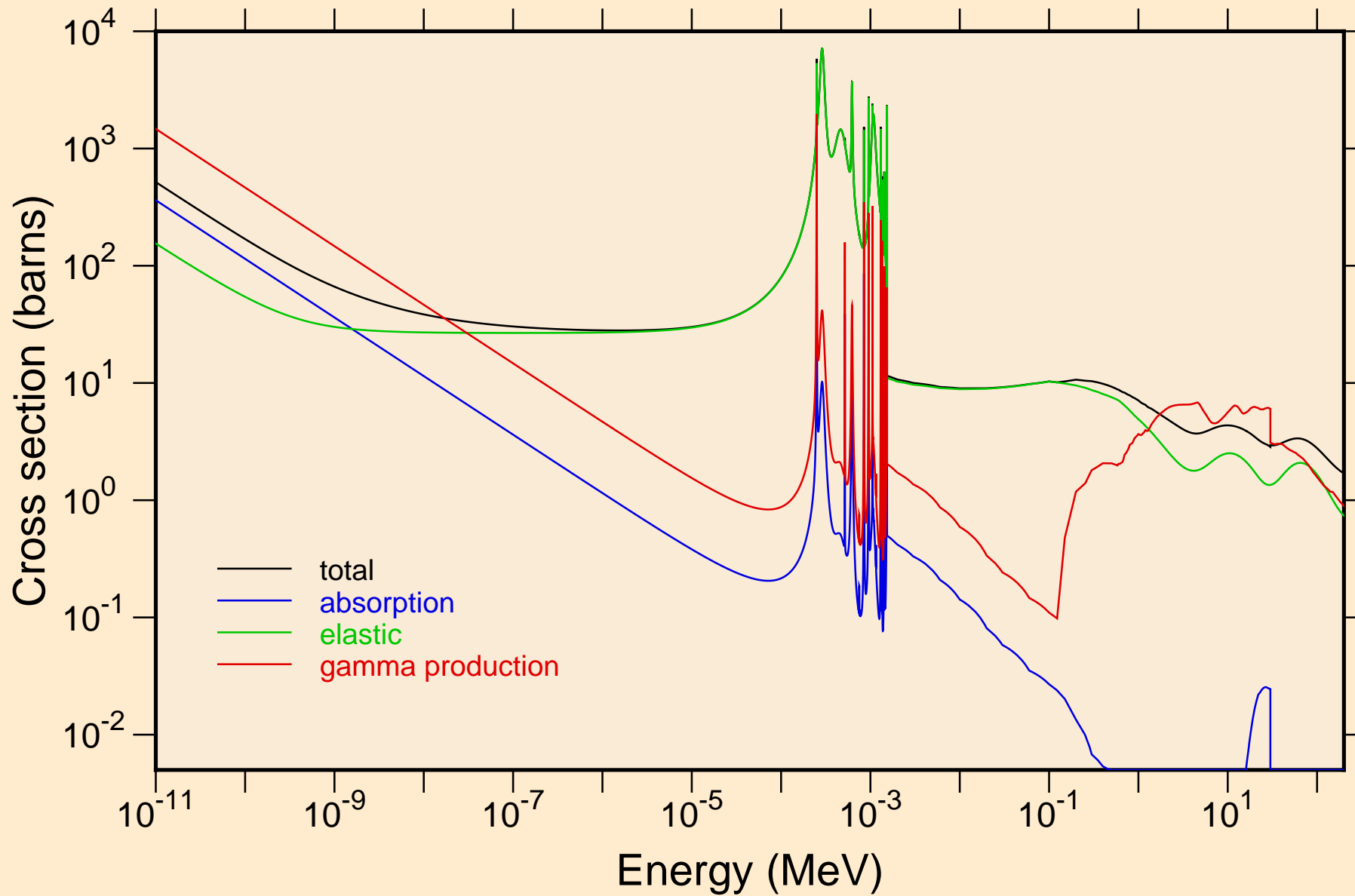
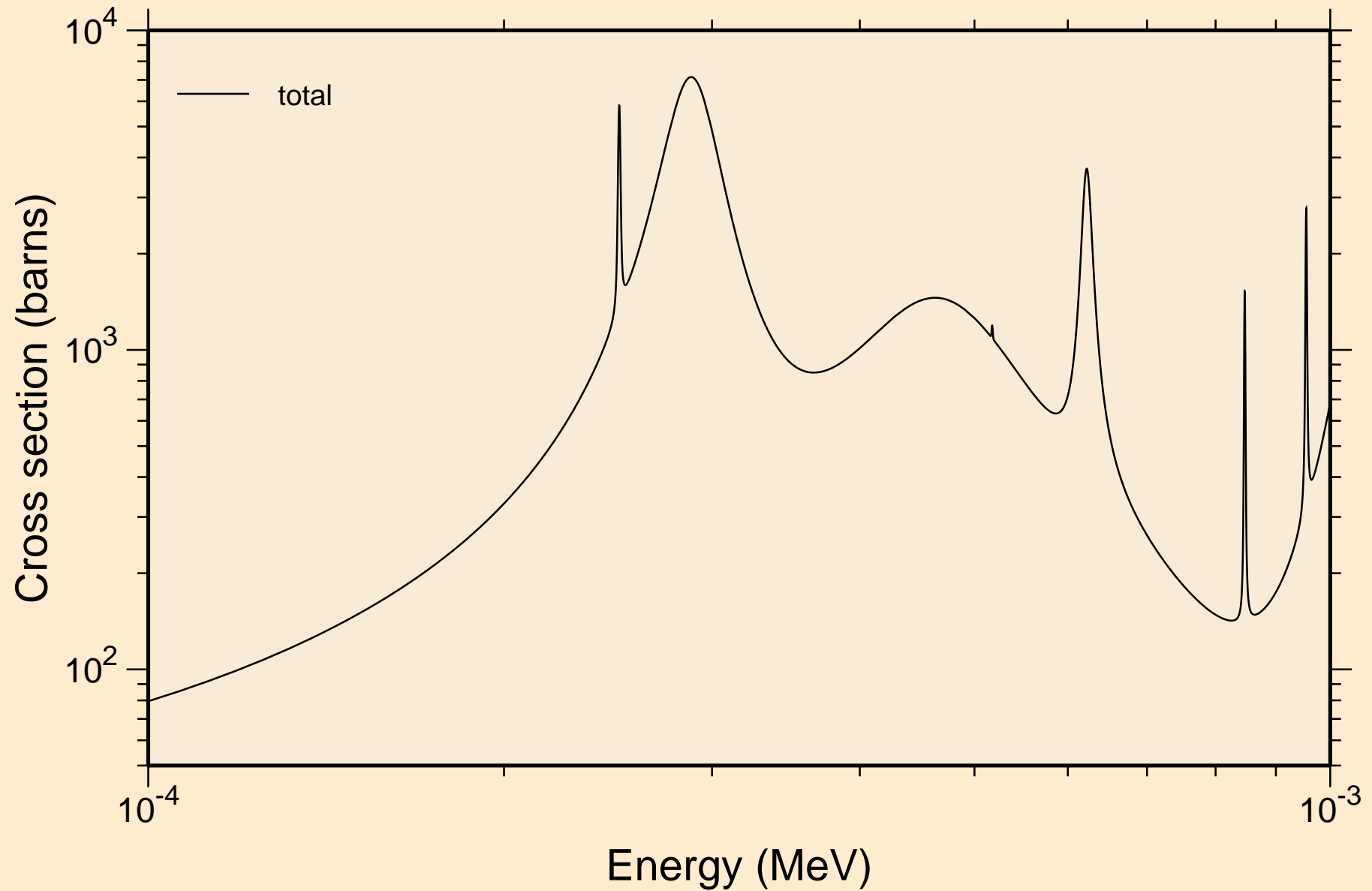


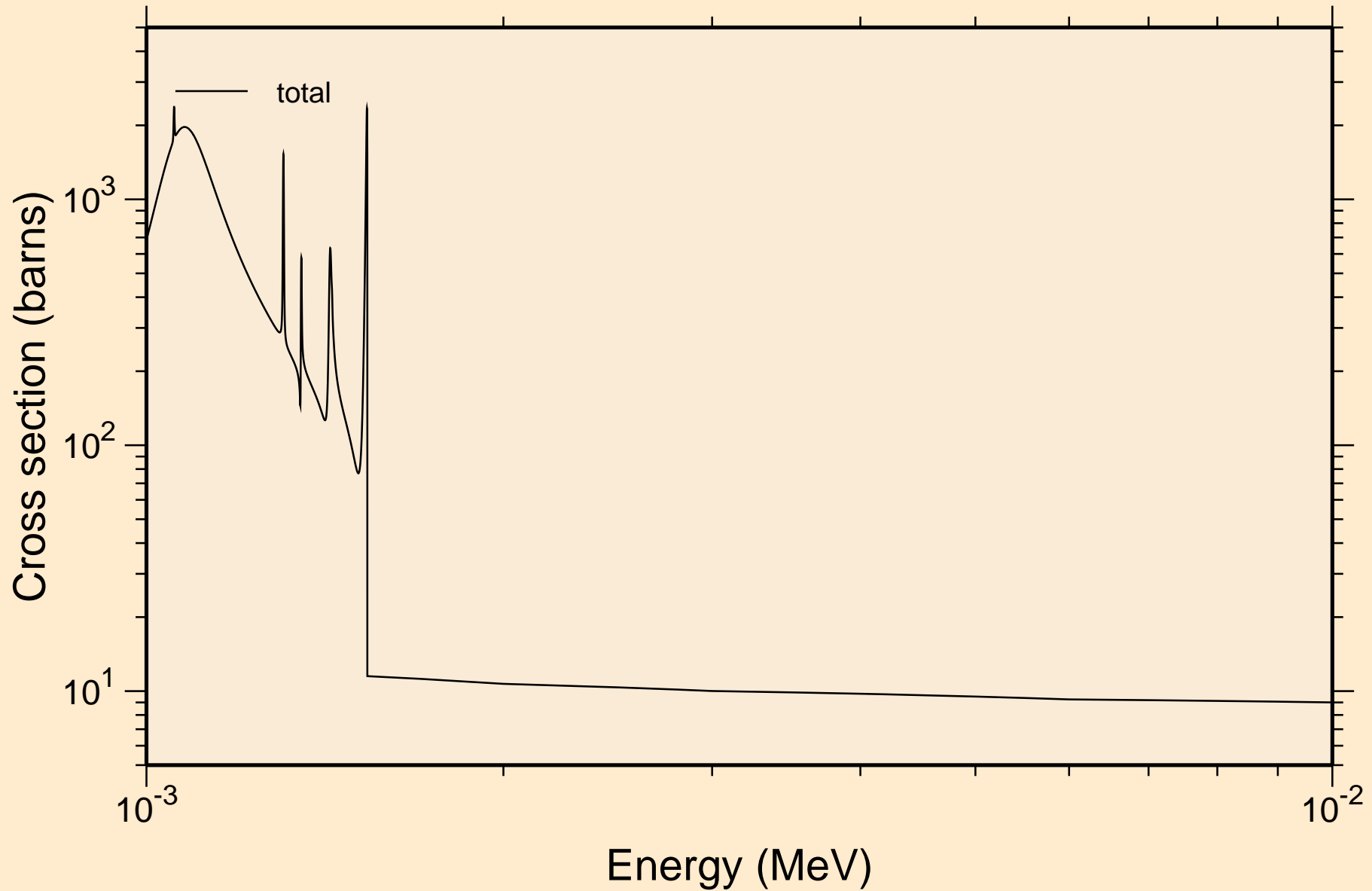
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections



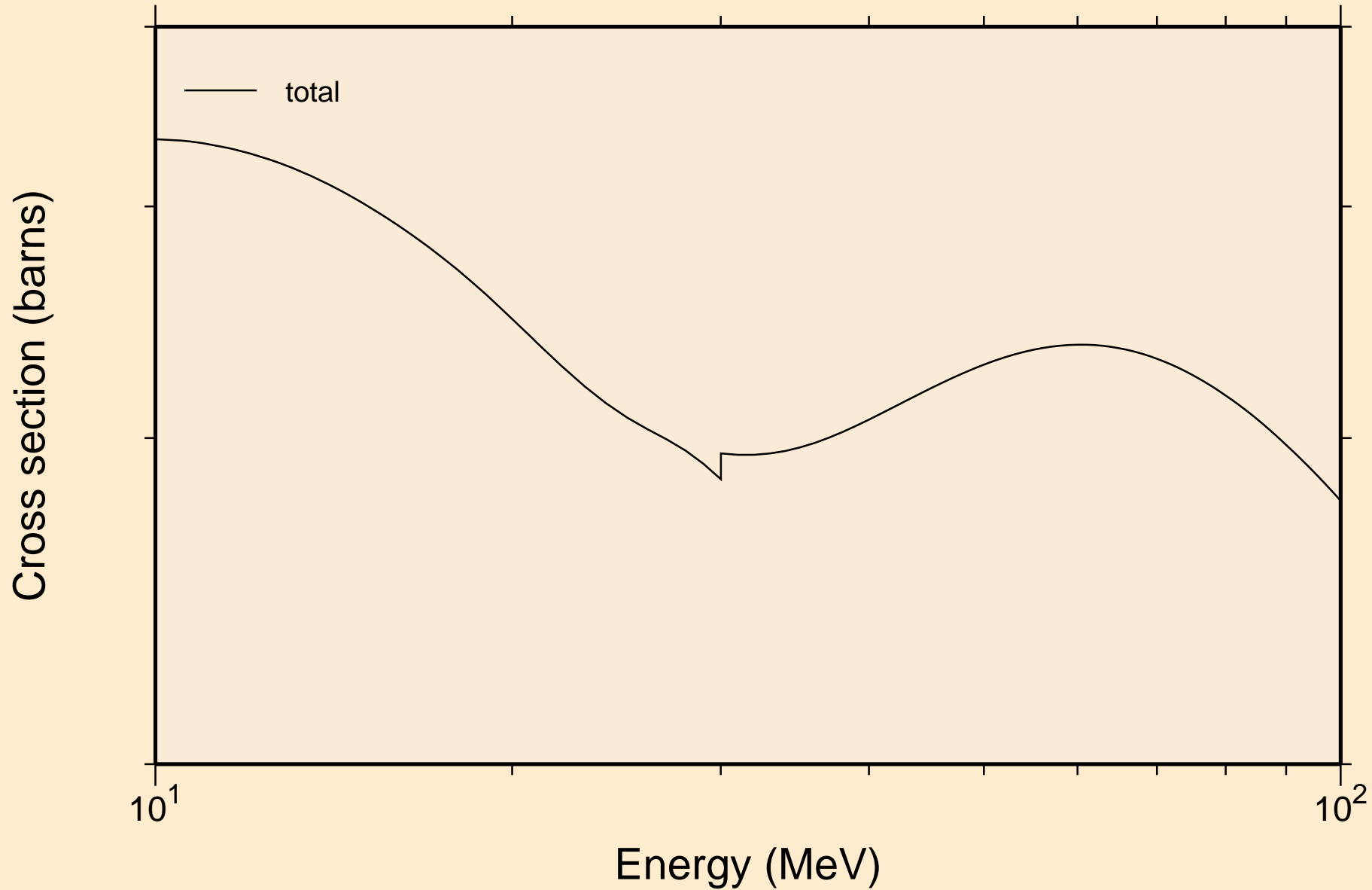
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



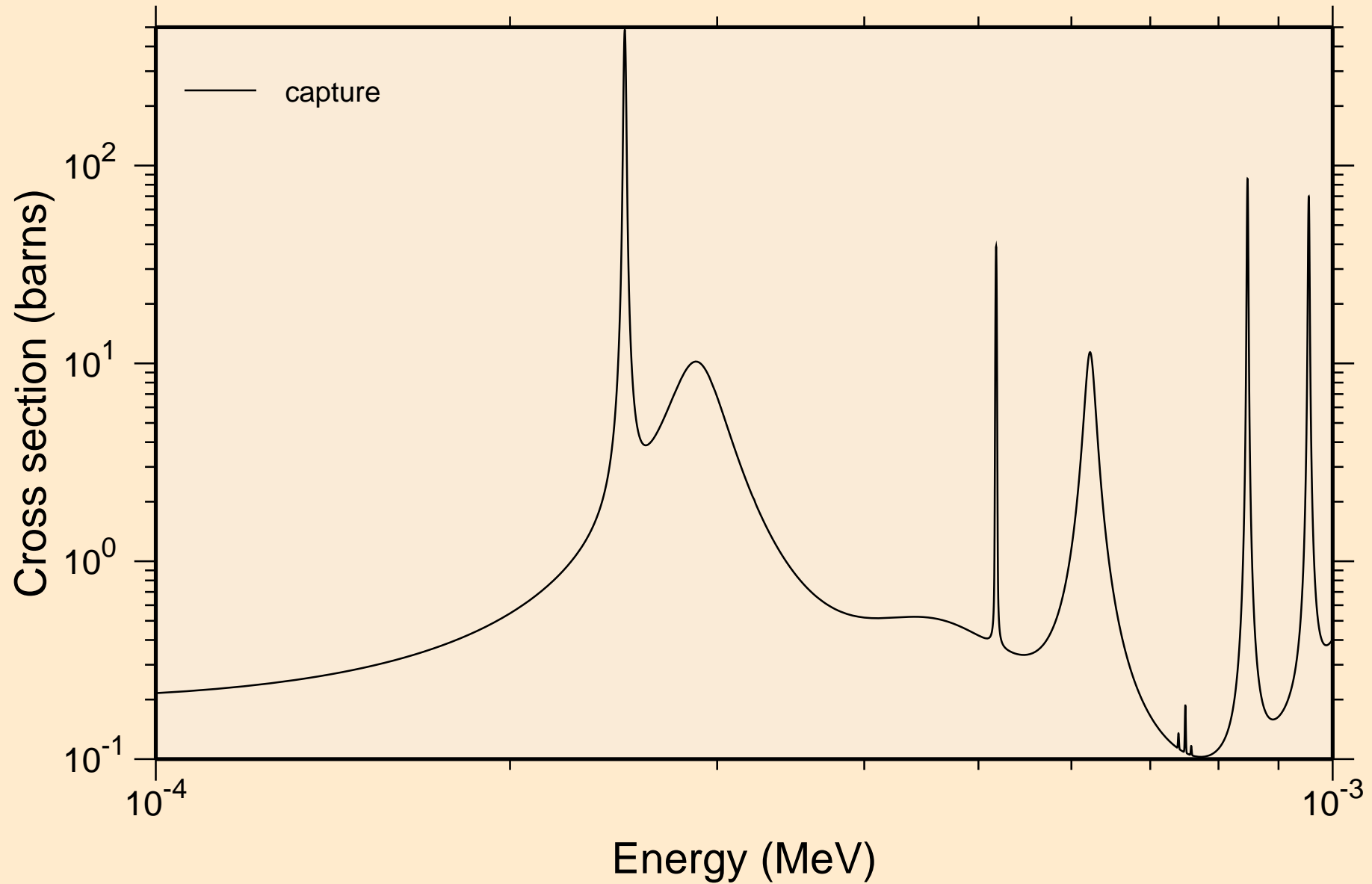
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



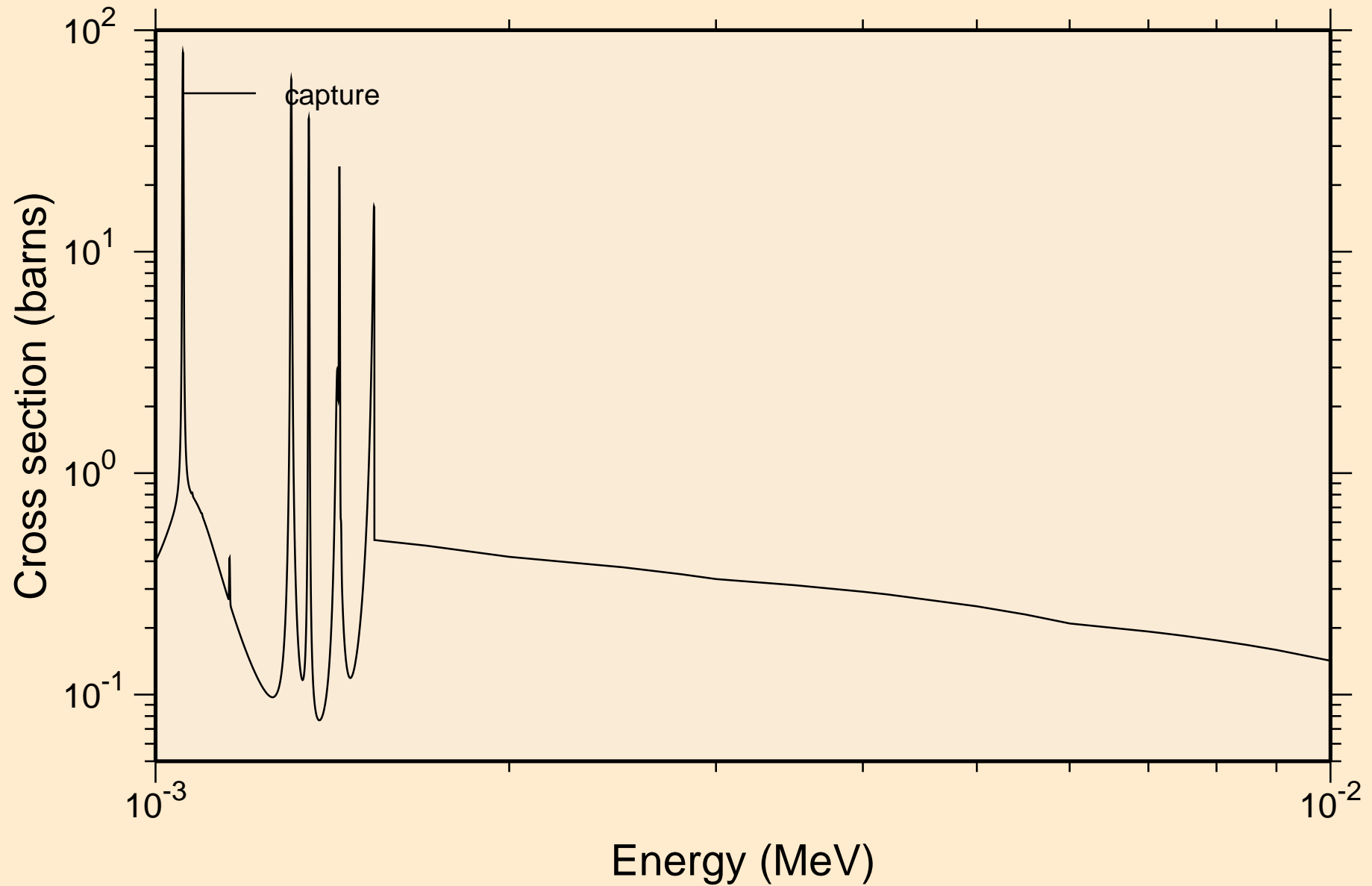
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resonance total cross section



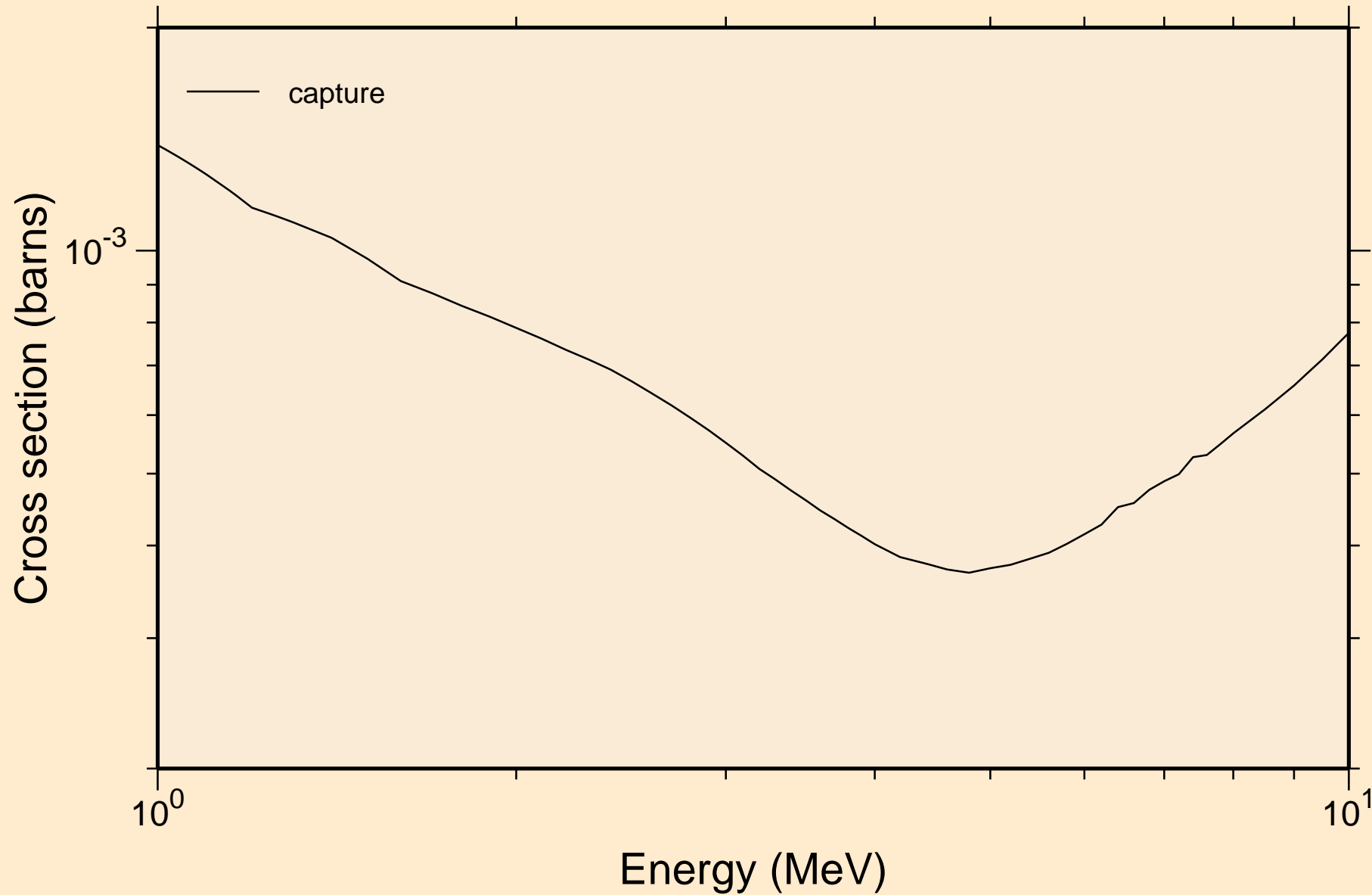
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



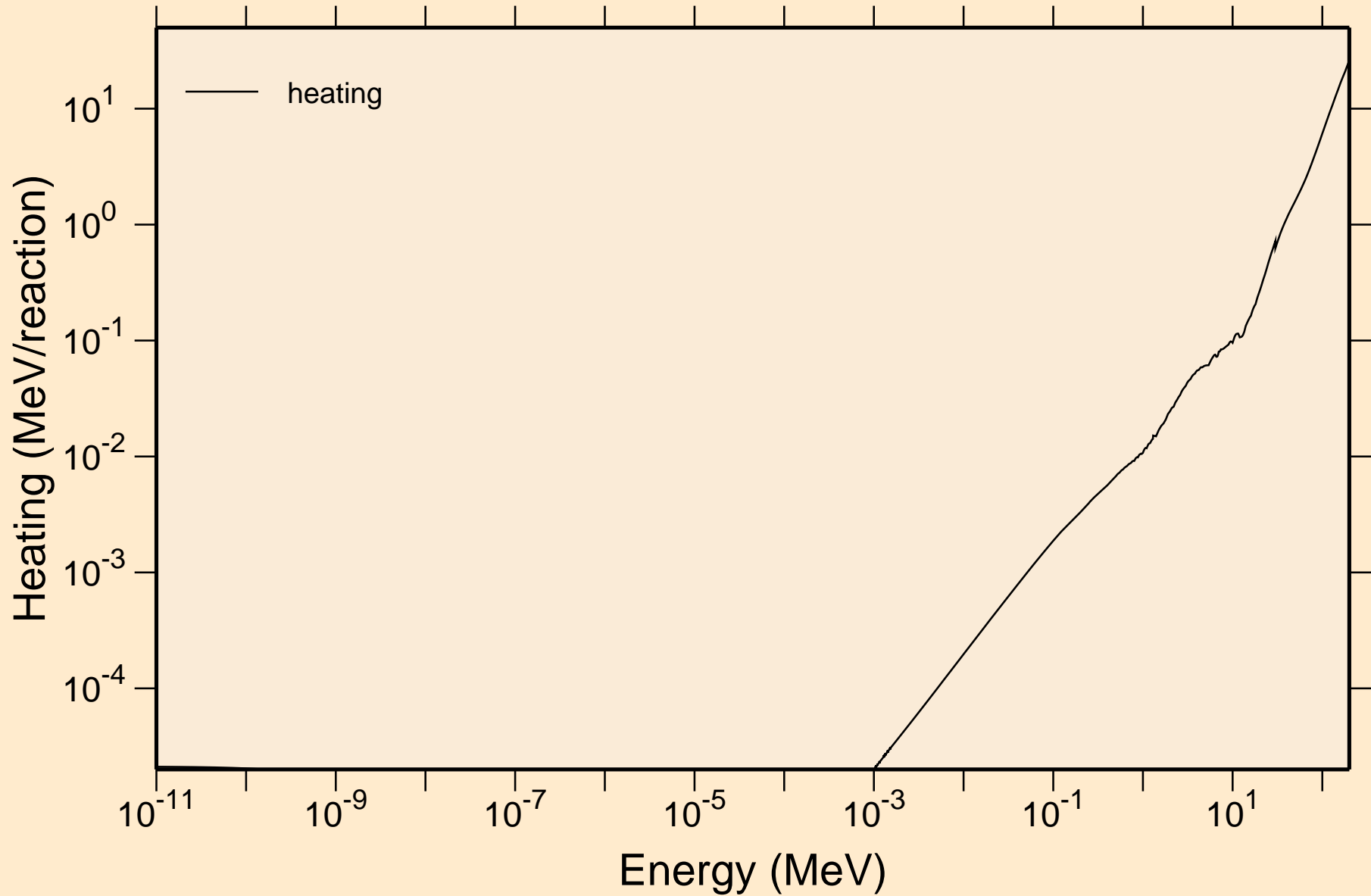
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

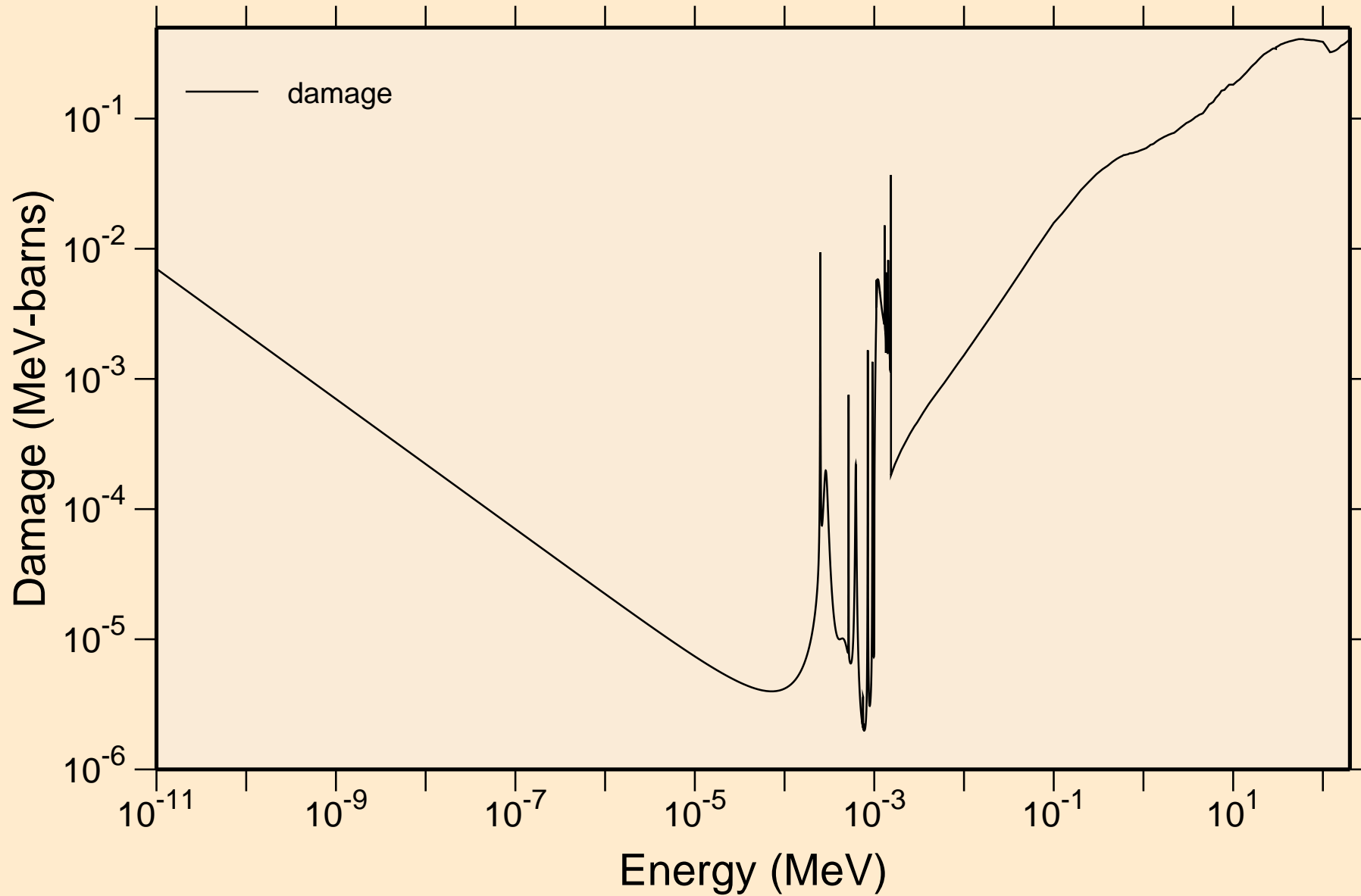


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

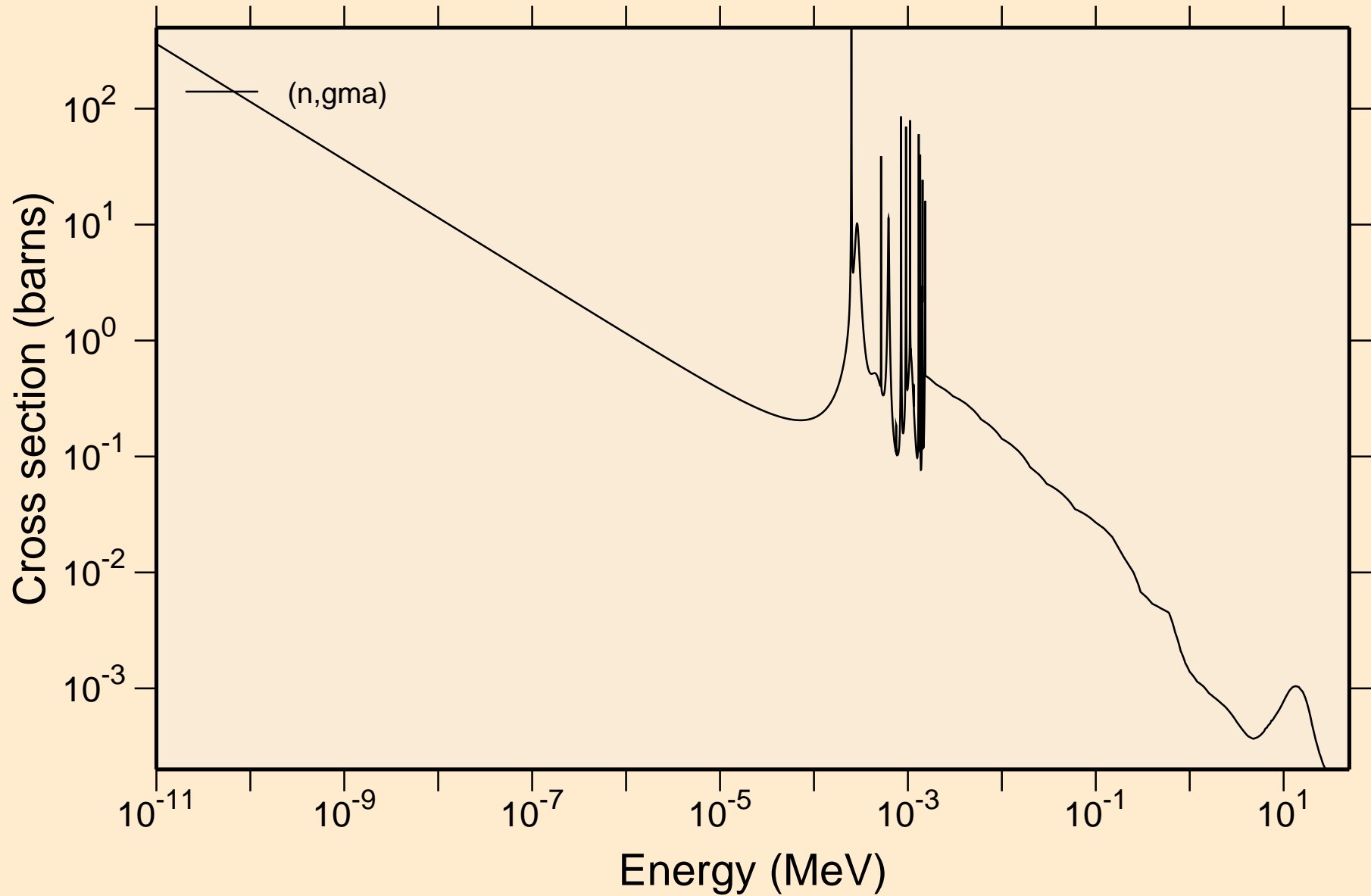




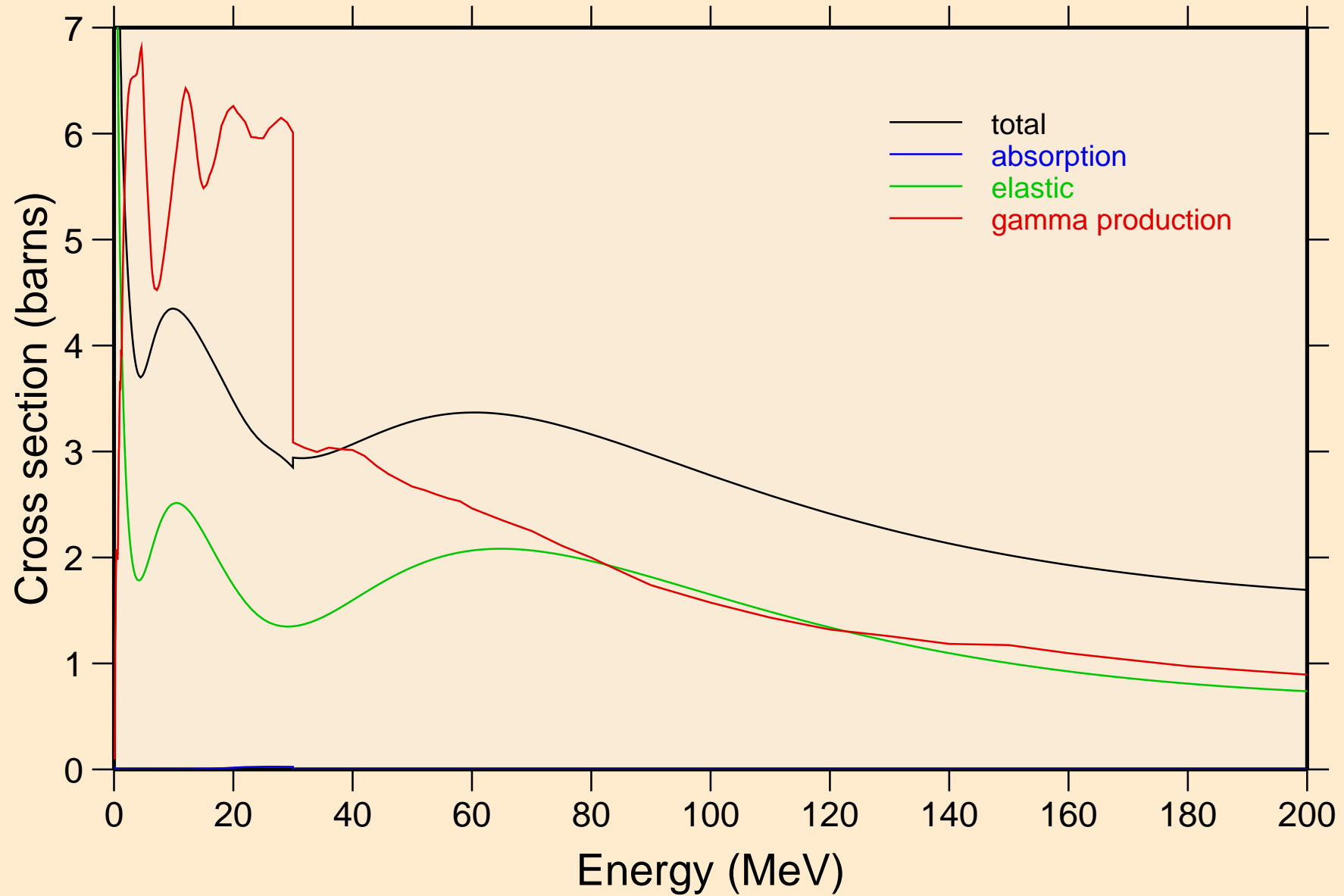
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

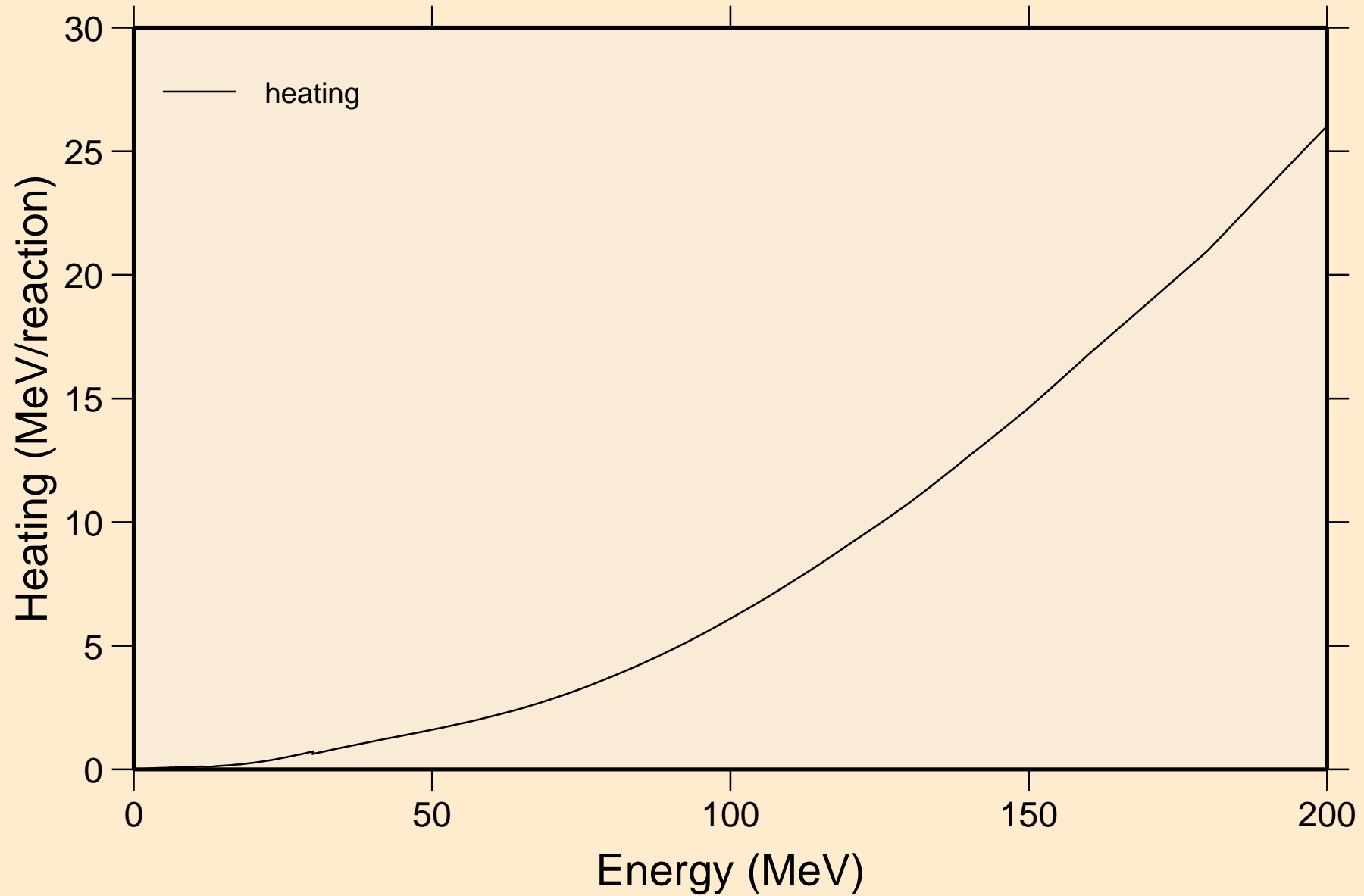


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections

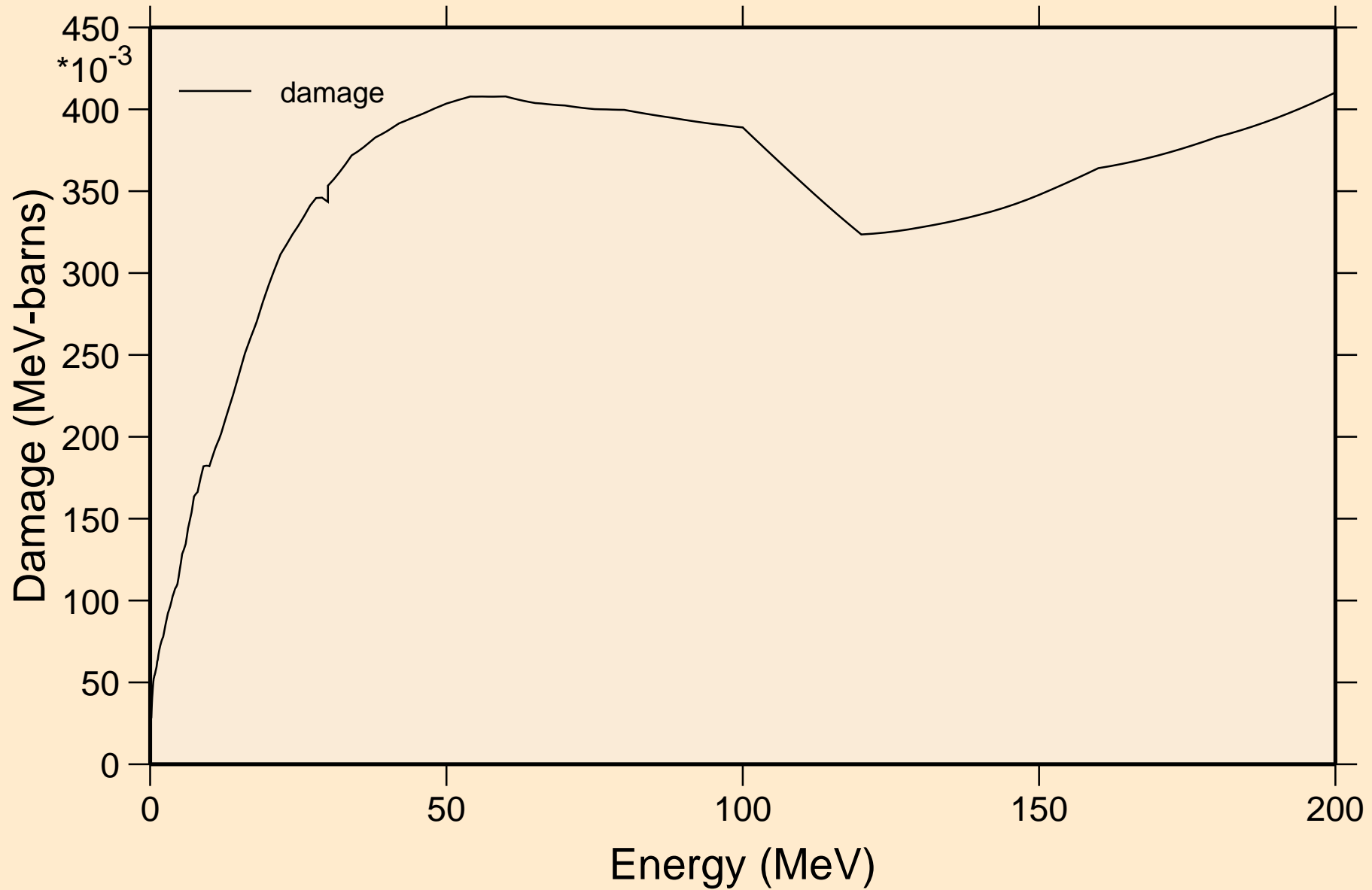


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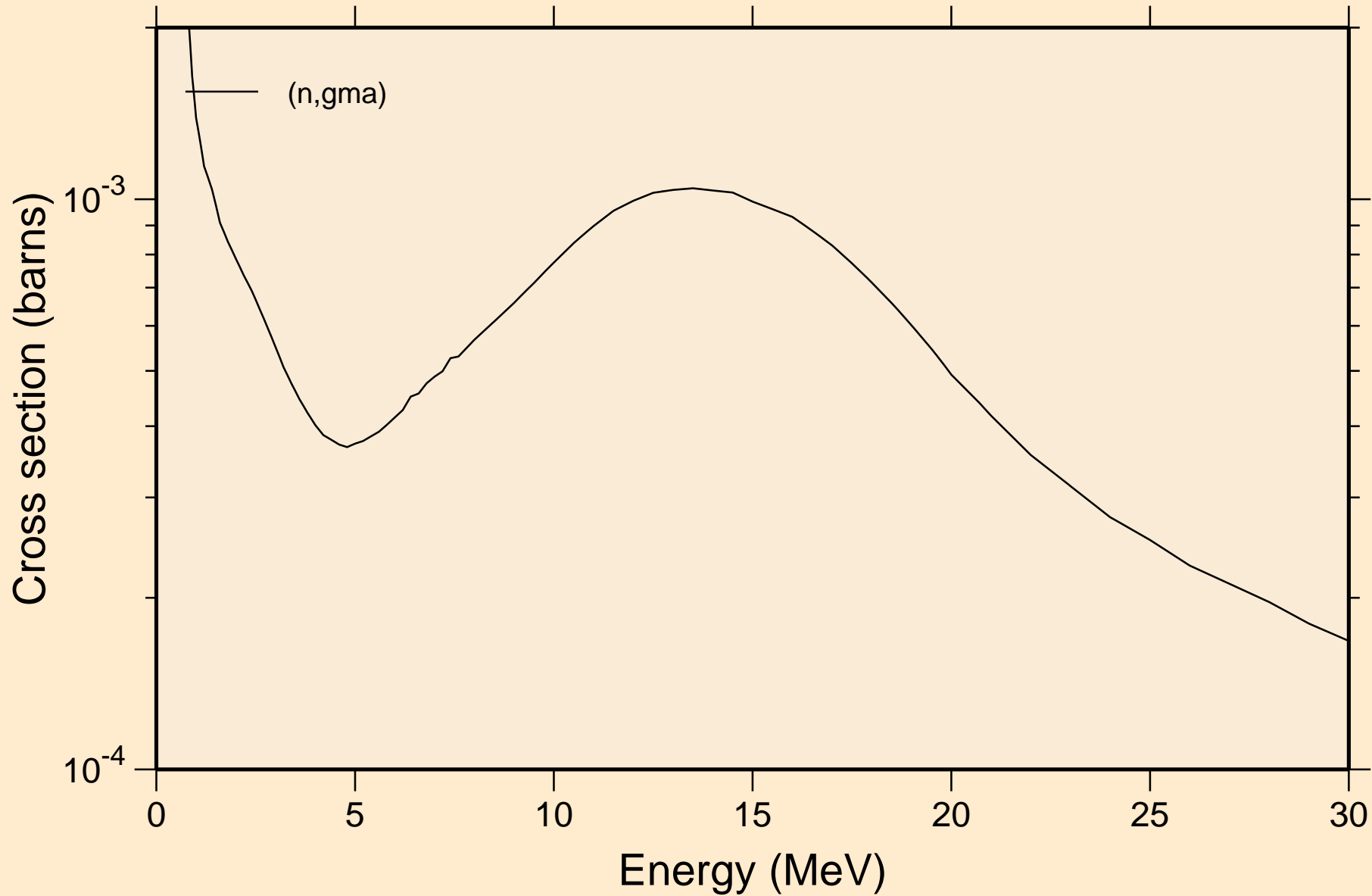
Heating



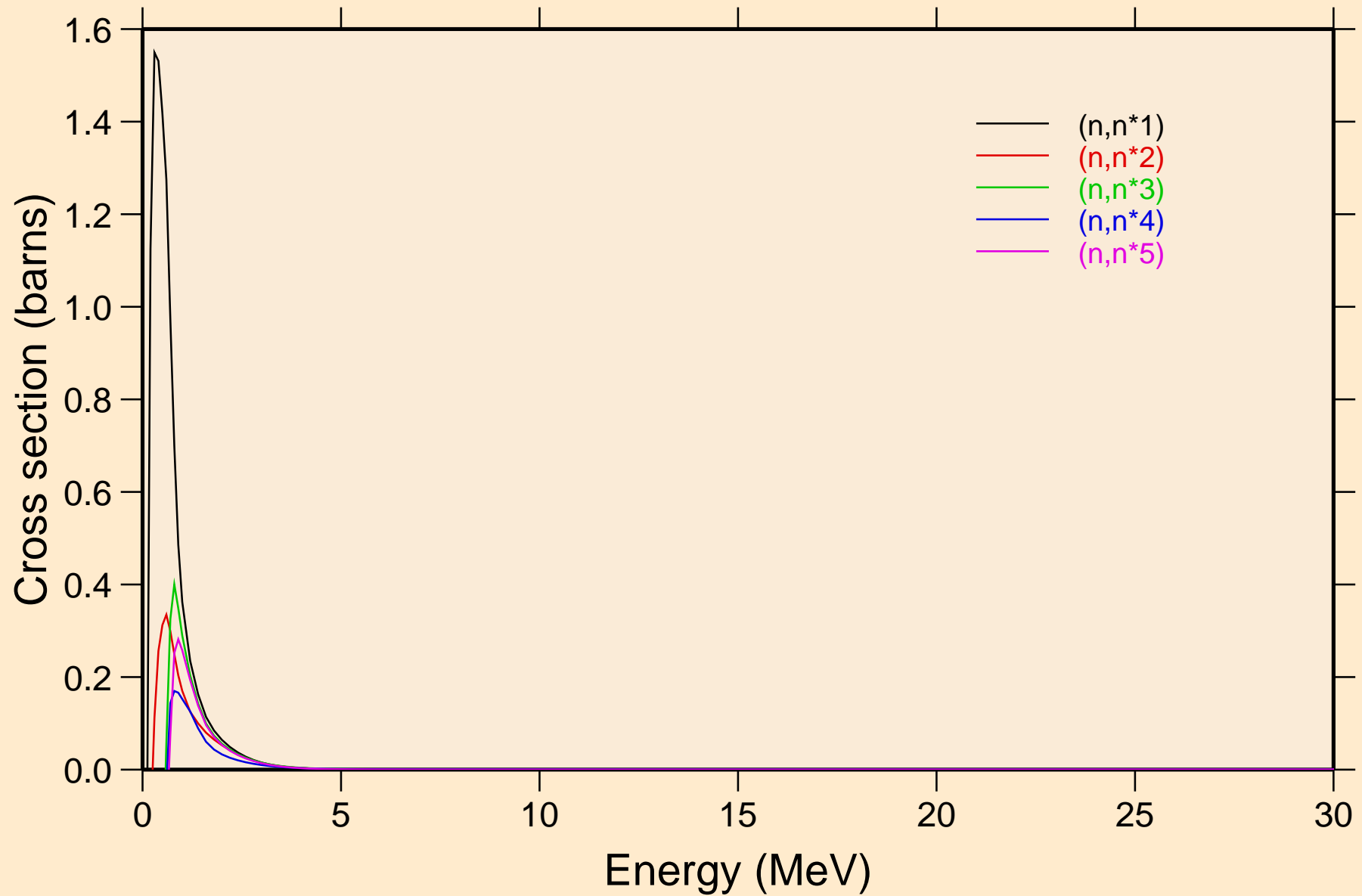
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Damage



