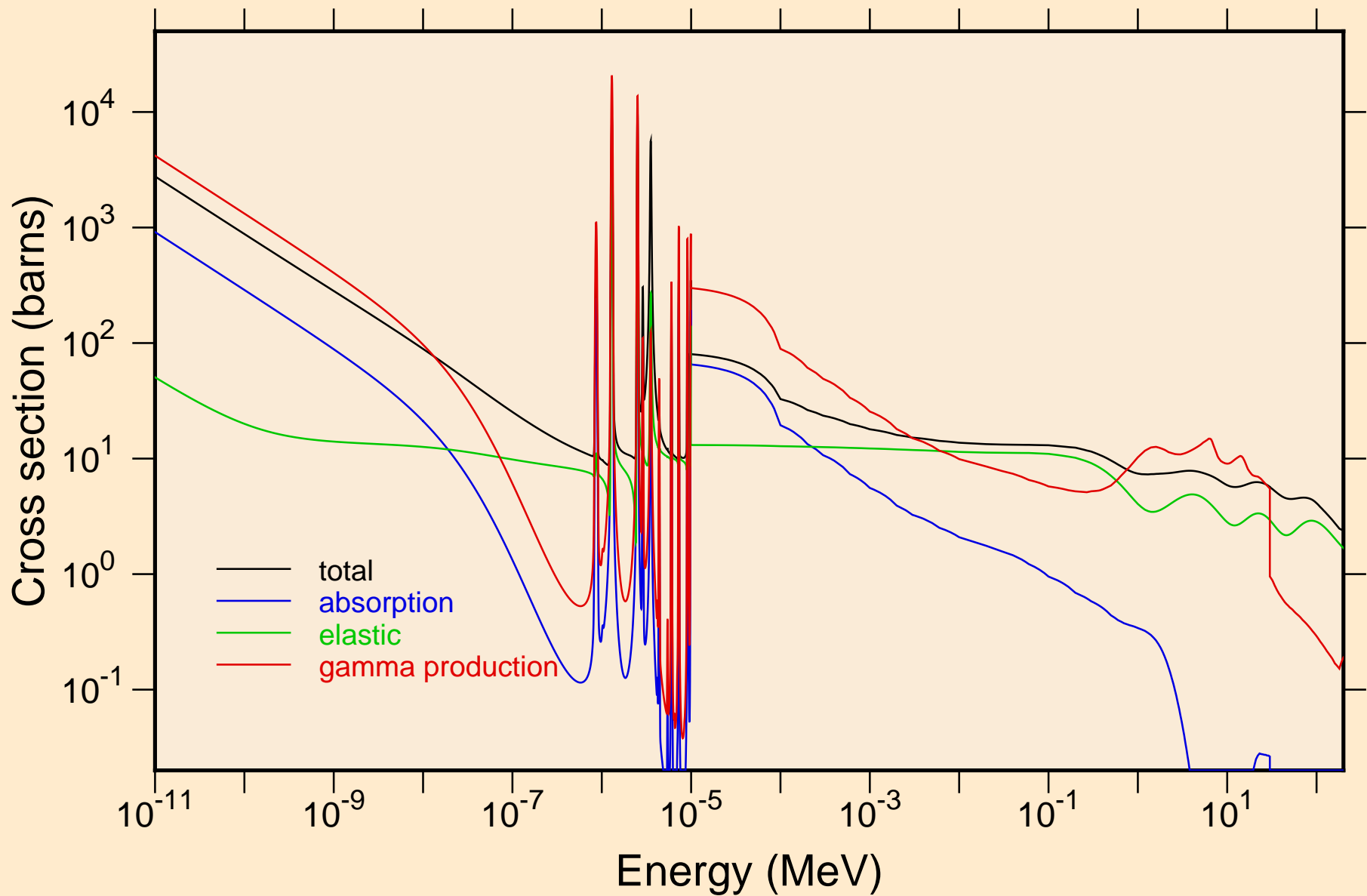
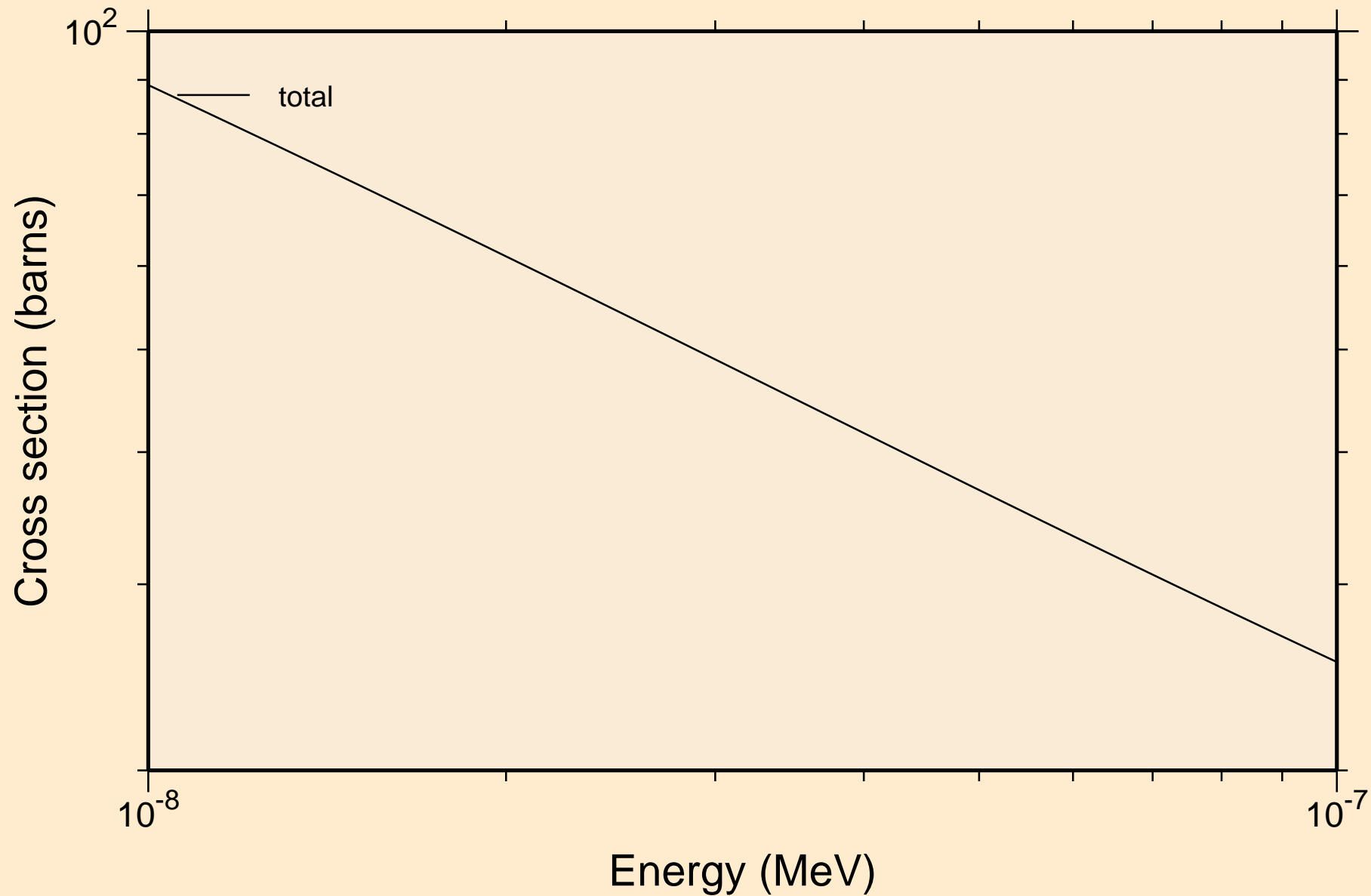


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

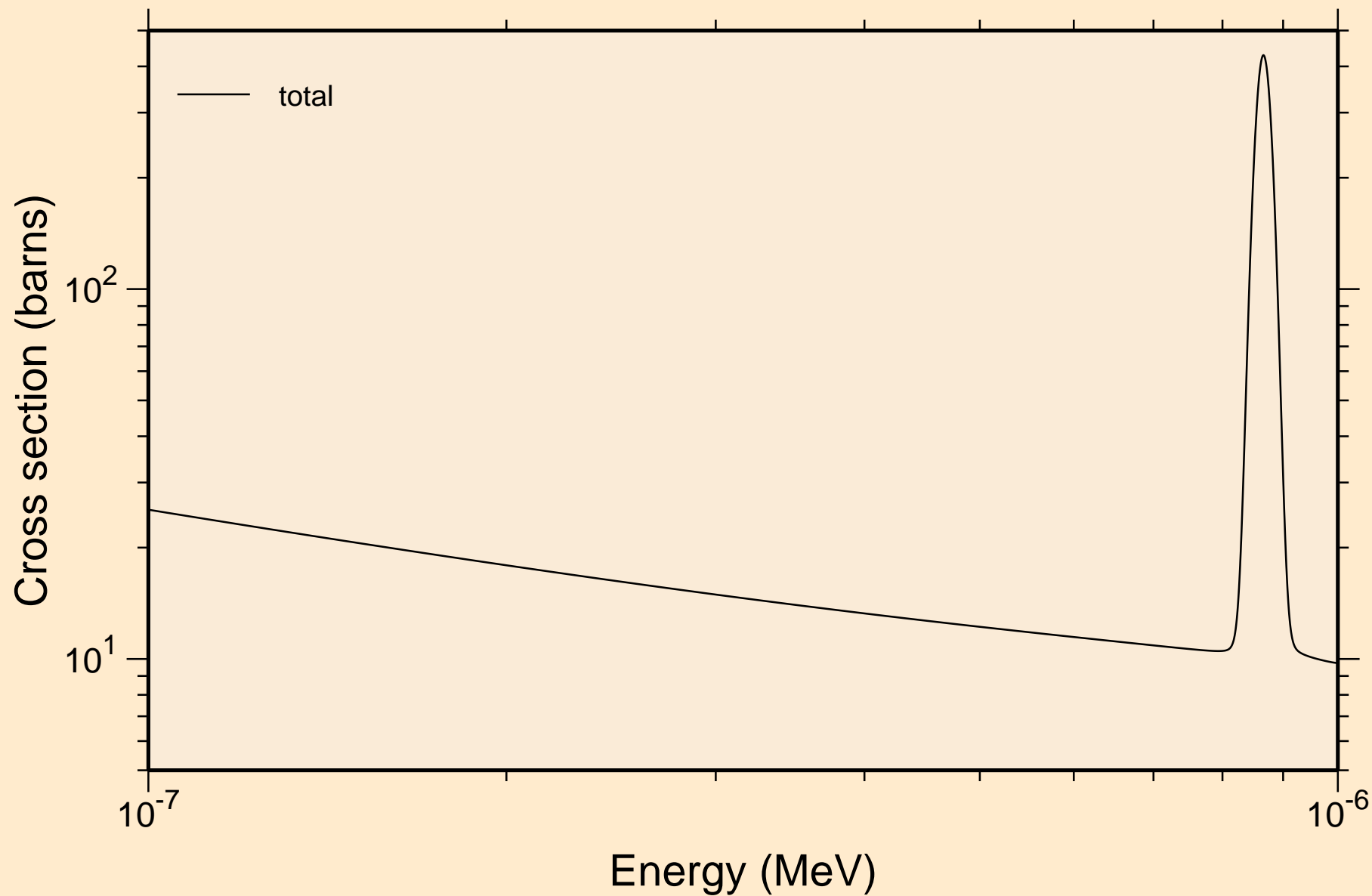
## Principal cross sections



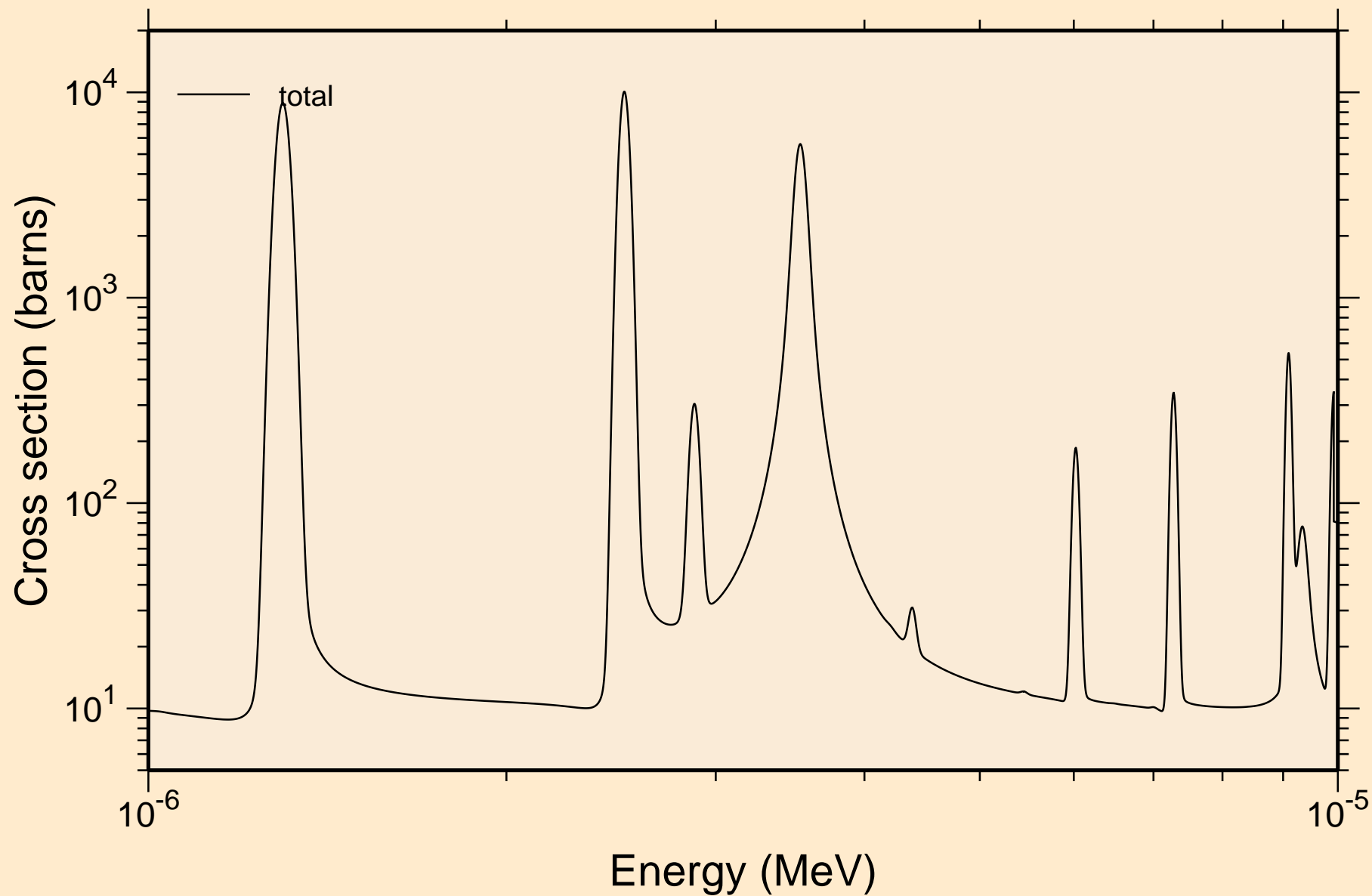
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



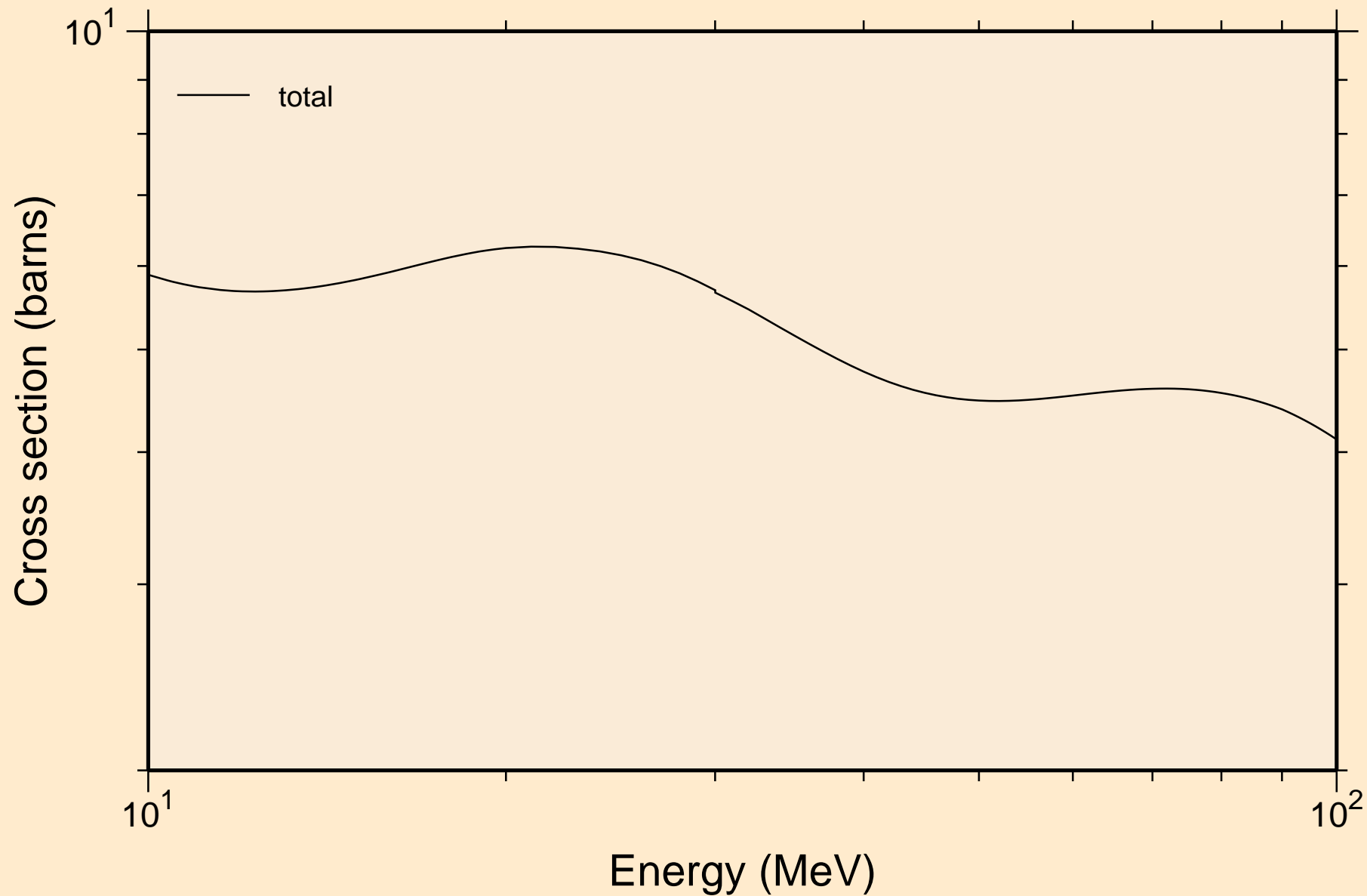
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



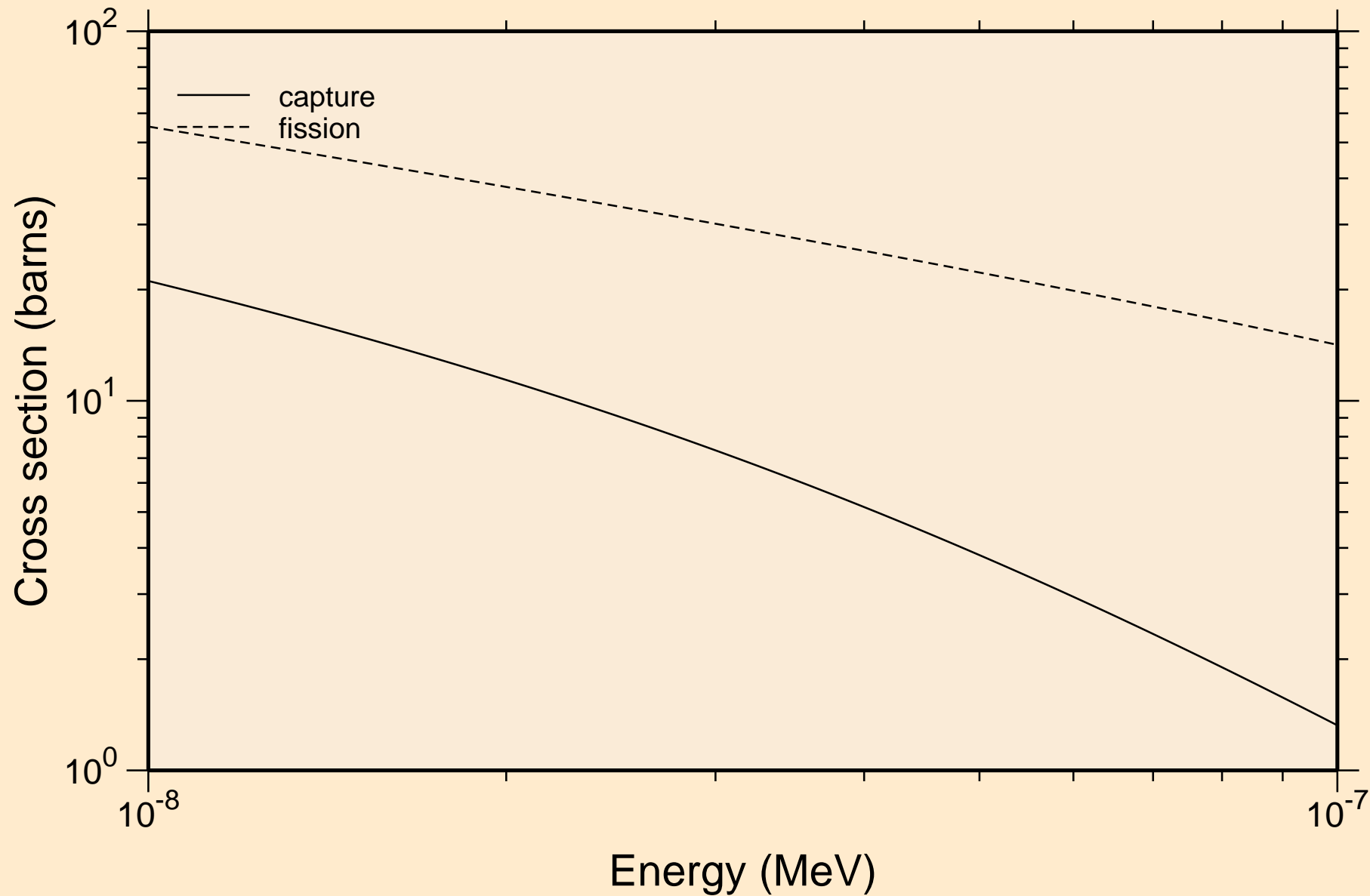
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



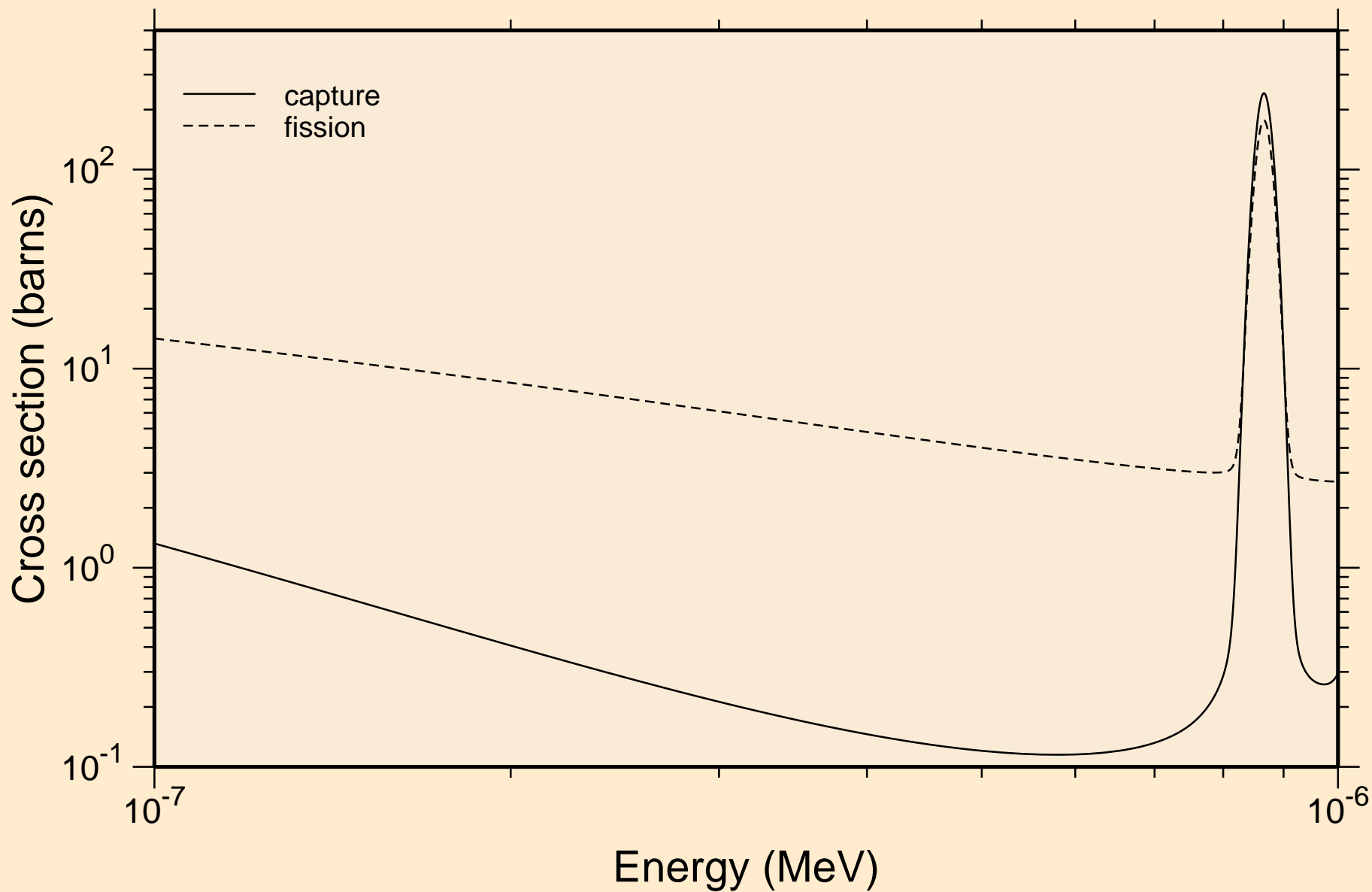
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



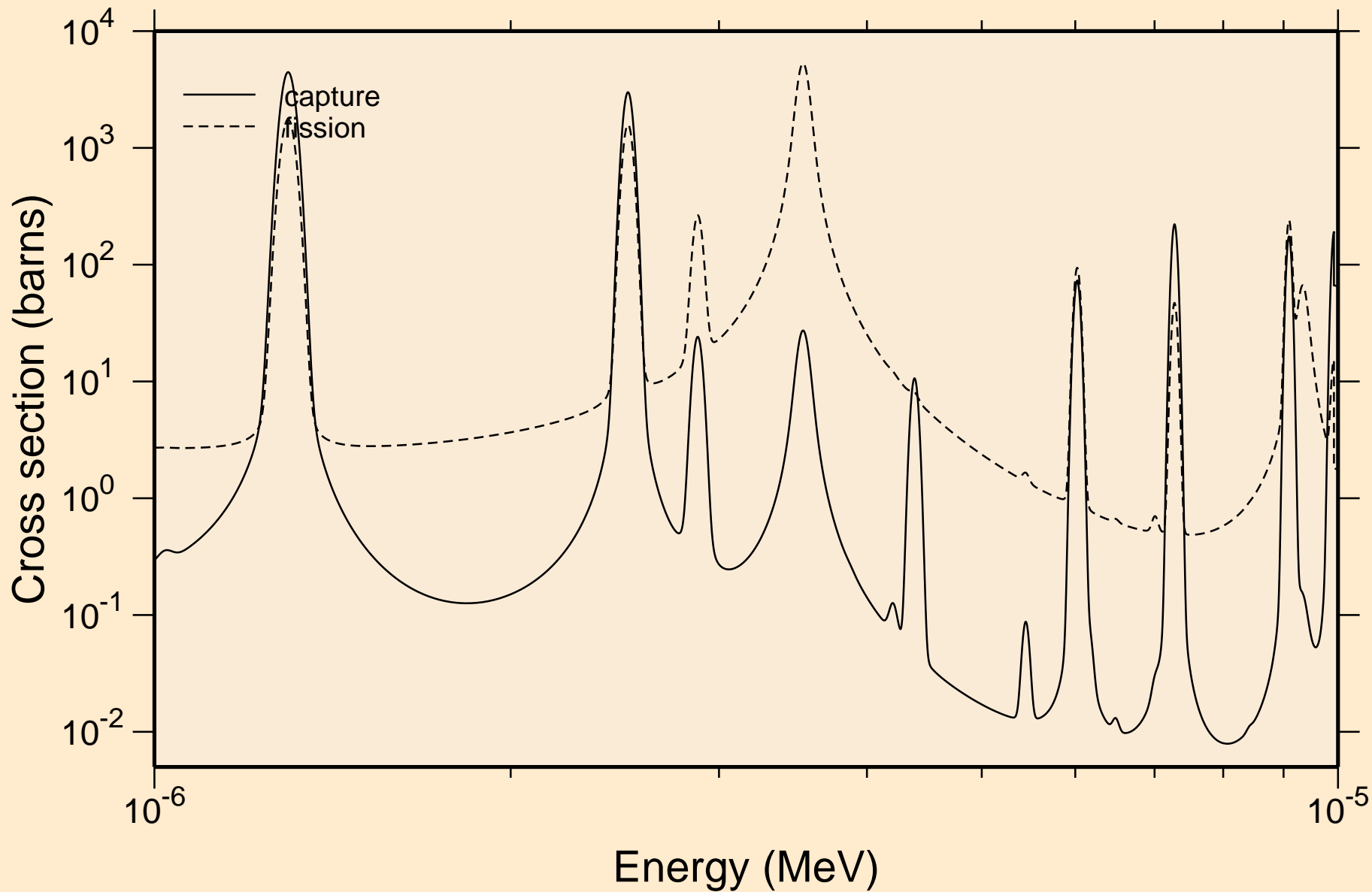
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

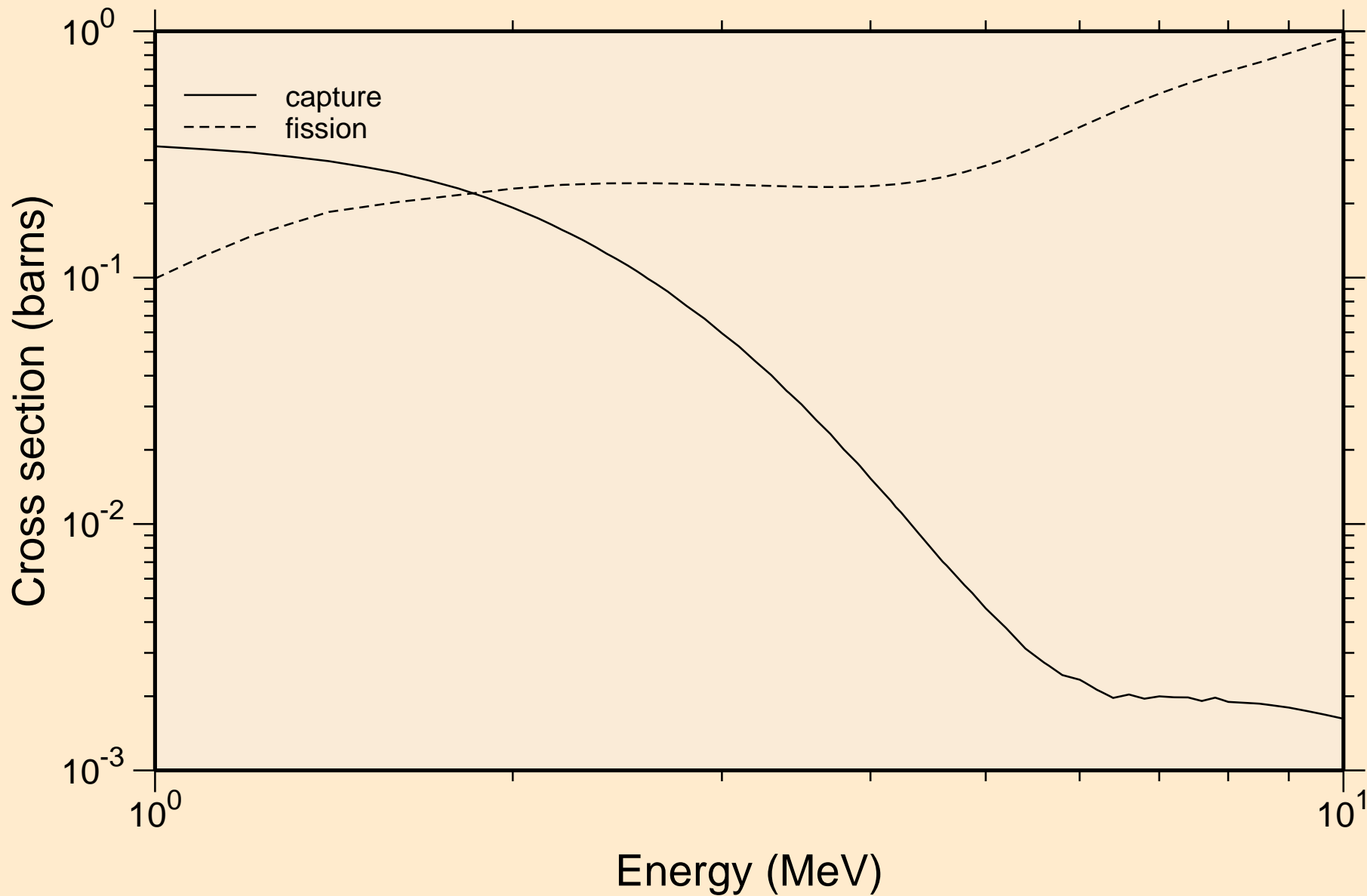


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

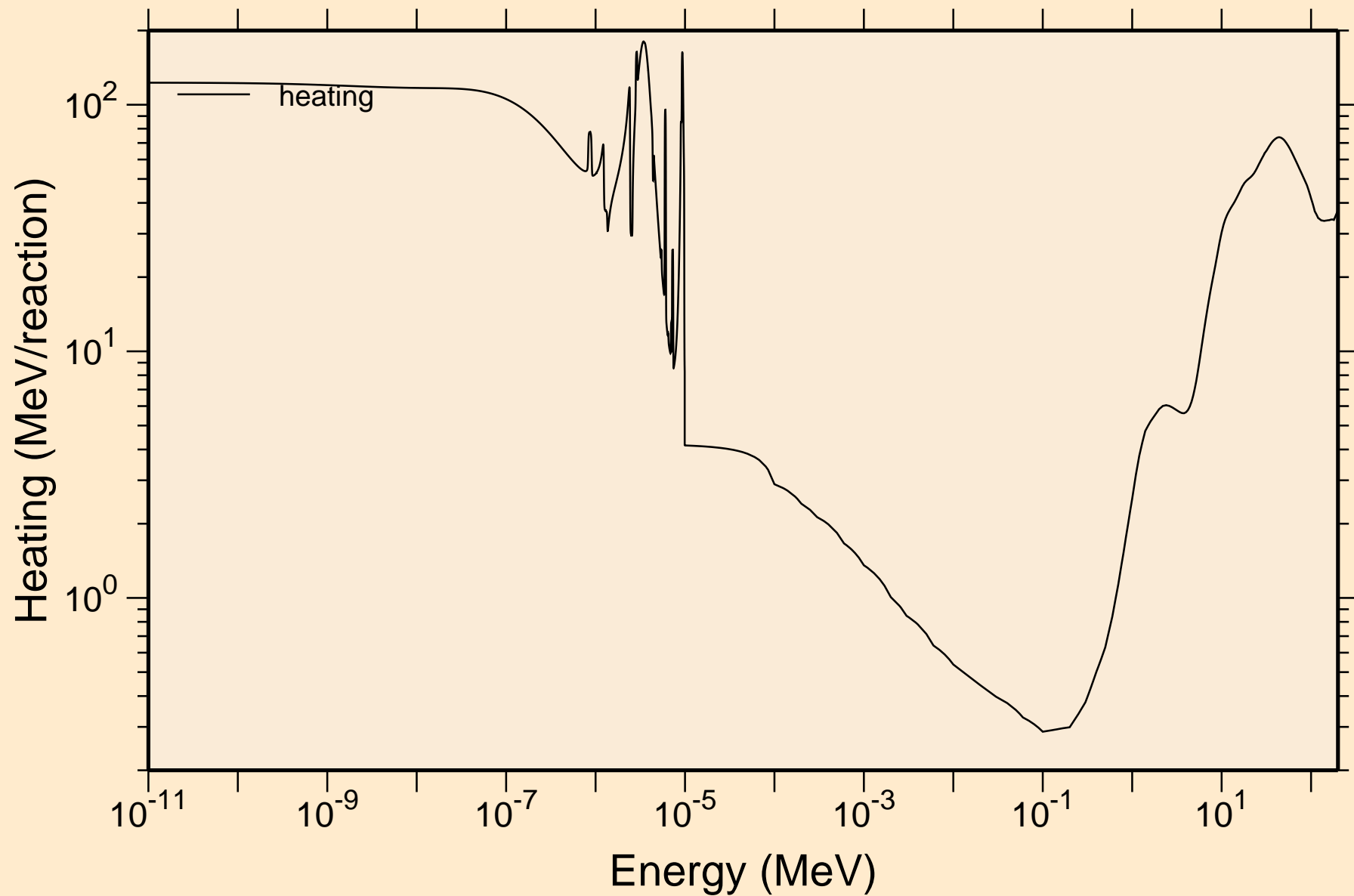




CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

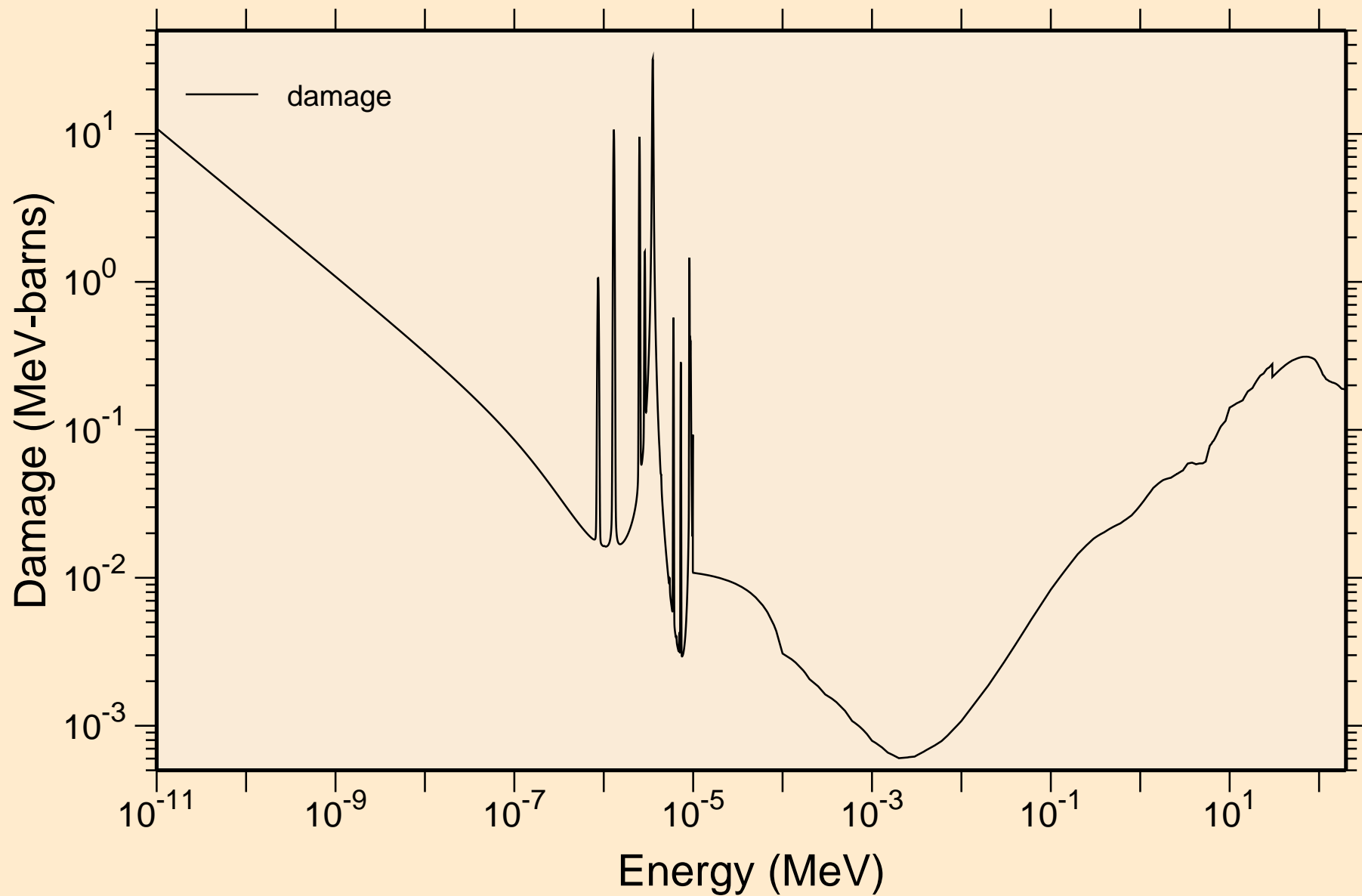


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

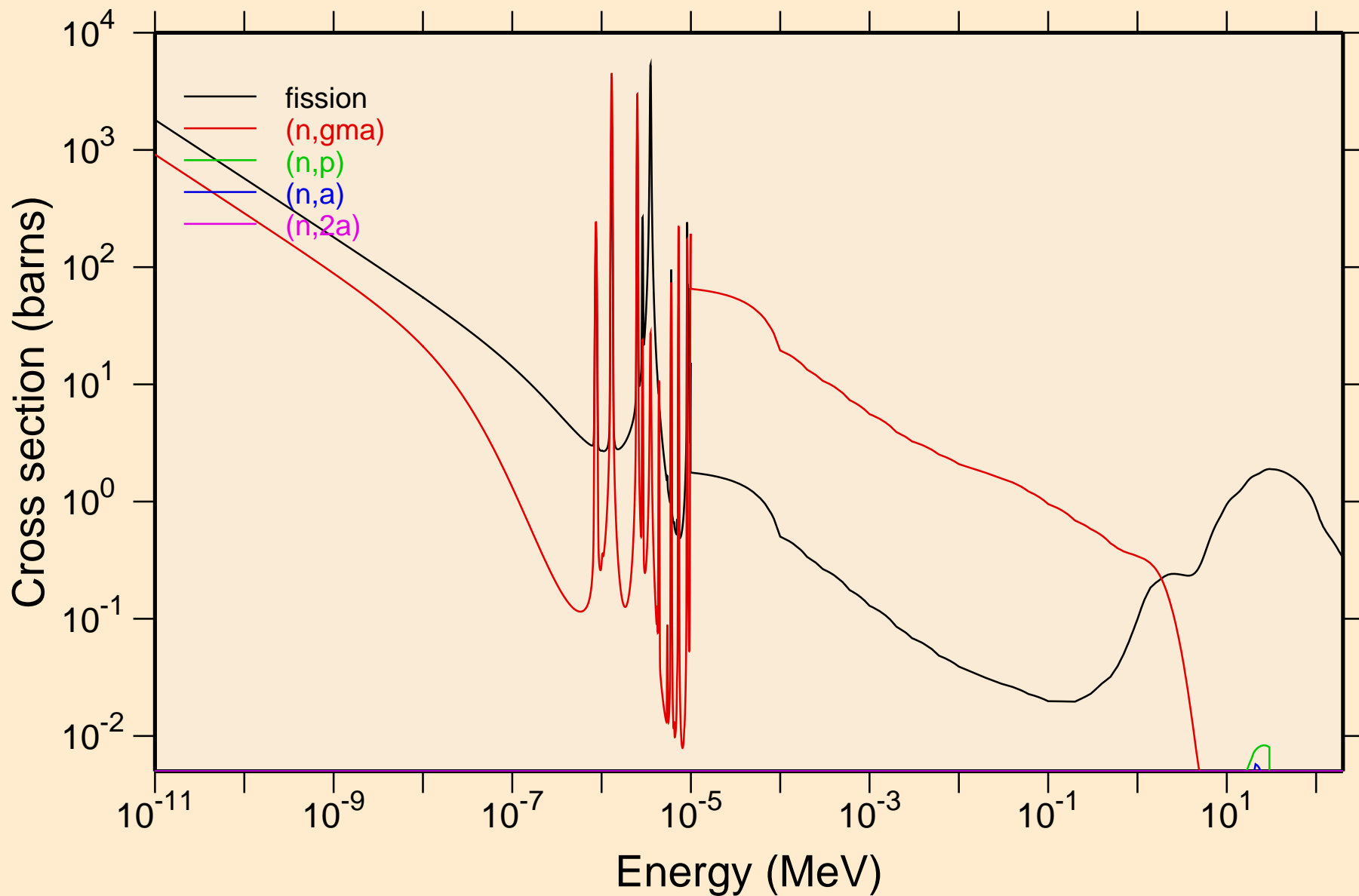


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

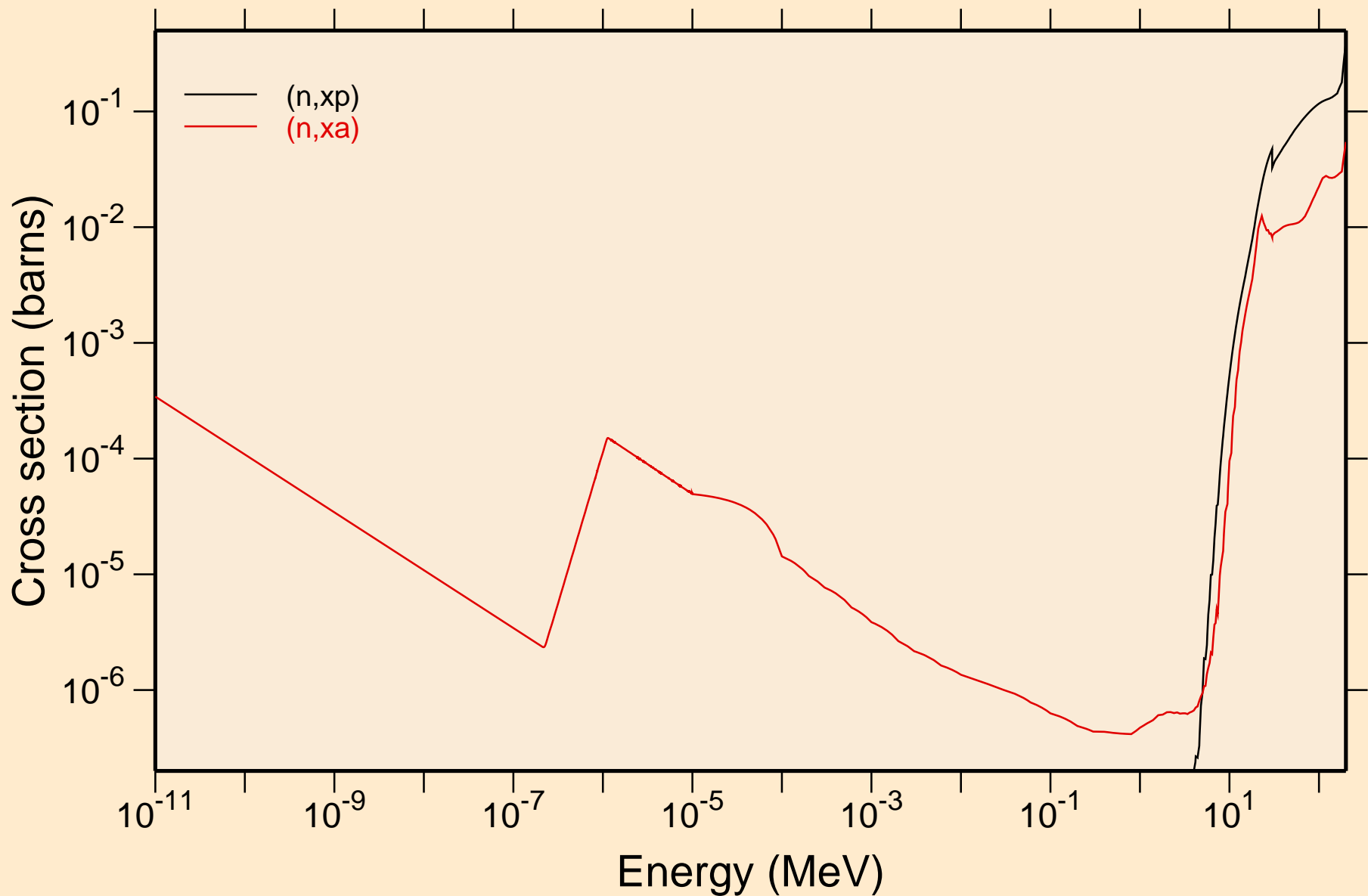
## Damage



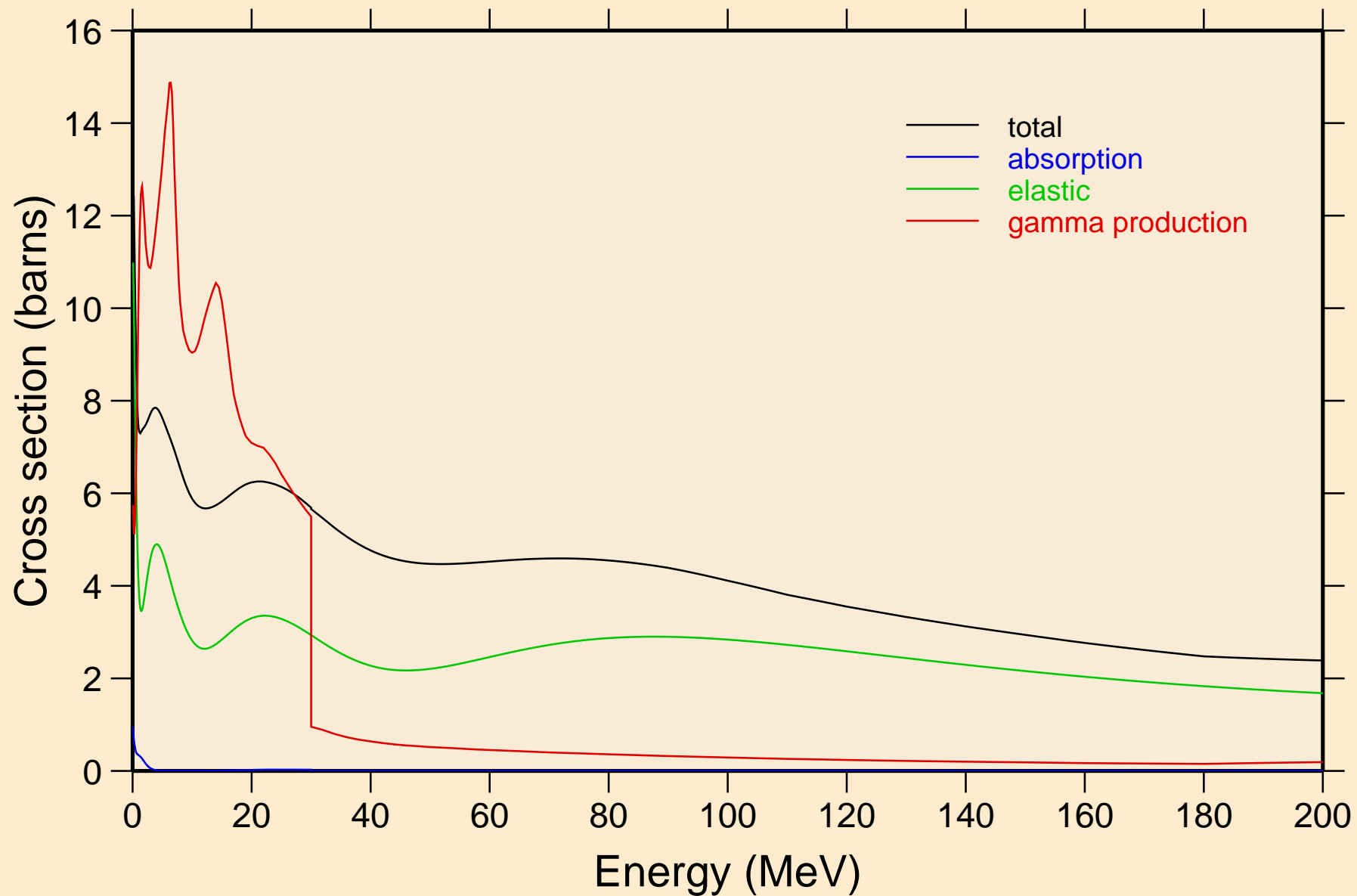
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



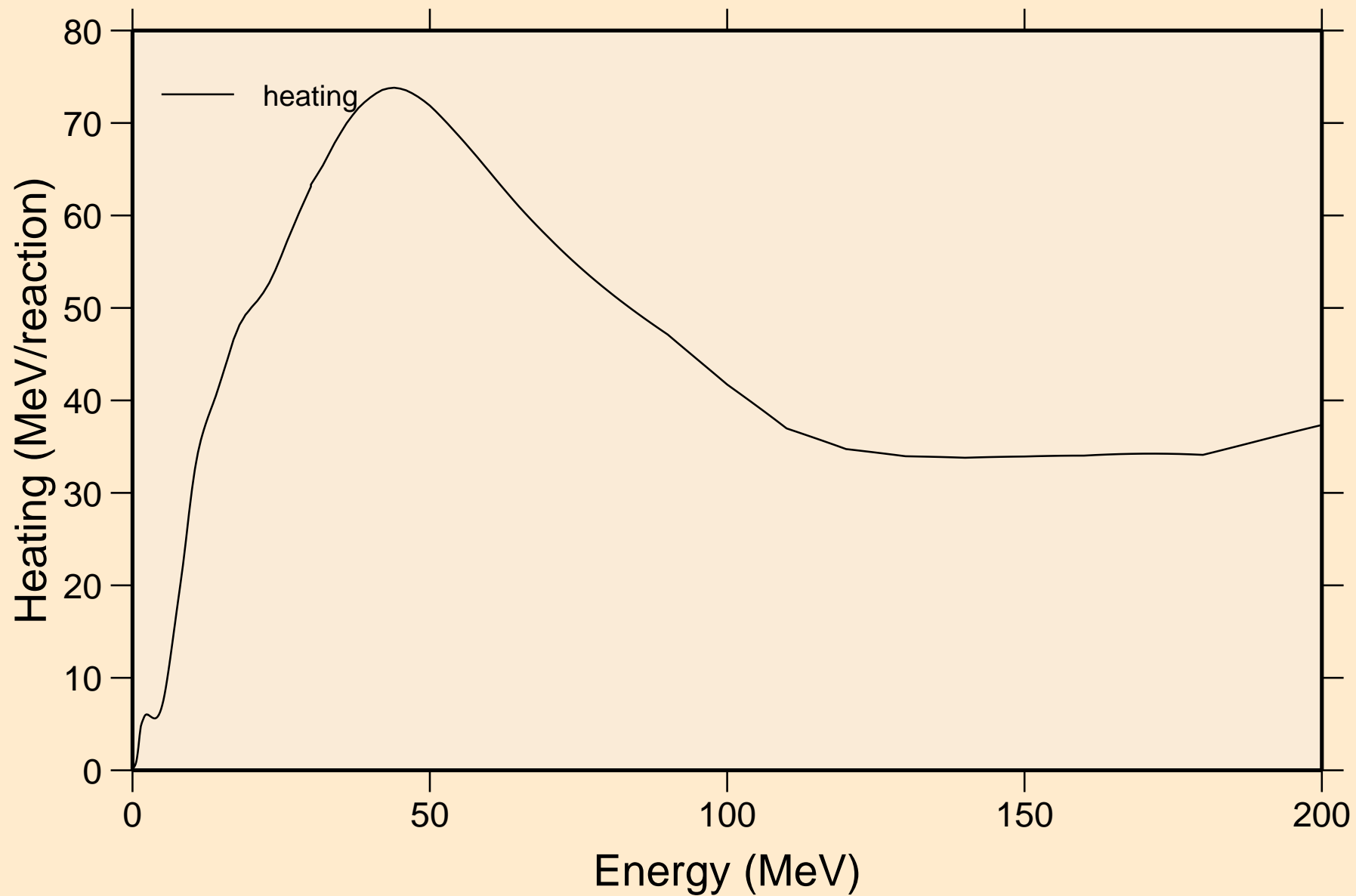
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



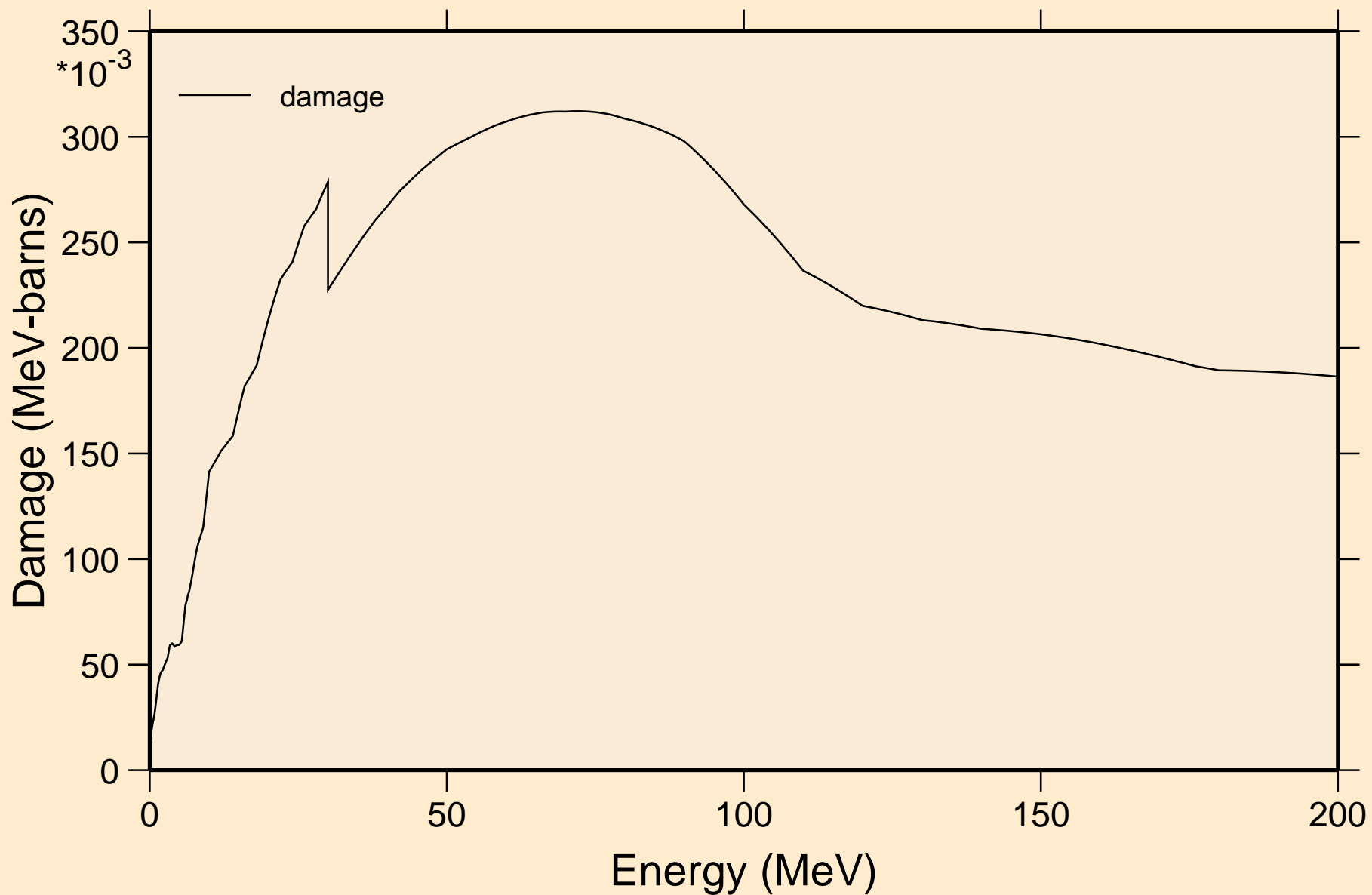
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

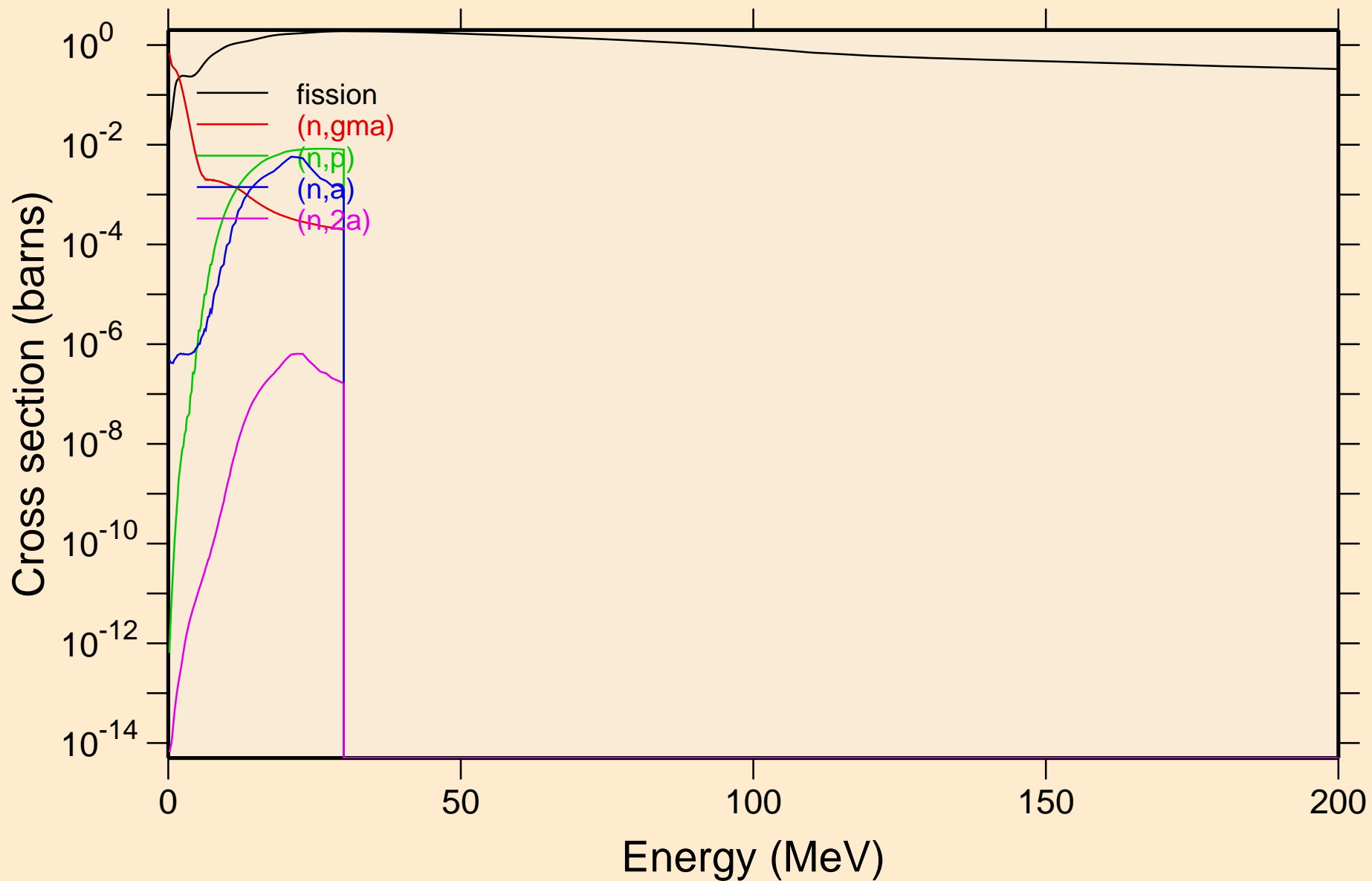


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

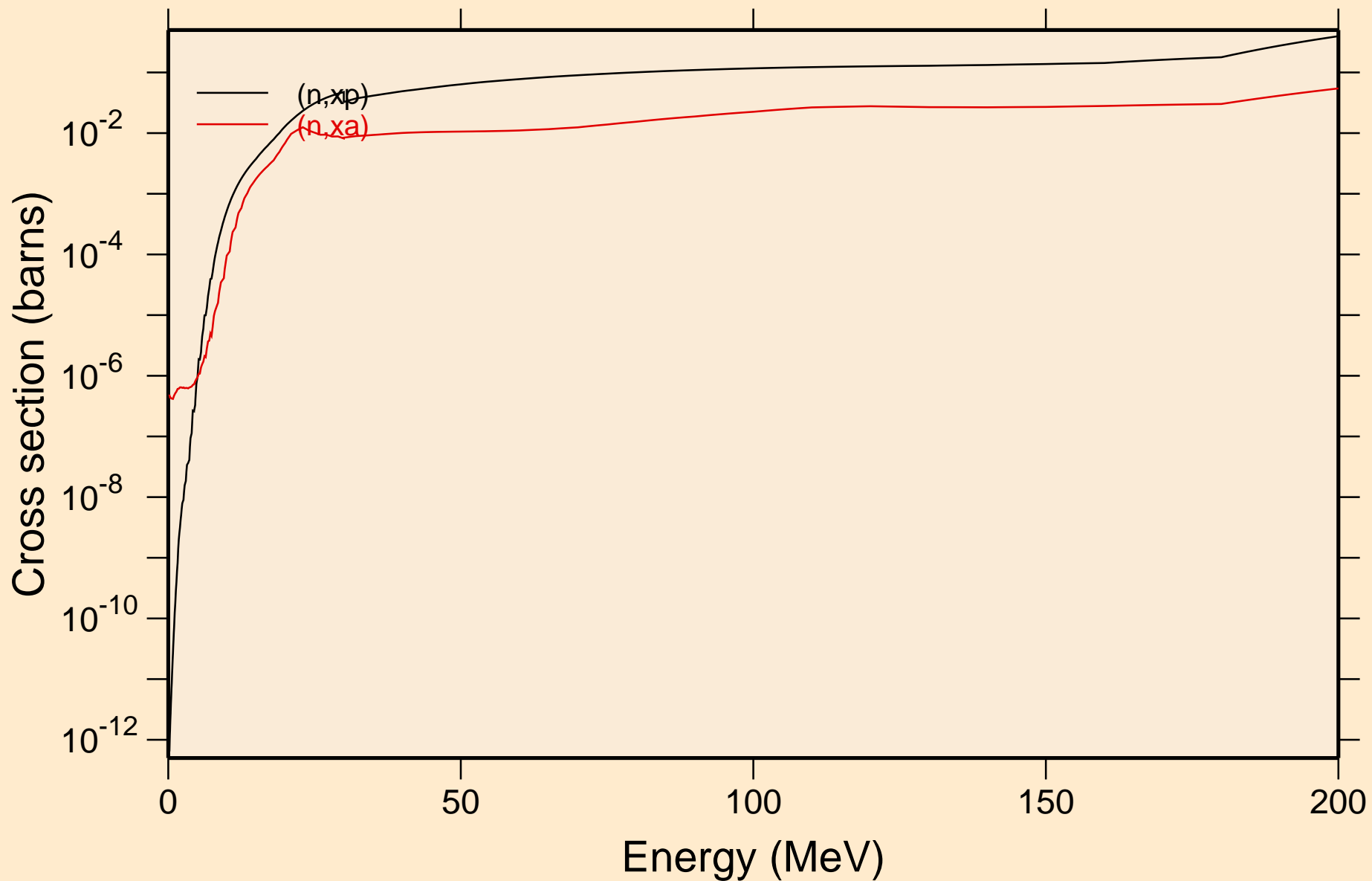




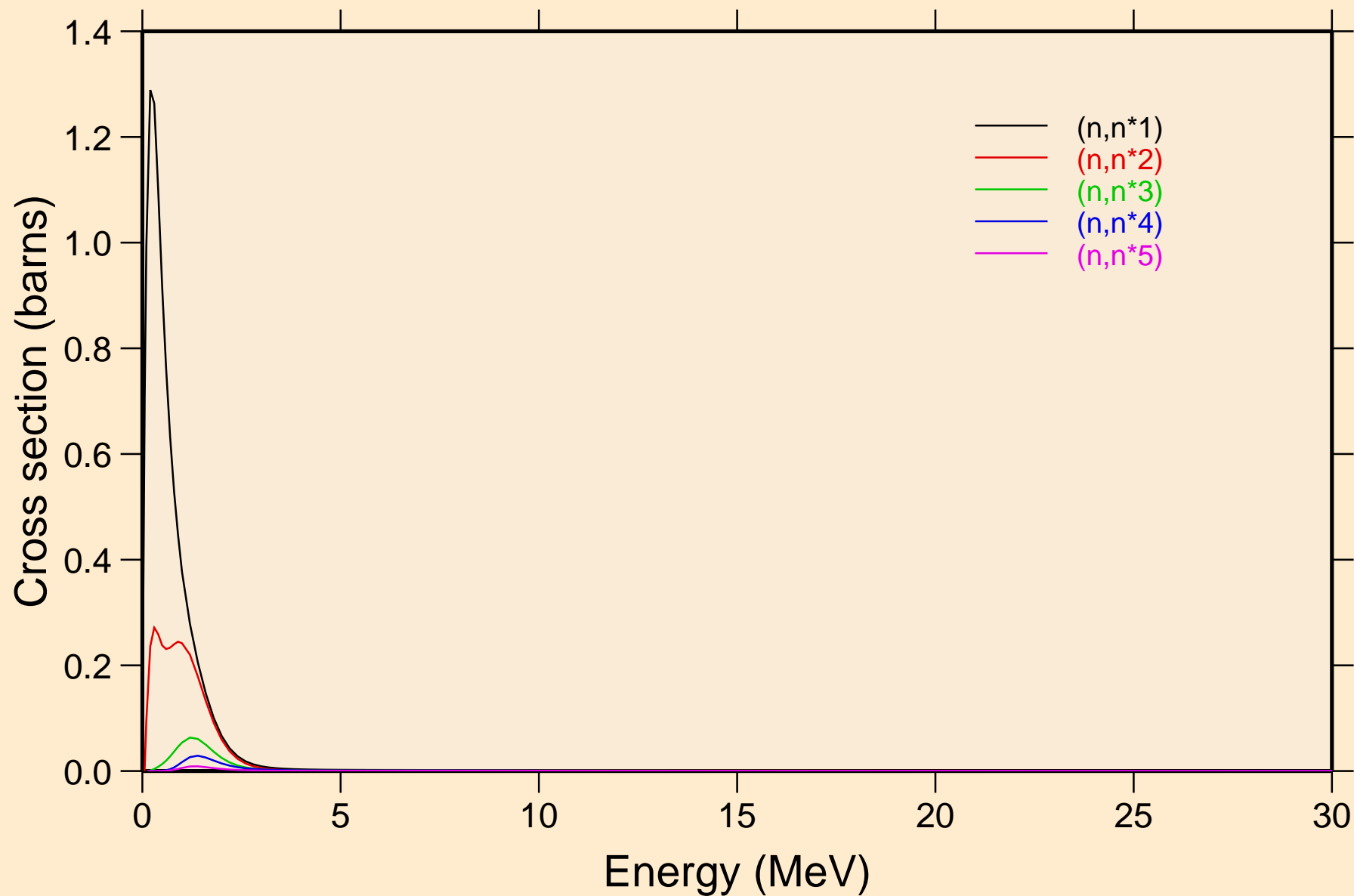
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



