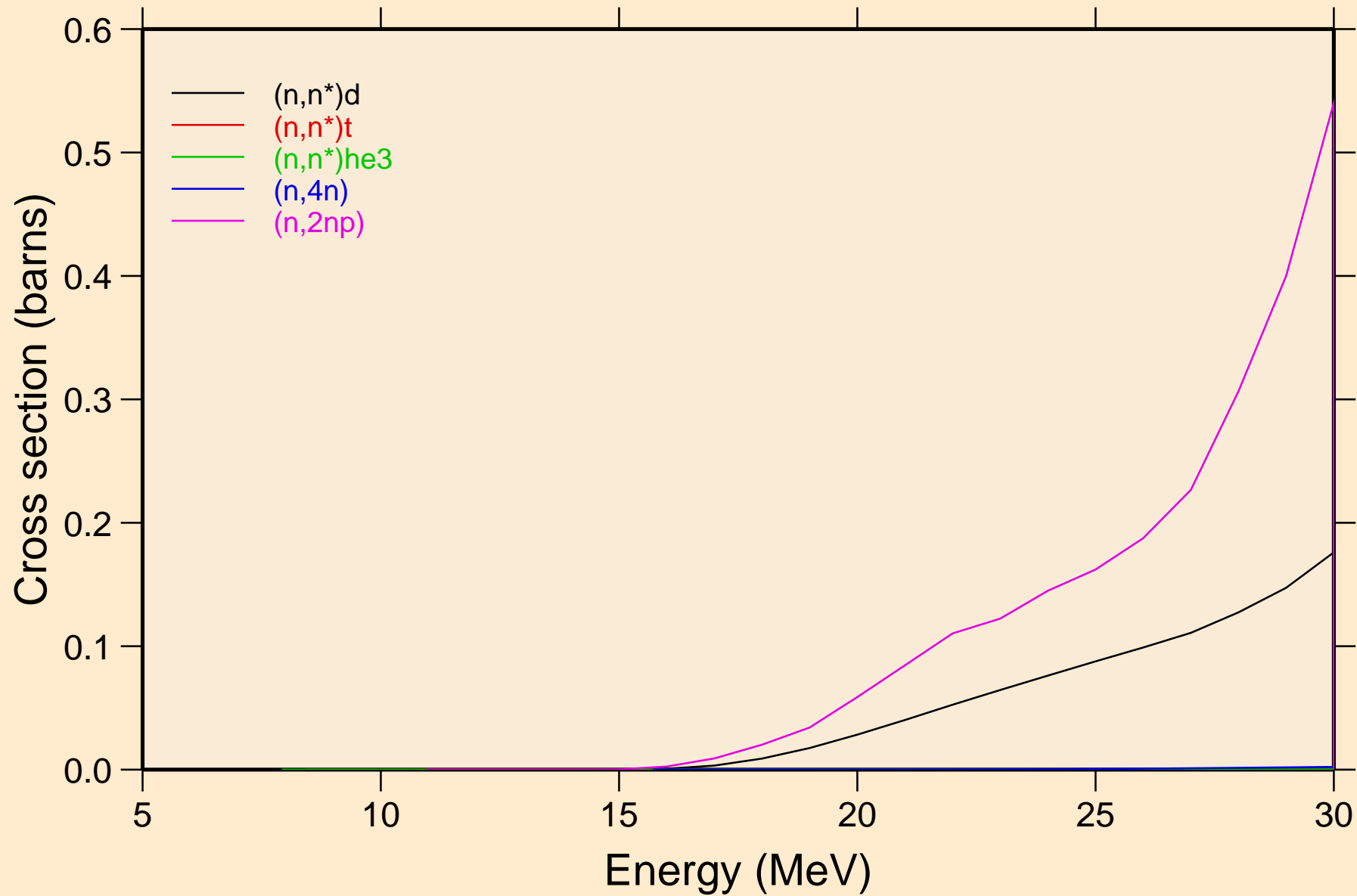


# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

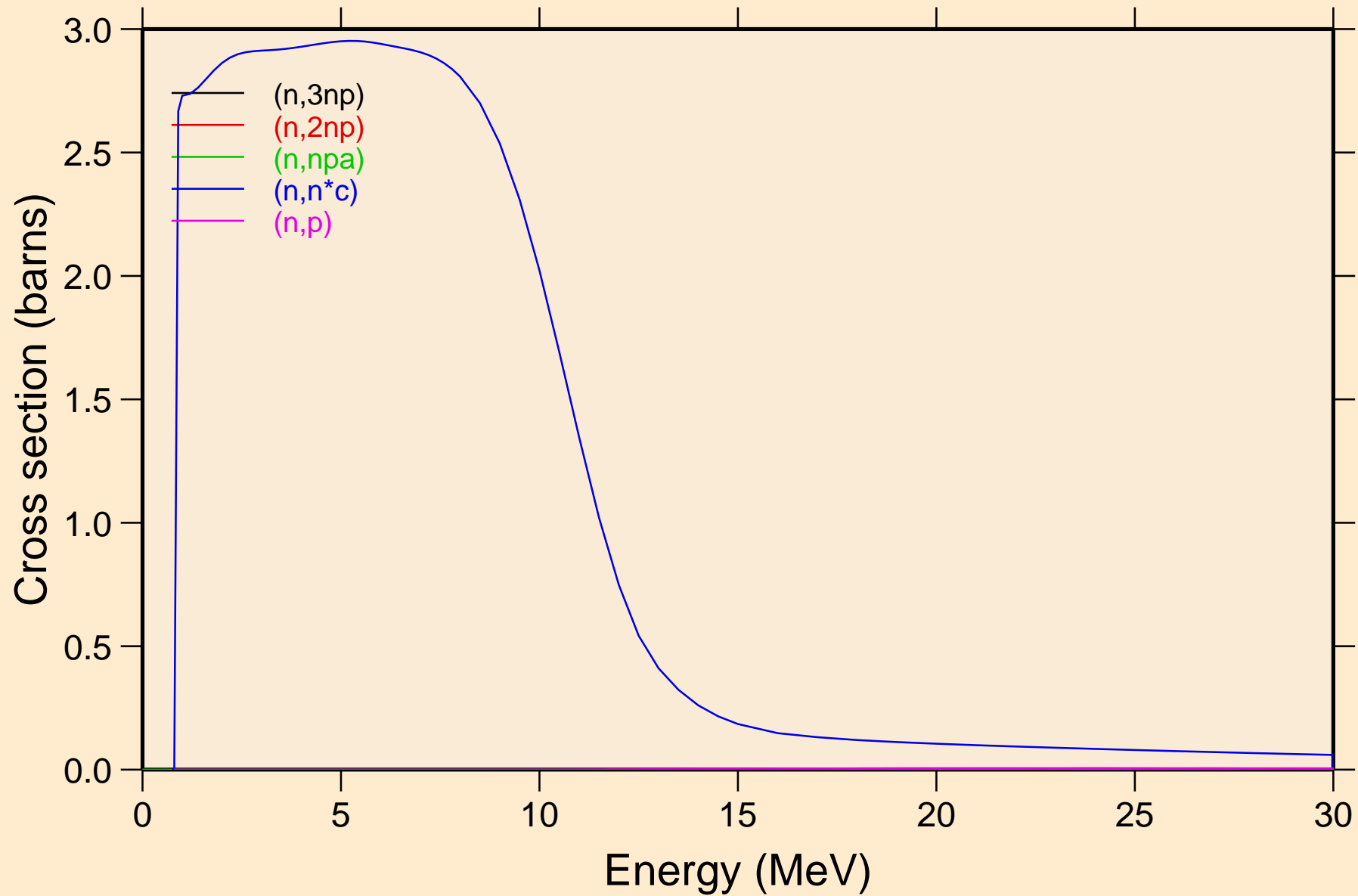


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

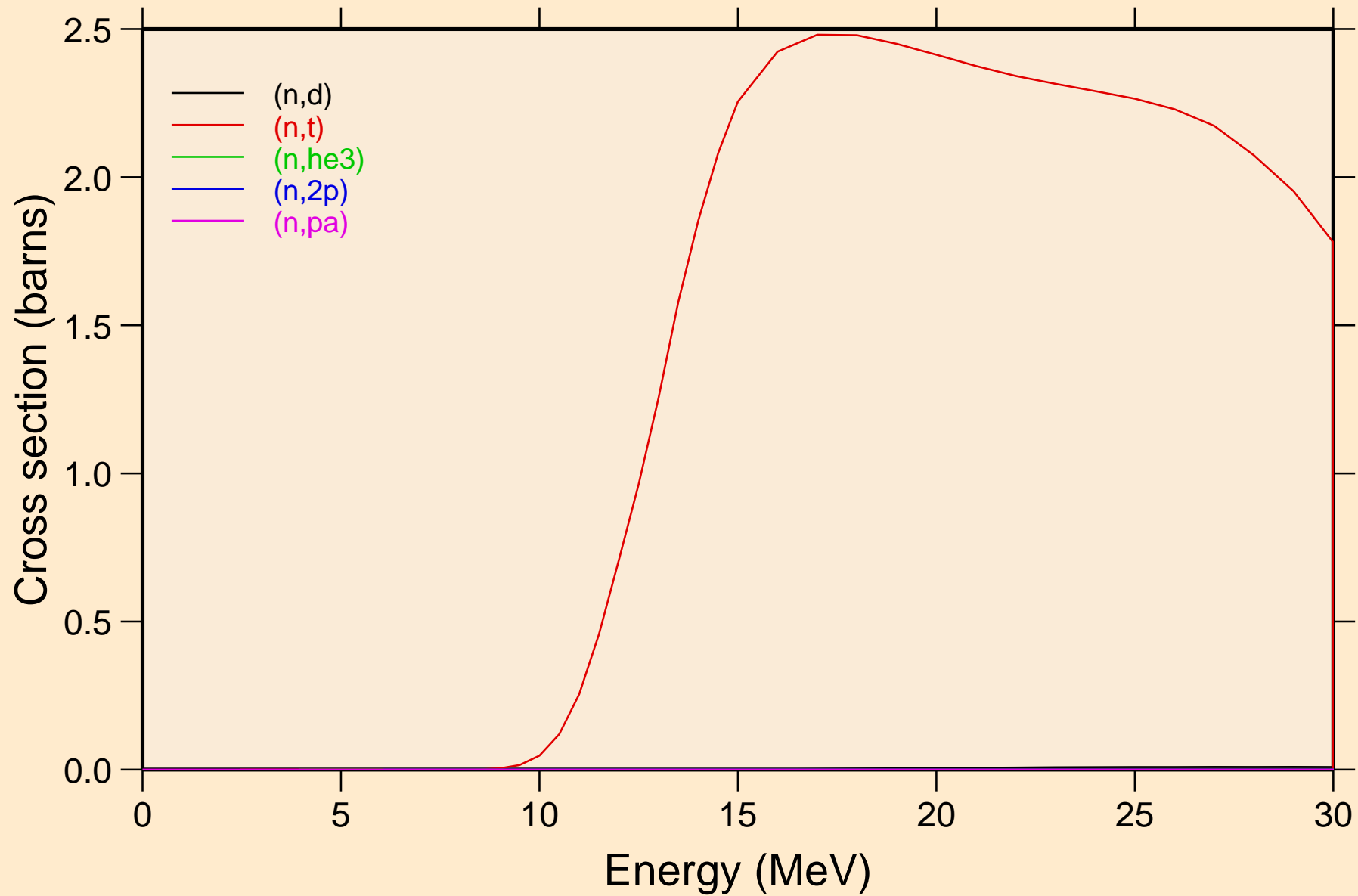




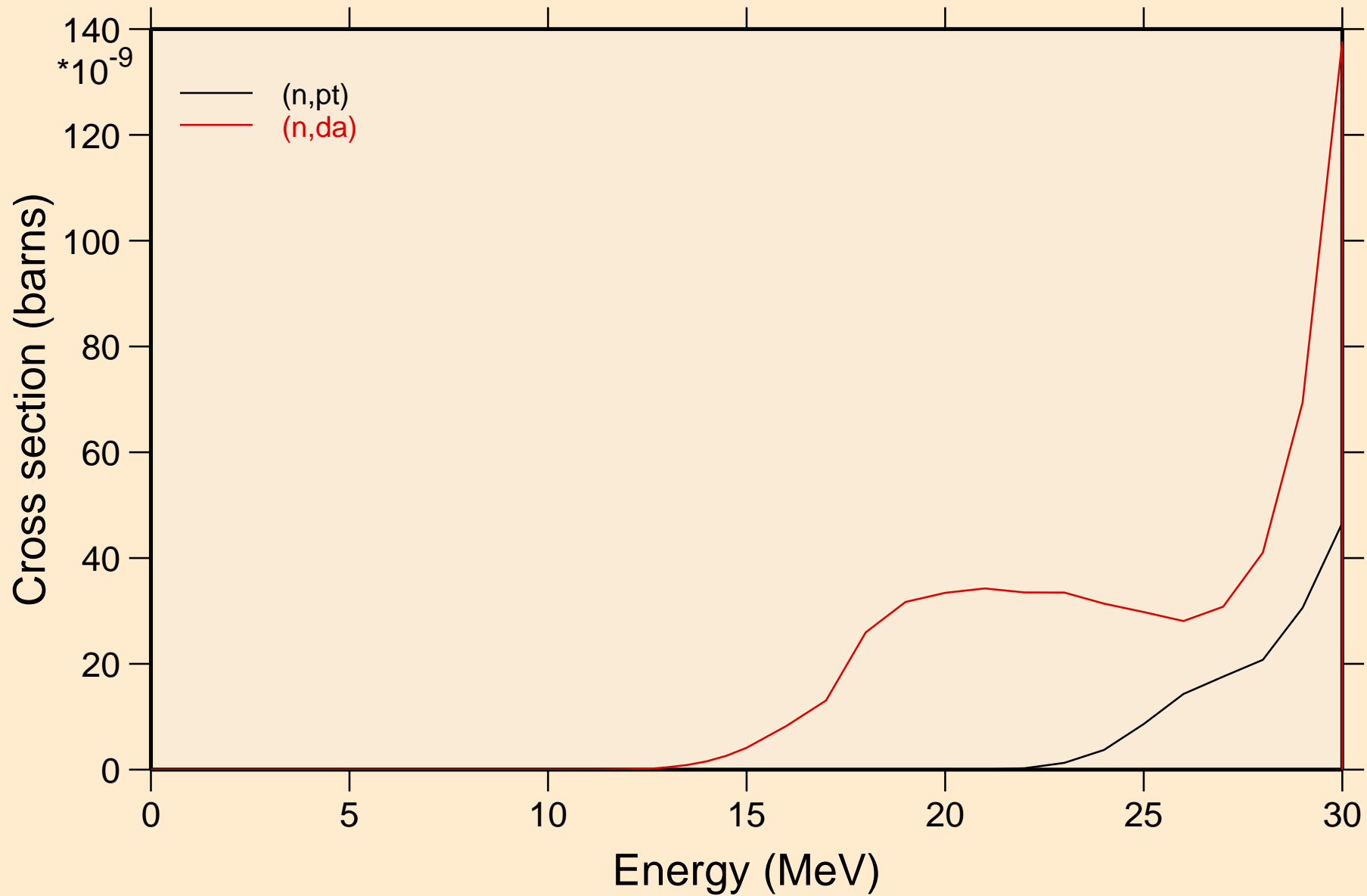
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



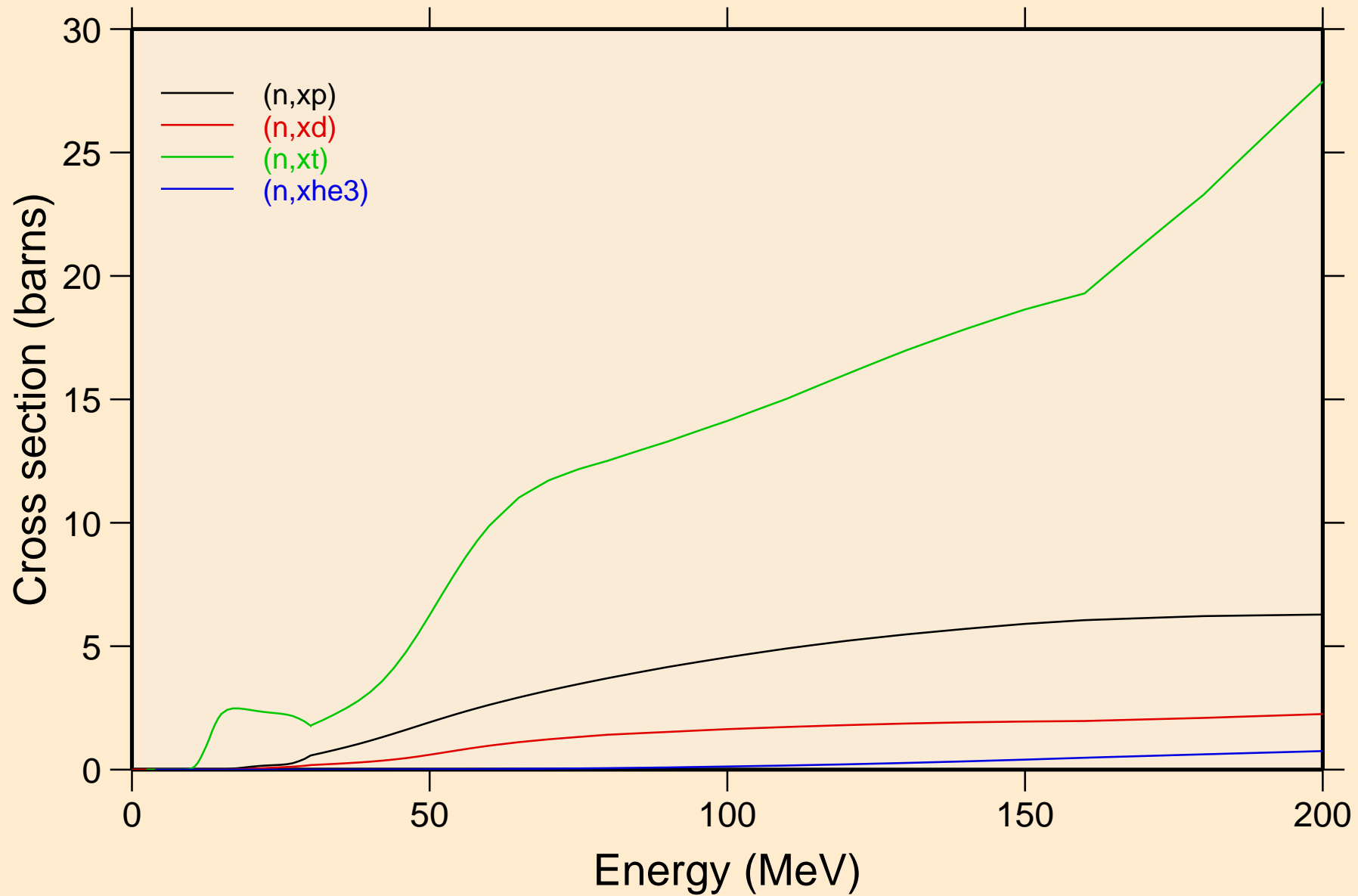
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



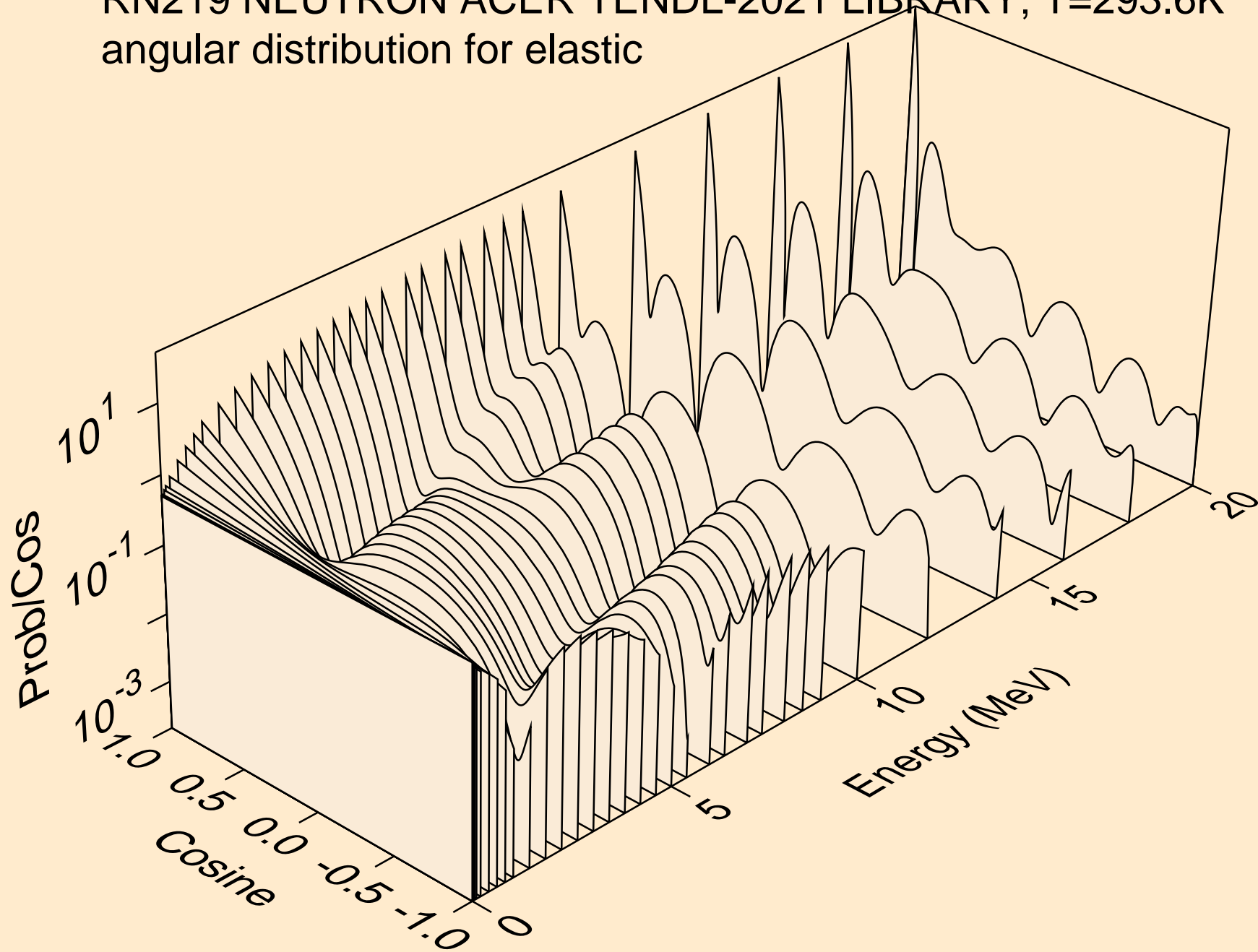
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



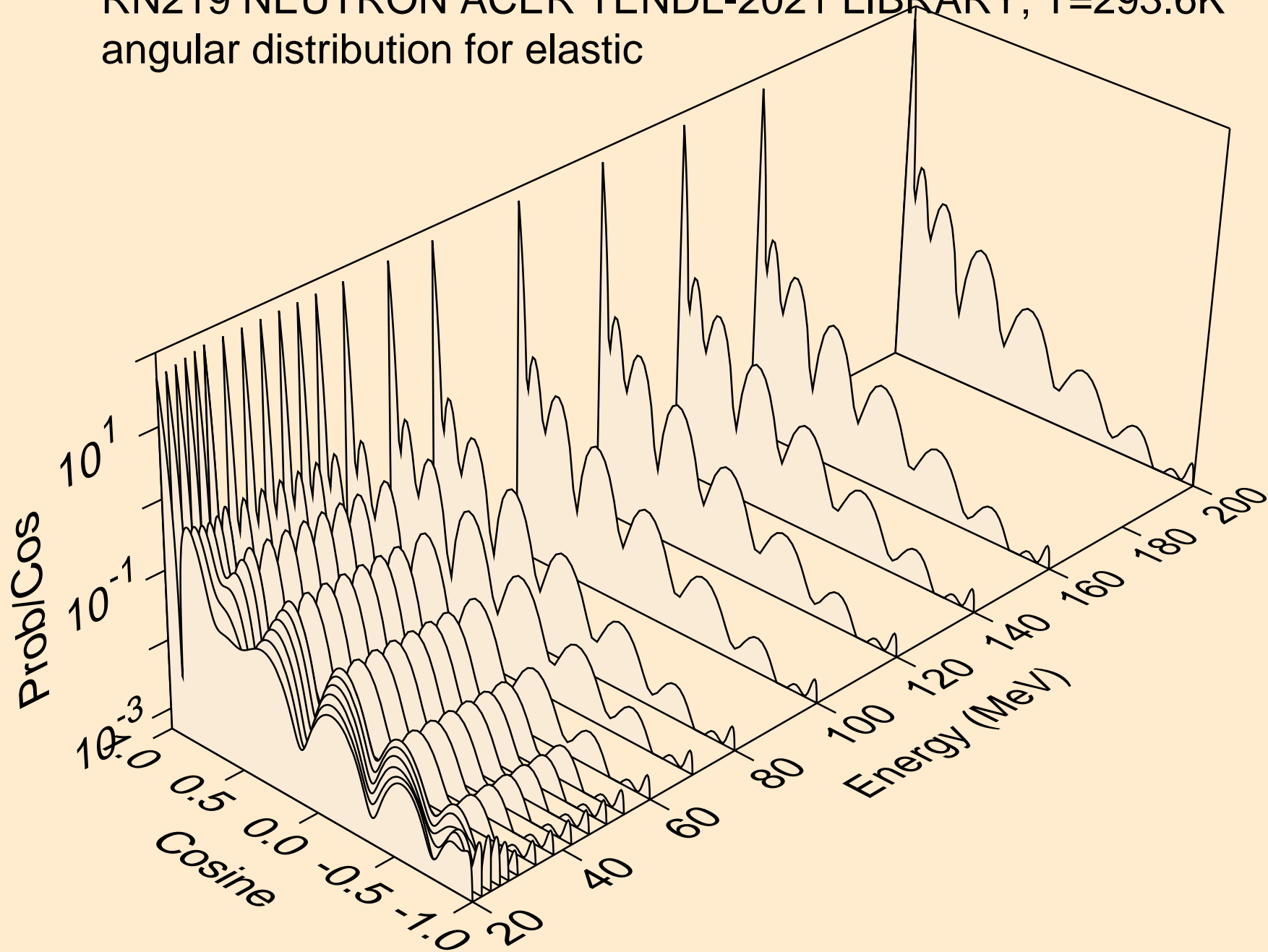
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



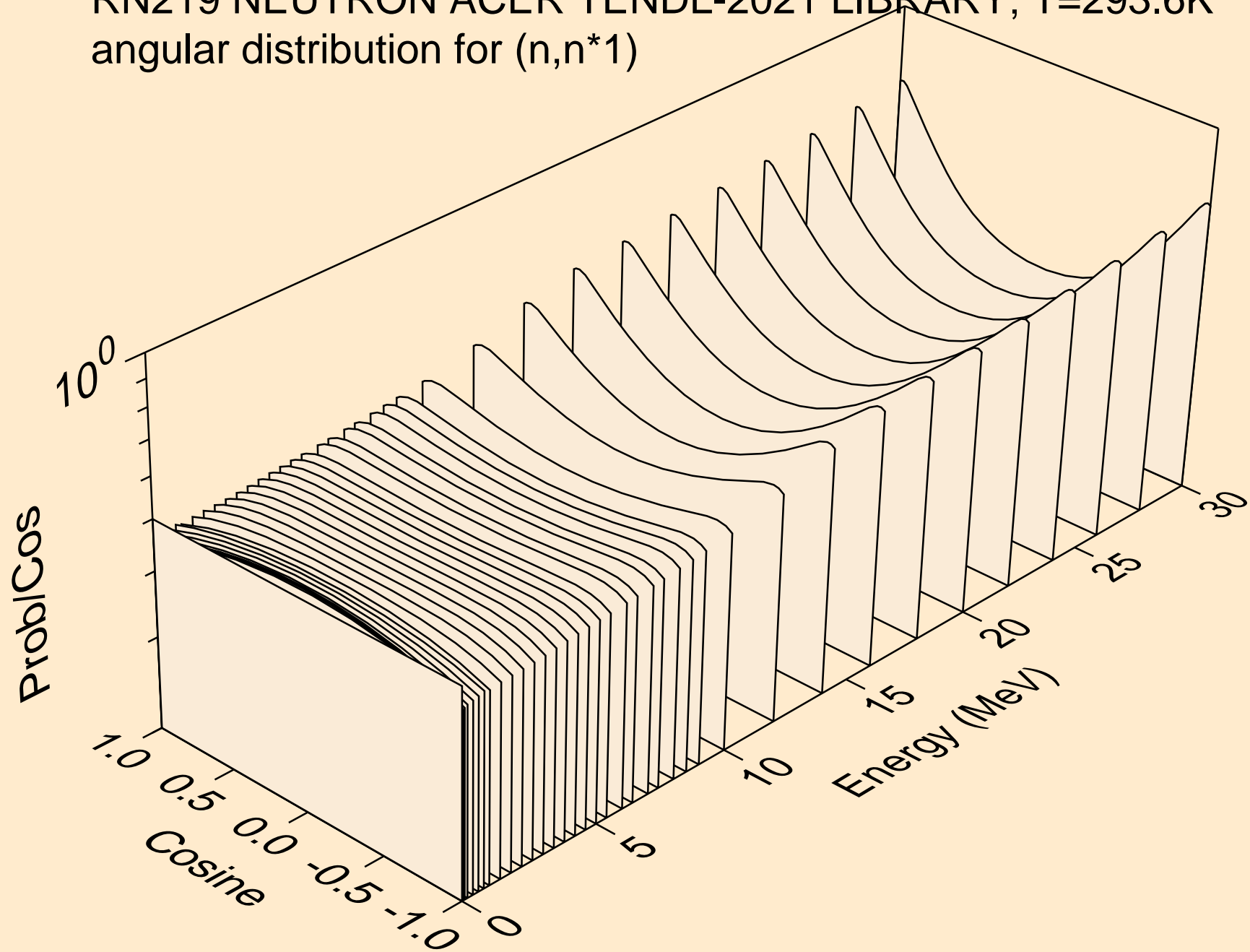
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



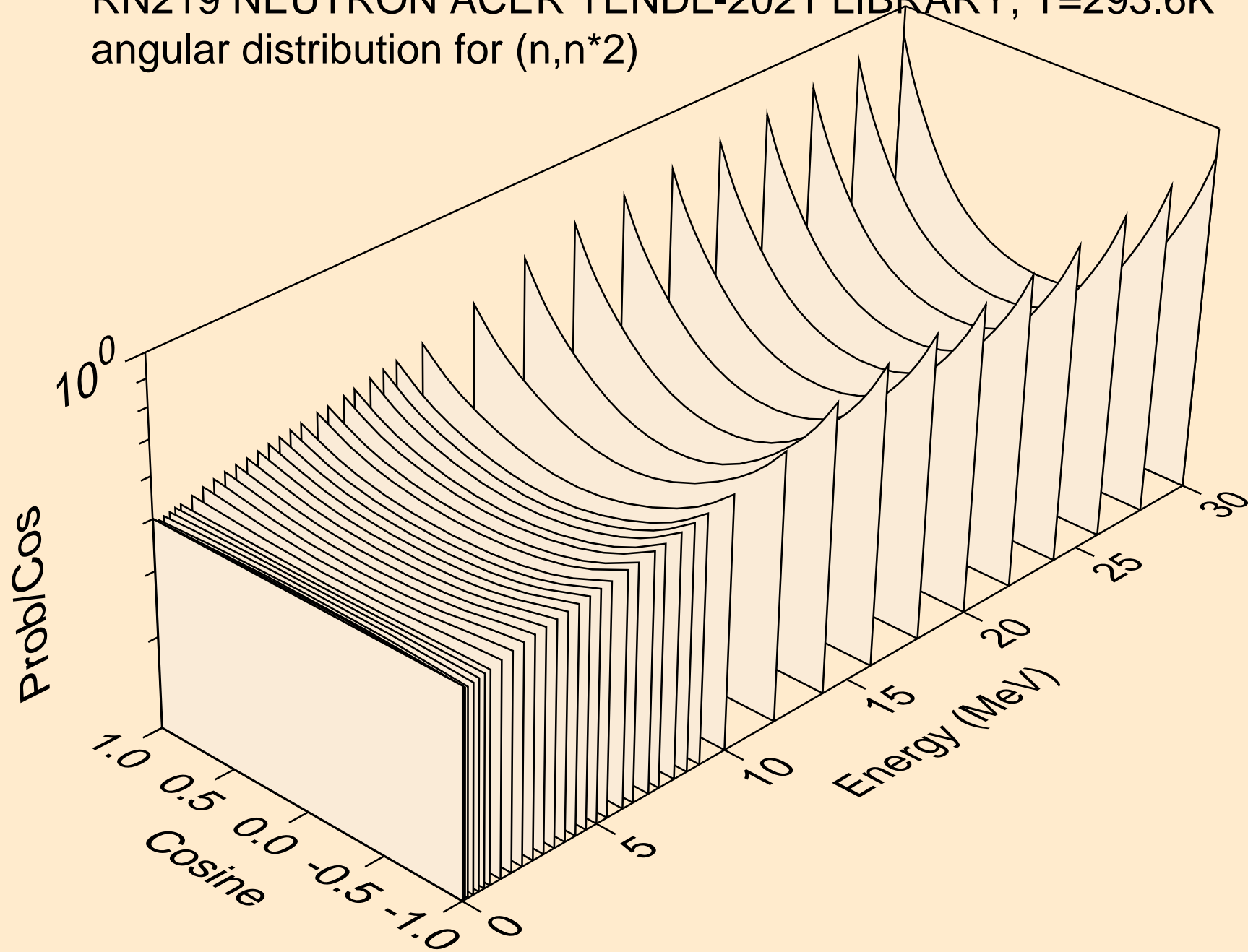
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

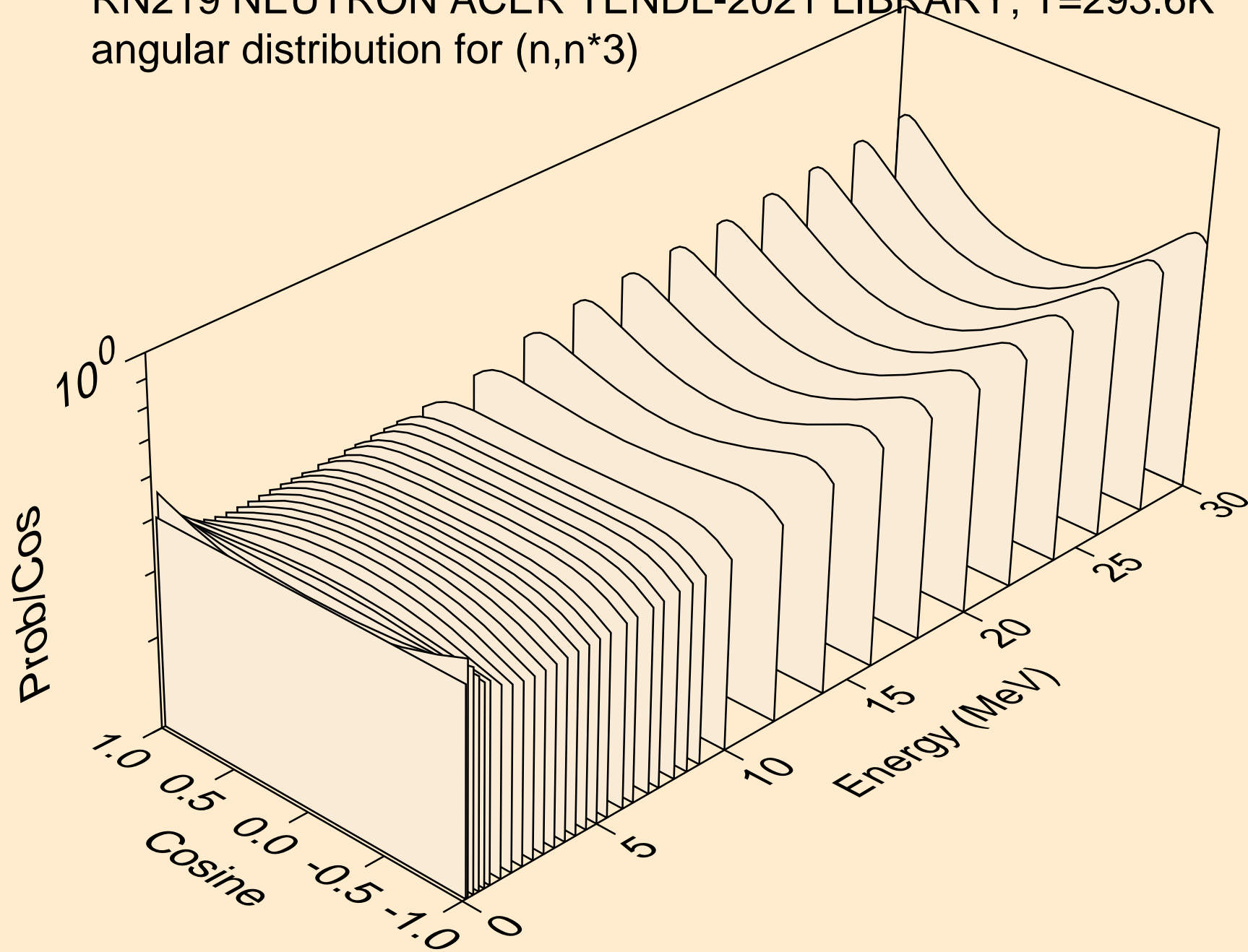


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

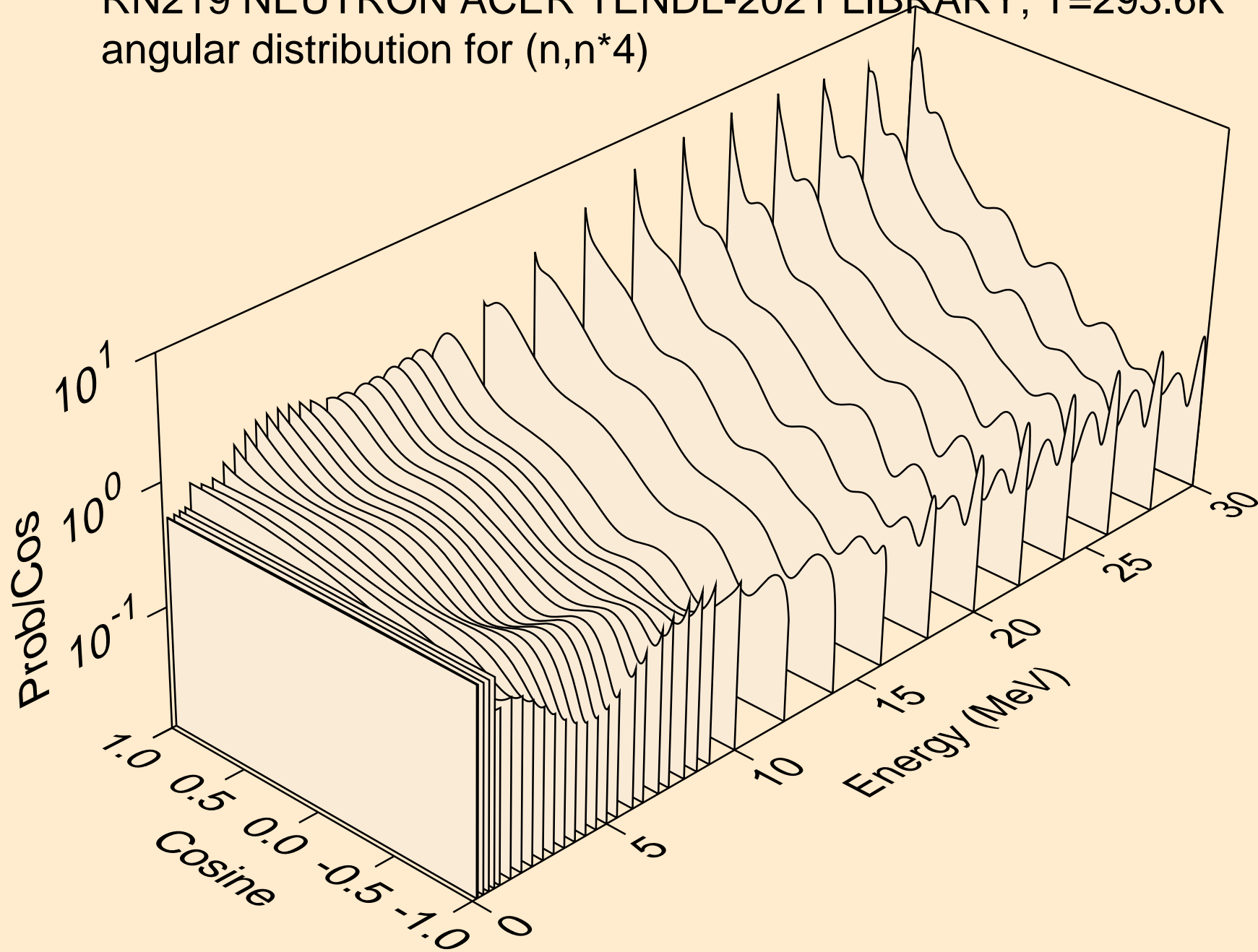




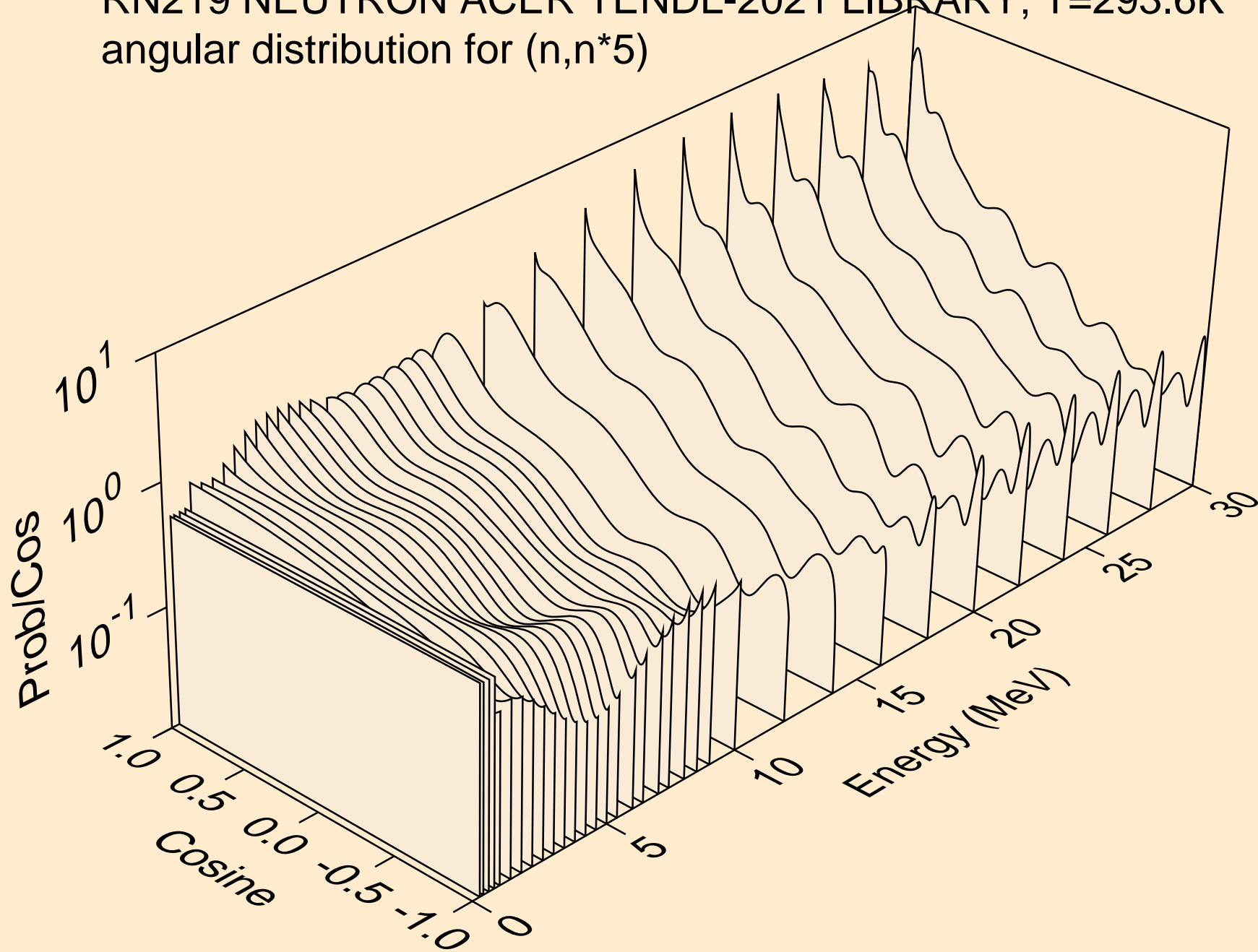
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angular distribution for (n,n\*3)



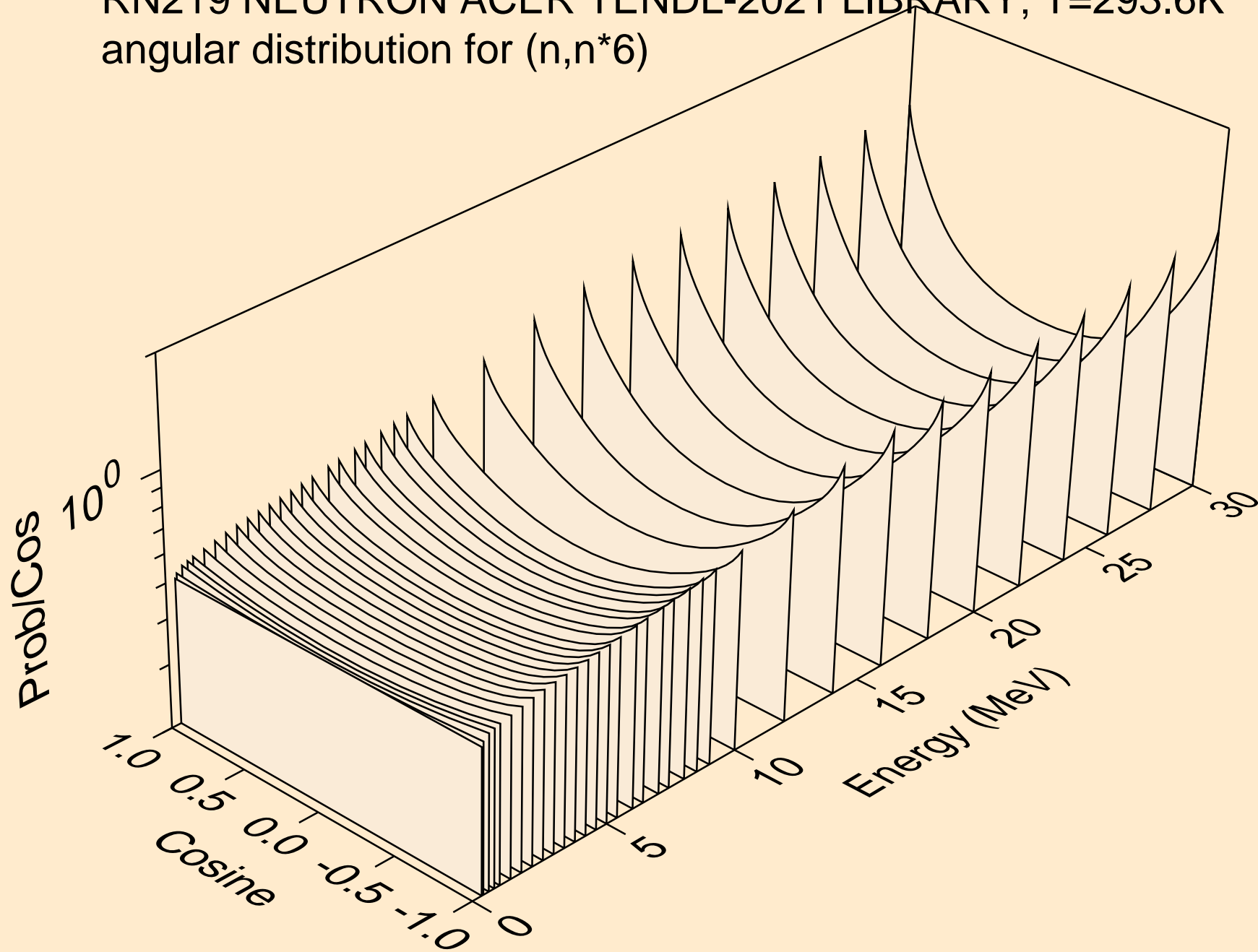
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angular distribution for (n,n\*4)



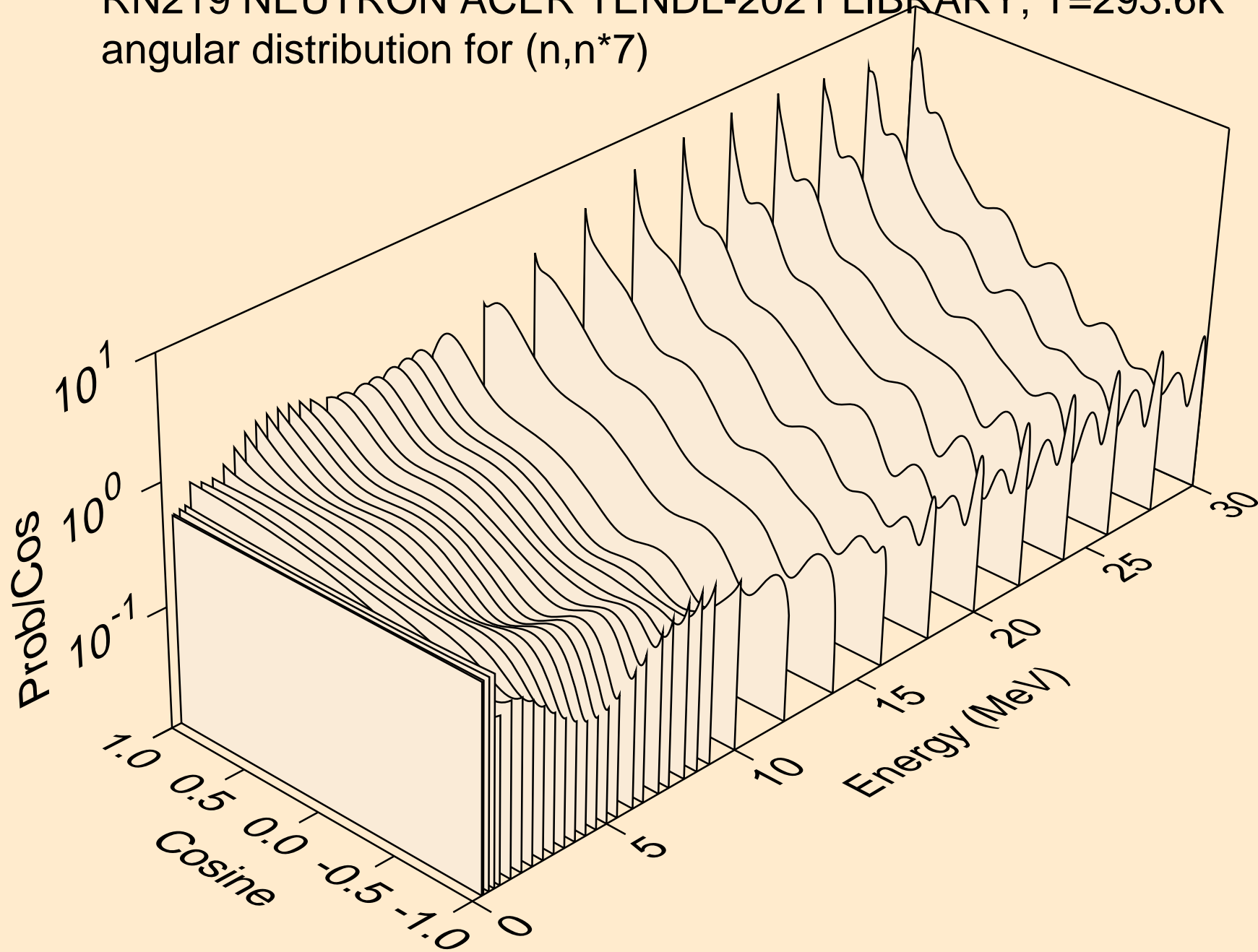
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angular distribution for (n,n\*5)



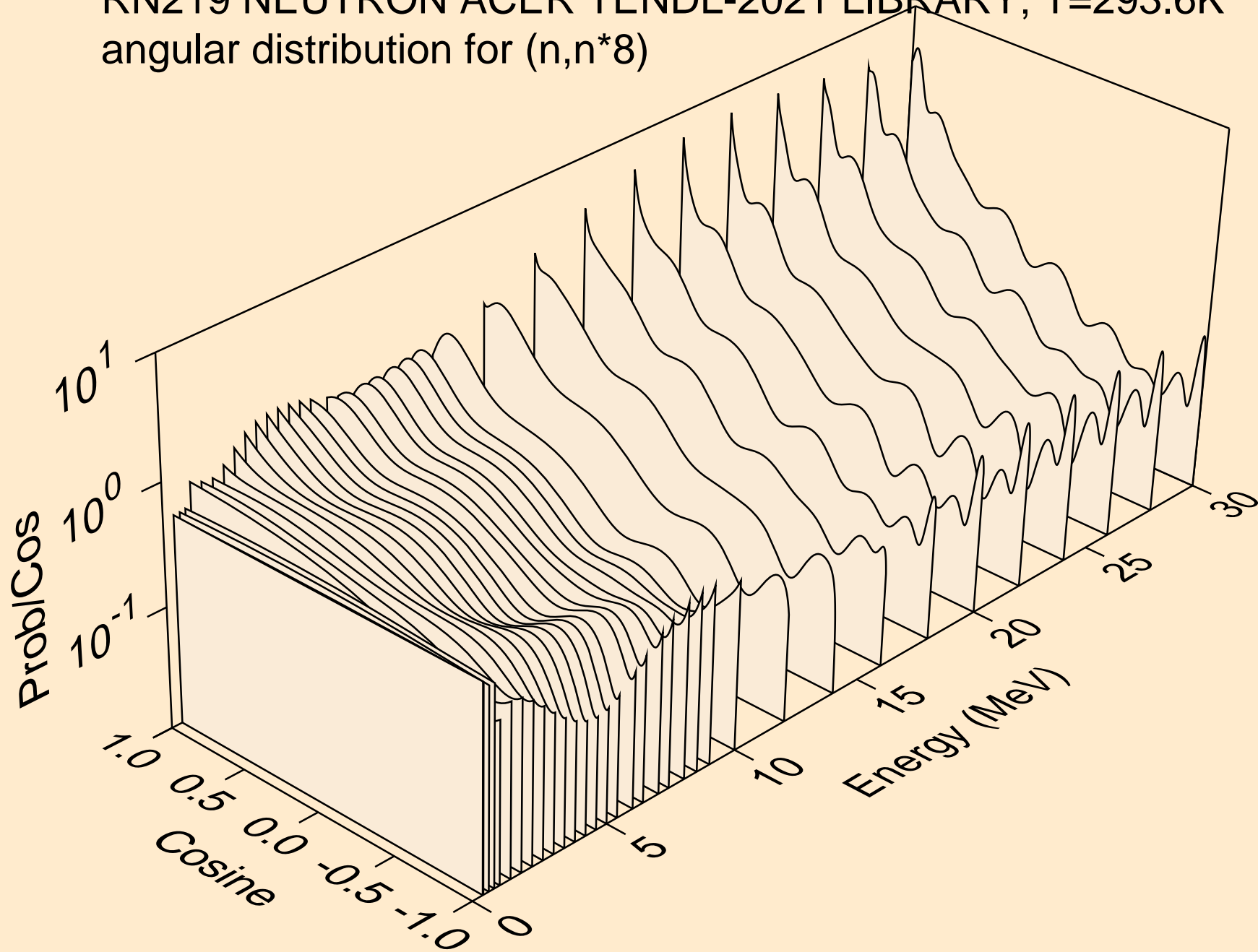
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angular distribution for (n,n\*6)



