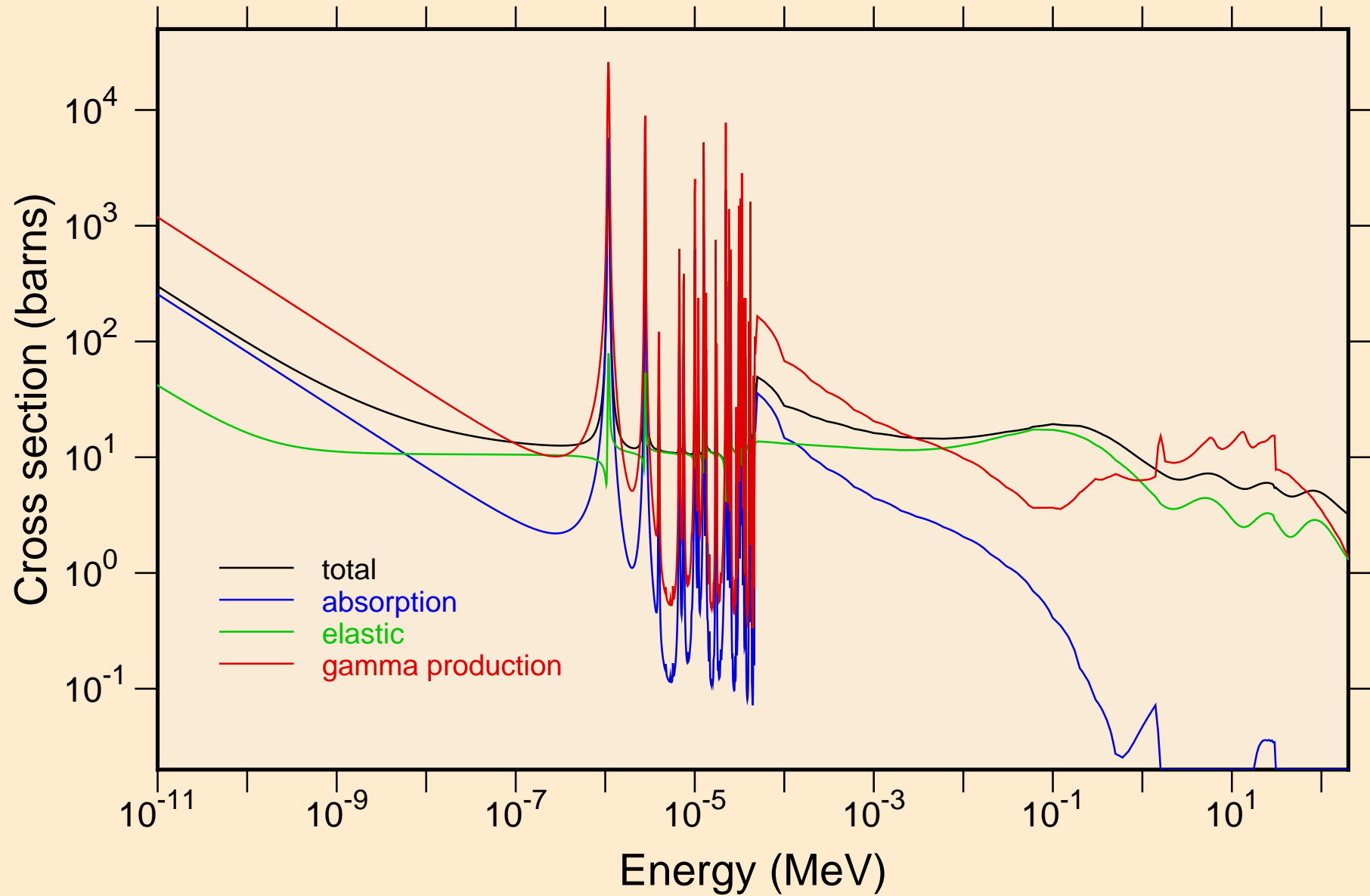
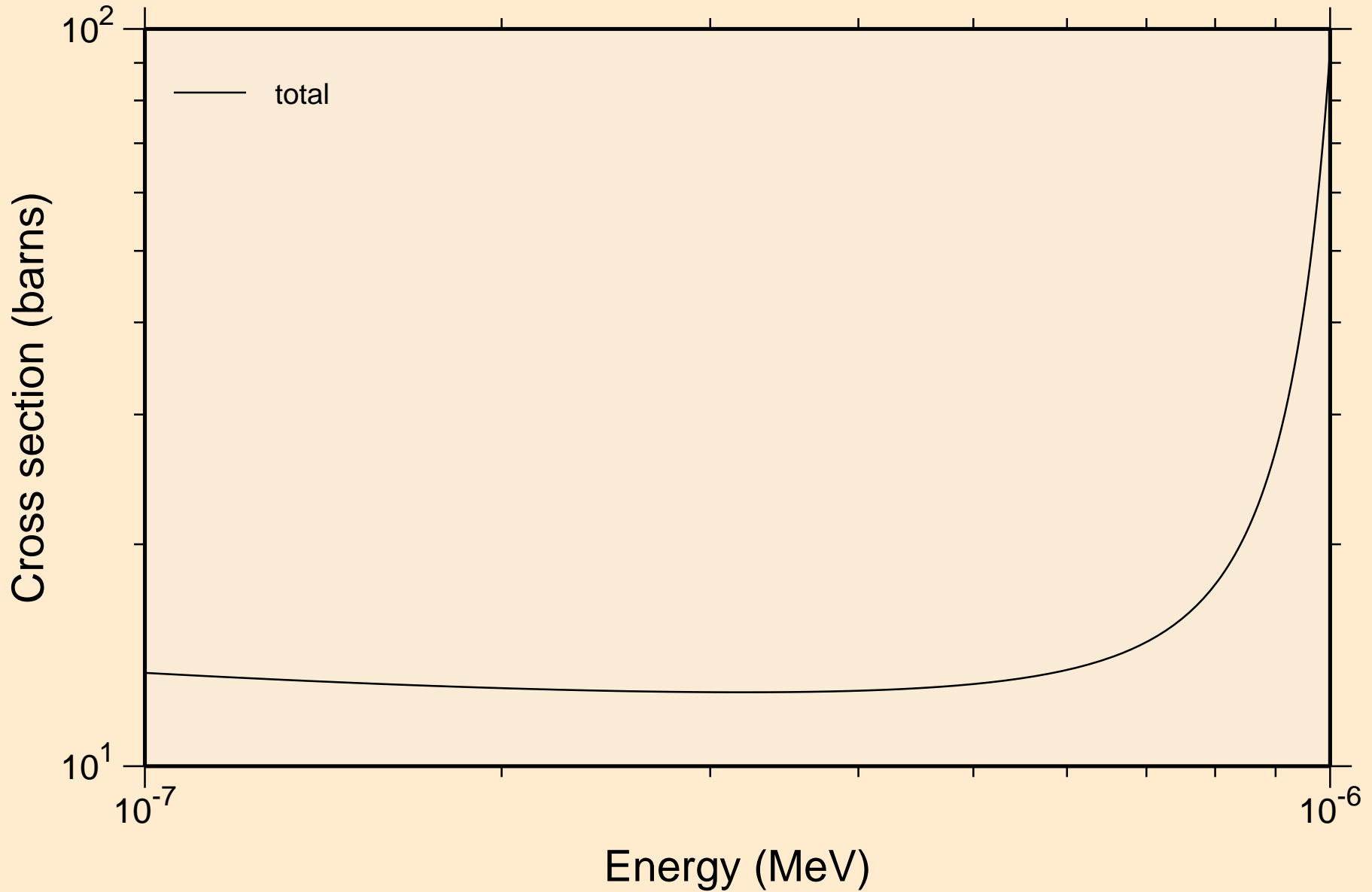


# RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

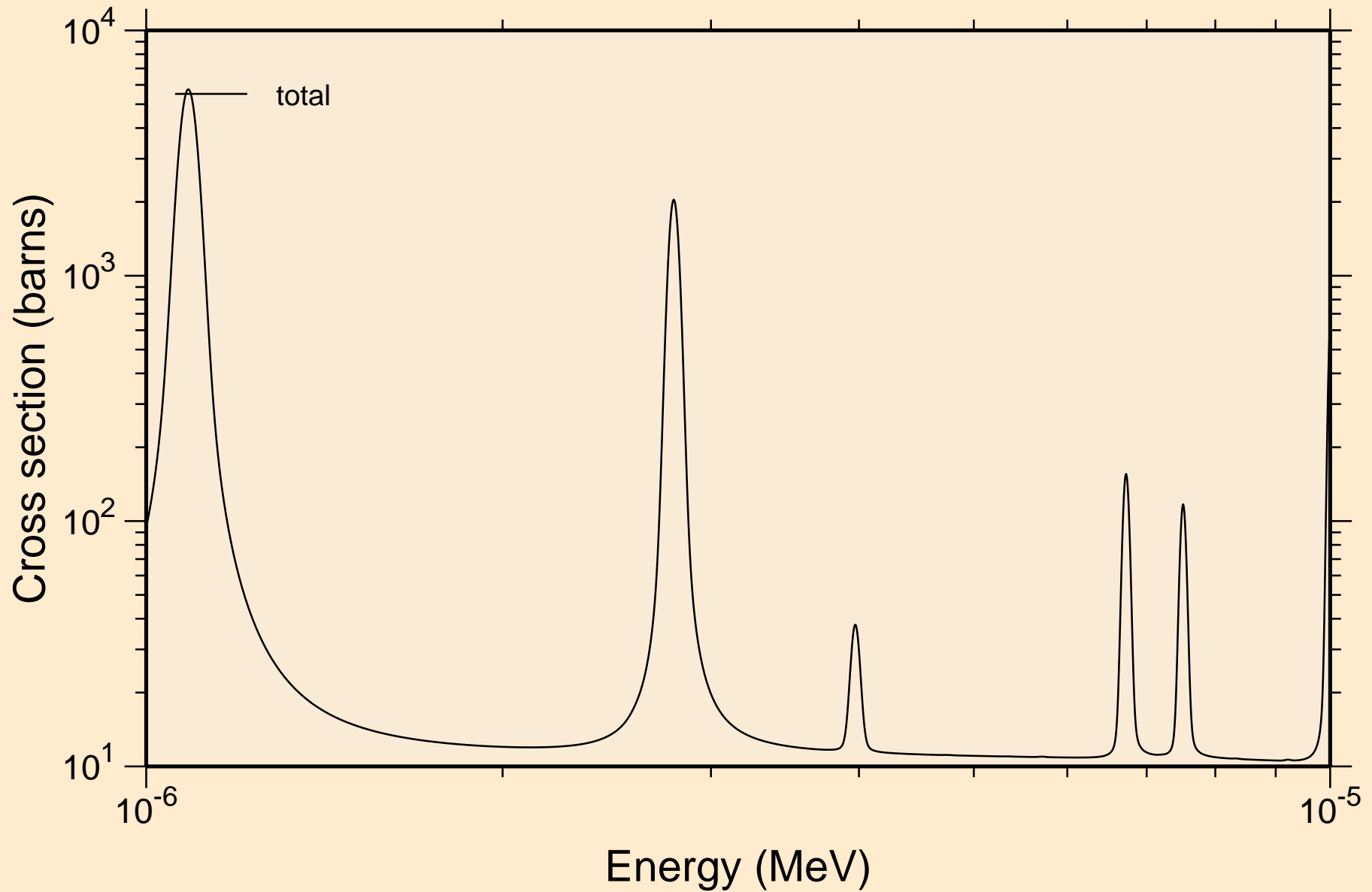
## Principal cross sections



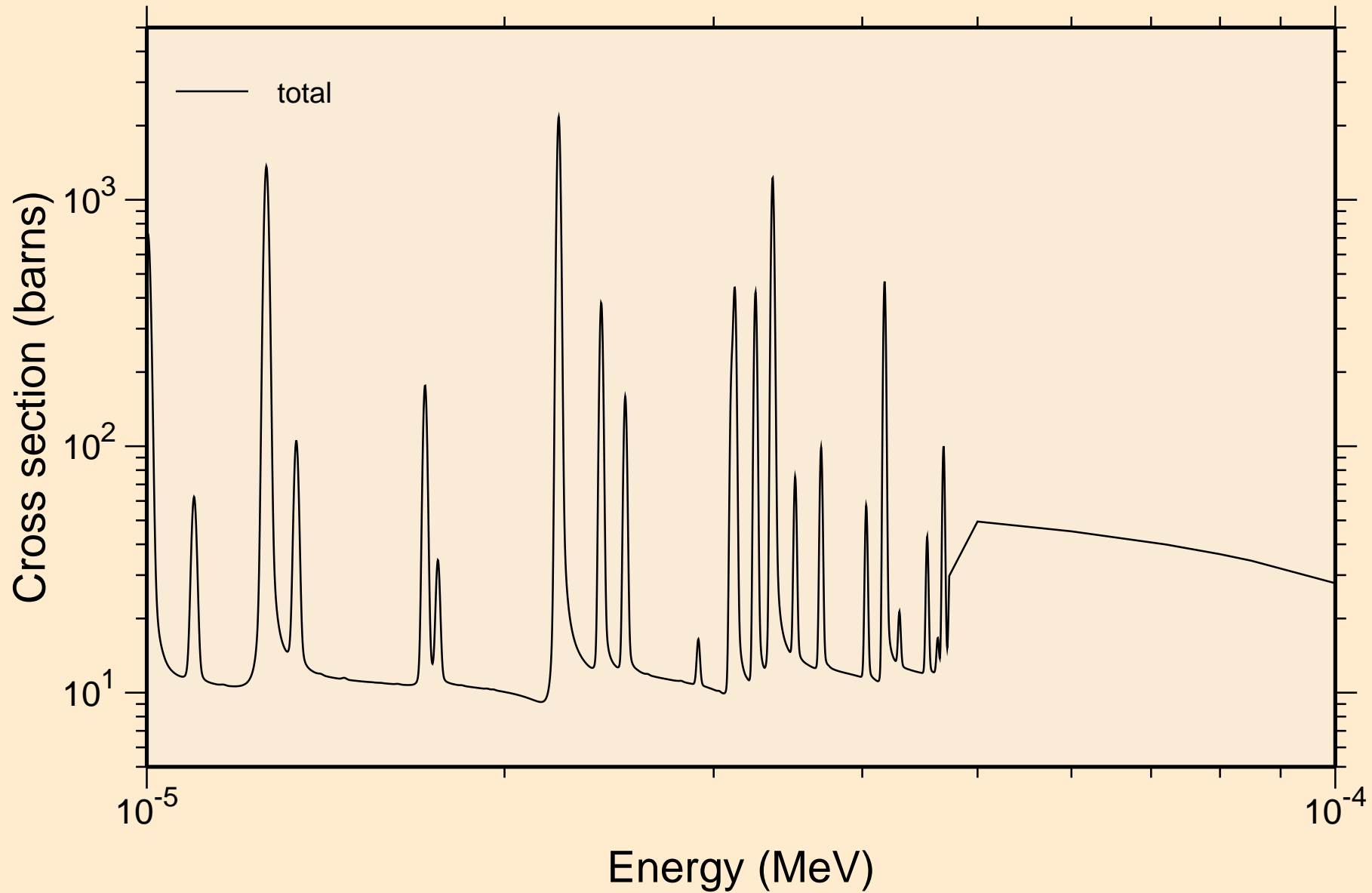
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resonance total cross section



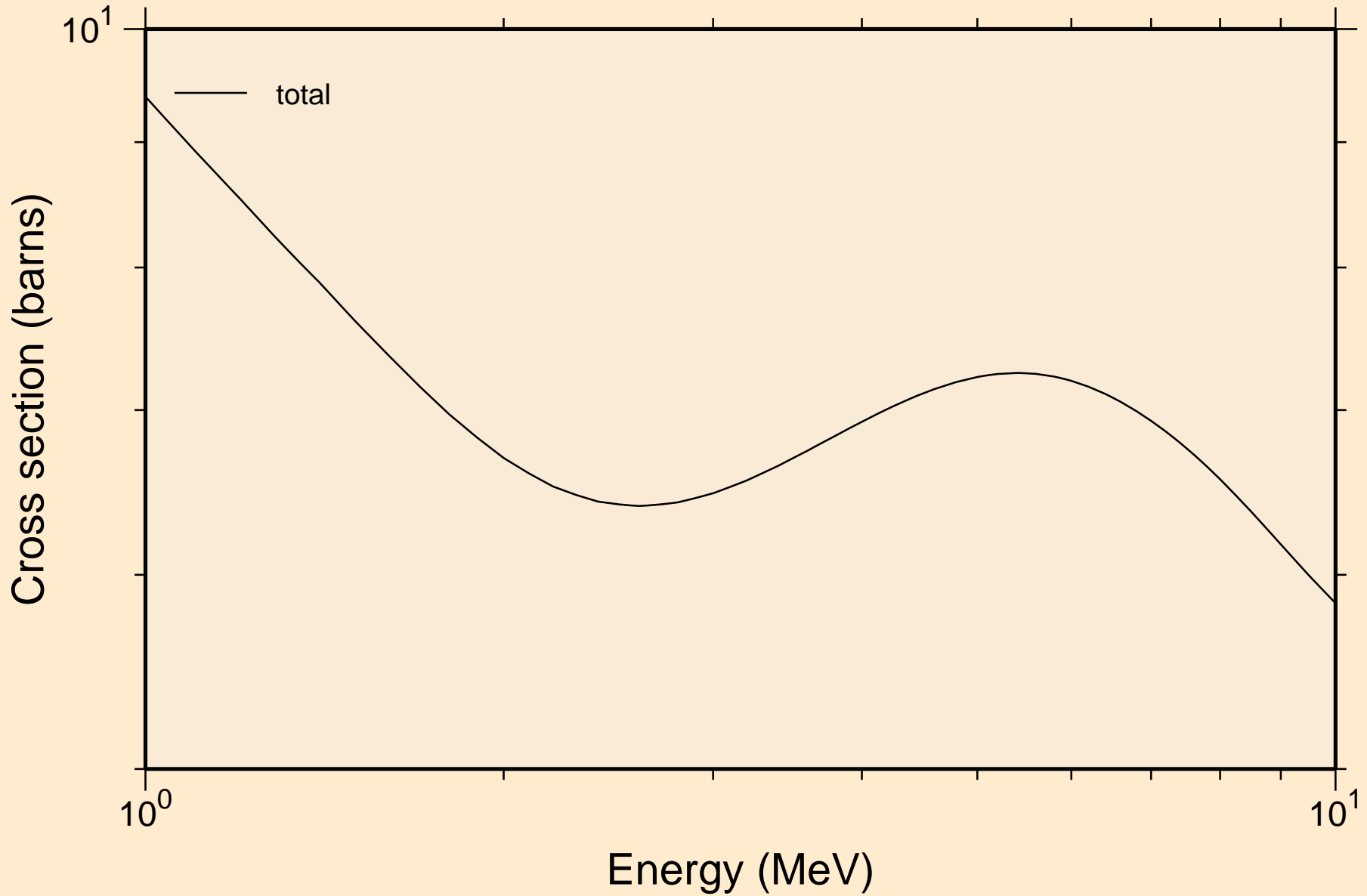
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



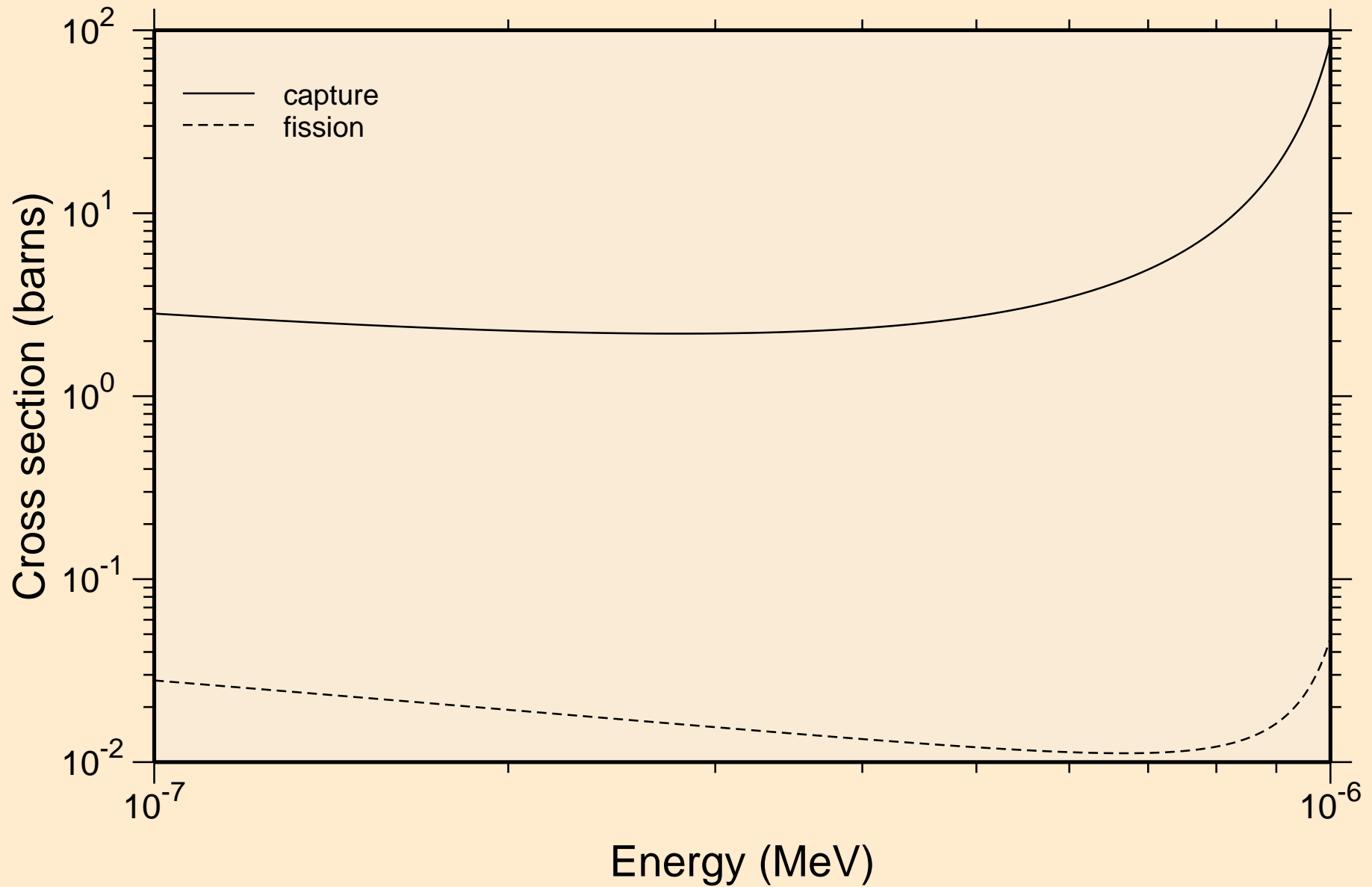
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



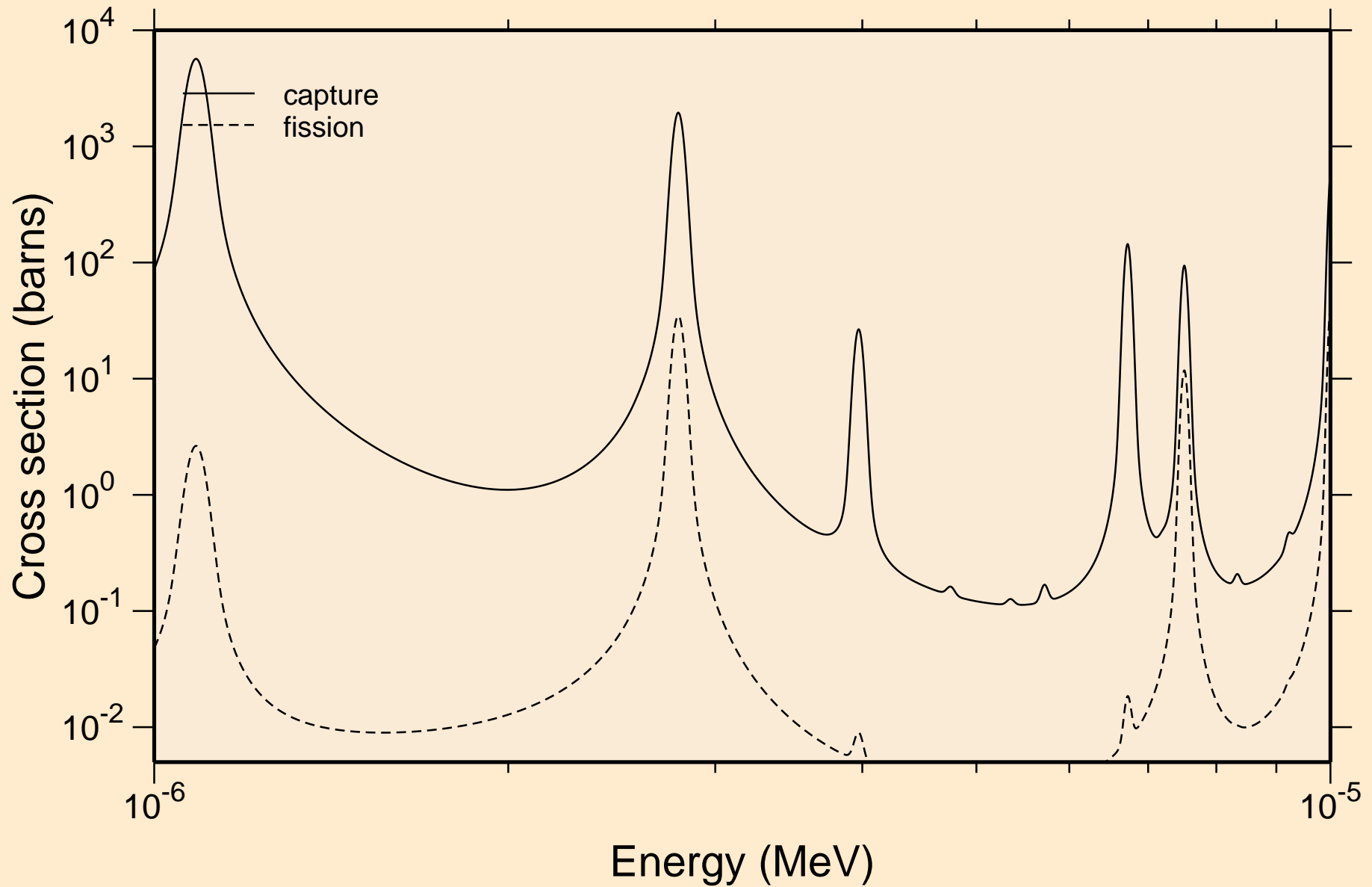
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



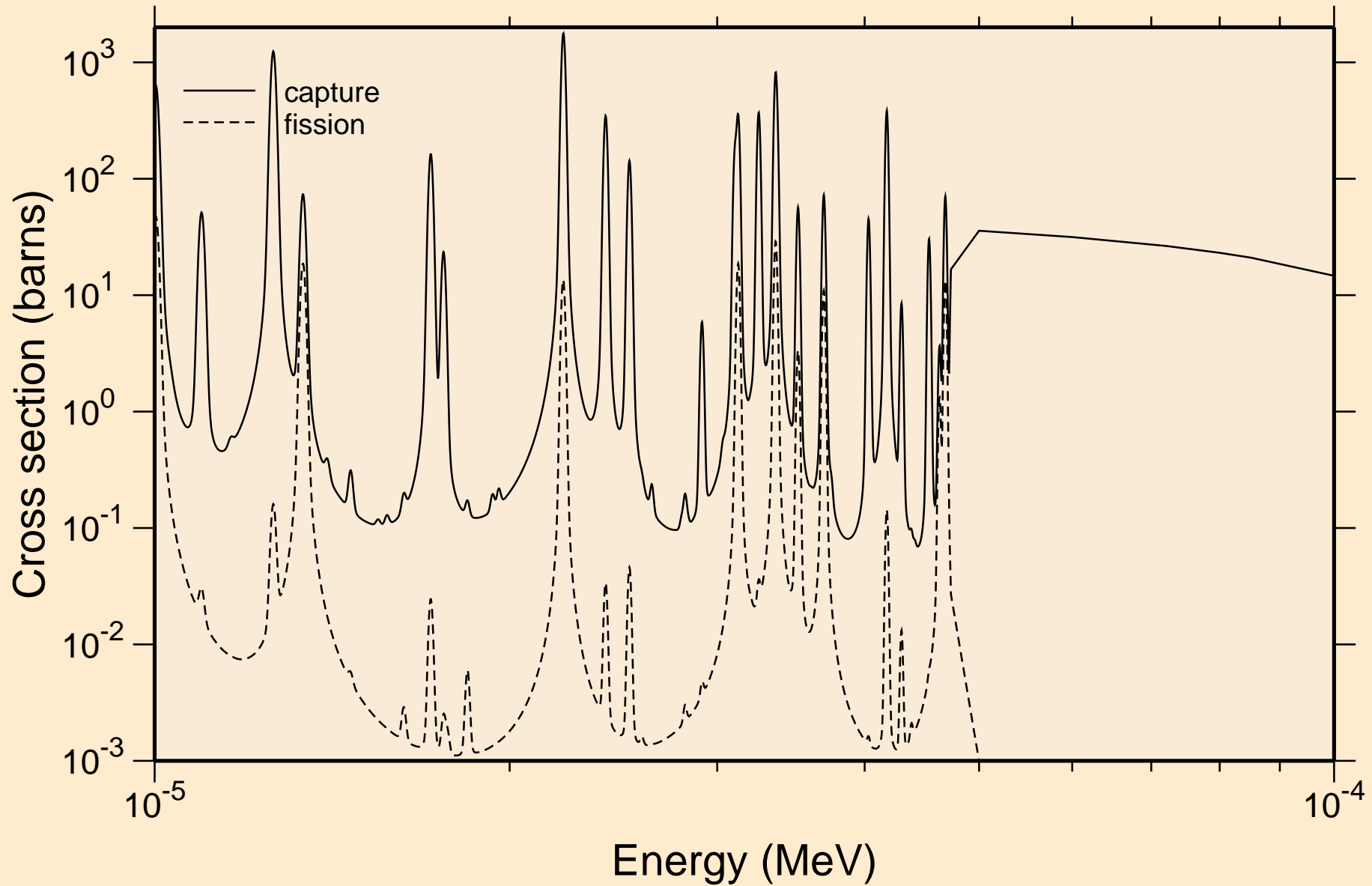
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

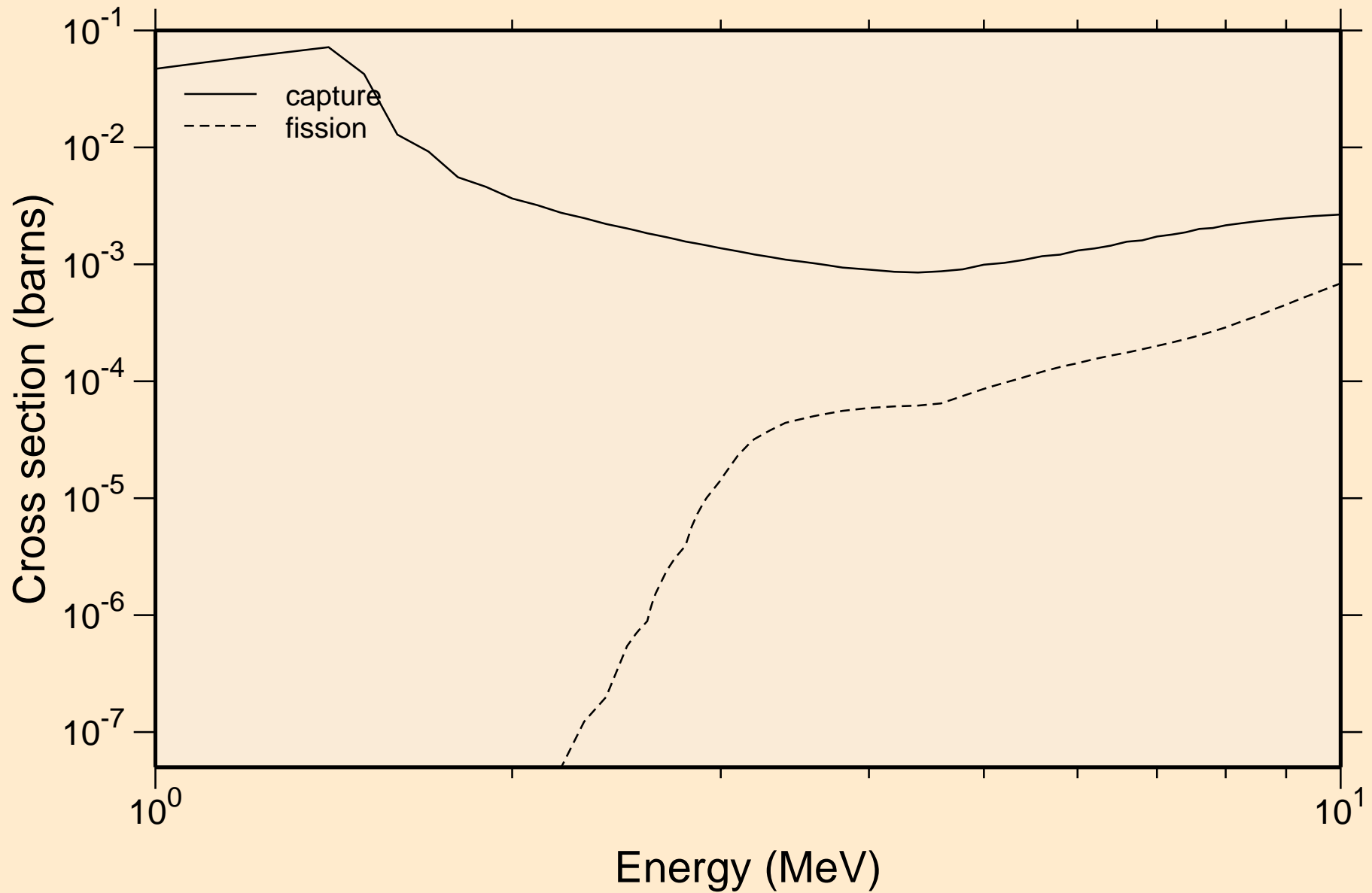


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

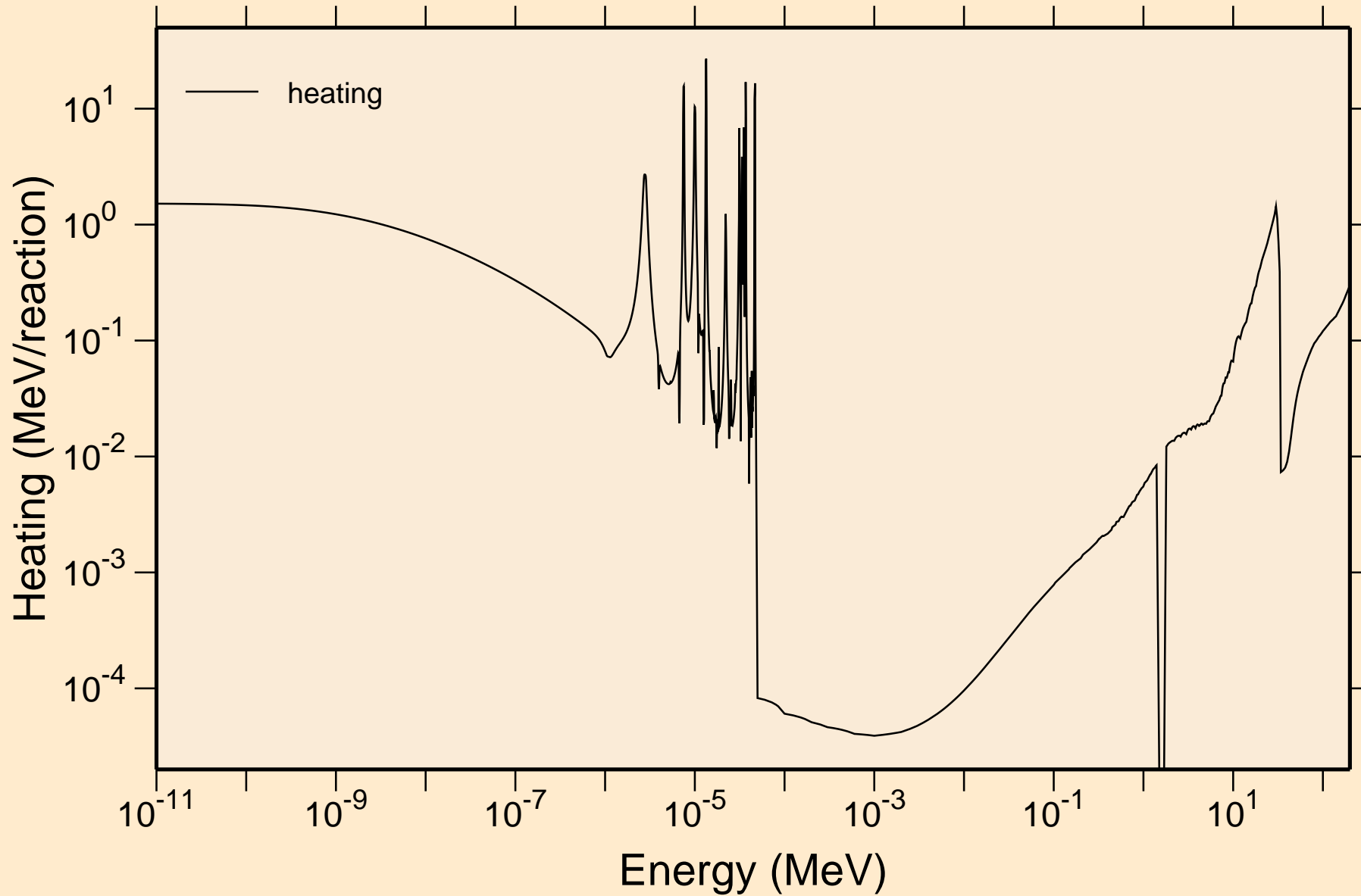




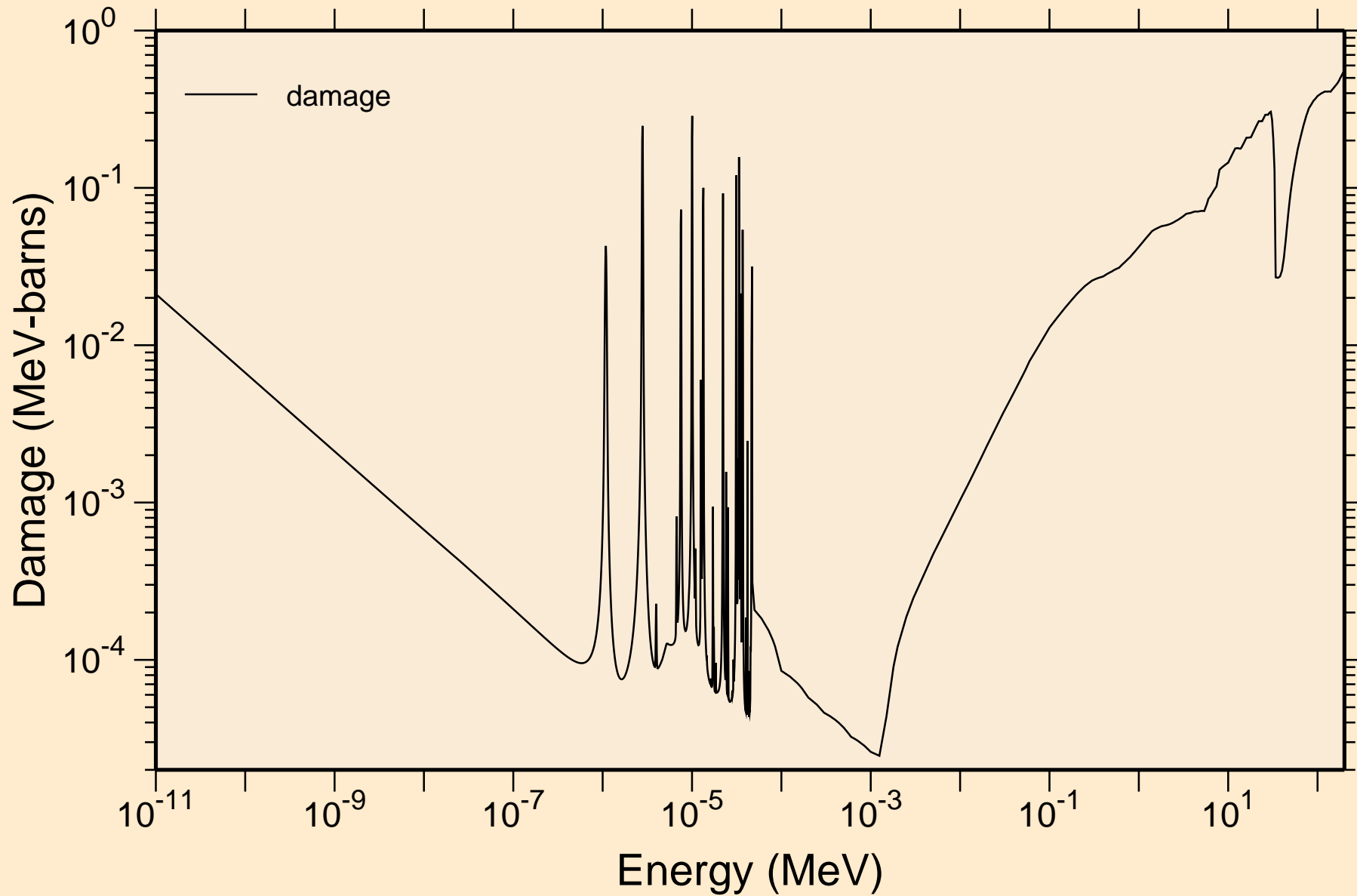
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



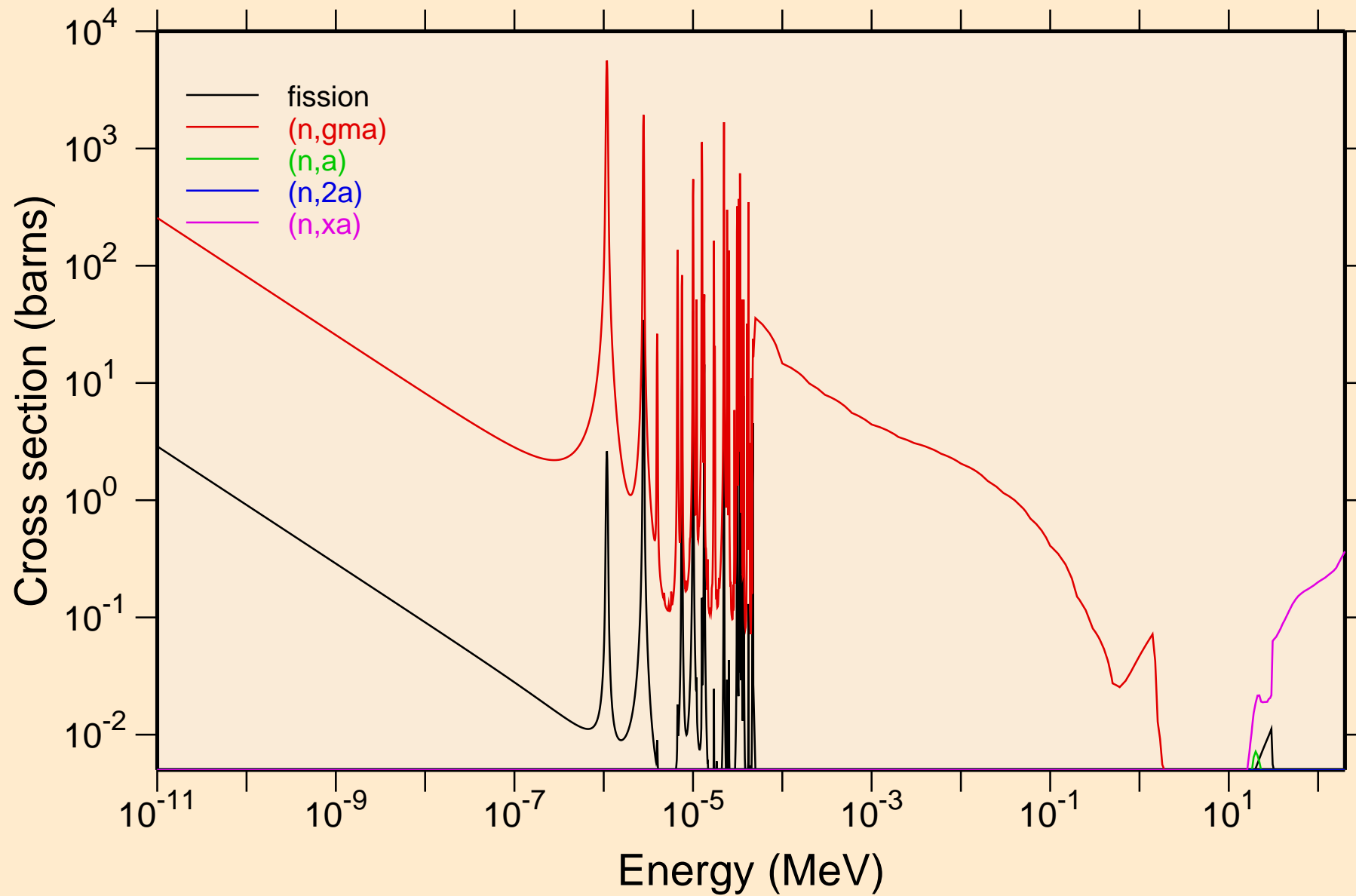
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



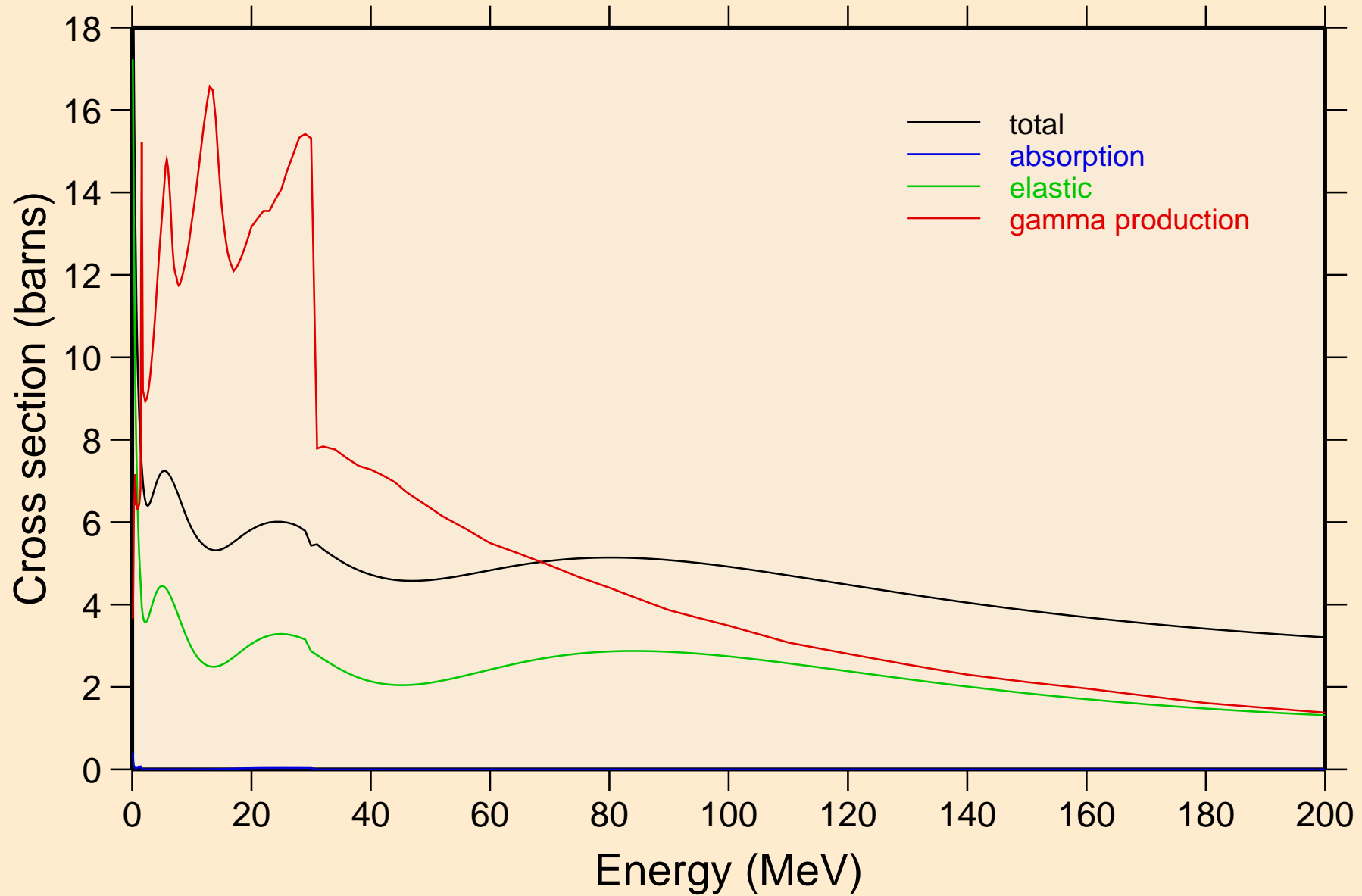
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Damage



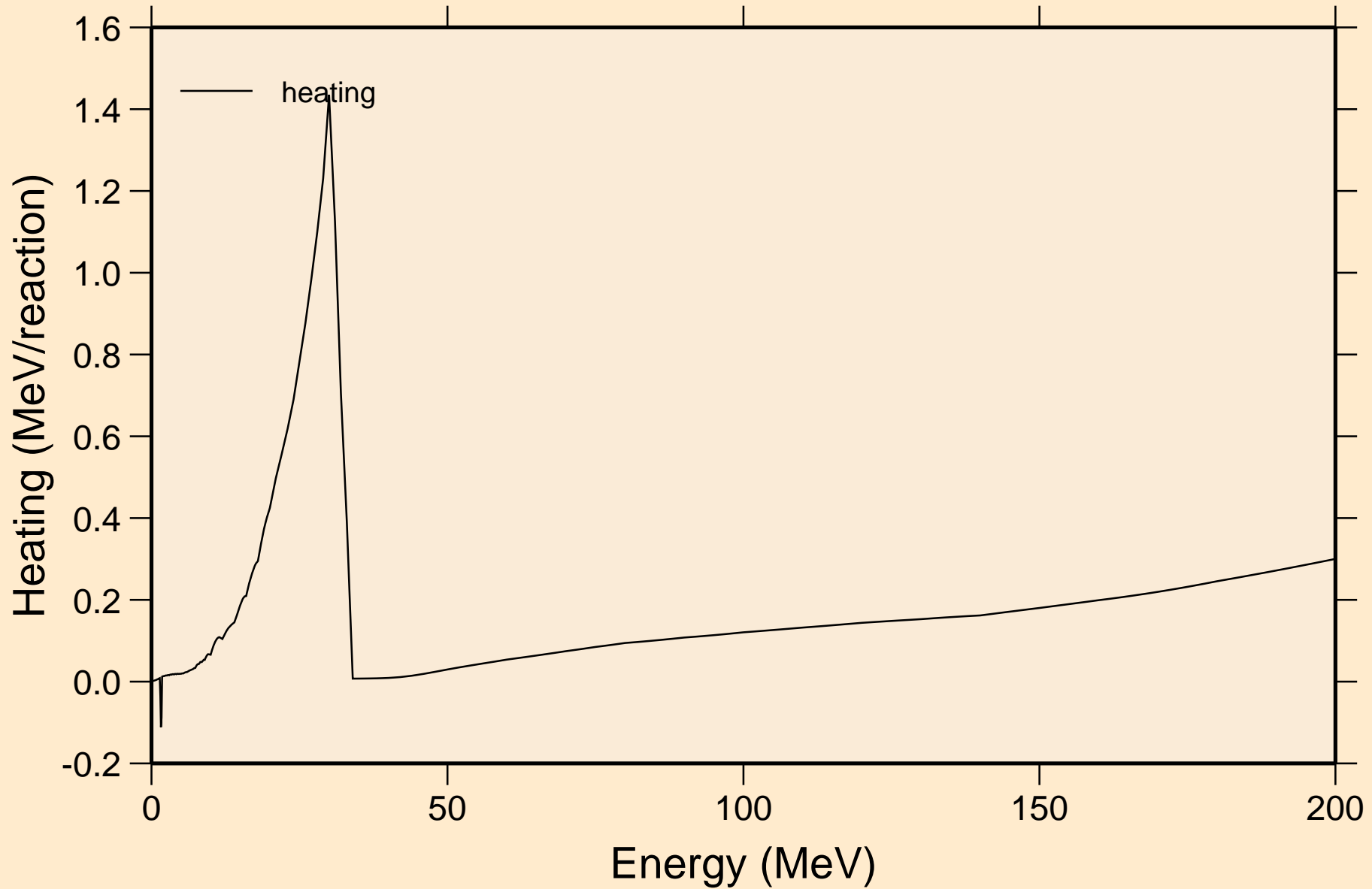
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Non-threshold reactions



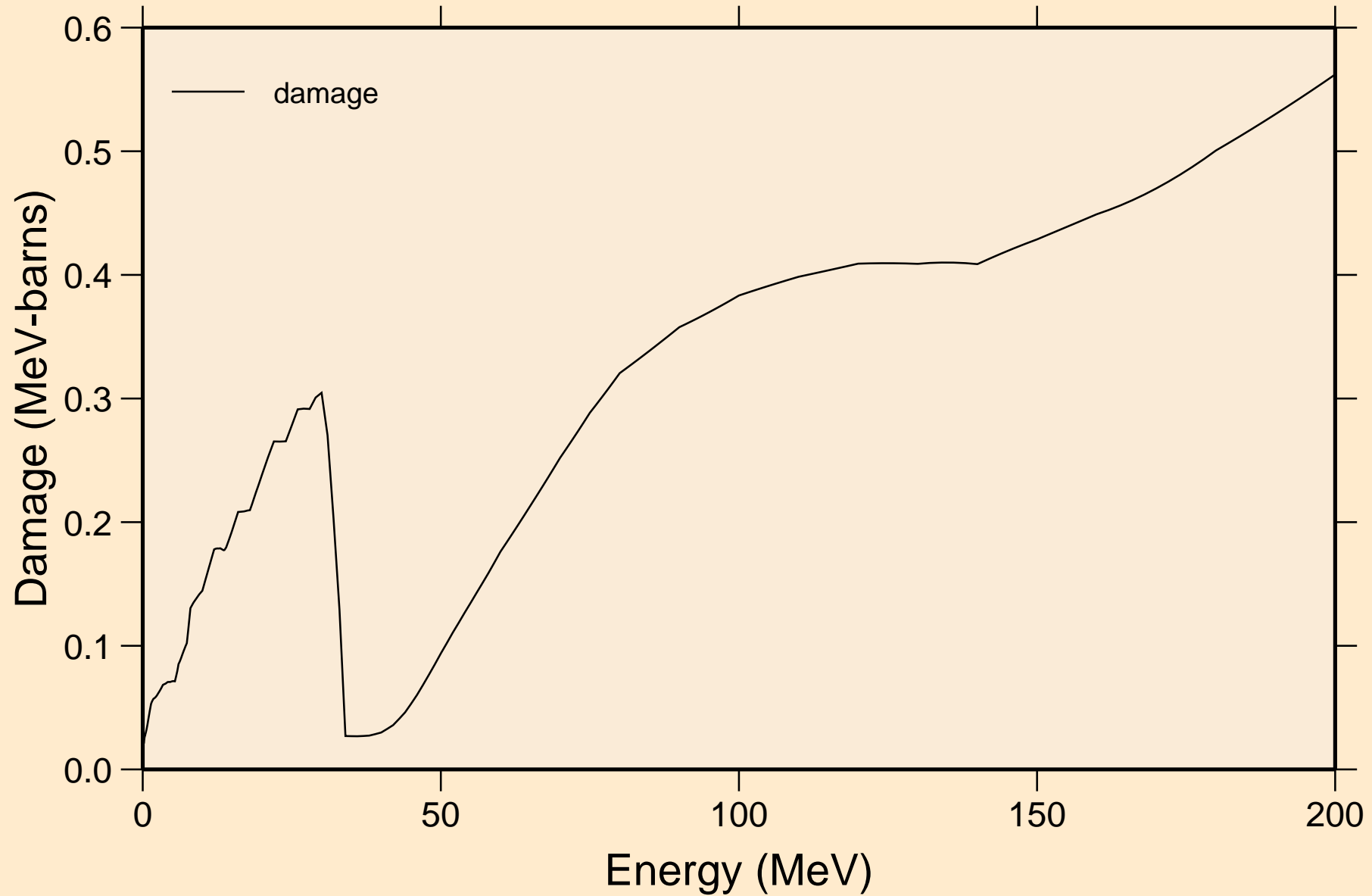
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Principal cross sections



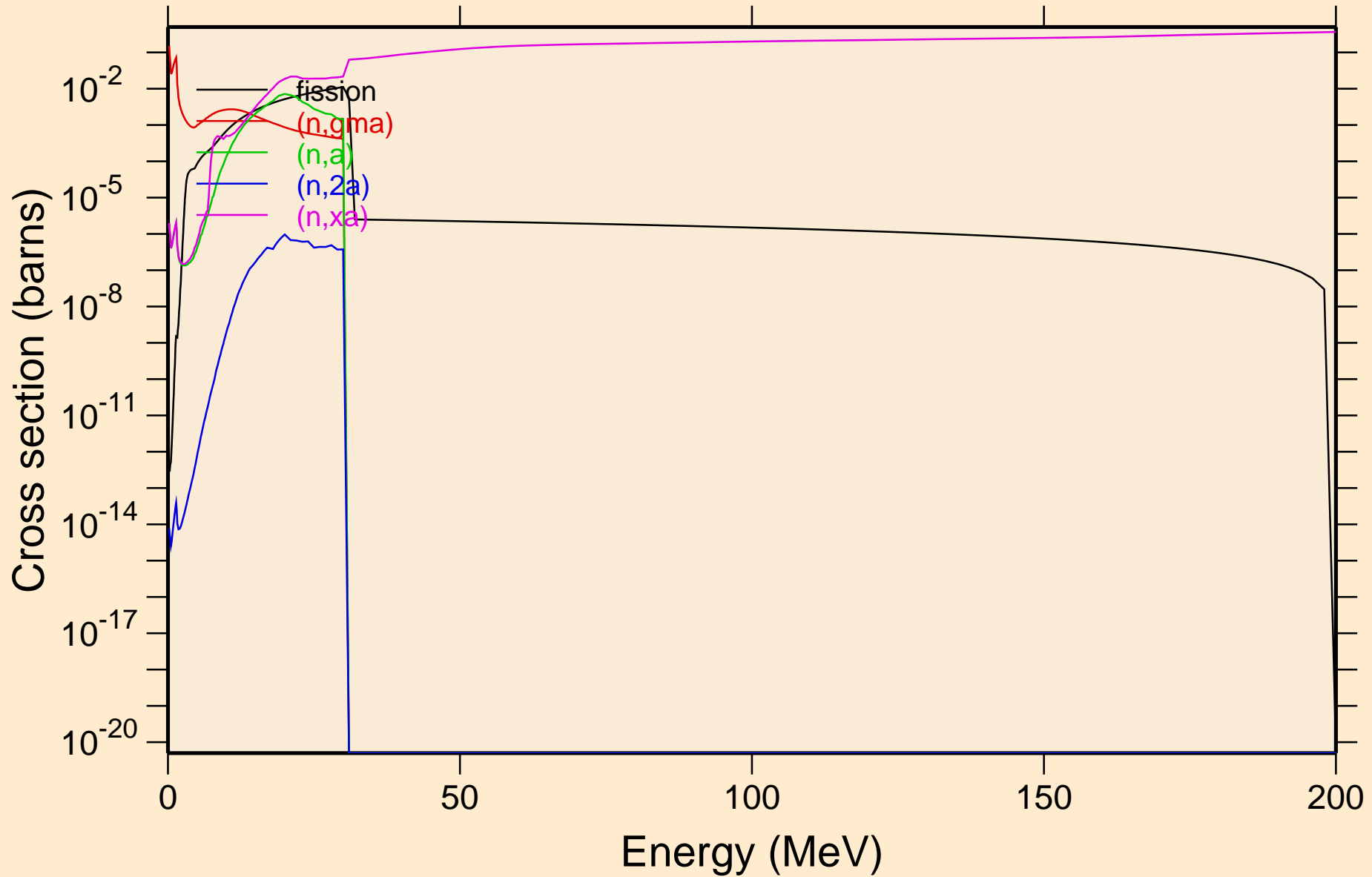
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

