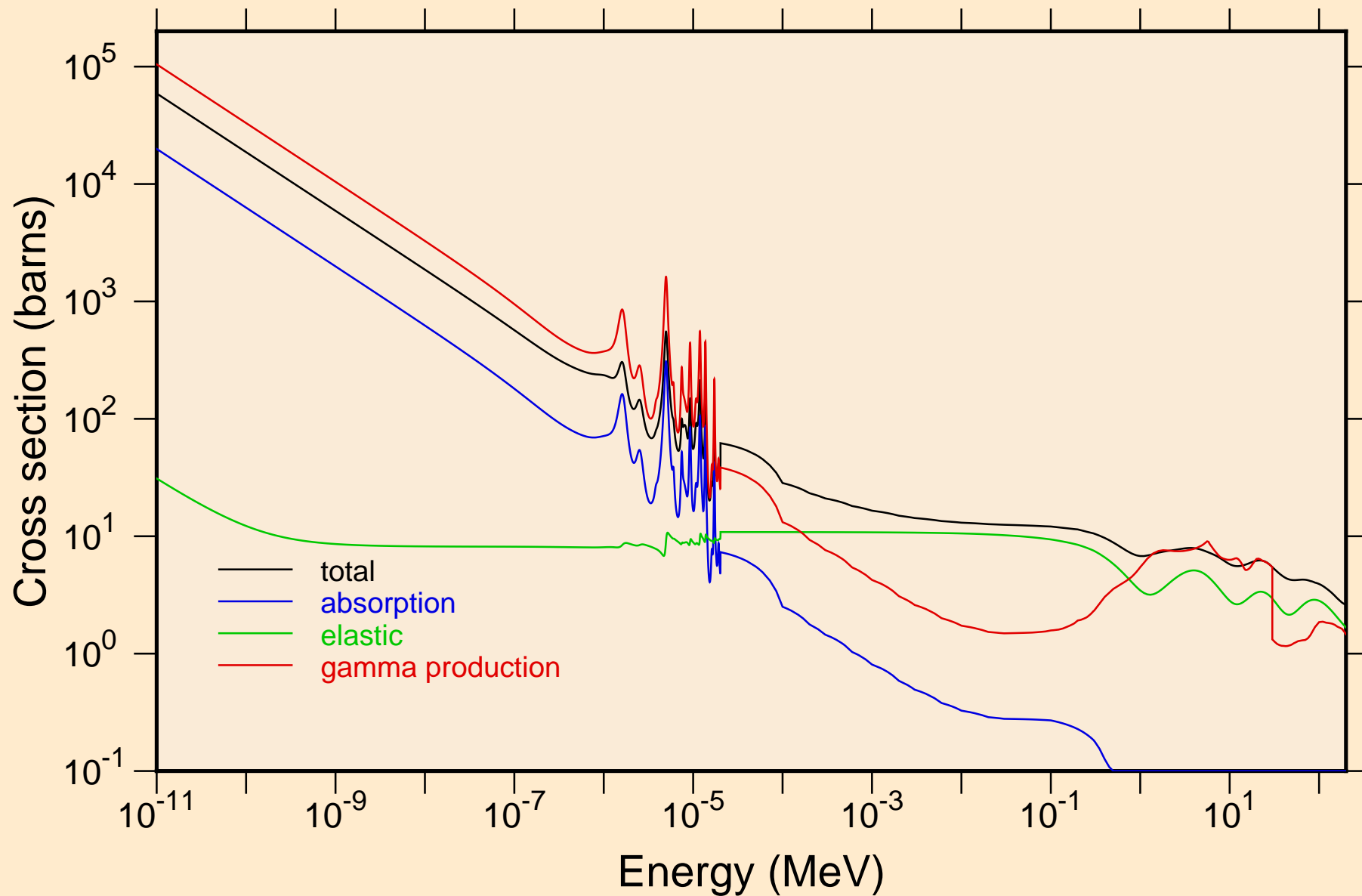
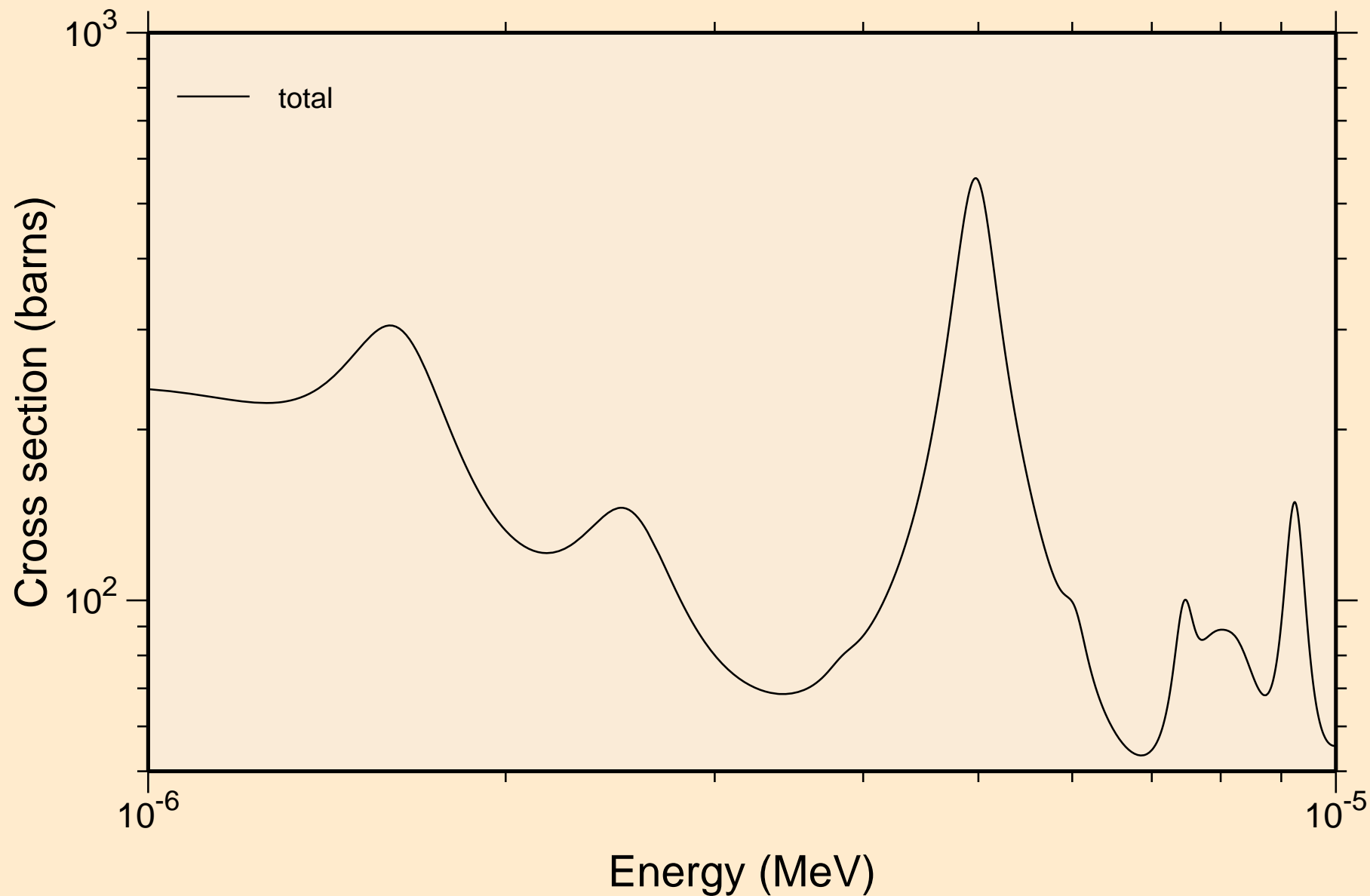


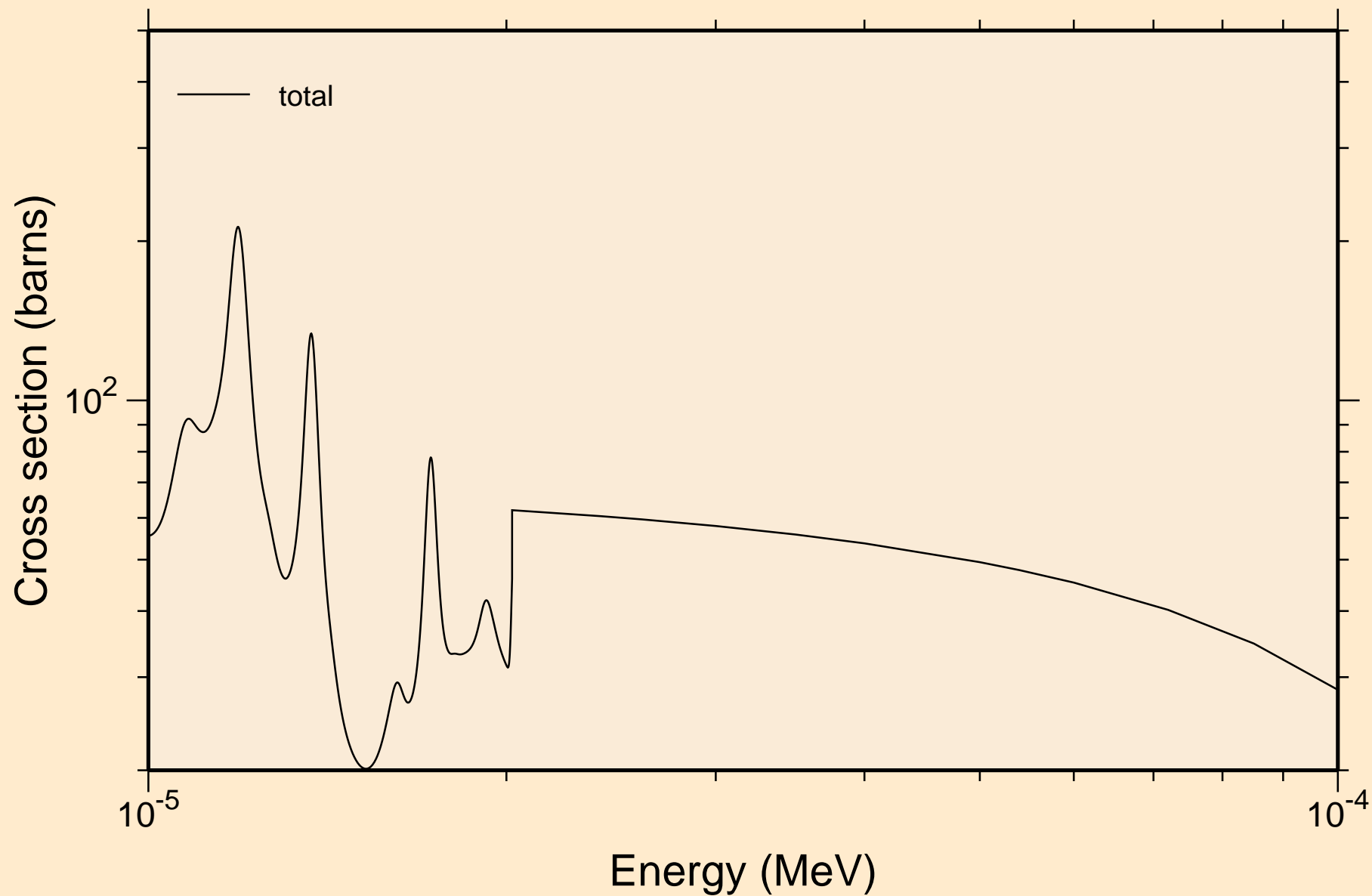
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



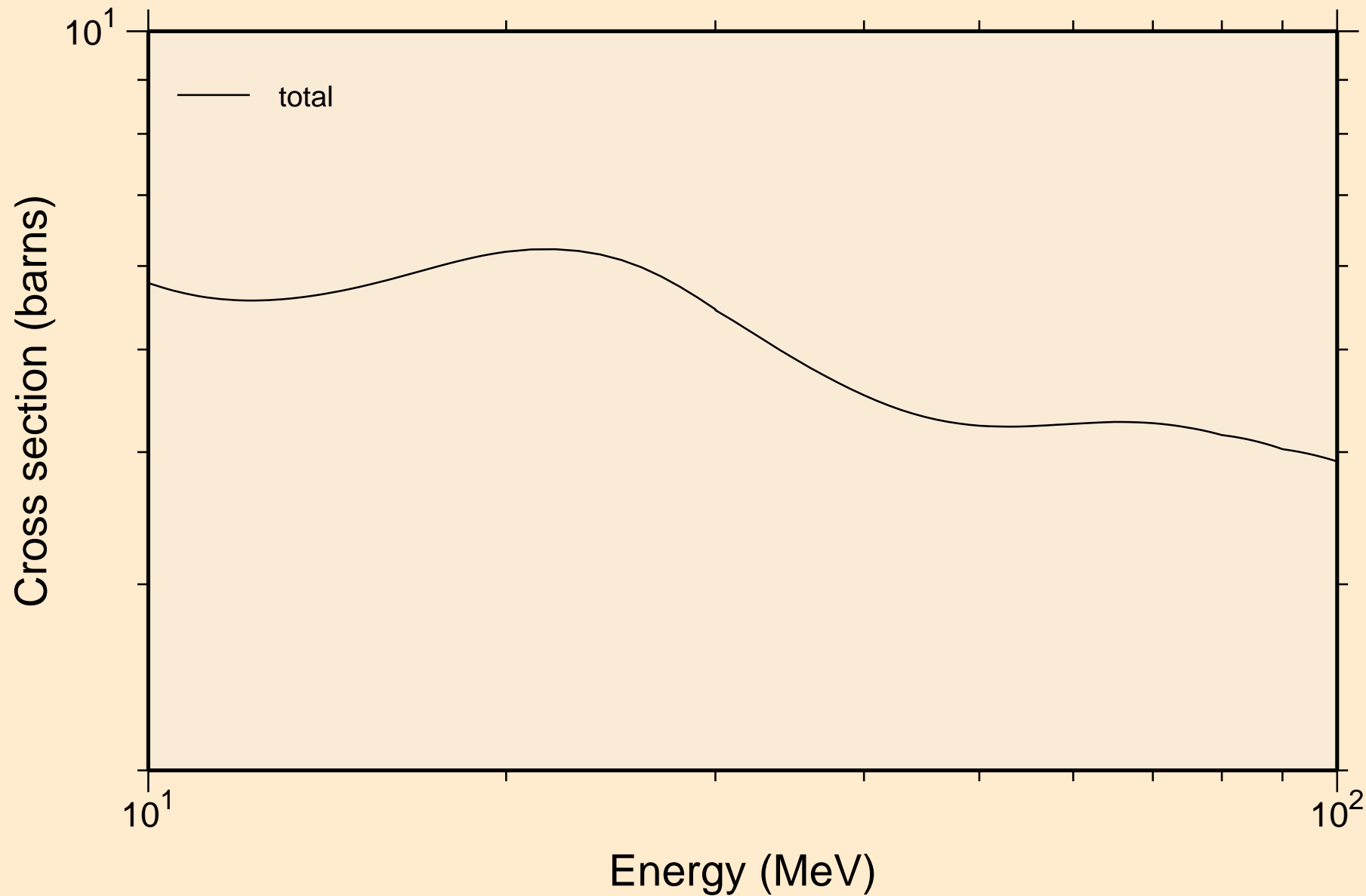
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



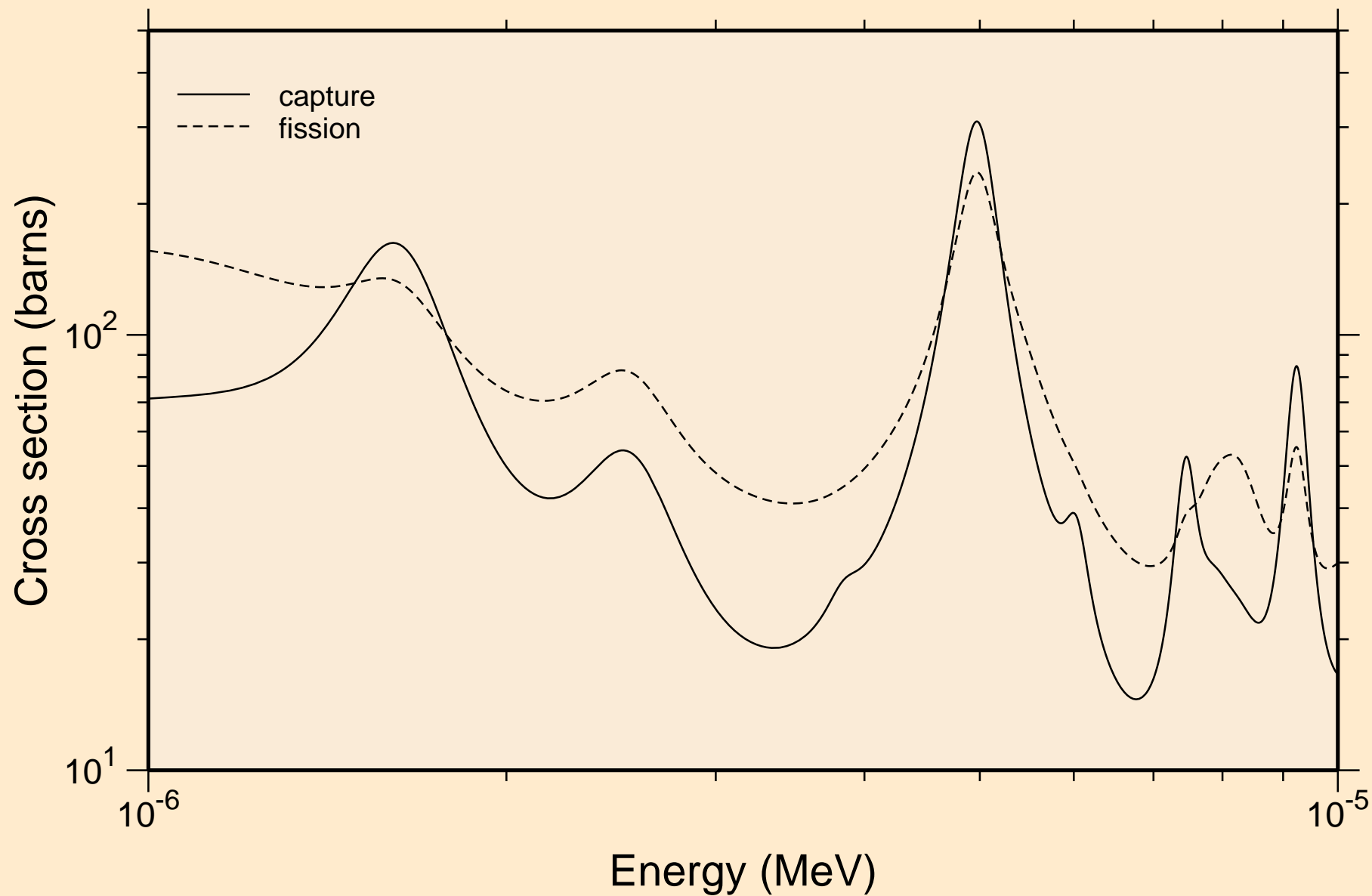
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resonance total cross section



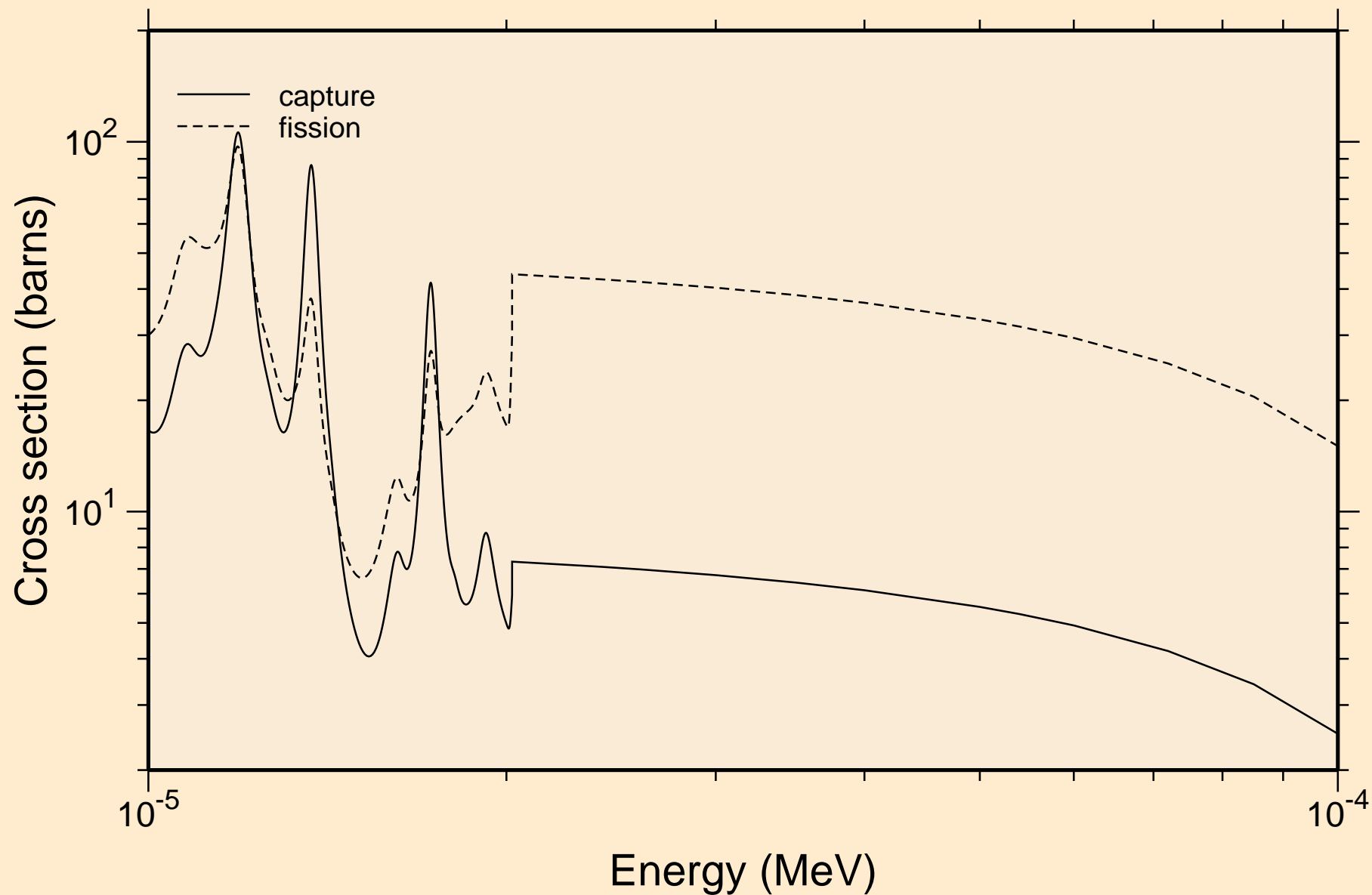
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resonance total cross section



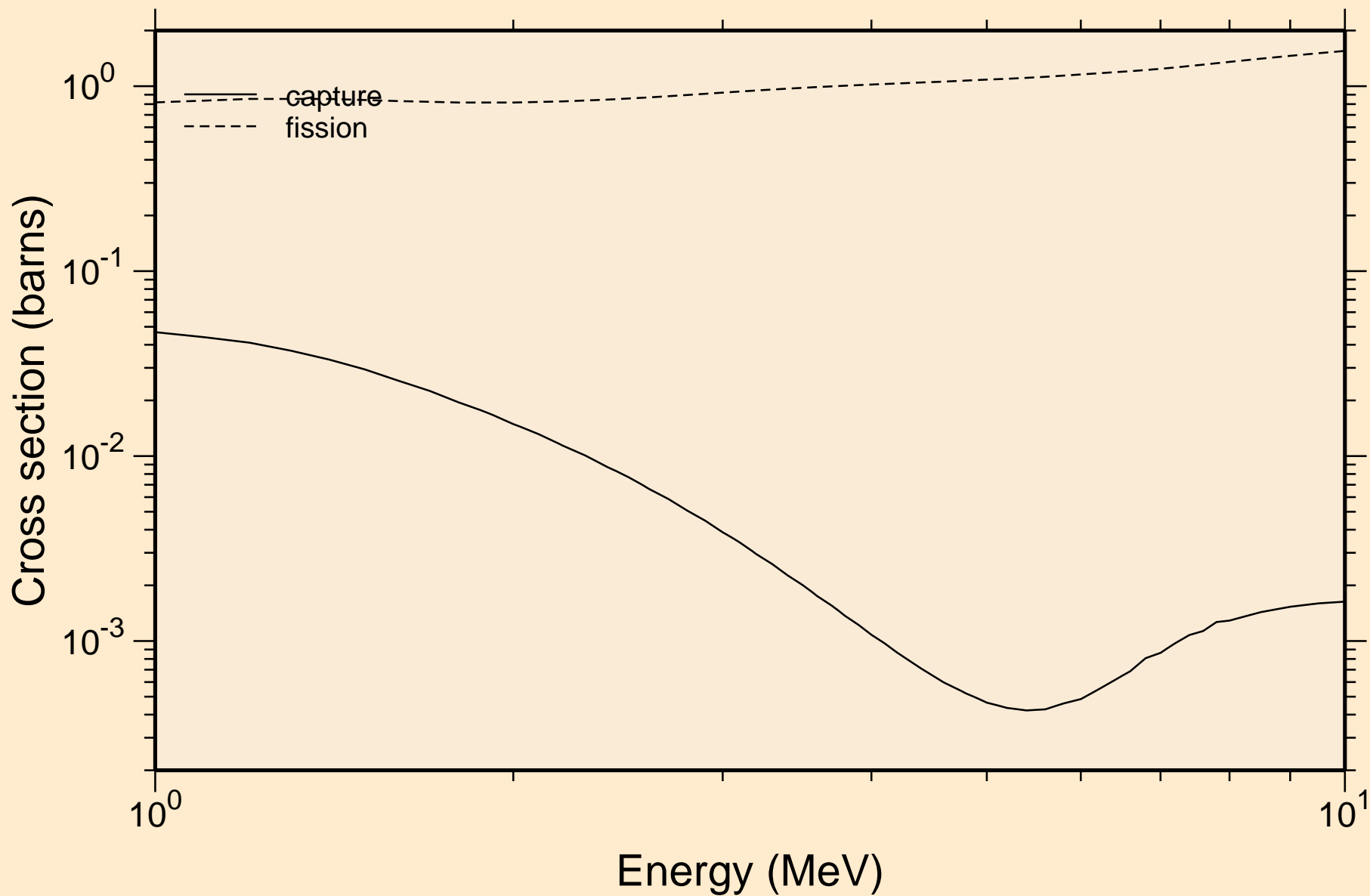
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resonance absorption cross sections



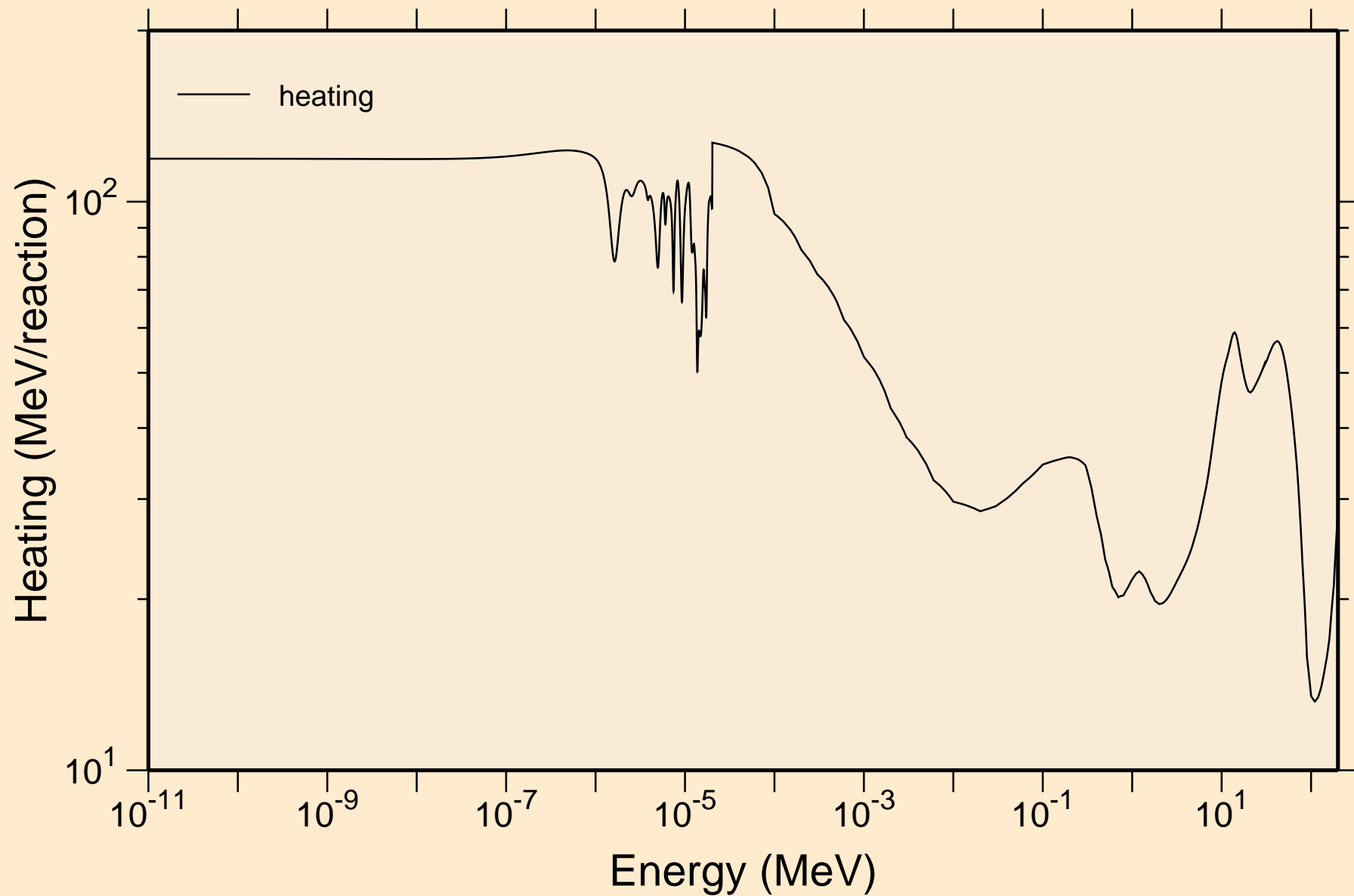
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

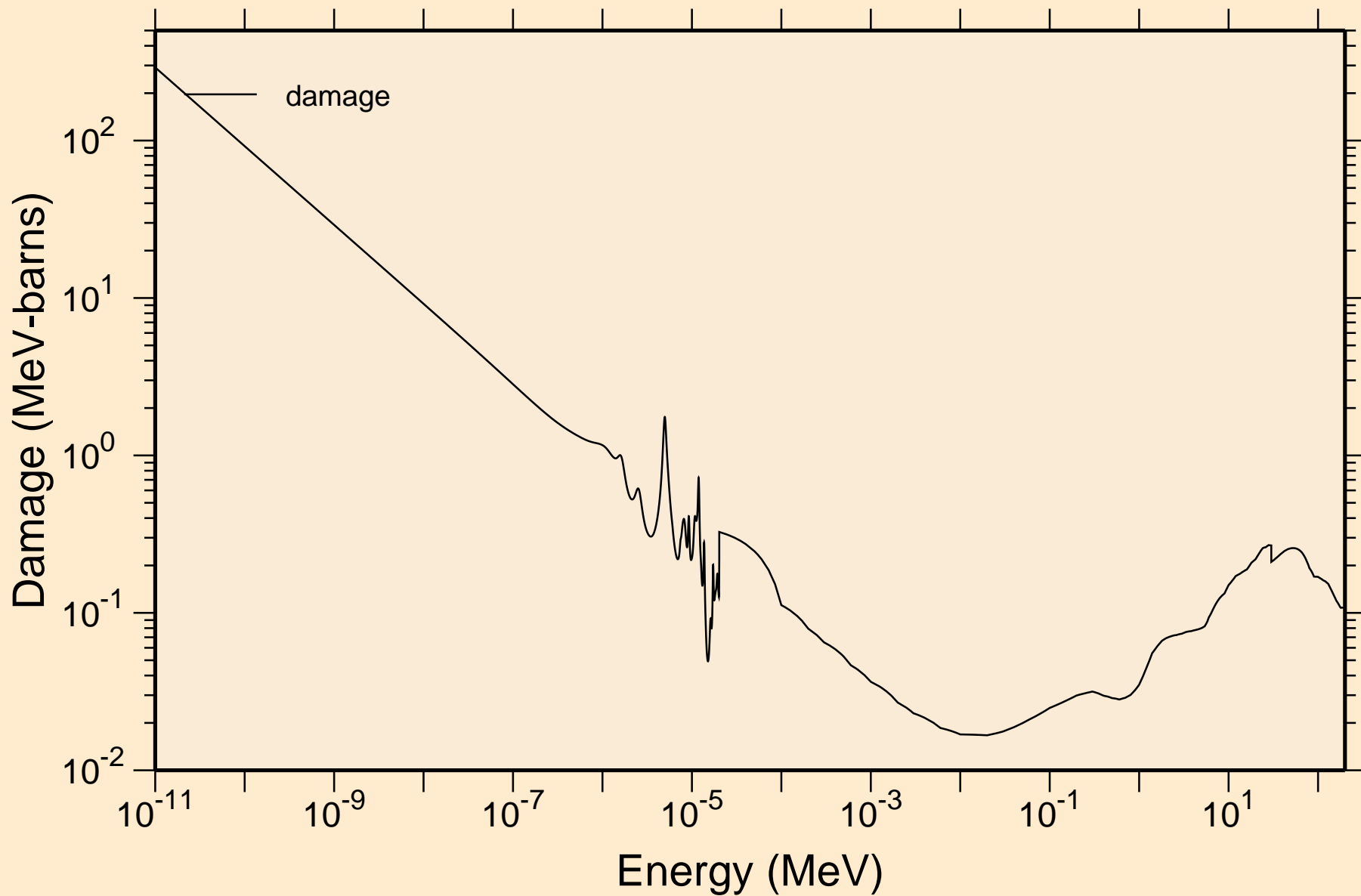


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

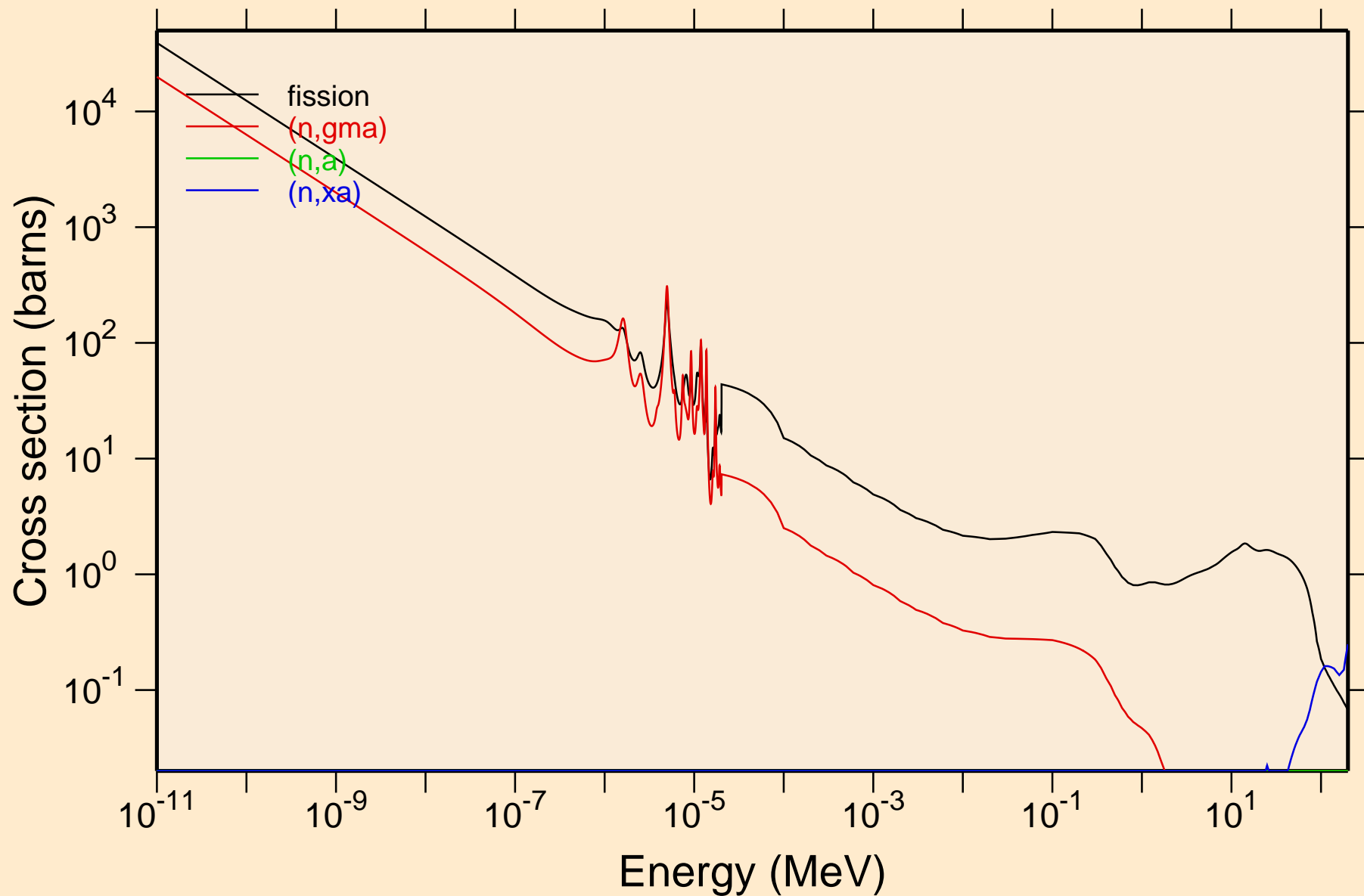




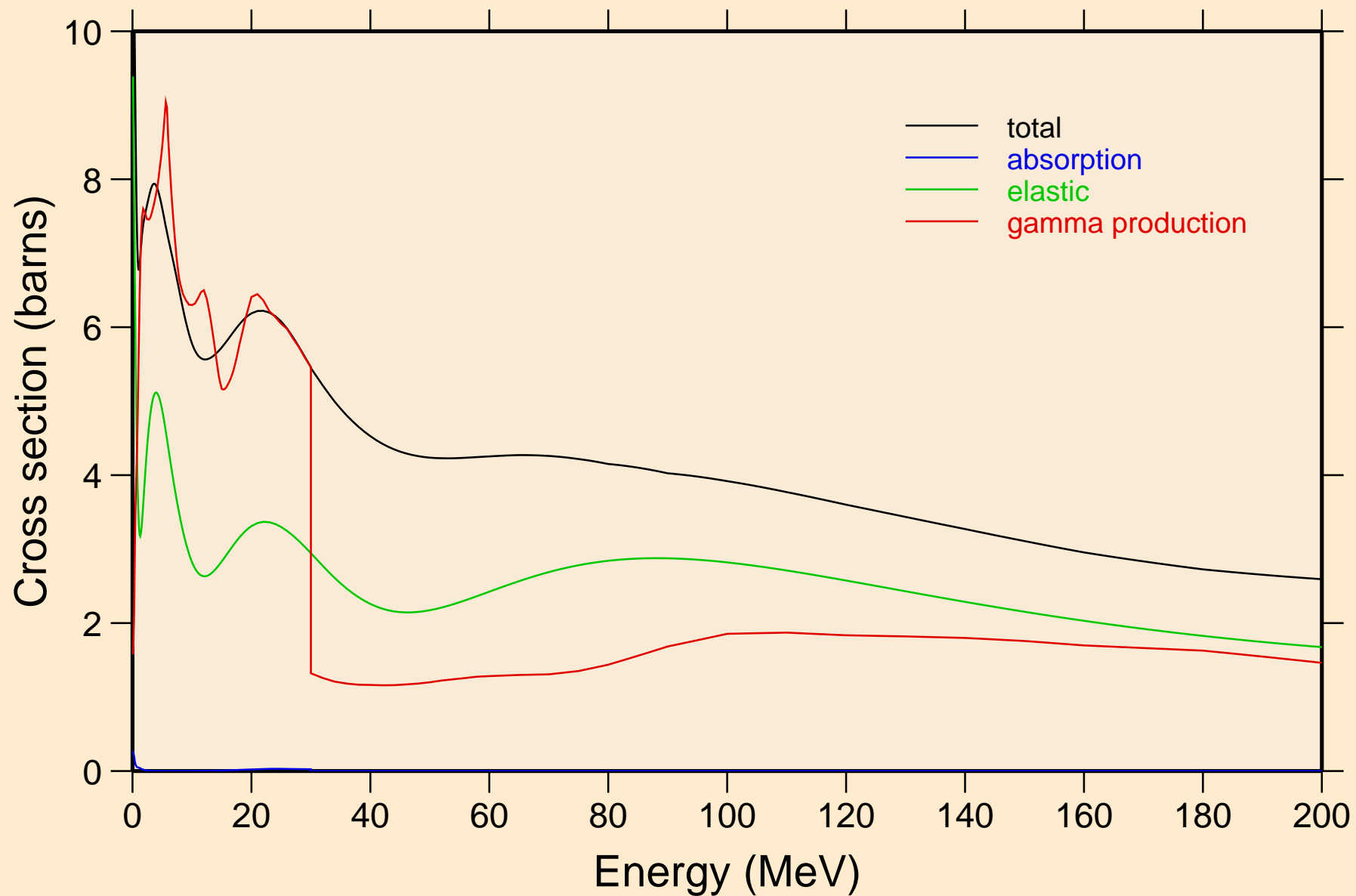
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Damage



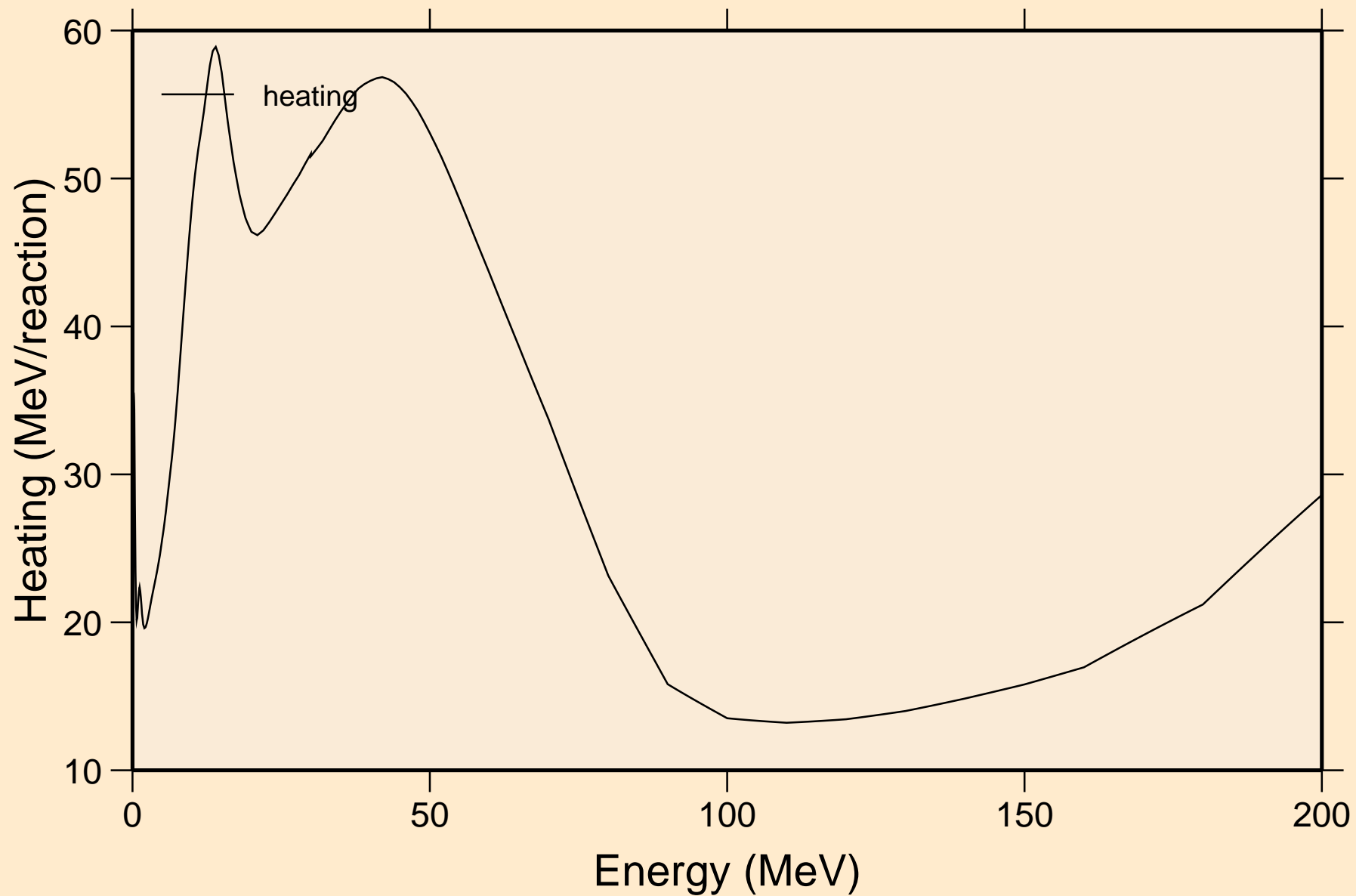
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Non-threshold reactions



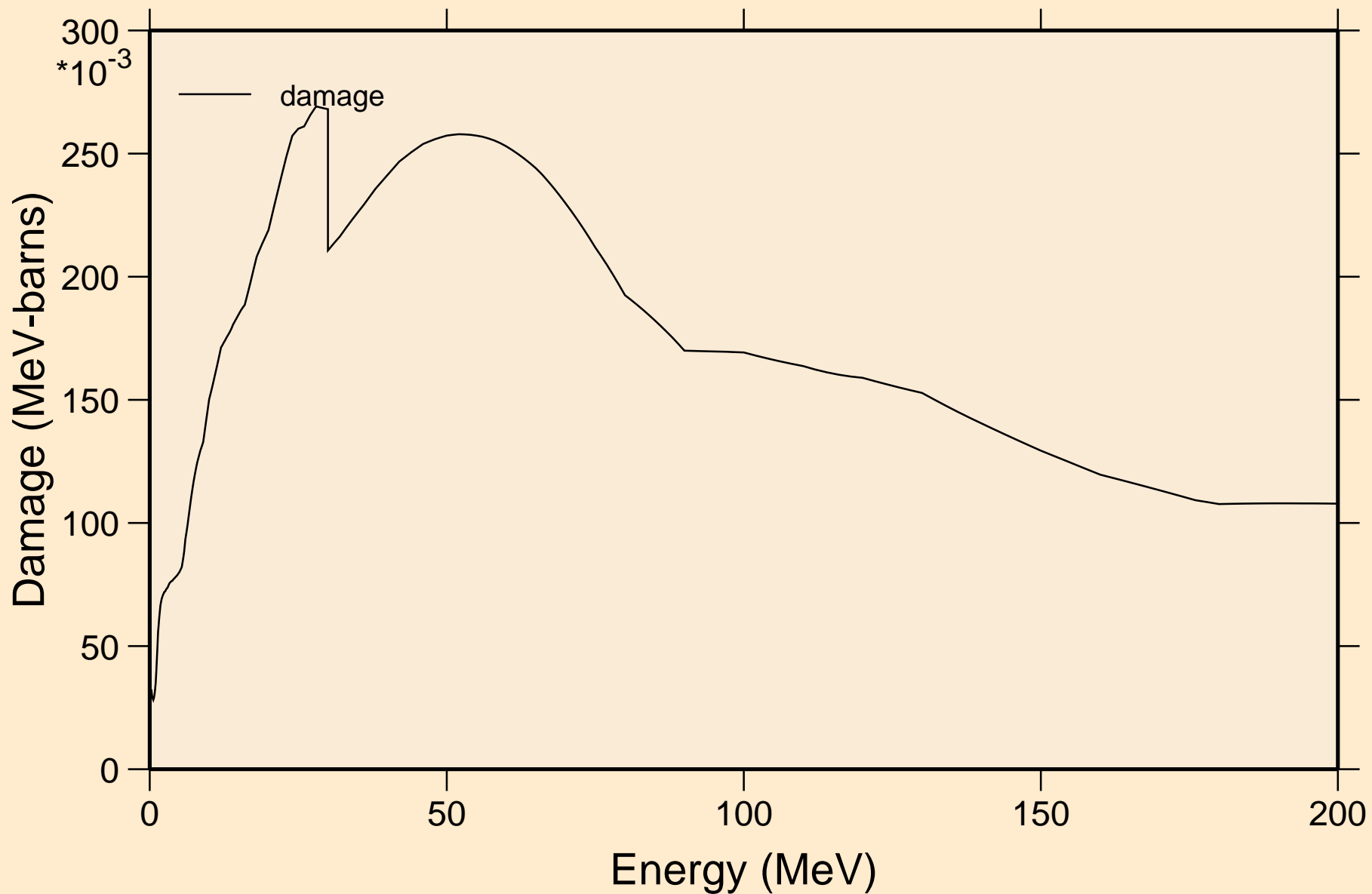
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Principal cross sections



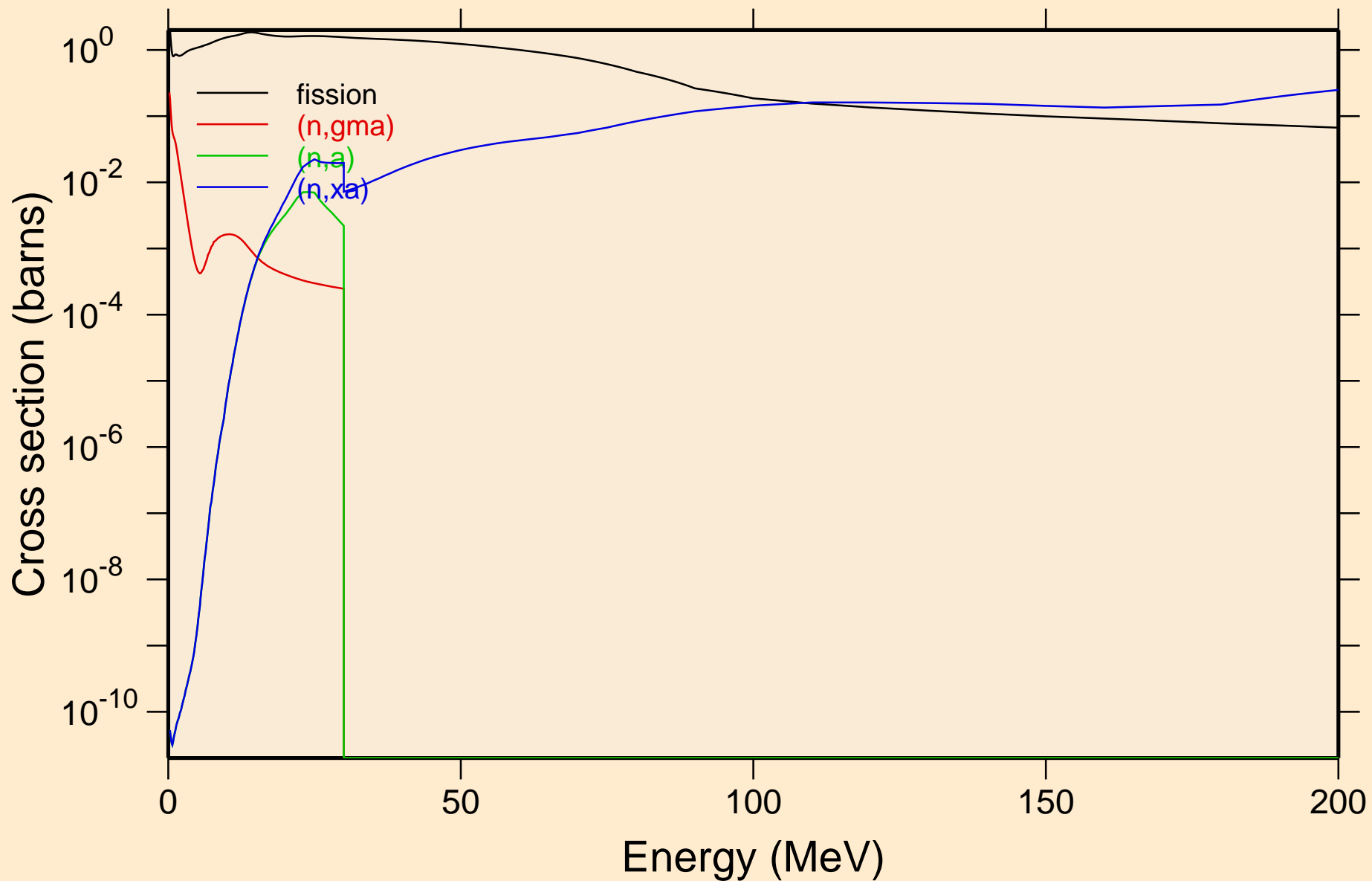
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



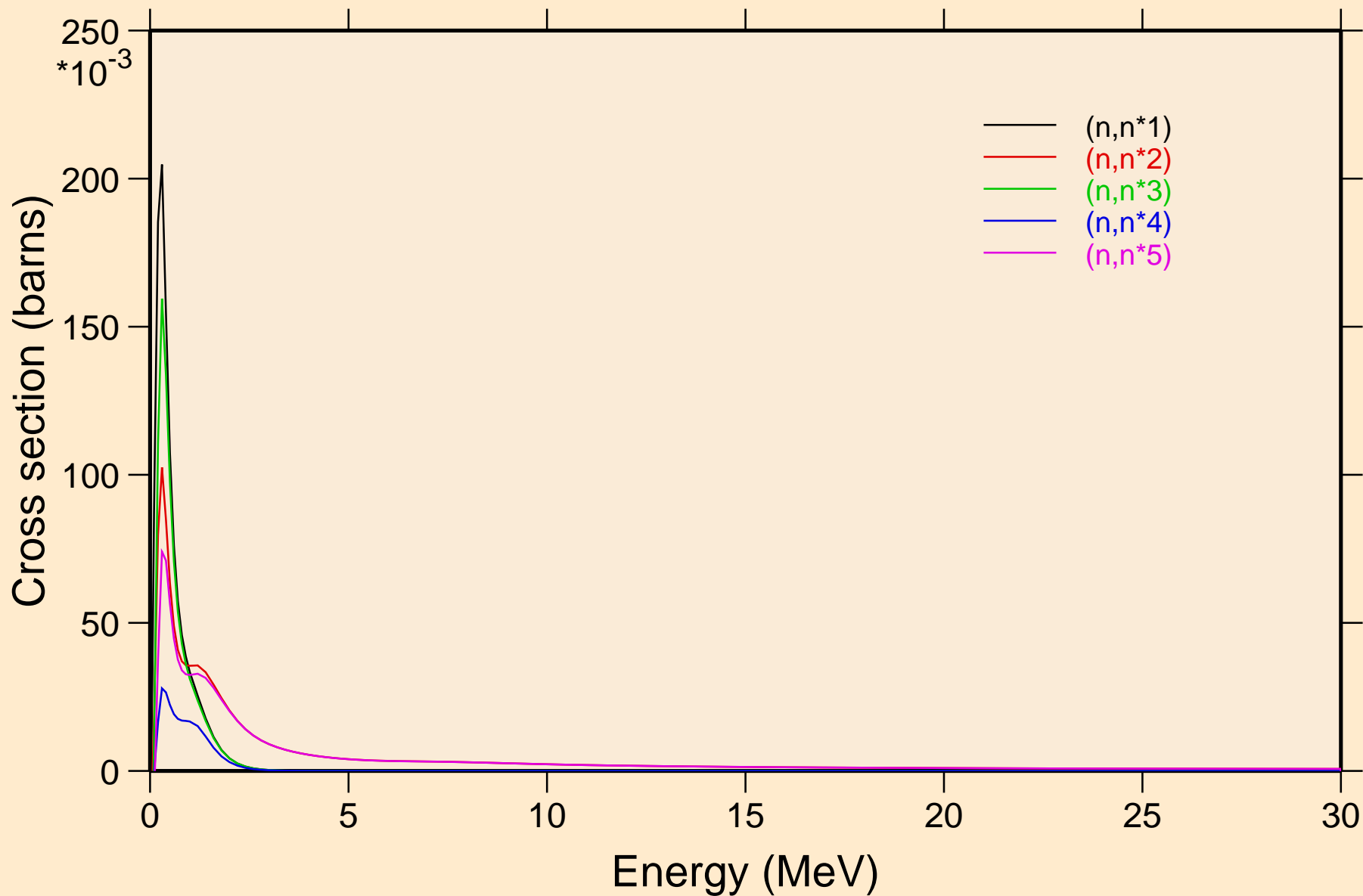
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage



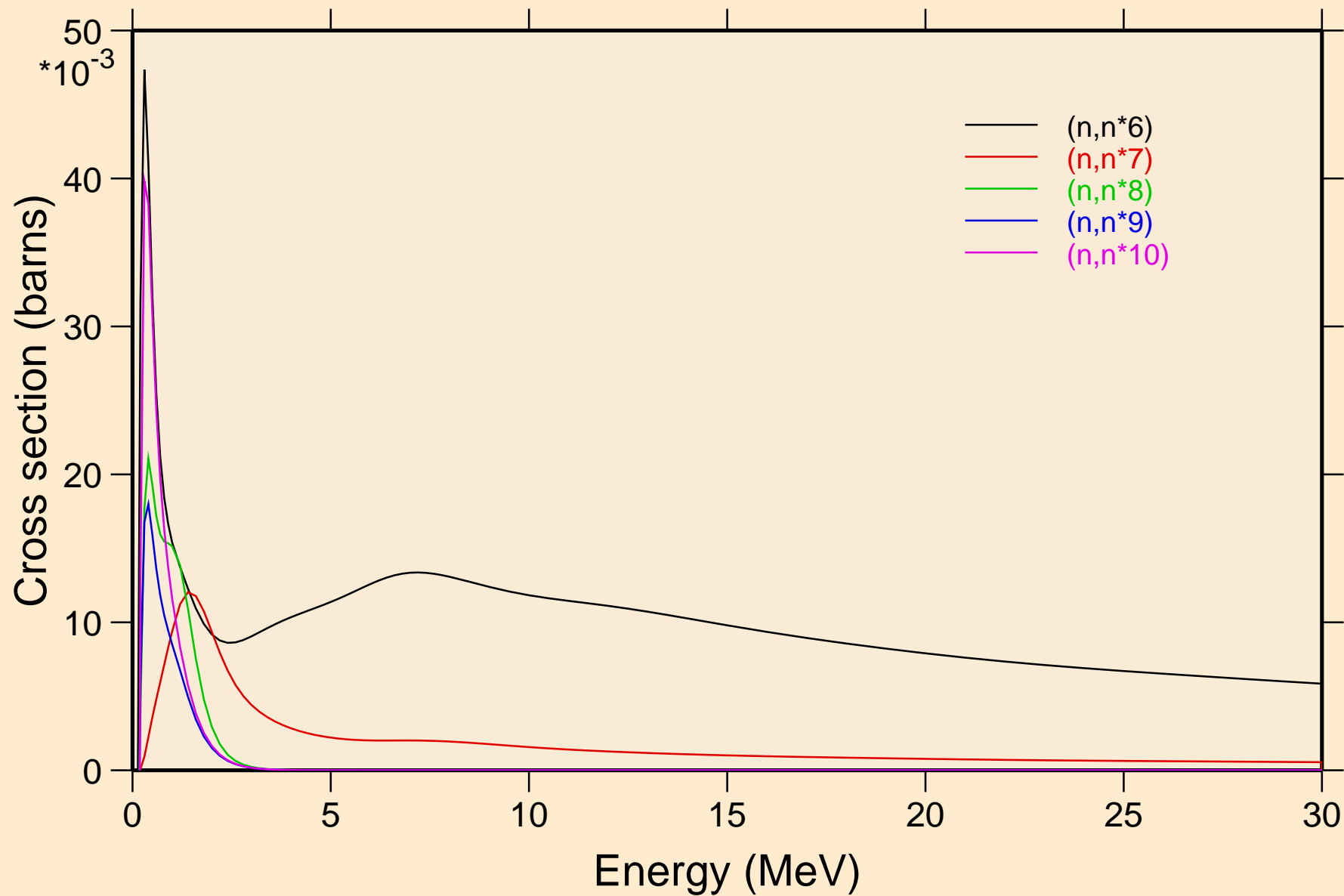
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