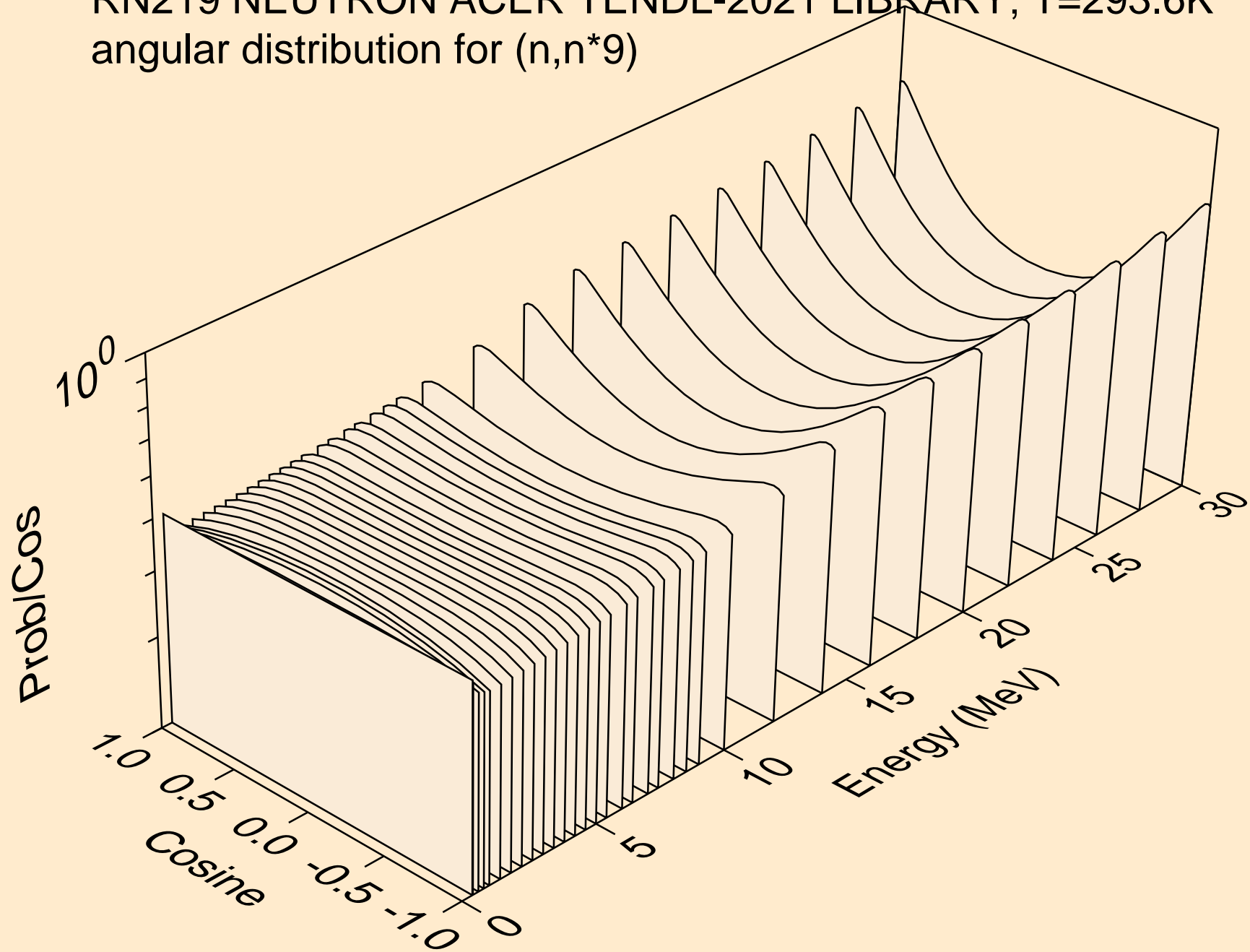
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angular distribution for (n,n\*7)



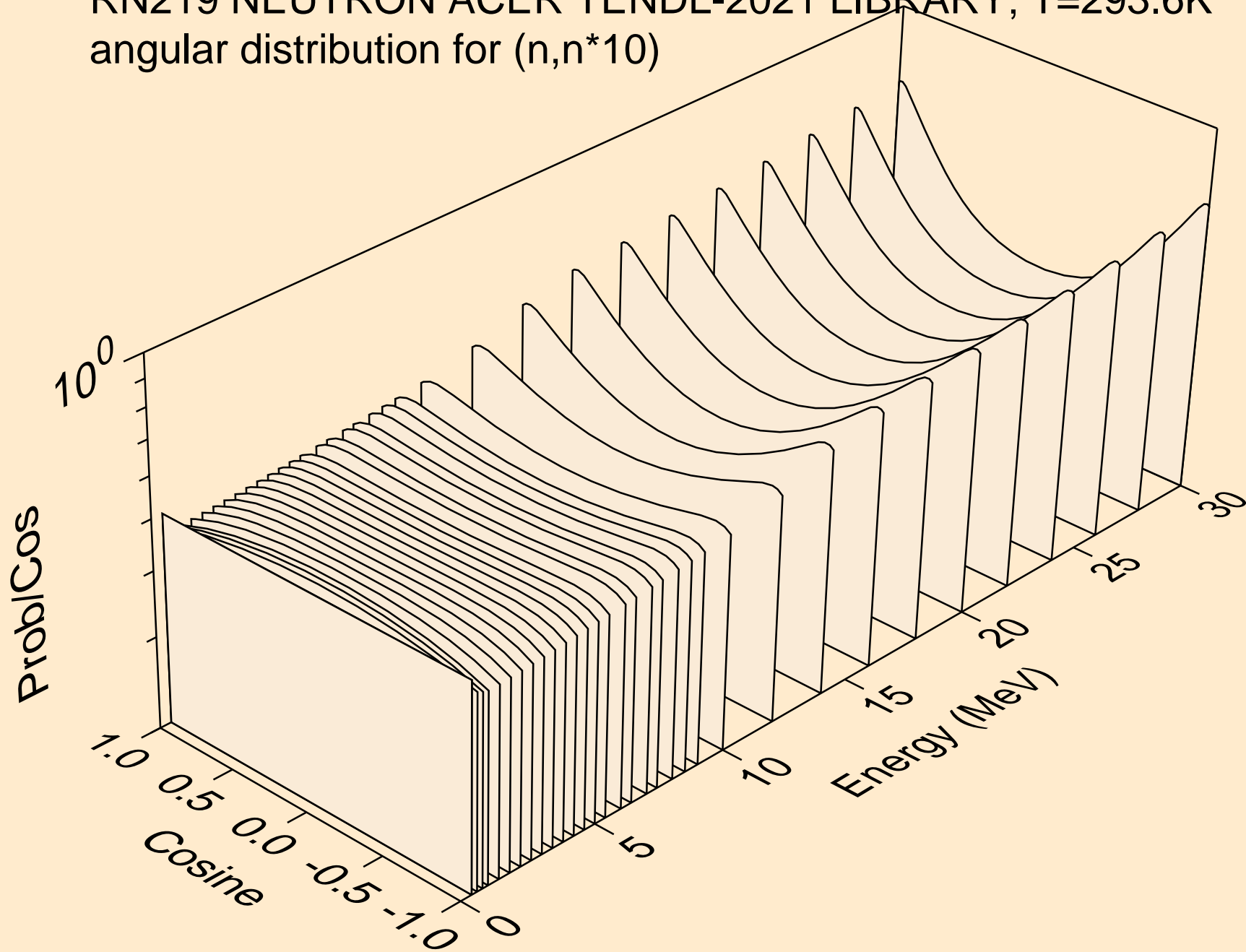
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

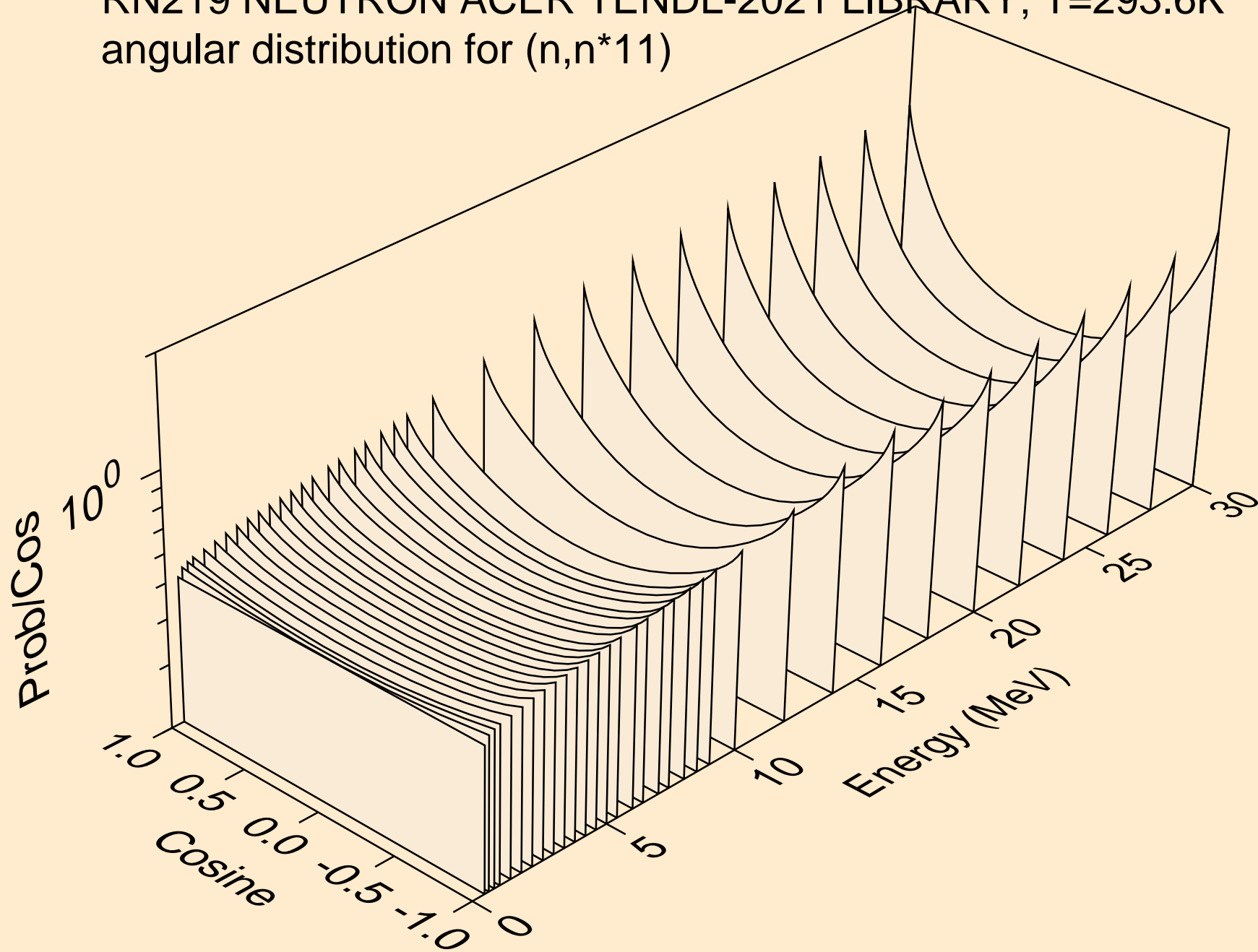


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angular distribution for (n,n\*10)

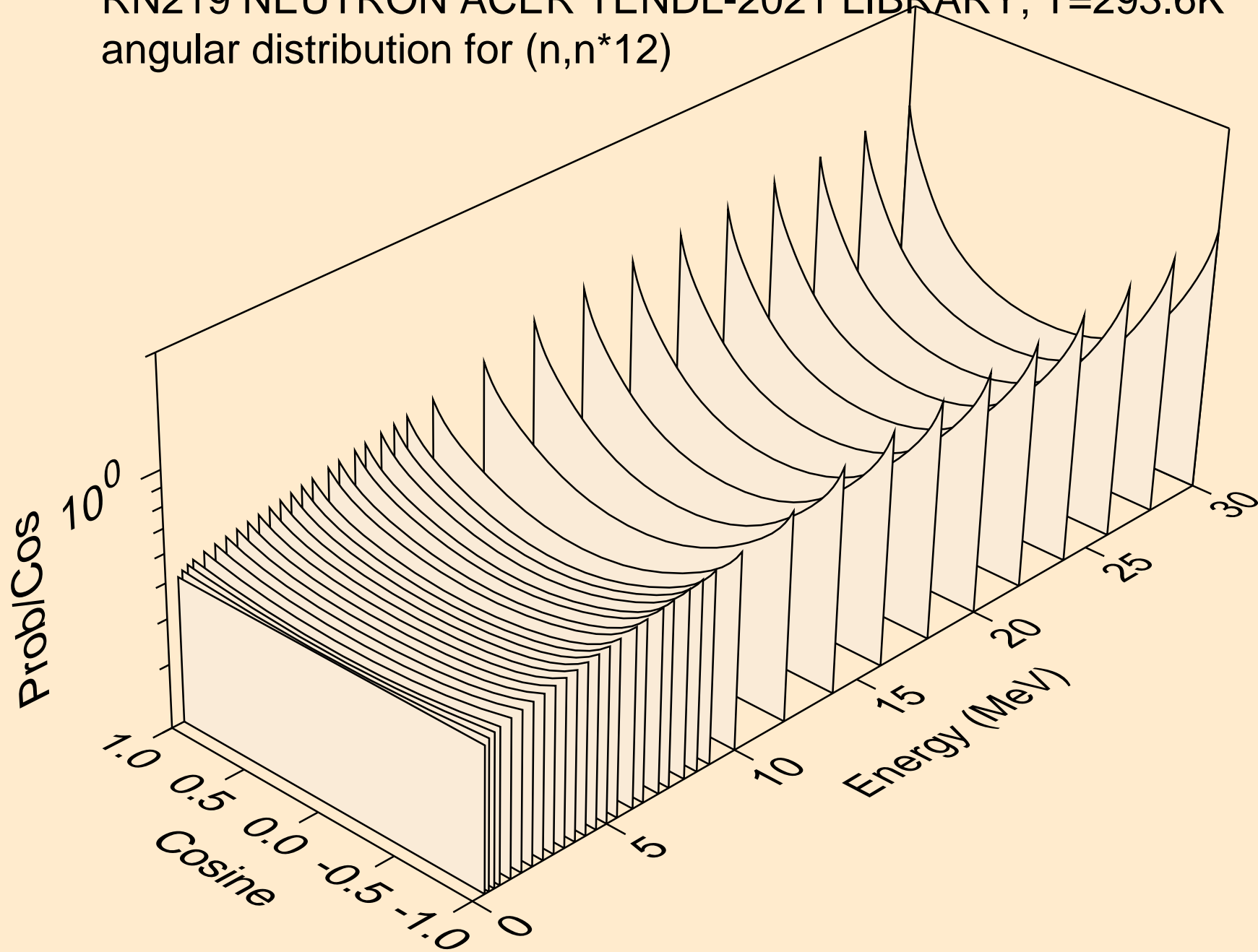




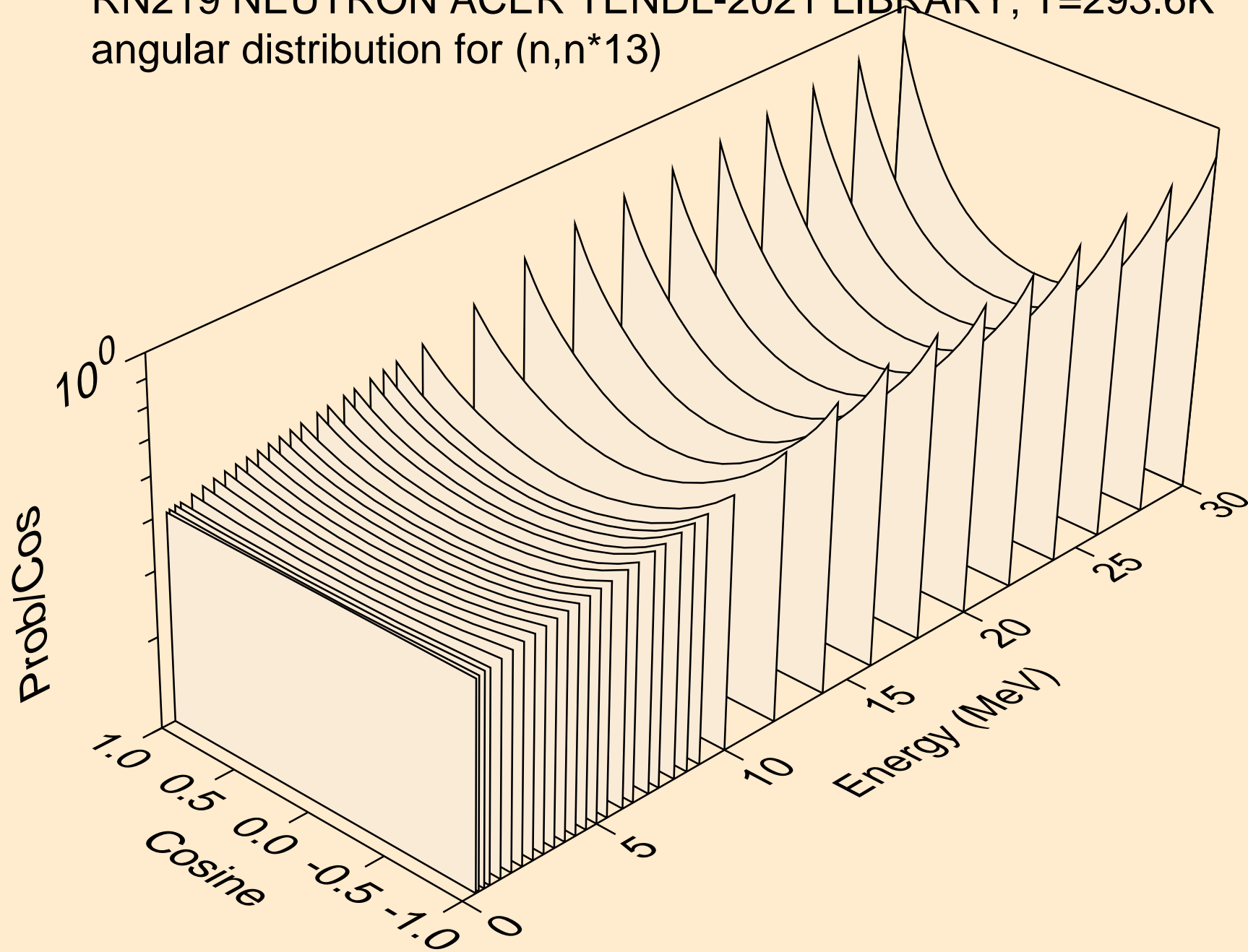
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angular distribution for (n,n\*11)



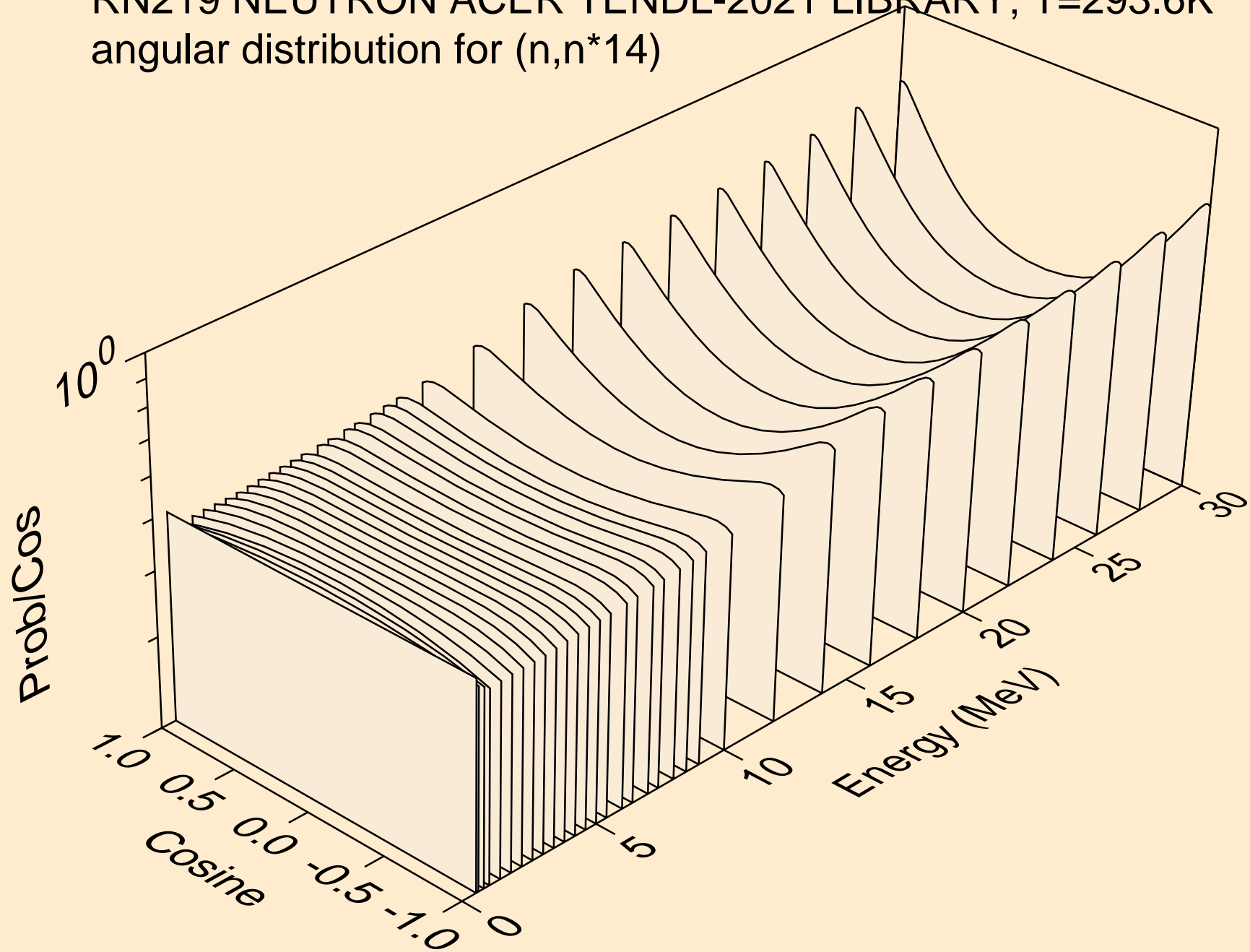
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angular distribution for (n,n\*12)



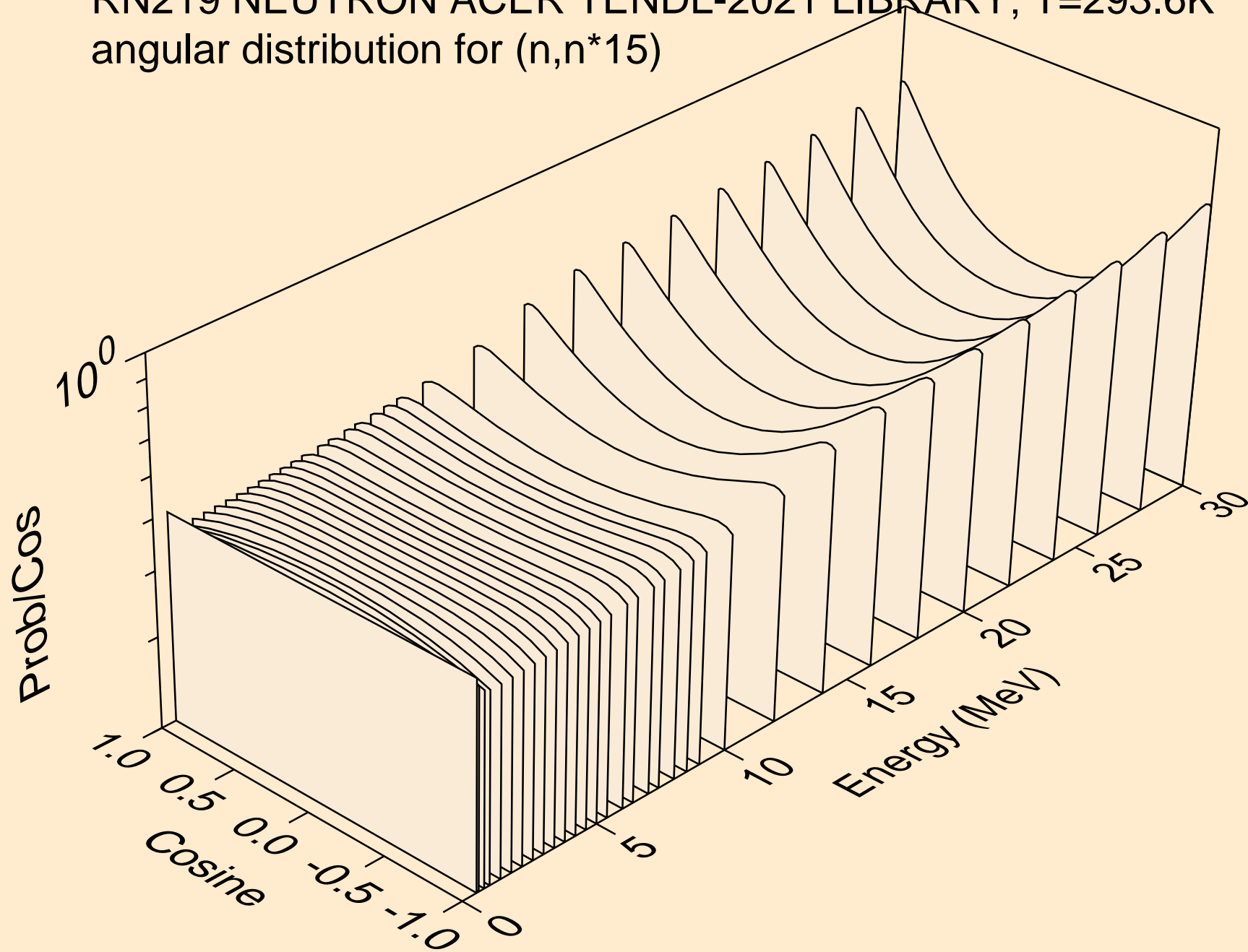
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angular distribution for (n,n\*13)



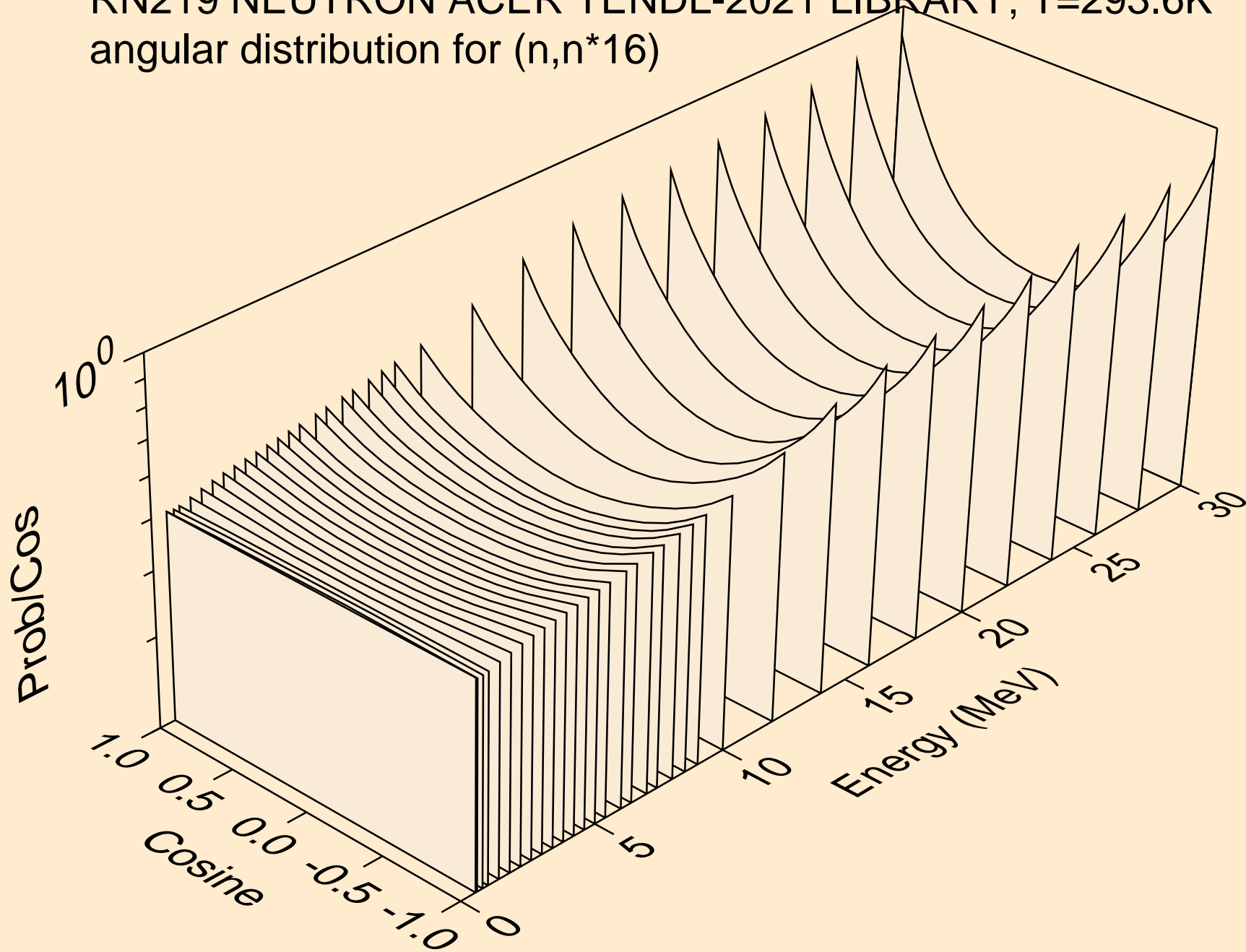
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angular distribution for (n,n\*14)



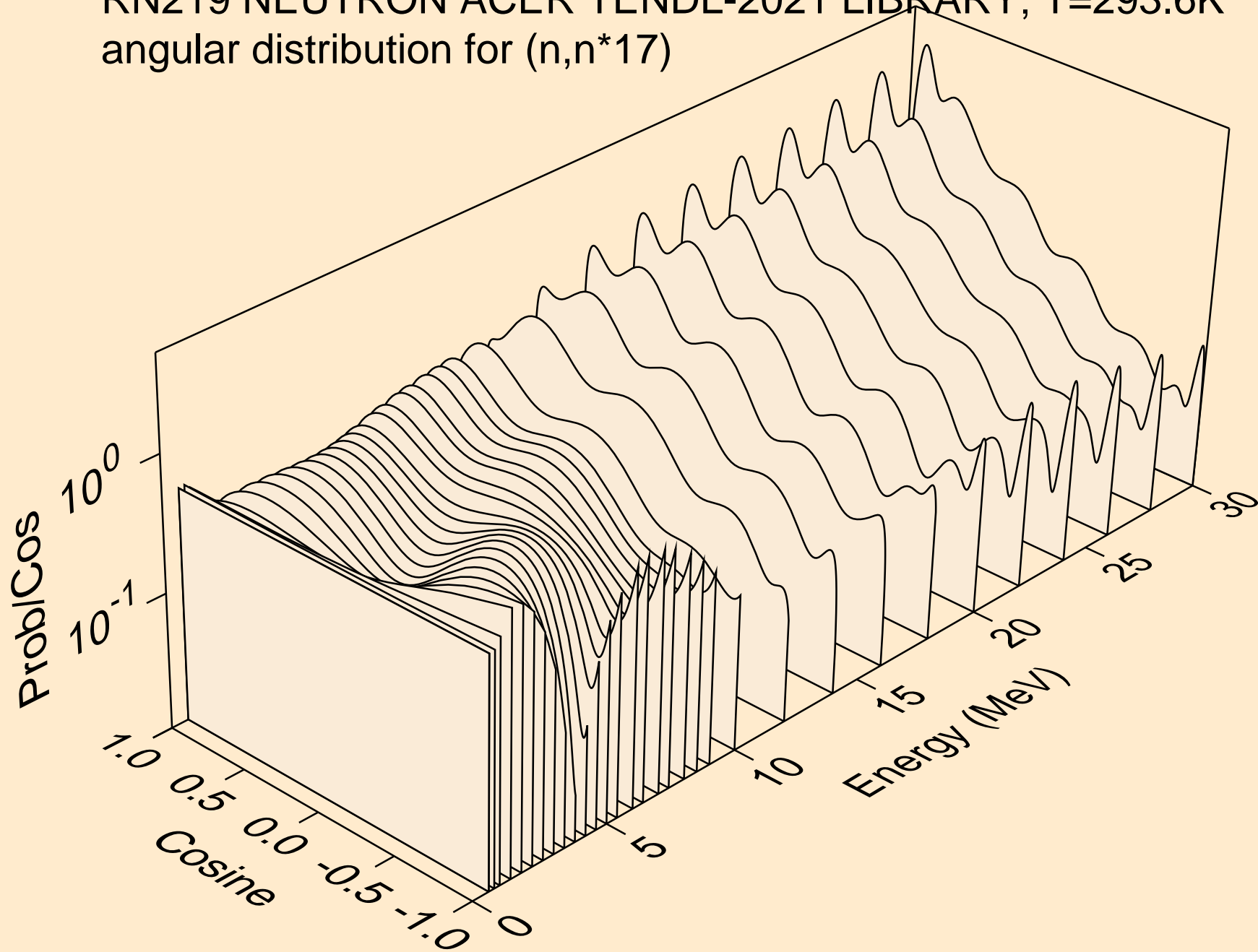
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angular distribution for (n,n\*15)



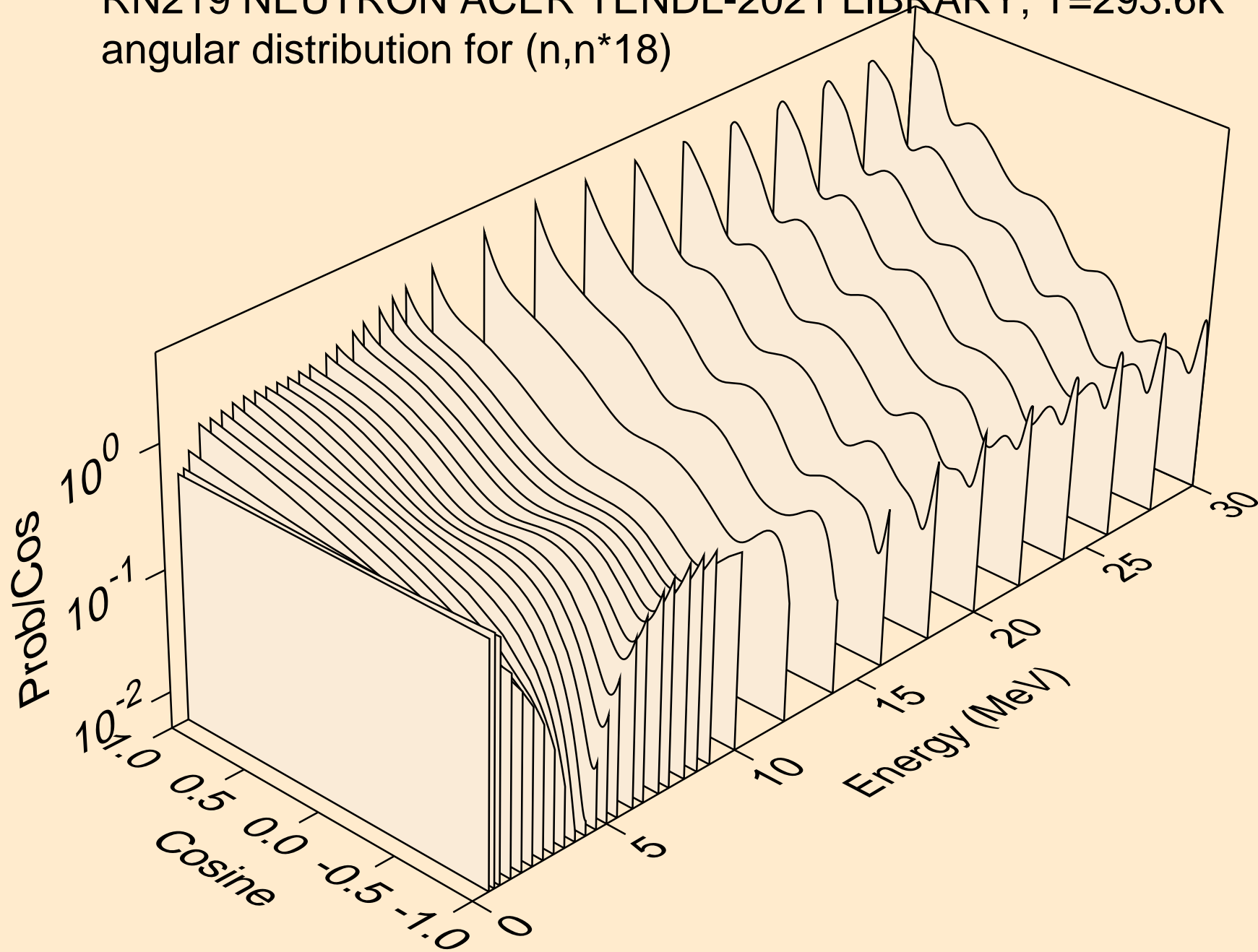
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

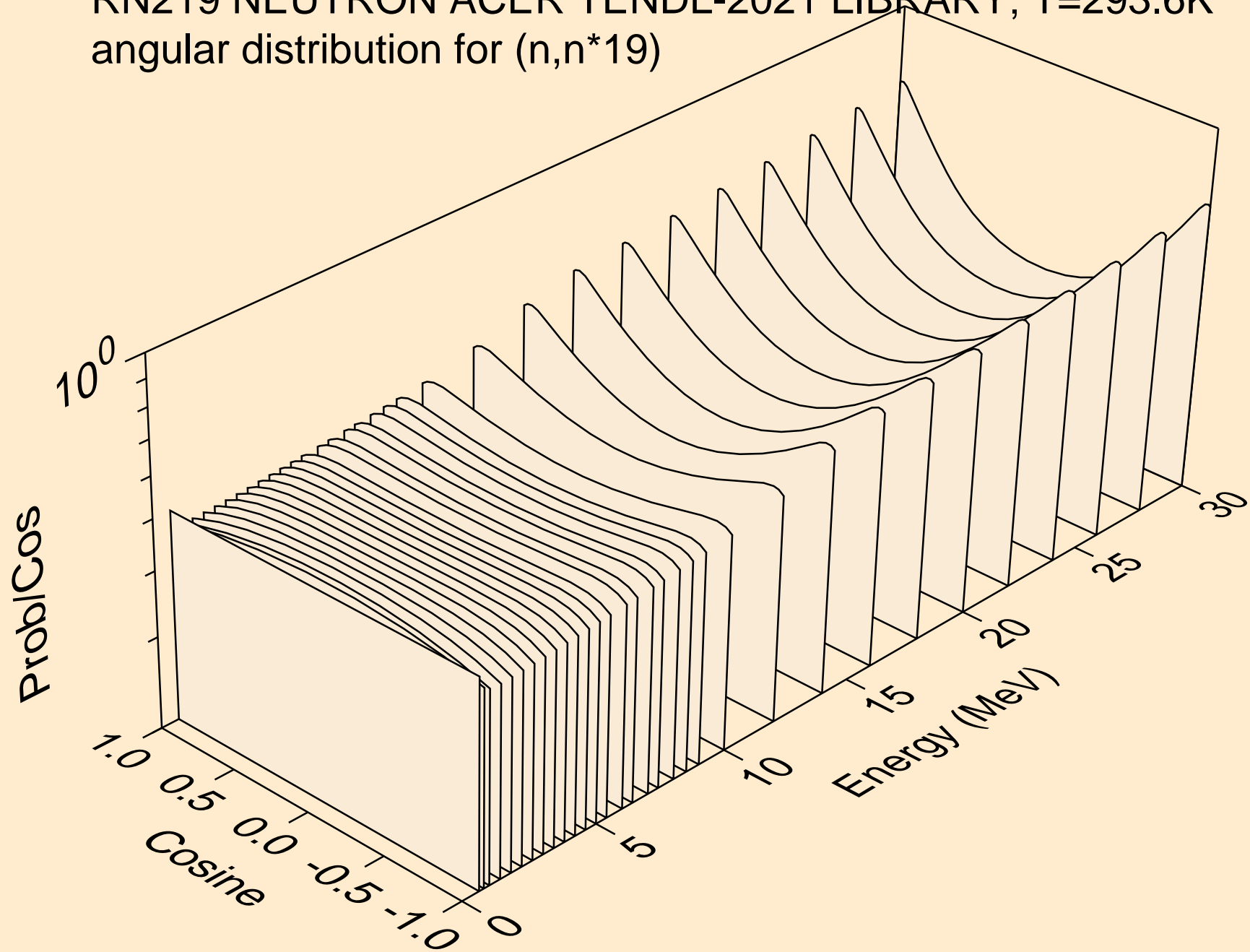


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angular distribution for (n,n\*18)

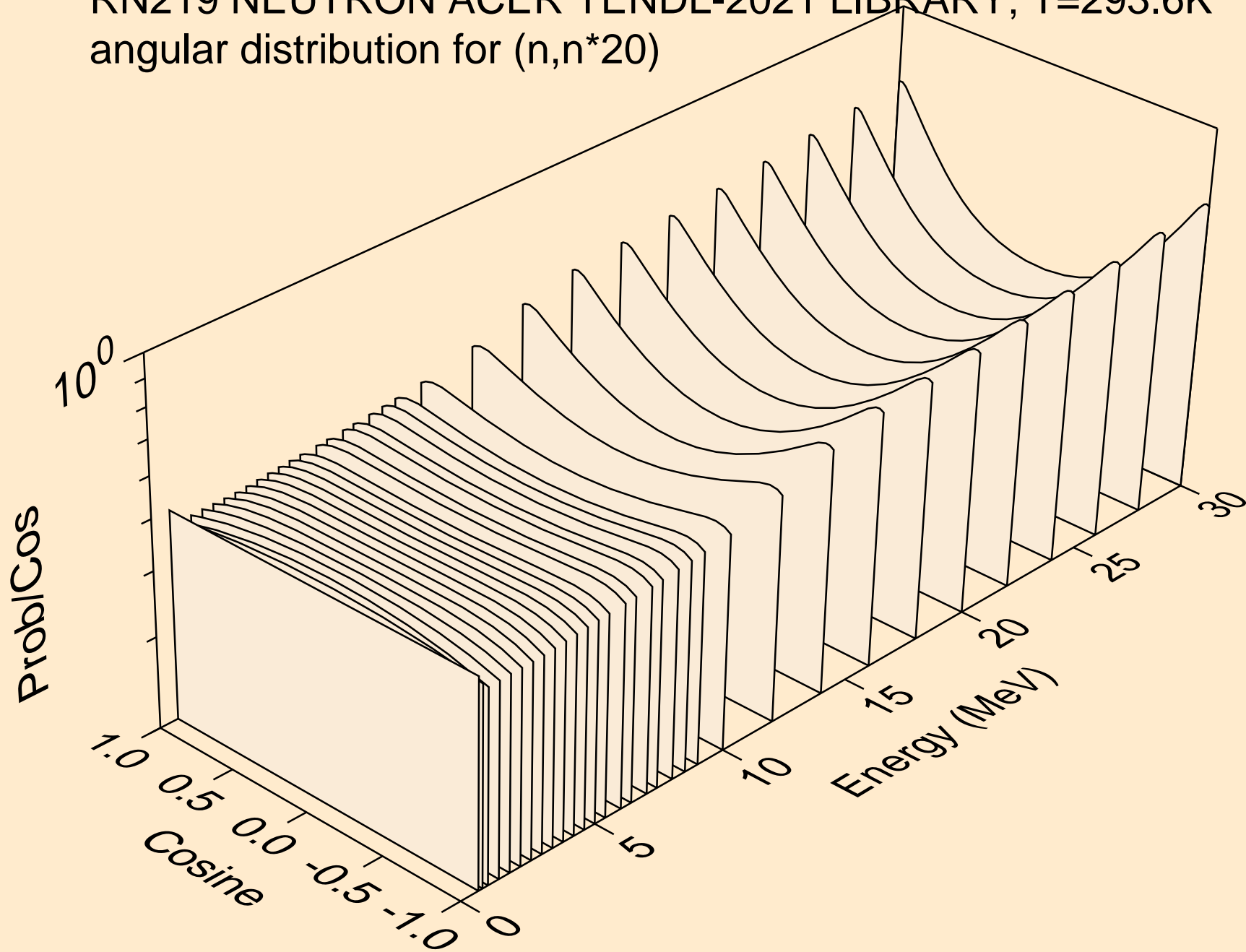




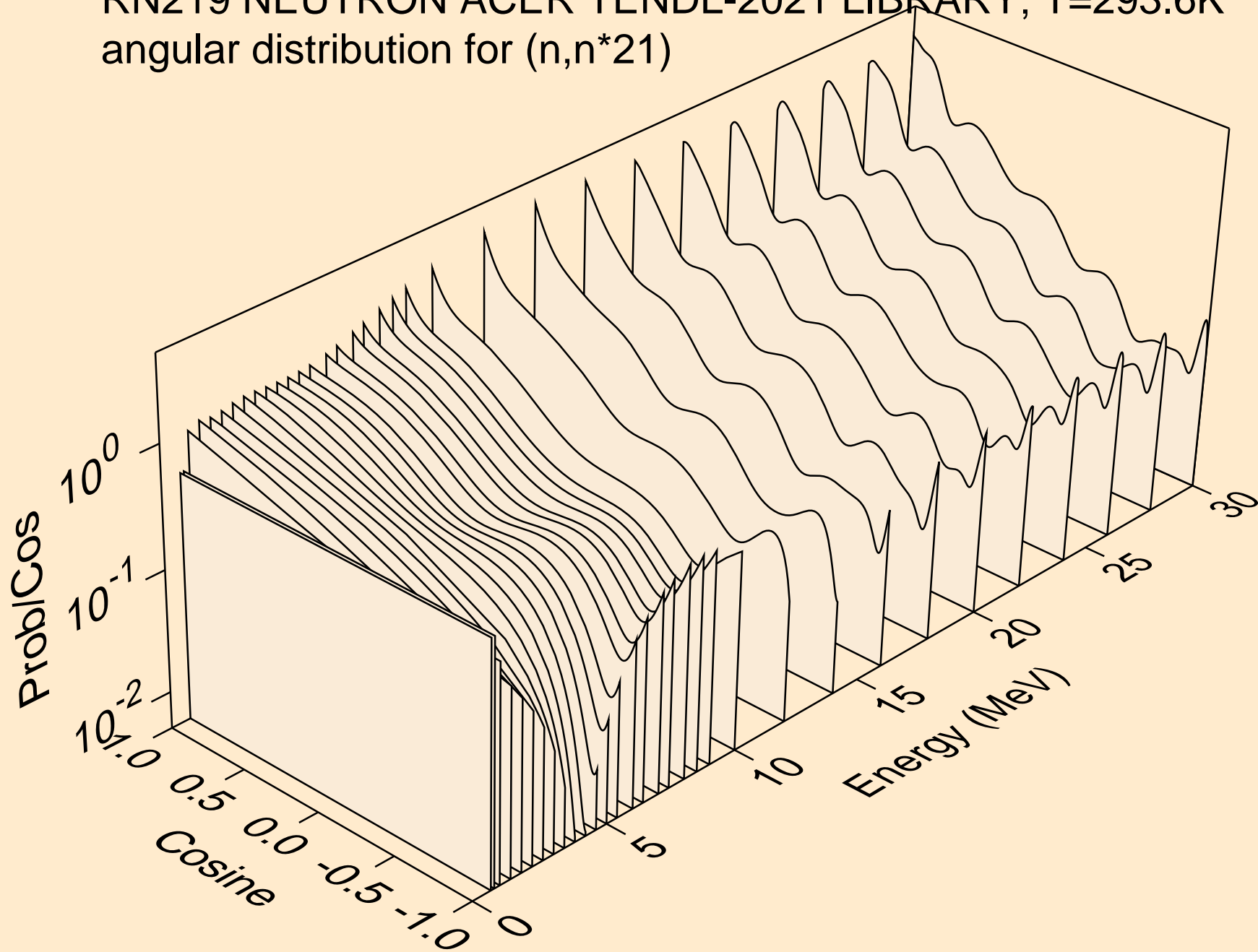
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angular distribution for (n,n\*19)



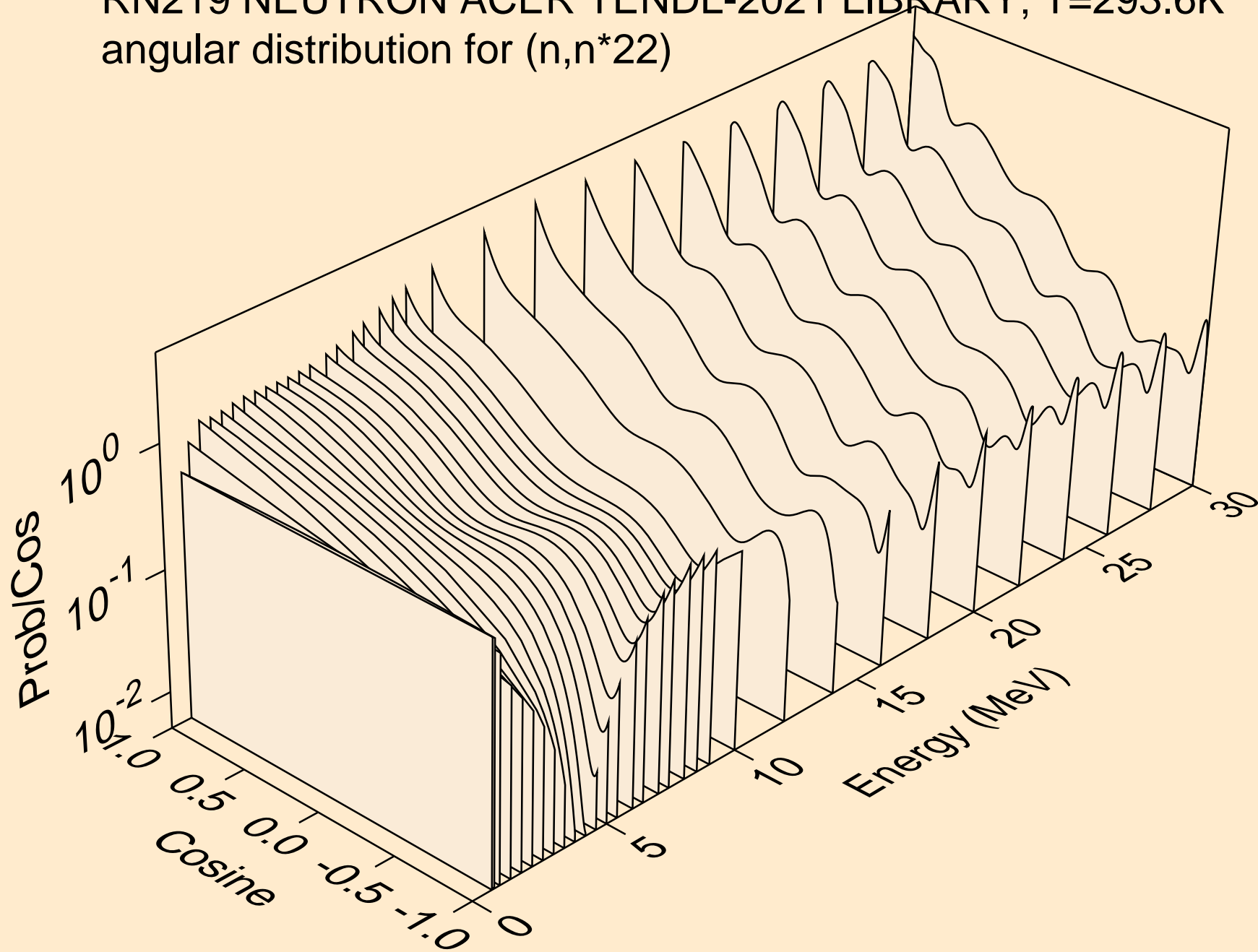
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angular distribution for (n,n\*20)



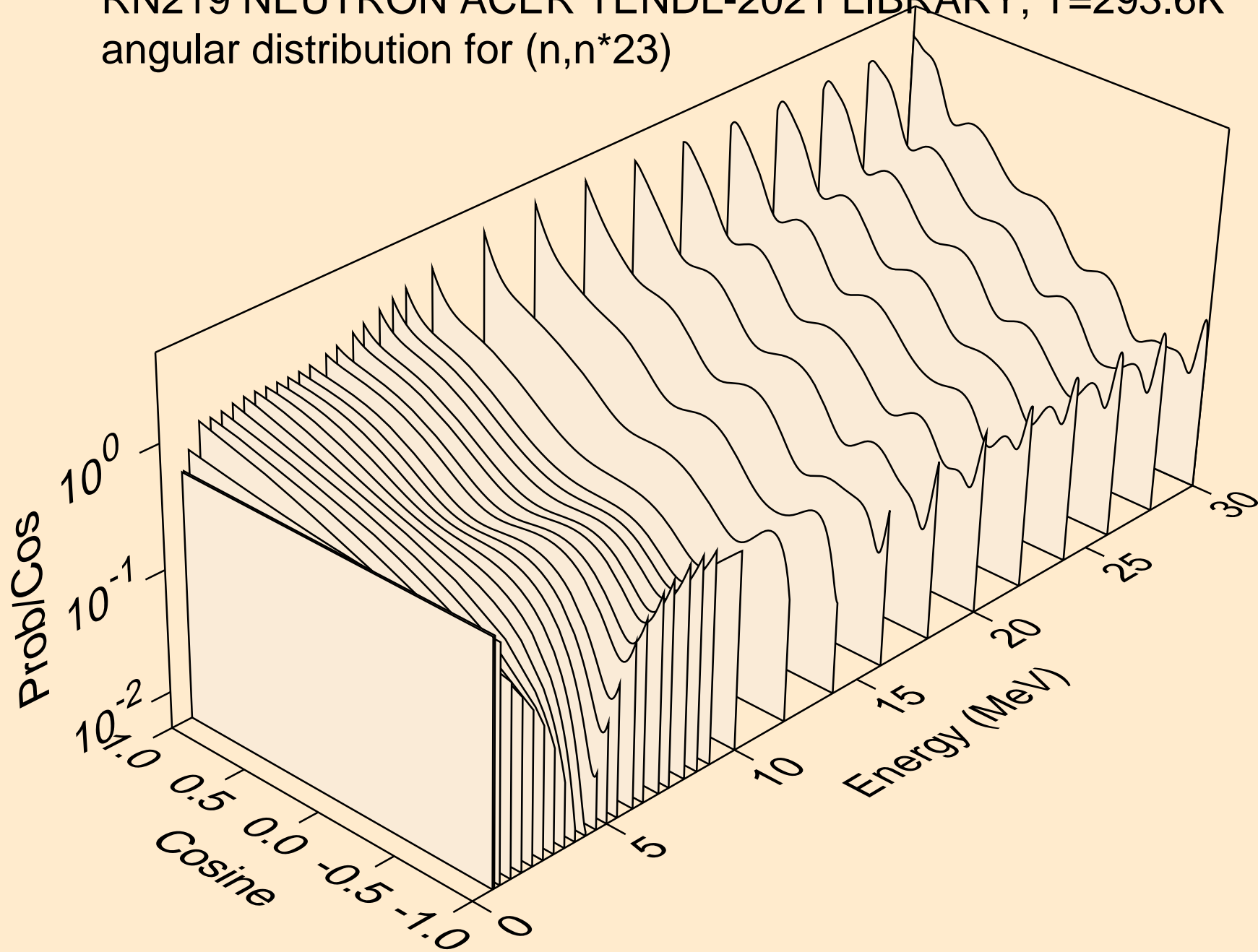
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angular distribution for (n,n\*21)



