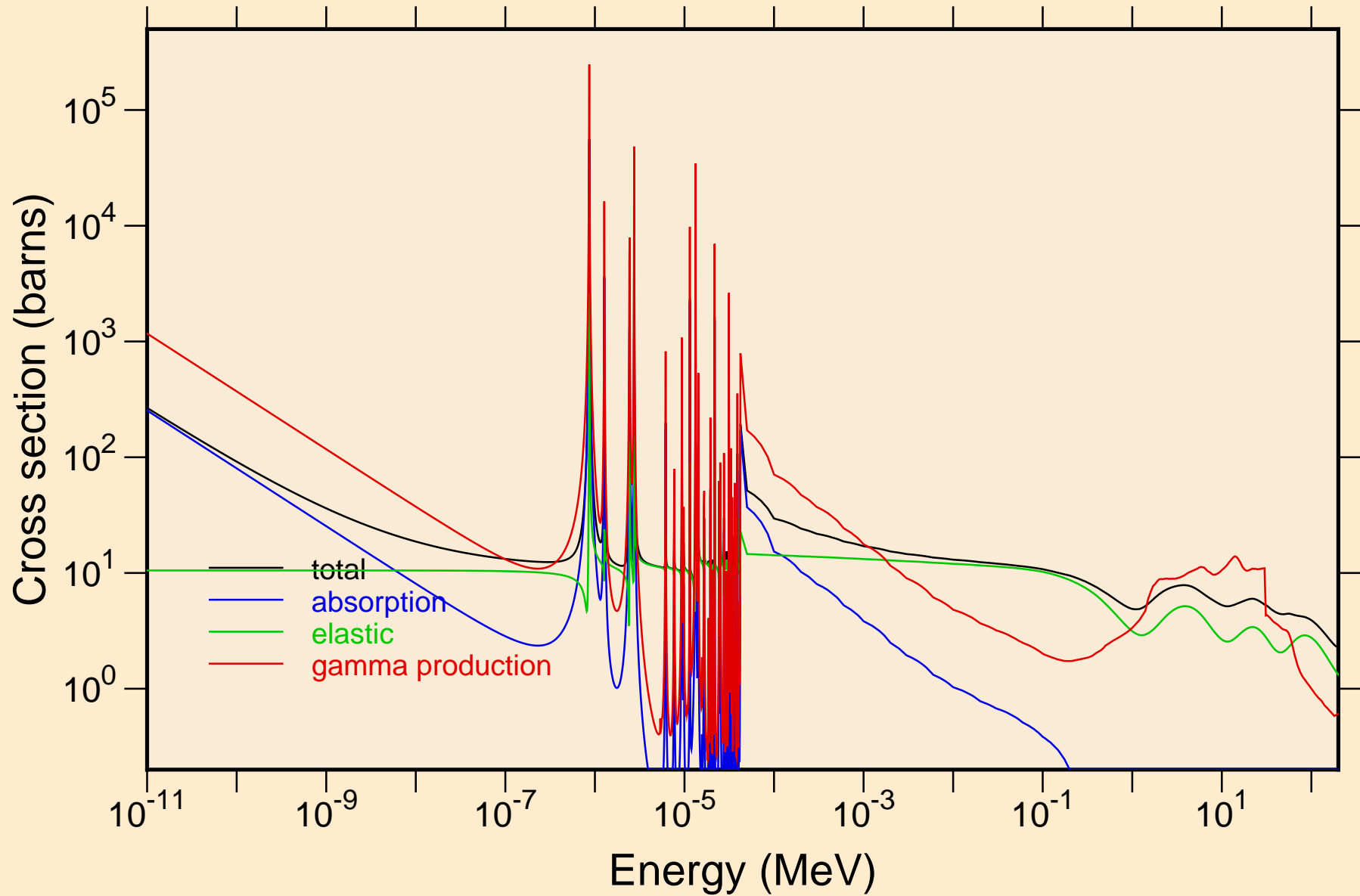
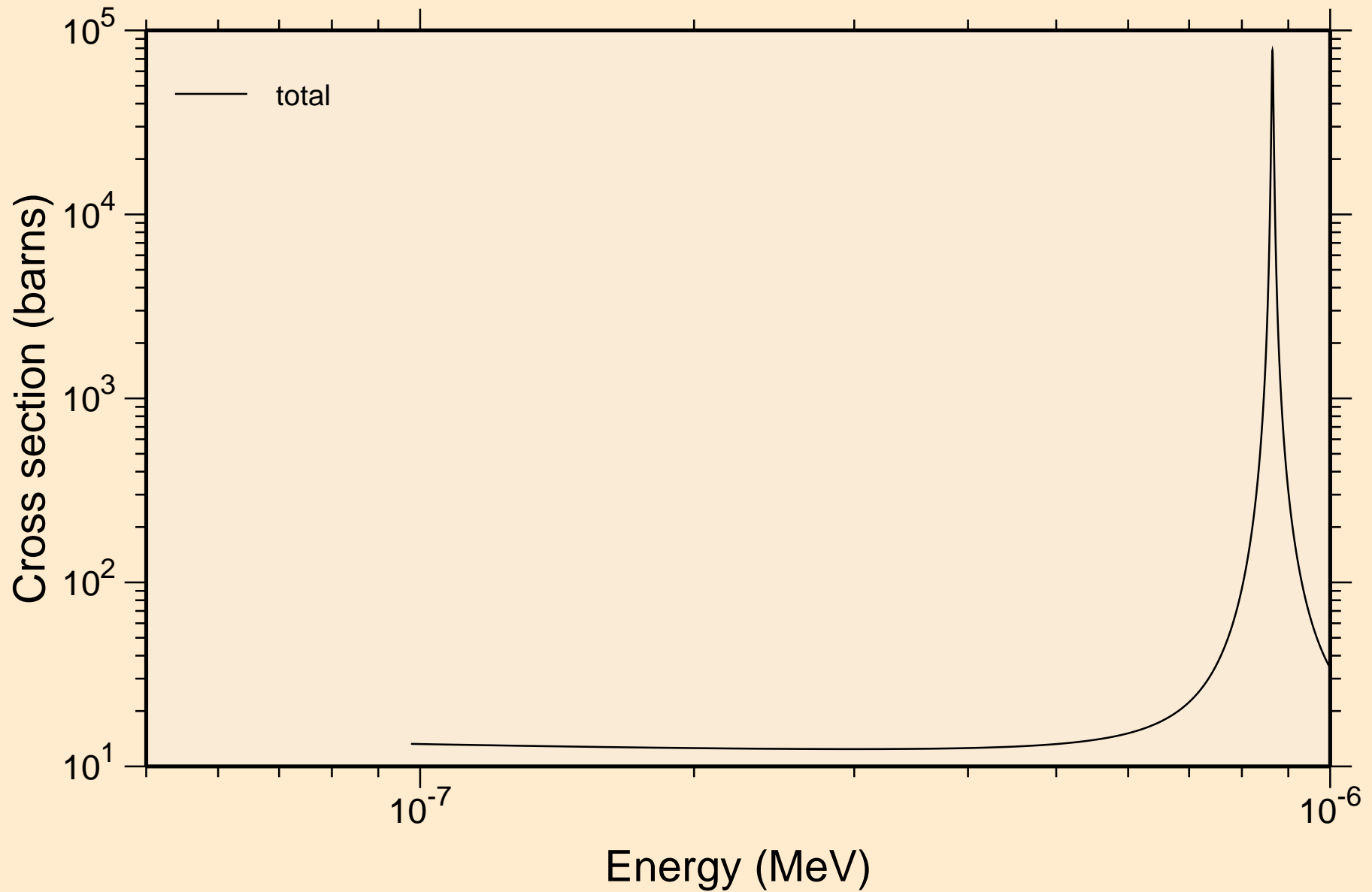


# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

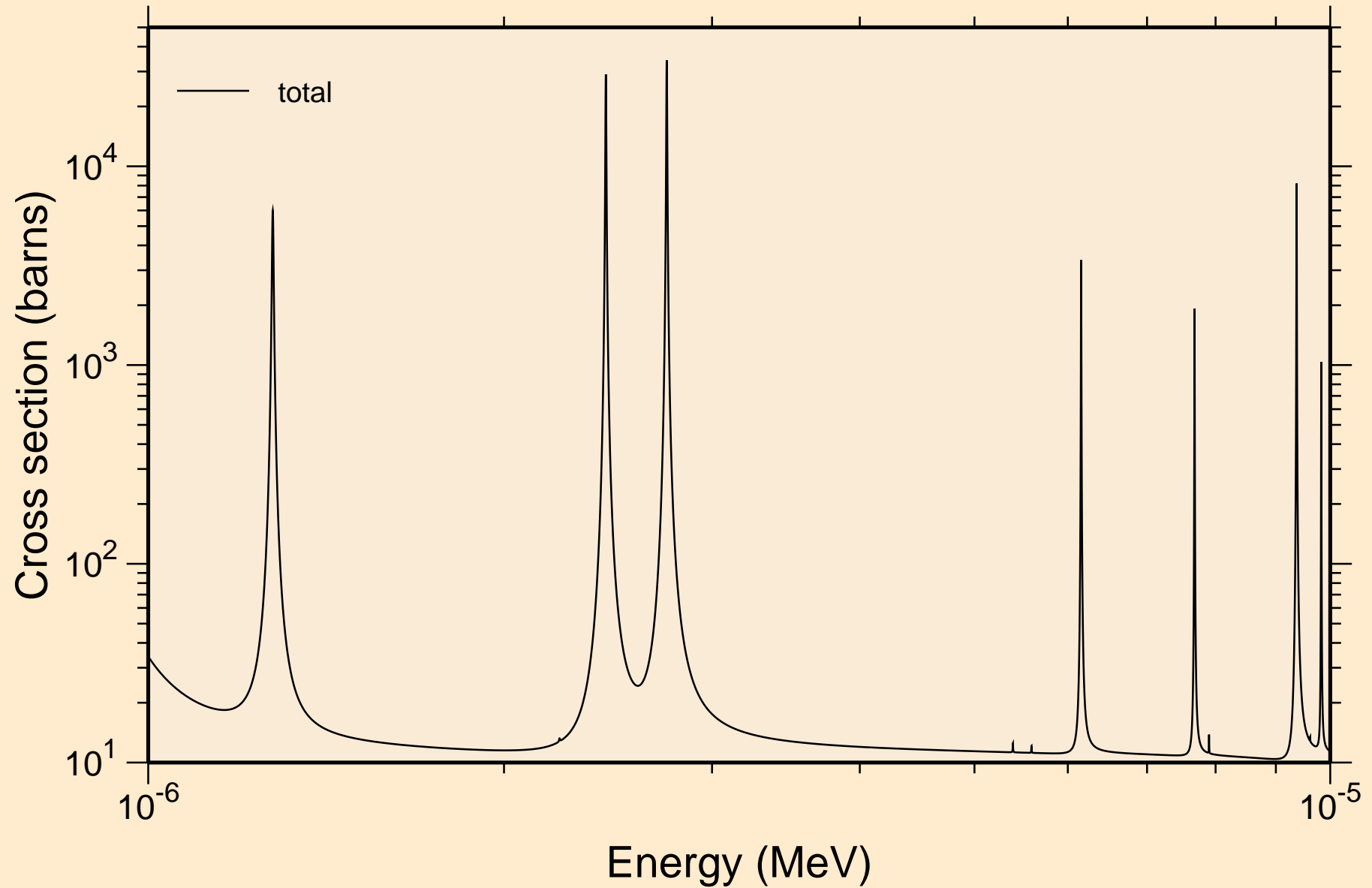
## Principal cross sections



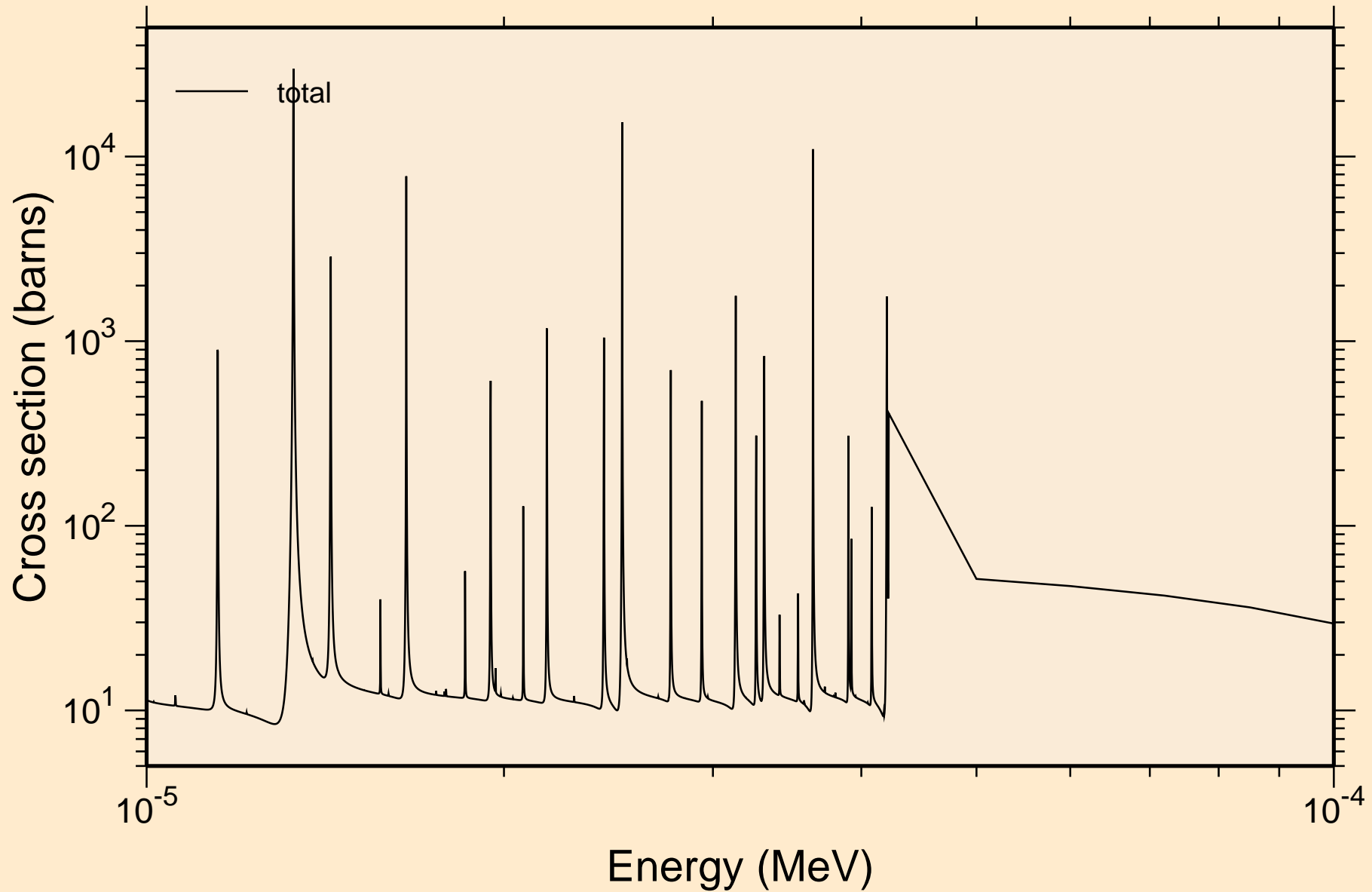
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



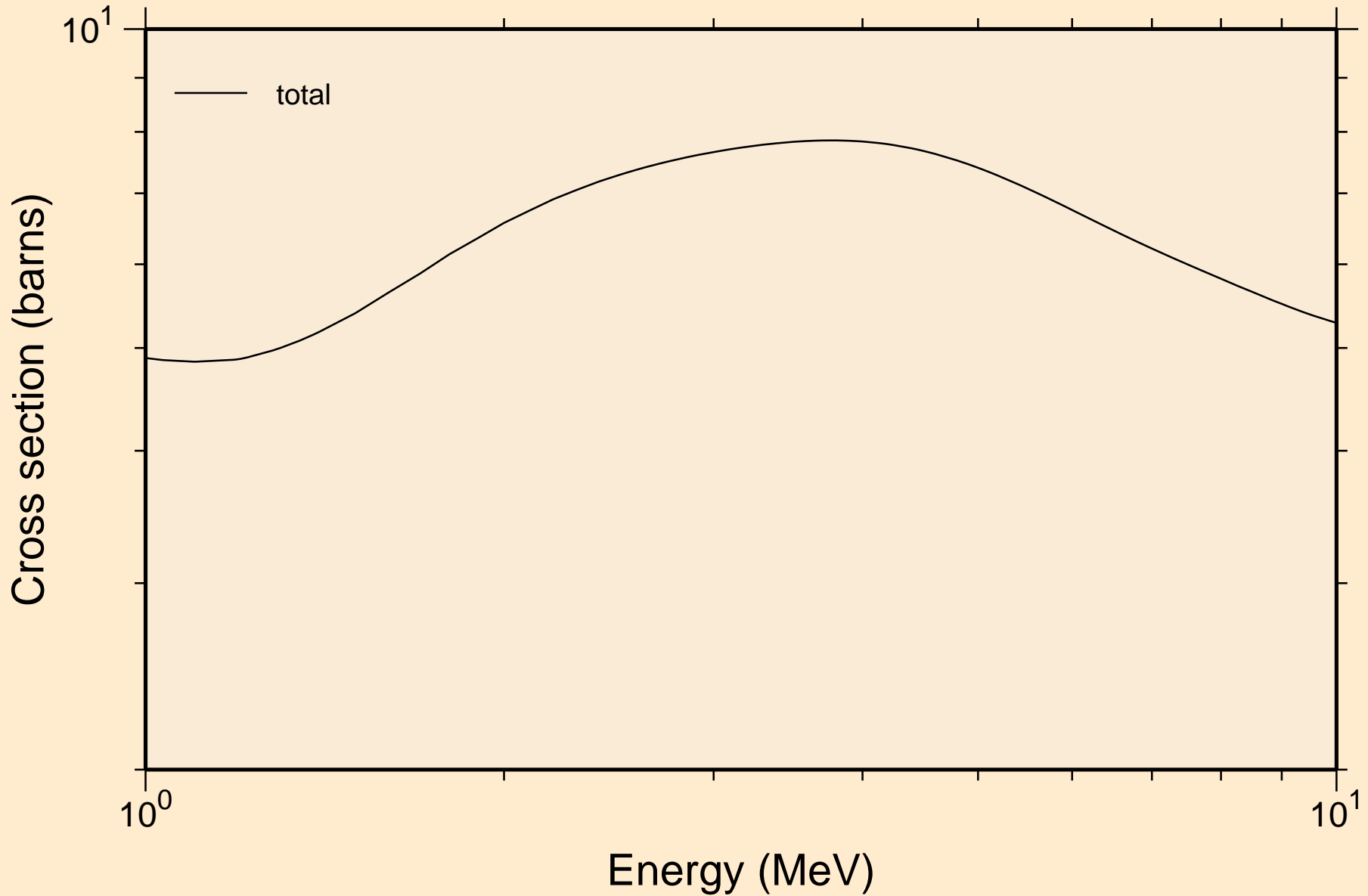
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



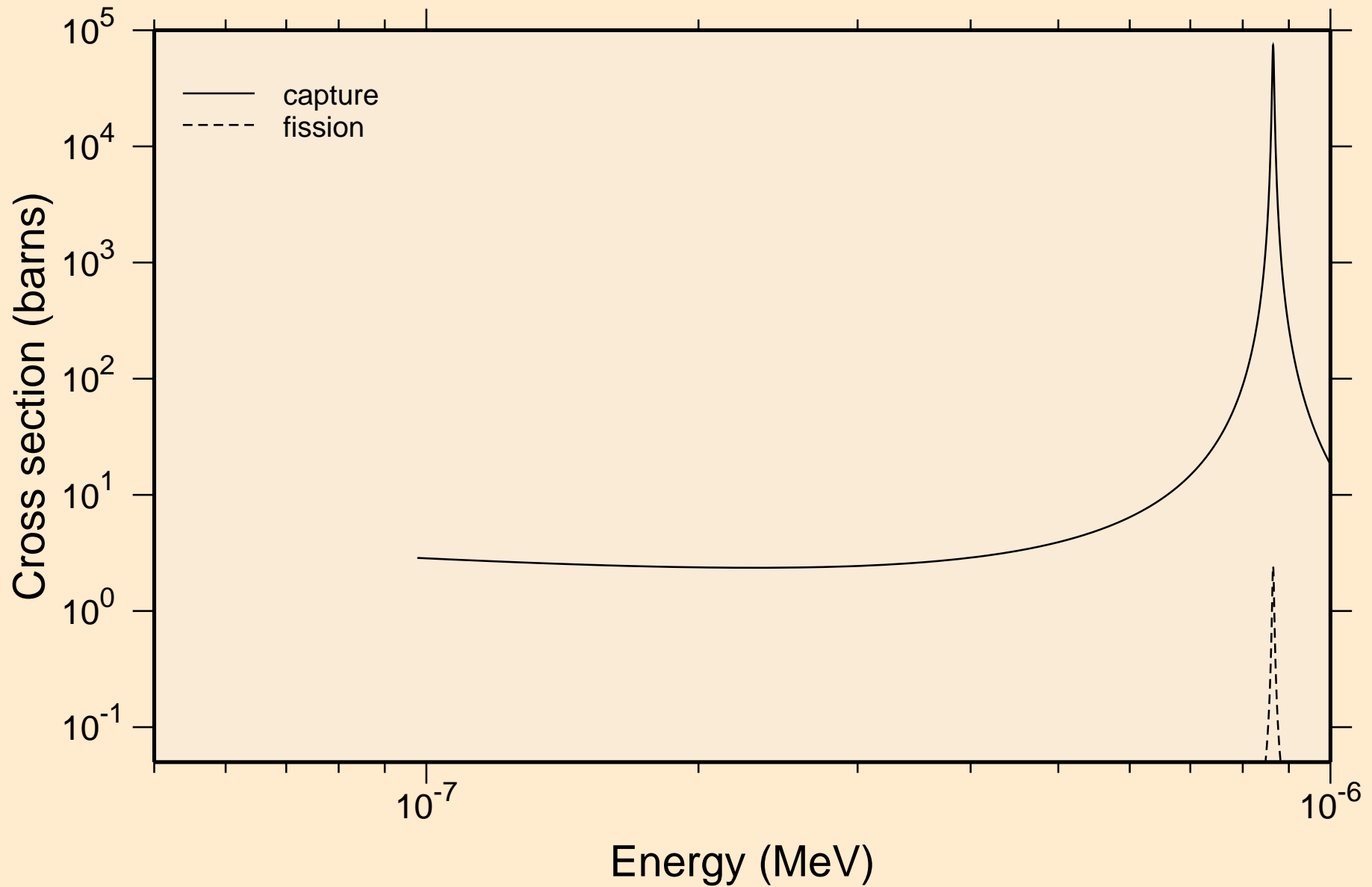
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



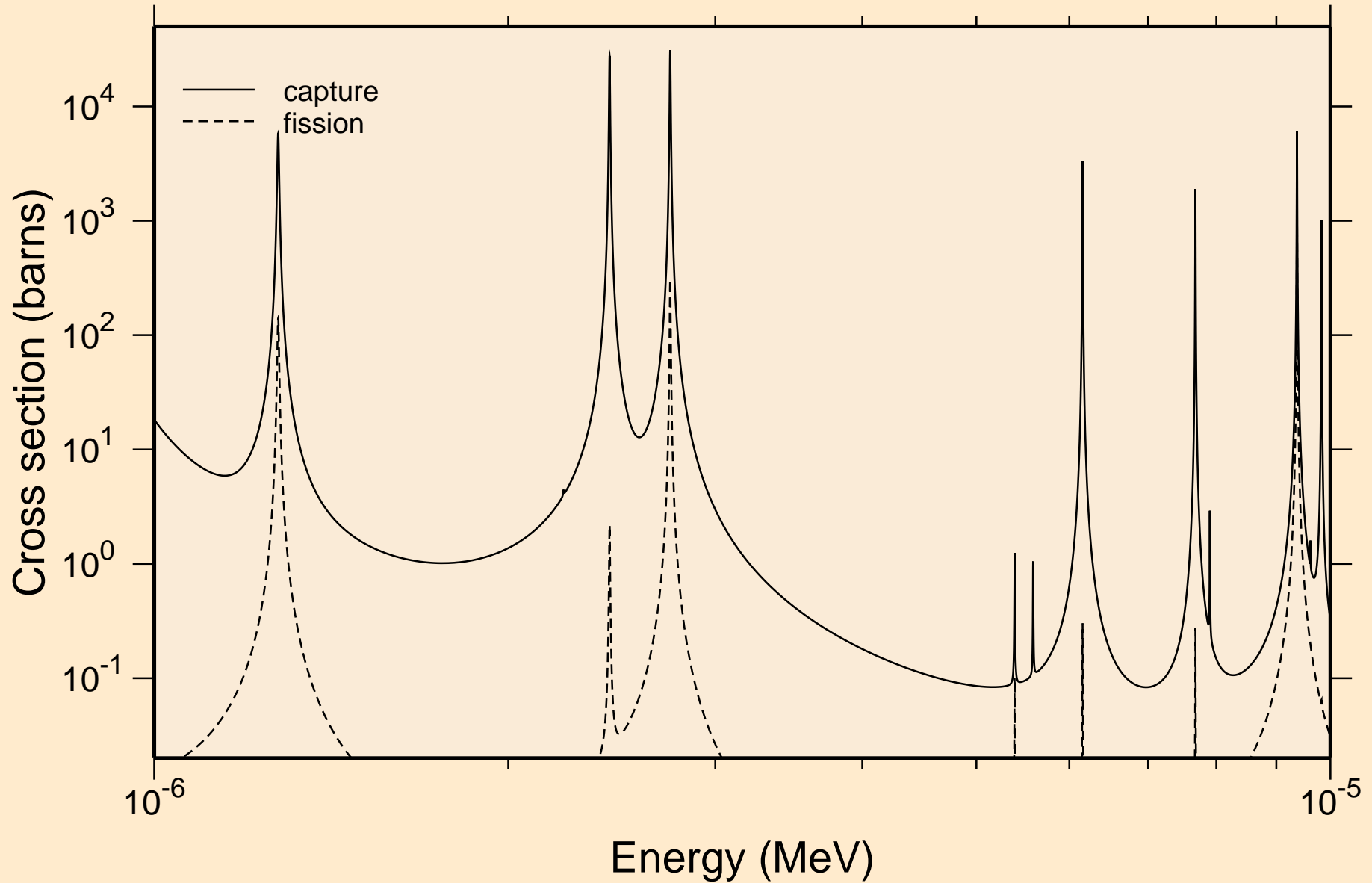
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



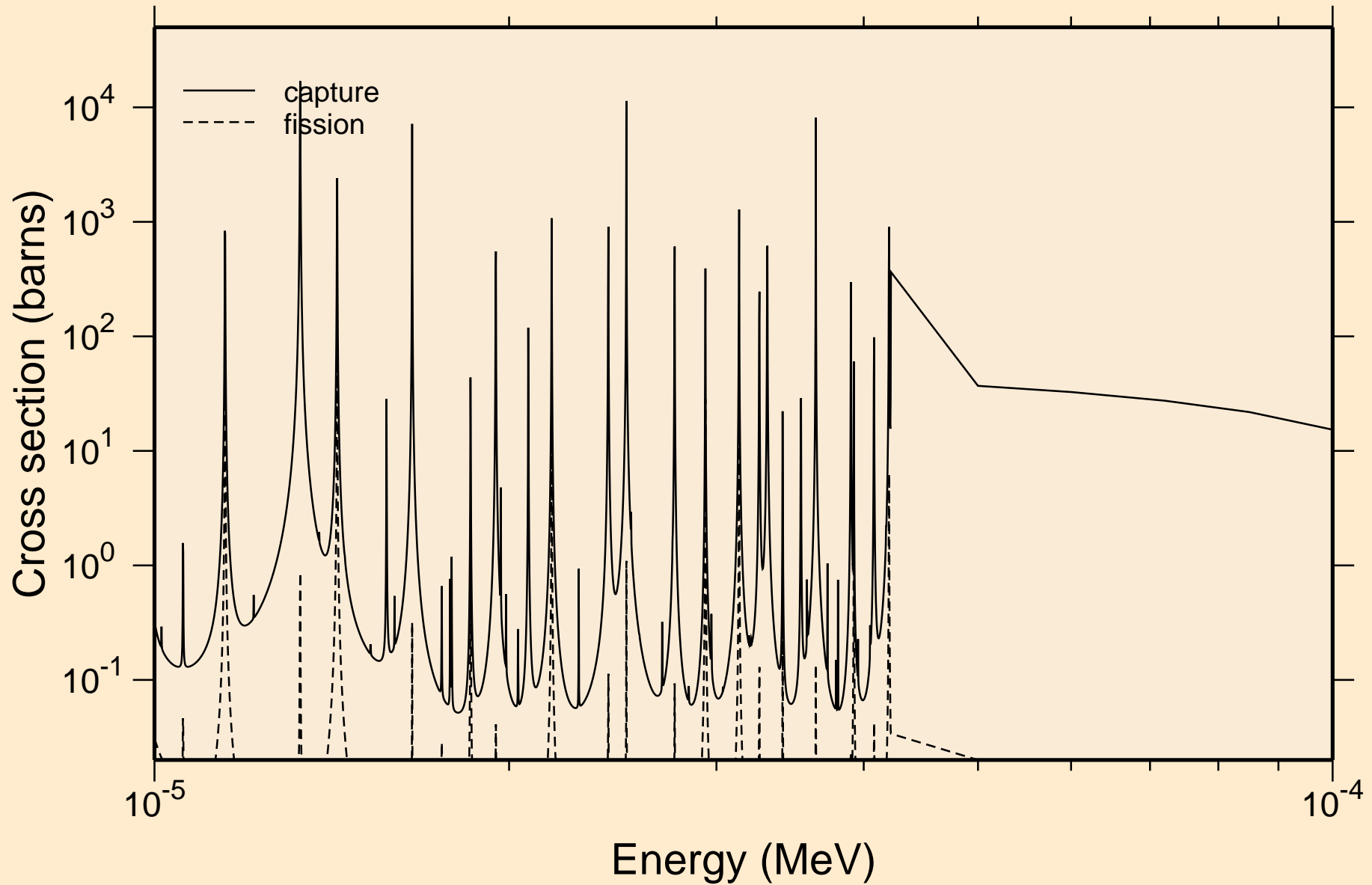
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

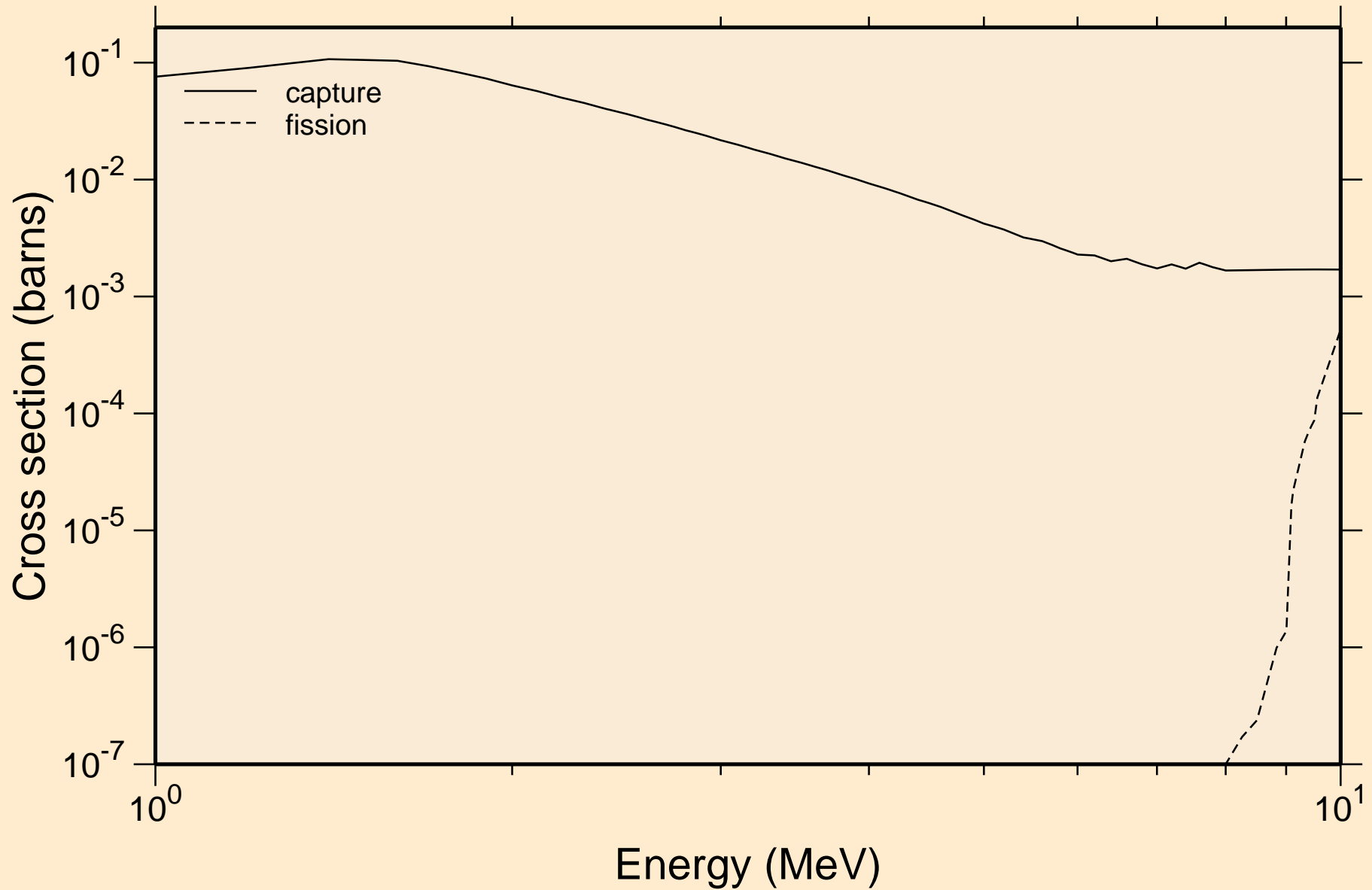


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



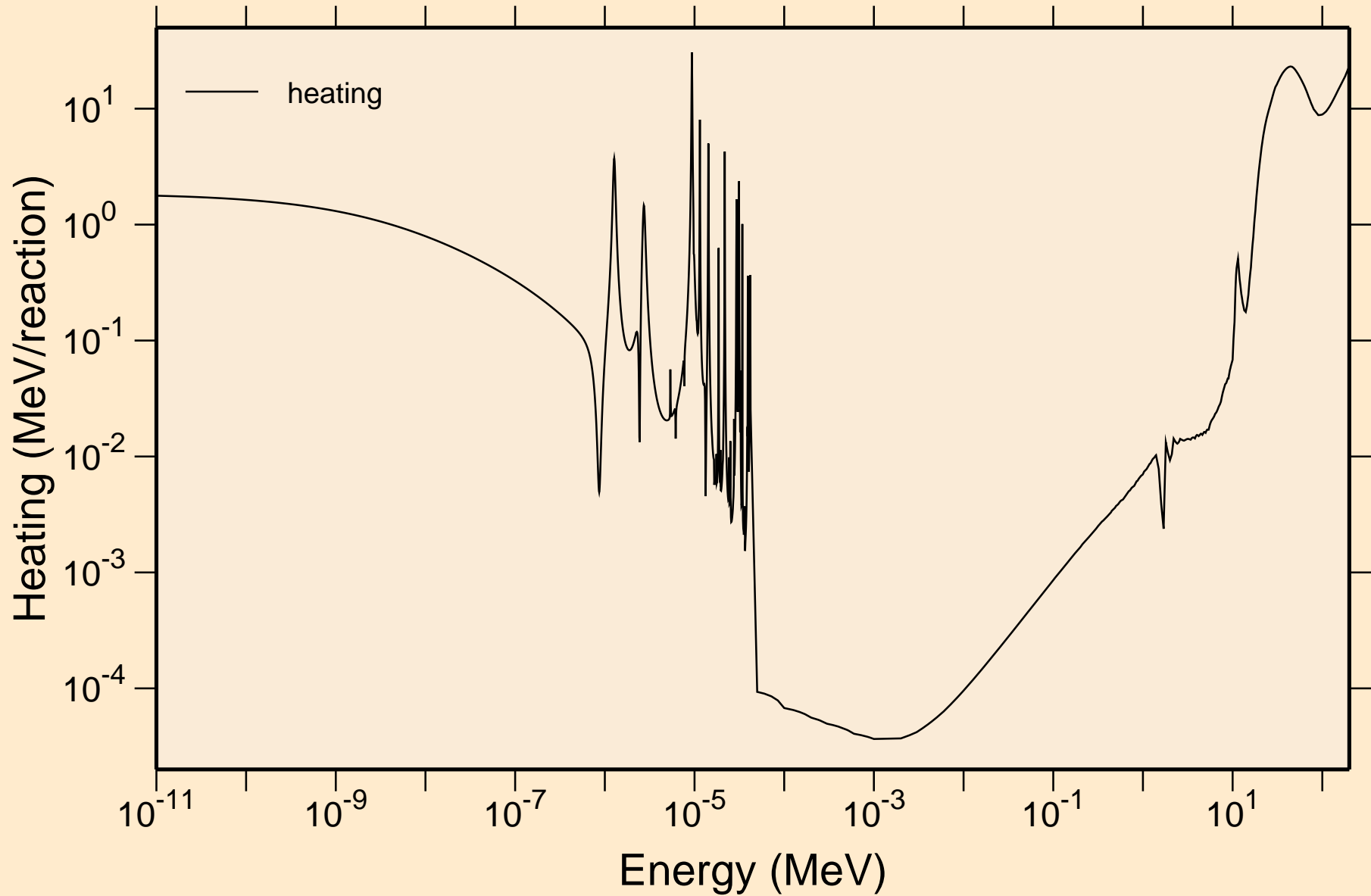


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

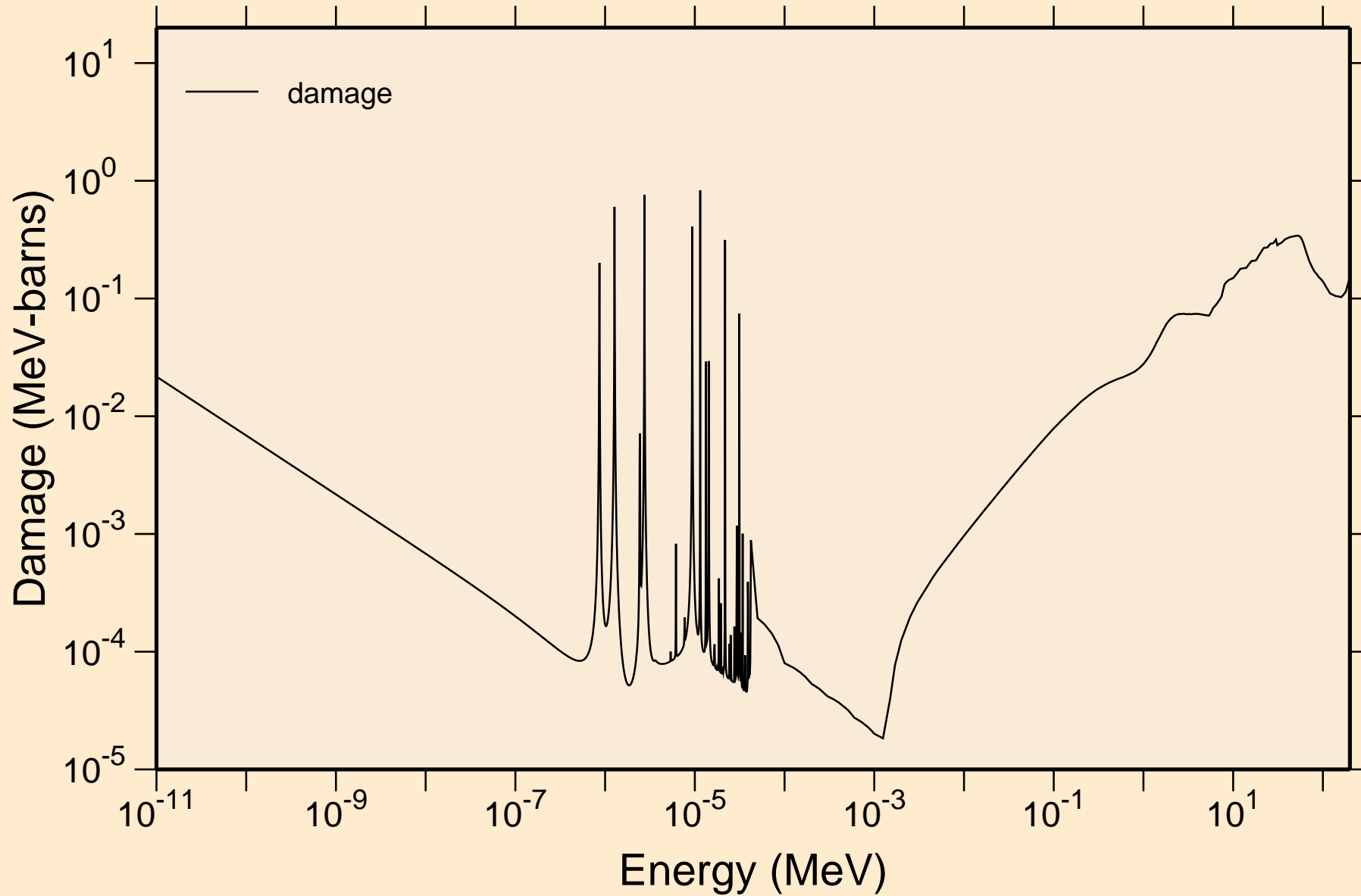


# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

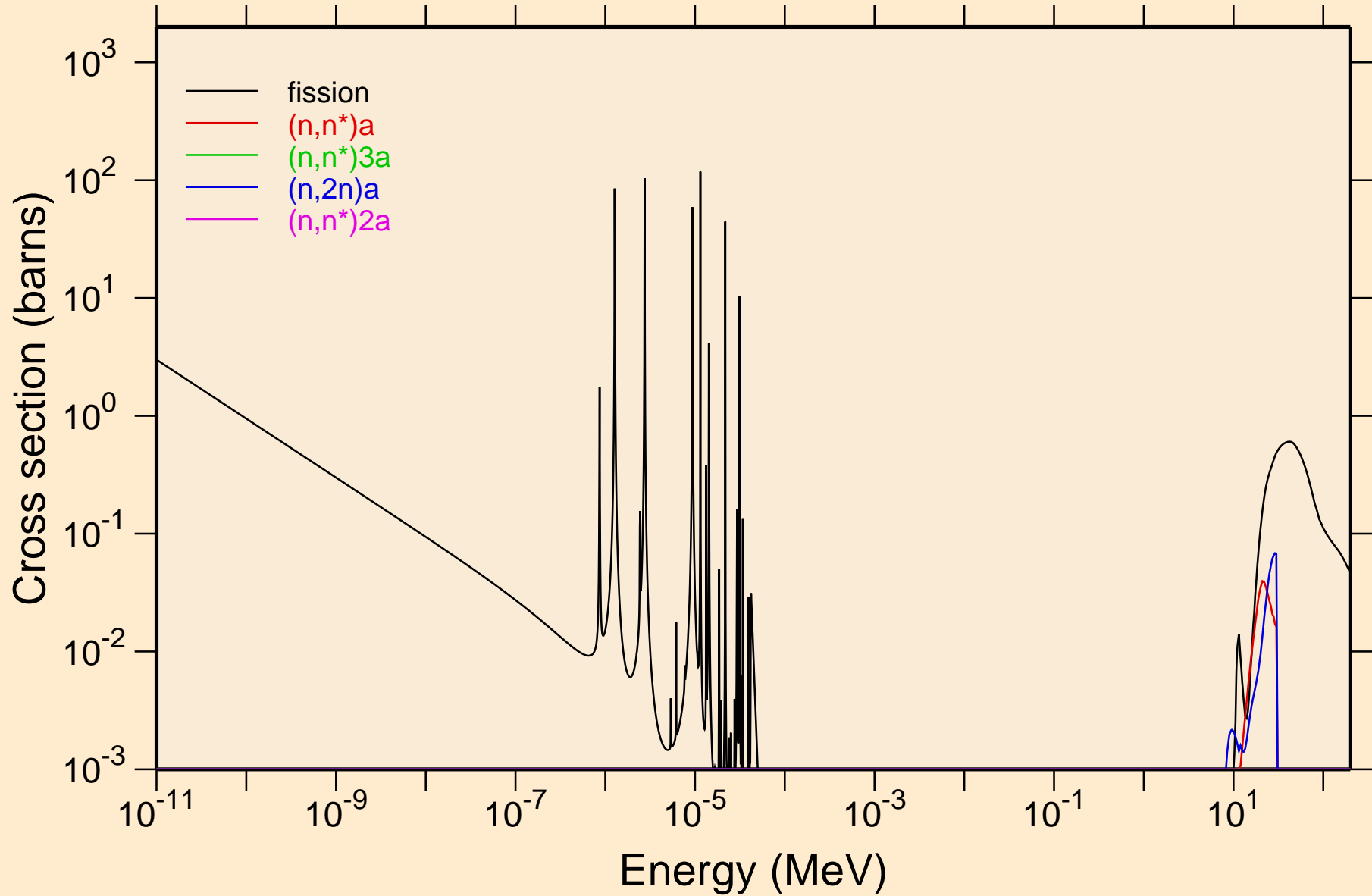
## Heating



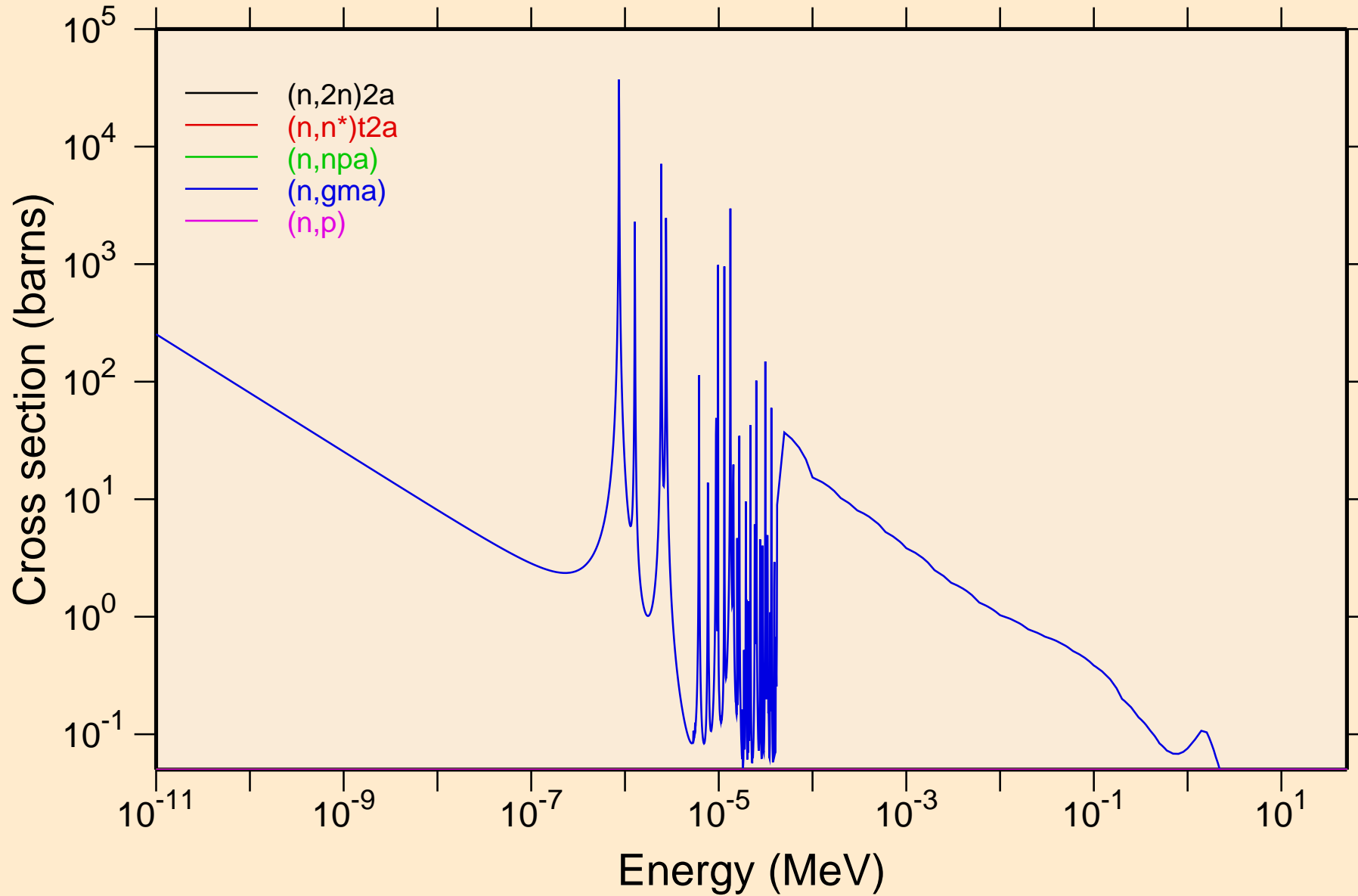
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage



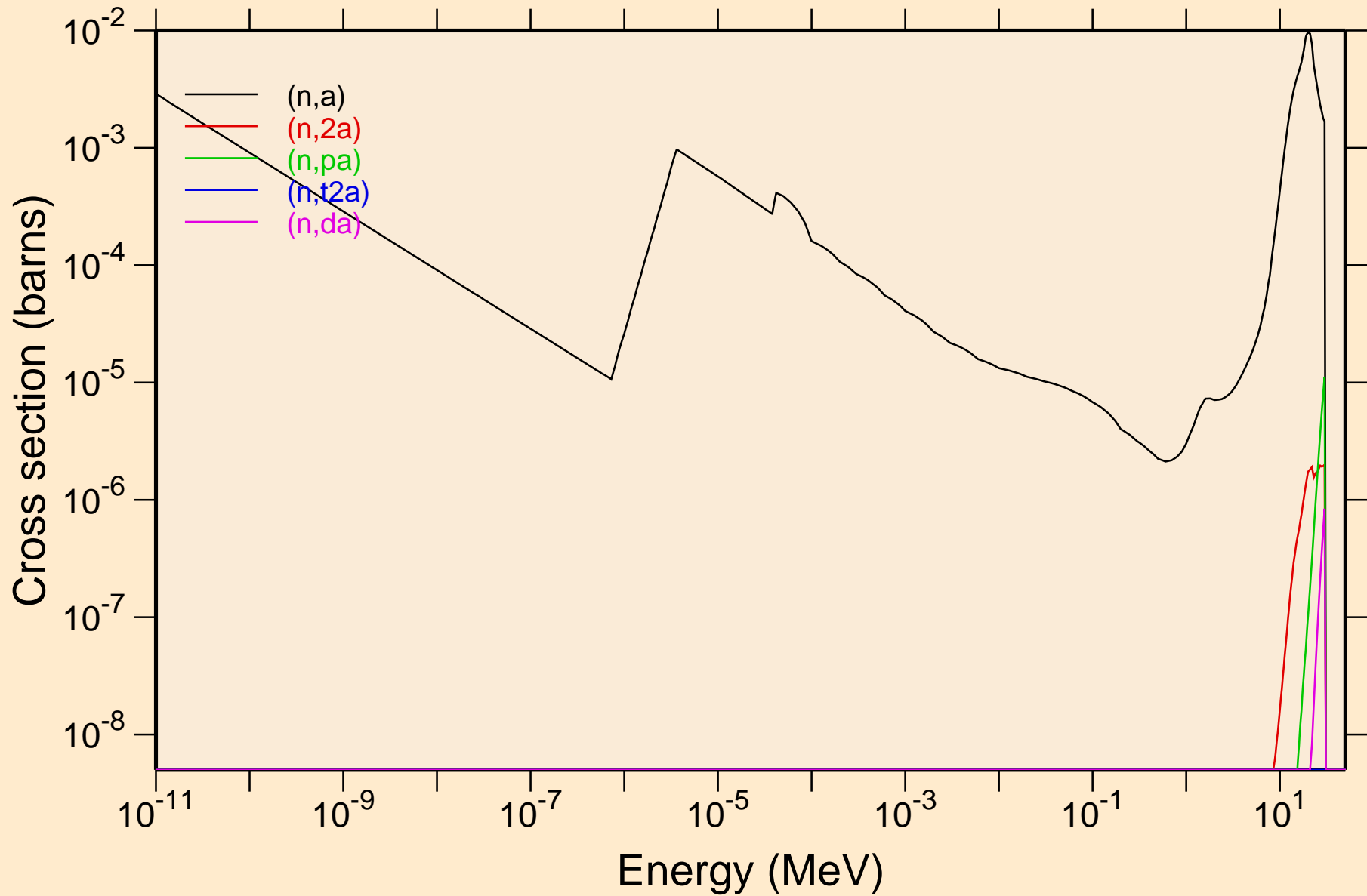
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



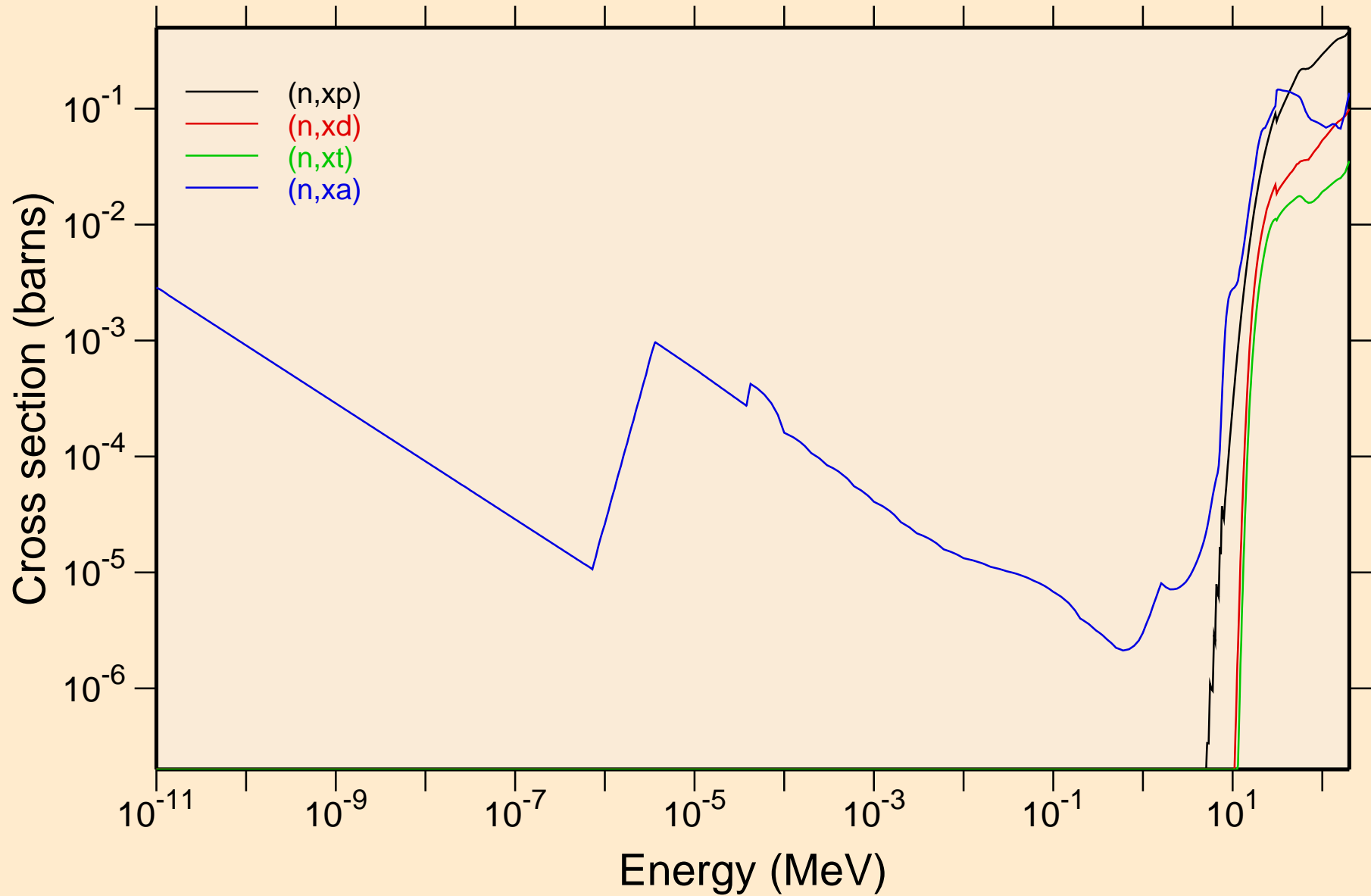
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

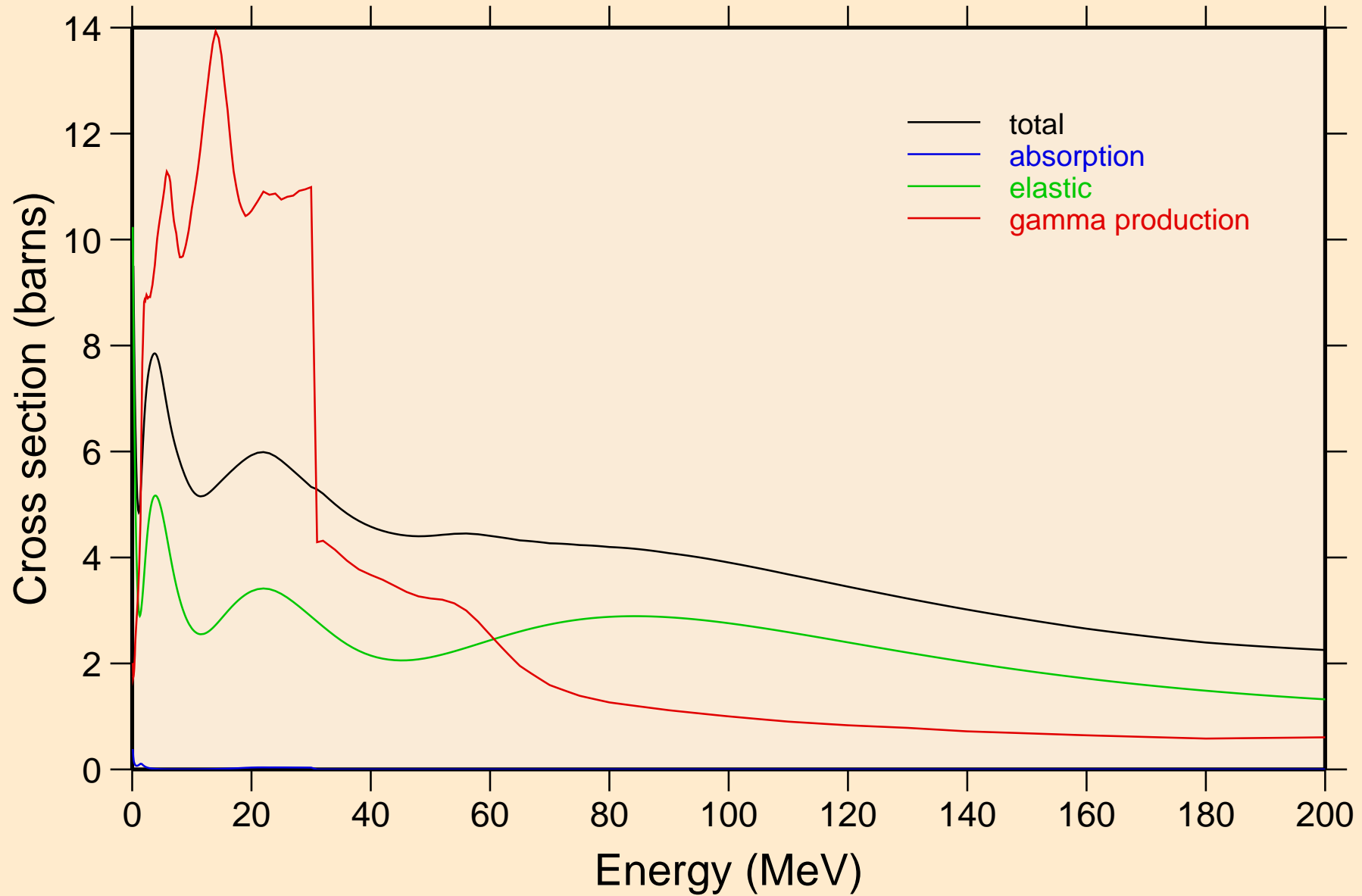


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

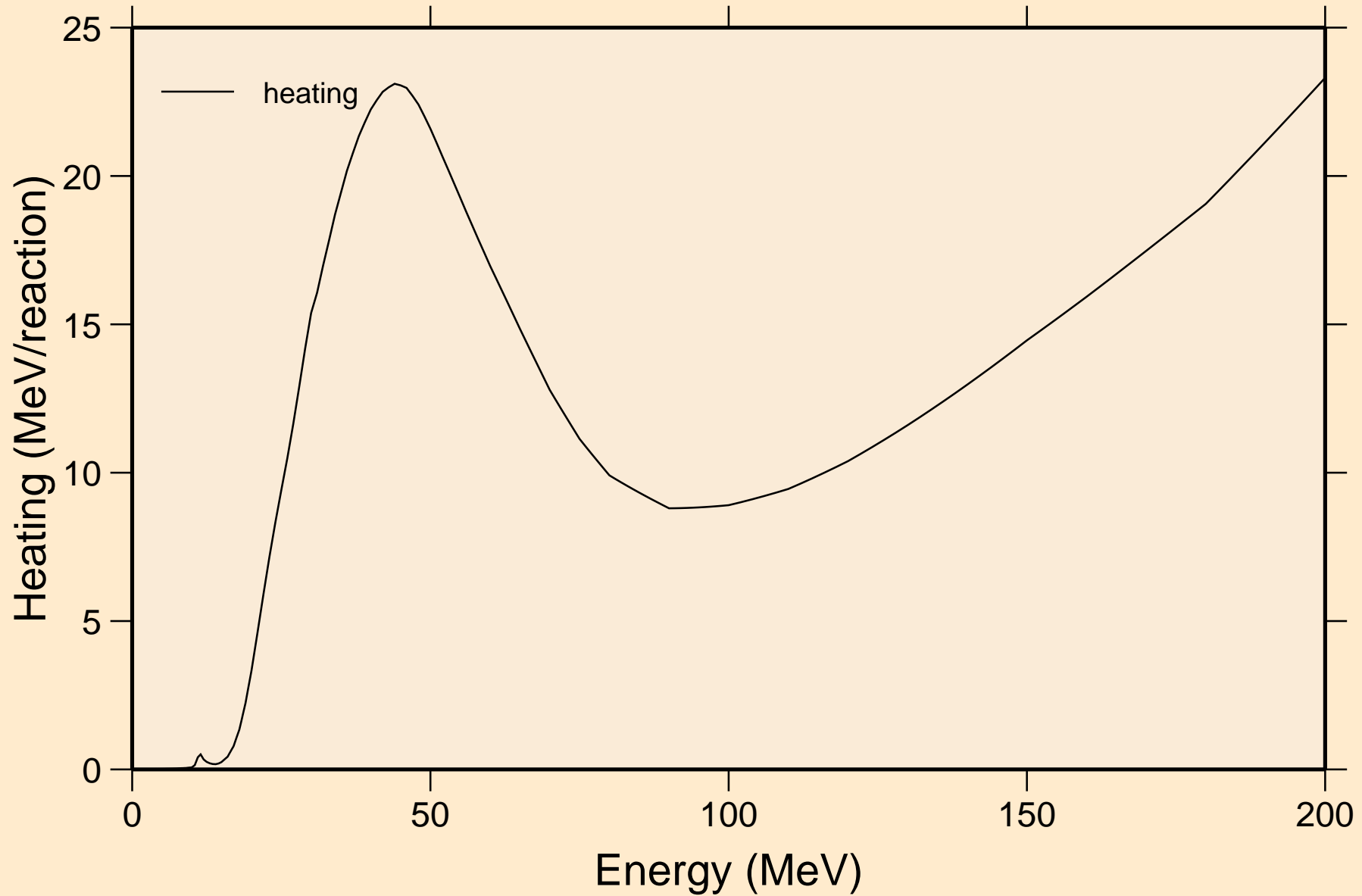
## Principal cross sections





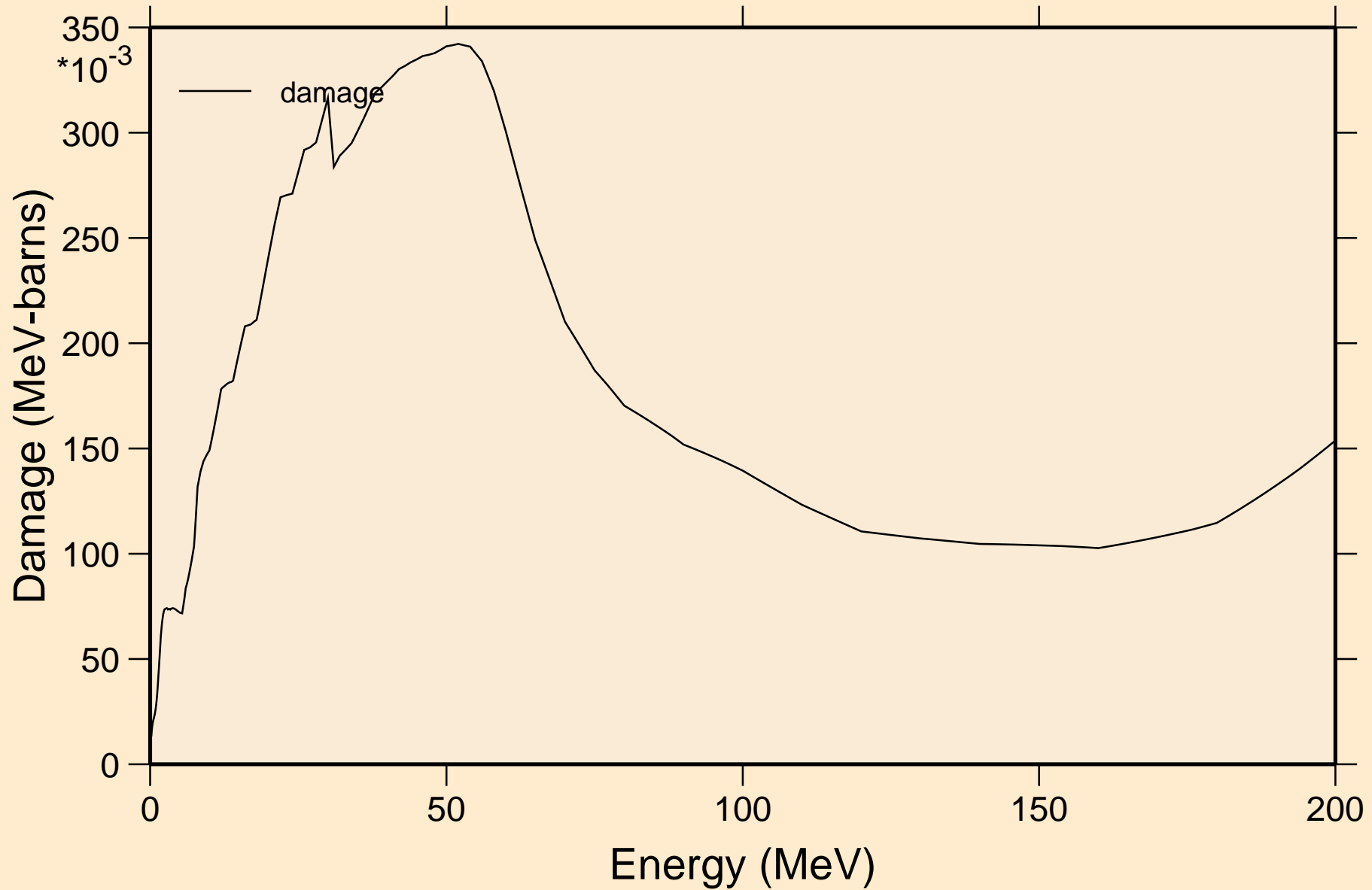
# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