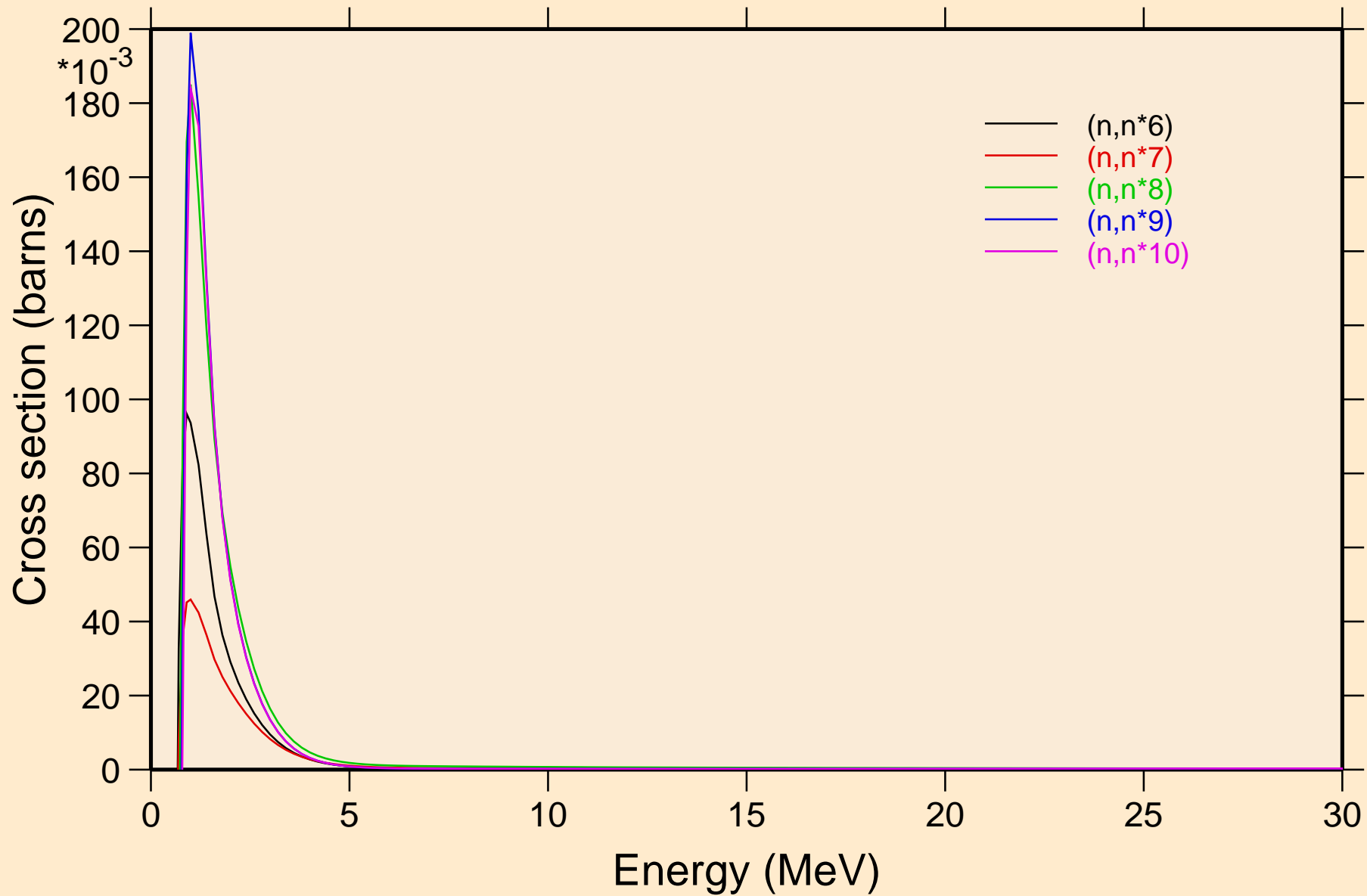
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

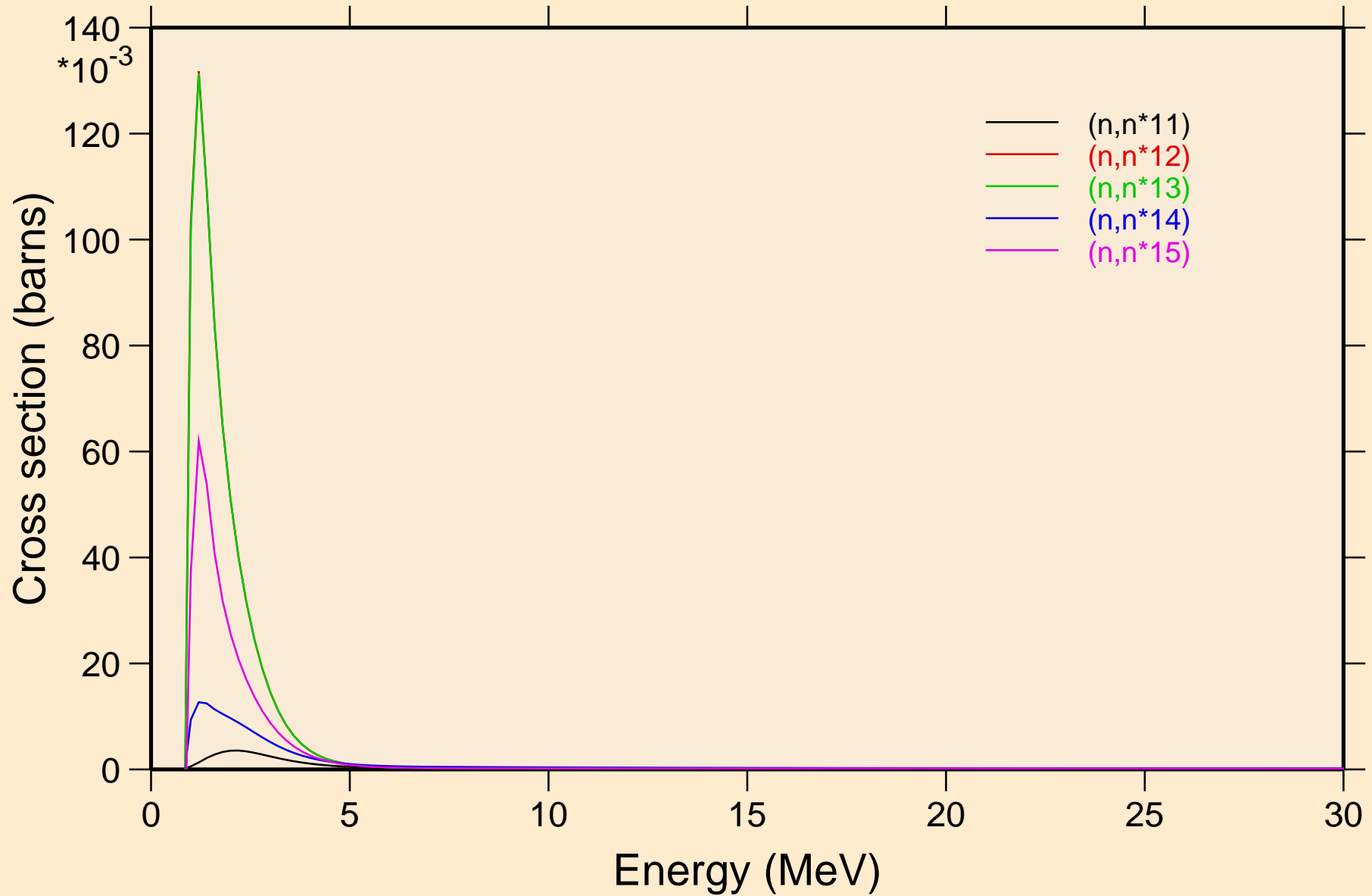


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

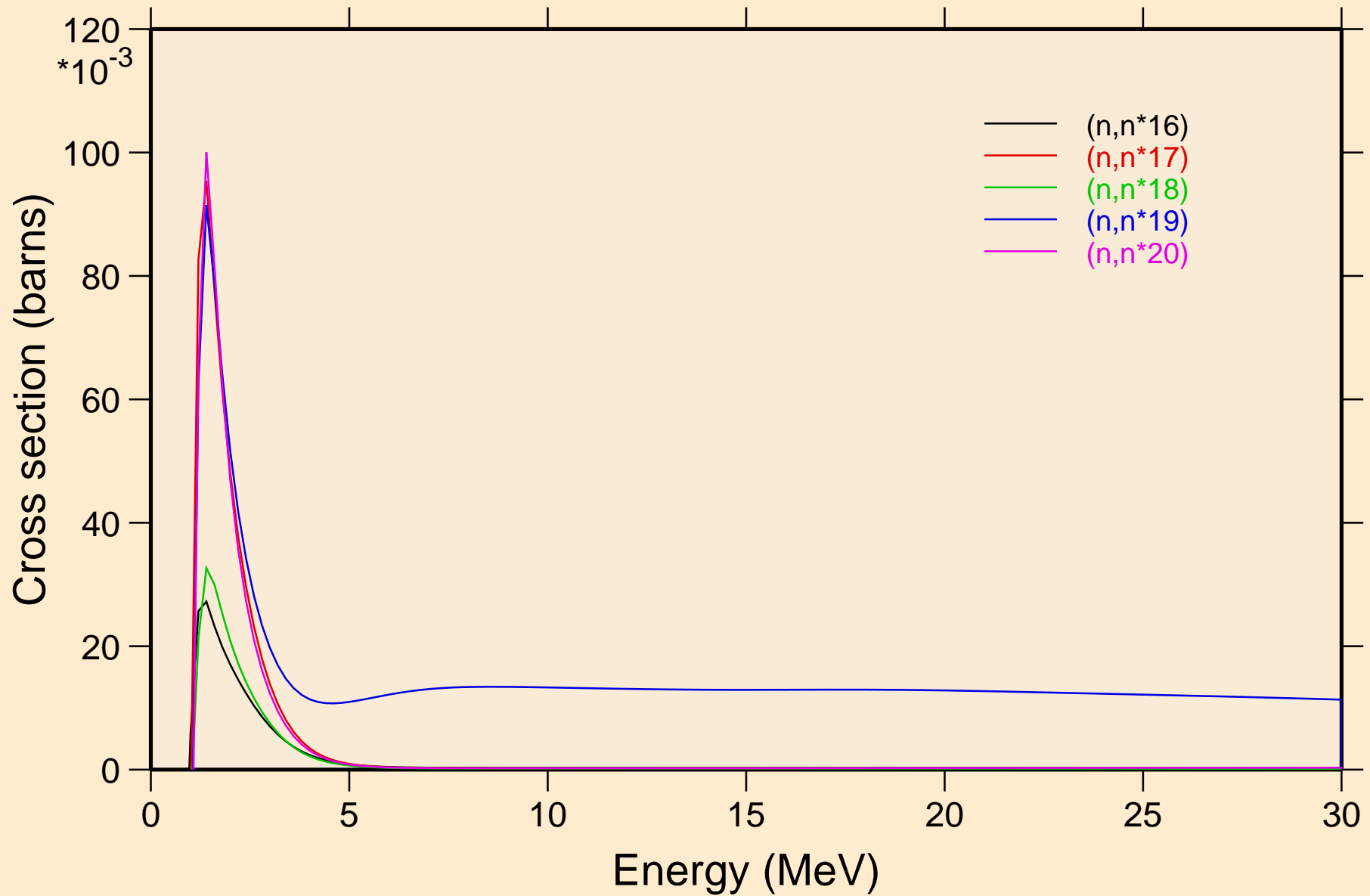




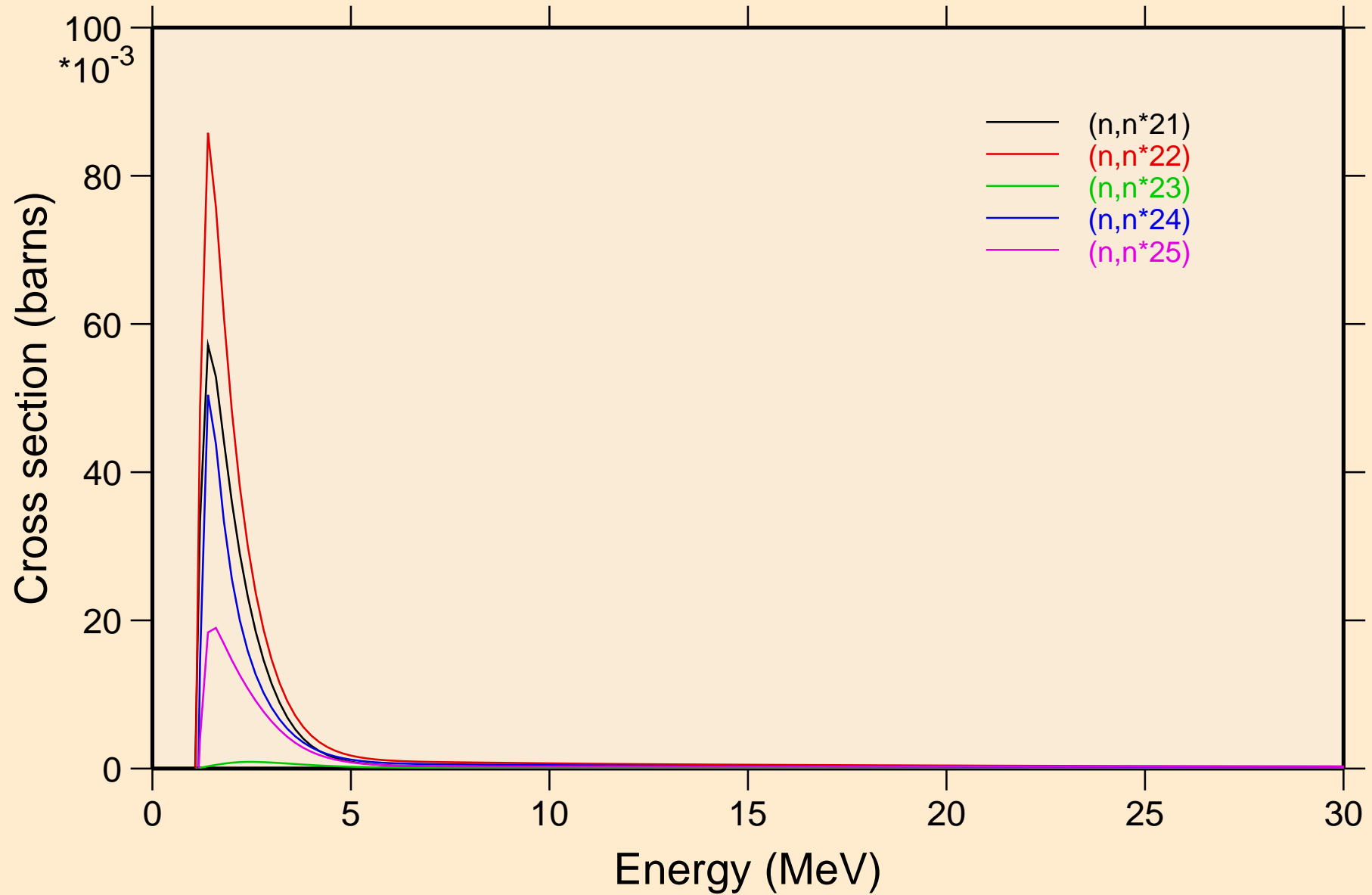
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



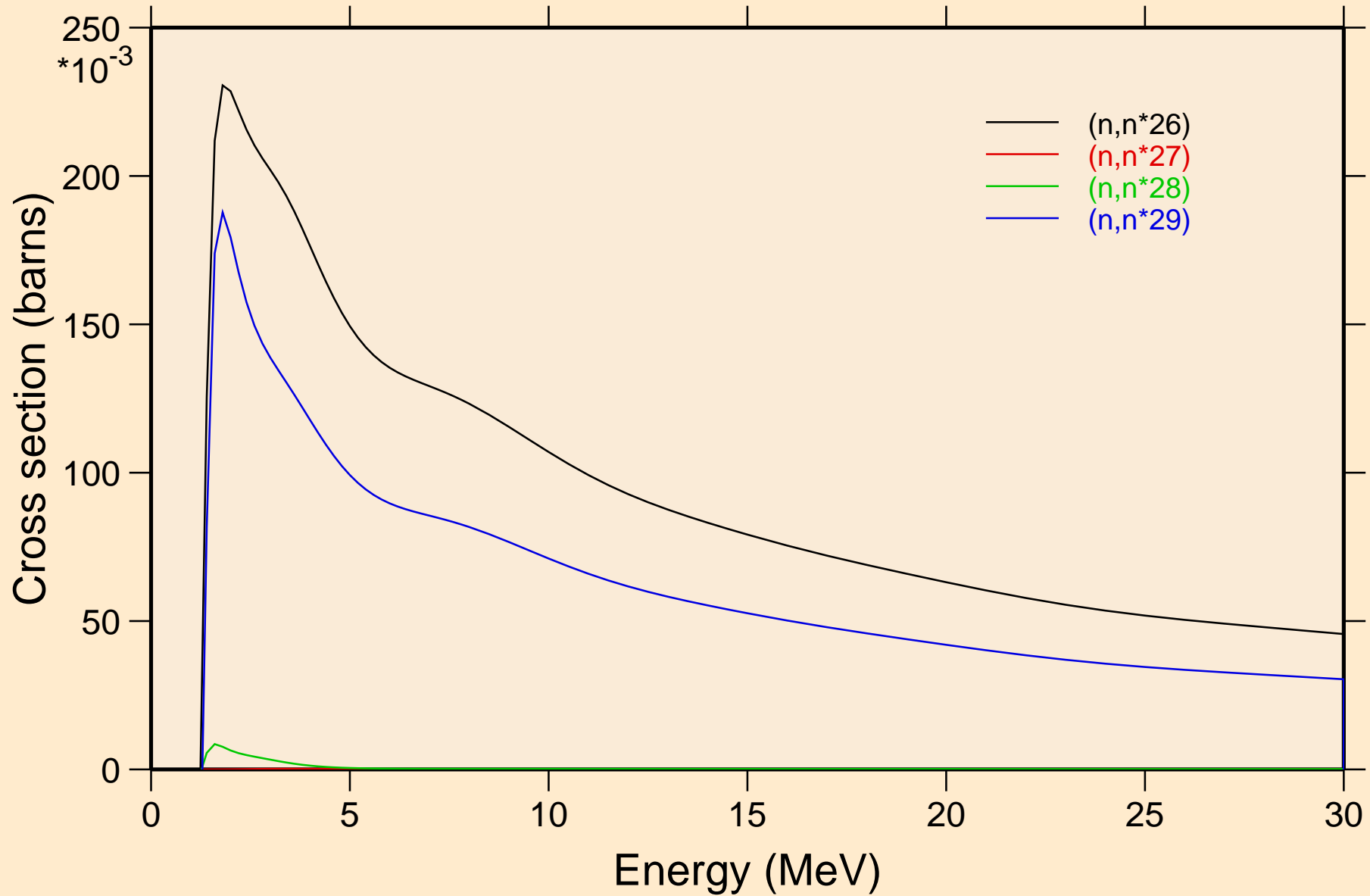
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



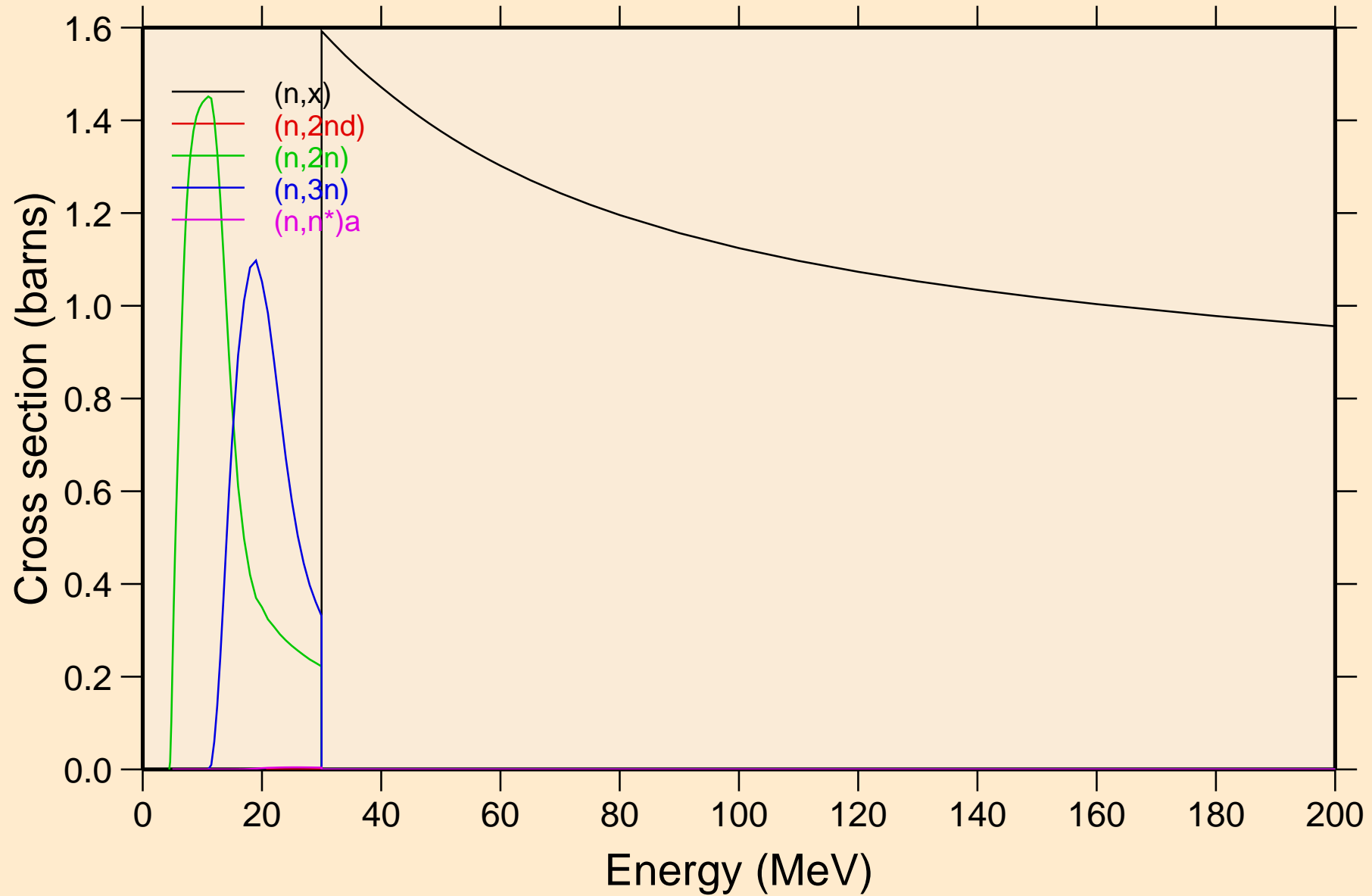
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

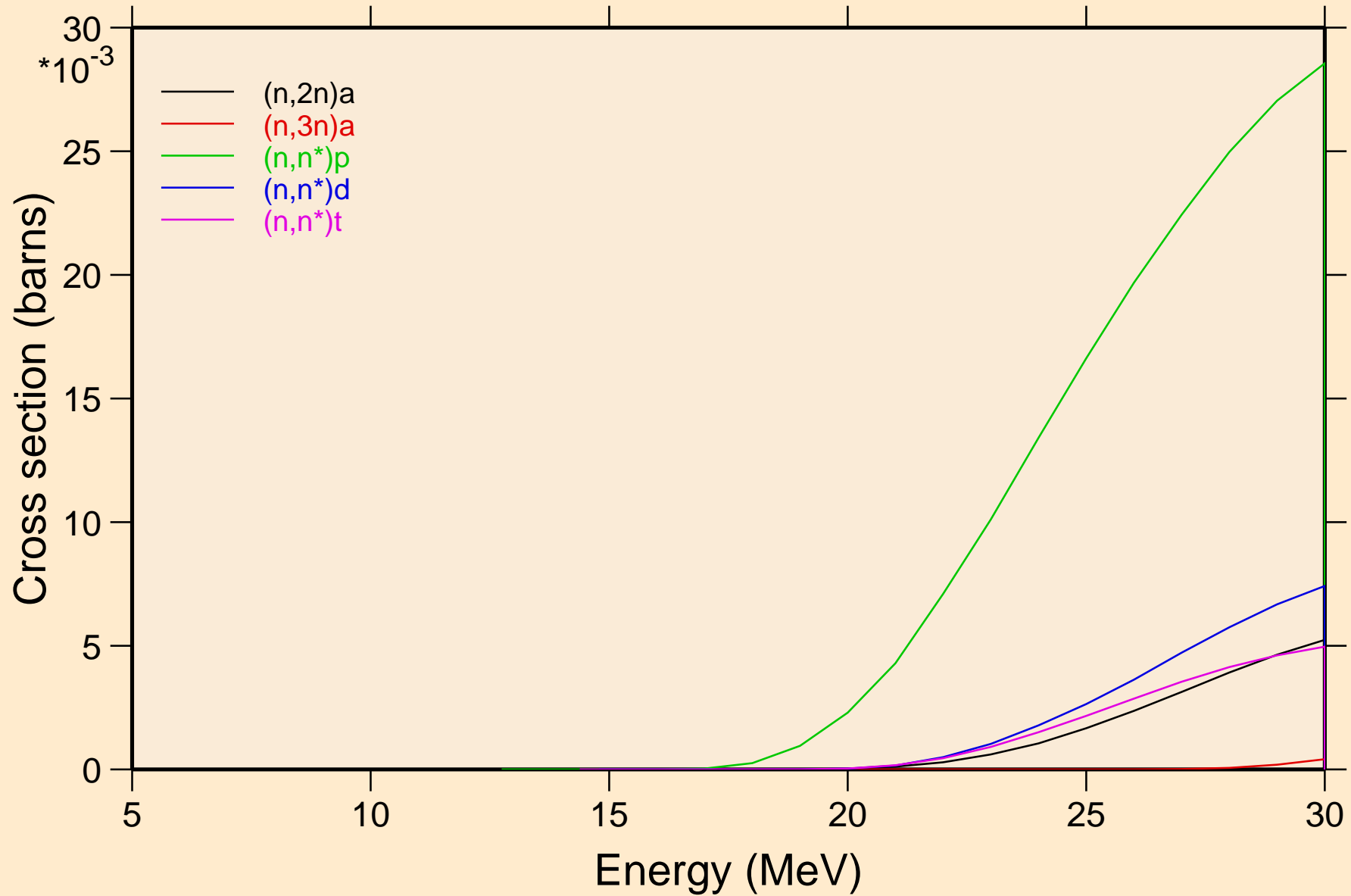


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

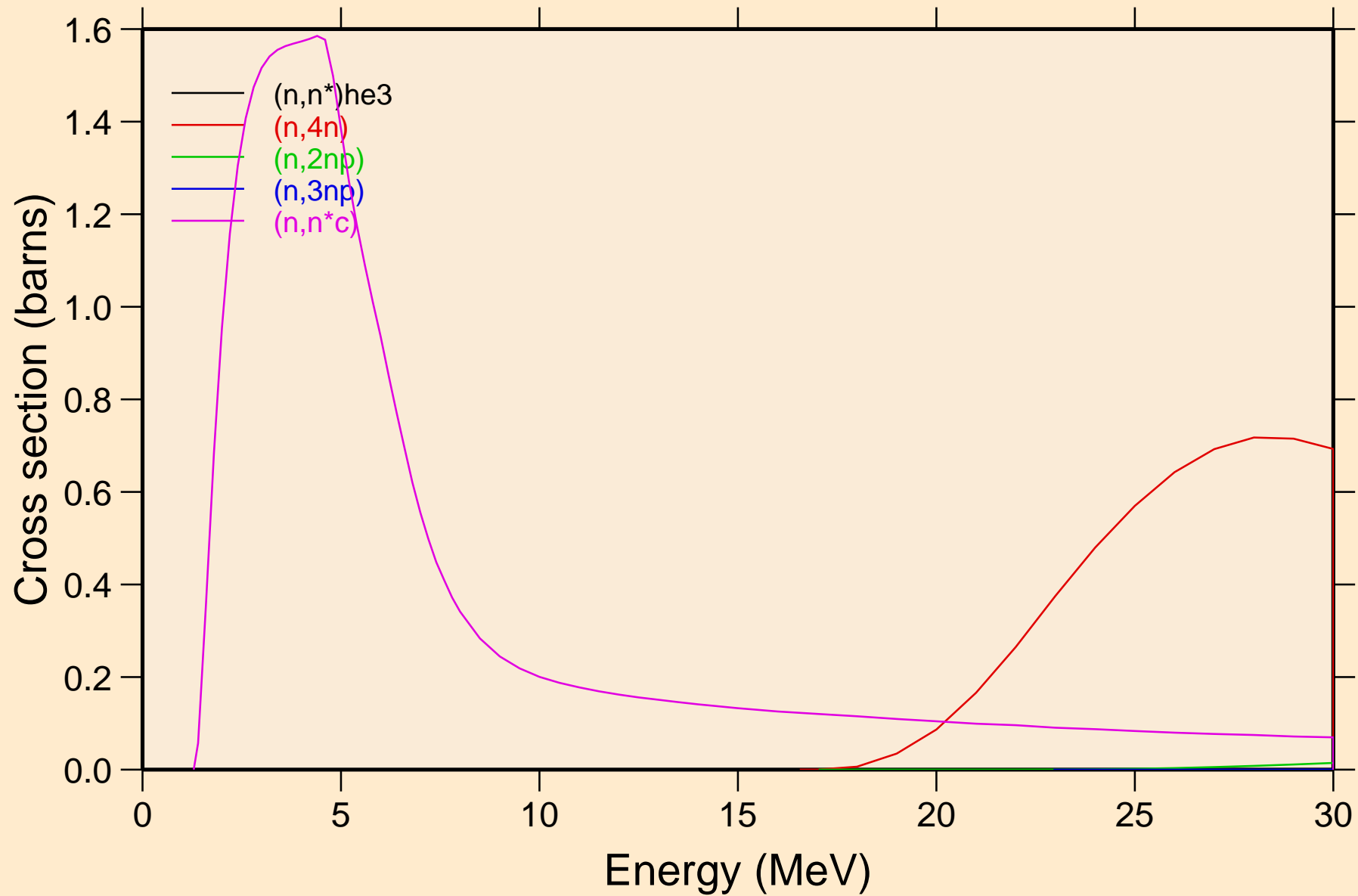


# ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

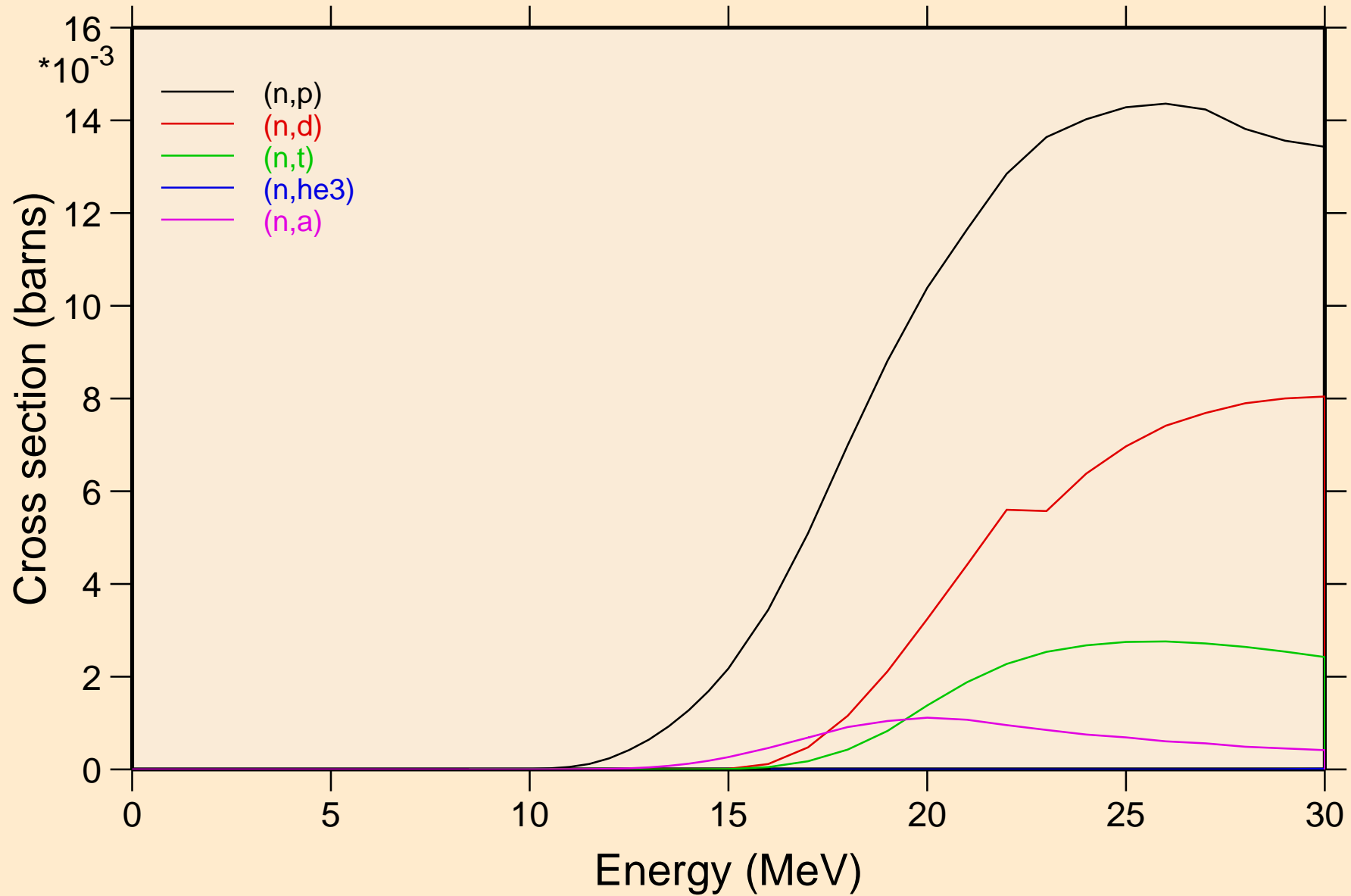
## Threshold reactions



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

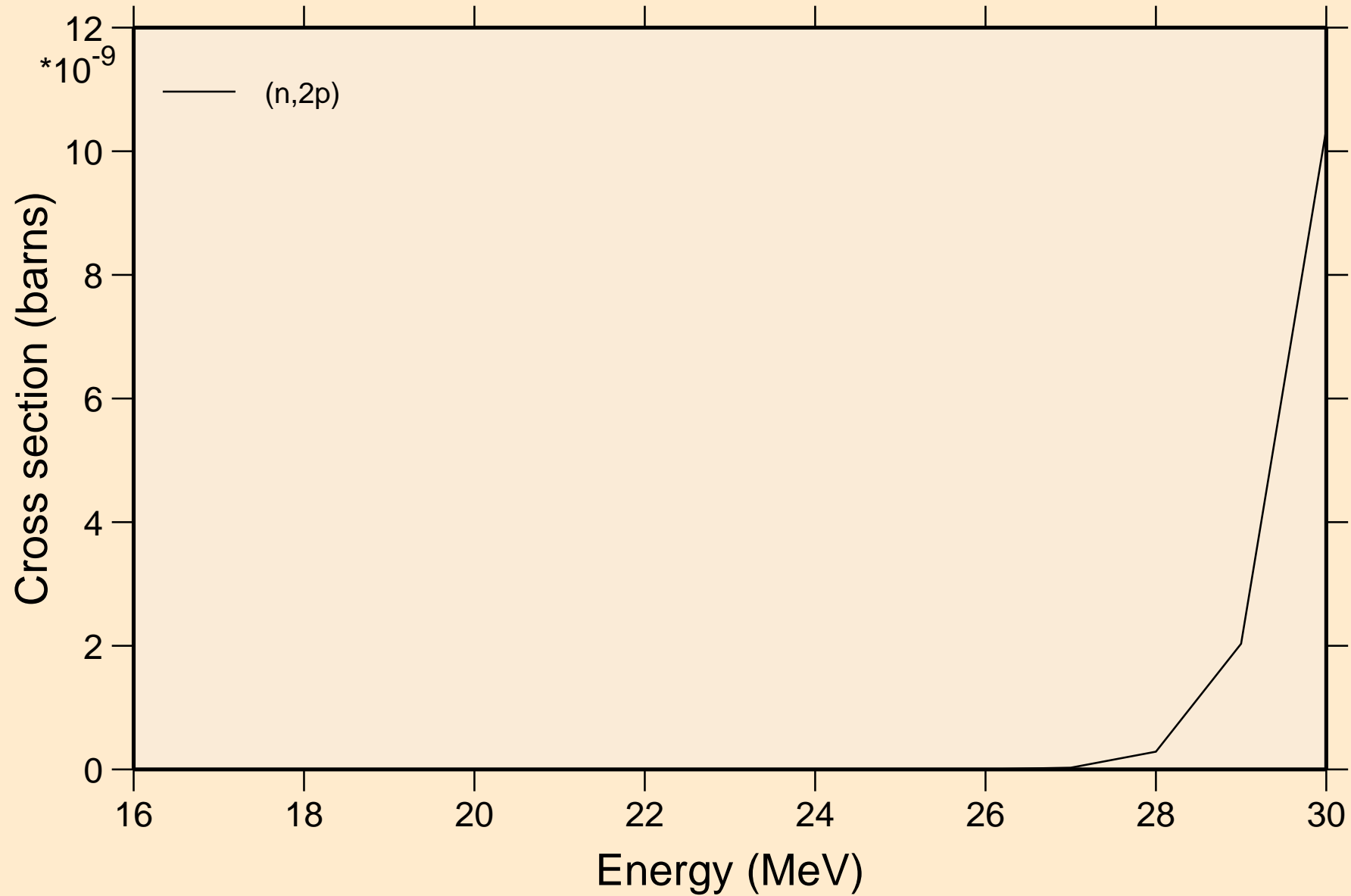


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

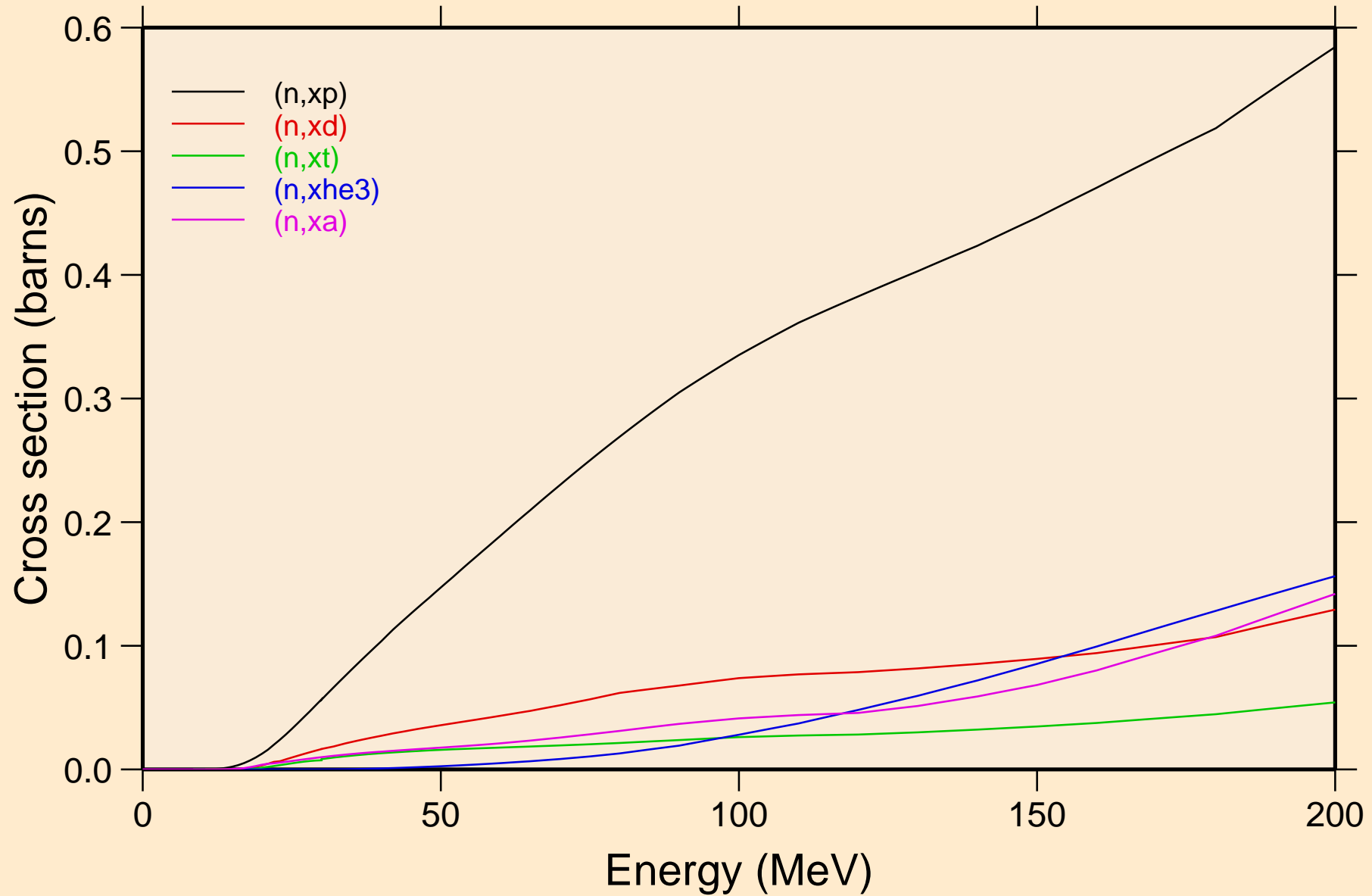




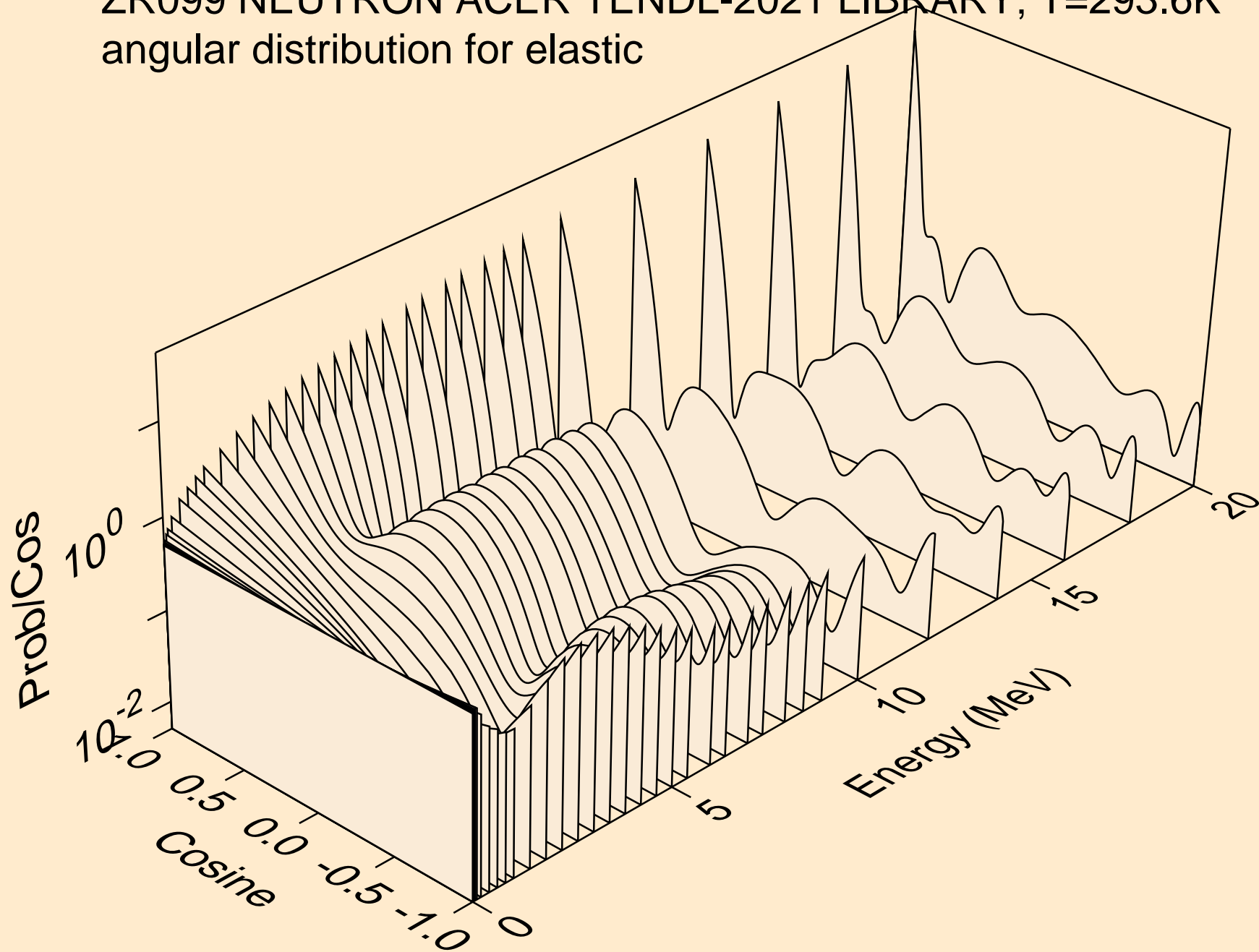
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



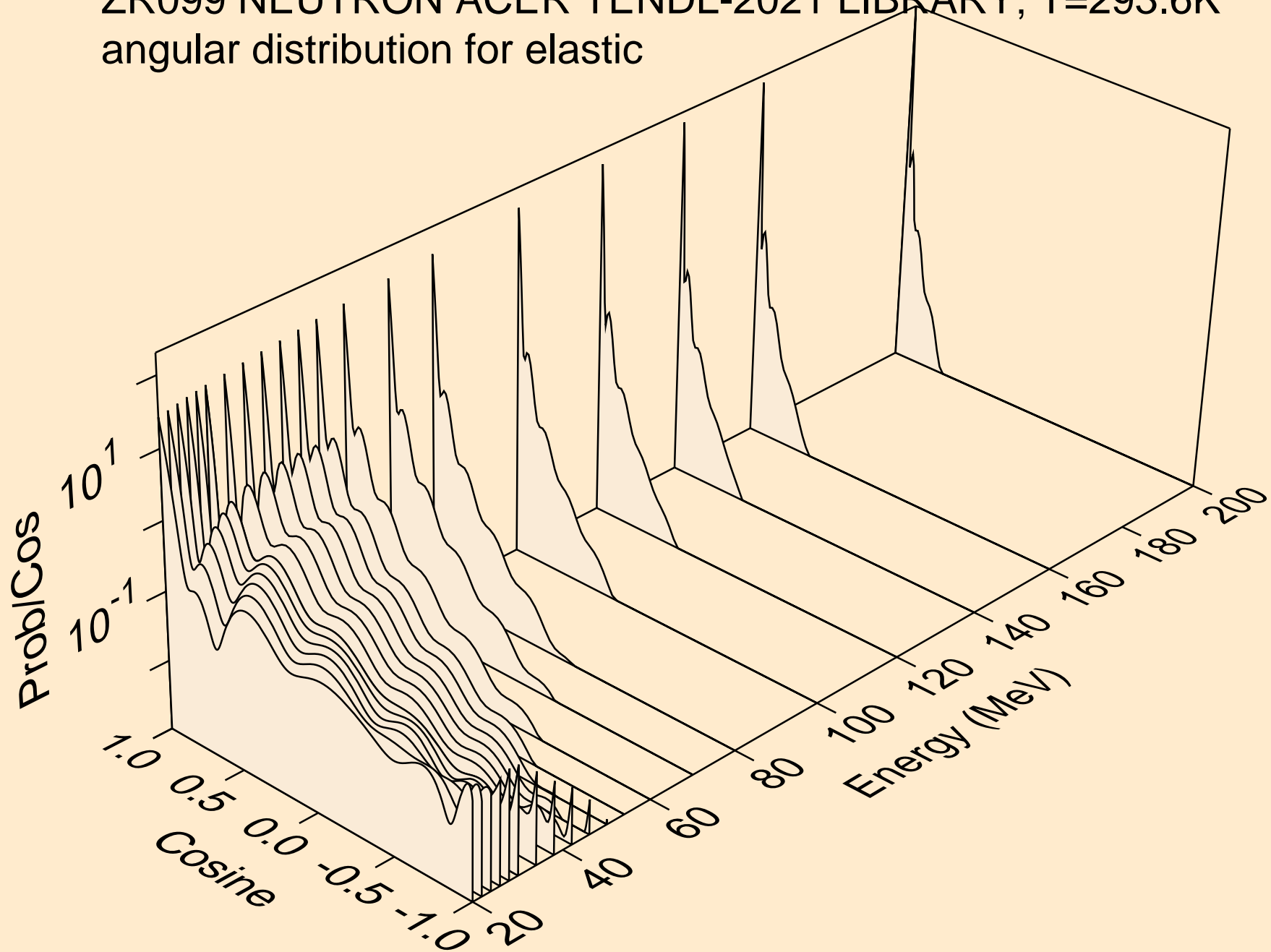
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



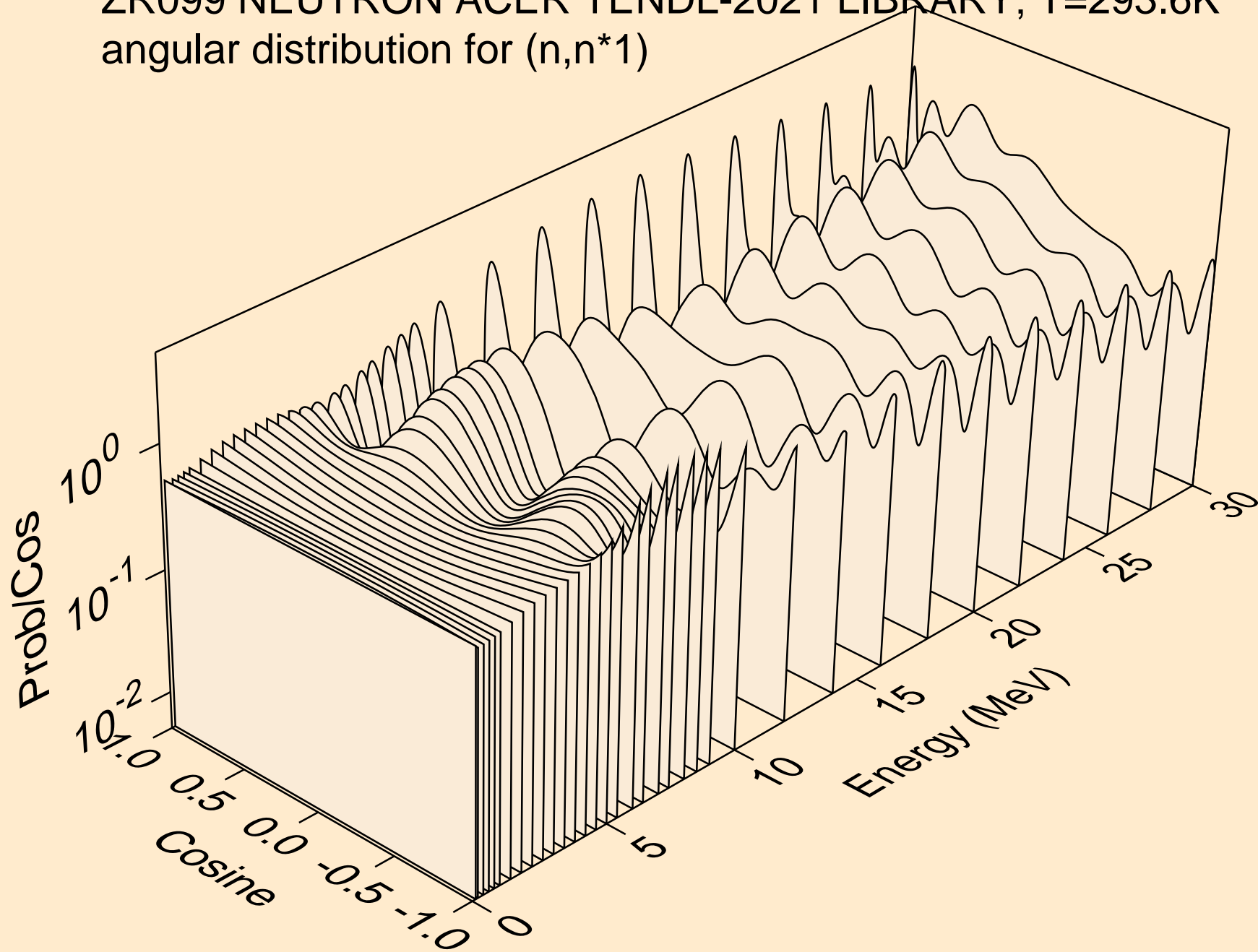
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



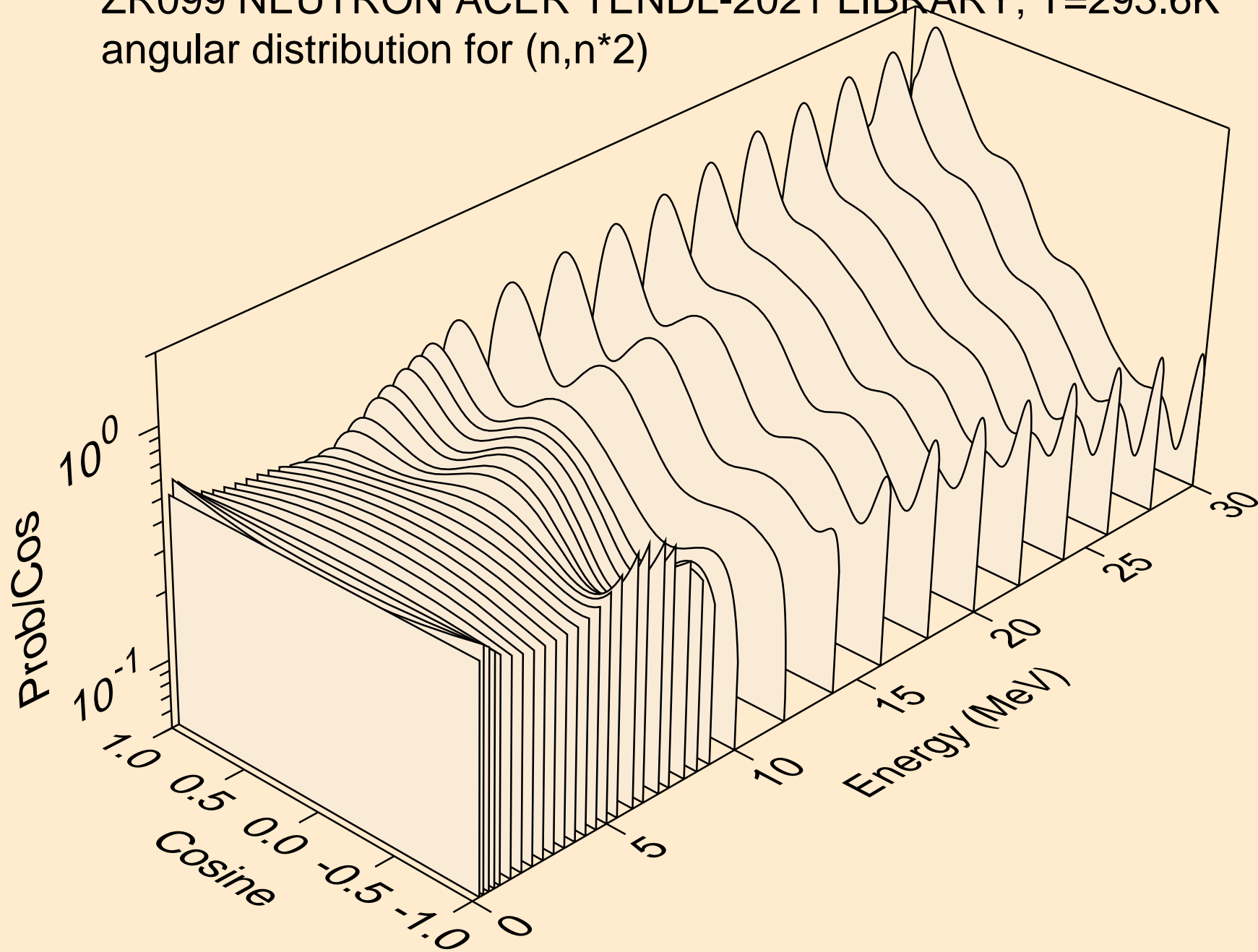
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angular distribution for elastic