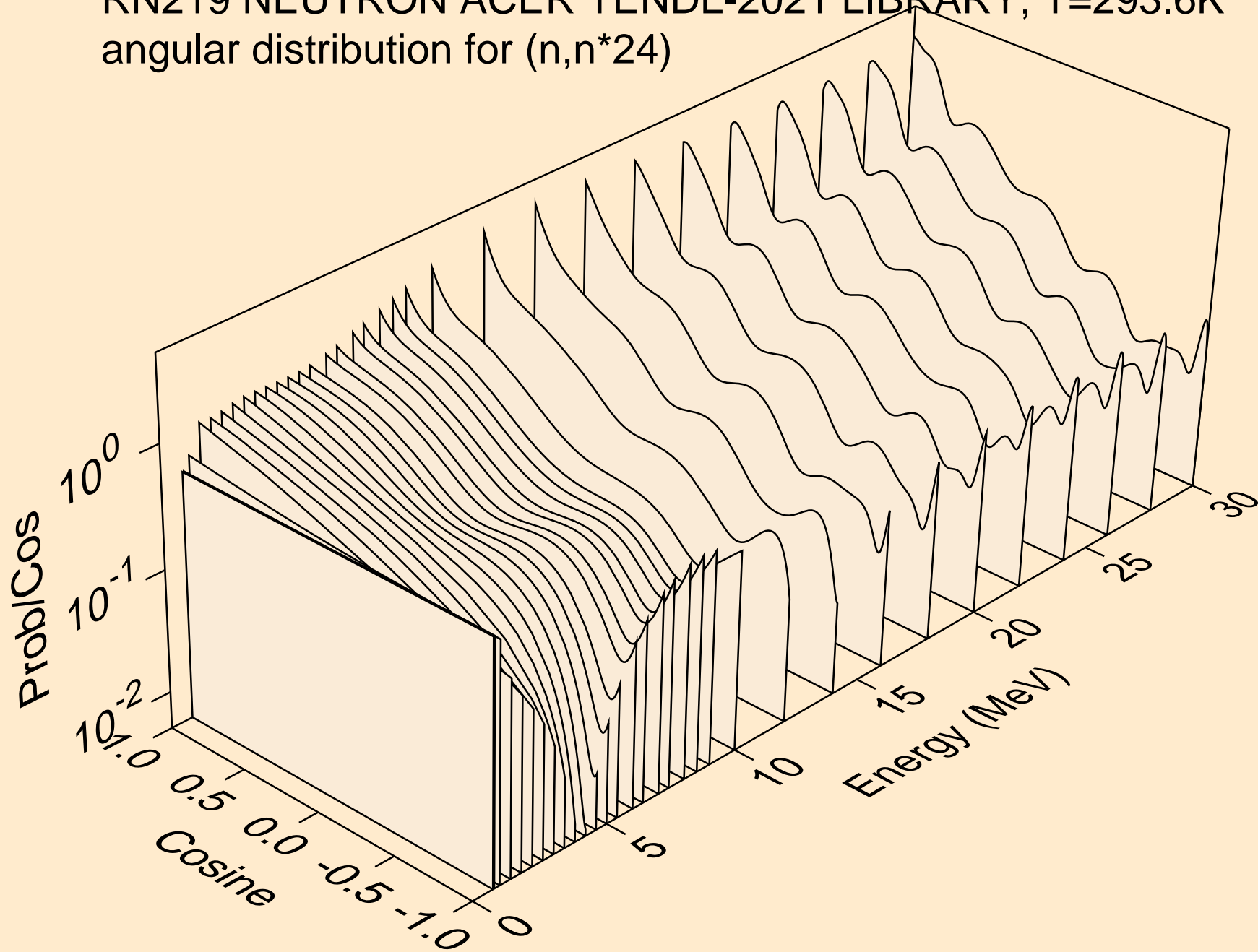
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angular distribution for (n,n\*22)



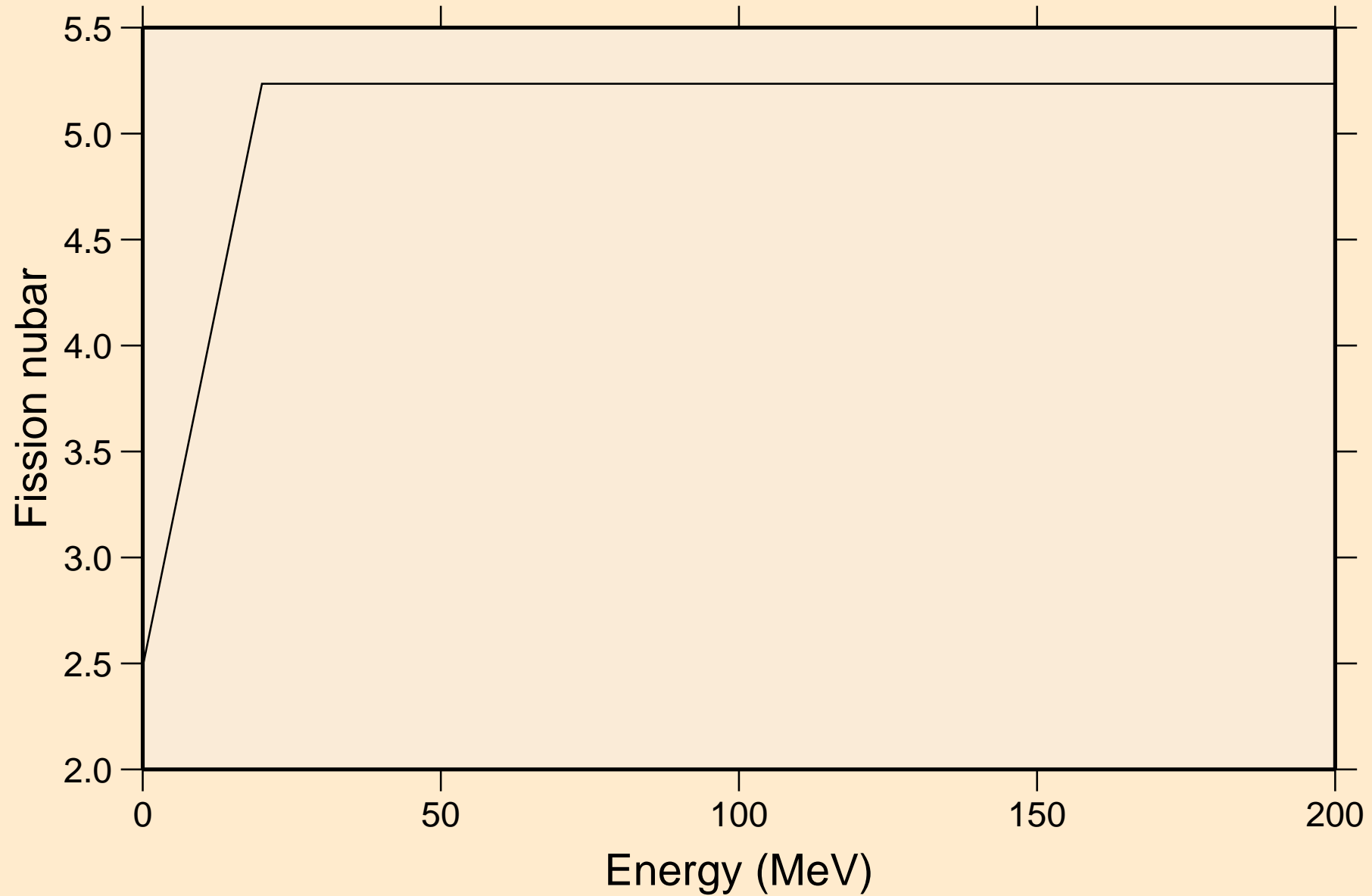
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angular distribution for (n,n\*23)



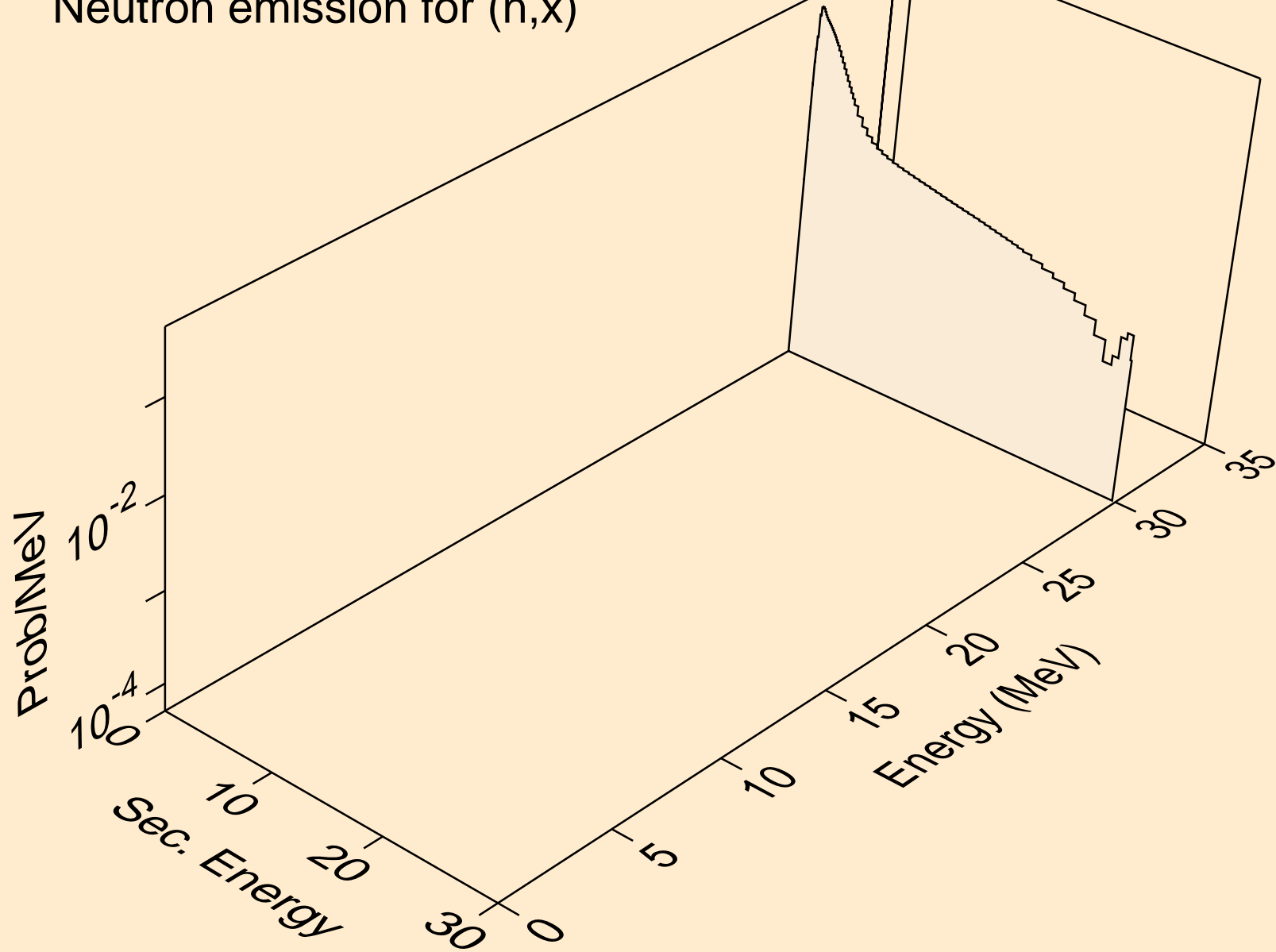
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Total fission nubar

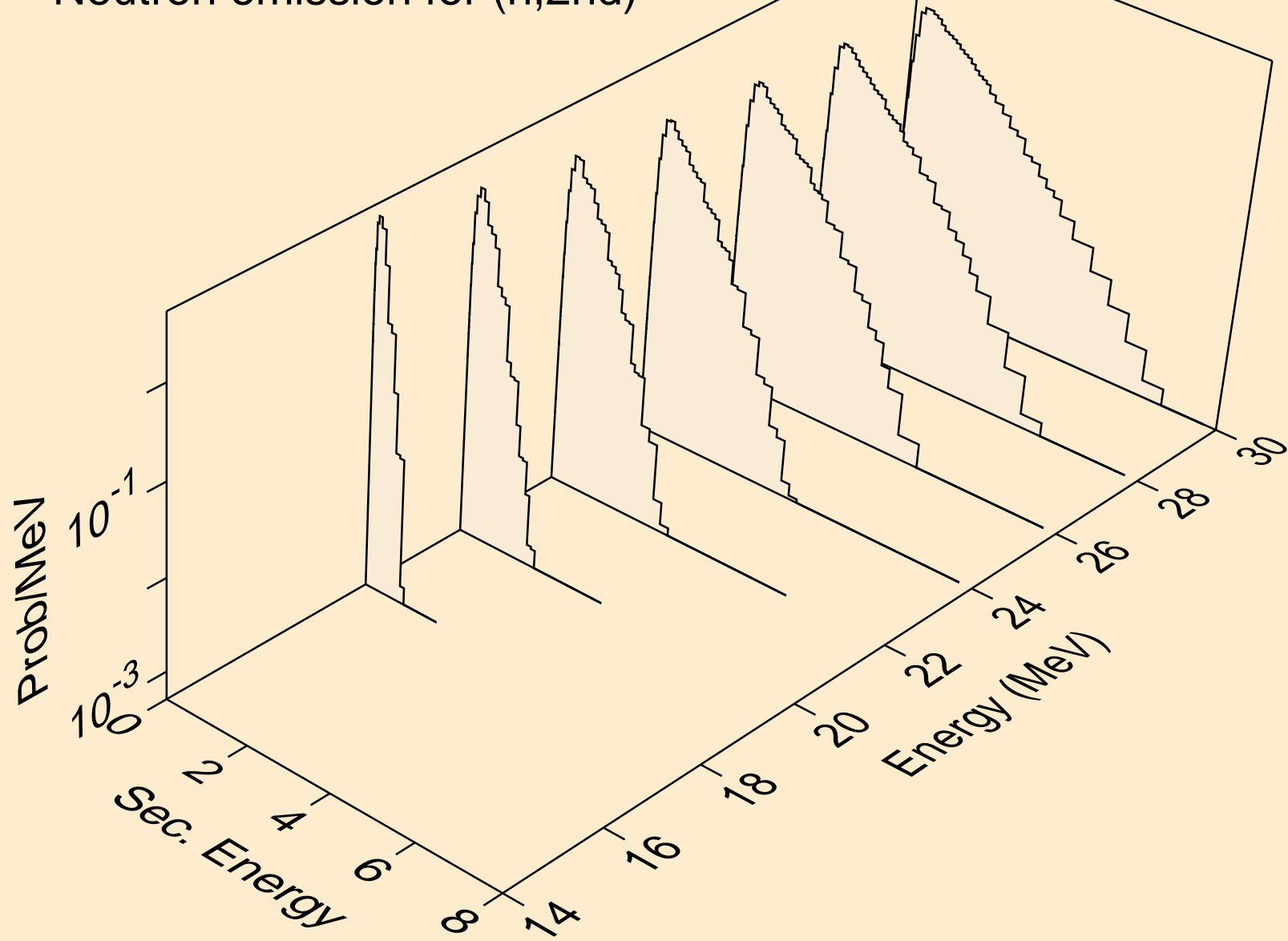


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)

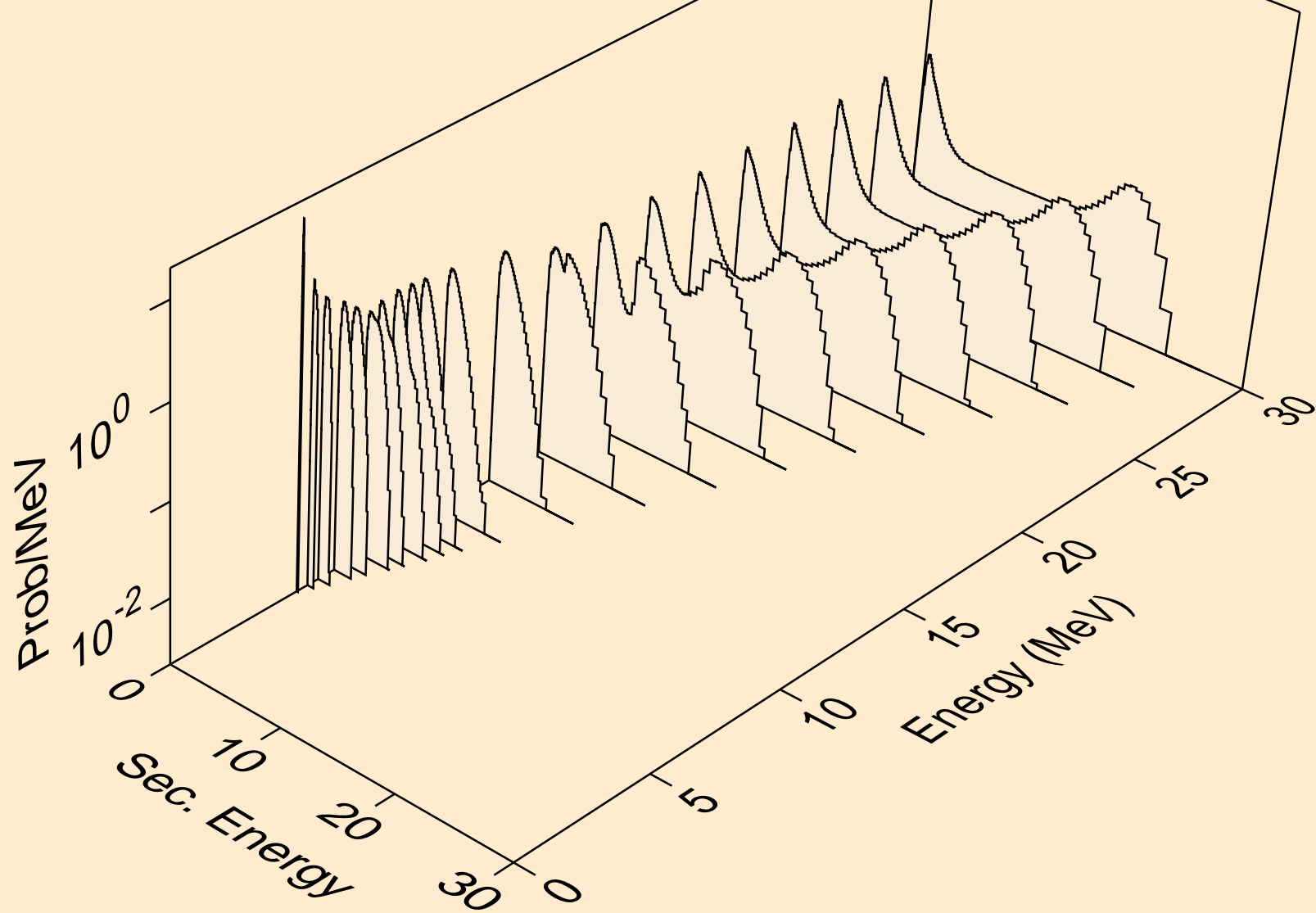




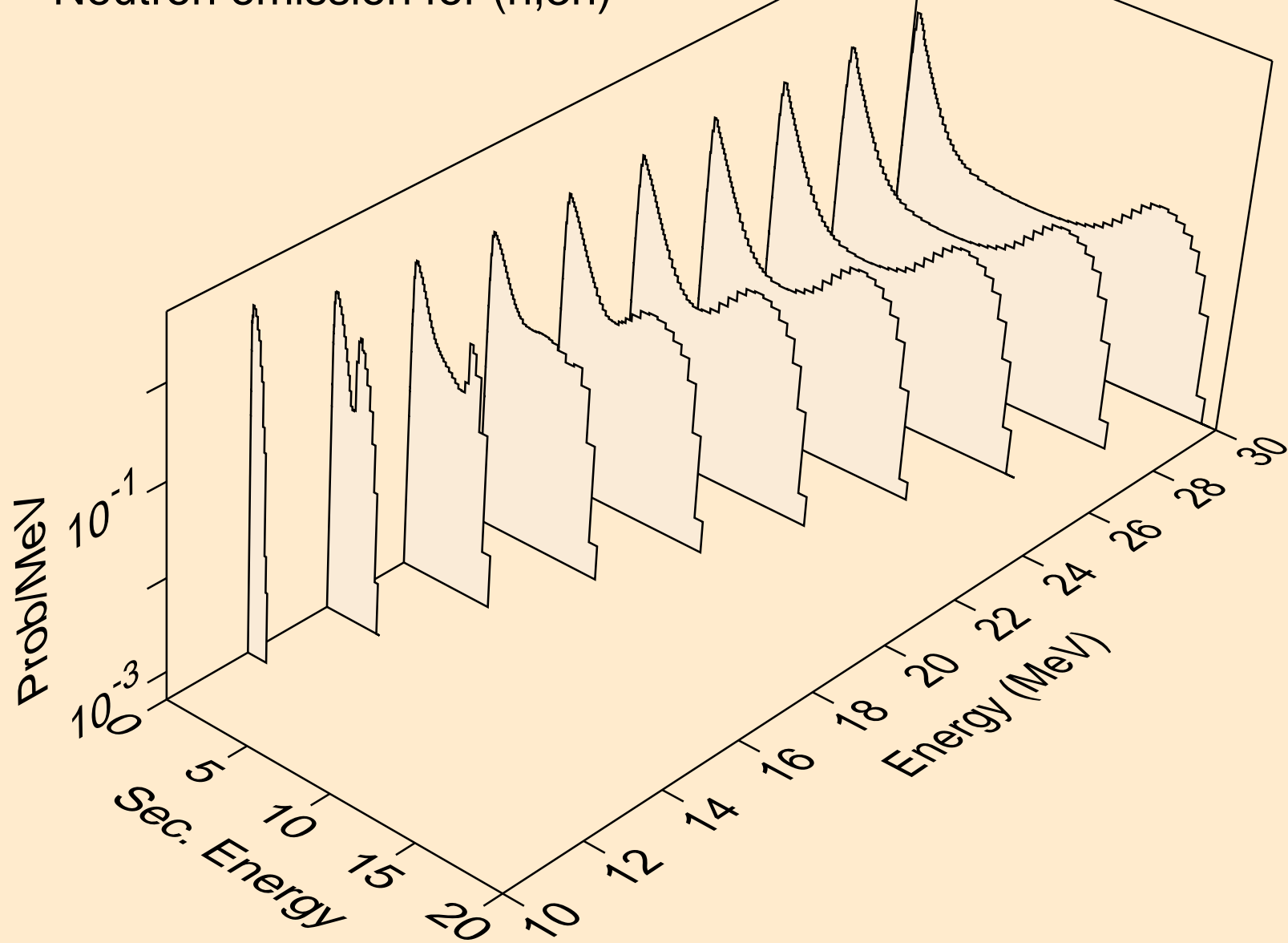
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



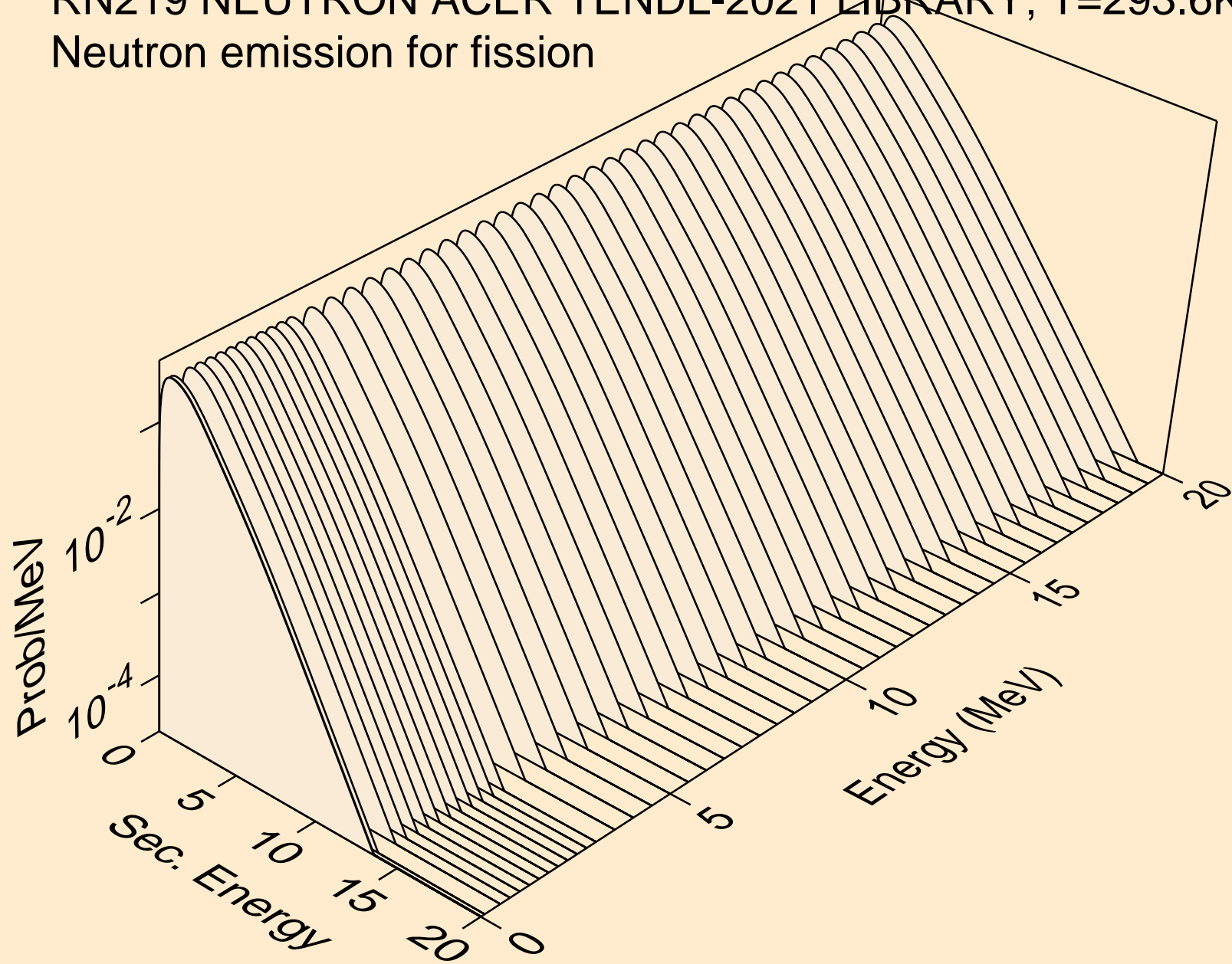
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



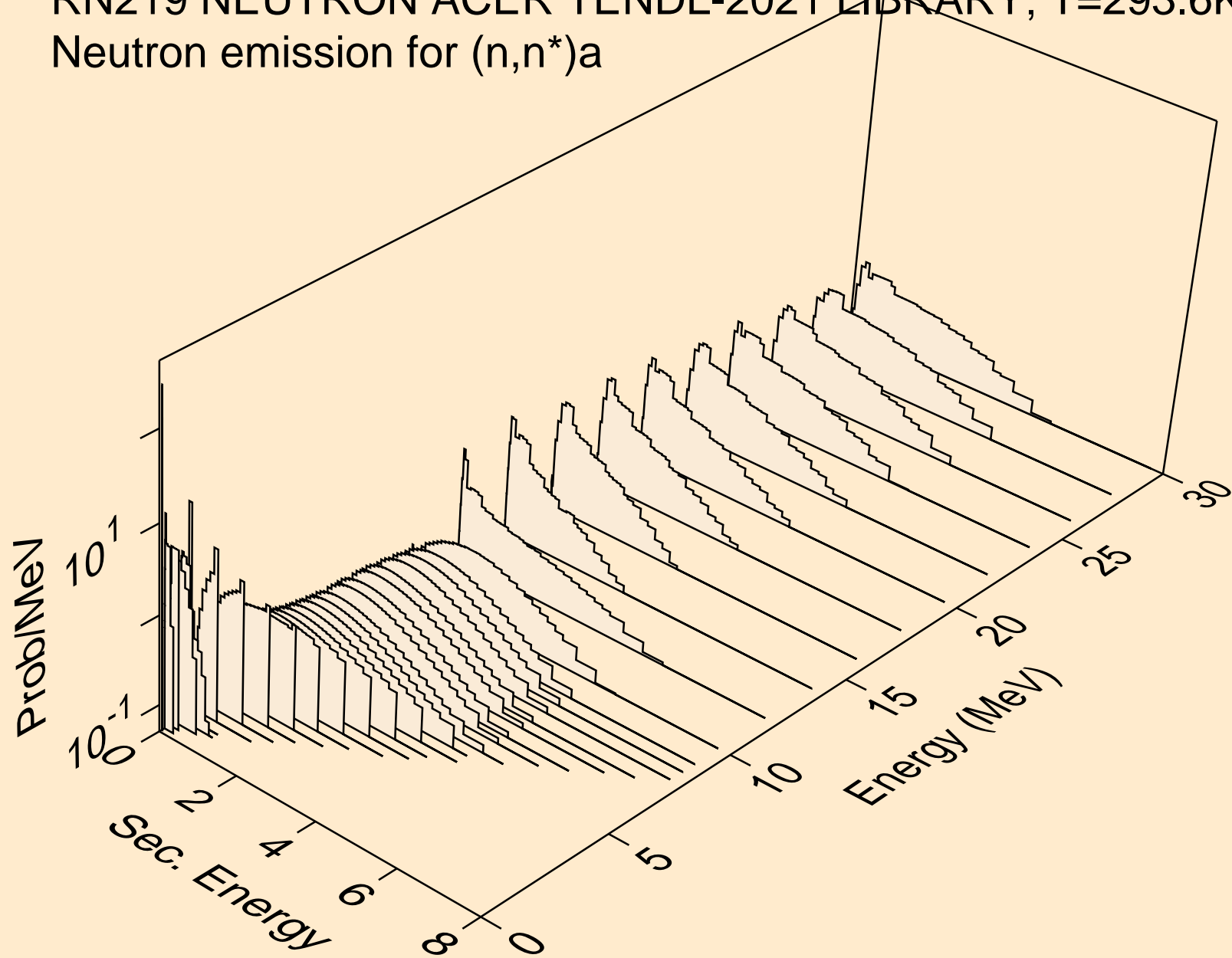
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



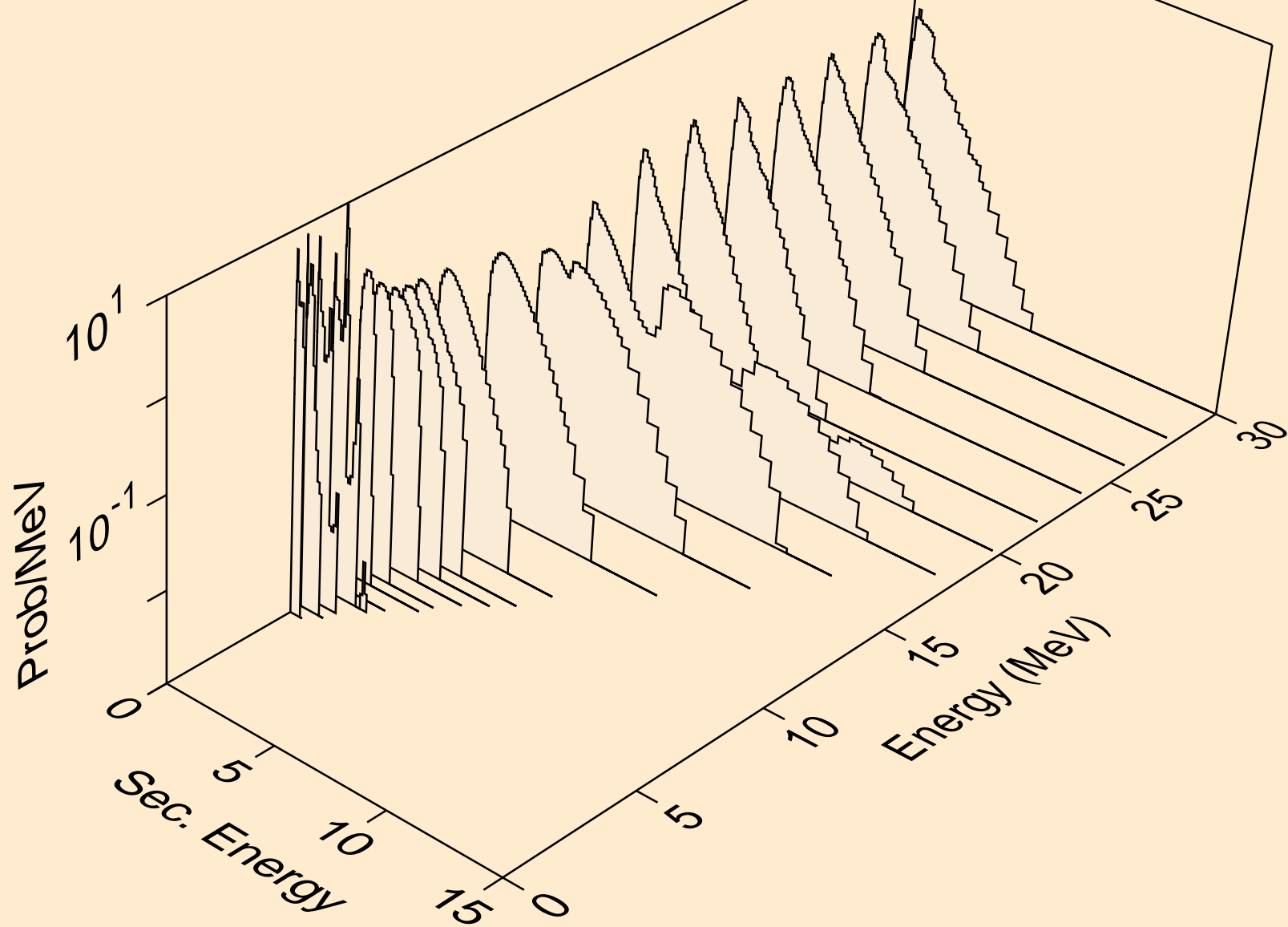
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for fission



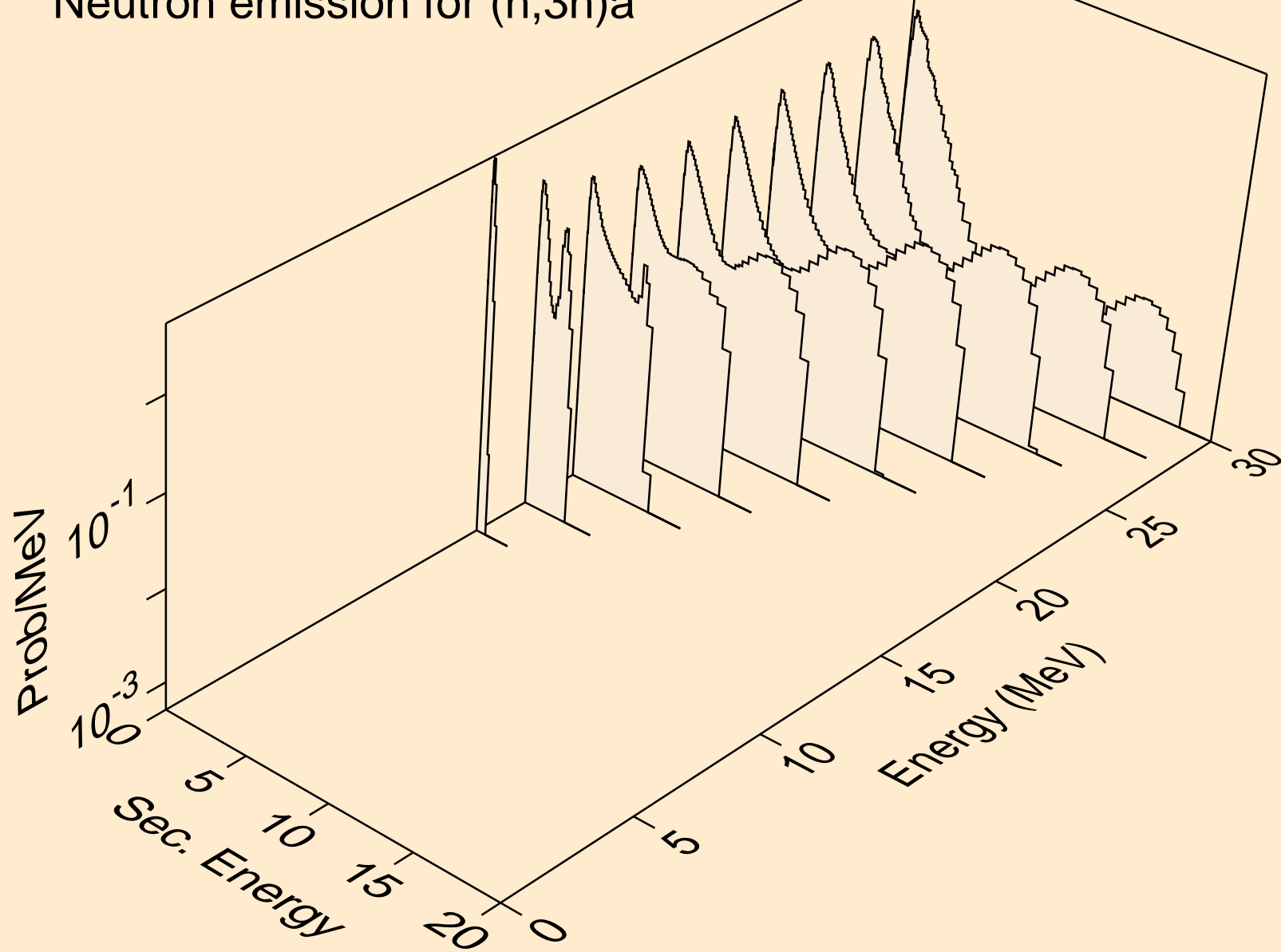
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



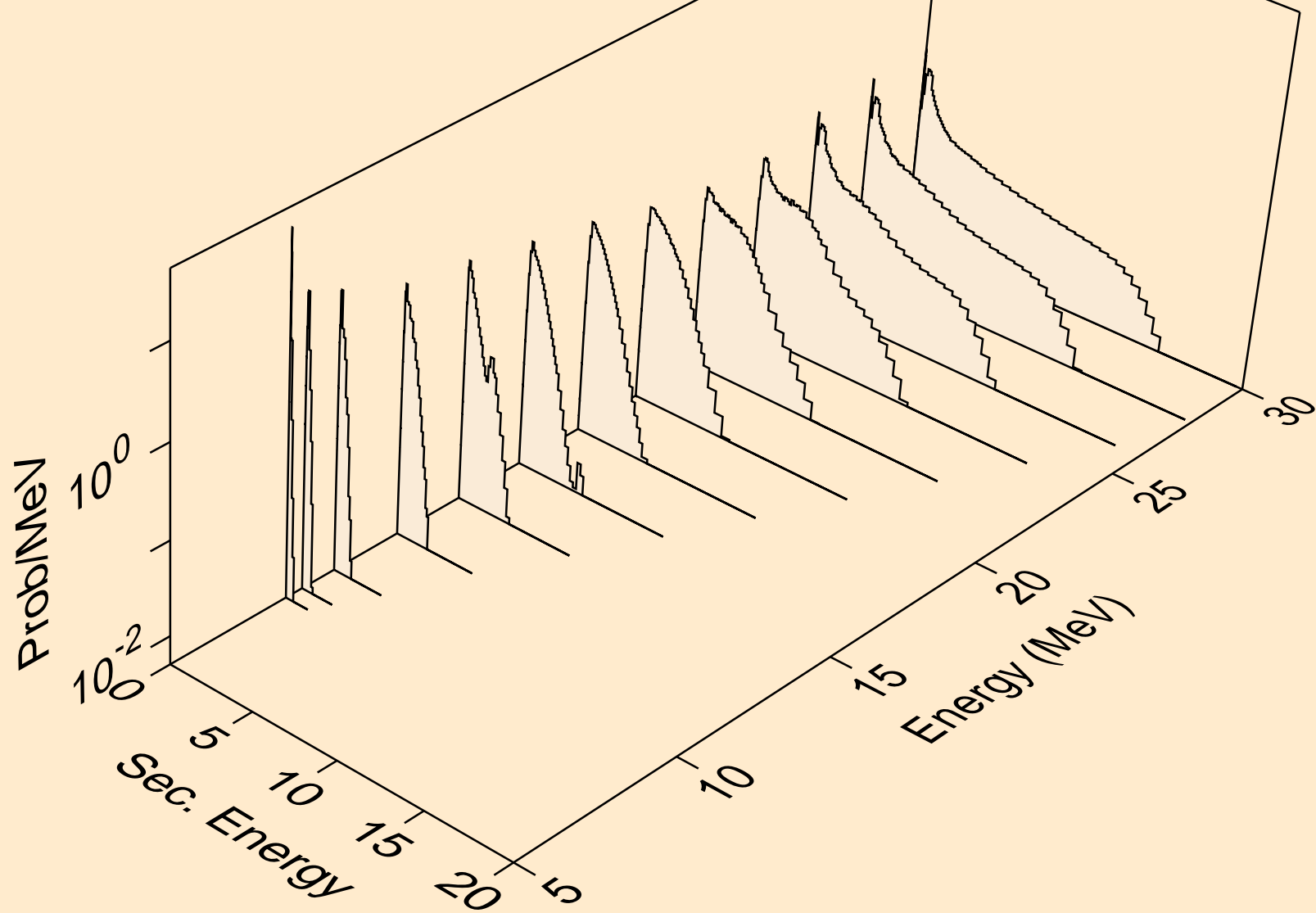
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a

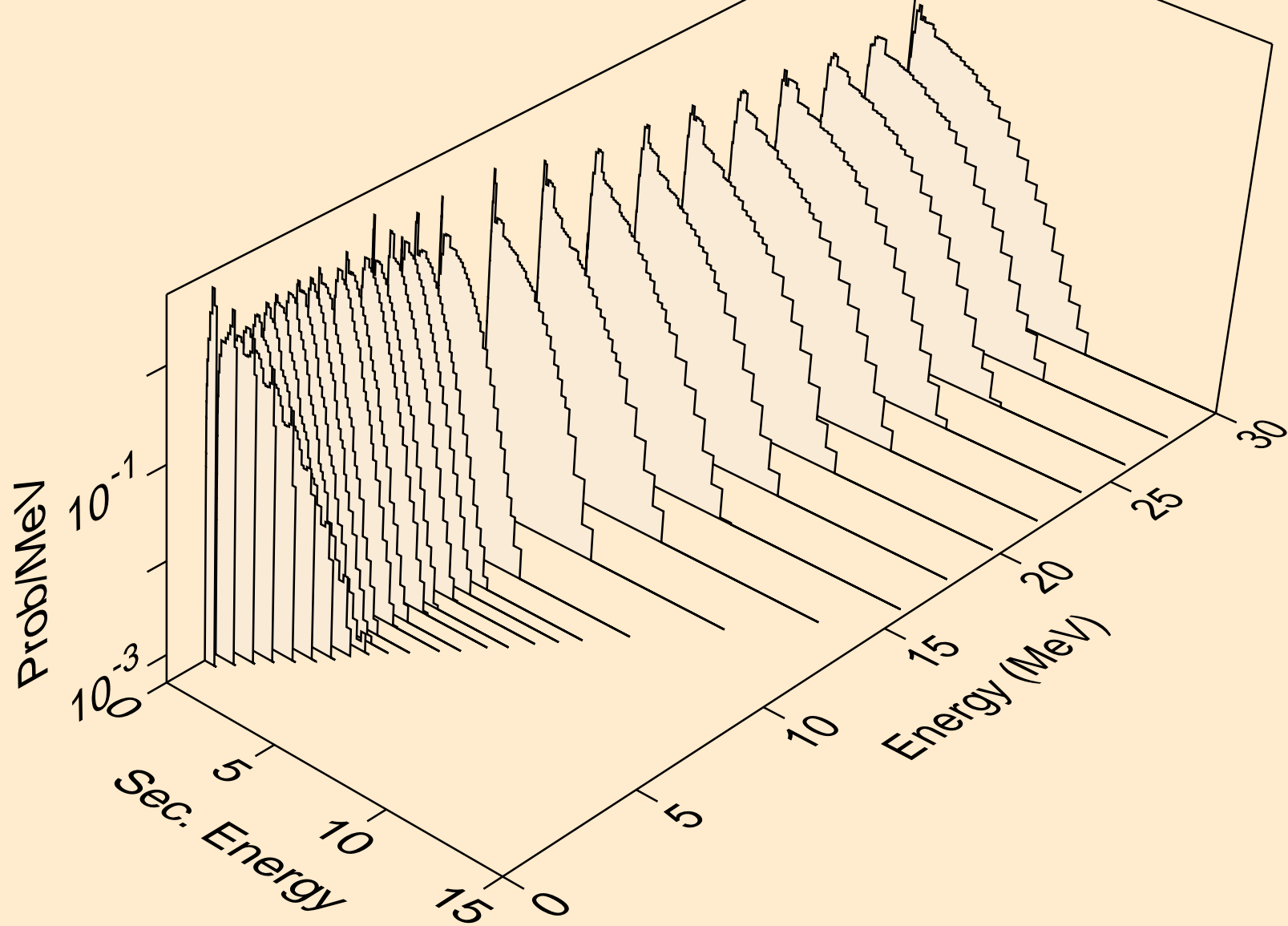


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p

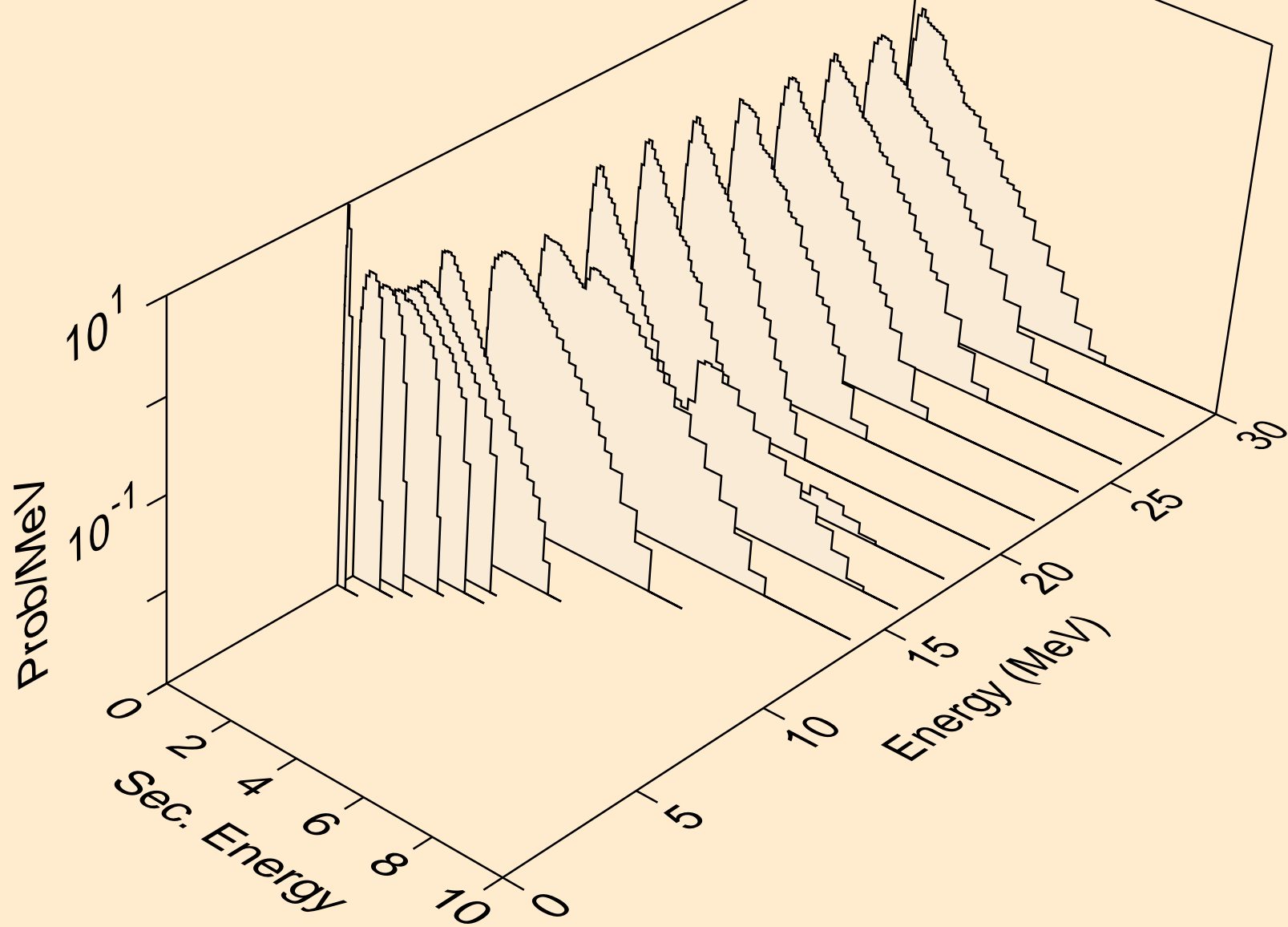




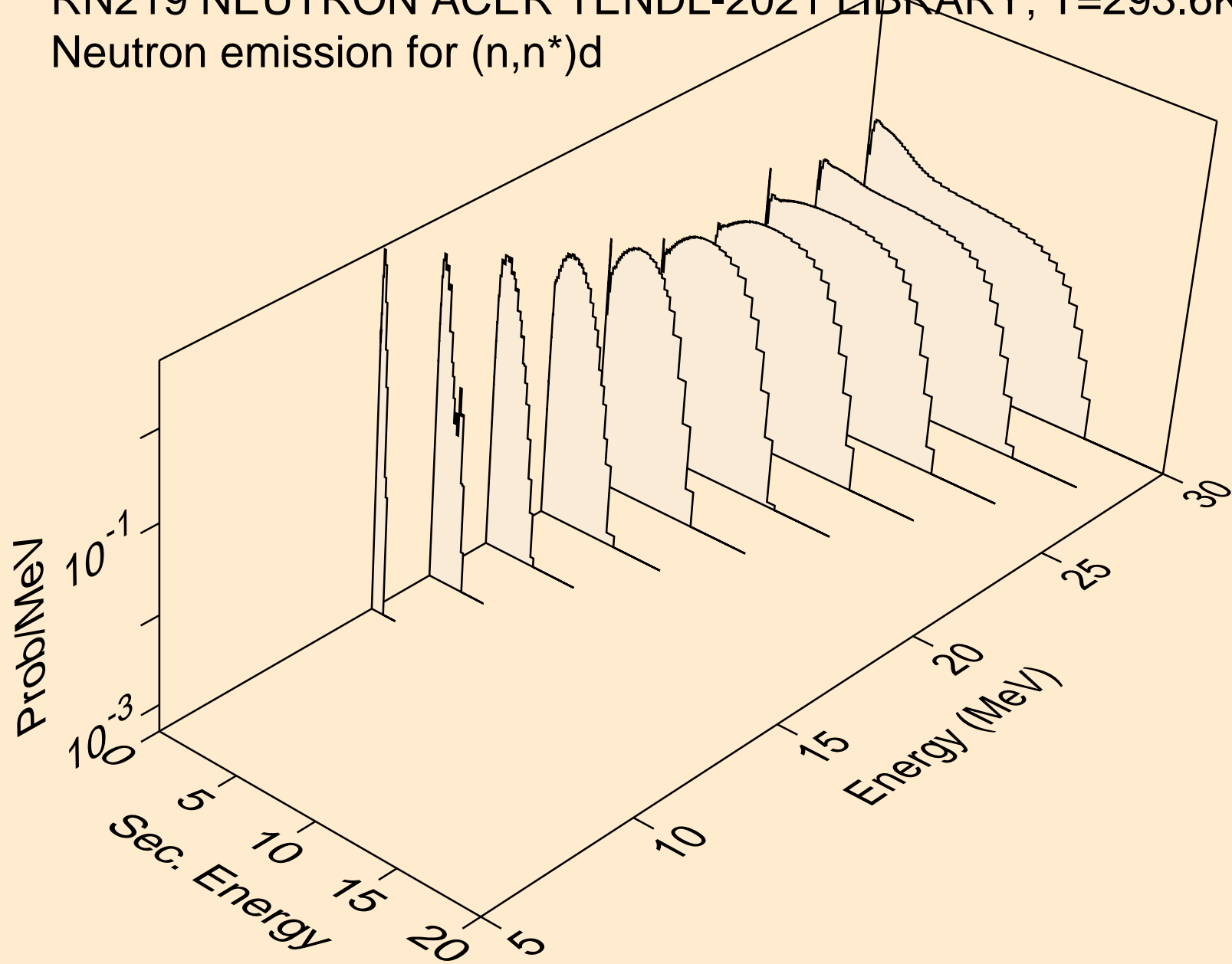
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



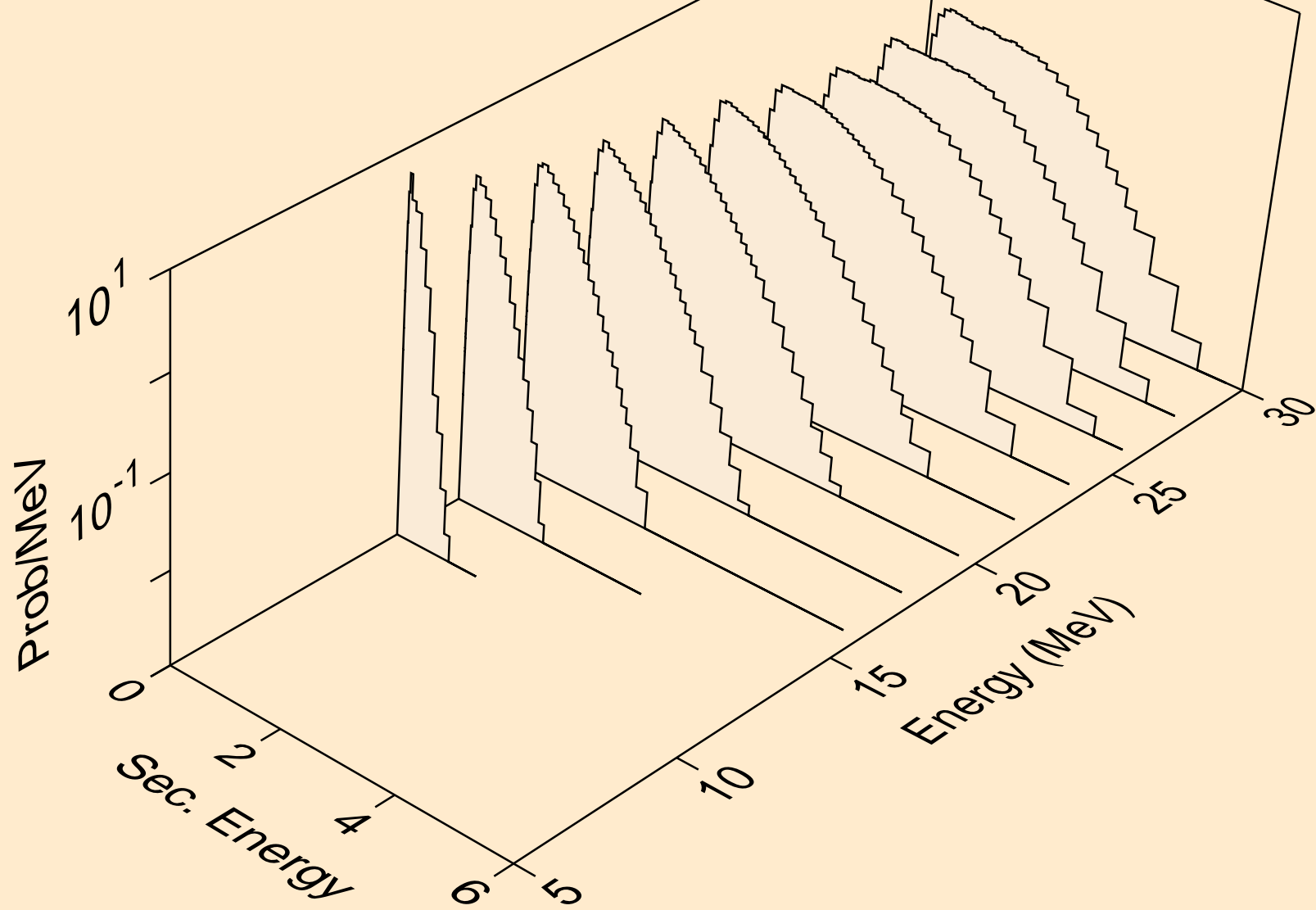
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)2a



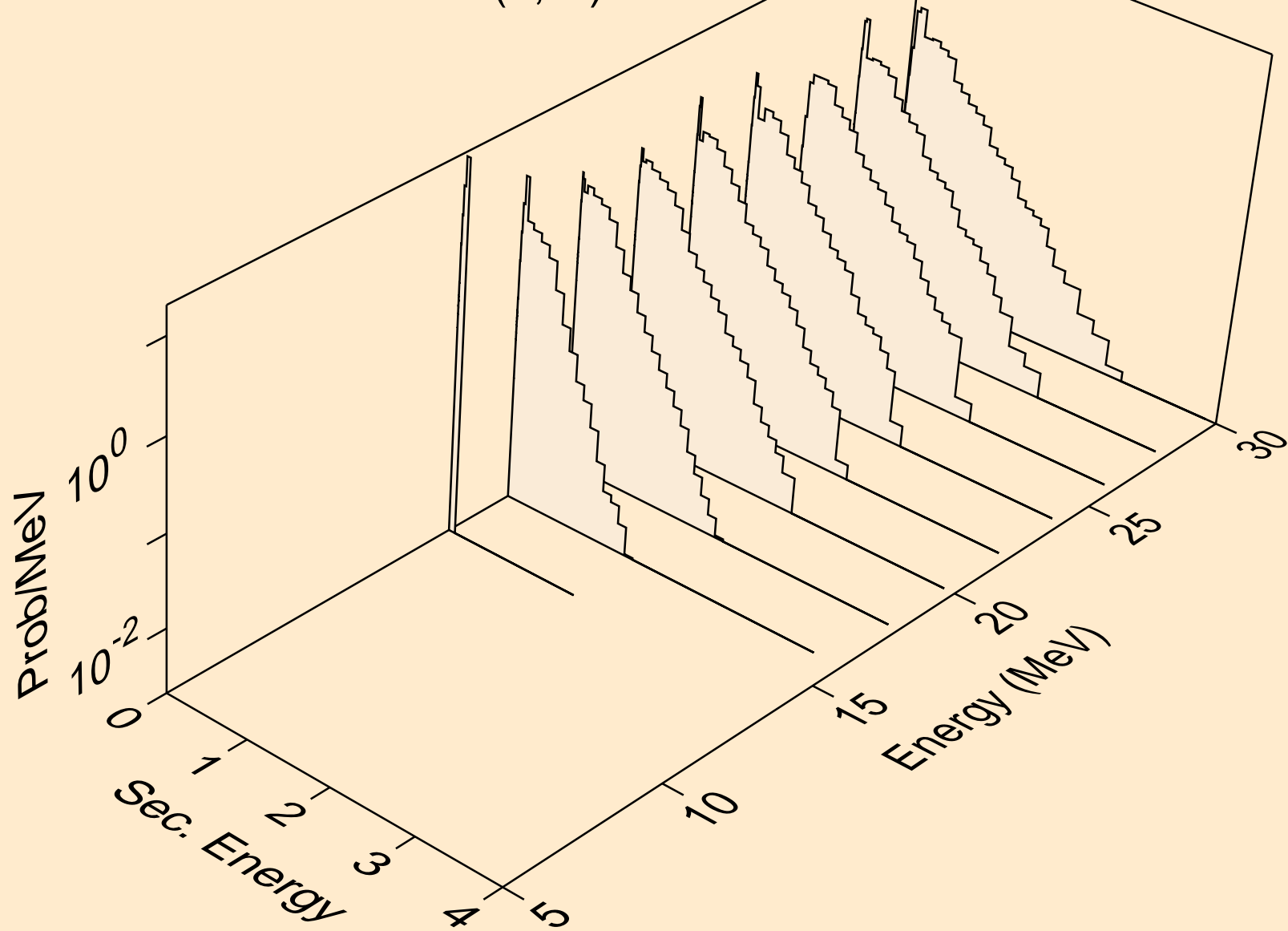
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