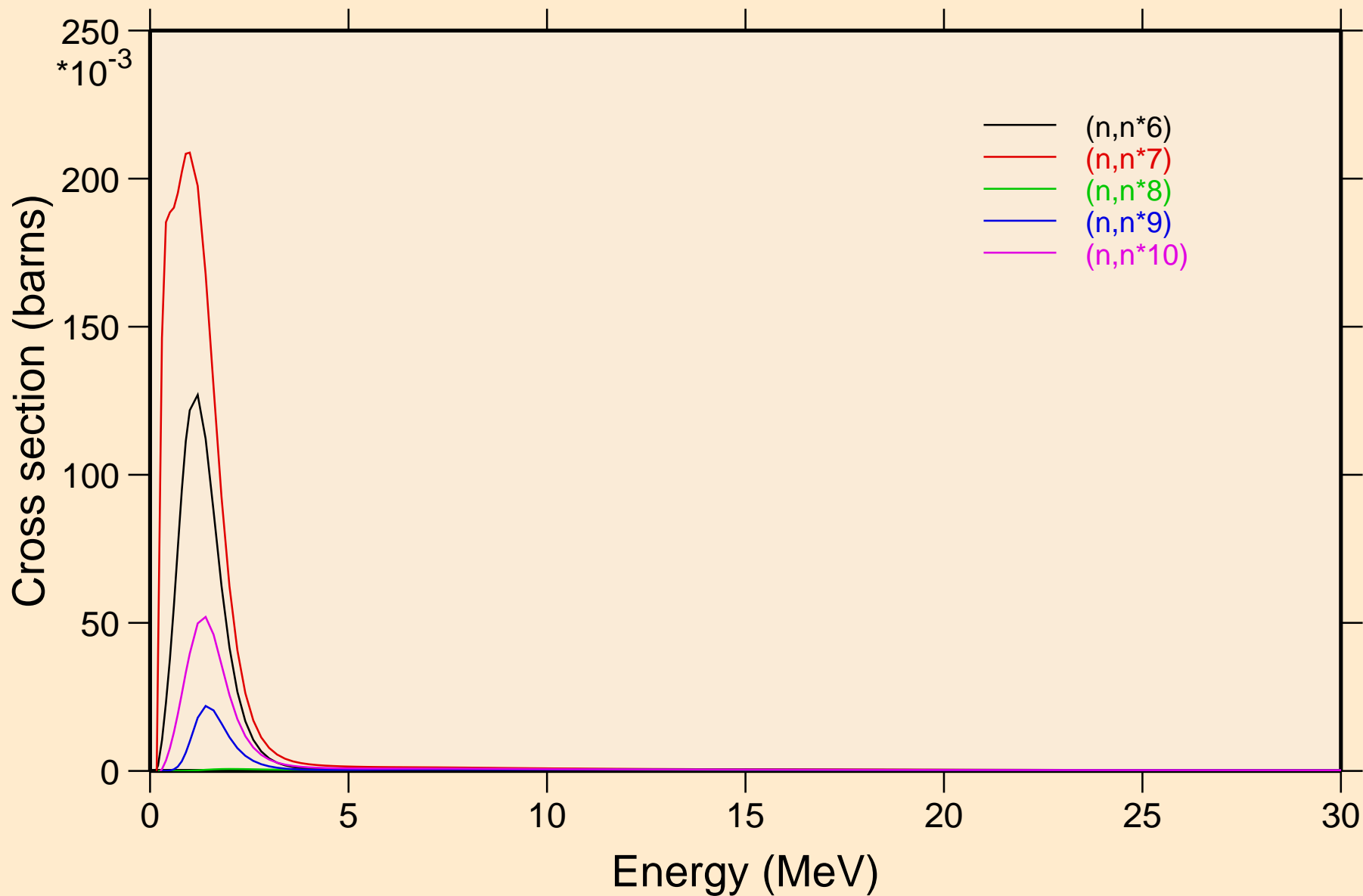
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

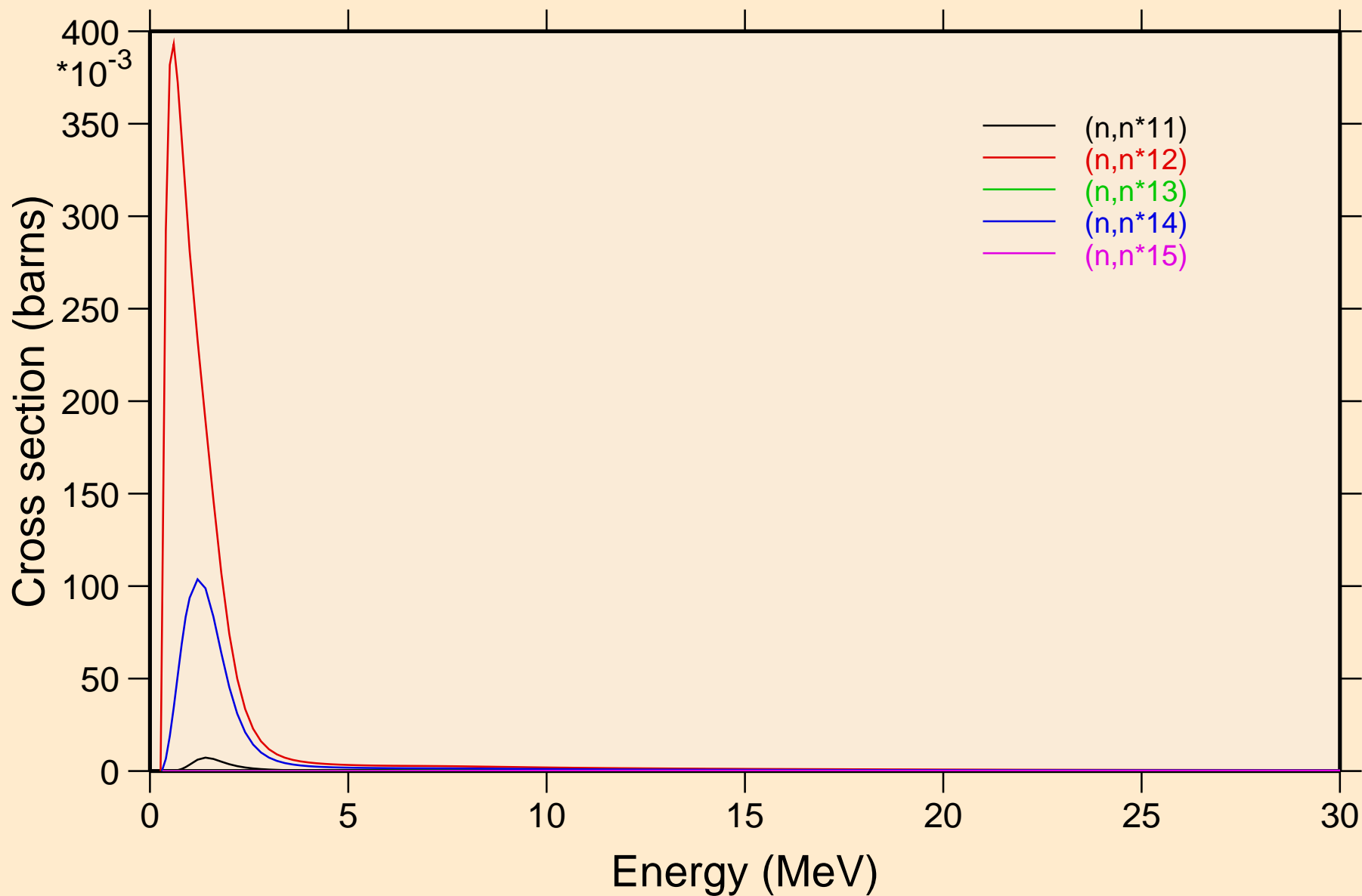


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

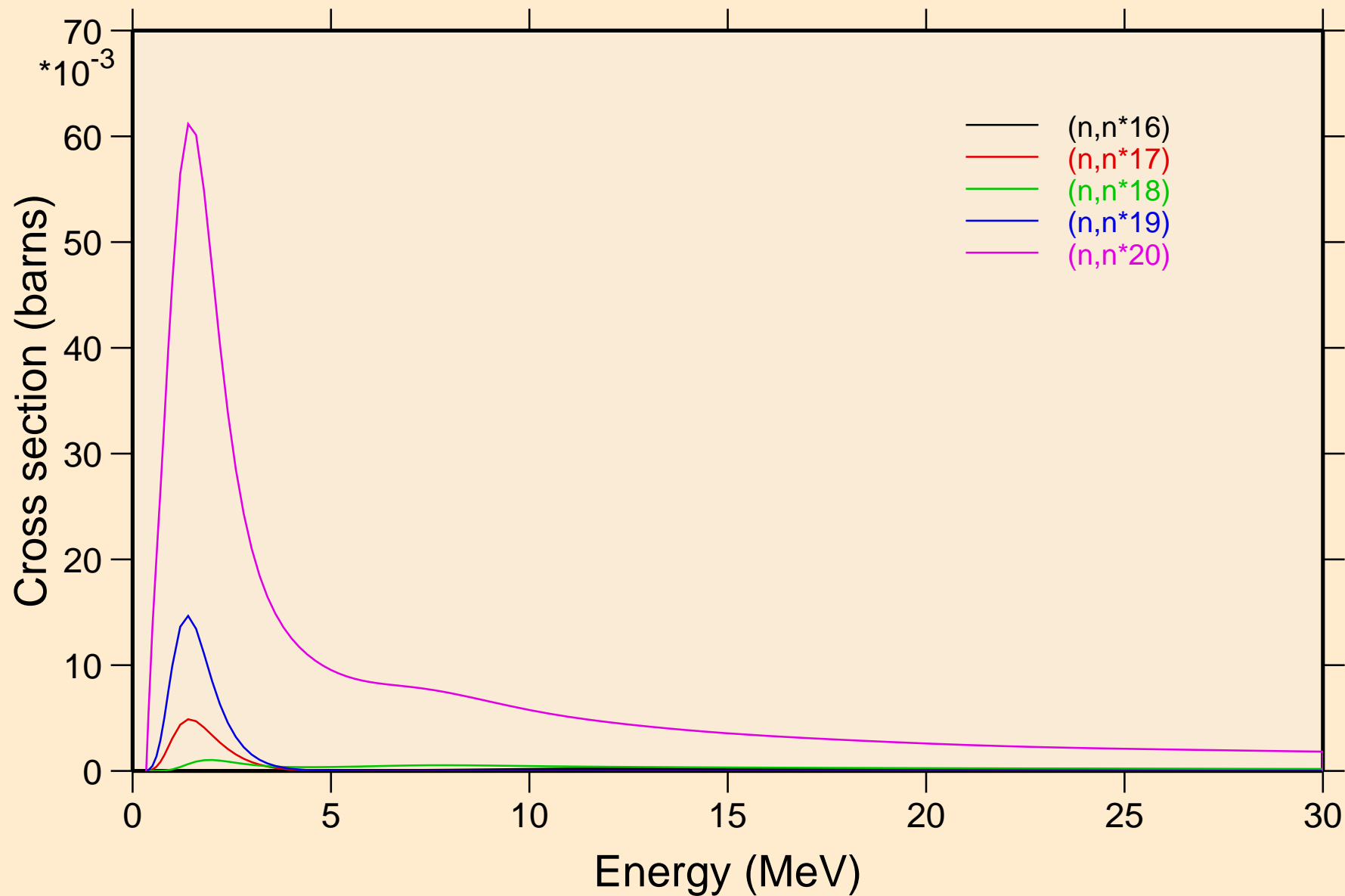


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

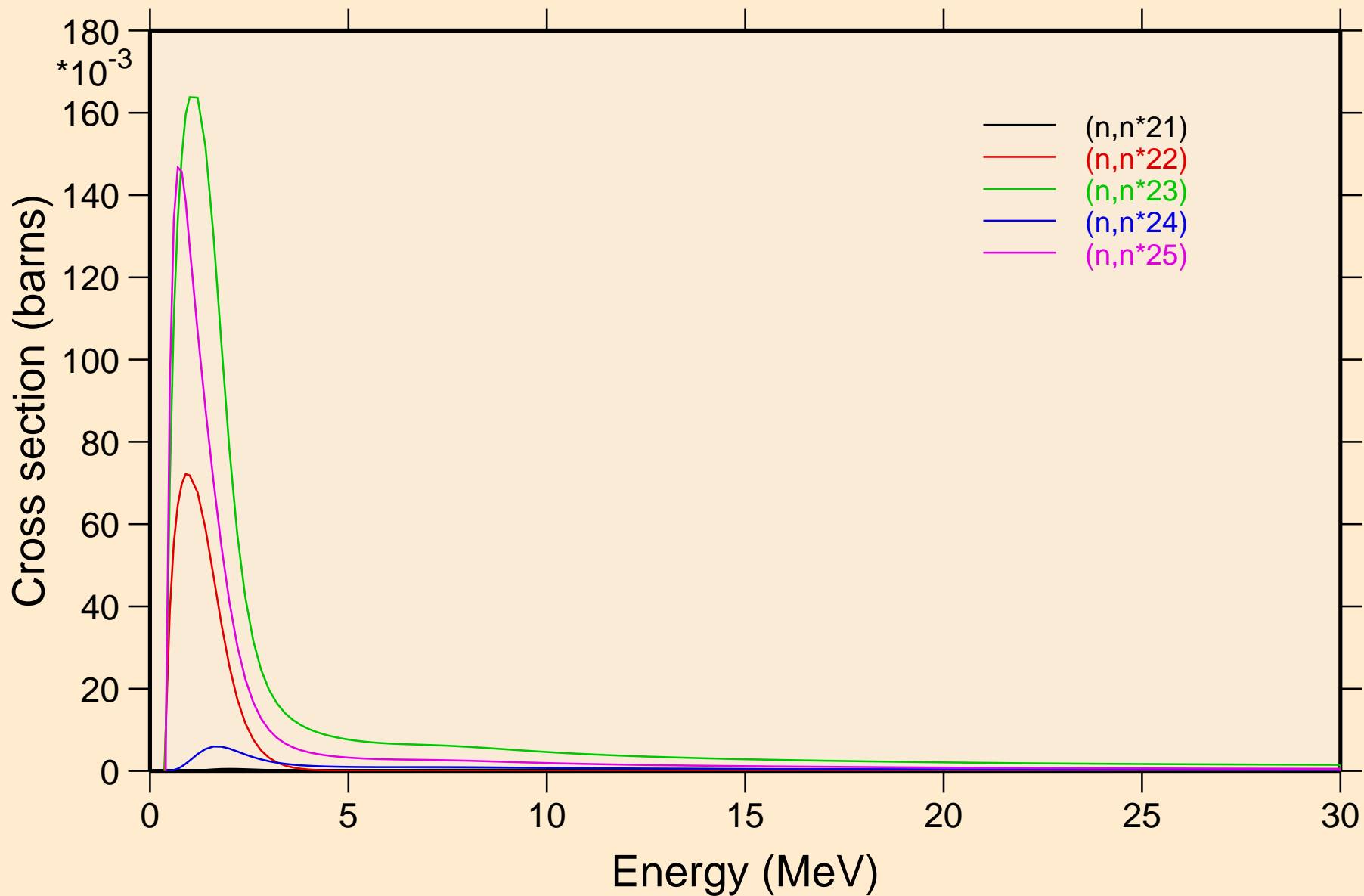
## Inelastic levels



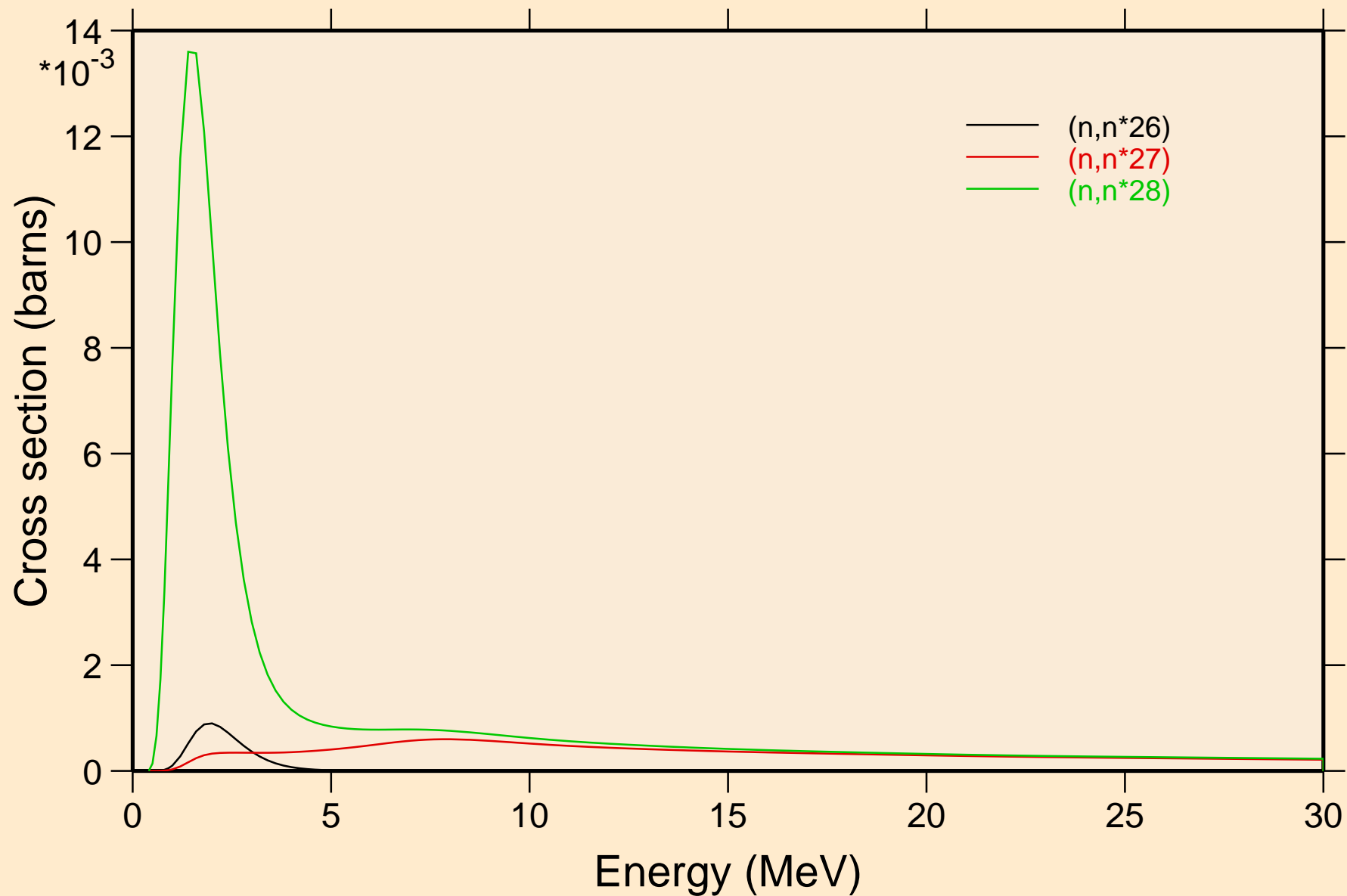
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



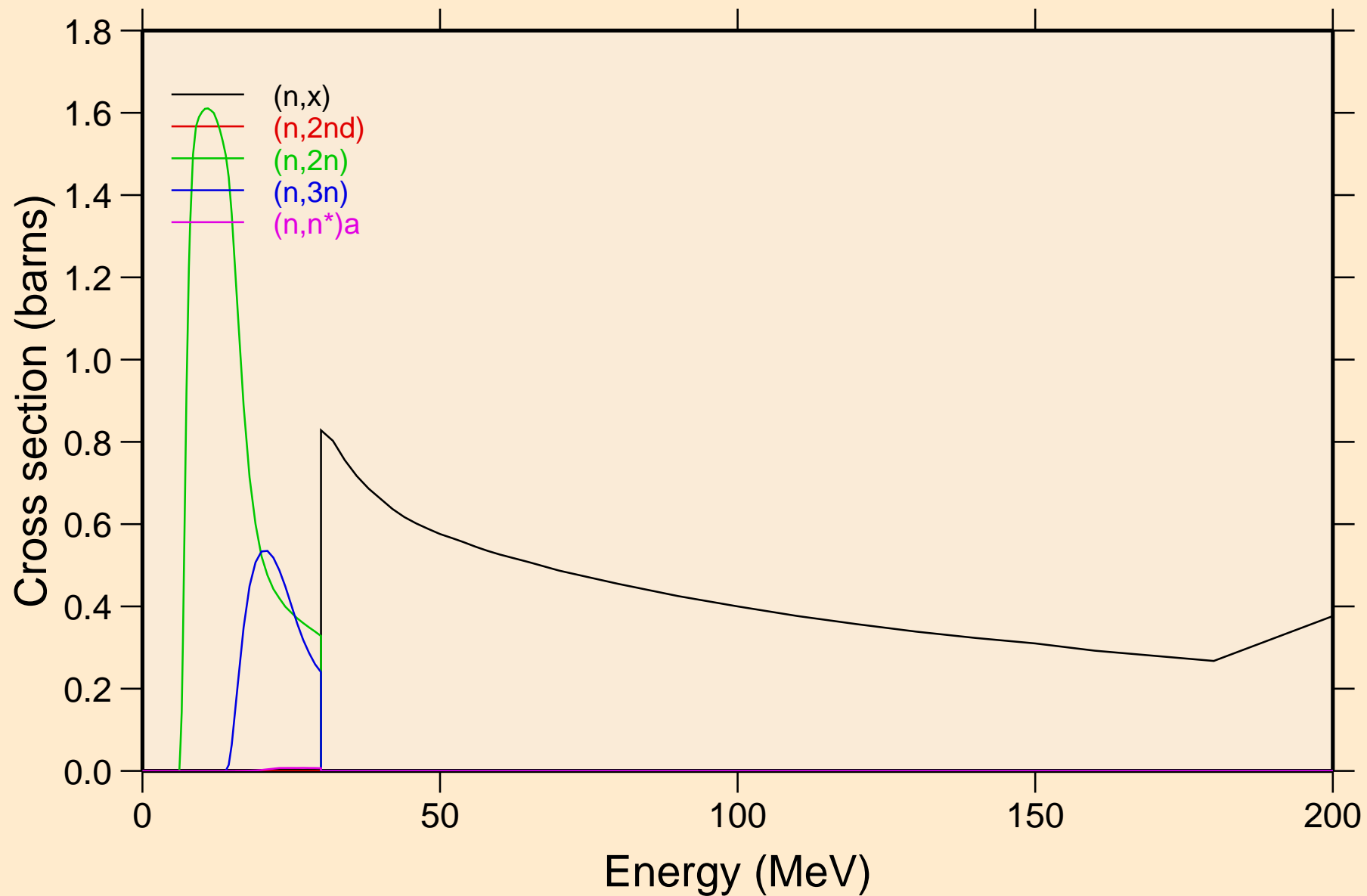
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



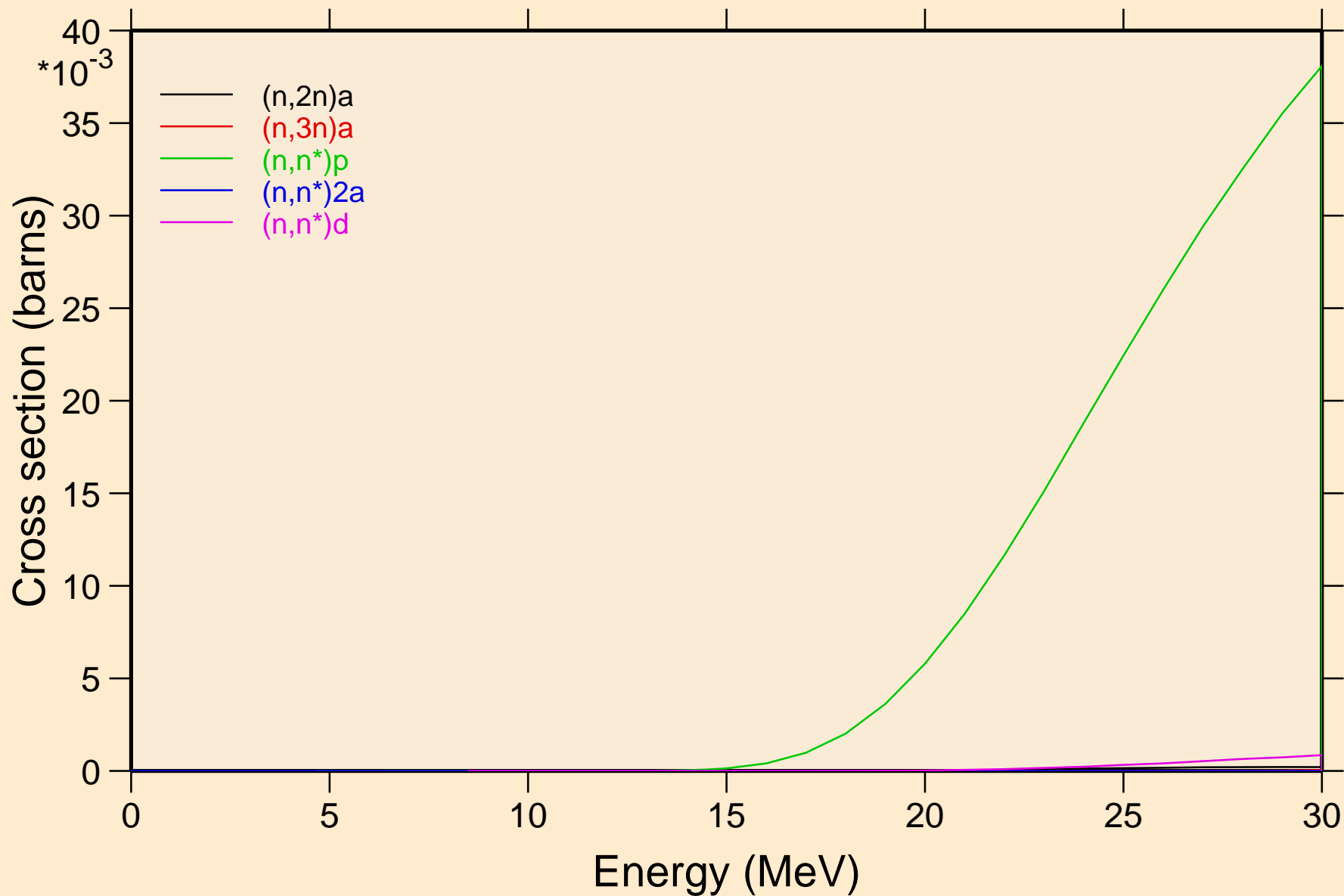


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

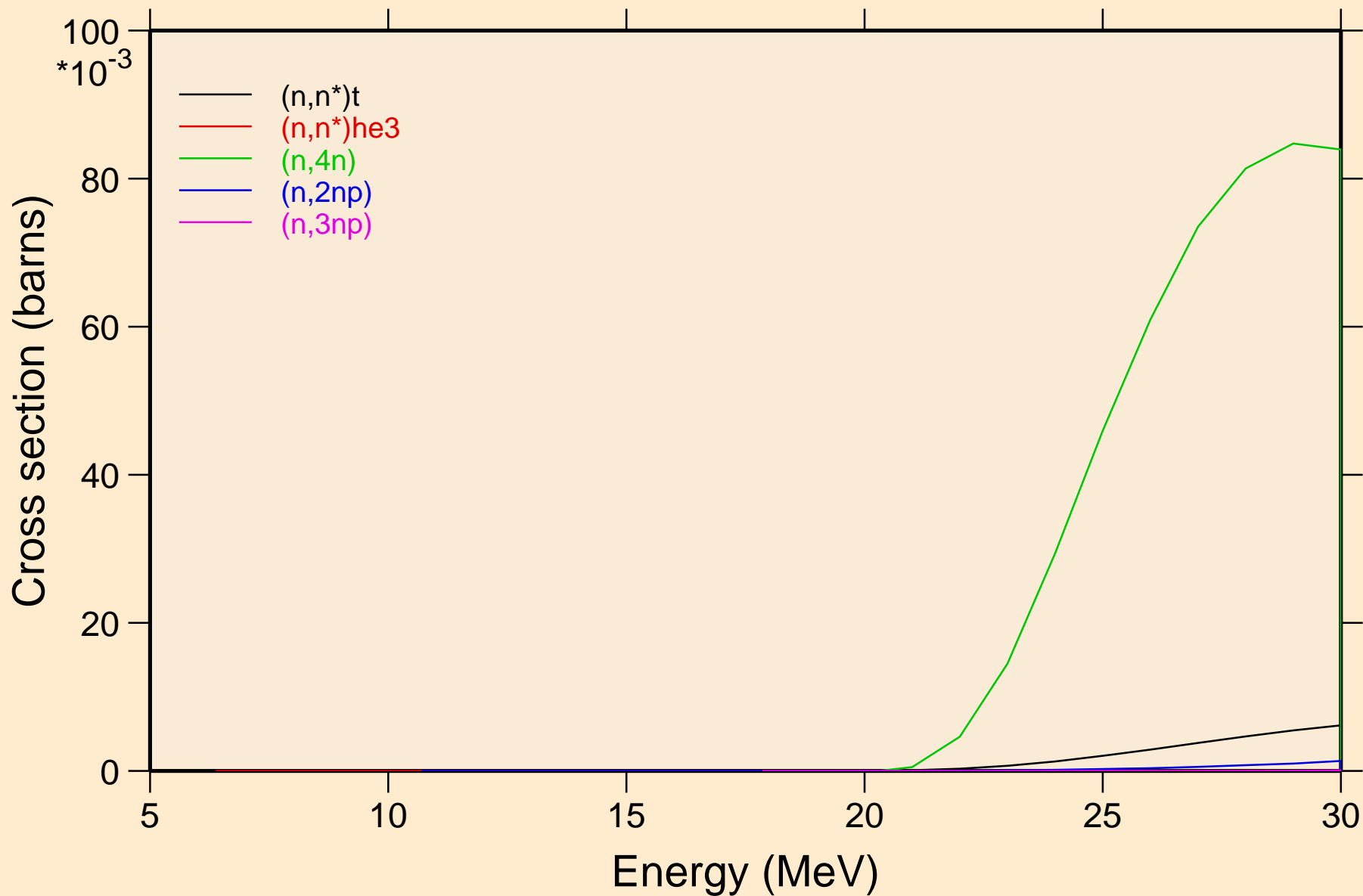
## Threshold reactions



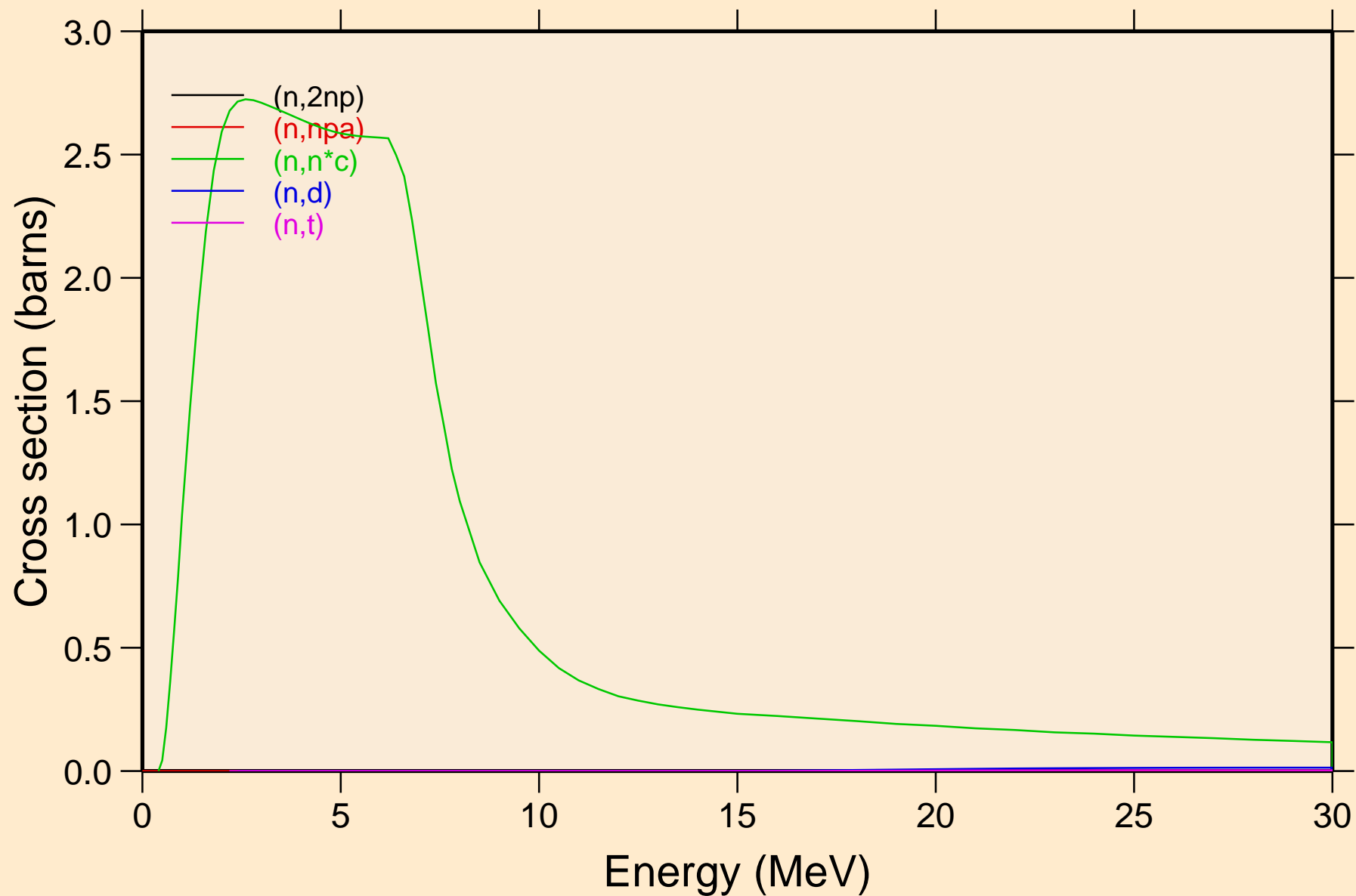
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

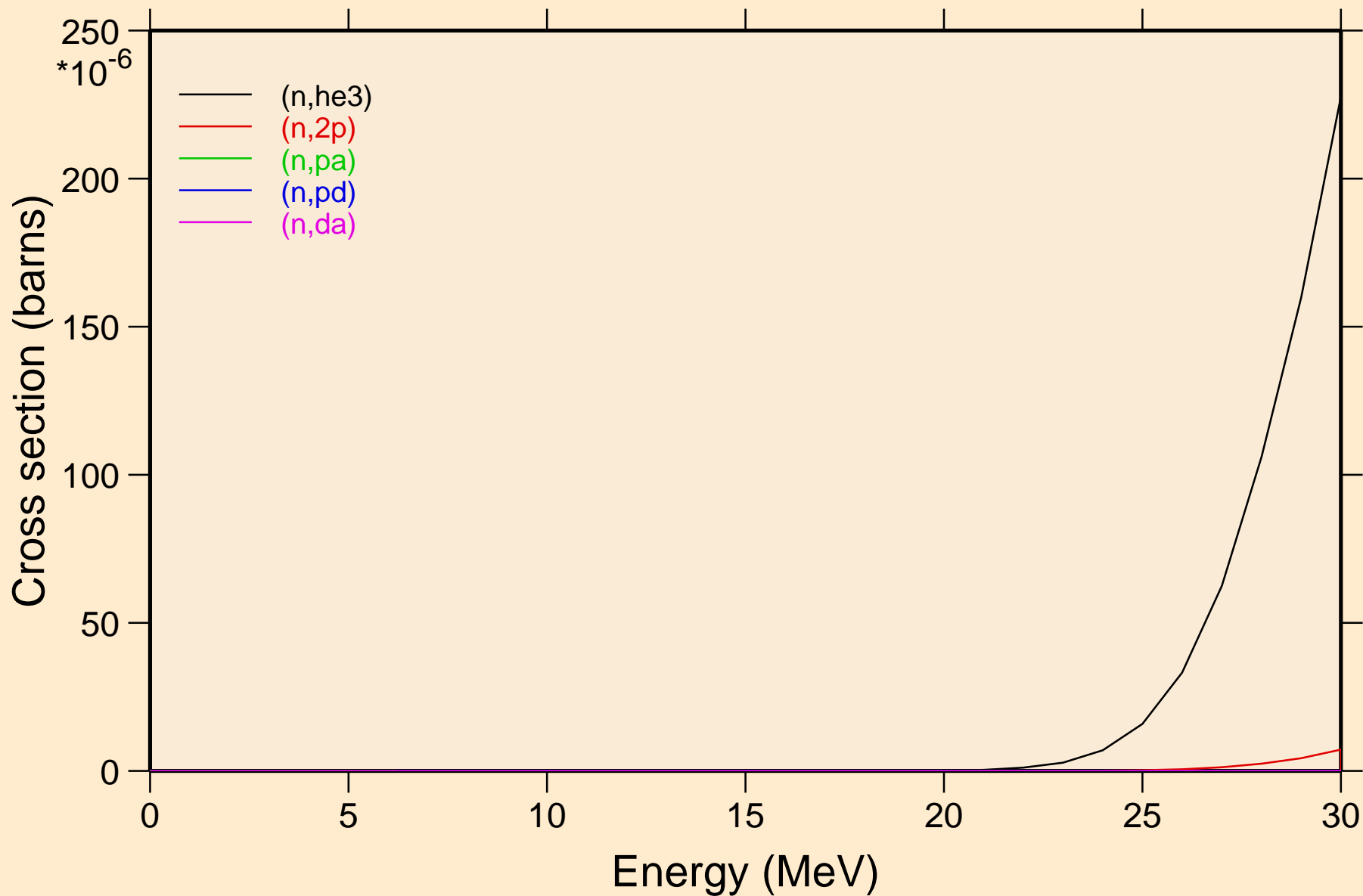


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

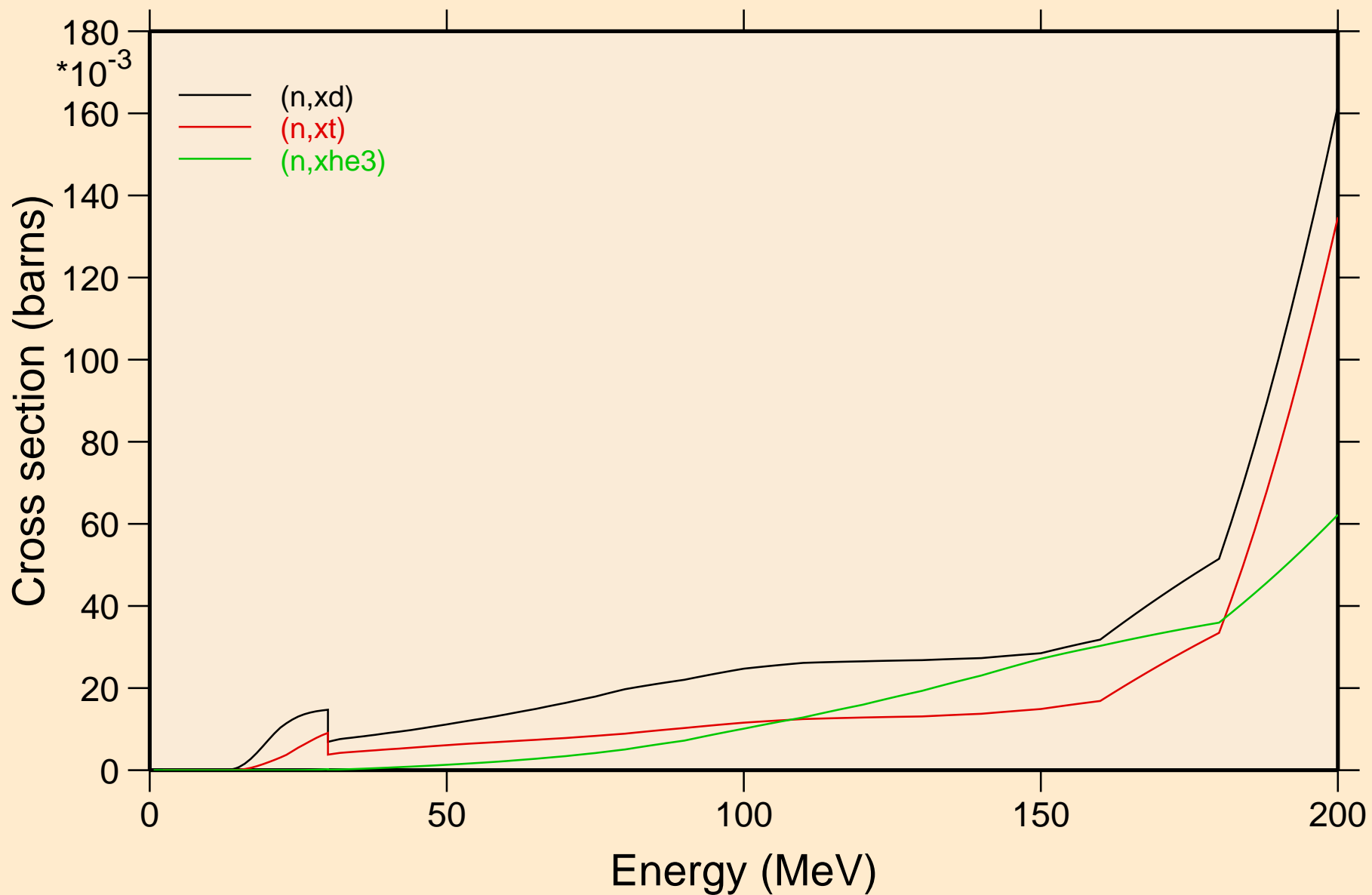


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

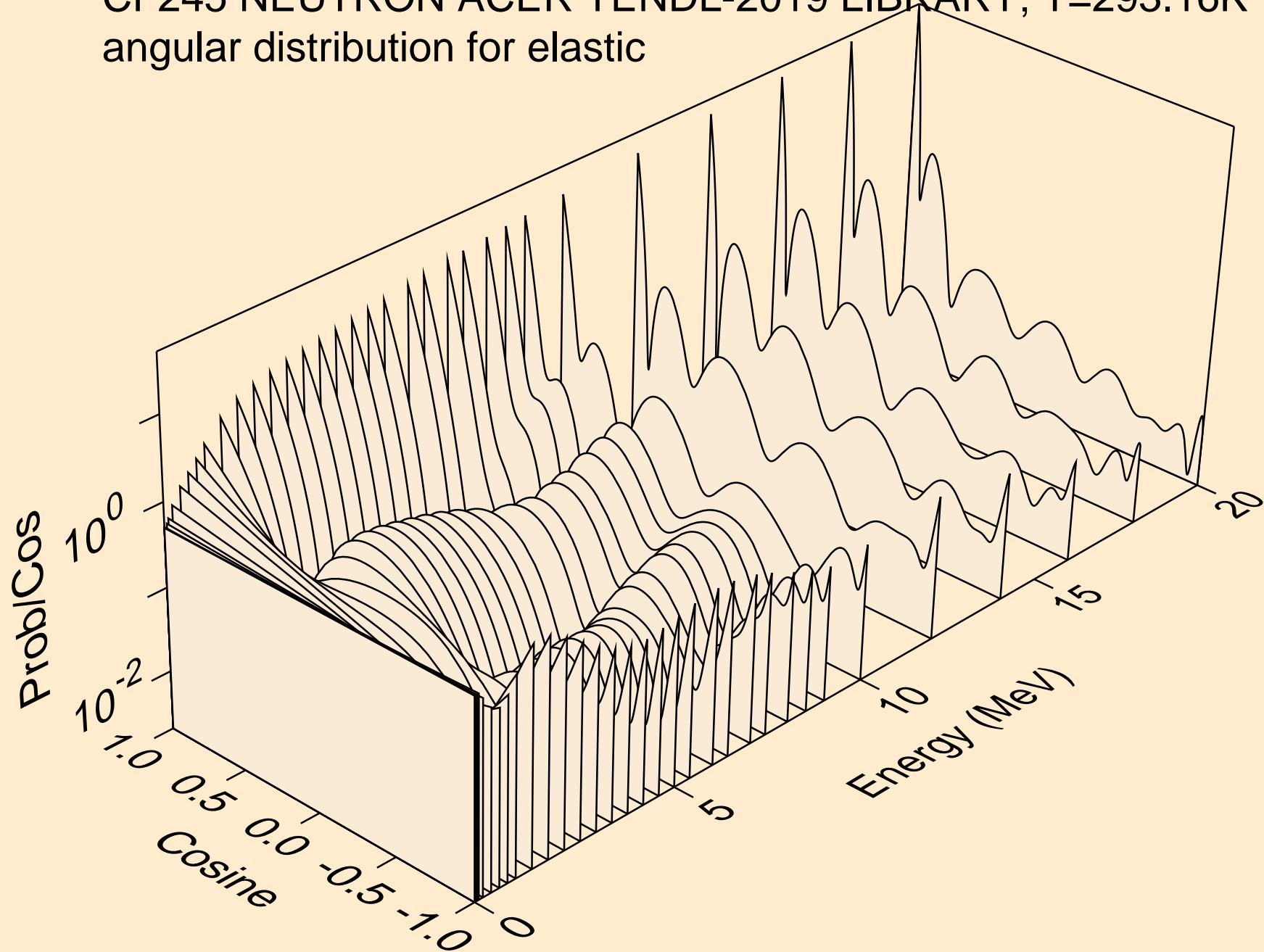
## Threshold reactions



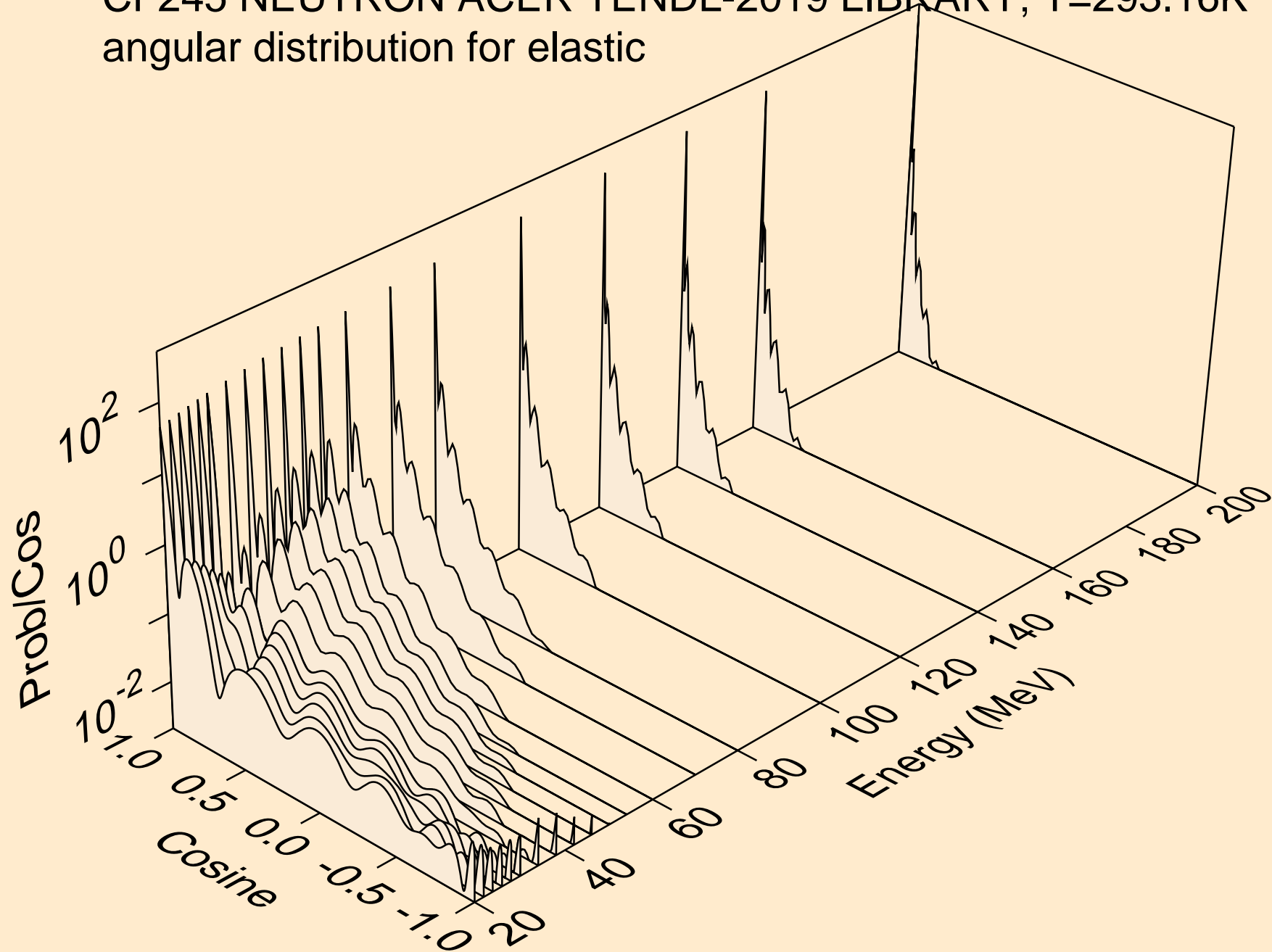
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

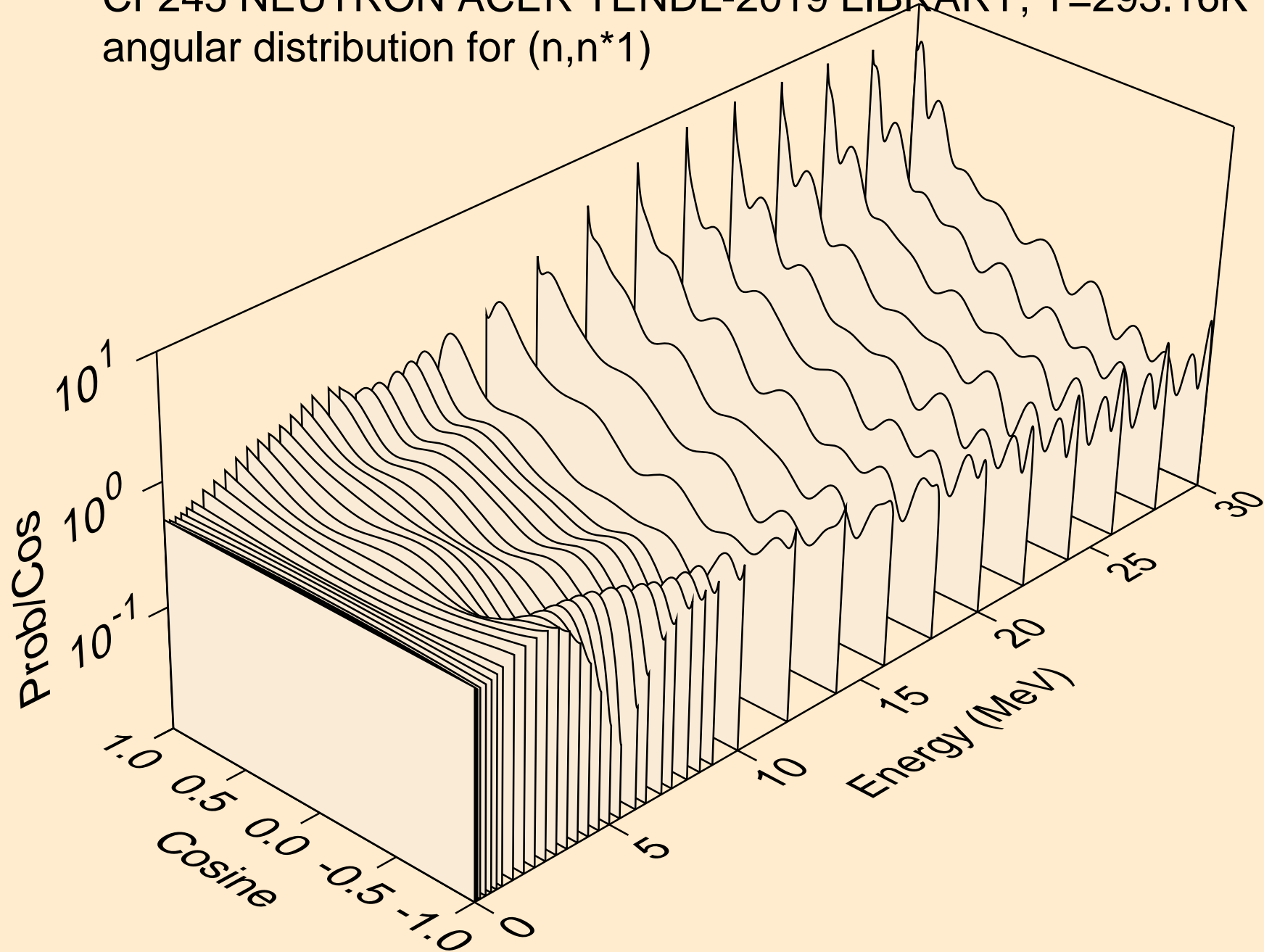


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

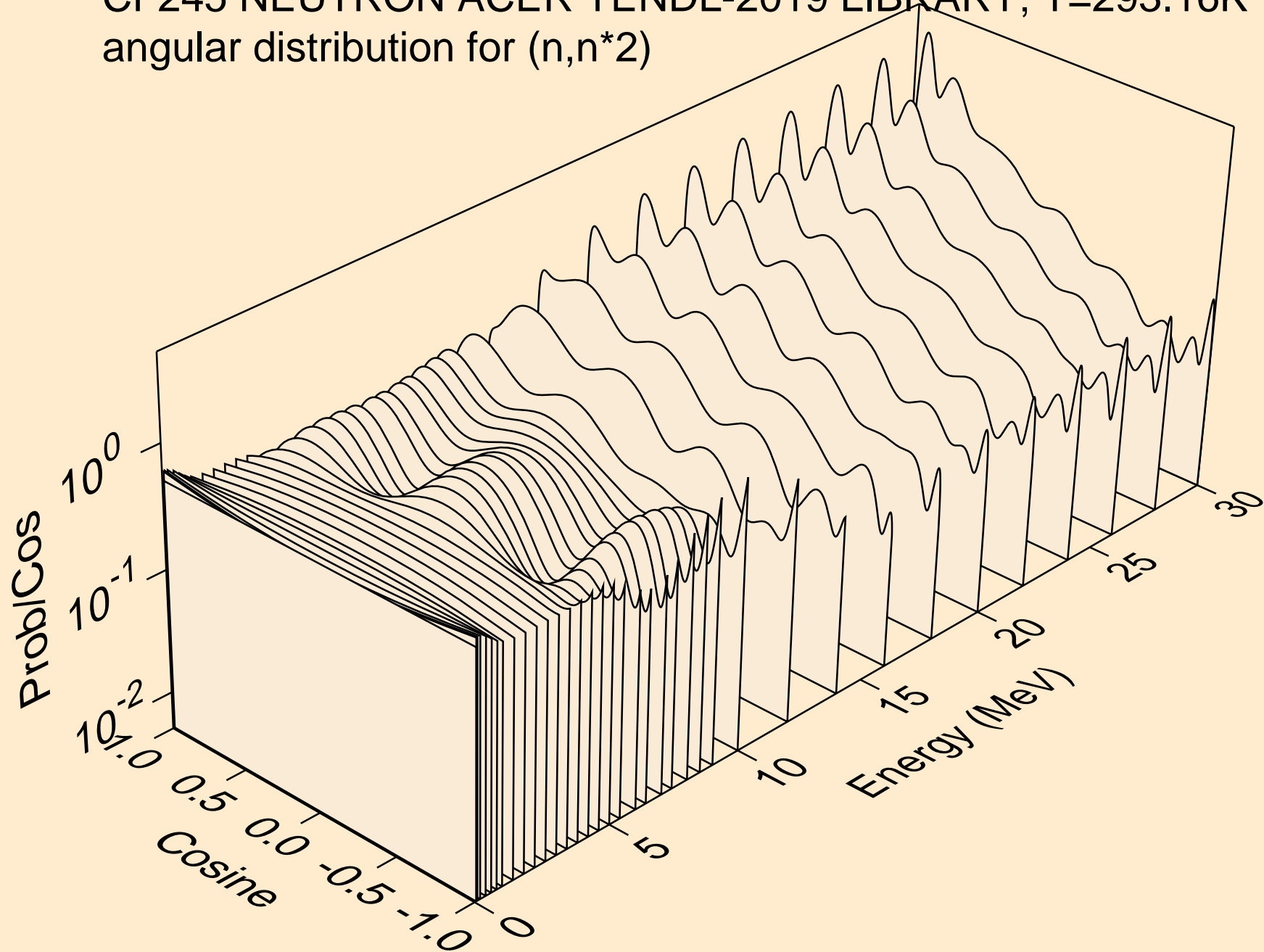




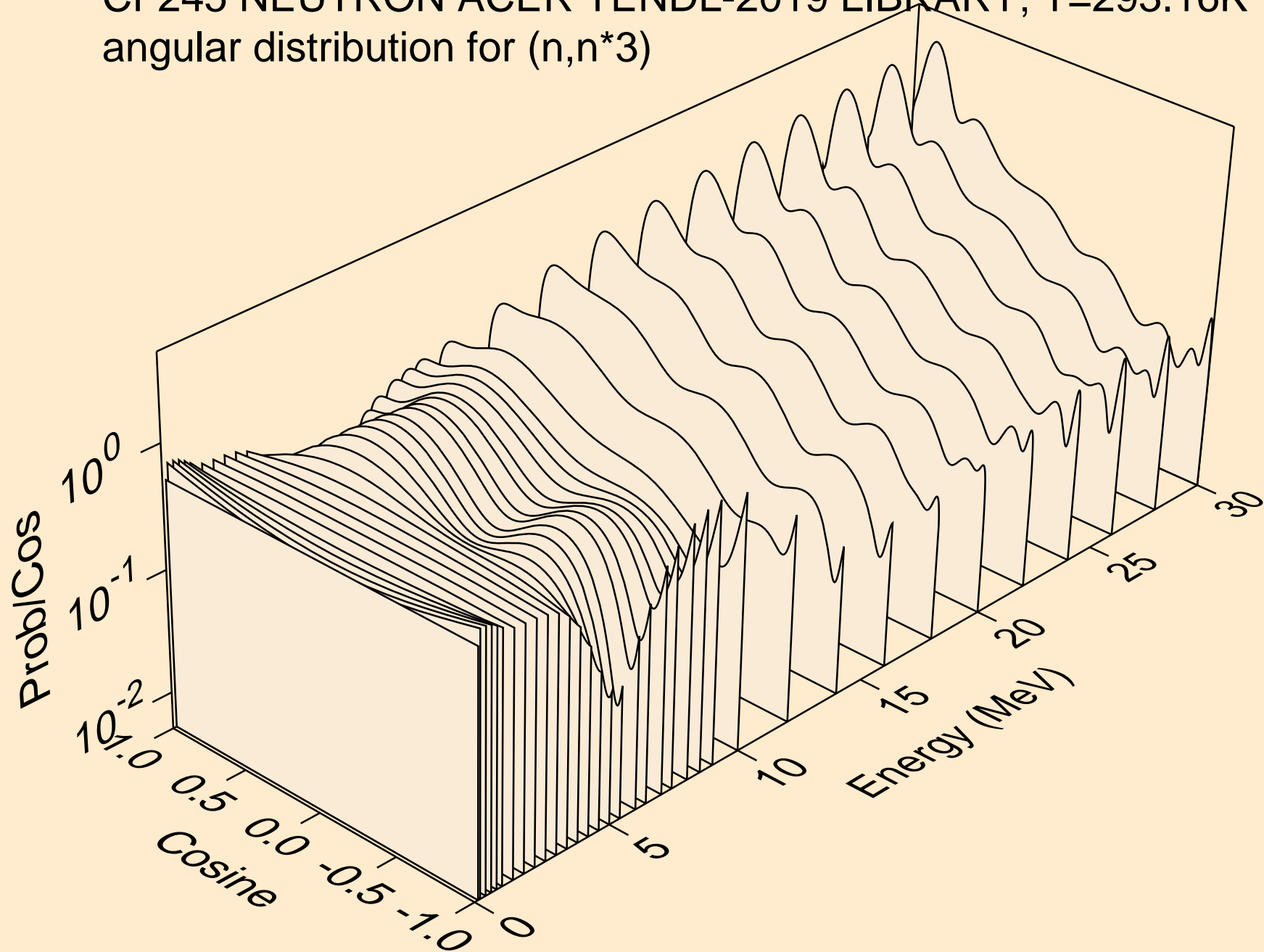
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)



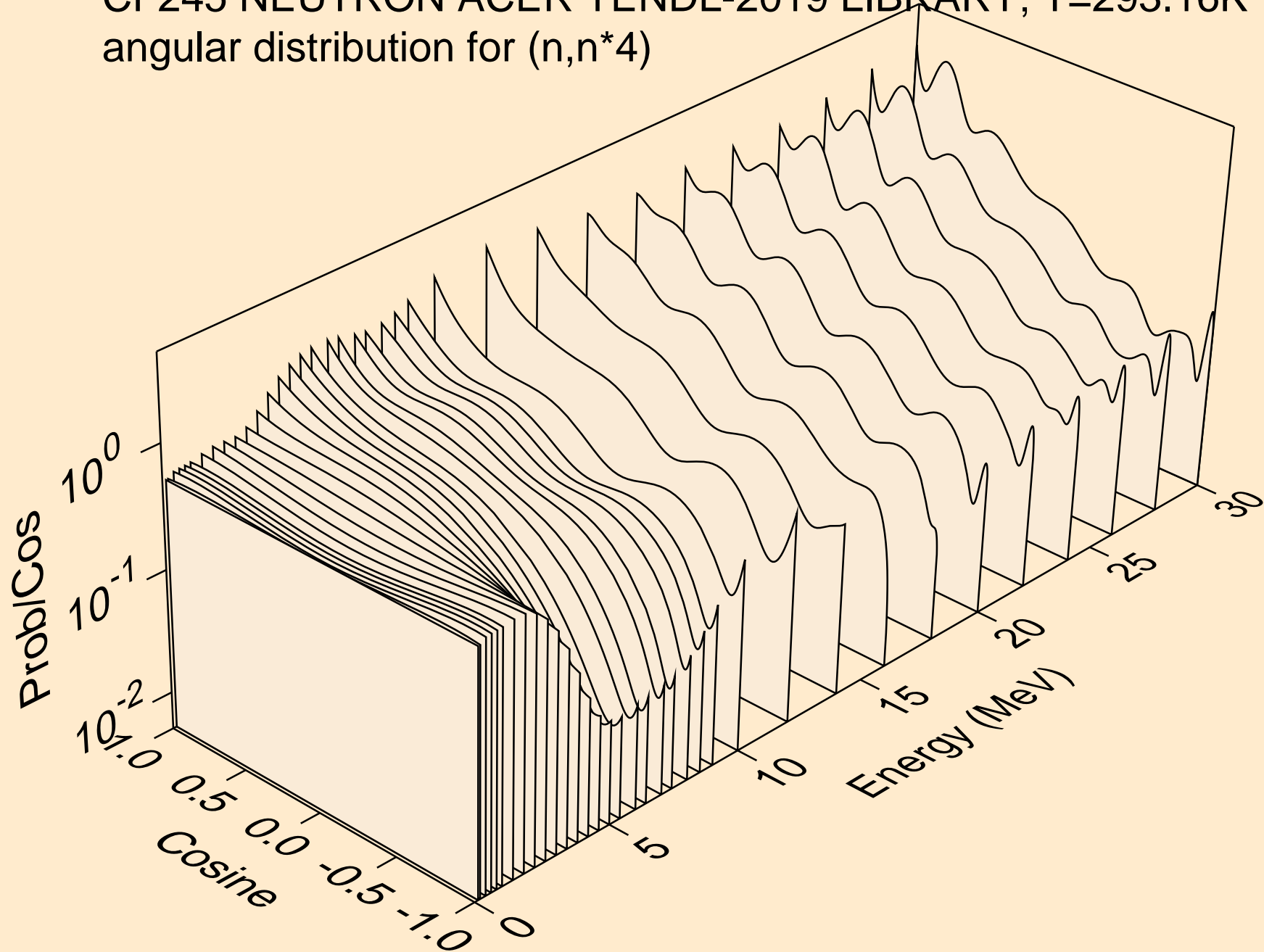
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angular distribution for (n,n\*2)



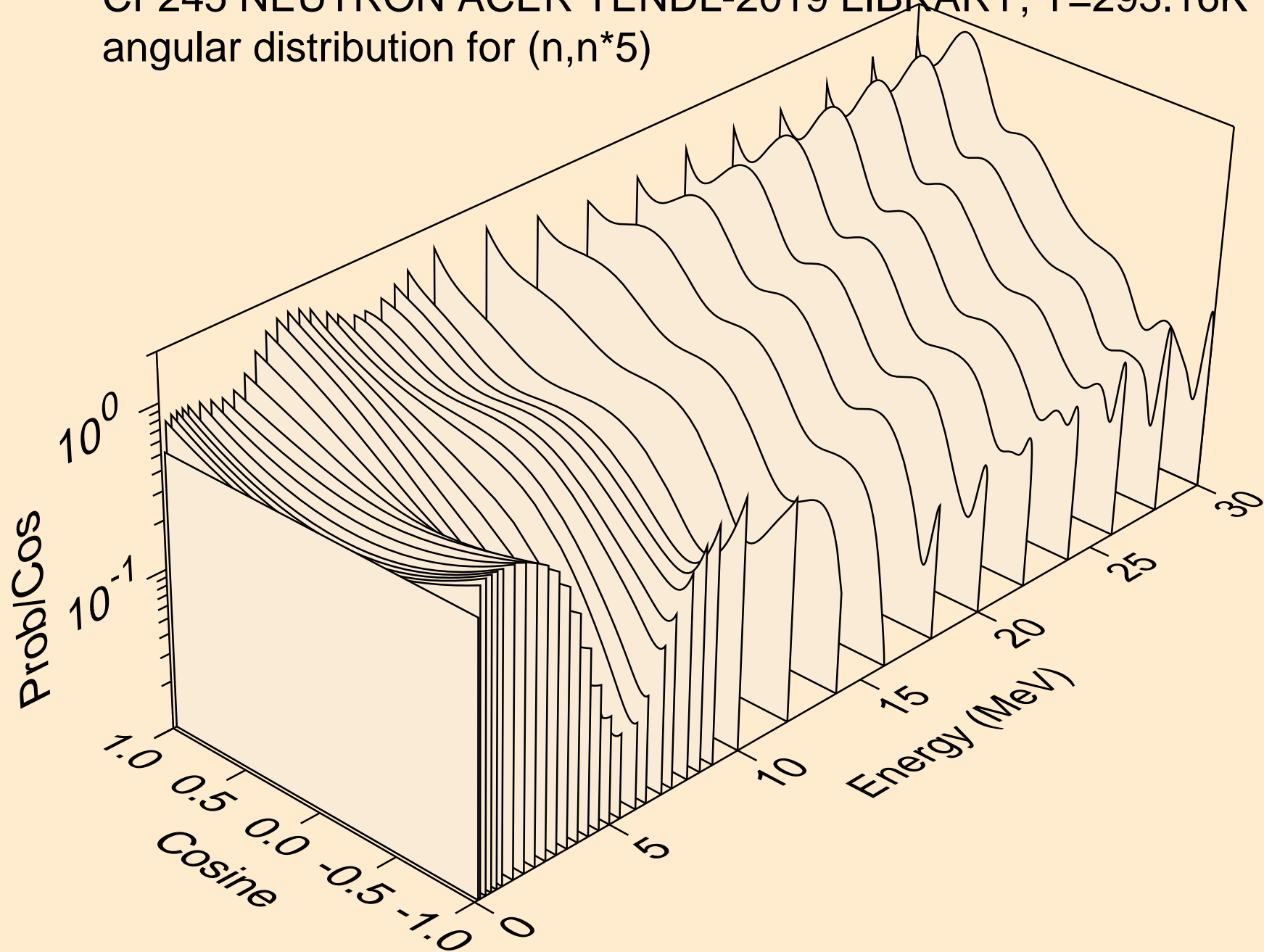
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)



