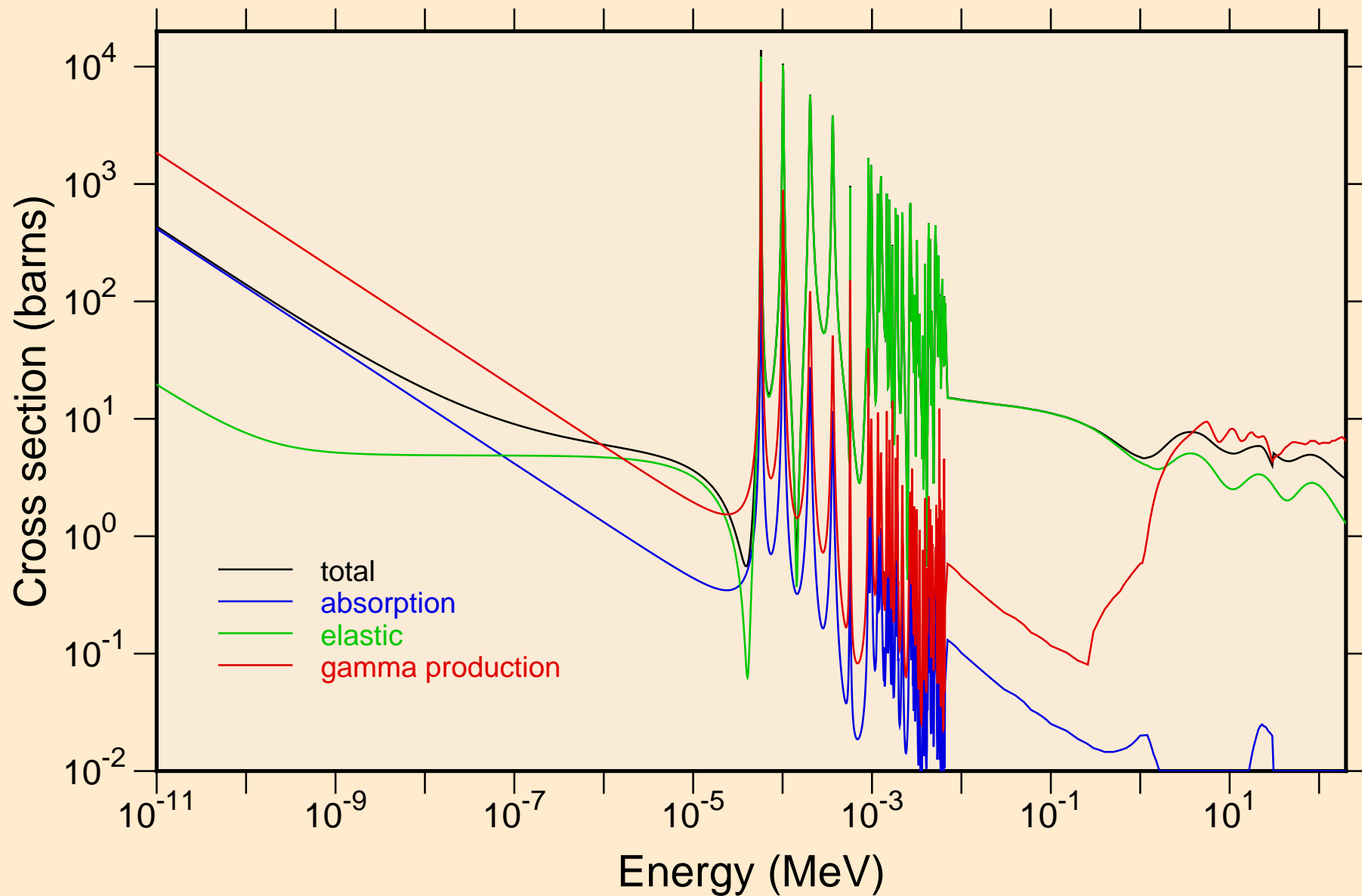
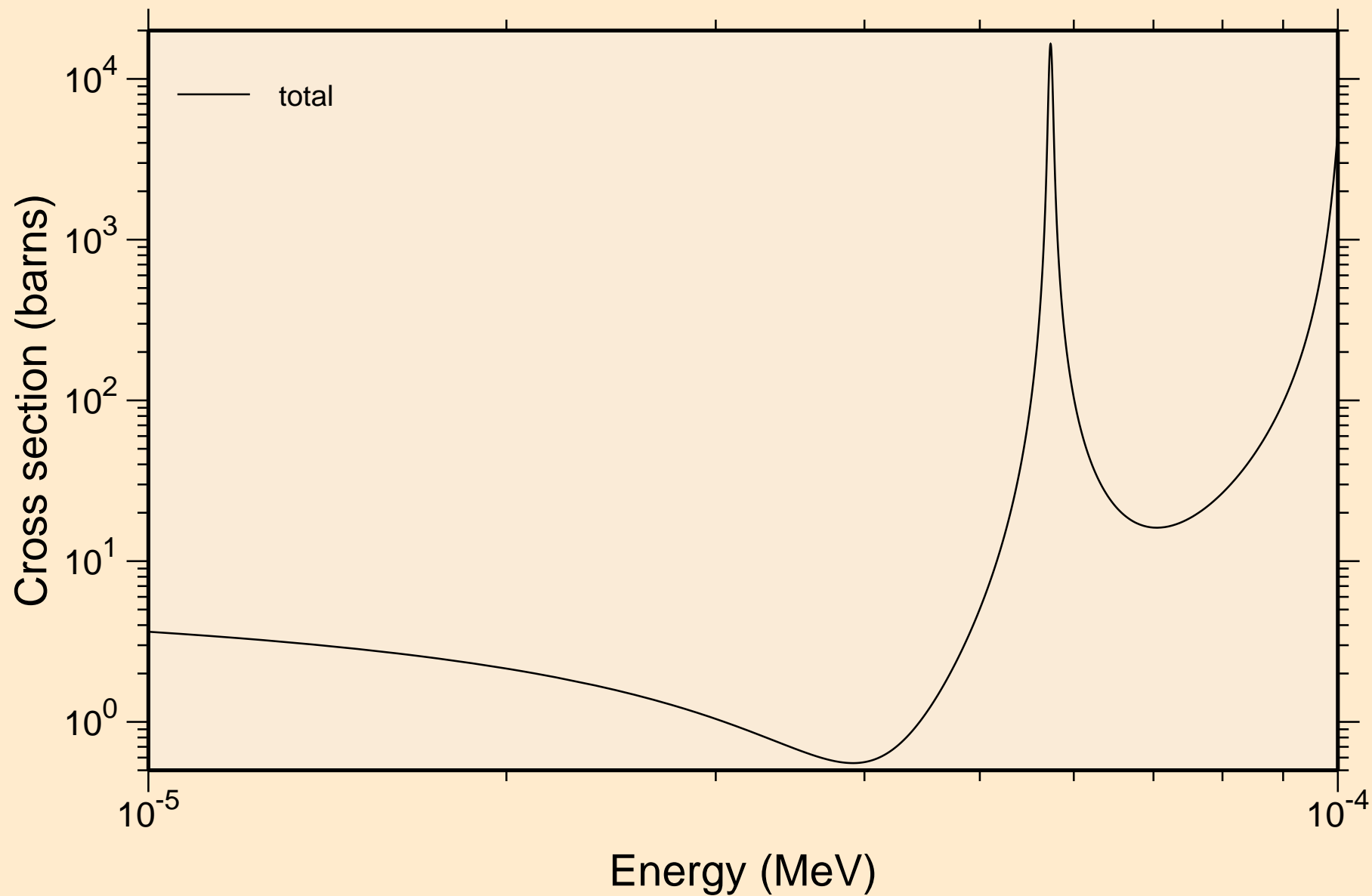


# BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

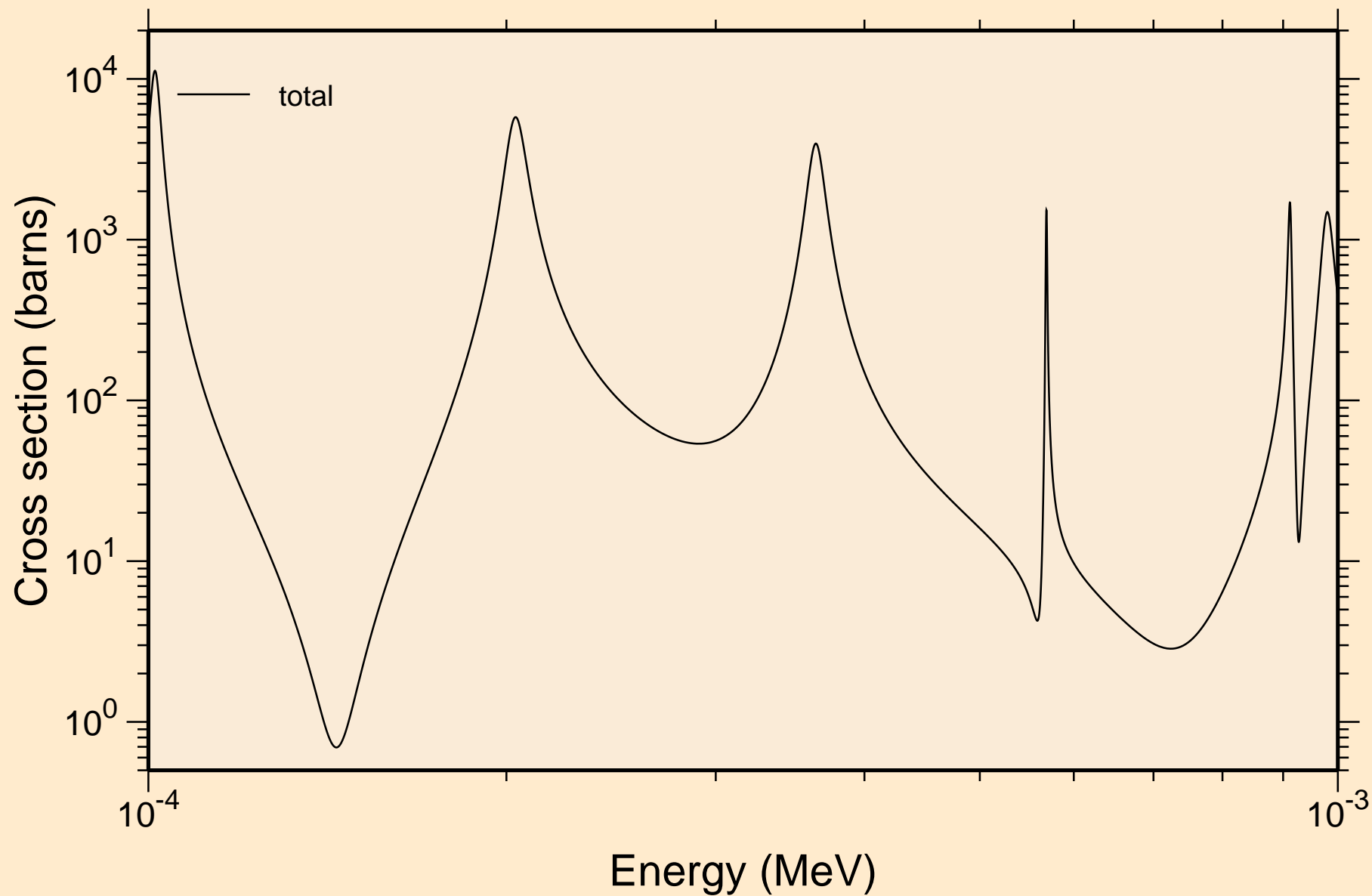
## Principal cross sections



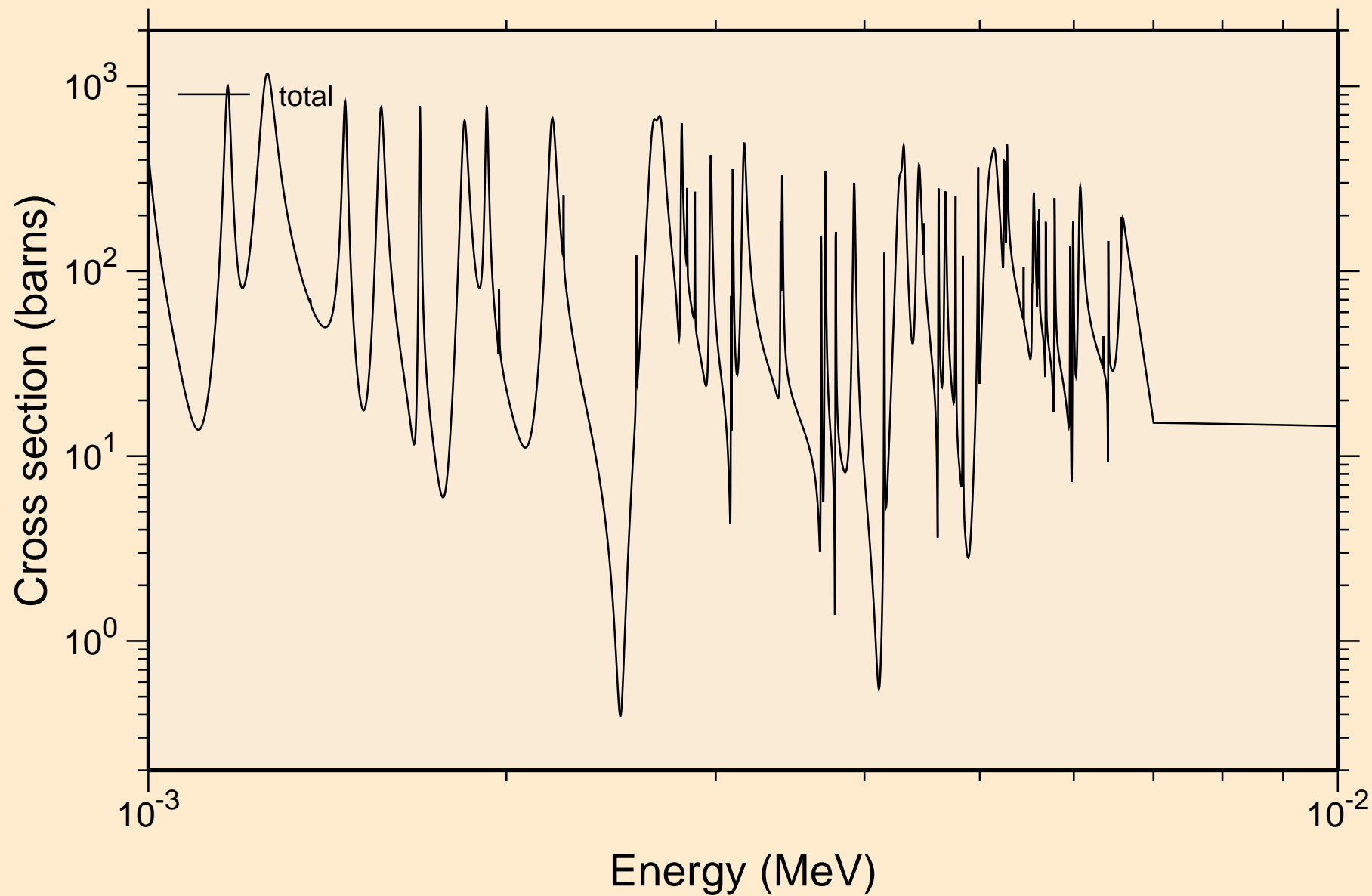
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



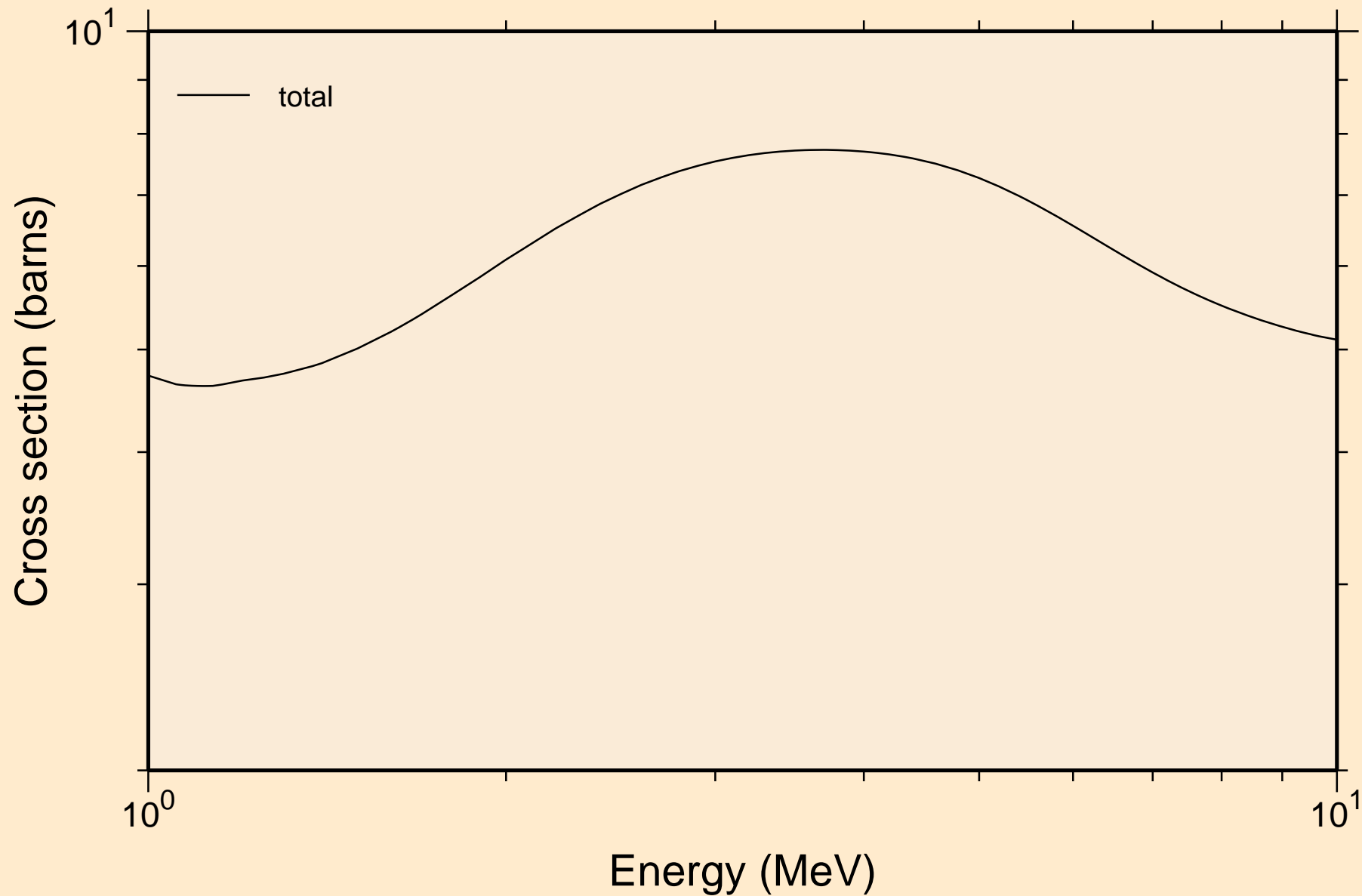
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



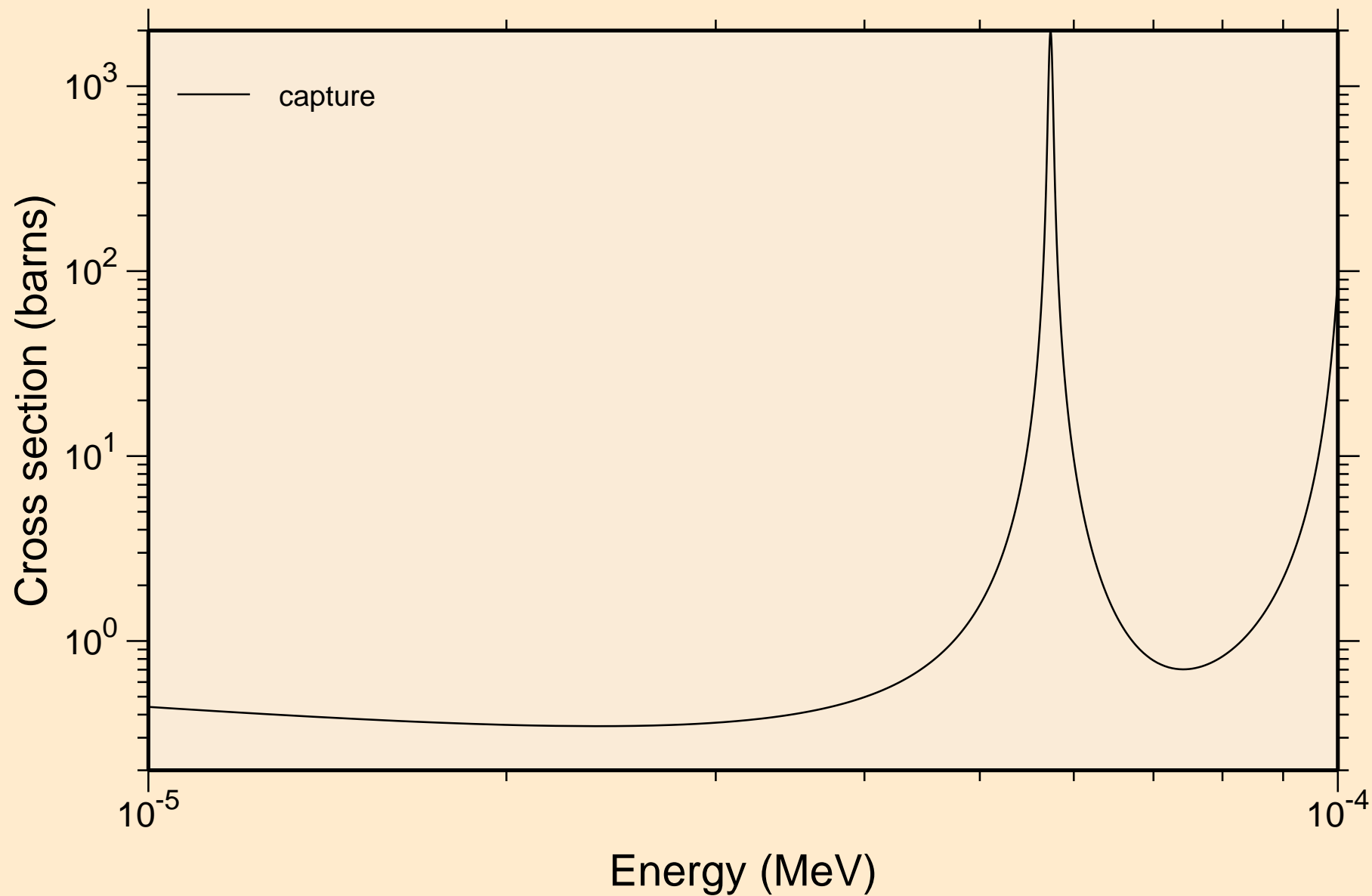
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



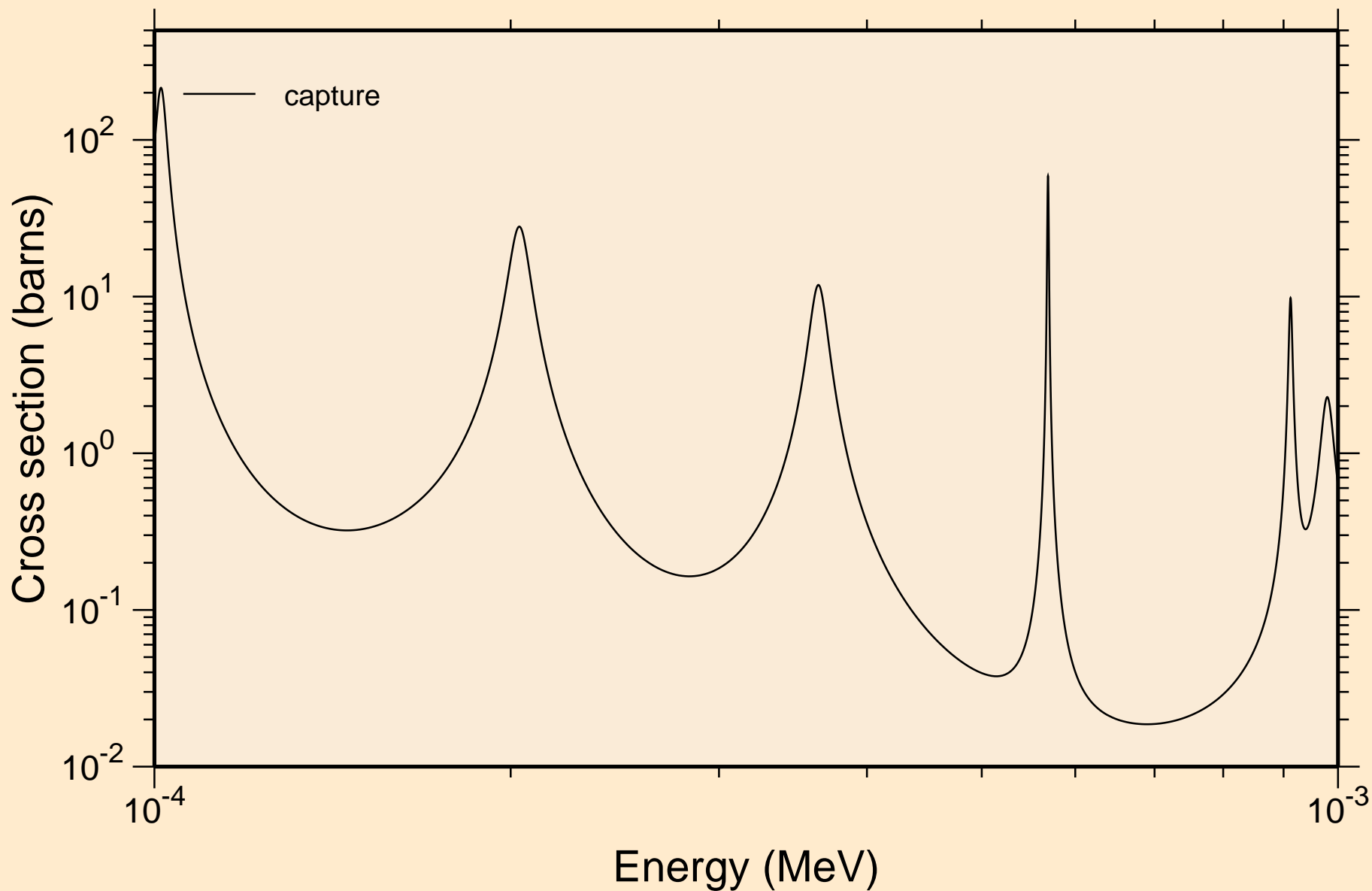
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



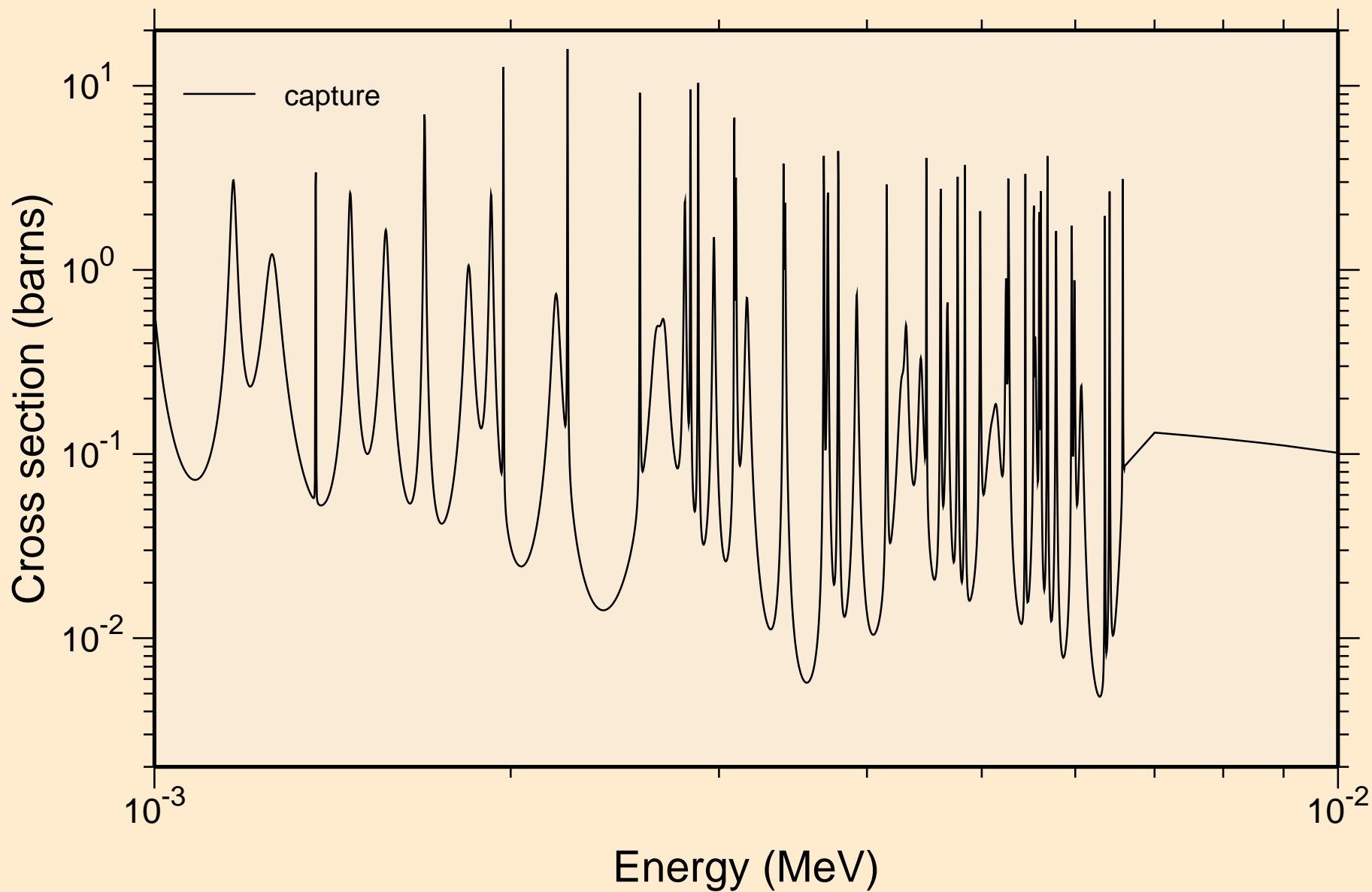
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

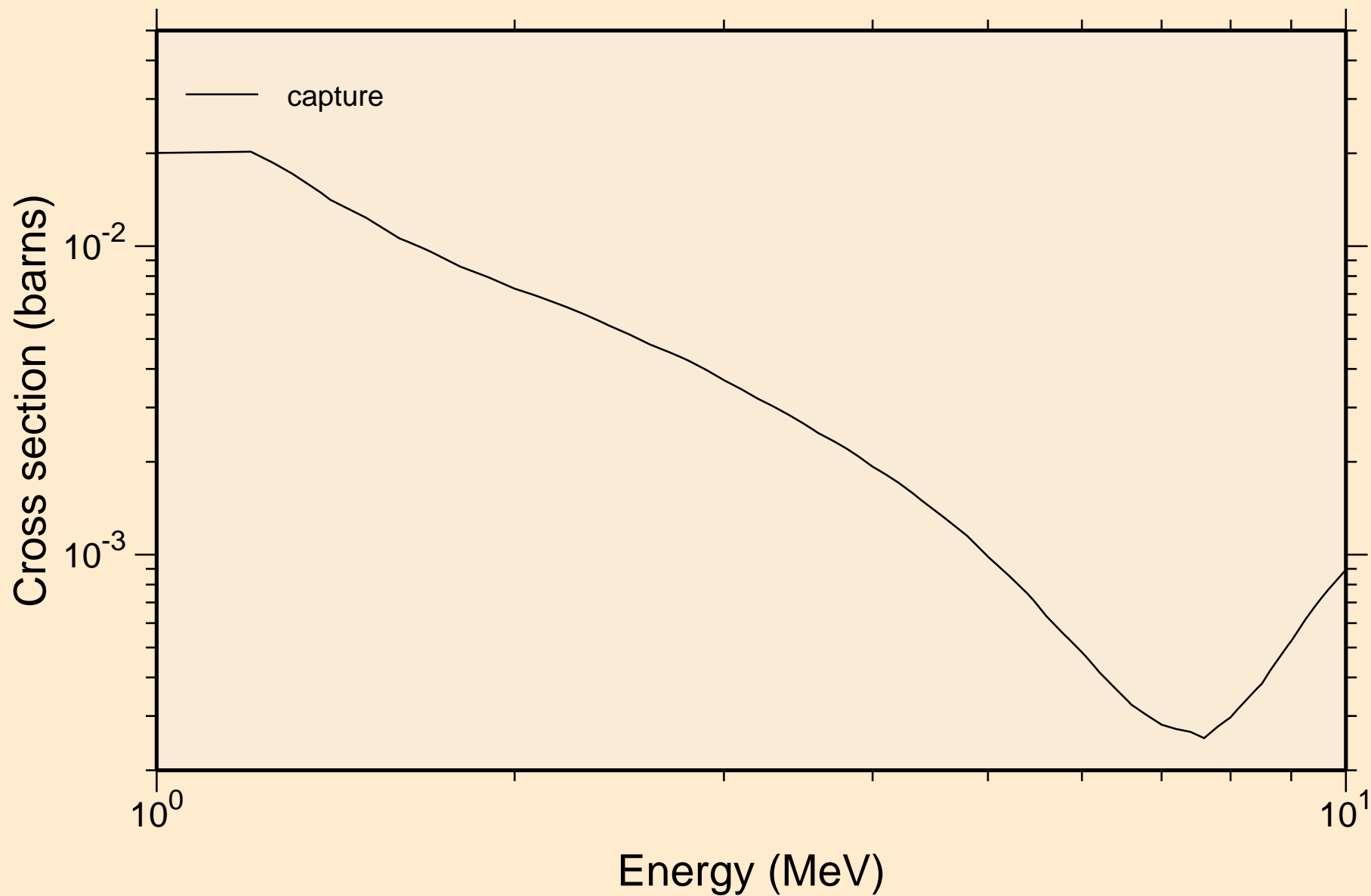


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

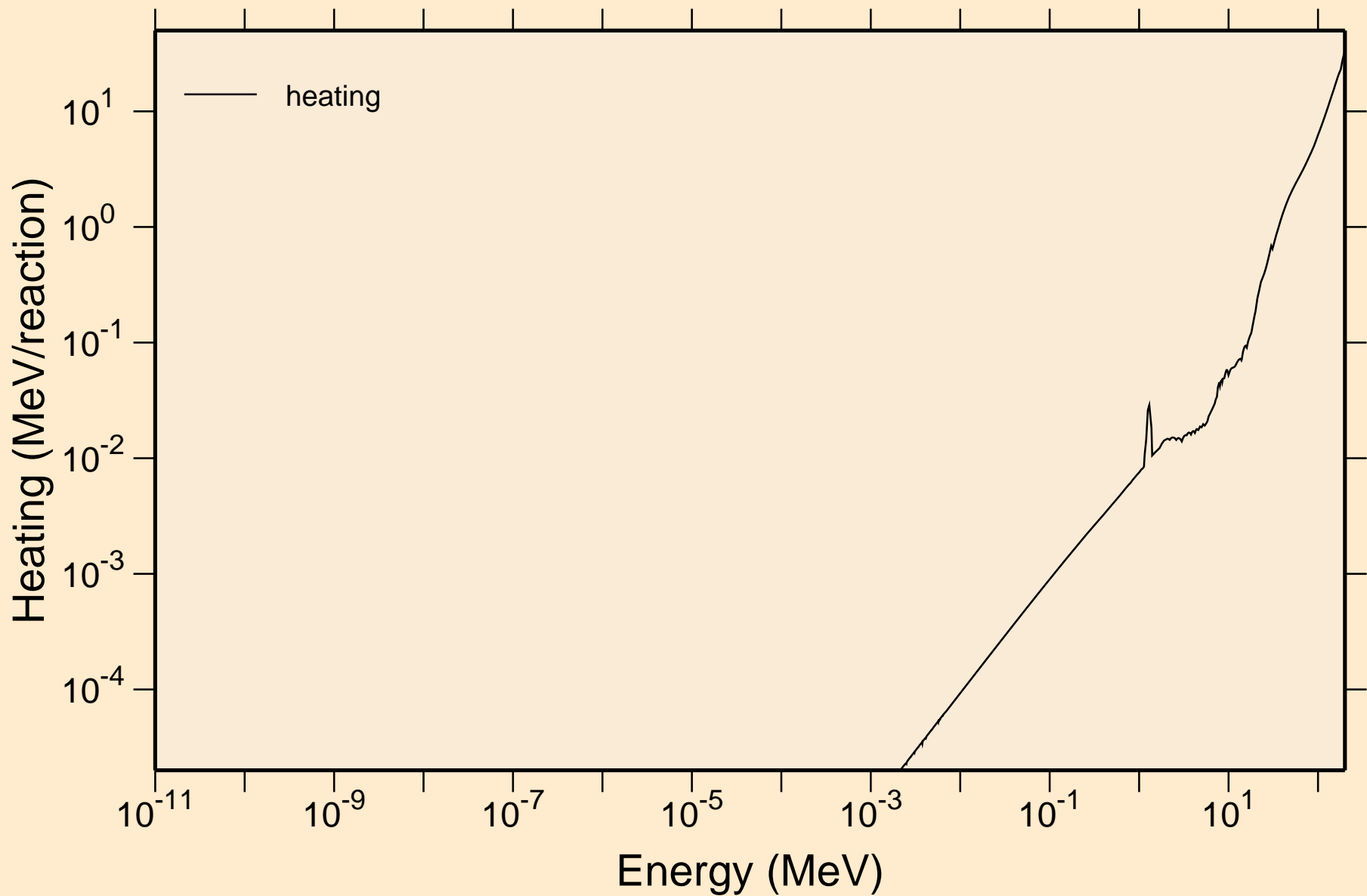




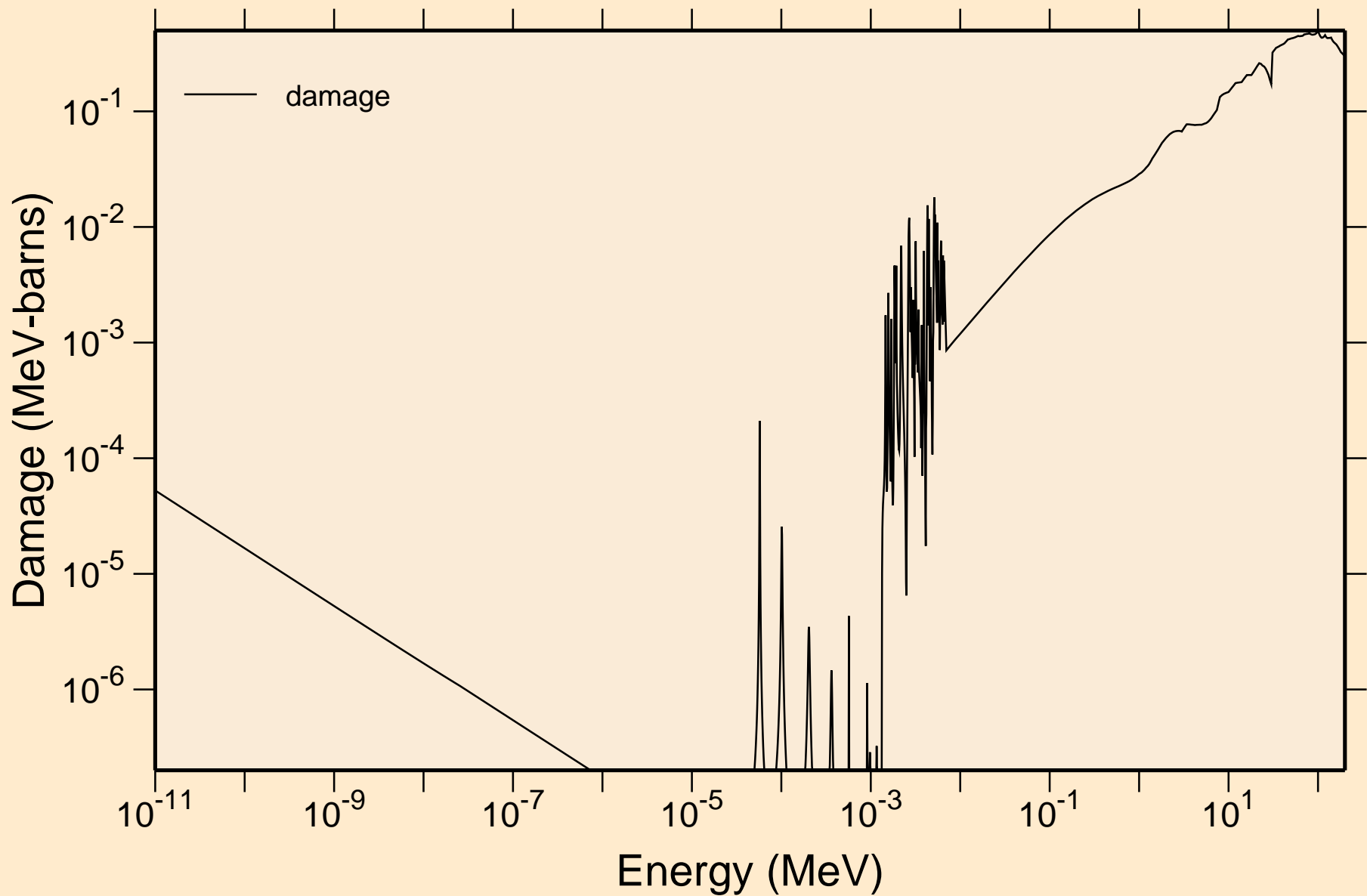
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



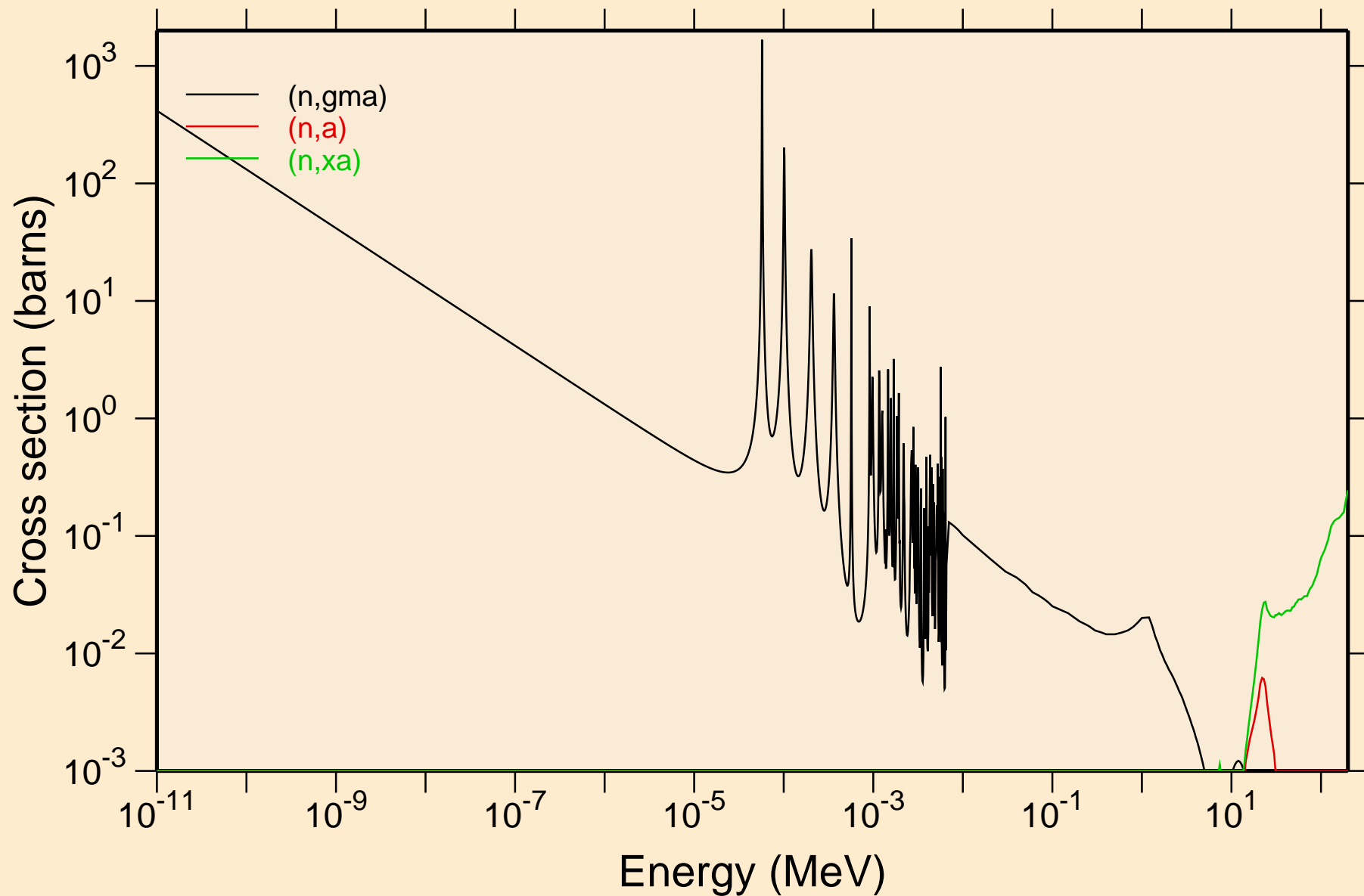
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



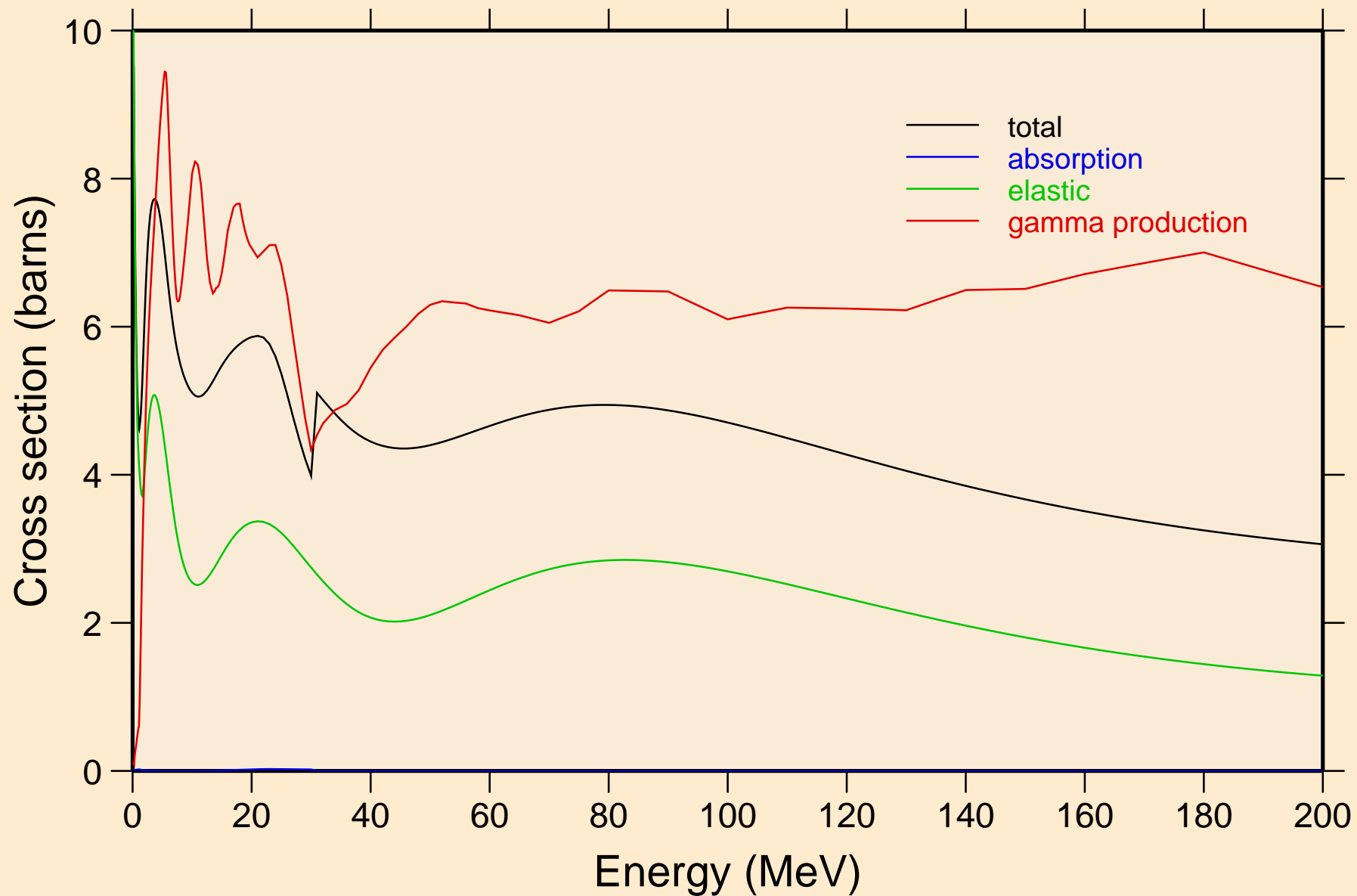
# BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



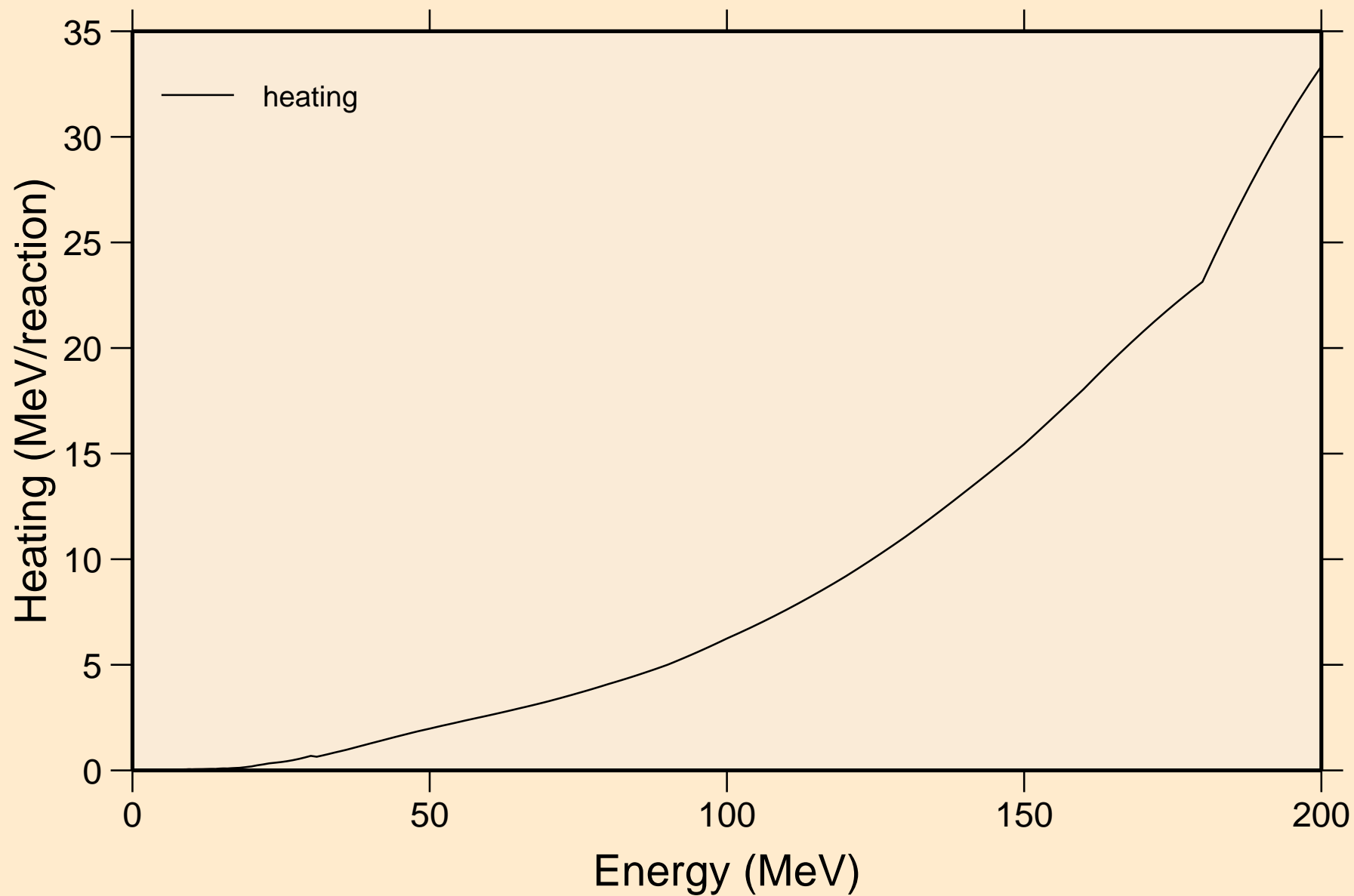
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



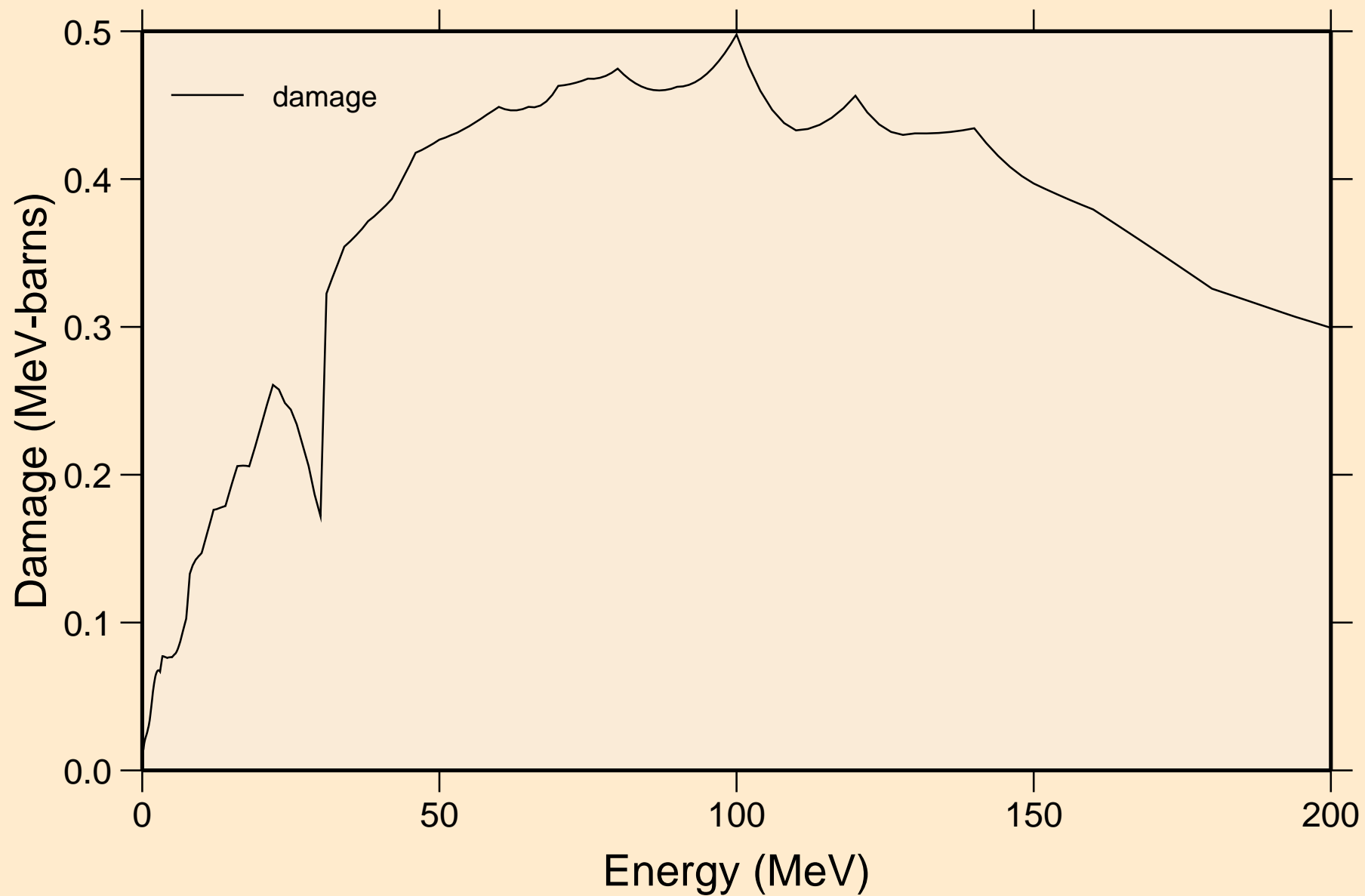
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



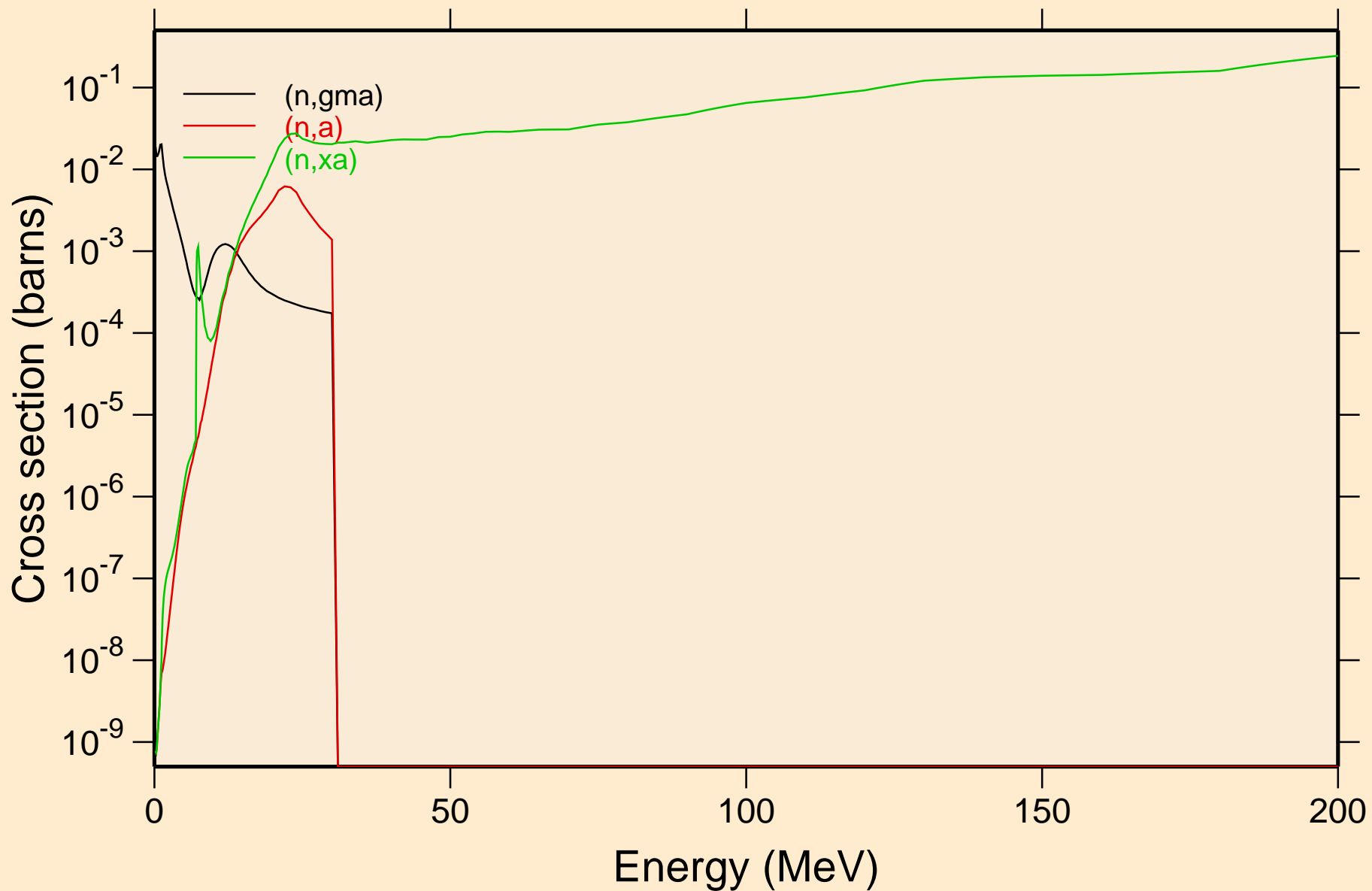
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