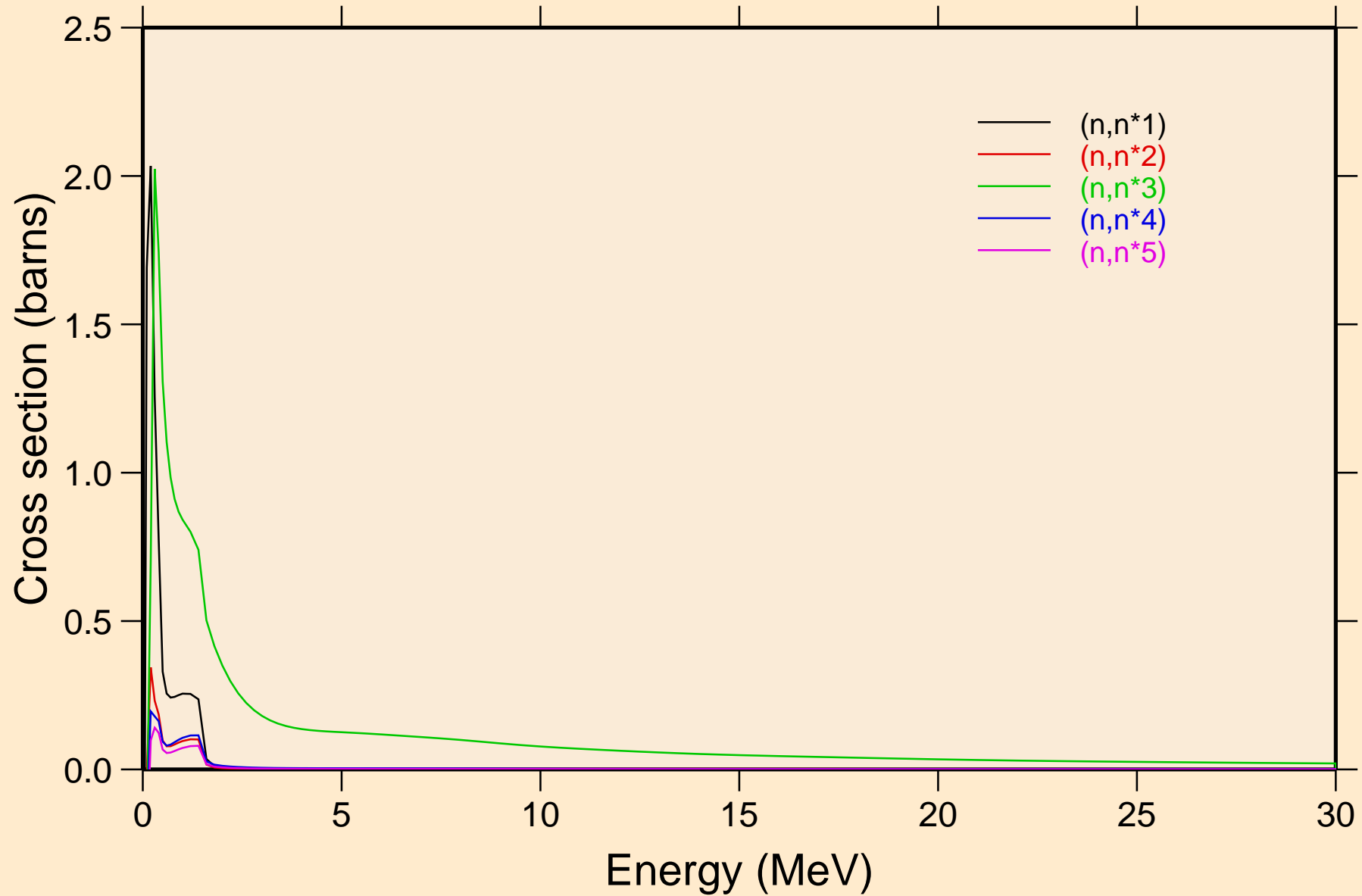


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Non-threshold reactions

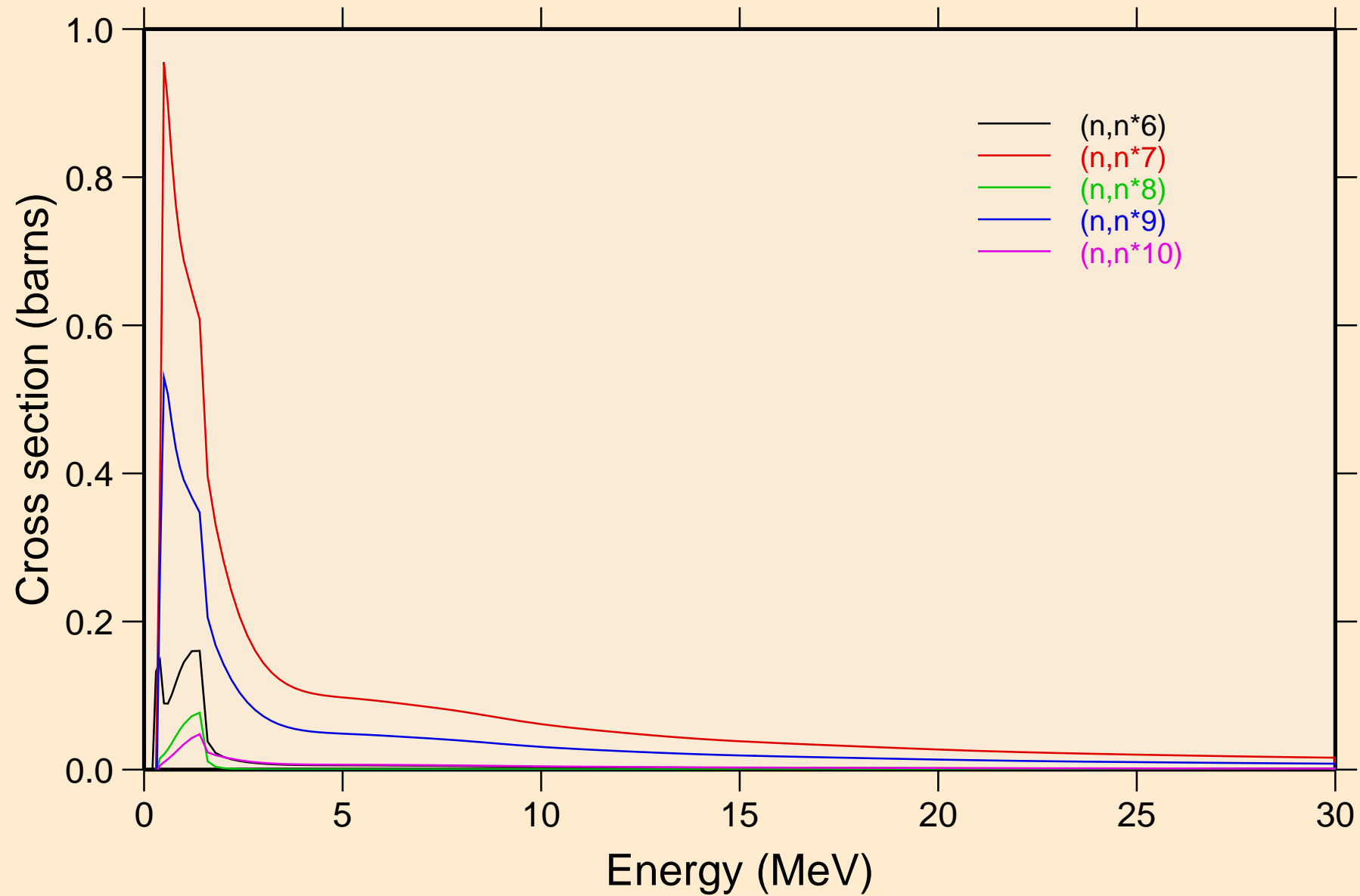




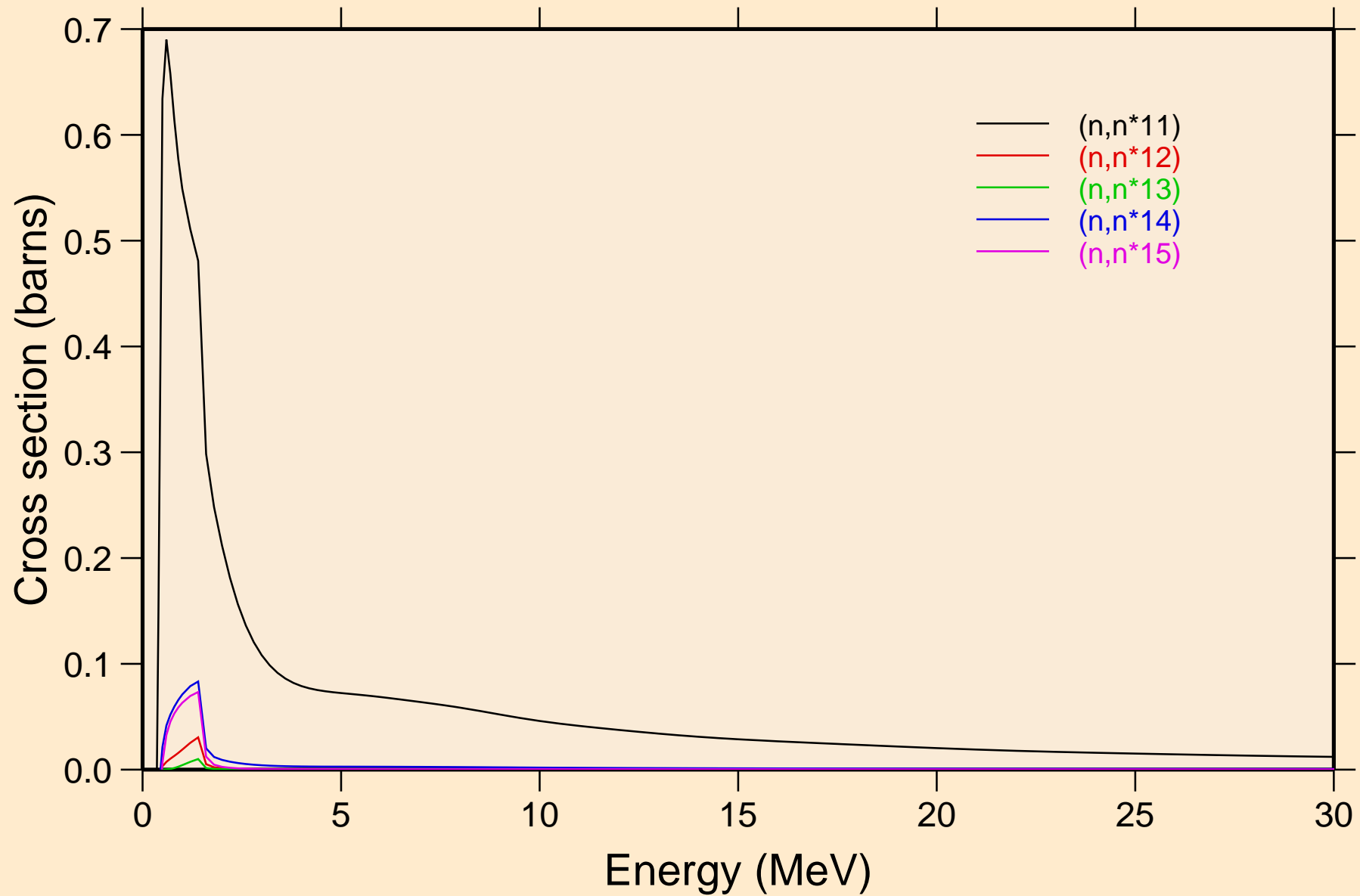
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



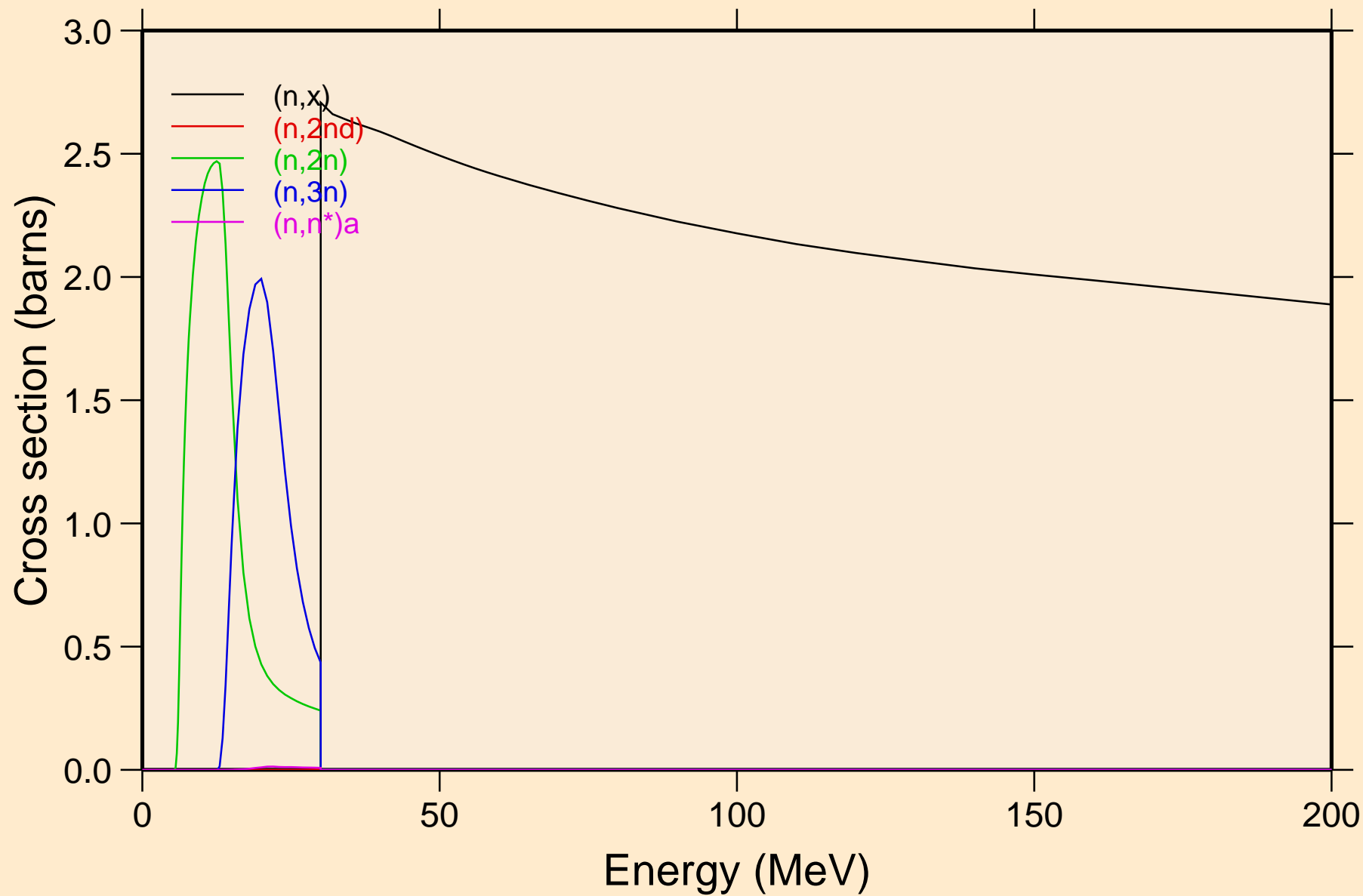
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



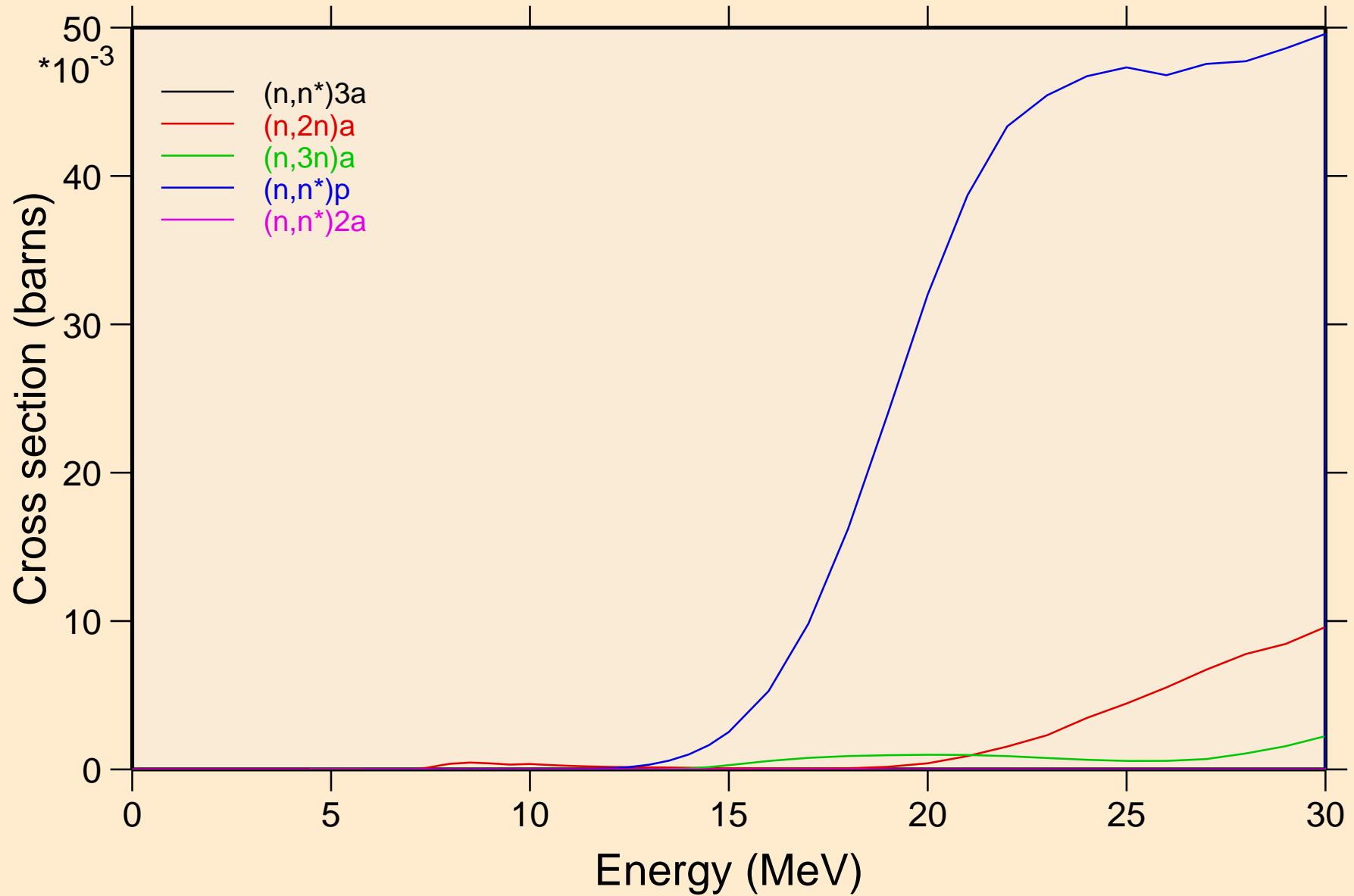
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



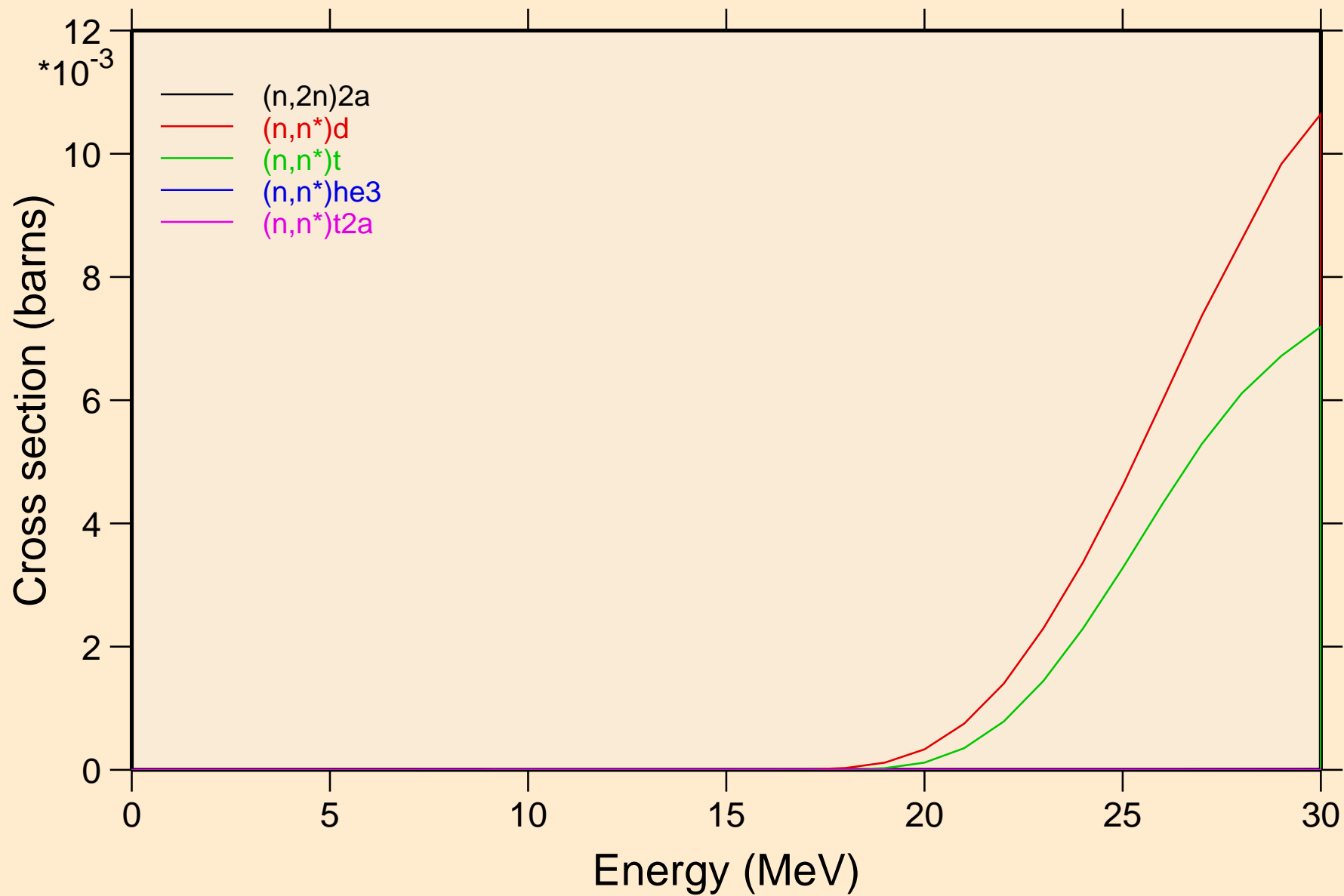
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Threshold reactions



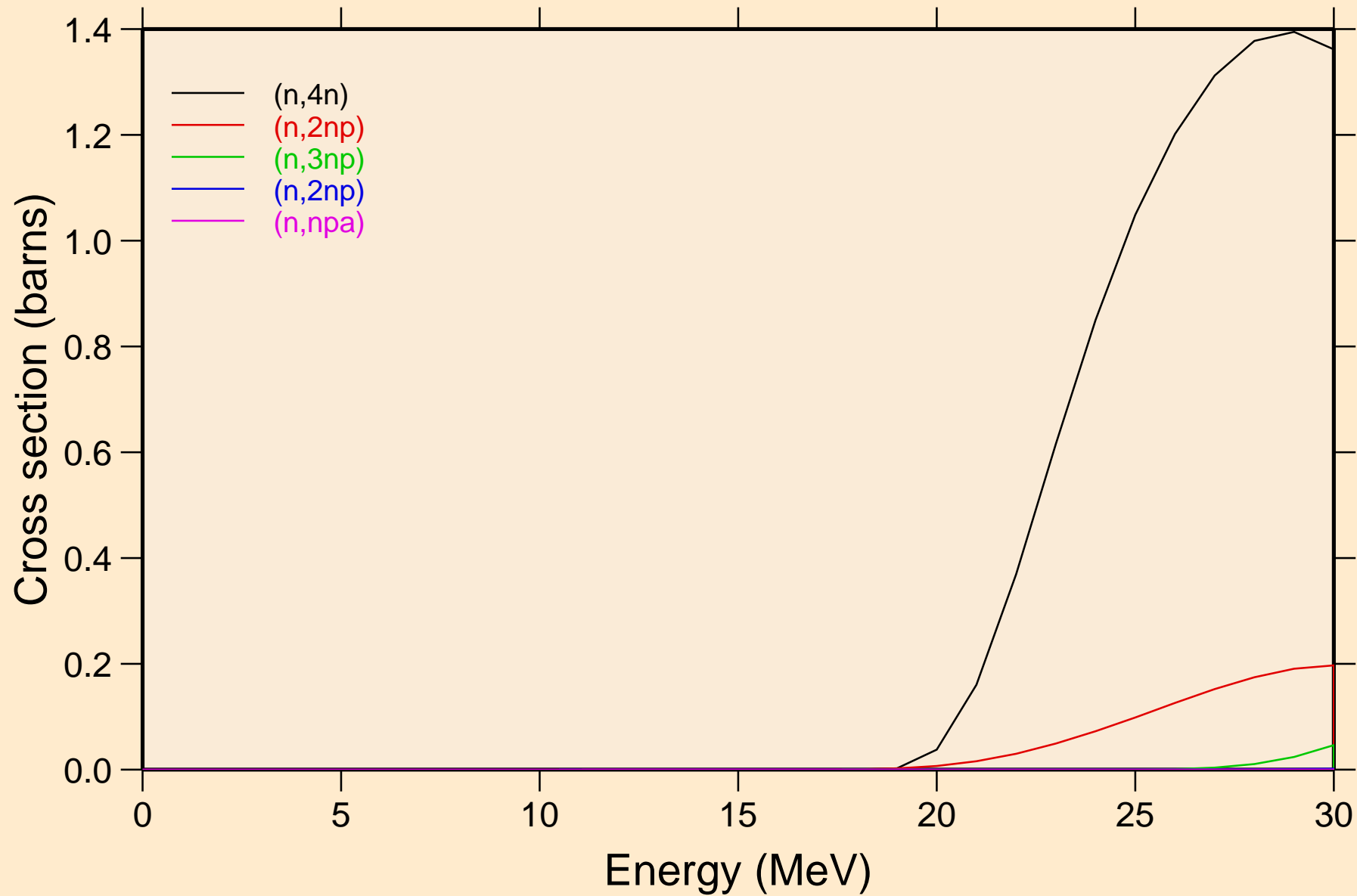
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Threshold reactions



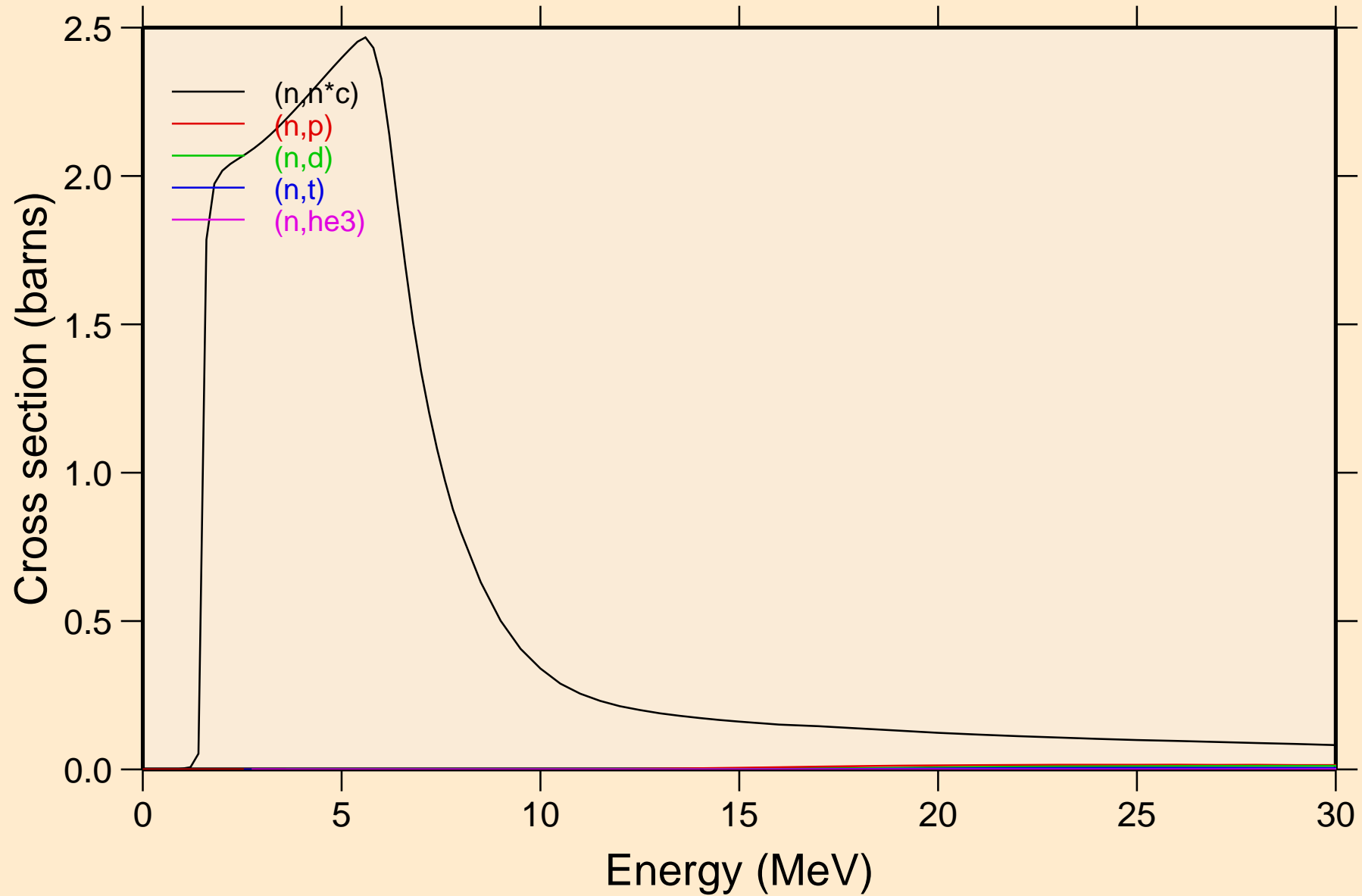
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

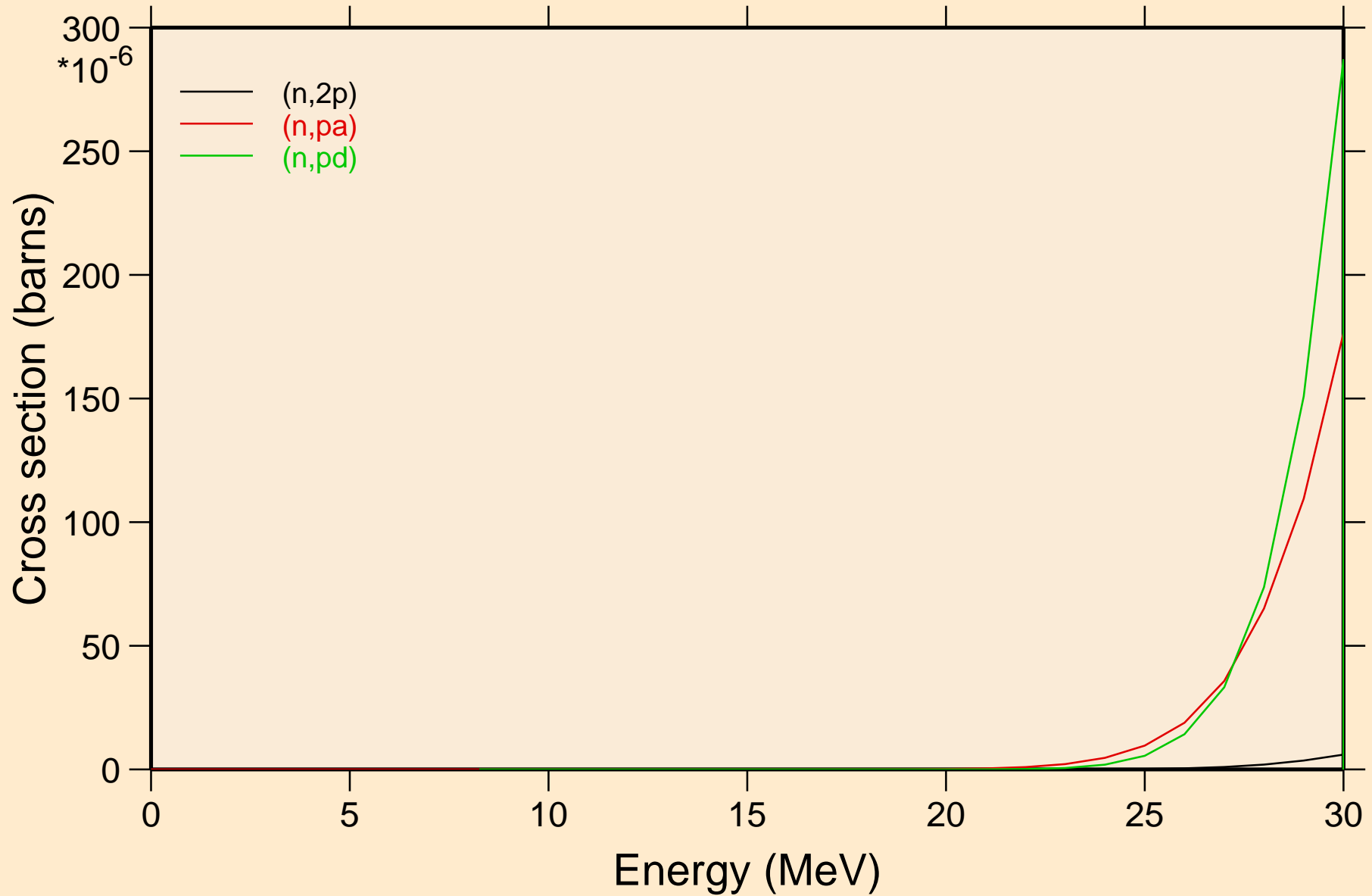


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Threshold reactions

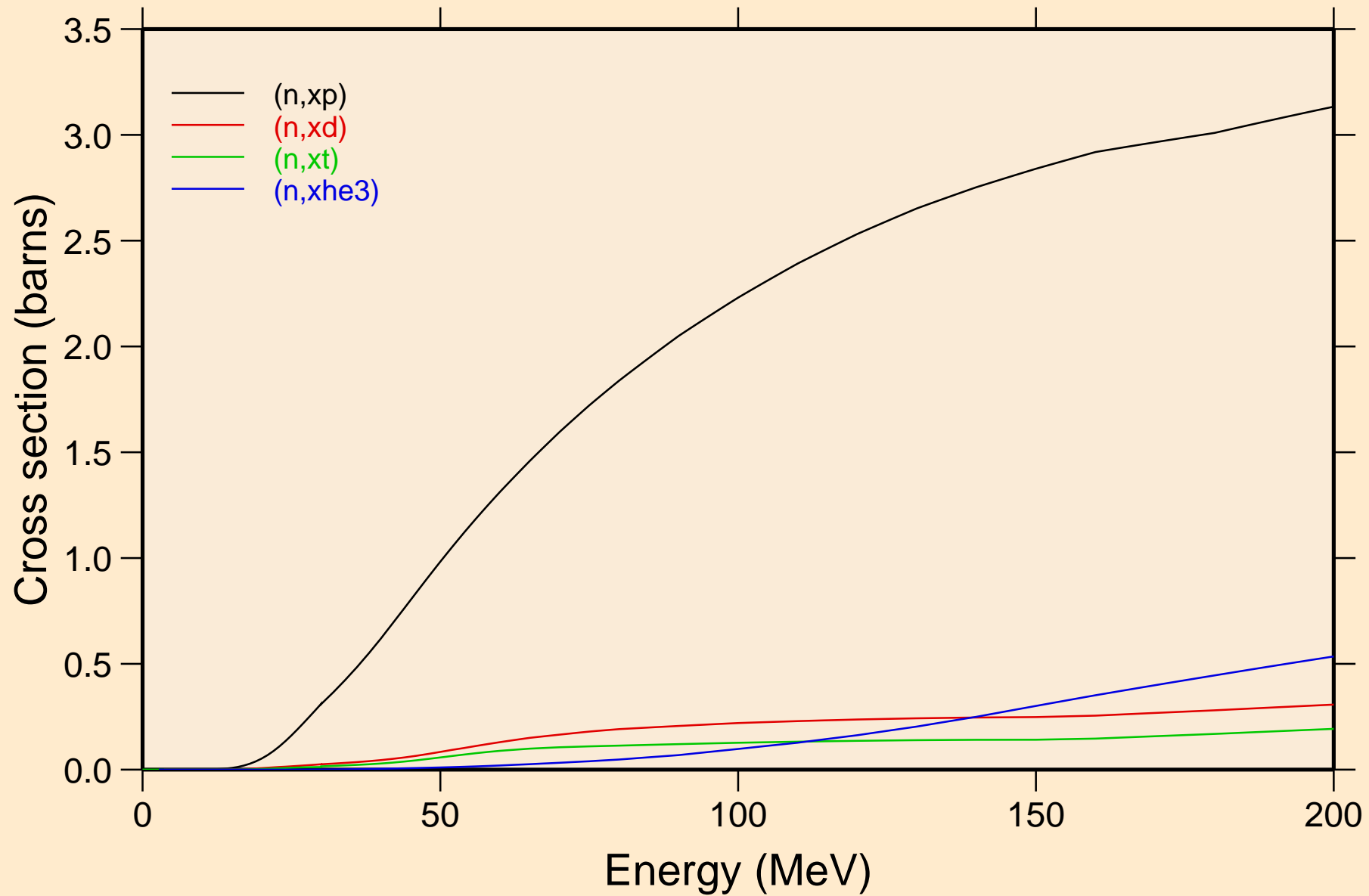




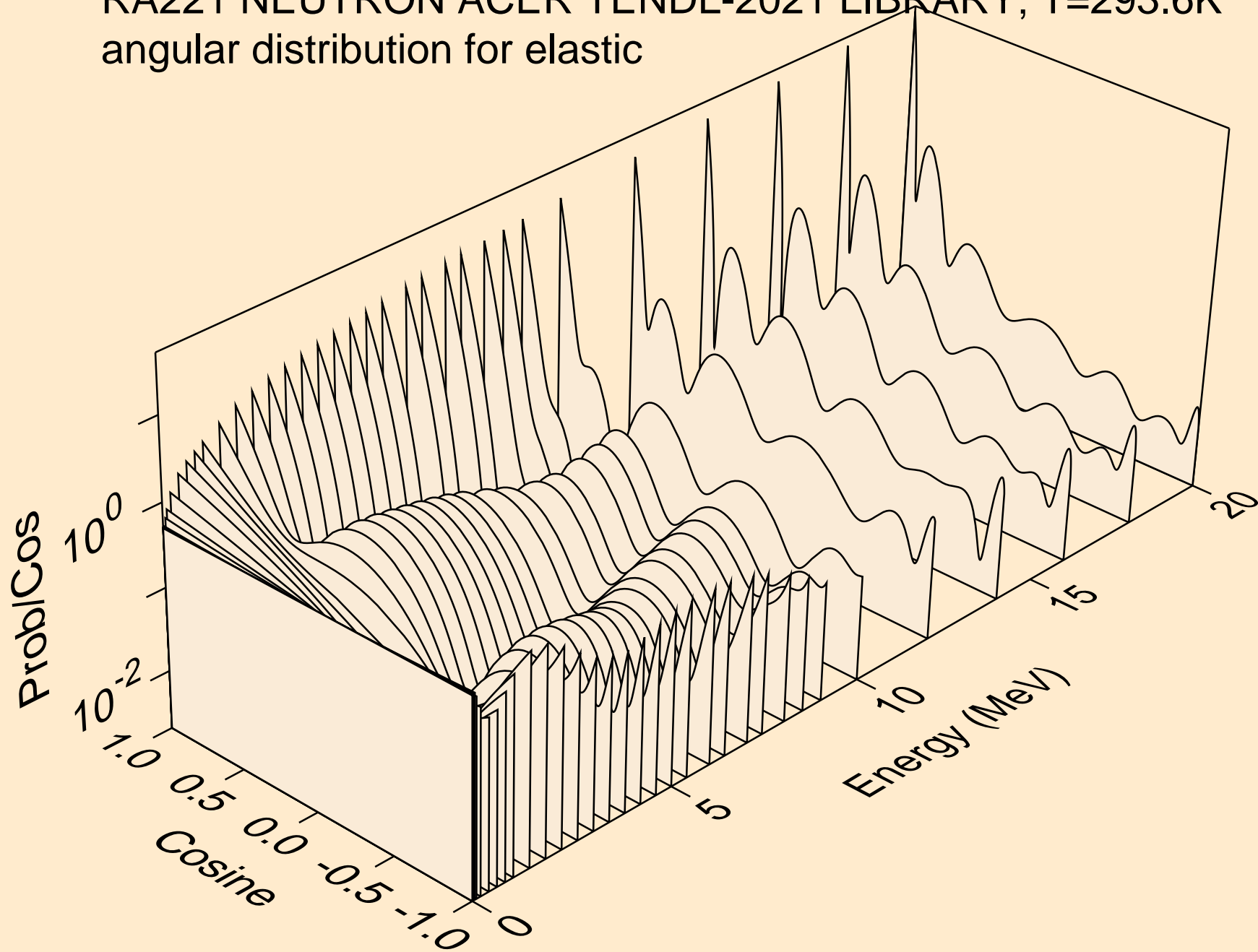
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Threshold reactions



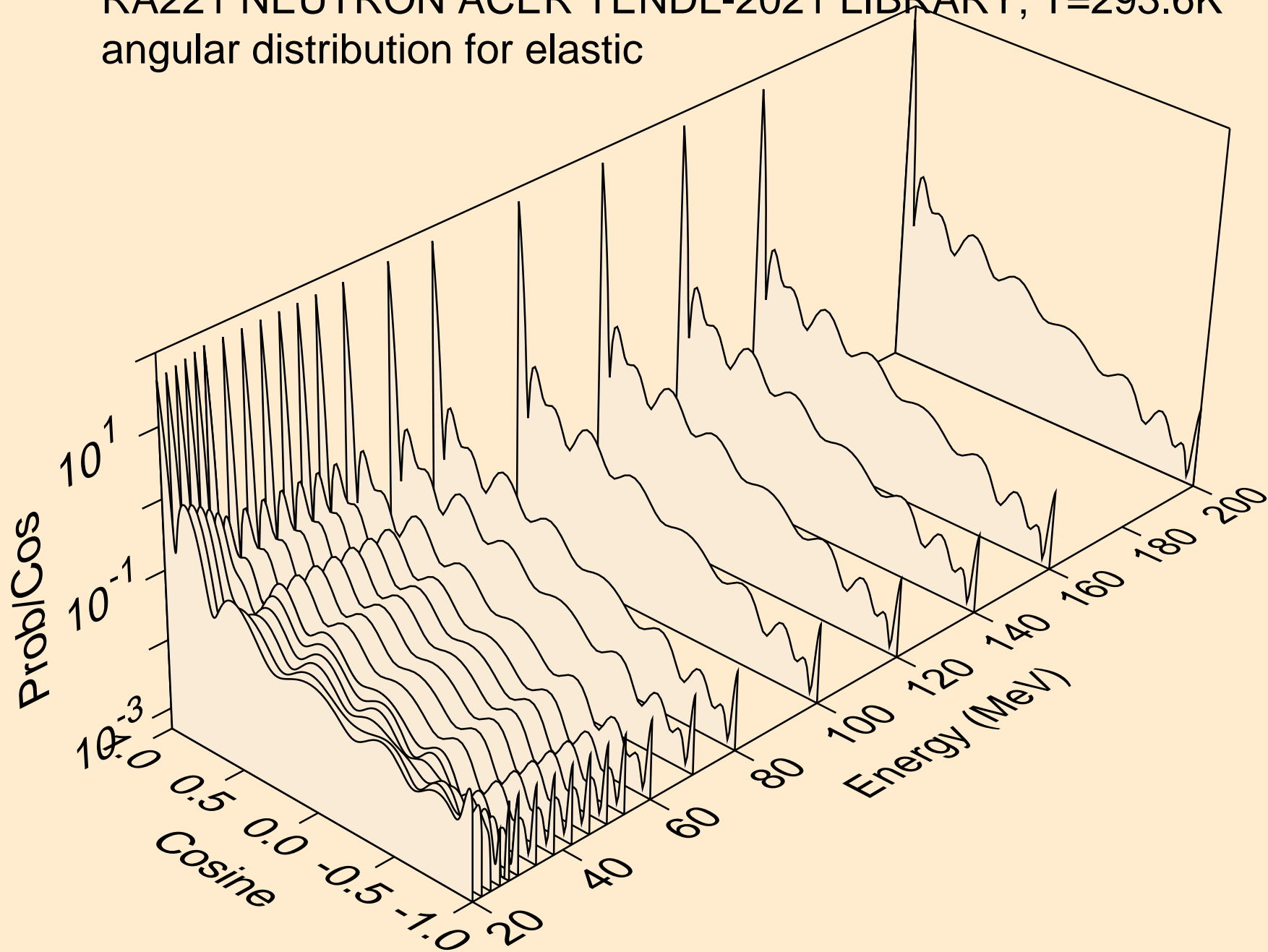
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Threshold reactions



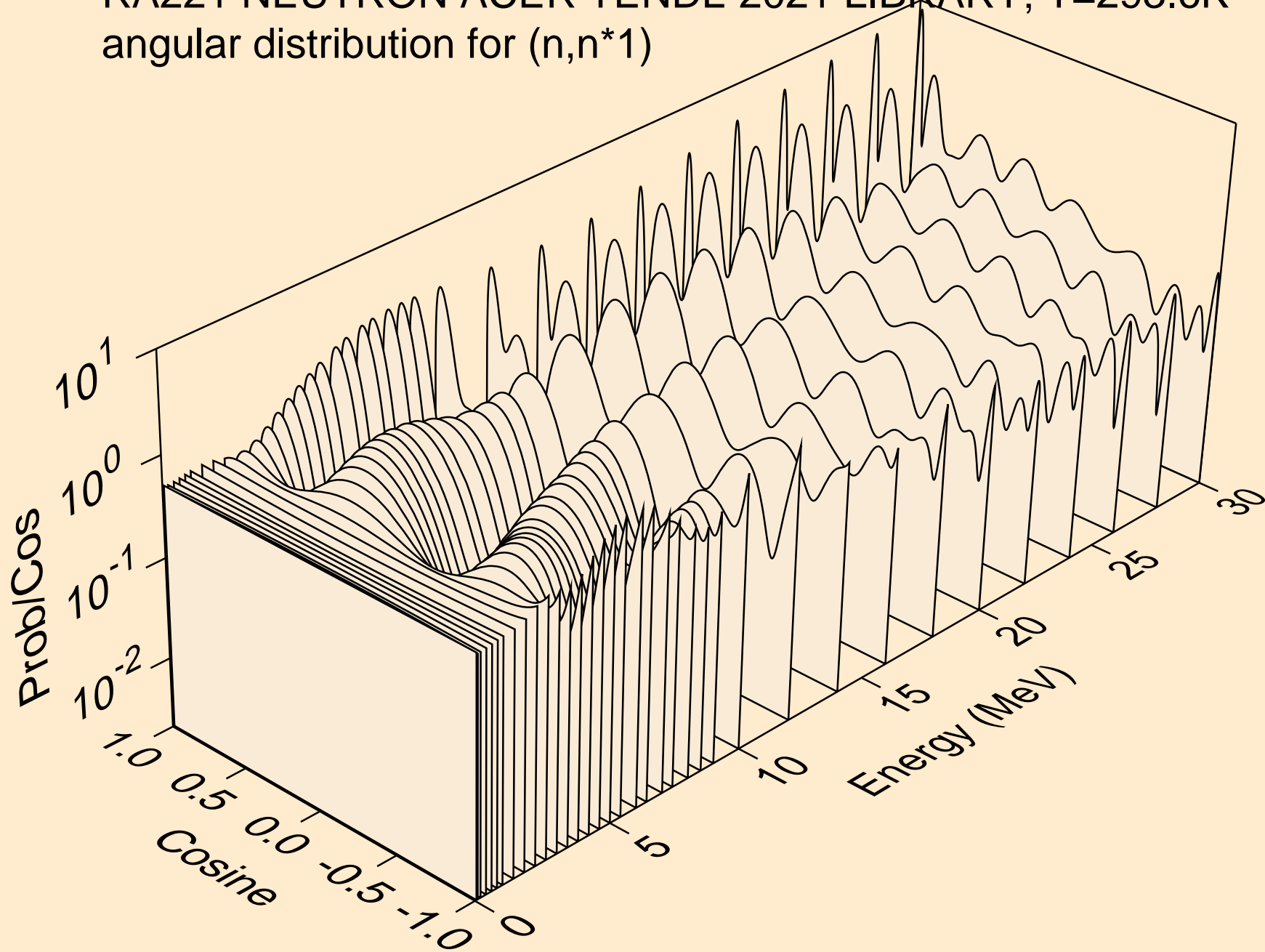
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angular distribution for elastic



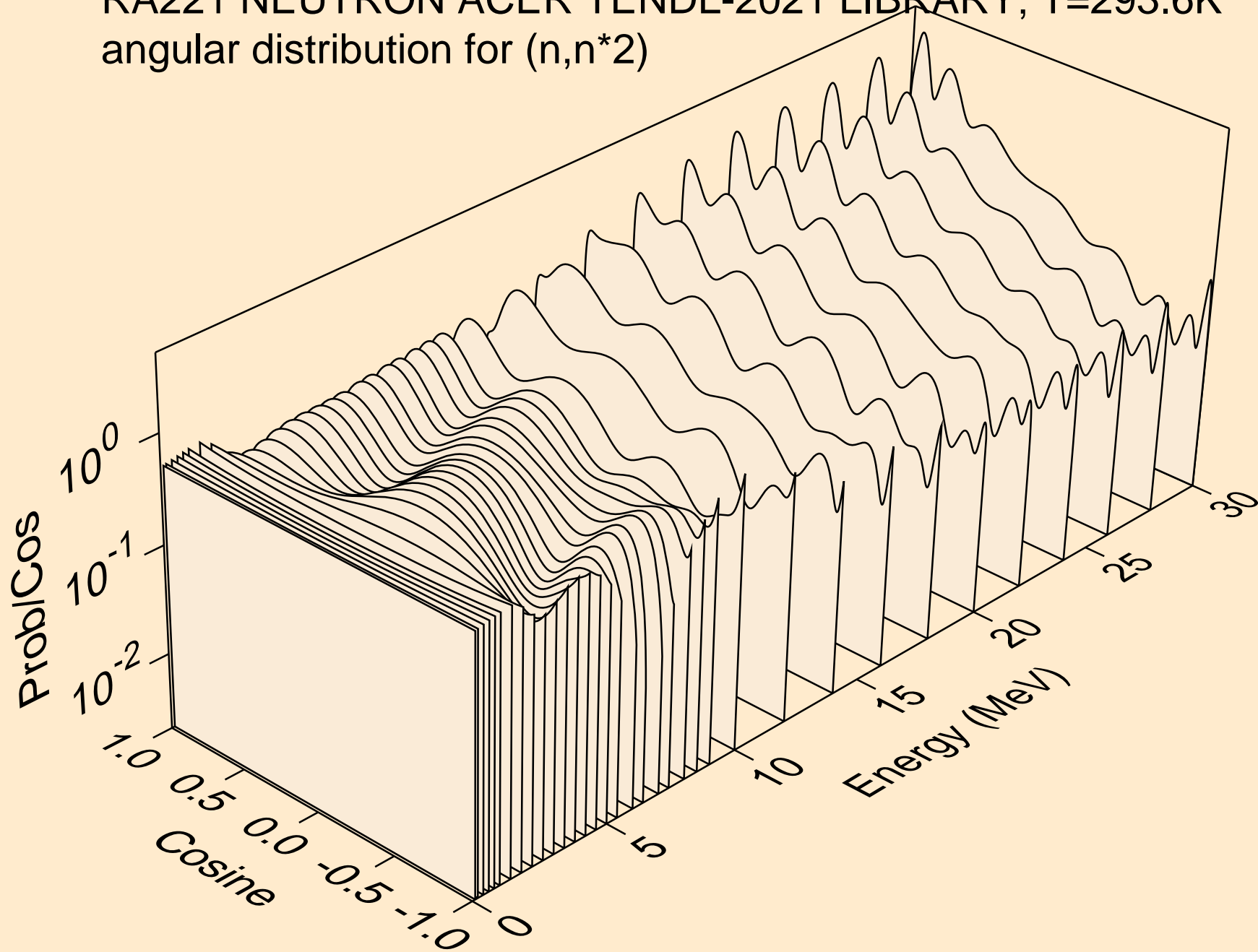
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angular distribution for elastic



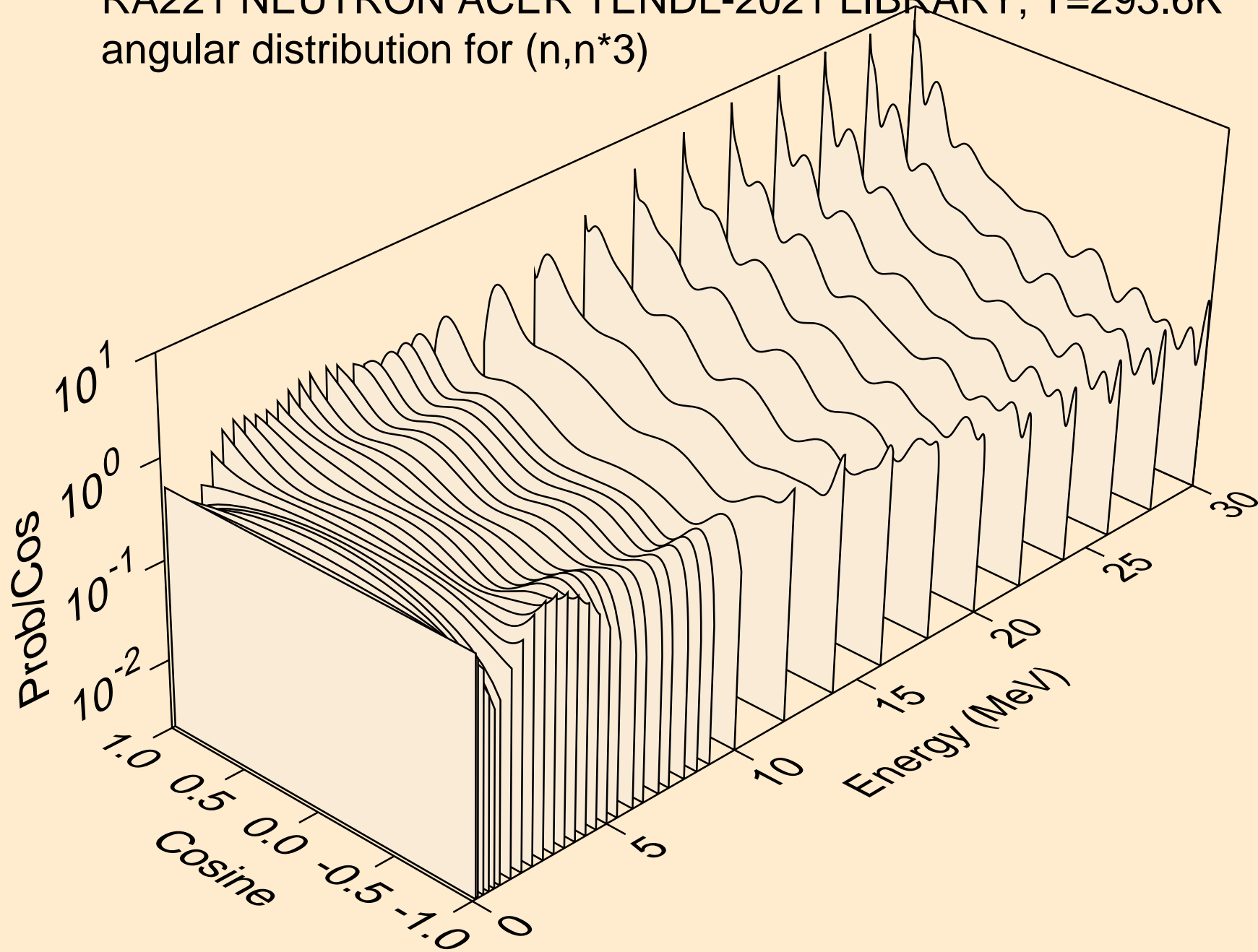
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angular distribution for (n,n\*1)



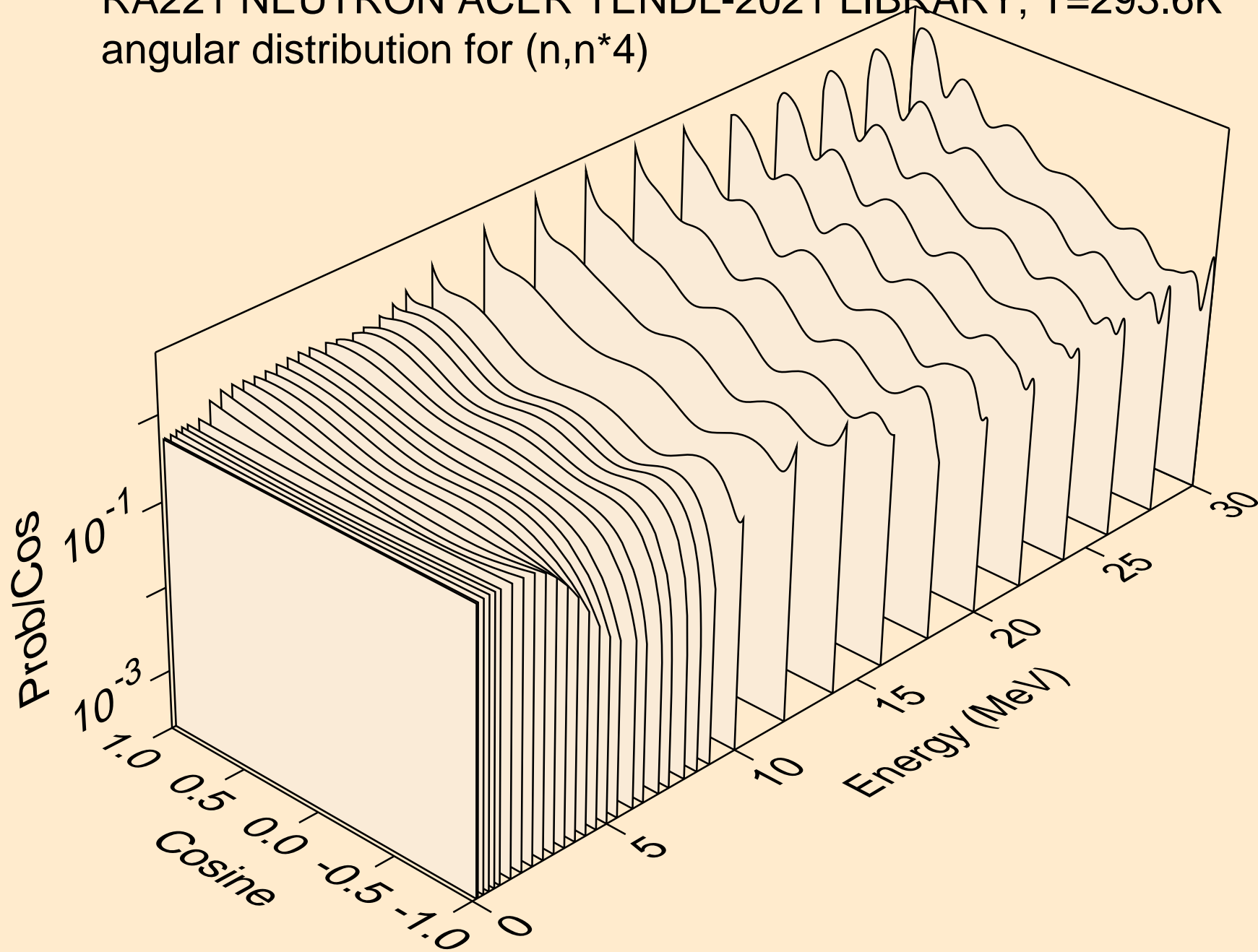
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)

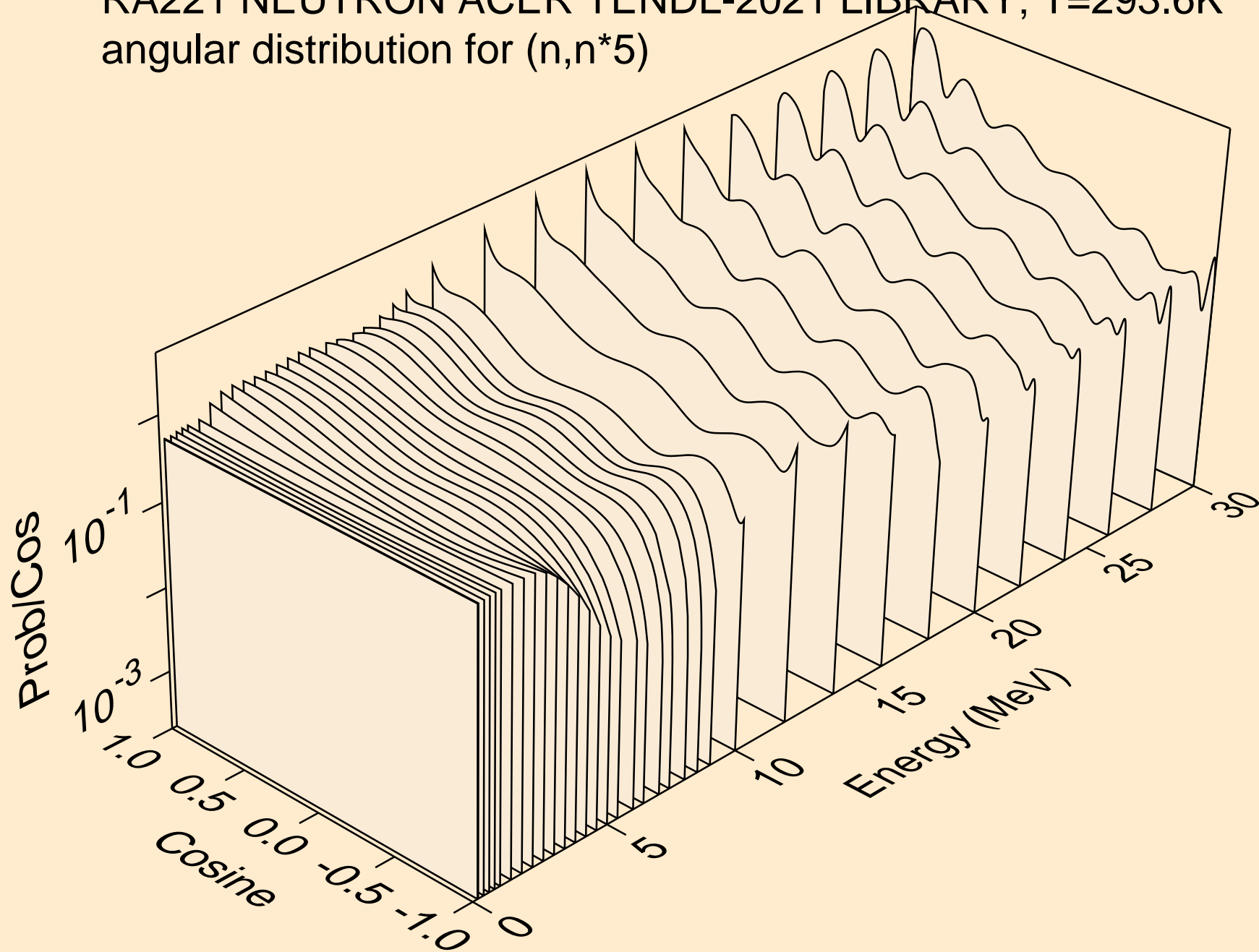


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angular distribution for (n,n\*4)

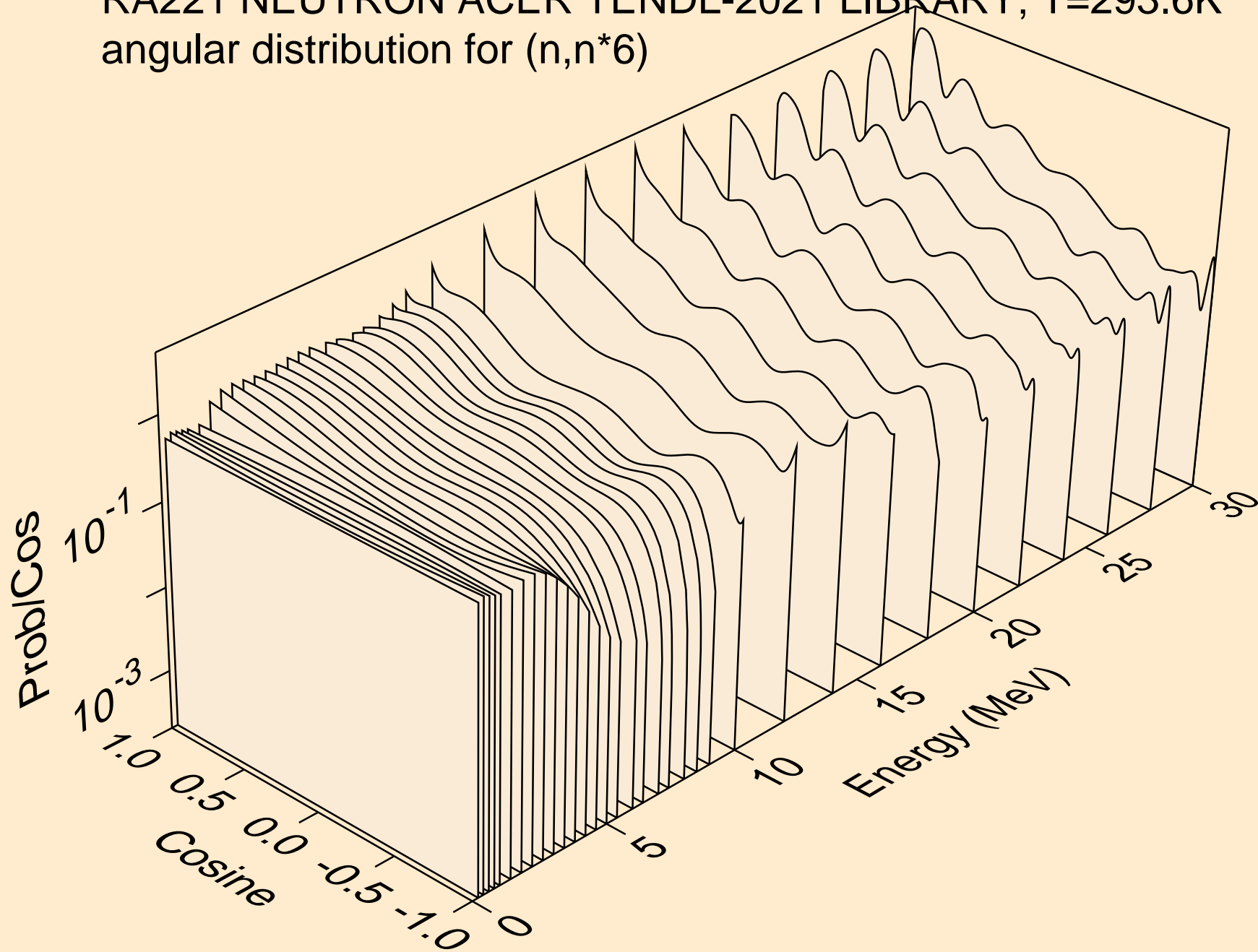




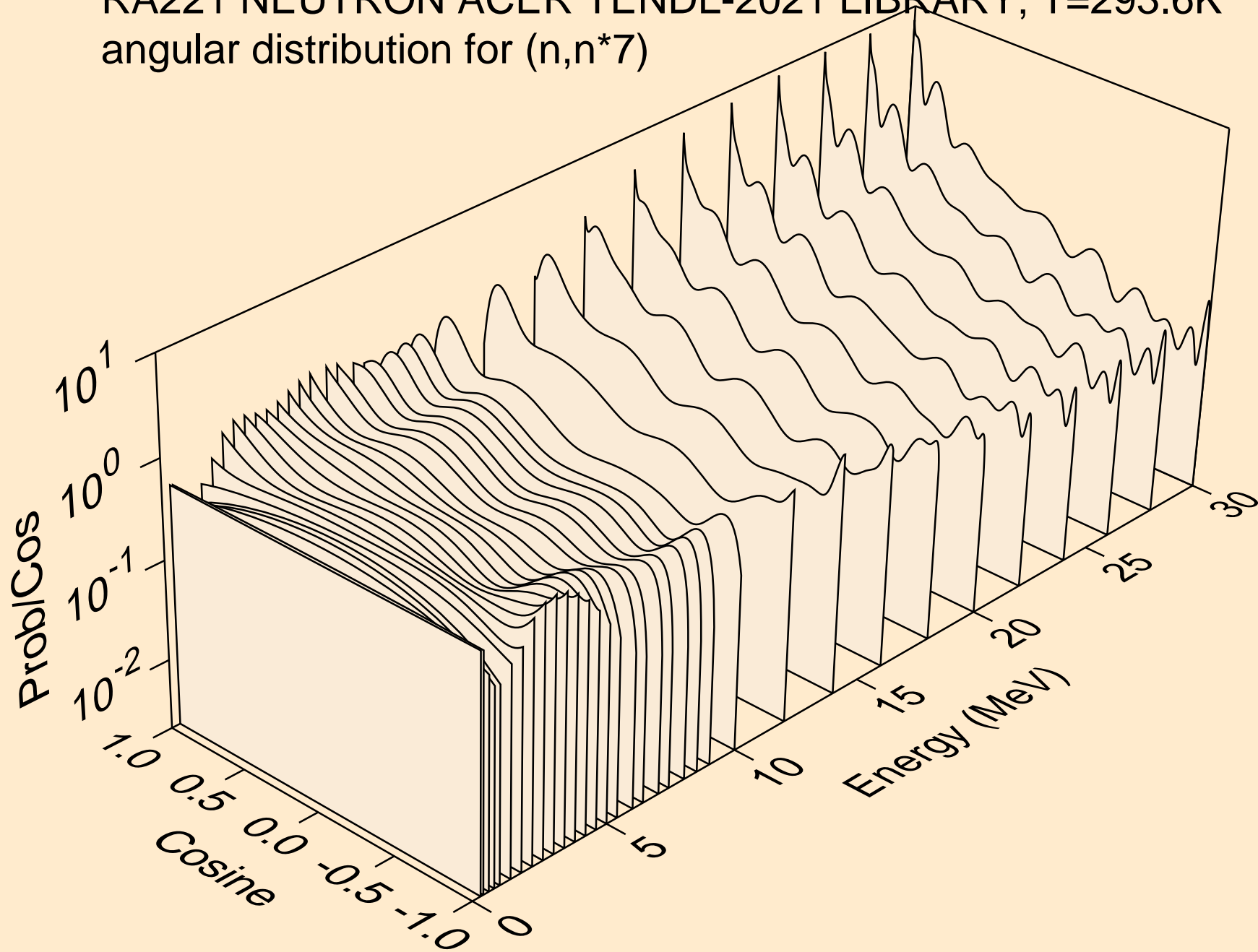
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angular distribution for (n,n\*5)