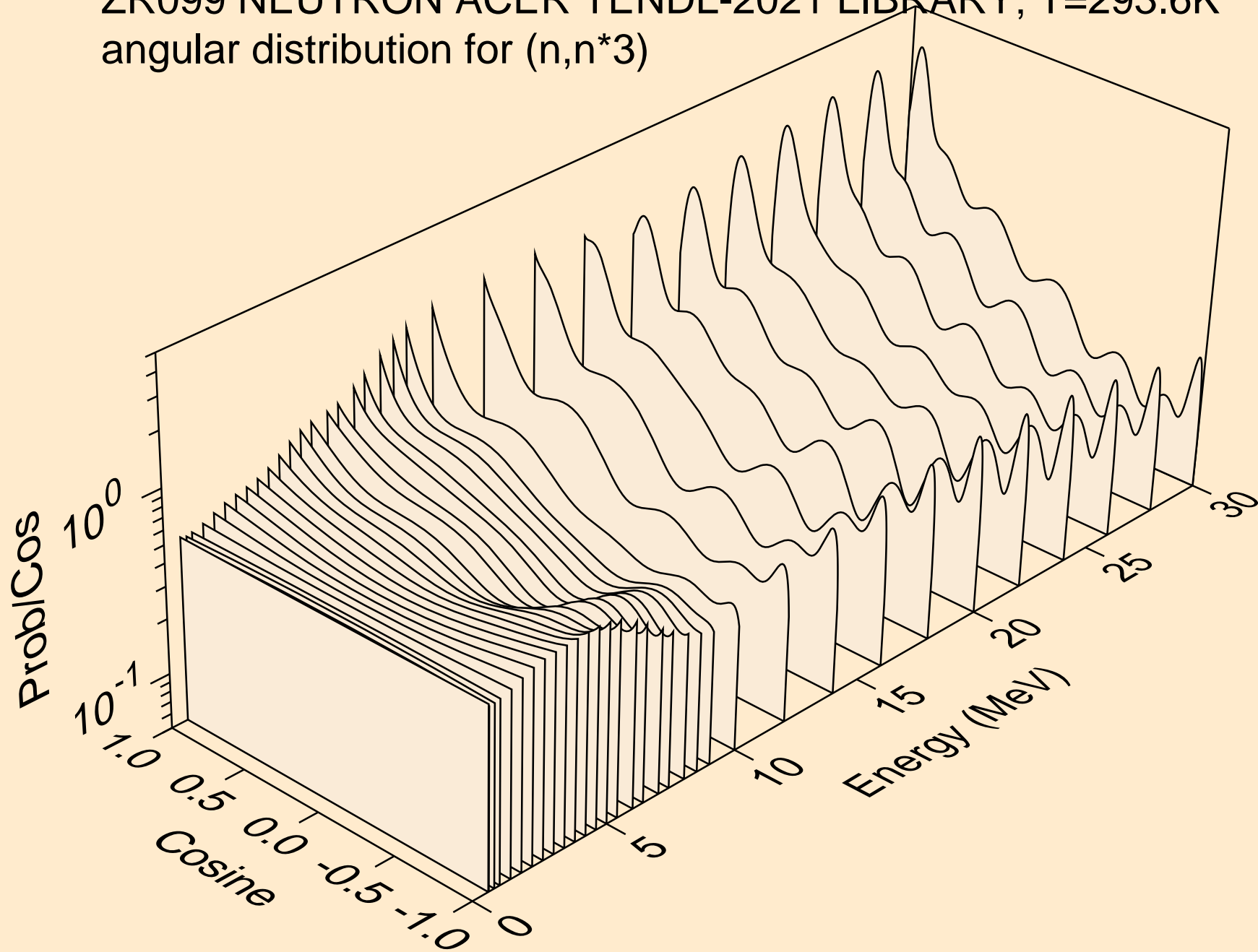
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



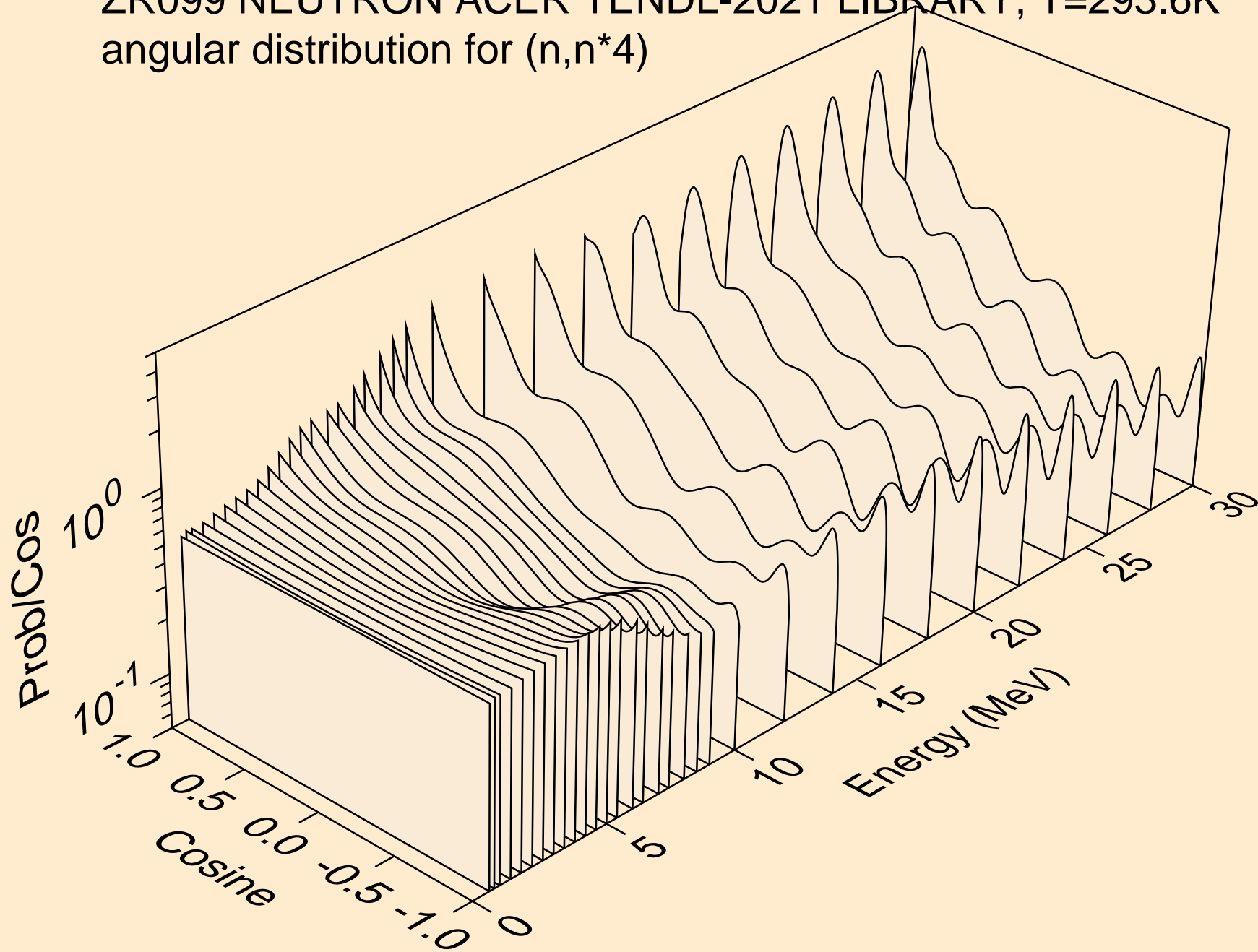
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)

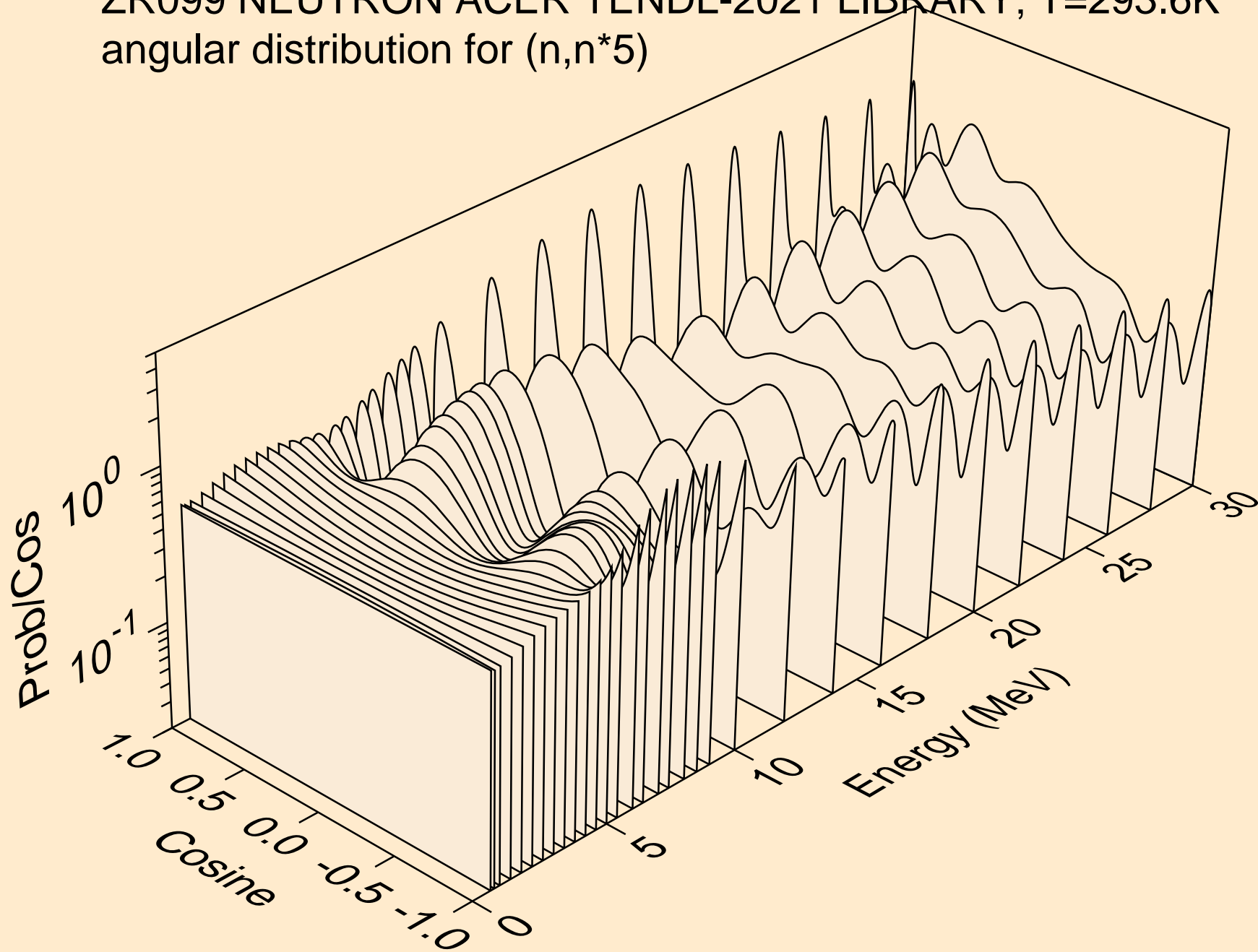


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)

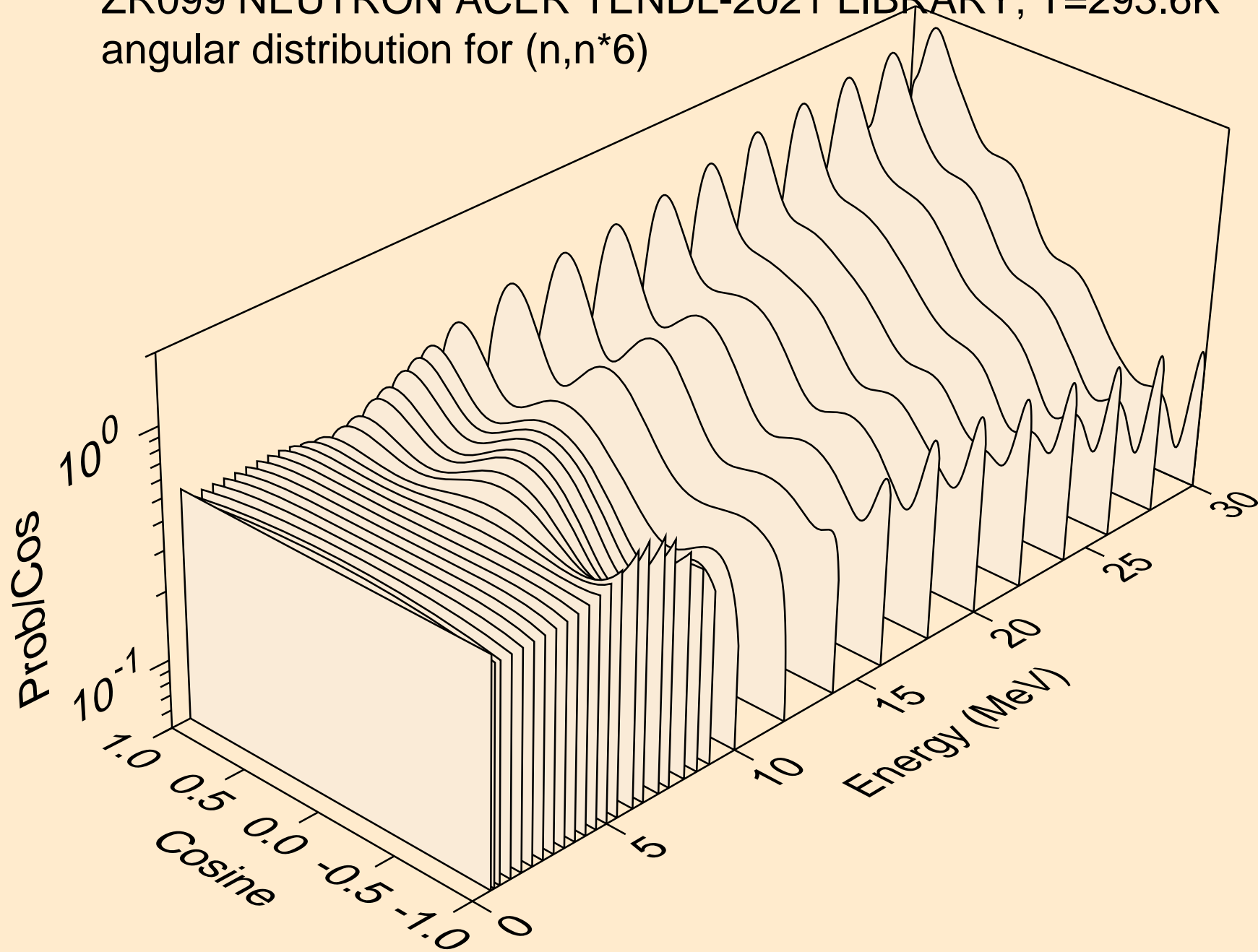




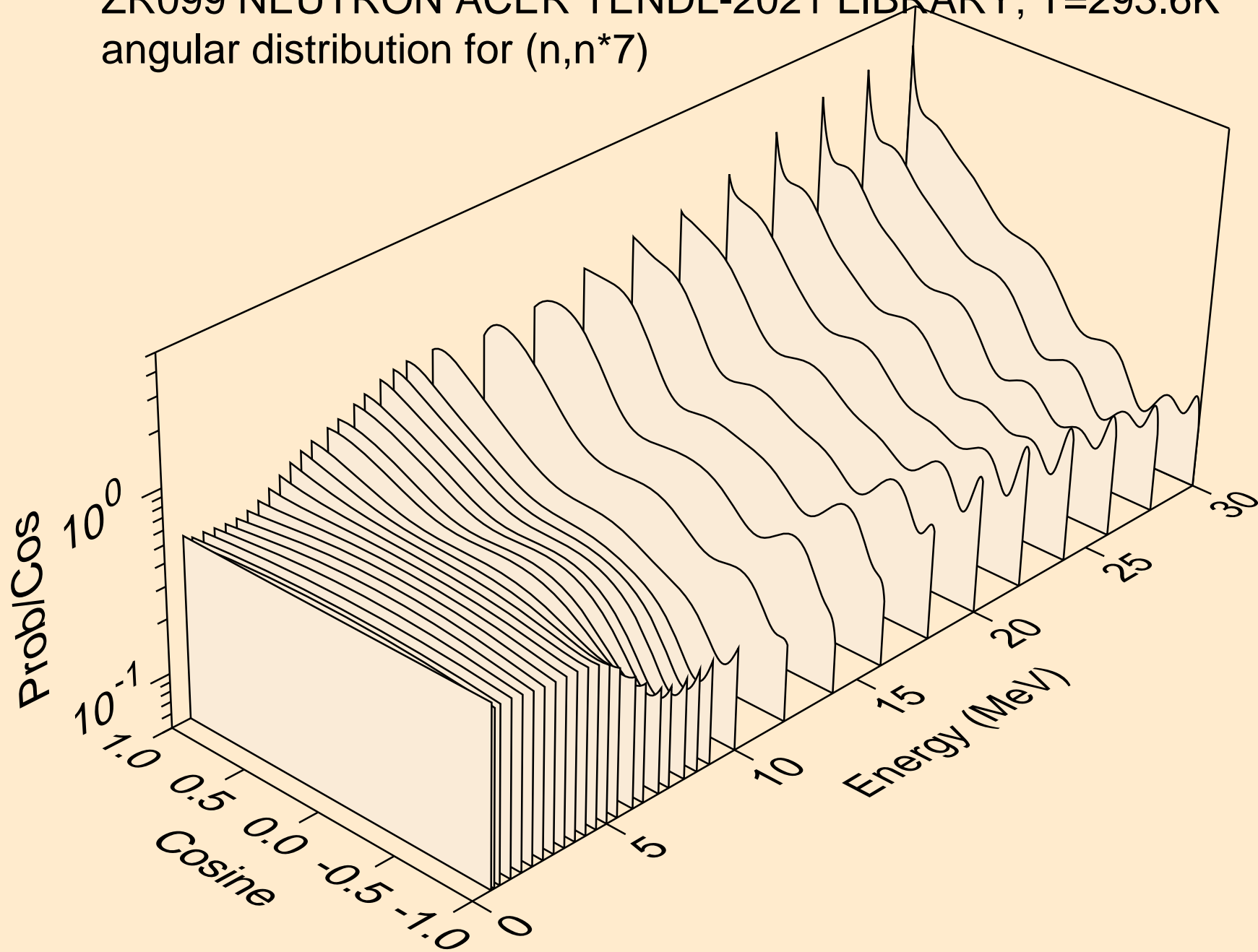
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angular distribution for (n,n\*5)



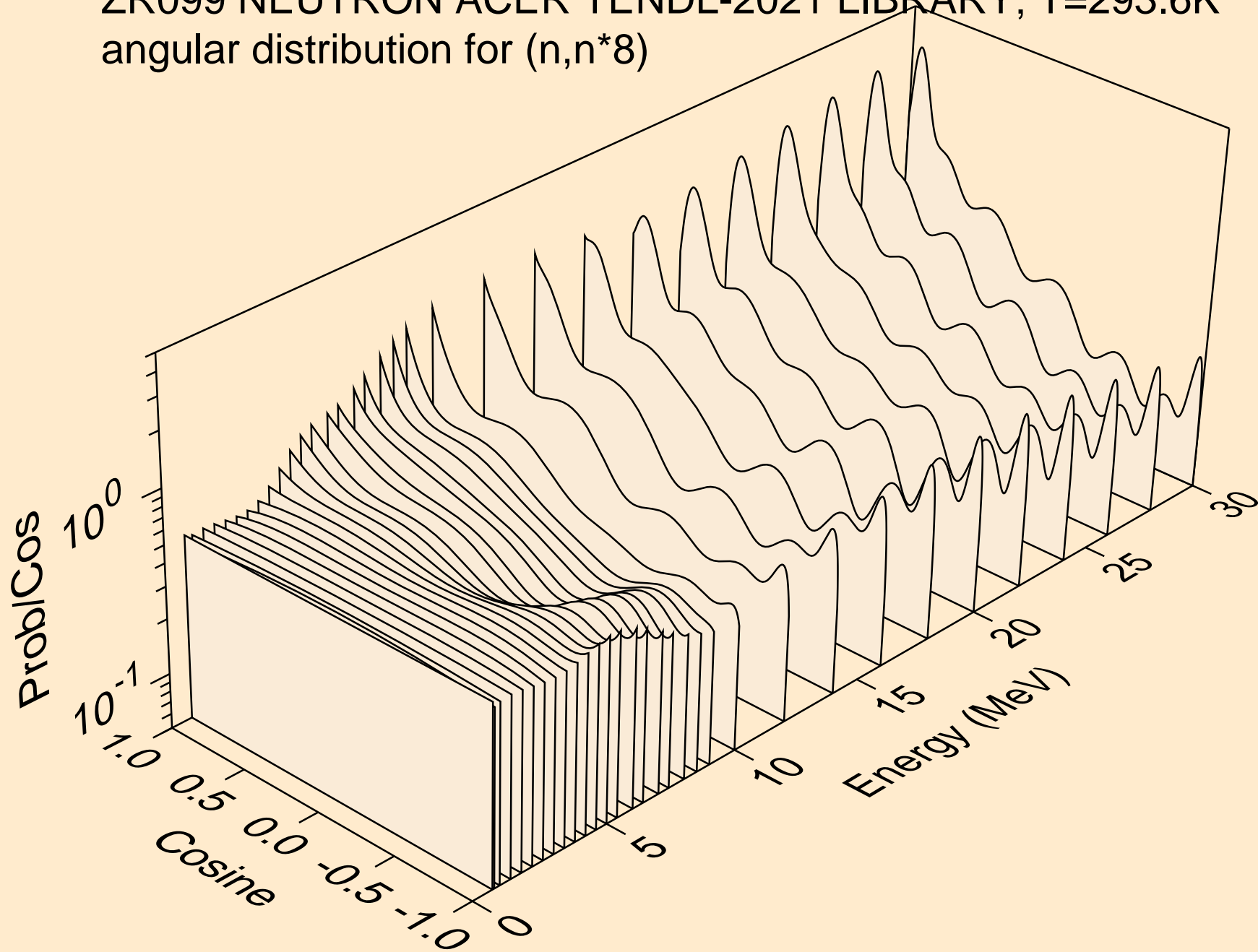
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angular distribution for (n,n\*6)



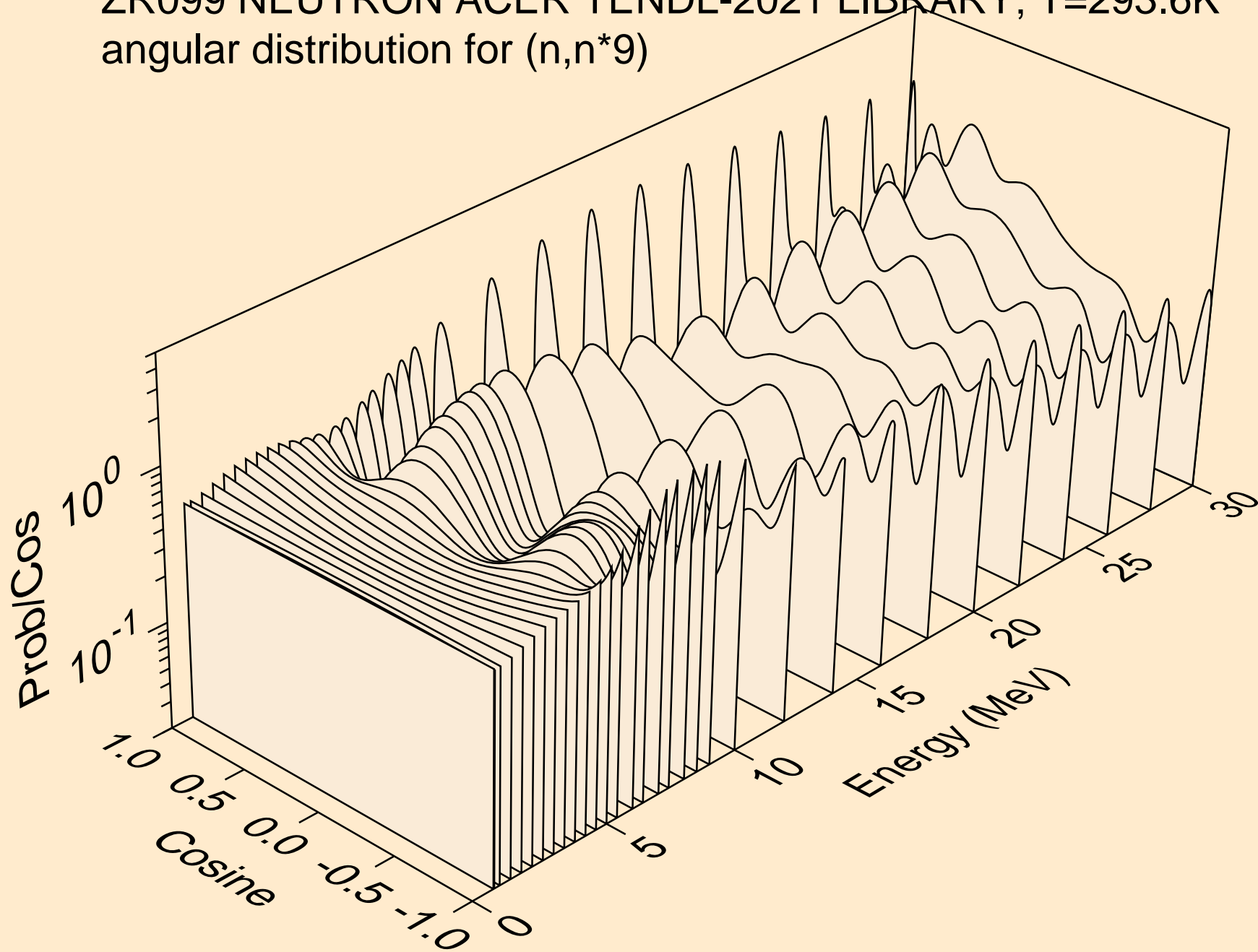
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angular distribution for (n,n\*7)



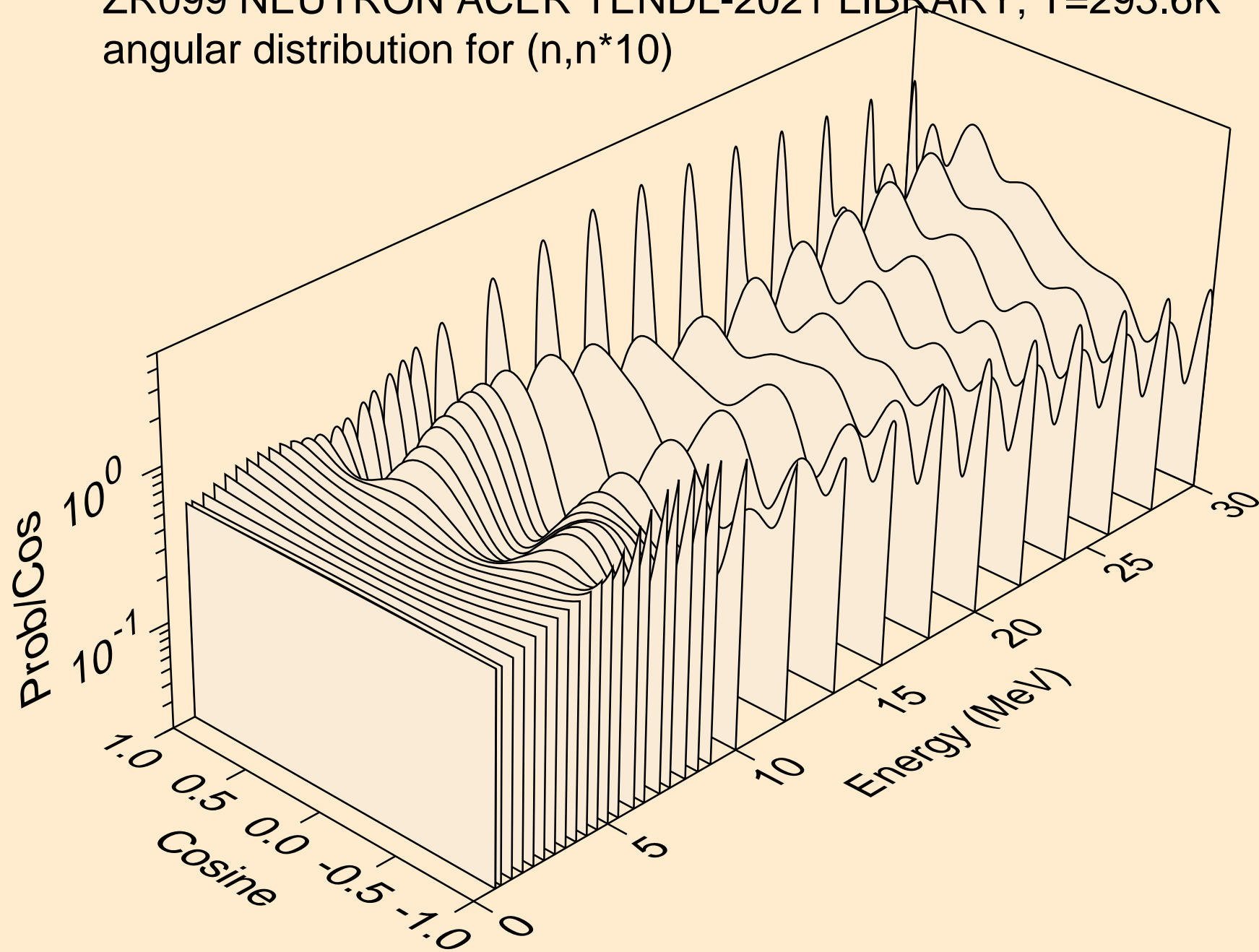
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angular distribution for (n,n\*8)



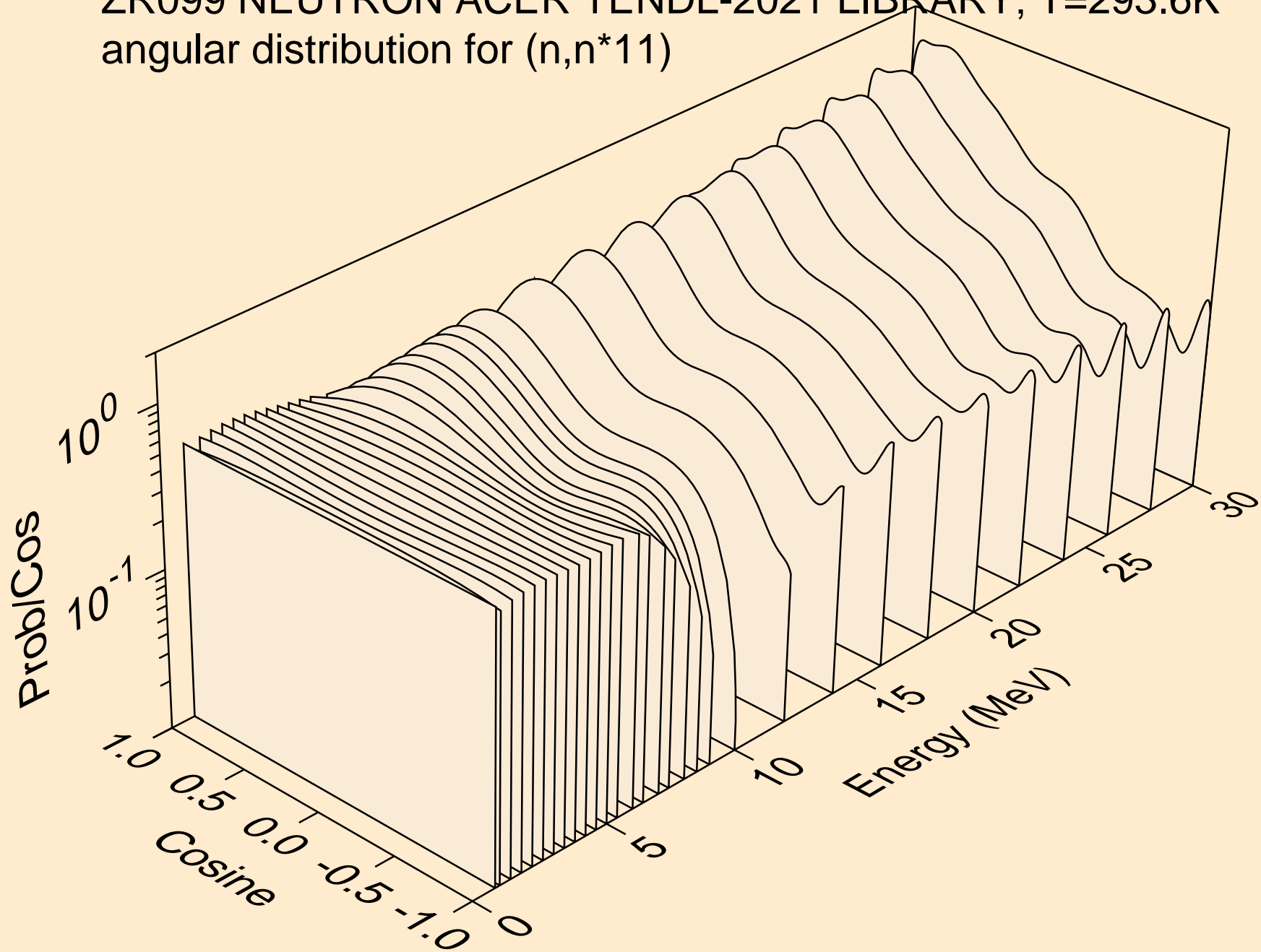
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angular distribution for (n,n\*9)



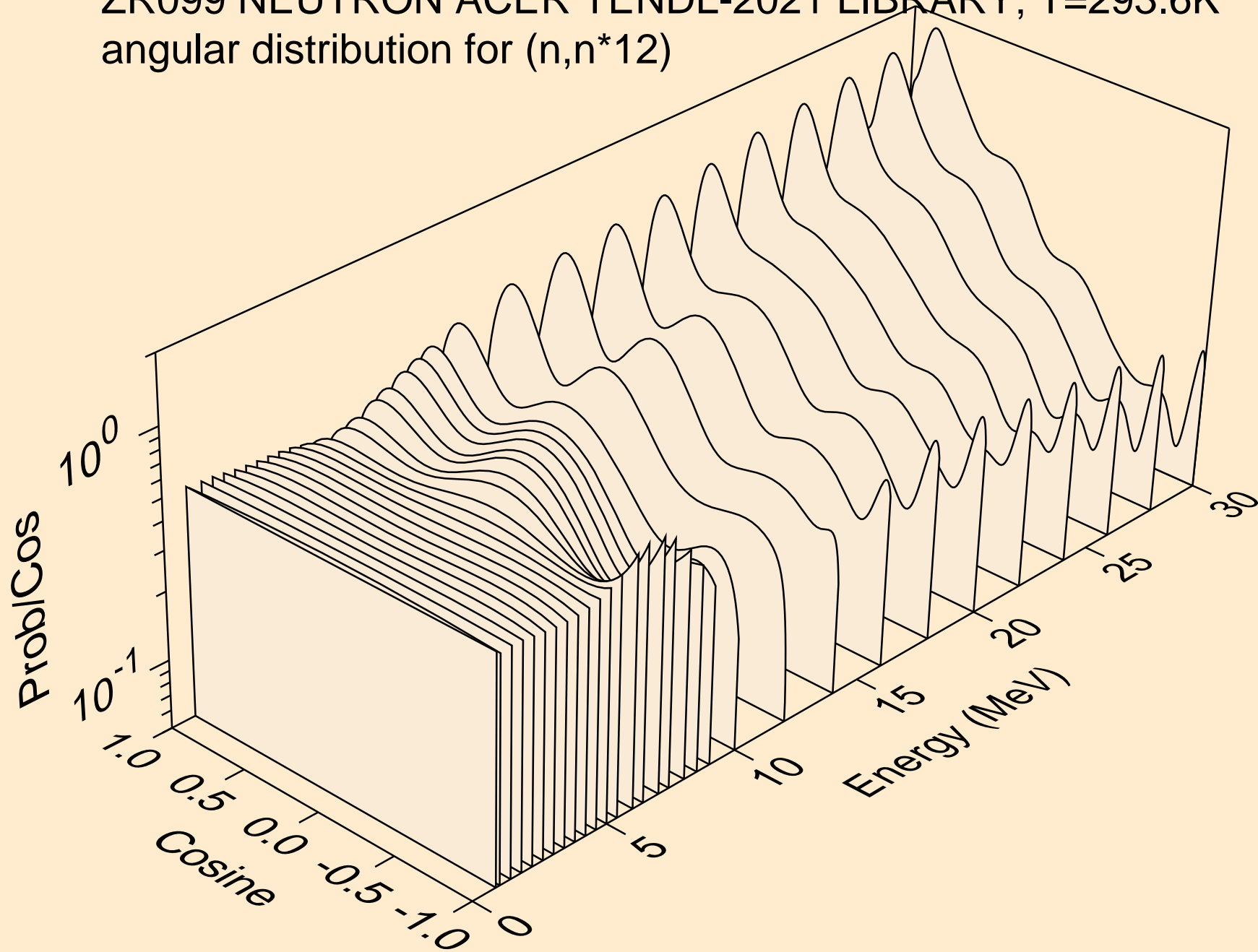
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)

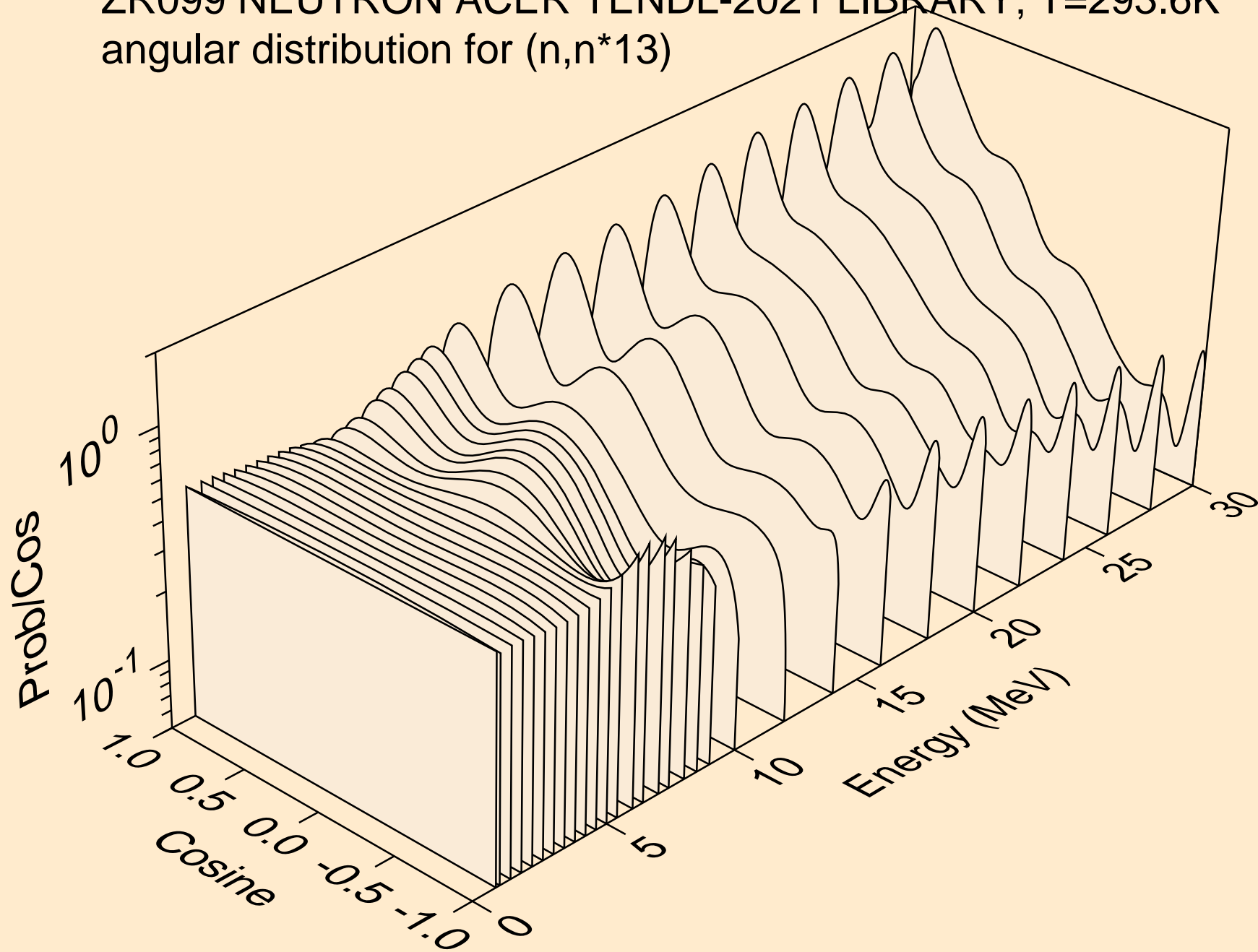


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angular distribution for (n,n\*12)

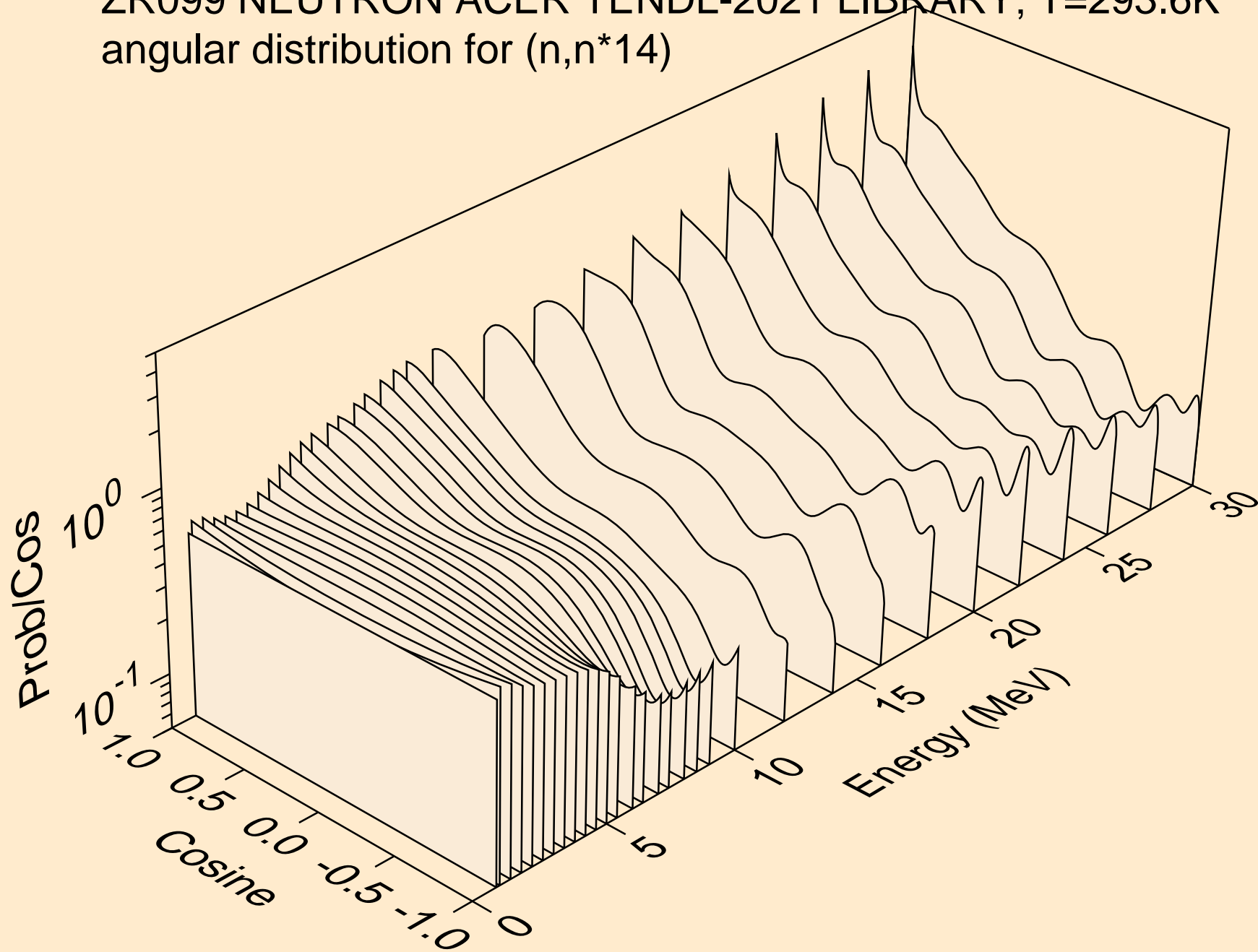




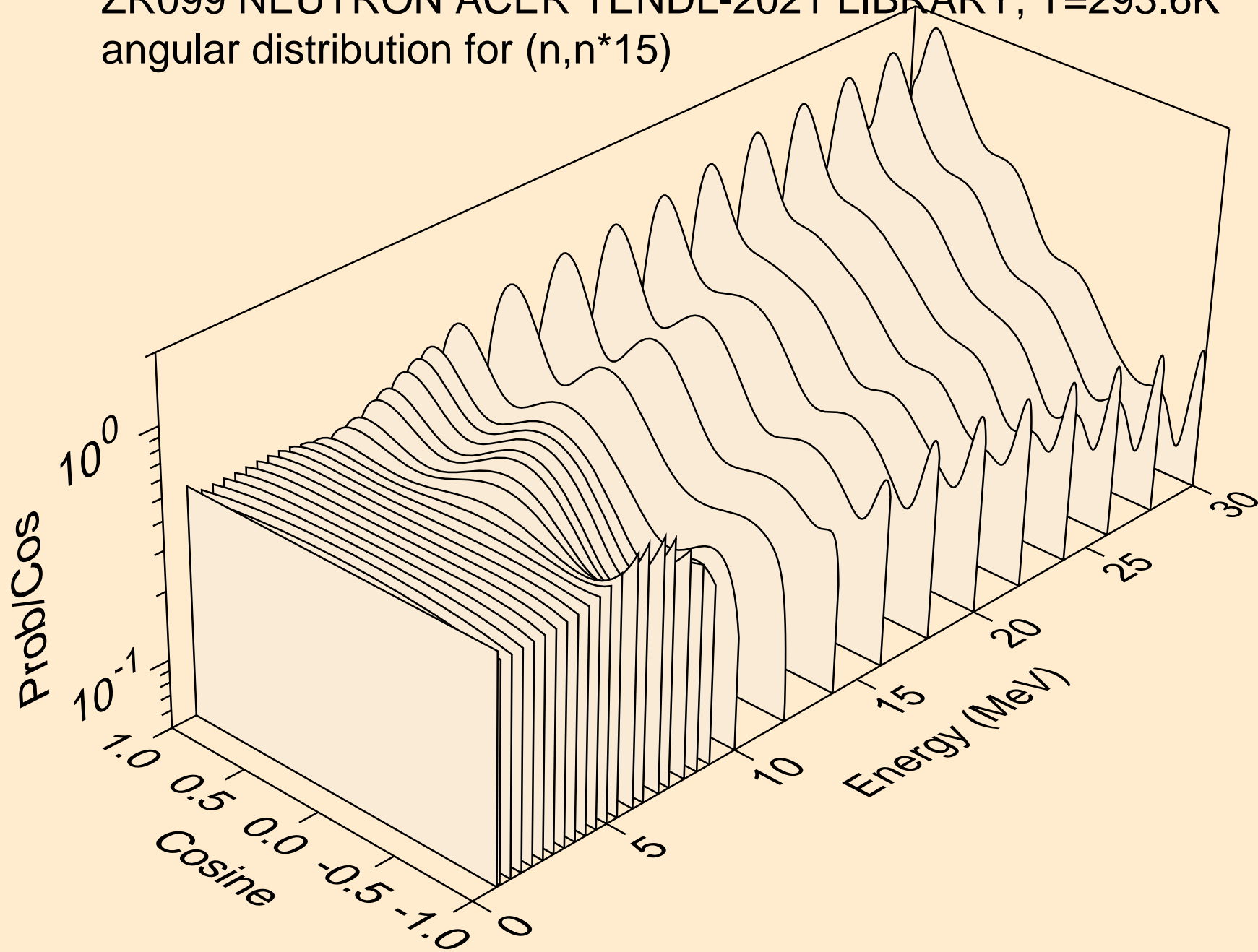
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angular distribution for (n,n\*13)



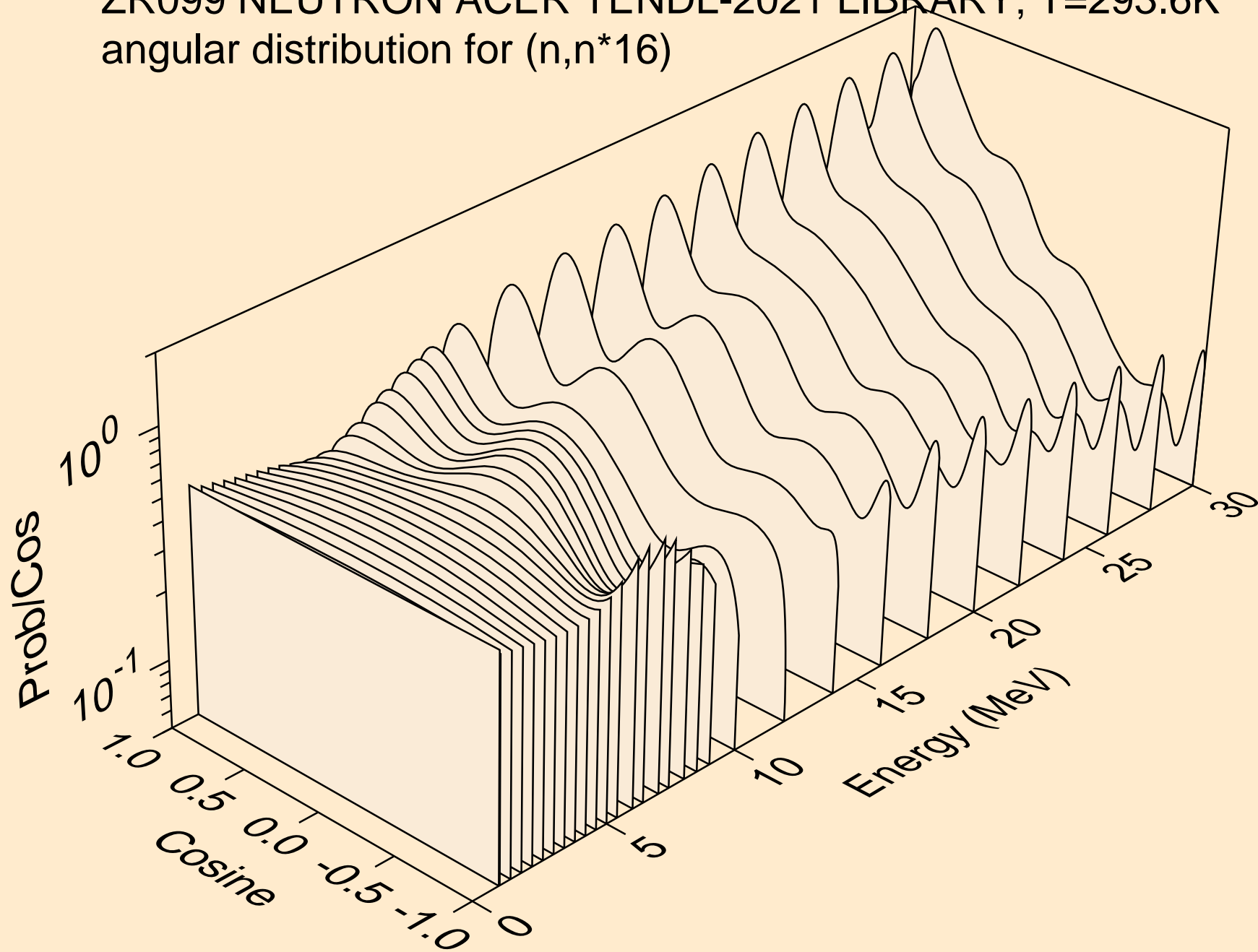
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angular distribution for (n,n\*14)



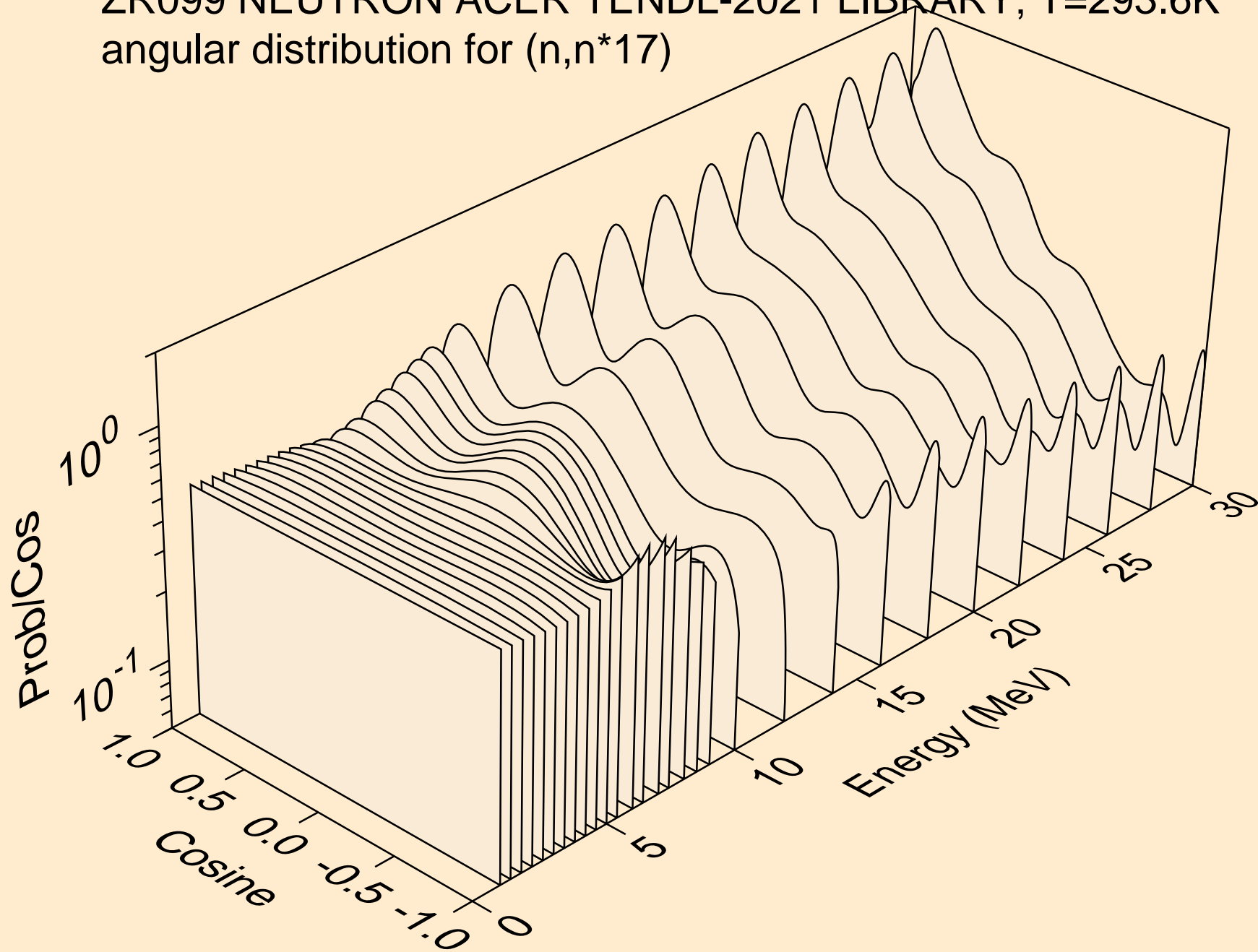
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angular distribution for (n,n\*15)