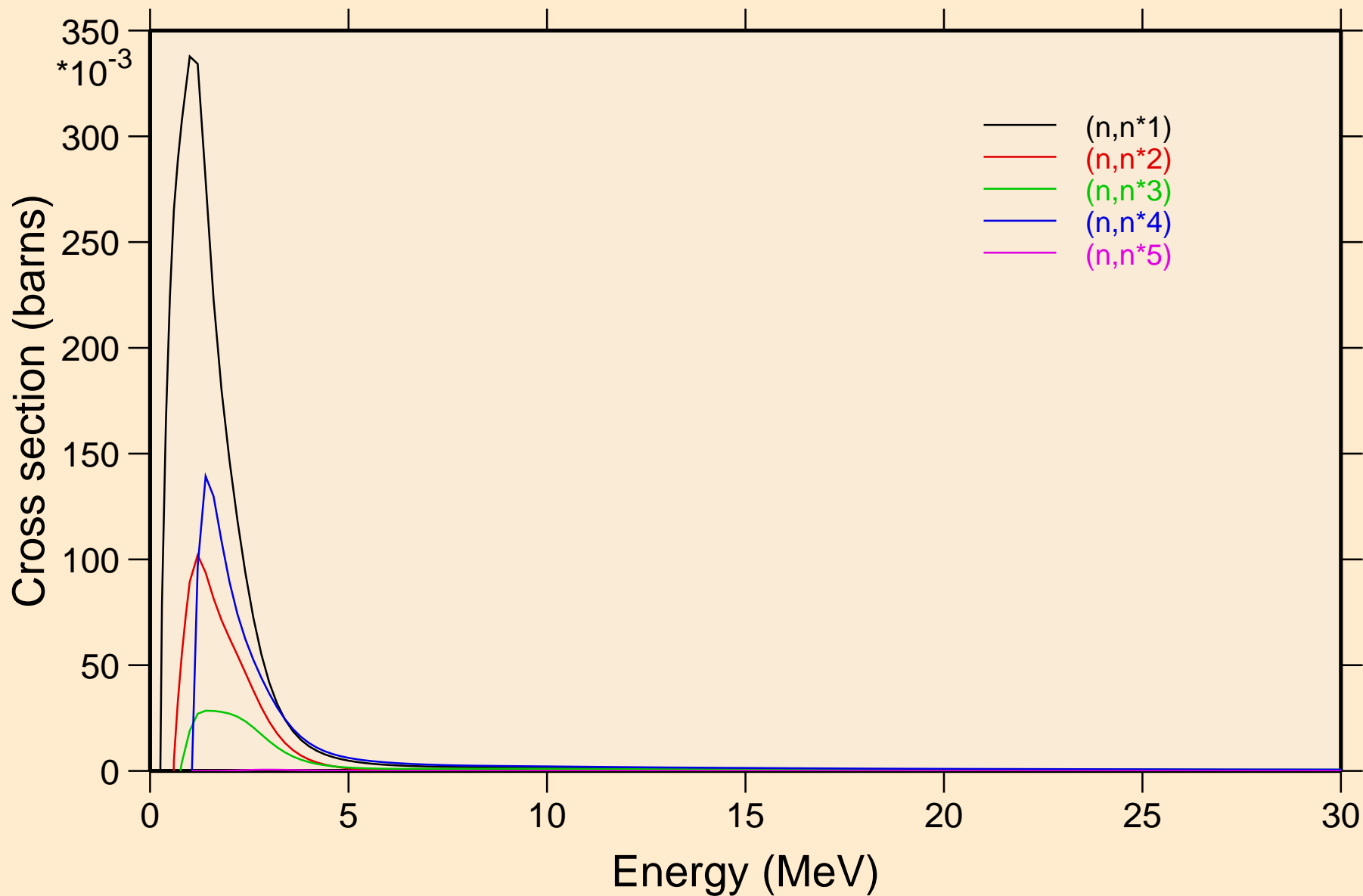


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

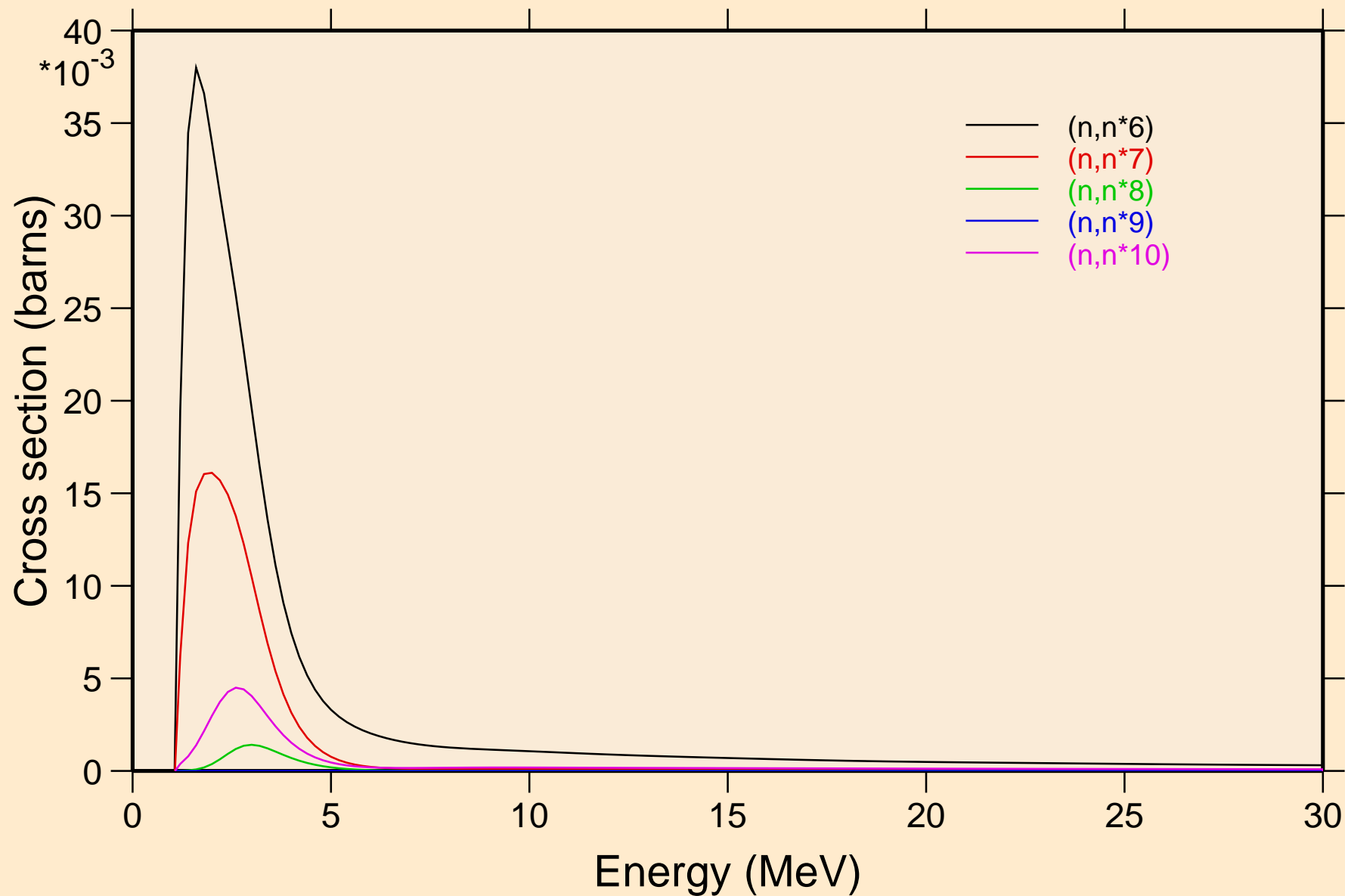




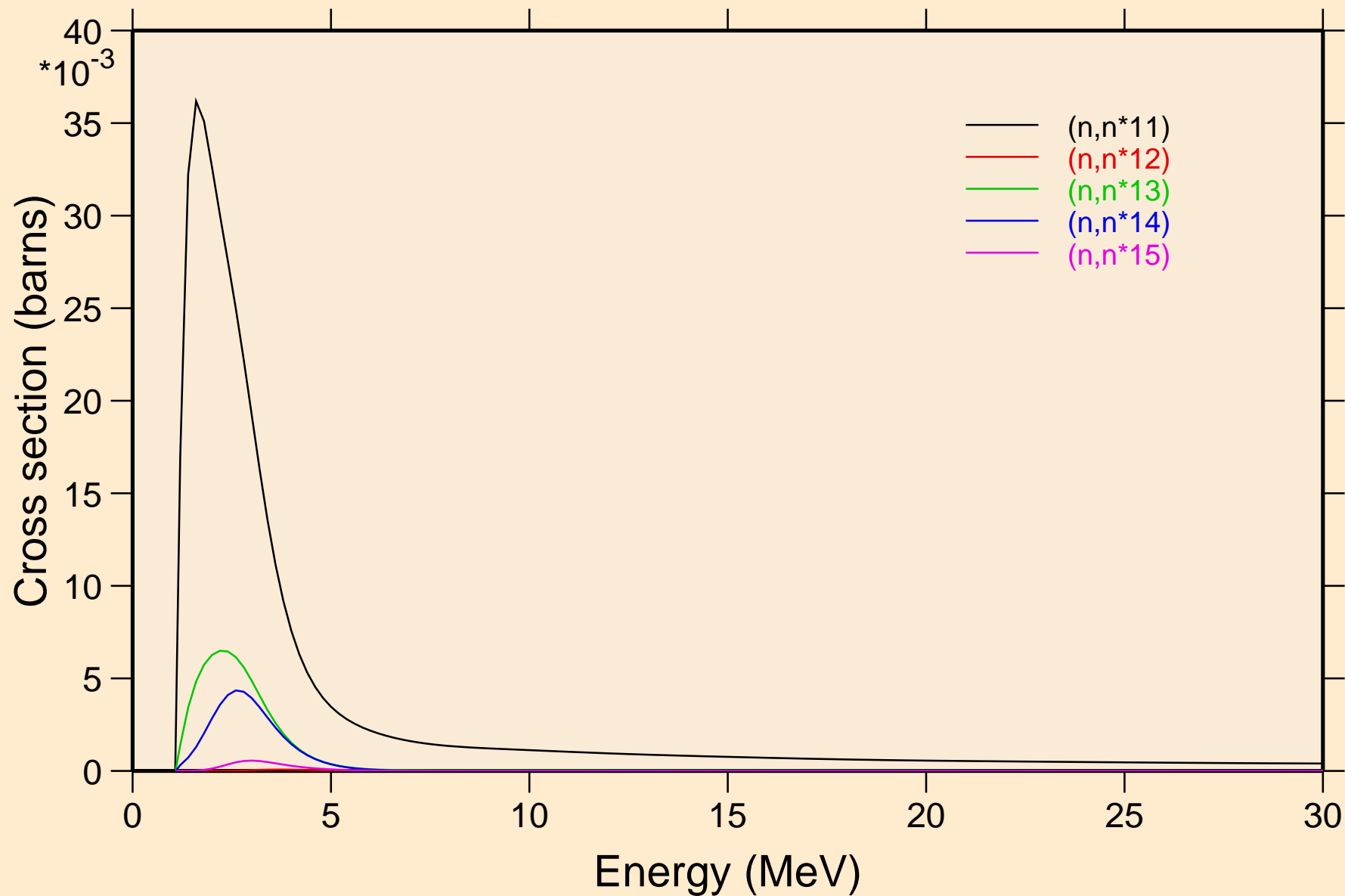
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



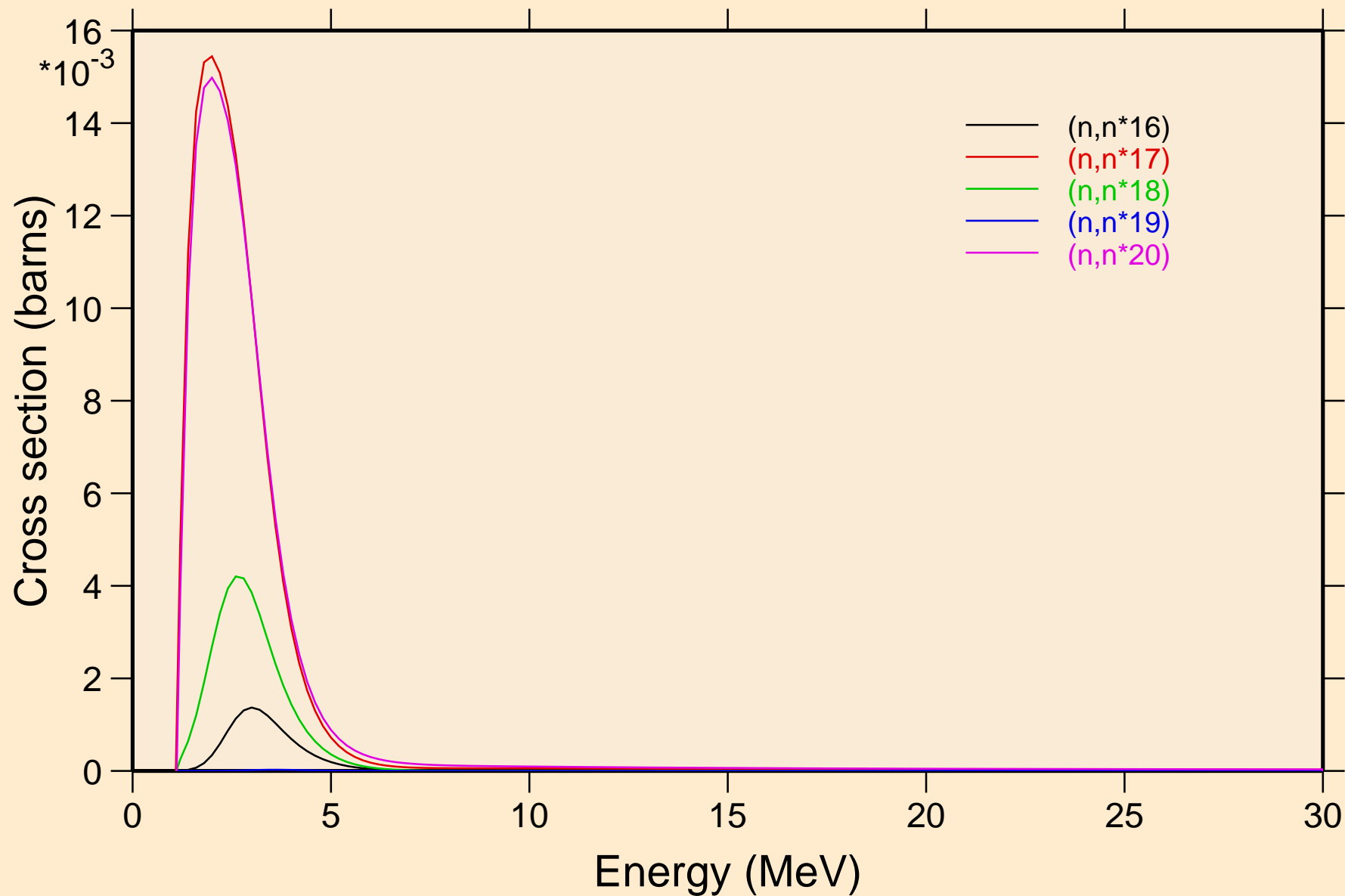
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



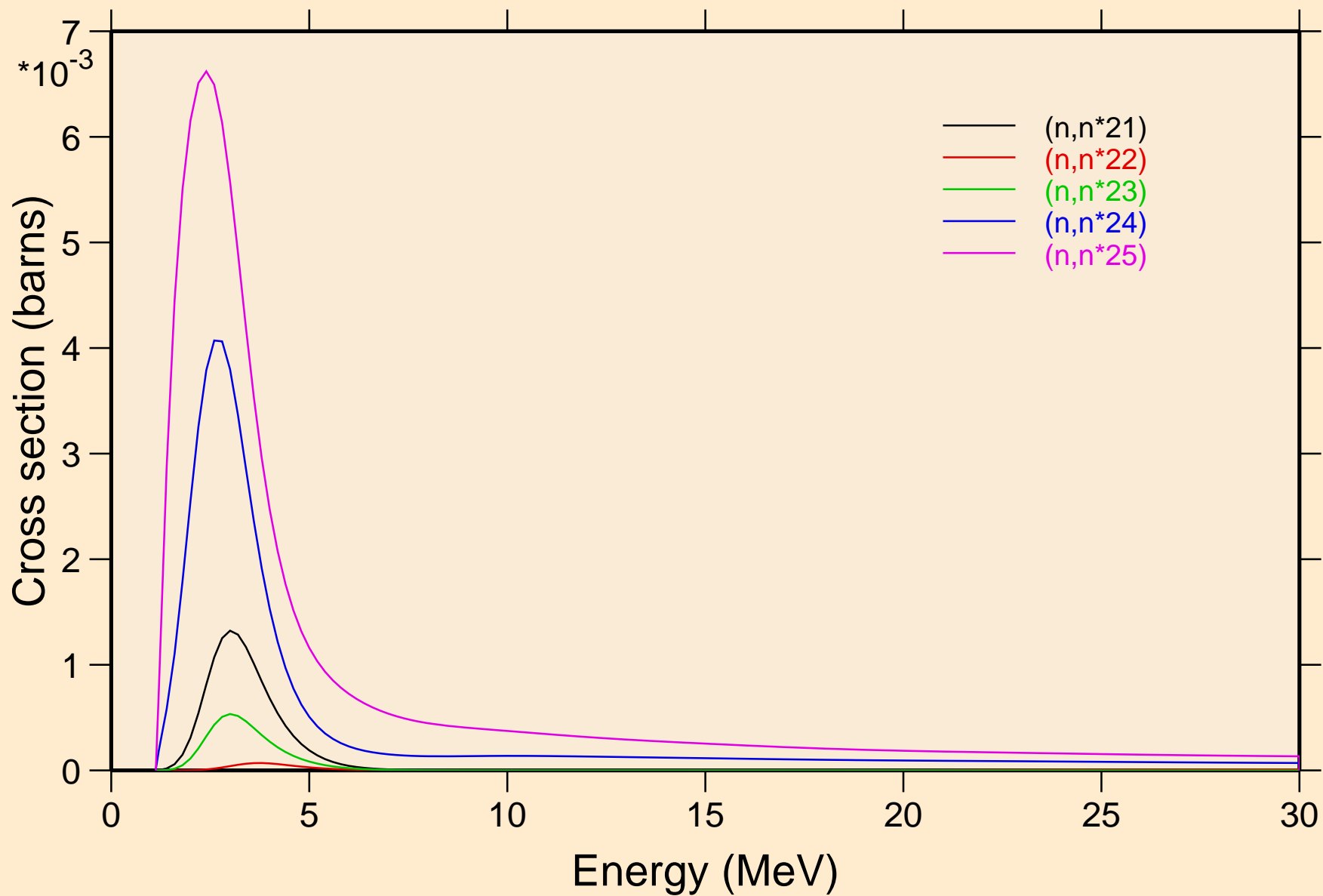
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



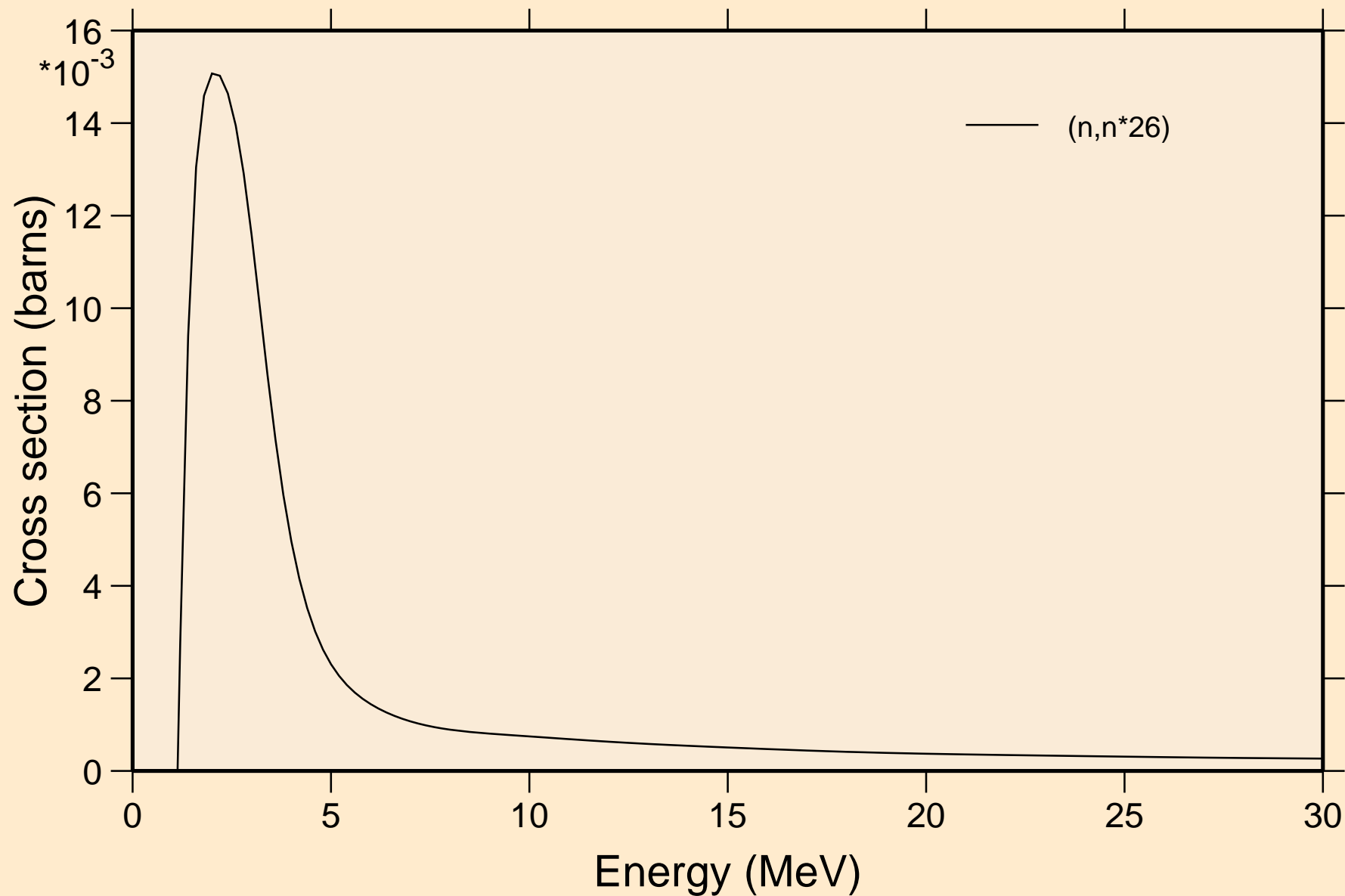
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



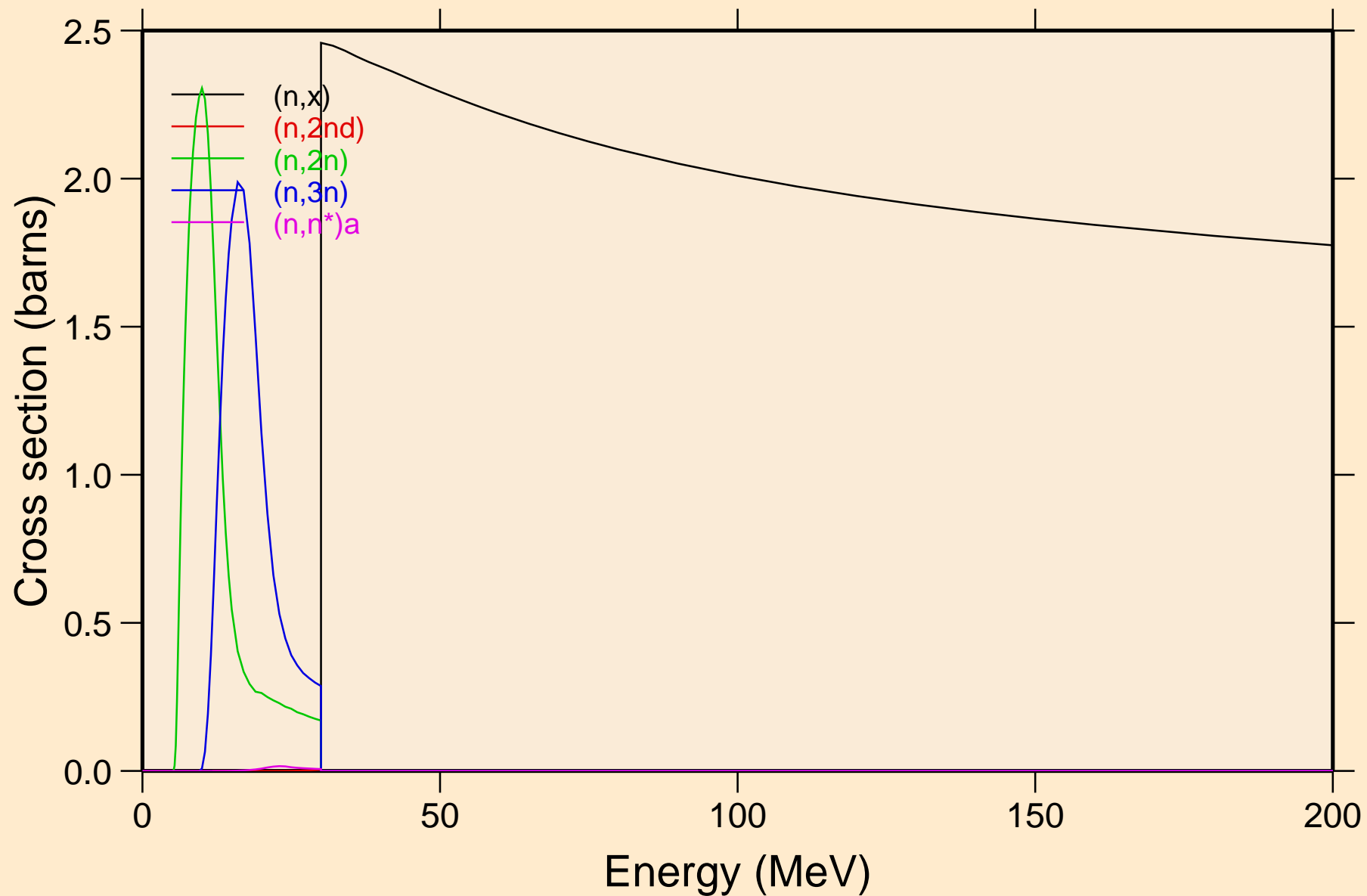
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



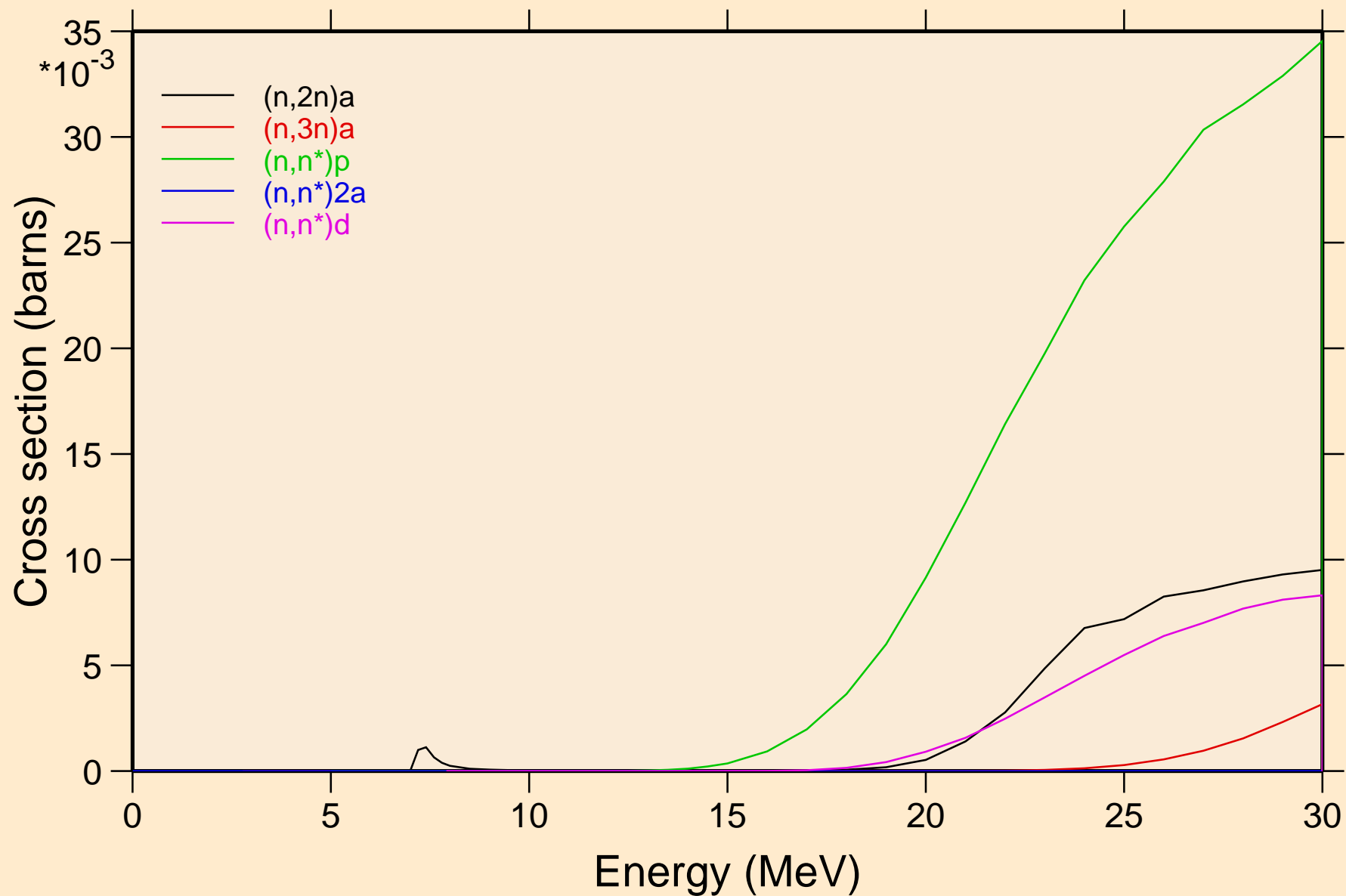
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

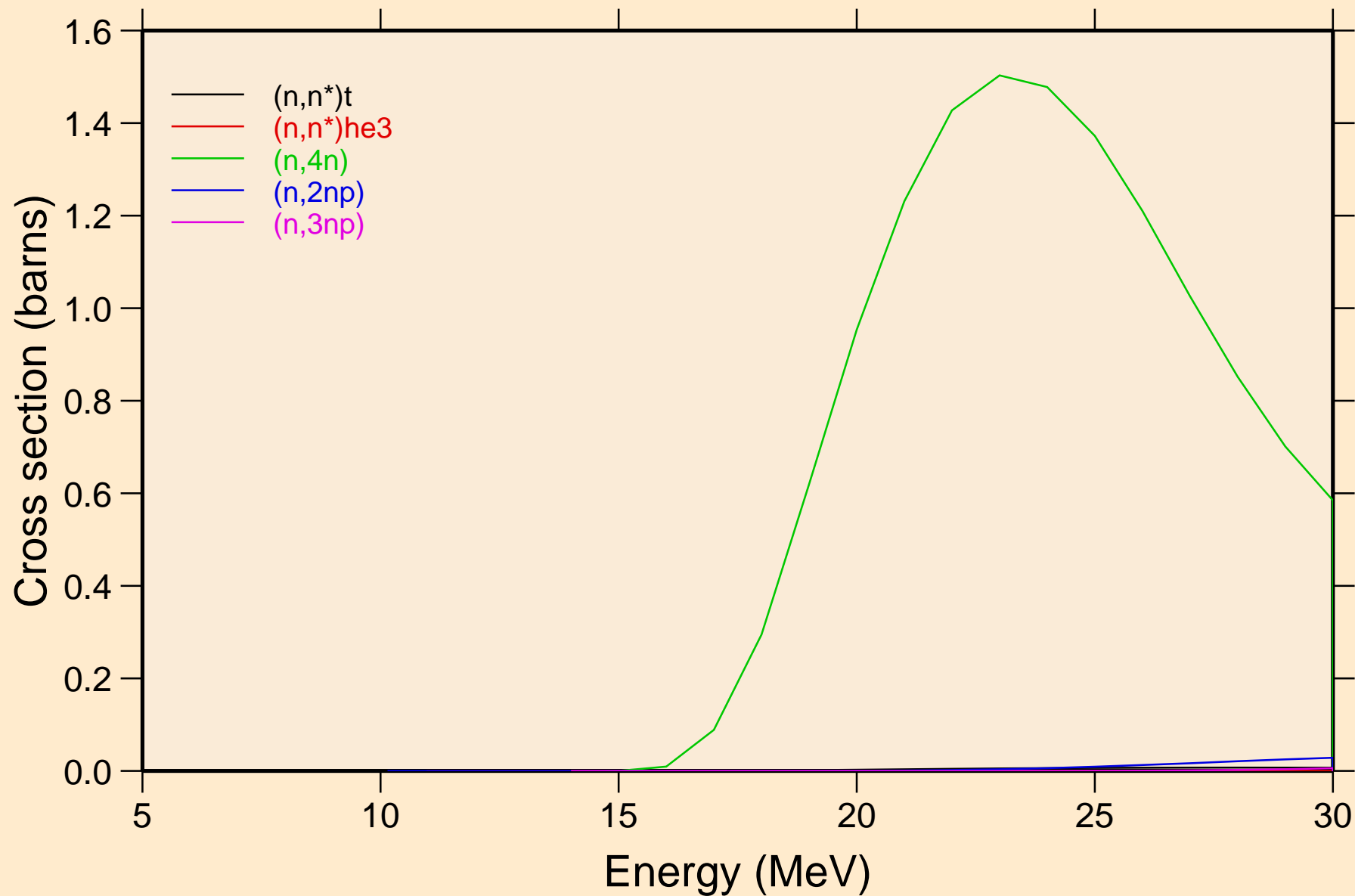


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

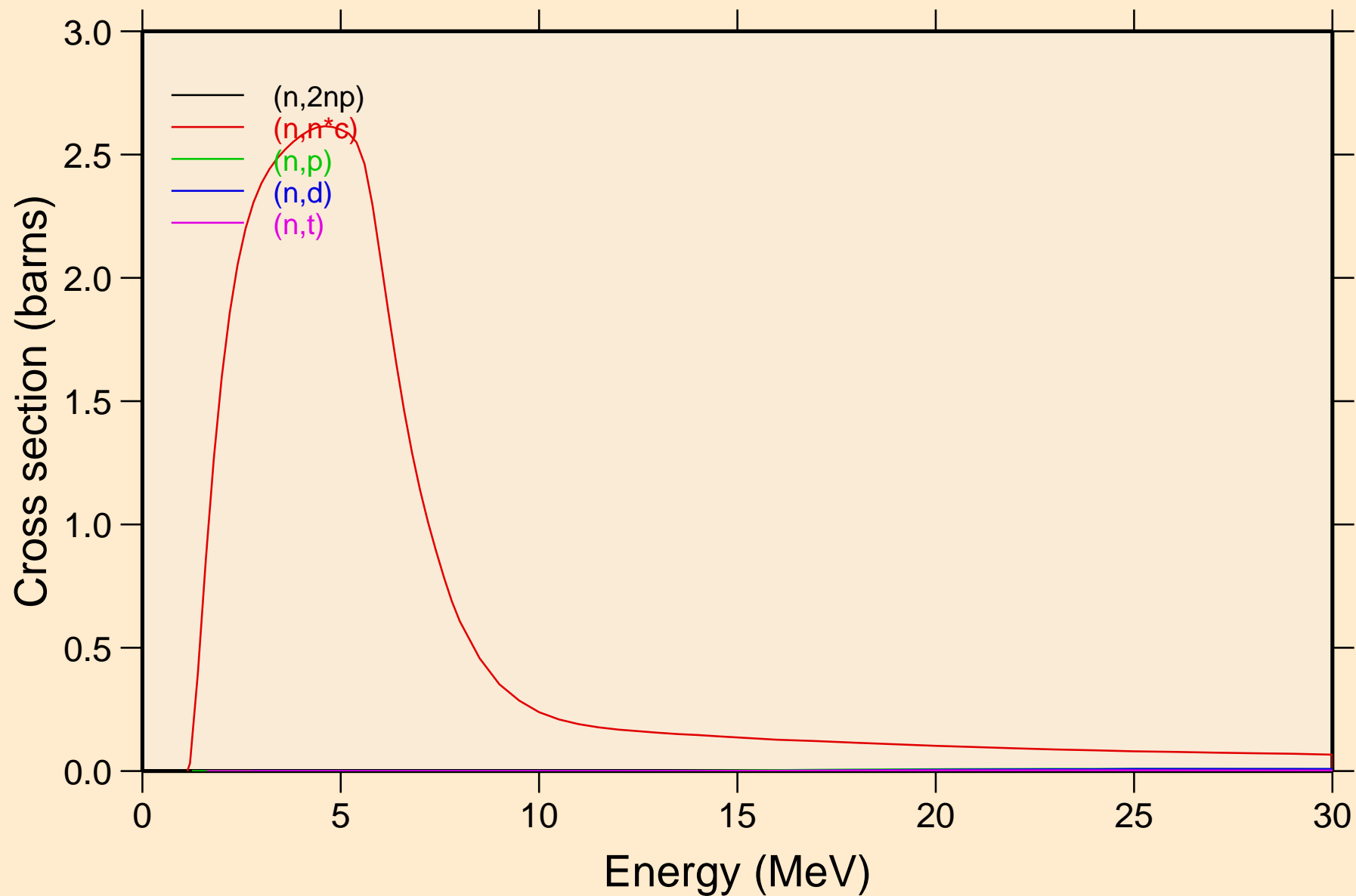




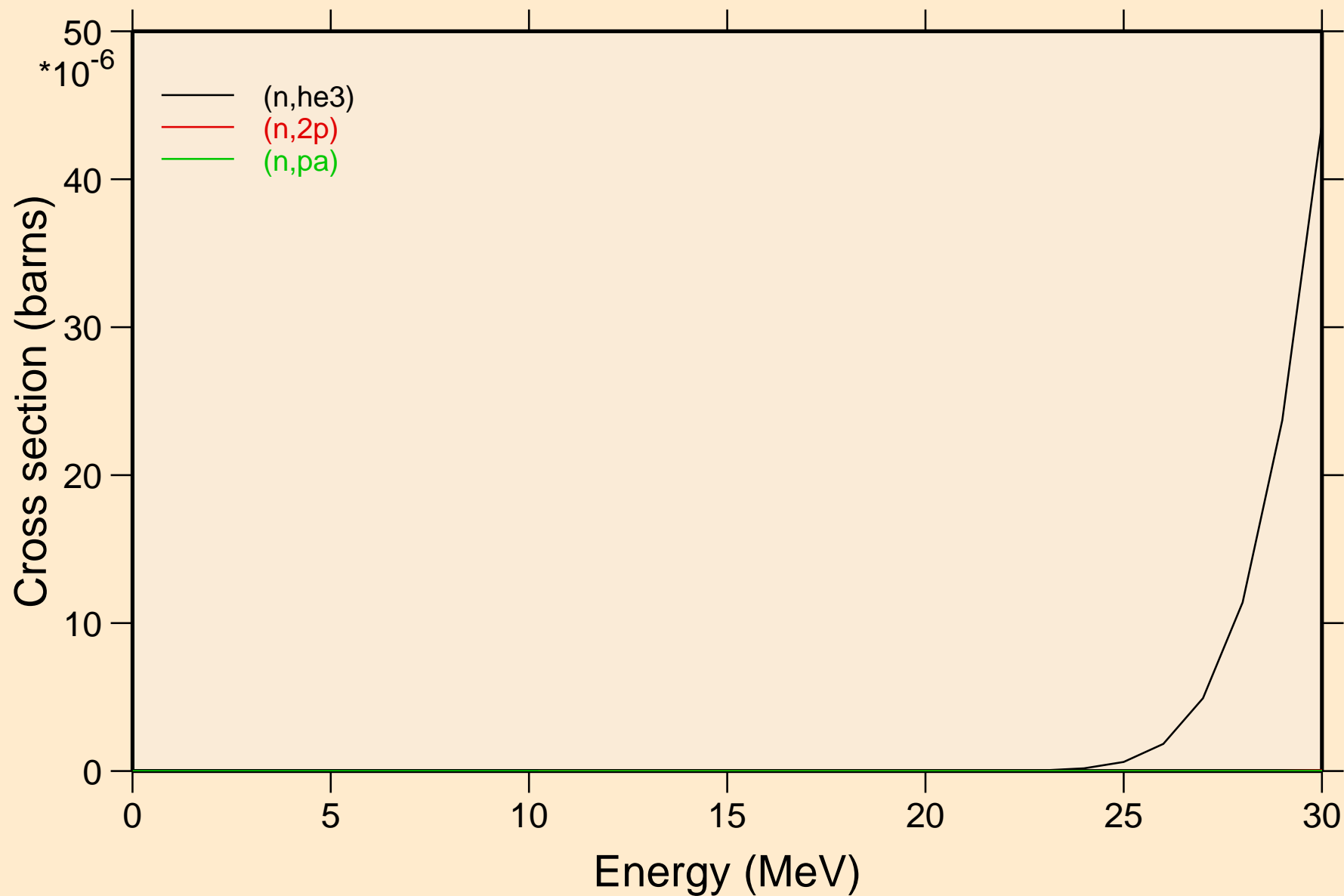
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



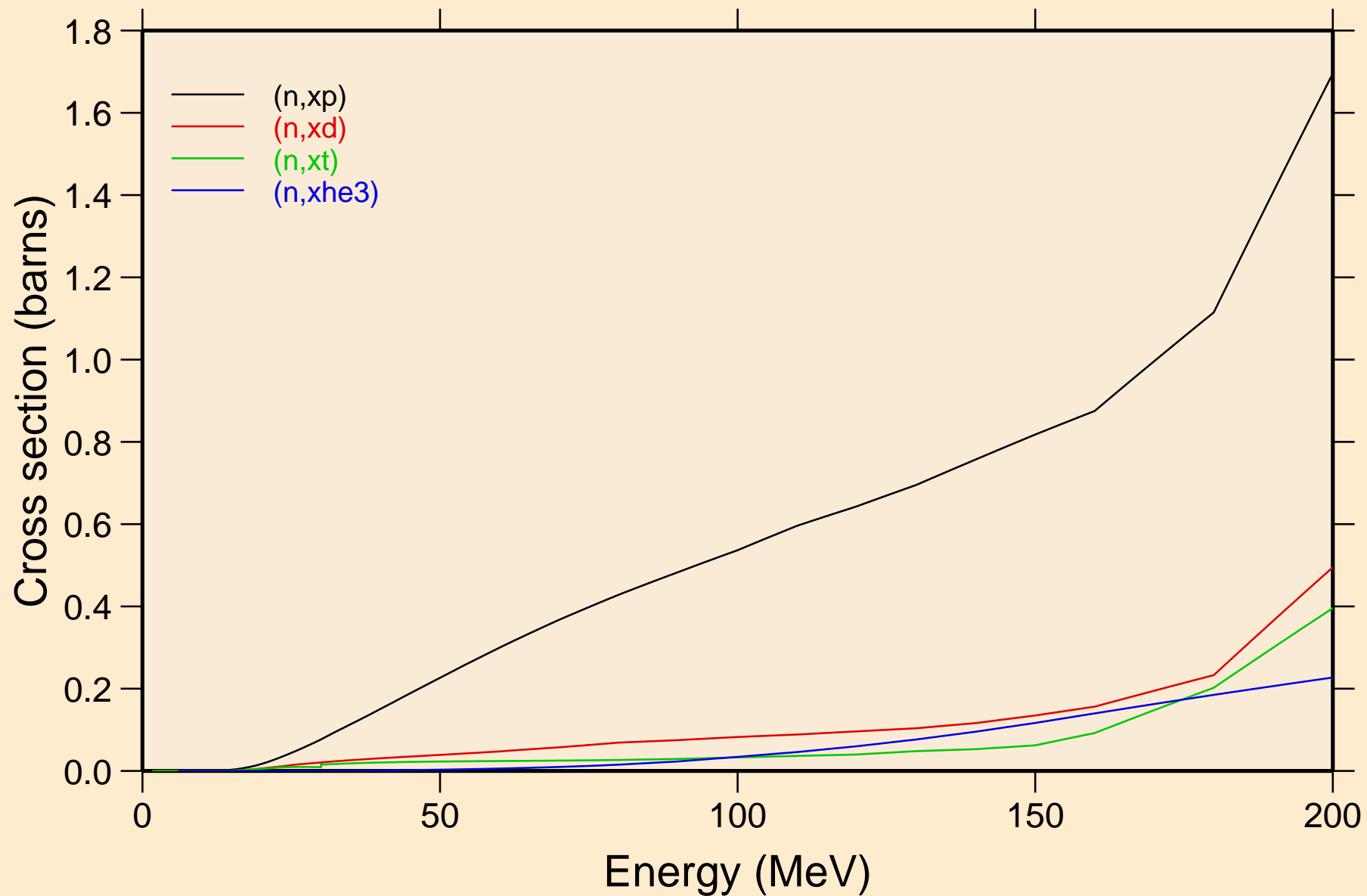
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



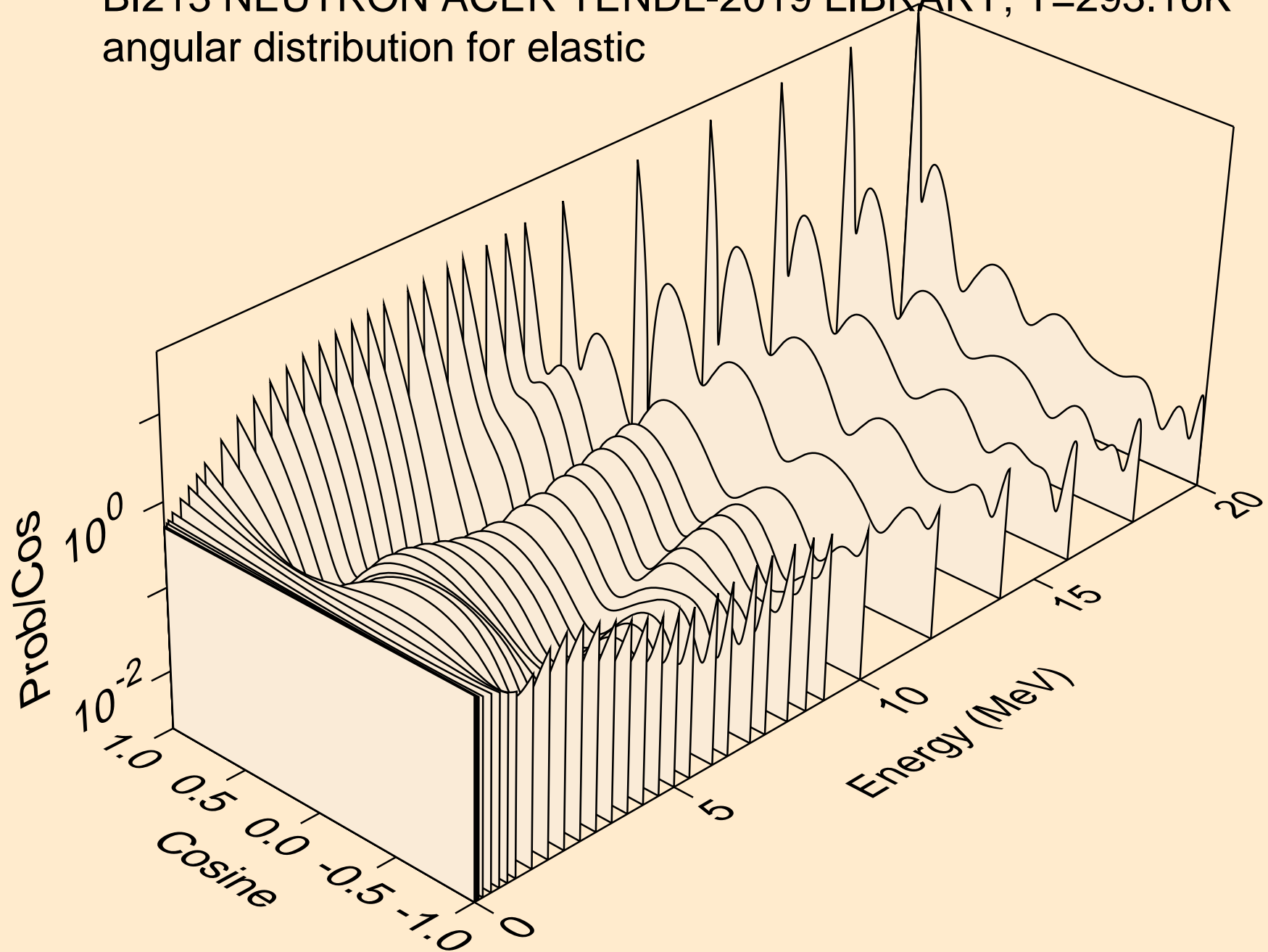
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



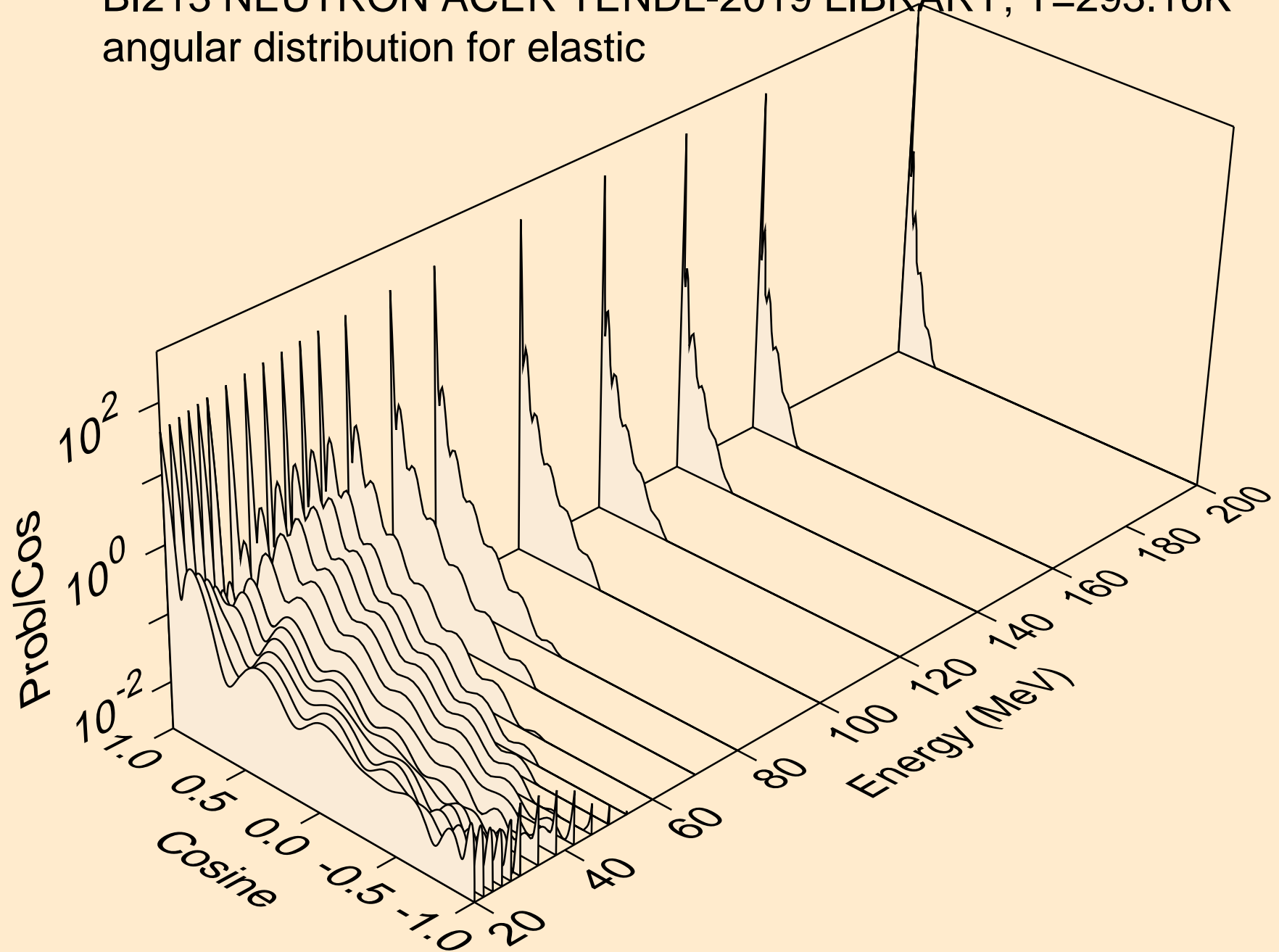
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



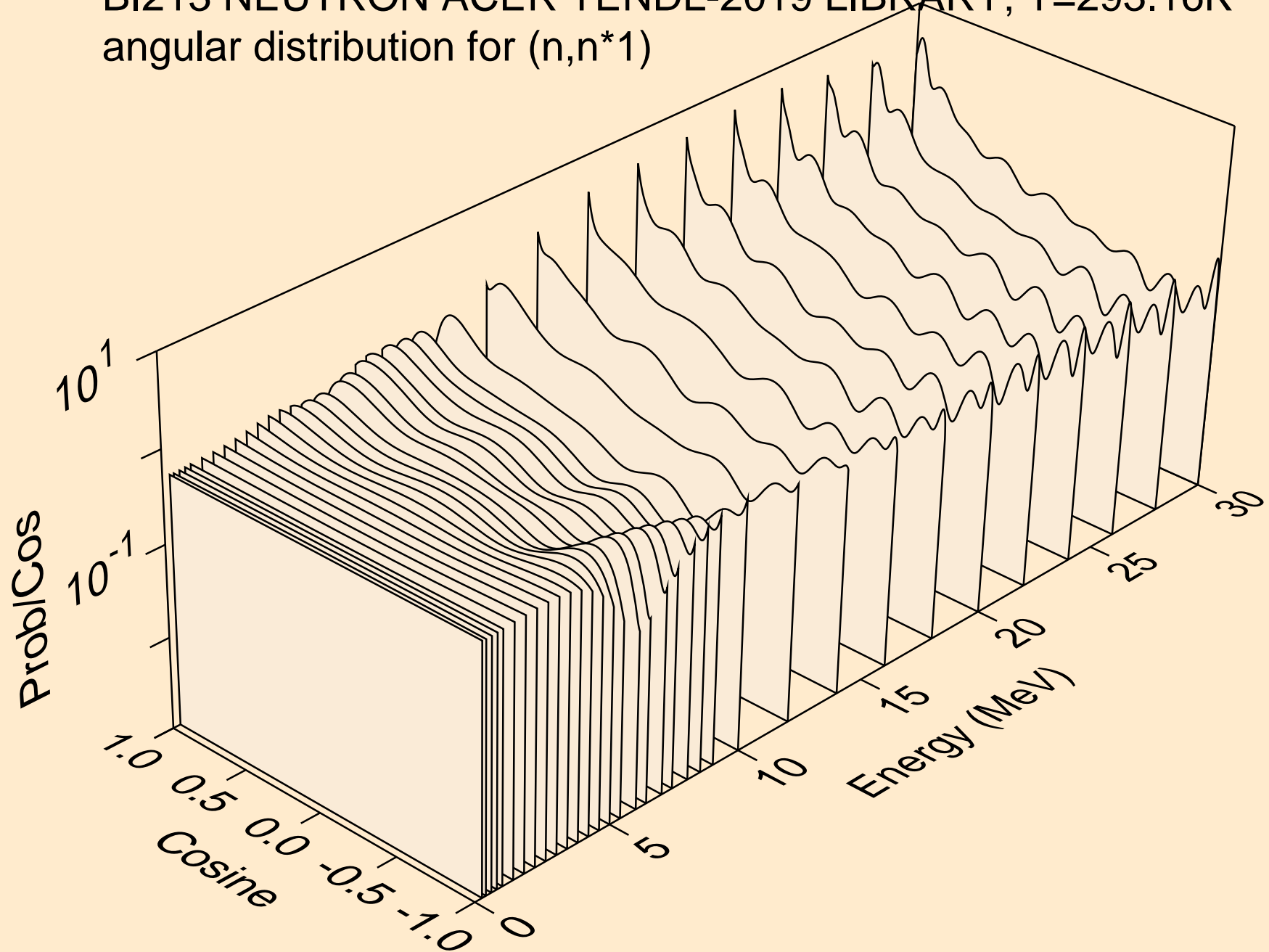
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



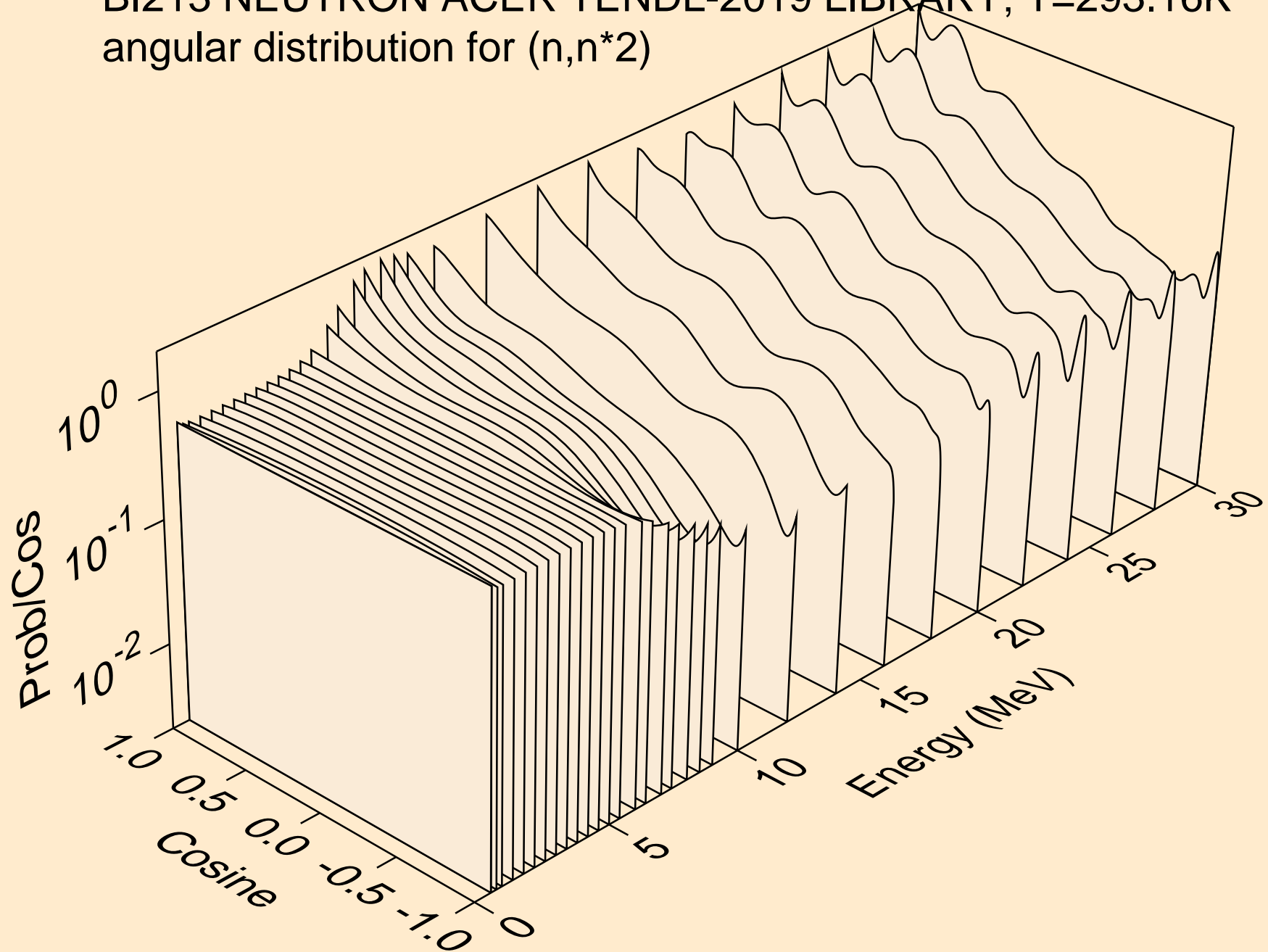
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