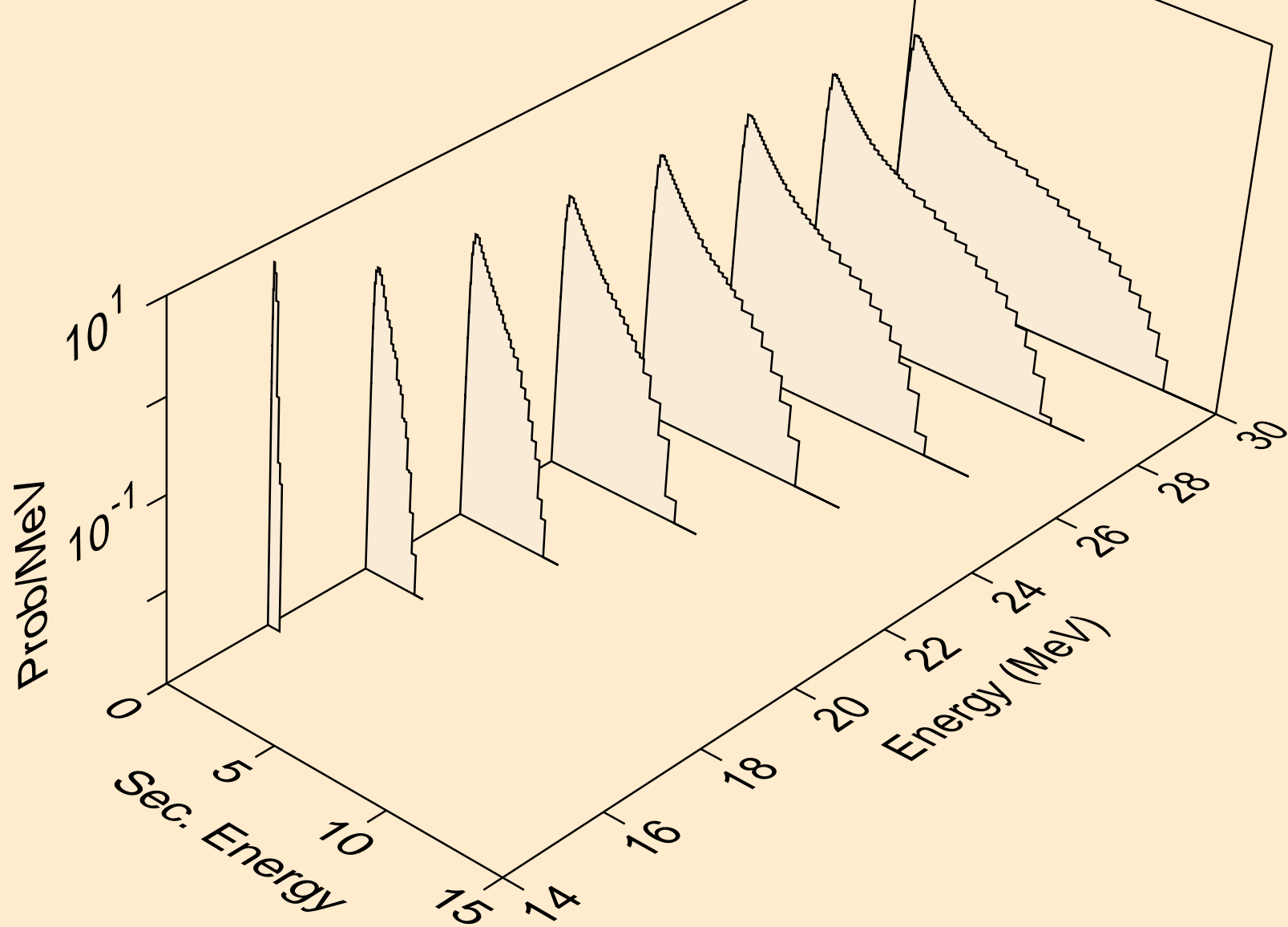
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



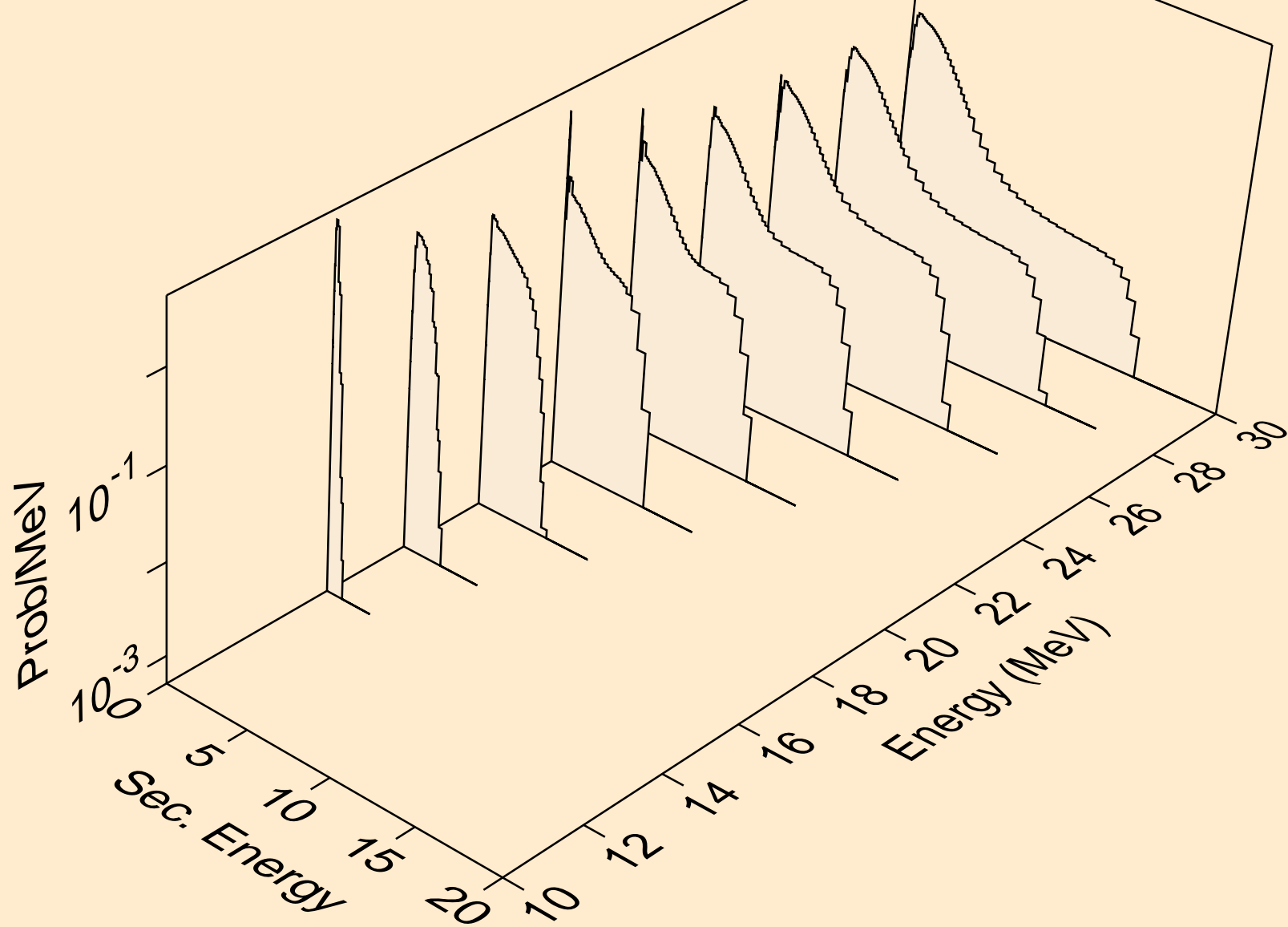
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



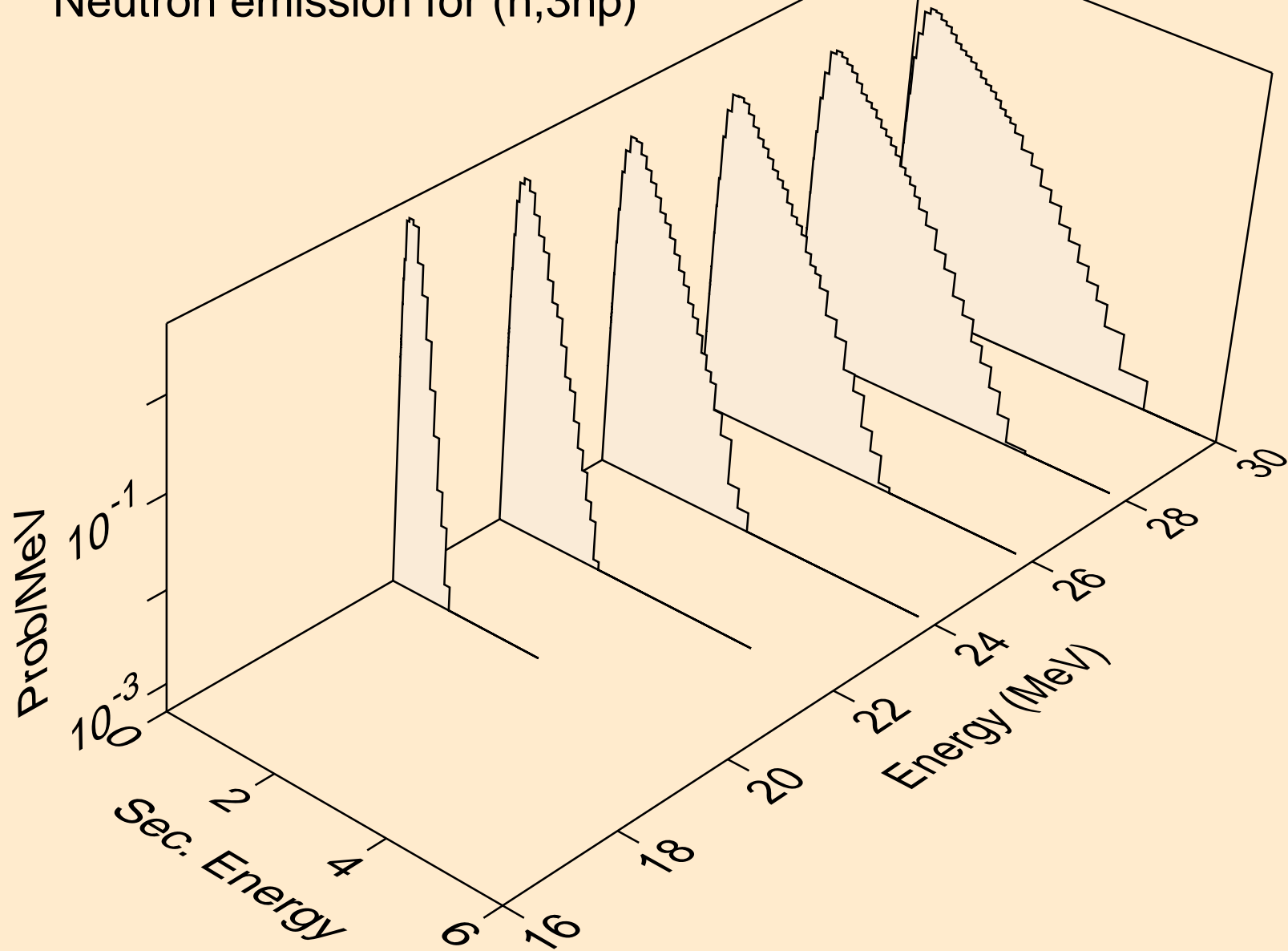
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)

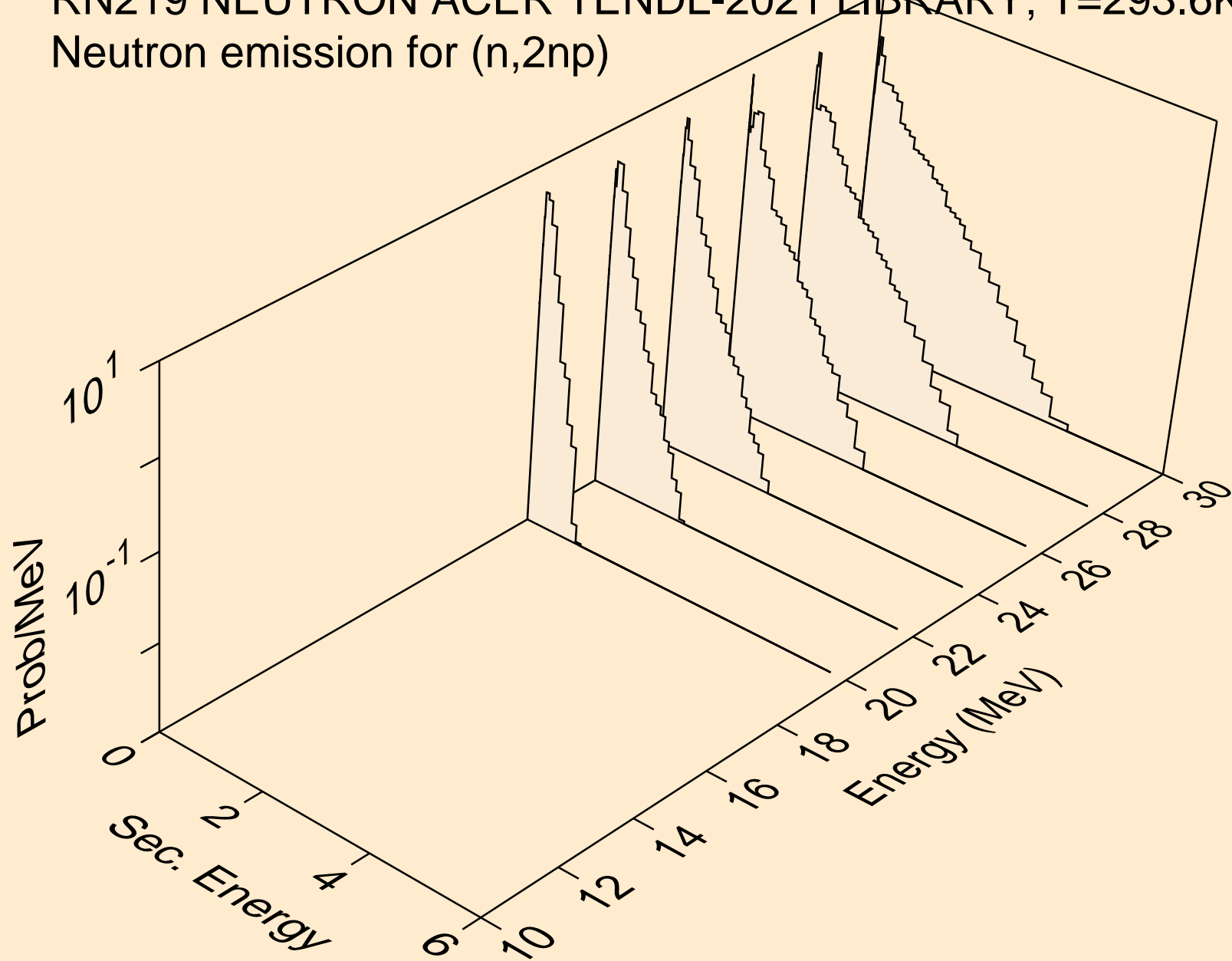


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)

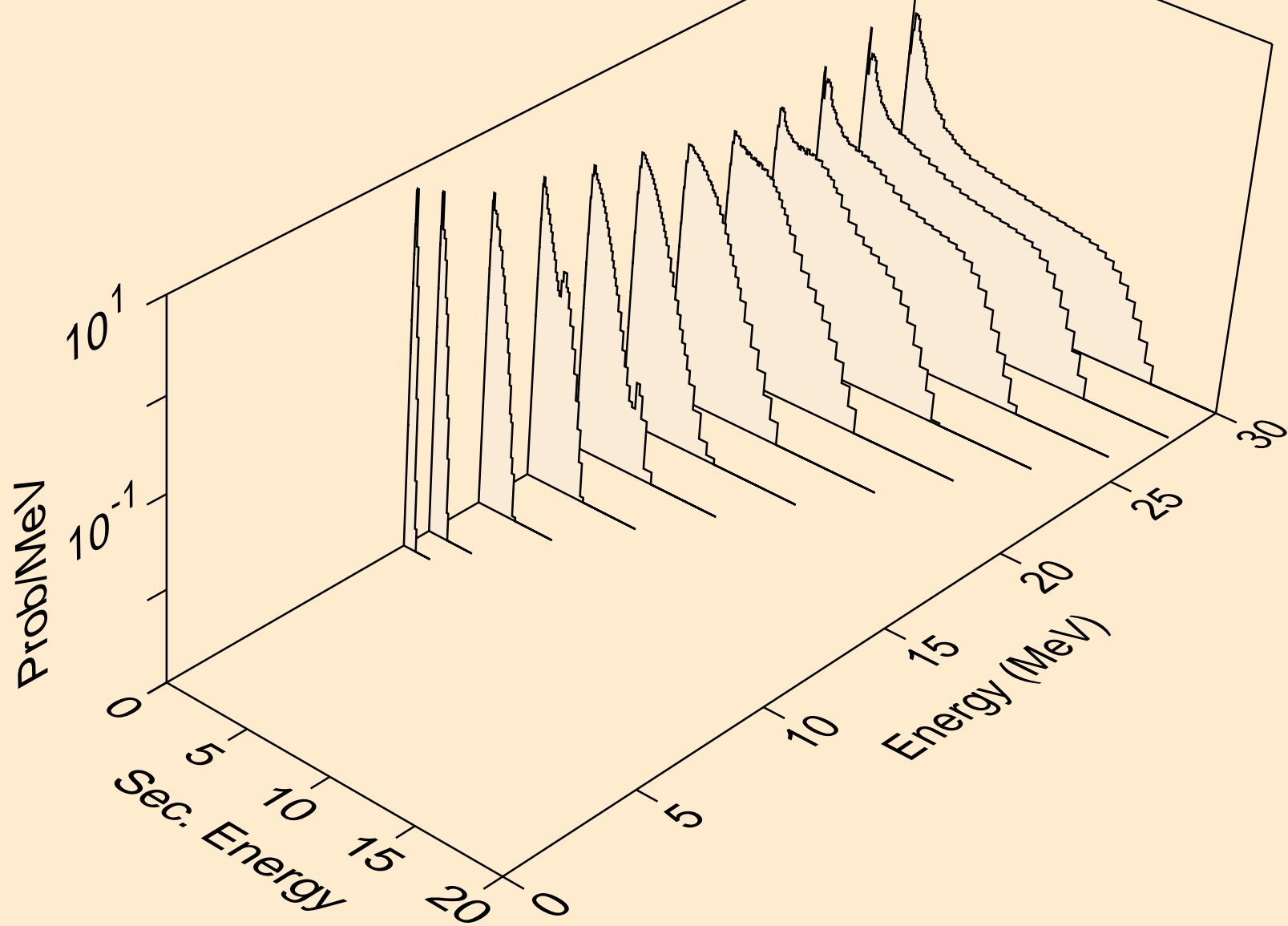




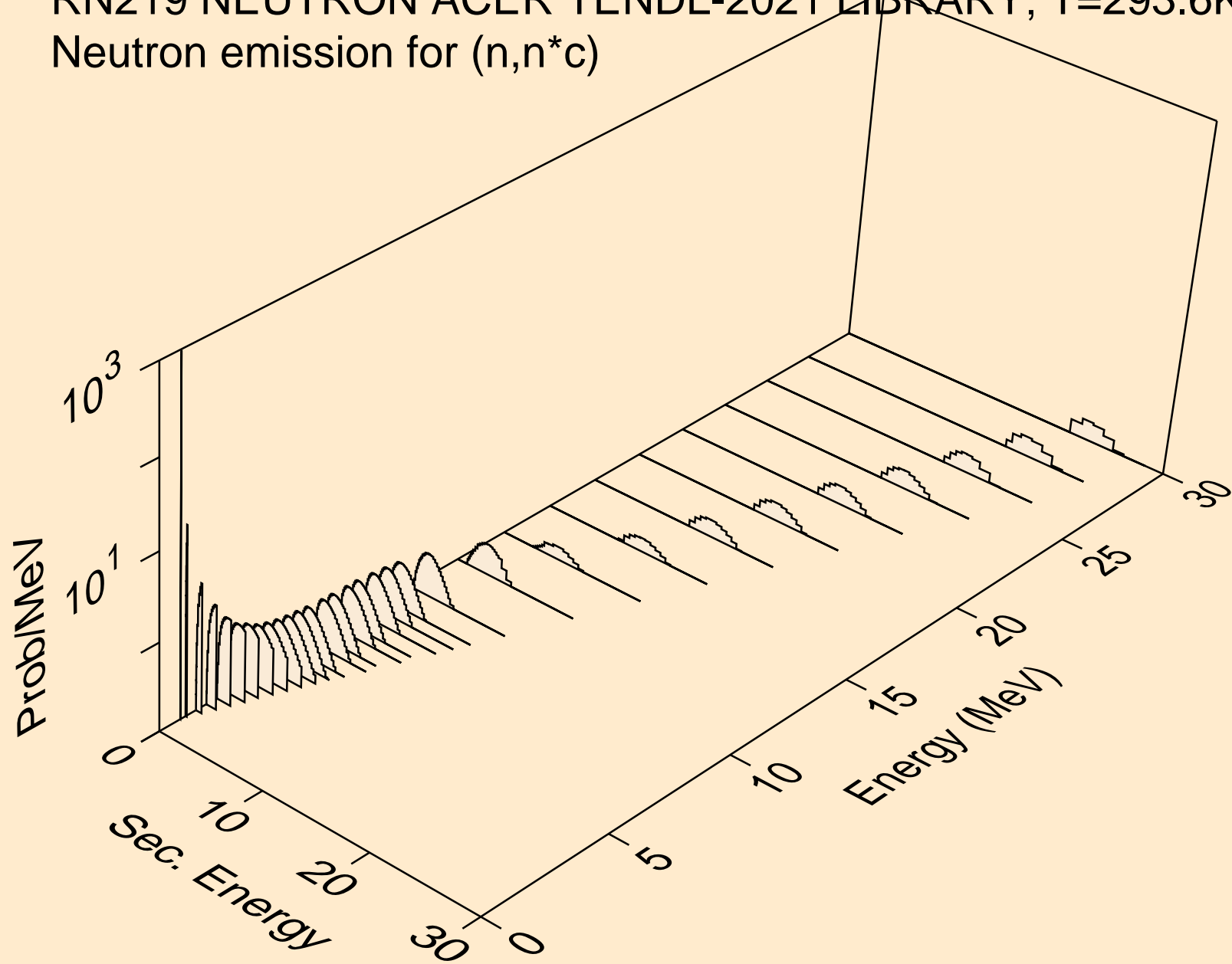
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)

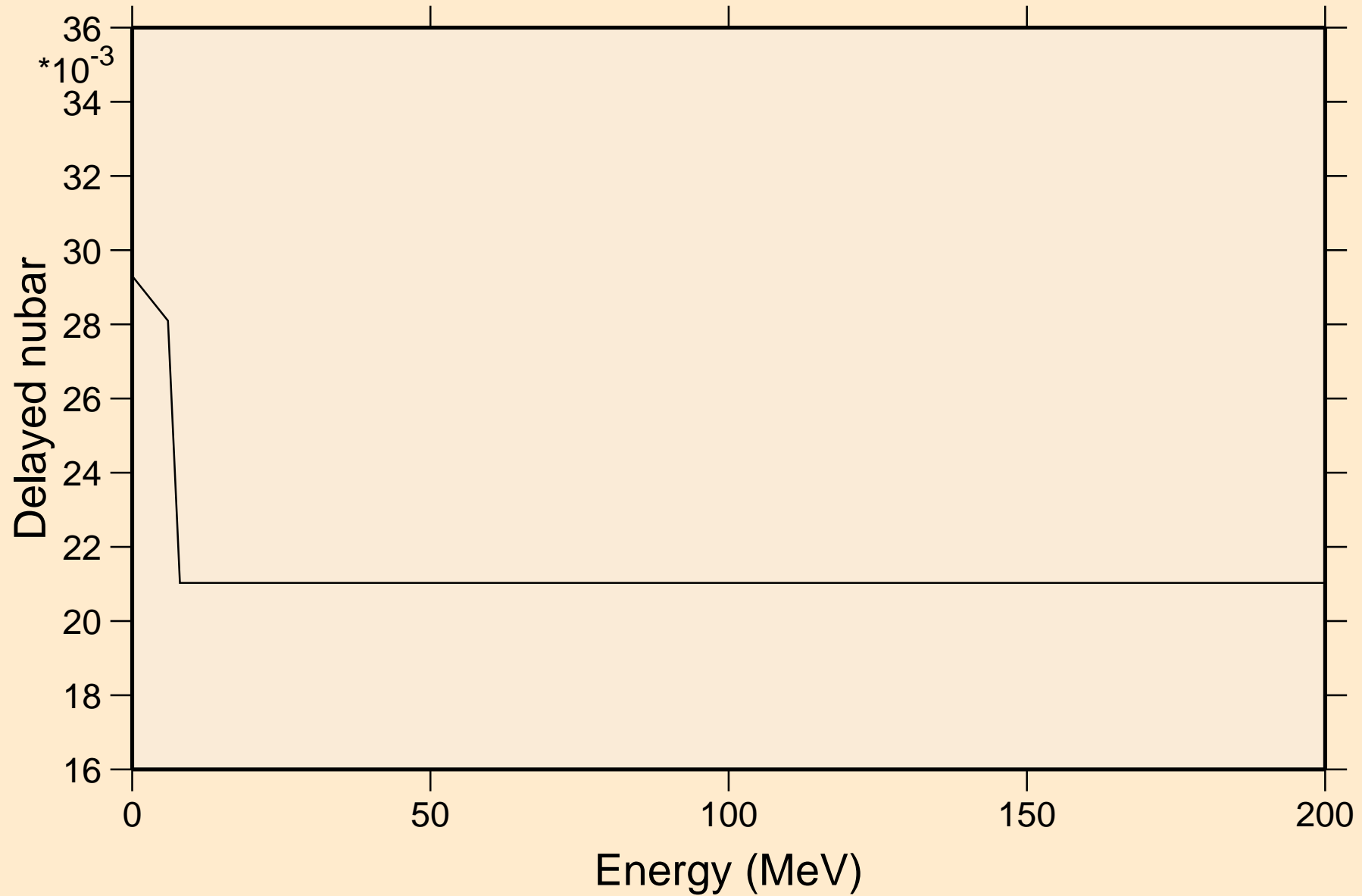


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



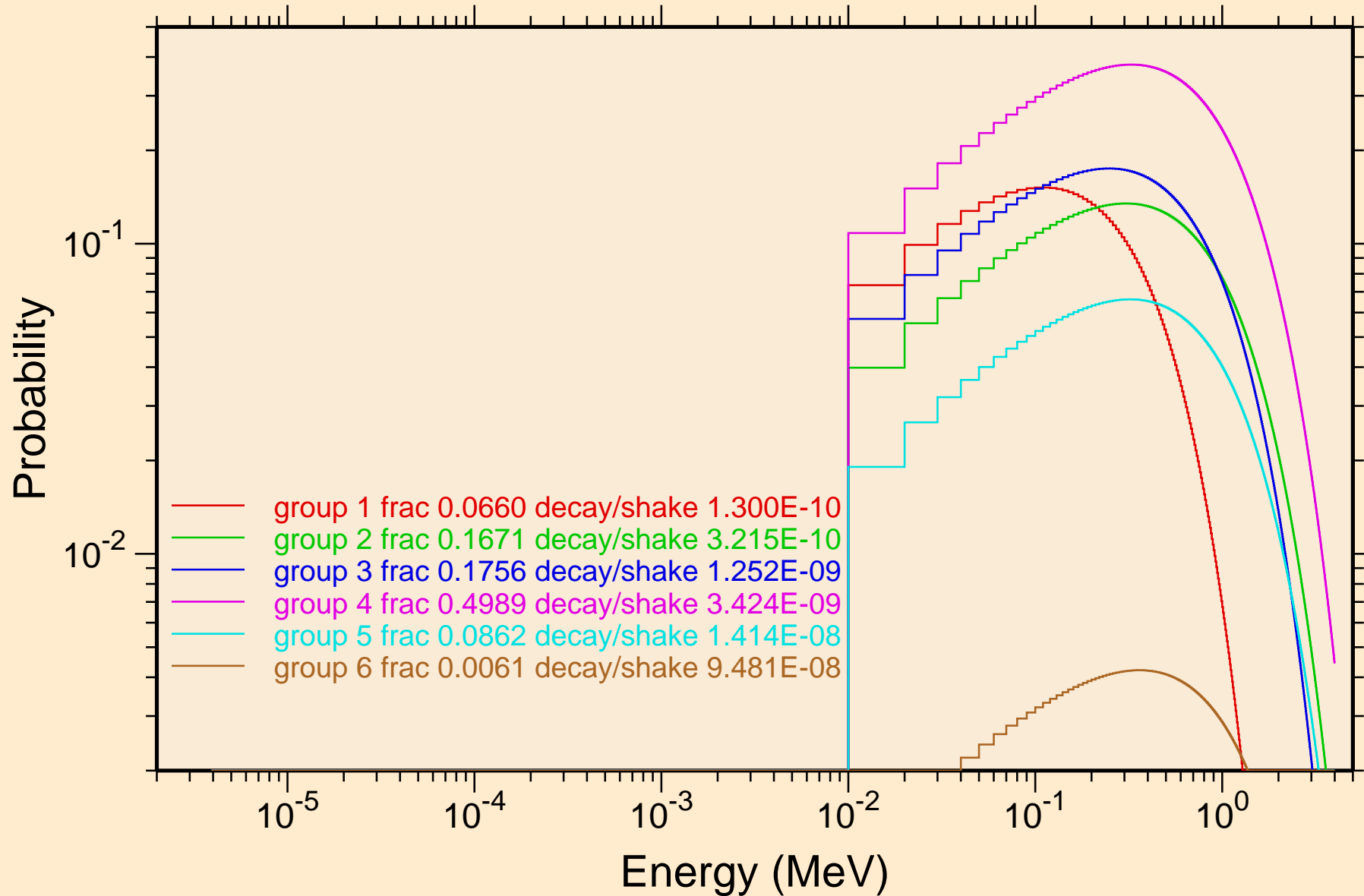
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

Delayed nubar

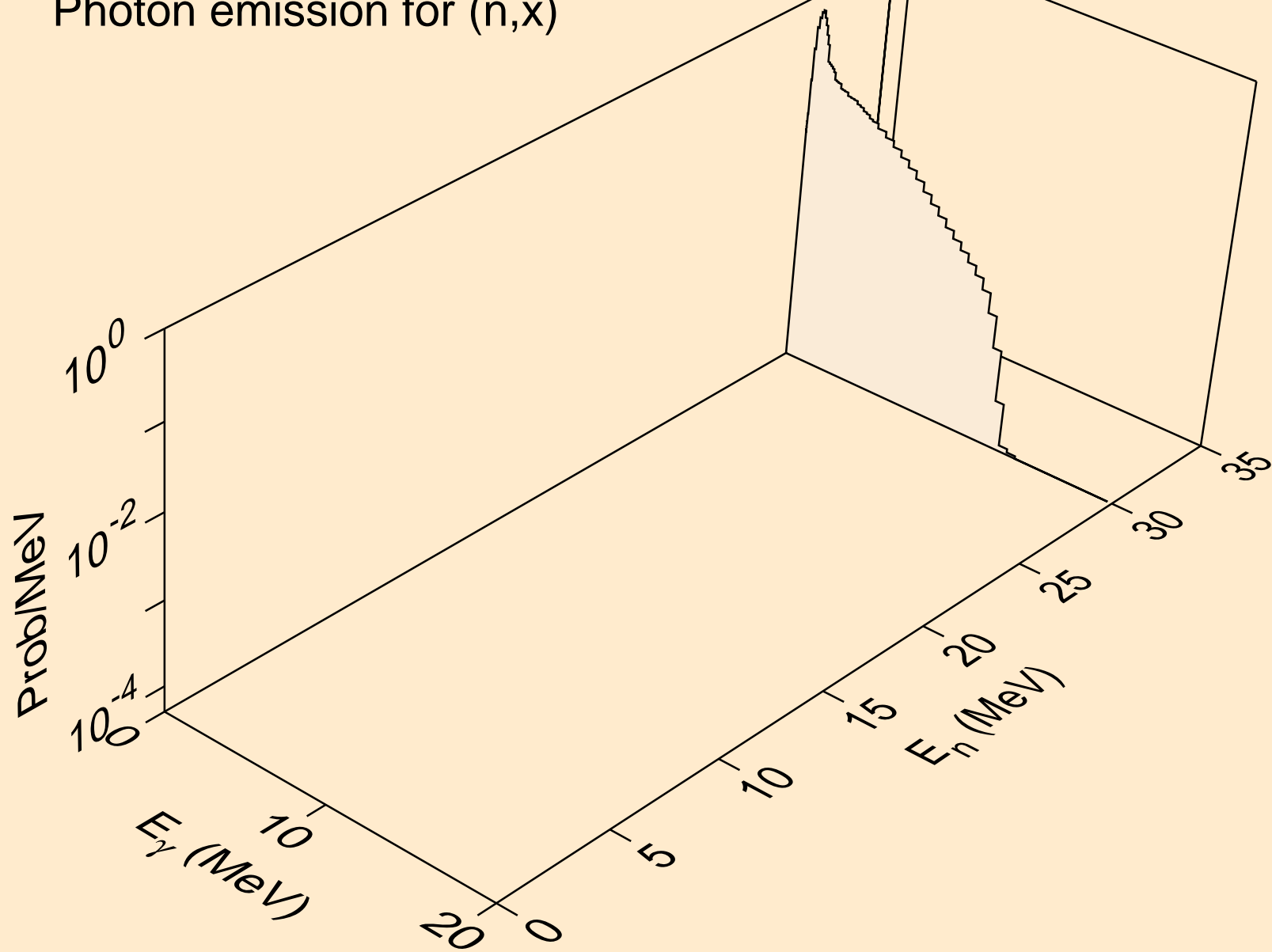


# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

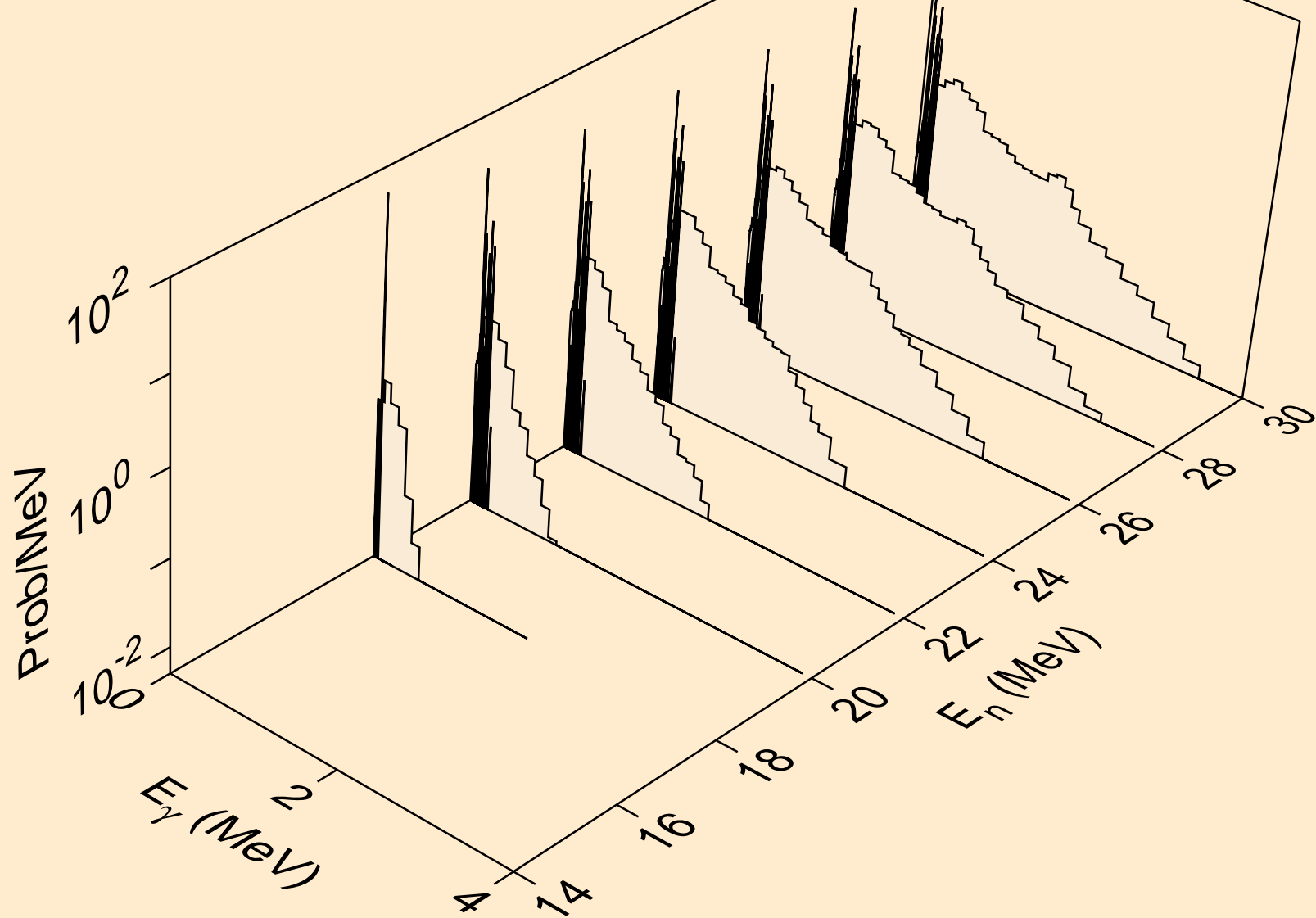
## Delayed neutron spectra



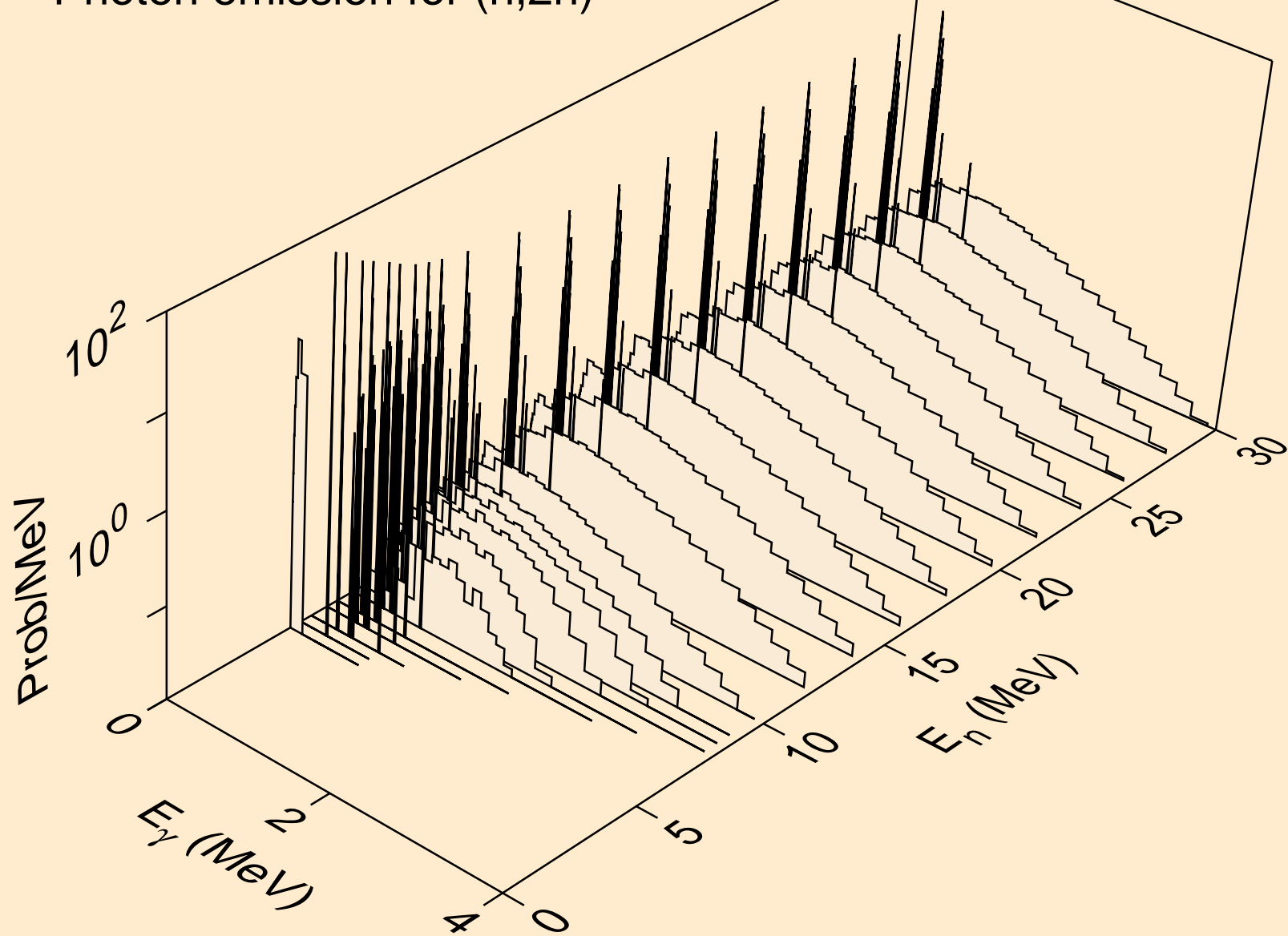
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)

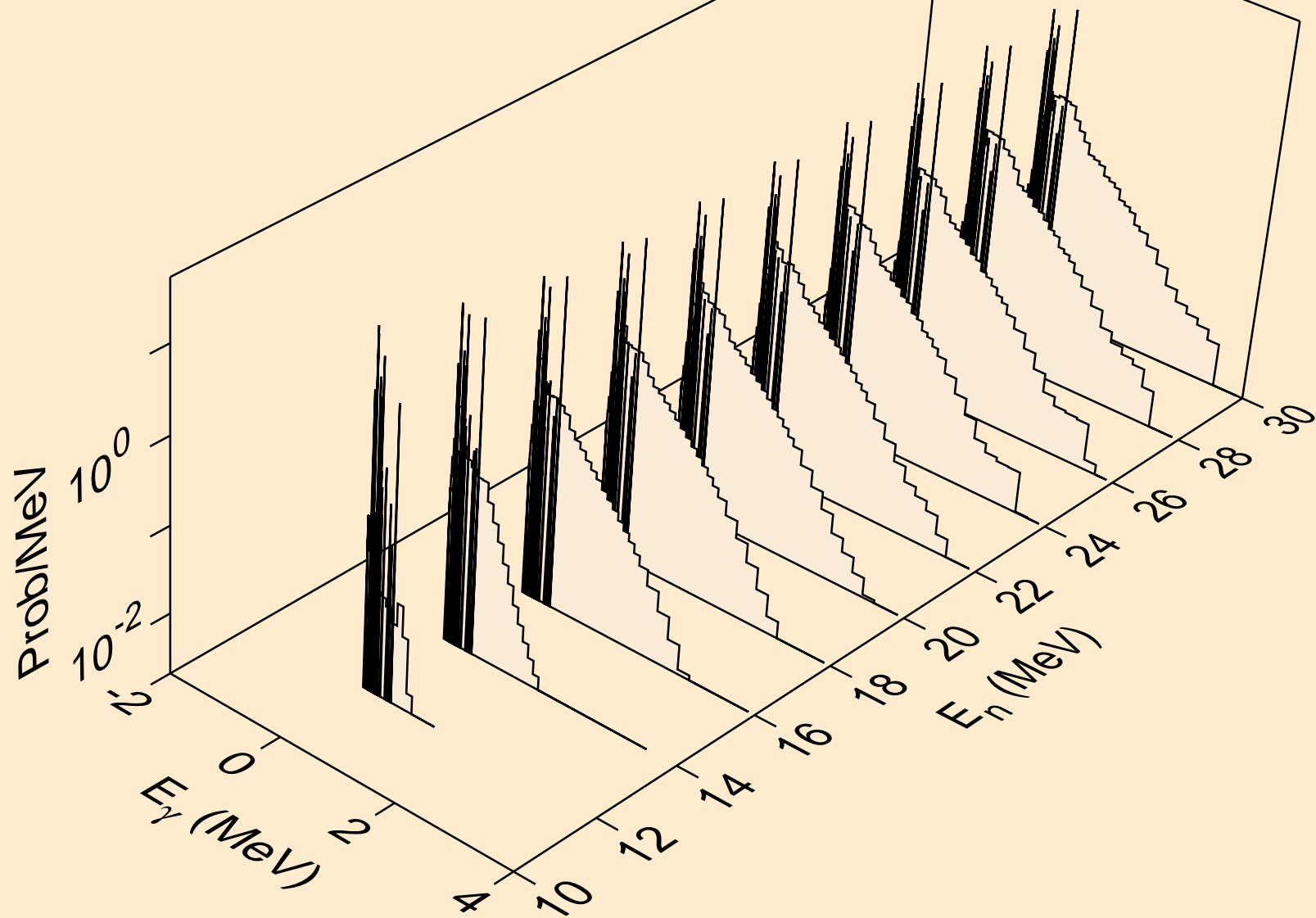


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

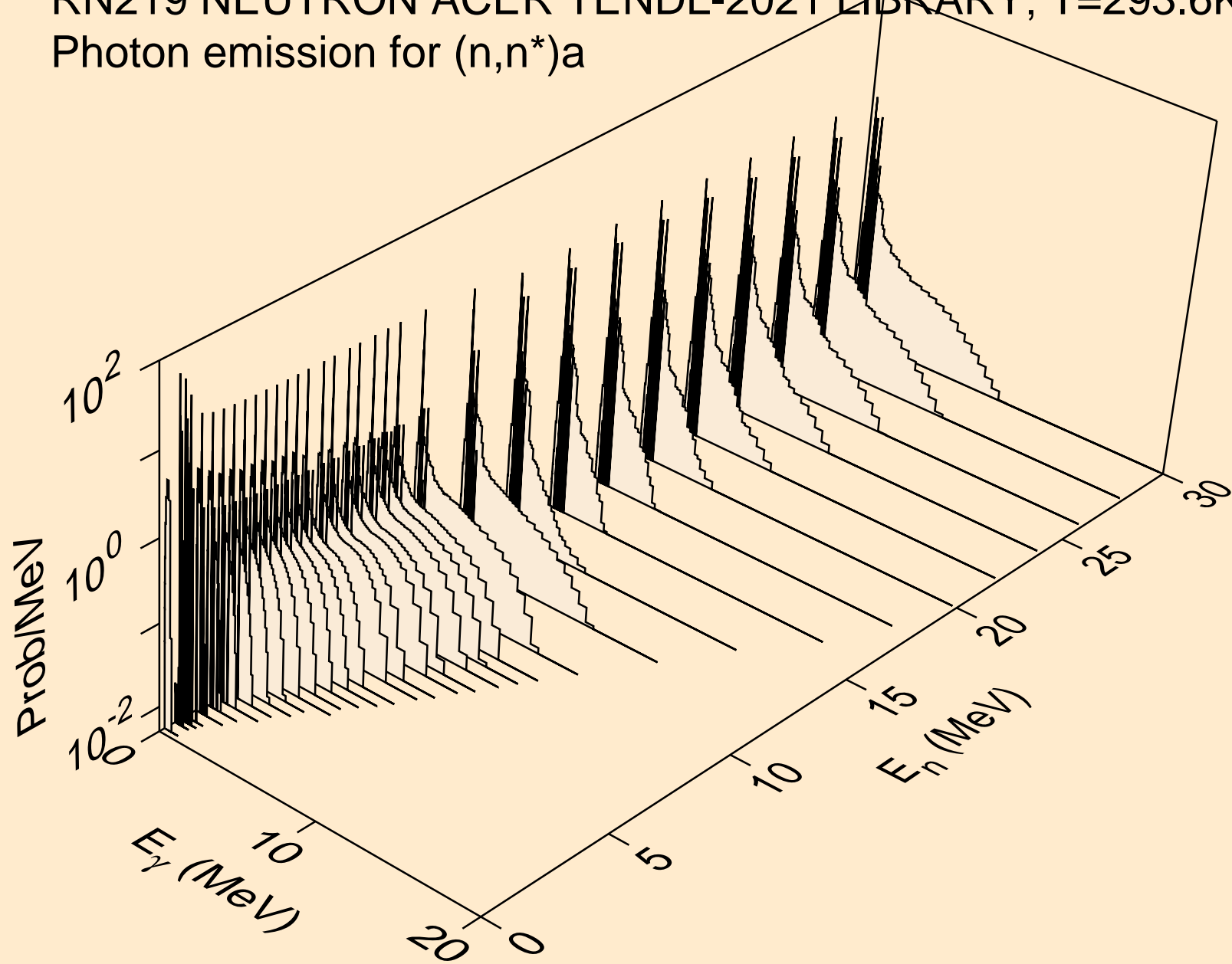




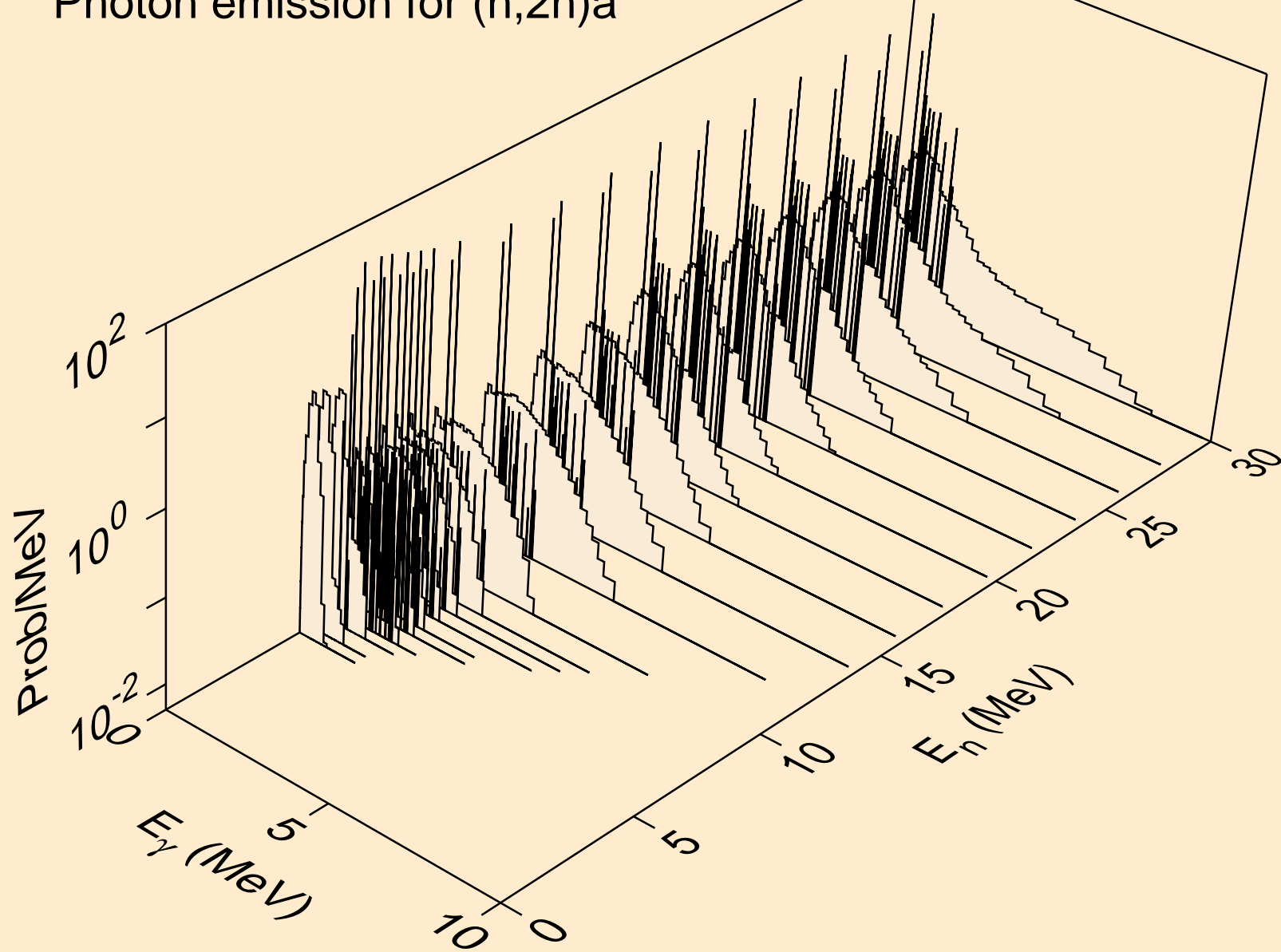
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Photon emission for (n,3n)



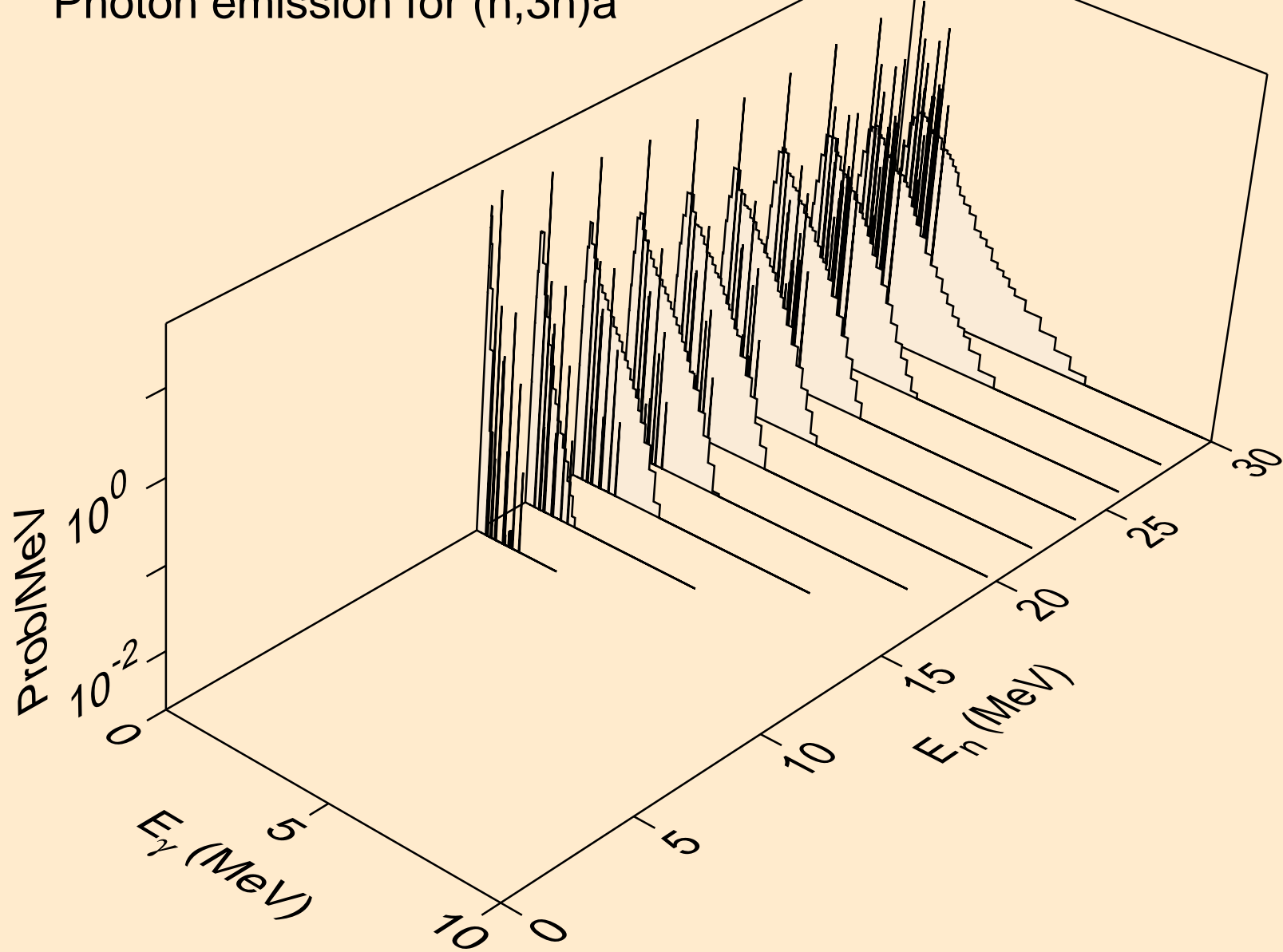
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Photon emission for (n,n\*)a