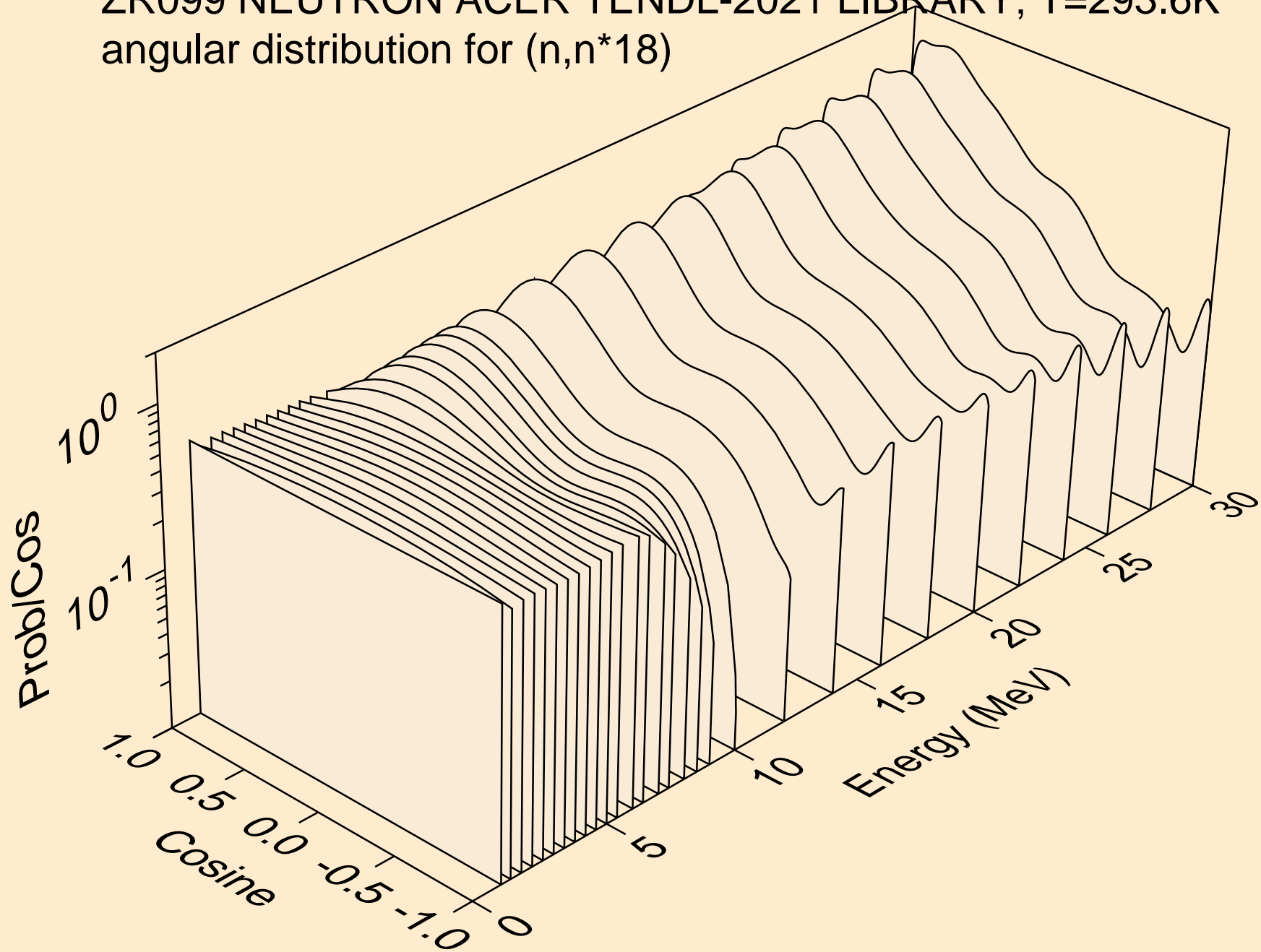
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angular distribution for (n,n\*16)



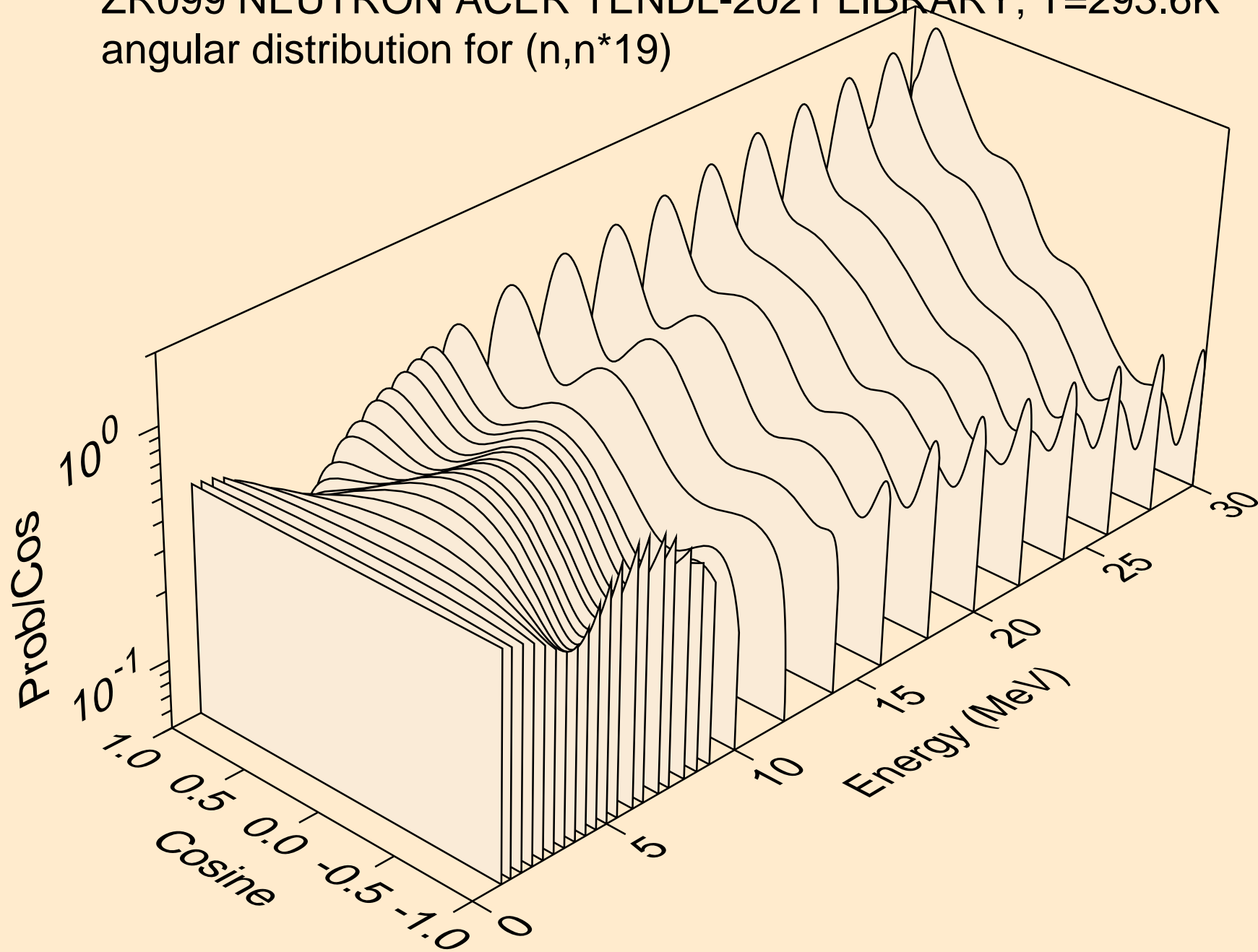
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angular distribution for (n,n\*17)



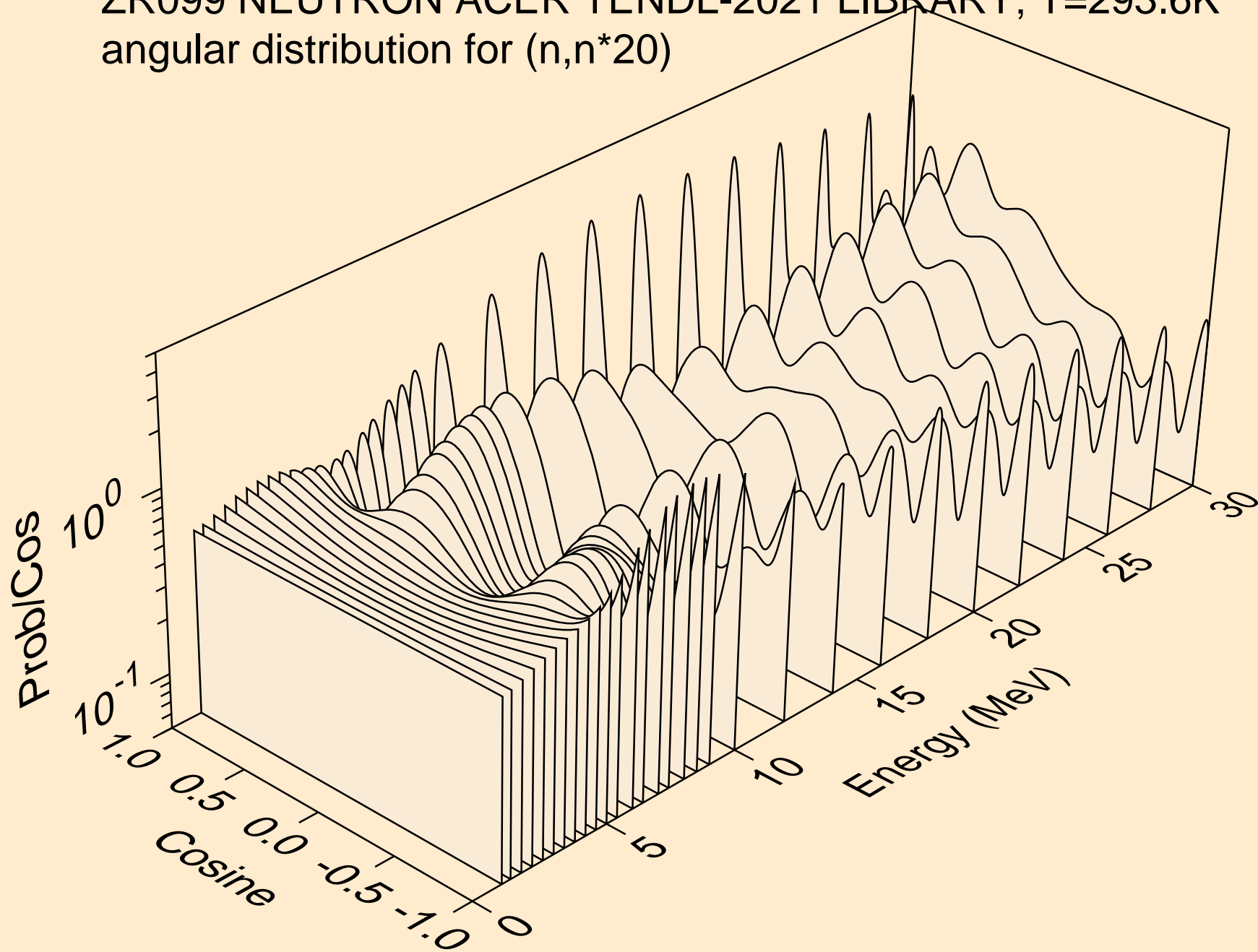
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*19)

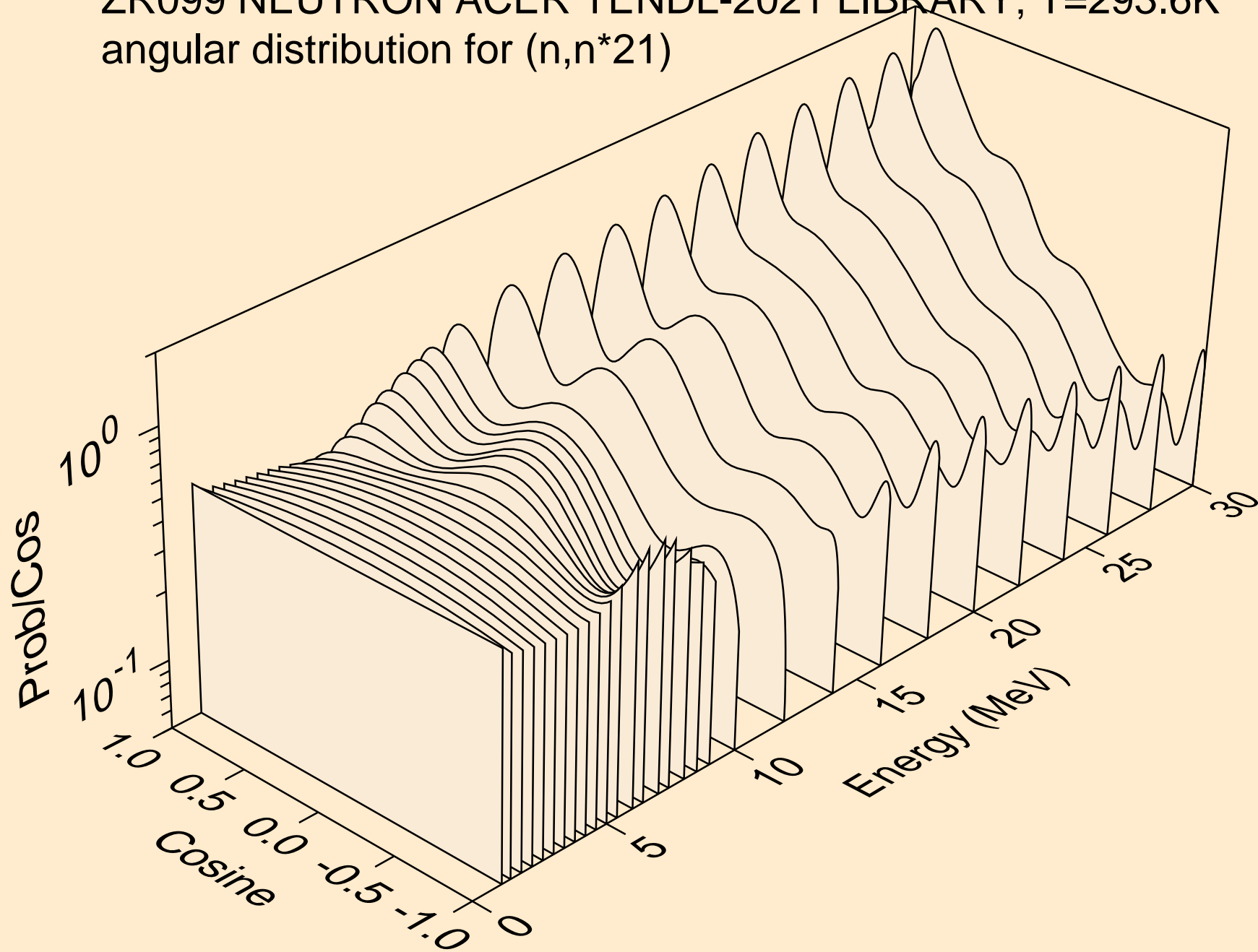


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*20)

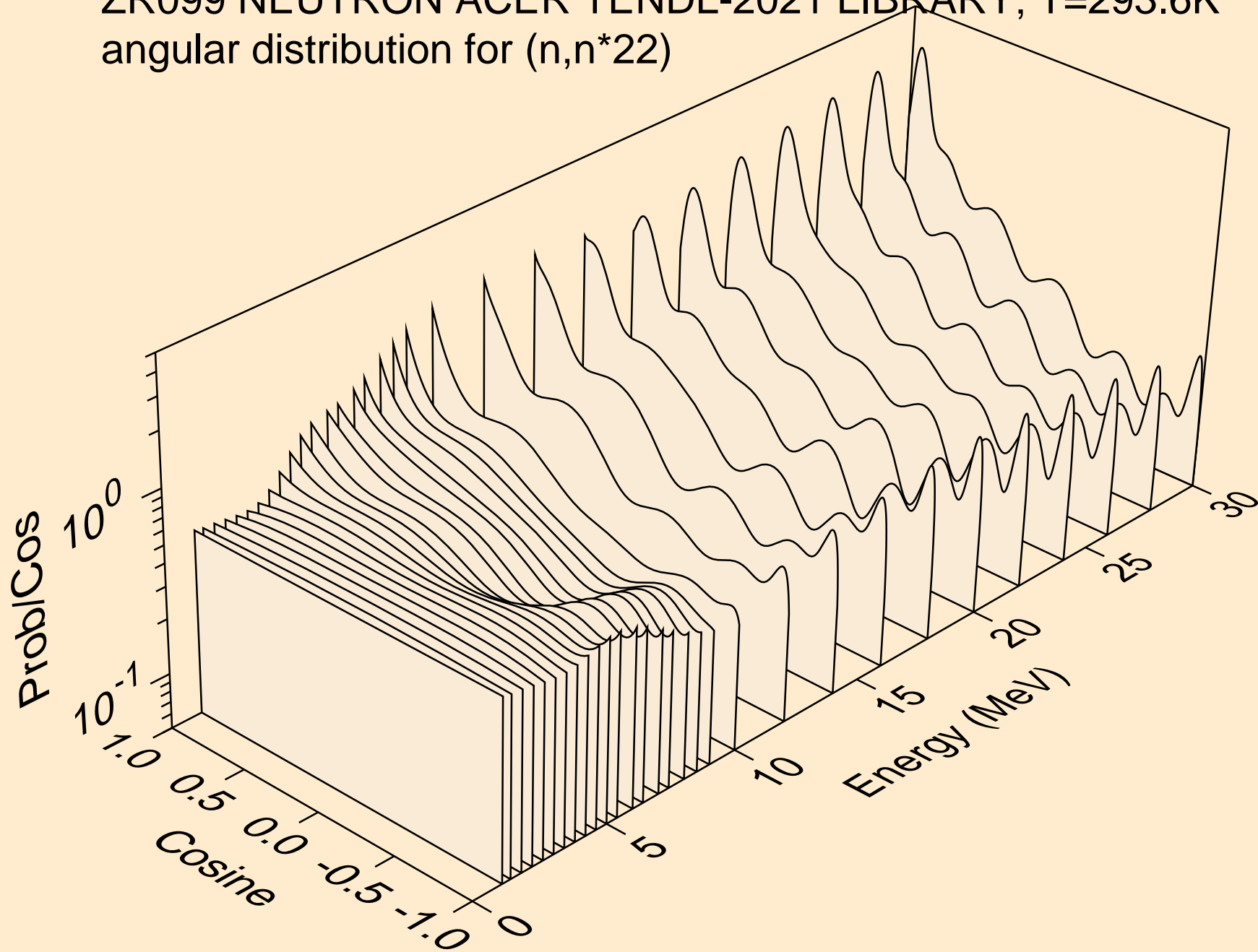




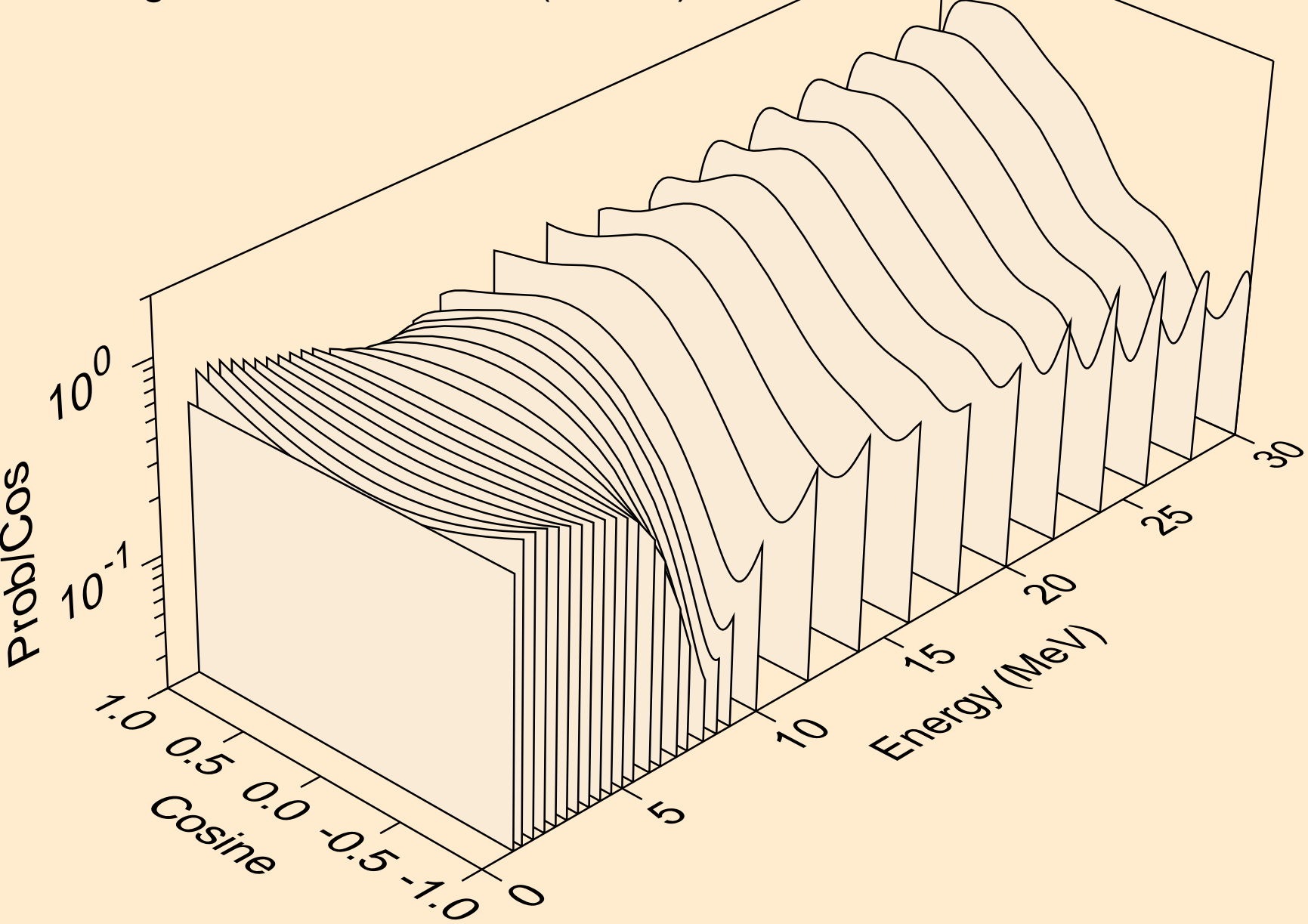
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angular distribution for (n,n\*21)



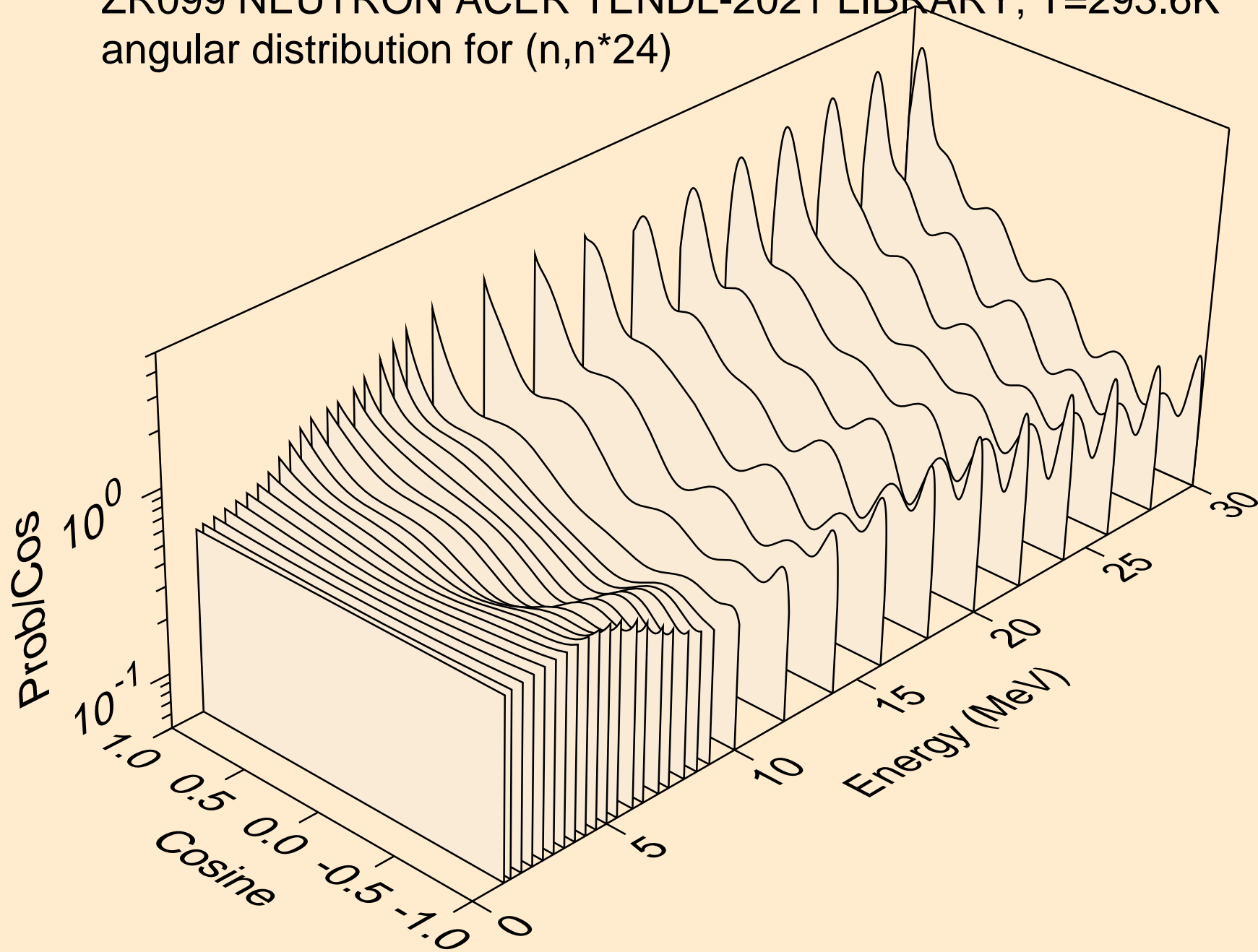
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angular distribution for (n,n\*22)



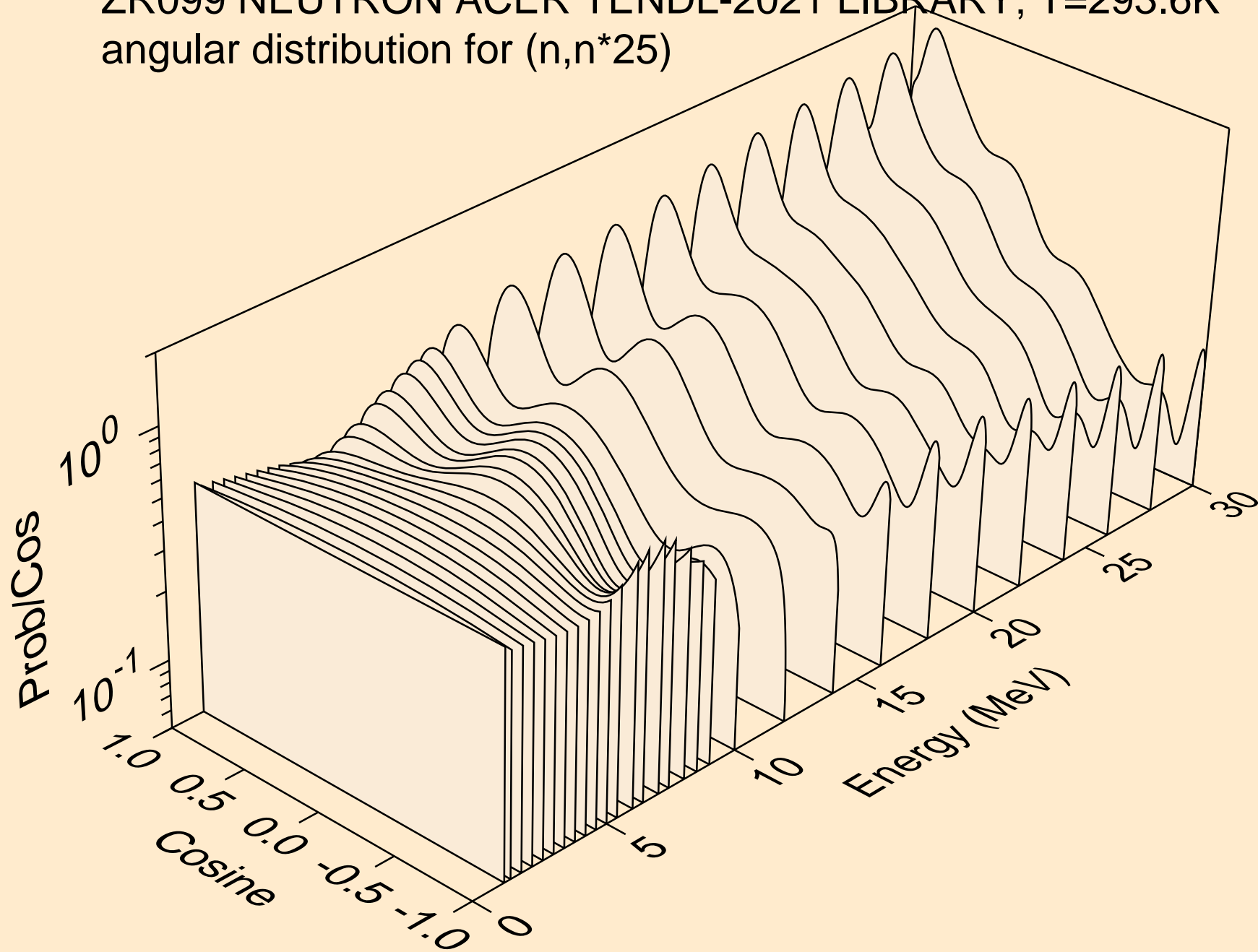
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angular distribution for (n,n\*23)



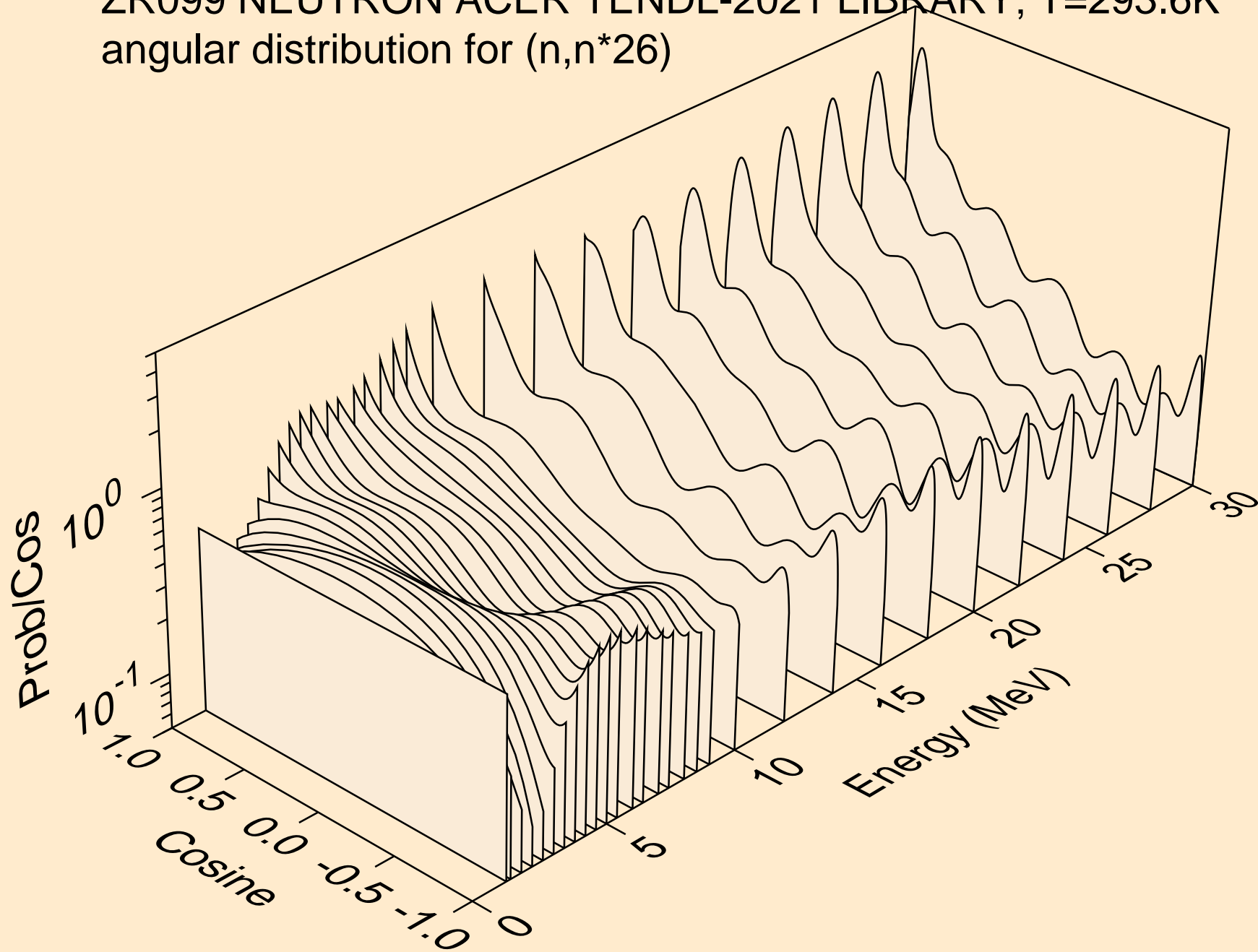
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angular distribution for (n,n\*24)



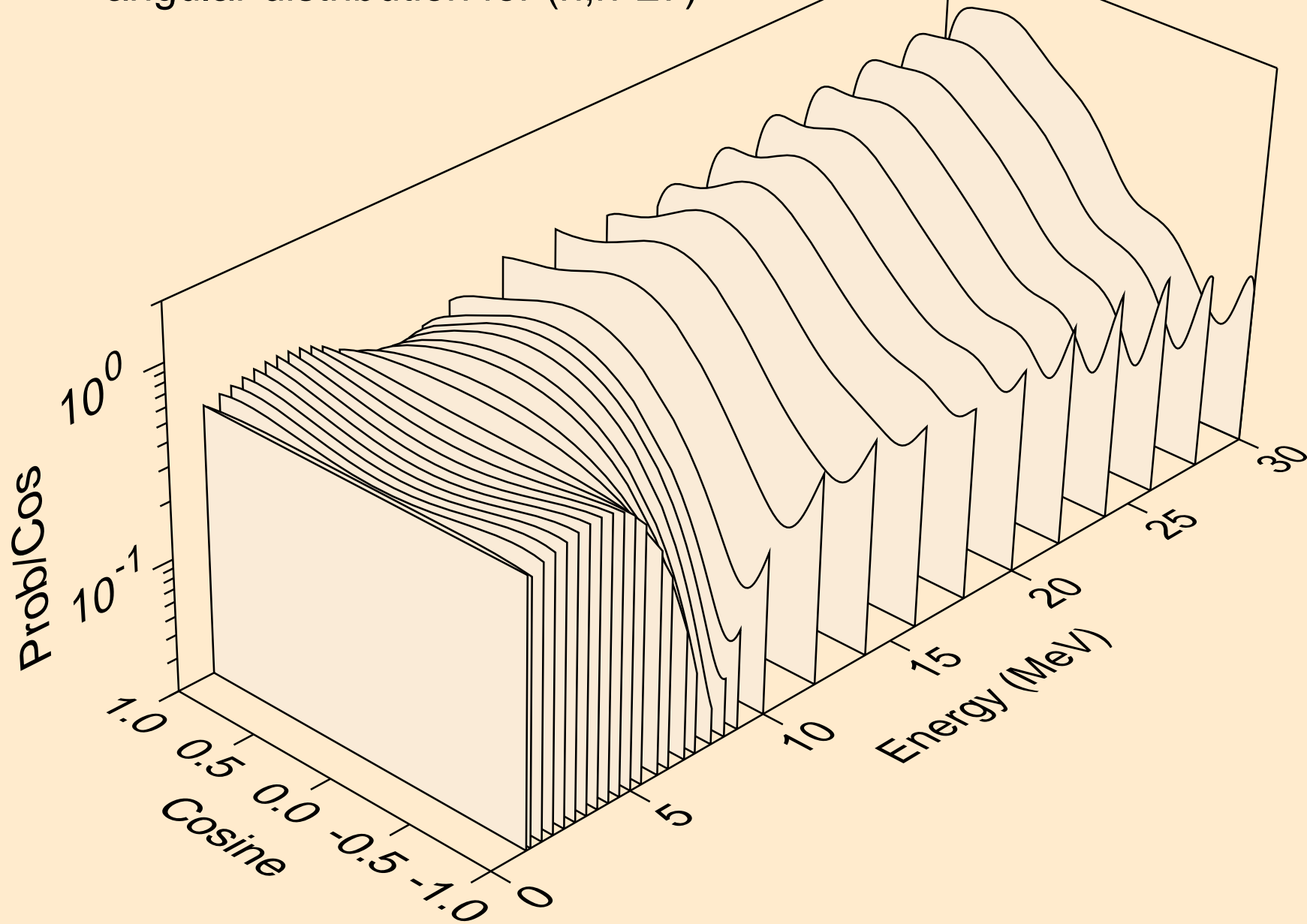
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angular distribution for (n,n\*25)



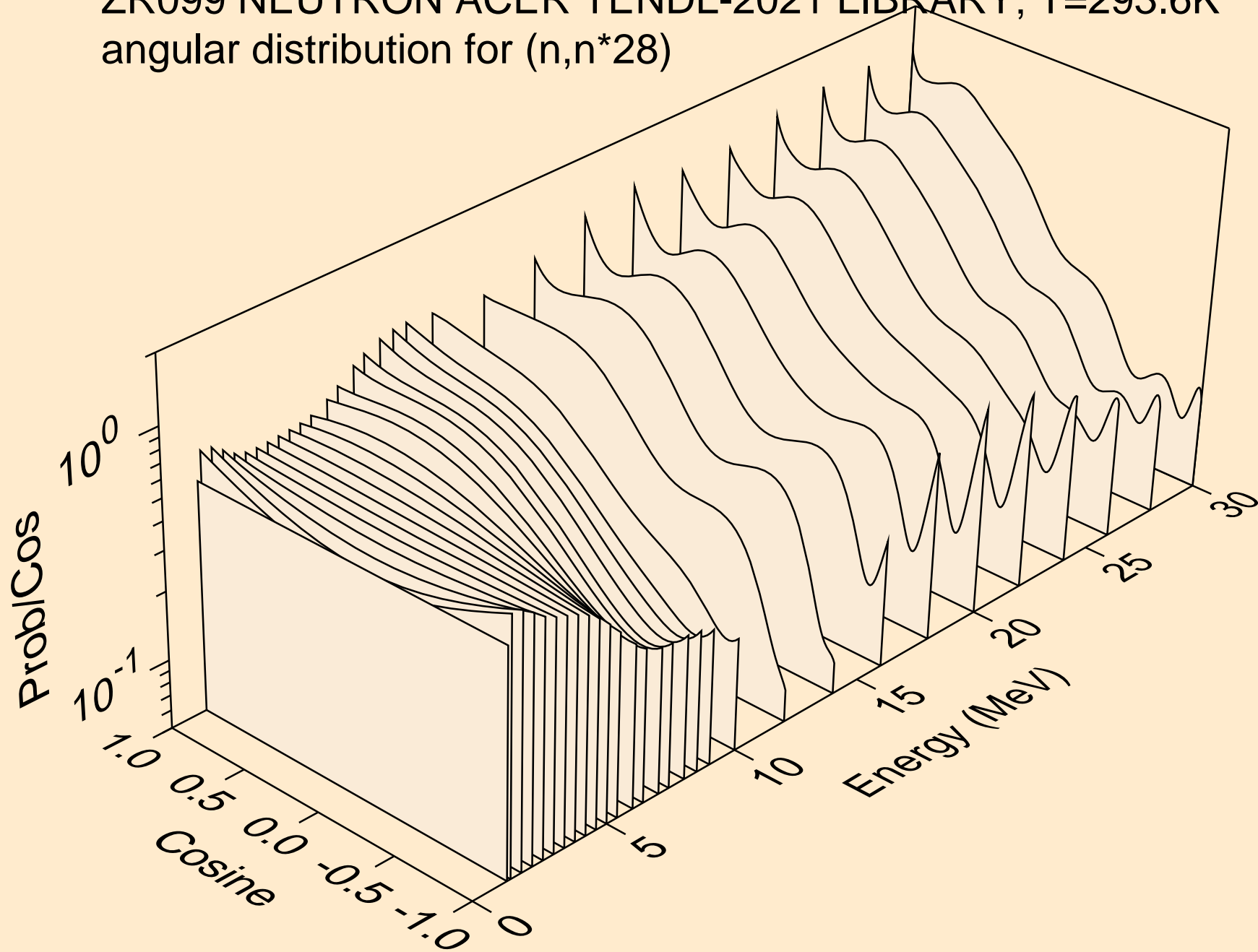
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)

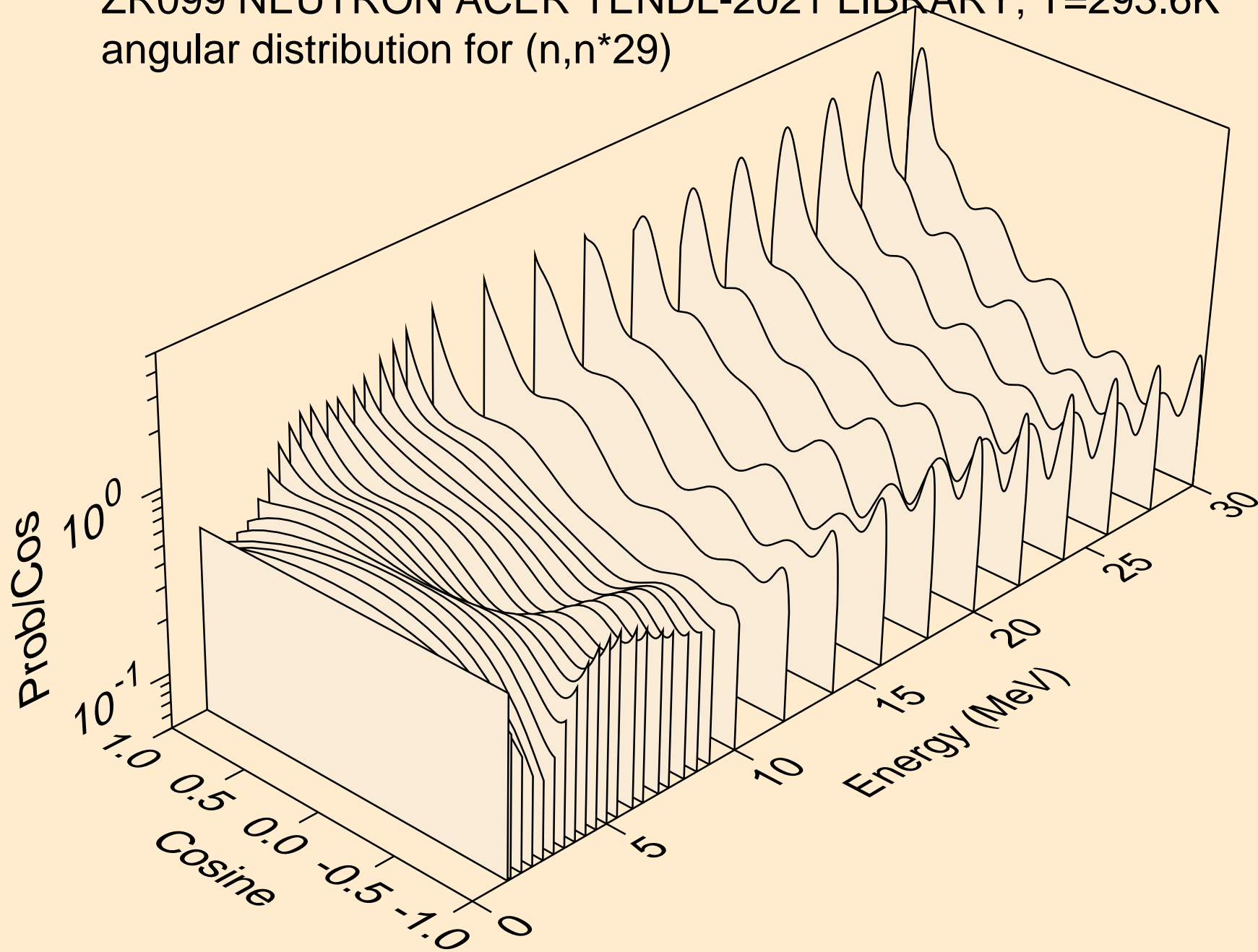


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)

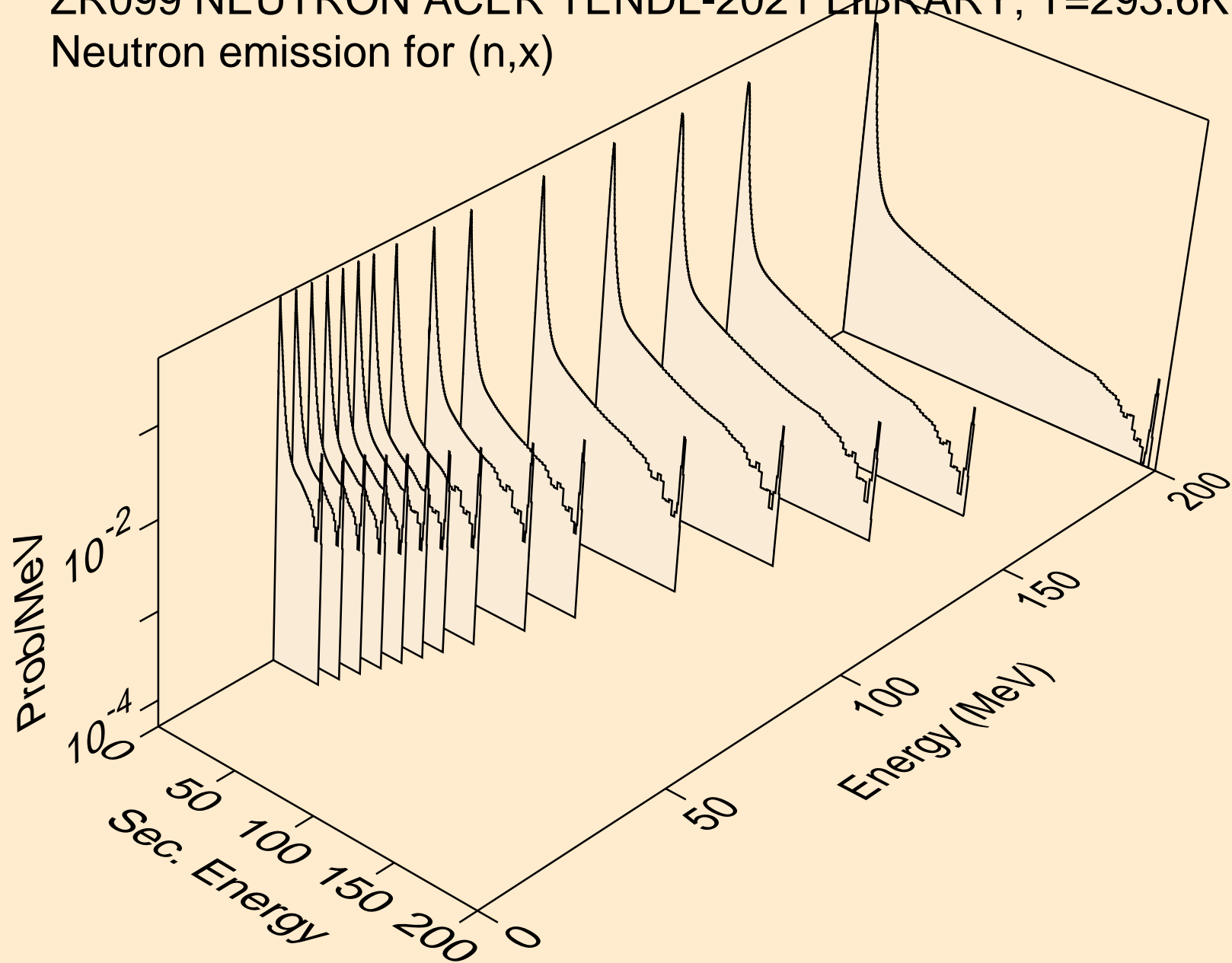




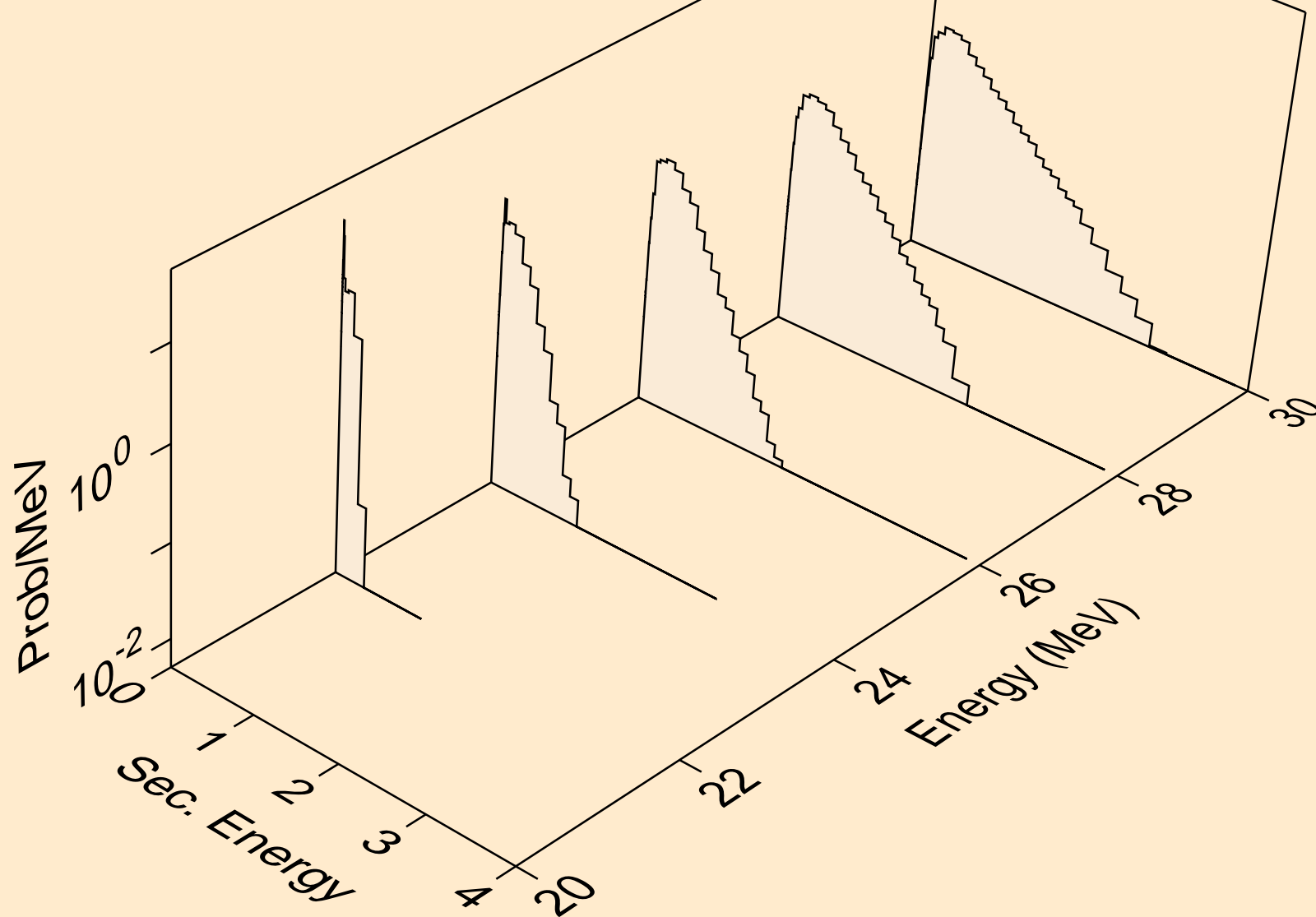
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angular distribution for (n,n\*29)



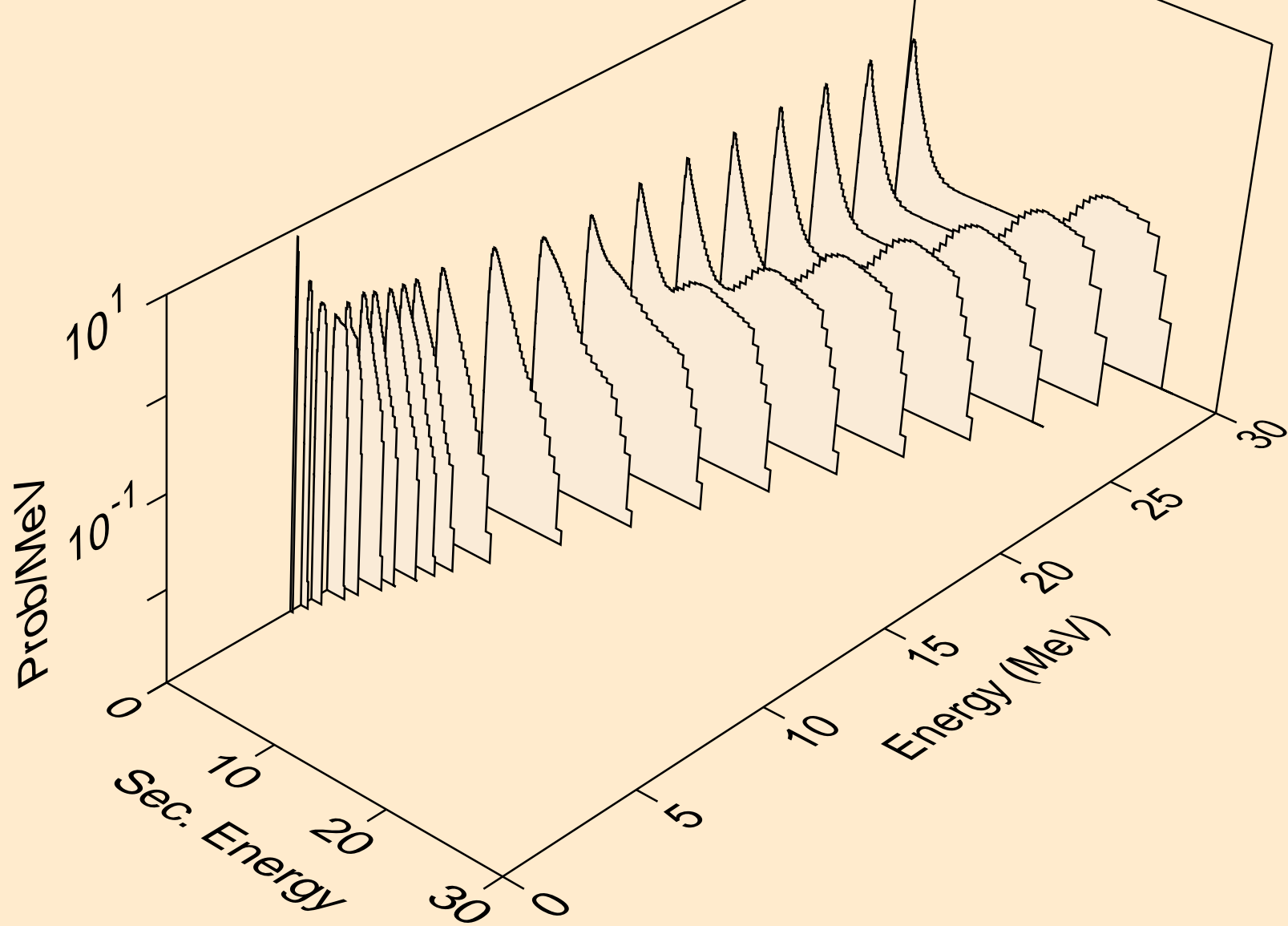
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