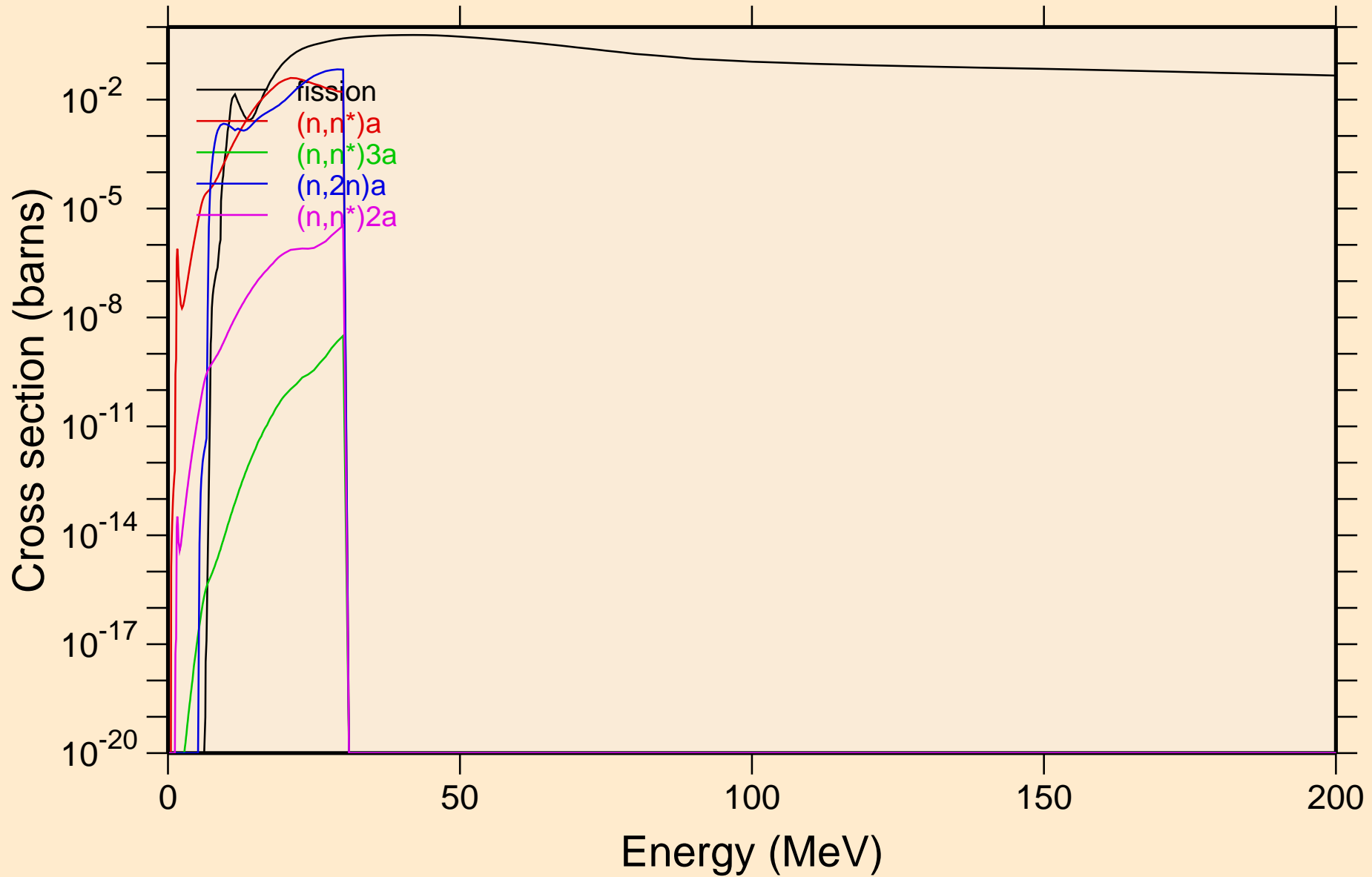


# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

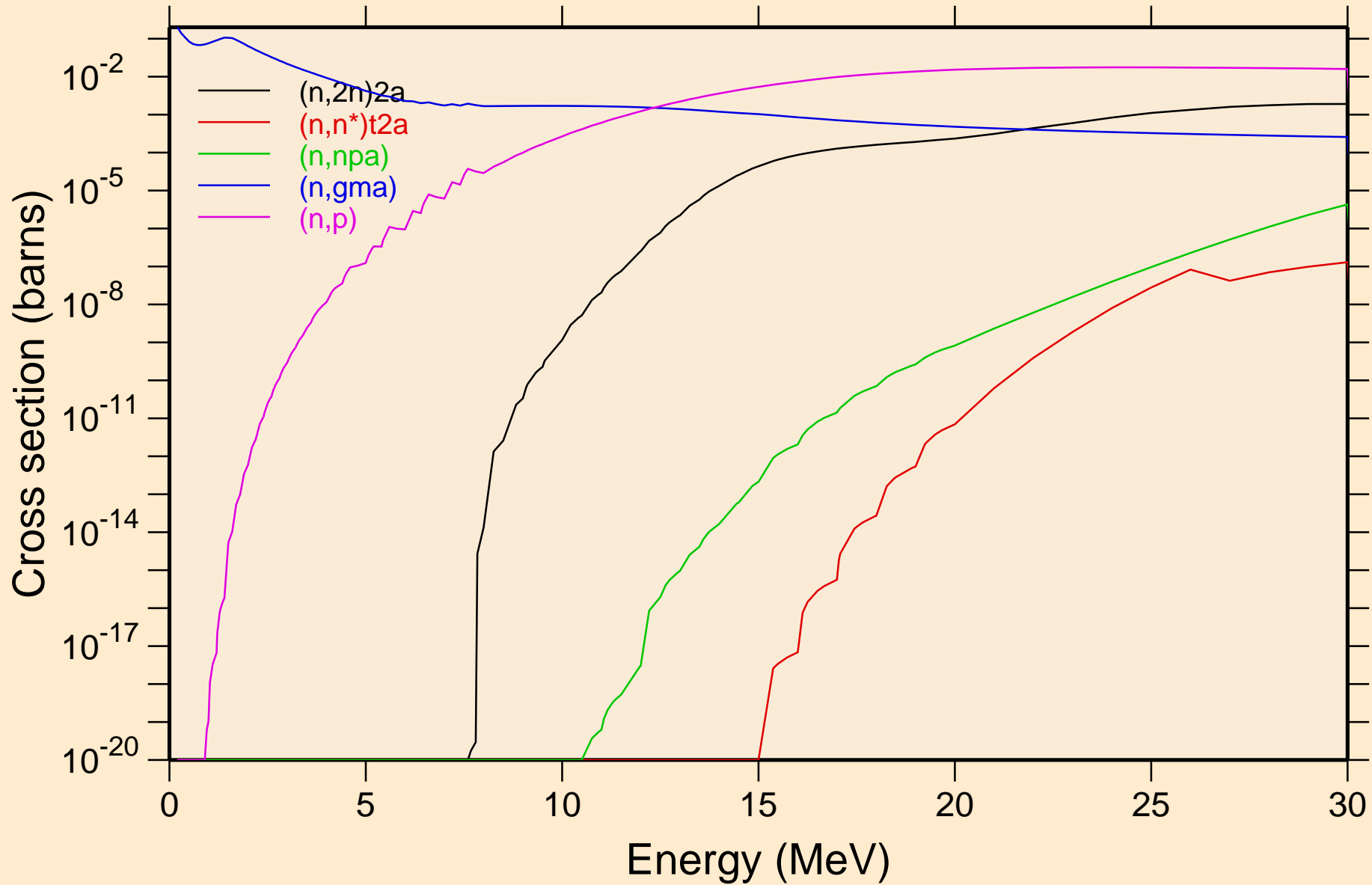
## Damage



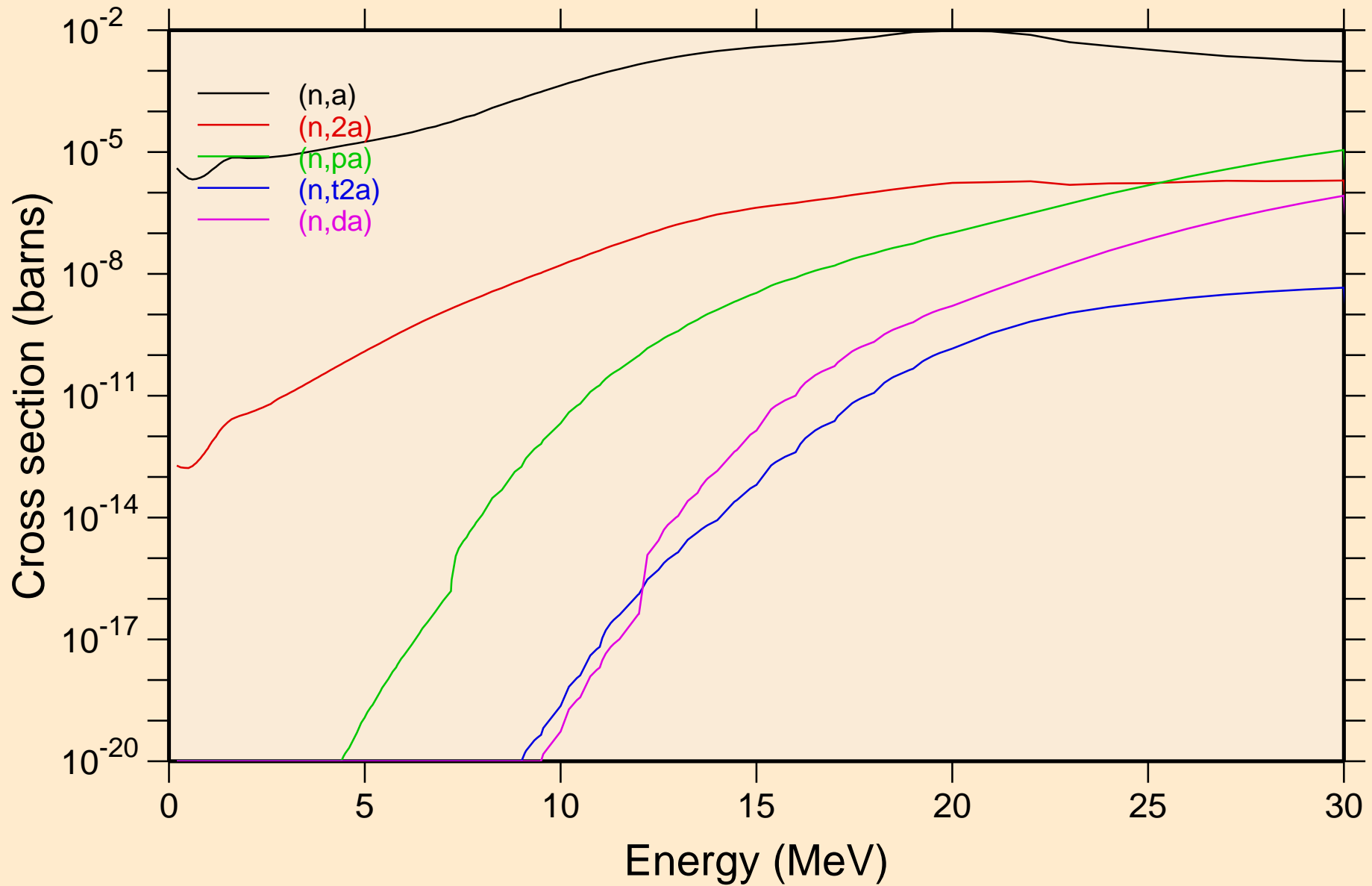
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



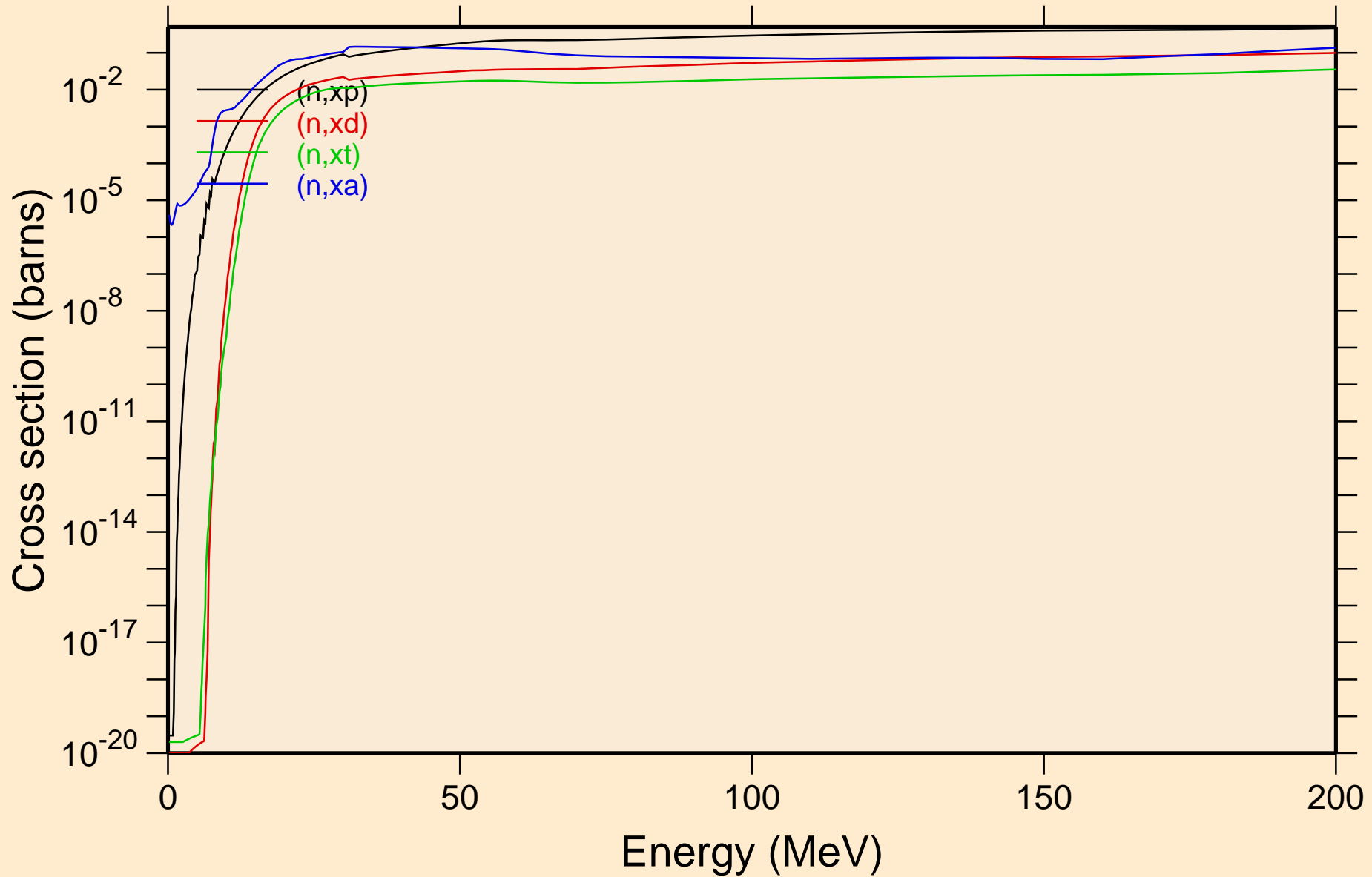
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



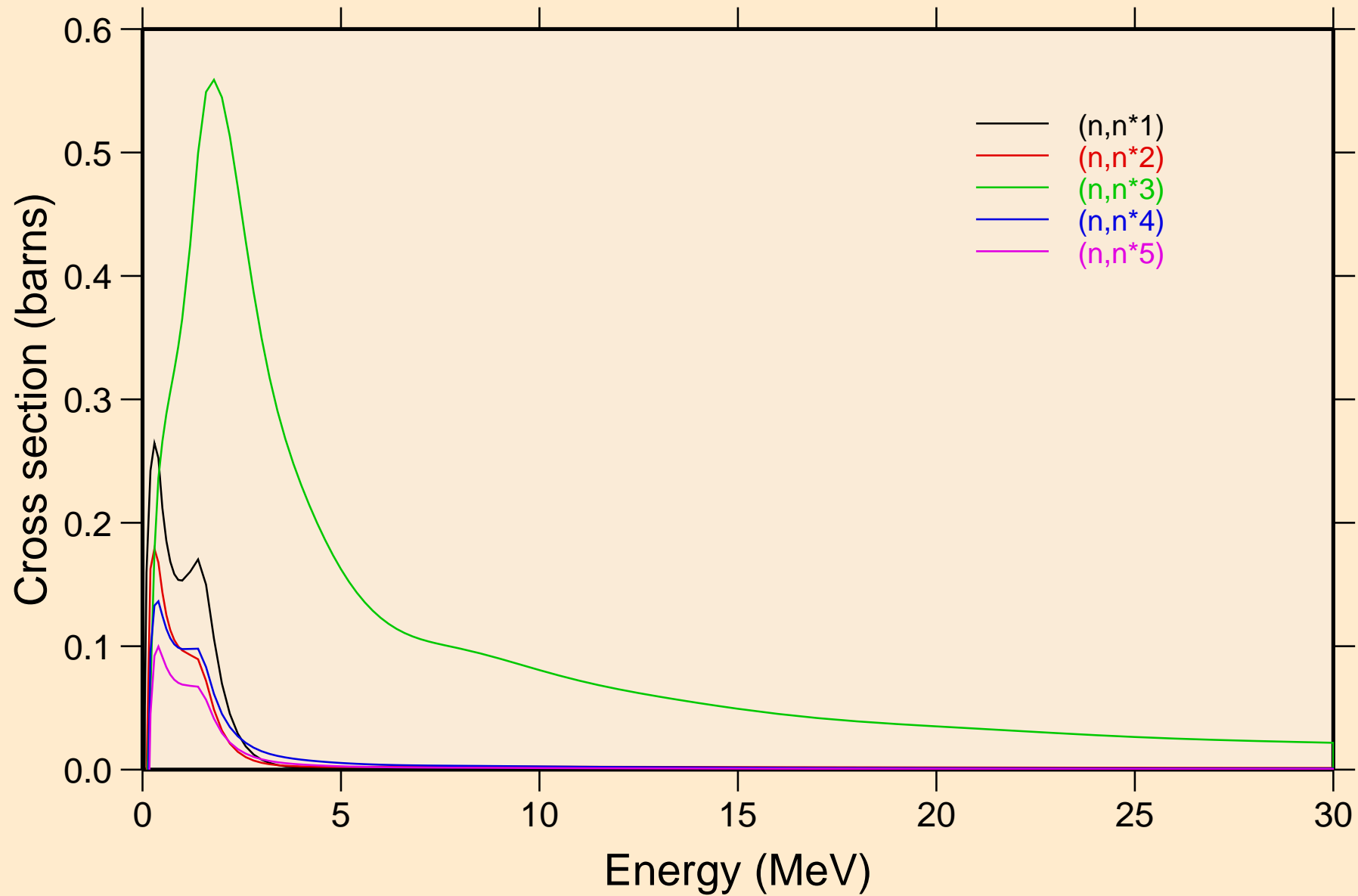
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



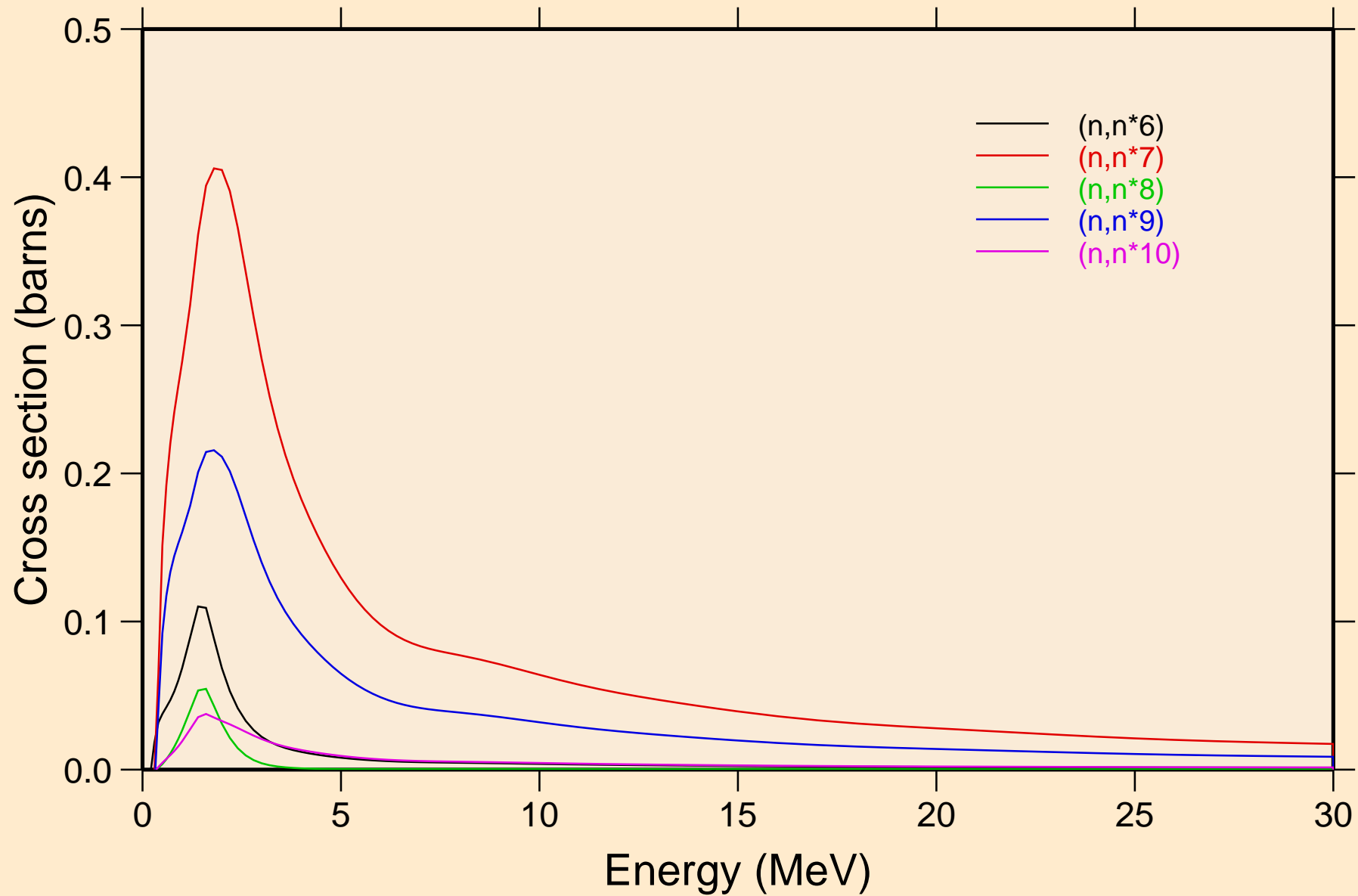
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

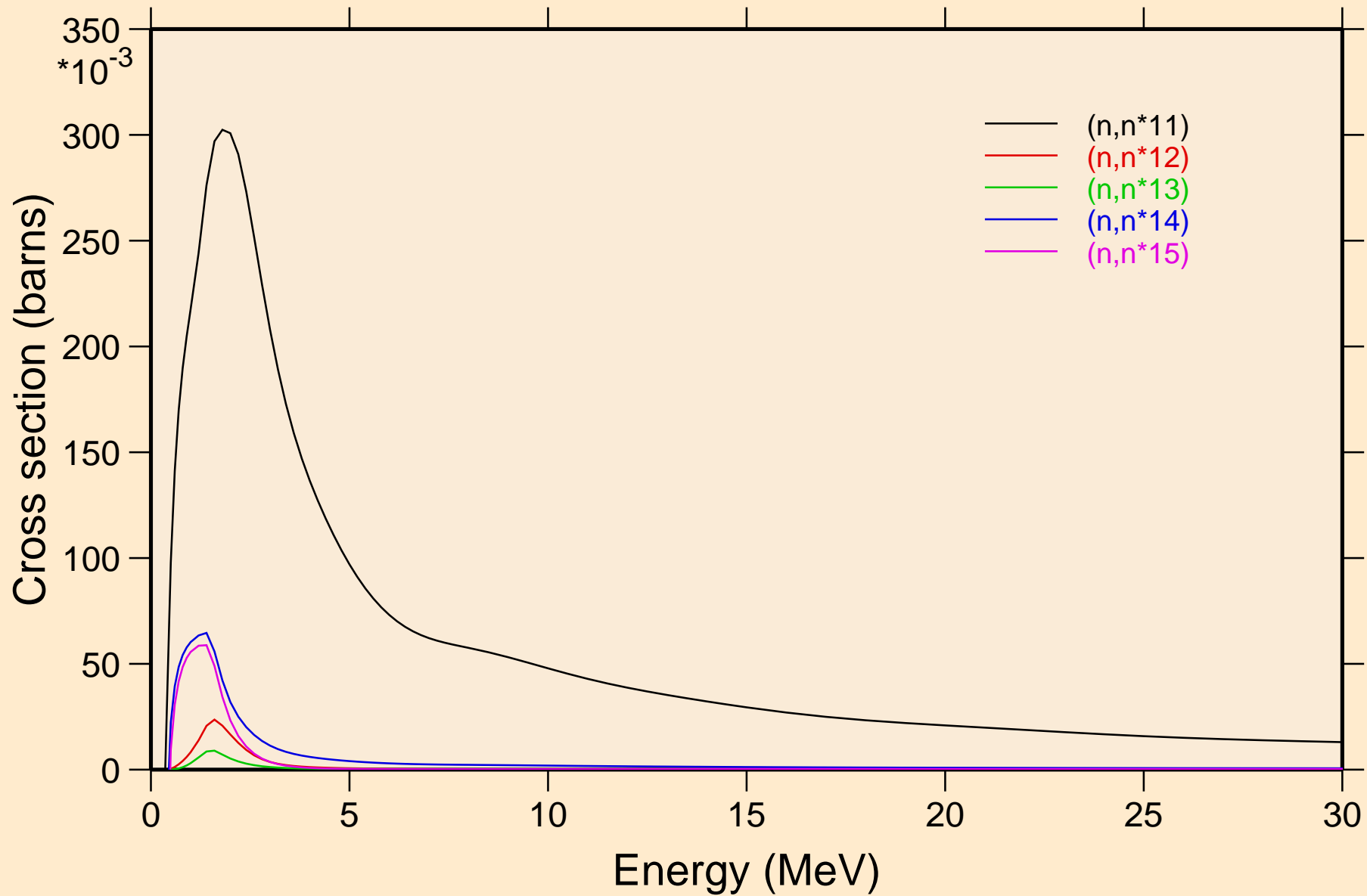


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

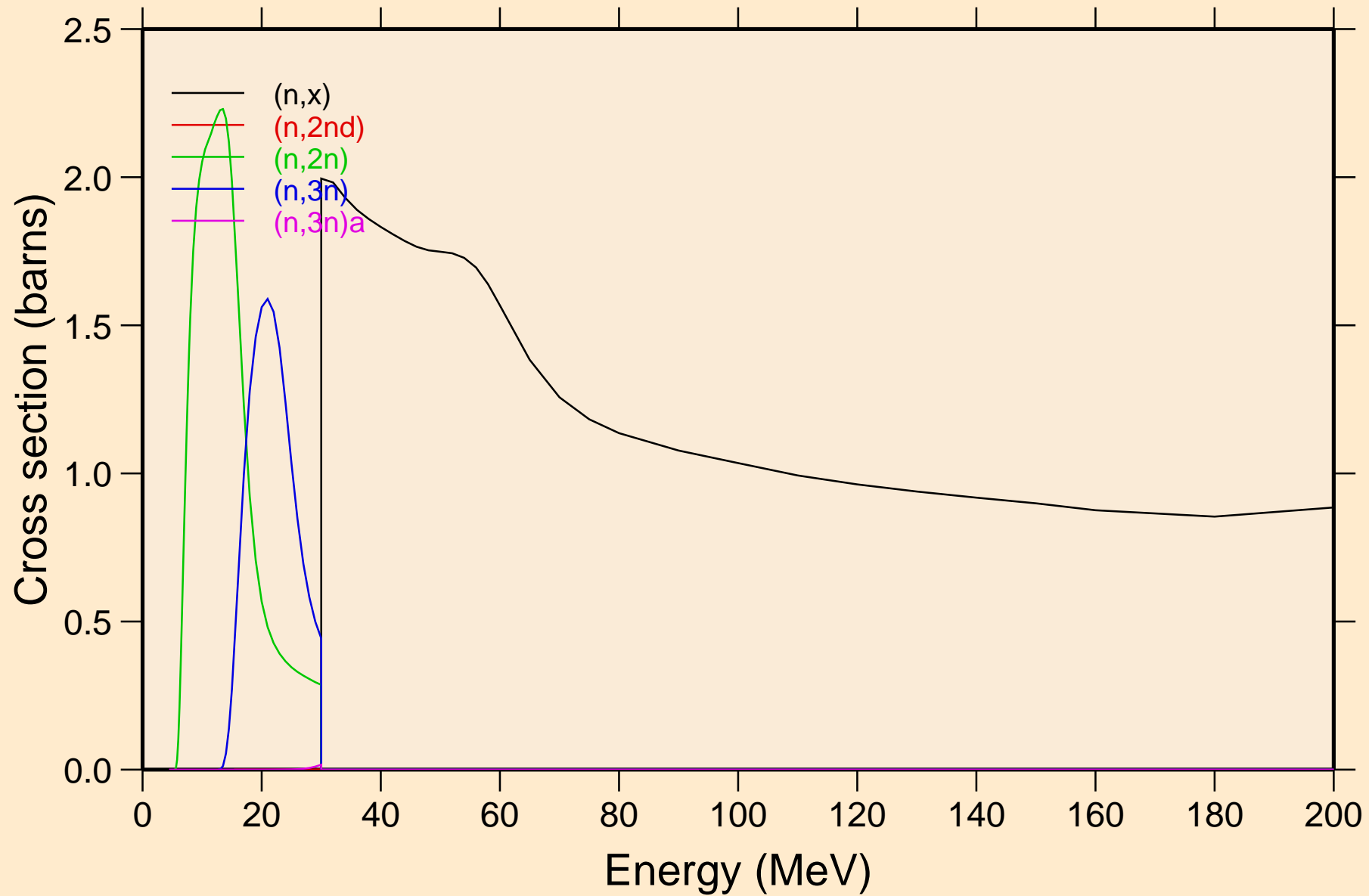




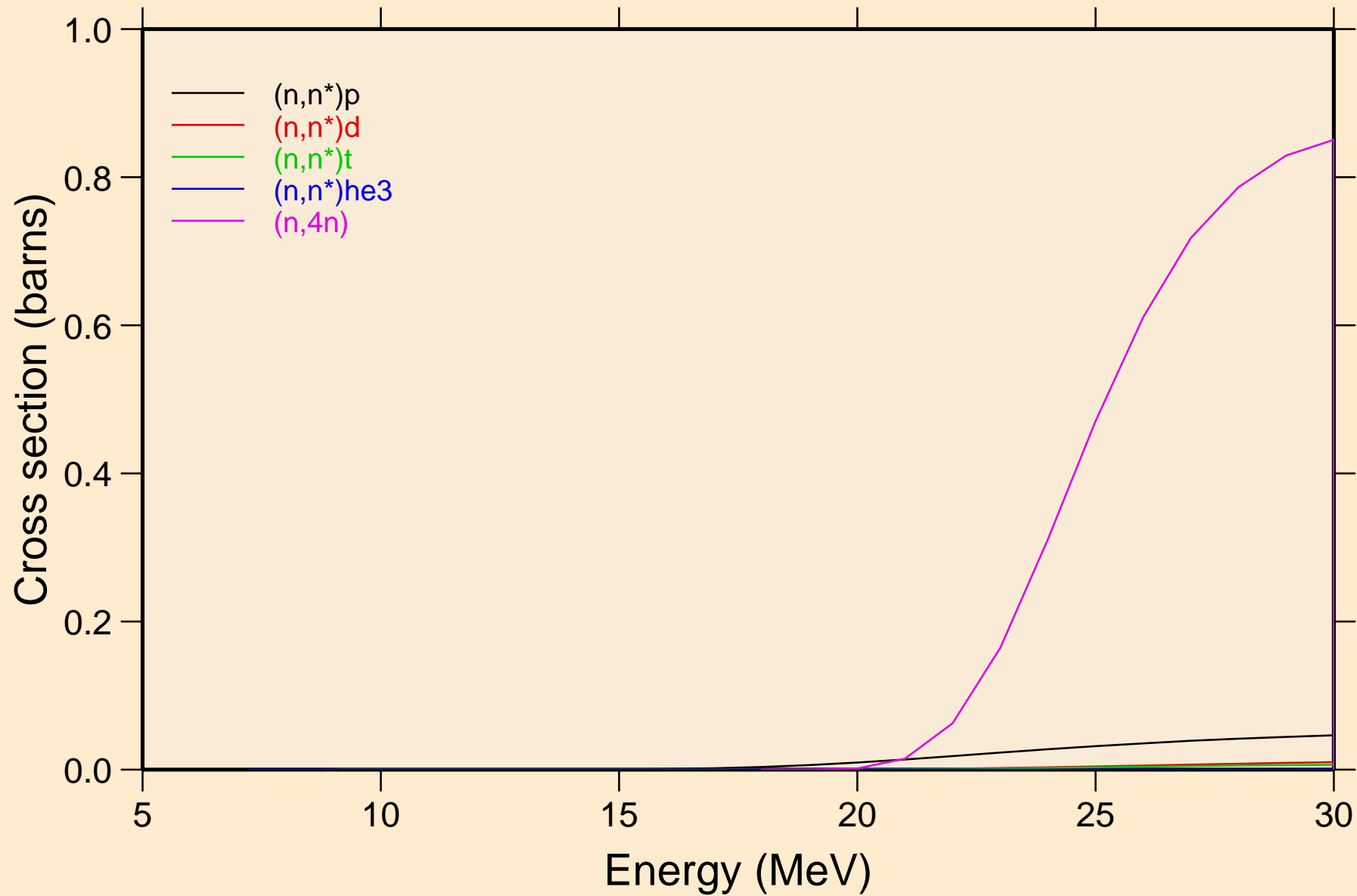
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



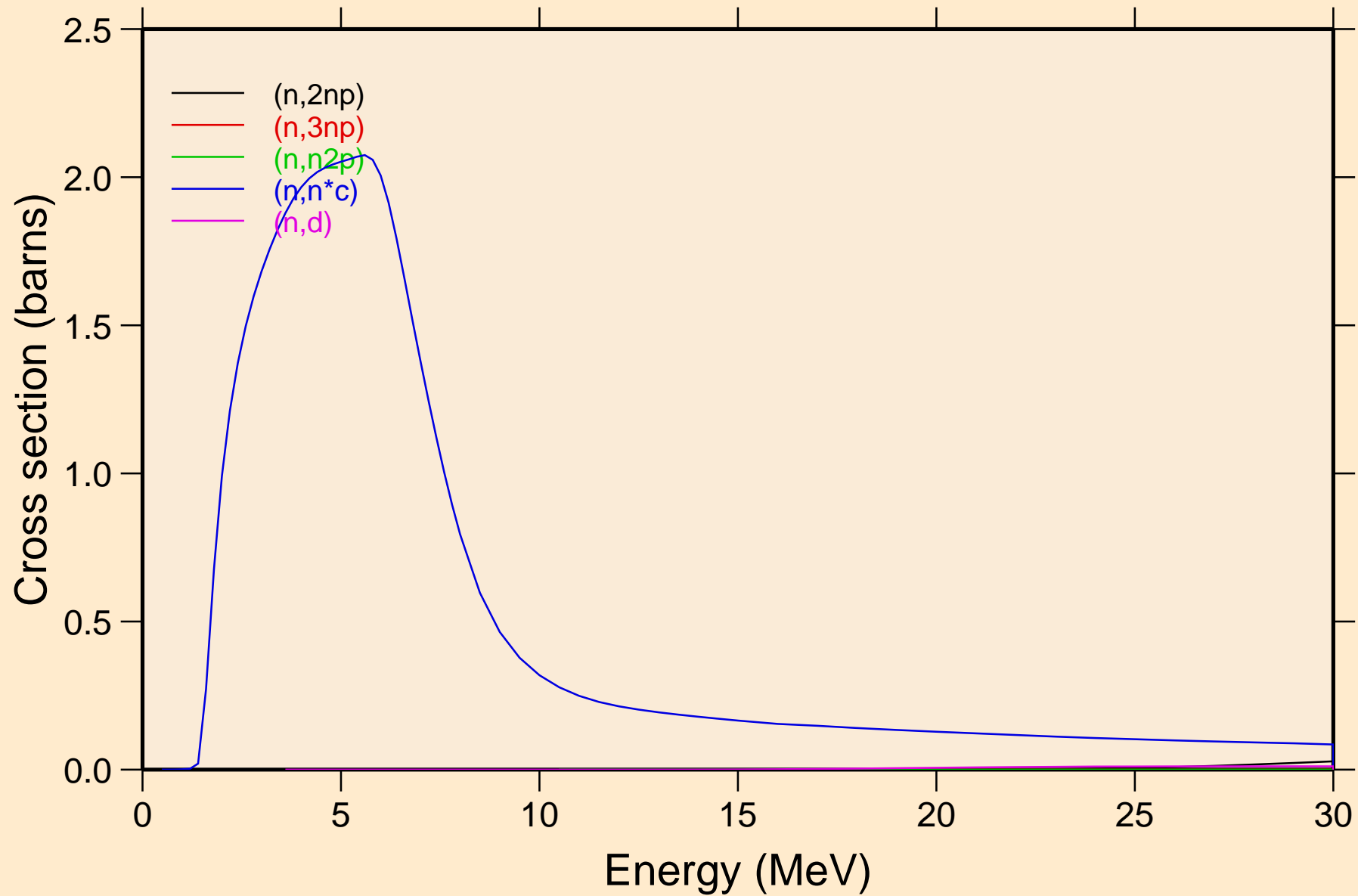
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



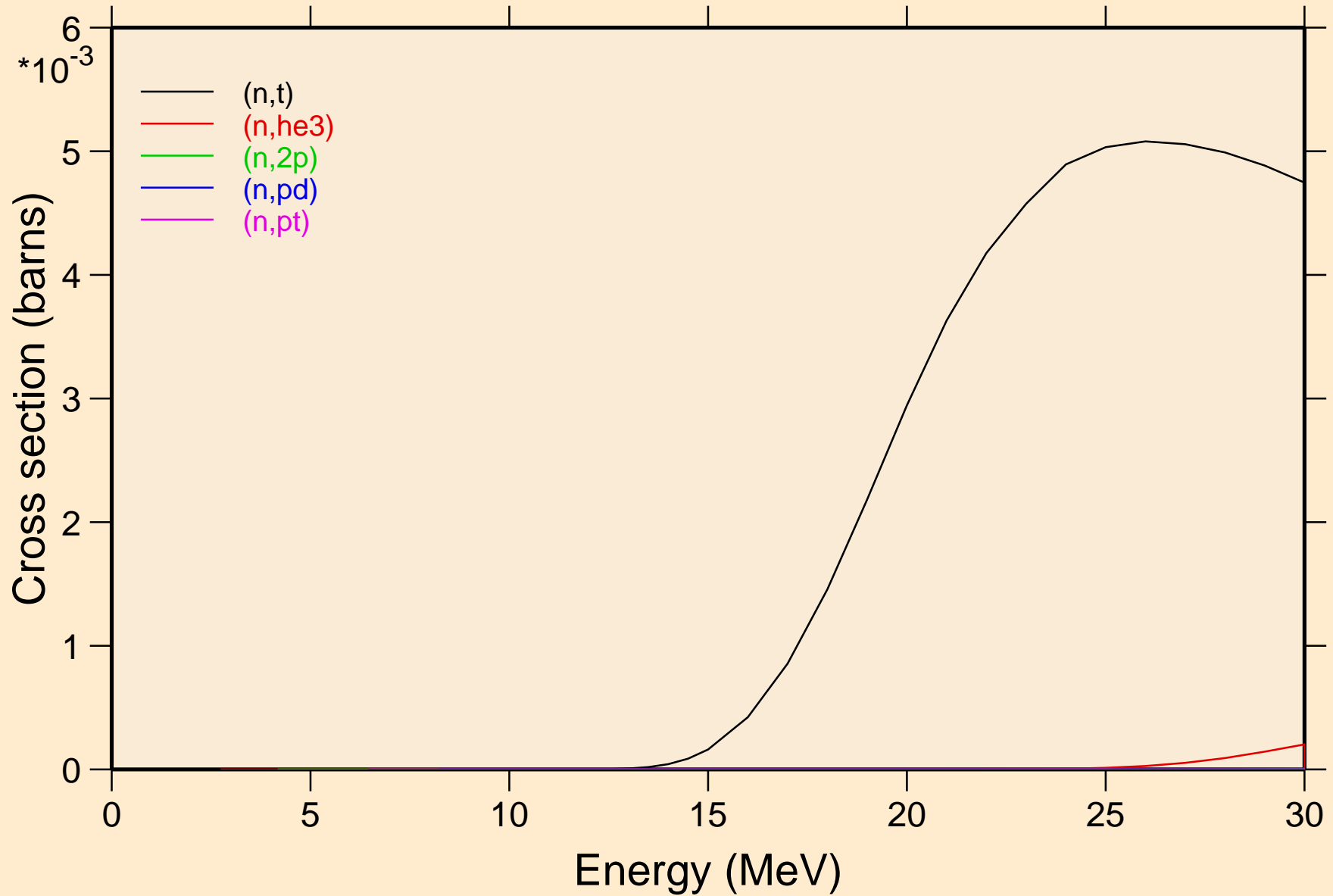
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



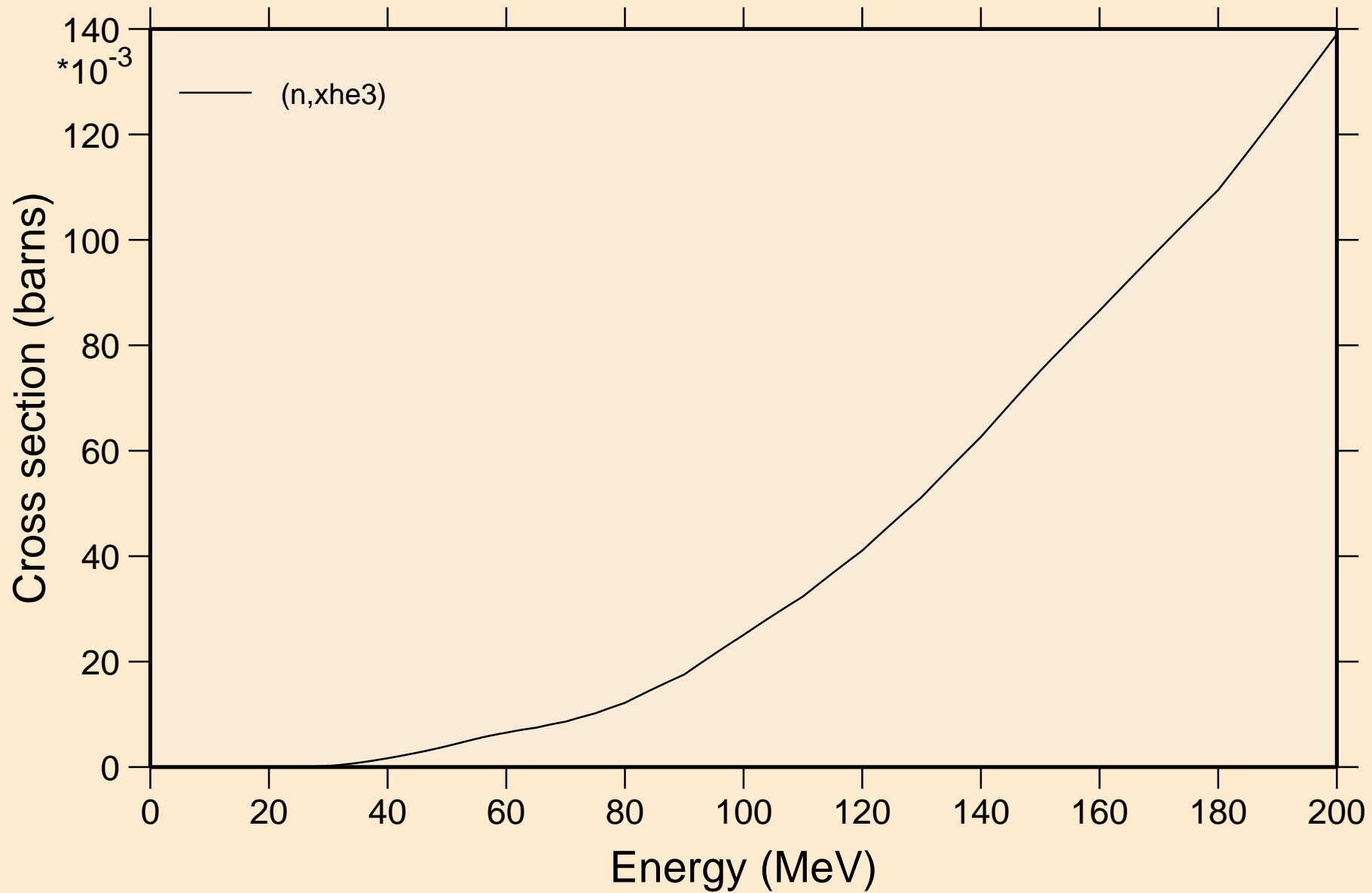
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



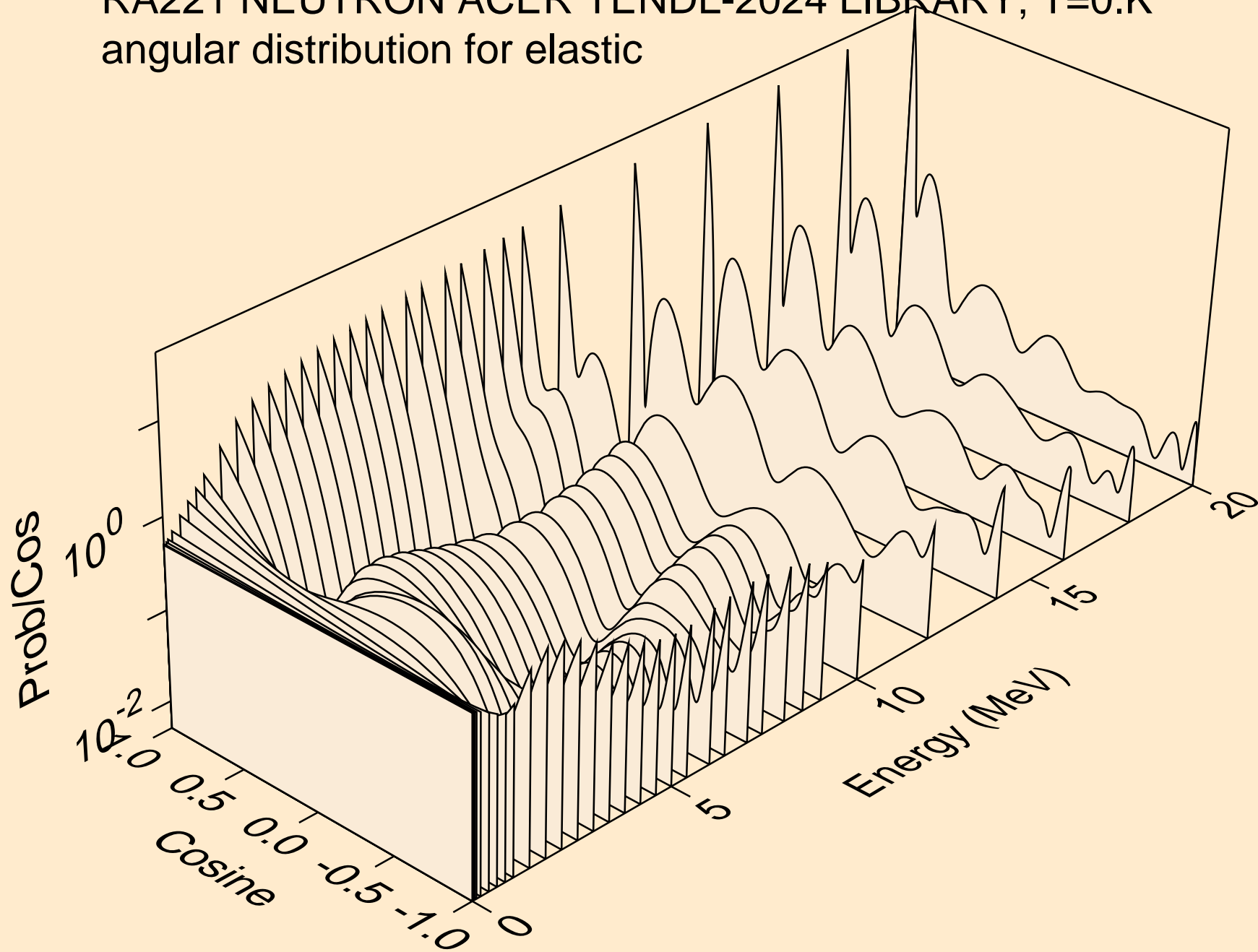
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



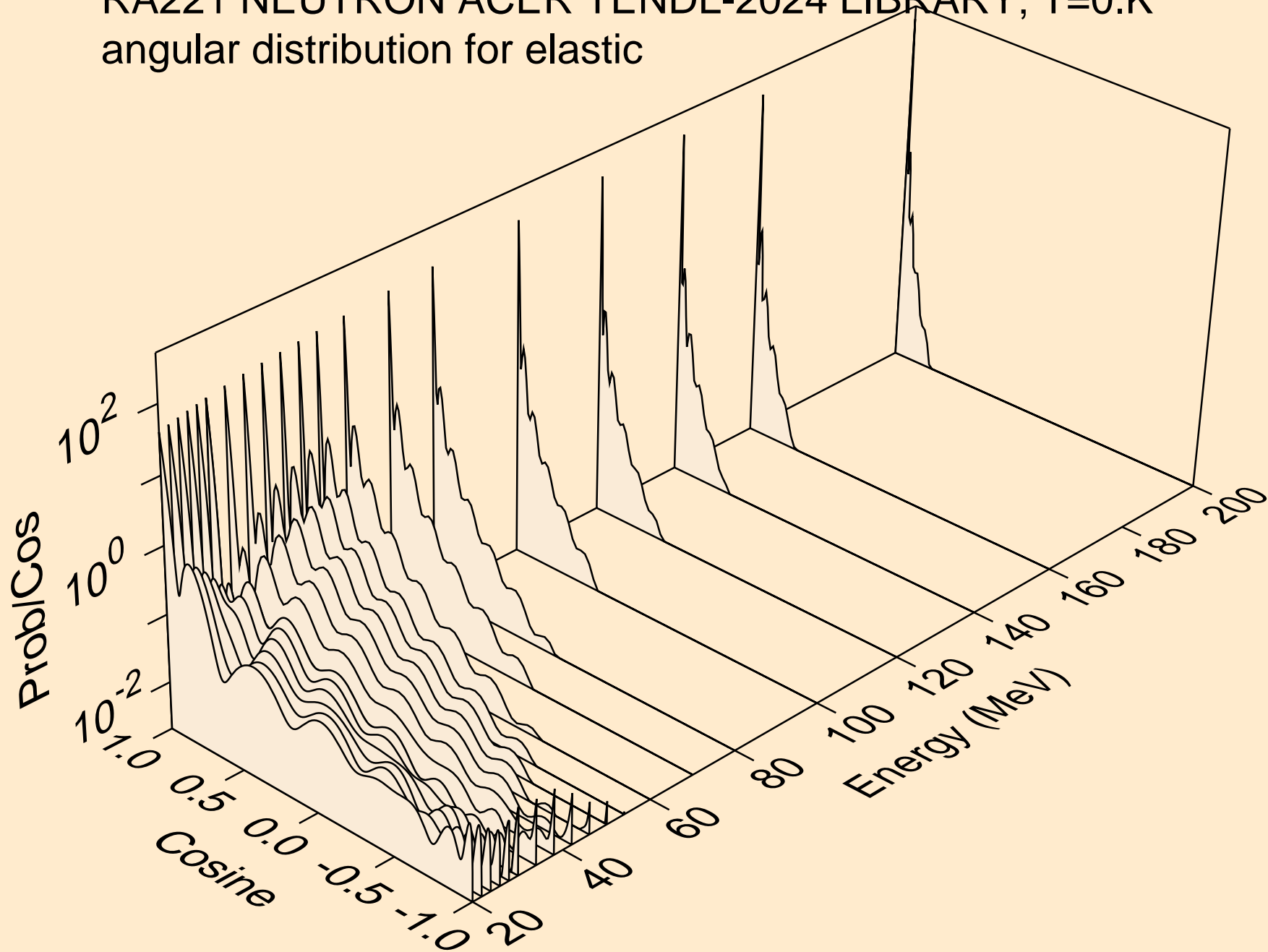
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

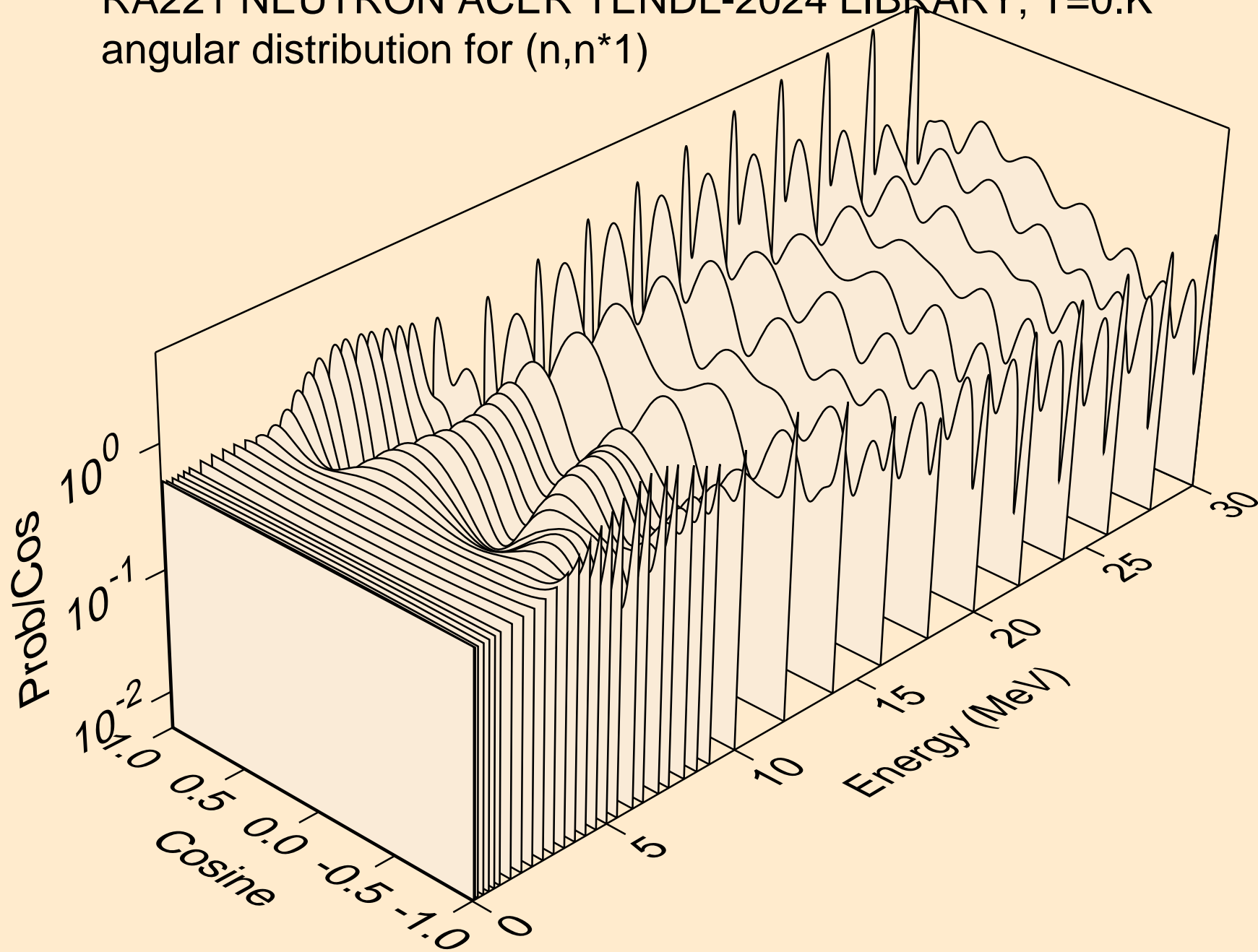


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

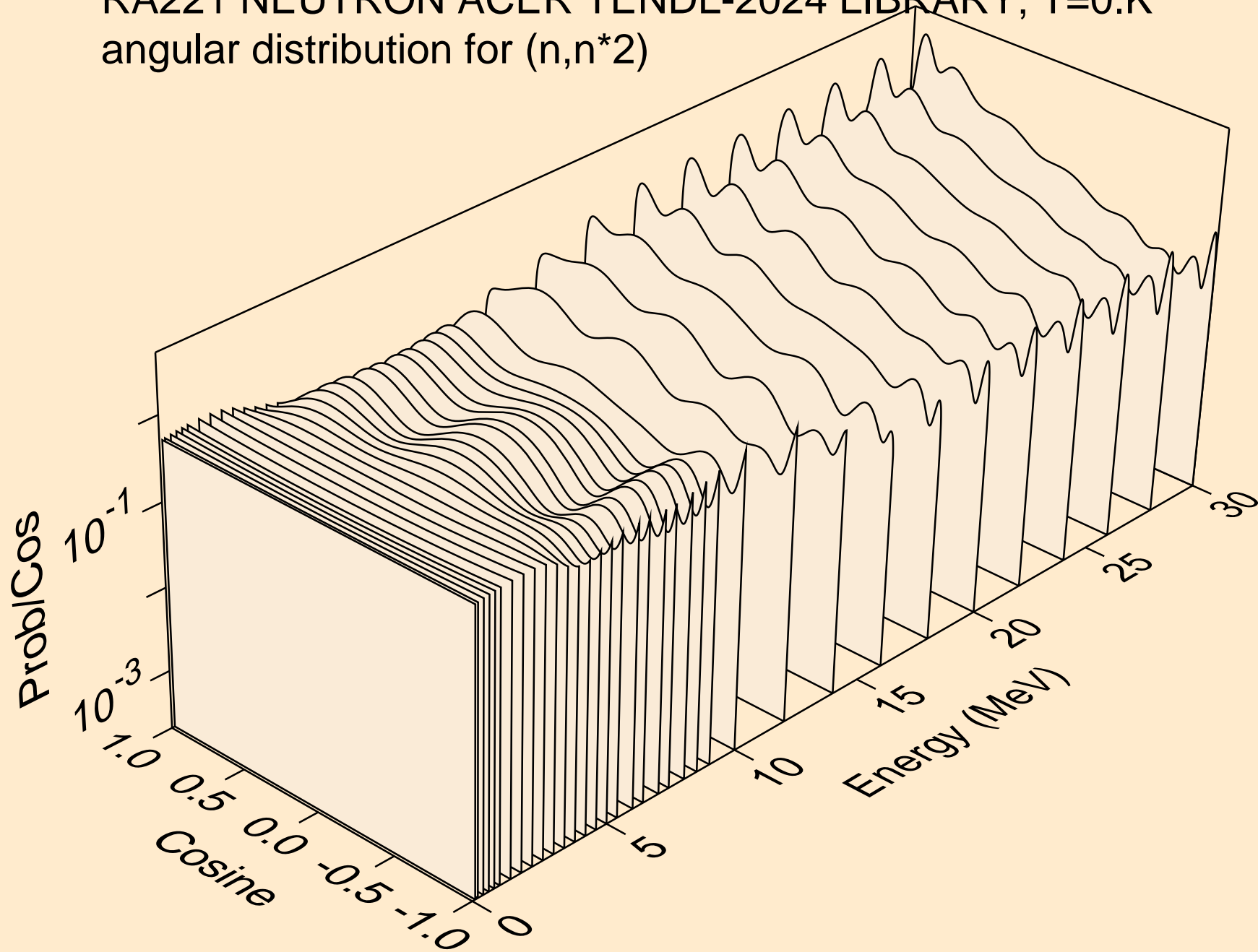




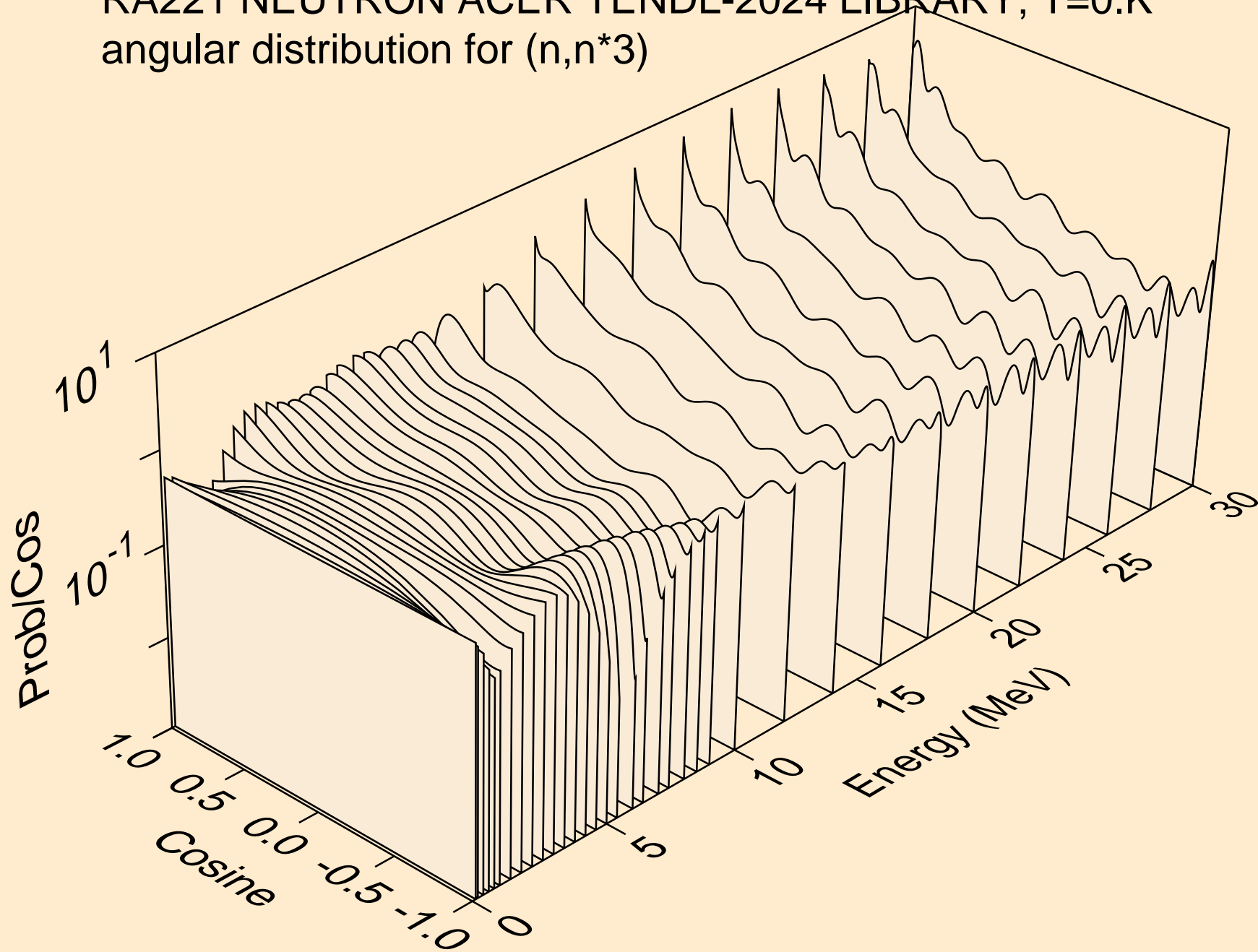
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



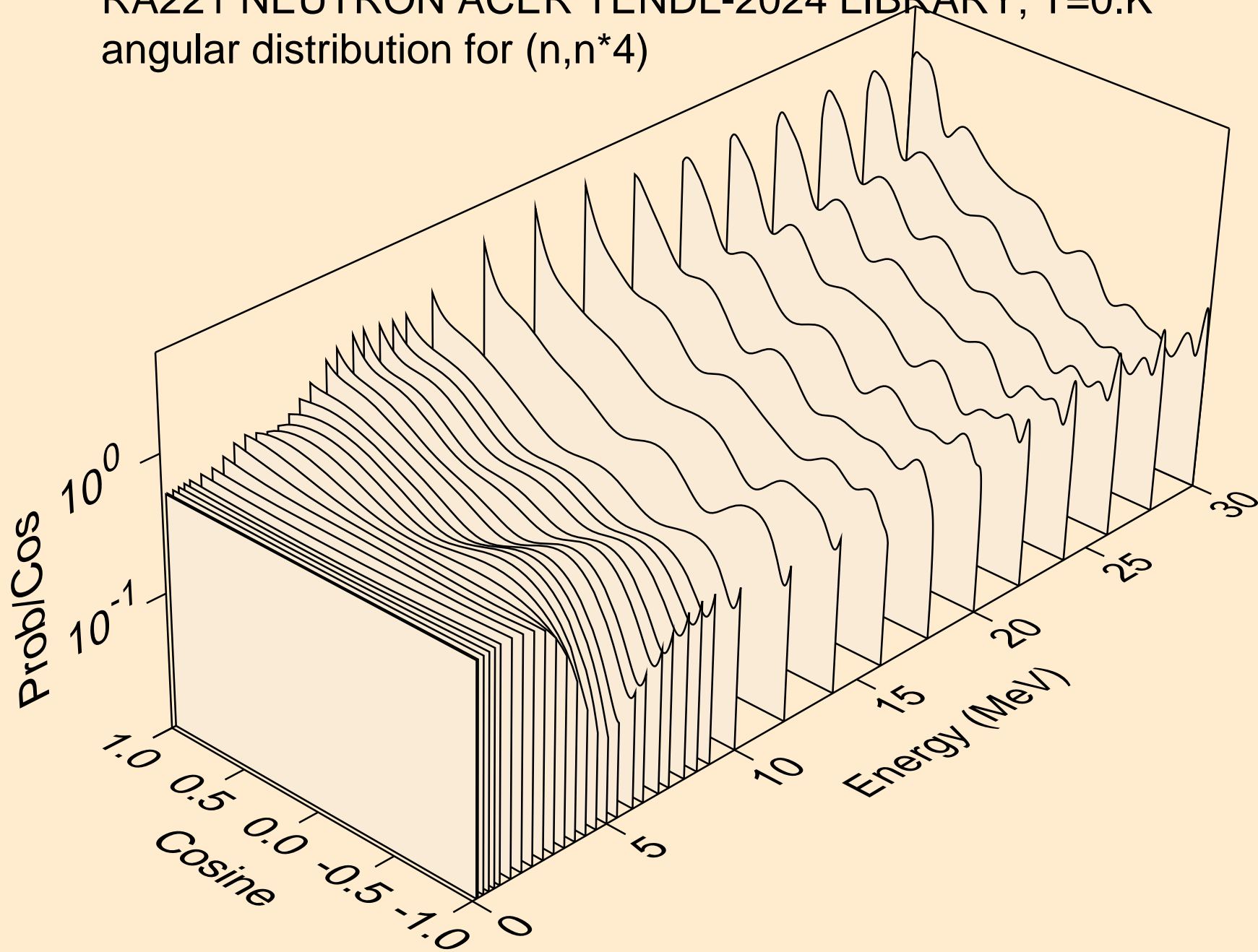
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



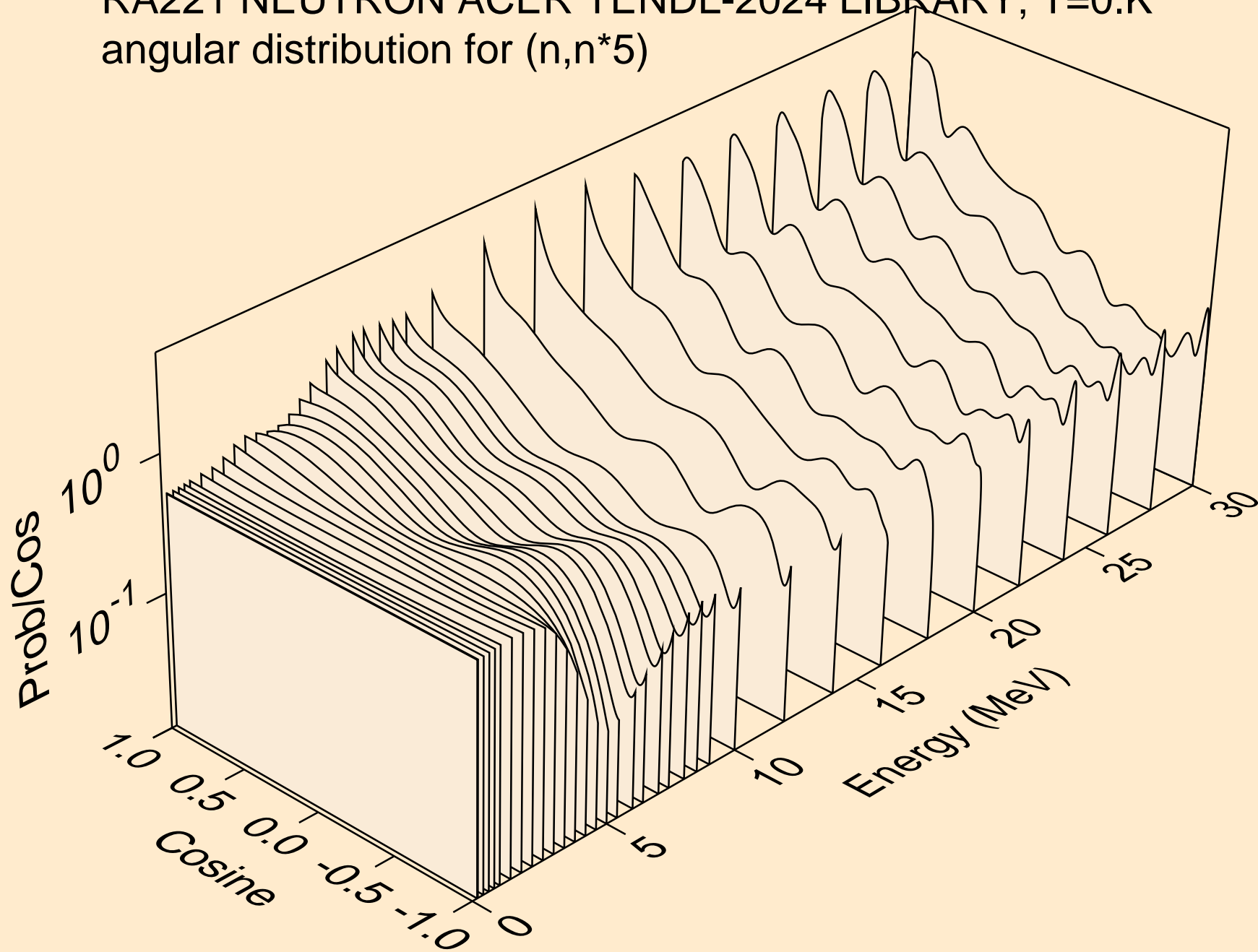
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