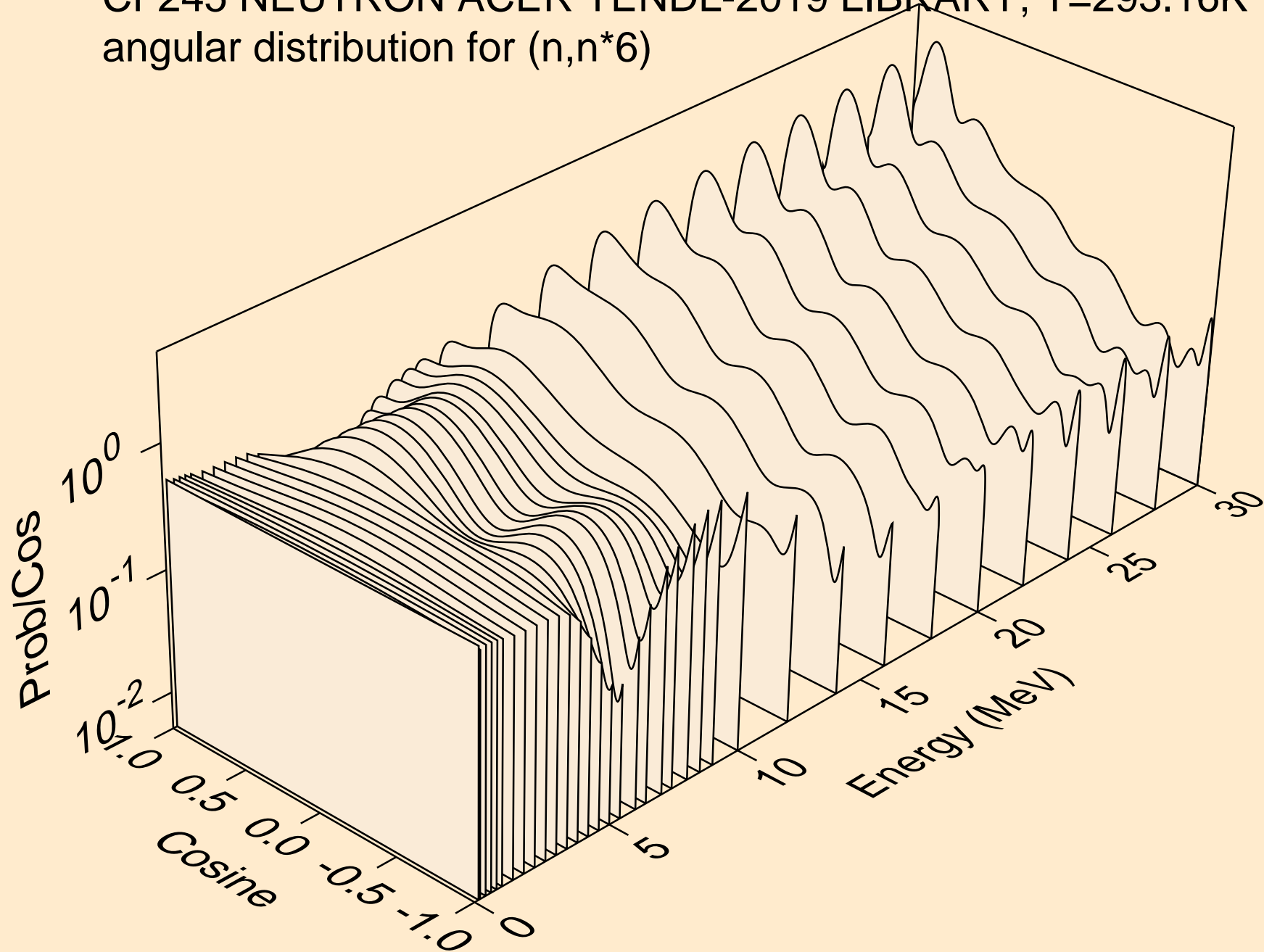
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angular distribution for (n,n\*4)



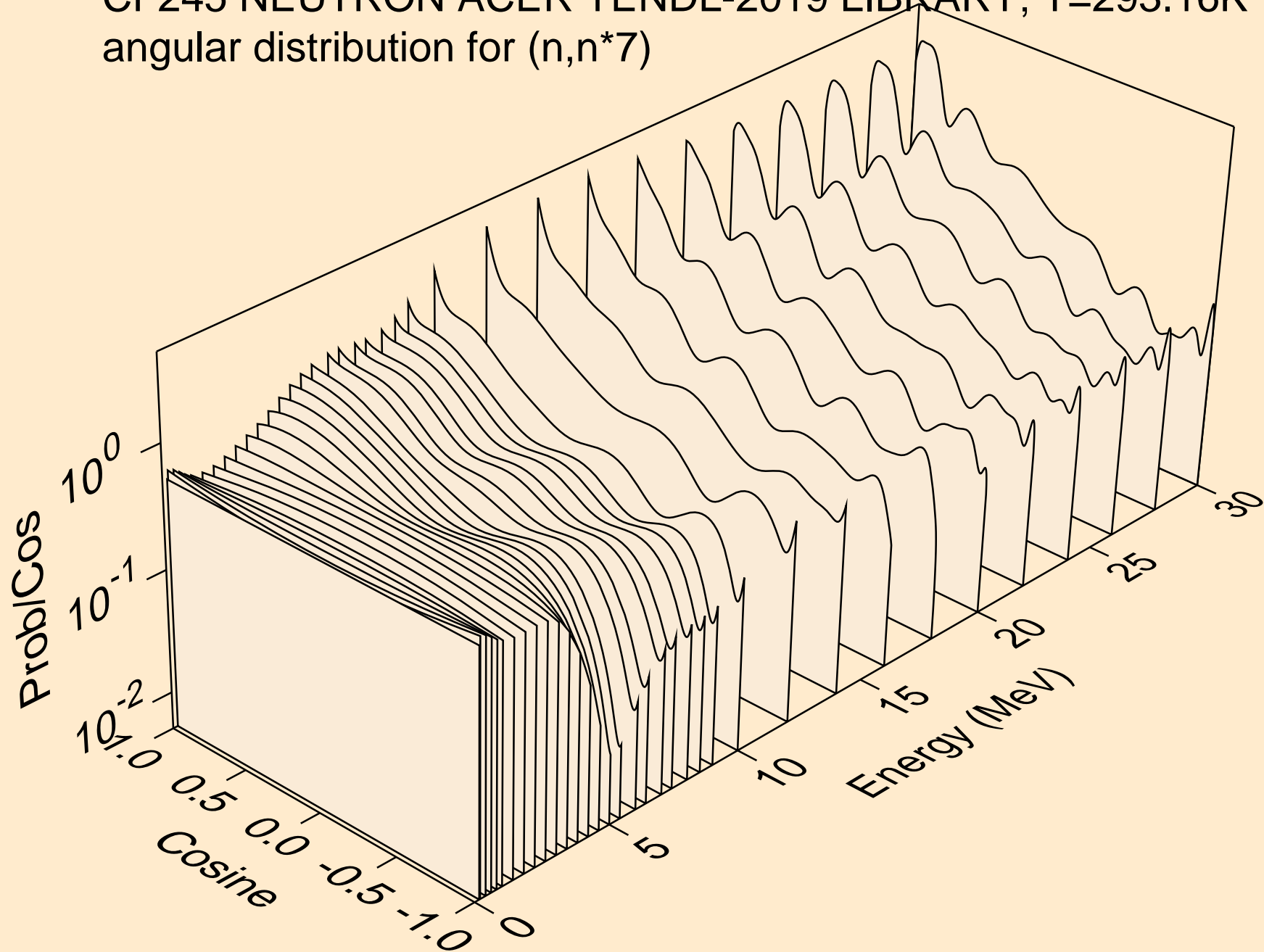
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*5)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*6)

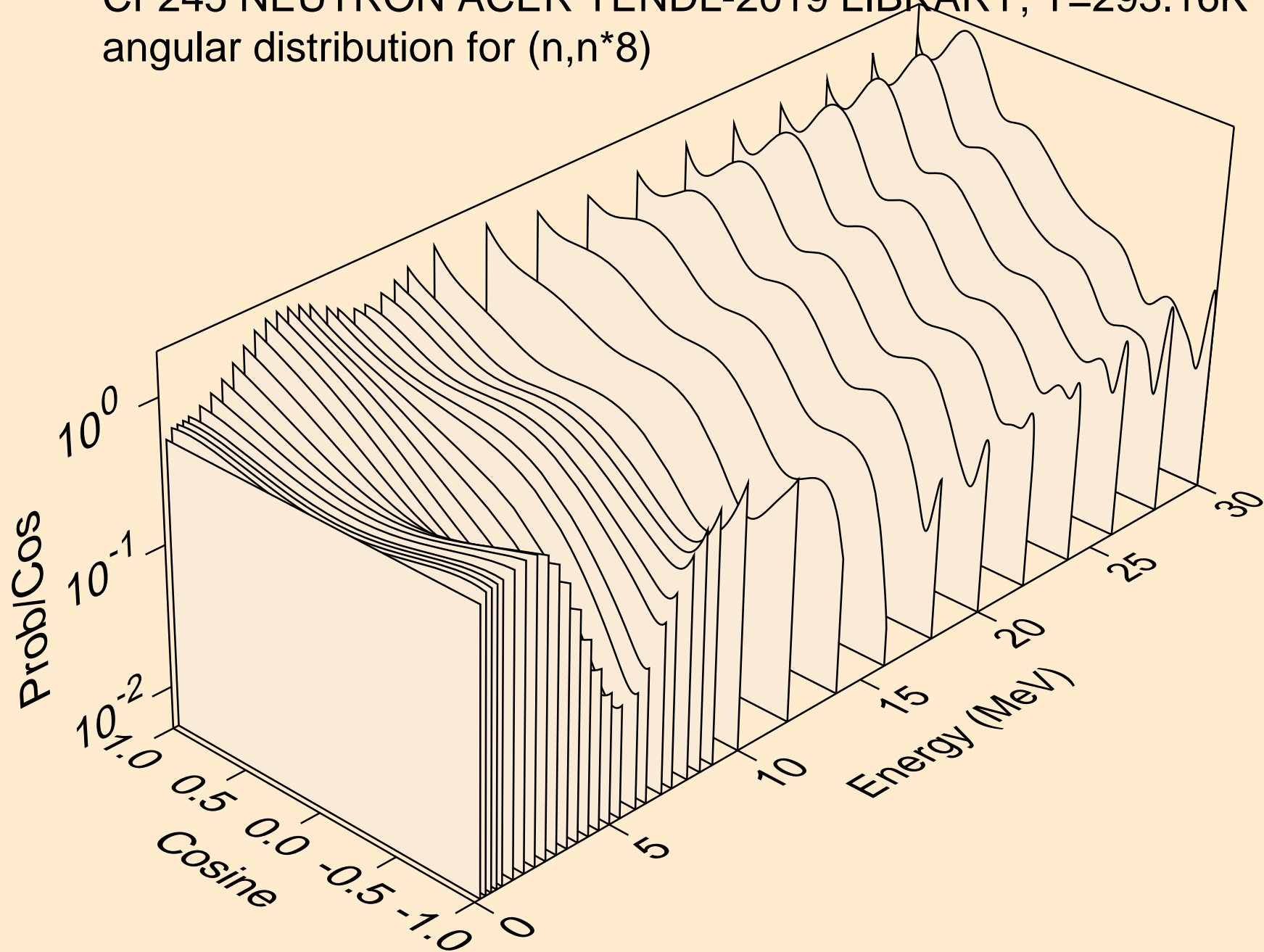


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



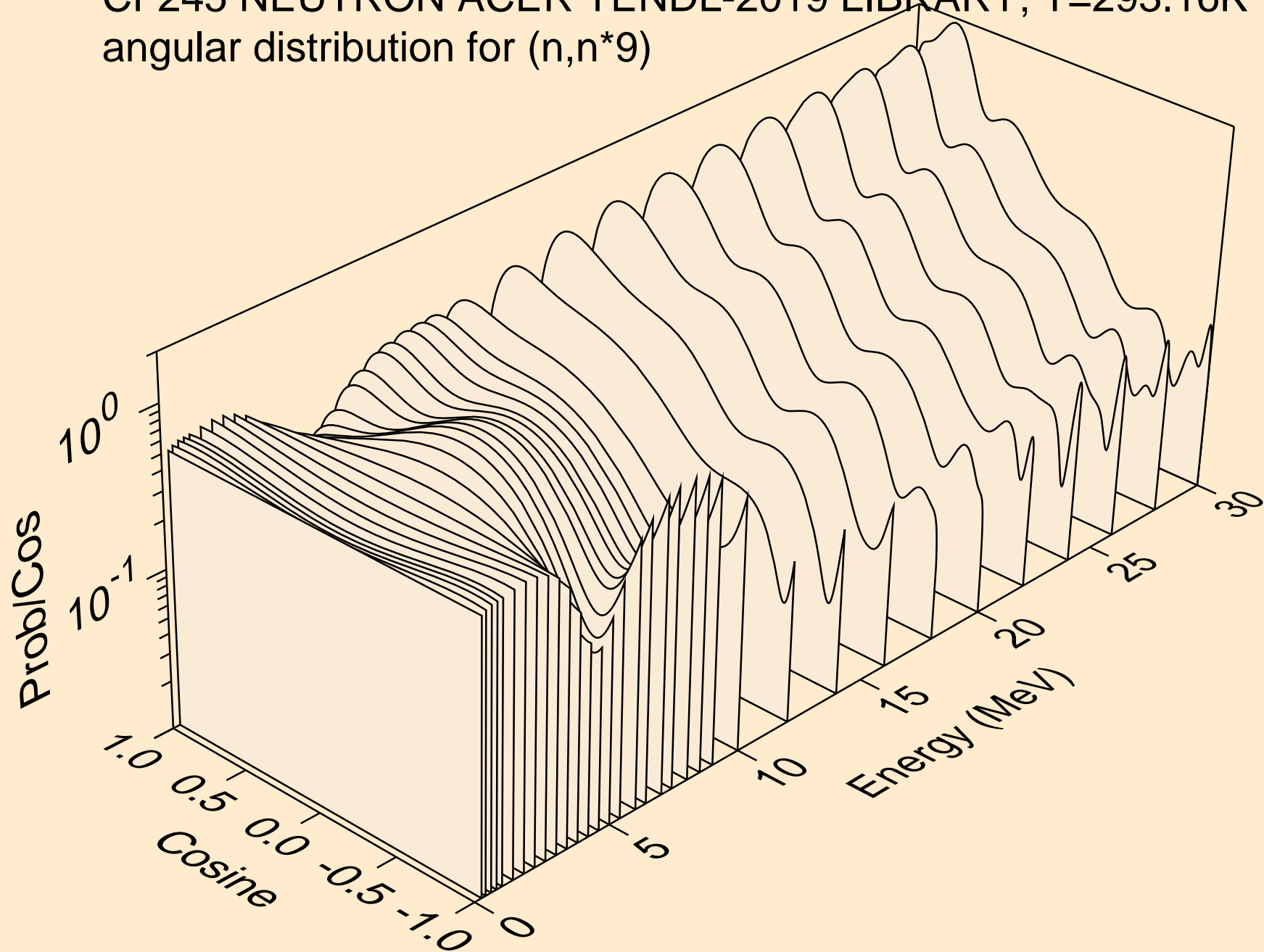


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

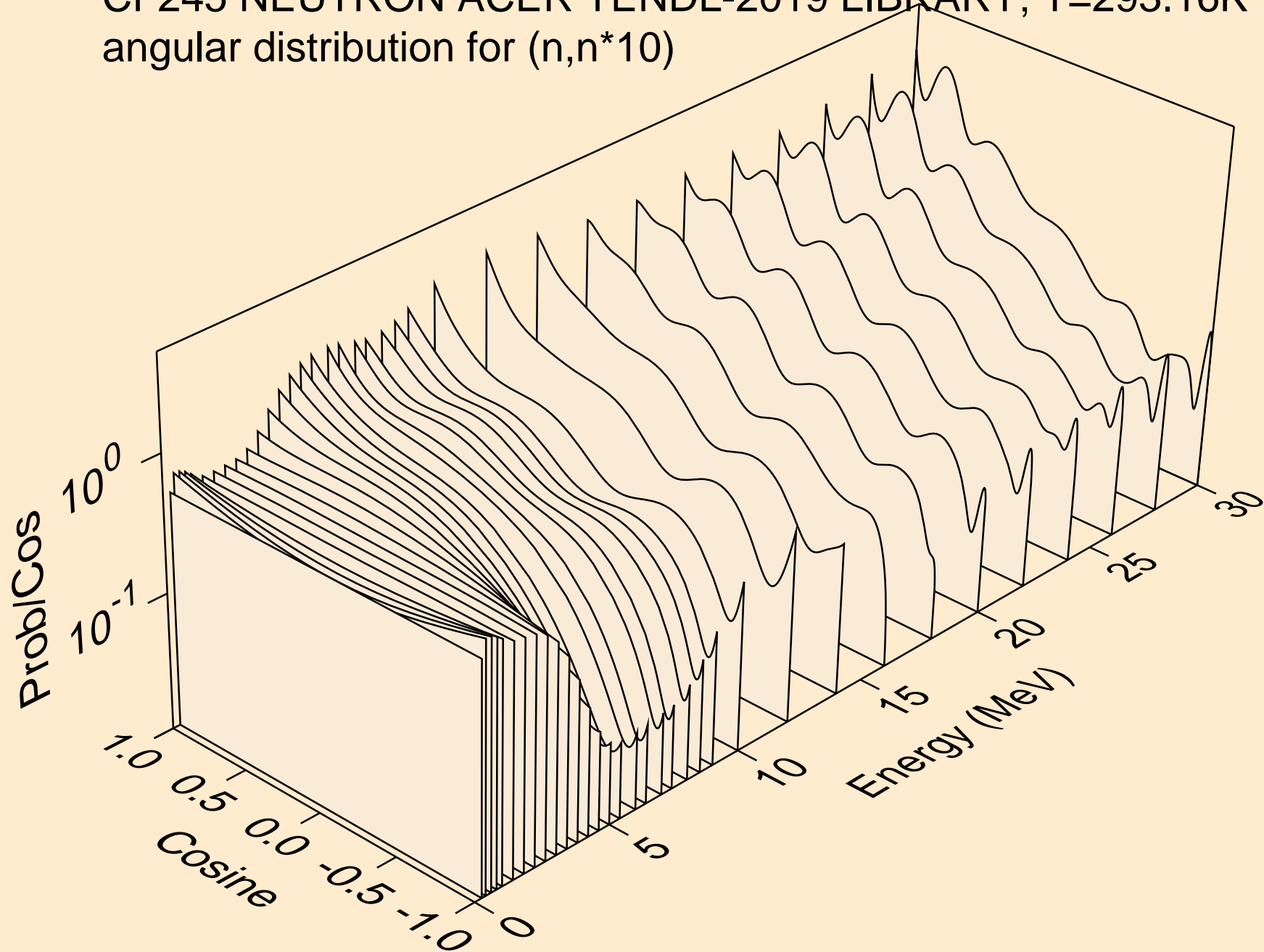




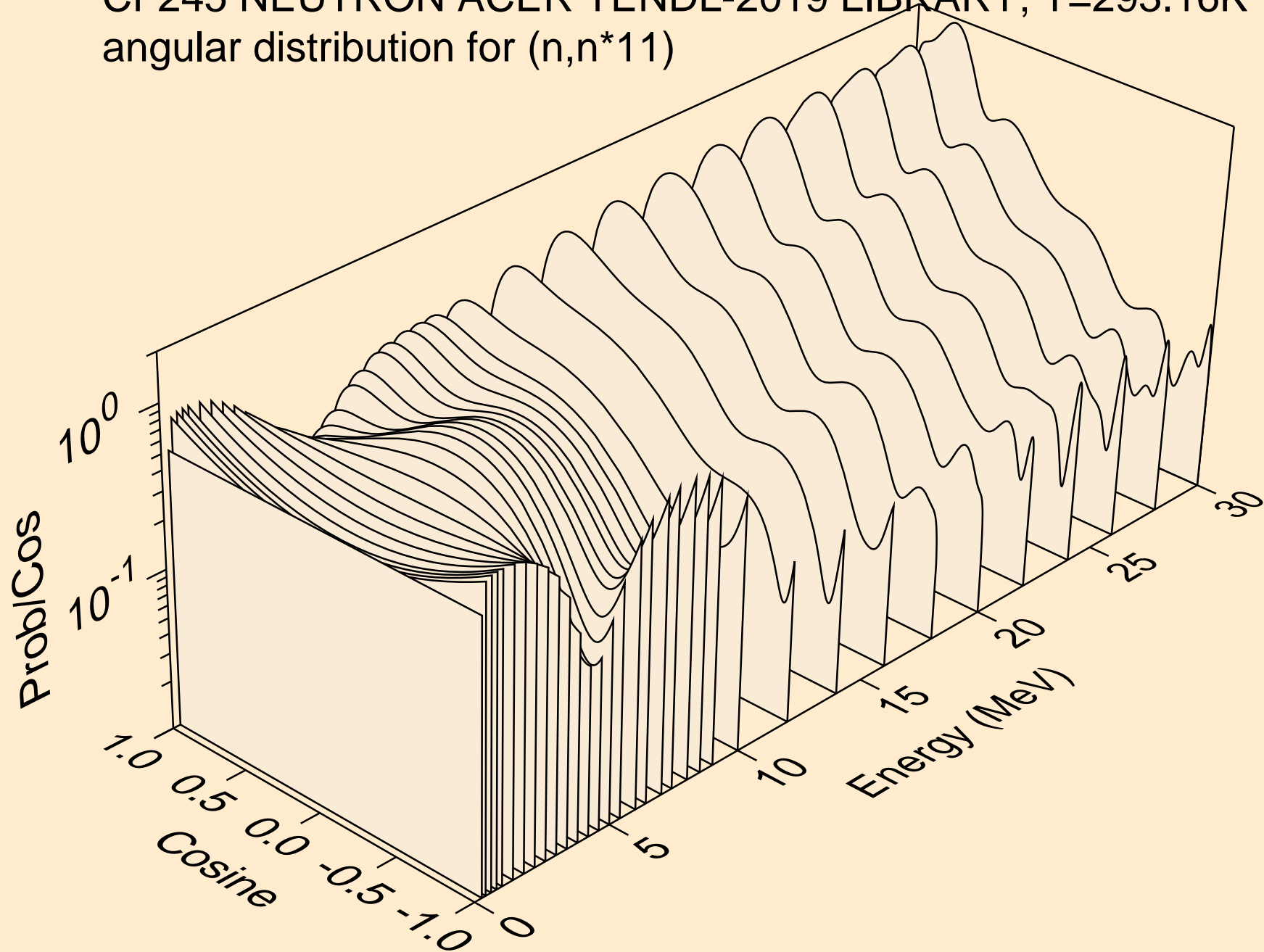
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angular distribution for (n,n\*9)



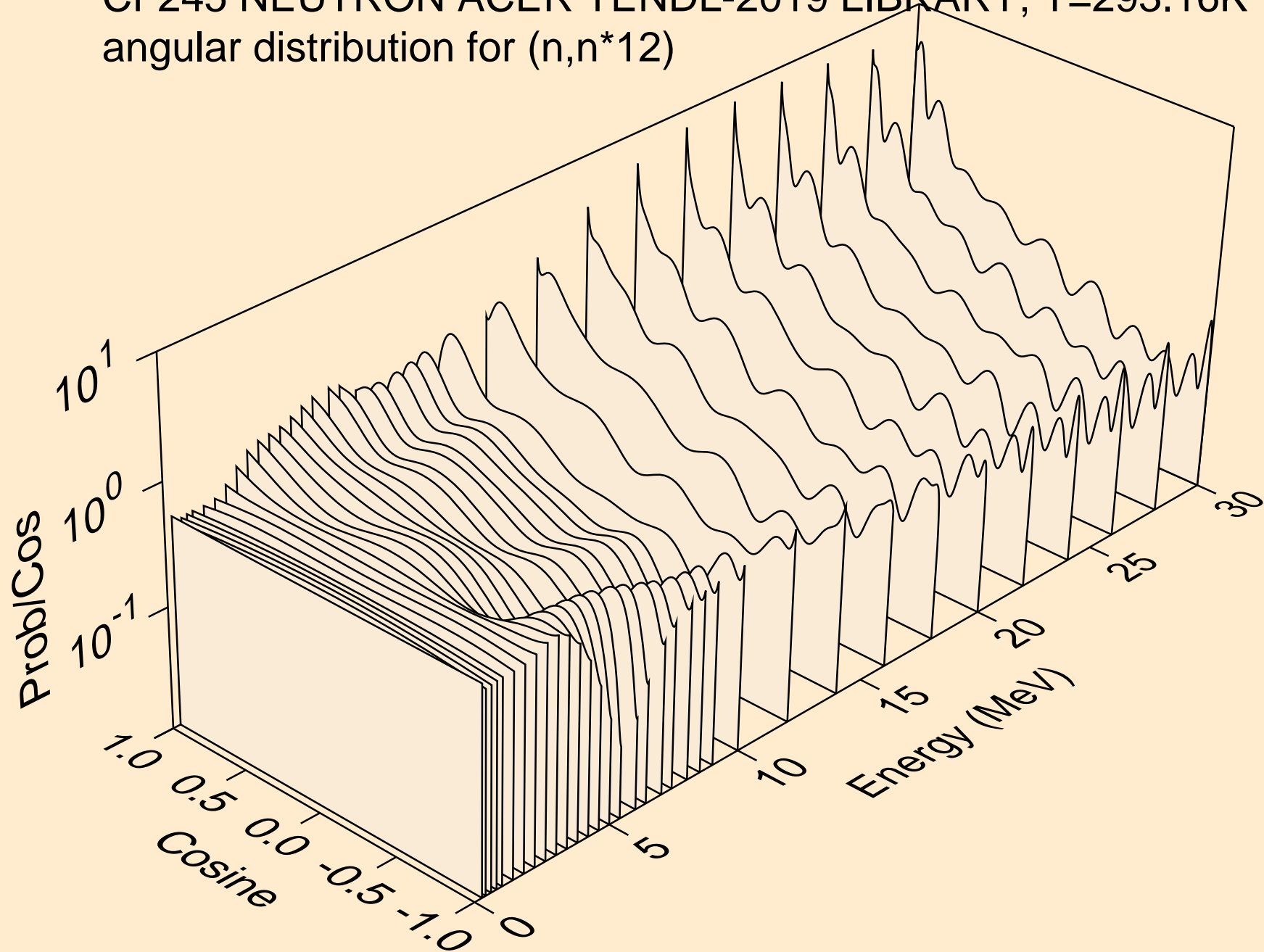
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angular distribution for (n,n\*10)



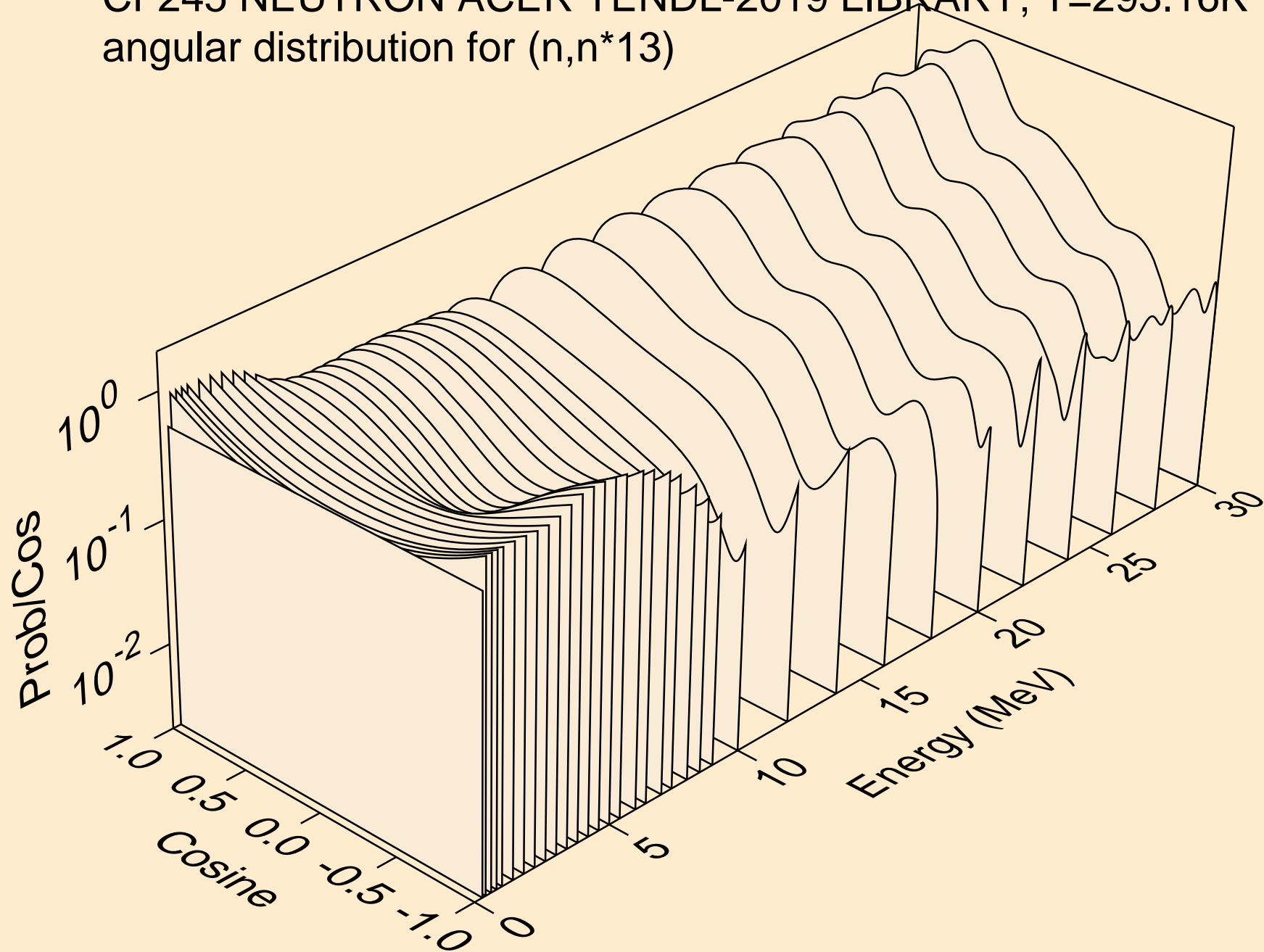
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angular distribution for (n,n\*11)



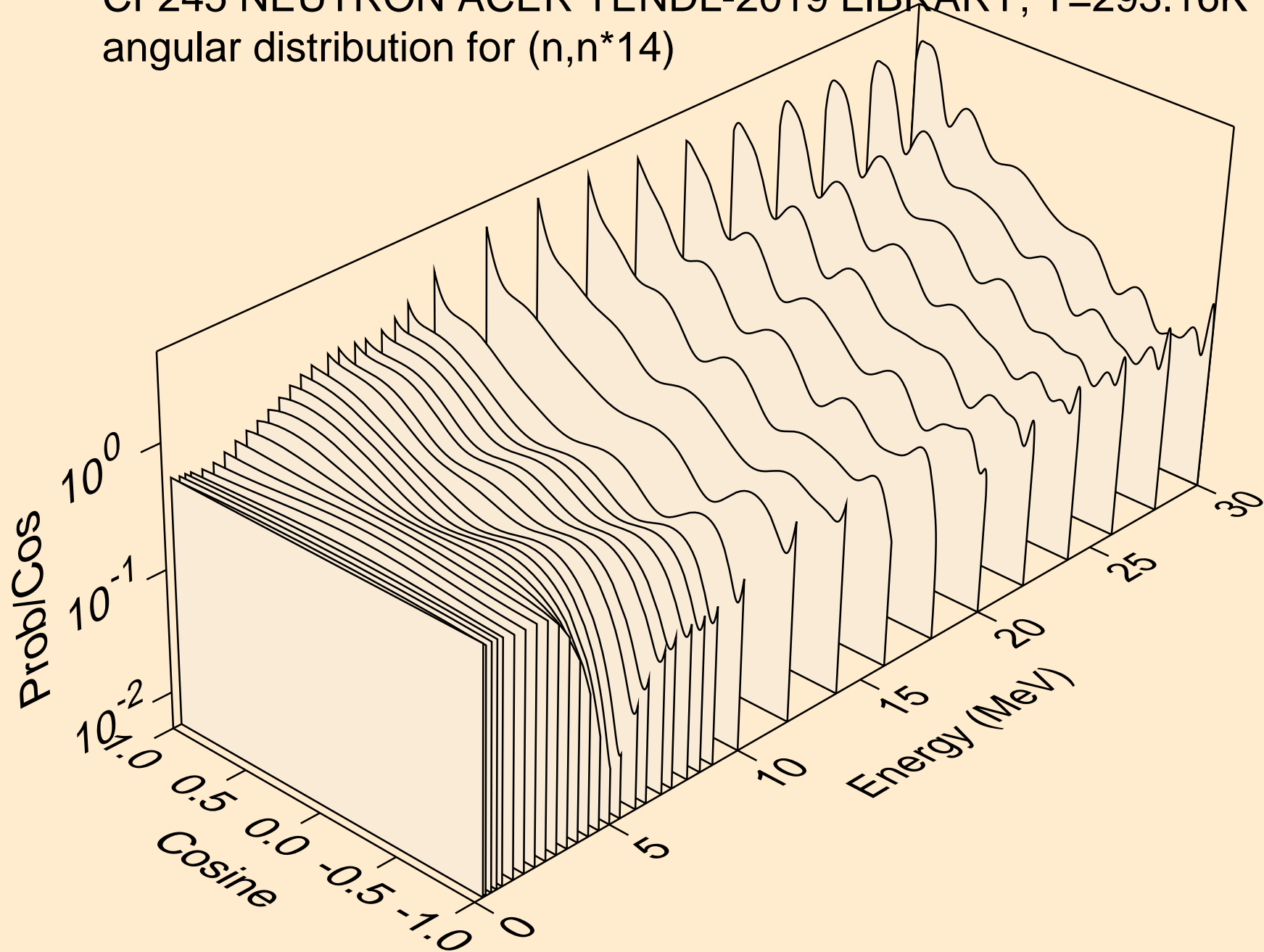
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angular distribution for (n,n\*12)



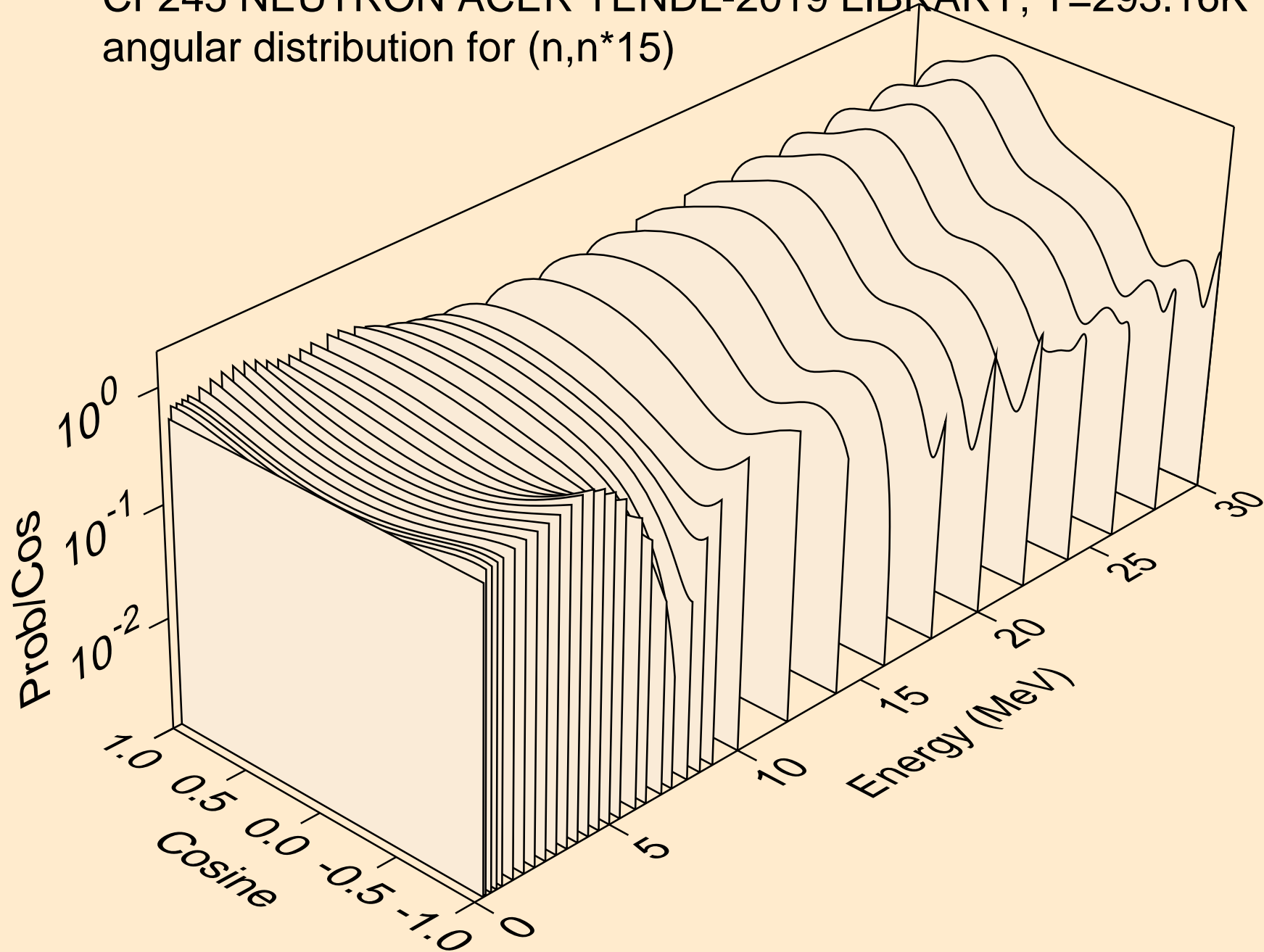
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angular distribution for (n,n\*13)



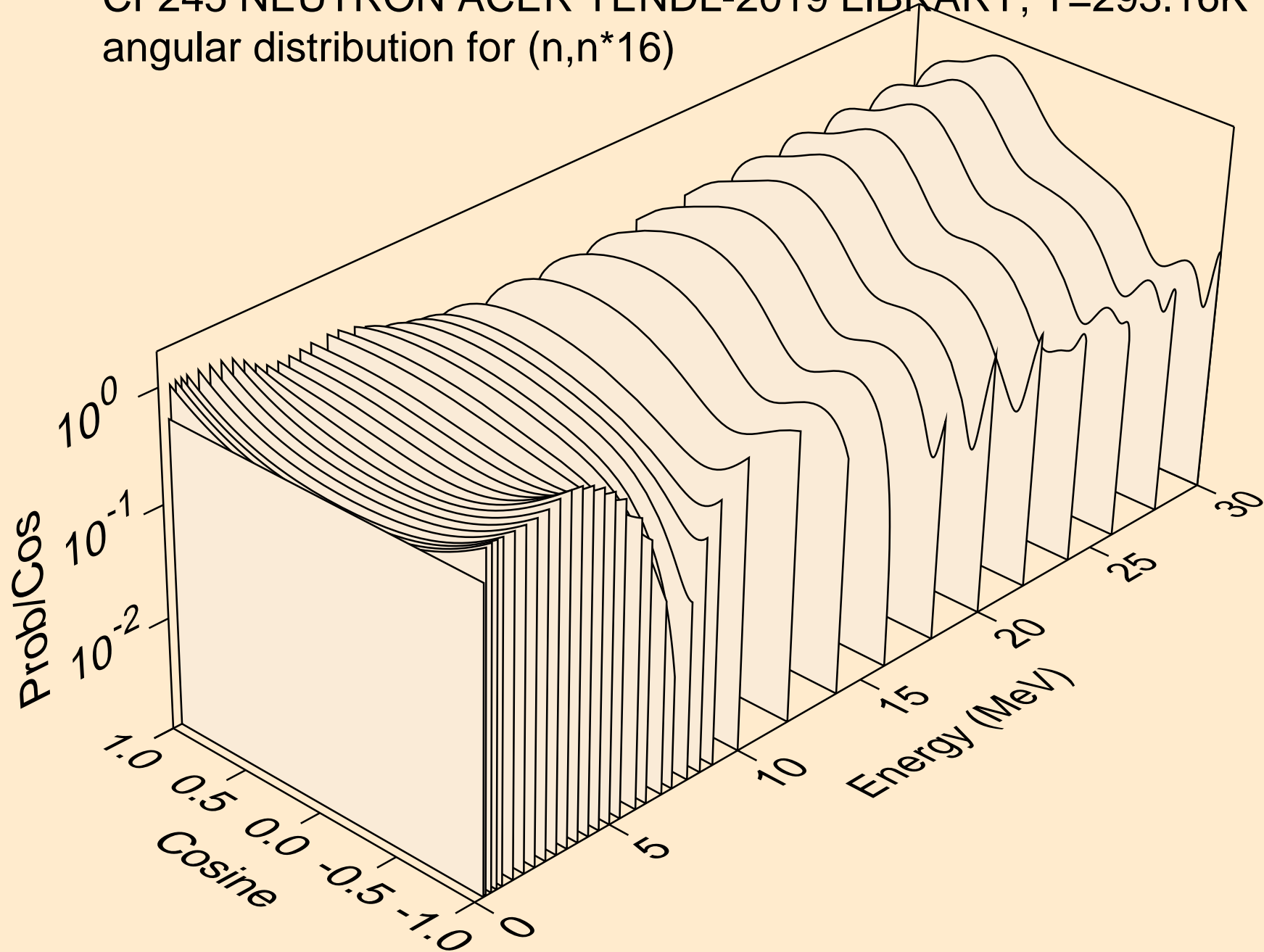
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*14)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*15)

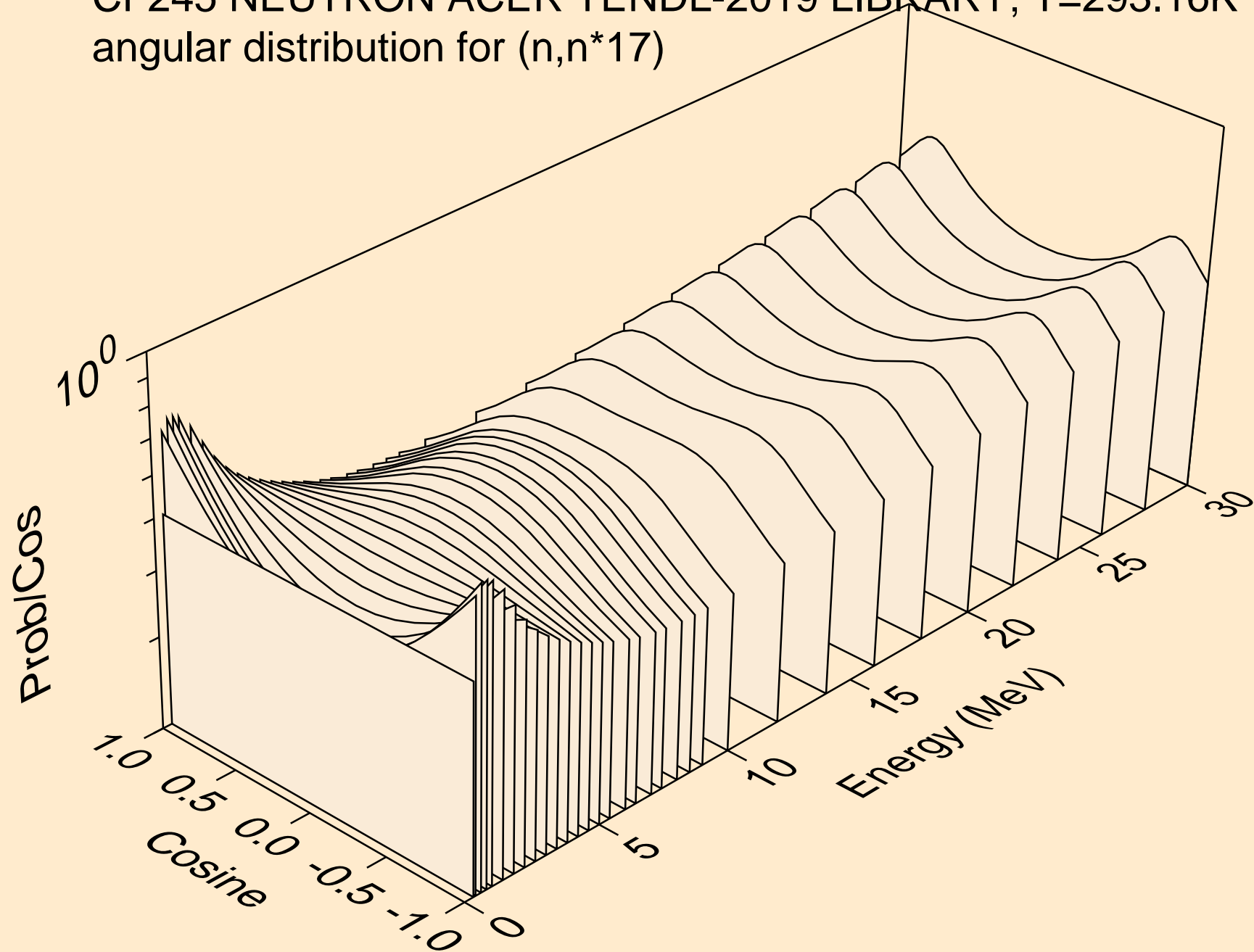


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angular distribution for (n,n\*16)

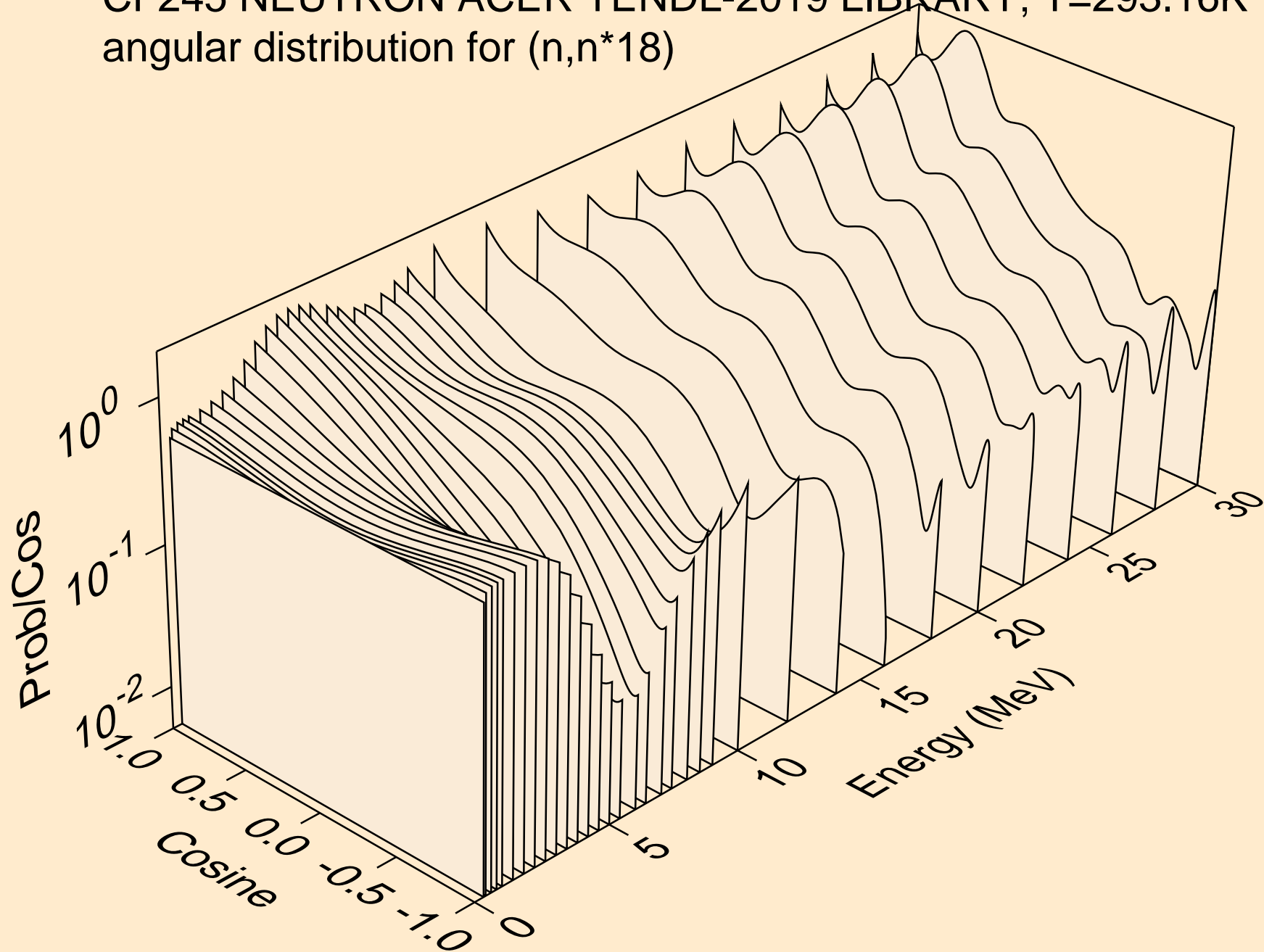




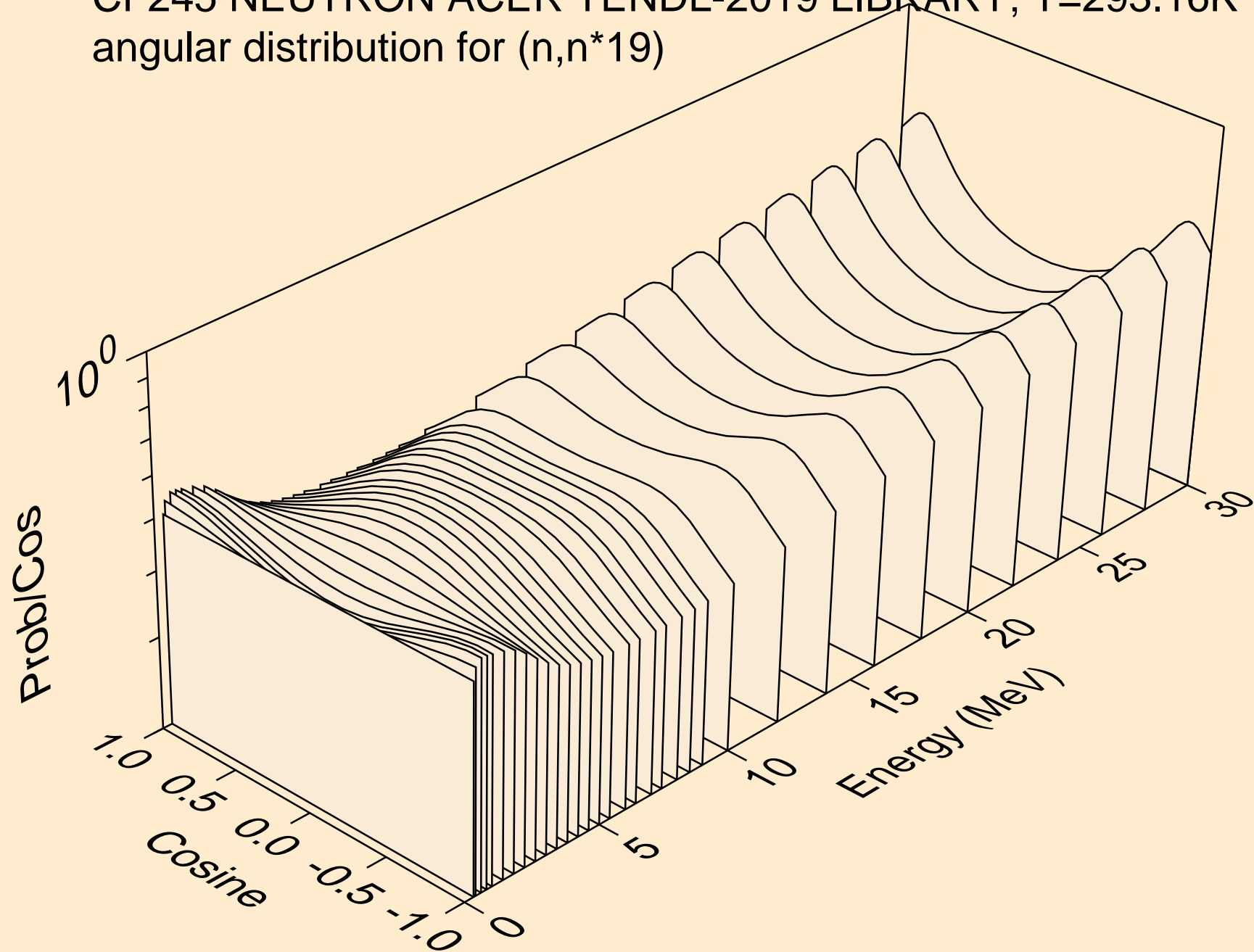
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angular distribution for (n,n\*17)



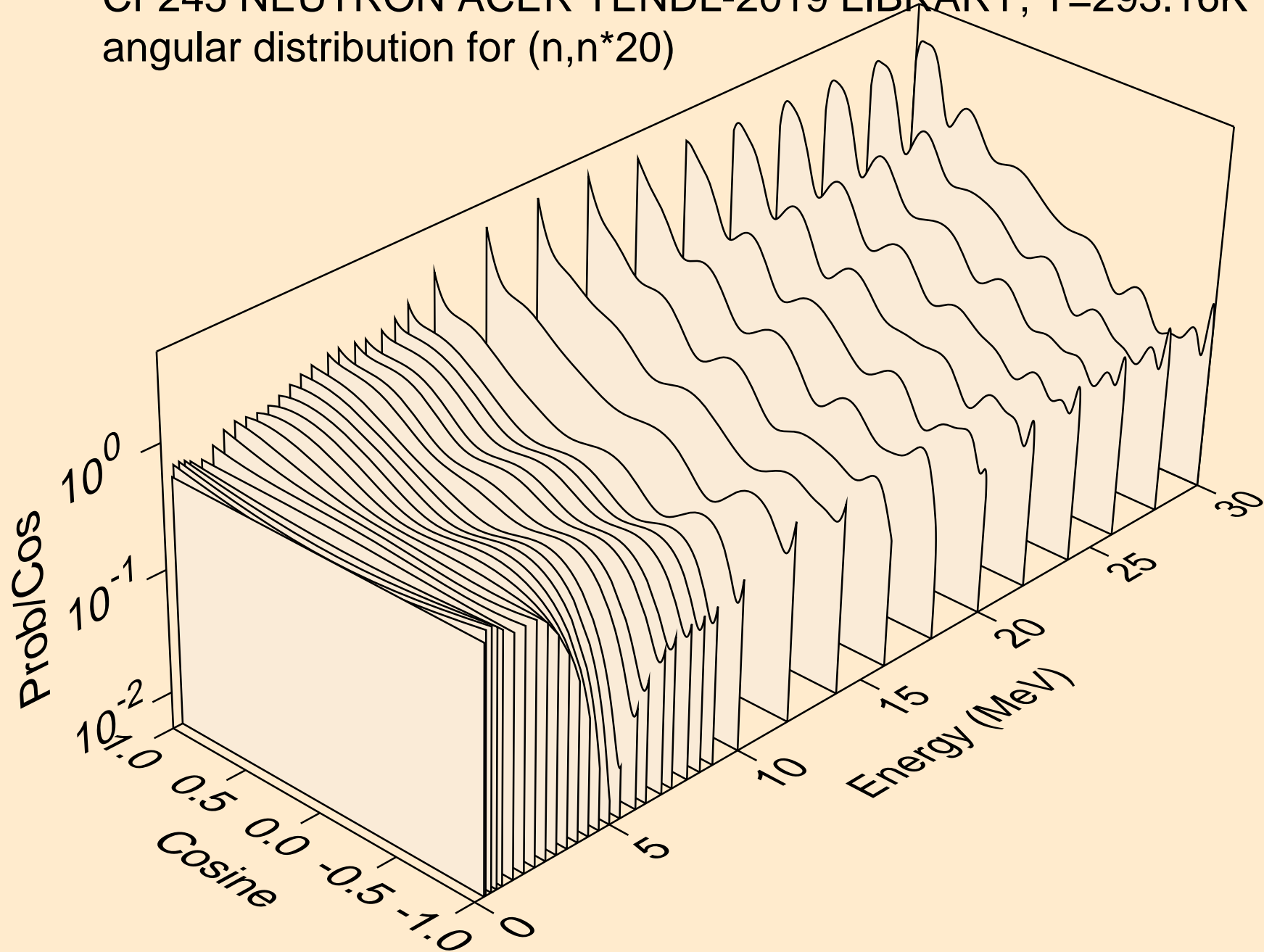
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angular distribution for (n,n\*18)



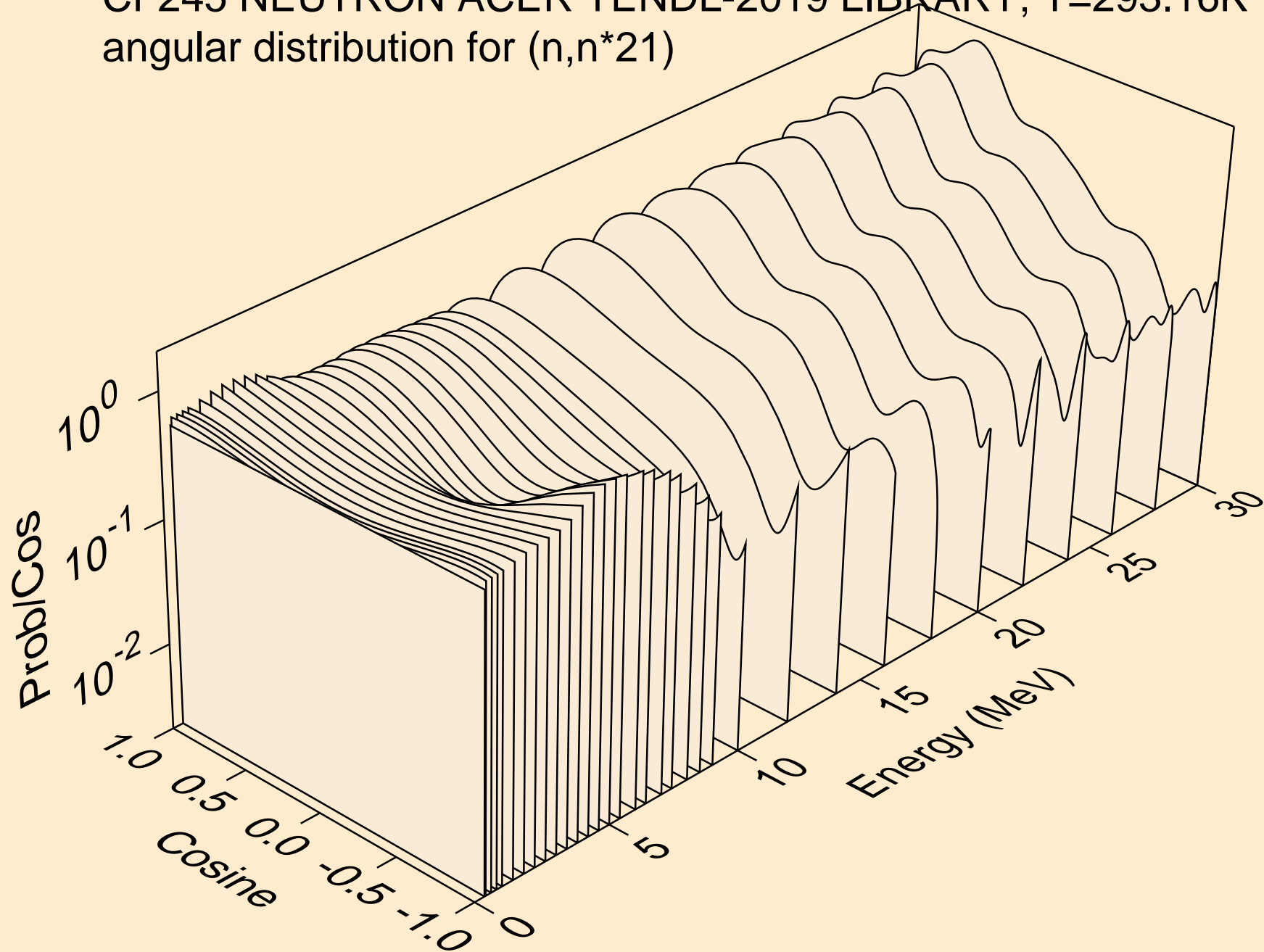
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angular distribution for (n,n\*19)



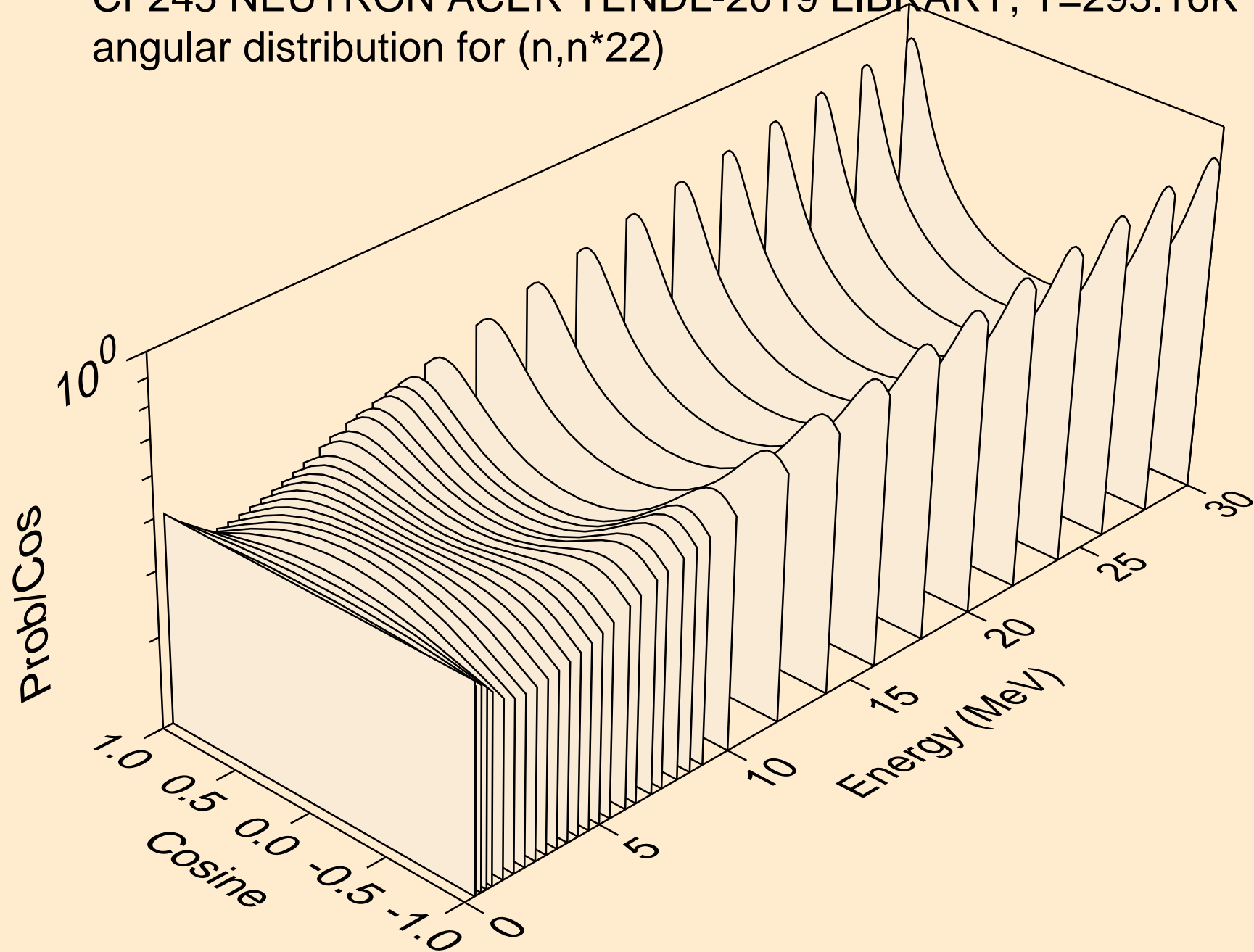
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angular distribution for (n,n\*20)



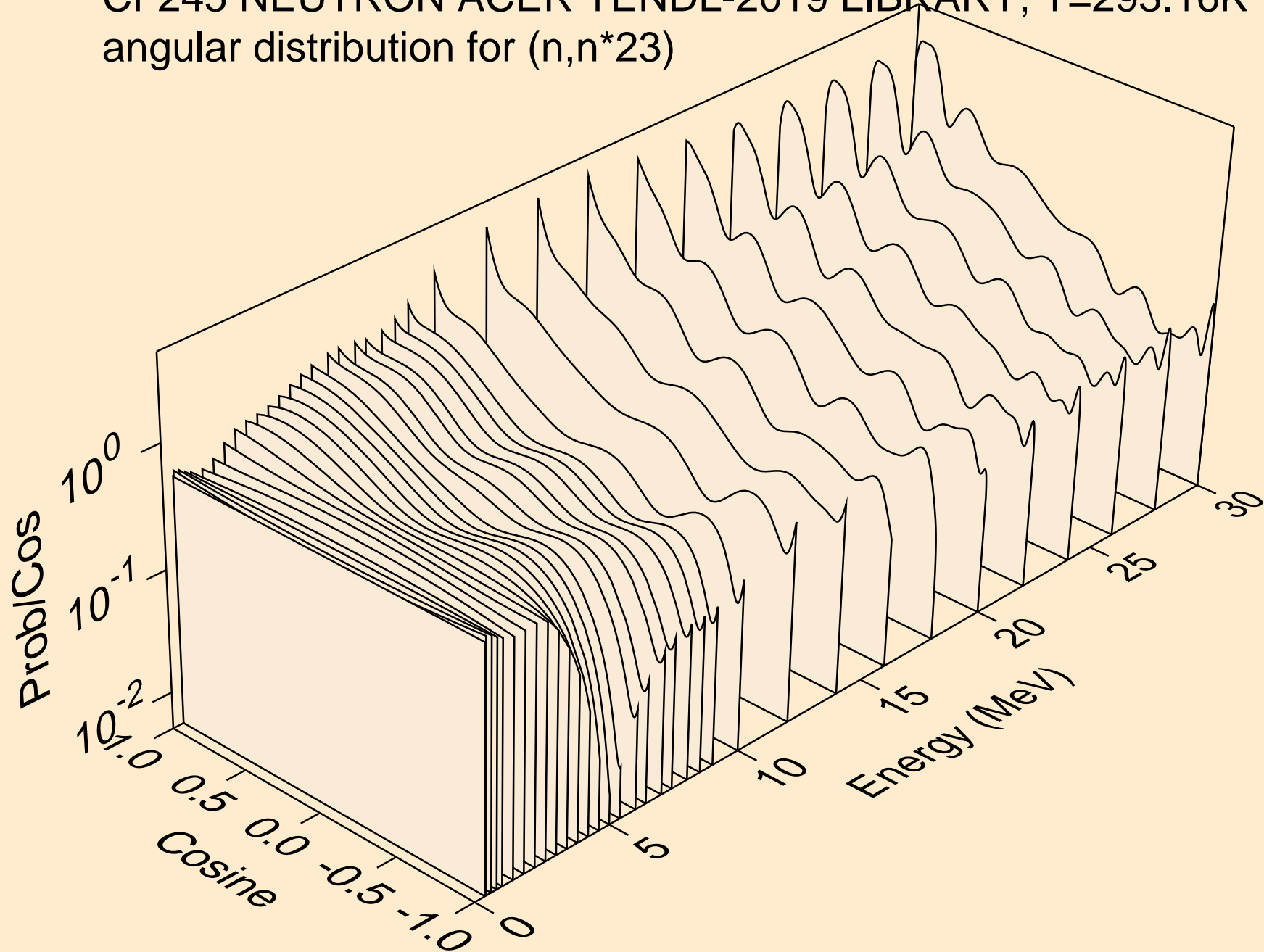
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angular distribution for (n,n\*21)



