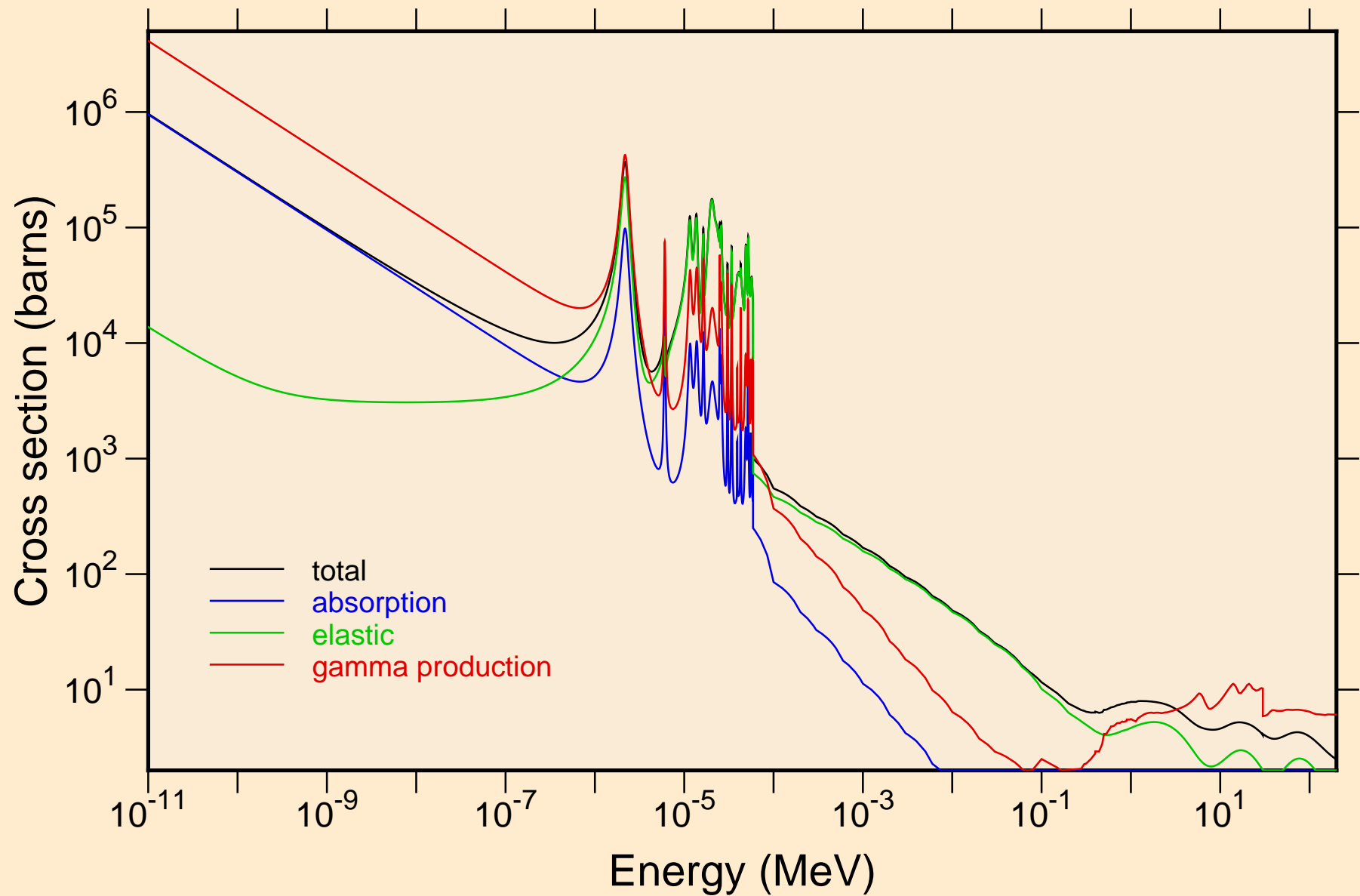
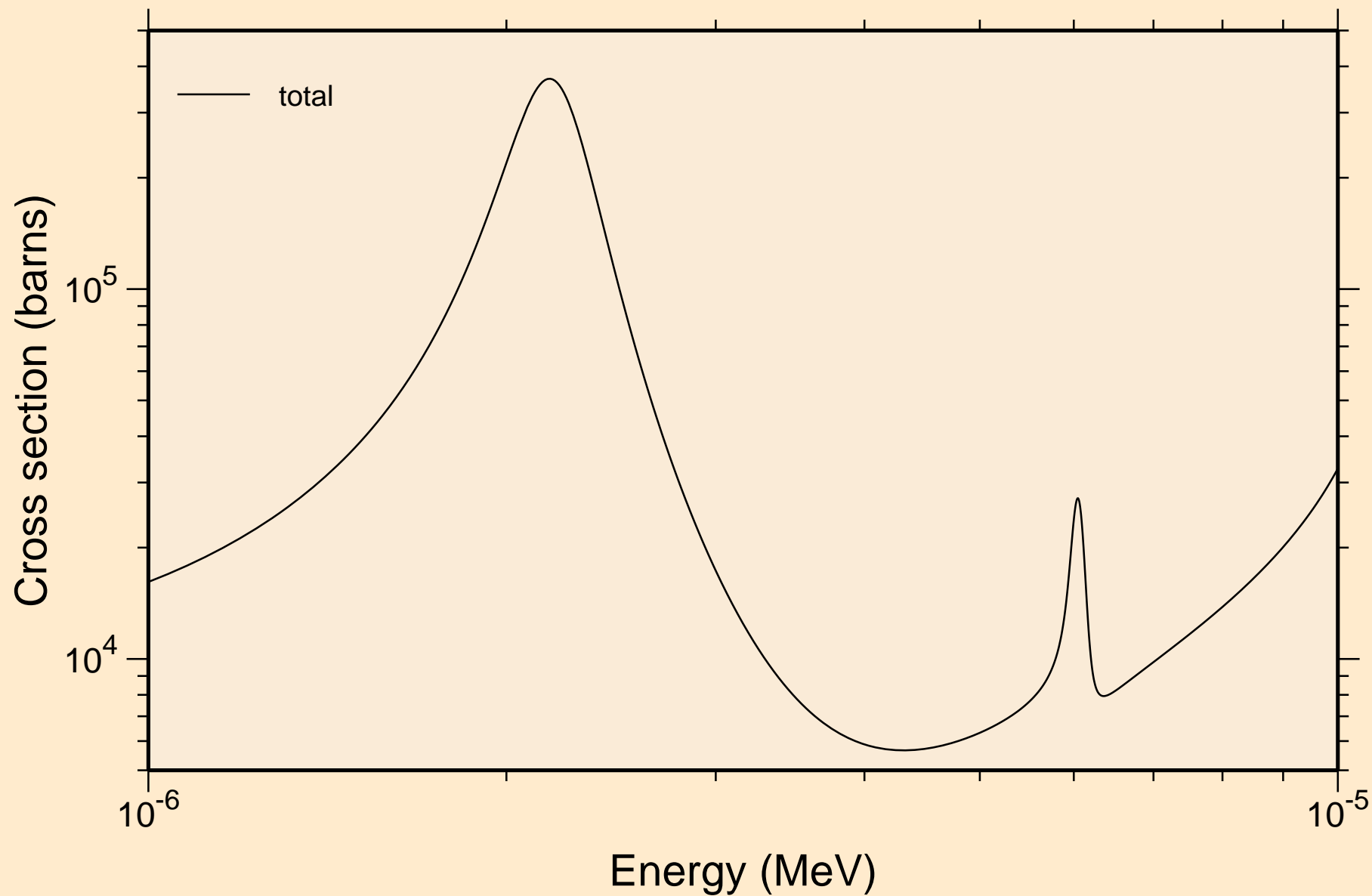


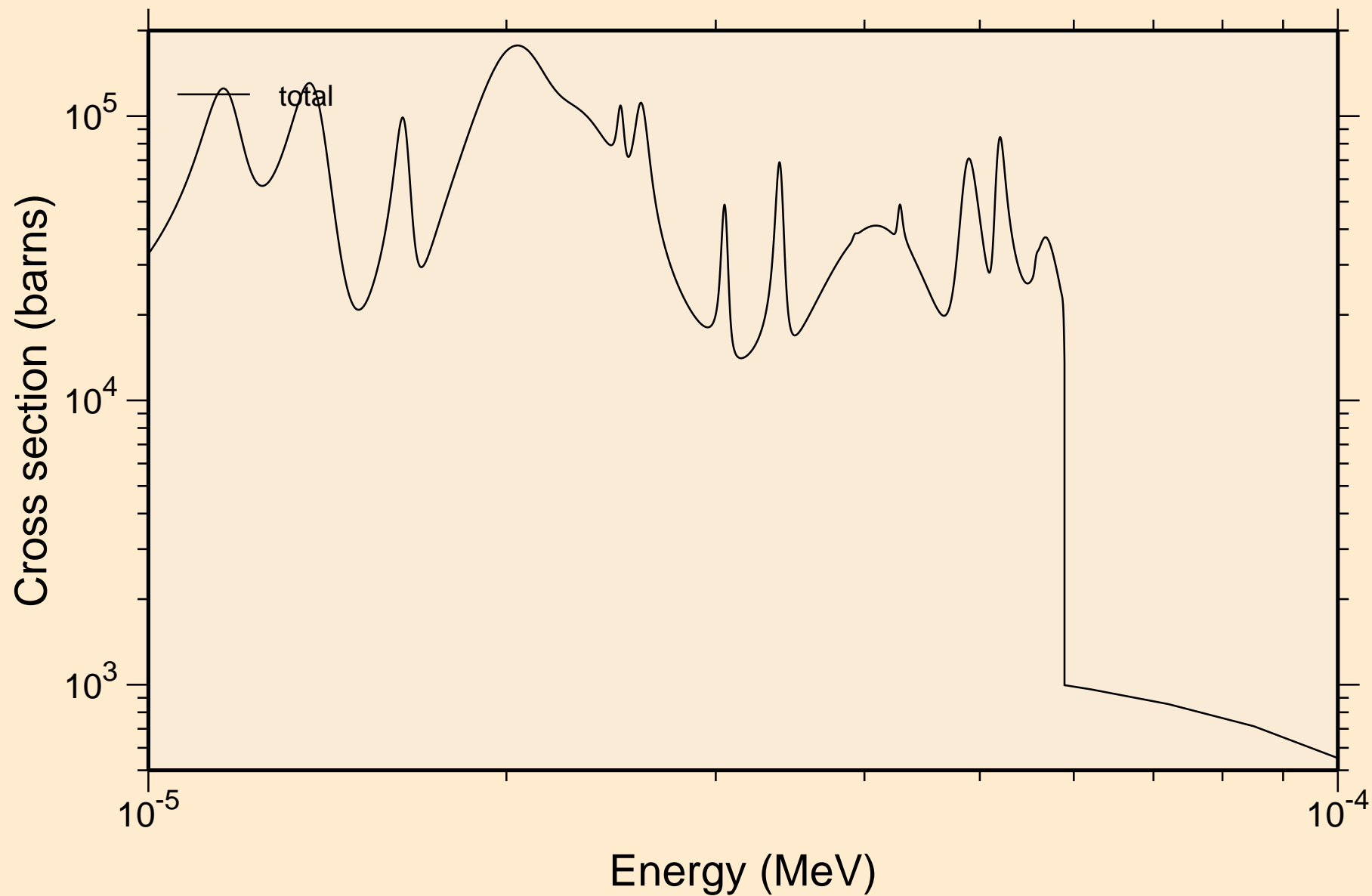
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



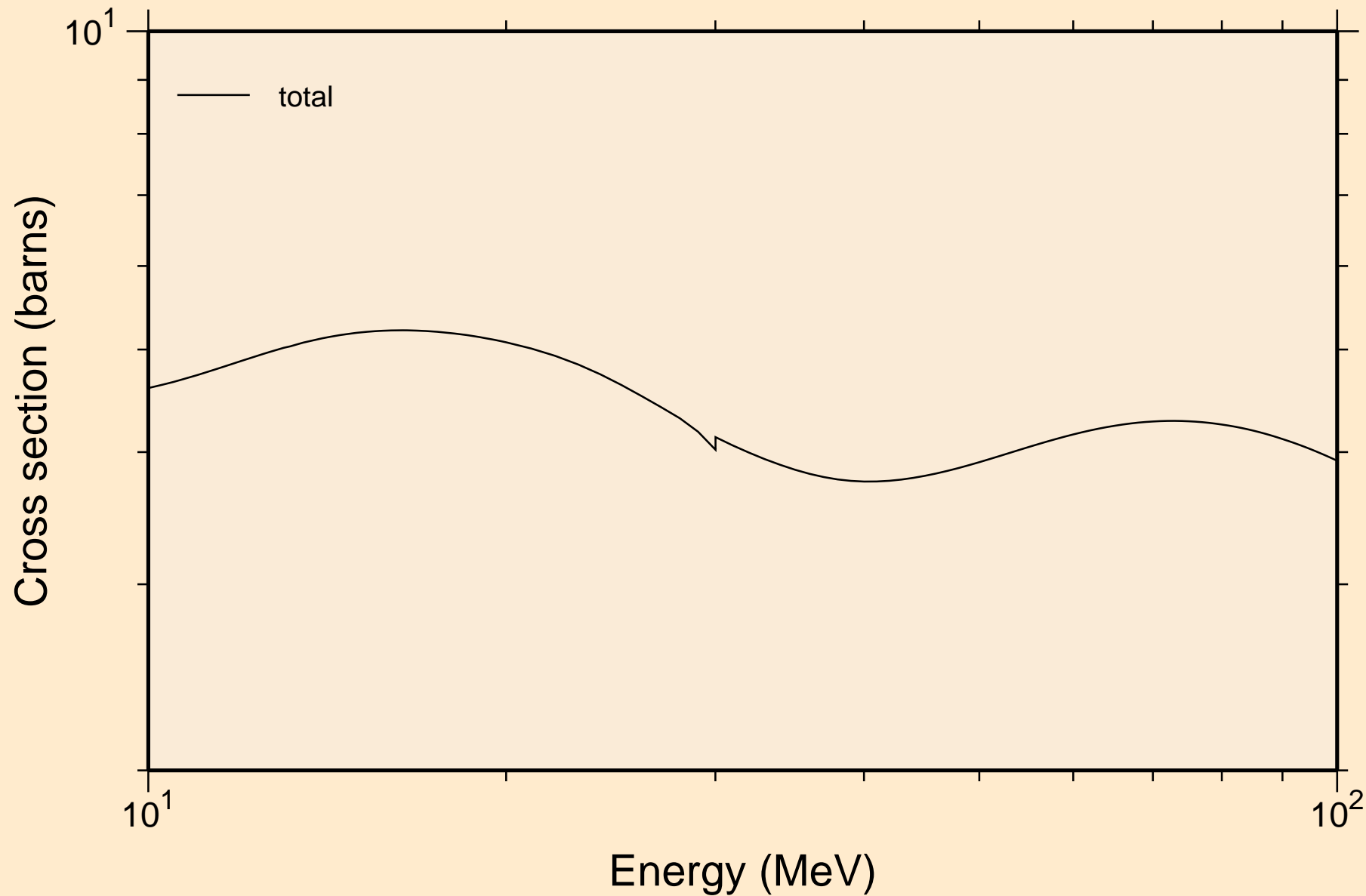
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resonance total cross section