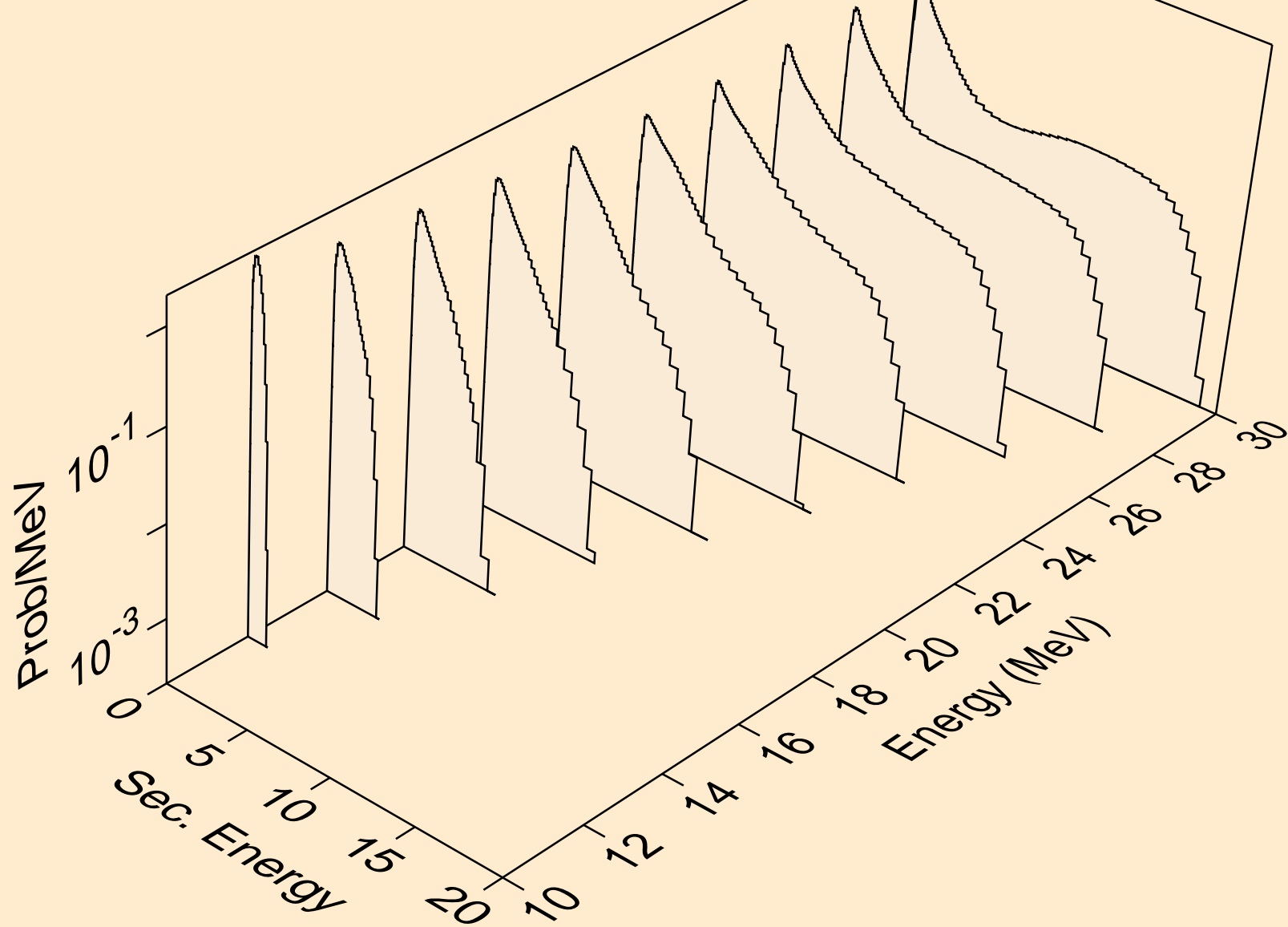
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



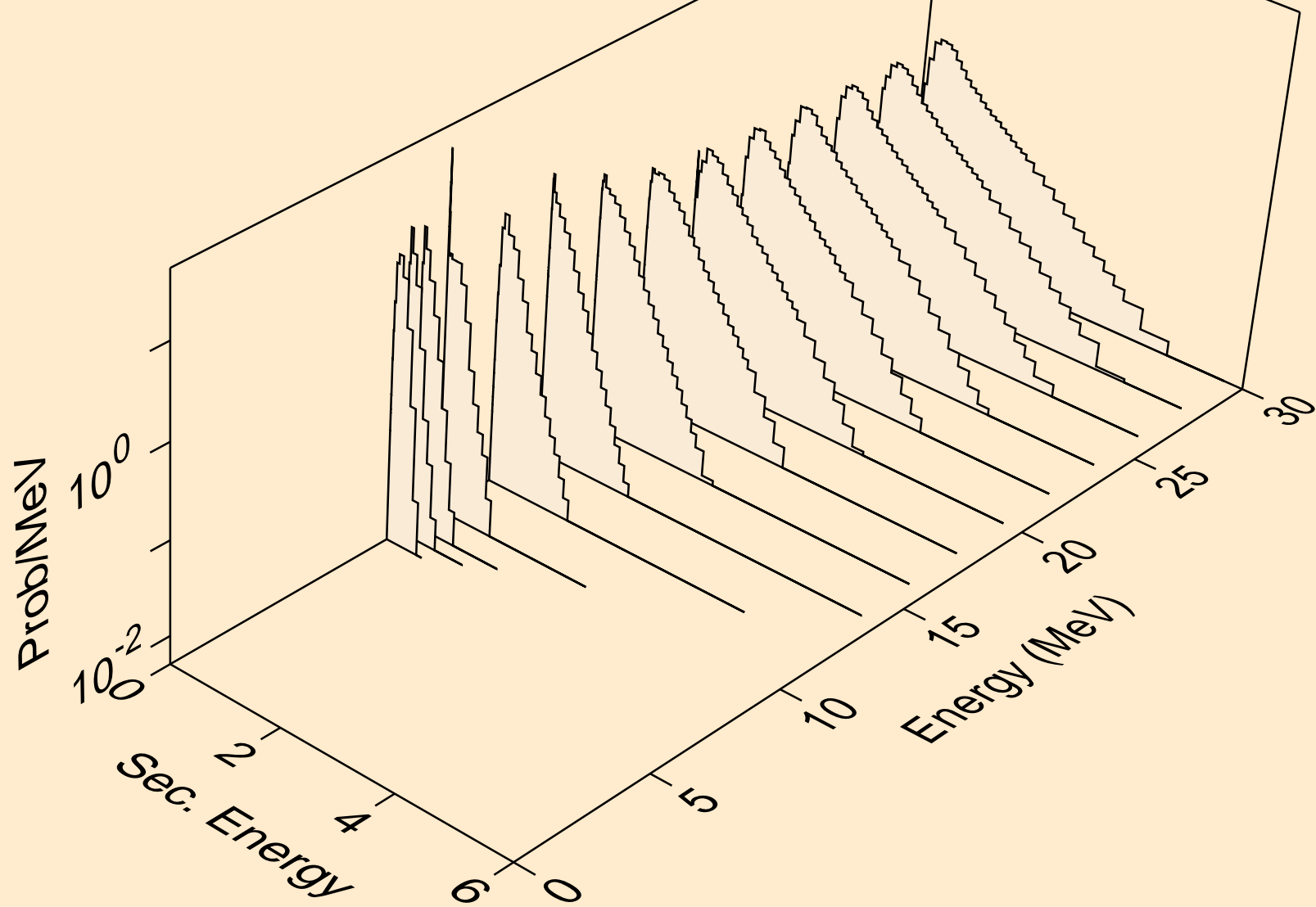
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



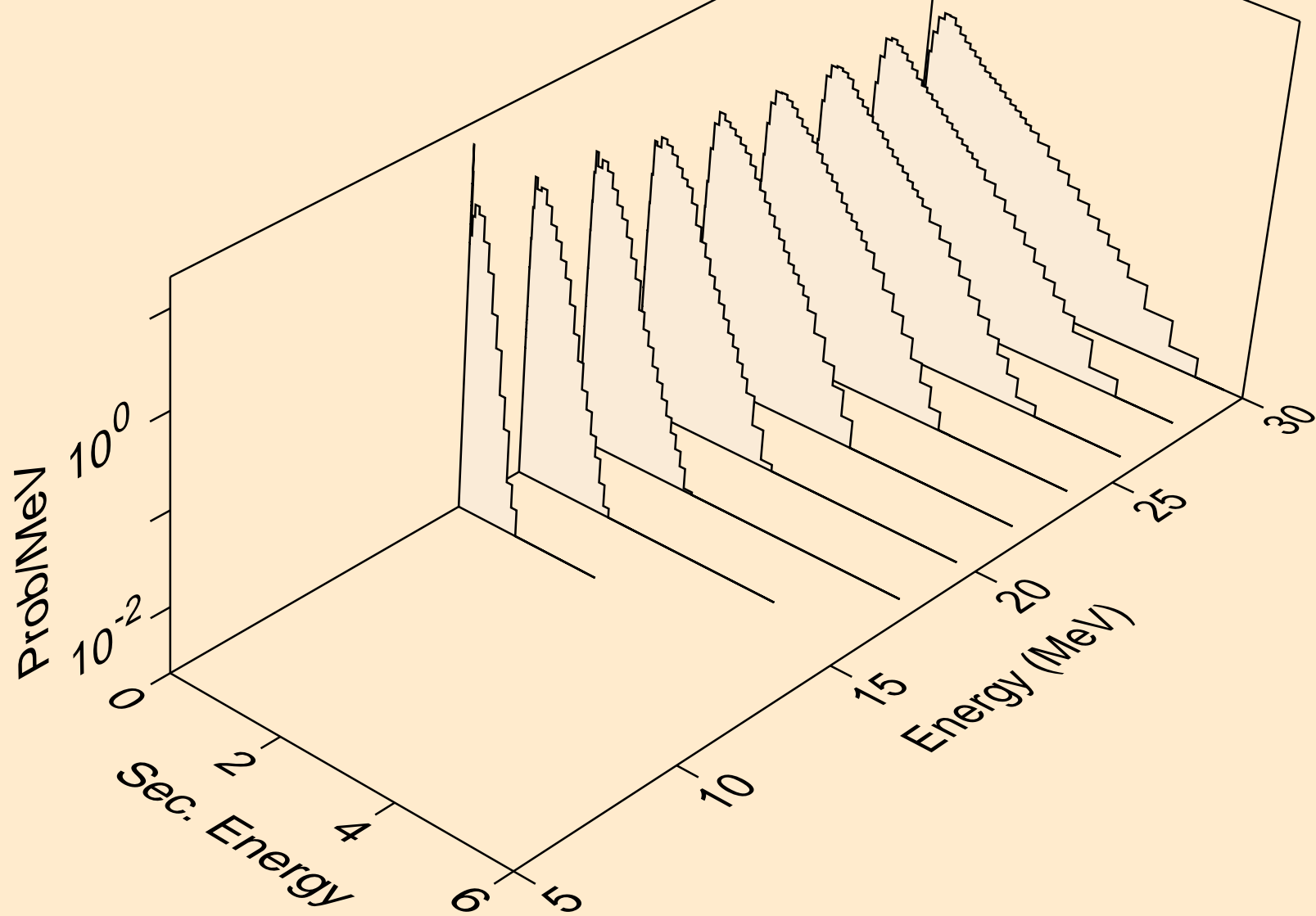
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



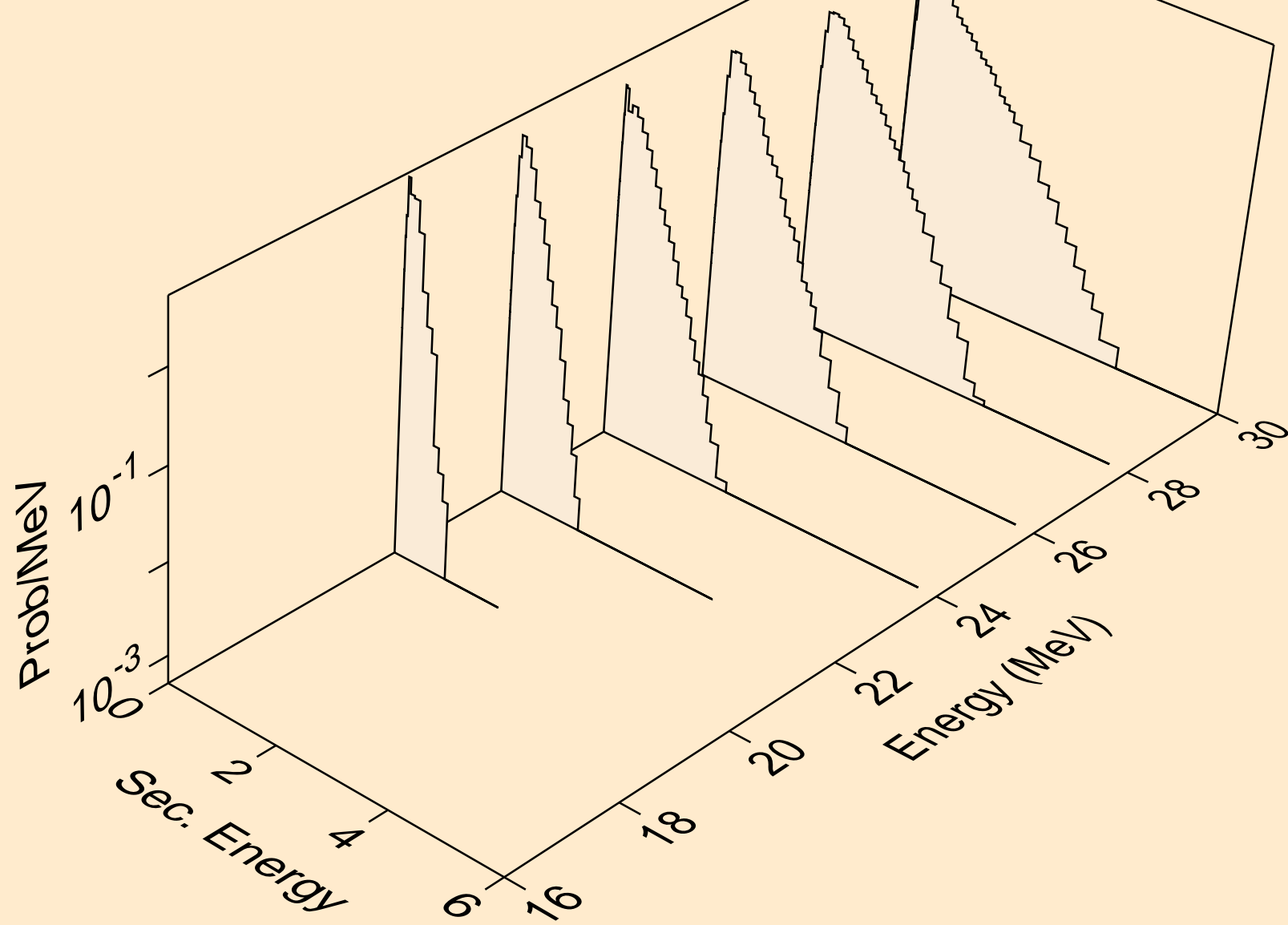
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>

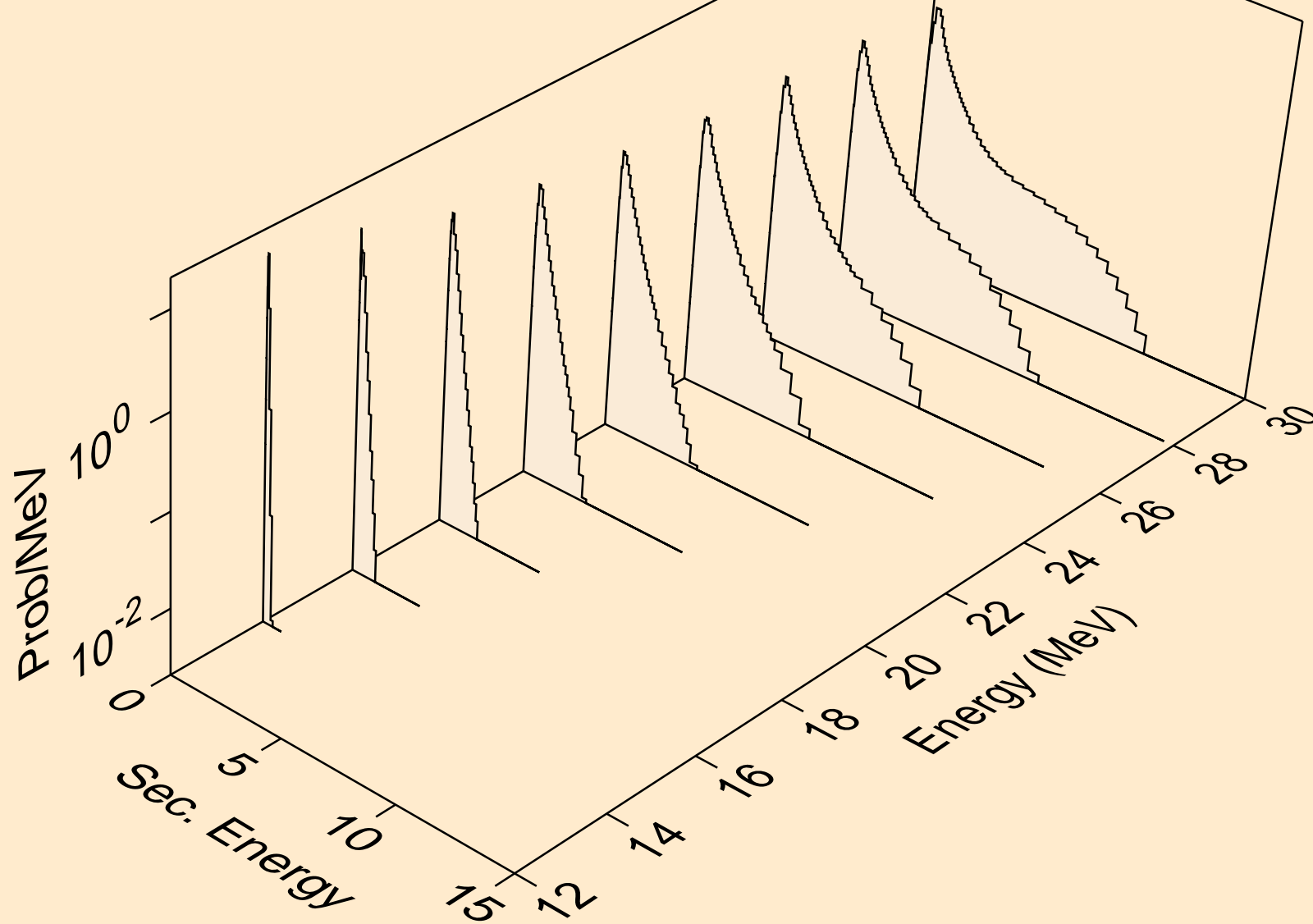


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a

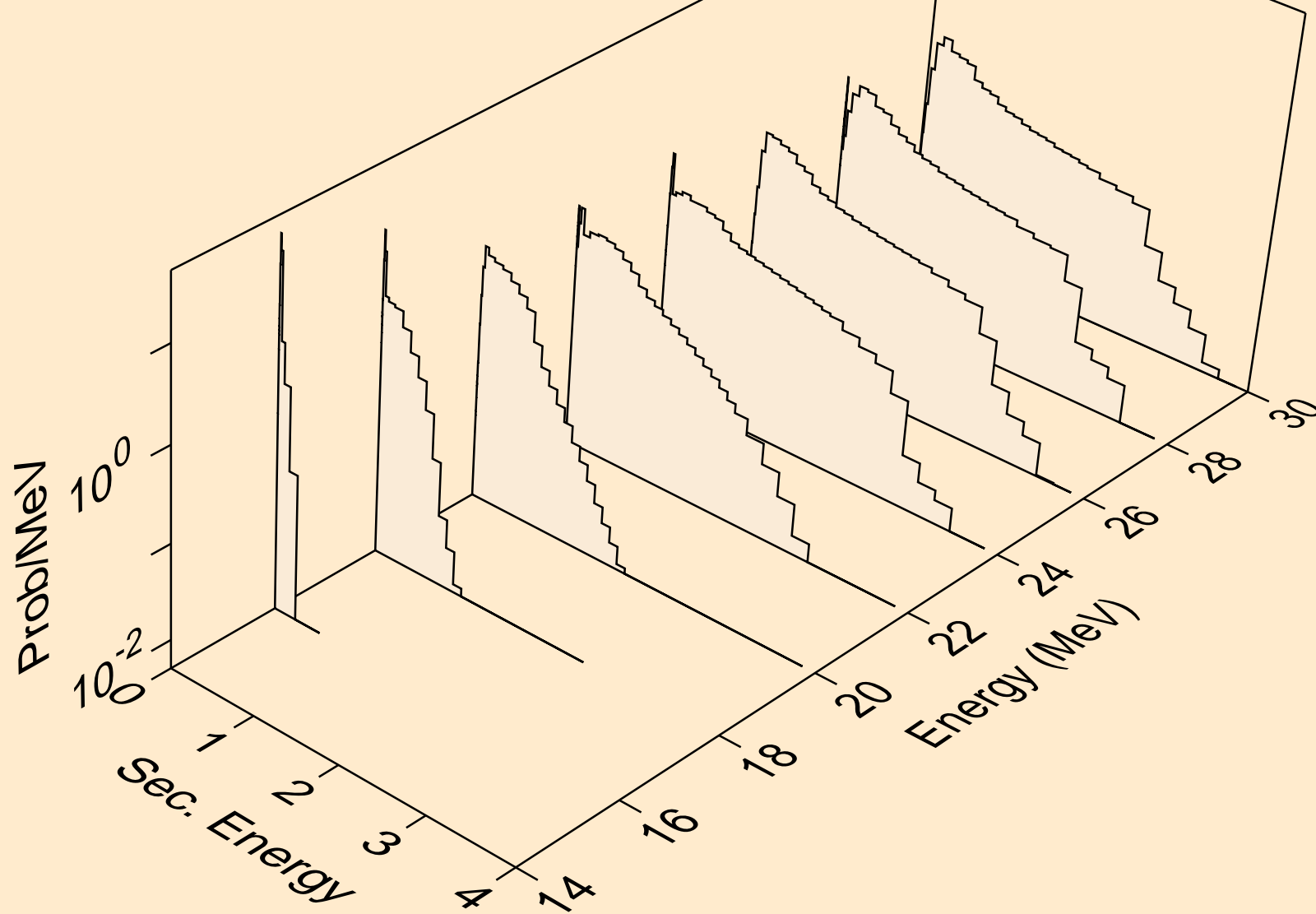




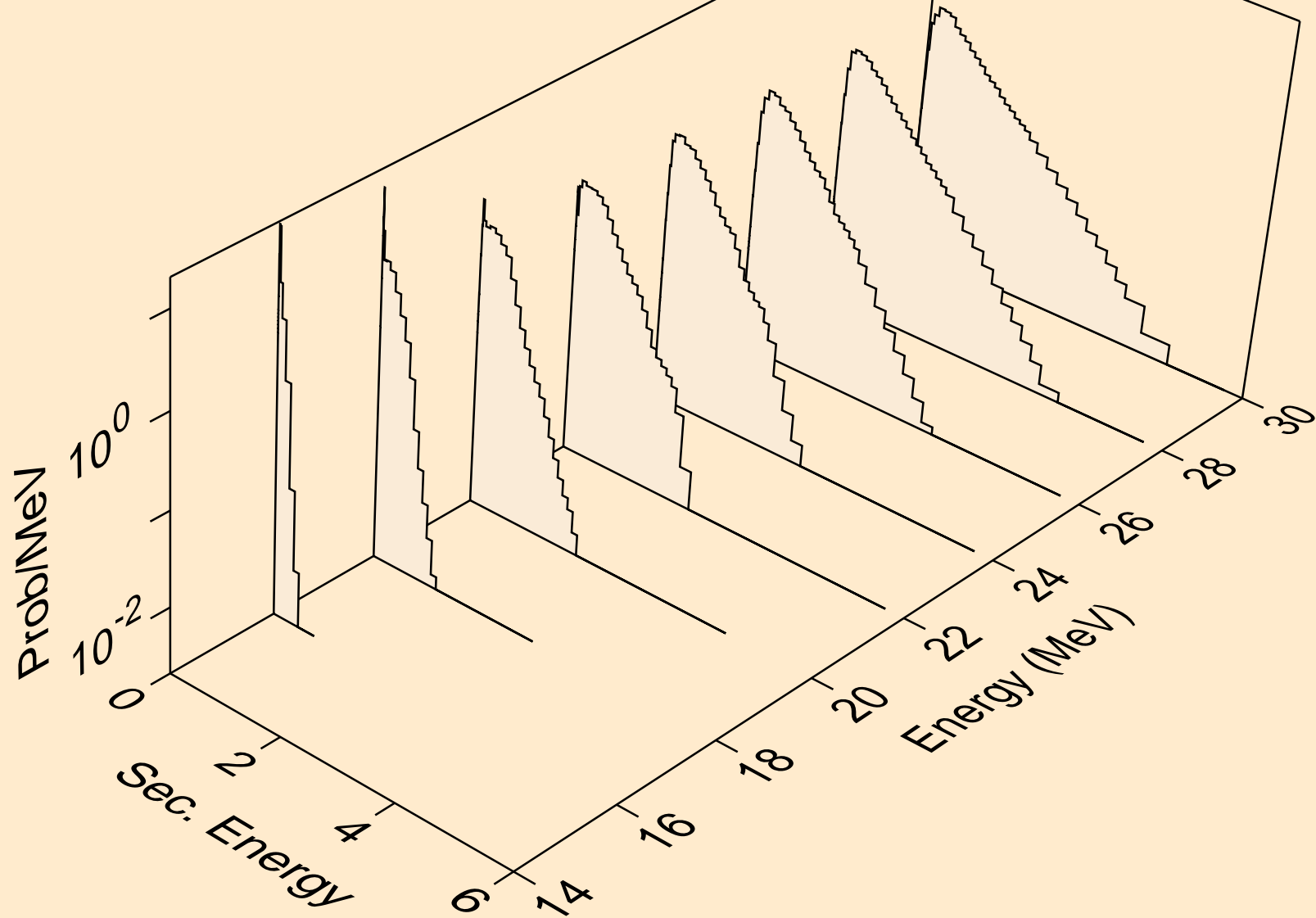
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



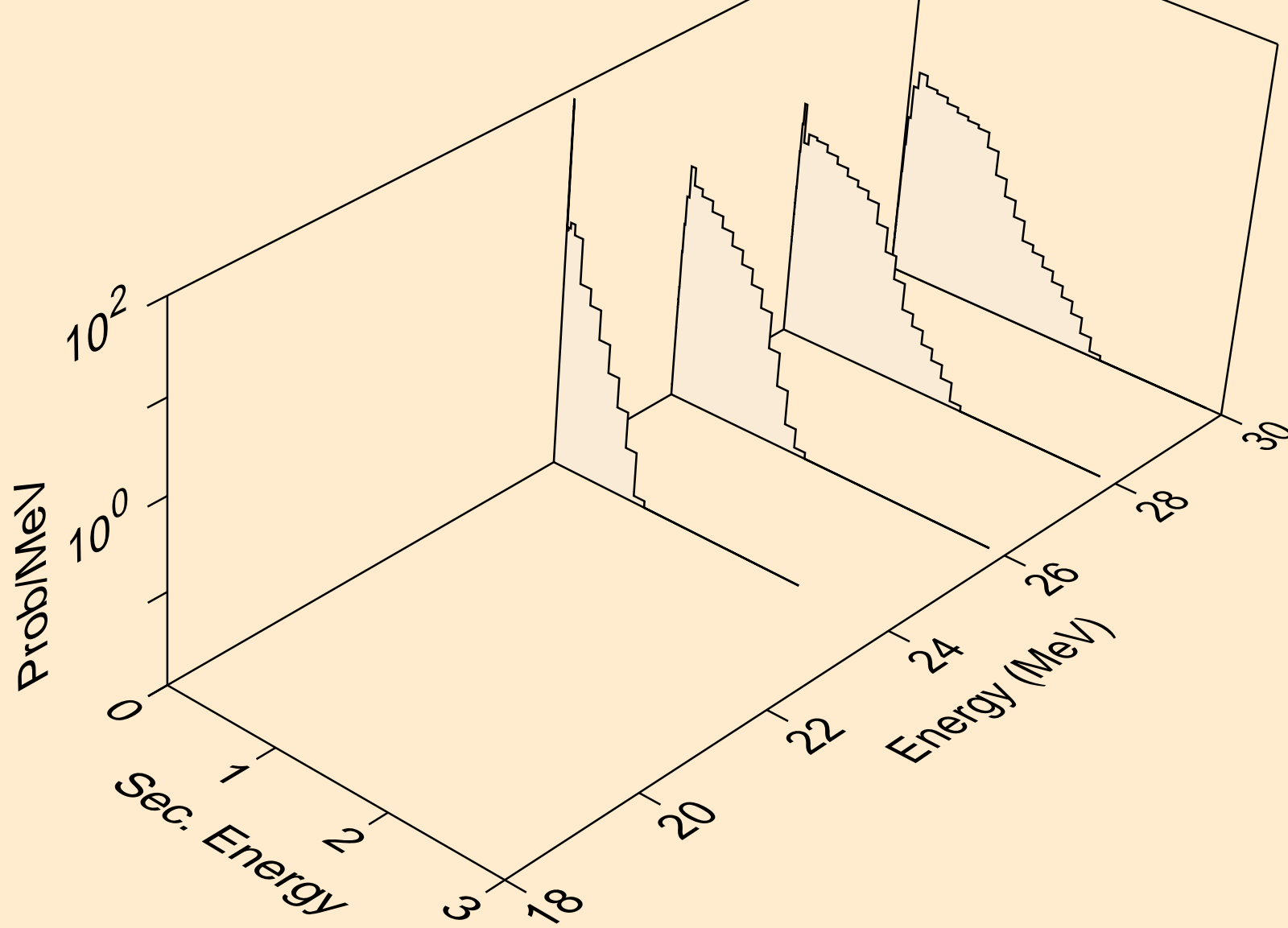
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



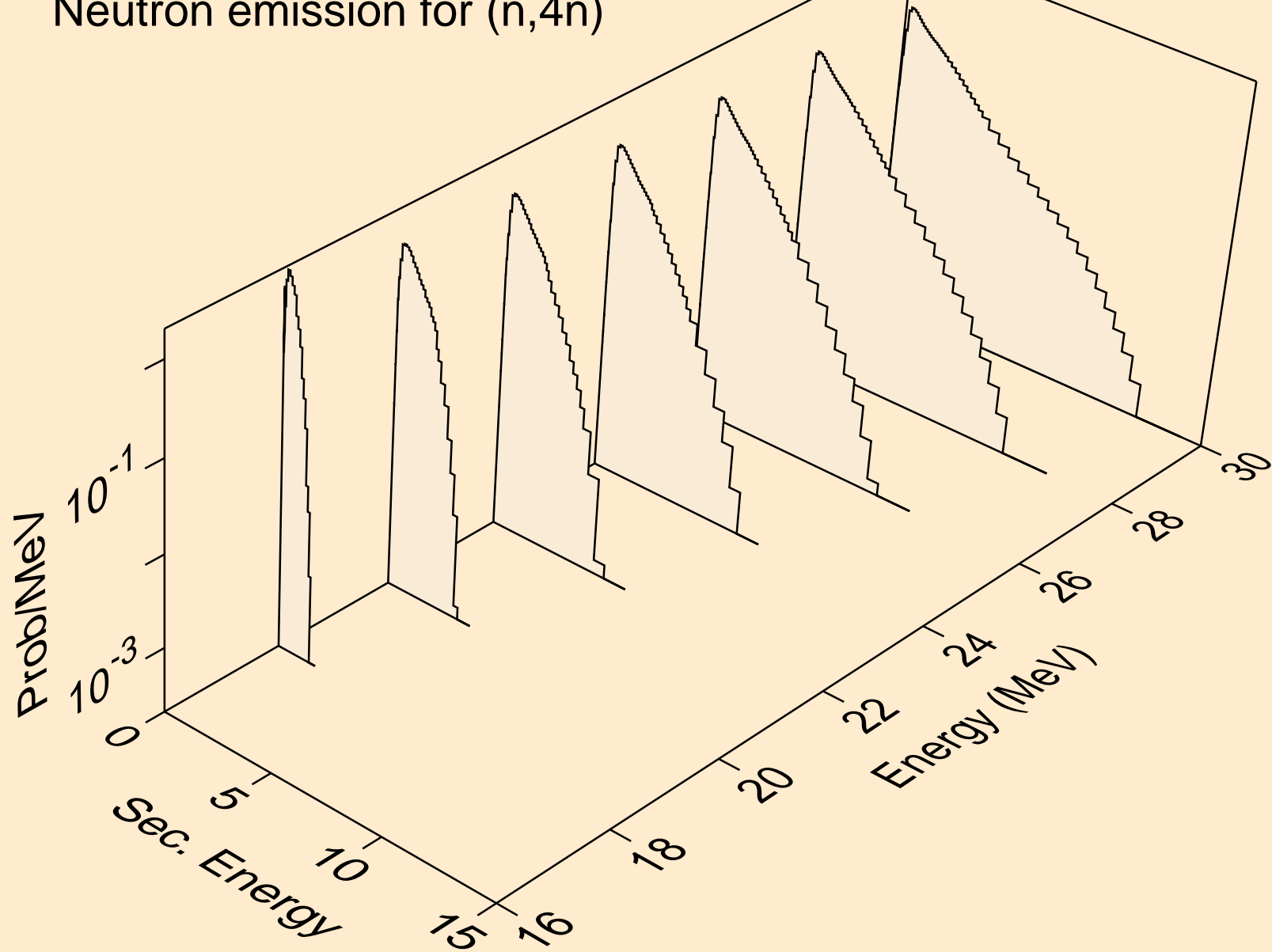
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



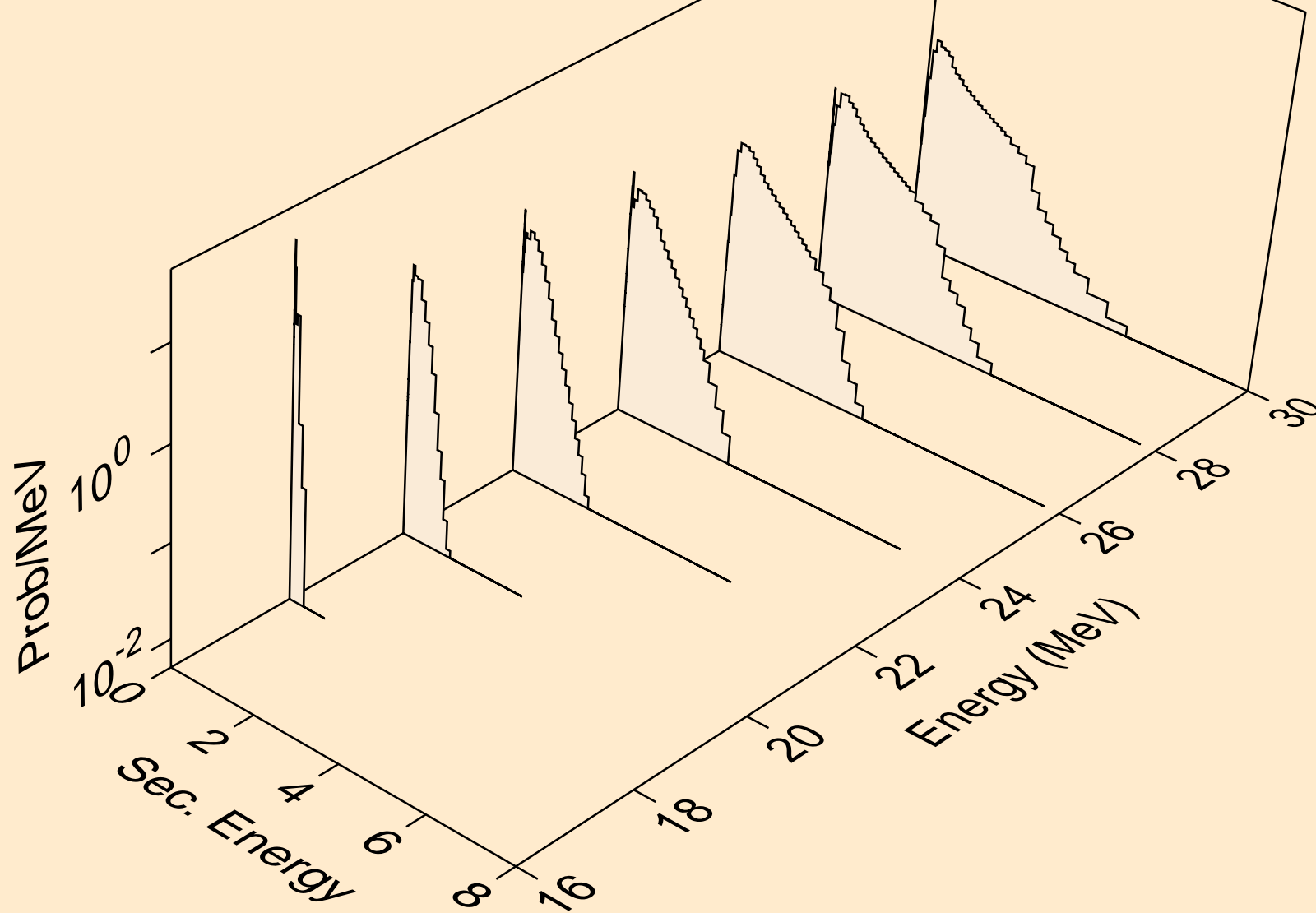
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



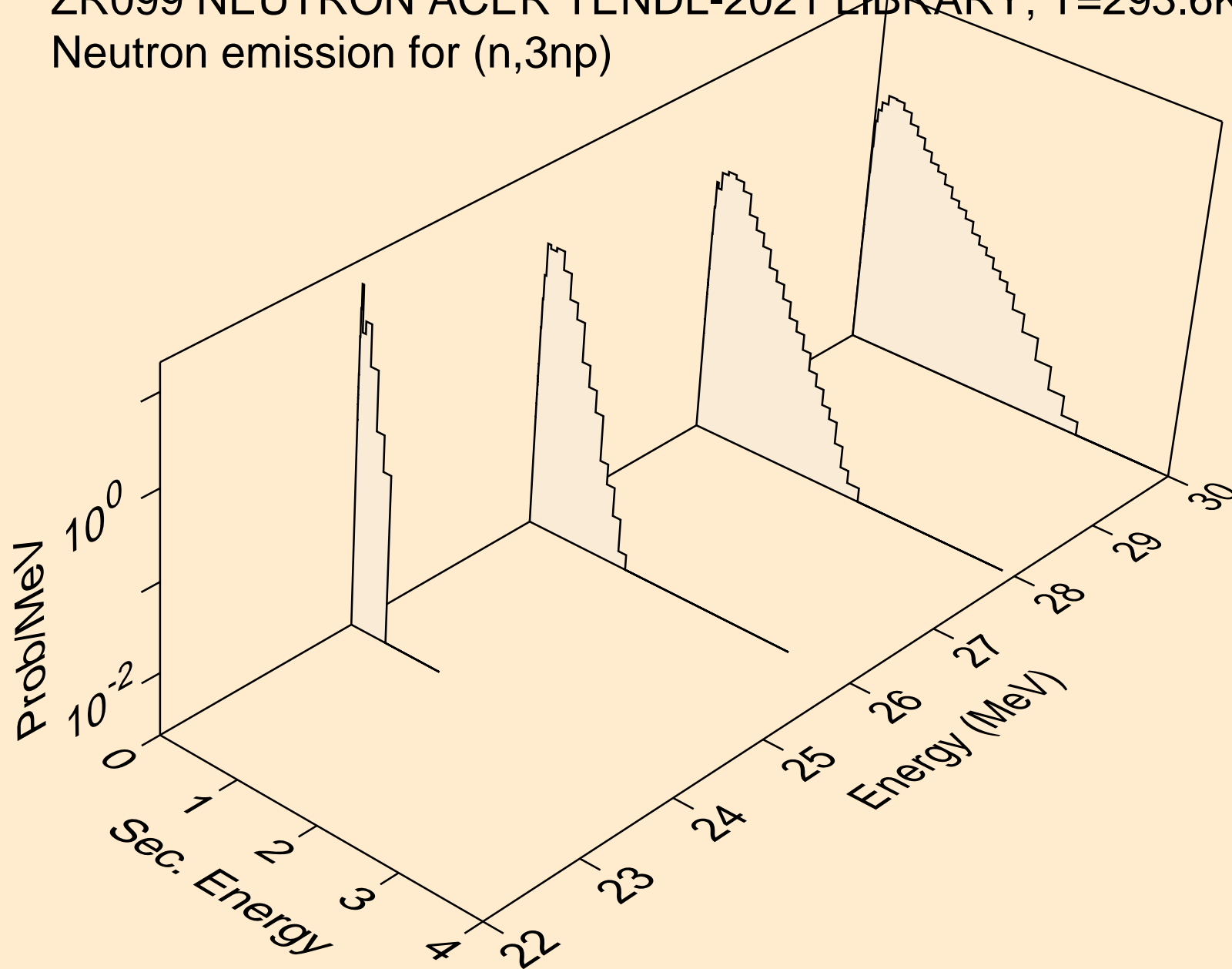
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



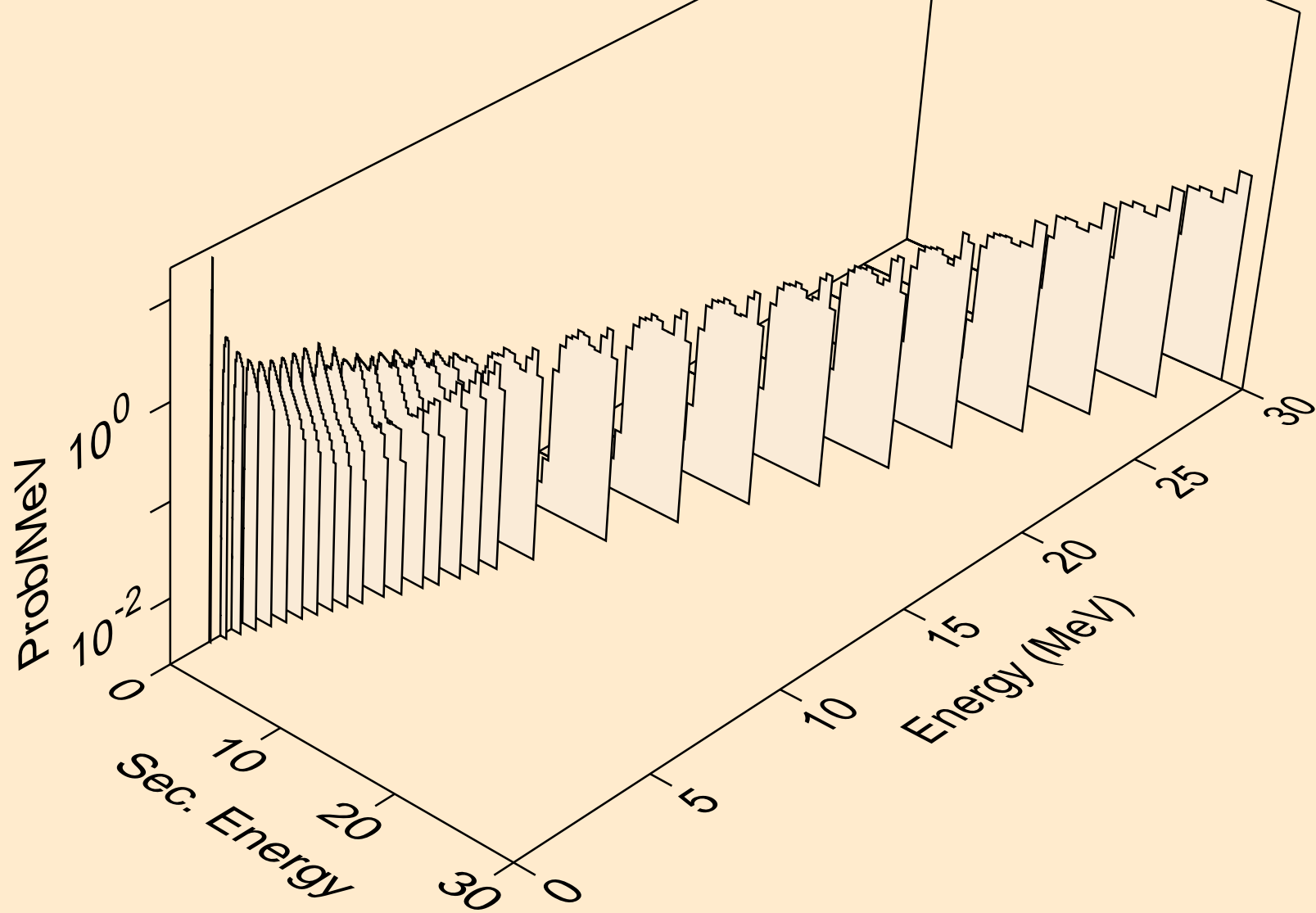
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)

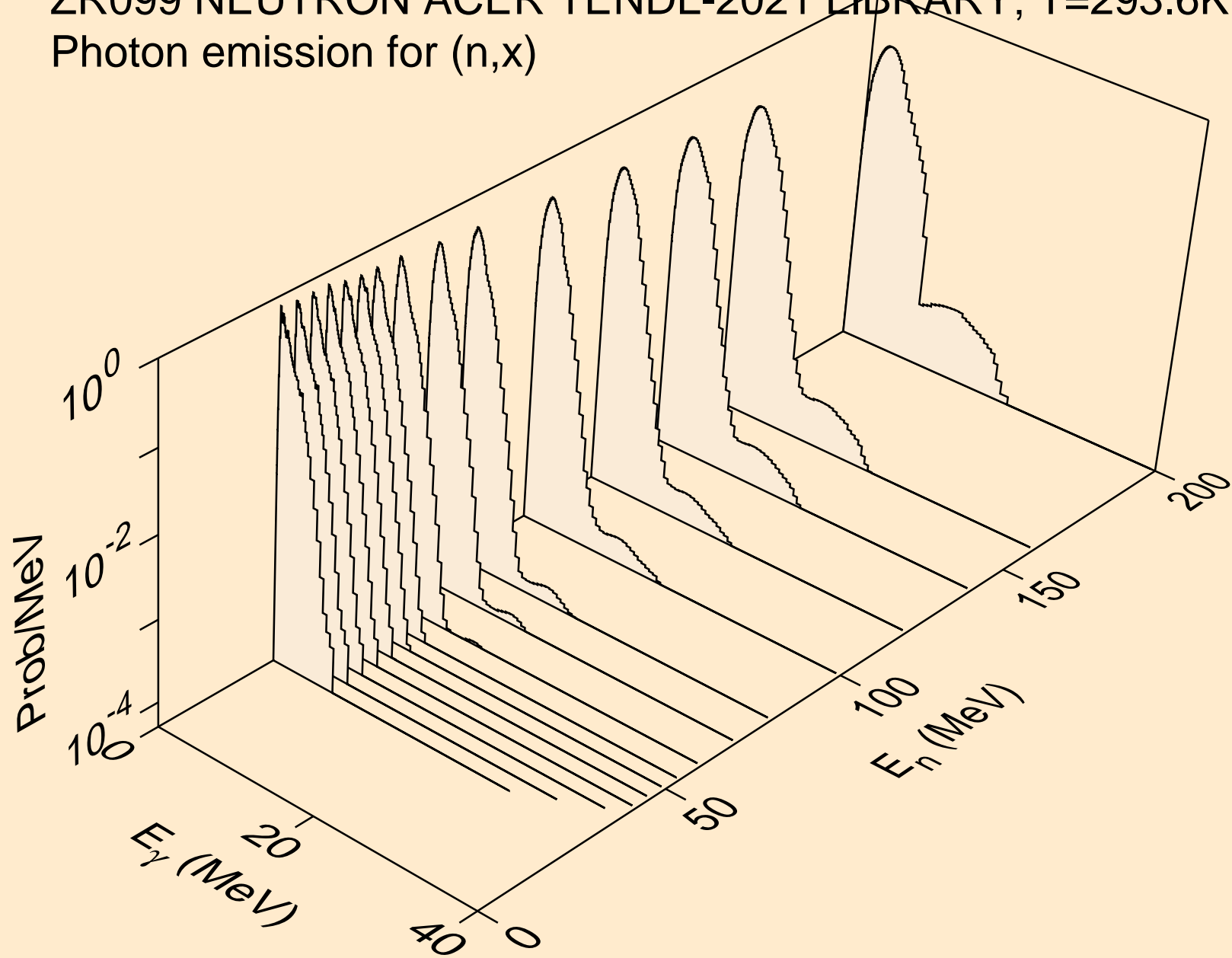


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)

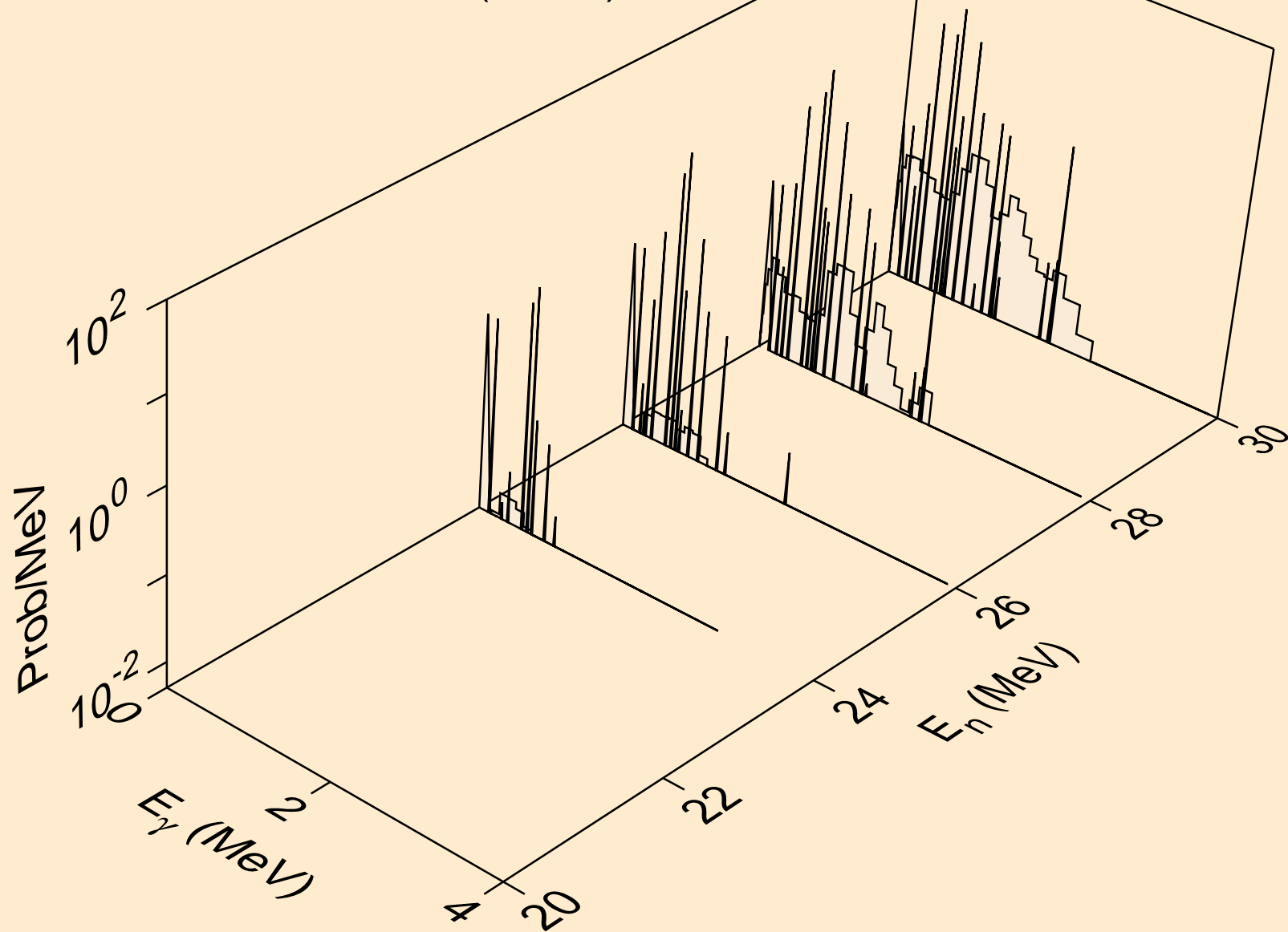




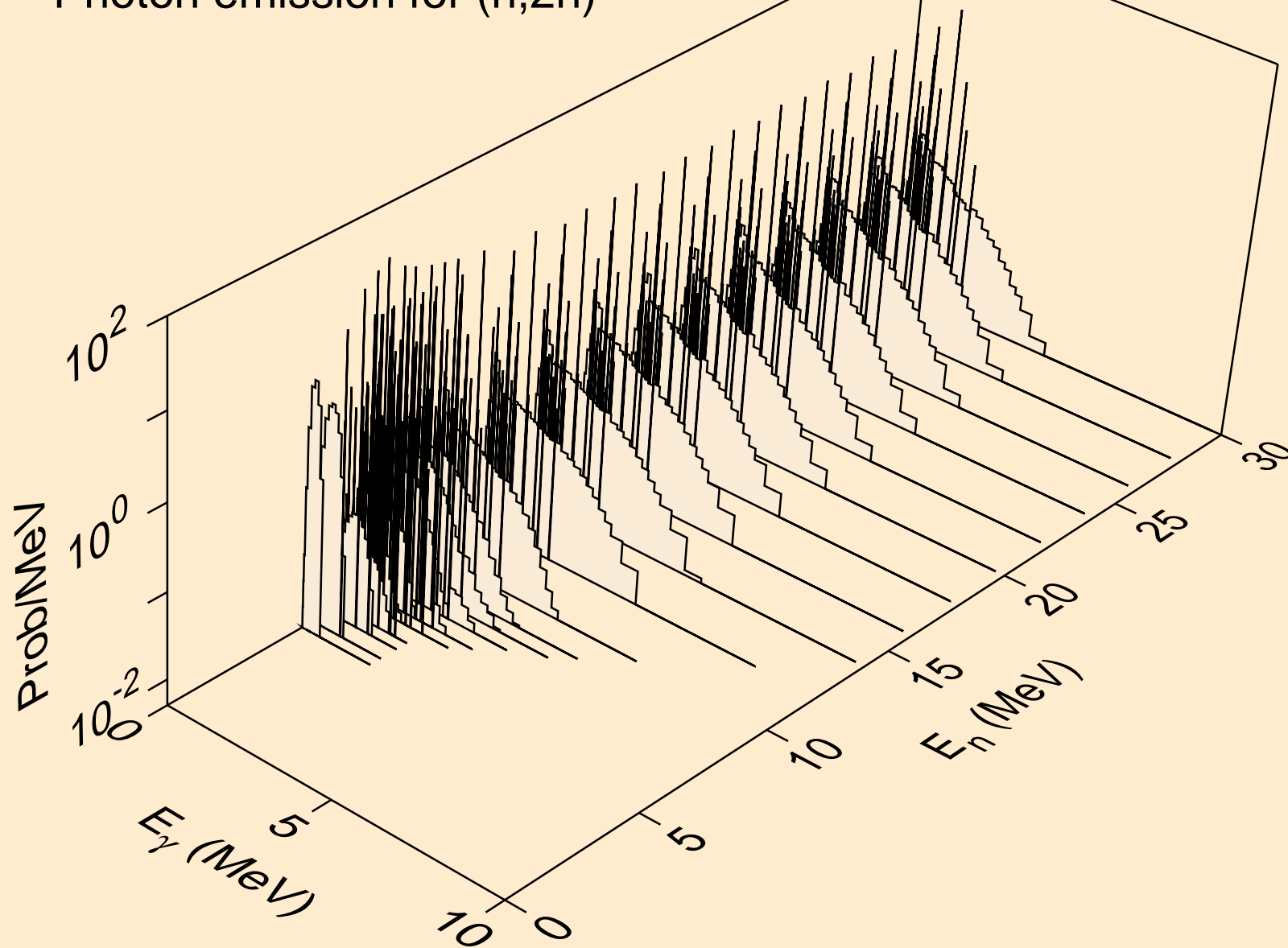
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