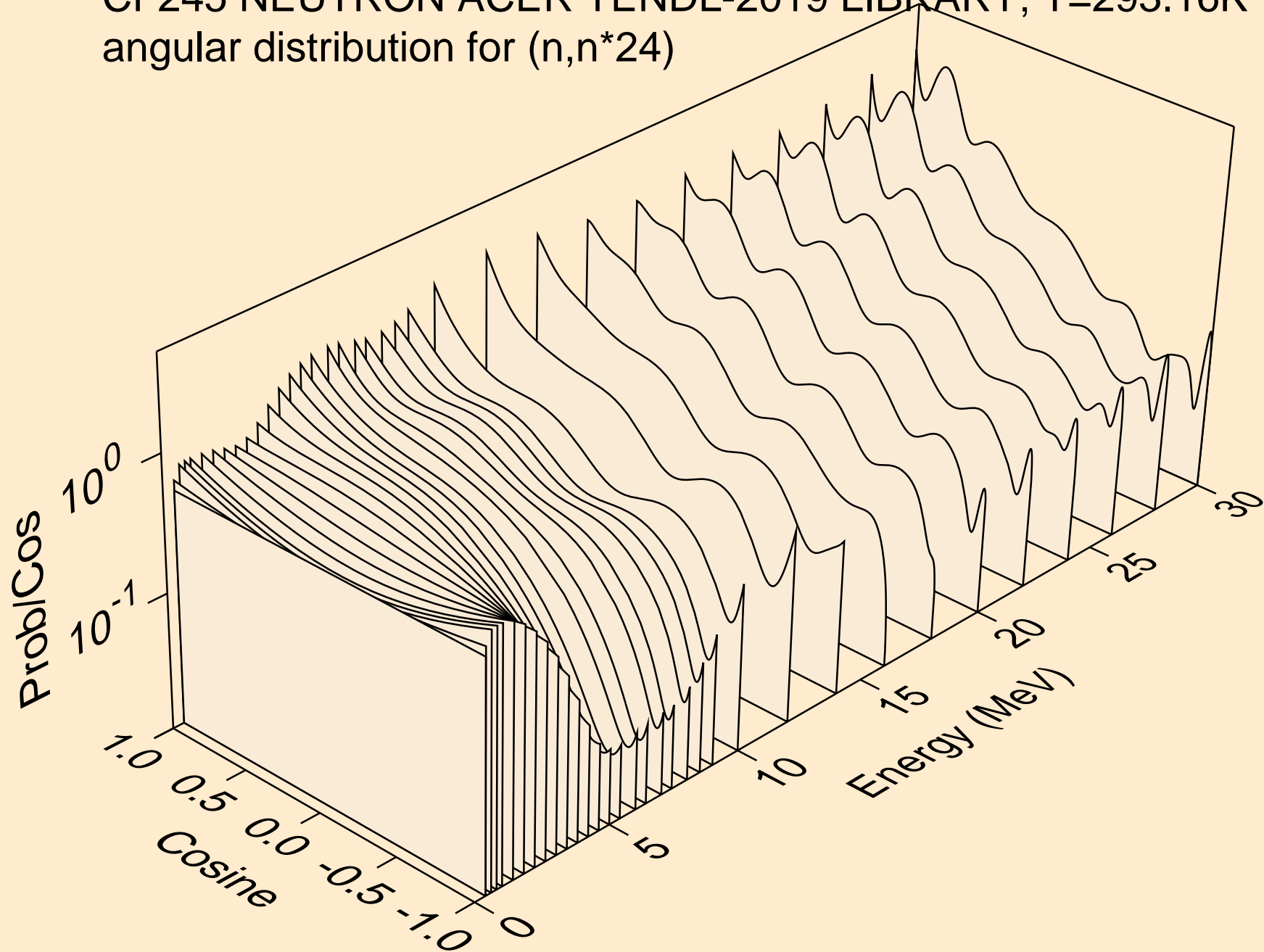
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*22)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)

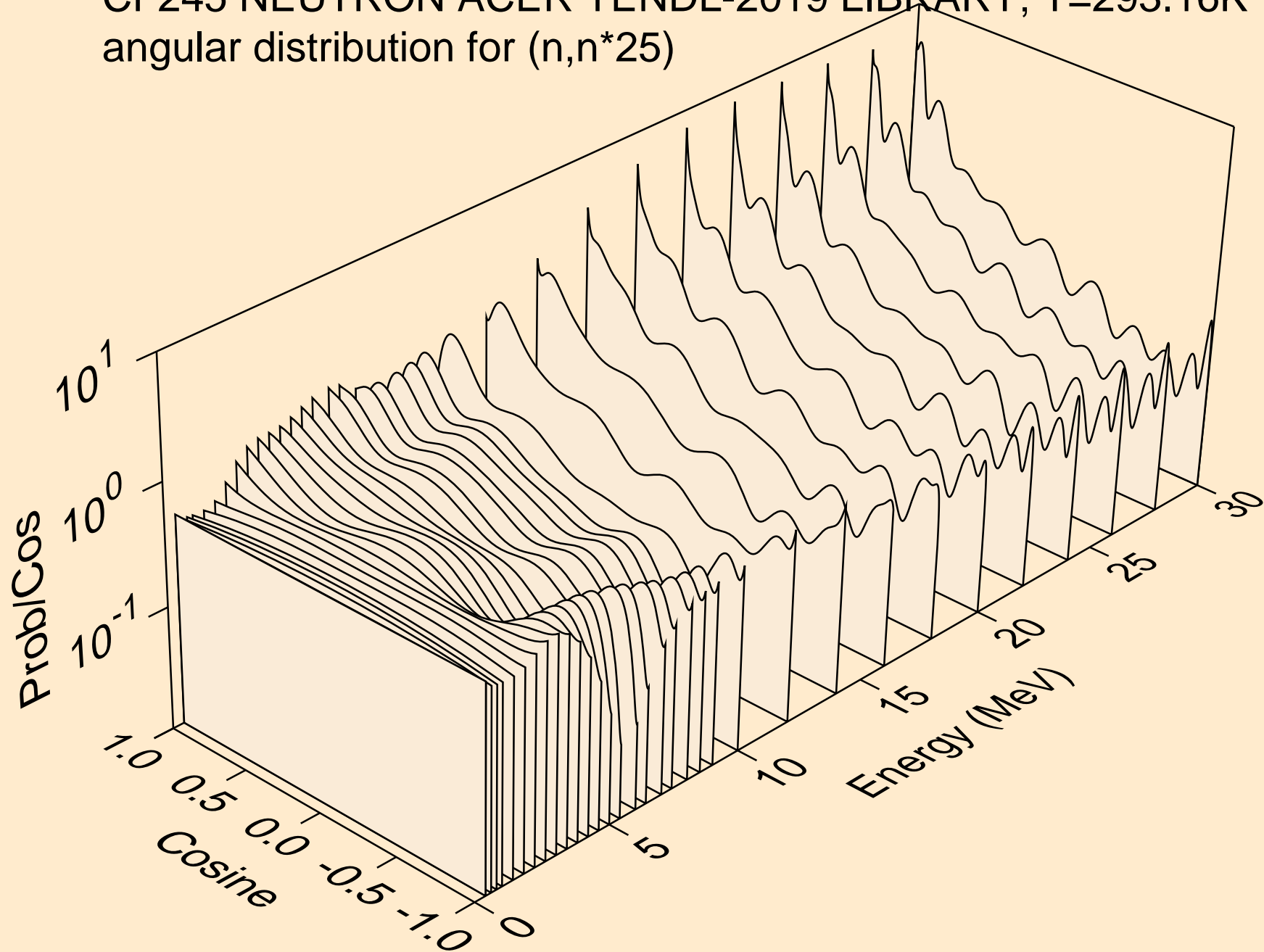


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)

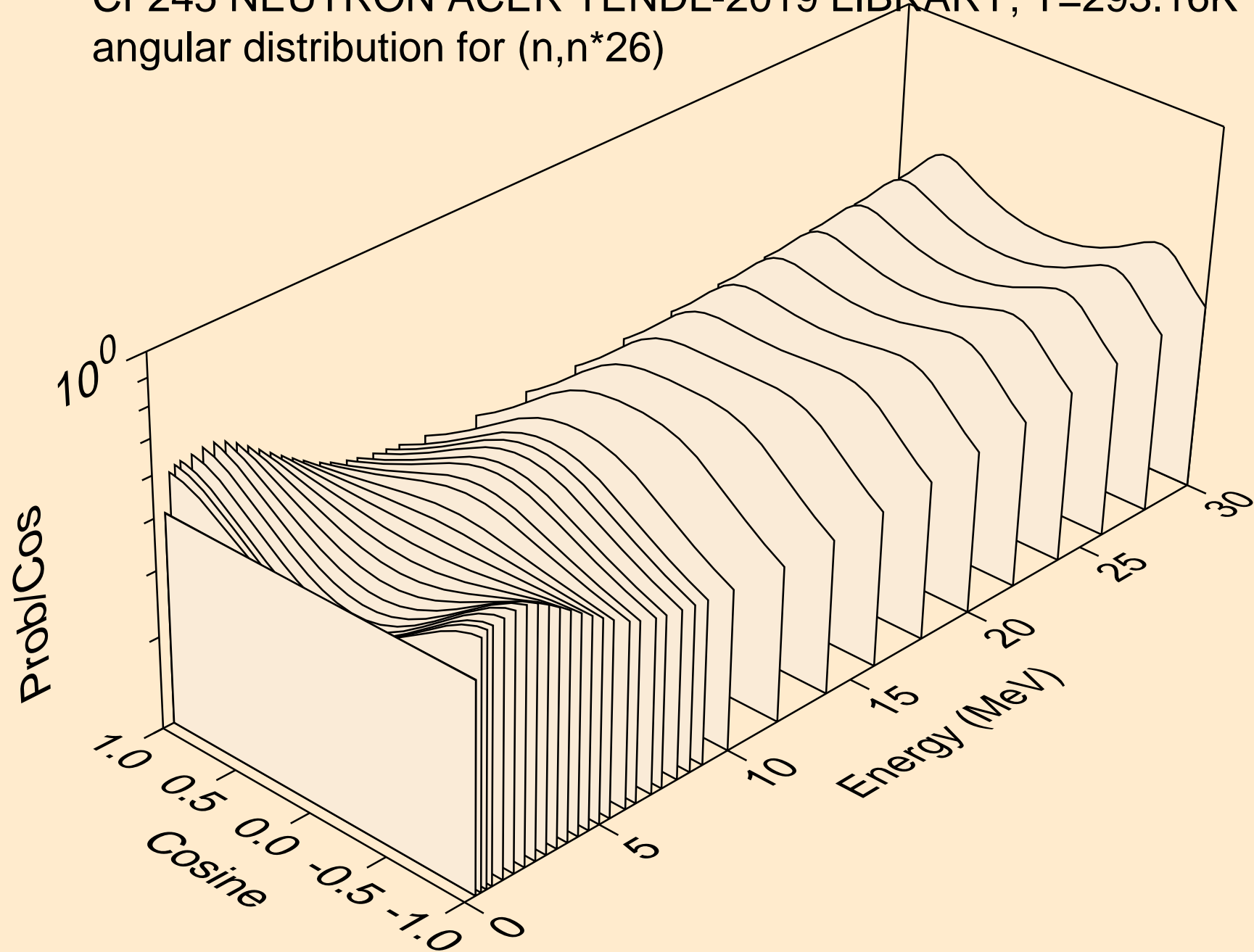




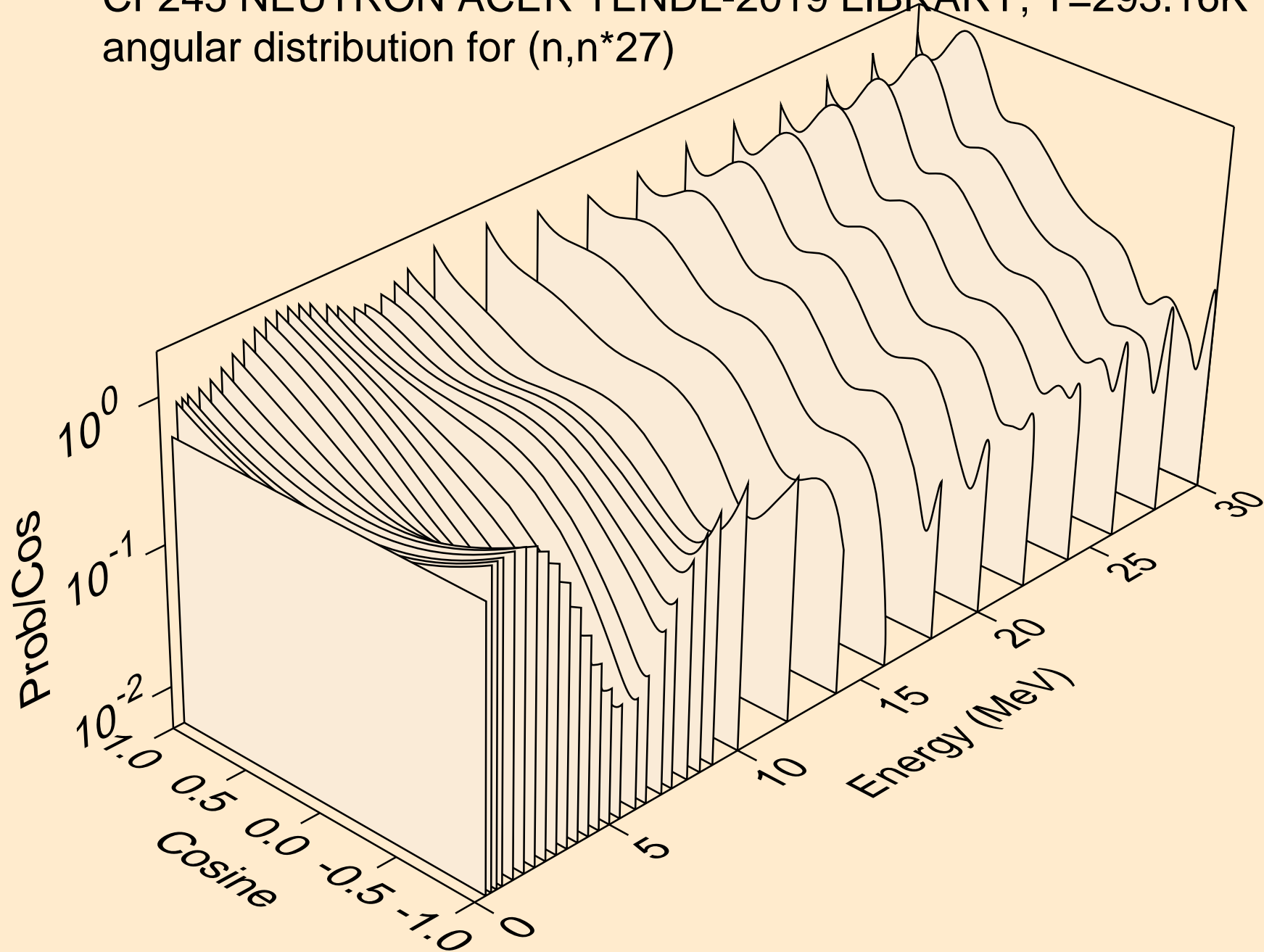
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)



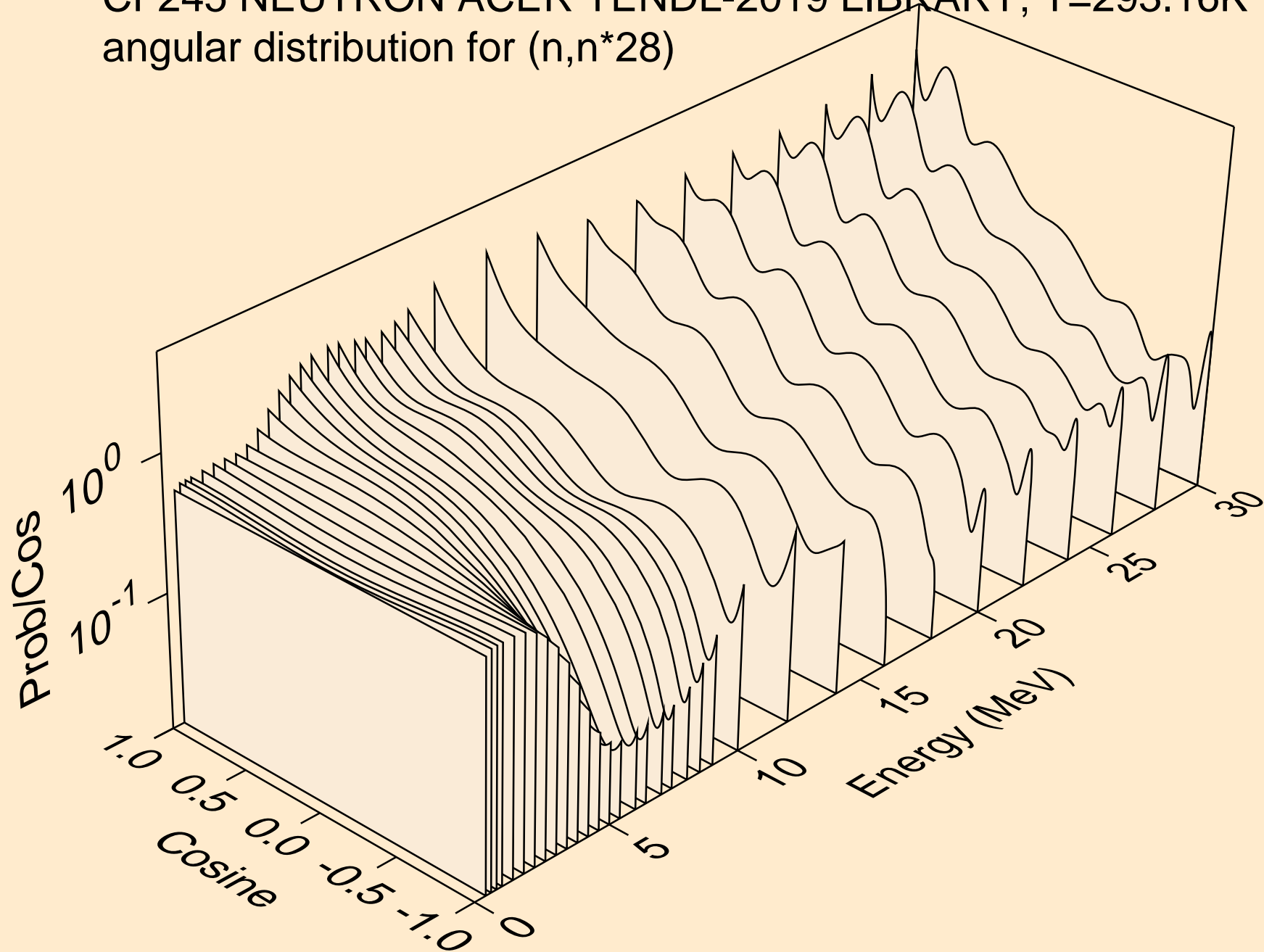
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)



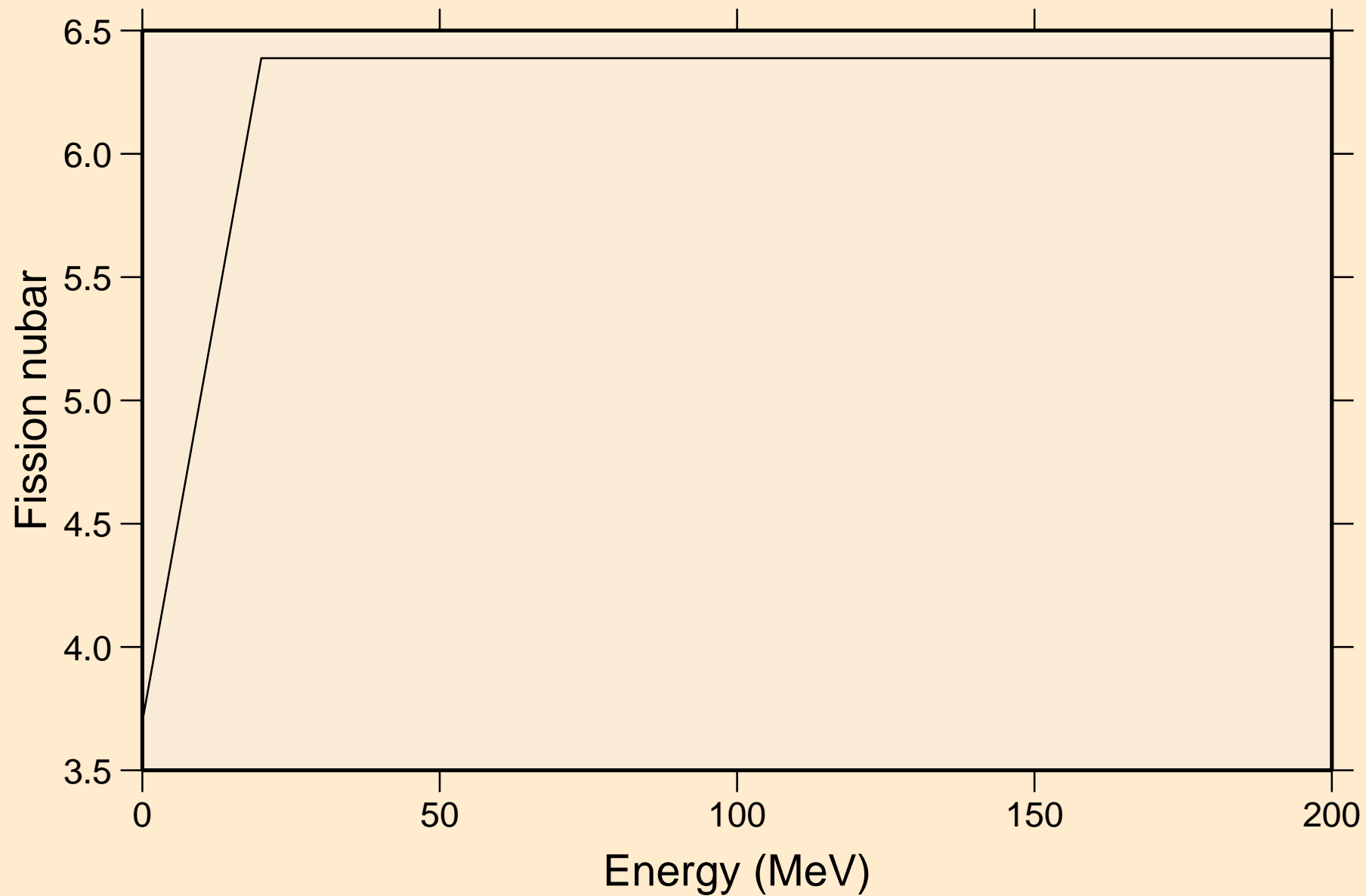
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)



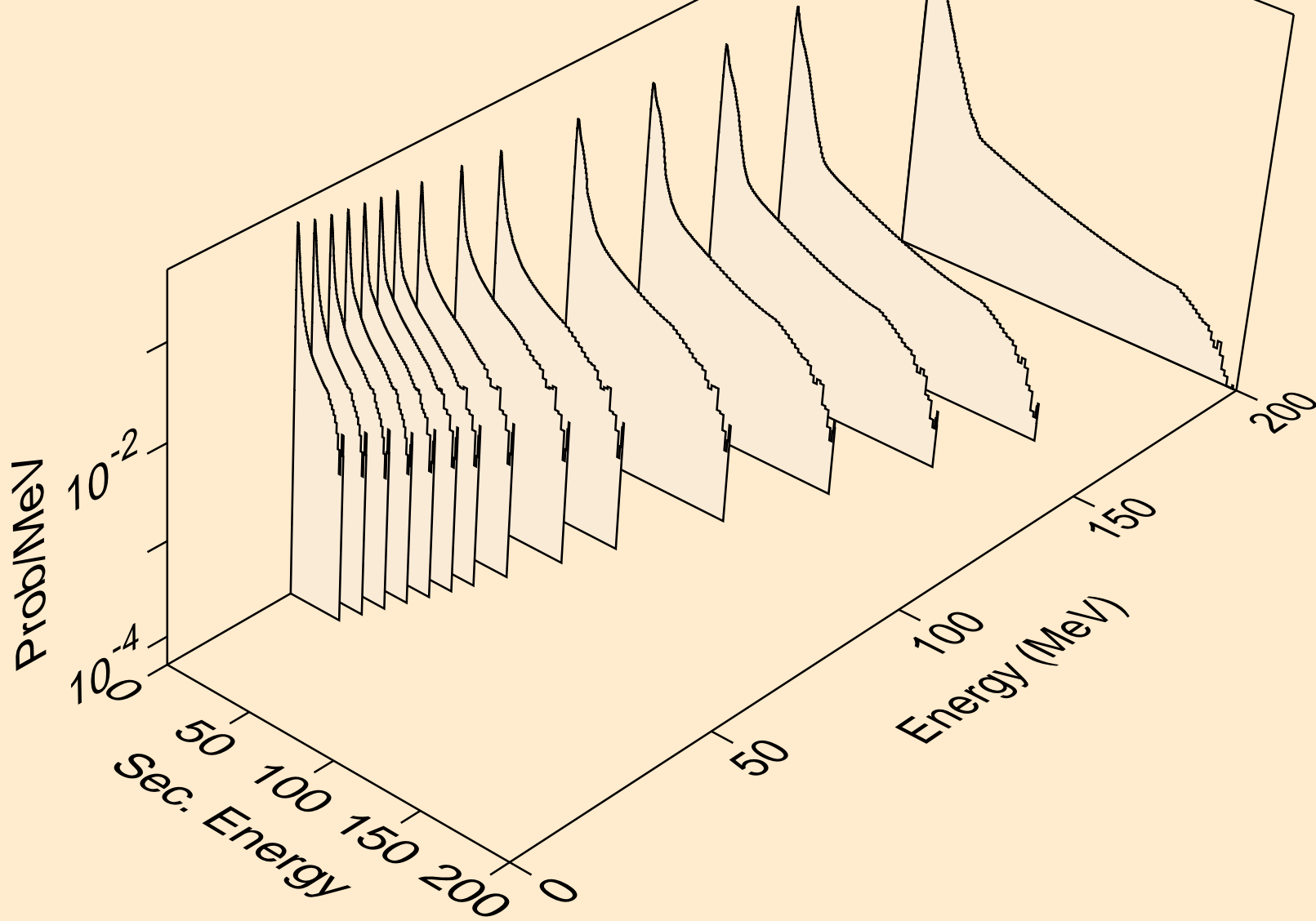
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



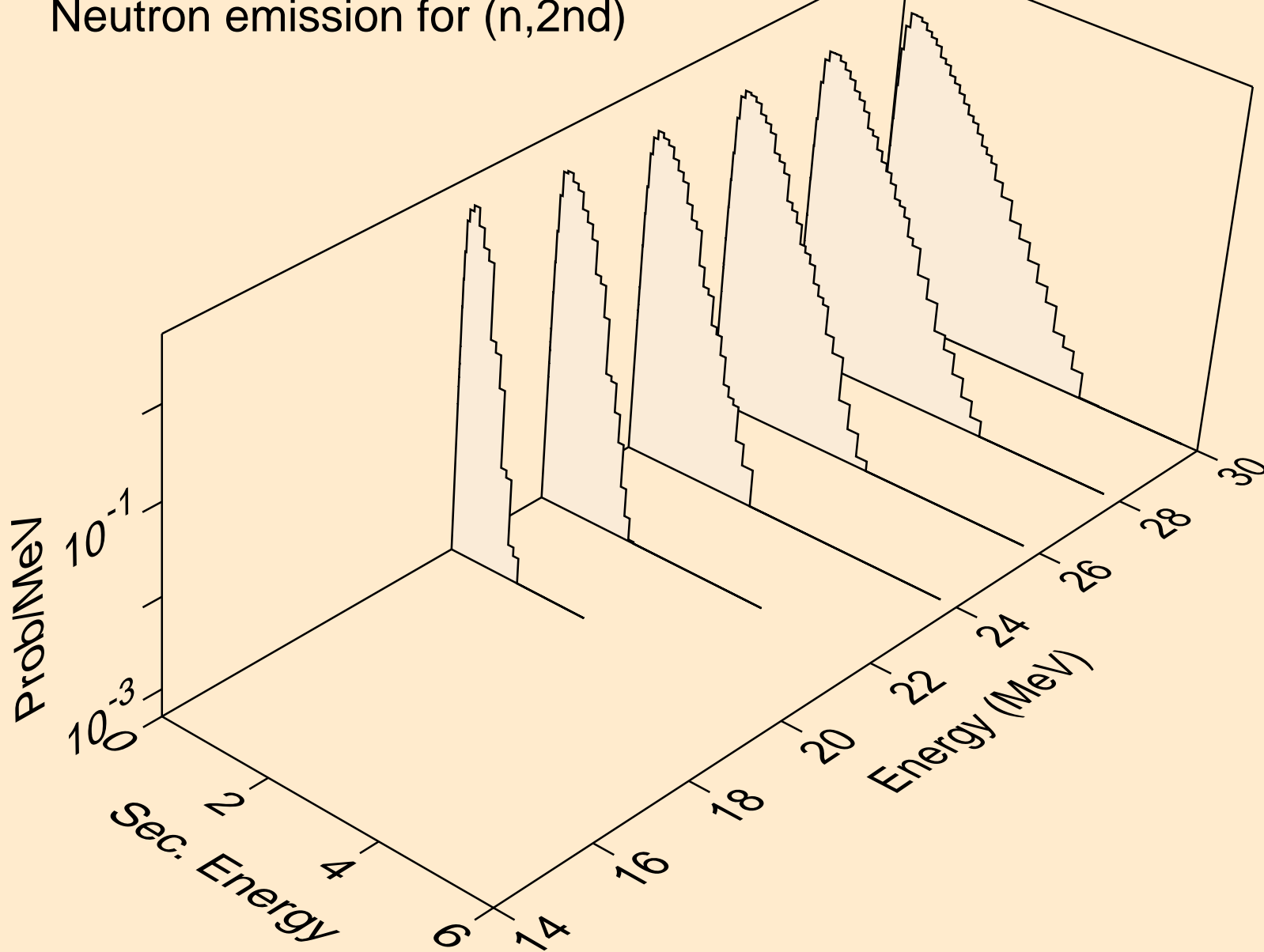
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Total fission nubar



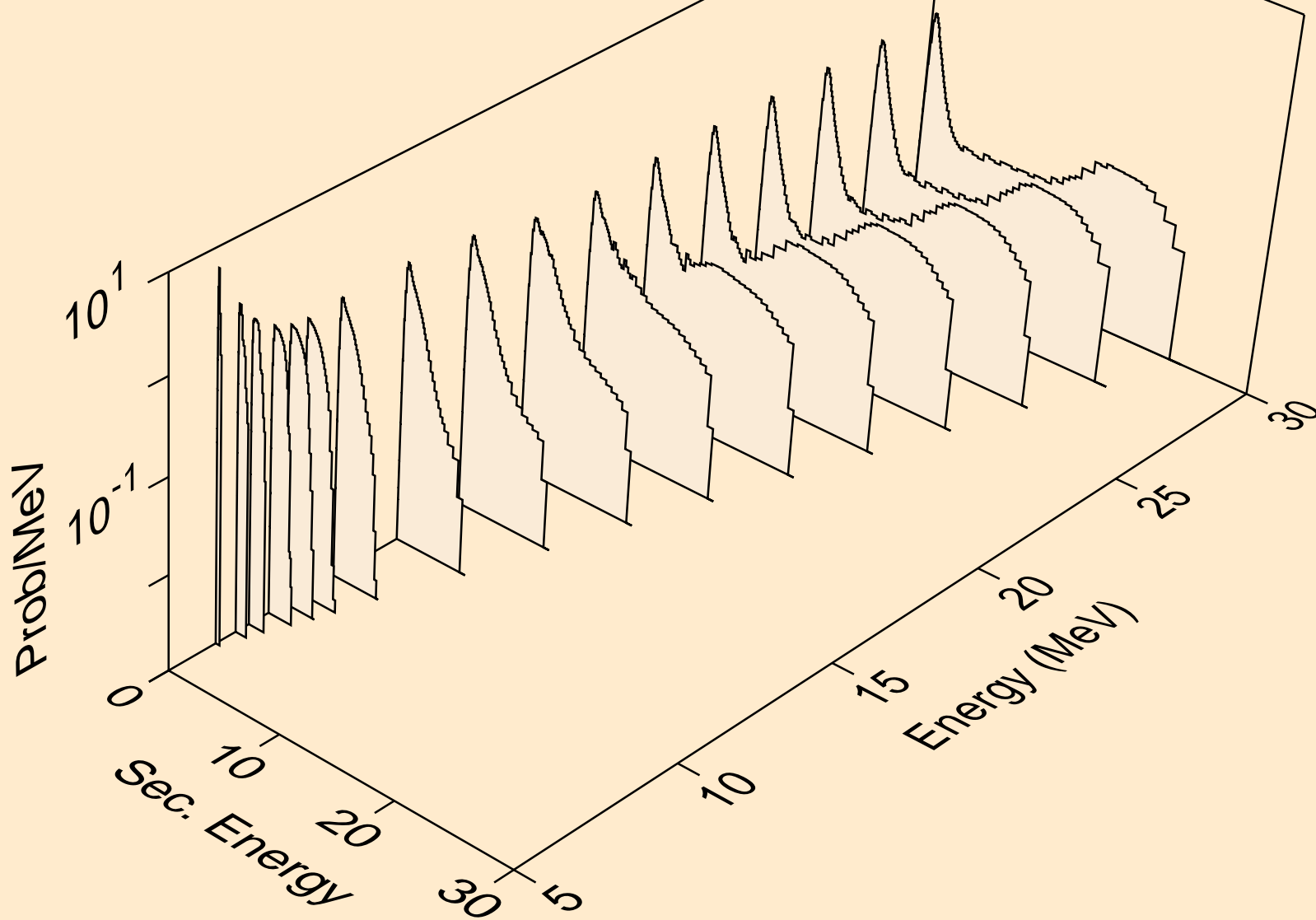
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

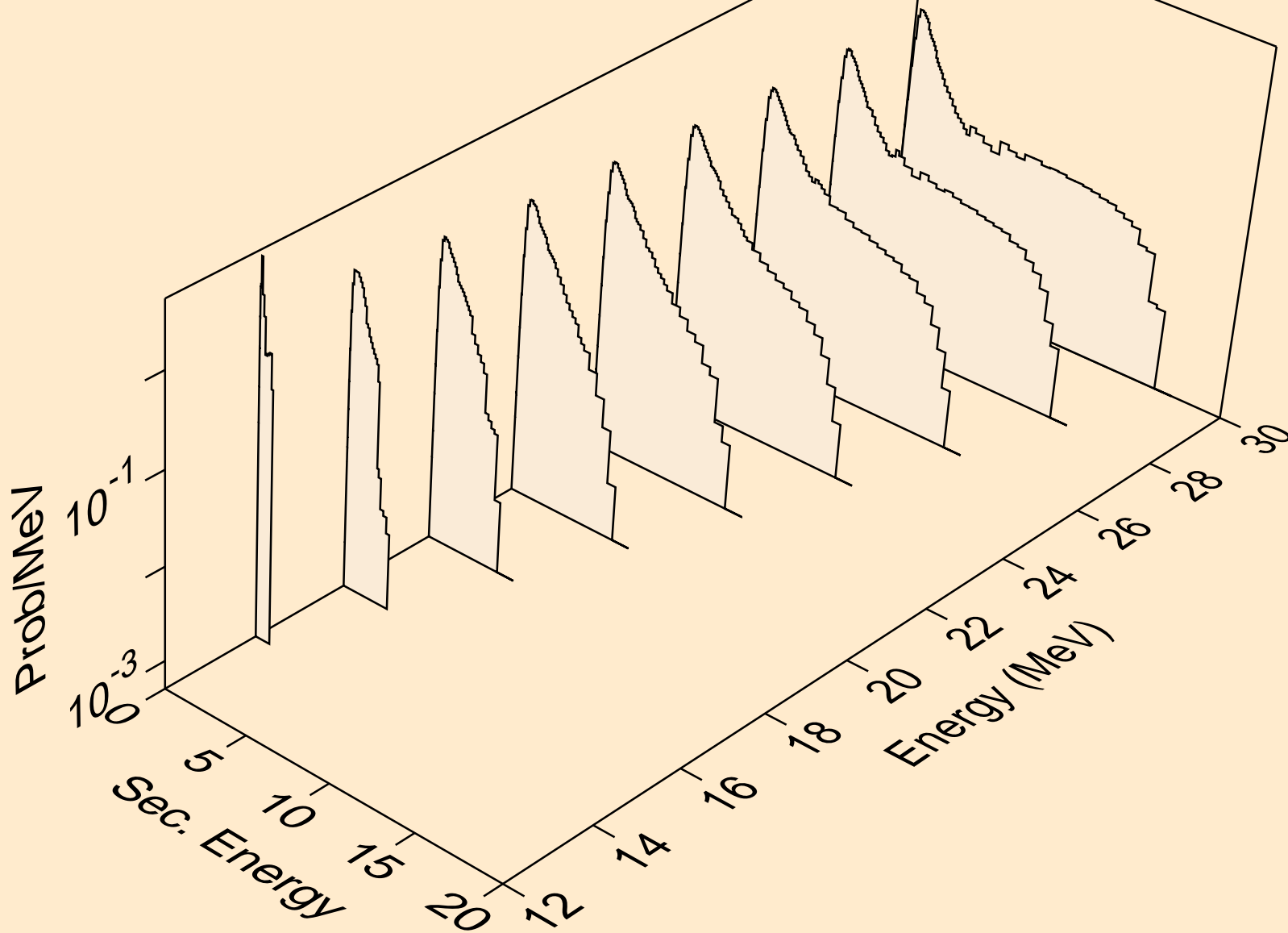


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

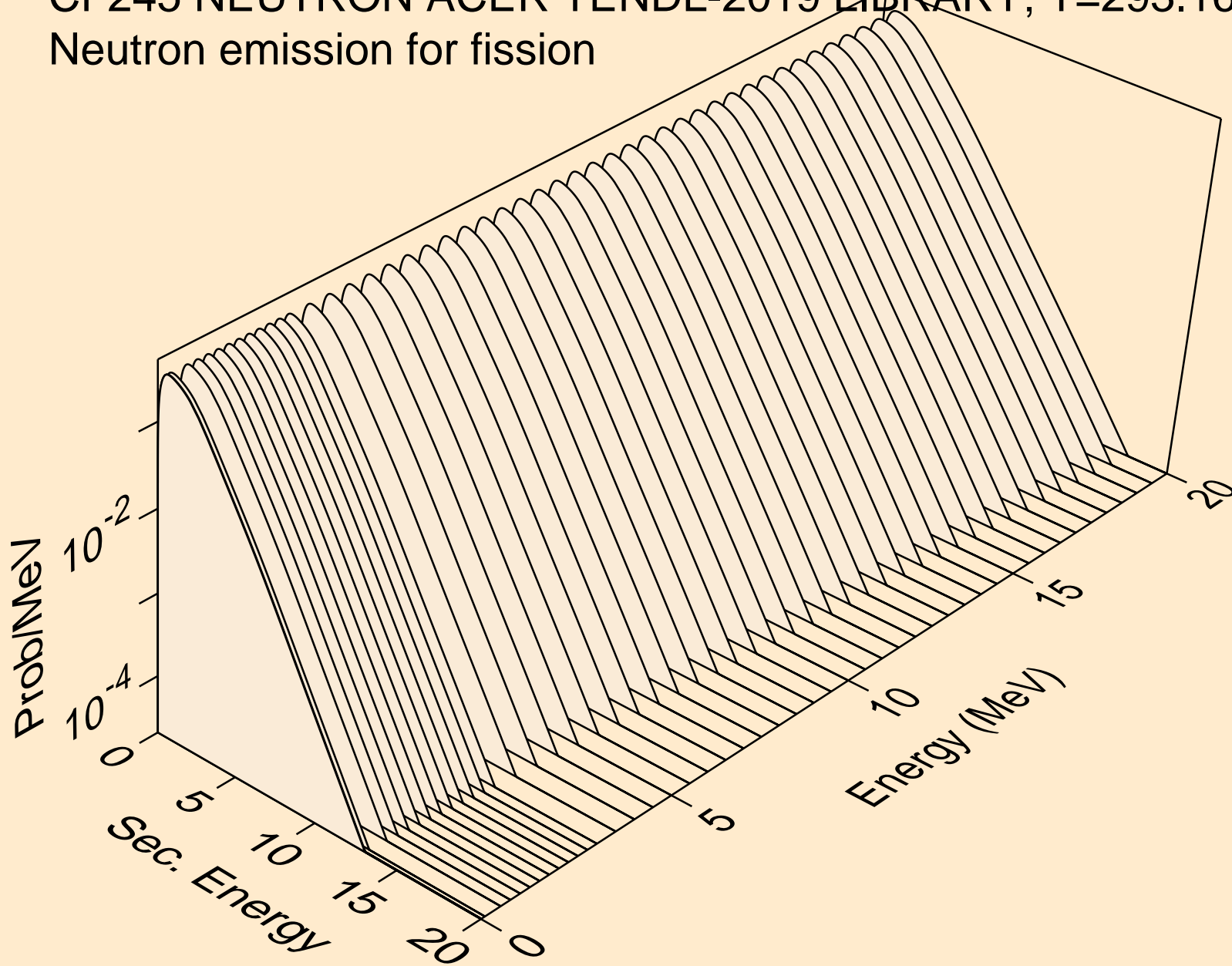




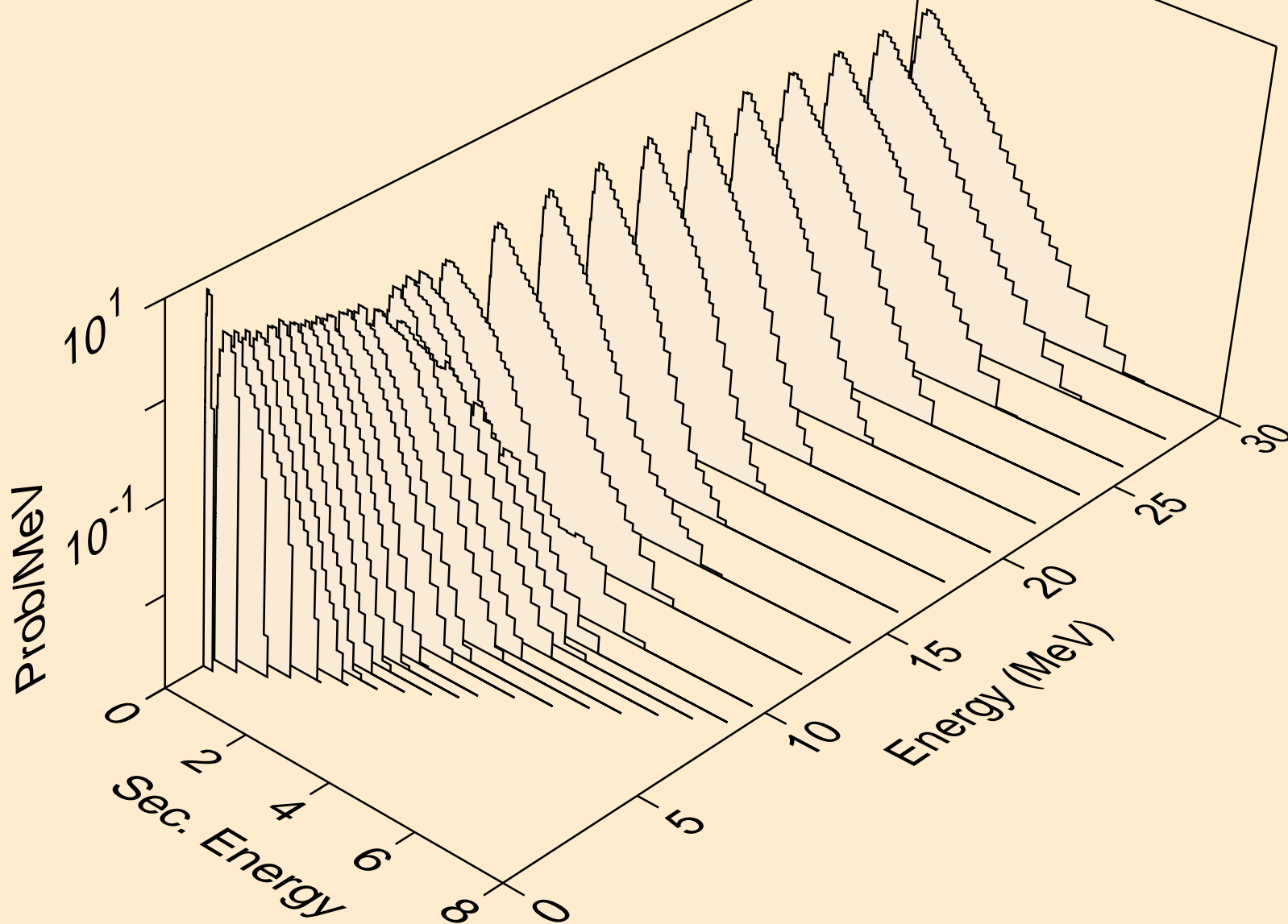
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



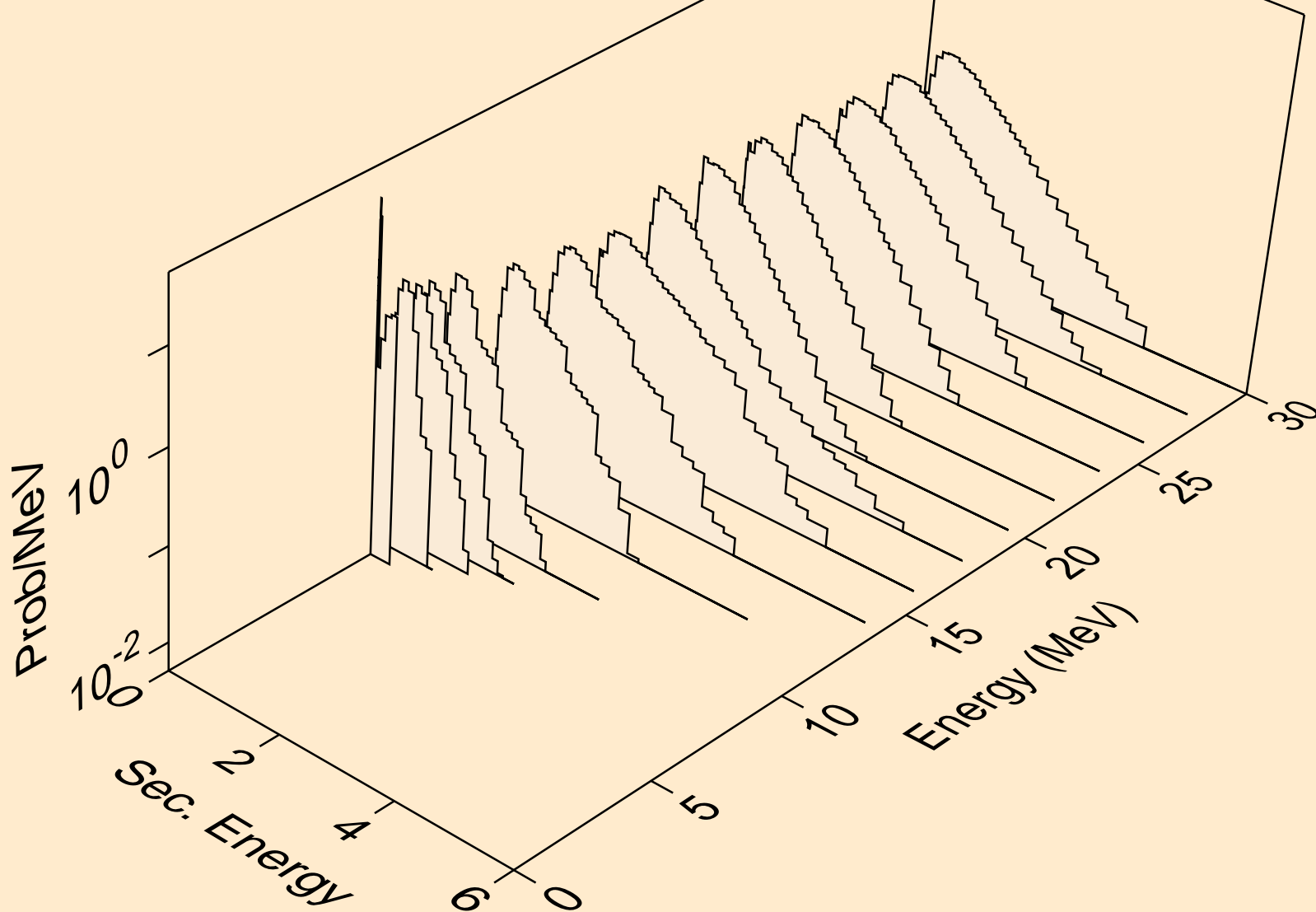
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for fission



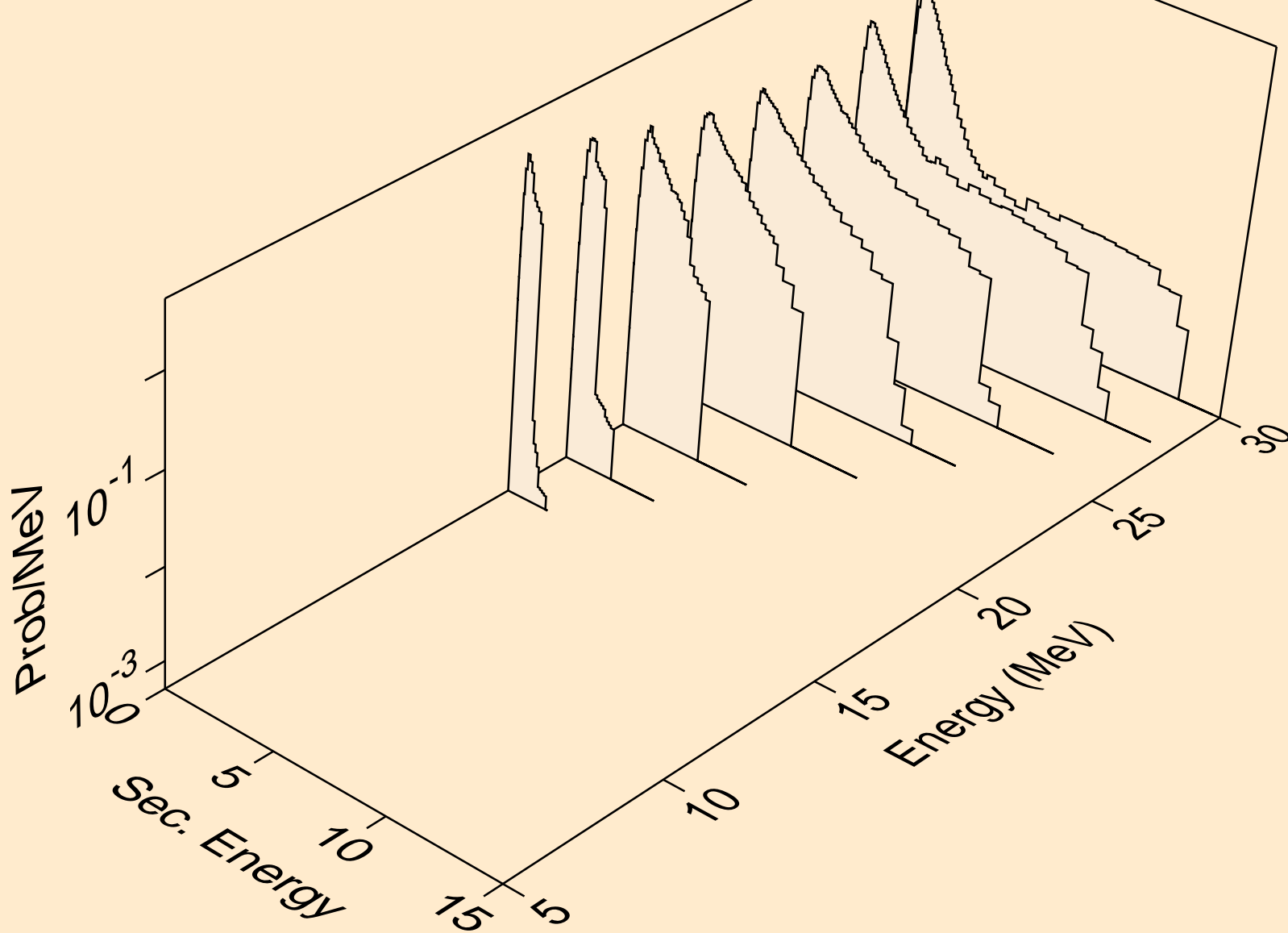
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



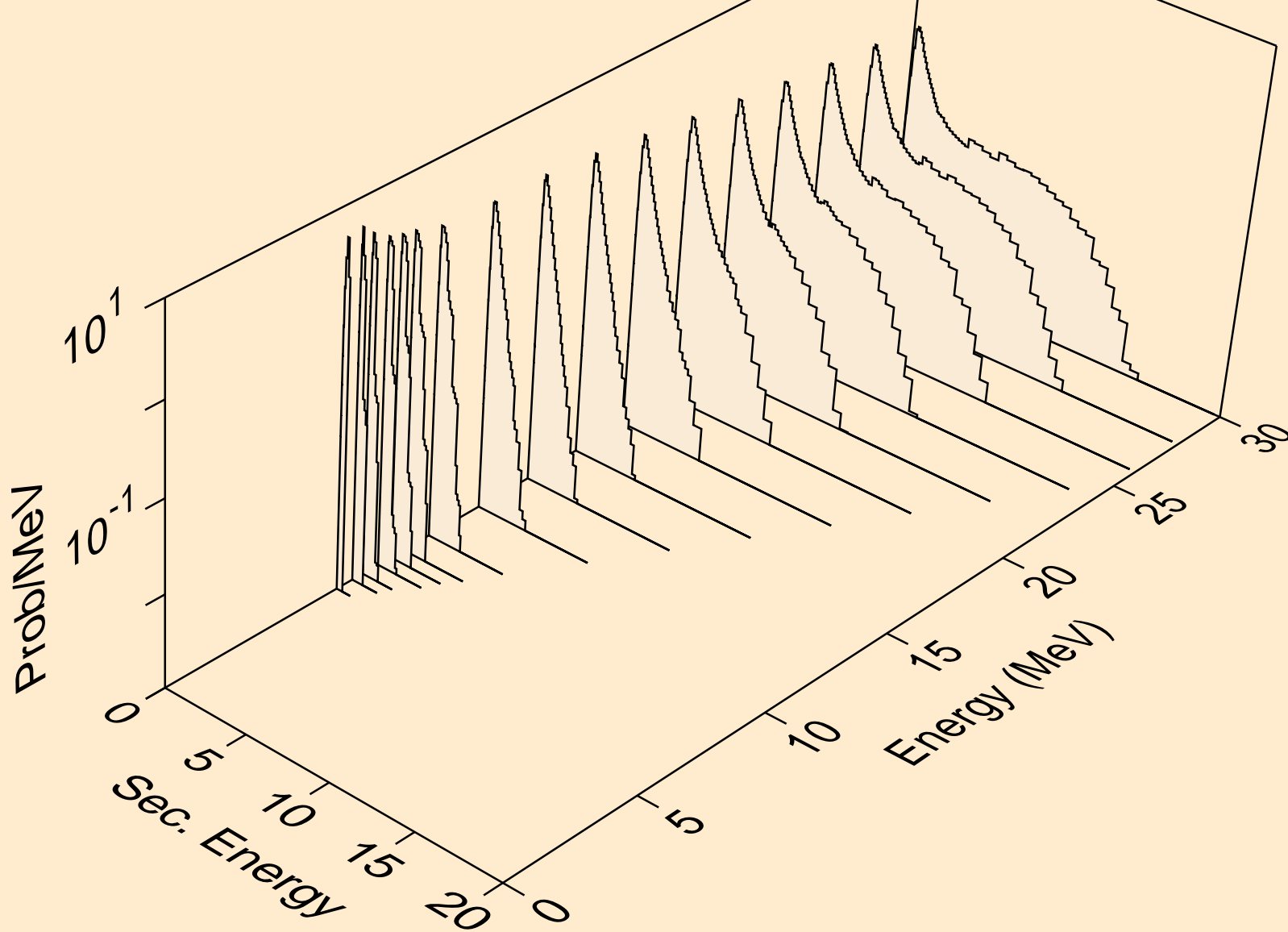
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



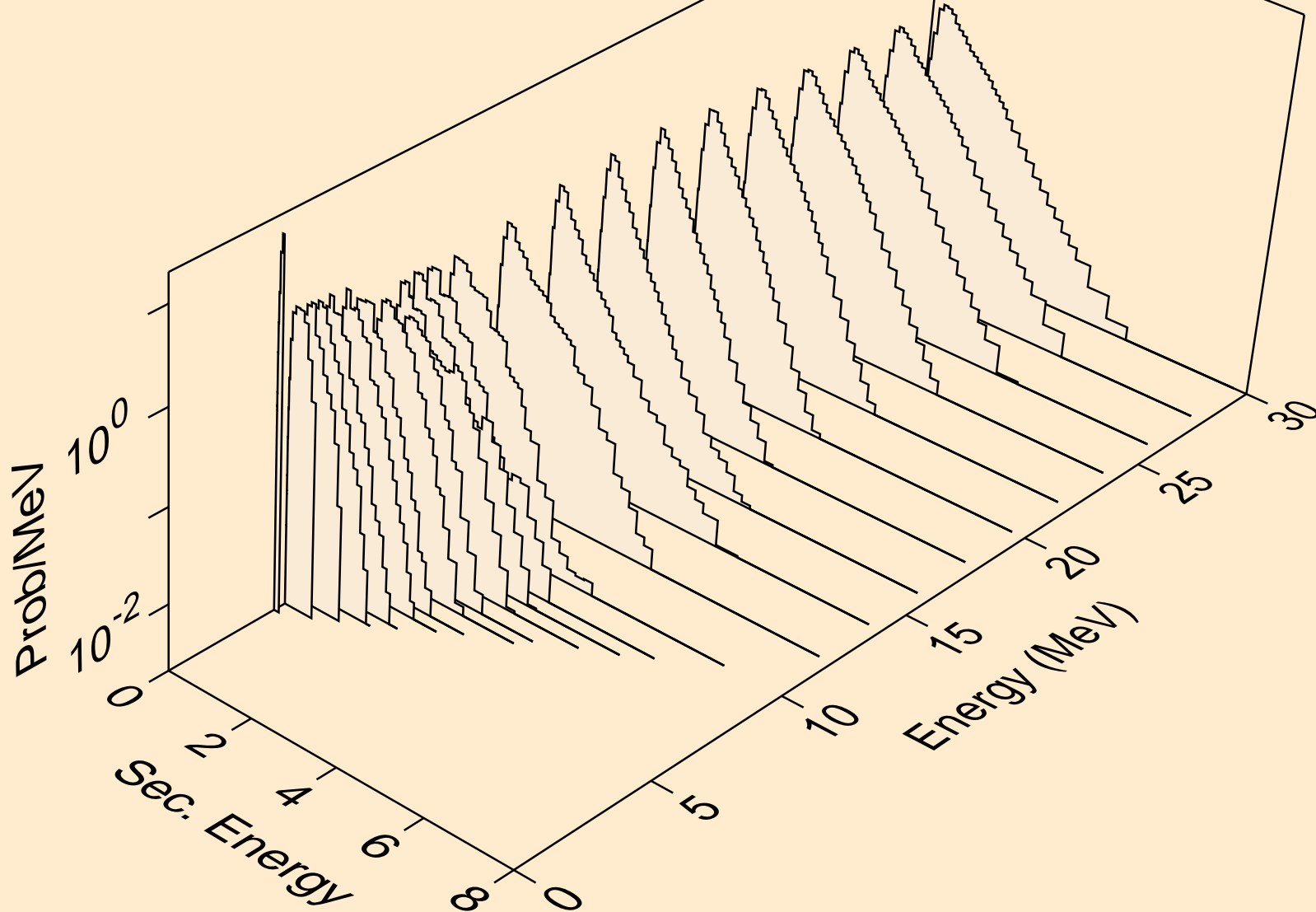
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



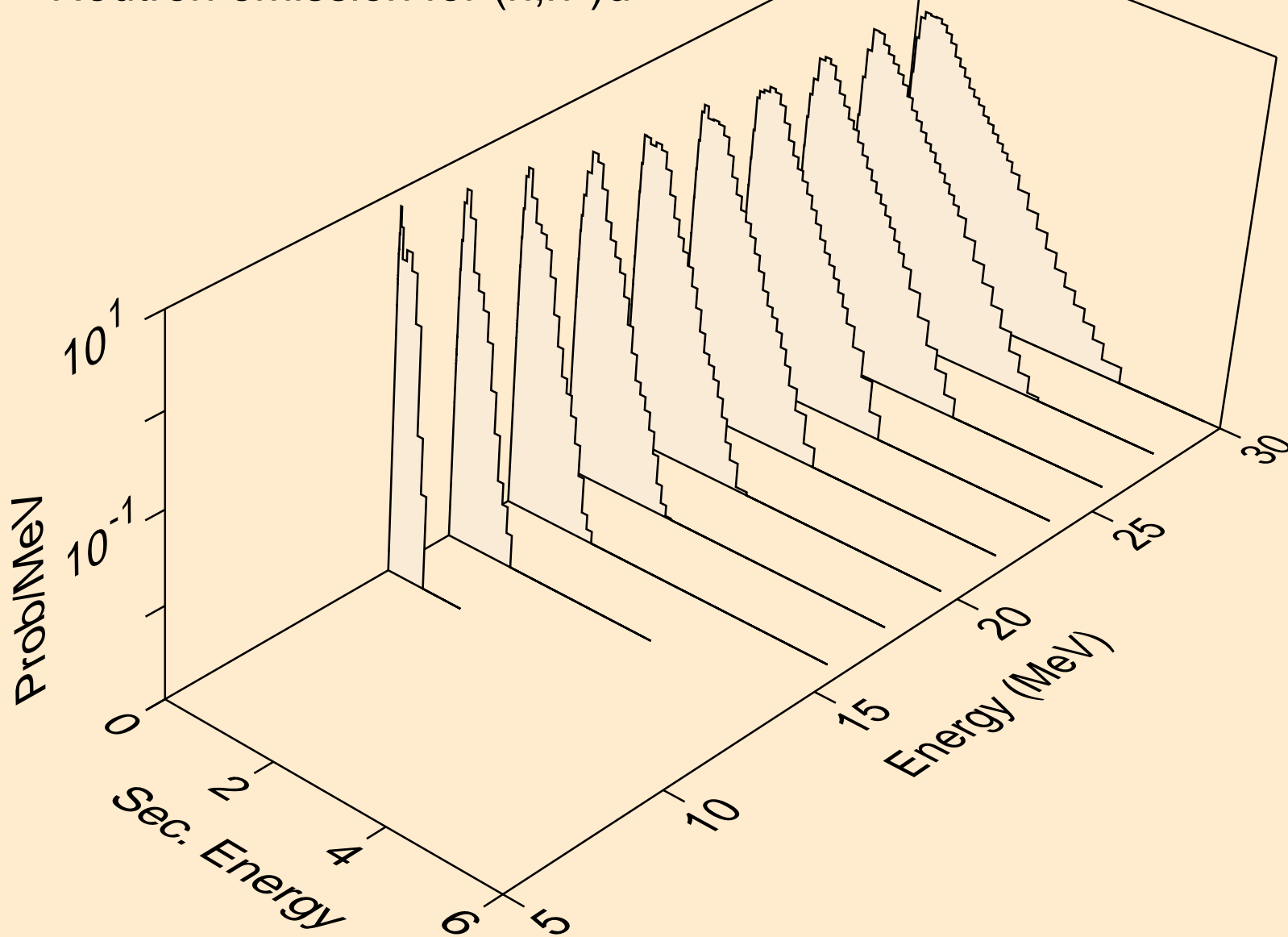
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a