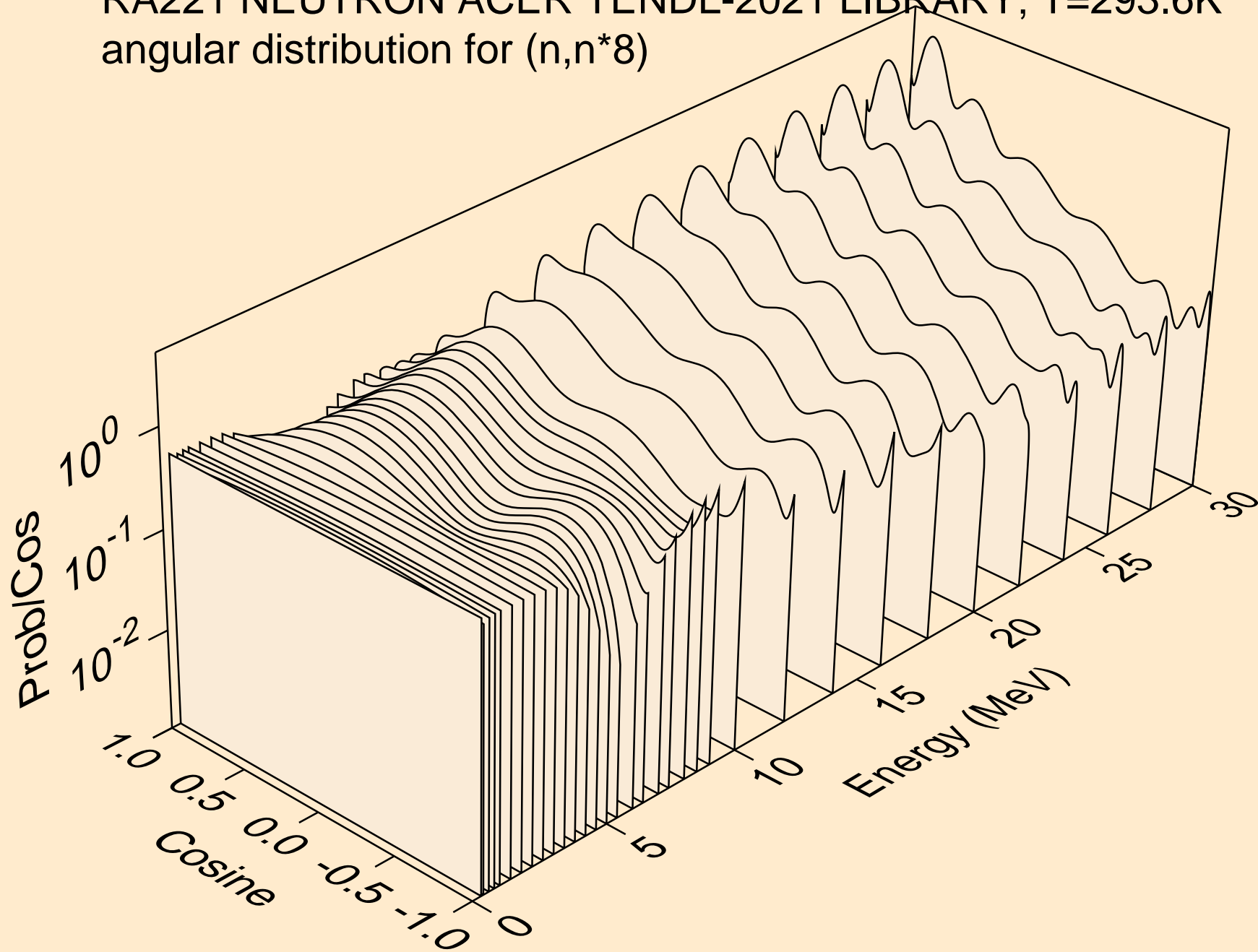
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angular distribution for (n,n\*6)



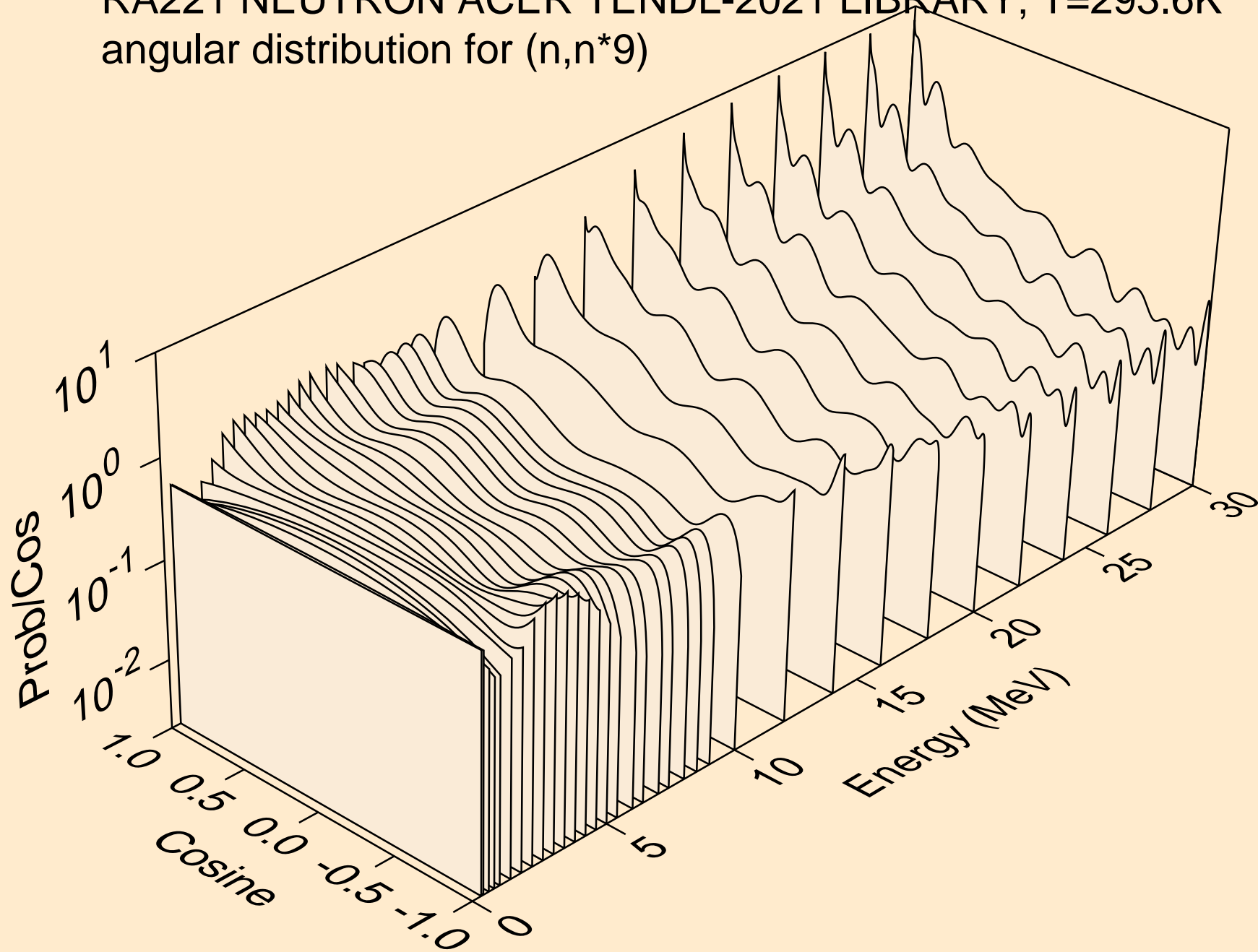
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angular distribution for (n,n\*7)



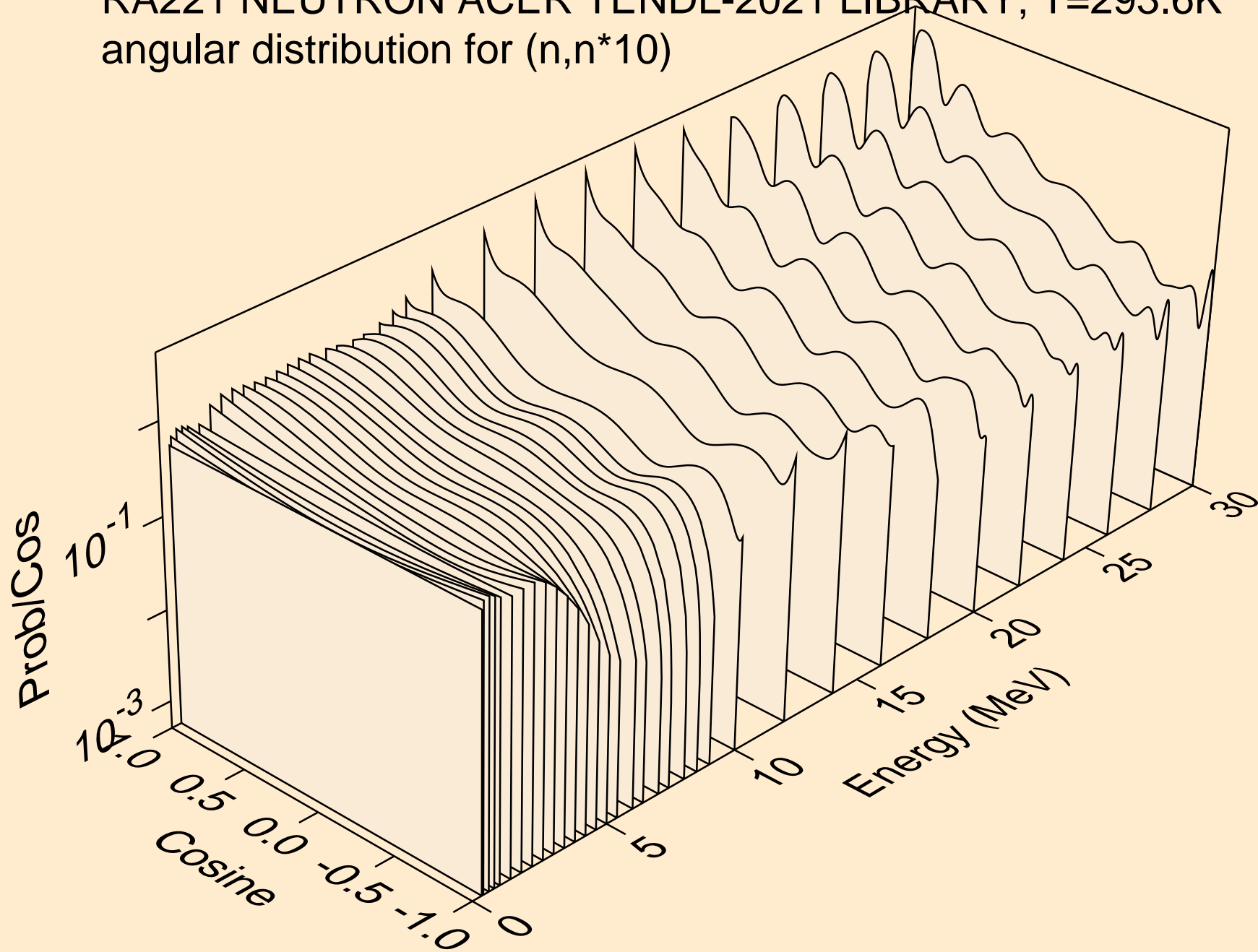
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angular distribution for (n,n\*8)



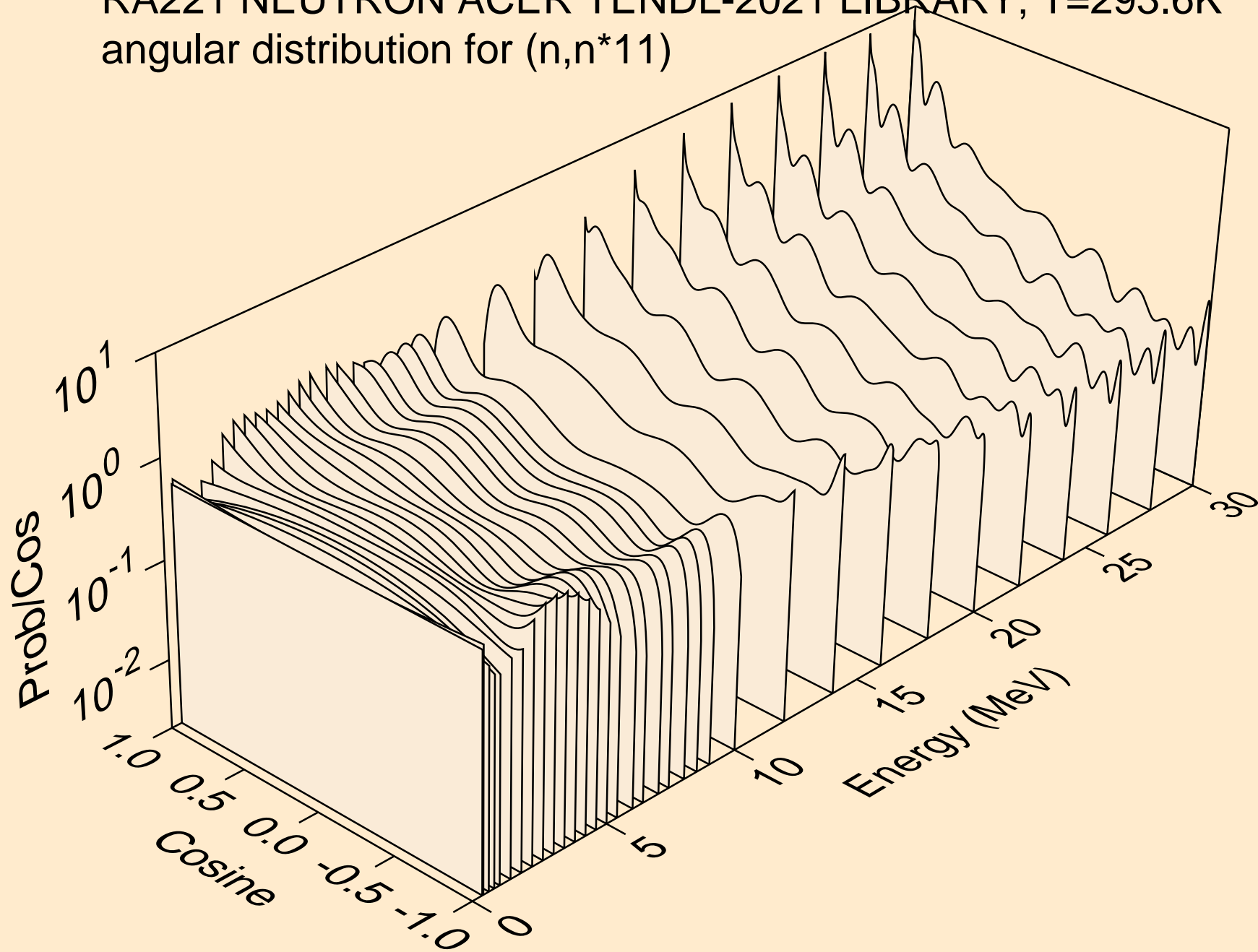
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)

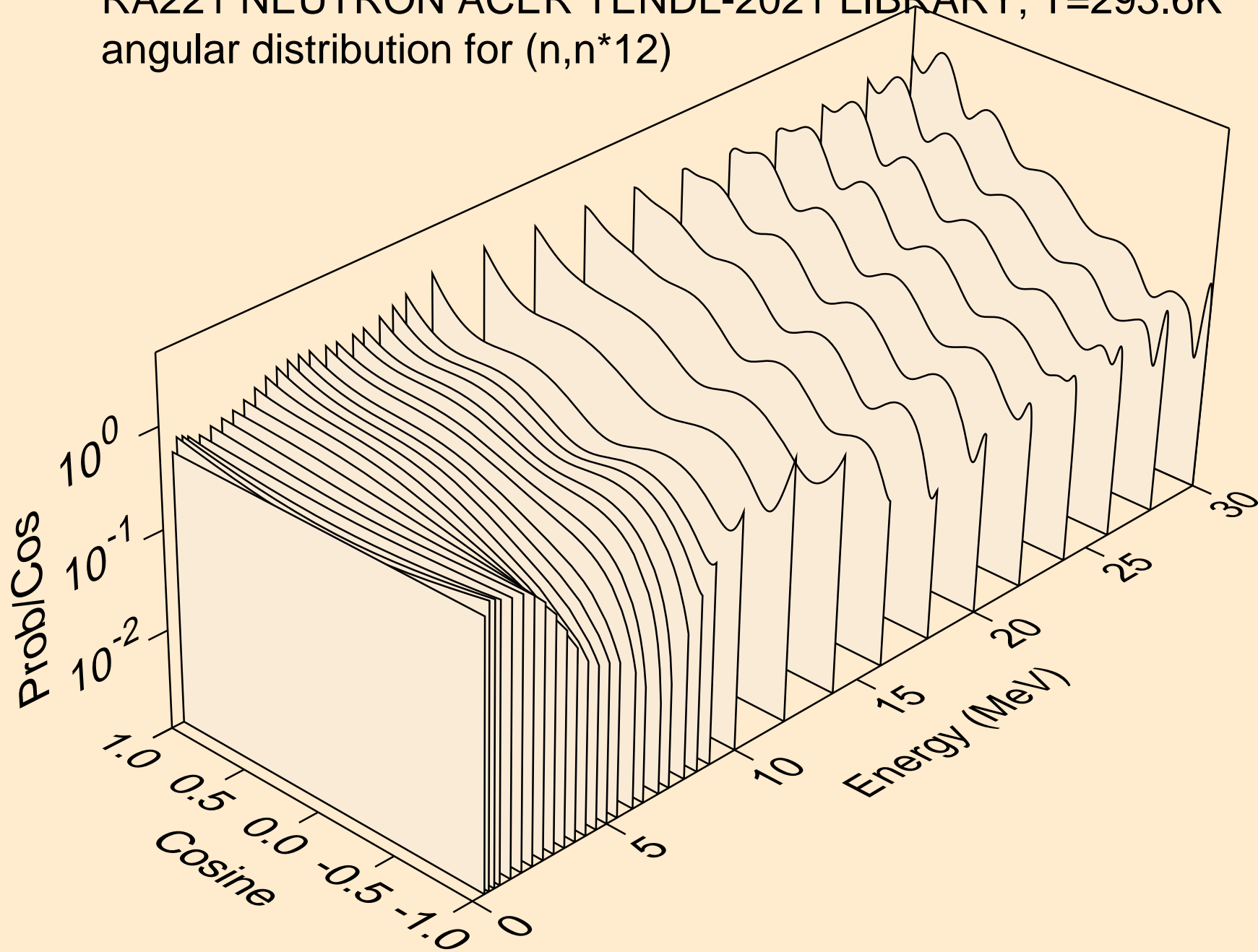


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angular distribution for (n,n\*11)



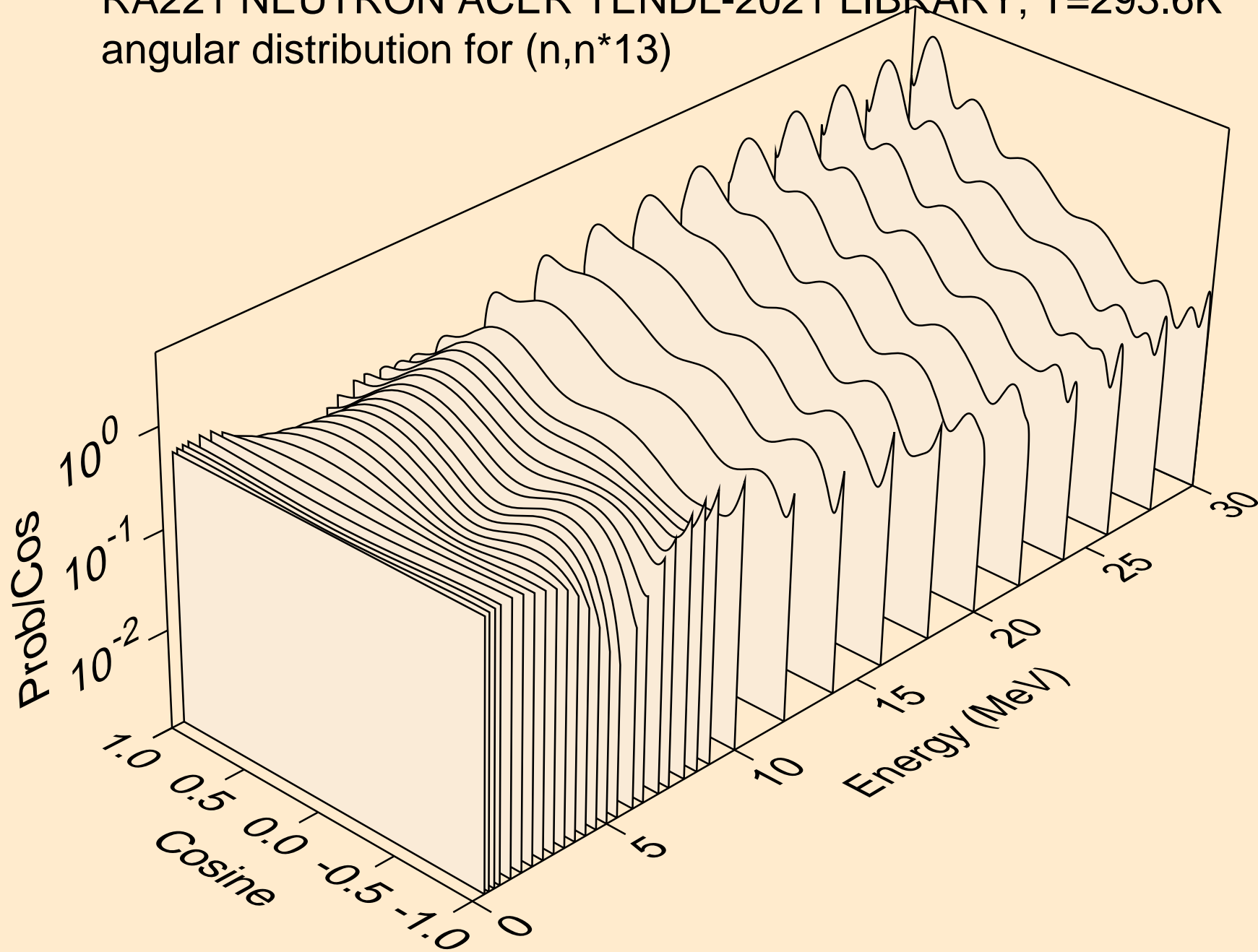


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angular distribution for (n,n\*12)

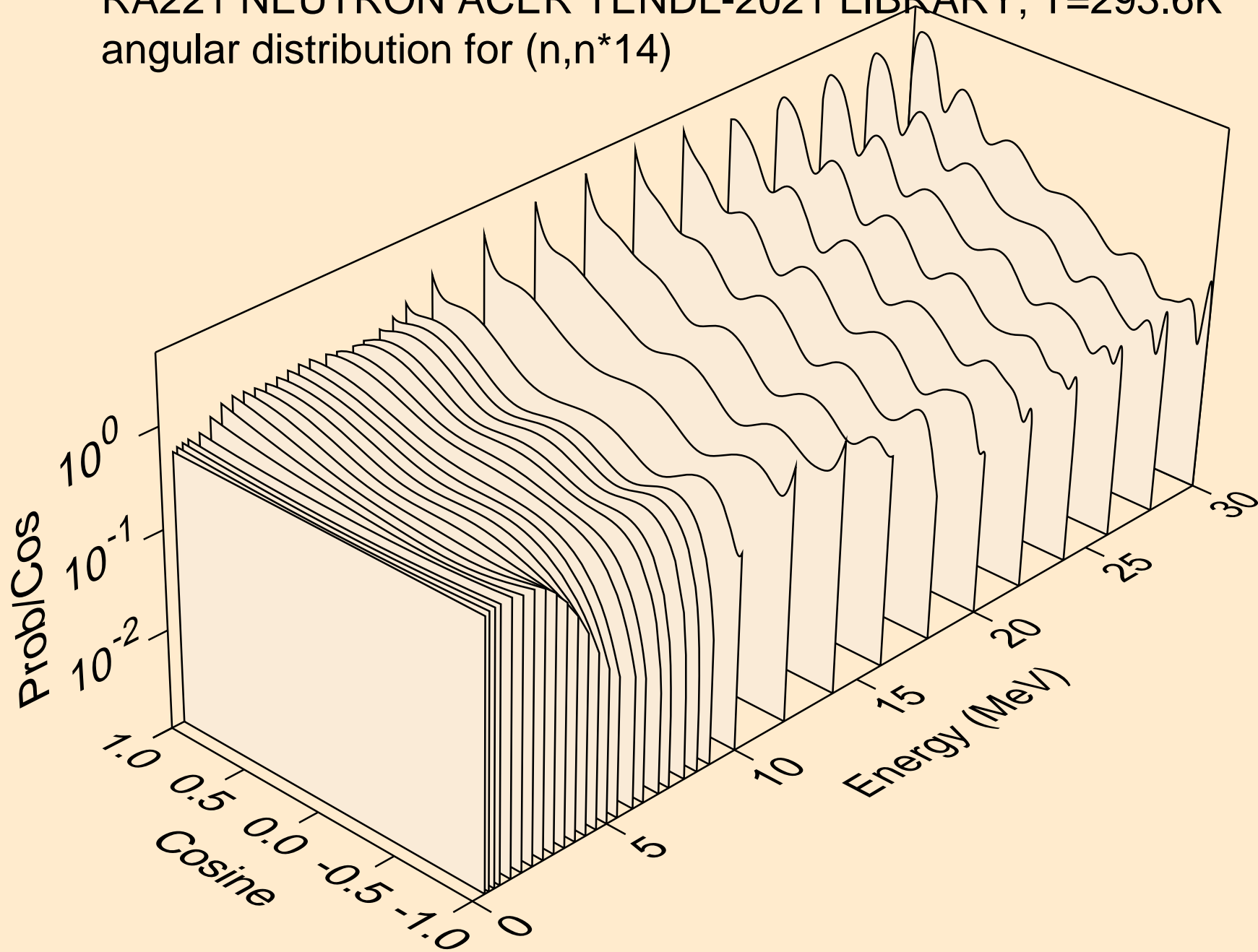




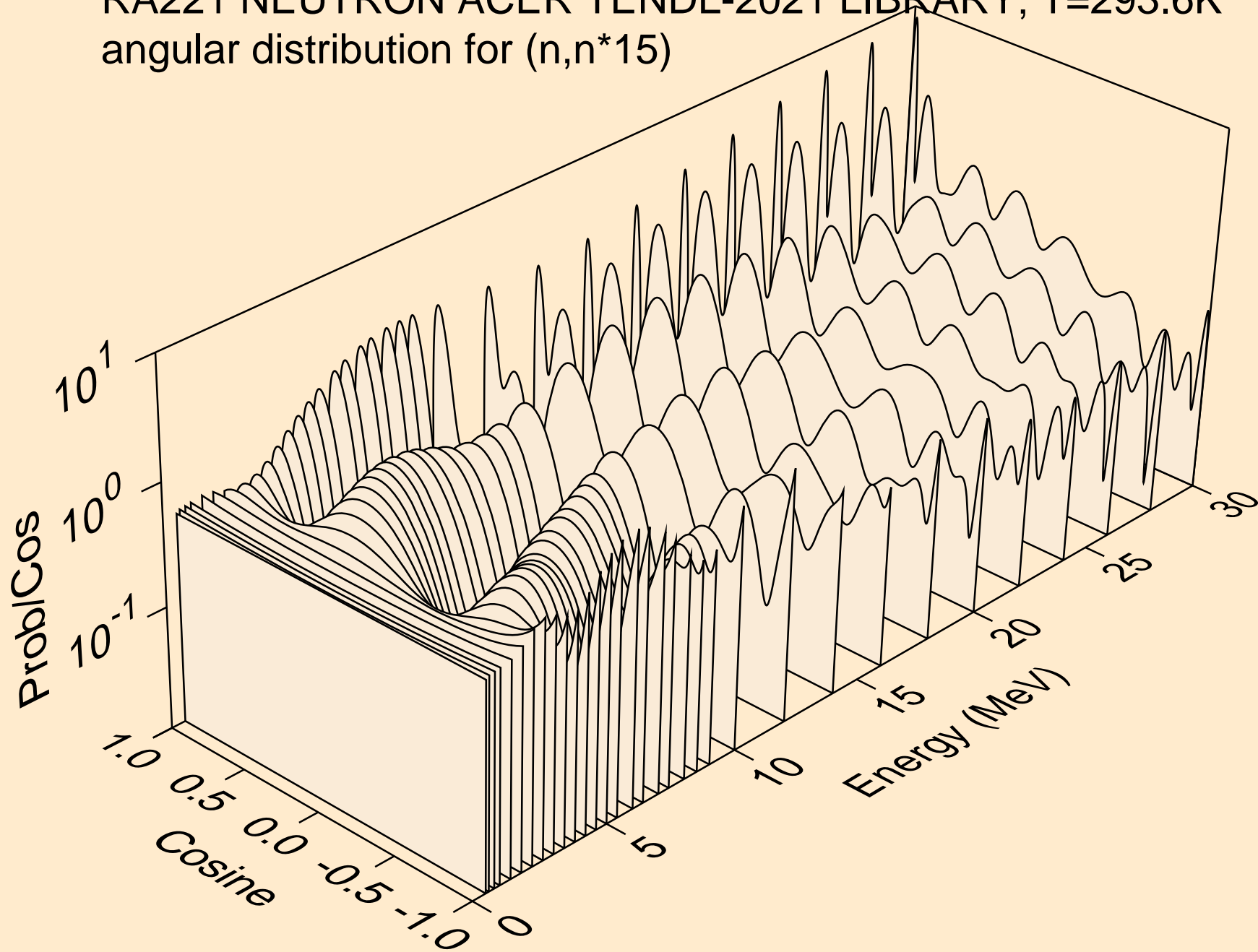
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angular distribution for (n,n\*13)



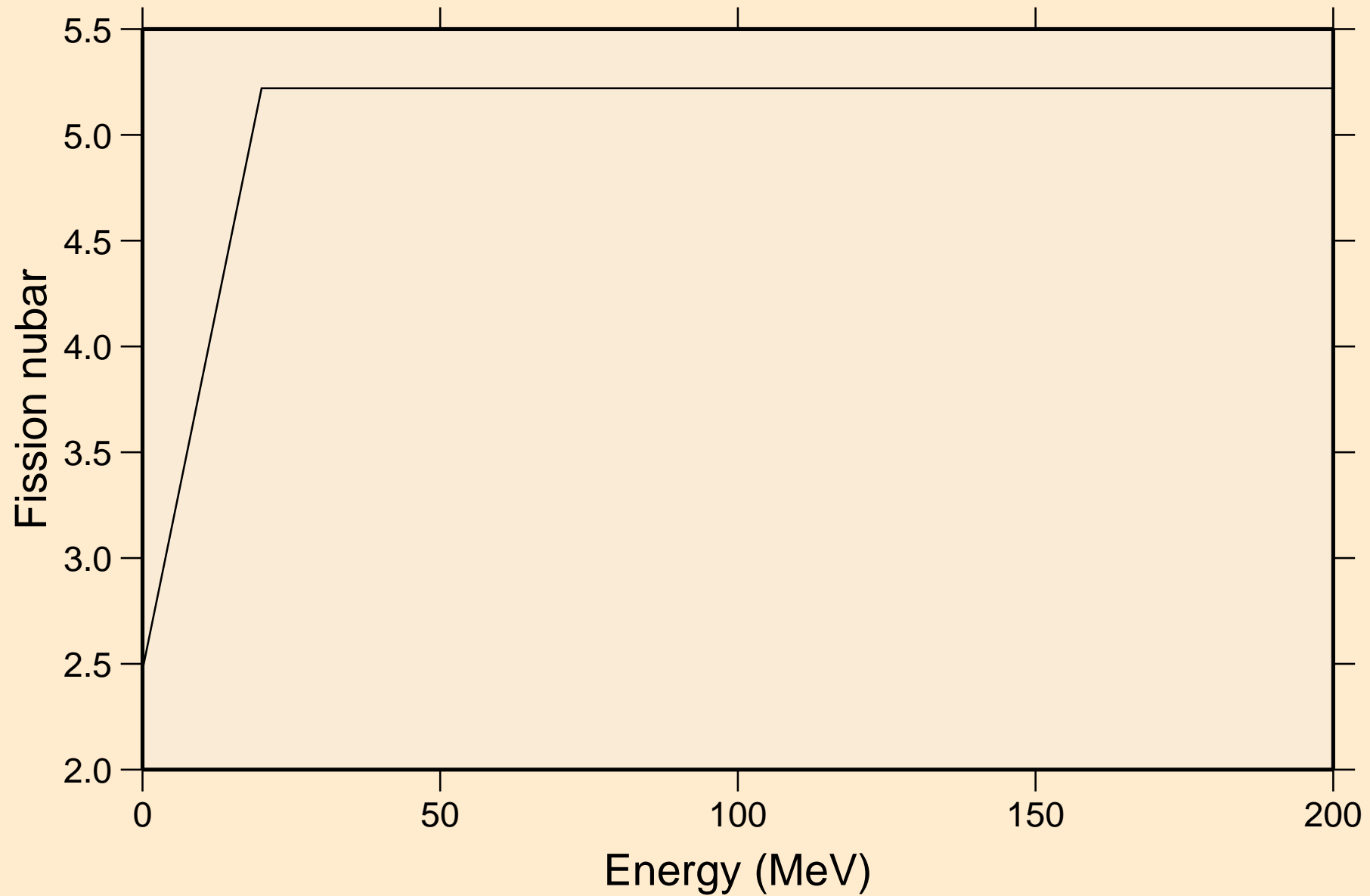
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angular distribution for (n,n\*14)



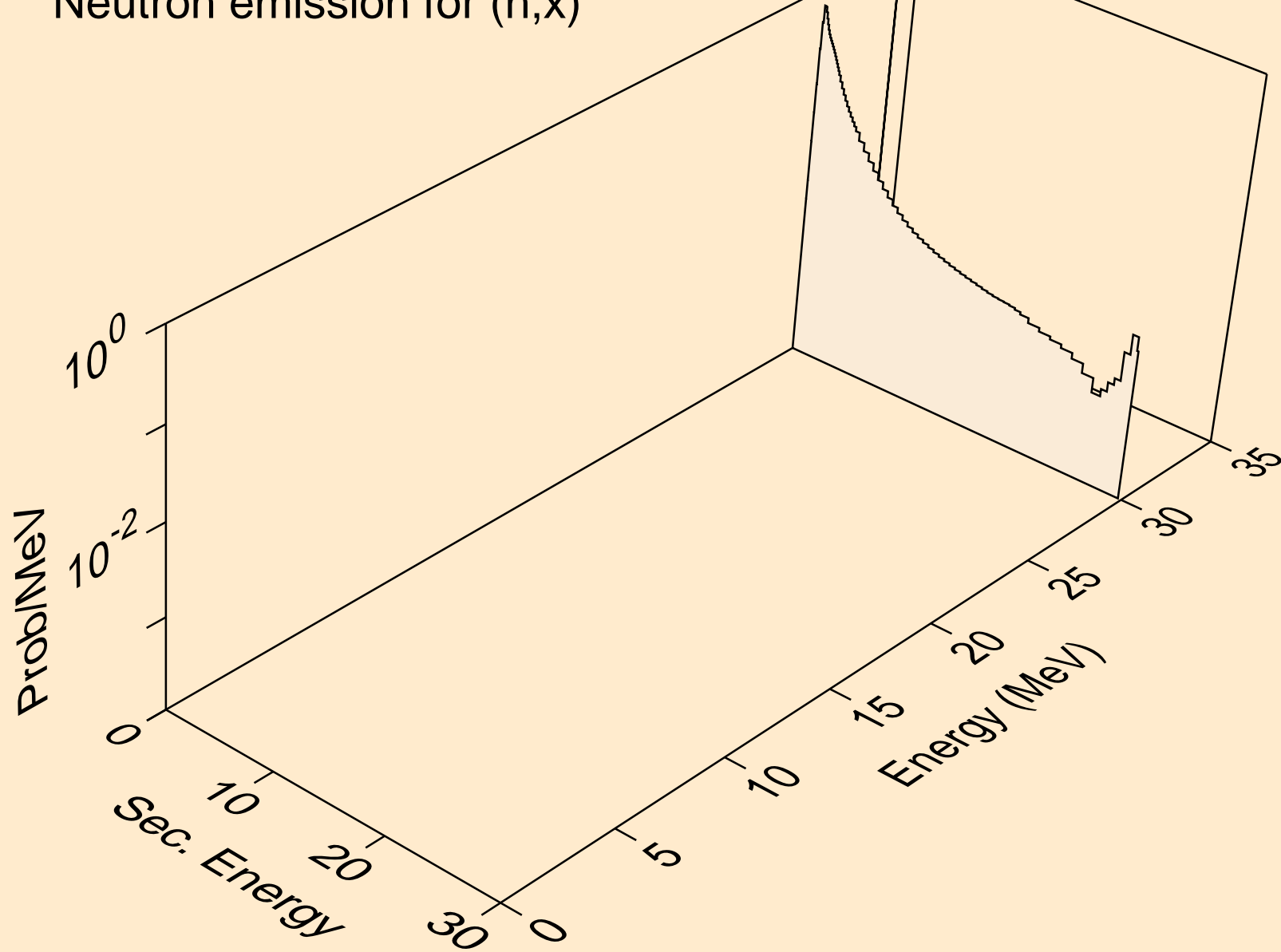
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angular distribution for (n,n\*15)



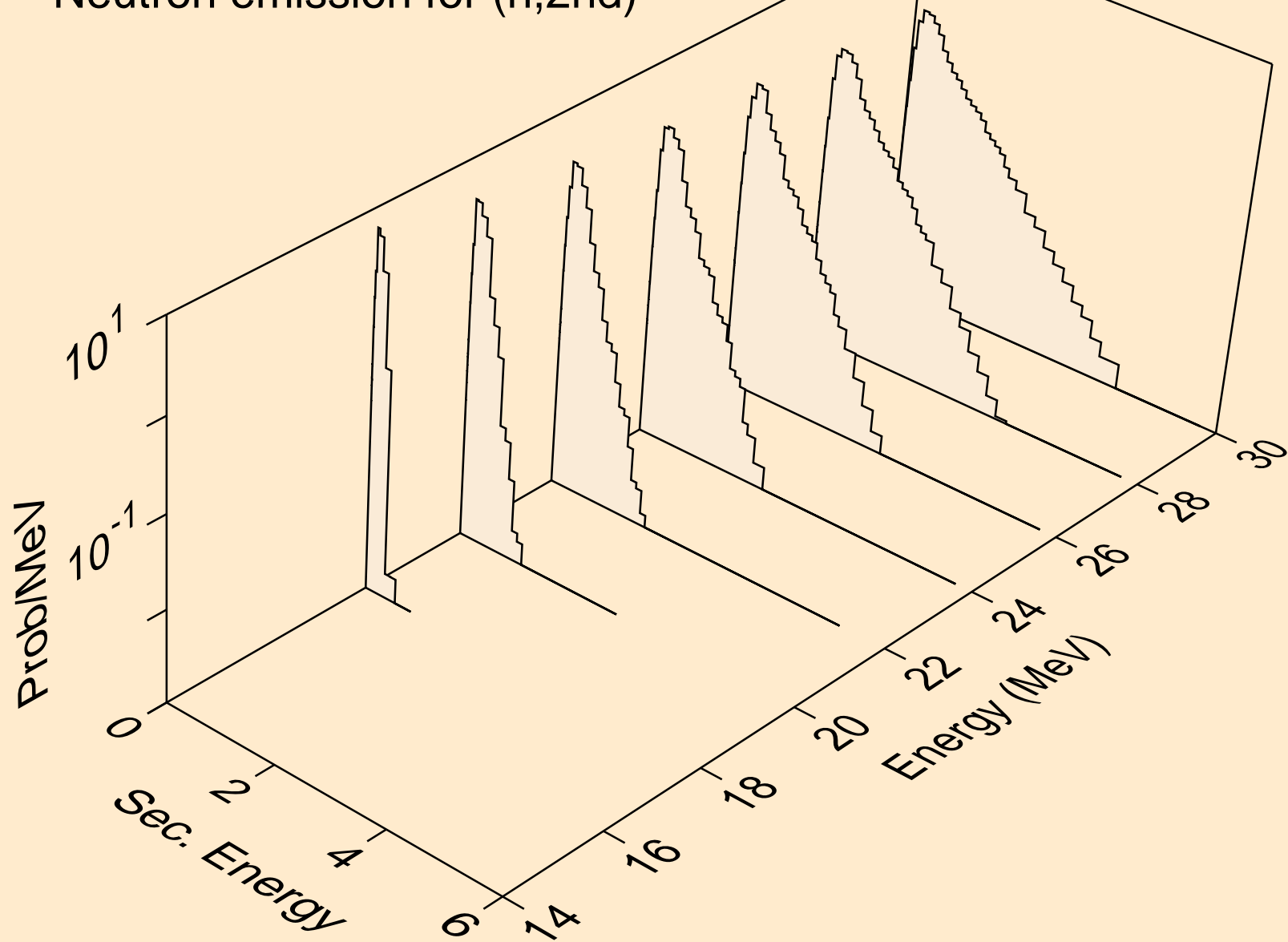
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Total fission nubar



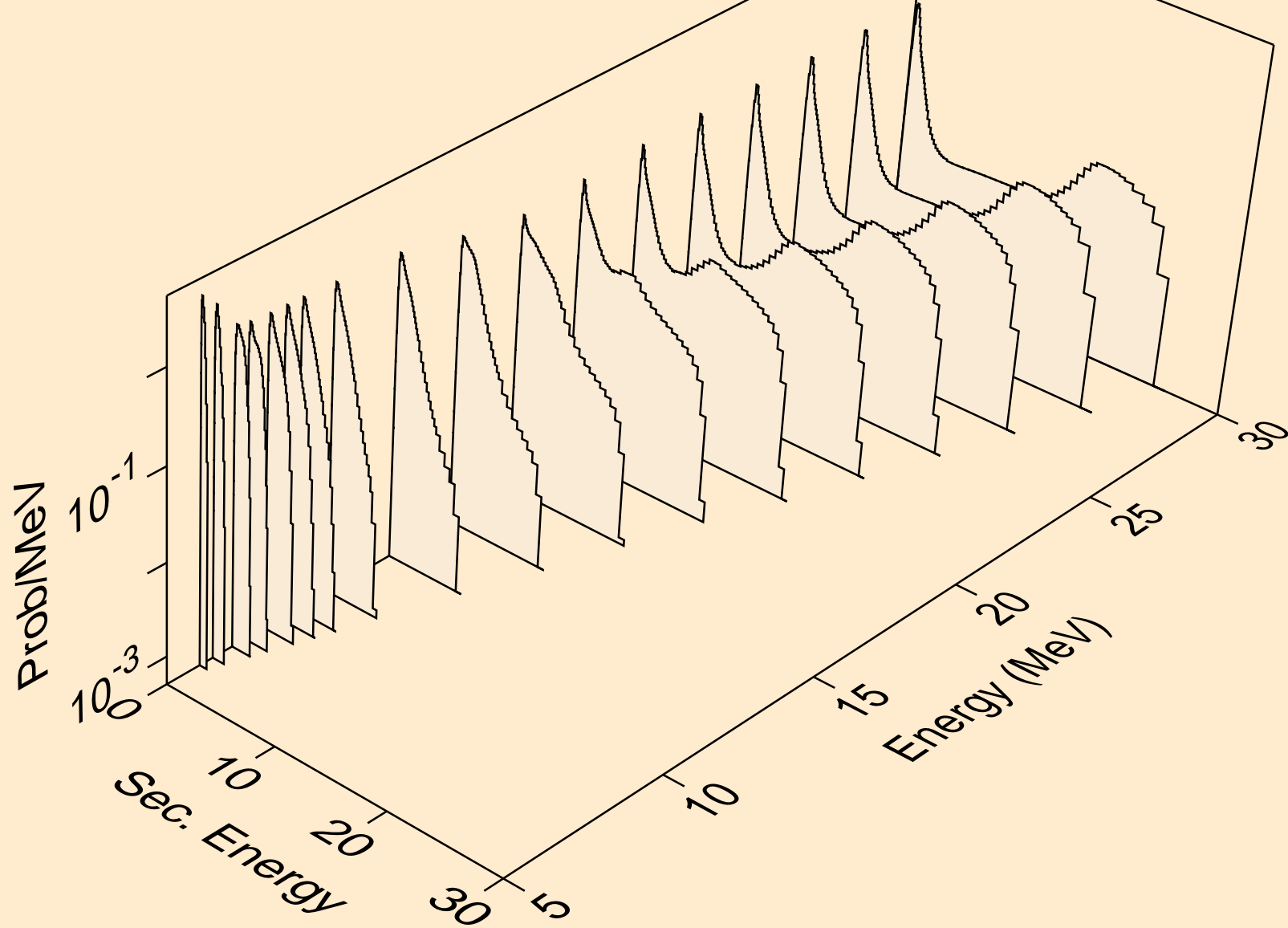
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Neutron emission for (n,x)



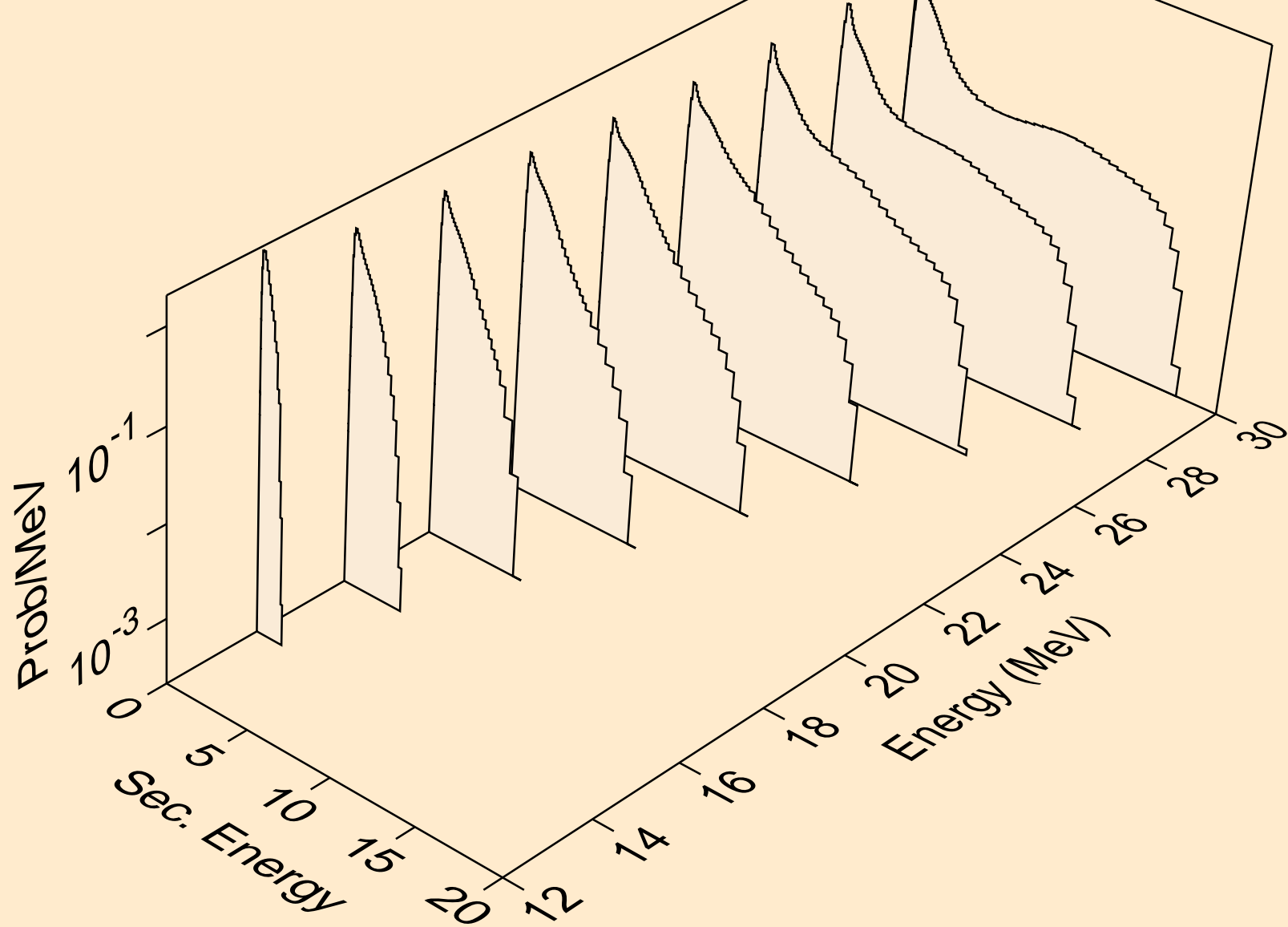
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

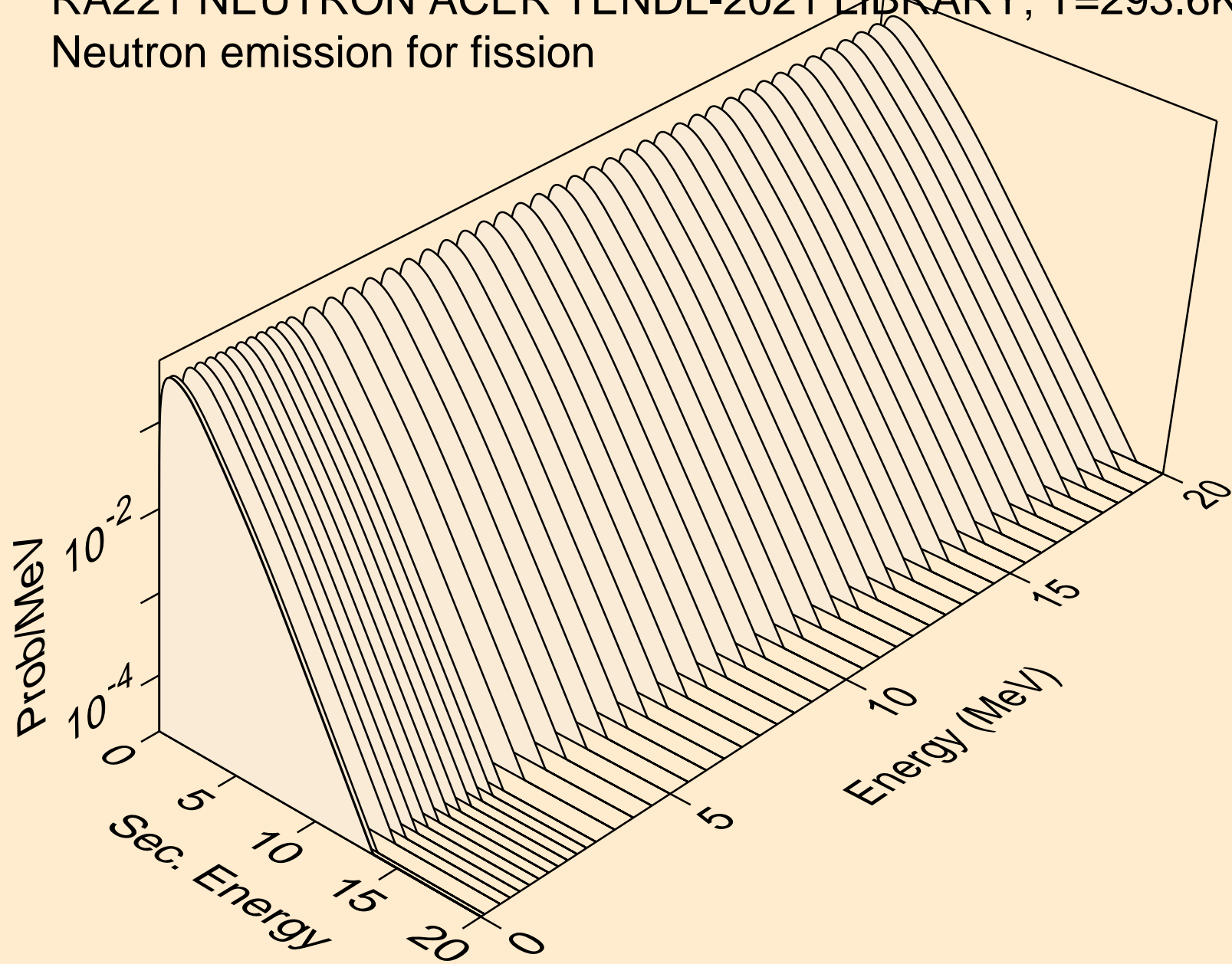


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)

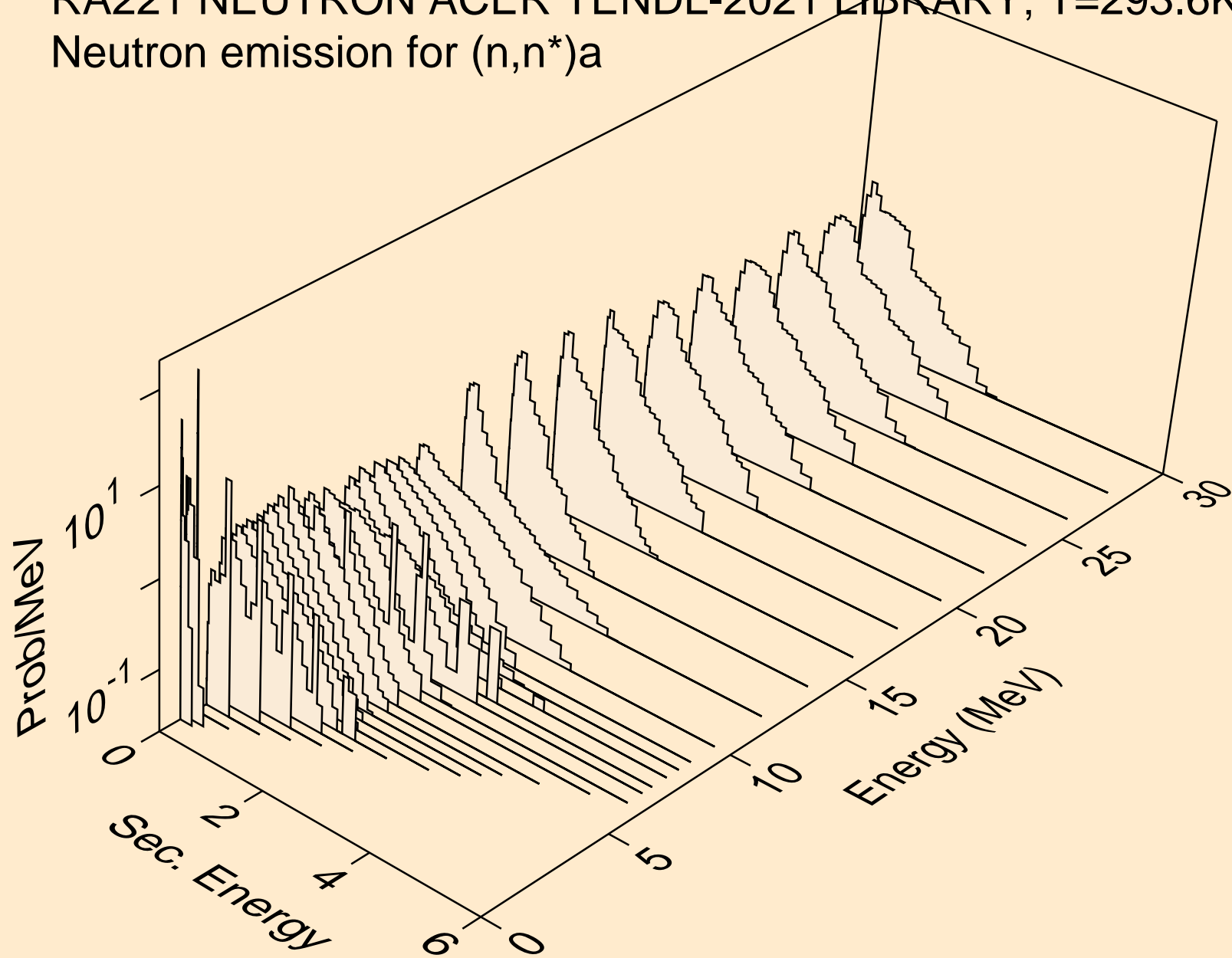




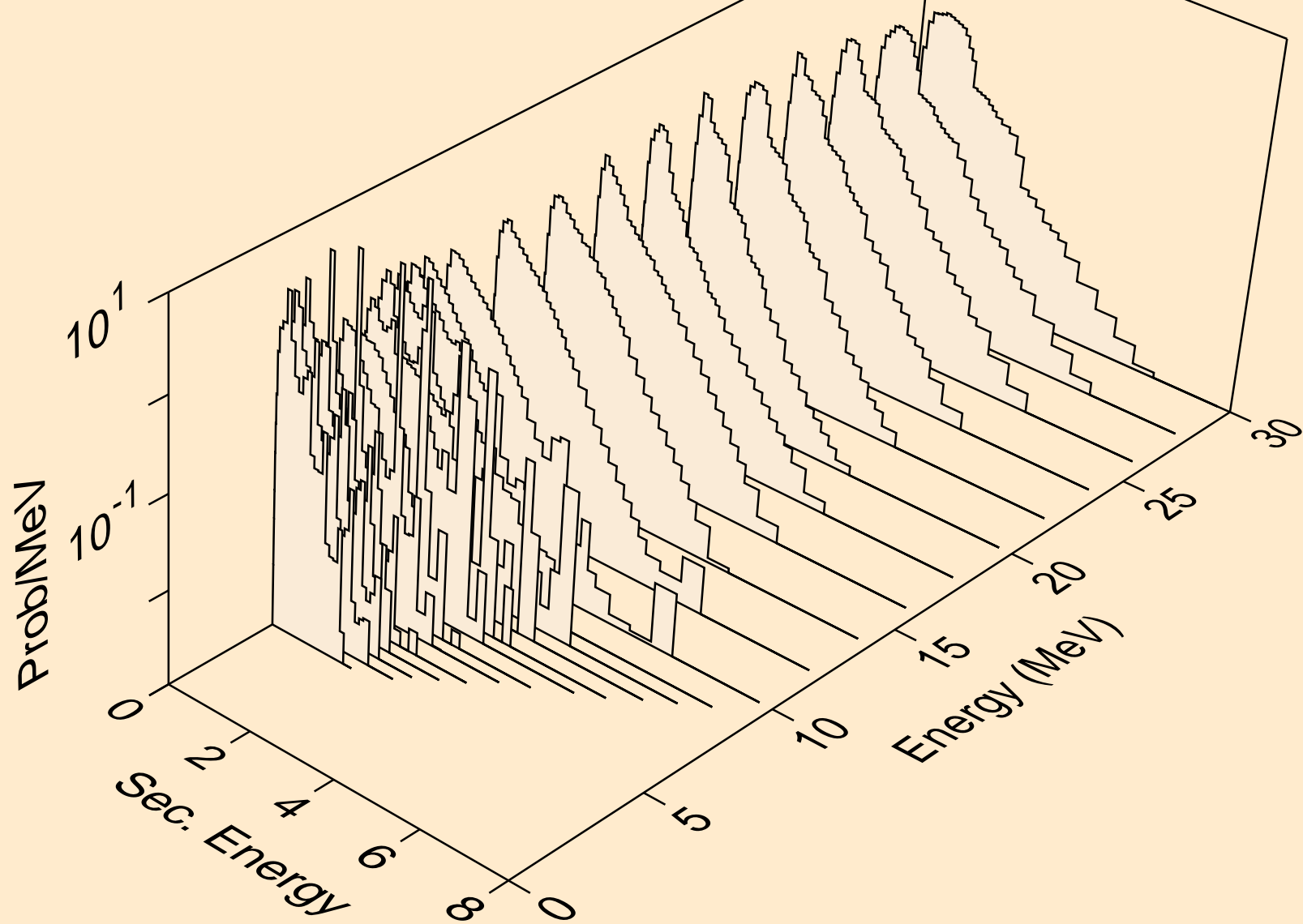
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Neutron emission for fission