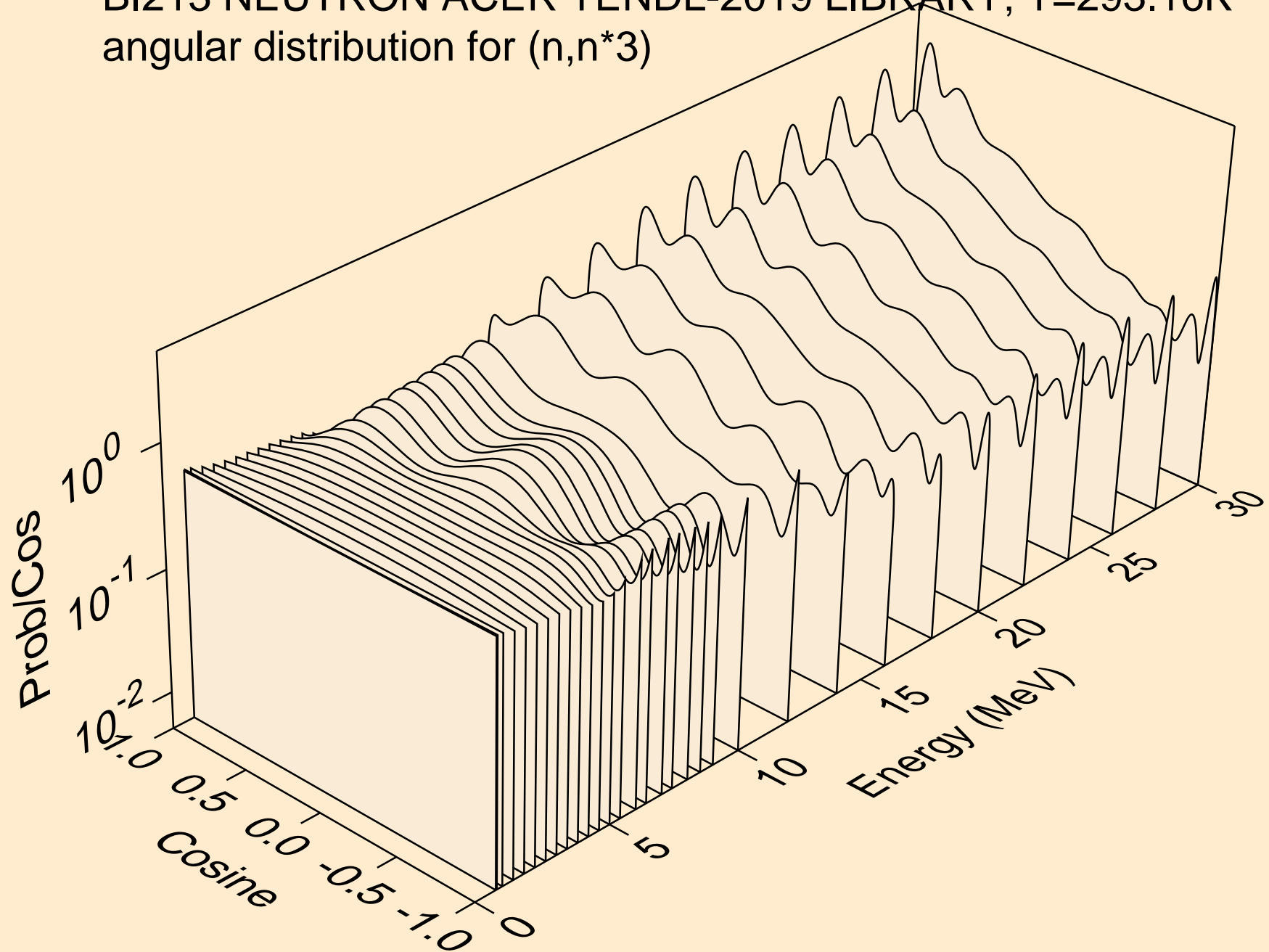


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)

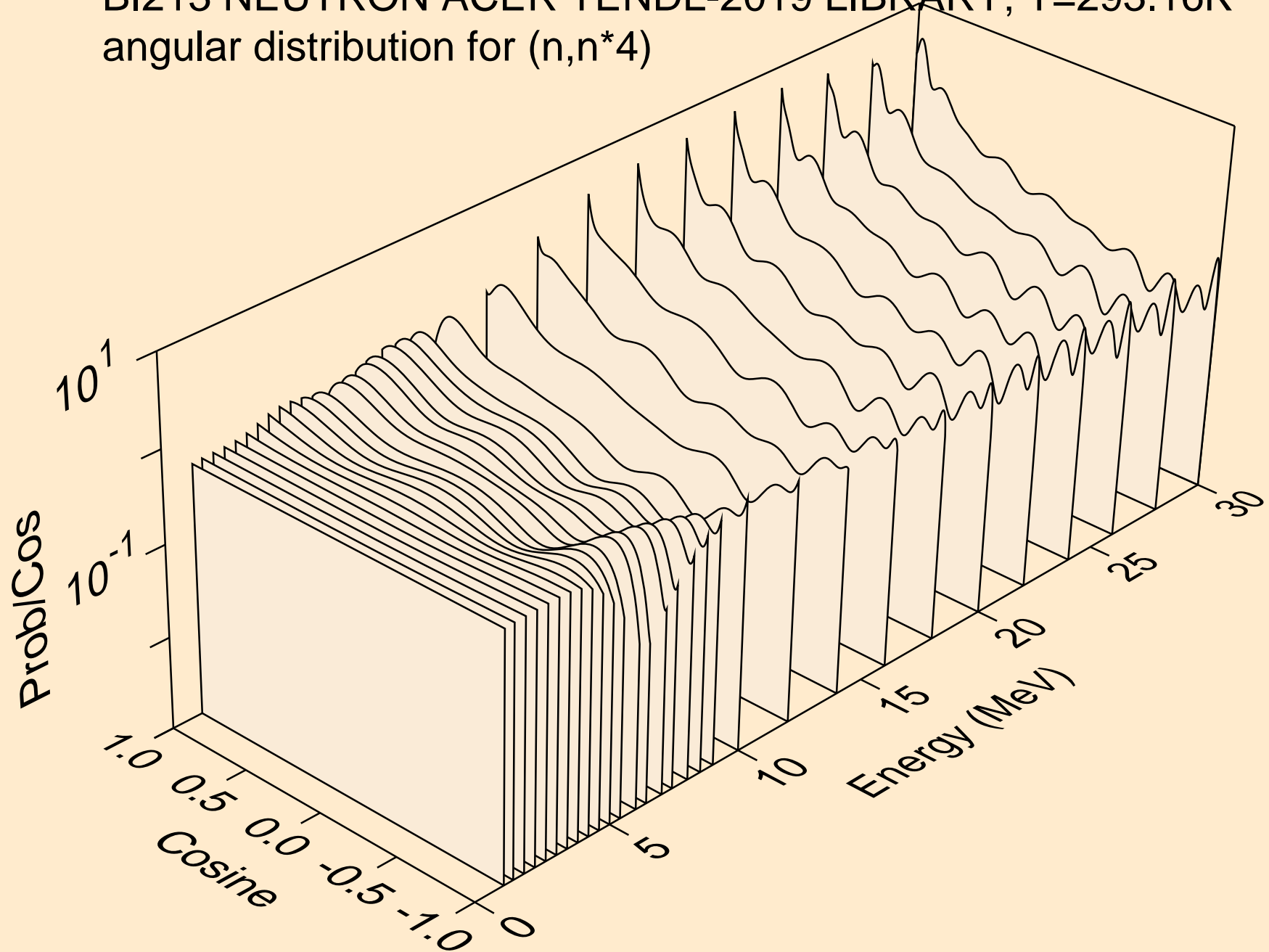




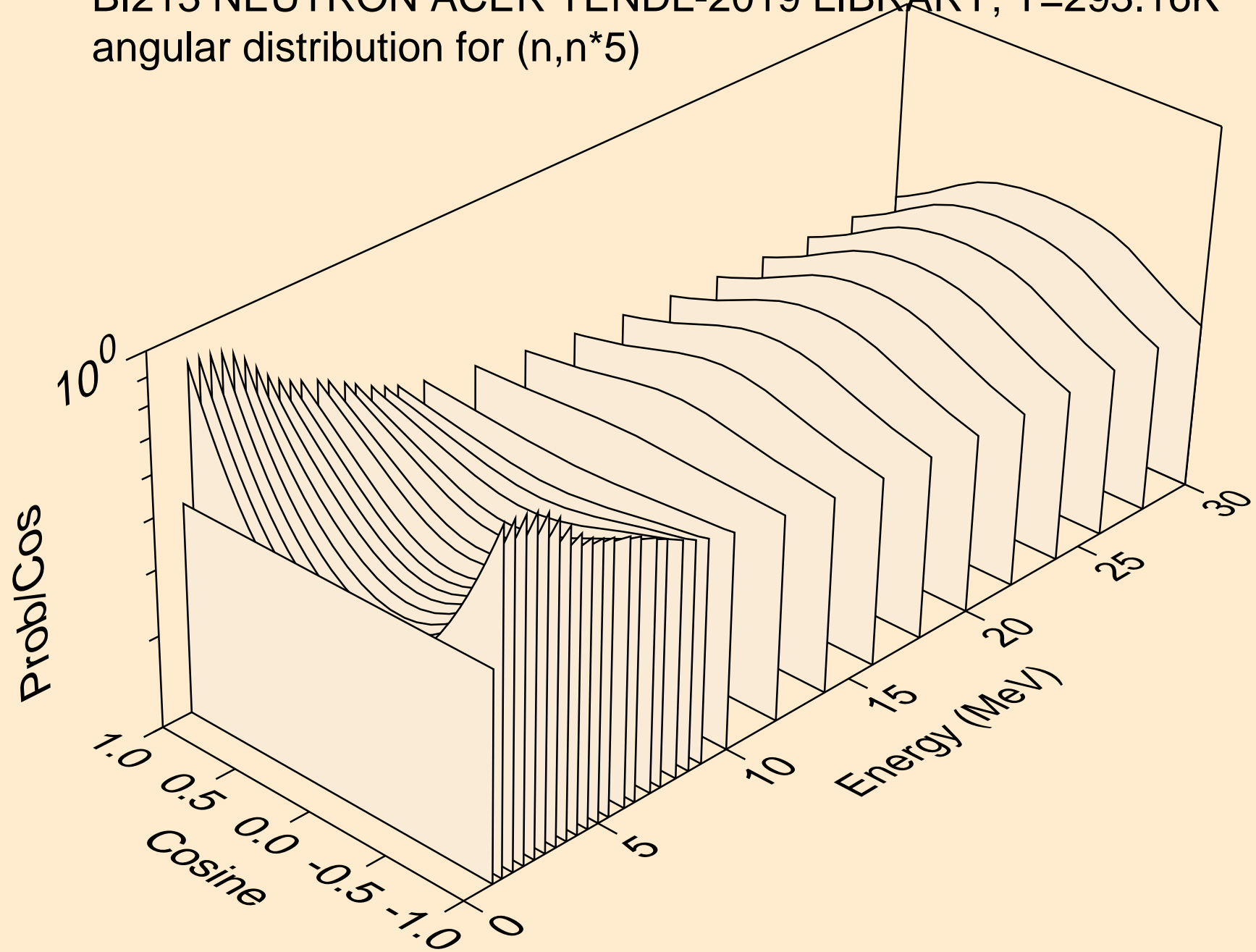
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



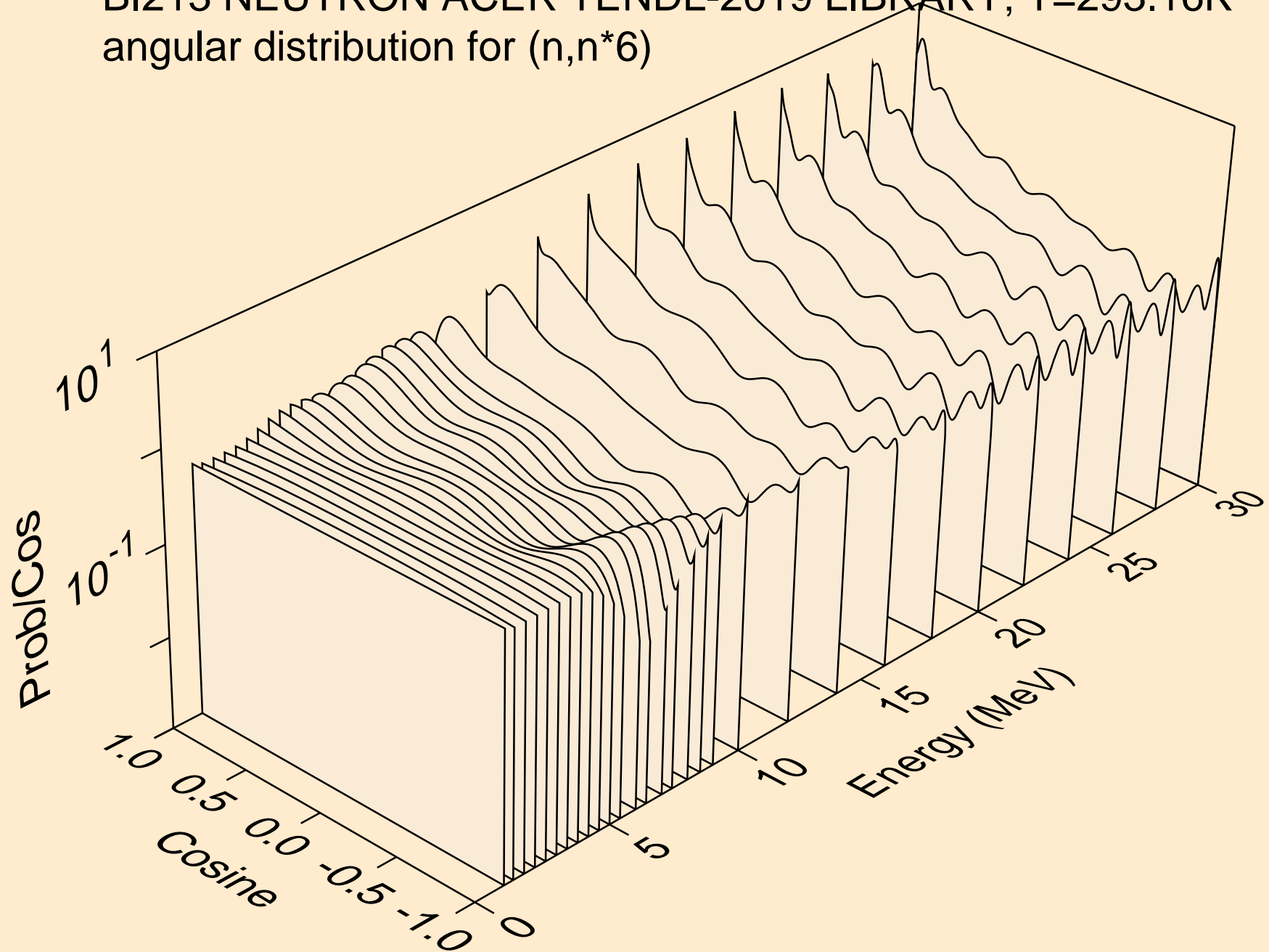
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*4)



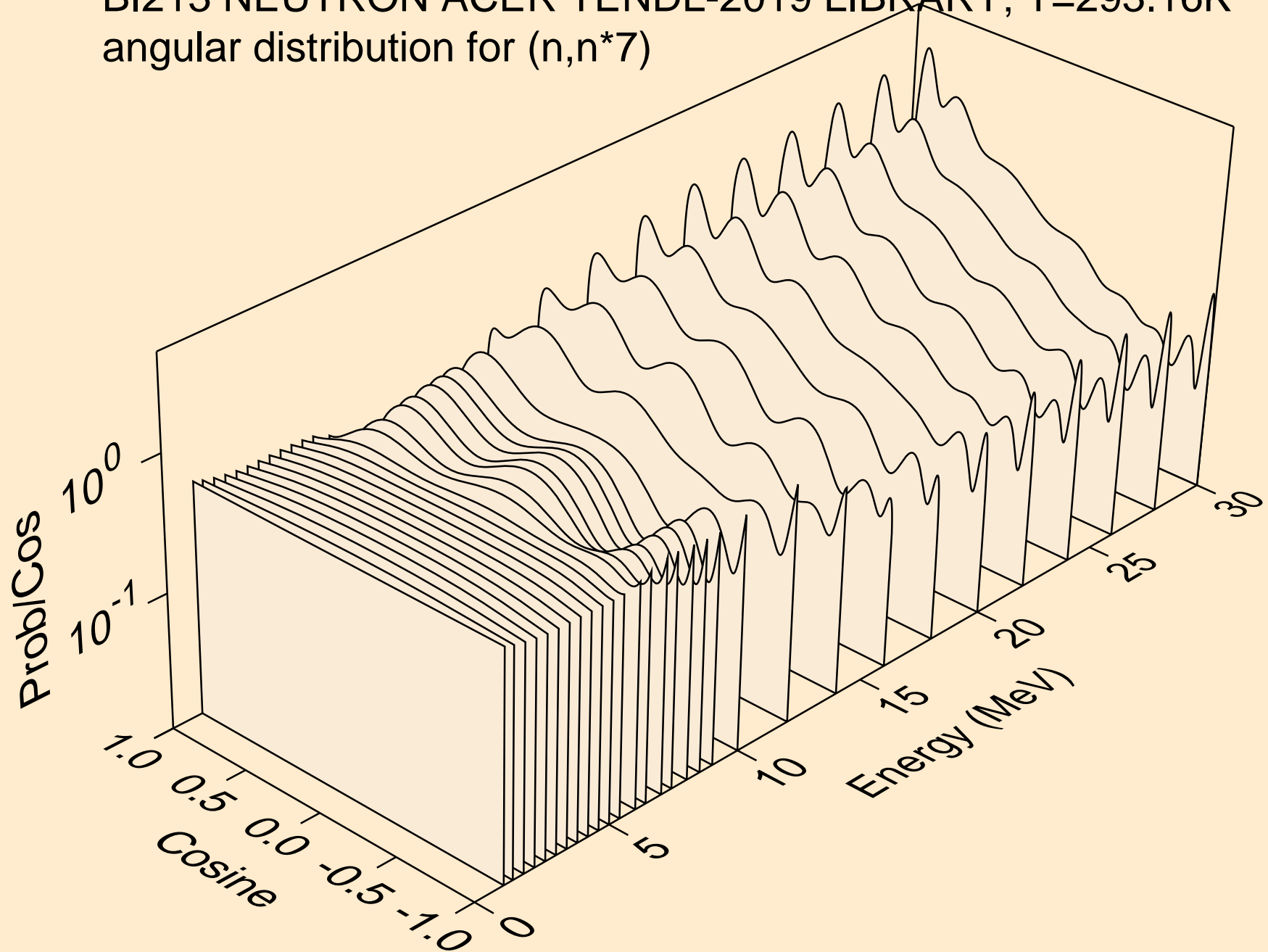
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



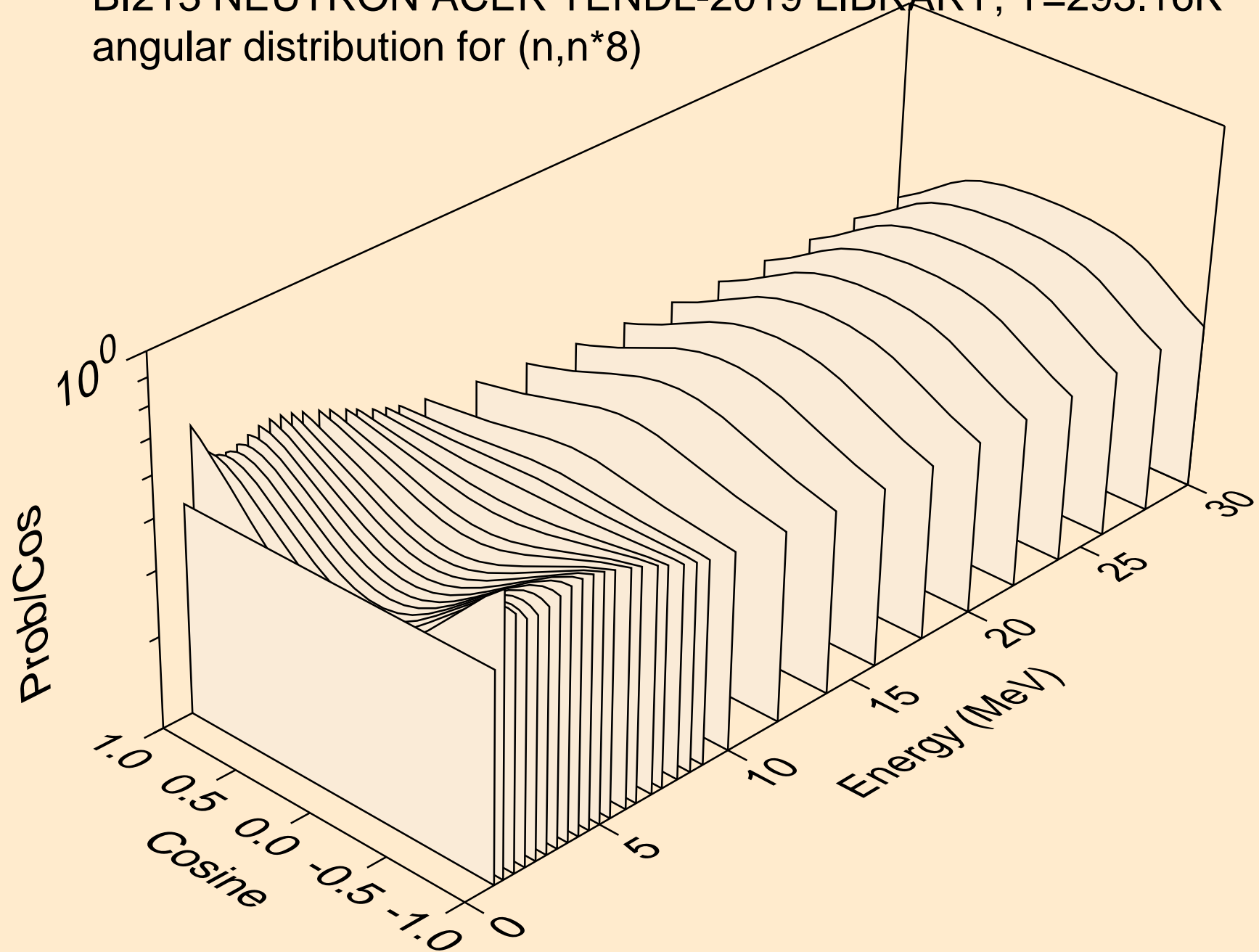
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angular distribution for (n,n\*6)



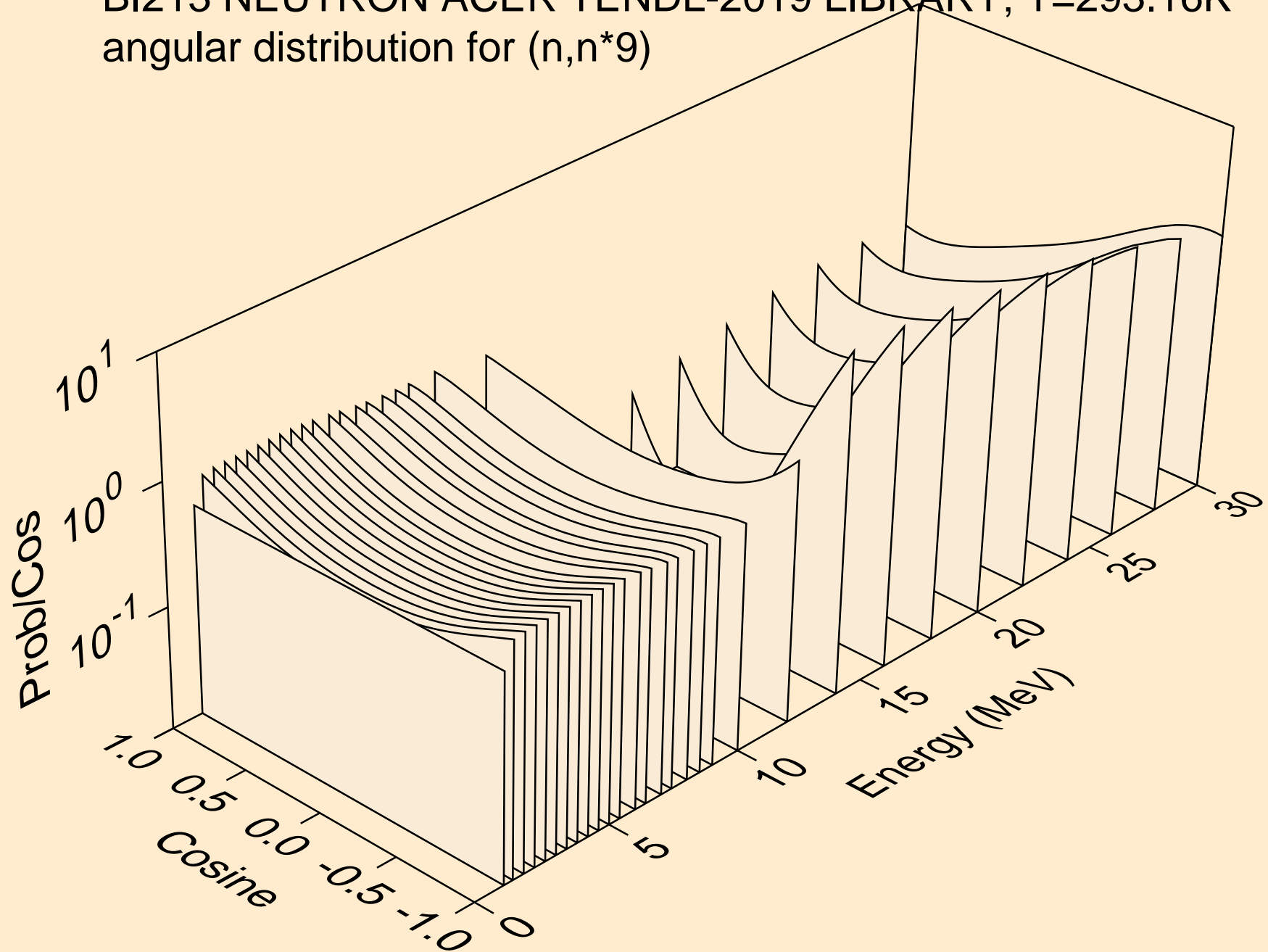
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angular distribution for (n,n\*7)



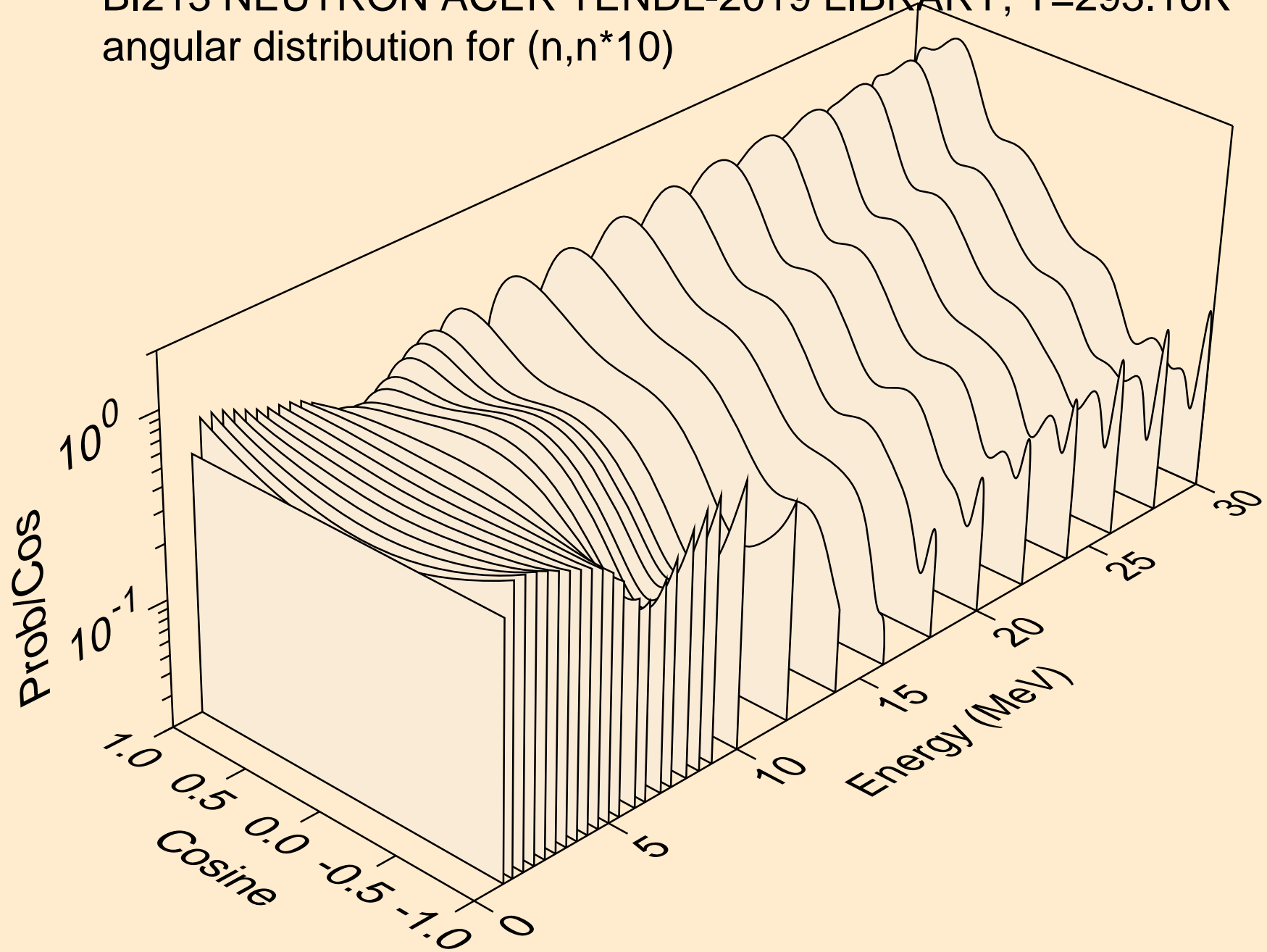
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

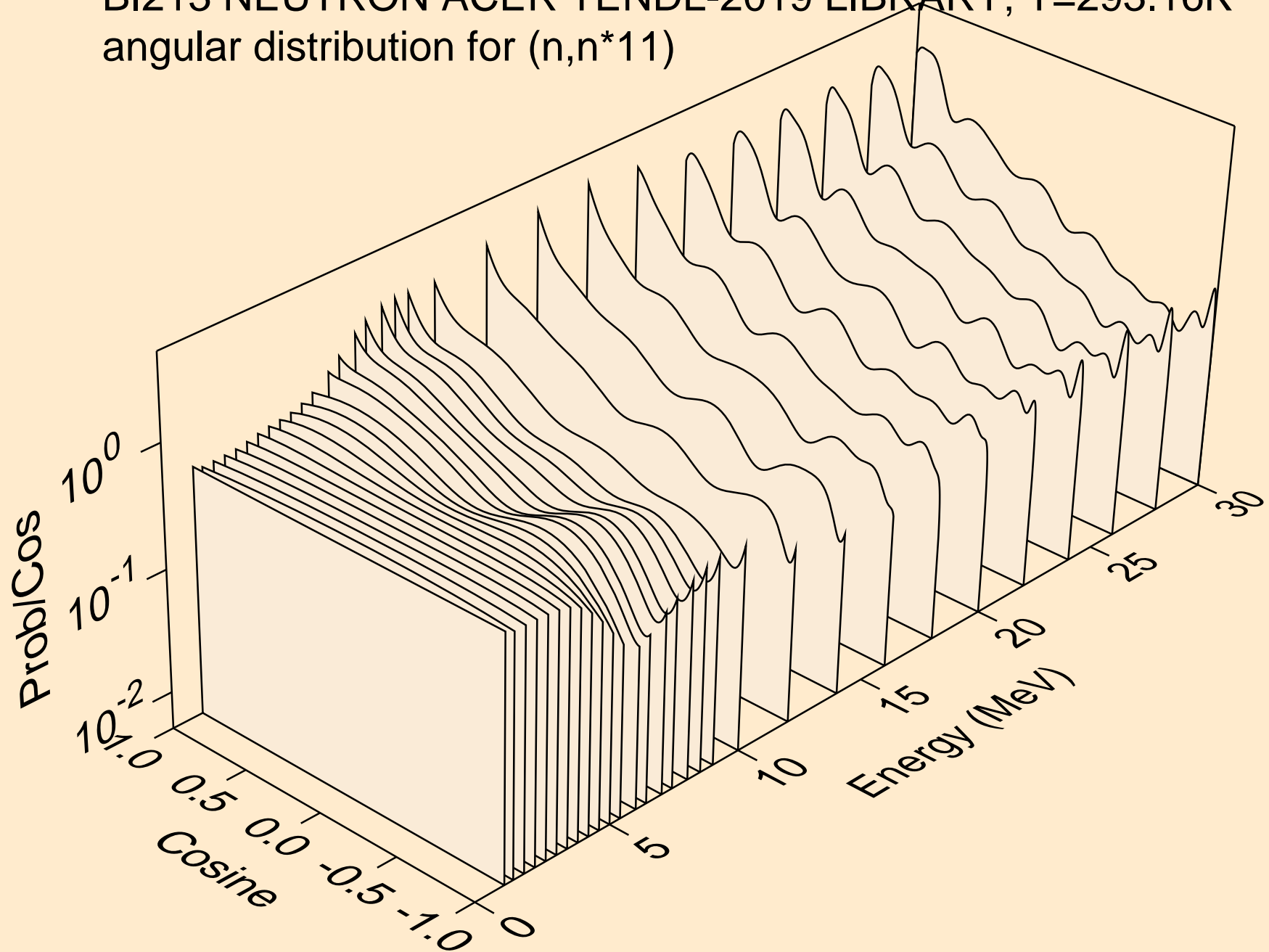


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)

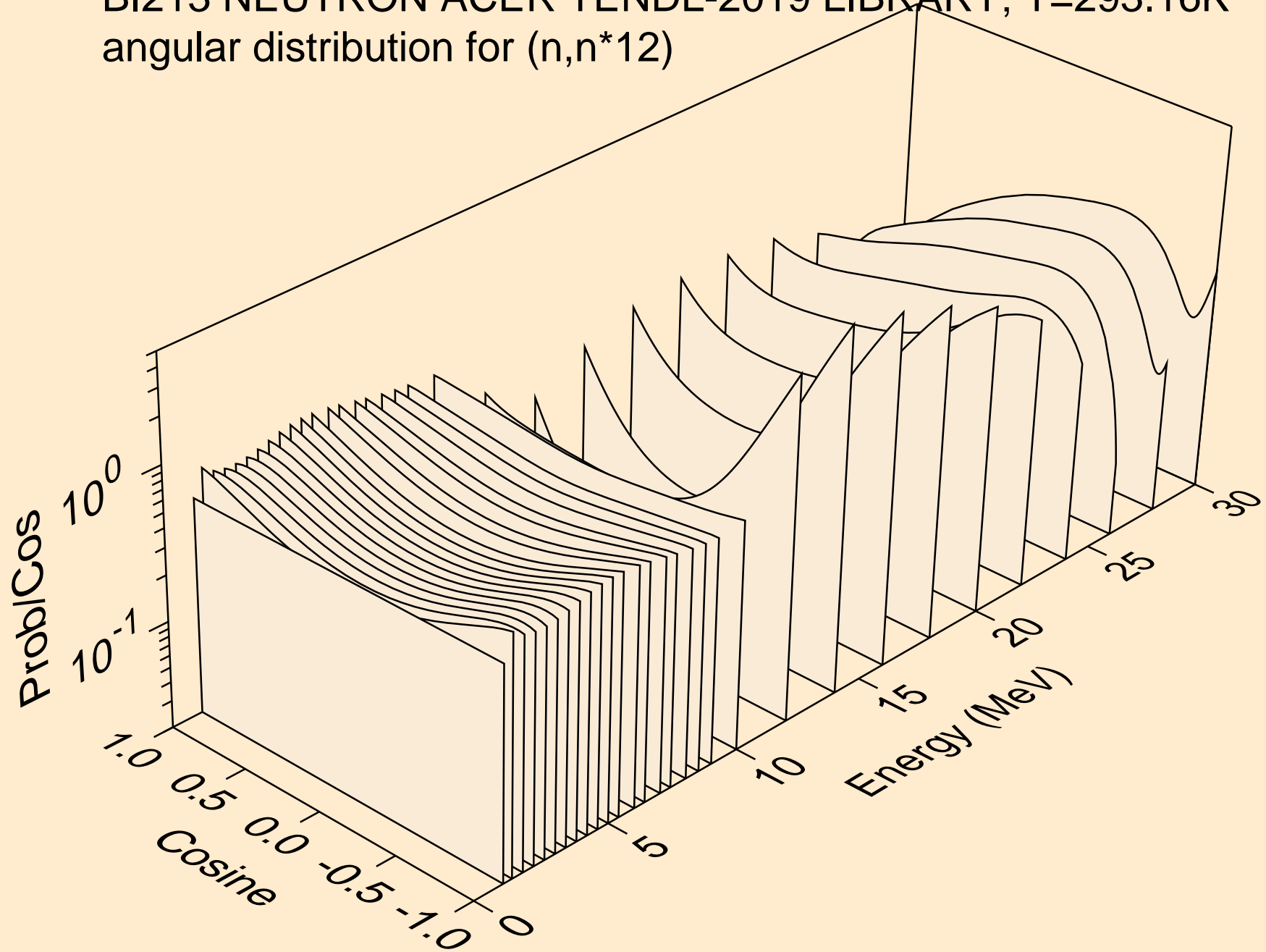




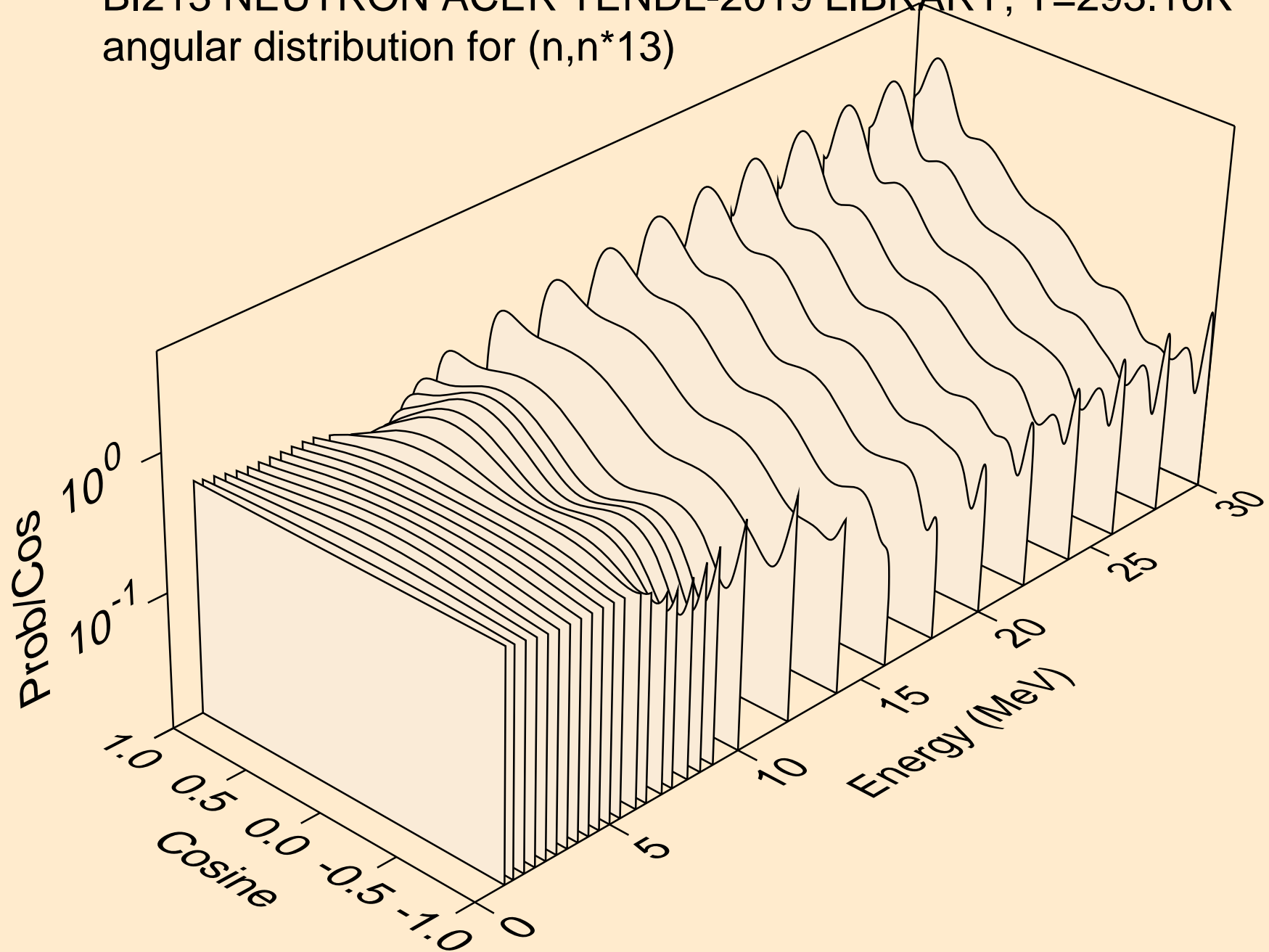
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angular distribution for (n,n\*11)



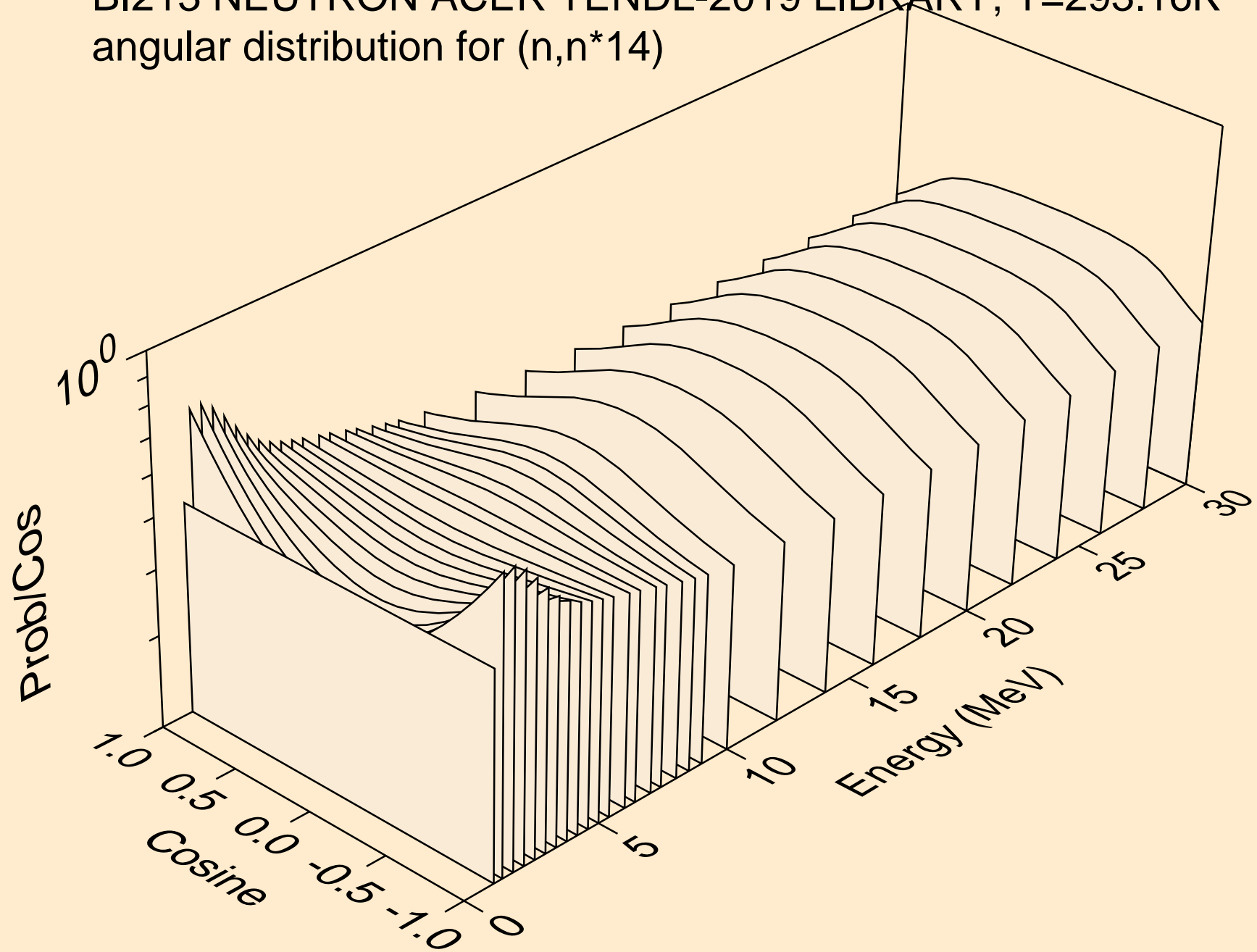
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angular distribution for (n,n\*12)



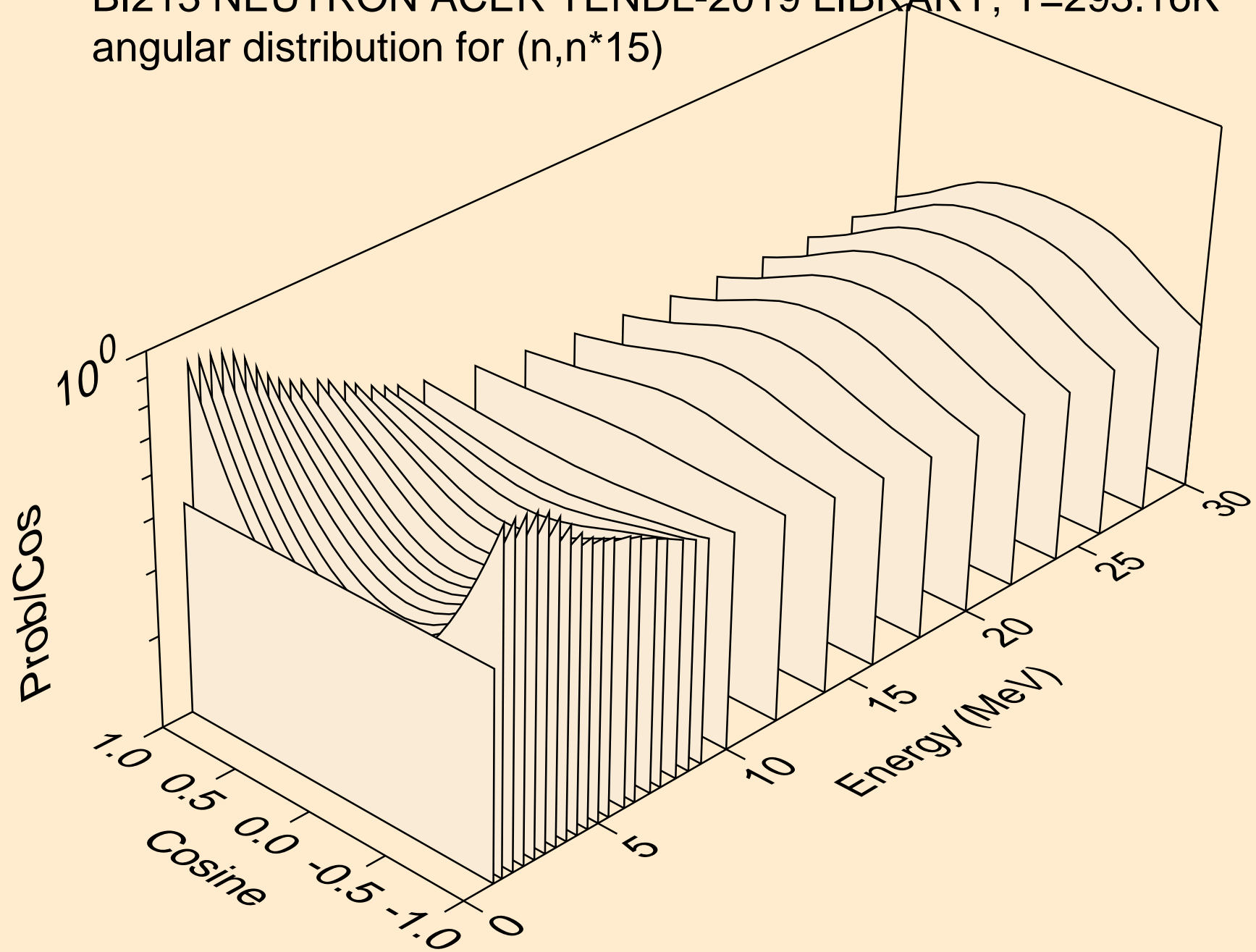
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*13)



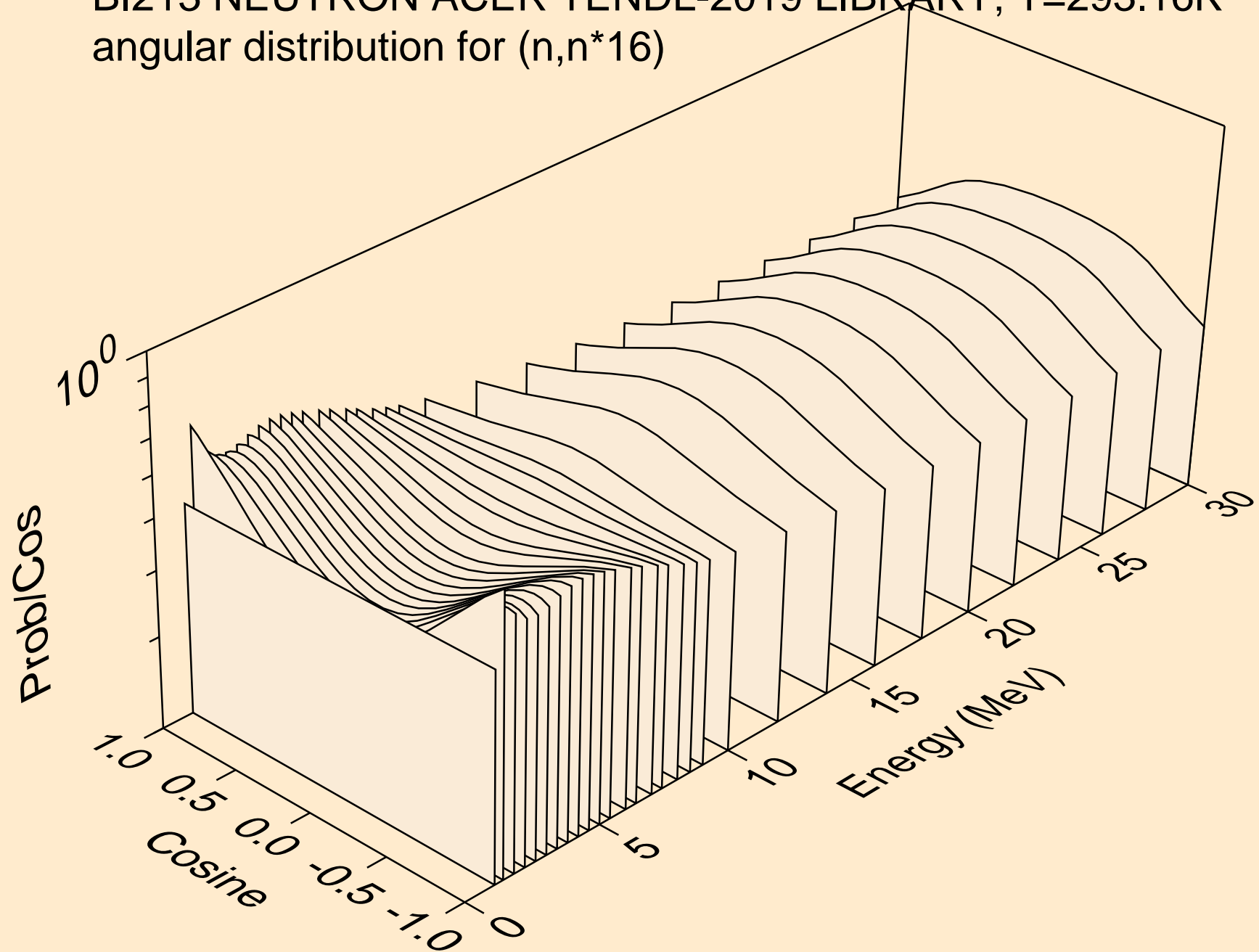
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angular distribution for (n,n\*14)



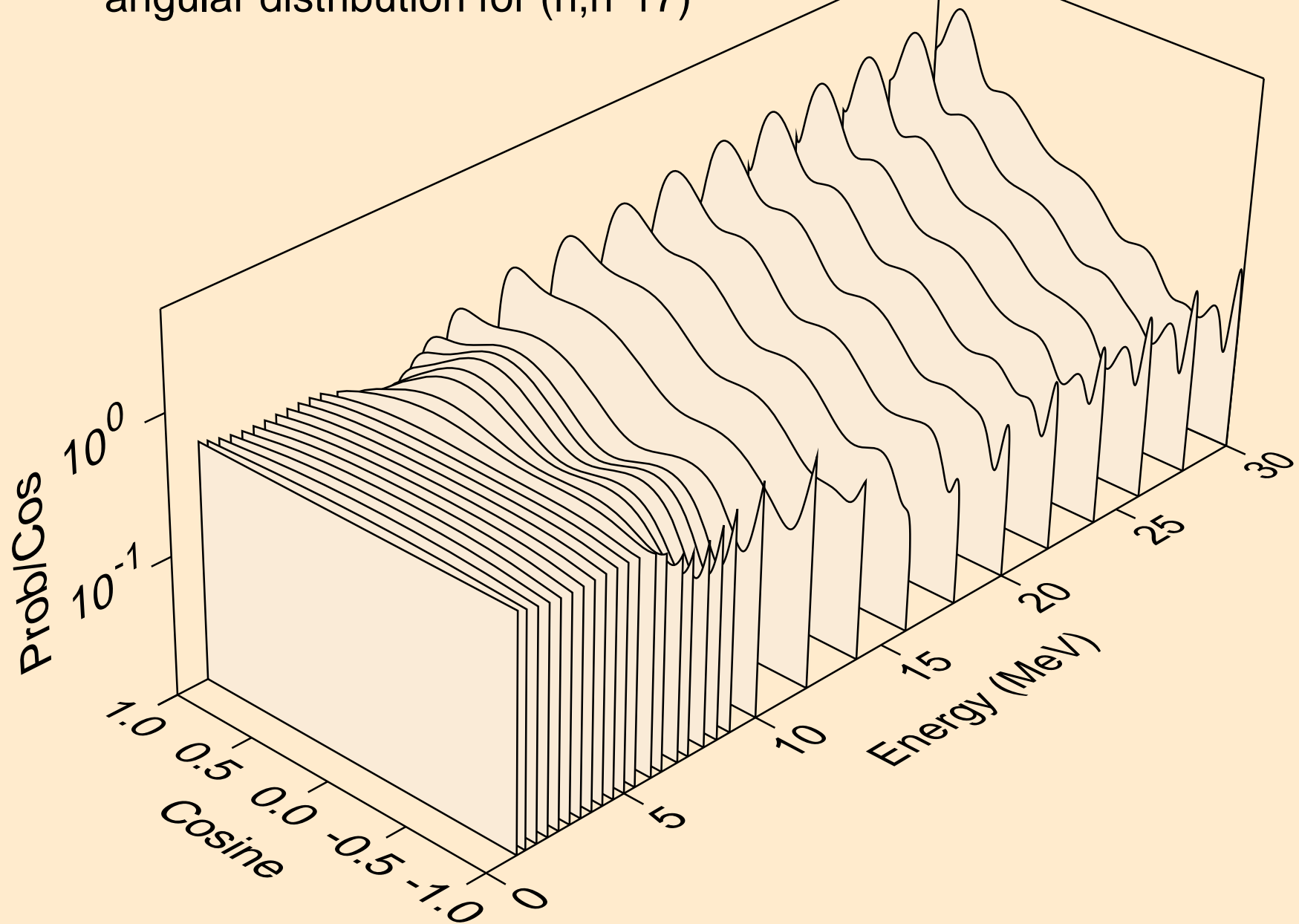
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angular distribution for (n,n\*15)