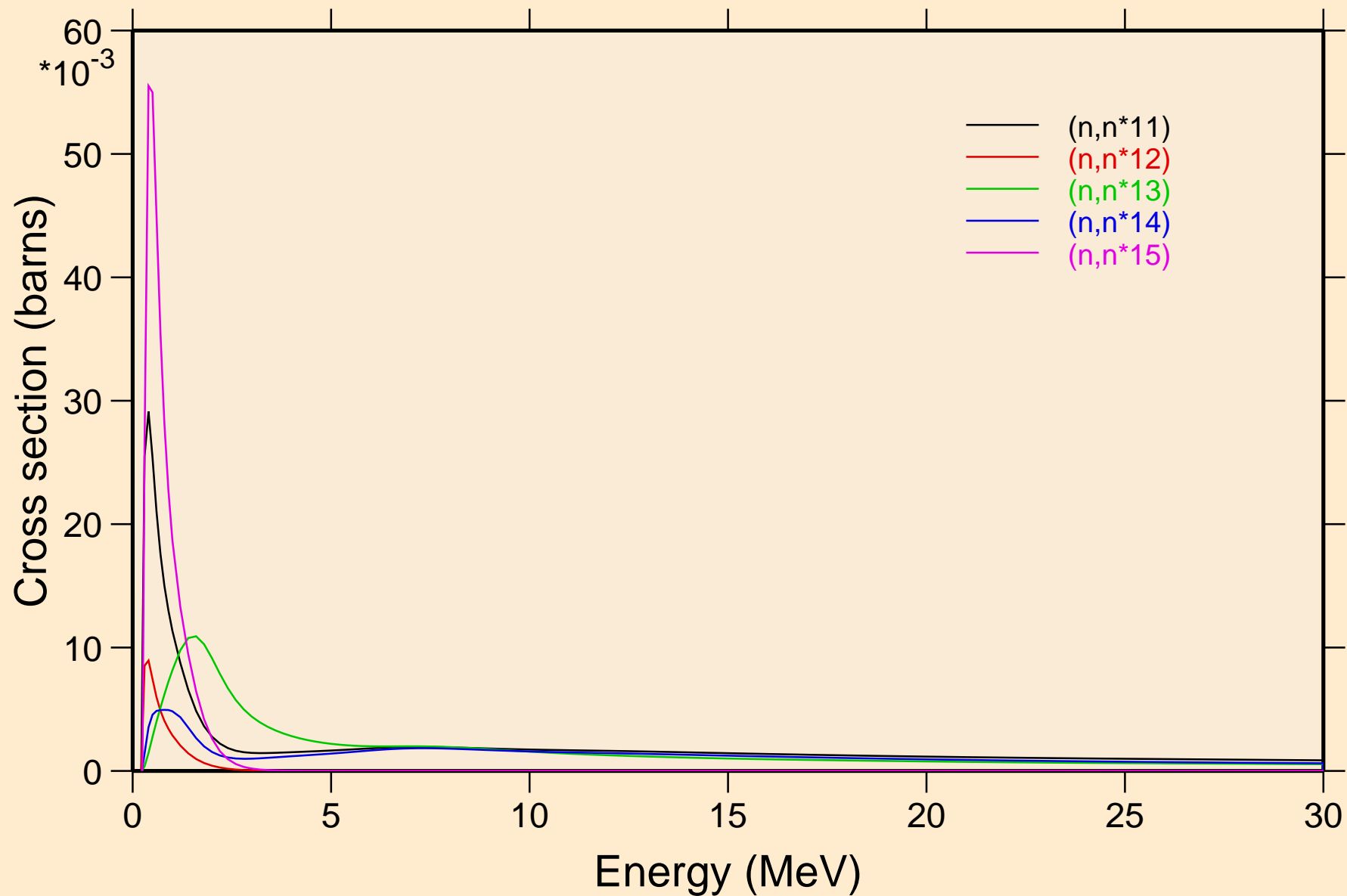


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

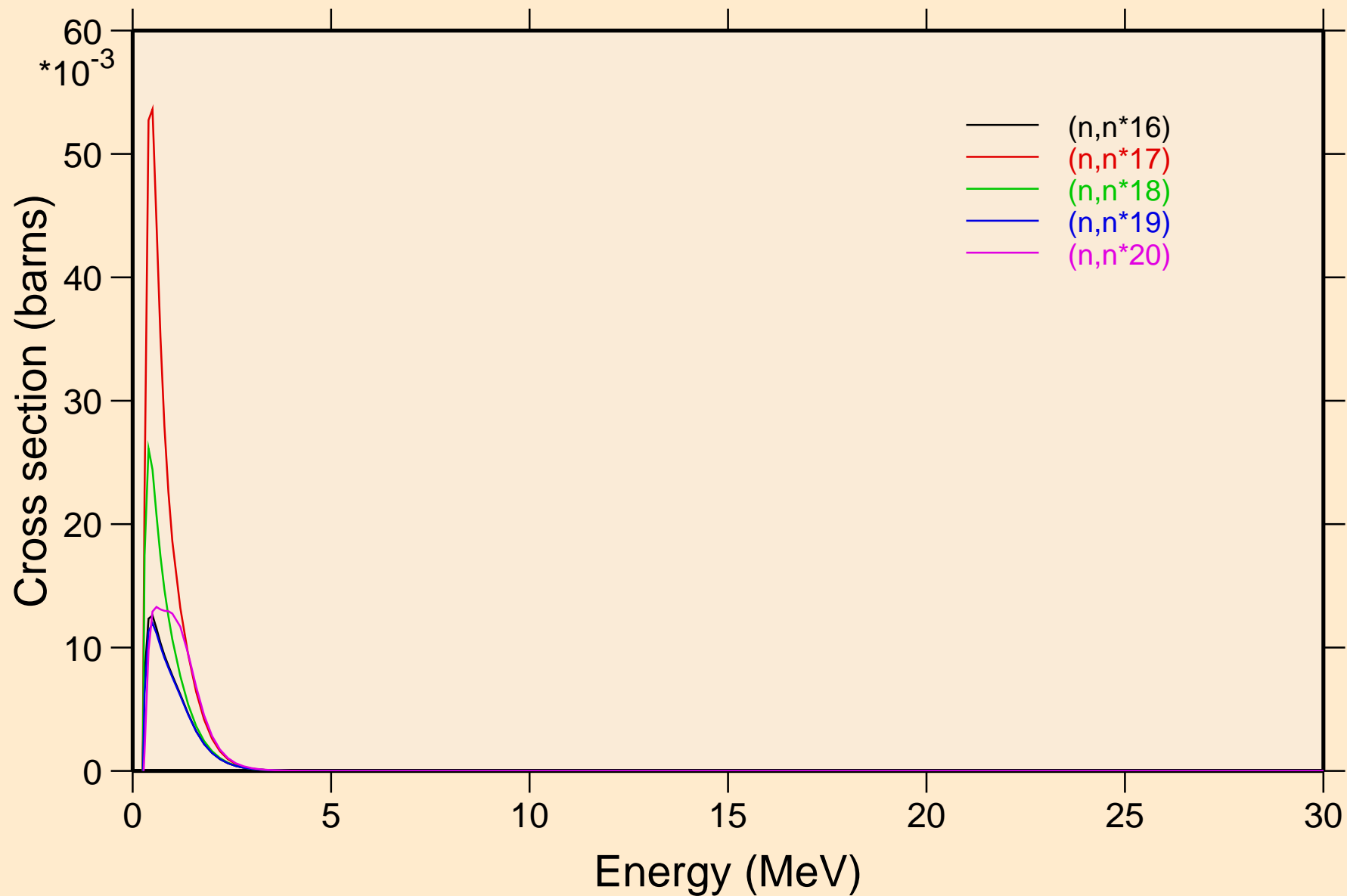




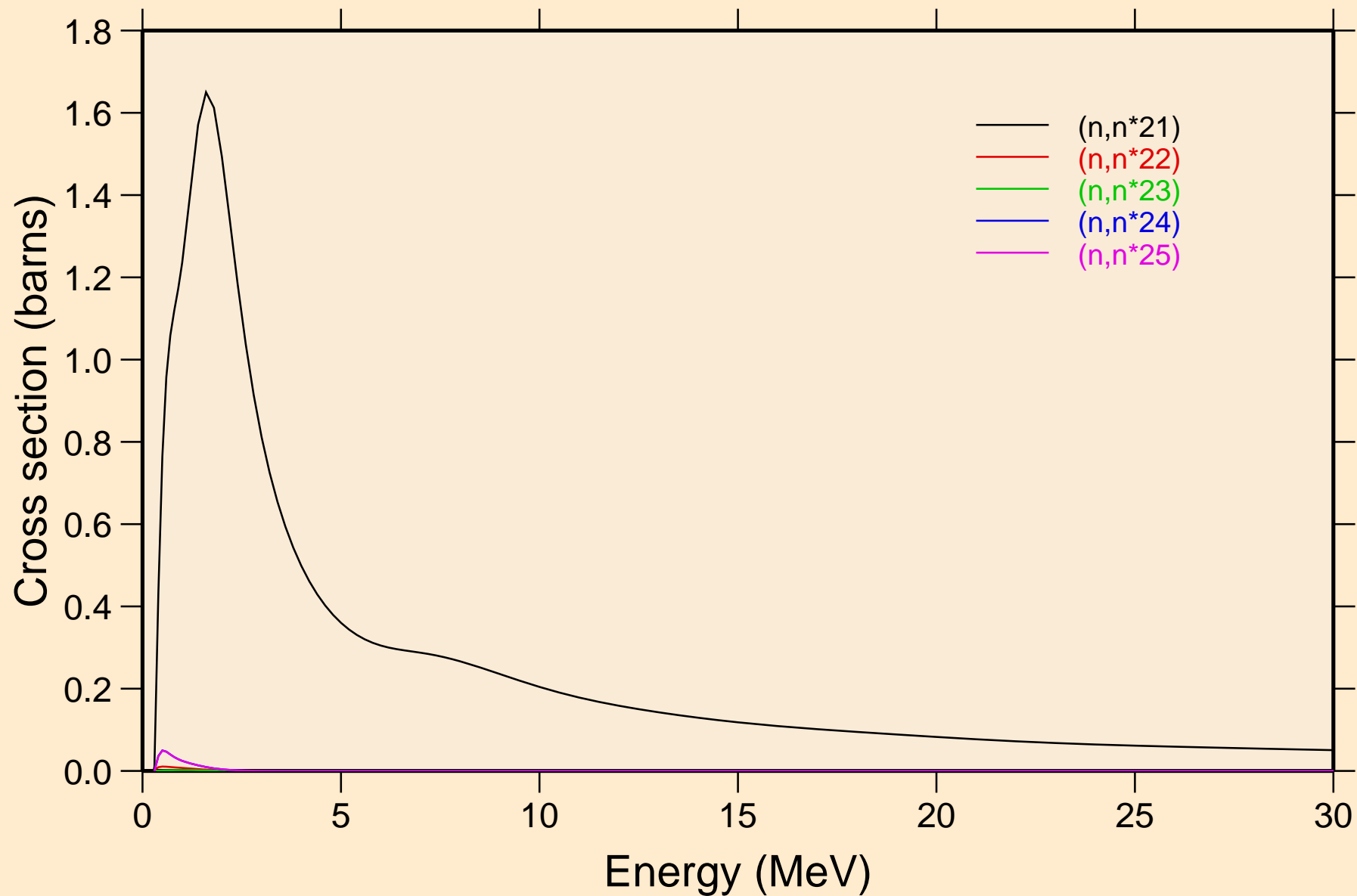
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Inelastic levels



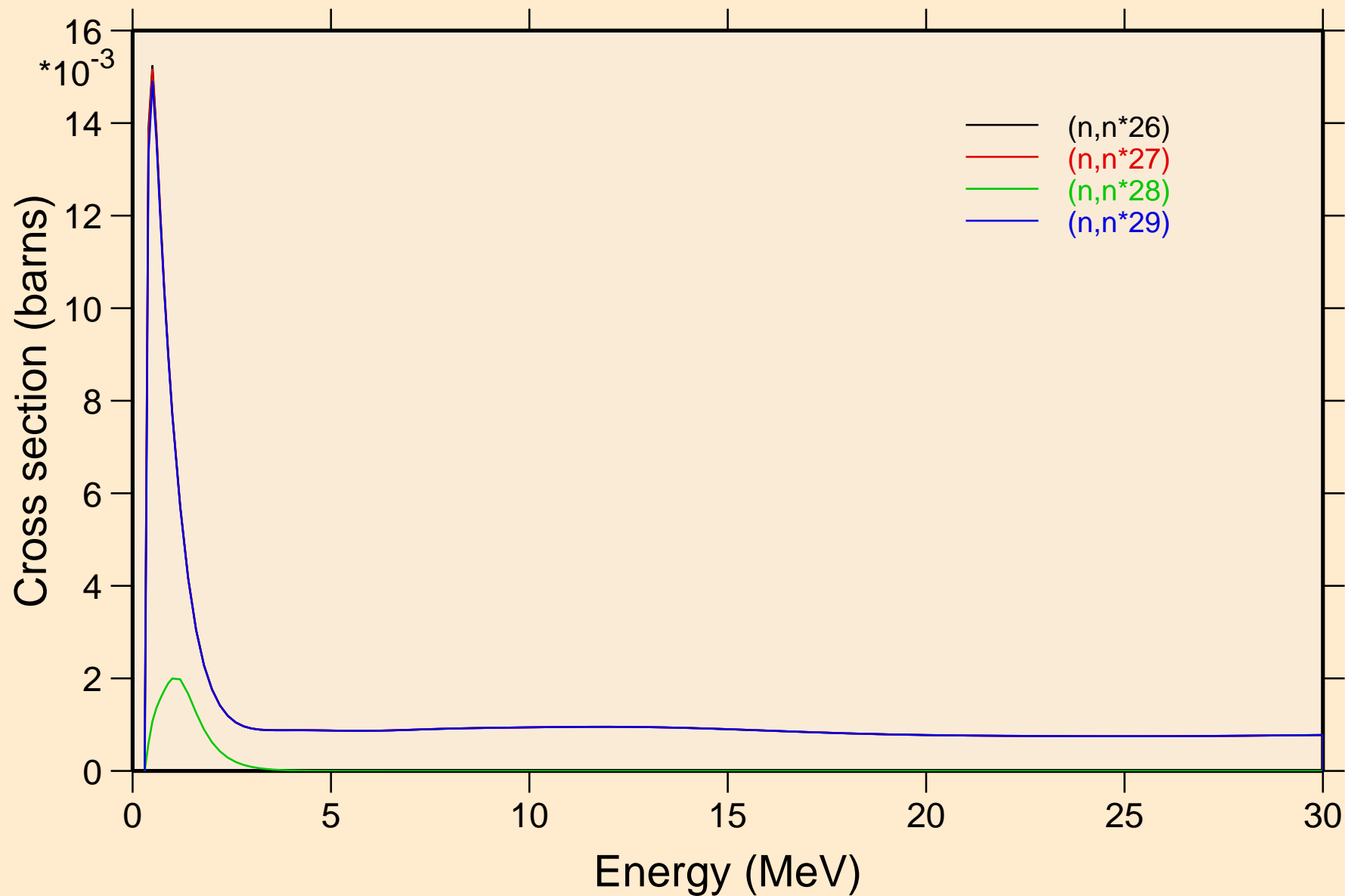
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



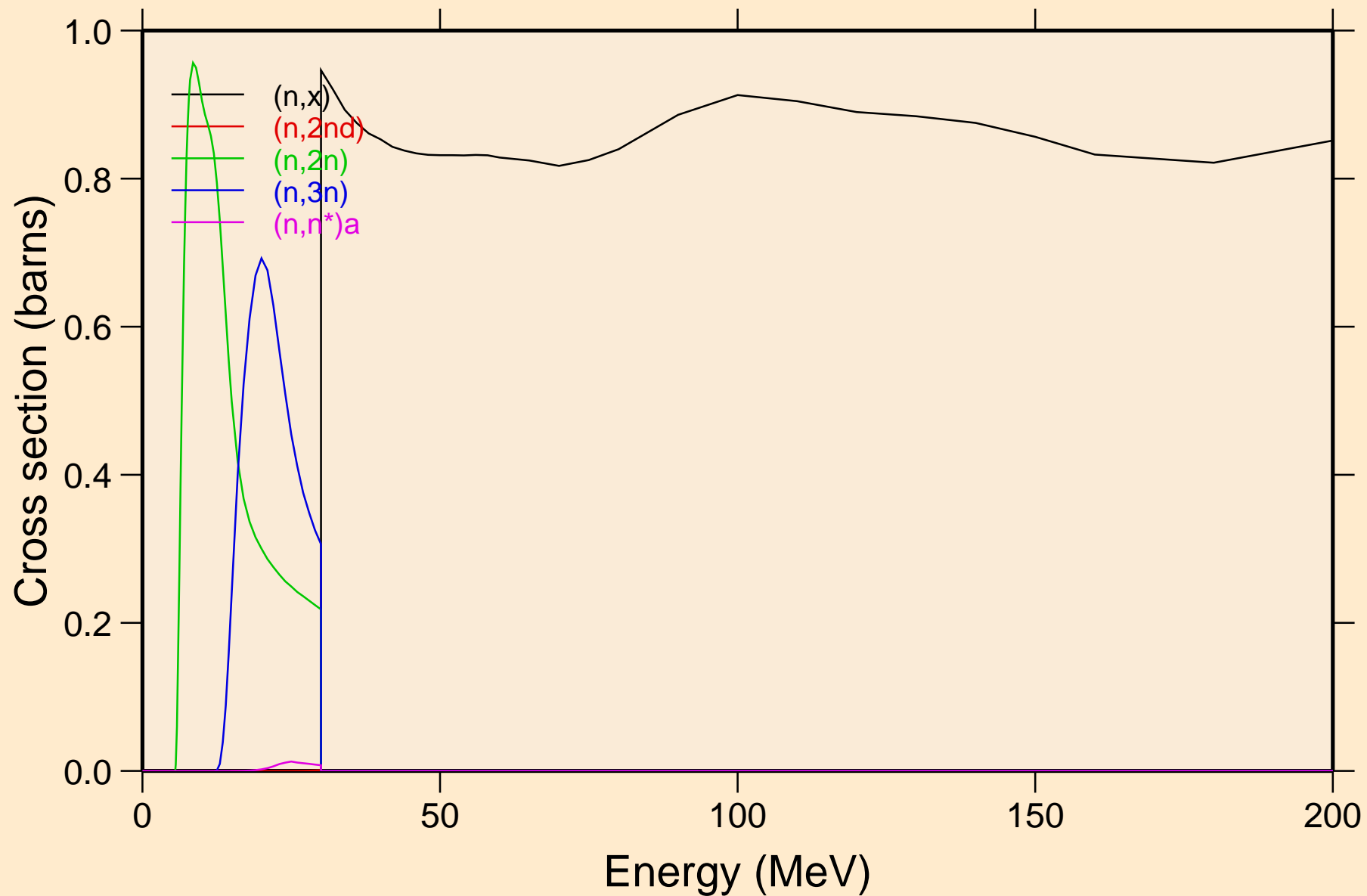
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



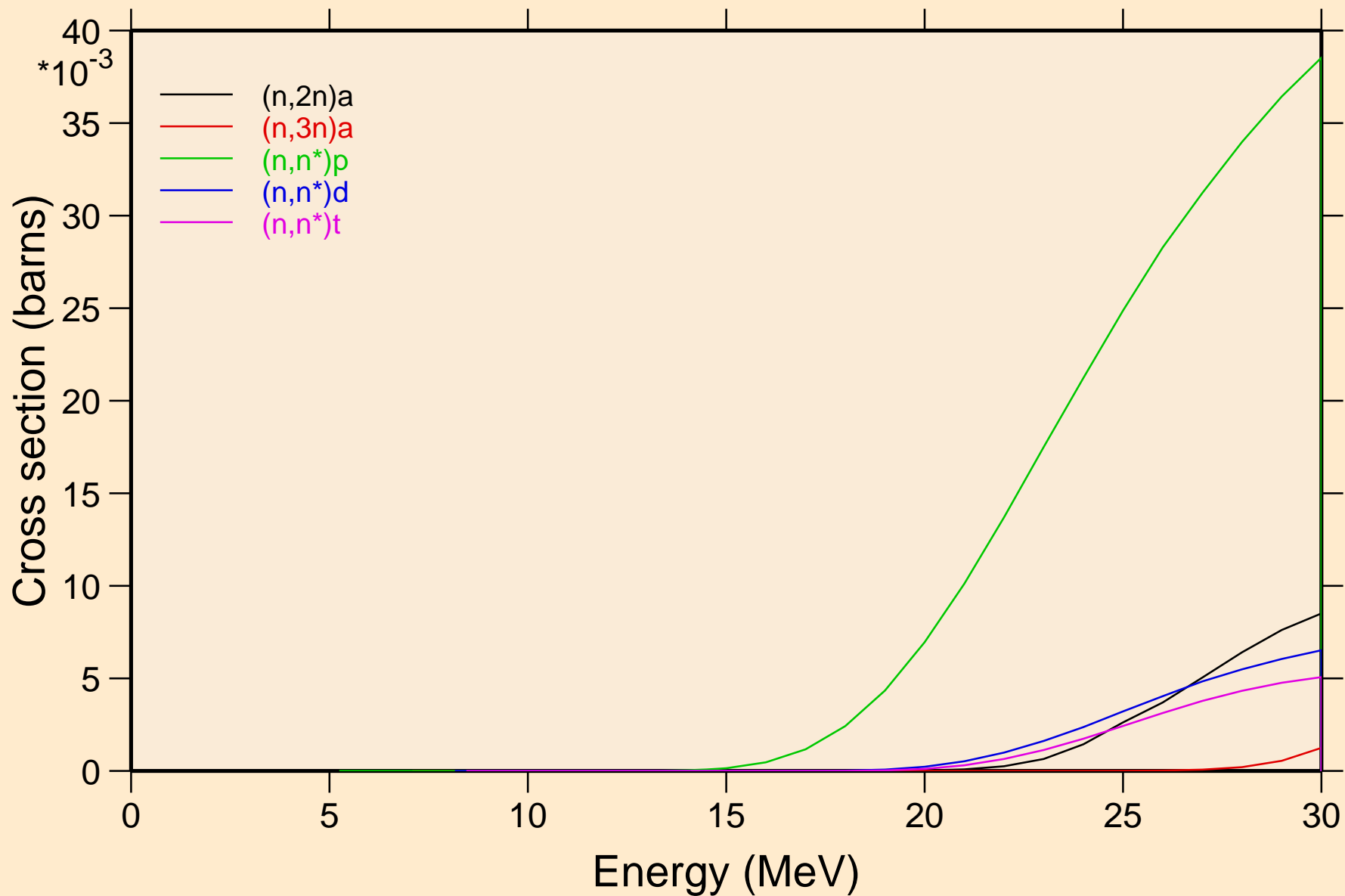
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Inelastic levels



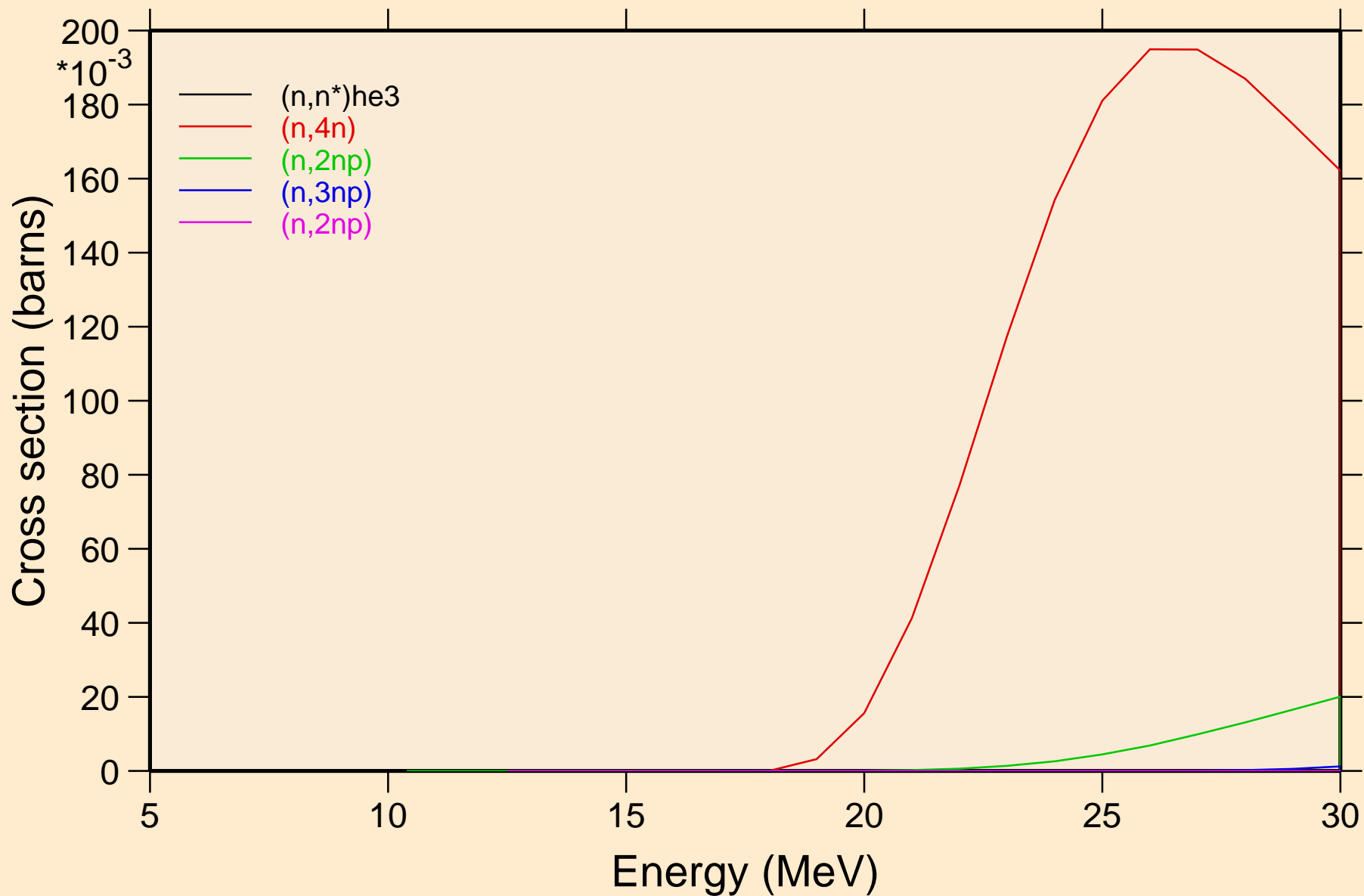
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



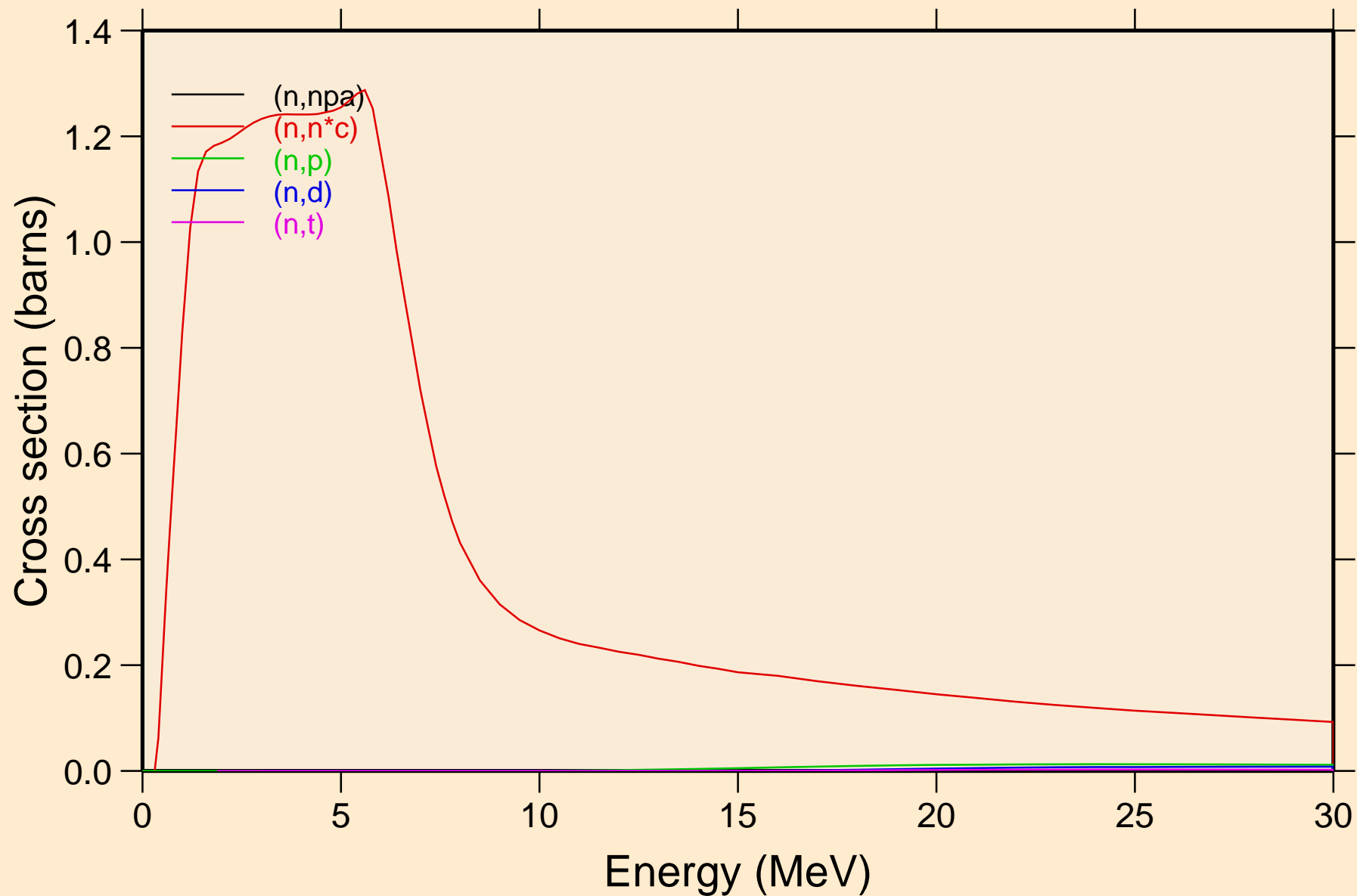
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

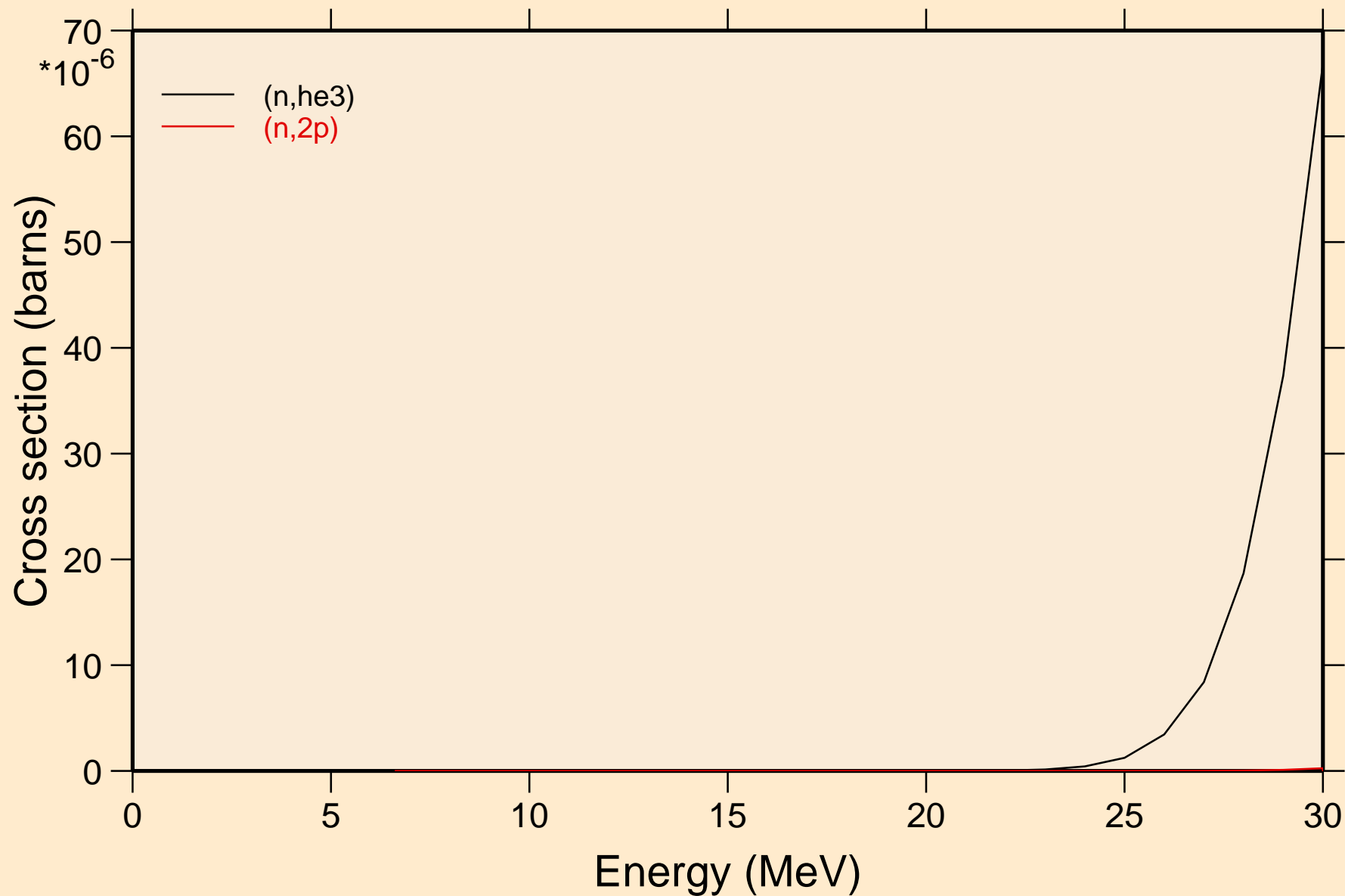


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

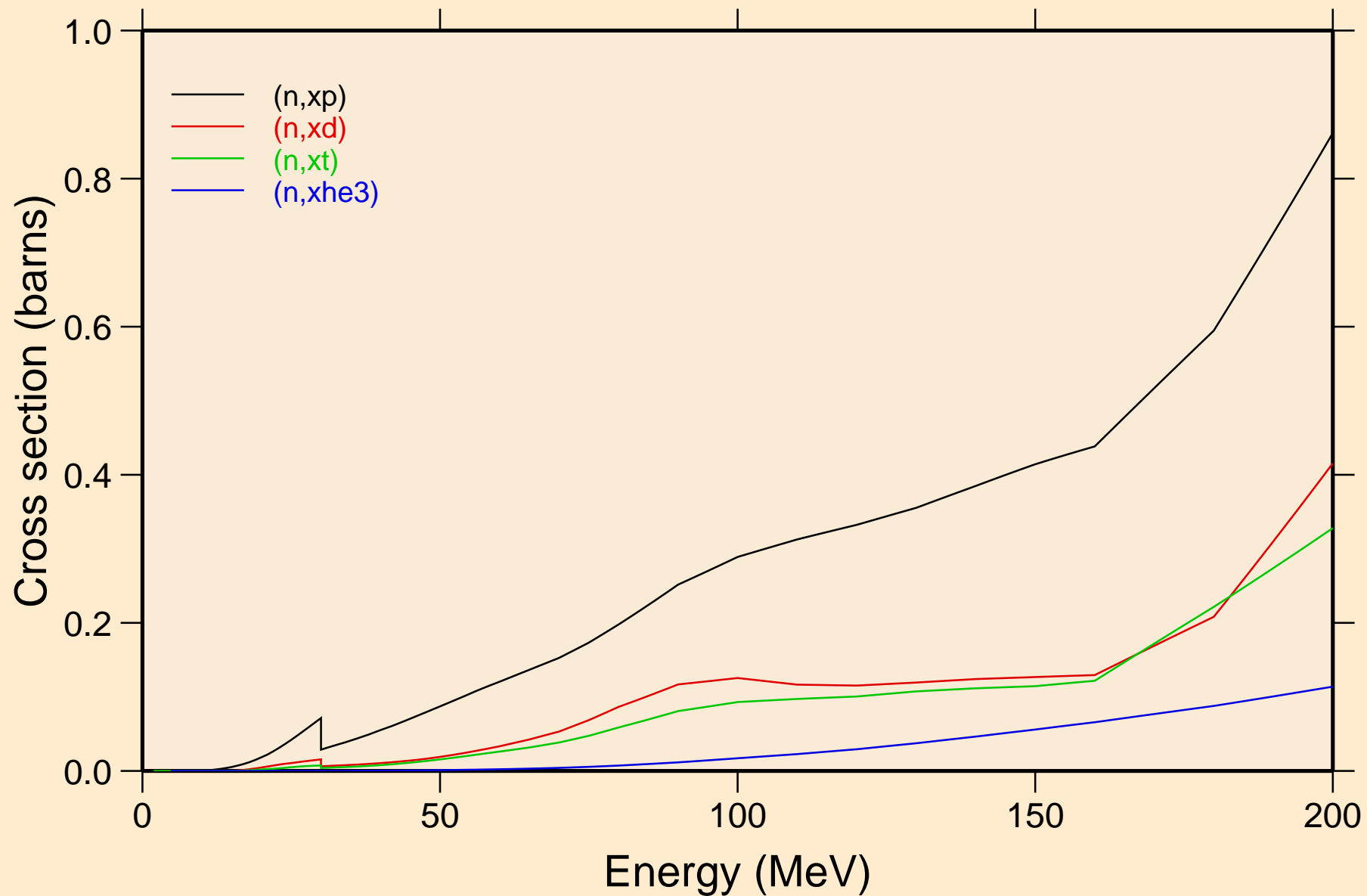




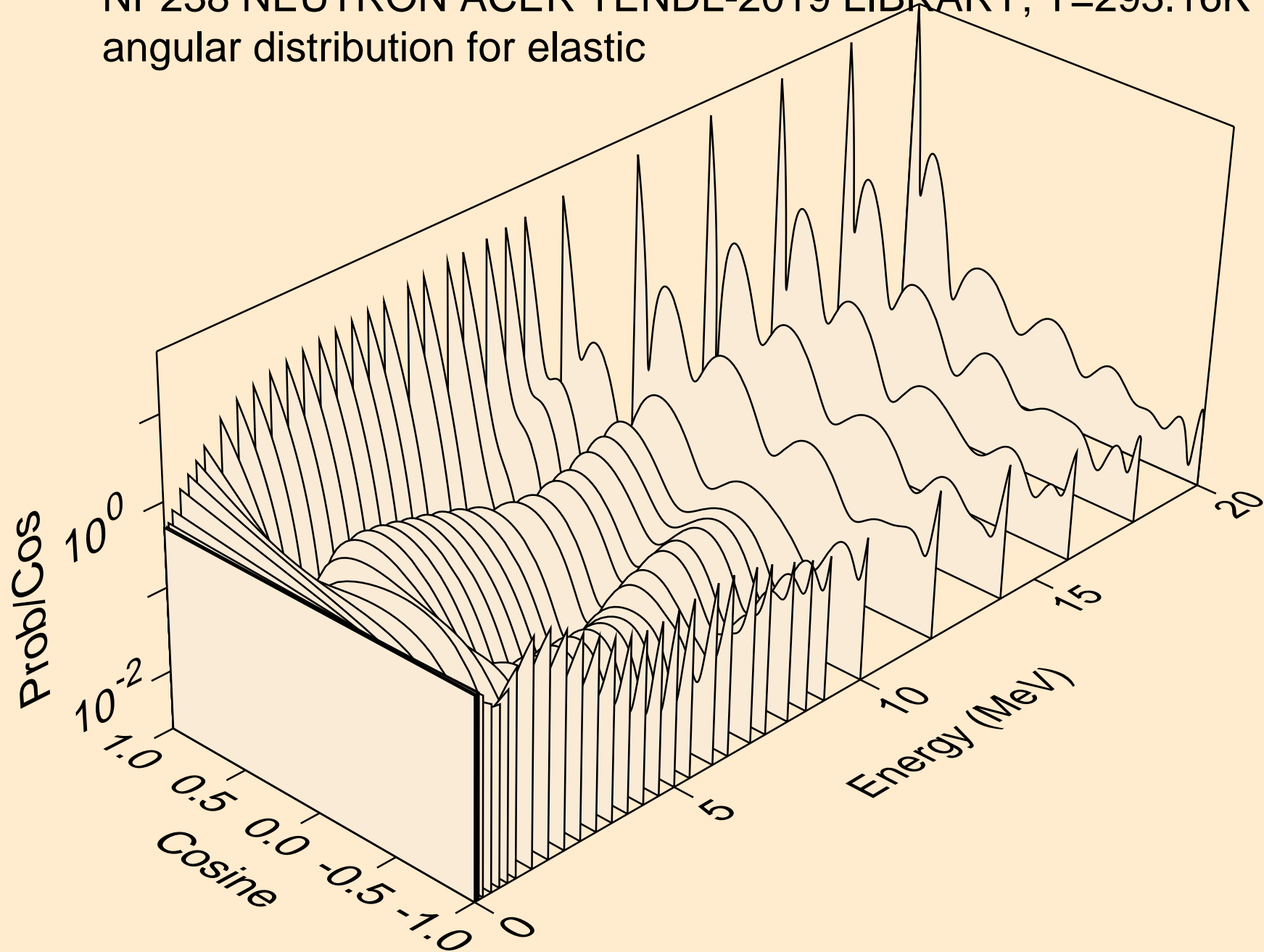
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



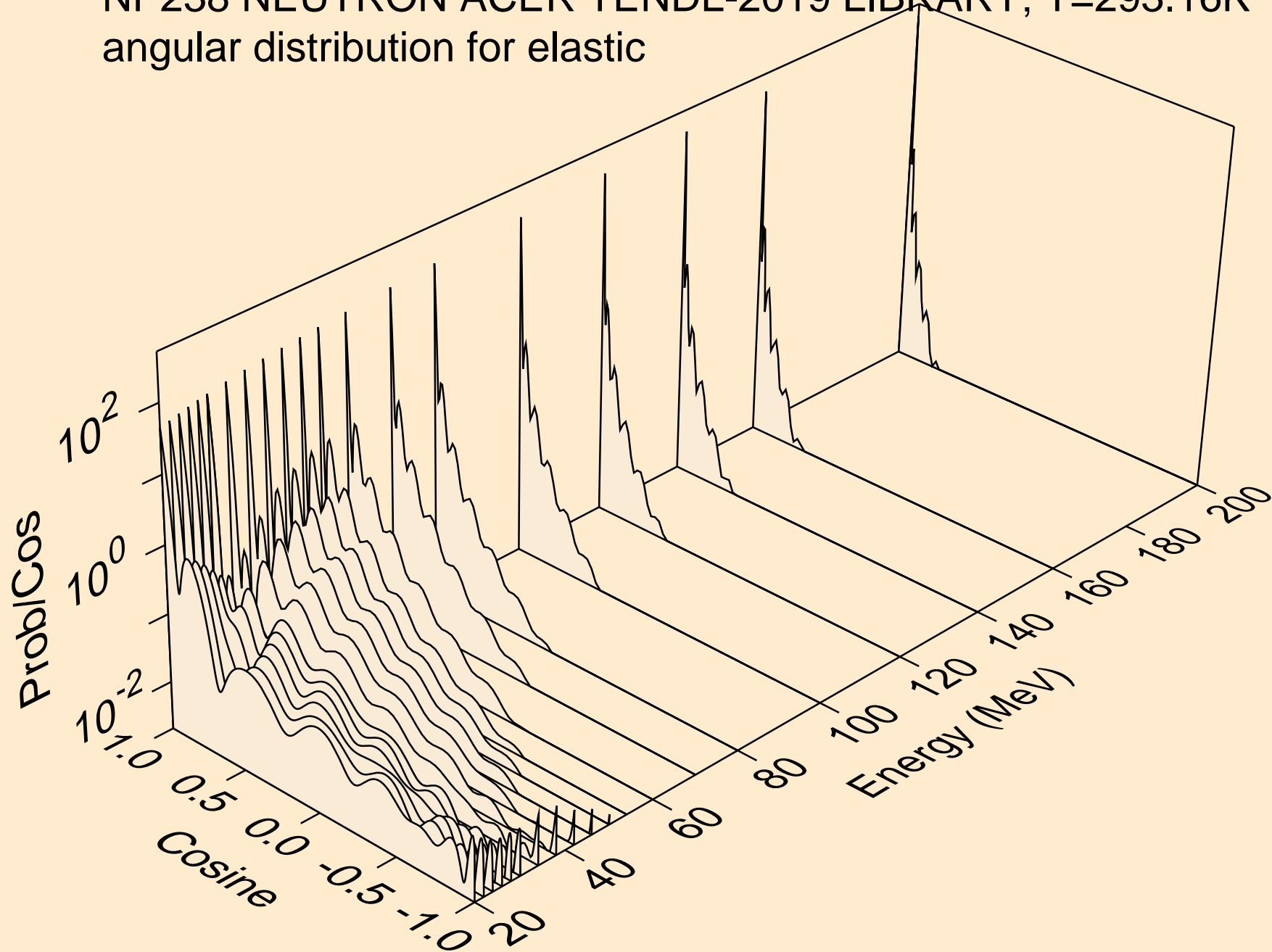
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



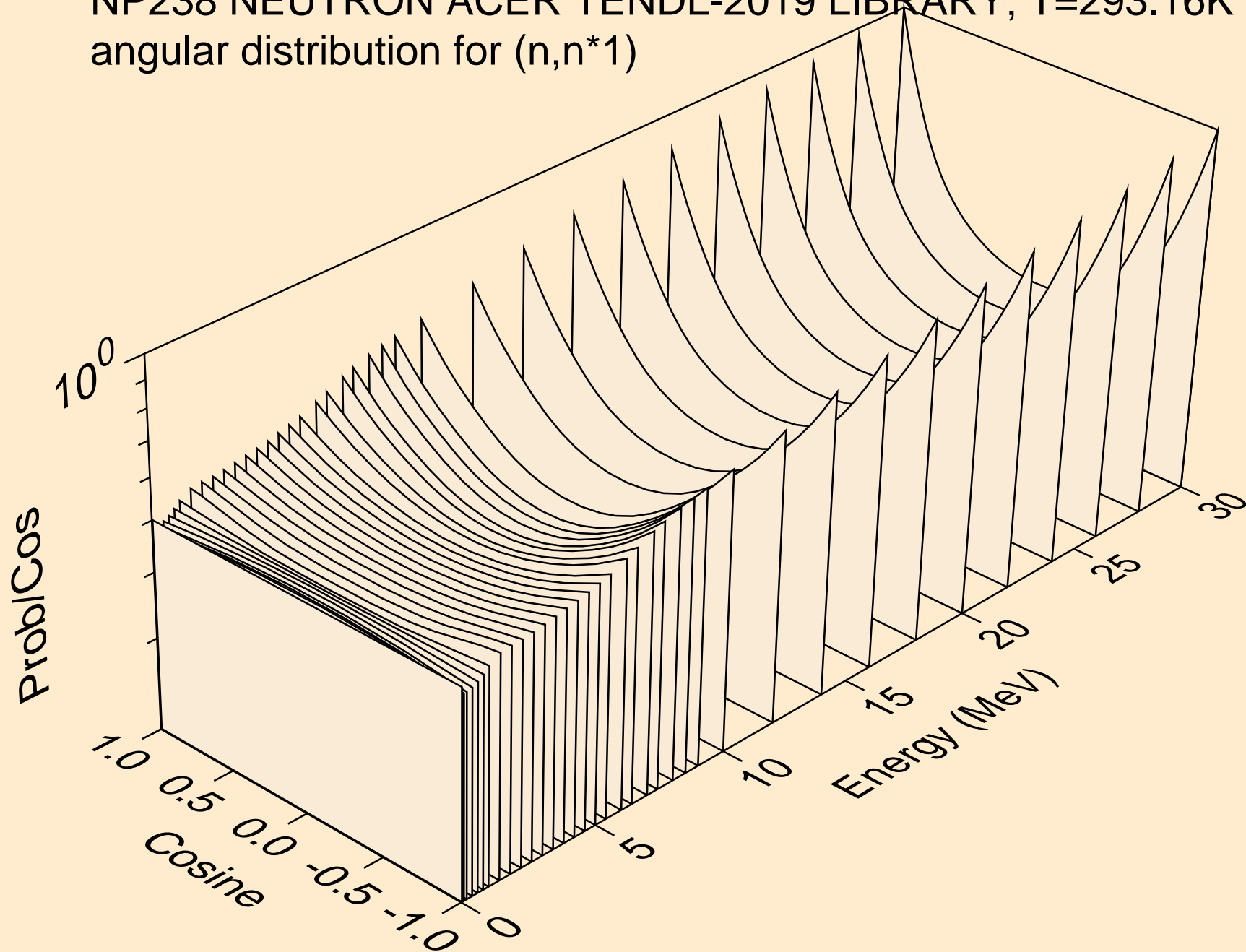
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



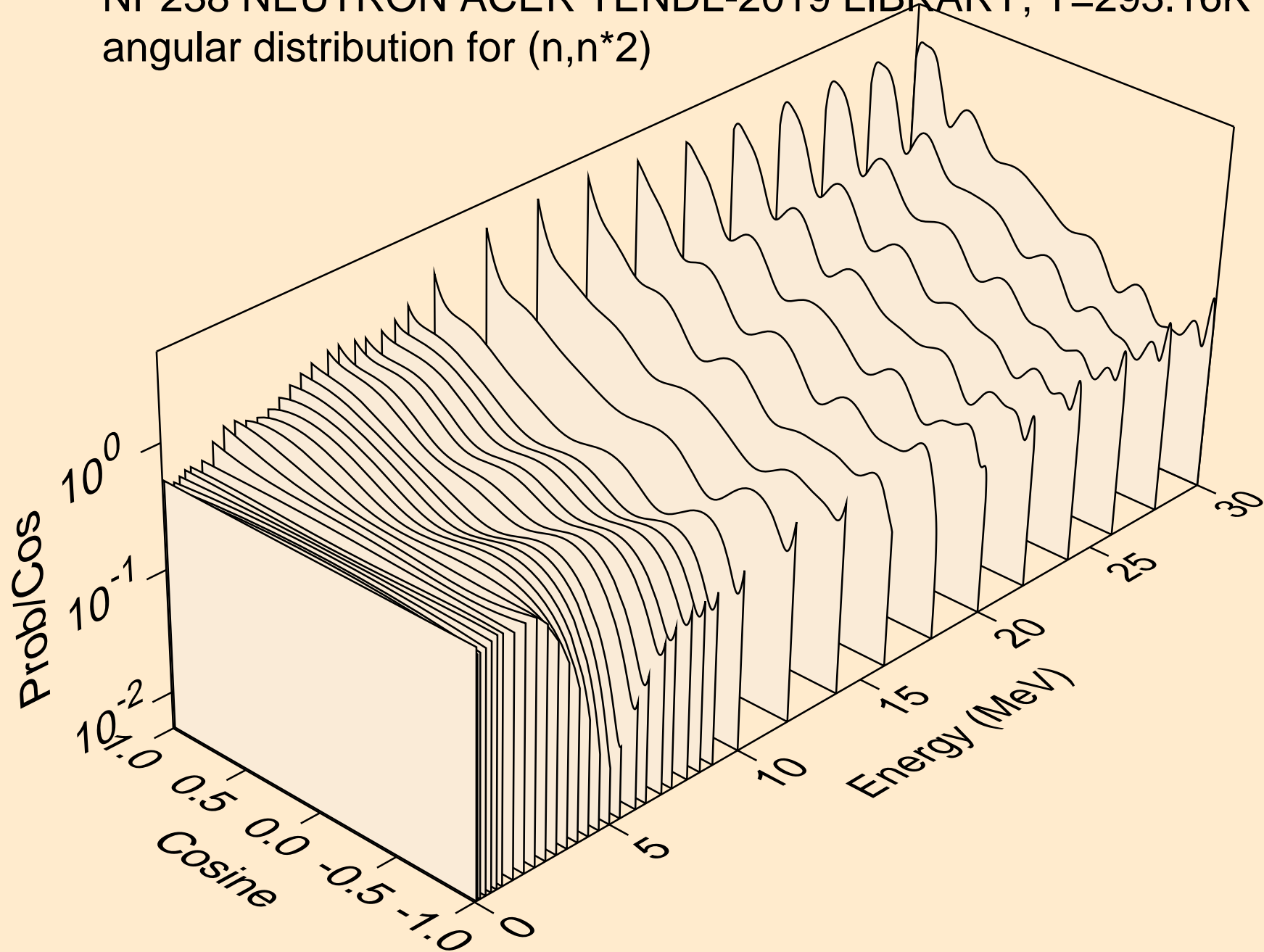
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angular distribution for elastic



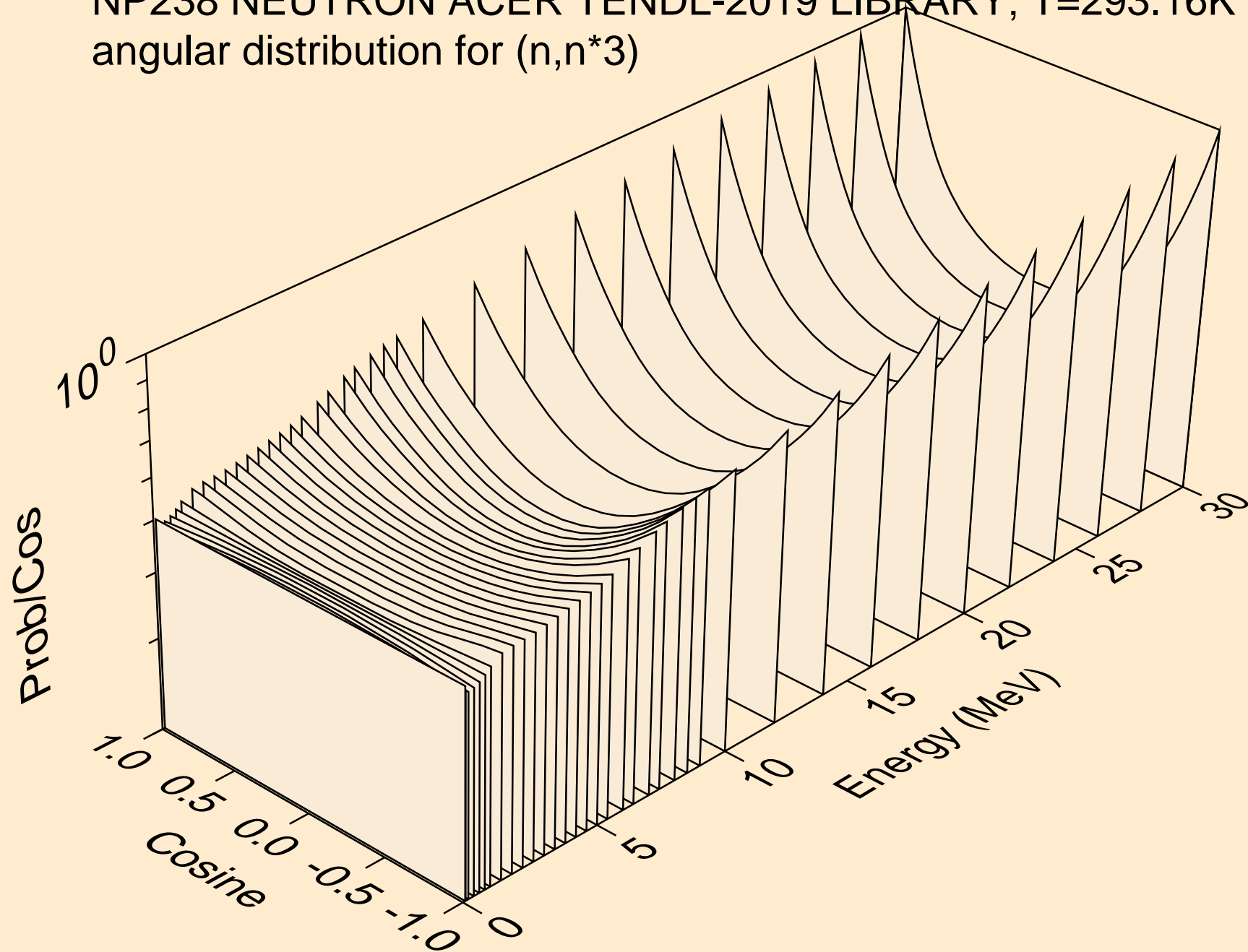
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angular distribution for (n,n\*1)



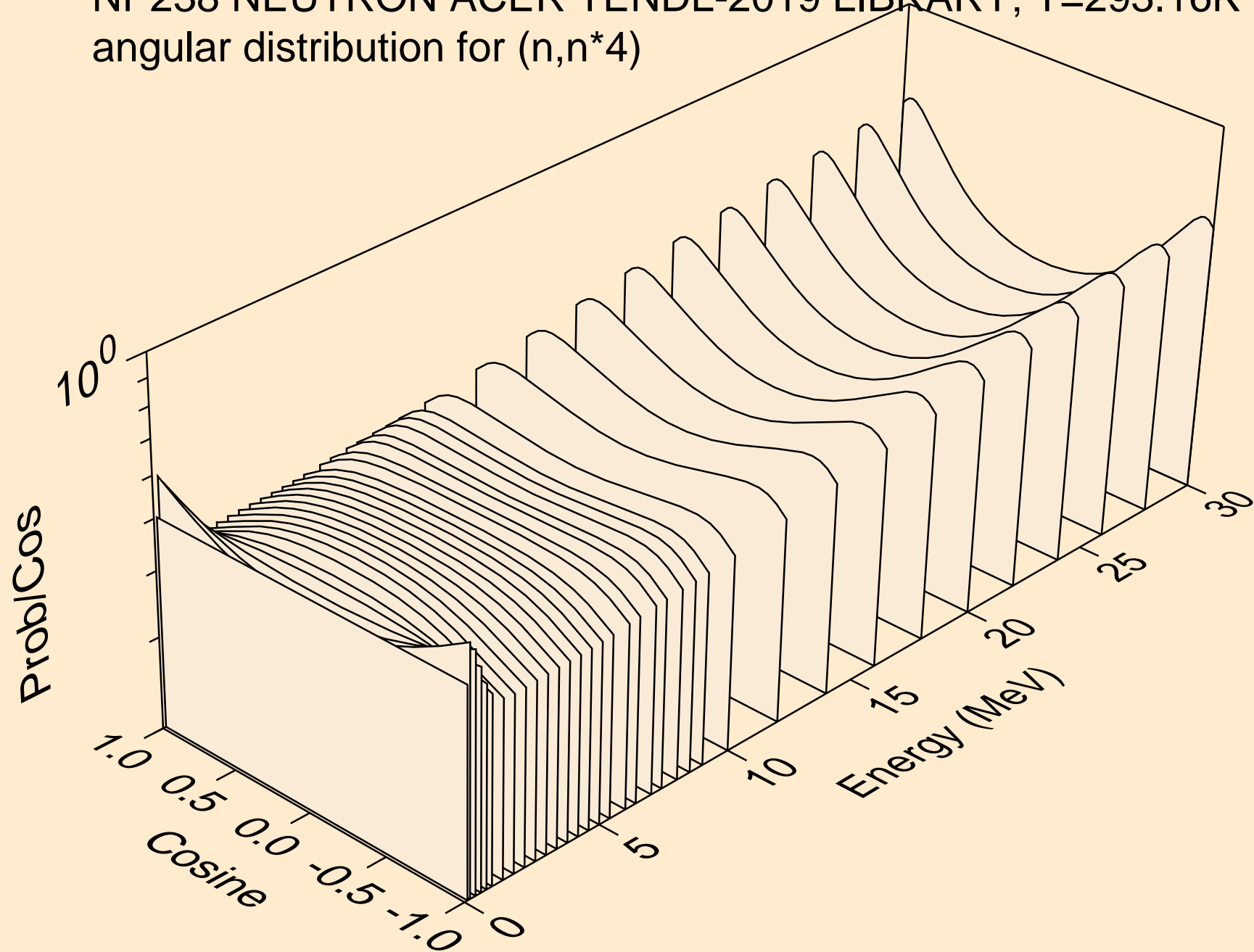
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*2)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)