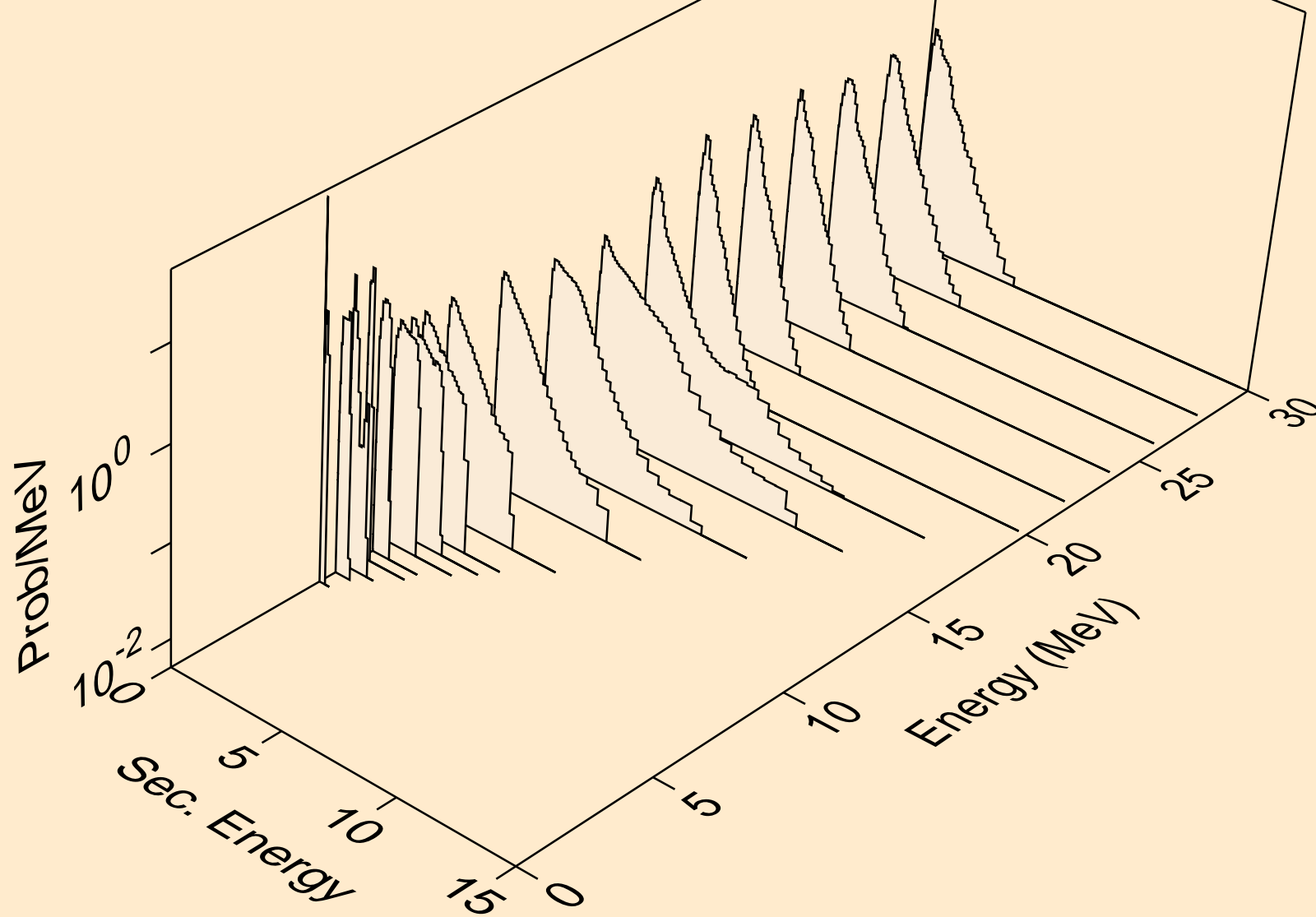
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Neutron emission for (n,n\*)a



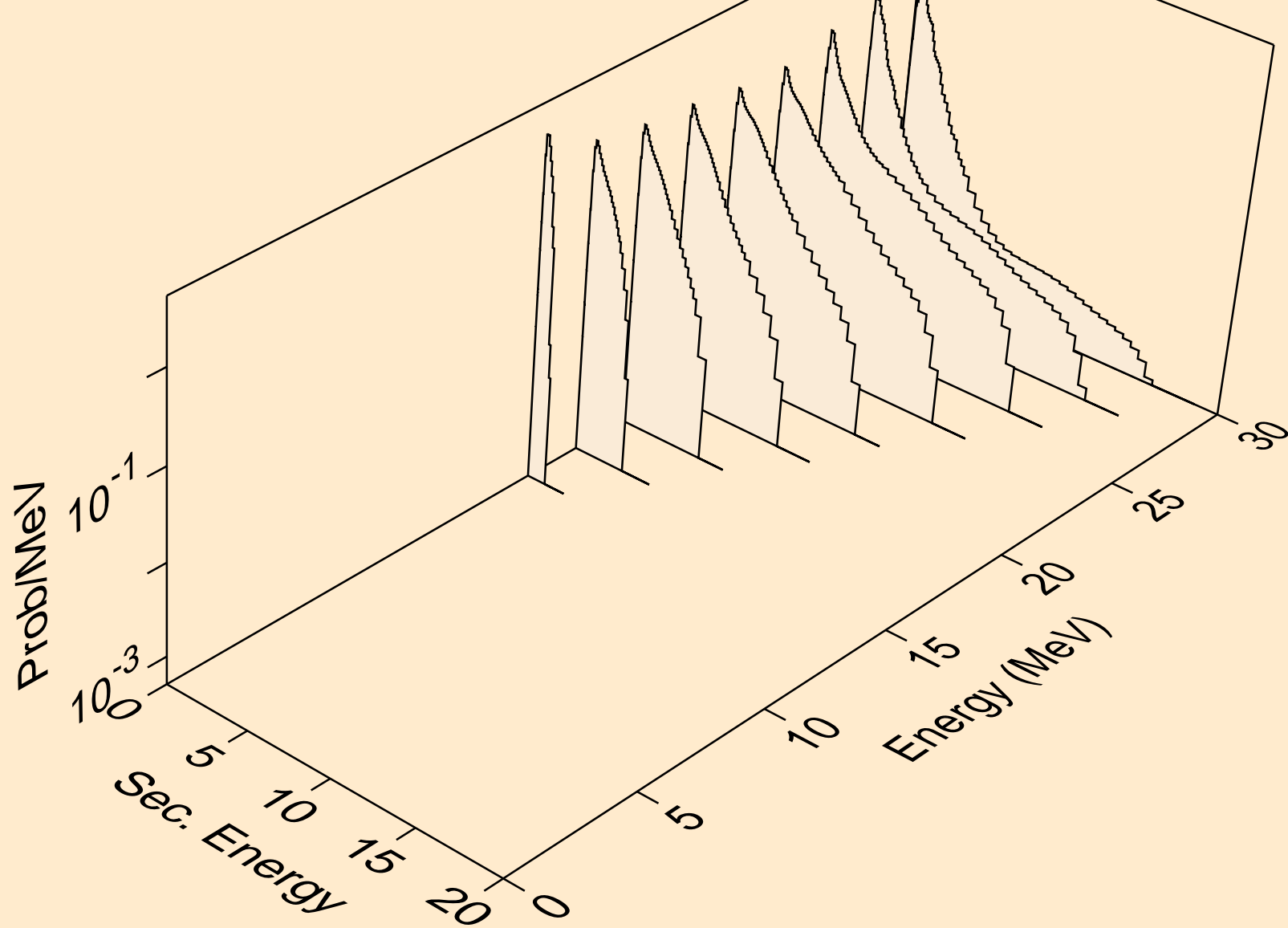
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Neutron emission for (n,n\*)3a



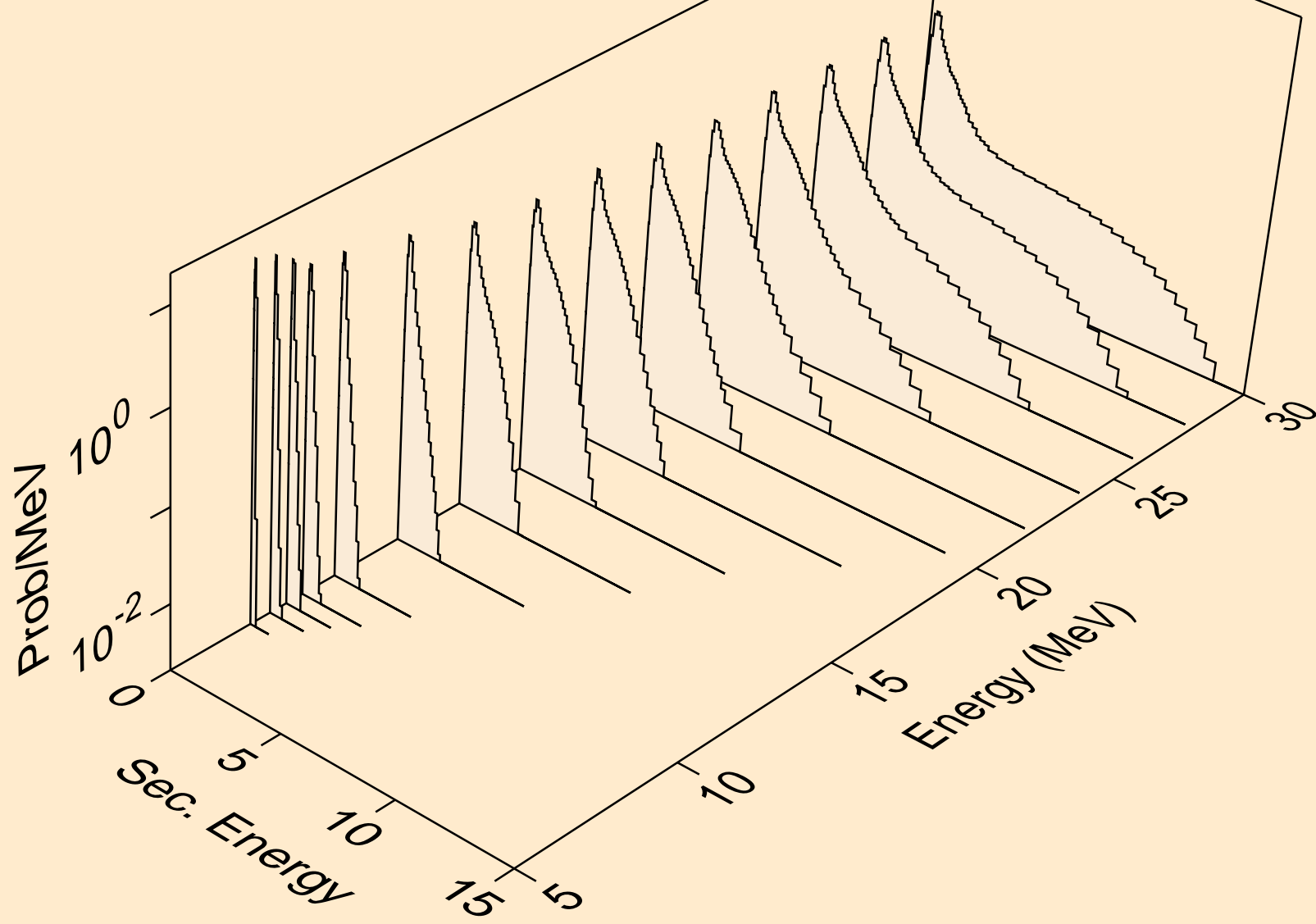
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Neutron emission for (n,2n)a



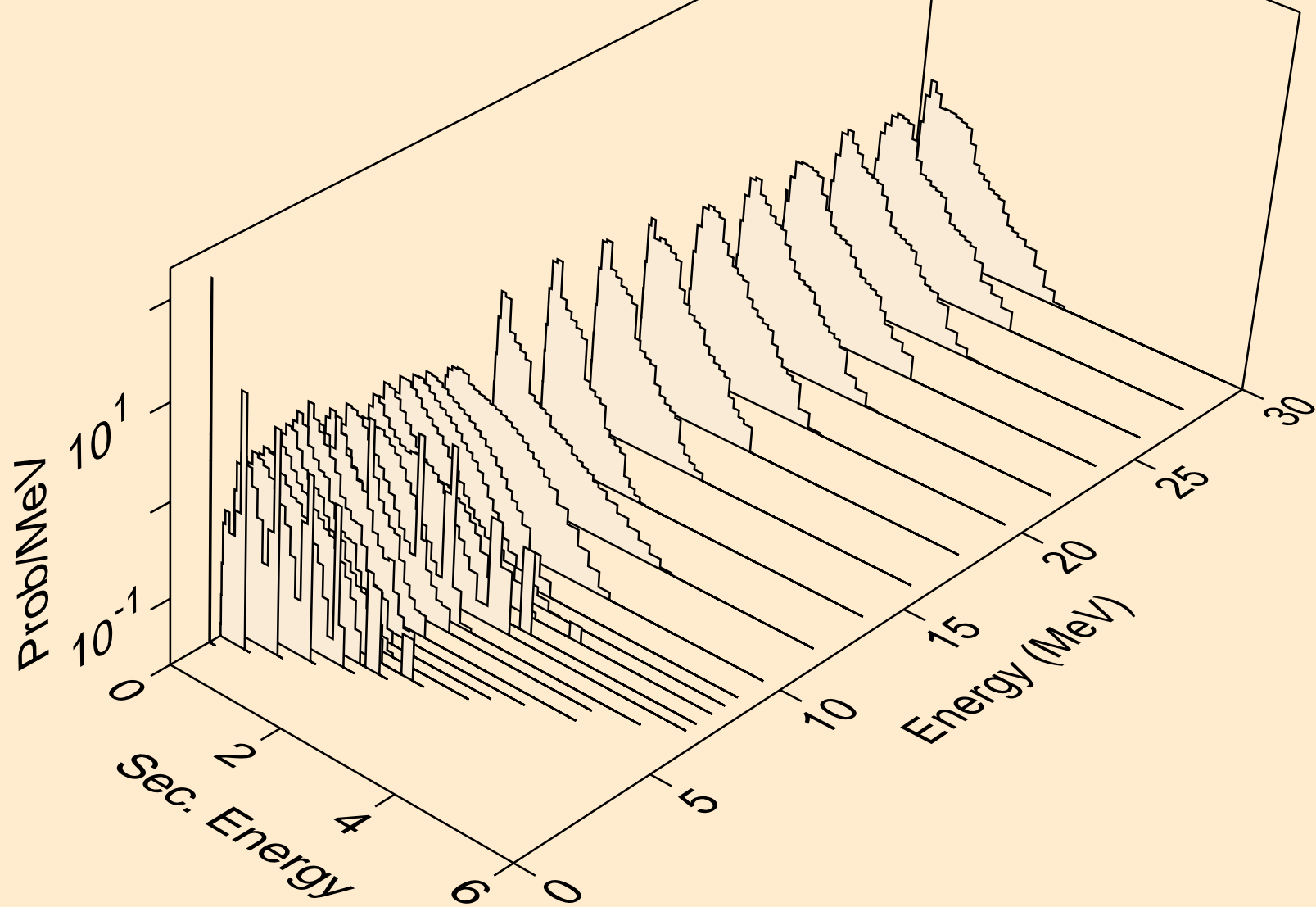
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Neutron emission for (n,3n)a



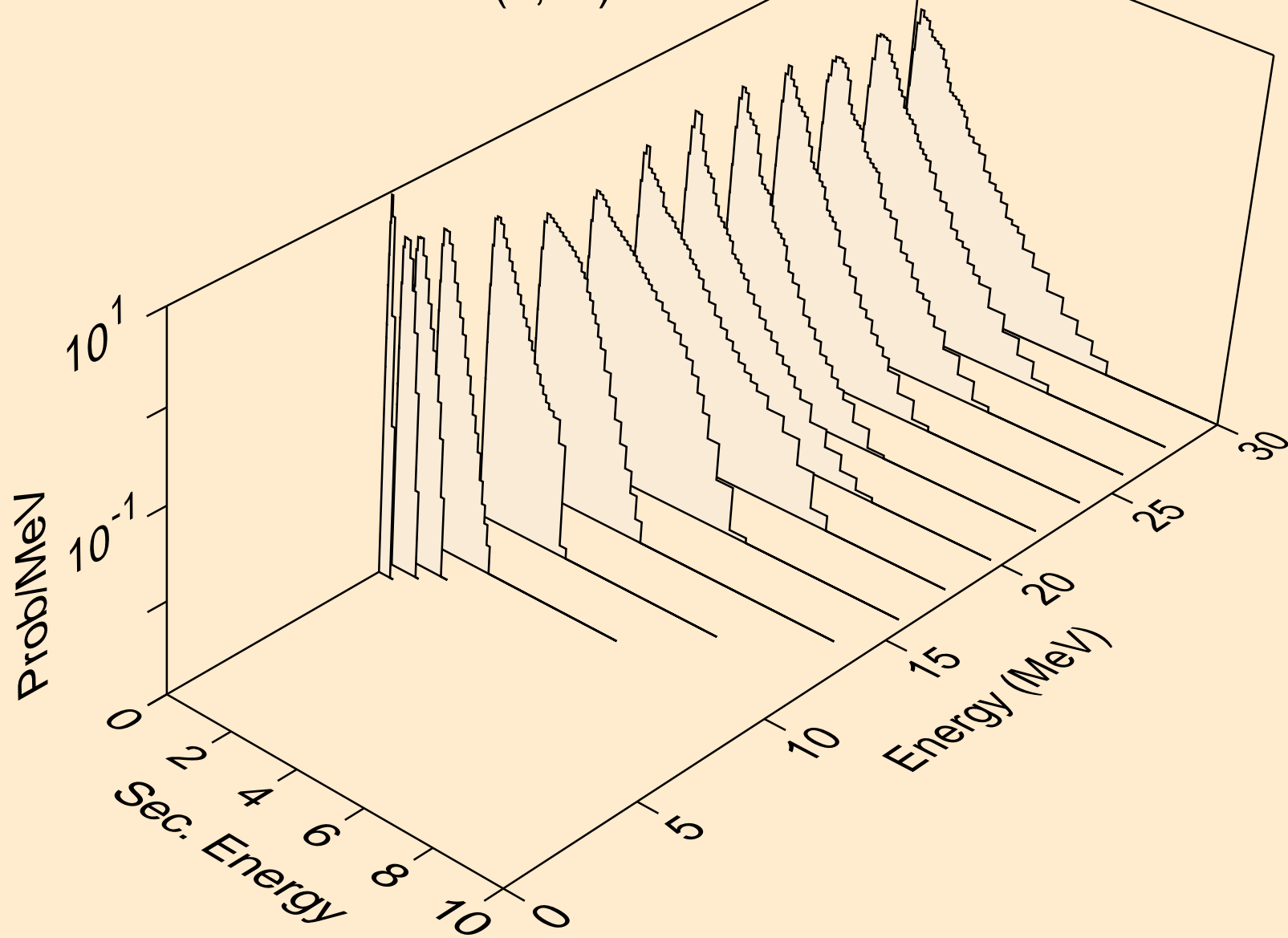
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a

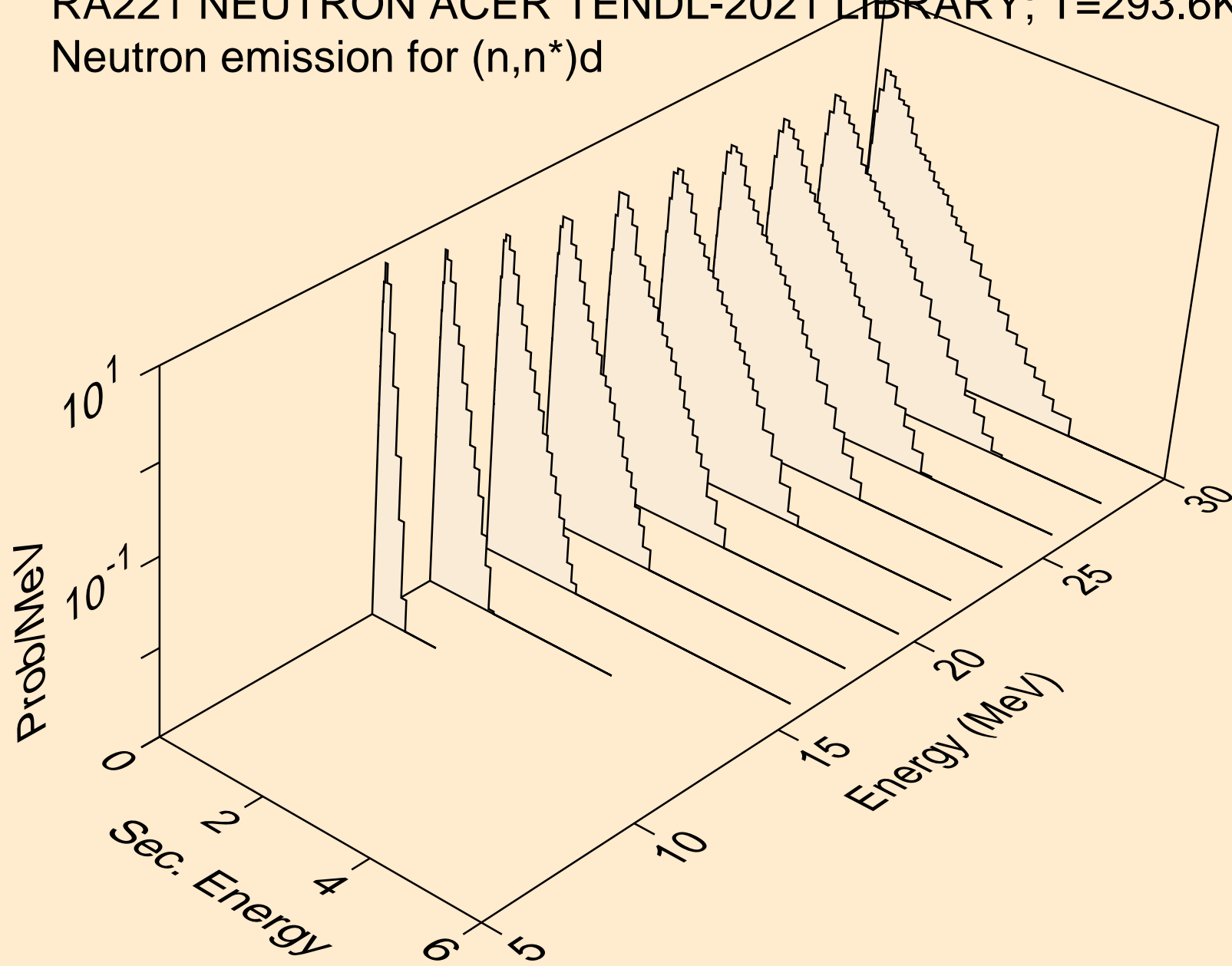


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)2a

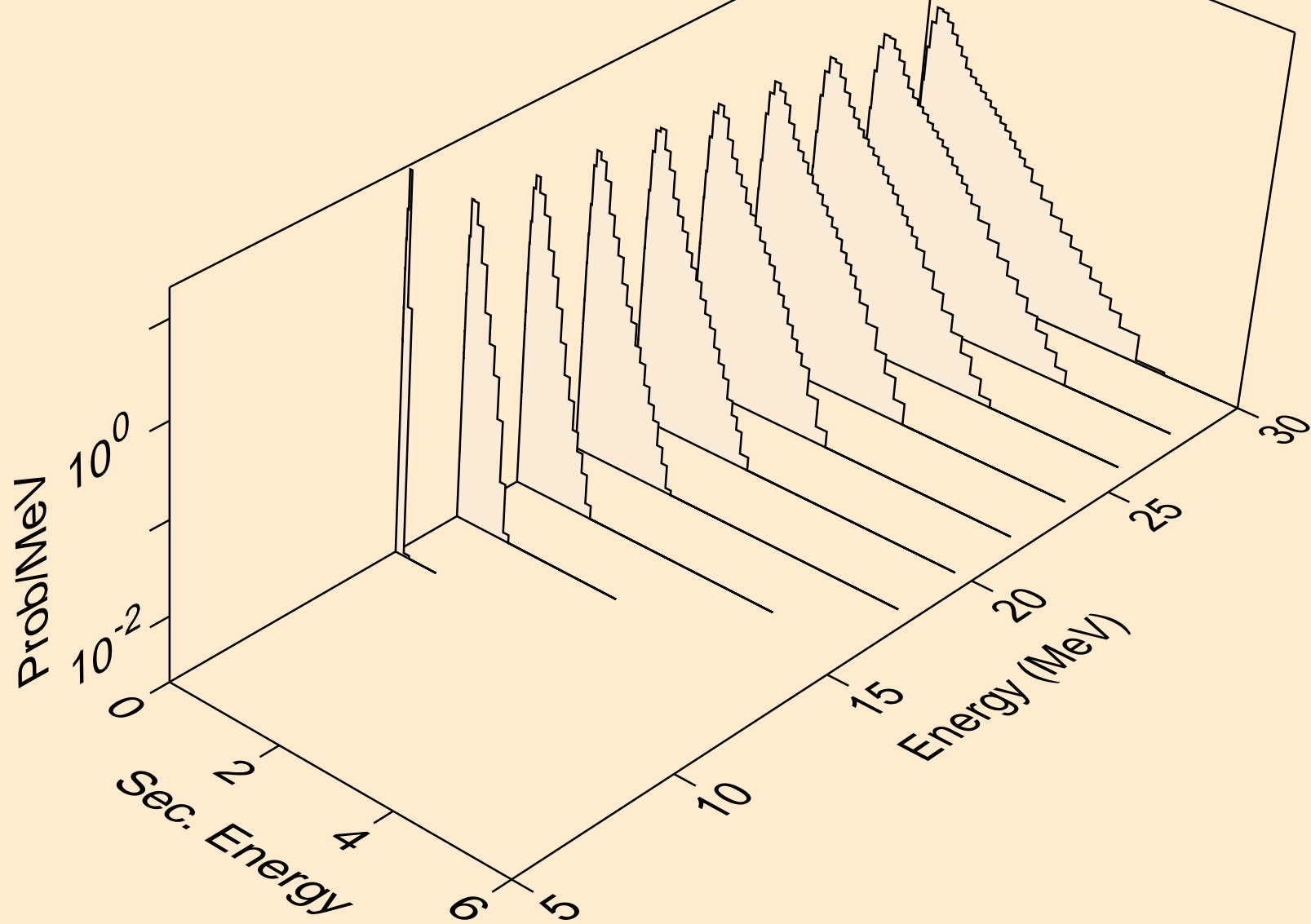




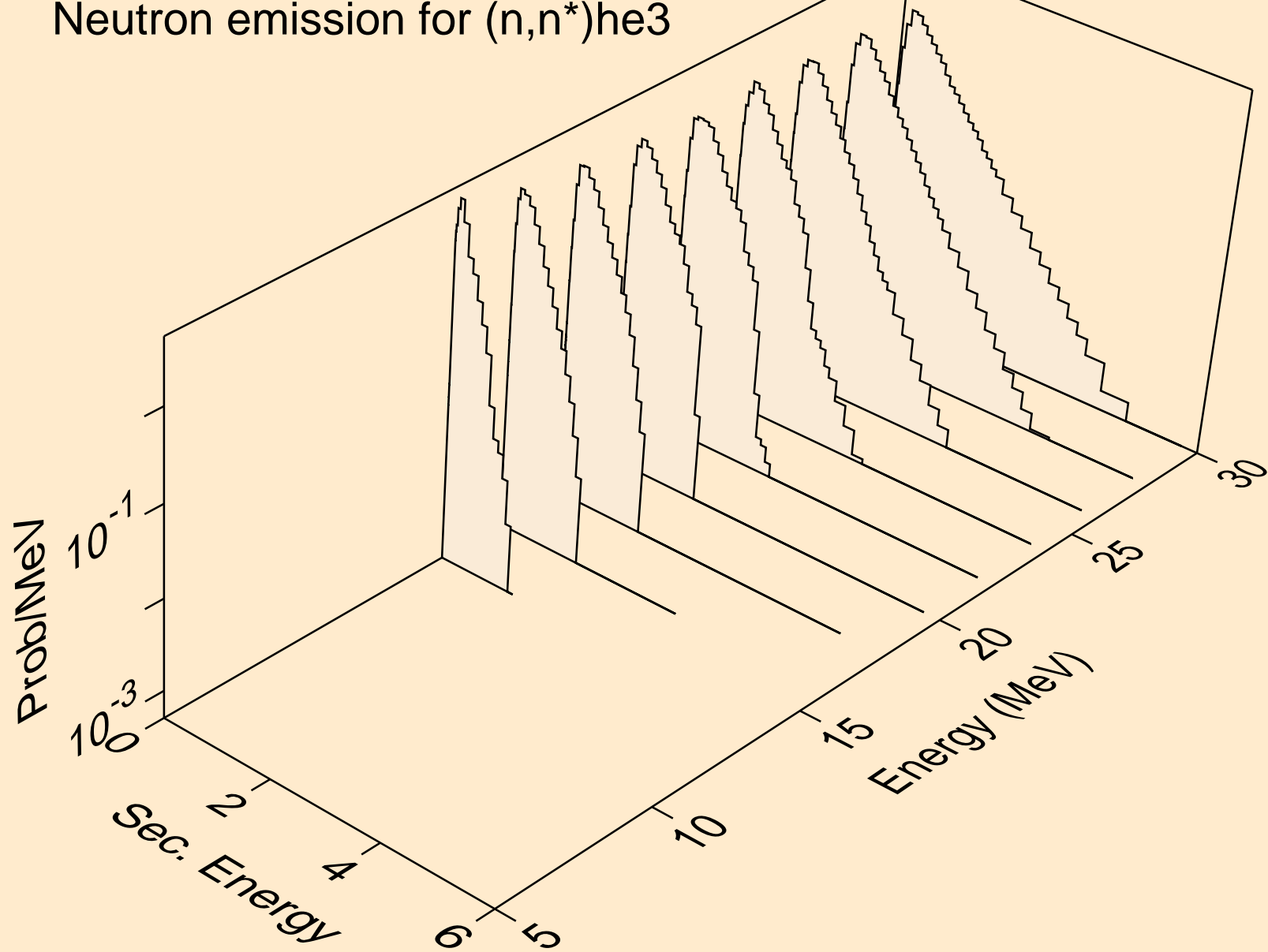
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Neutron emission for (n,n\*)d



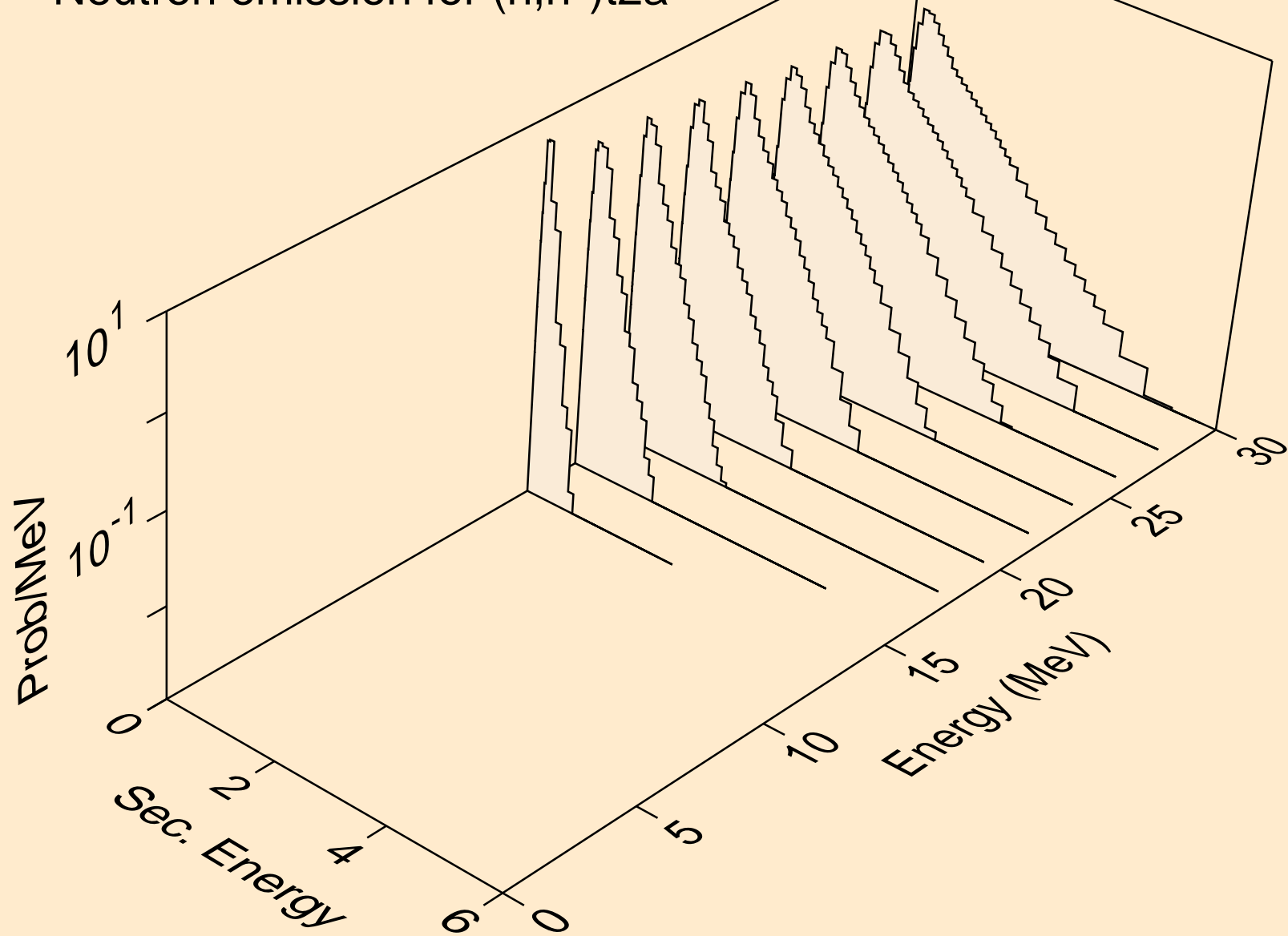
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Neutron emission for (n,n\*)t



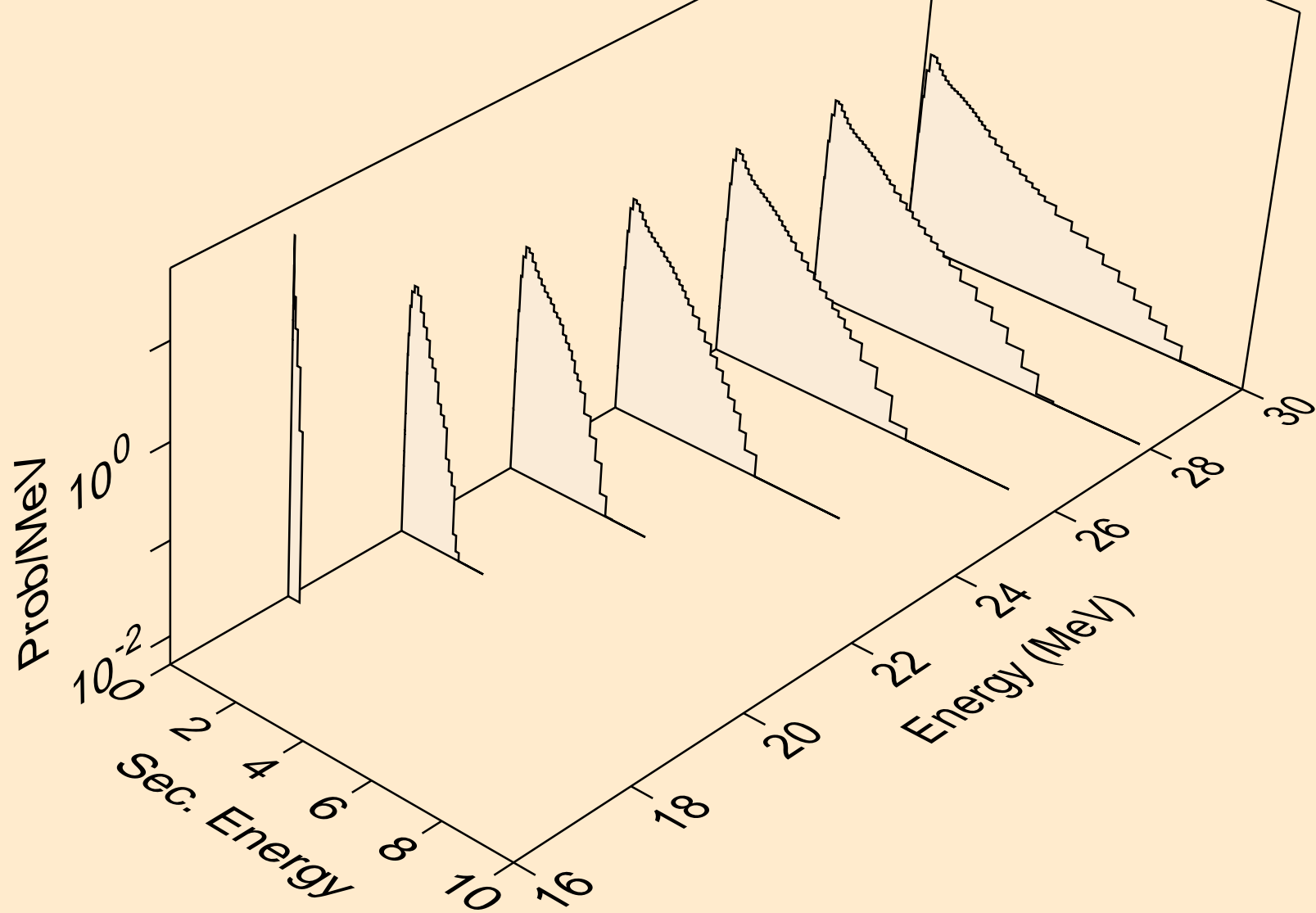
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Neutron emission for (n,n\*)he3



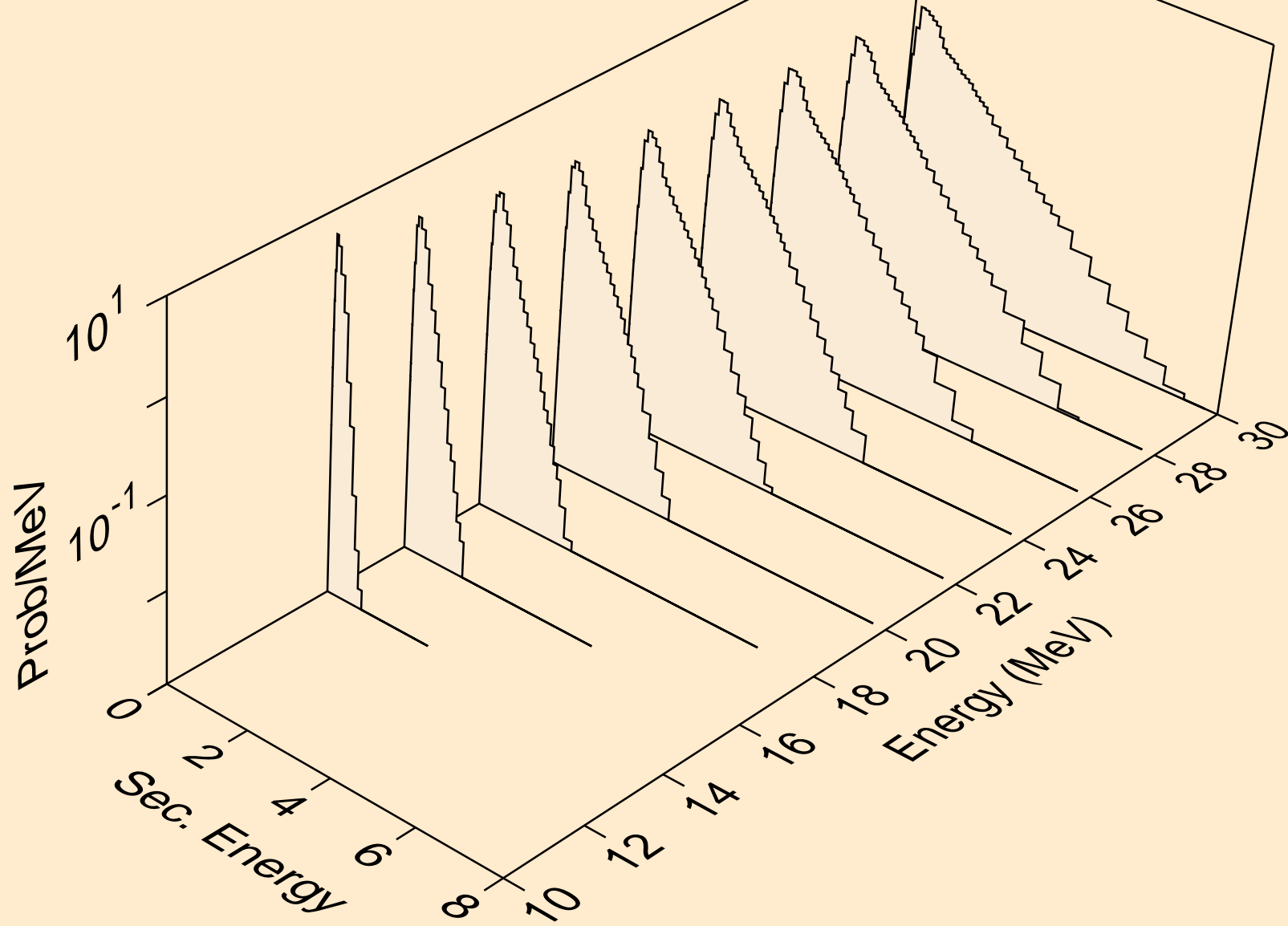
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t2a



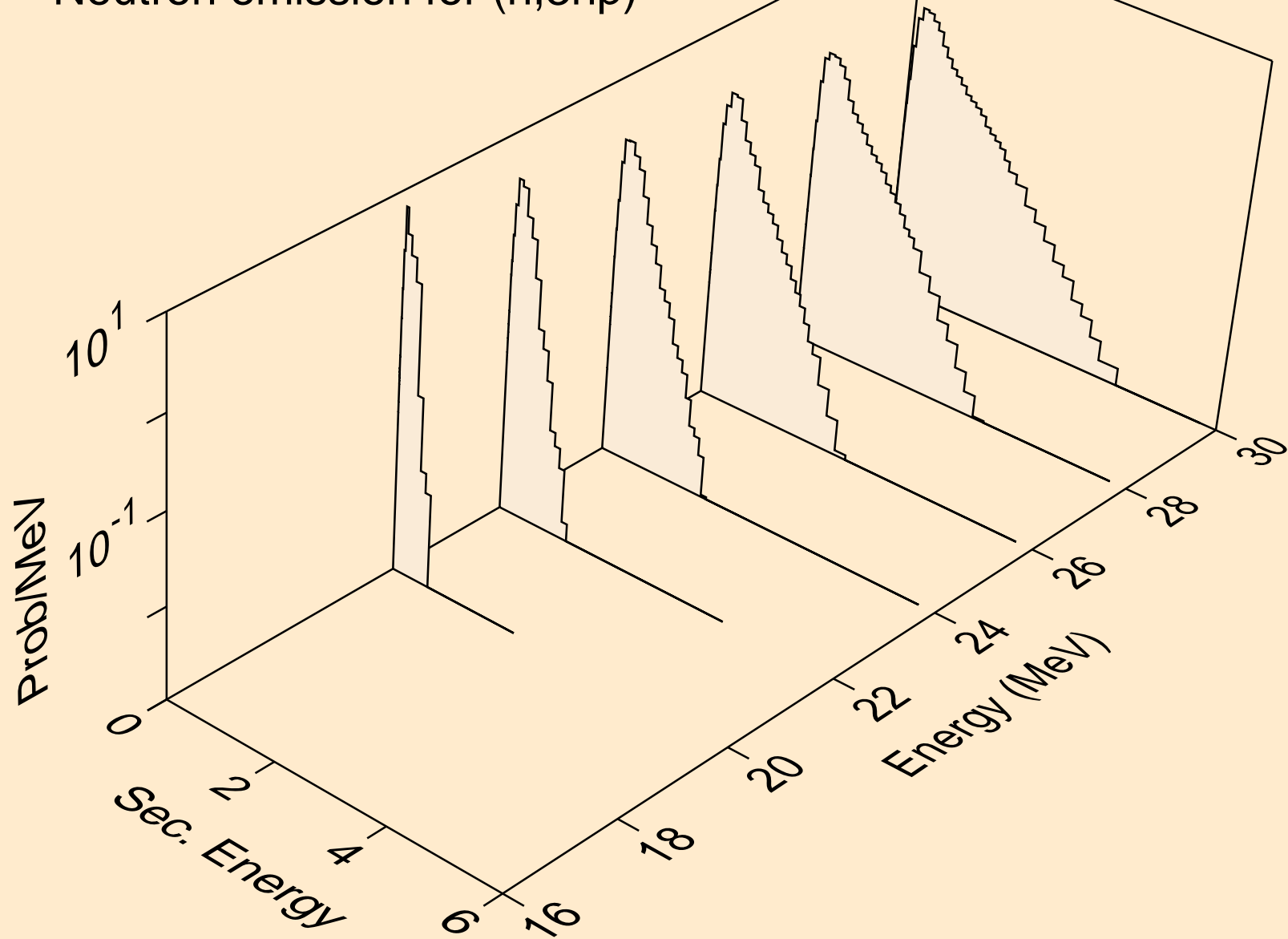
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



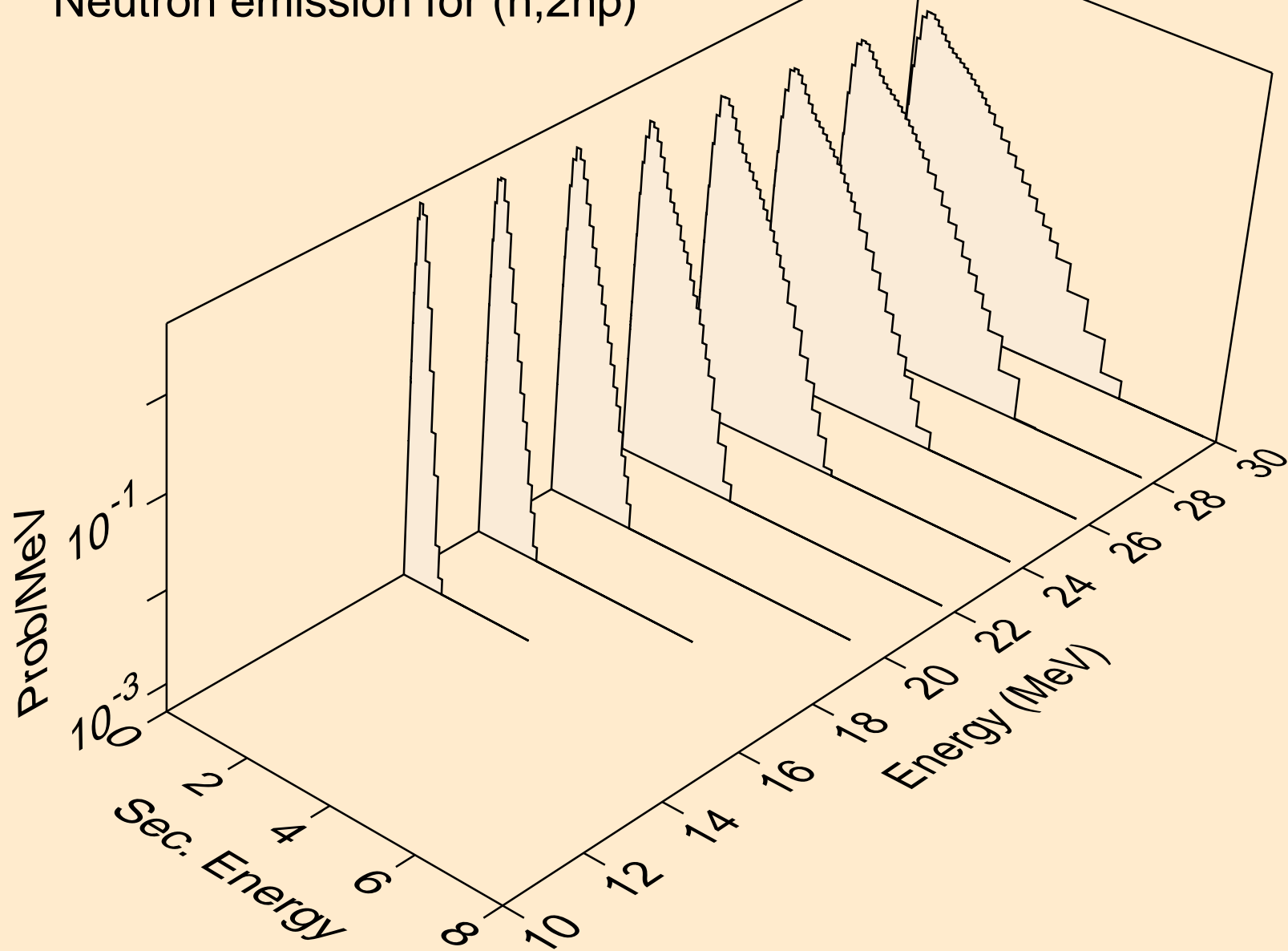
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)

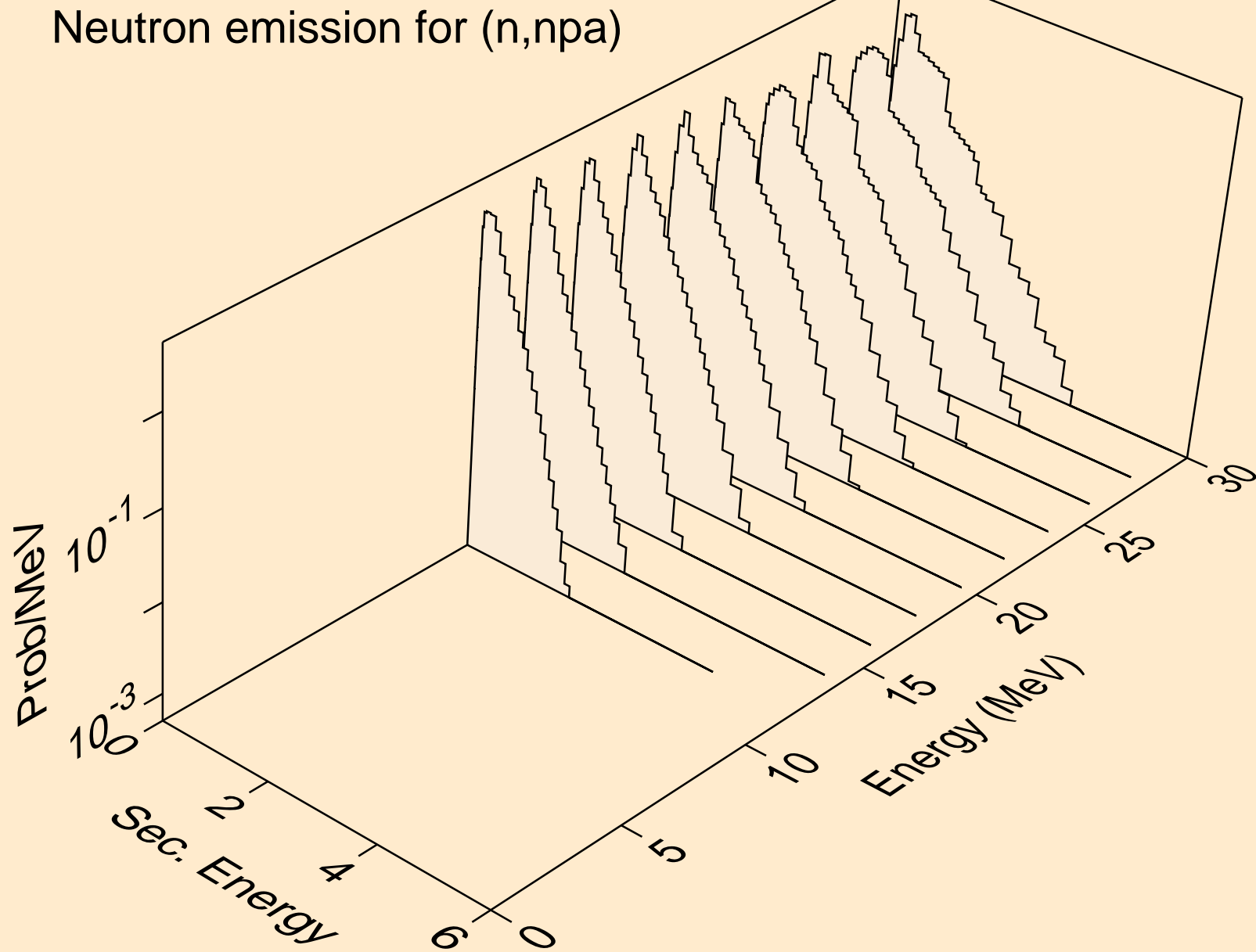


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Neutron emission for (n,2np)

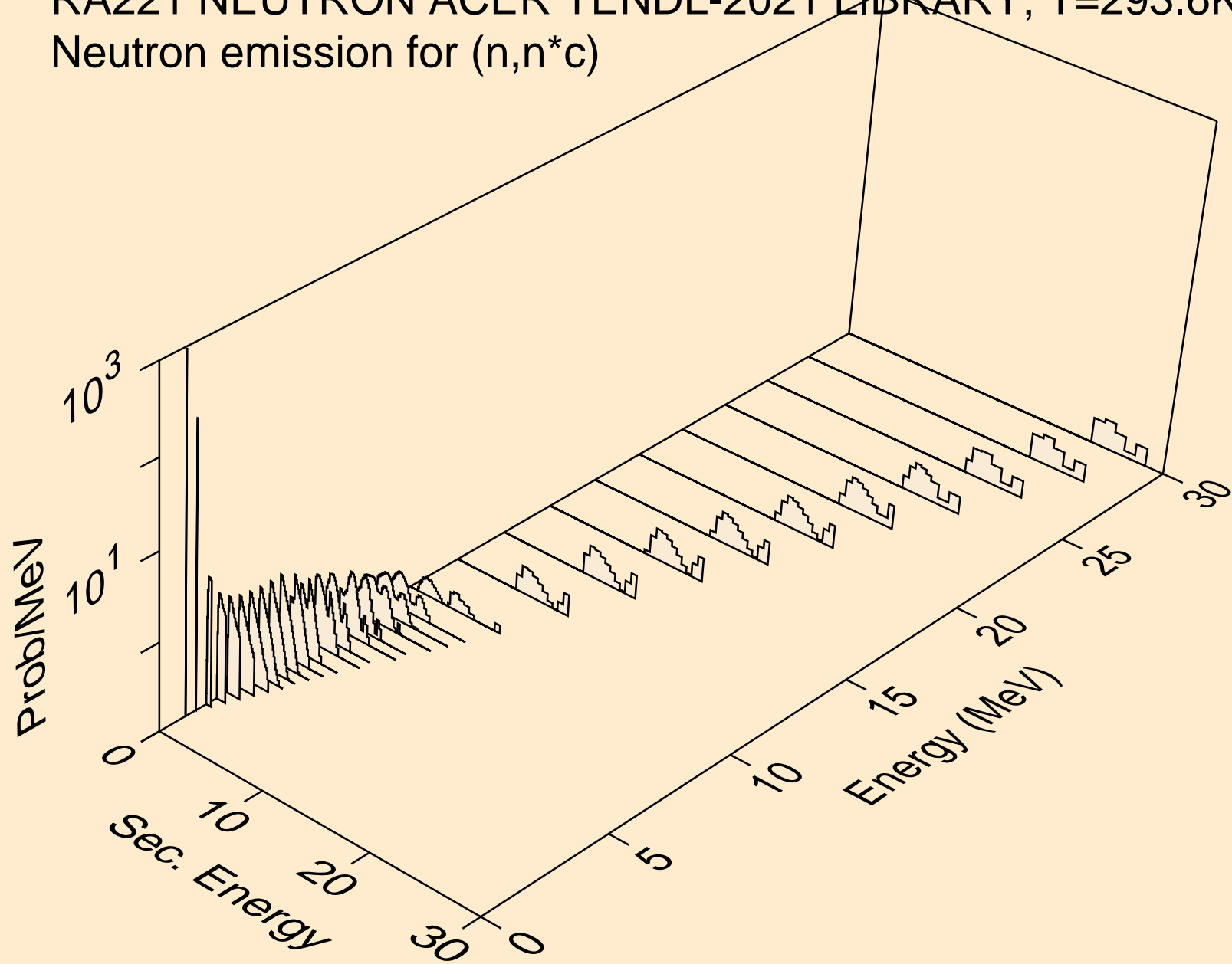




RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)

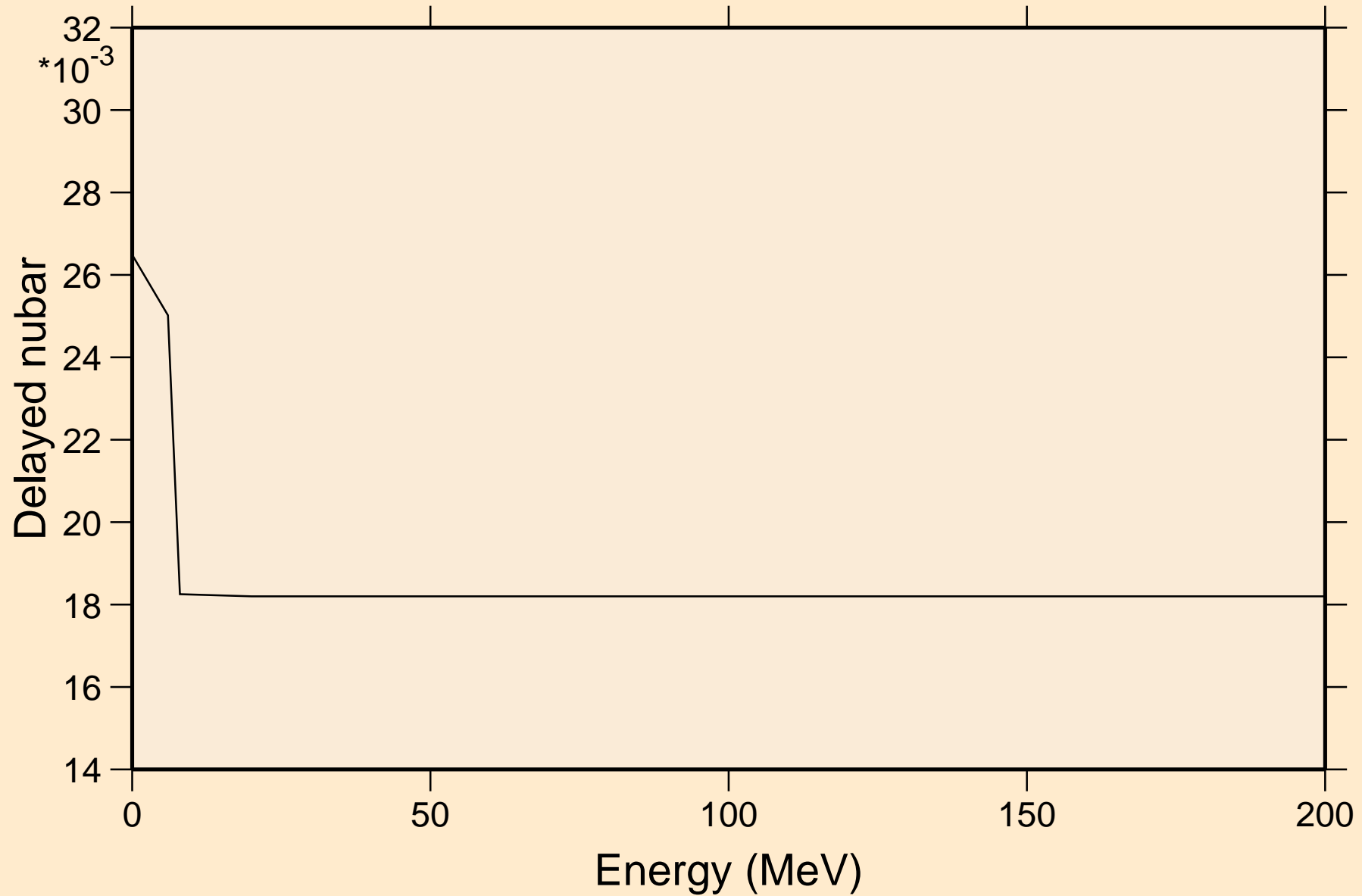


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



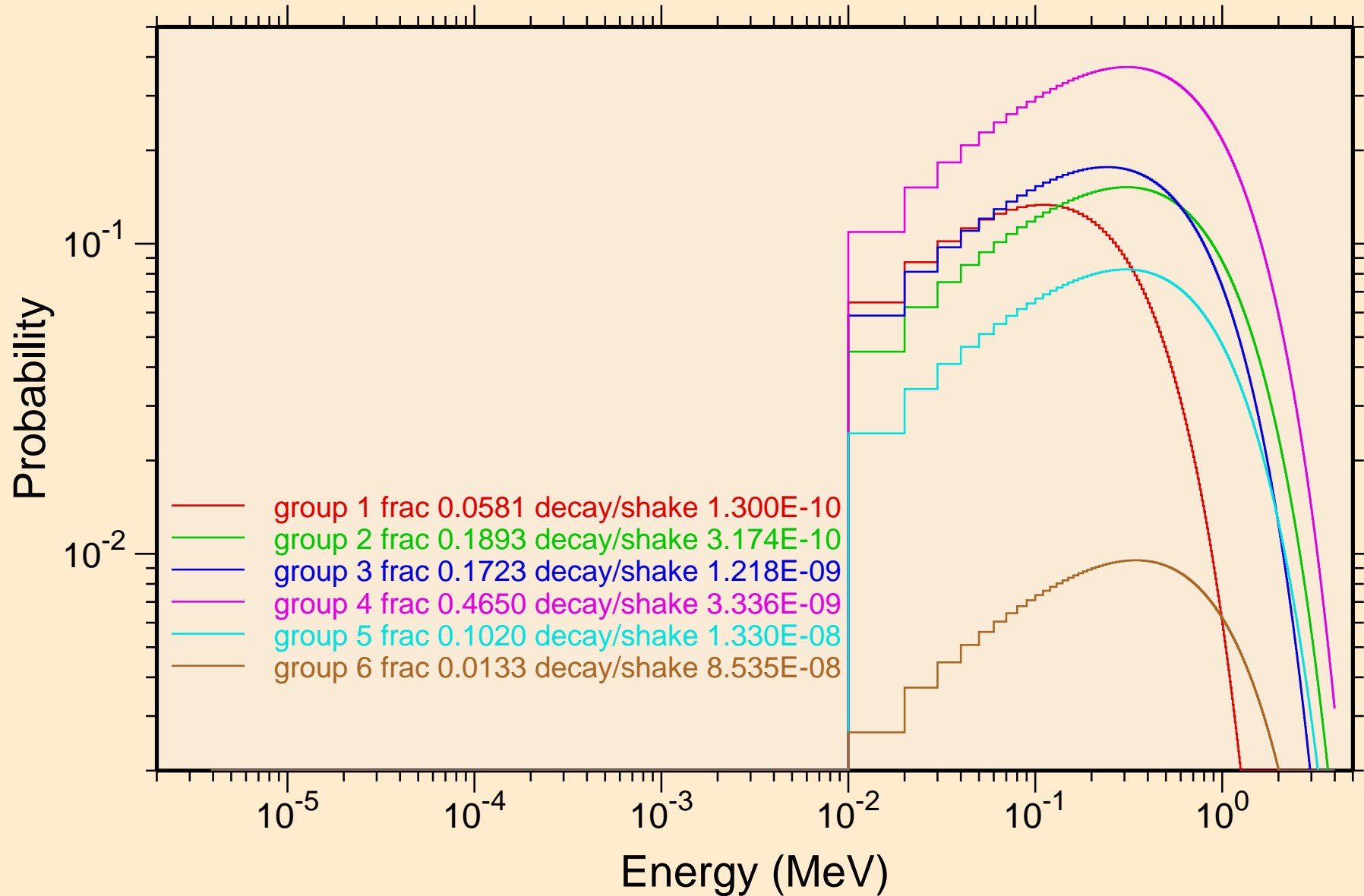
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