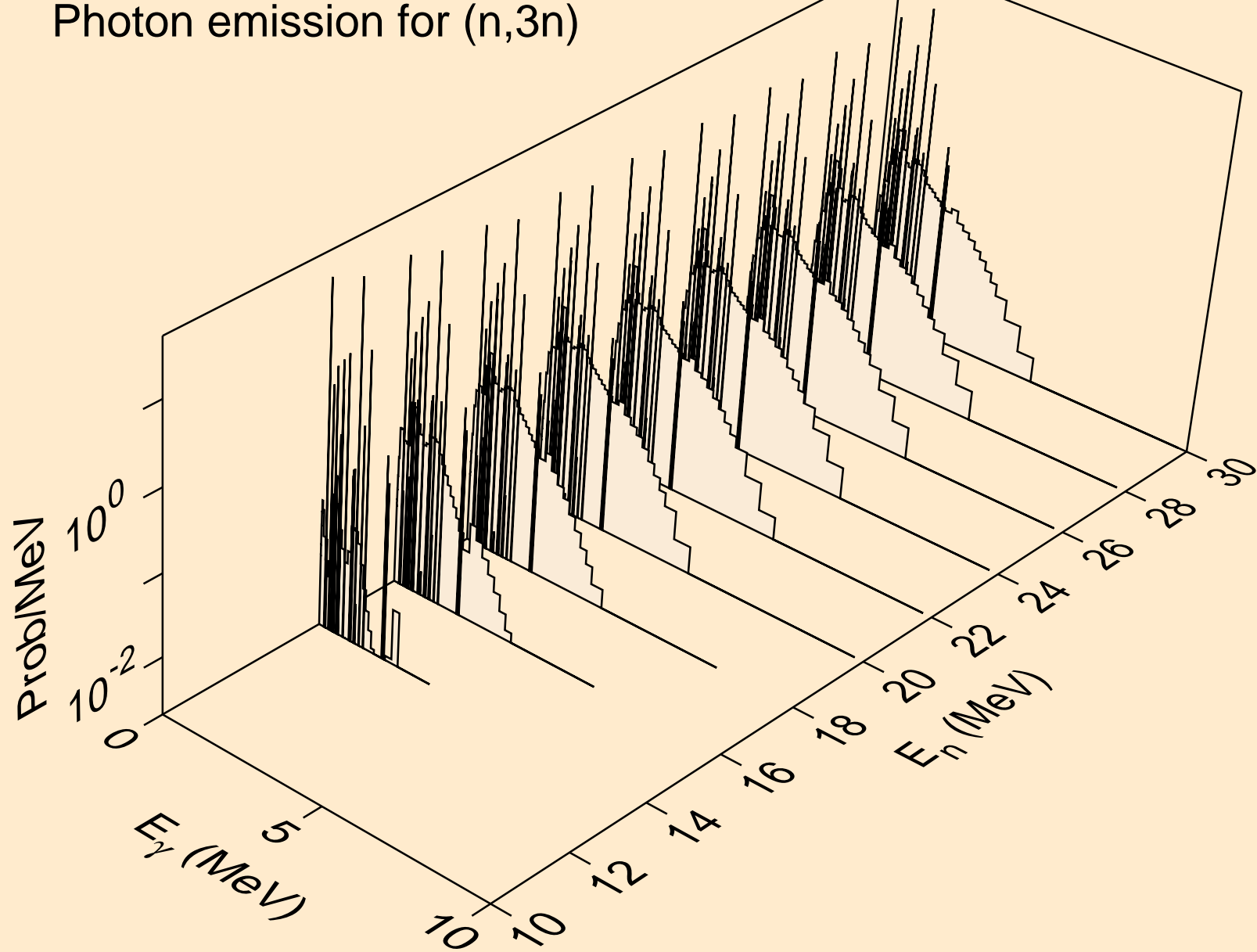
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Photon emission for (n,2nd)



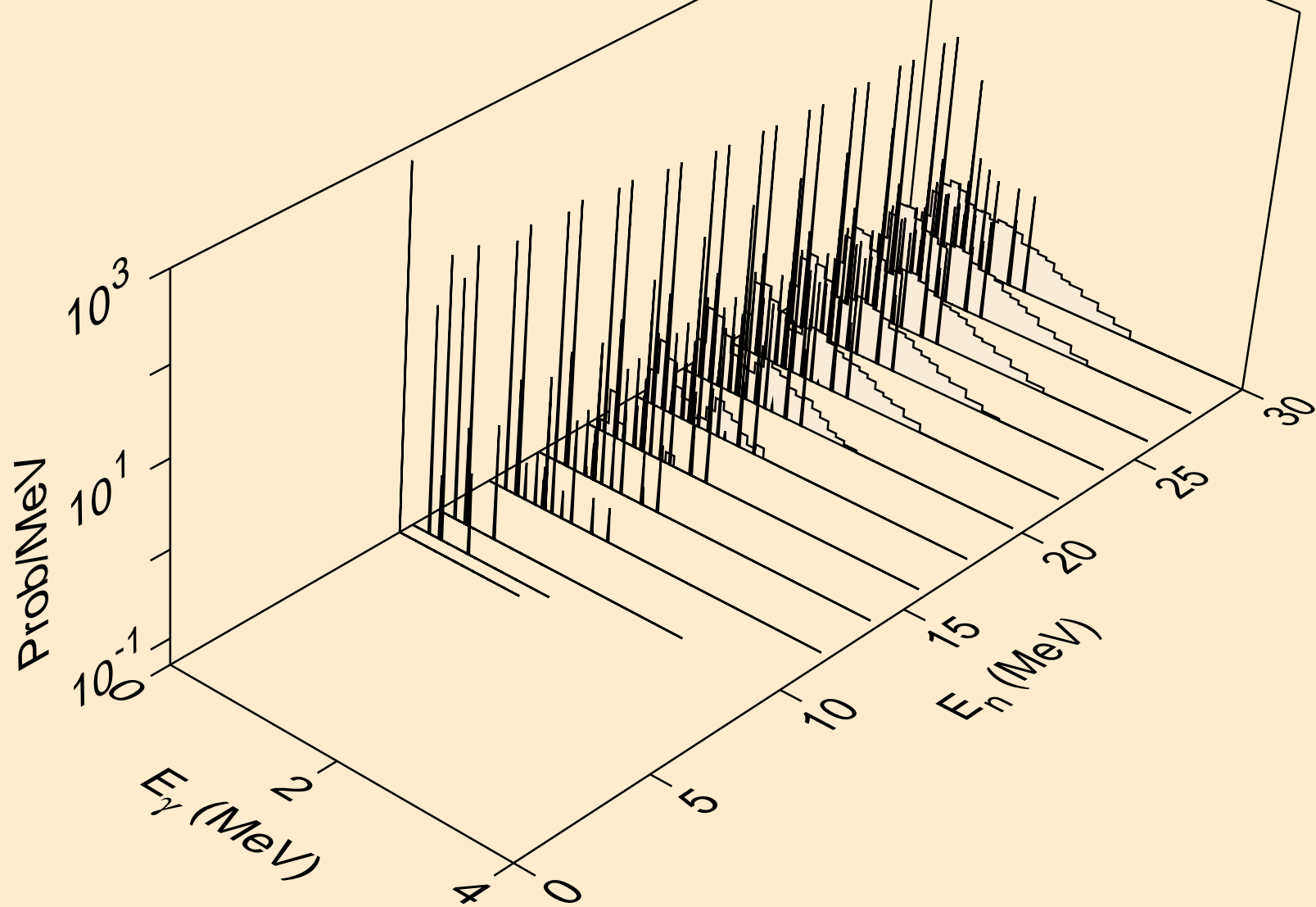
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Photon emission for (n,2n)



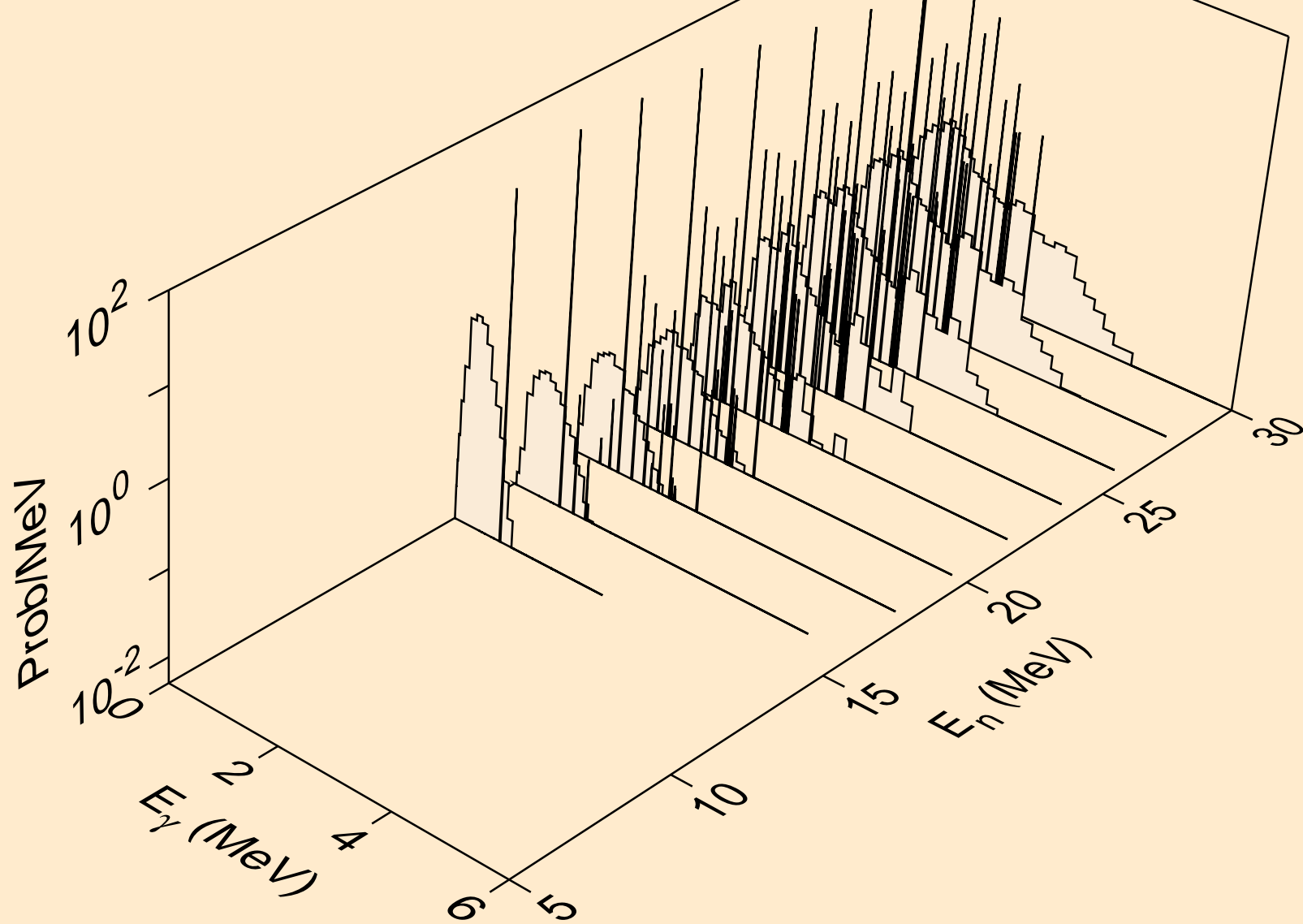
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



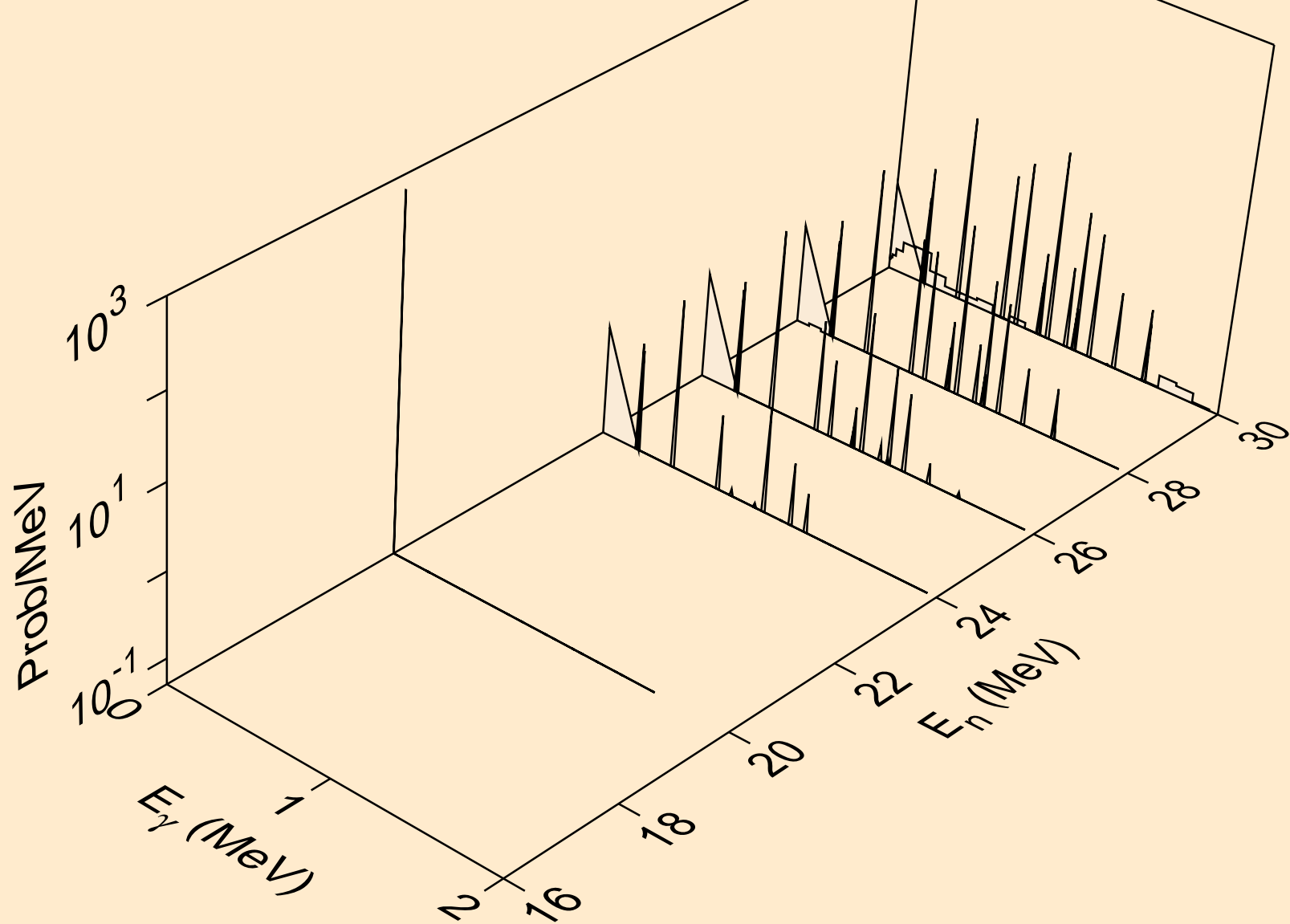
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



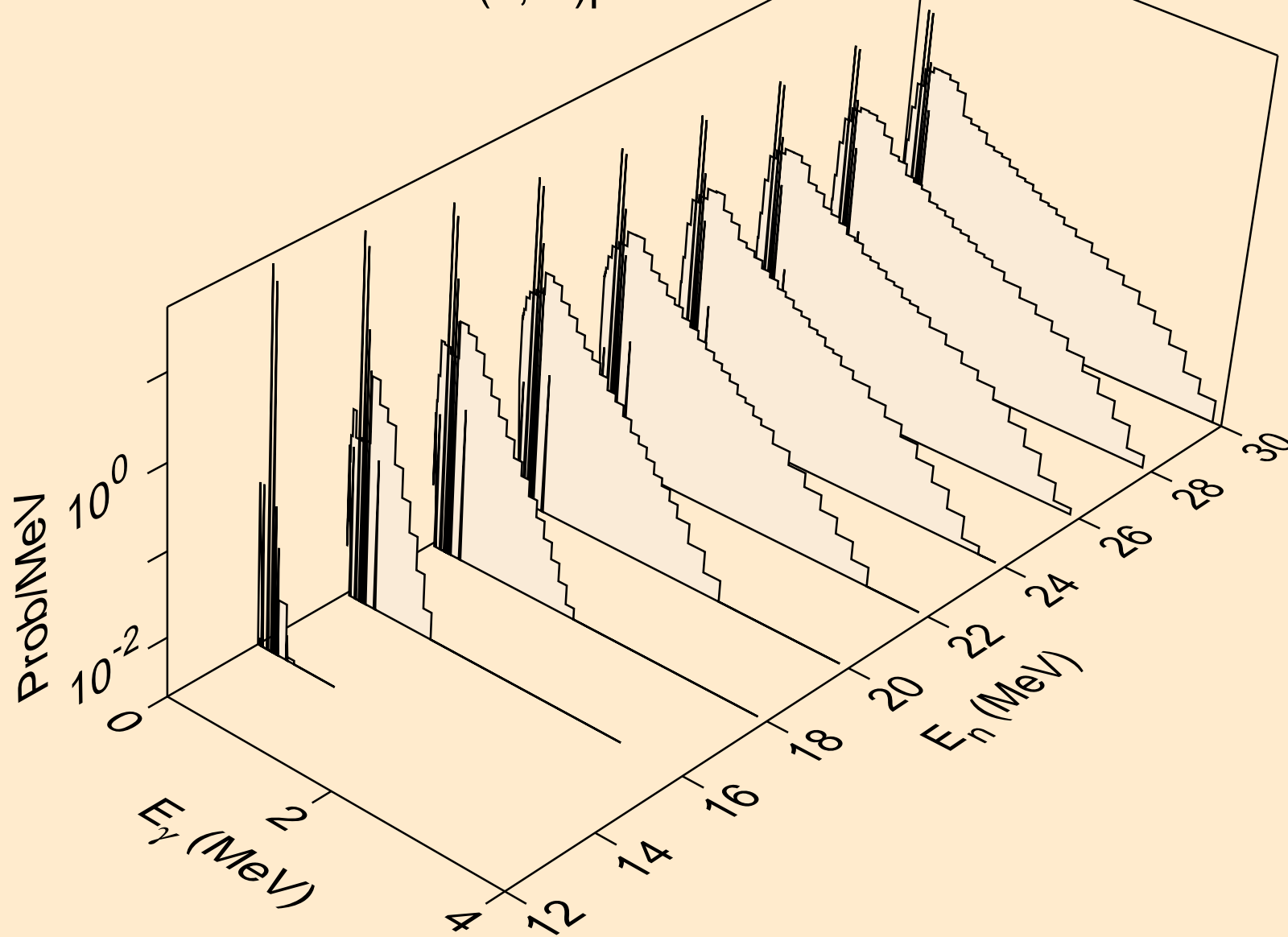
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a

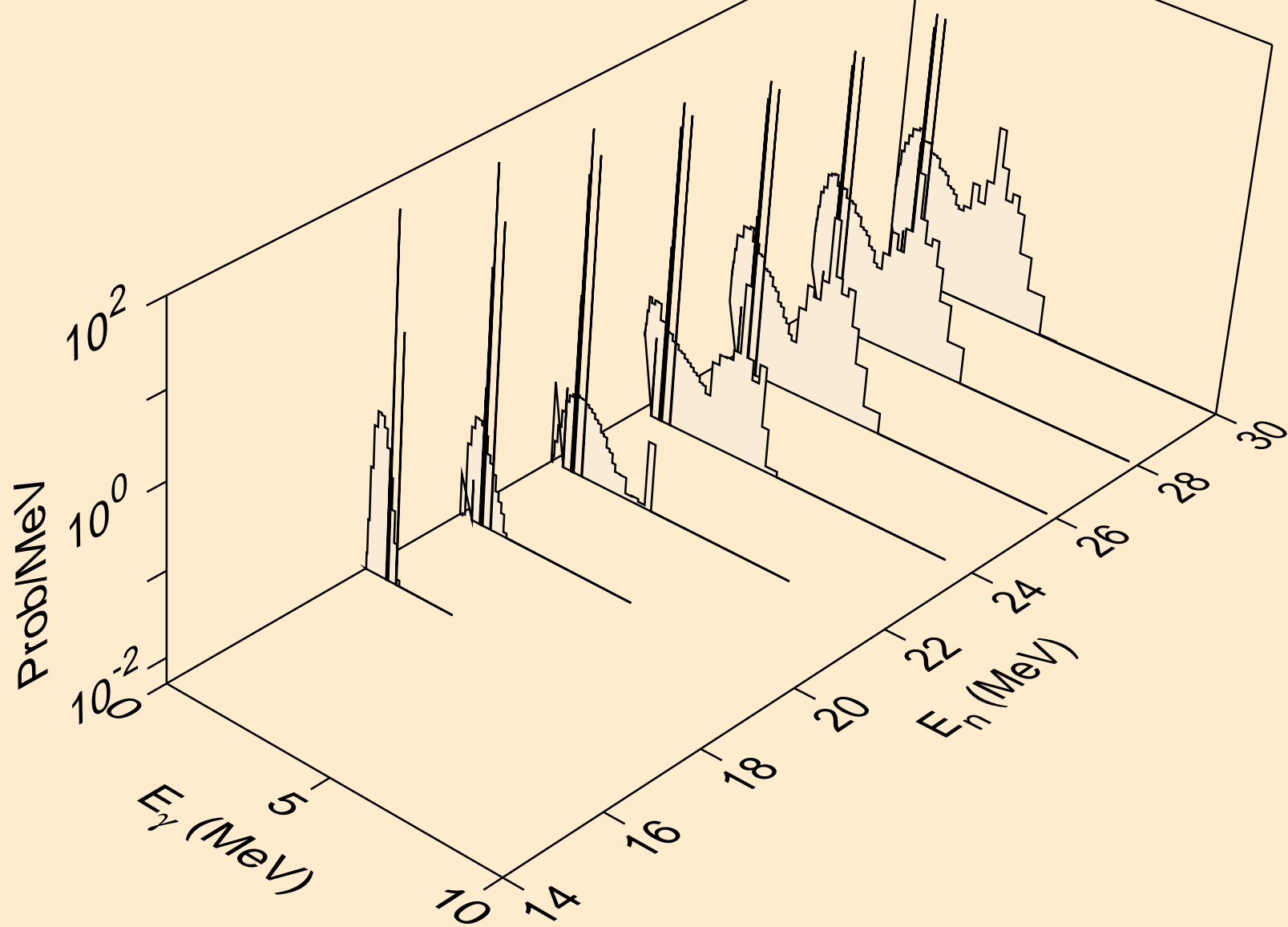


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p

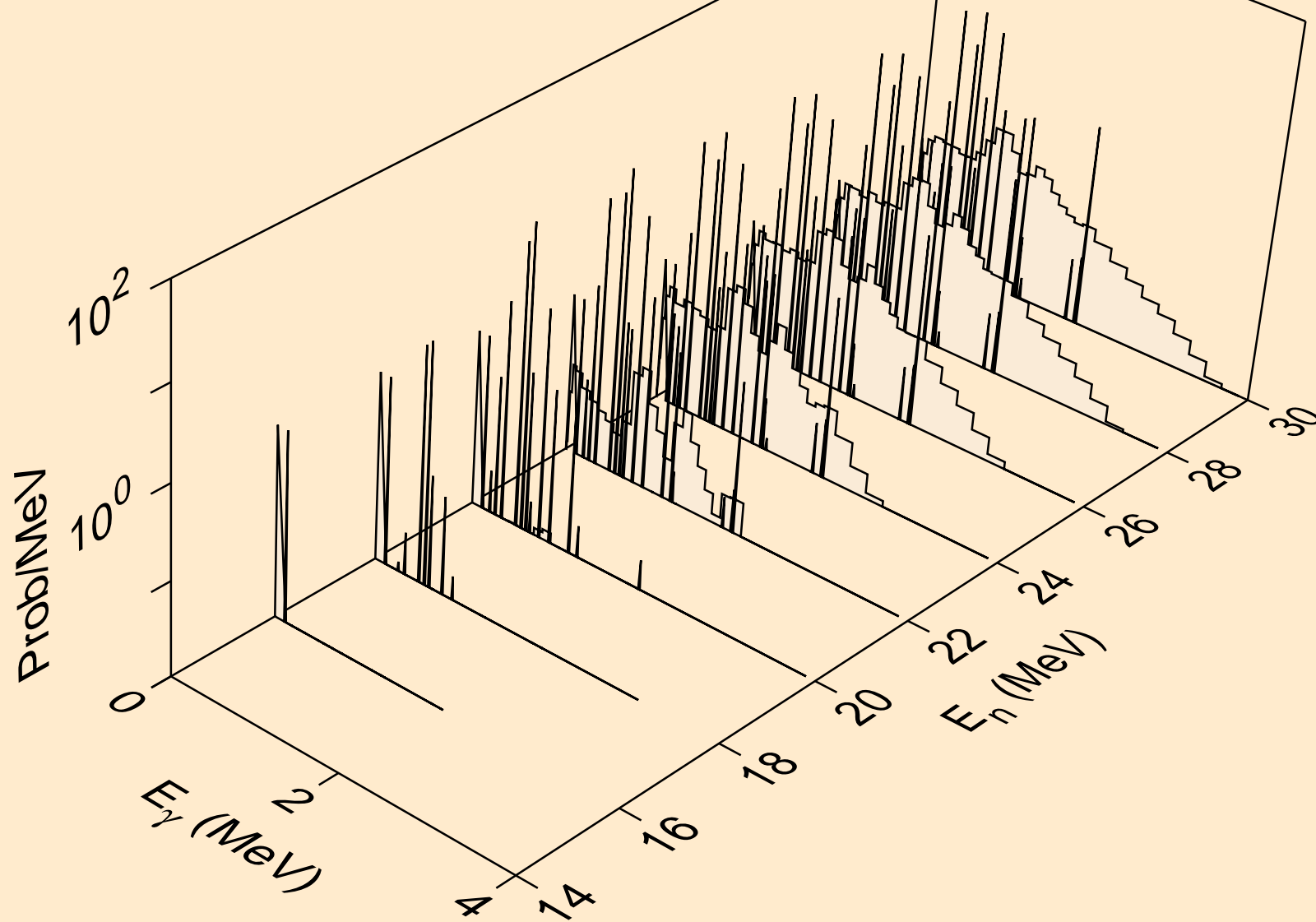




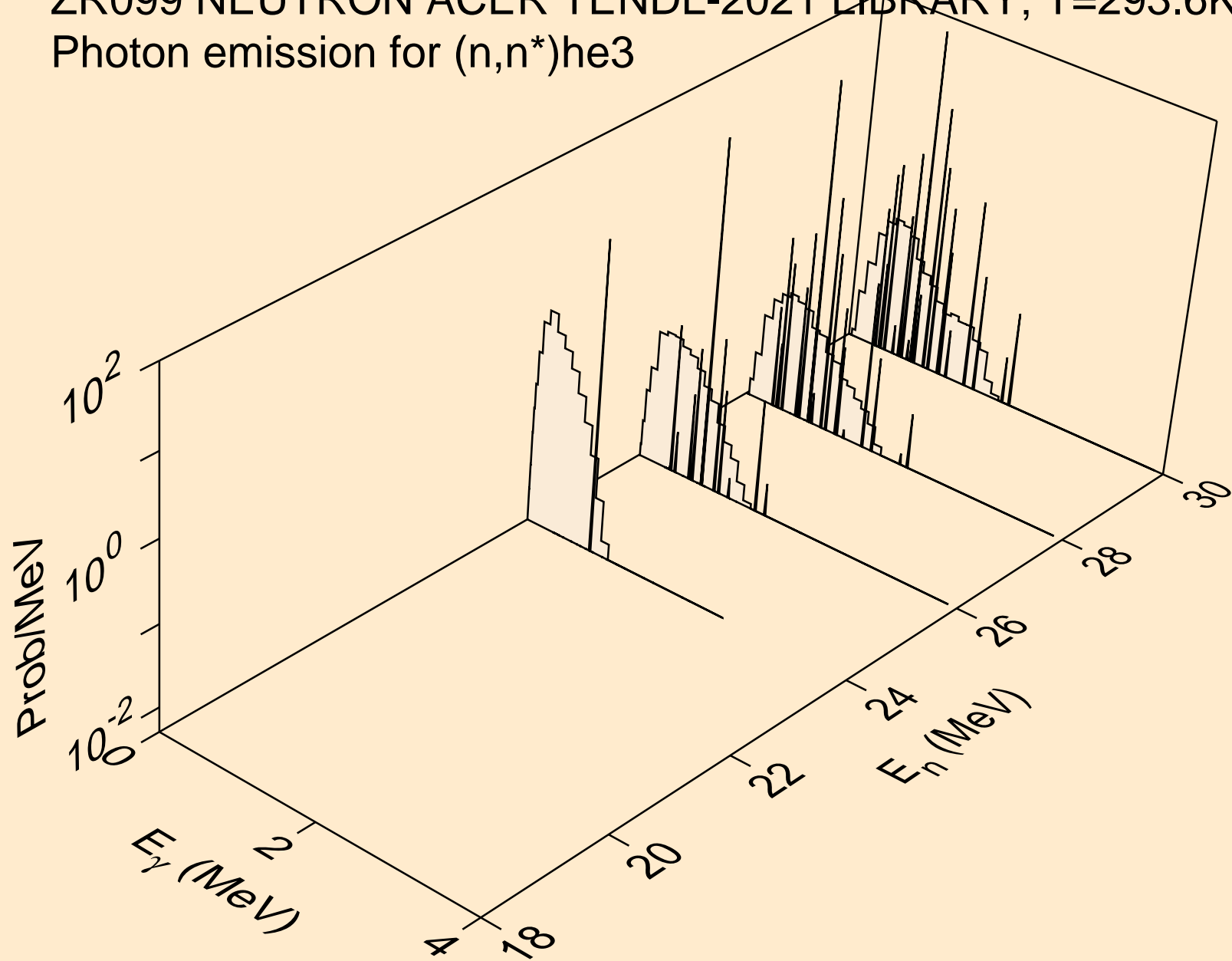
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



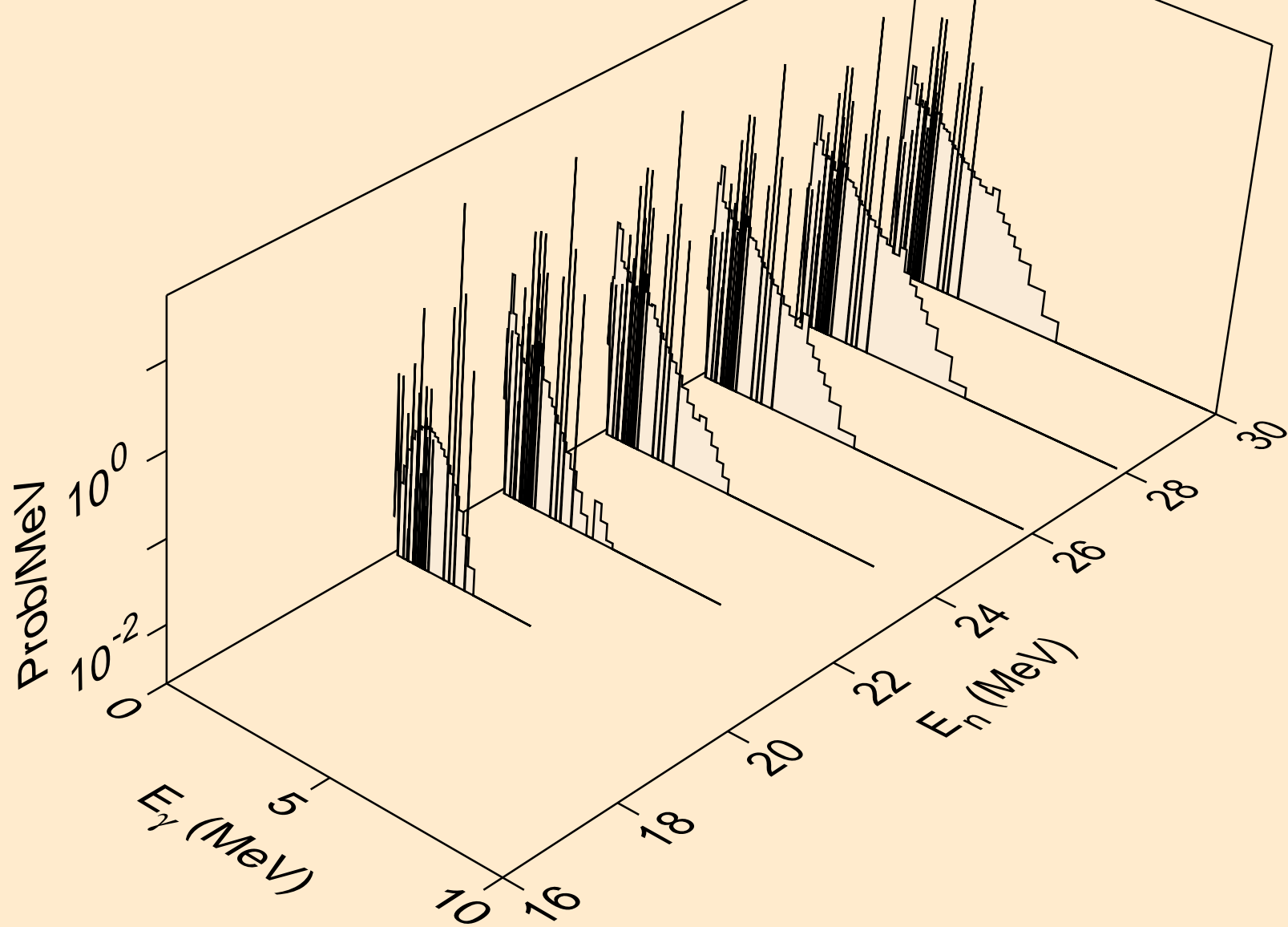
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Photon emission for (n,n\*)t



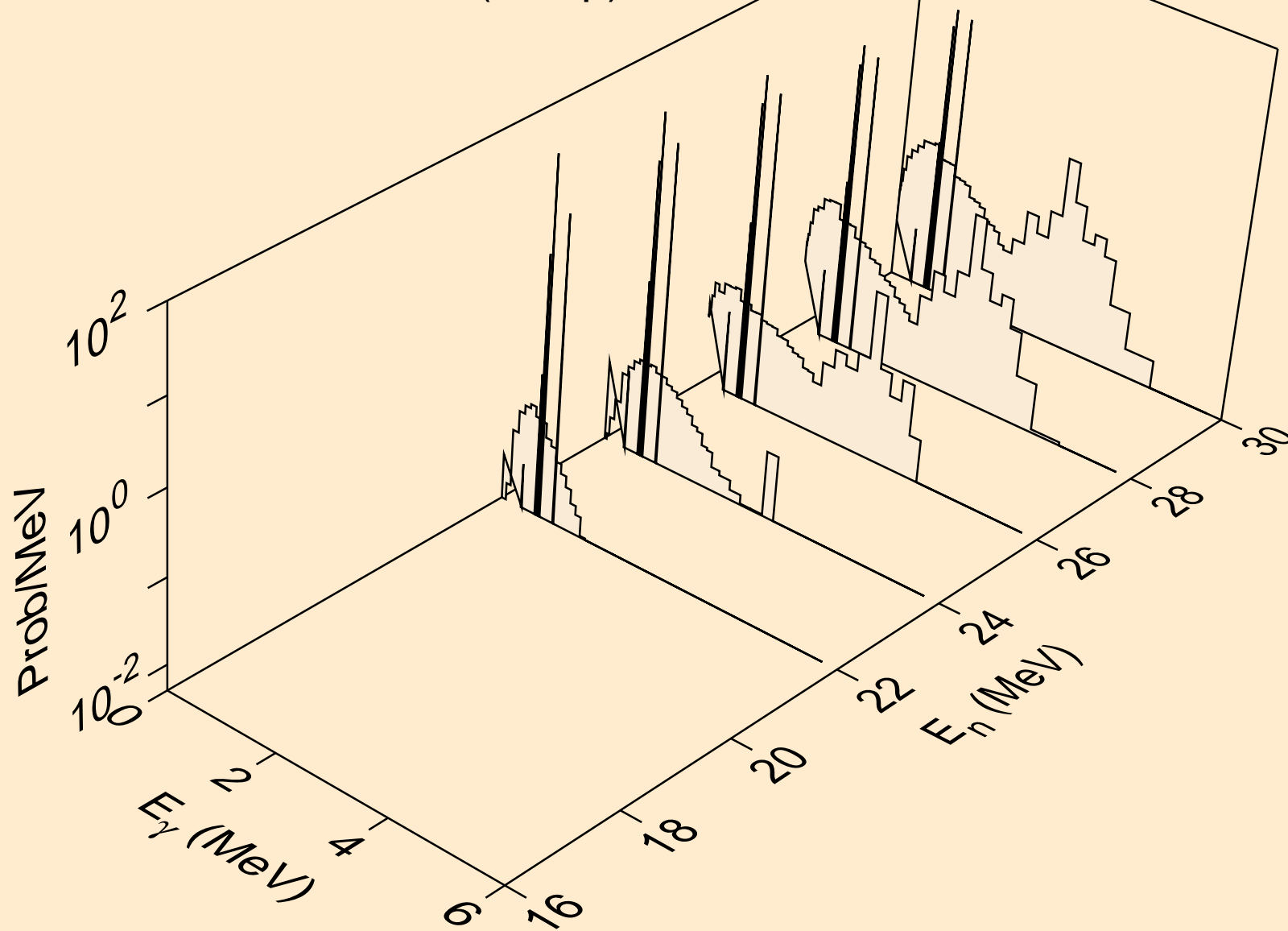
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Photon emission for (n,n\*)he3



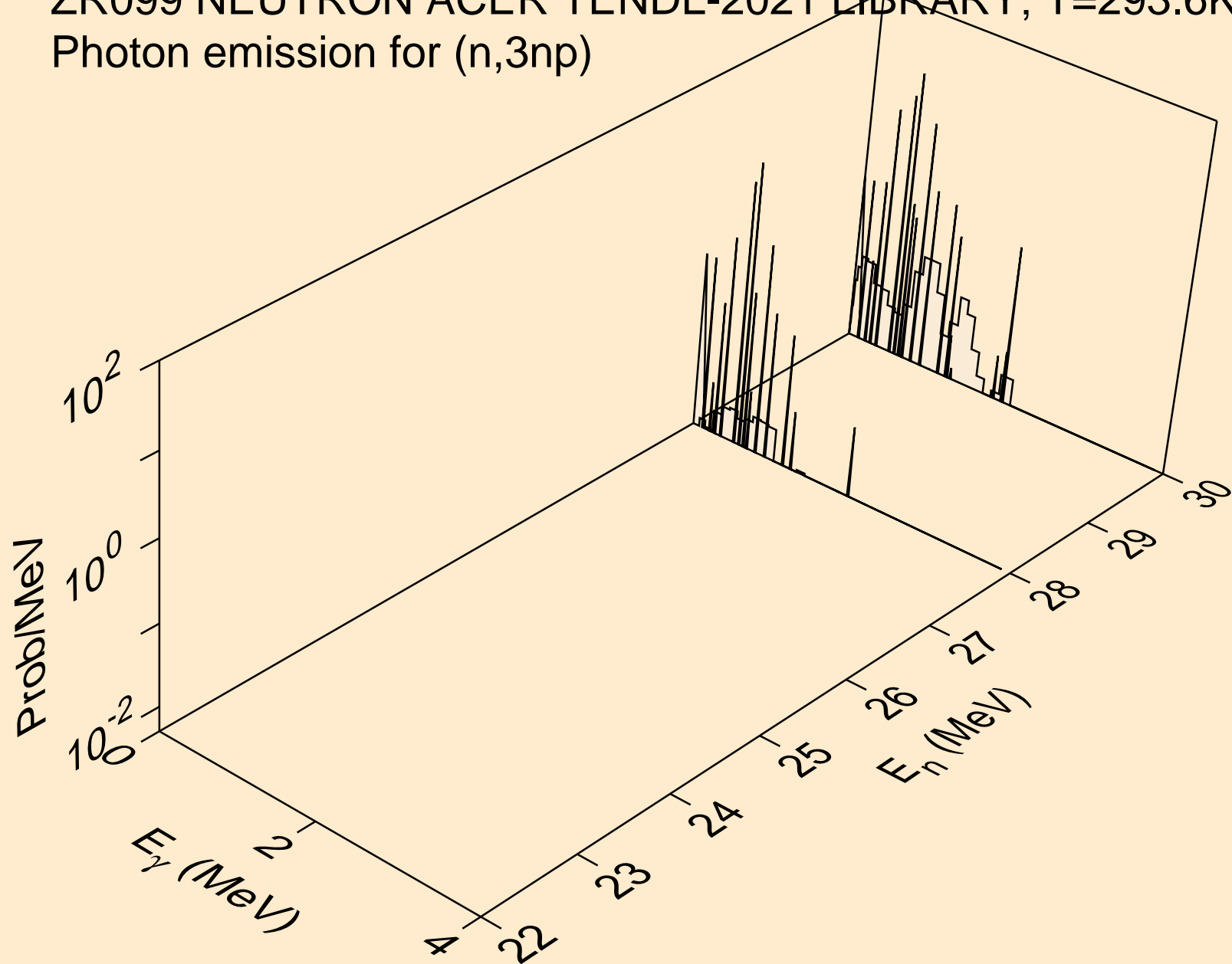
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Photon emission for (n,4n)



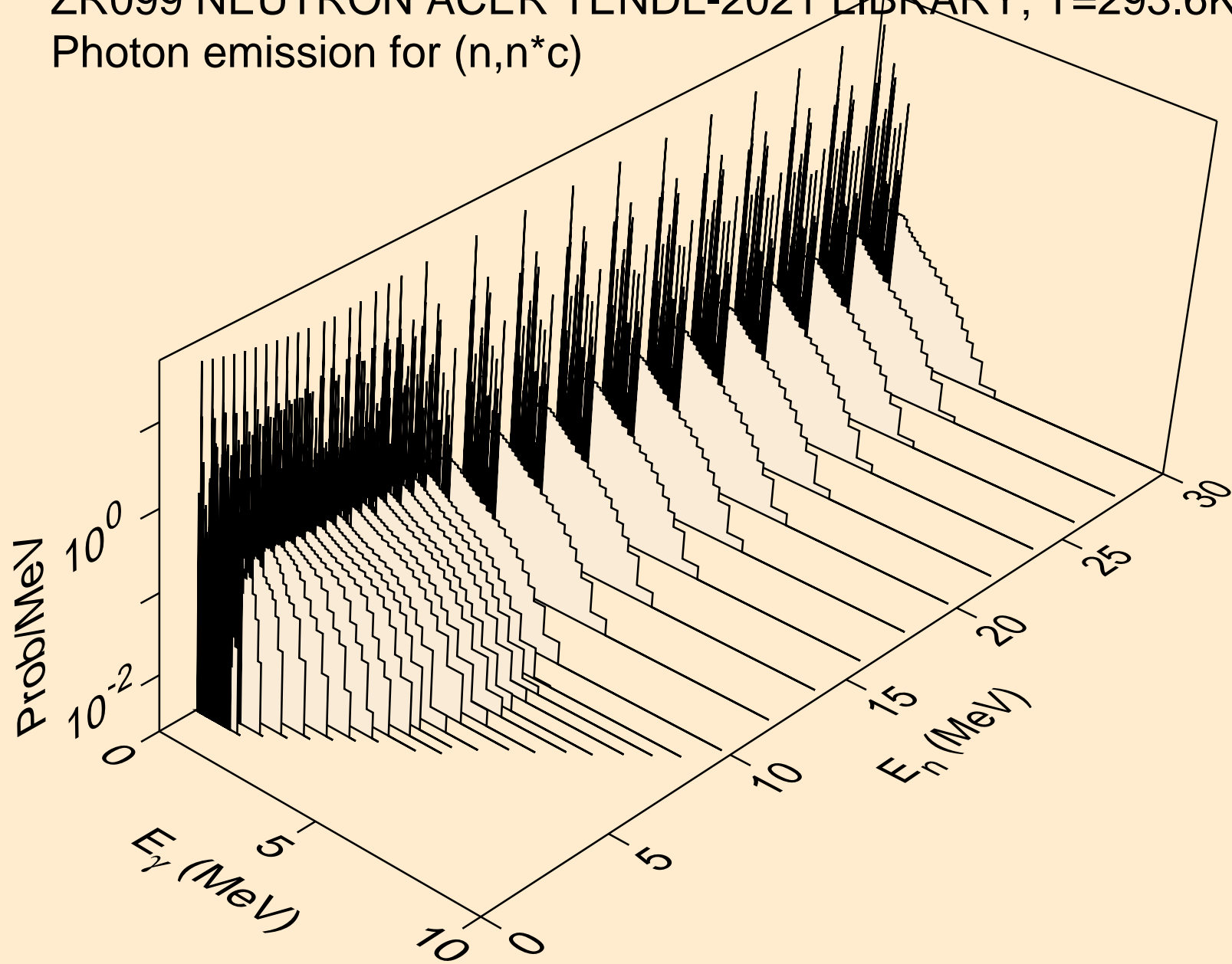
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Photon emission for (n,2np)



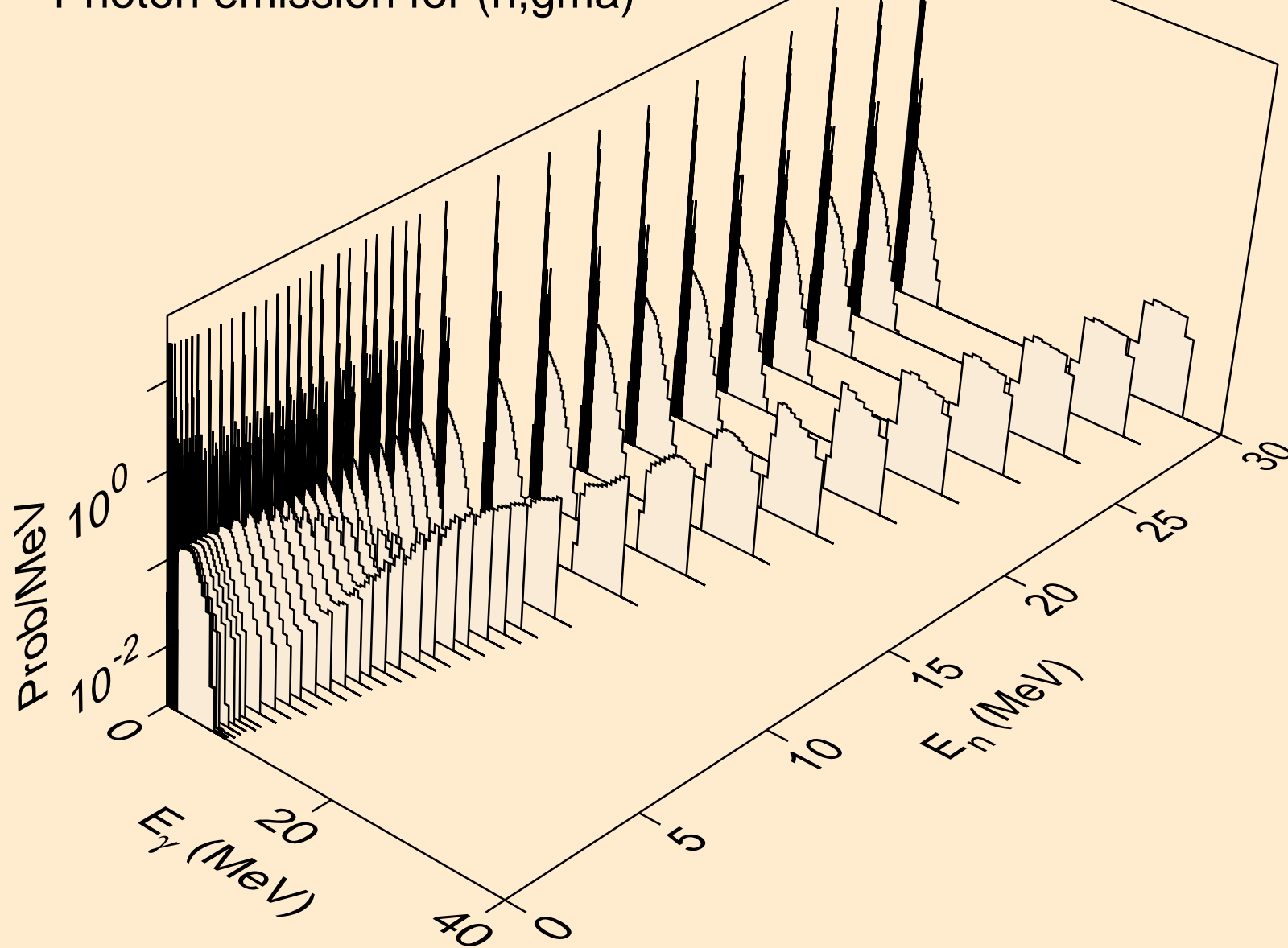
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)