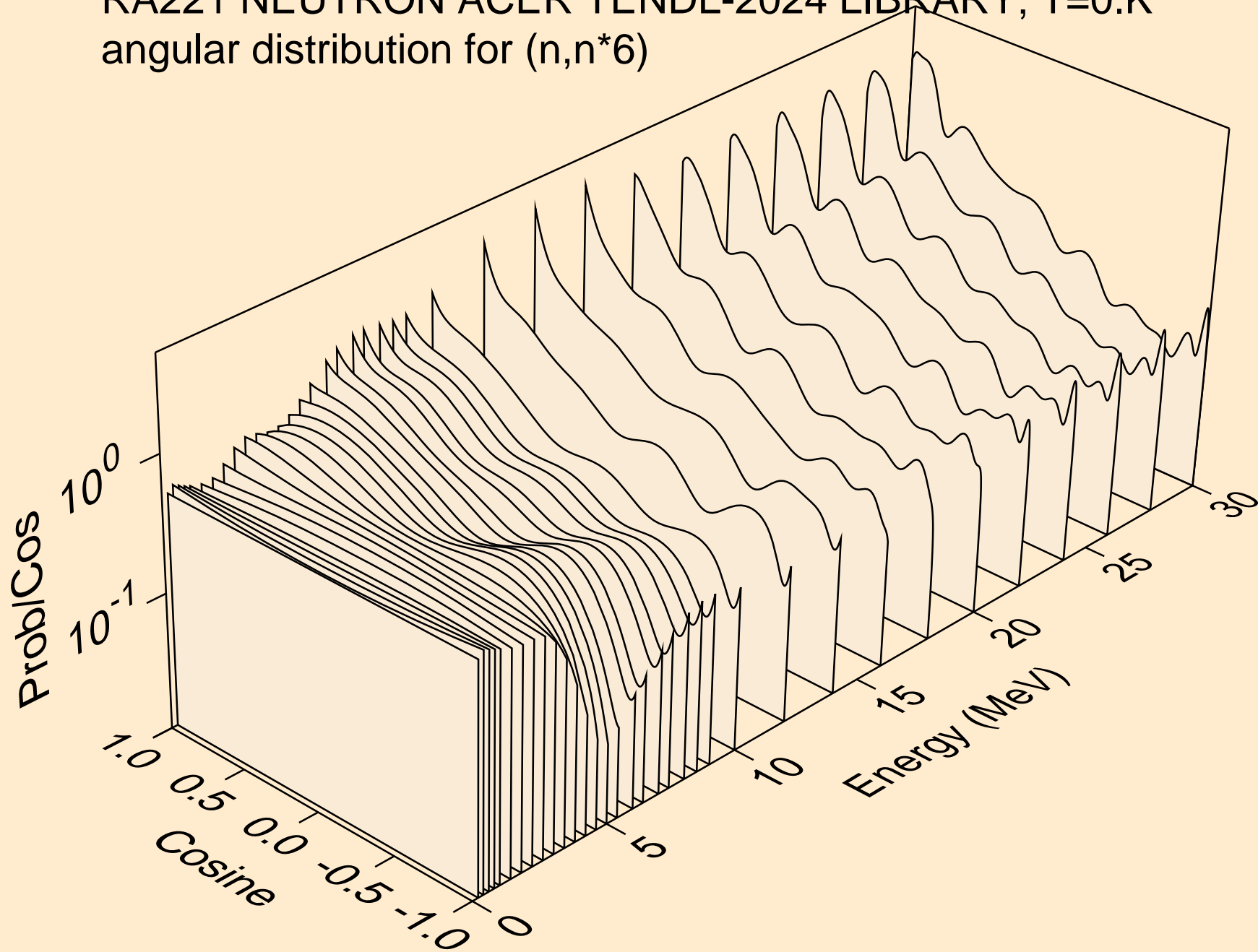
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angular distribution for (n,n\*4)



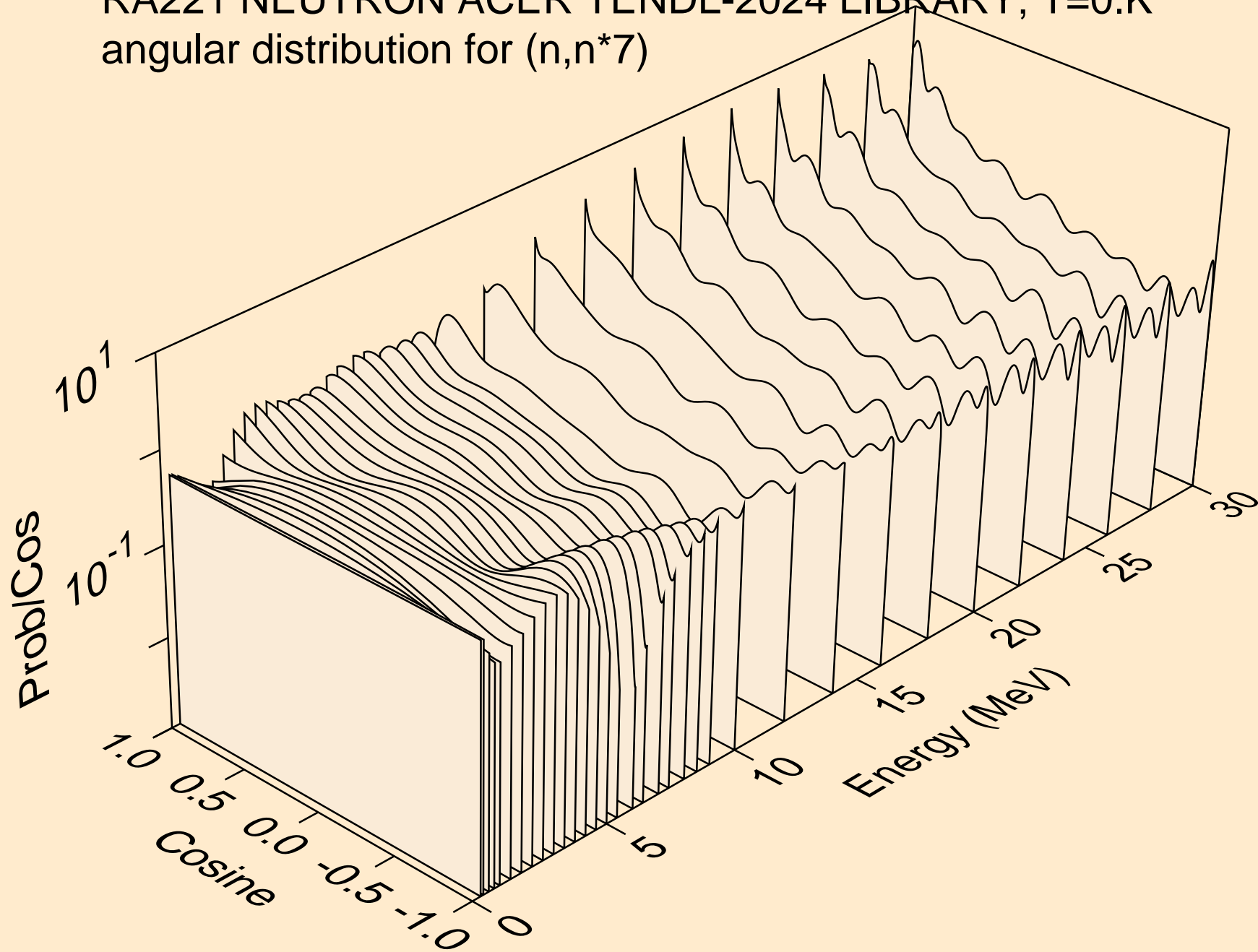
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

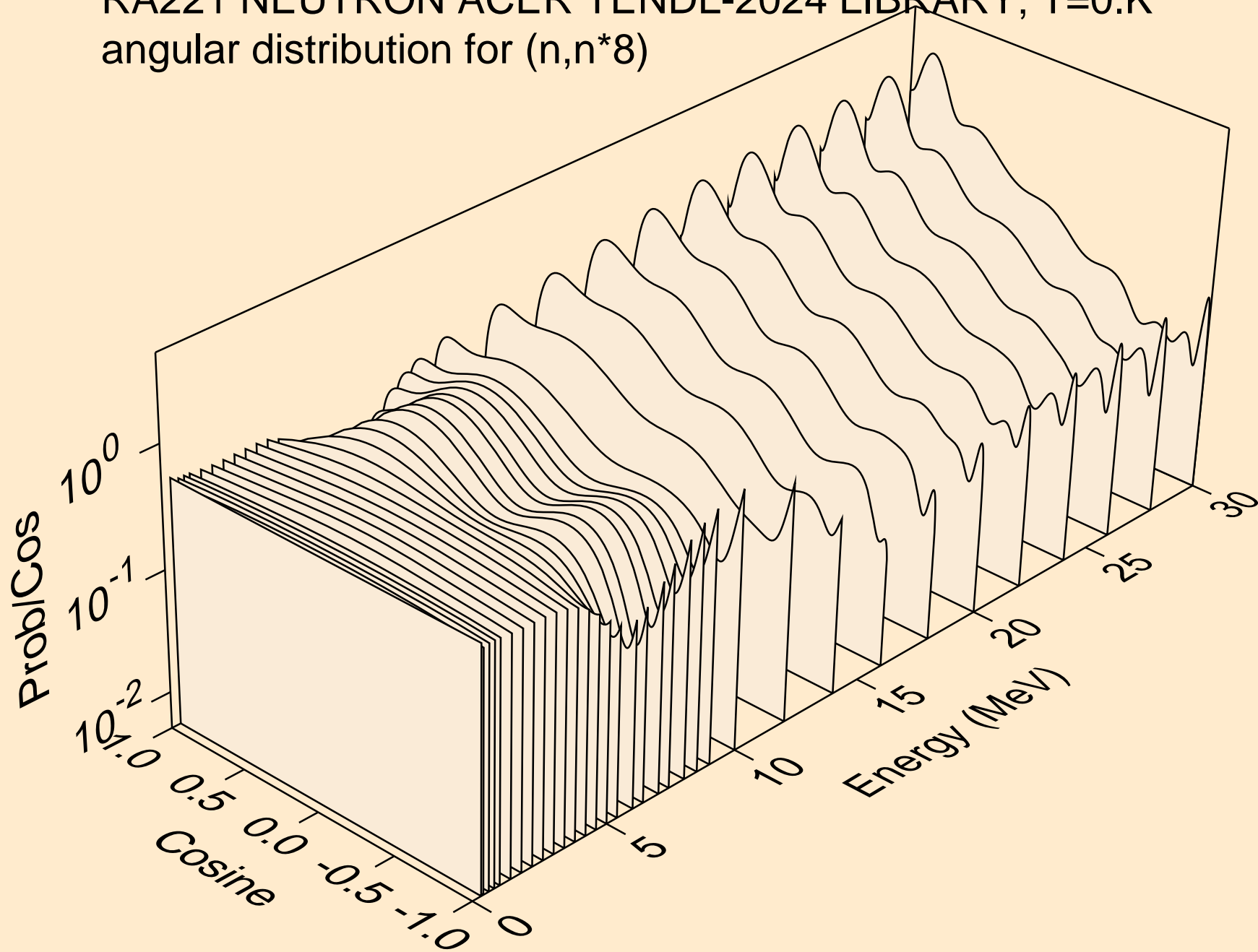


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



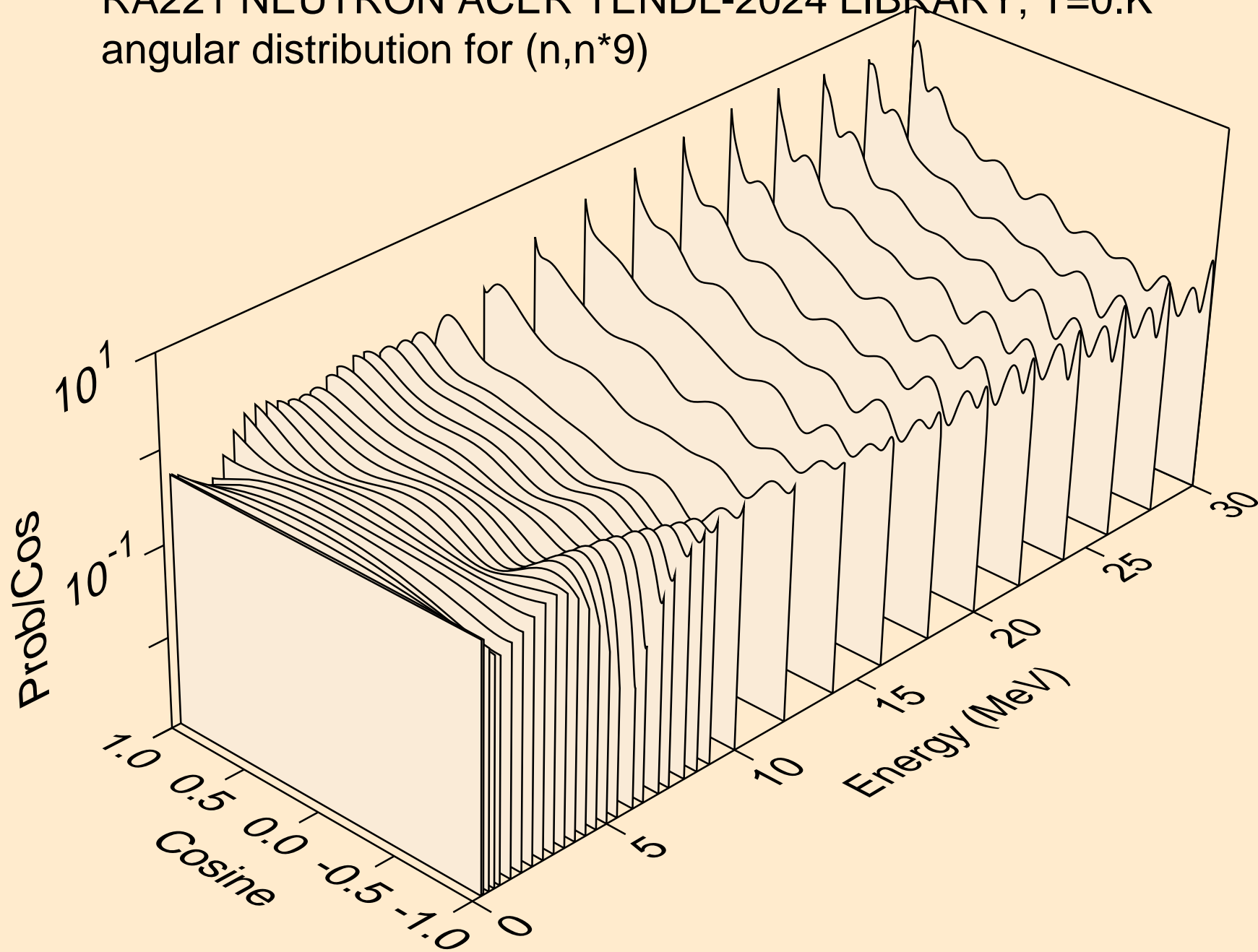


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)

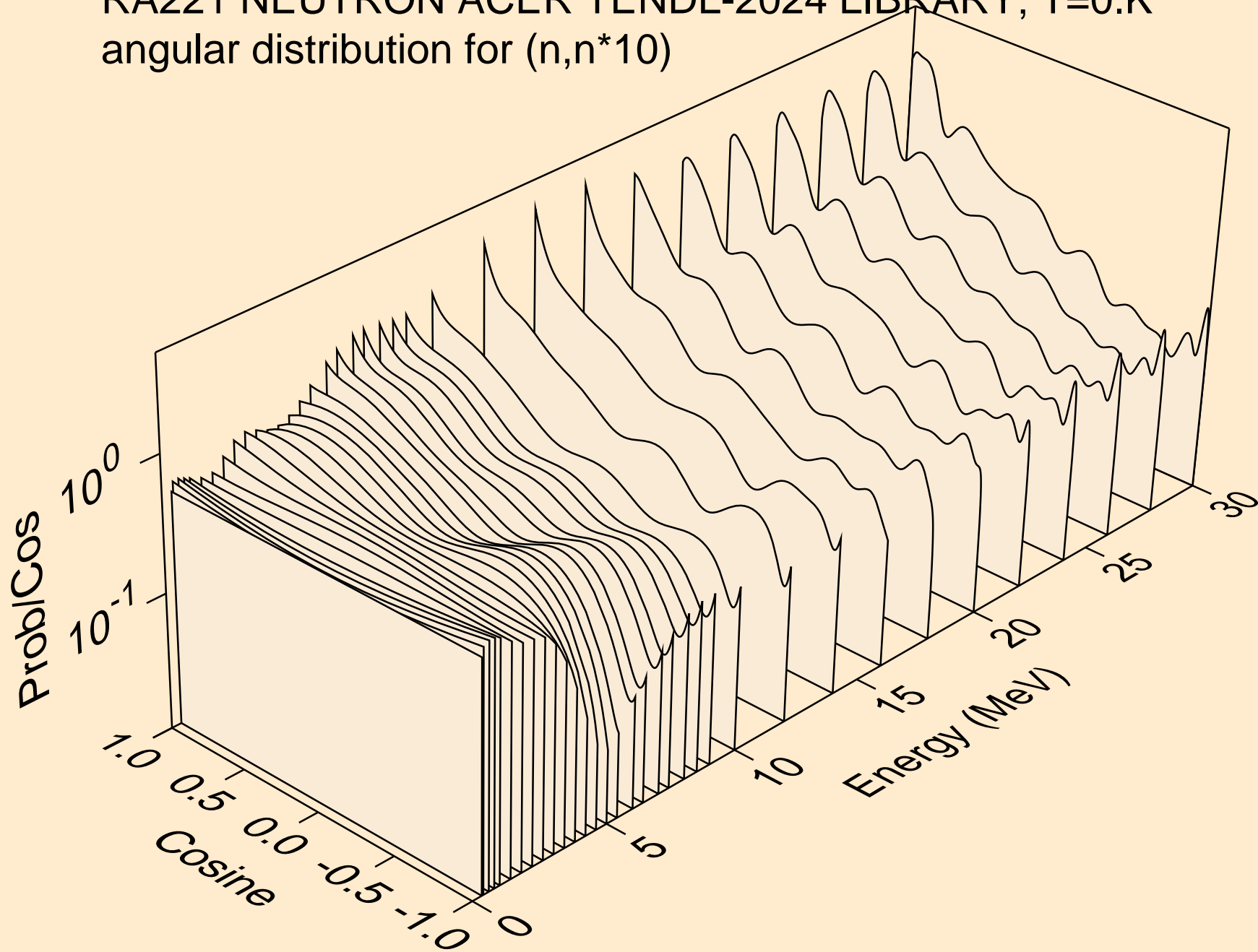




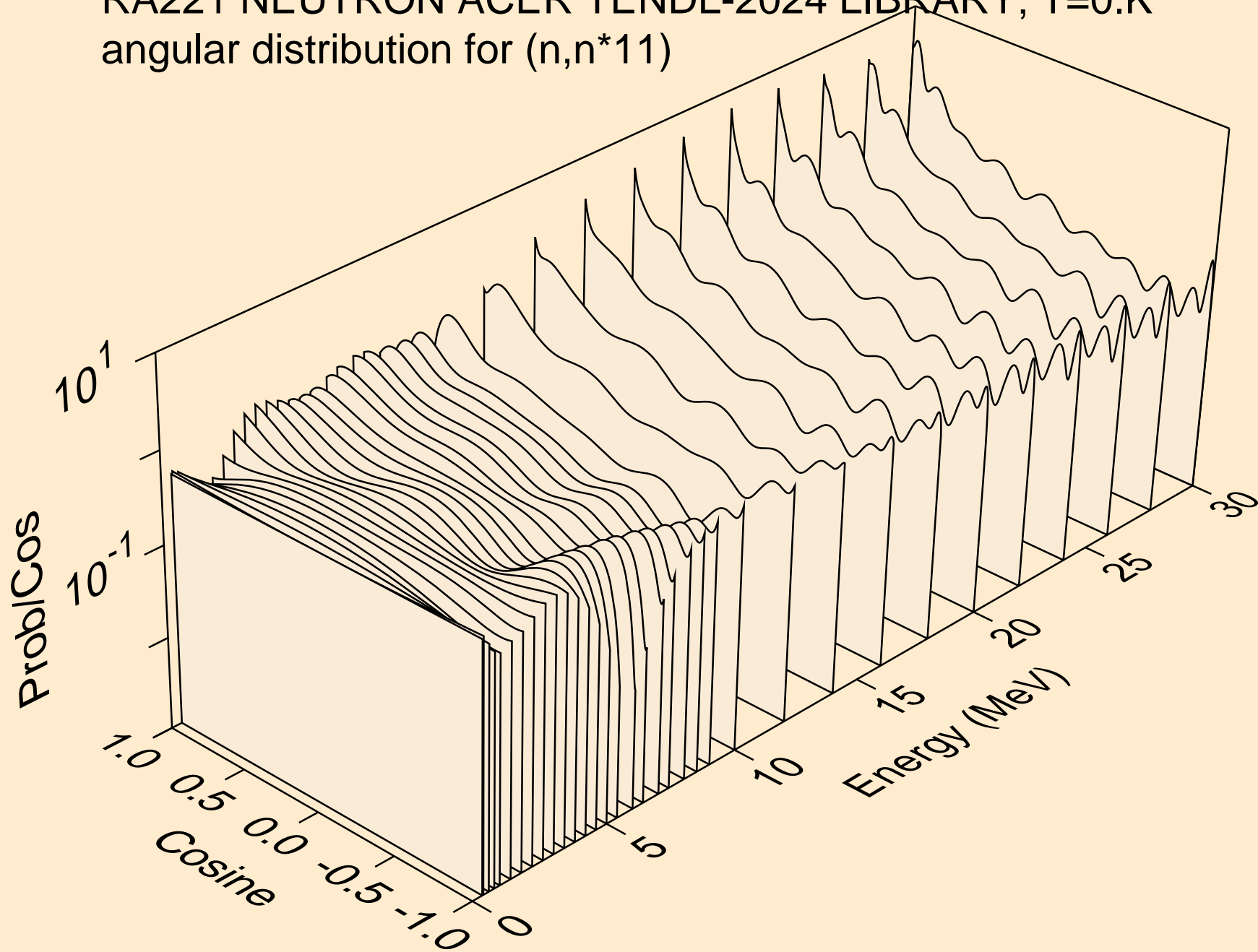
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angular distribution for (n,n\*9)



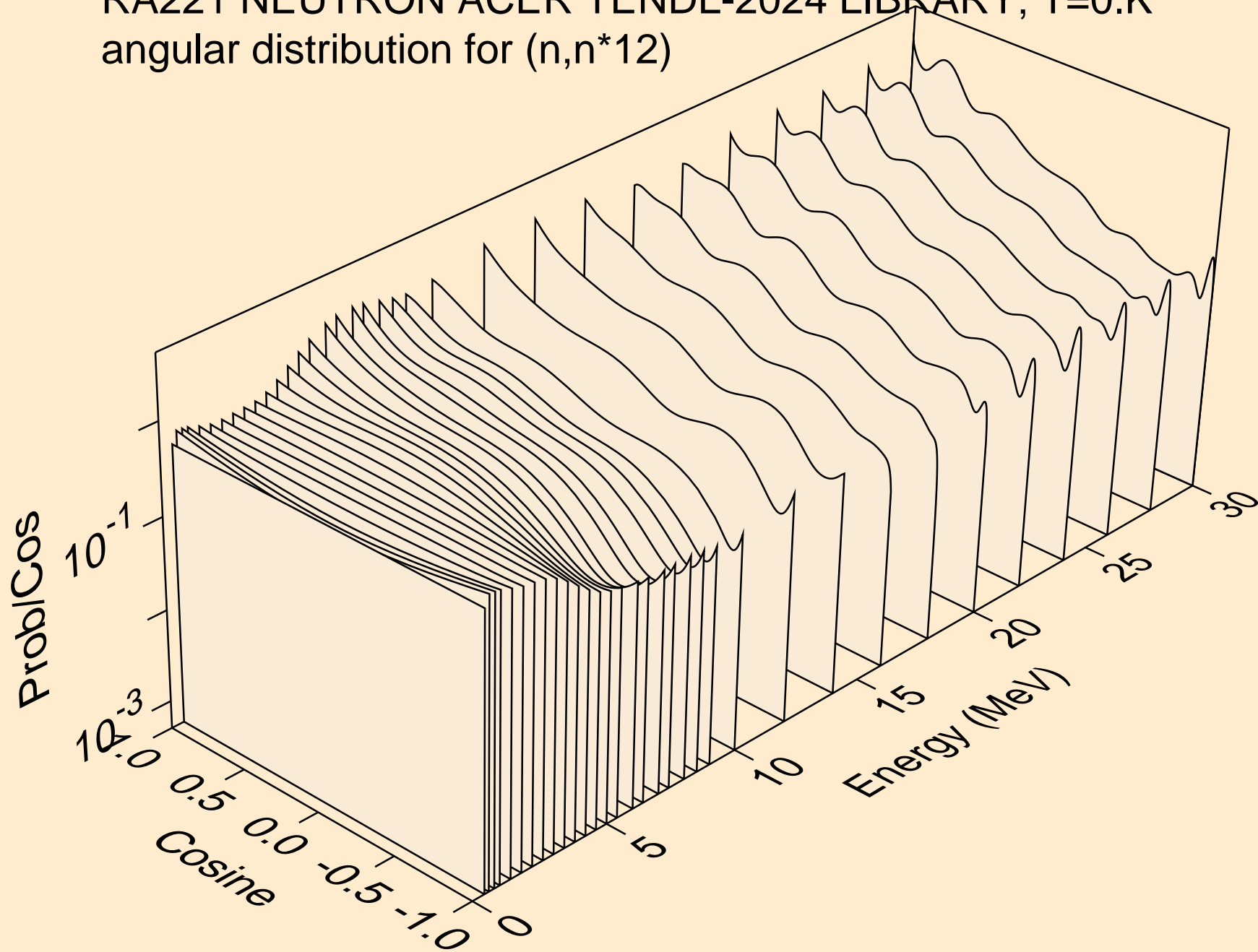
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



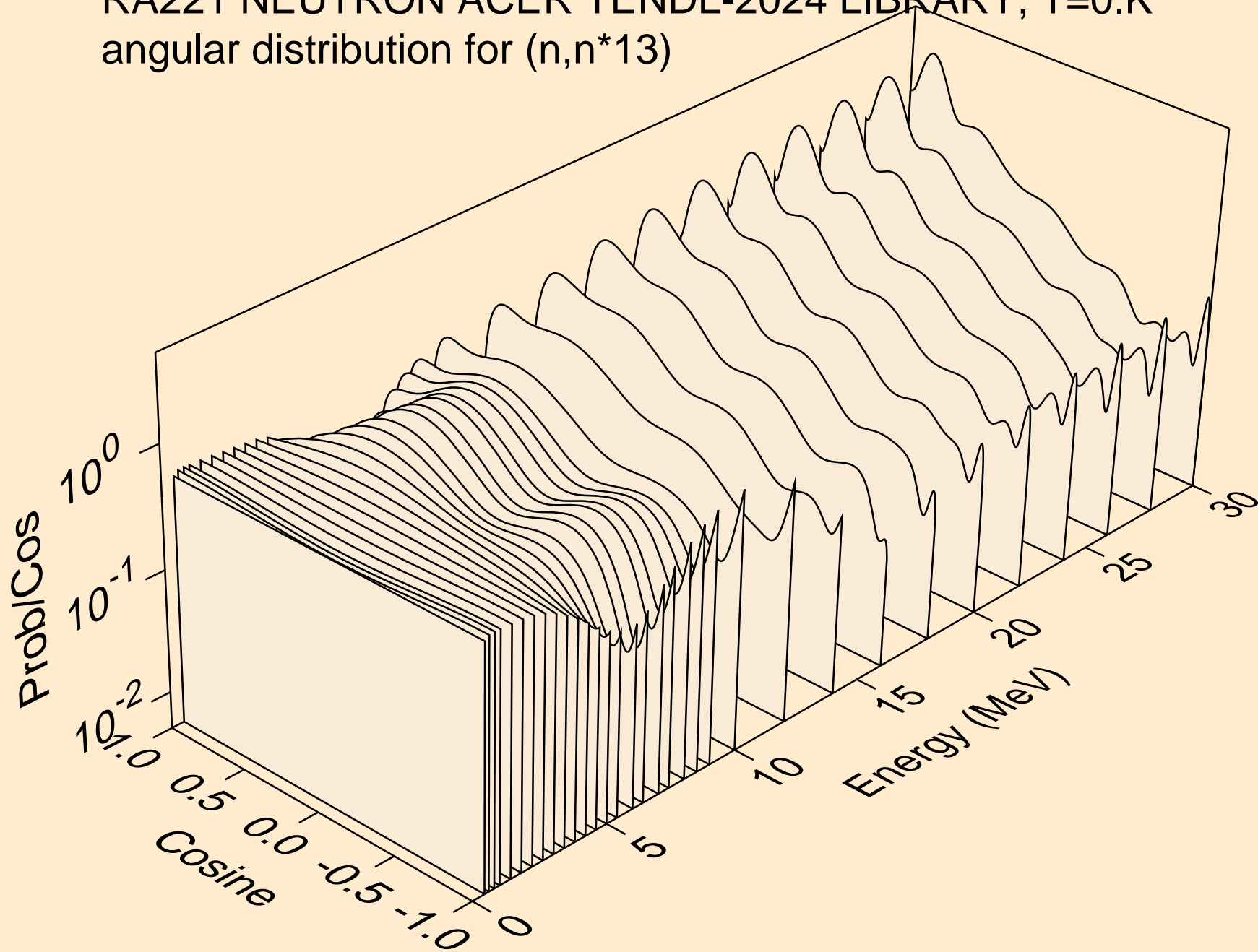
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angular distribution for (n,n\*11)



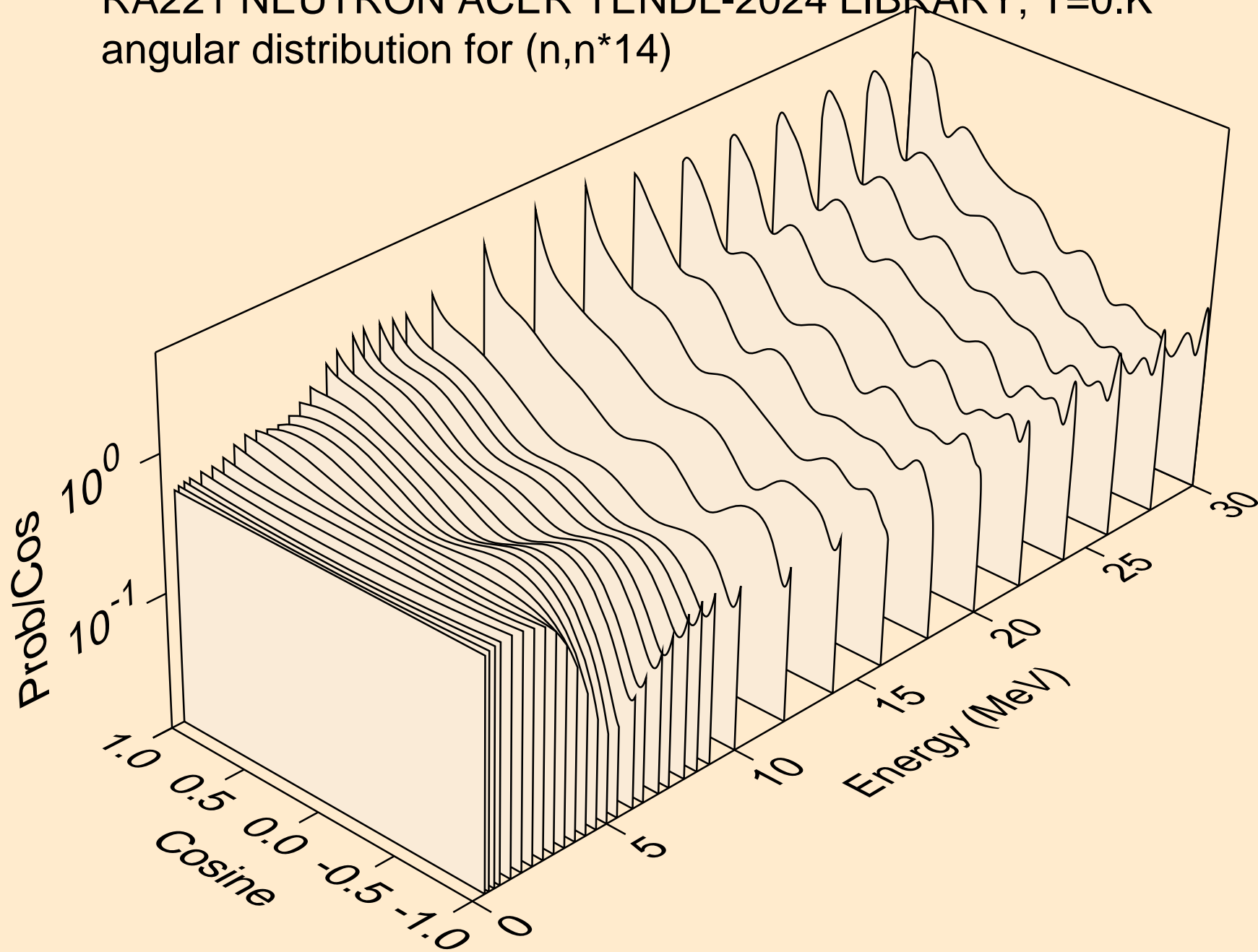
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angular distribution for (n,n\*12)



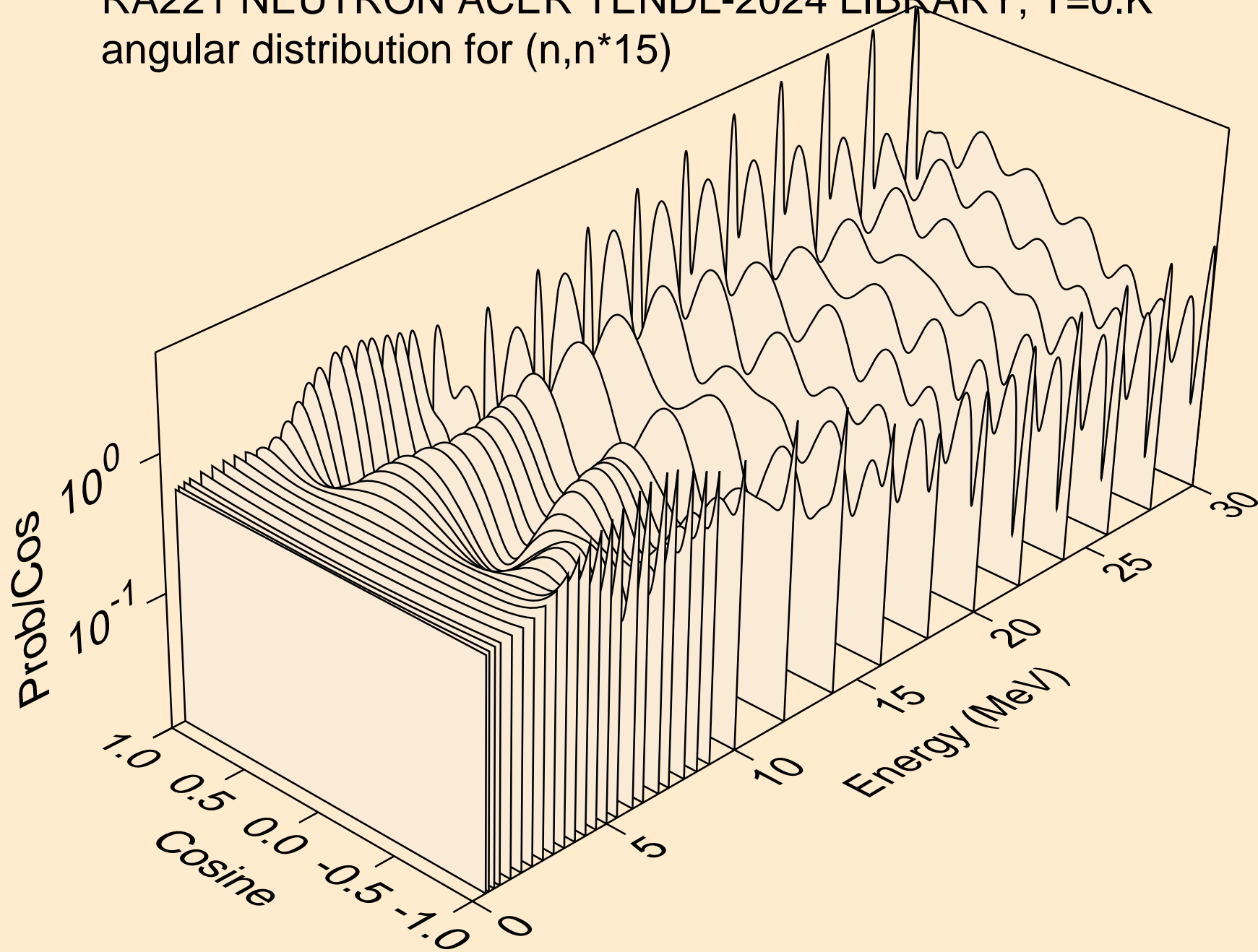
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

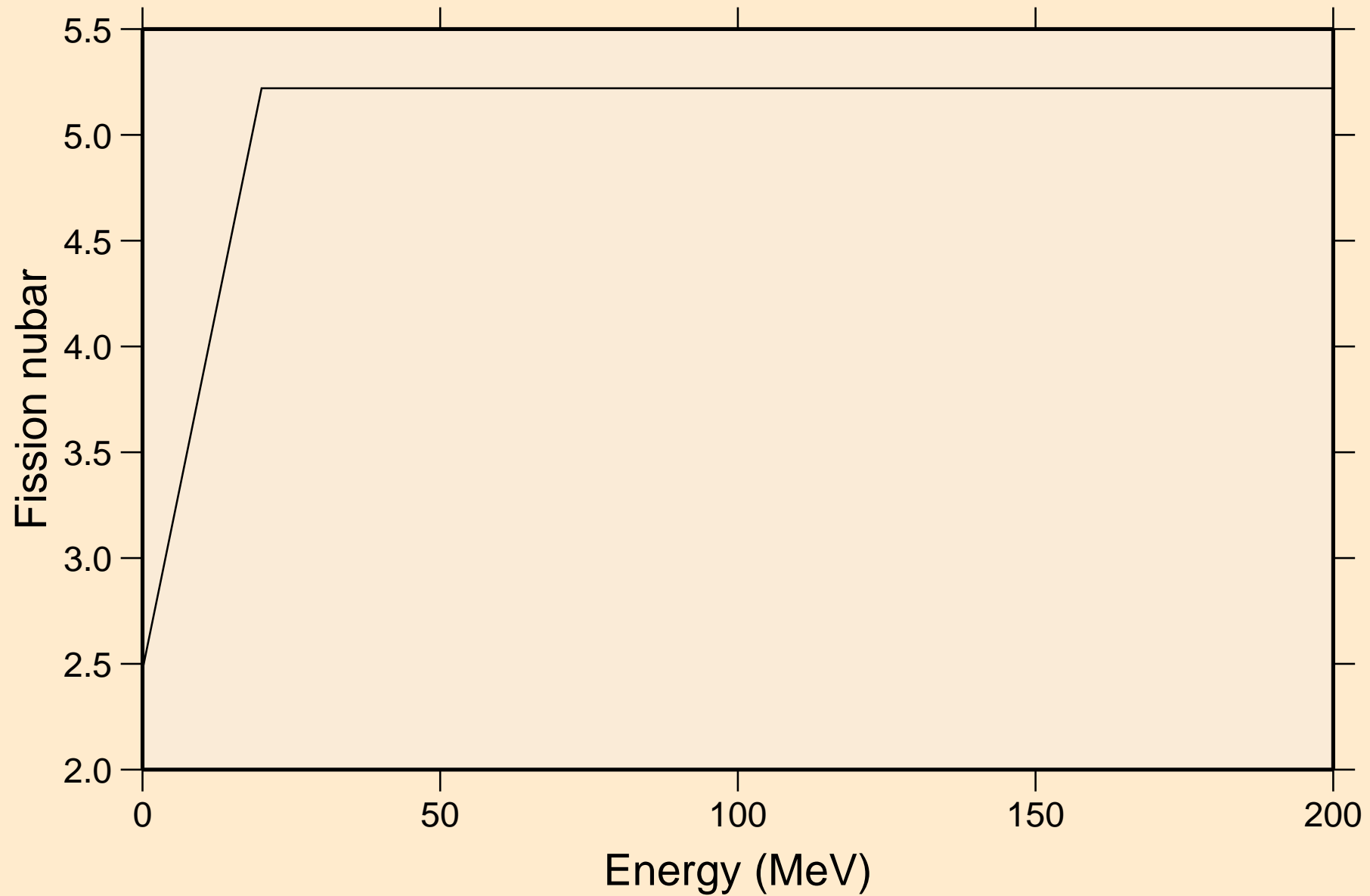


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



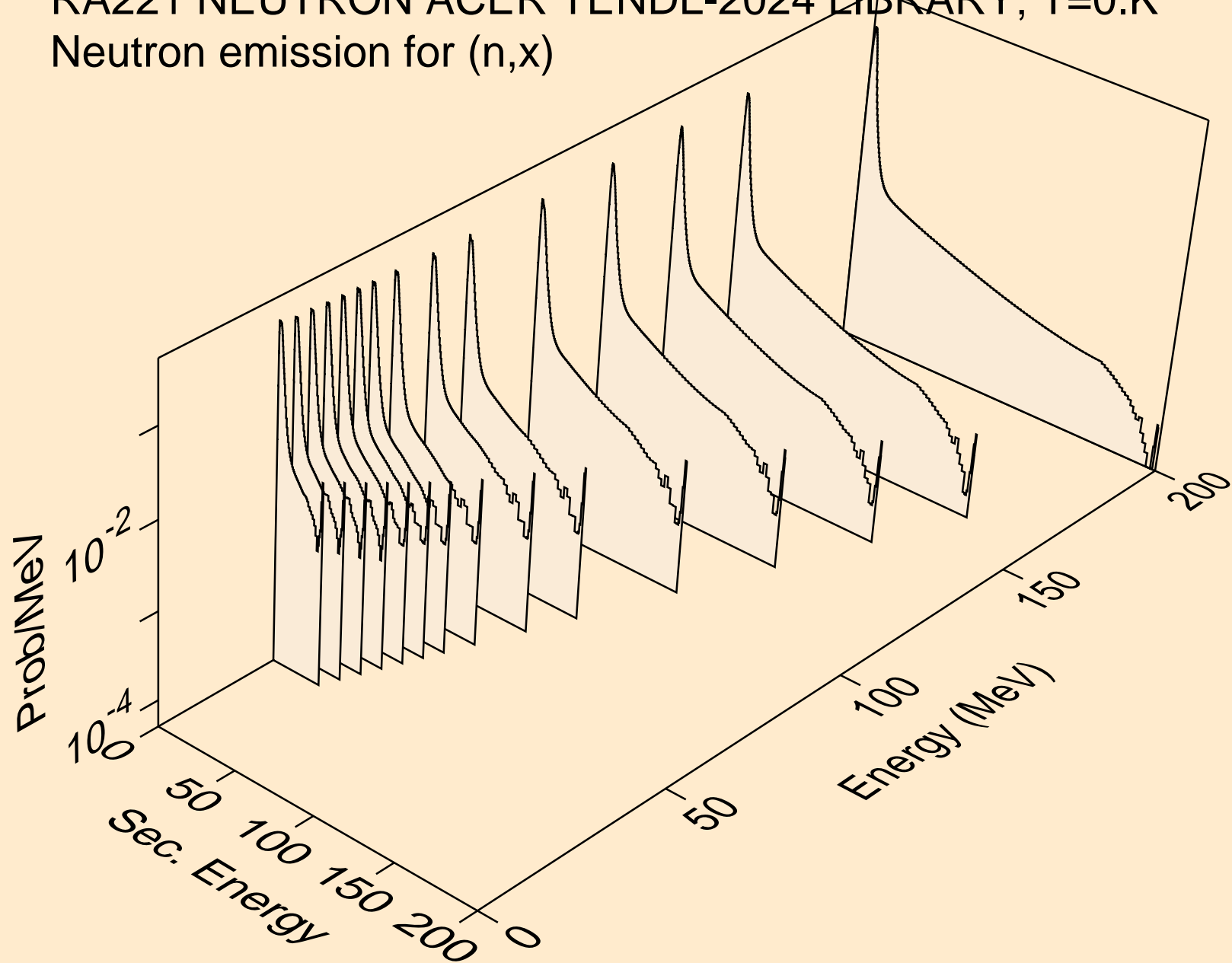
# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Total fission nubar

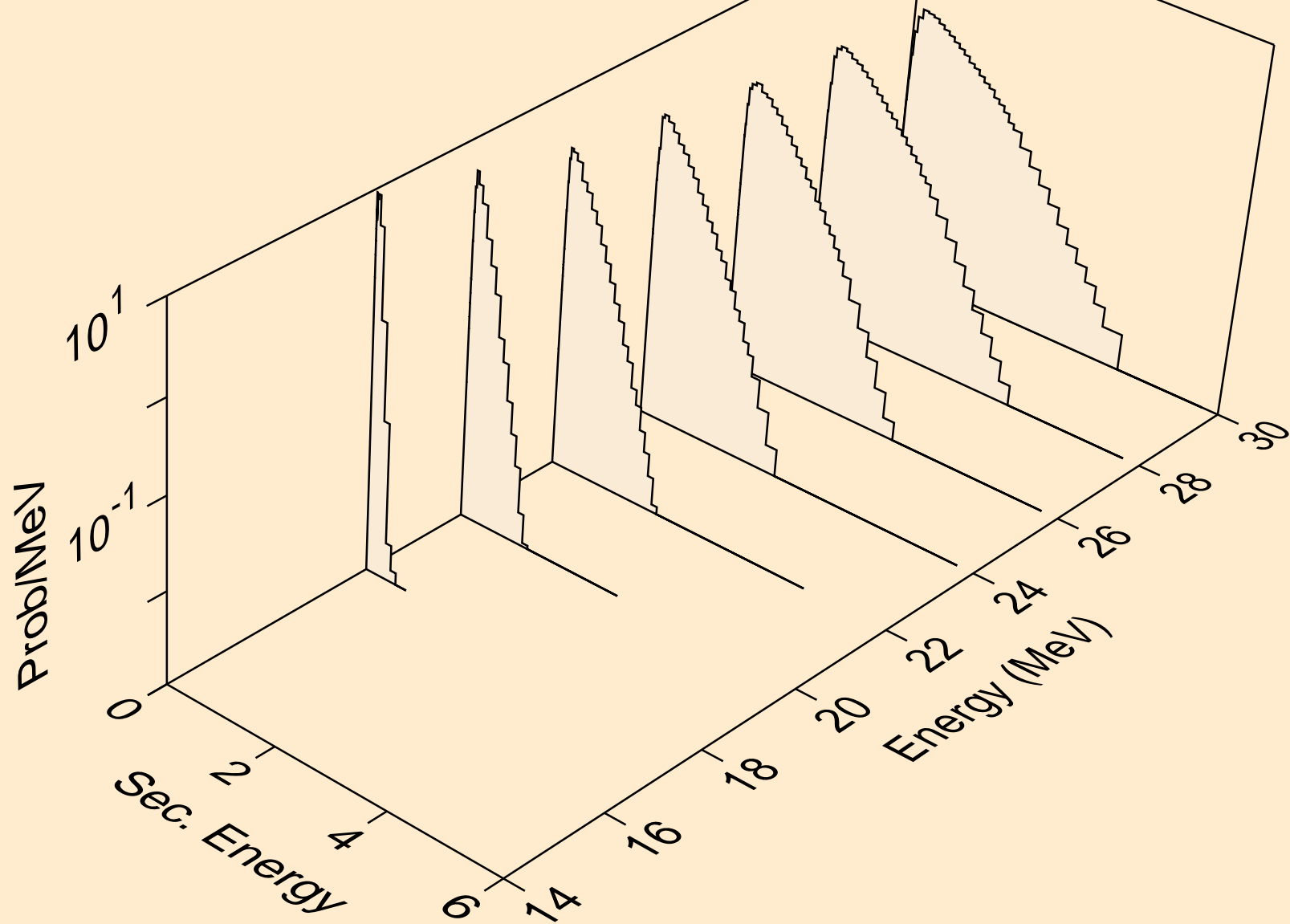




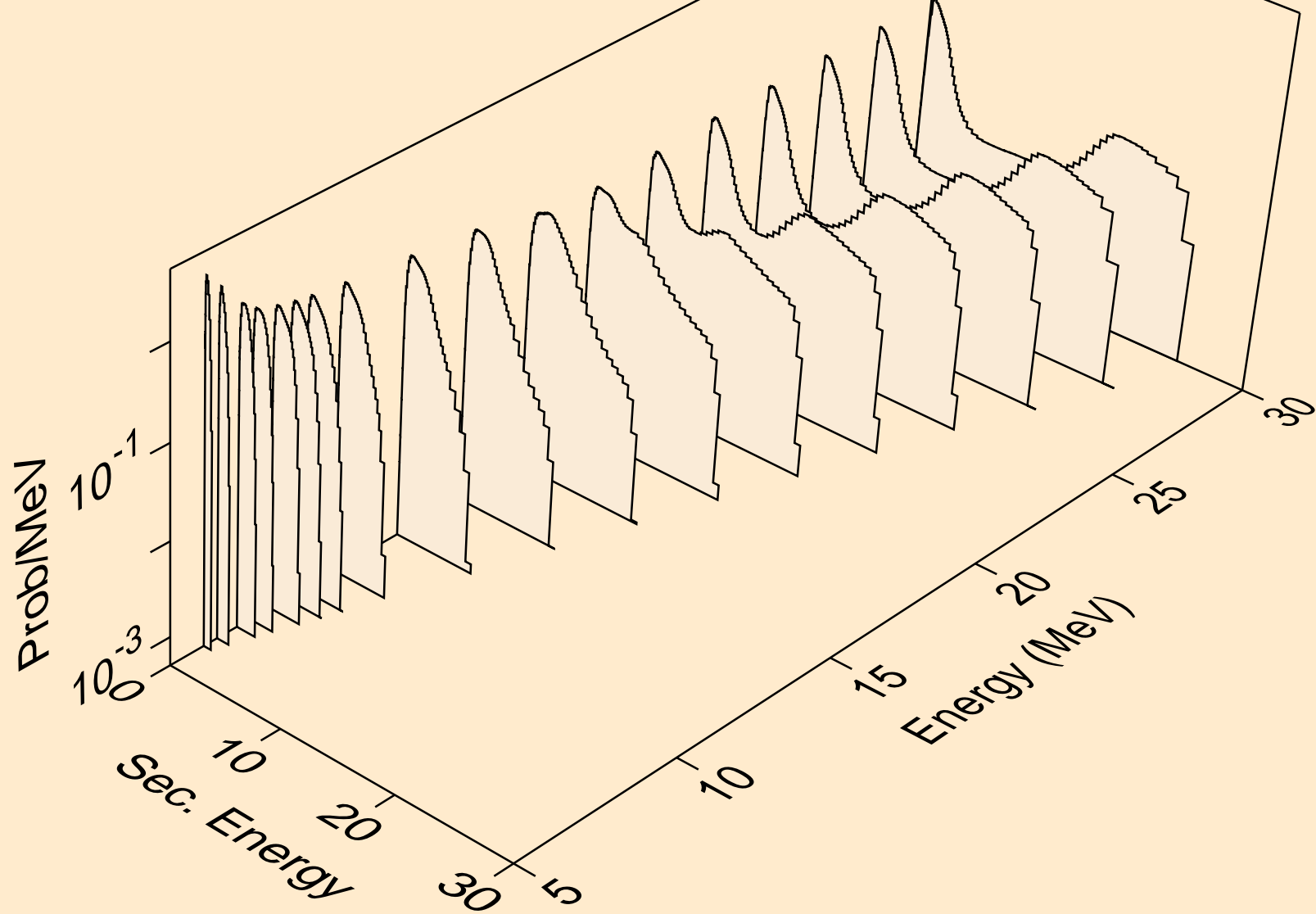
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



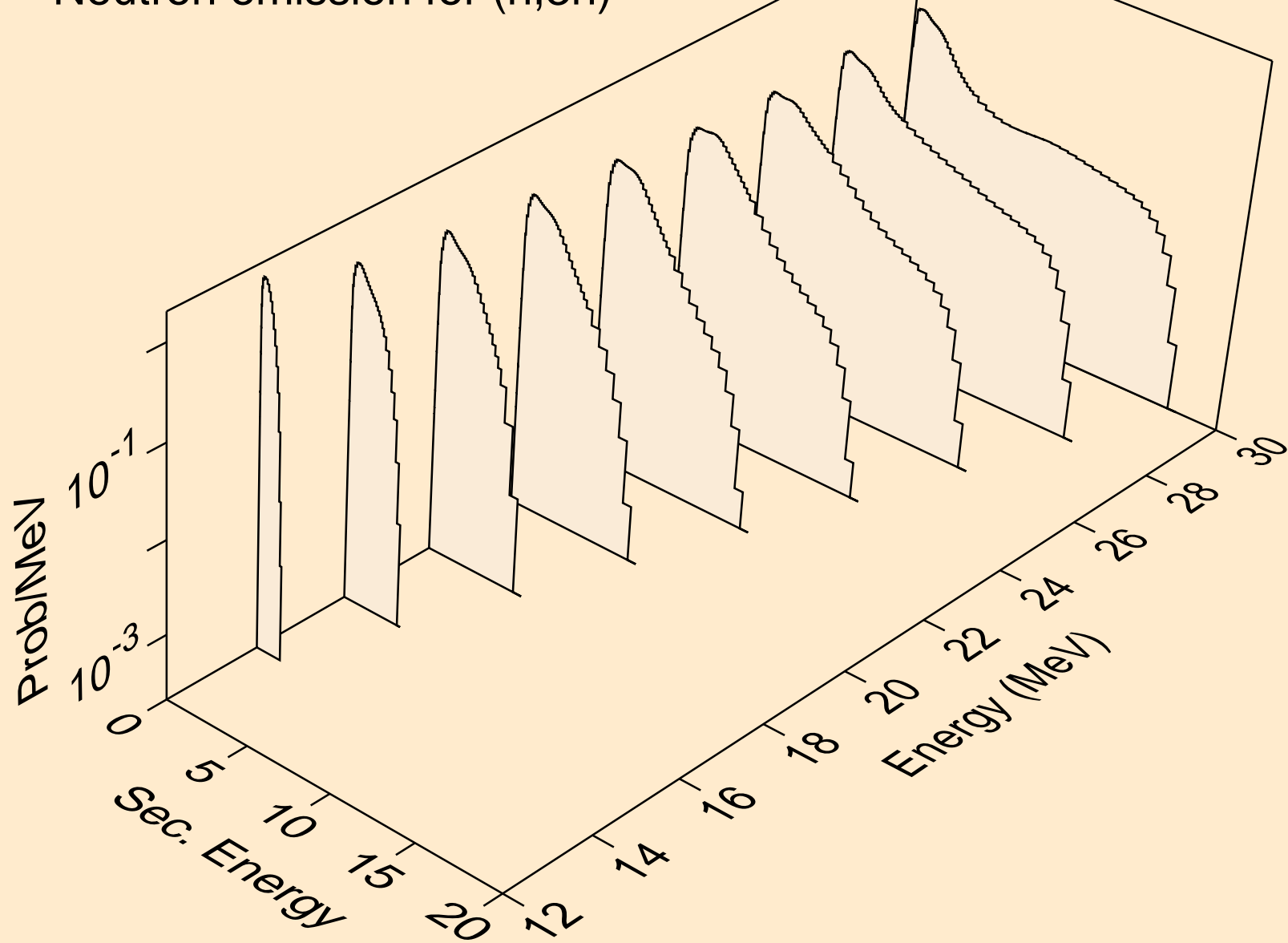
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



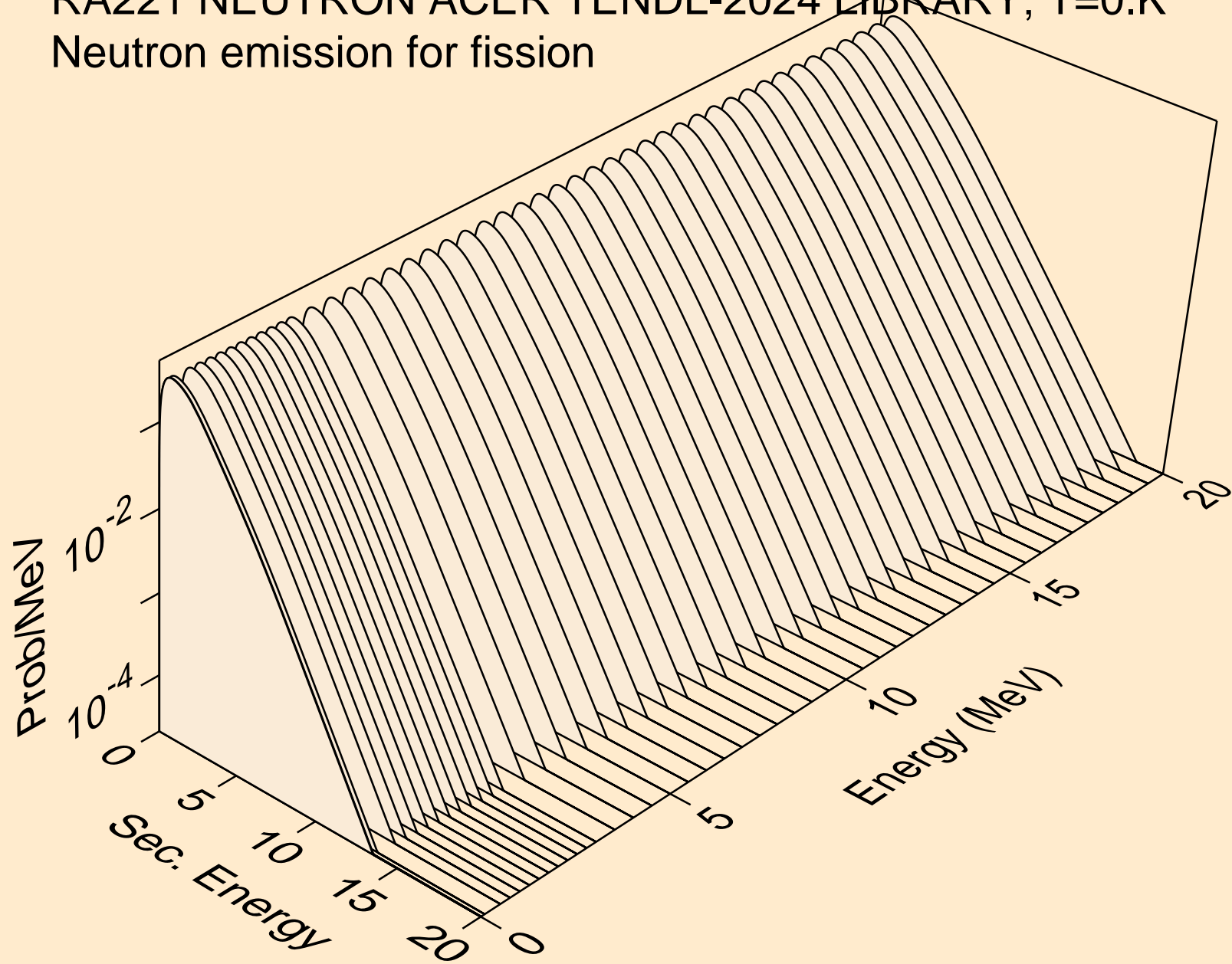
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



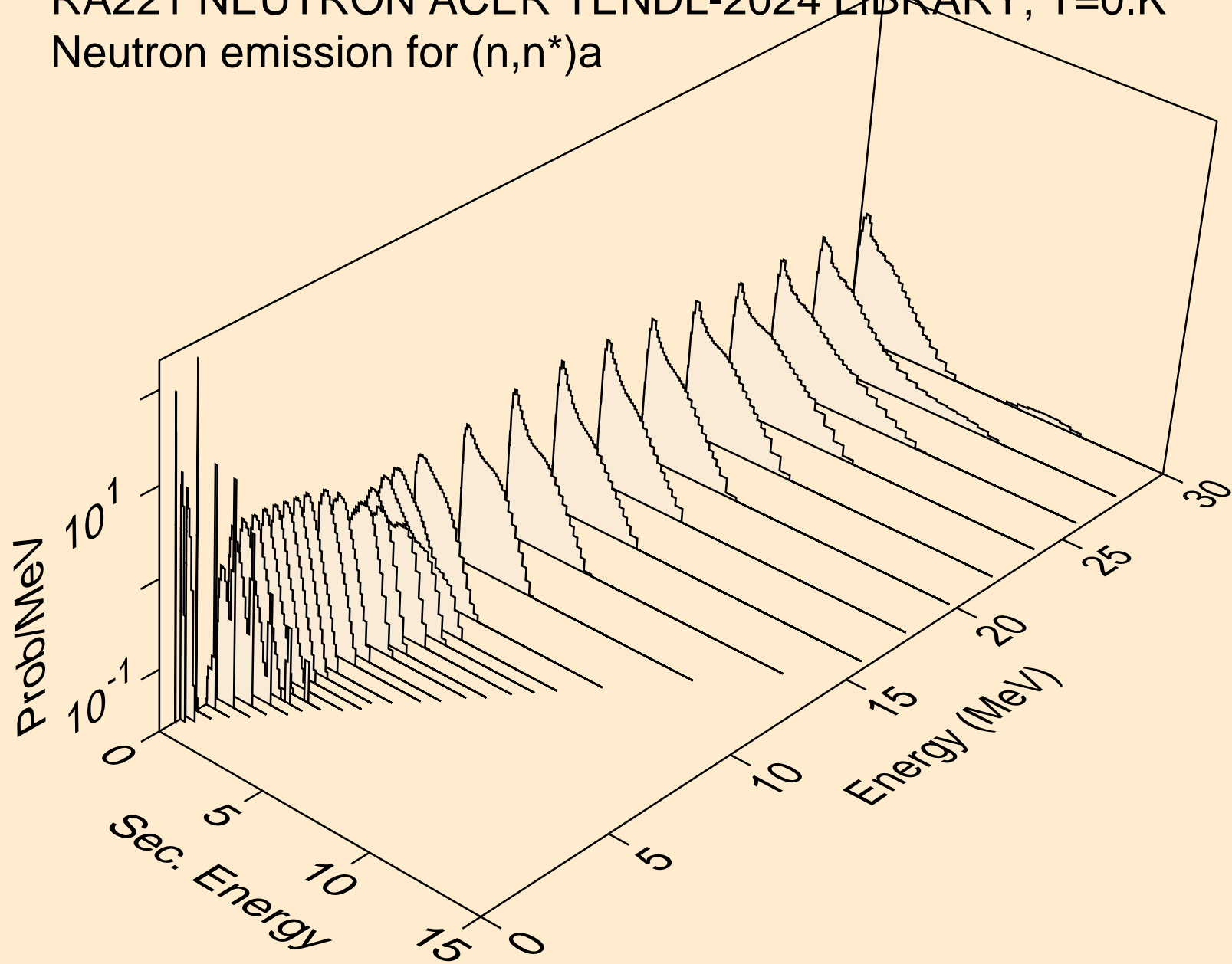
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



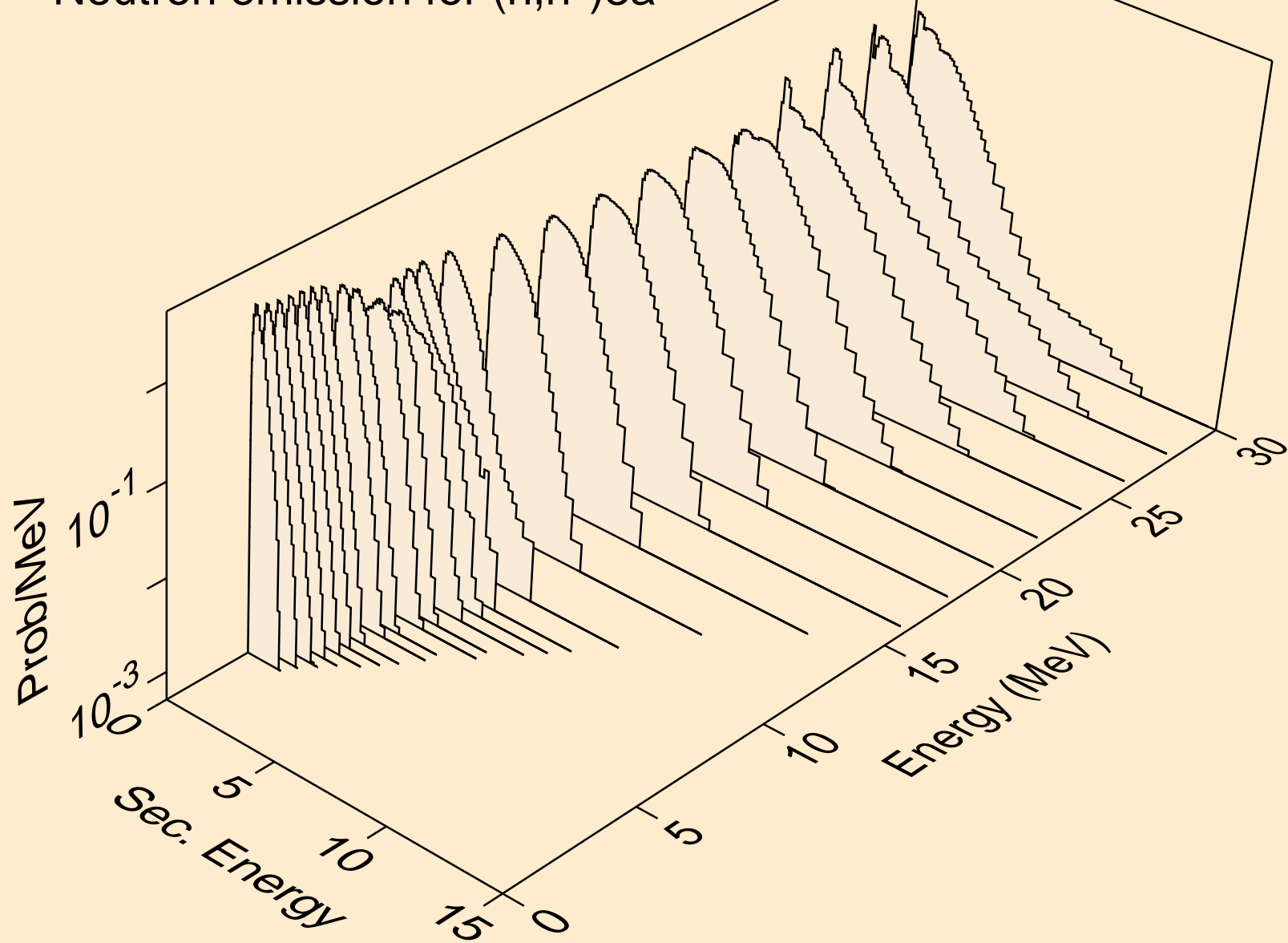
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for fission



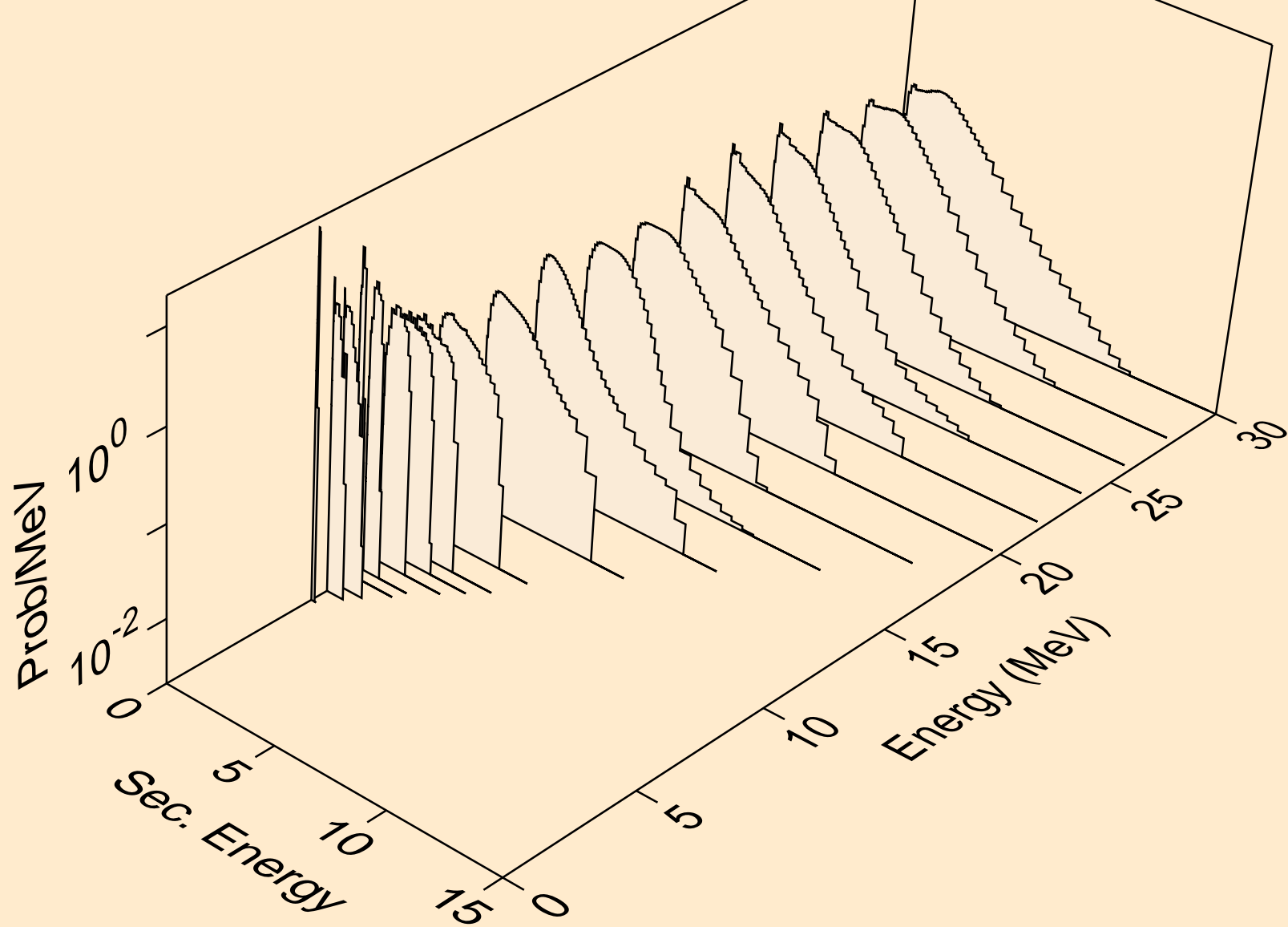
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)3a