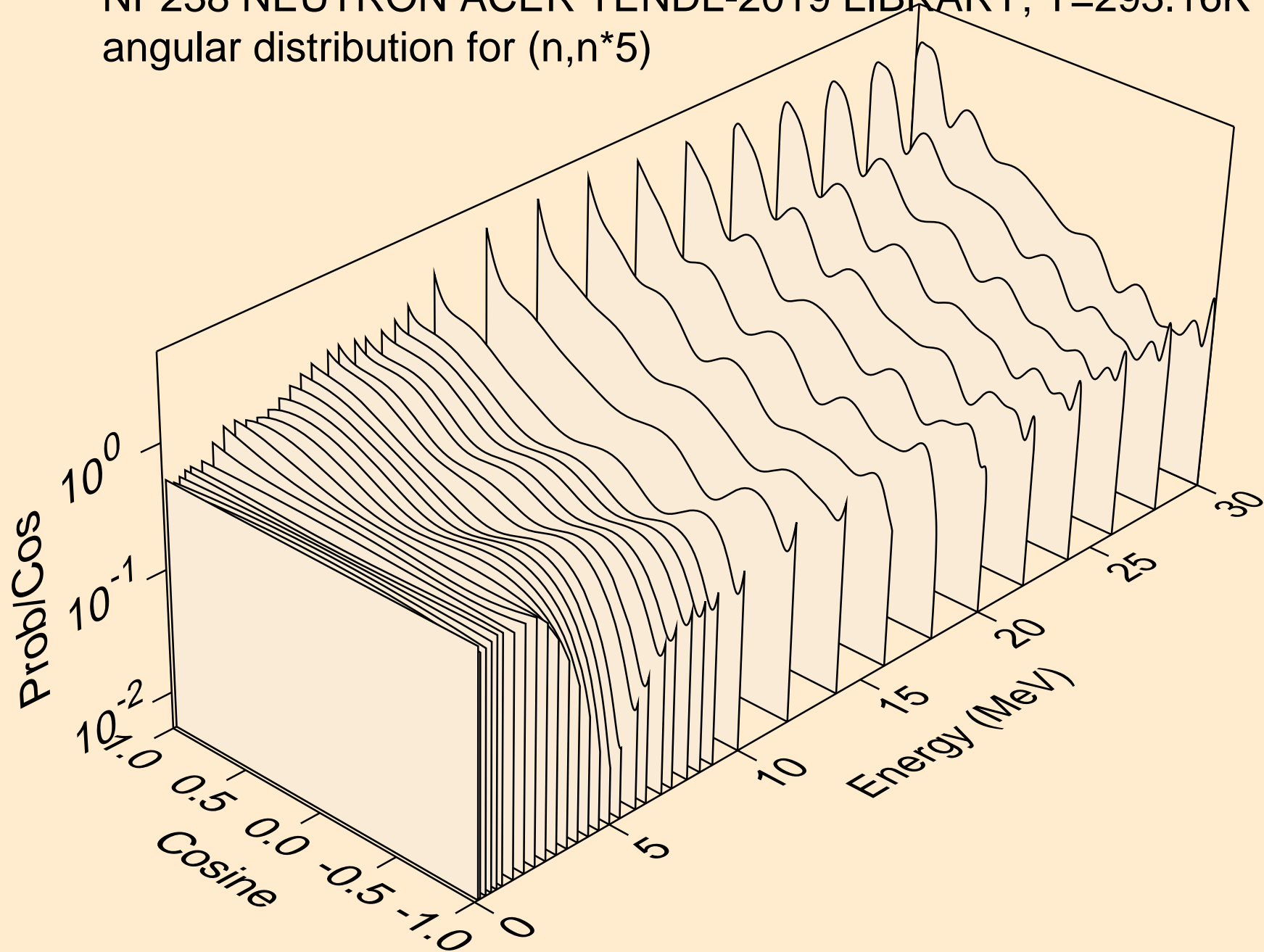


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angular distribution for (n,n\*4)

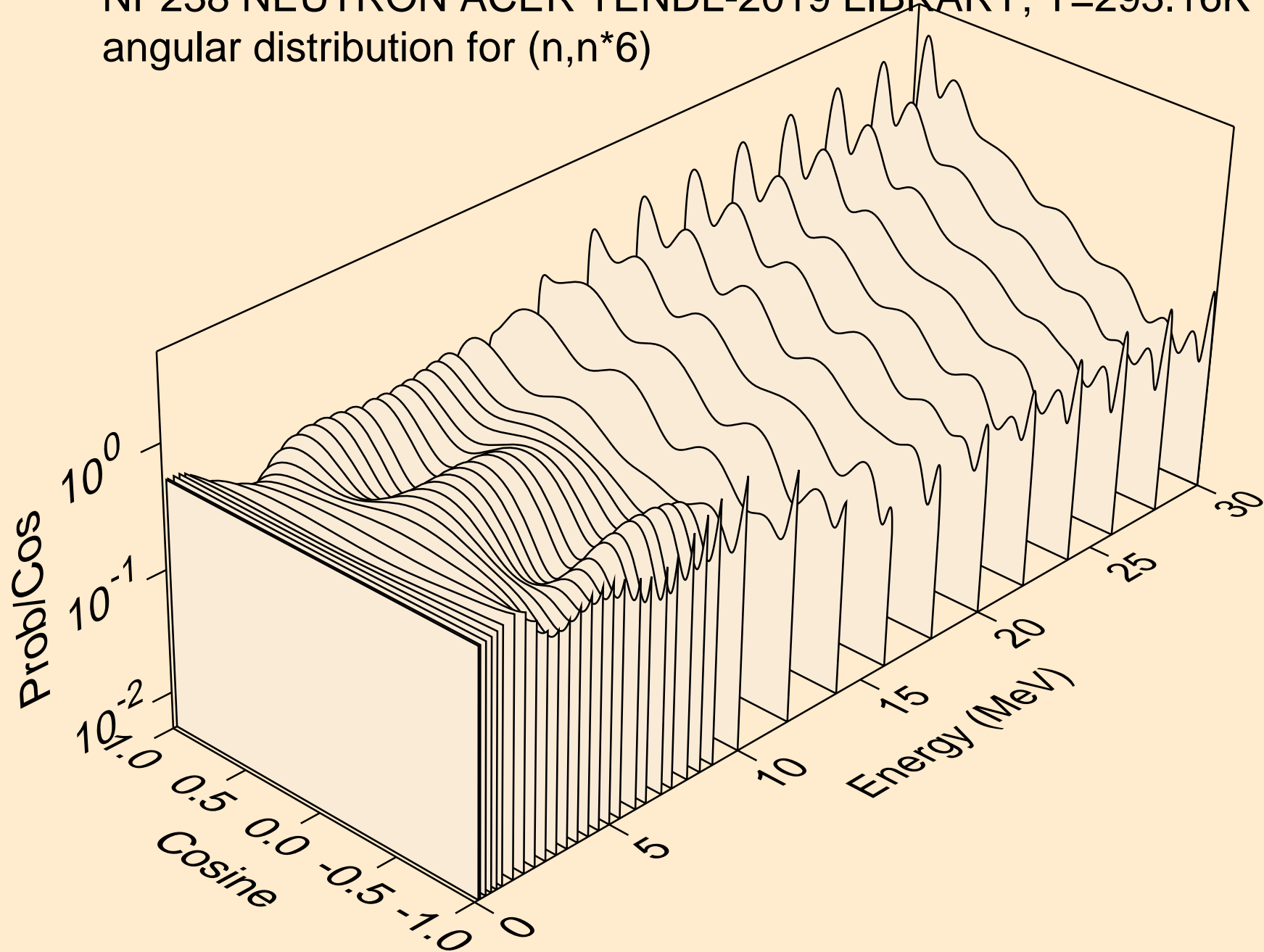




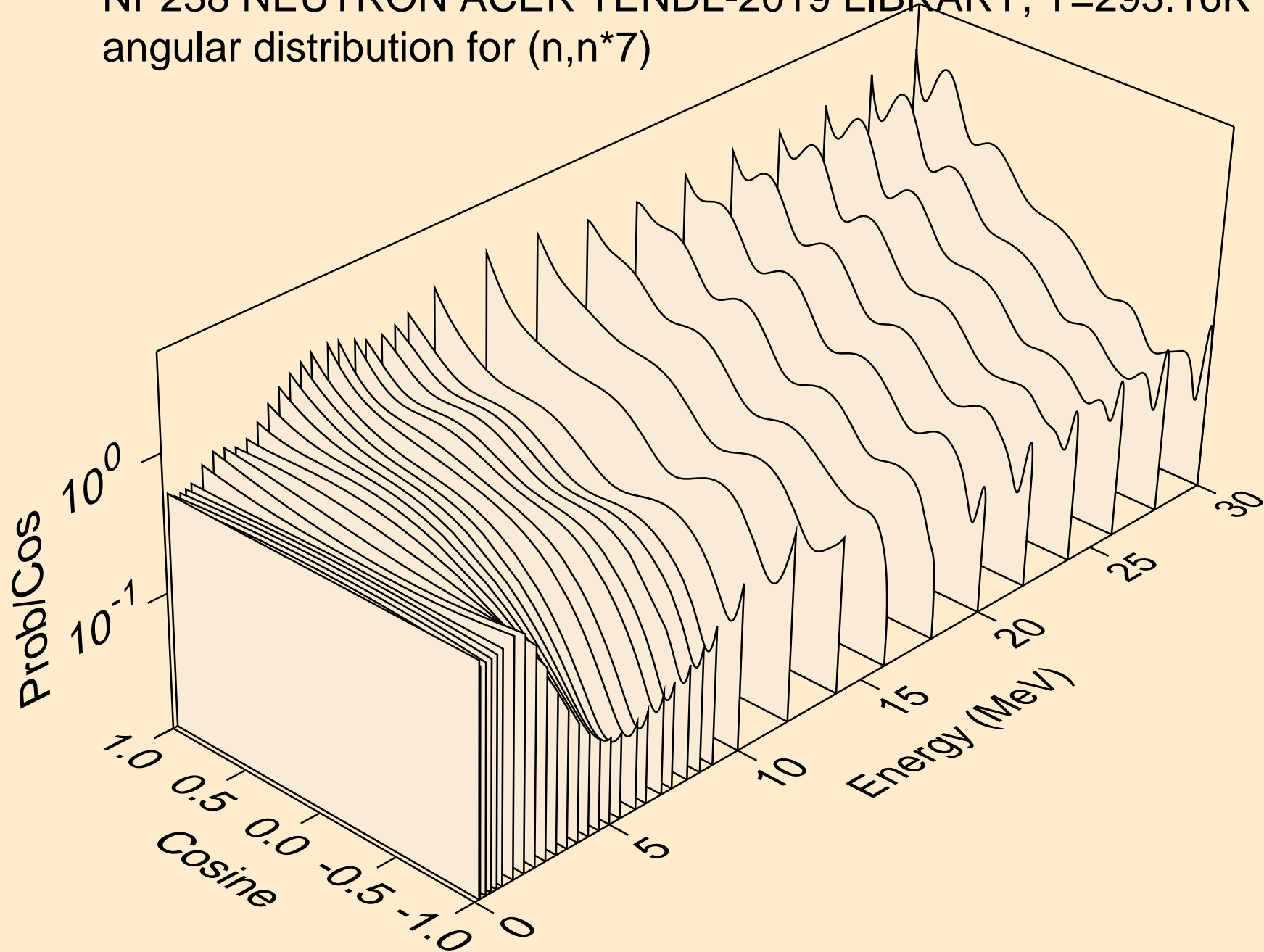
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angular distribution for (n,n\*5)



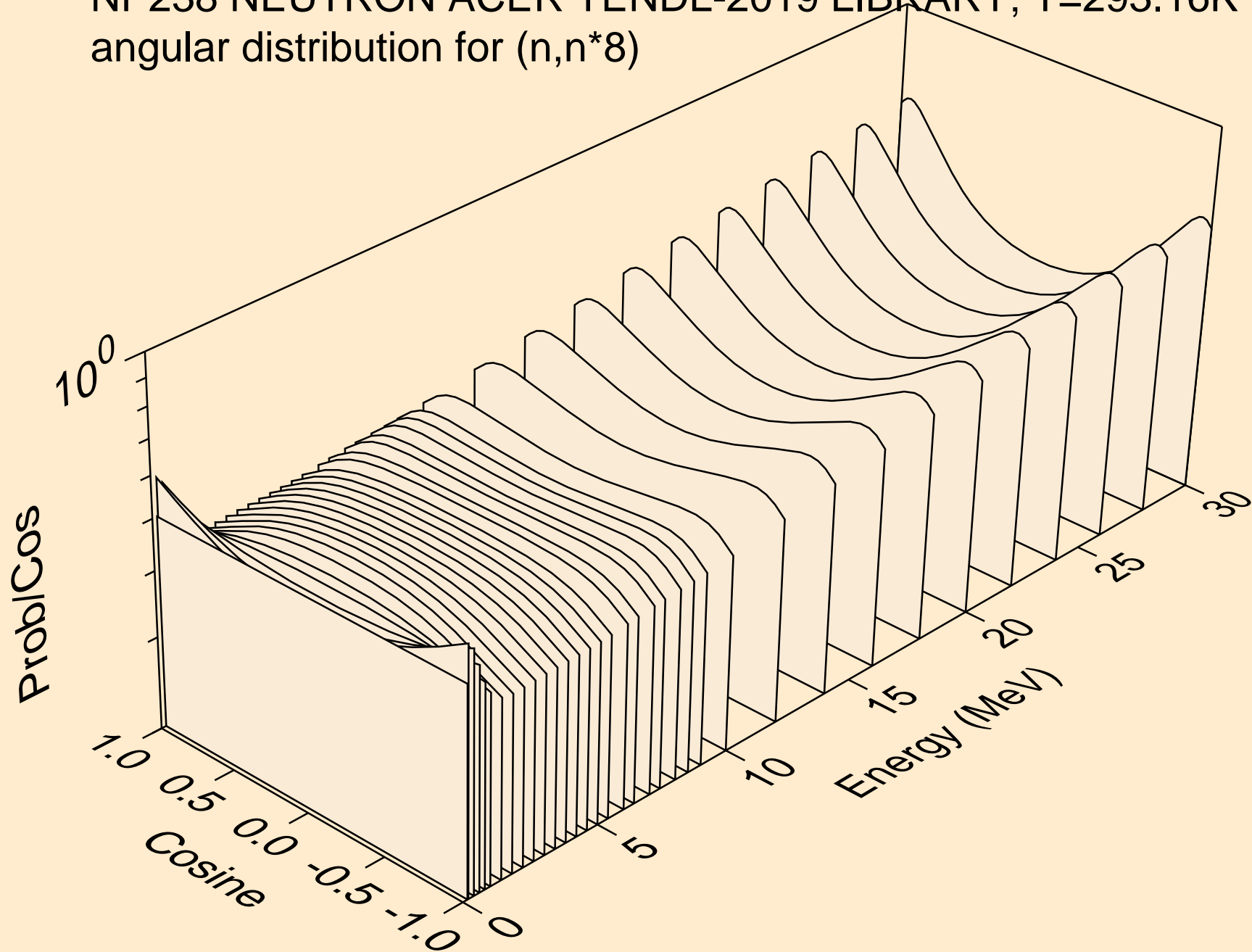
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angular distribution for (n,n\*6)



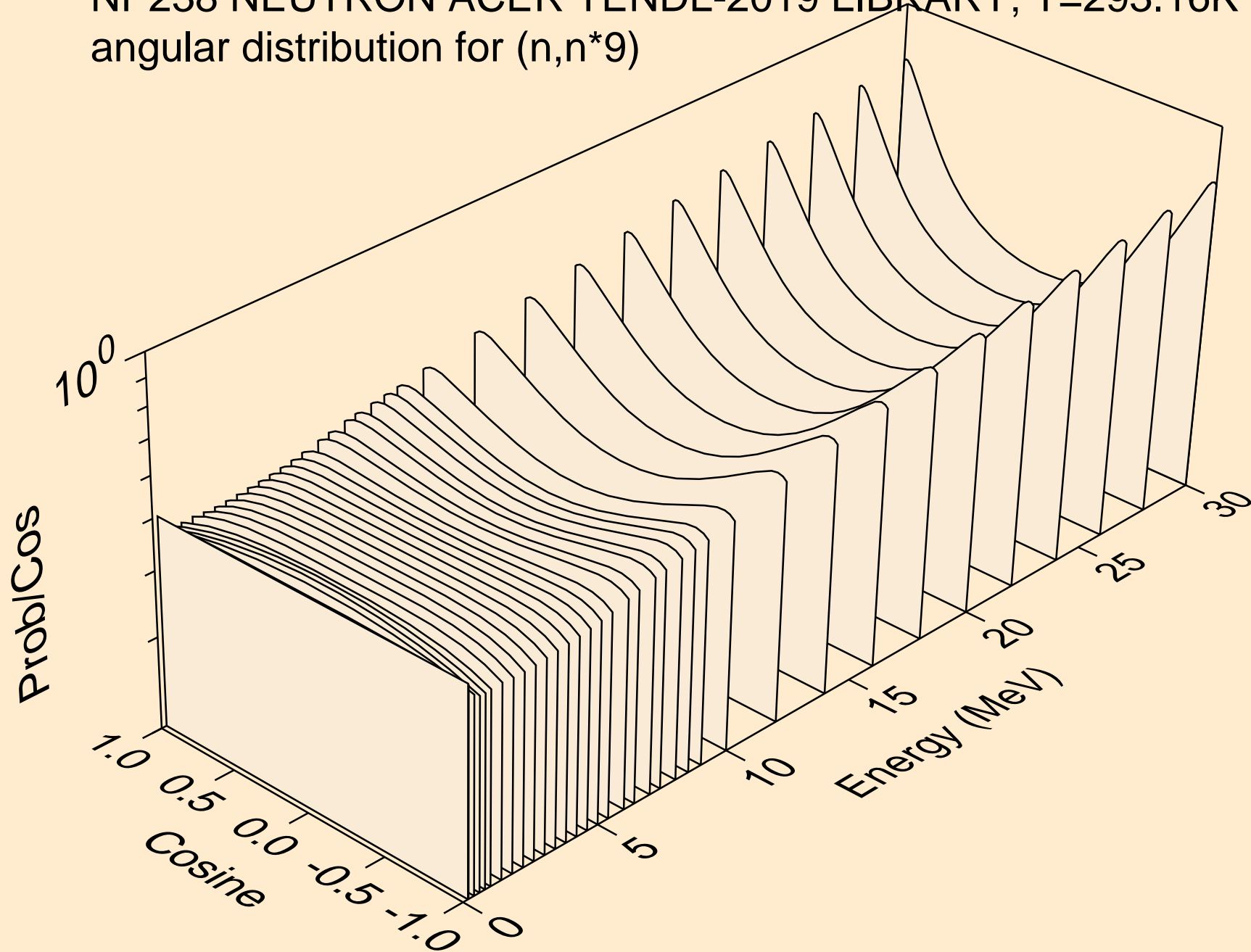
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angular distribution for (n,n\*7)



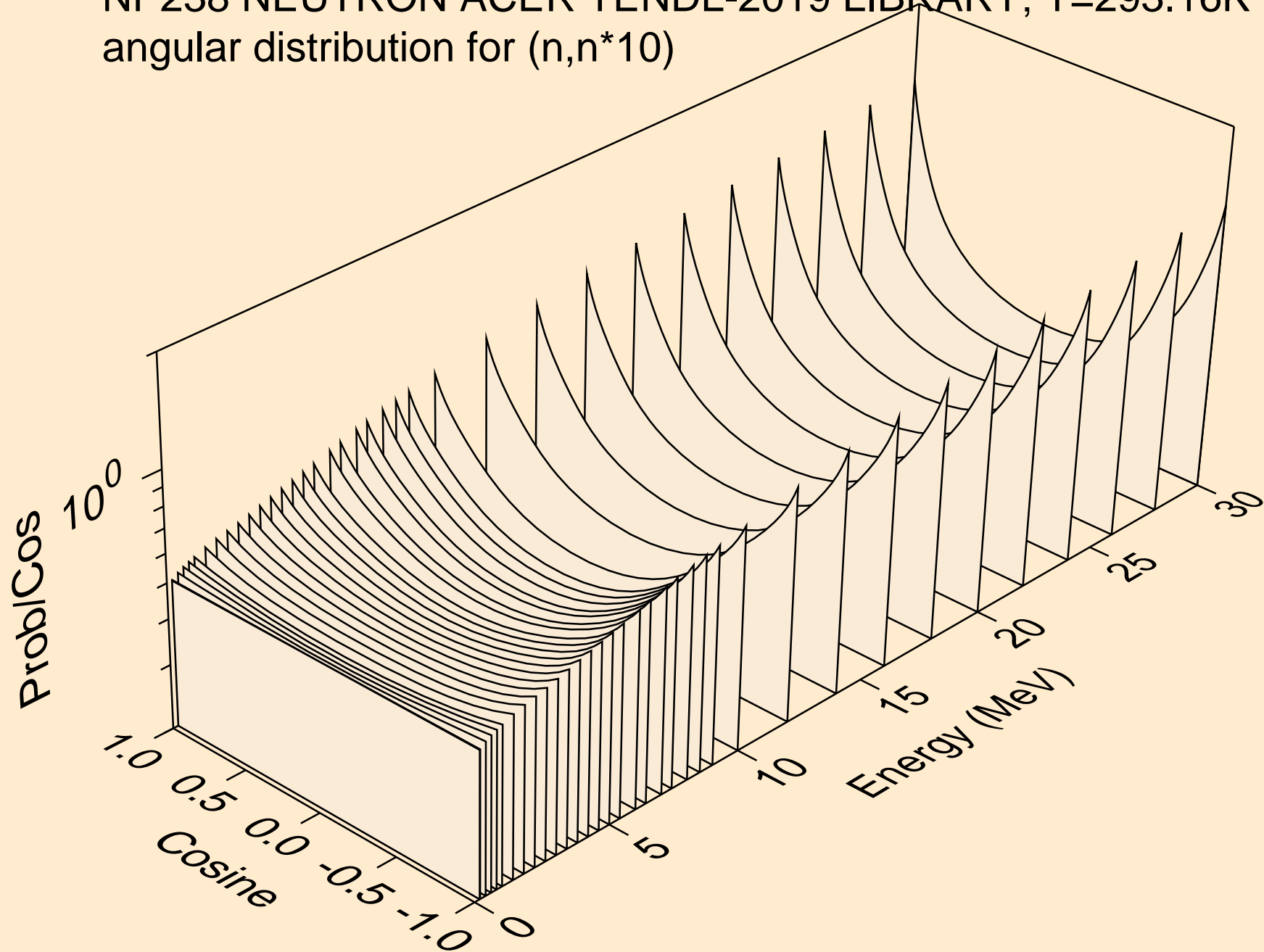
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angular distribution for (n,n\*8)



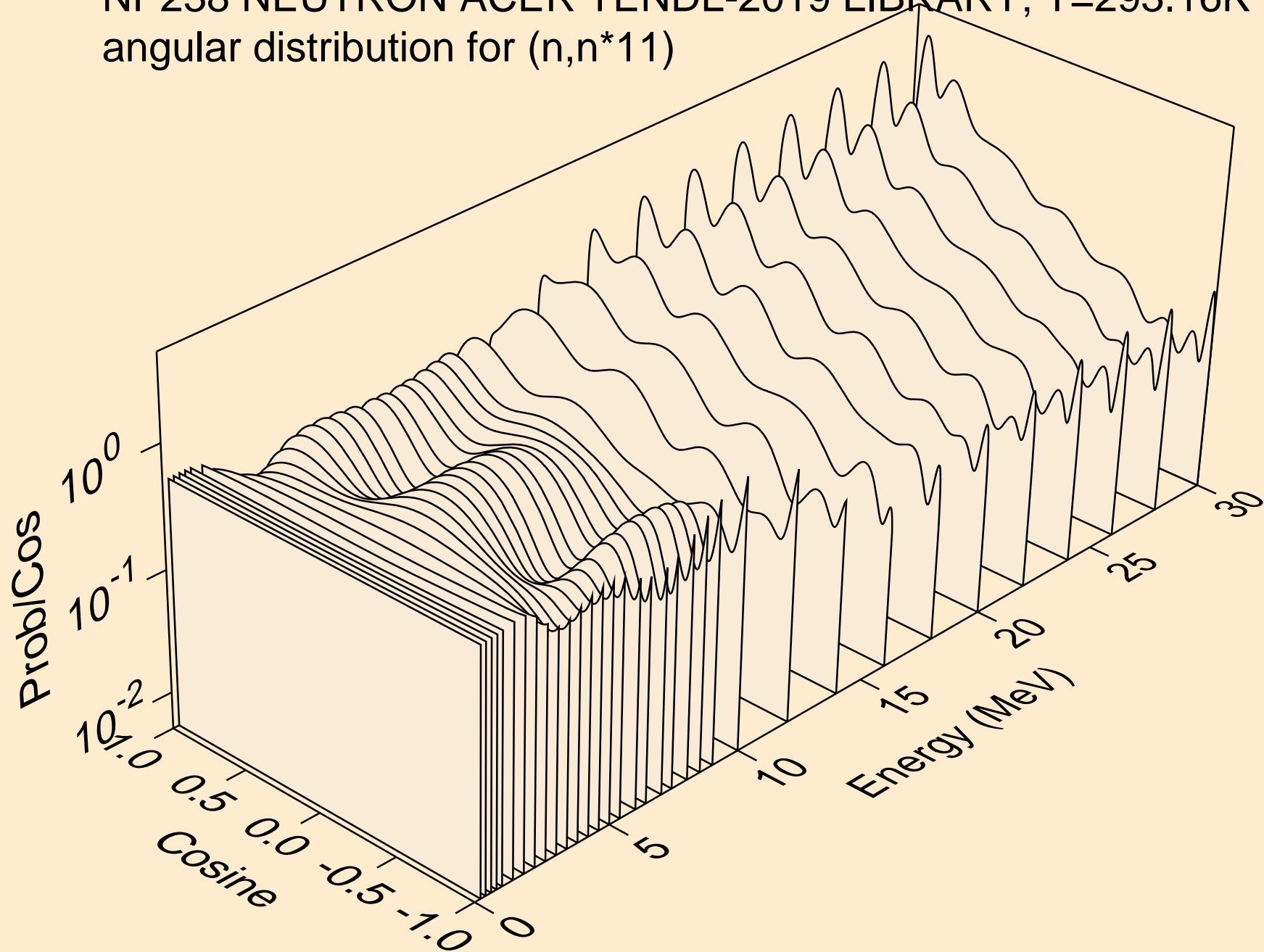
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angular distribution for (n,n\*9)



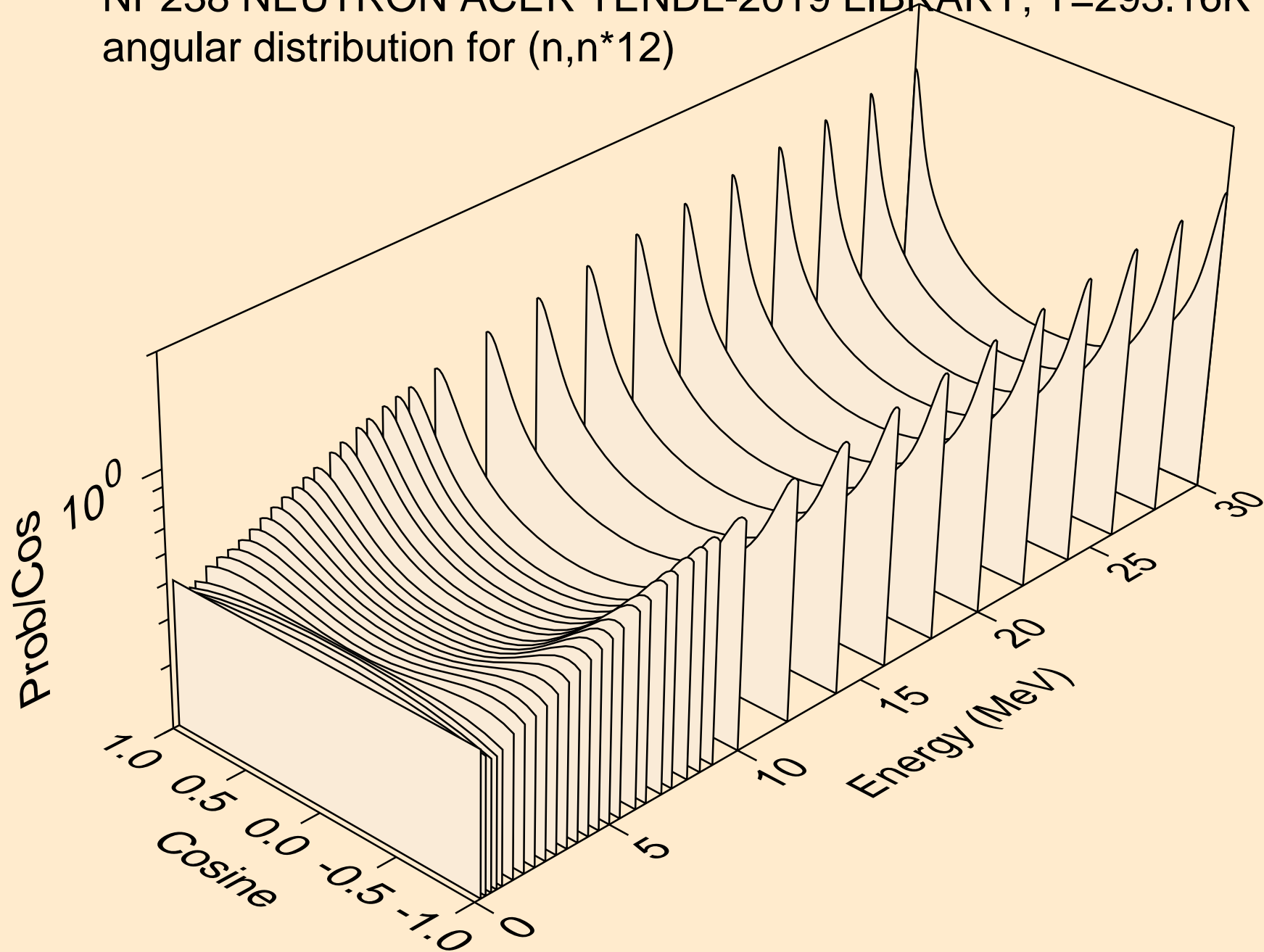
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*11)

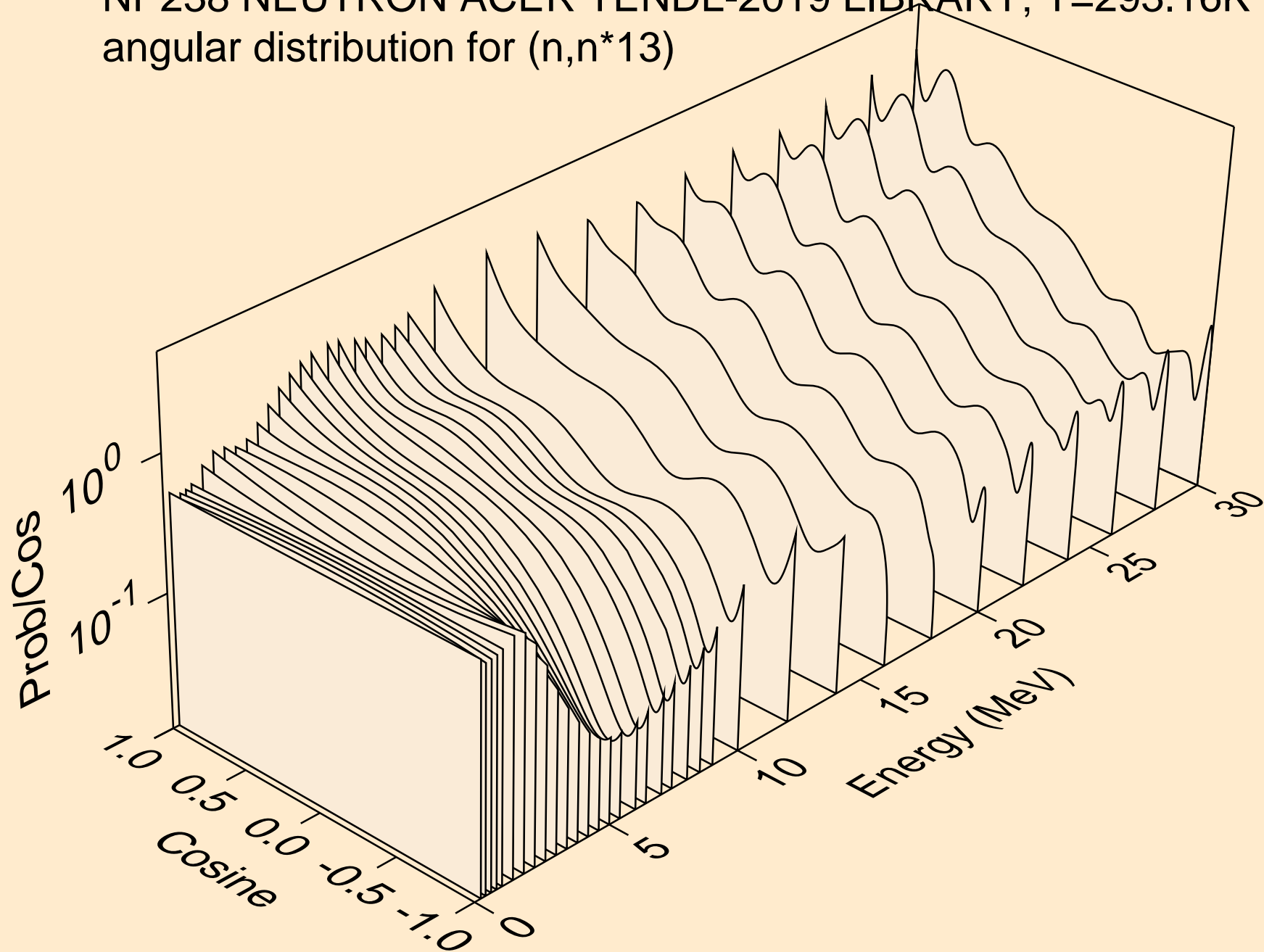


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*12)

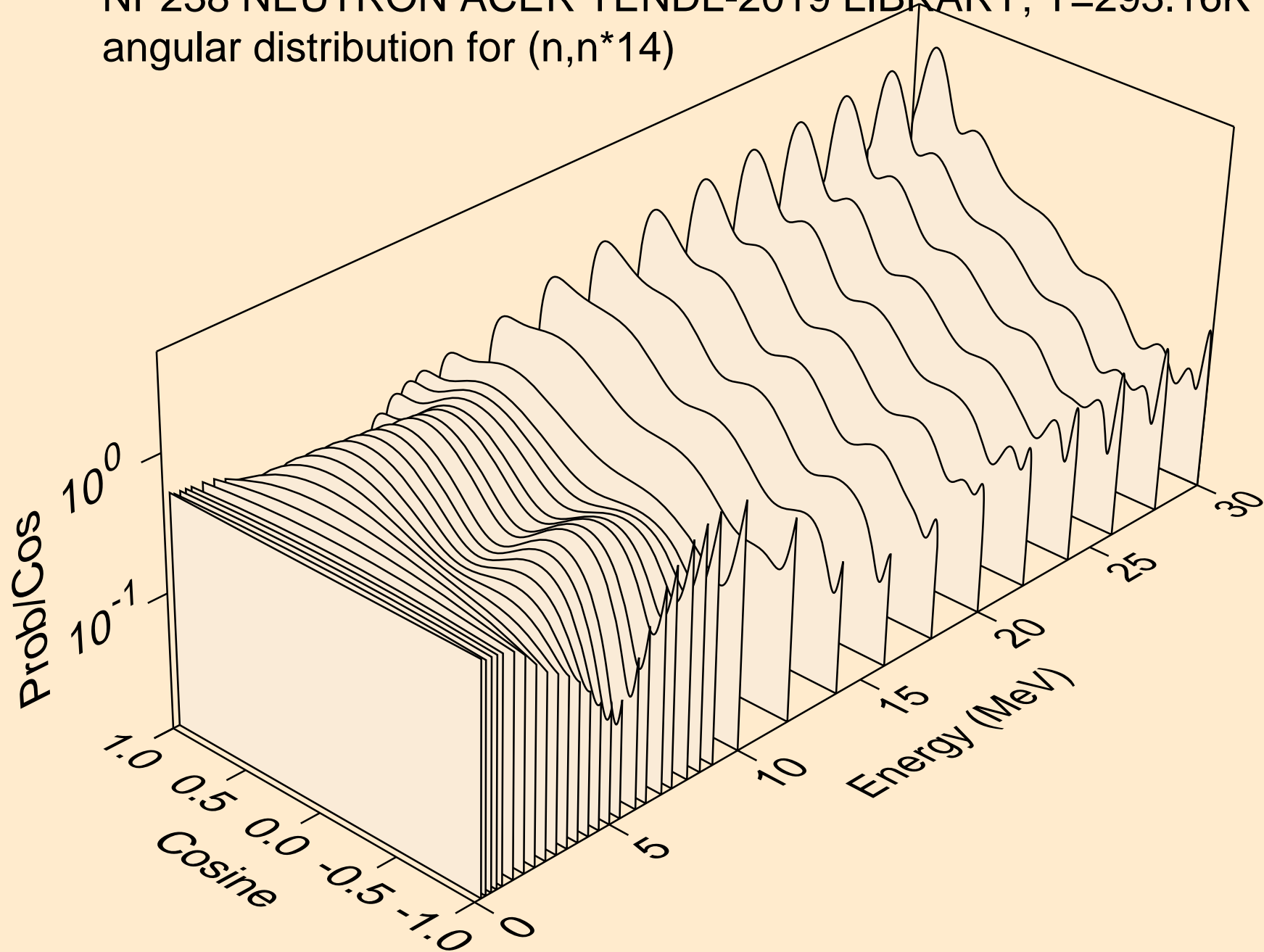




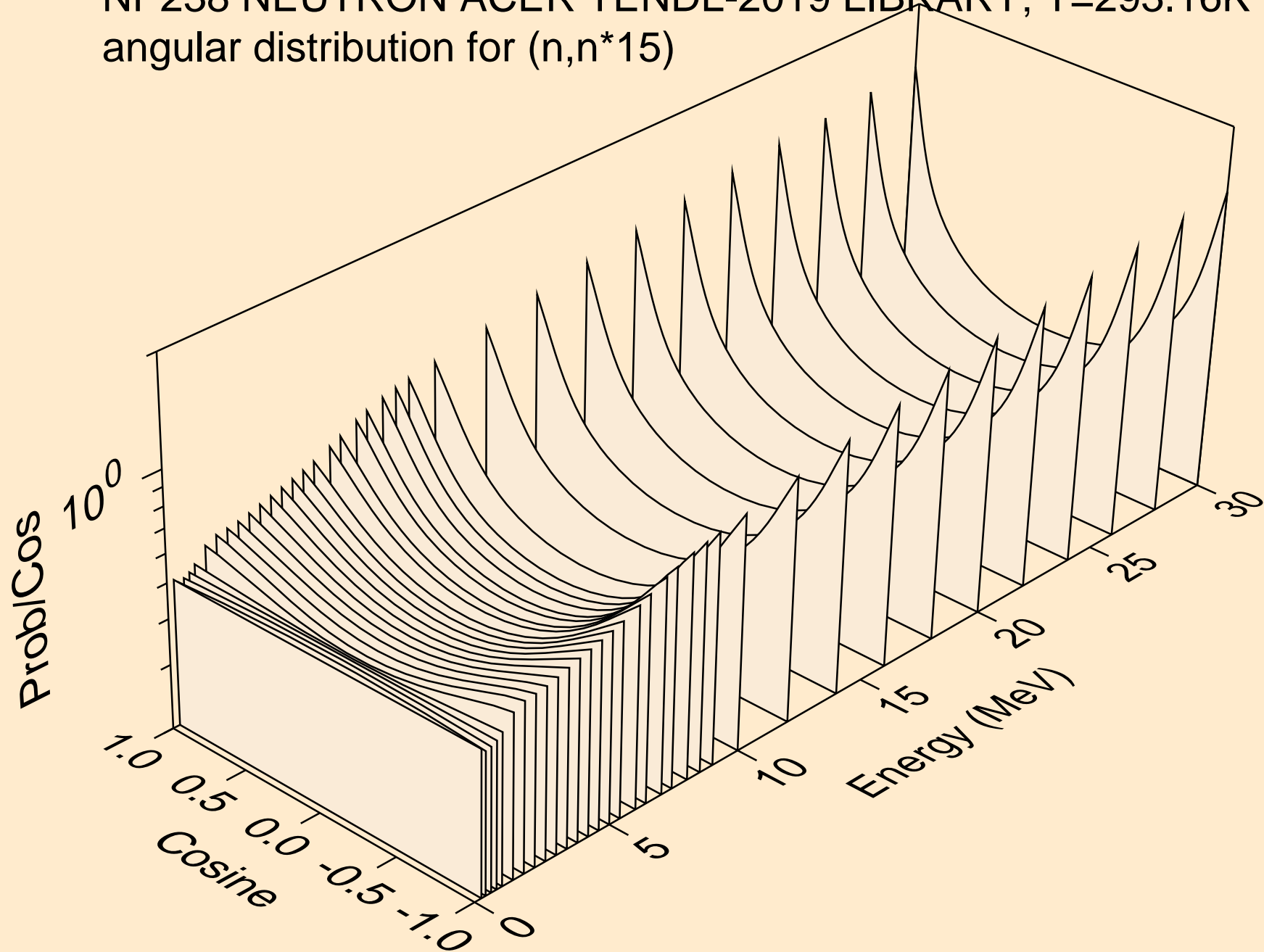
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angular distribution for (n,n\*13)



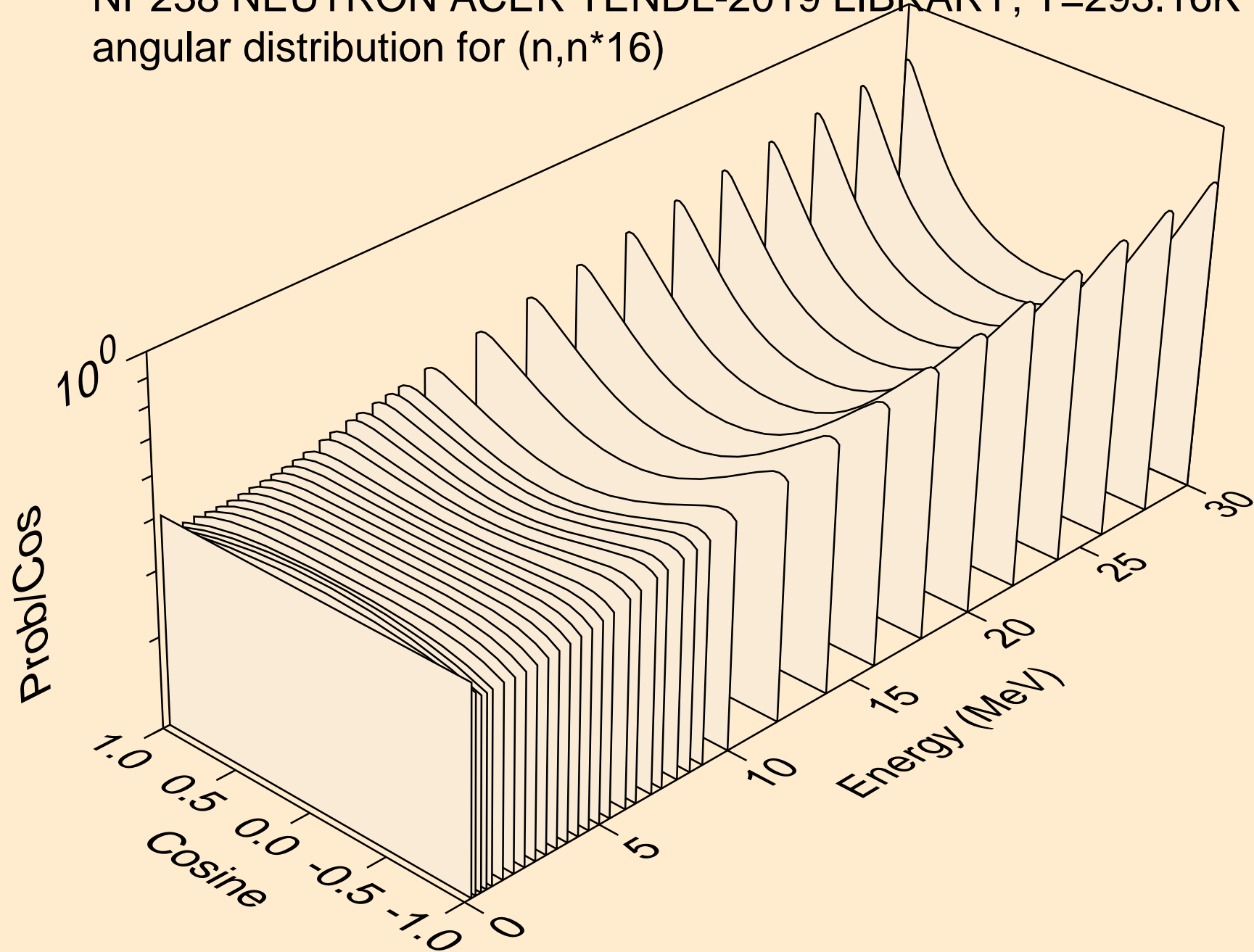
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angular distribution for (n,n\*14)



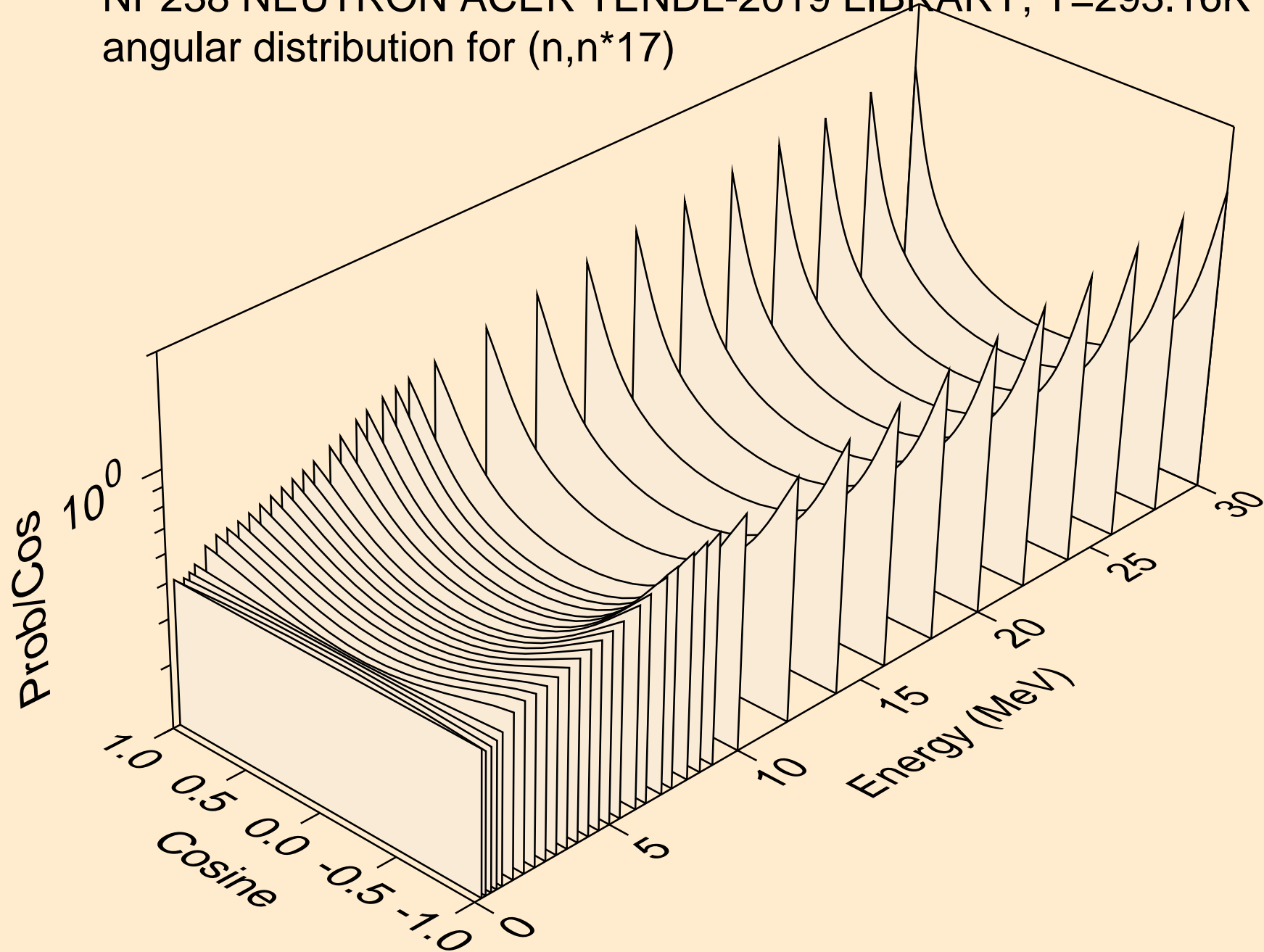
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angular distribution for (n,n\*15)



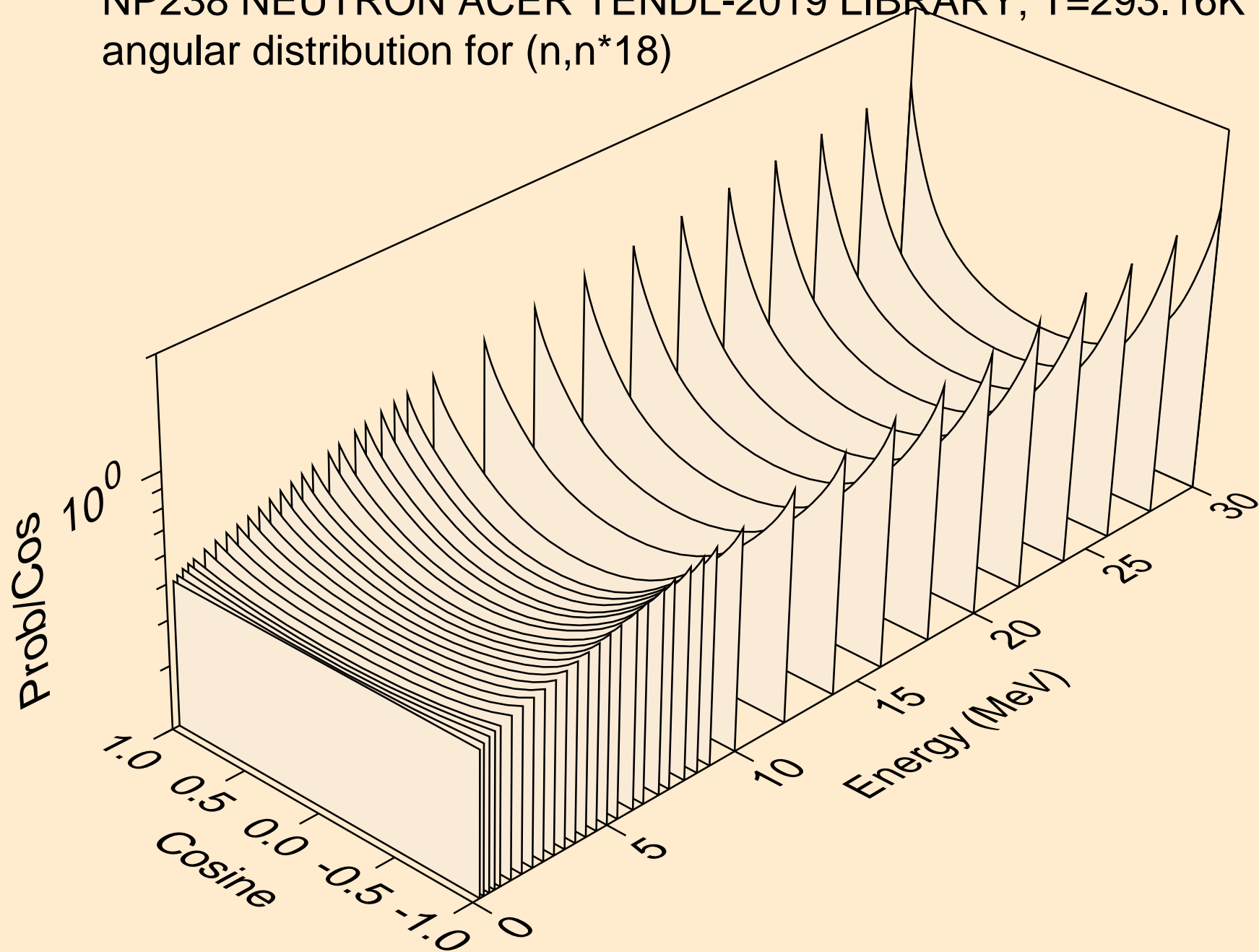
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angular distribution for (n,n\*16)



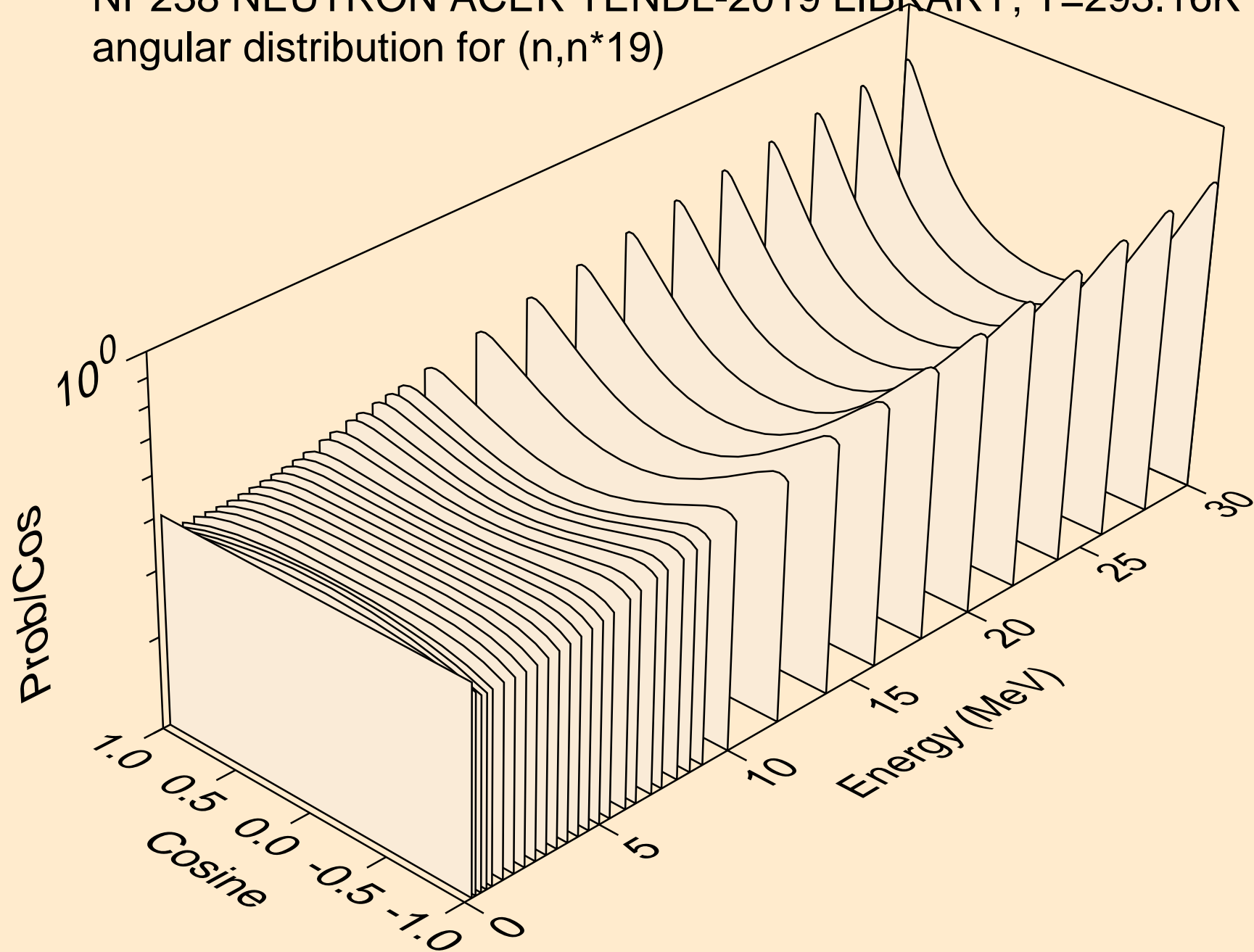
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angular distribution for (n,n\*17)



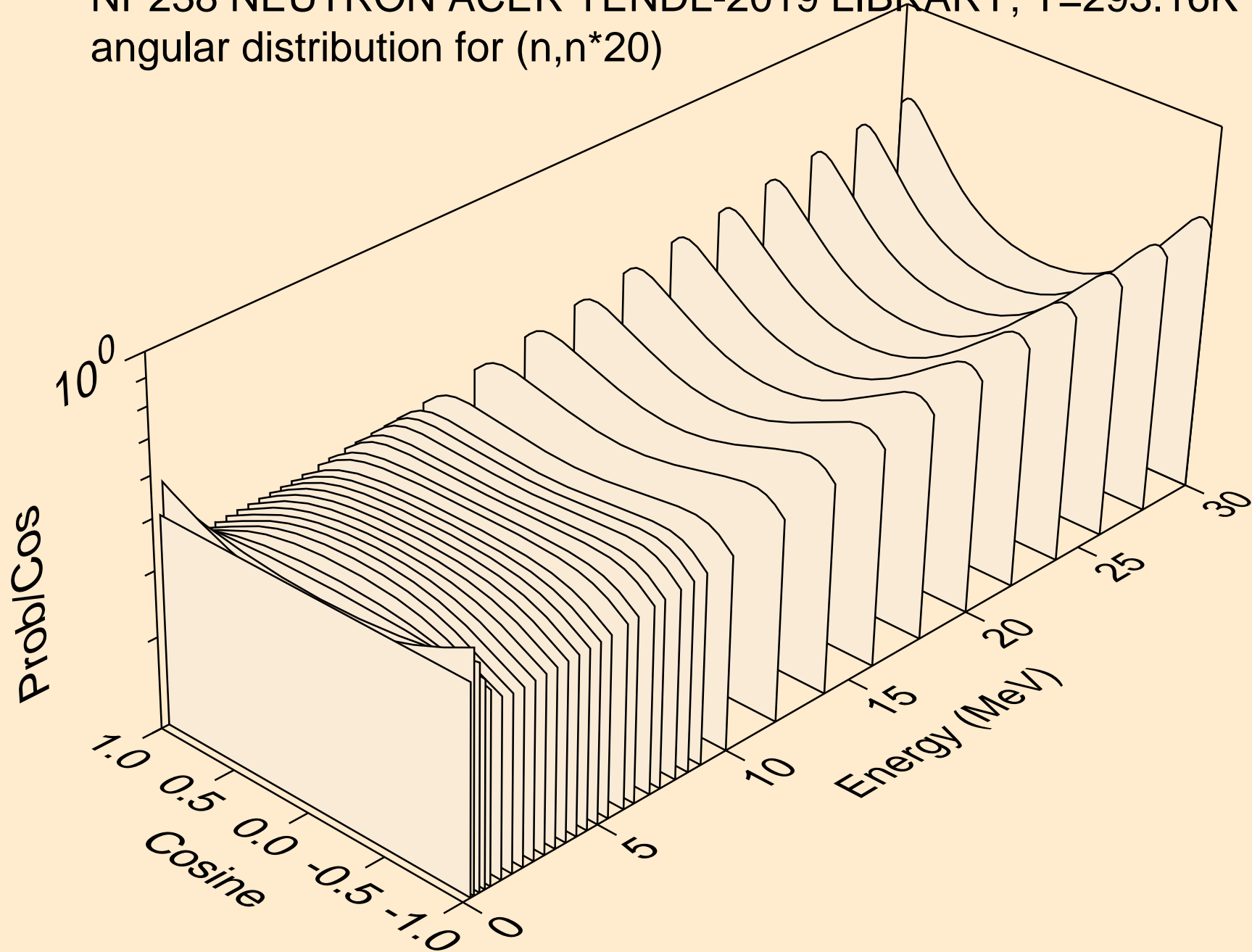
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angular distribution for (n,n\*18)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)

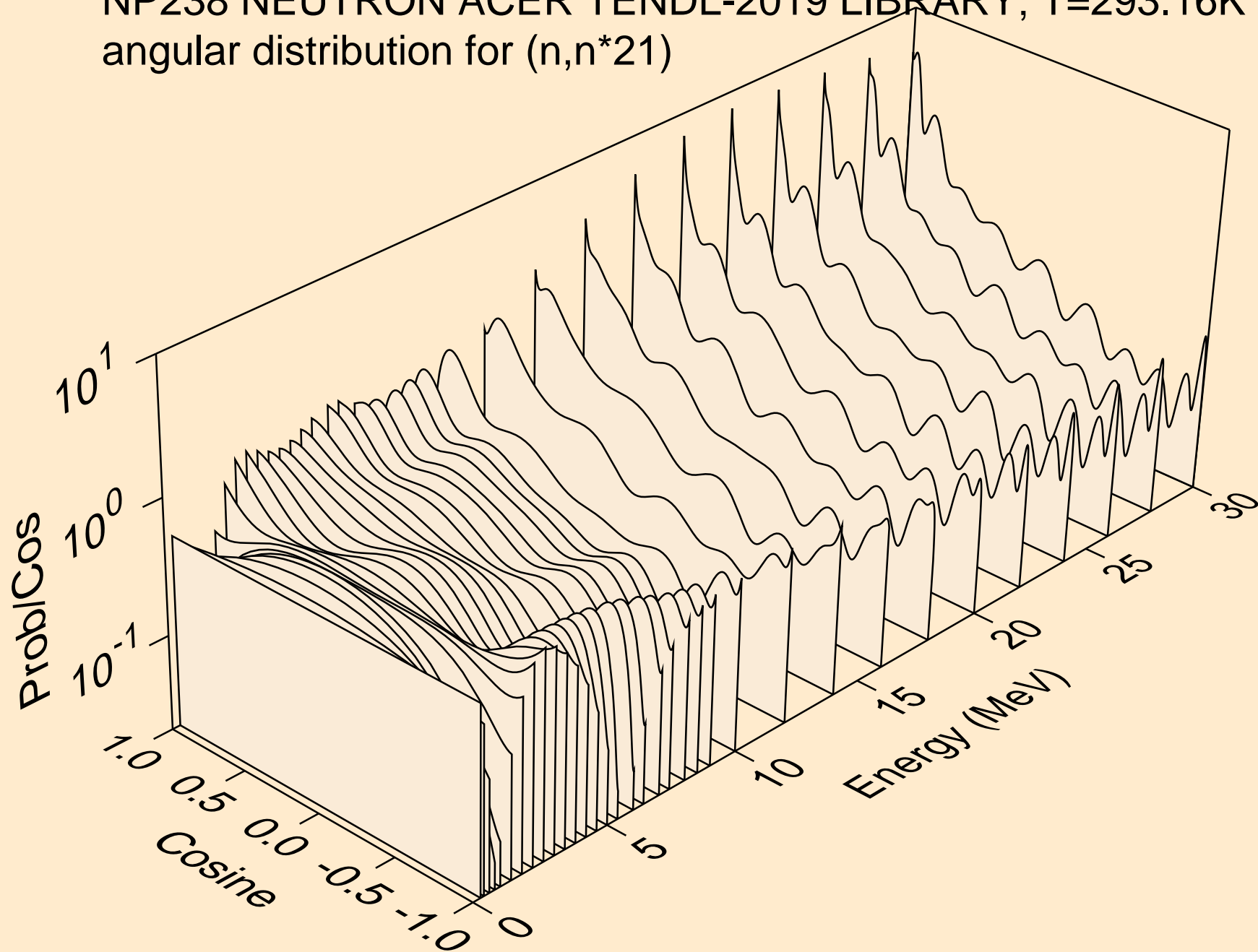


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angular distribution for (n,n\*20)