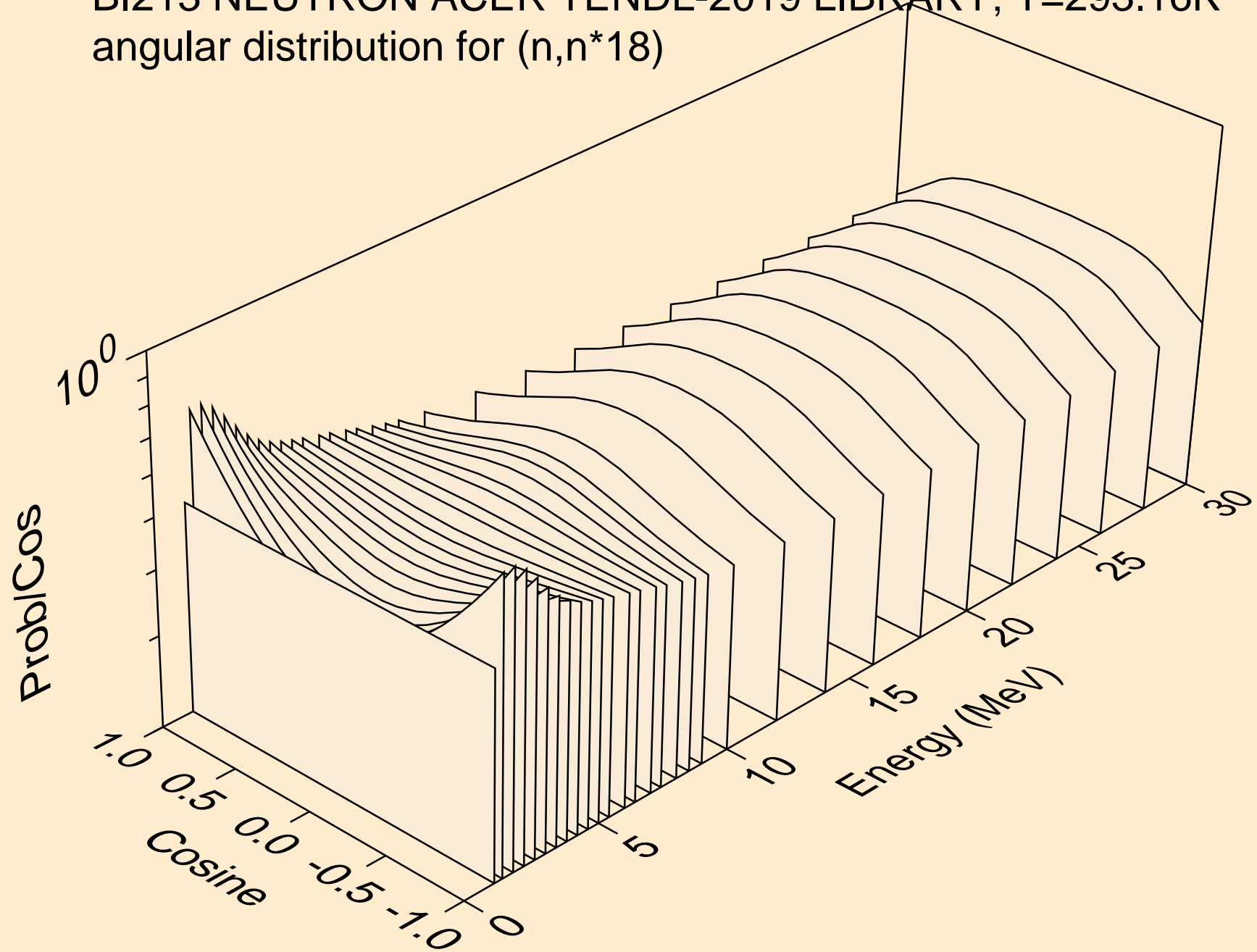
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

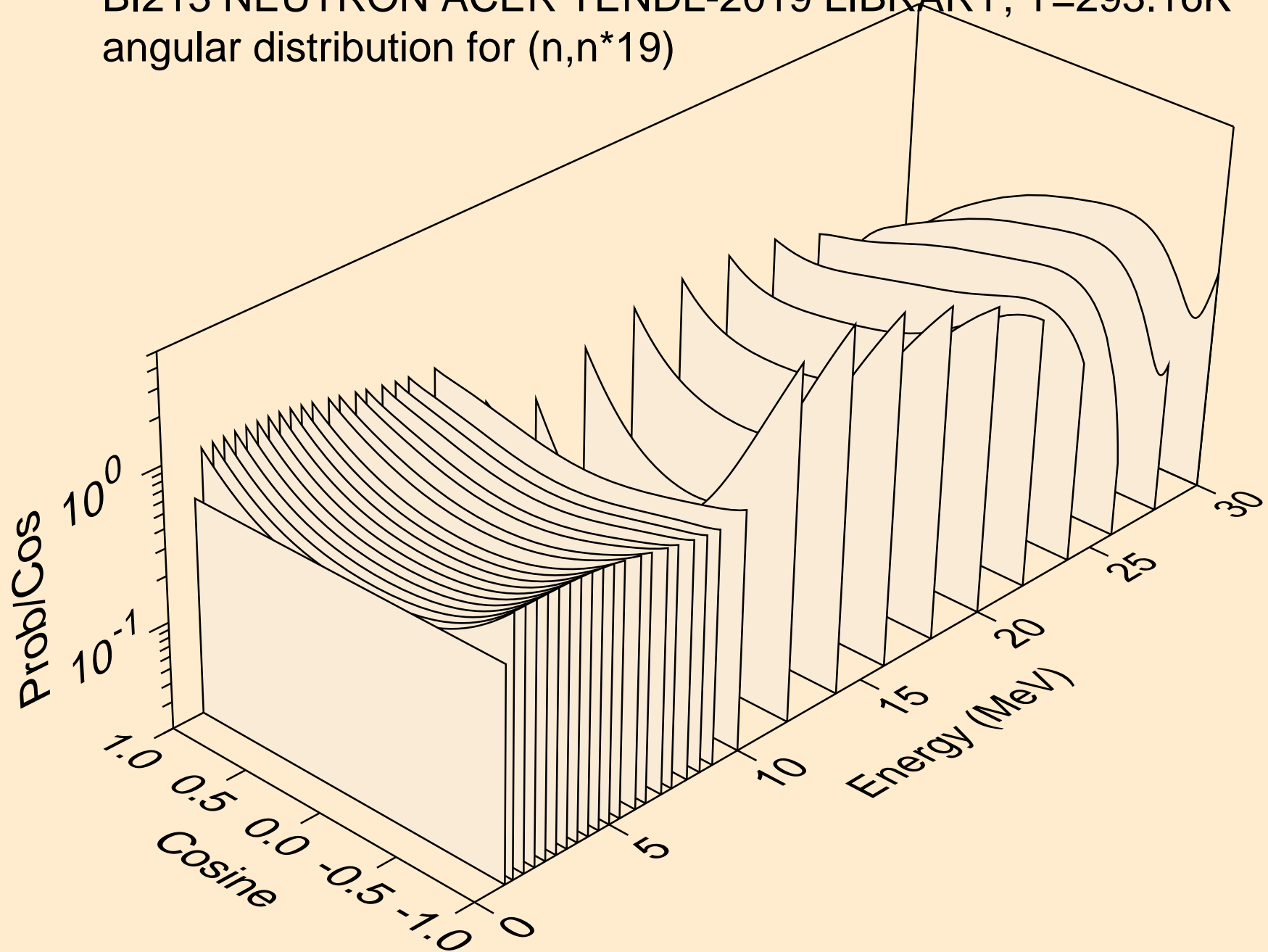


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)

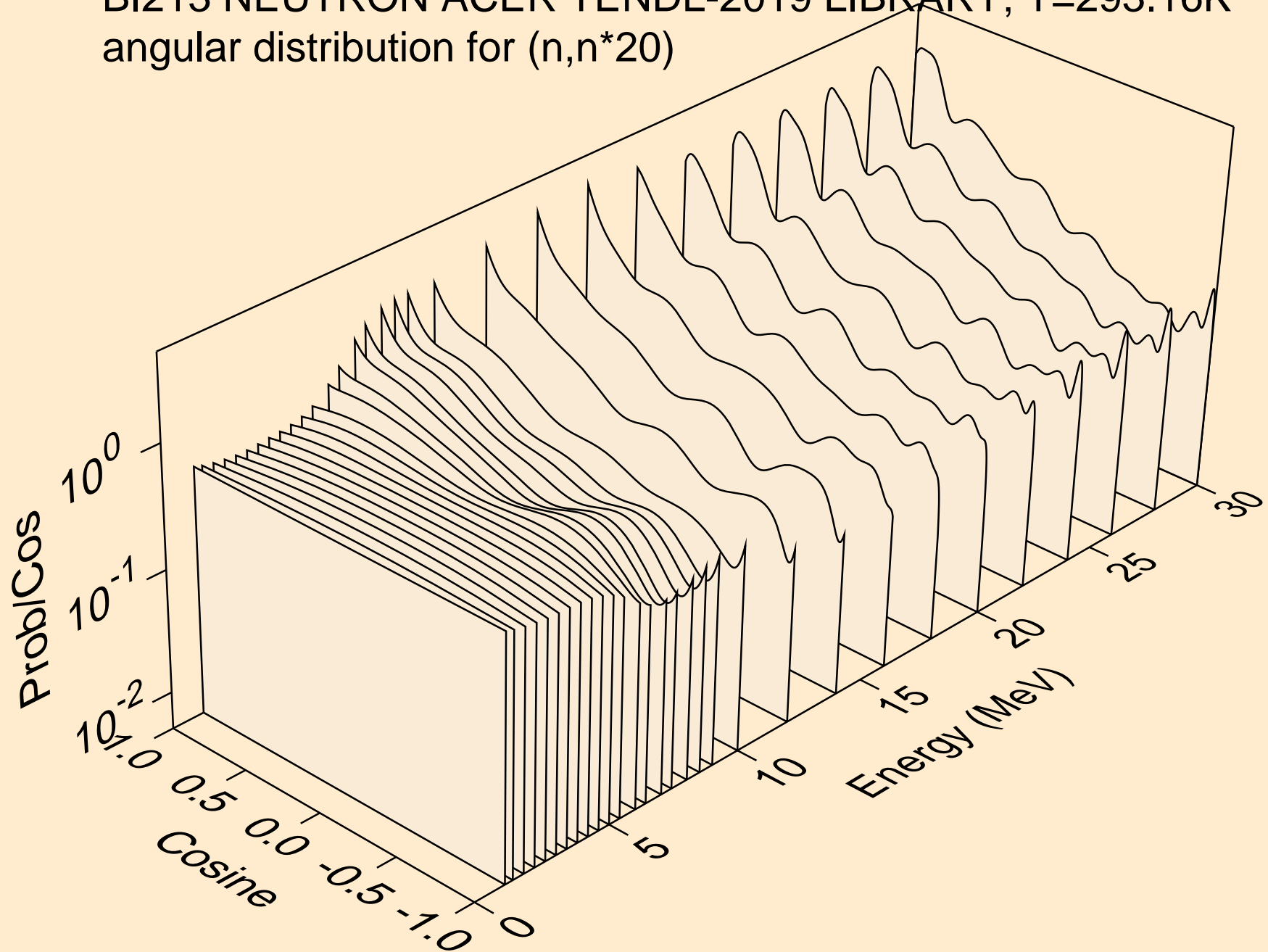




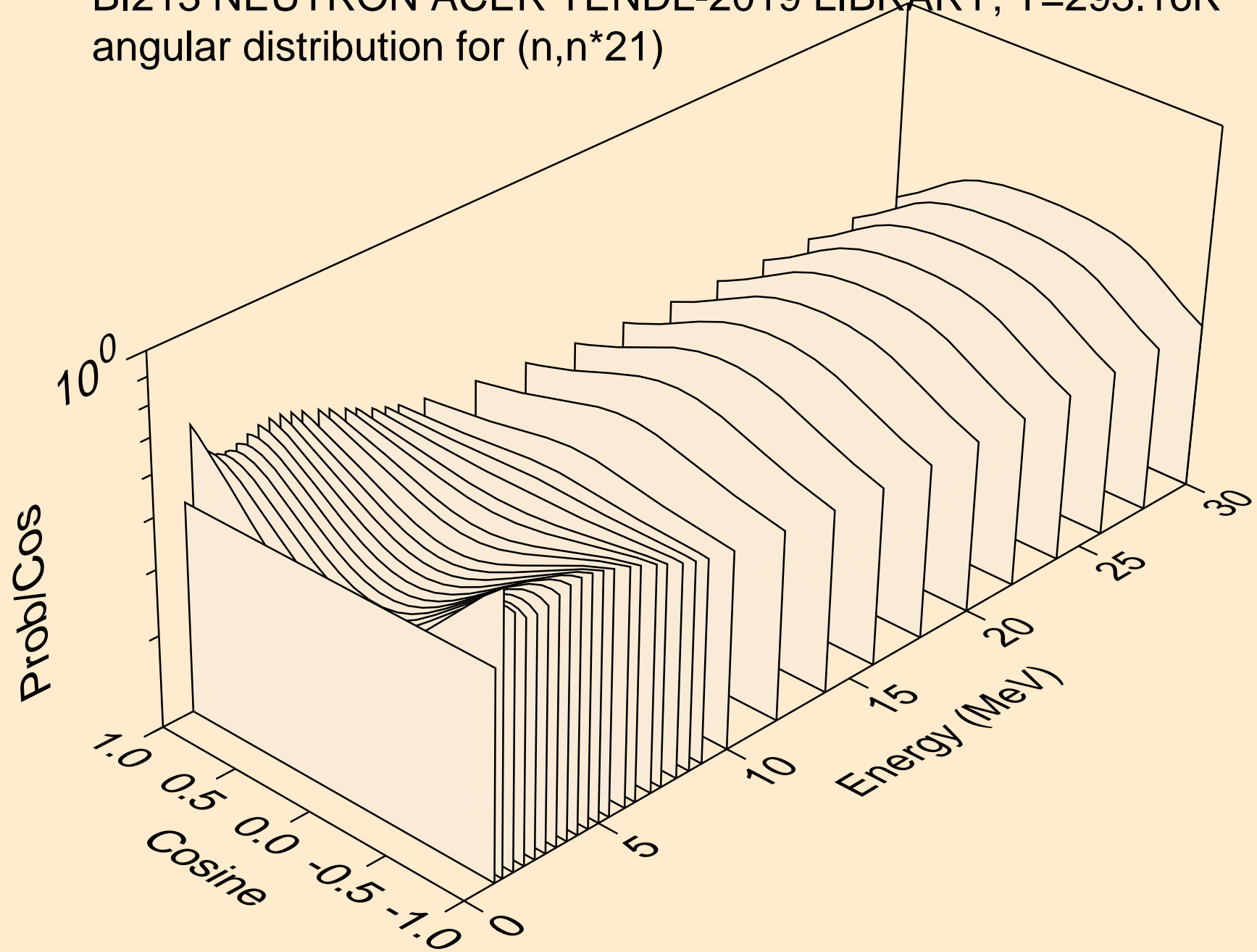
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)



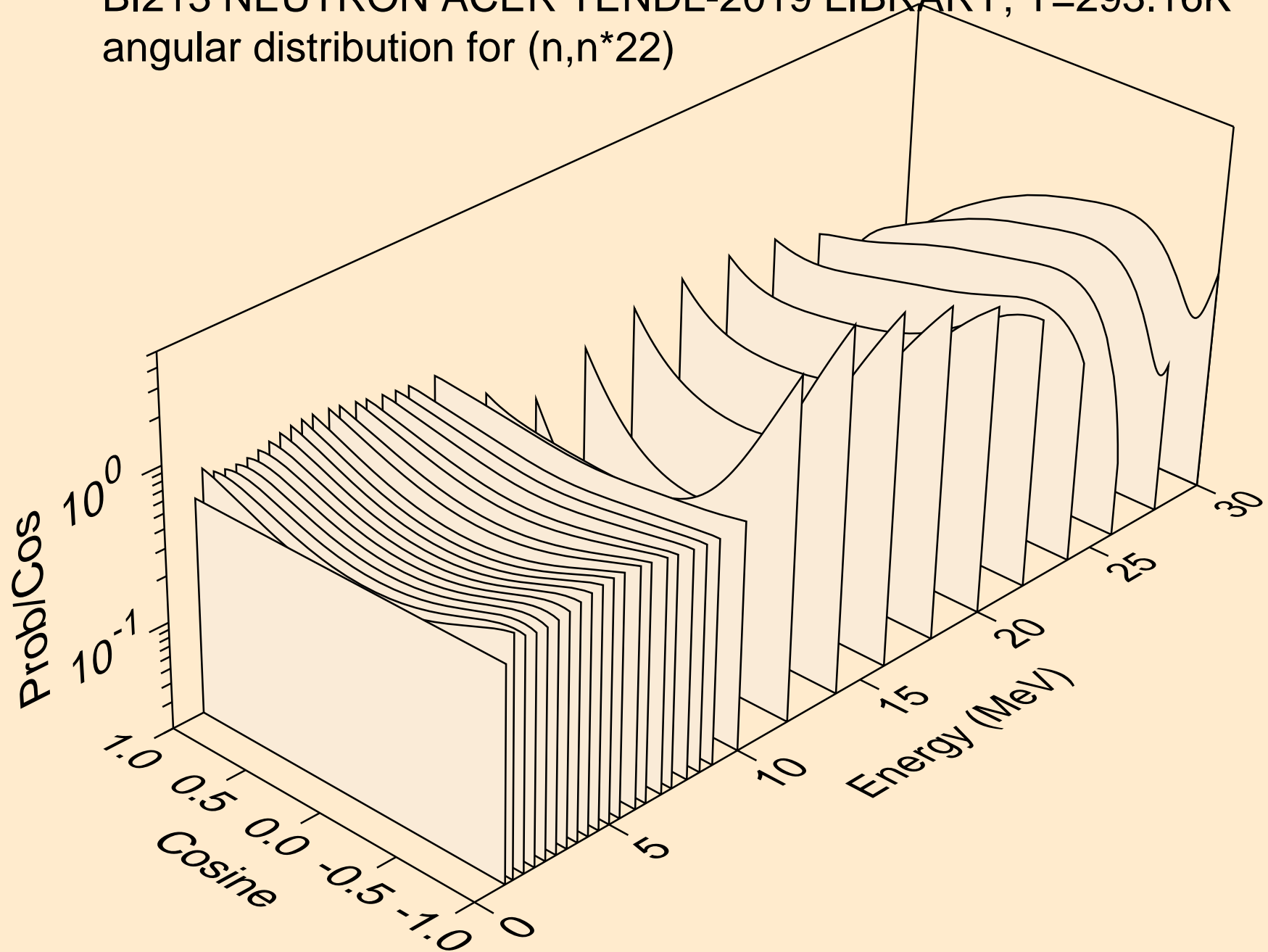
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angular distribution for (n,n\*20)



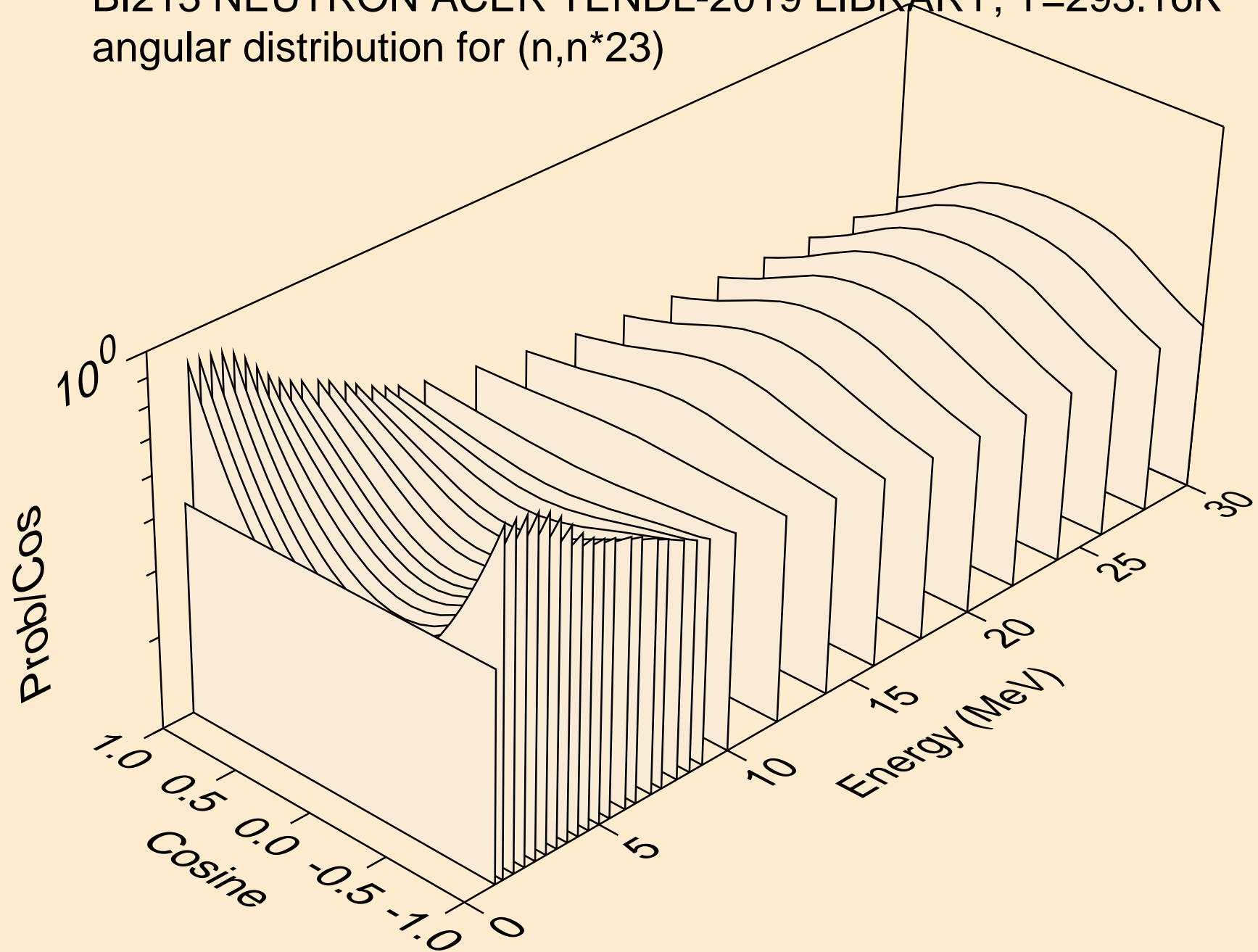
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*21)



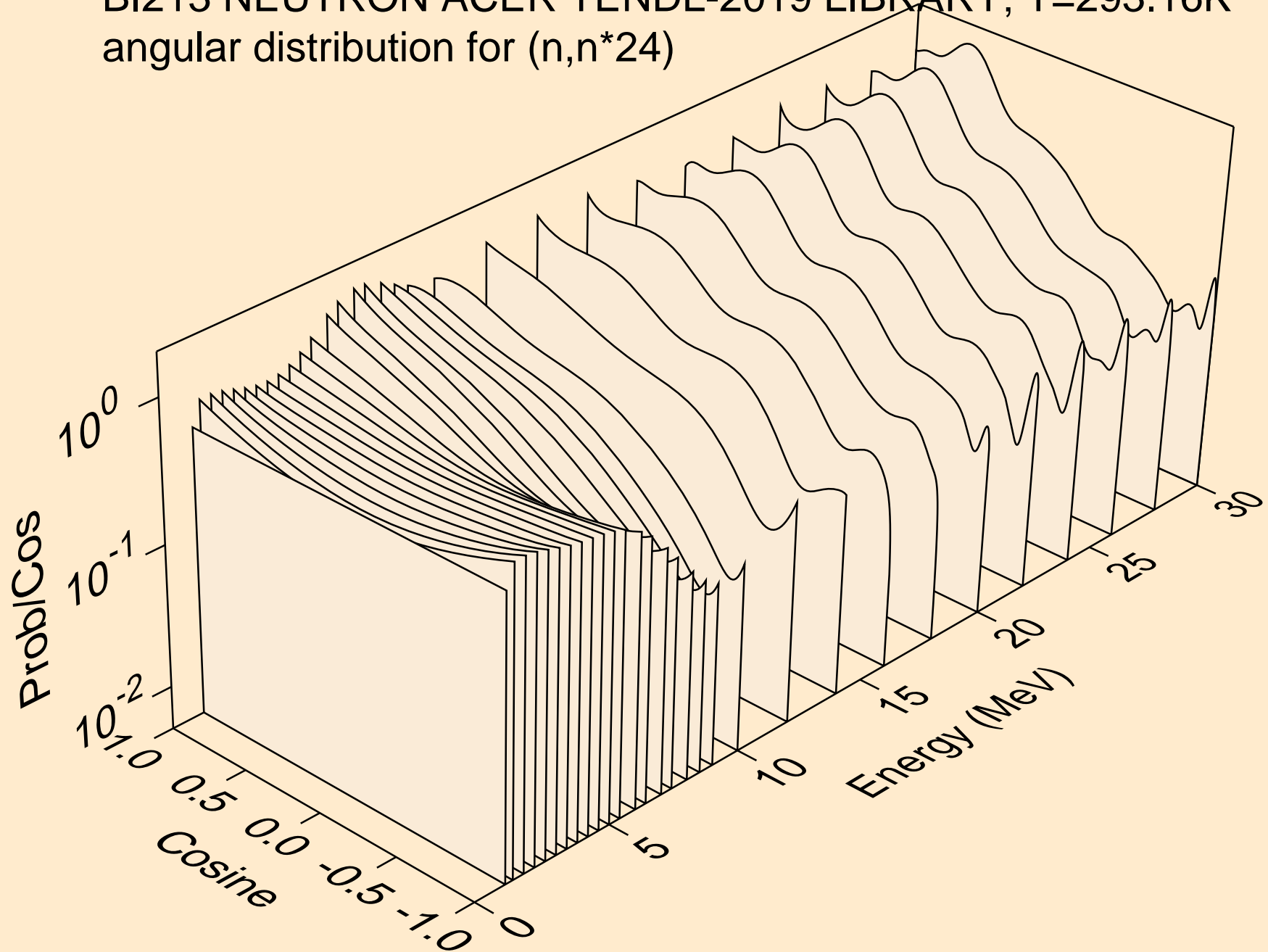
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)



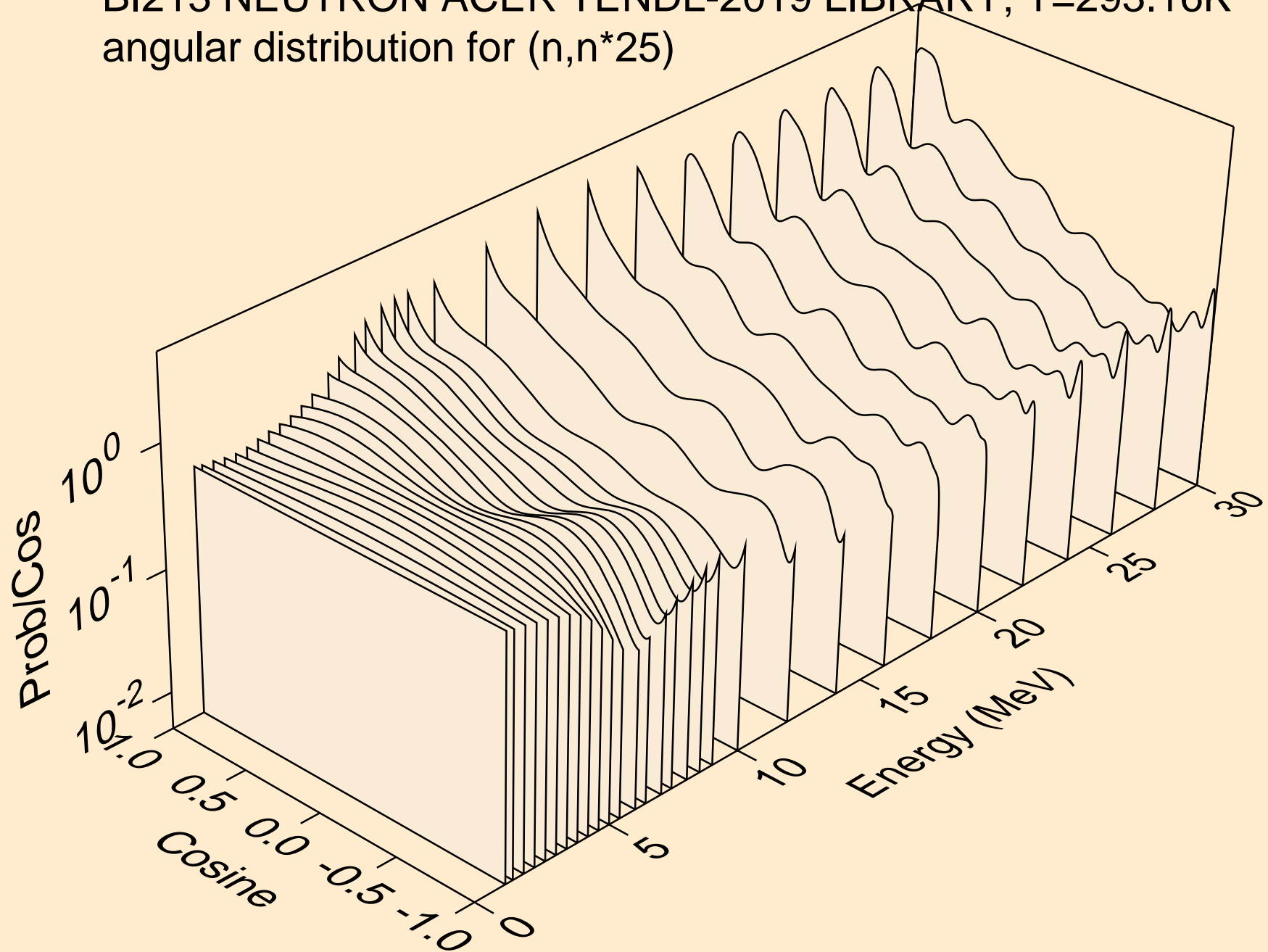
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angular distribution for (n,n\*23)



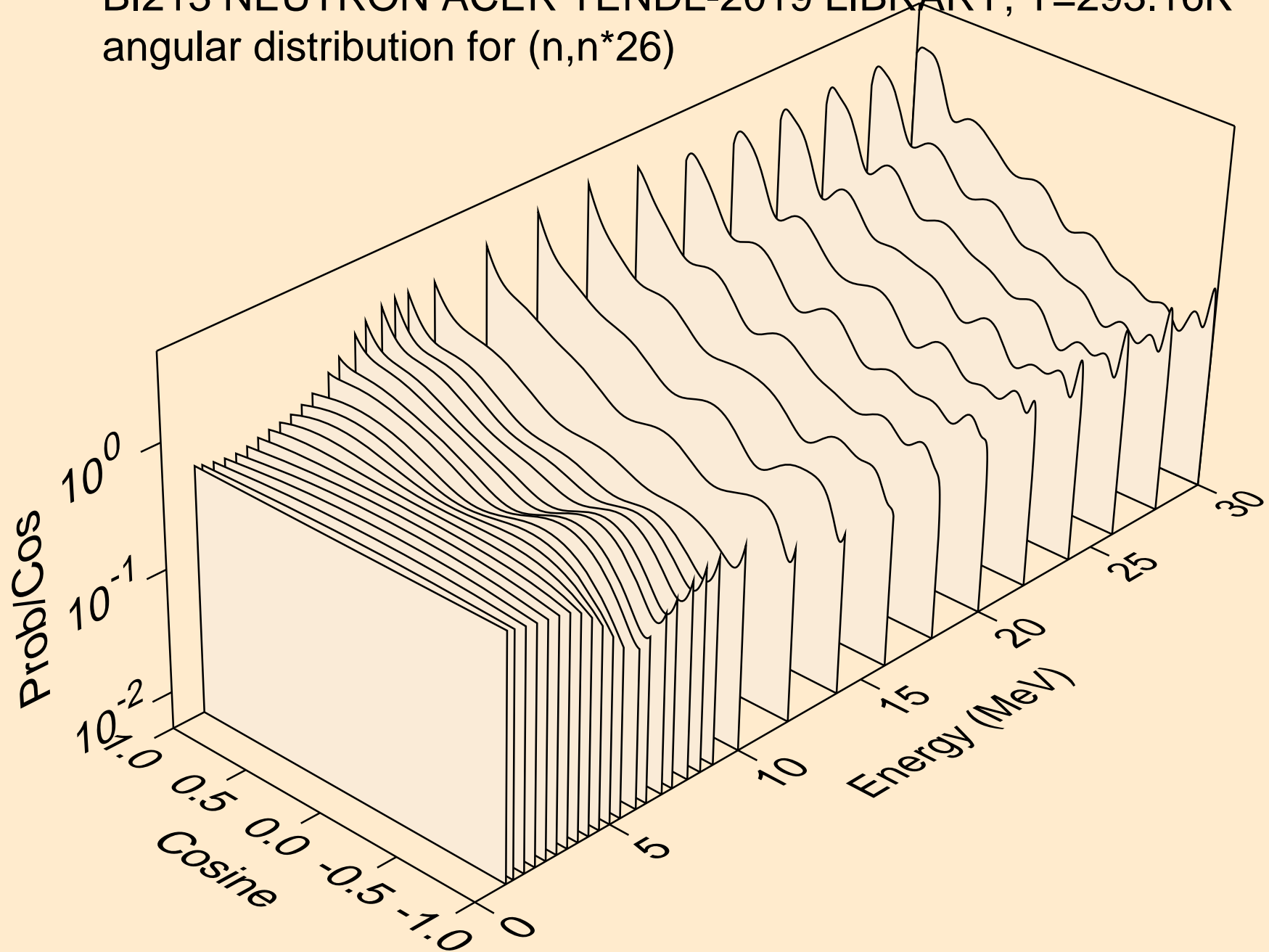
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)

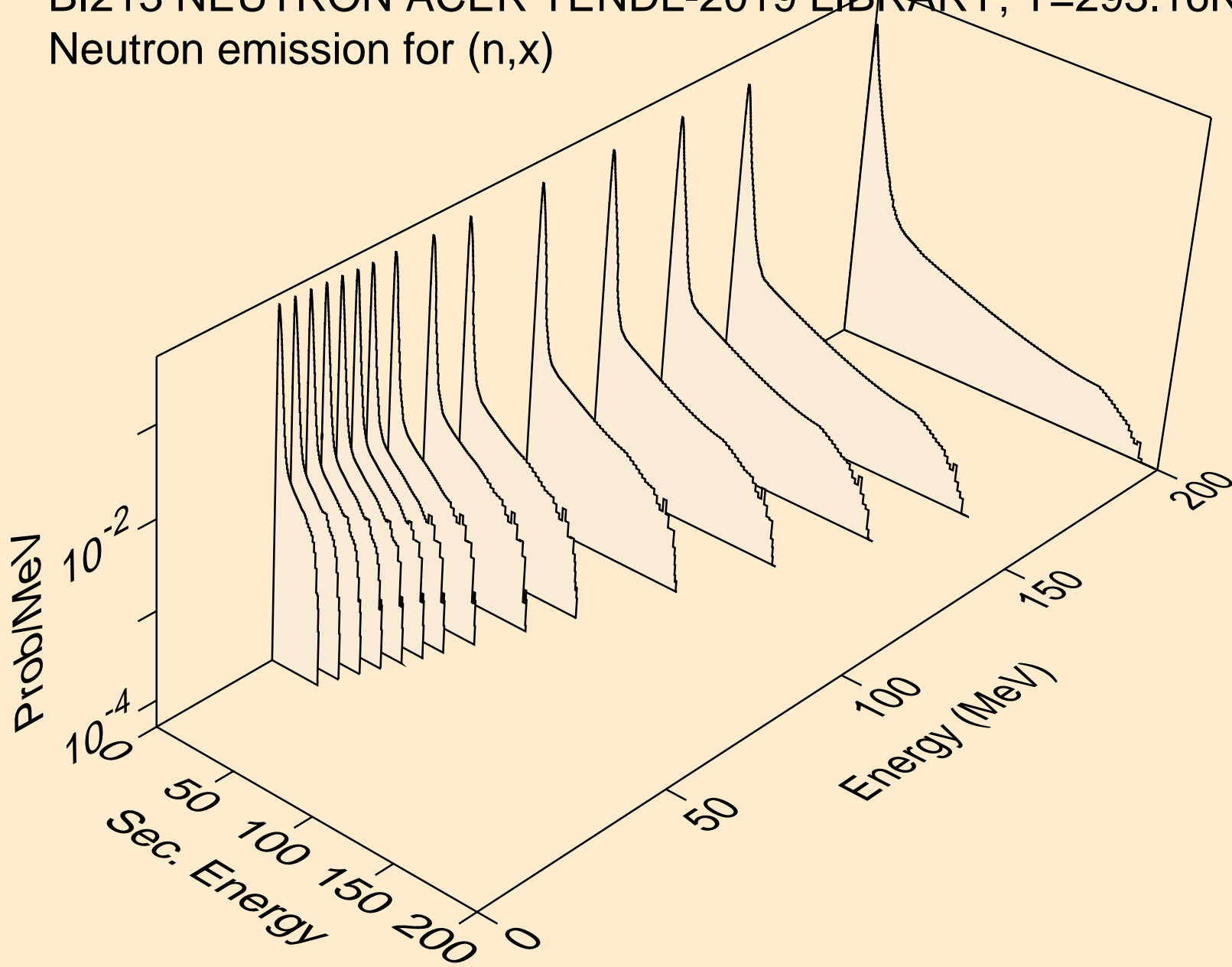


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)

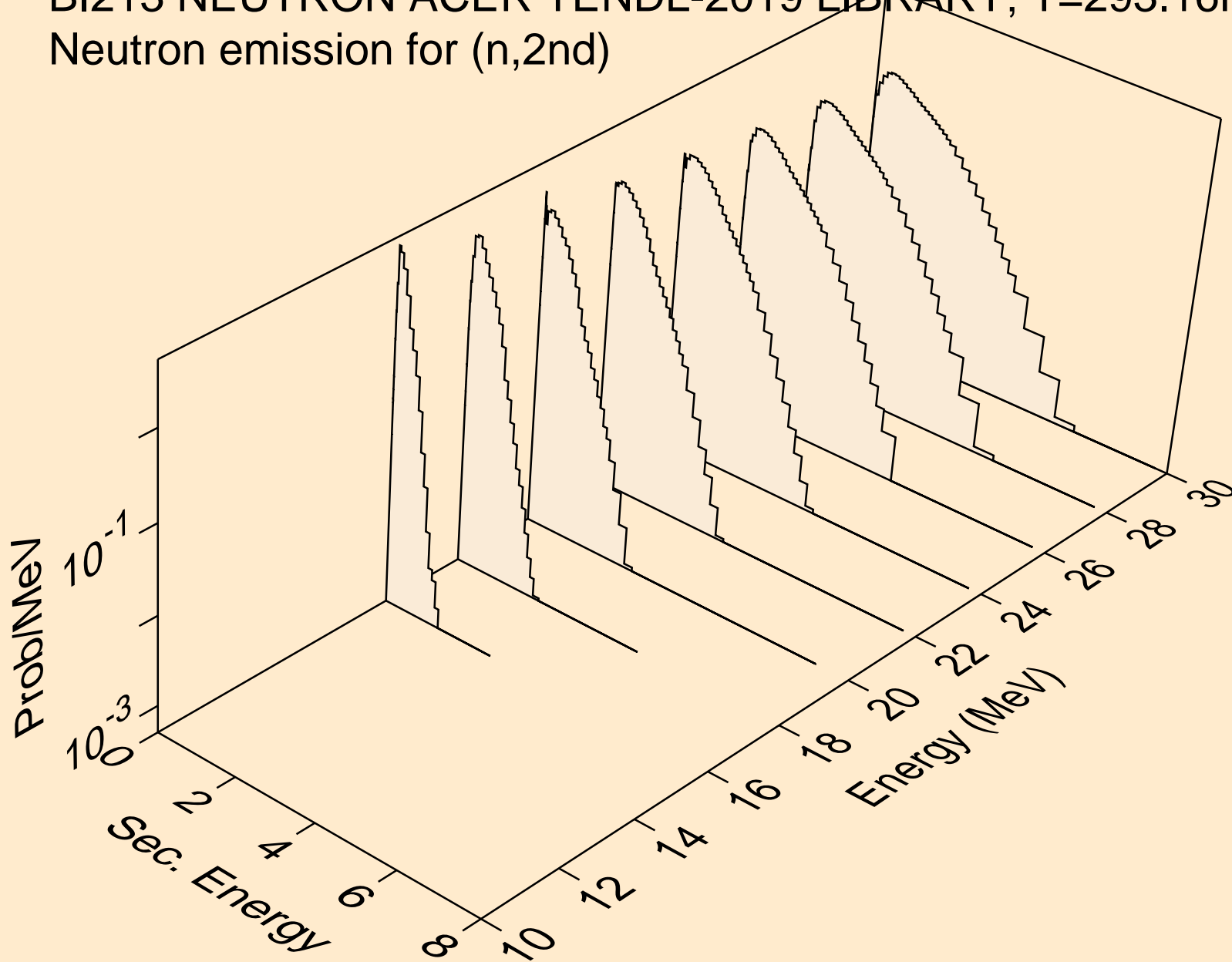




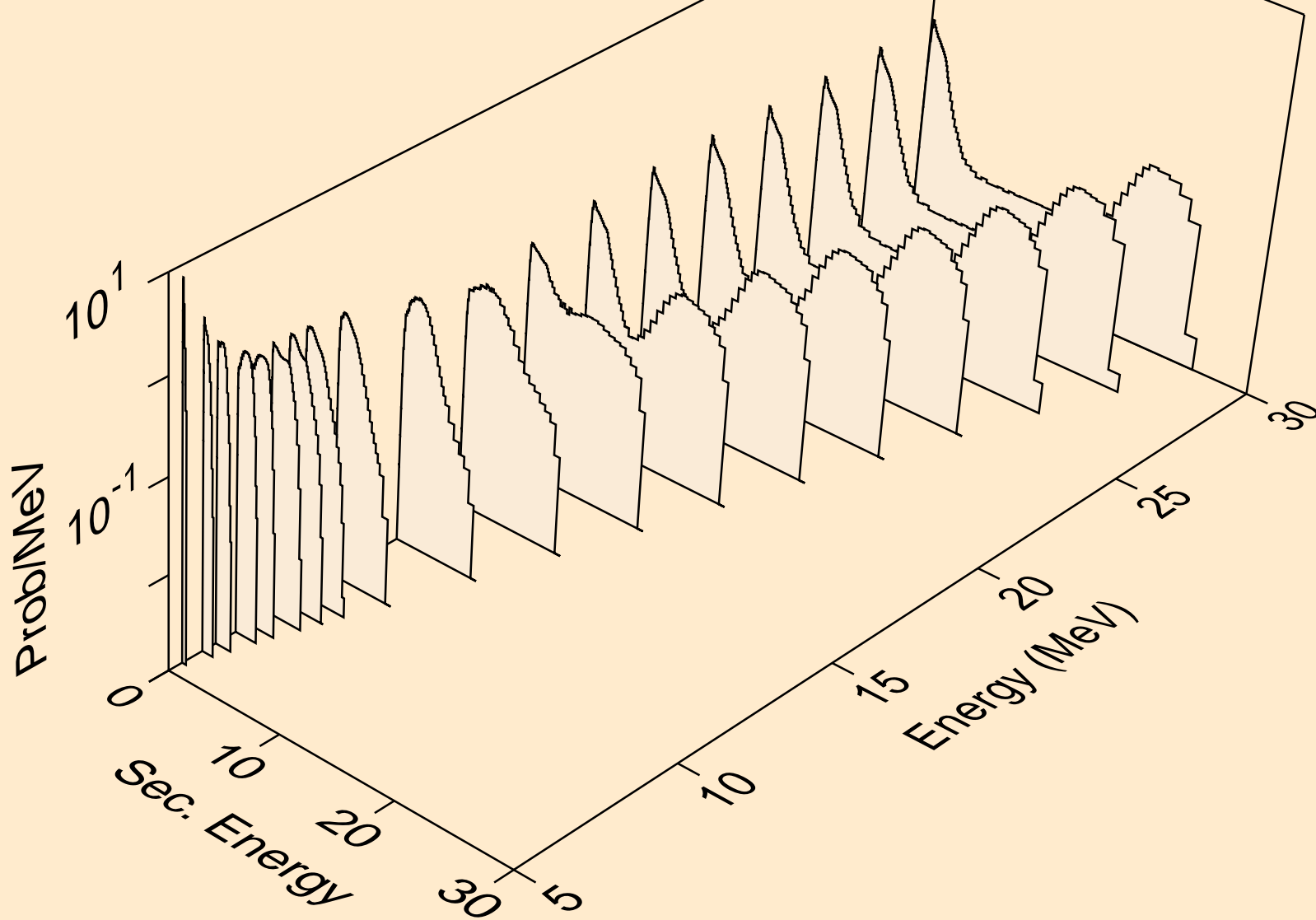
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



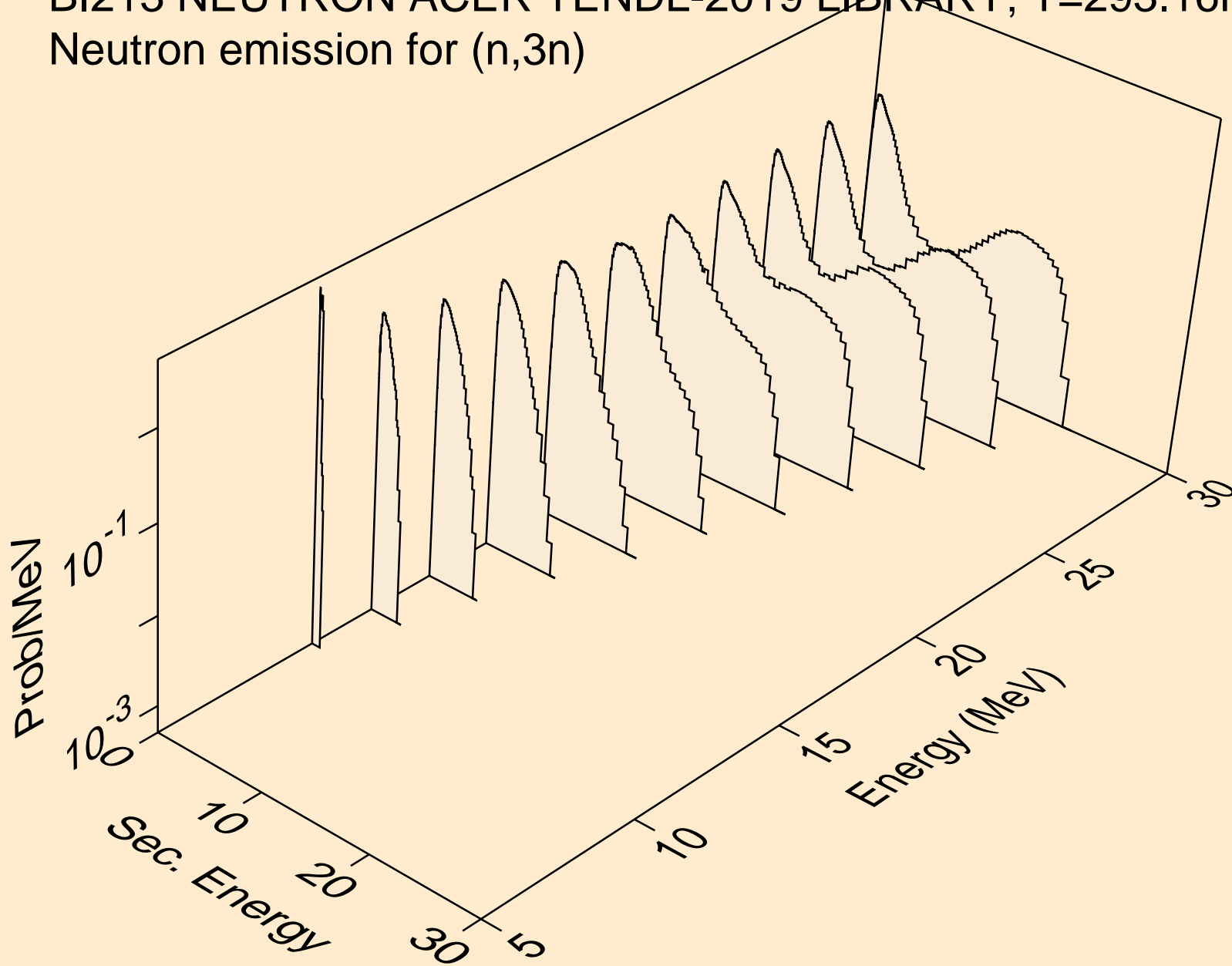
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



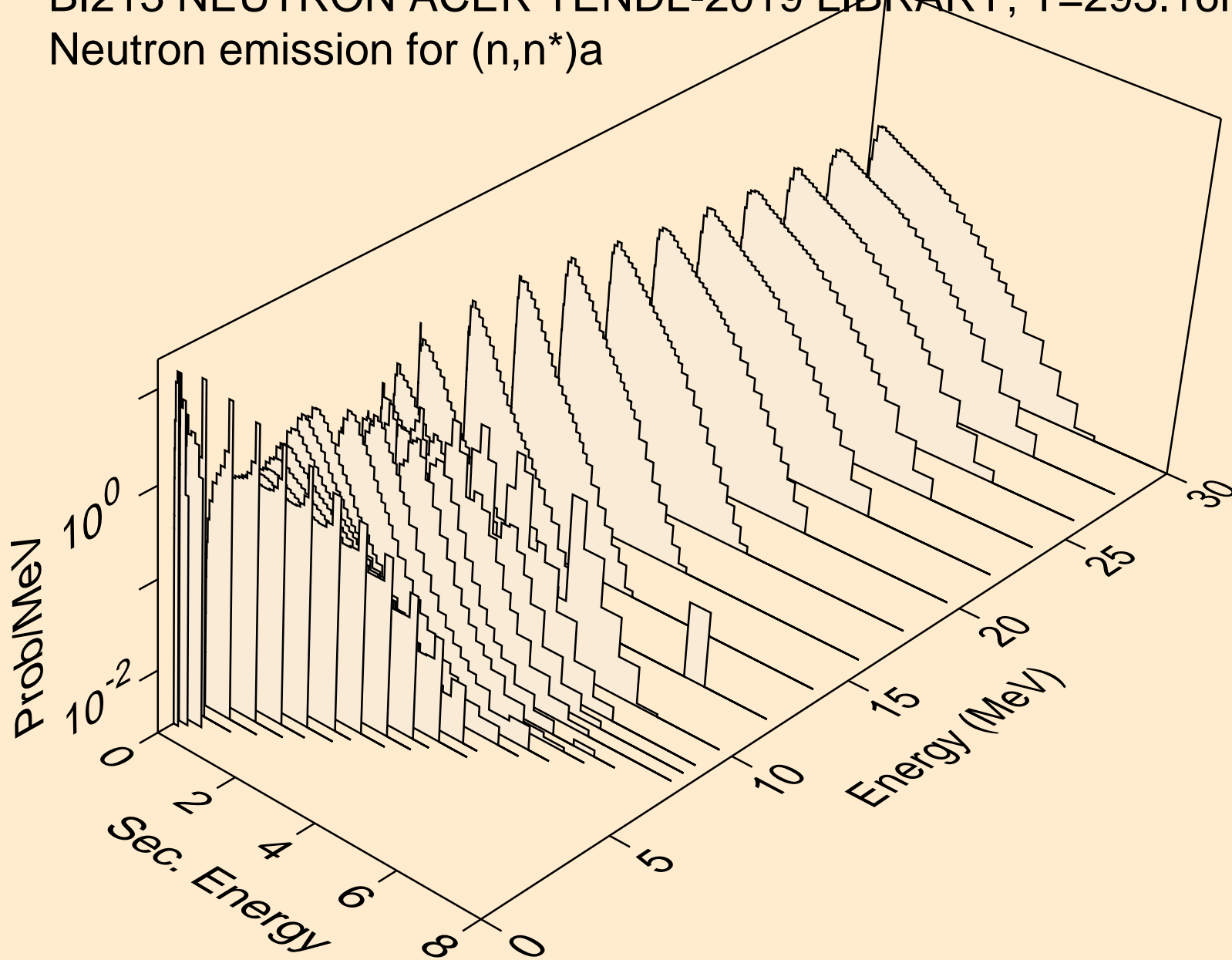
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



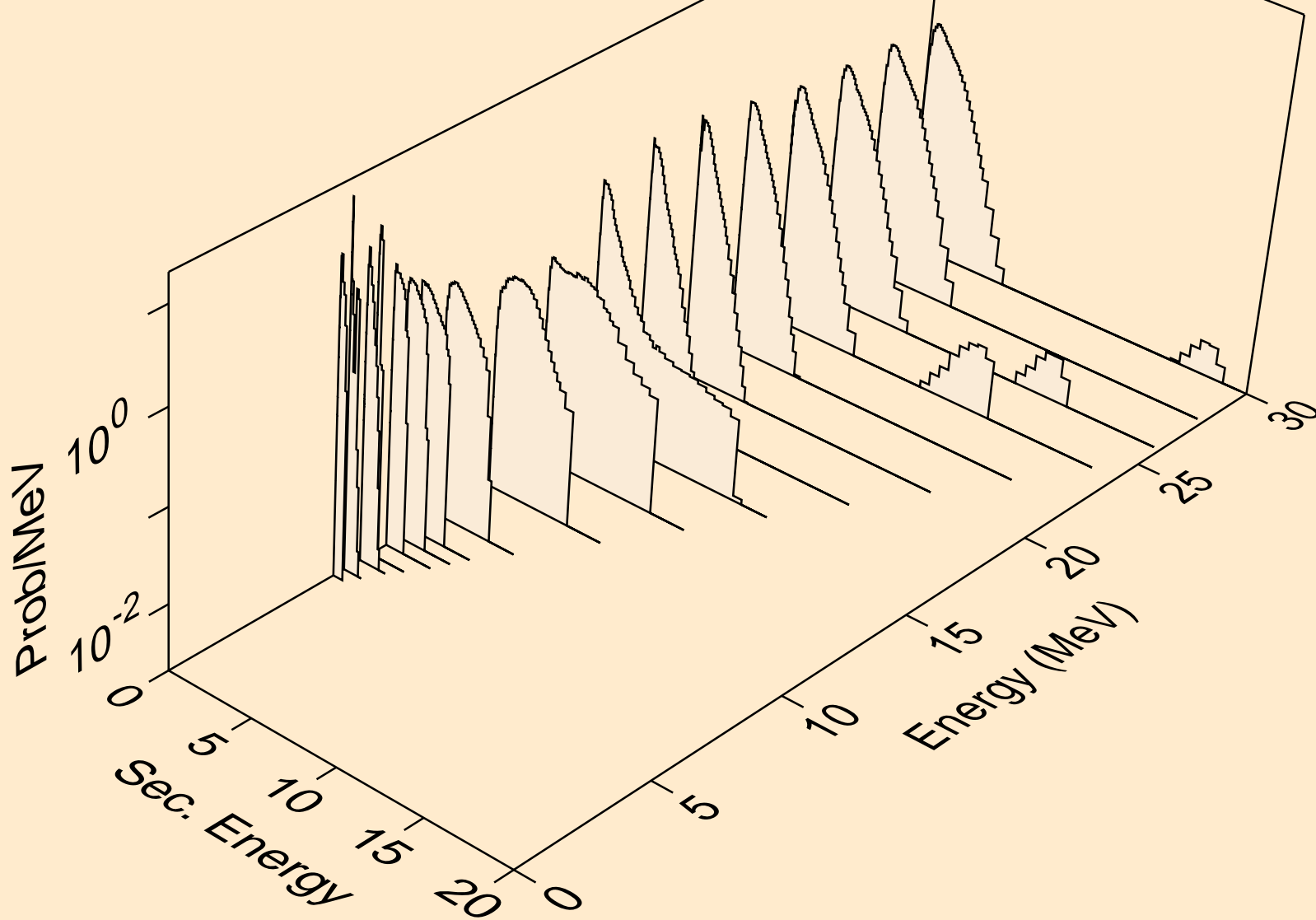
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



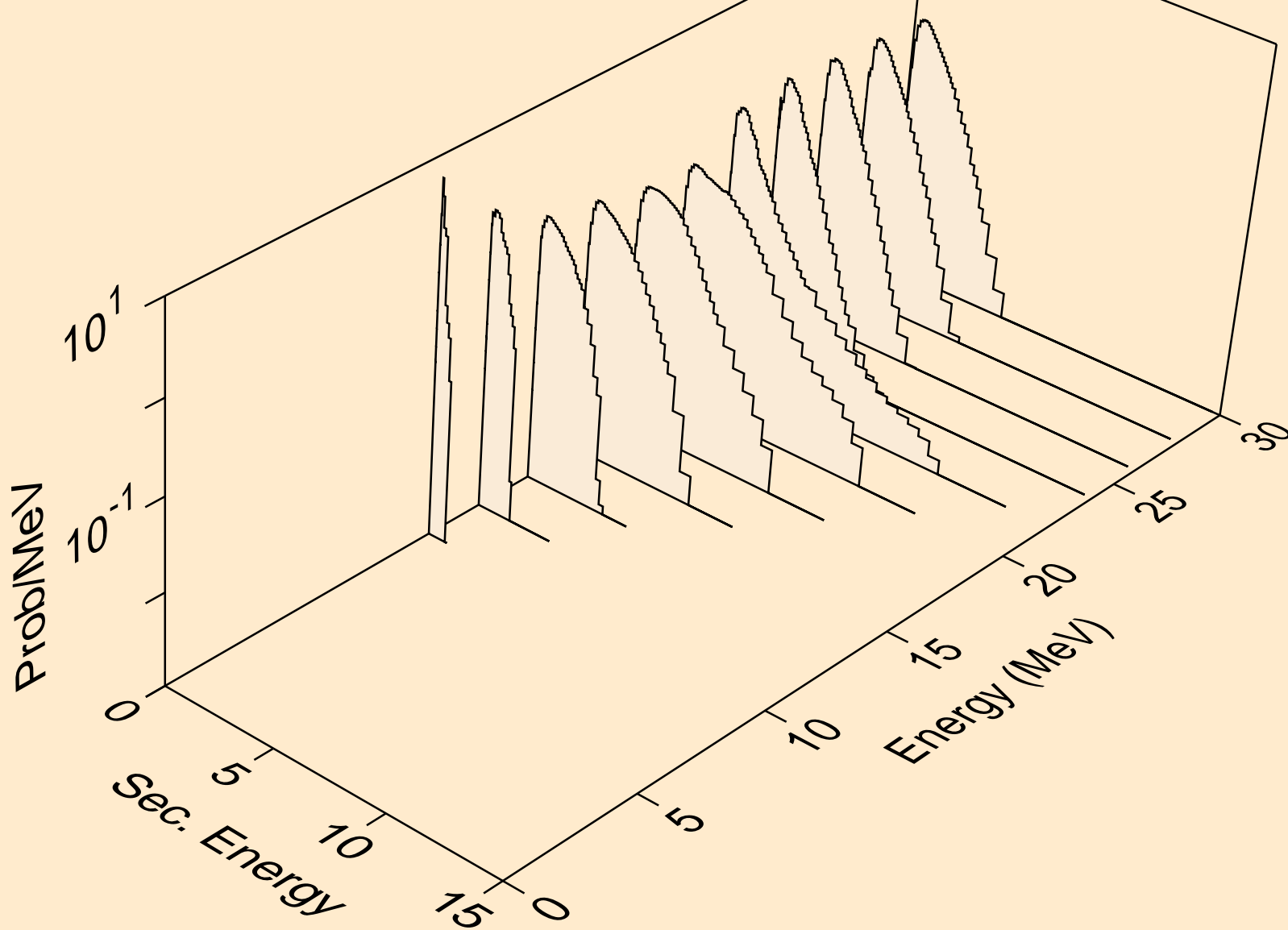
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