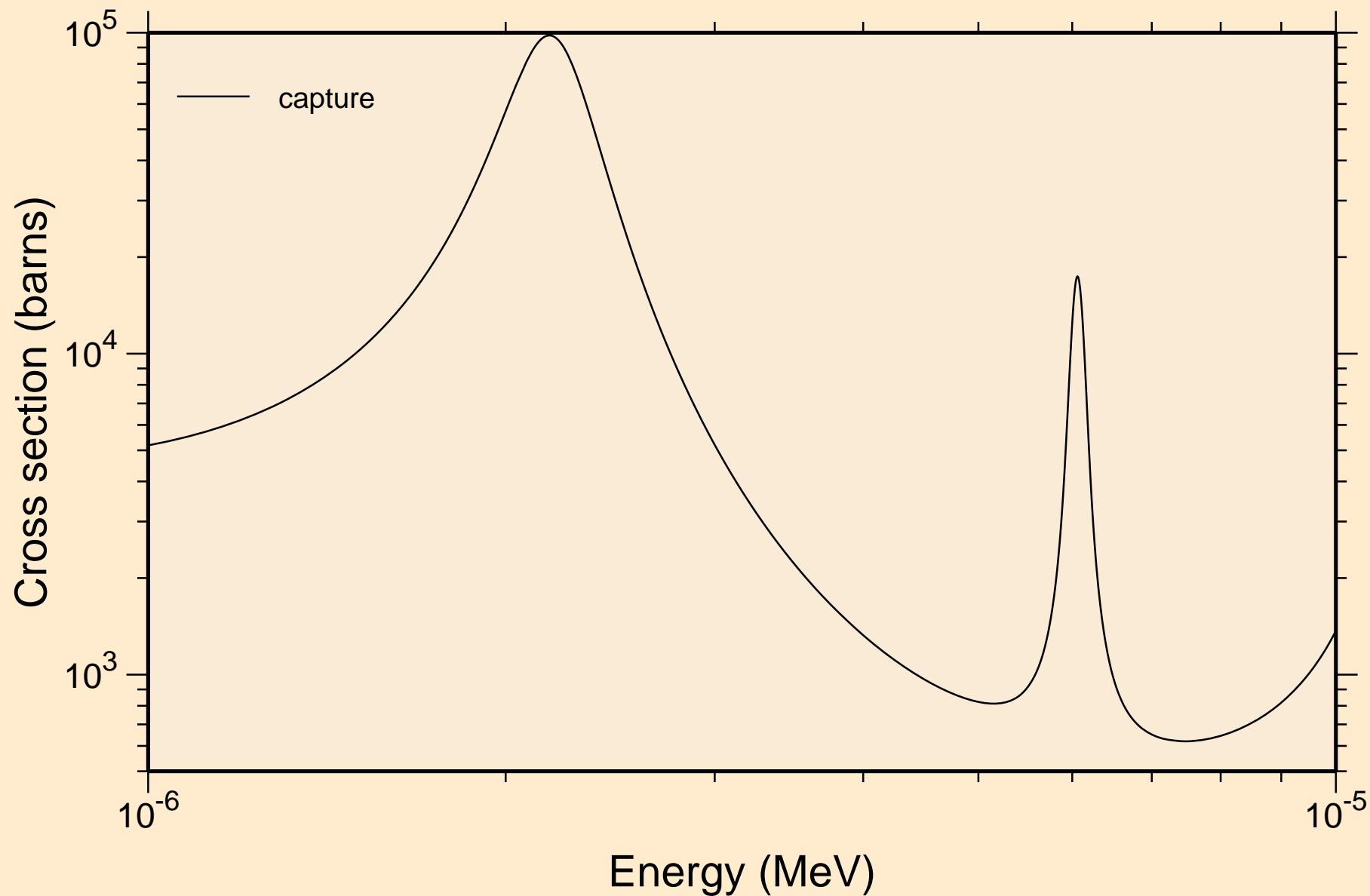
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resonance total cross section



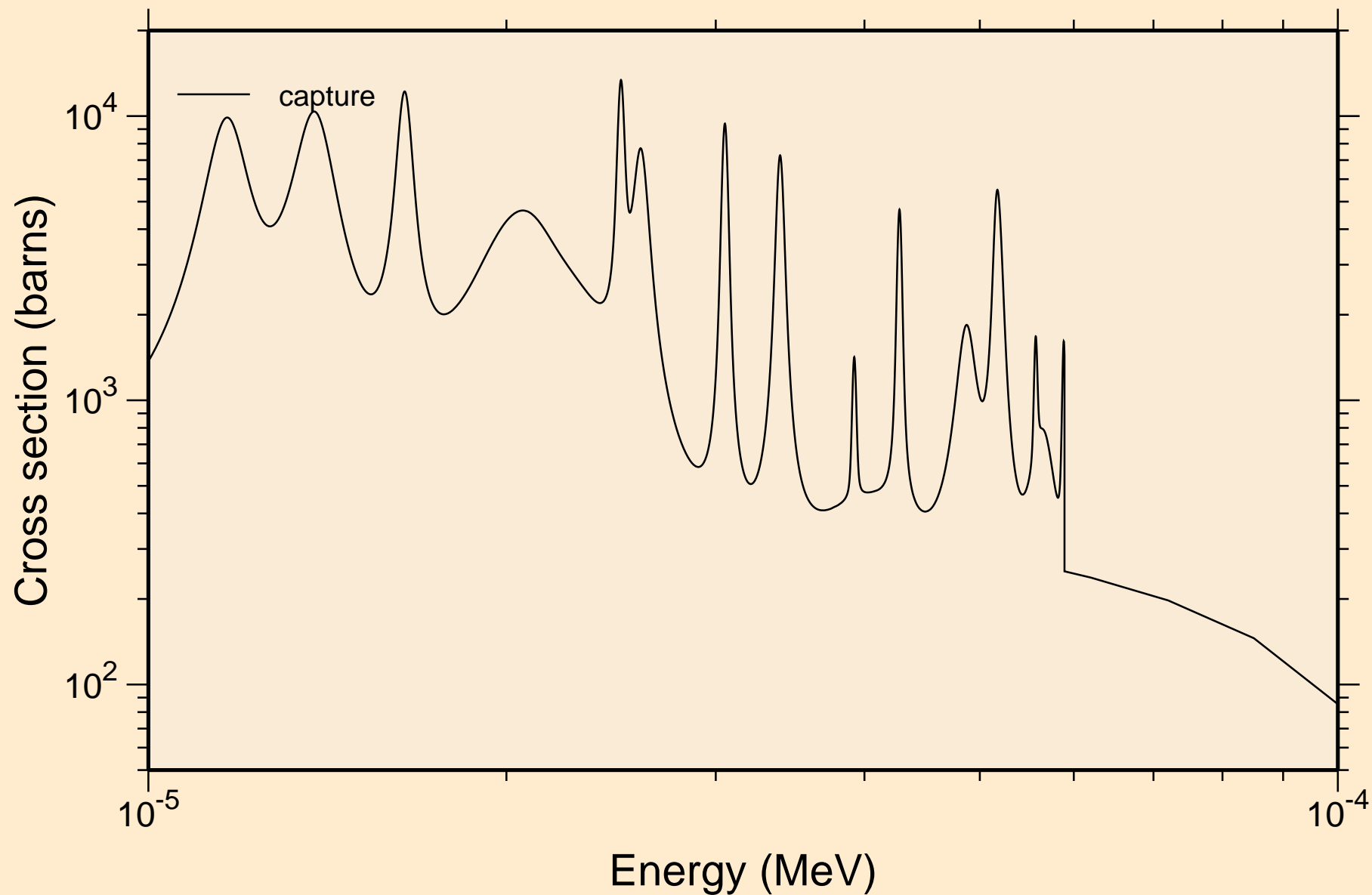
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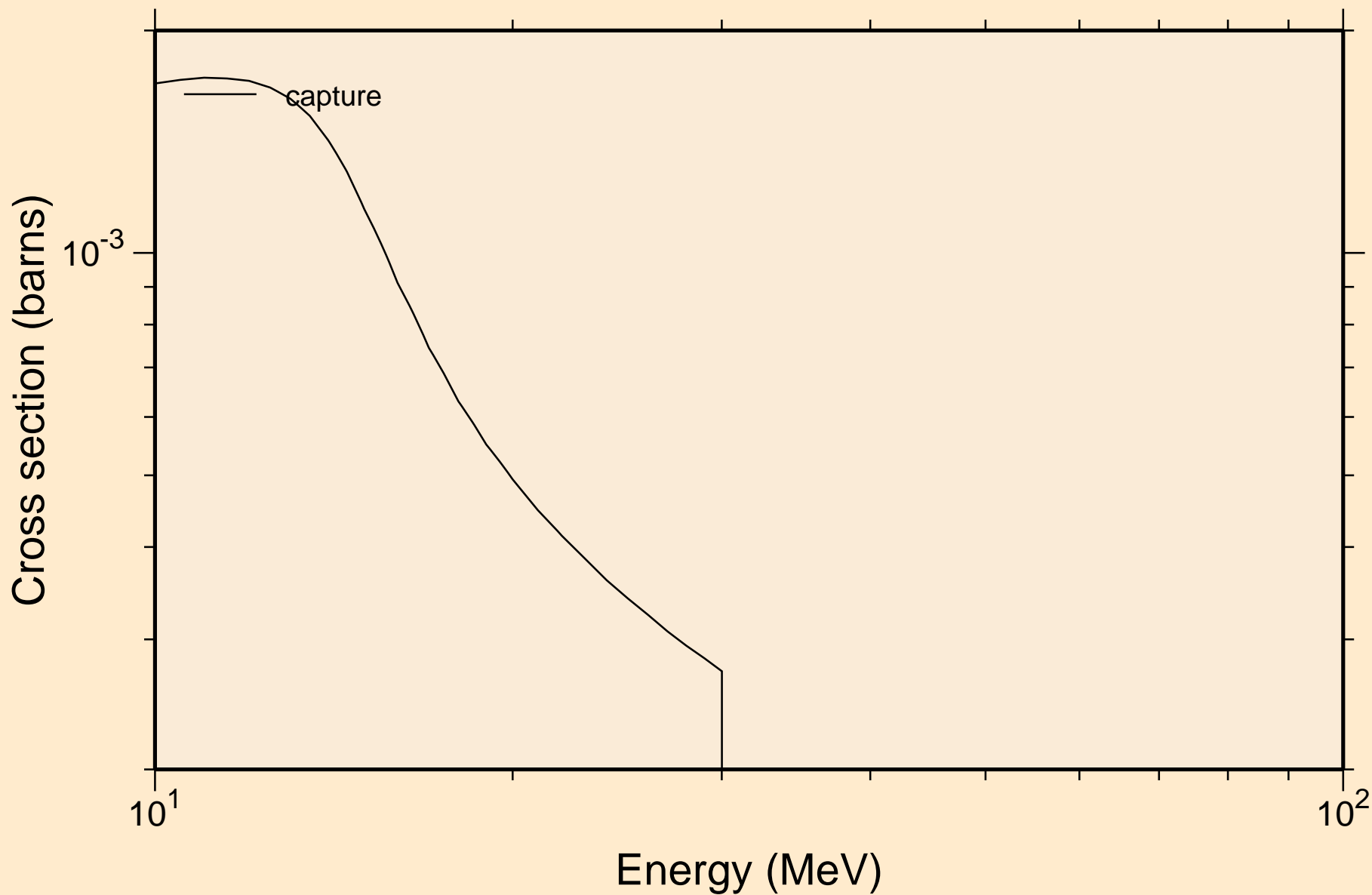
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resonance absorption cross sections