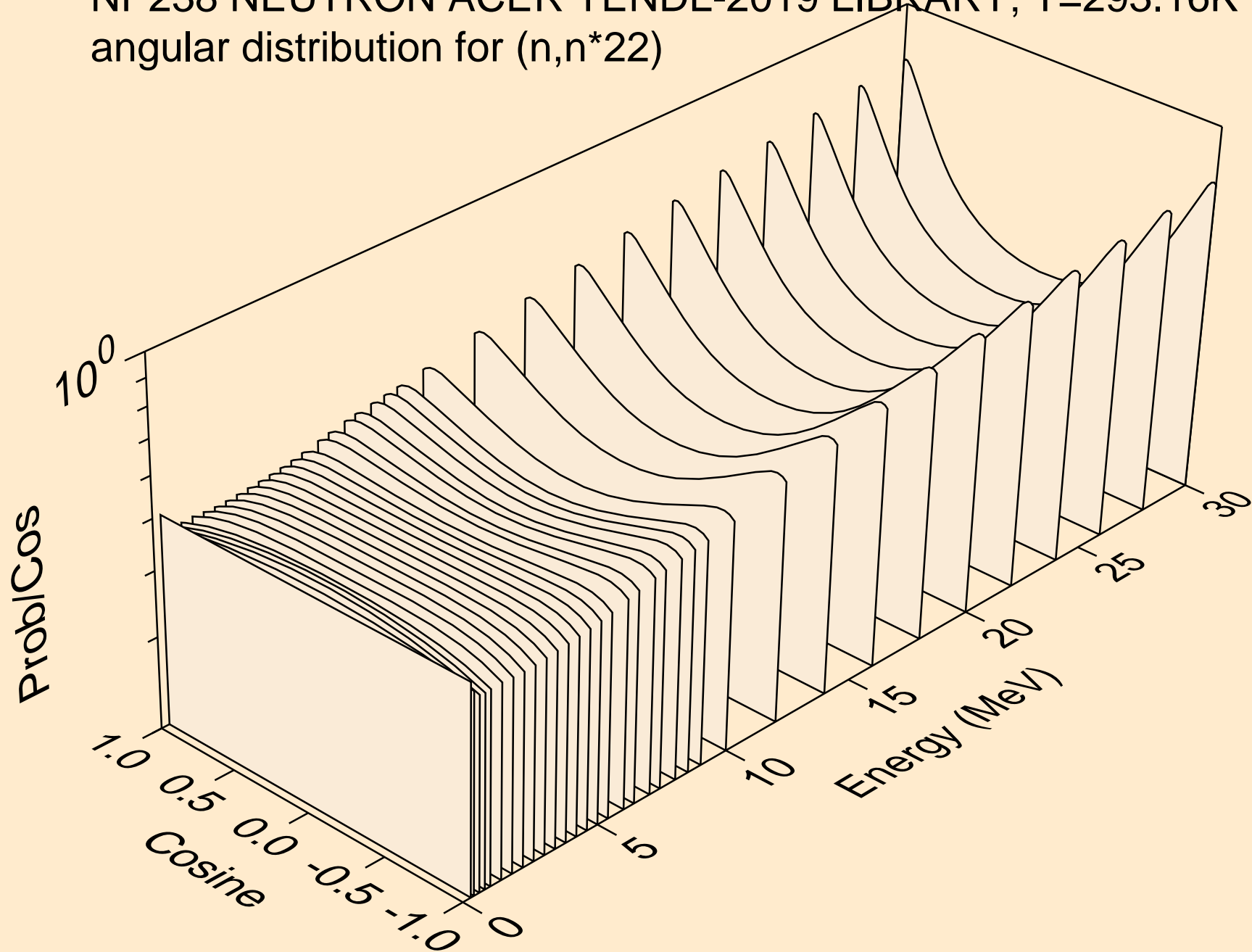




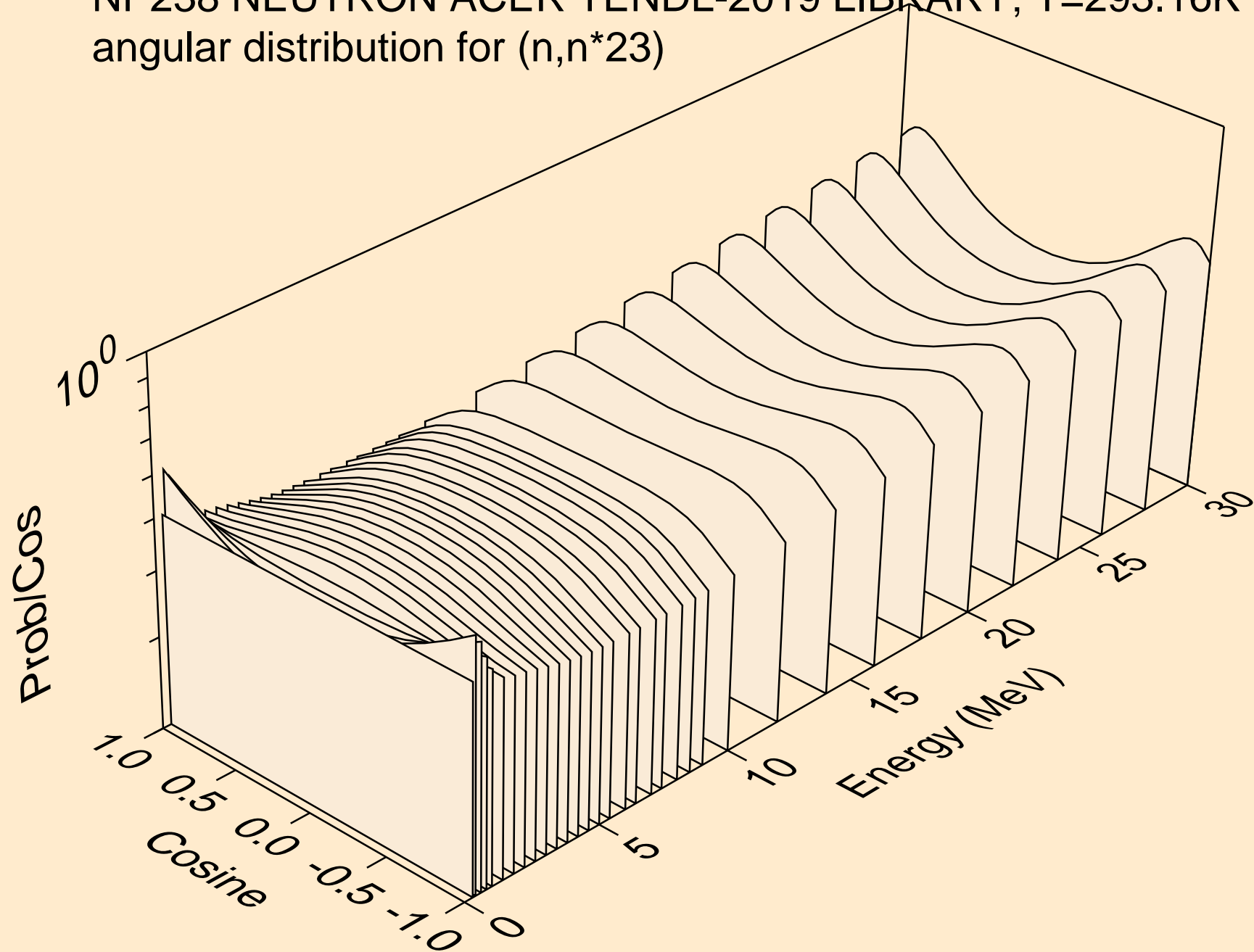
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angular distribution for (n,n\*21)



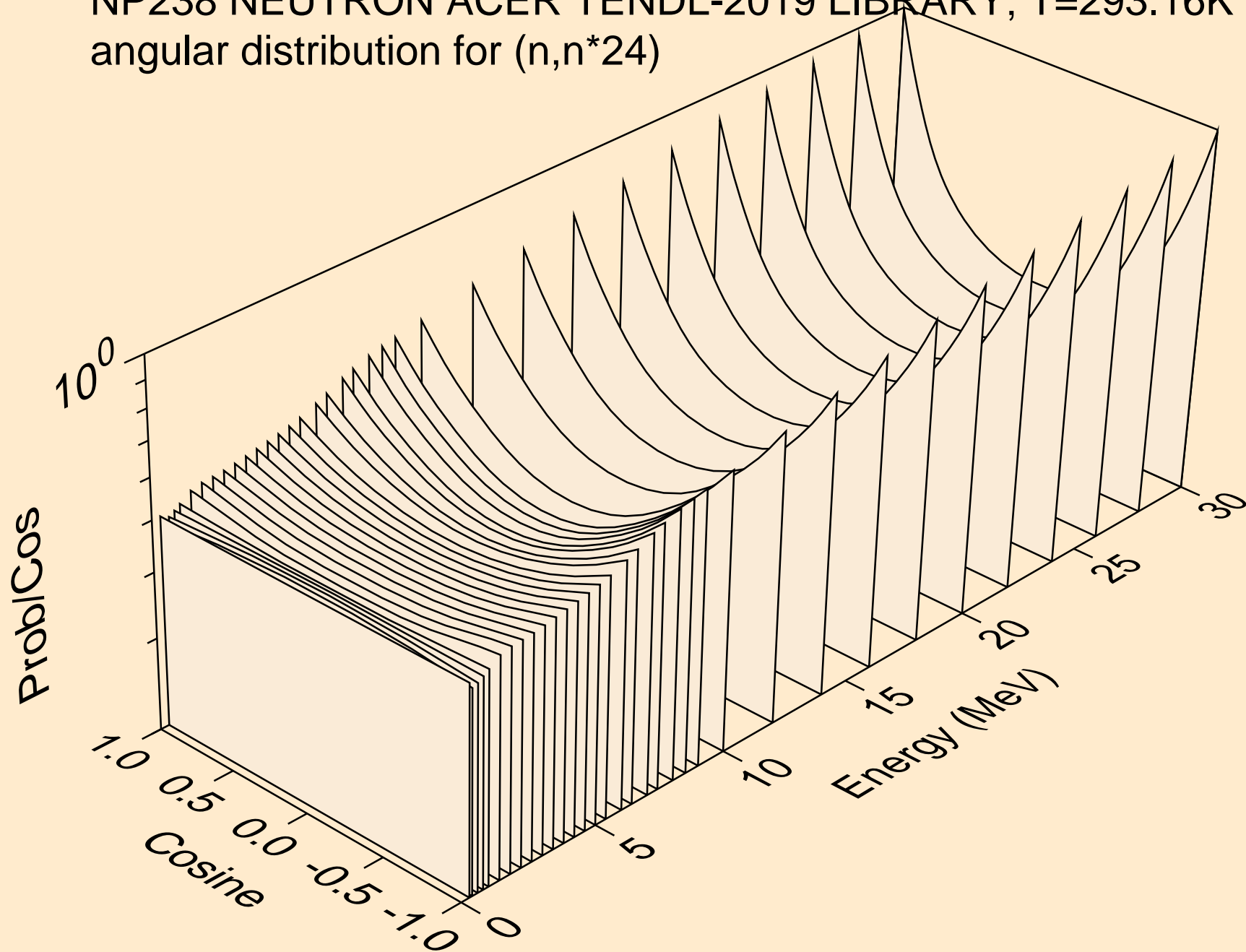
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angular distribution for (n,n\*22)



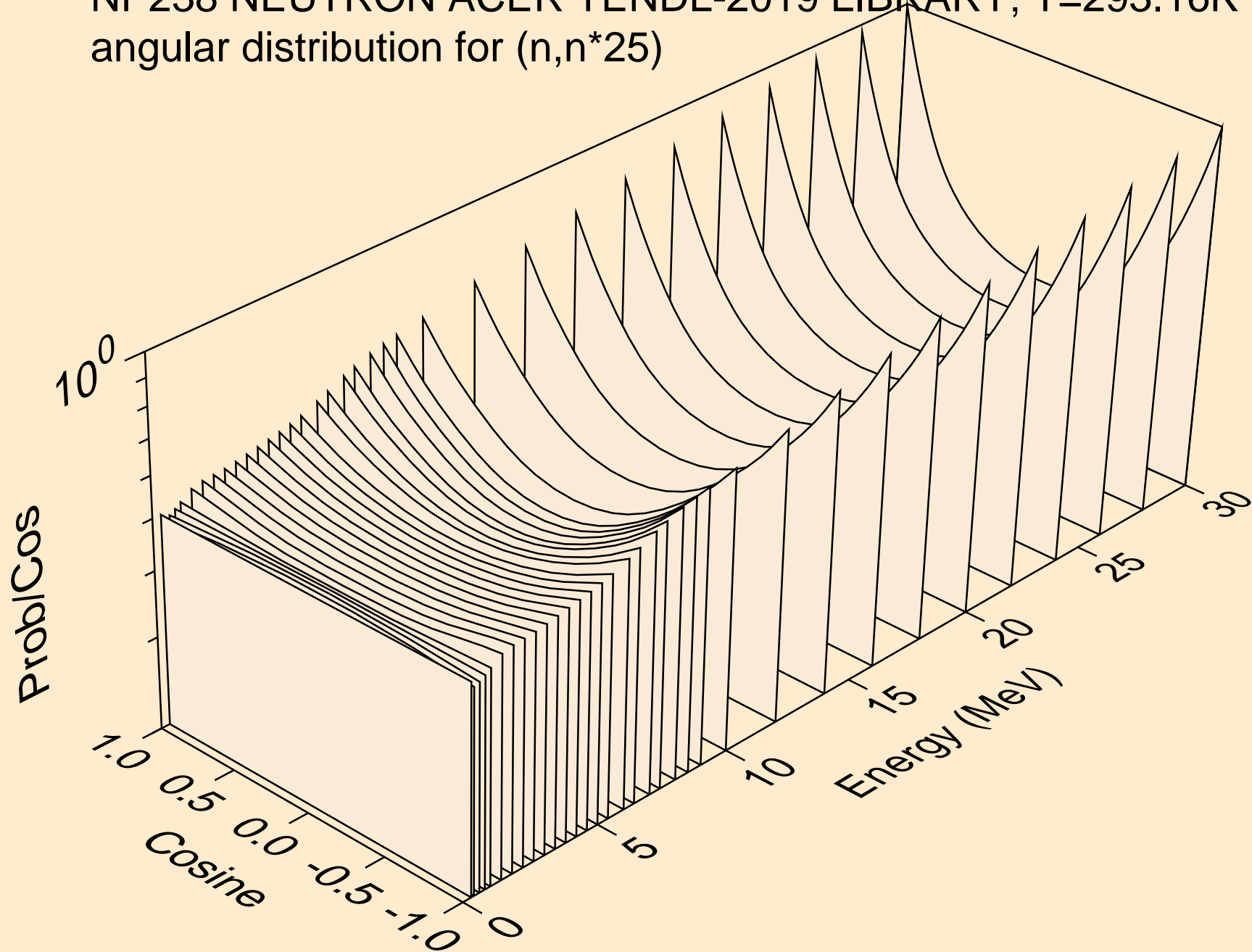
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angular distribution for (n,n\*23)



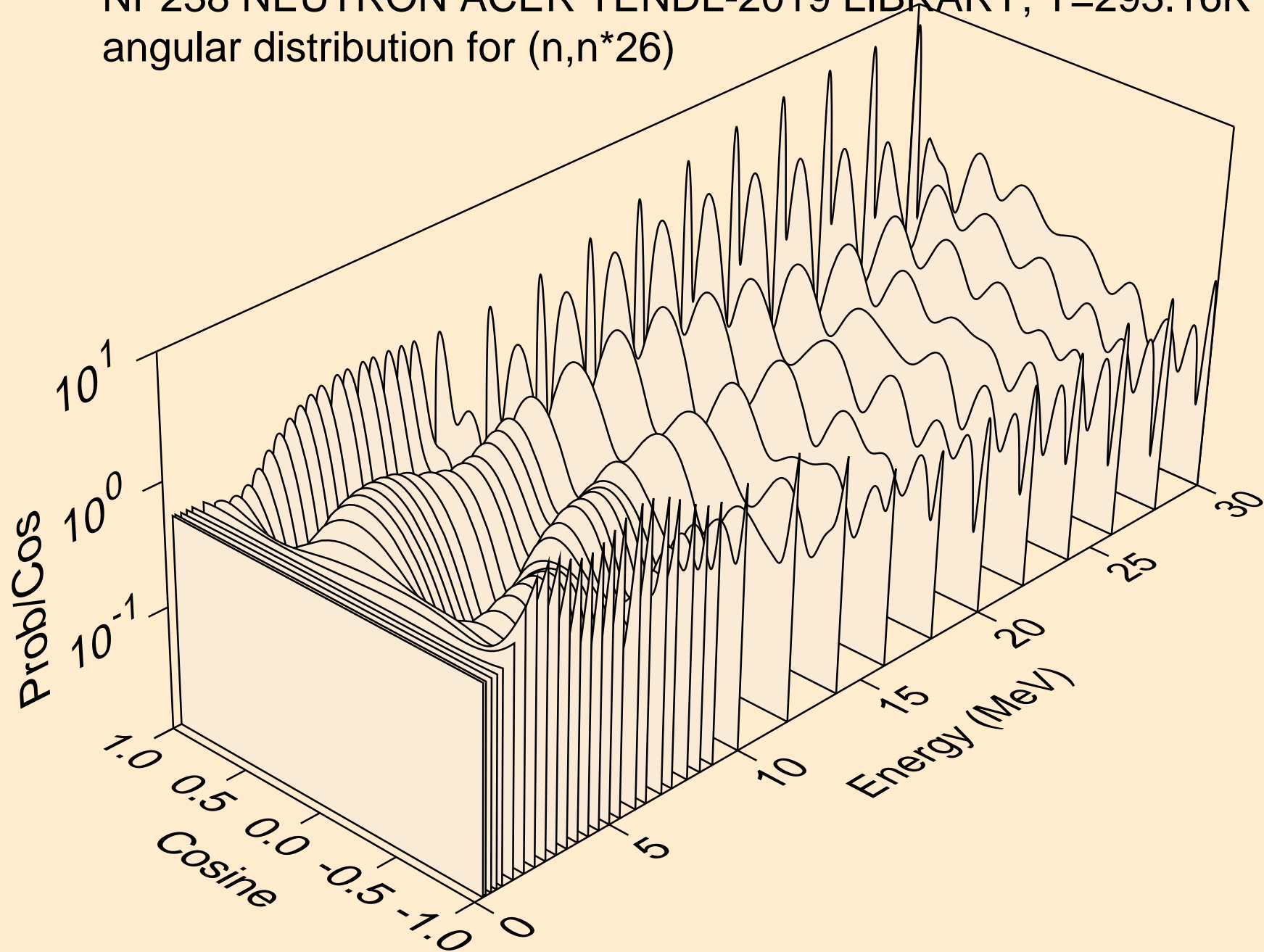
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angular distribution for (n,n\*24)



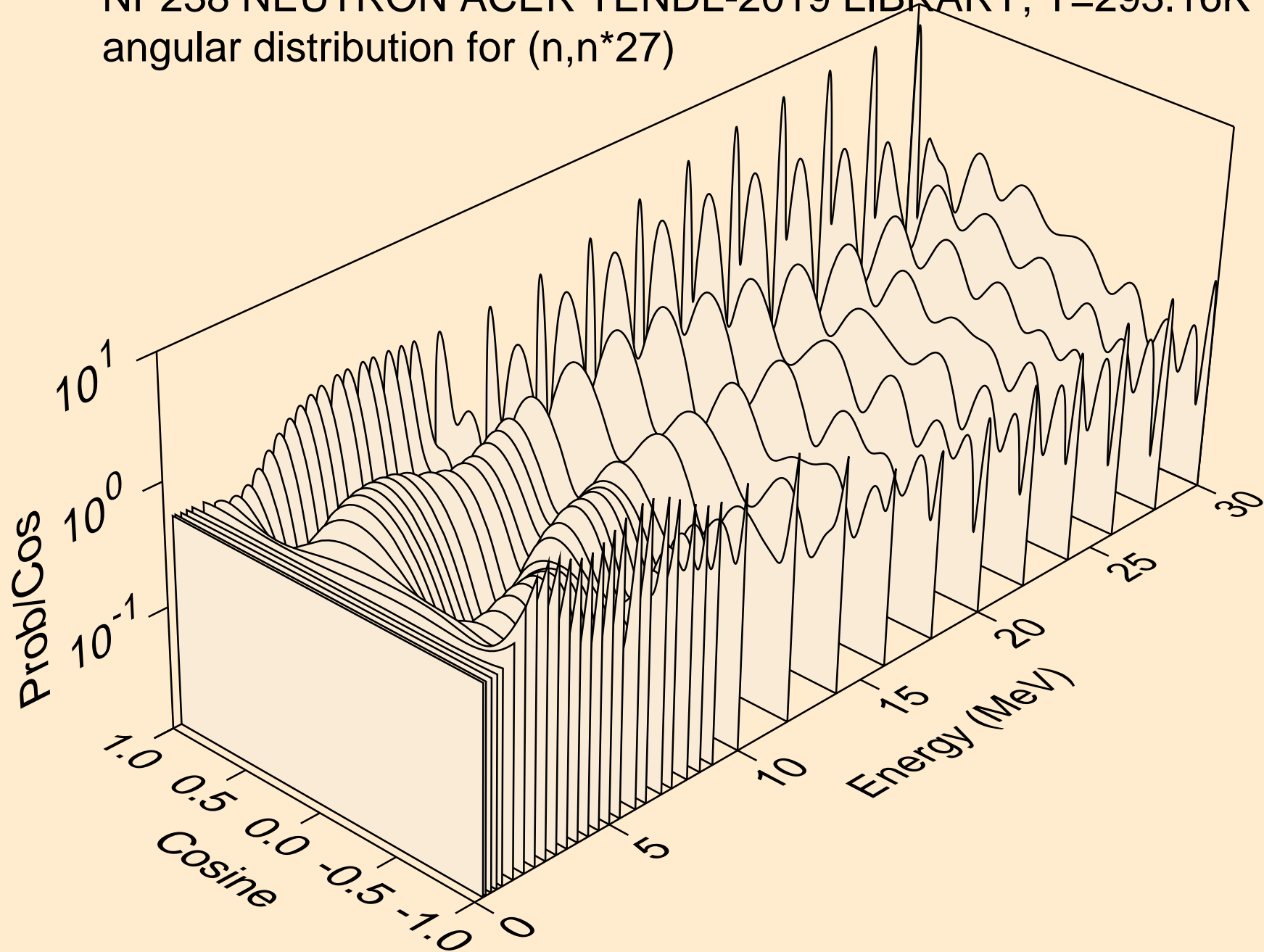
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angular distribution for (n,n\*25)



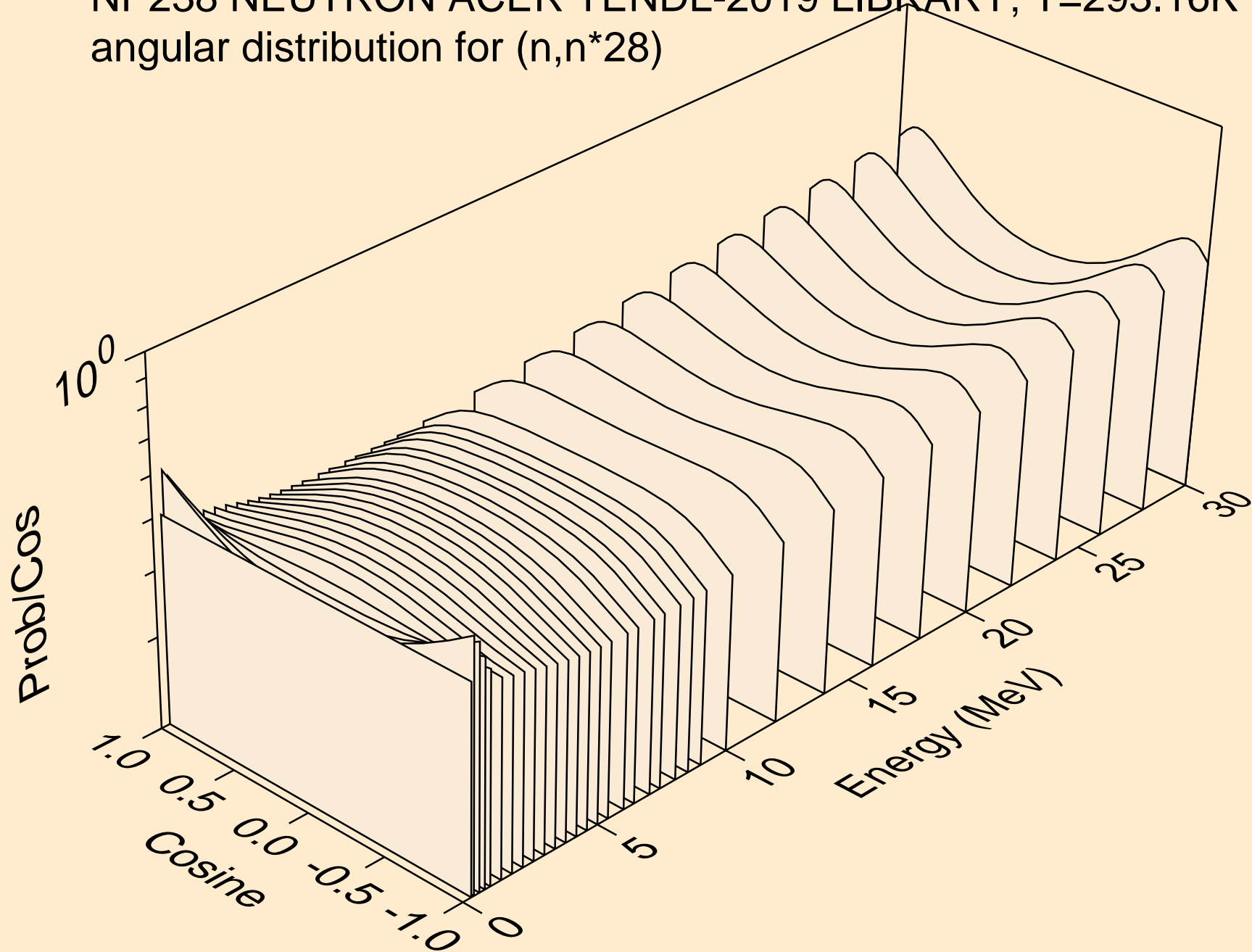
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)

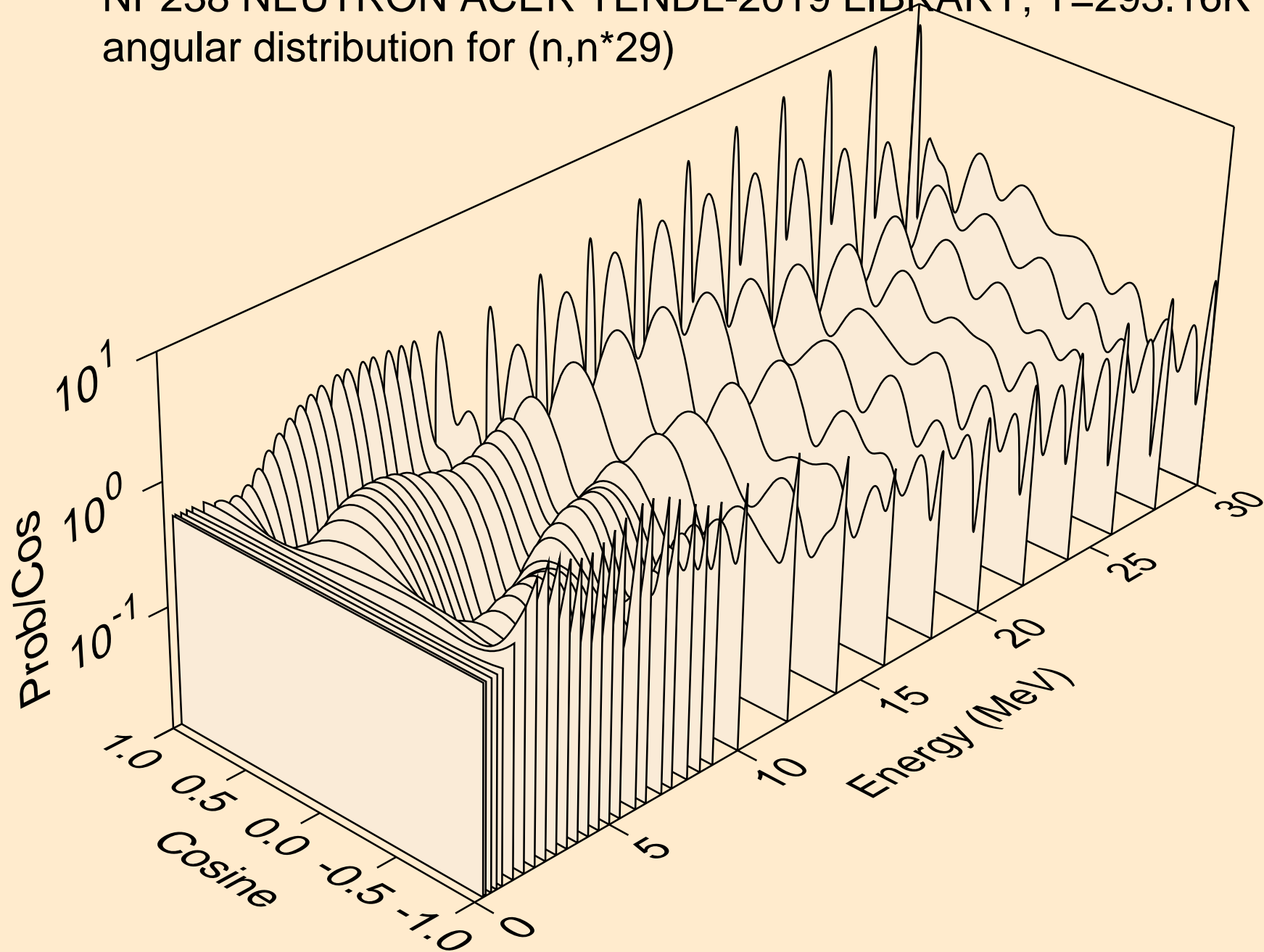


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angular distribution for (n,n\*28)

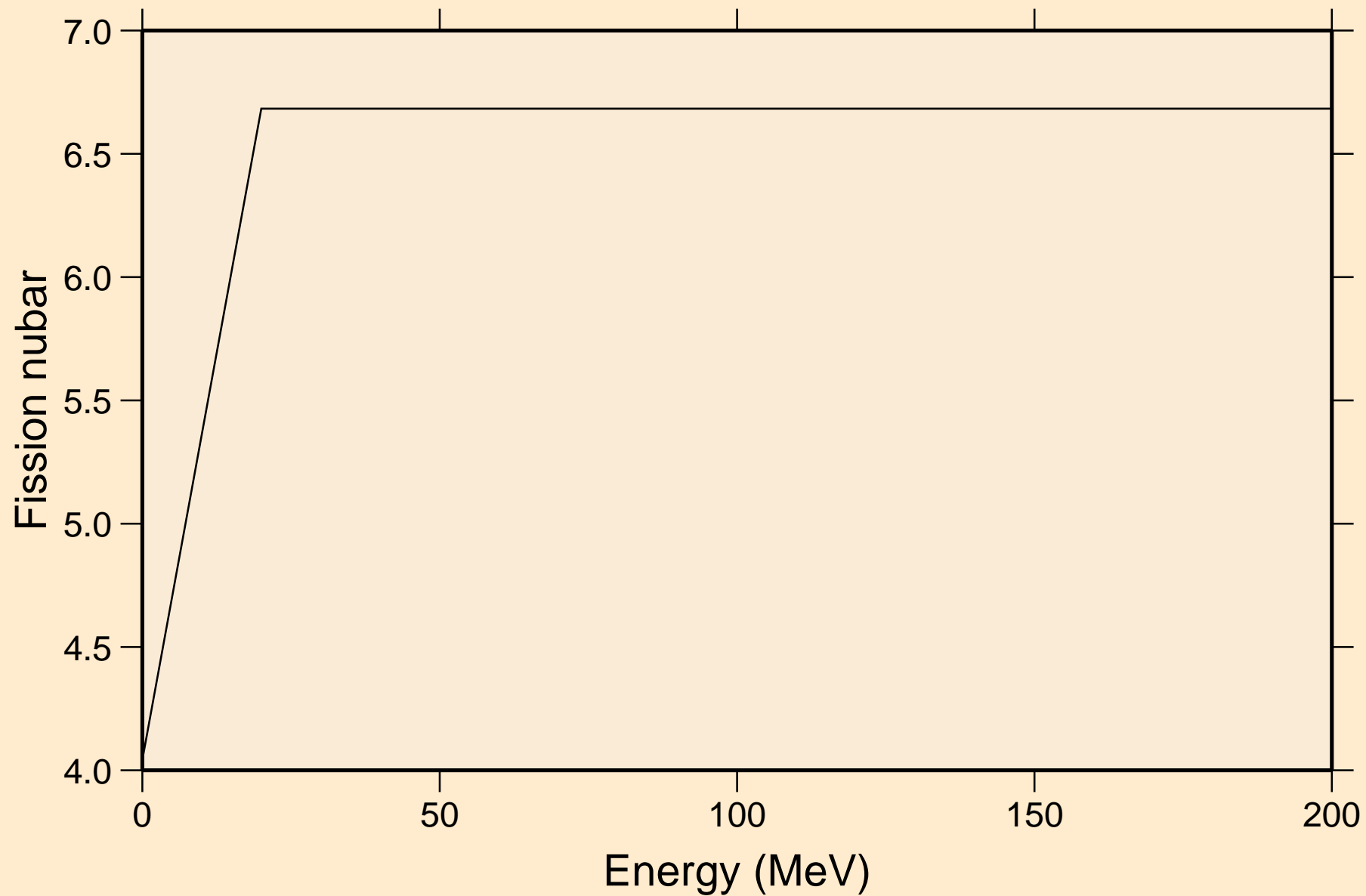




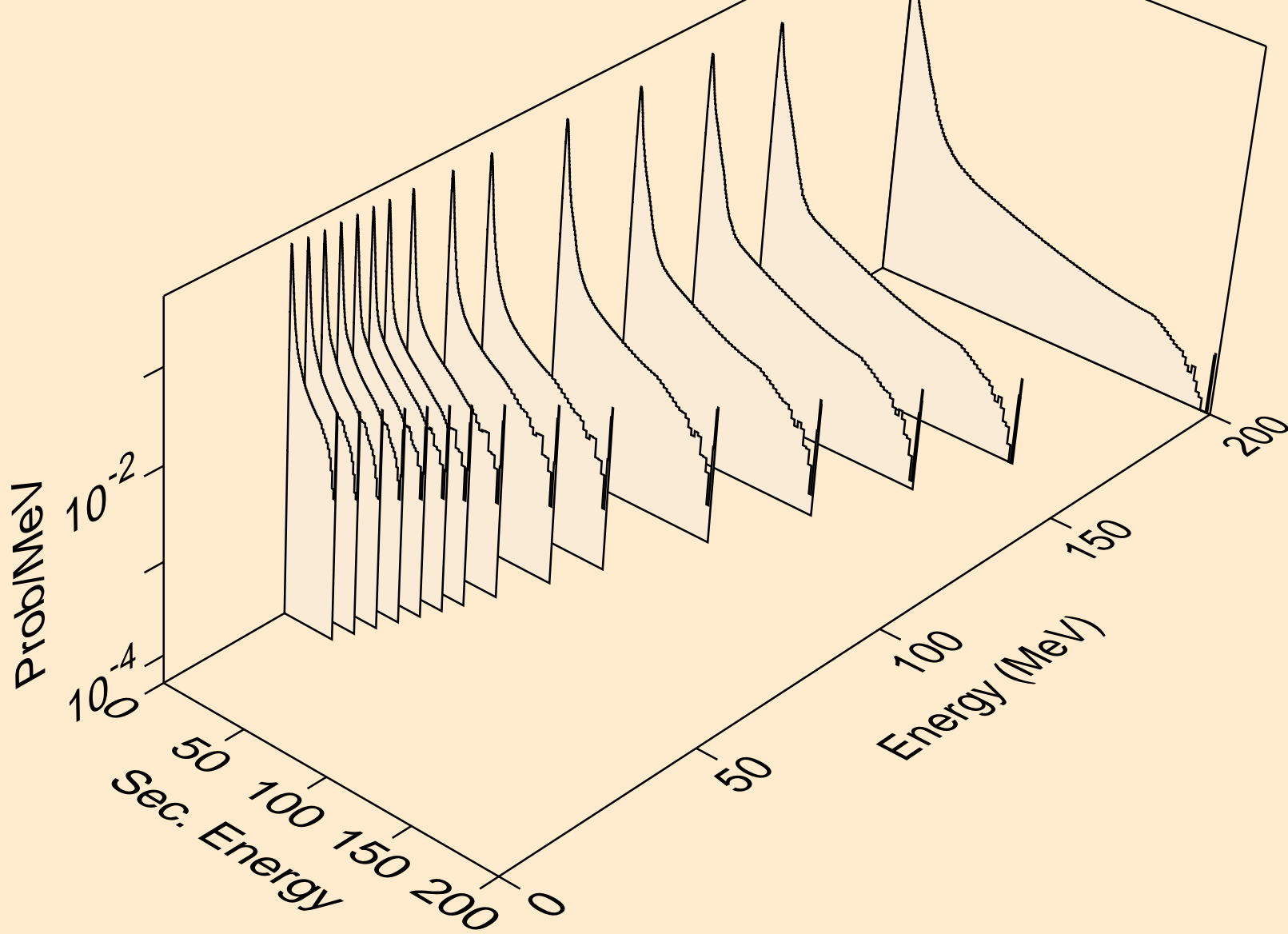
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angular distribution for (n,n\*29)



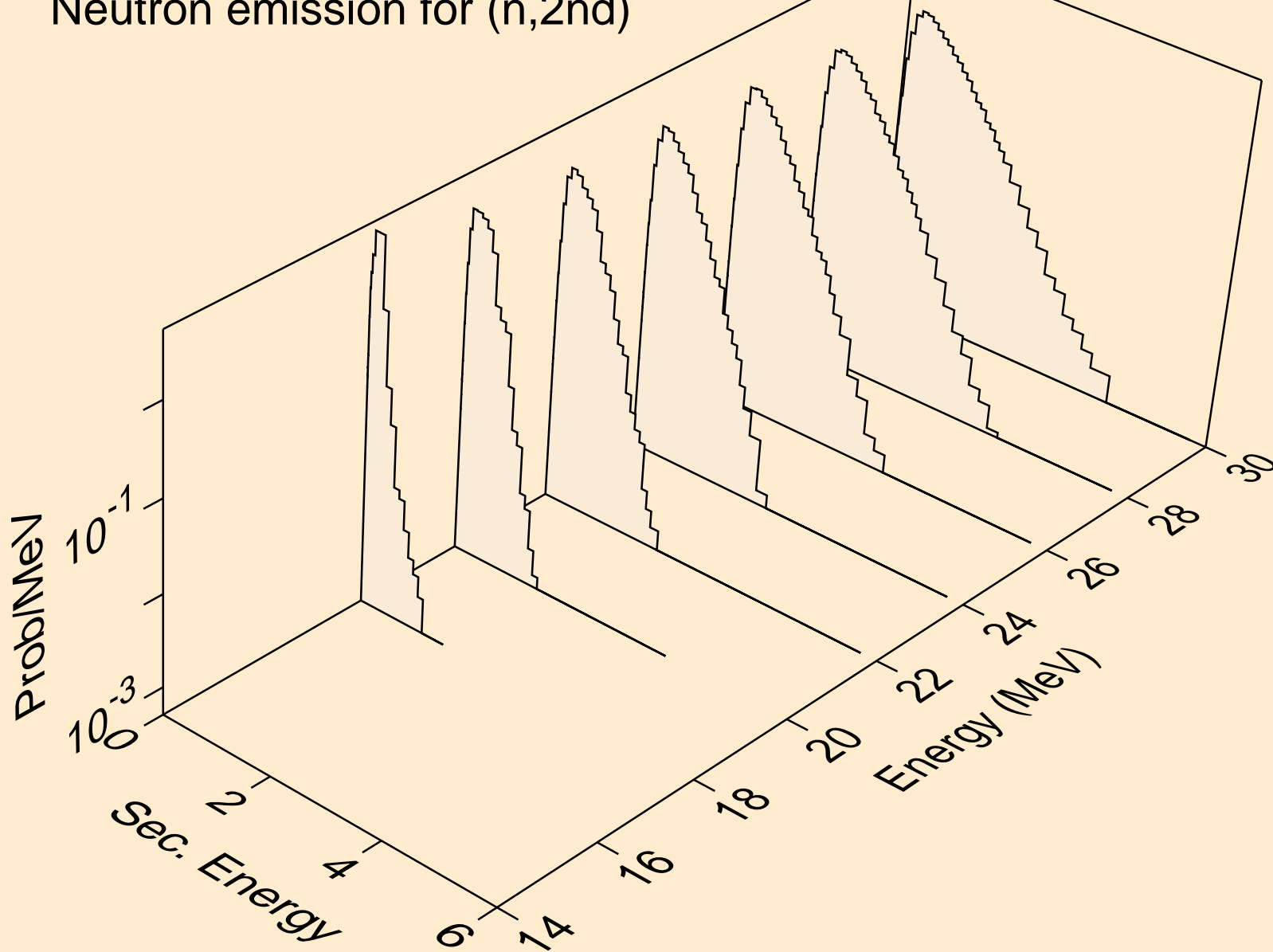
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Total fission nubar



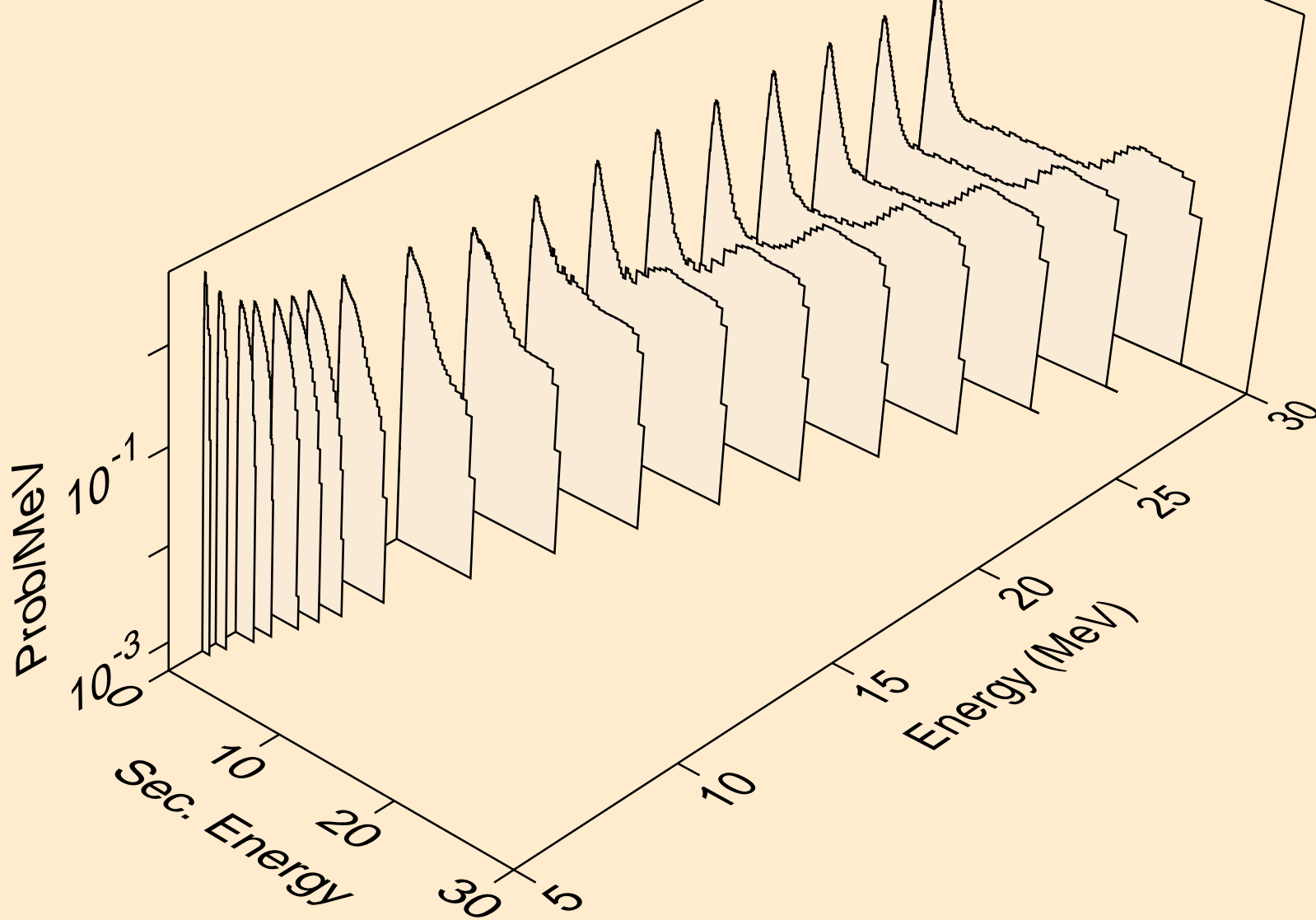
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



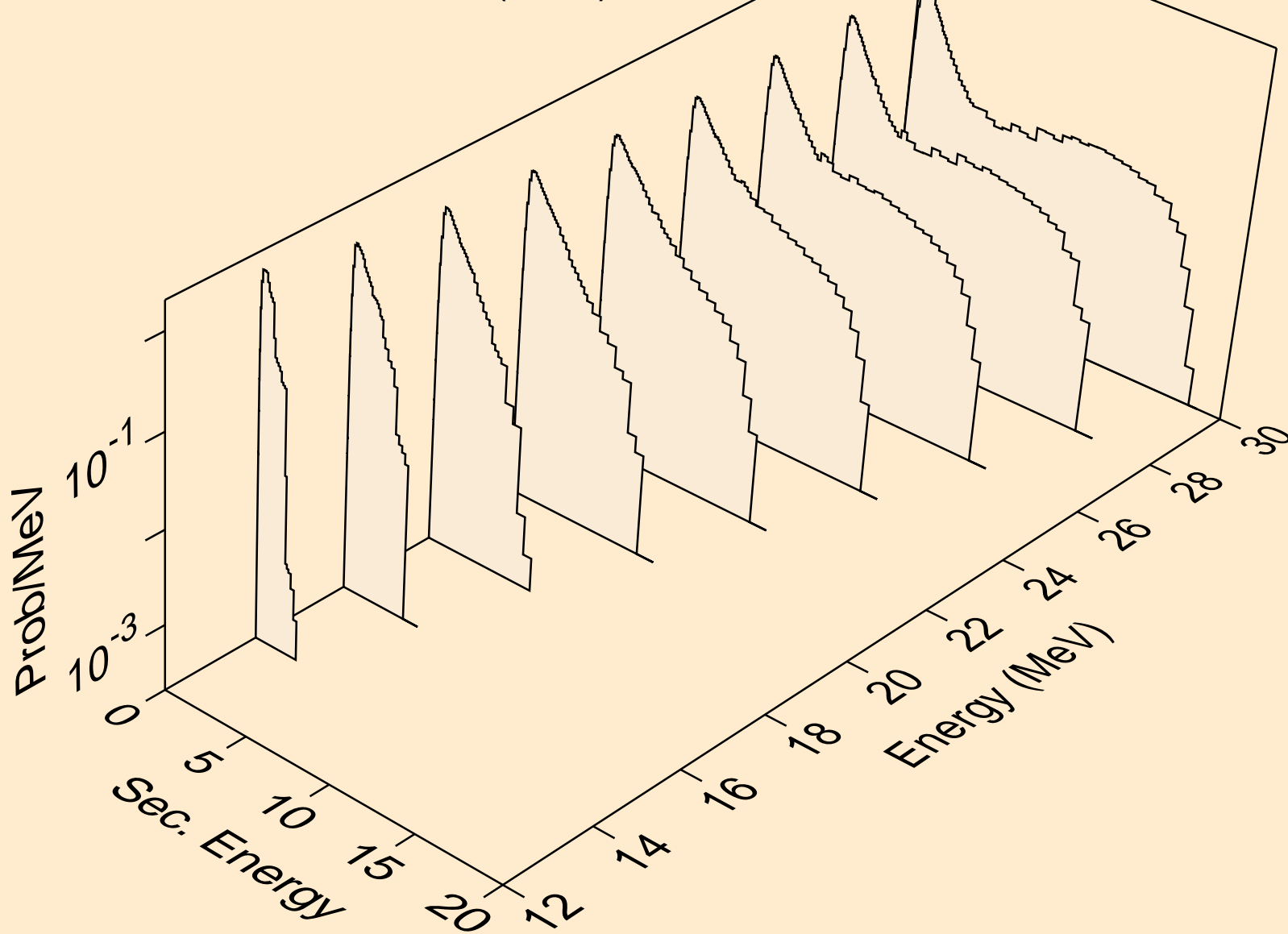
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



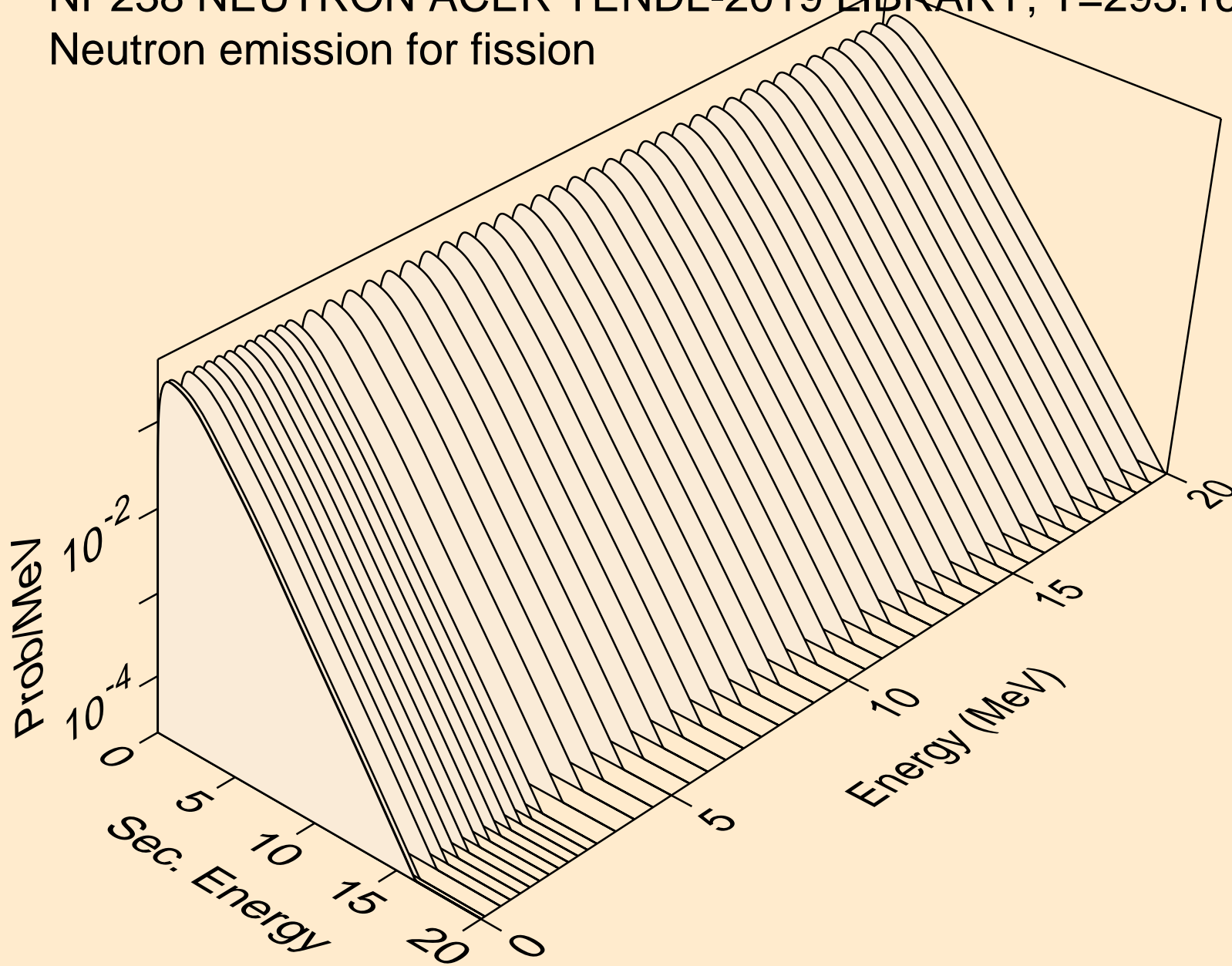
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



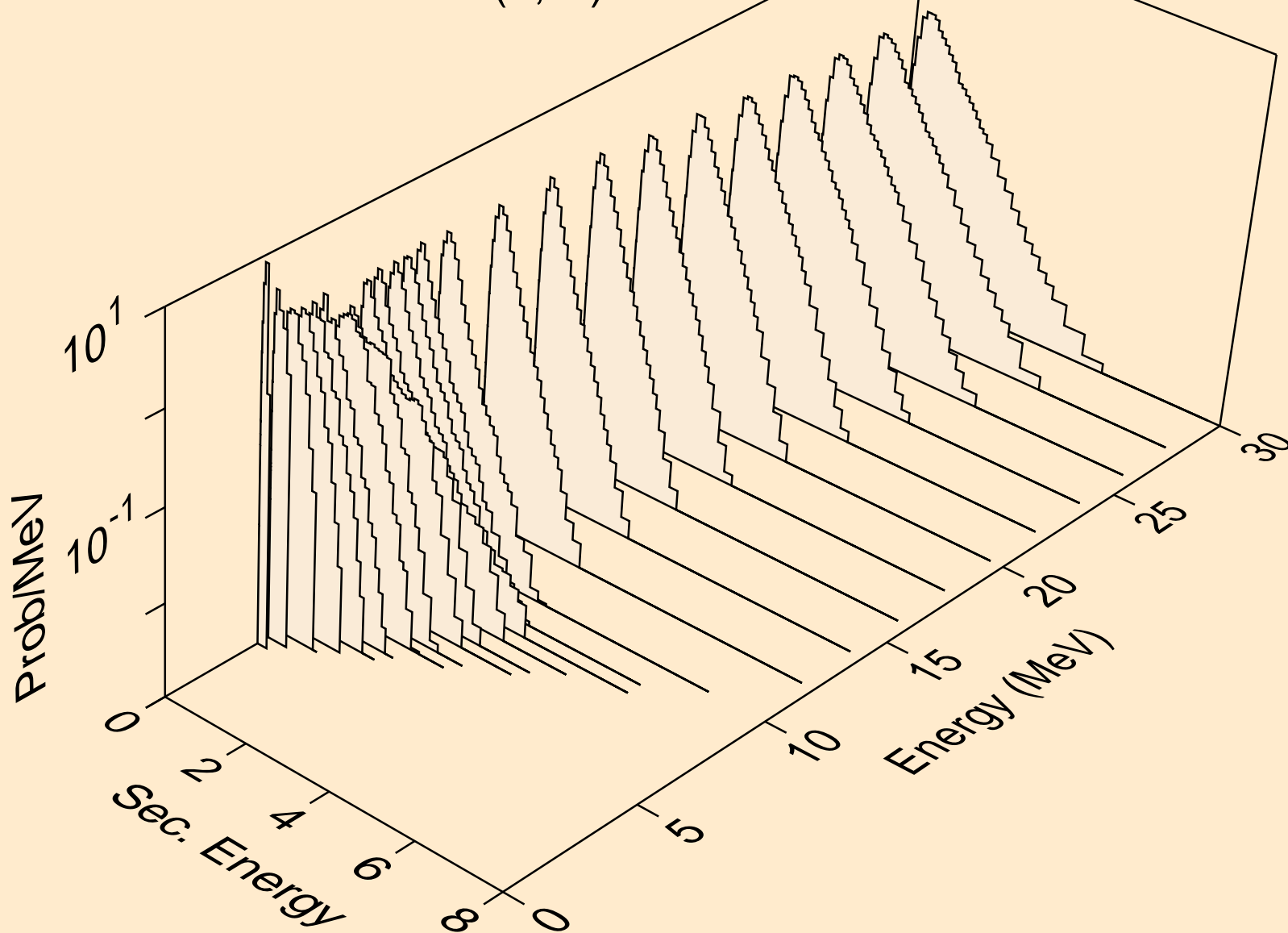
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for fission