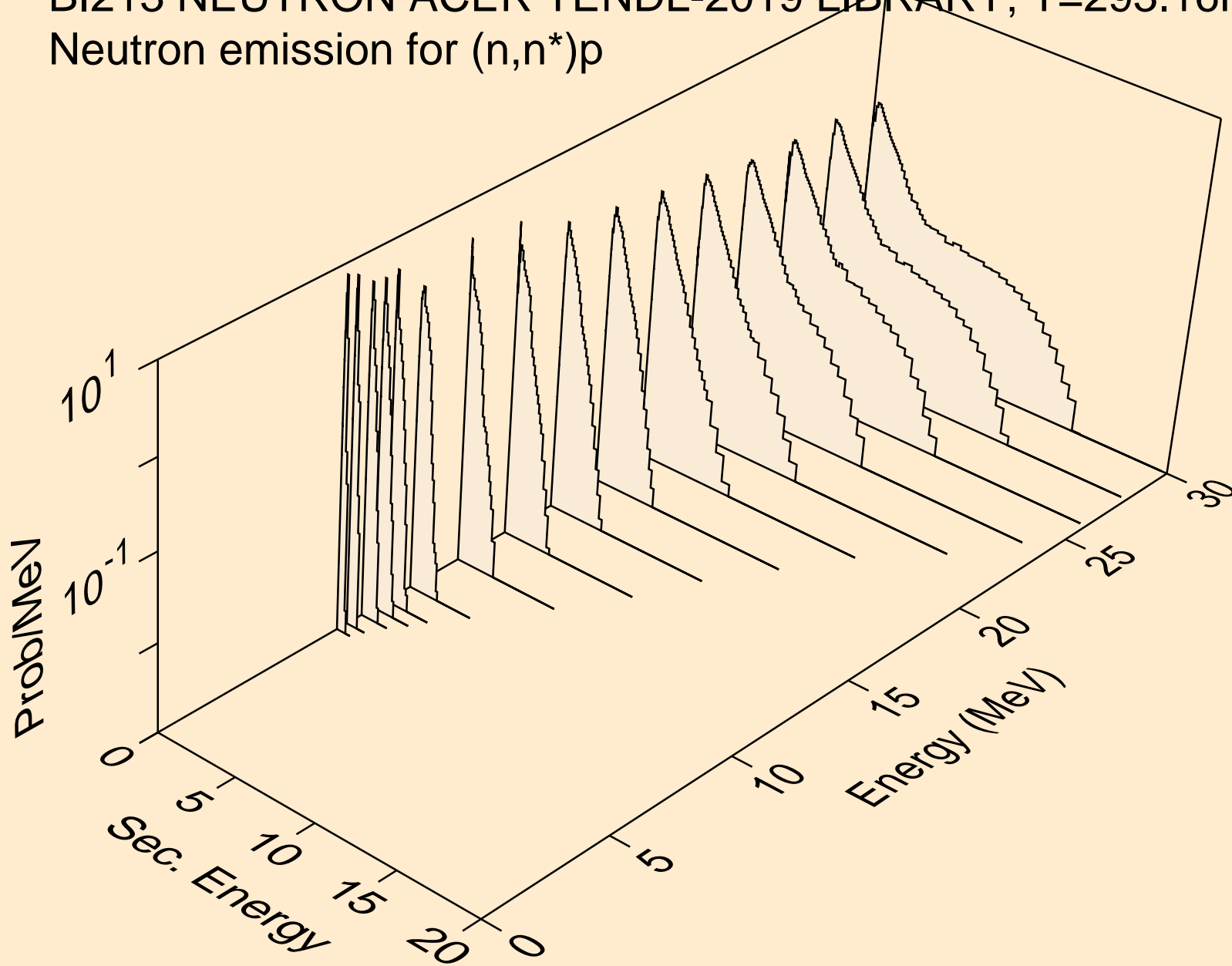
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a

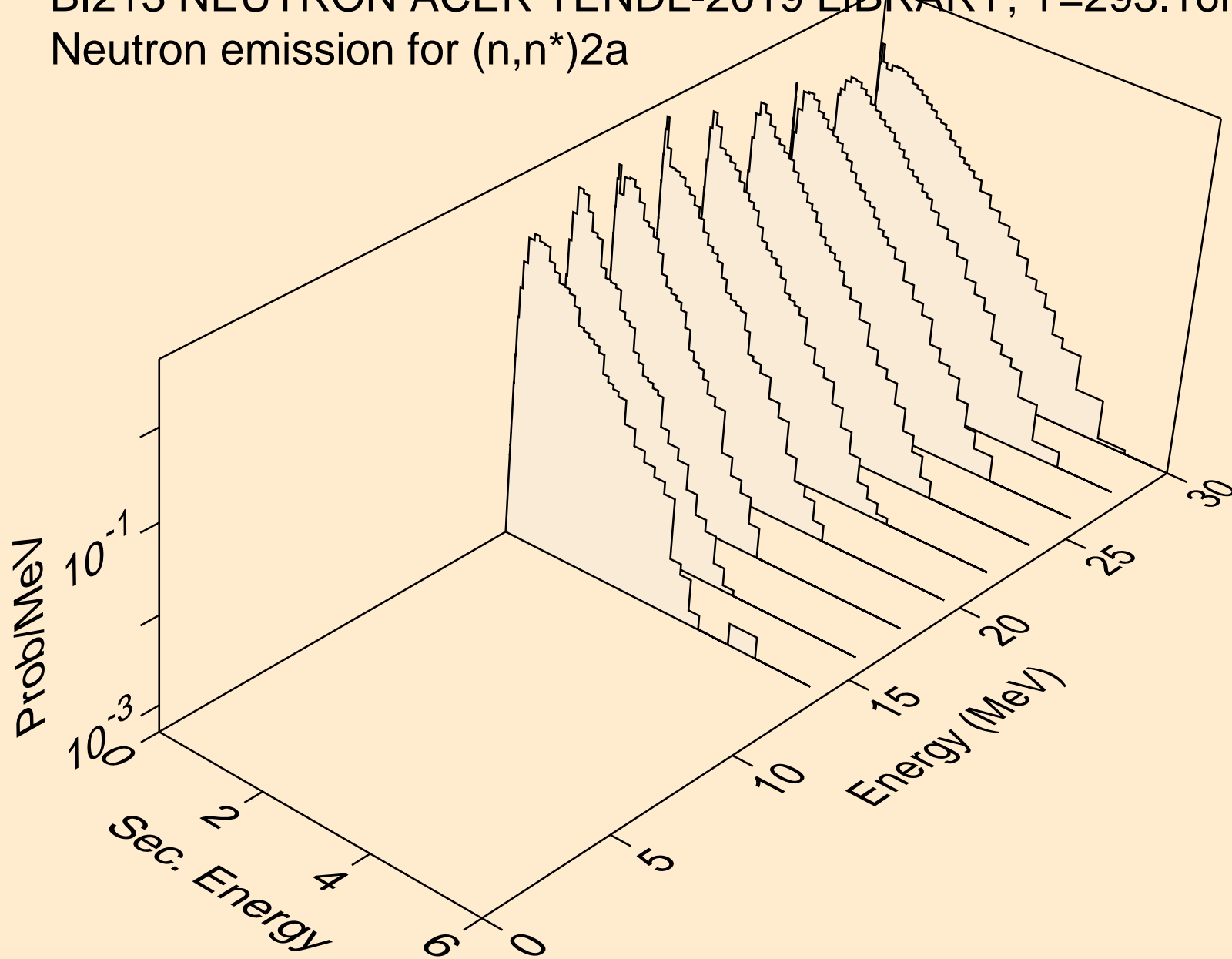


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p

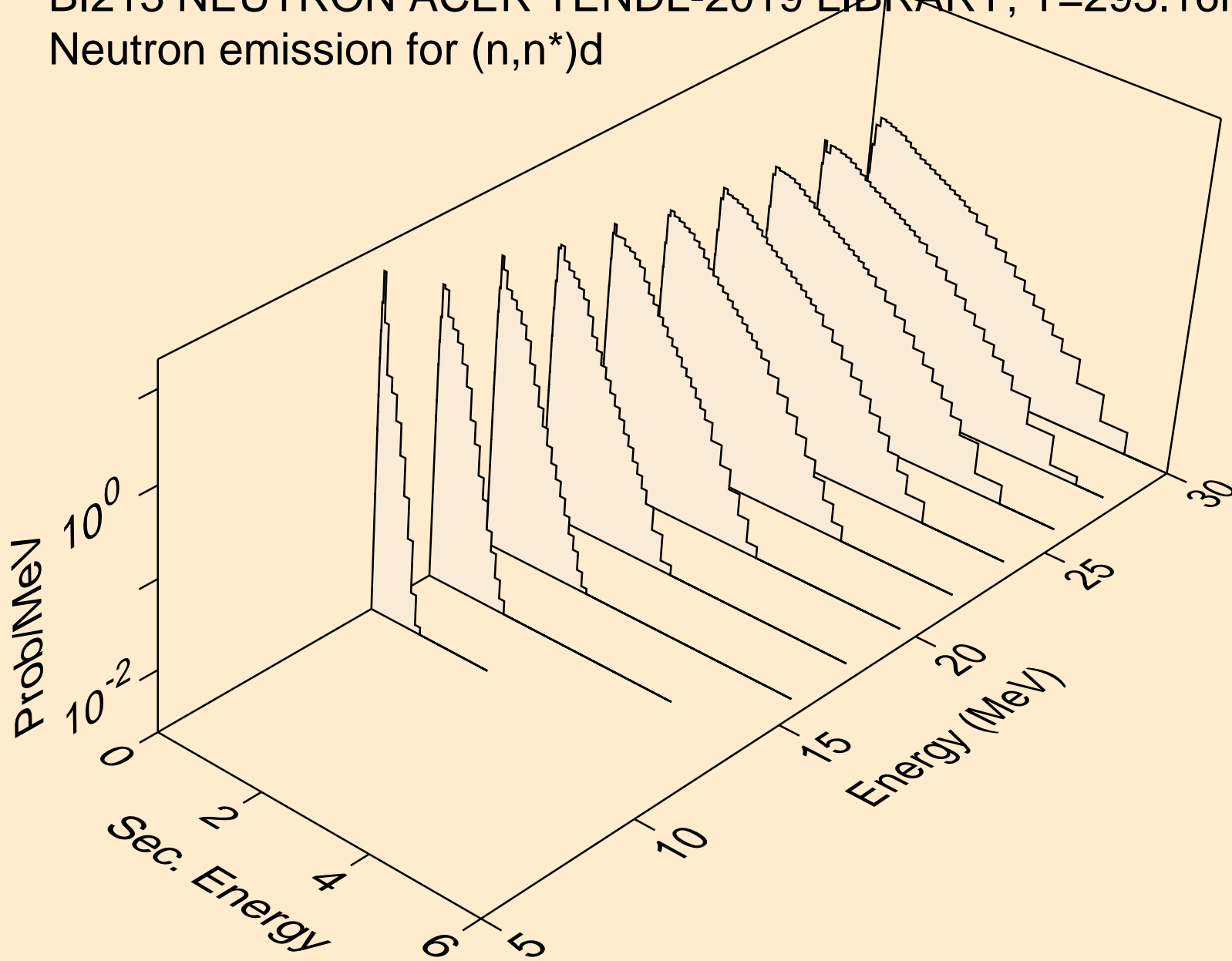




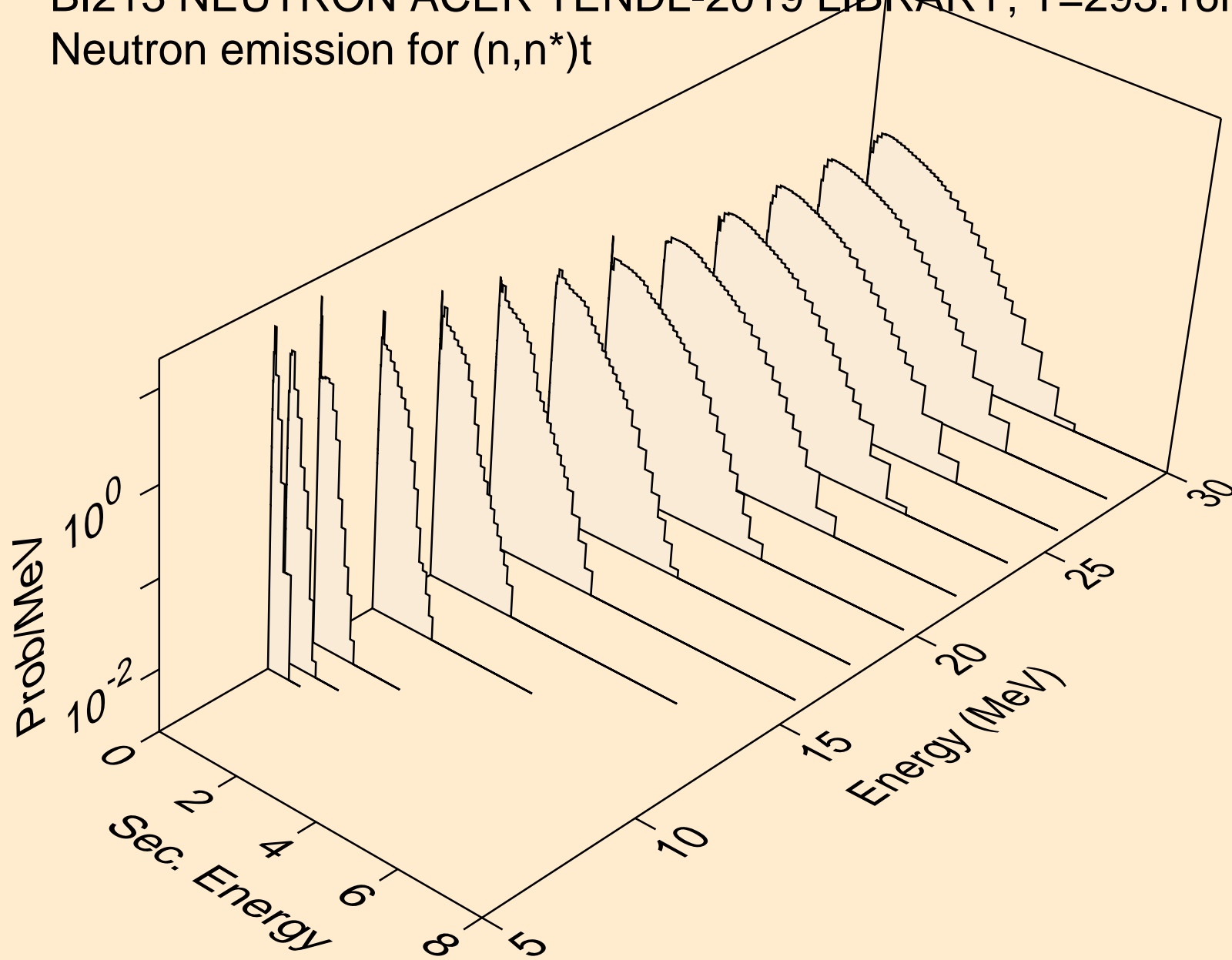
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



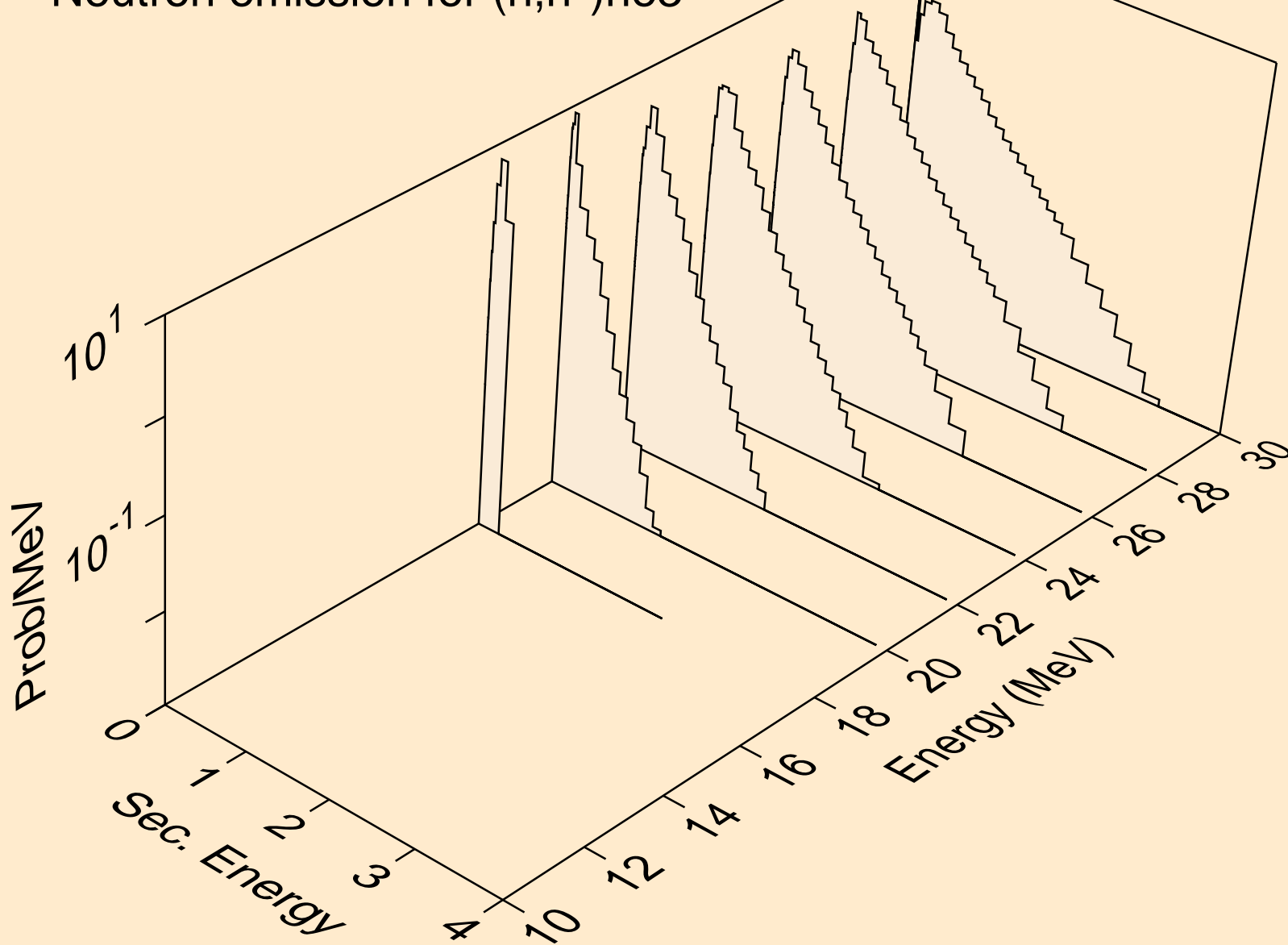
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



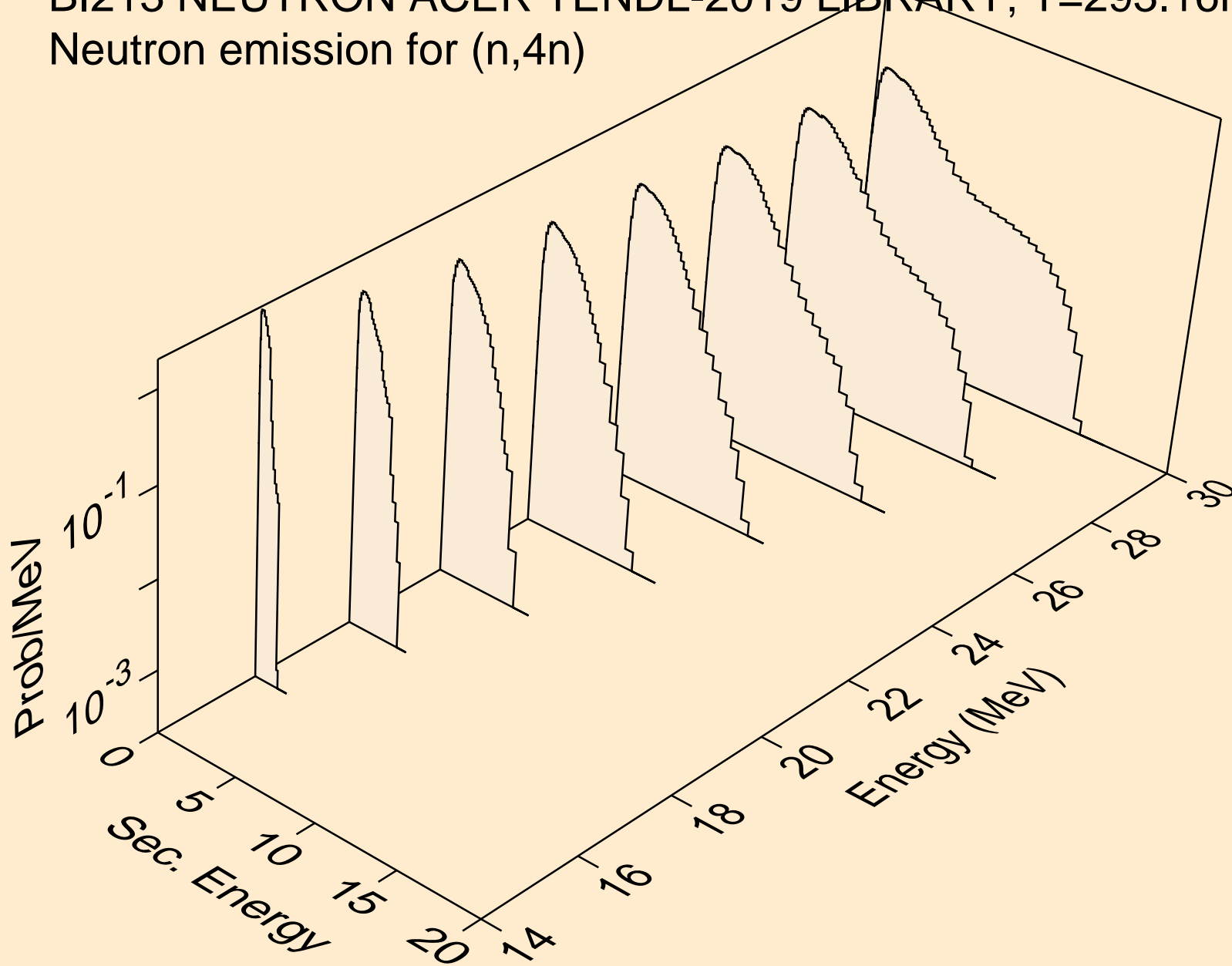
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



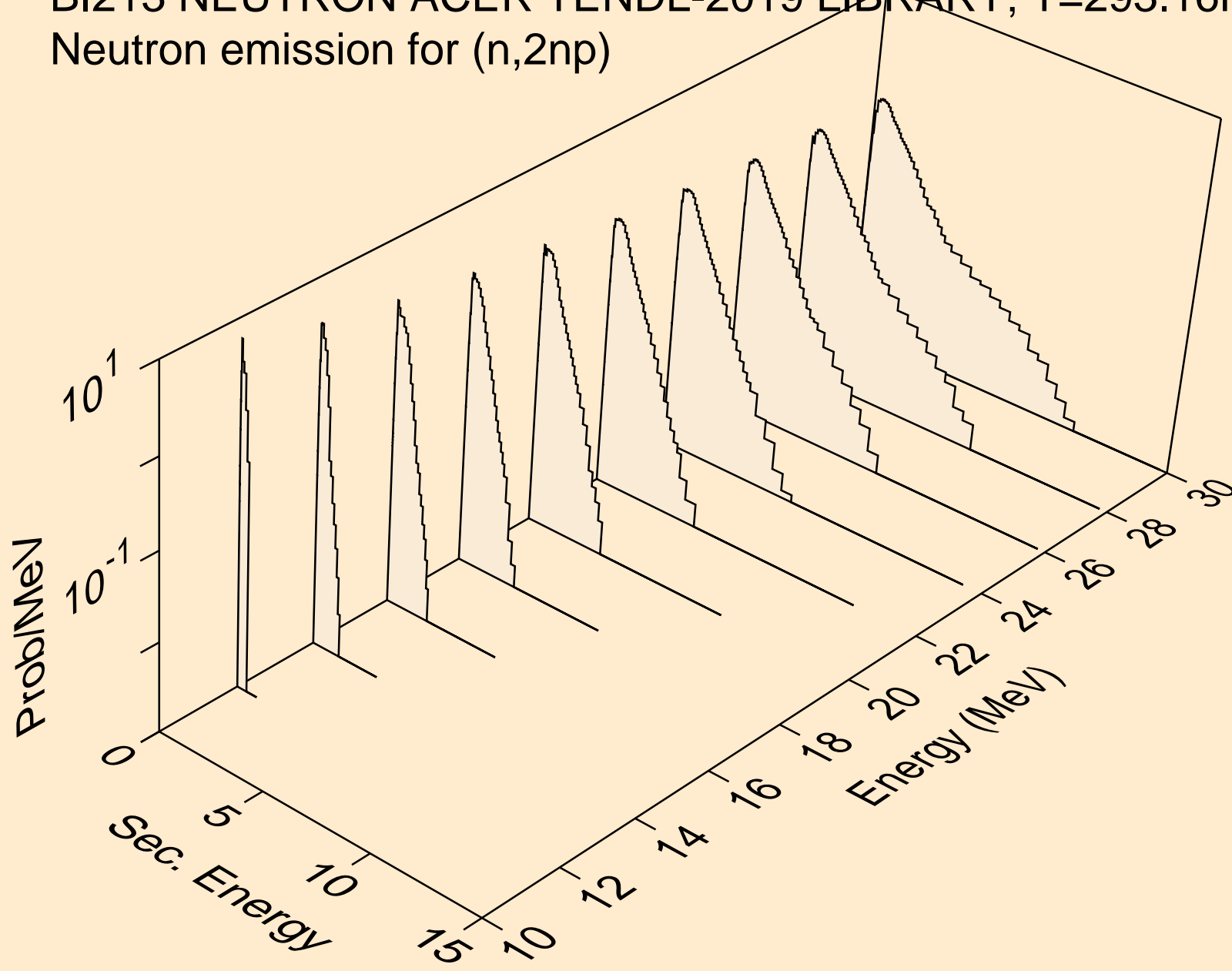
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



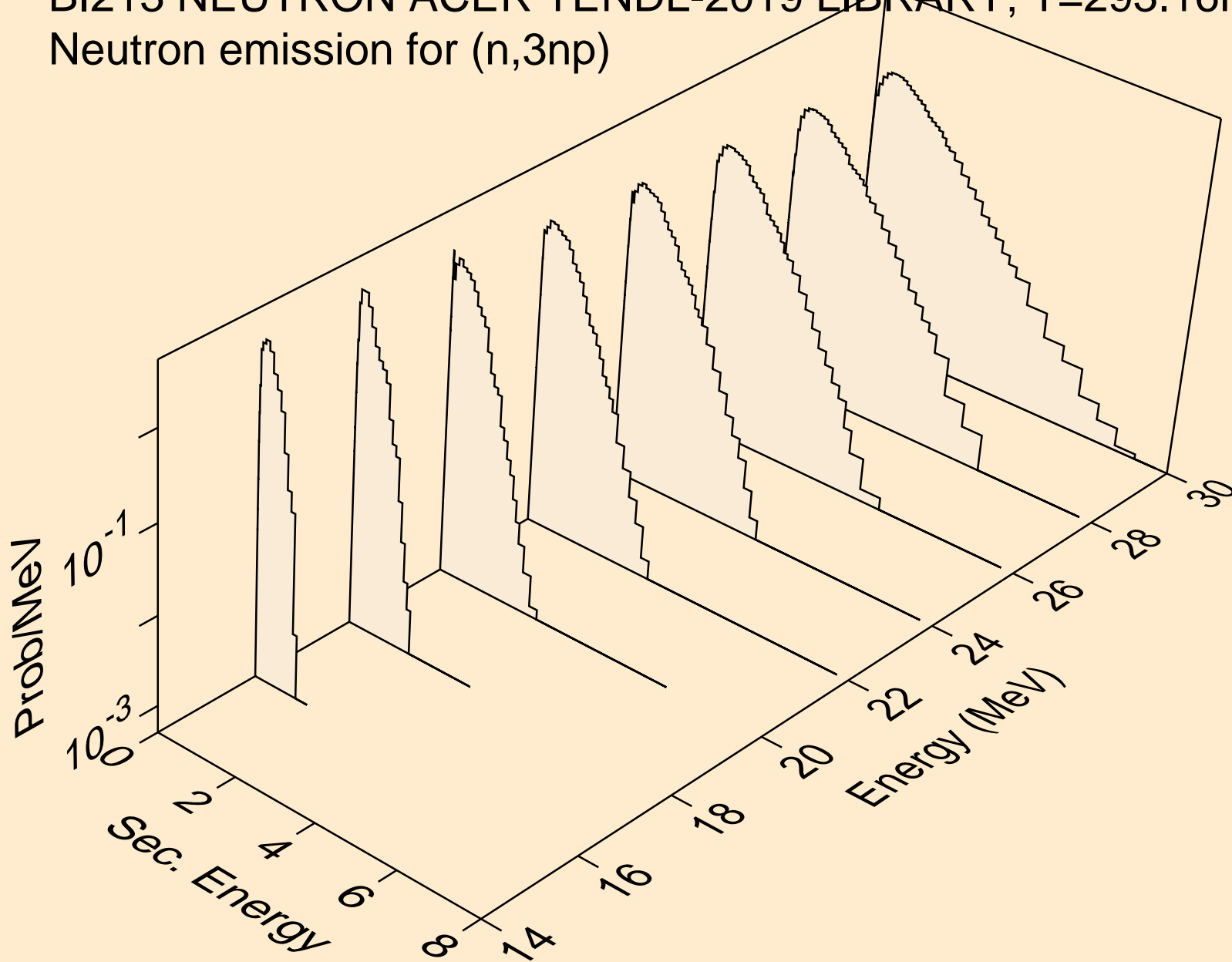
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



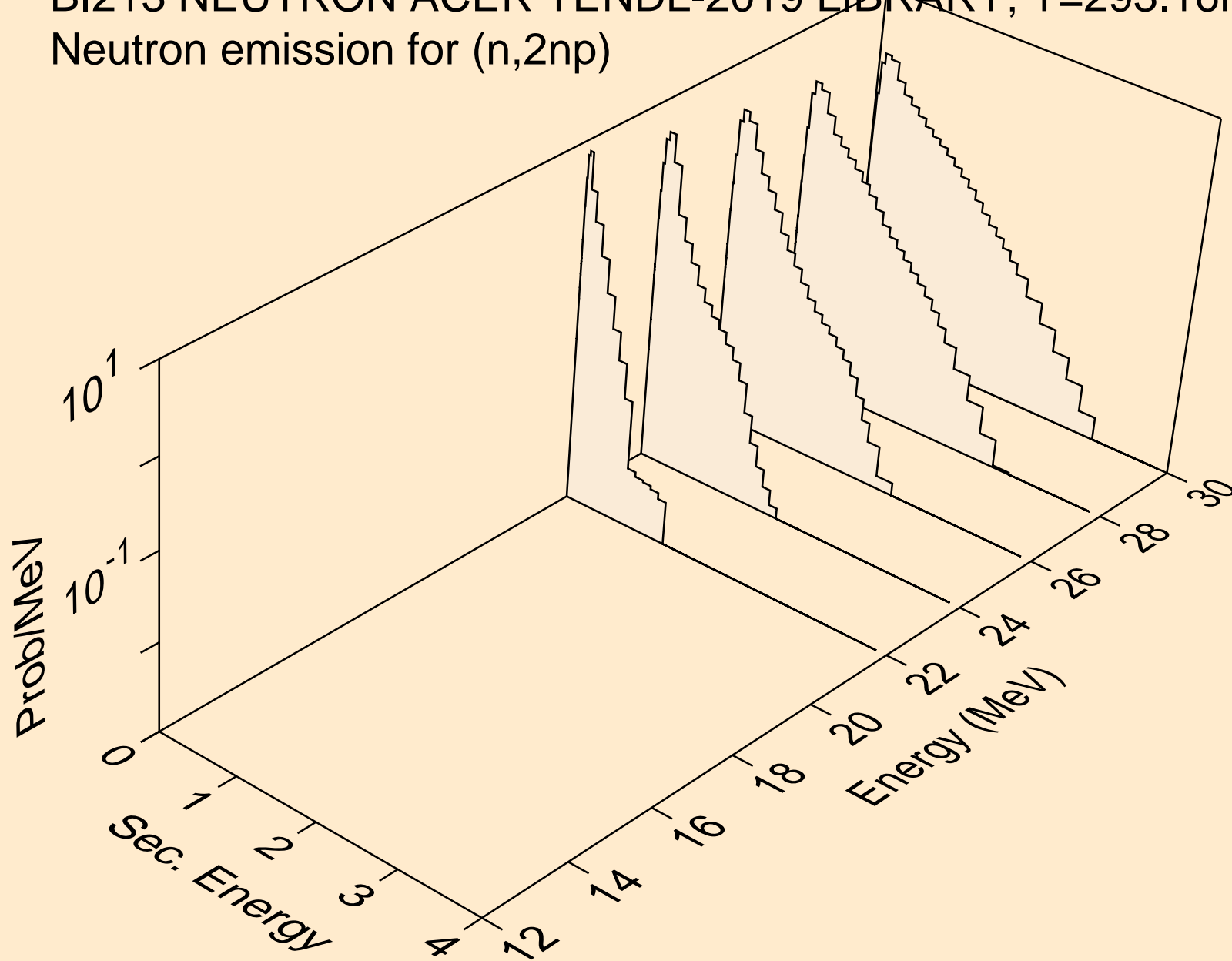
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

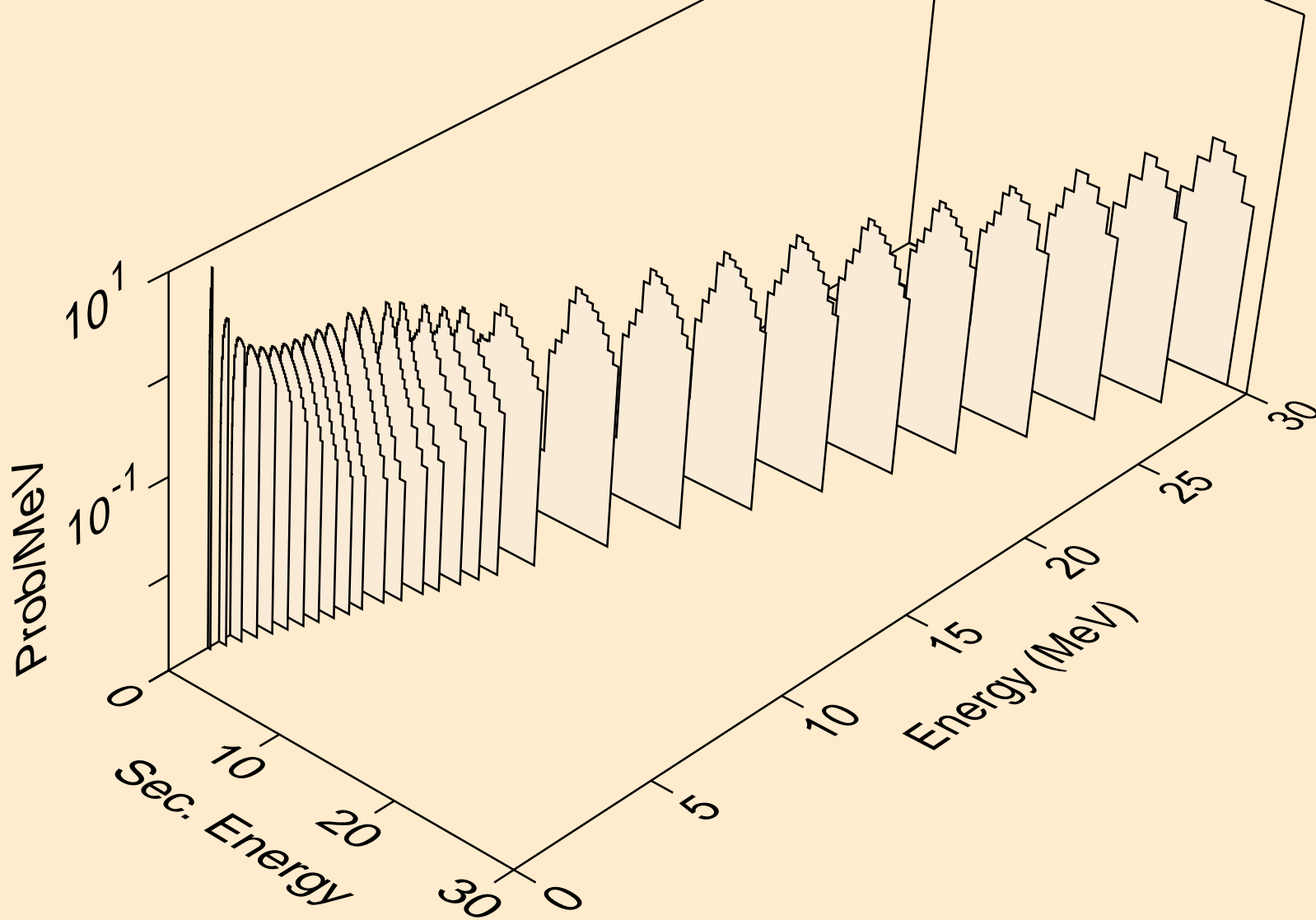


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

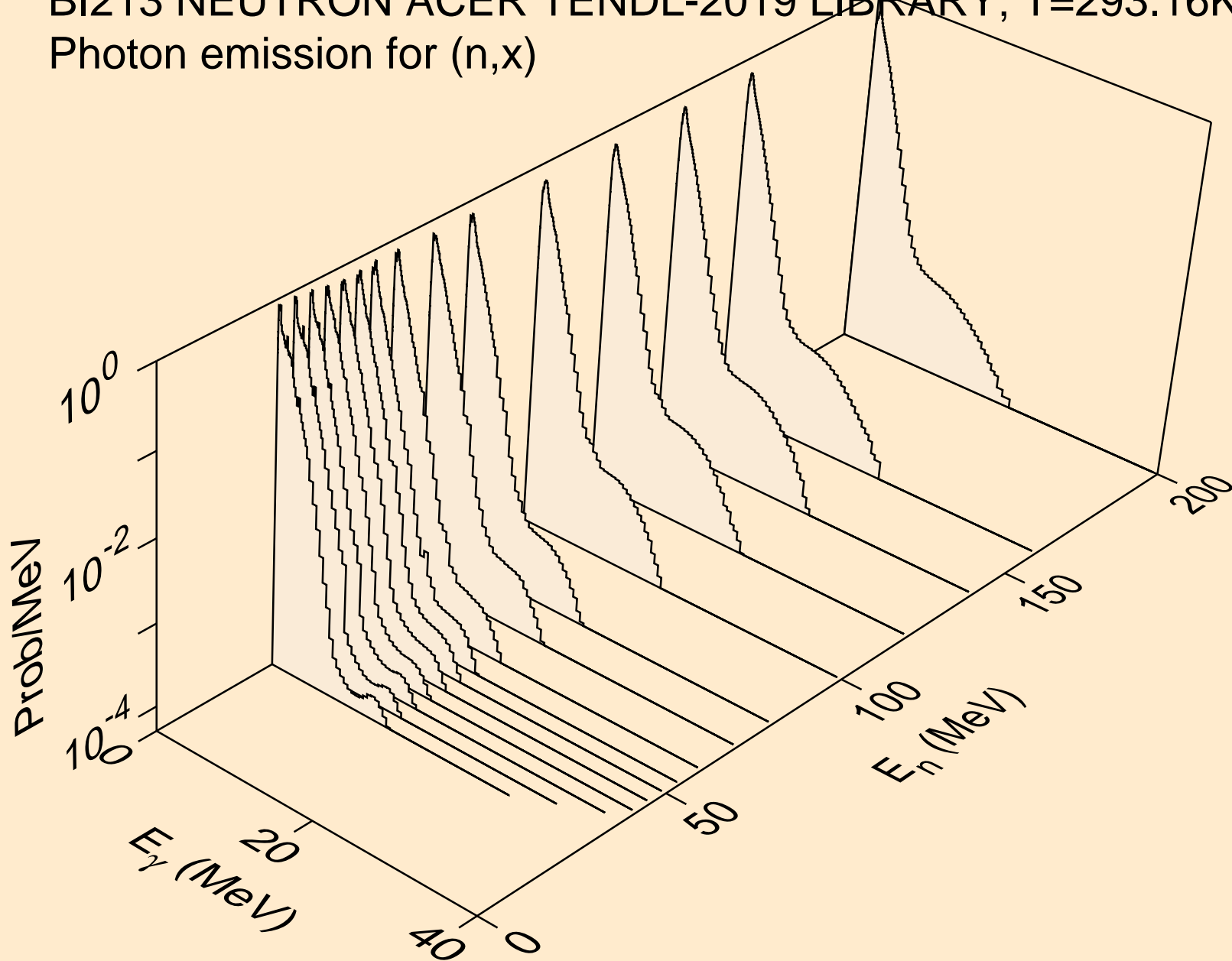




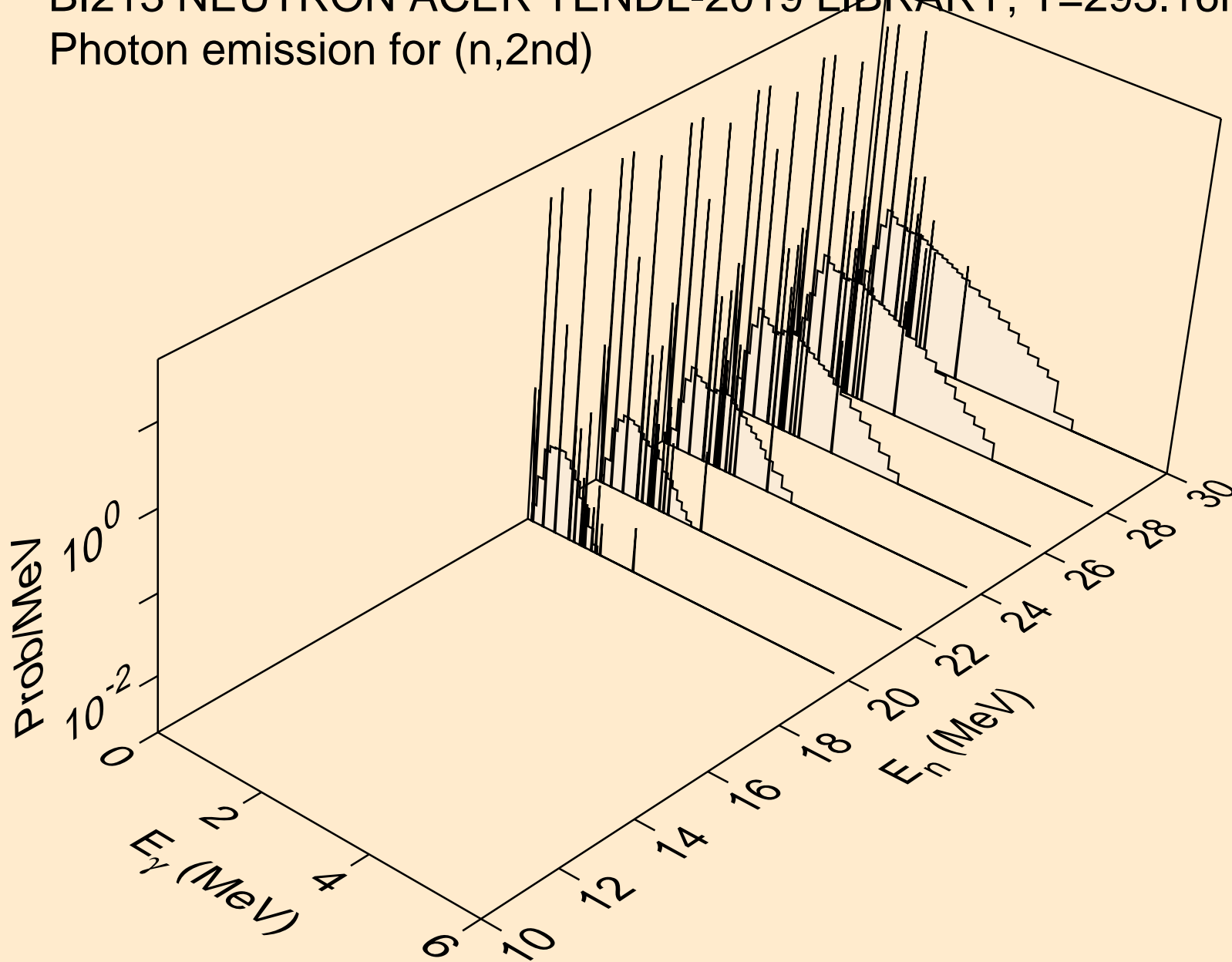
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



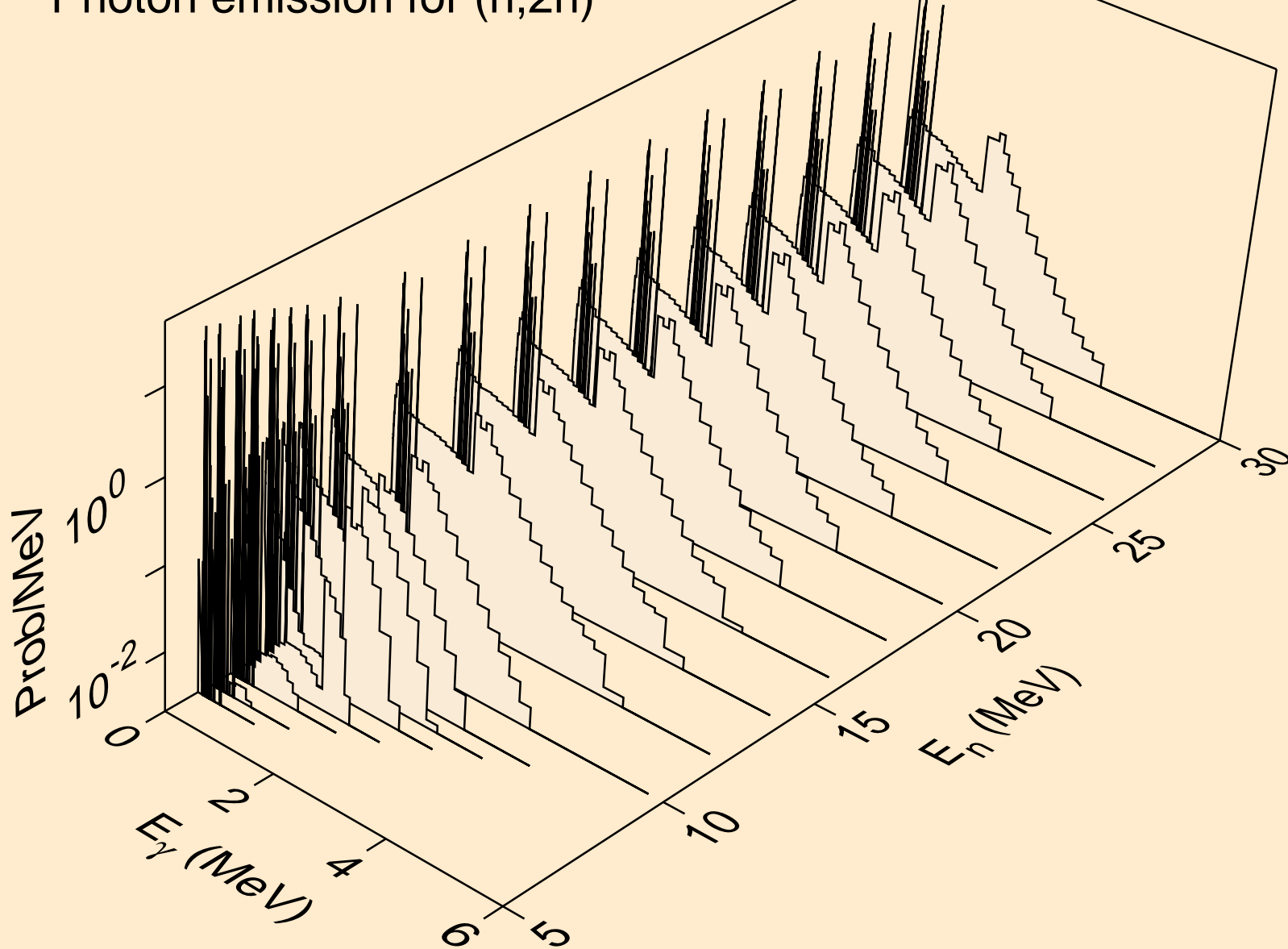
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



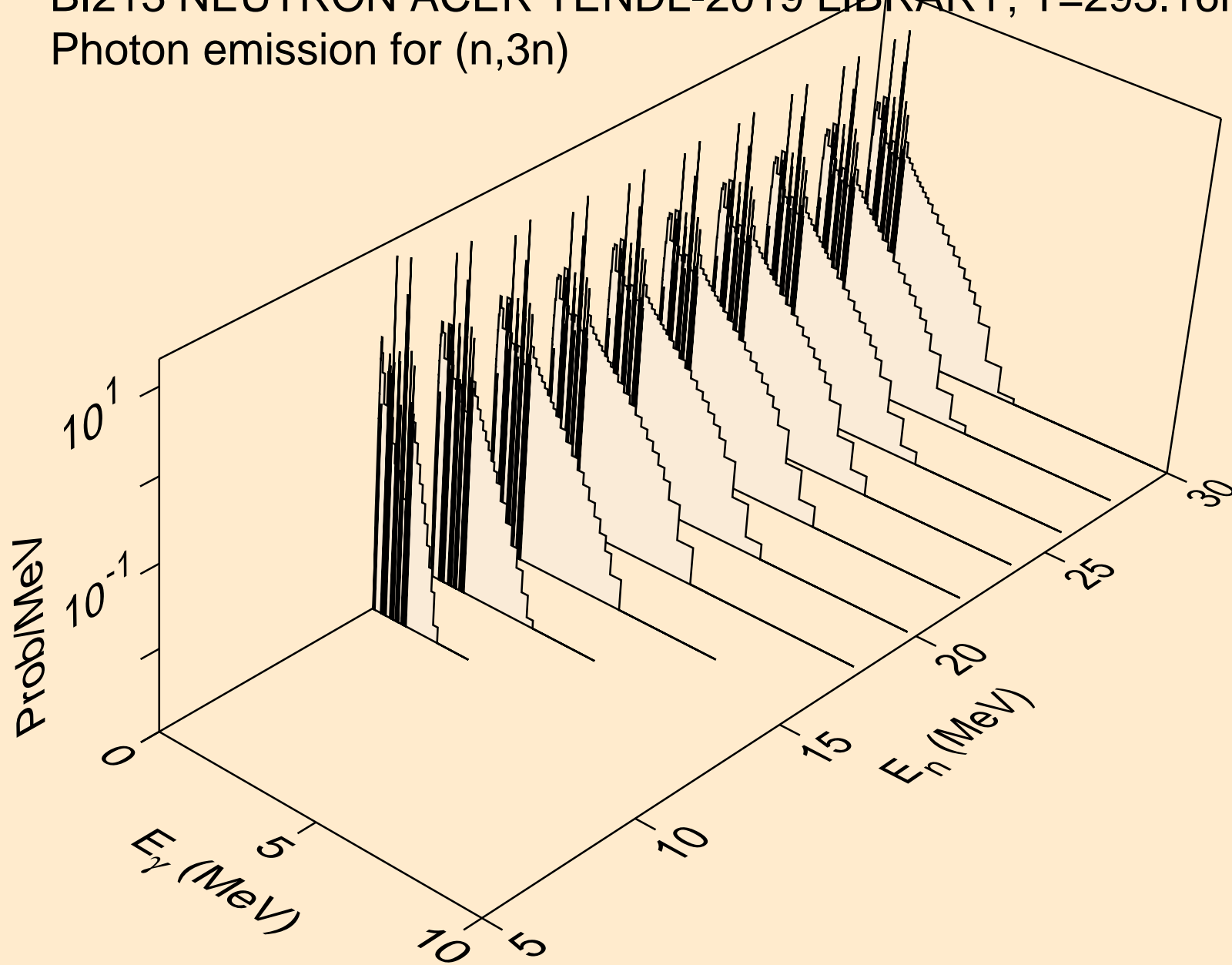
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



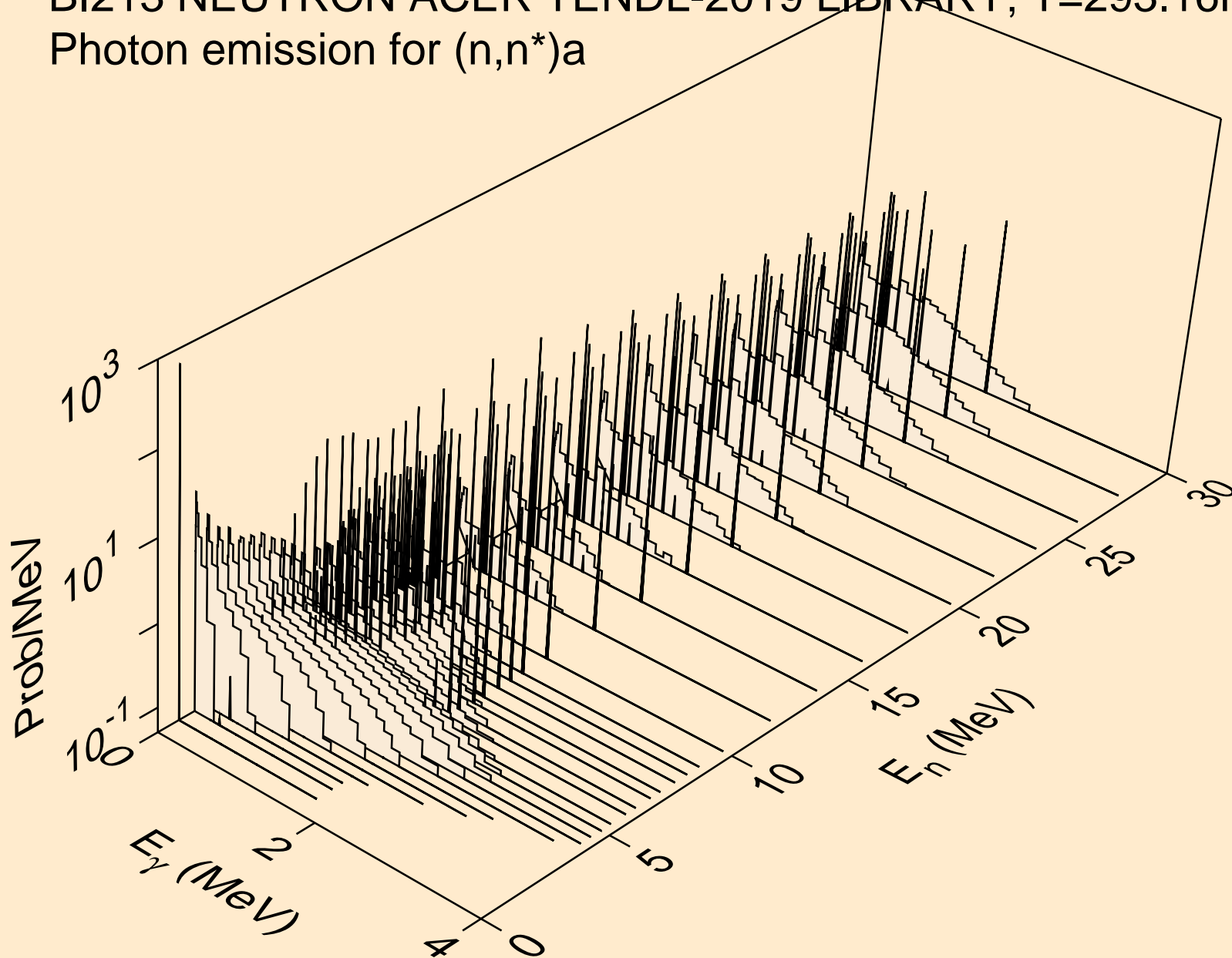
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



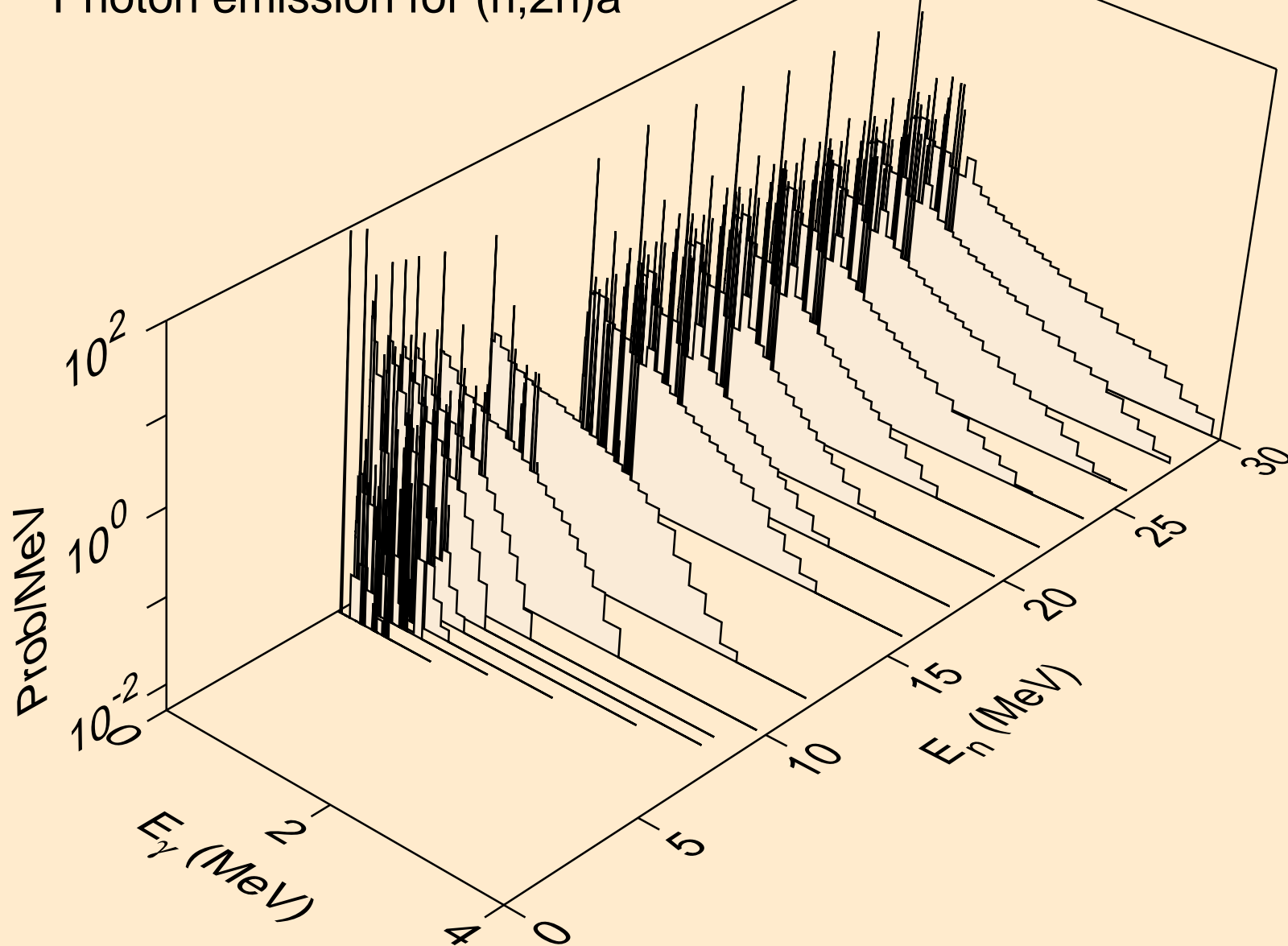
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