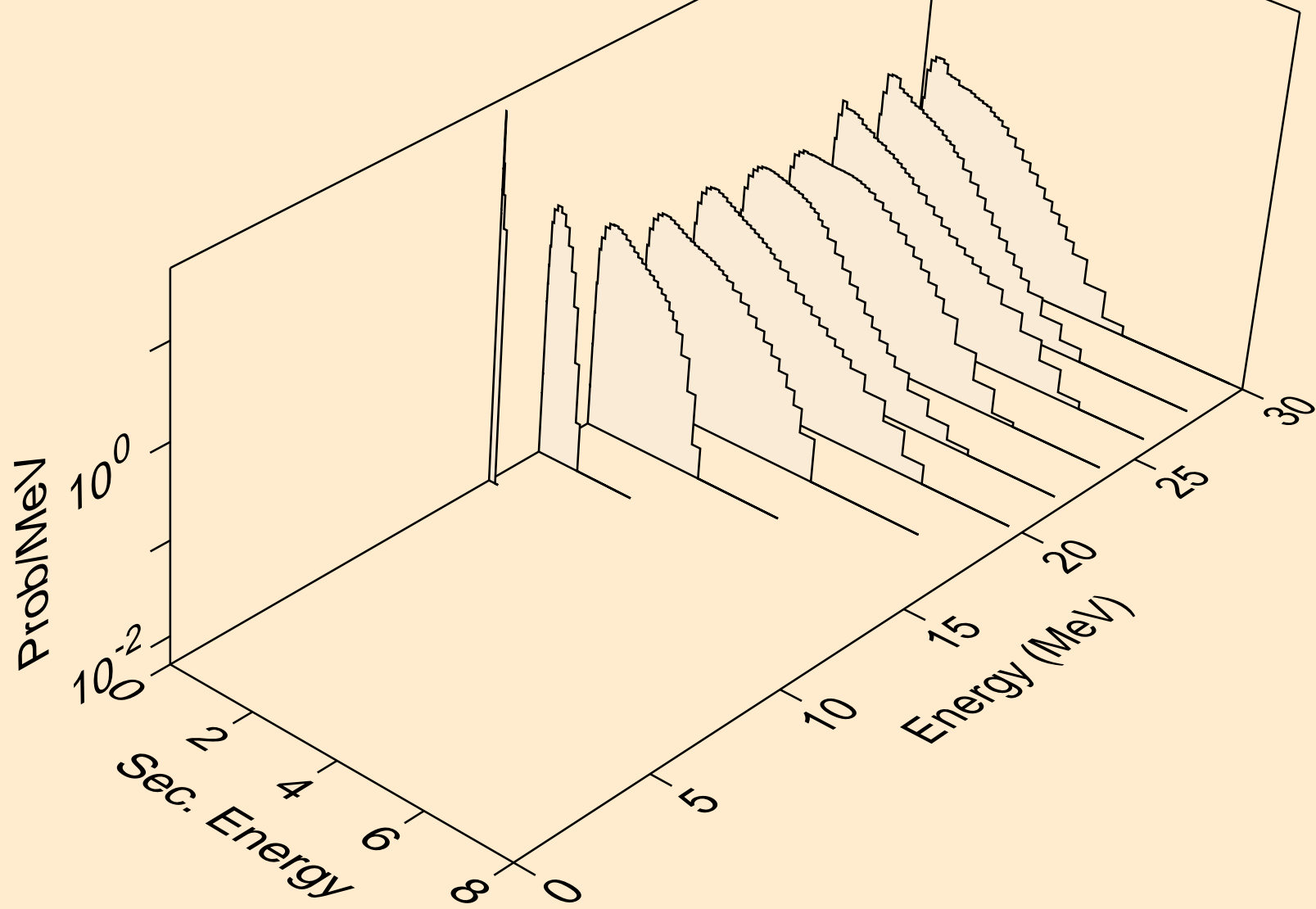


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

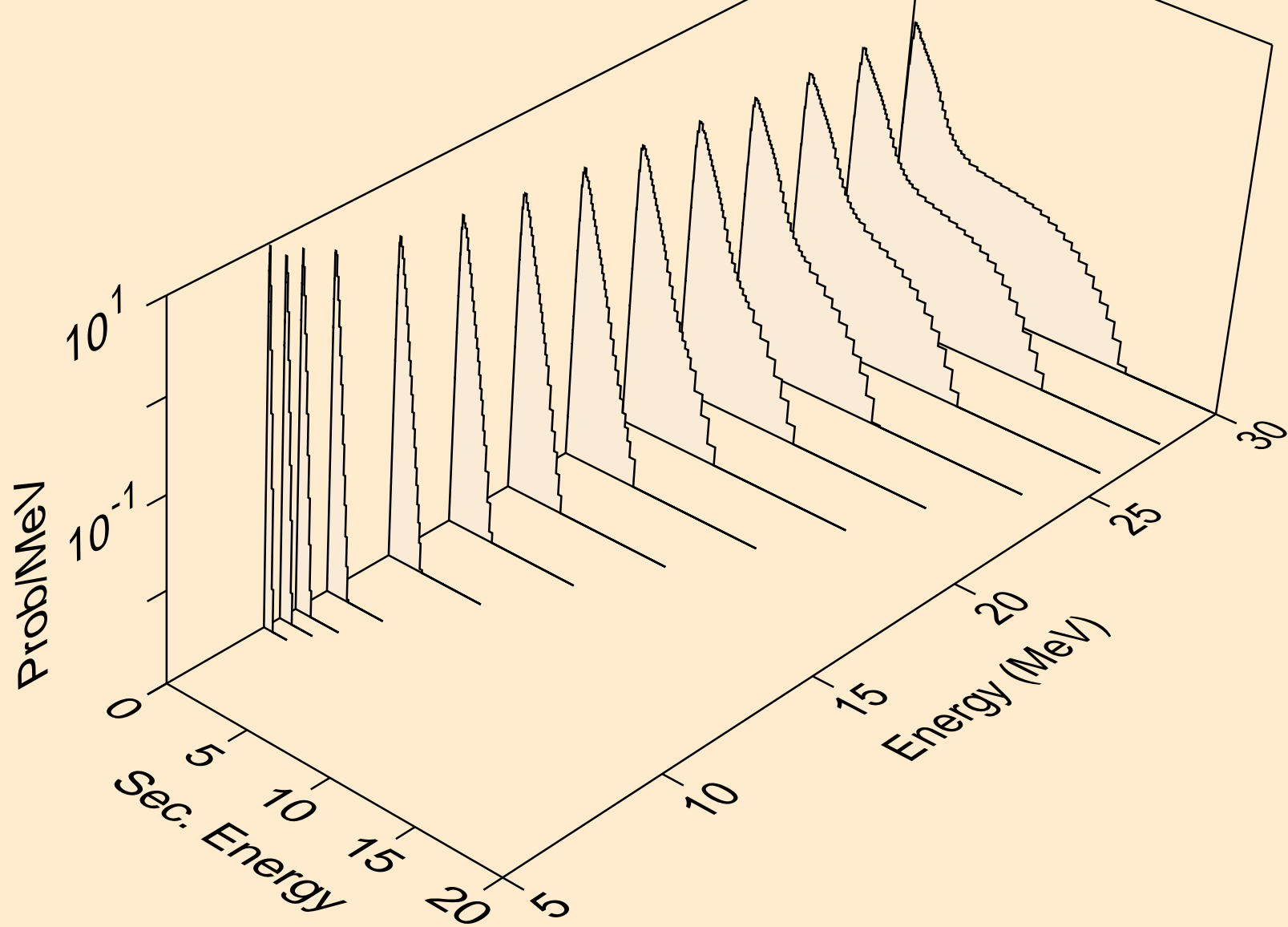




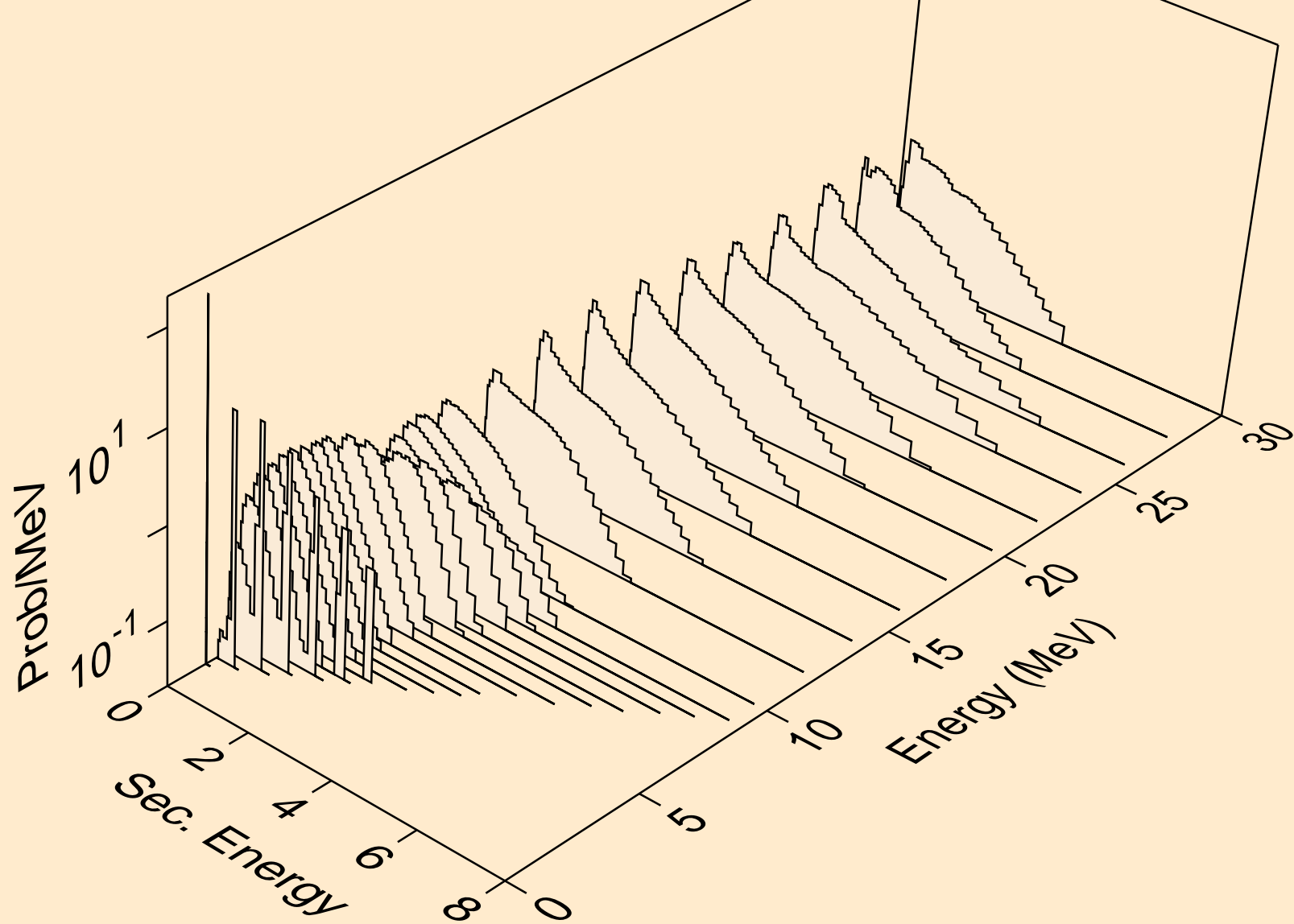
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



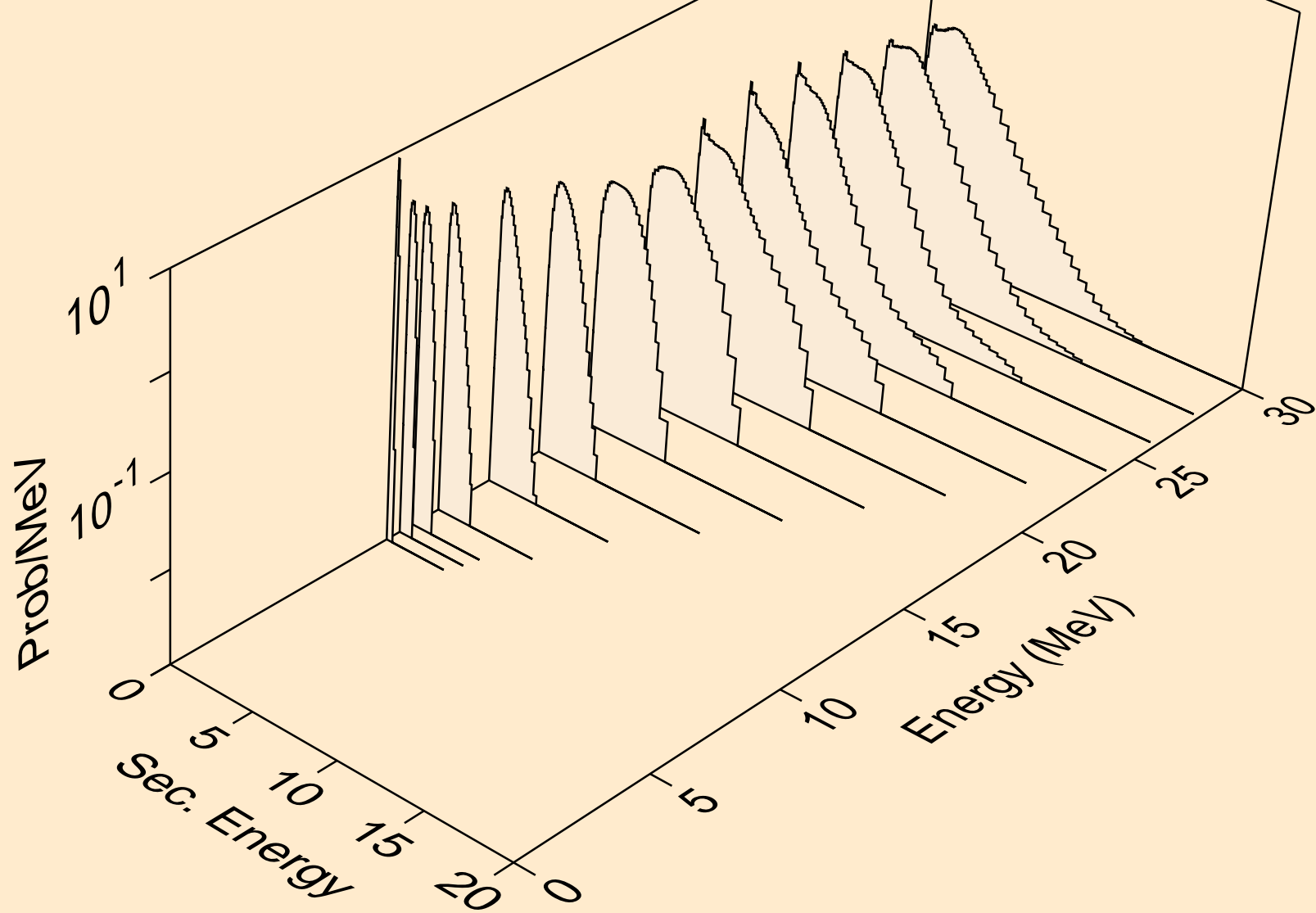
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



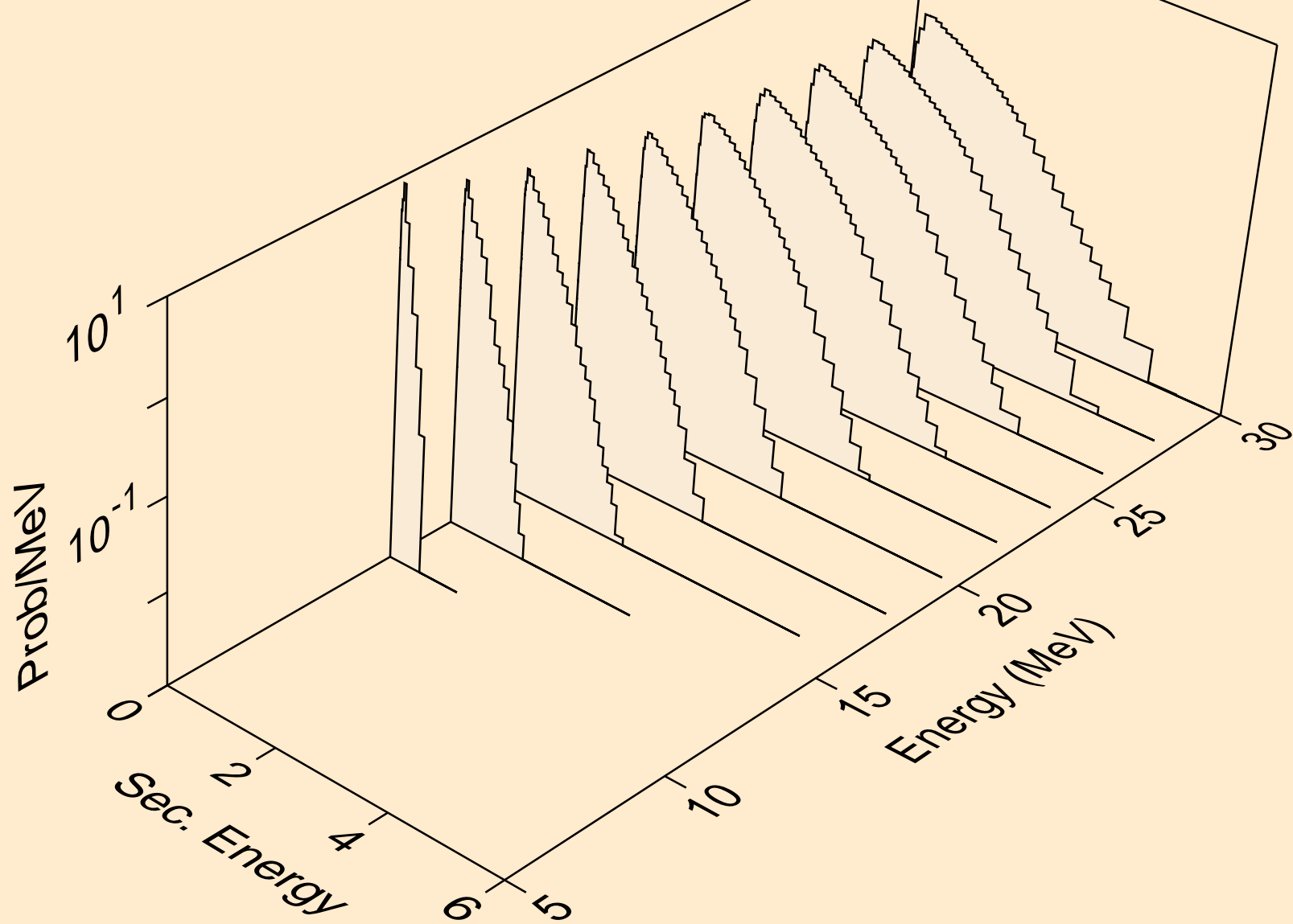
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



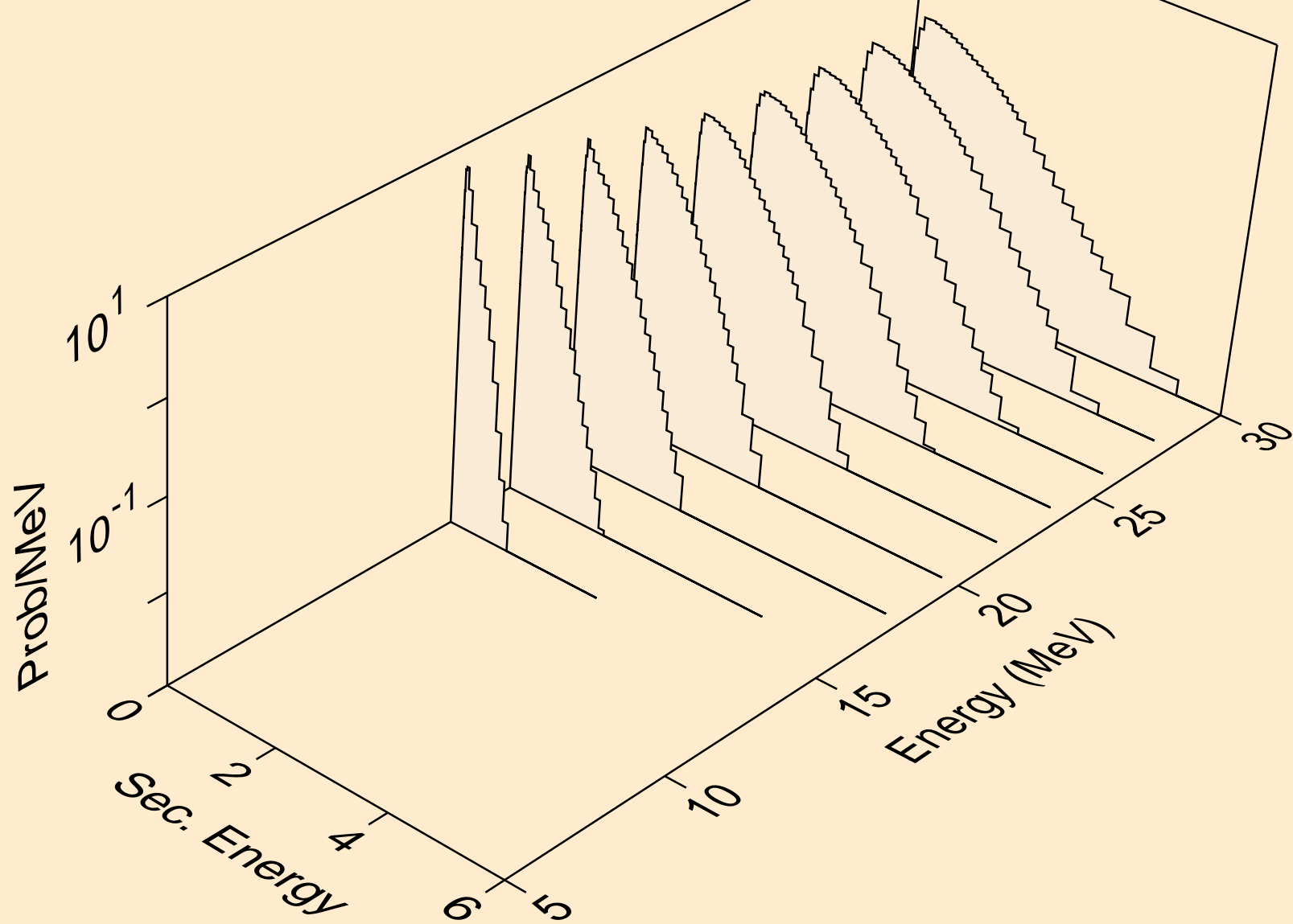
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



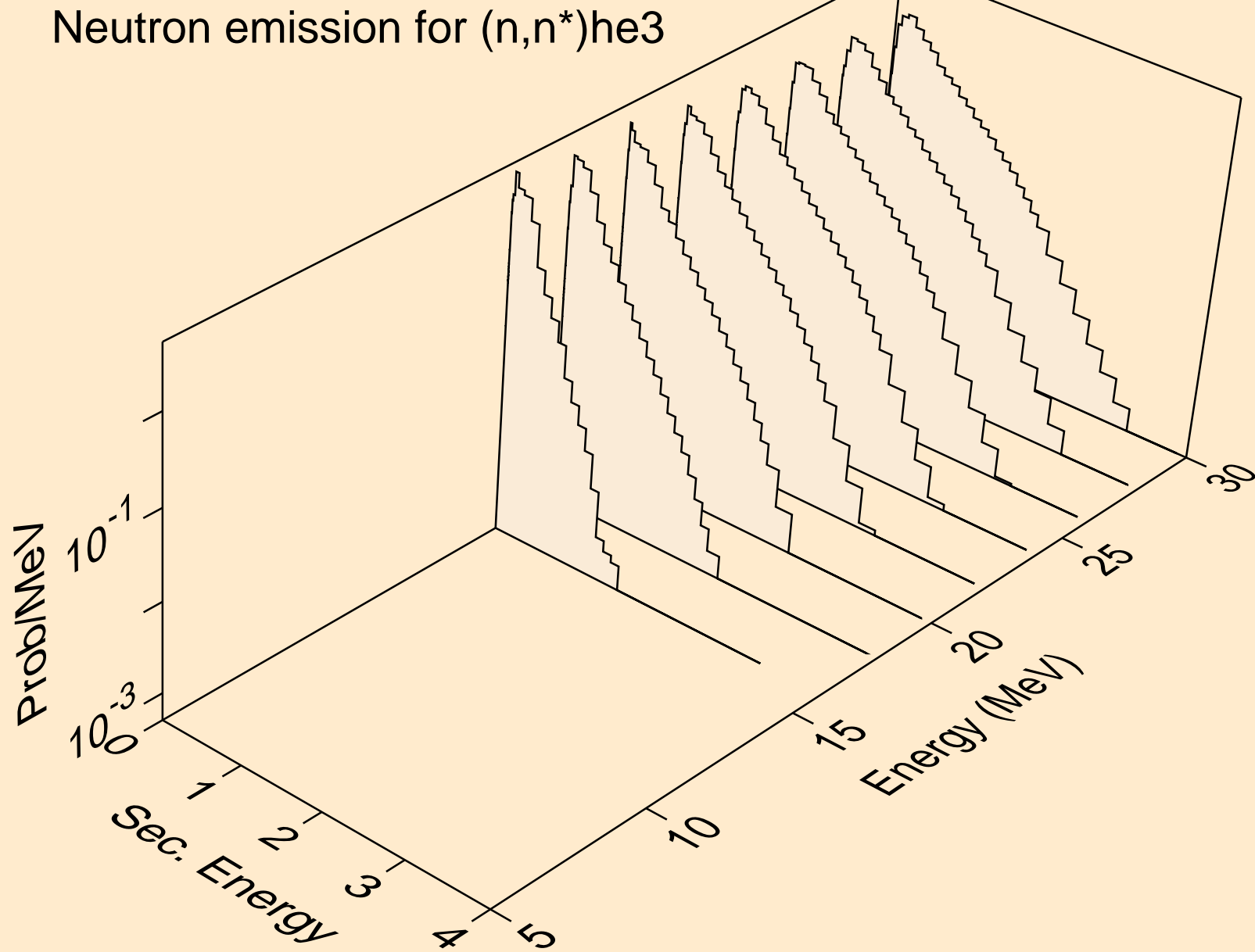
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



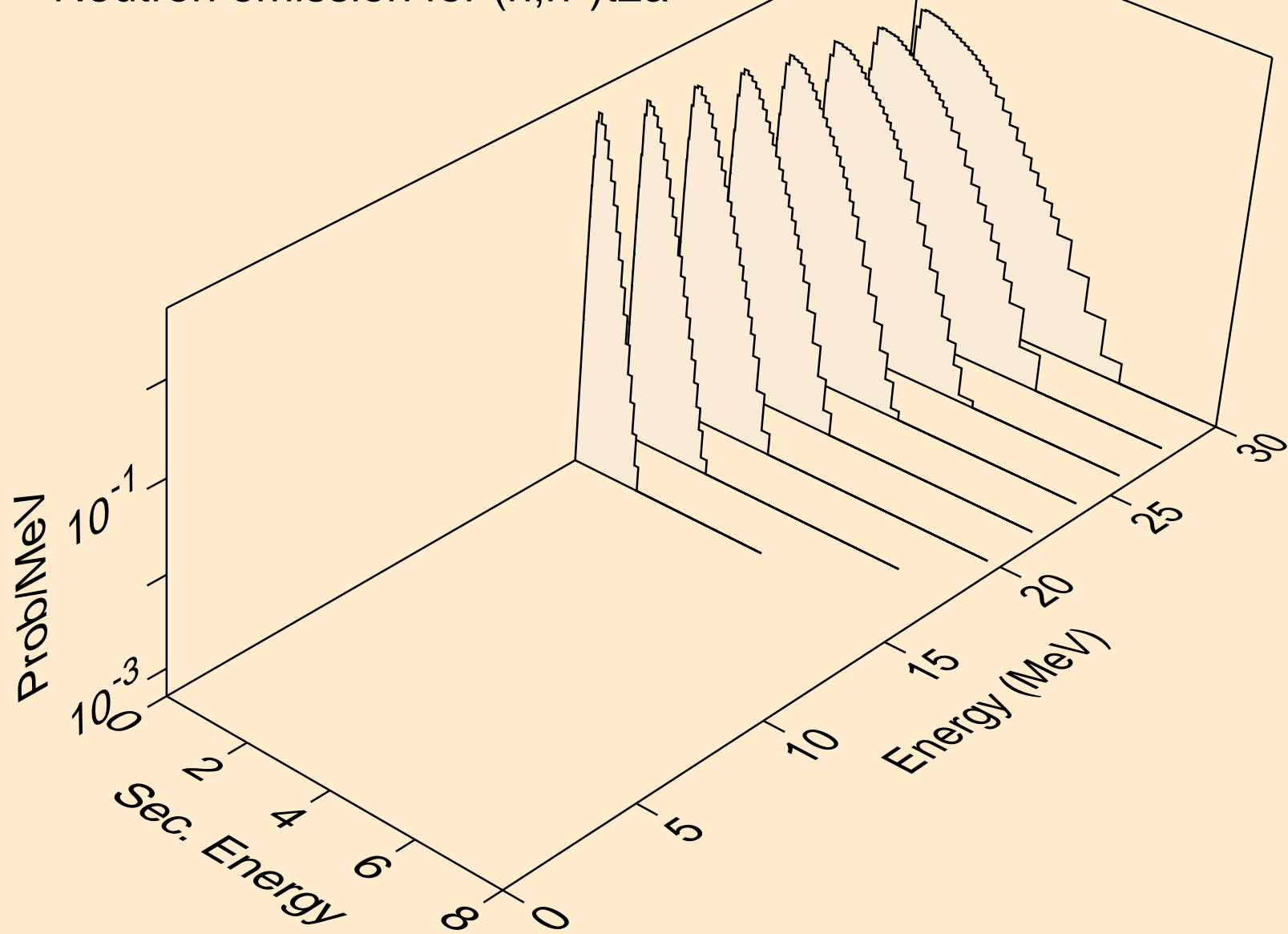
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

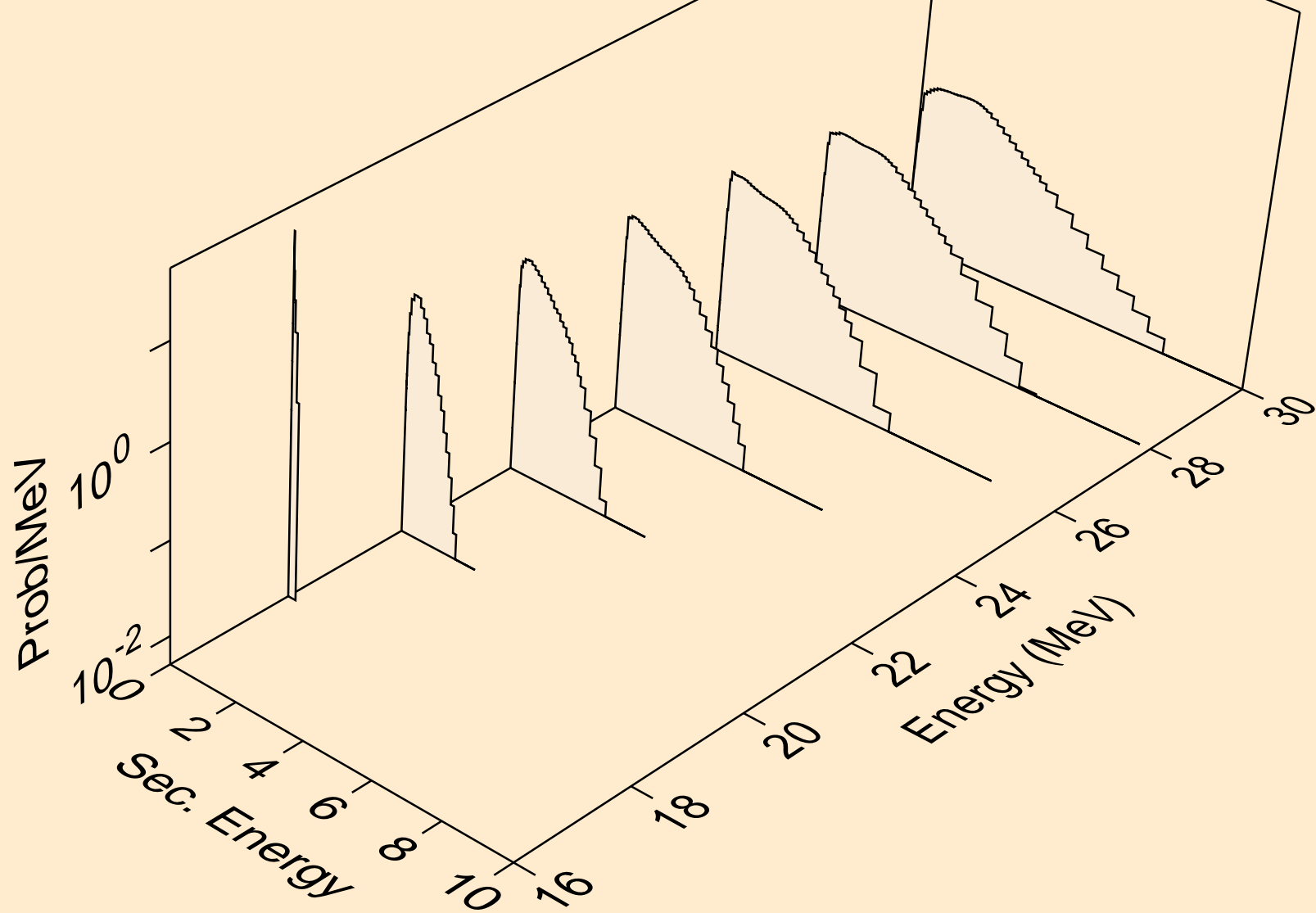


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t2a

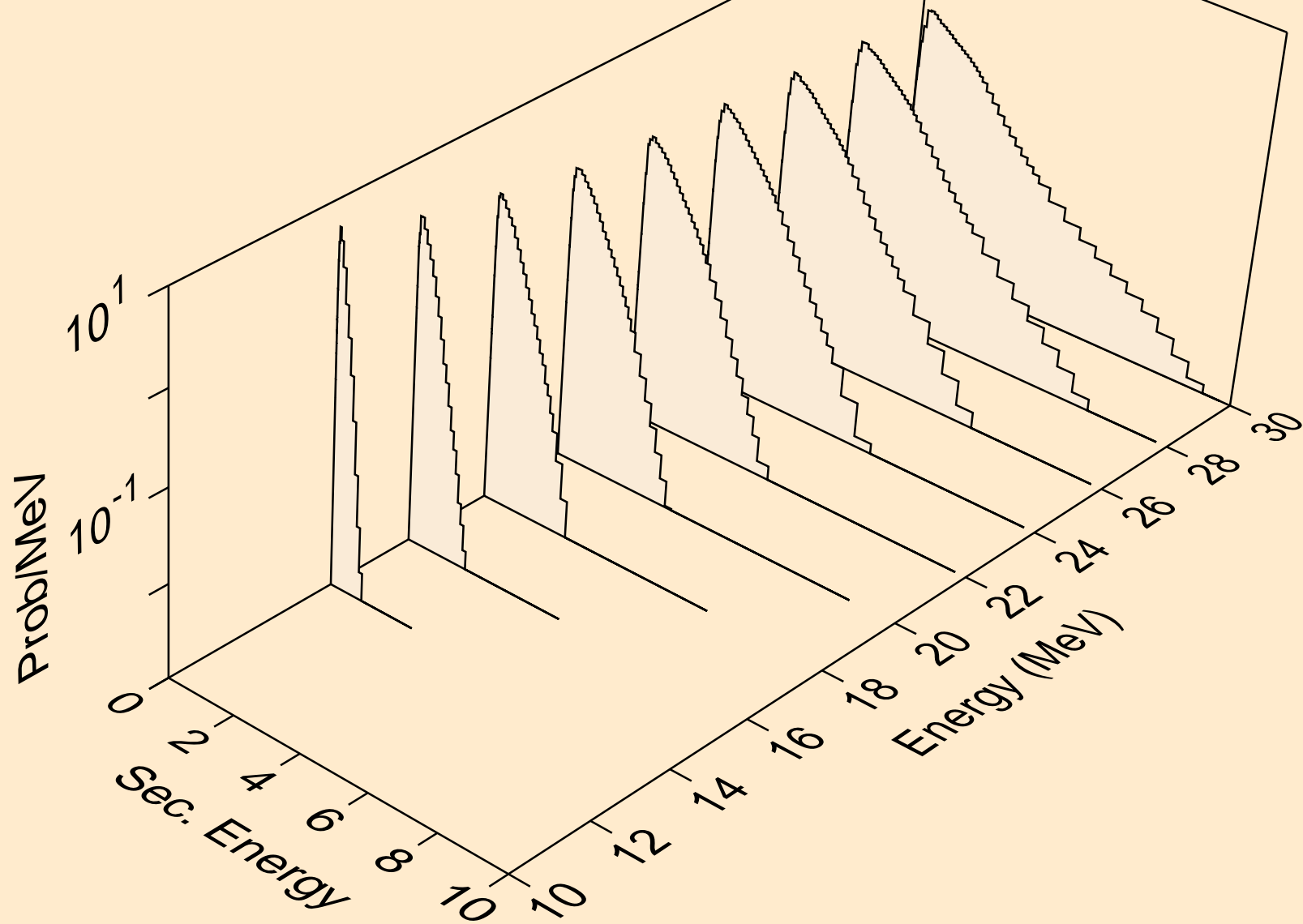




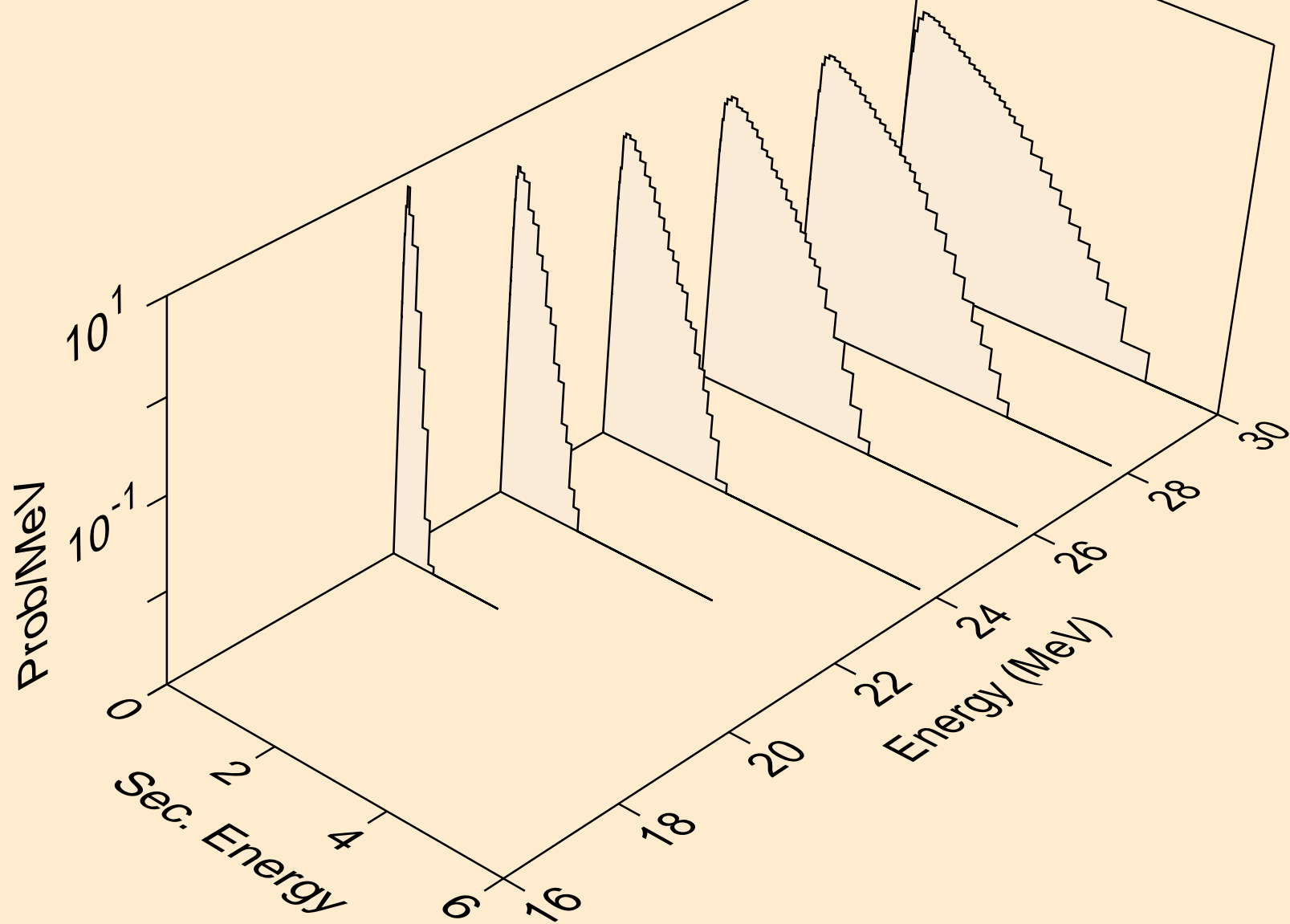
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



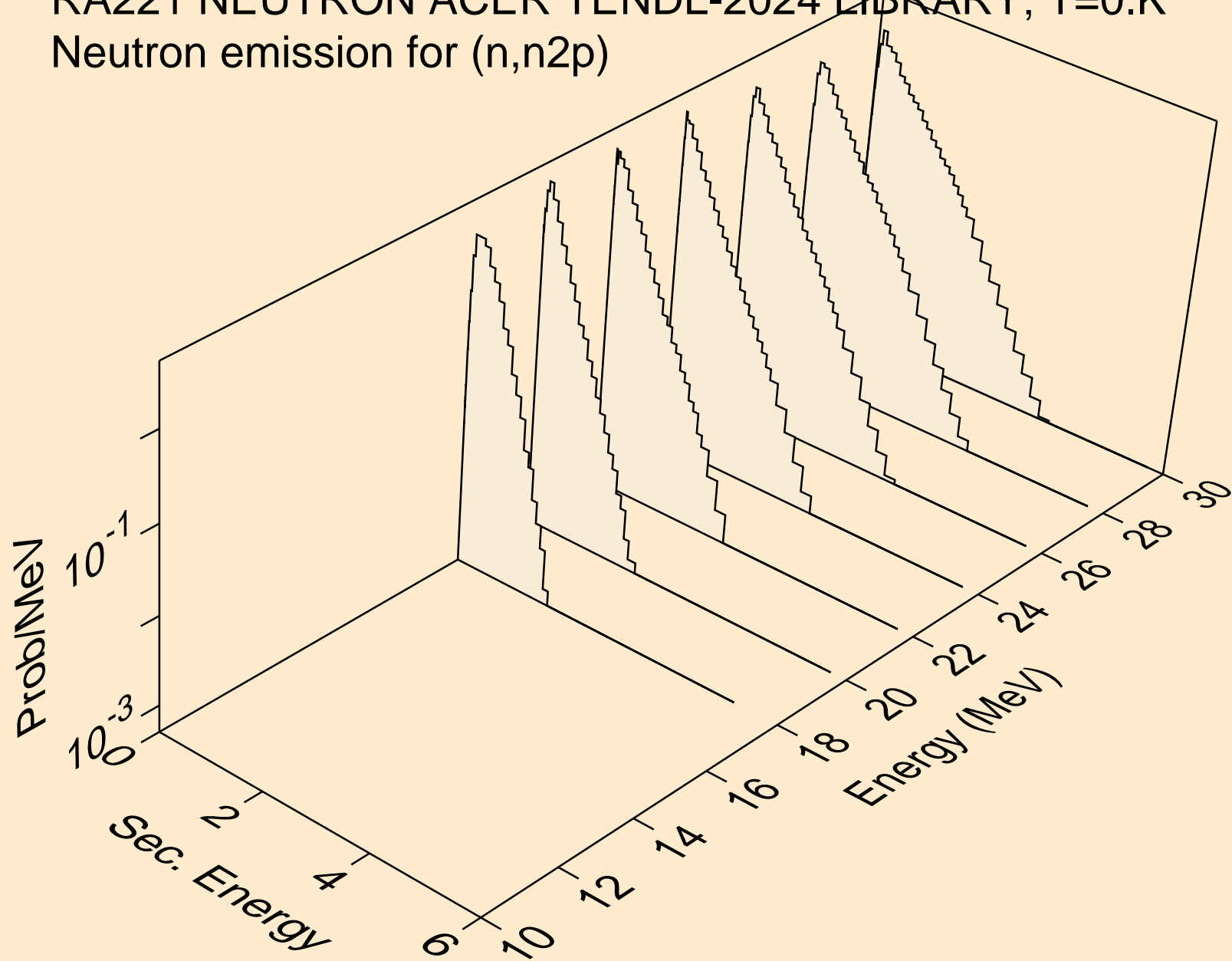
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



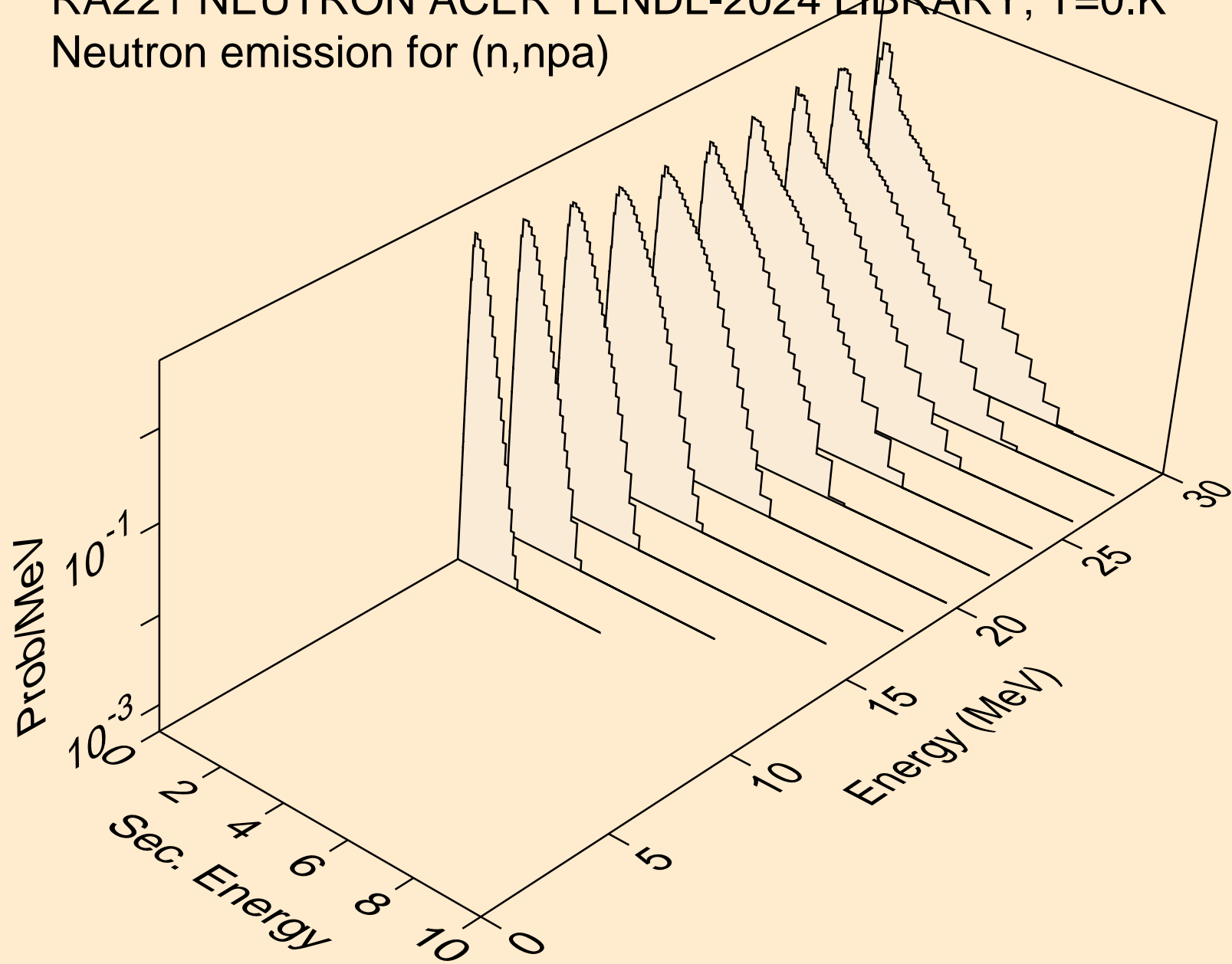
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



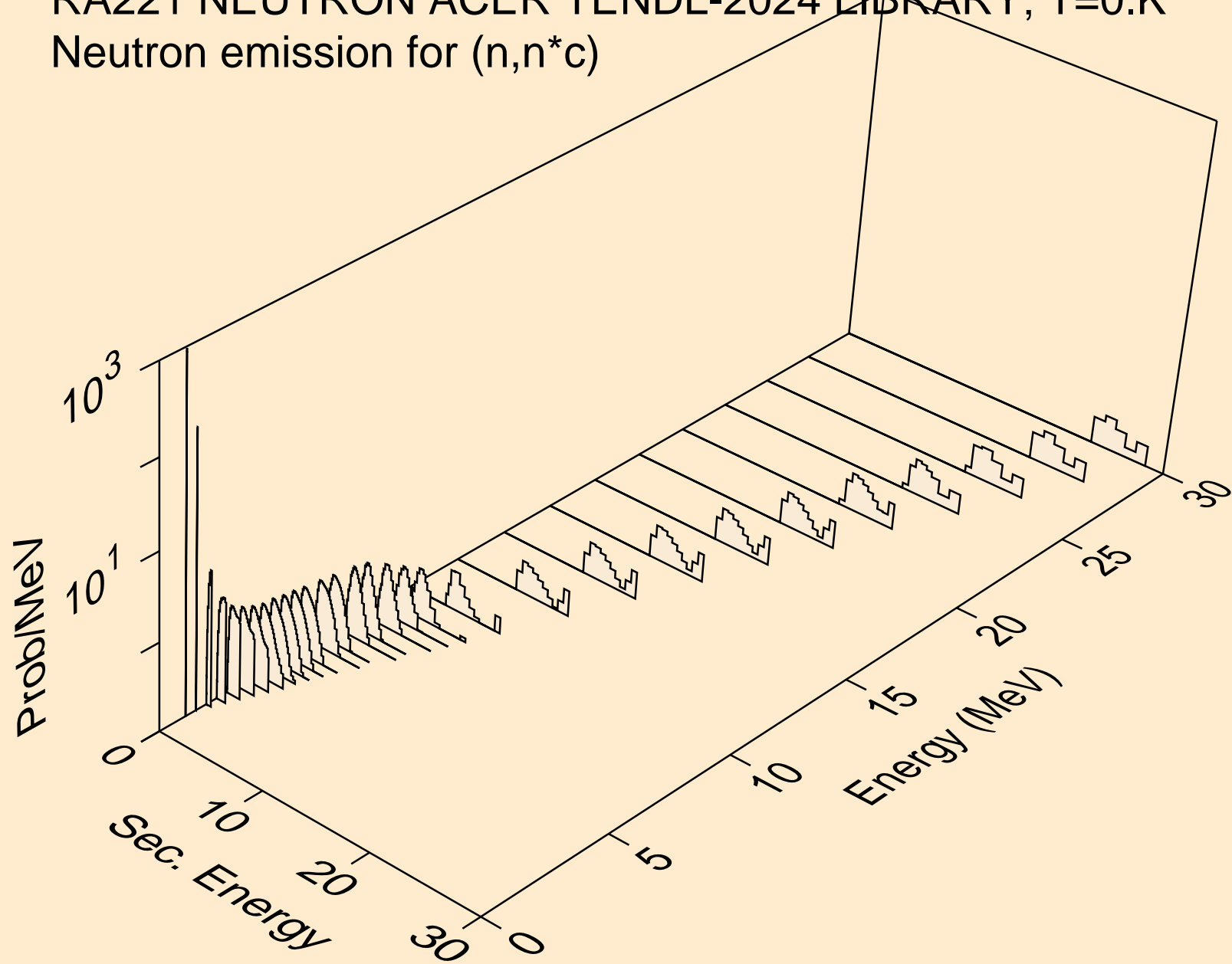
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)

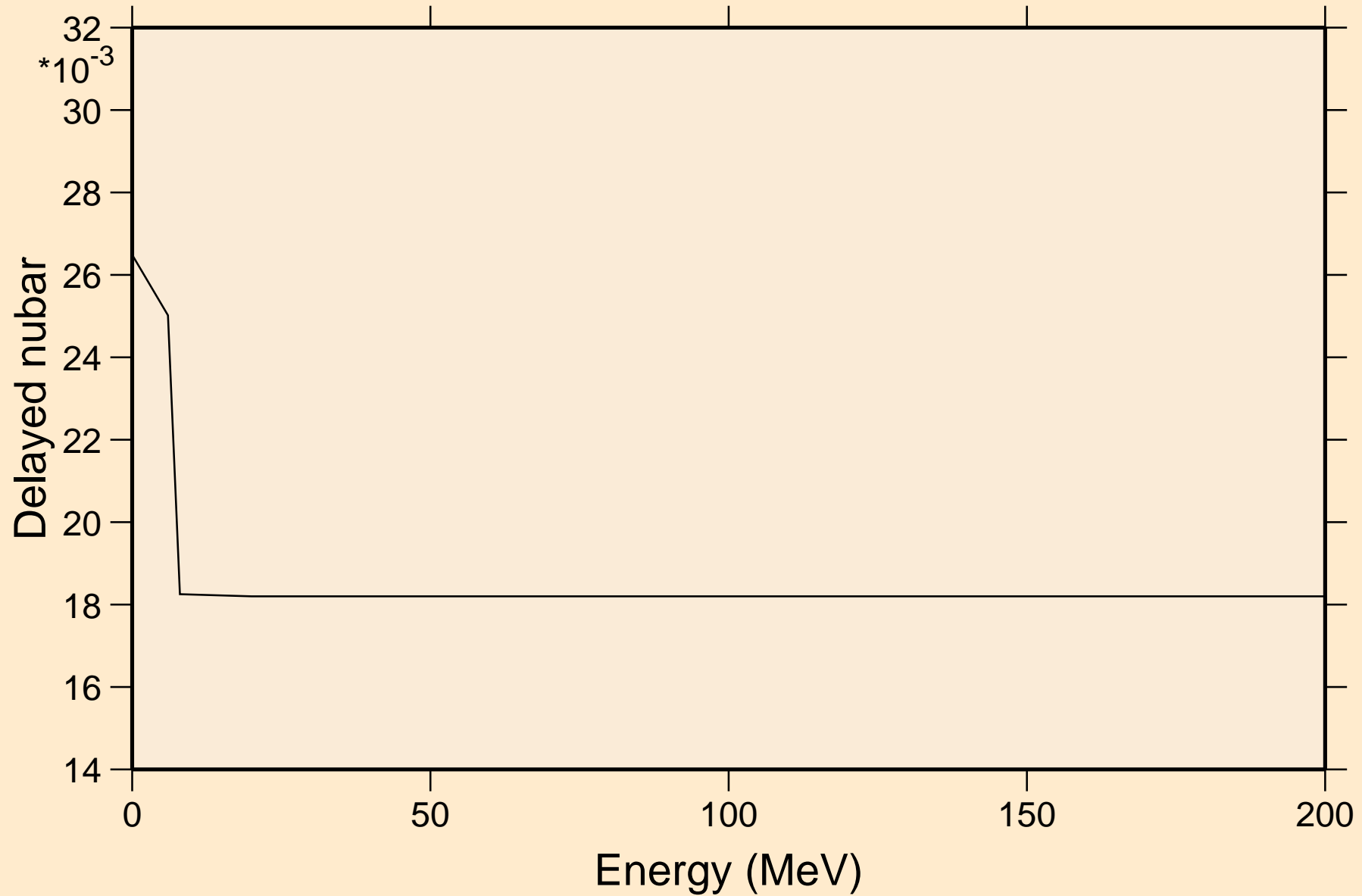


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



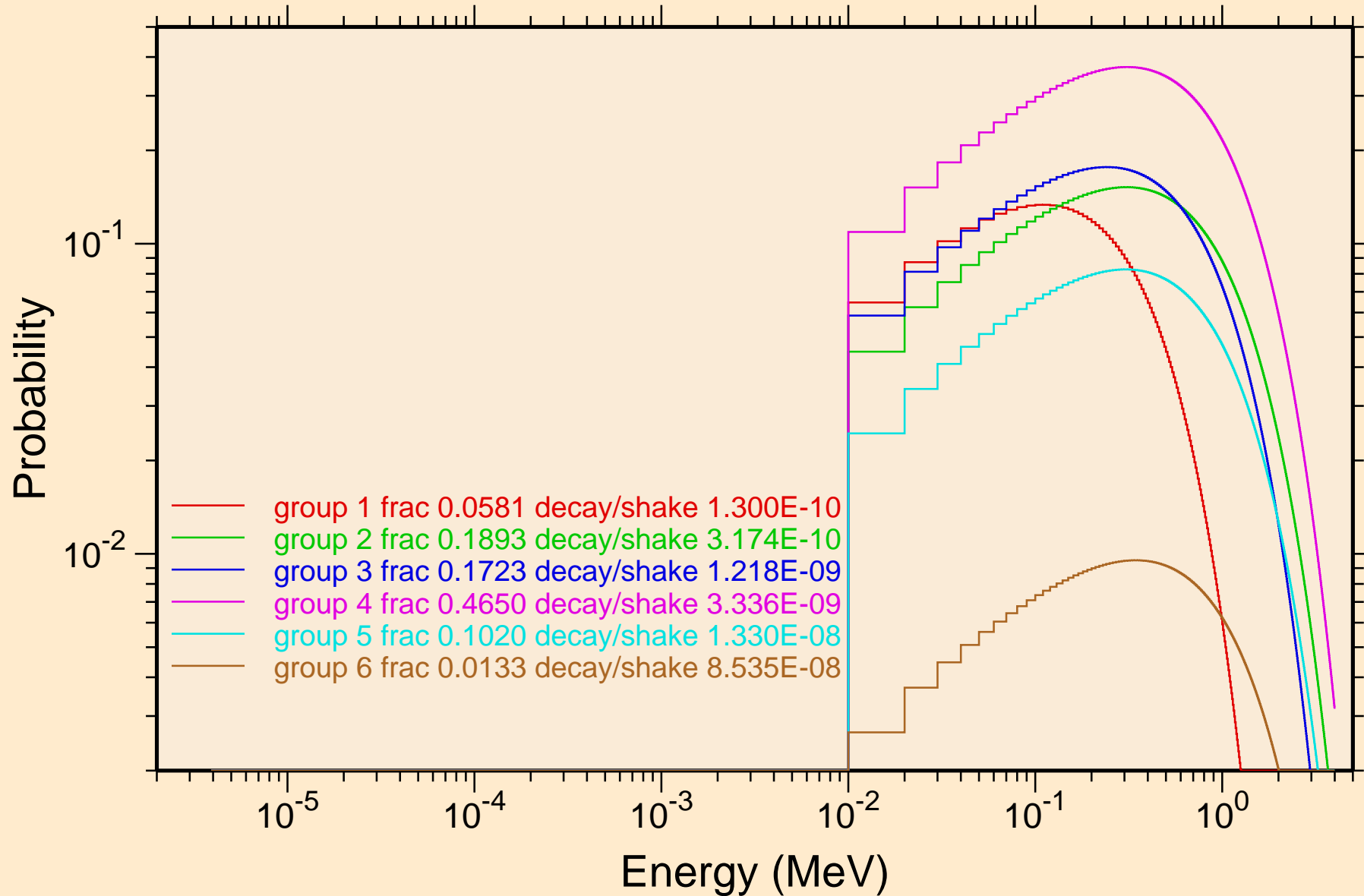
# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

Delayed nubar



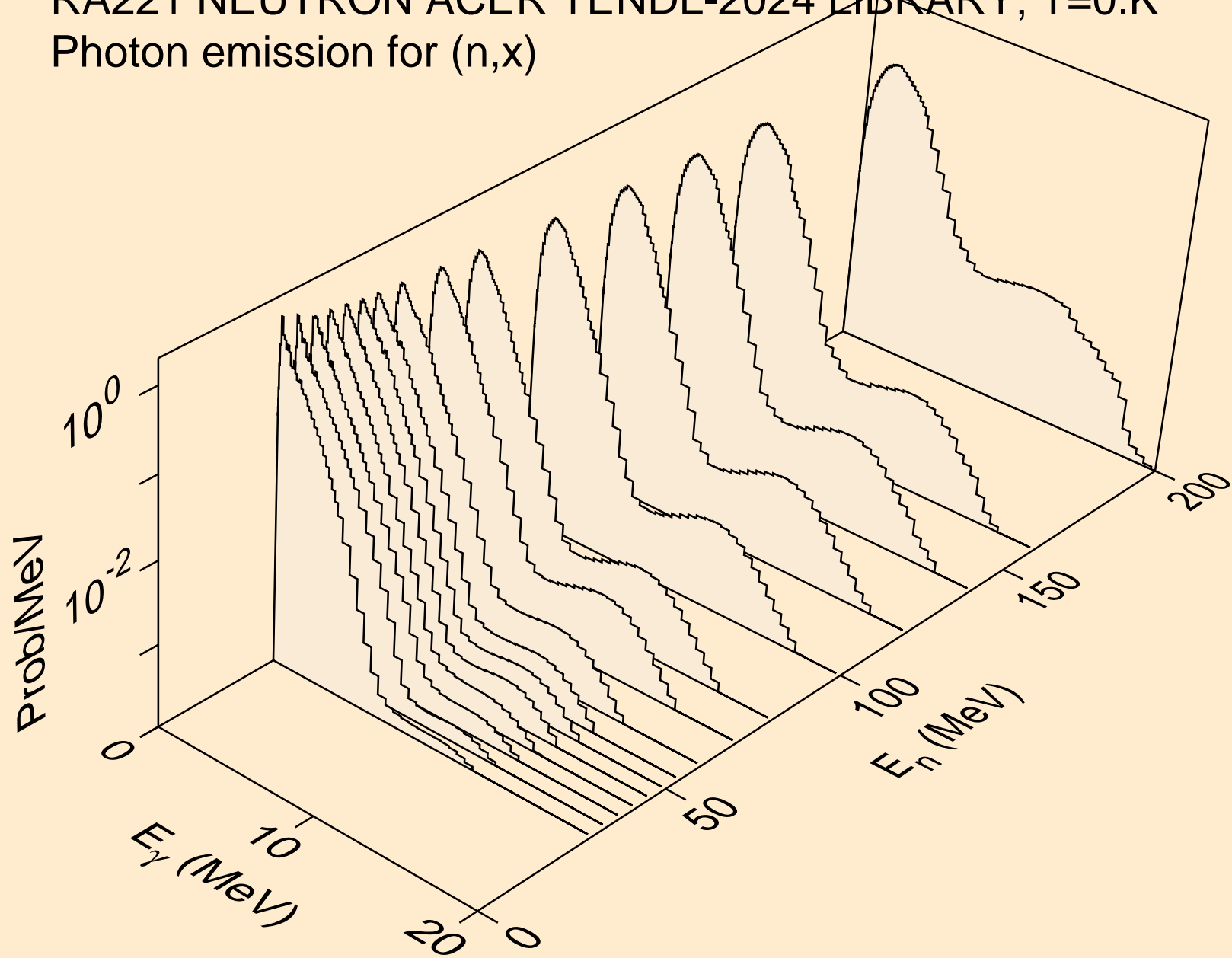
# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Delayed neutron spectra

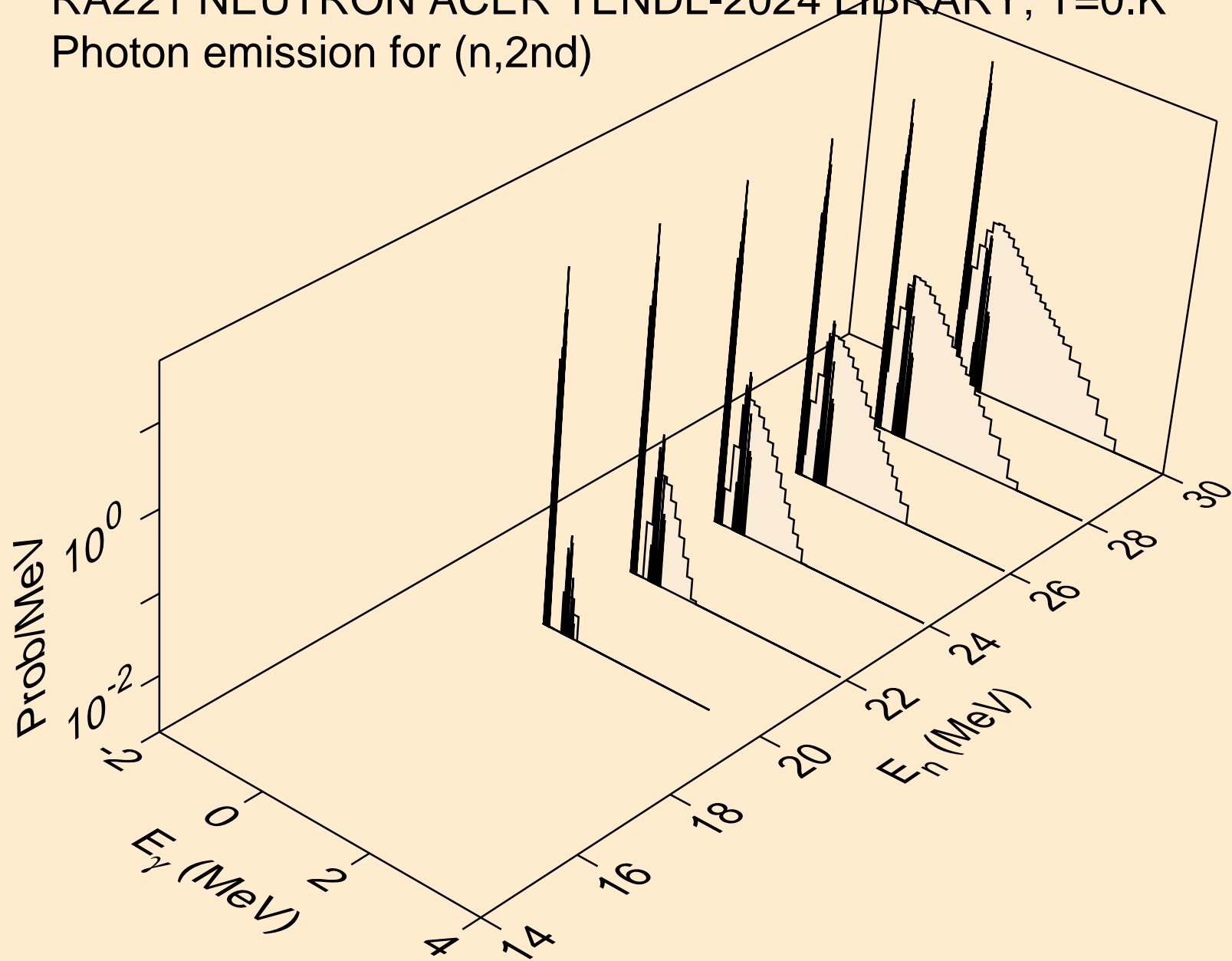




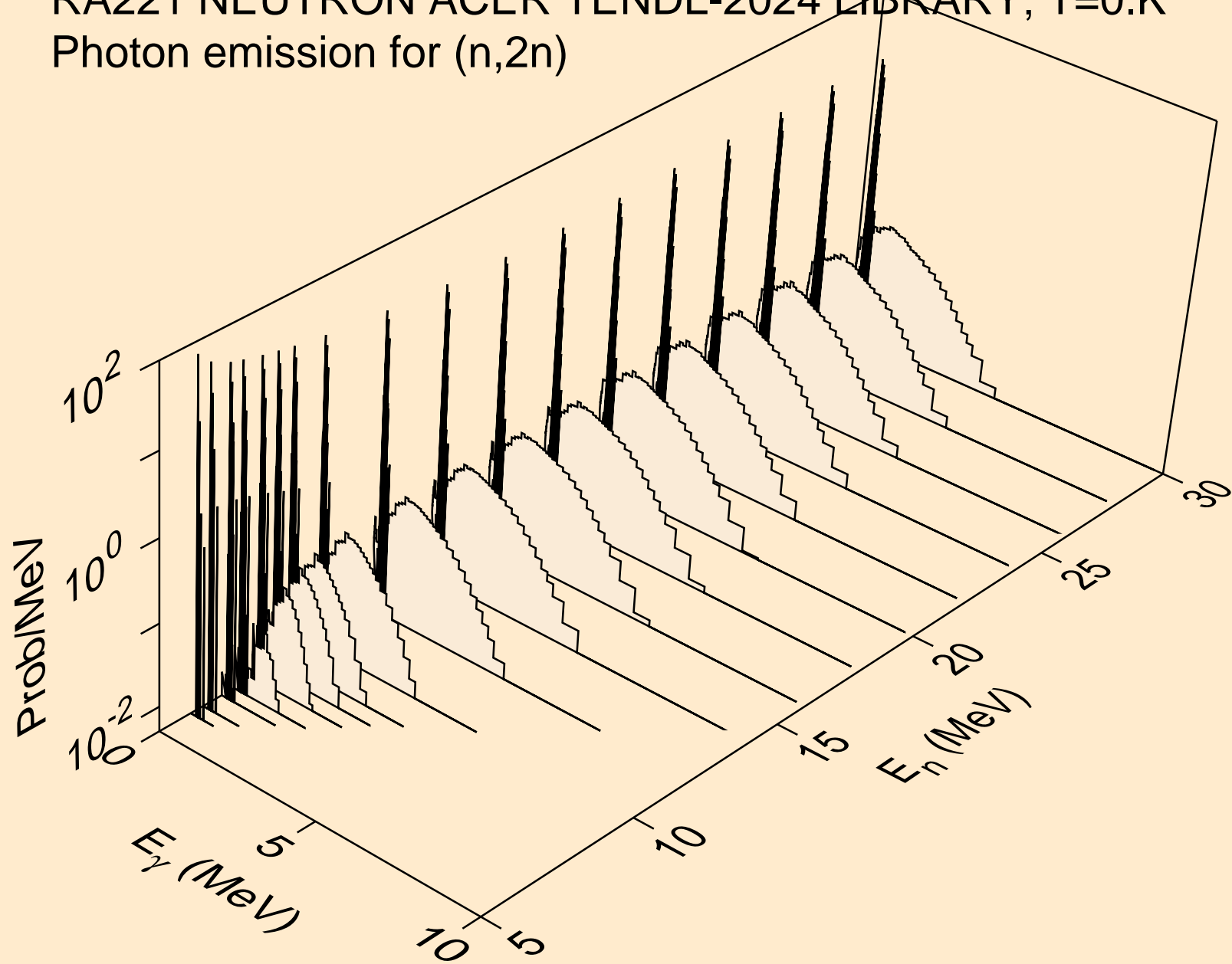
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