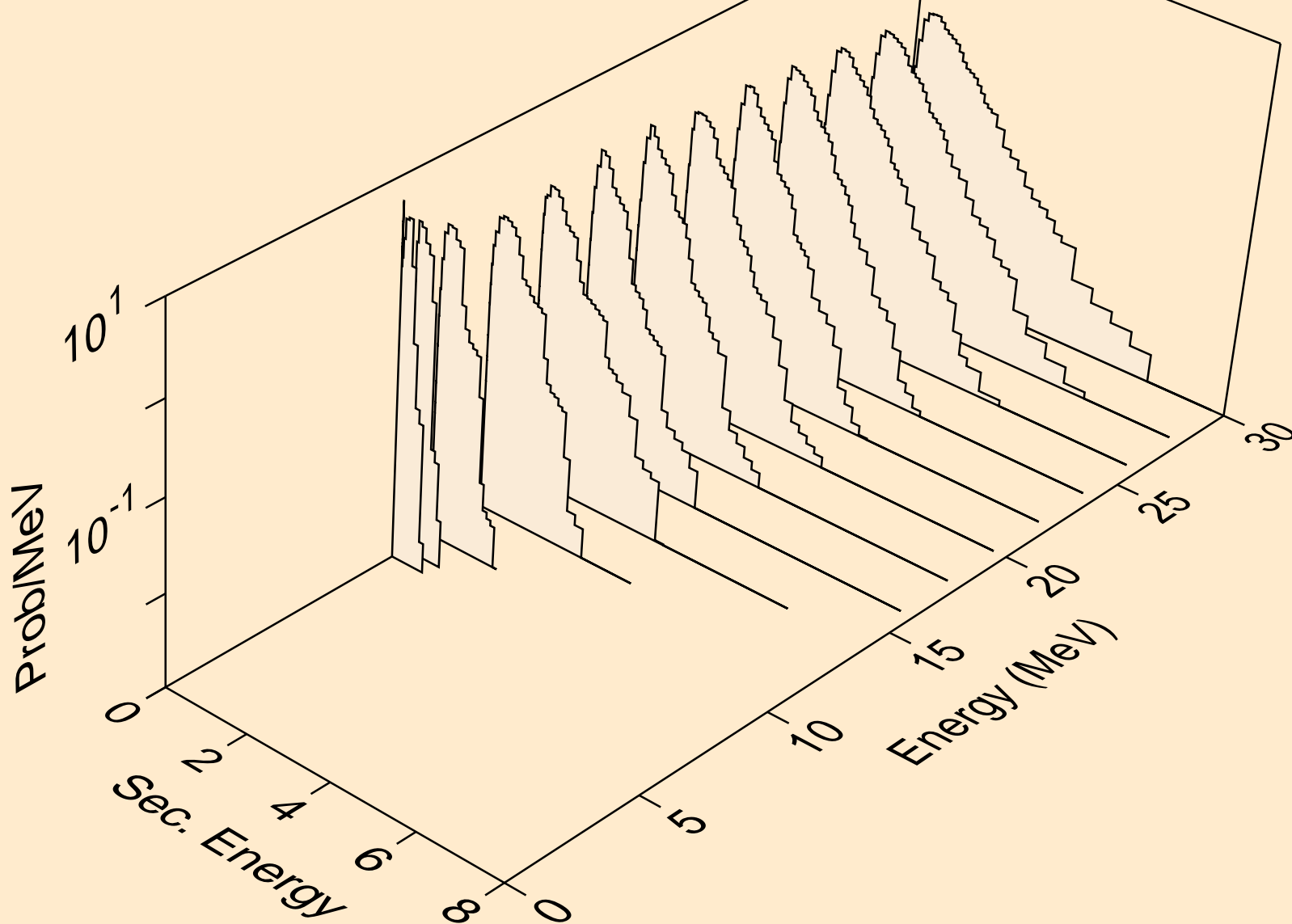


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a

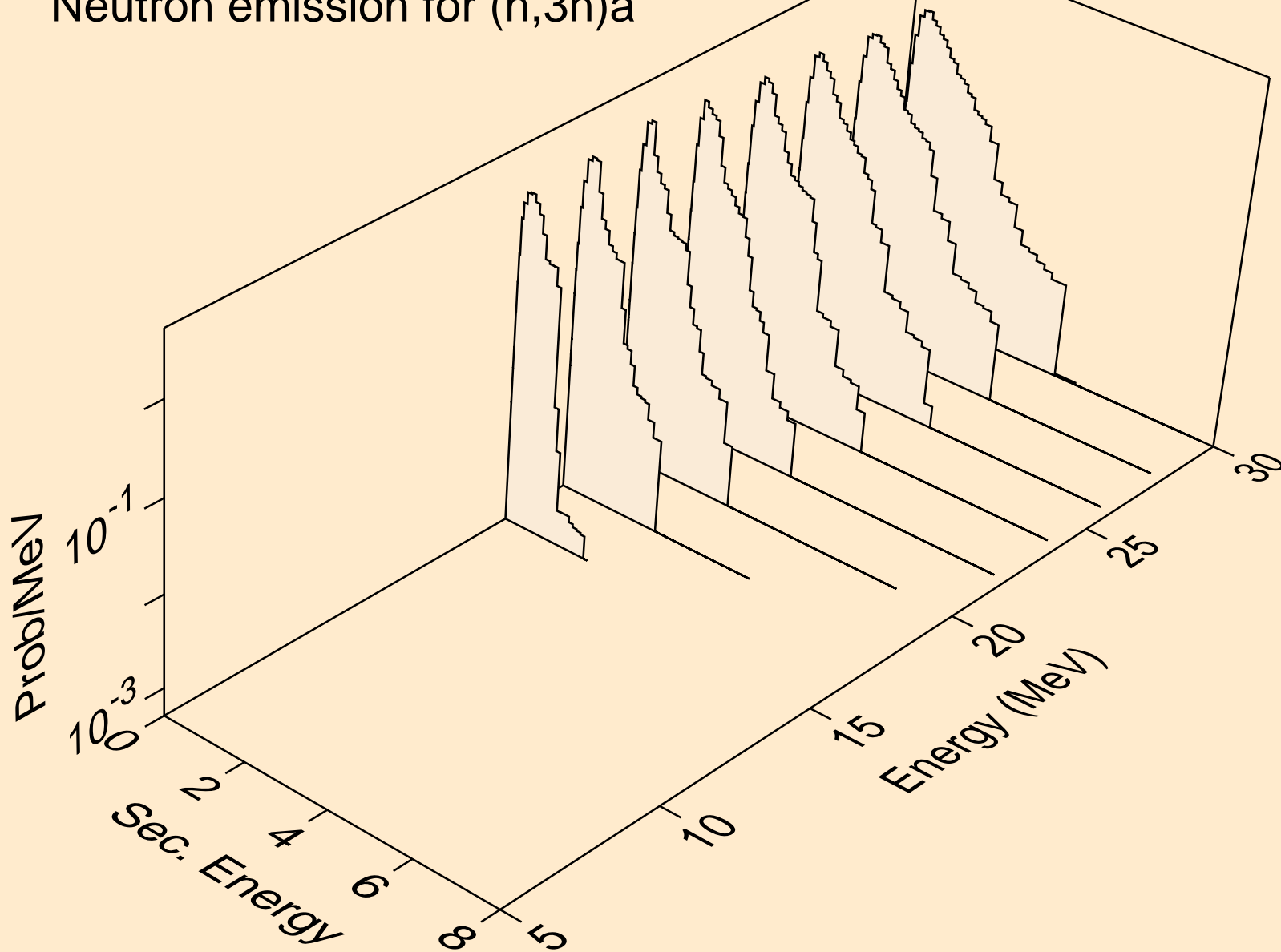




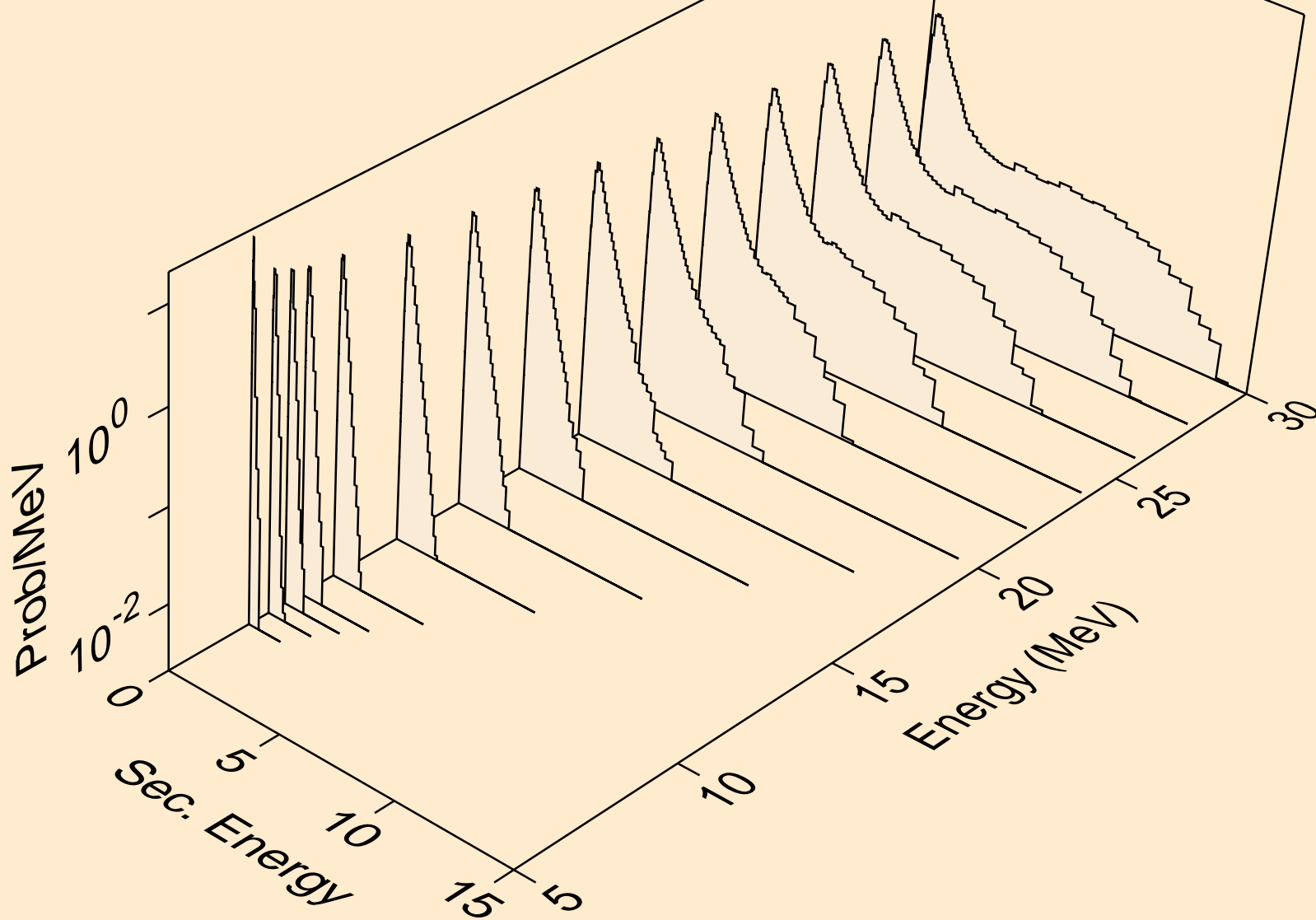
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Neutron emission for (n,2n)a



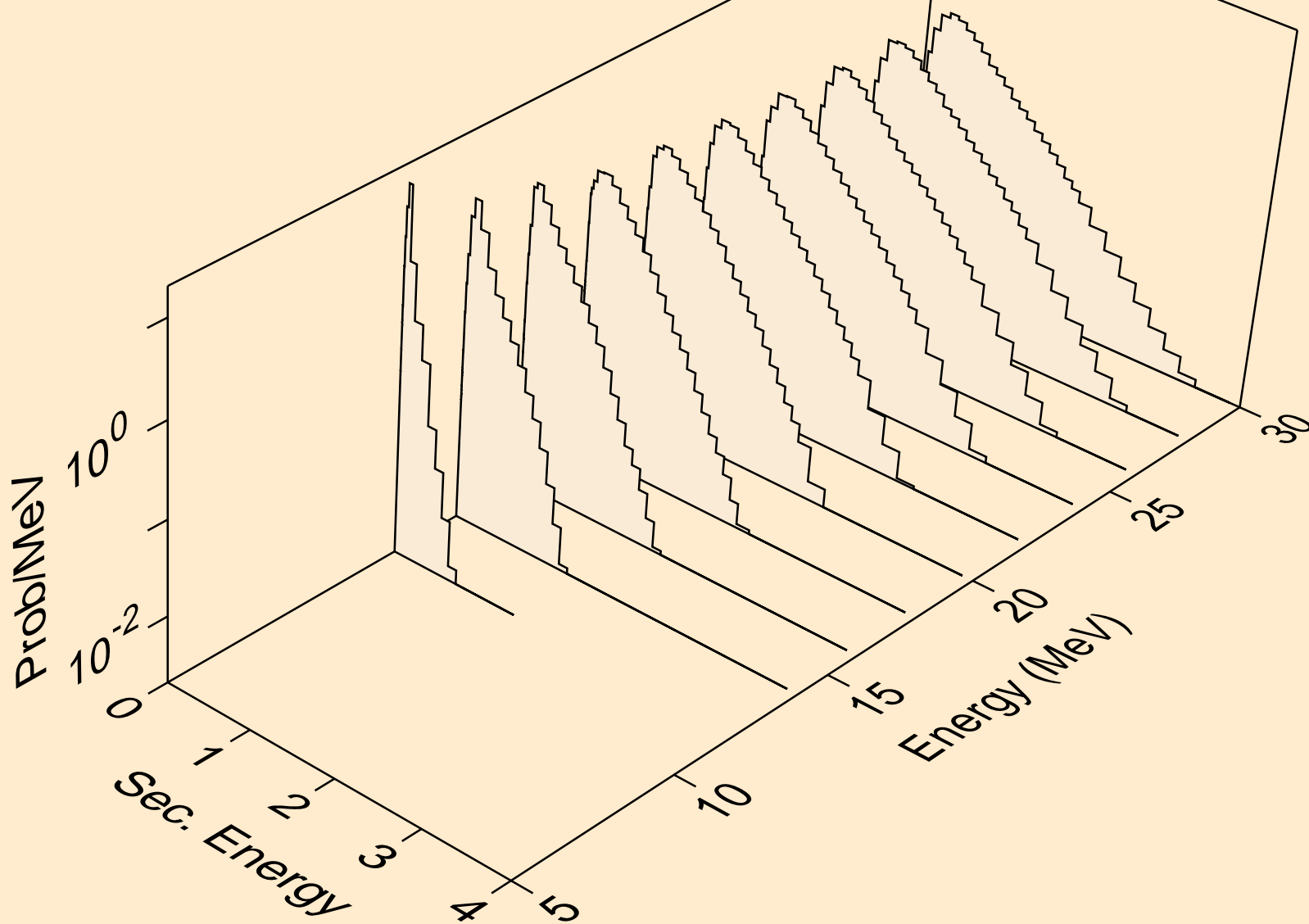
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



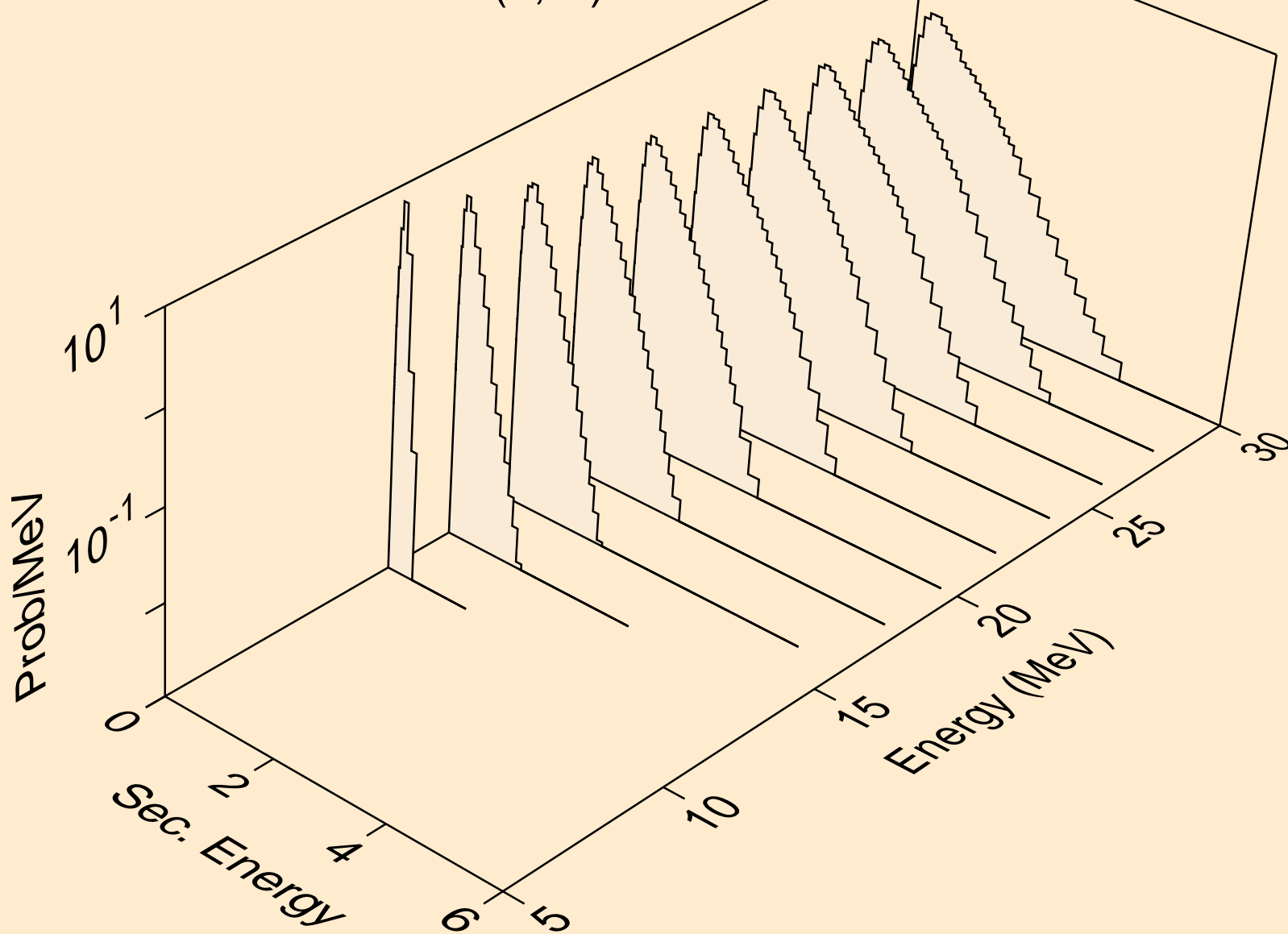
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Neutron emission for (n,n\*)p



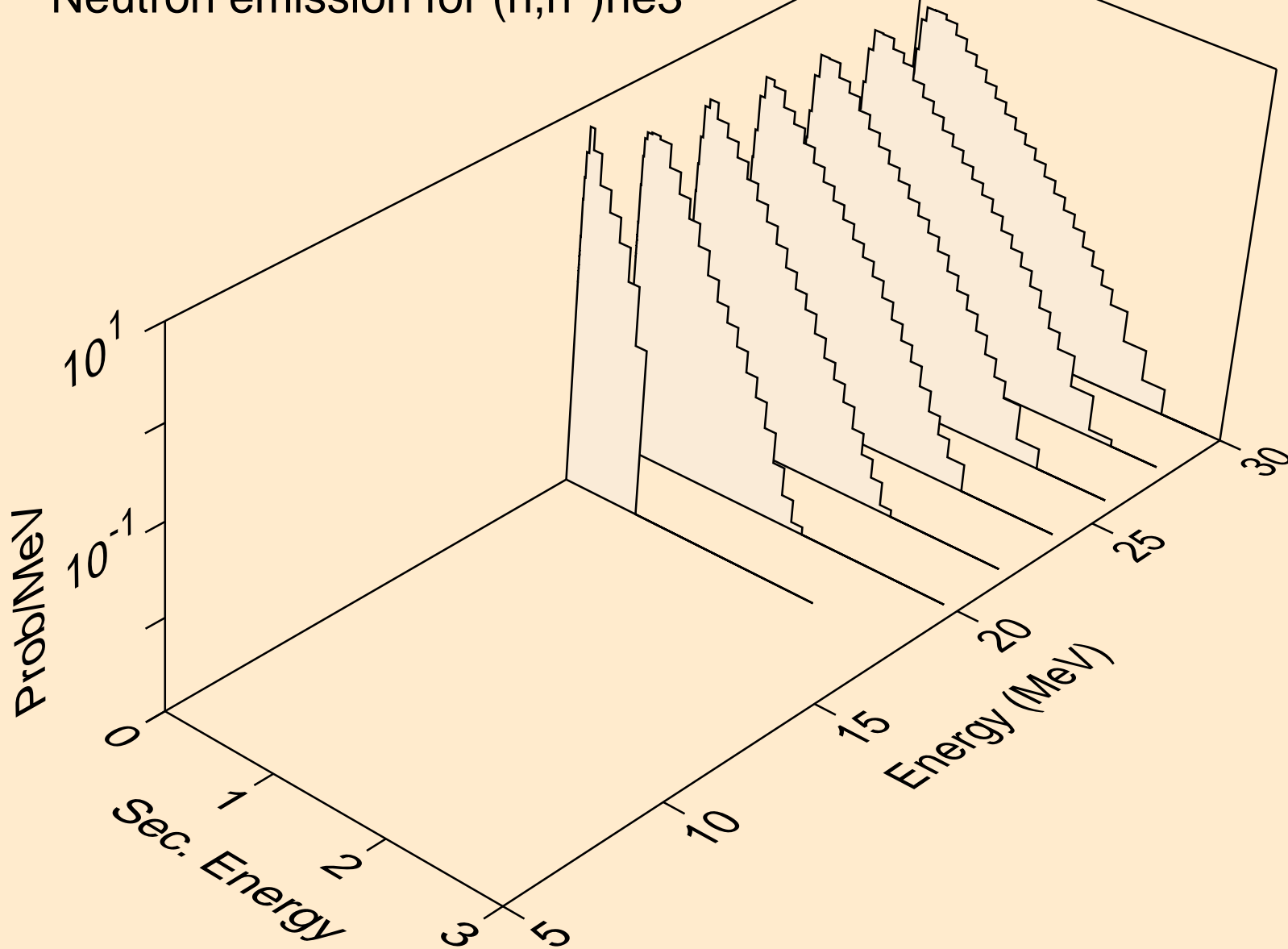
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



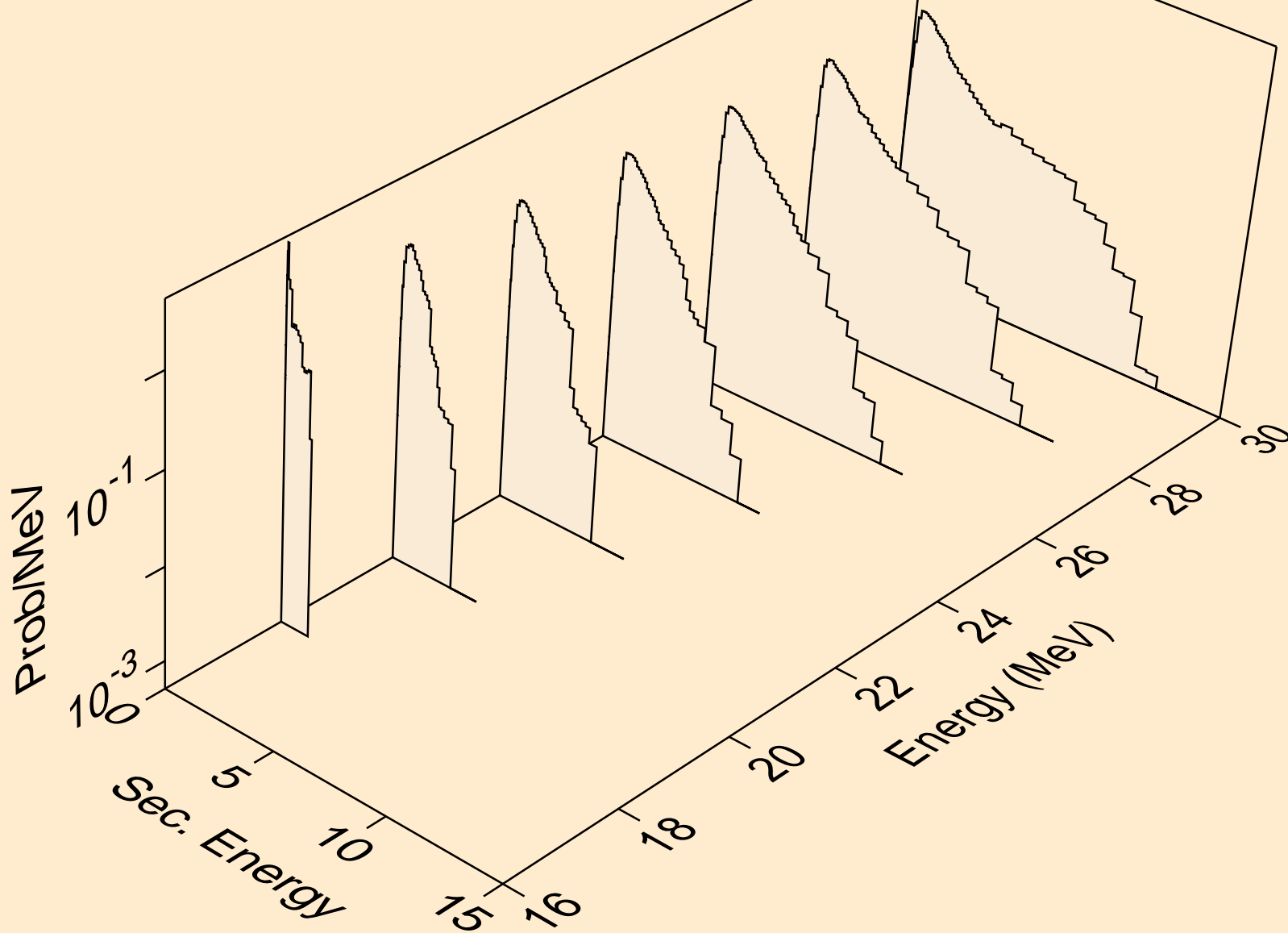
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



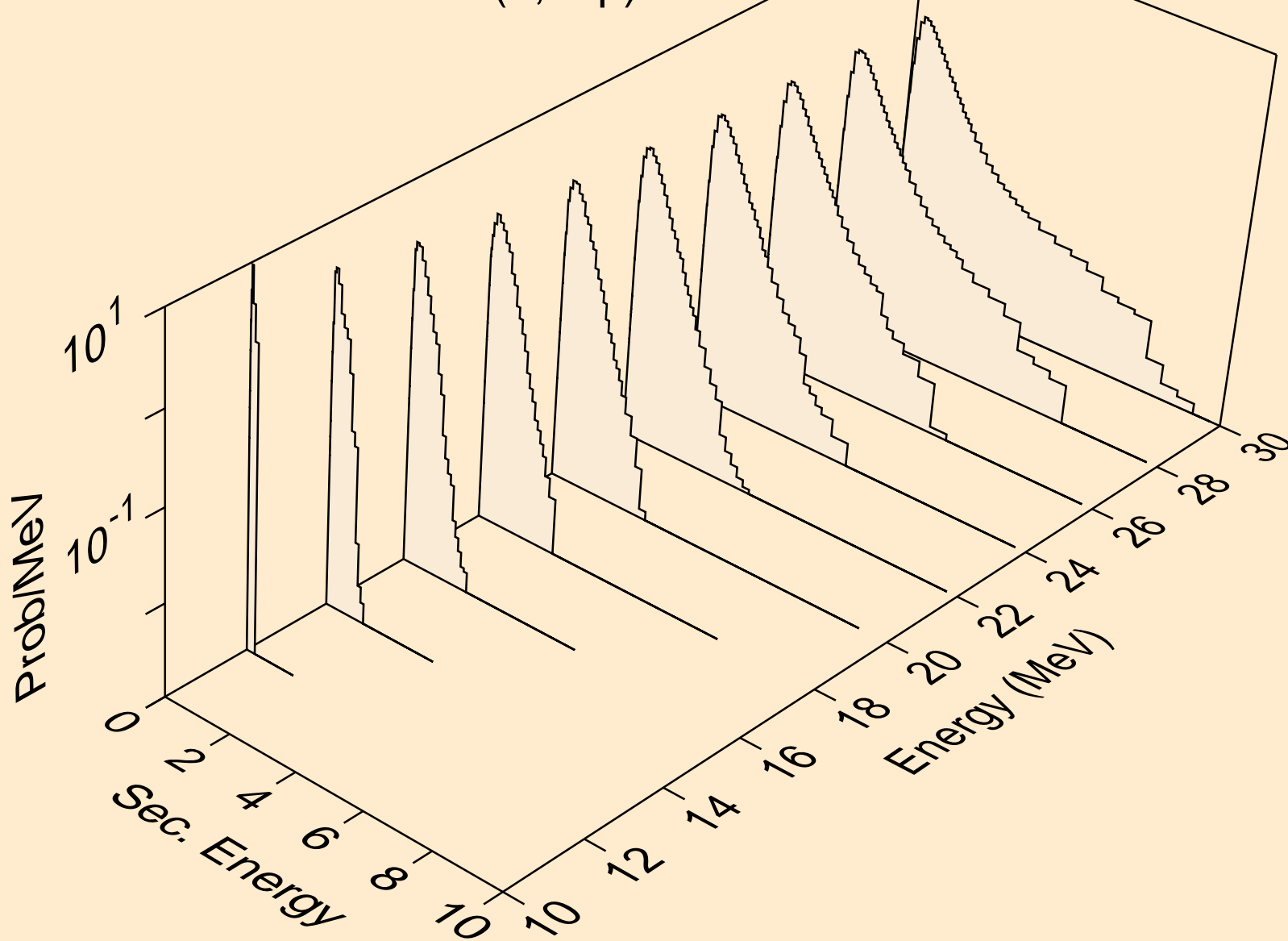
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)

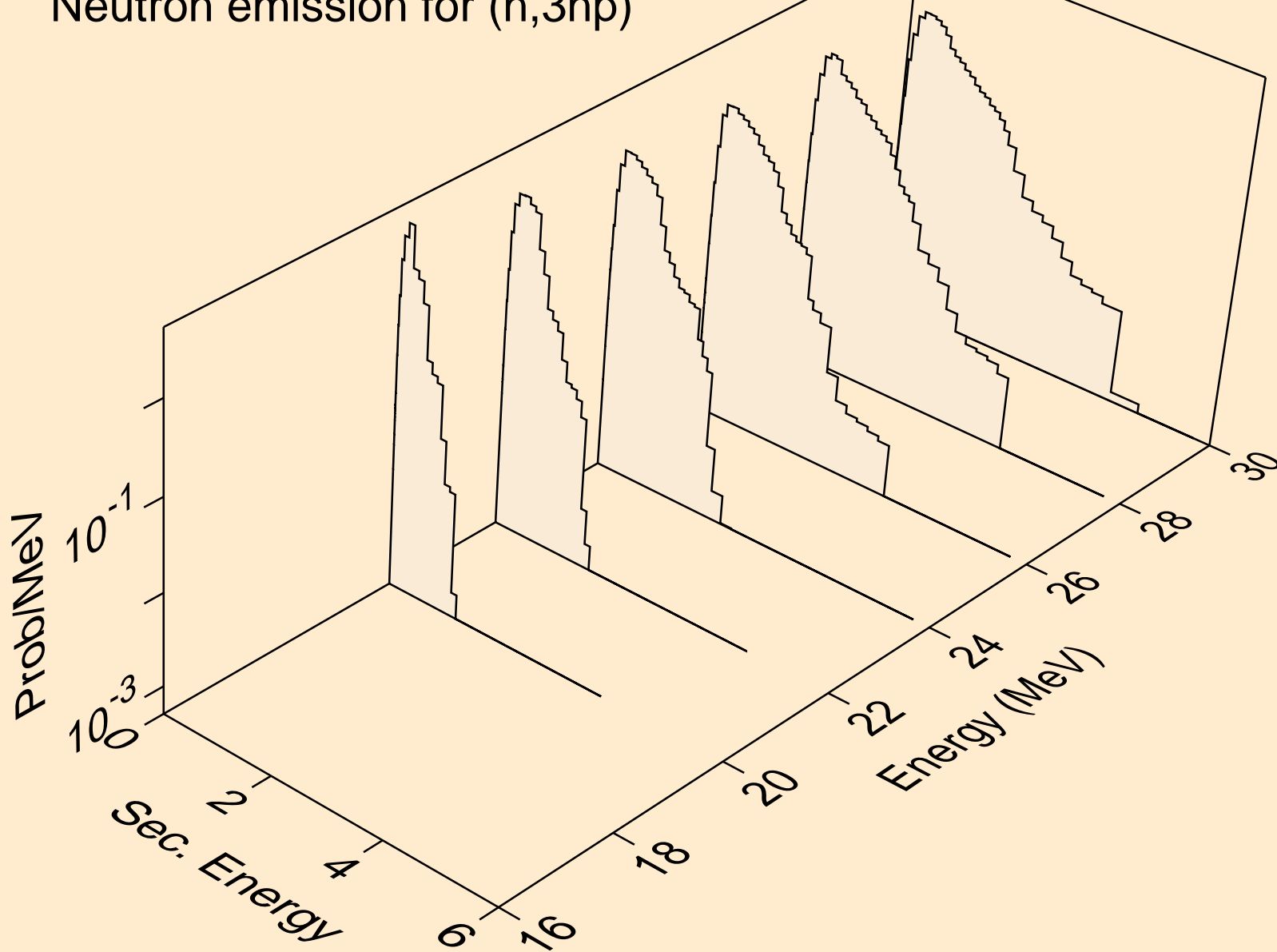


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

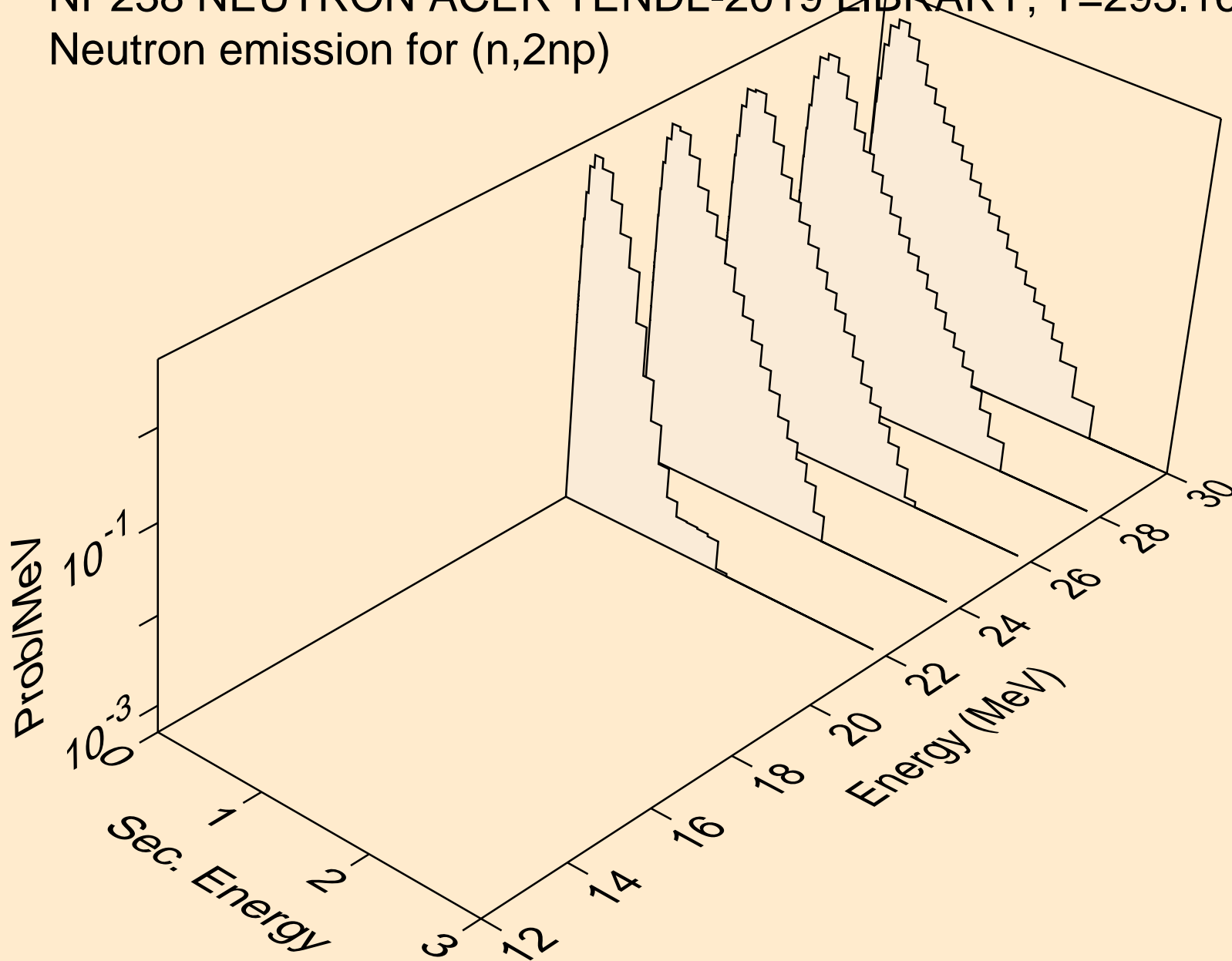




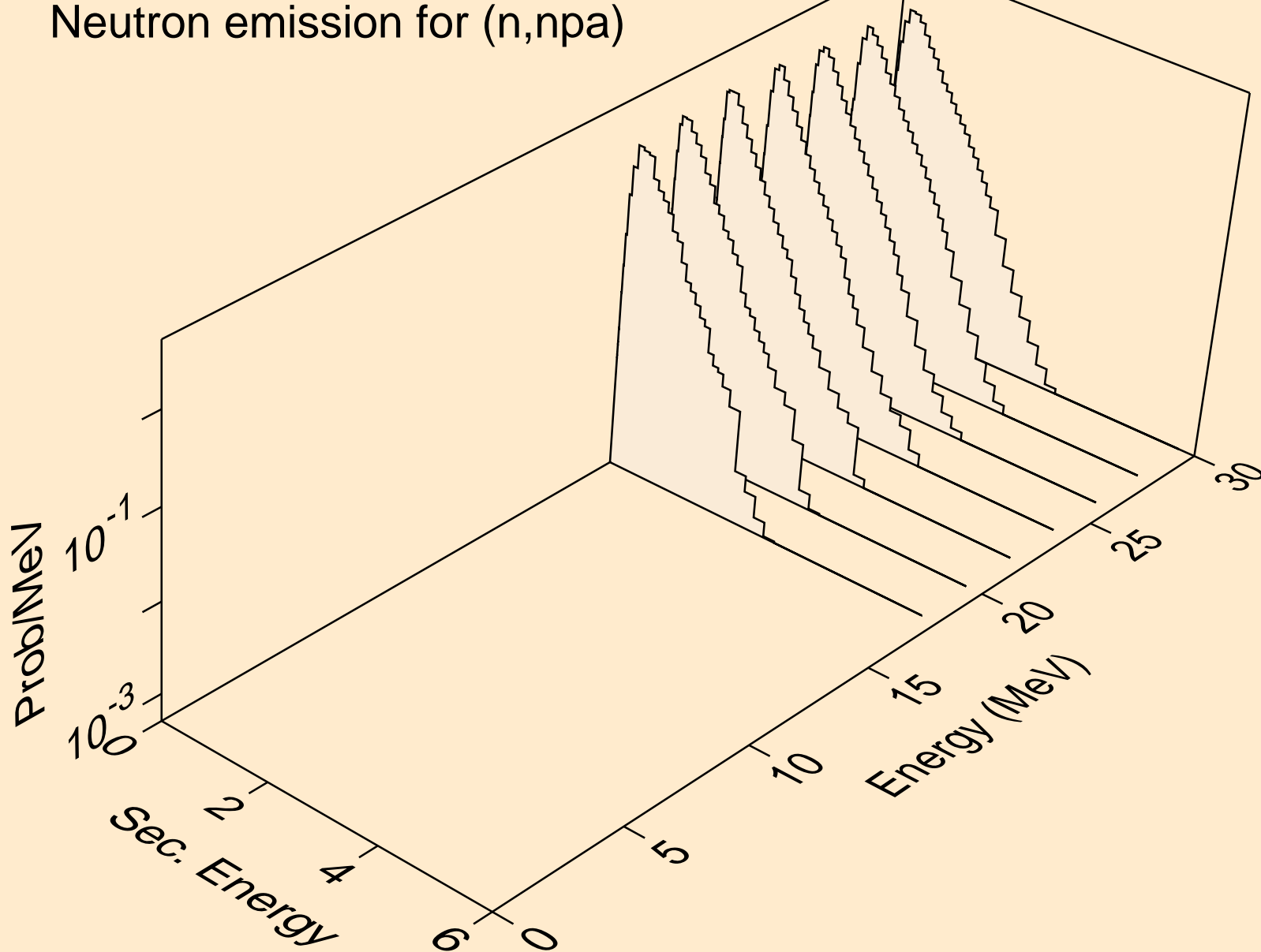
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



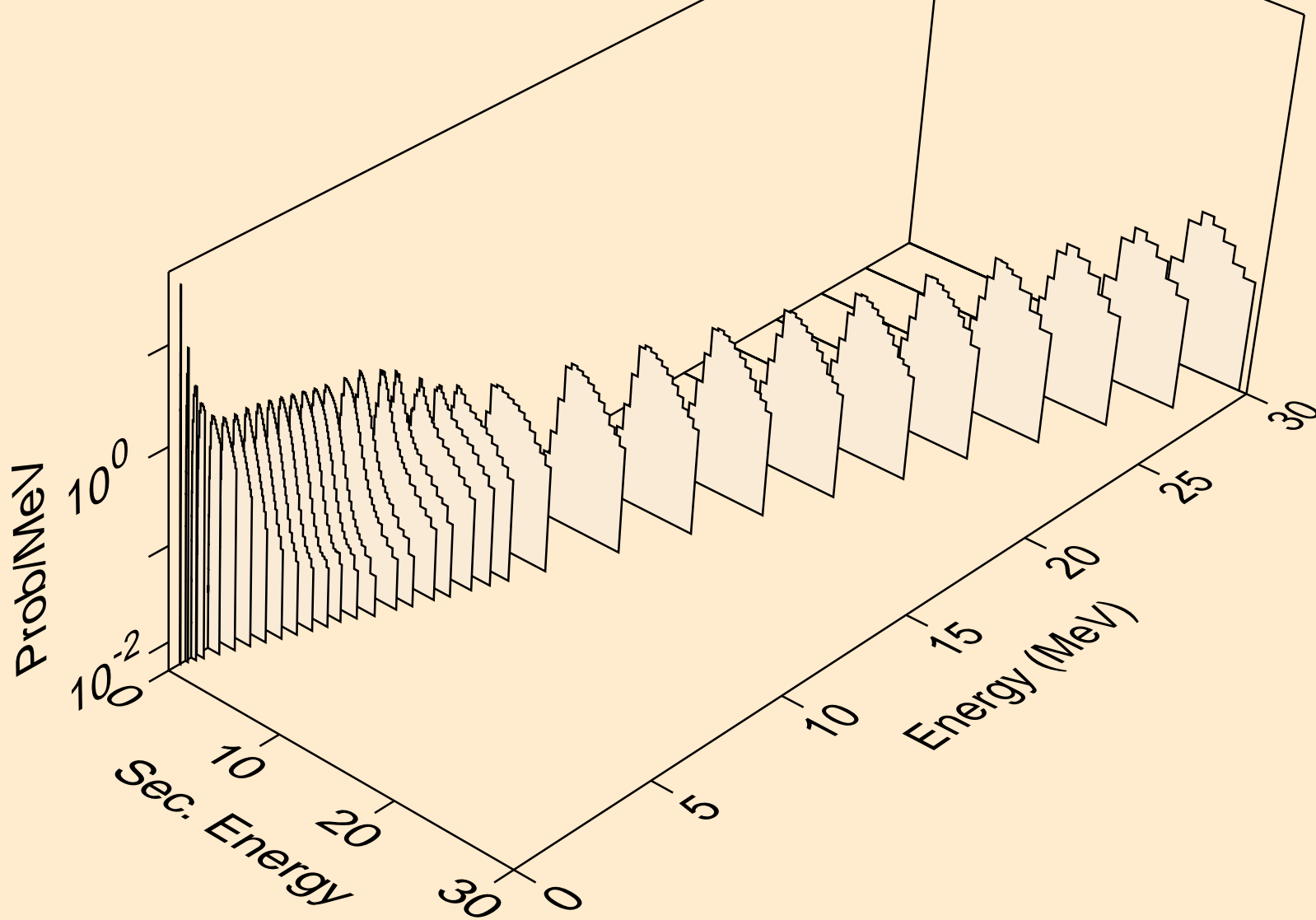
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



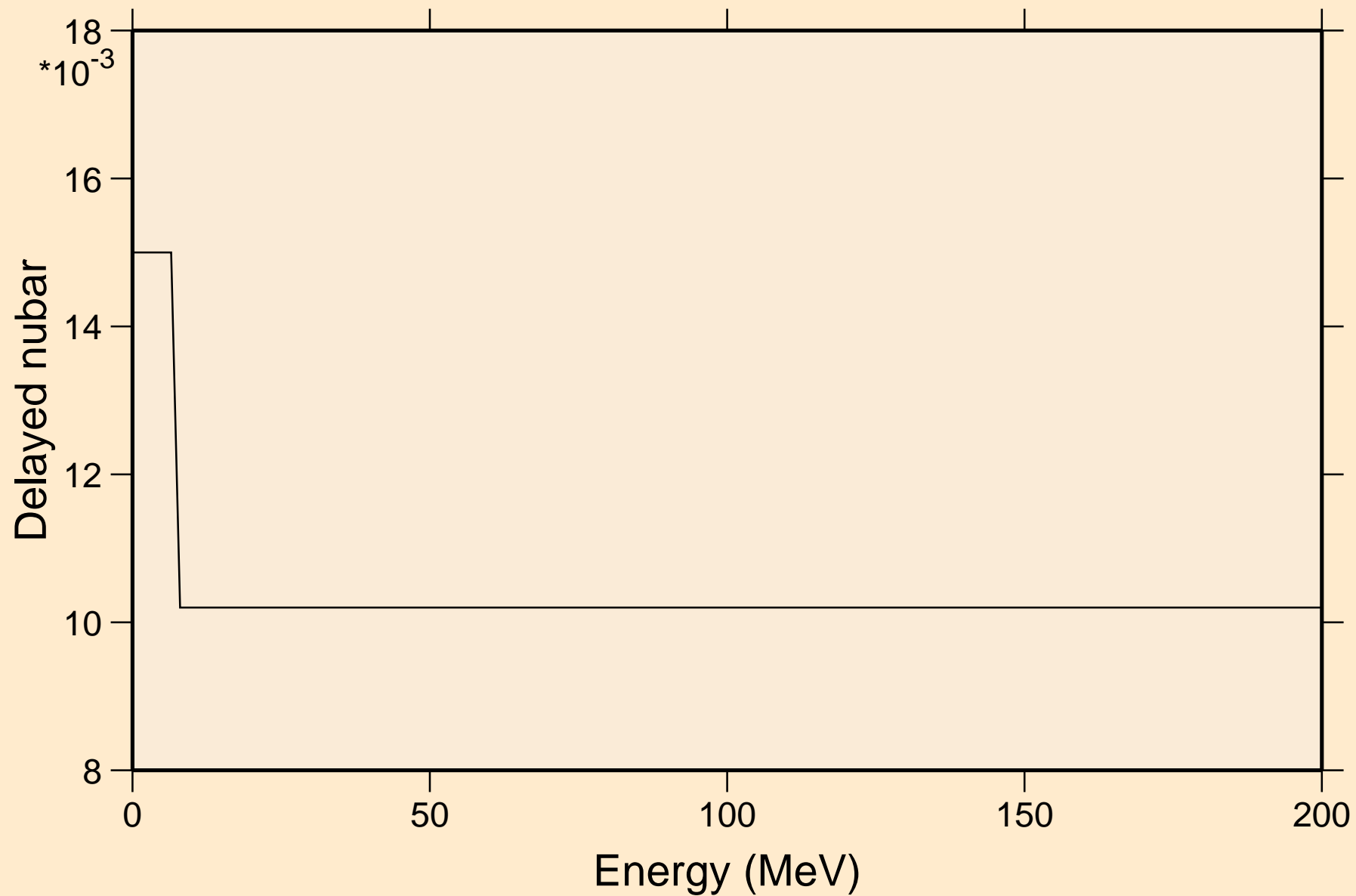
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



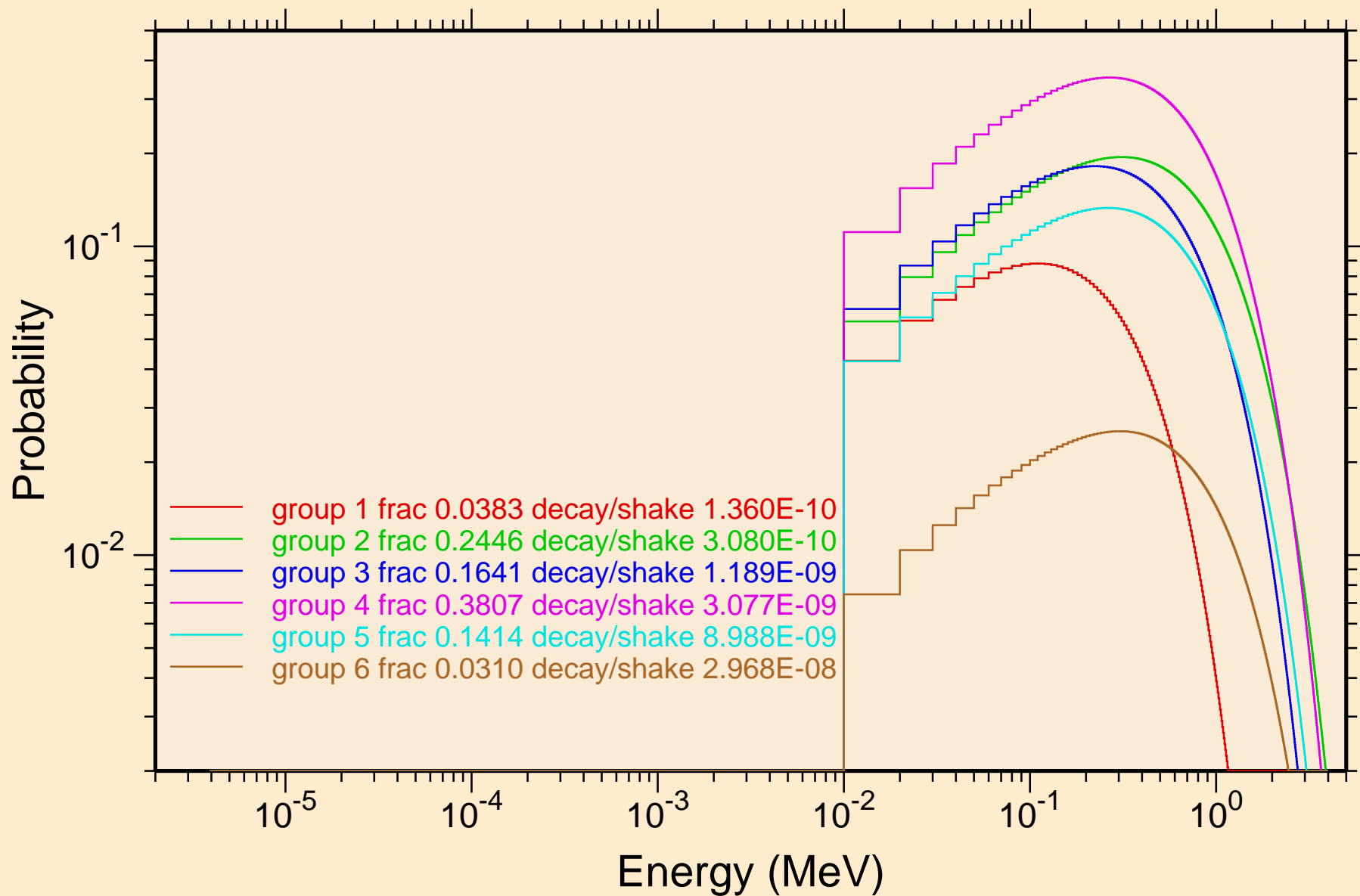
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



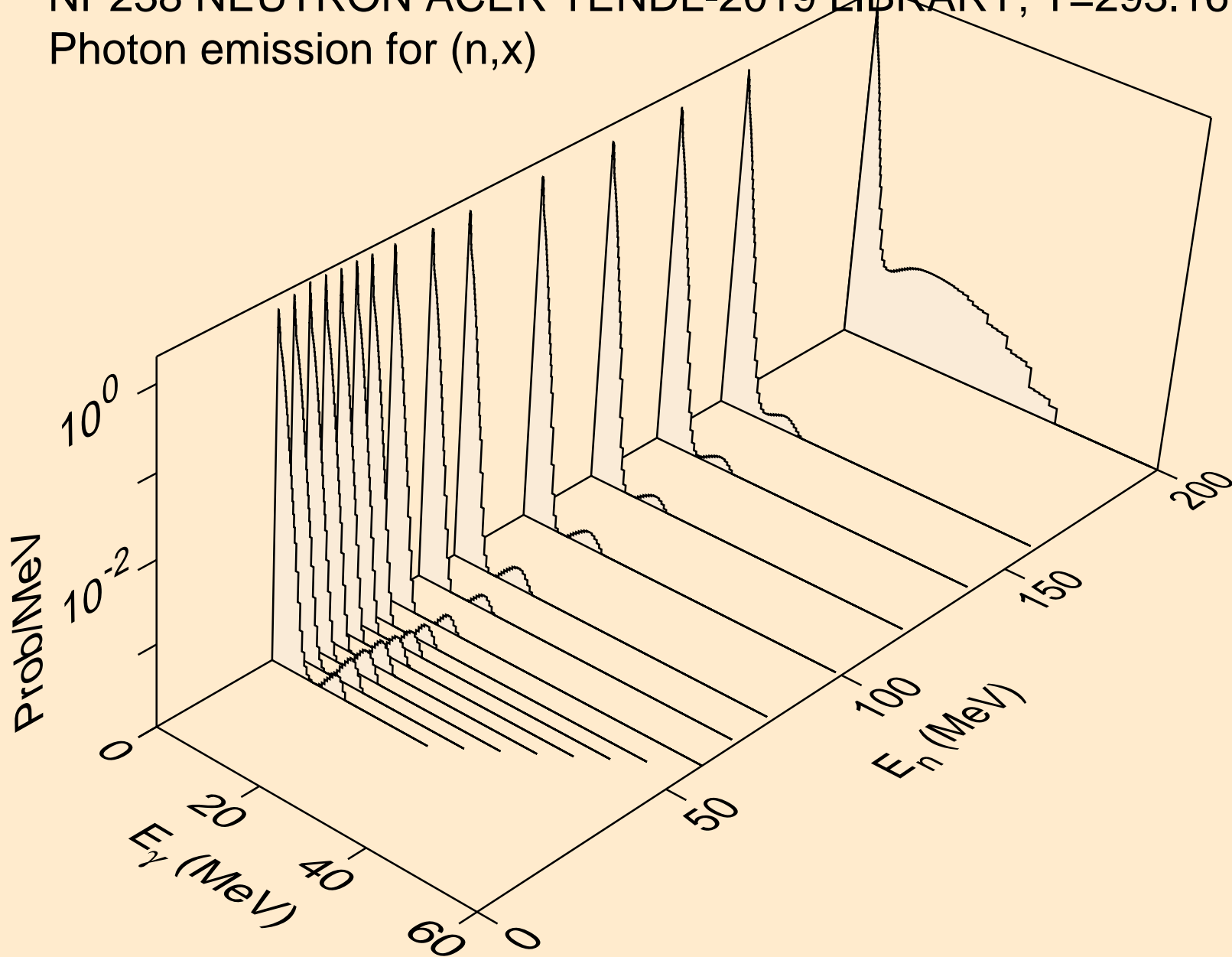
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Delayed nubar



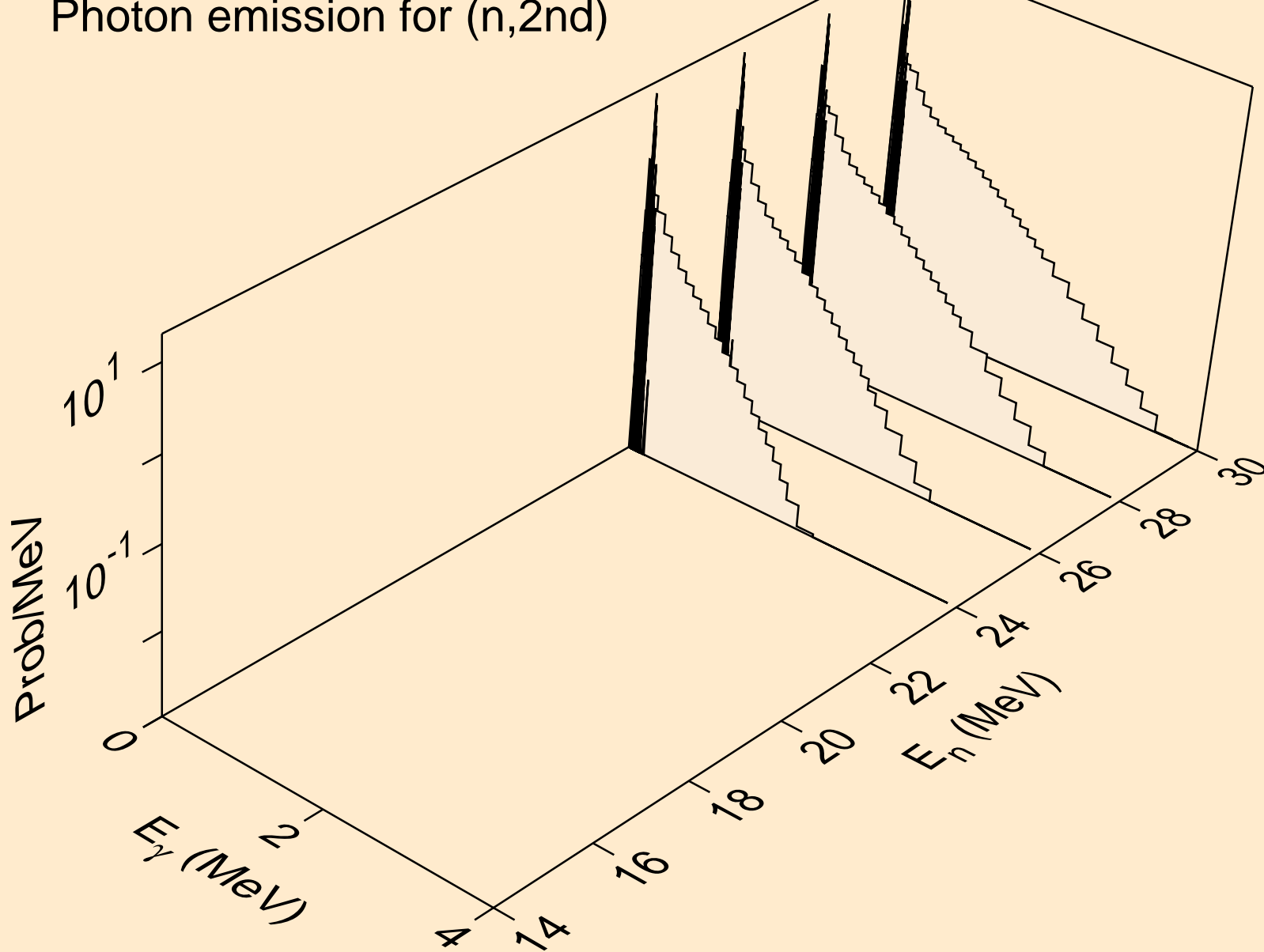
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Delayed neutron spectra



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

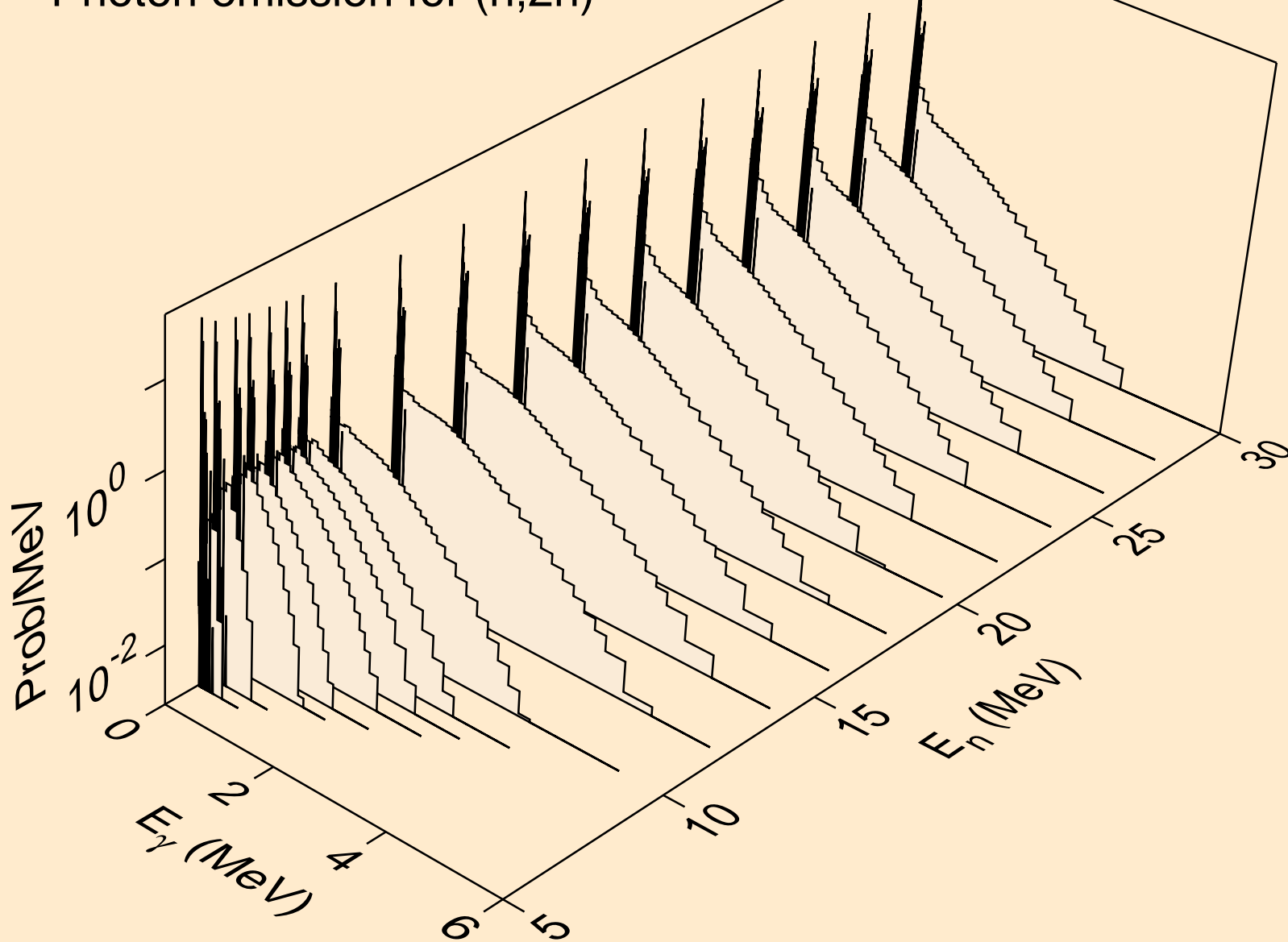


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)