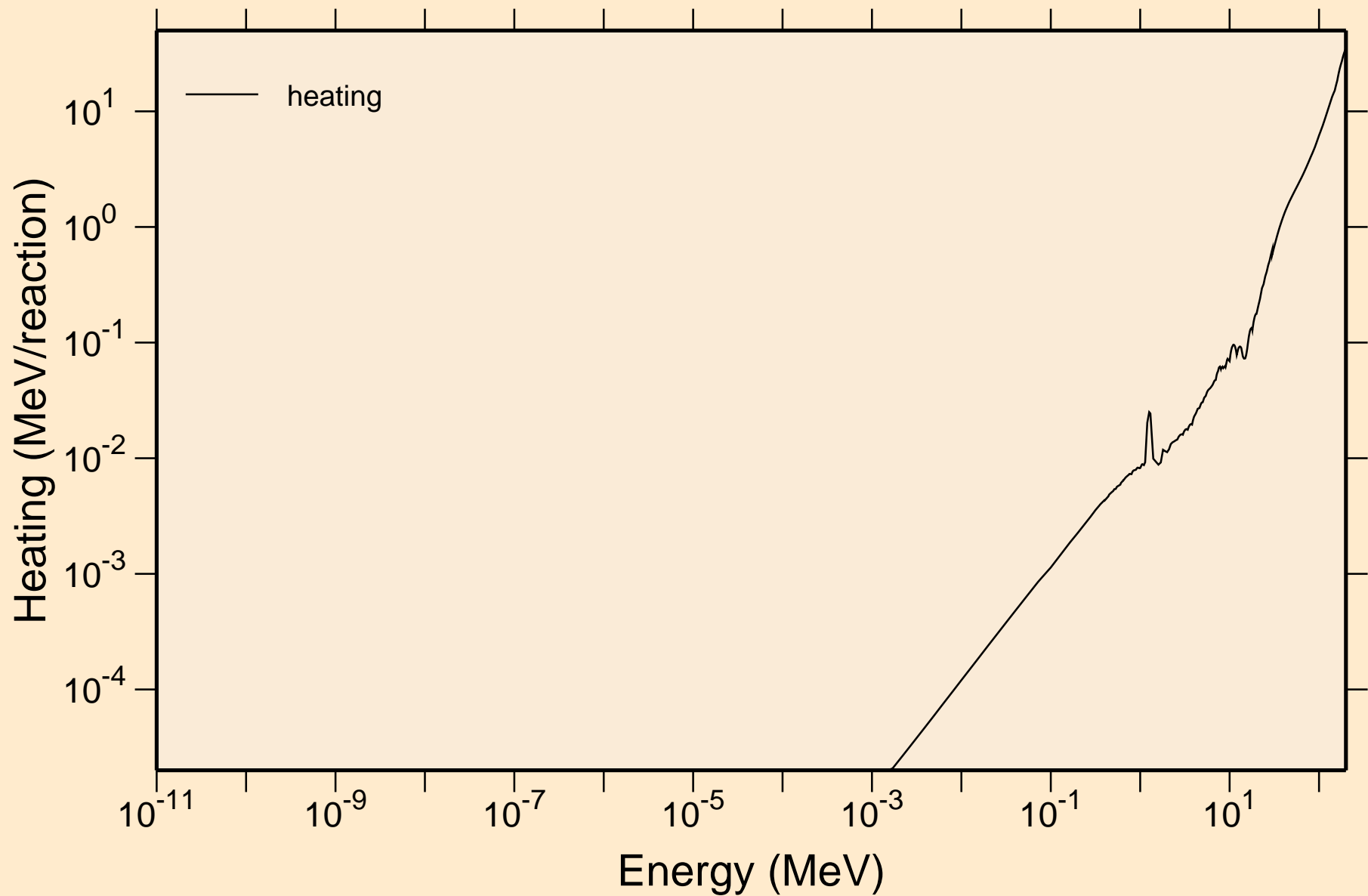
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

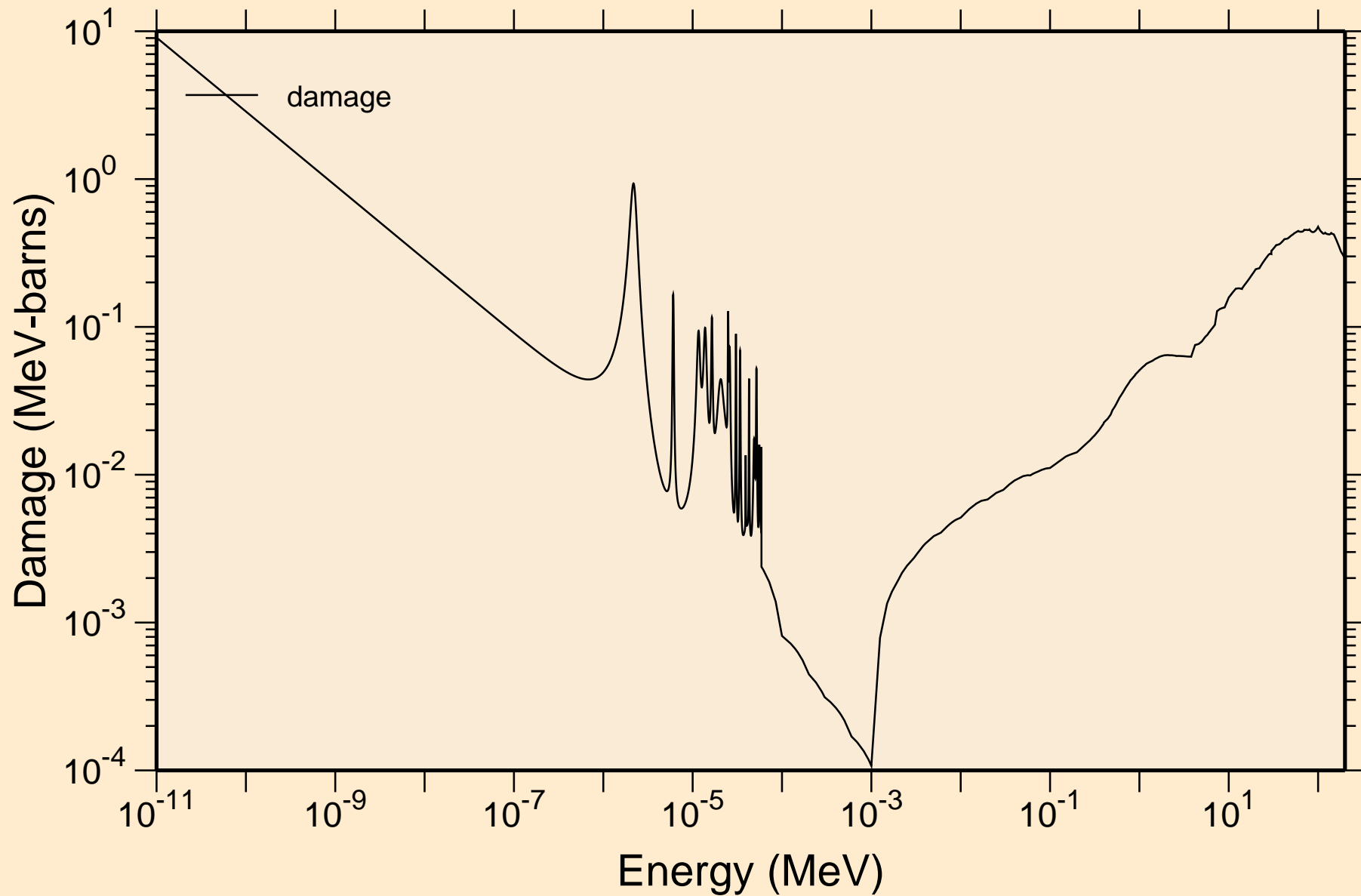


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating

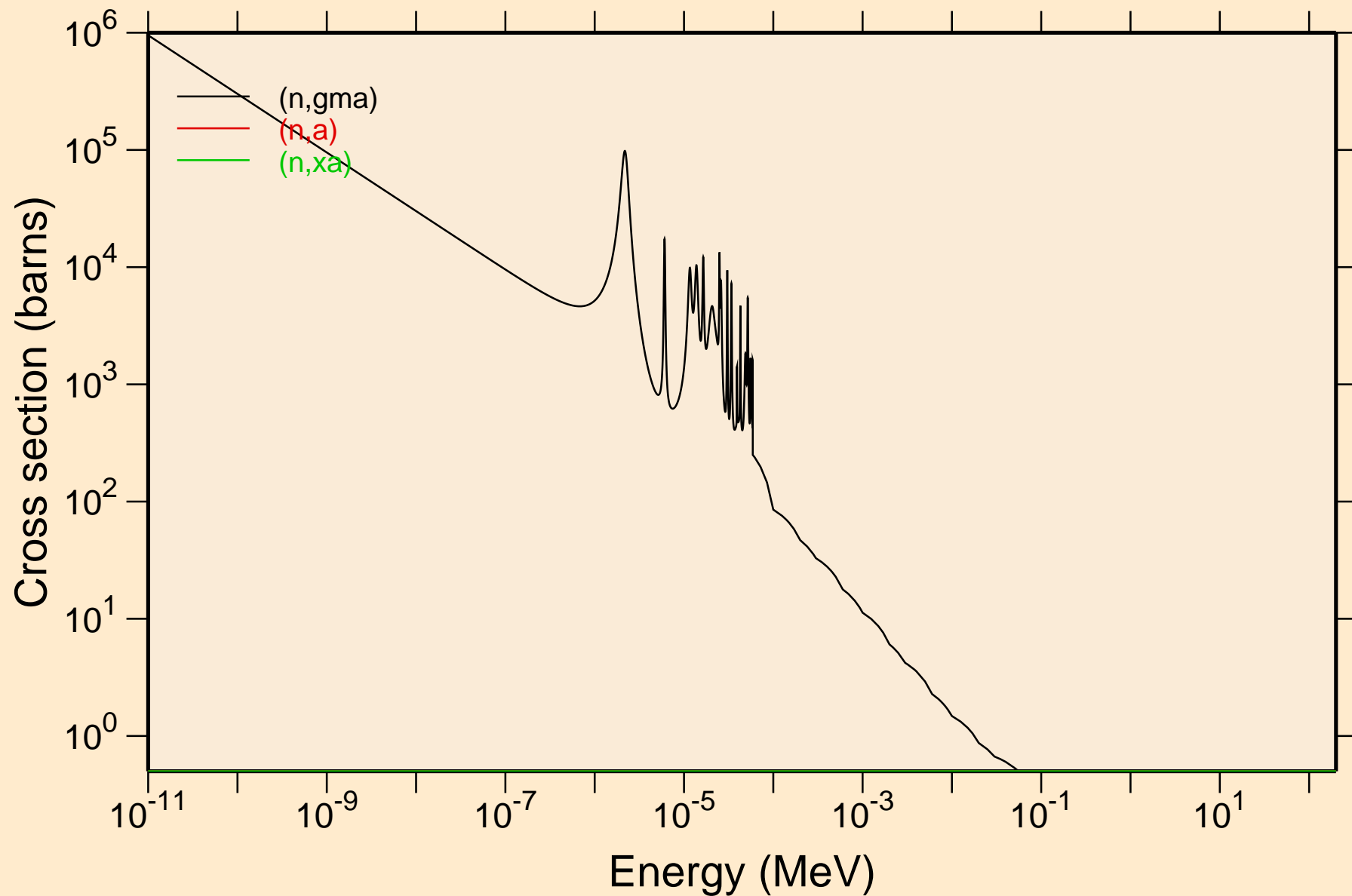




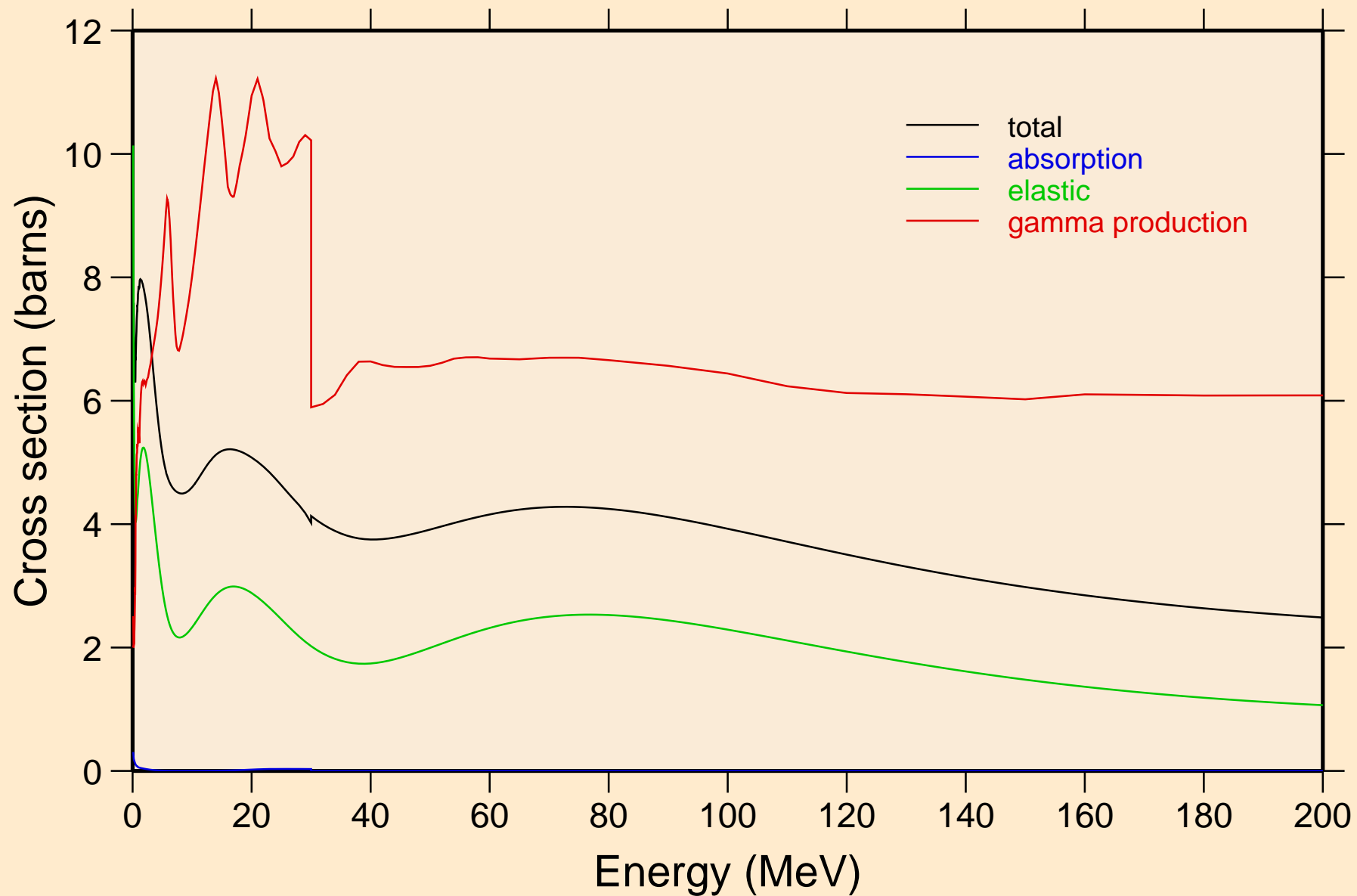
# GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