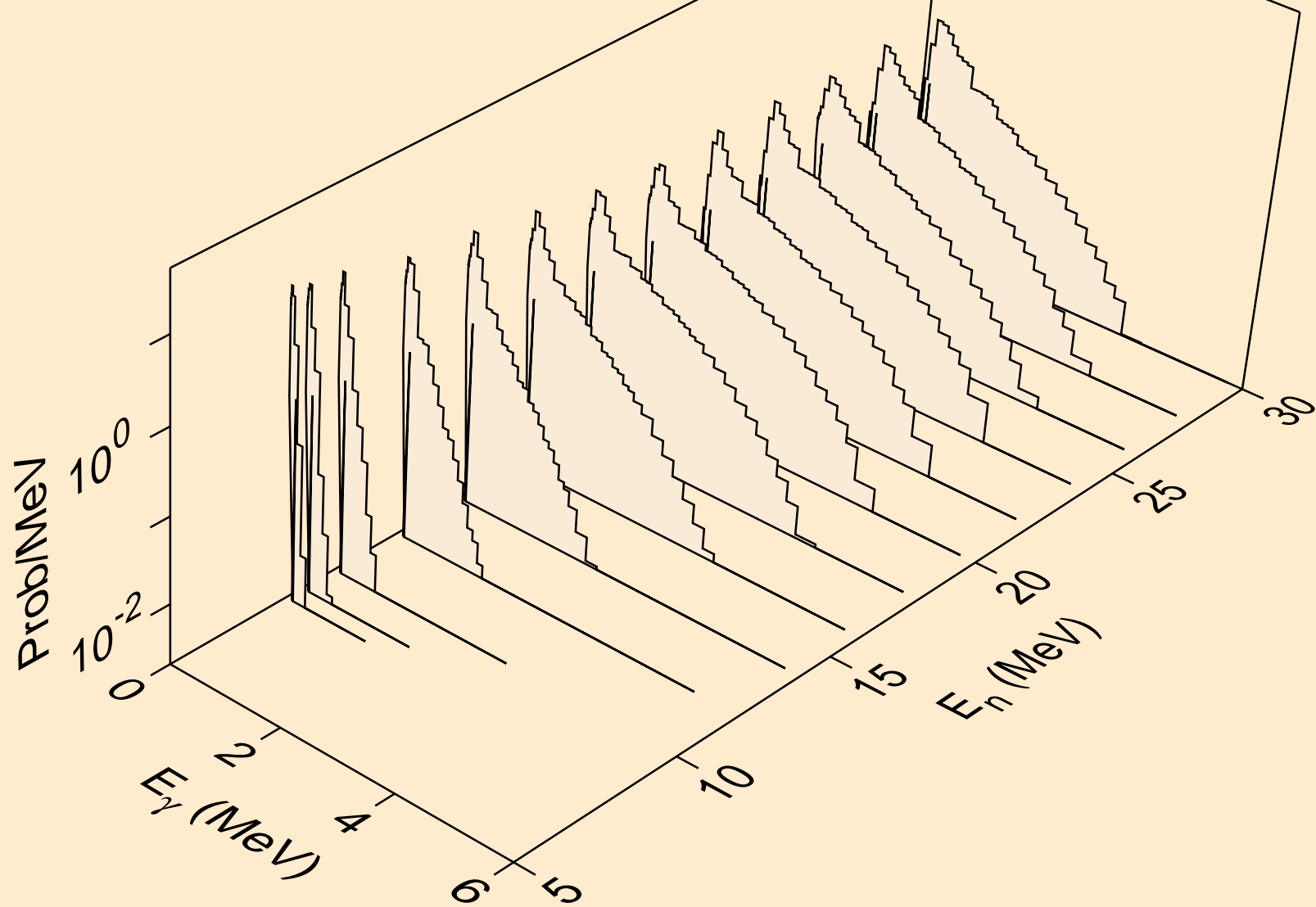
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Photon emission for (n,2n)a



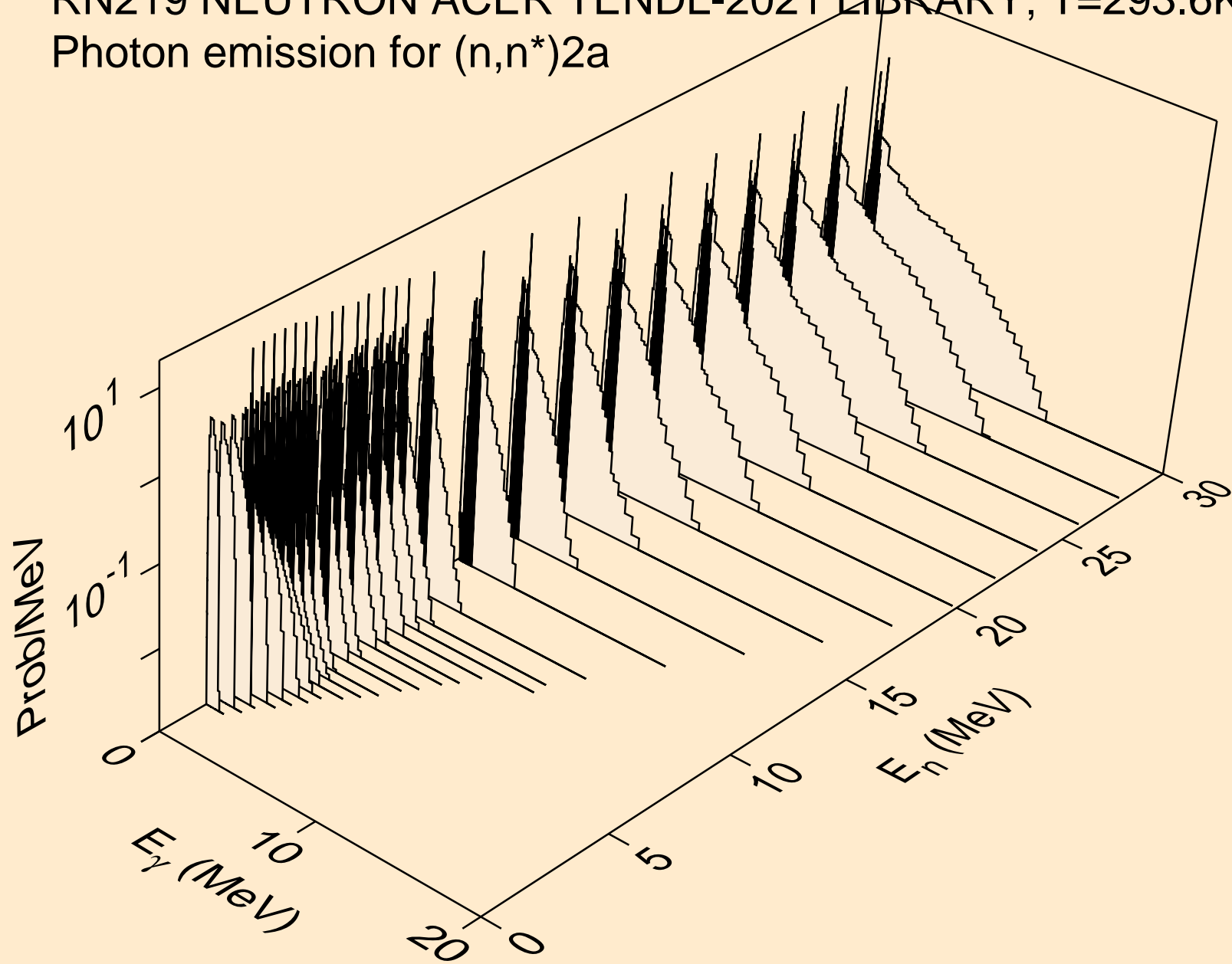
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Photon emission for (n,3n)a



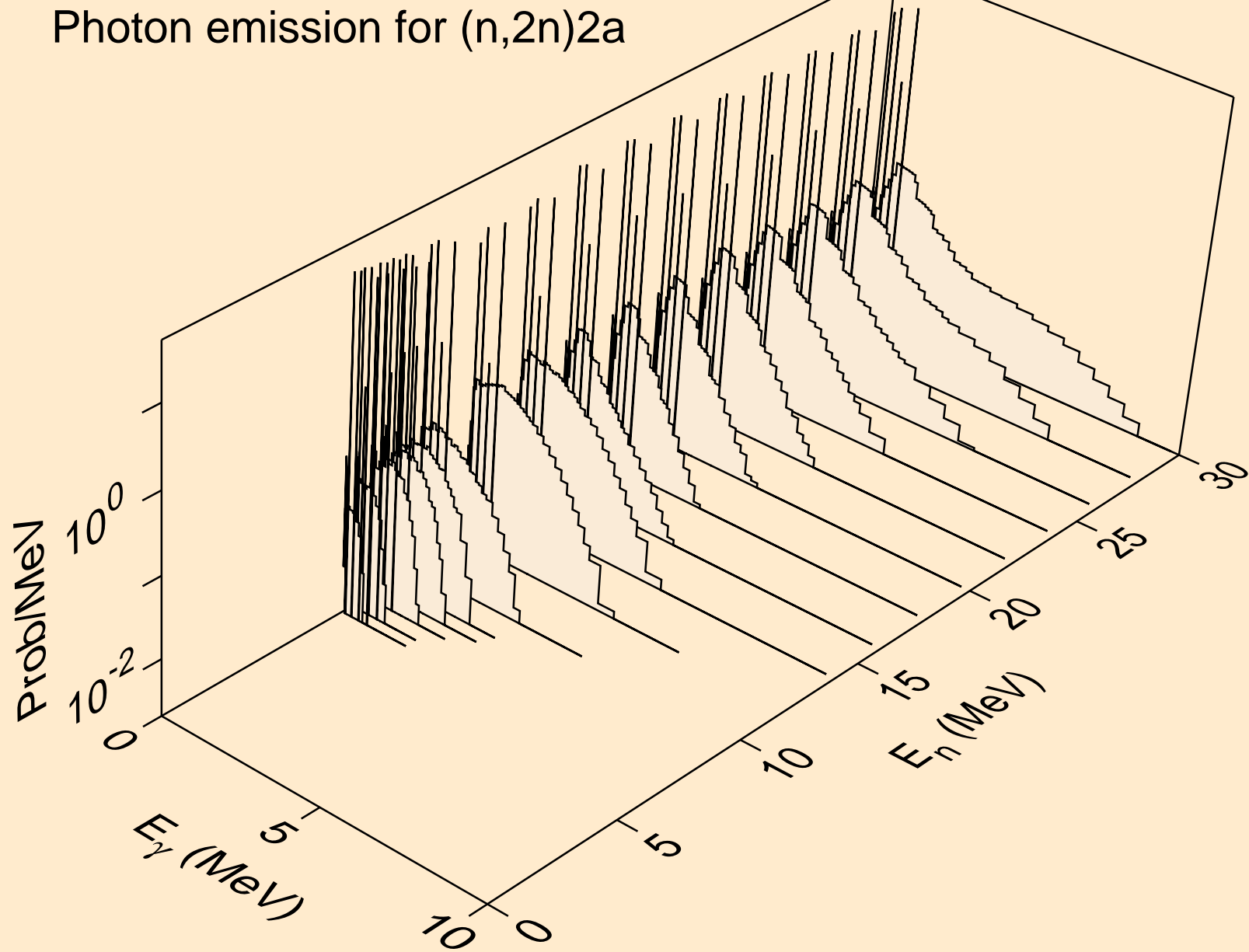
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Photon emission for (n,n\*)p



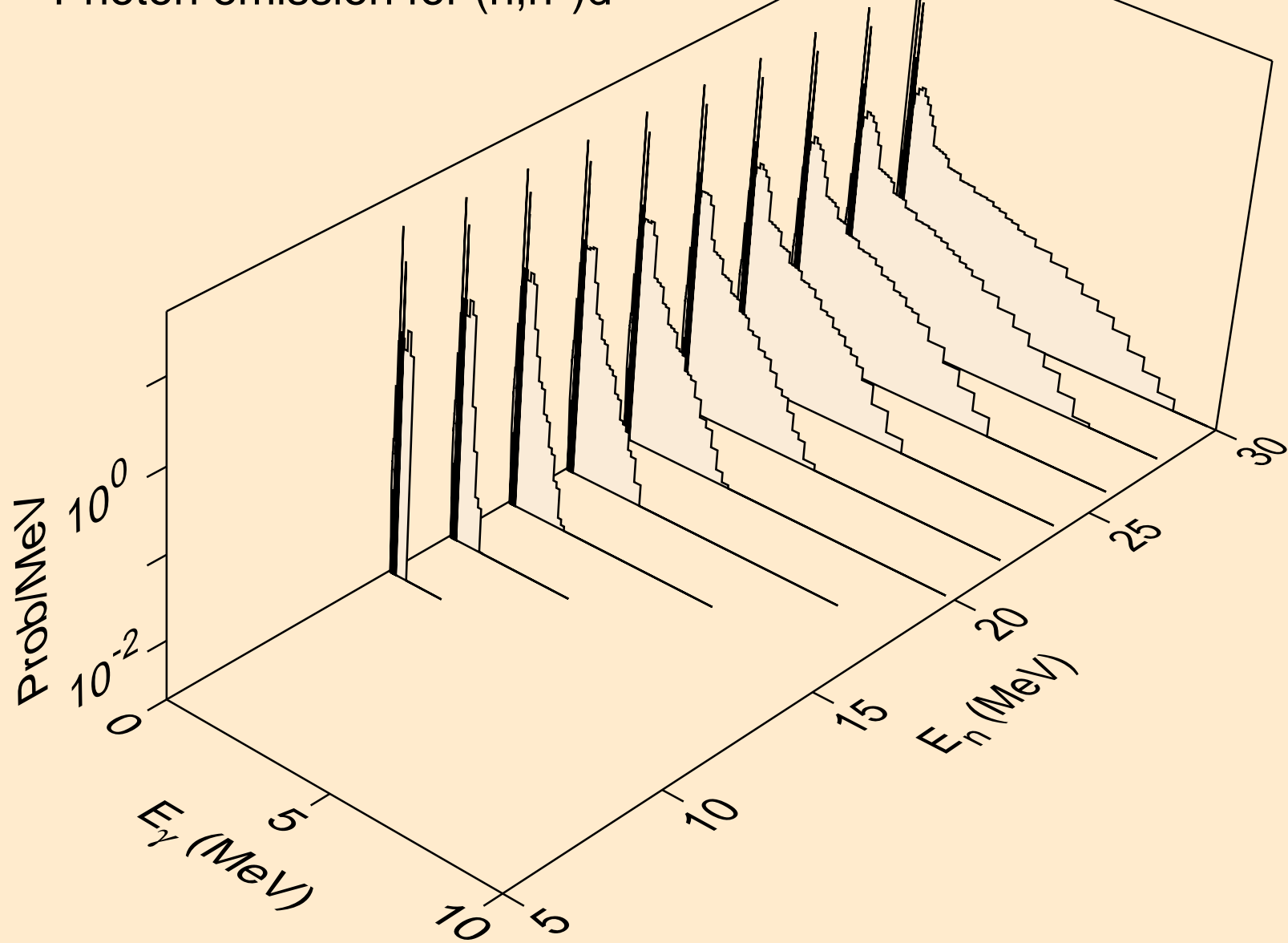
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)2a

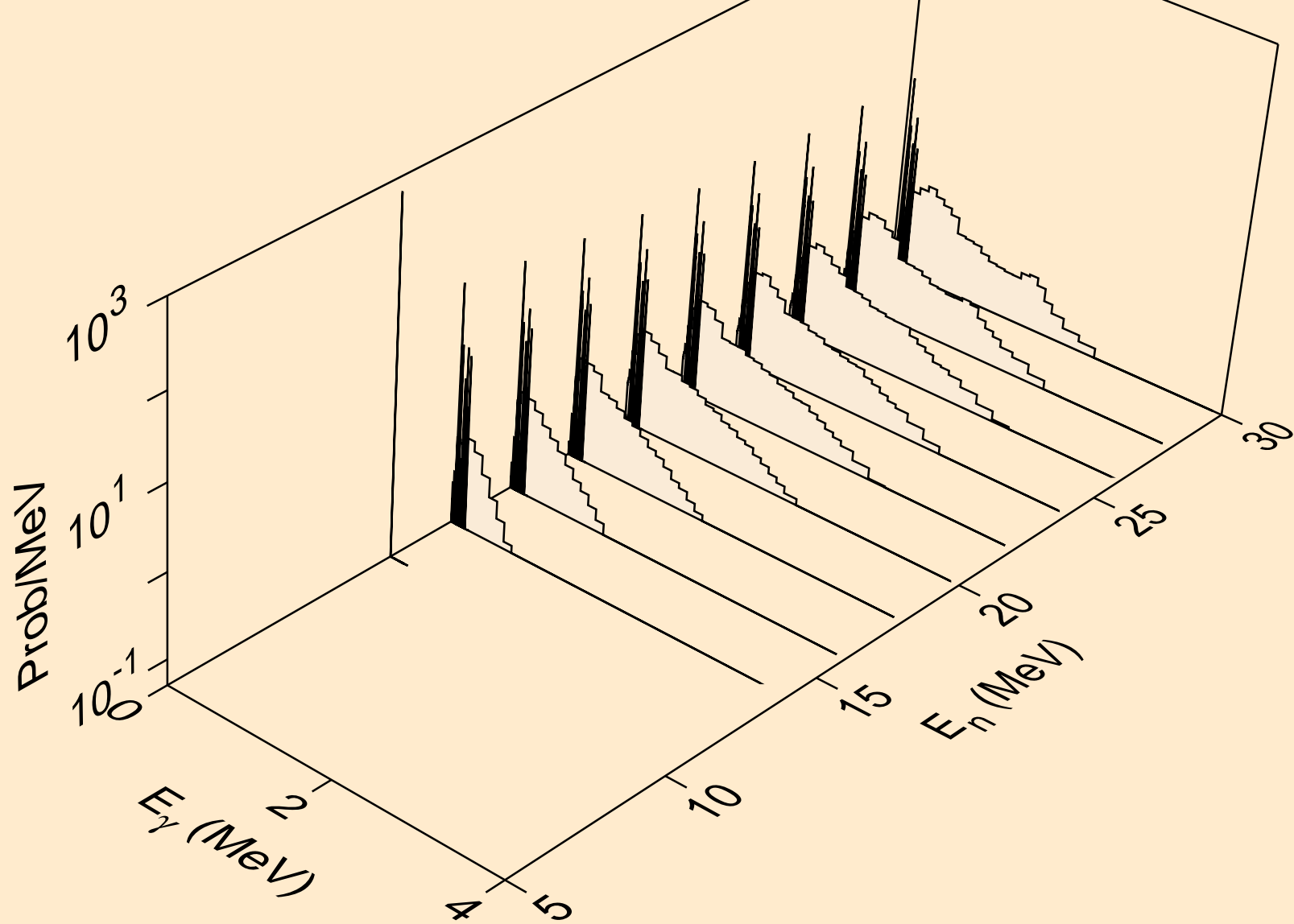


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

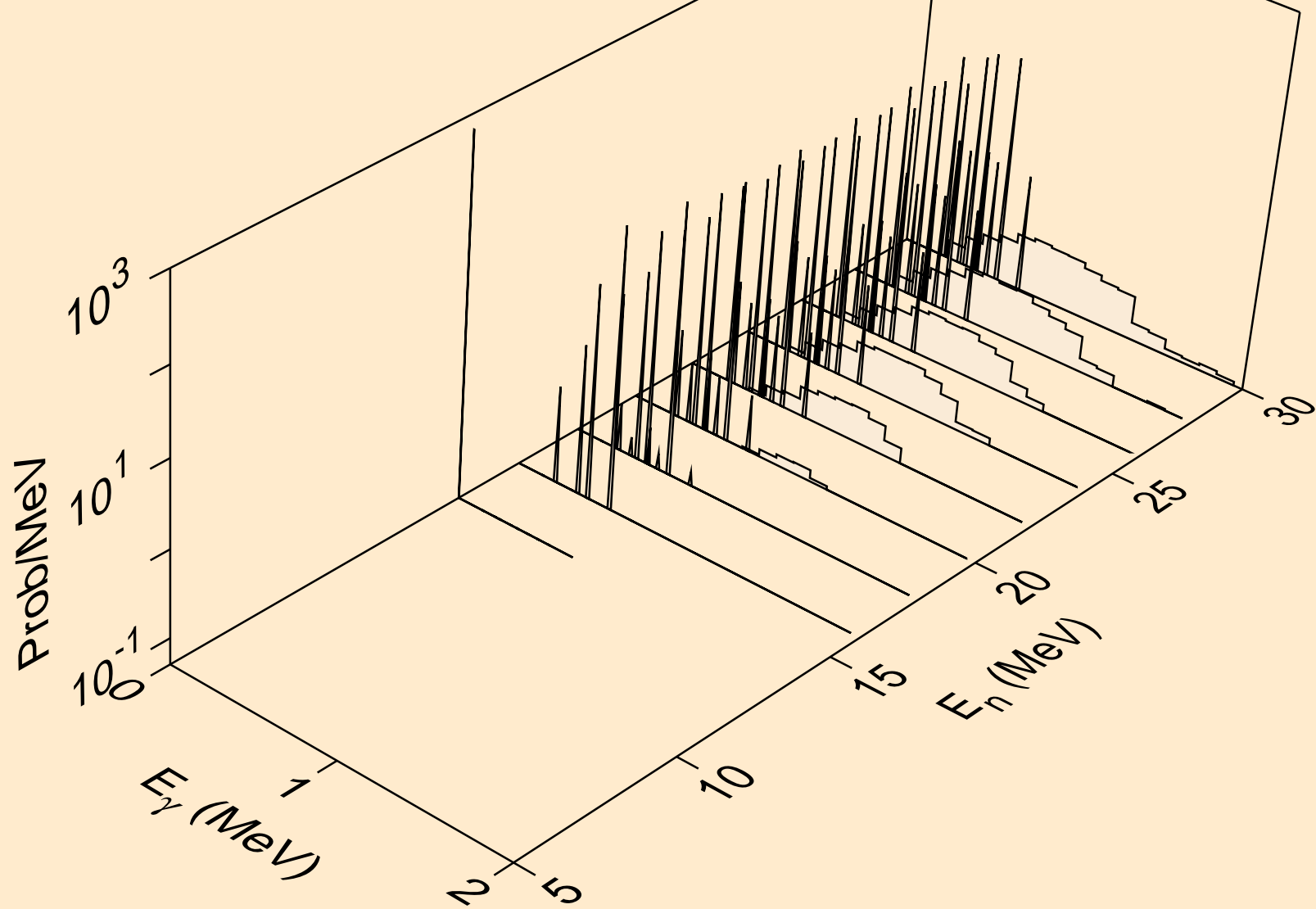




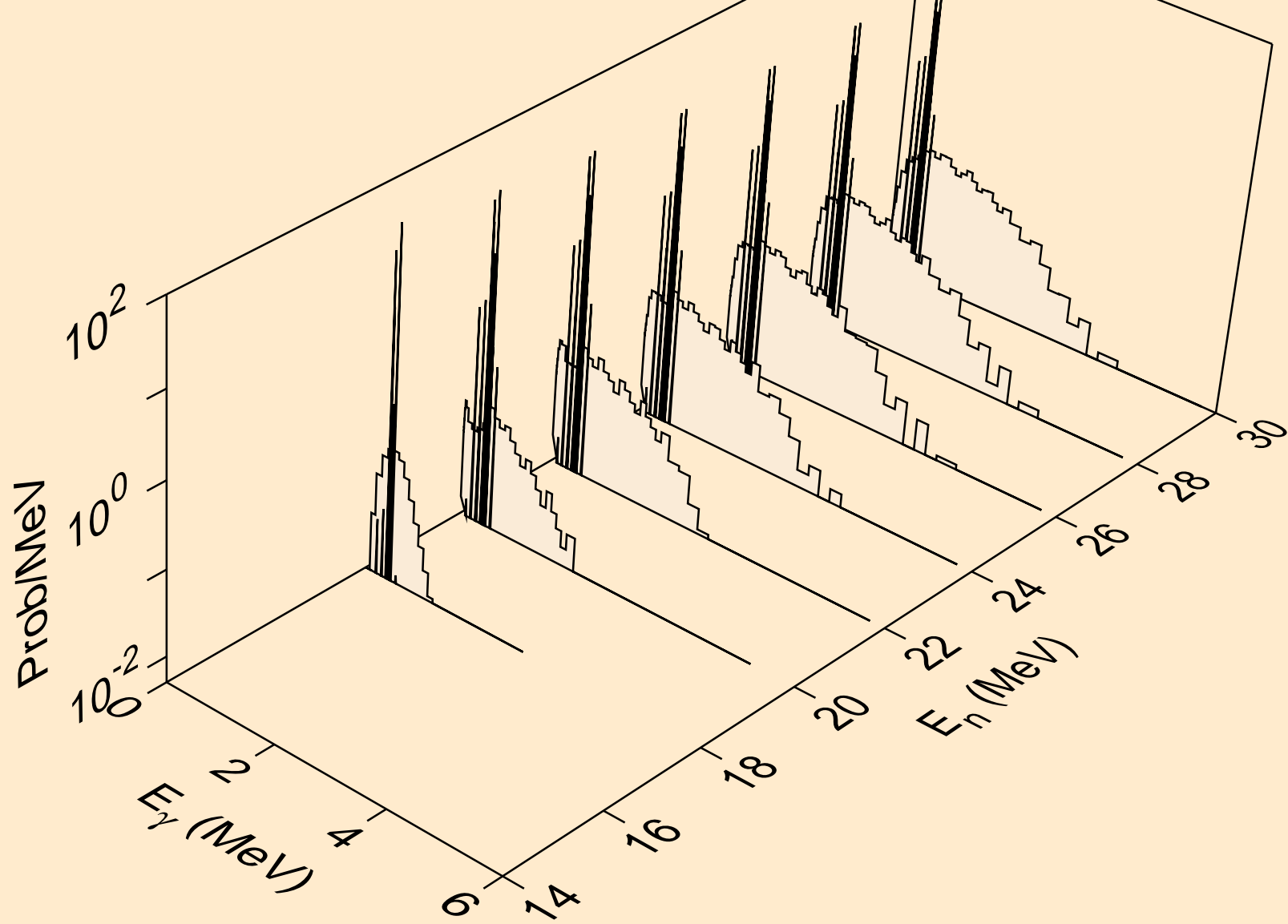
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Photon emission for (n,n\*)t



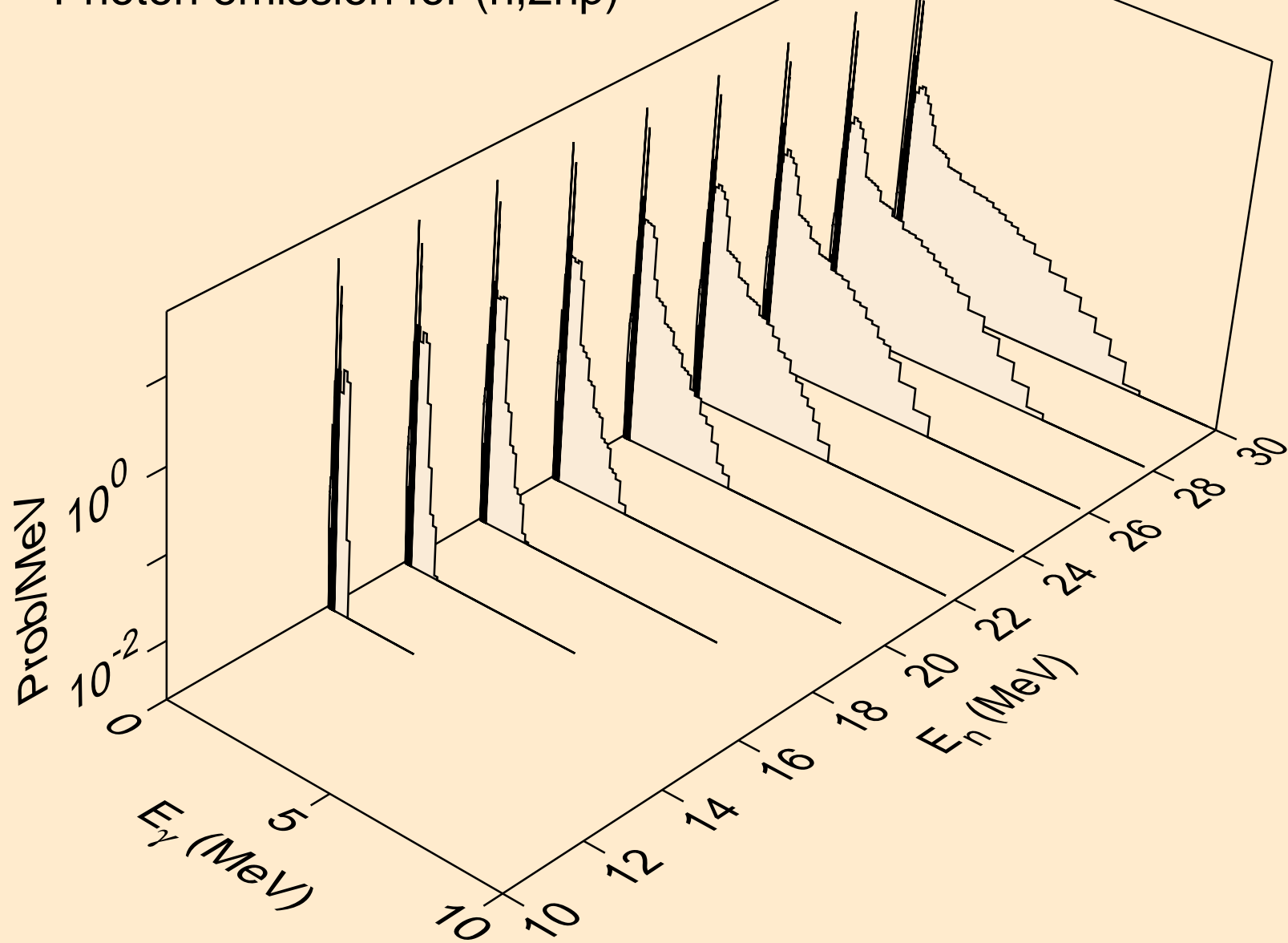
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Photon emission for (n,n\*)he3



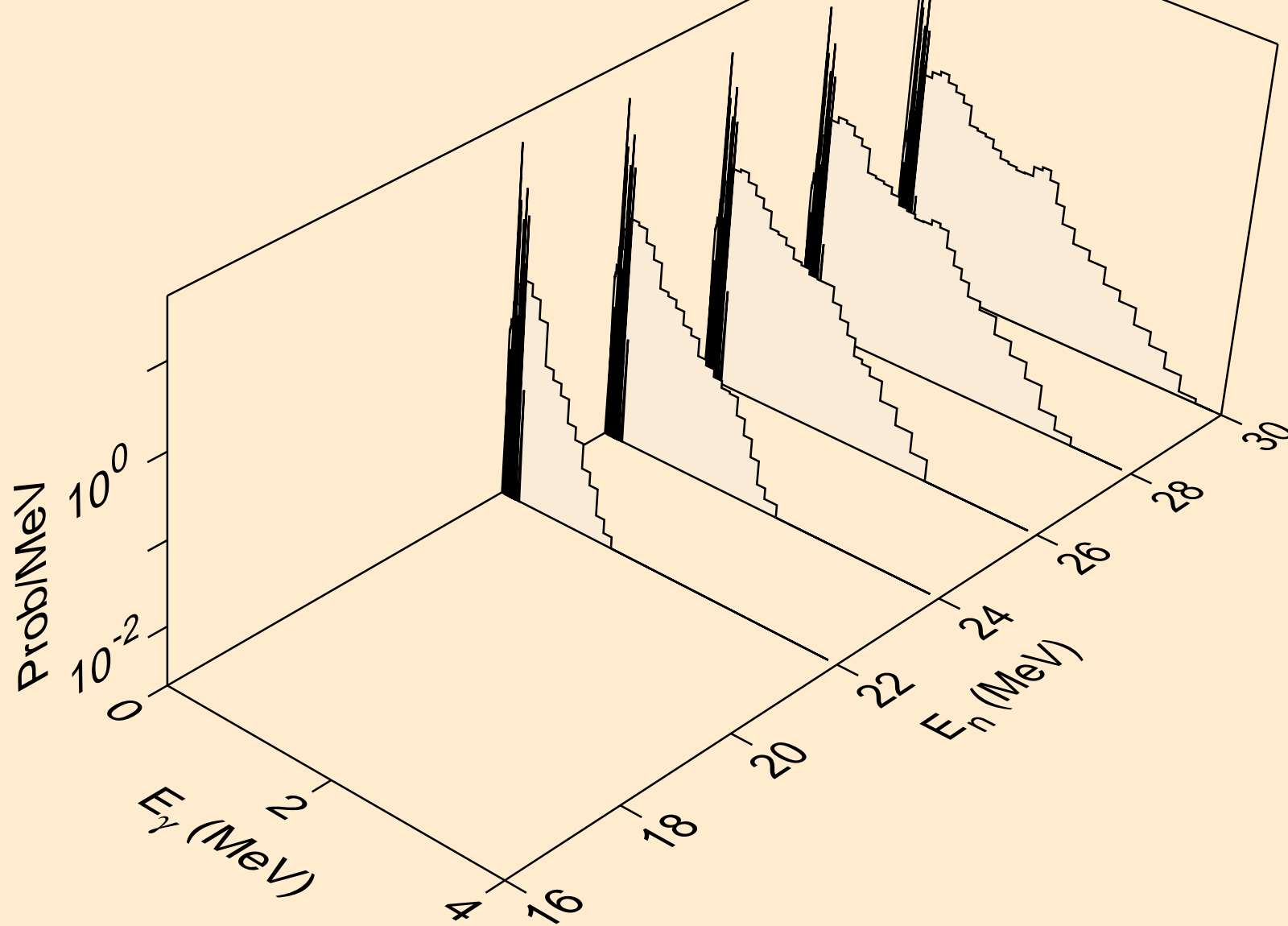
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



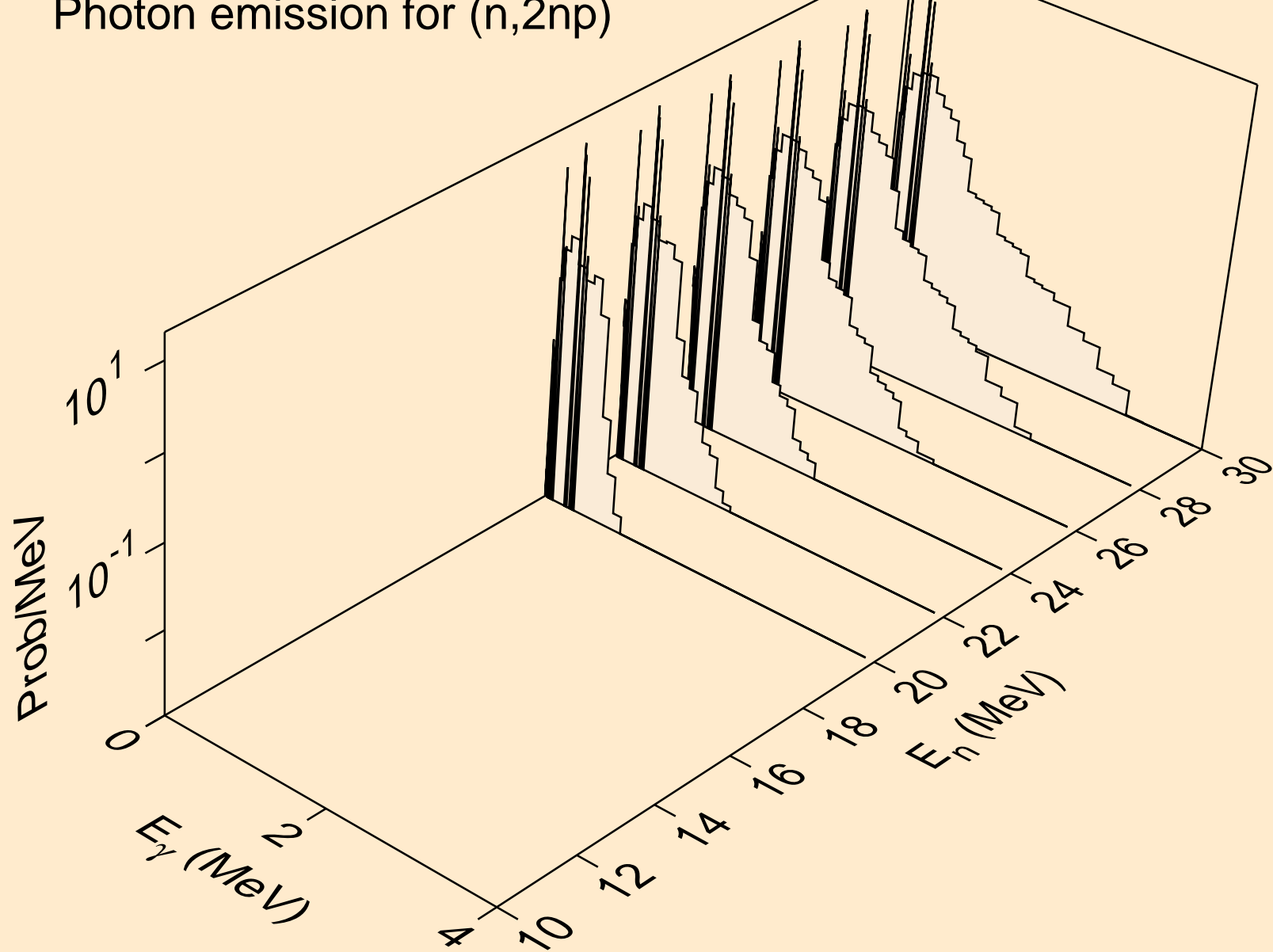
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Photon emission for (n,2np)



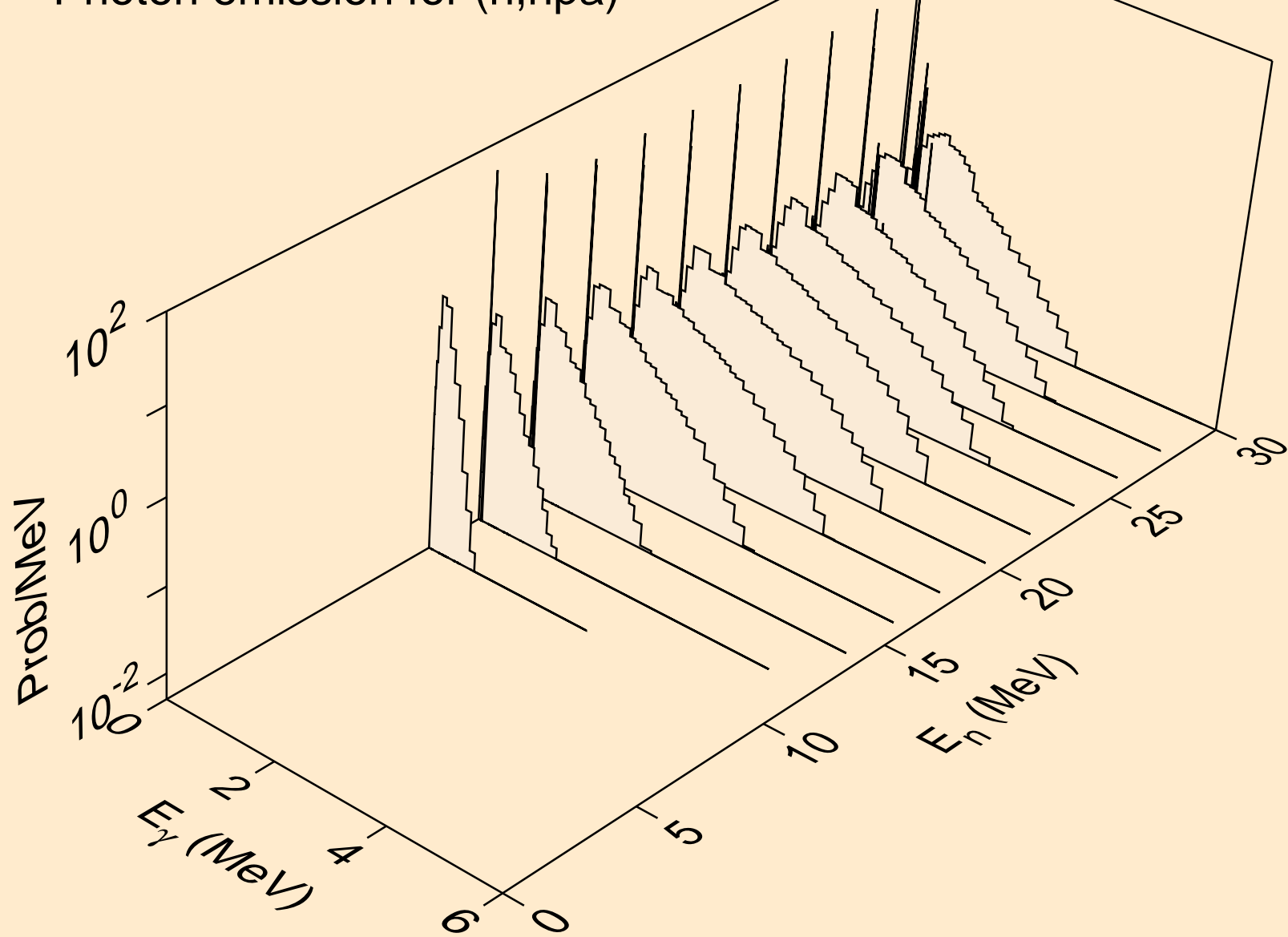
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Photon emission for (n,3np)



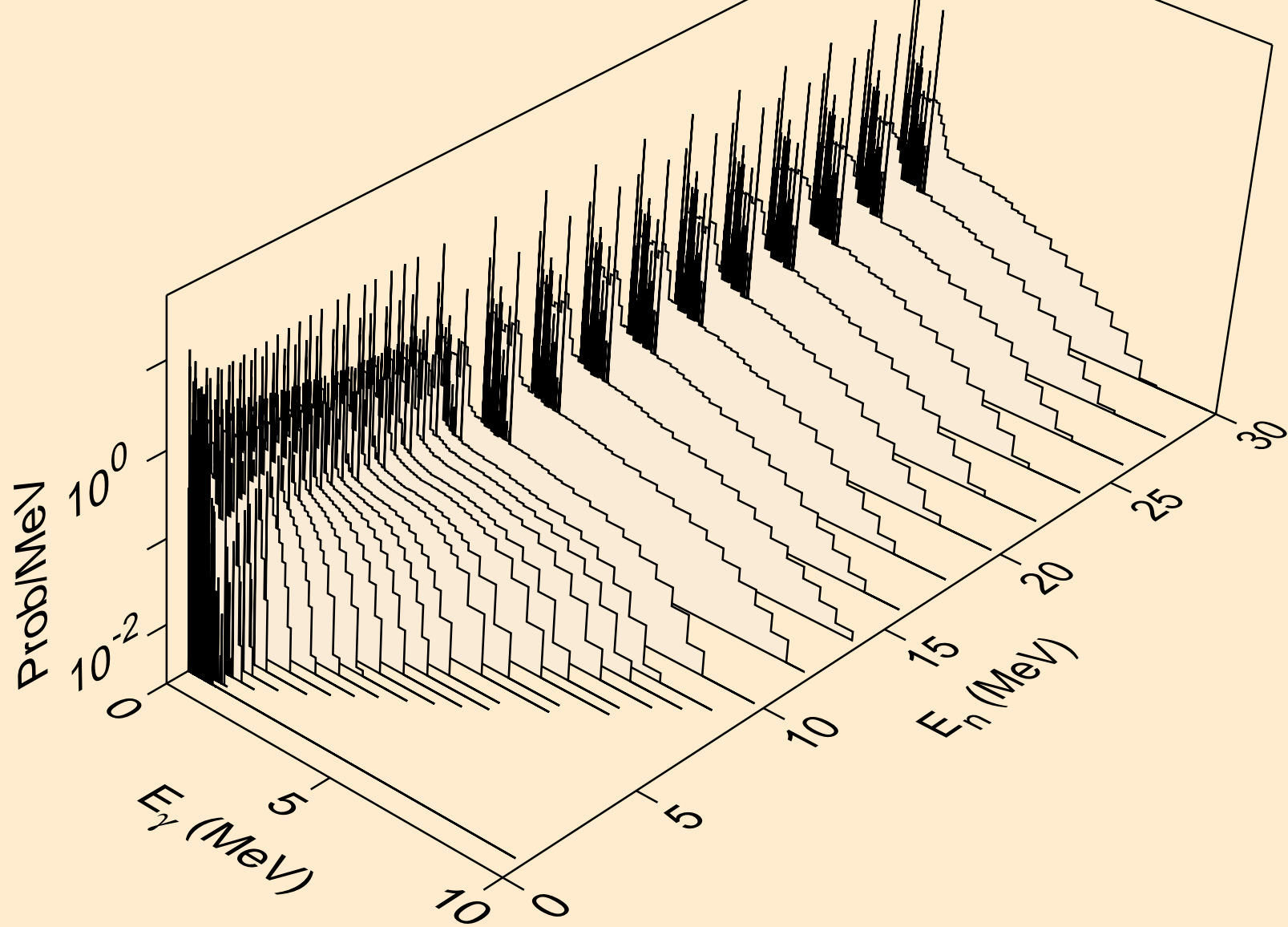
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Photon emission for (n,2np)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

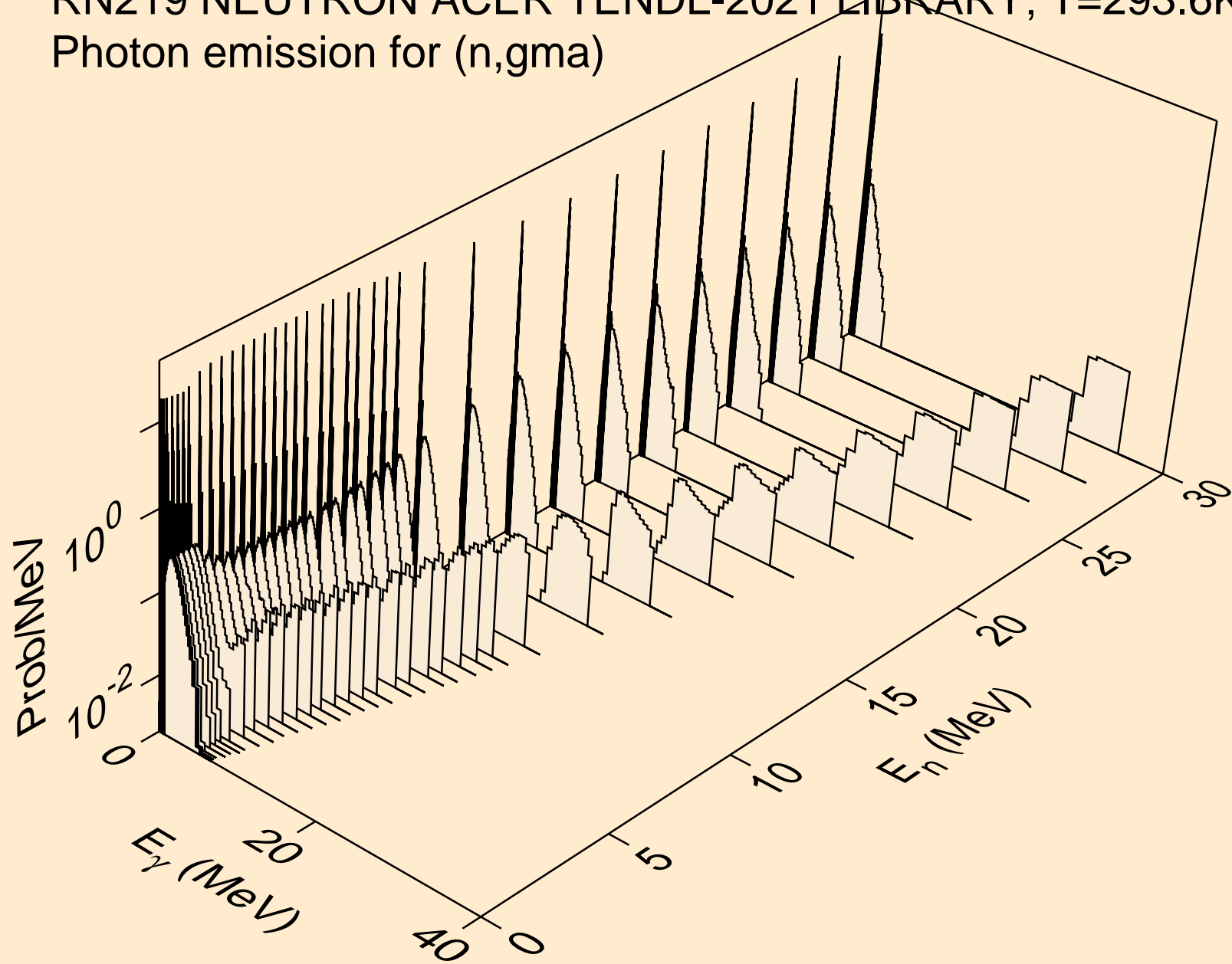


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Photon emission for (n,n\*c)

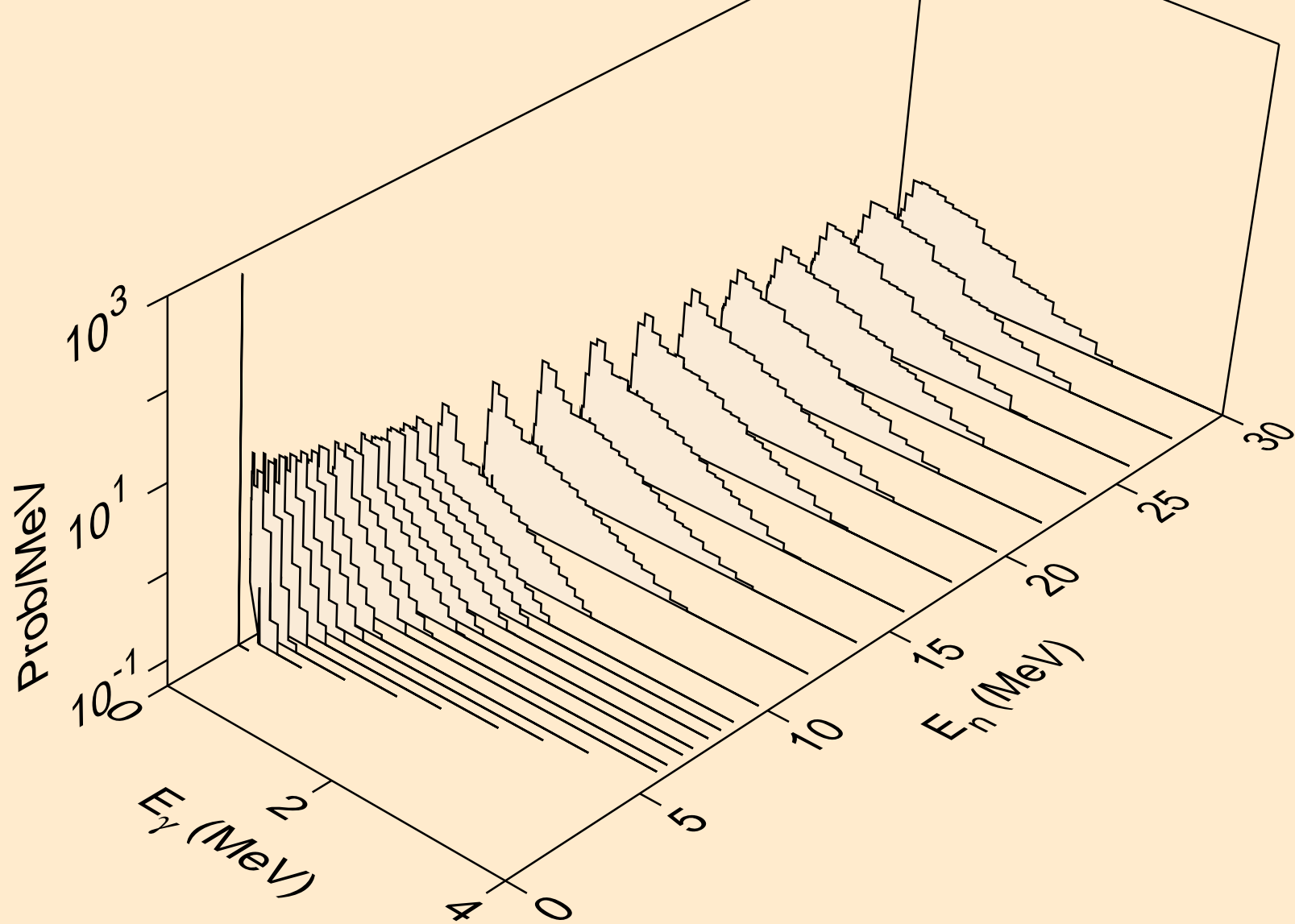




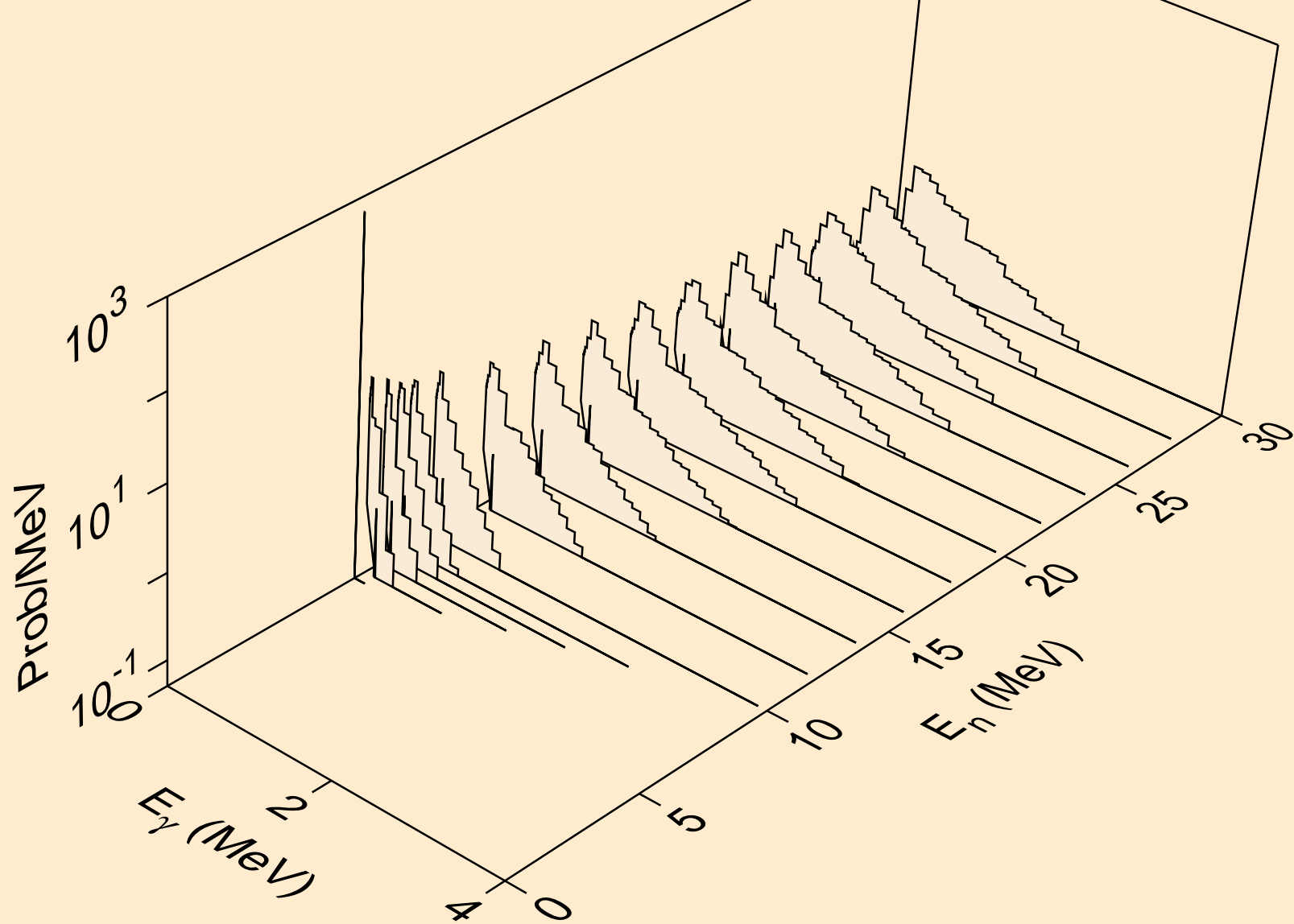
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Photon emission for (n,gma)