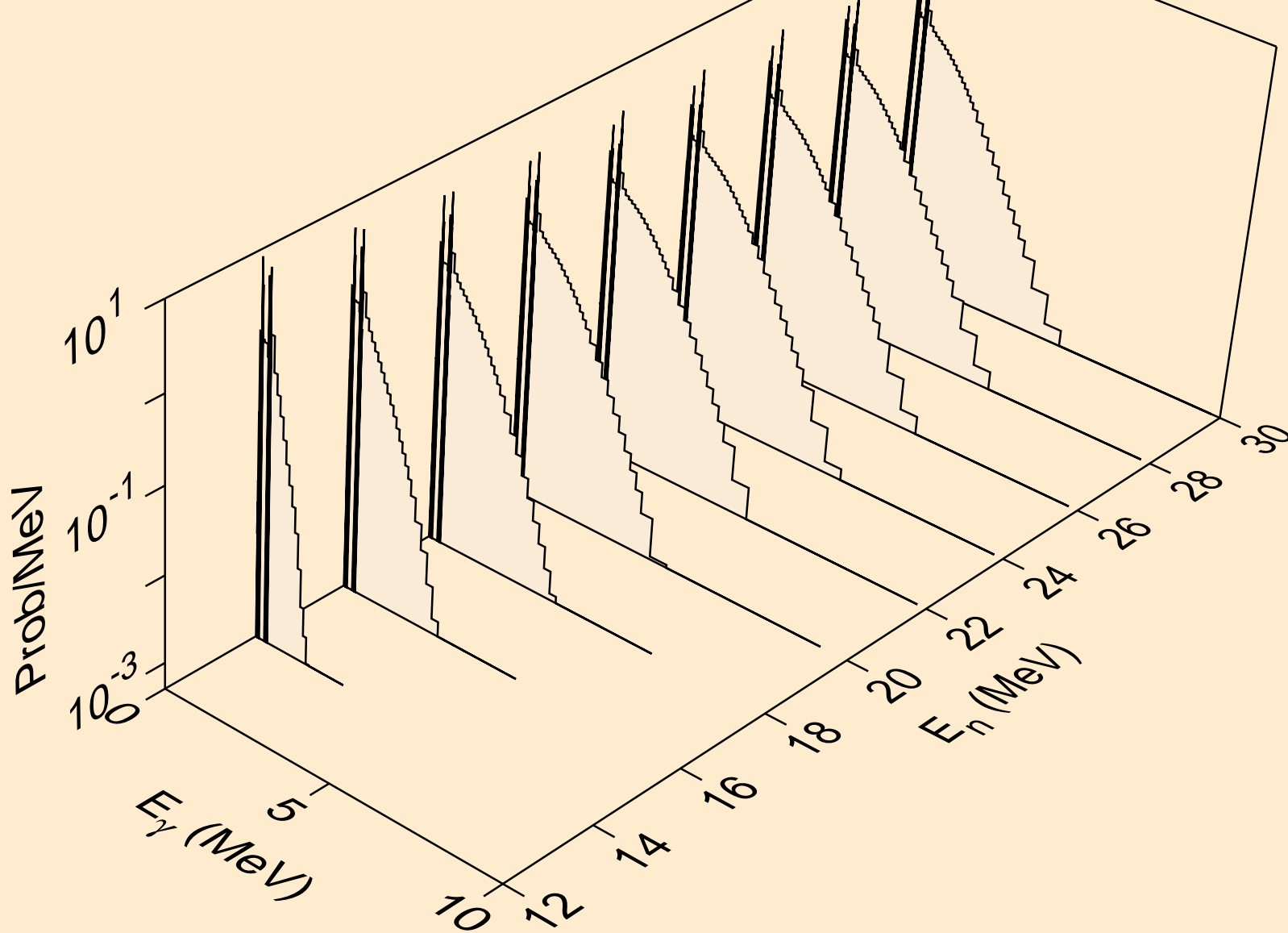




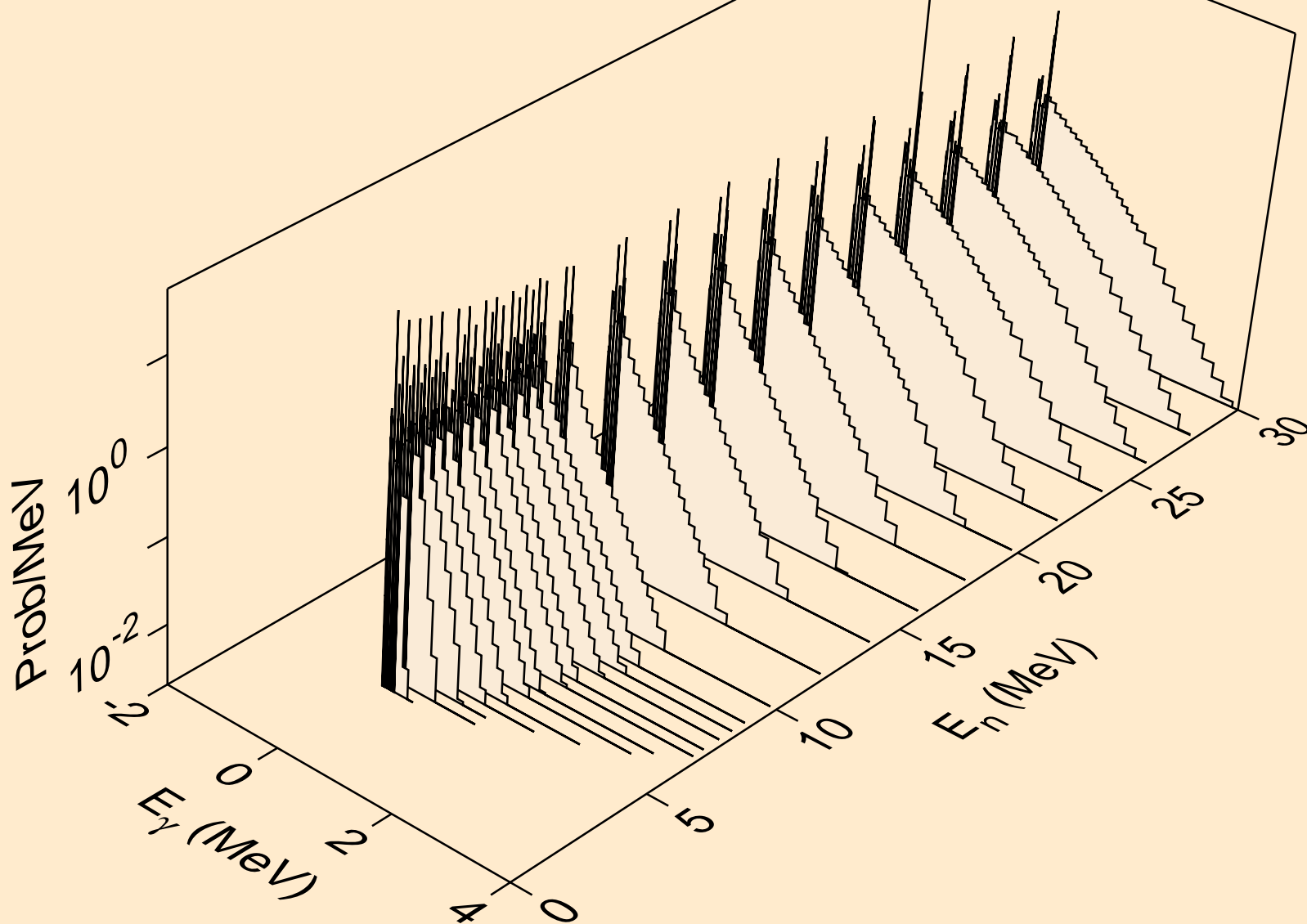
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



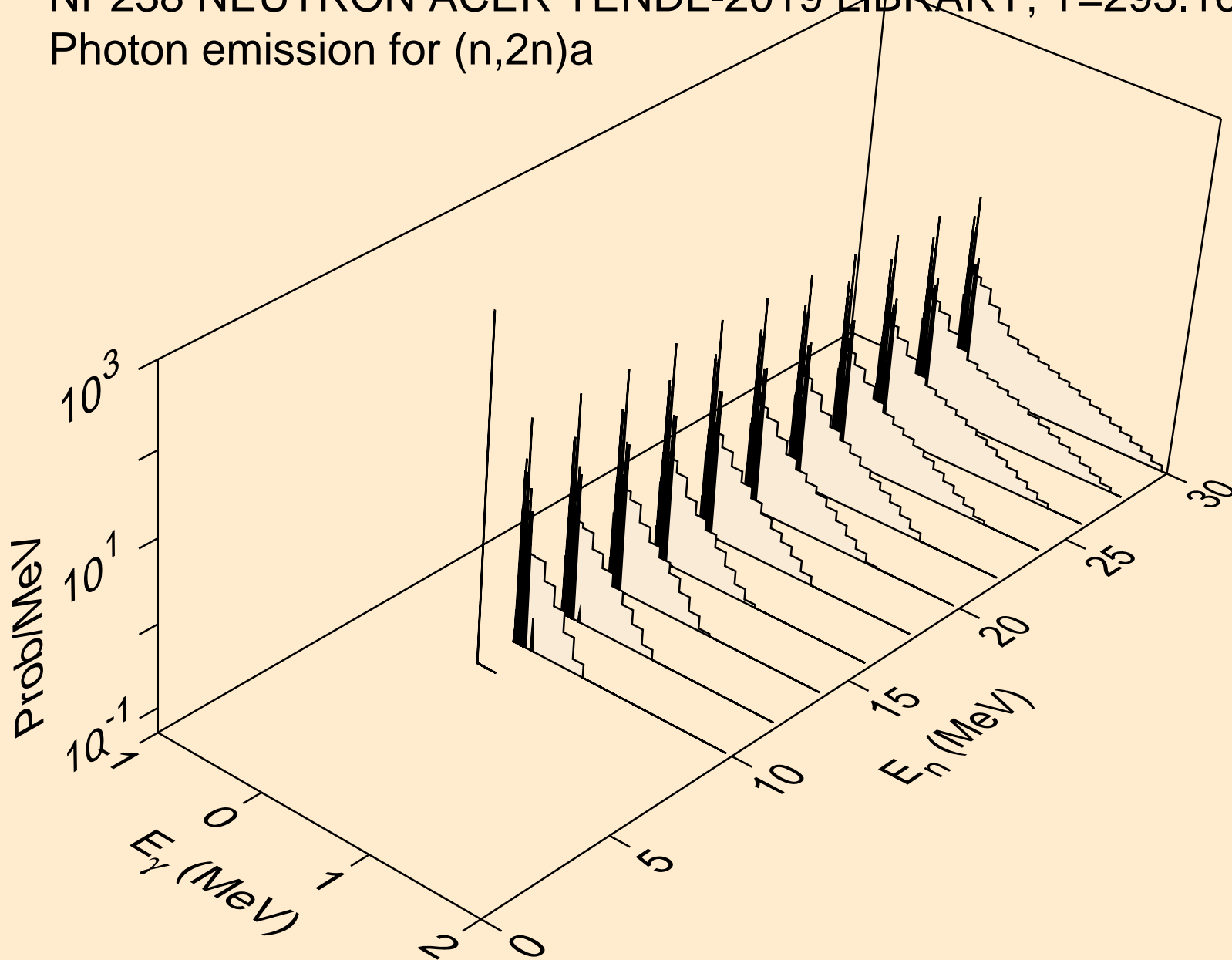
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



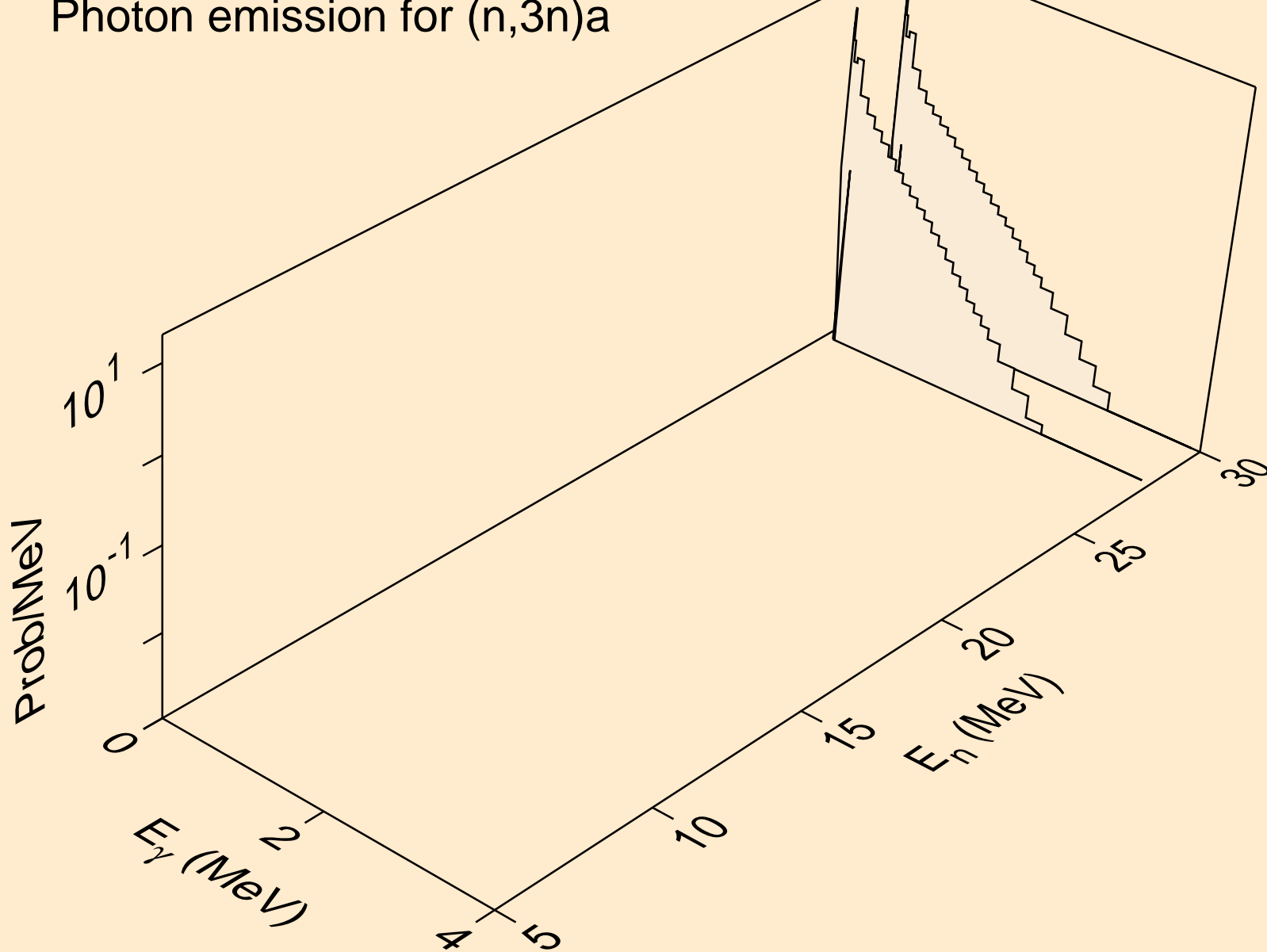
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



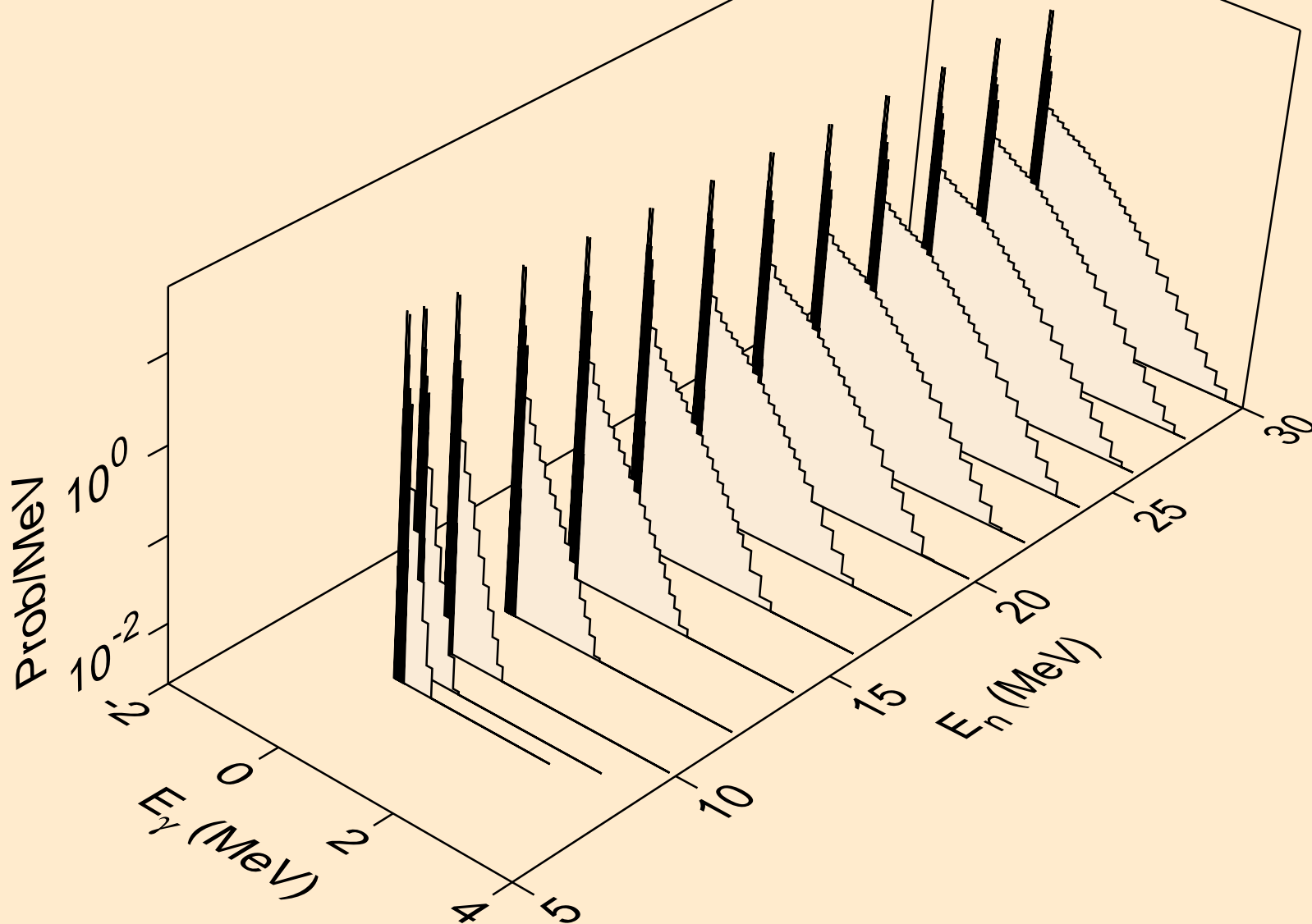
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a



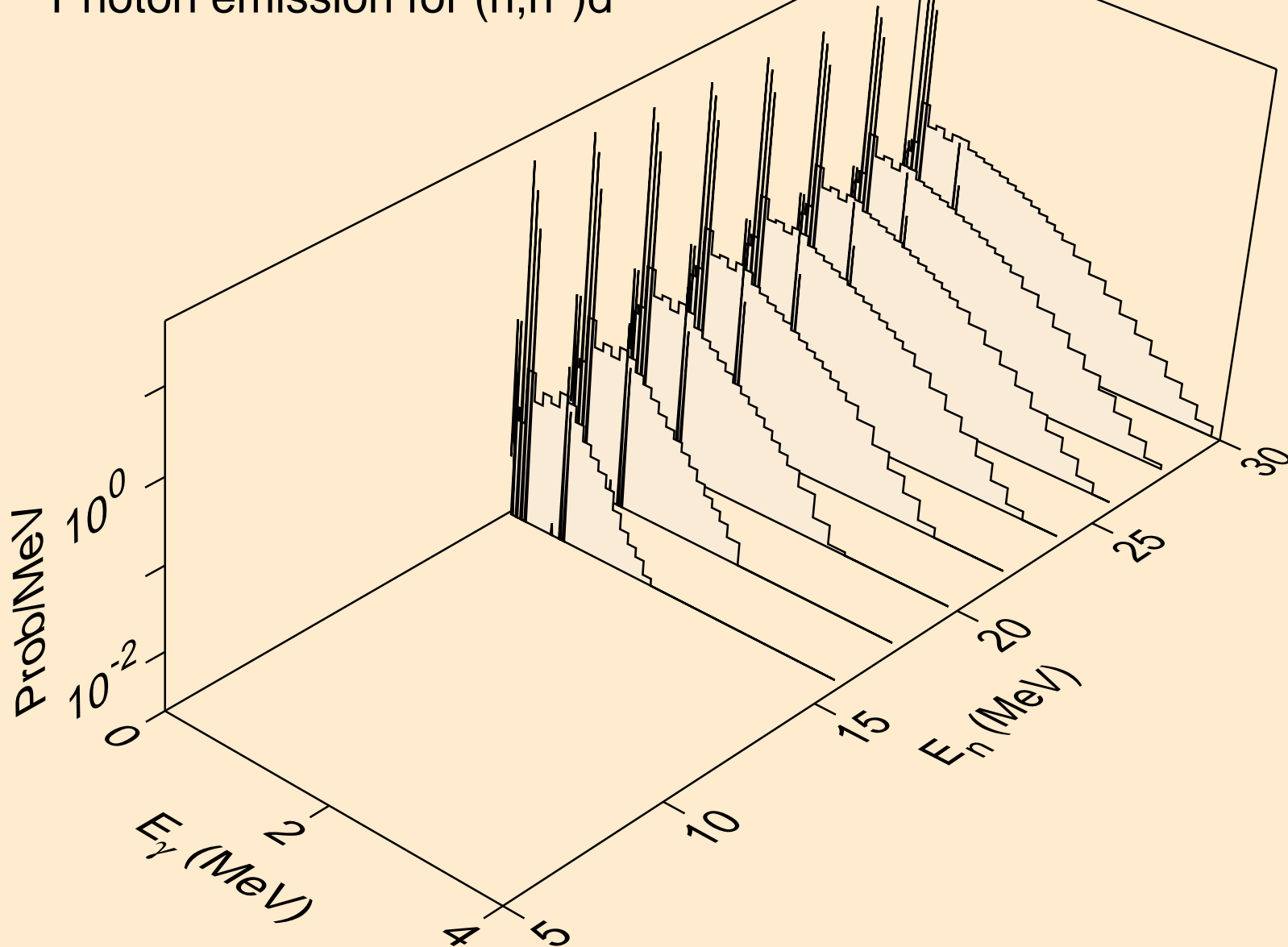
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Photon emission for (n,3n)a



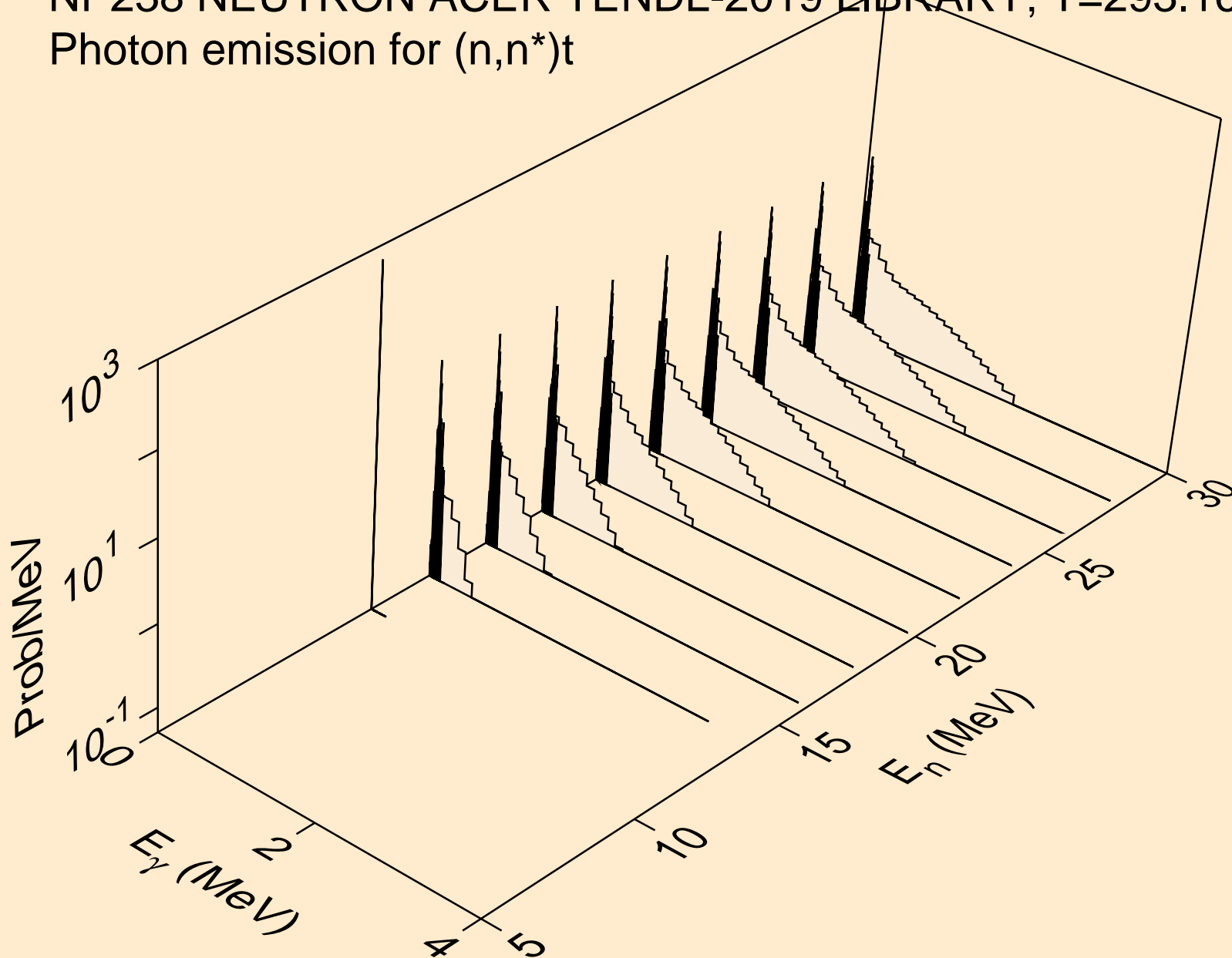
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d

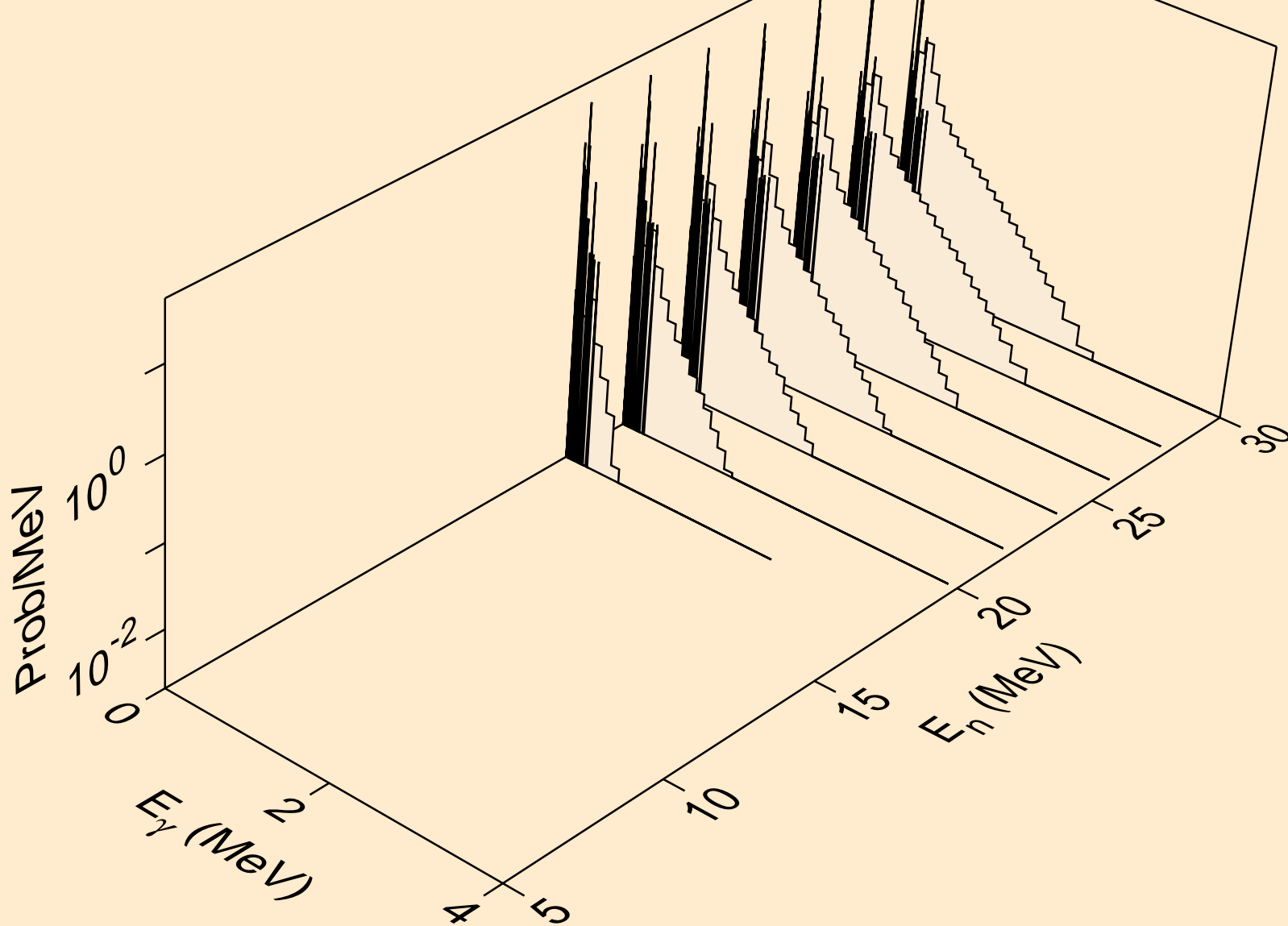


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t

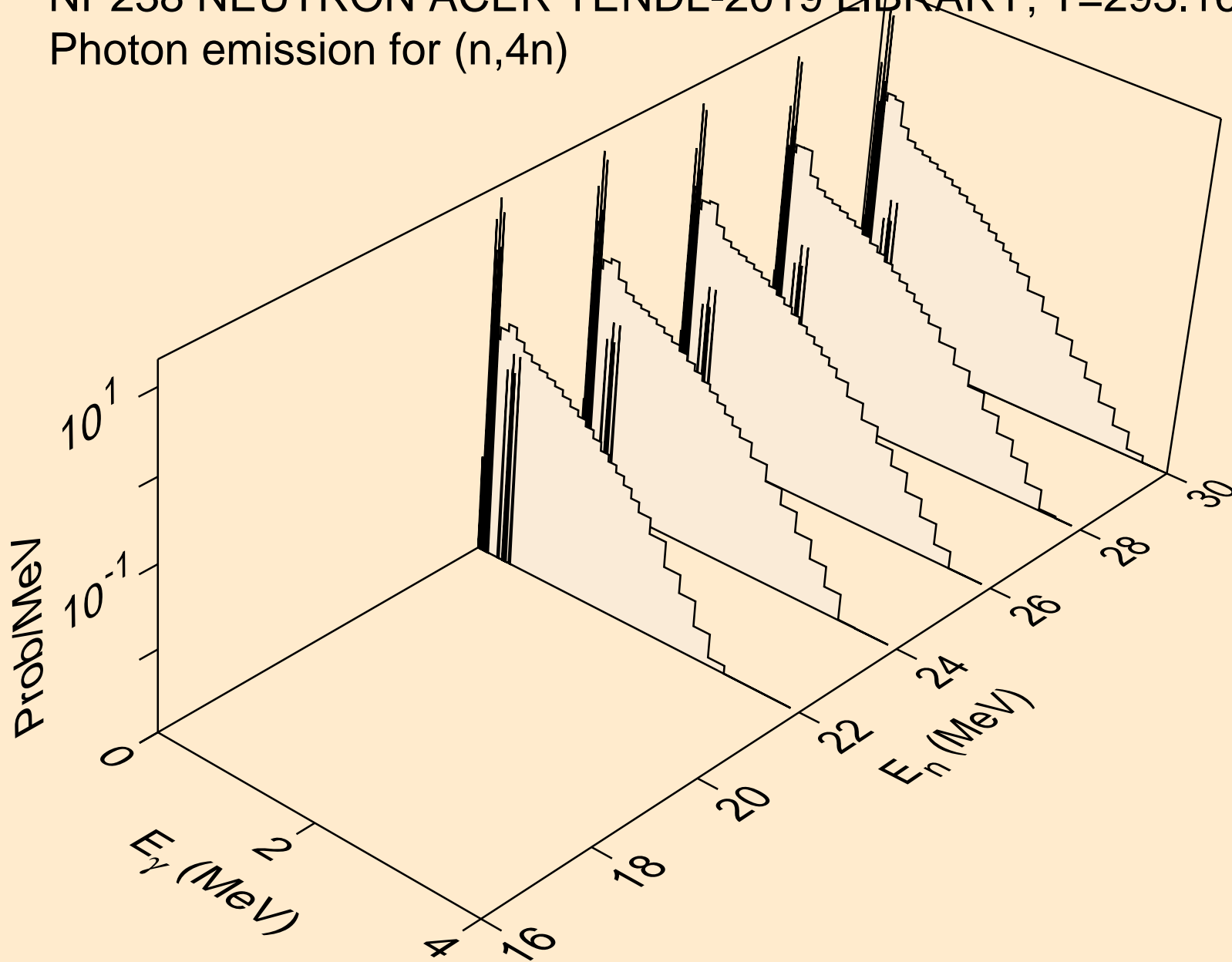




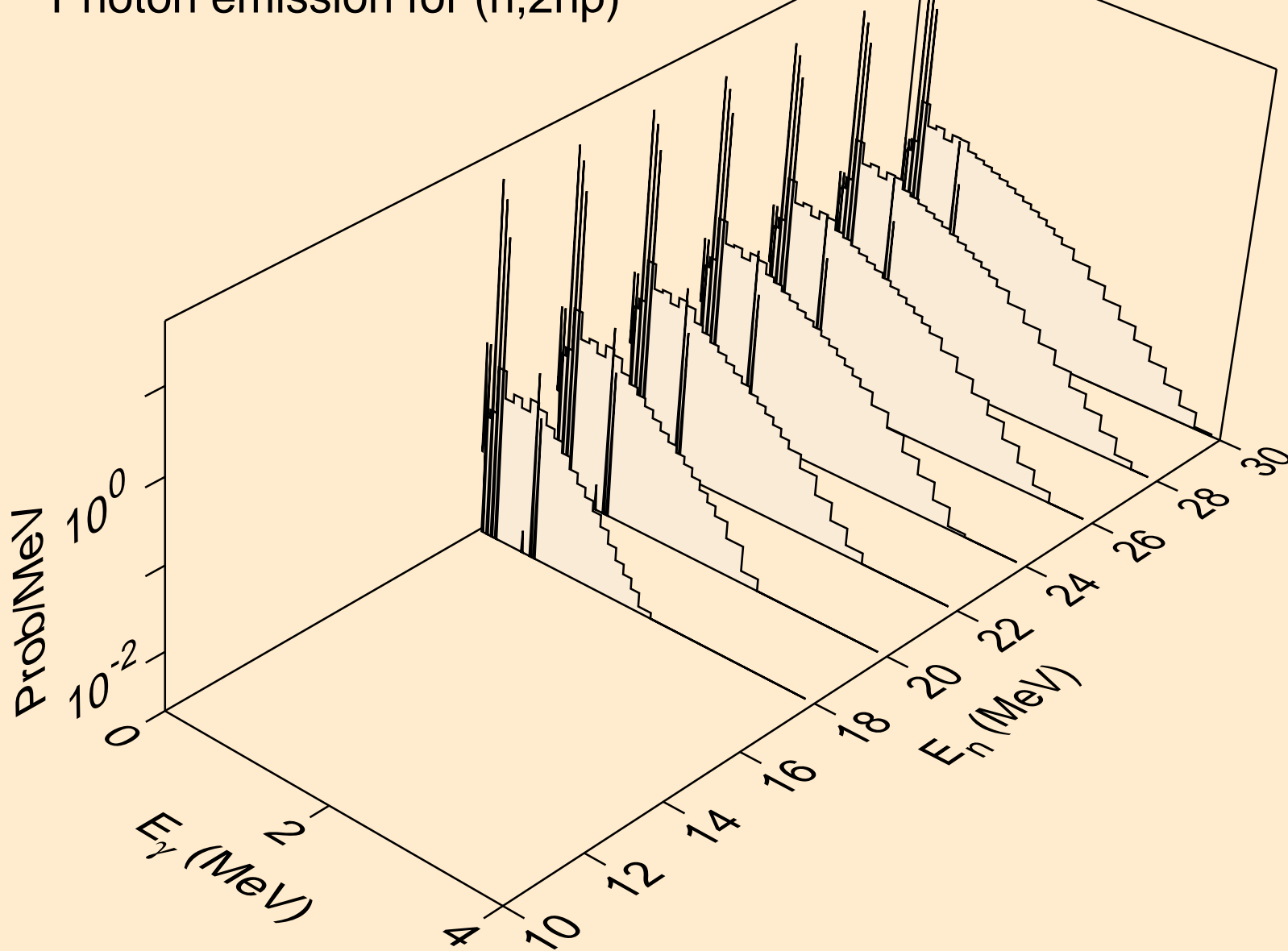
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3



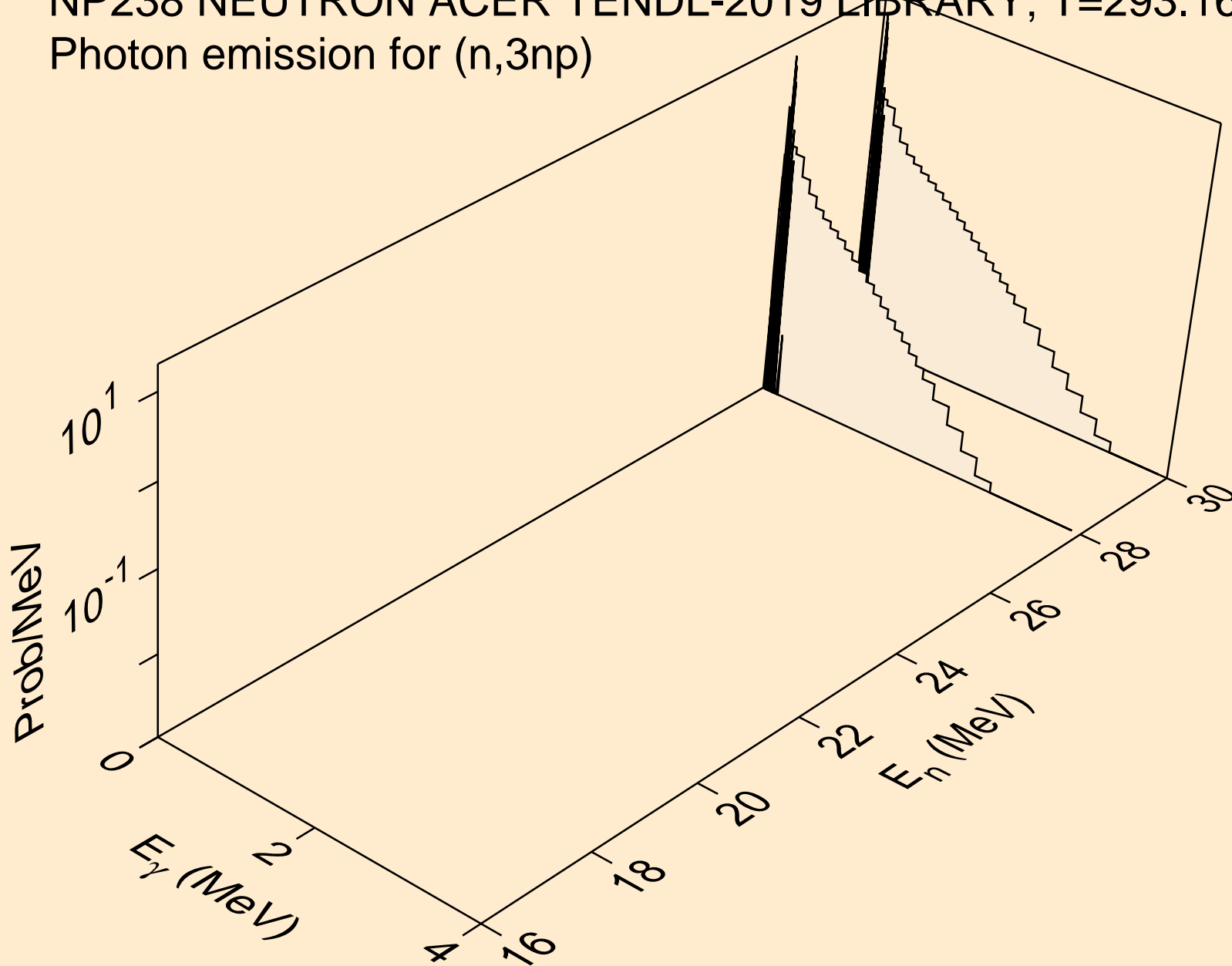
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)



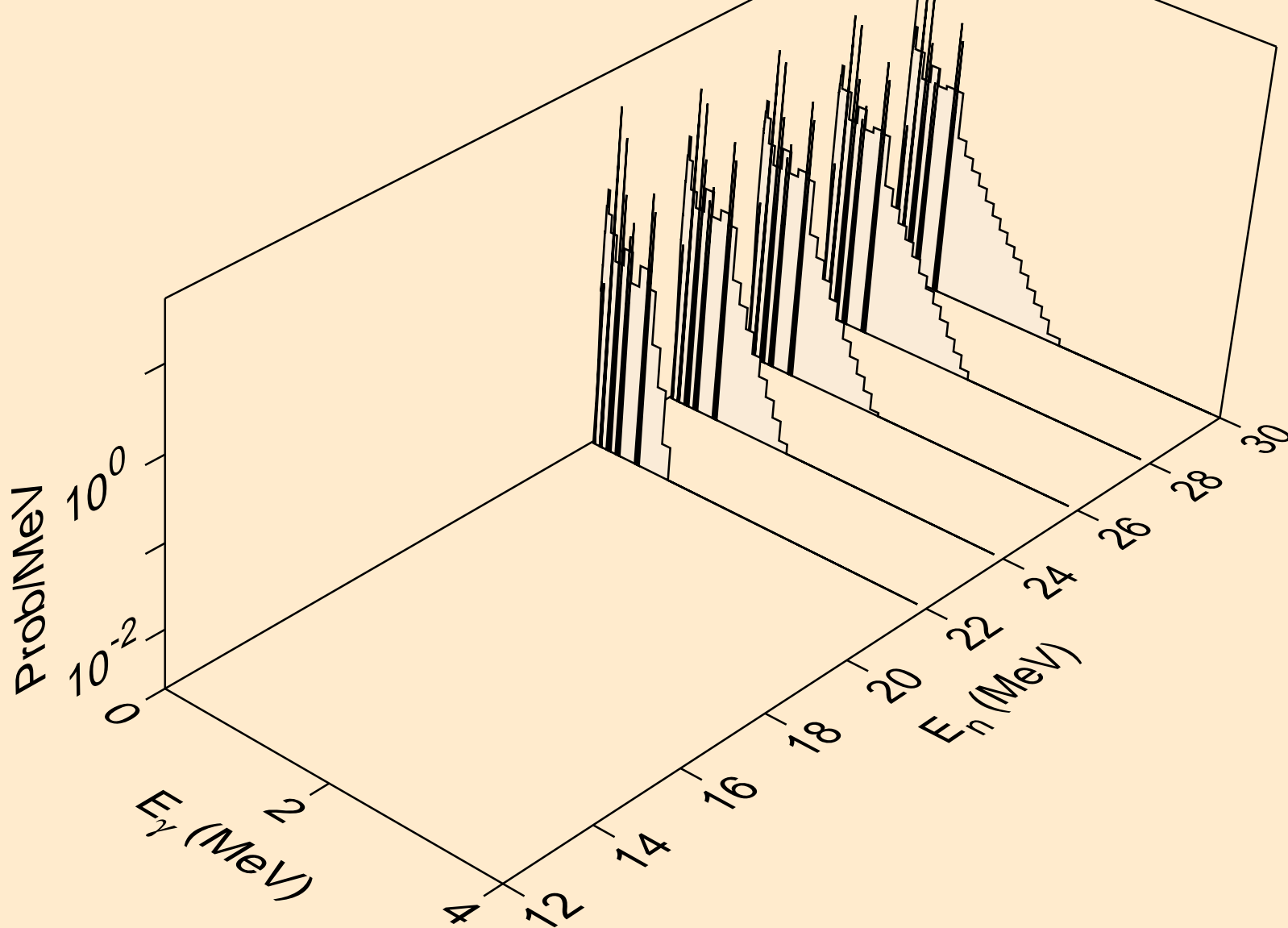
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



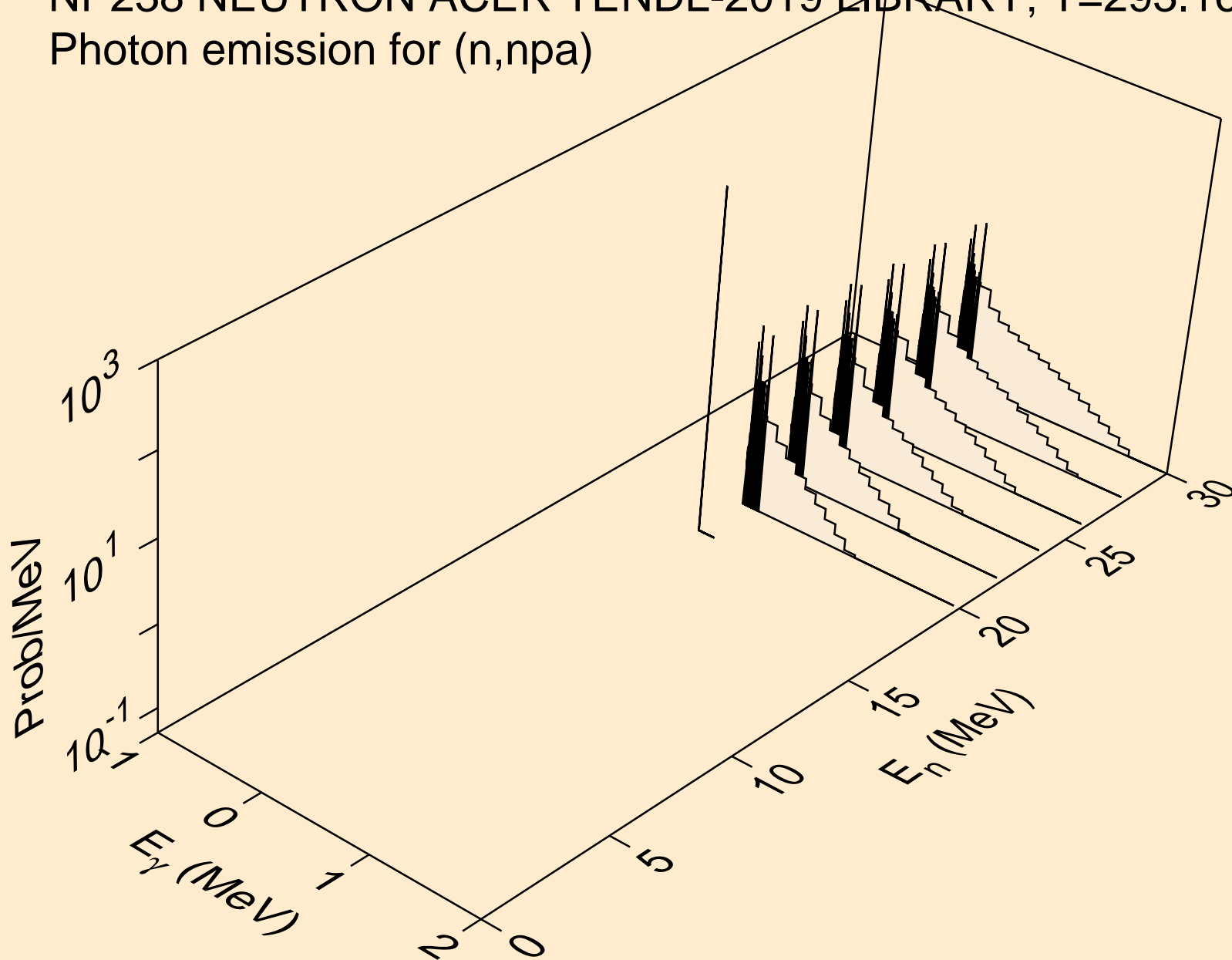
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Photon emission for (n,3np)



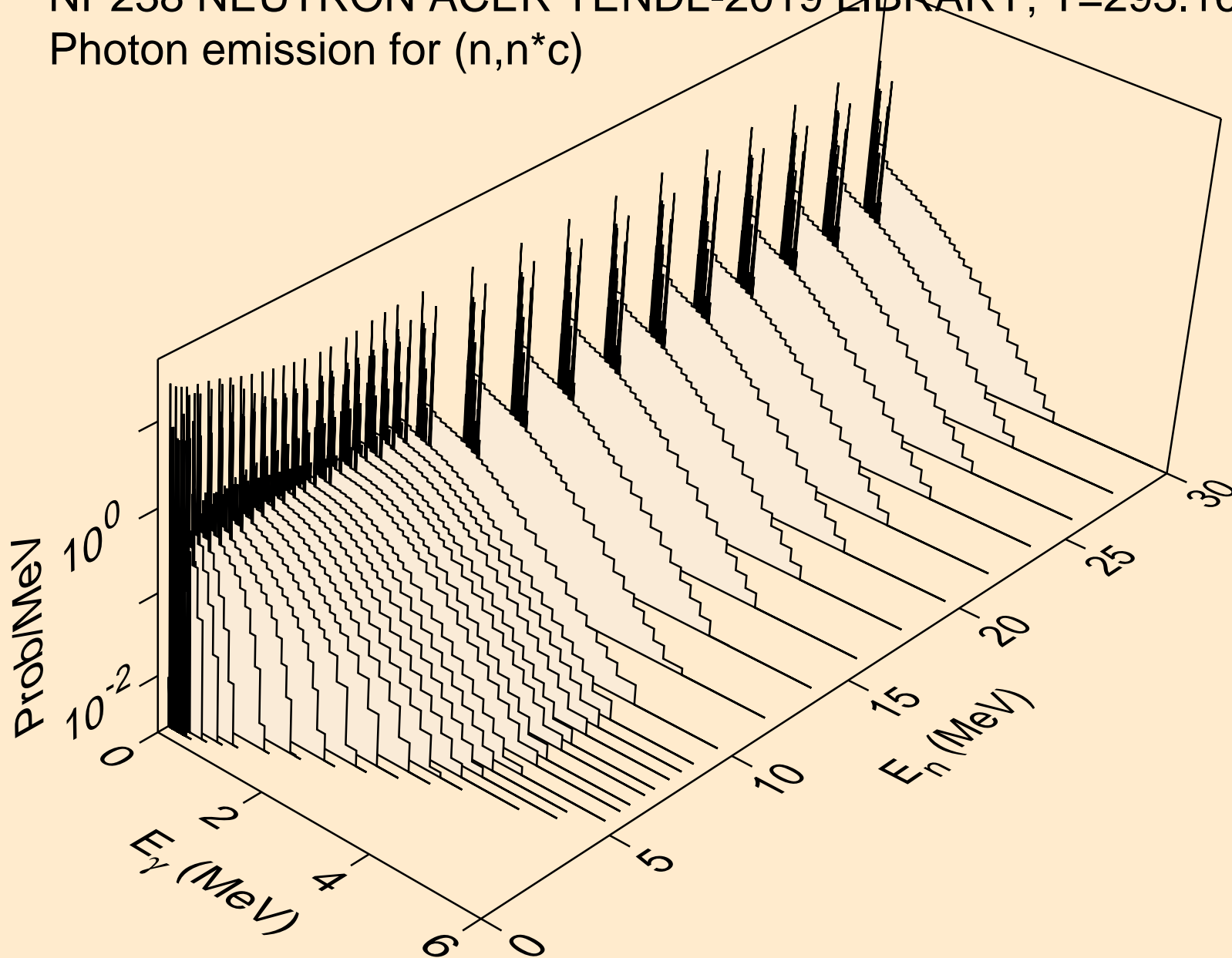
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Photon emission for (n,2np)



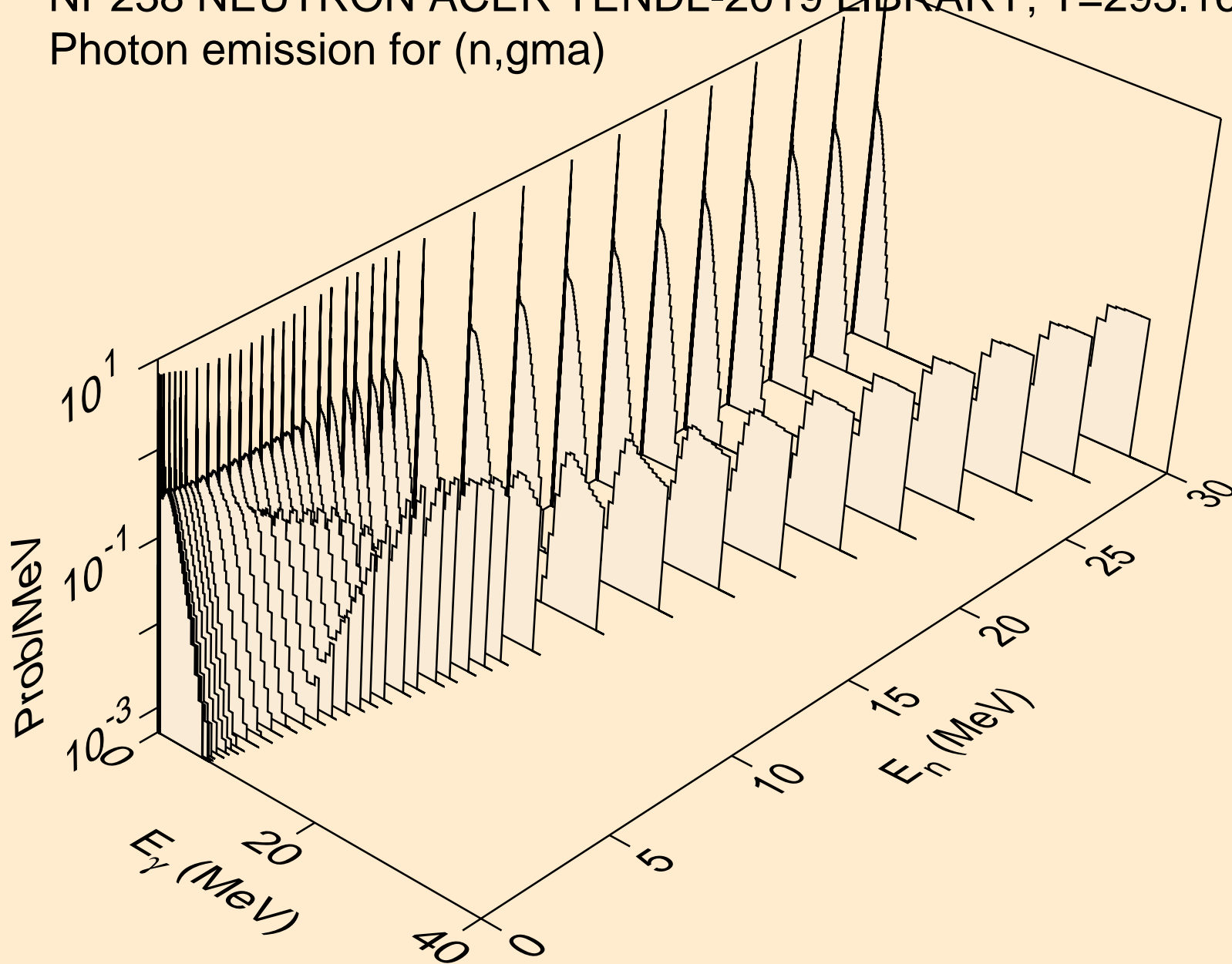
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

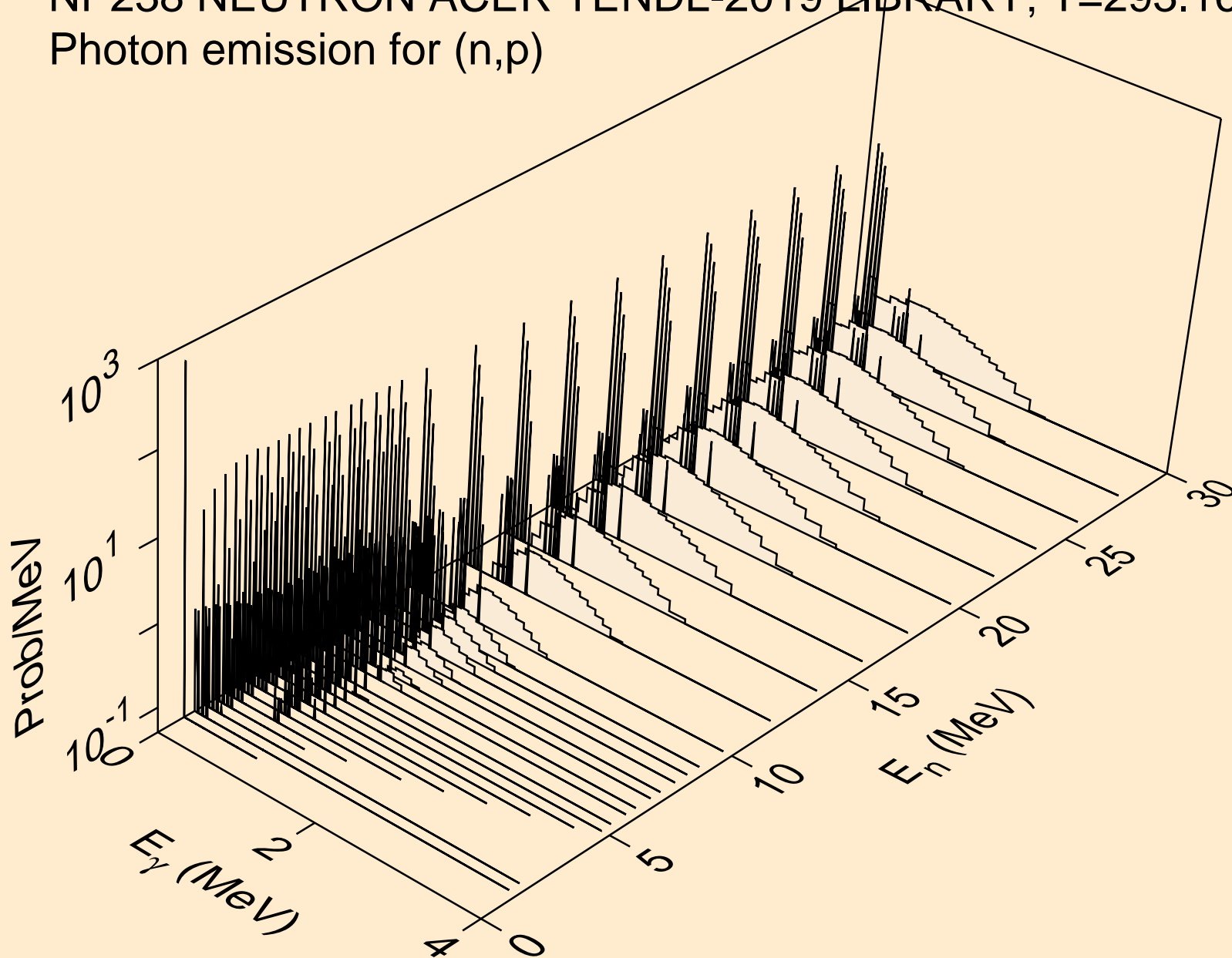


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)