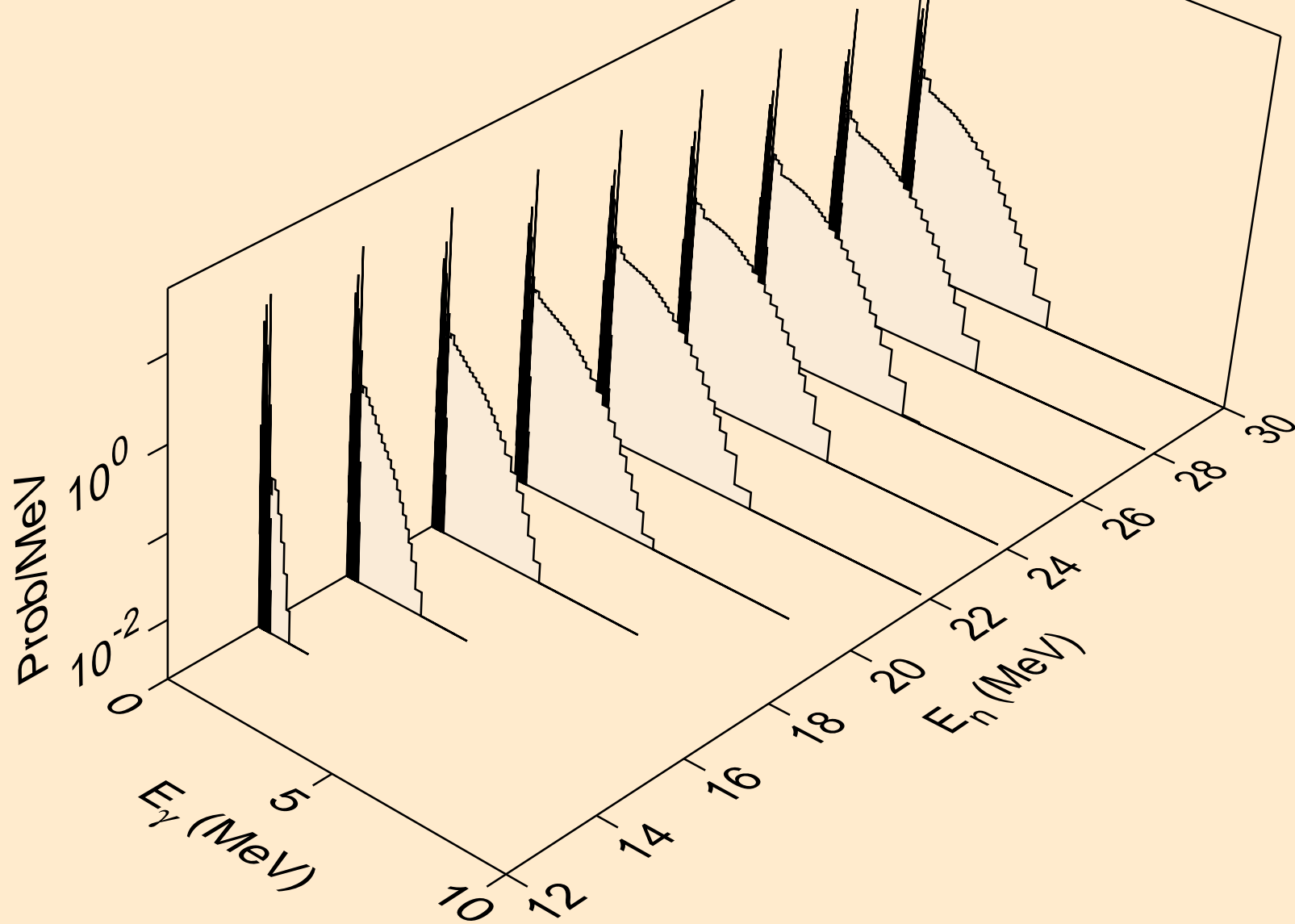
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)



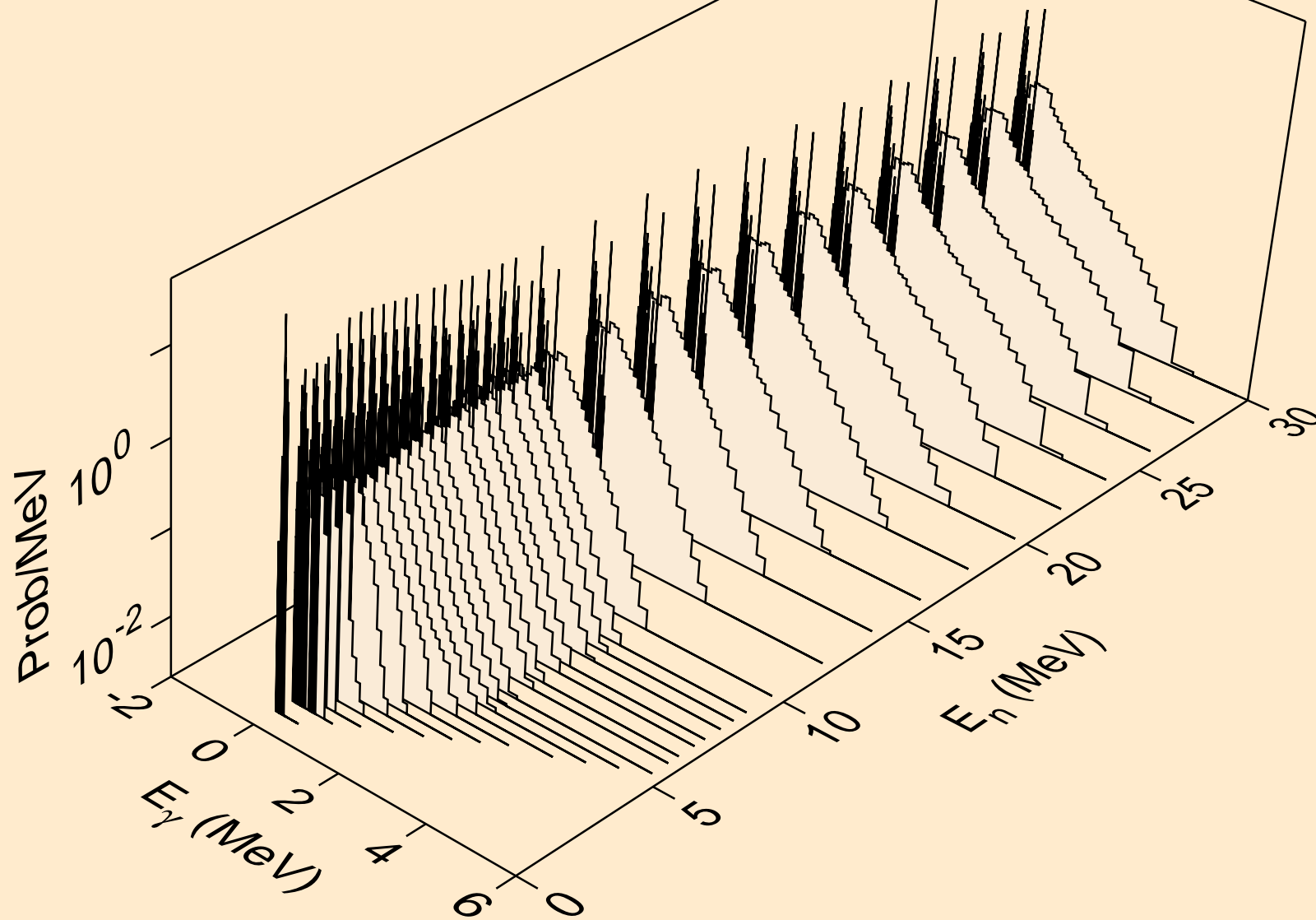
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)



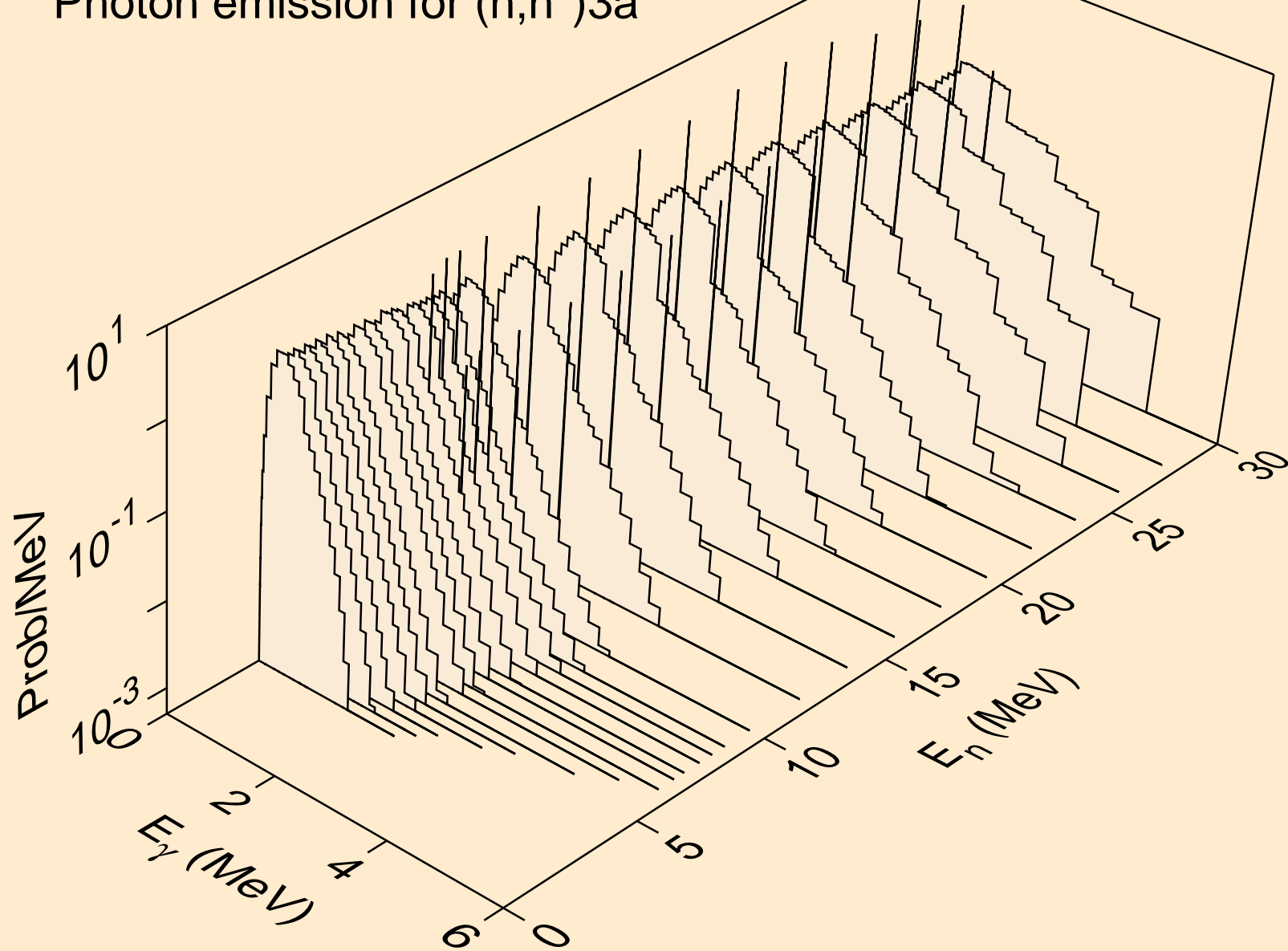
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



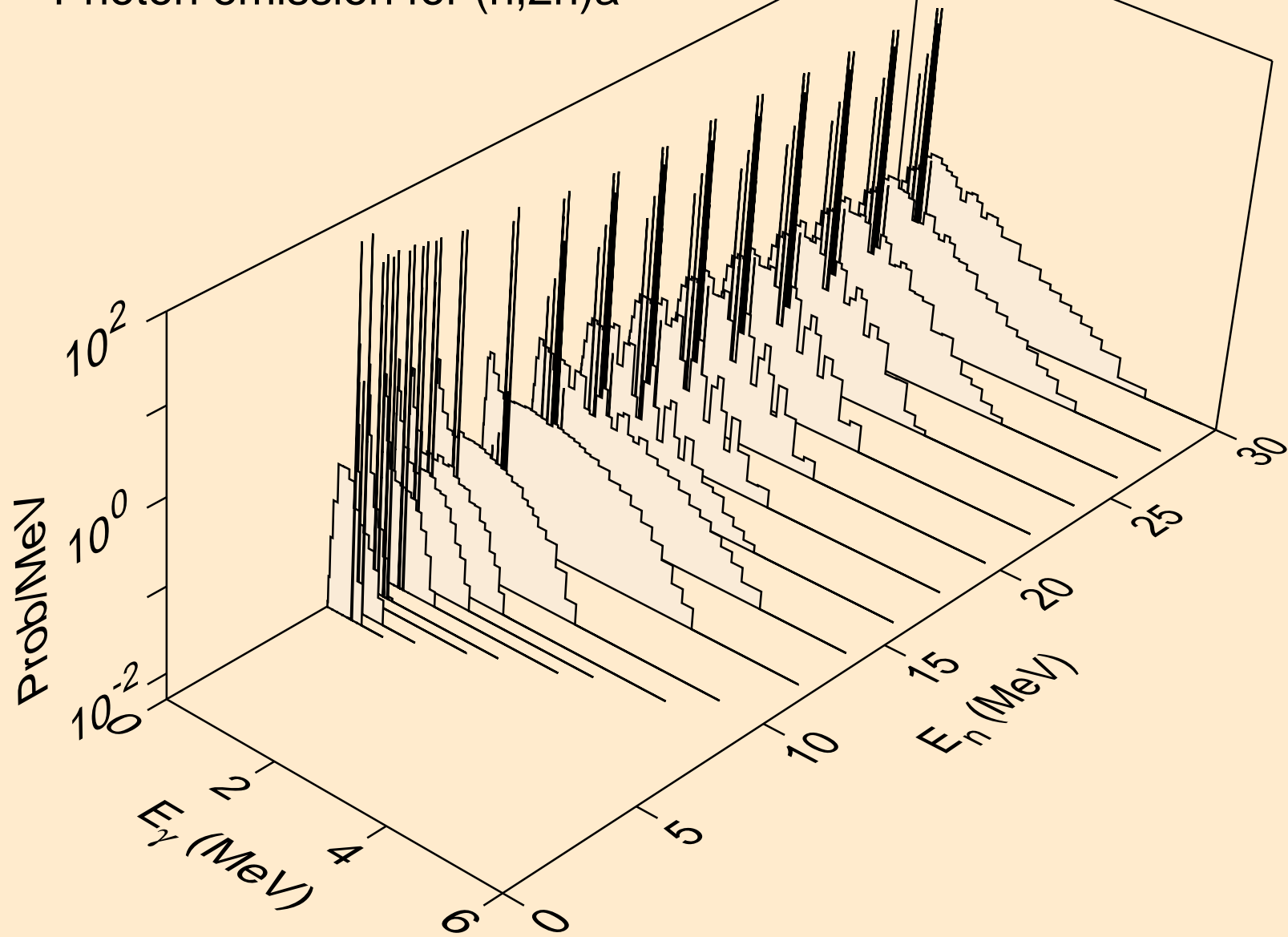
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



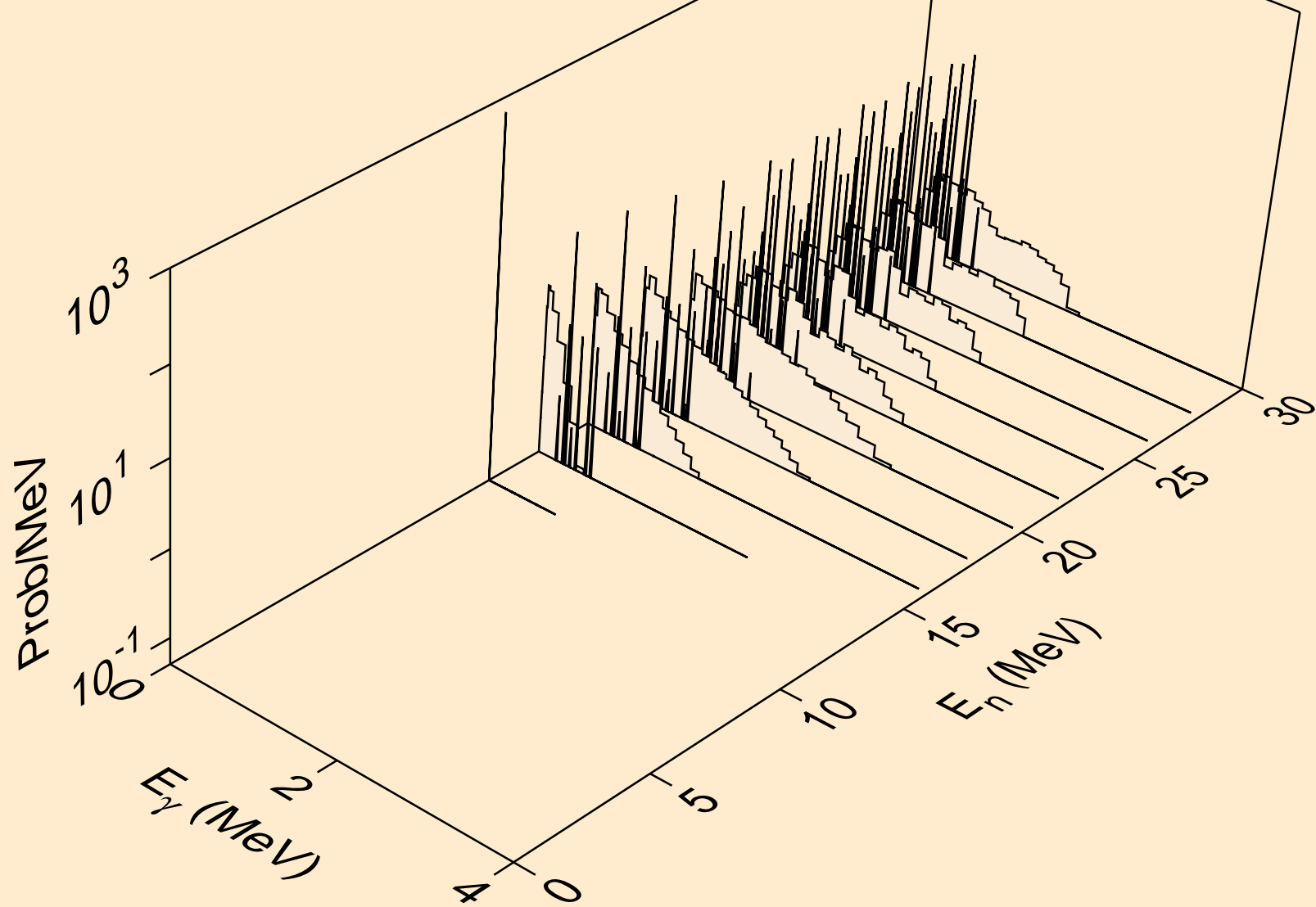
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)3a



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

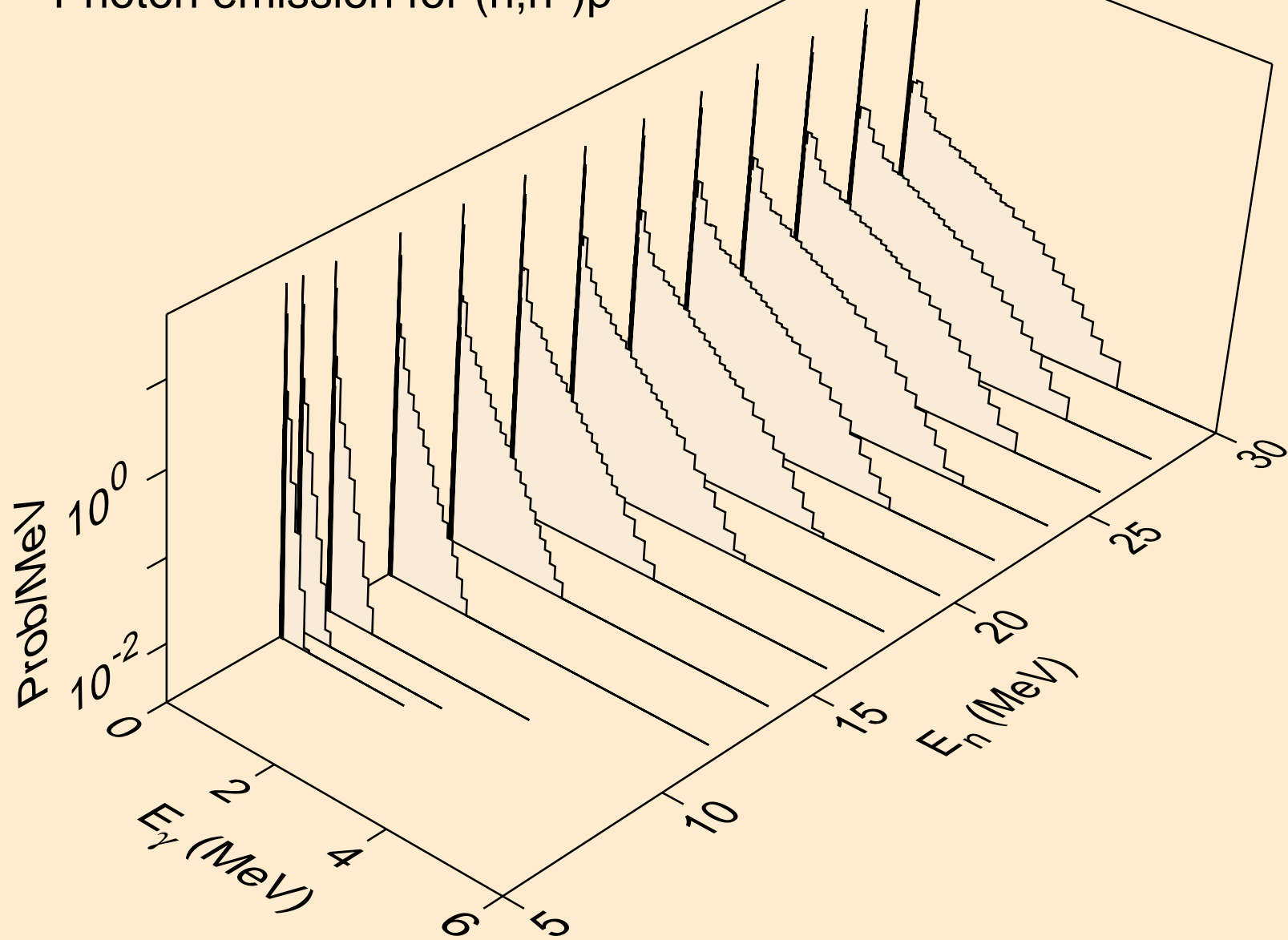


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a

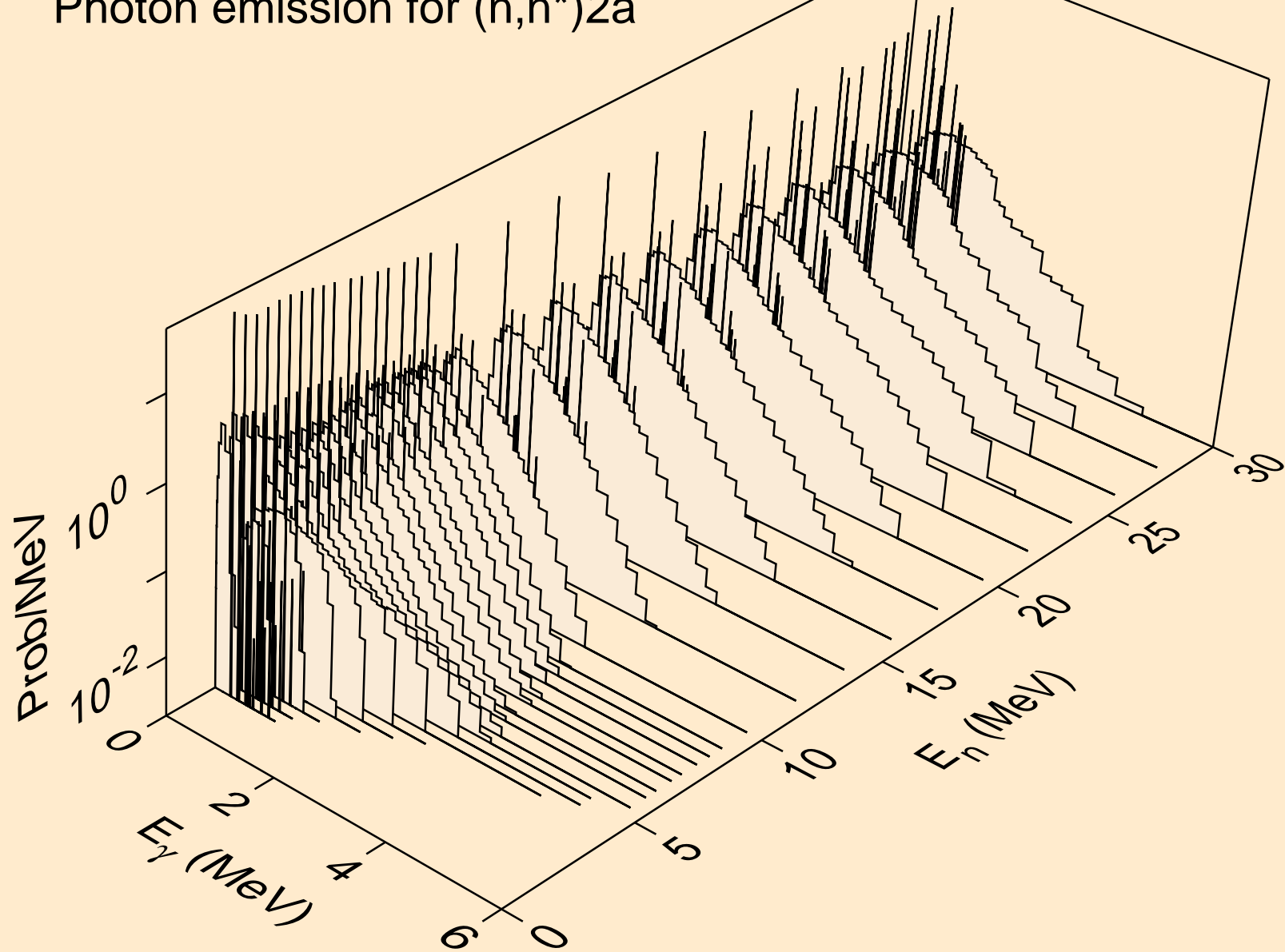




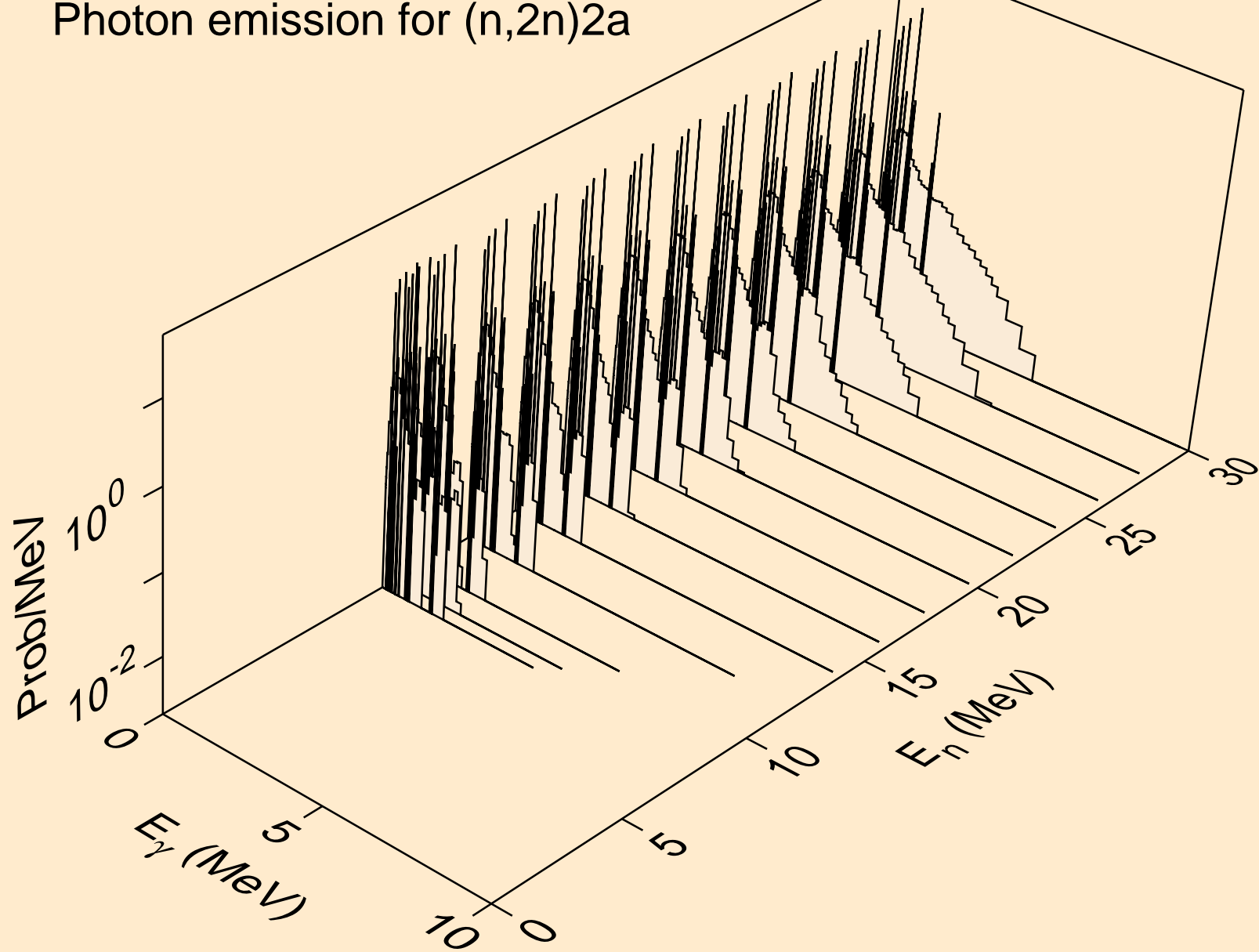
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



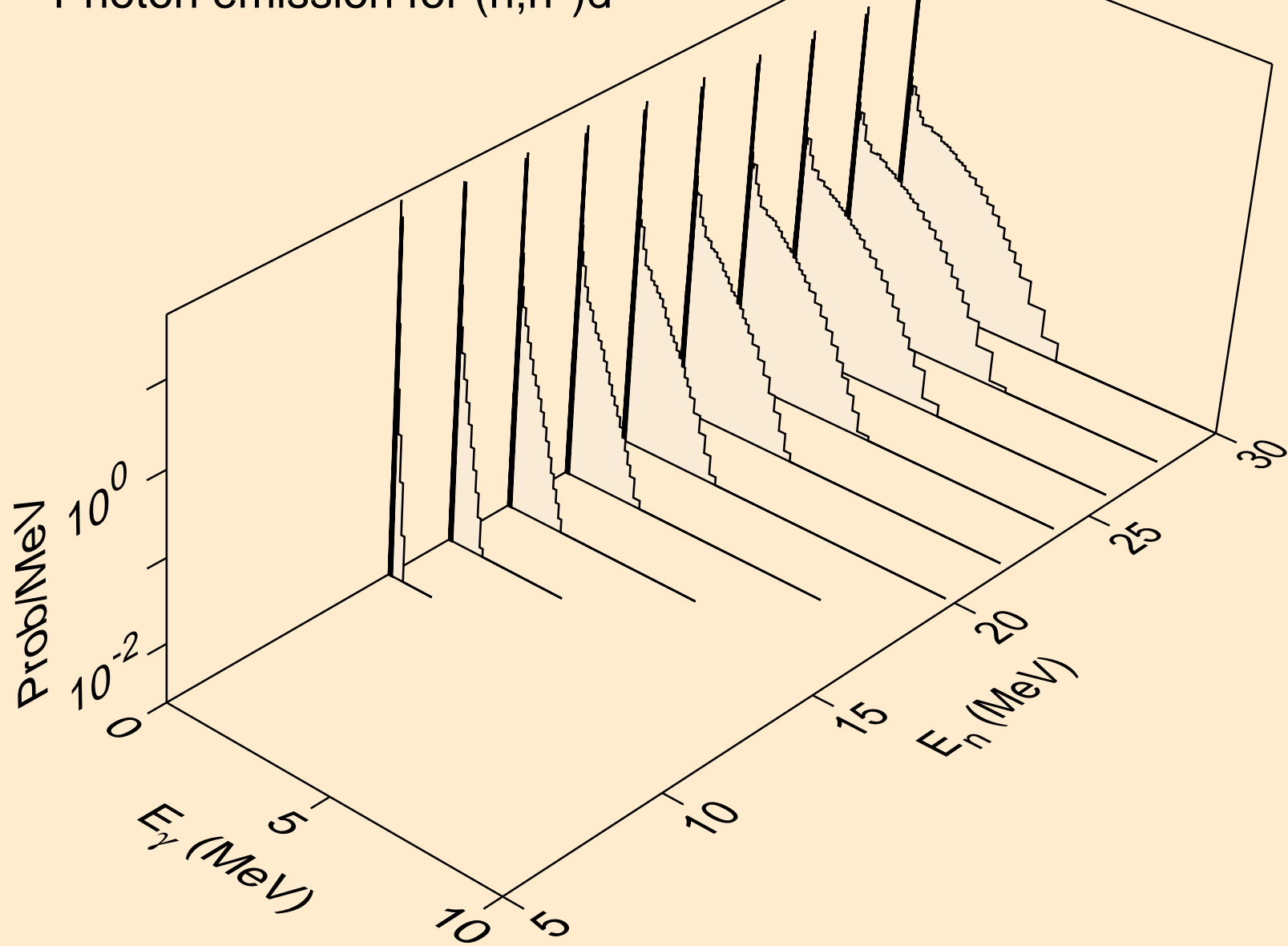
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Photon emission for (n,n\*)2a



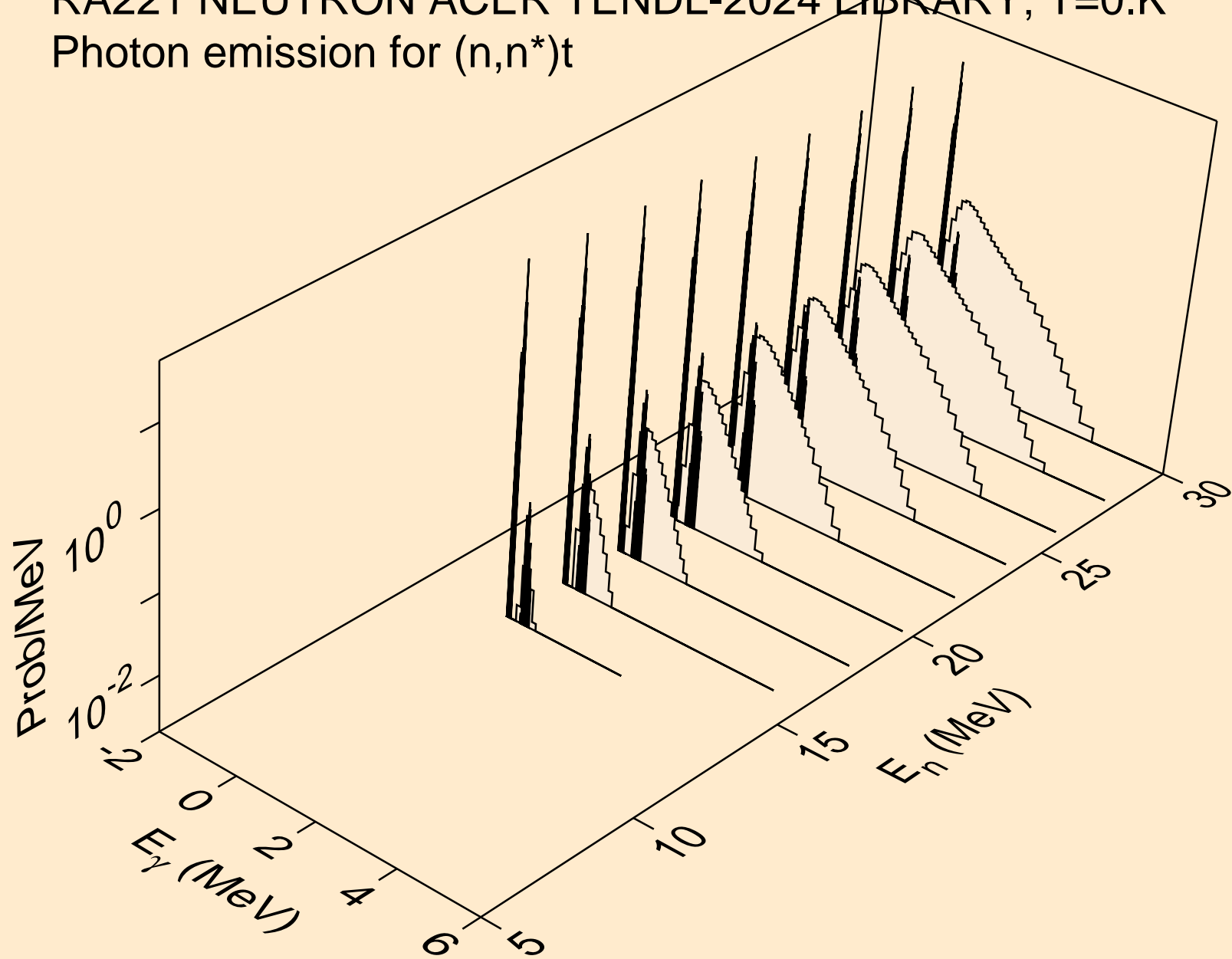
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



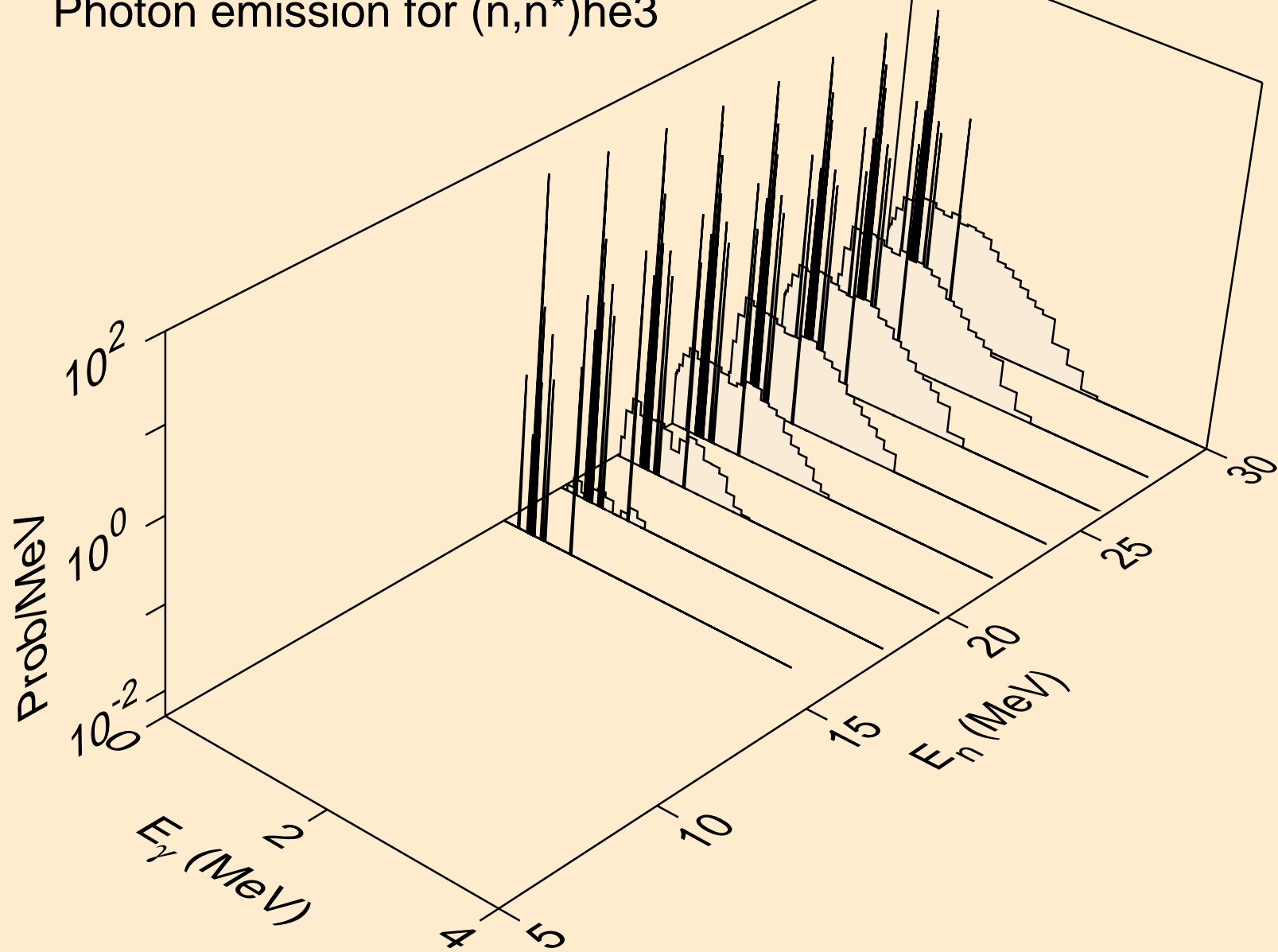
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Photon emission for (n,n\*)d



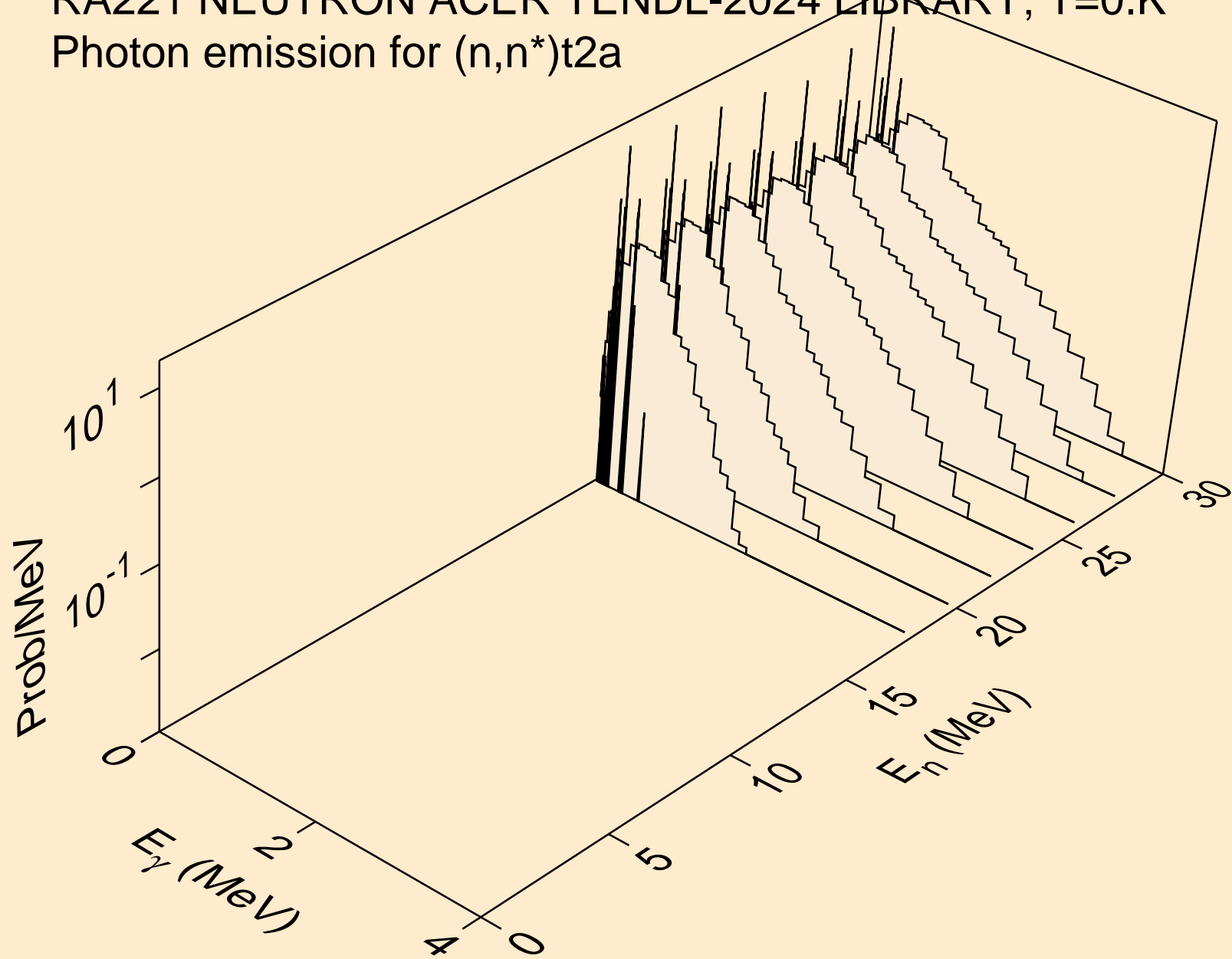
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



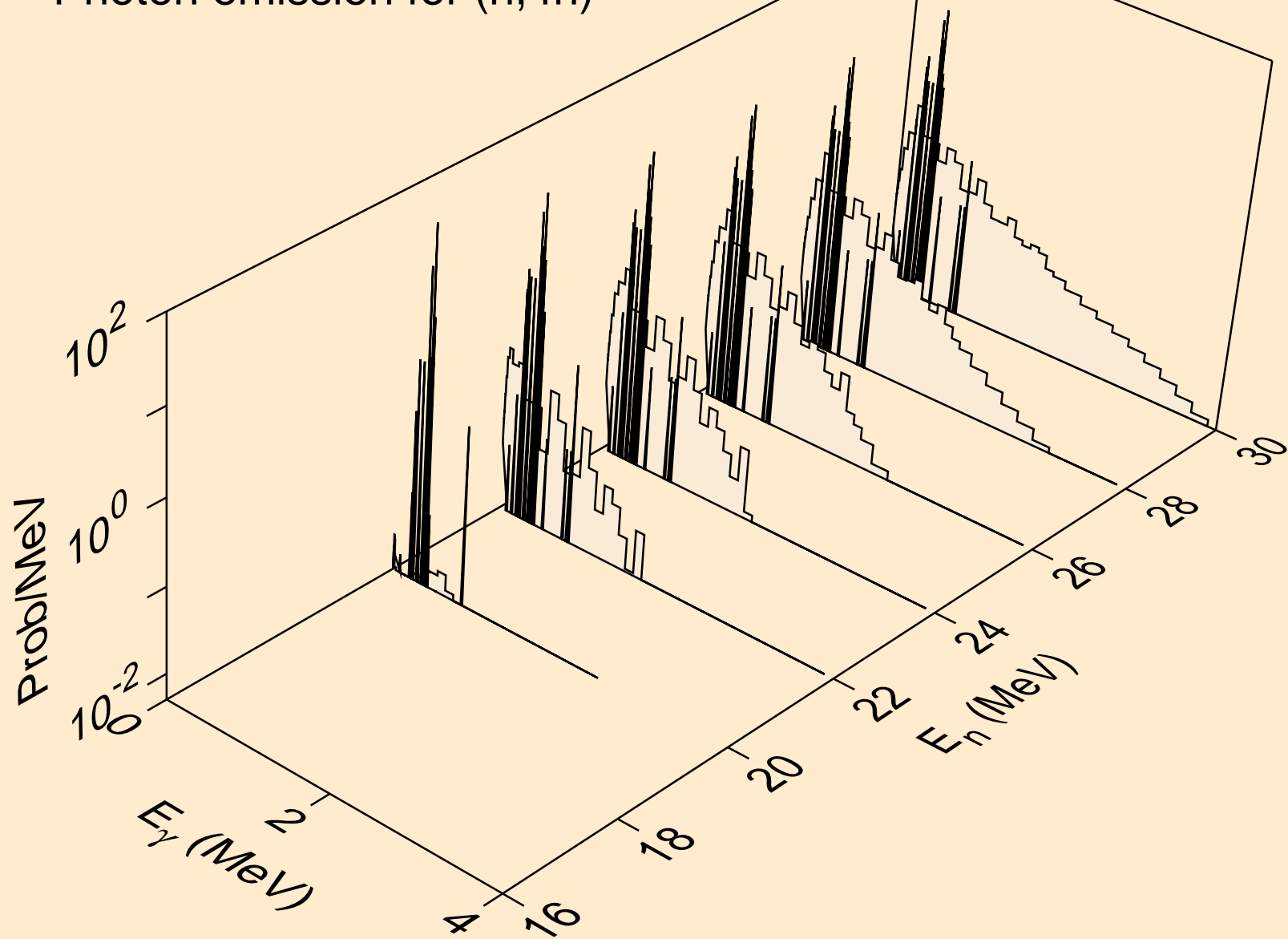
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t2a

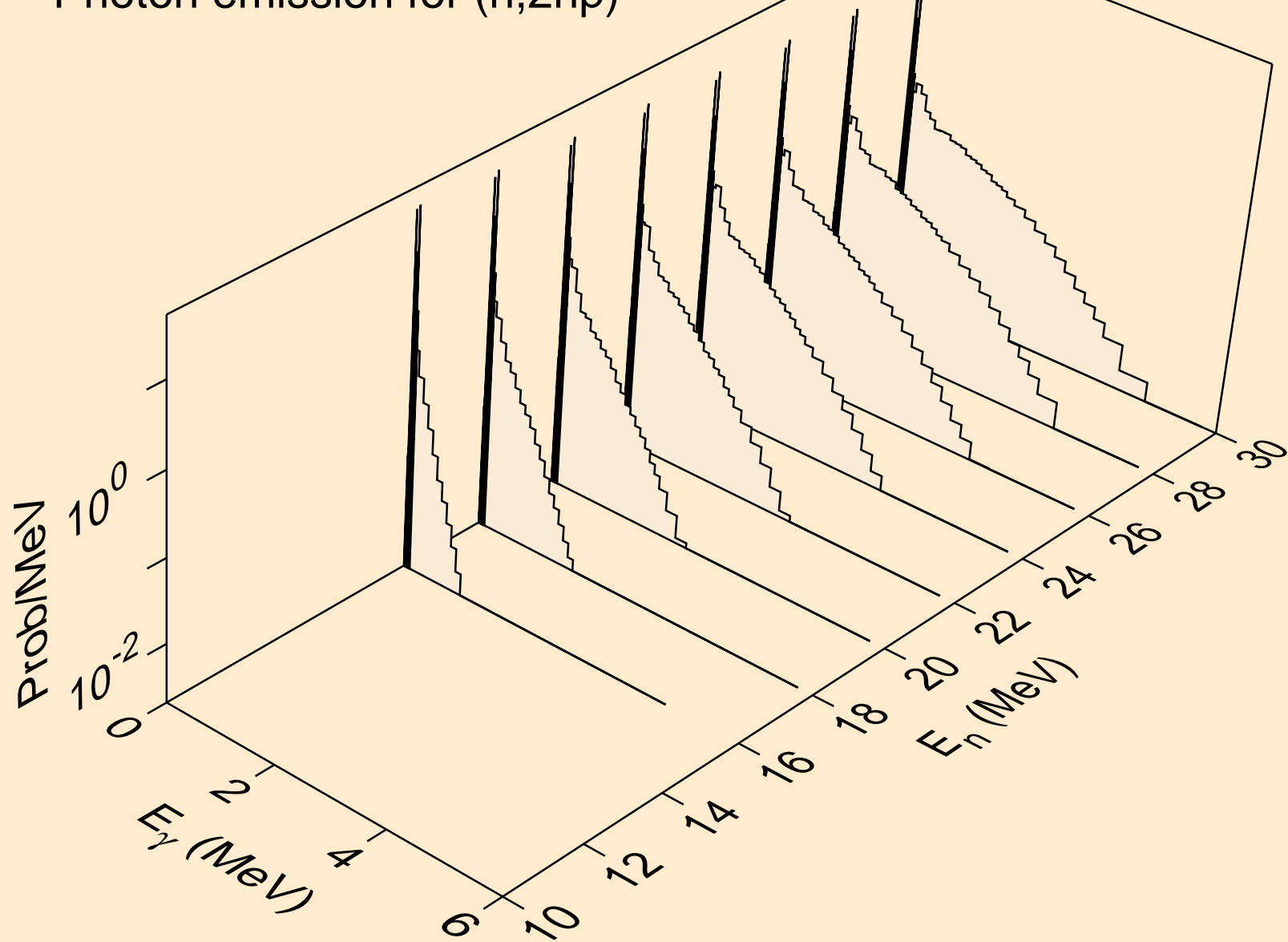


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)

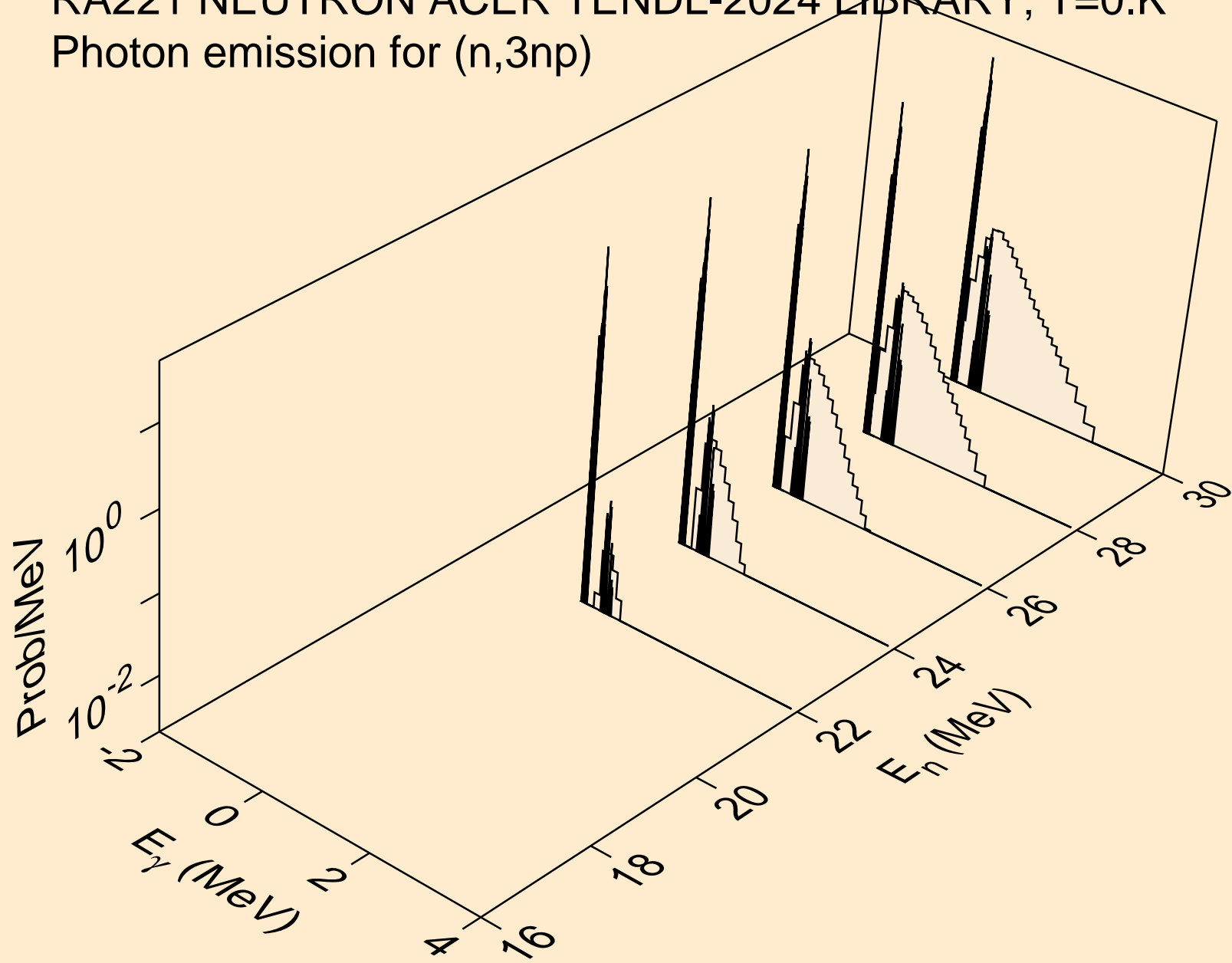




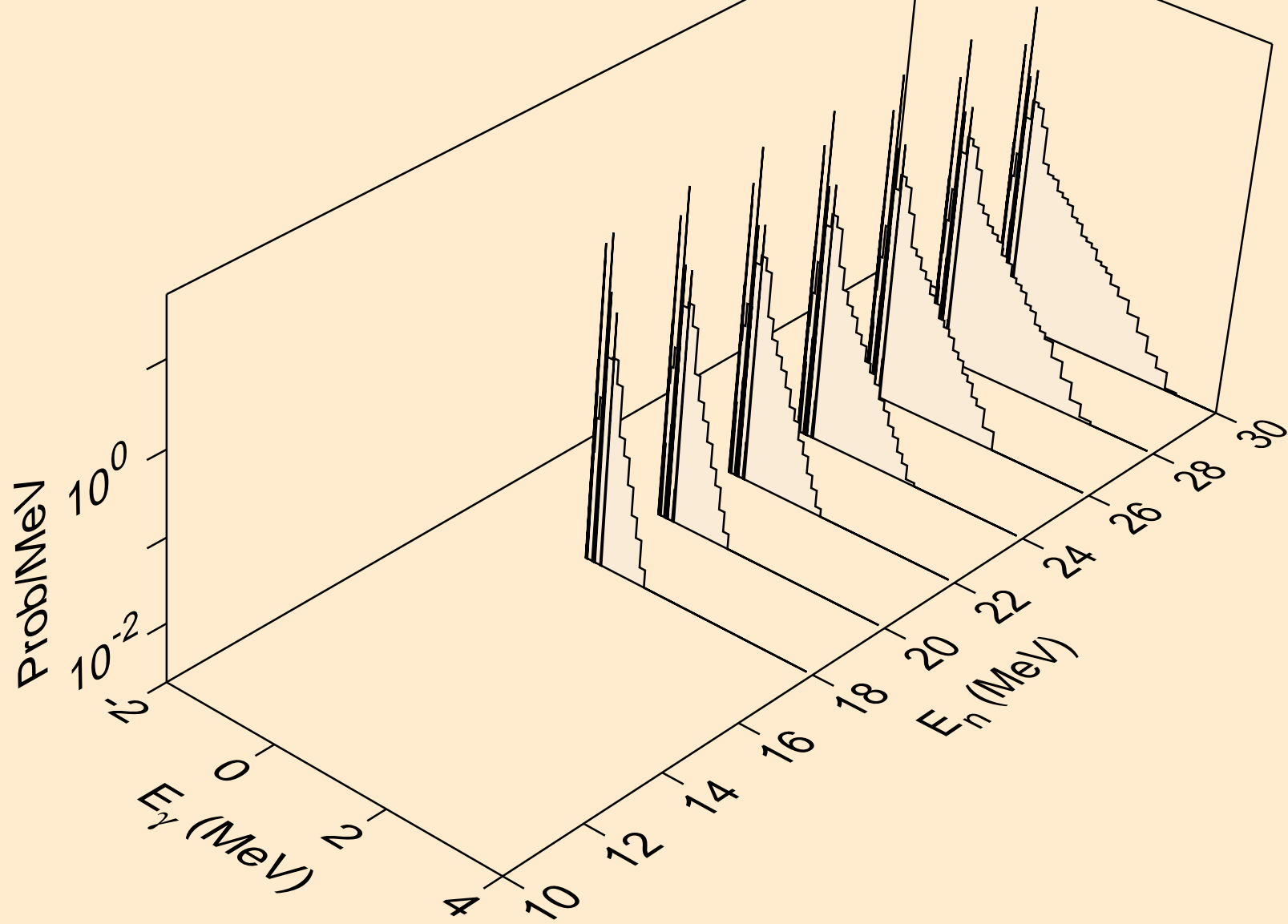
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



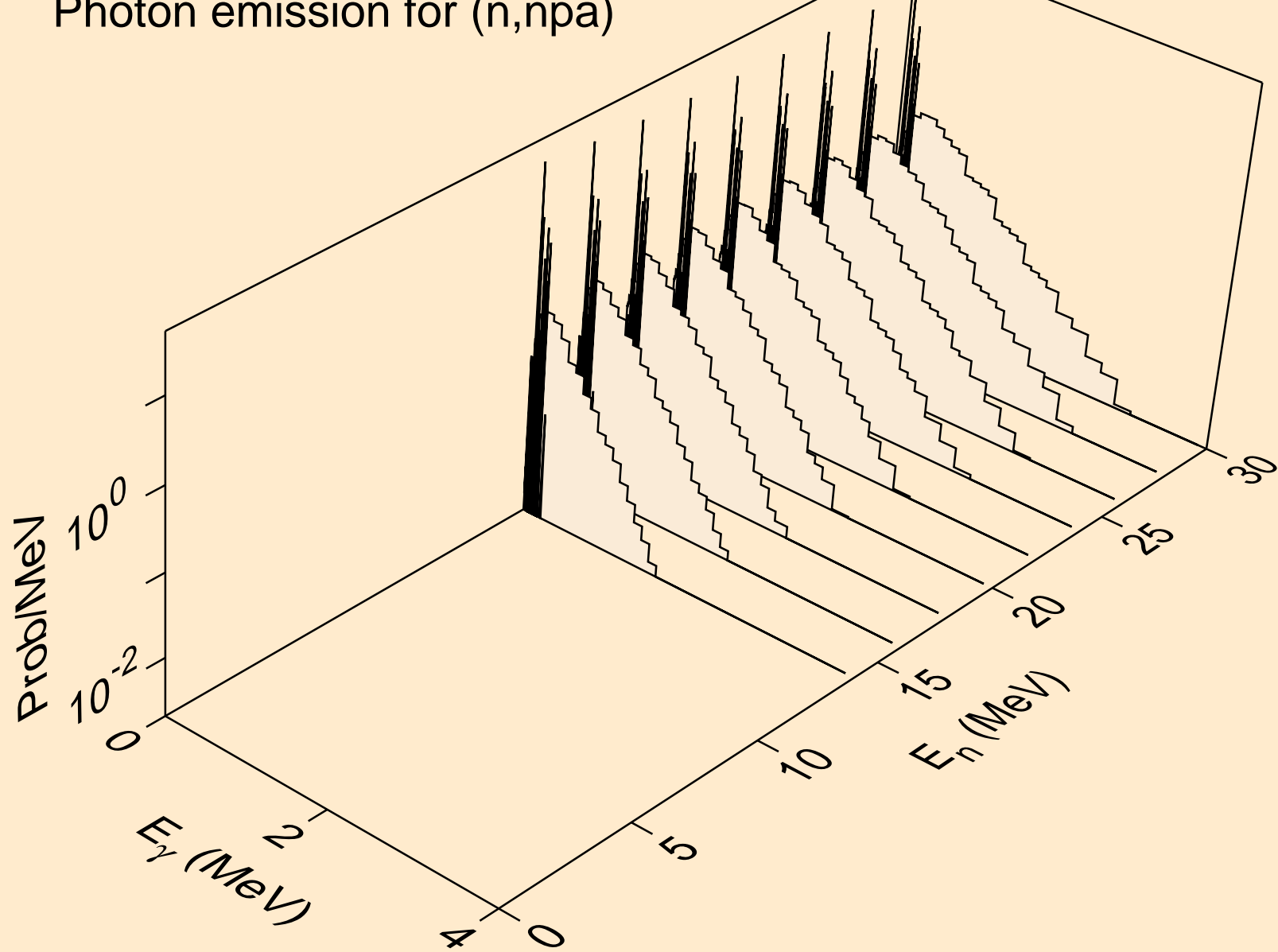
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Photon emission for (n,3np)



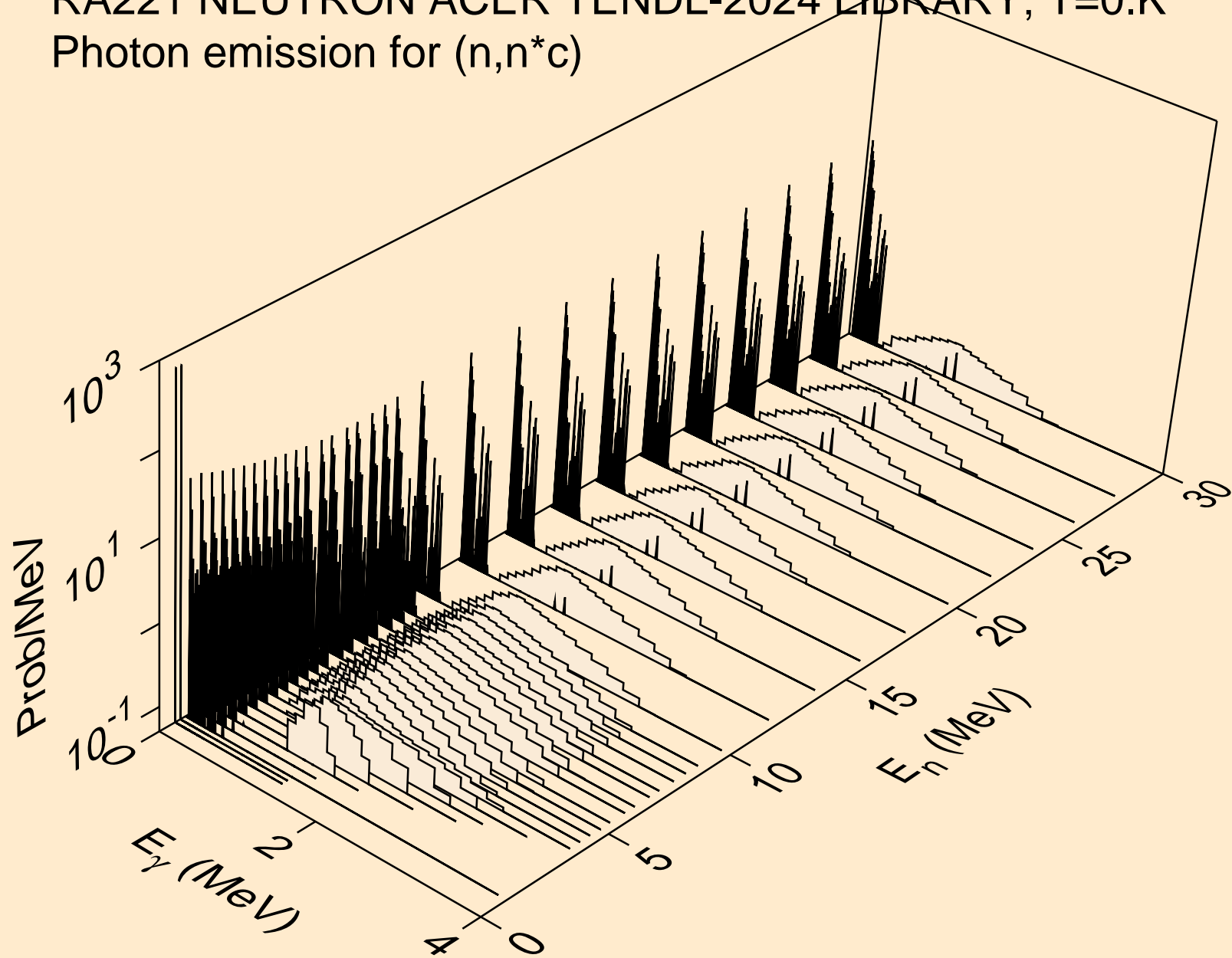
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Photon emission for (n,n2p)



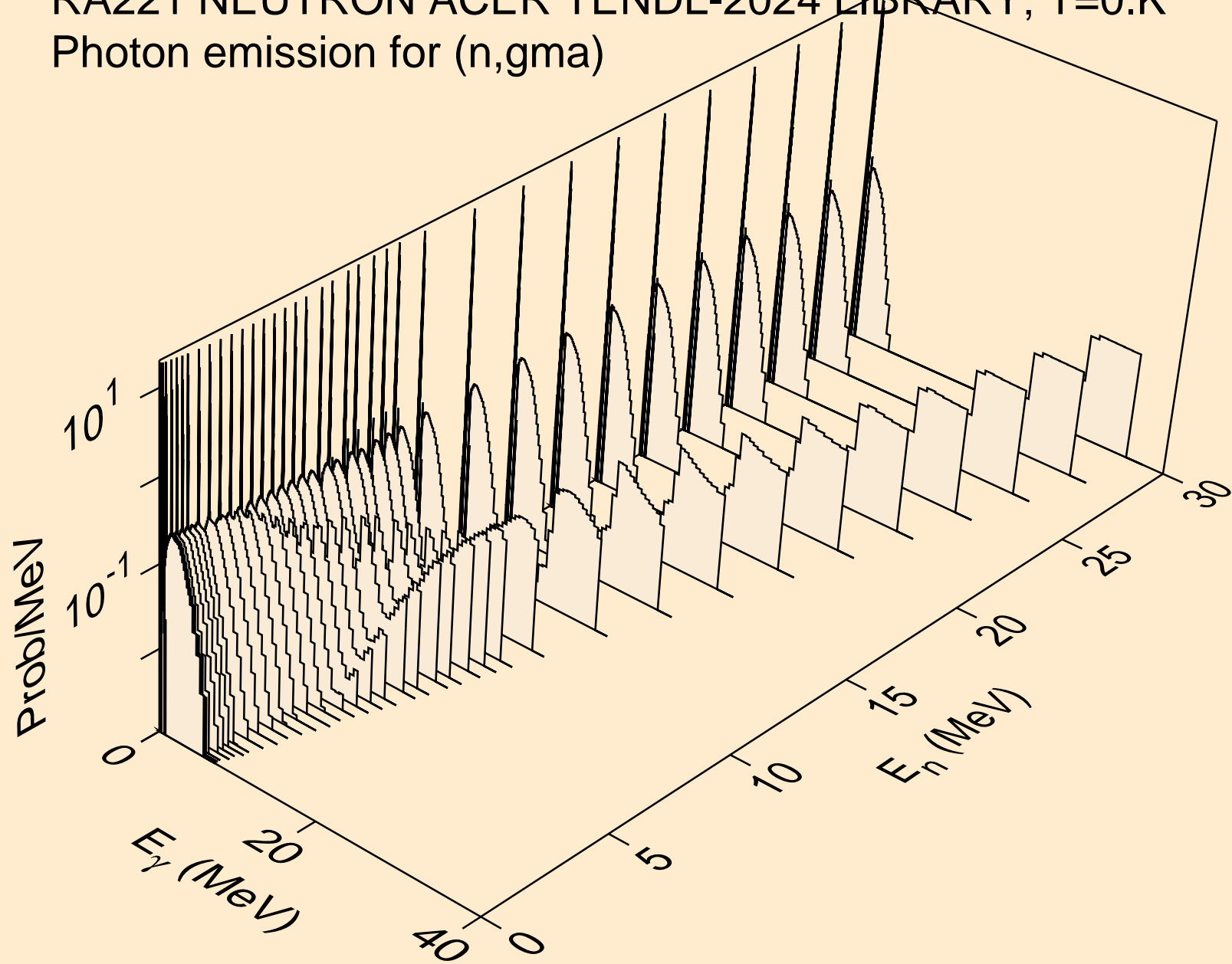
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Photon emission for (n,npa)