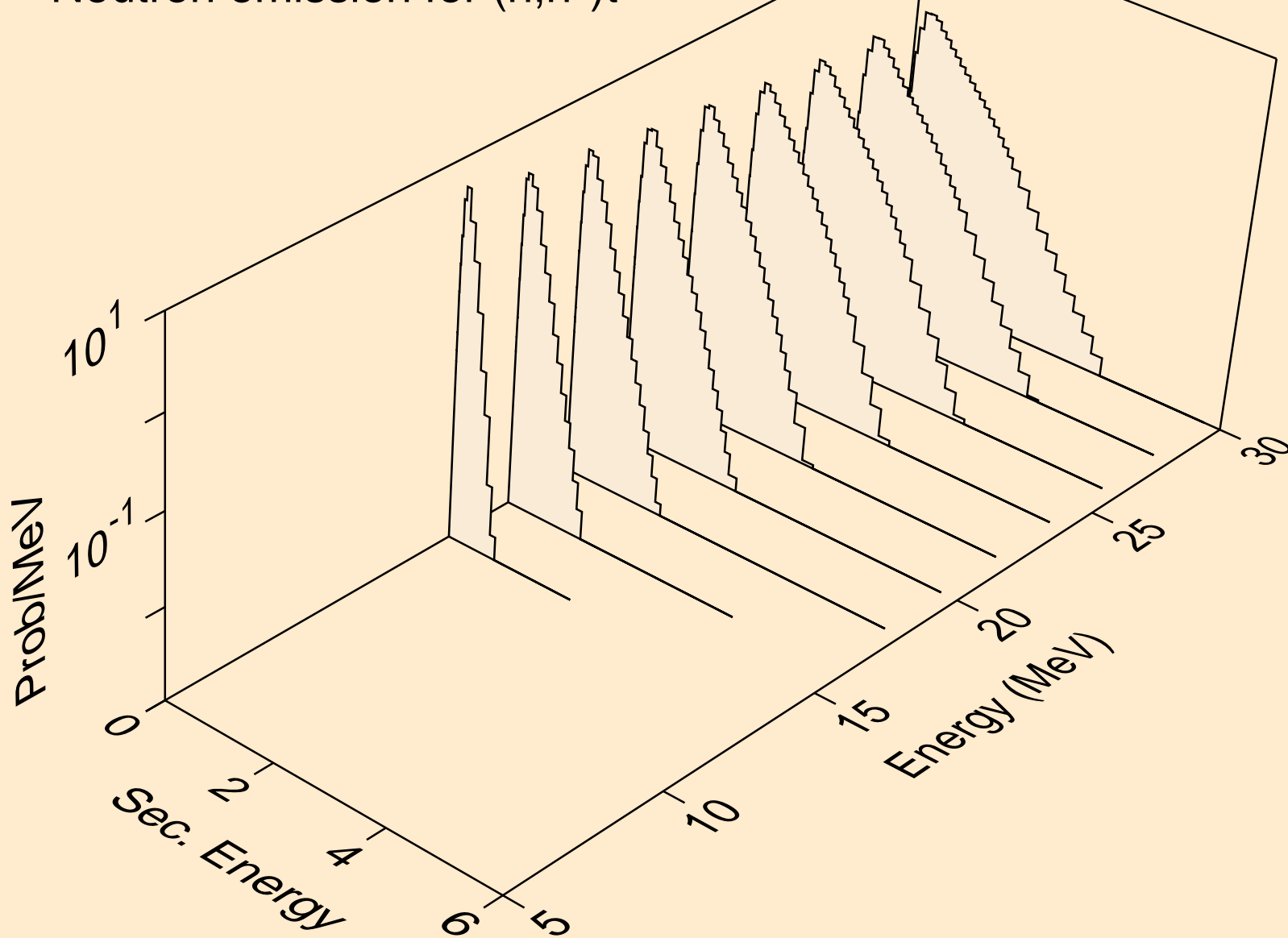


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d

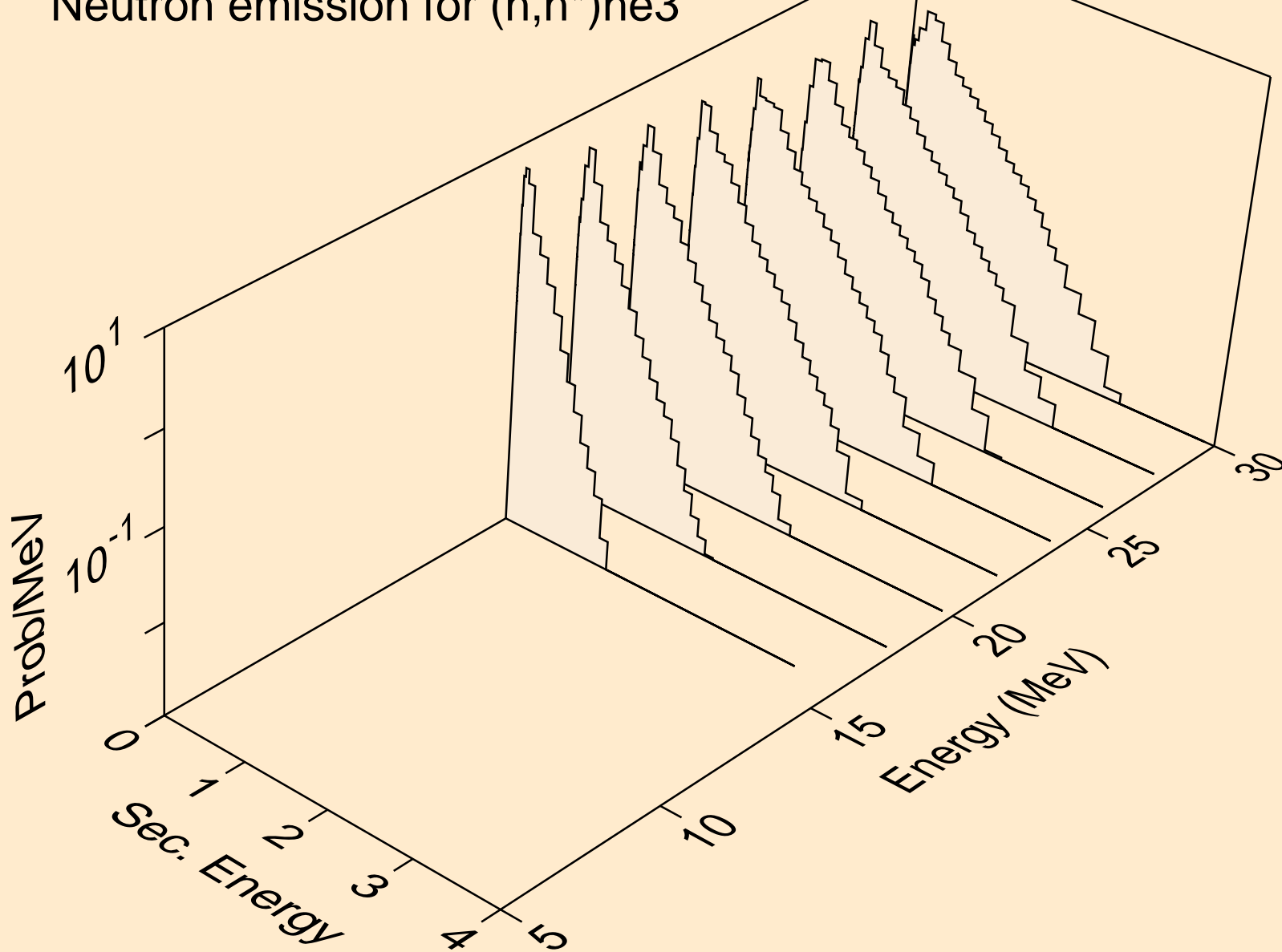




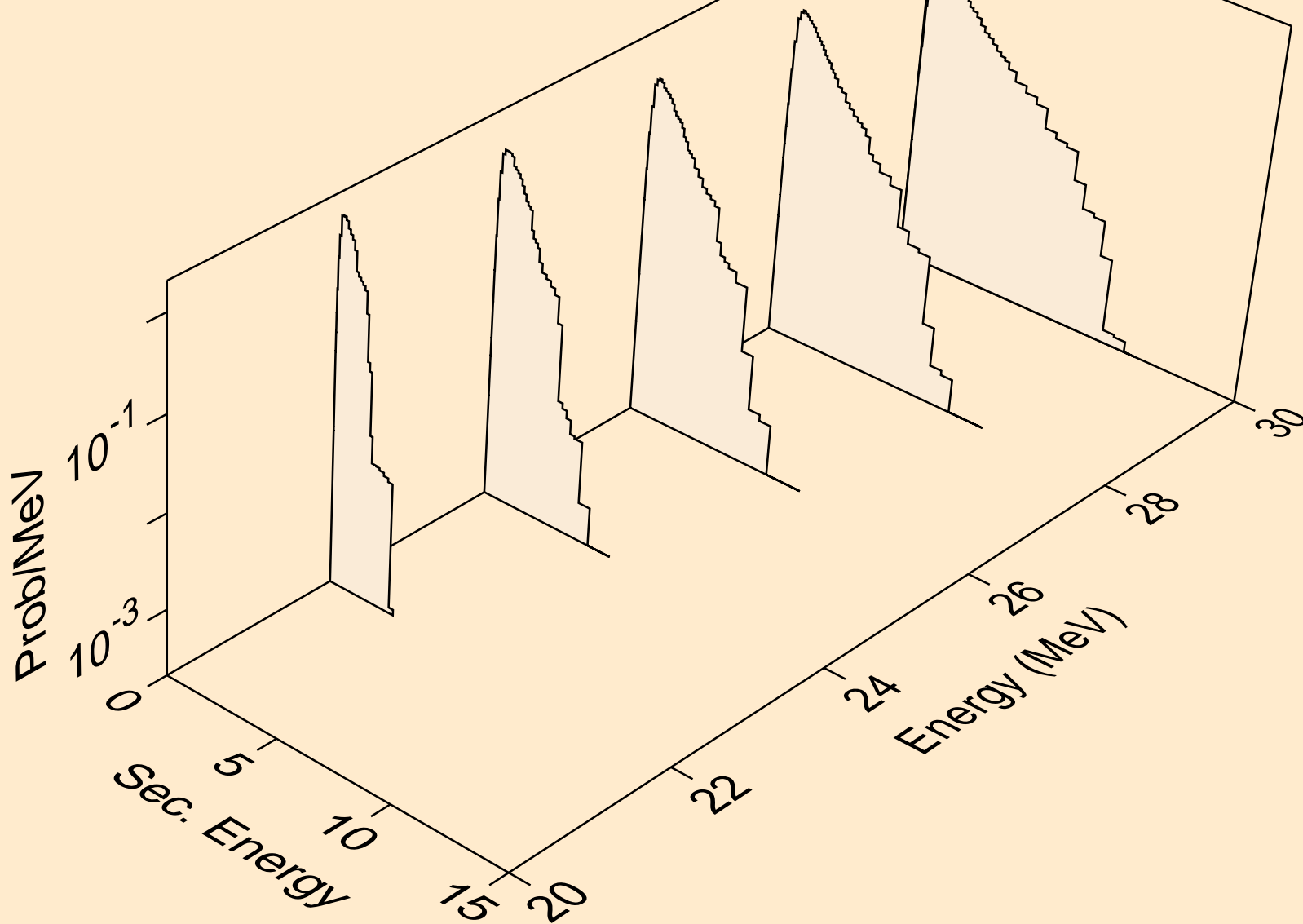
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



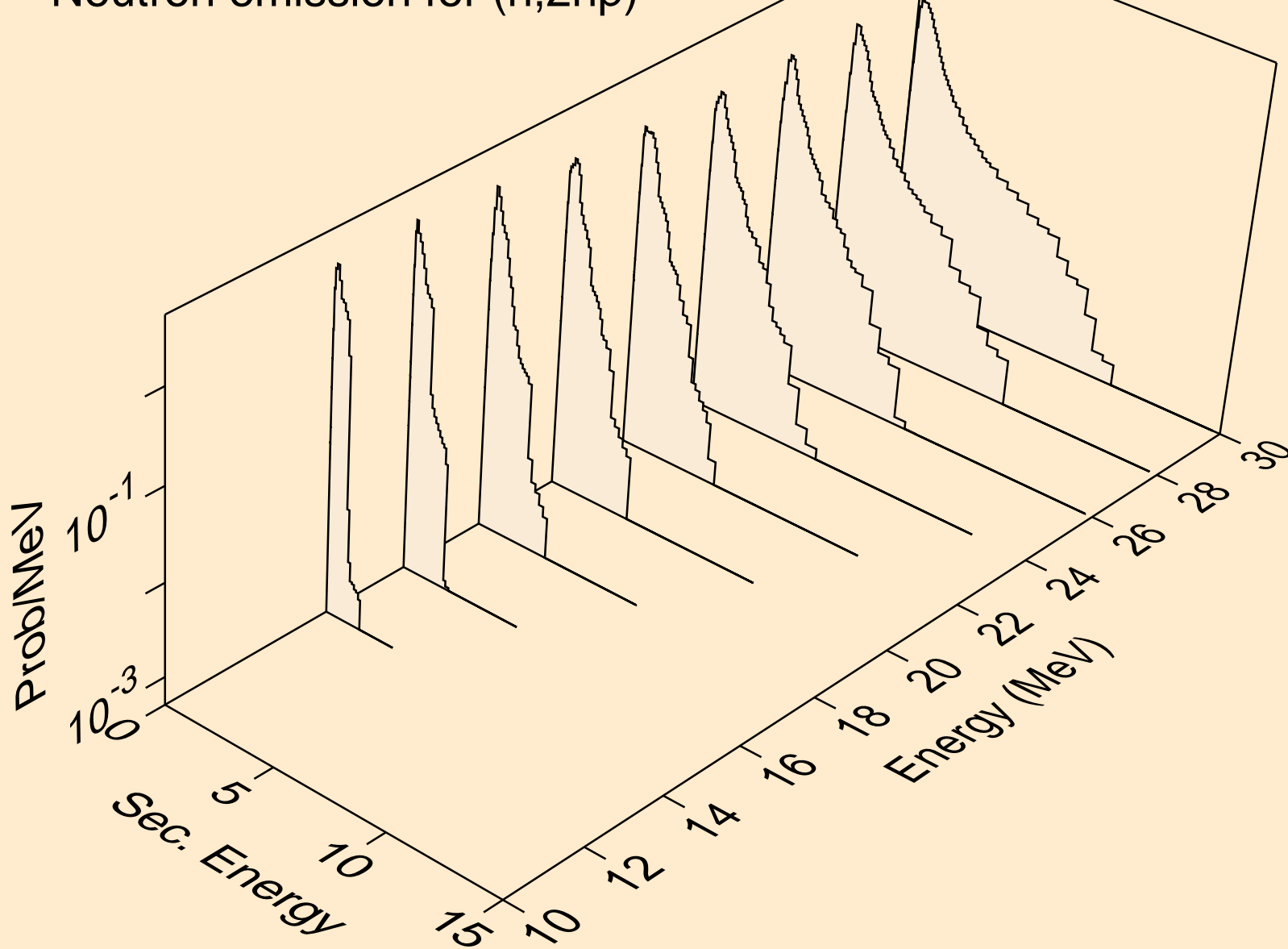
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



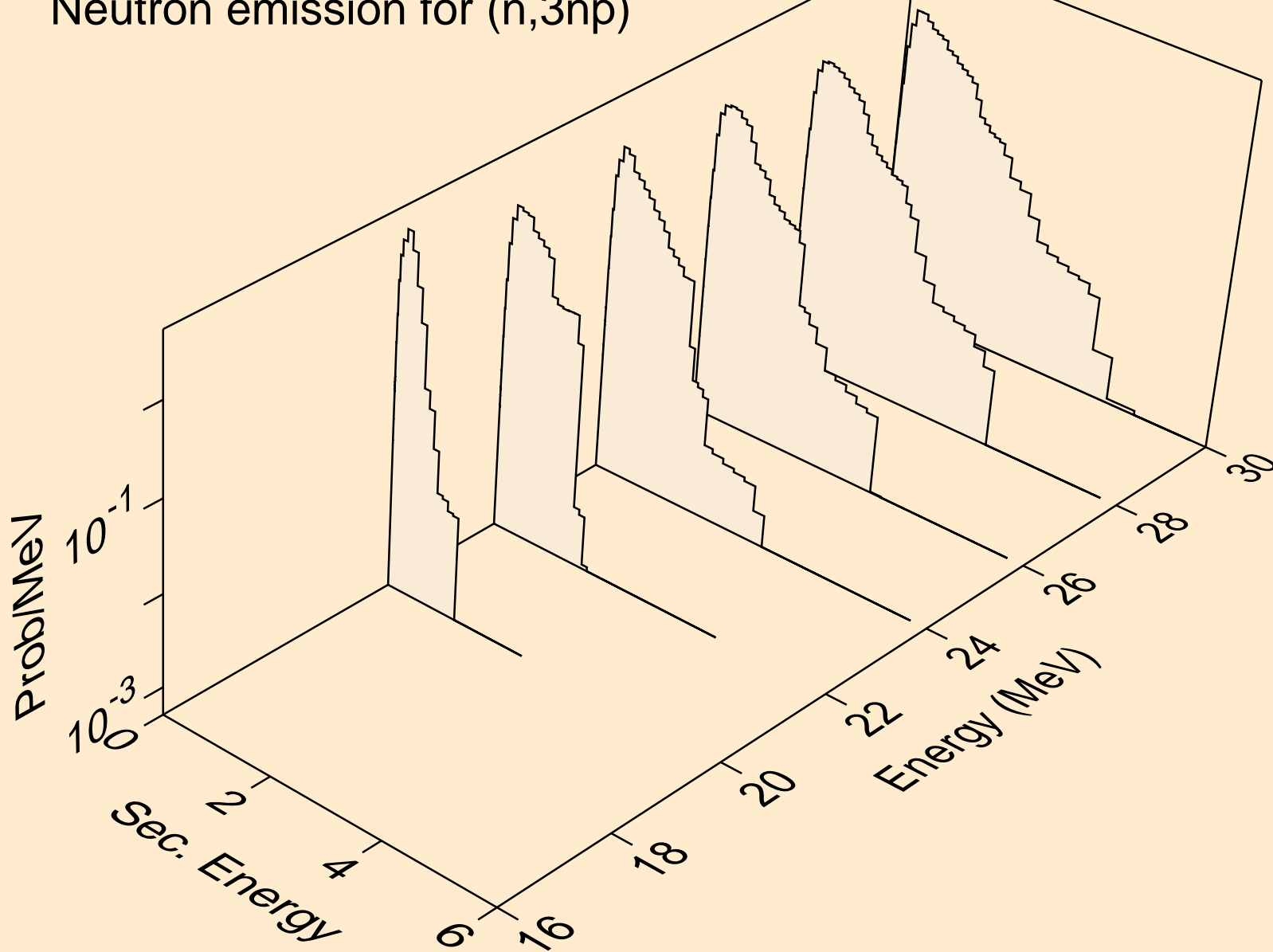
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



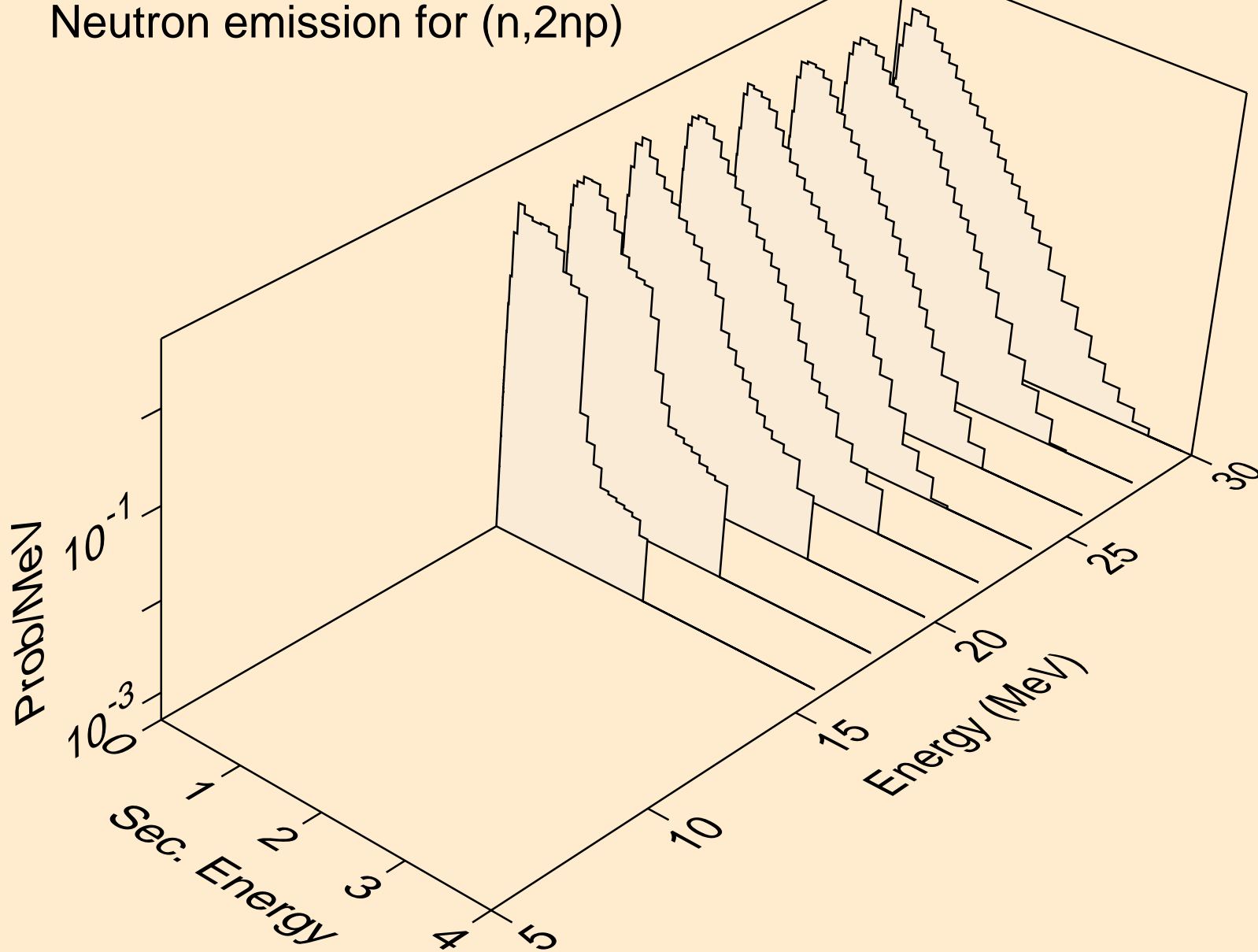
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



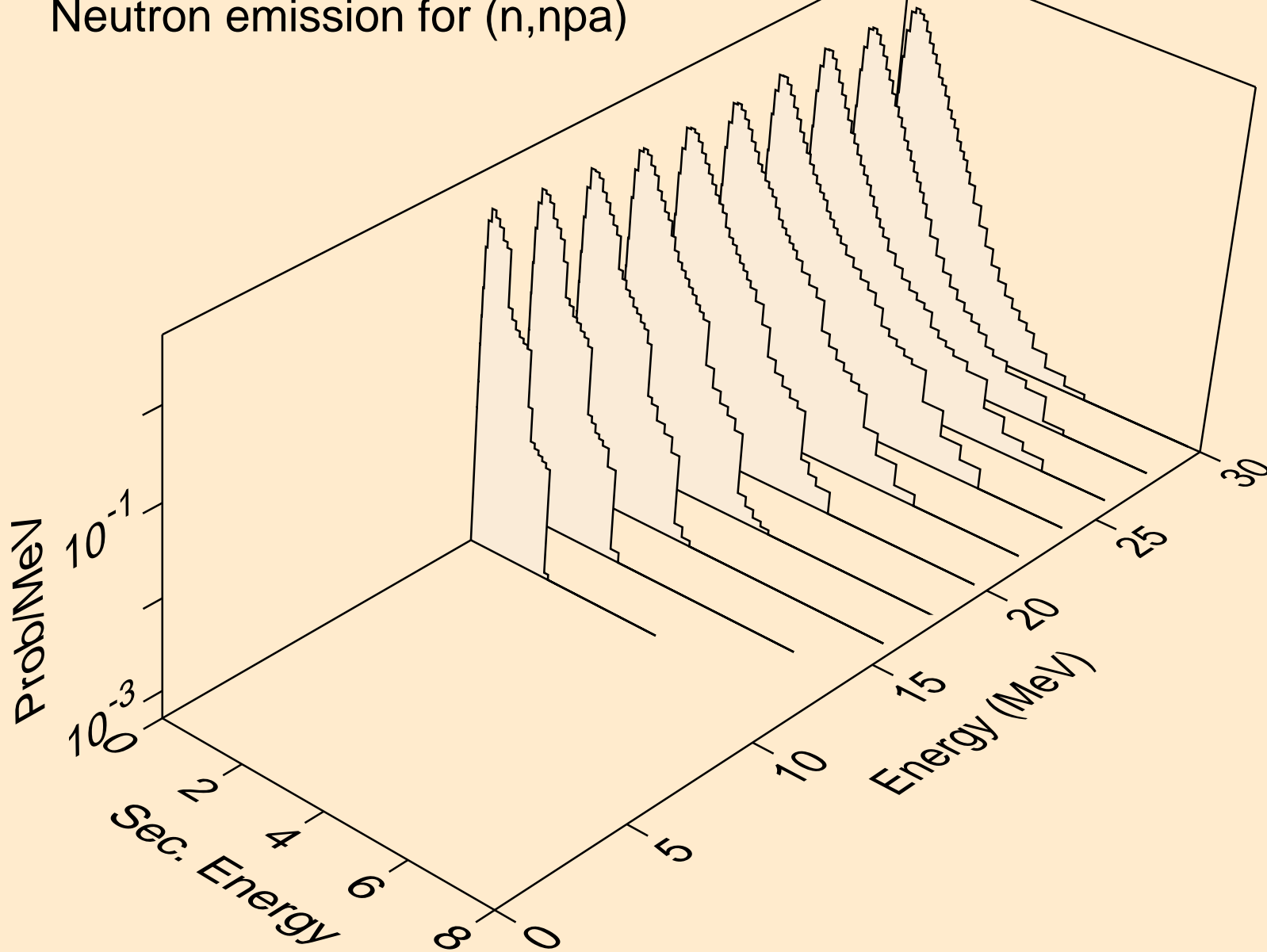
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



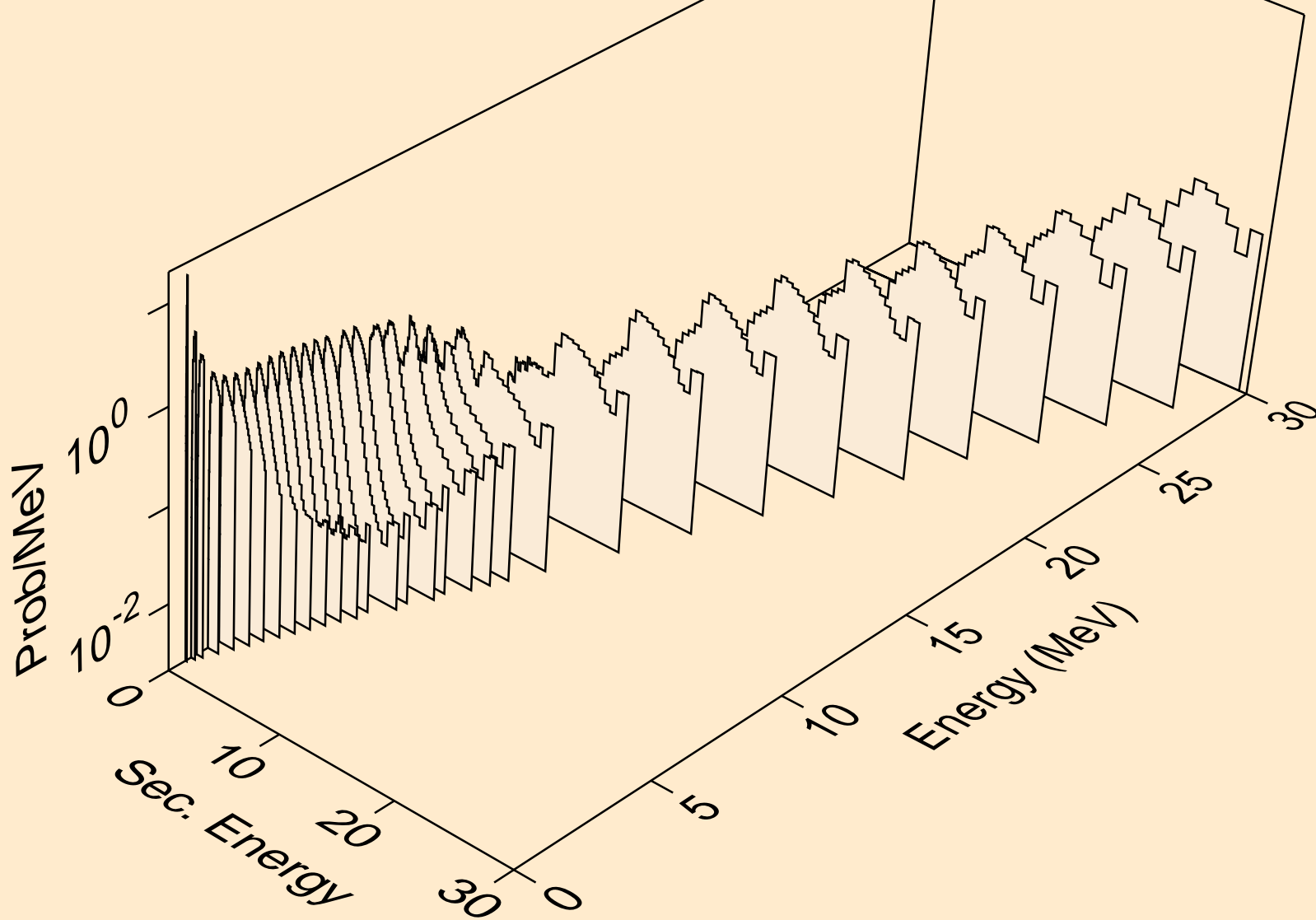
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)

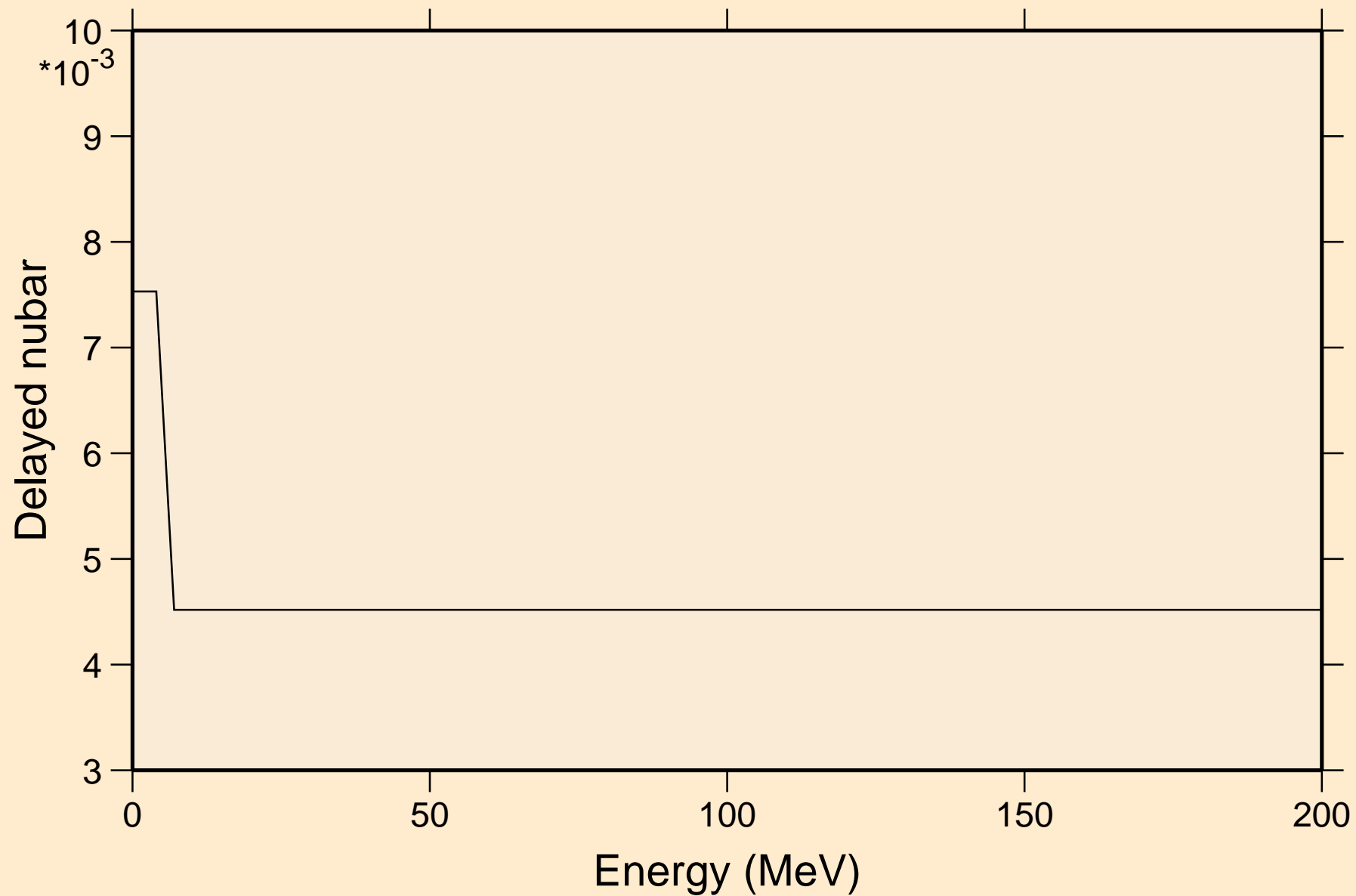


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



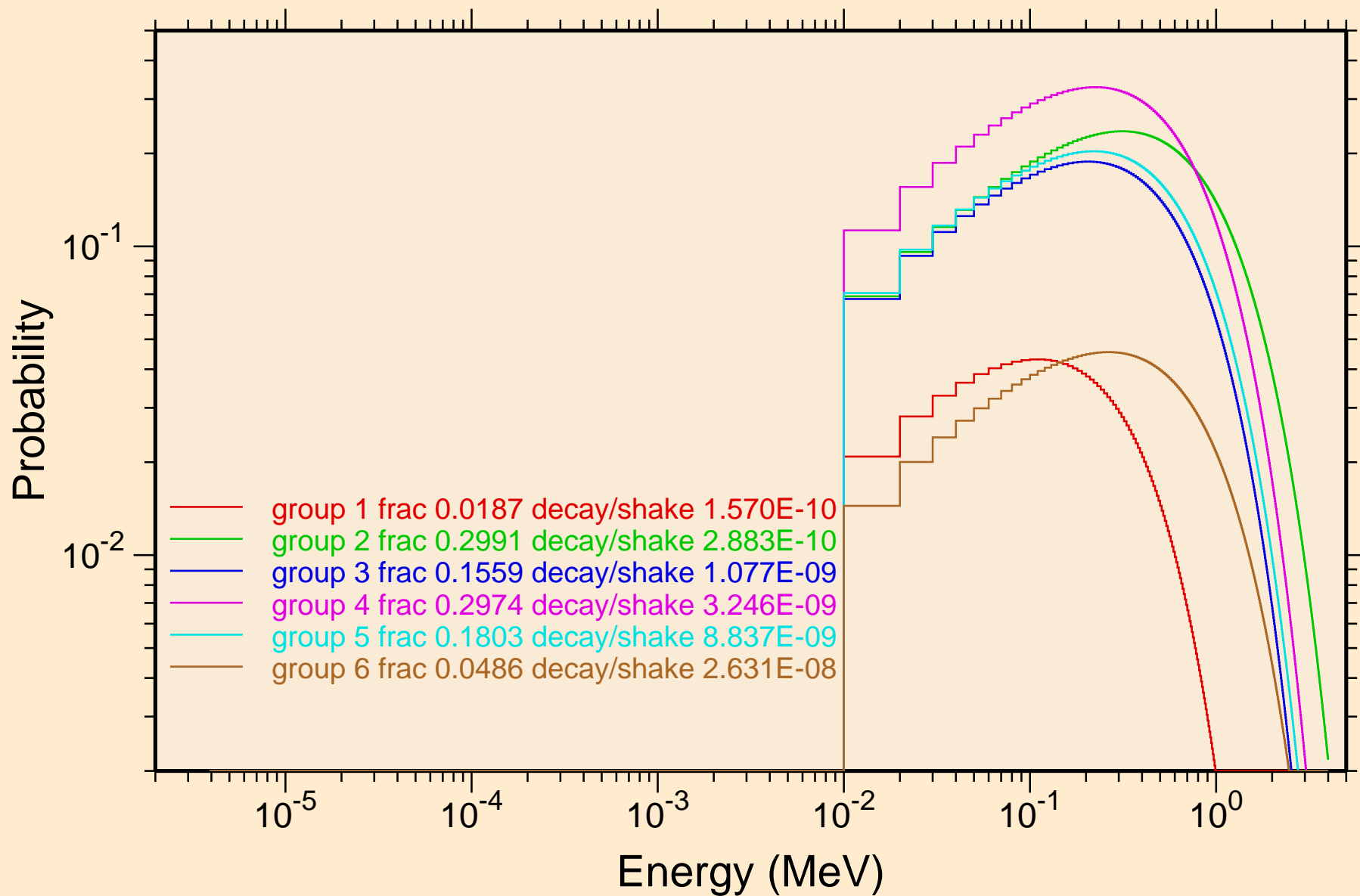


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Delayed nubar

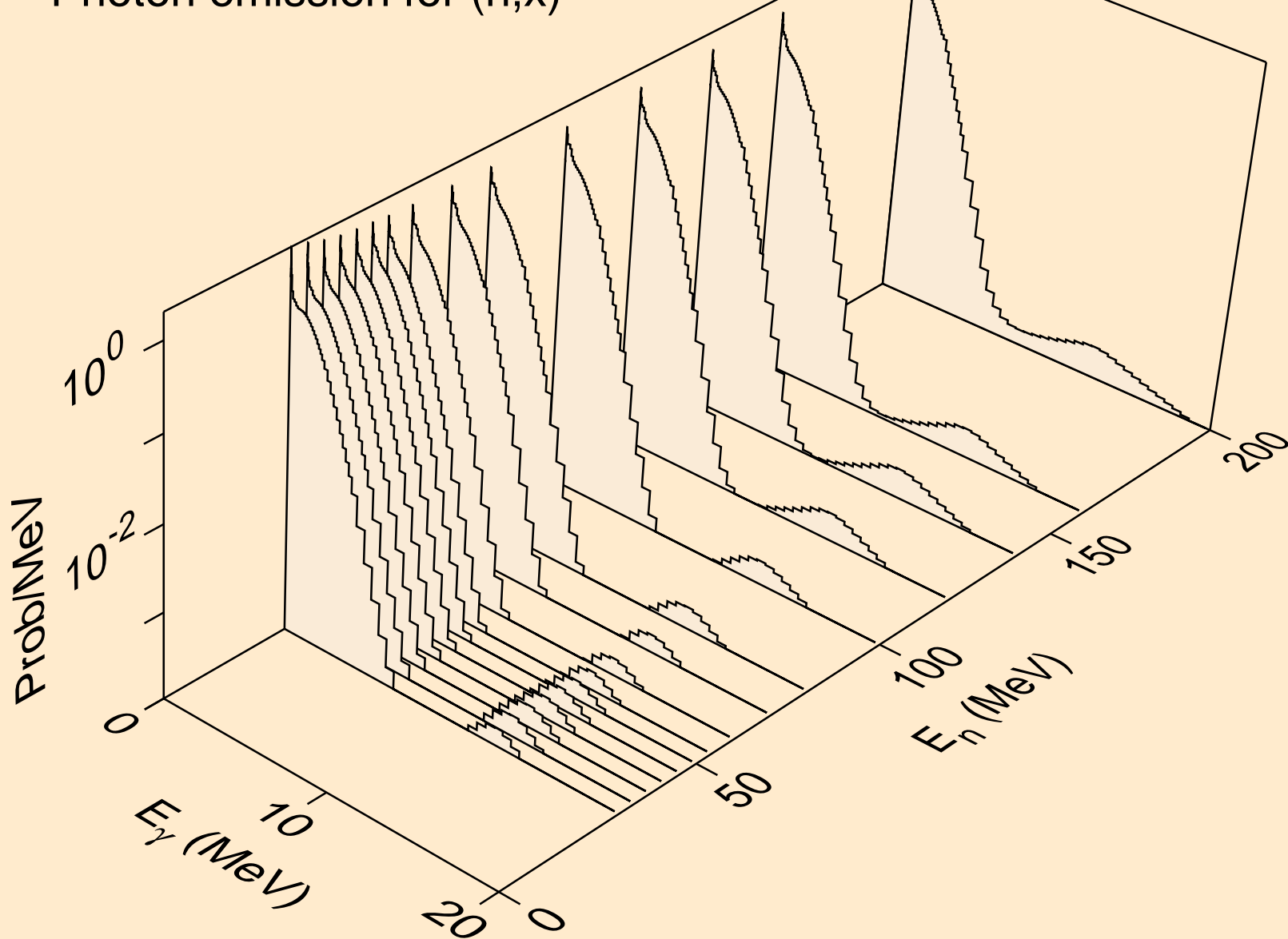


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

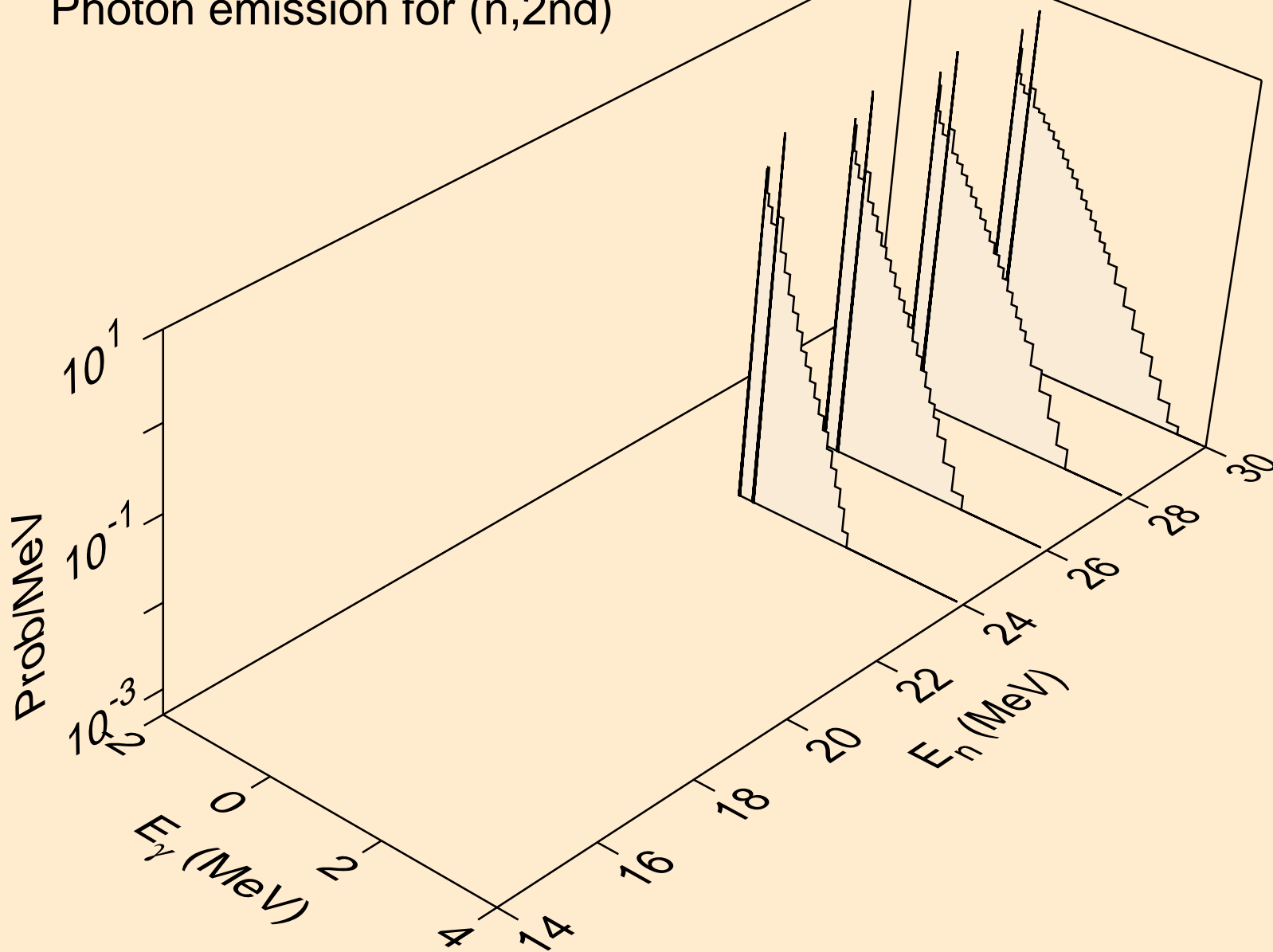
## Delayed neutron spectra



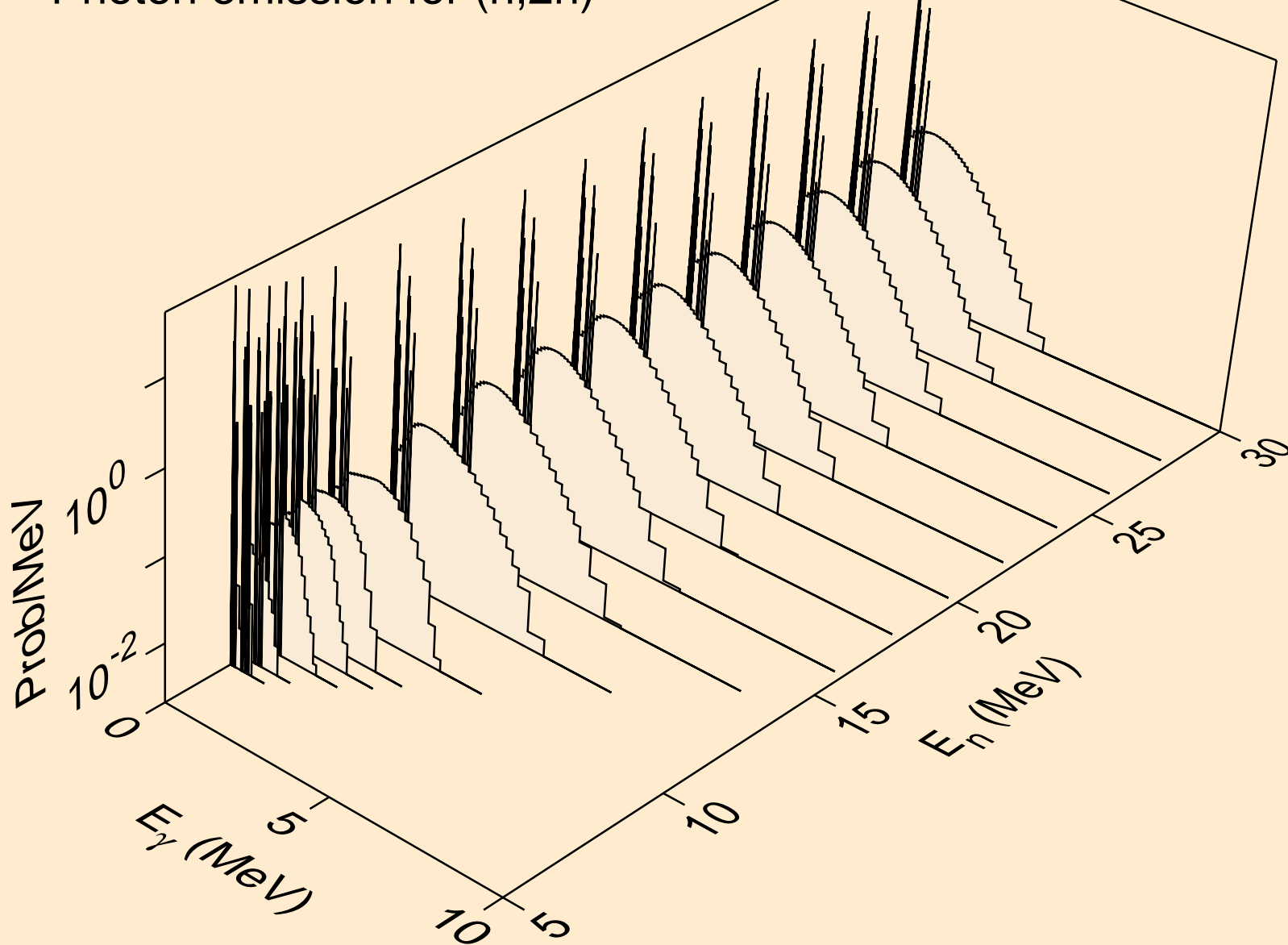
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



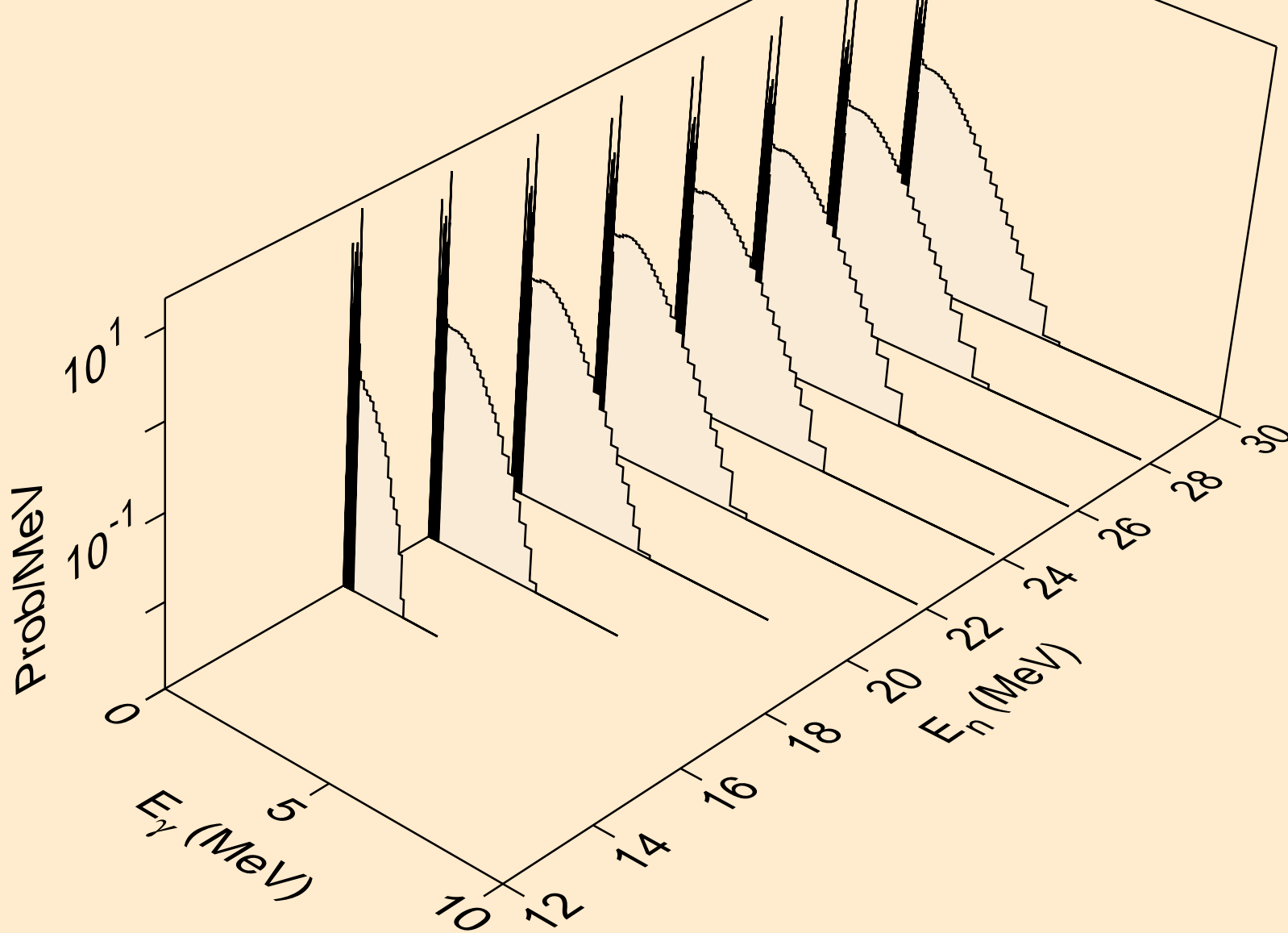
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



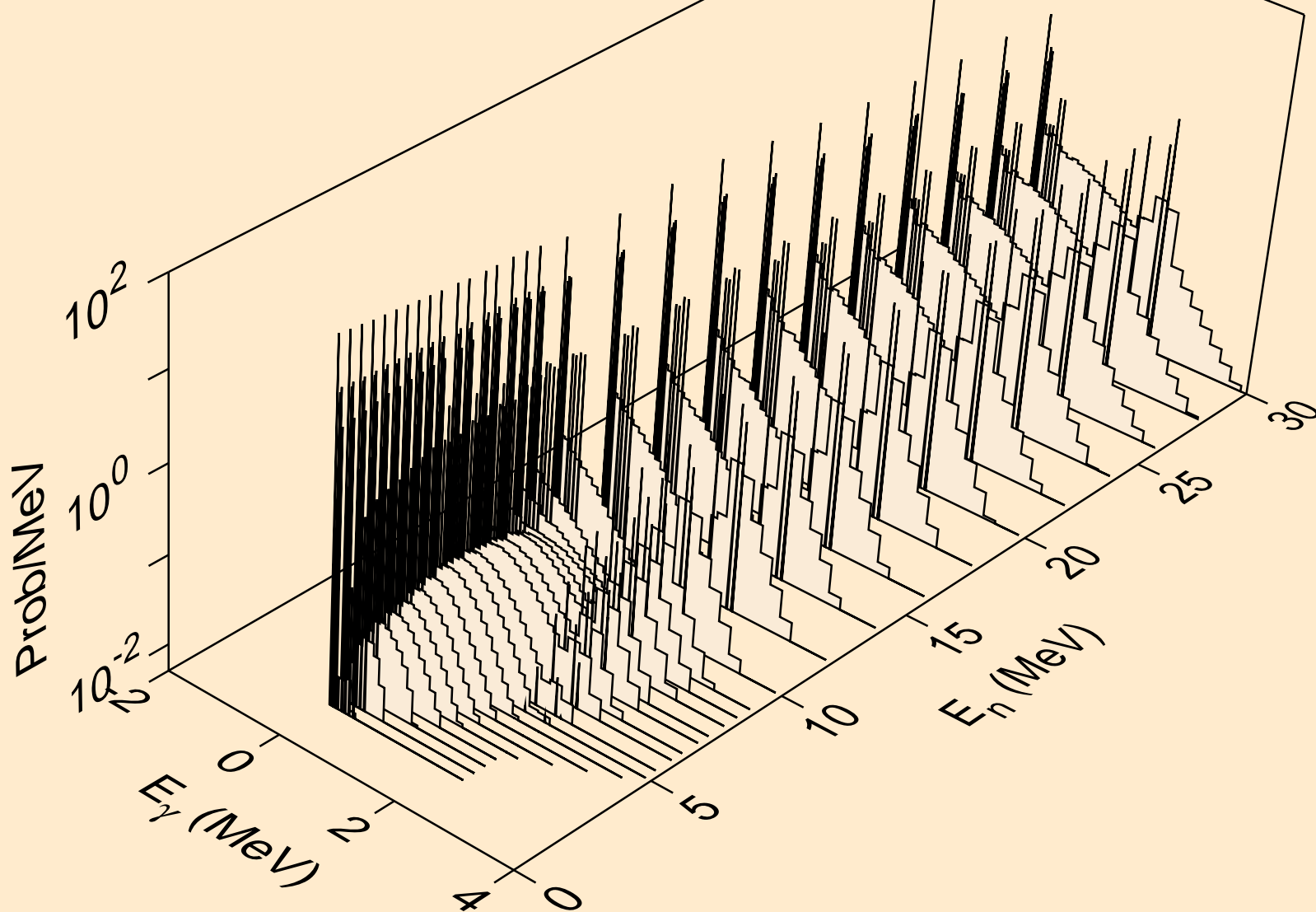
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Photon emission for (n,2n)



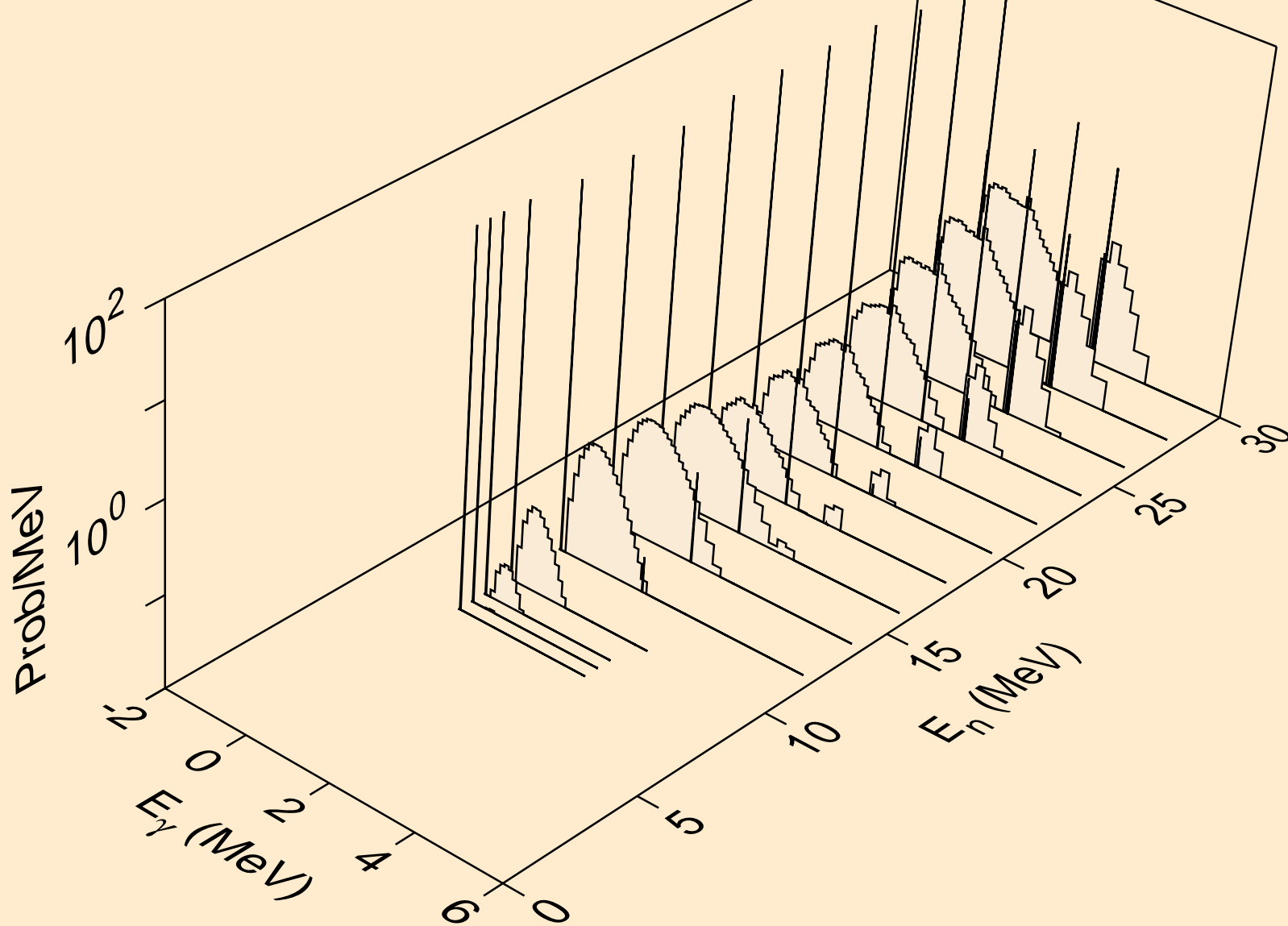
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

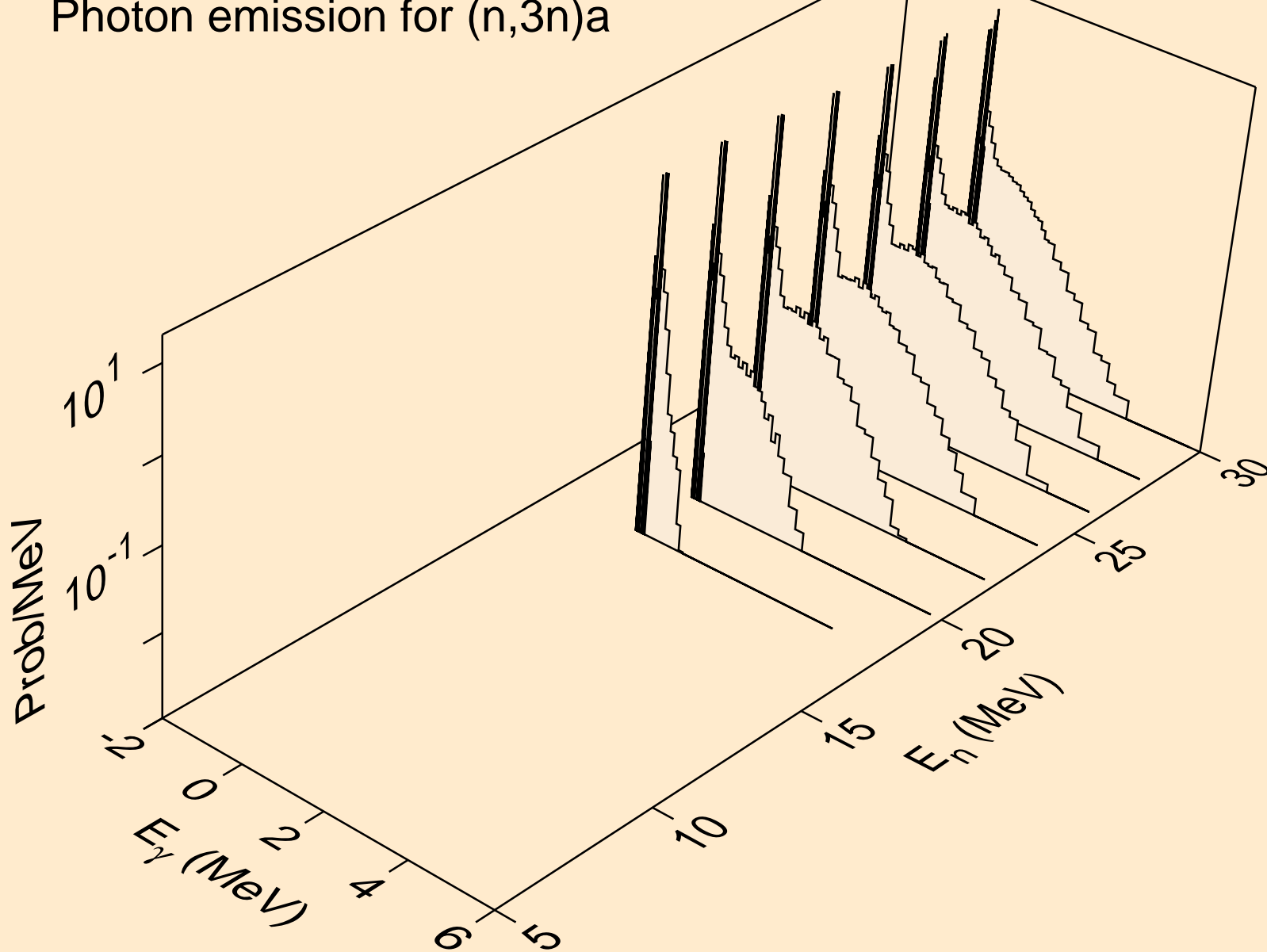


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Photon emission for (n,2n)a

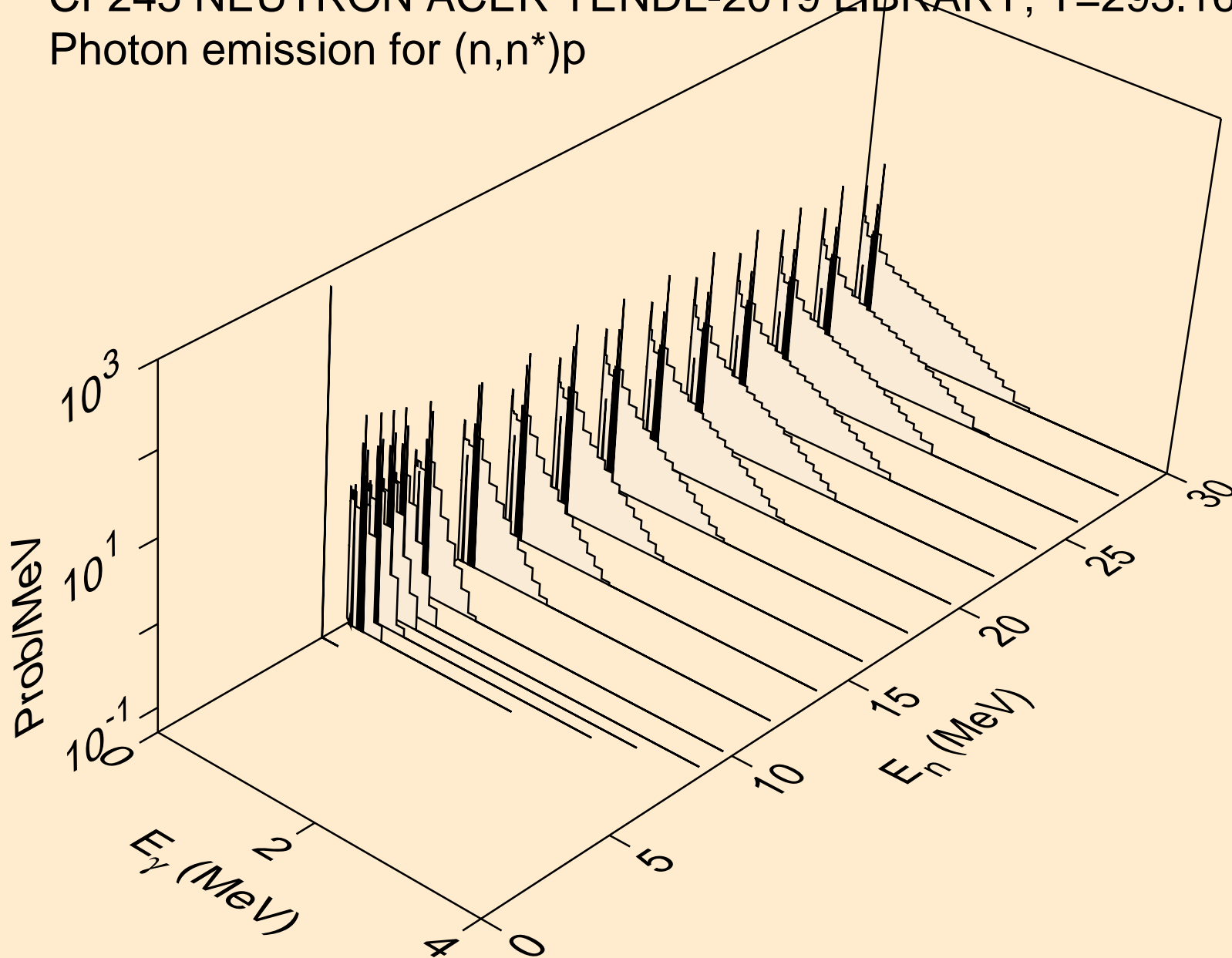




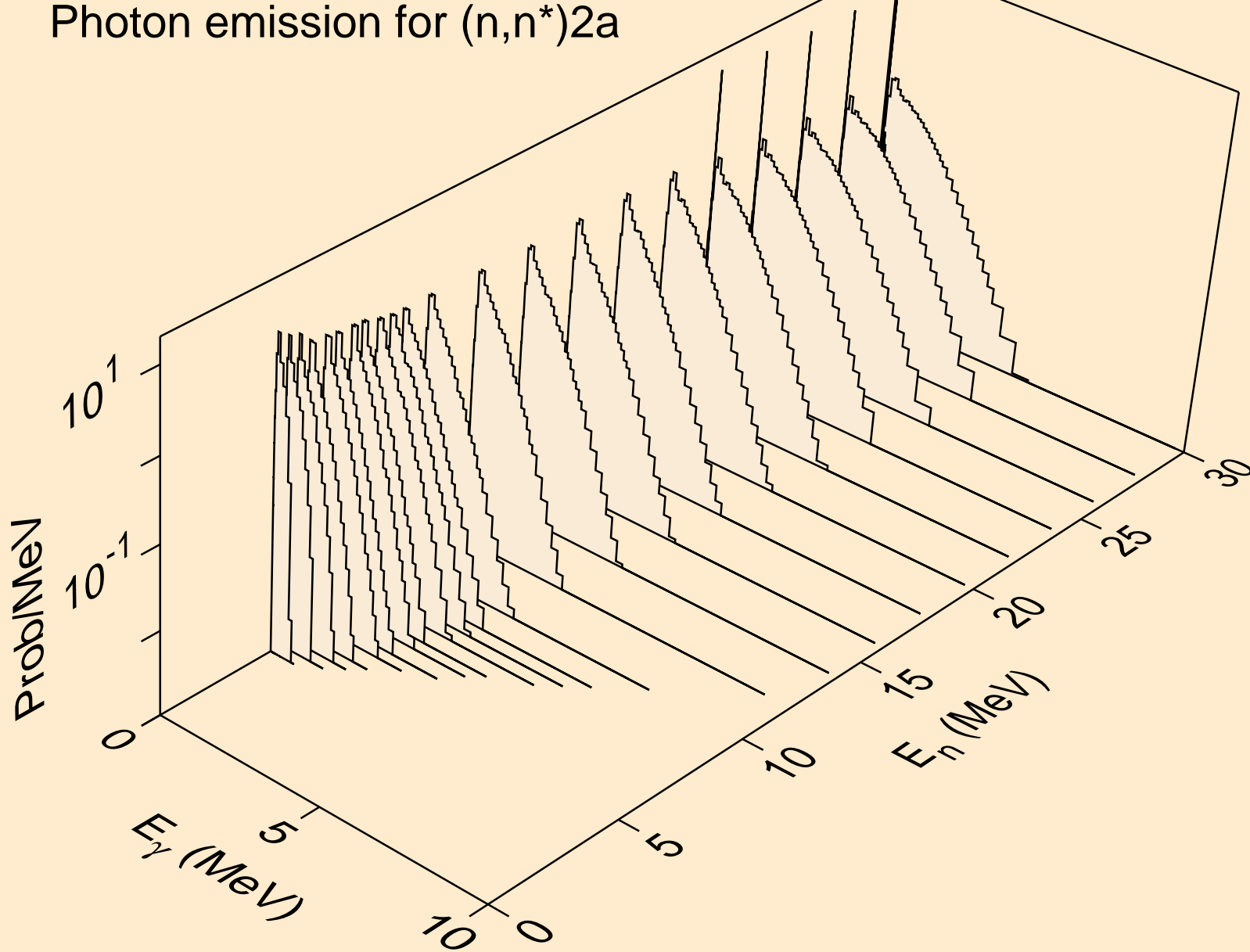
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)a



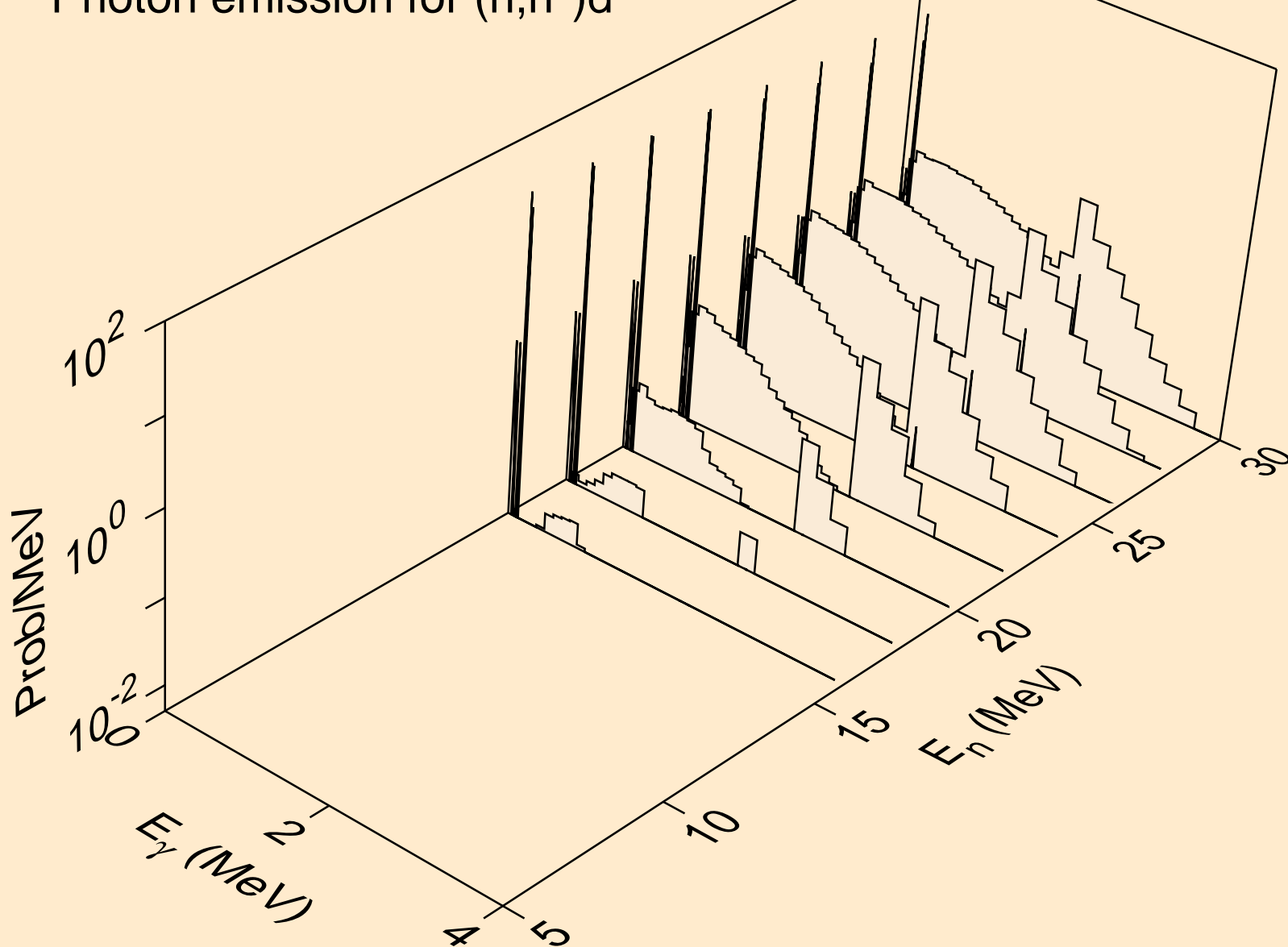
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Photon emission for (n,n\*)p