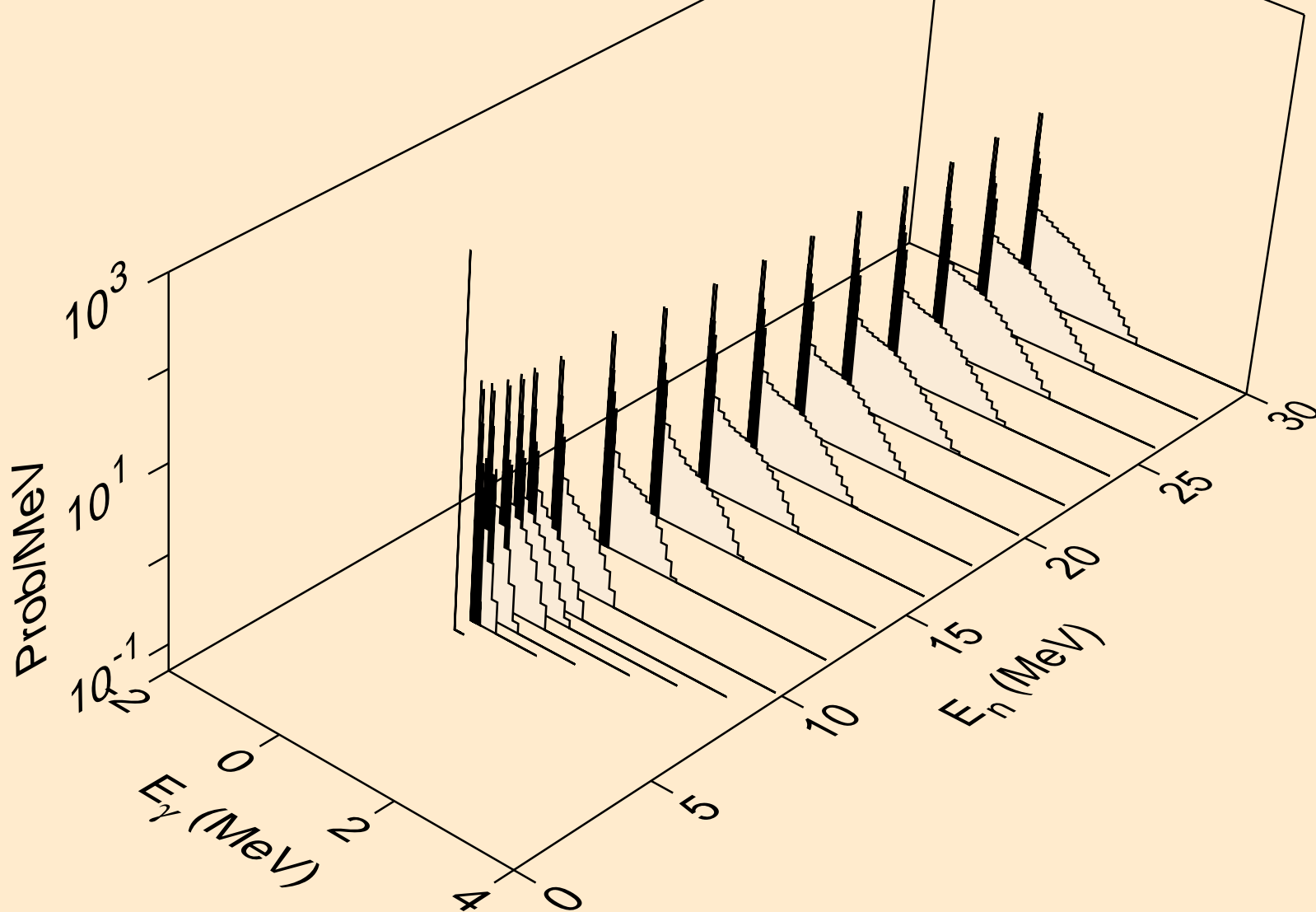




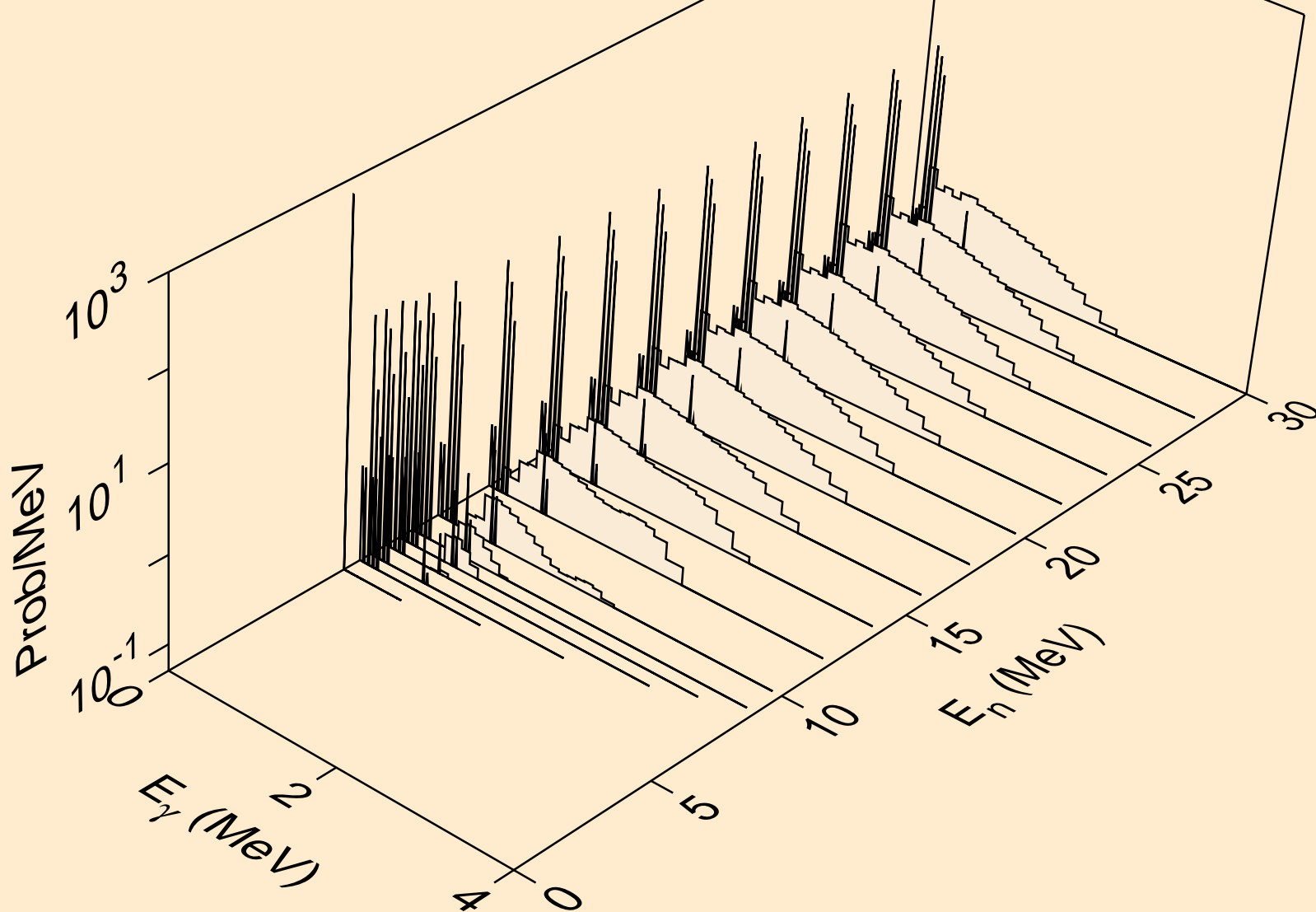
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



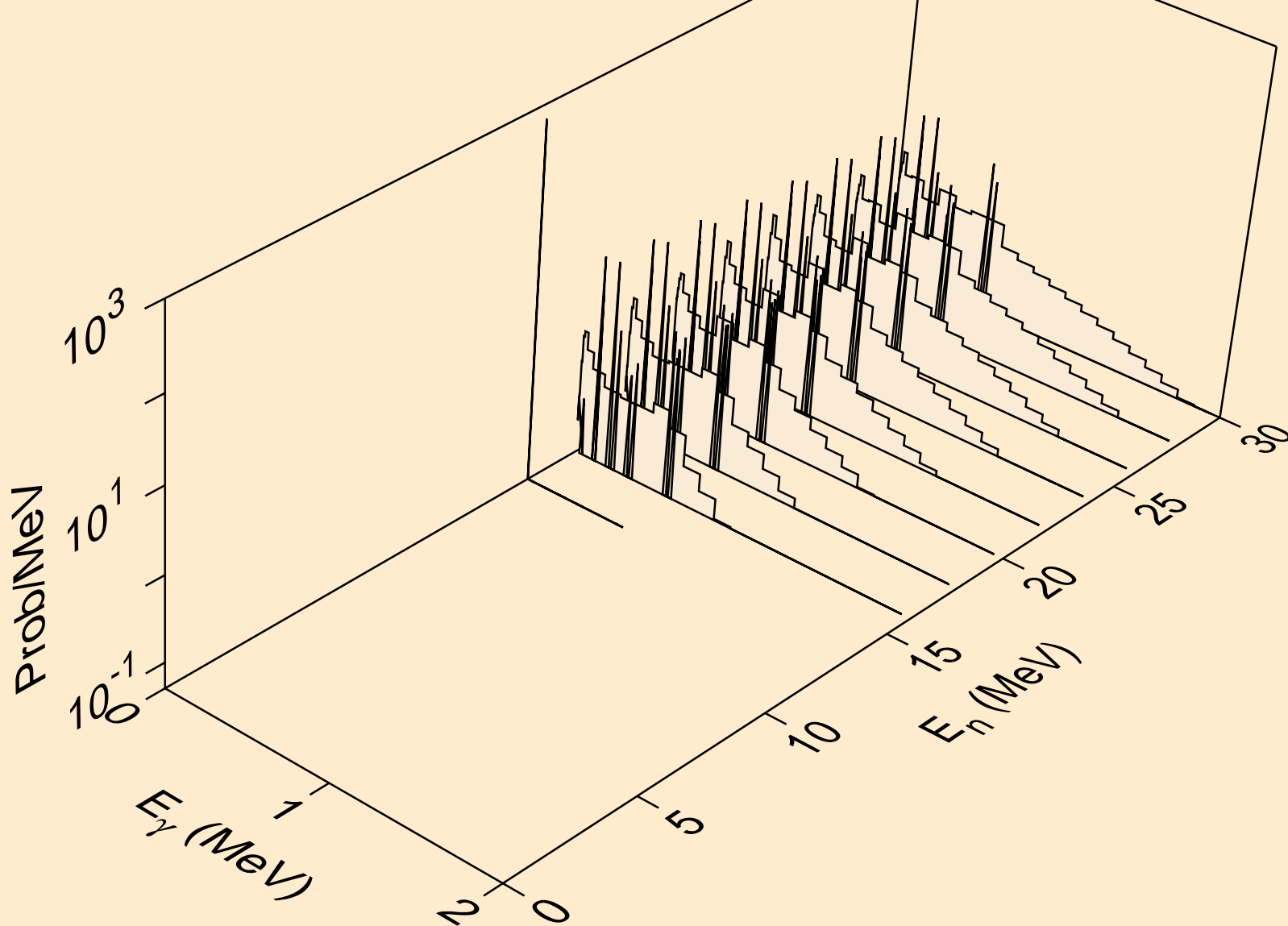
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)



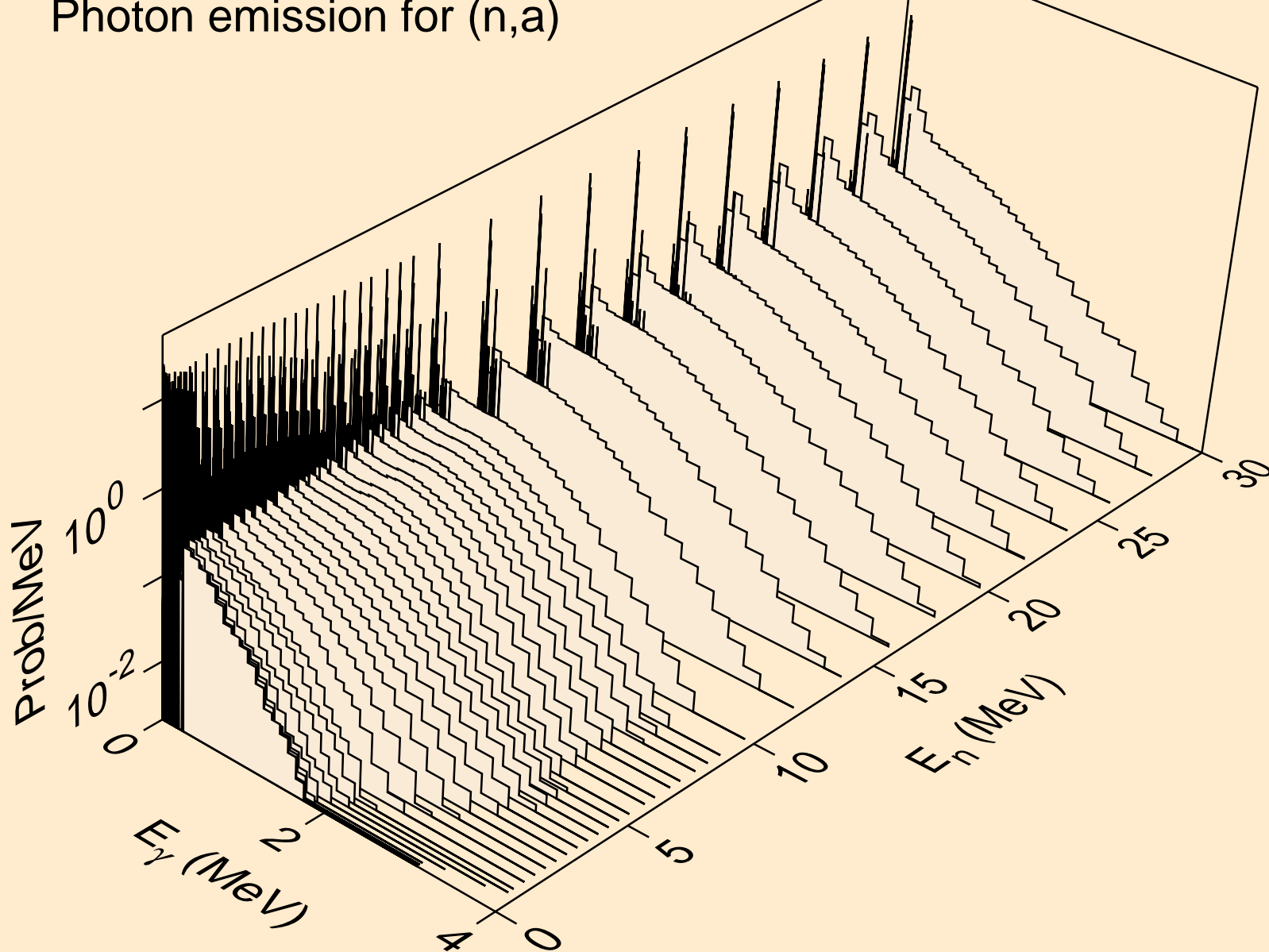
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



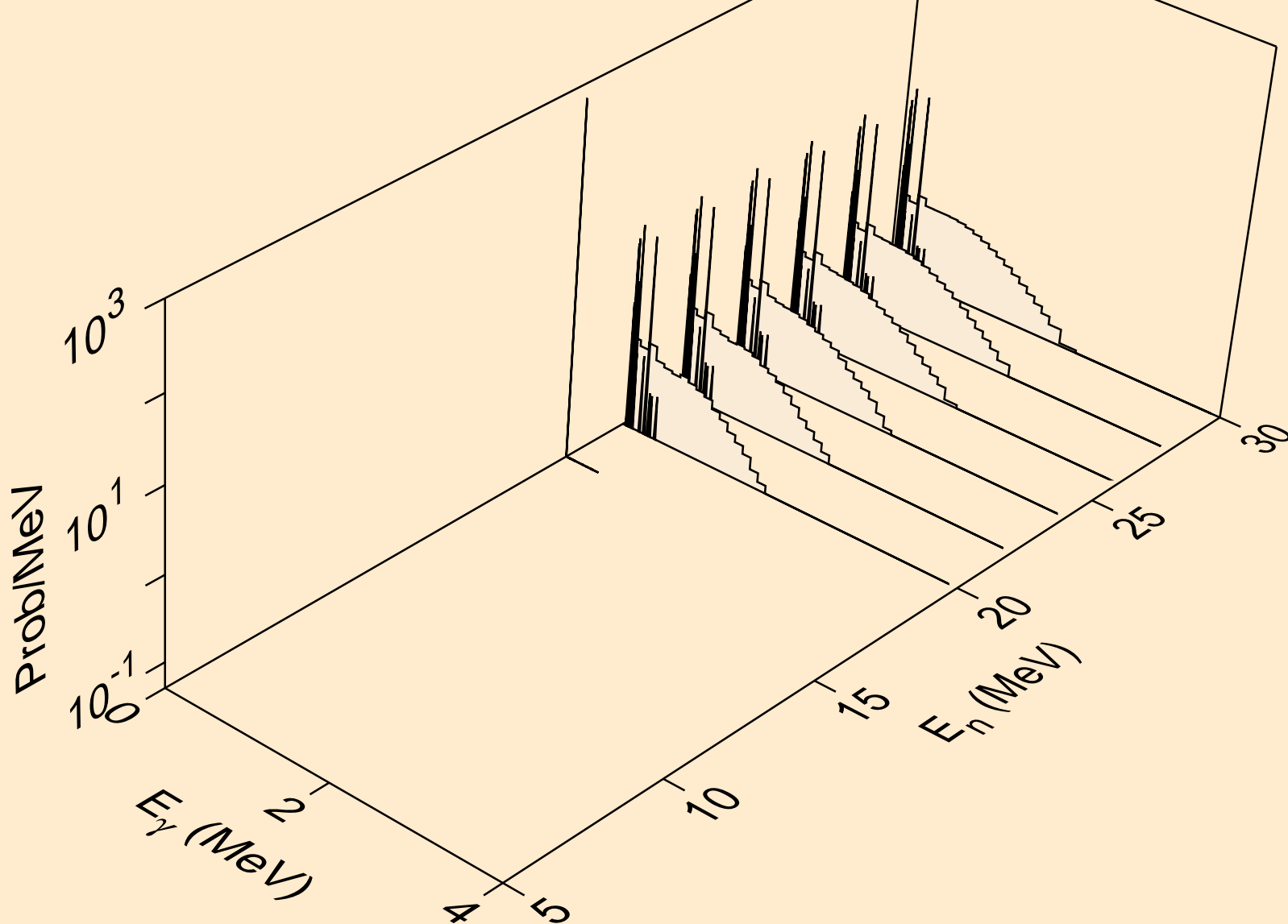
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



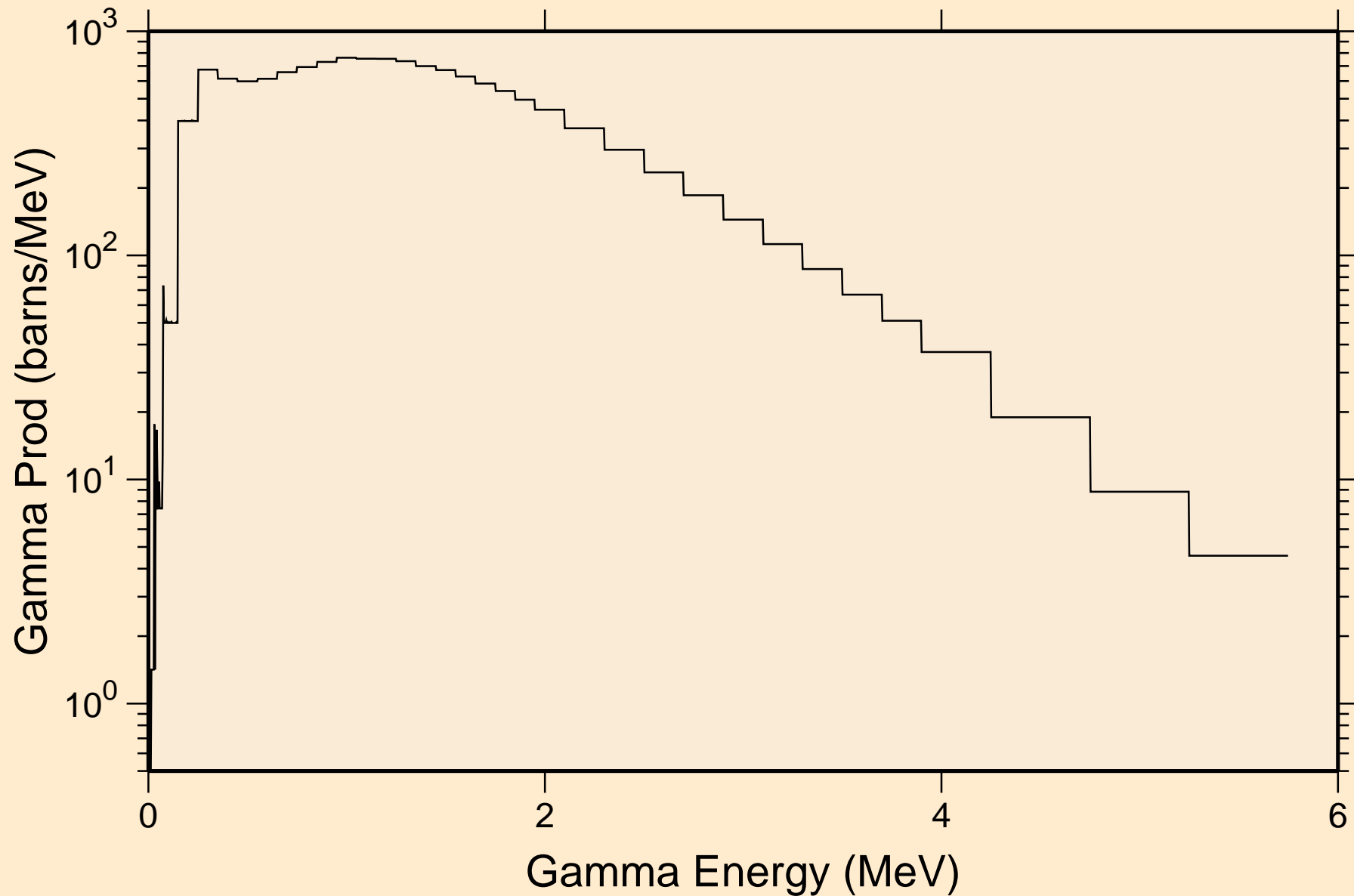
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



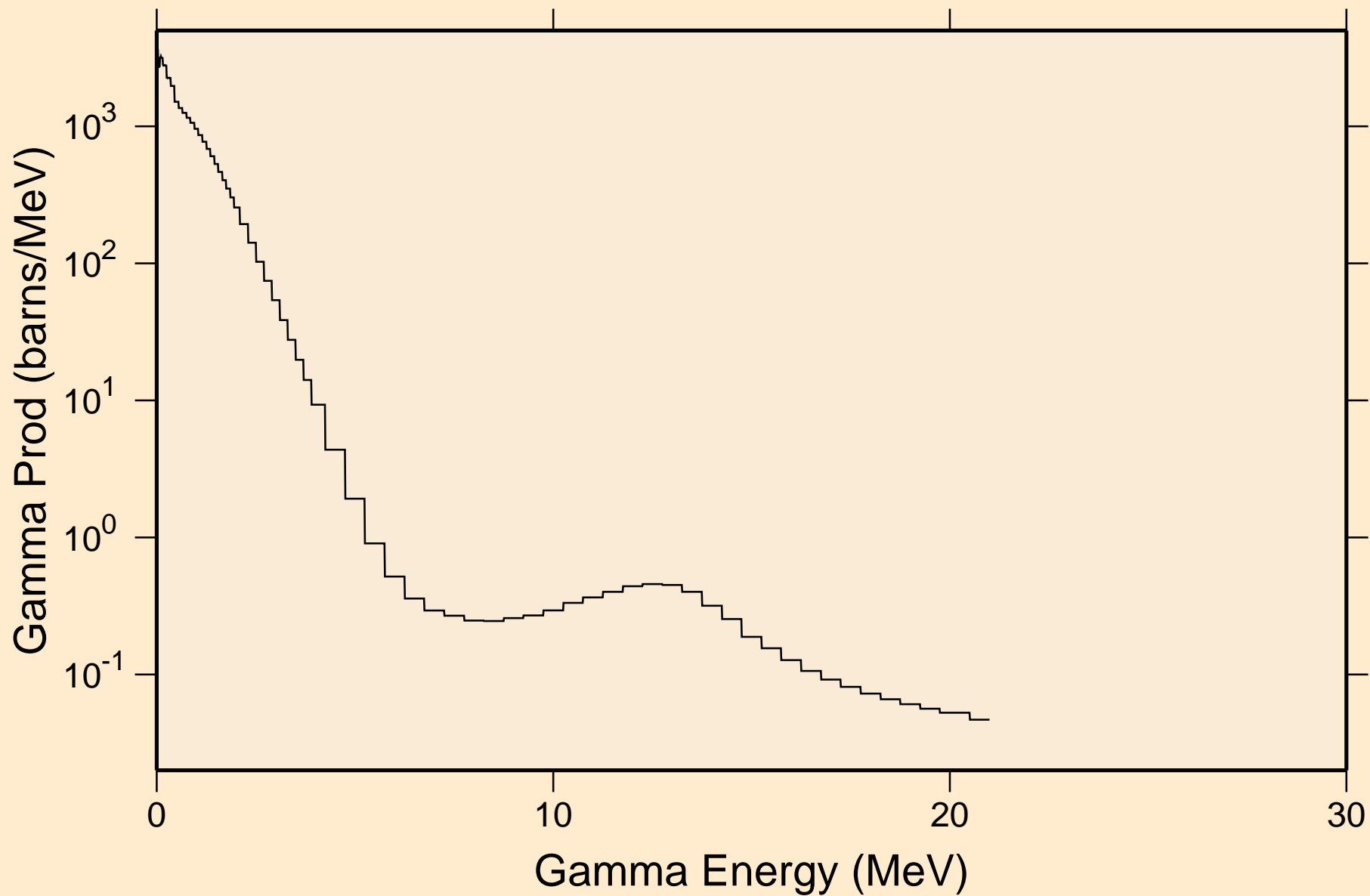
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



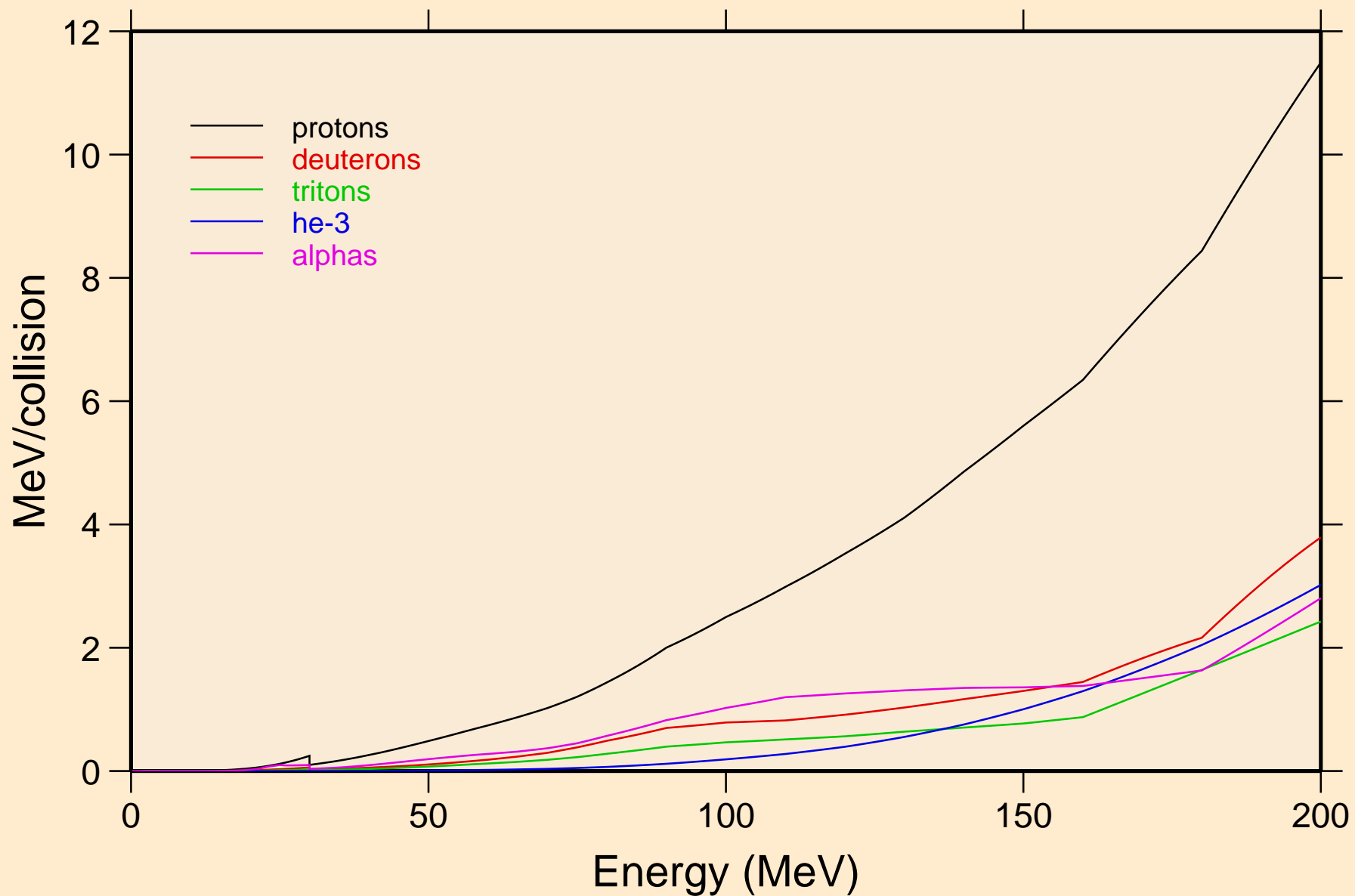
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



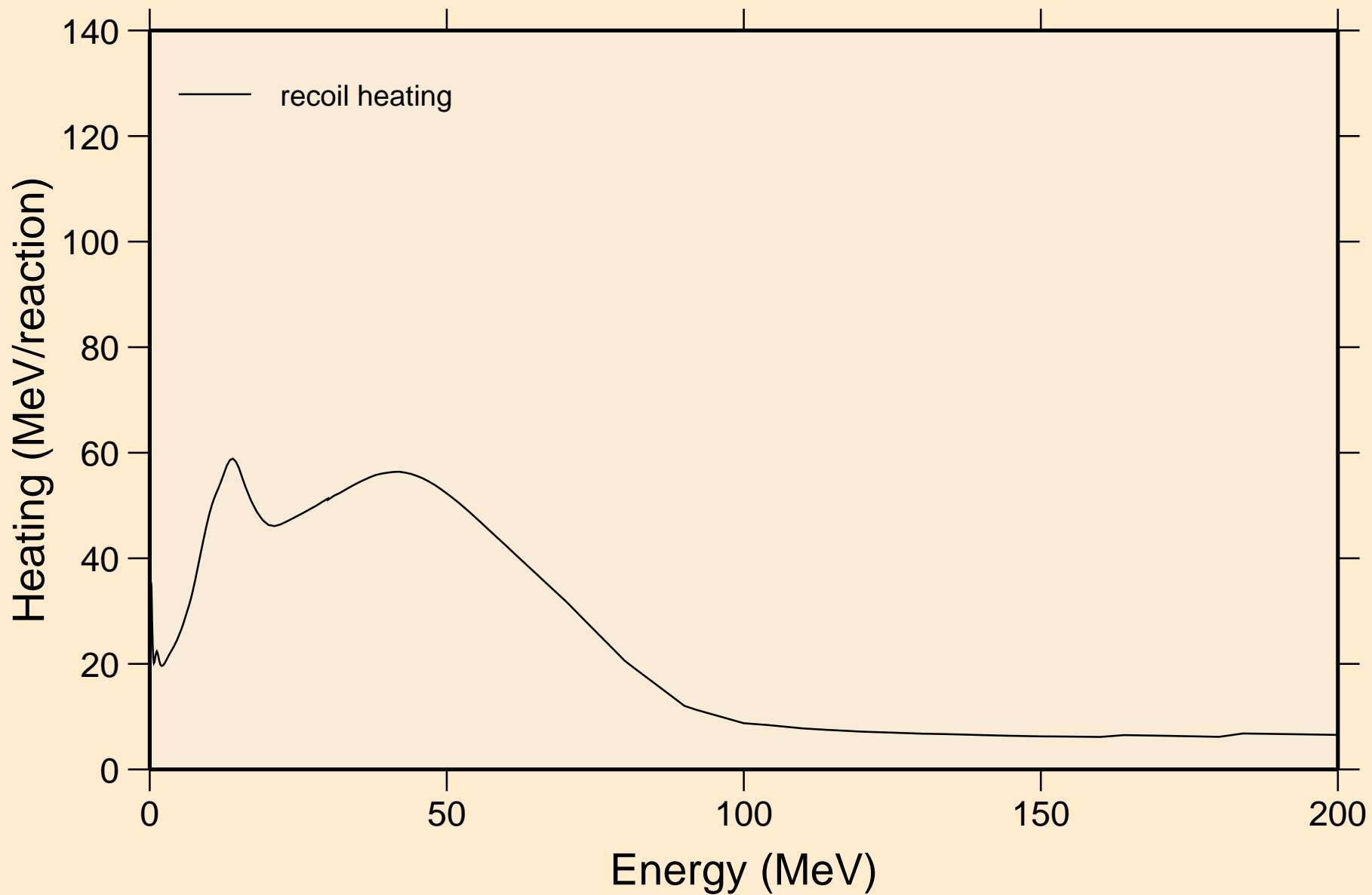


# NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

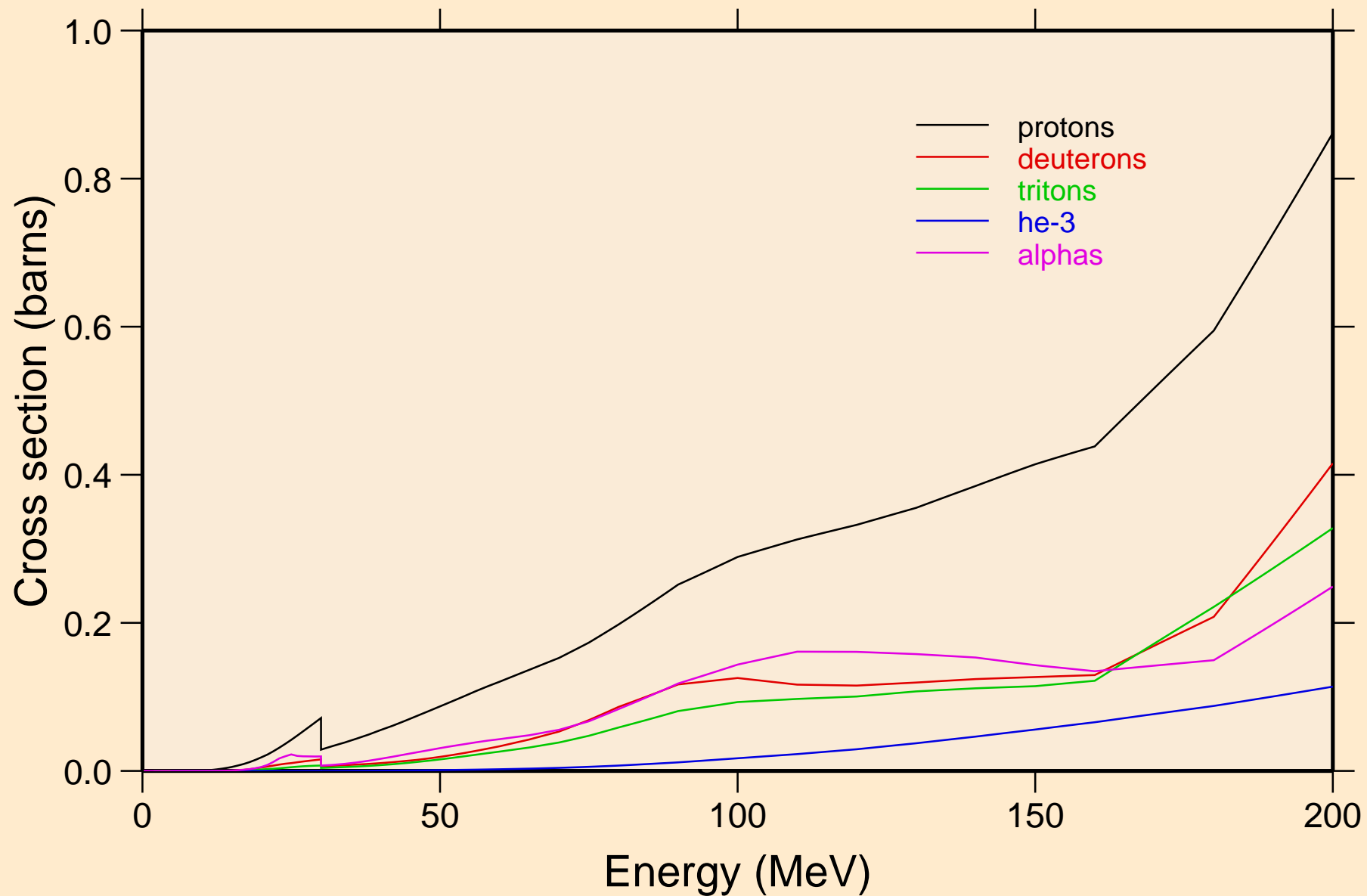
## Particle heating contributions



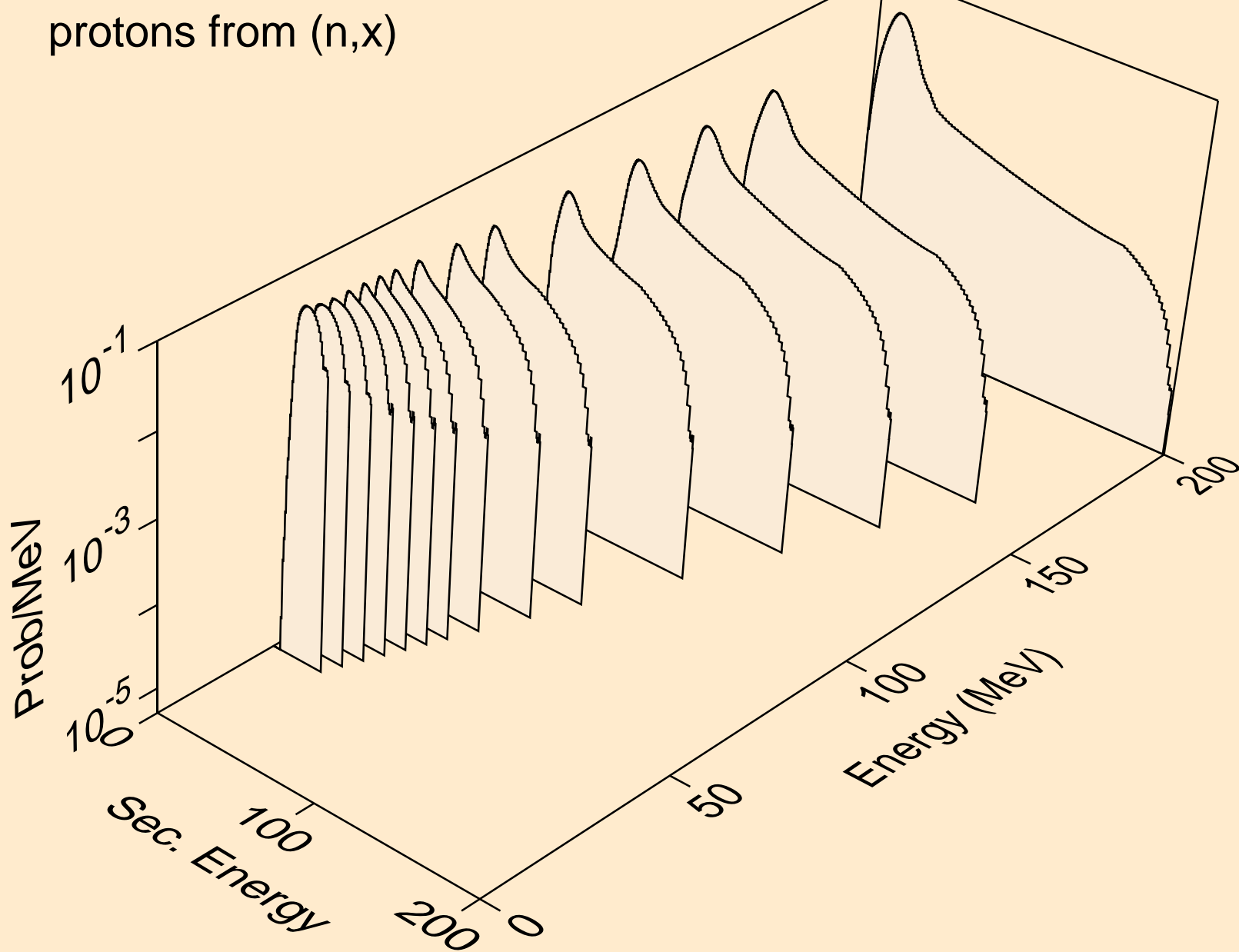
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



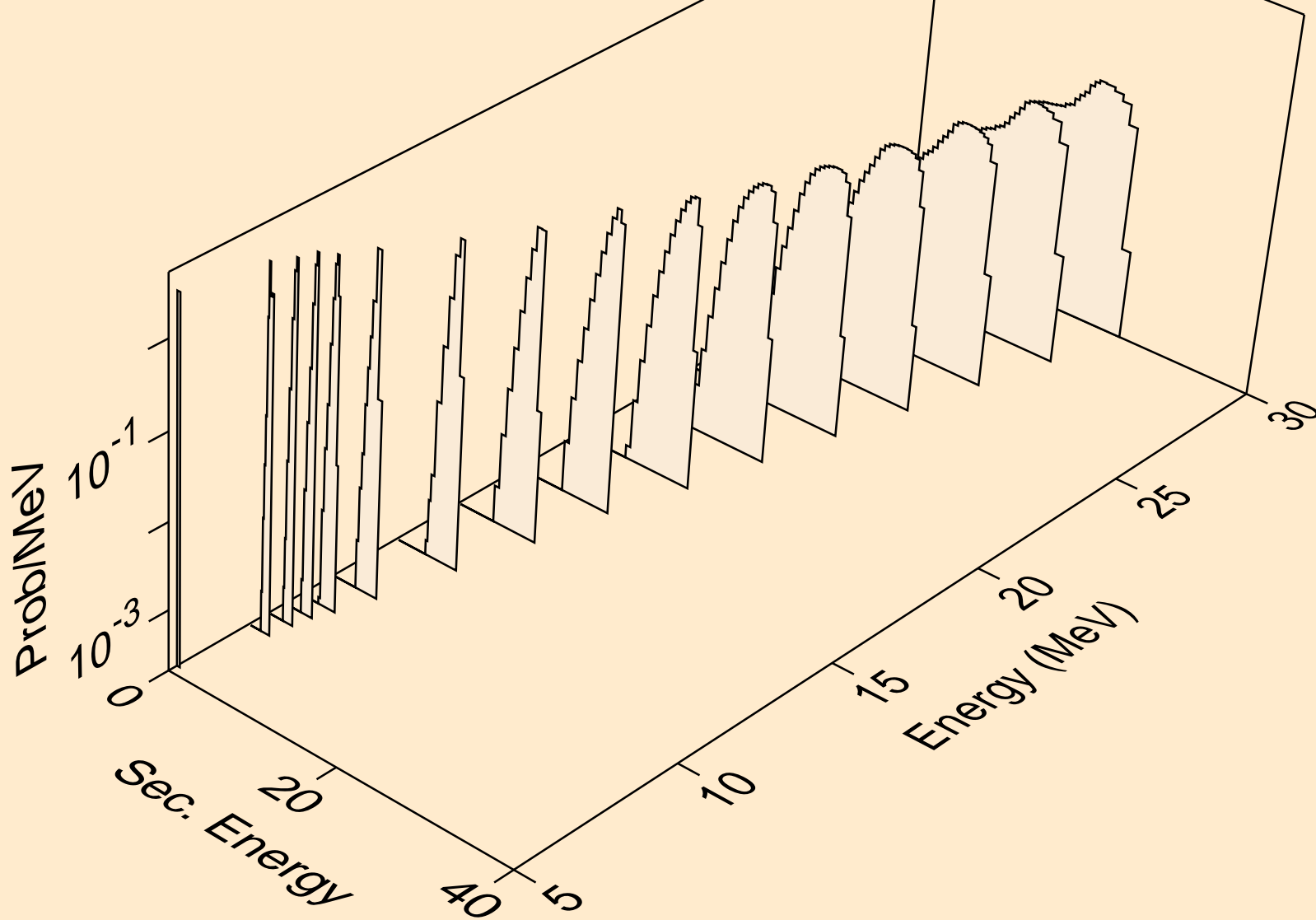
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



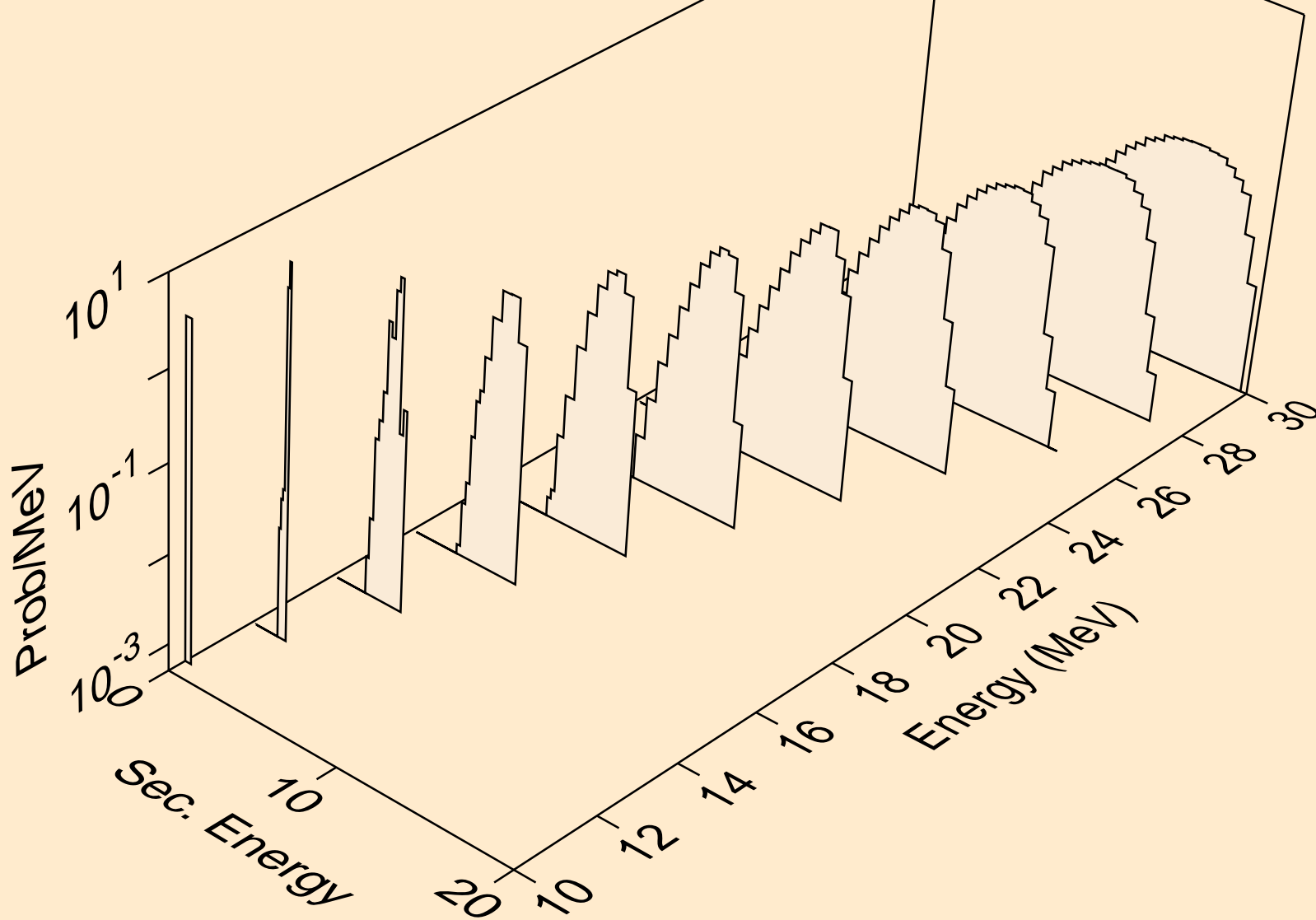
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



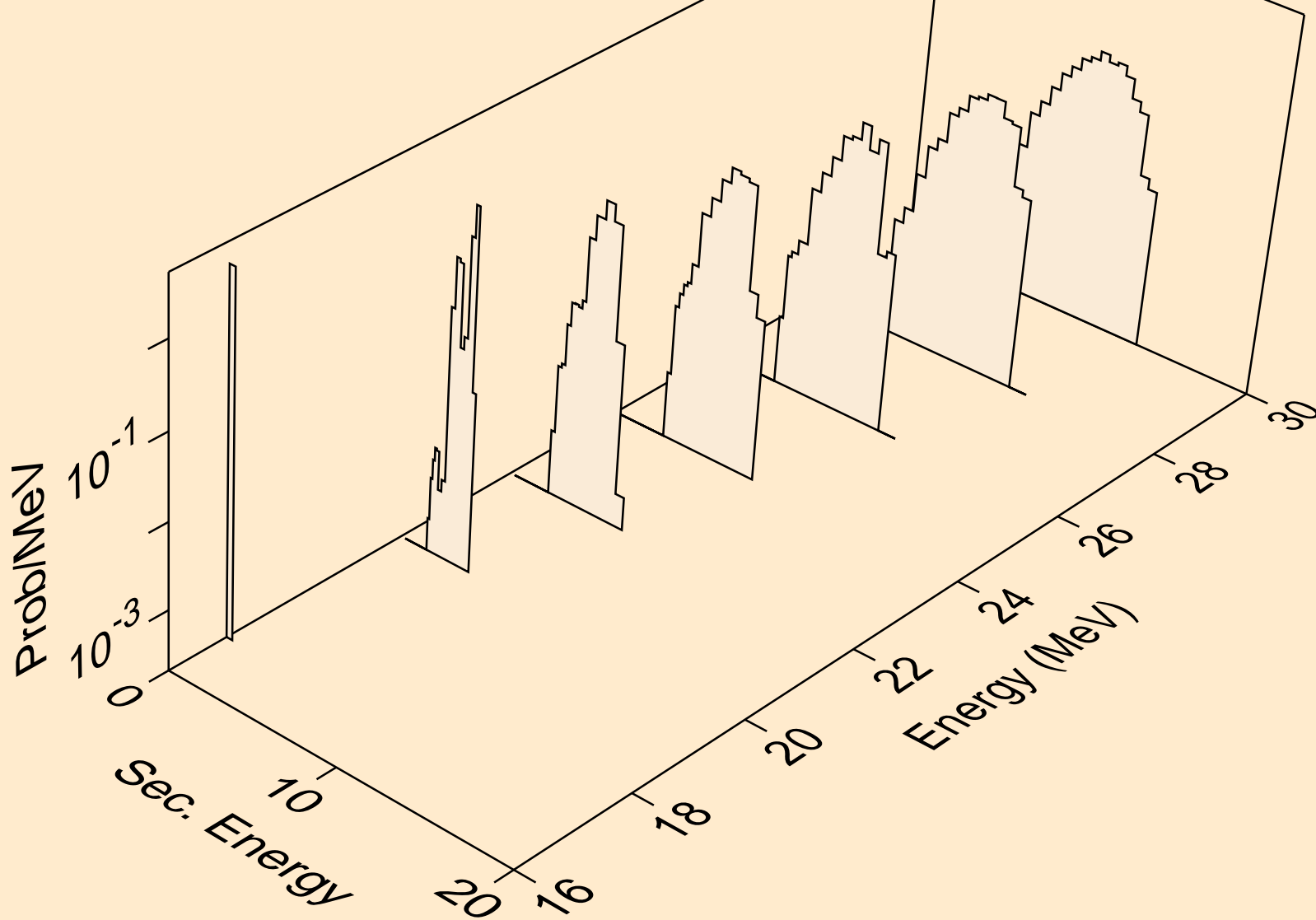
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



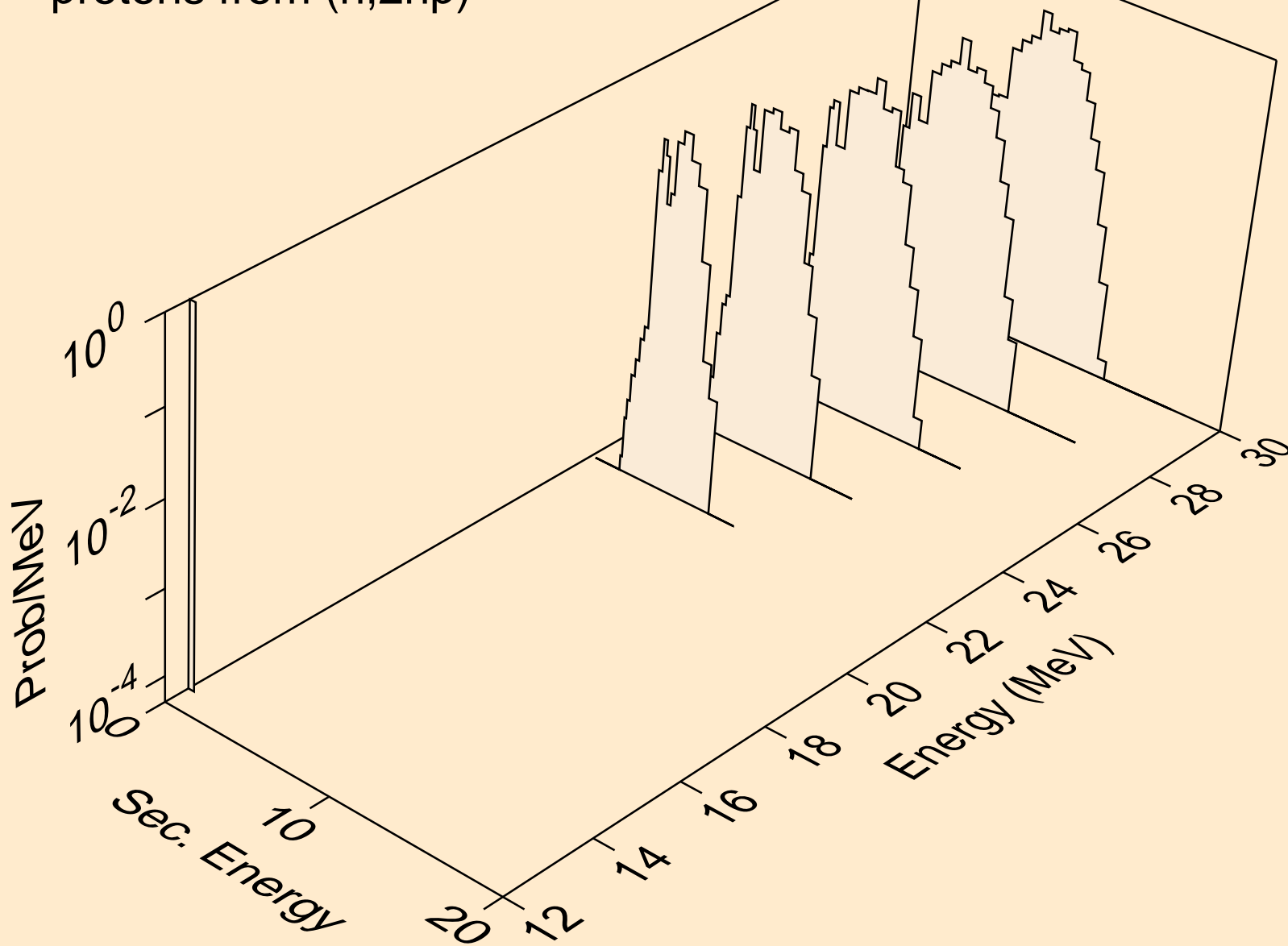
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)

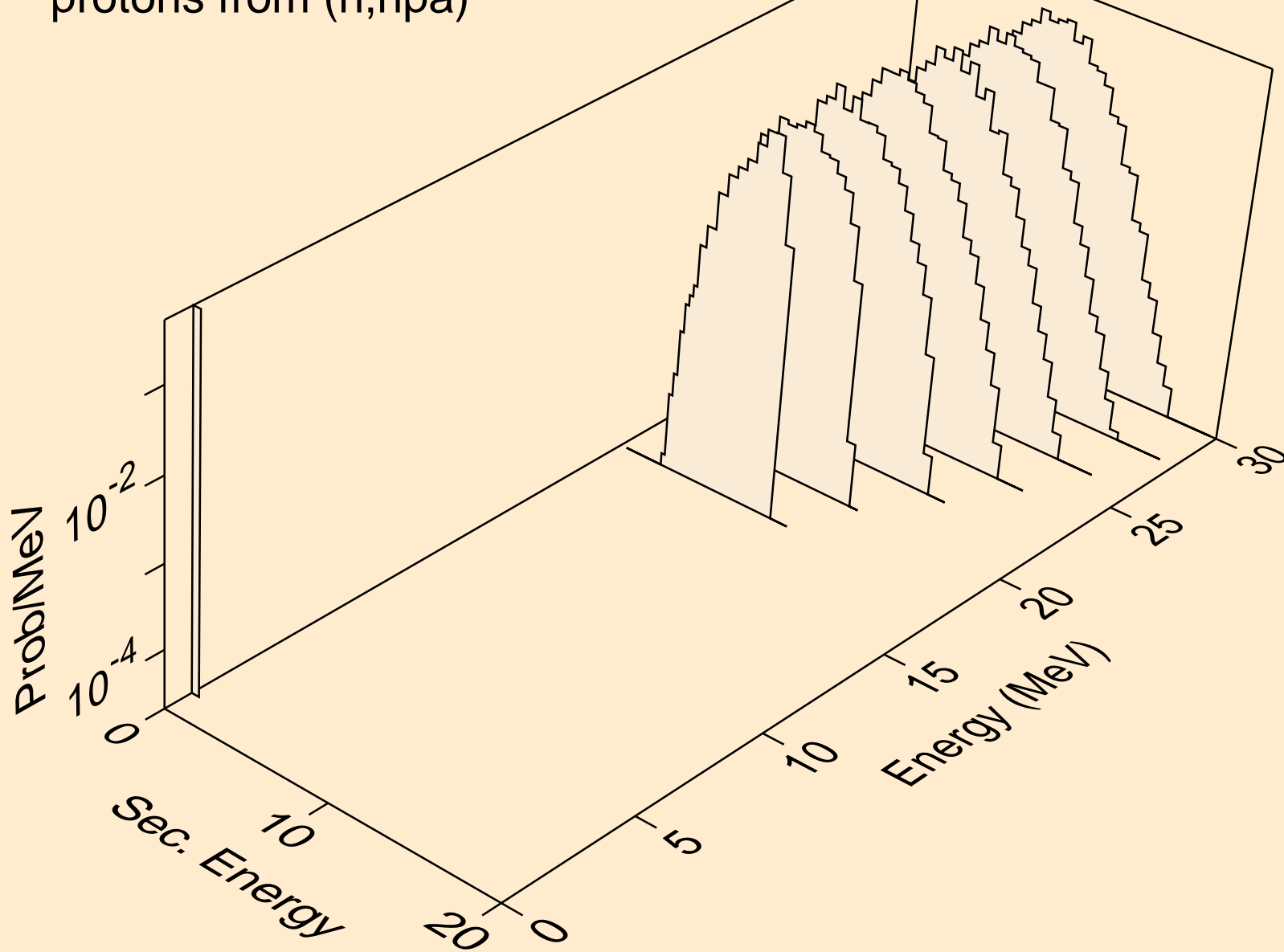


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)