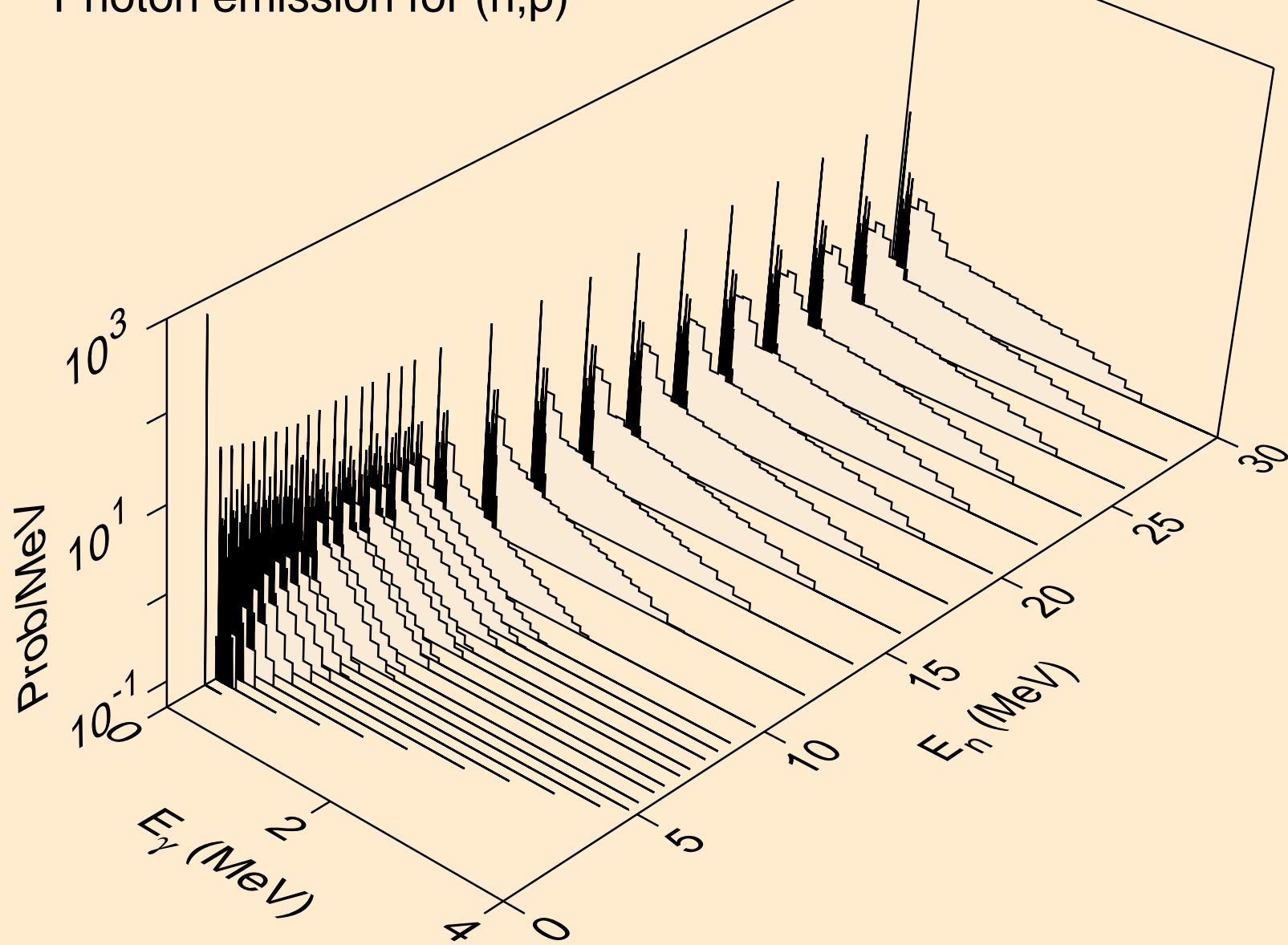
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Photon emission for (n,n\*c)



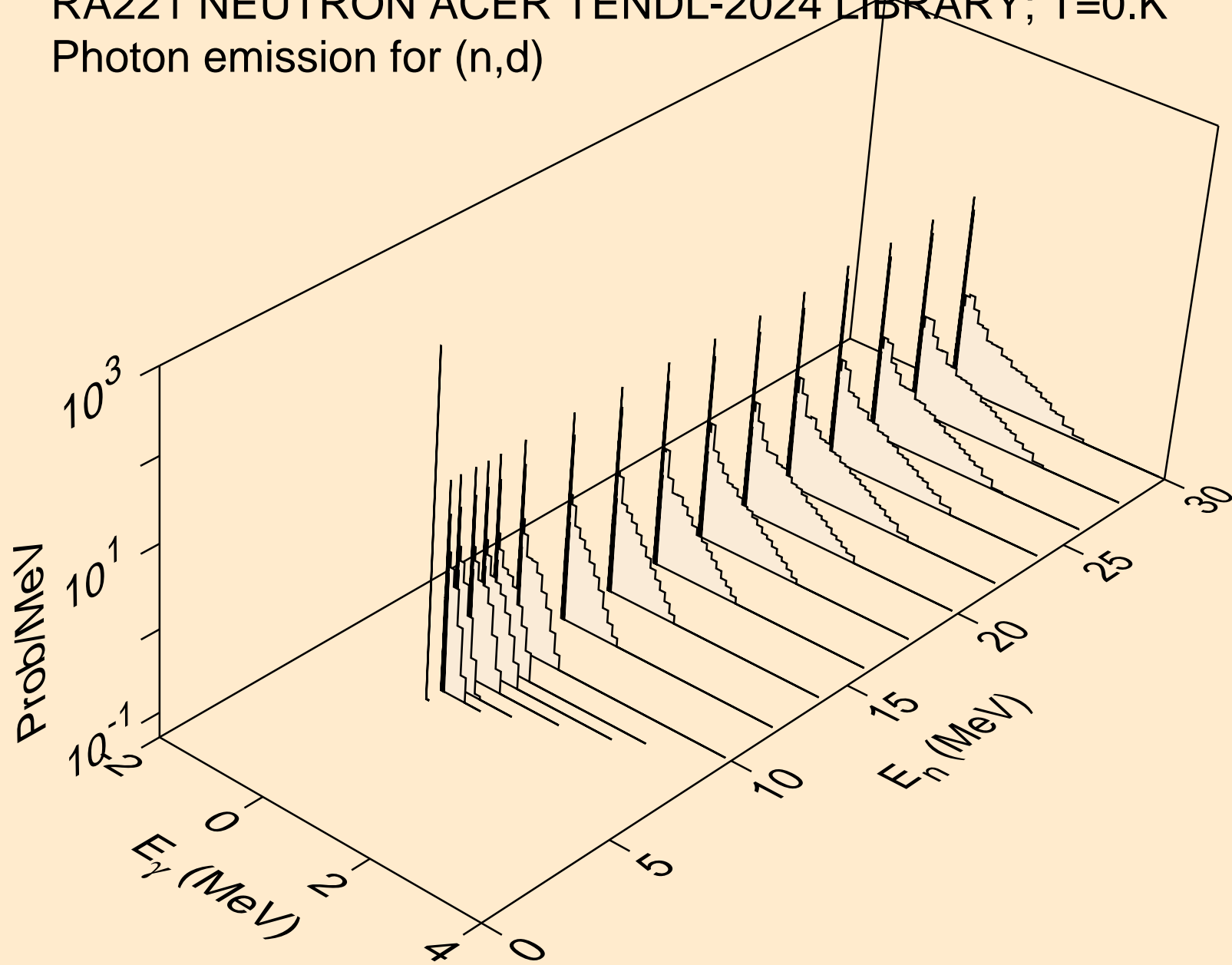
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

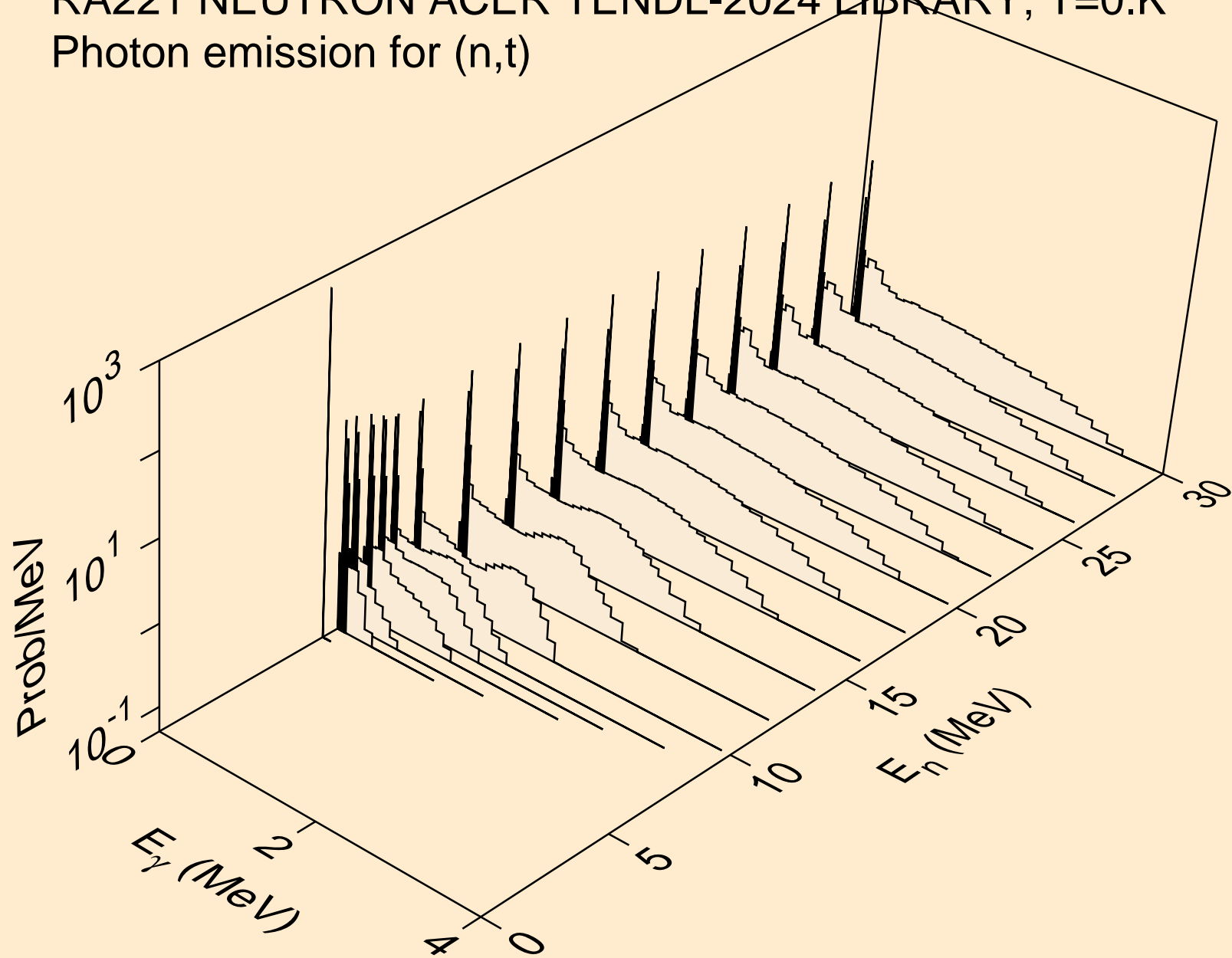


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)

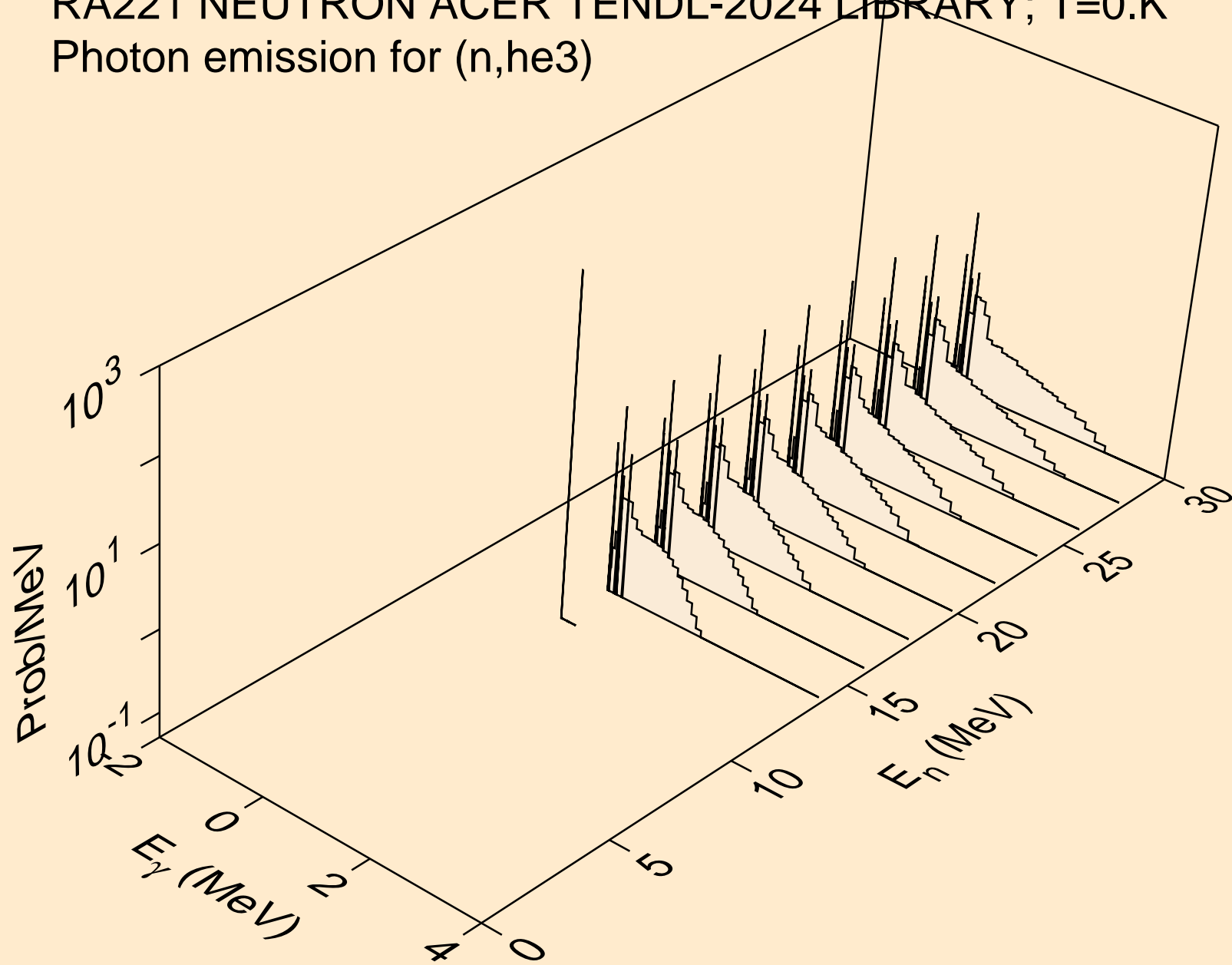




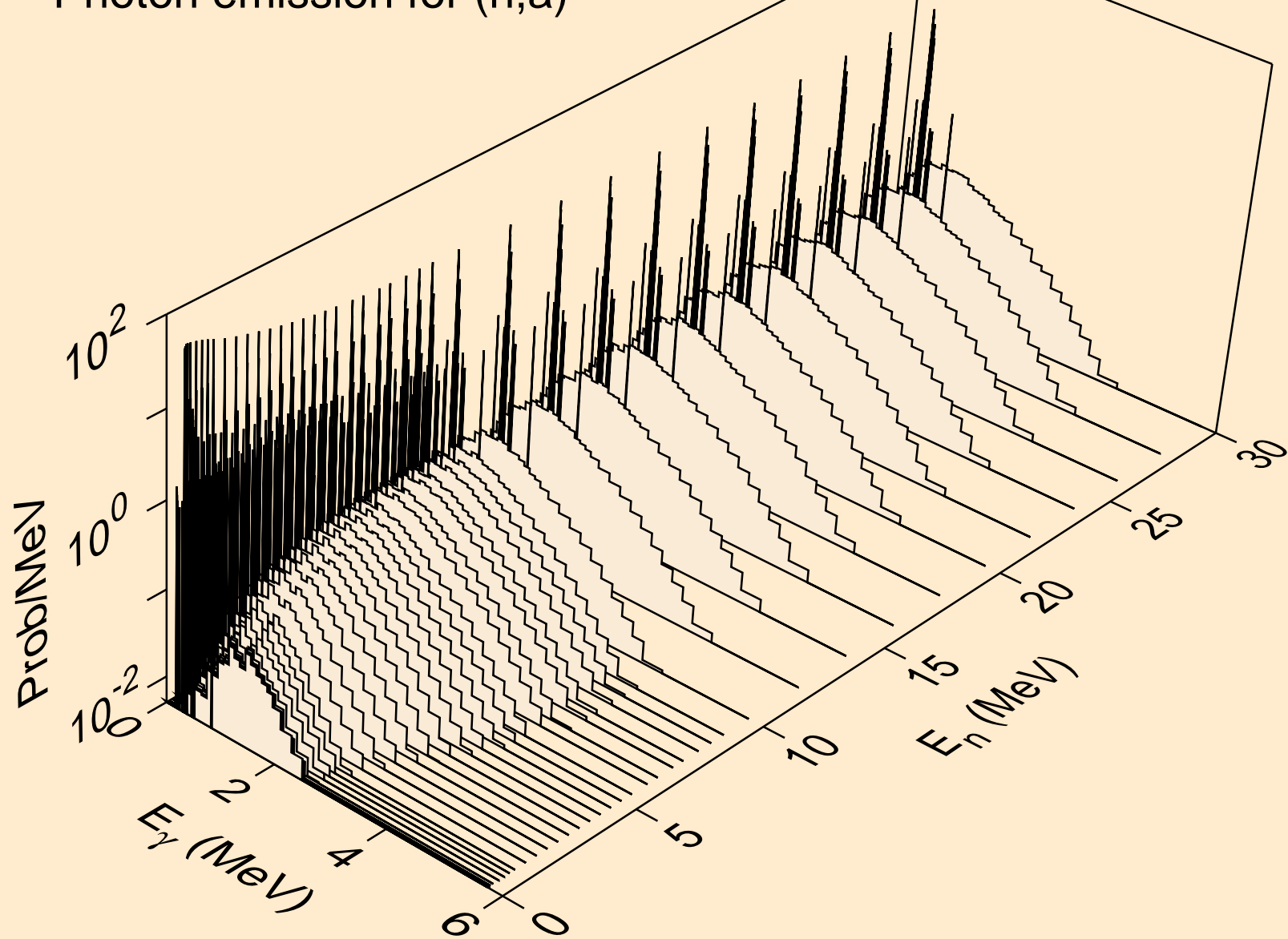
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Photon emission for (n,t)



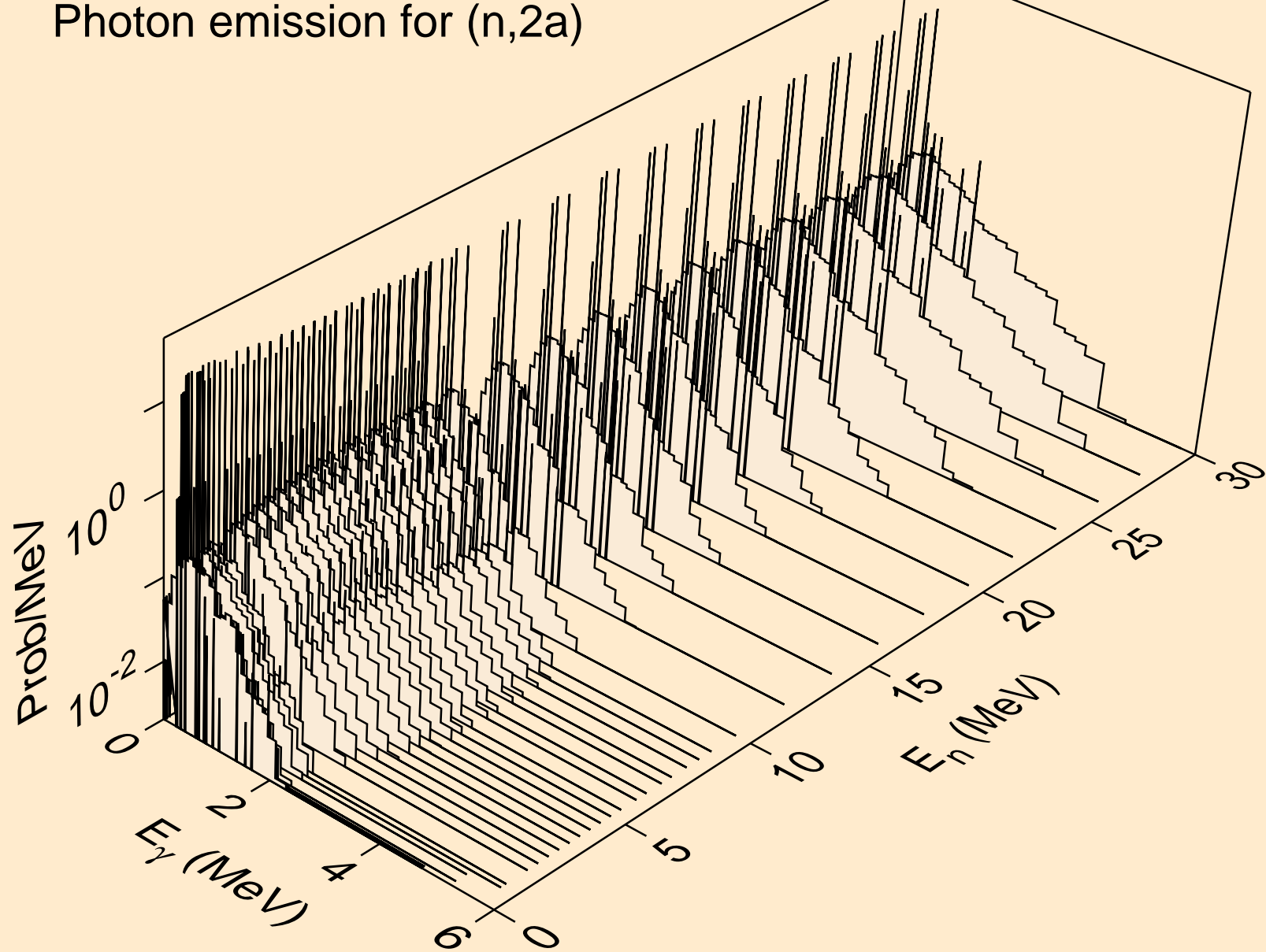
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Photon emission for (n,he3)



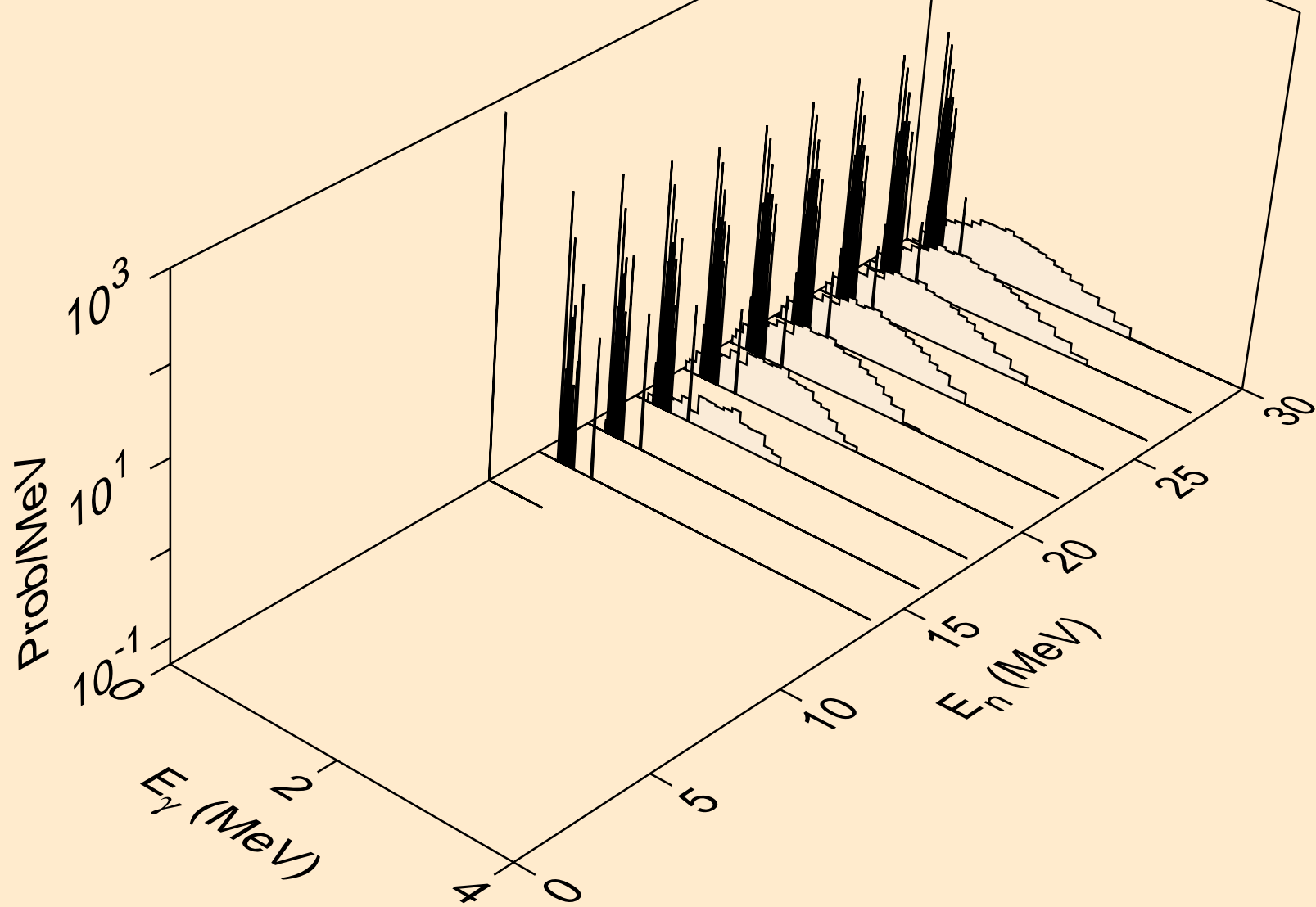
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Photon emission for (n,a)



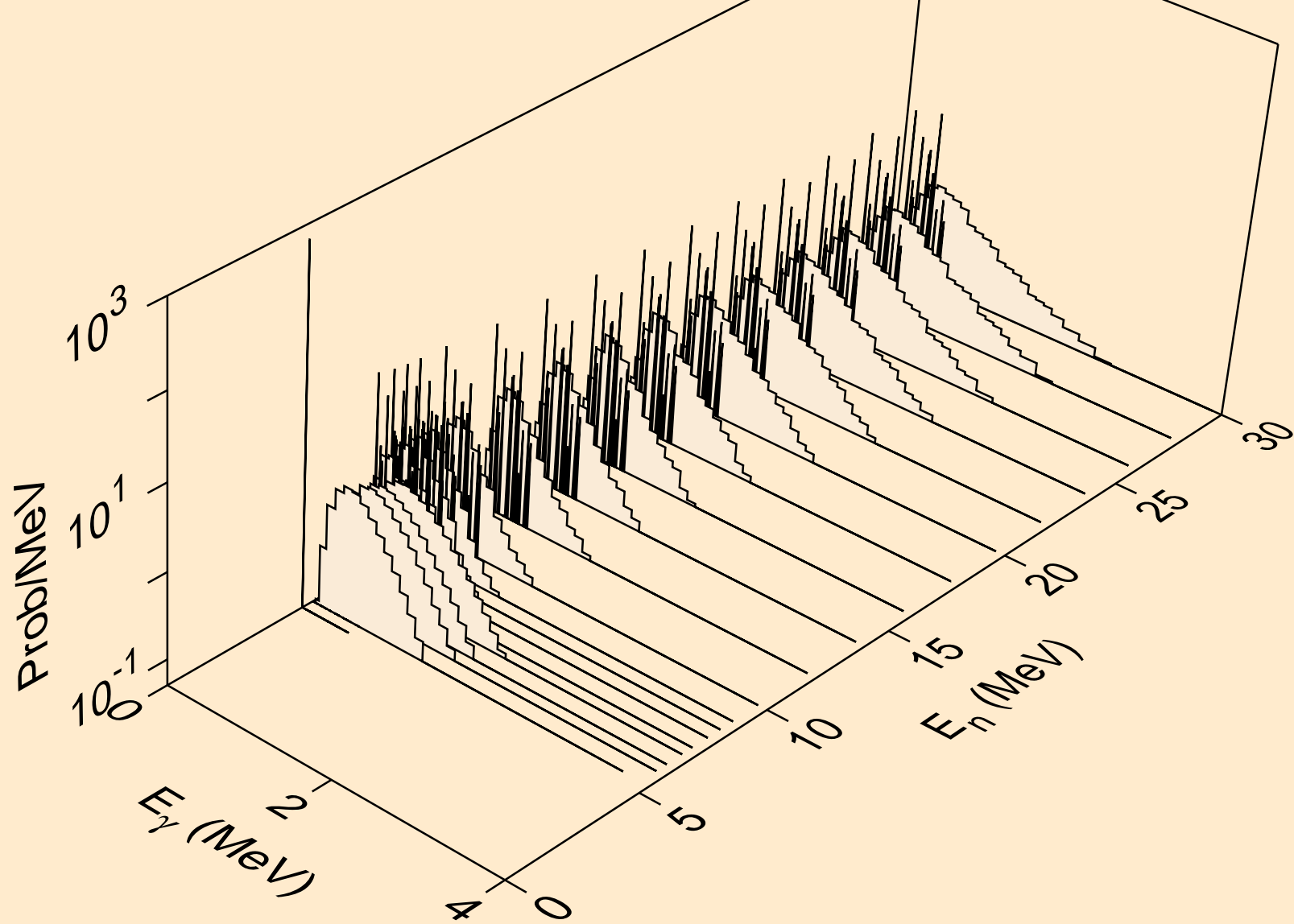
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Photon emission for (n,2a)



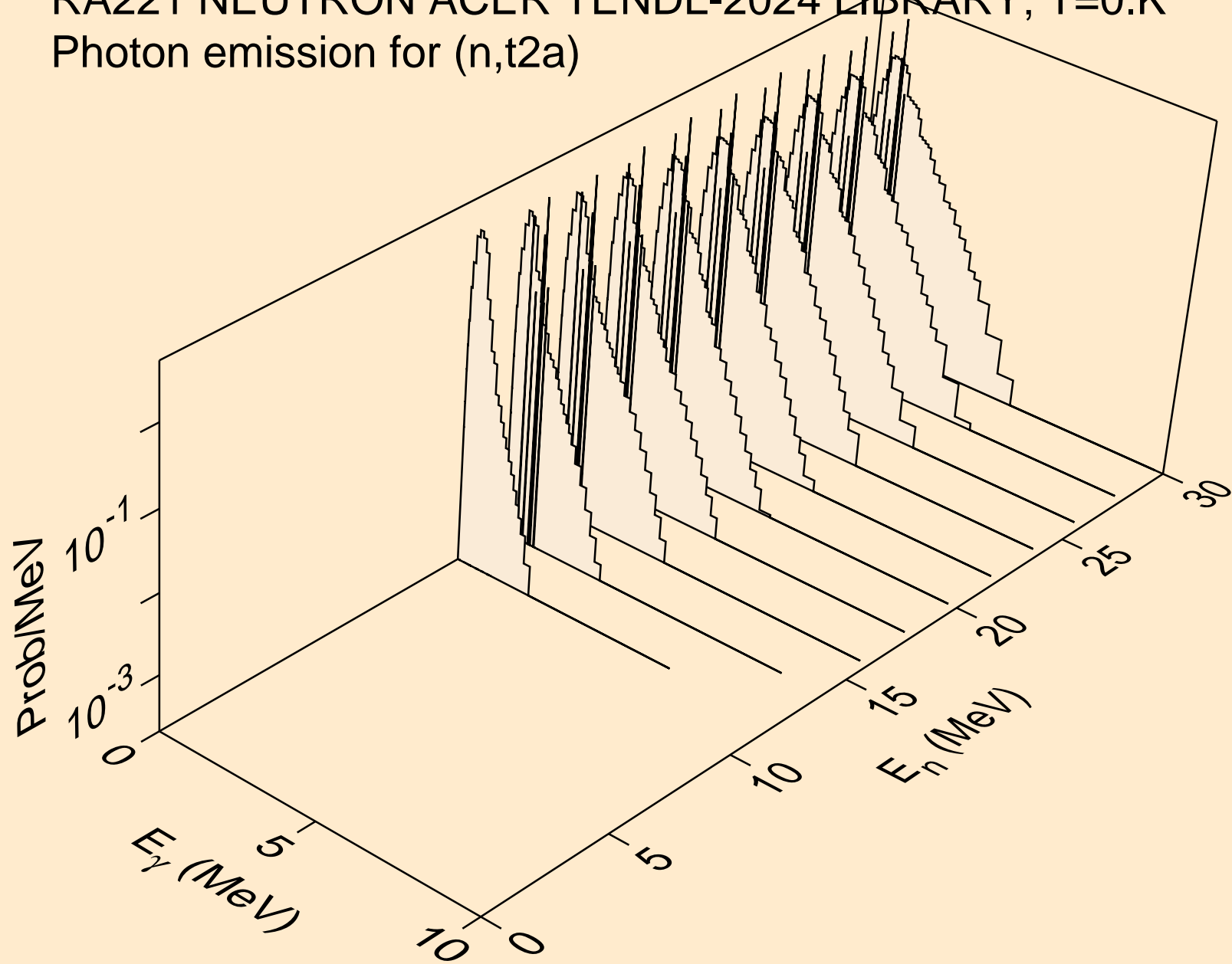
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Photon emission for (n,2p)



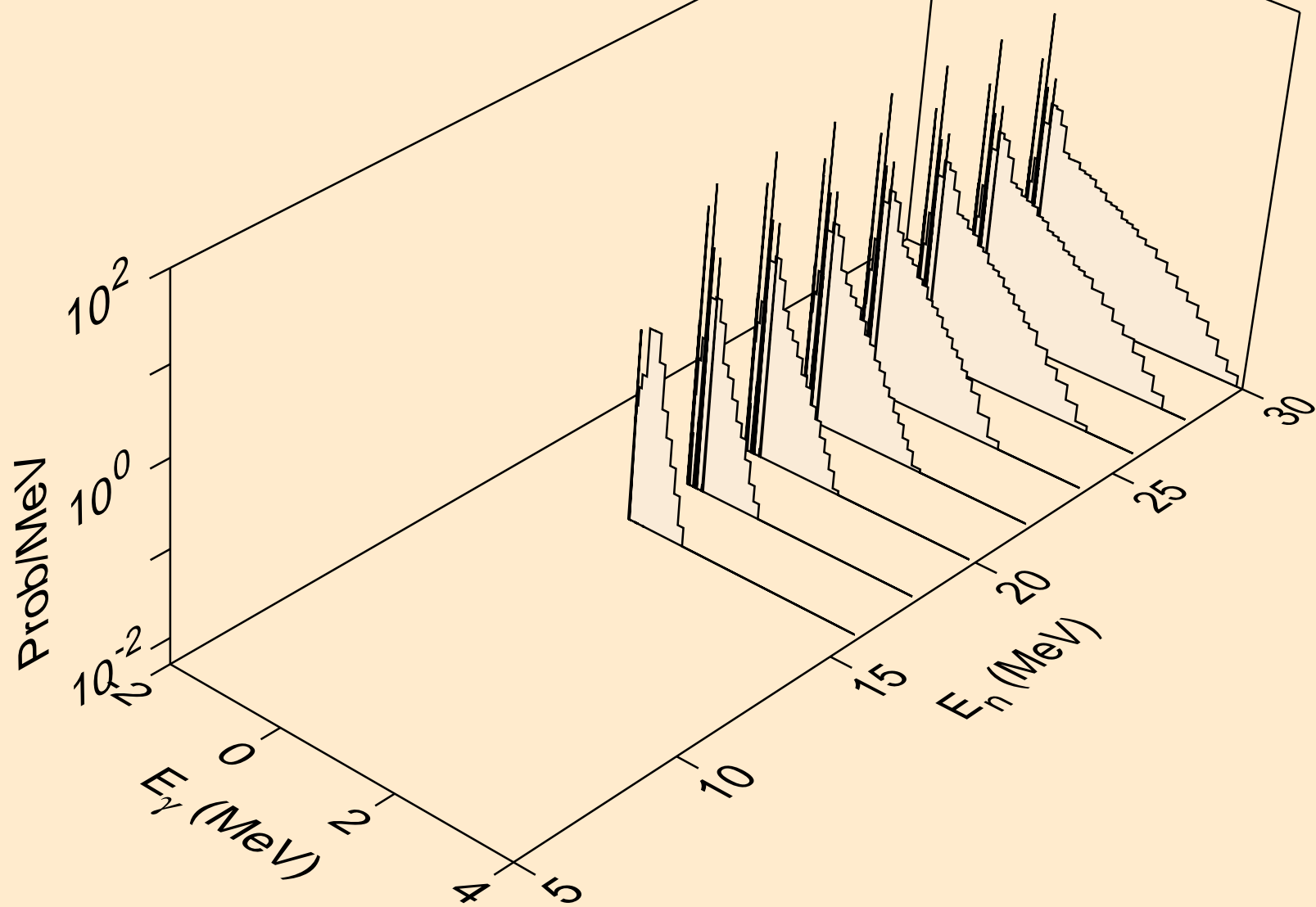
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t2a)

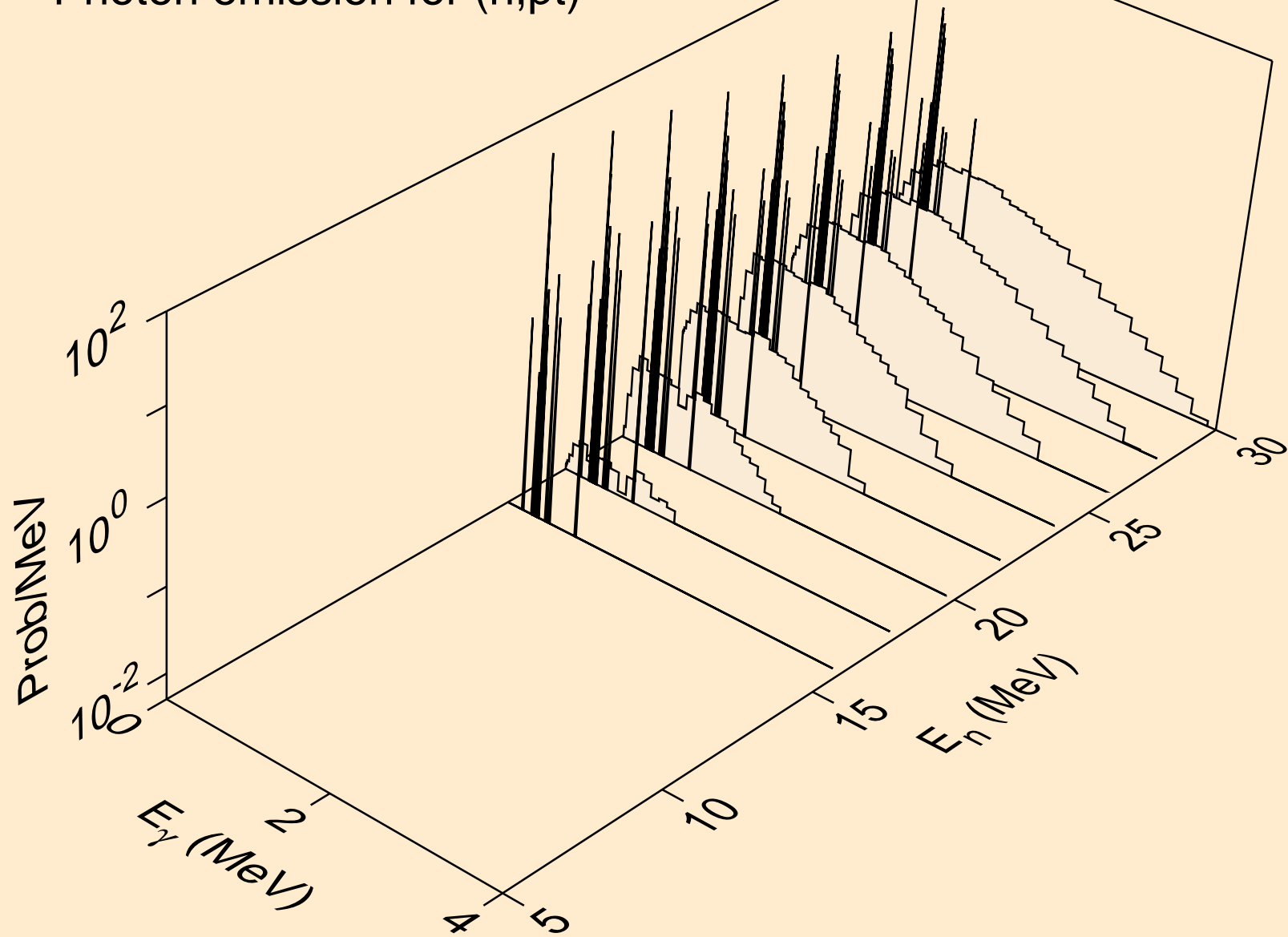


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

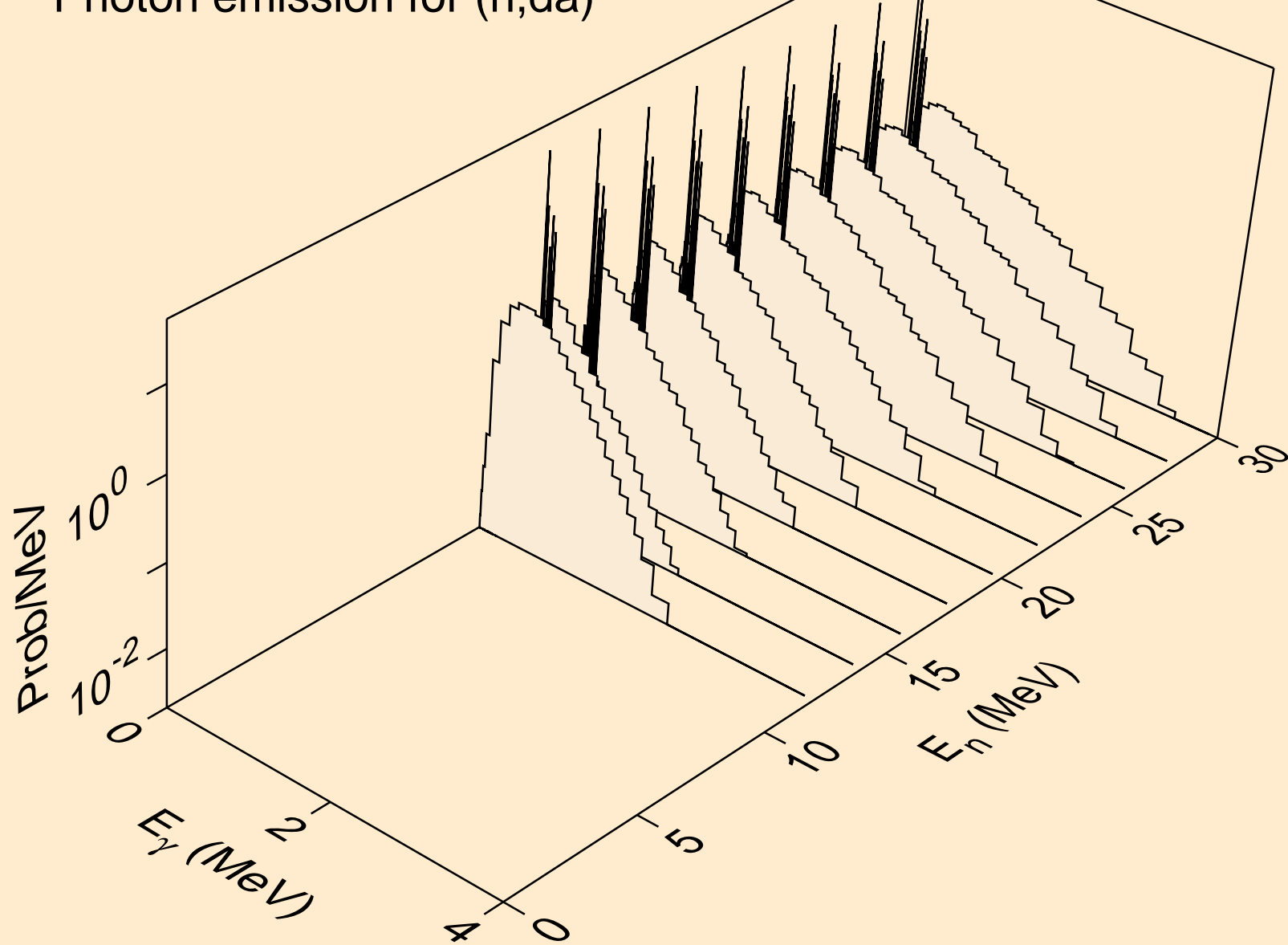




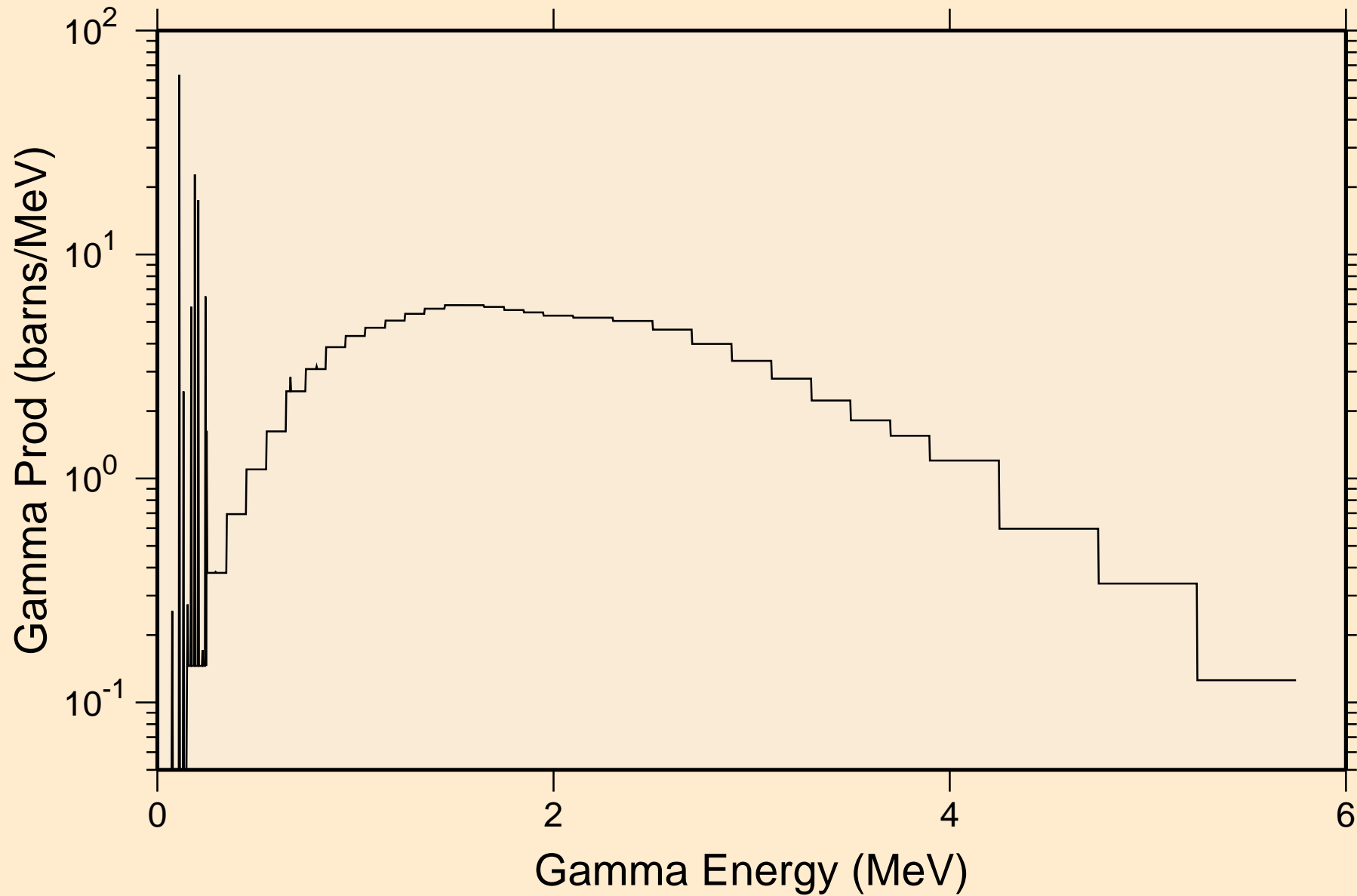
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Photon emission for (n,pt)



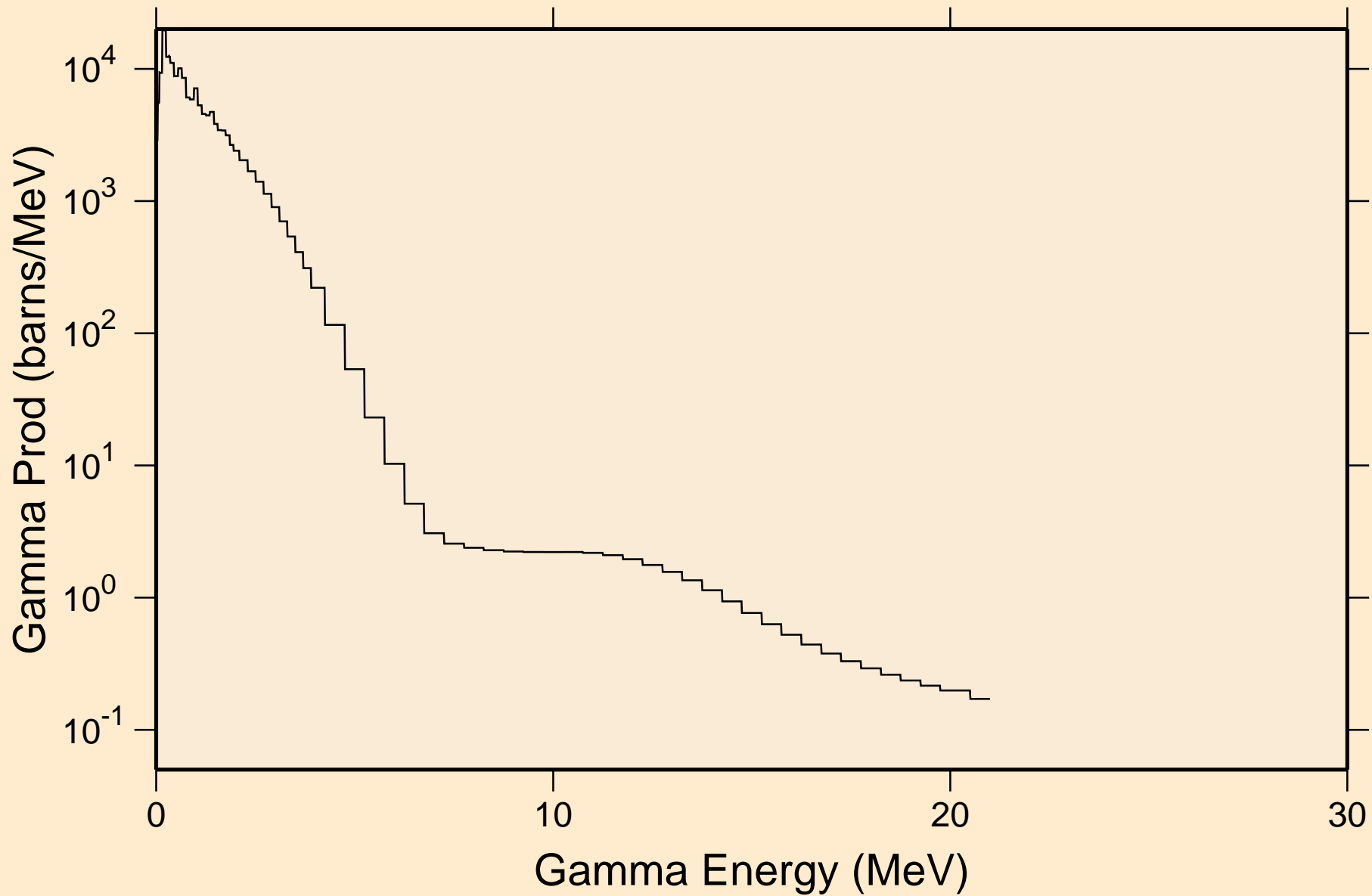
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

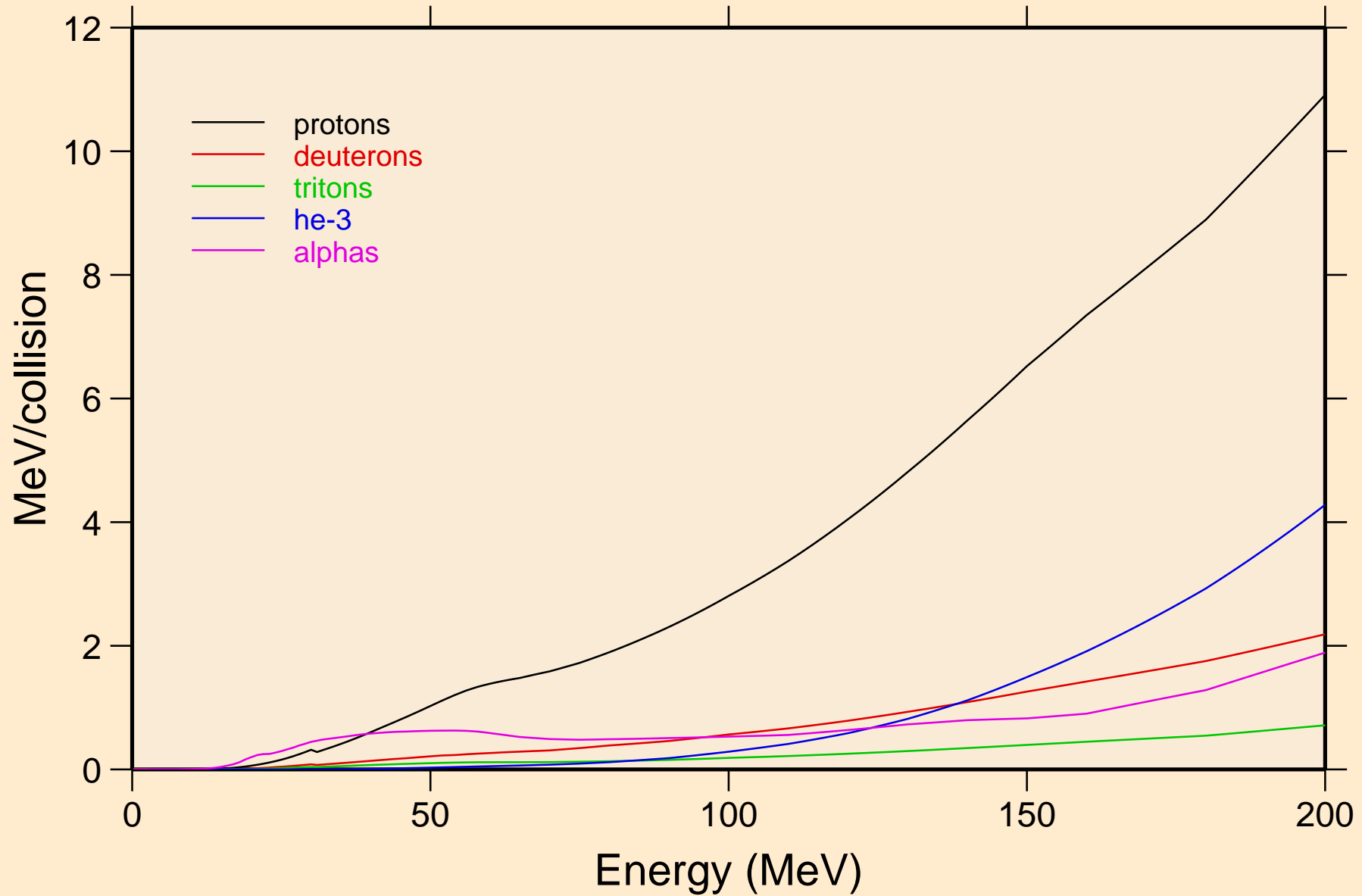


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

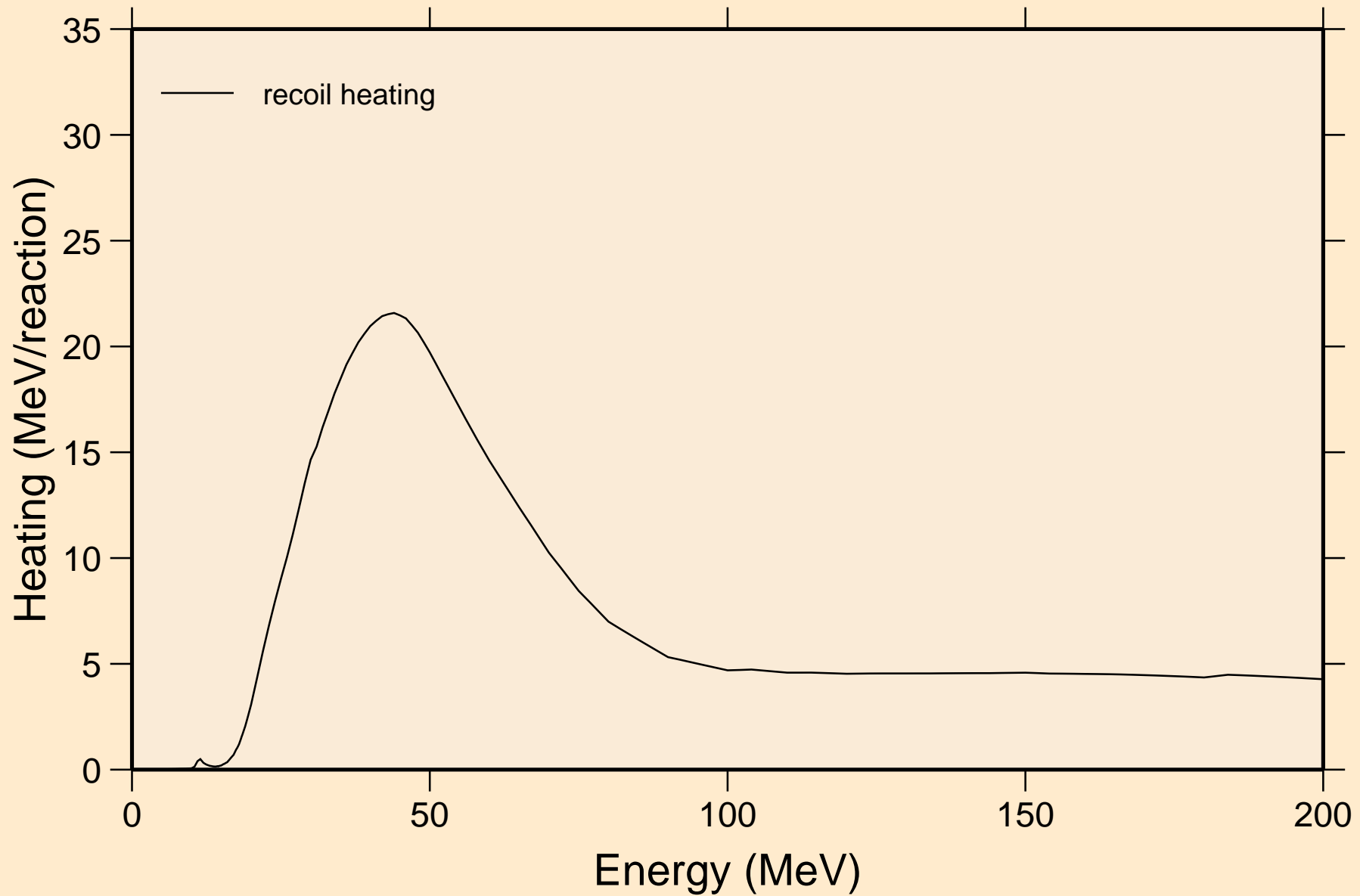


# RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

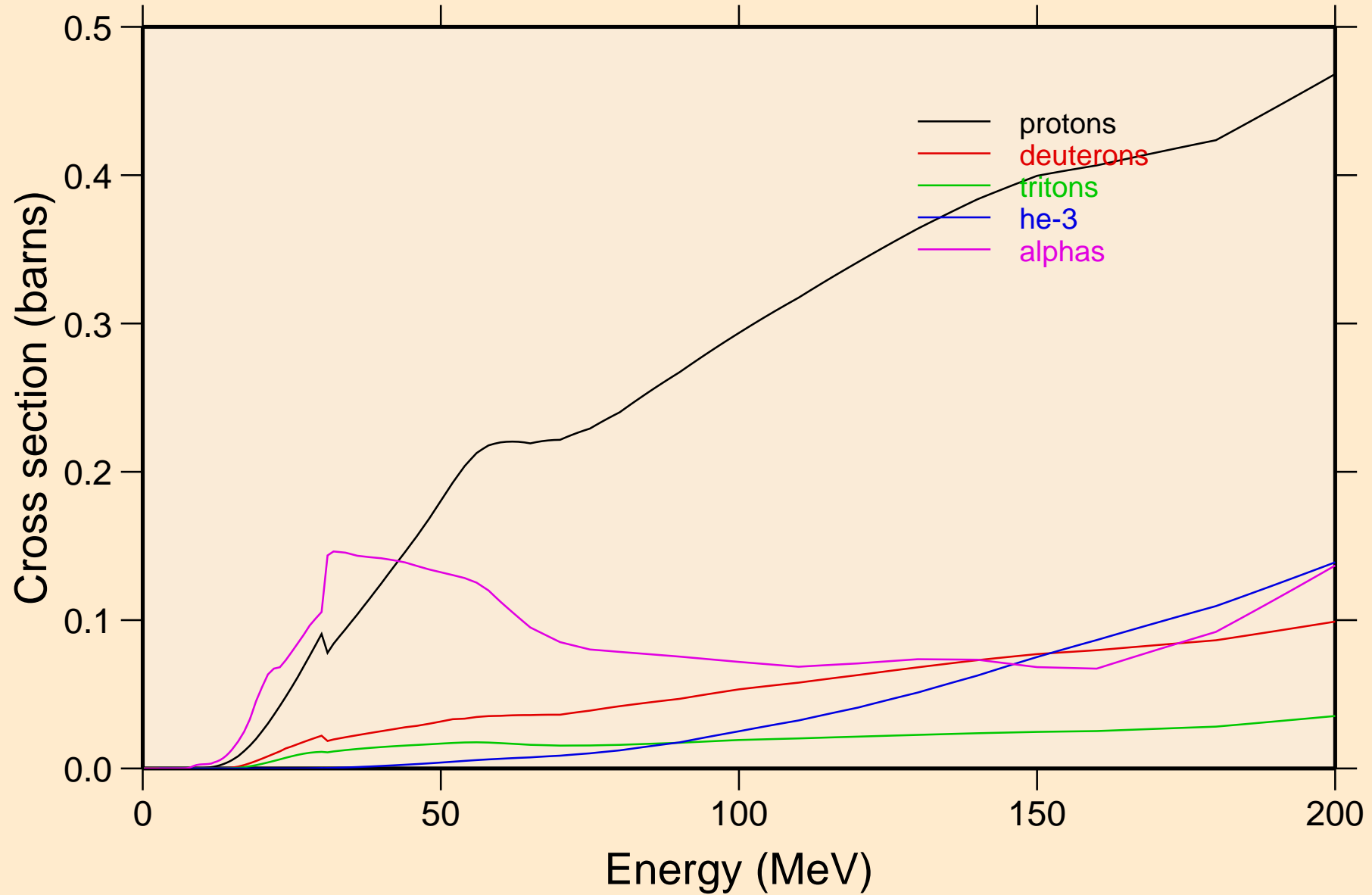
## Particle heating contributions



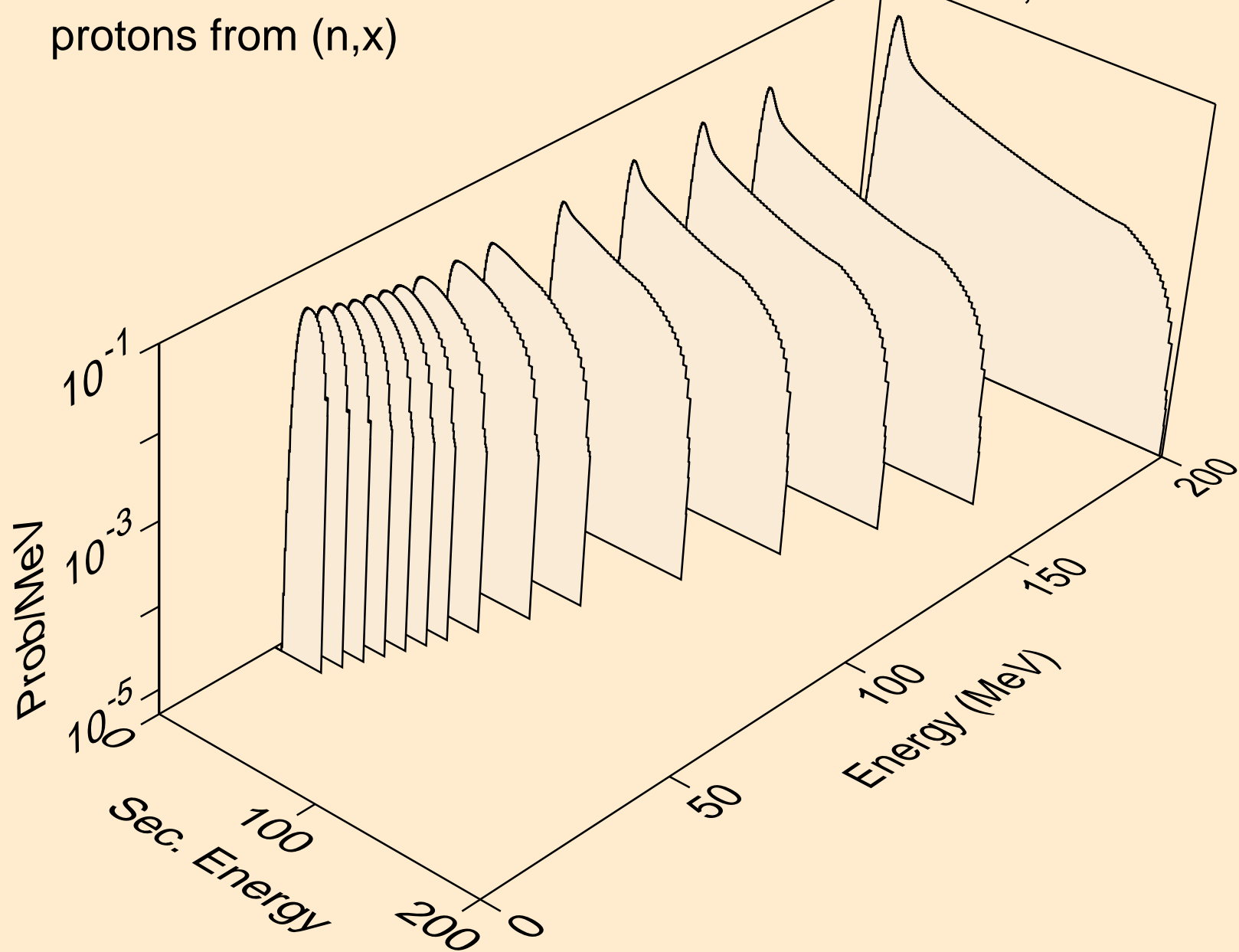
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections