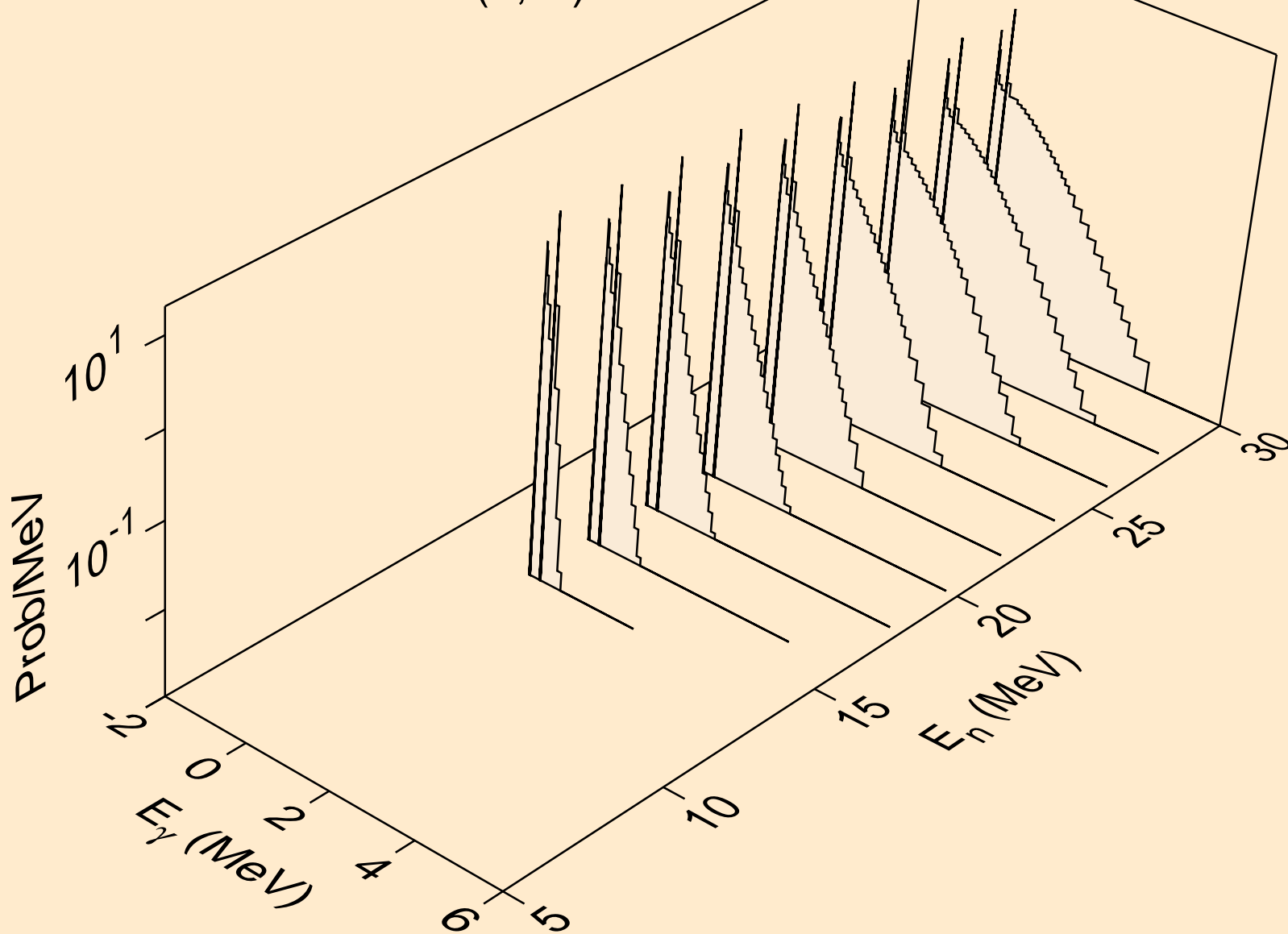
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Photon emission for (n,n\*)2a



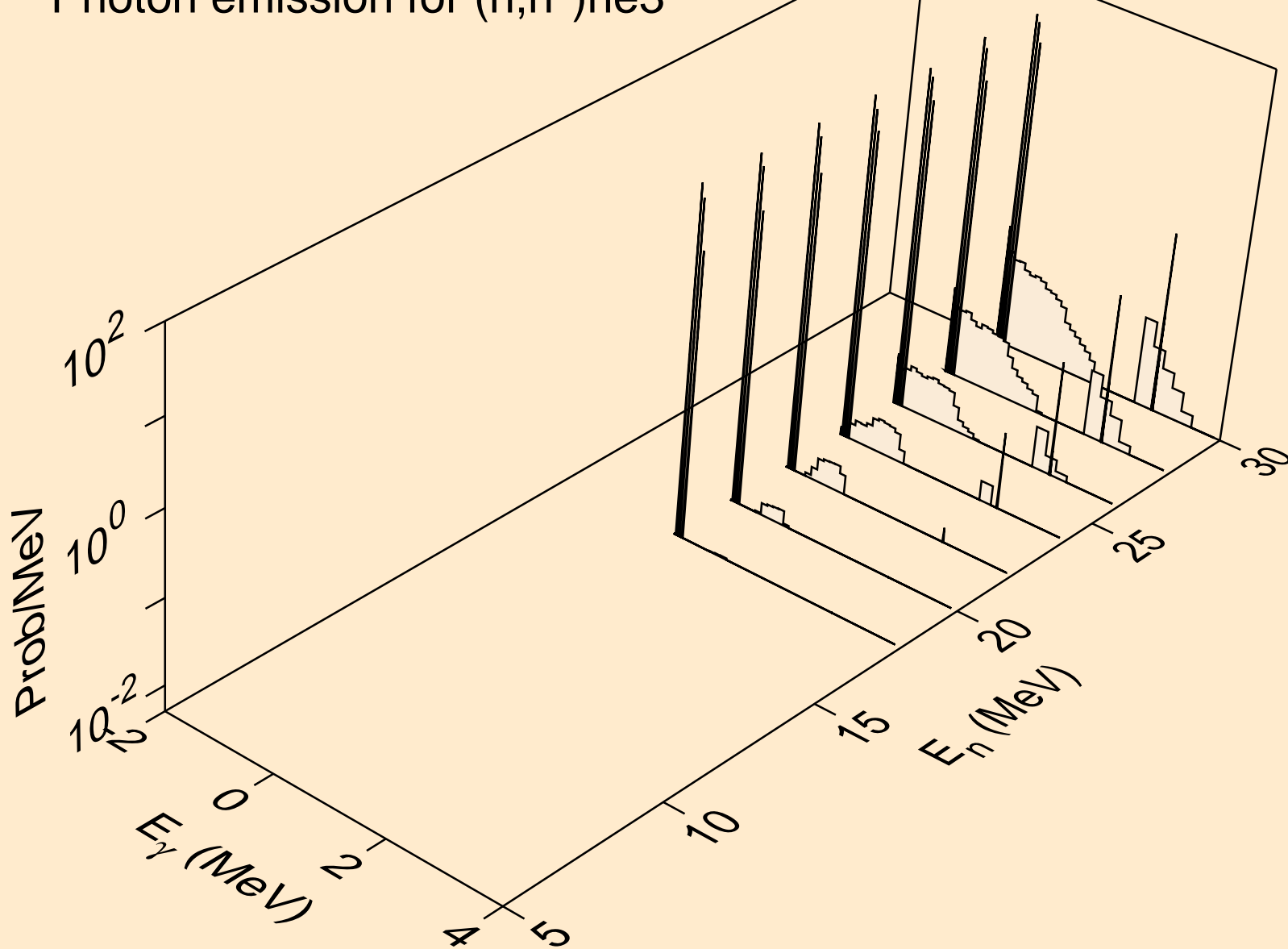
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



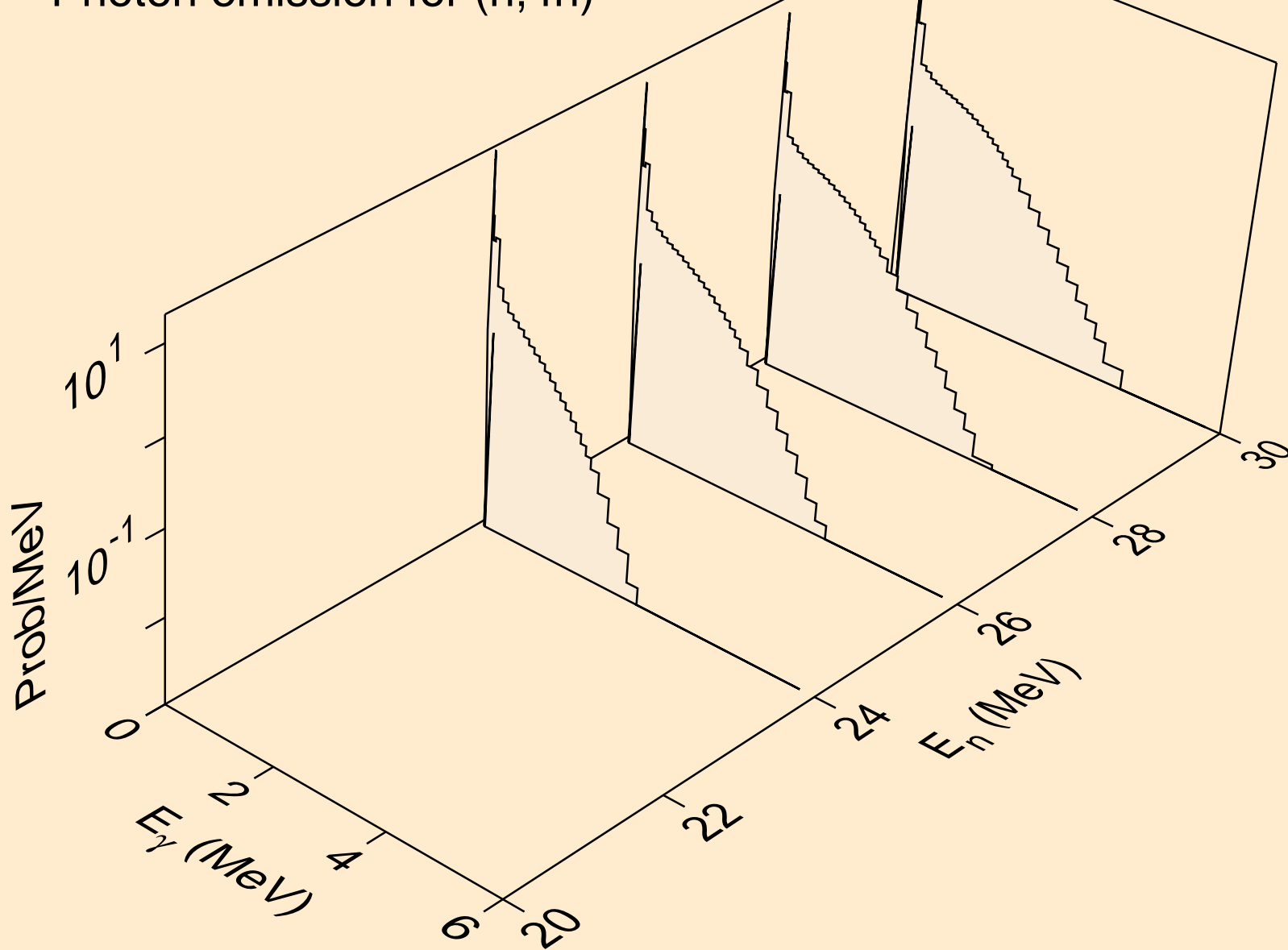
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t



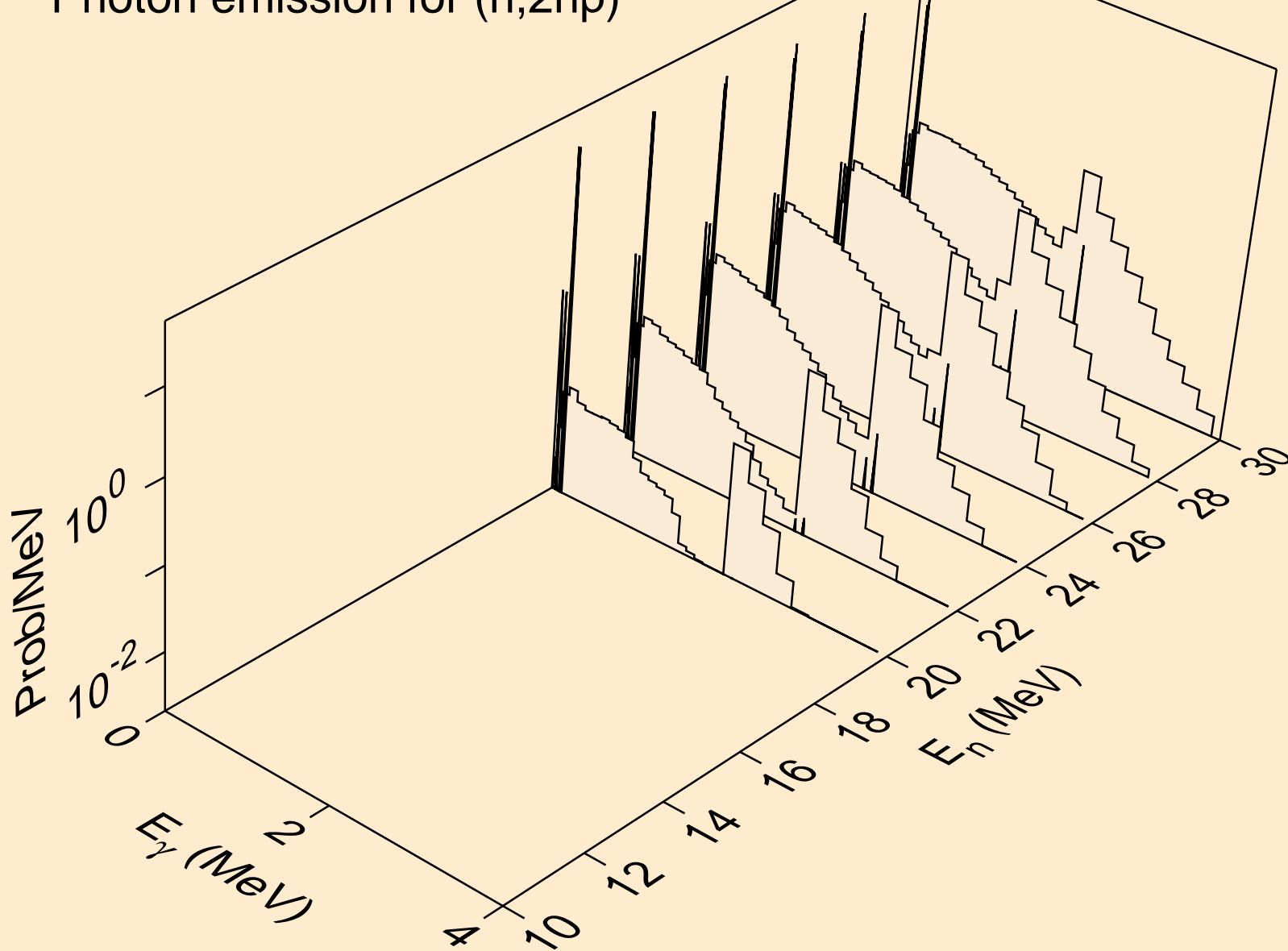
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)

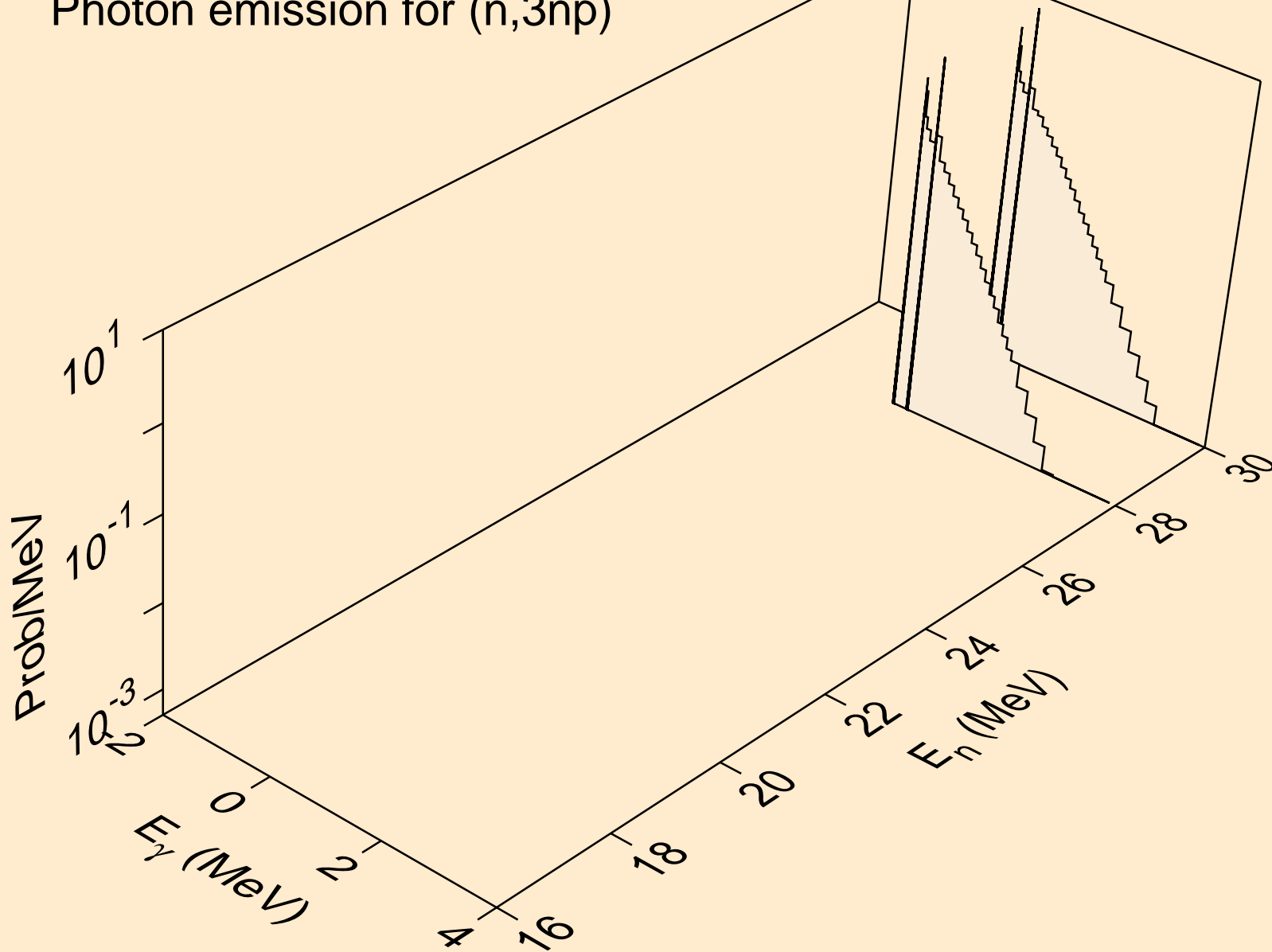


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Photon emission for (n,2np)

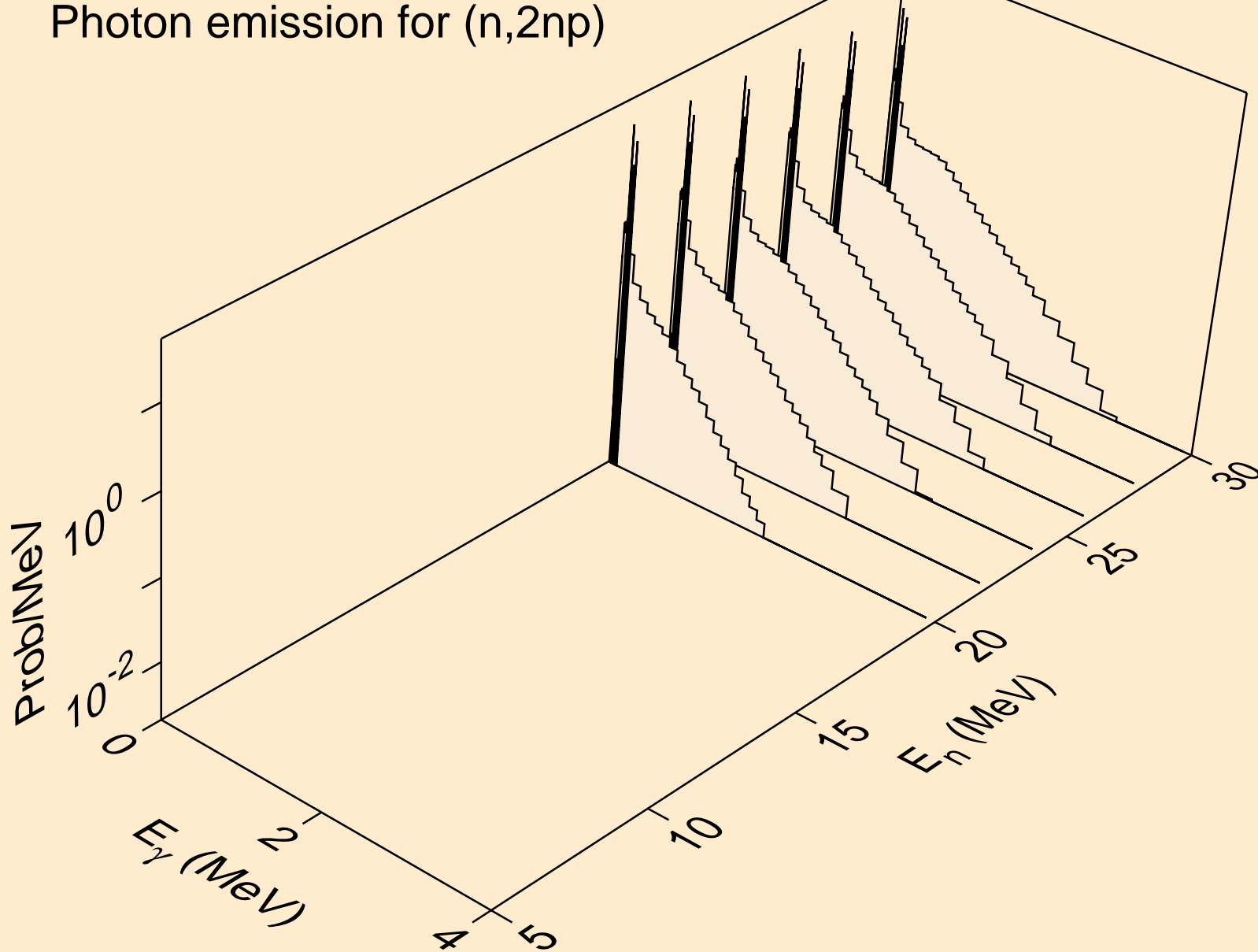




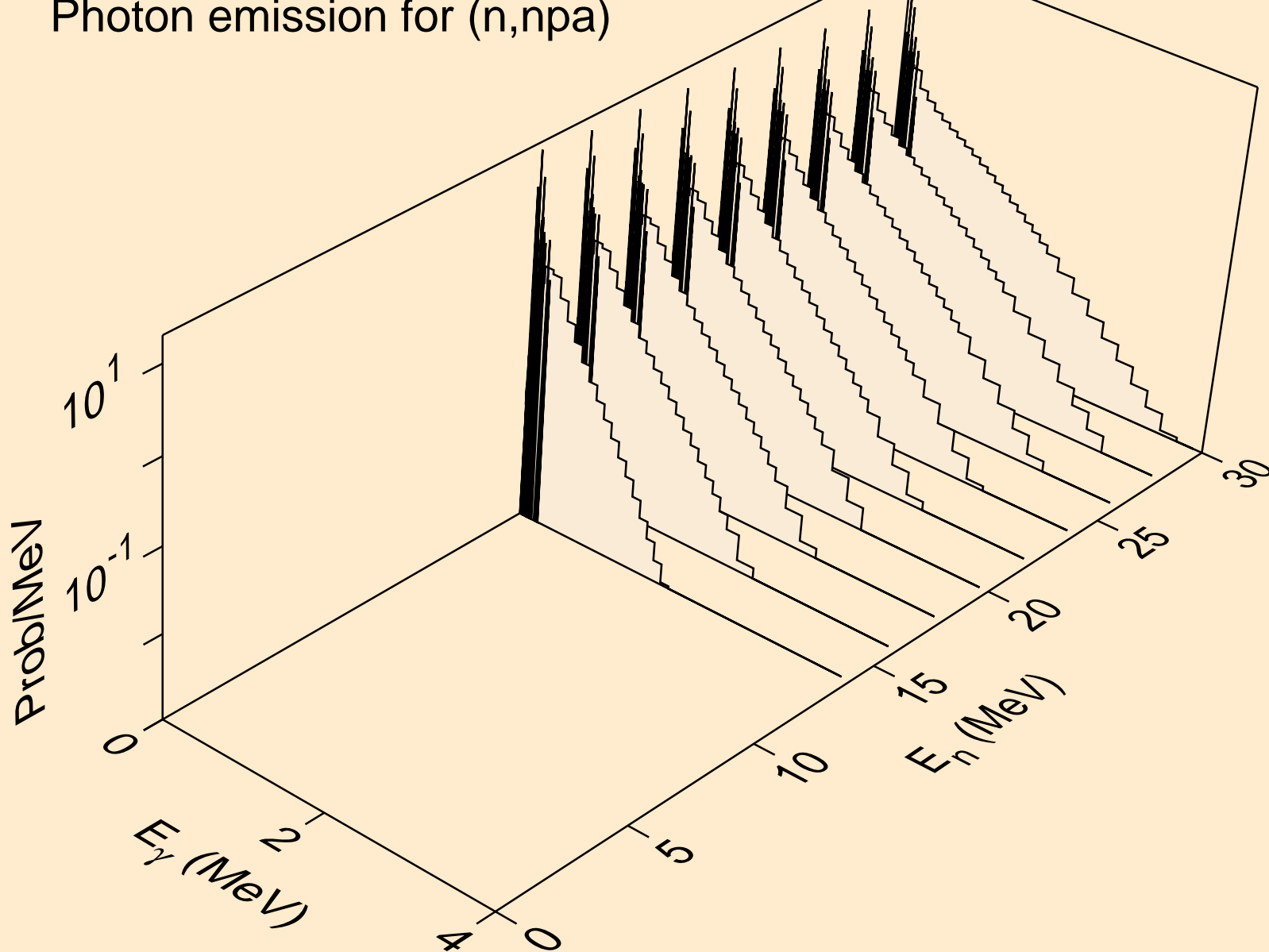
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Photon emission for (n,3np)



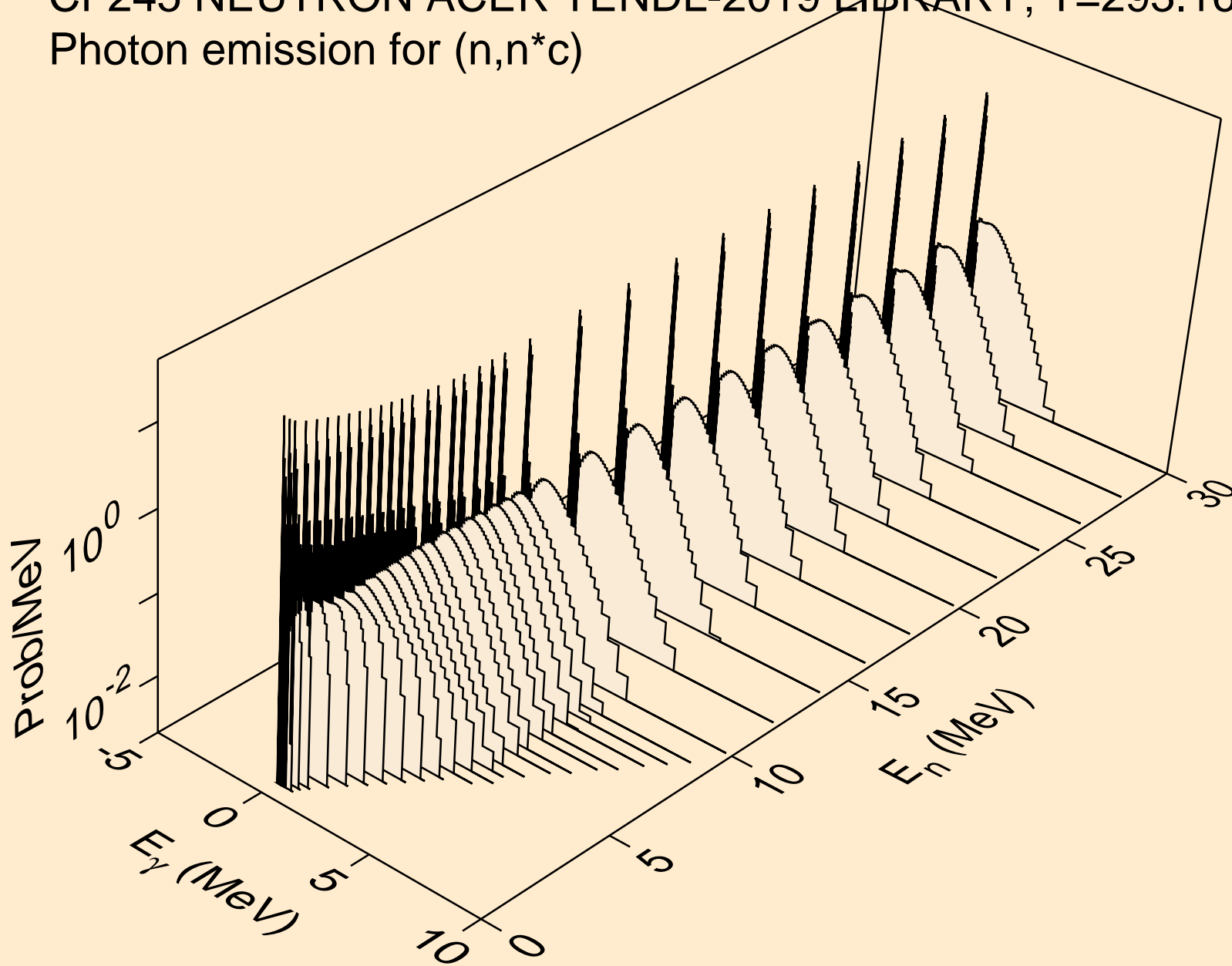
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Photon emission for (n,2np)



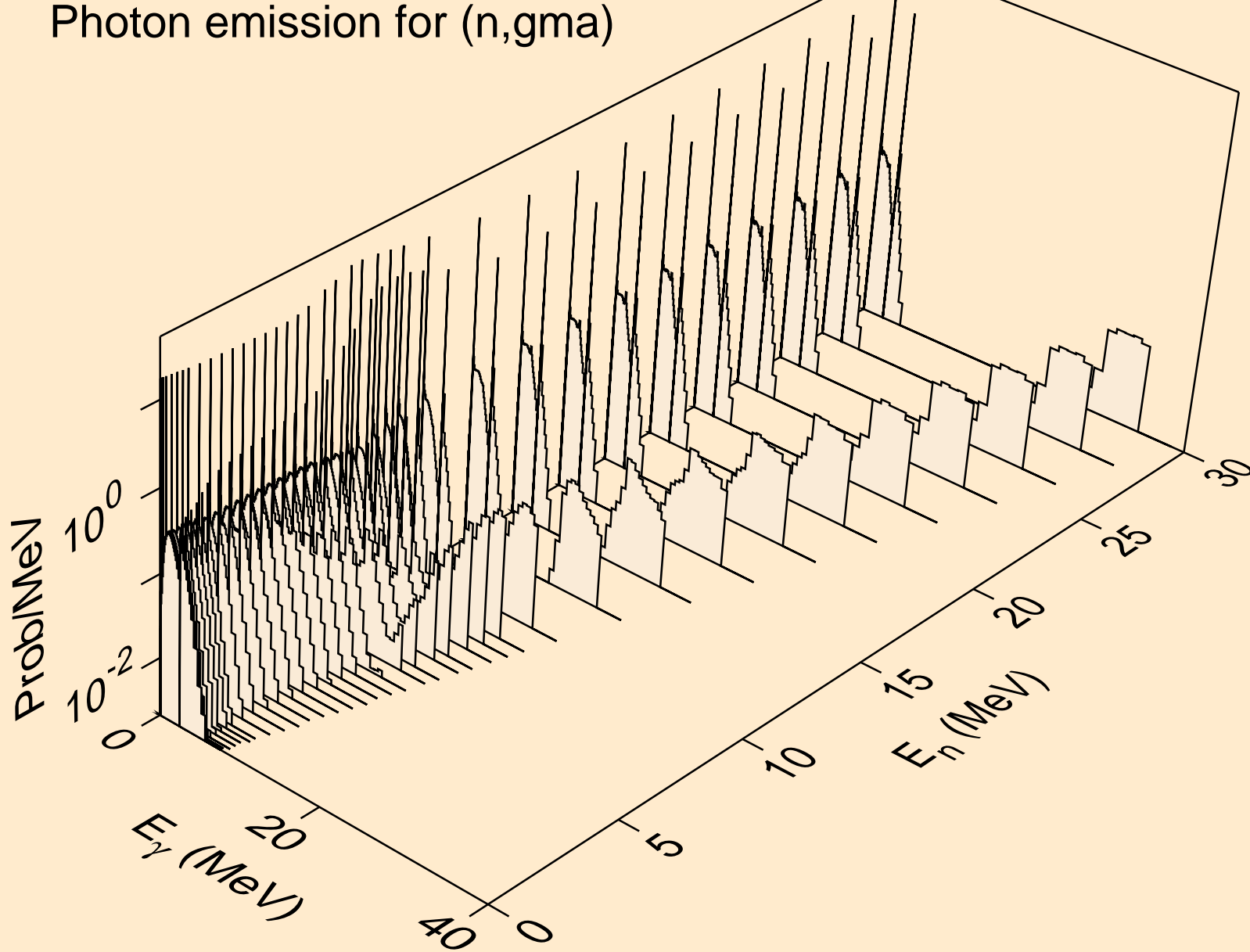
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Photon emission for (n,npa)



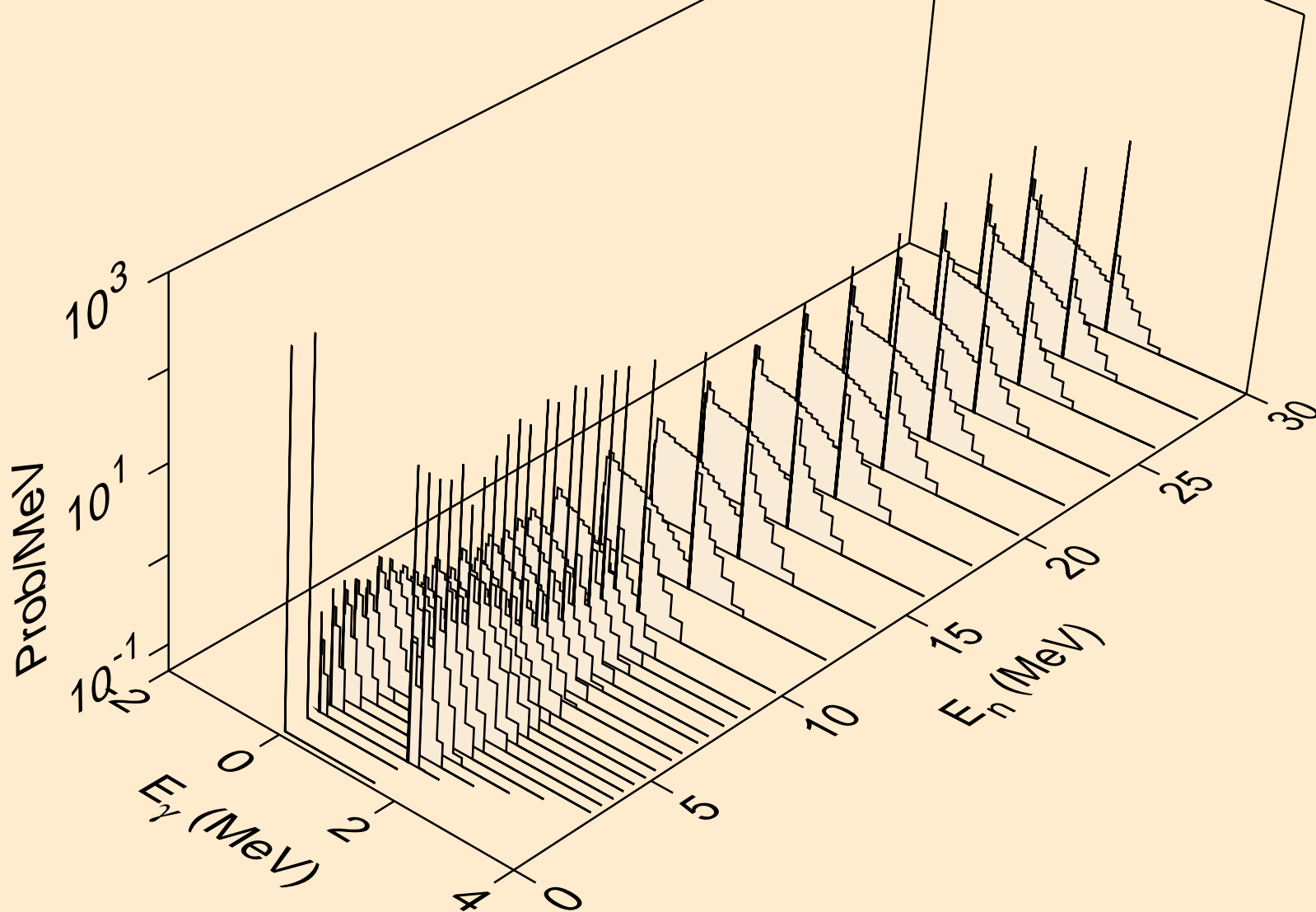
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Photon emission for (n,n\*c)



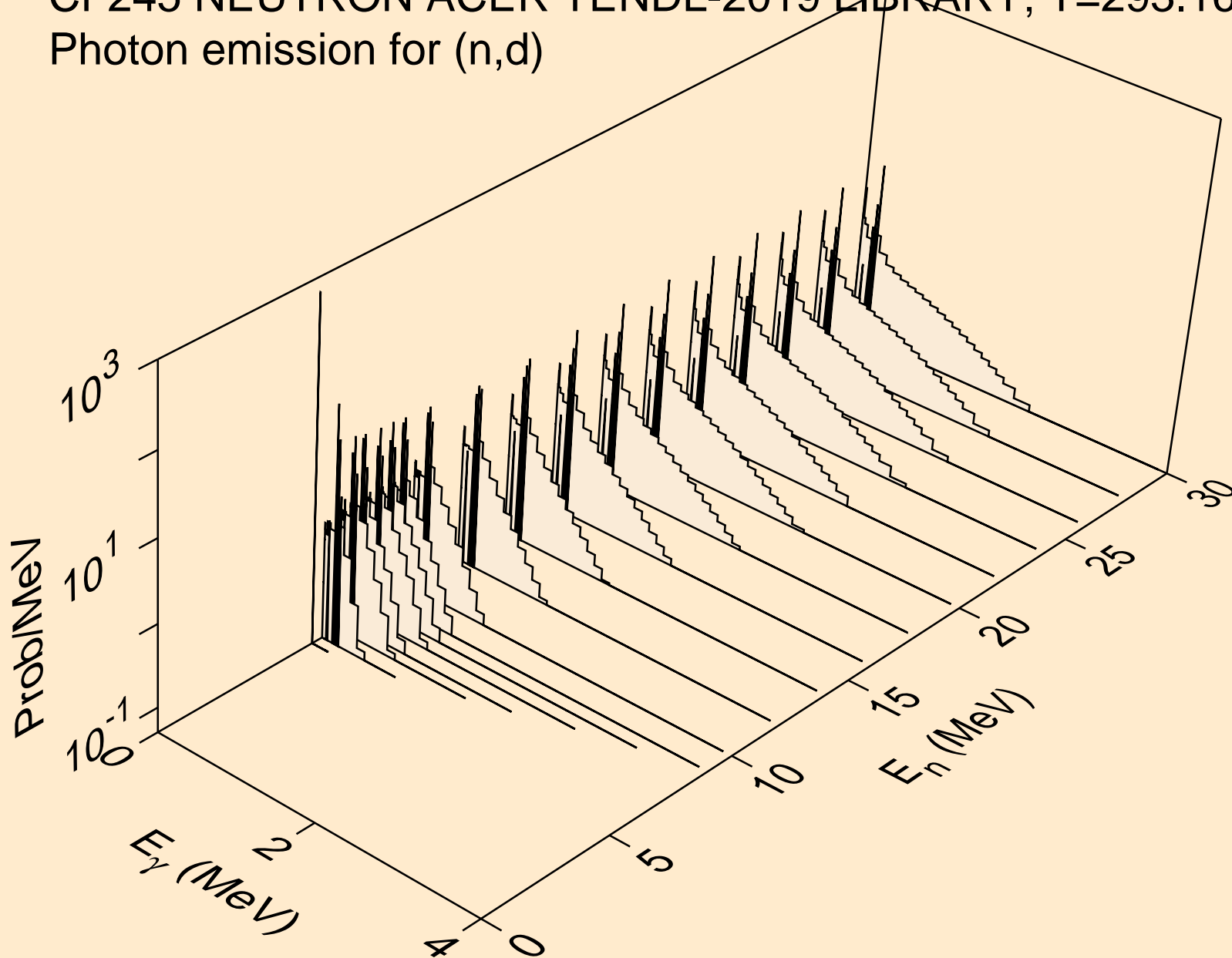
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Photon emission for (n,gma)



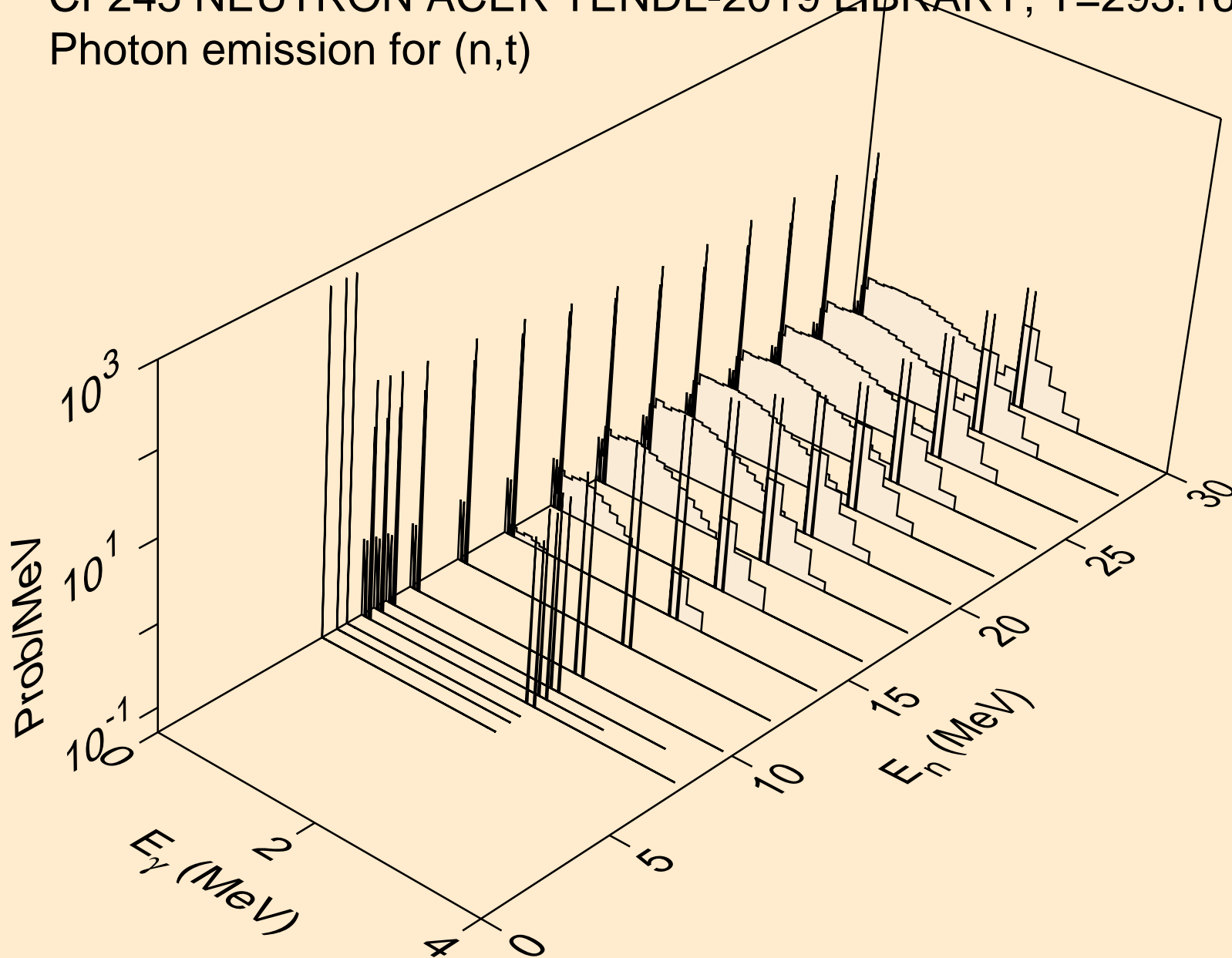
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Photon emission for (n,p)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

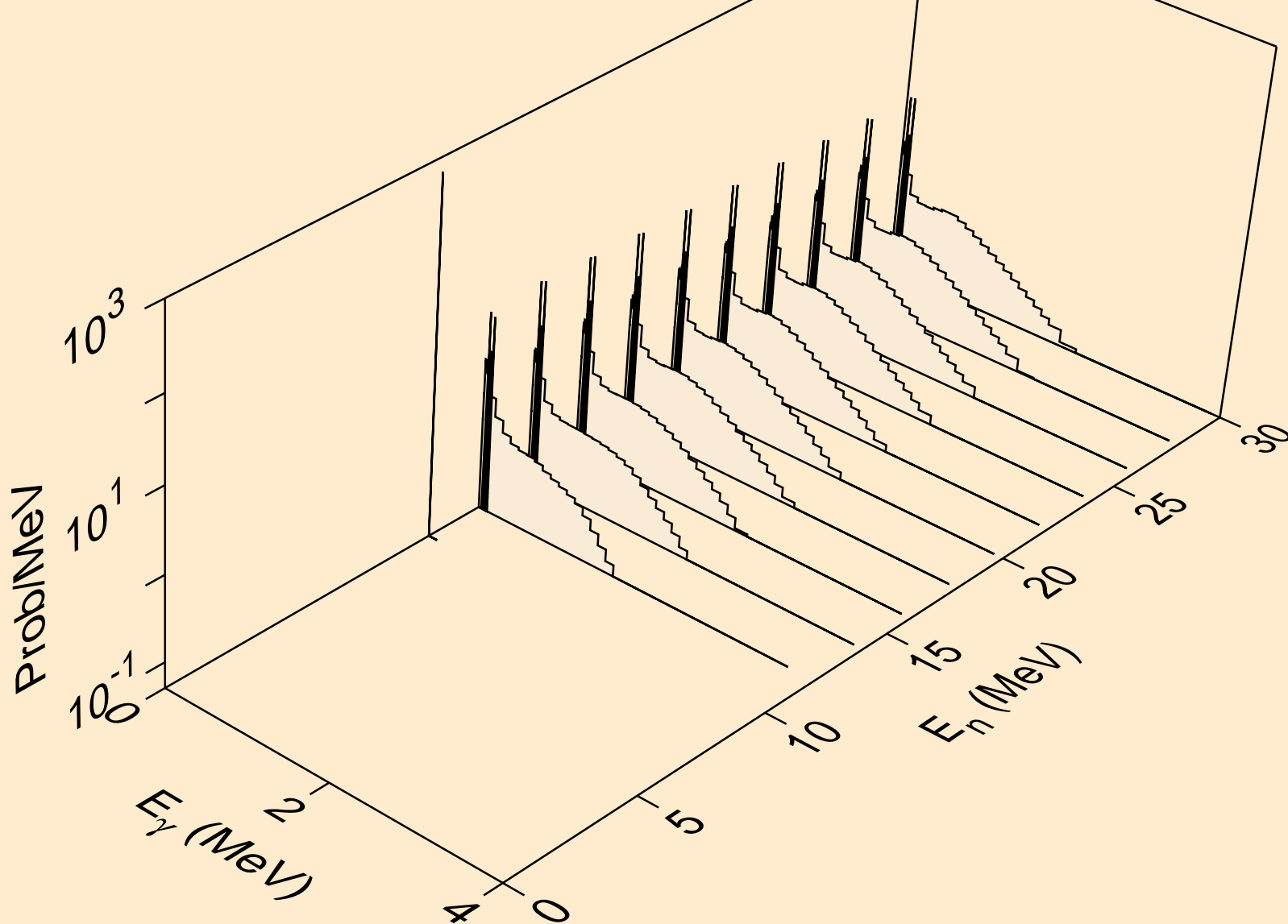


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Photon emission for (n,t)

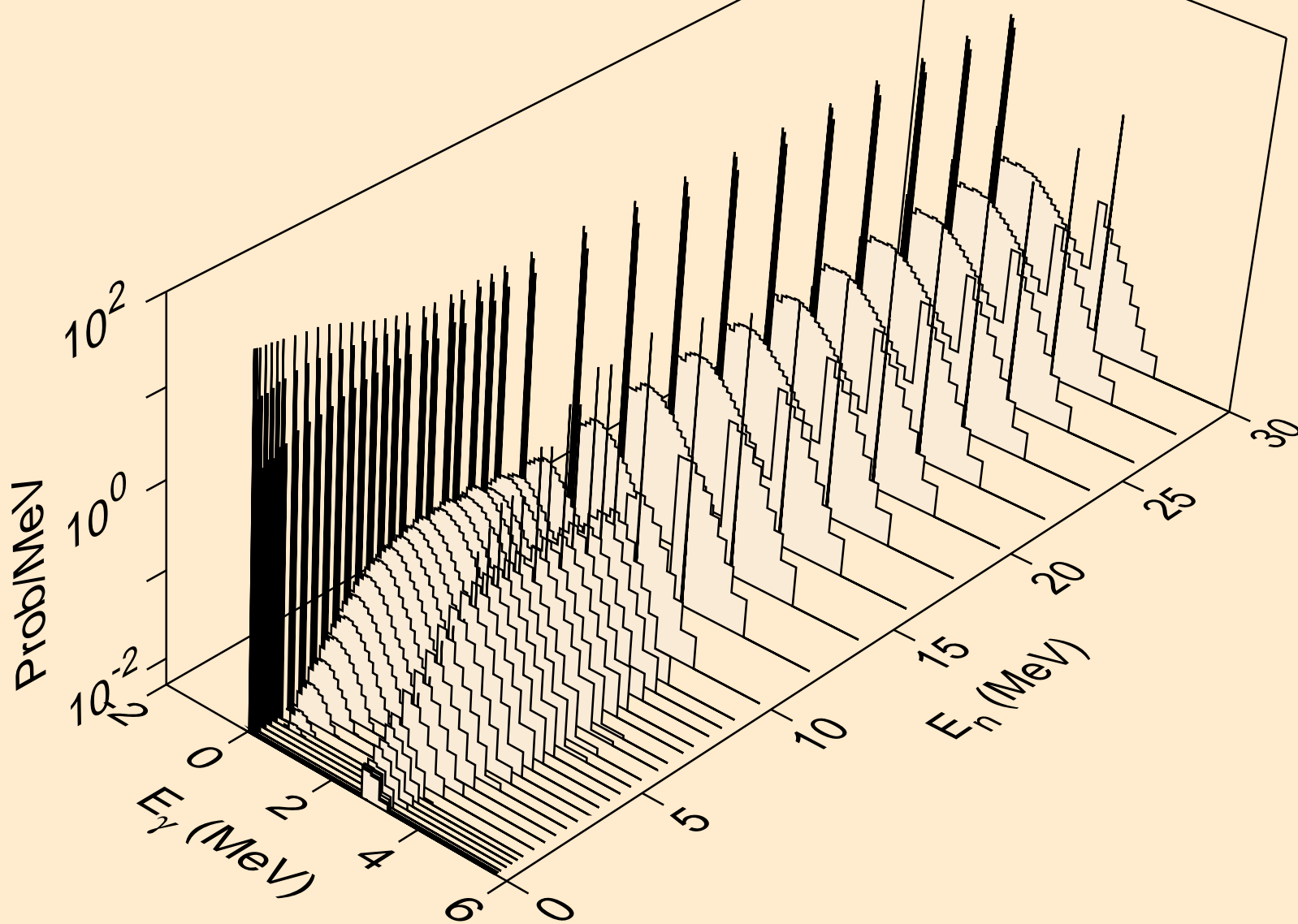




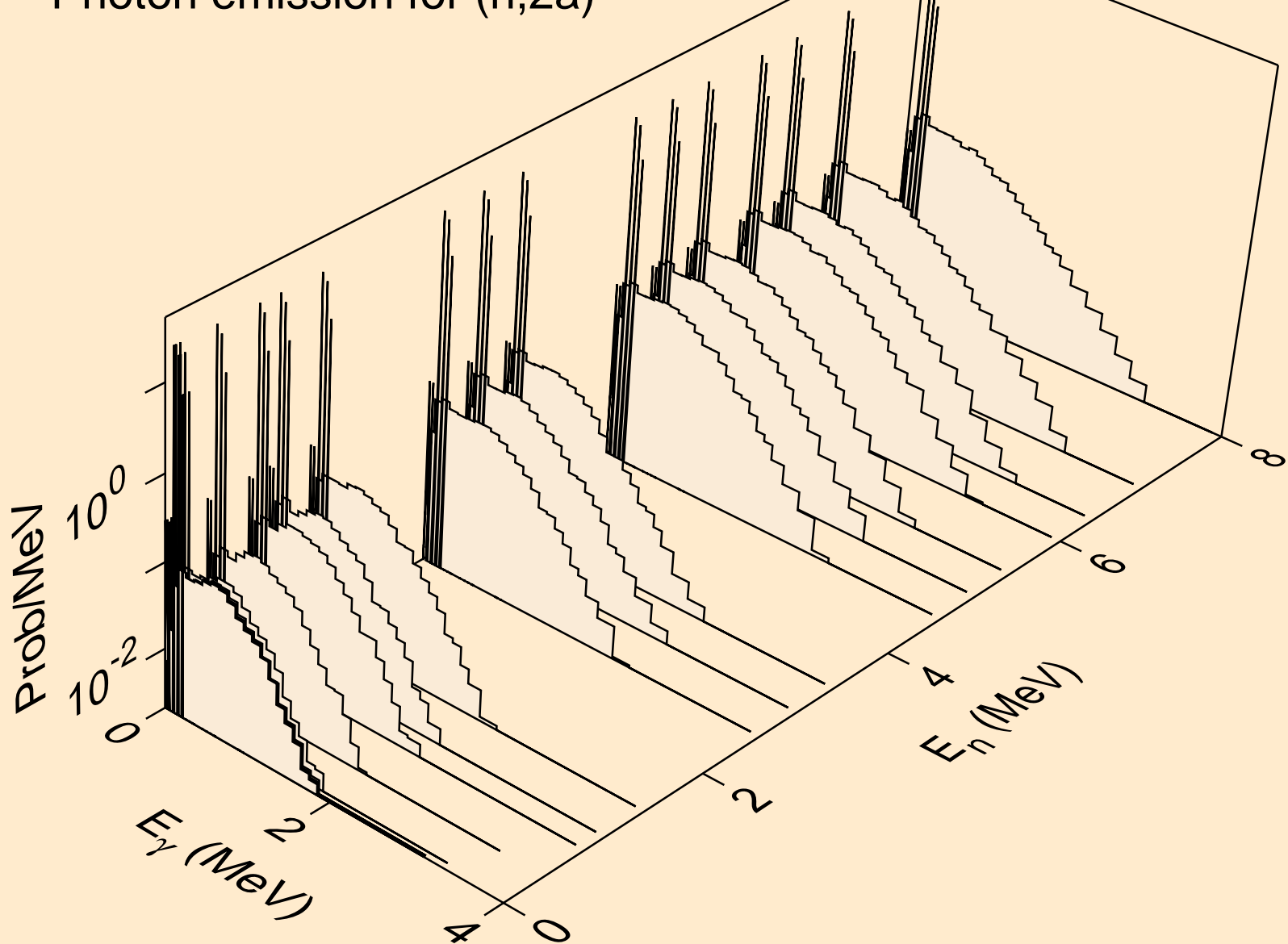
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Photon emission for (n,he3)



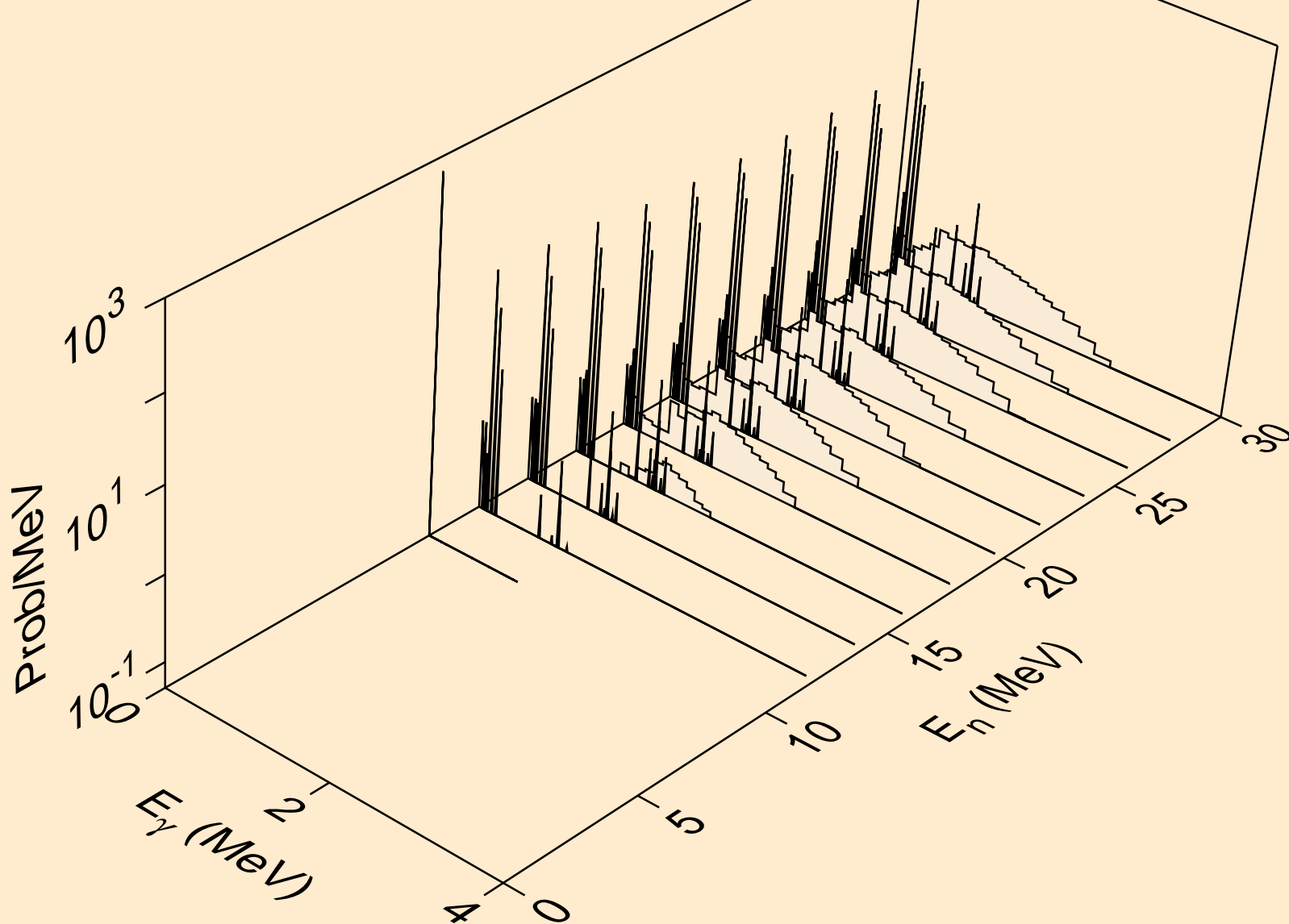
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Photon emission for (n,a)



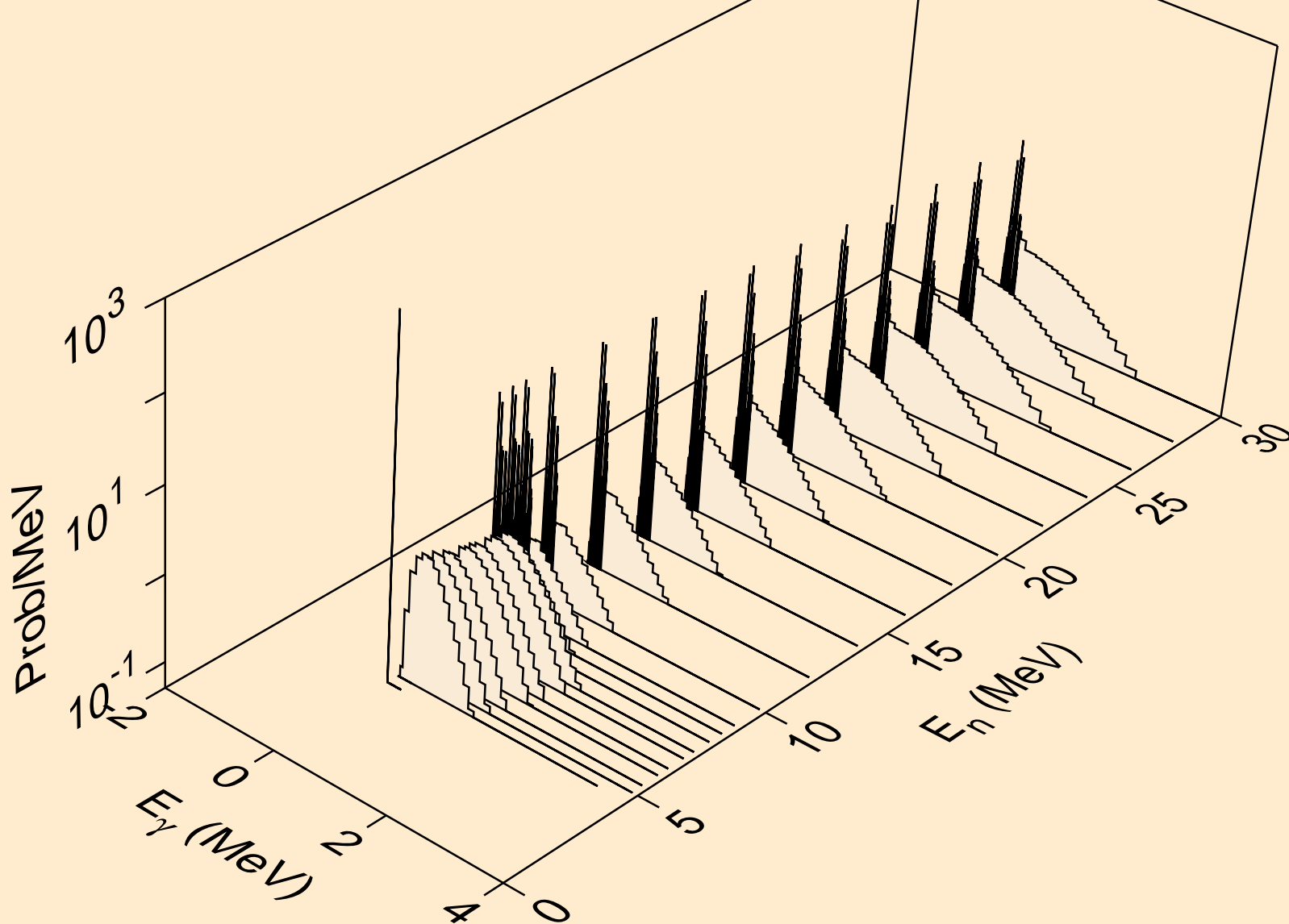
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Photon emission for (n,2a)



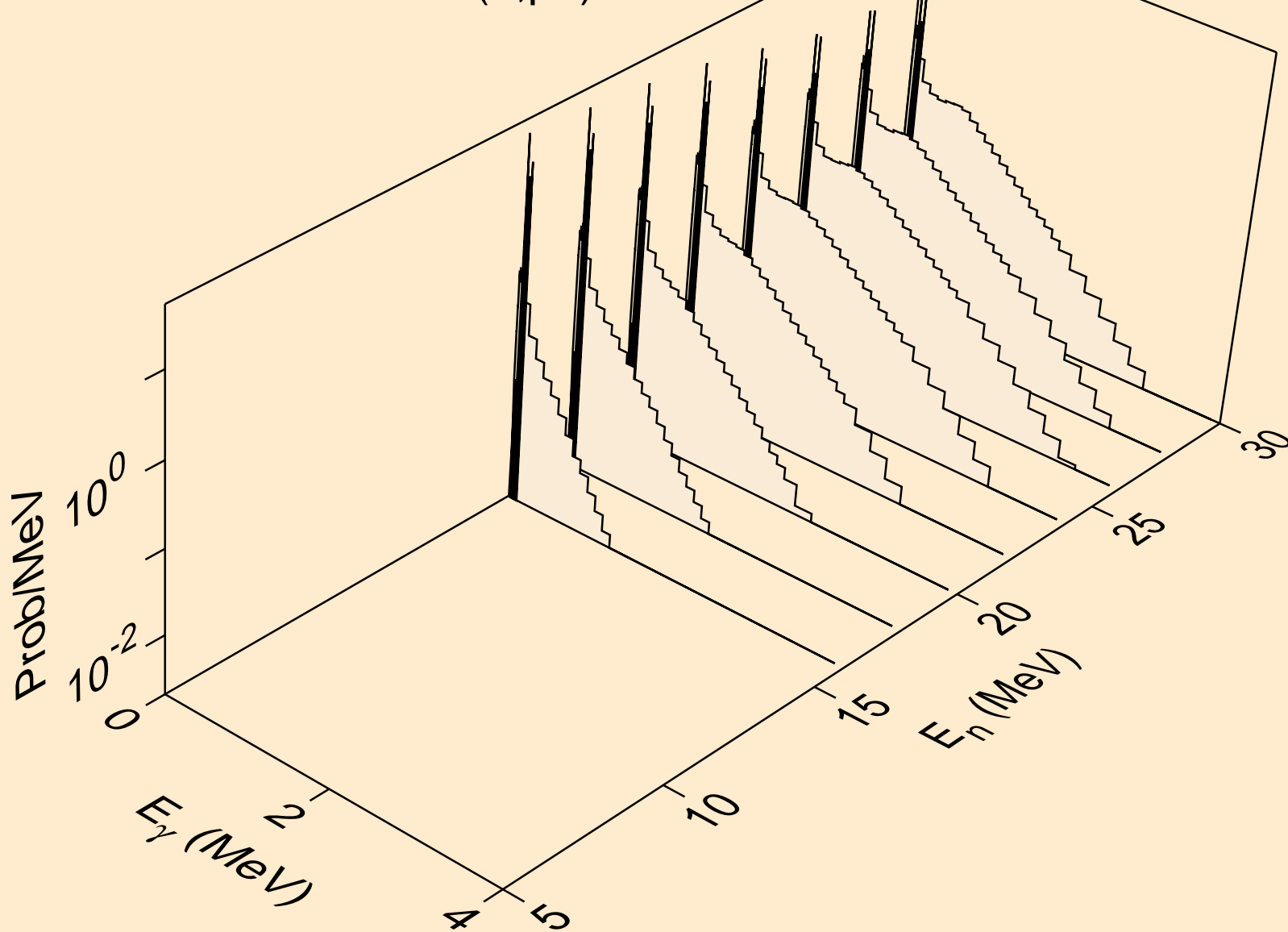
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Photon emission for (n,2p)