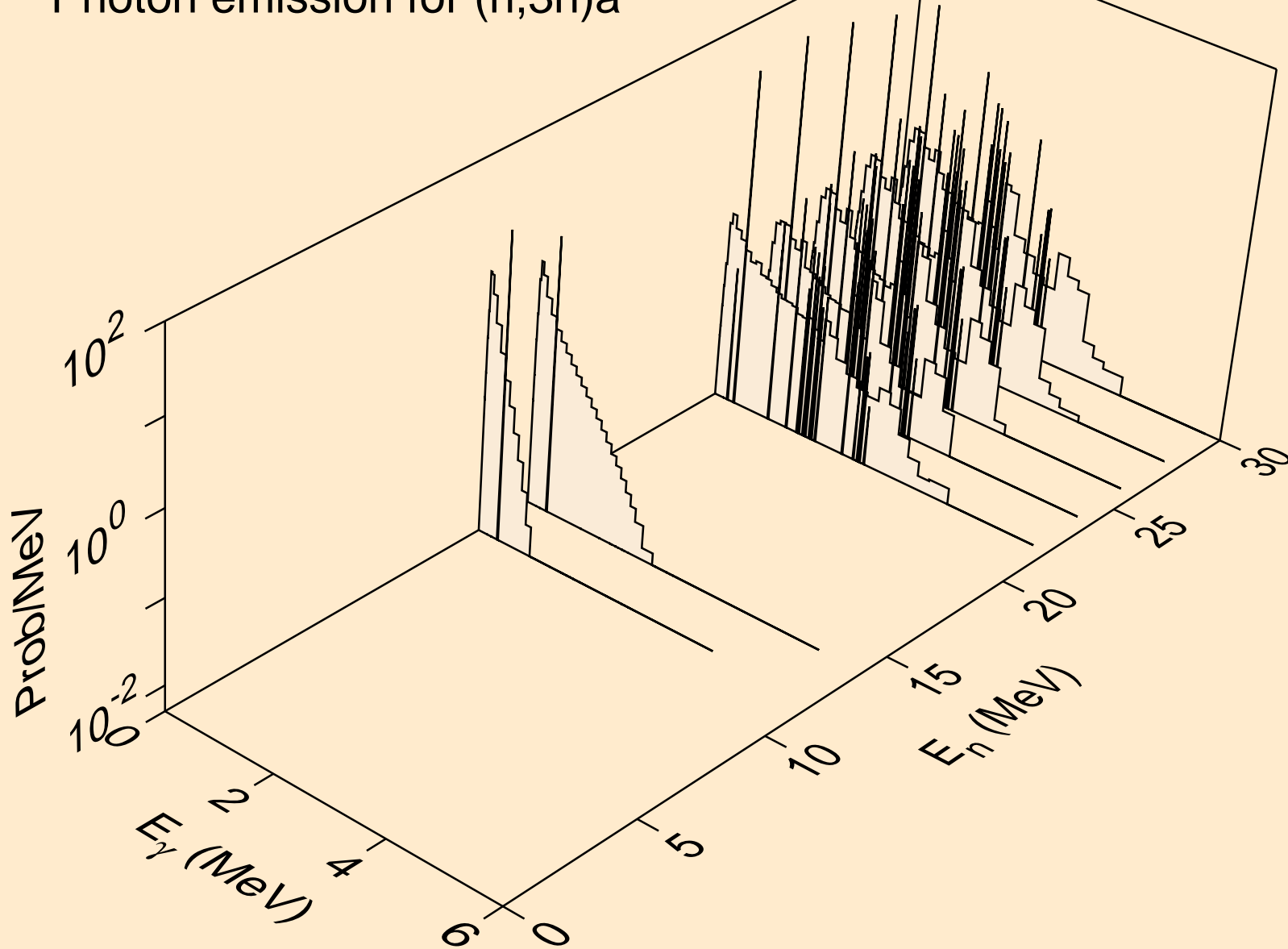
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

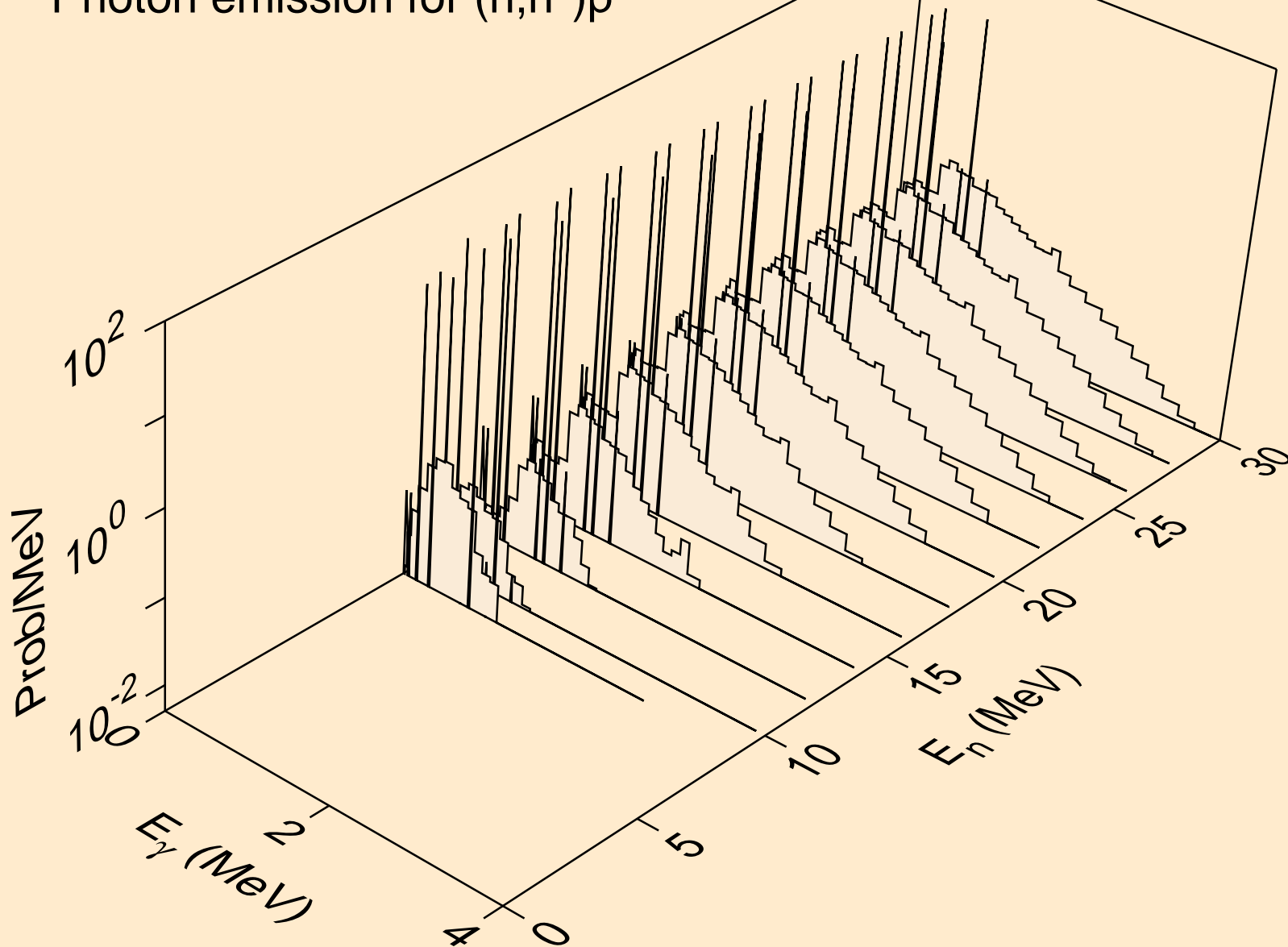


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a

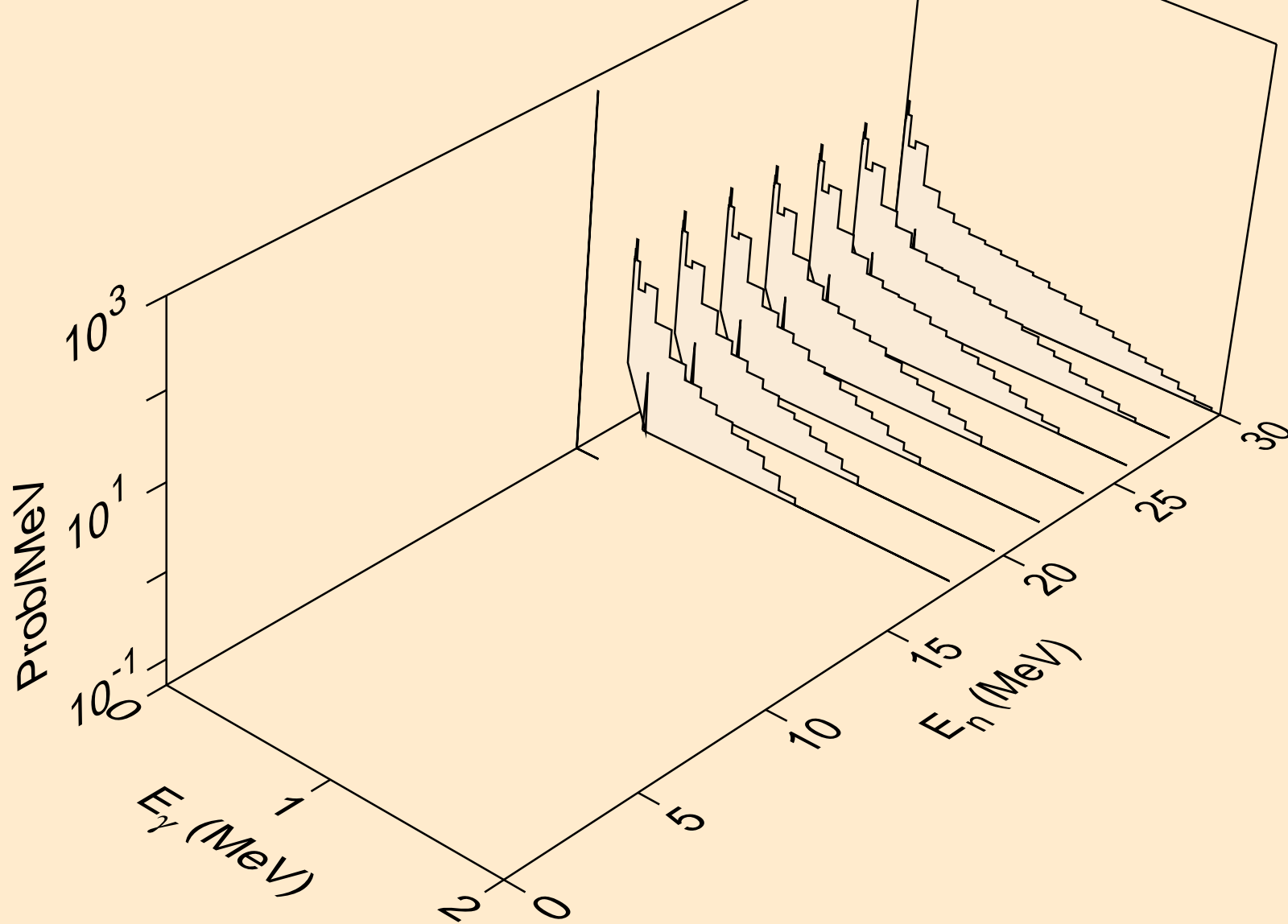




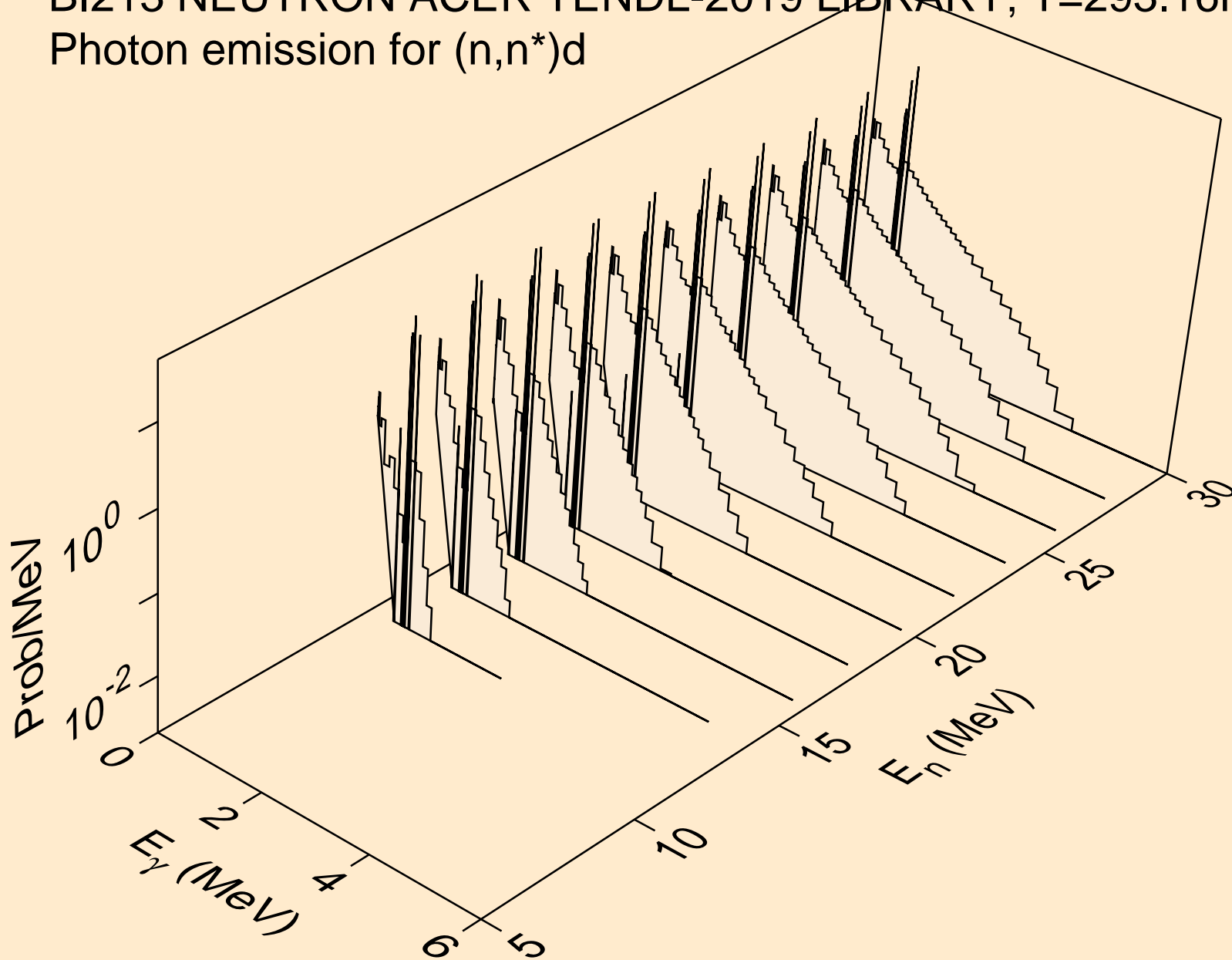
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



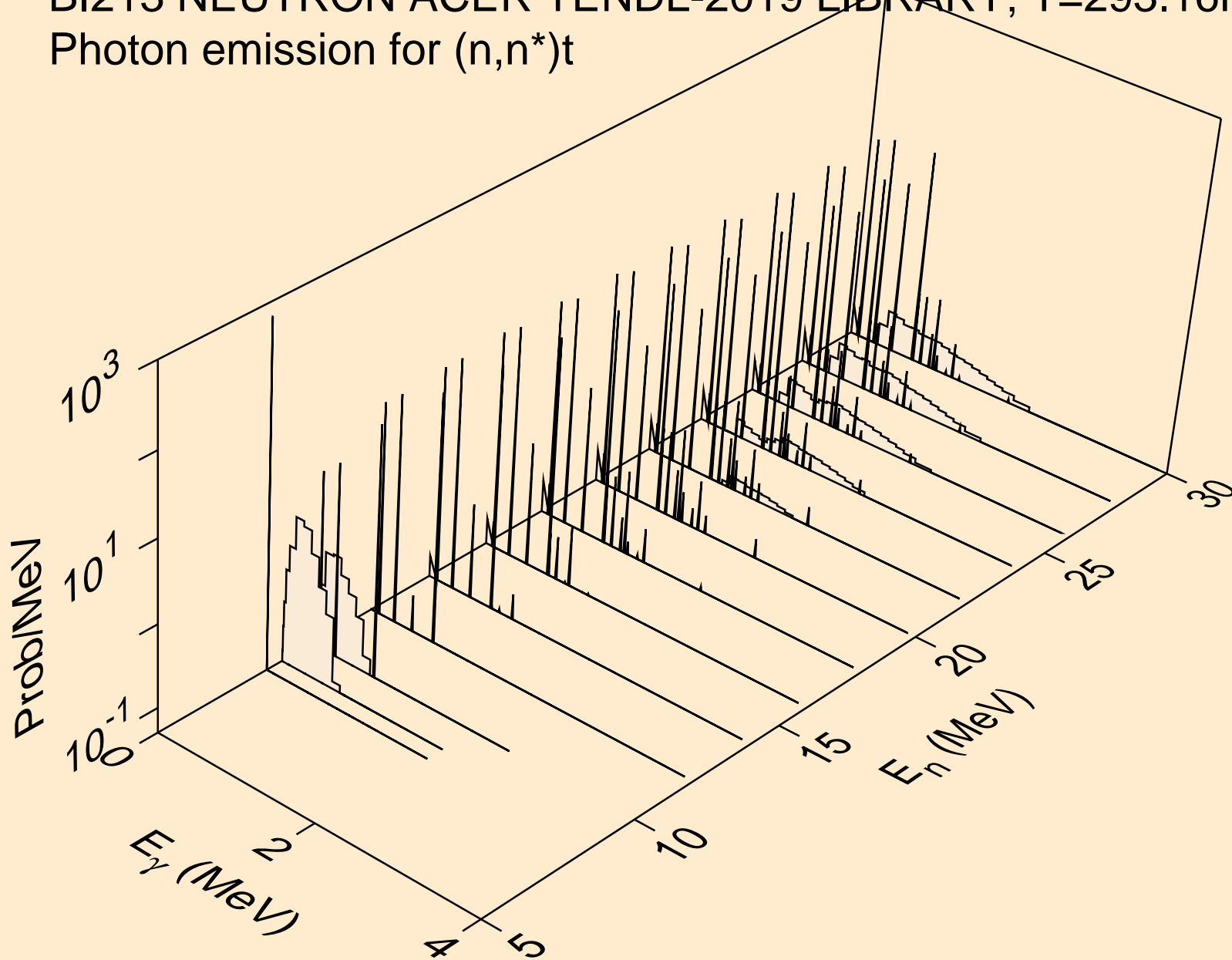
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



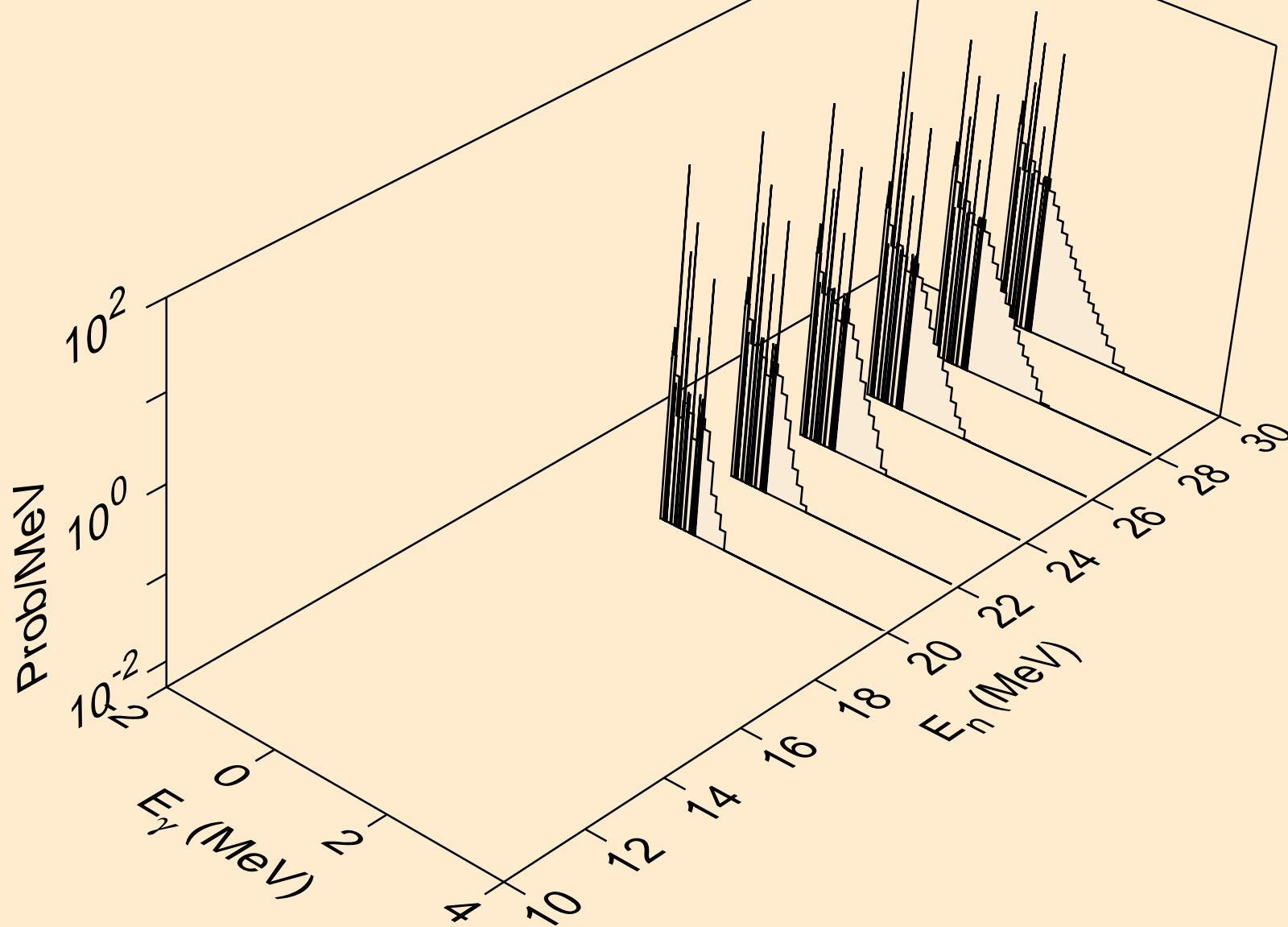
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



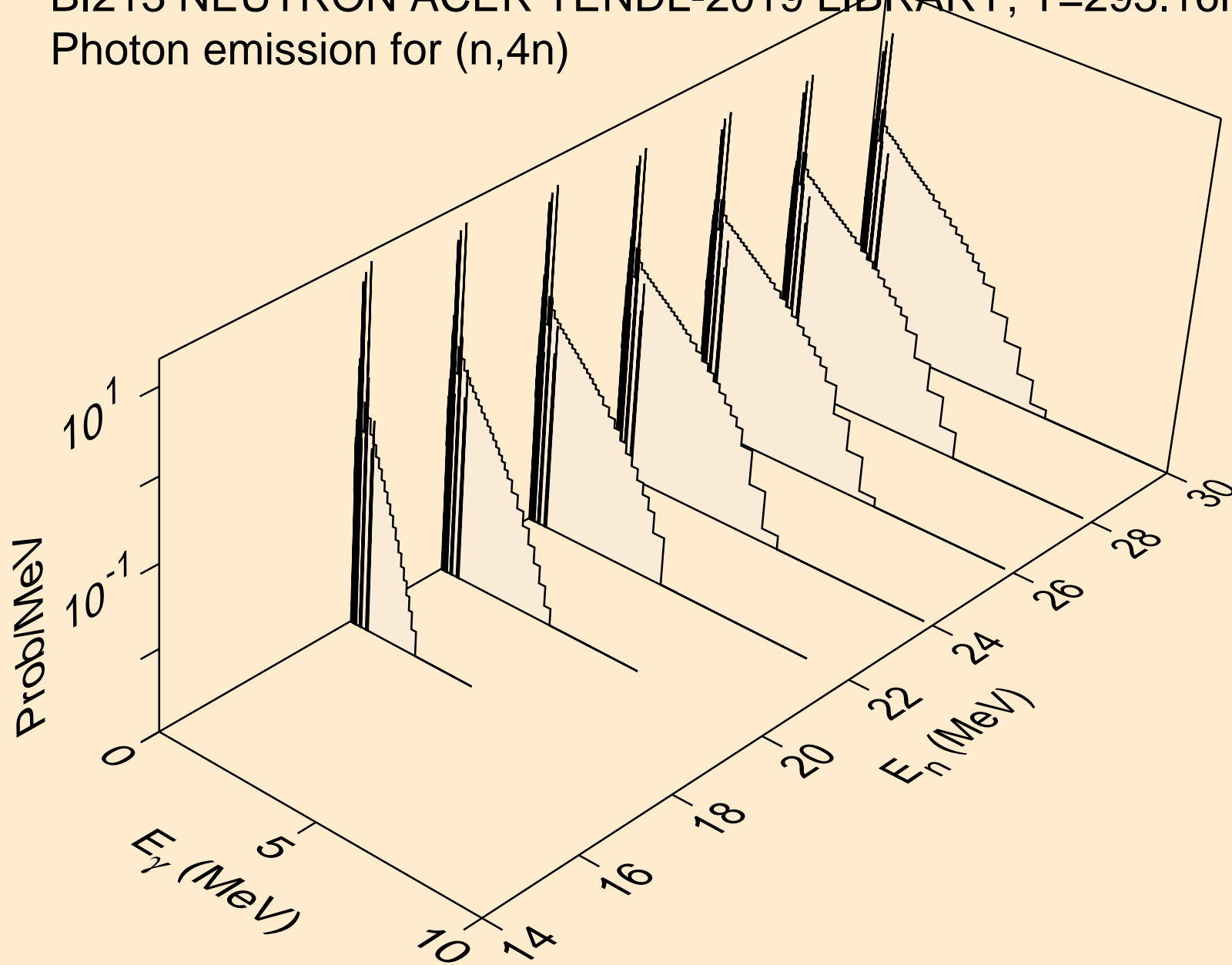
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



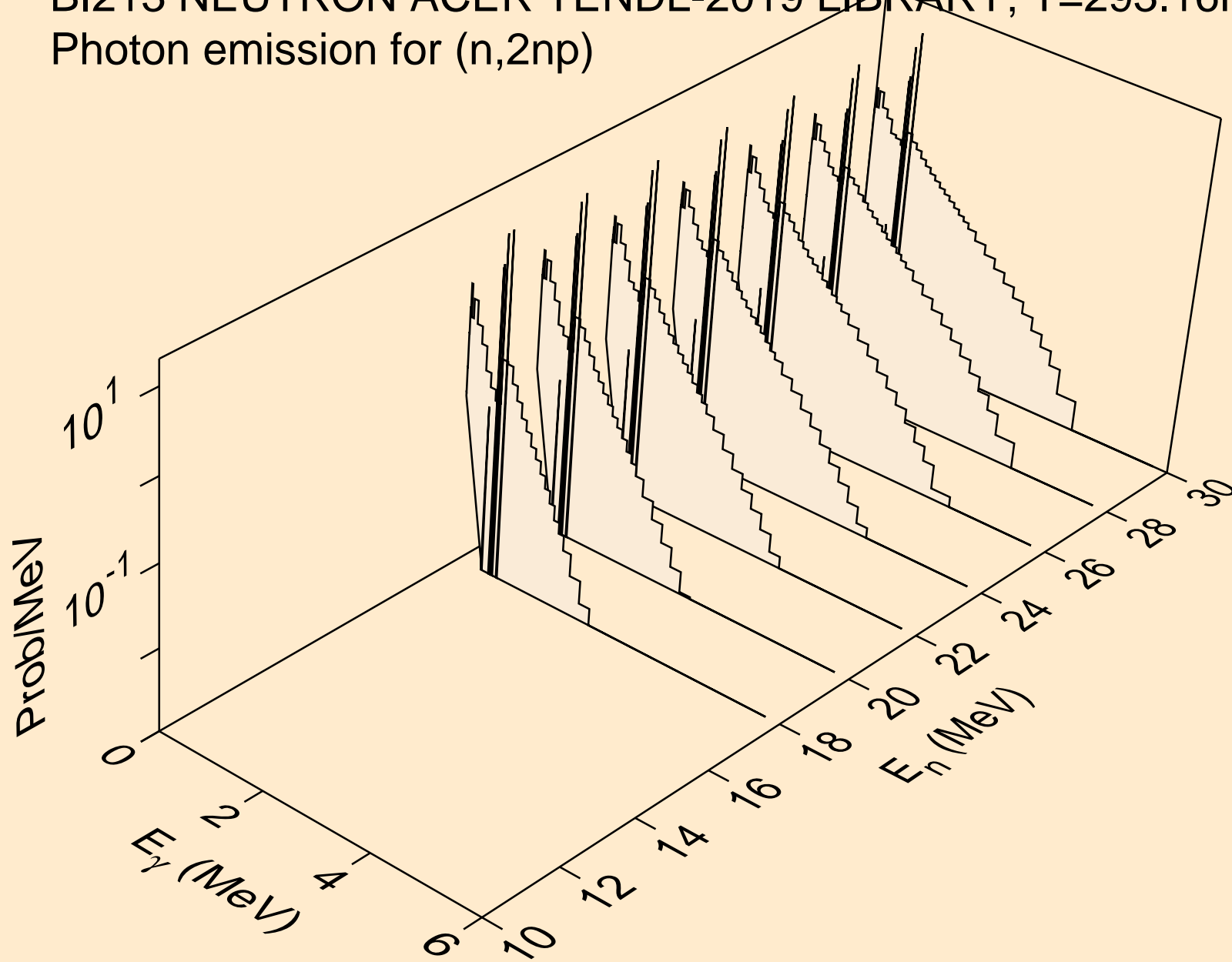
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



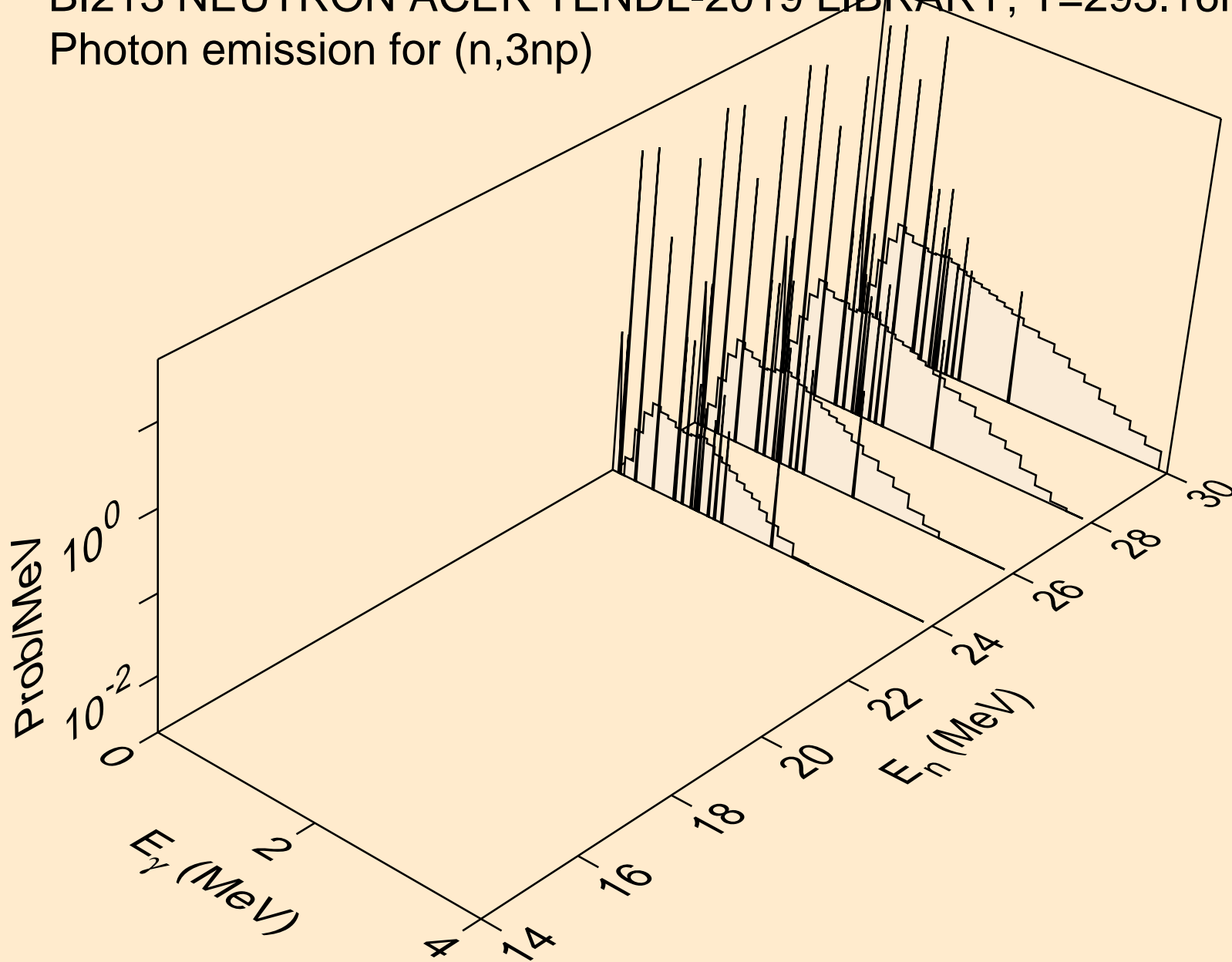
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)

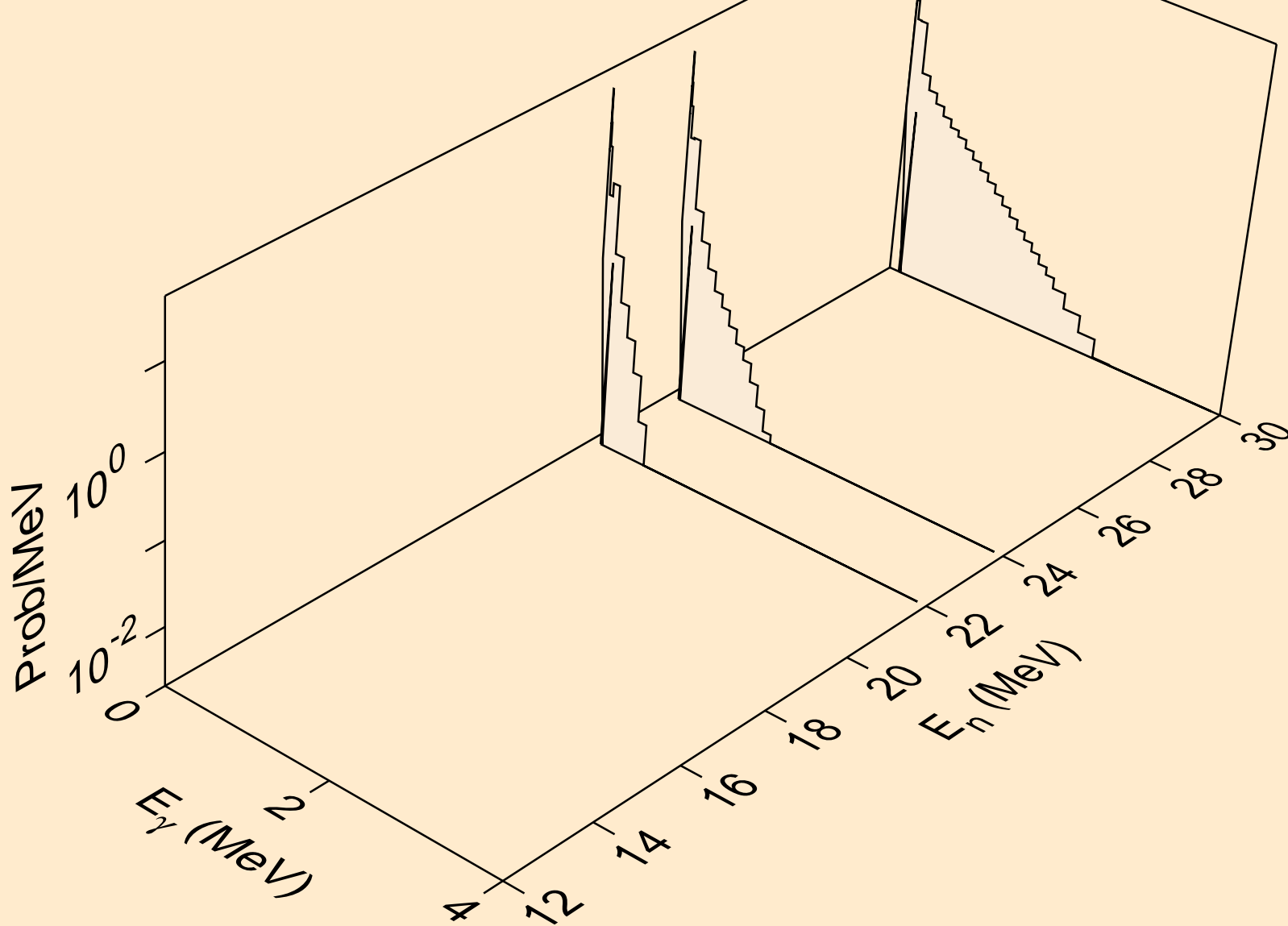


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)

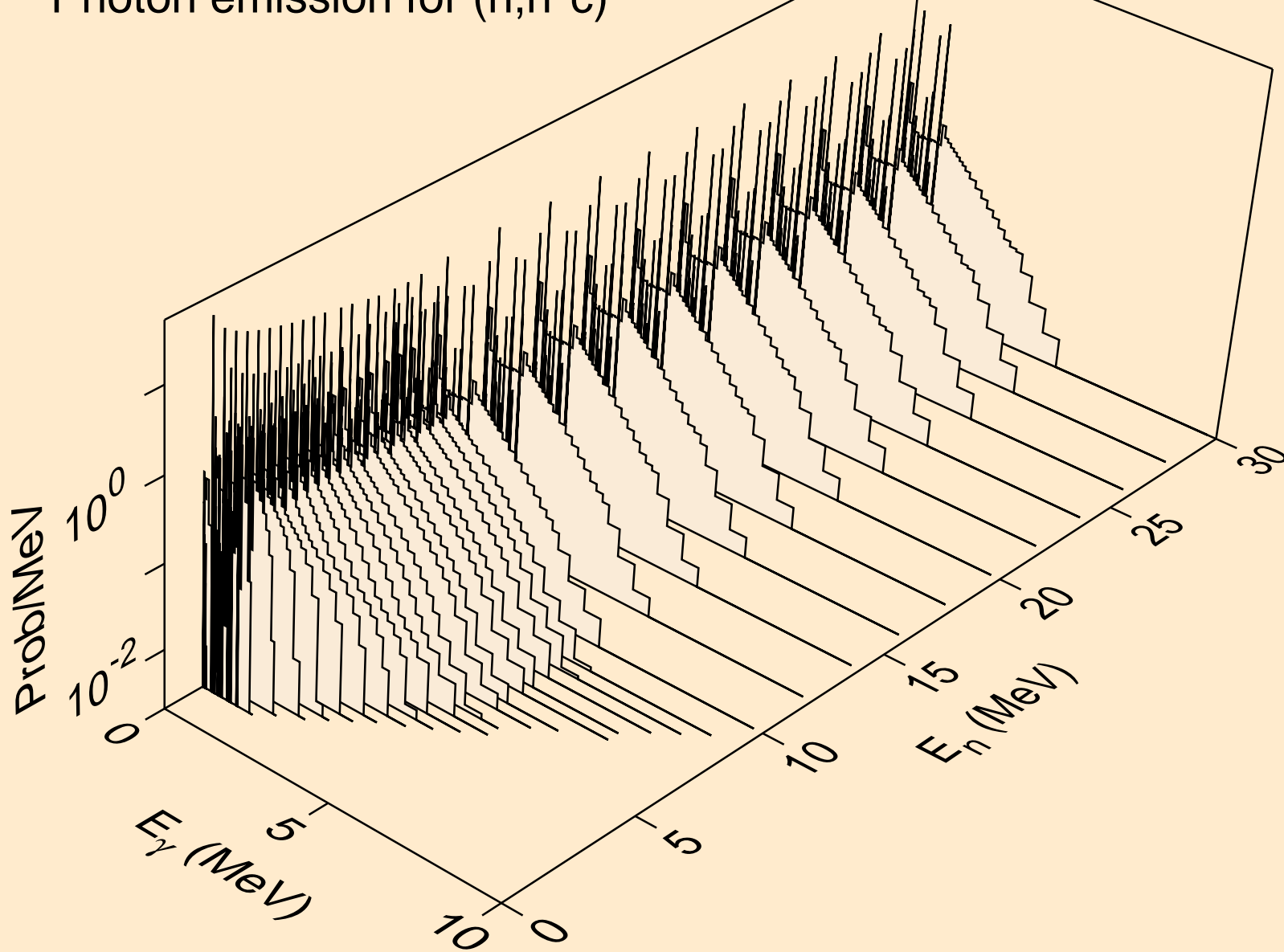




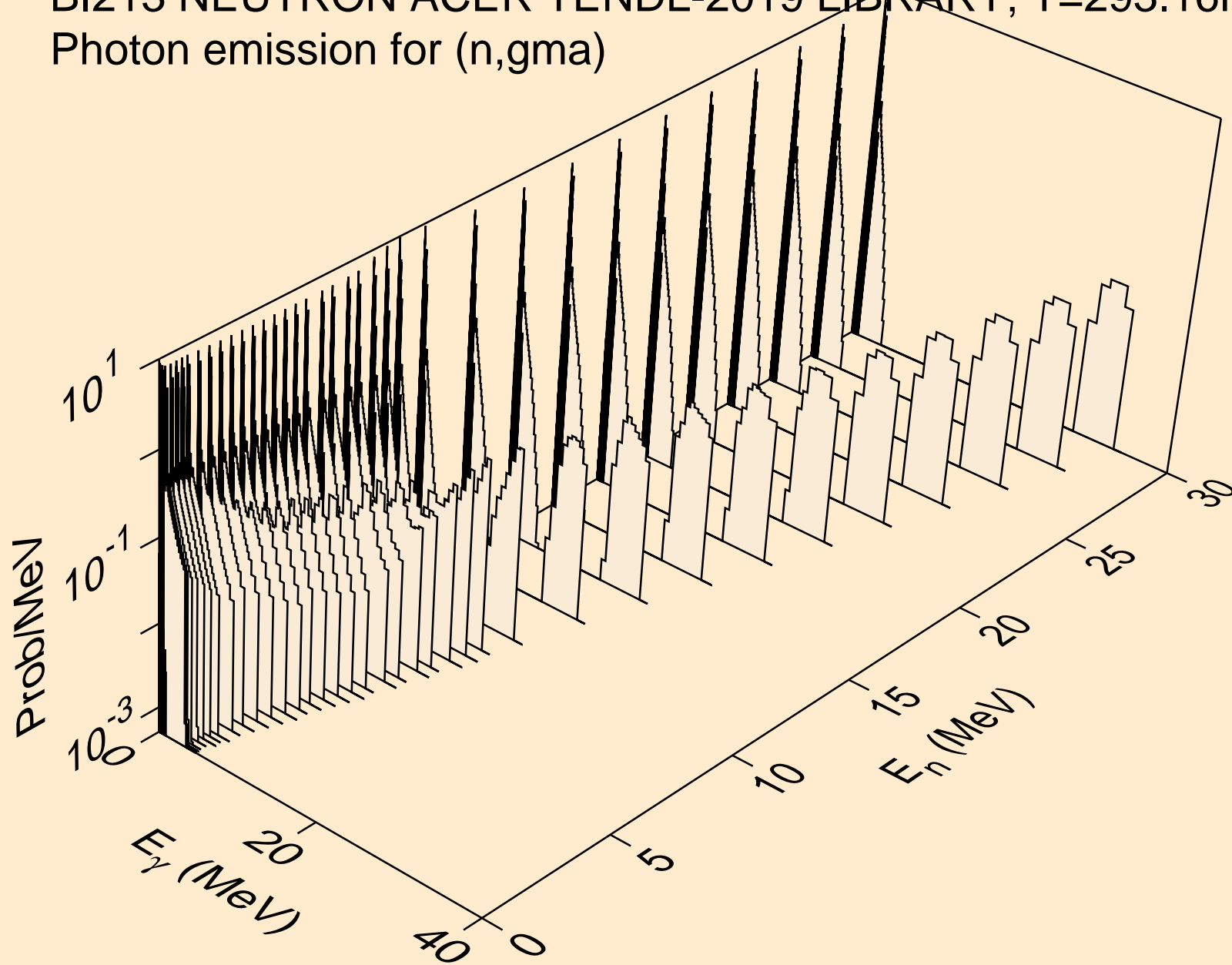
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



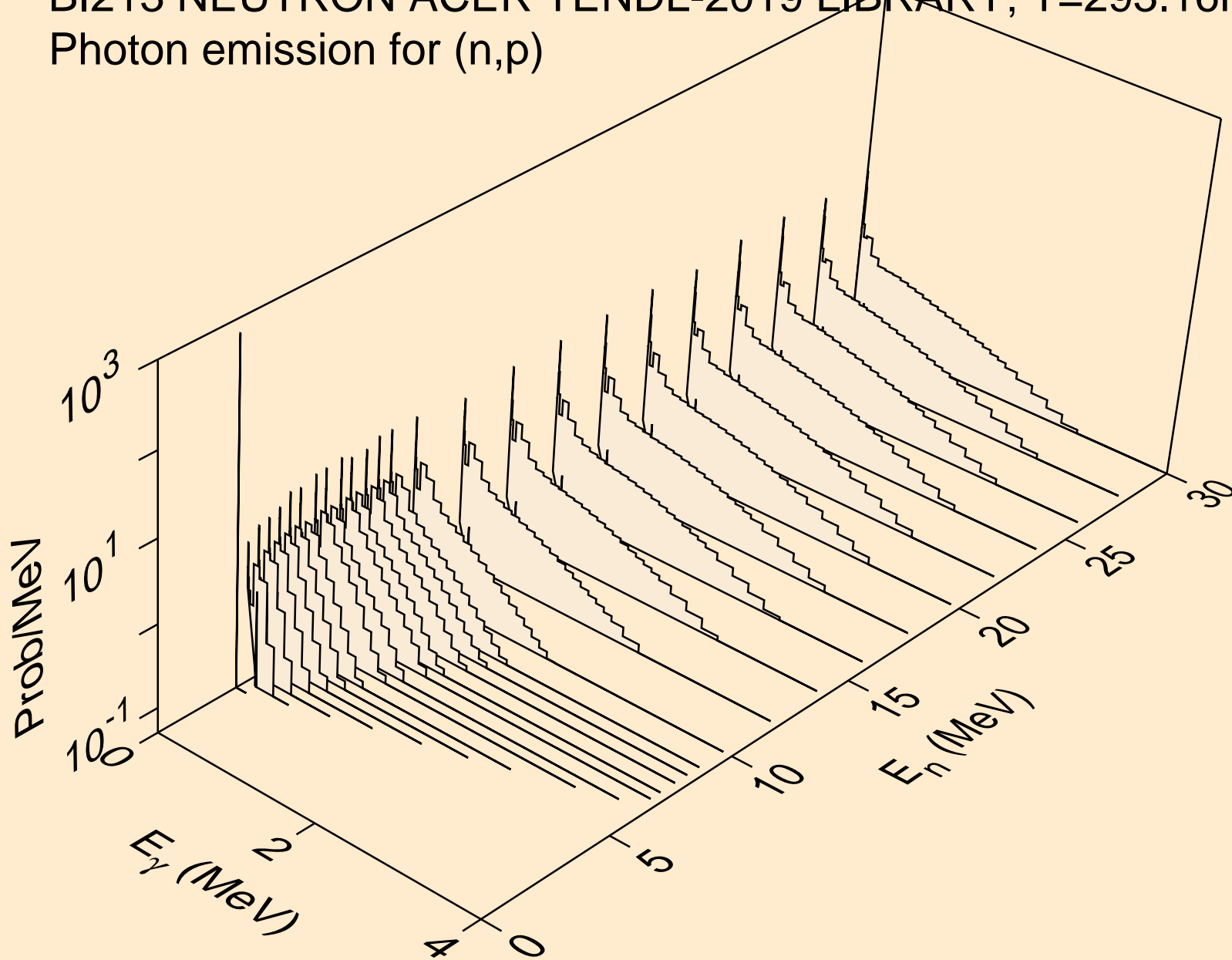
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



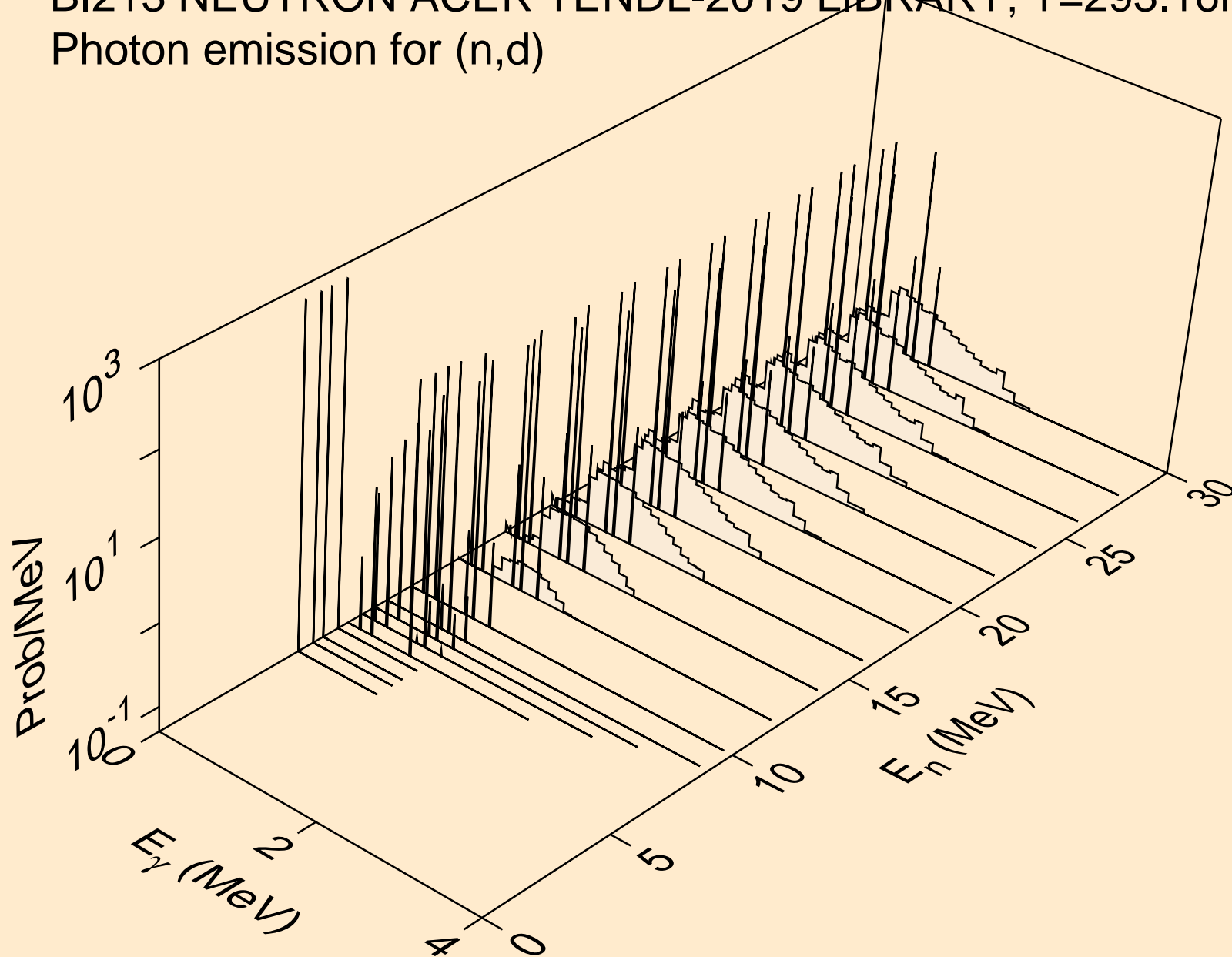
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



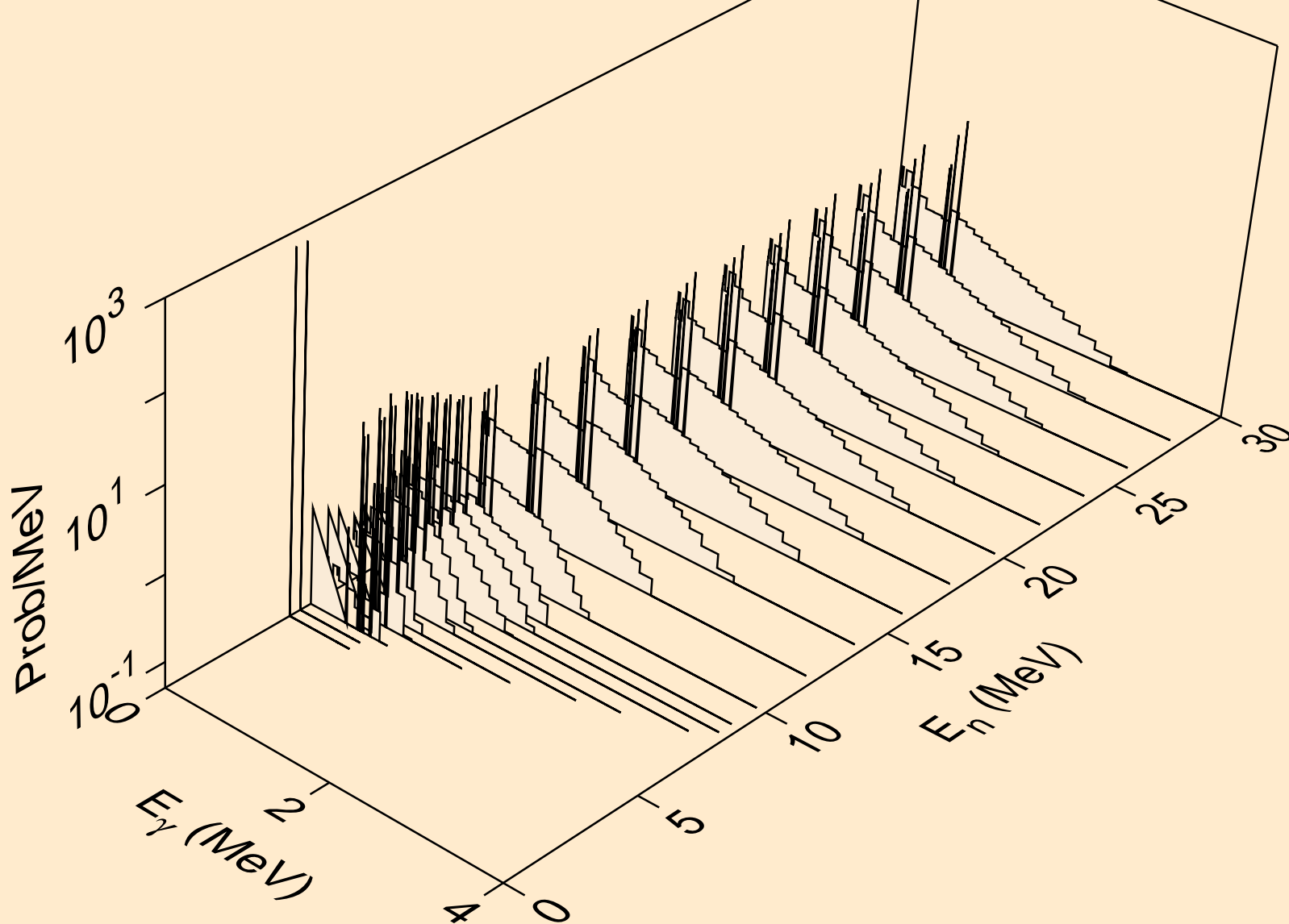
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



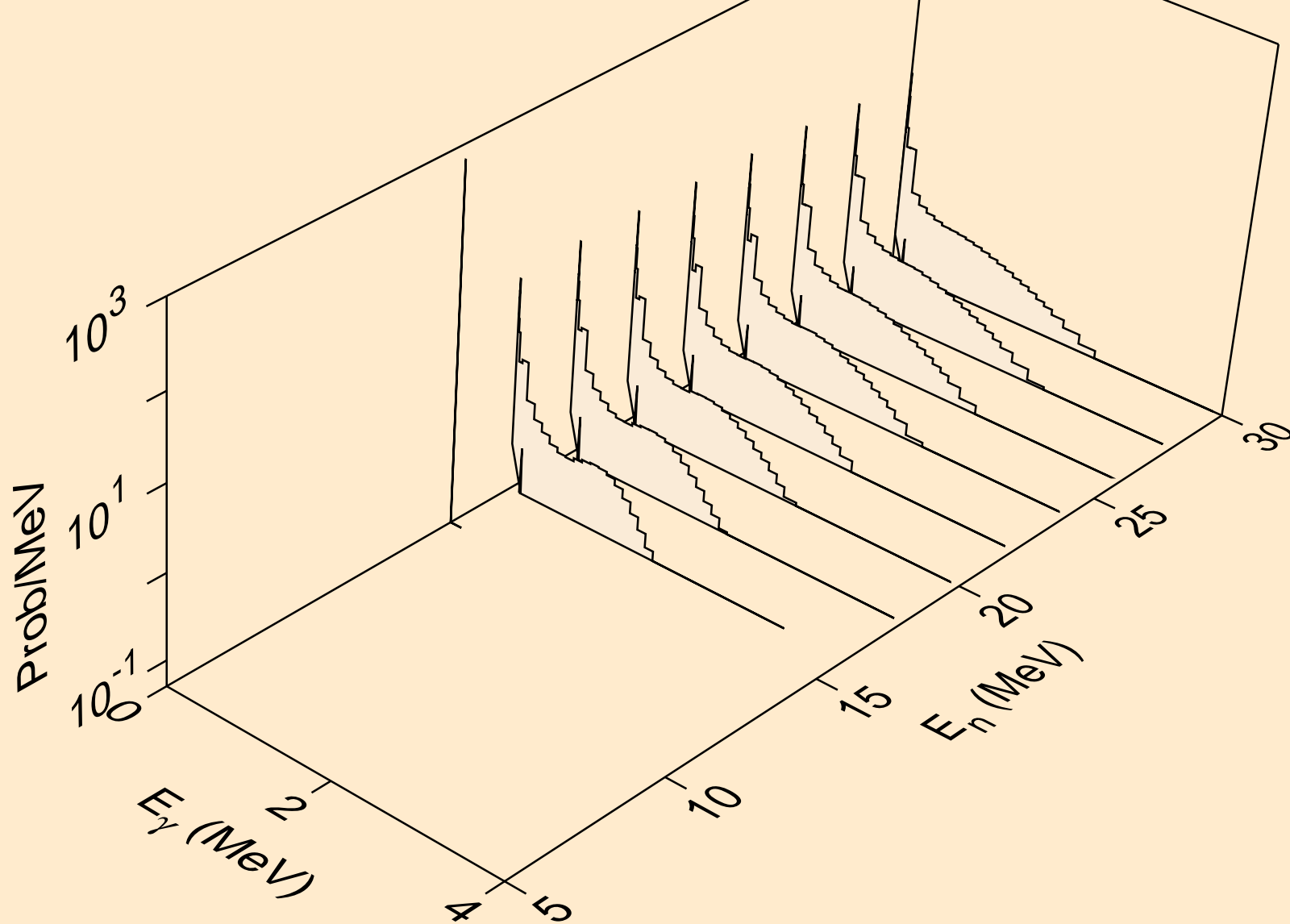
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