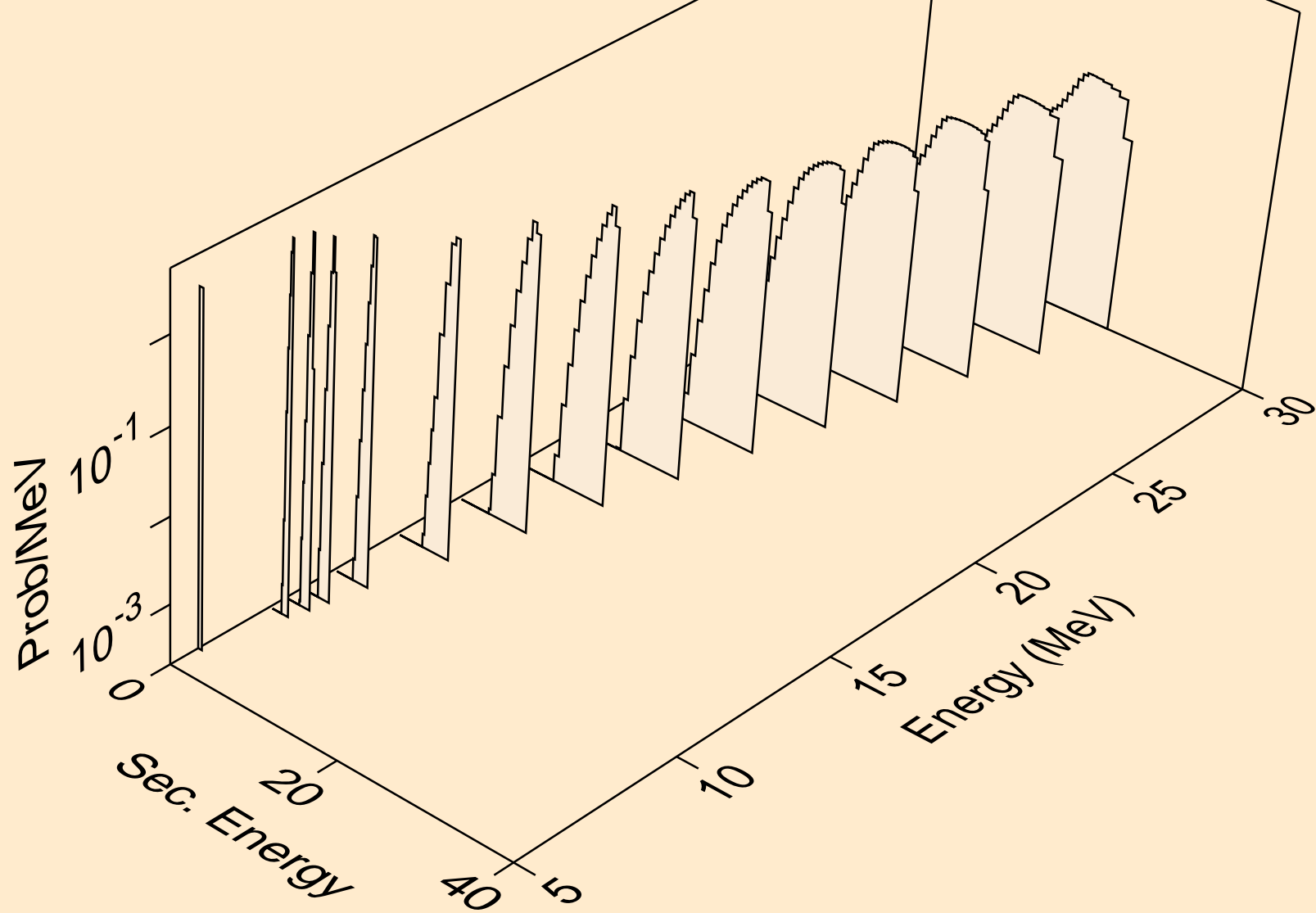


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

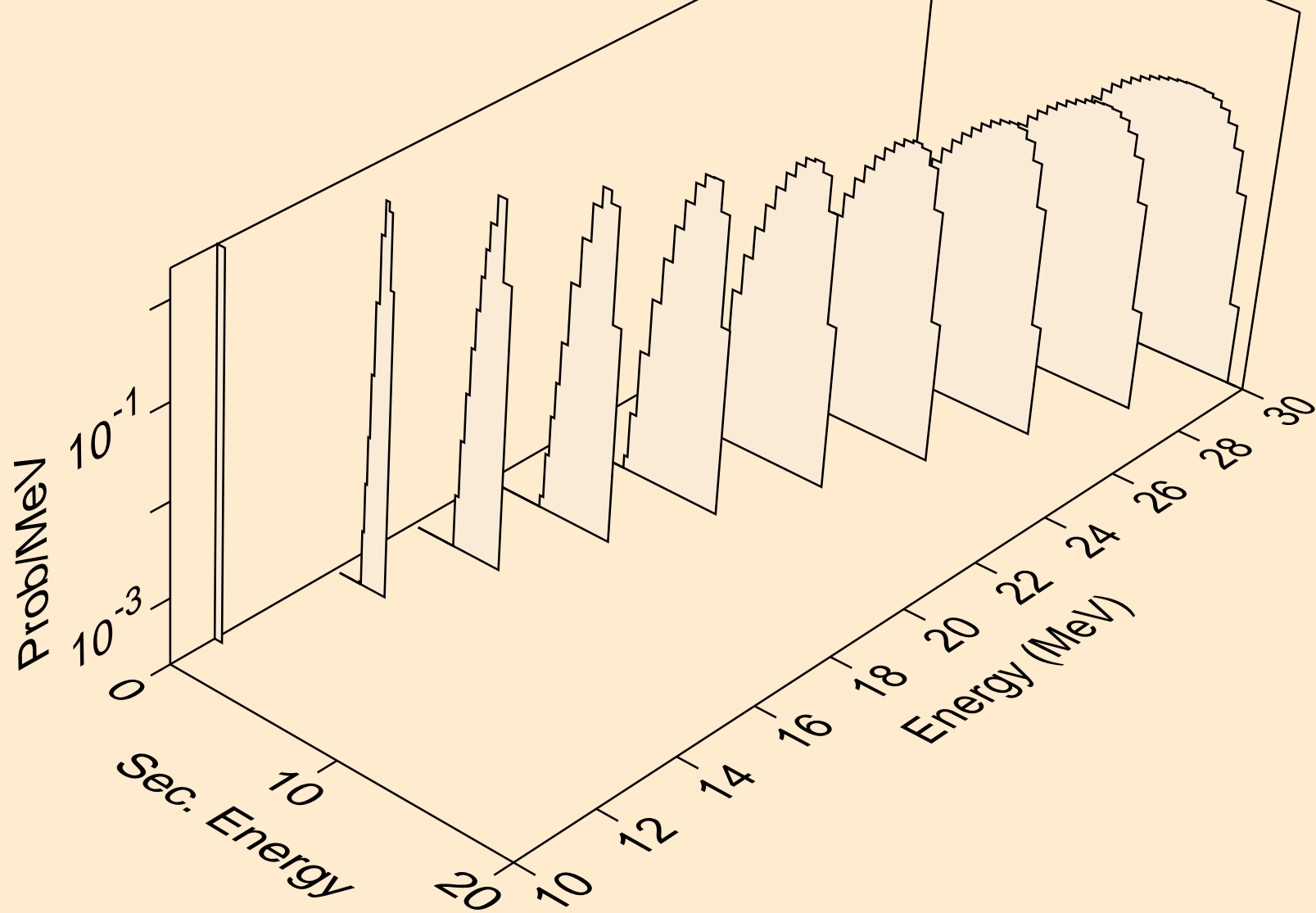




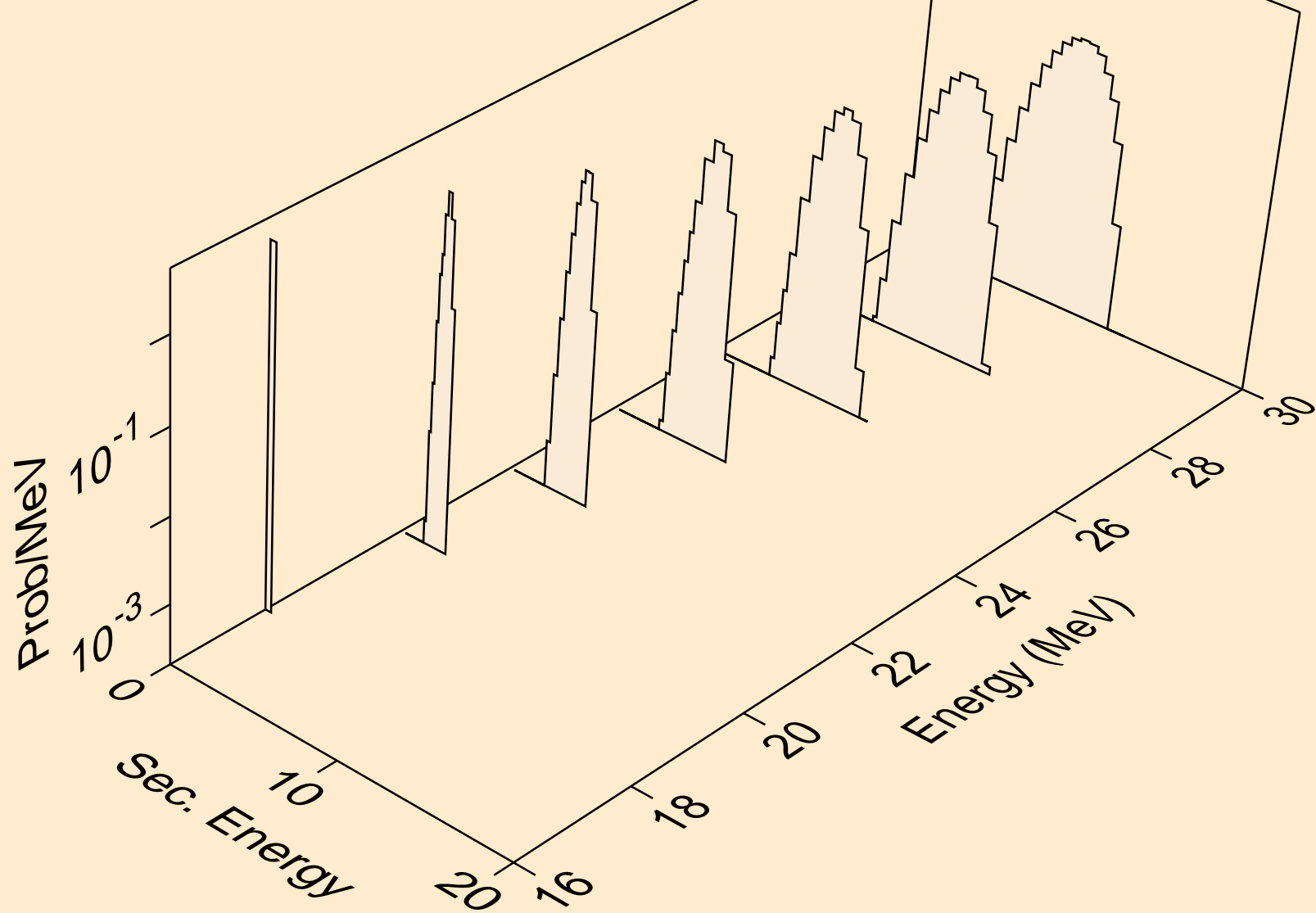
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,n\*)p



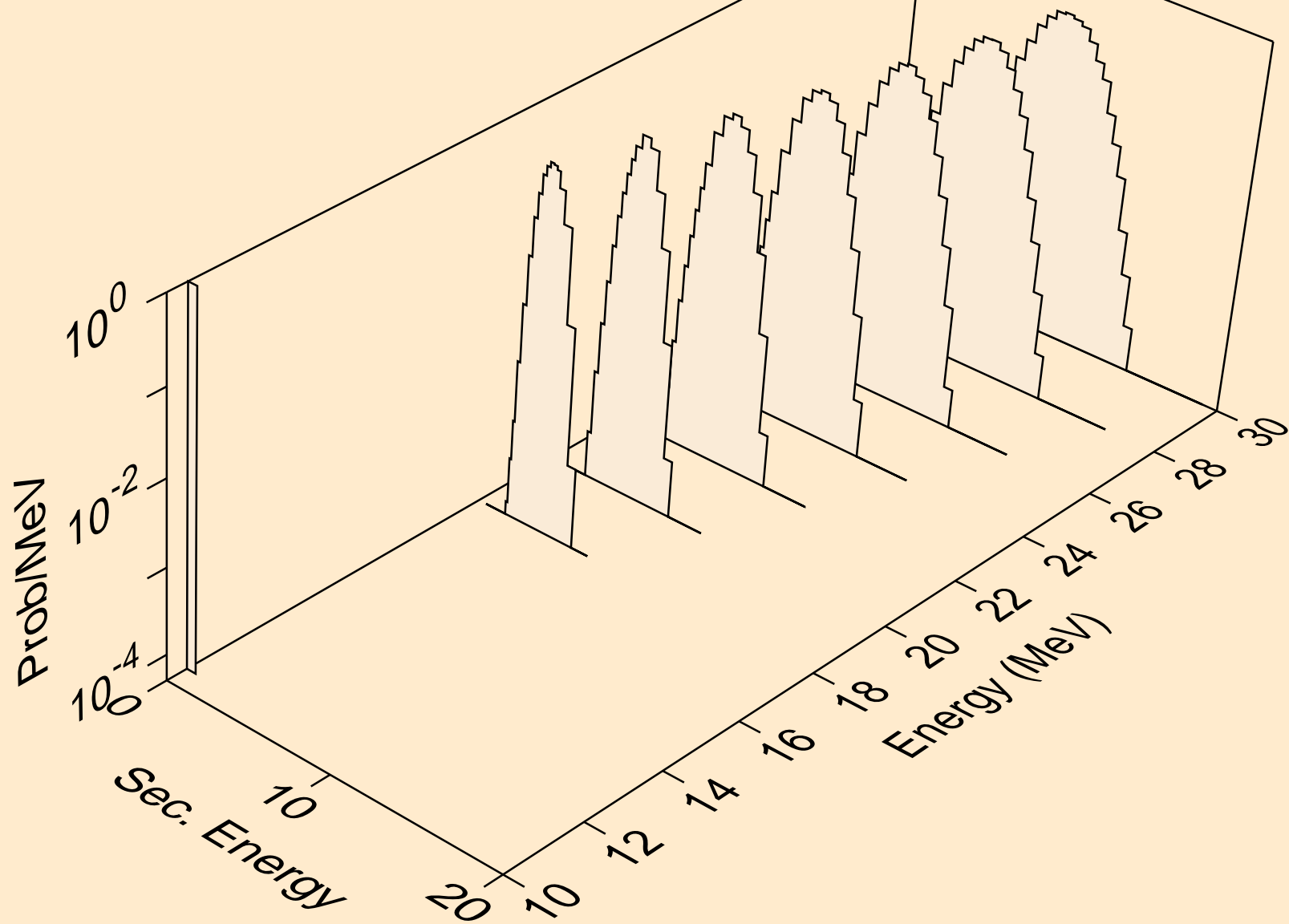
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protons from (n,2np)



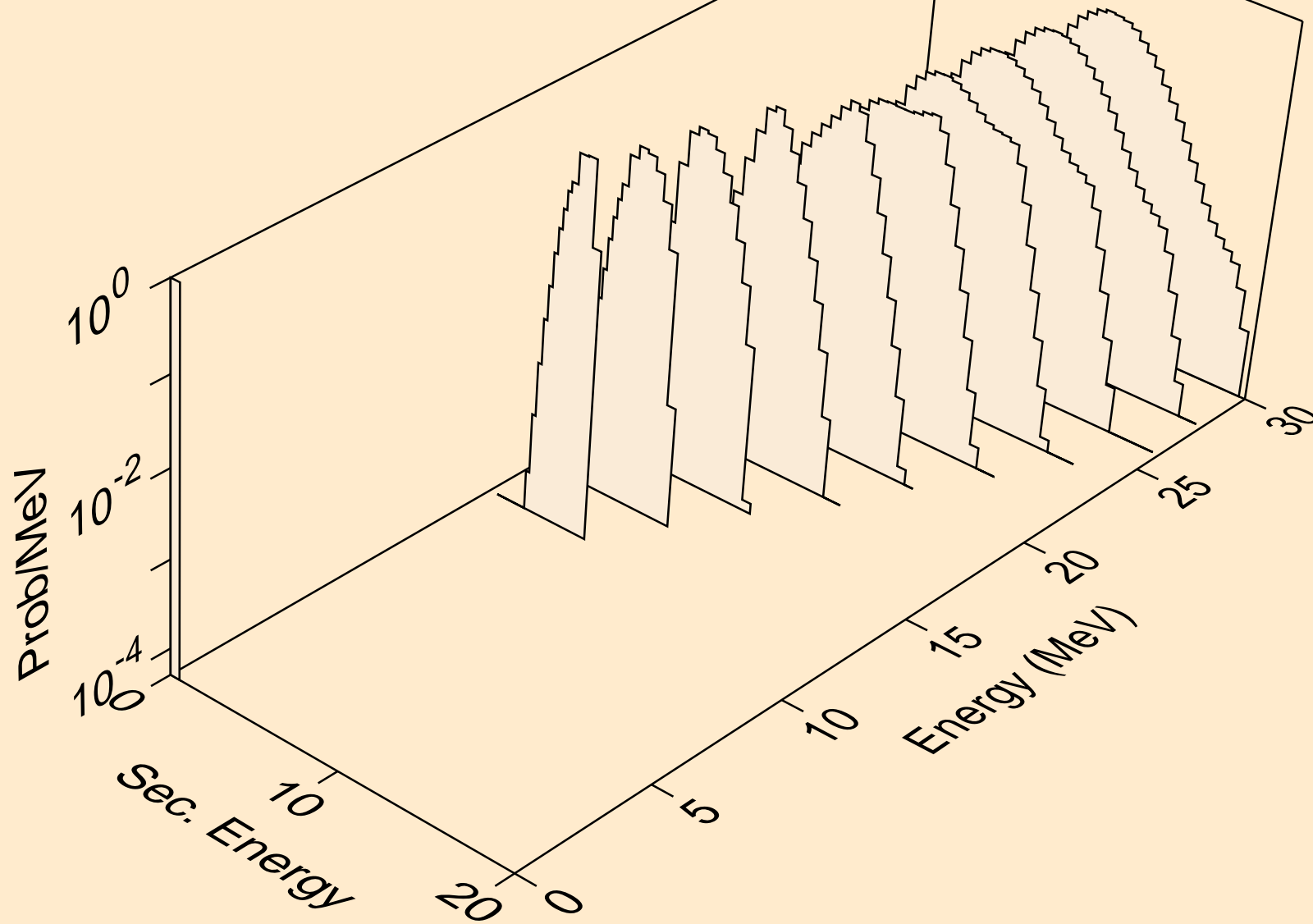
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protons from (n,3np)



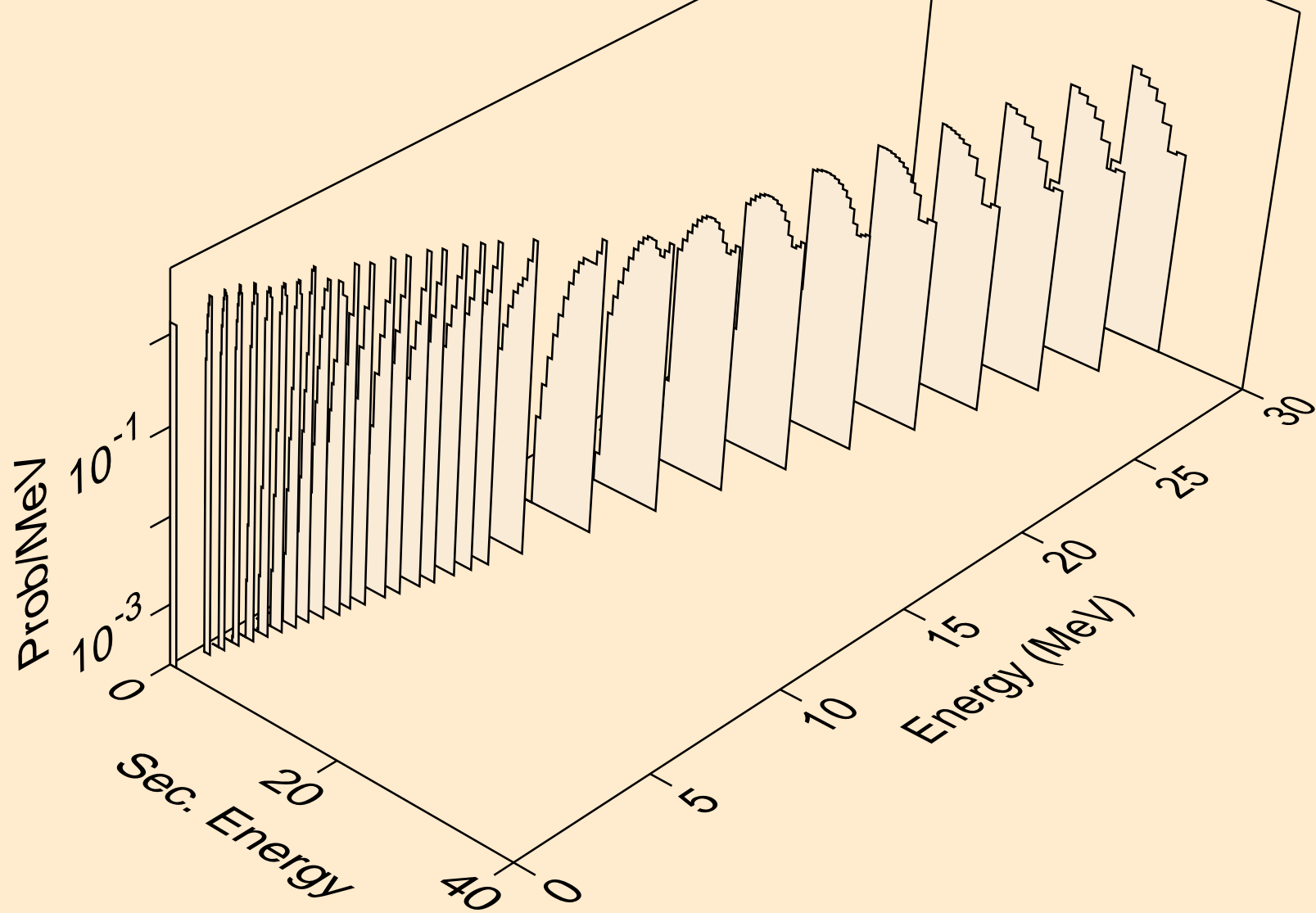
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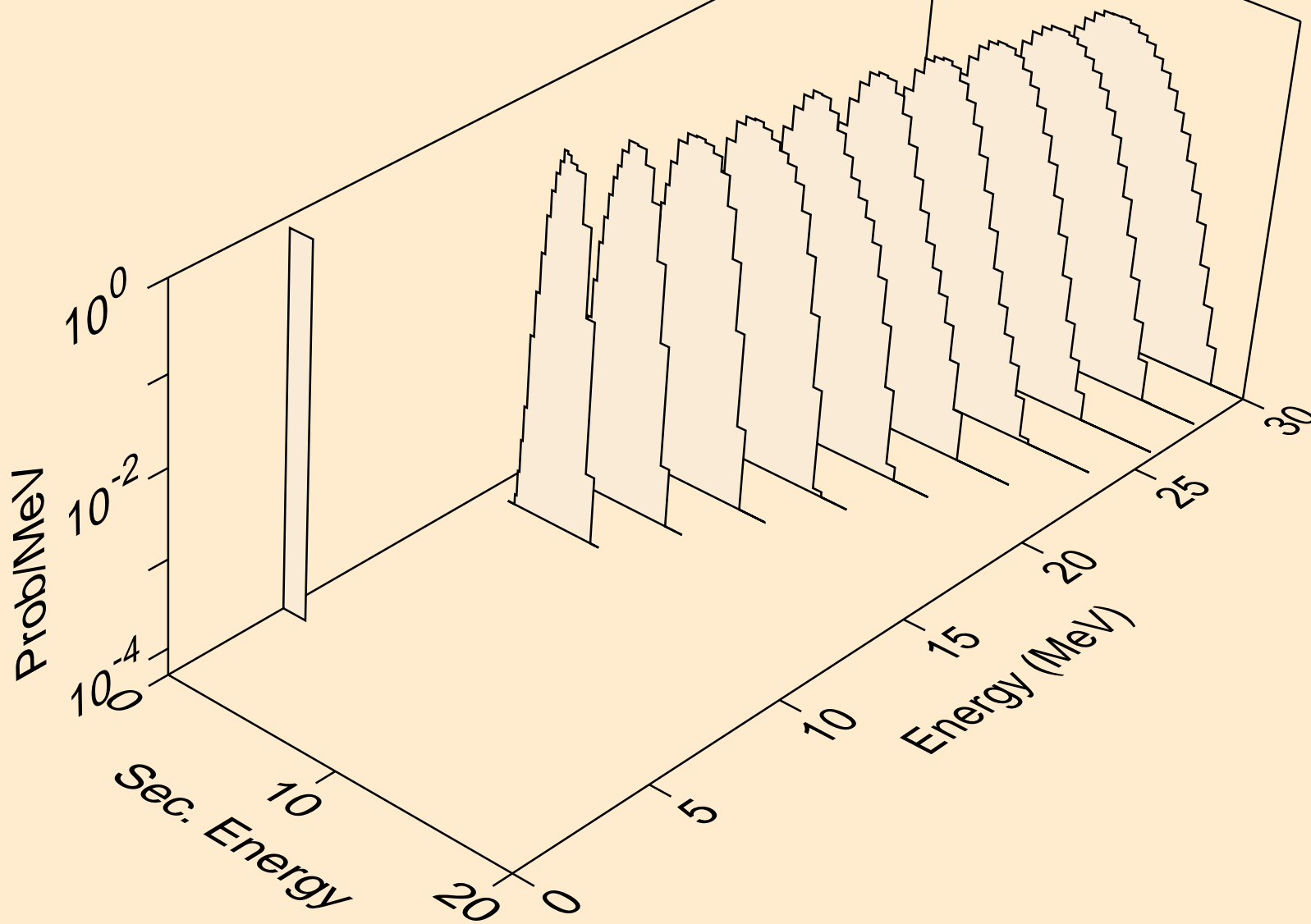
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protons from (n,npa)



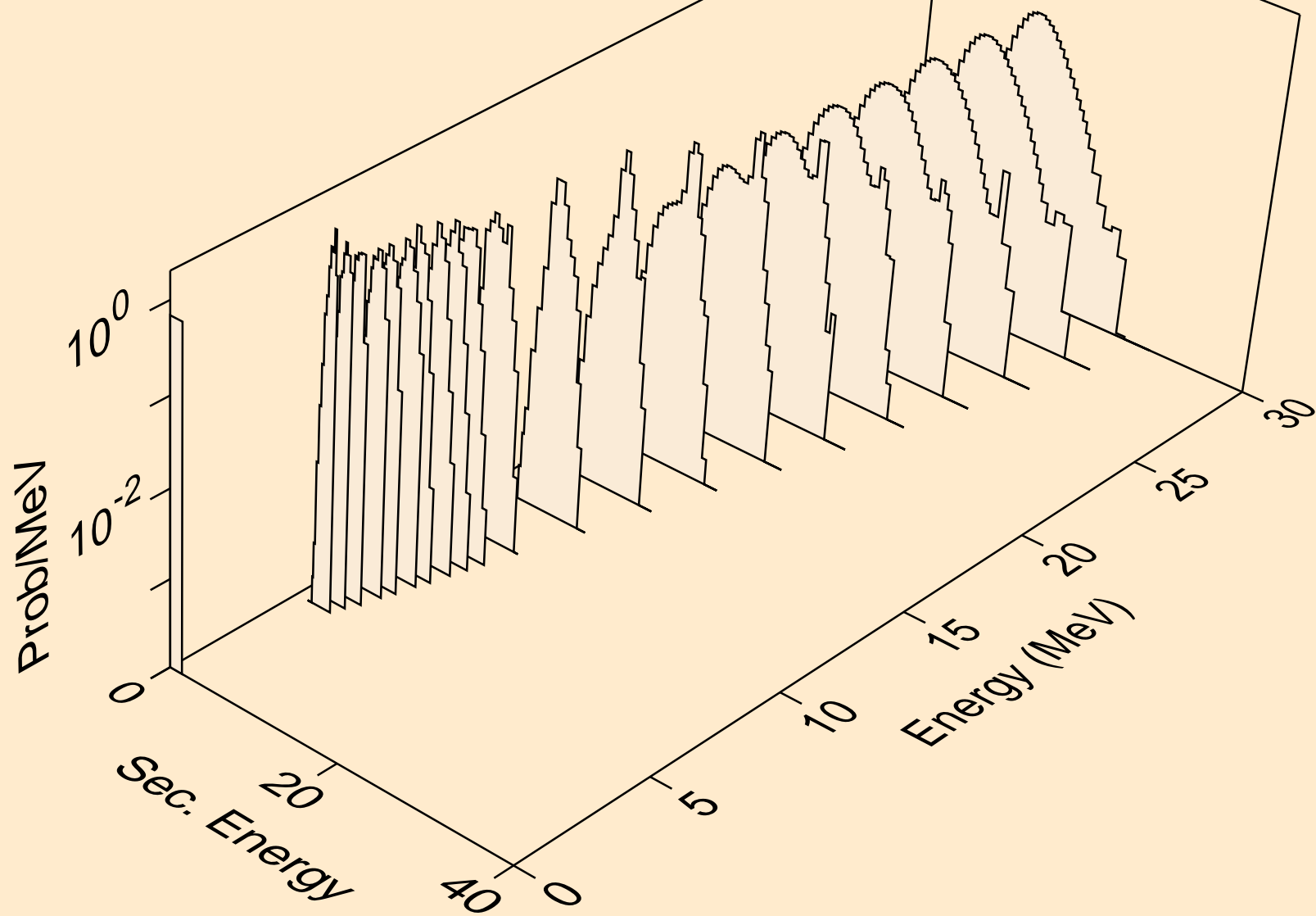
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2p)

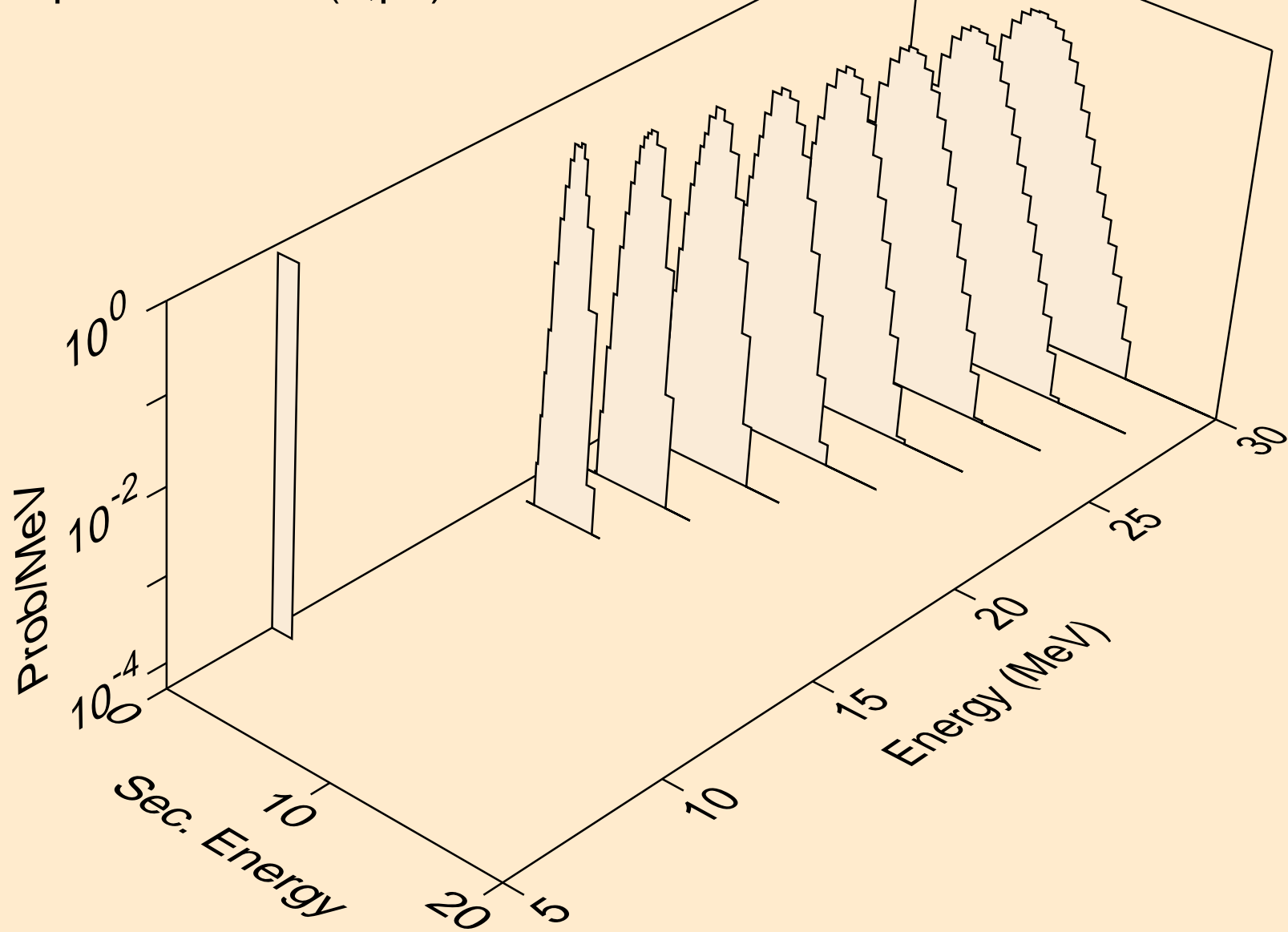


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

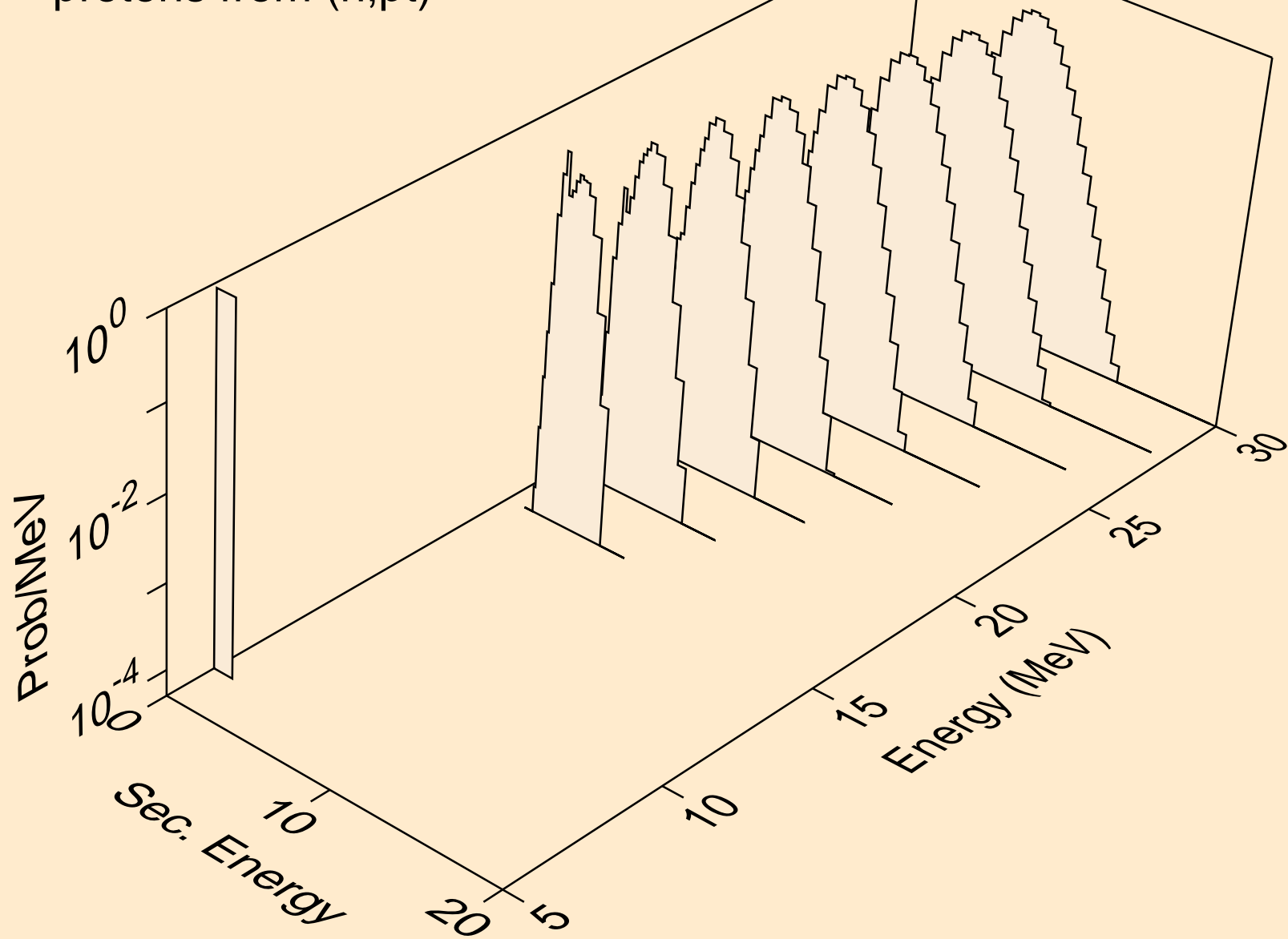




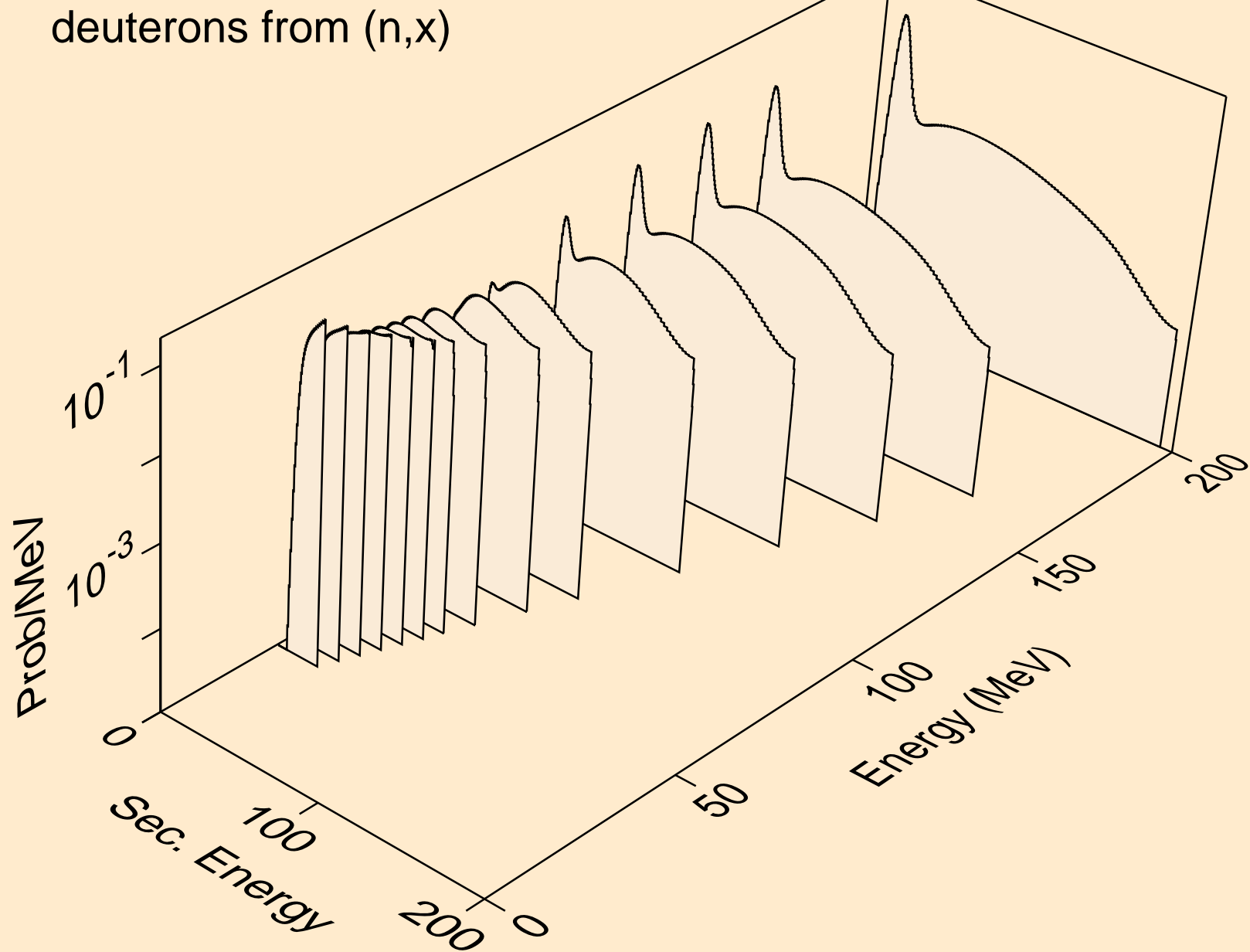
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protons from (n,pd)



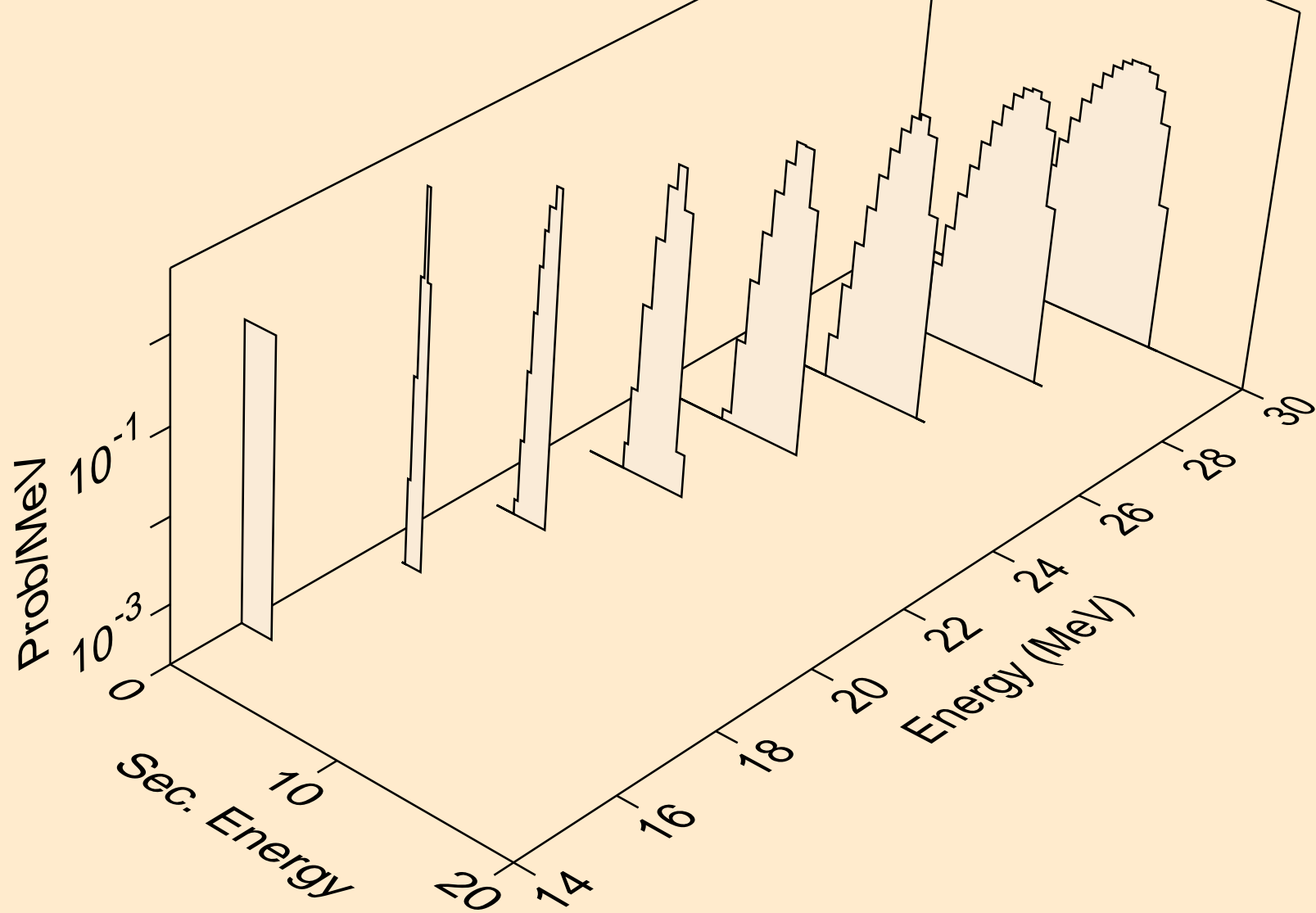
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protons from (n,pt)



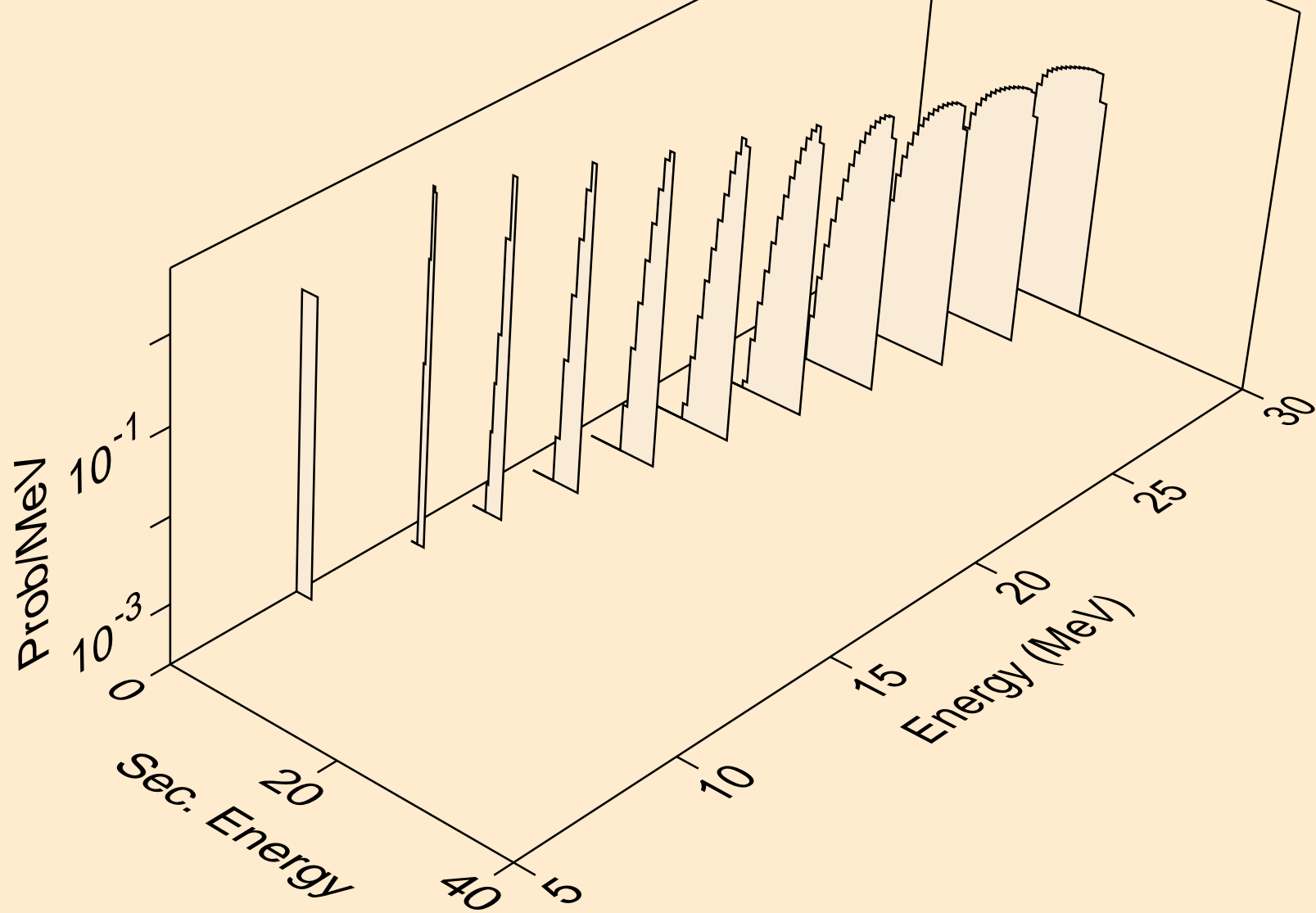
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)



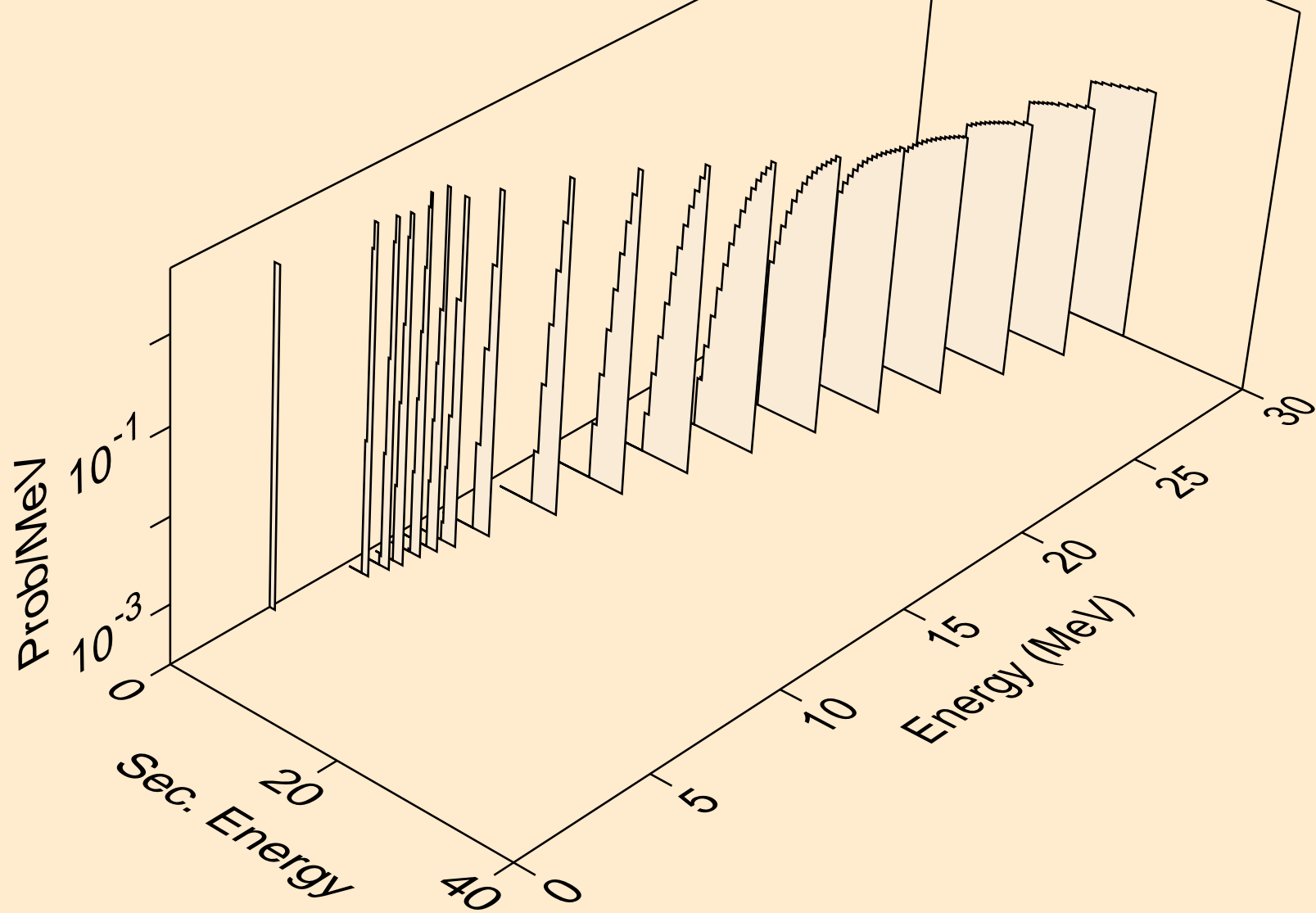
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deuterons from (n,2nd)



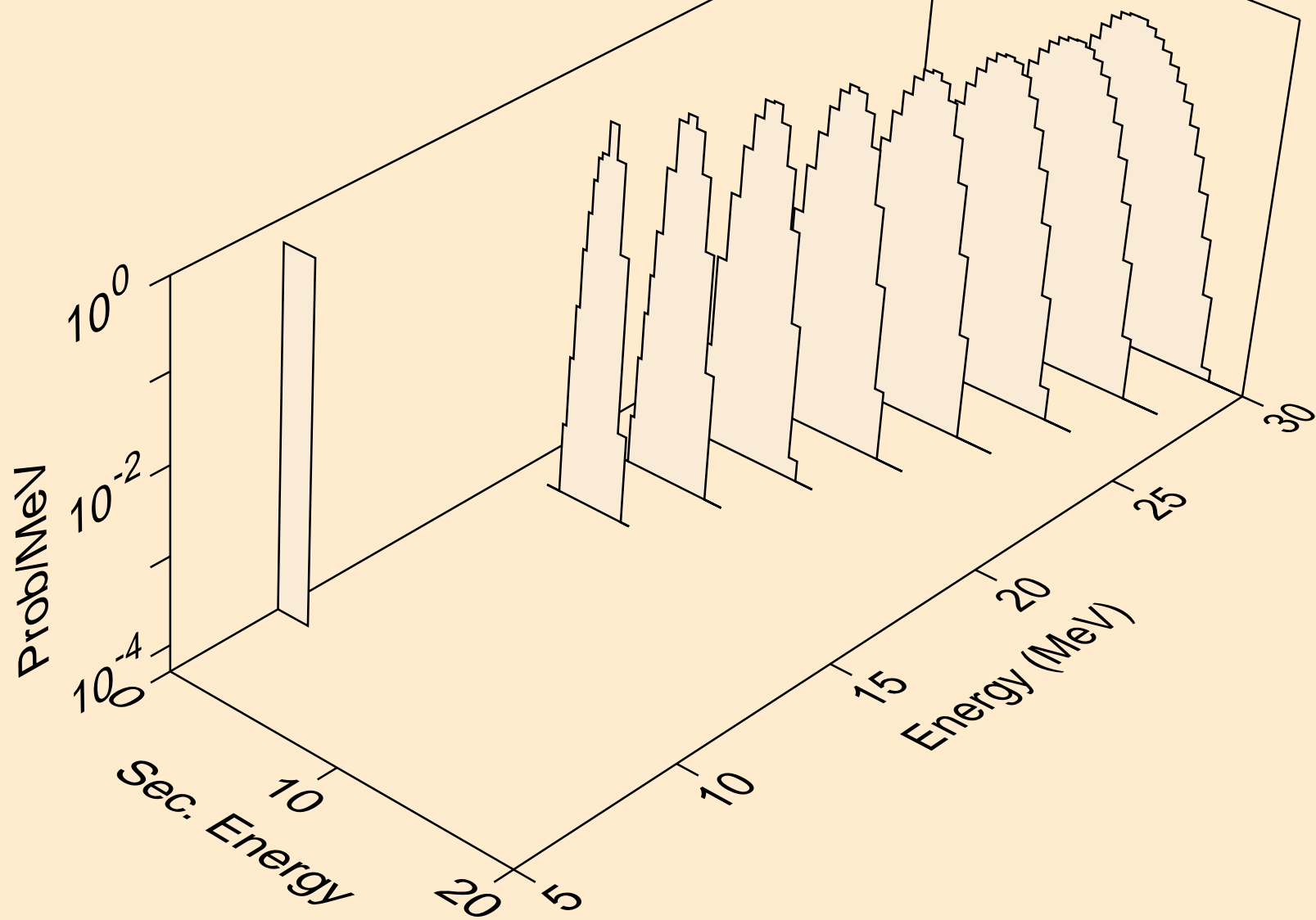
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deuterons from (n,n\*)d



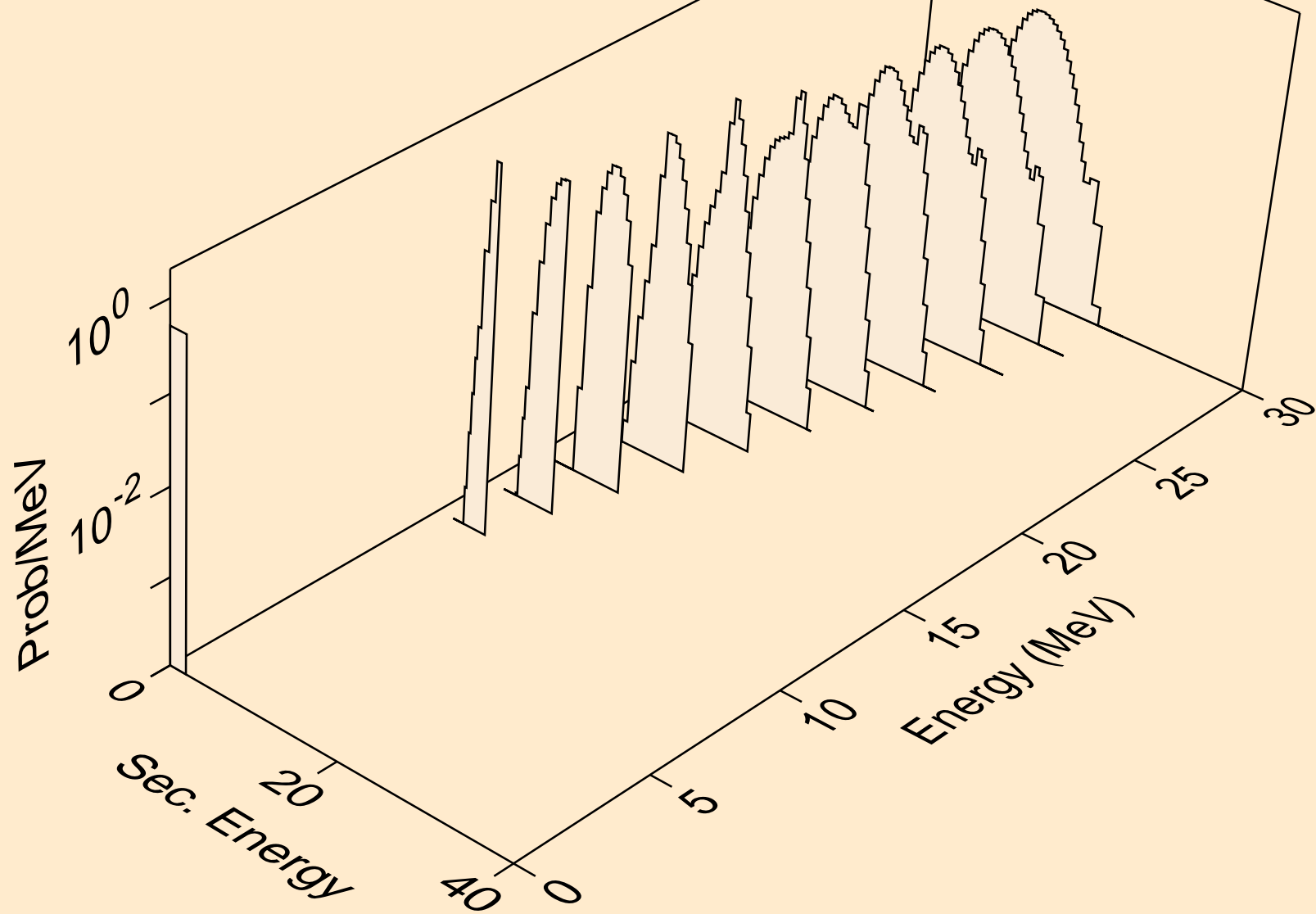
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,d)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,pd)

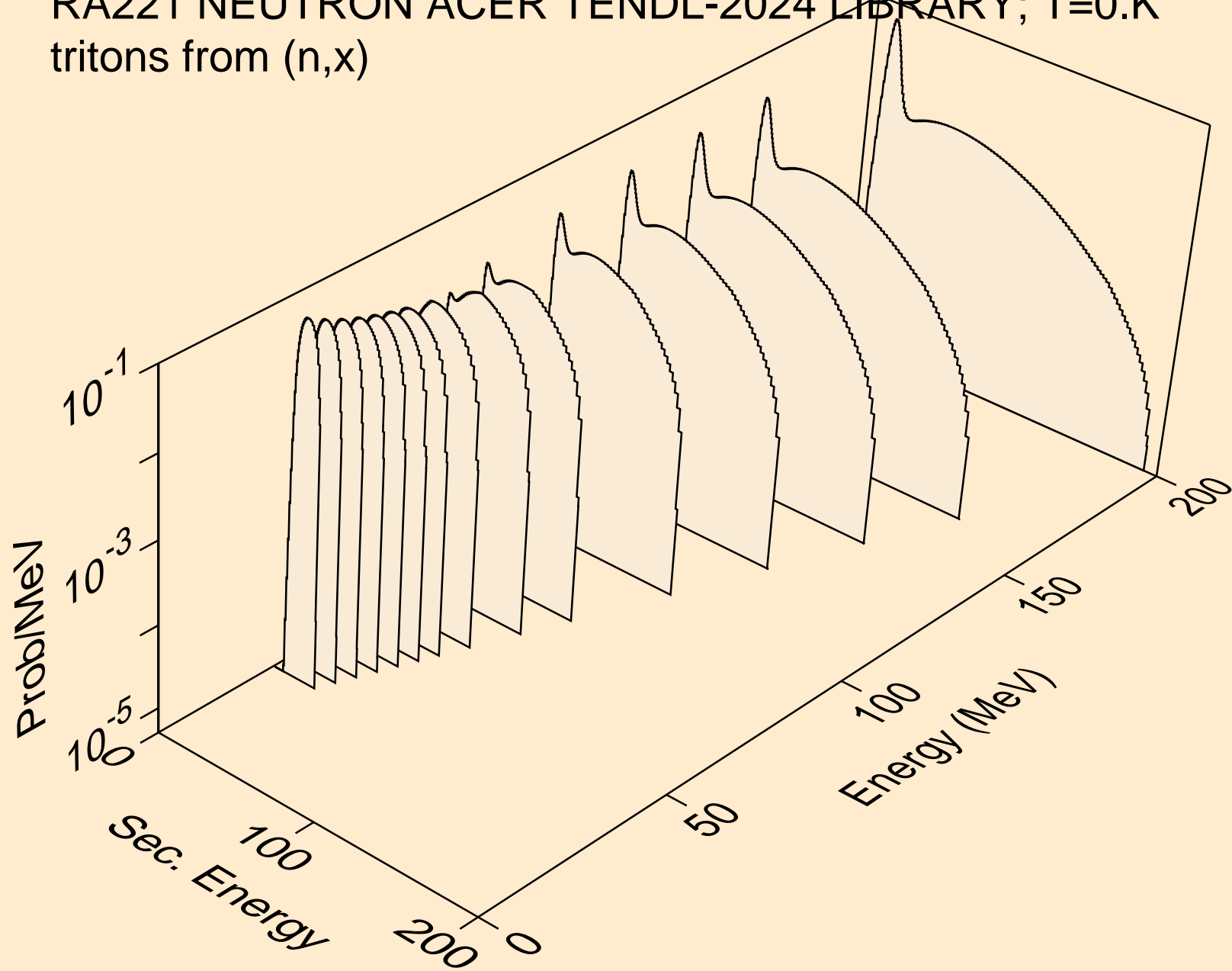


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deuterons from (n,da)

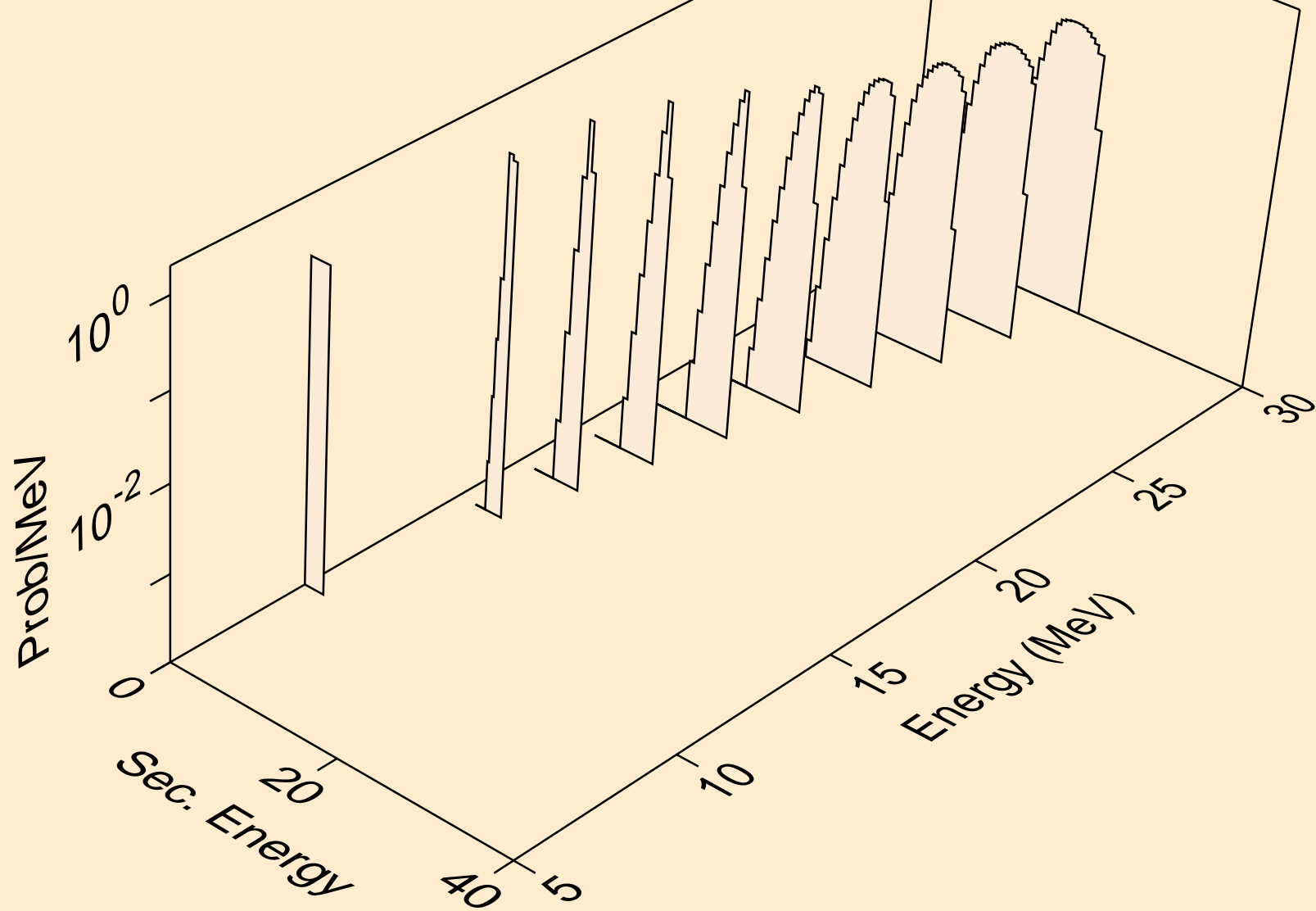




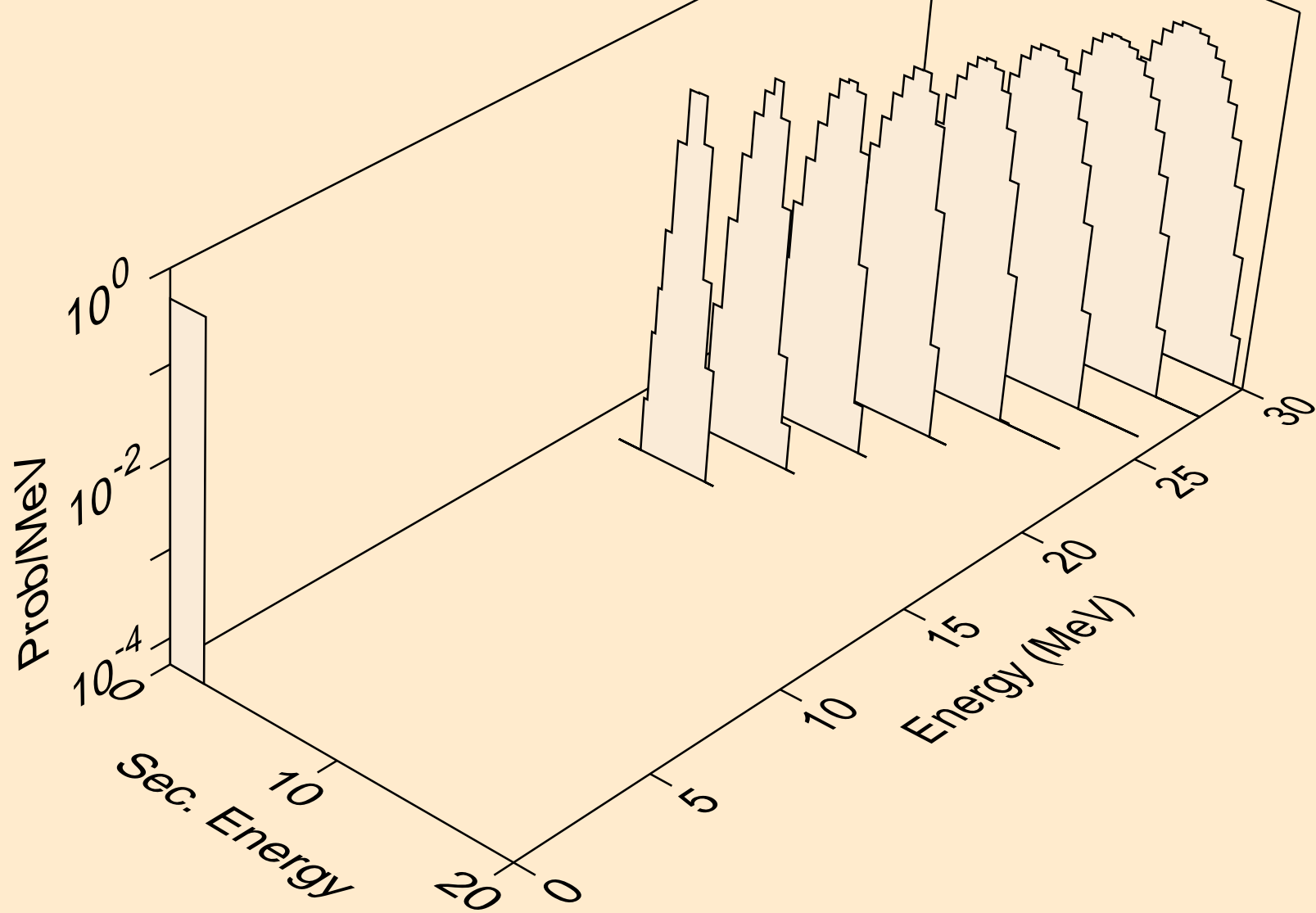
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tritons from (n,x)