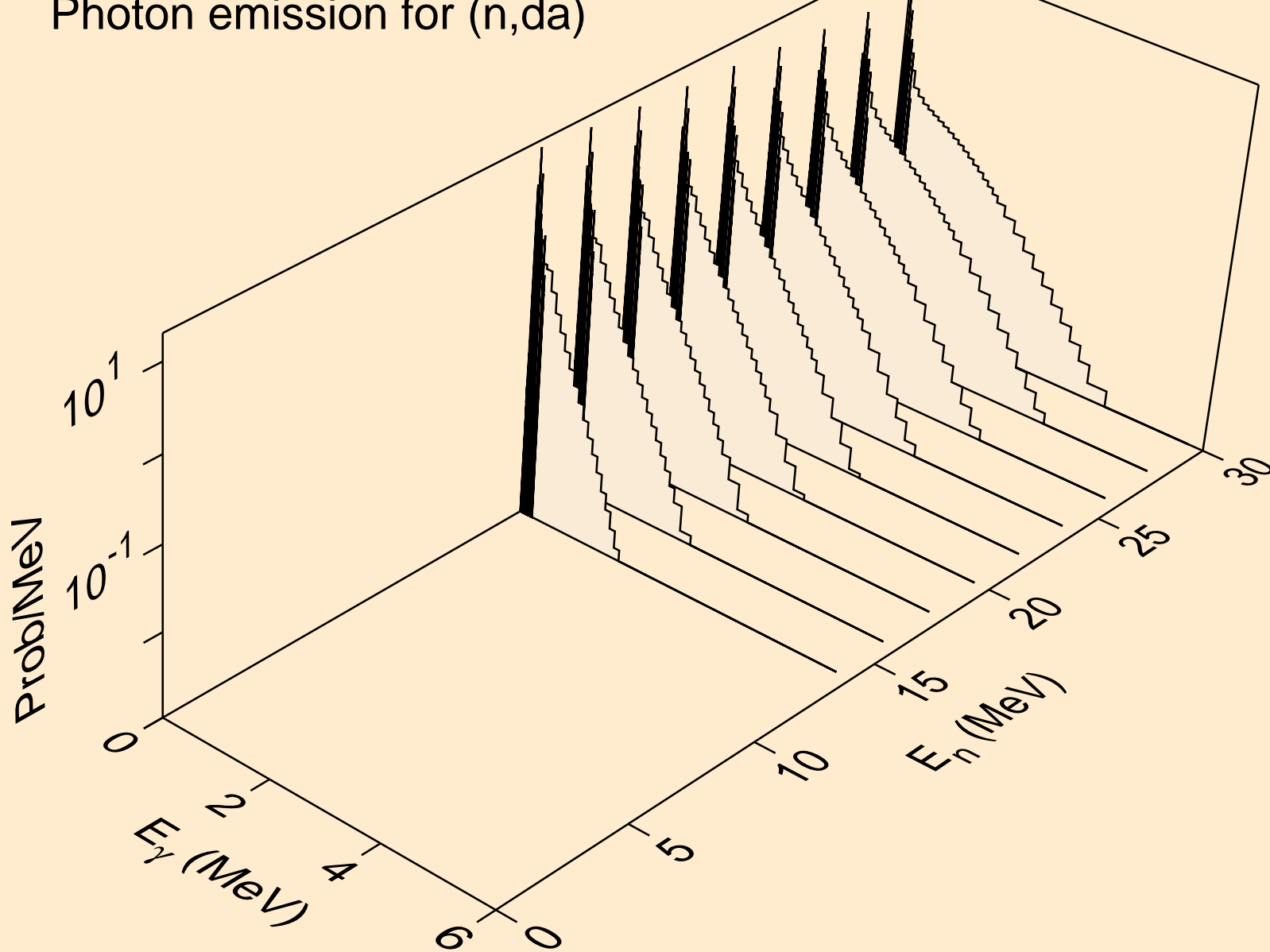
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Photon emission for (n,p $\alpha$ )



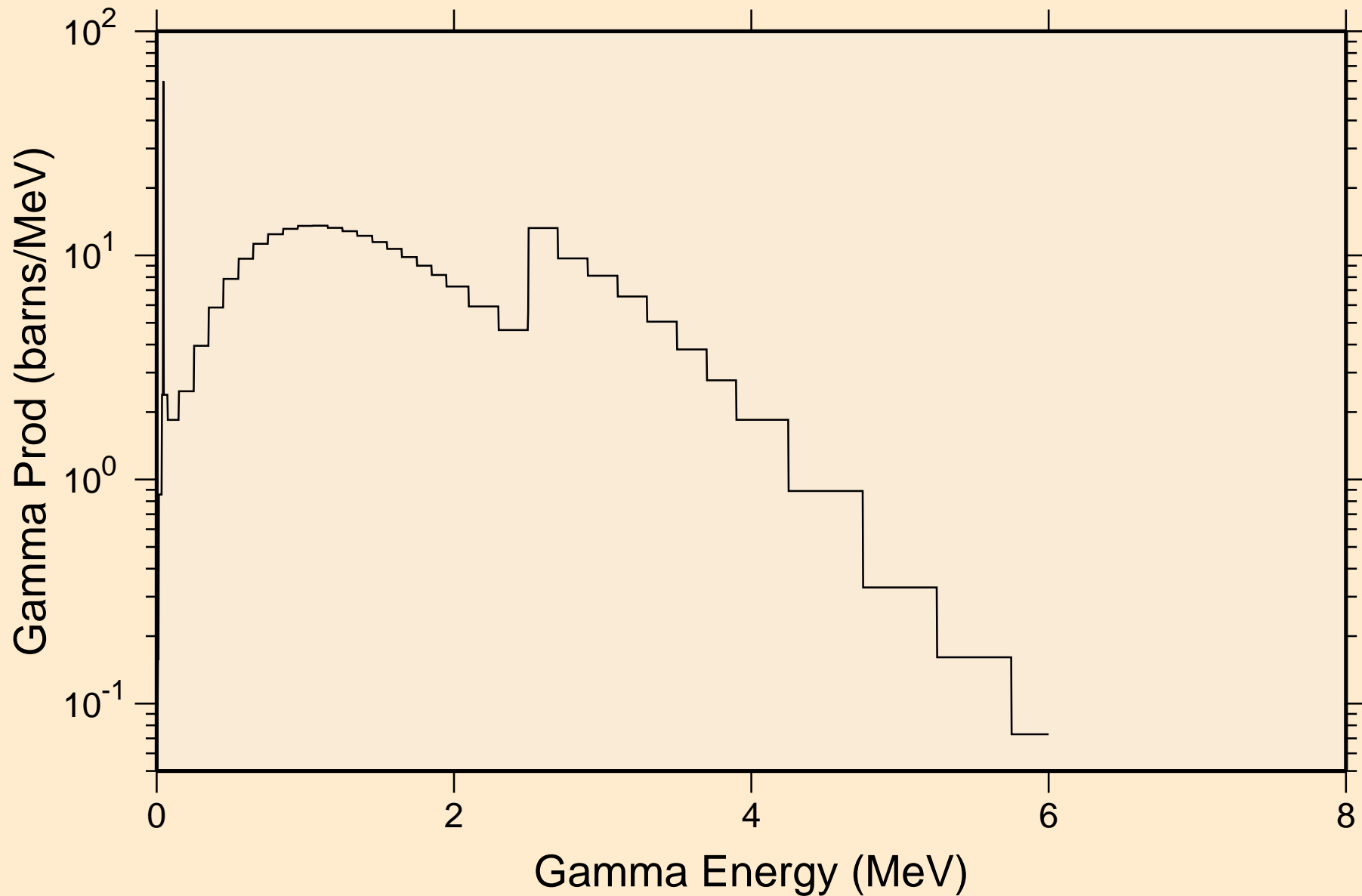
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,da)

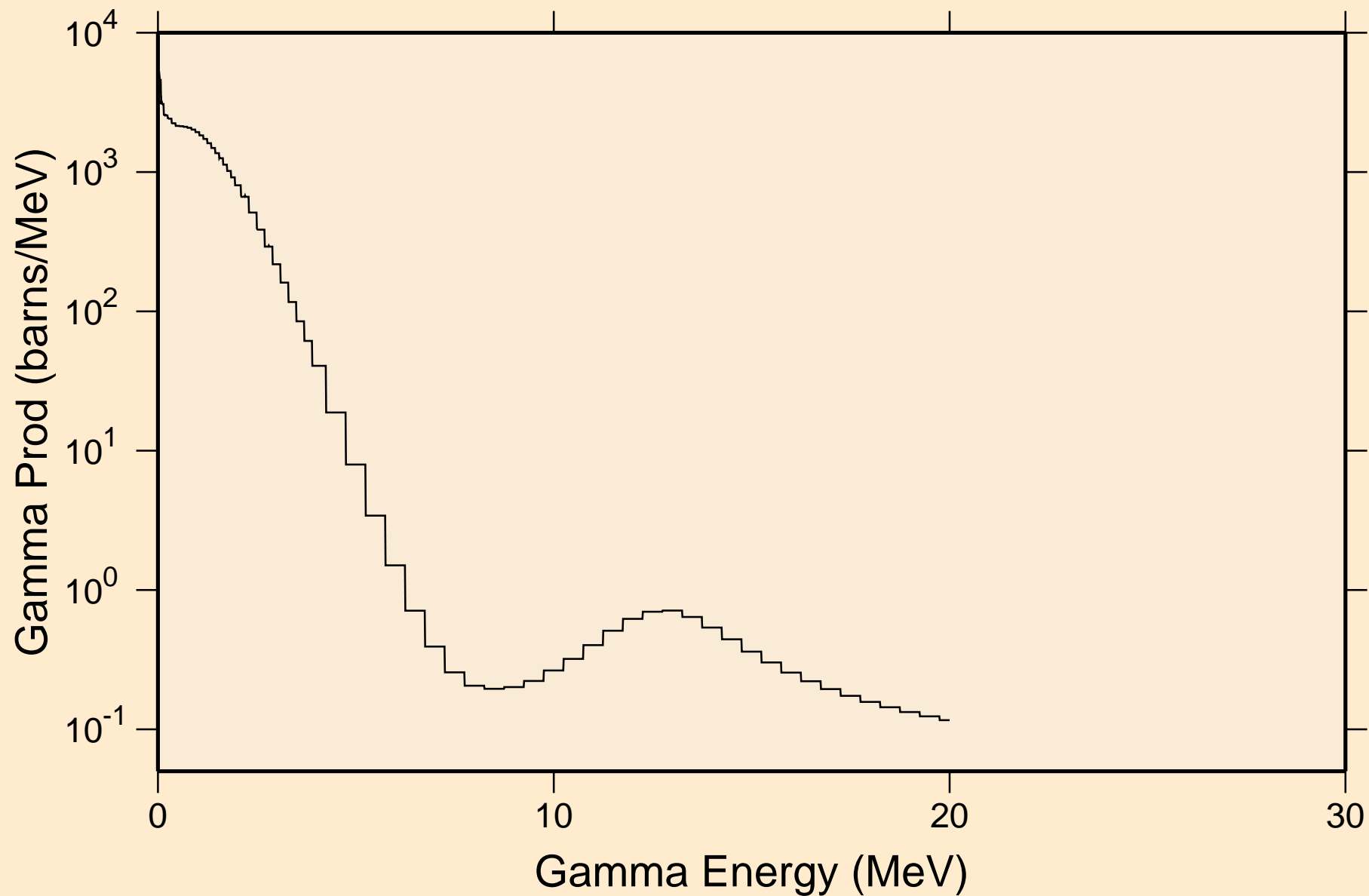


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



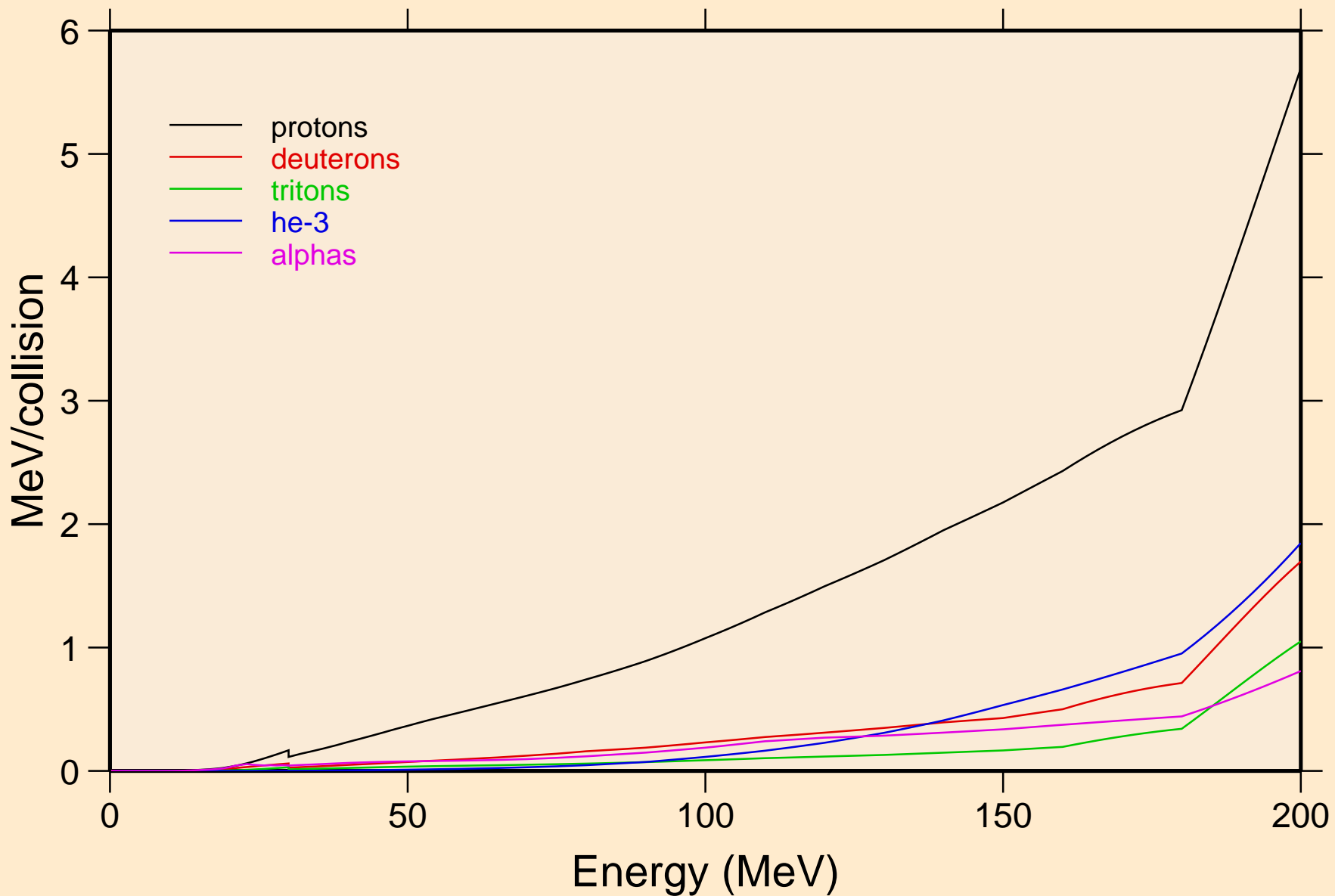


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14 MeV photon spectrum

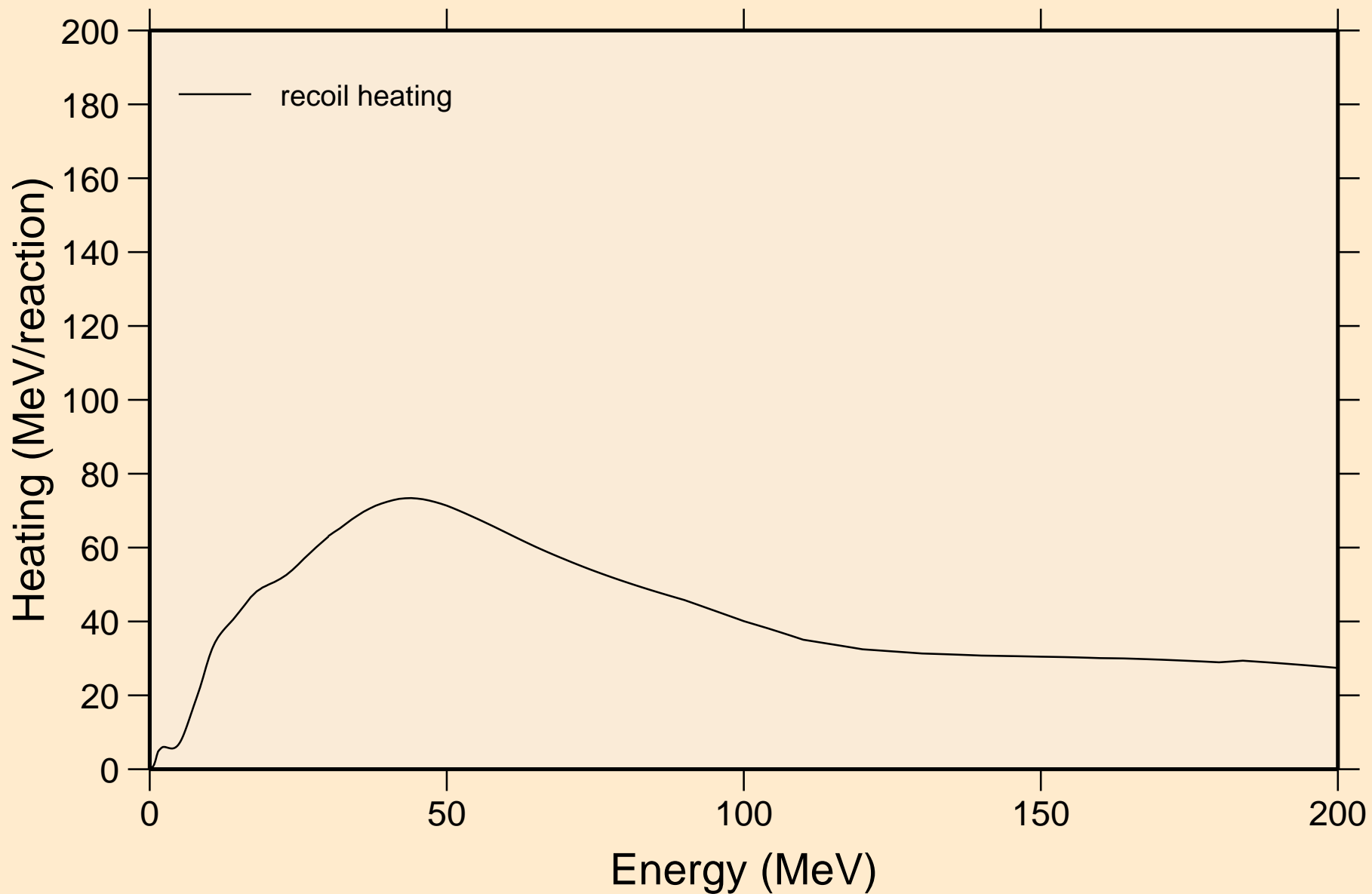


# CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle heating contributions

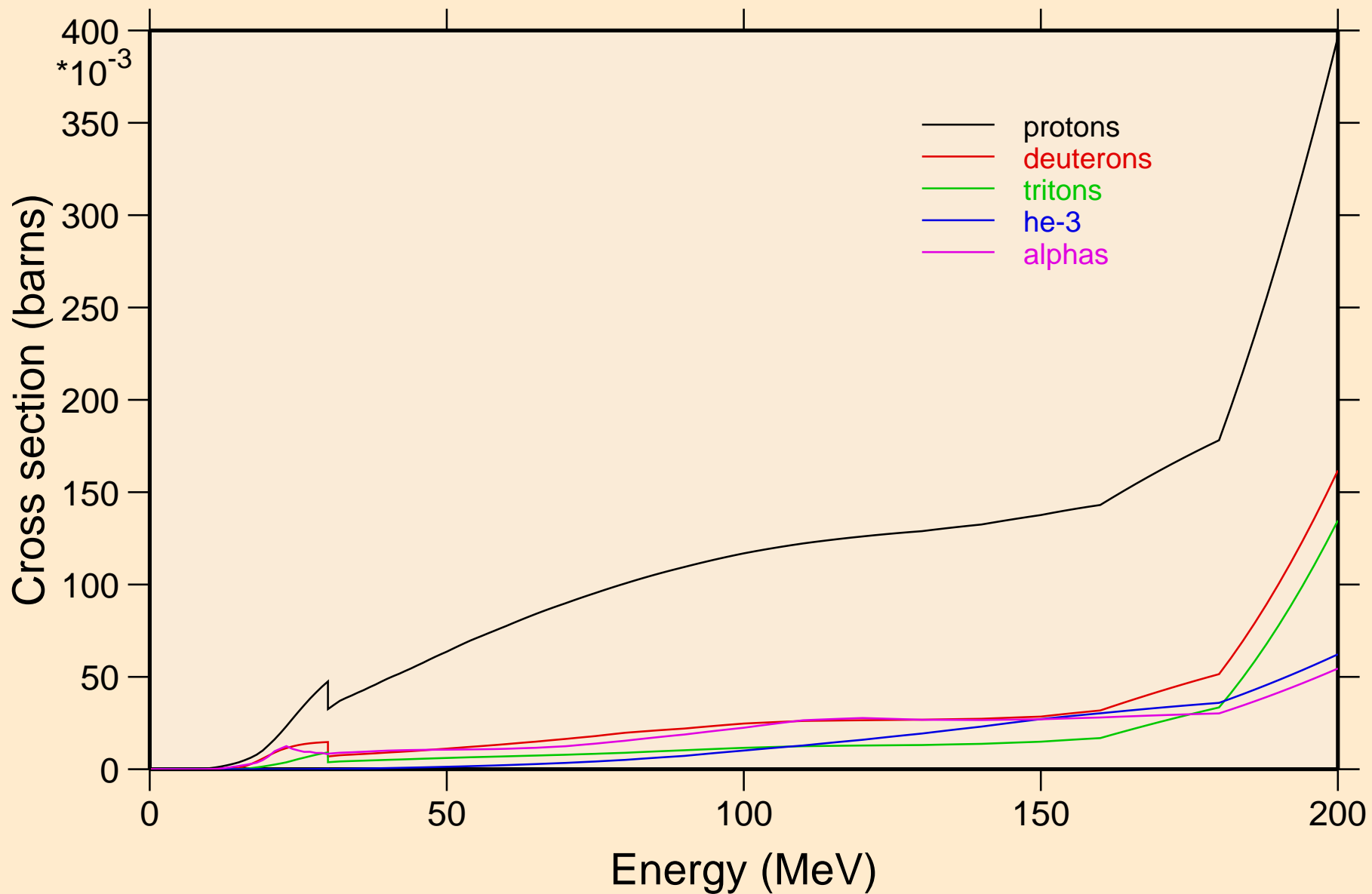


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating

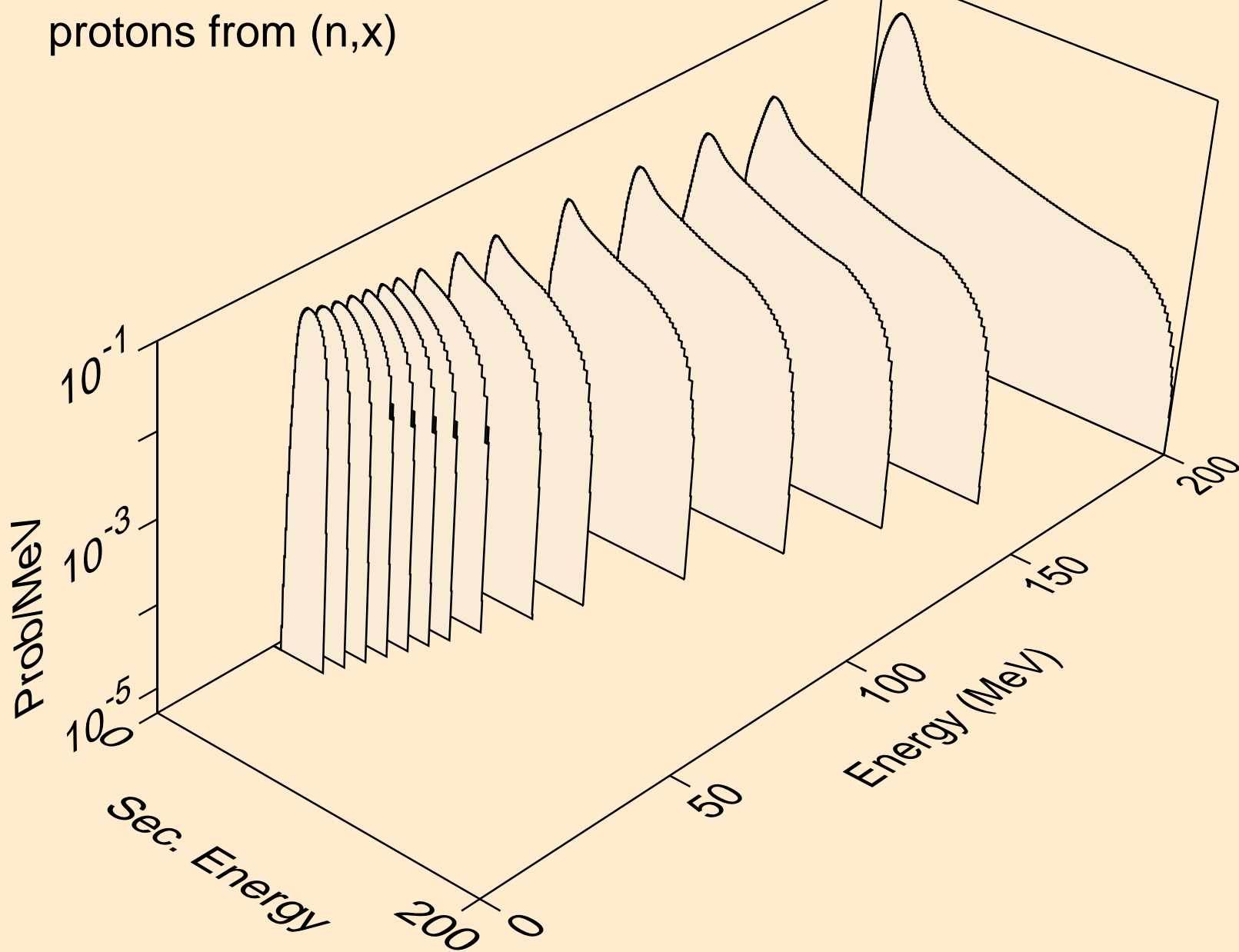


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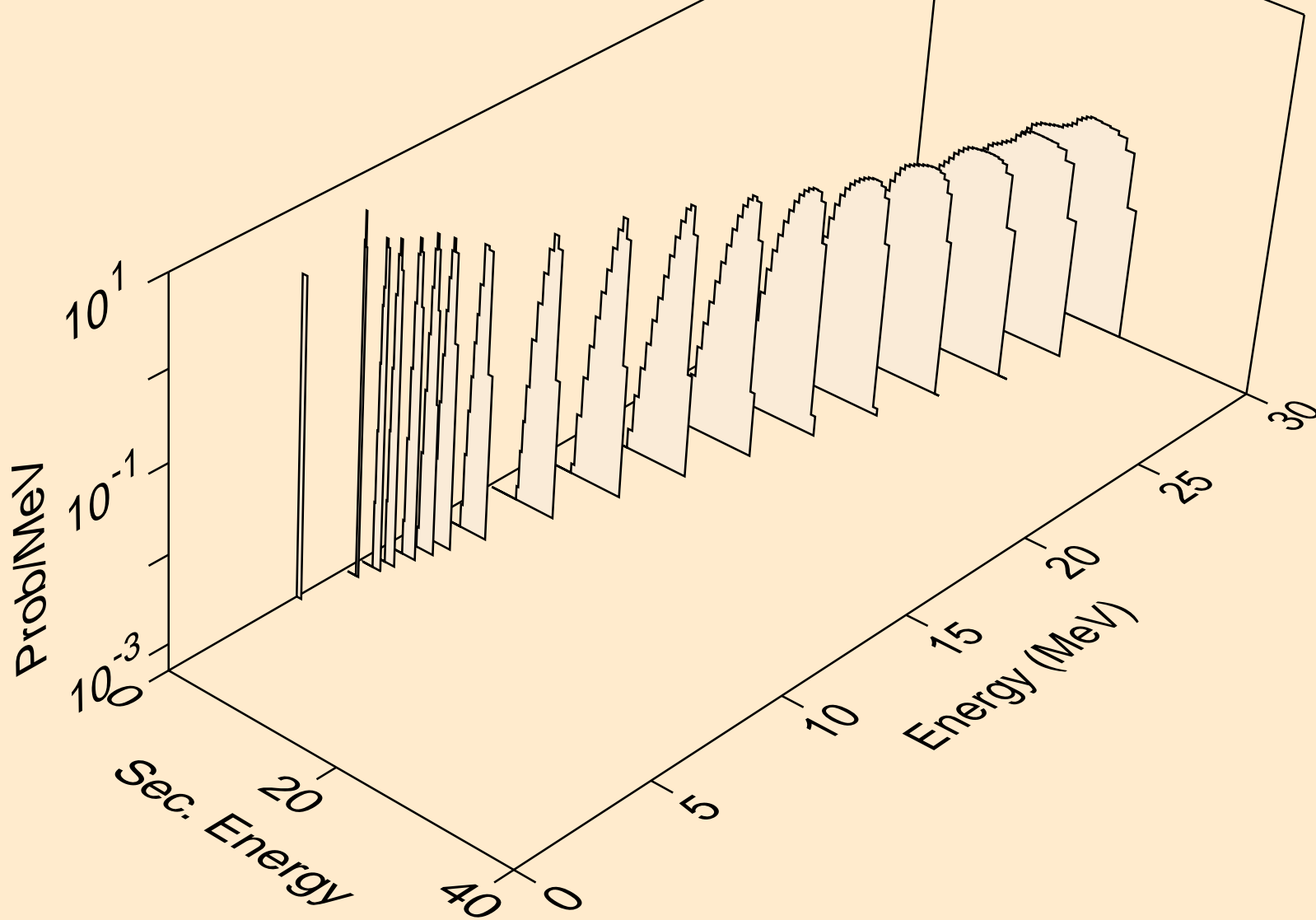
## Particle production cross sections



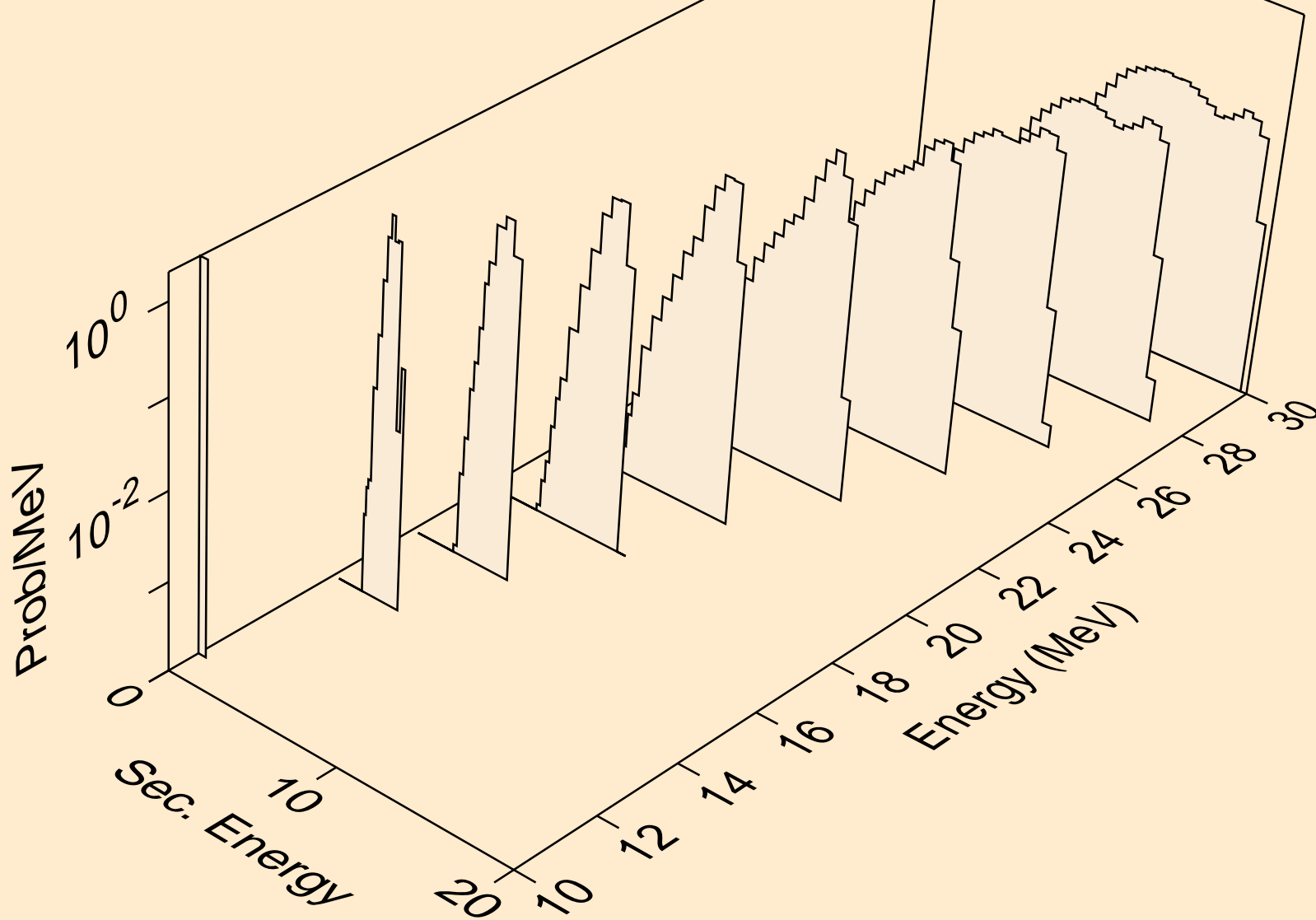
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protons from (n,x)



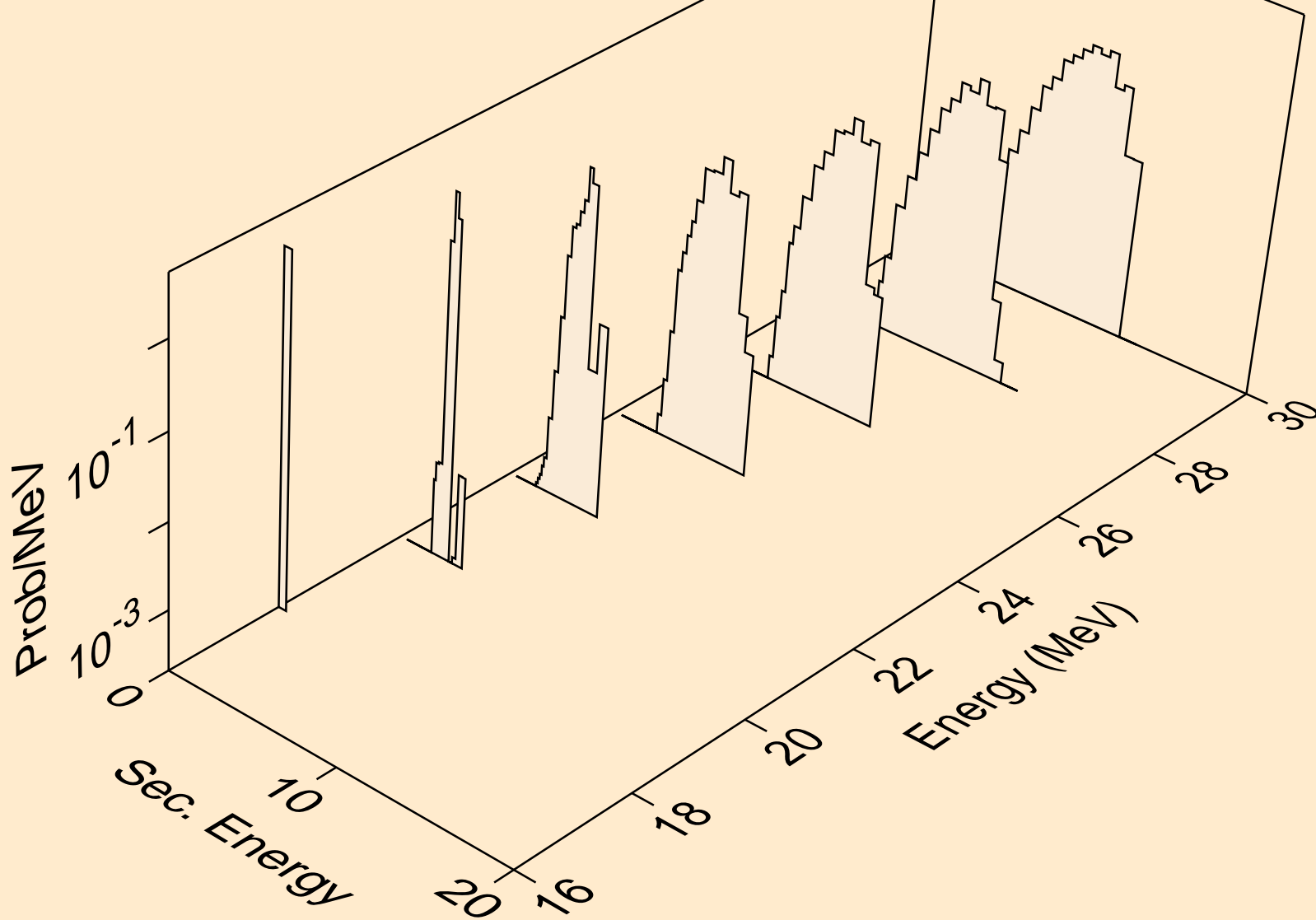
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protons from (n,n\*)p



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)

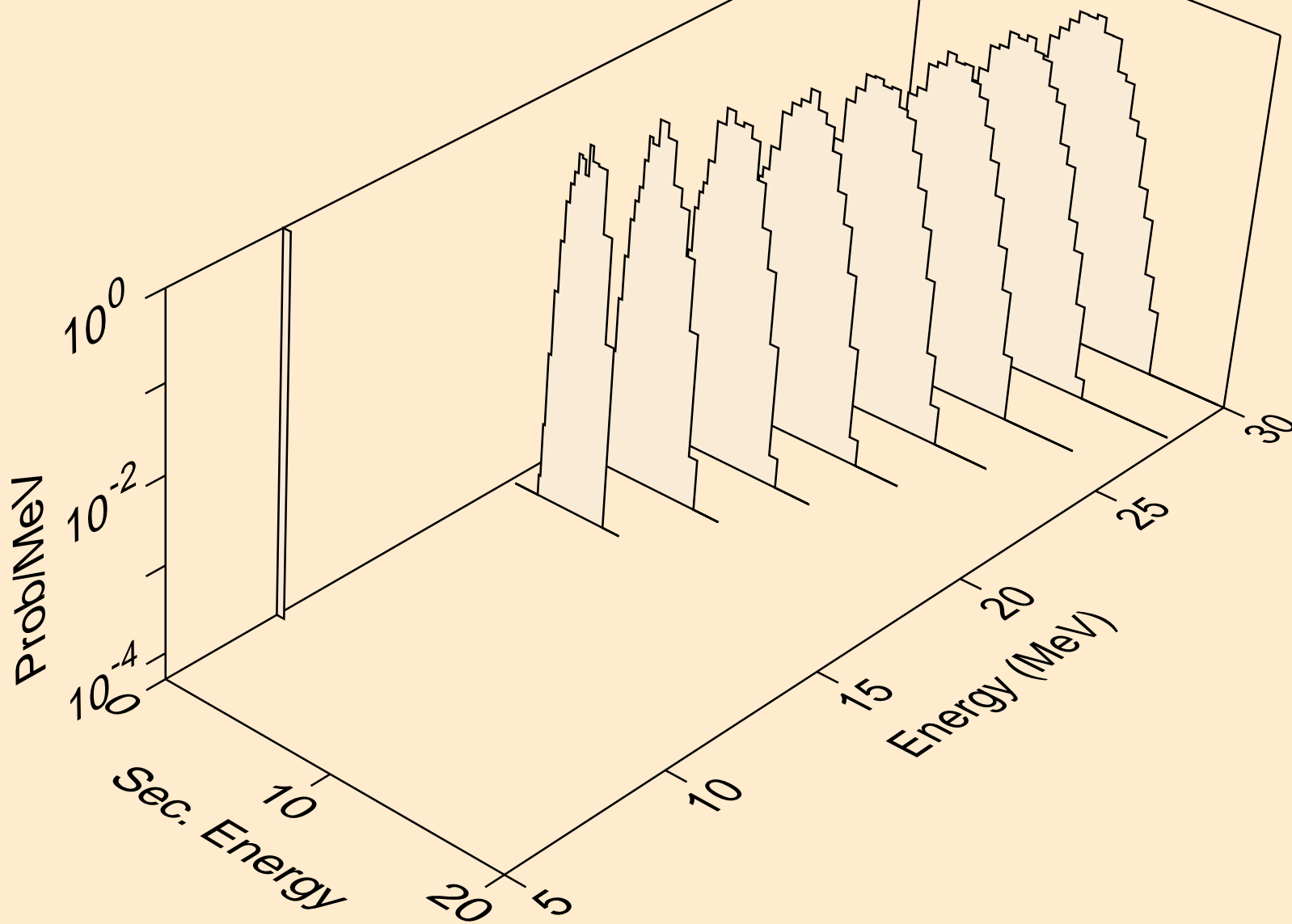


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protons from (n,3np)

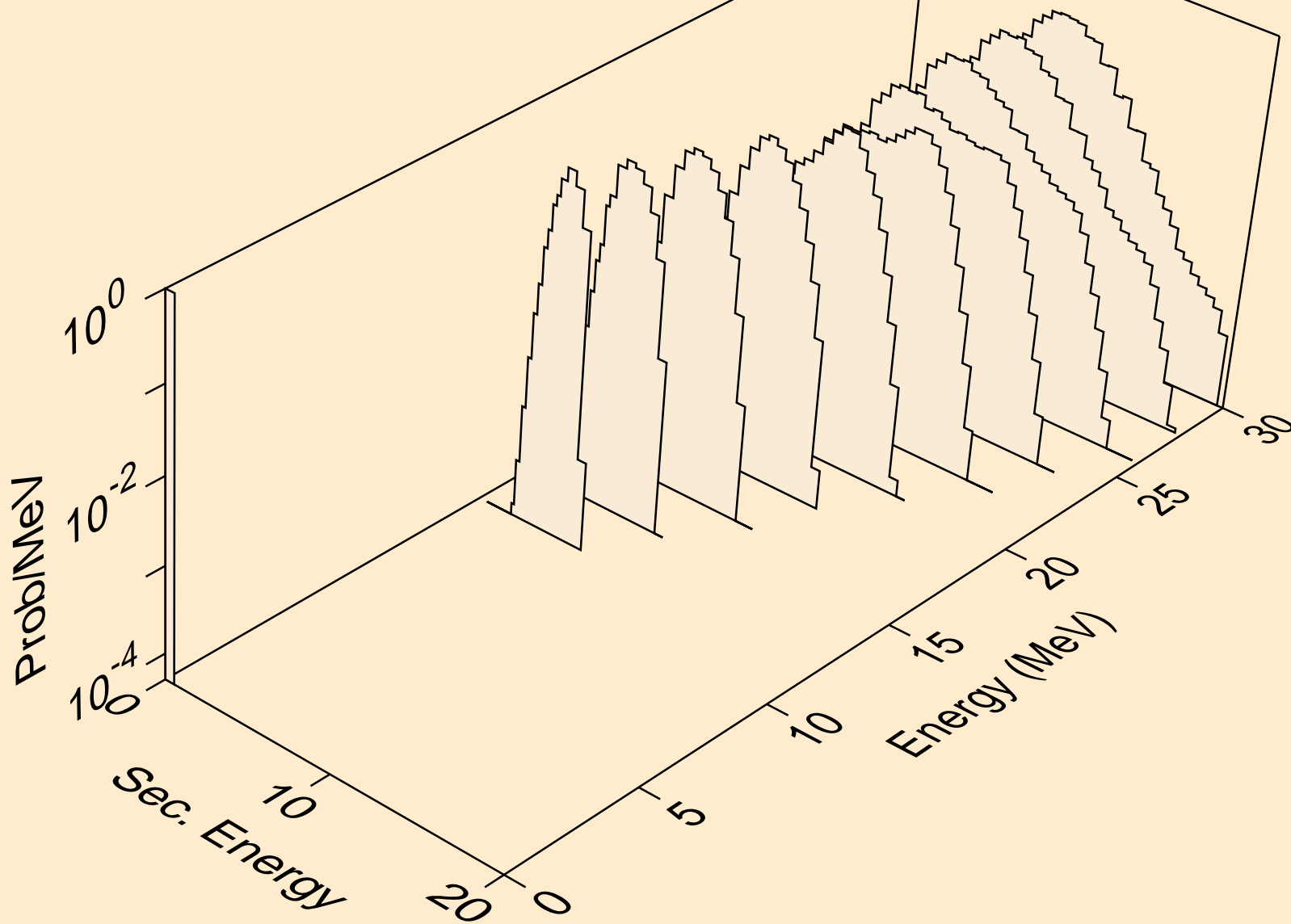




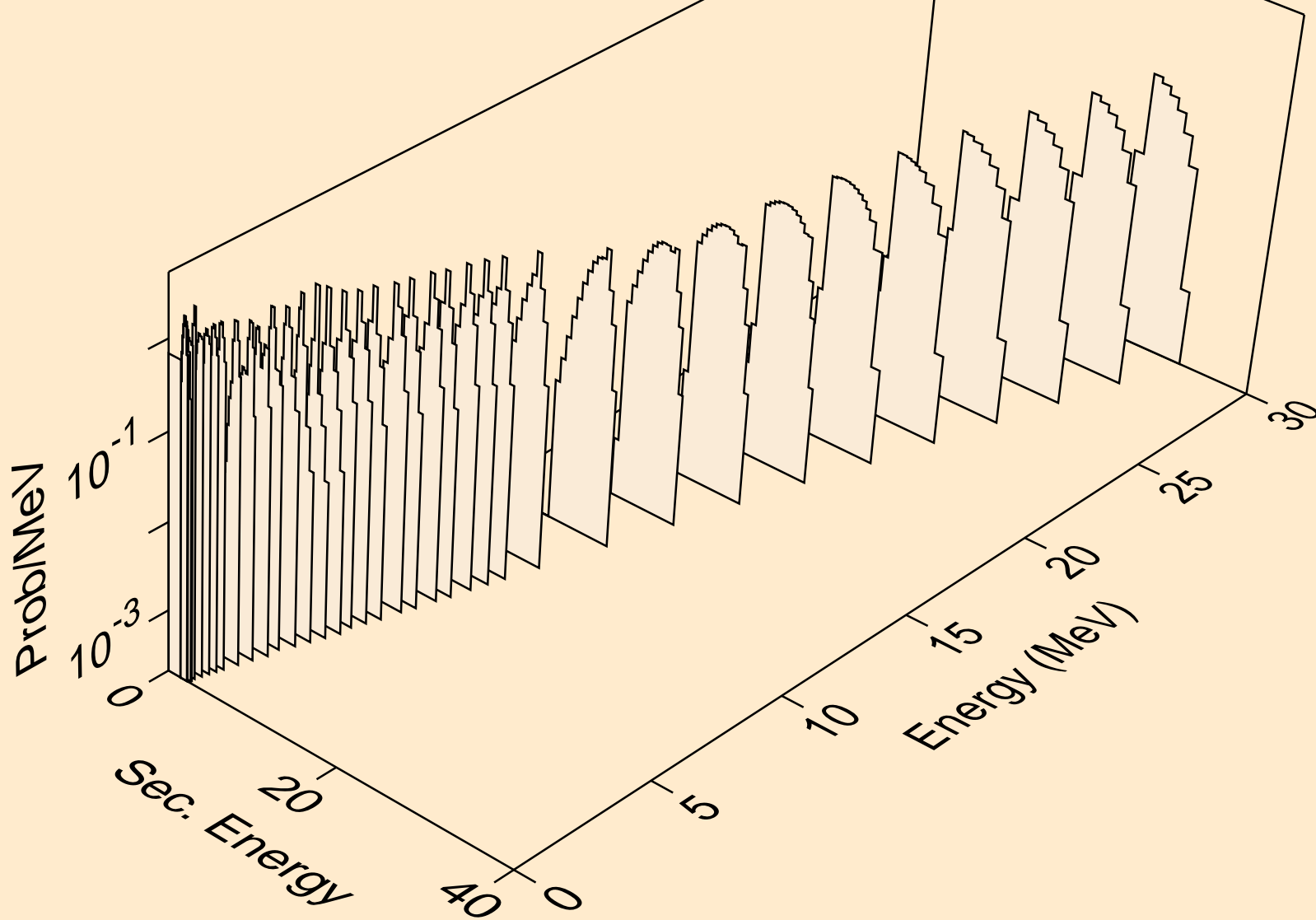
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protons from (n,2np)



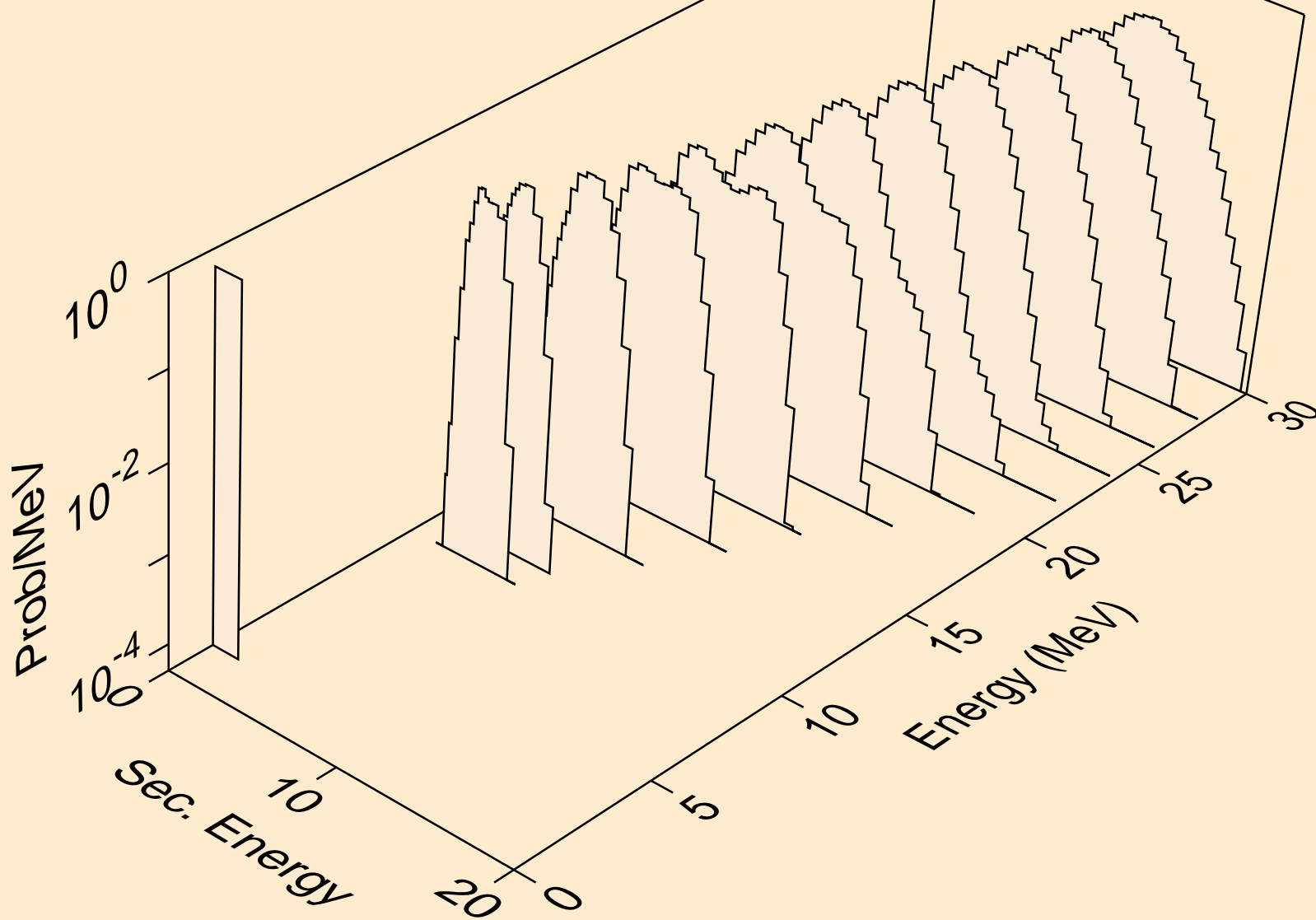
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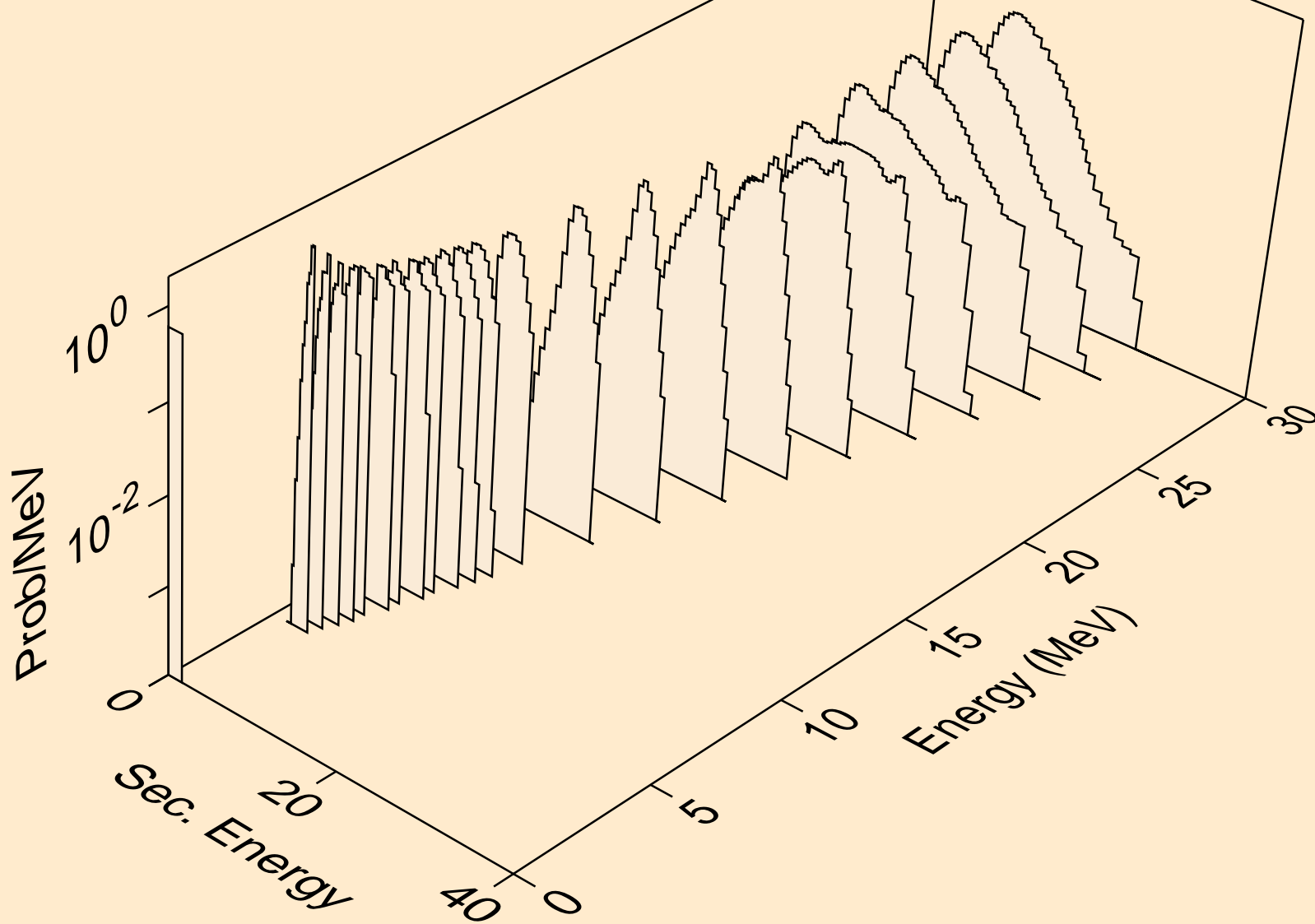
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protons from (n,p)



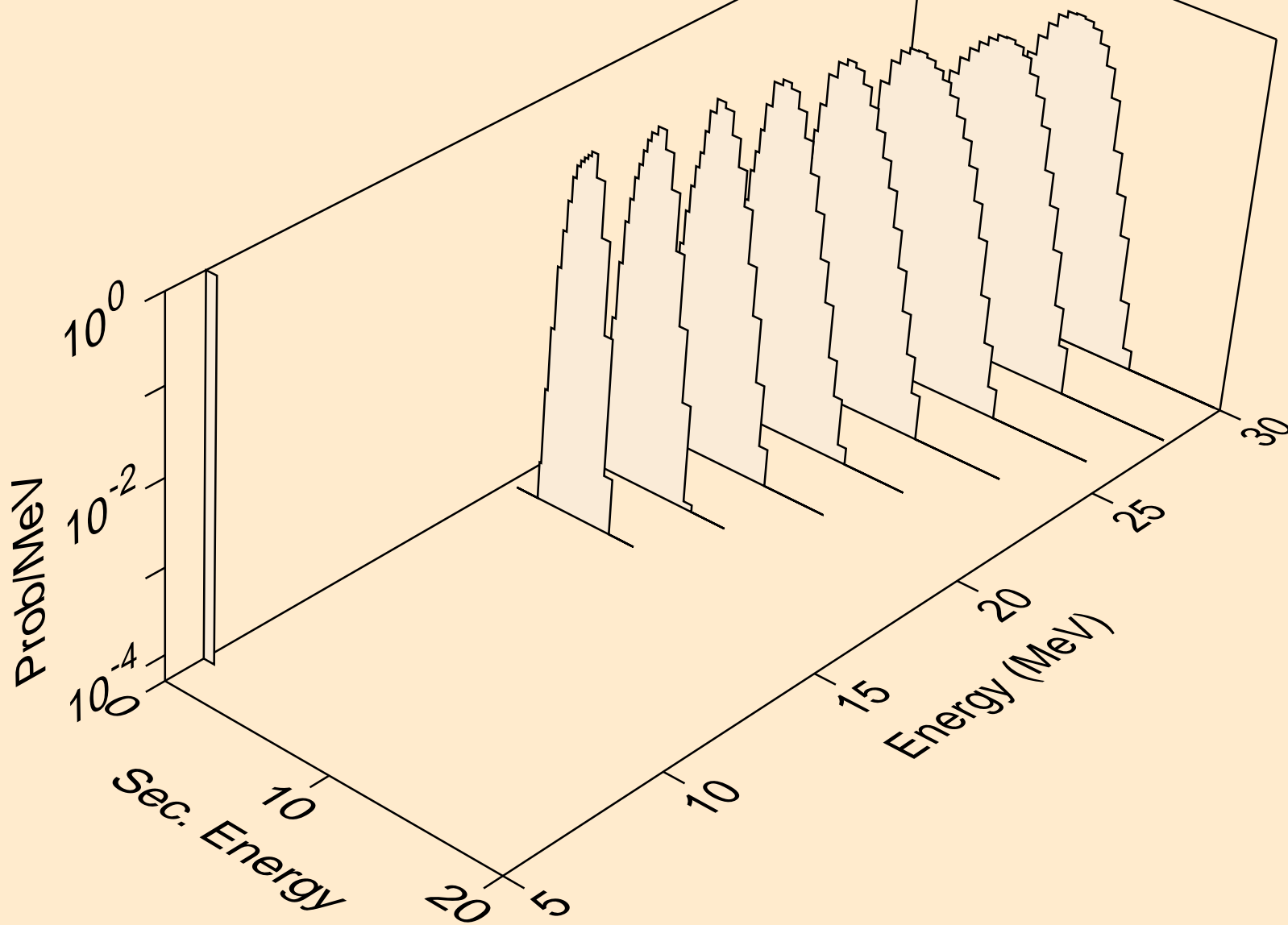
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protons from (n,2p)



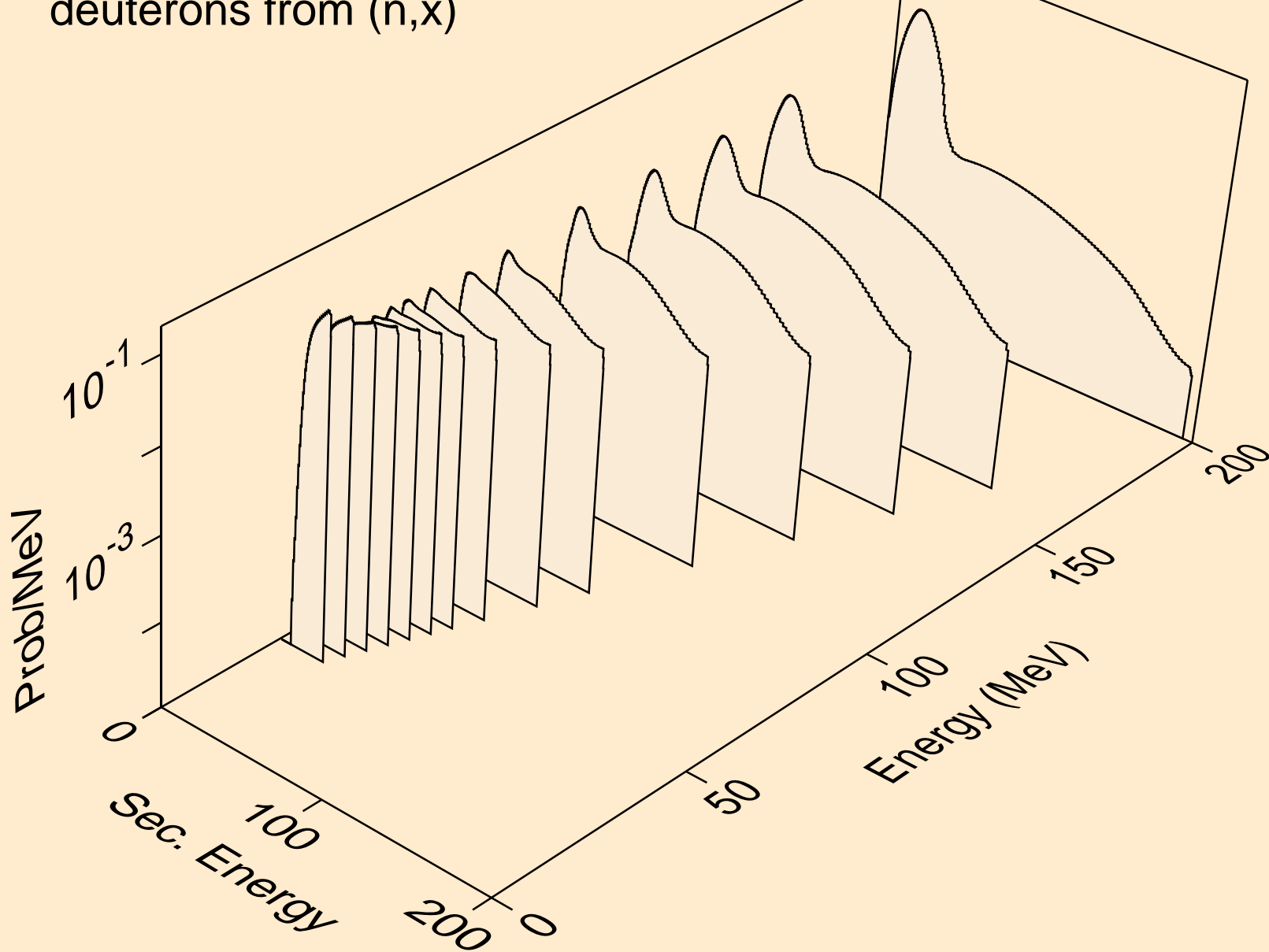
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protons from (n,p)



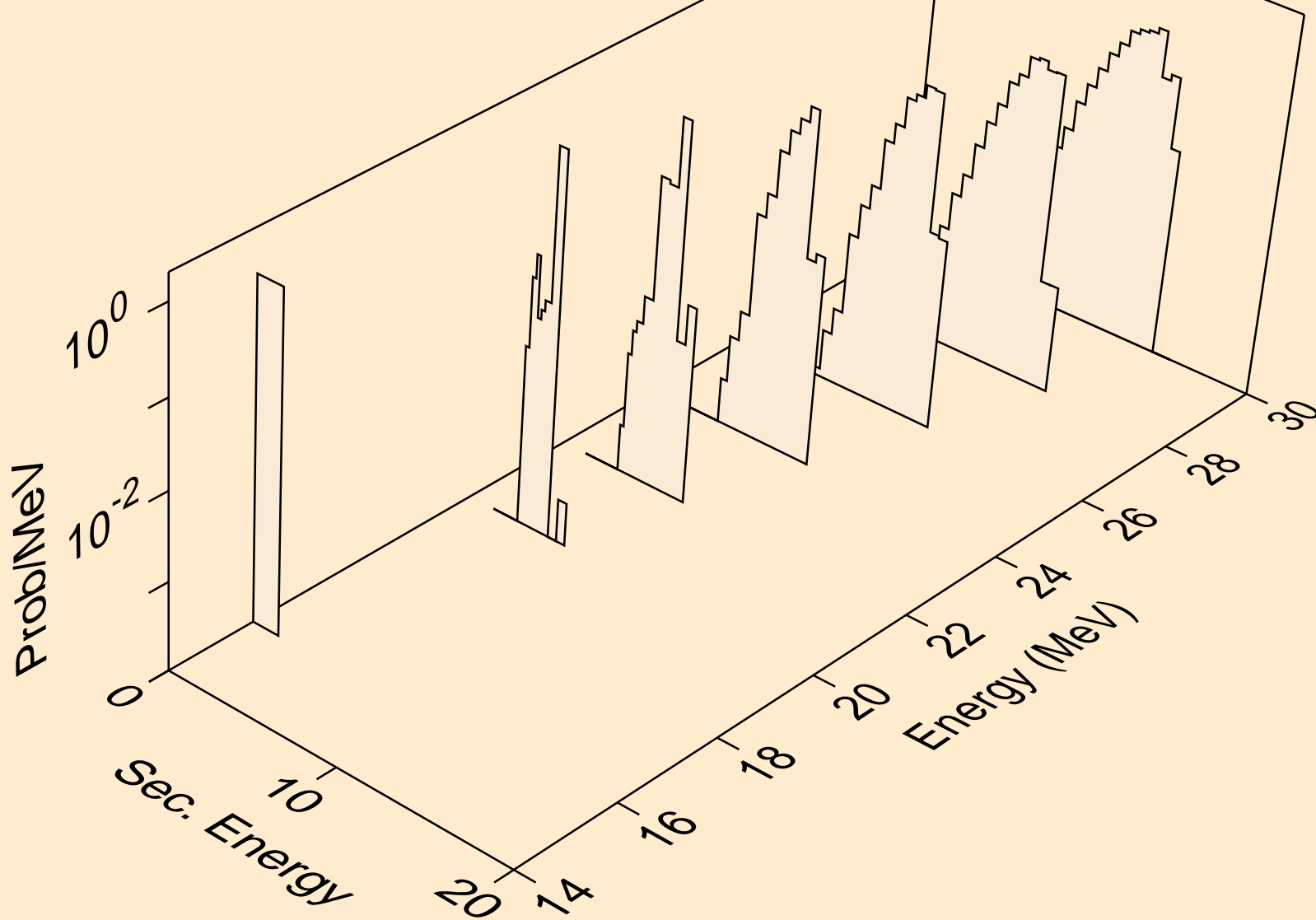
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protons from (n,pd)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)

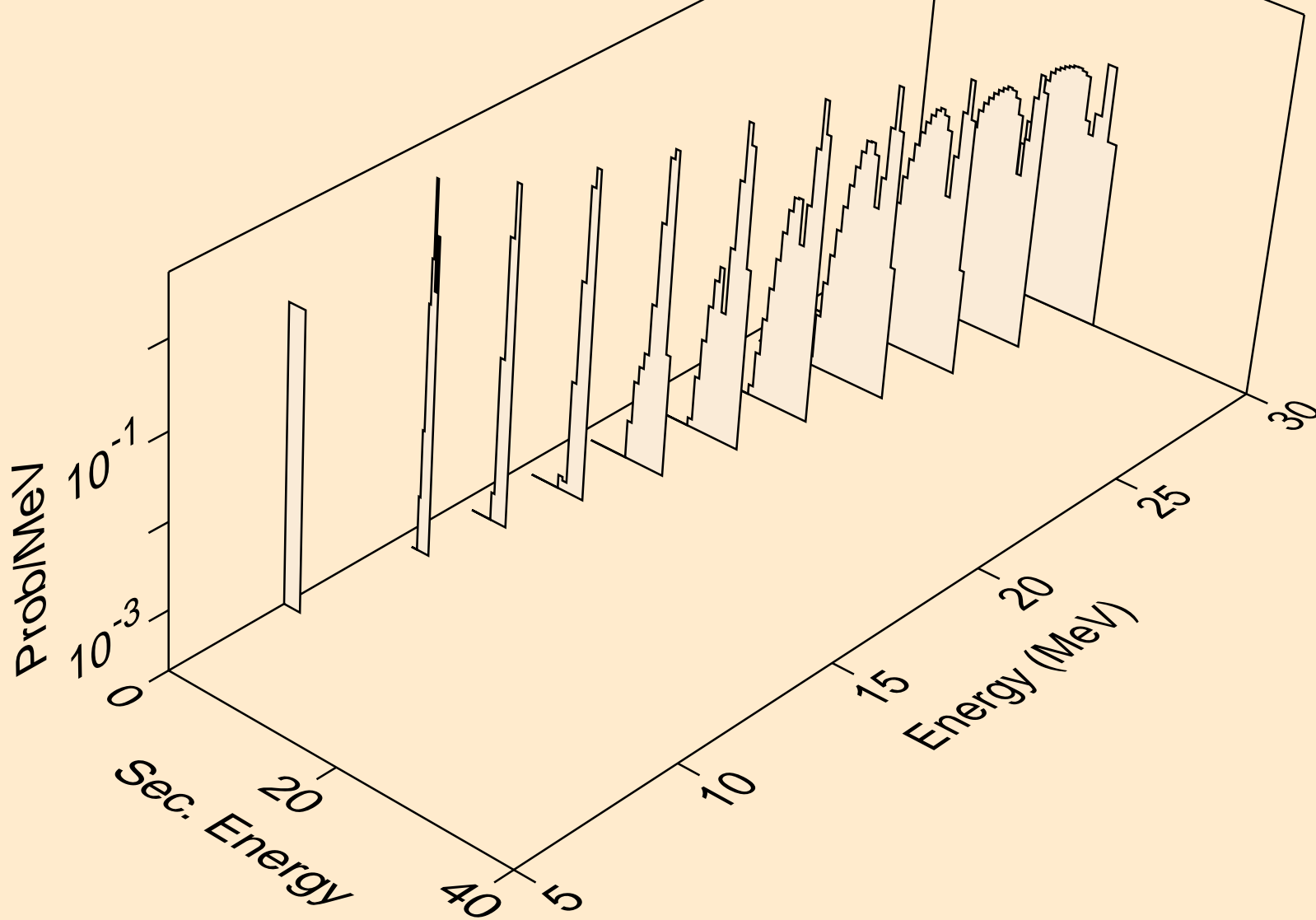


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deuterons from (n,2nd)