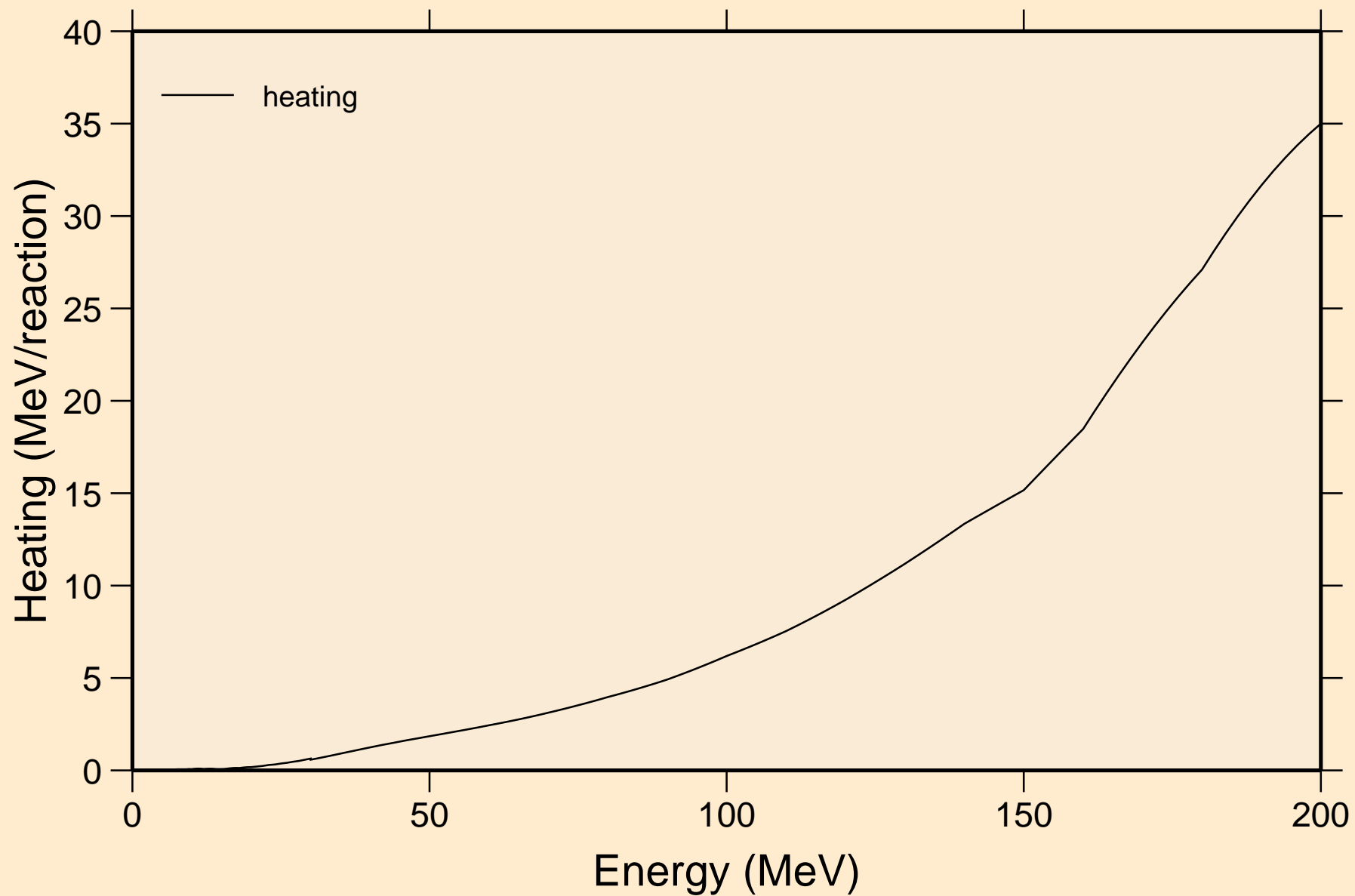
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



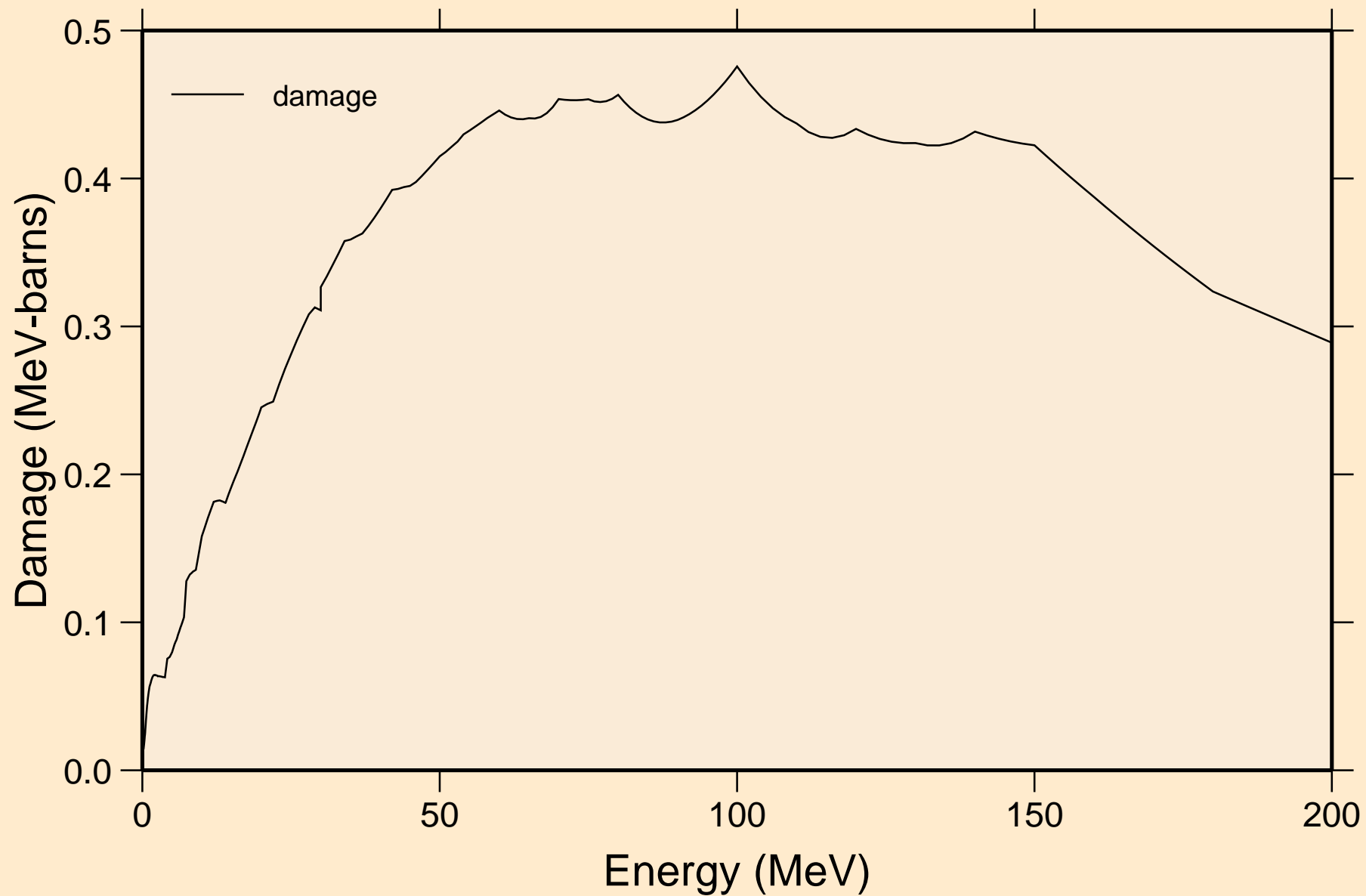
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Principal cross sections



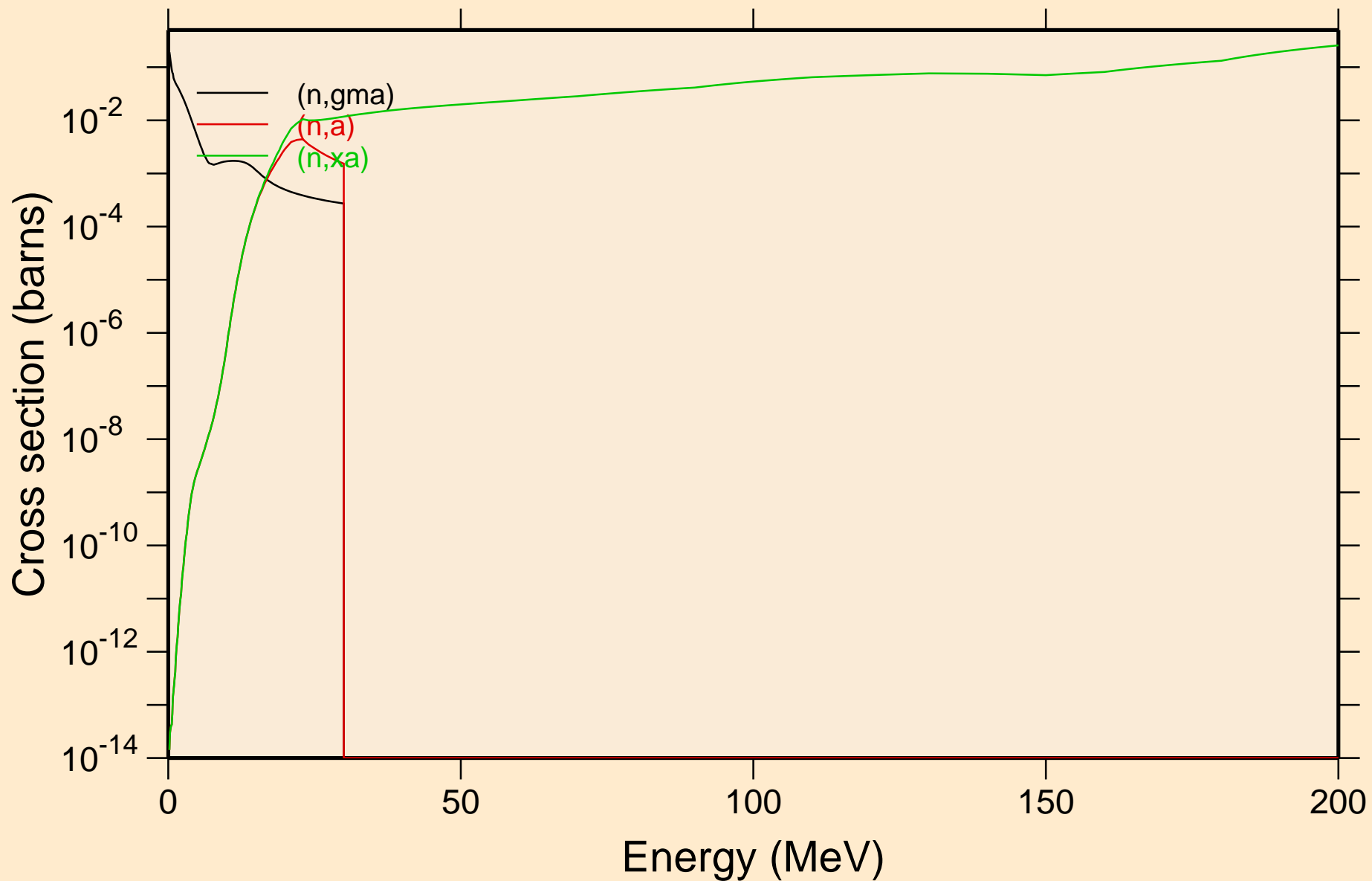
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