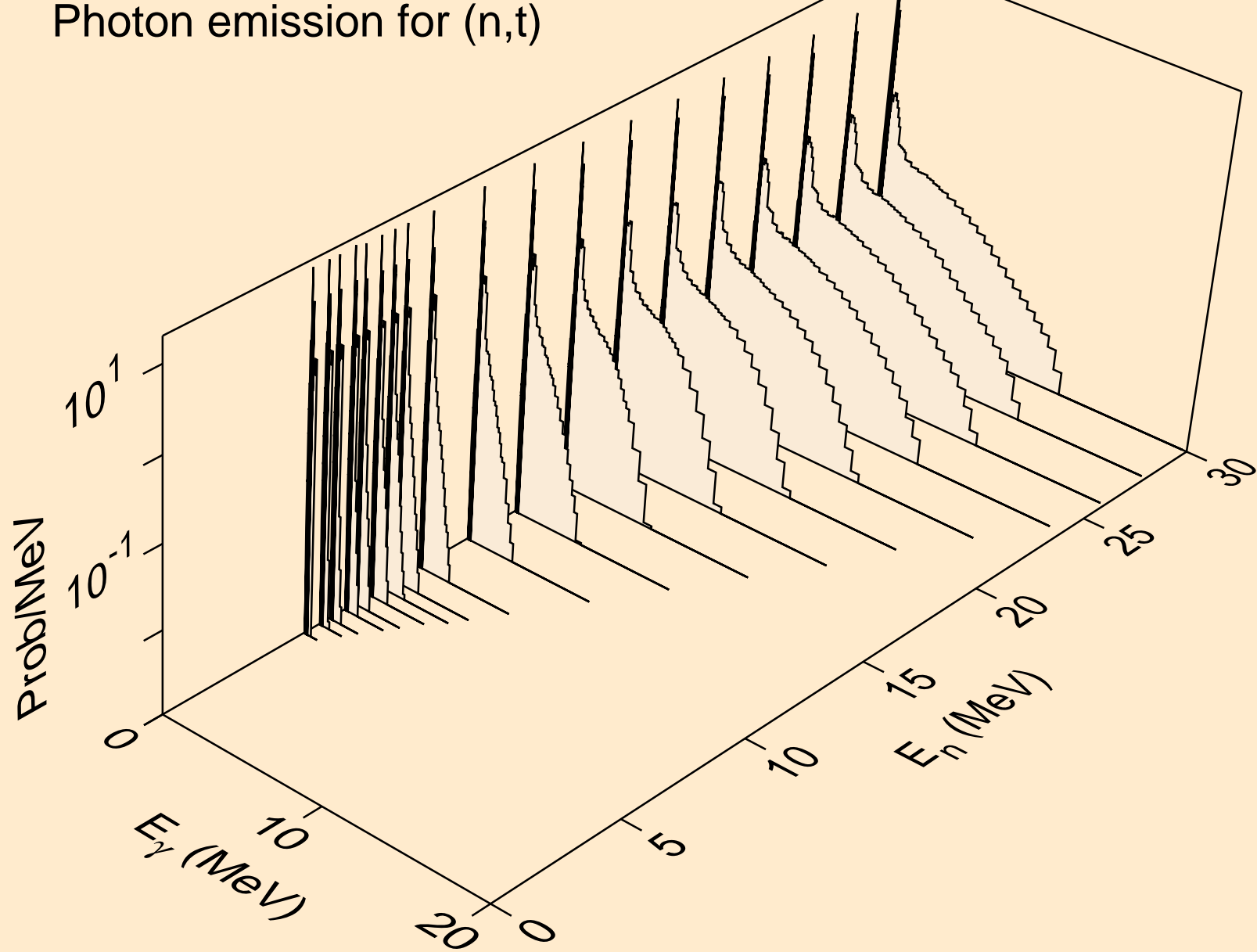
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Photon emission for (n,p)



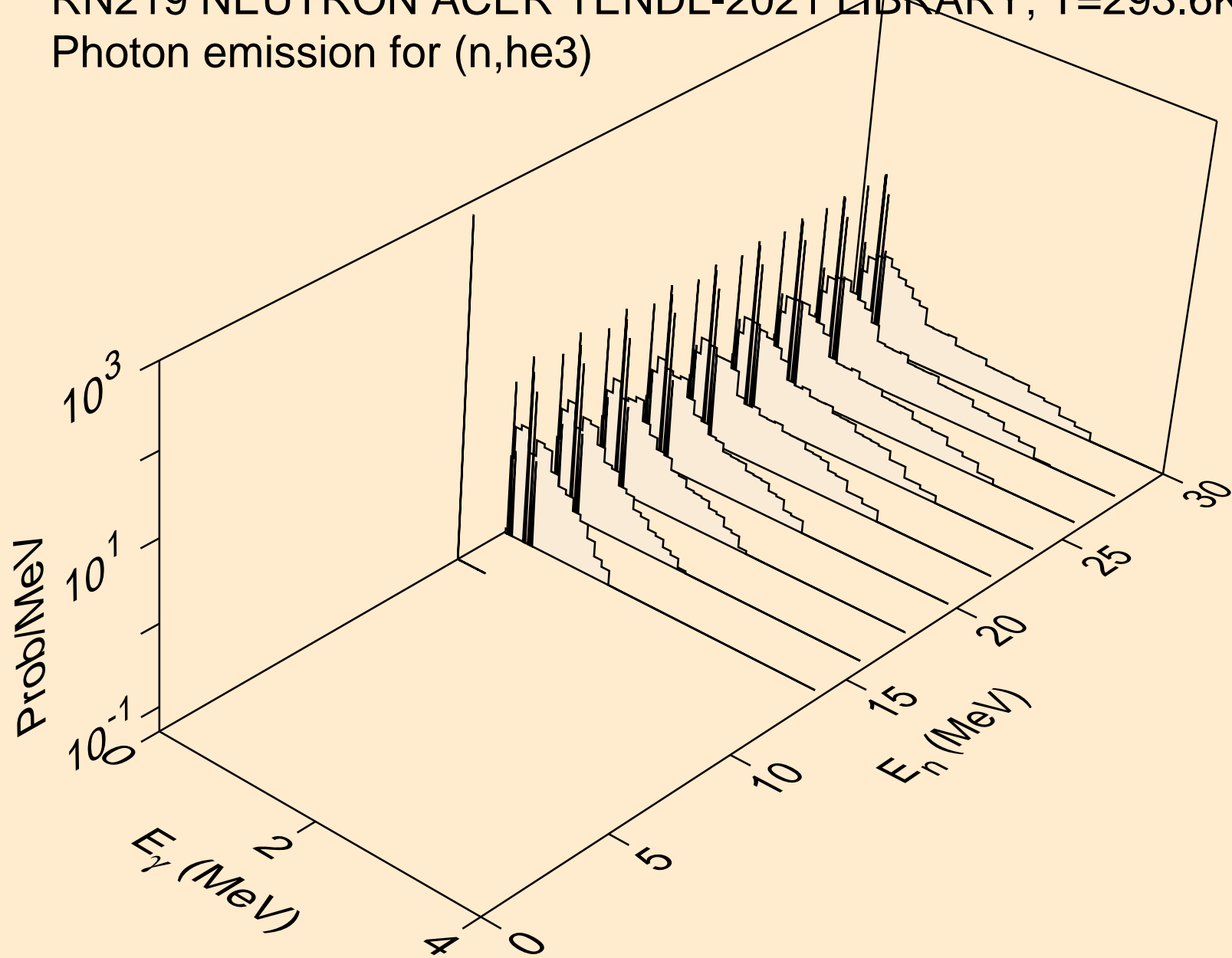
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Photon emission for (n,d)



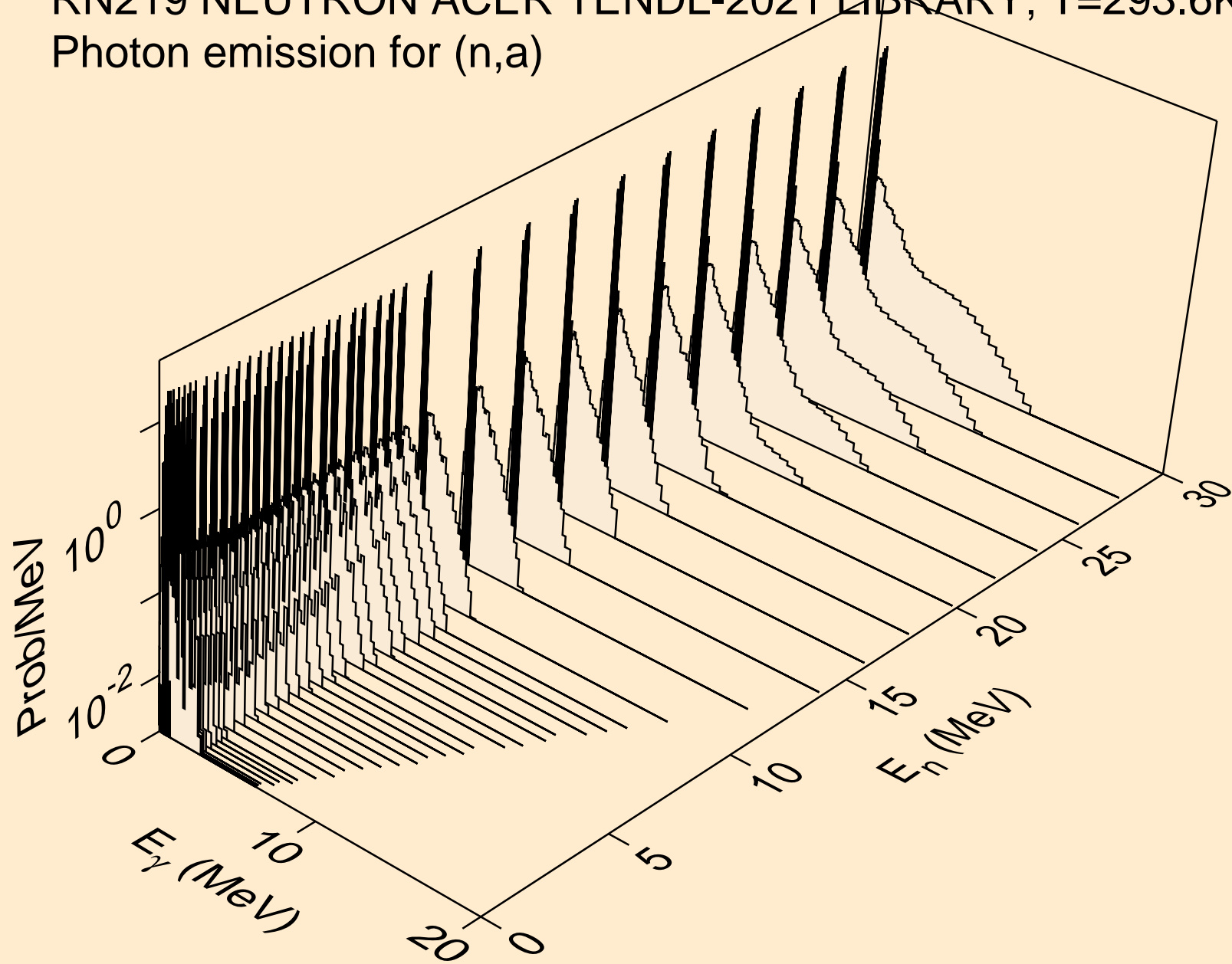
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Photon emission for (n,t)



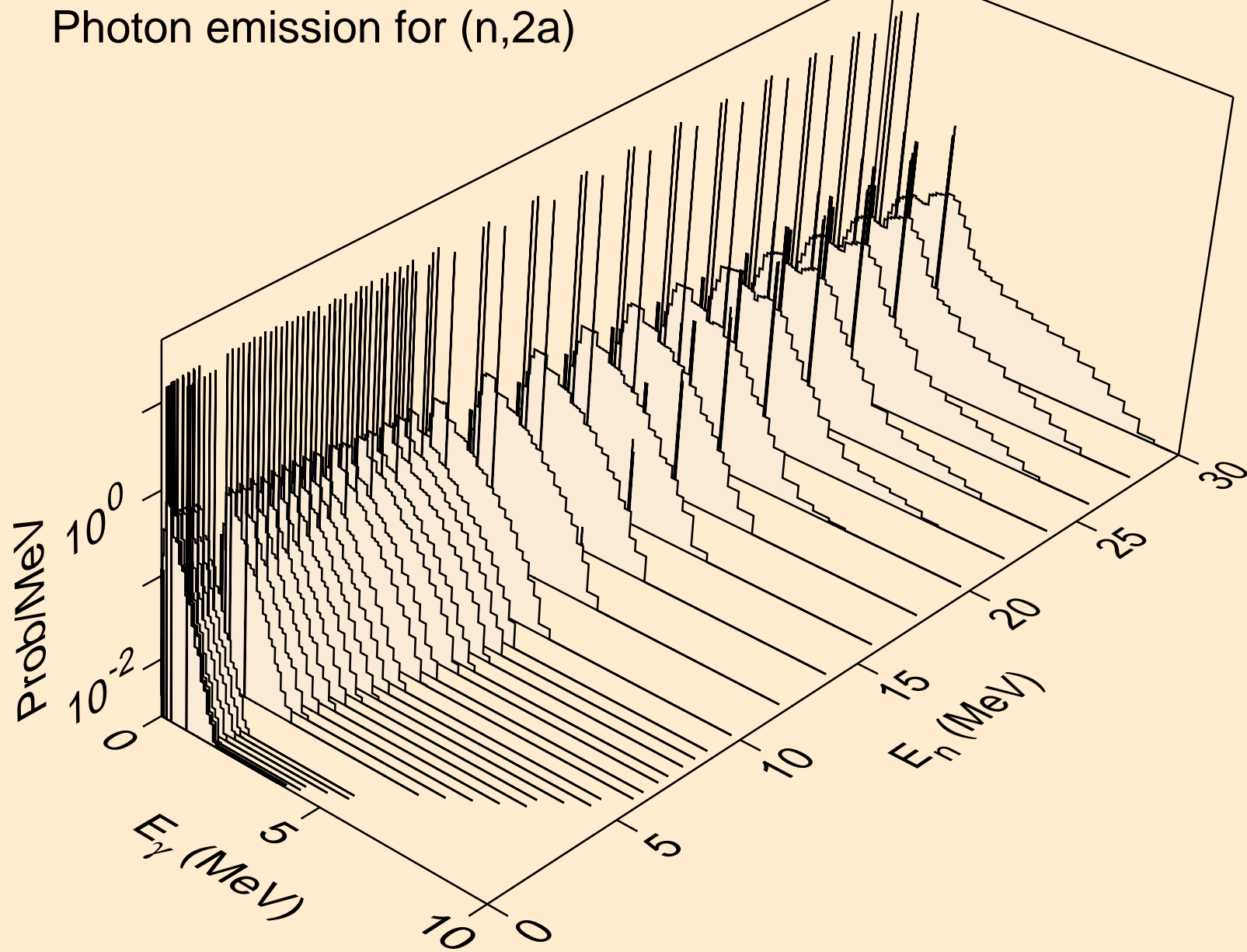
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Photon emission for (n,he3)



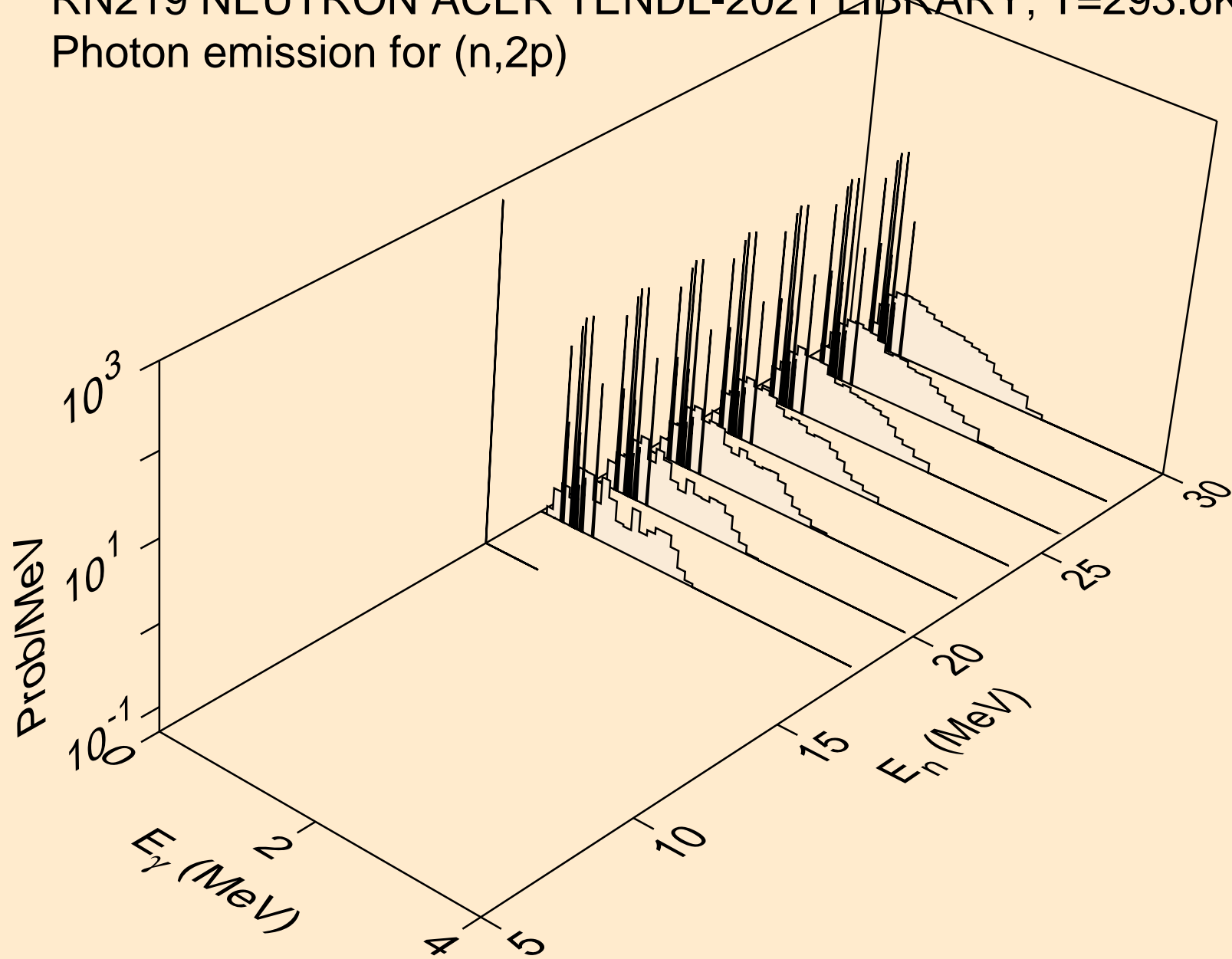
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)

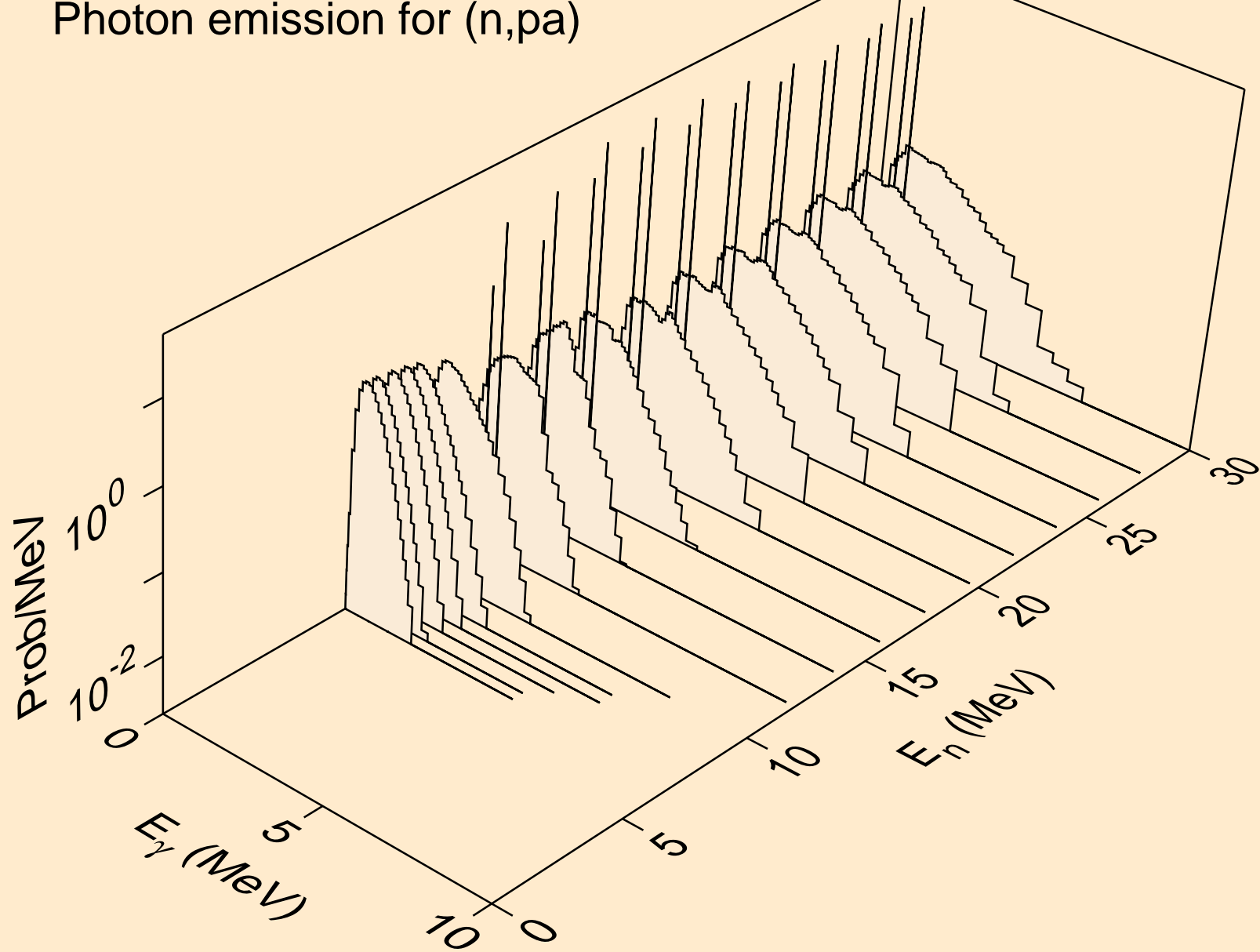


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Photon emission for (n,2p)

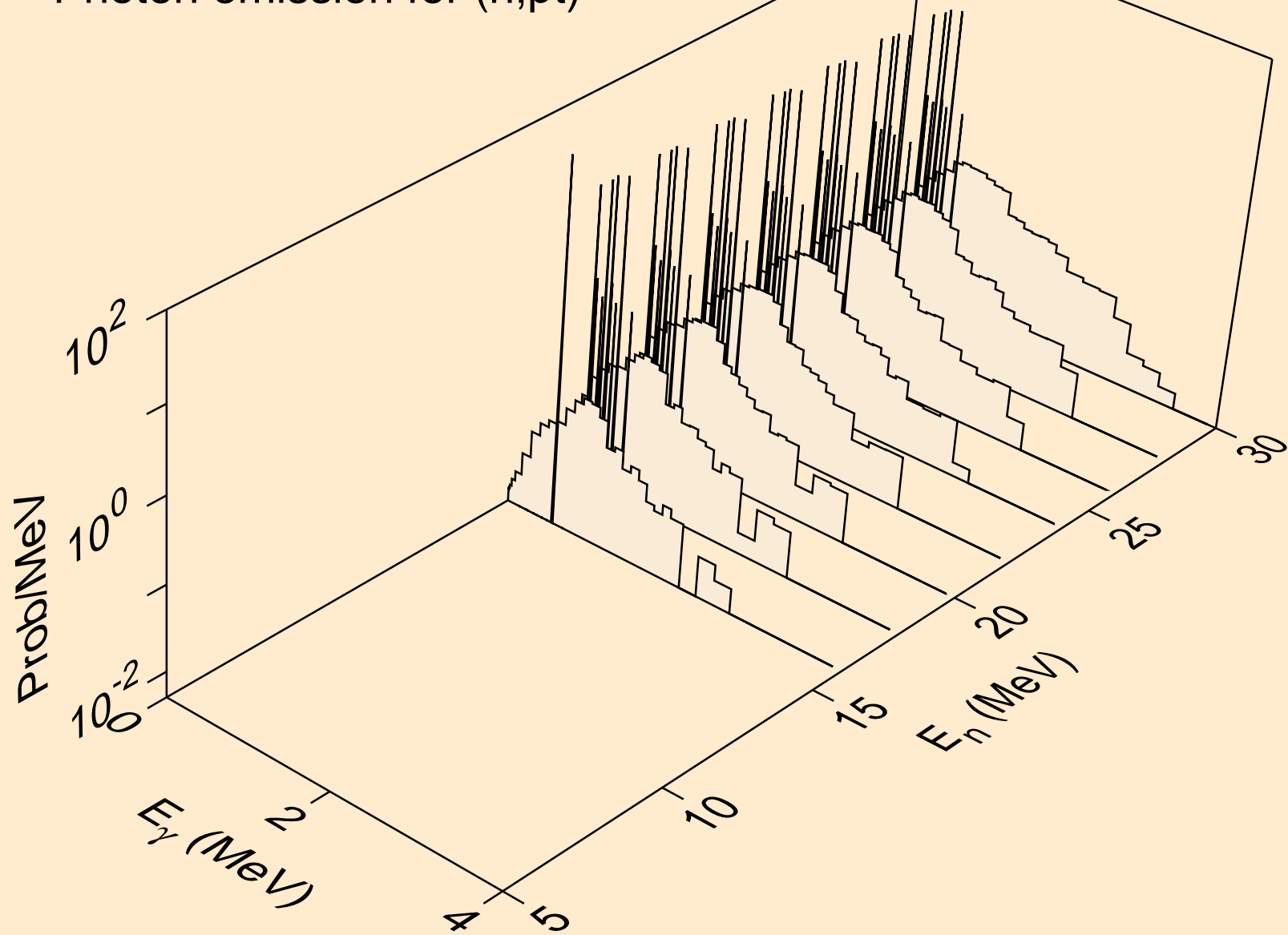




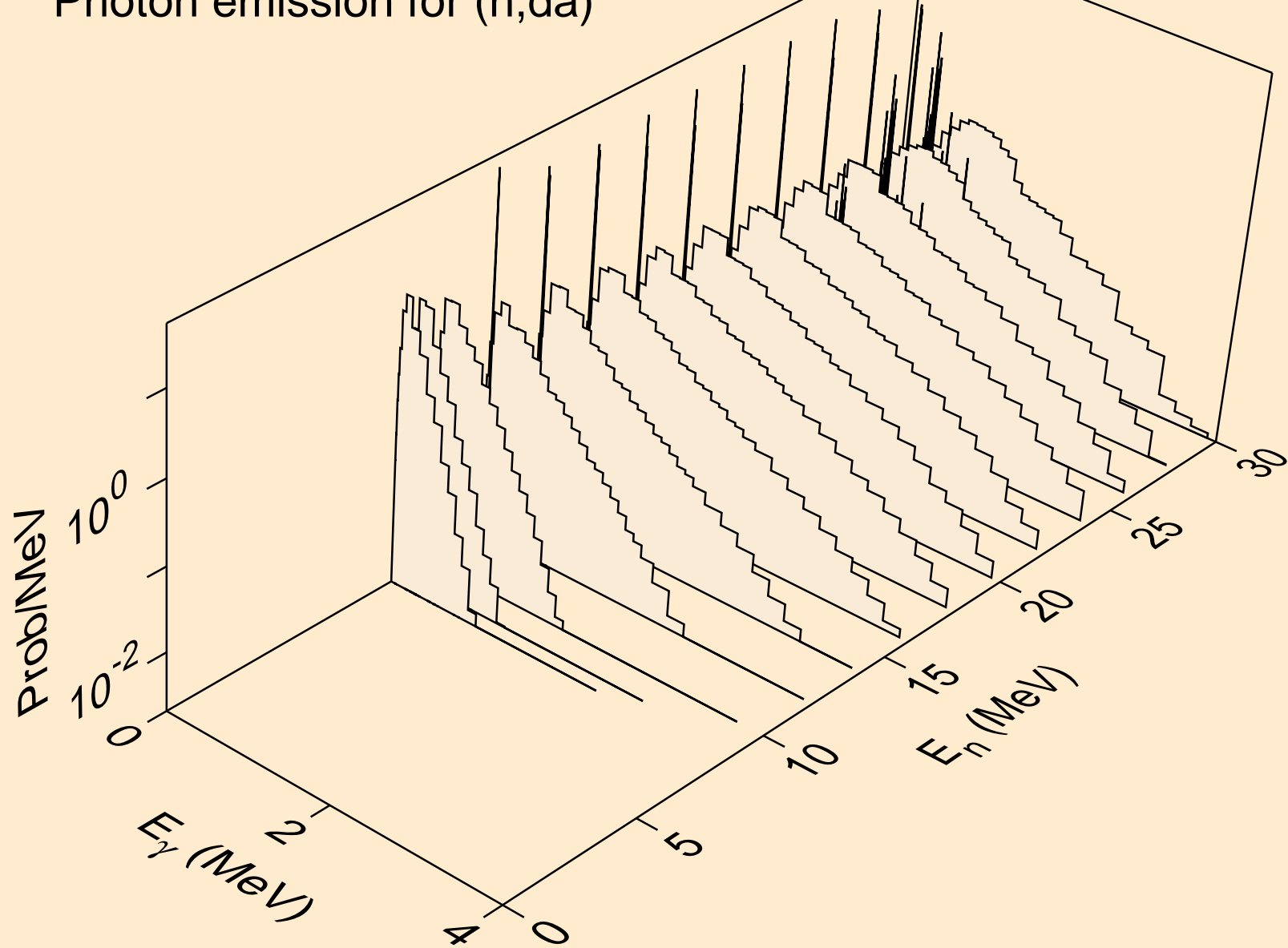
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Photon emission for (n,p $\alpha$ )



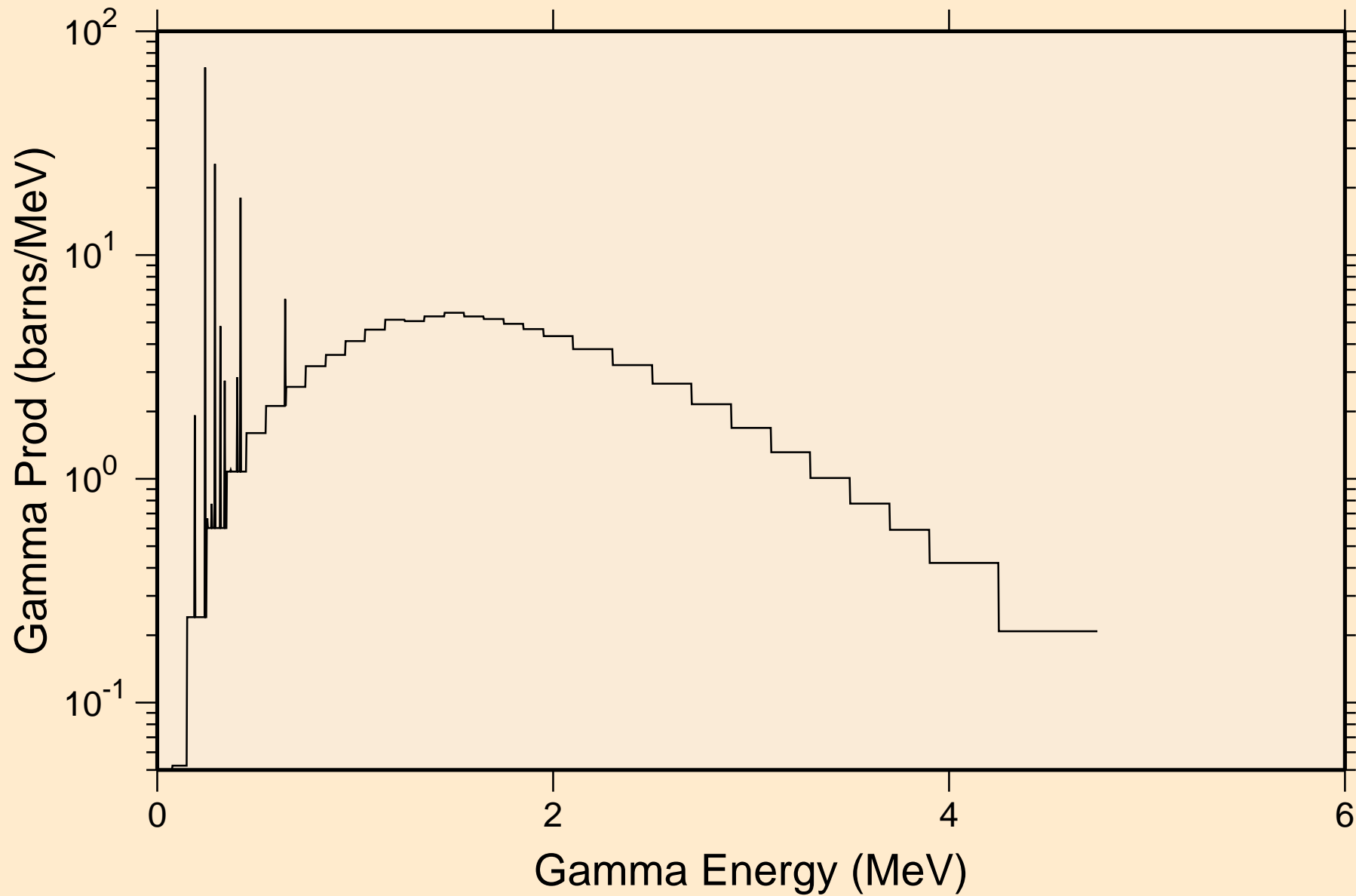
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Photon emission for (n,pt)



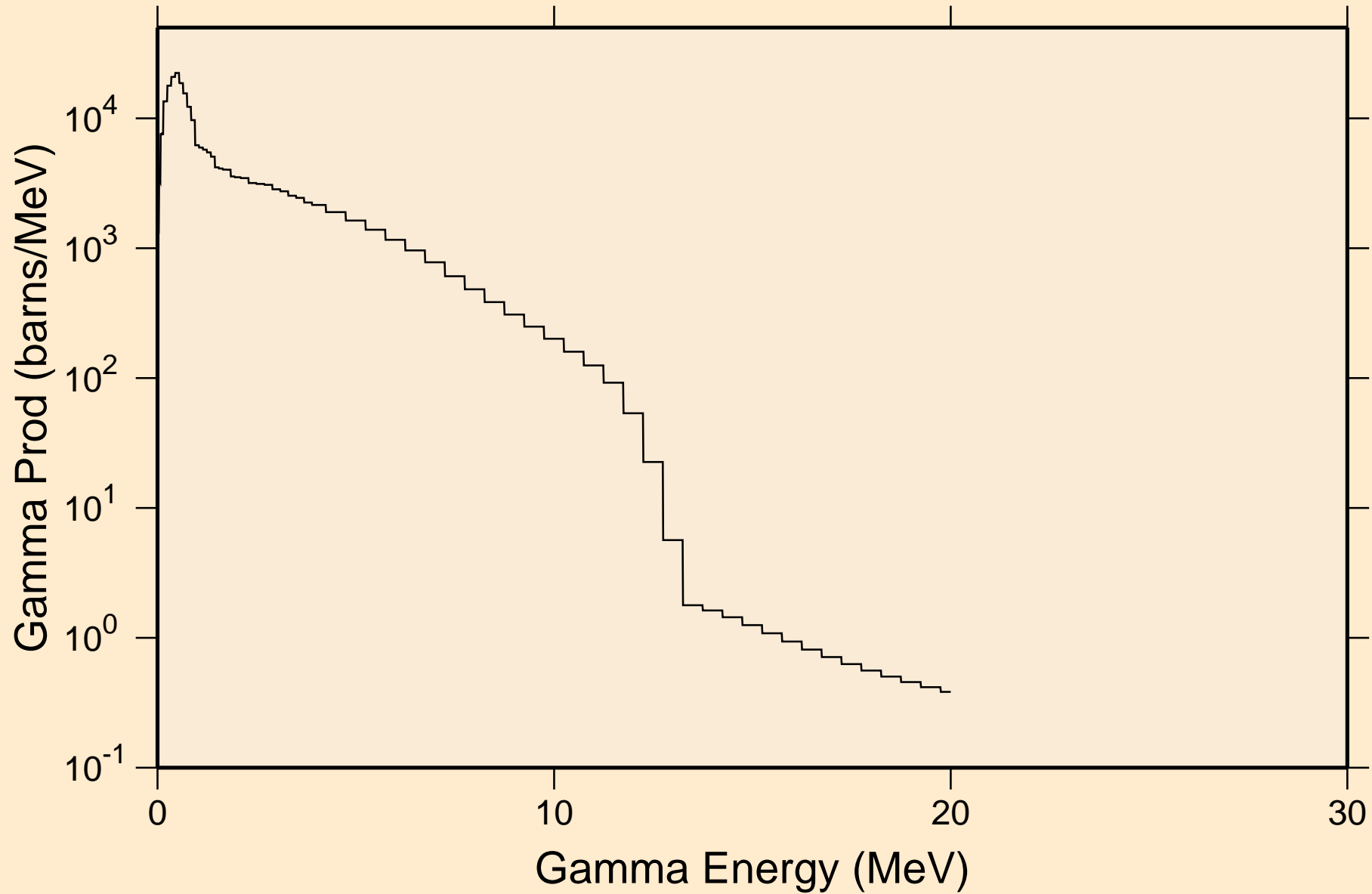
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Photon emission for (n,da)



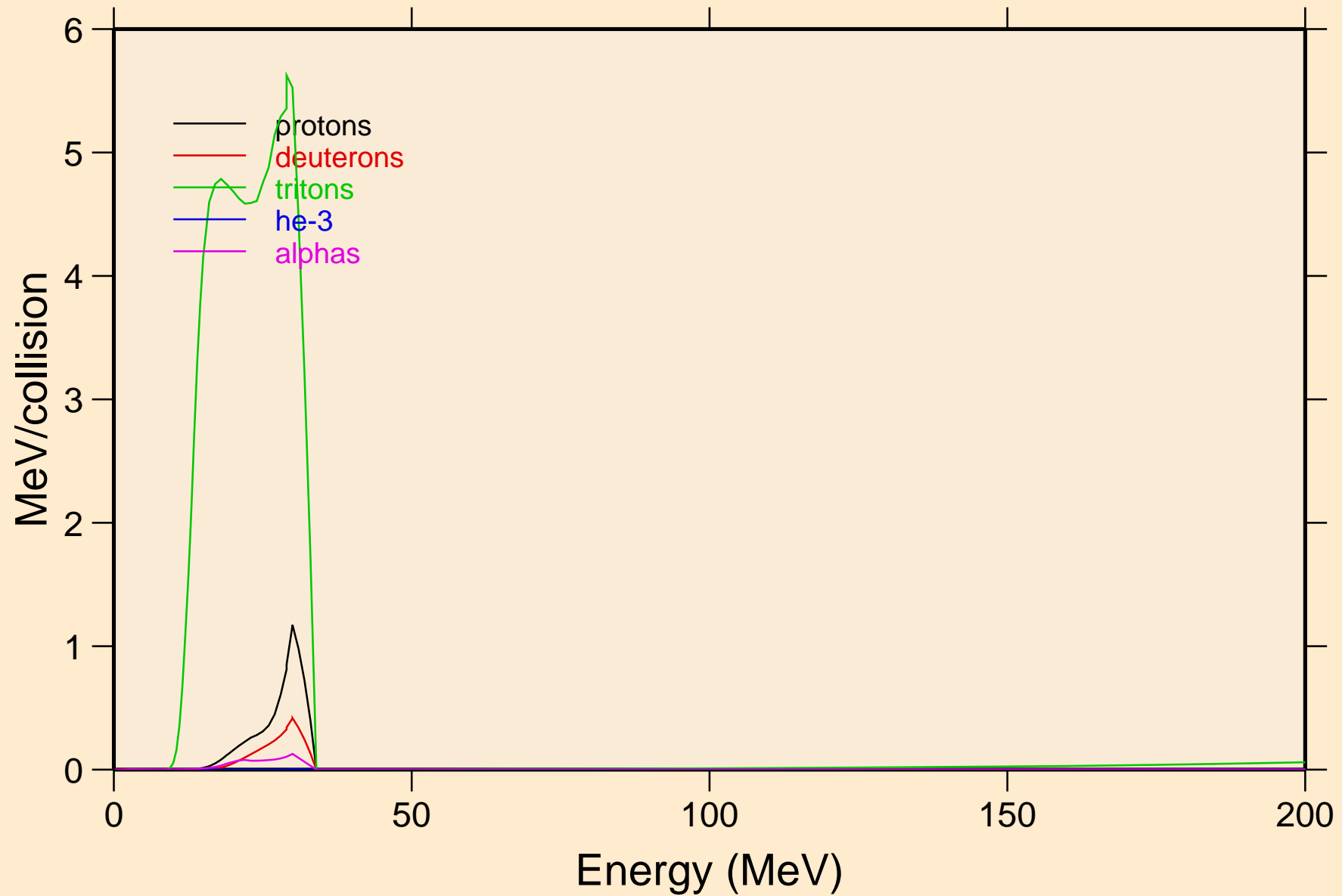
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thermal capture photon spectrum



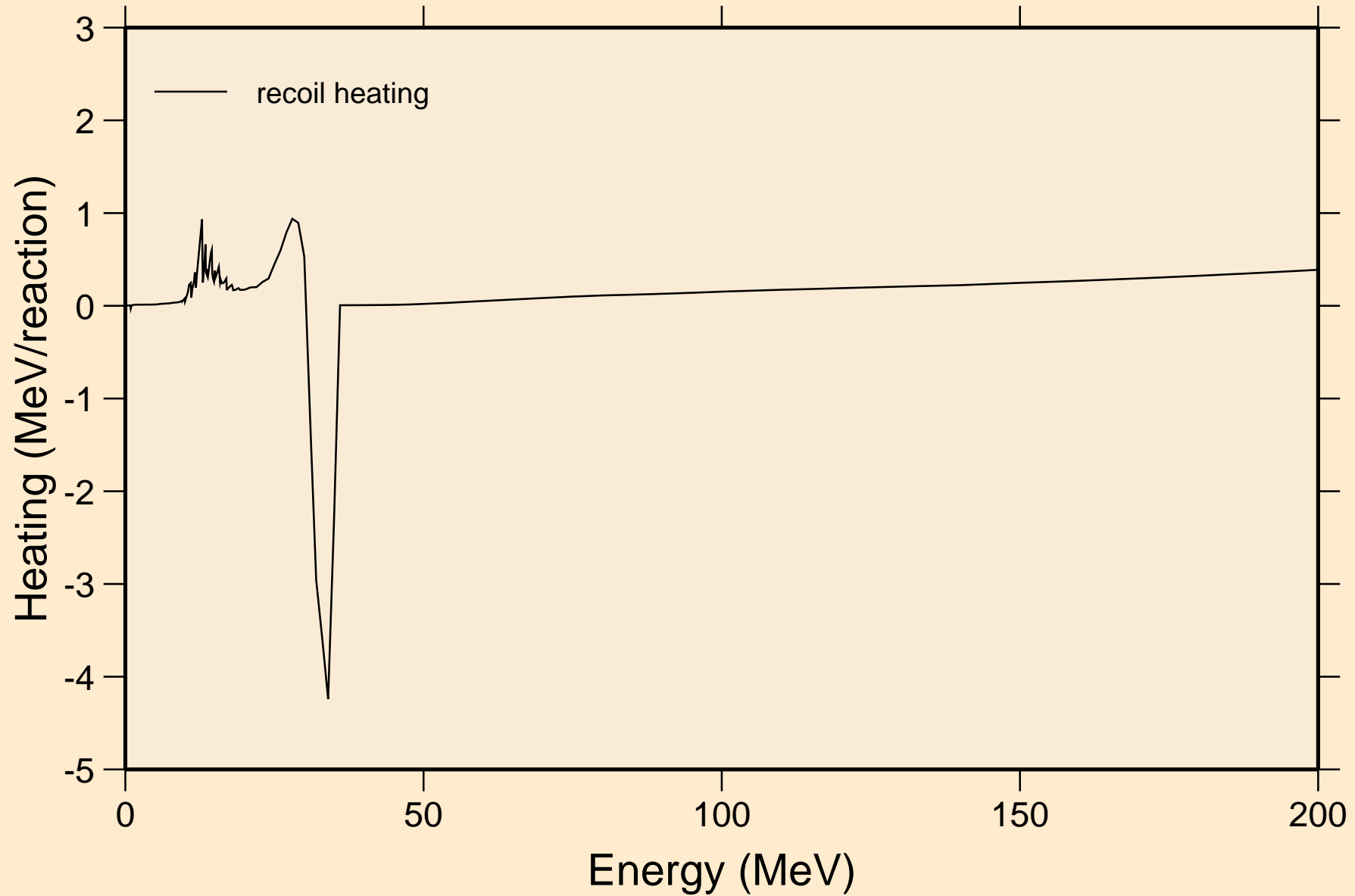
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14 MeV photon spectrum



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Particle heating contributions

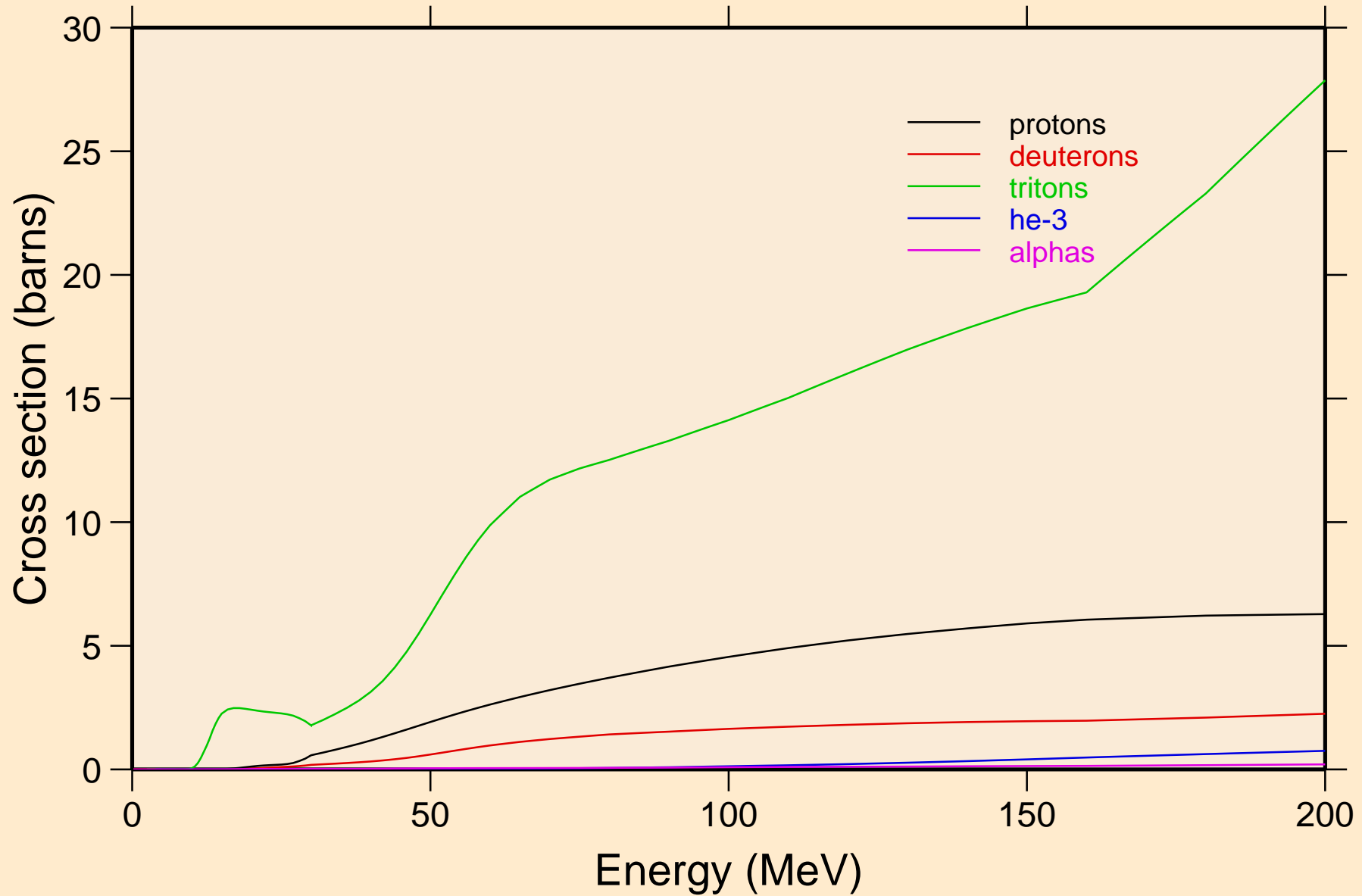


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating



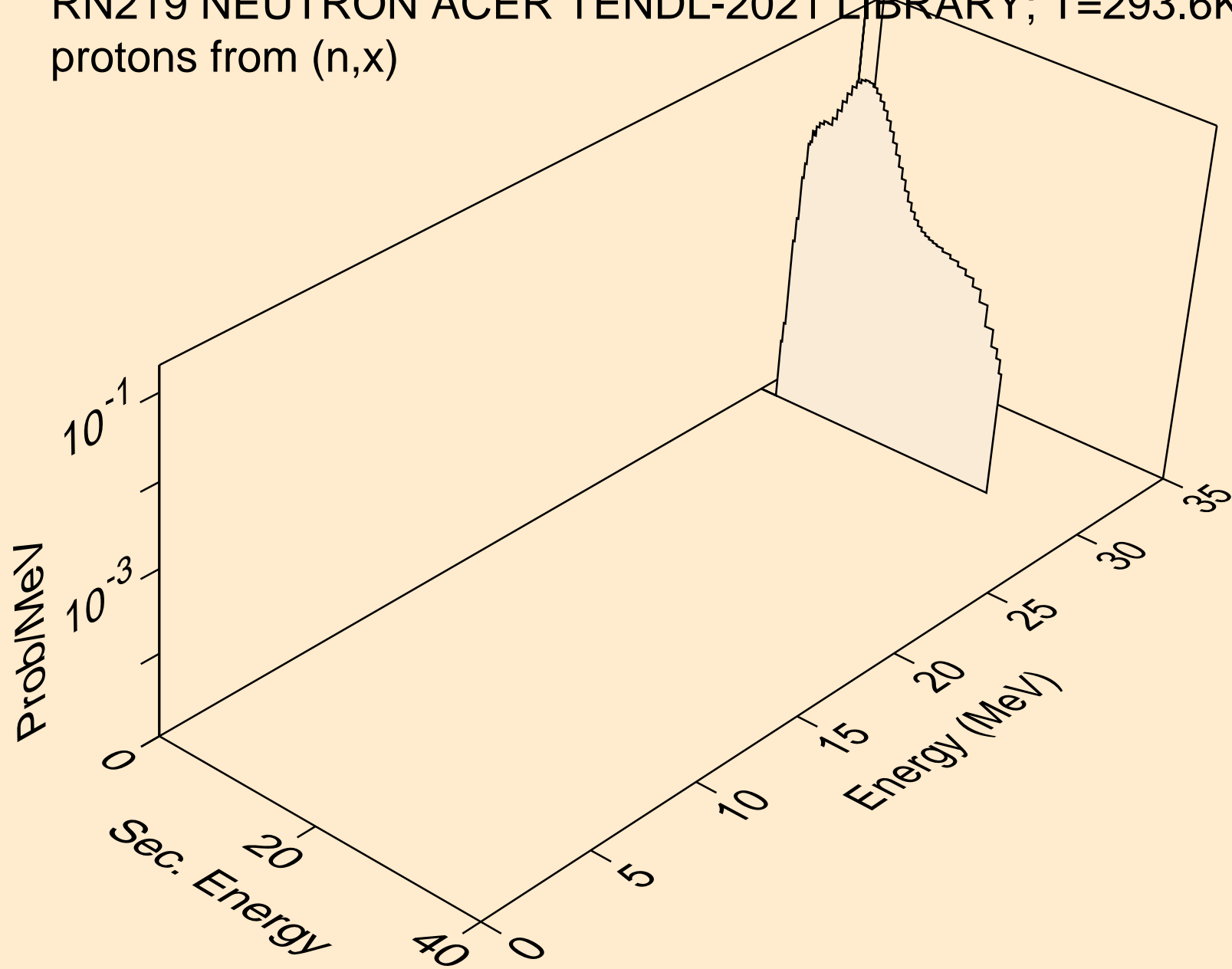
# RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Particle production cross sections