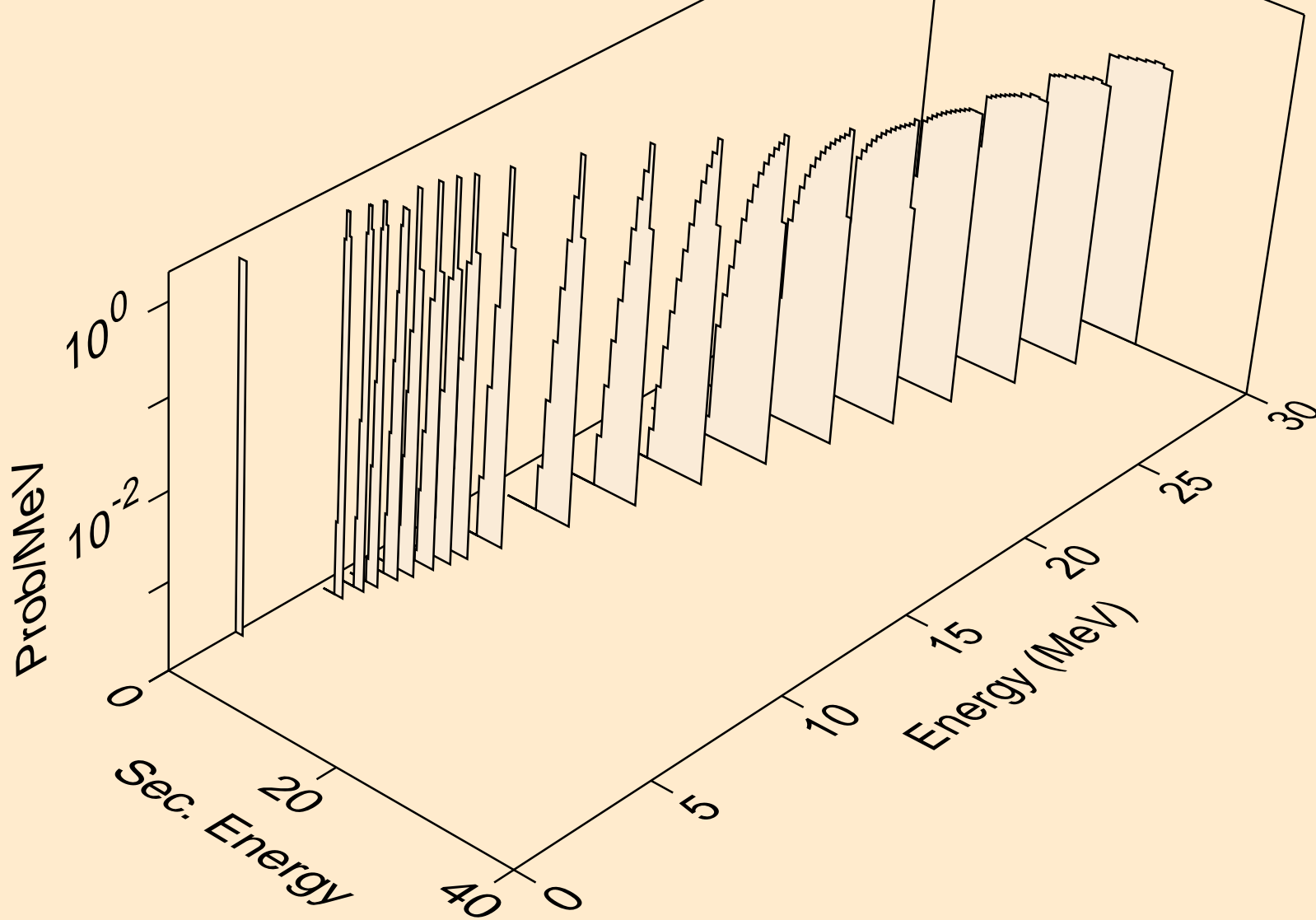




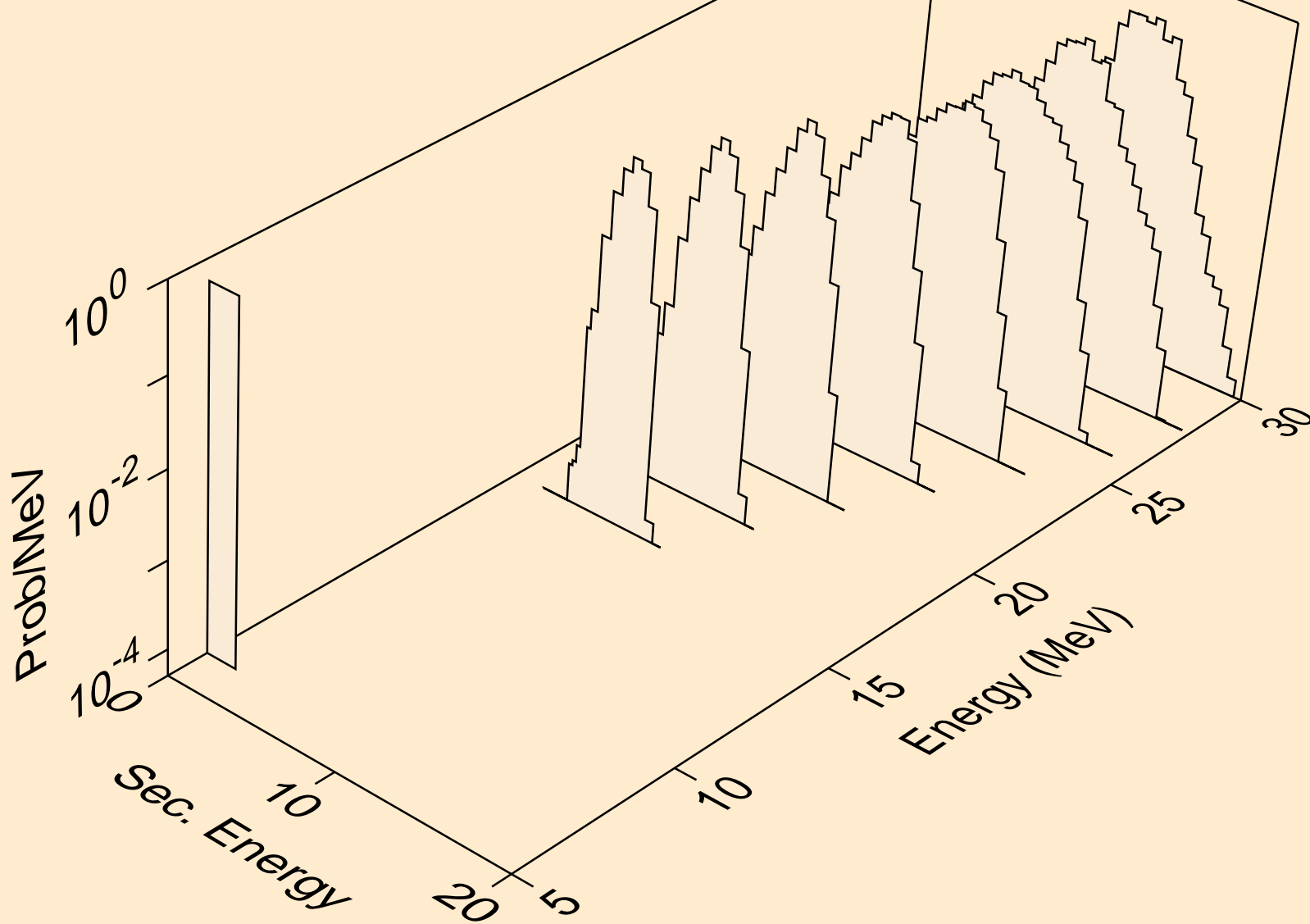
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deuterons from (n,n\*)d



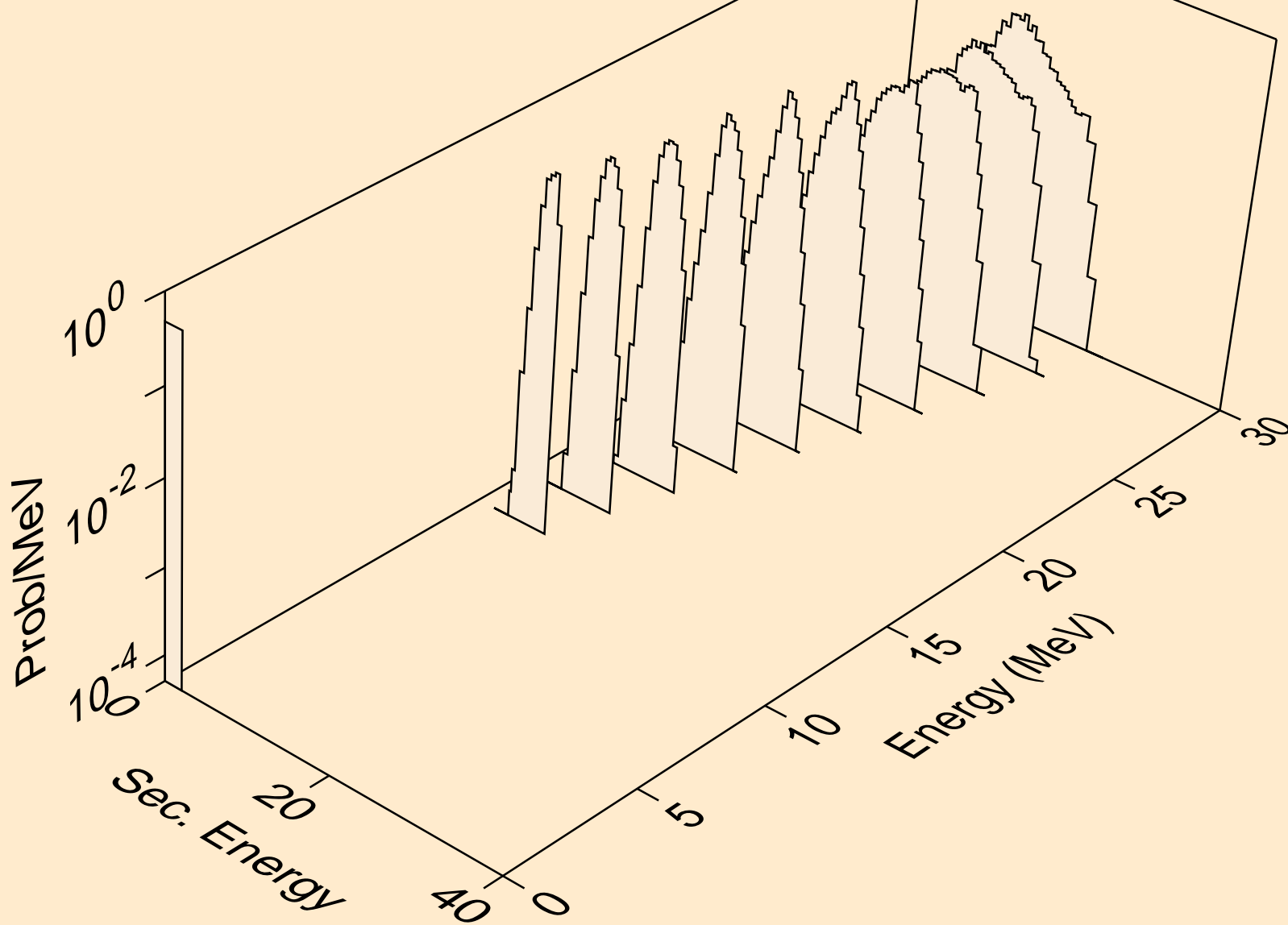
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deuterons from (n,d)



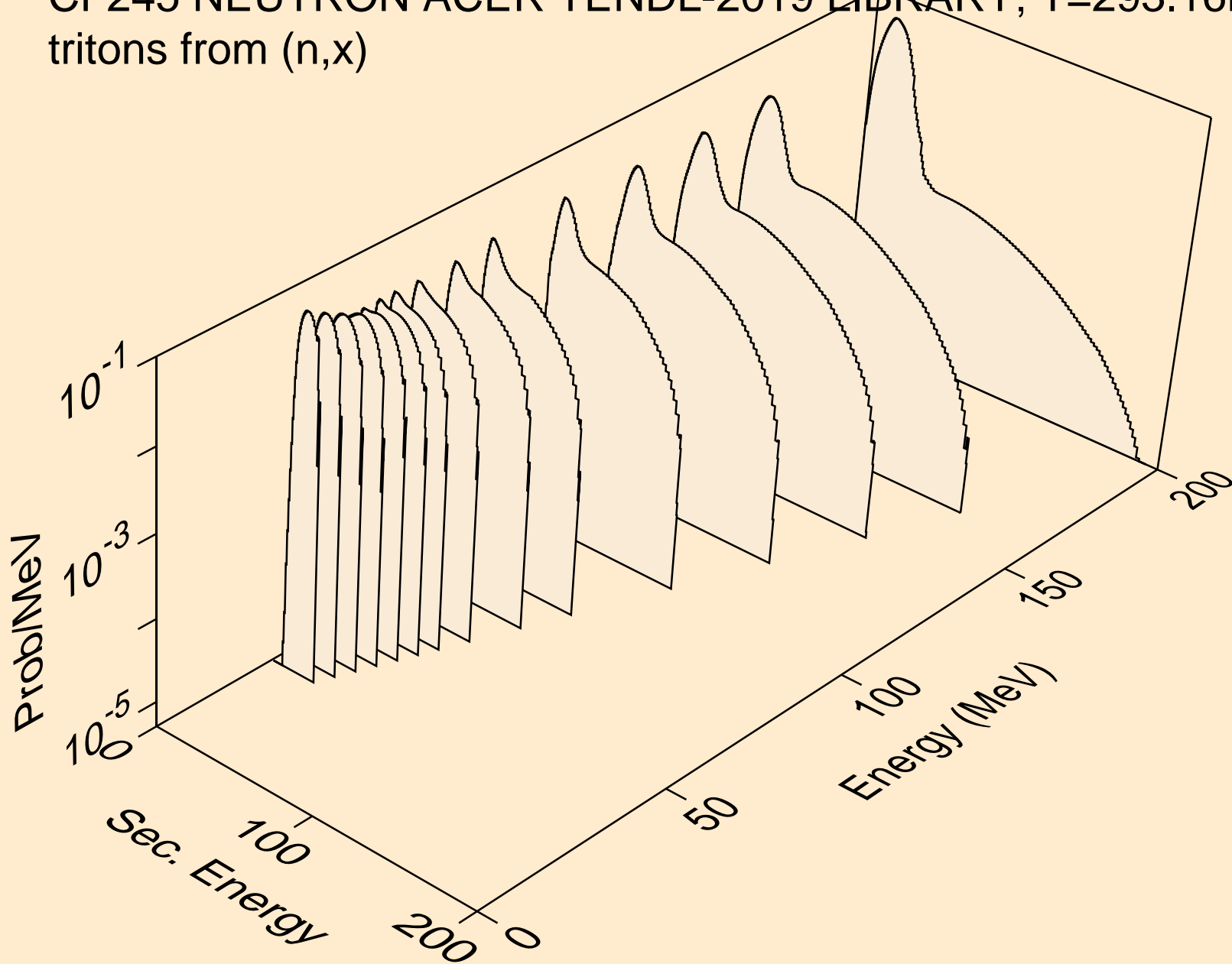
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deuterons from (n,pd)



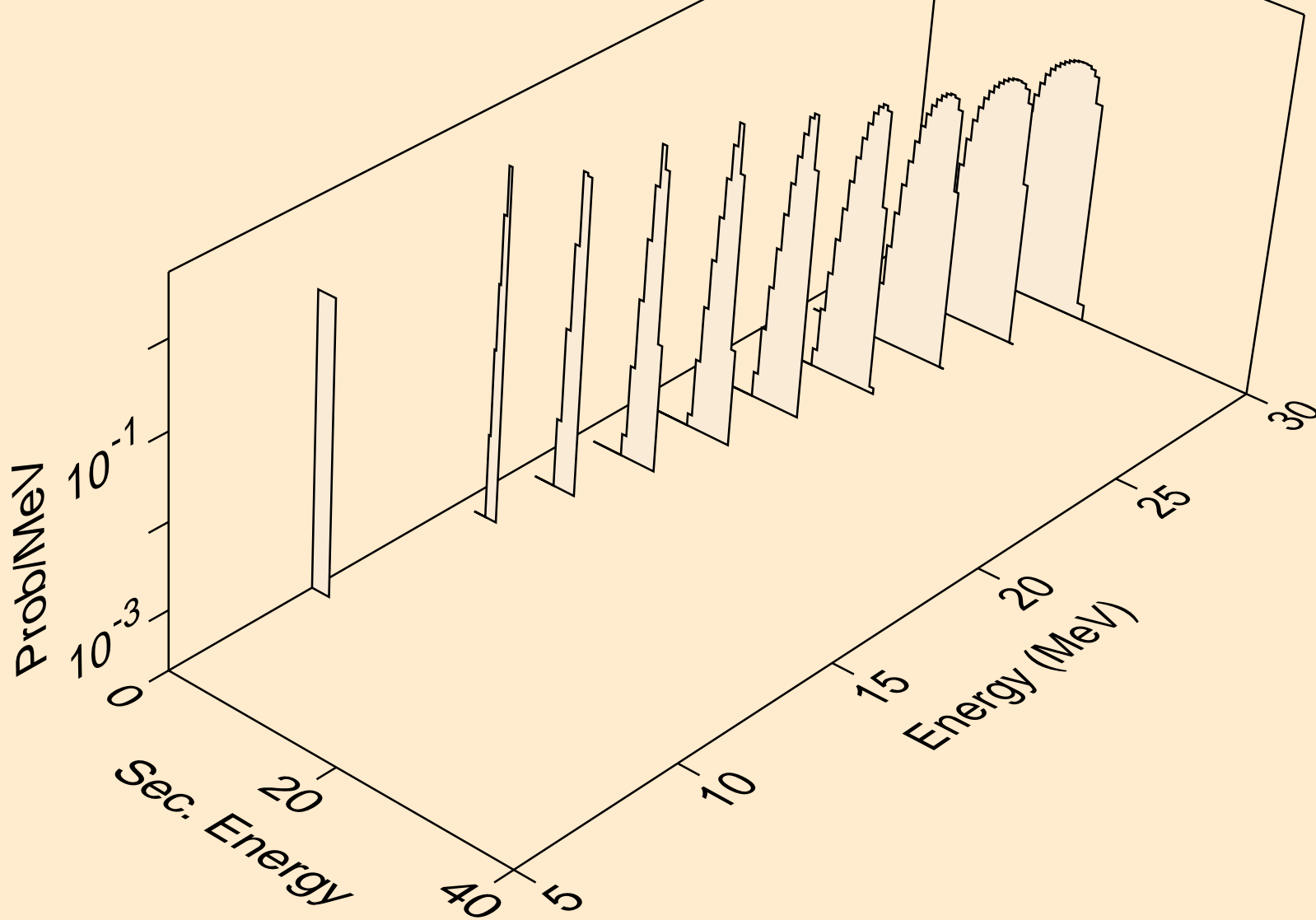
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deuterons from (n,da)



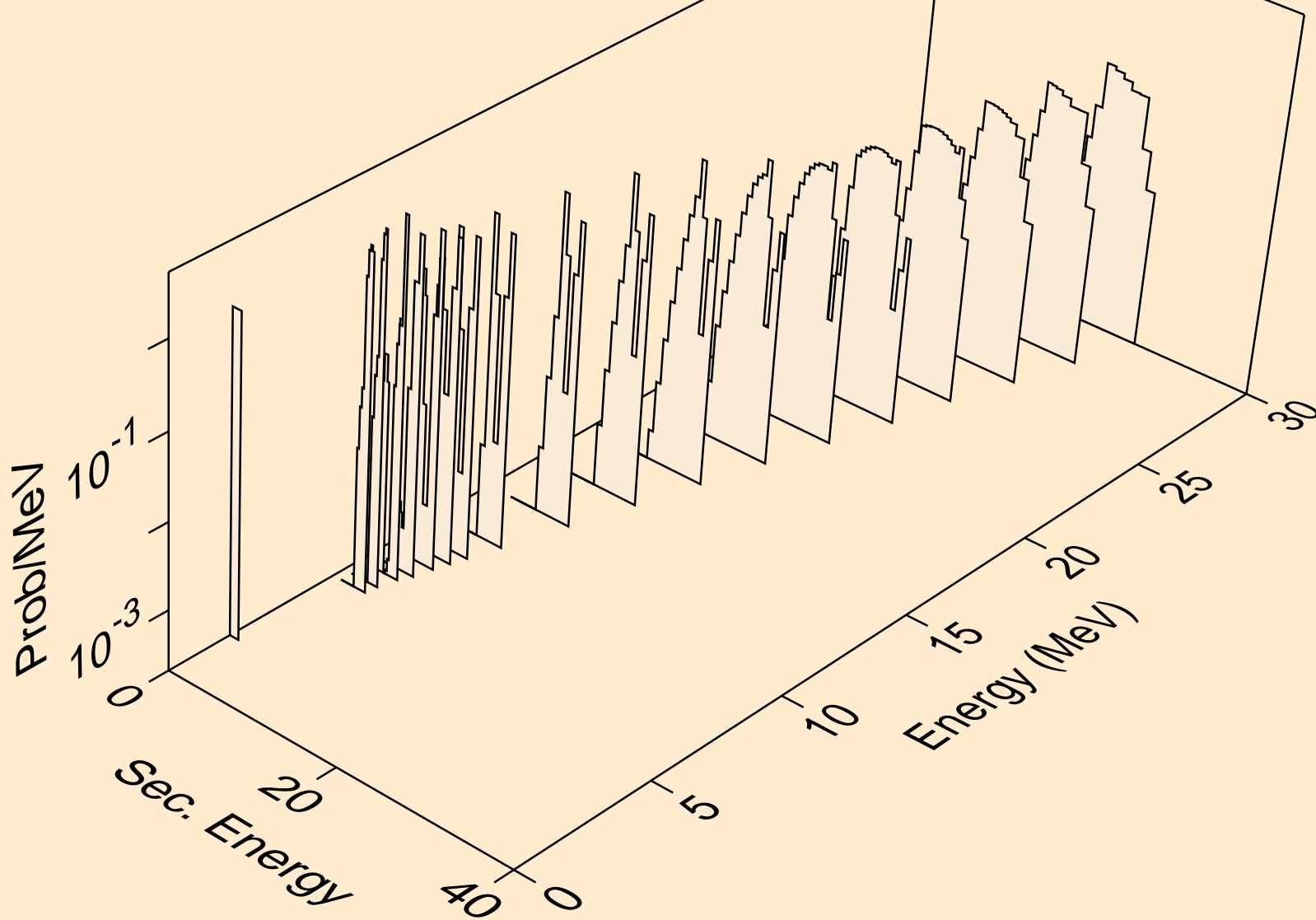
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tritons from (n,x)



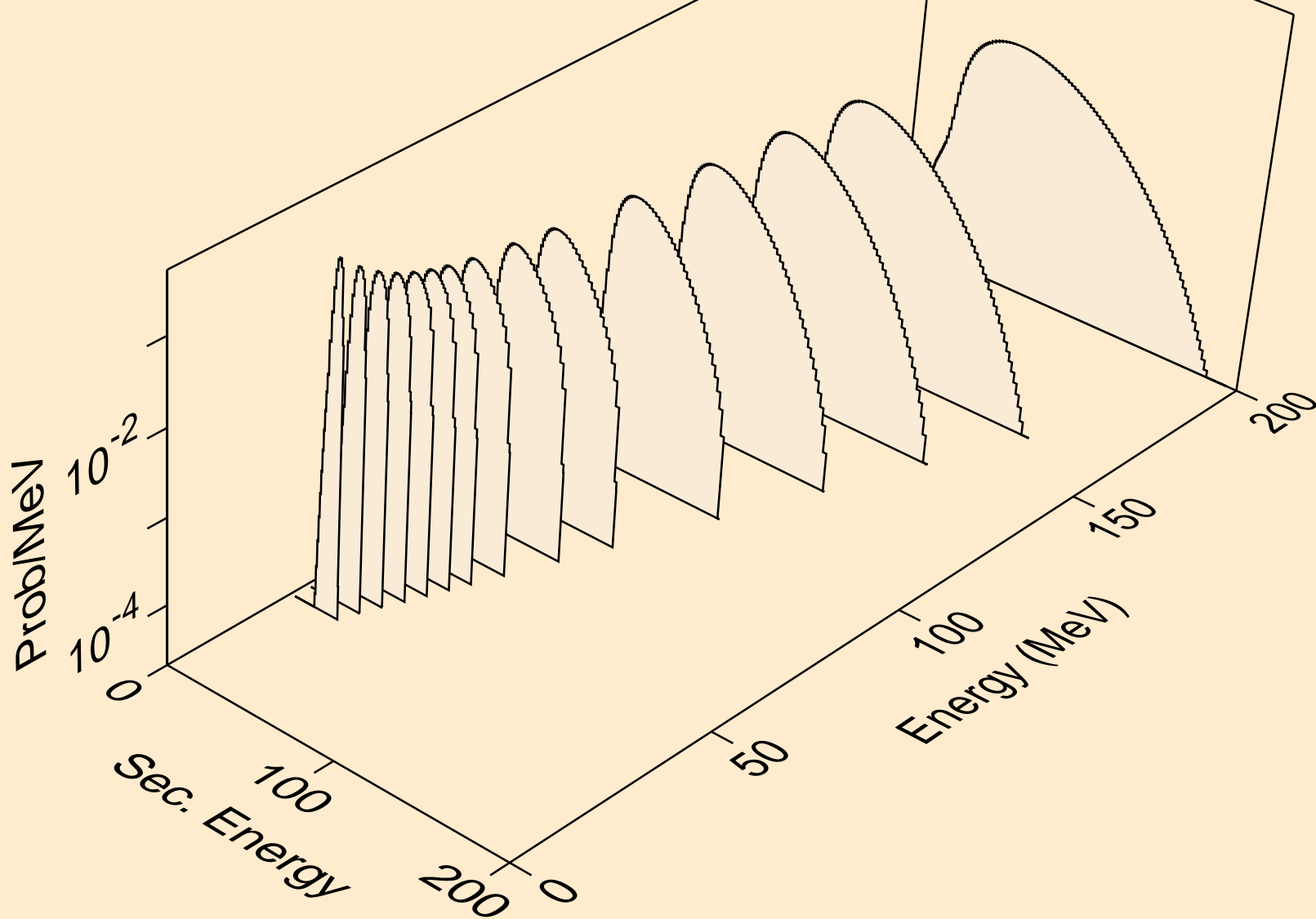
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)

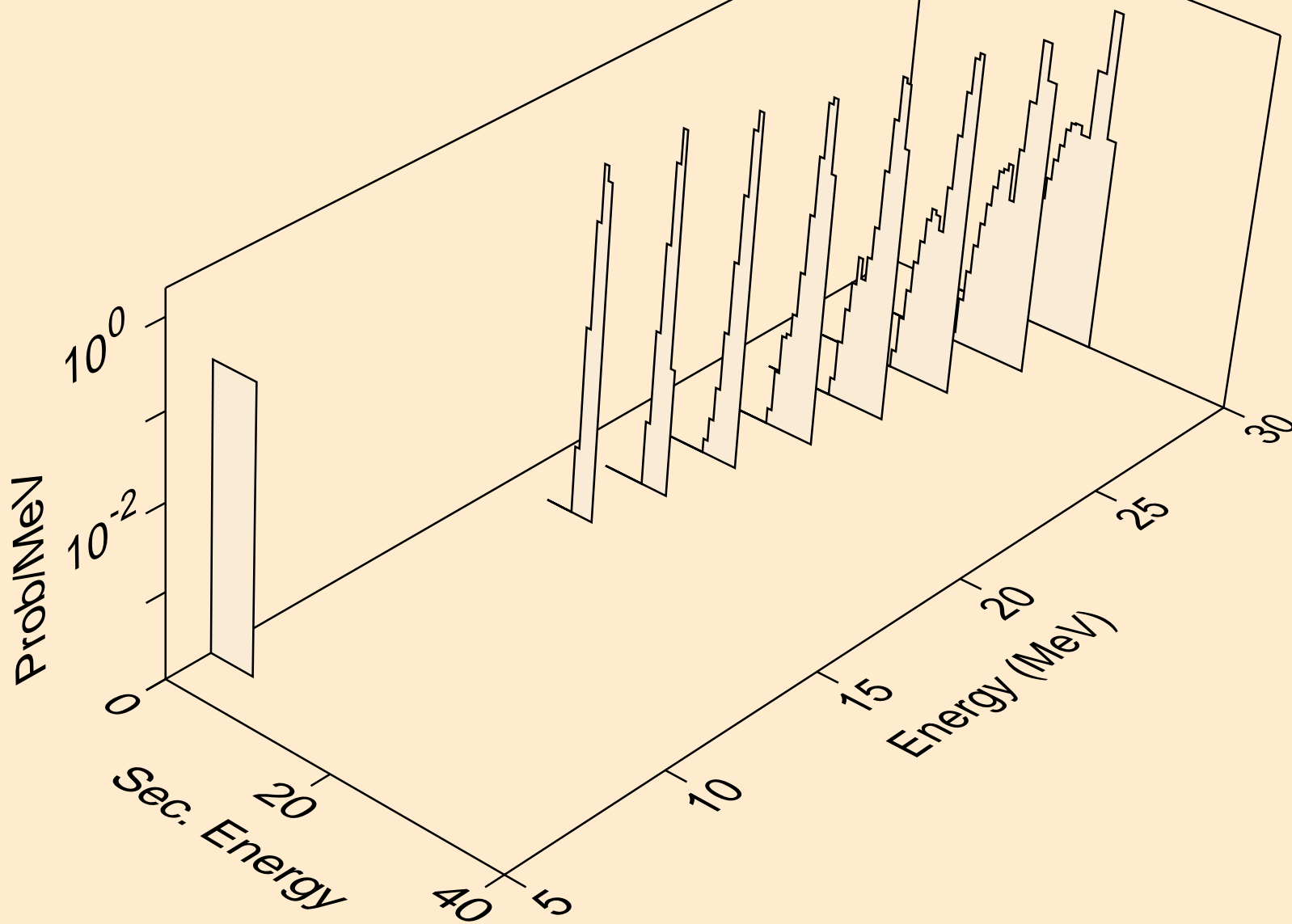


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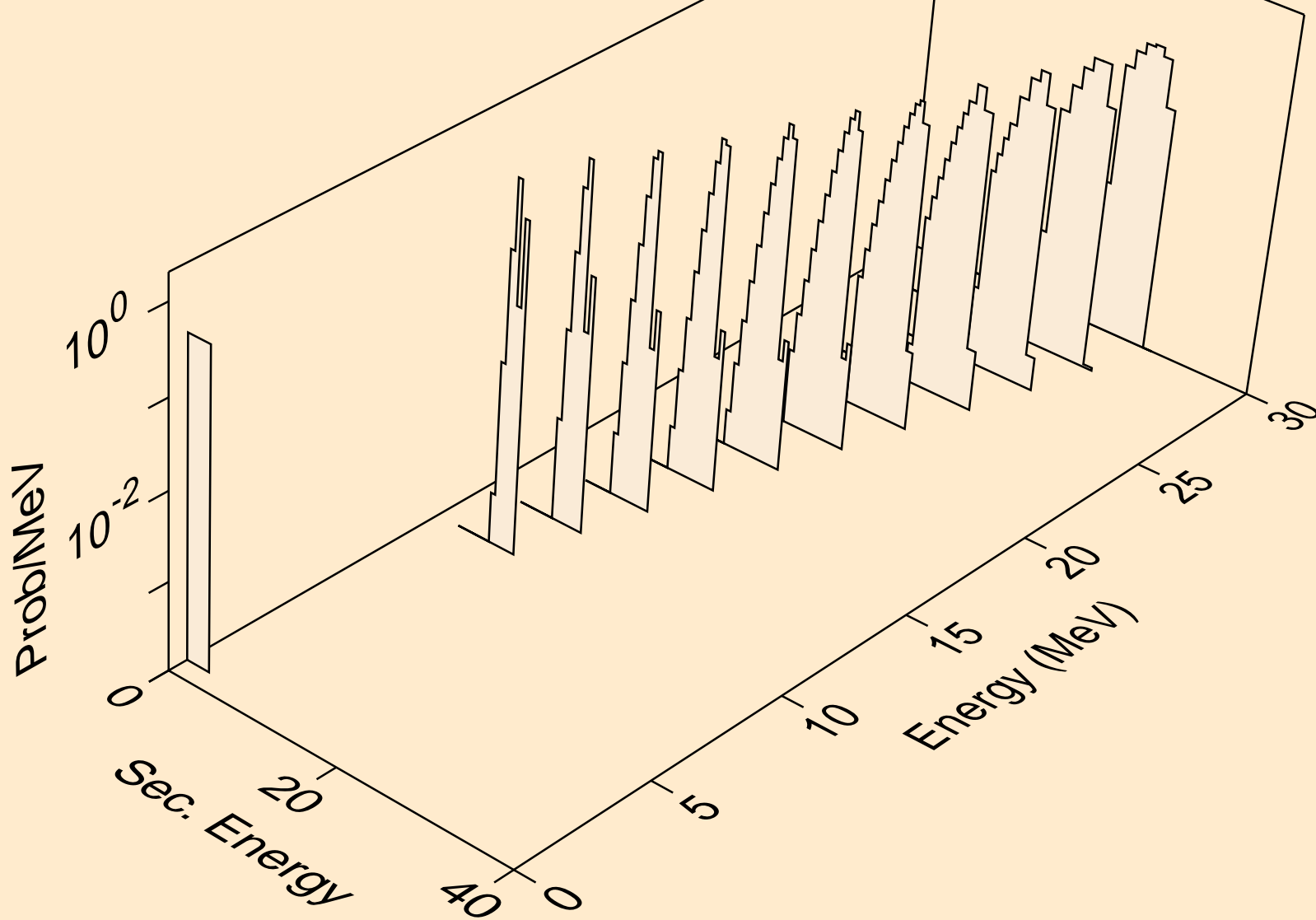




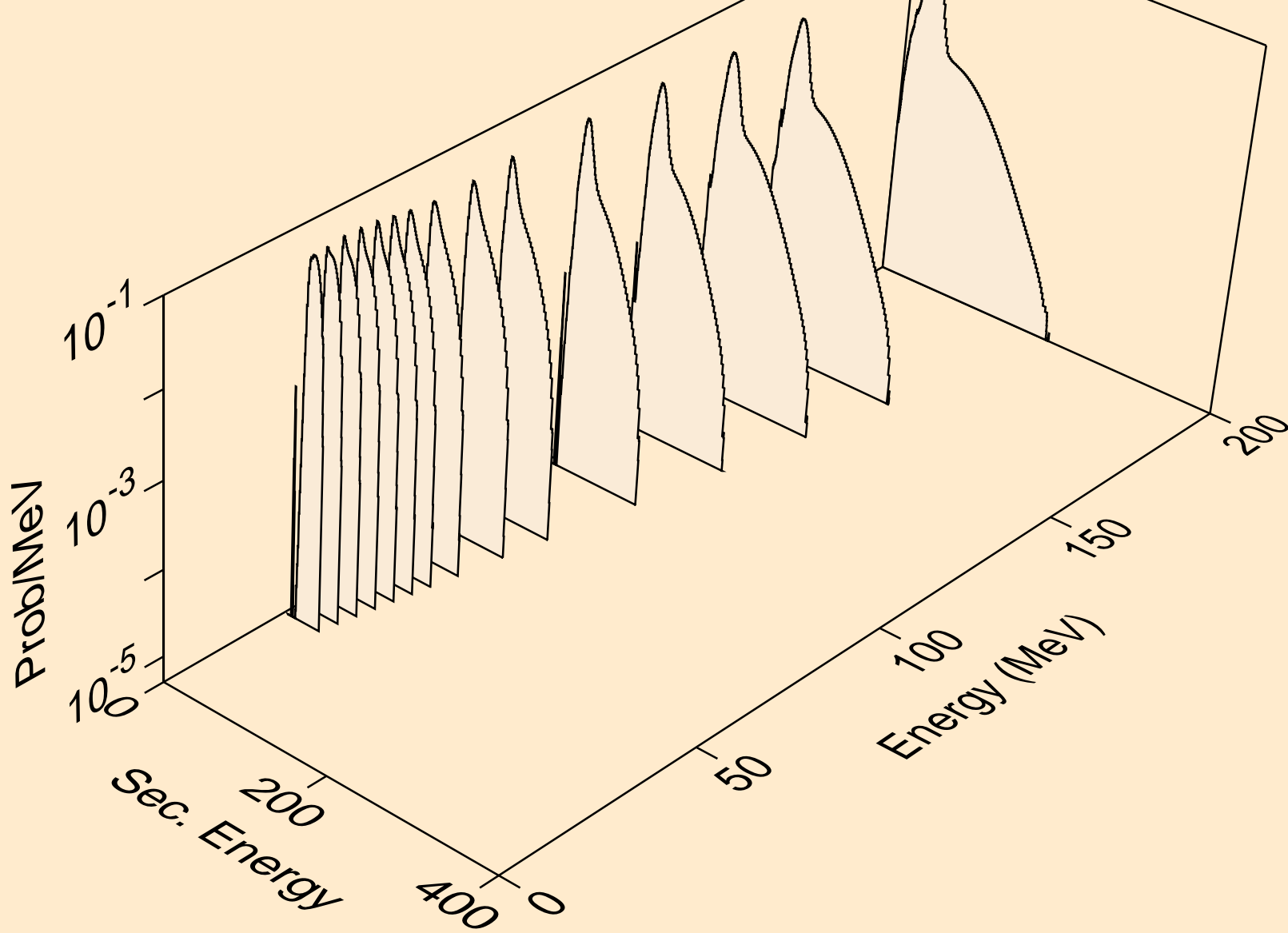
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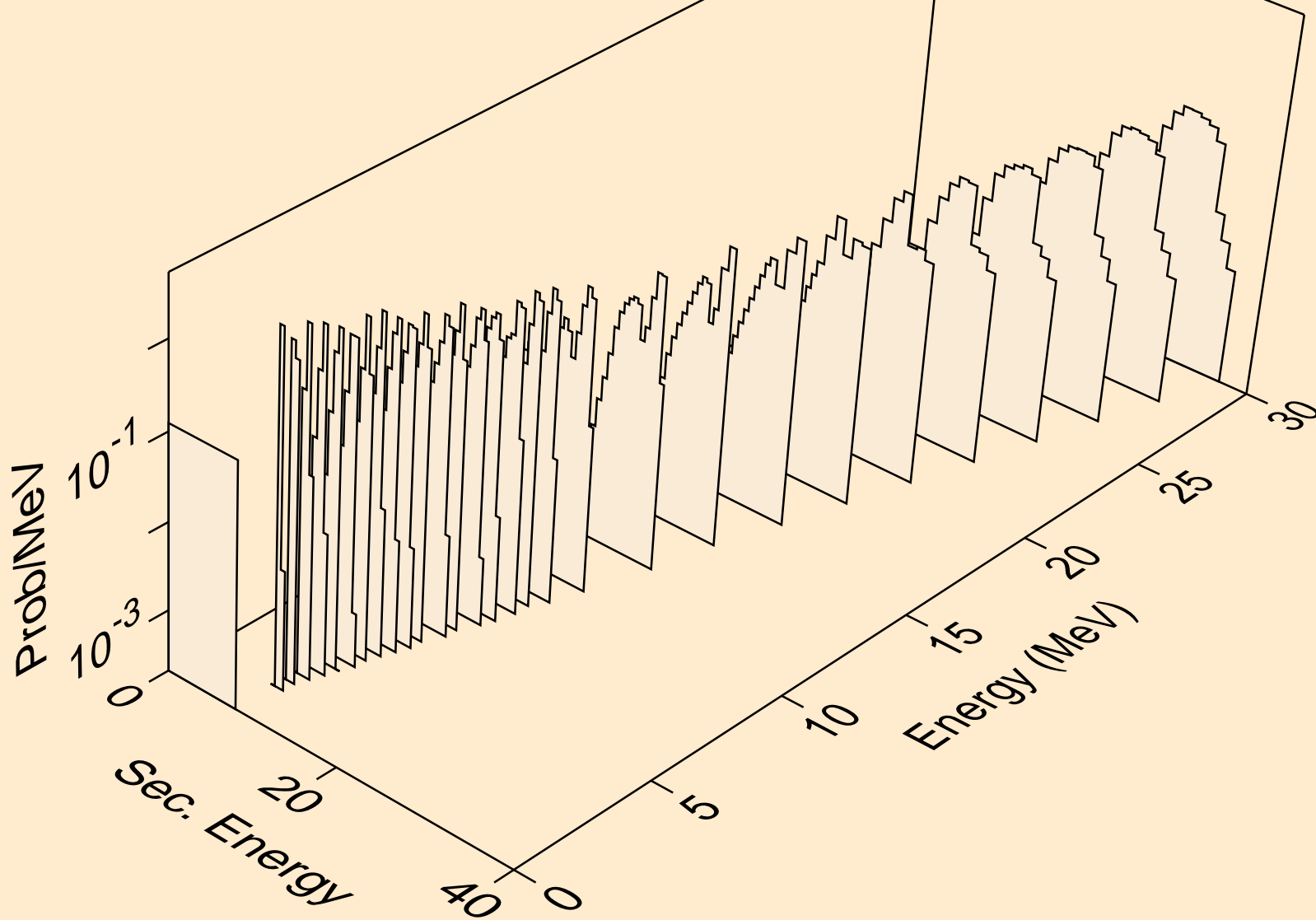
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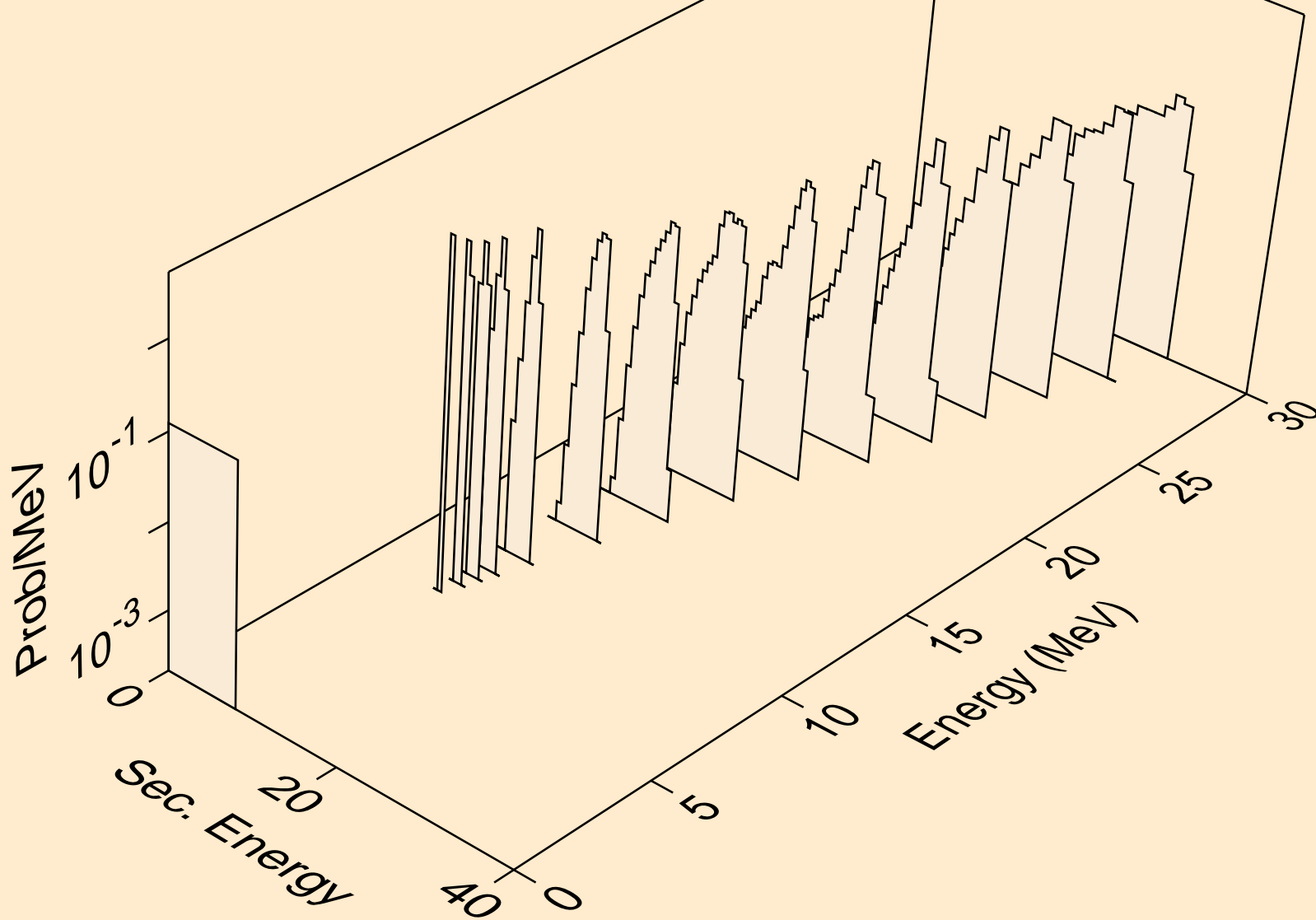
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



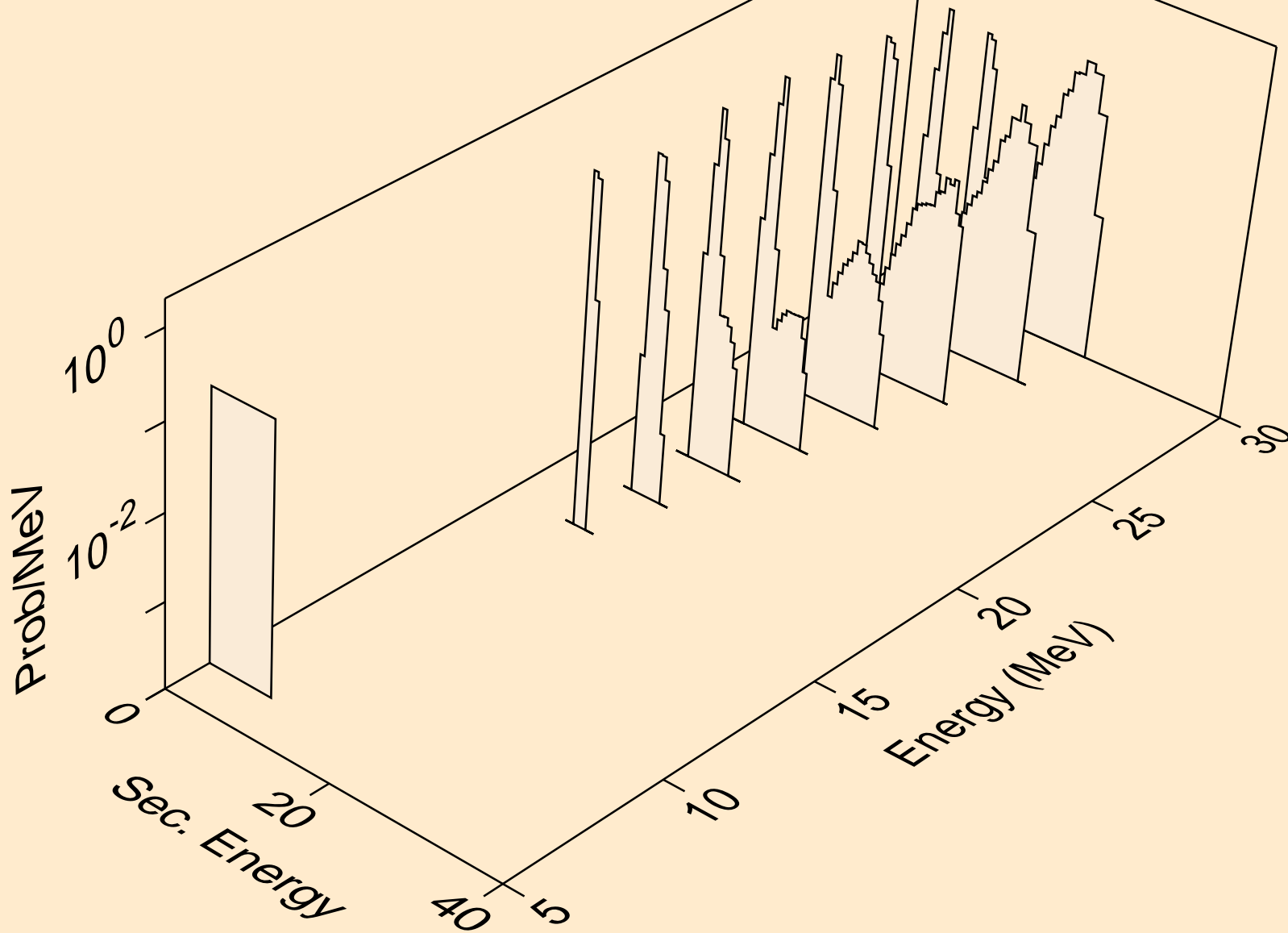
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



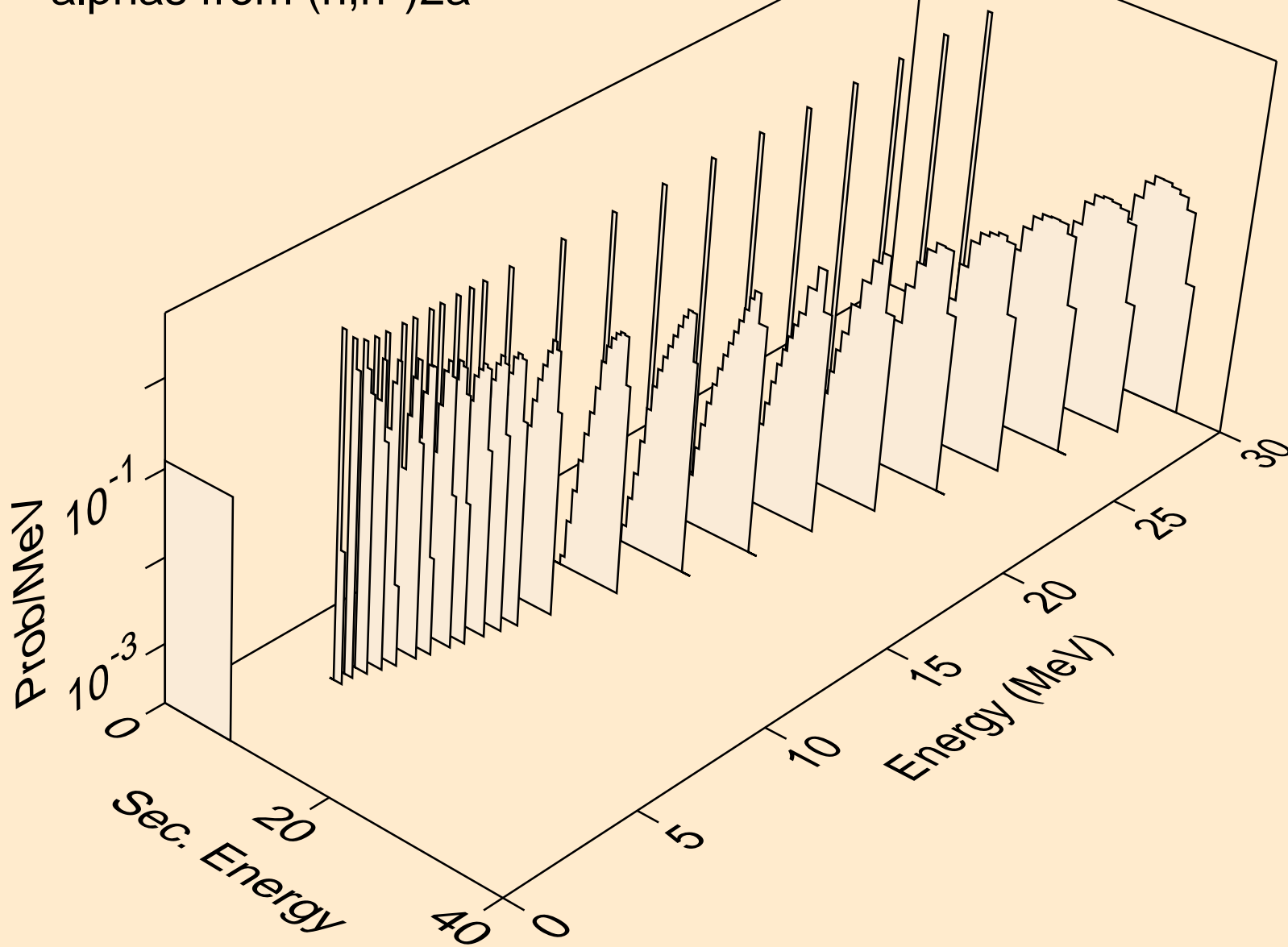
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



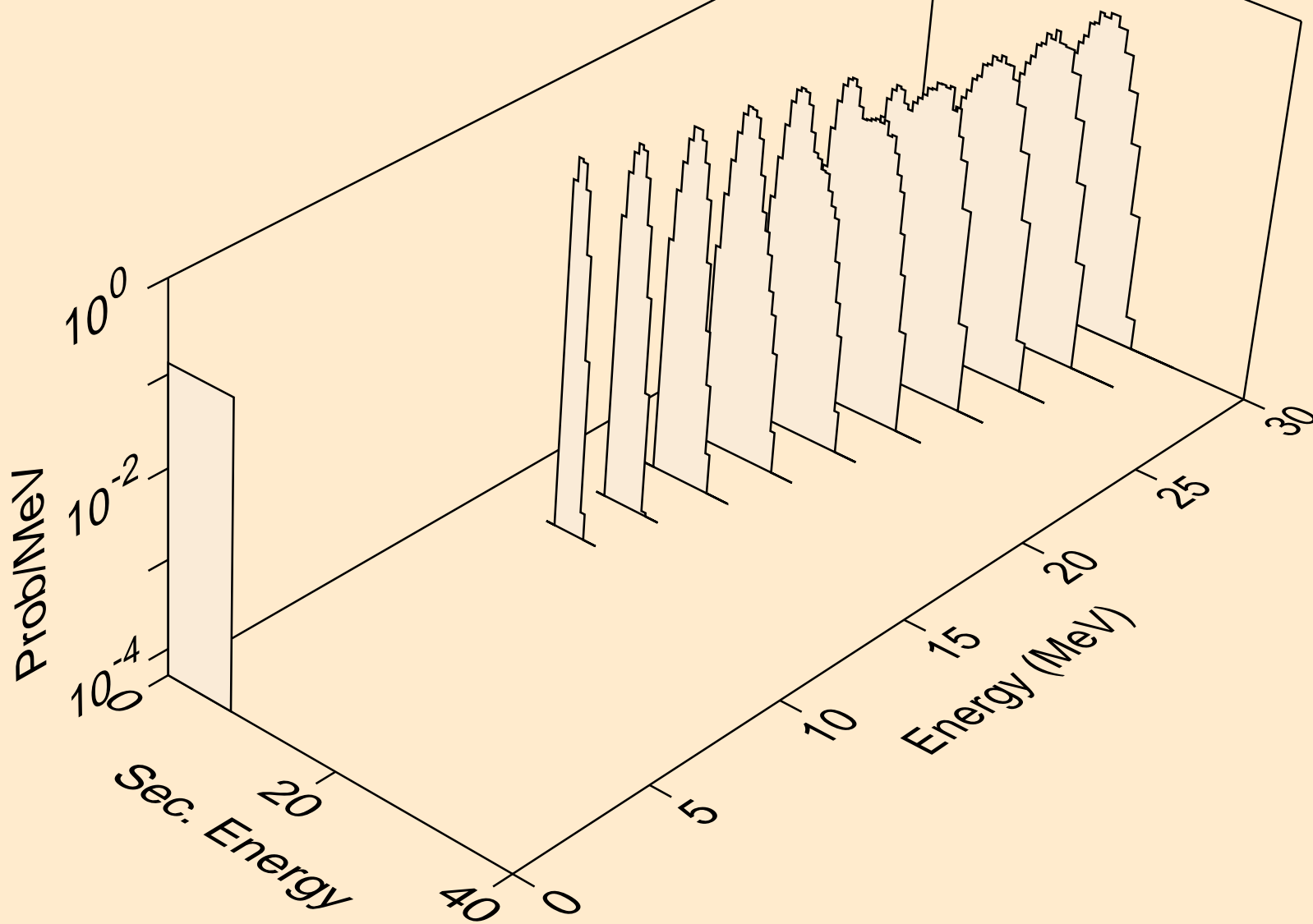
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a

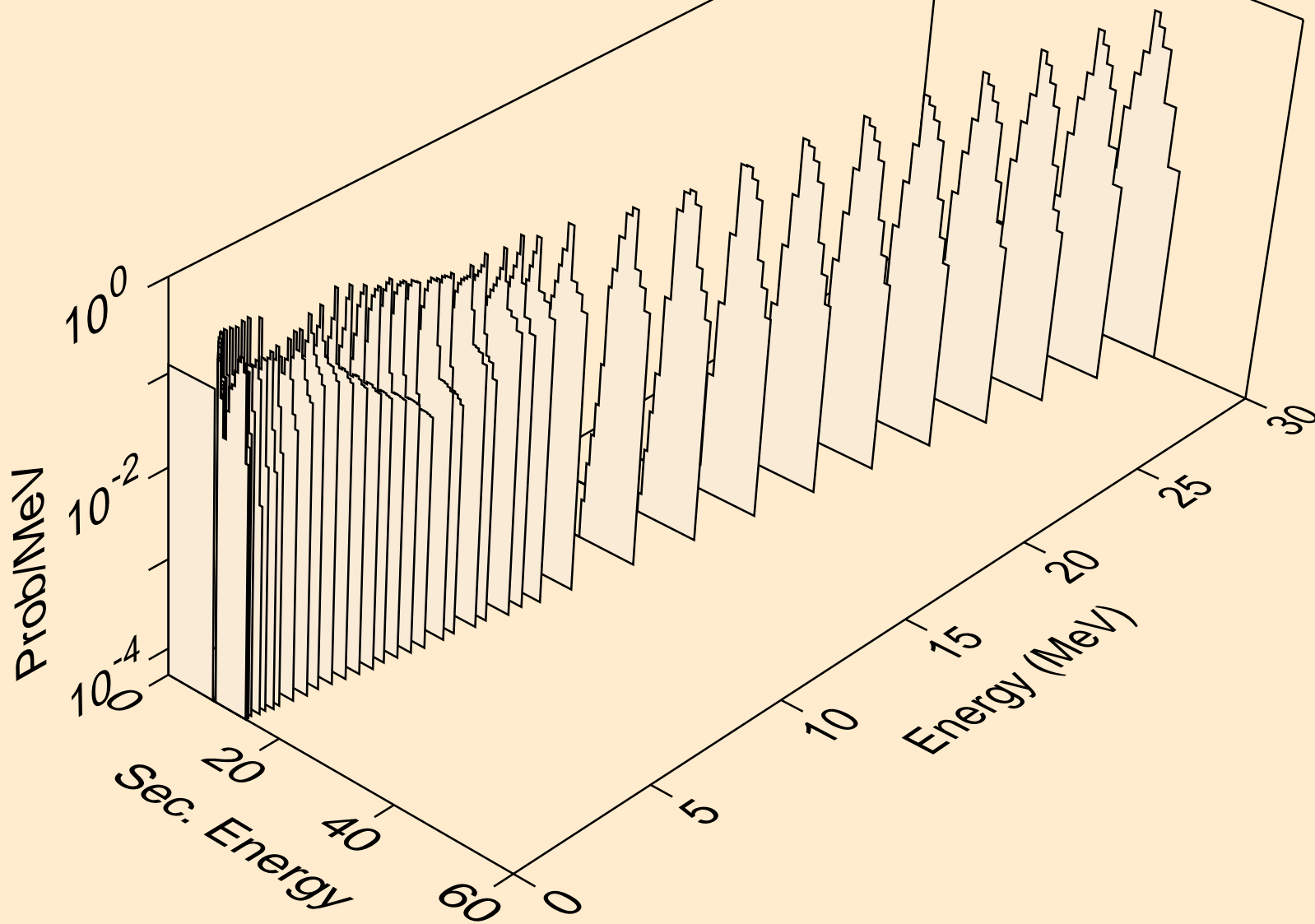


CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)

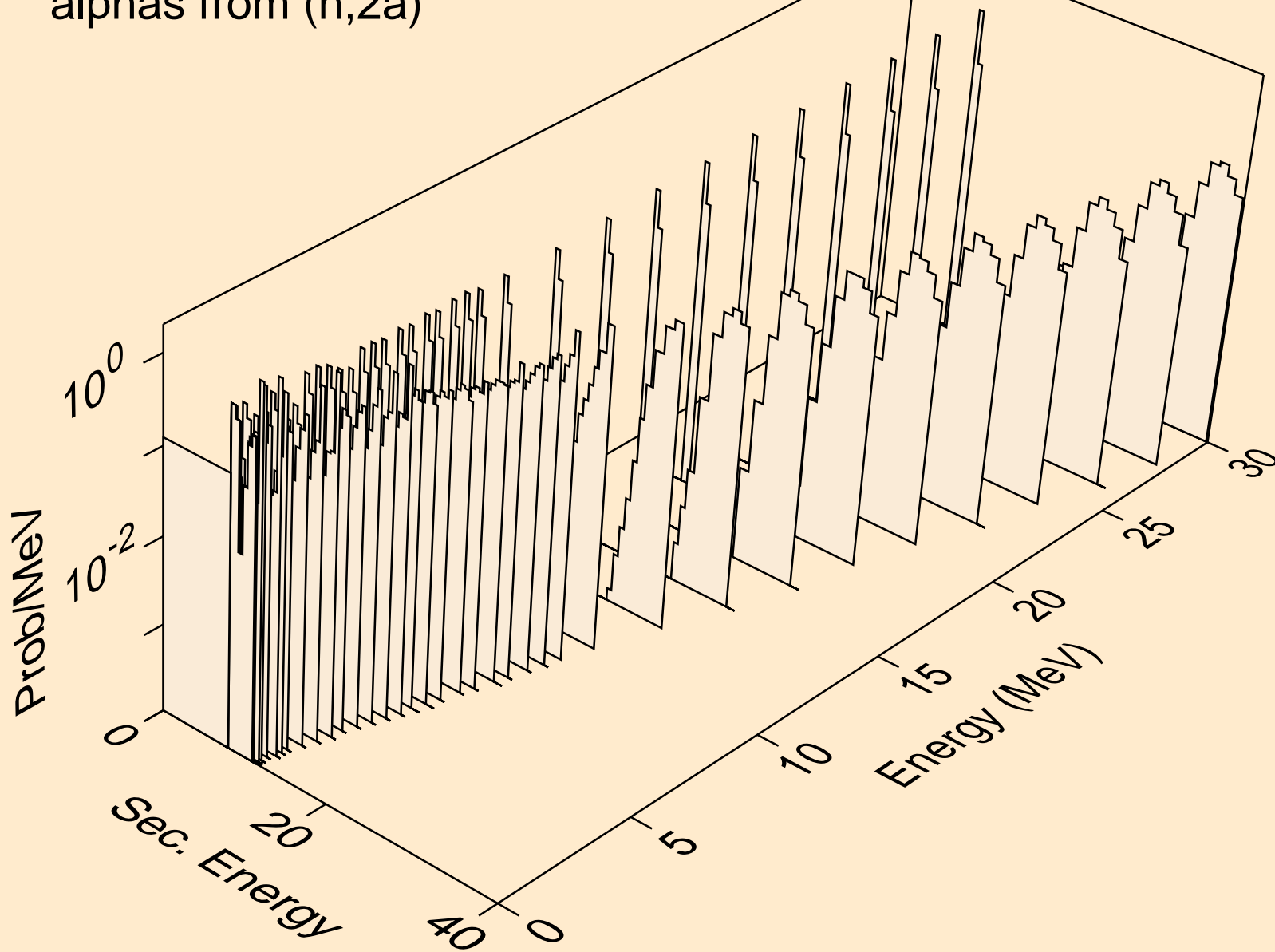




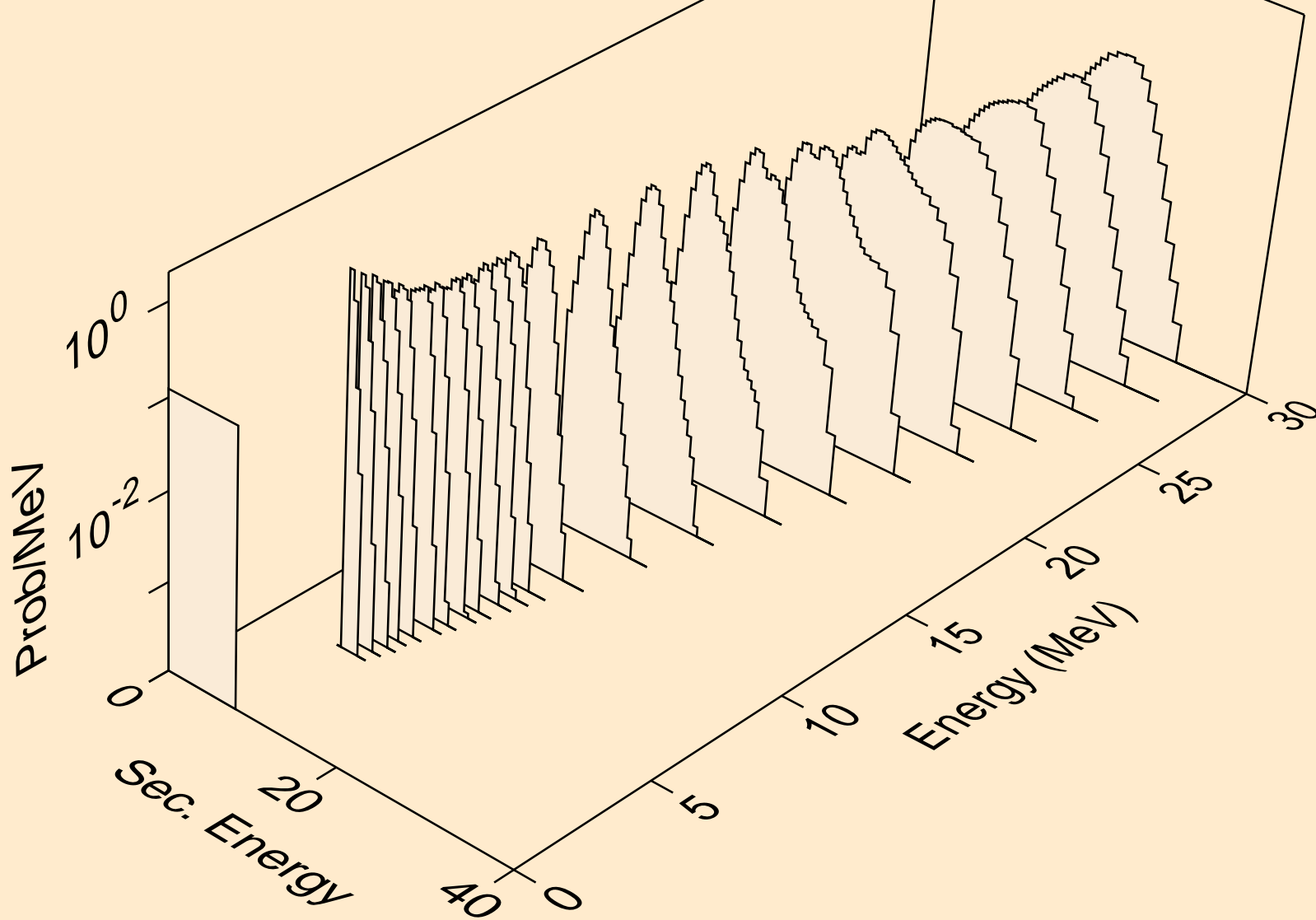
CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



CF245 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