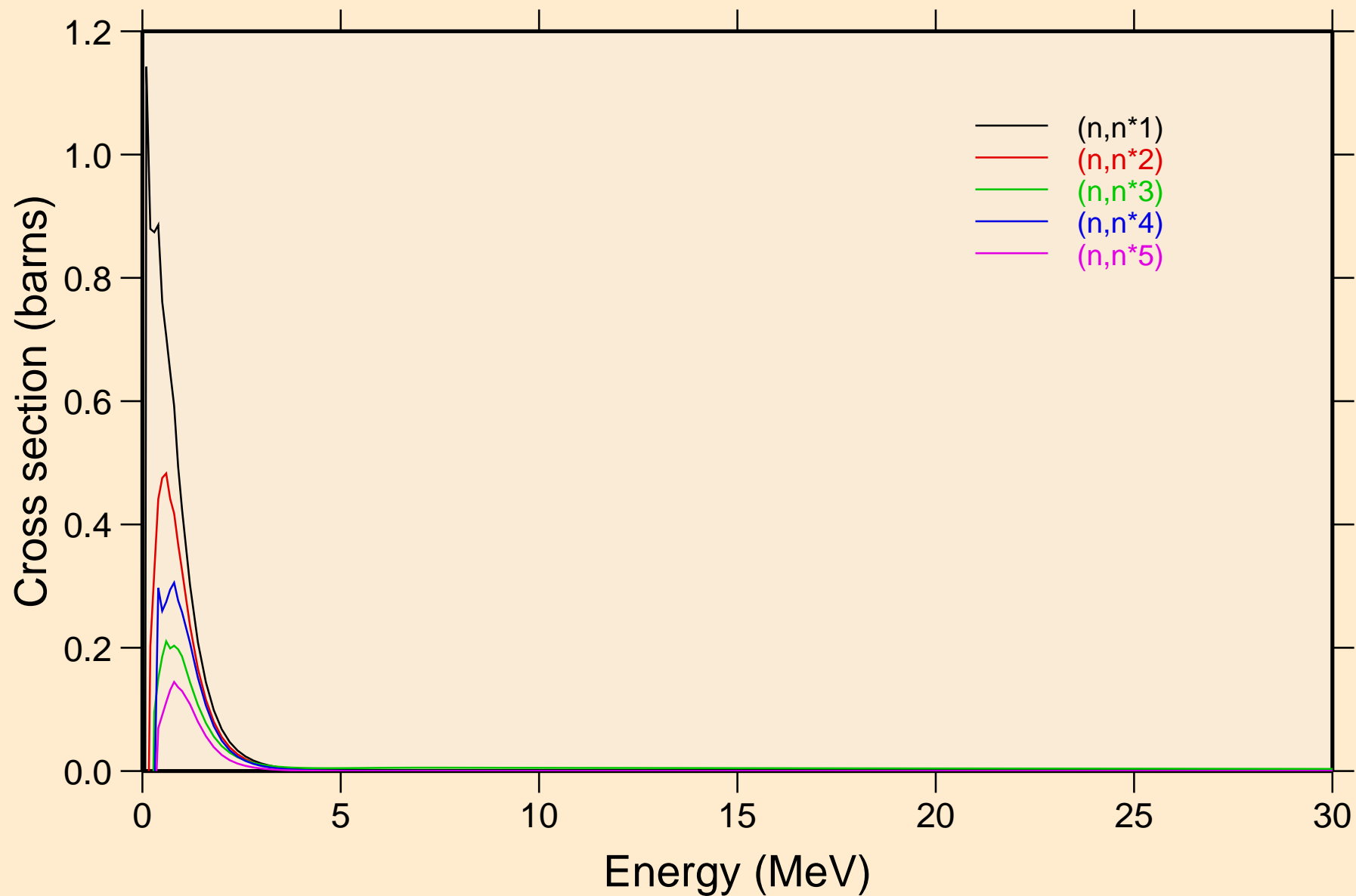
# GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K Damage



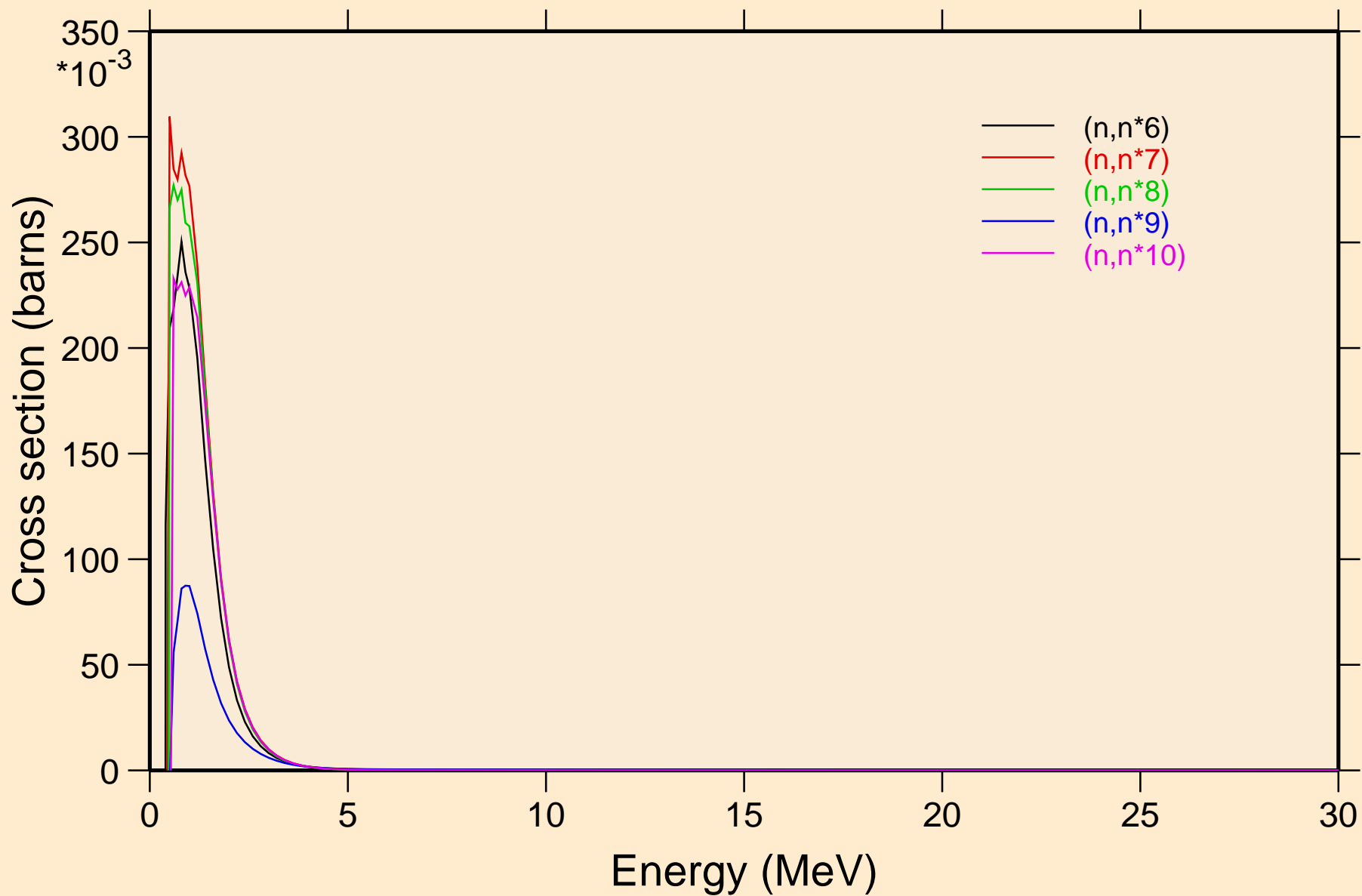
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