Delayed nubar

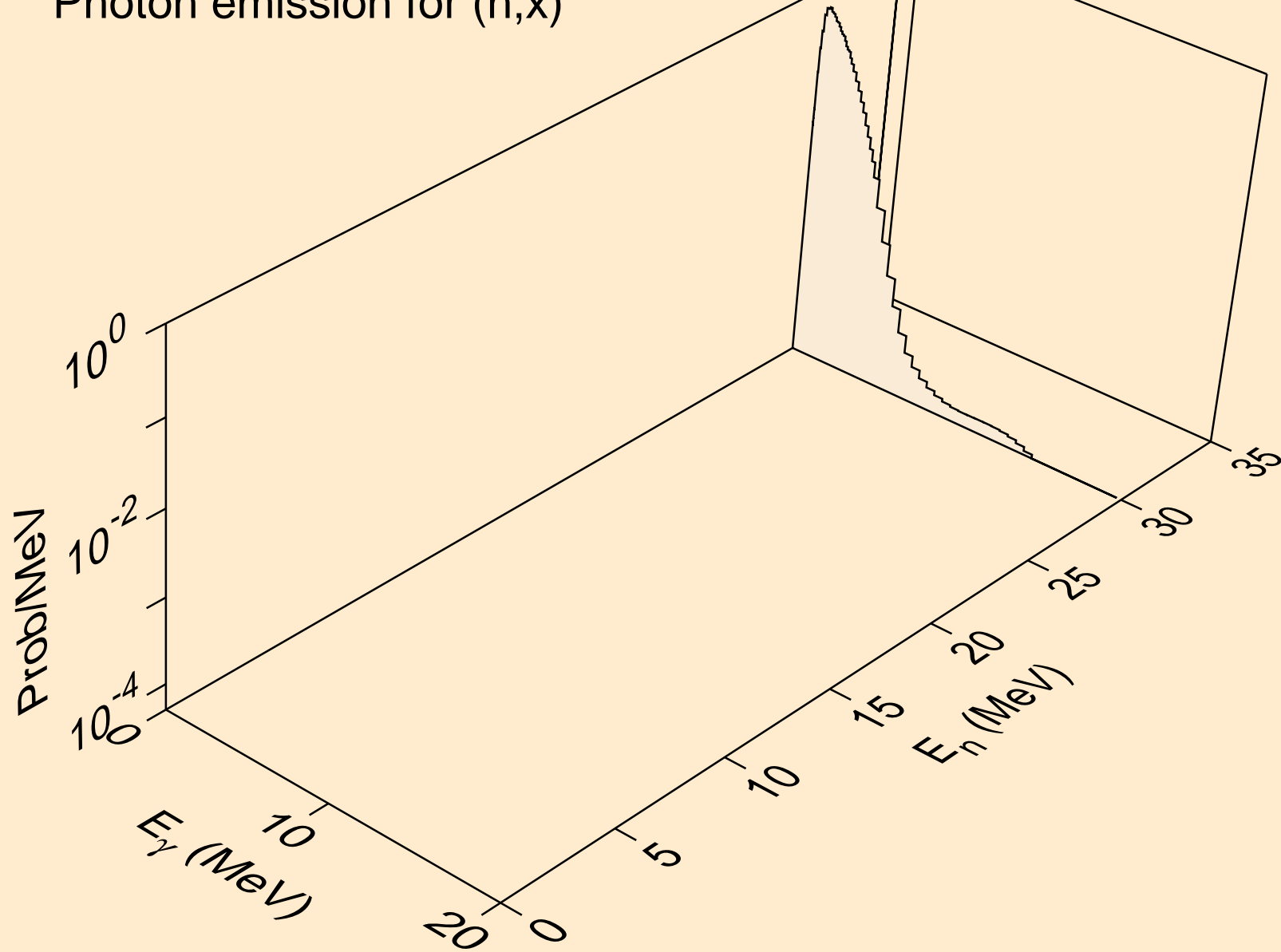


# RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

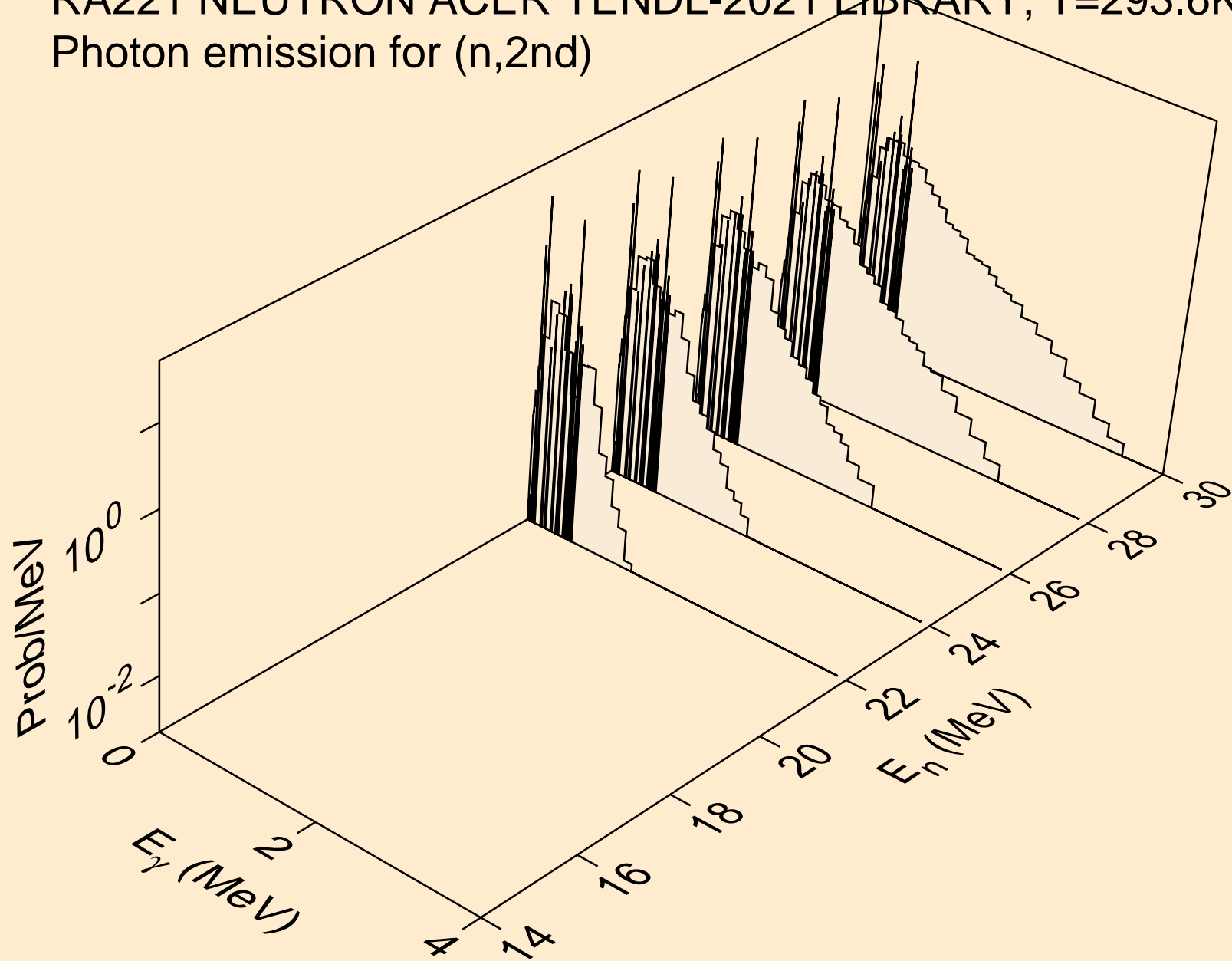
## Delayed neutron spectra



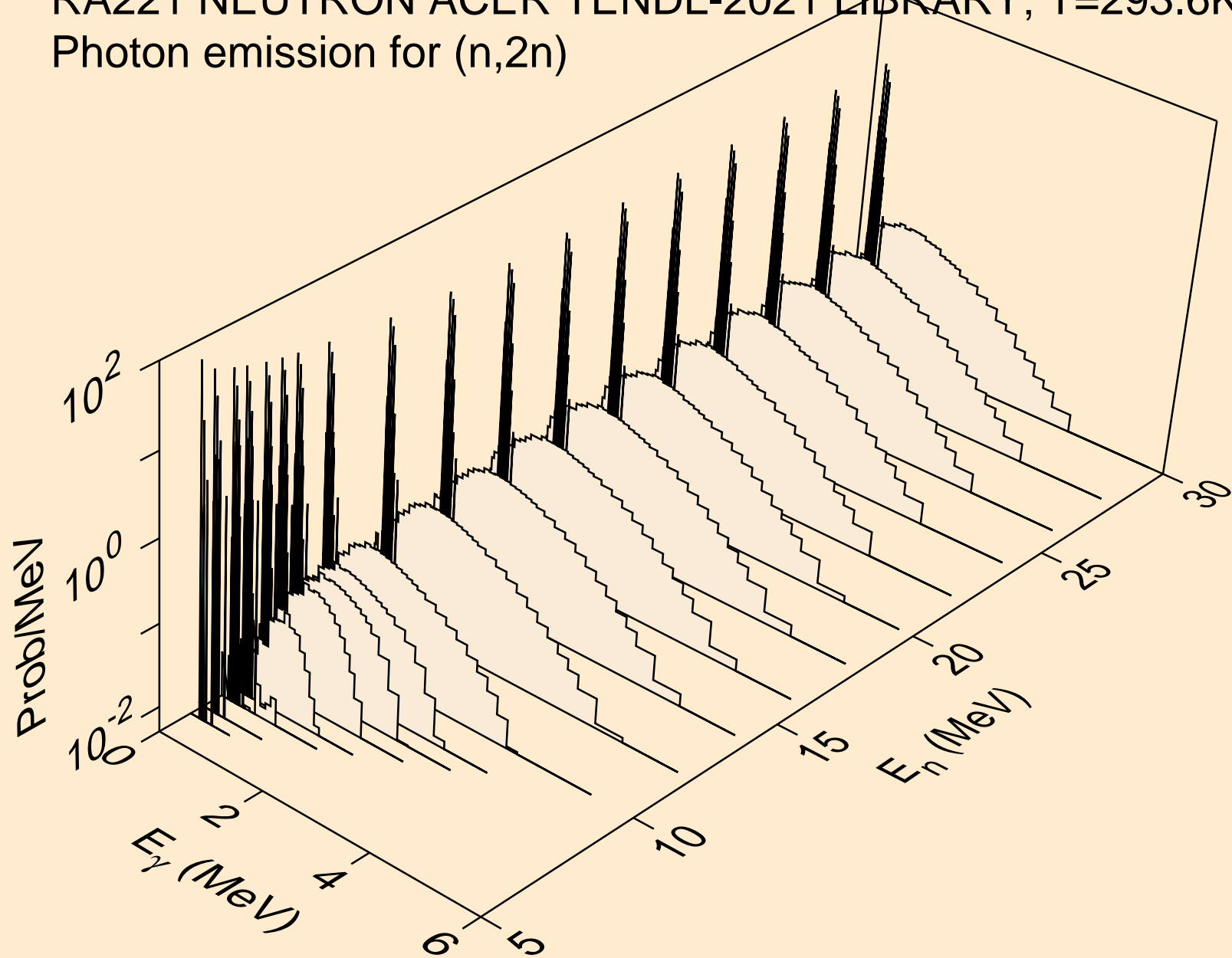
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



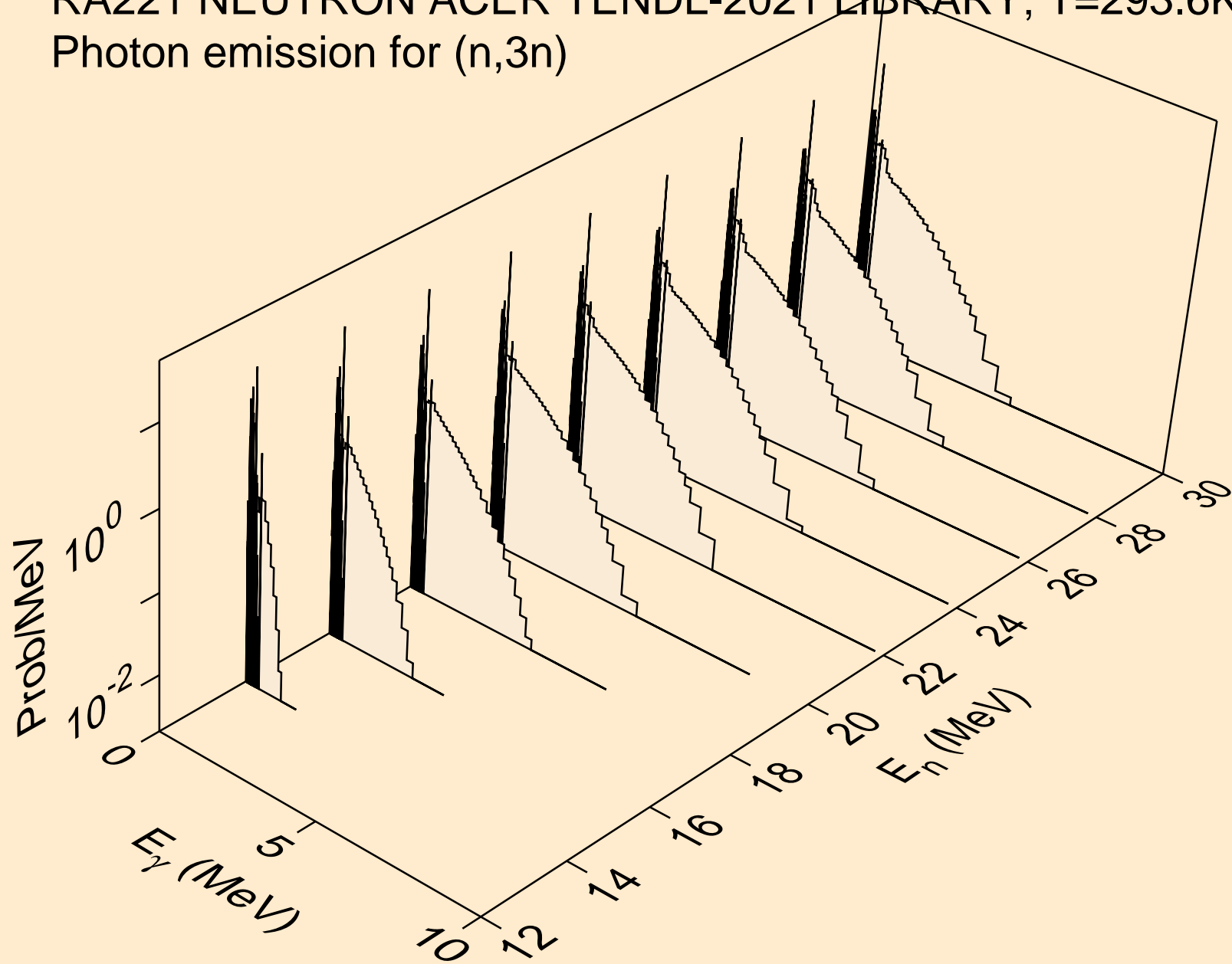
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)

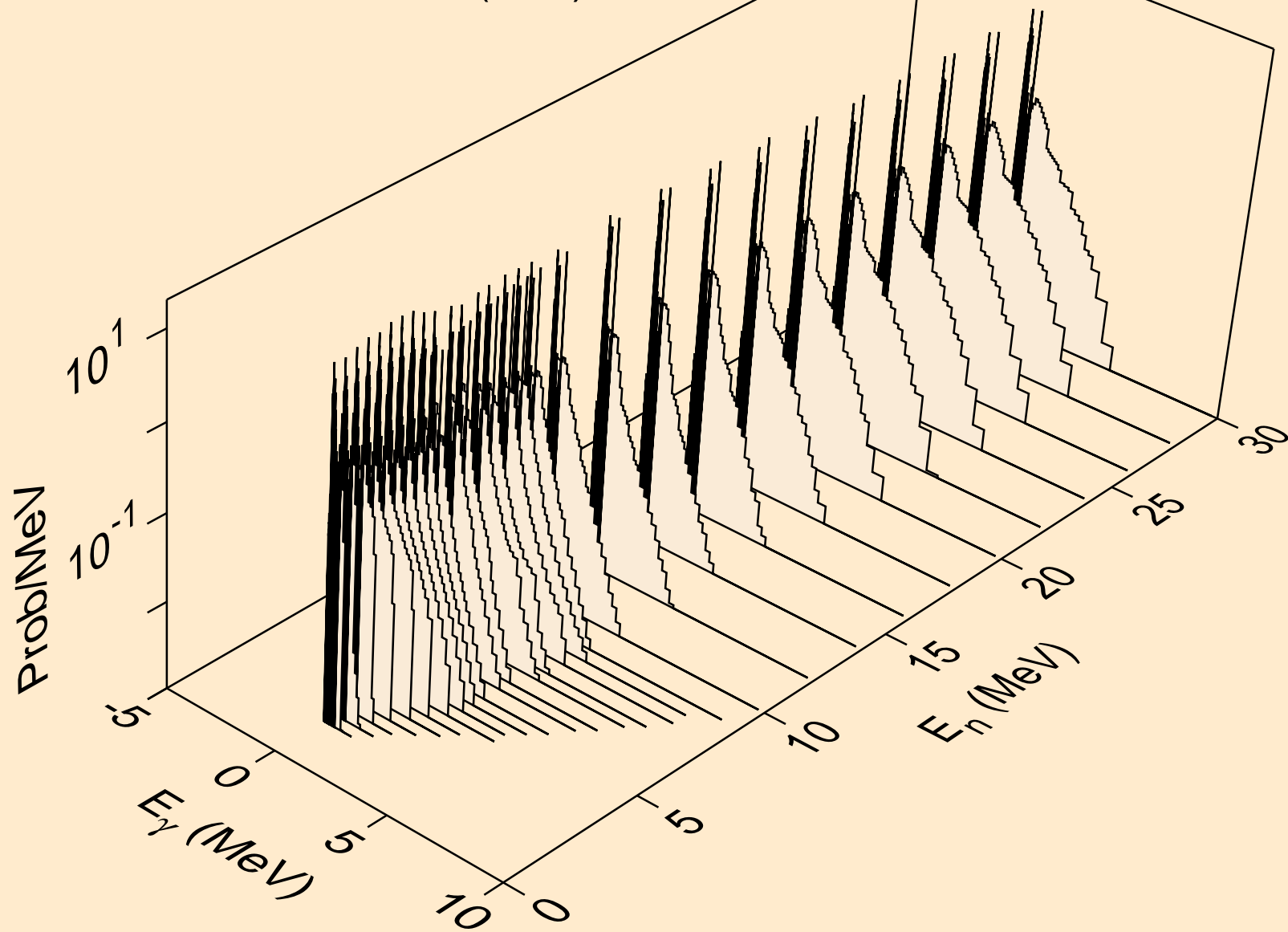


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)

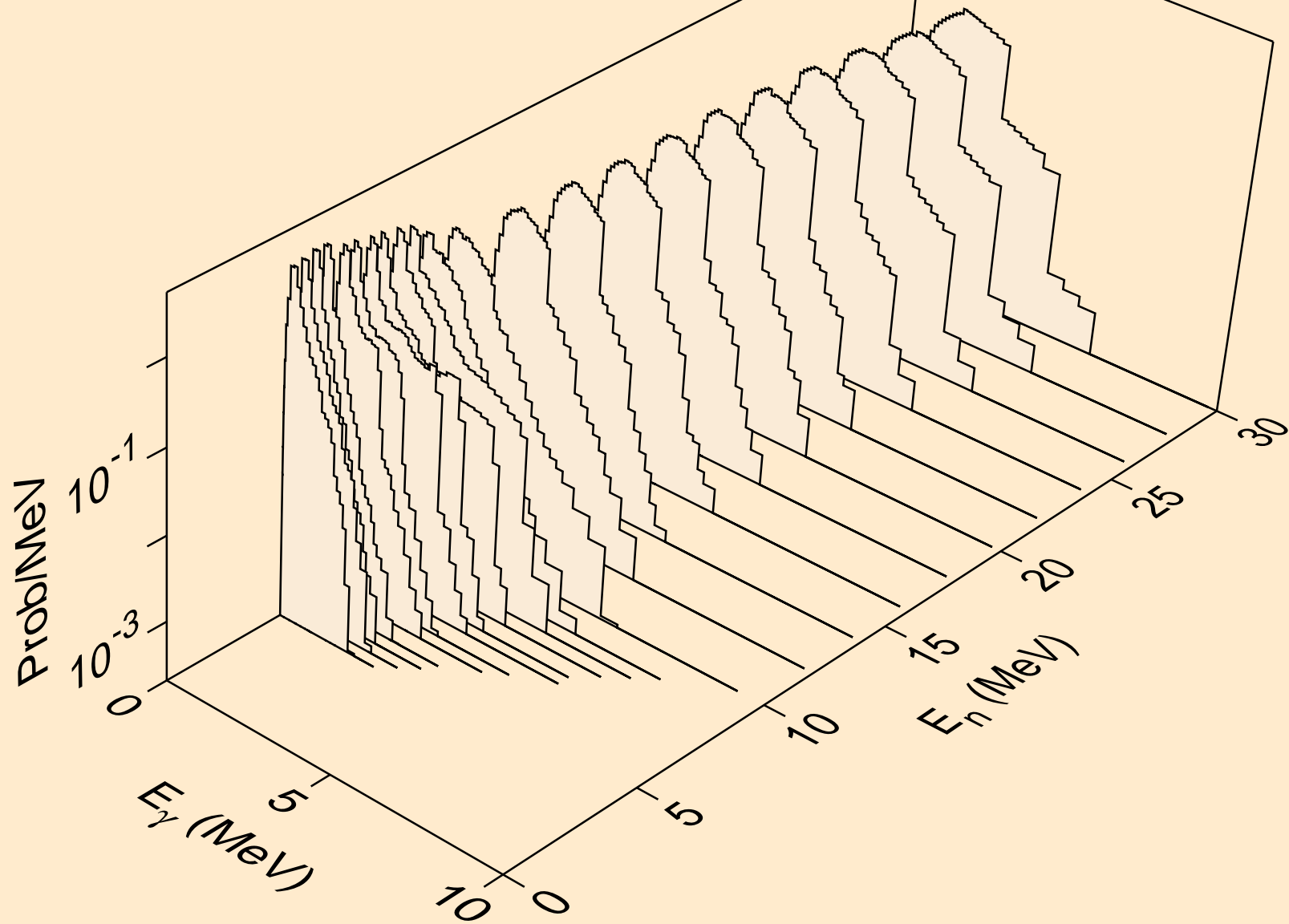




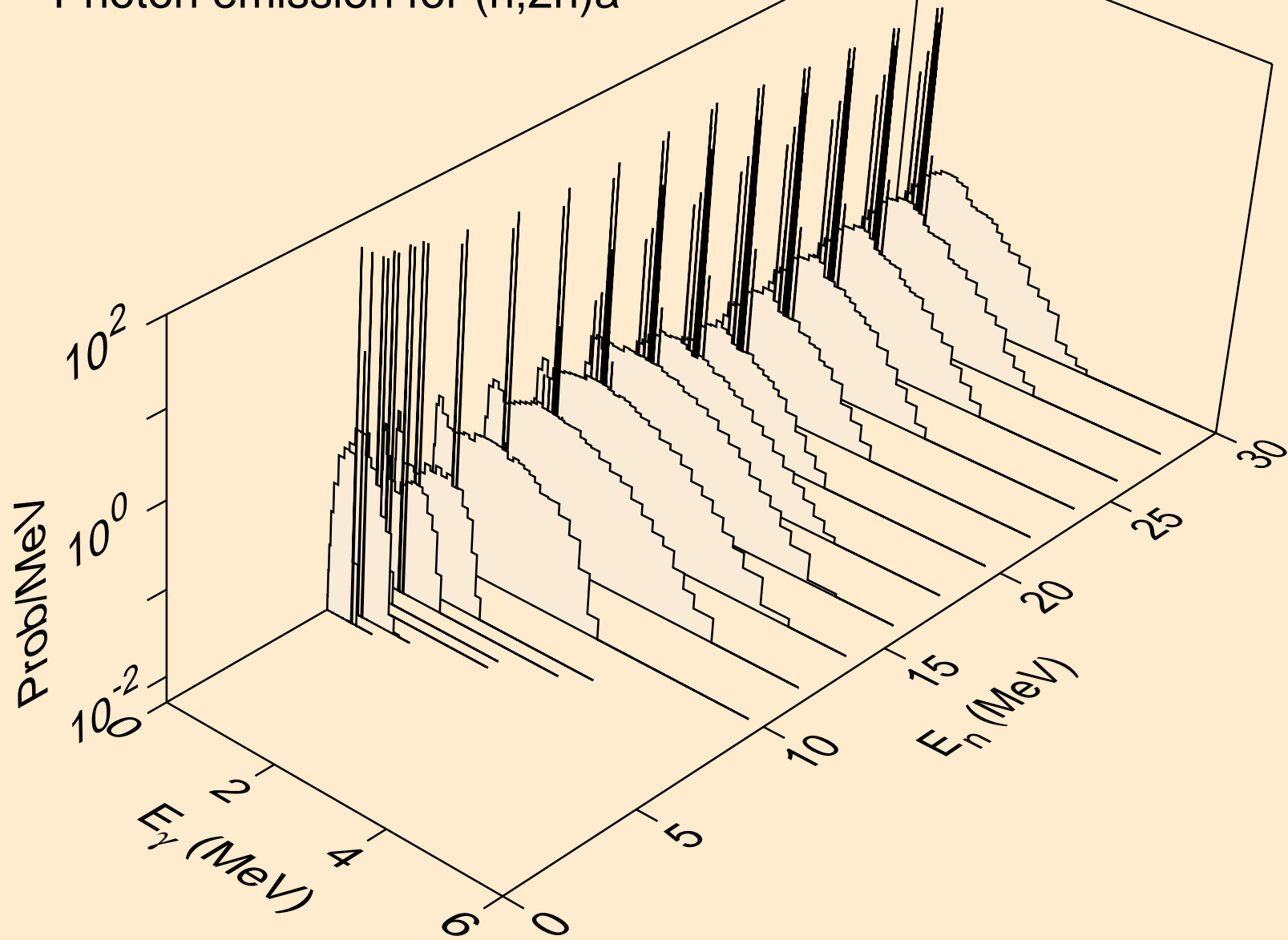
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



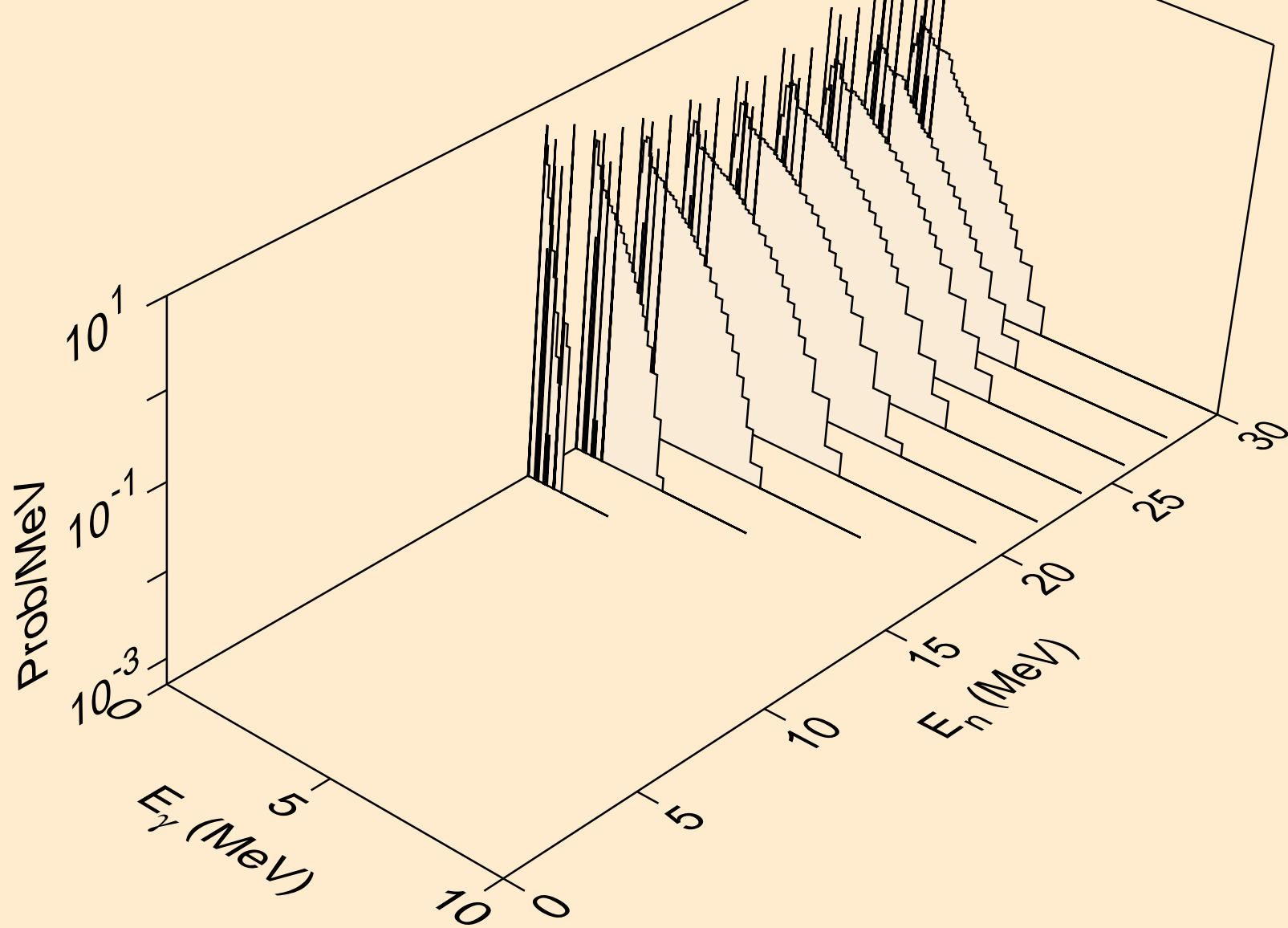
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)3a



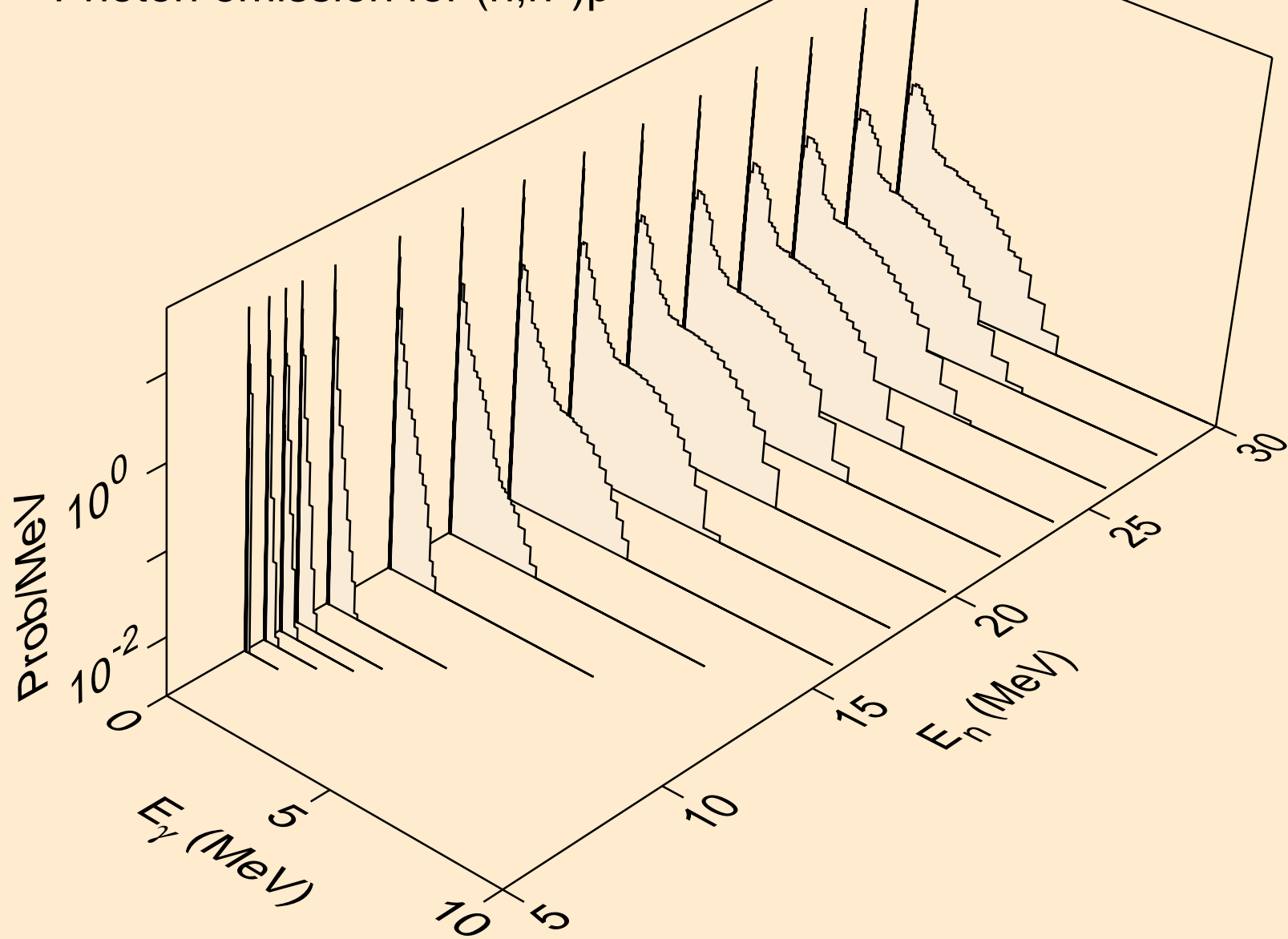
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



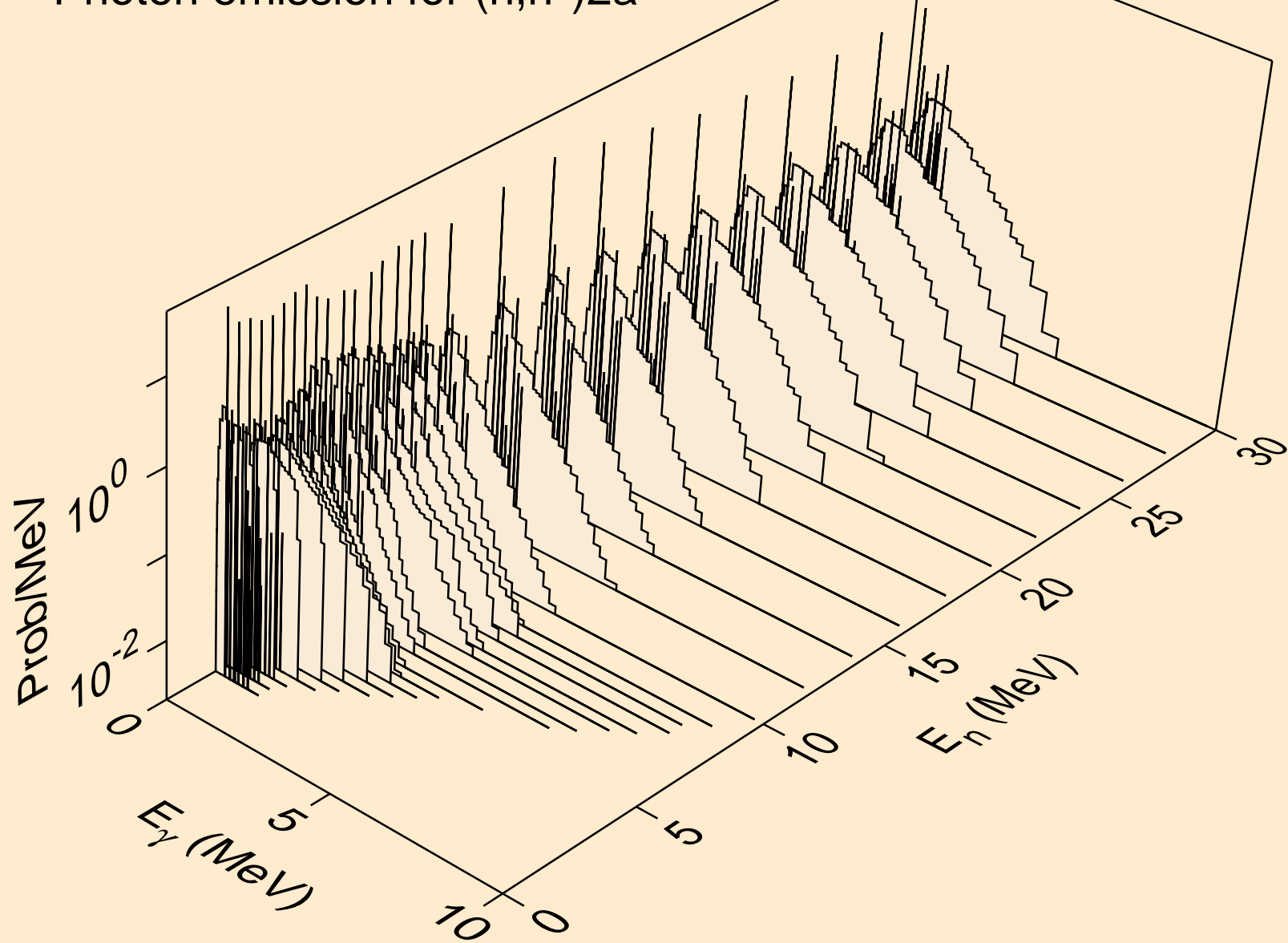
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



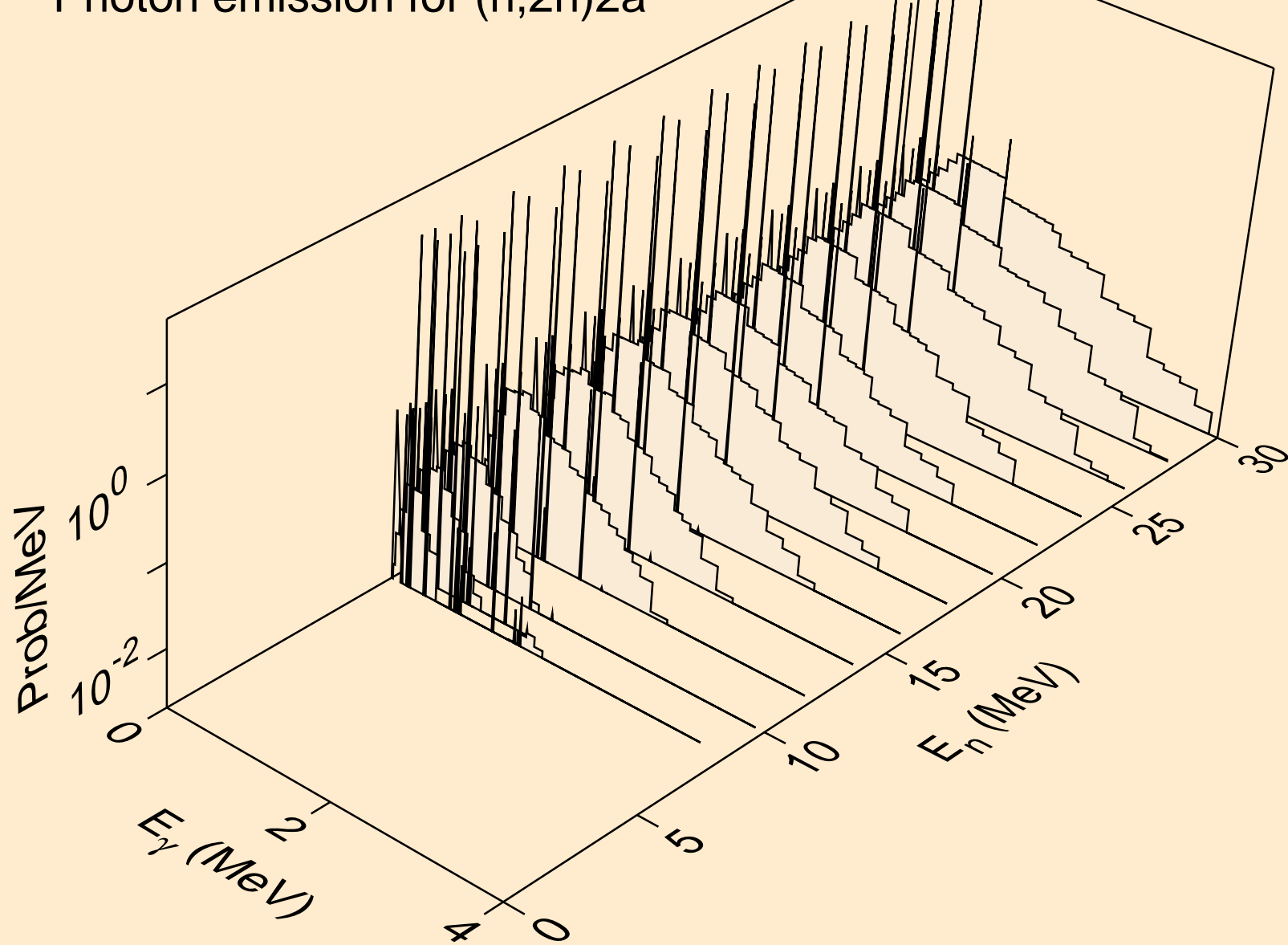
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



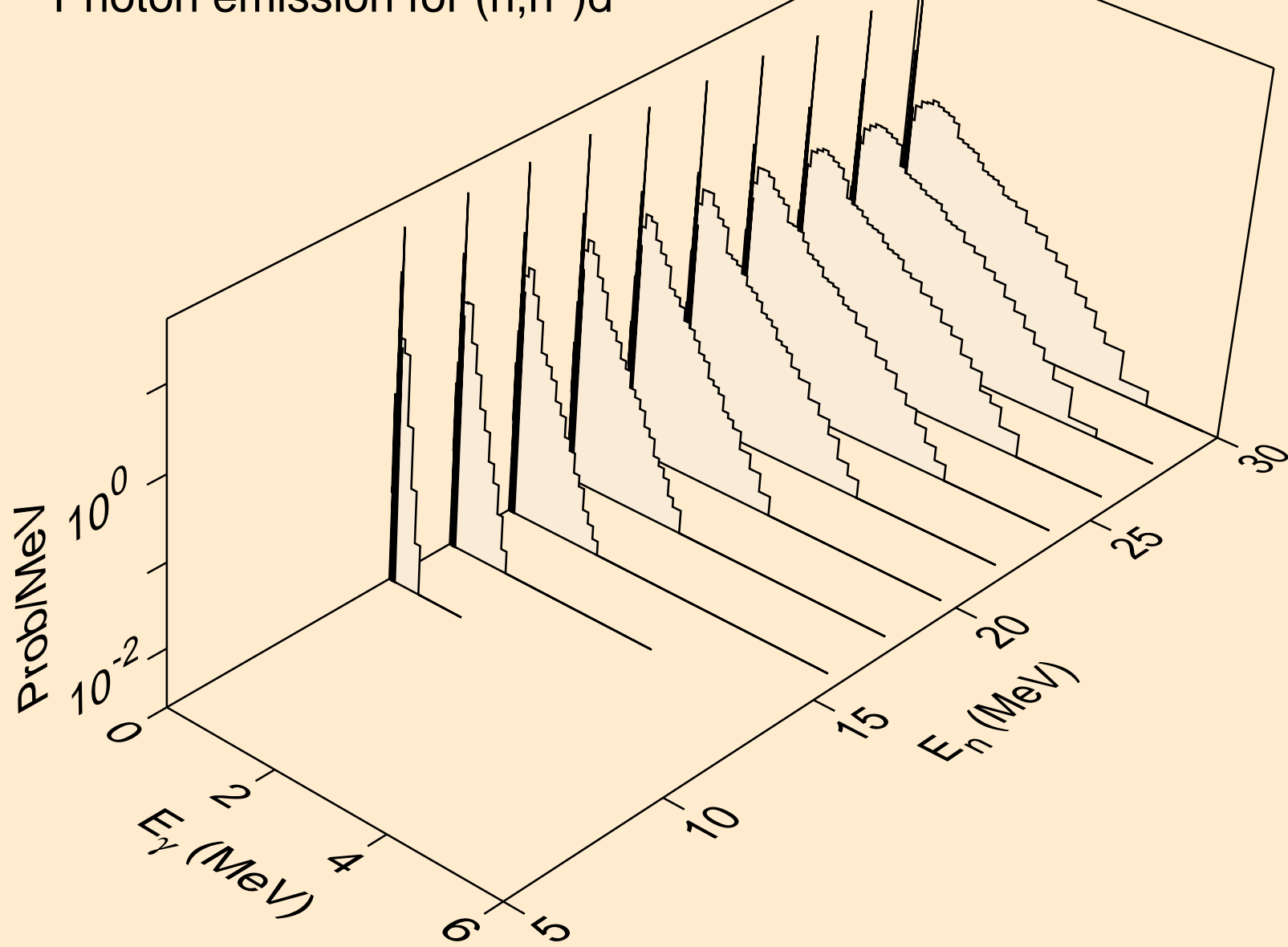
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)2a



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)2a

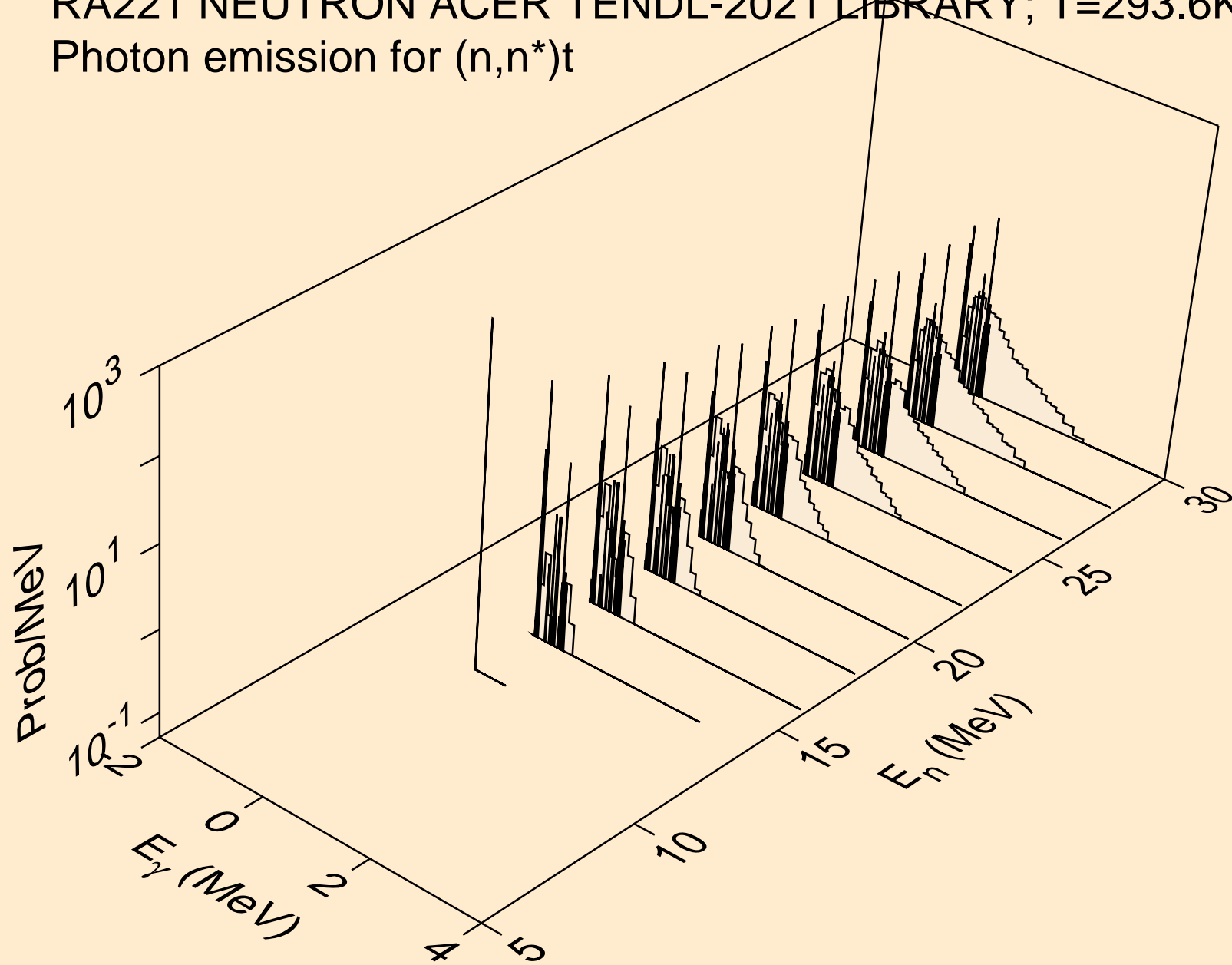


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

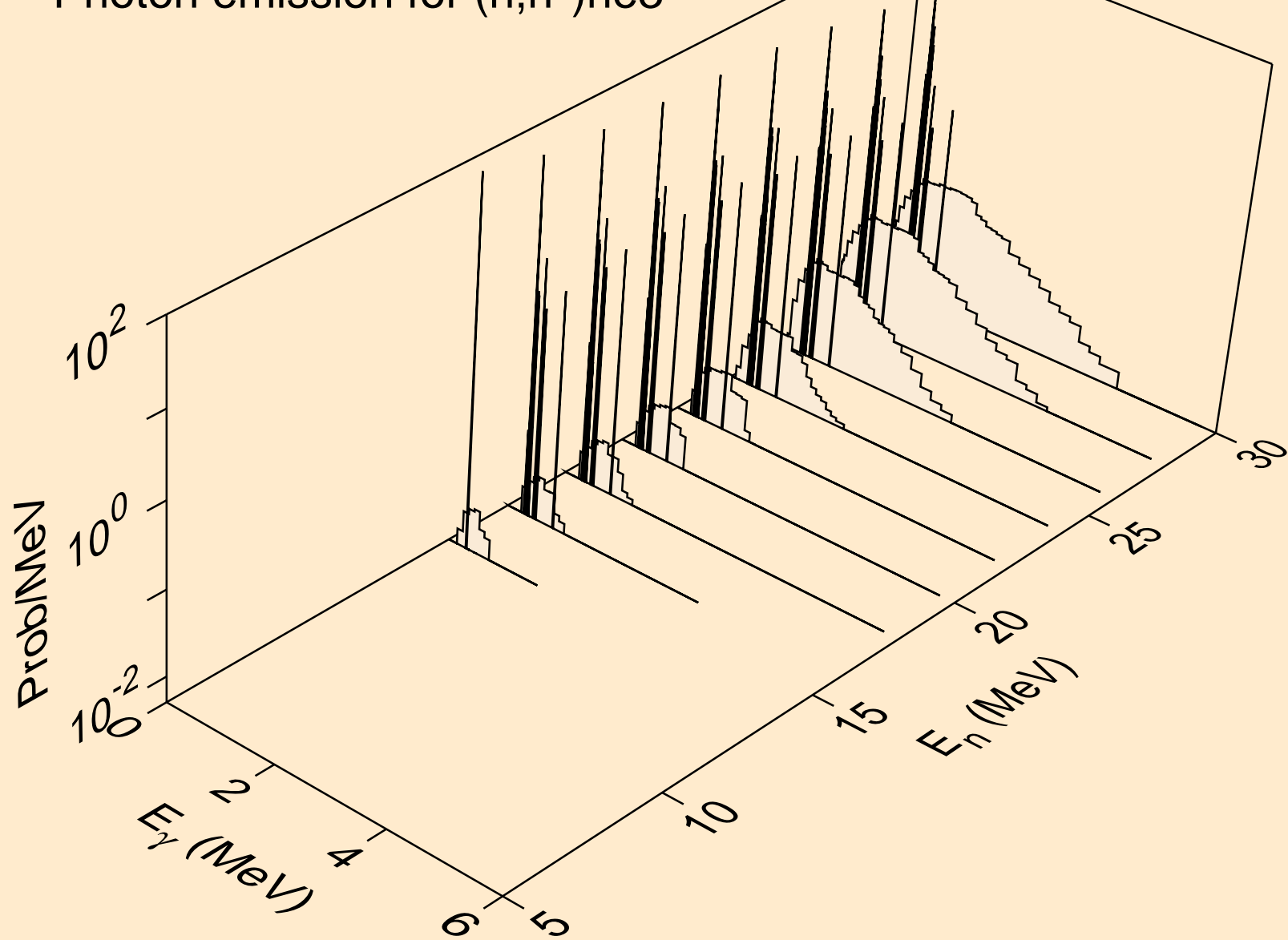




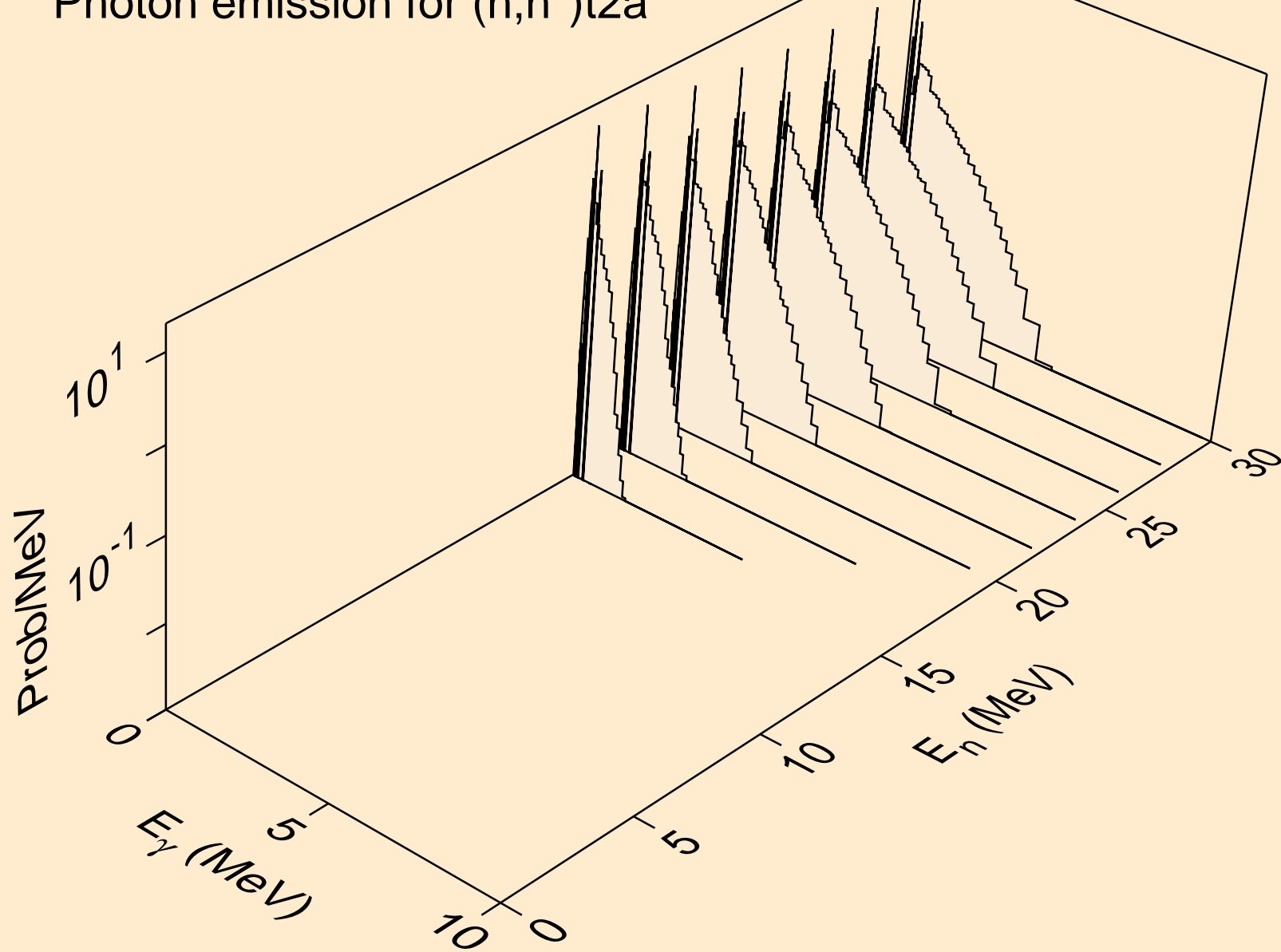
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



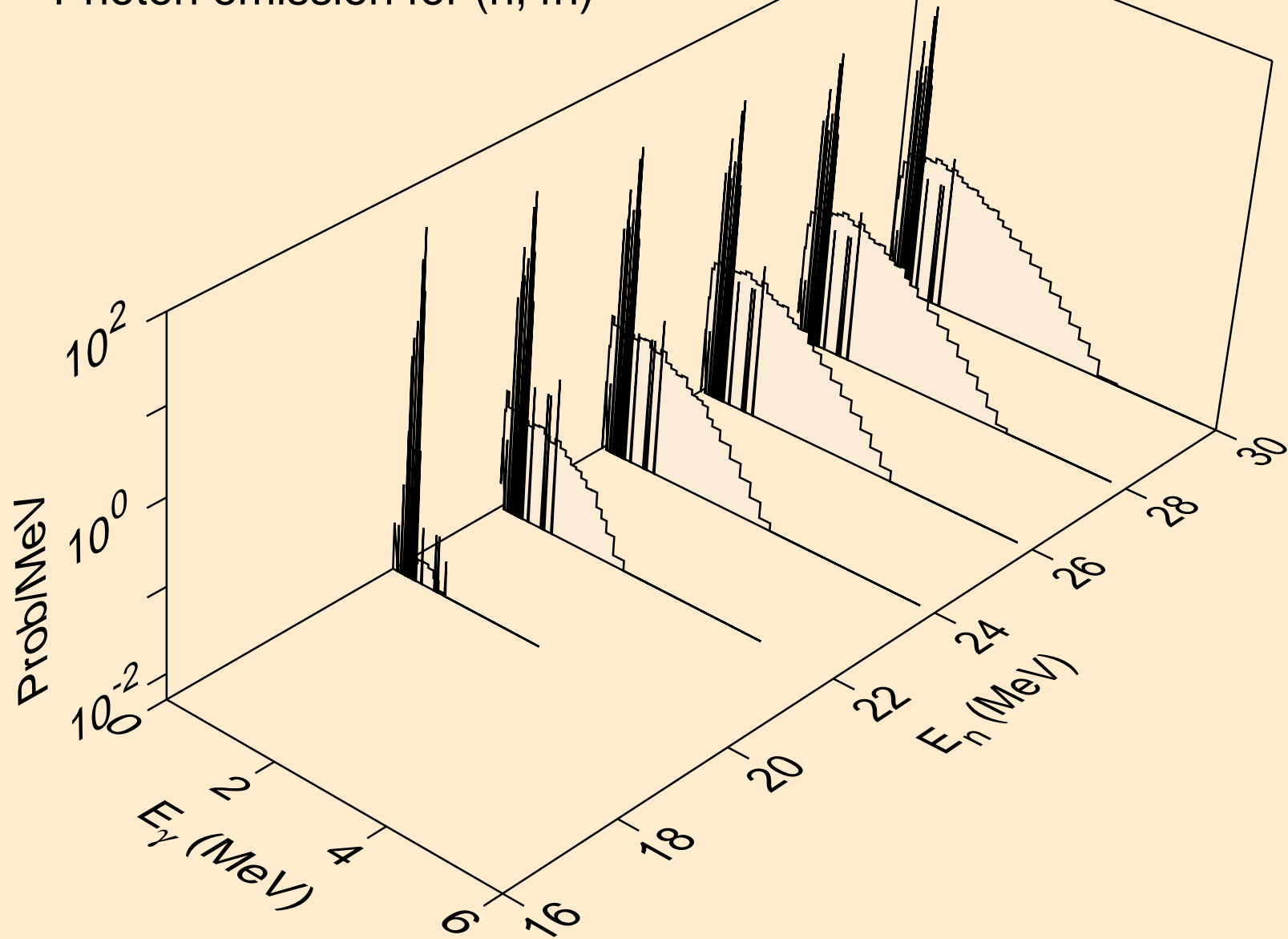
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



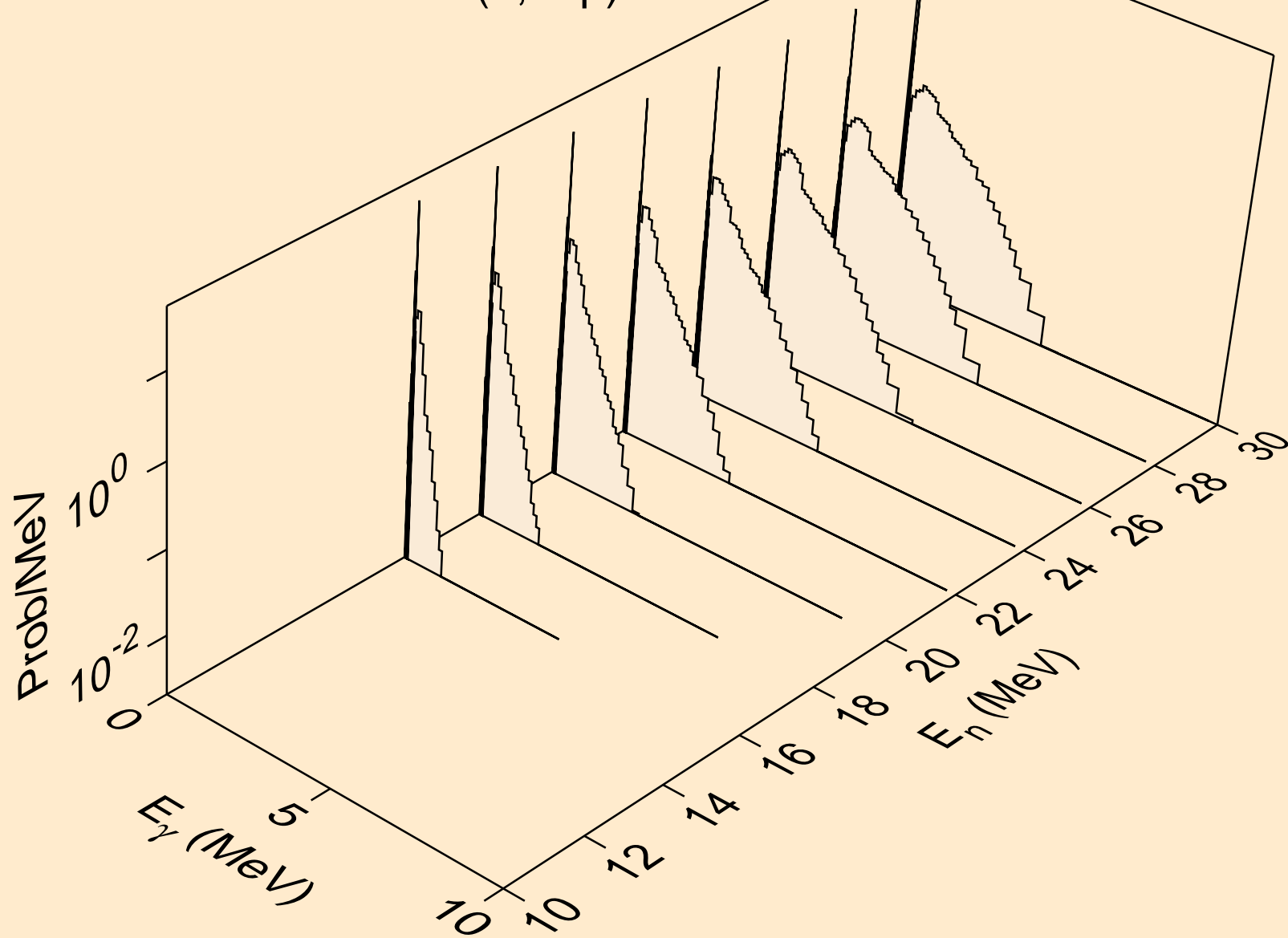
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Photon emission for (n,n\*)t2a



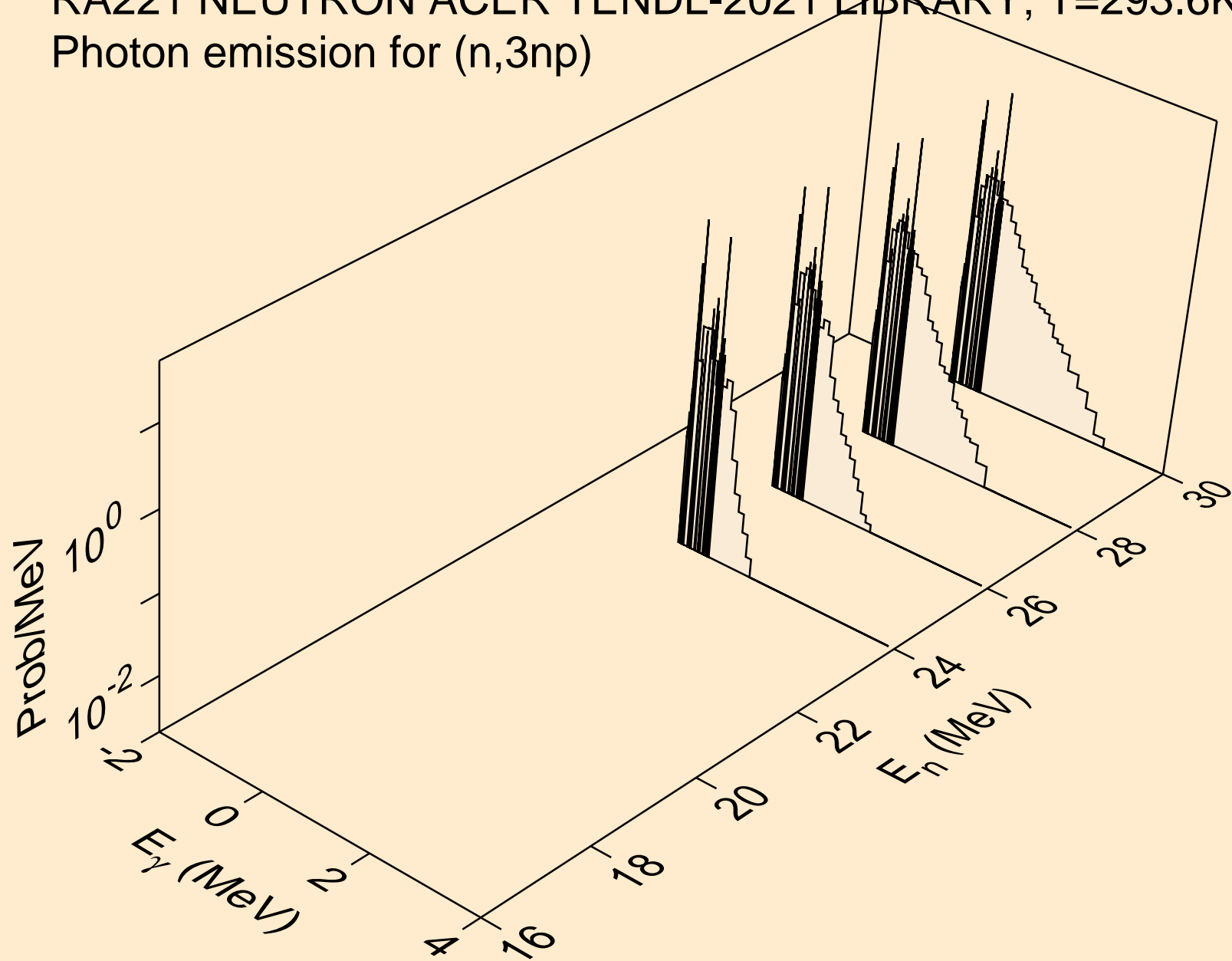
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