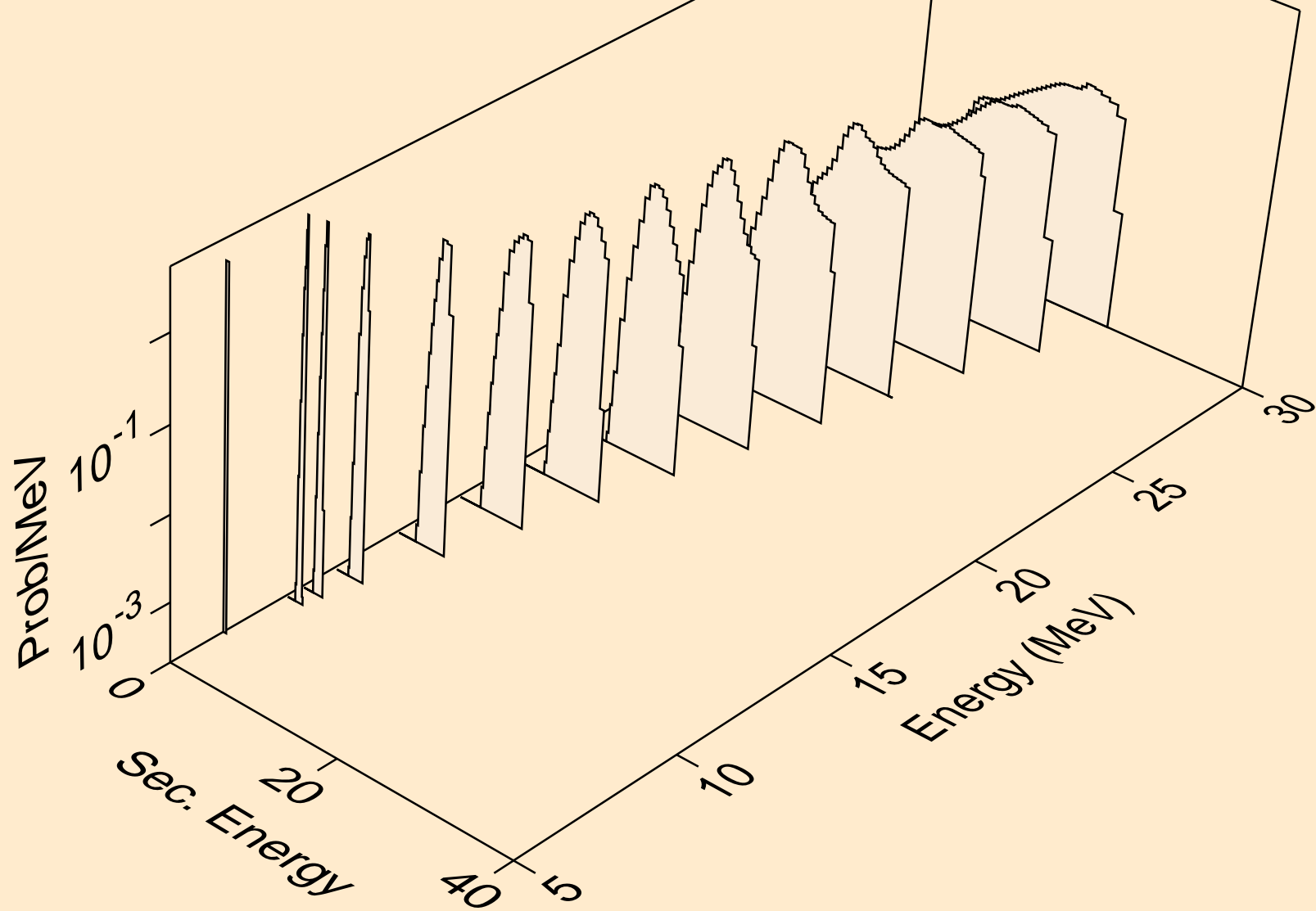




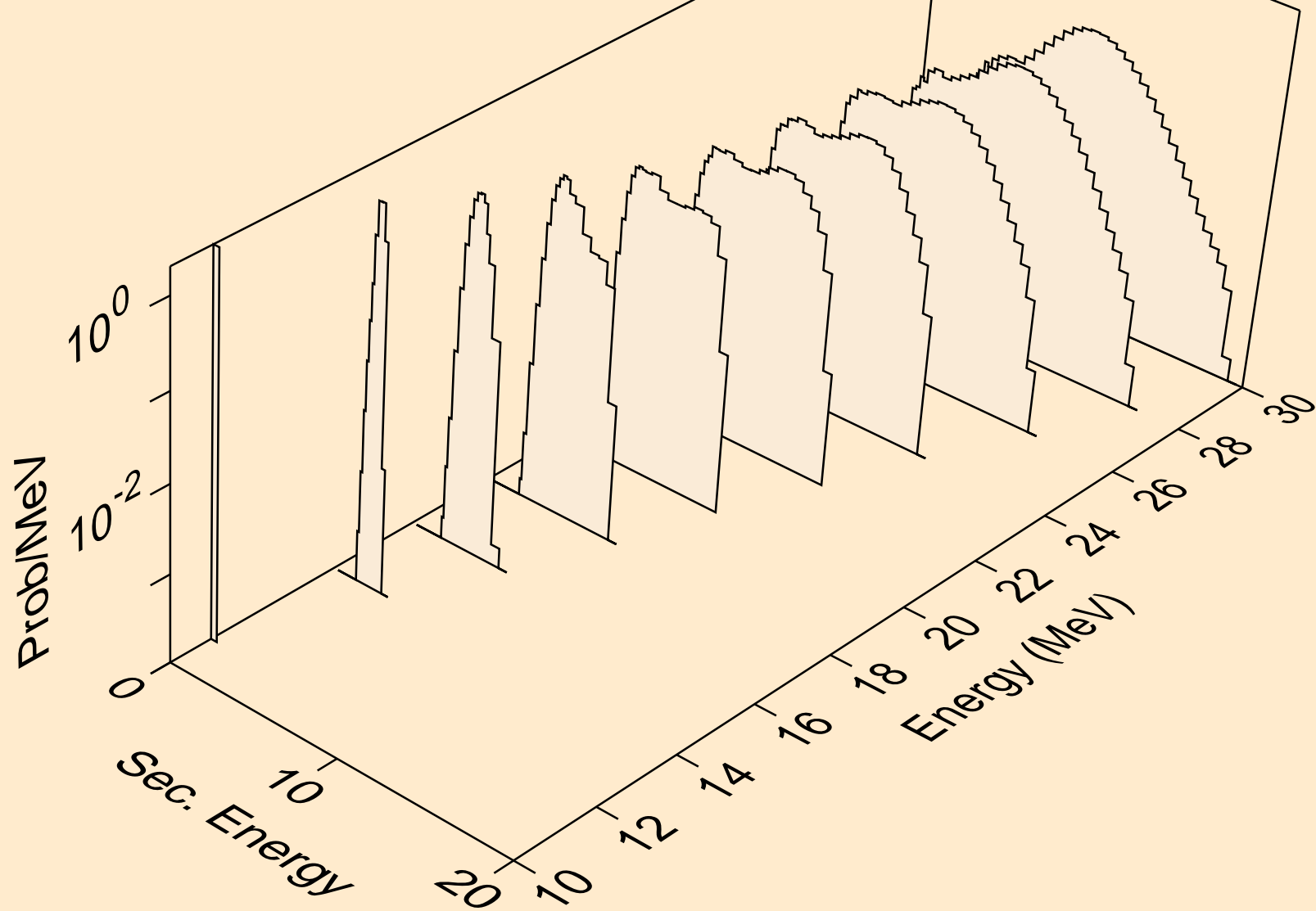
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



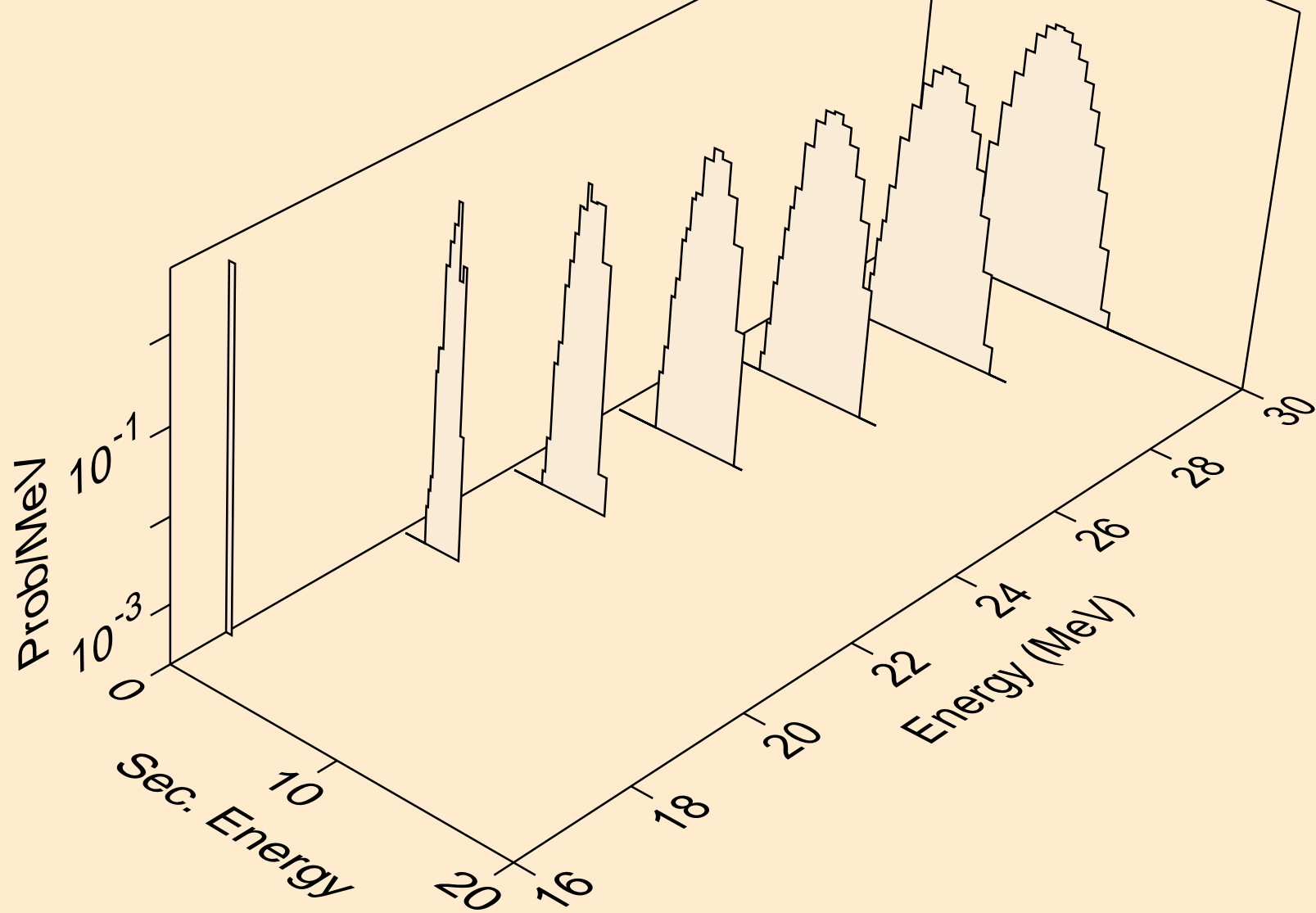
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protons from (n,n\*)p



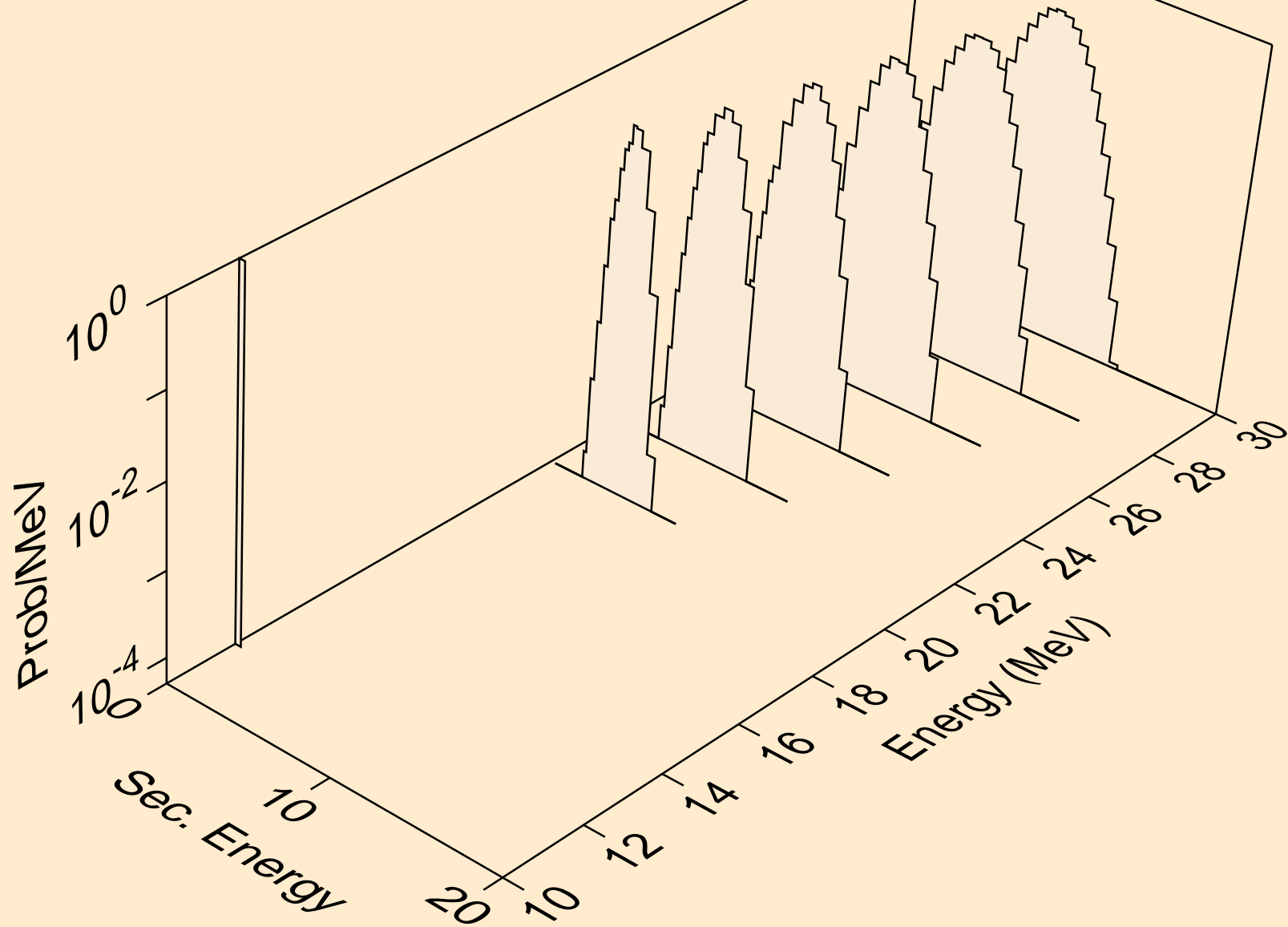
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protons from (n,2np)



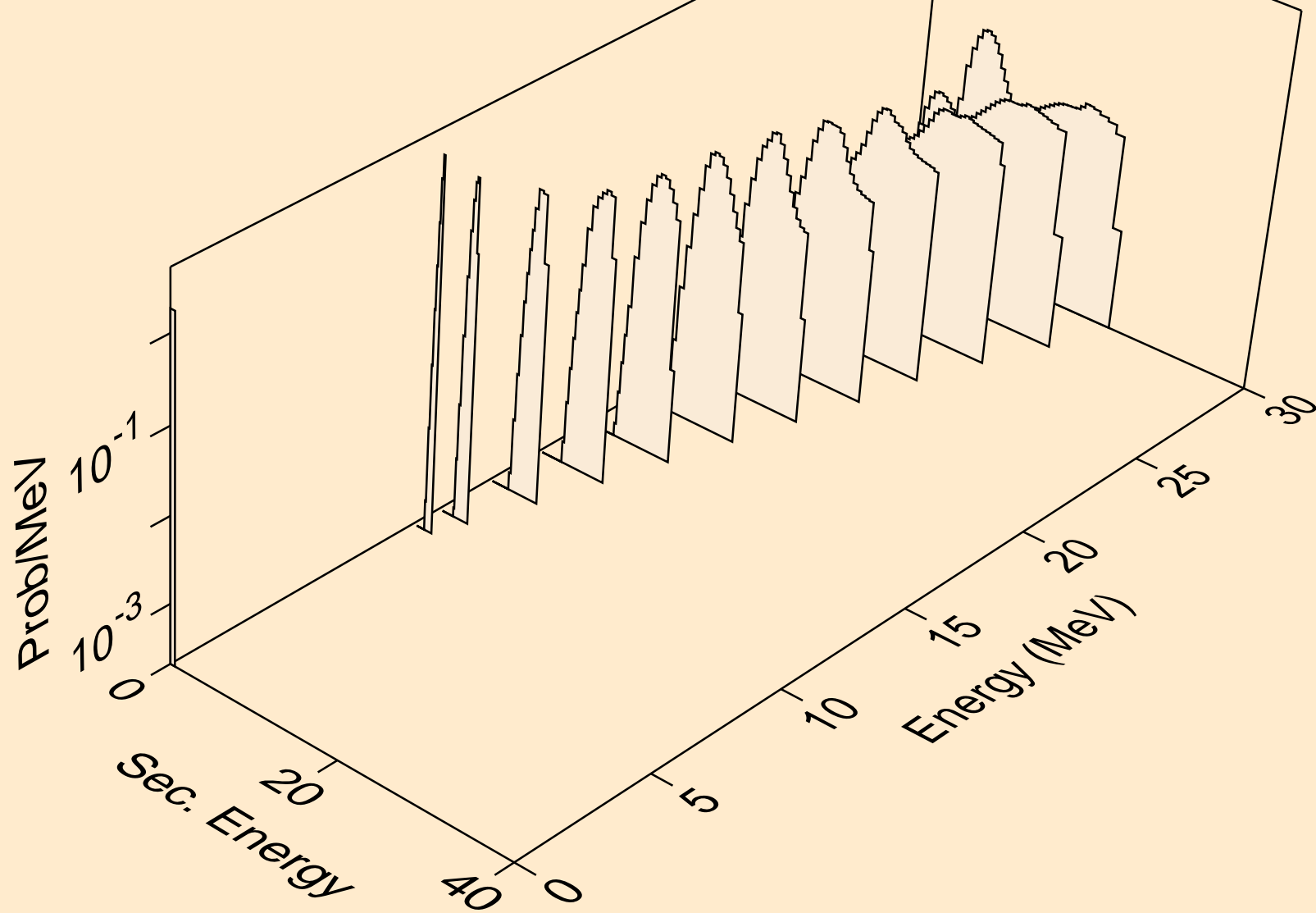
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protons from (n,3np)



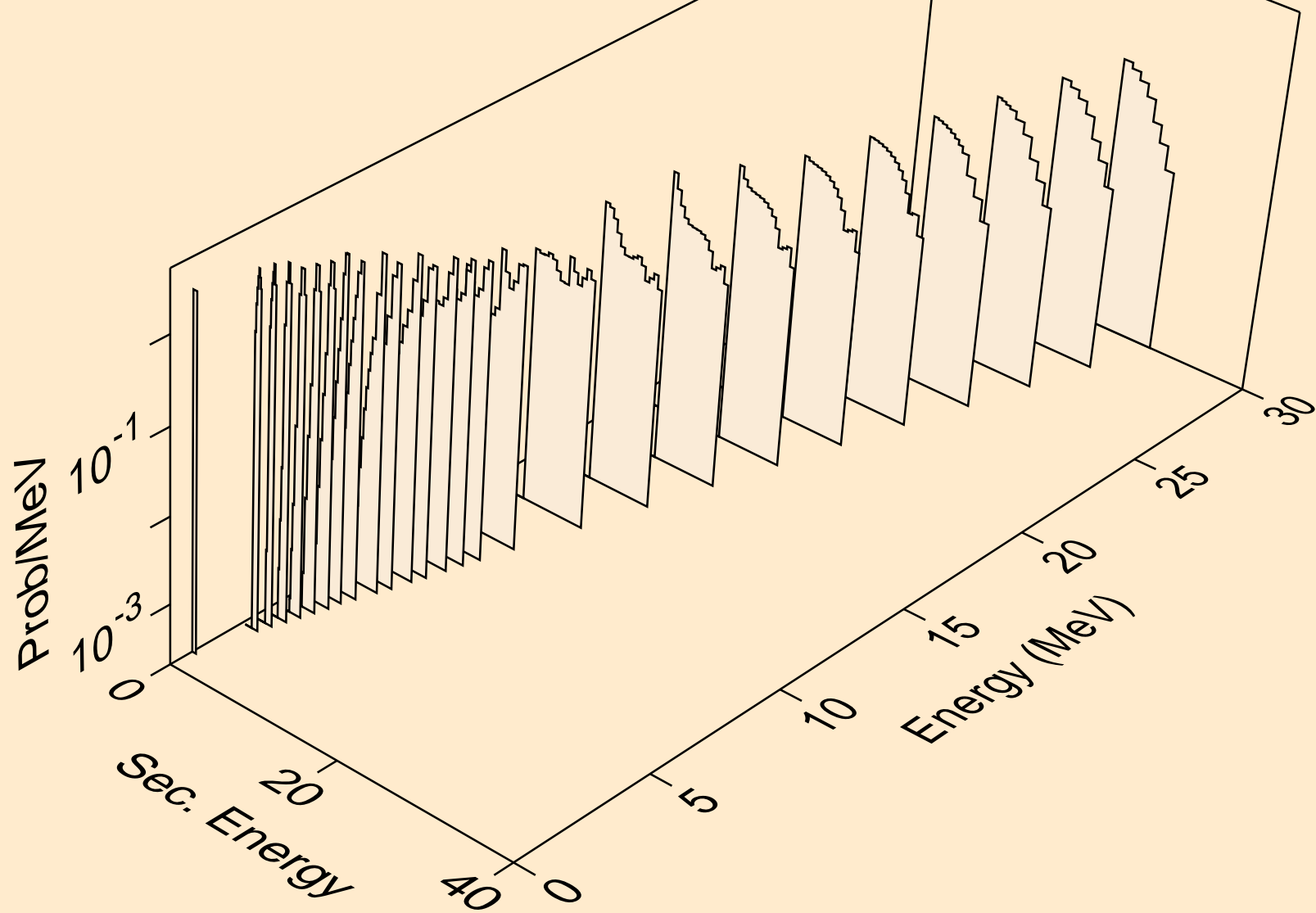
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protons from (n,2np)



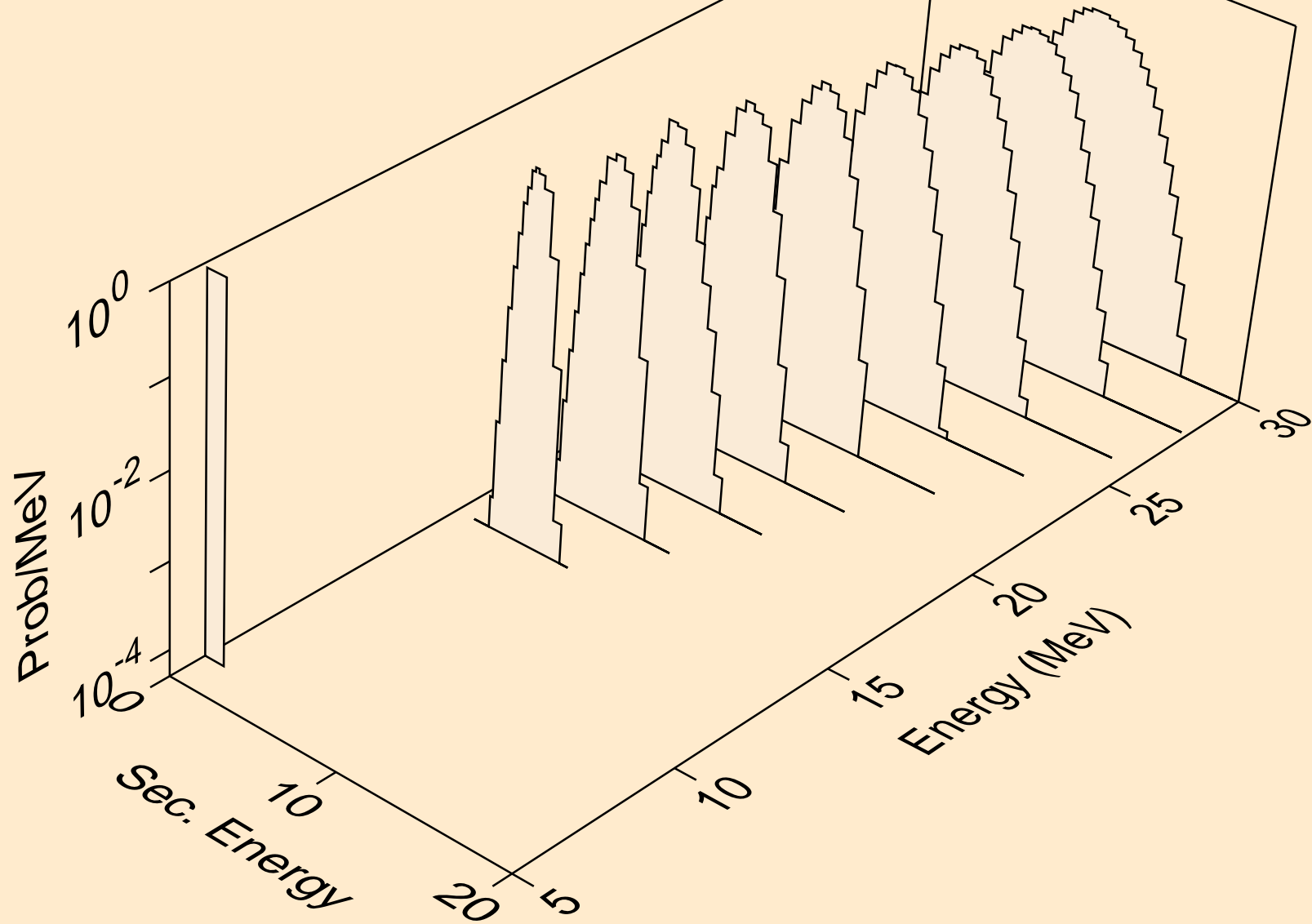
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protons from (n,npa)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

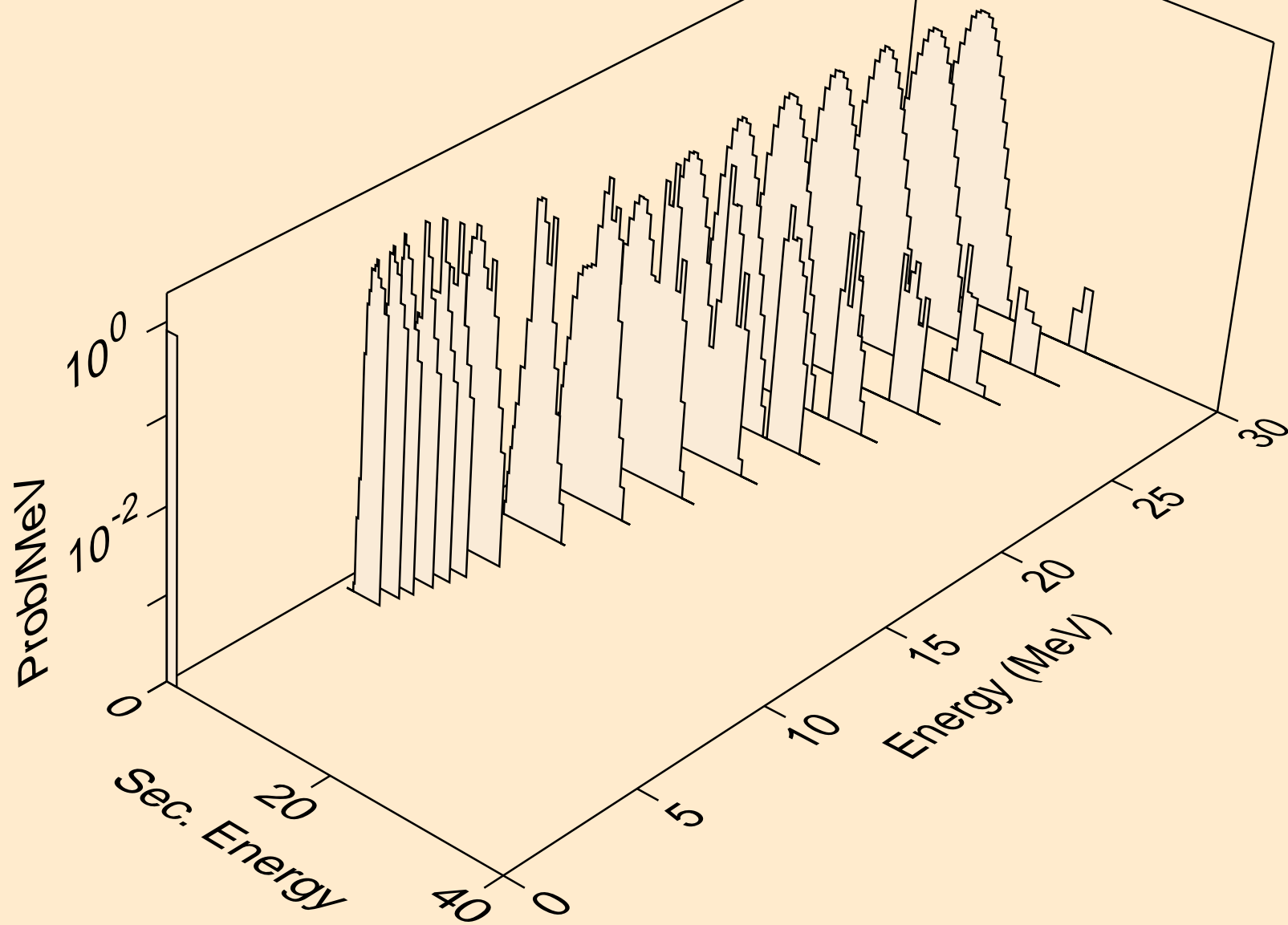


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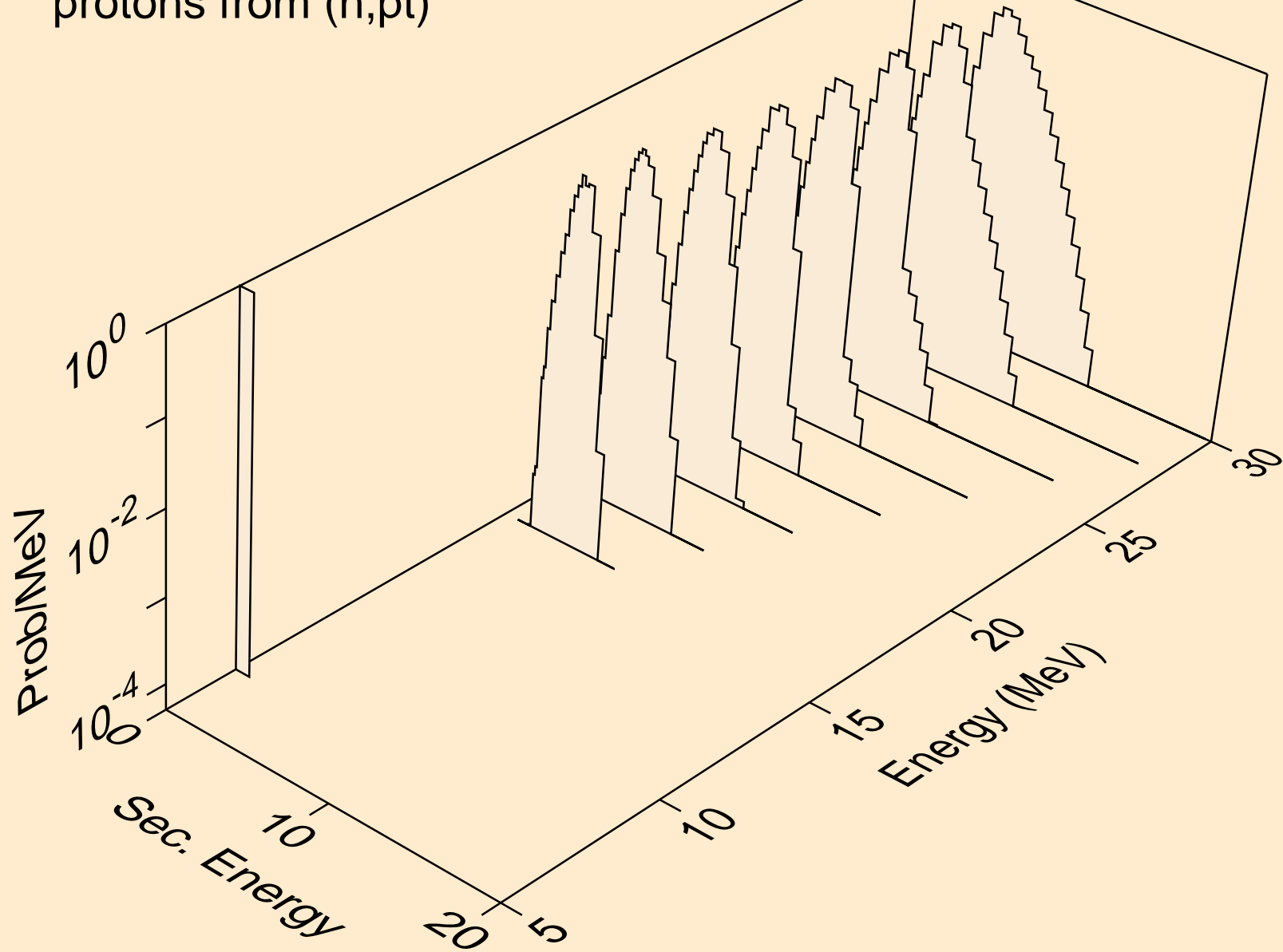




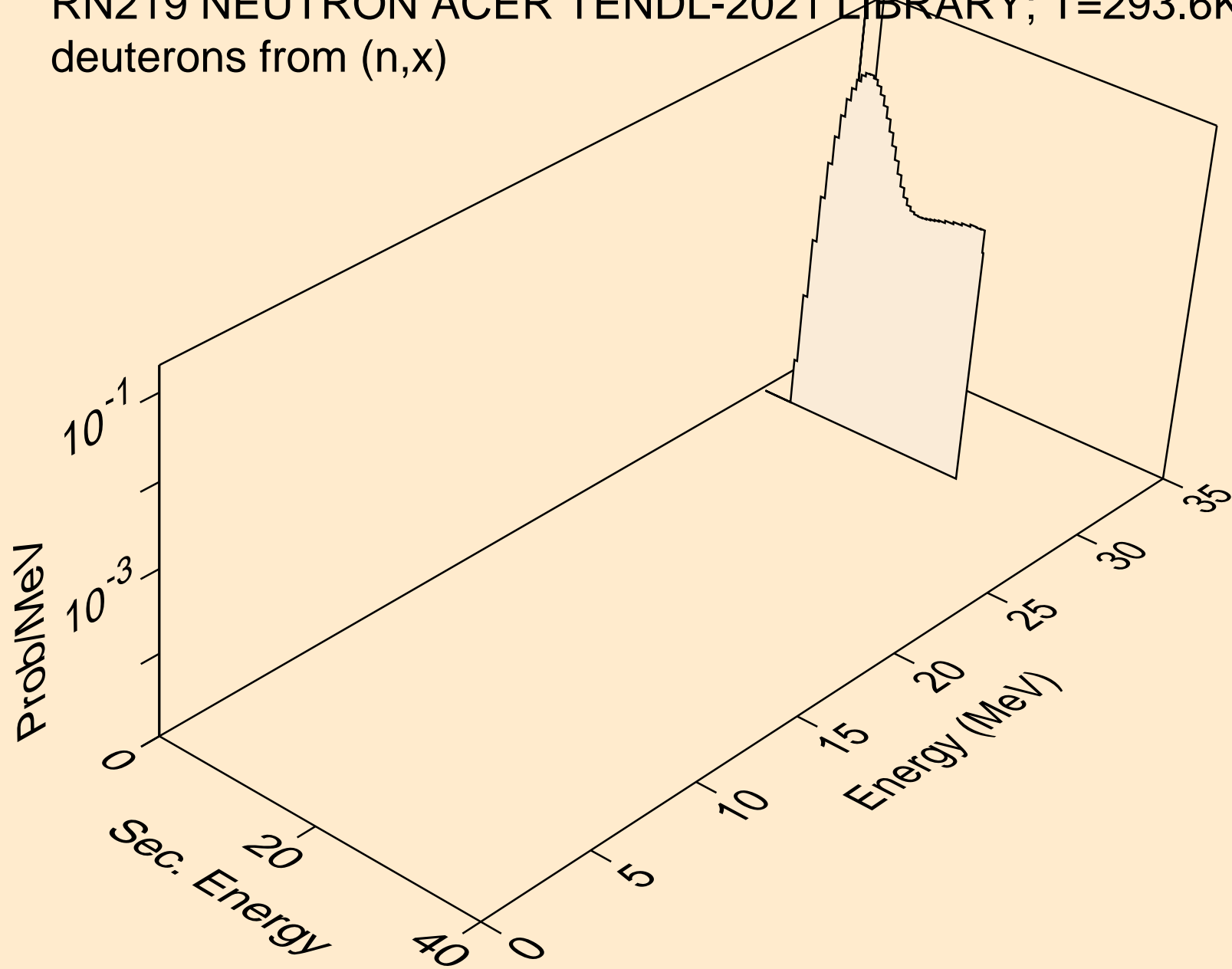
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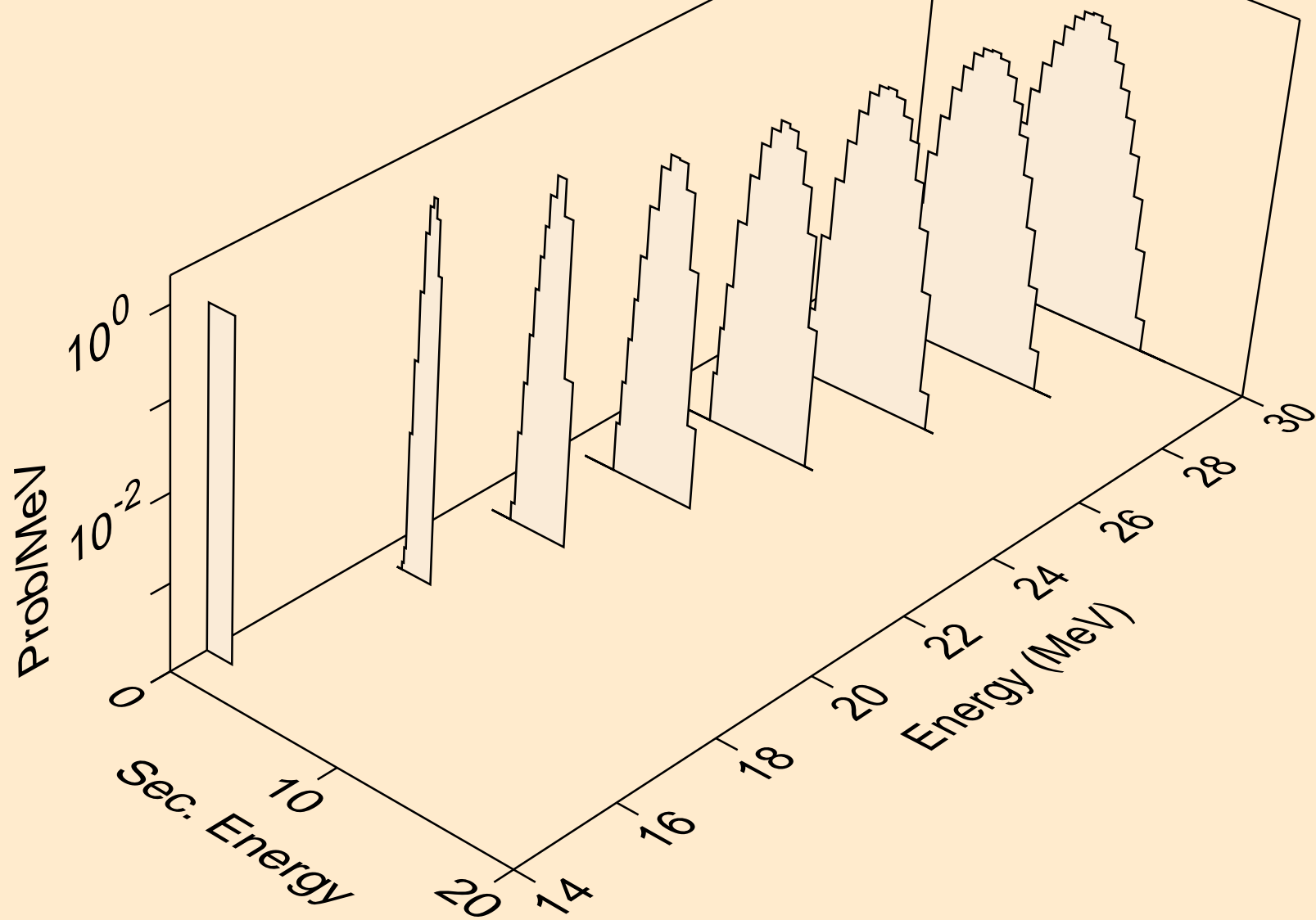
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protons from (n,pt)



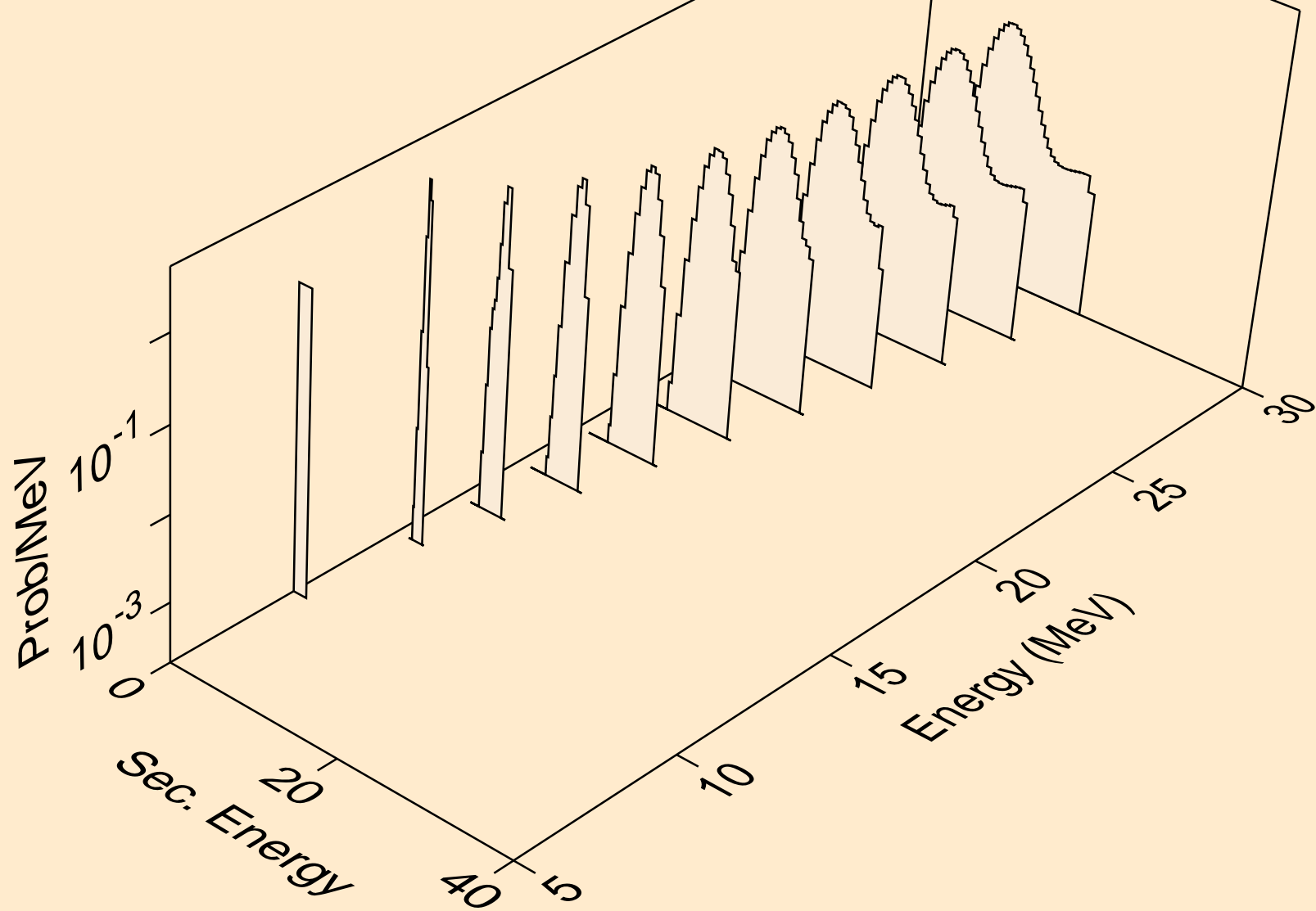
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deuterons from (n,x)



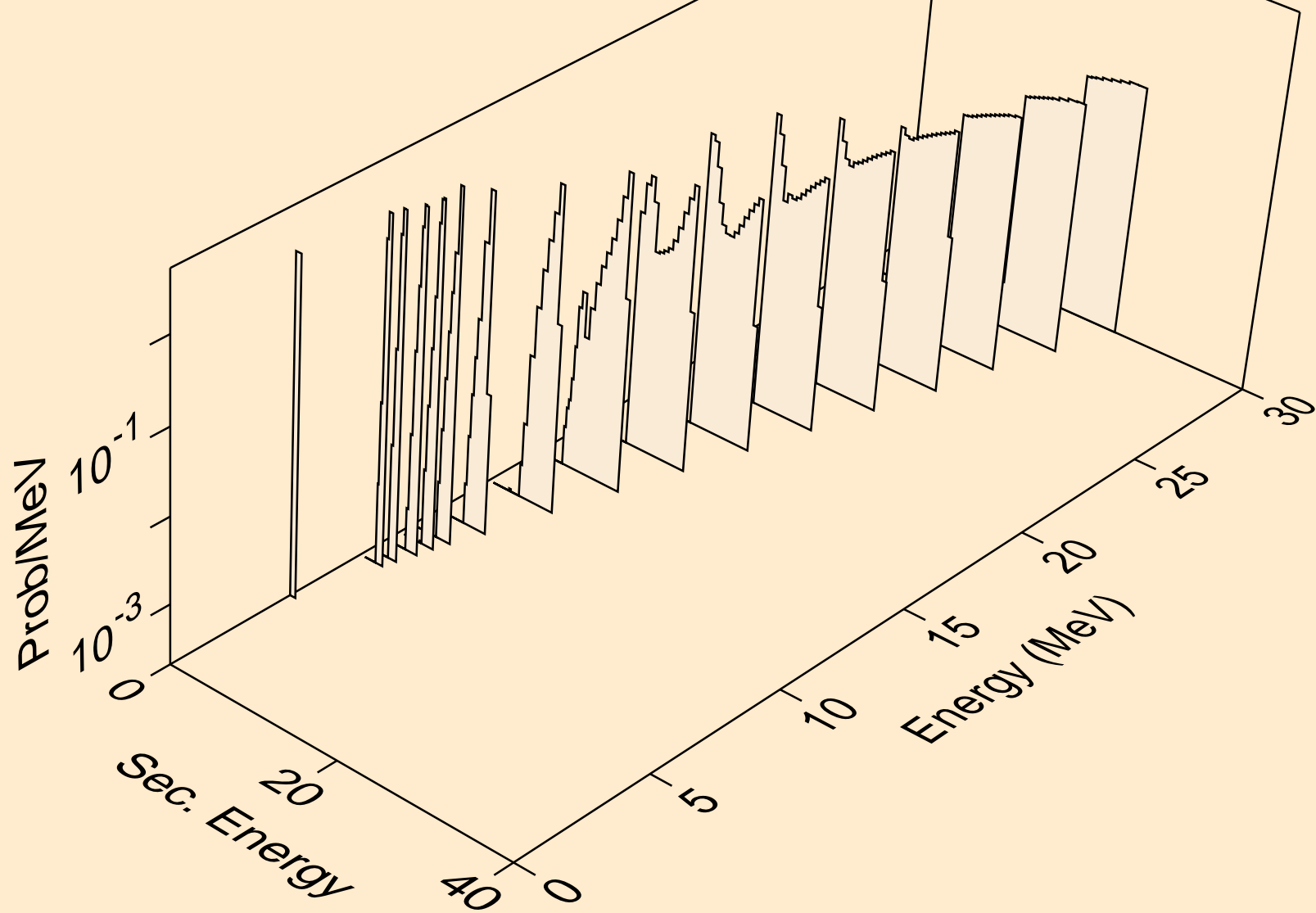
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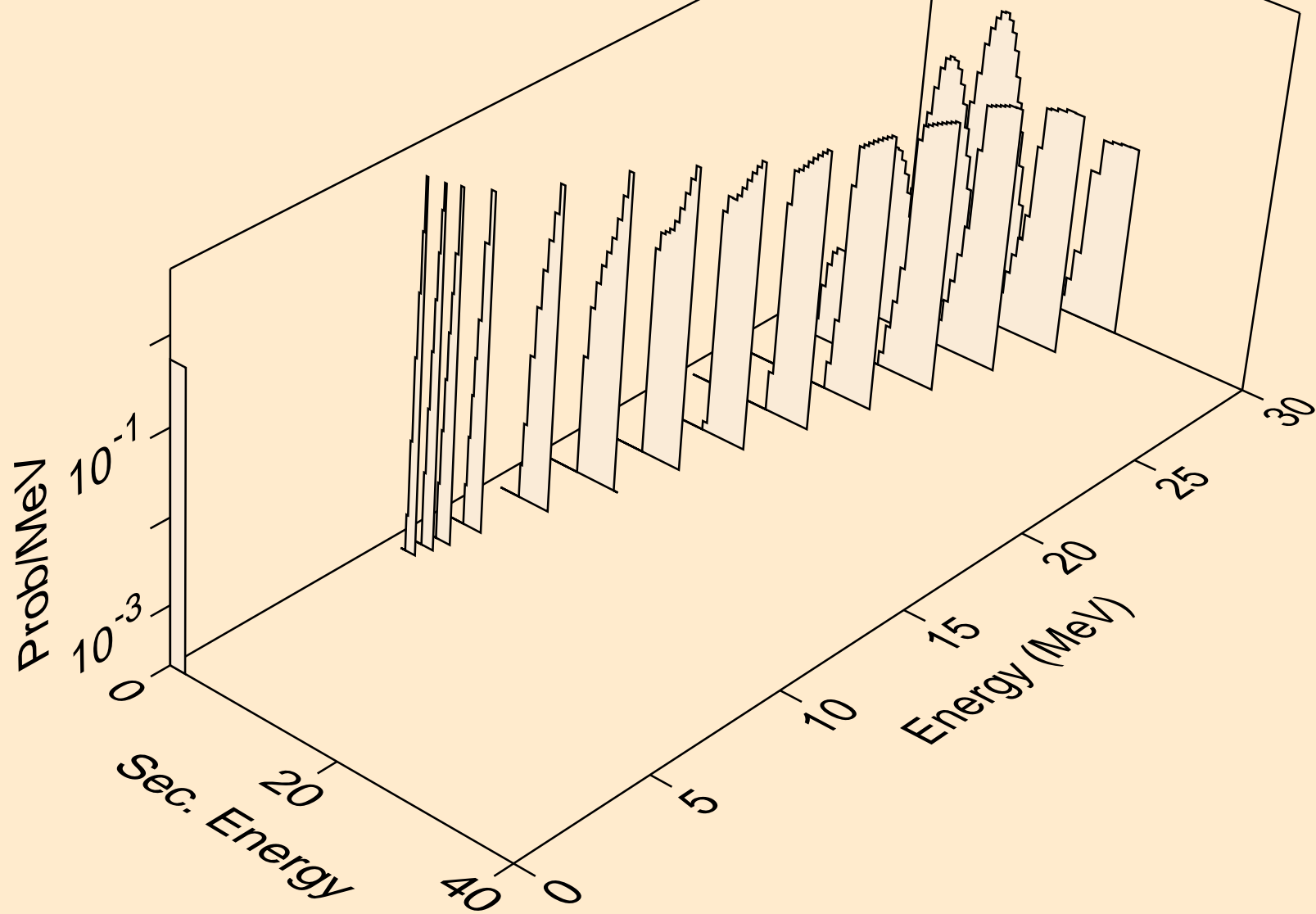
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deuterons from (n,n\*)d



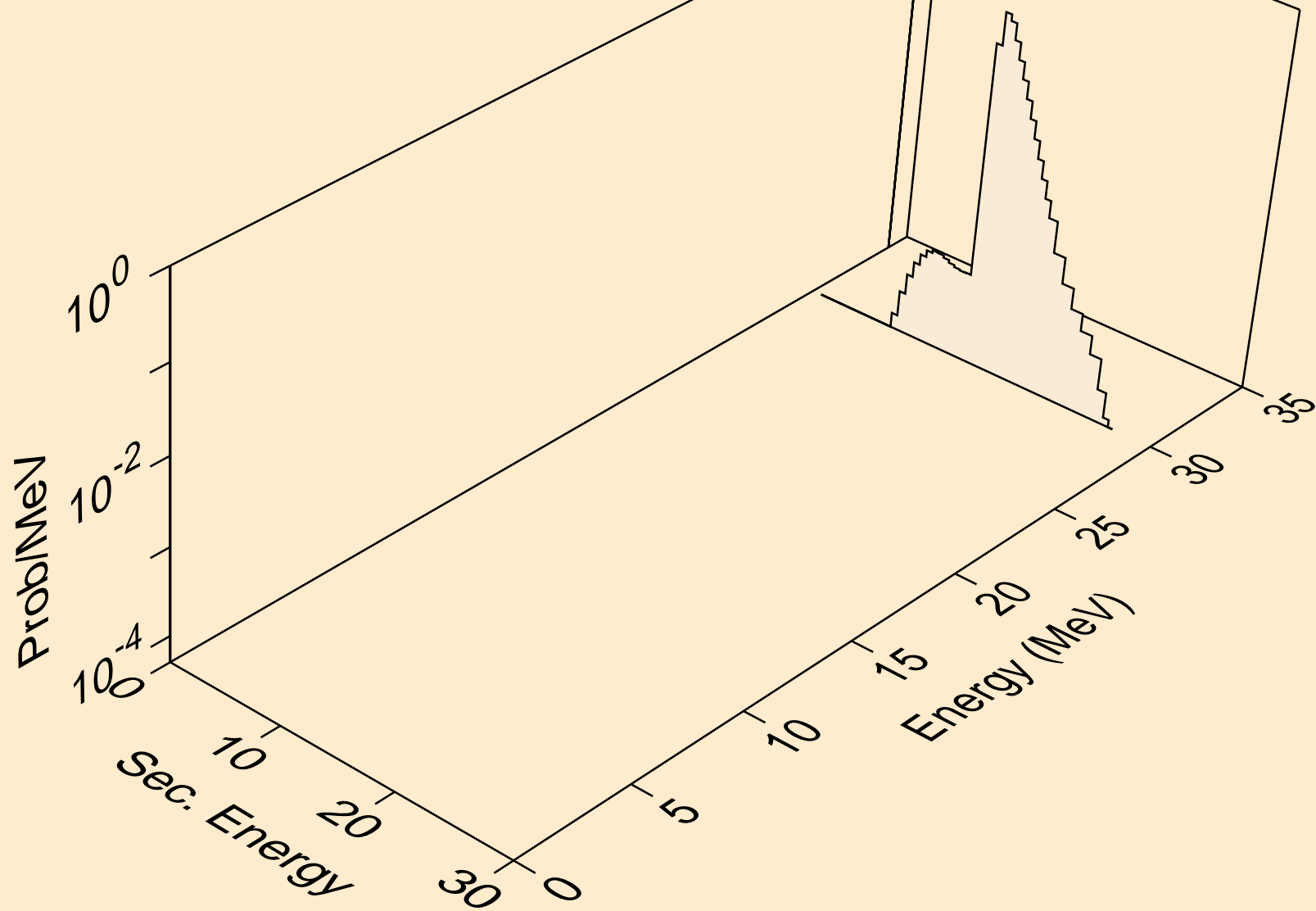
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deuterons from (n,d)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,da)

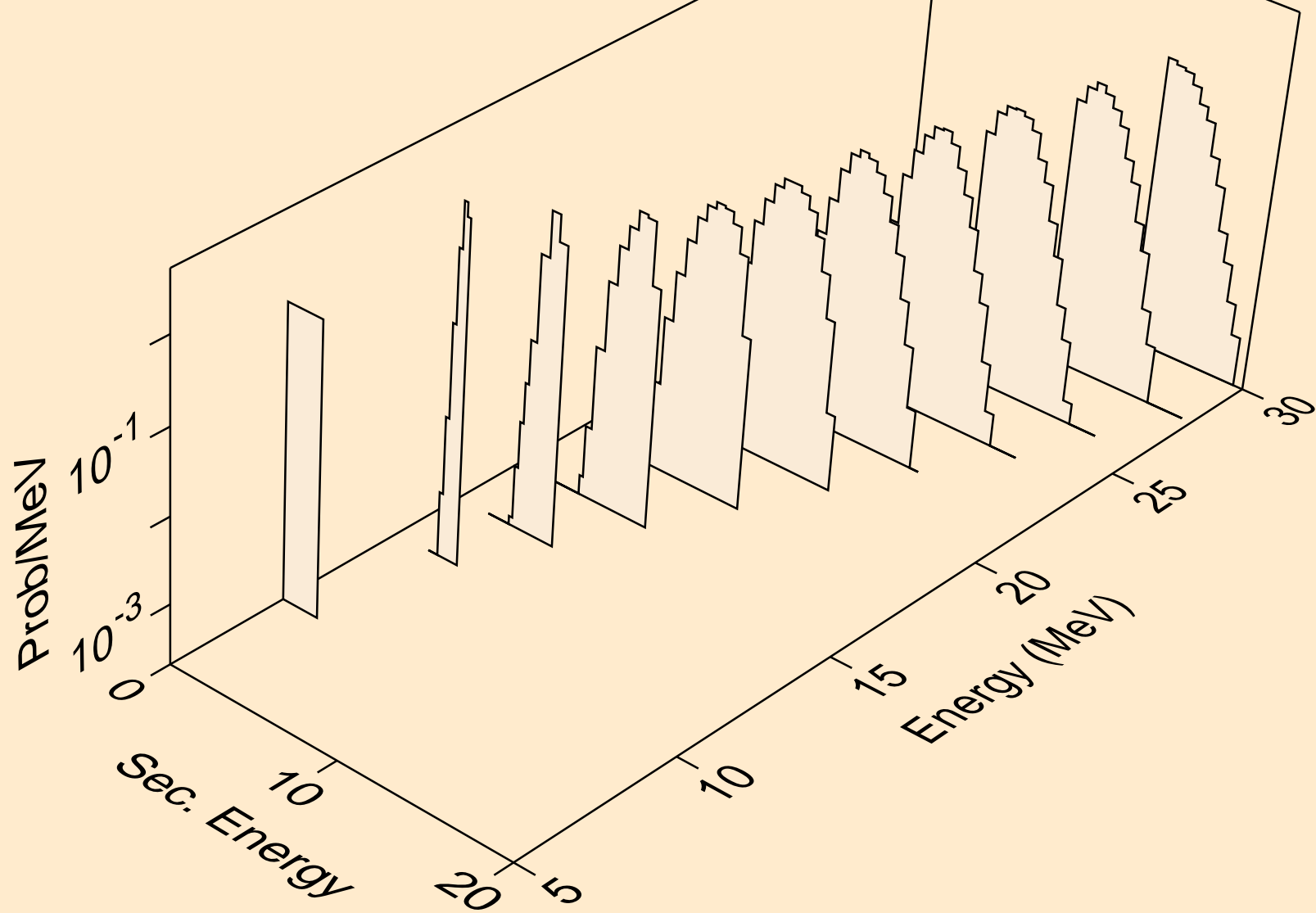


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tritons from (n,x)