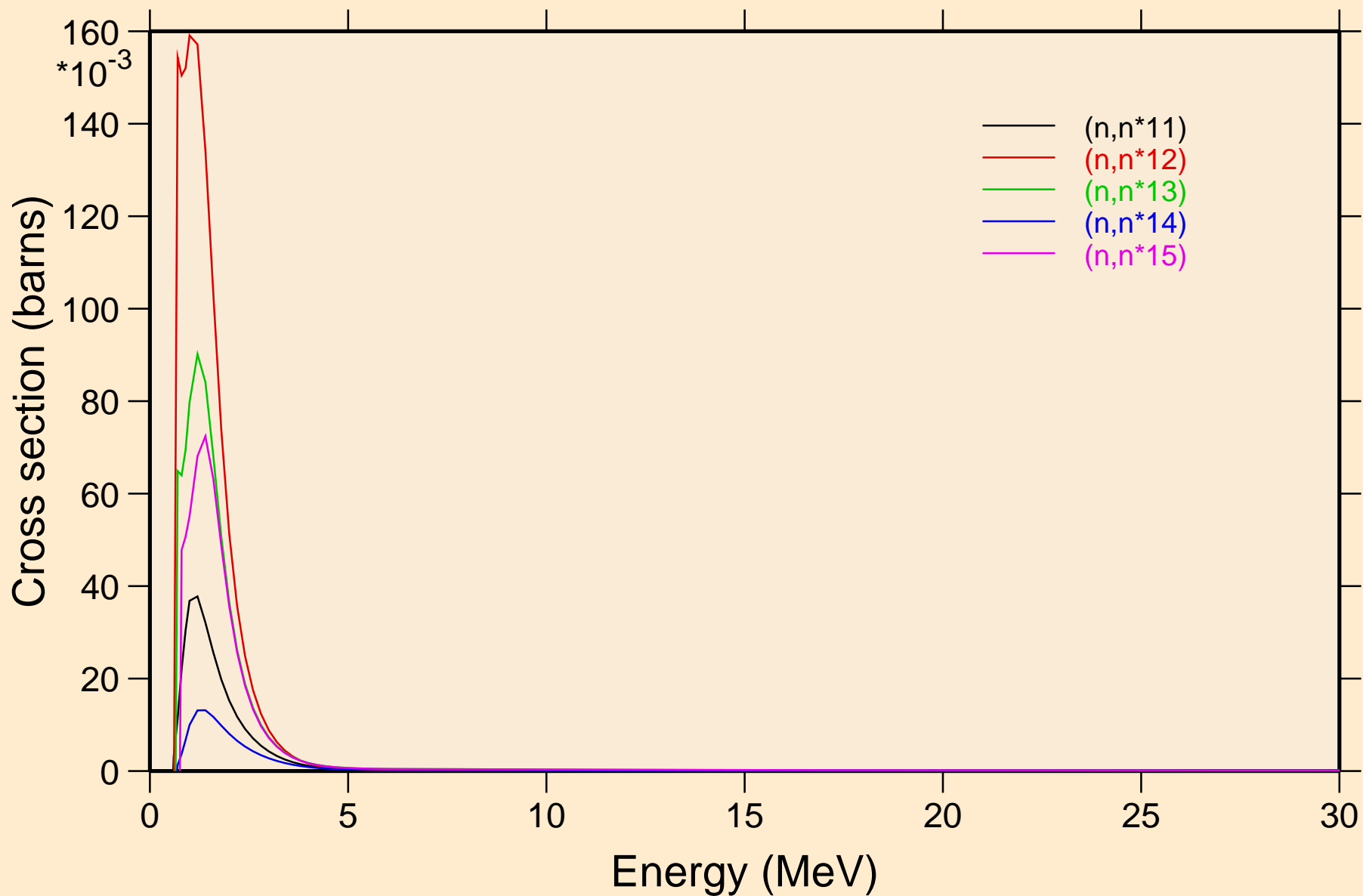


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

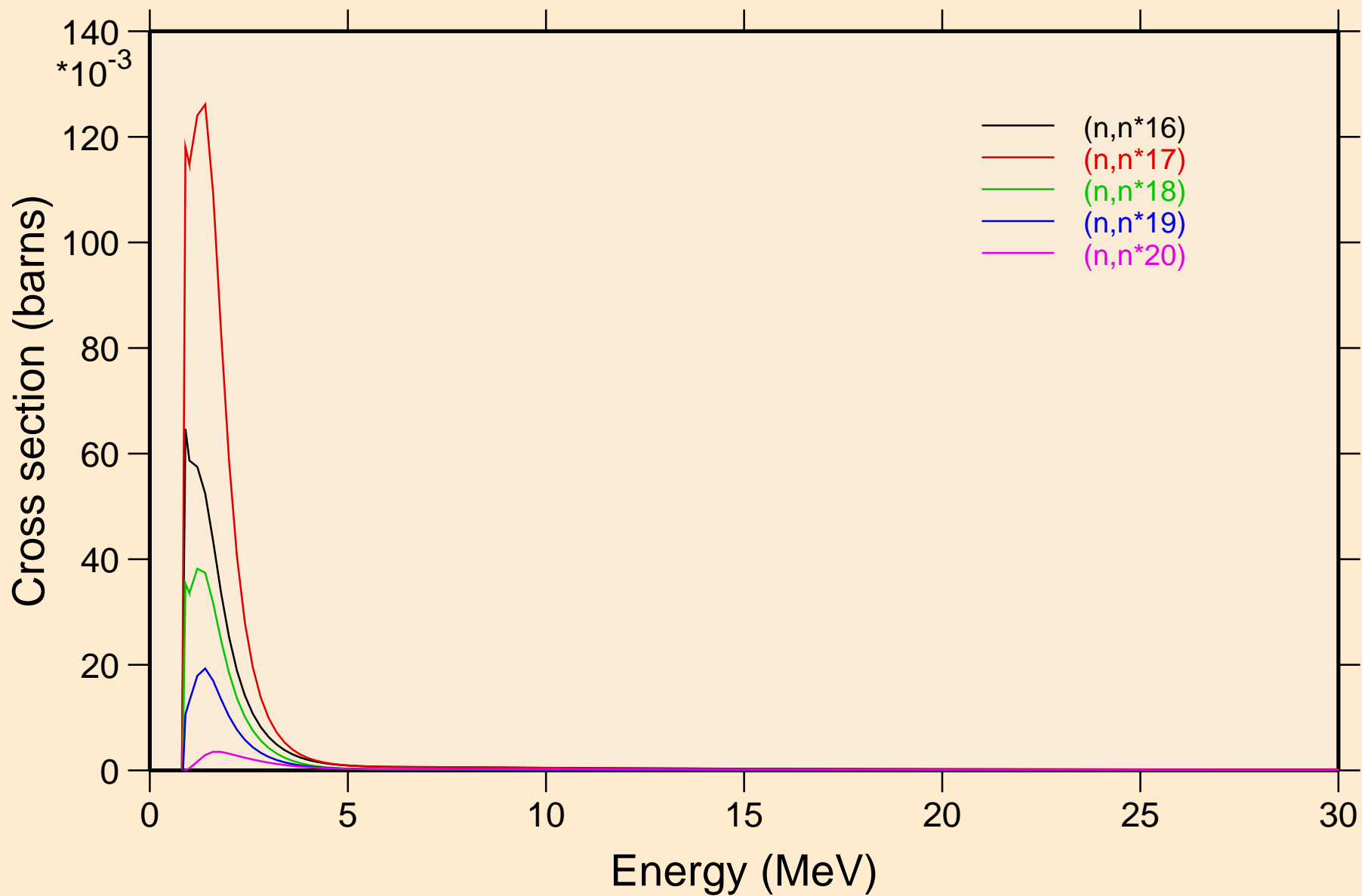




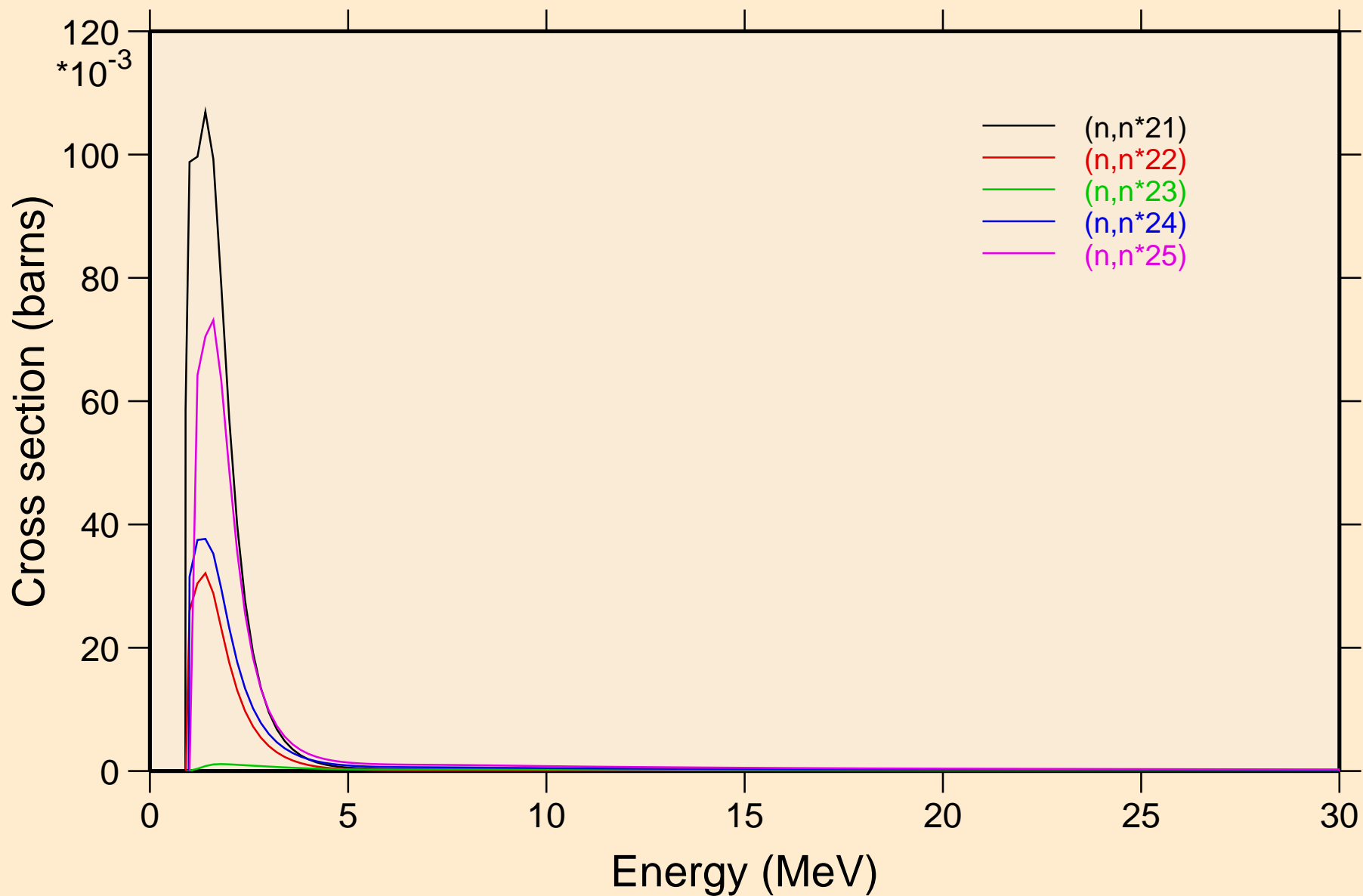
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



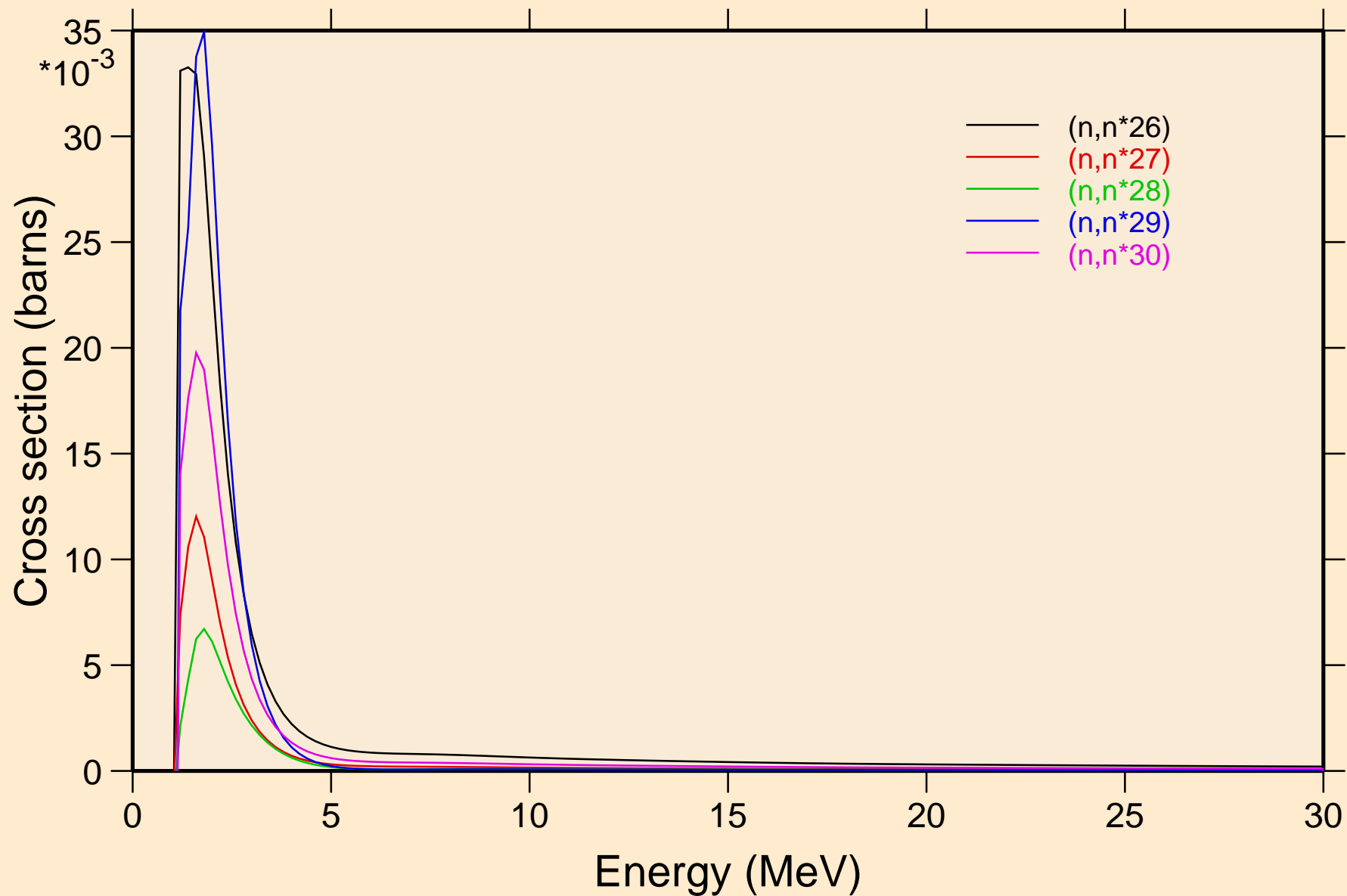
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Inelastic levels



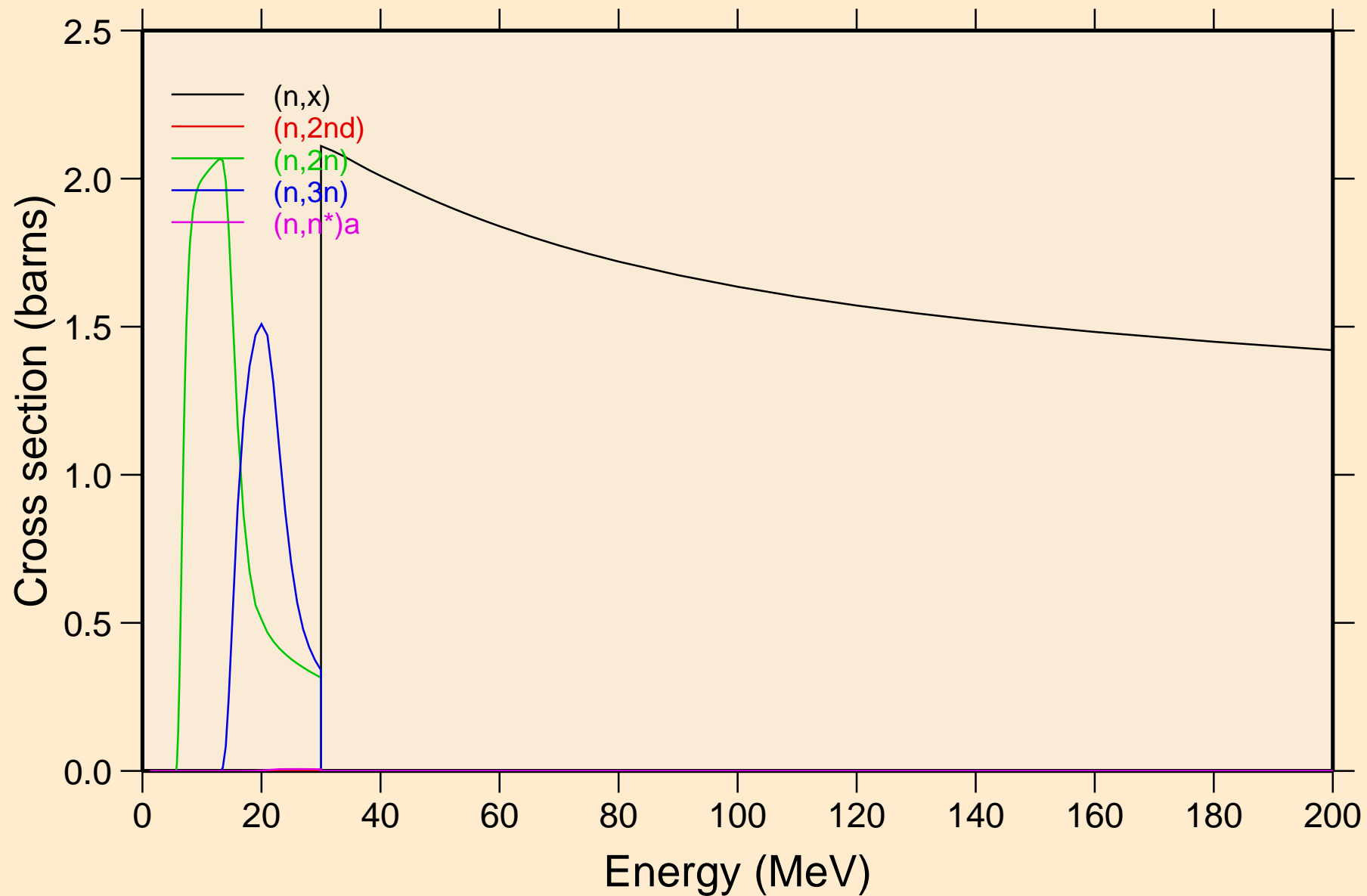
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