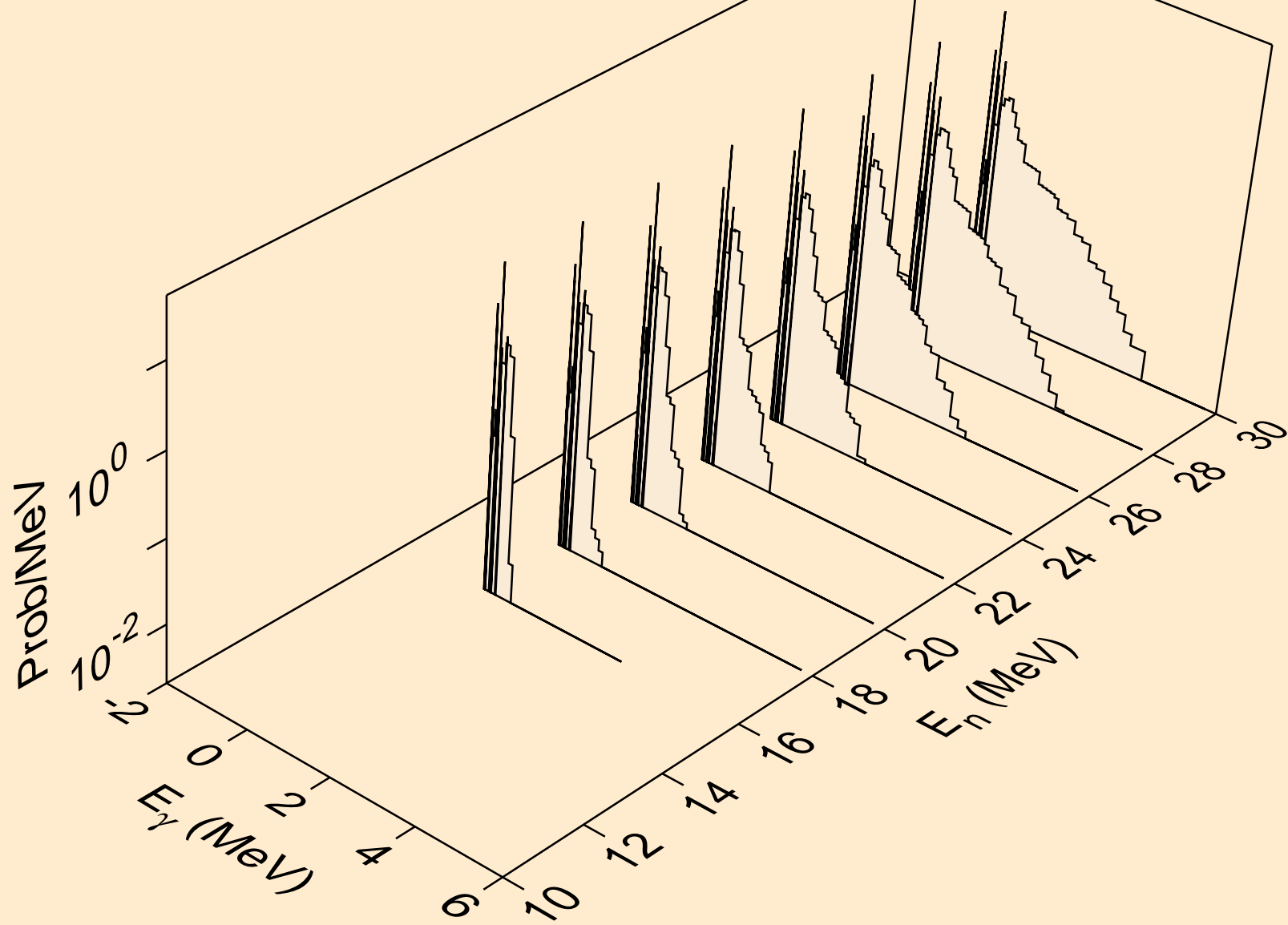
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



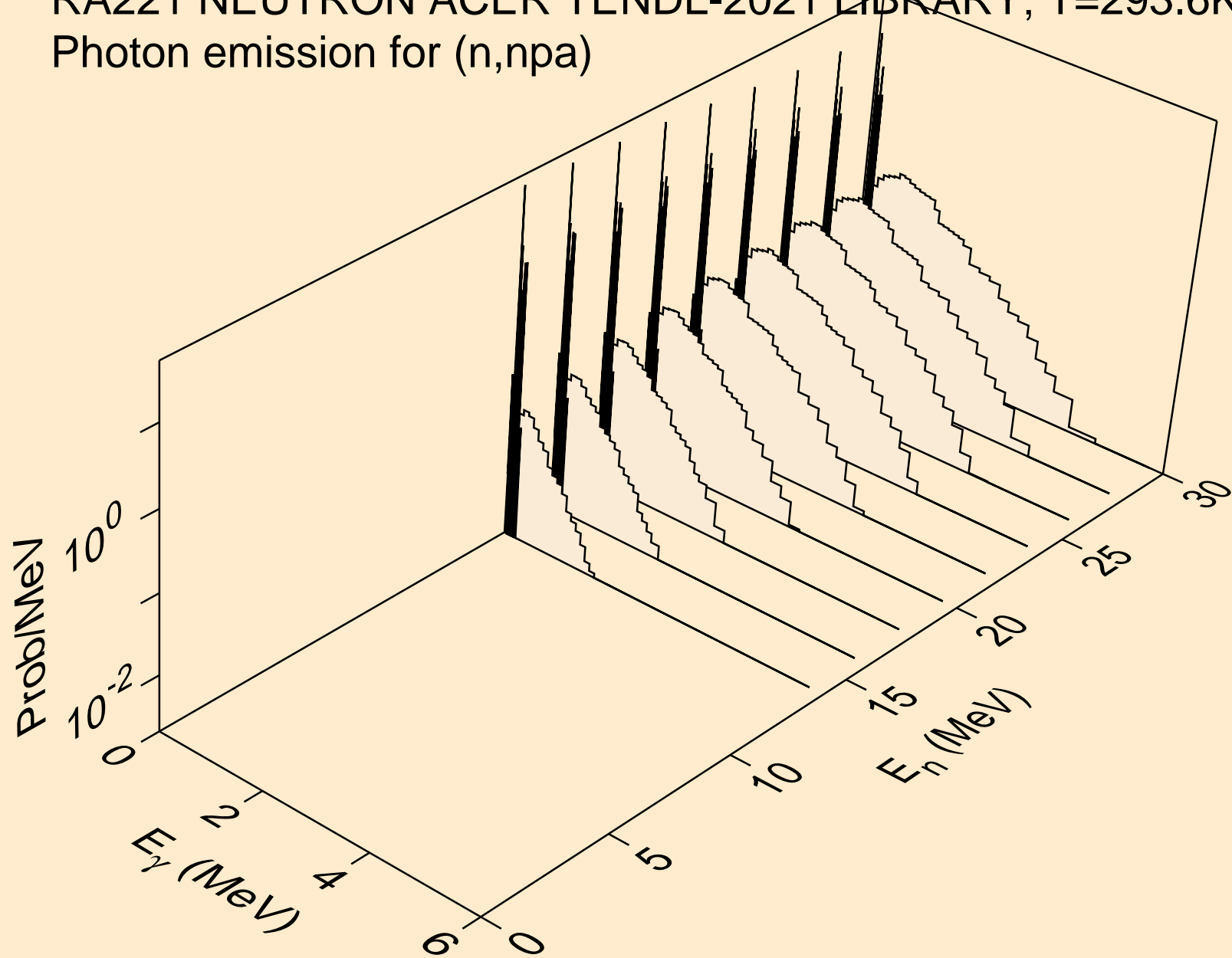
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)

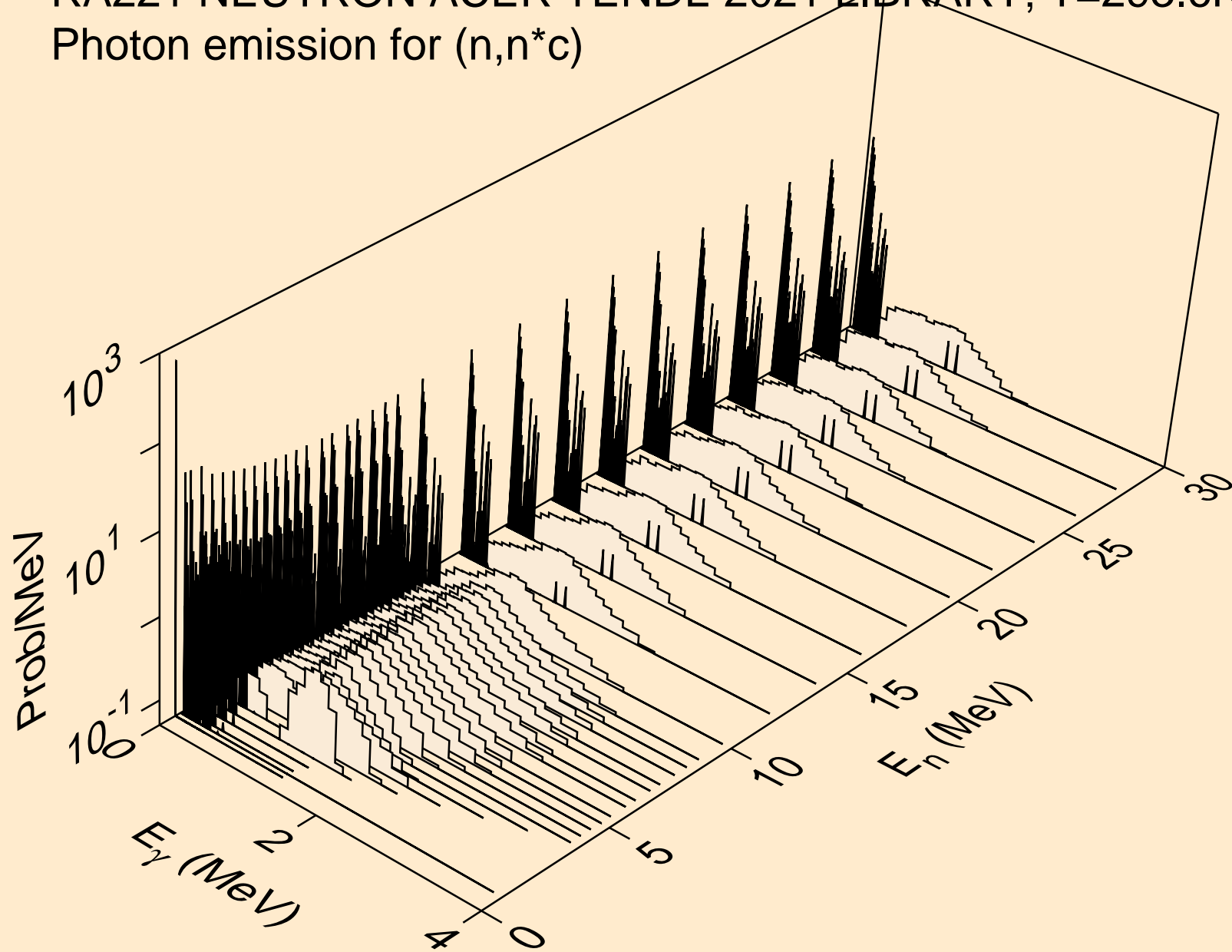


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

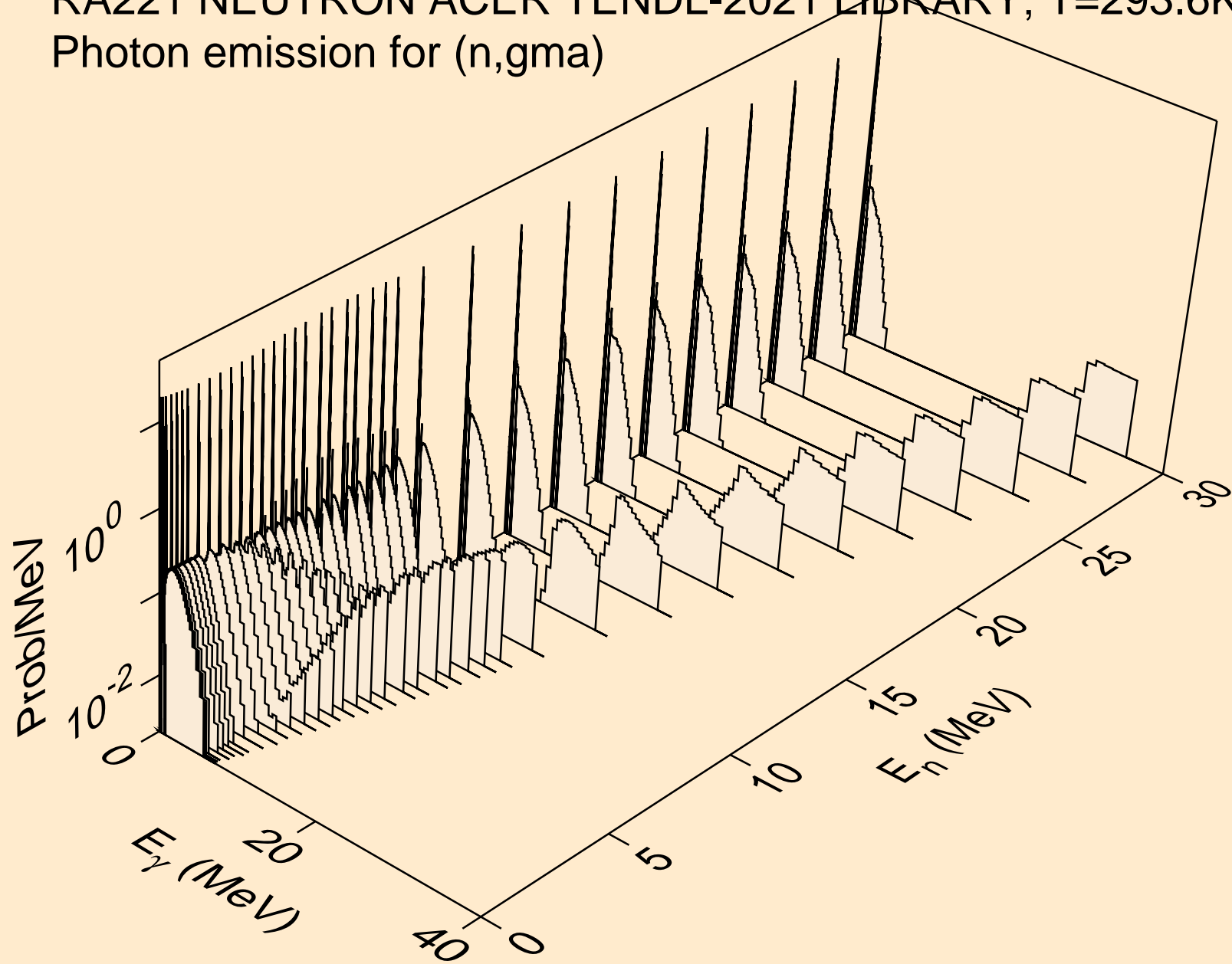




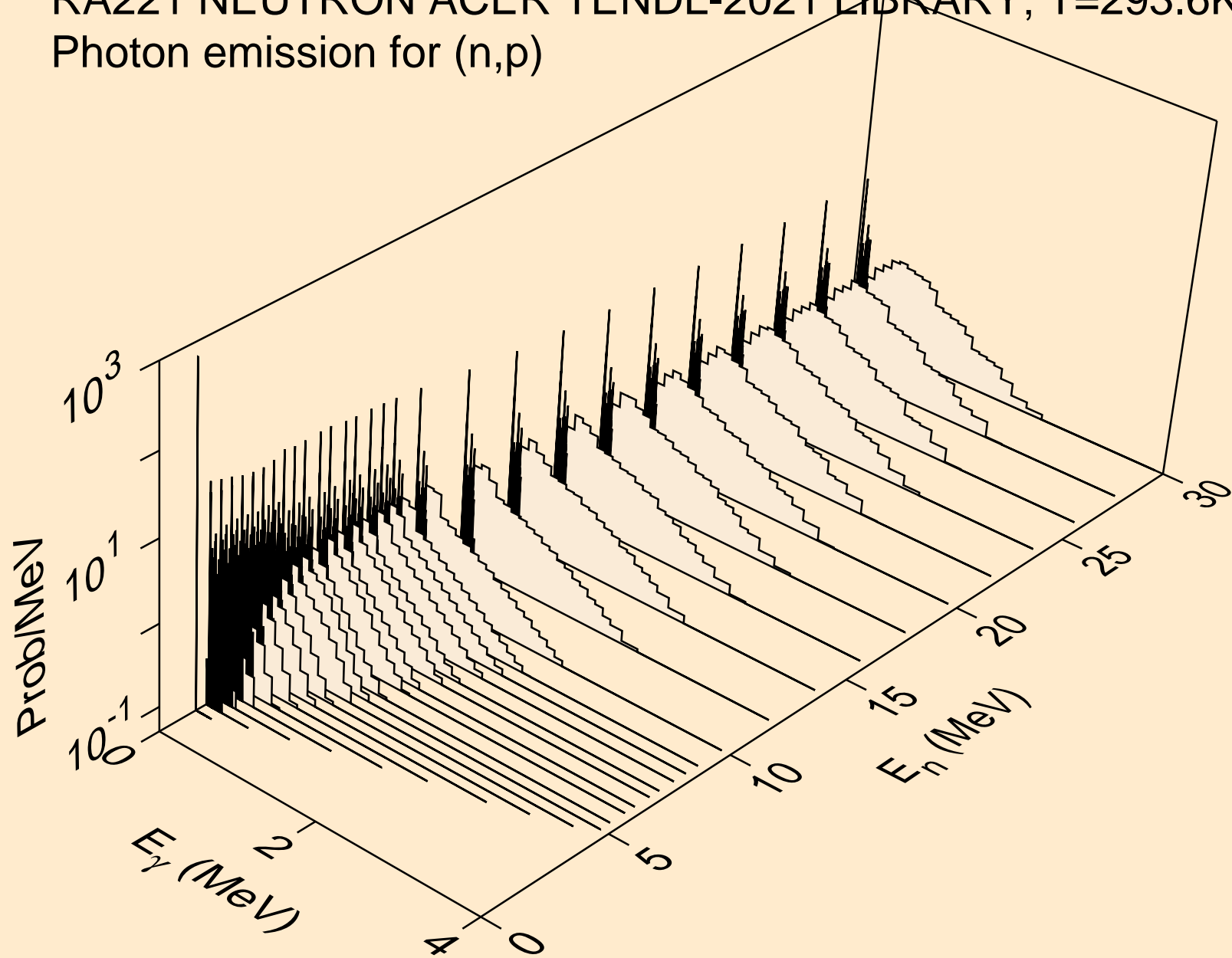
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Photon emission for (n,n\*c)



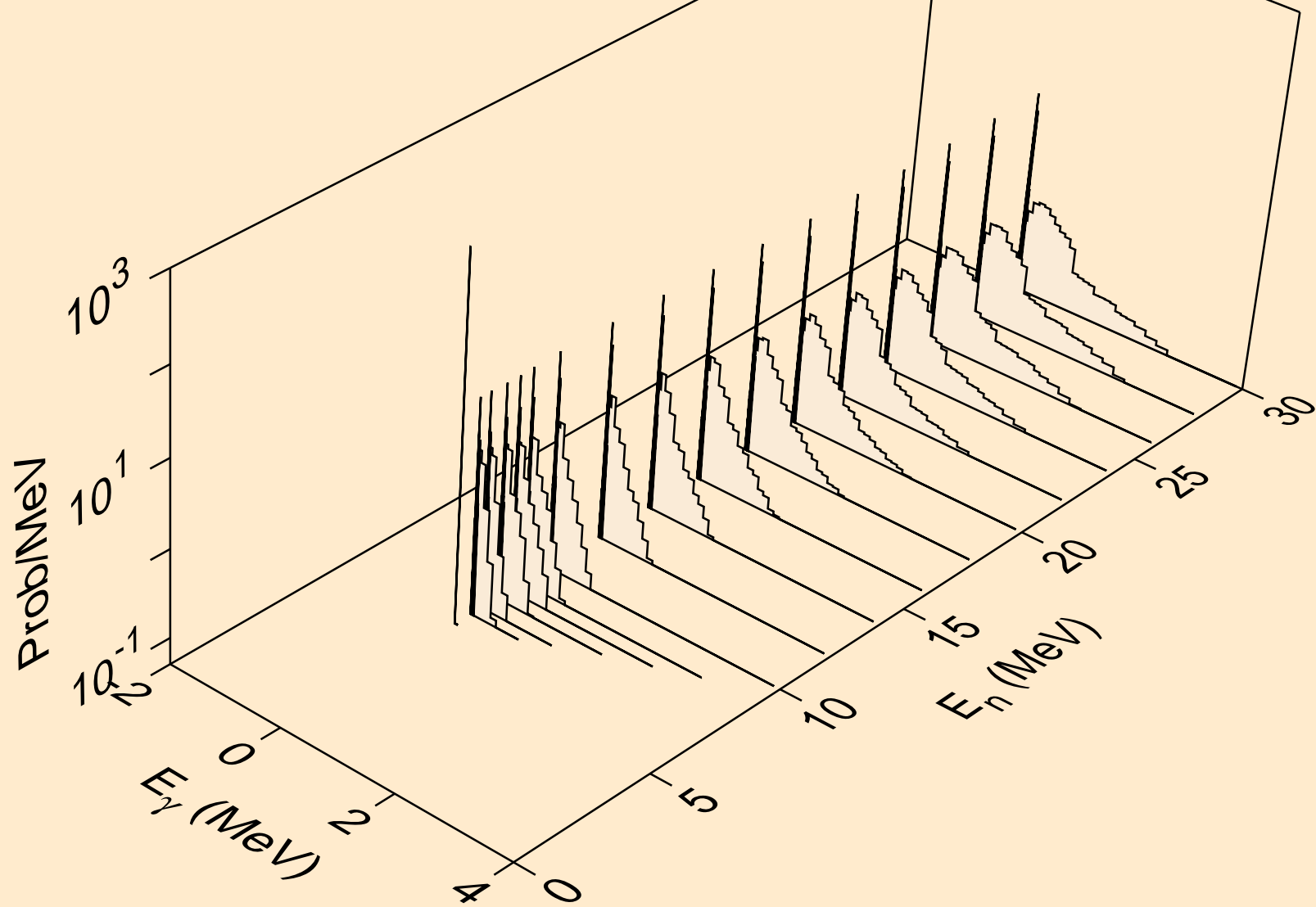
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Photon emission for (n,gma)



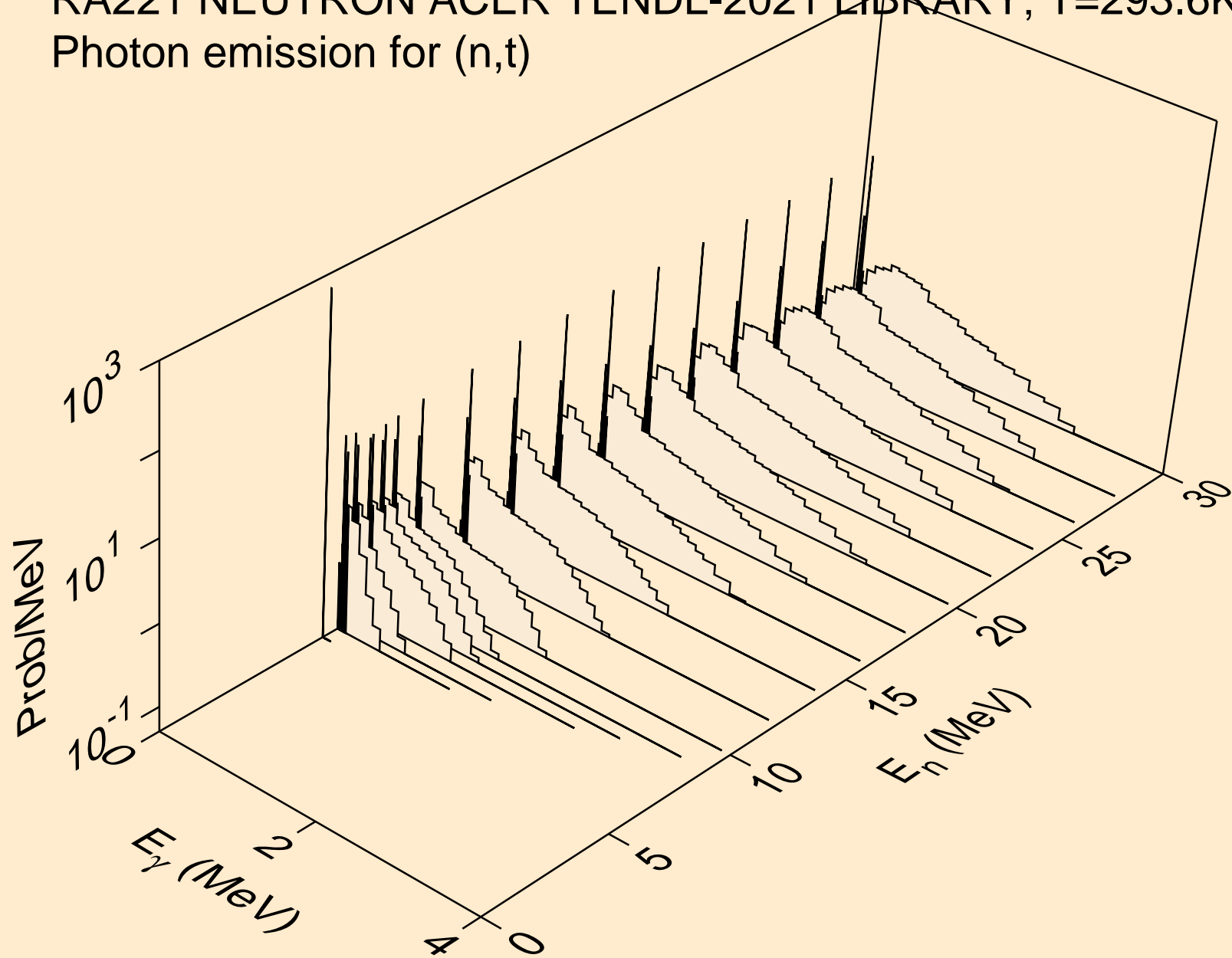
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Photon emission for (n,p)



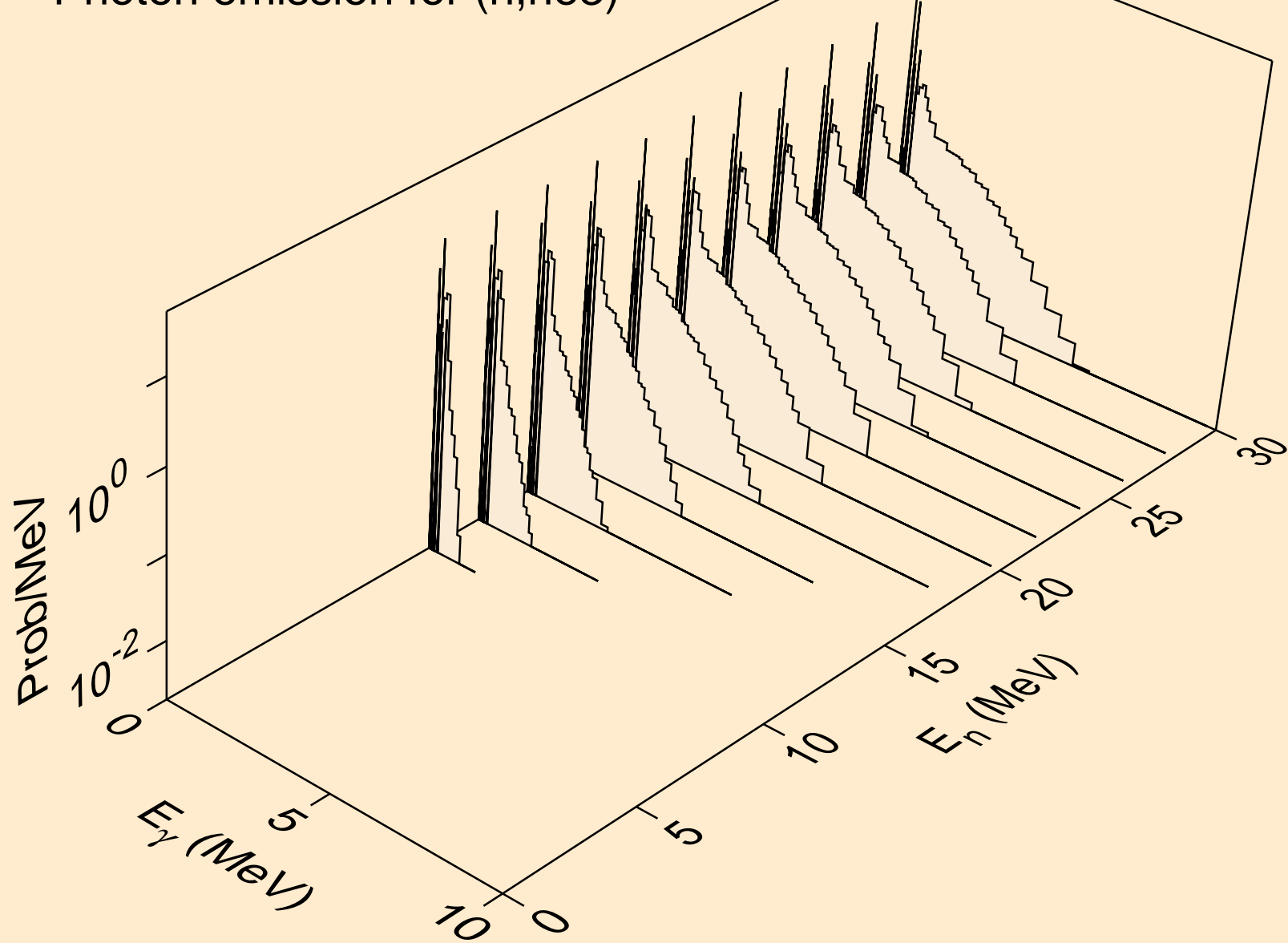
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



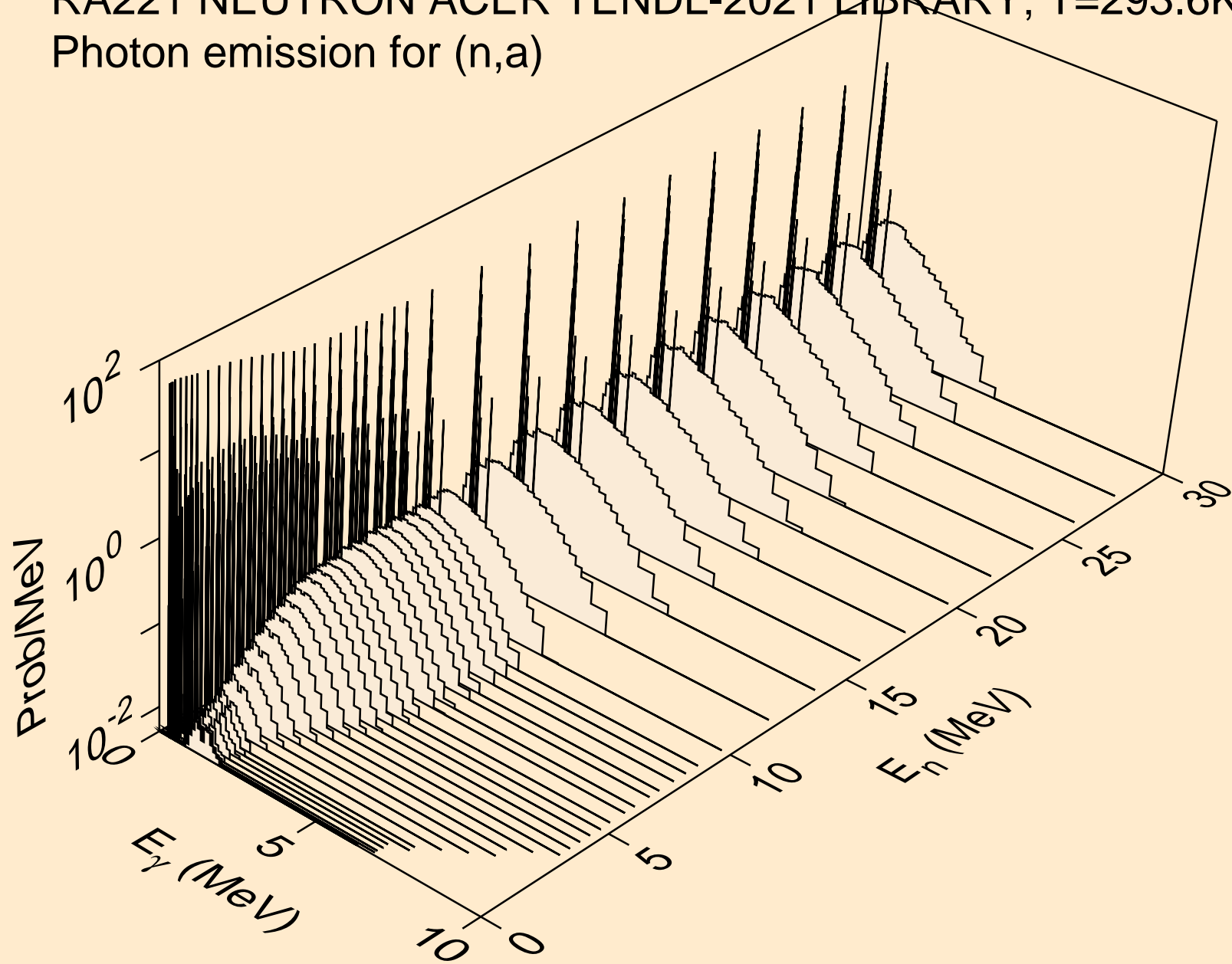
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



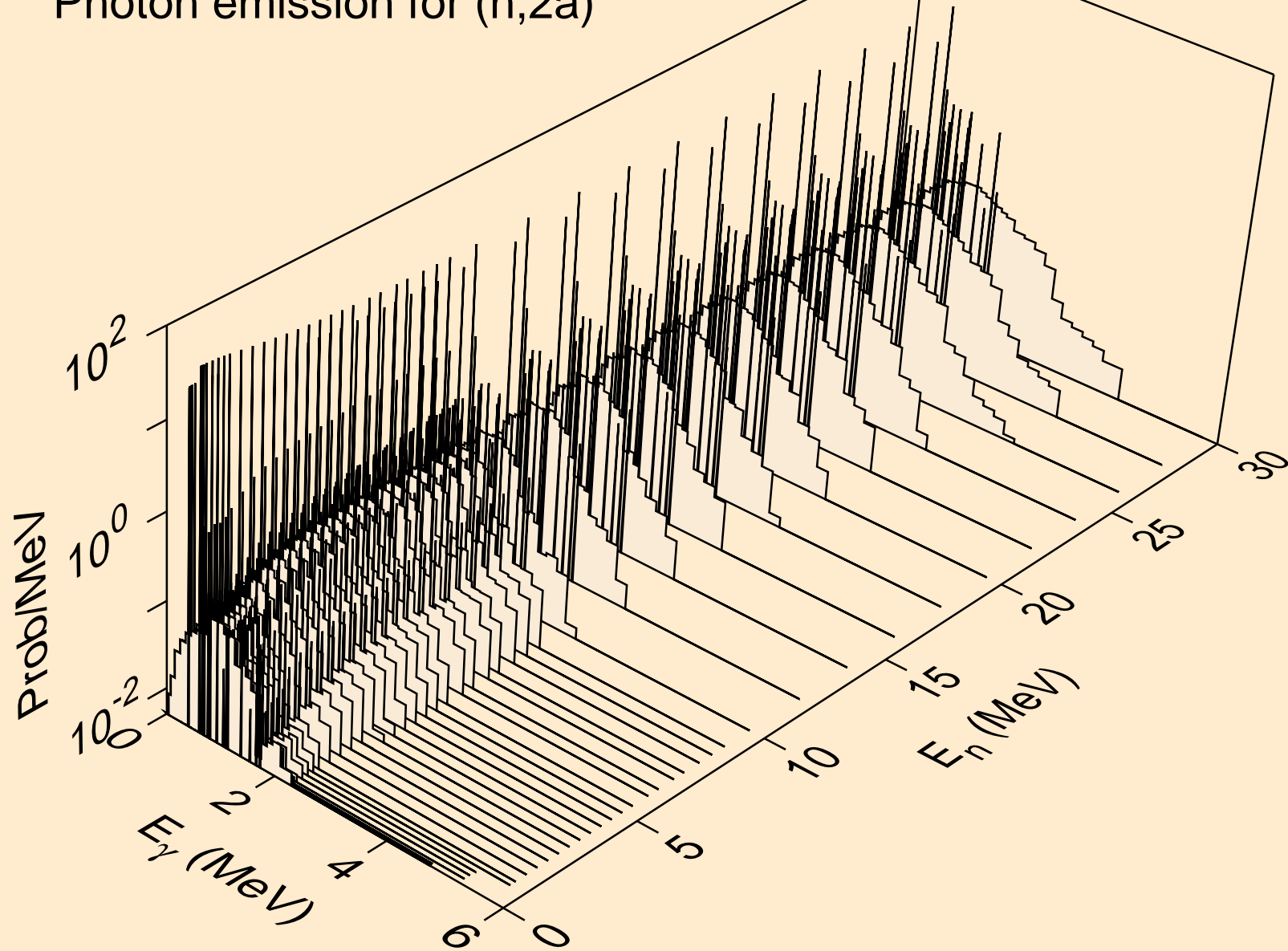
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)

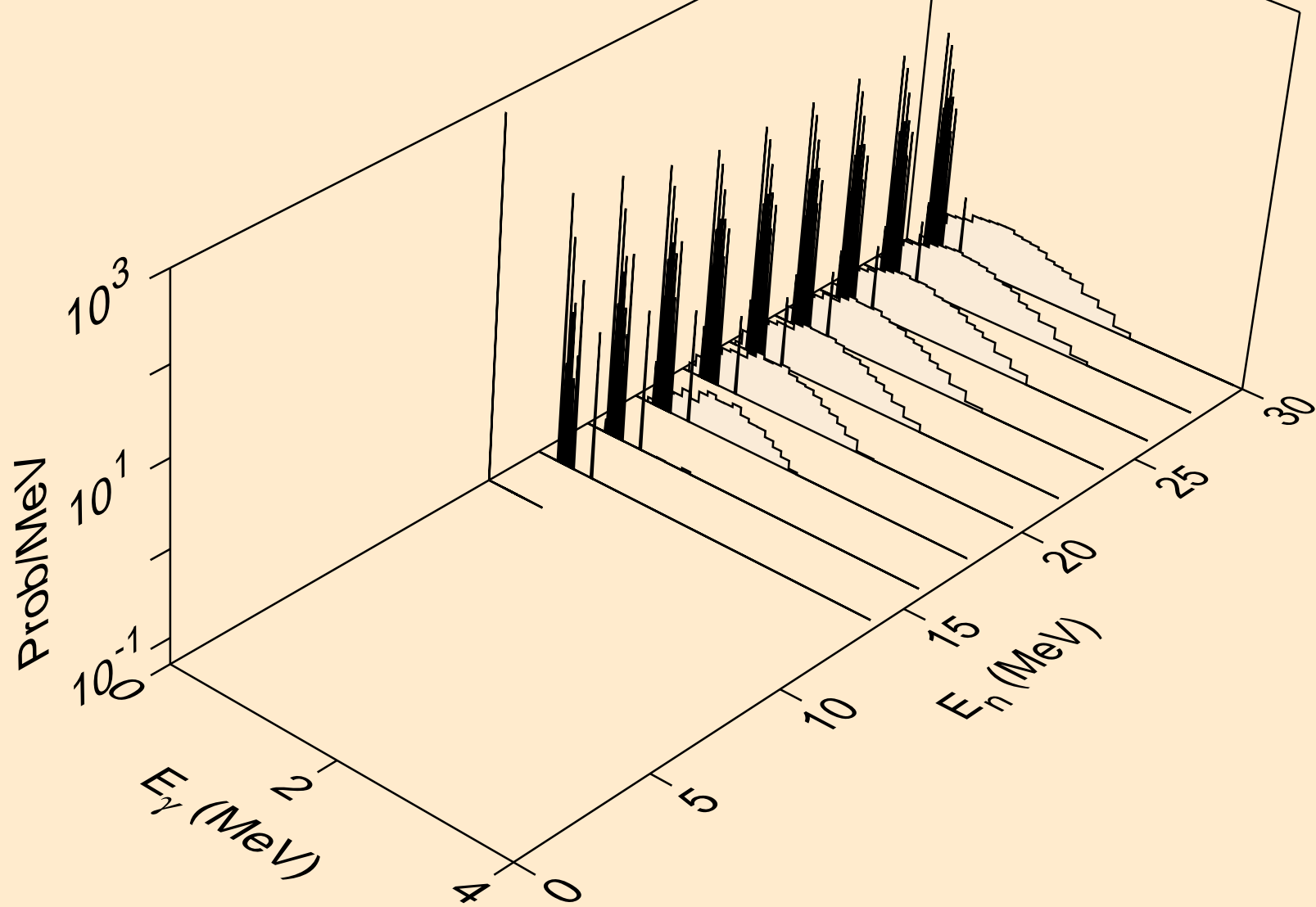


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Photon emission for (n,2a)

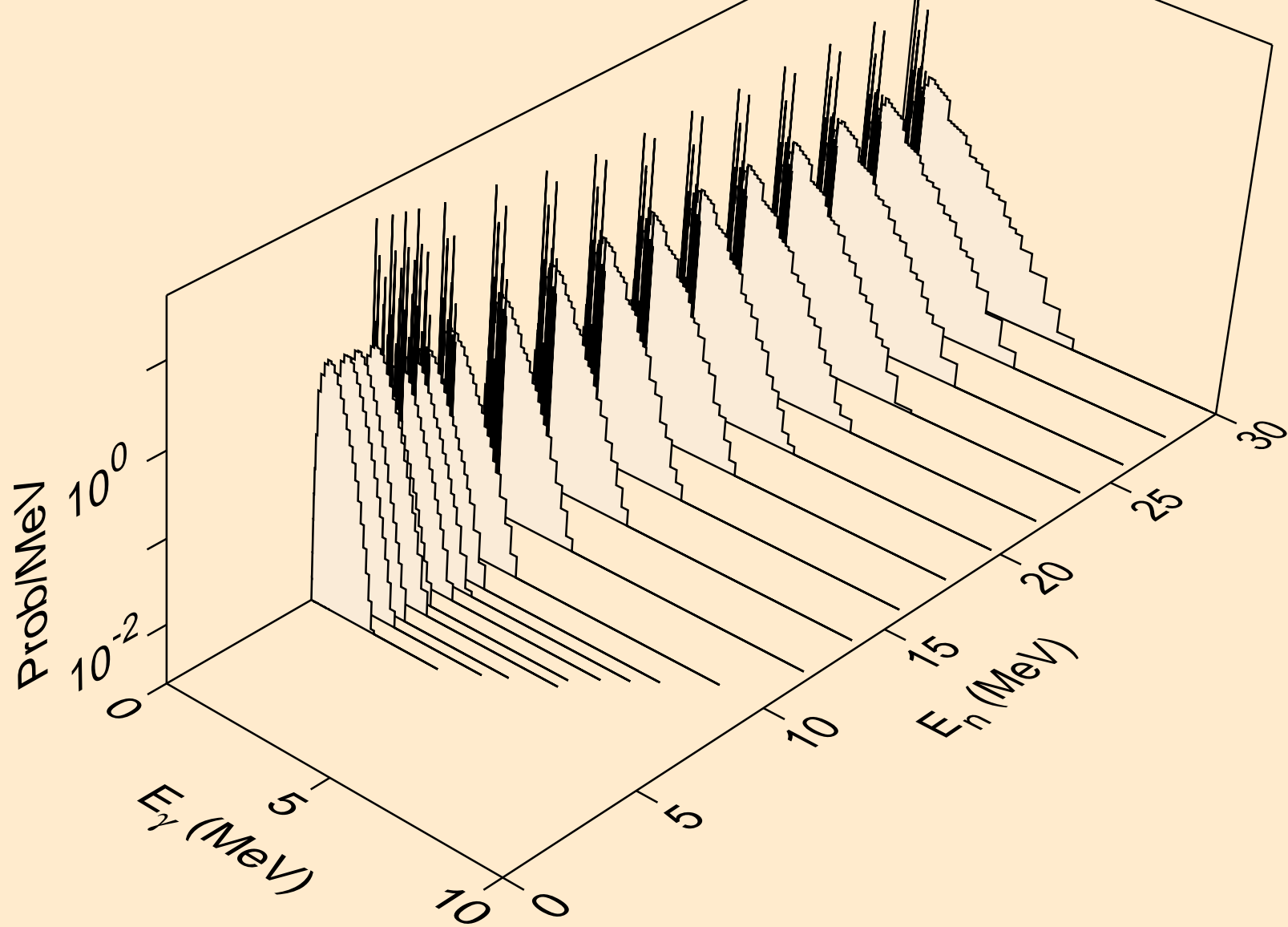




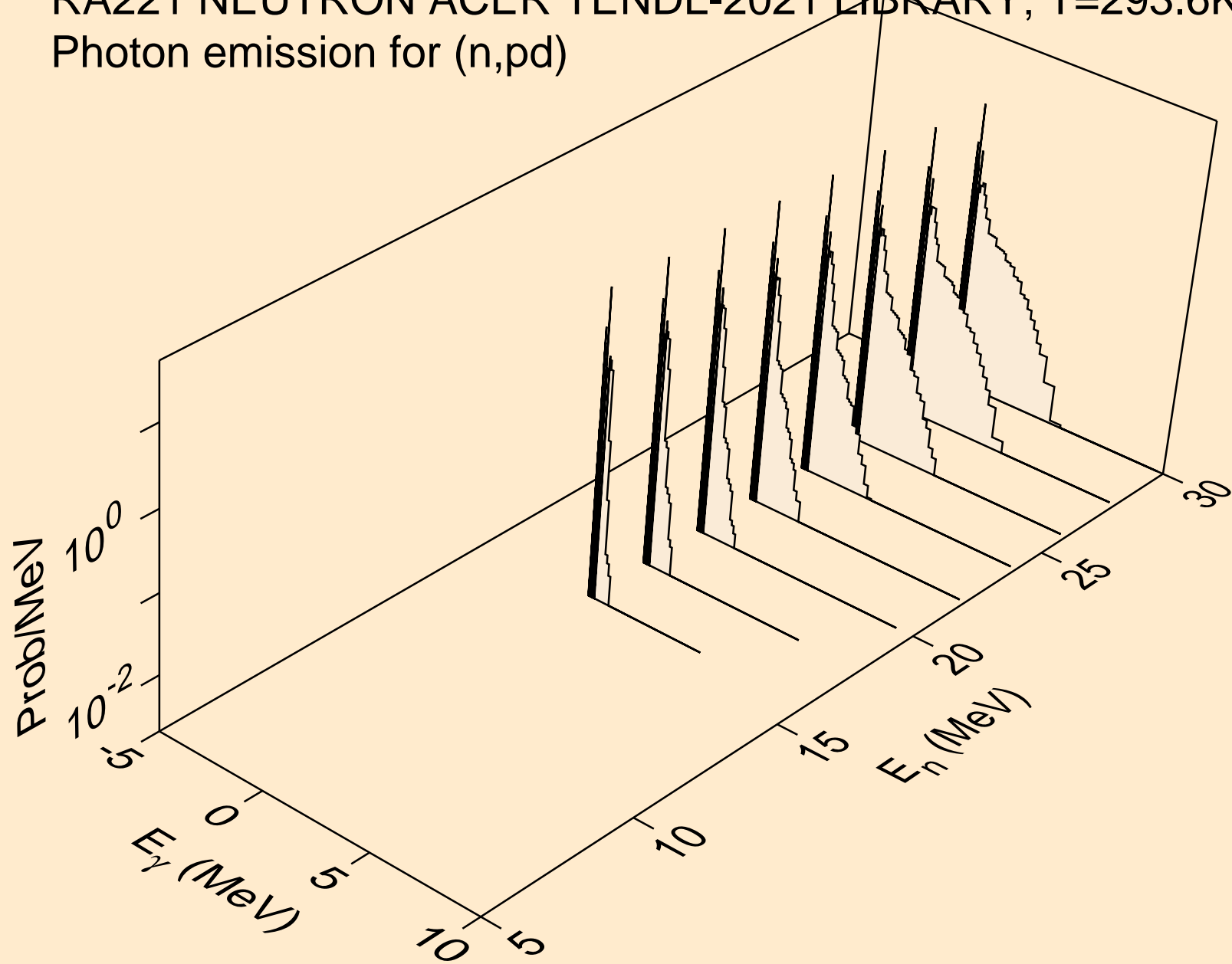
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Photon emission for (n,2p)



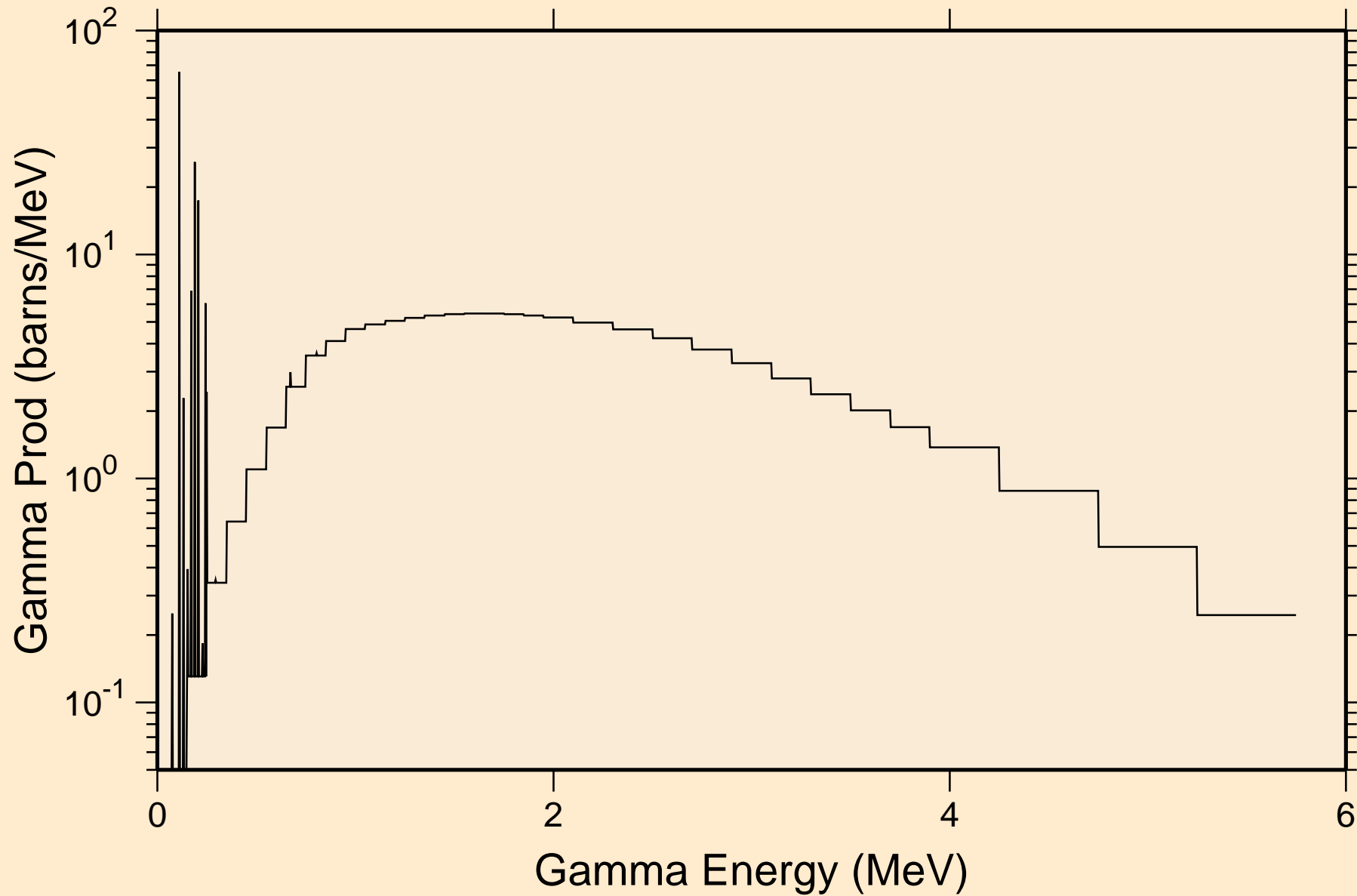
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Photon emission for (n,p)



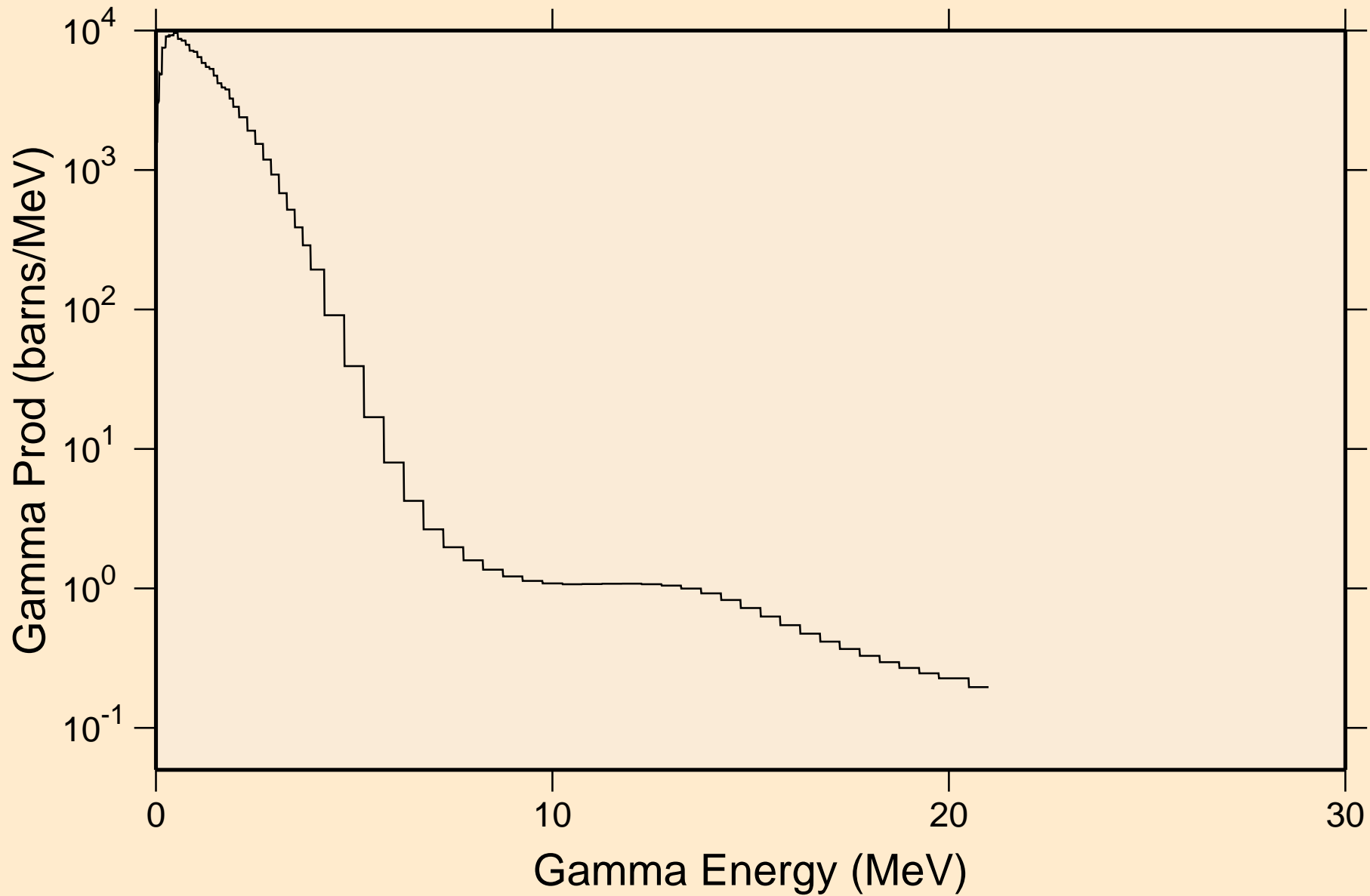
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