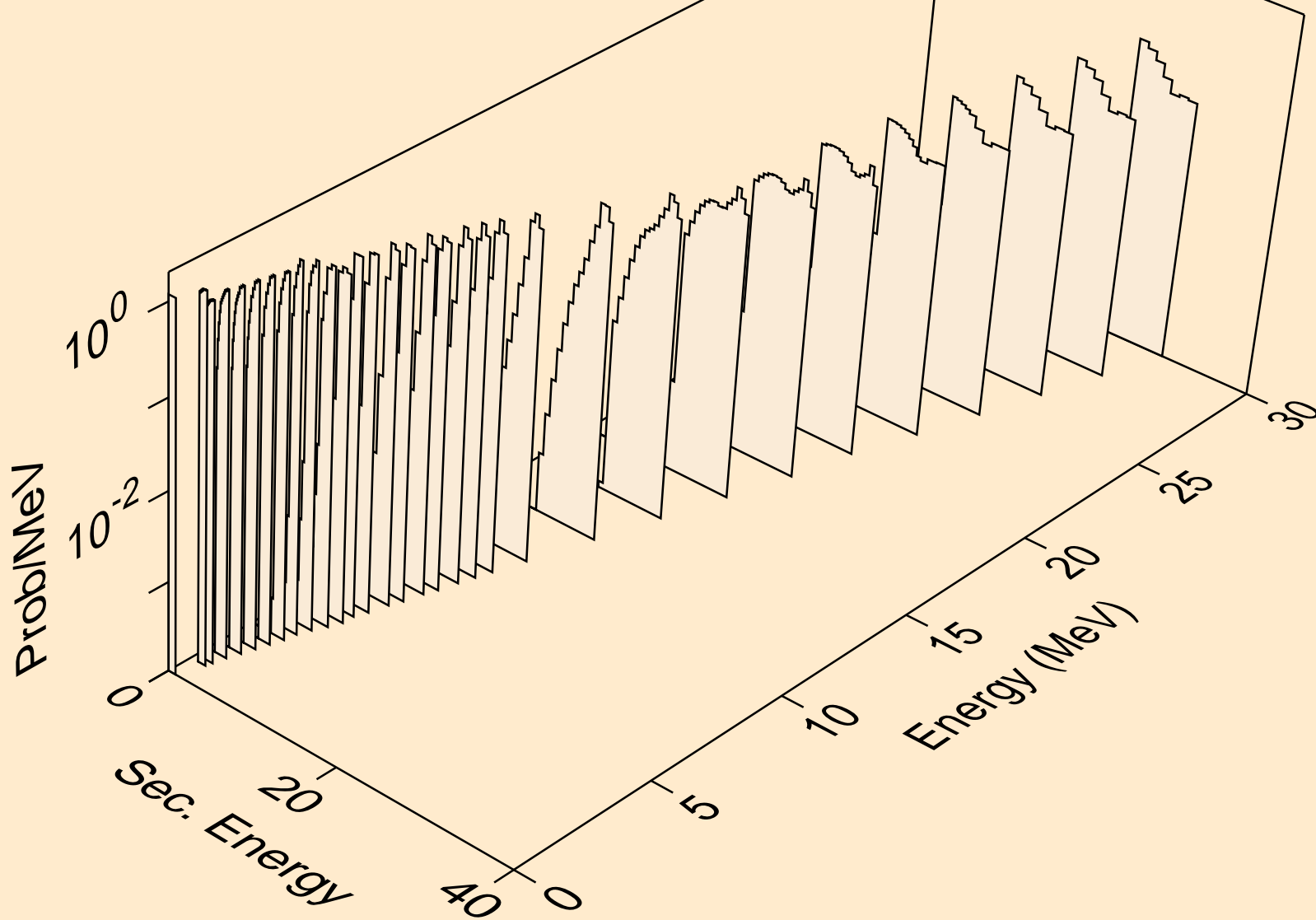




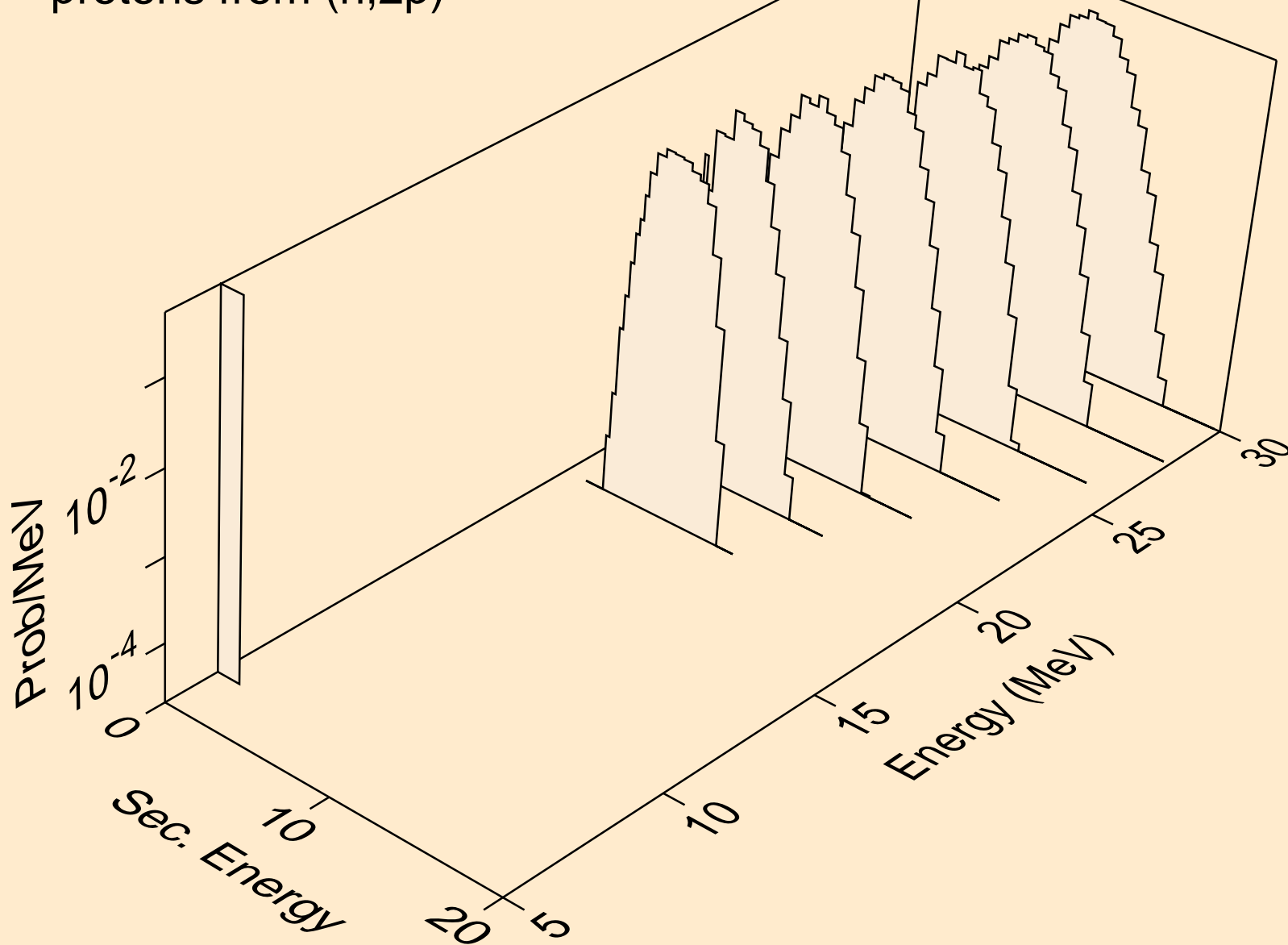
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protons from (n,npa)



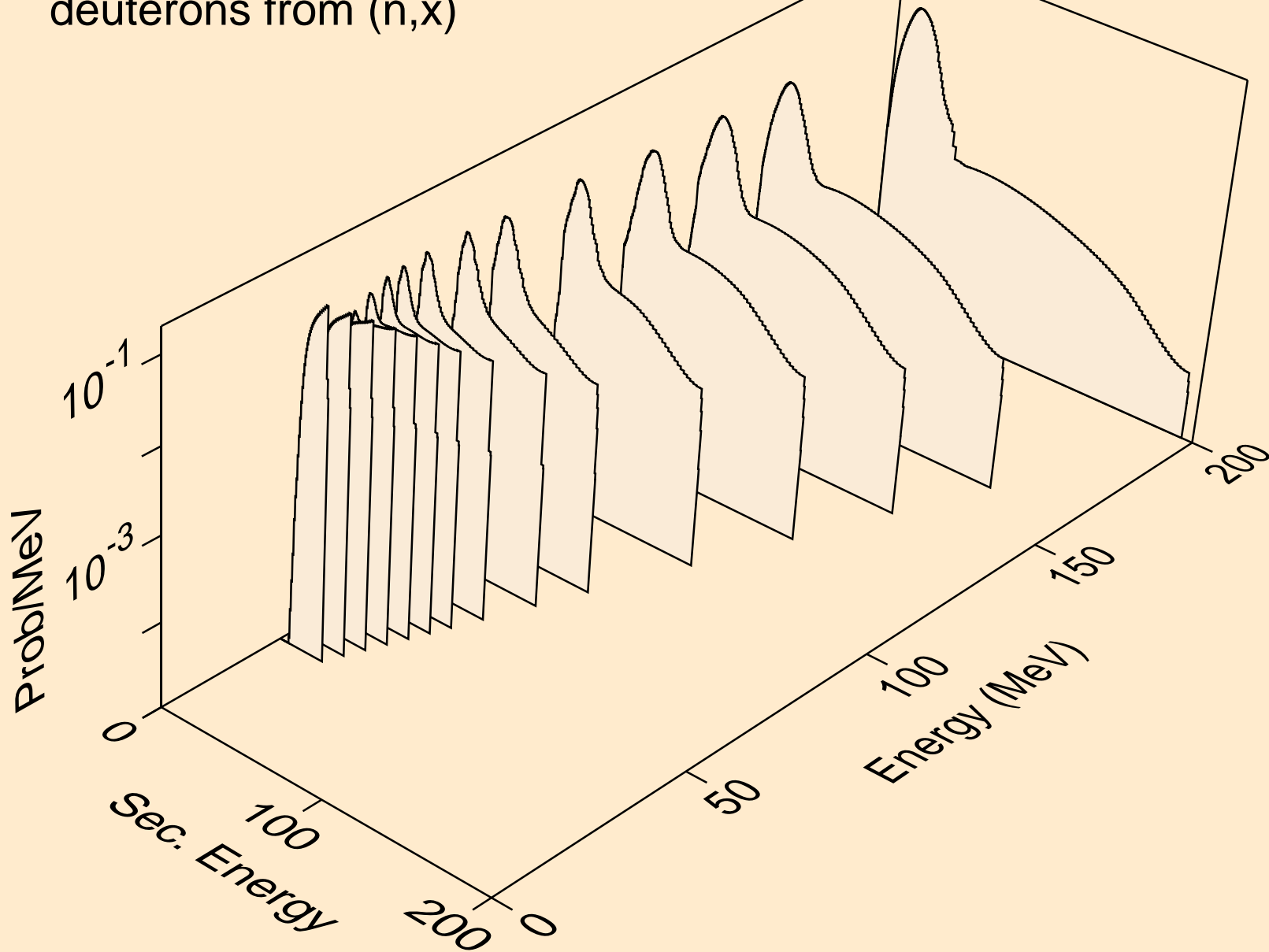
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protons from (n,p)



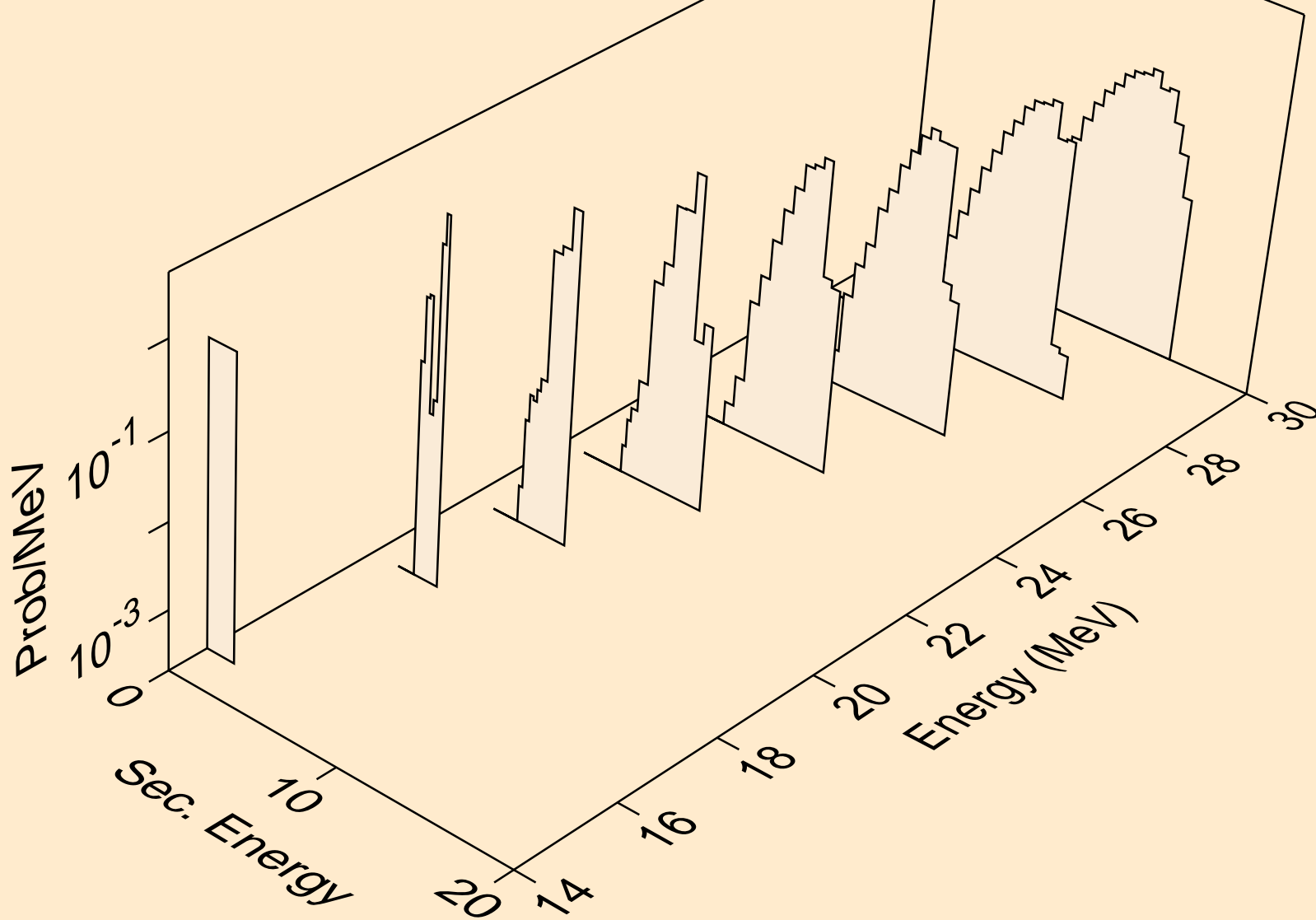
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protons from (n,2p)



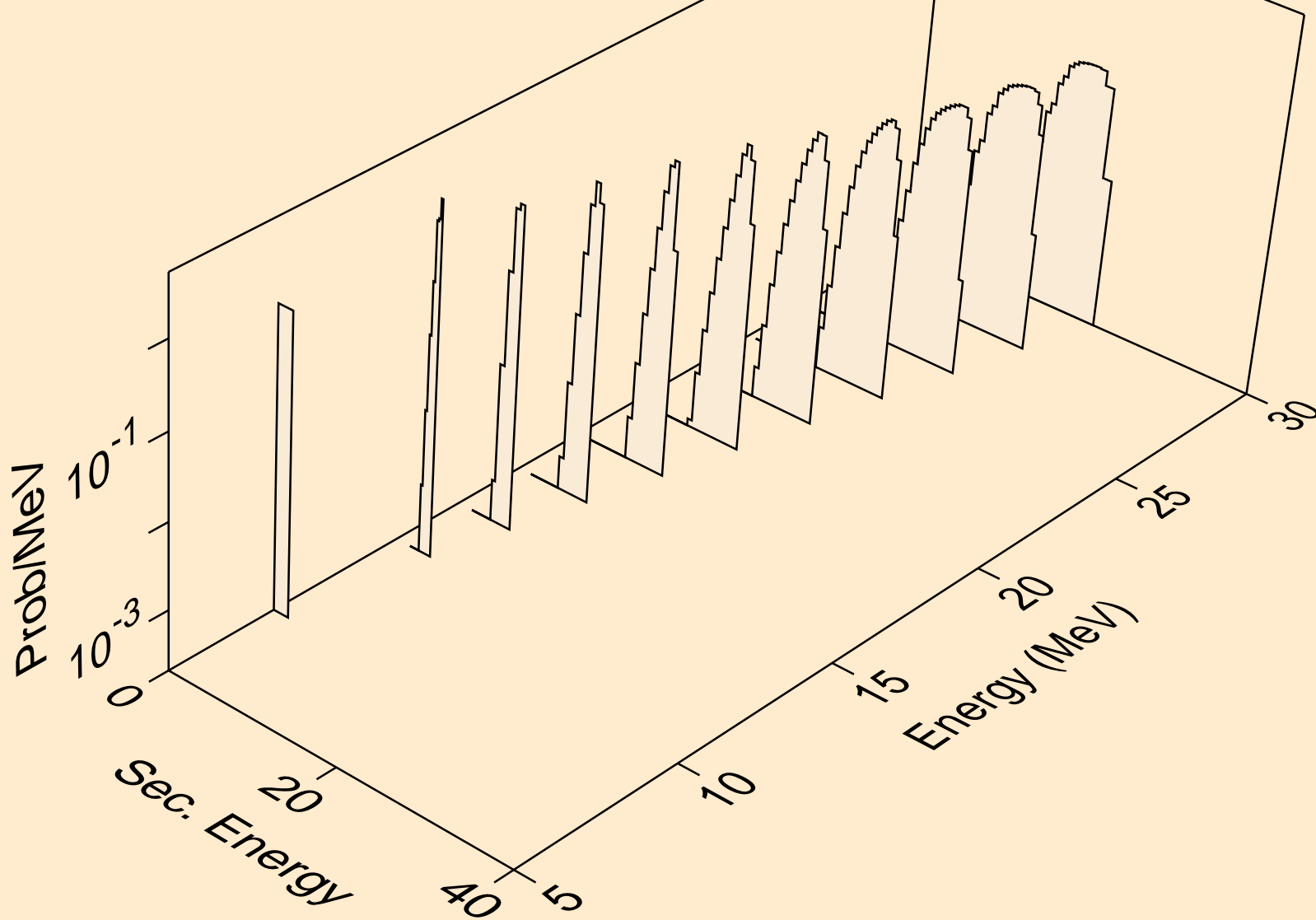
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)



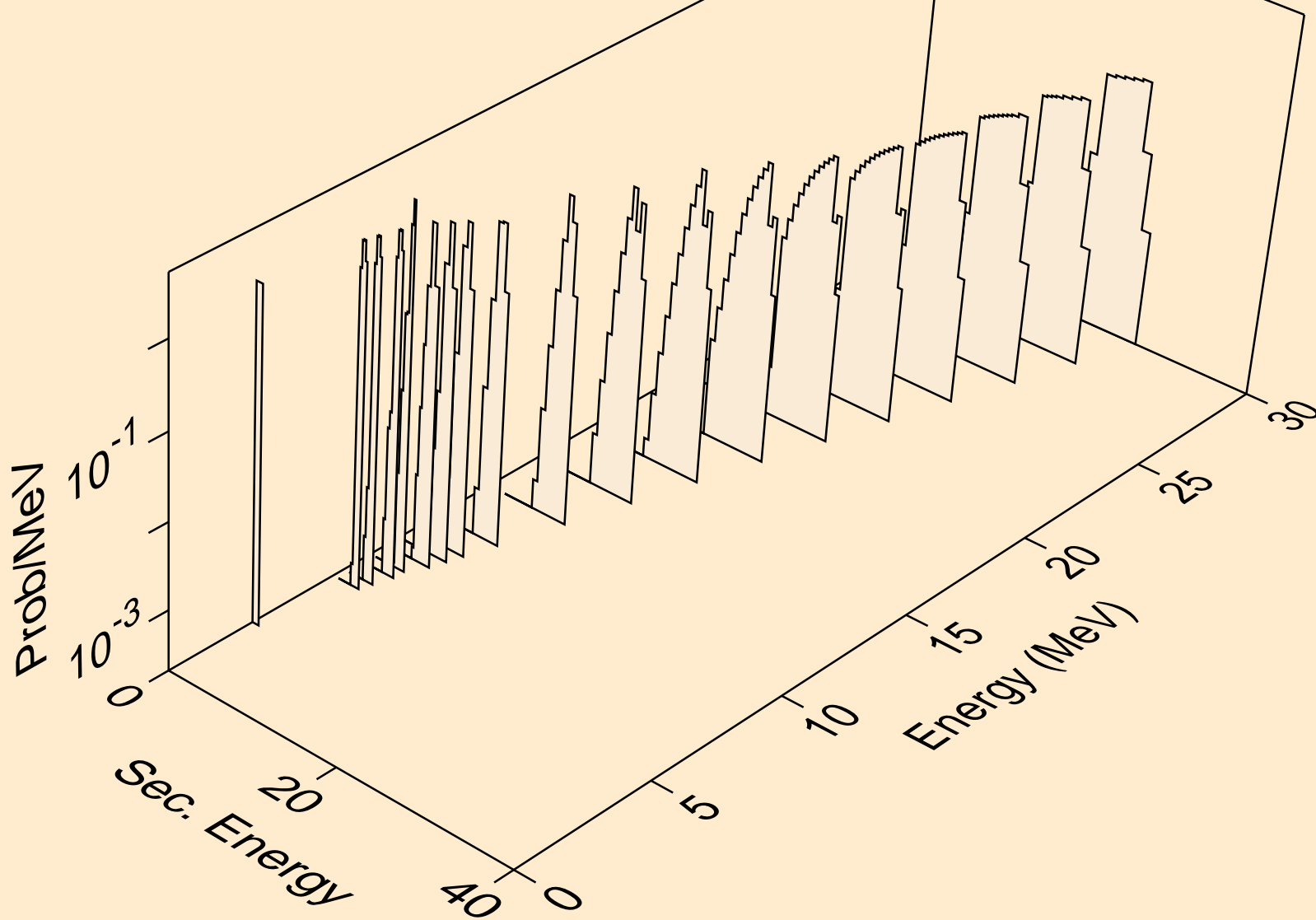
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deuterons from (n,2nd)



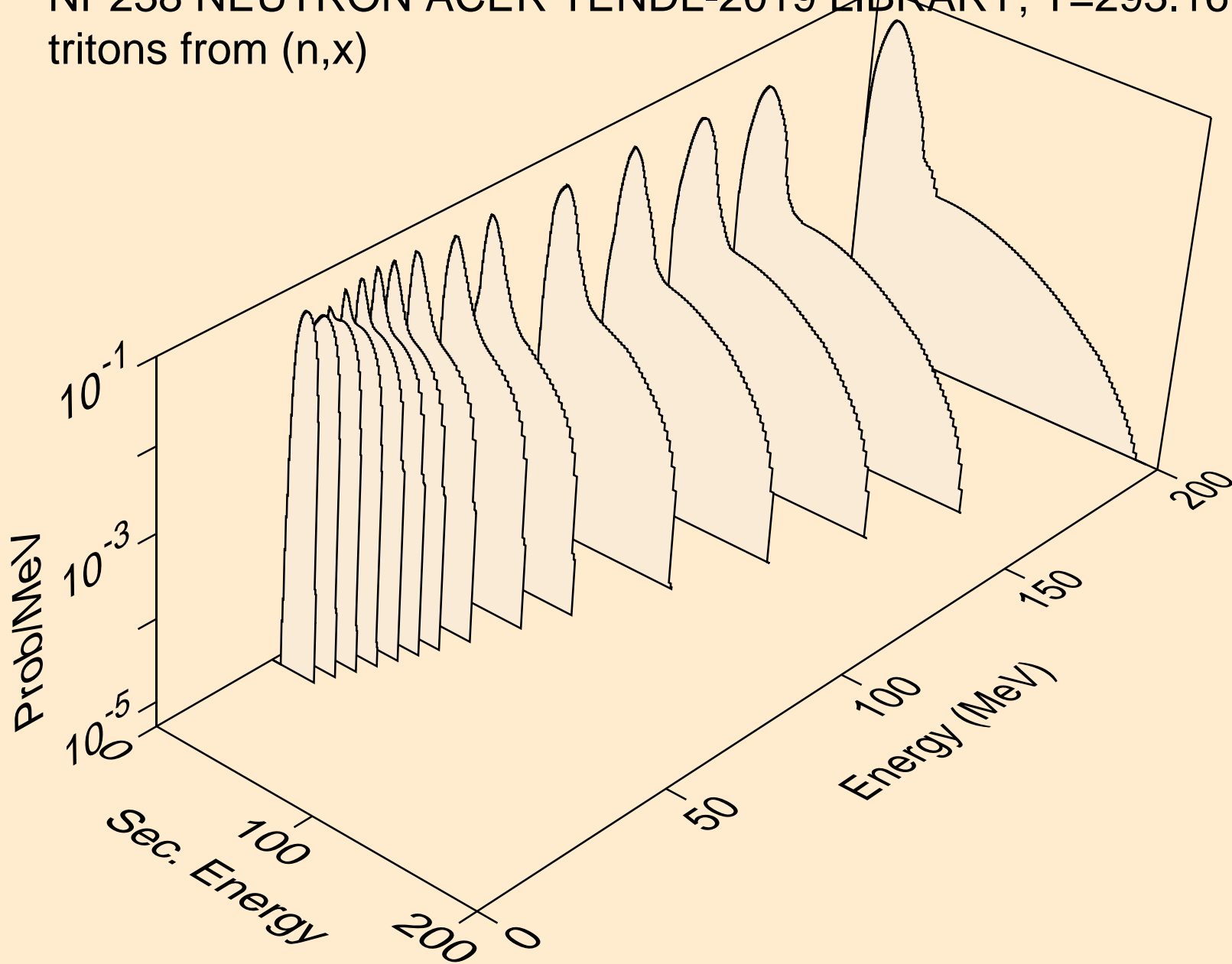
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

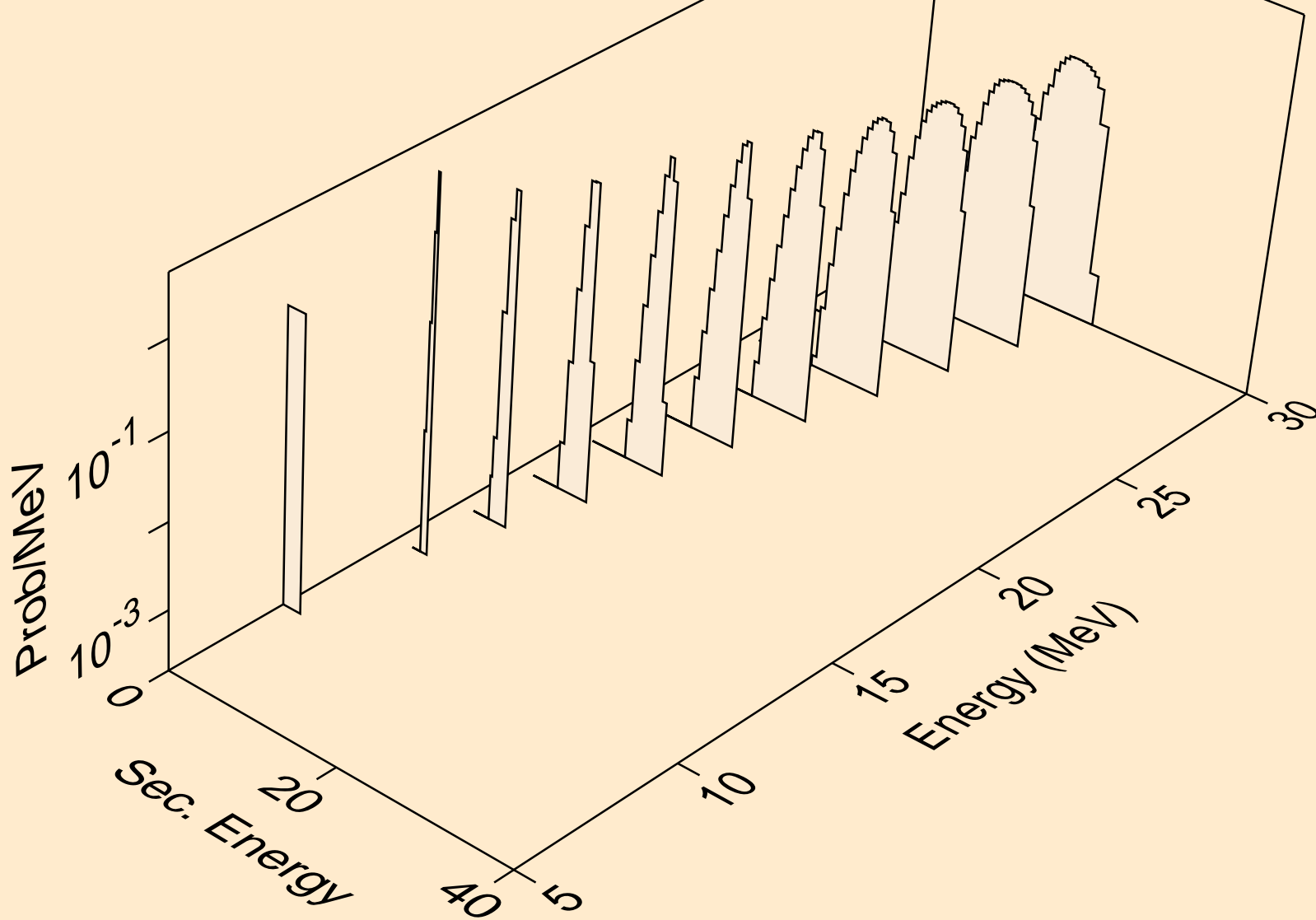


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)

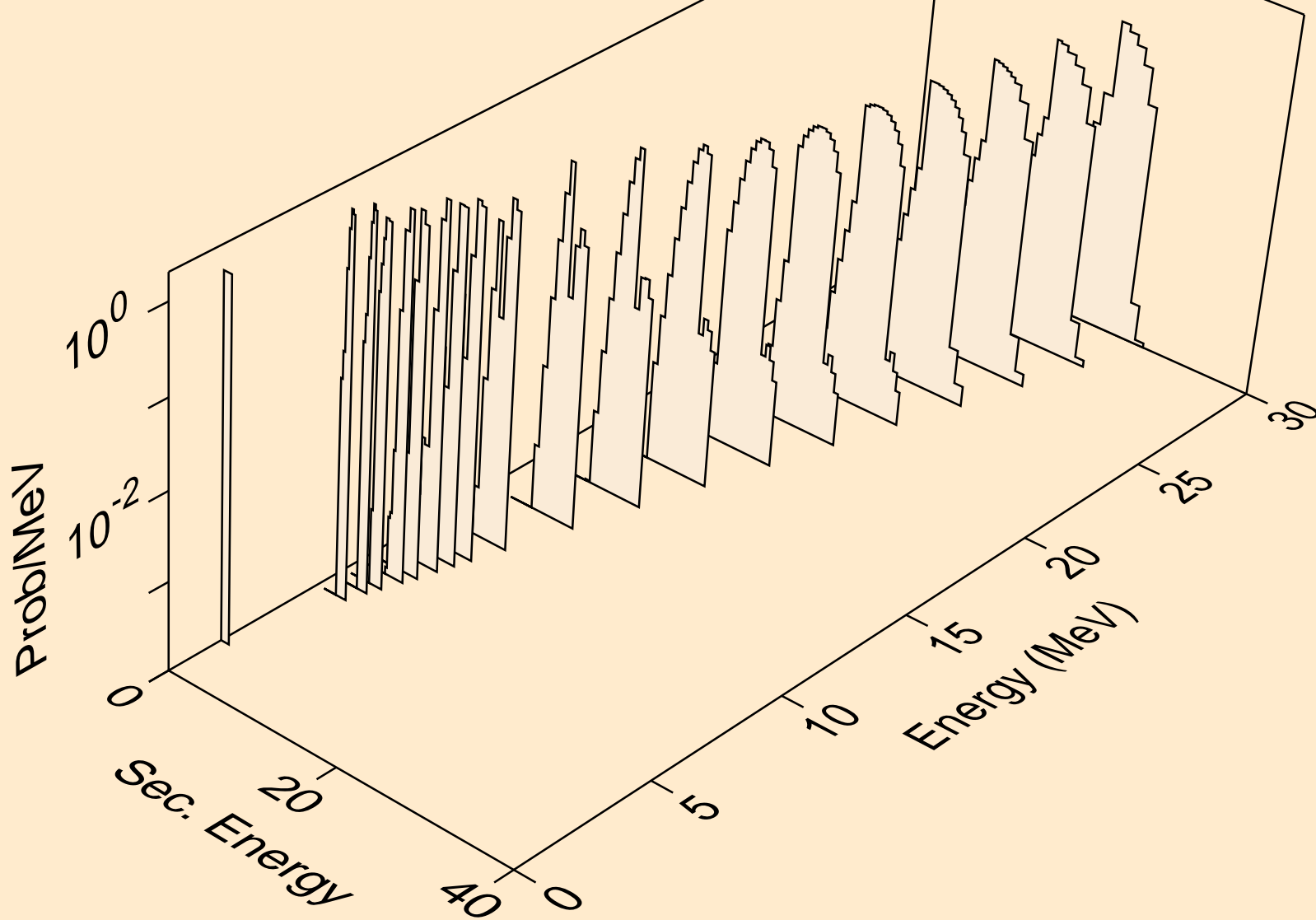




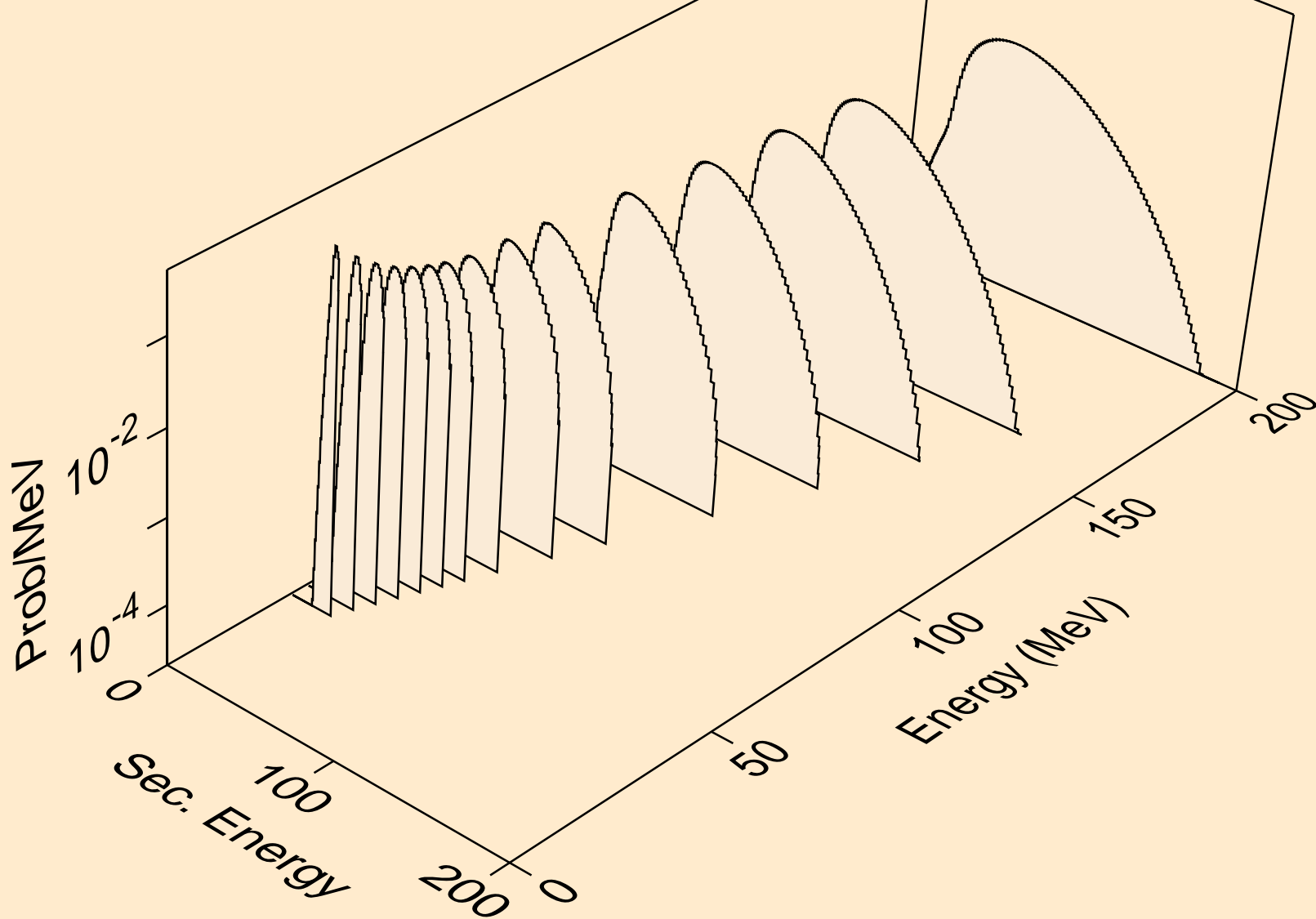
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



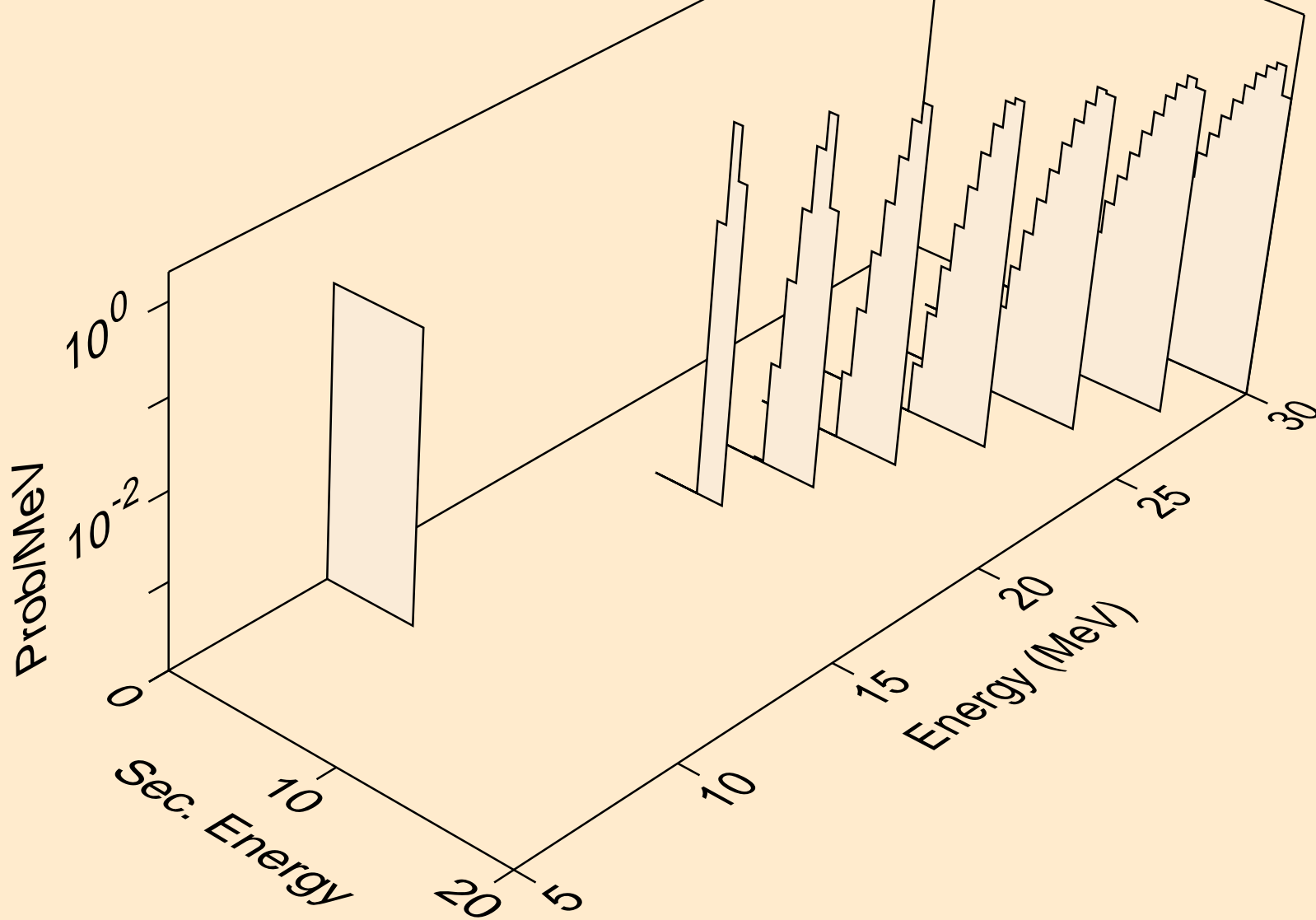
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tritons from (n,t)



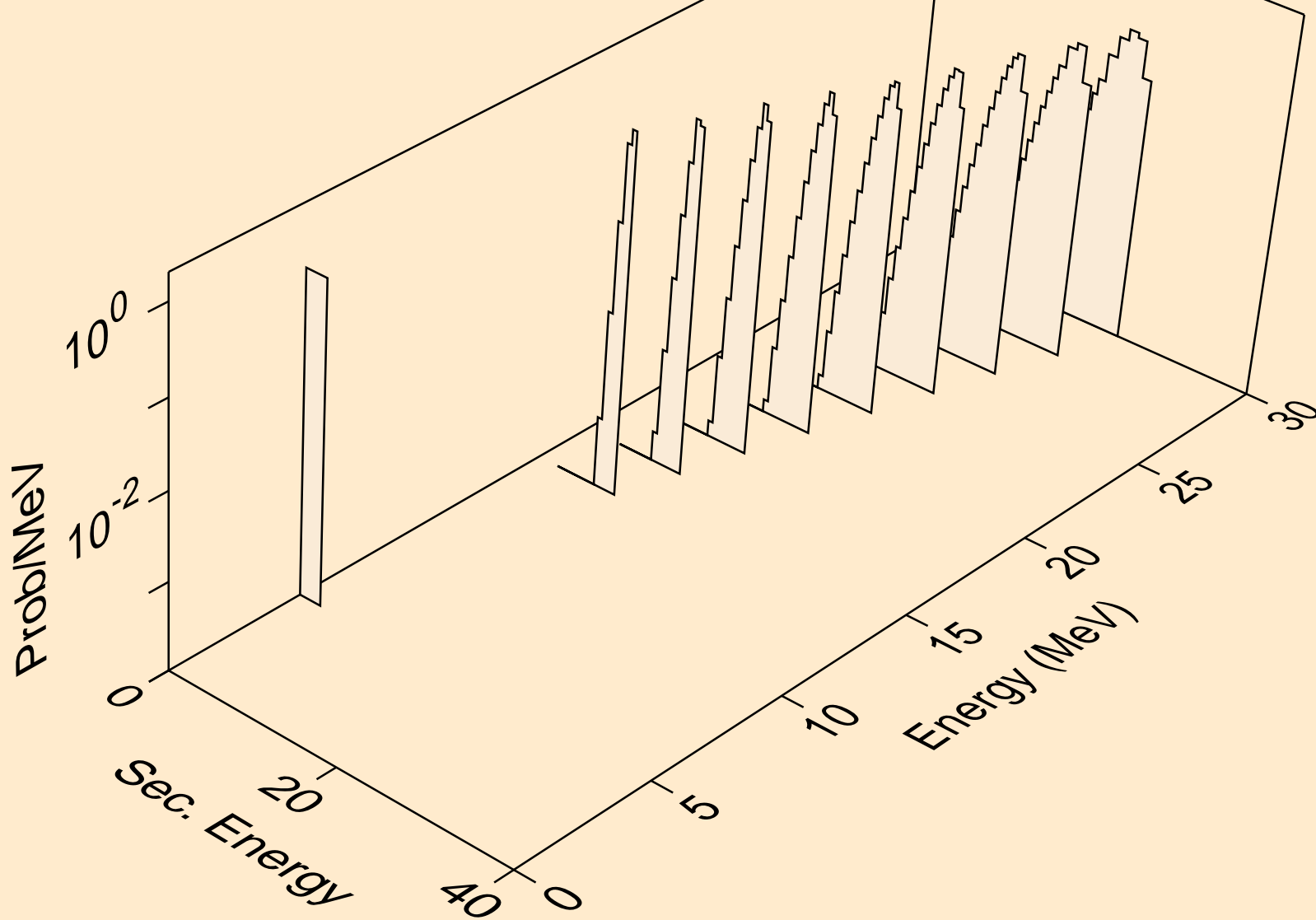
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



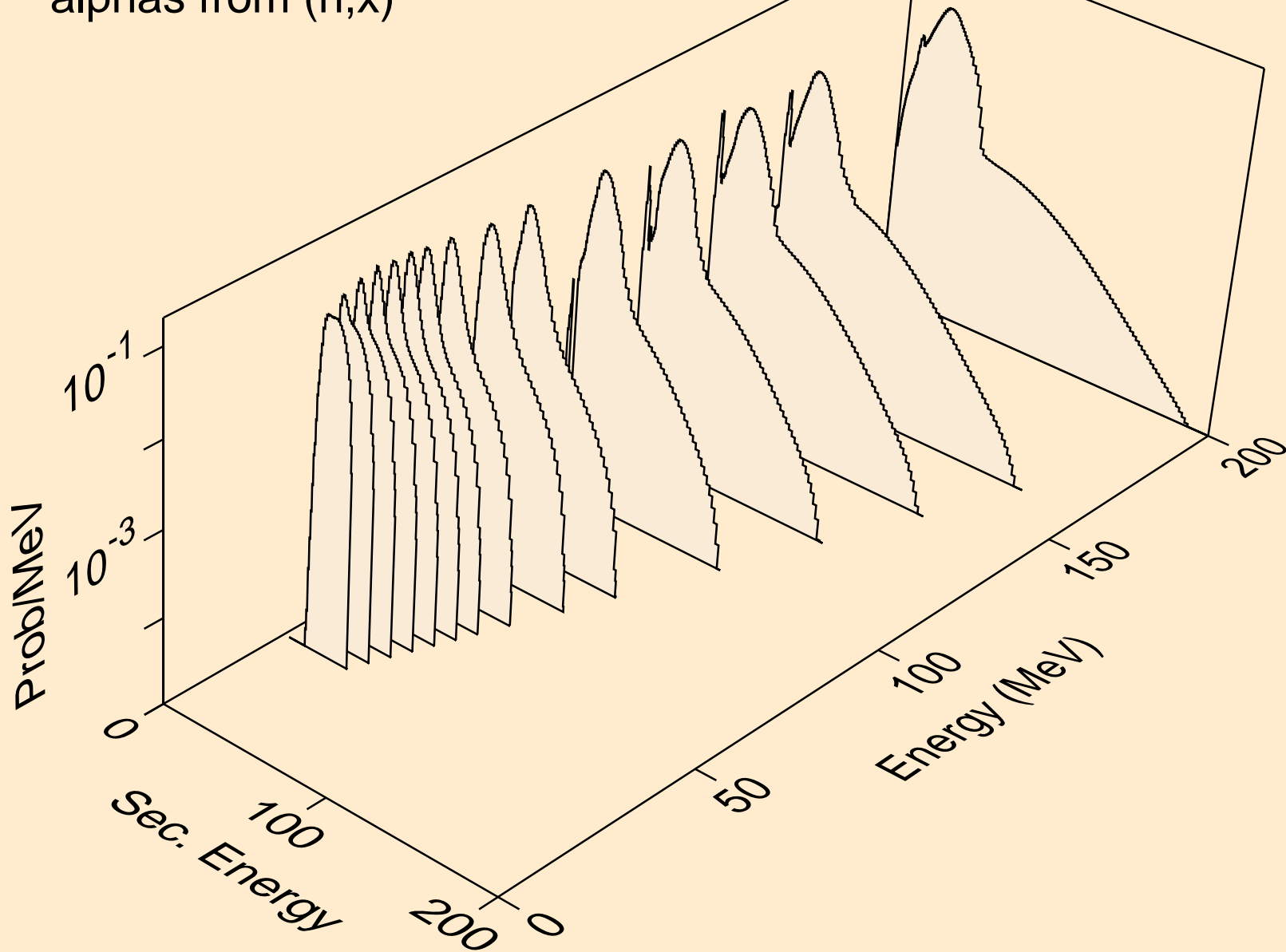
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



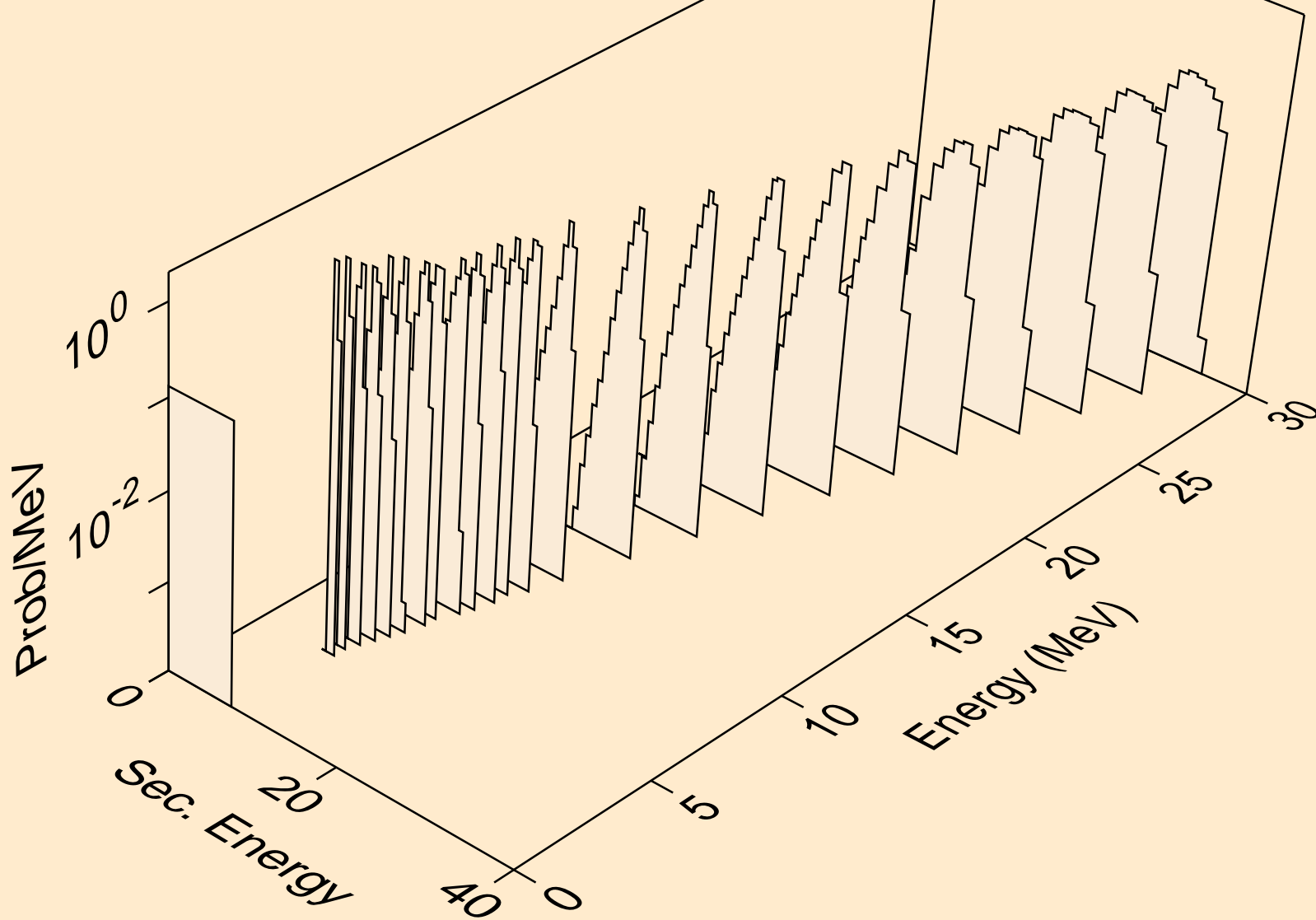
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he3s from (n,he3)



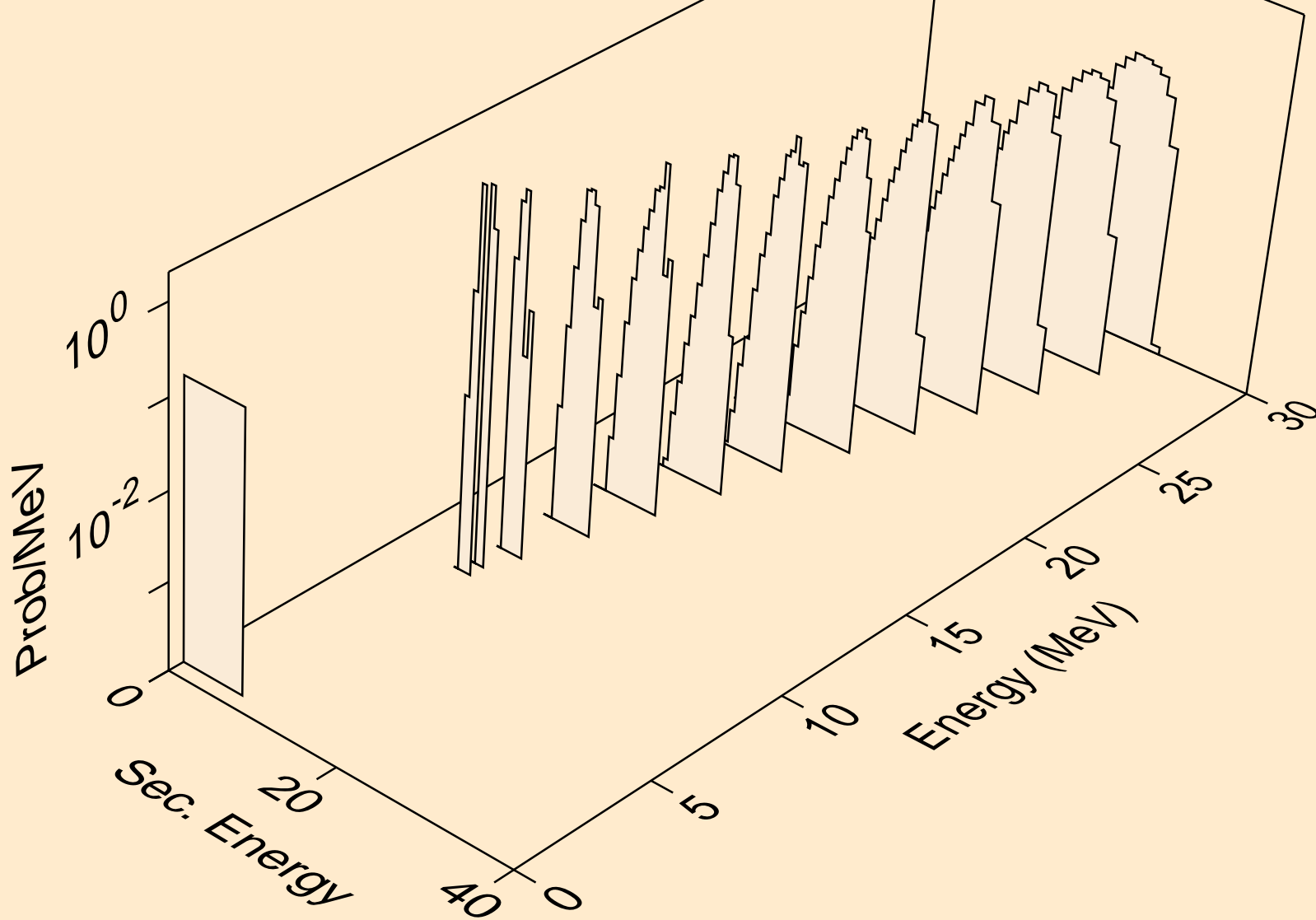
NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

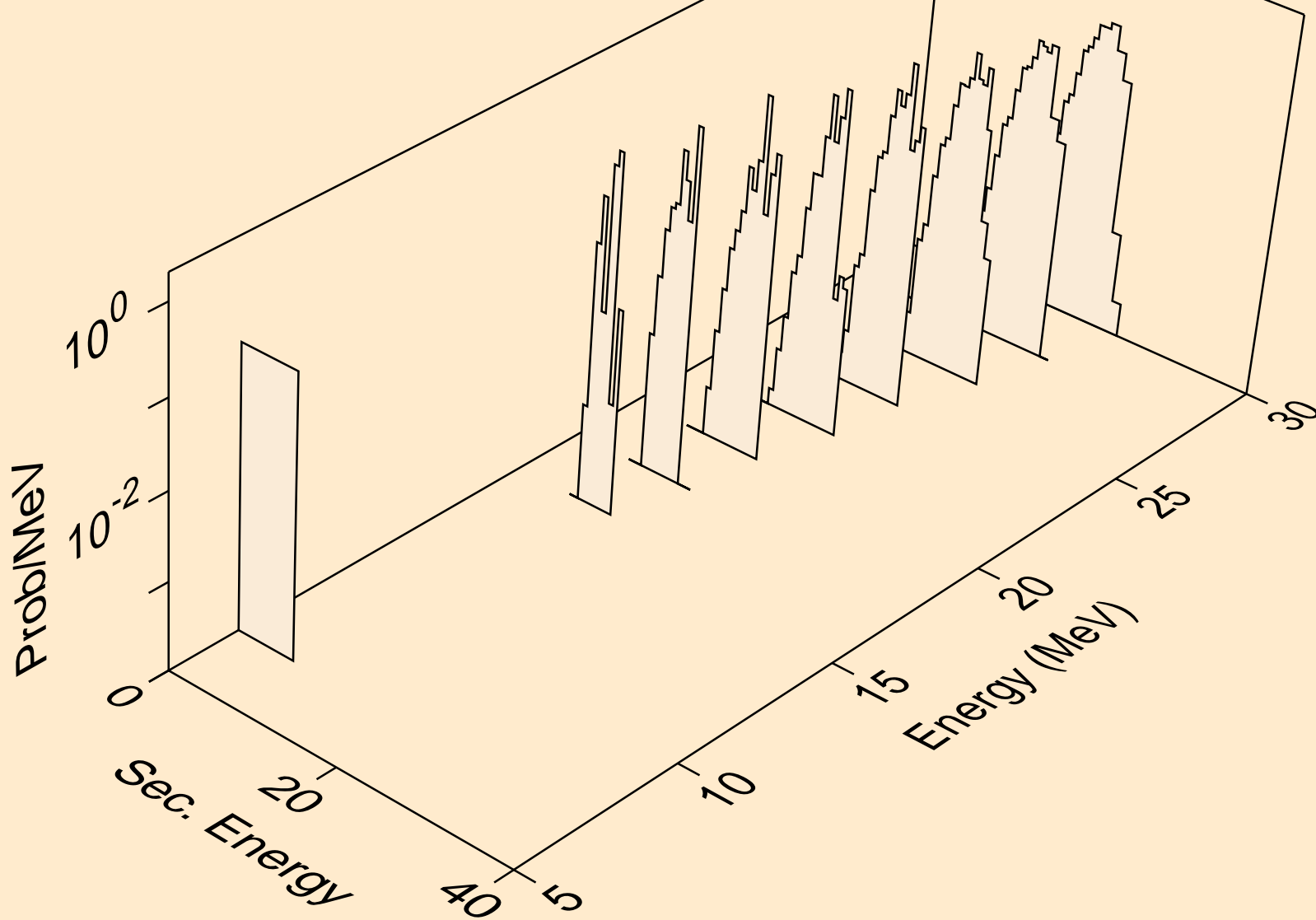


NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a

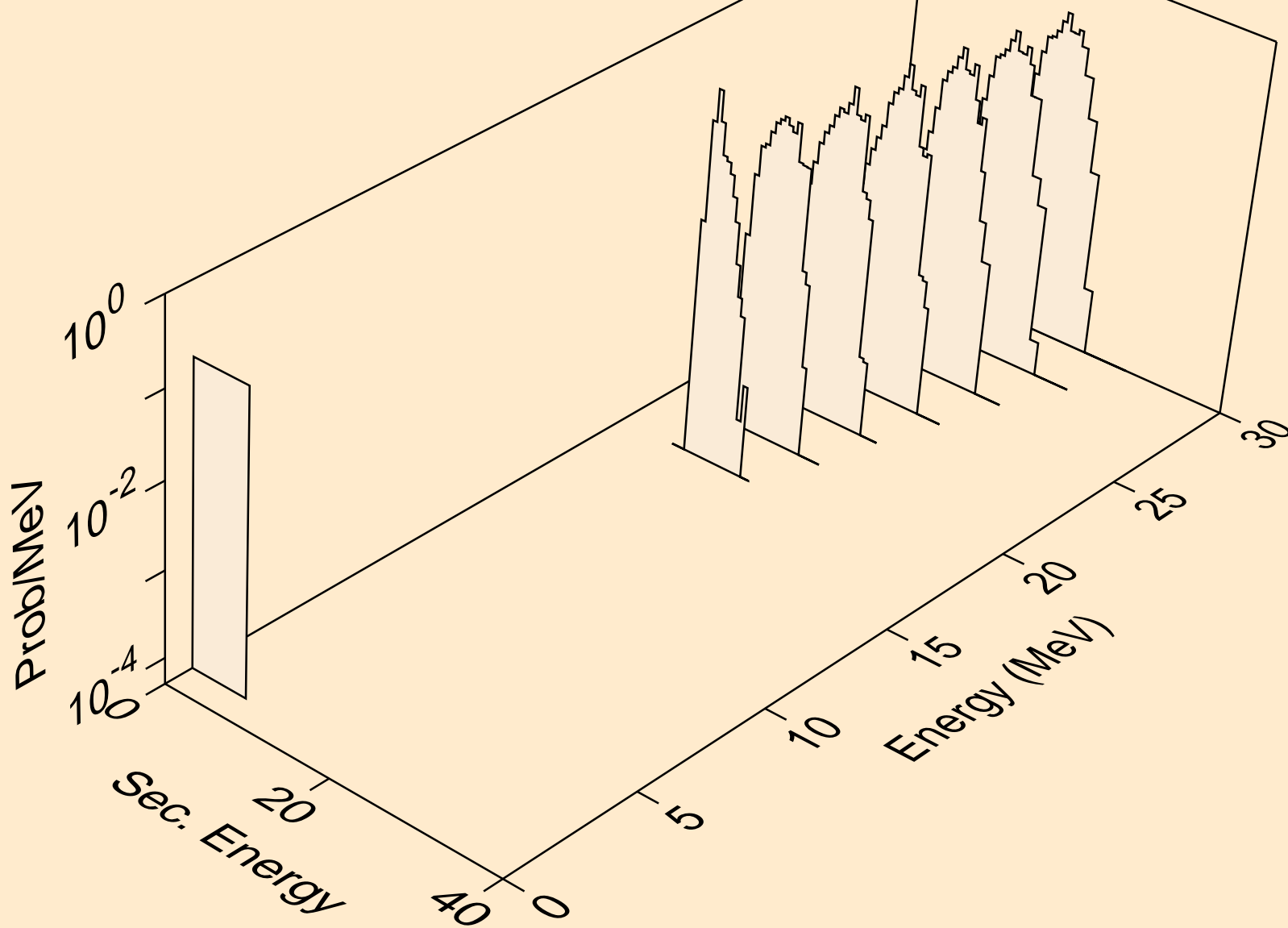




NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



NP238 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