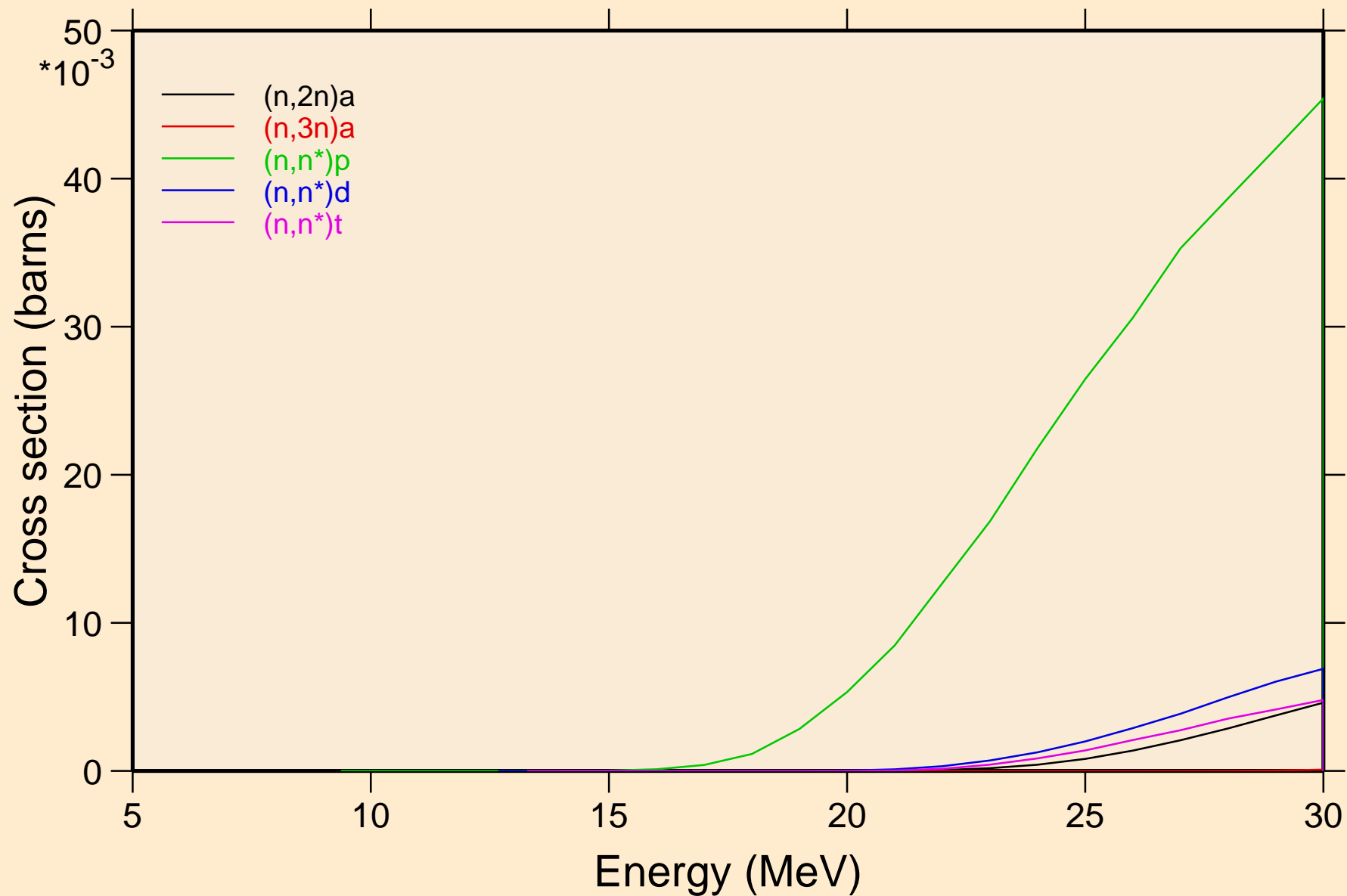
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Inelastic levels



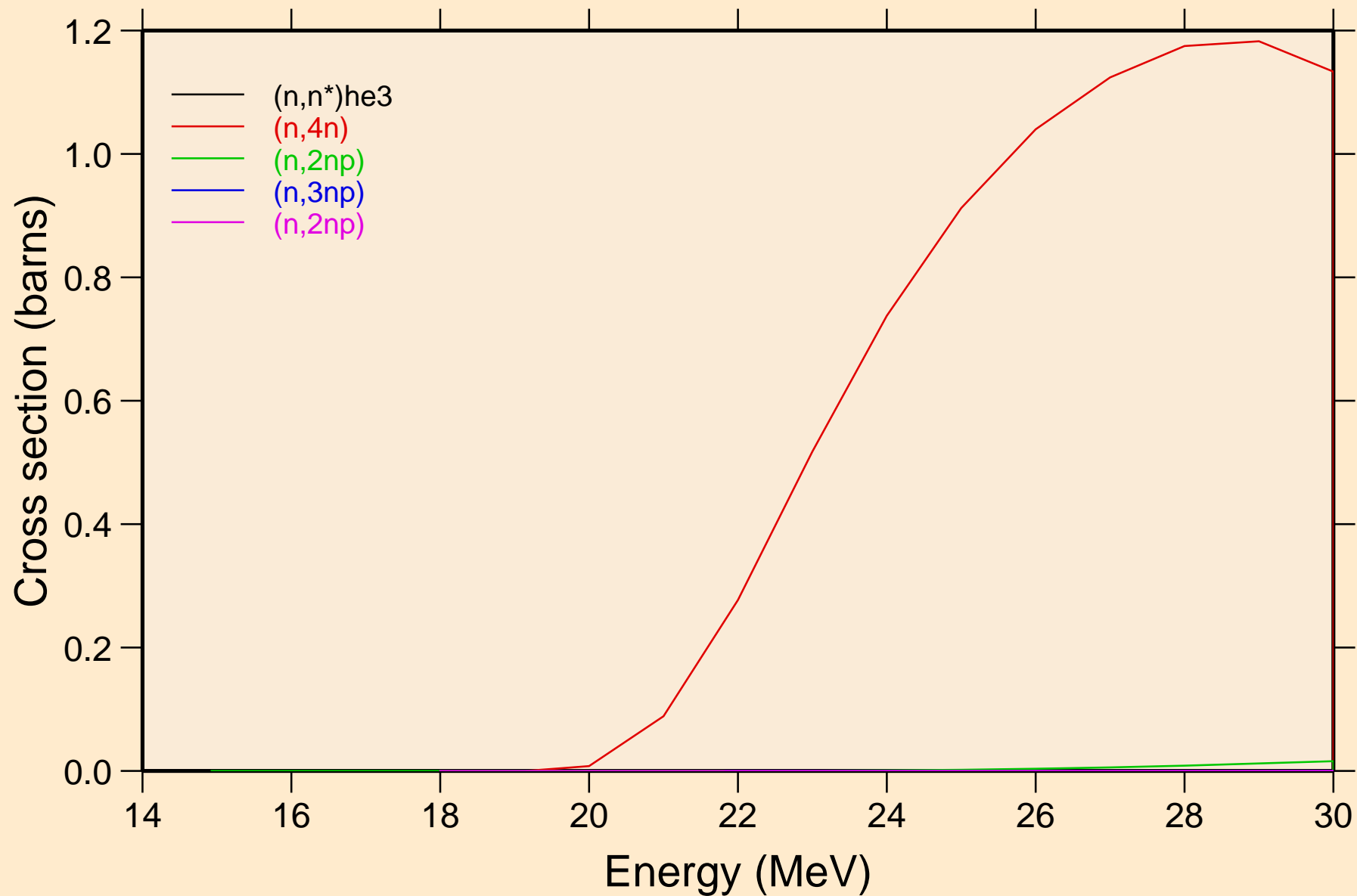
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Threshold reactions



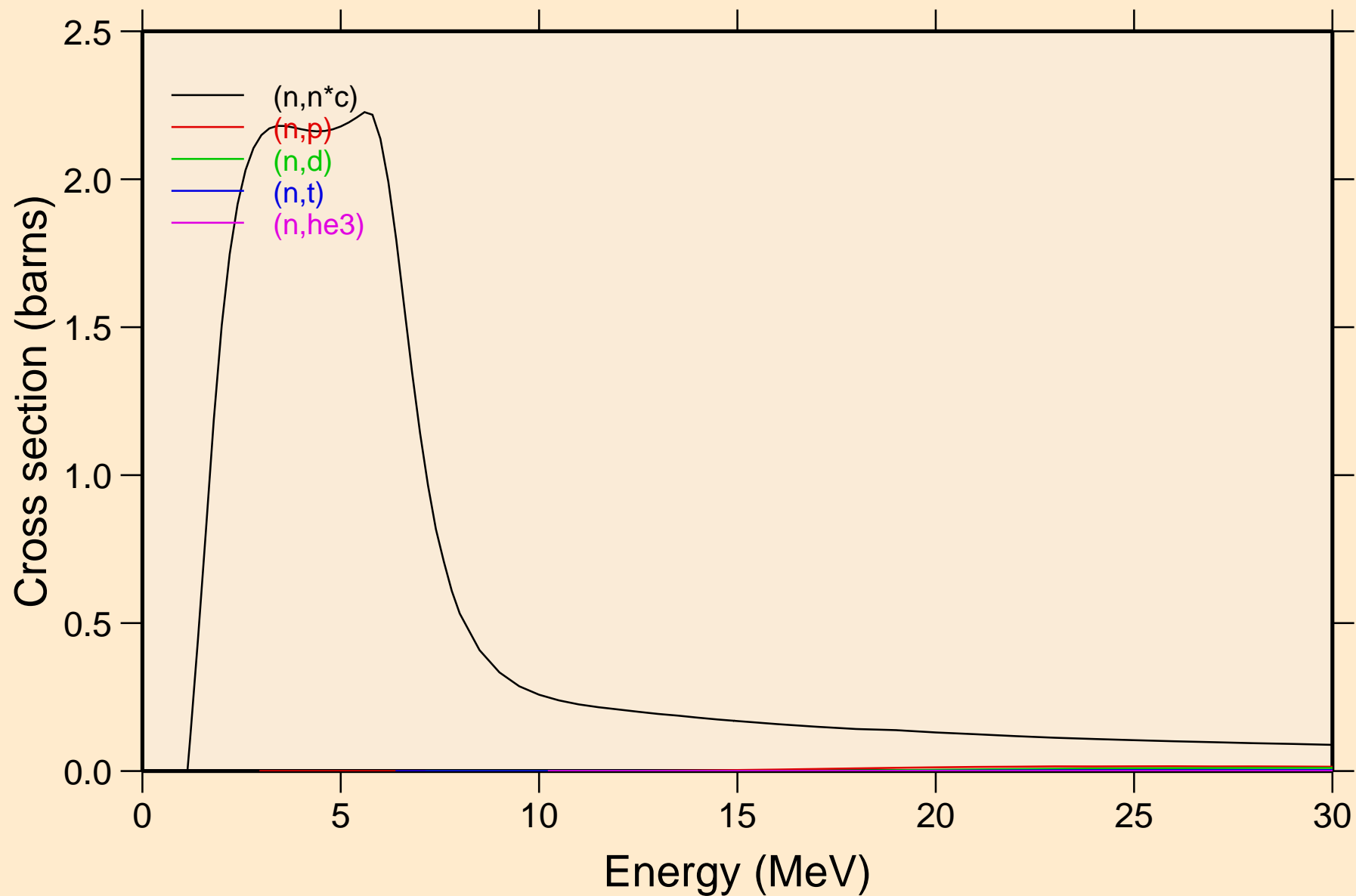
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Threshold reactions