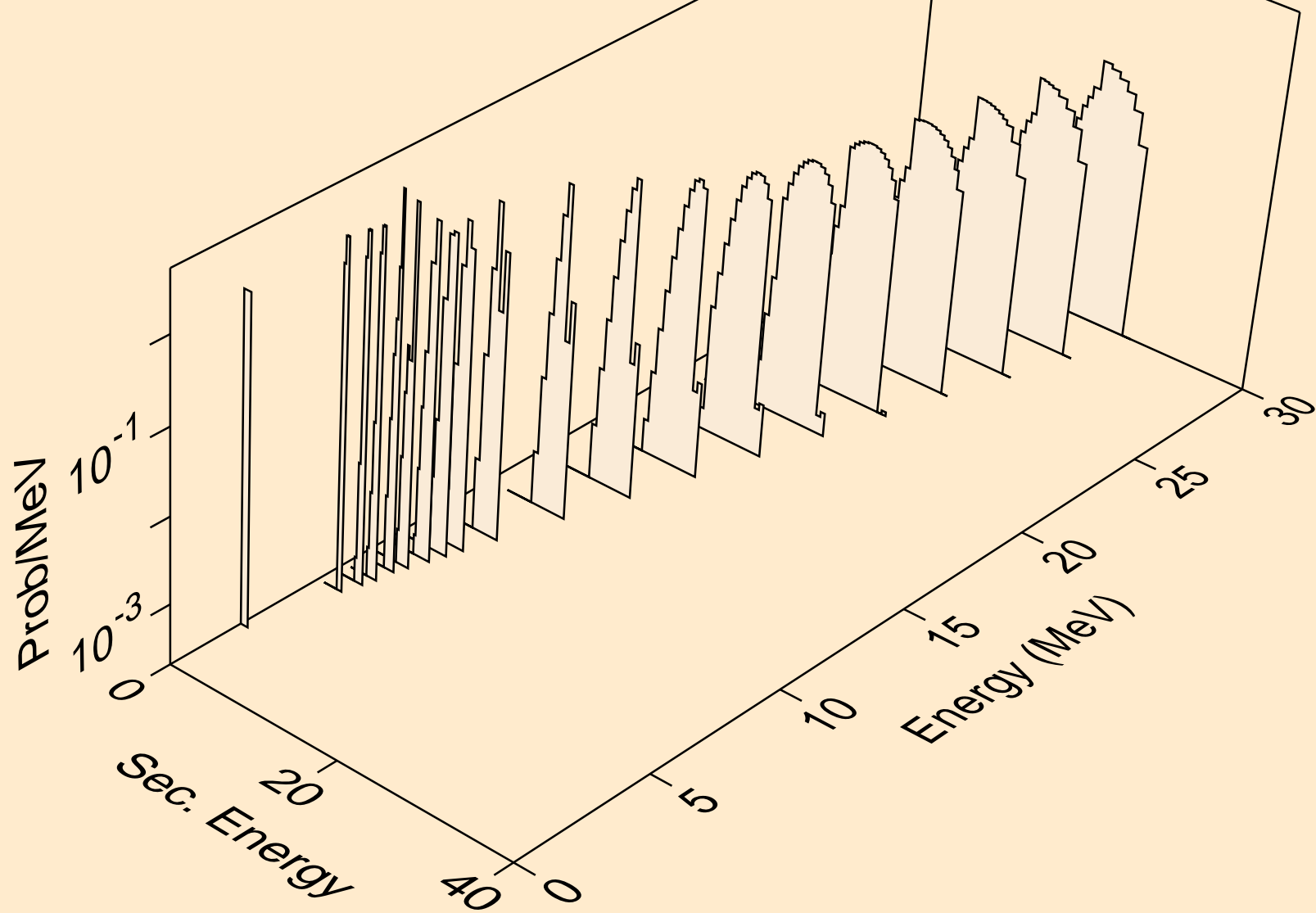
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tritons from (n,n\*)t



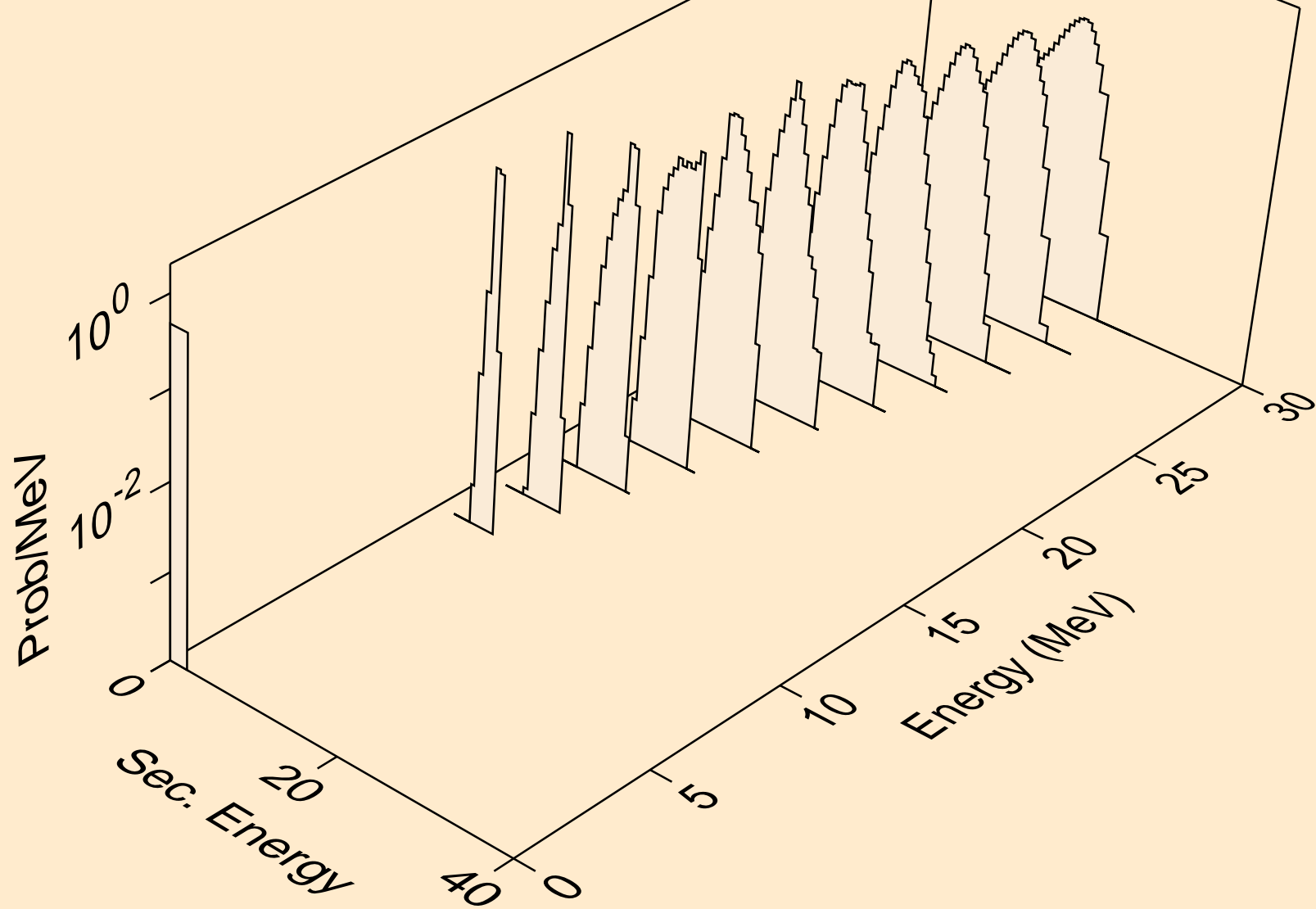
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tritons from (n,n\*)t2a



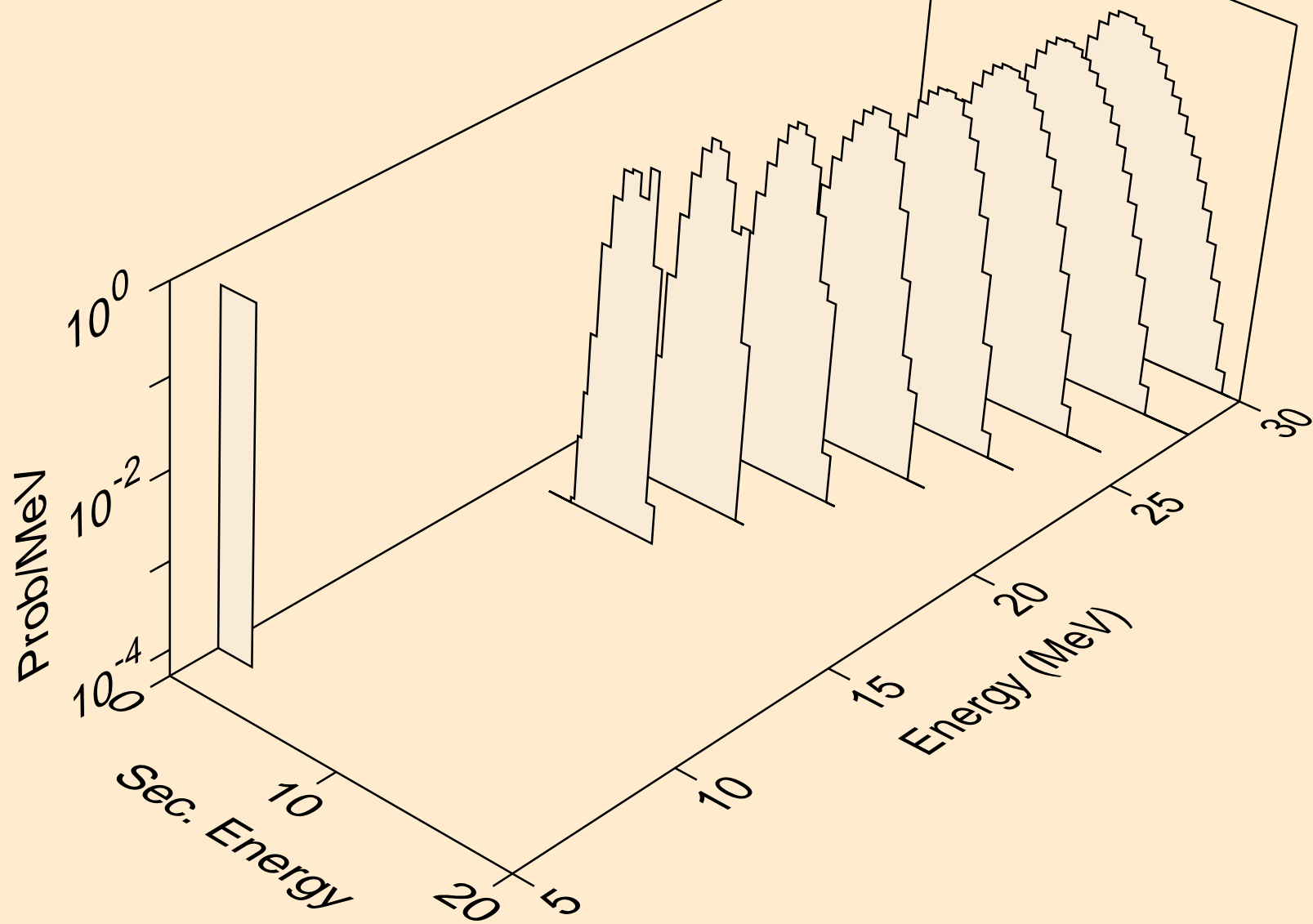
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tritons from (n,t)



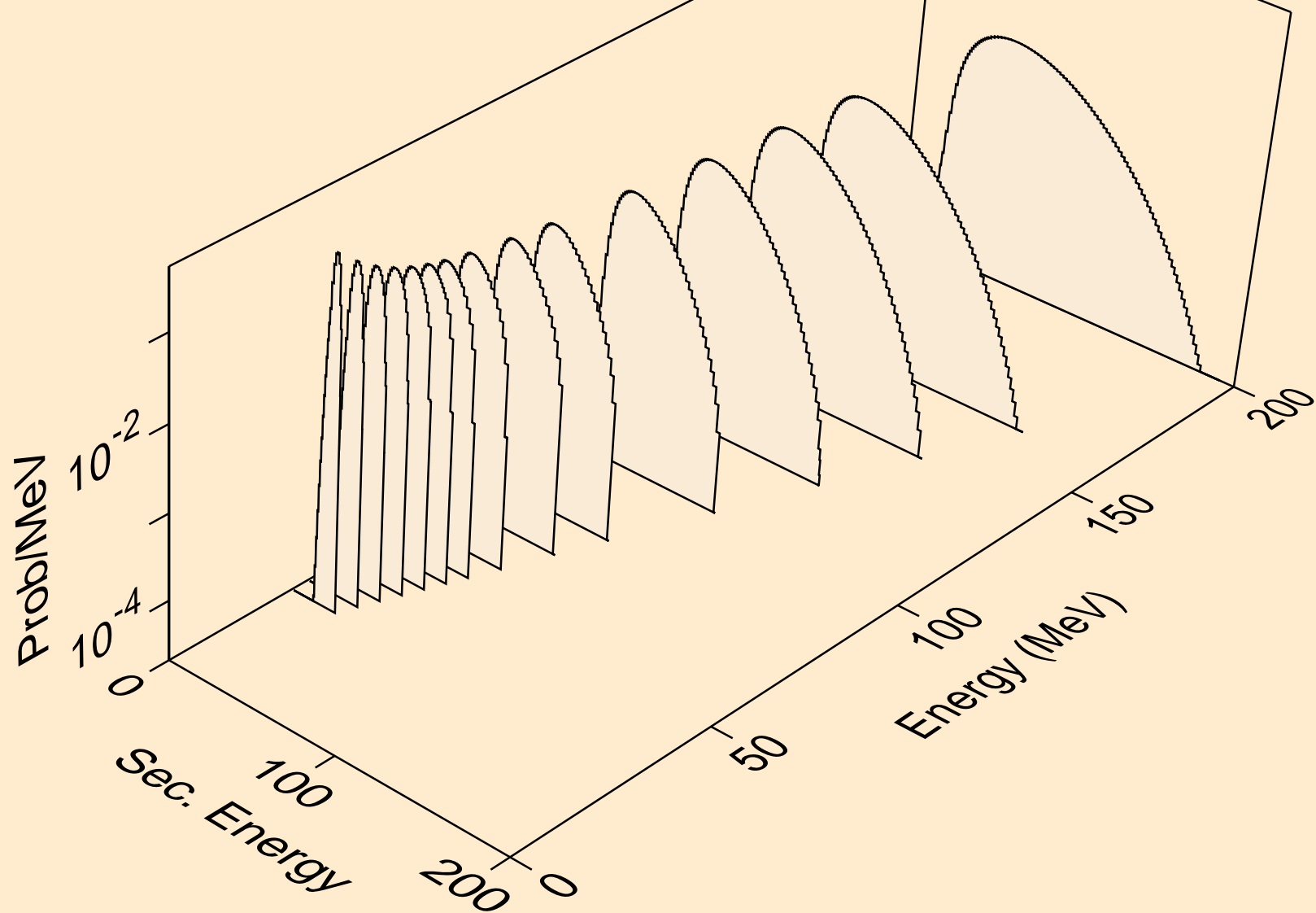
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tritons from (n,t2a)



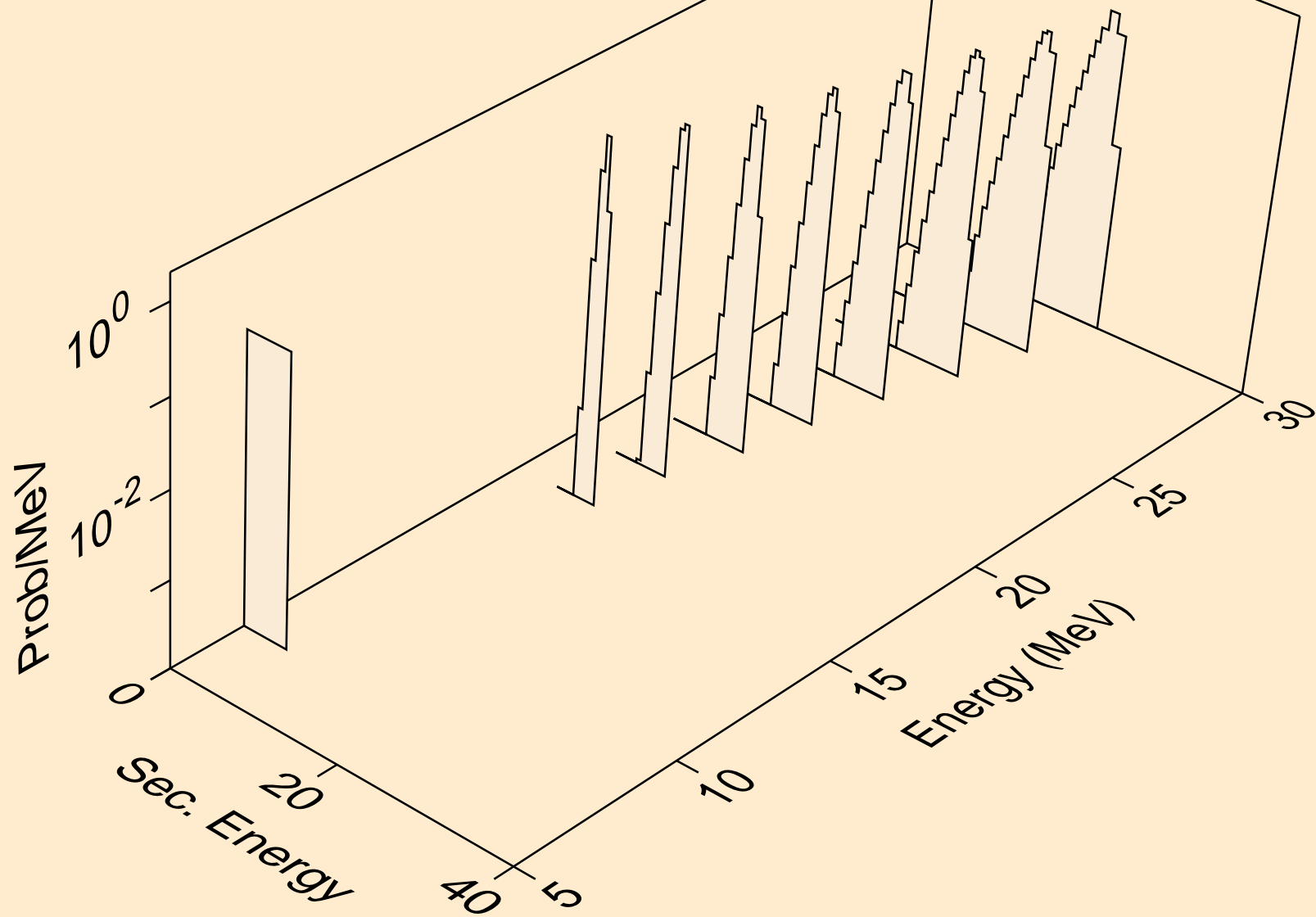
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,pt)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)

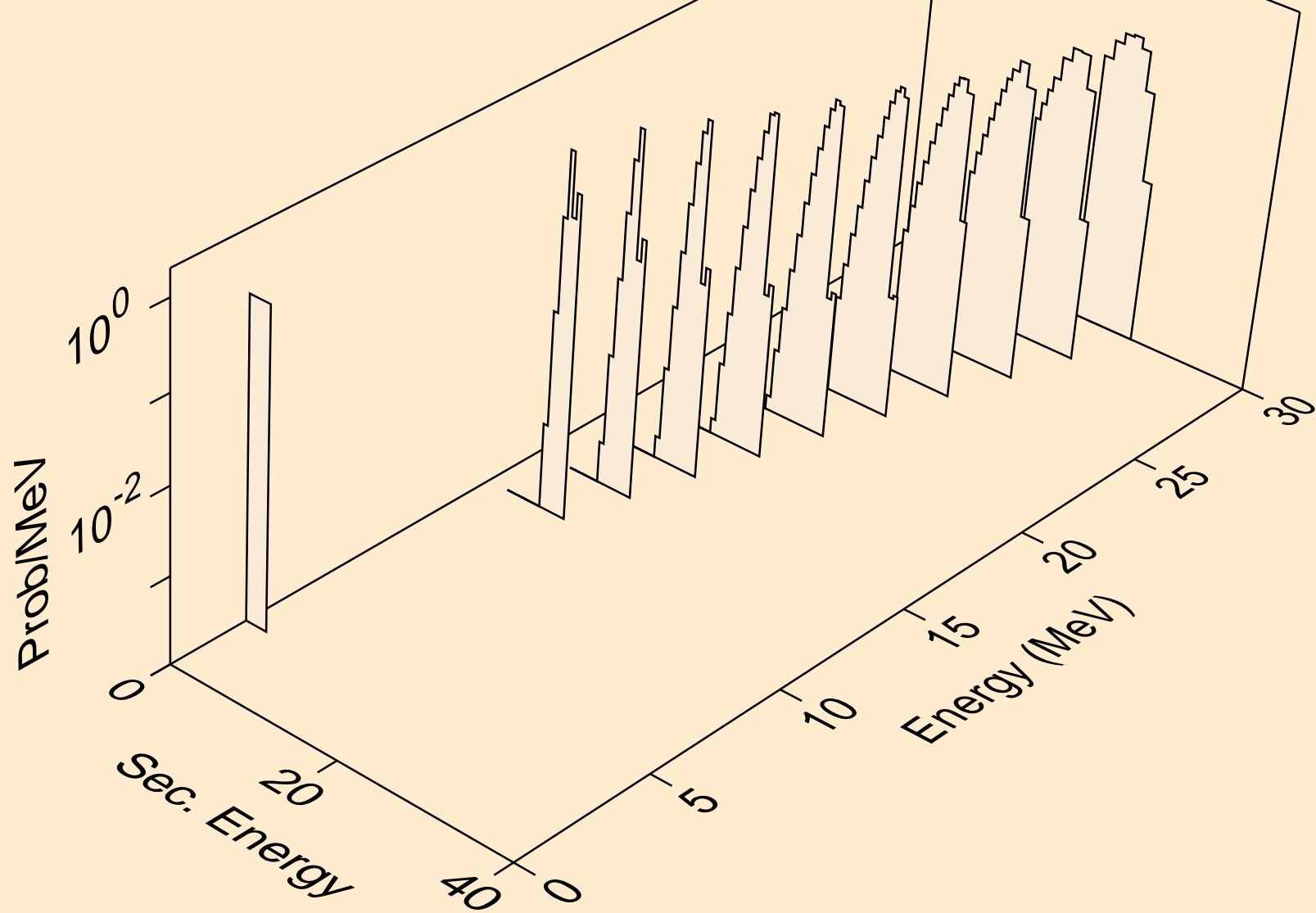


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3

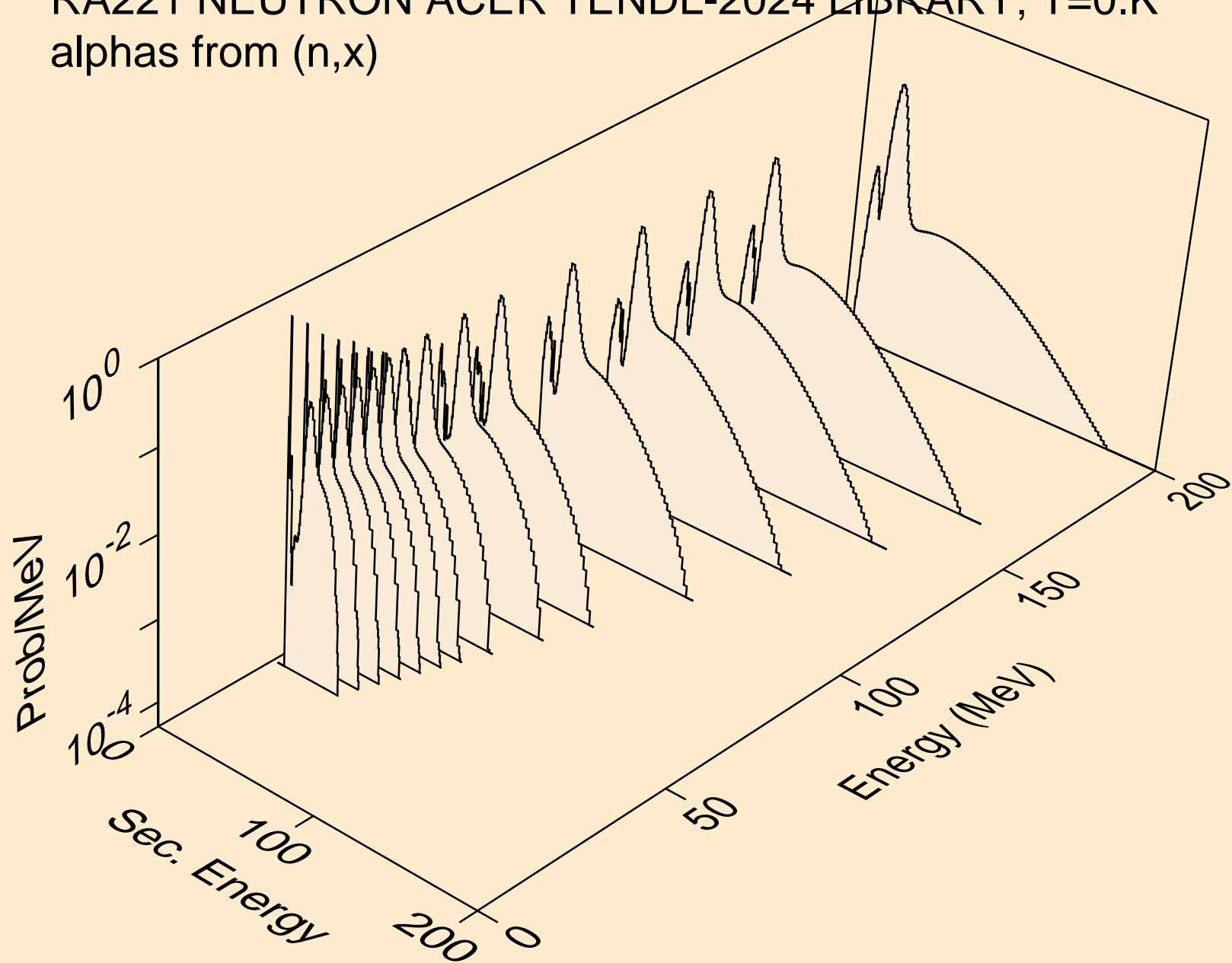




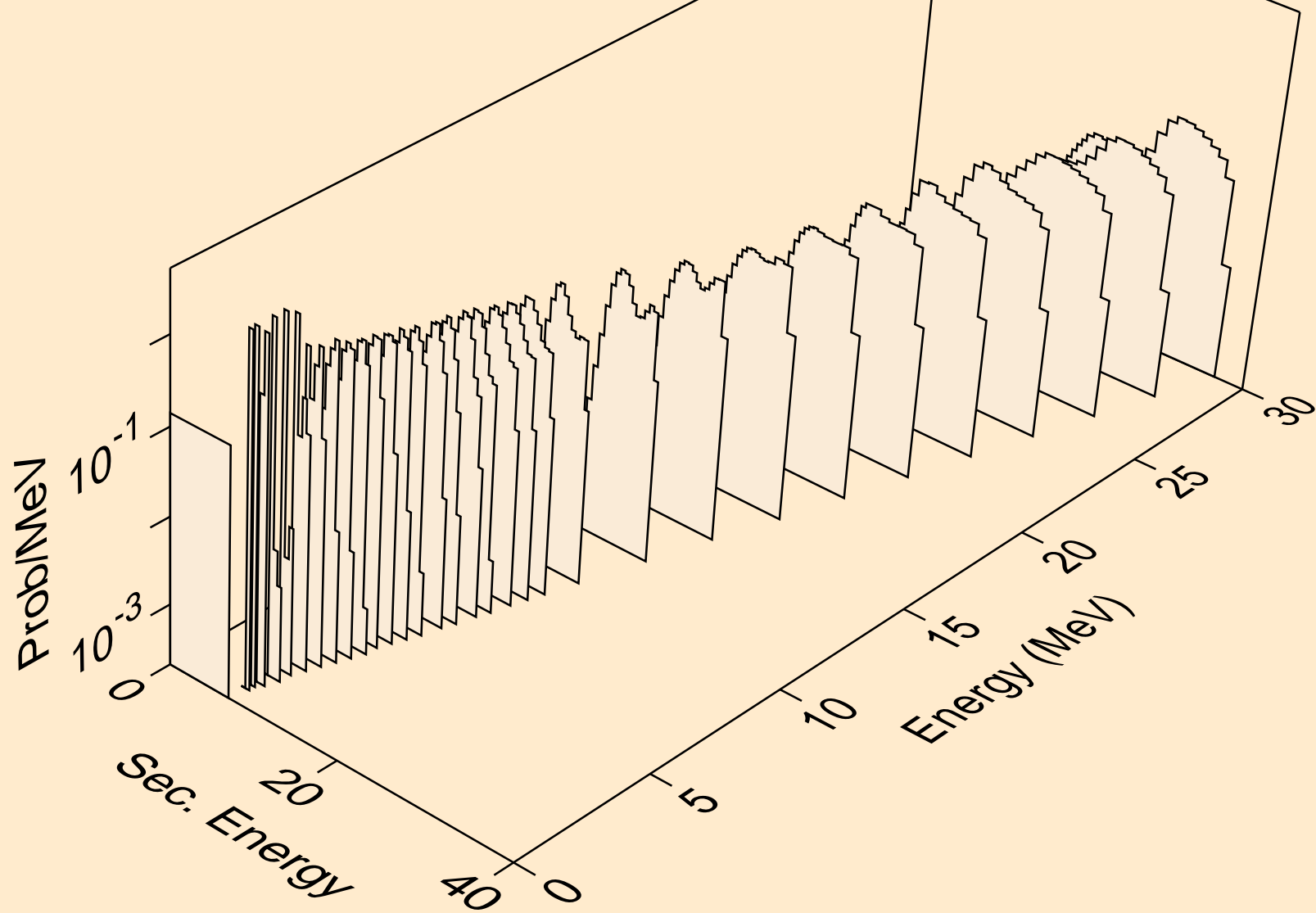
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,he3)



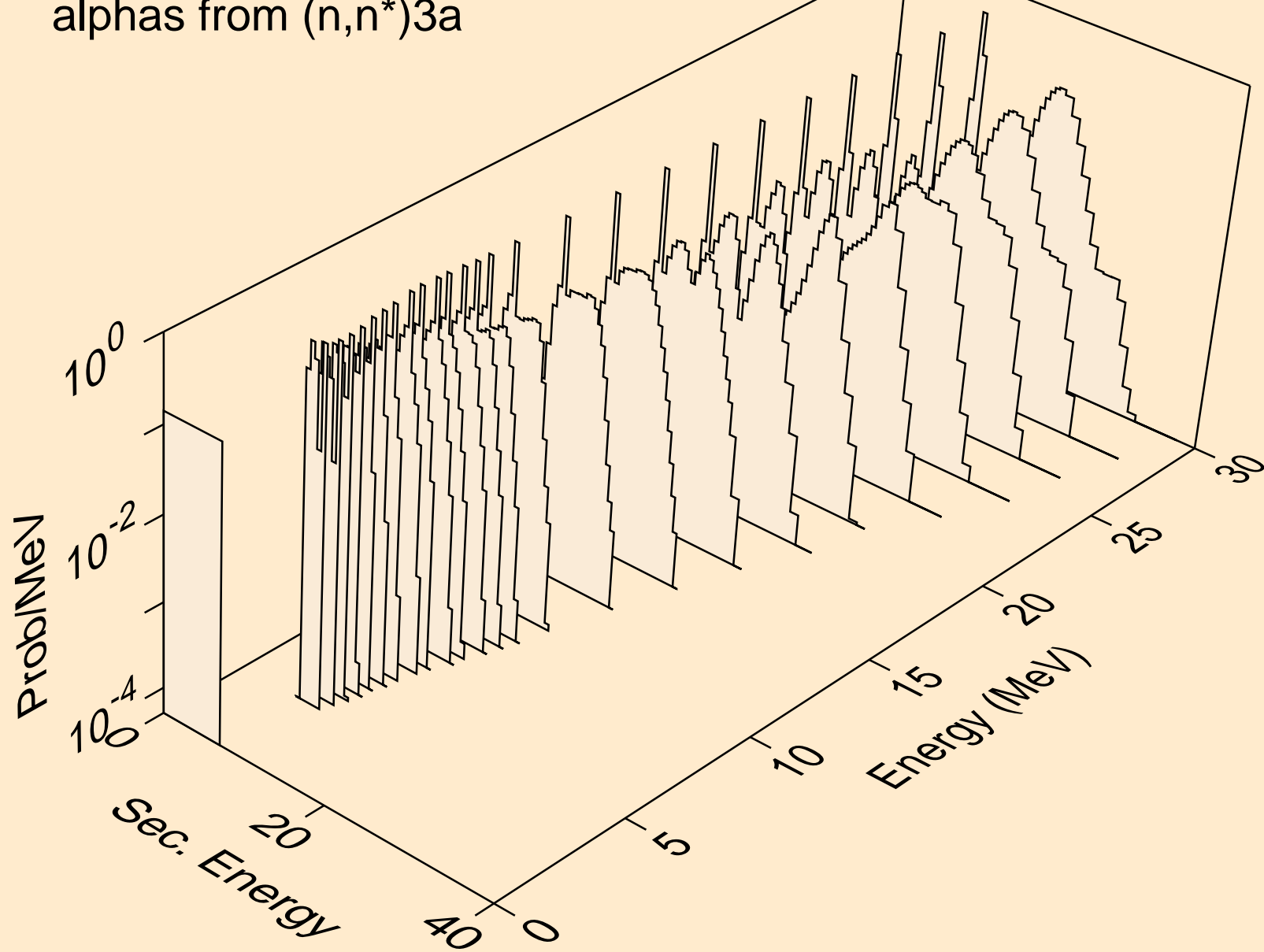
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



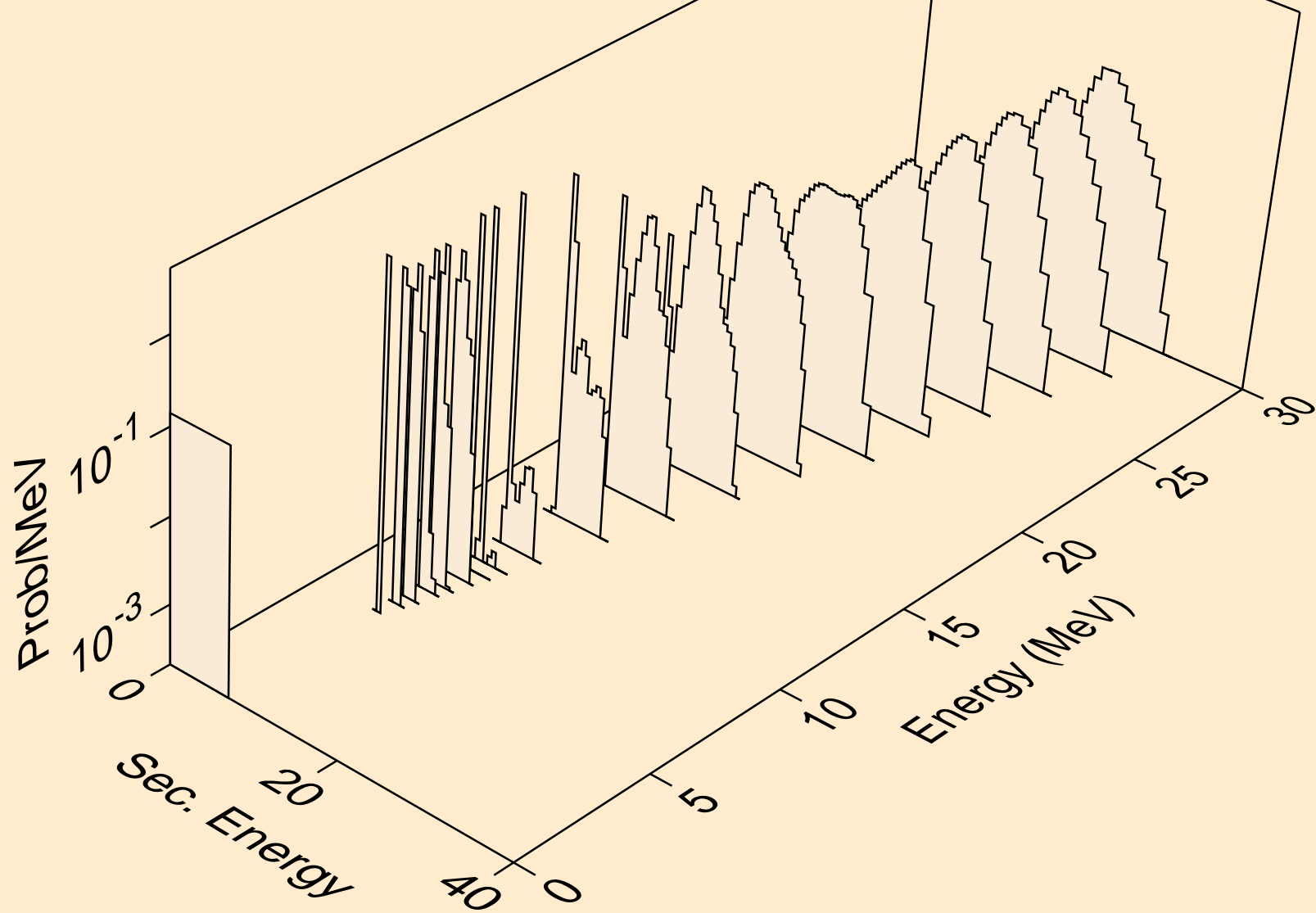
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



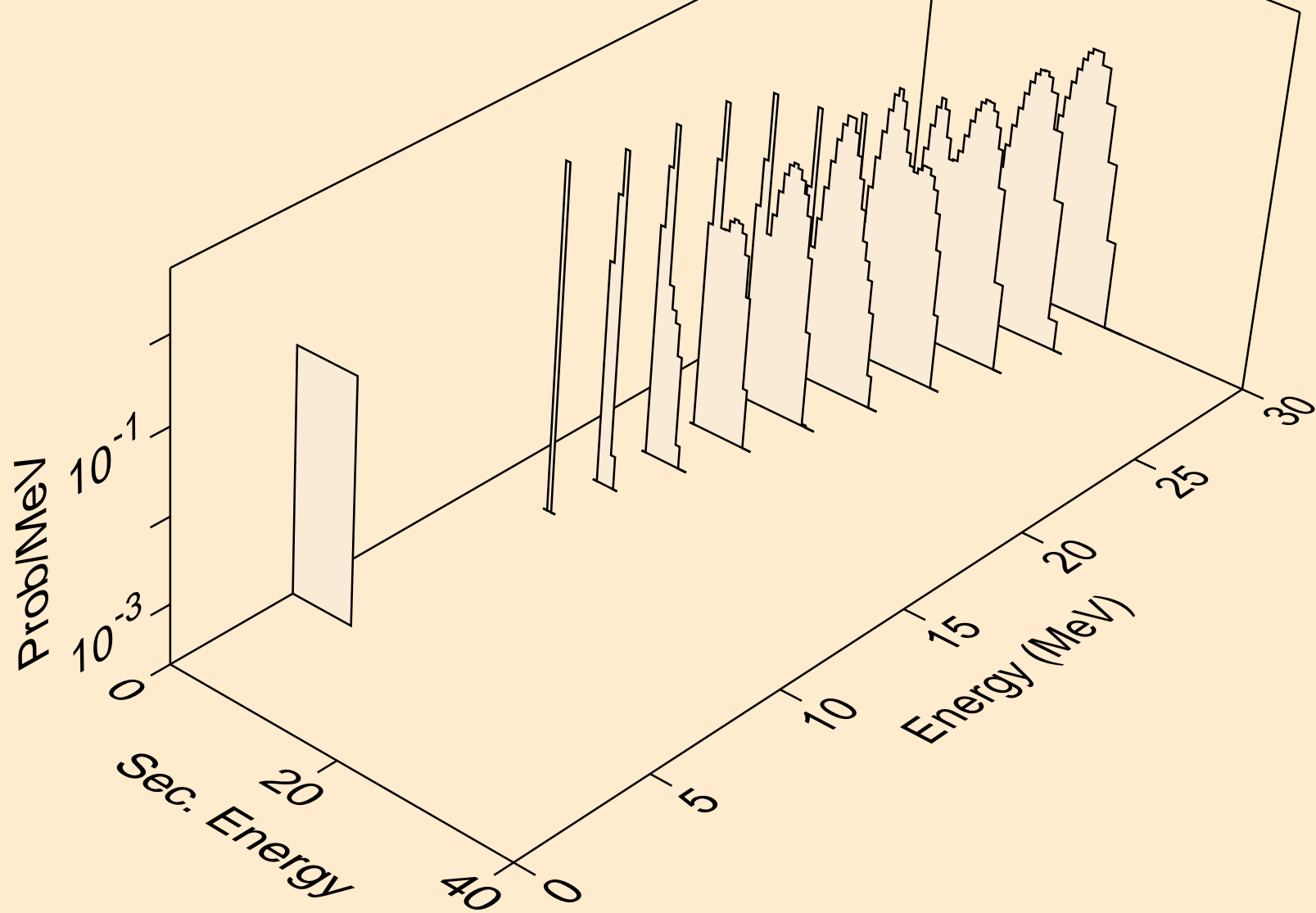
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)3a



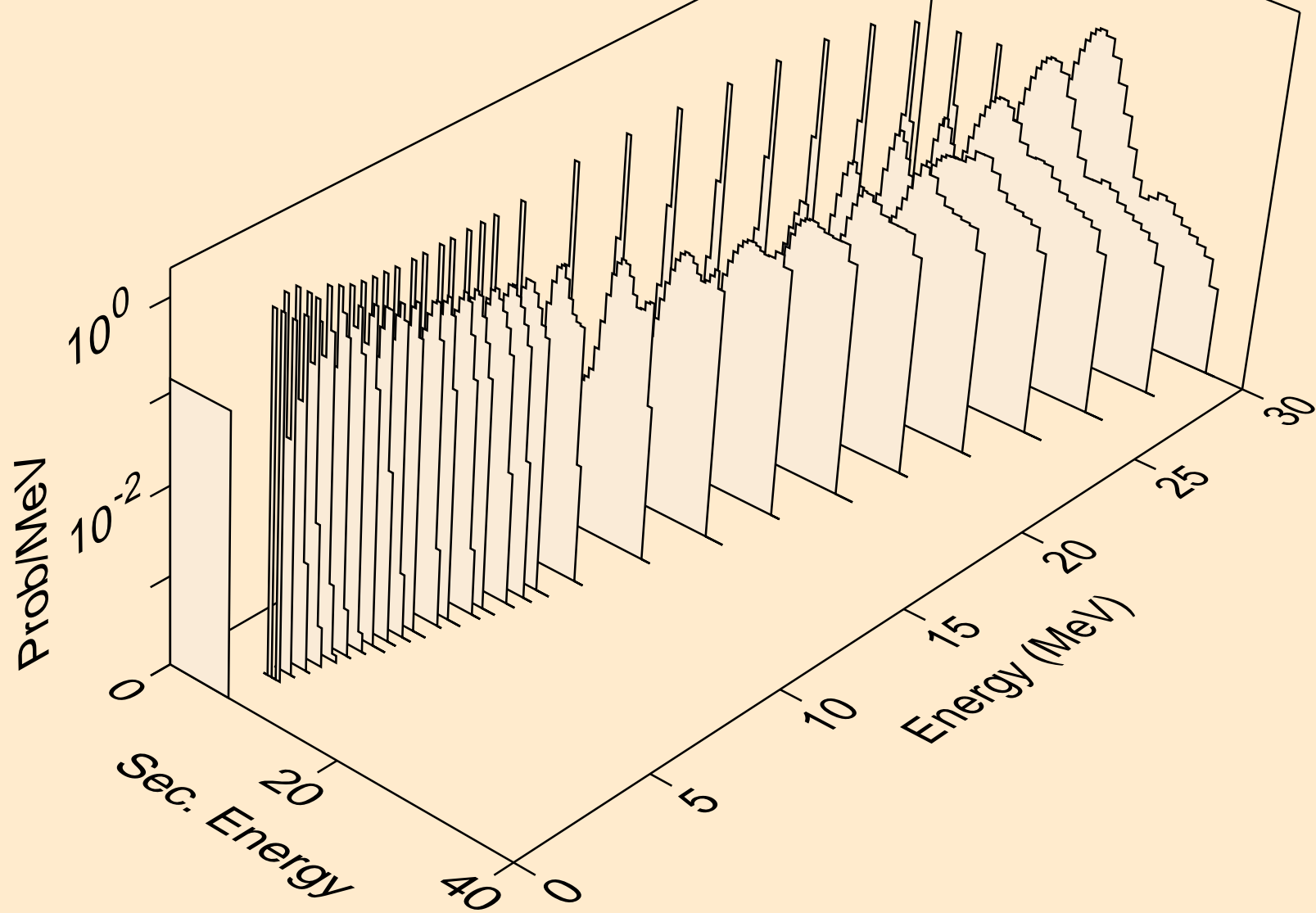
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



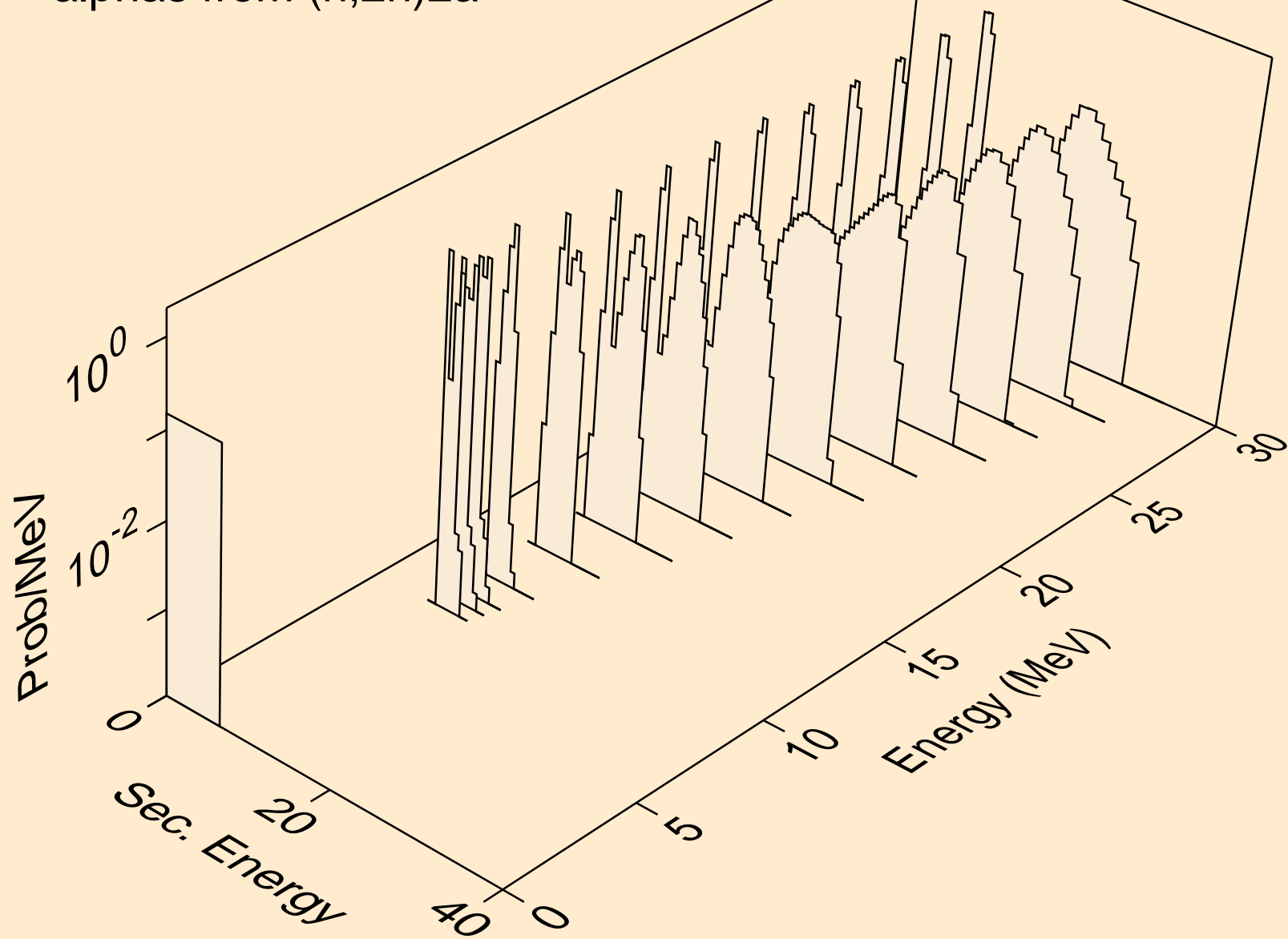
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a

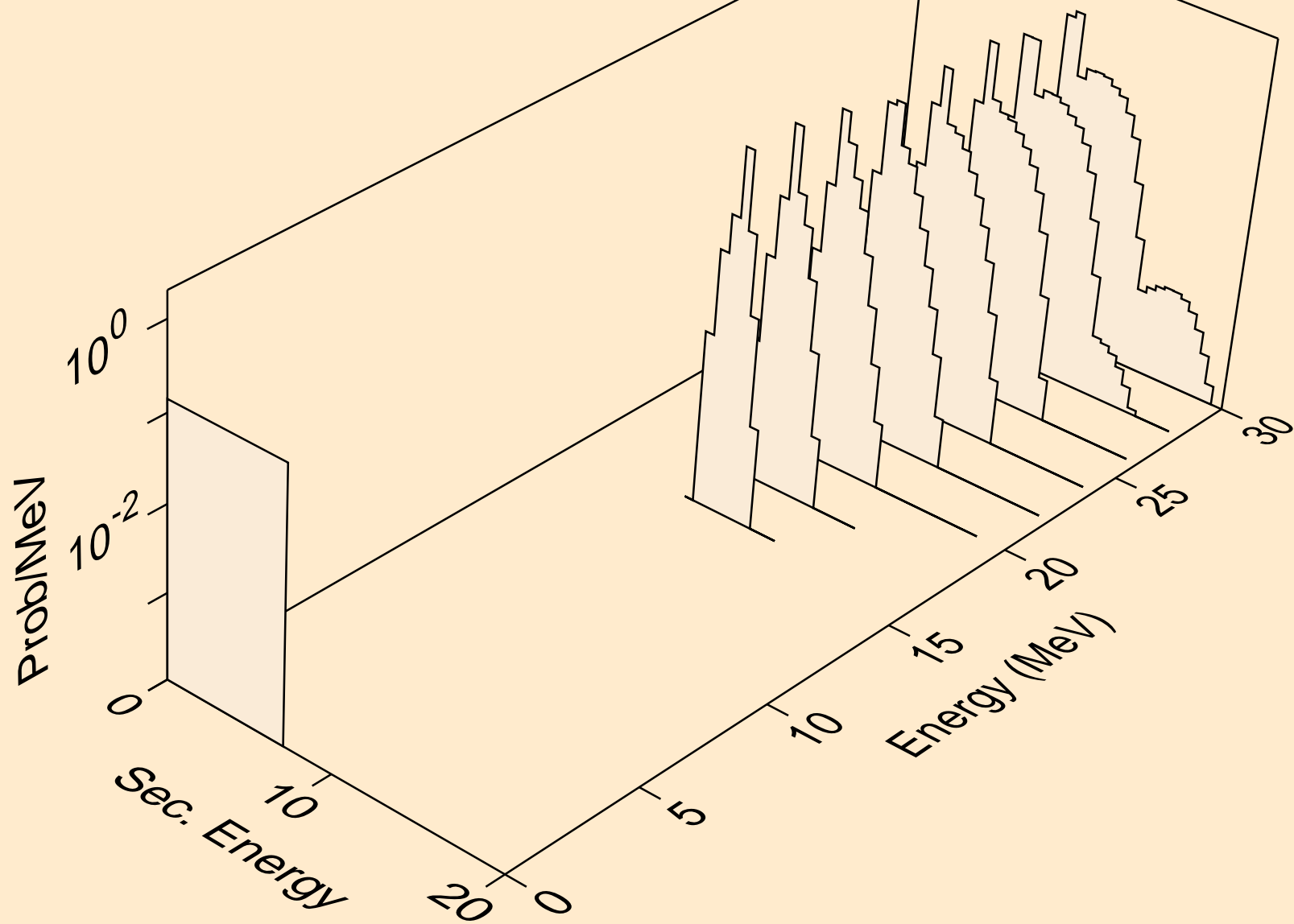


RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)2a

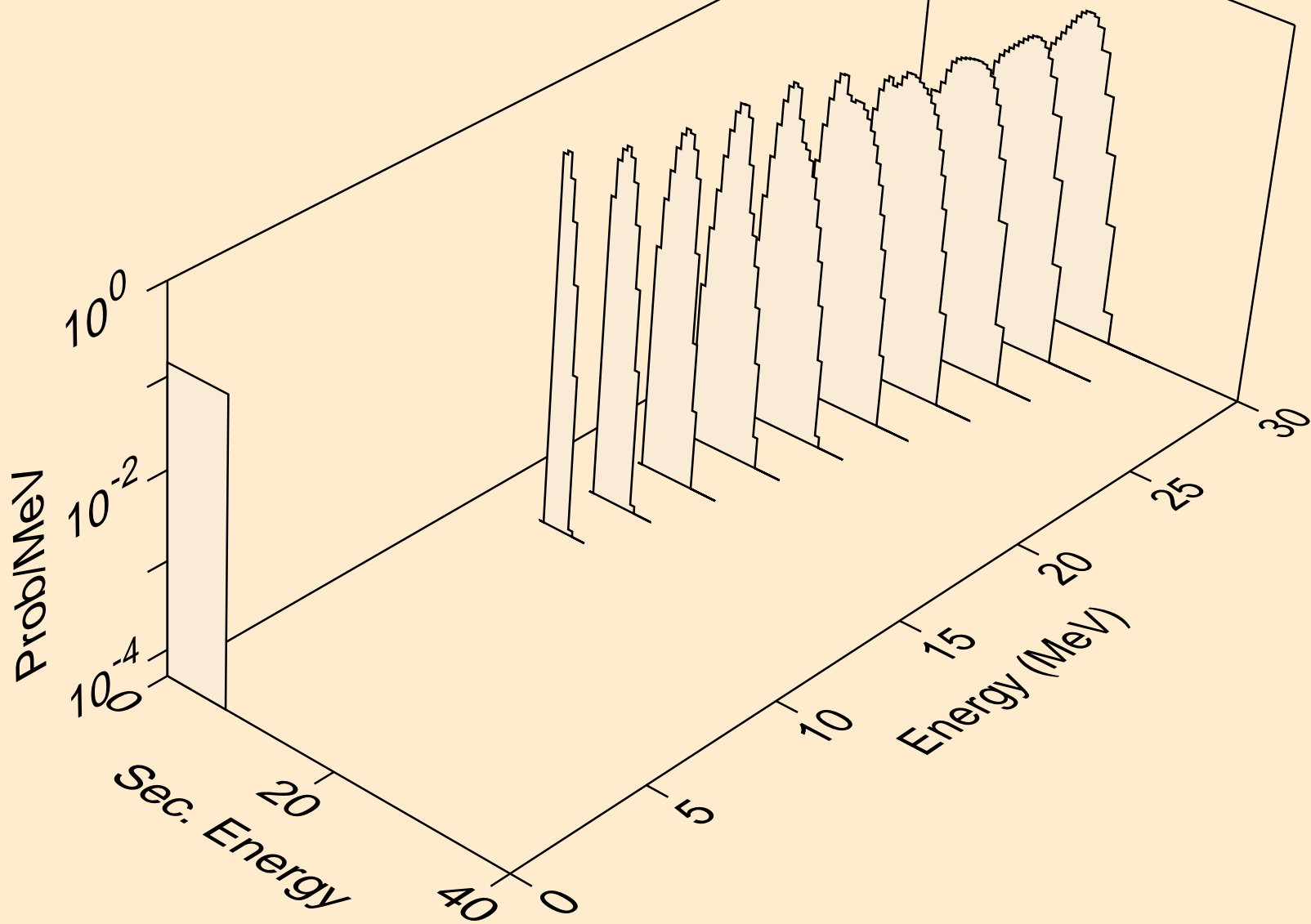




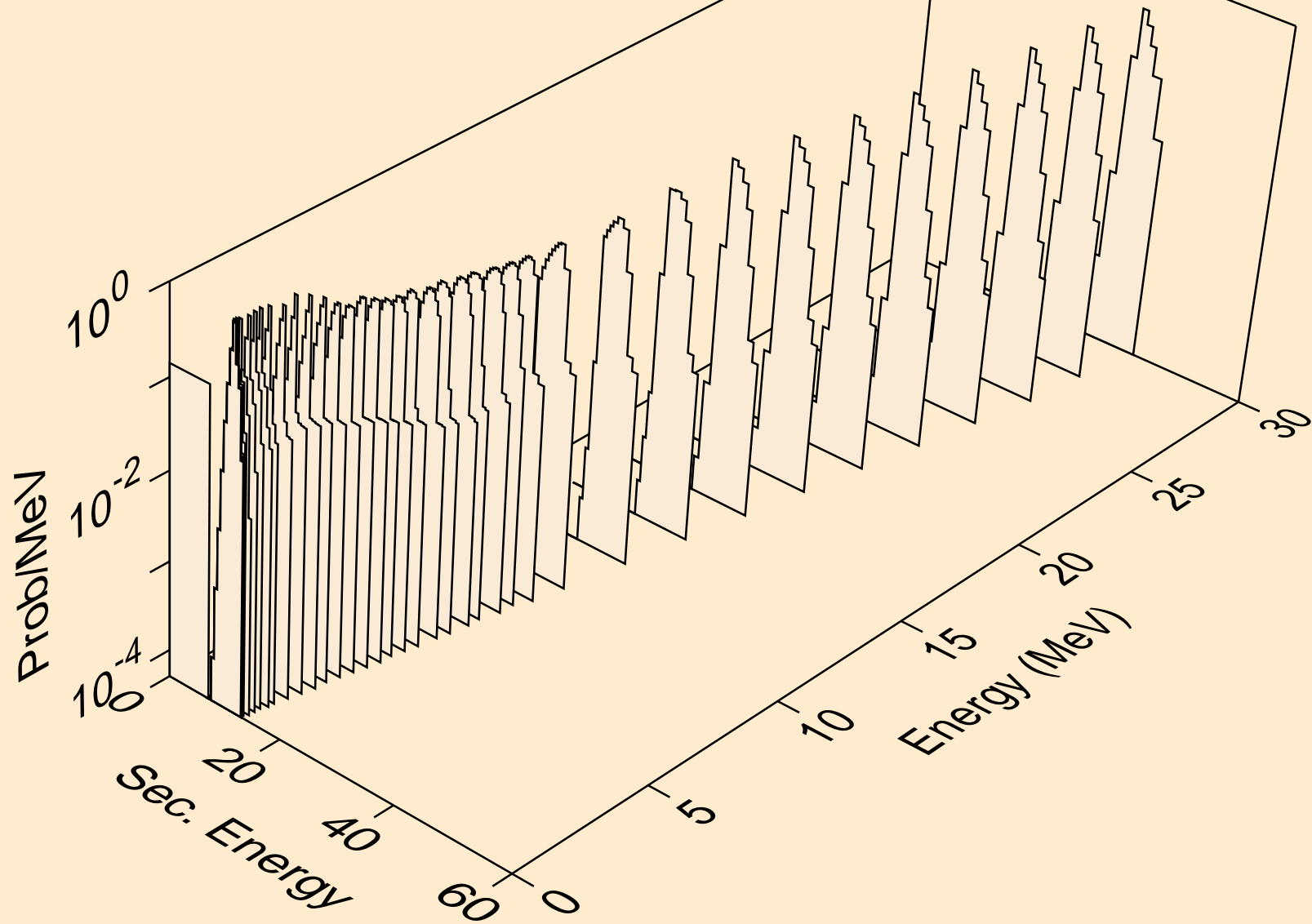
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)t2a



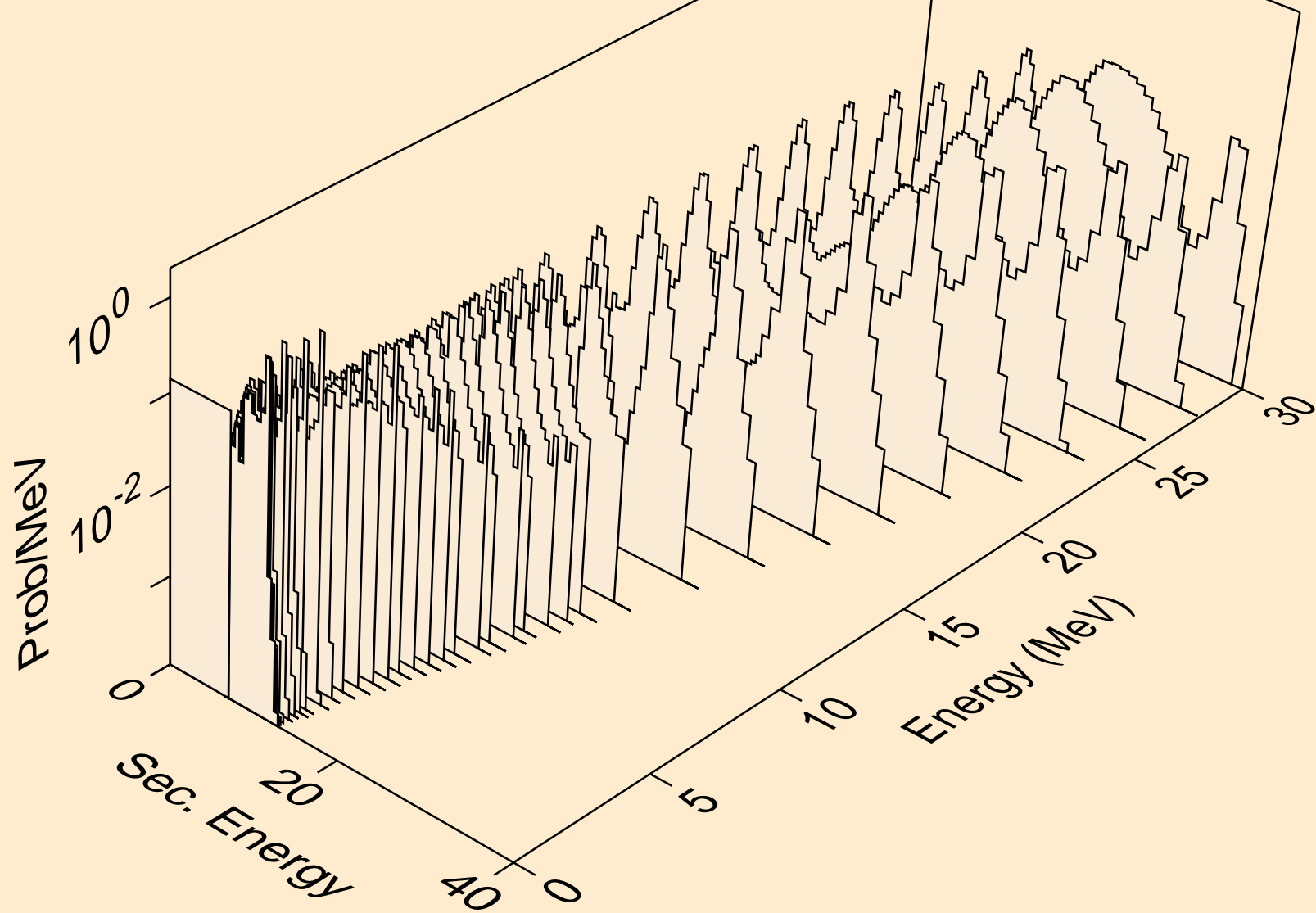
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



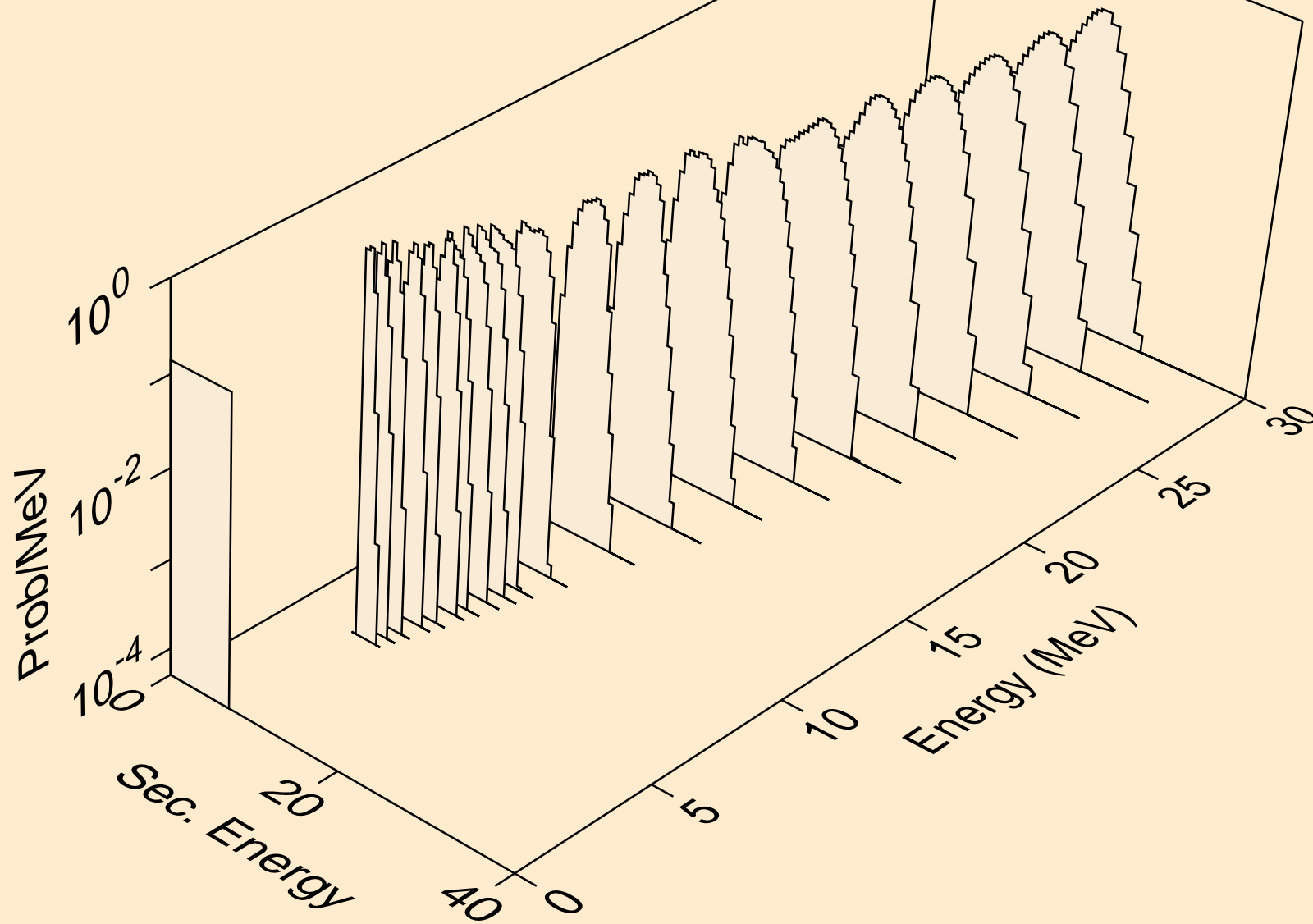
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



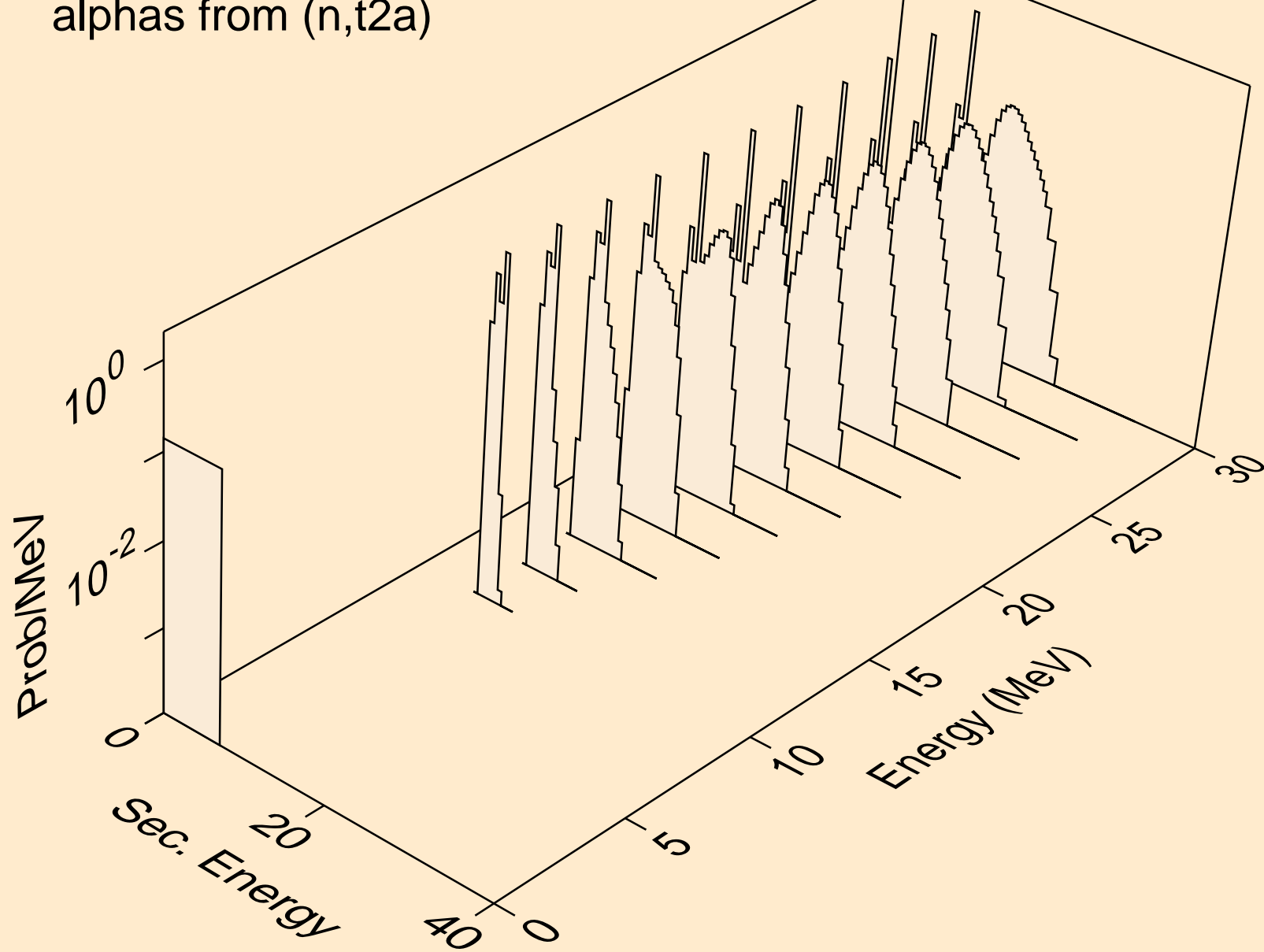
RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,t2a)



RA221 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