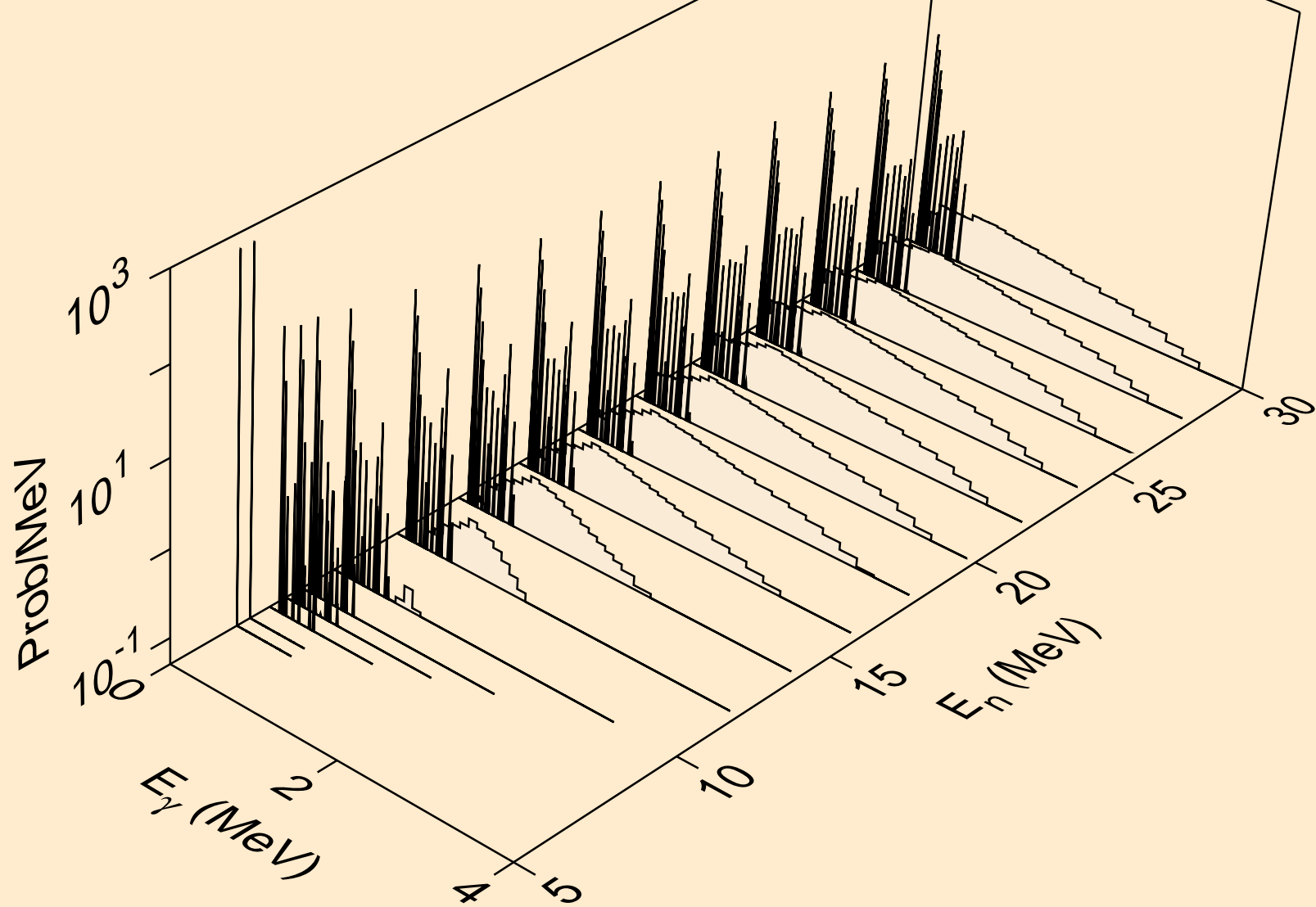


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

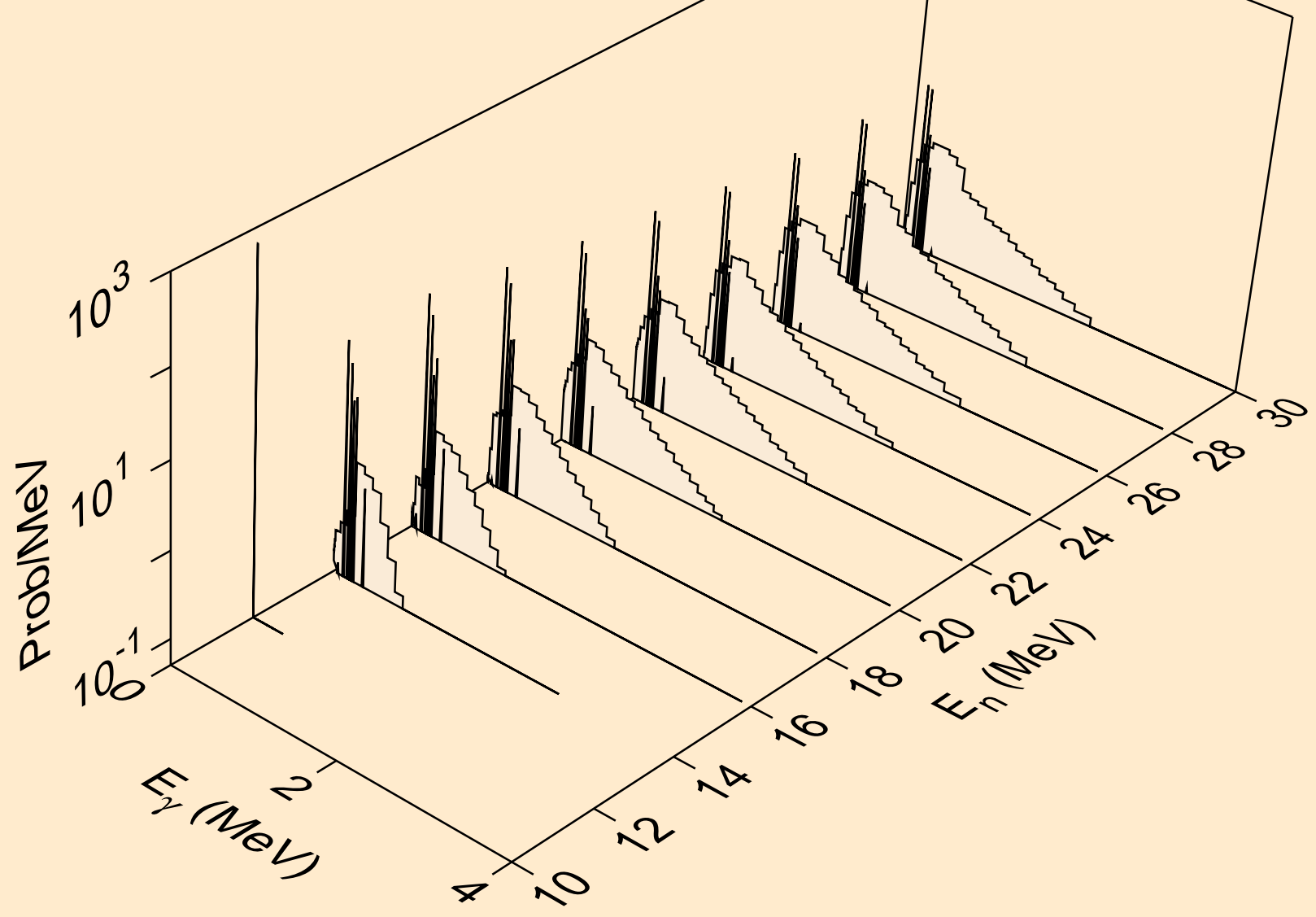




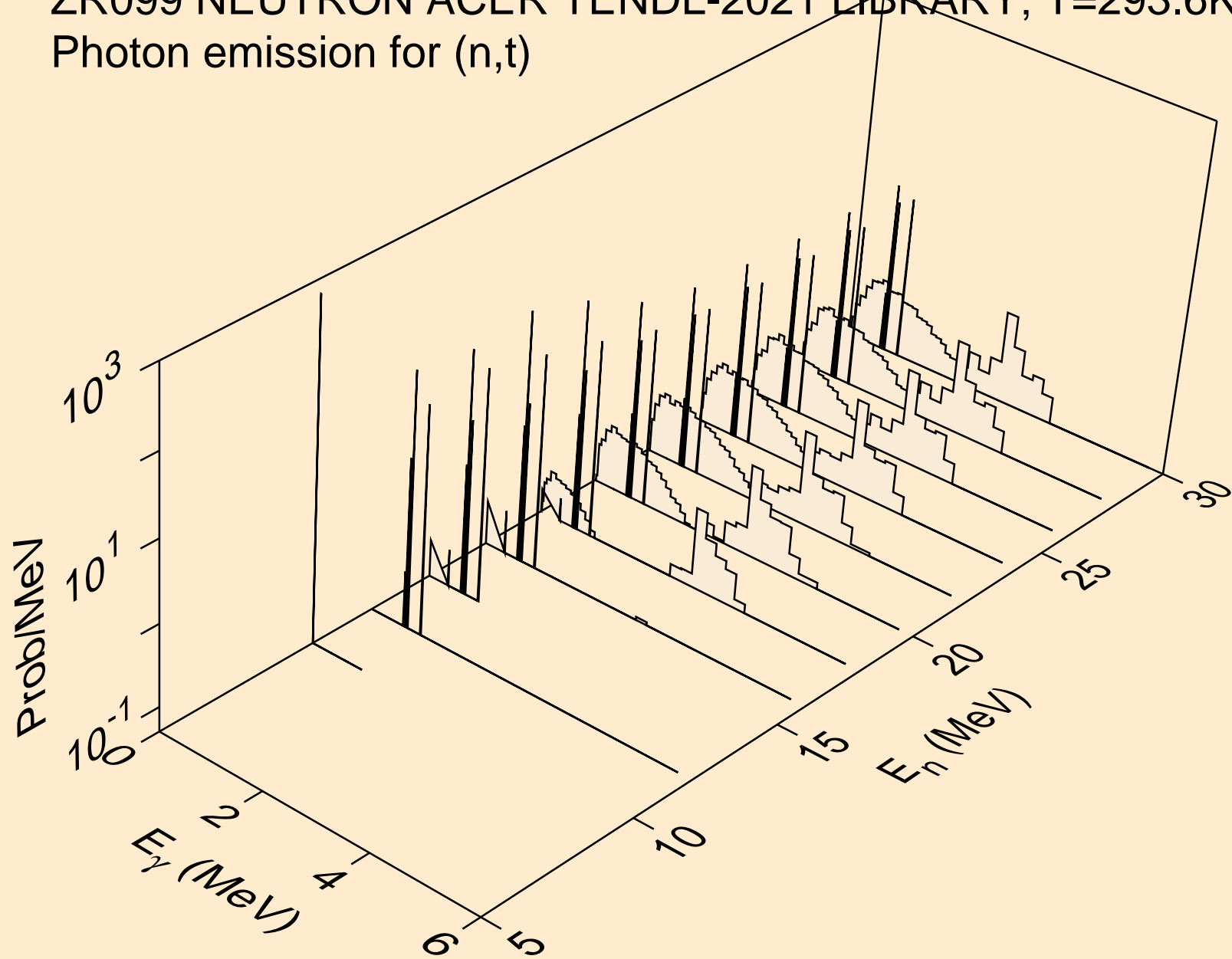
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



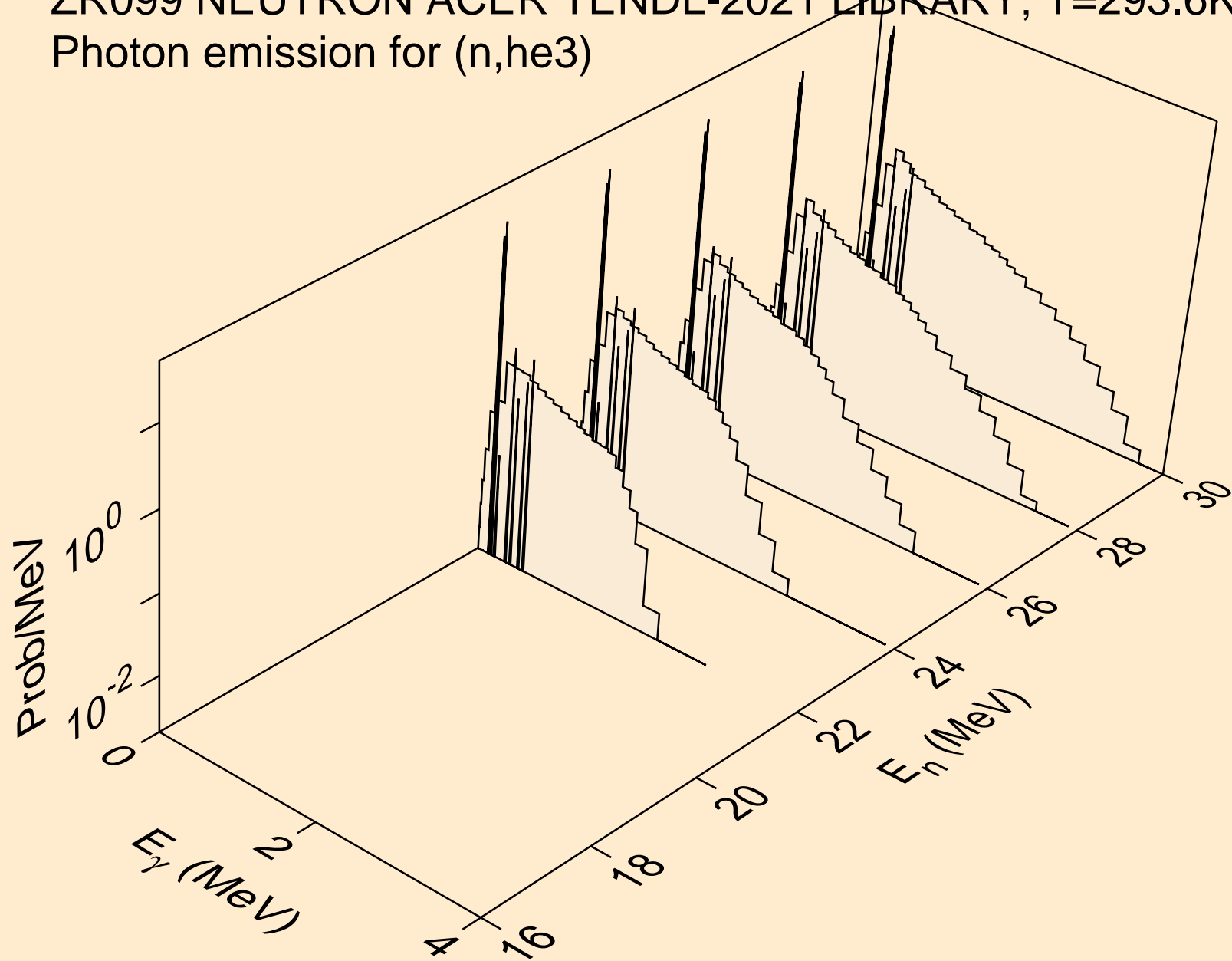
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Photon emission for (n,d)



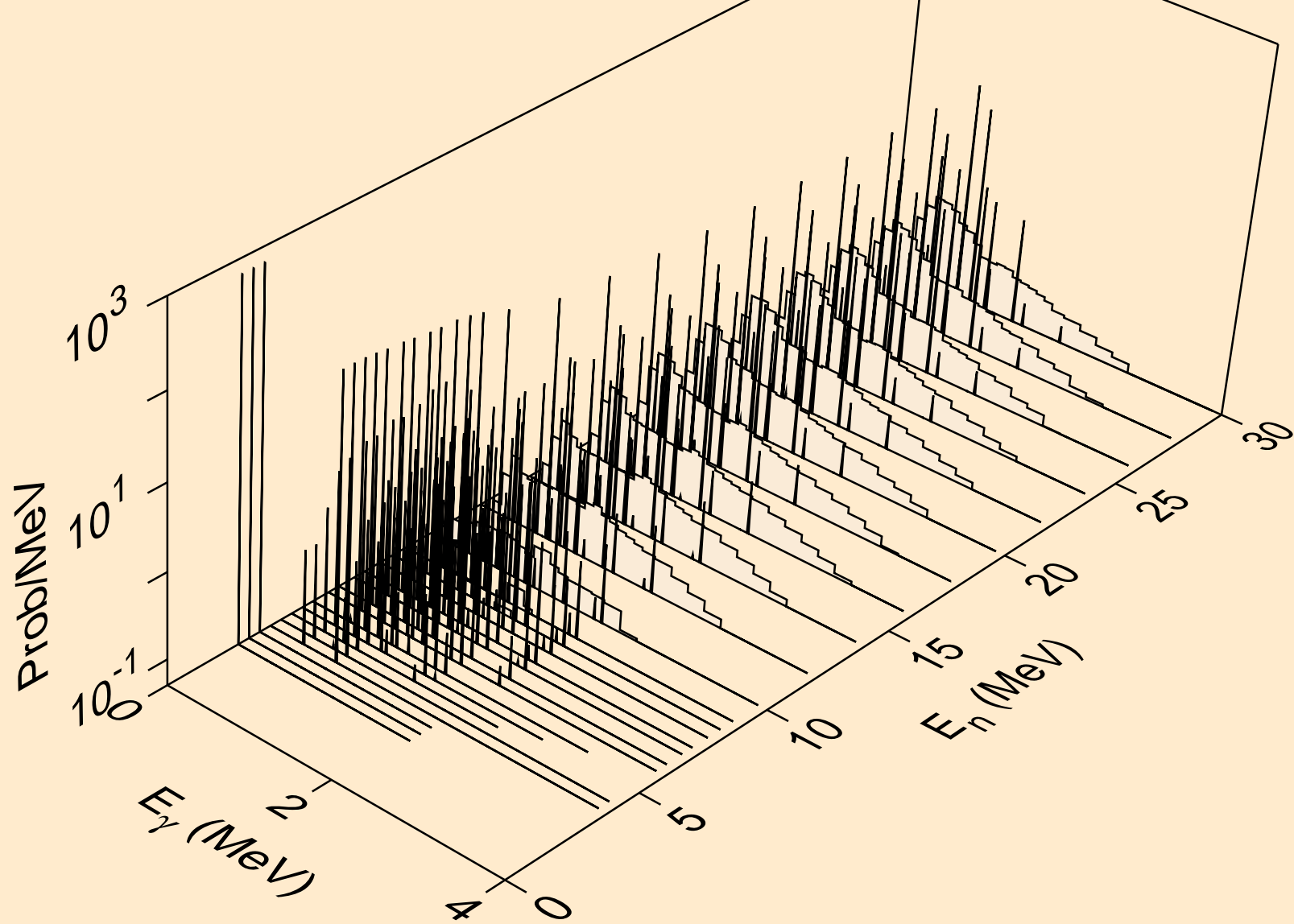
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Photon emission for (n,t)



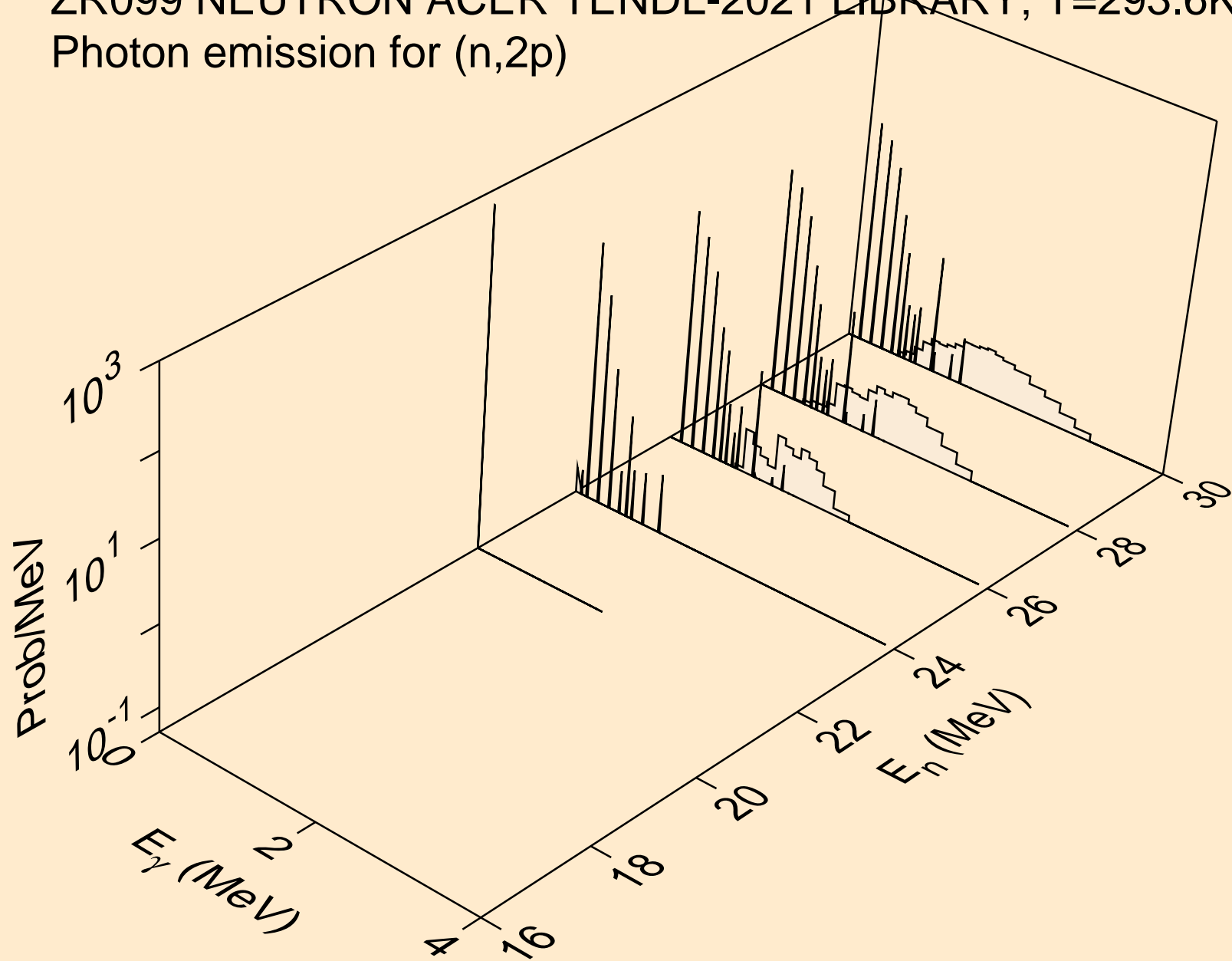
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Photon emission for (n,he3)



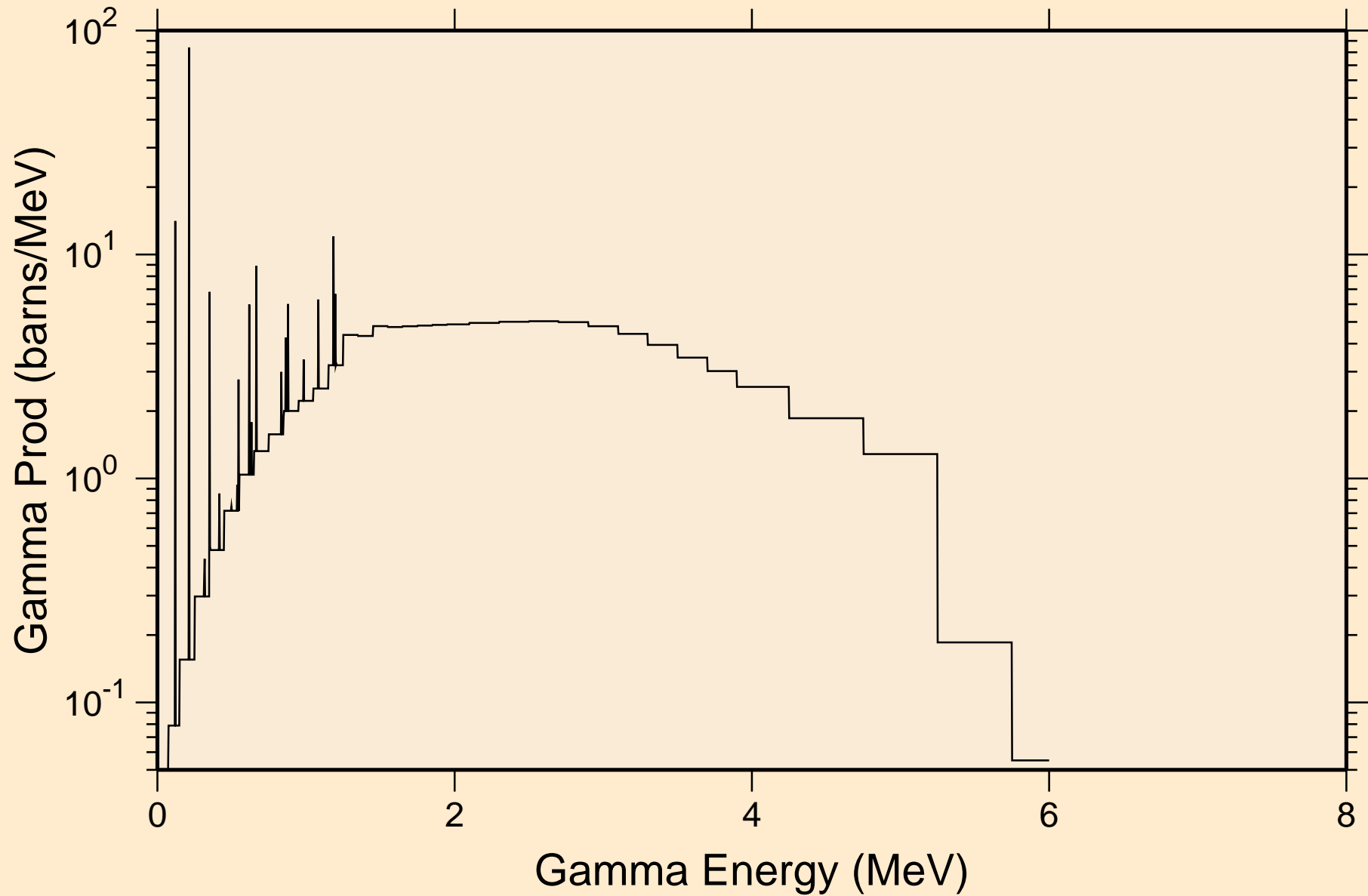
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Photon emission for (n,a)



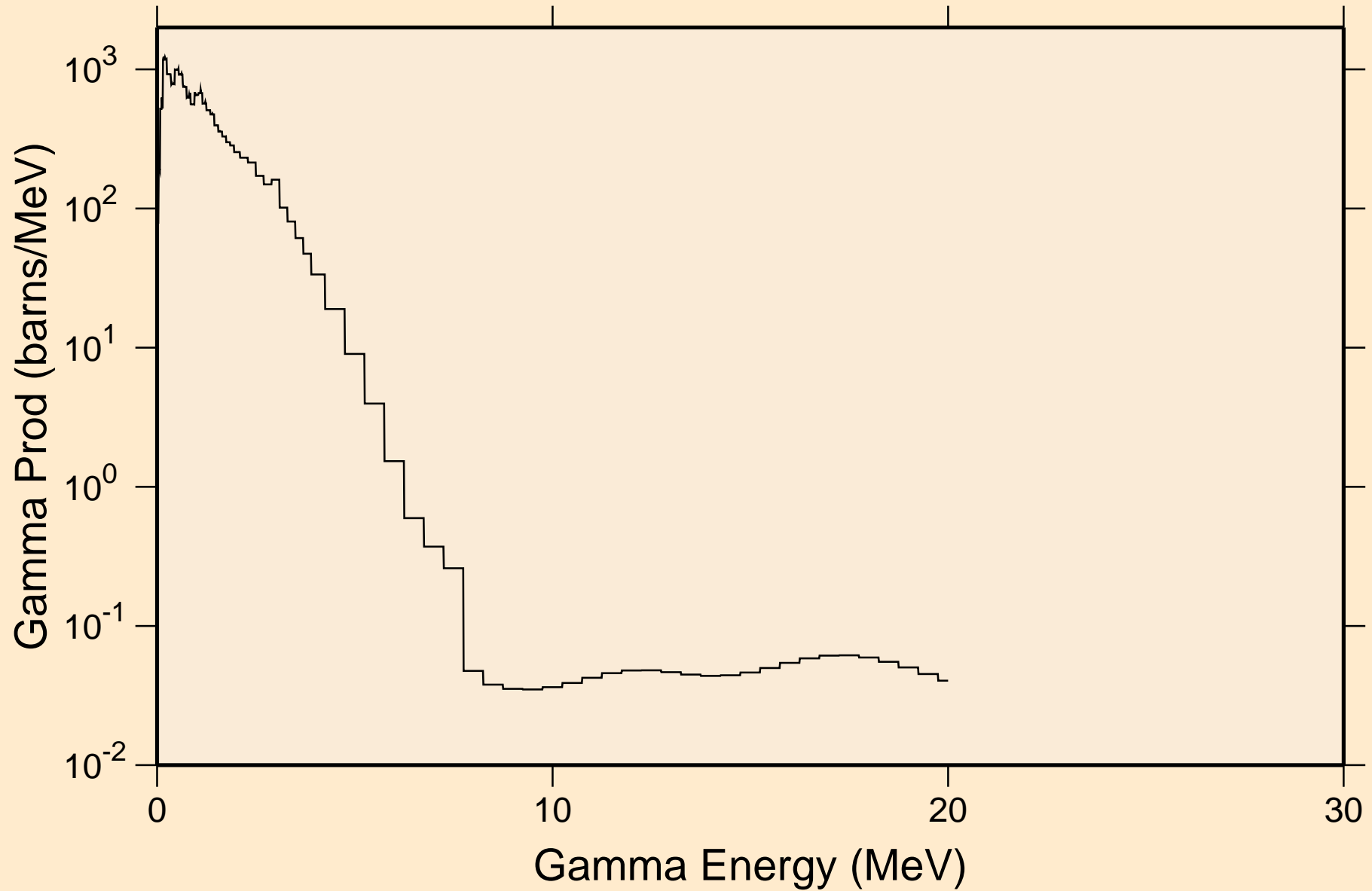
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2p)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

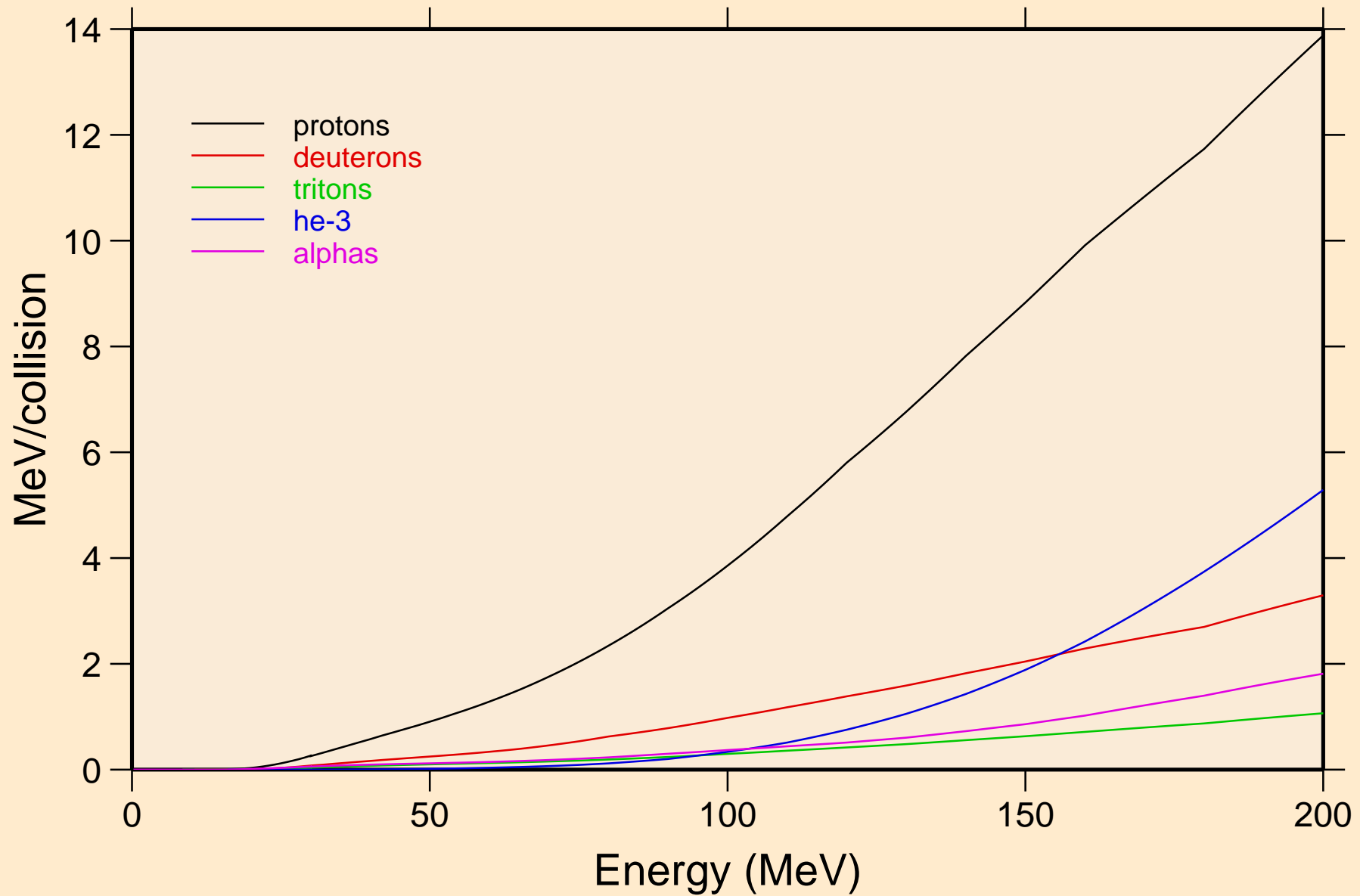


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14 MeV photon spectrum

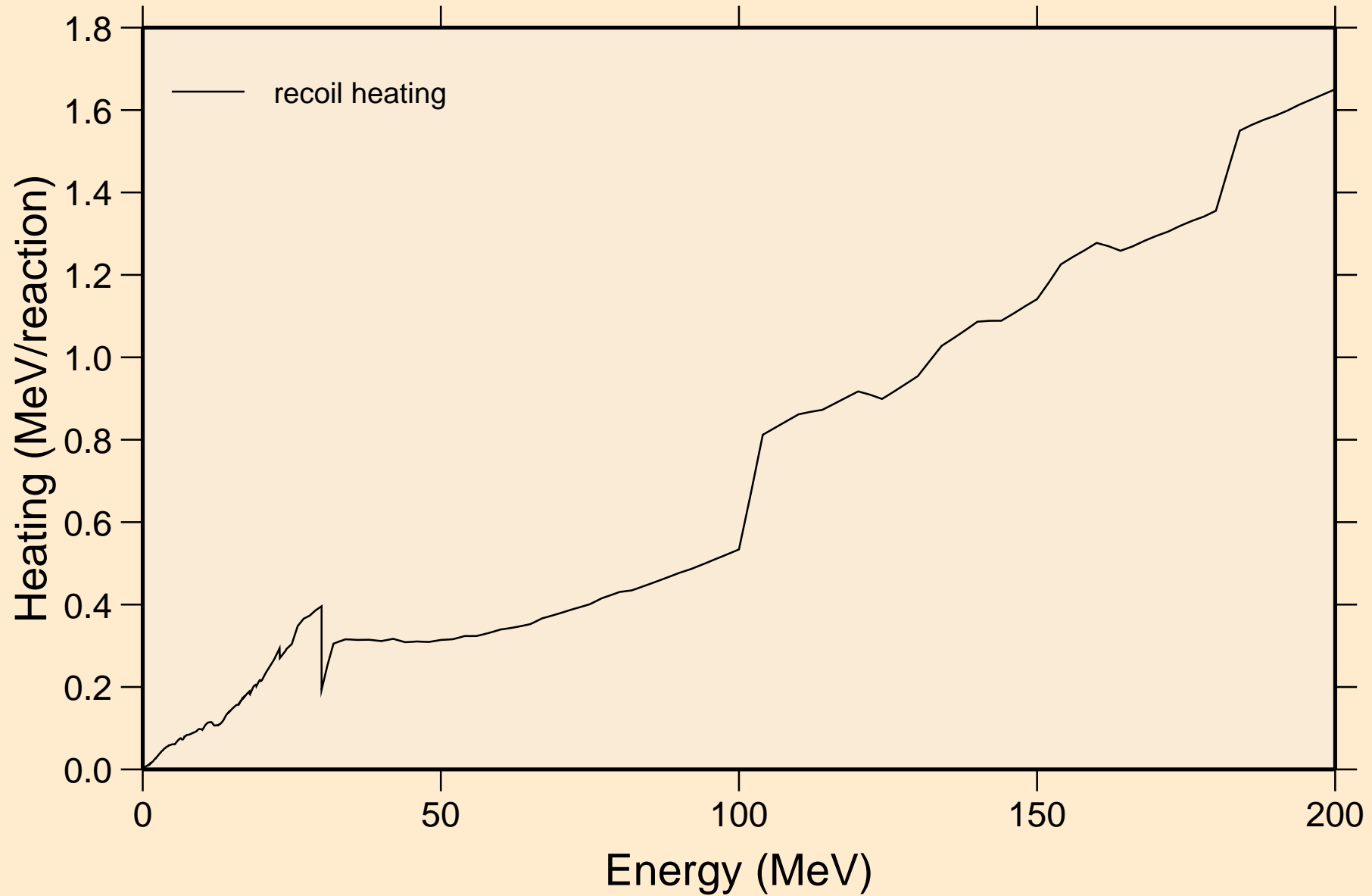




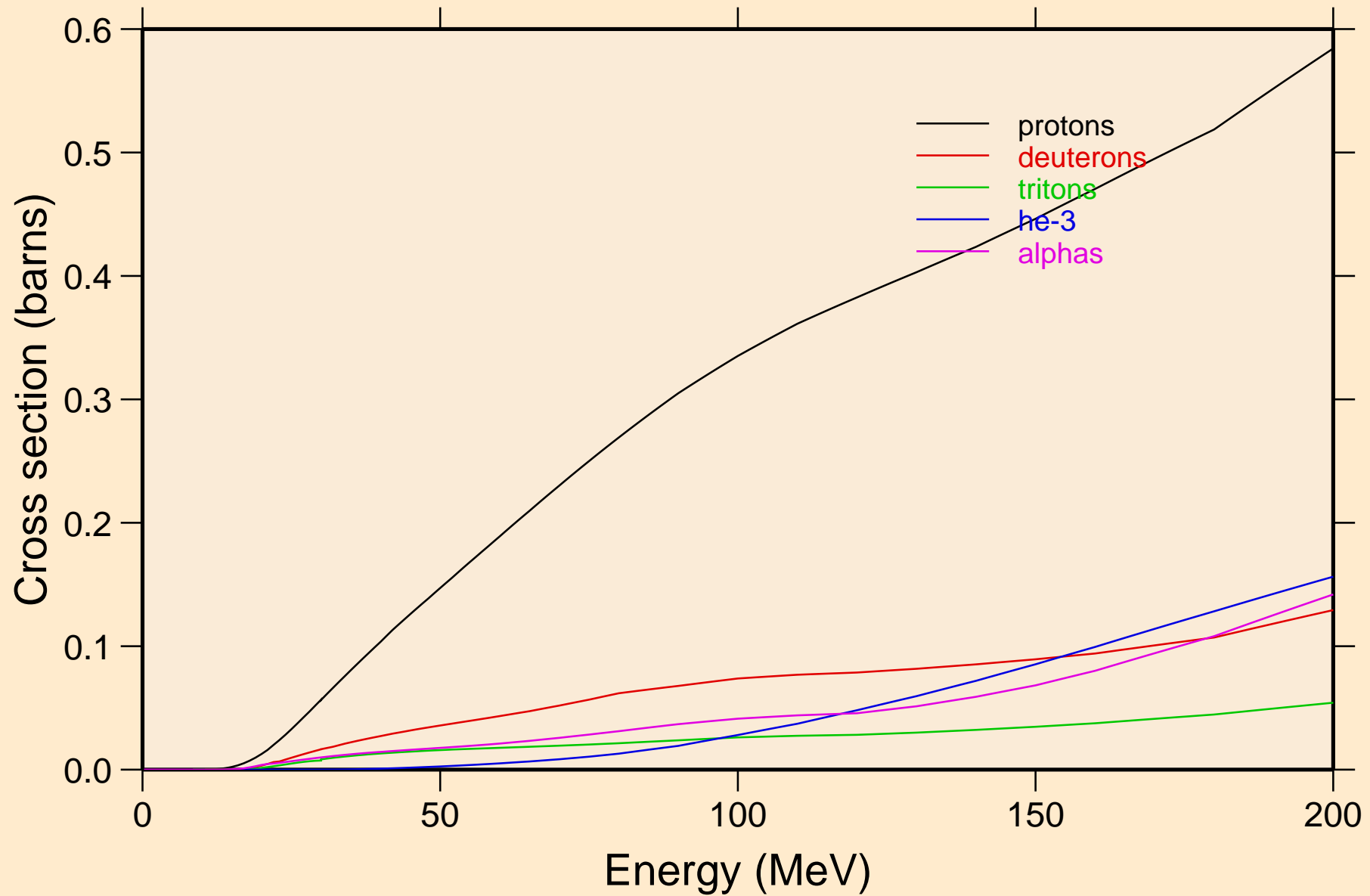
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Particle heating contributions



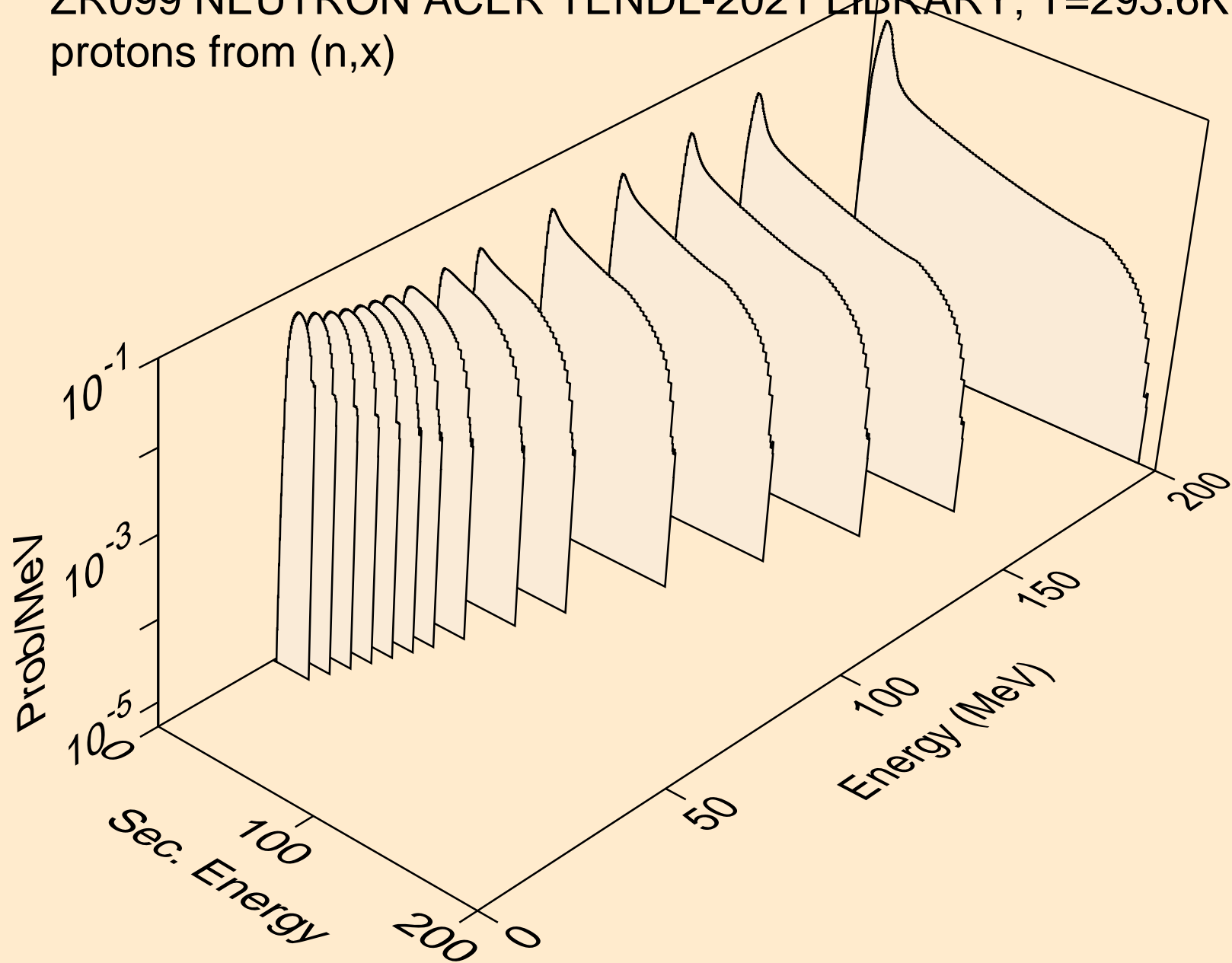
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Recoil Heating



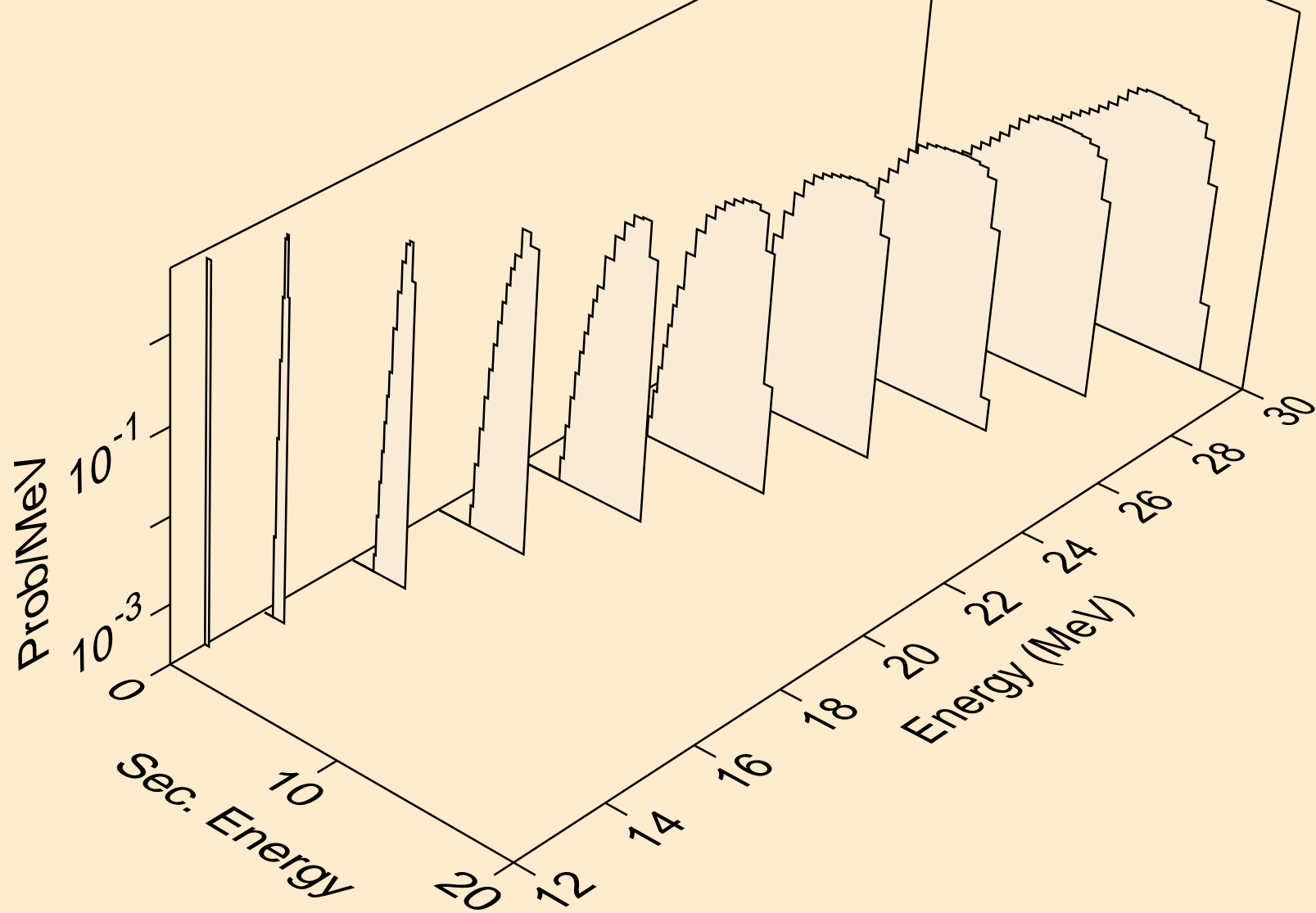
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Particle production cross sections



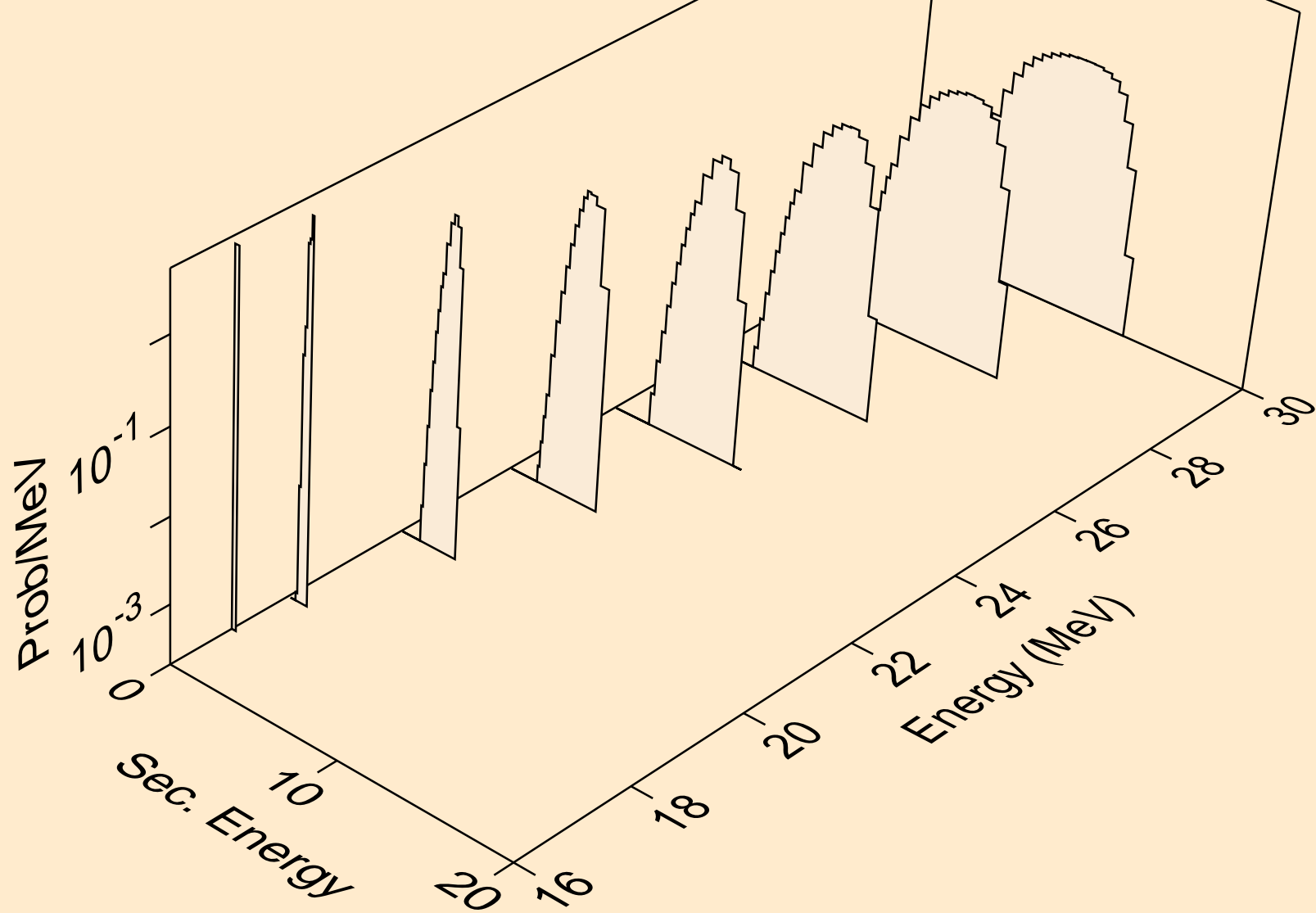
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protons from (n,x)



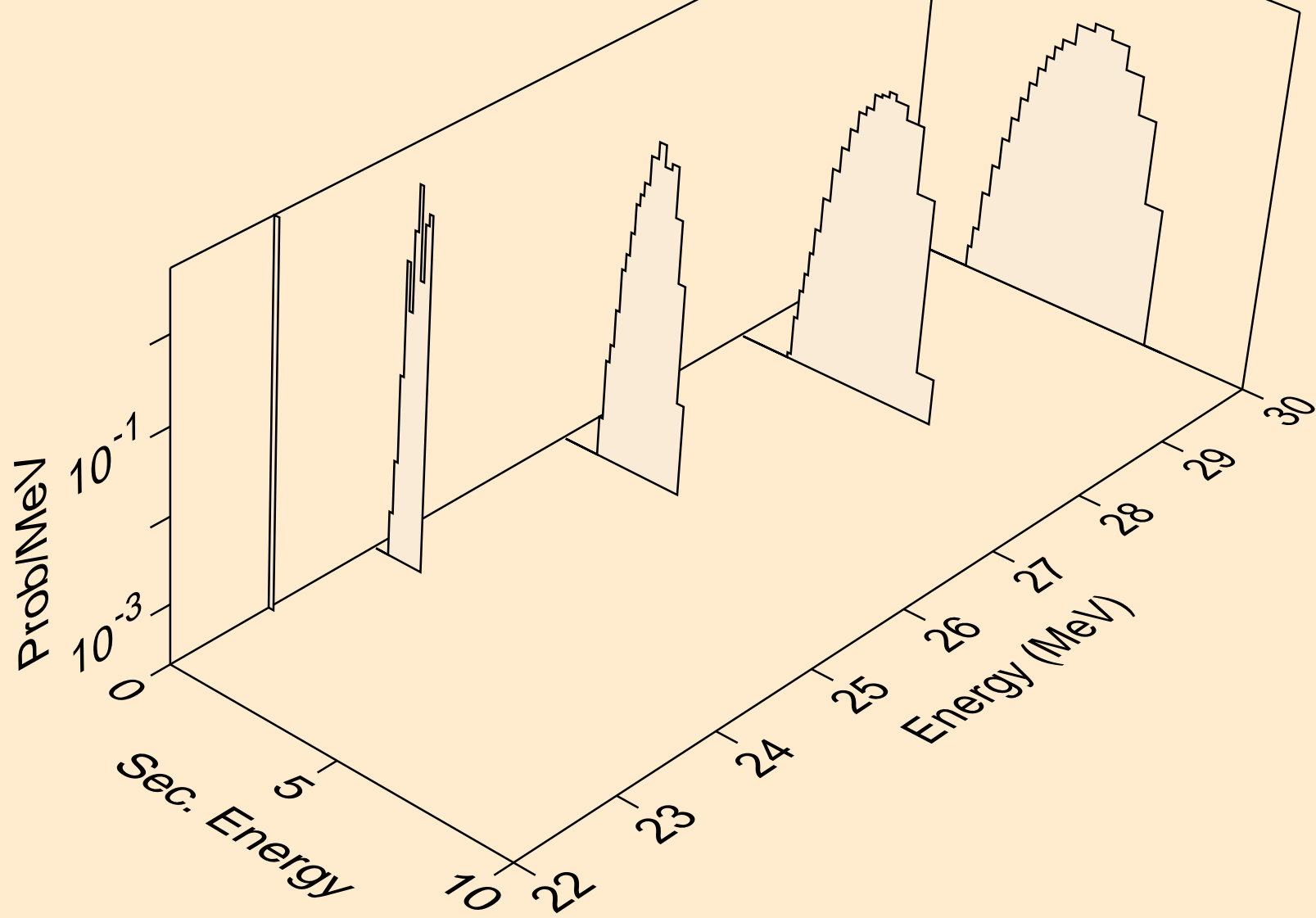
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protons from (n,n\*)p



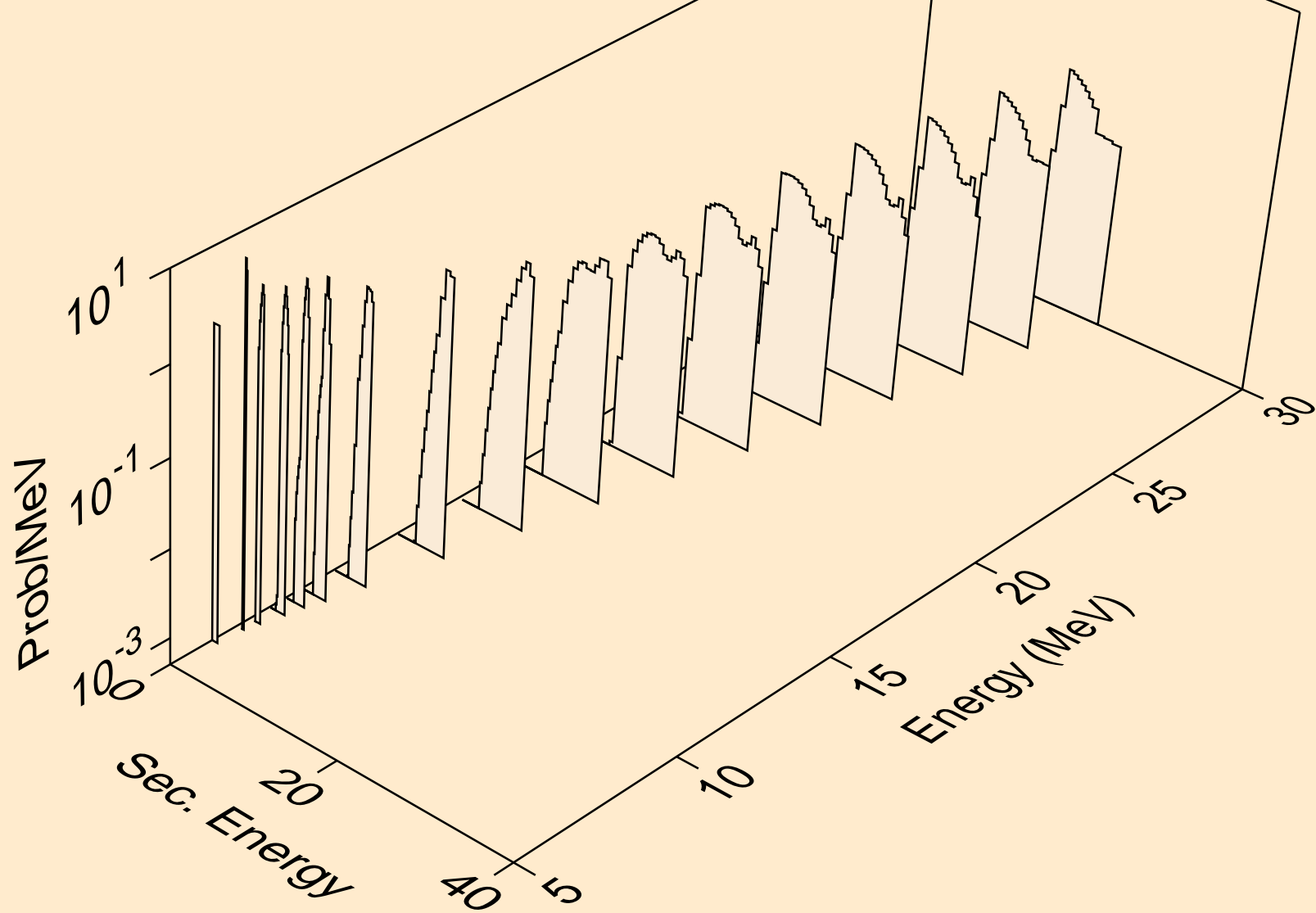
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,3np)