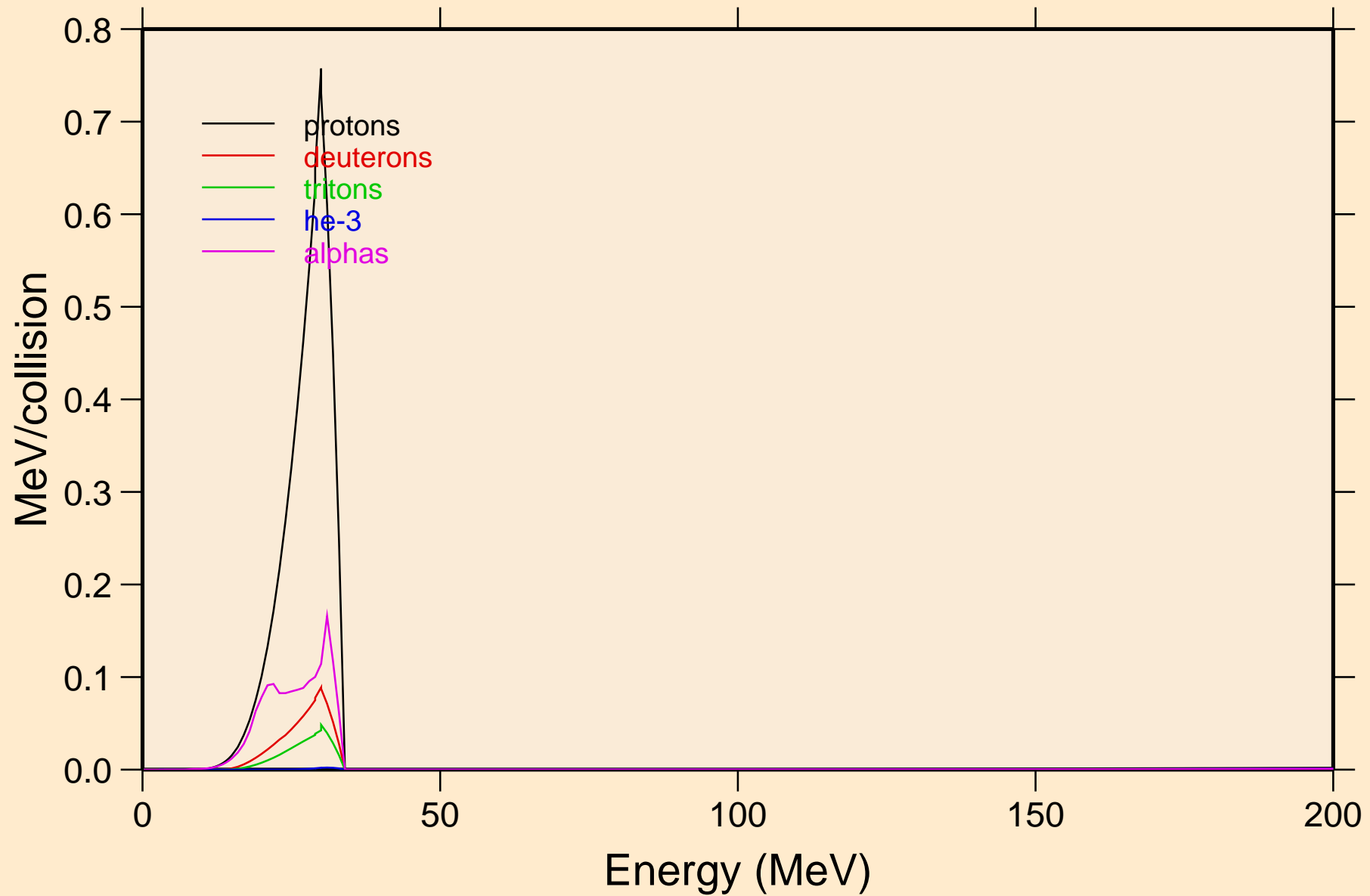


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum

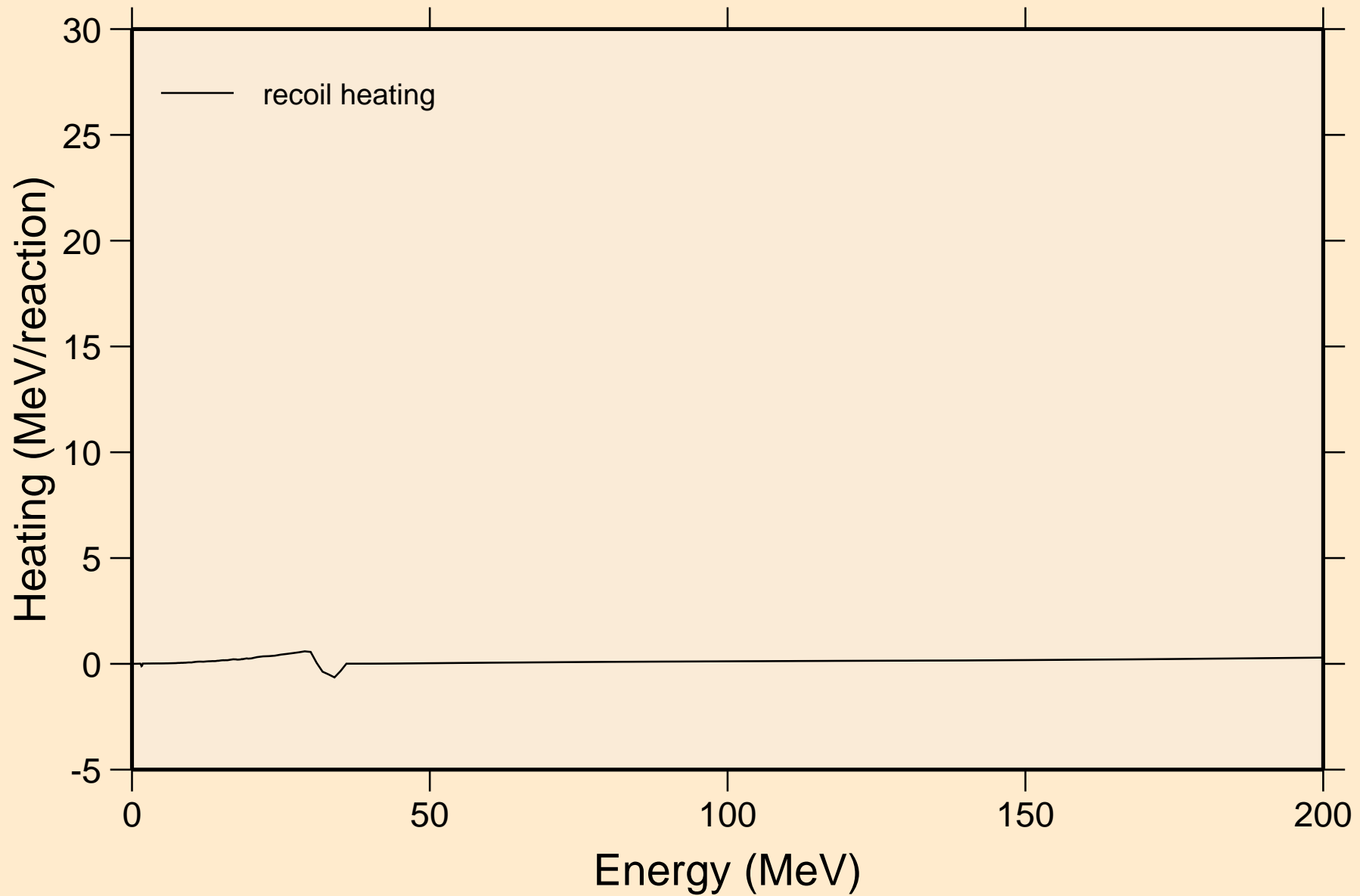


# RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

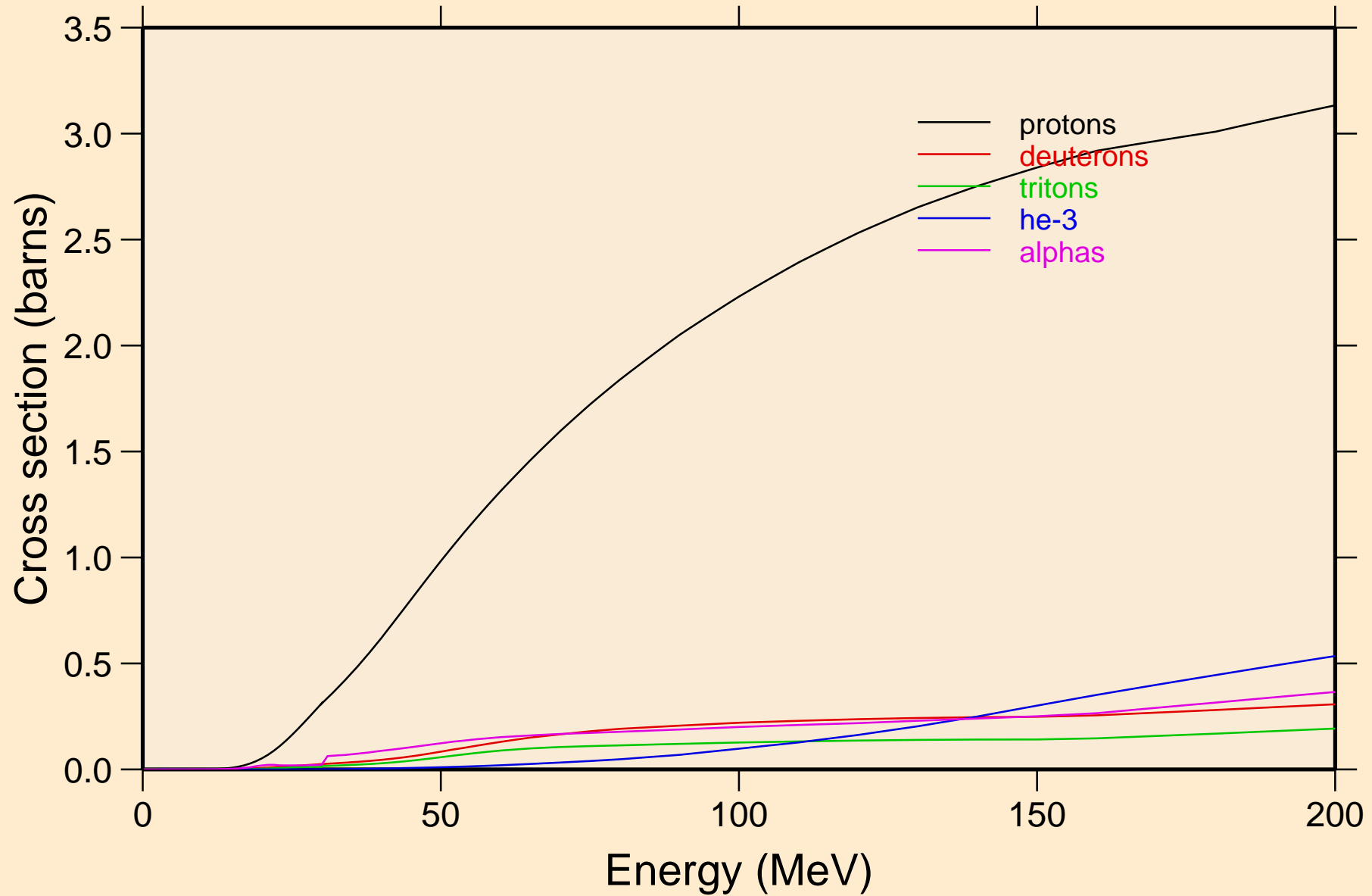
## Particle heating contributions



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating

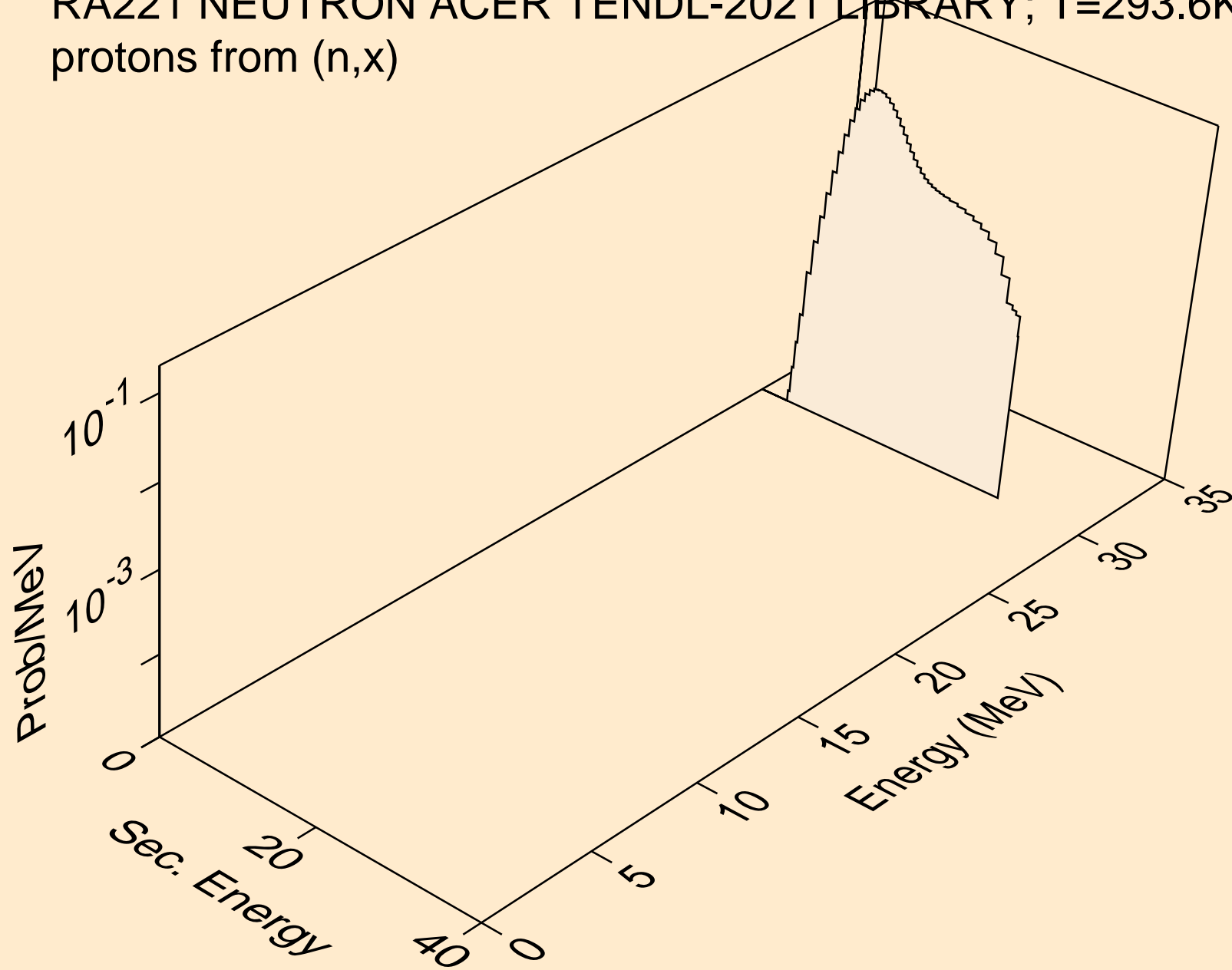


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections

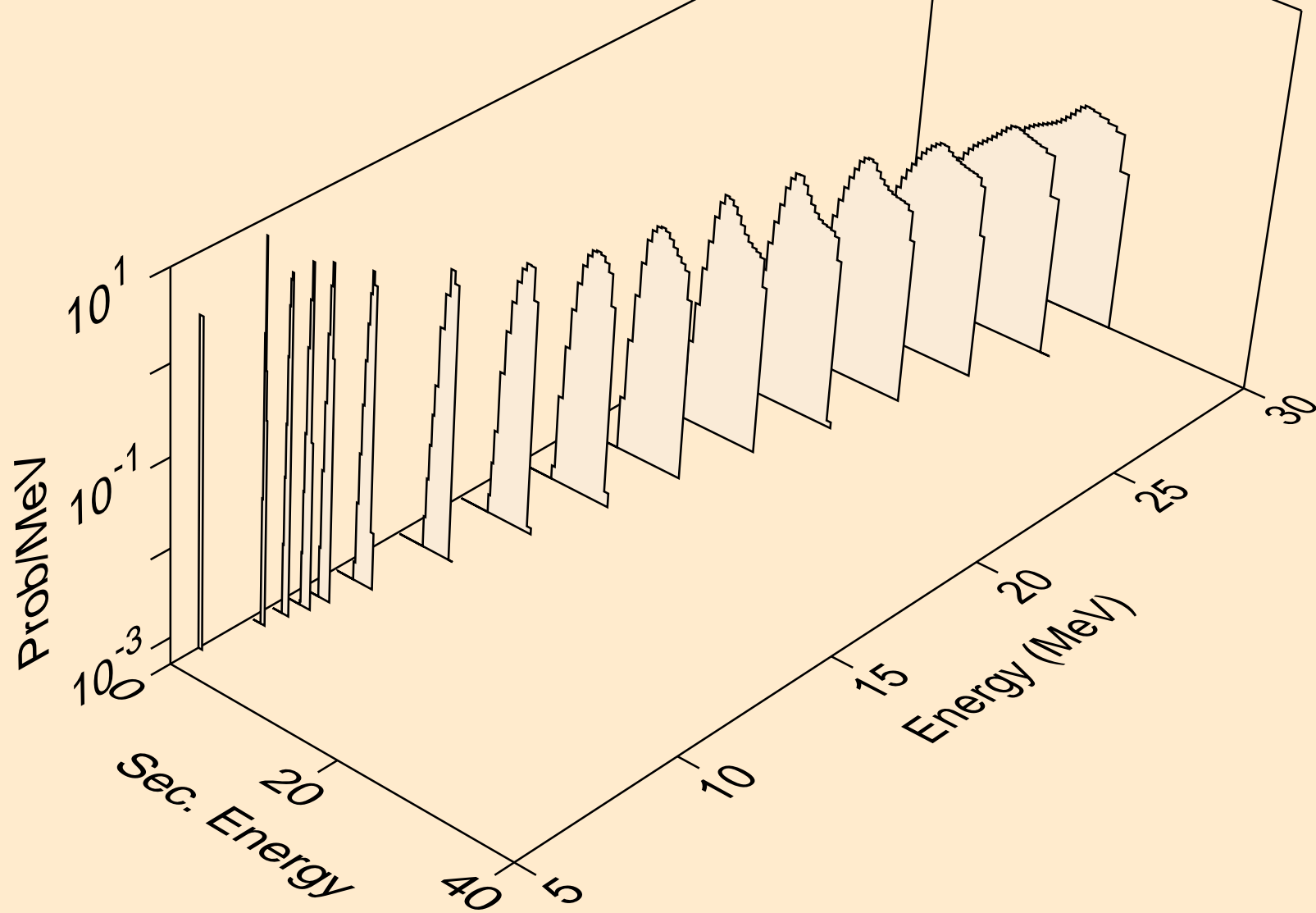




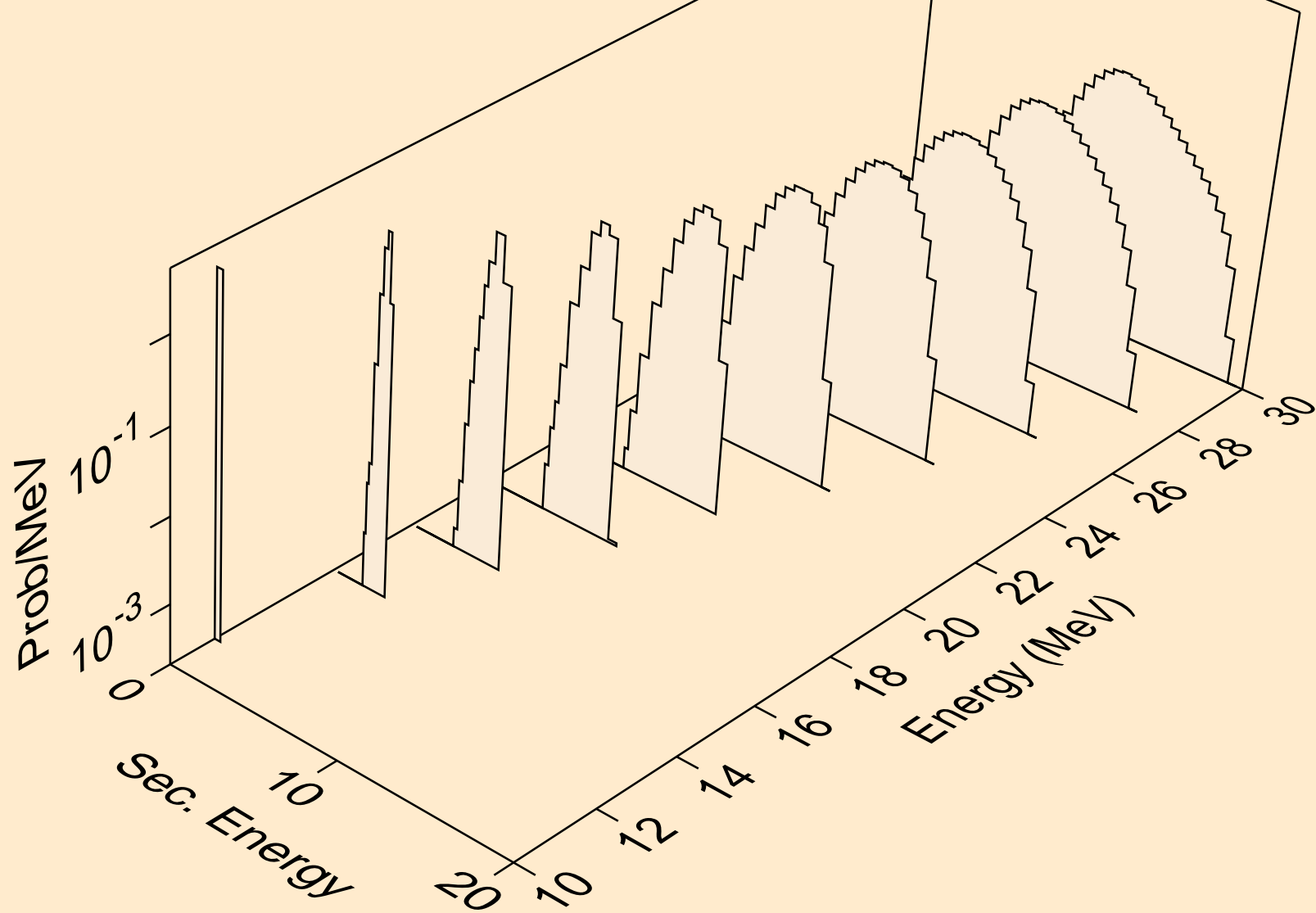
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



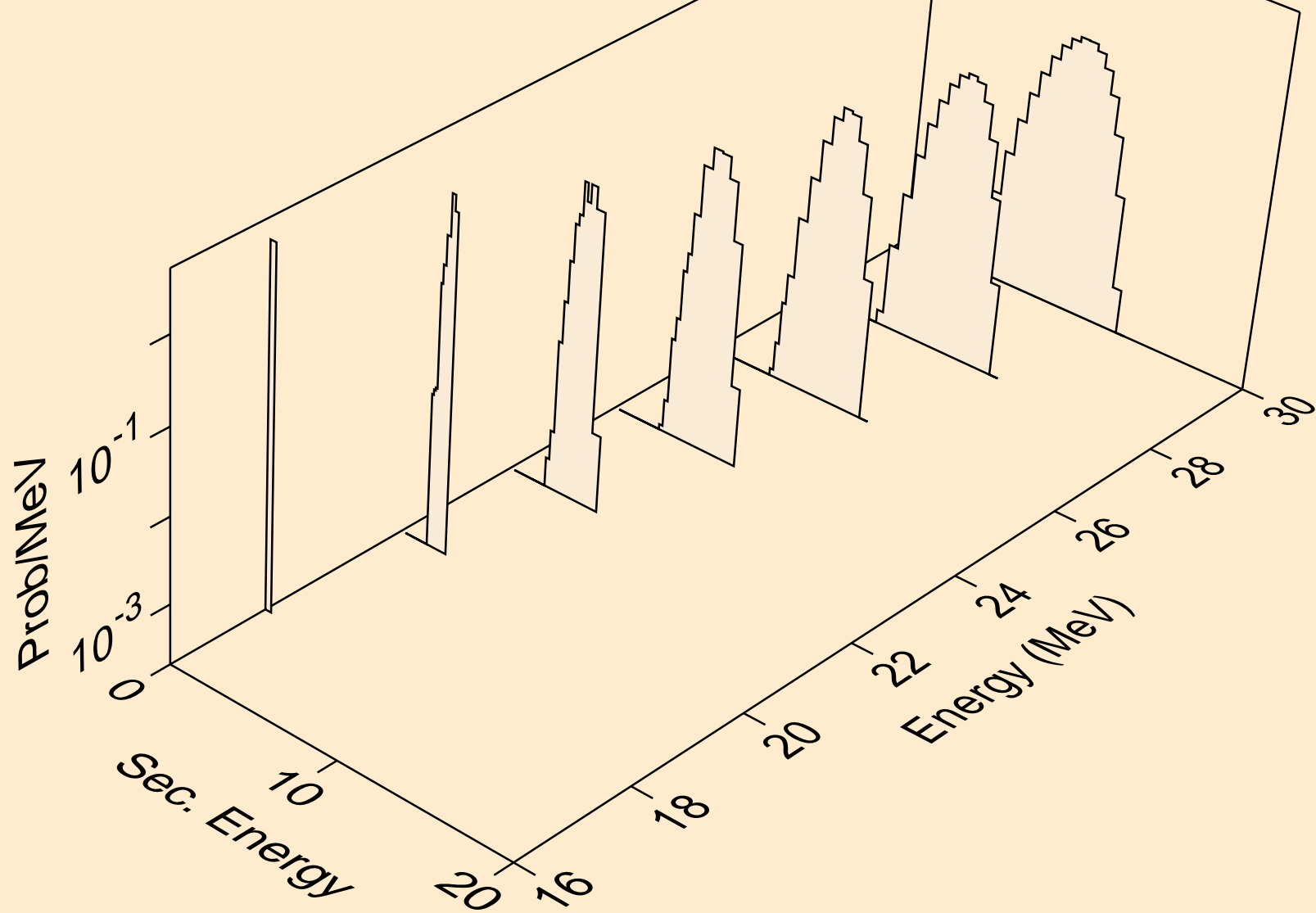
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



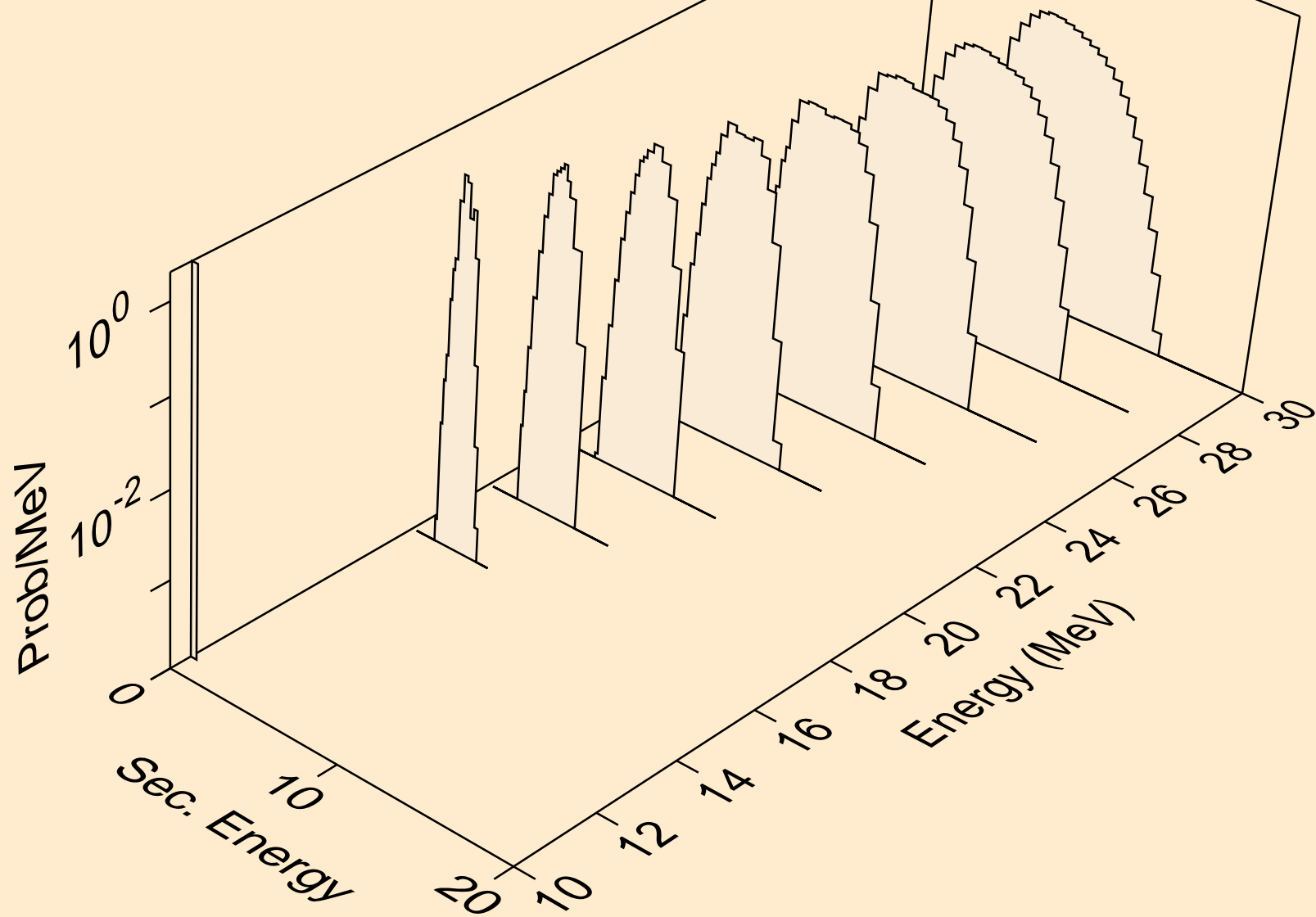
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protons from (n,2np)



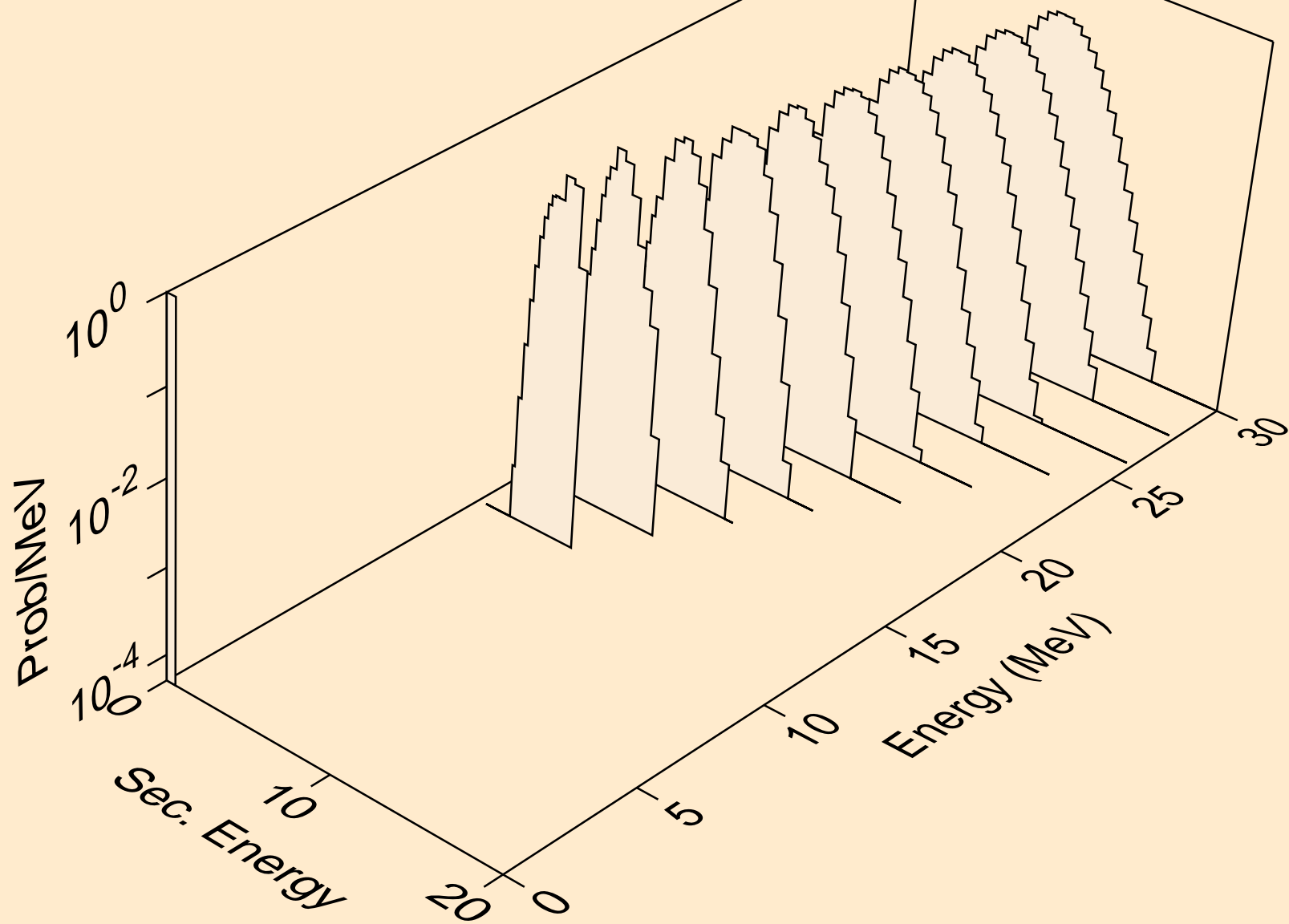
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protons from (n,3np)



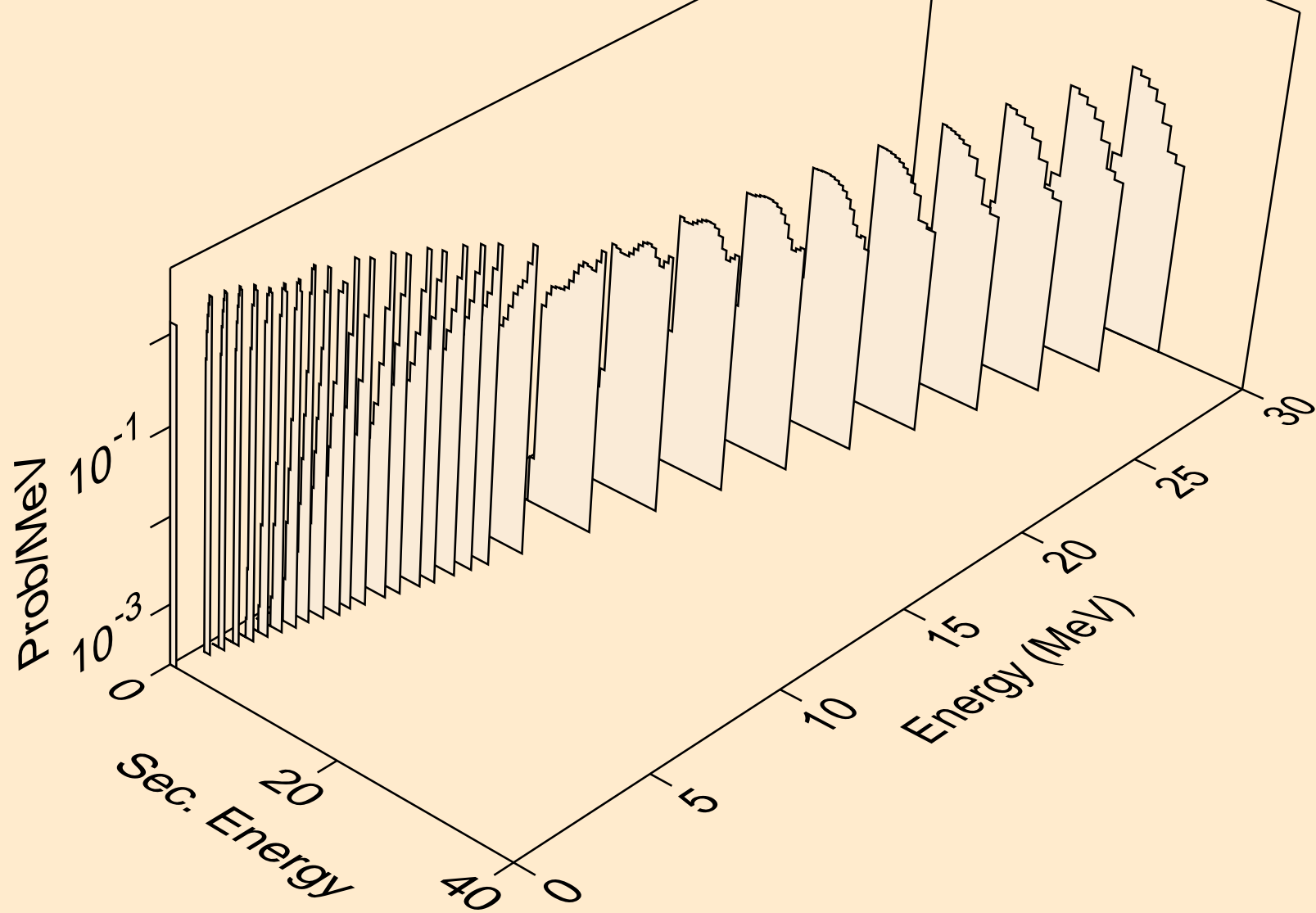
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protons from (n,2np)



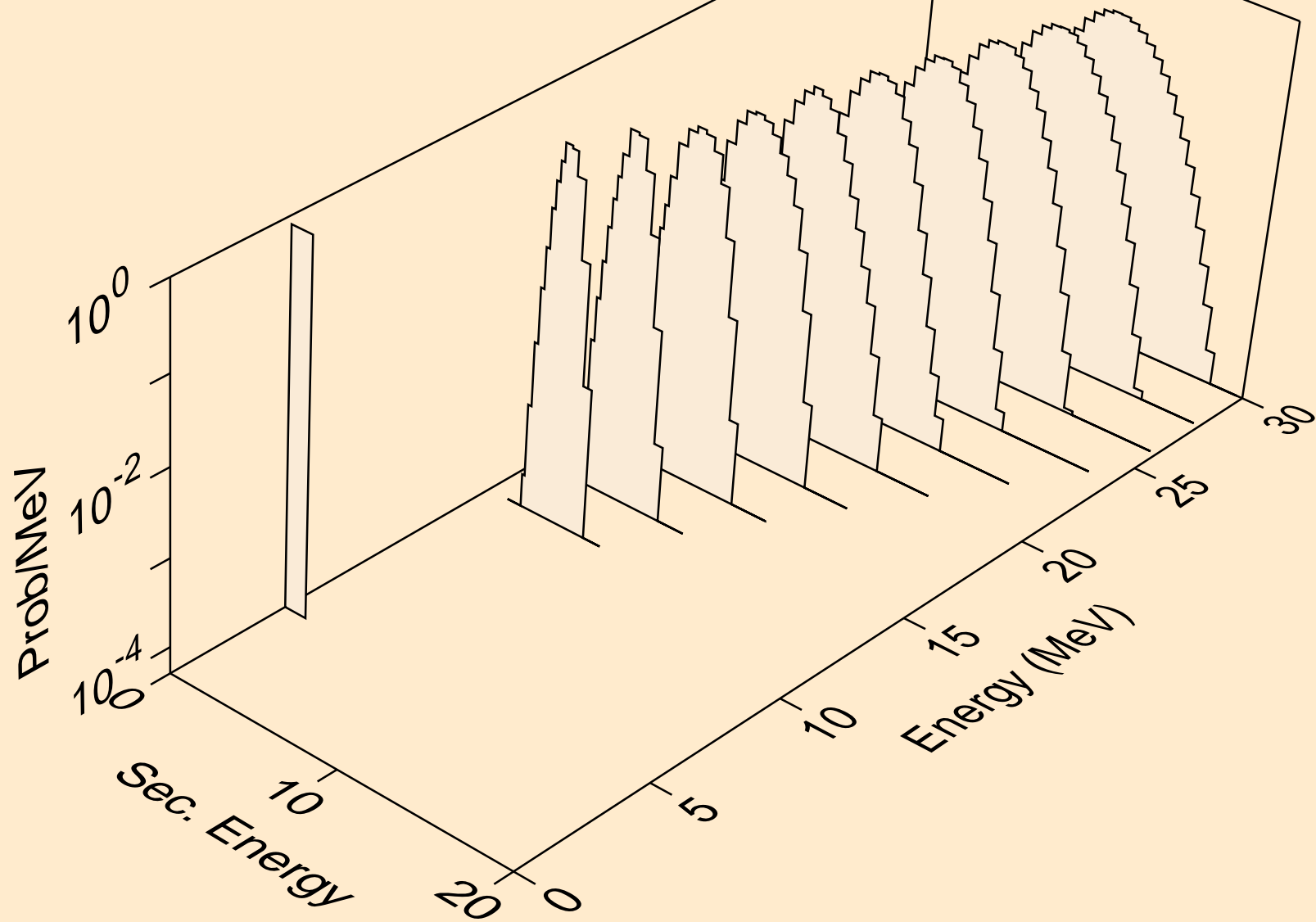
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,npa)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

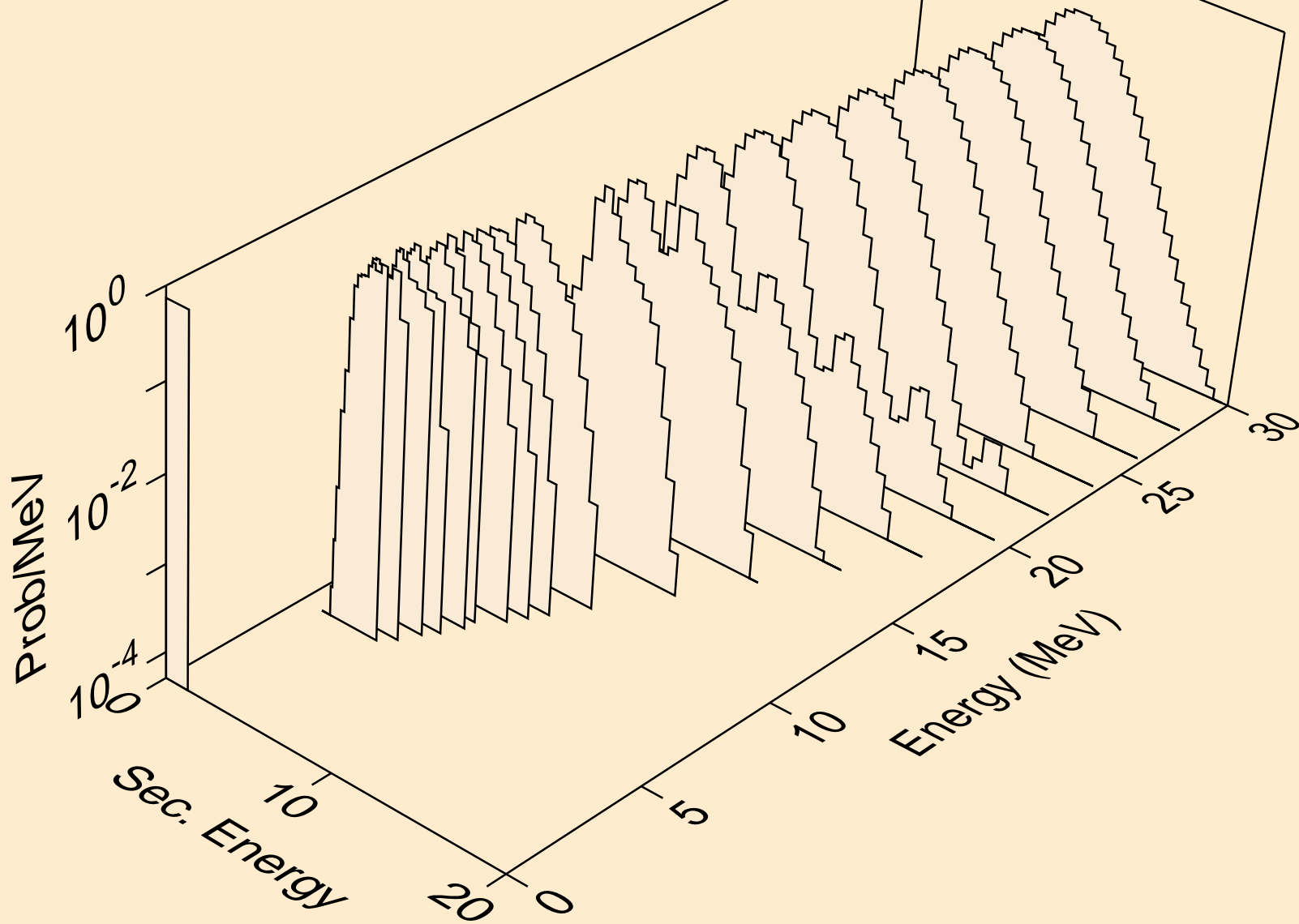


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protons from (n,2p)

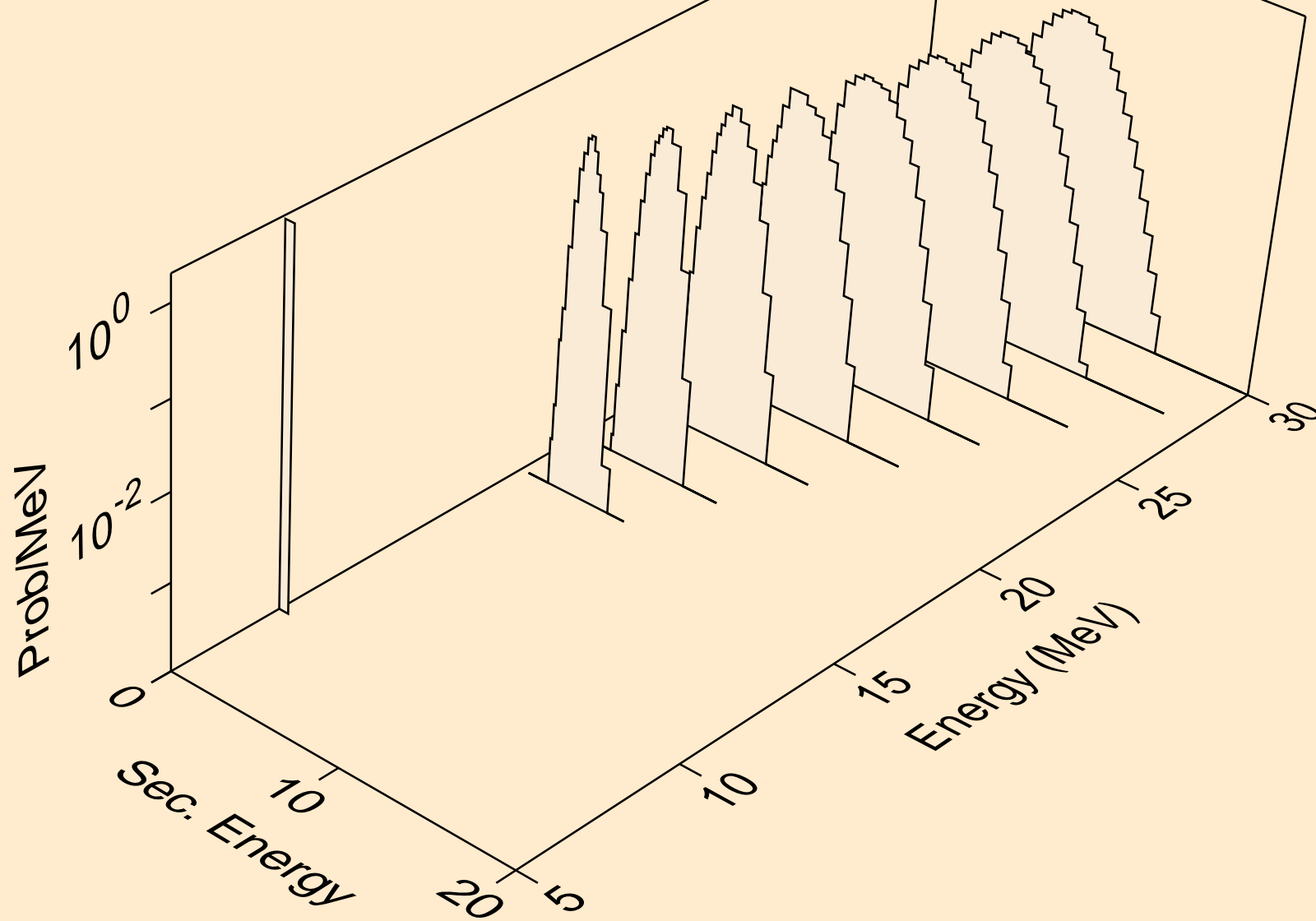




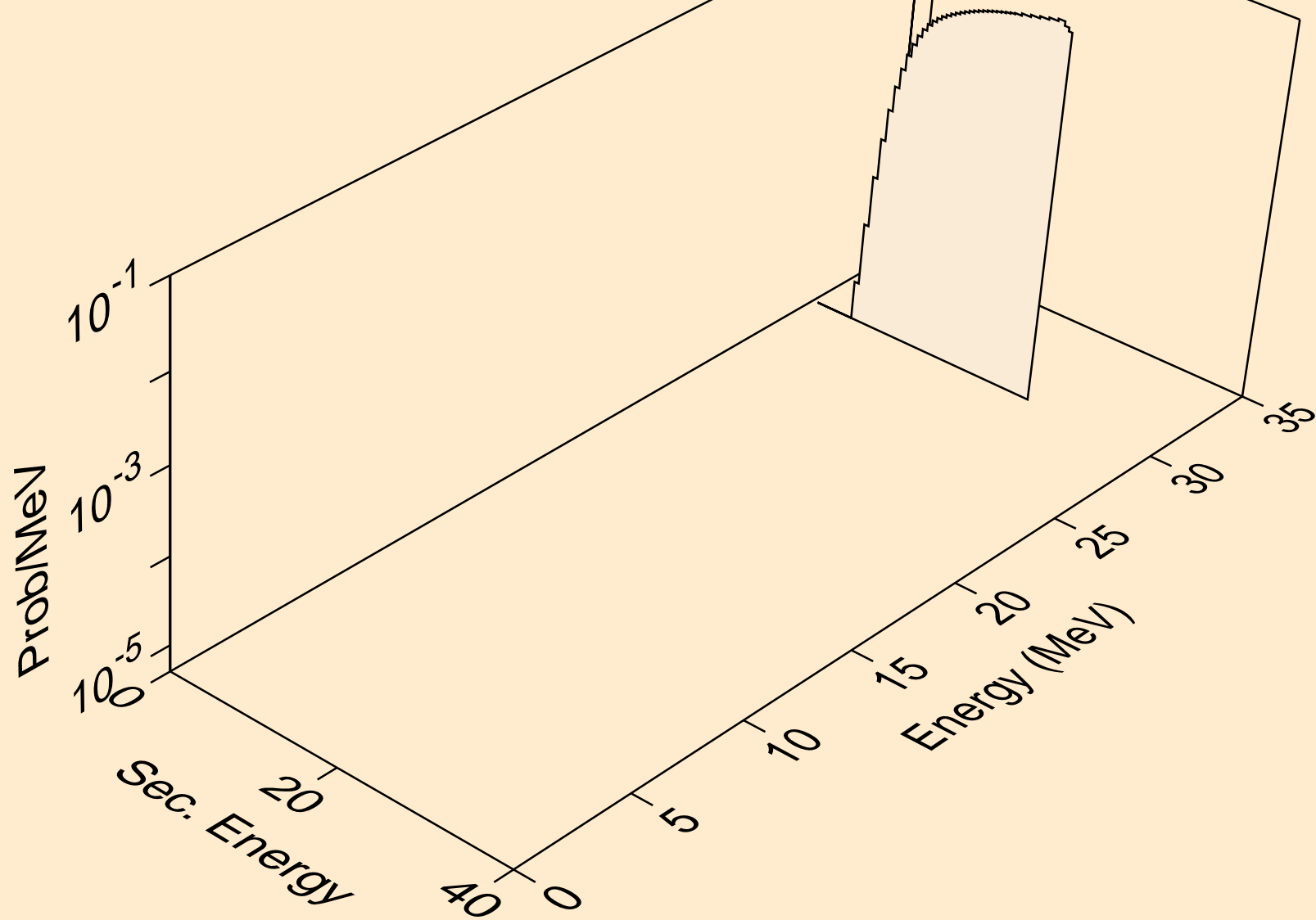
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protons from (n,p)



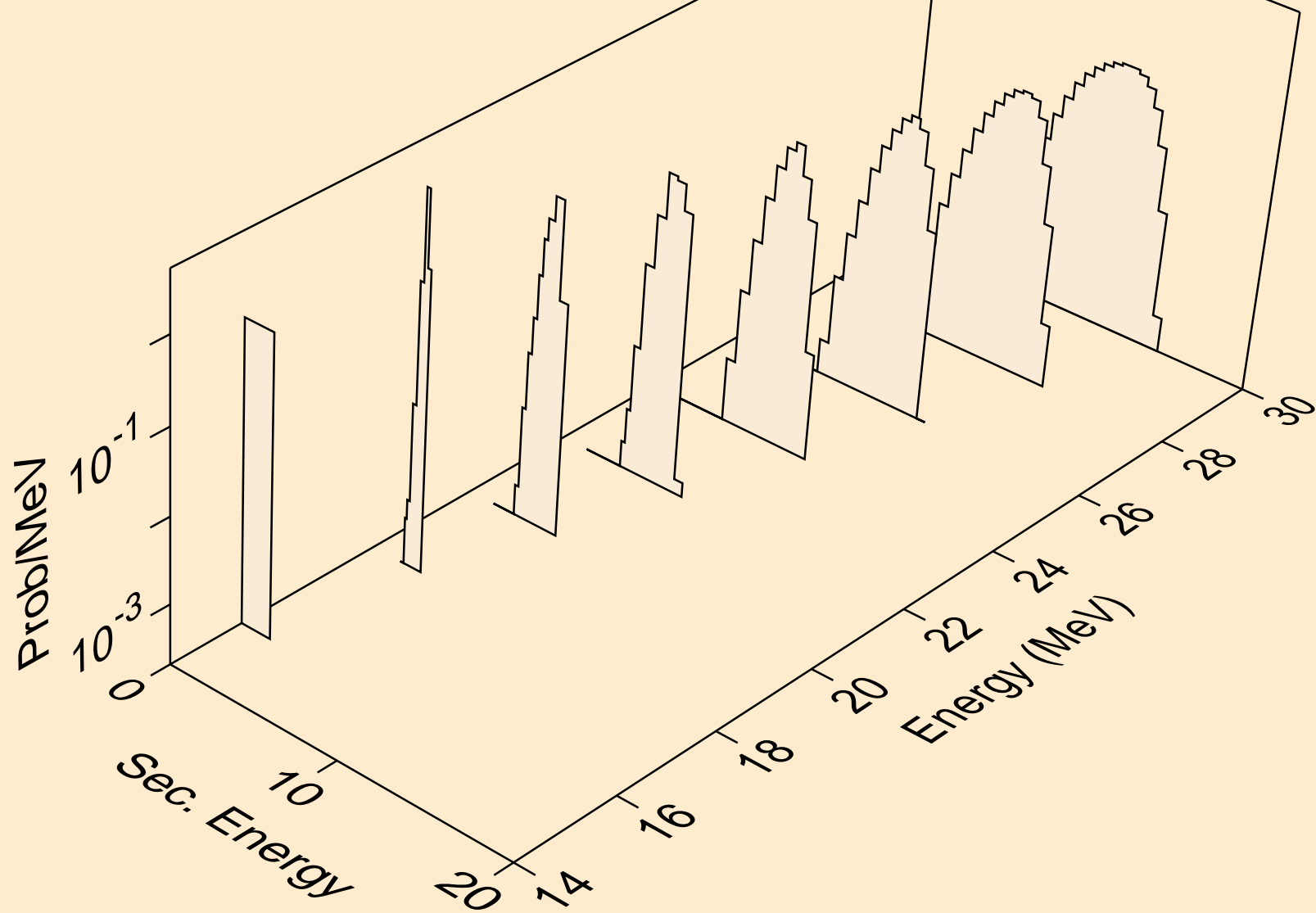
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protons from (n,pd)



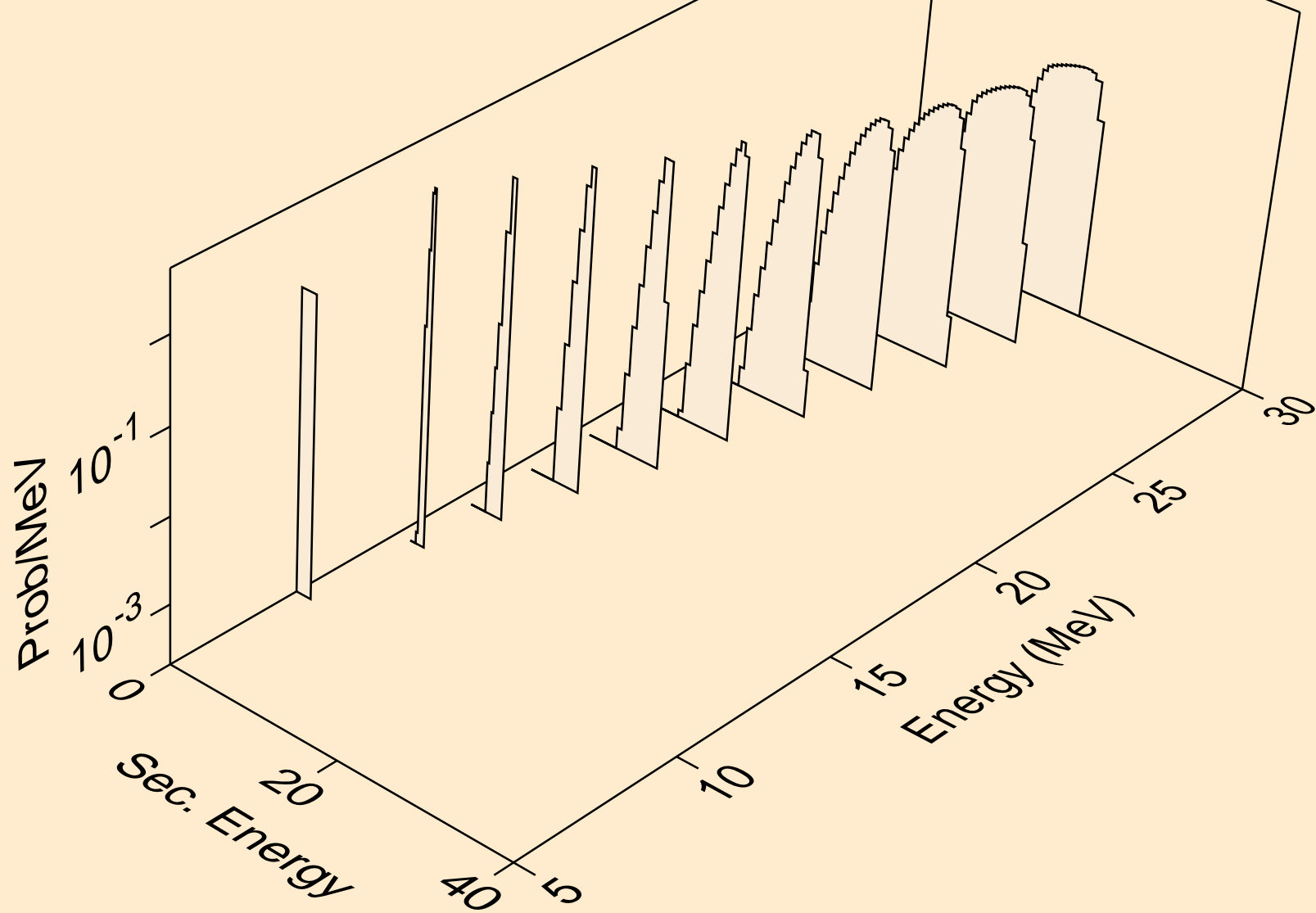
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)



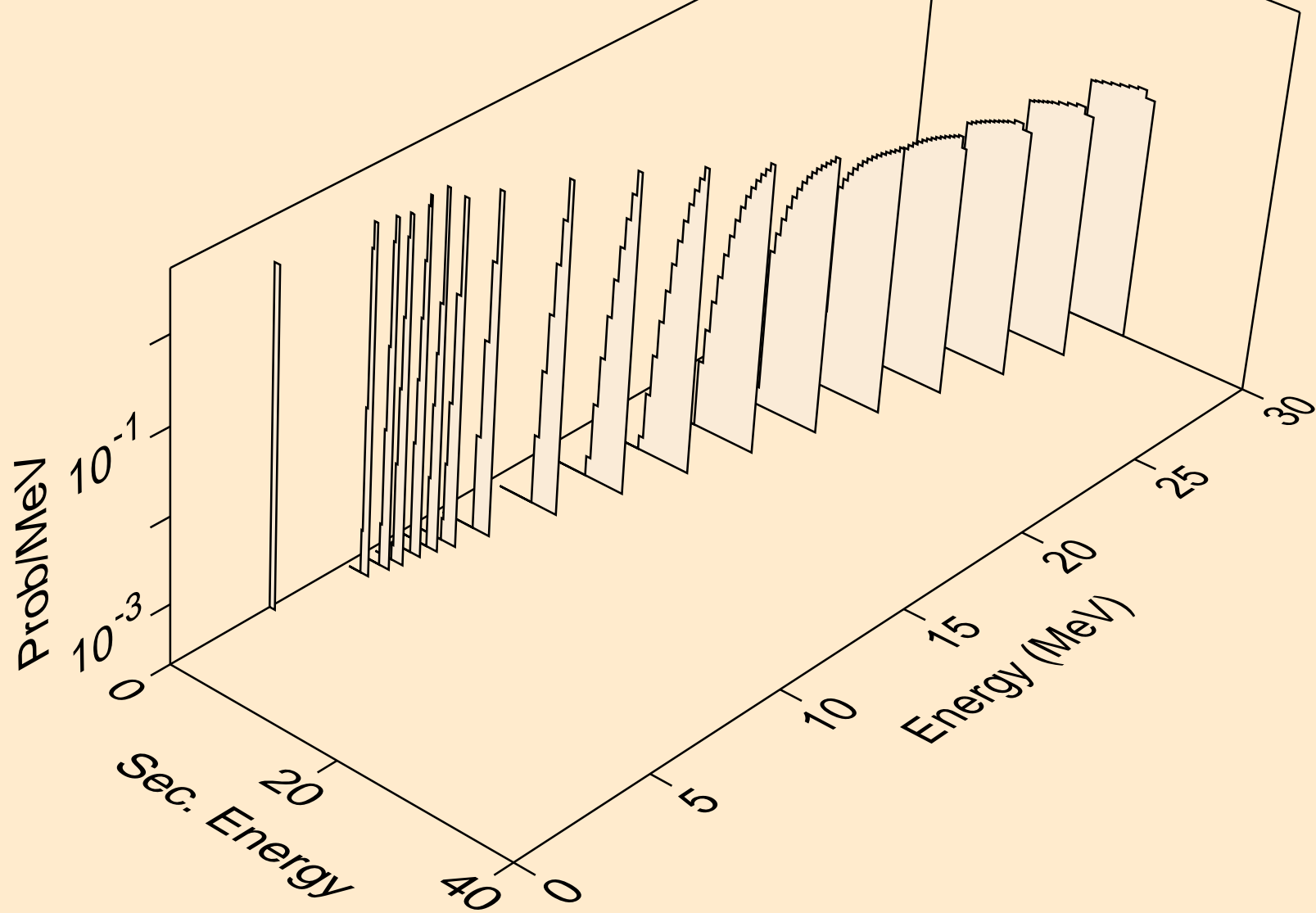
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deuterons from (n,2nd)



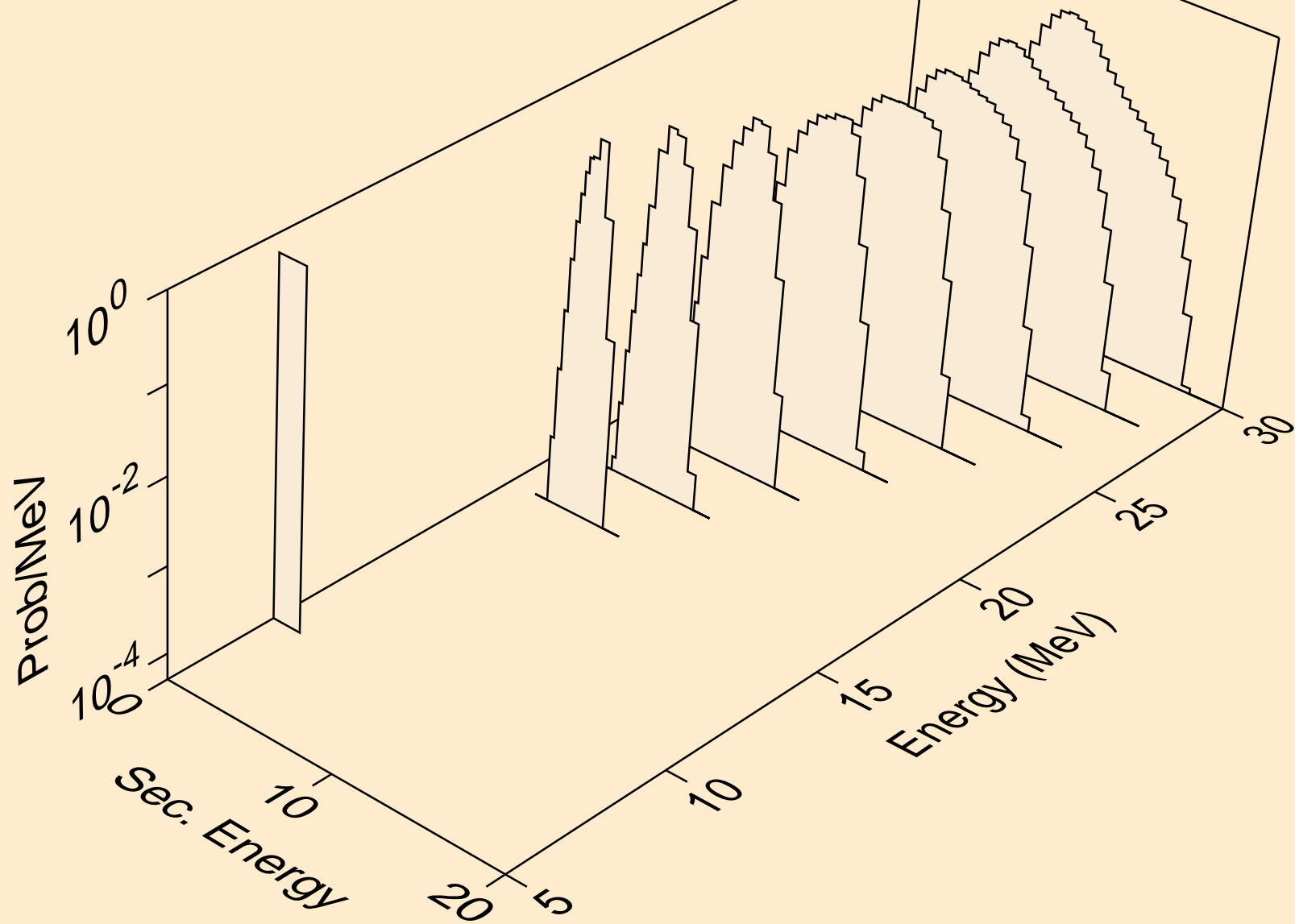
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d



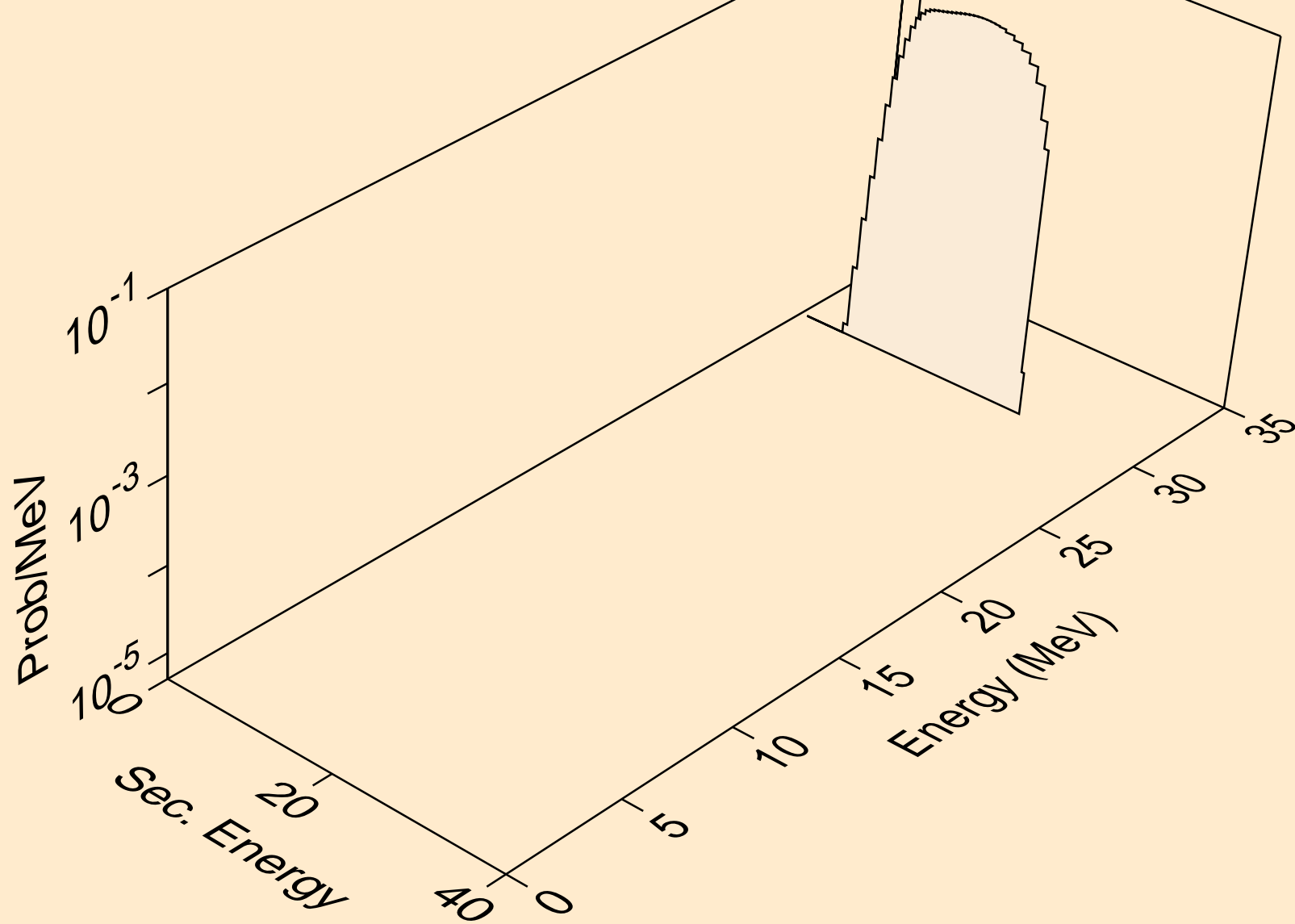
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,d)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,pd)