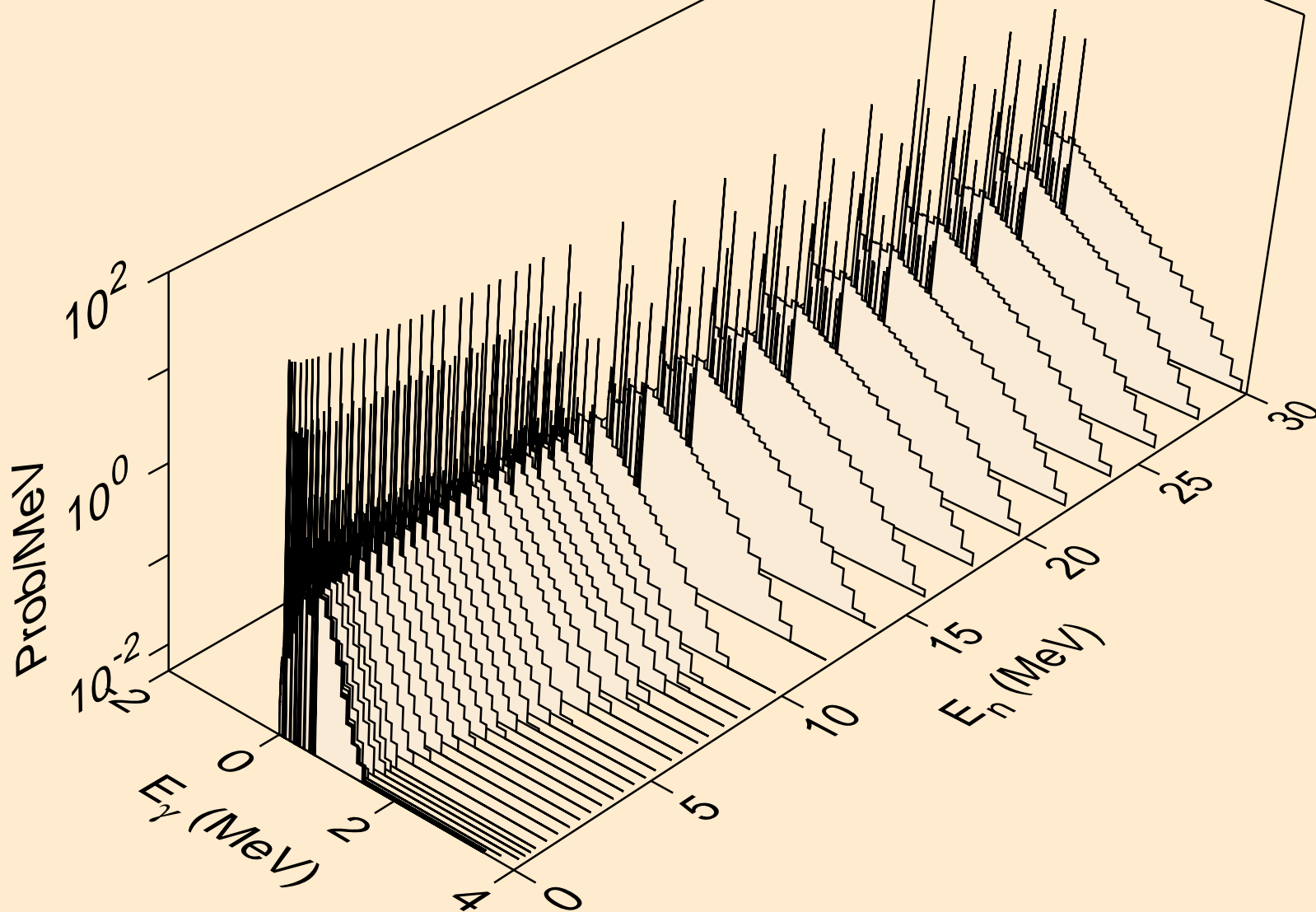
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)

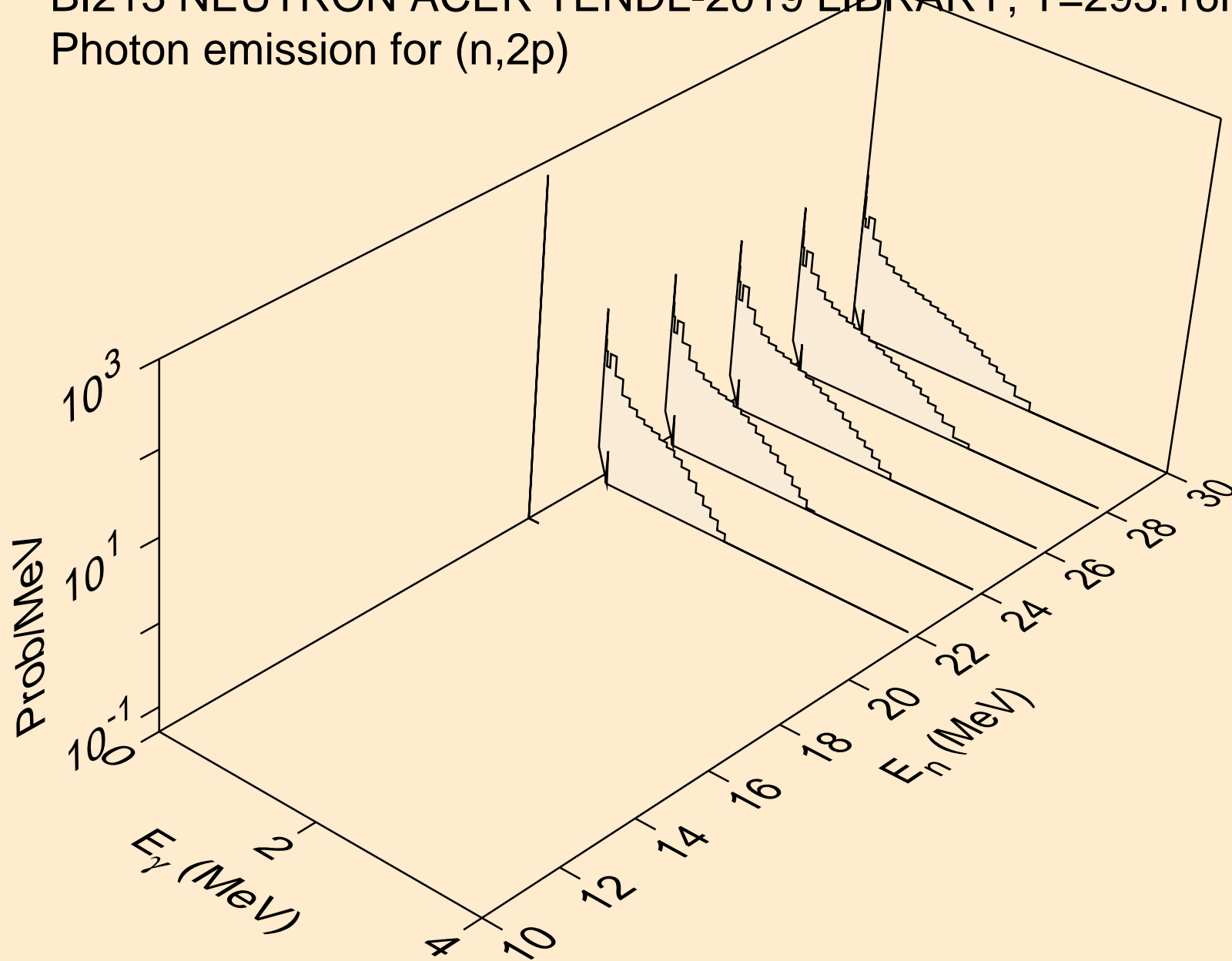


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

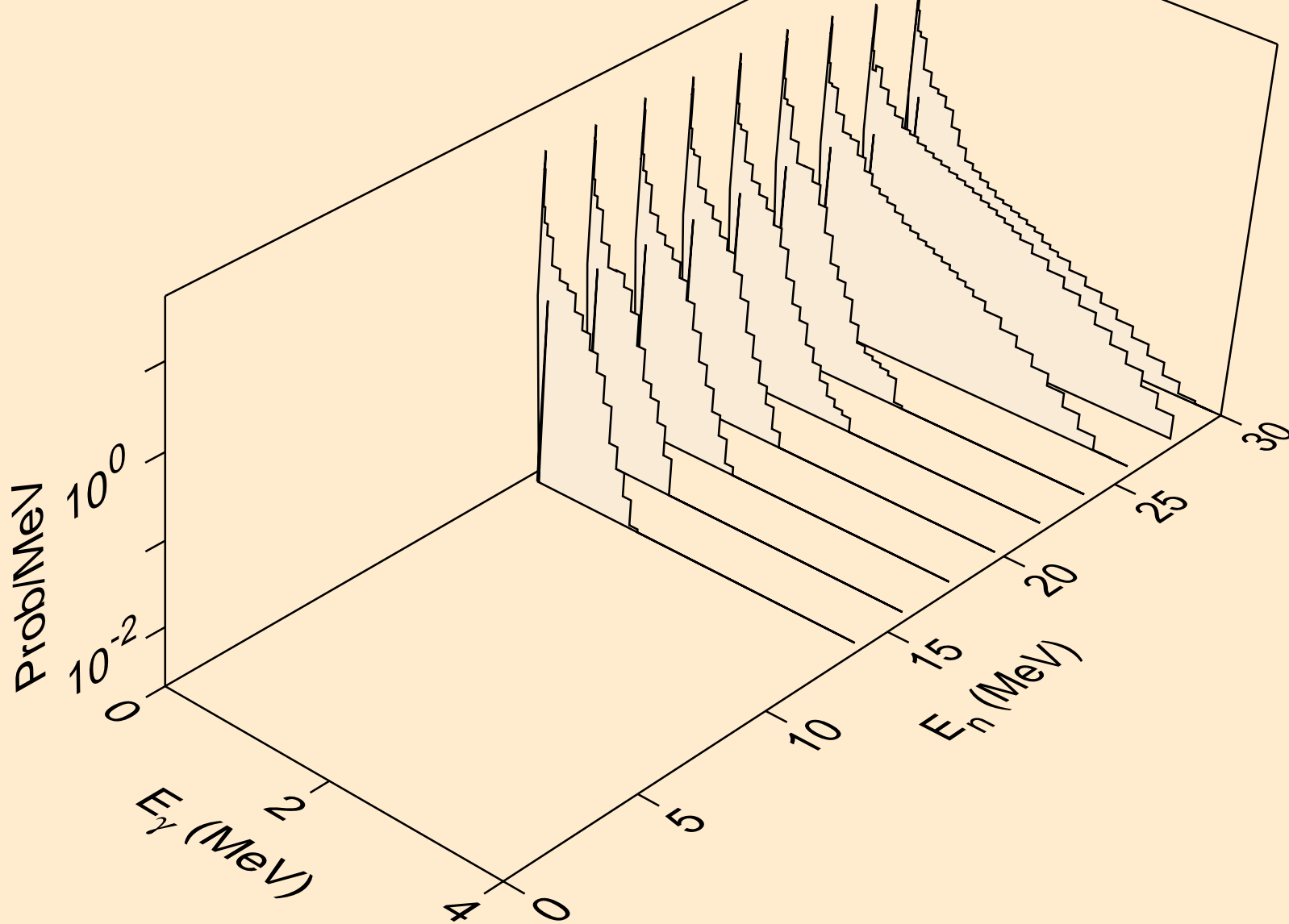




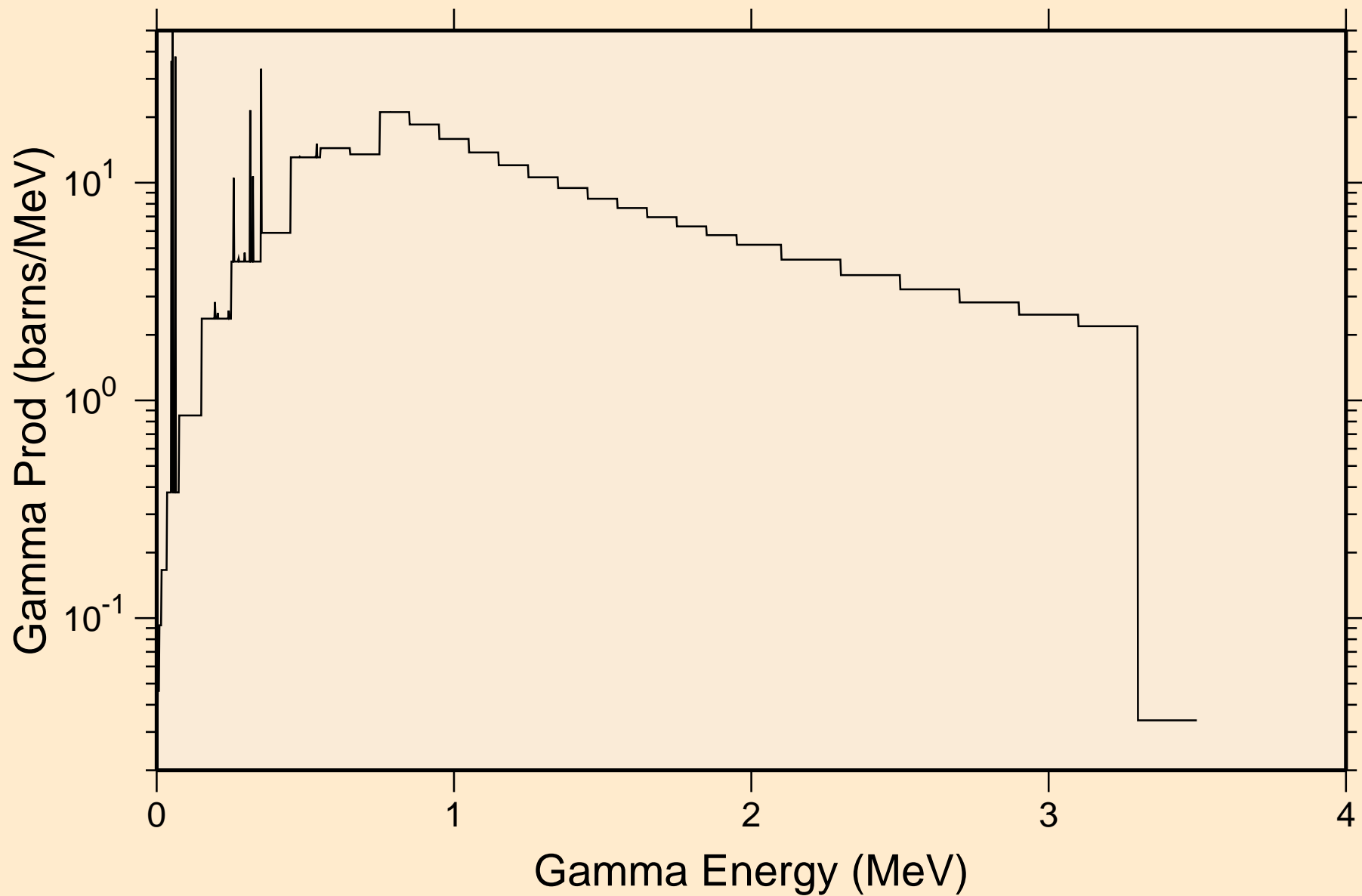
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Photon emission for (n,2p)



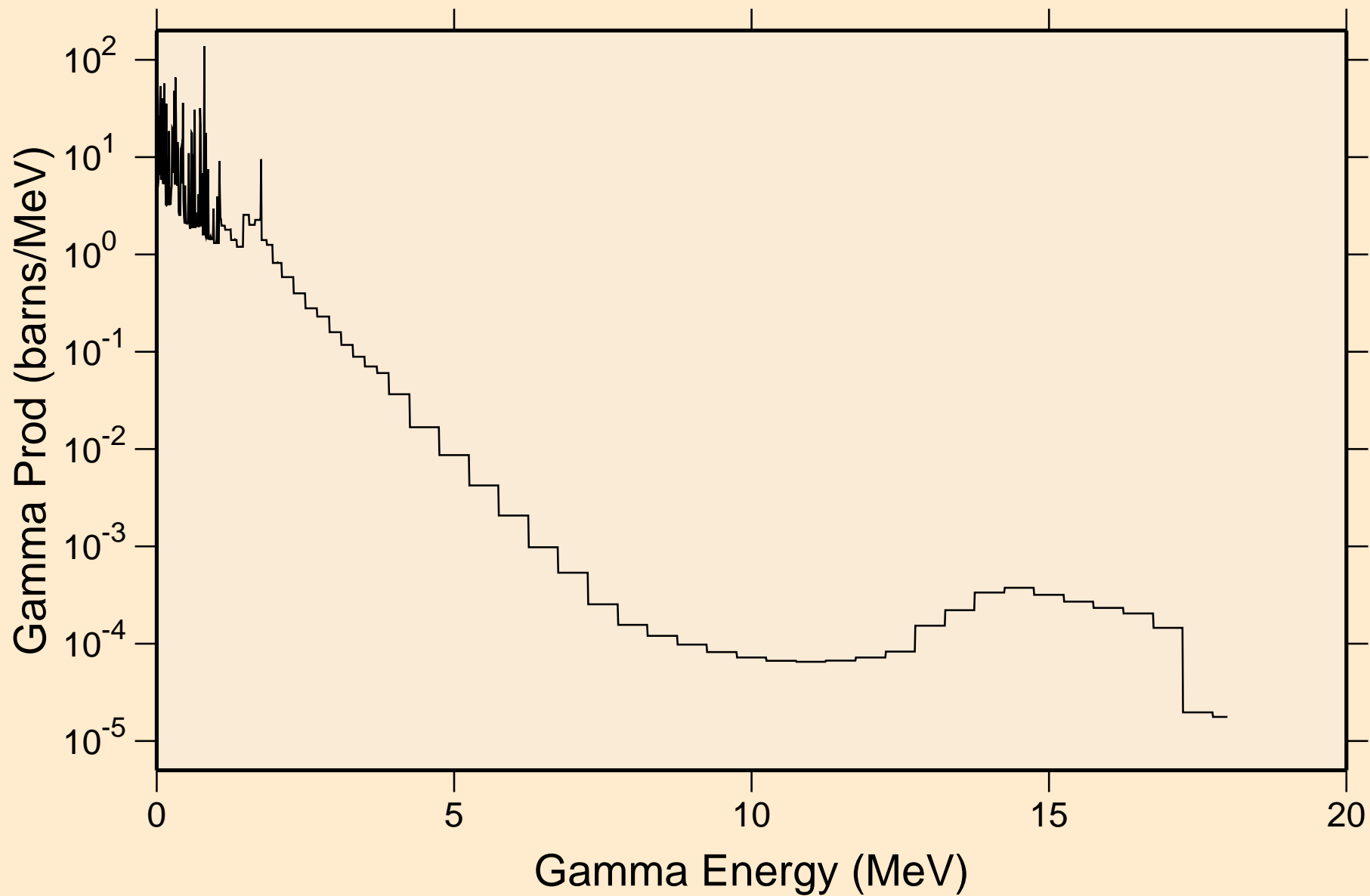
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

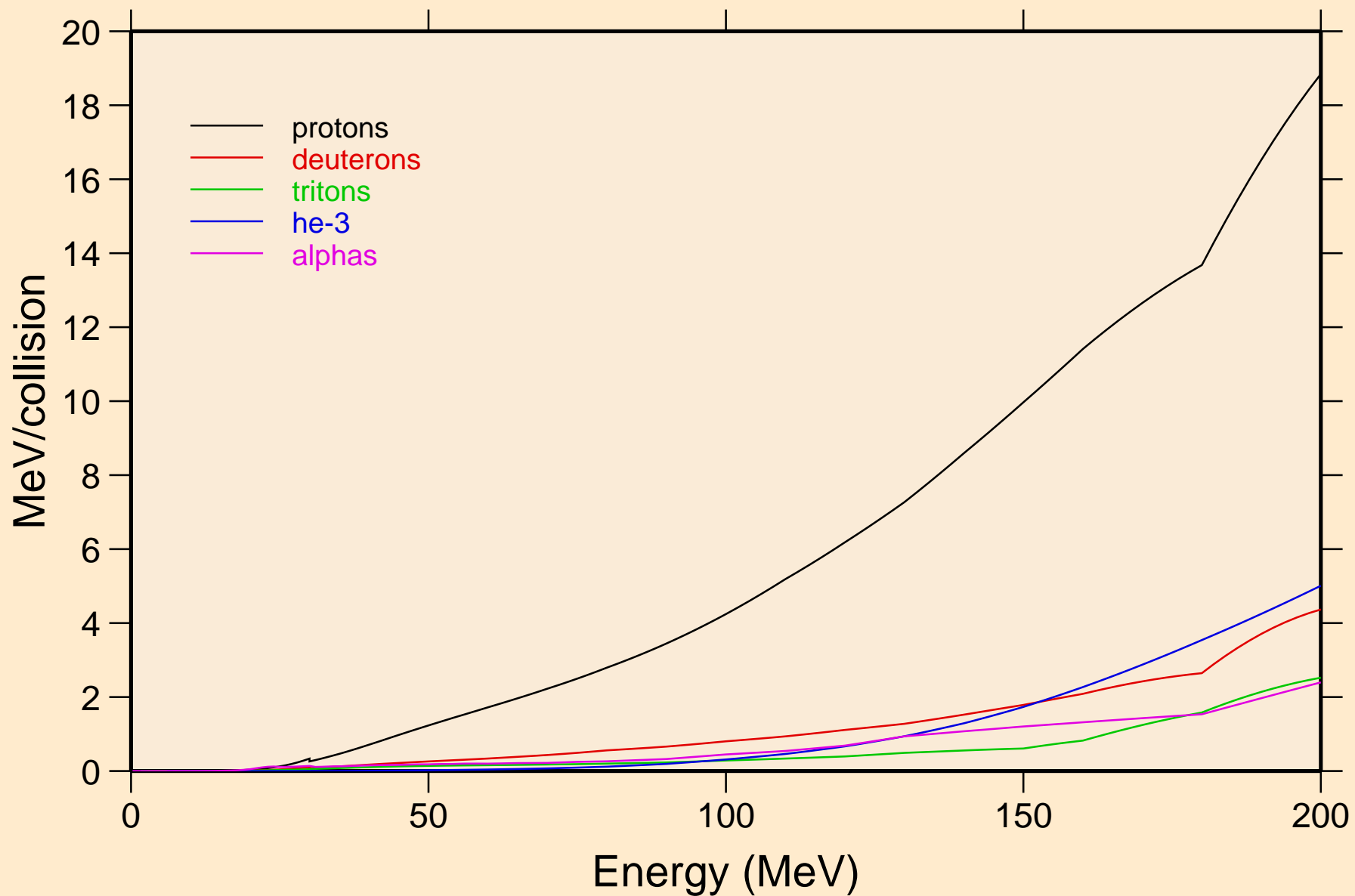


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

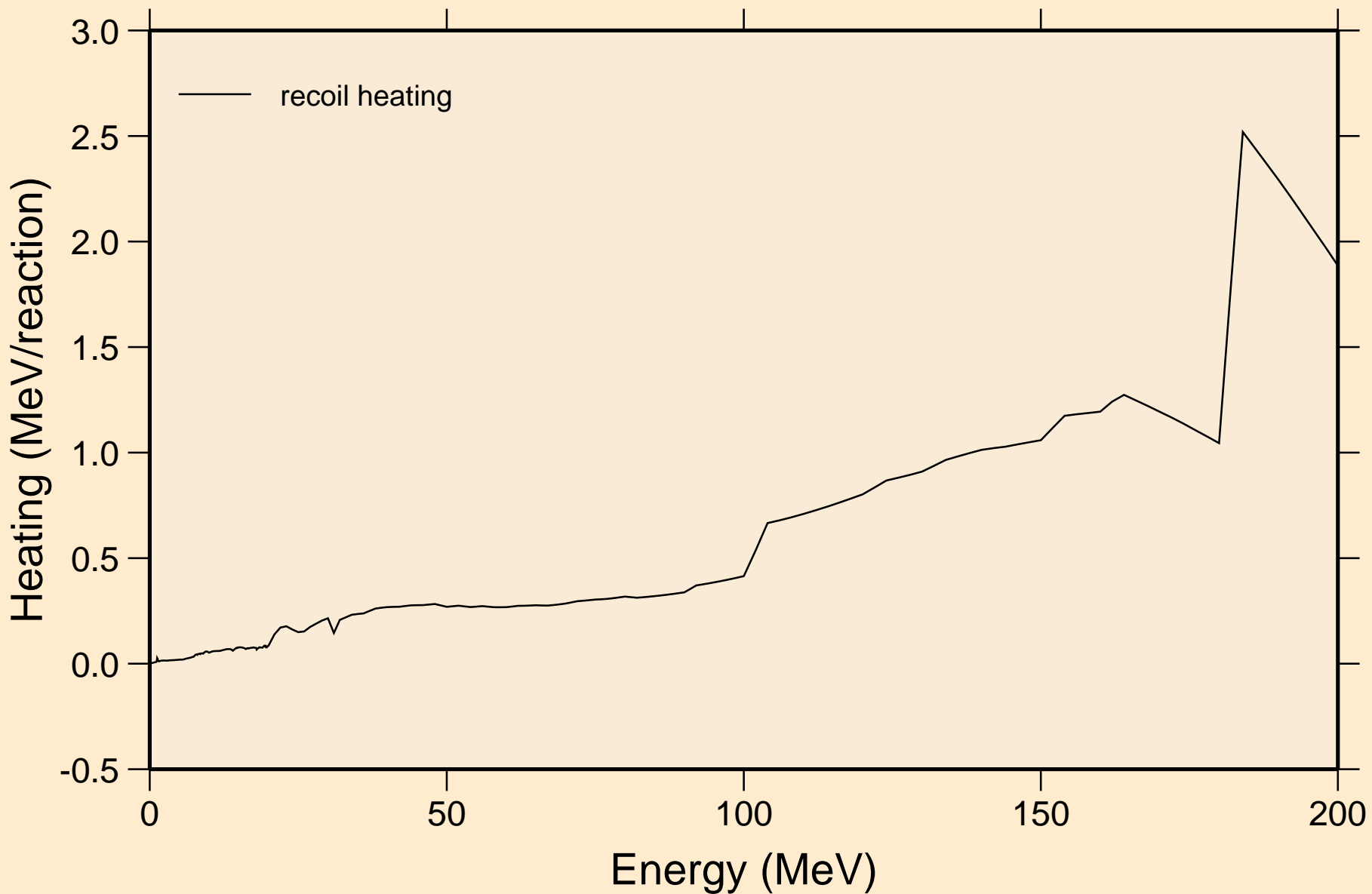


# BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

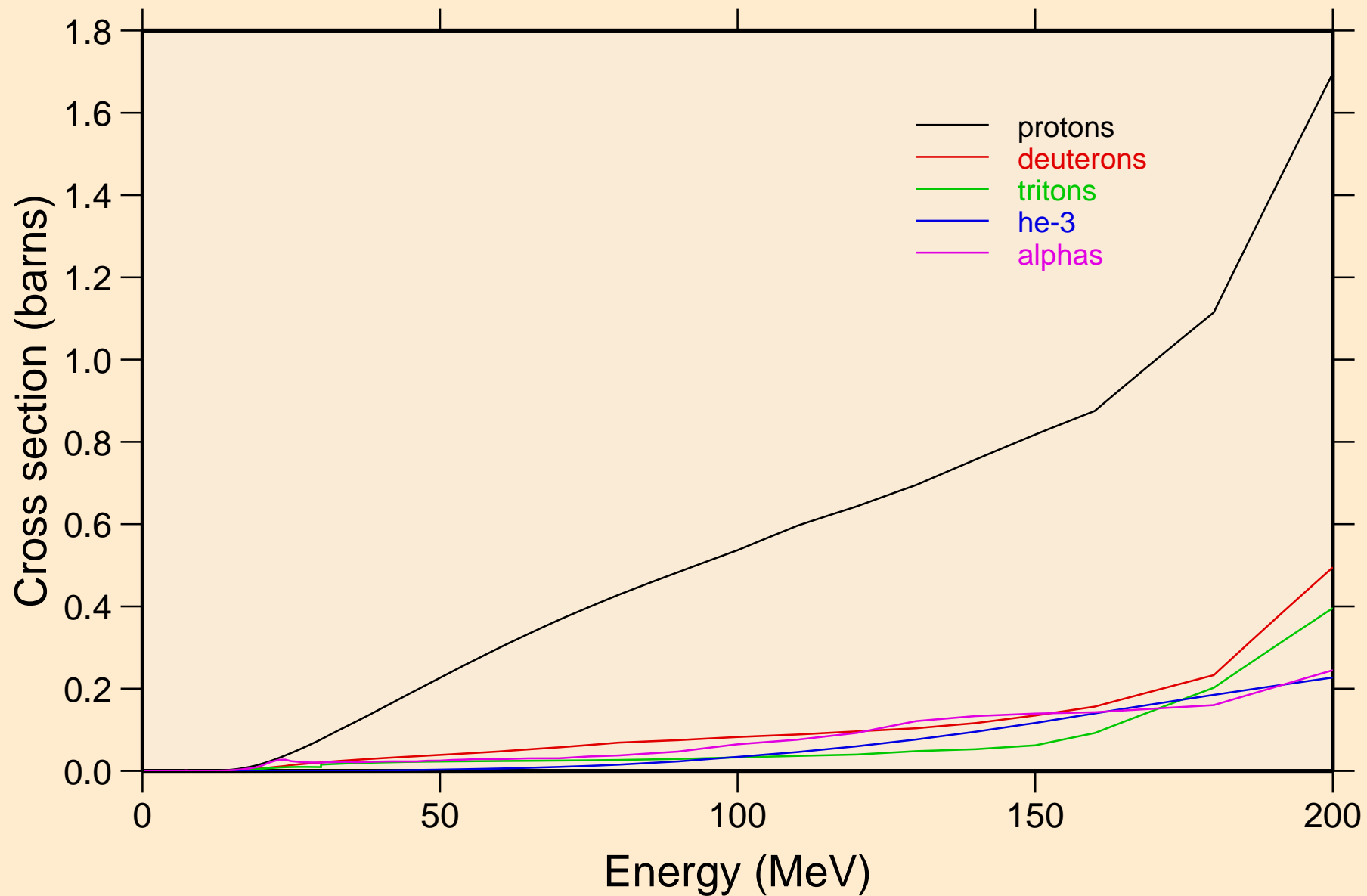
## Particle heating contributions



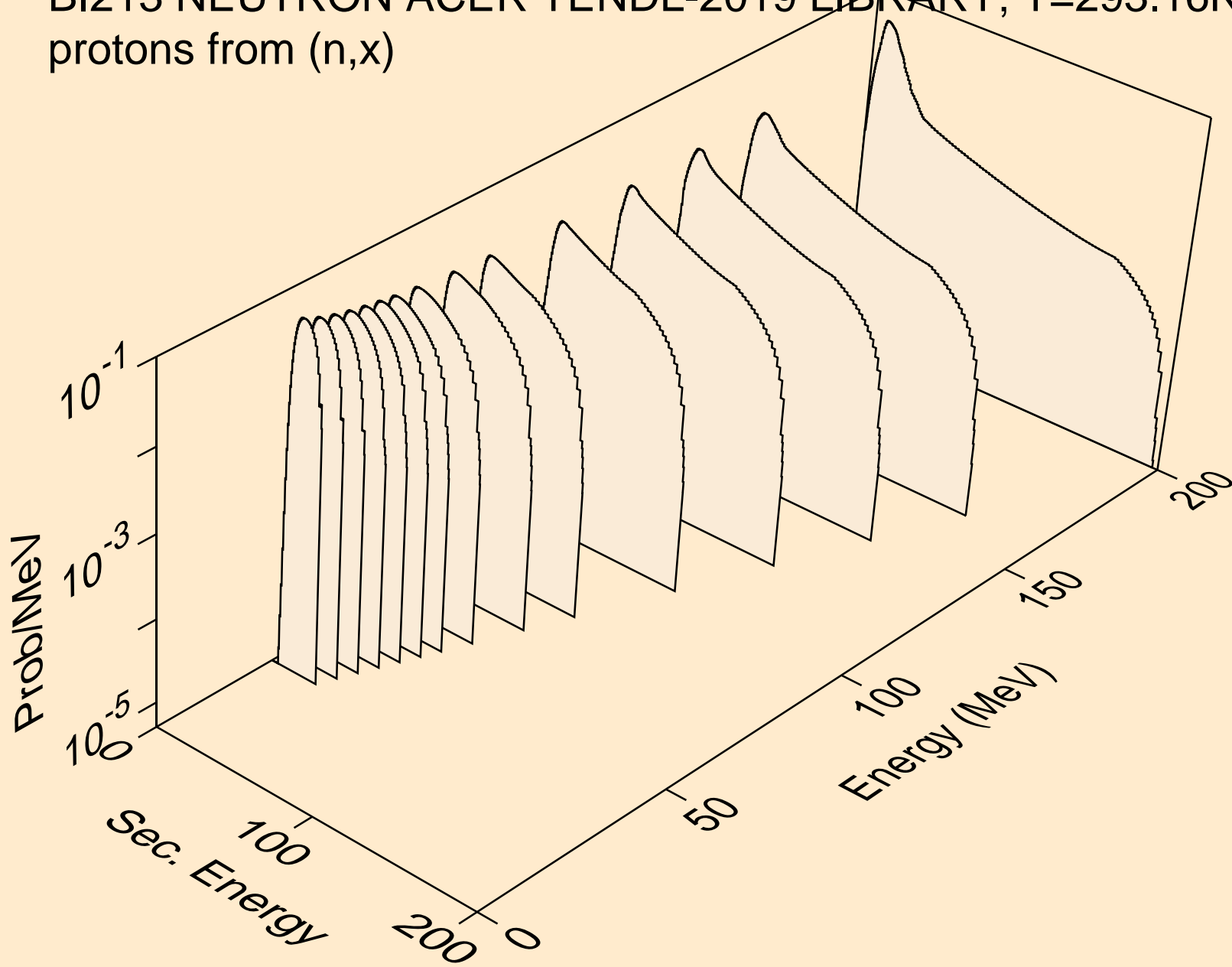
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections

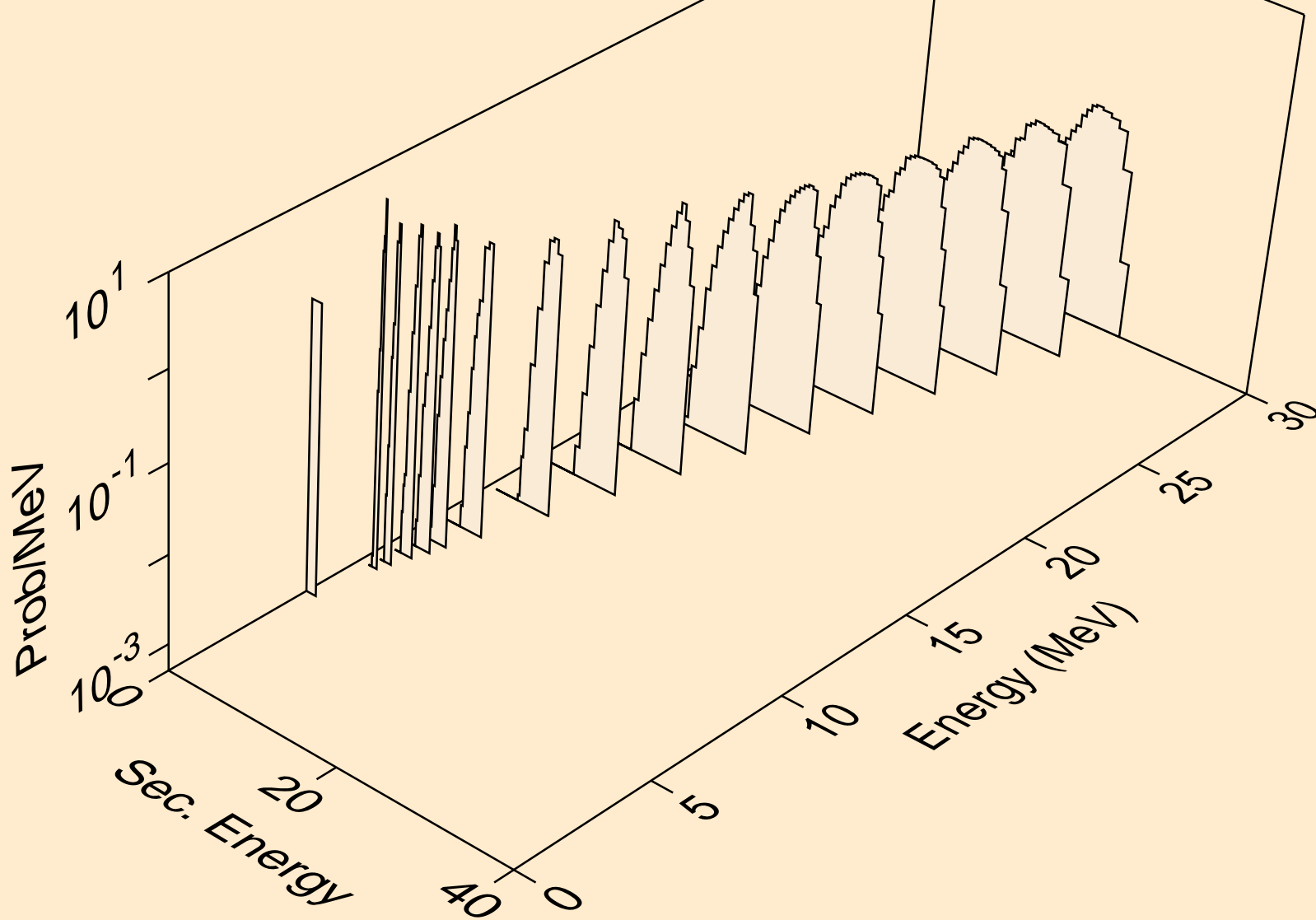


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

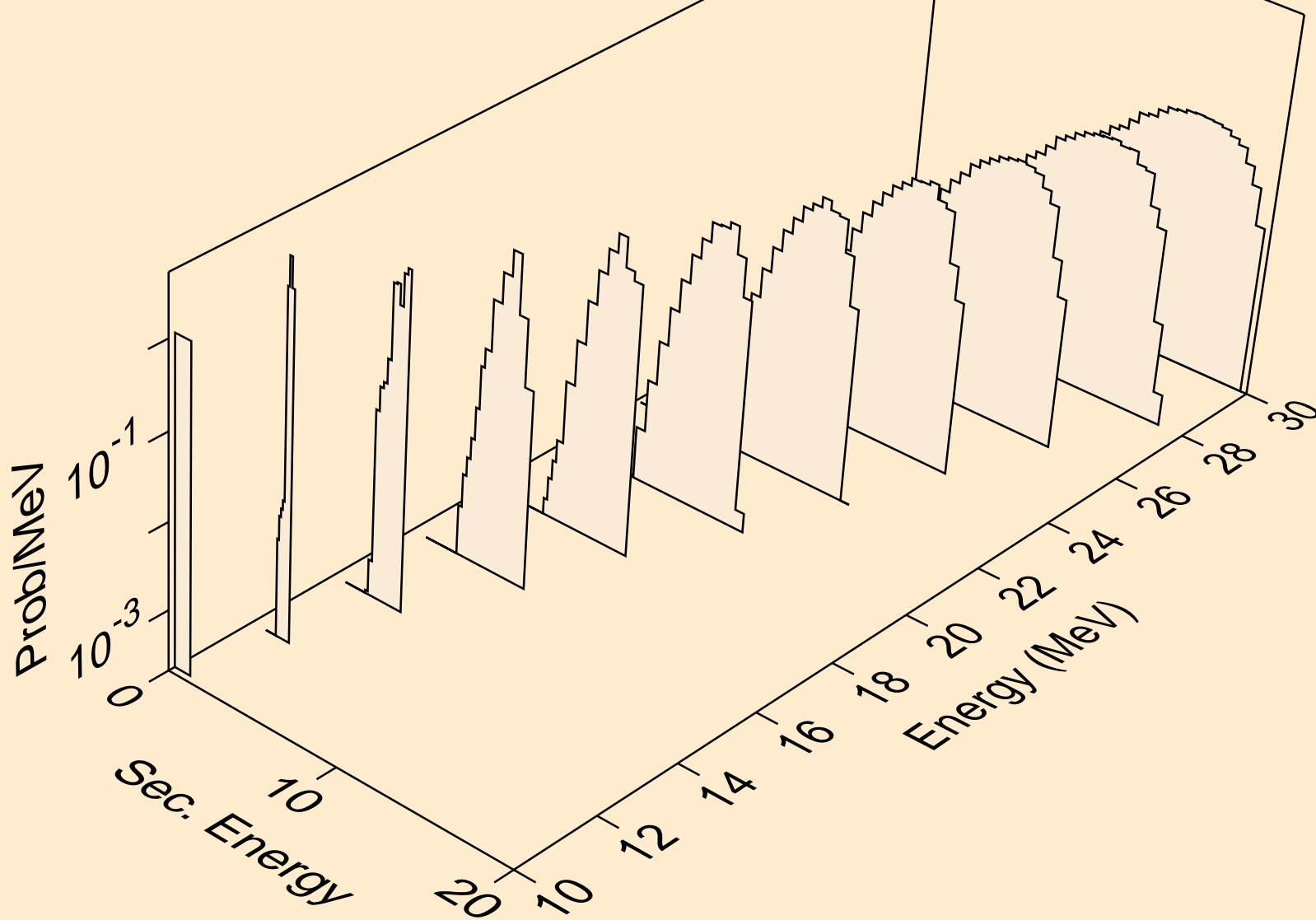




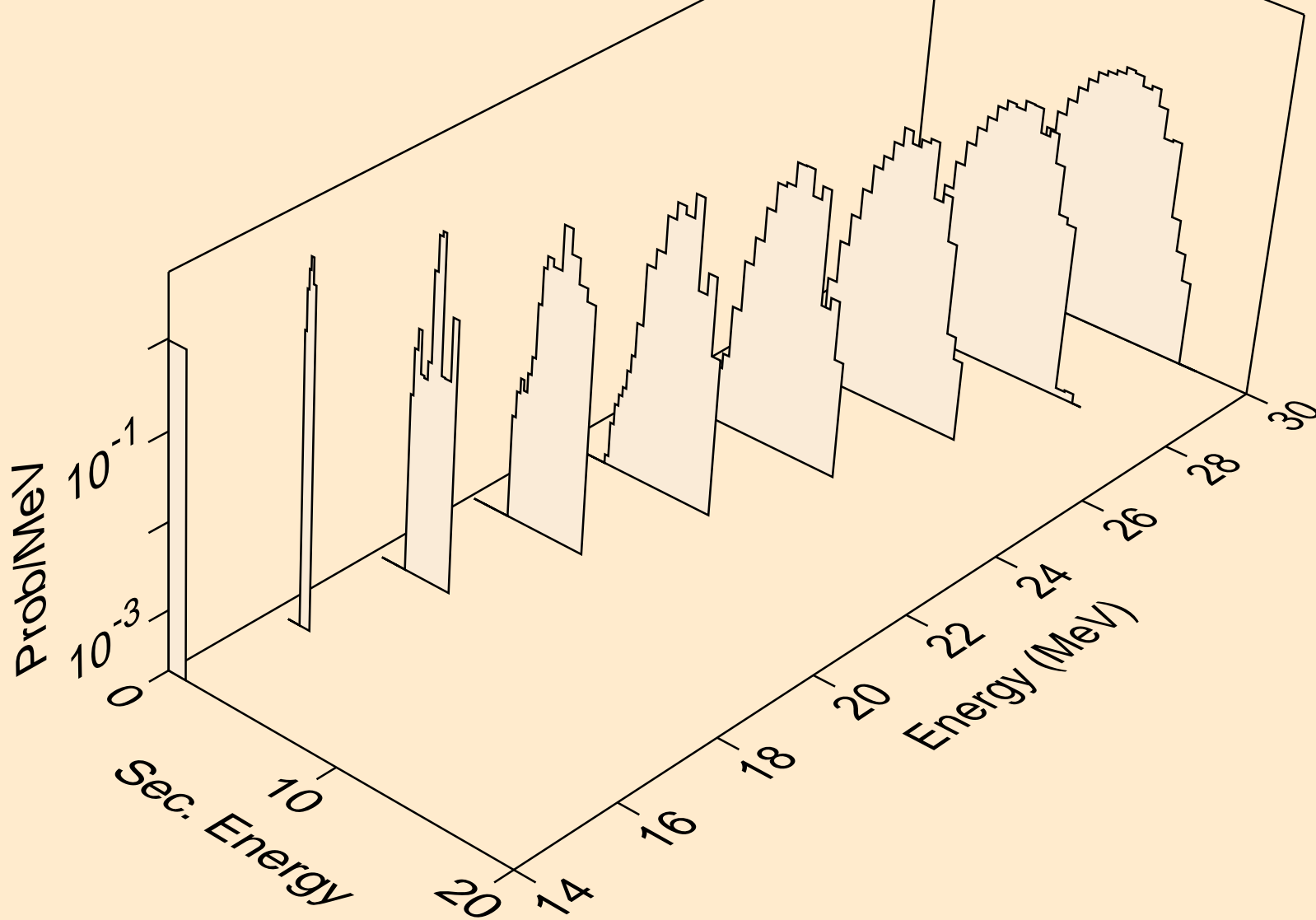
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



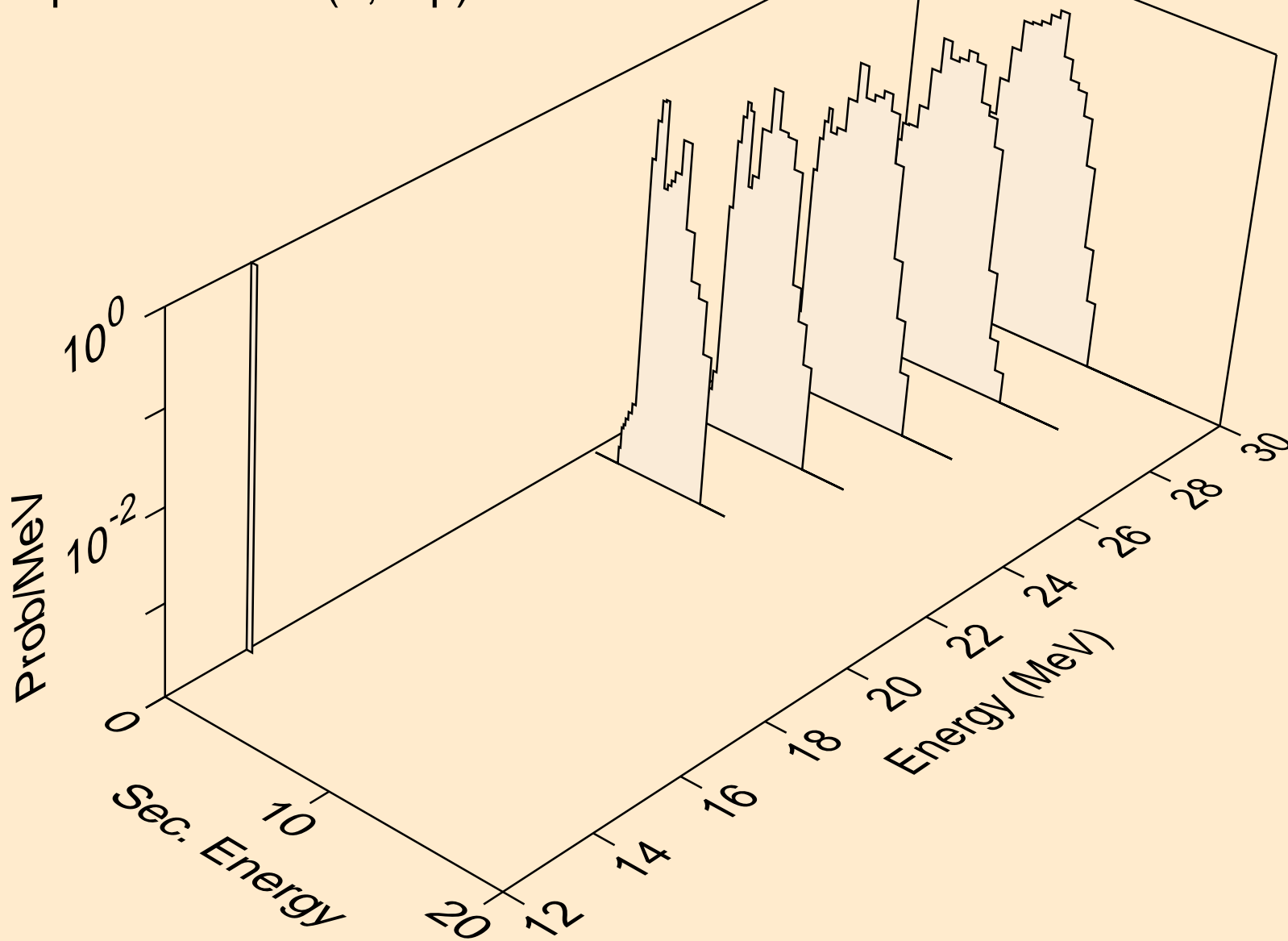
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



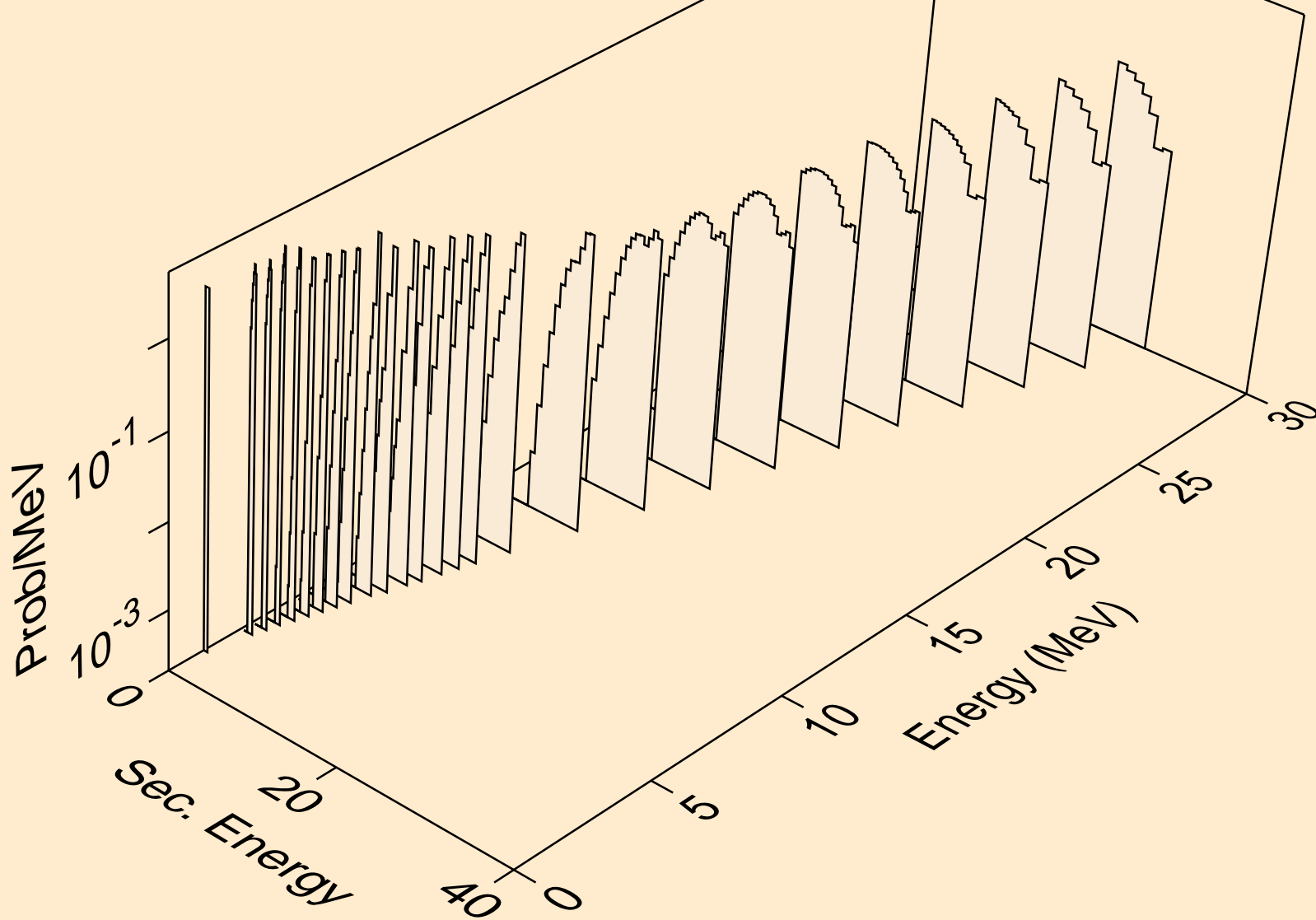
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)



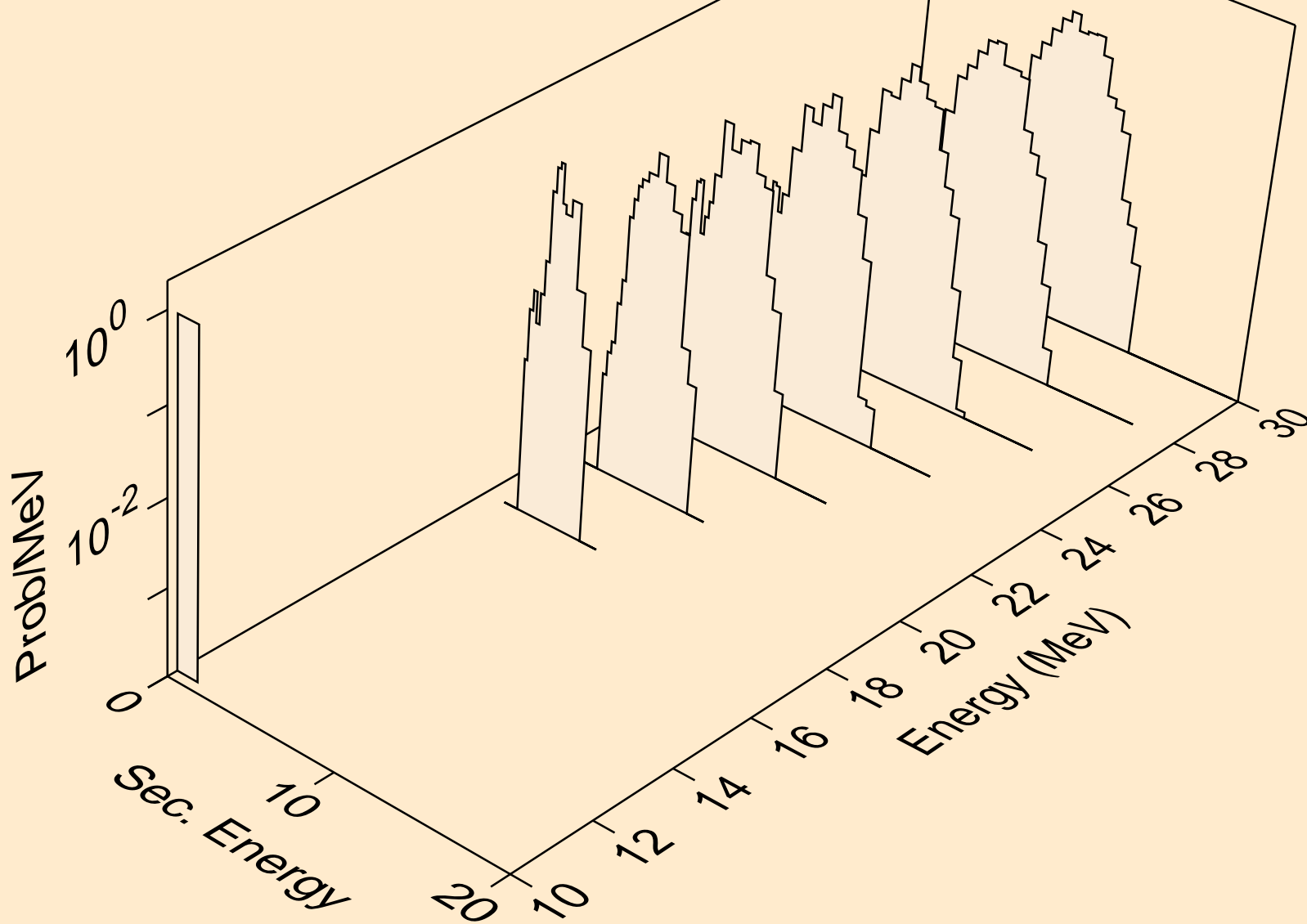
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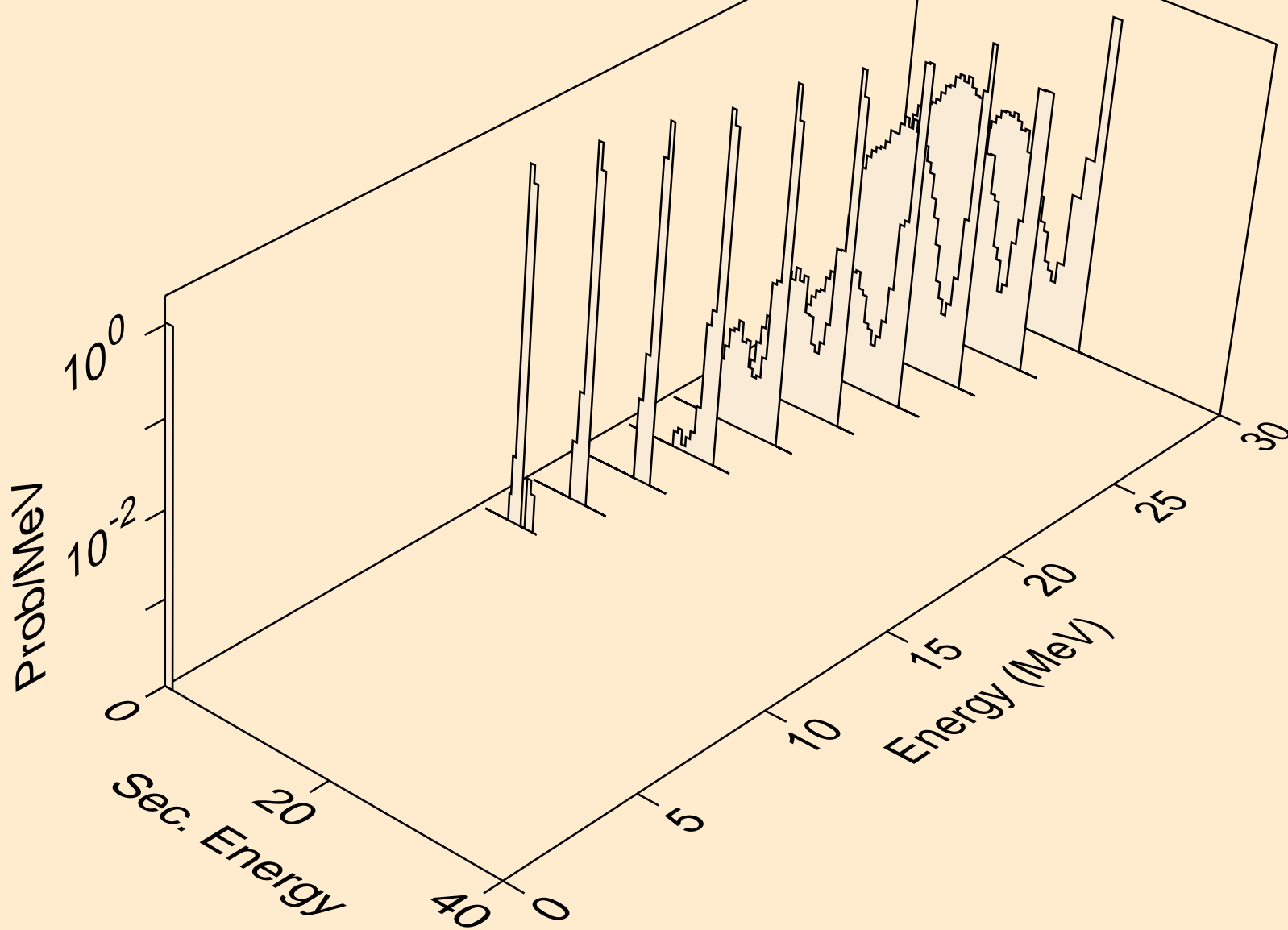
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