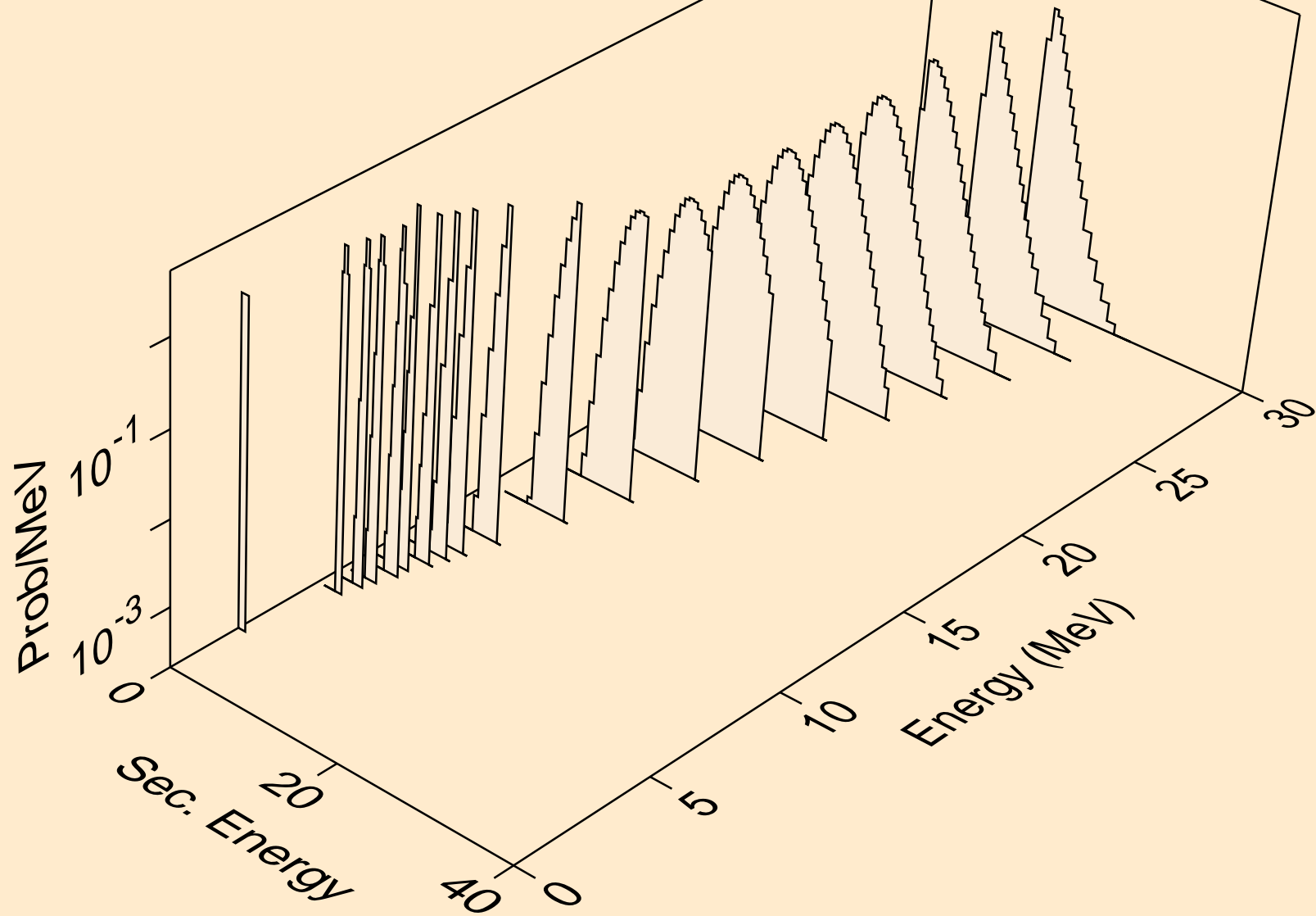




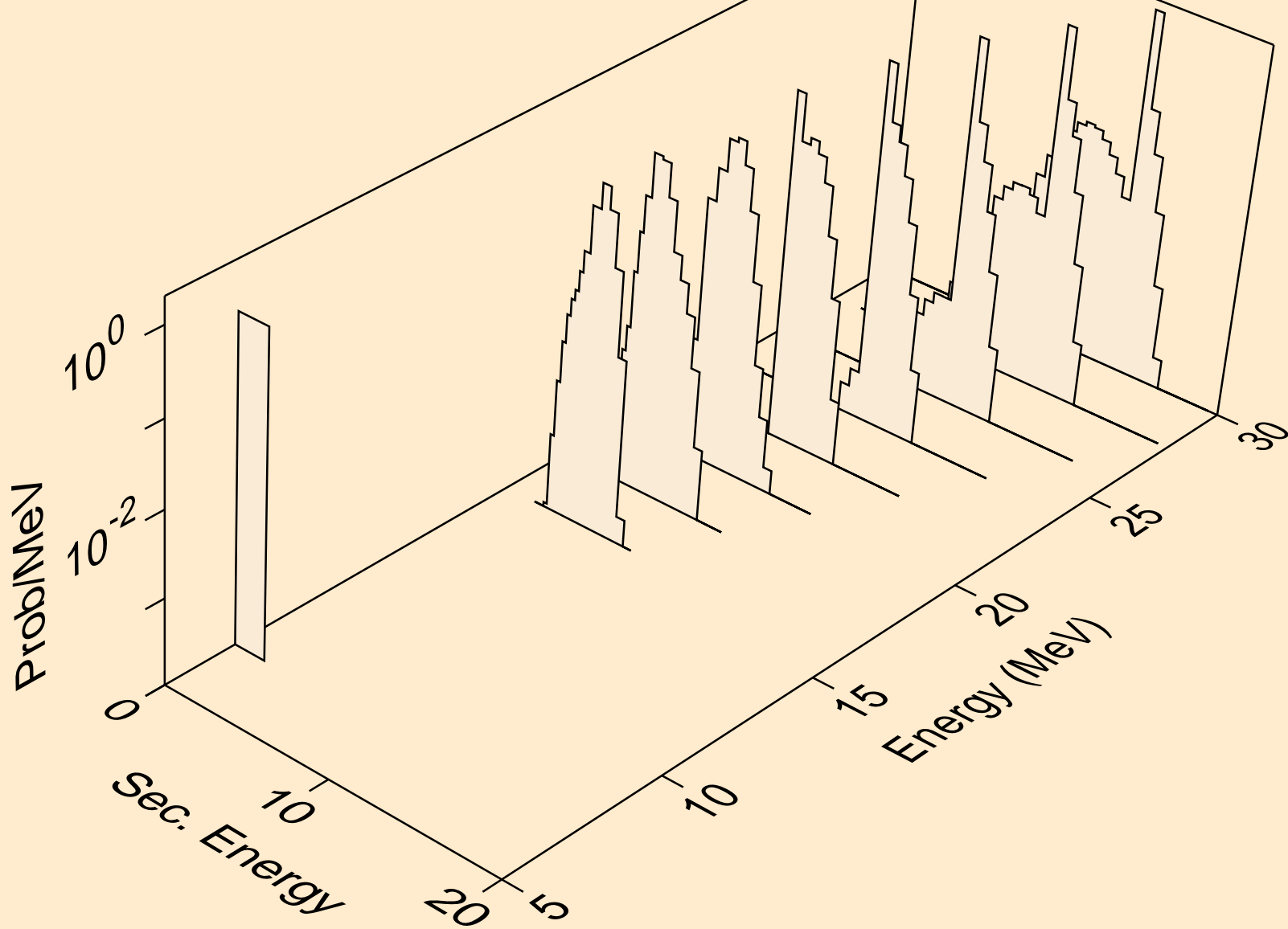
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tritons from (n,n\*)t



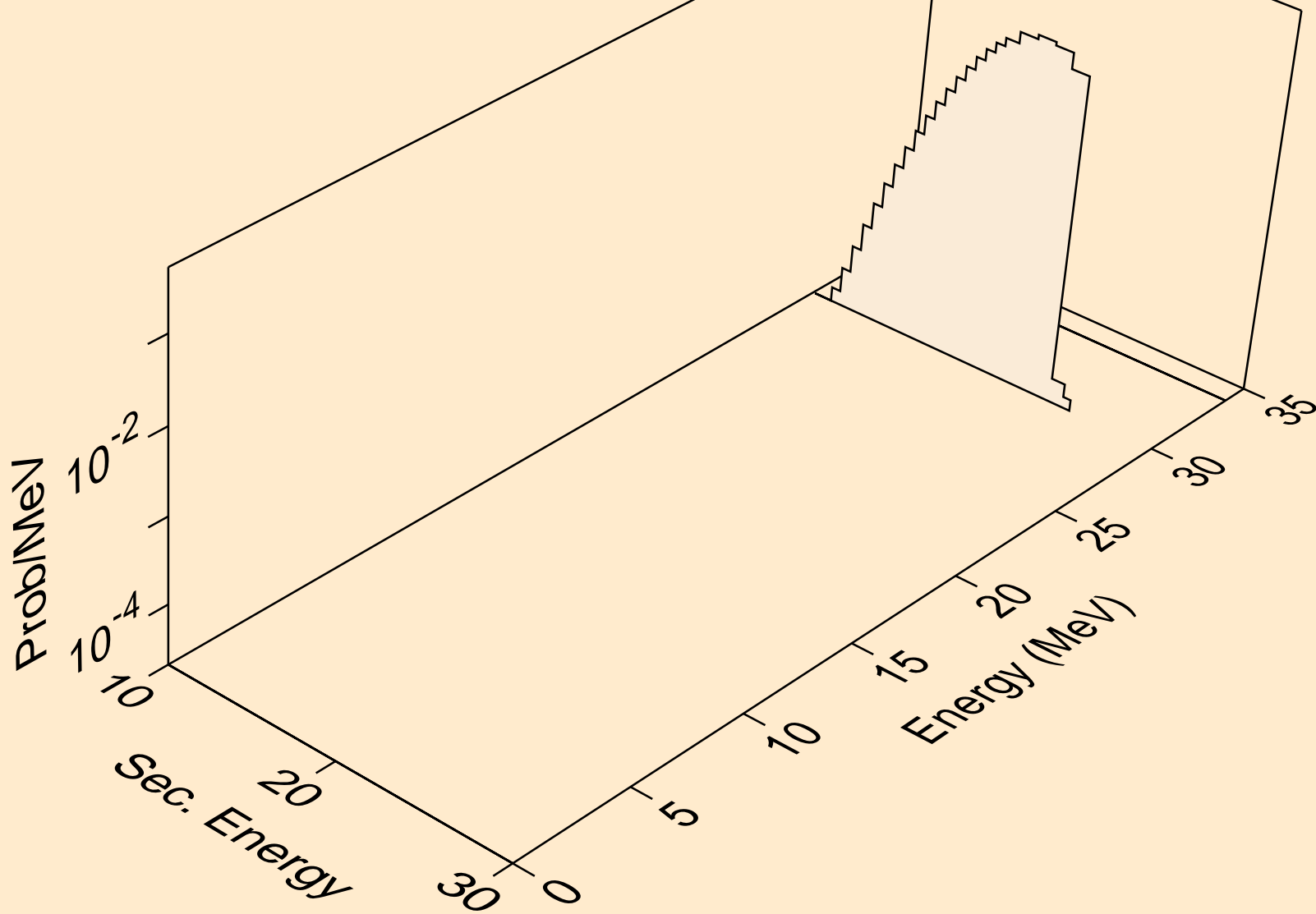
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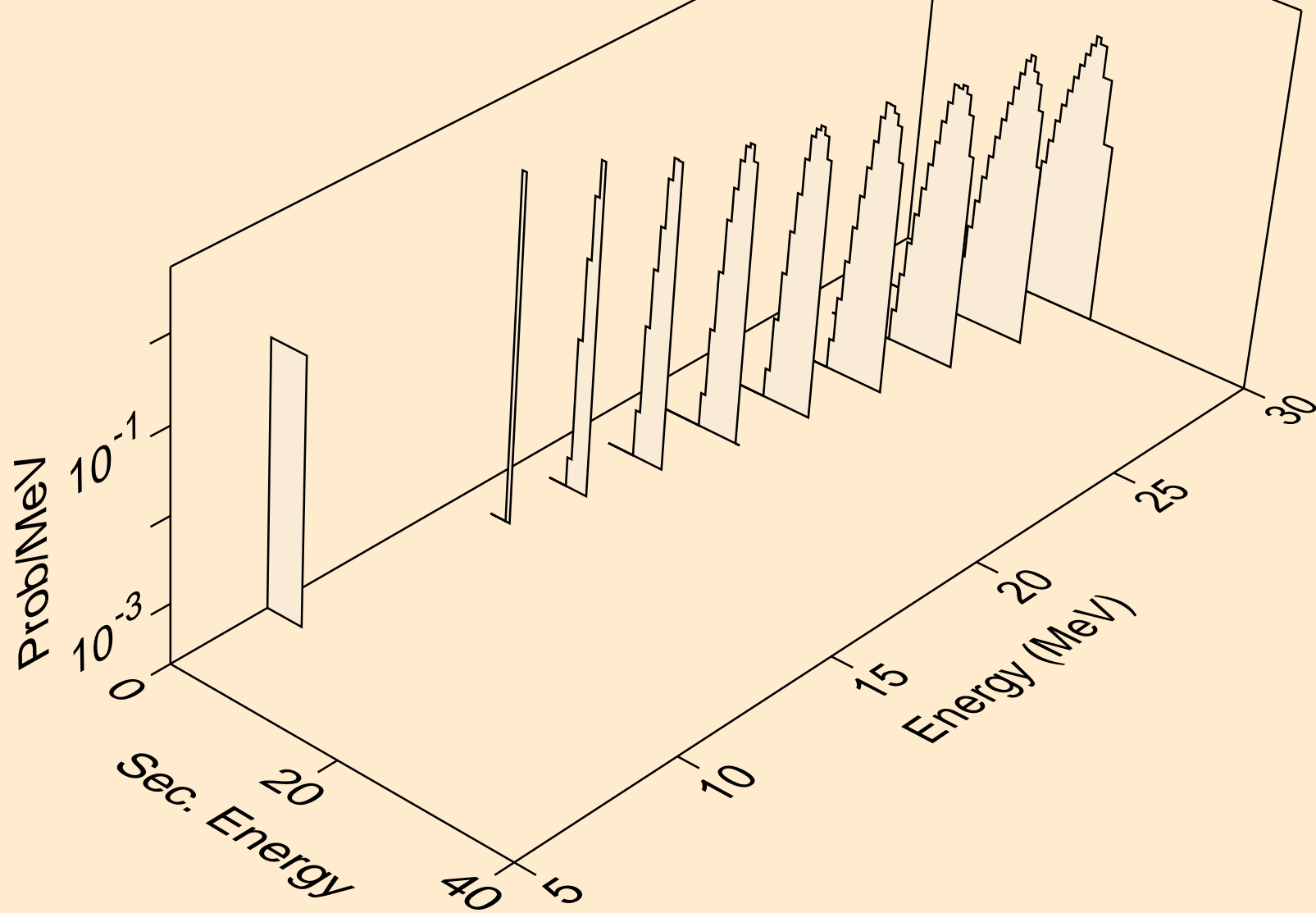
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tritons from (n,pt)



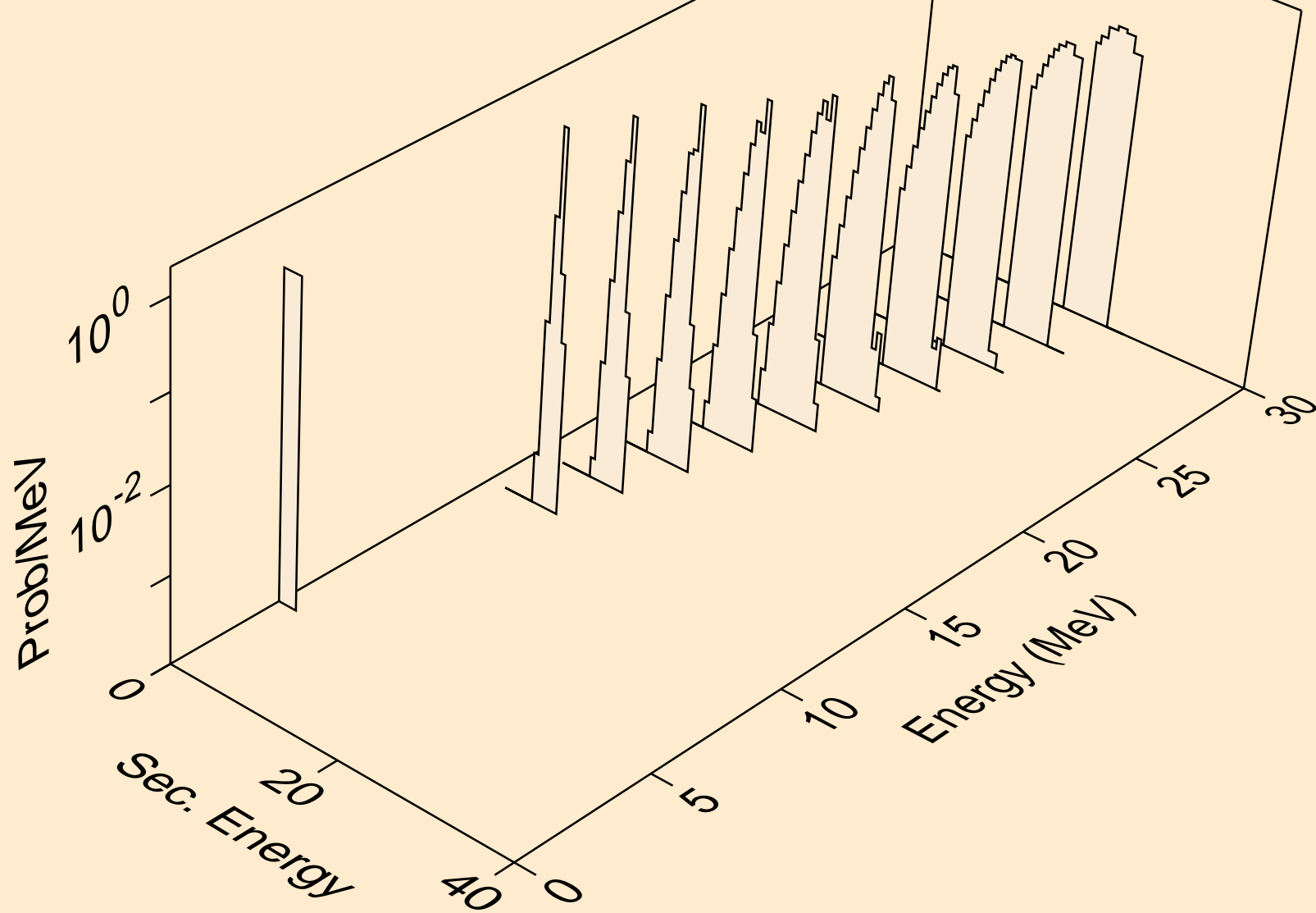
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



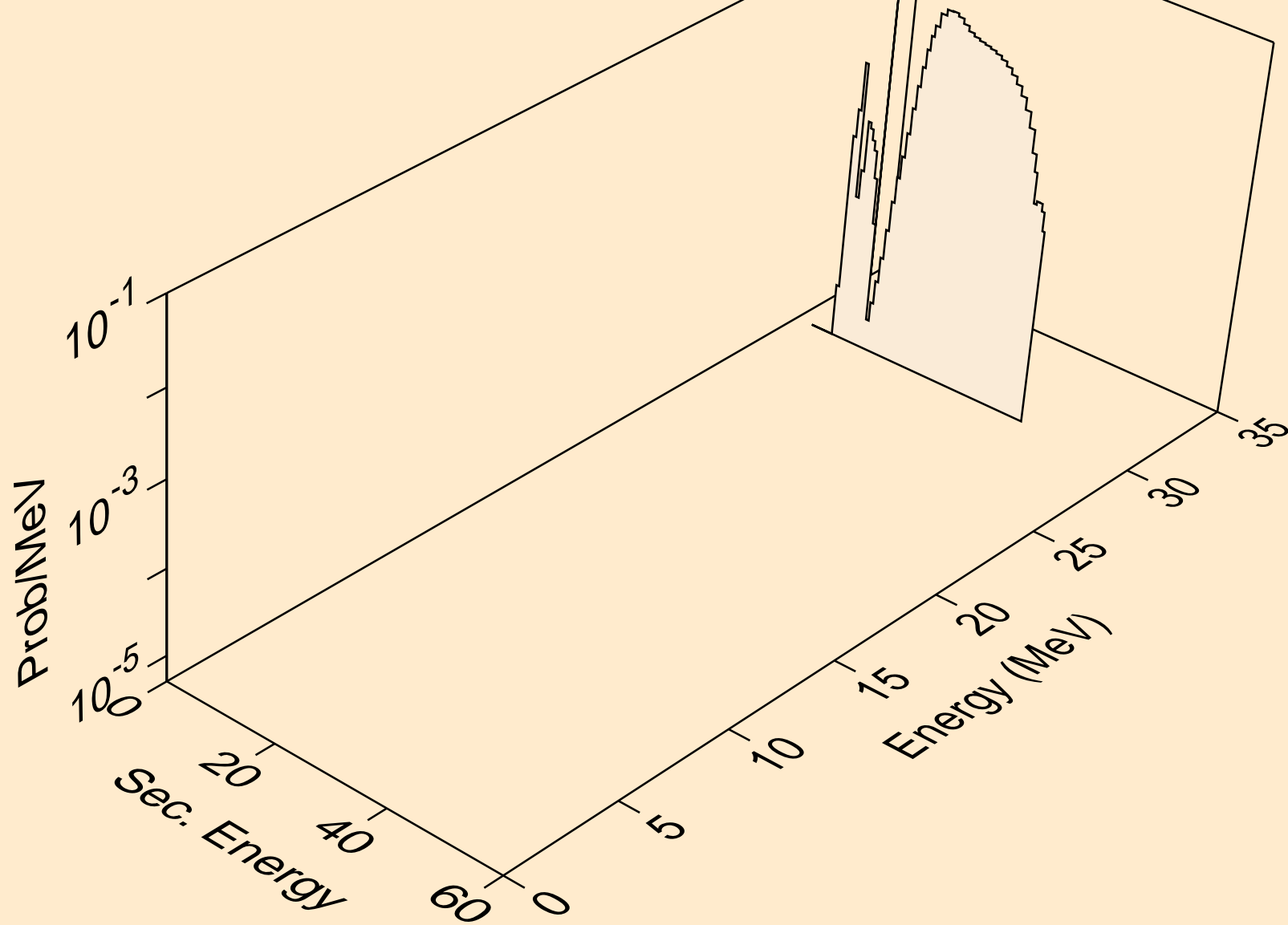
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



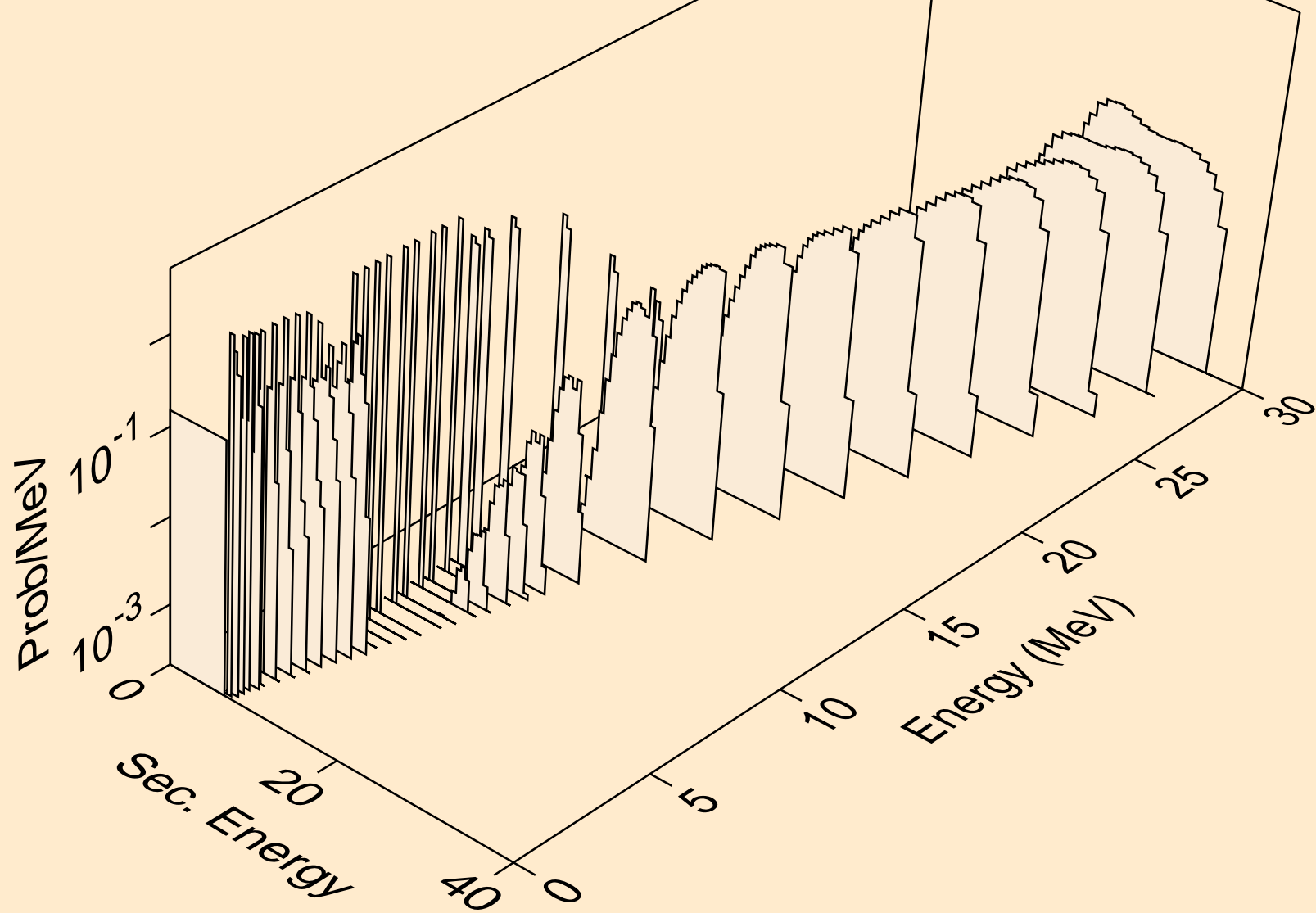
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)

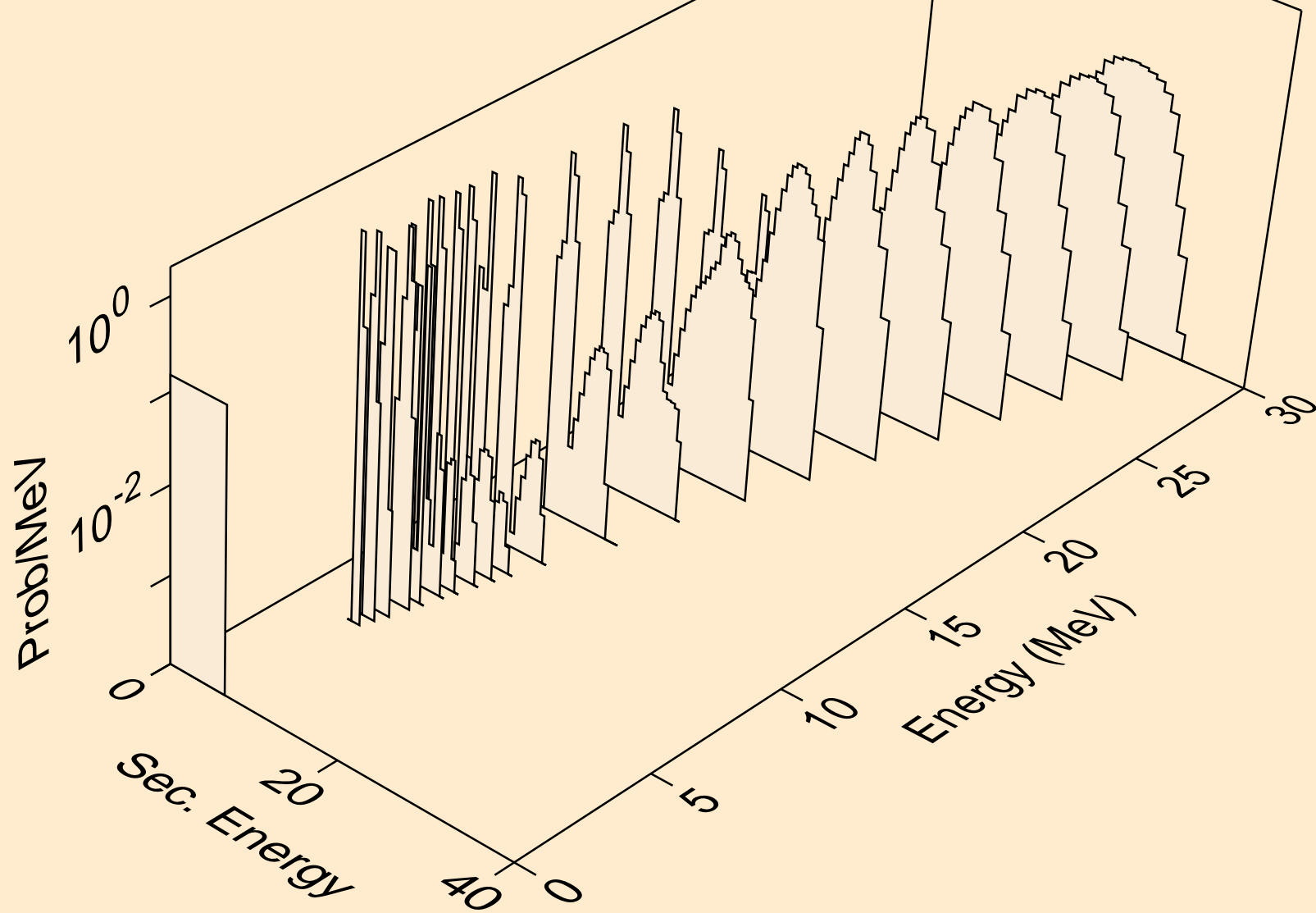


RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a

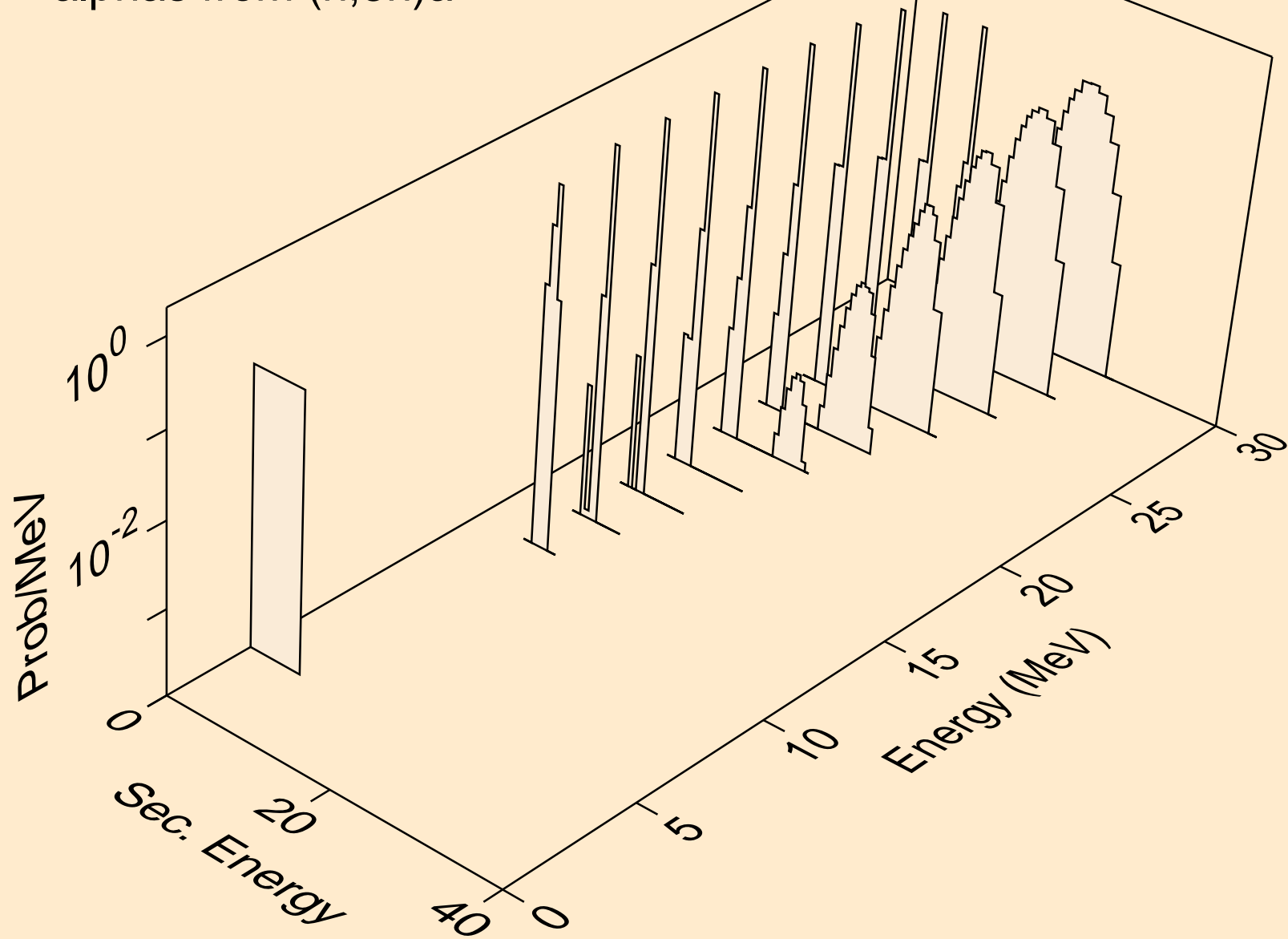




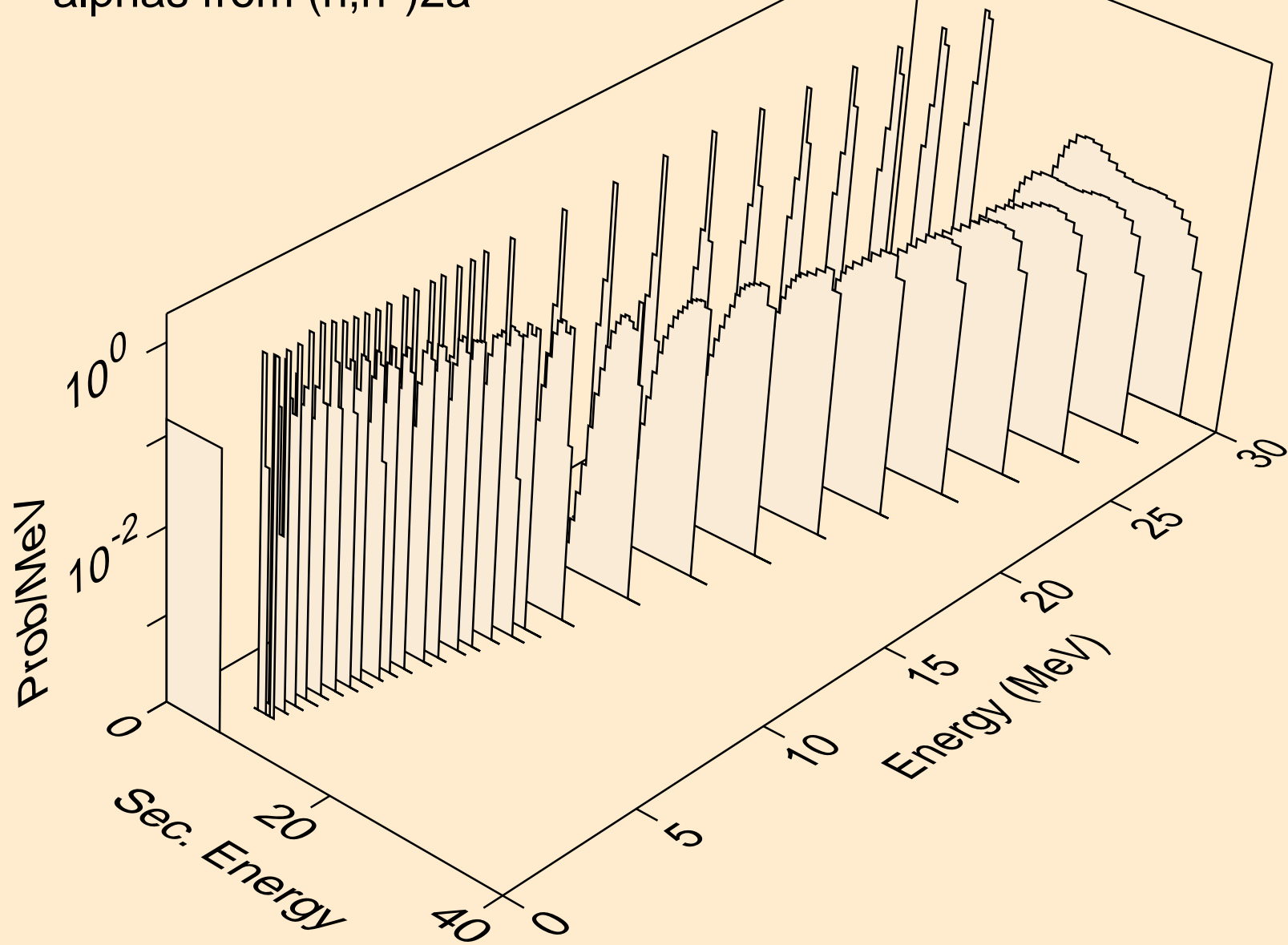
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



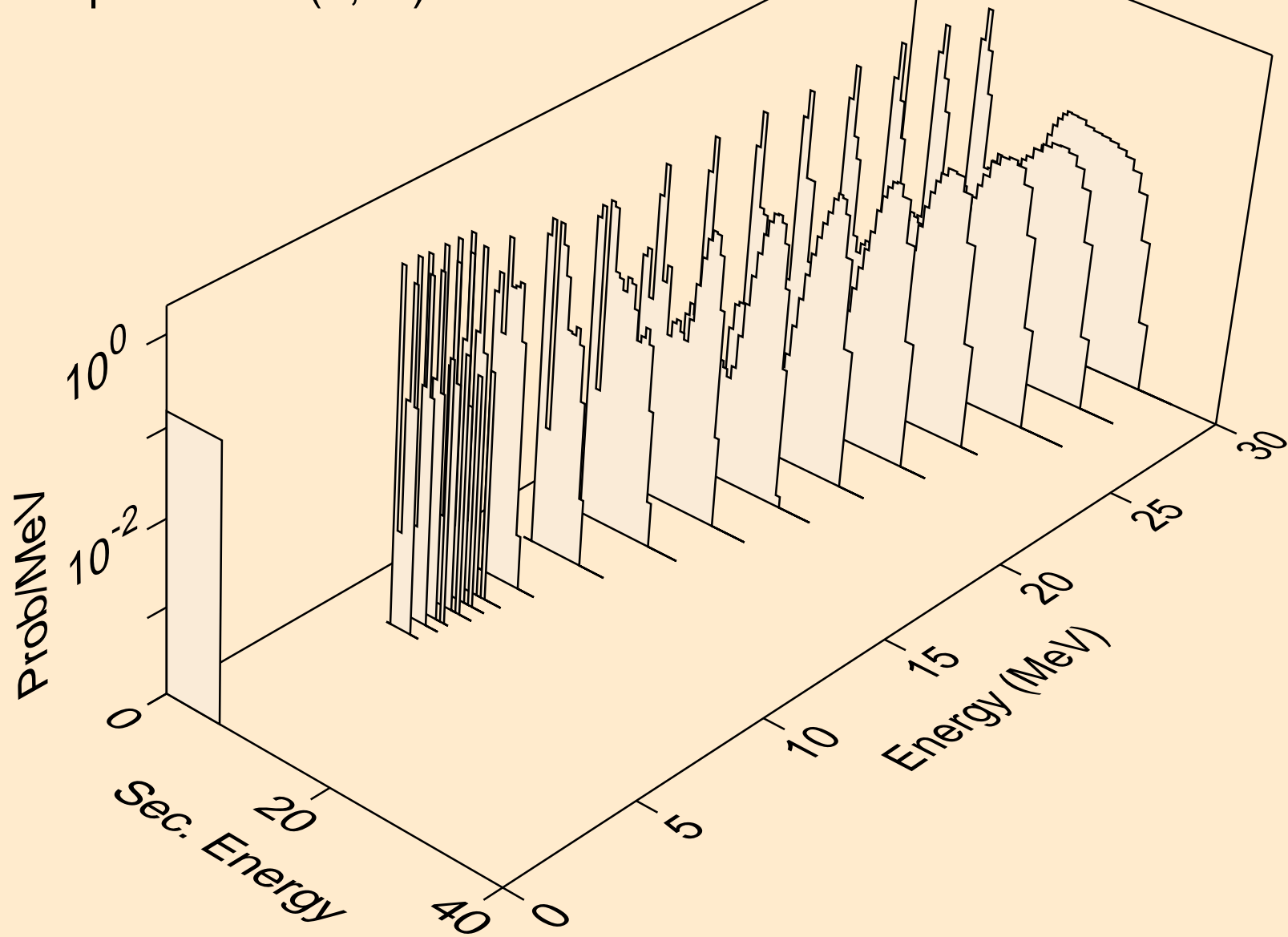
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



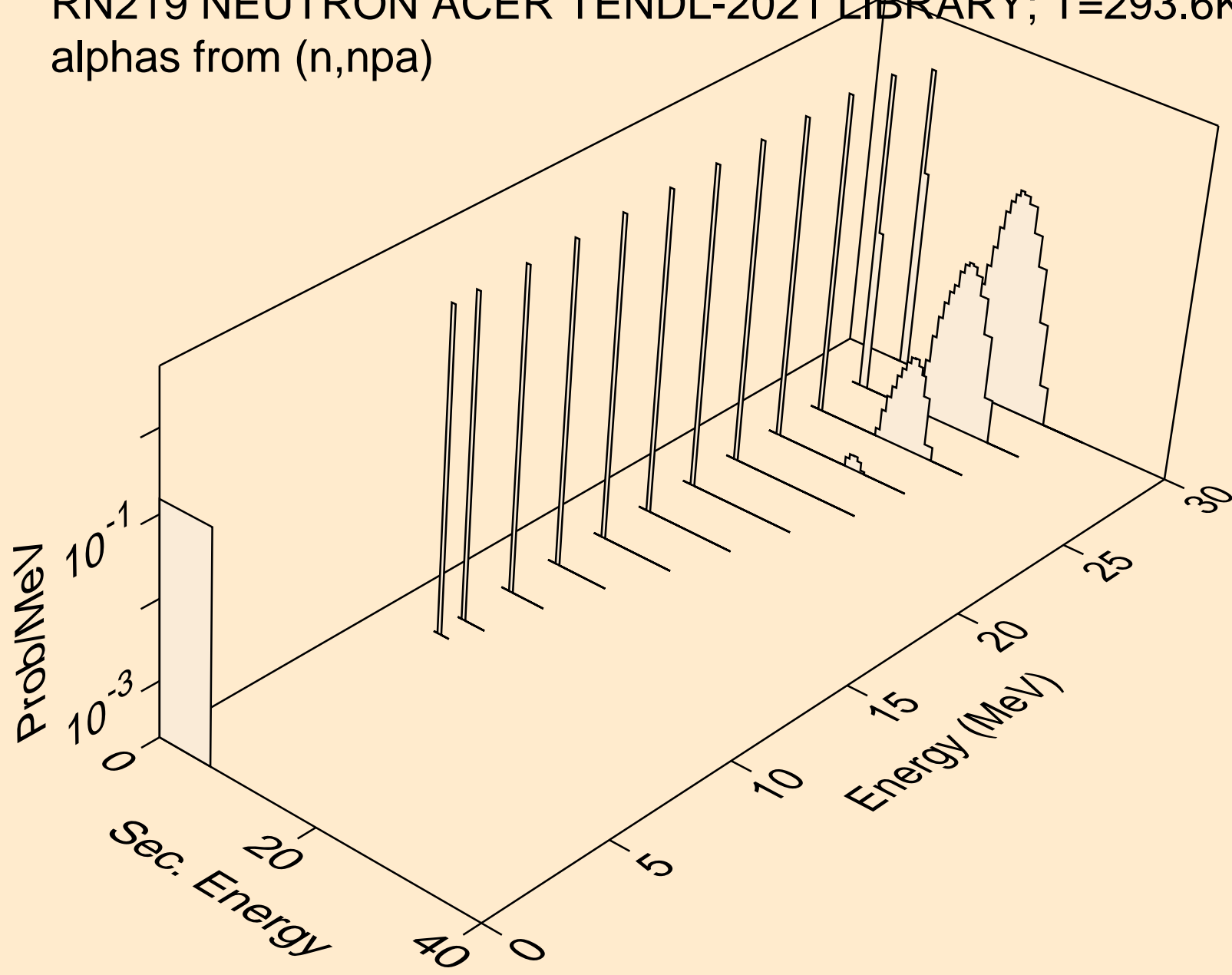
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a



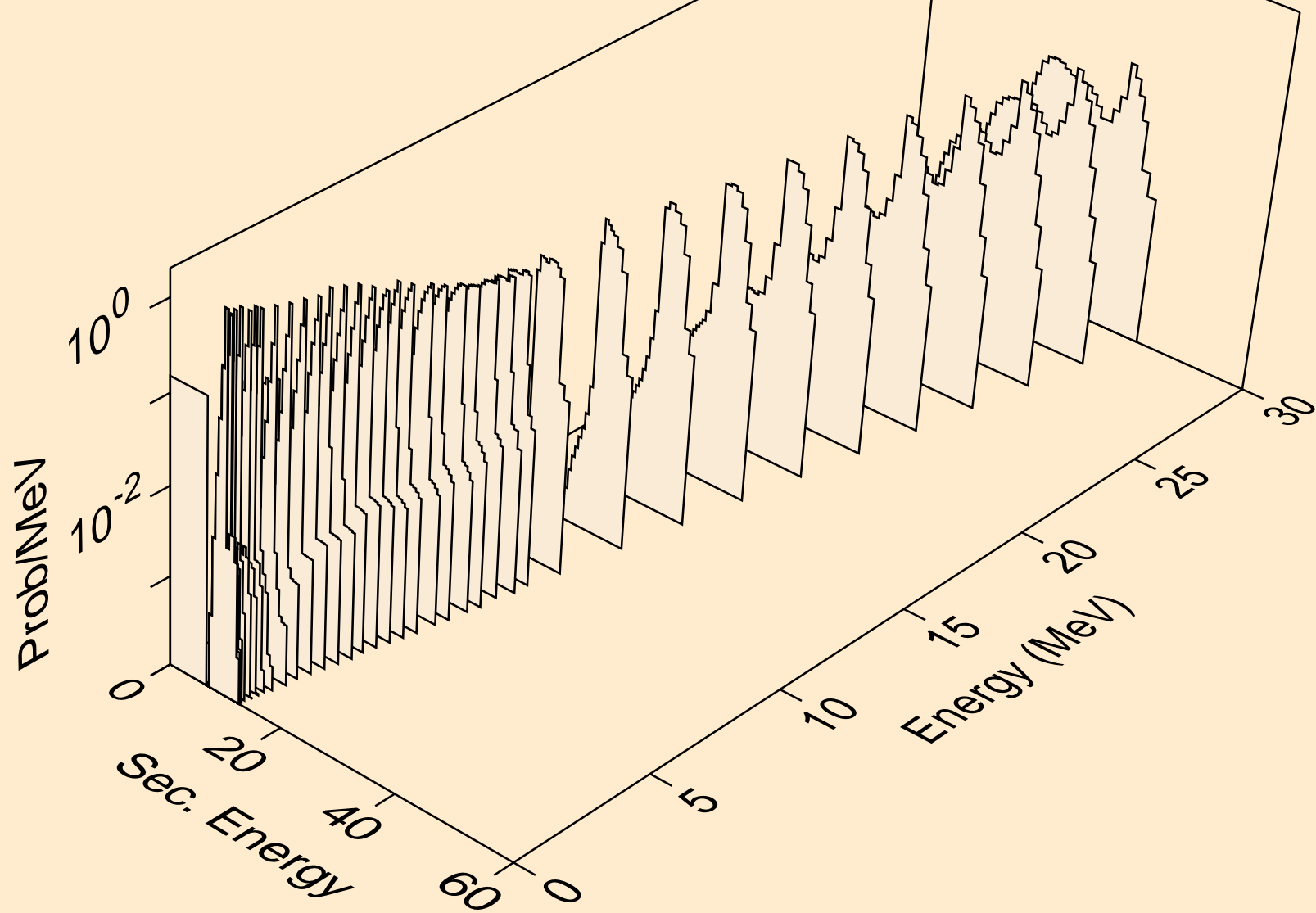
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)2a



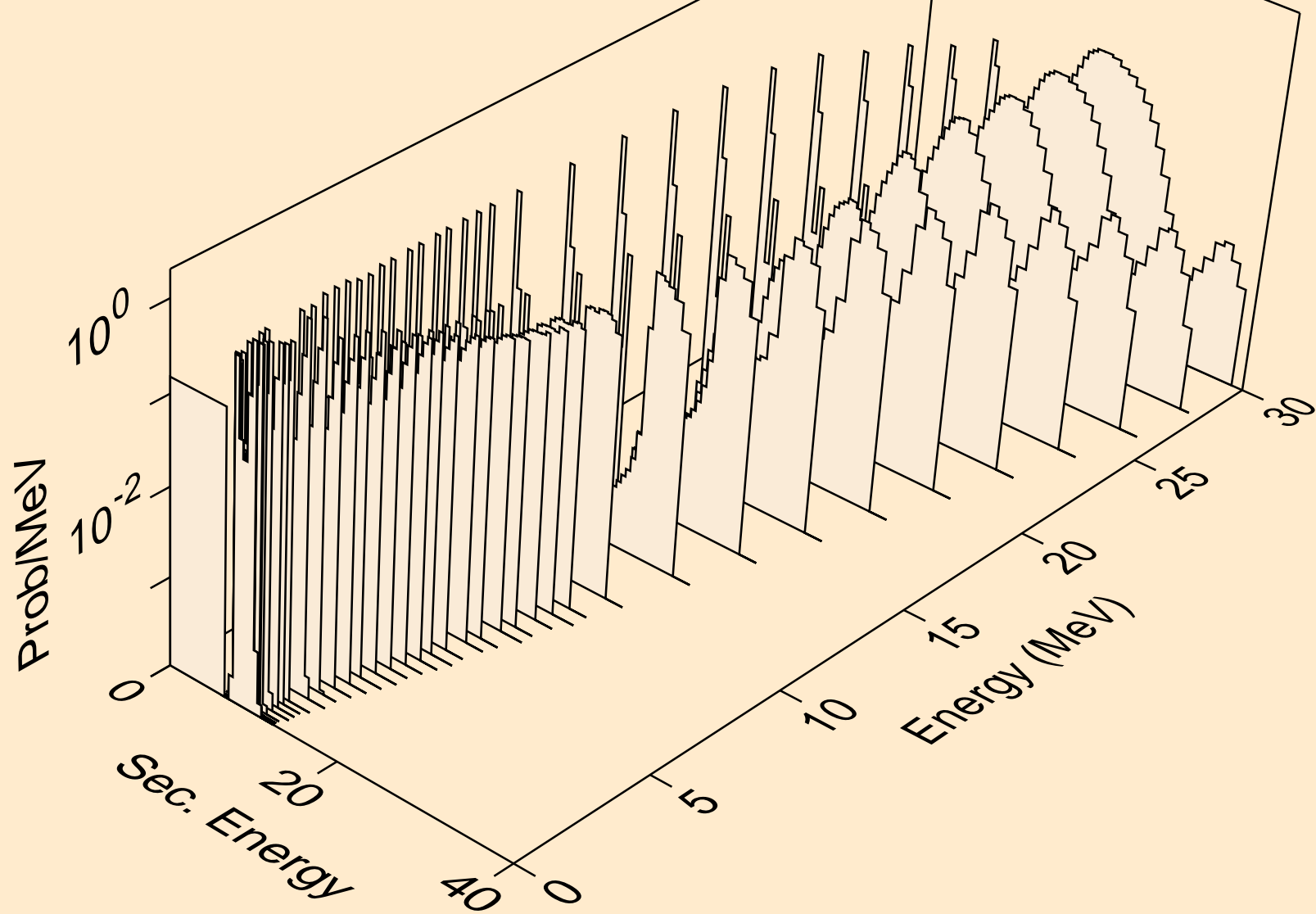
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)



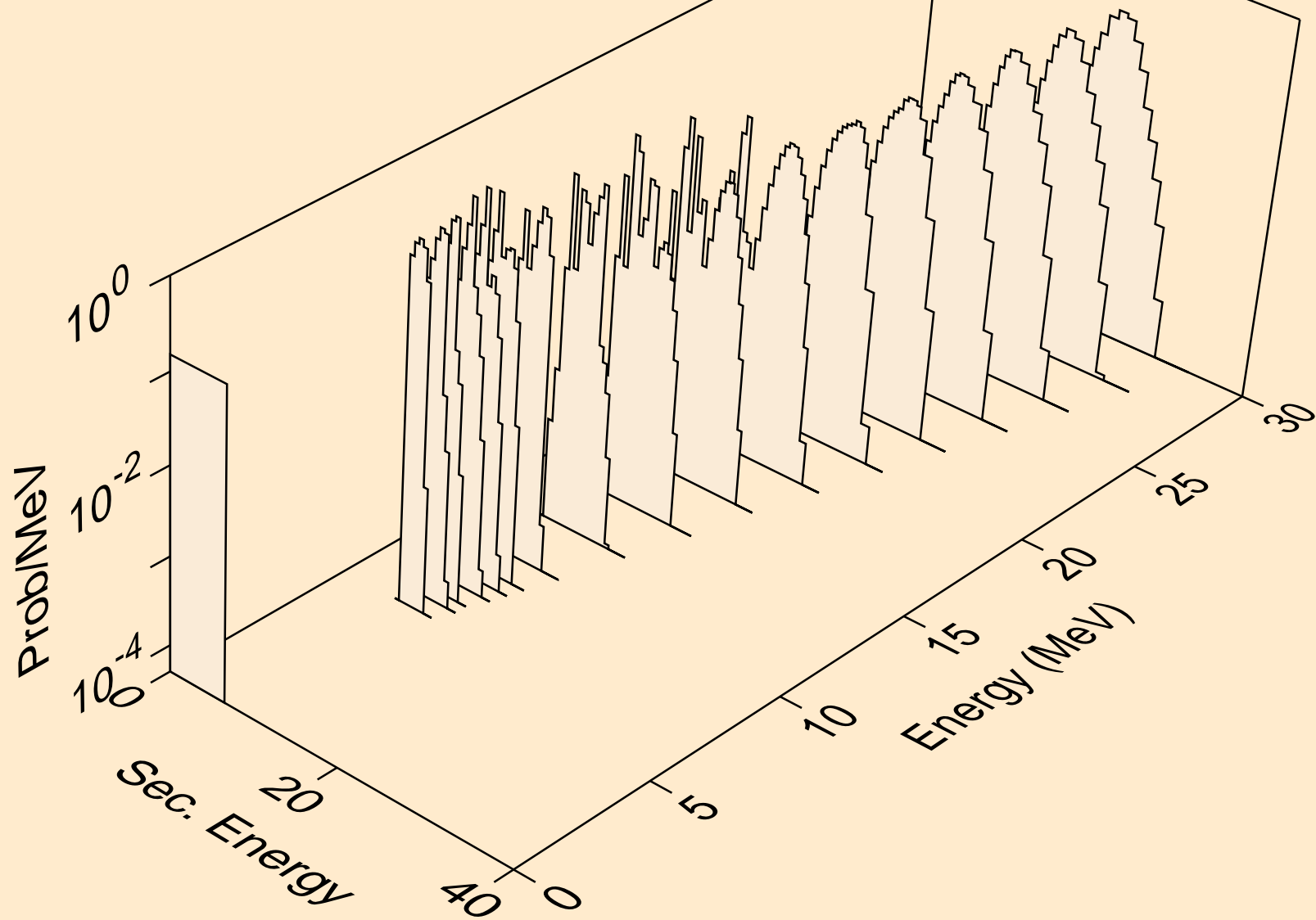
RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)





RN219 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