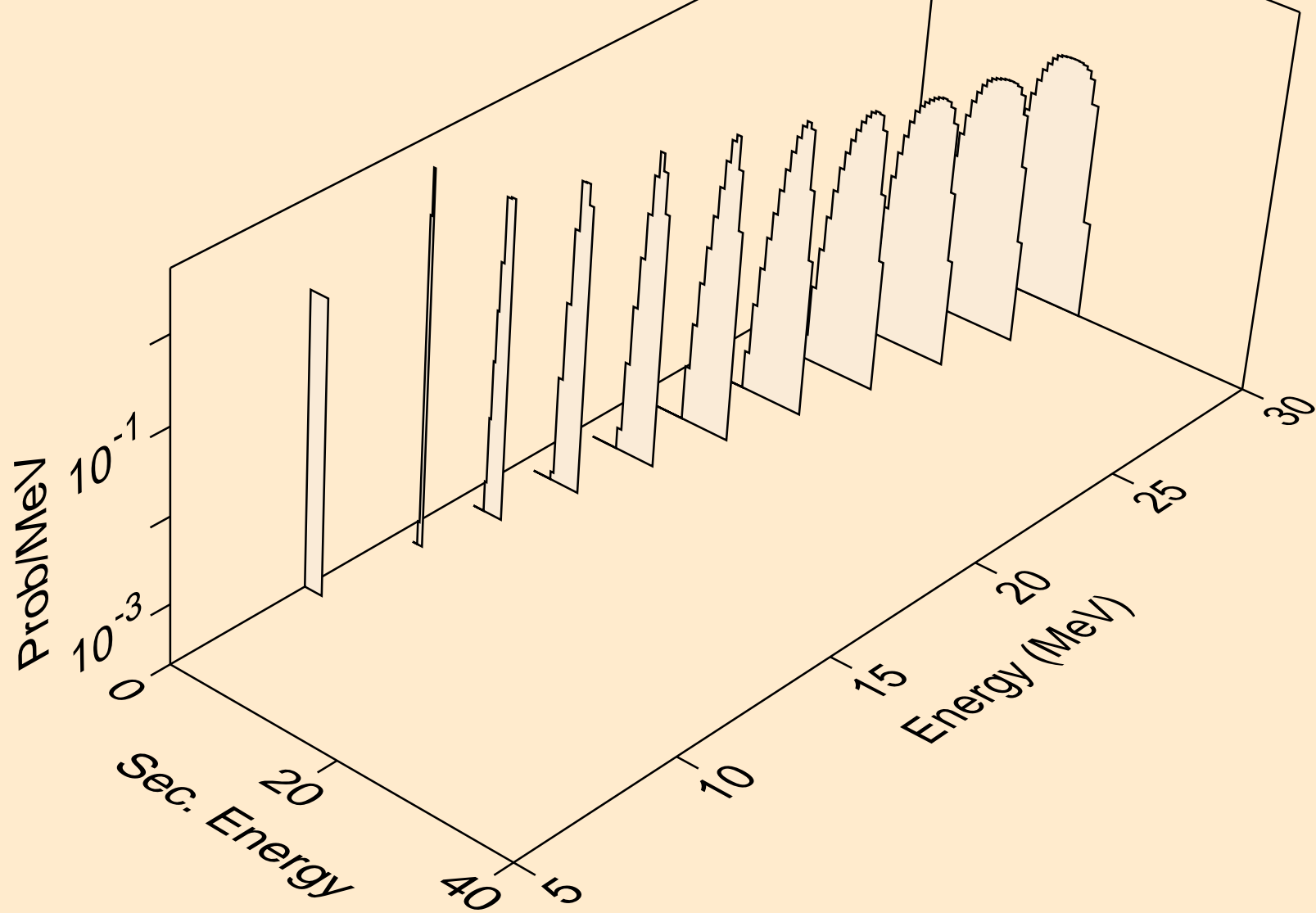


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)

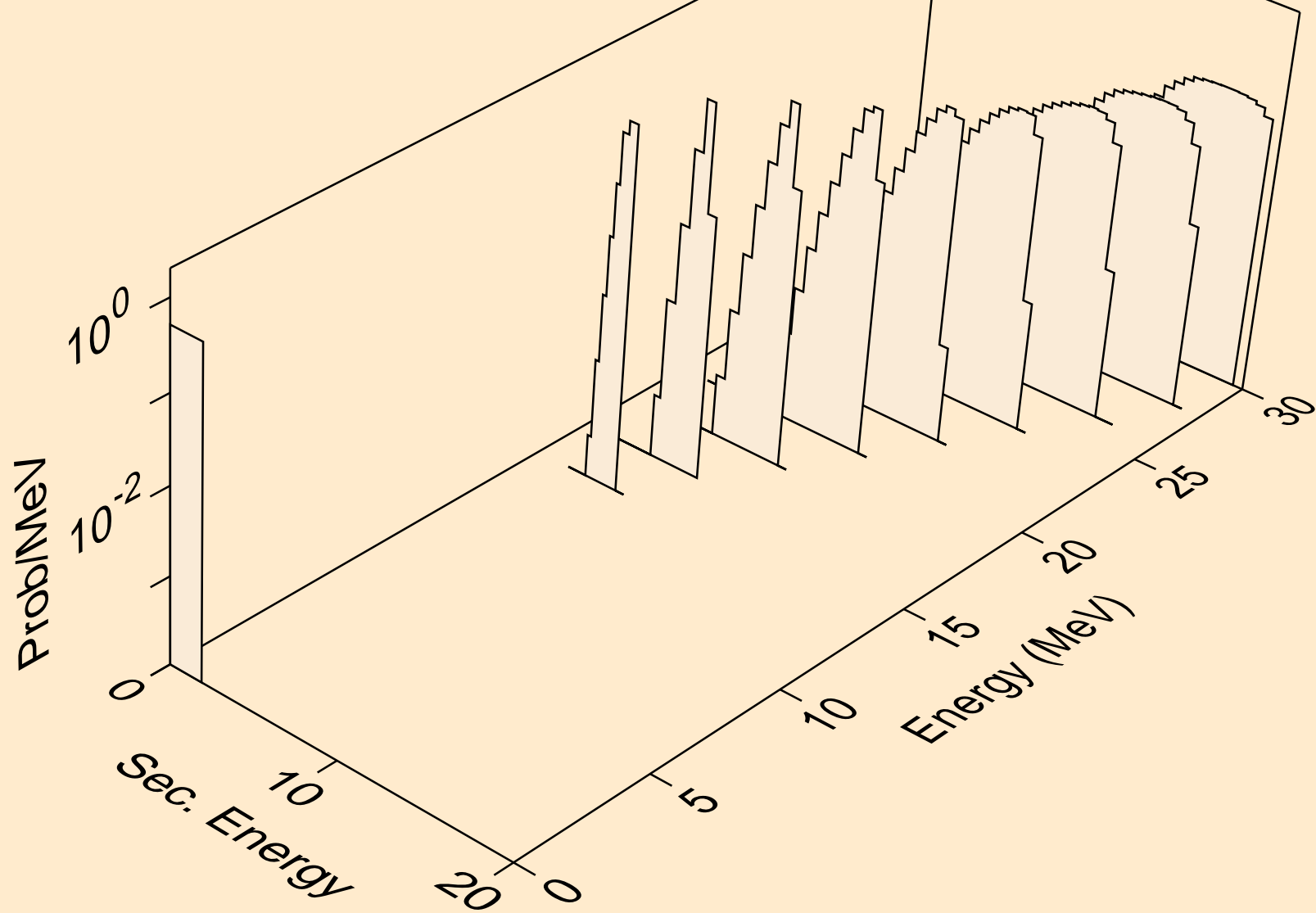




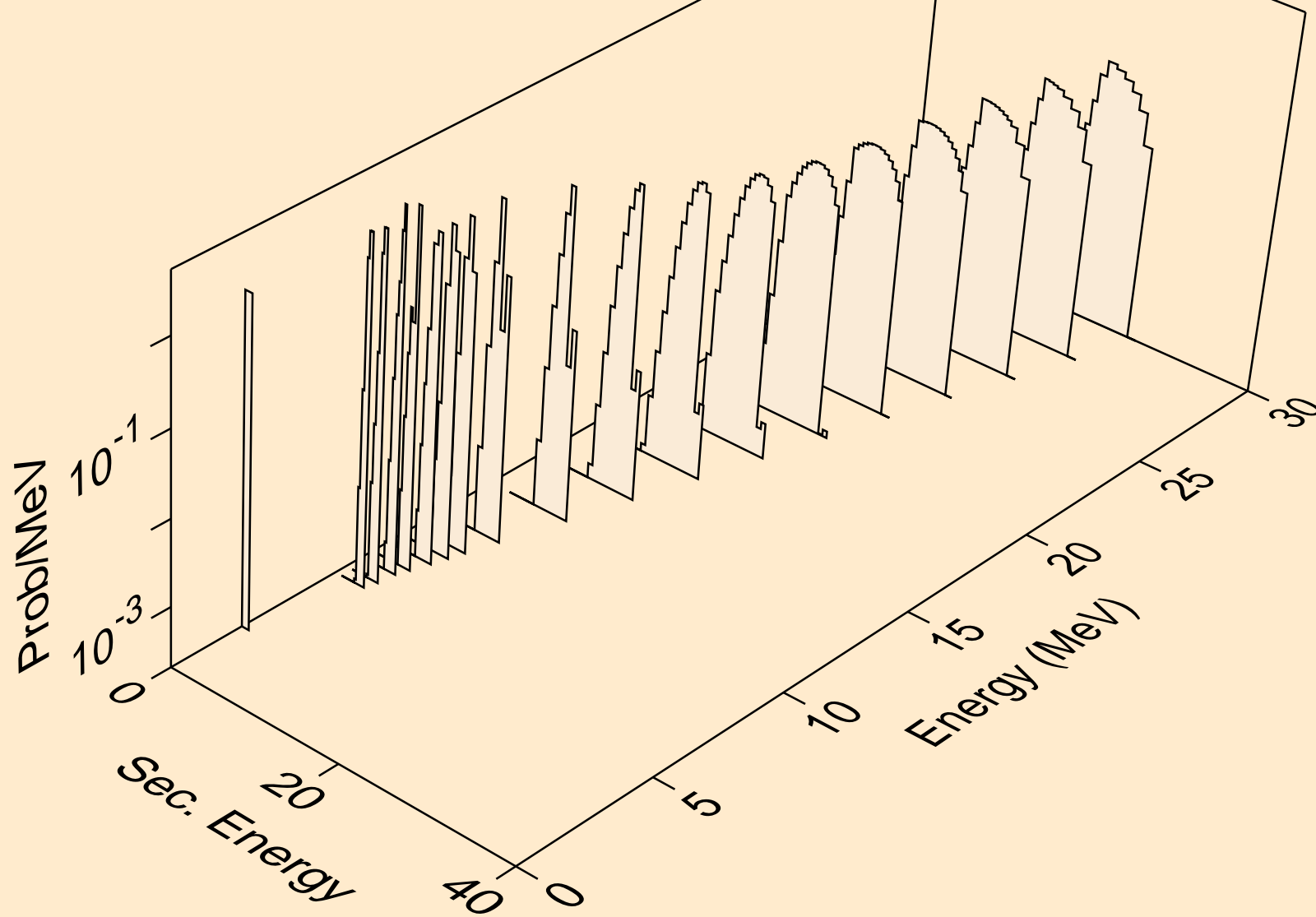
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



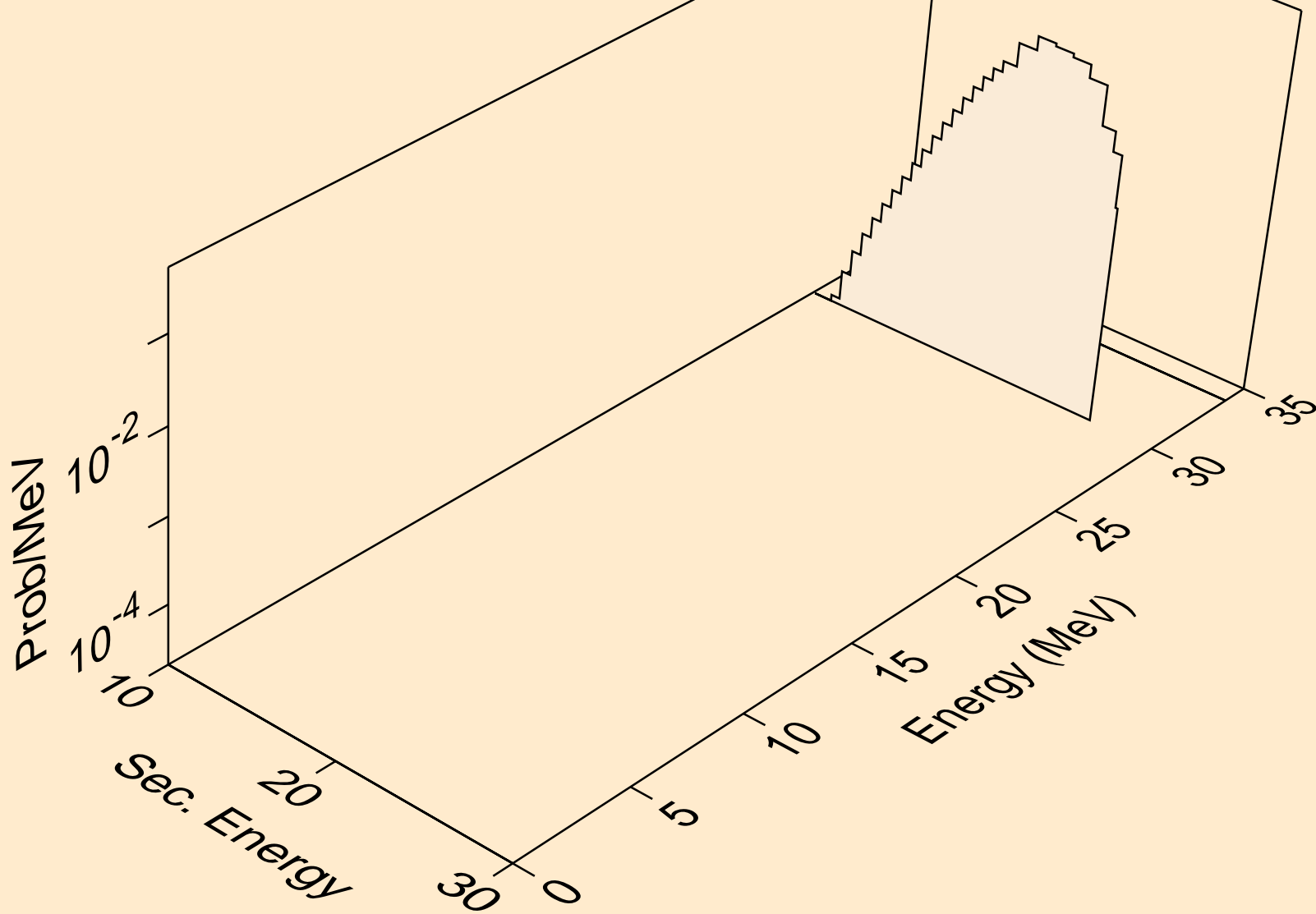
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tritons from (n,n\*)t2a



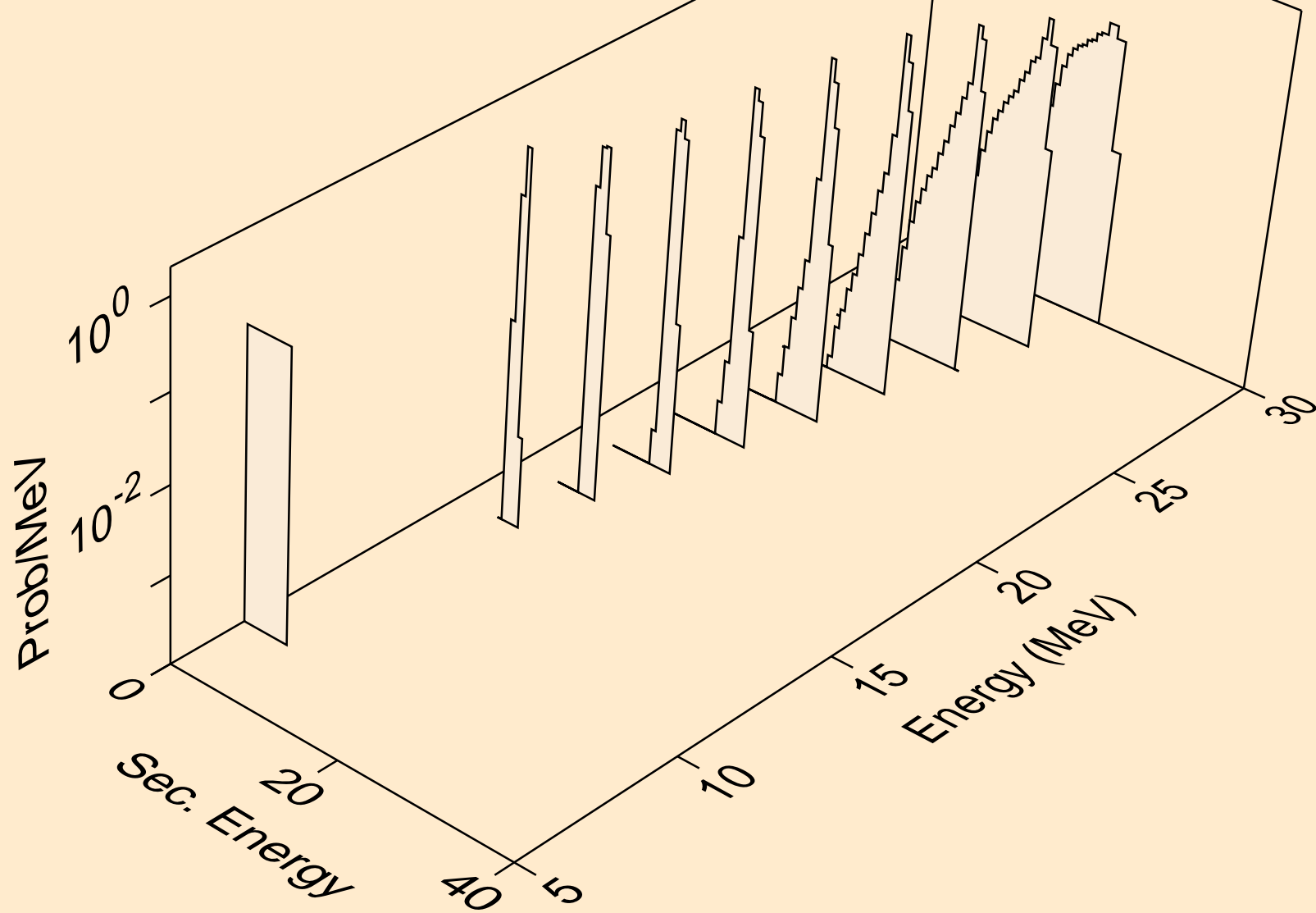
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



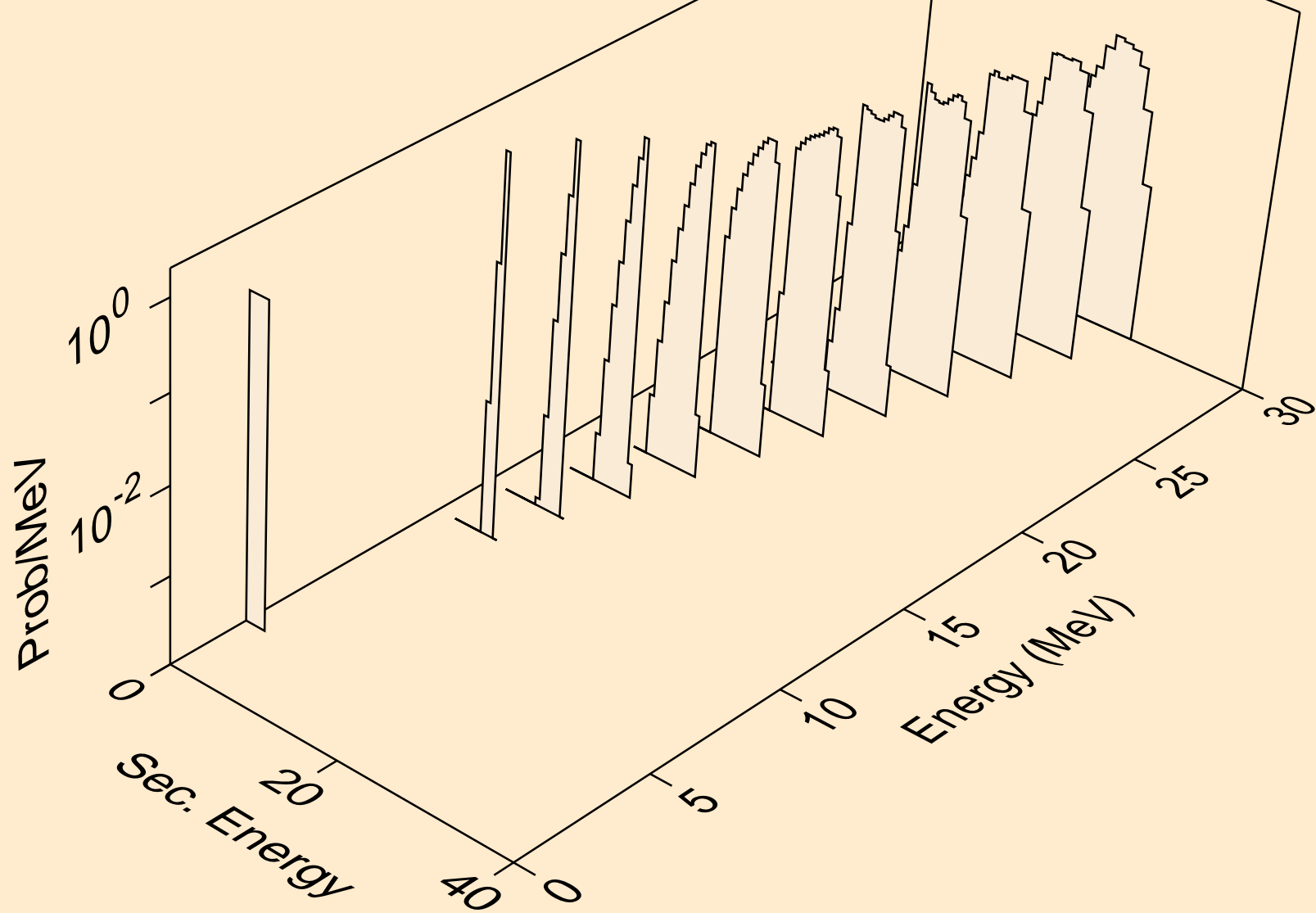
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



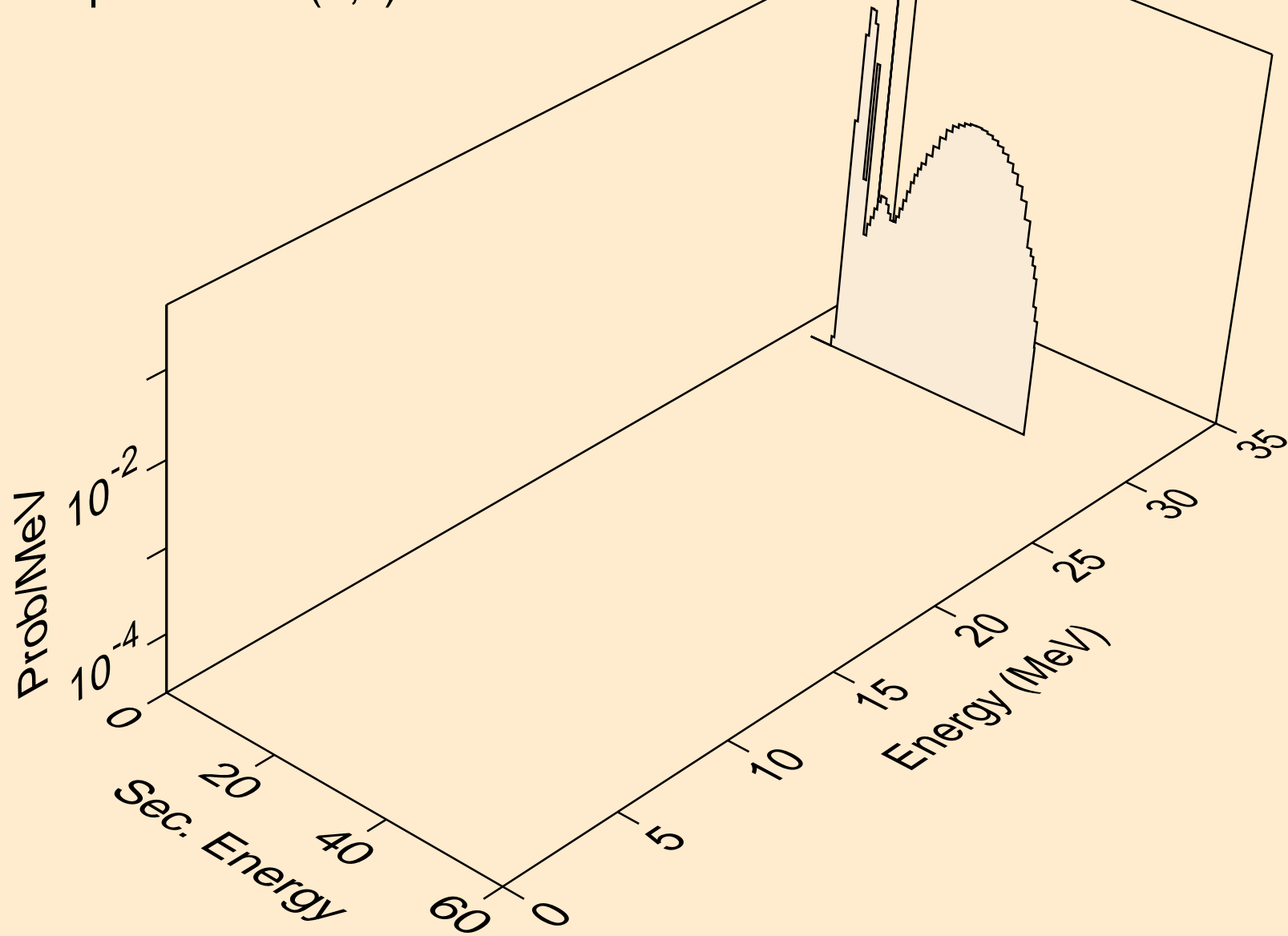
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he3s from (n,n\*)he3



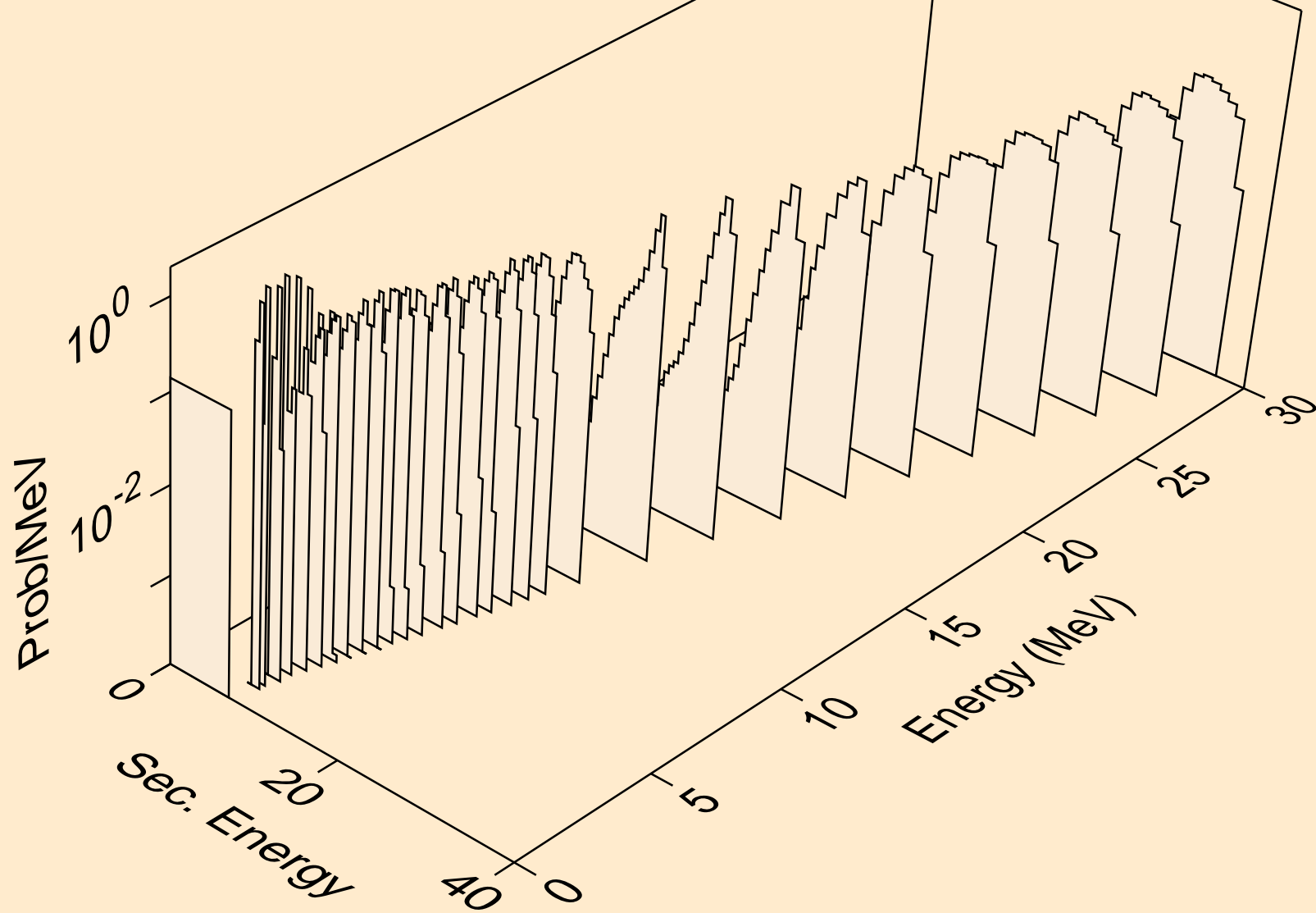
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he3s from (n,he3)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)

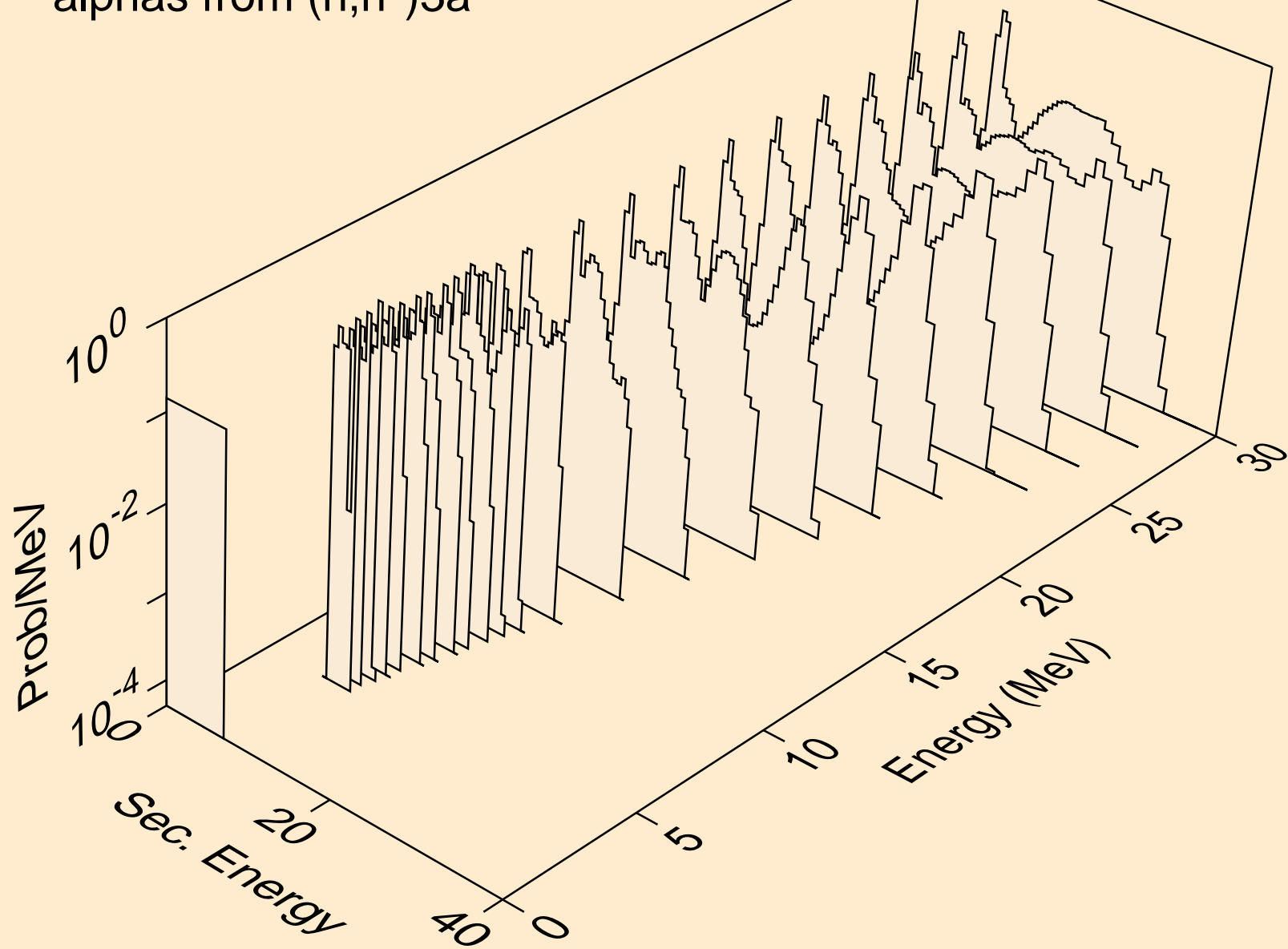


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a

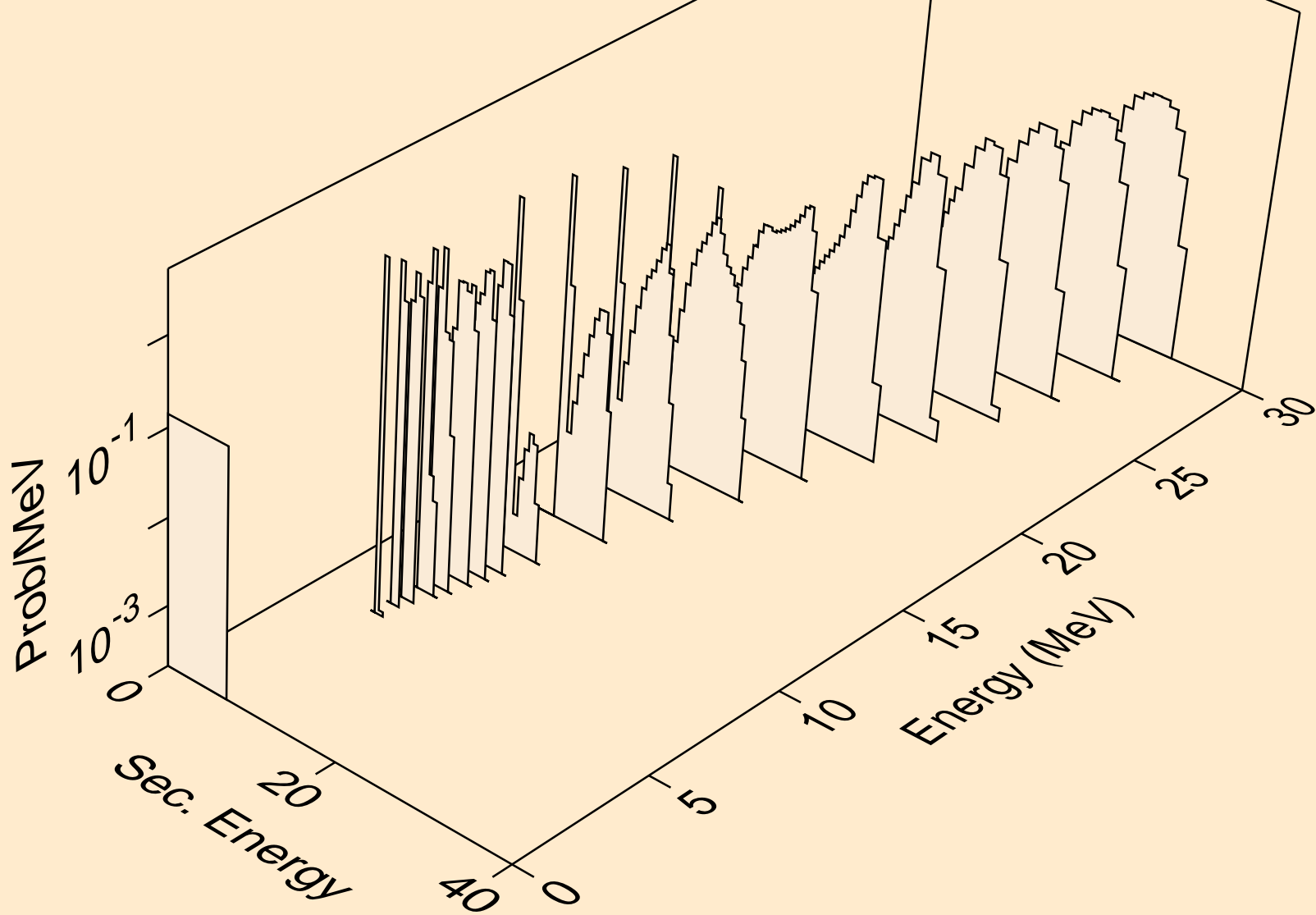




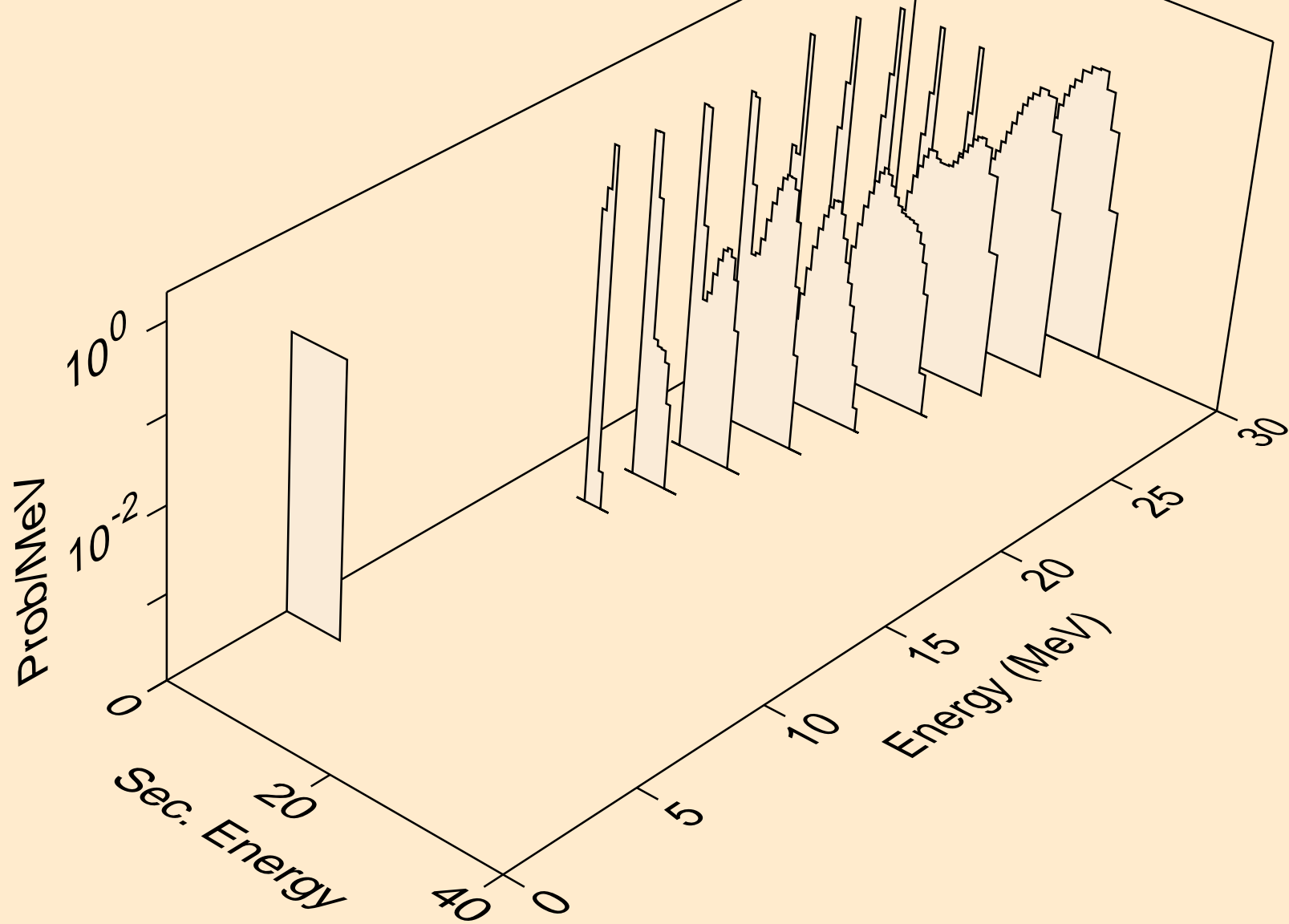
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alphas from (n,n\*)3a



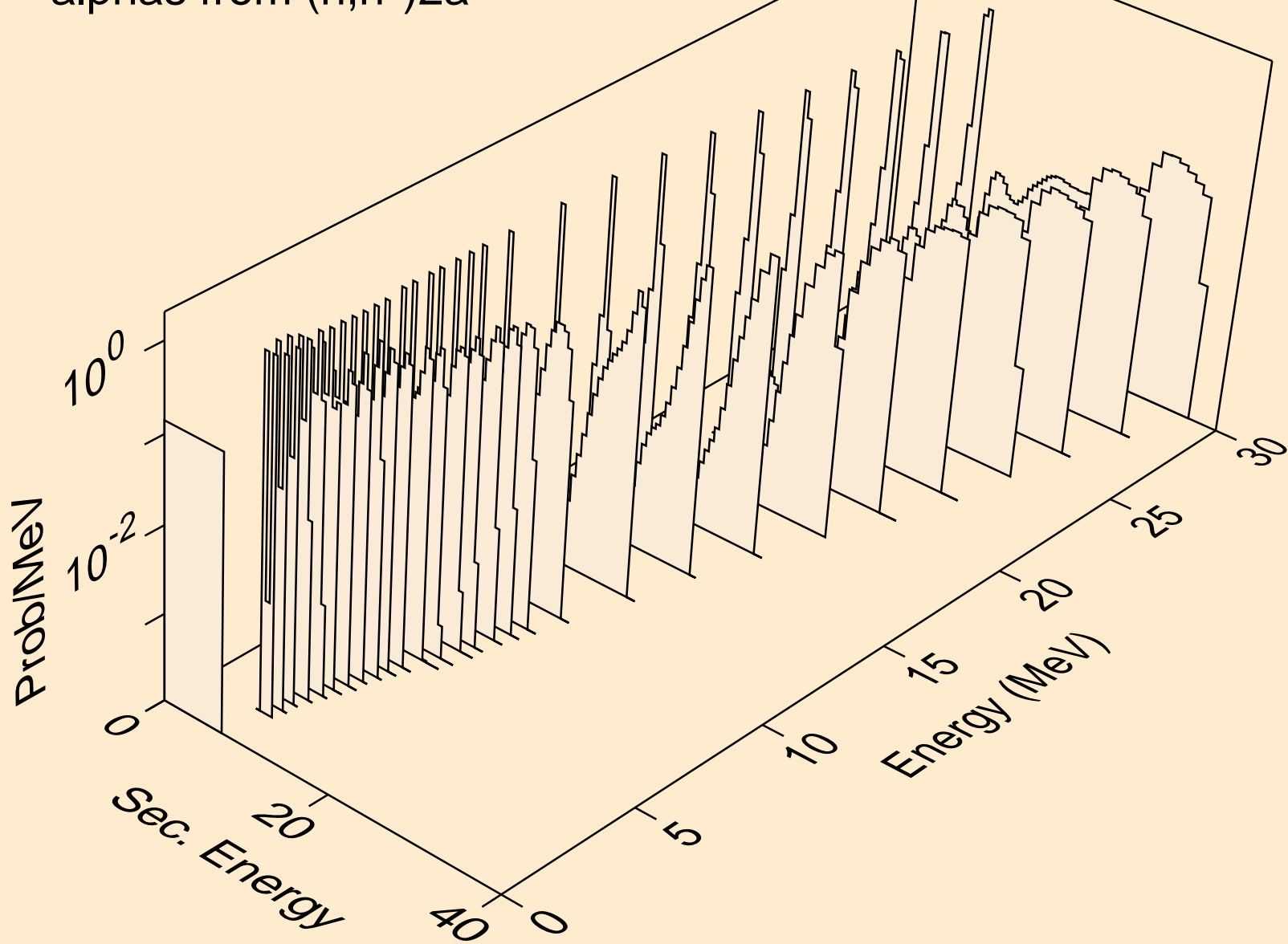
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alphas from (n,2n)a



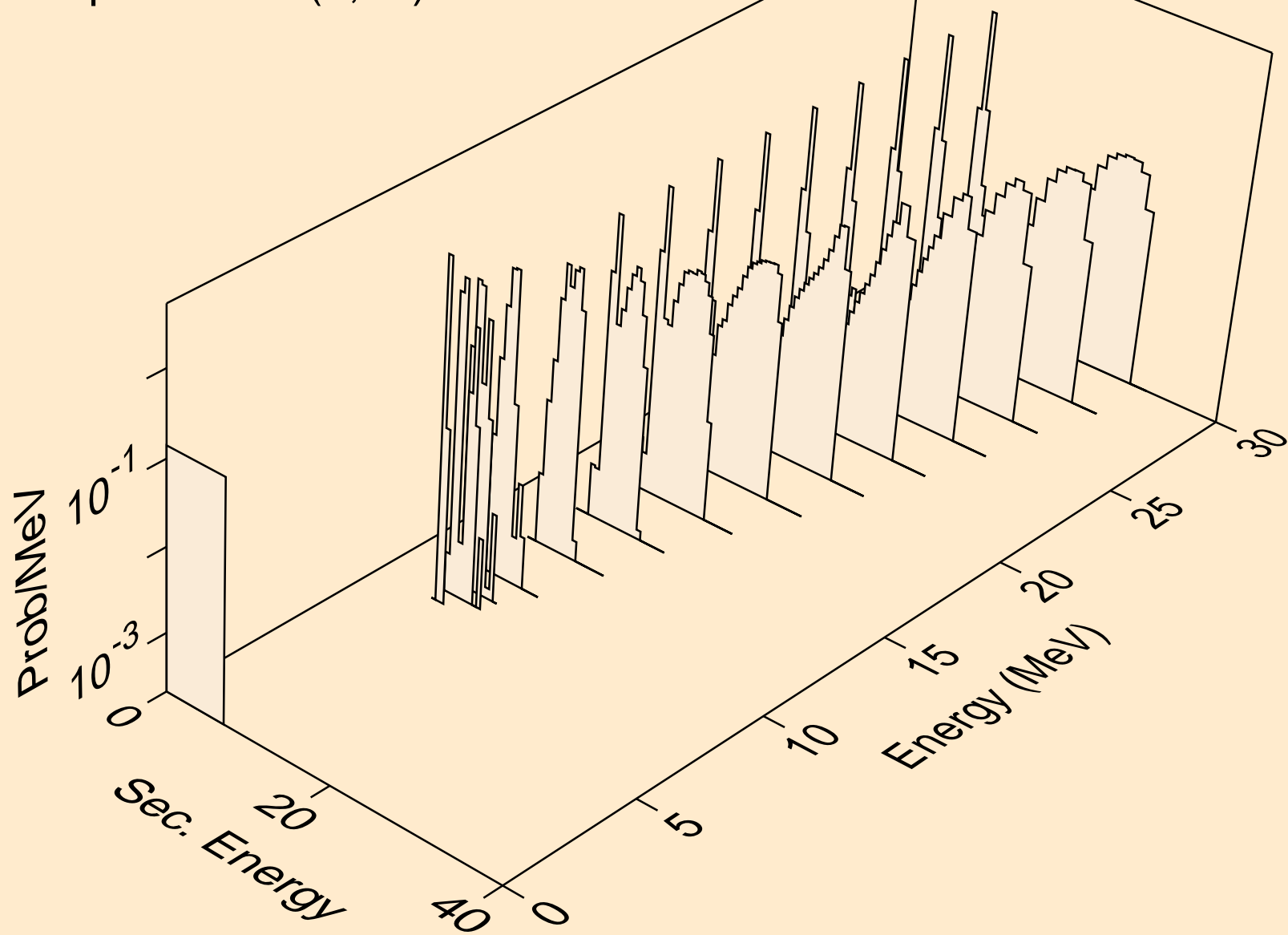
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alphas from (n,3n)a



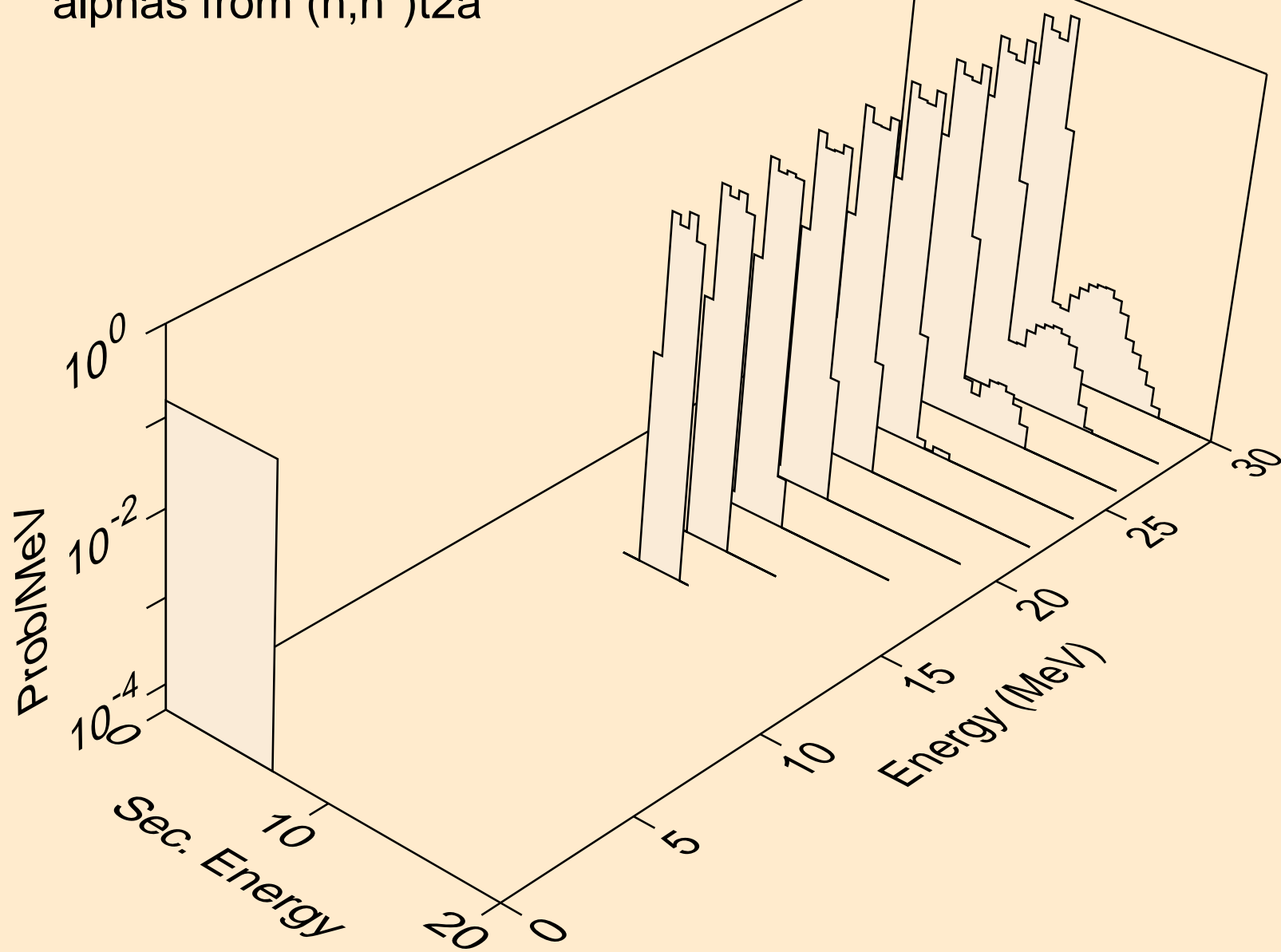
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alphas from (n,n\*)2a



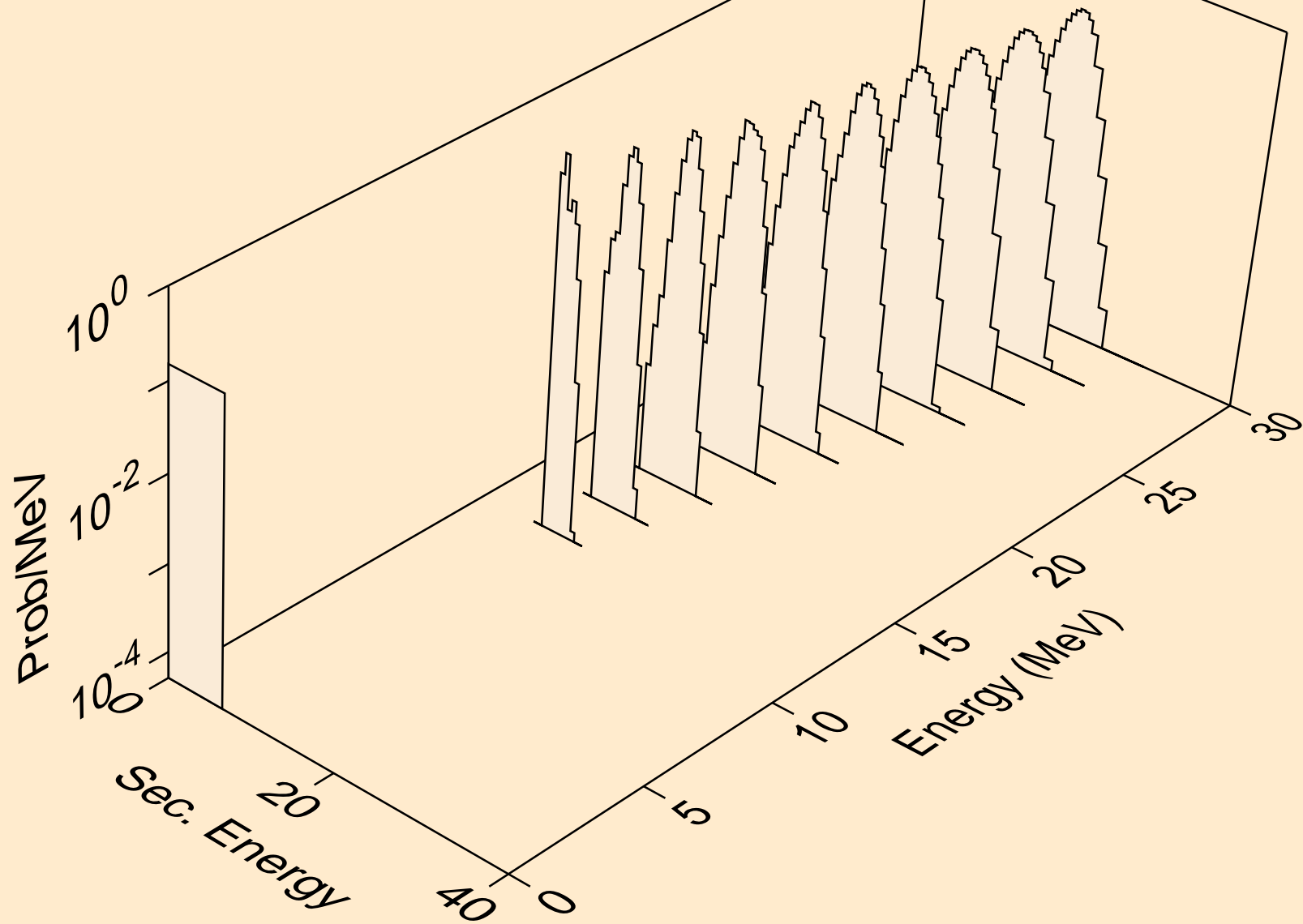
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)2a



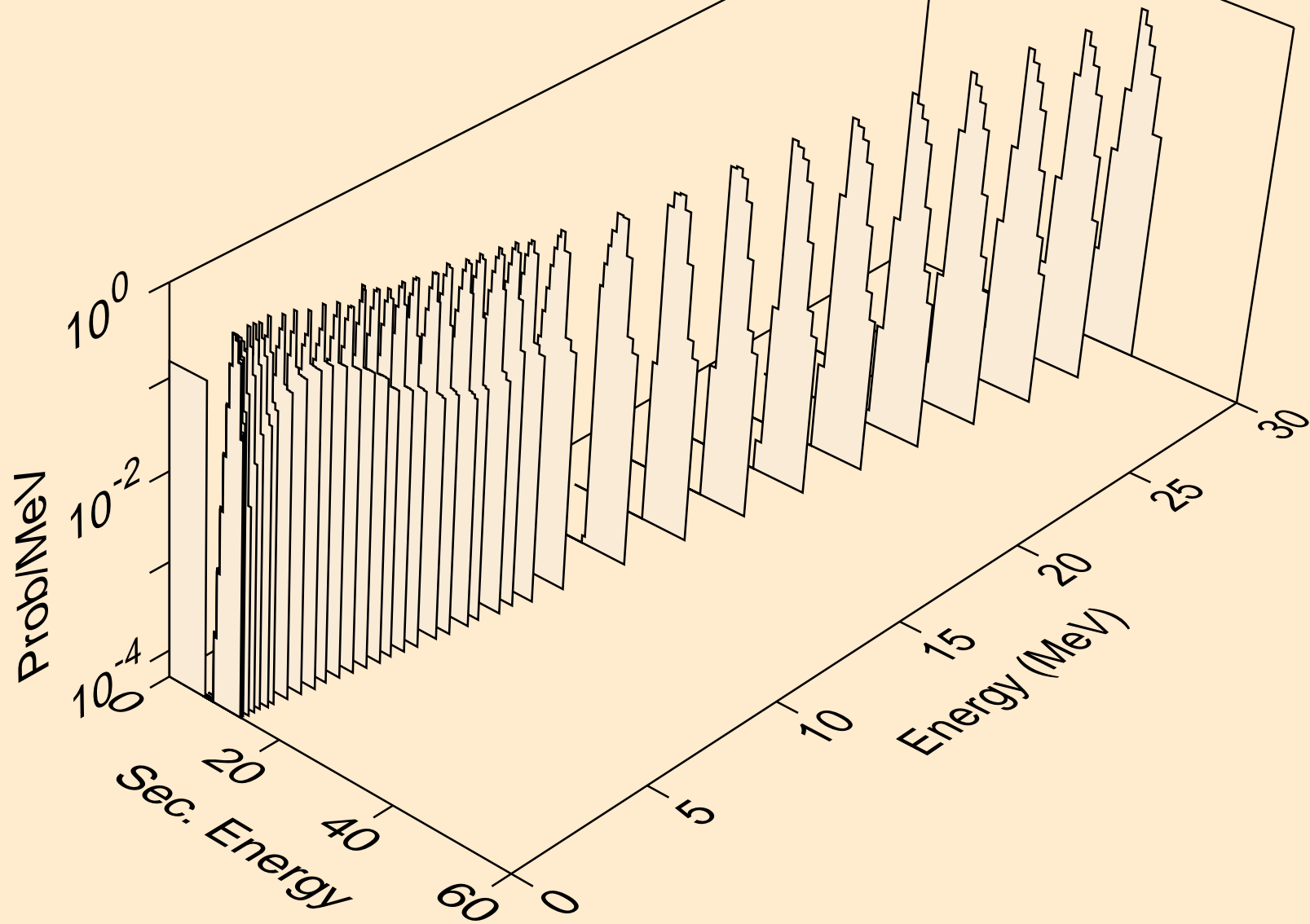
RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)t2a



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)

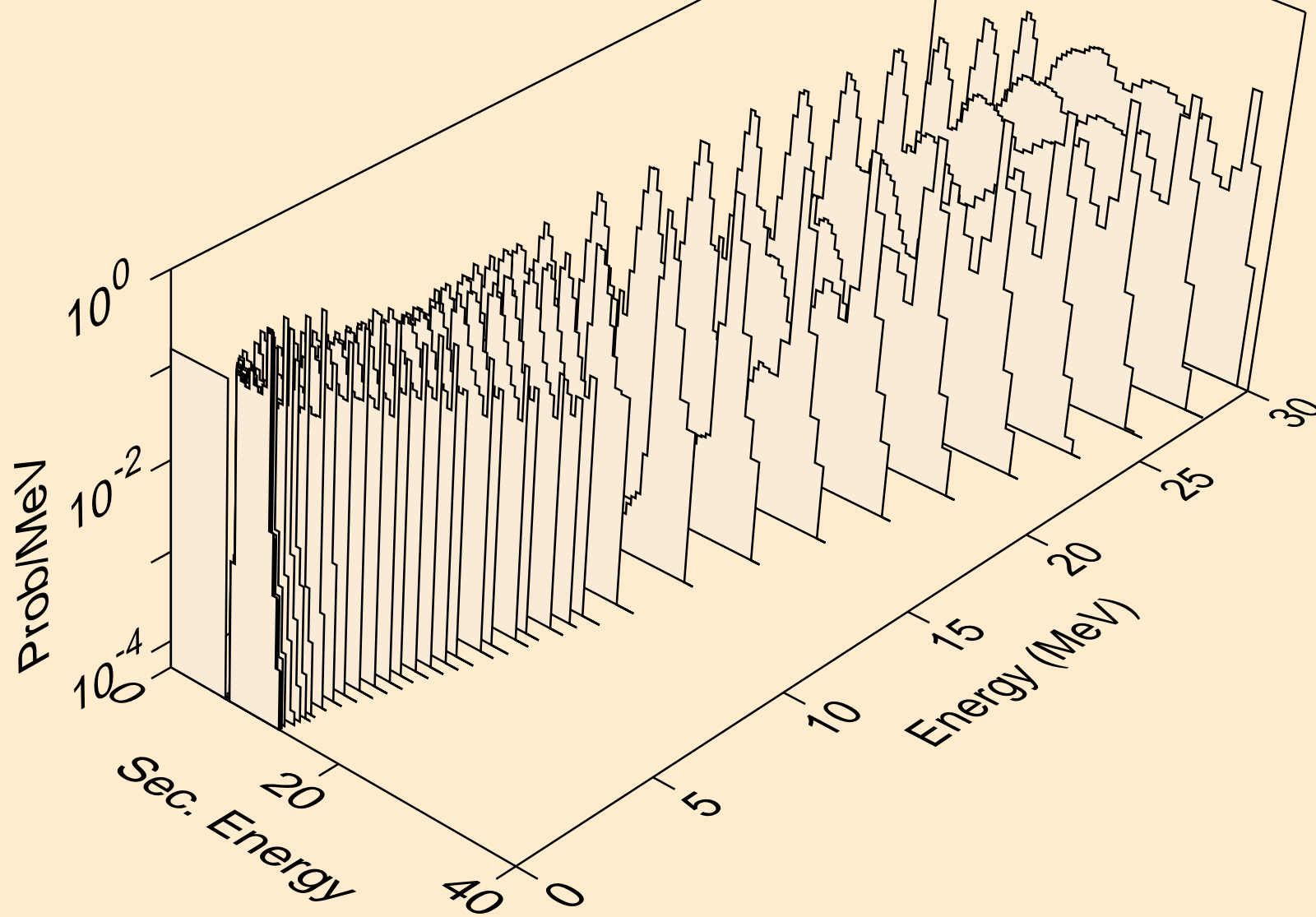


RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)





RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



RA221 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)