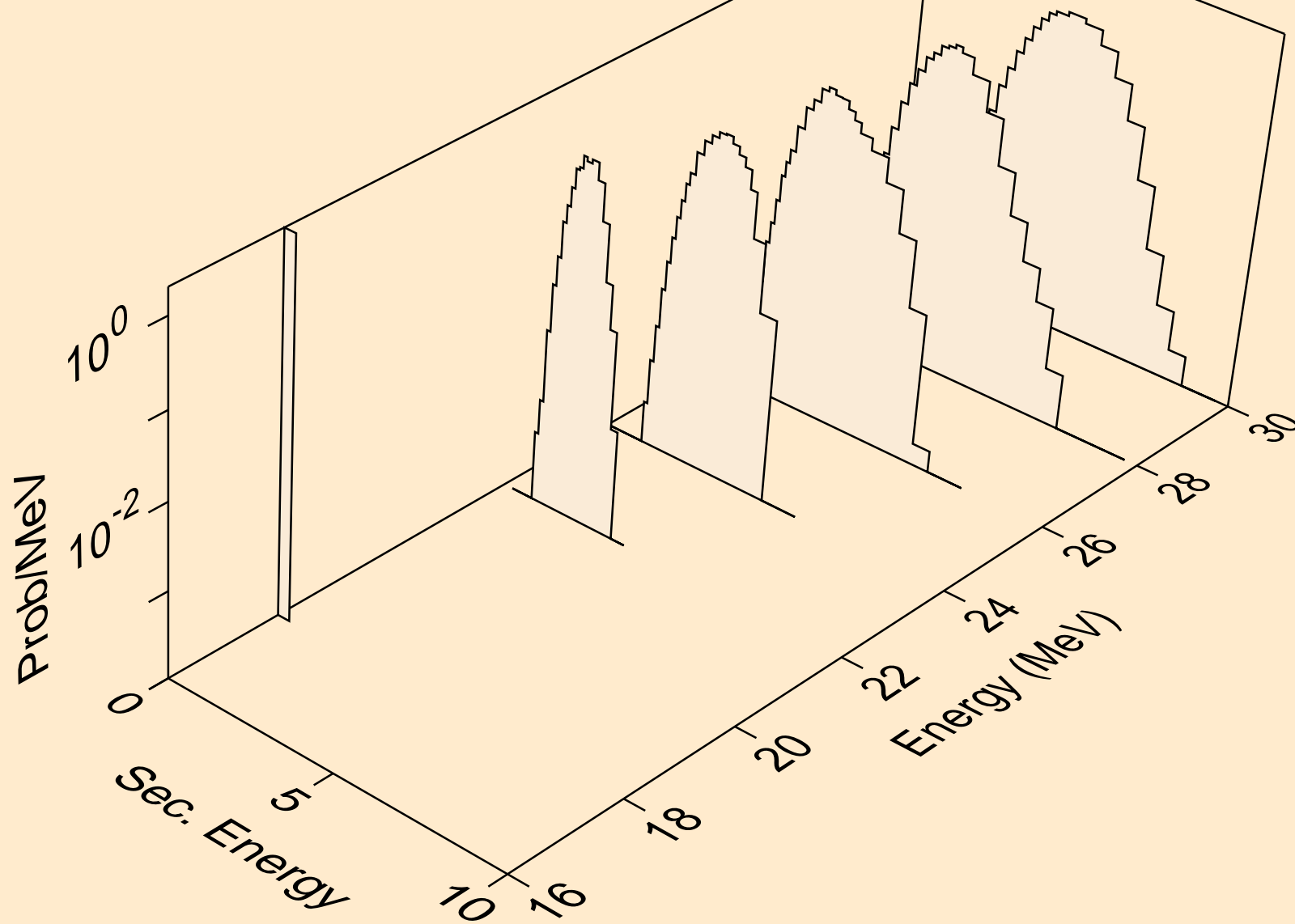


ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

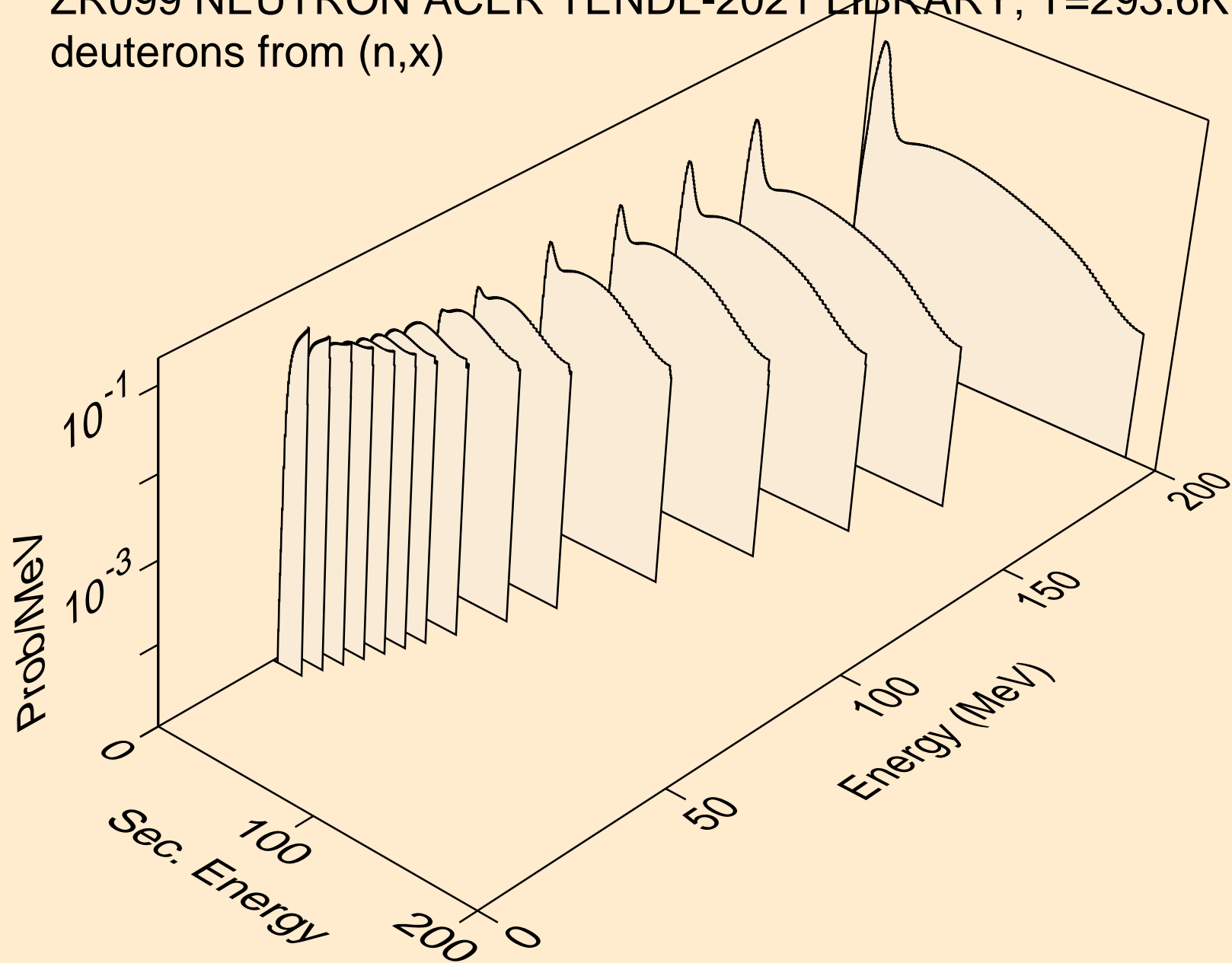




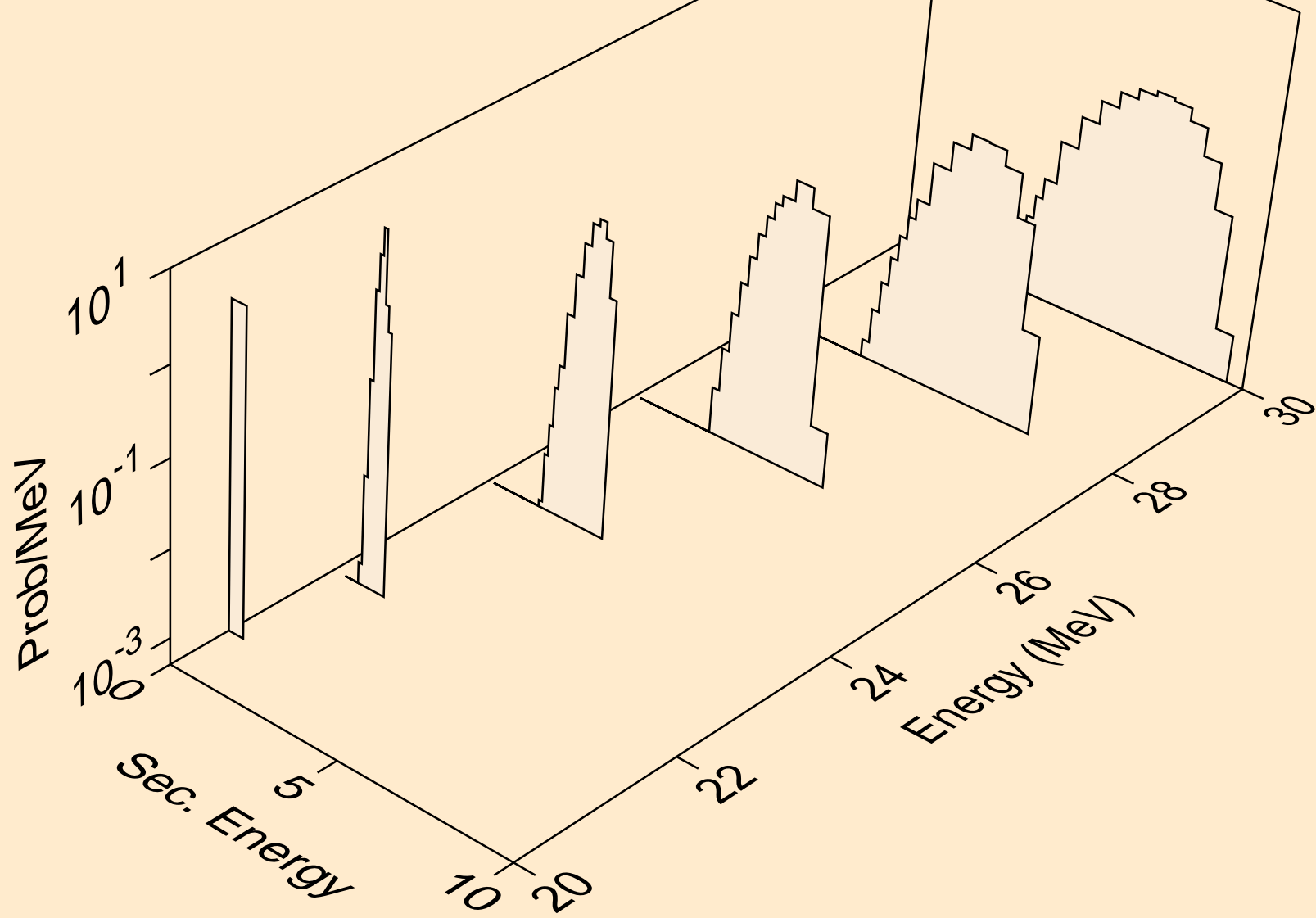
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protons from (n,2p)



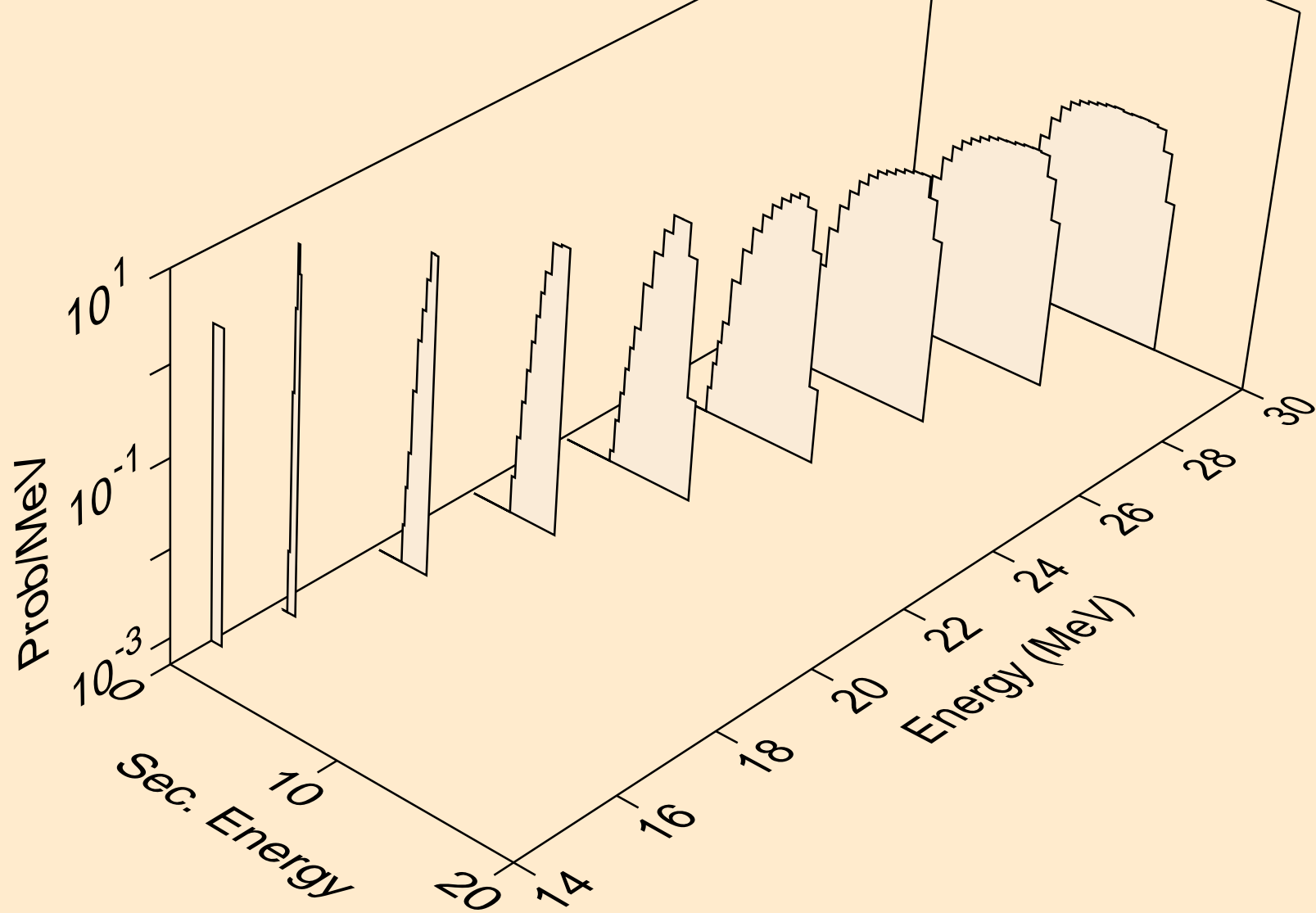
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deuterons from (n,x)



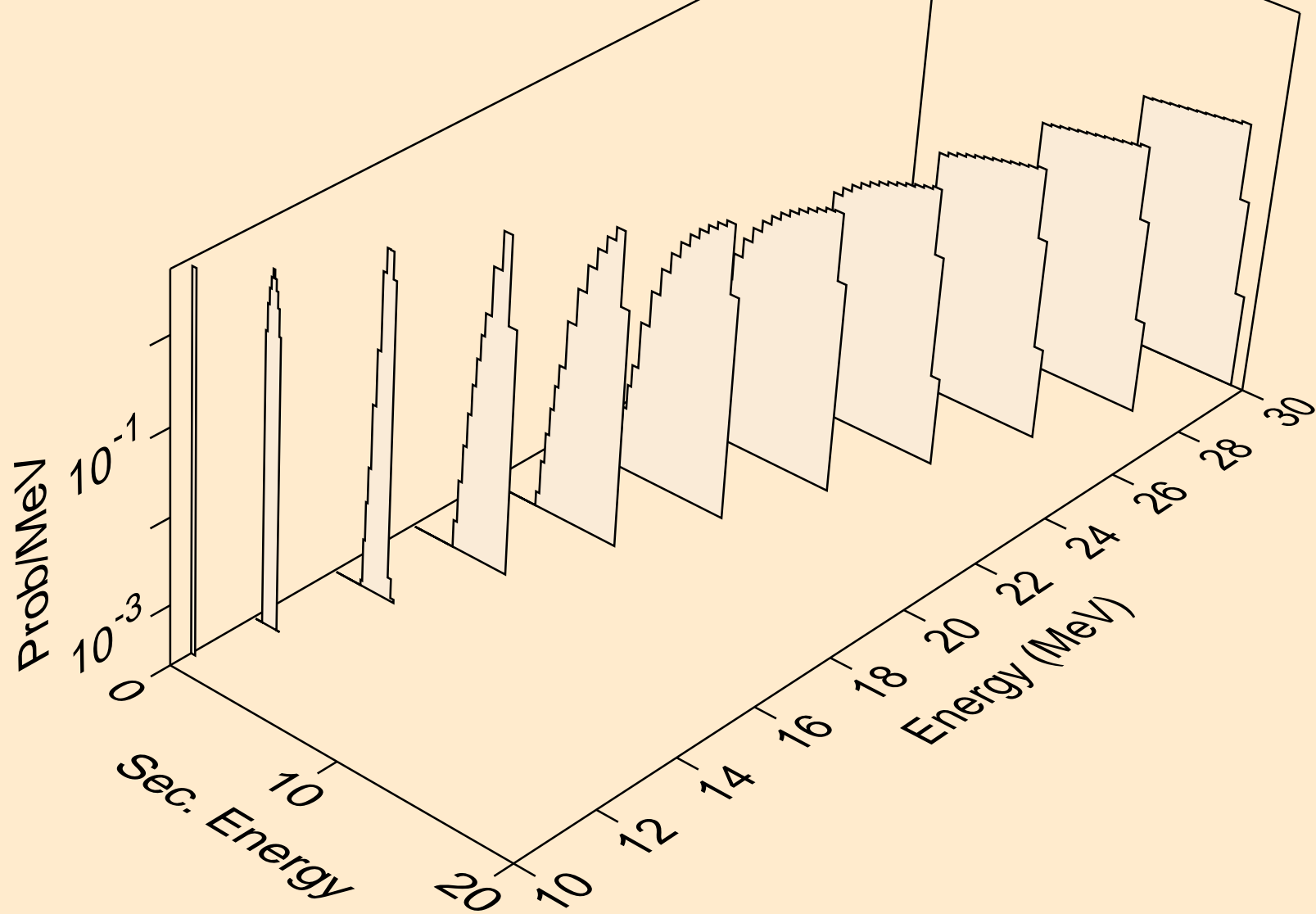
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deuterons from (n,2nd)



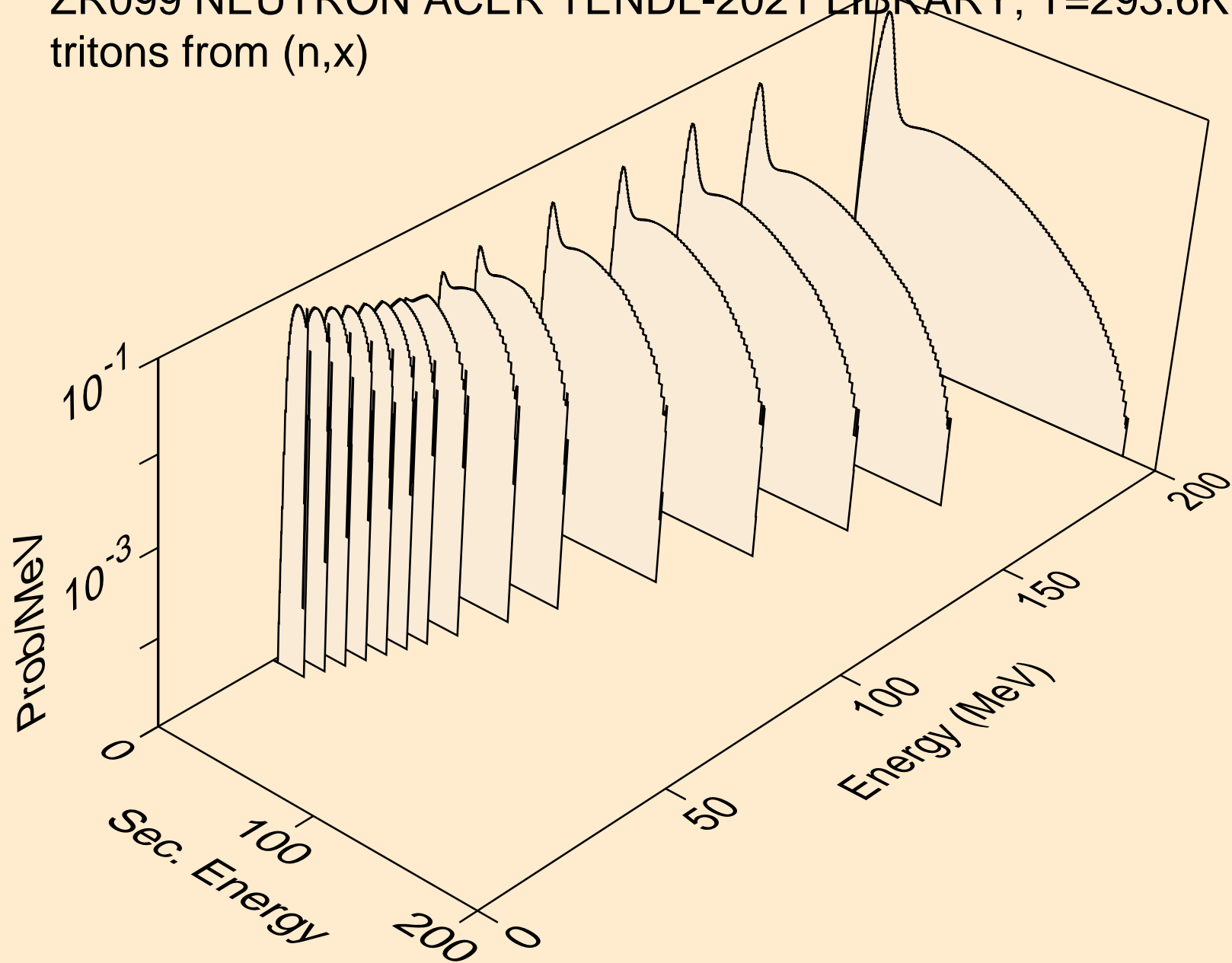
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deuterons from (n,n\*)d



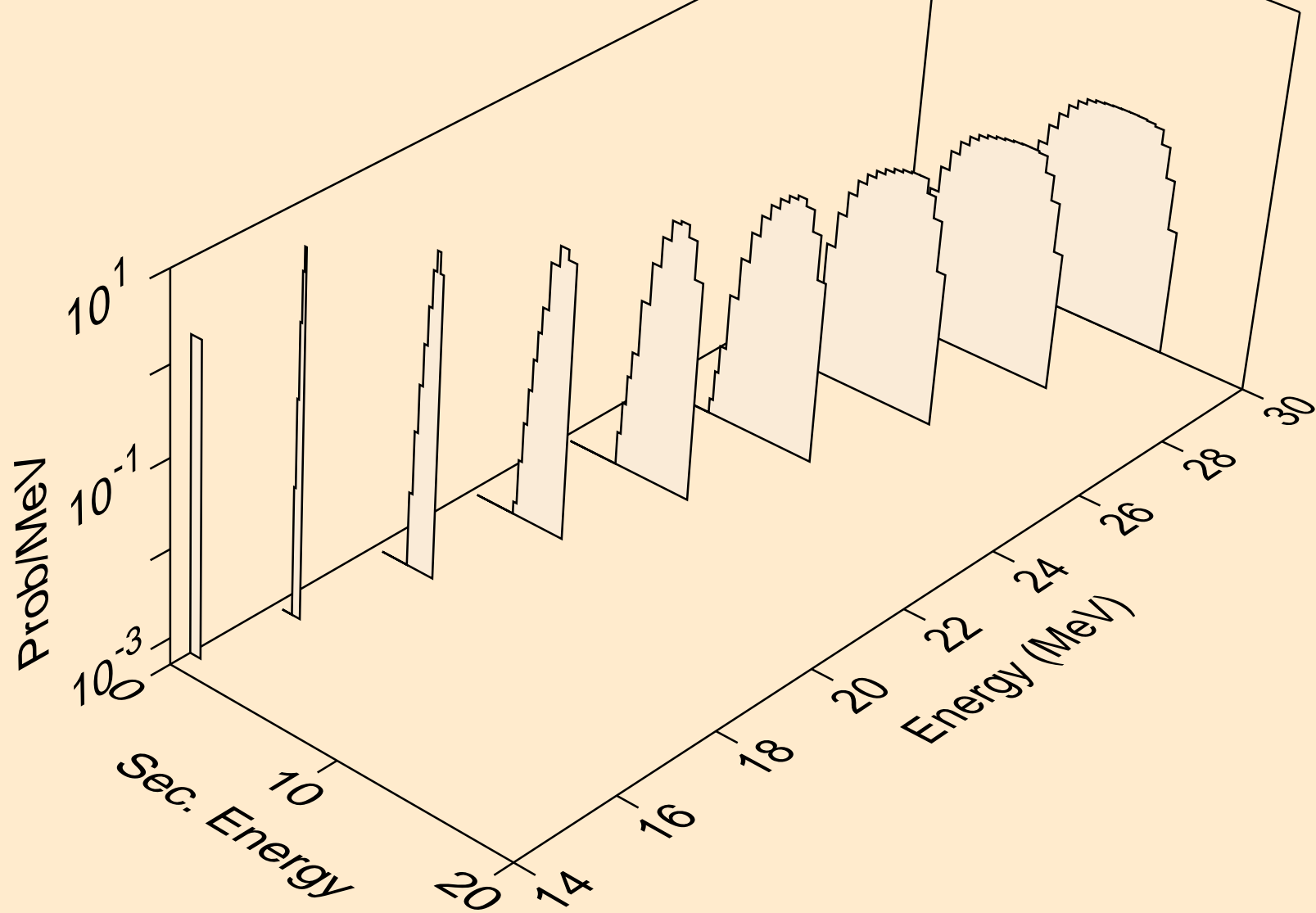
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deuterons from (n,d)



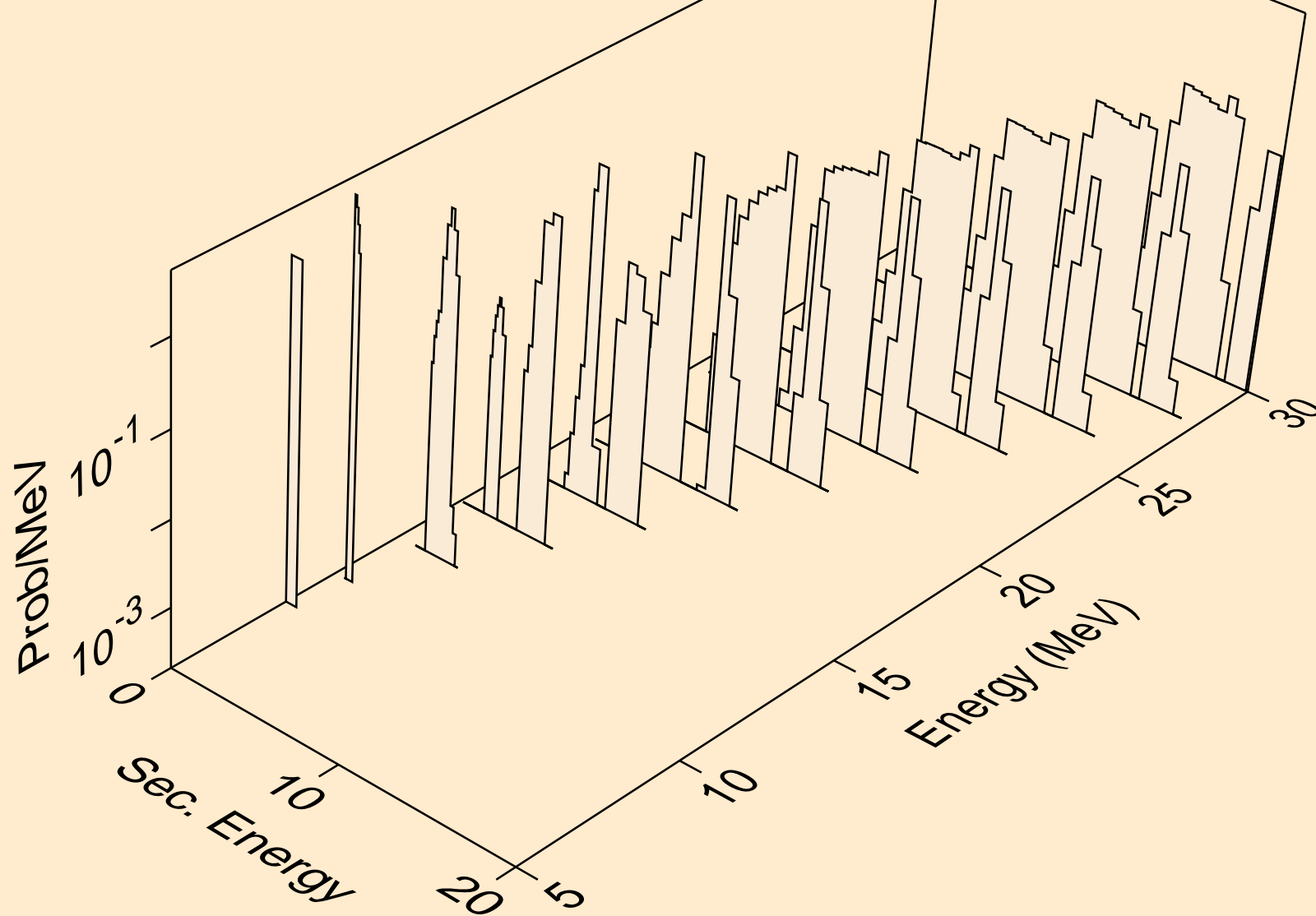
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t

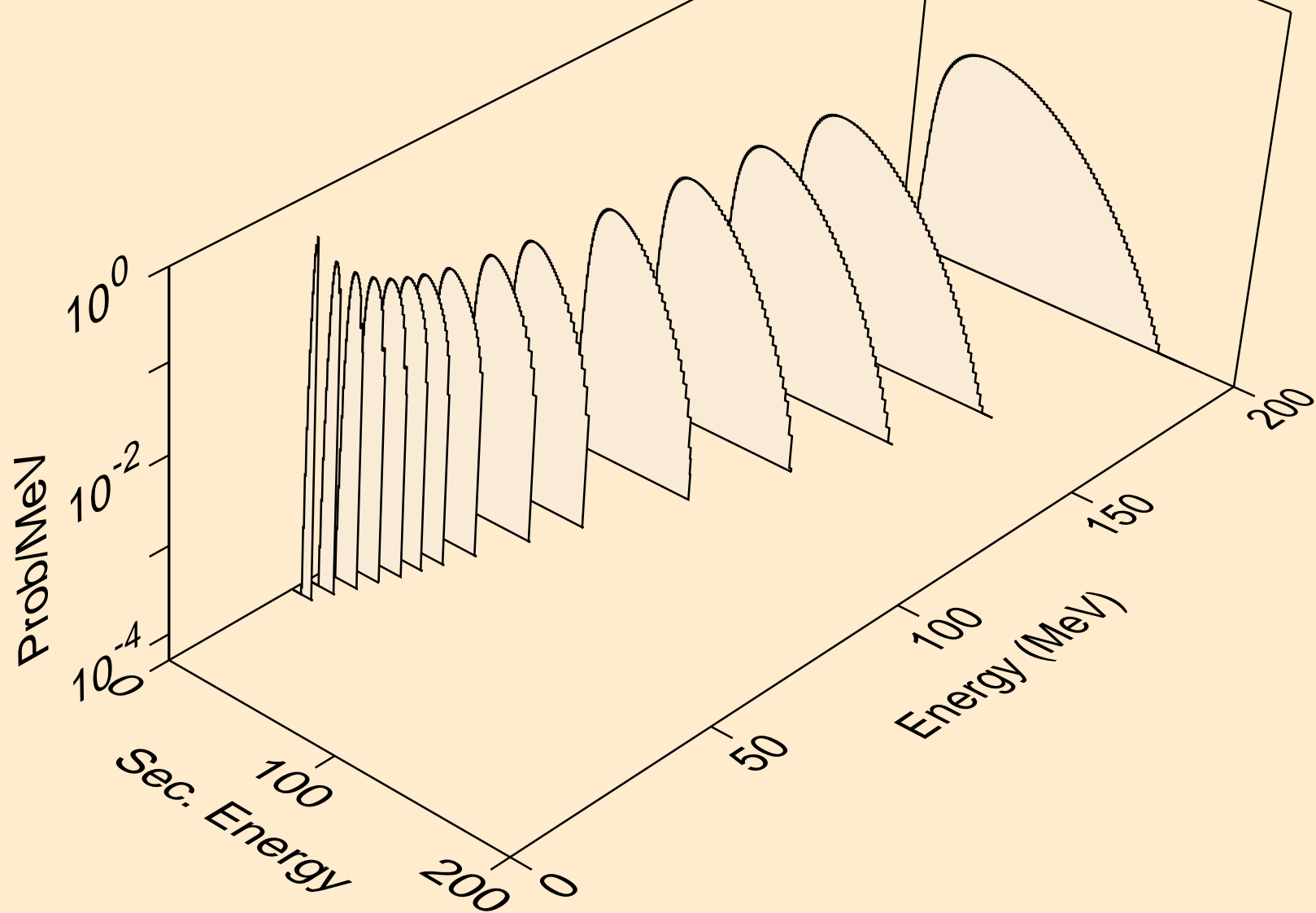


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tritons from (n,t)

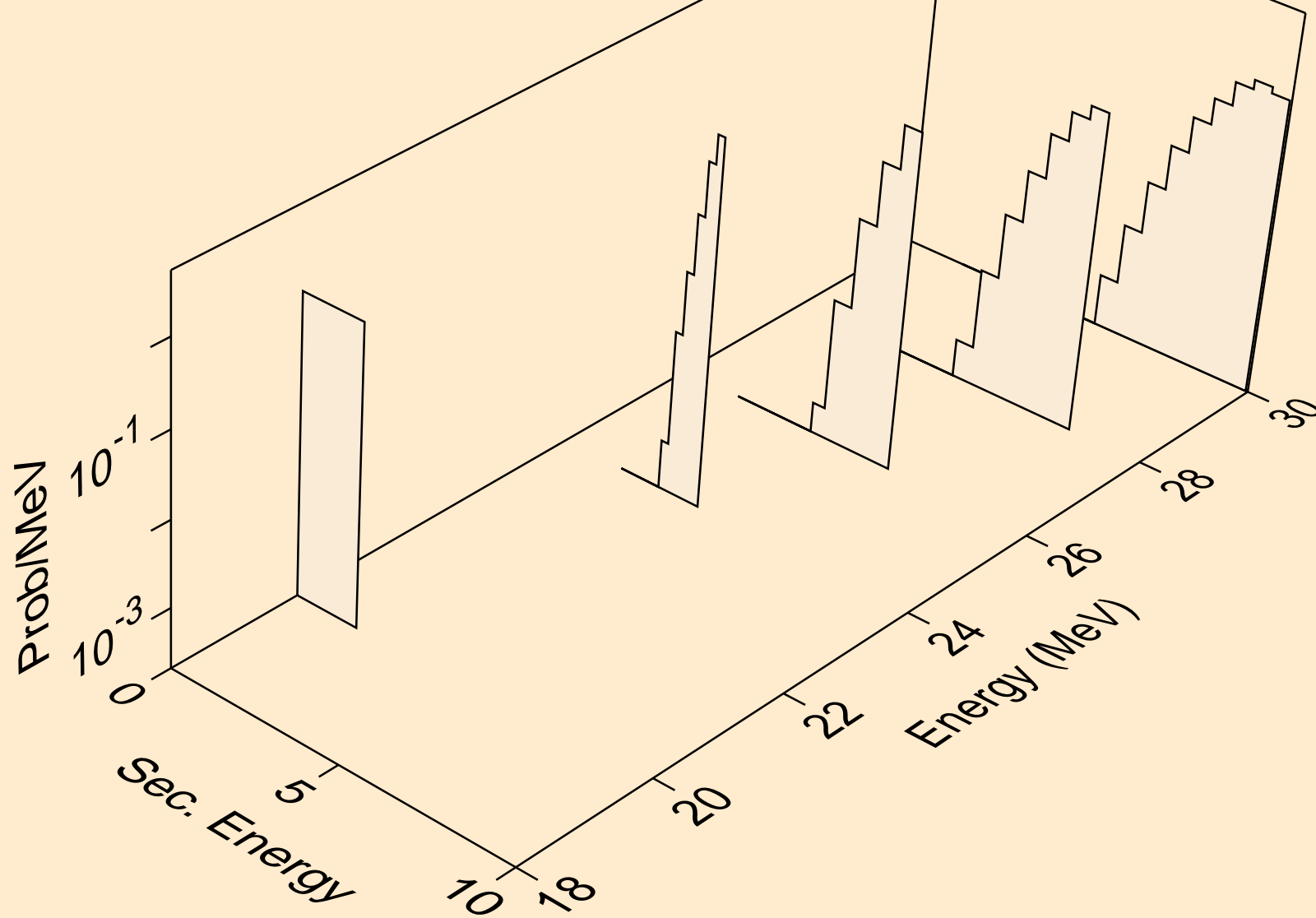




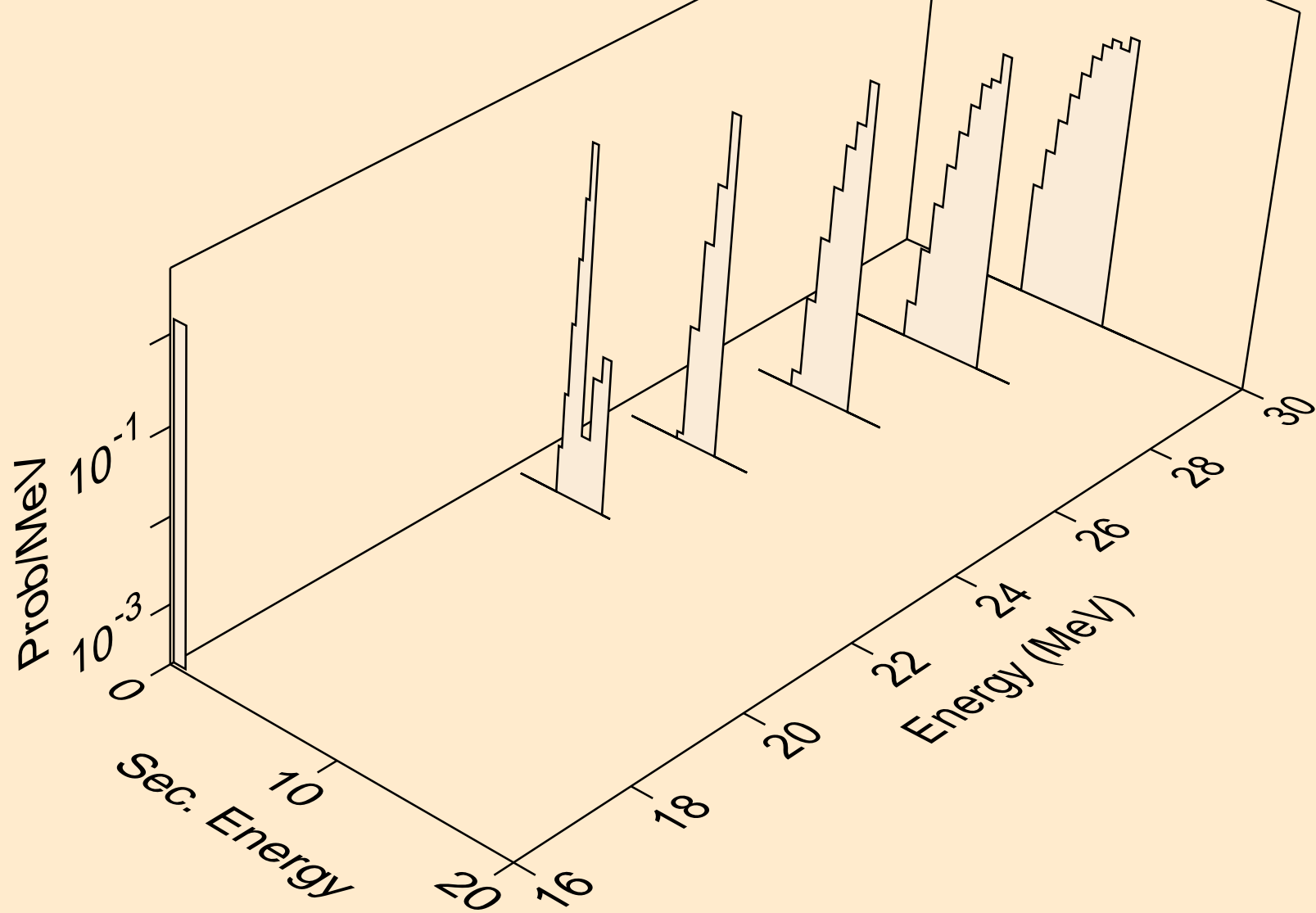
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)



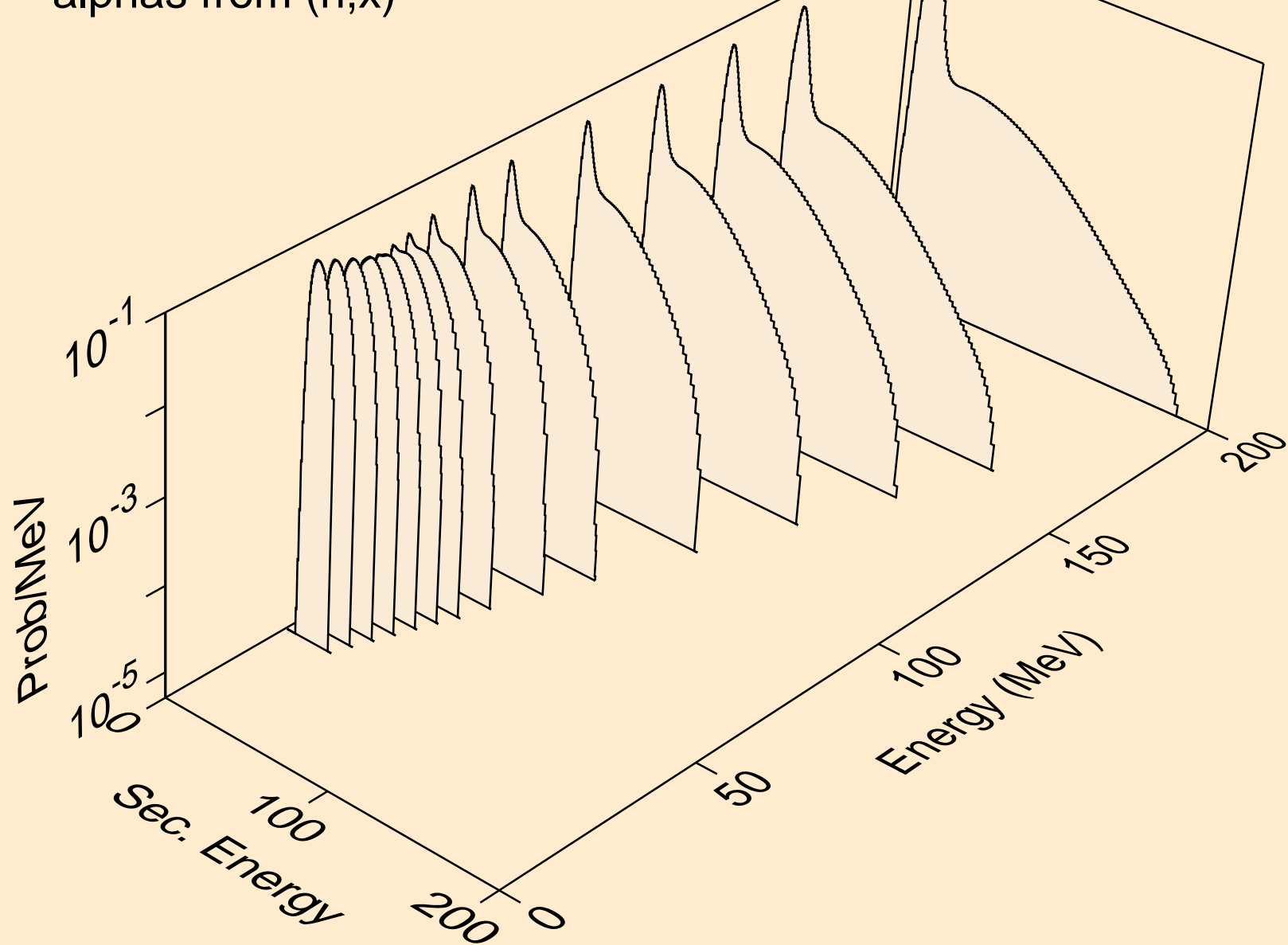
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



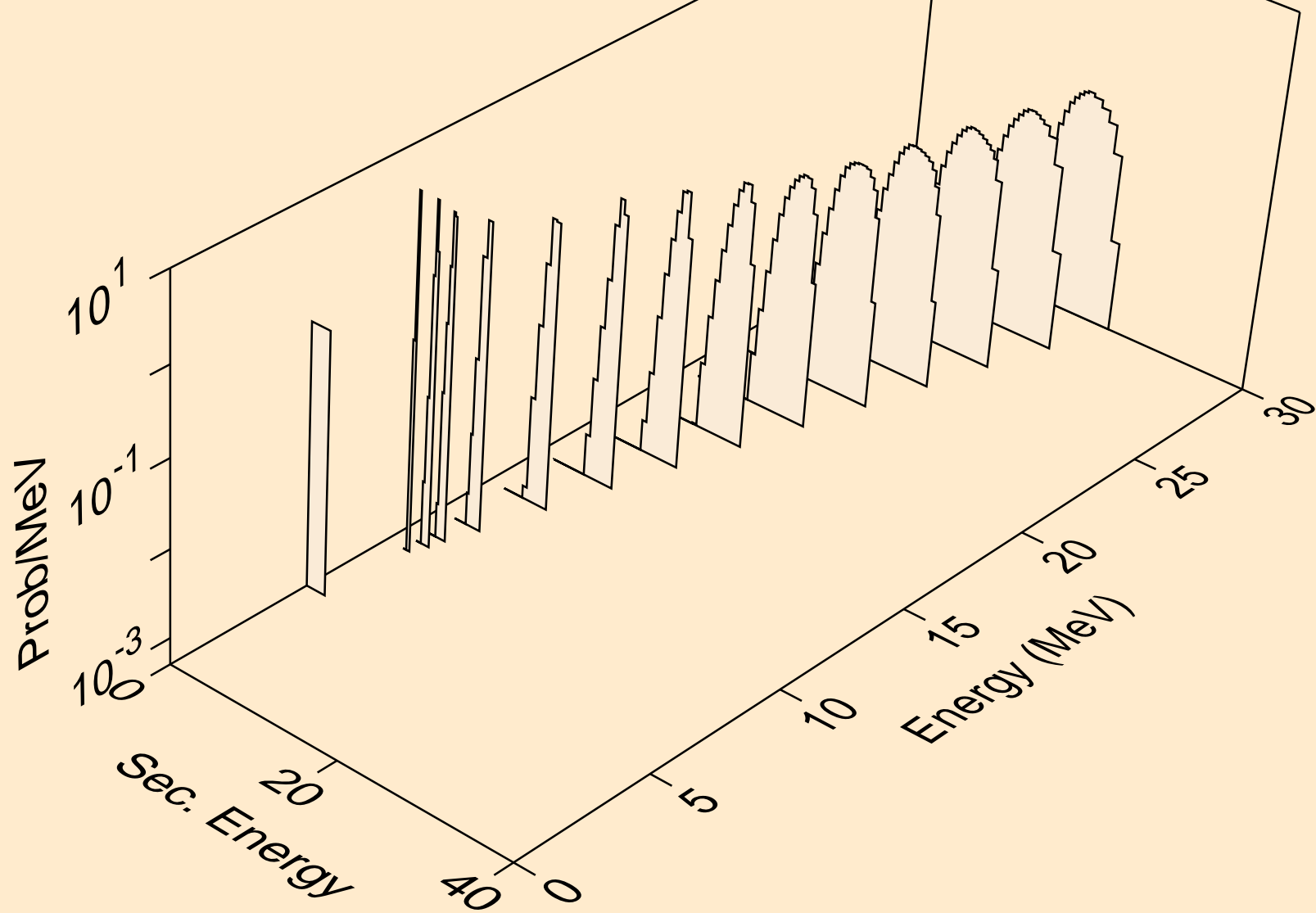
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he3s from (n,he3)



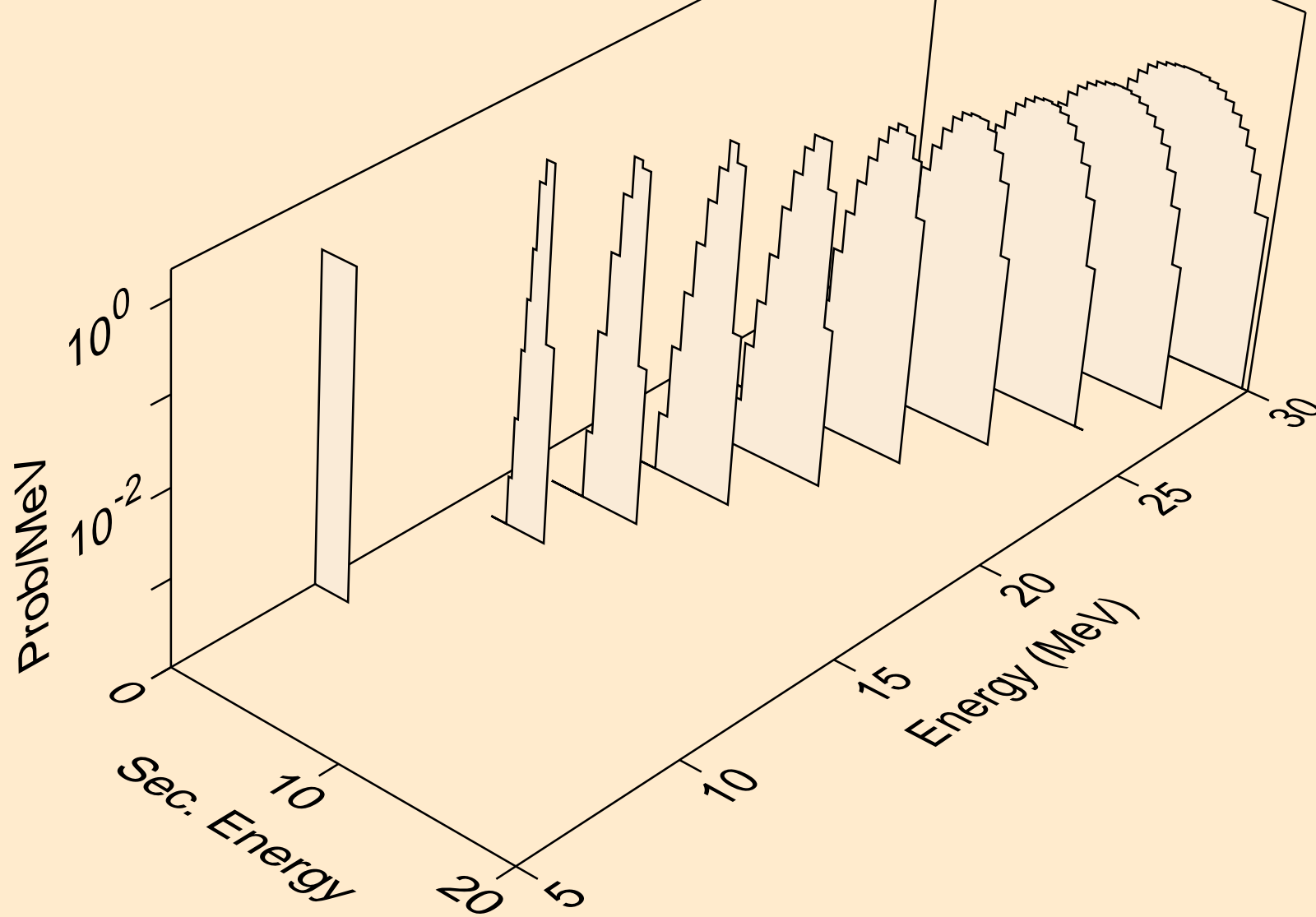
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



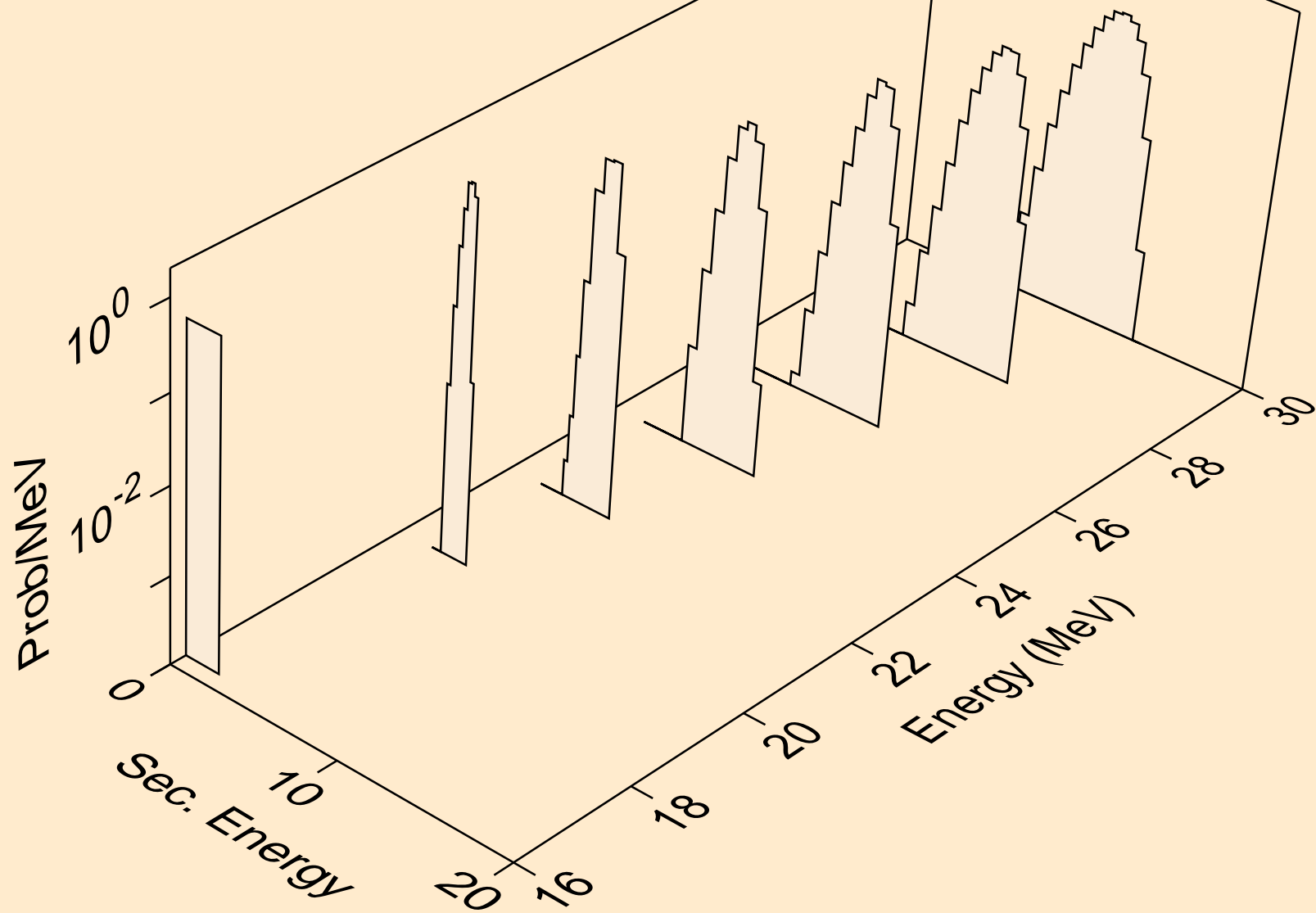
ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



ZR099 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)