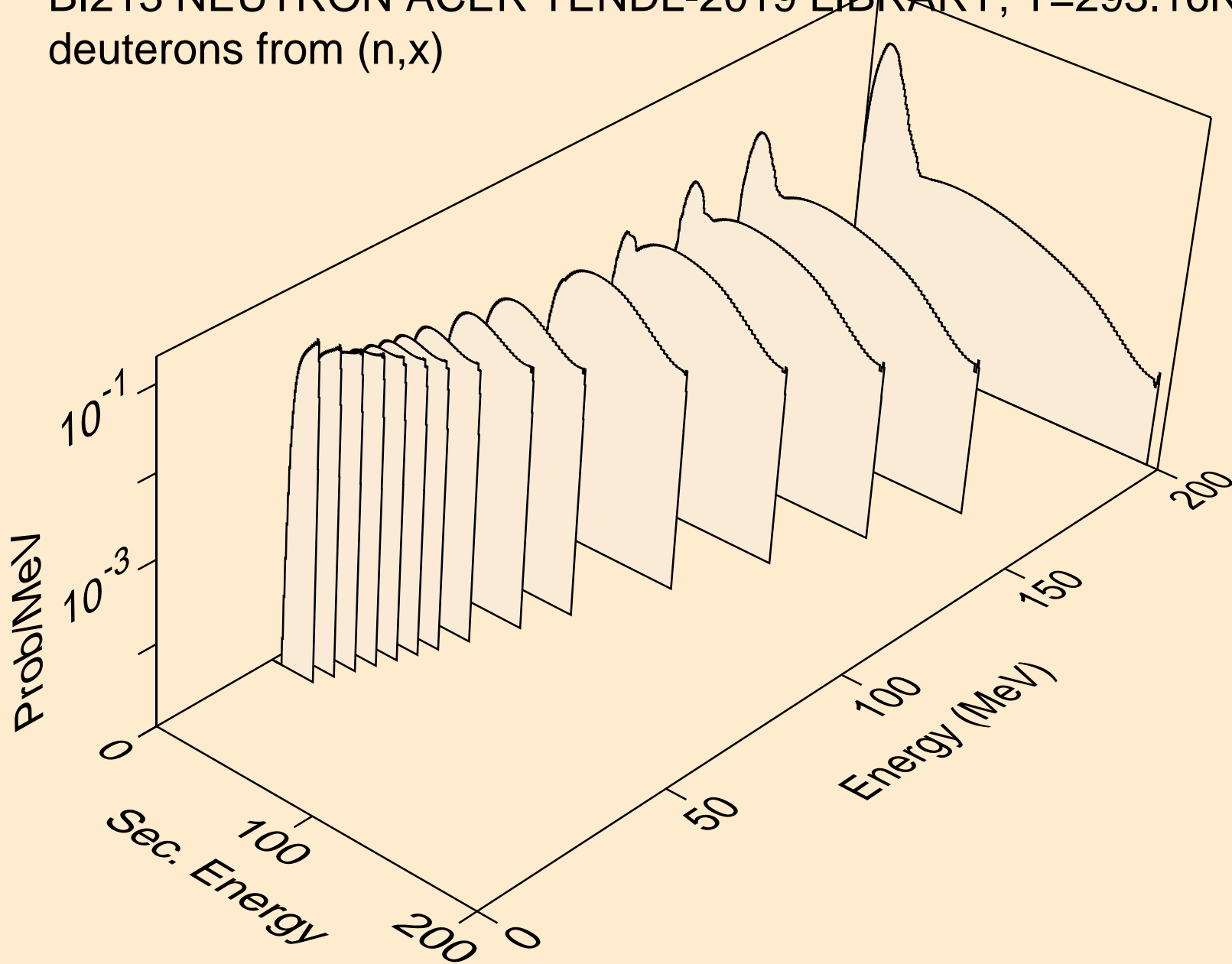
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protons from (n,2p)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pa)

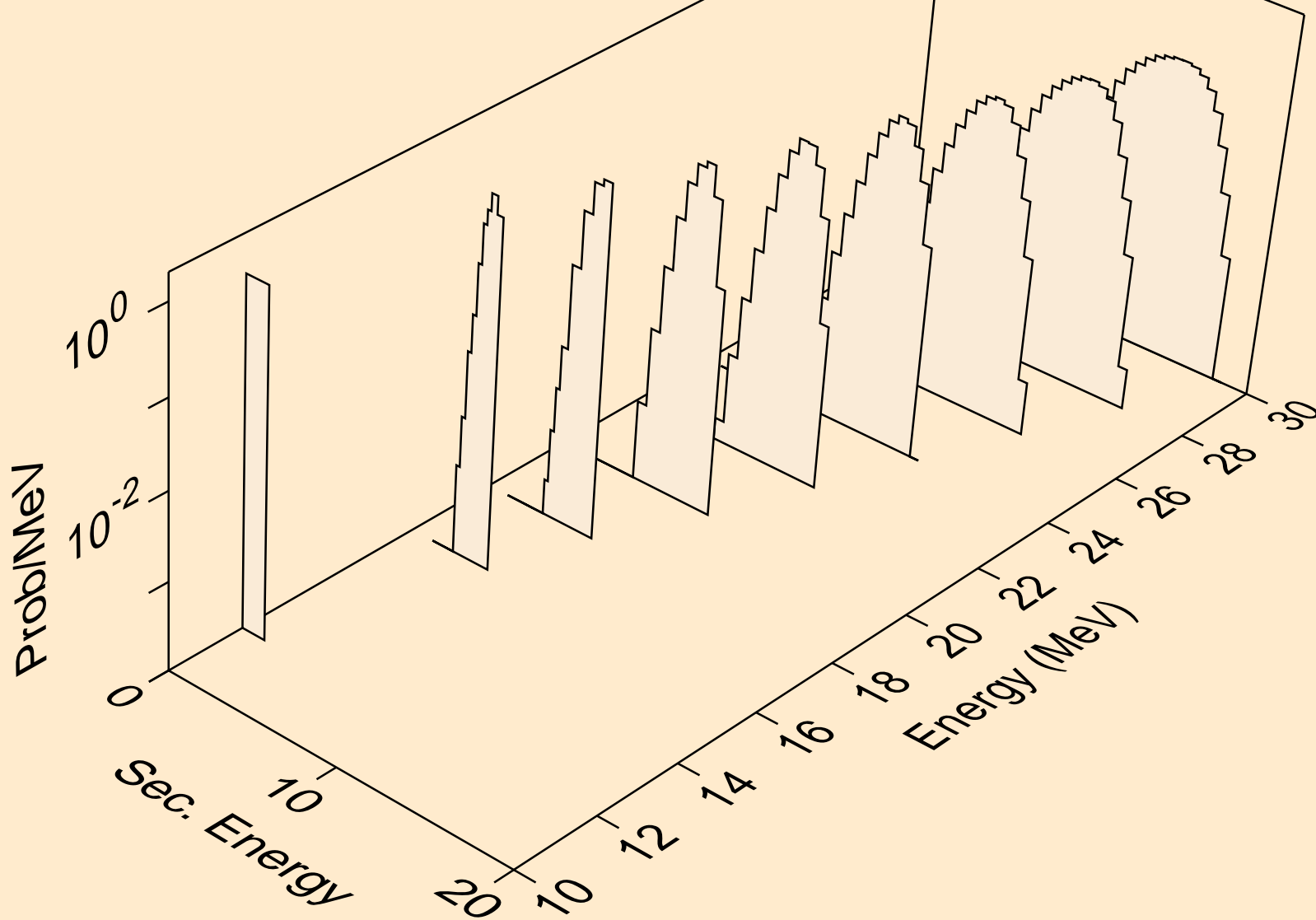


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)

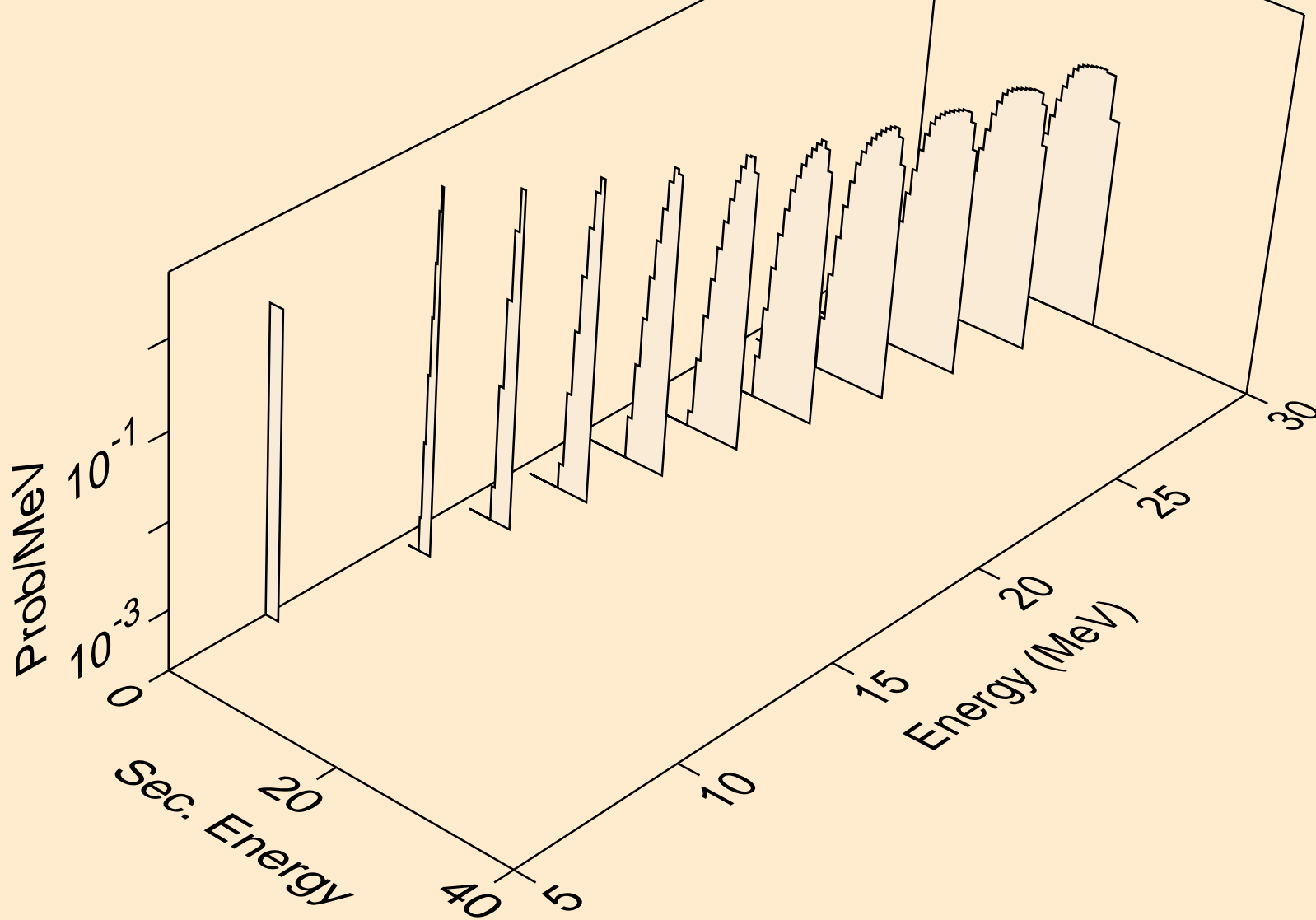




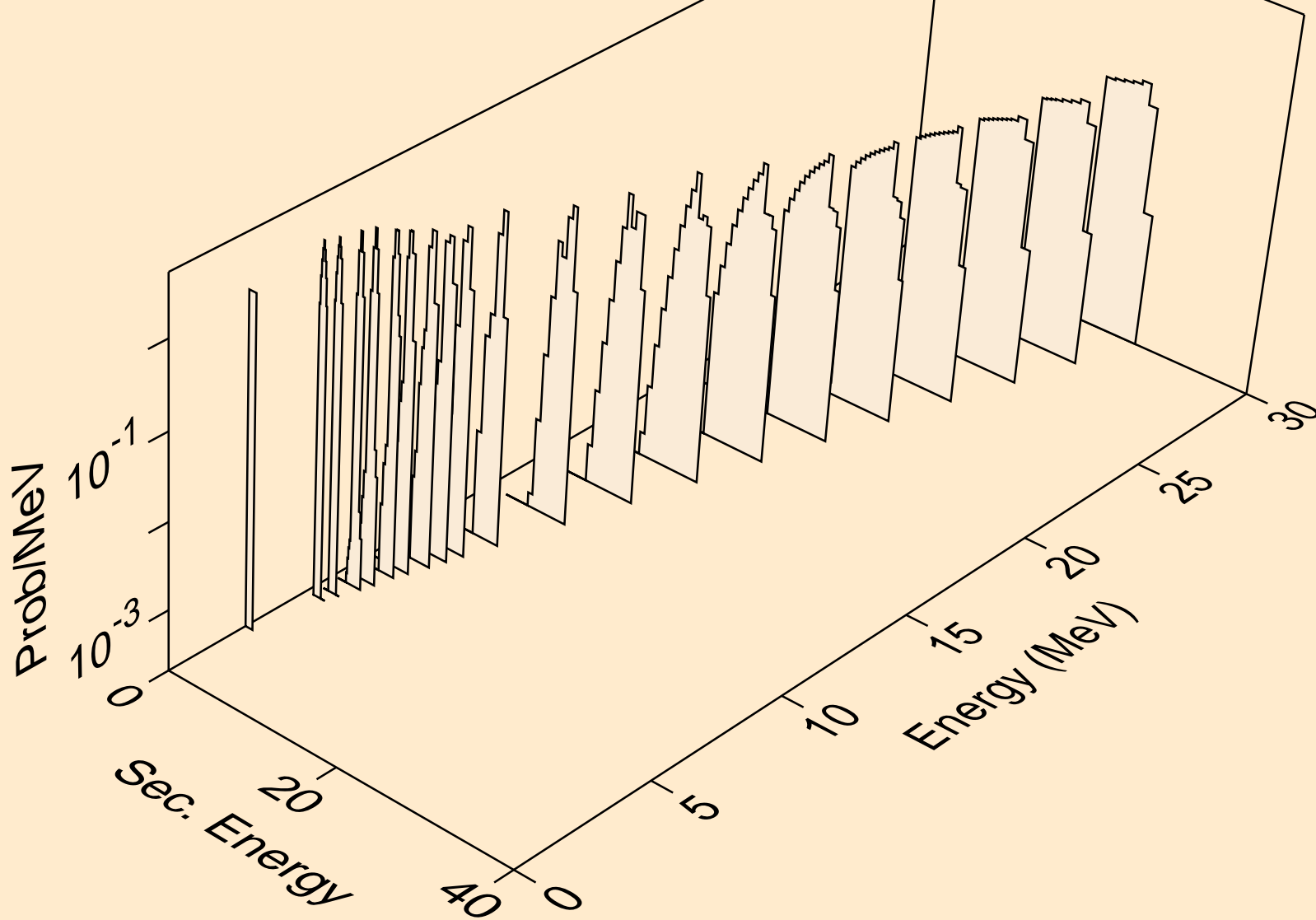
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



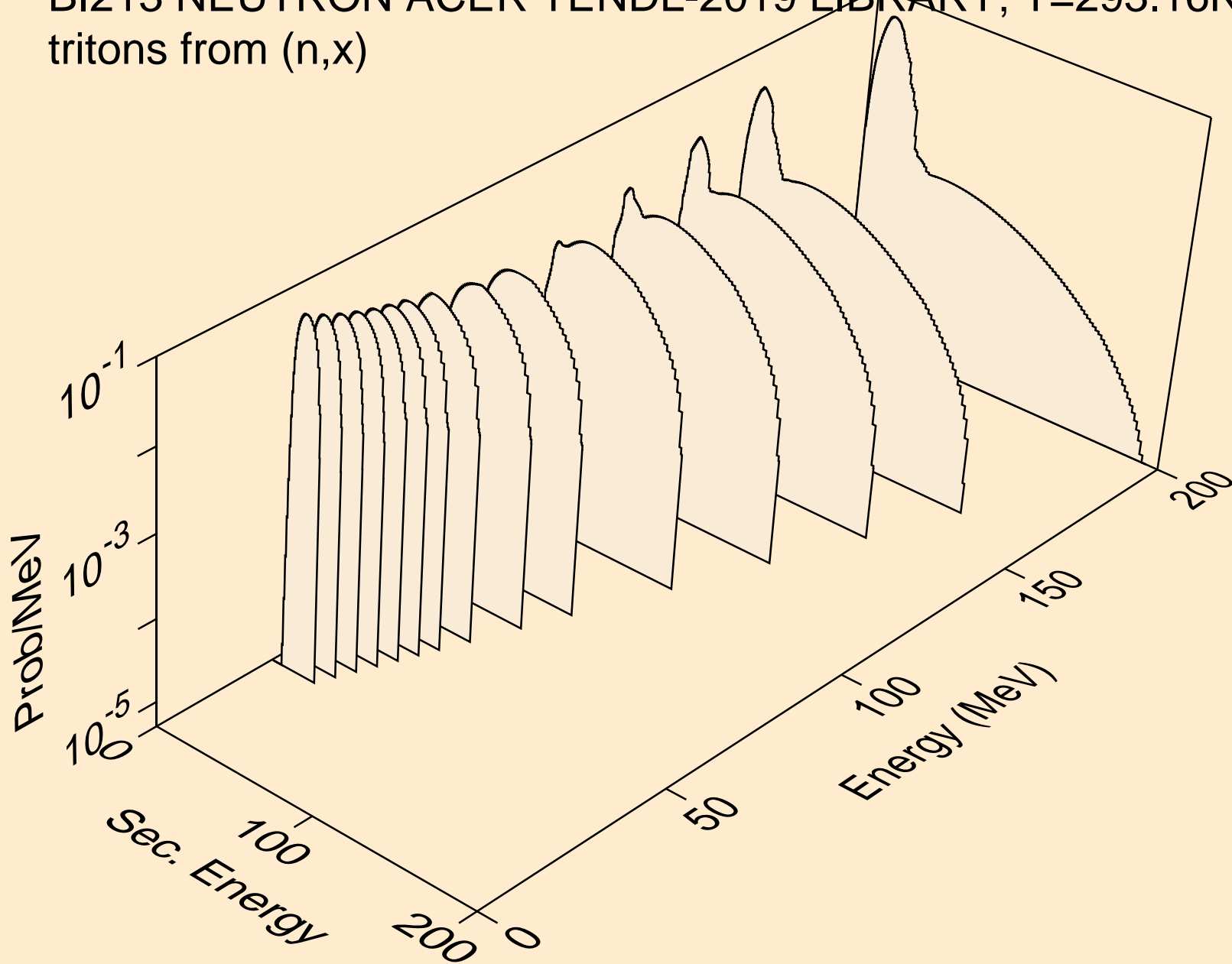
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



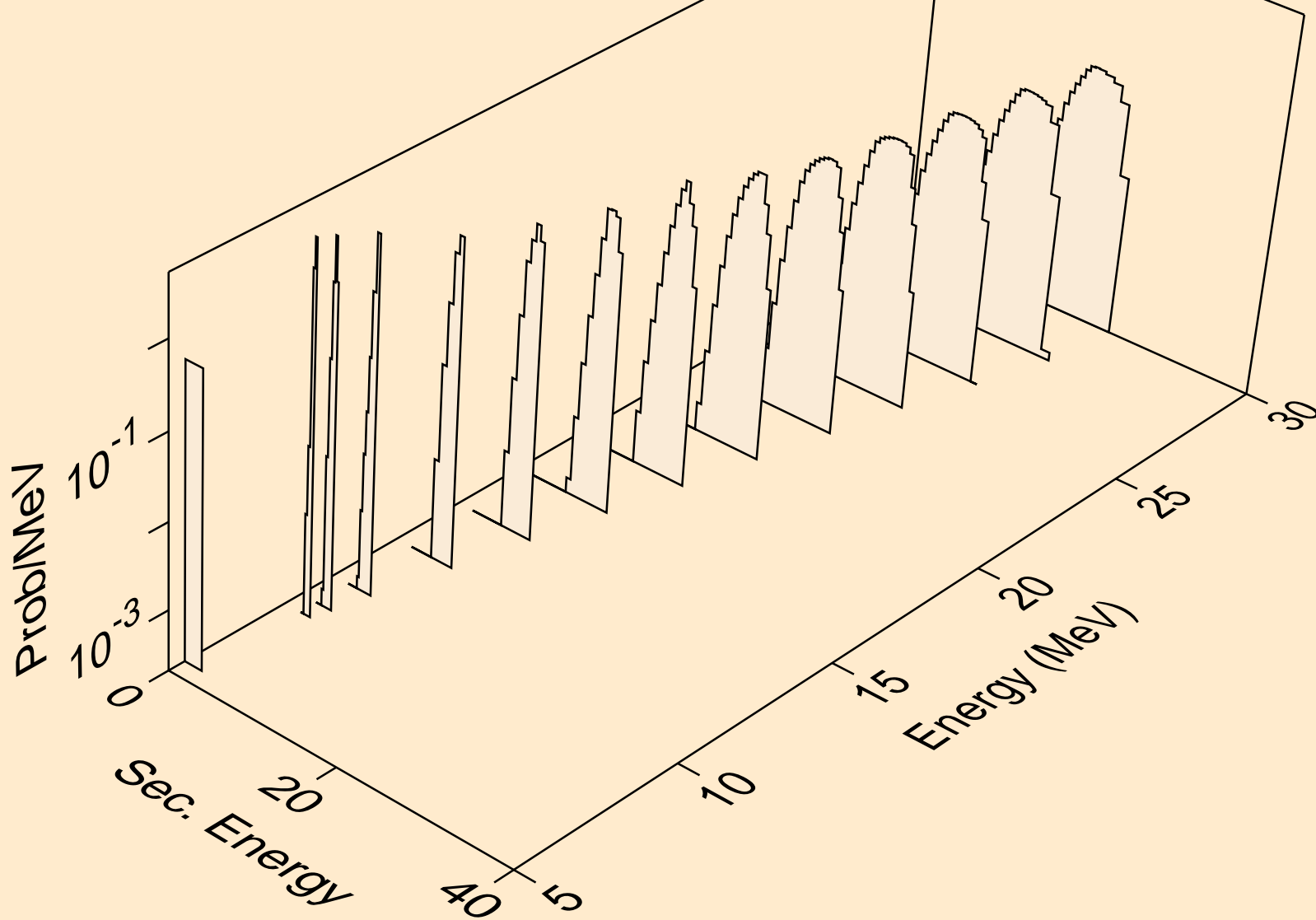
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deuterons from (n,d)



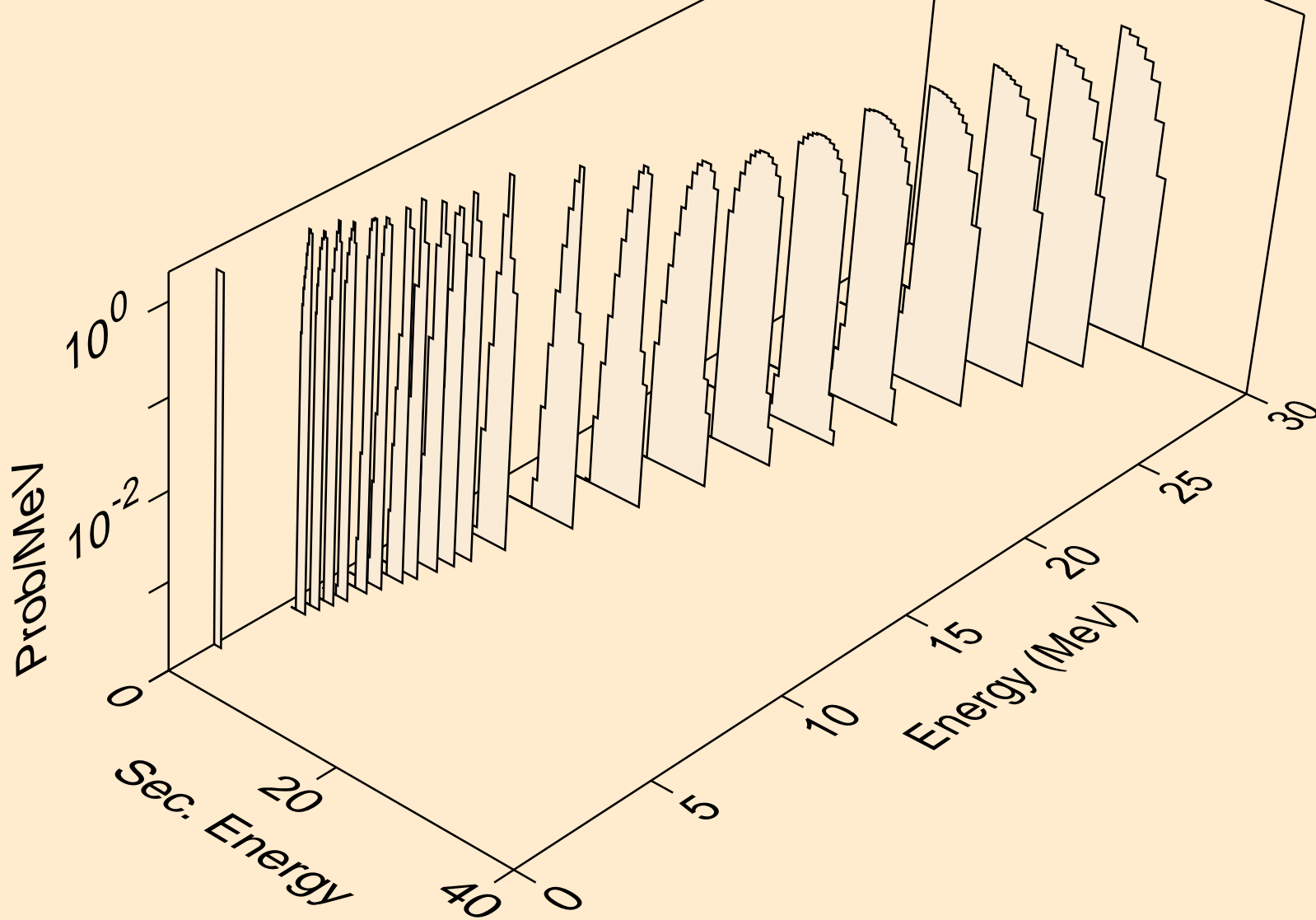
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)



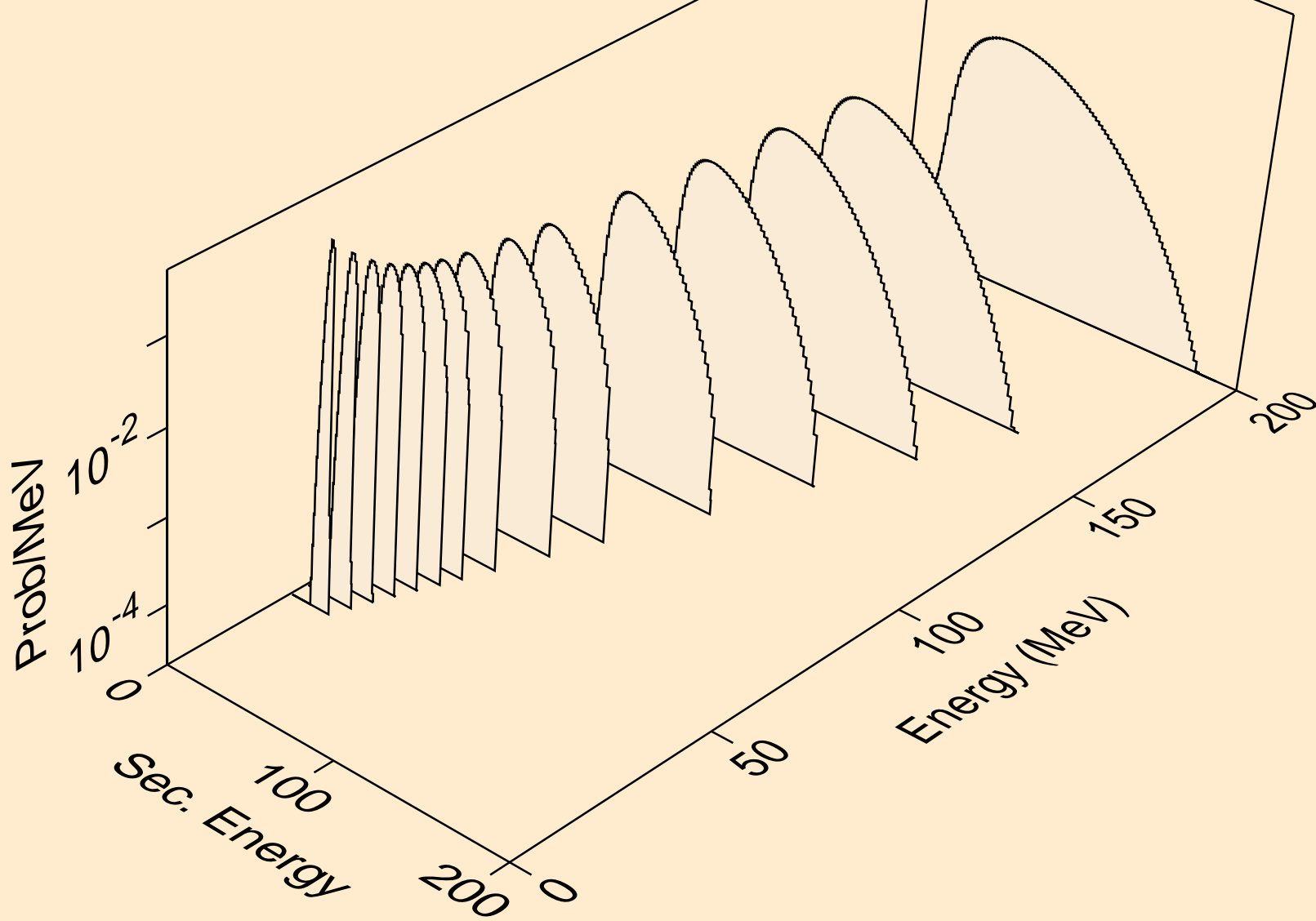
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



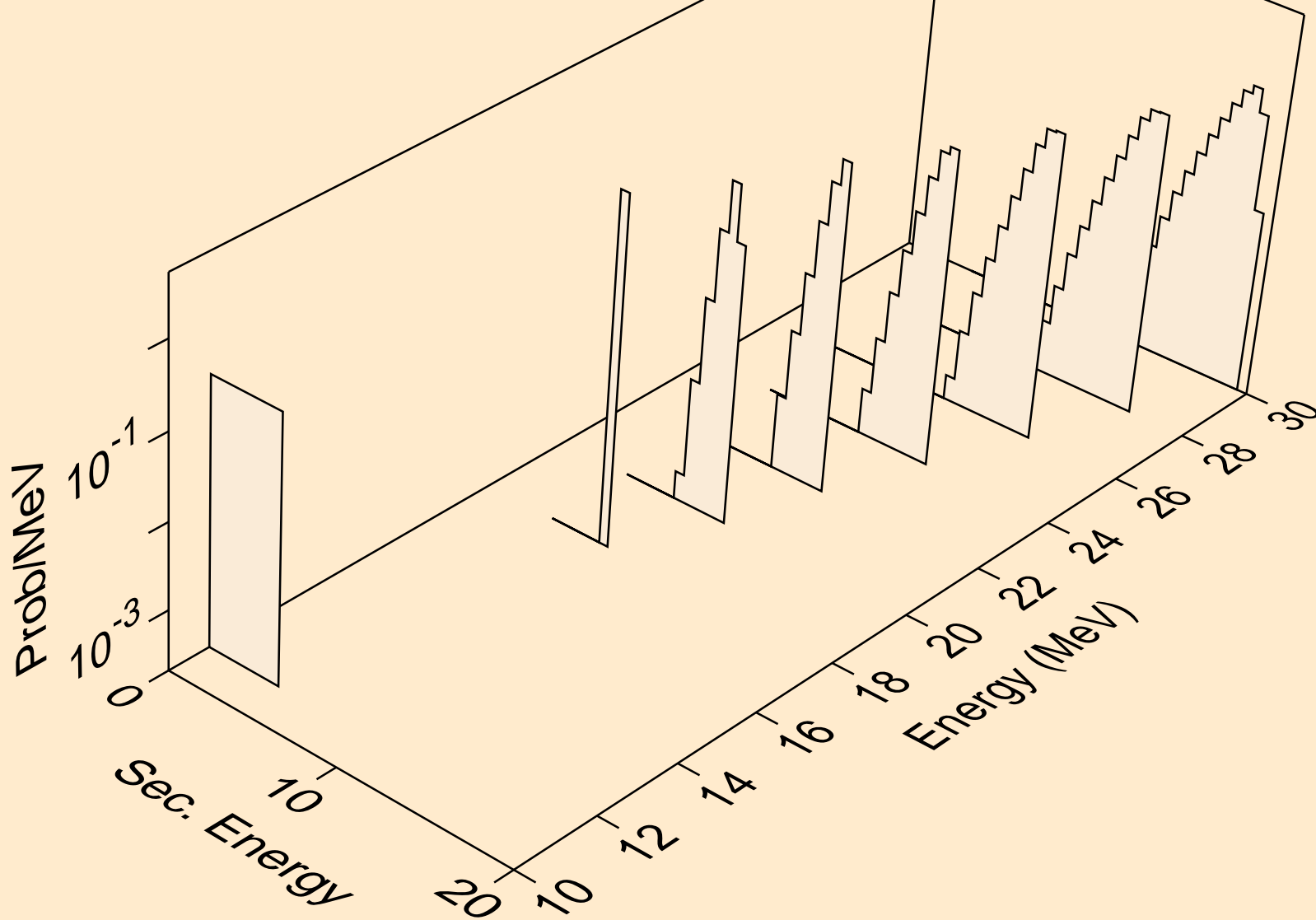
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)

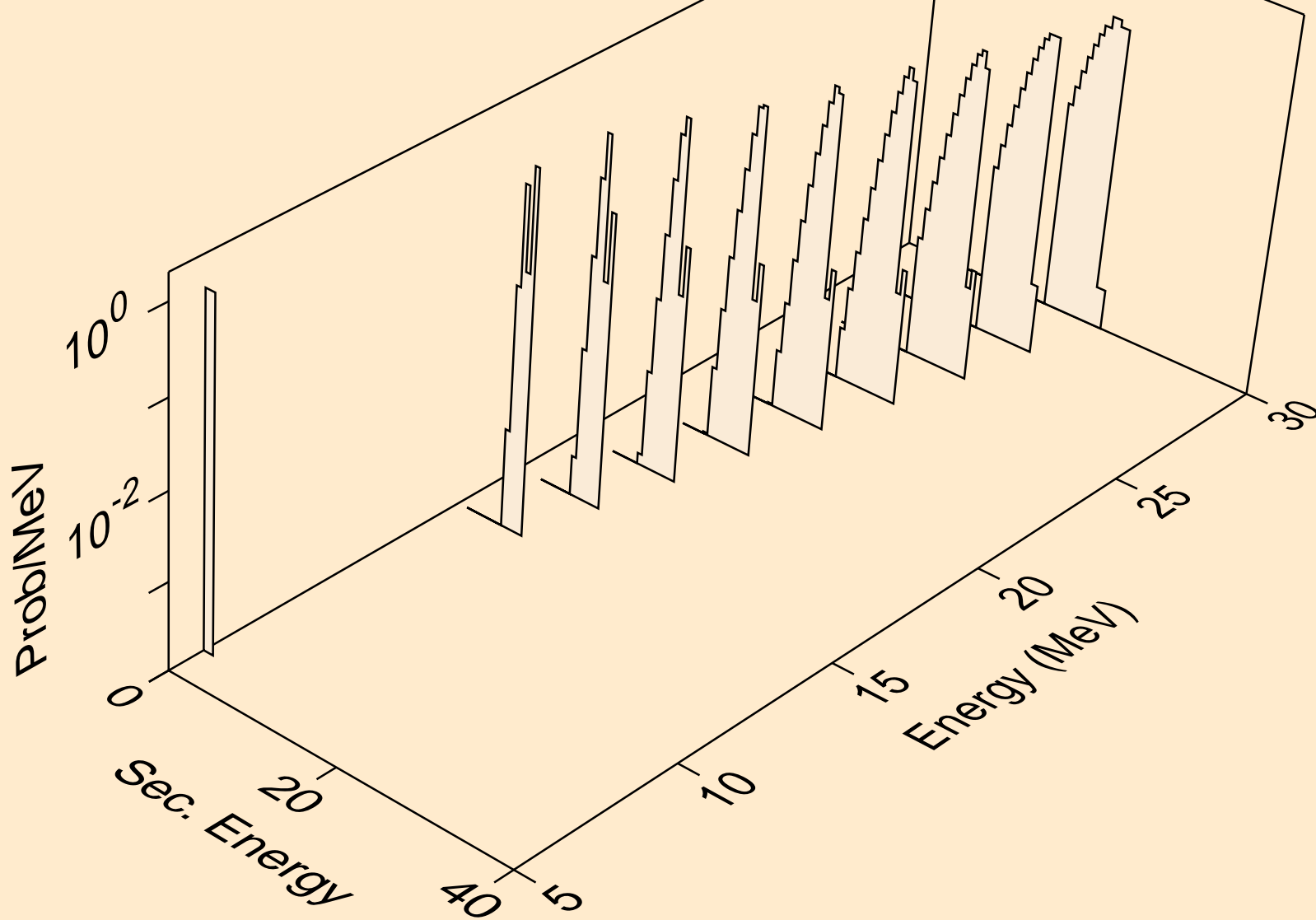


BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

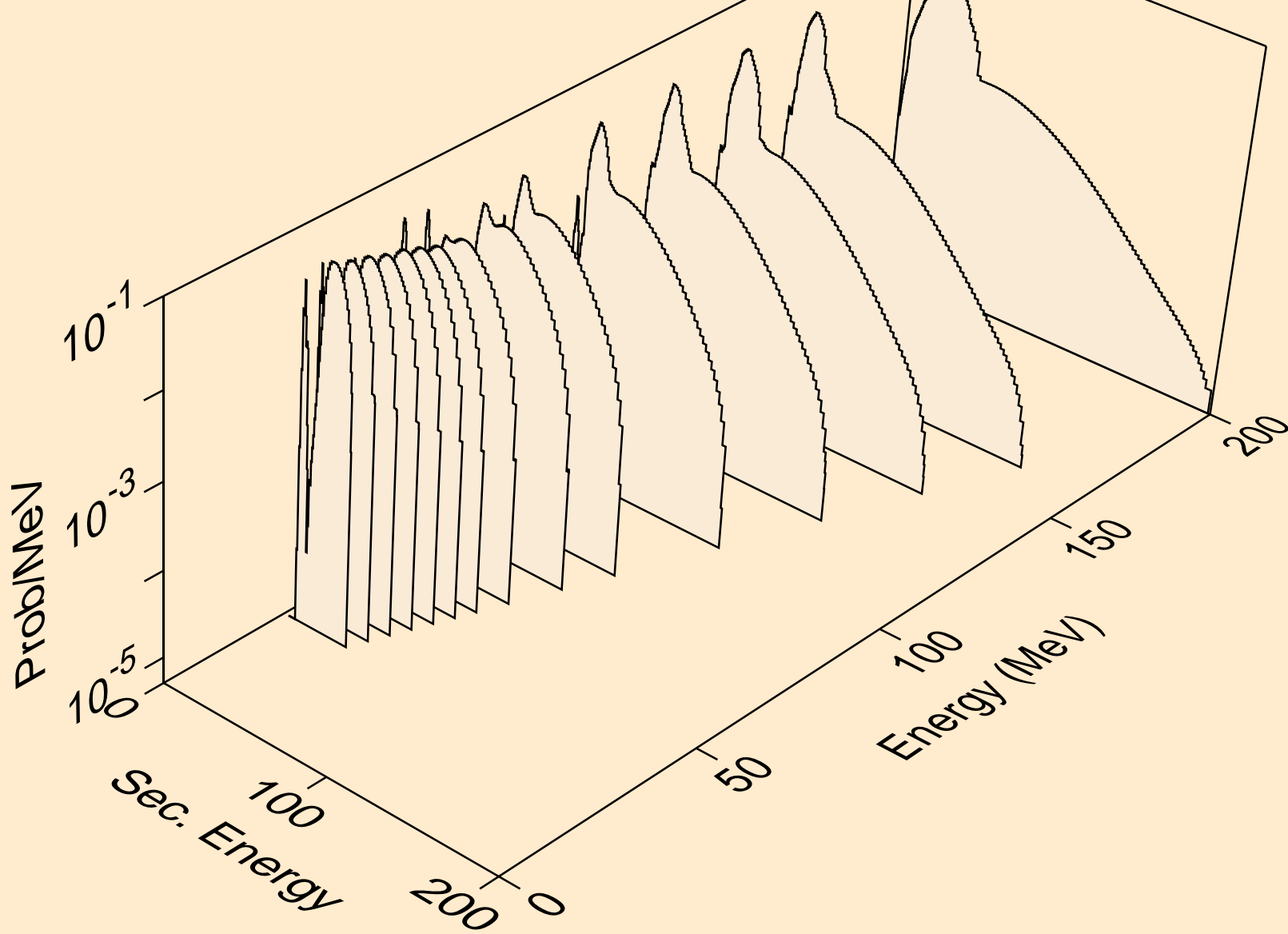




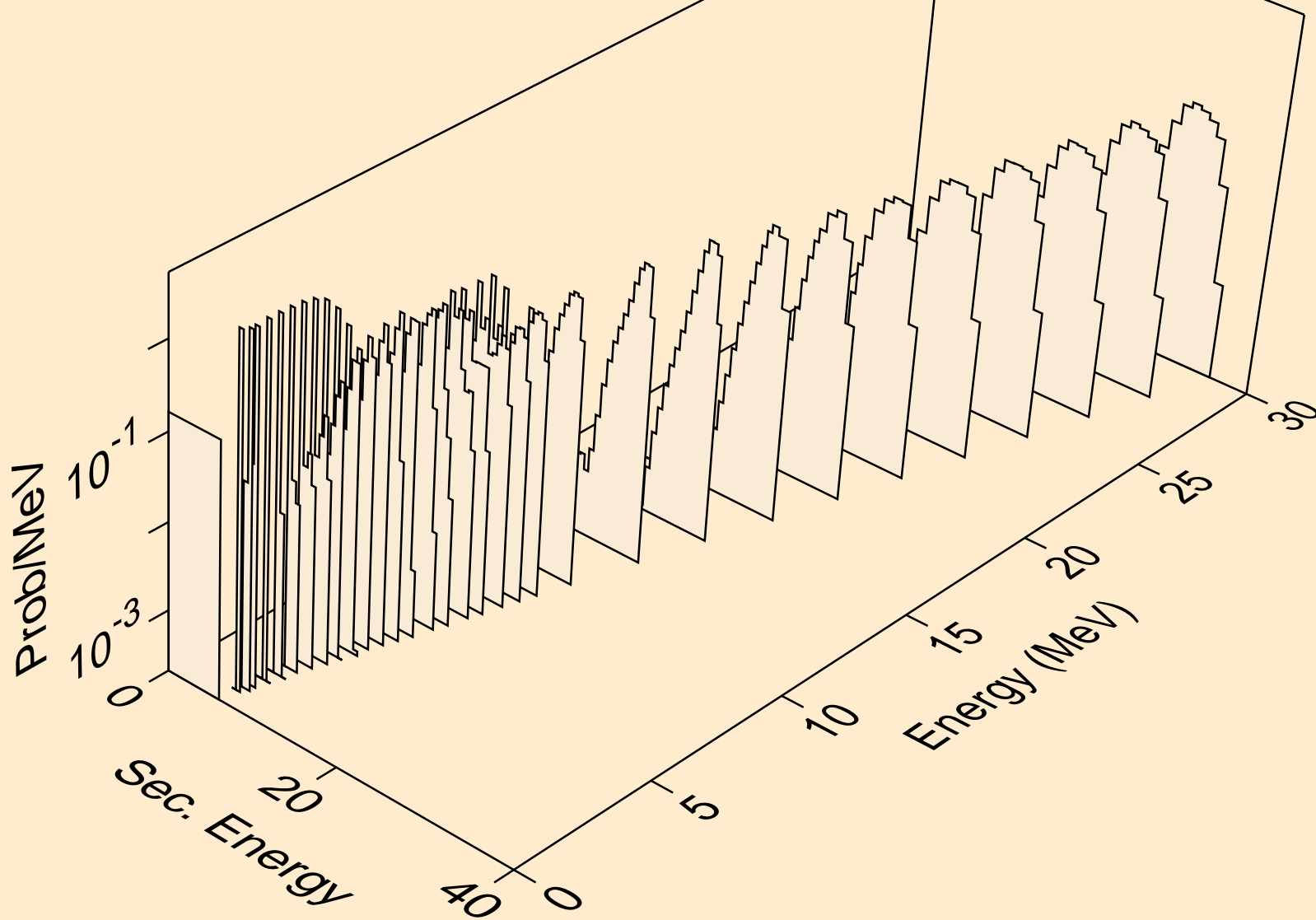
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)



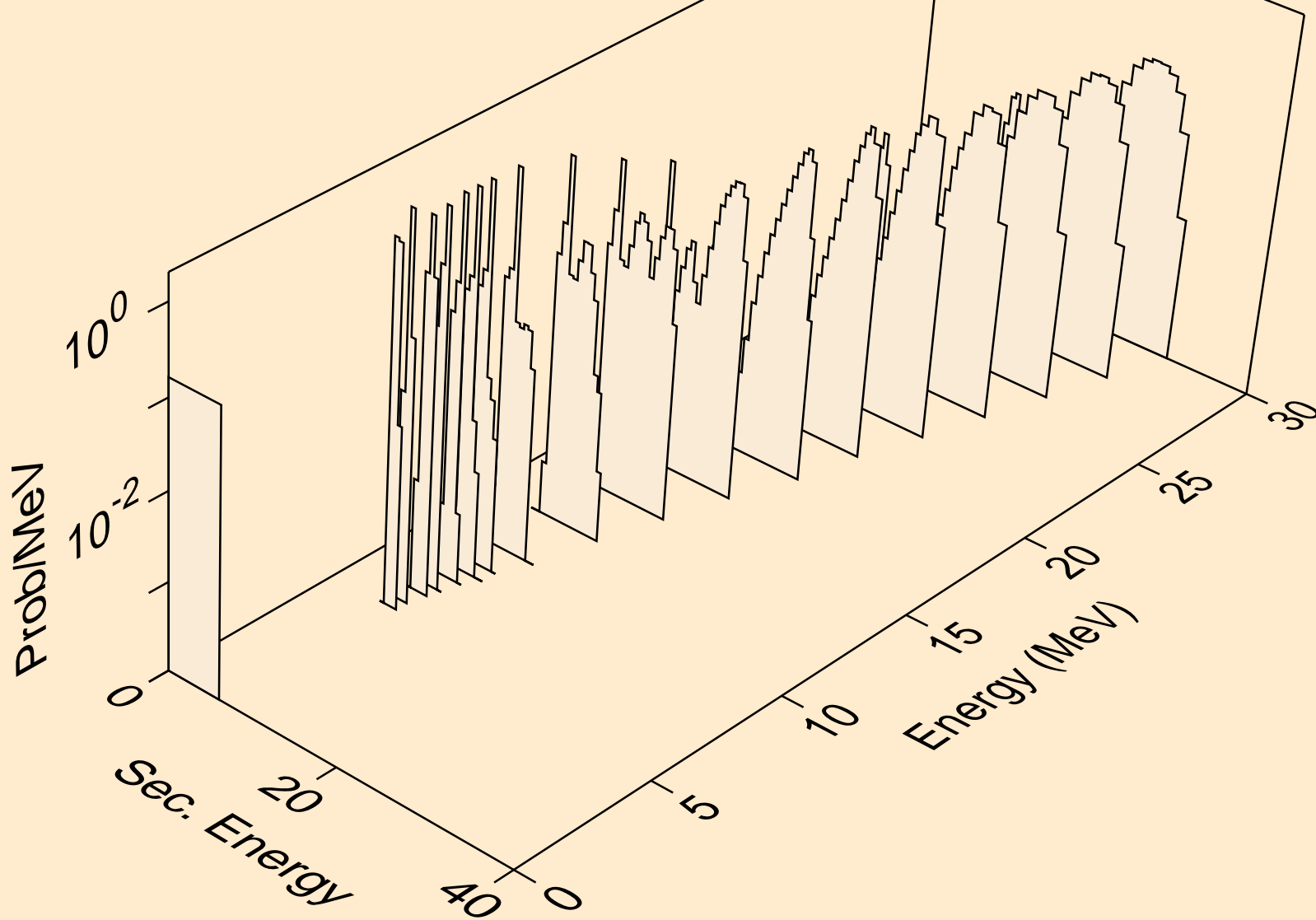
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



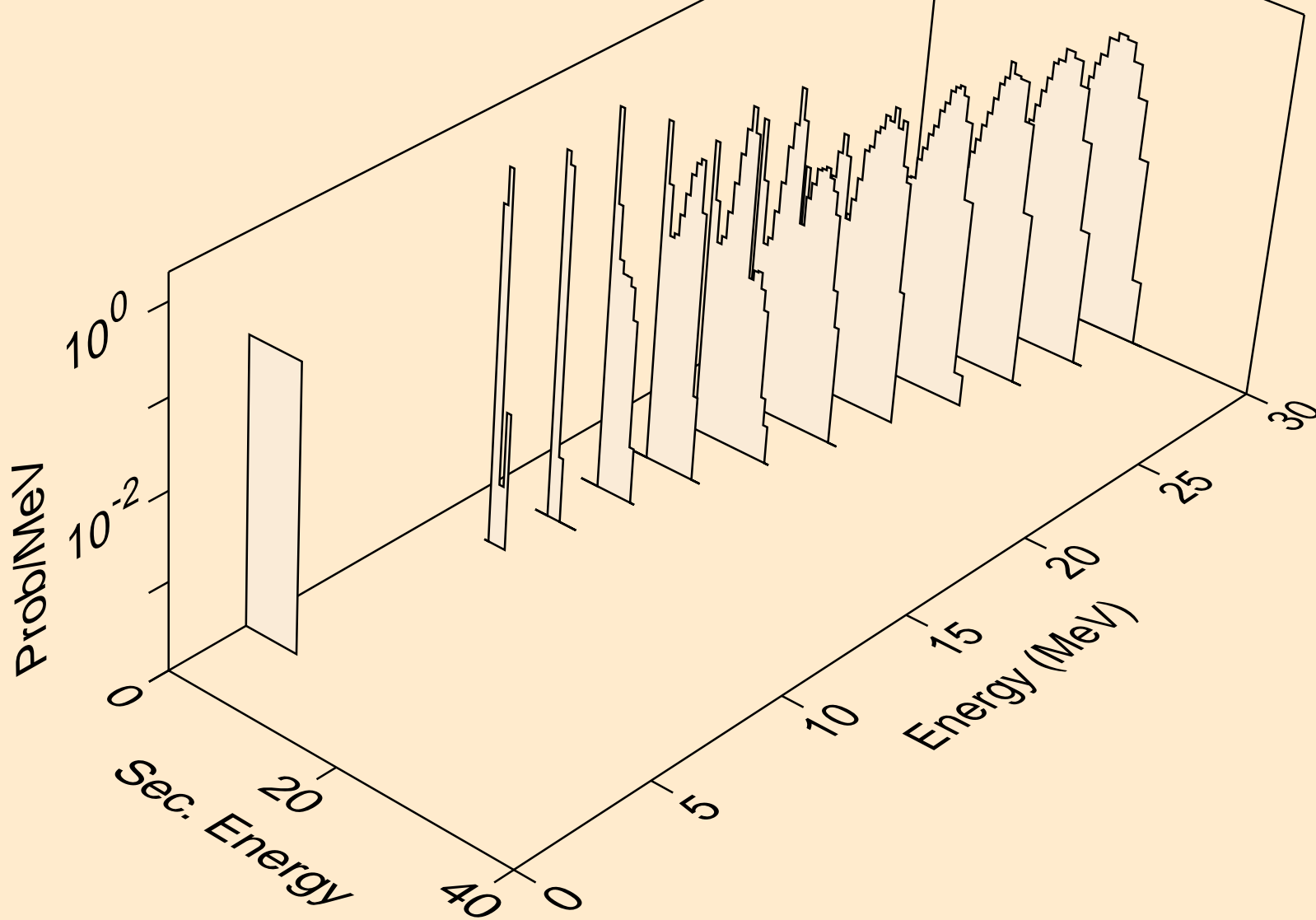
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



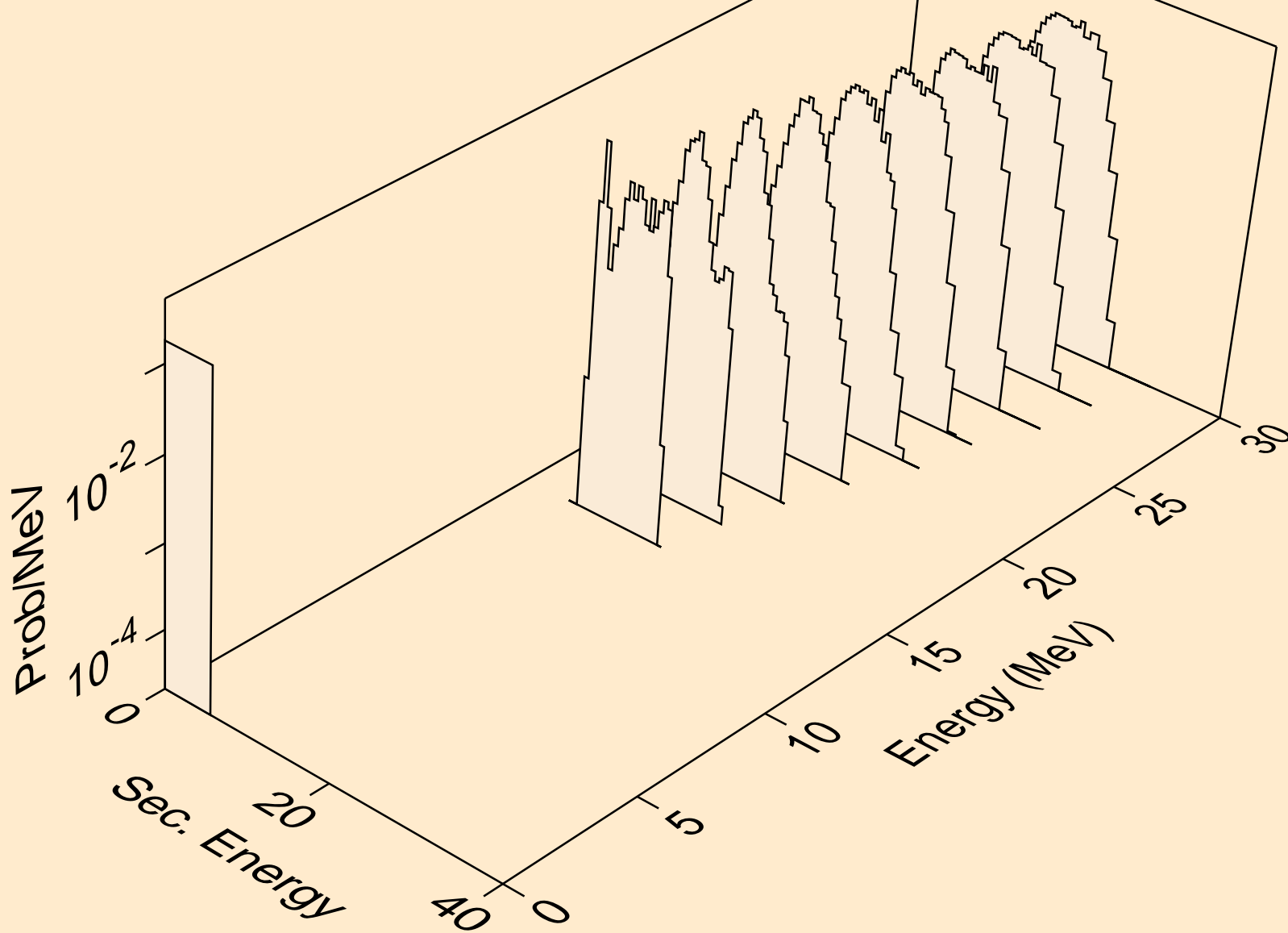
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



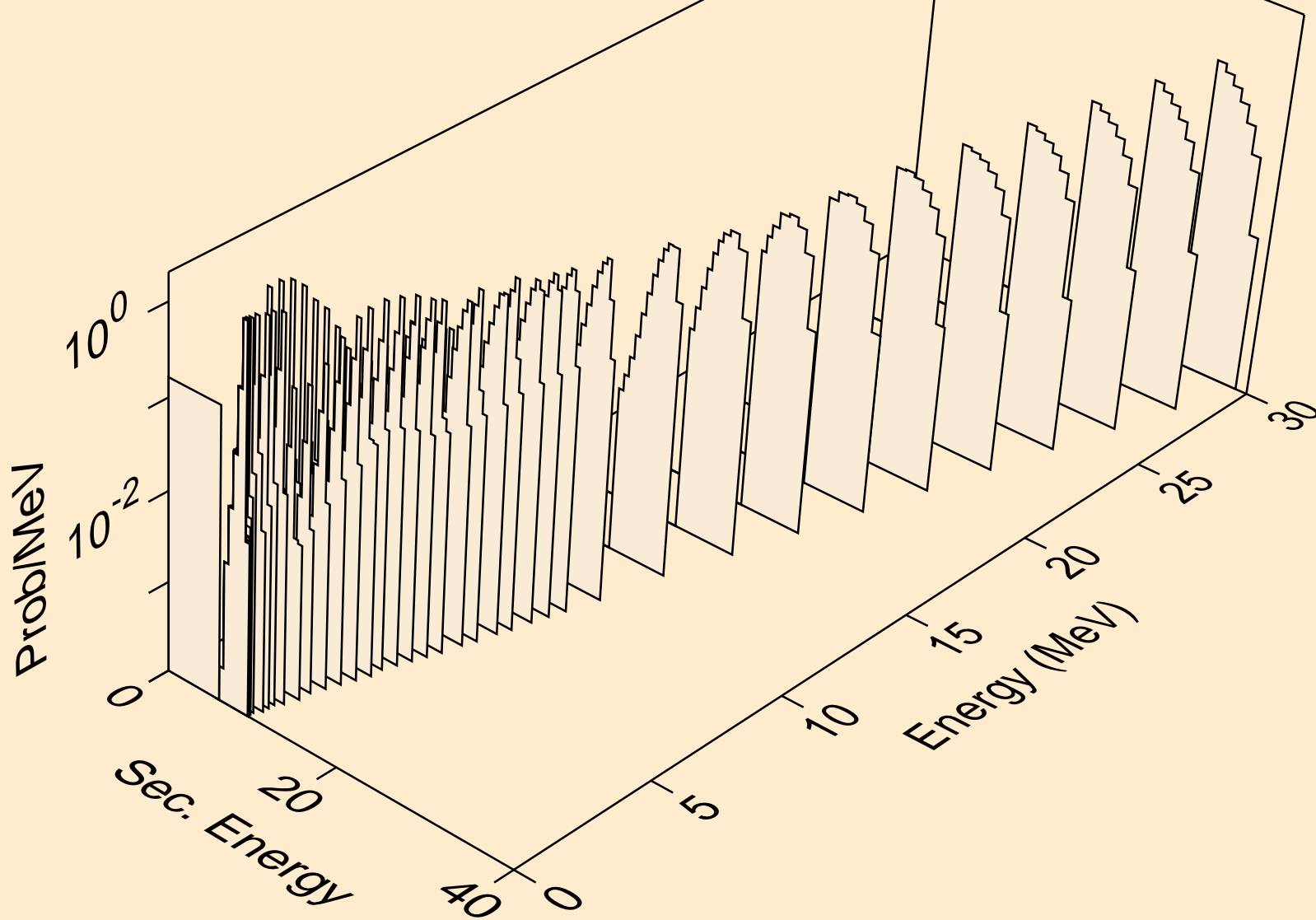
BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



BI213 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)