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

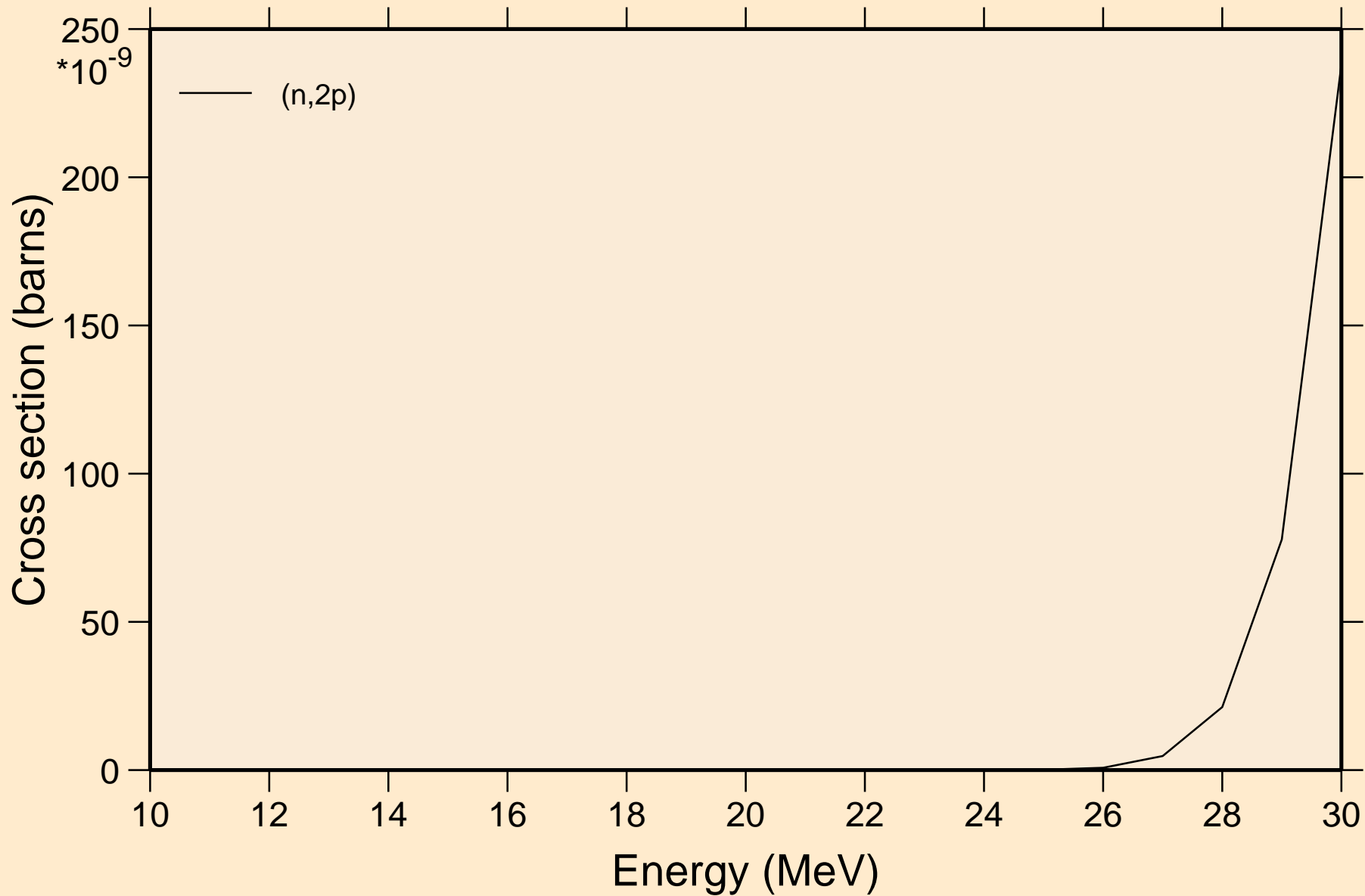


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

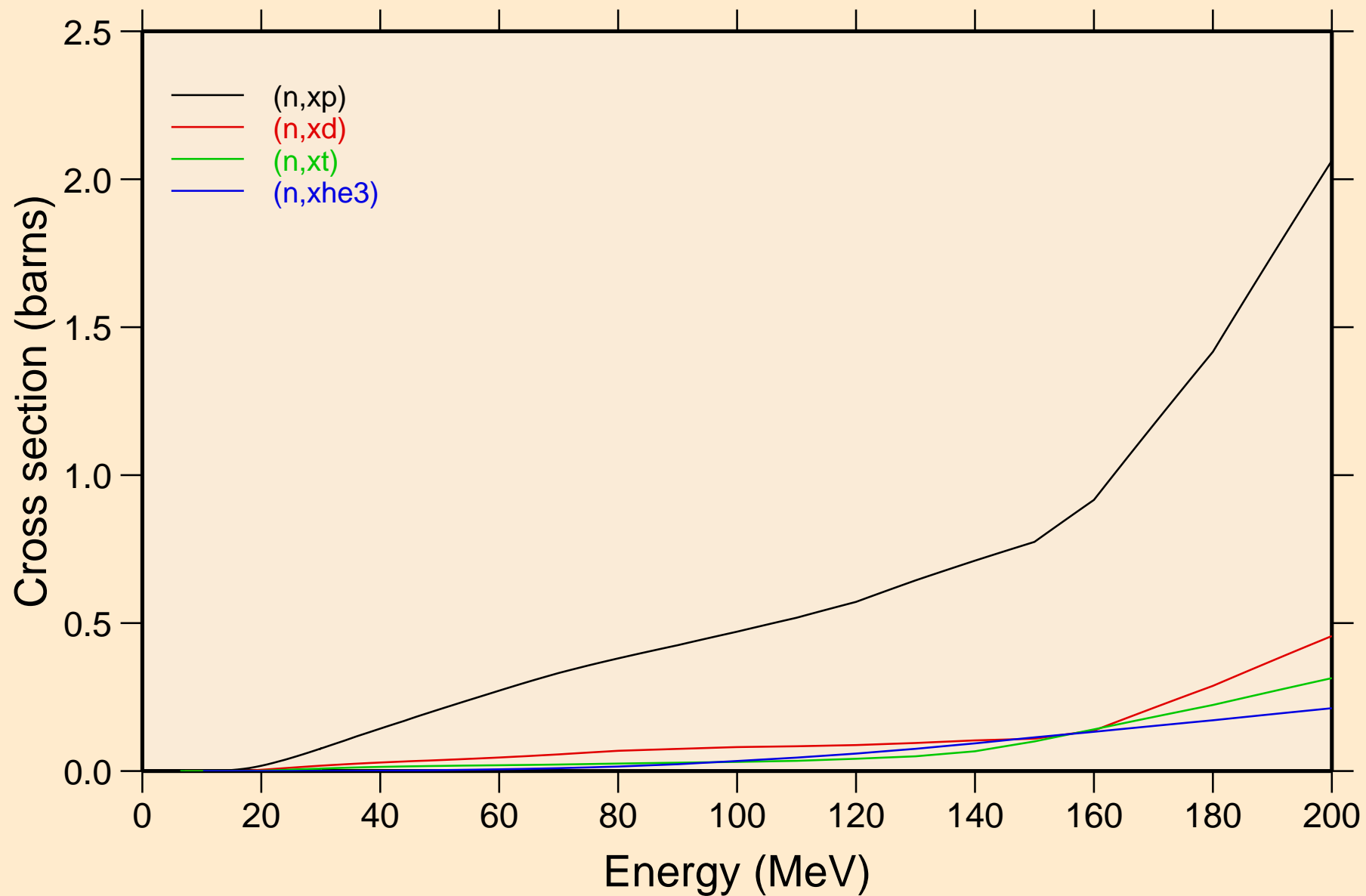




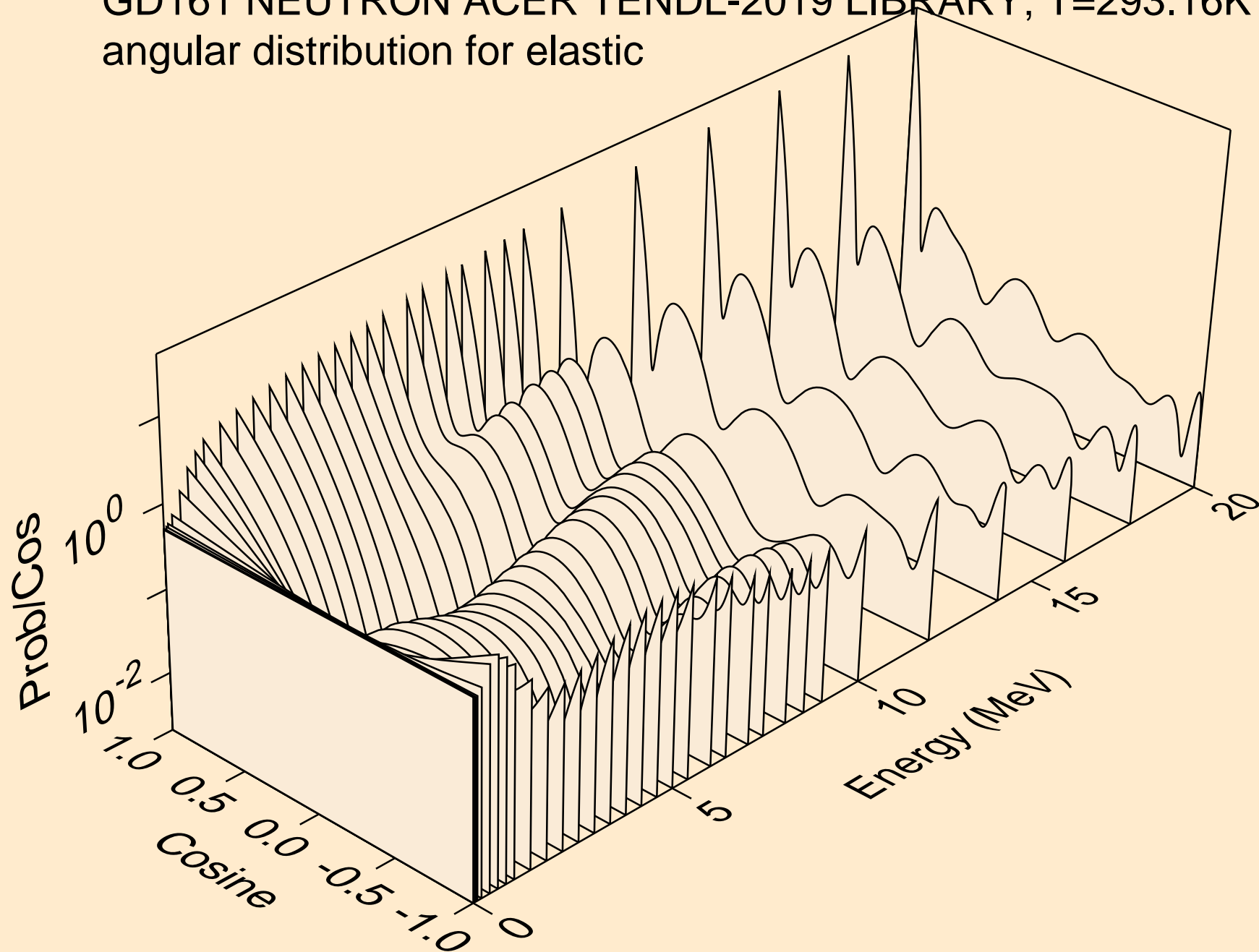
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Threshold reactions



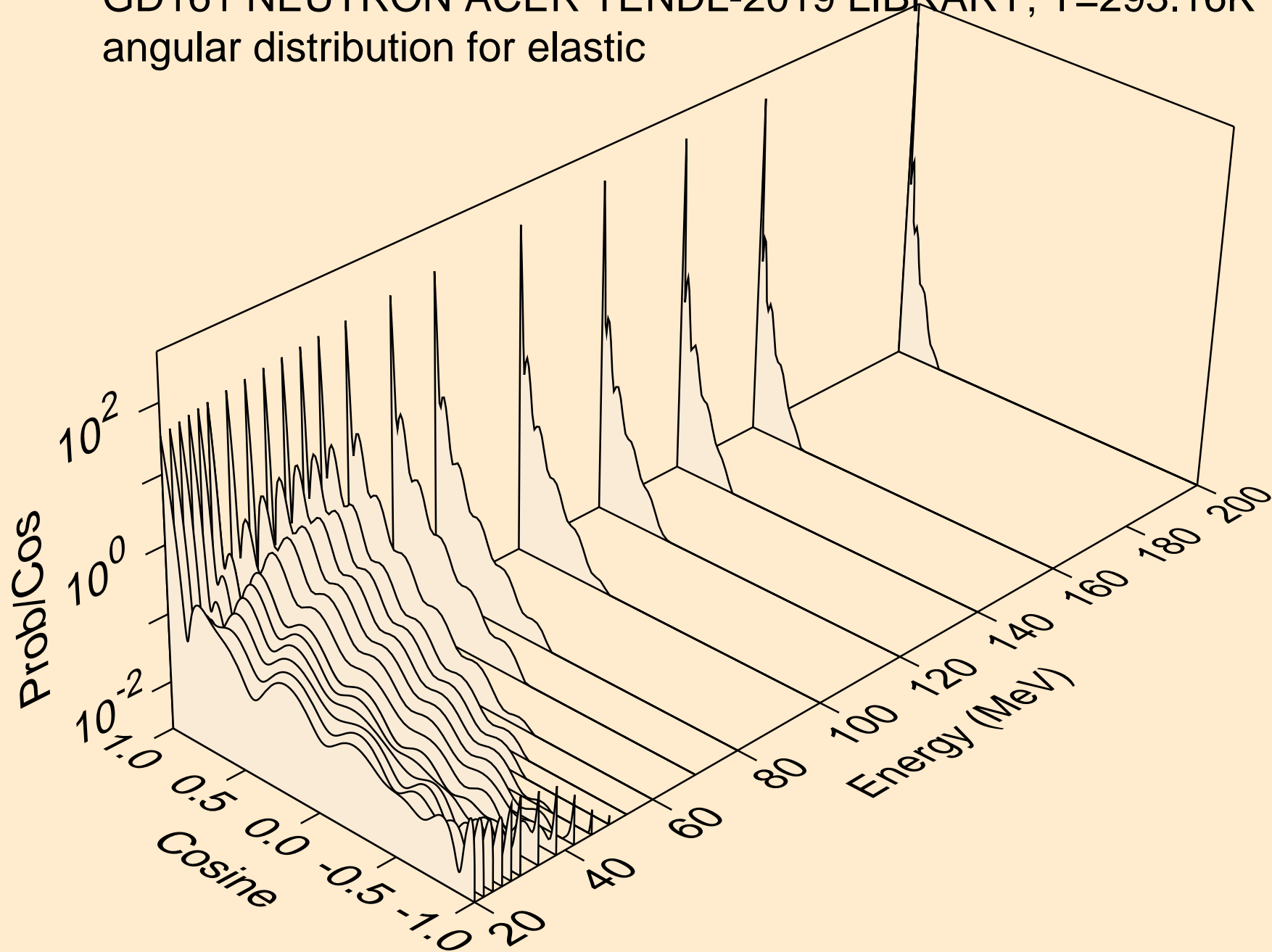
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



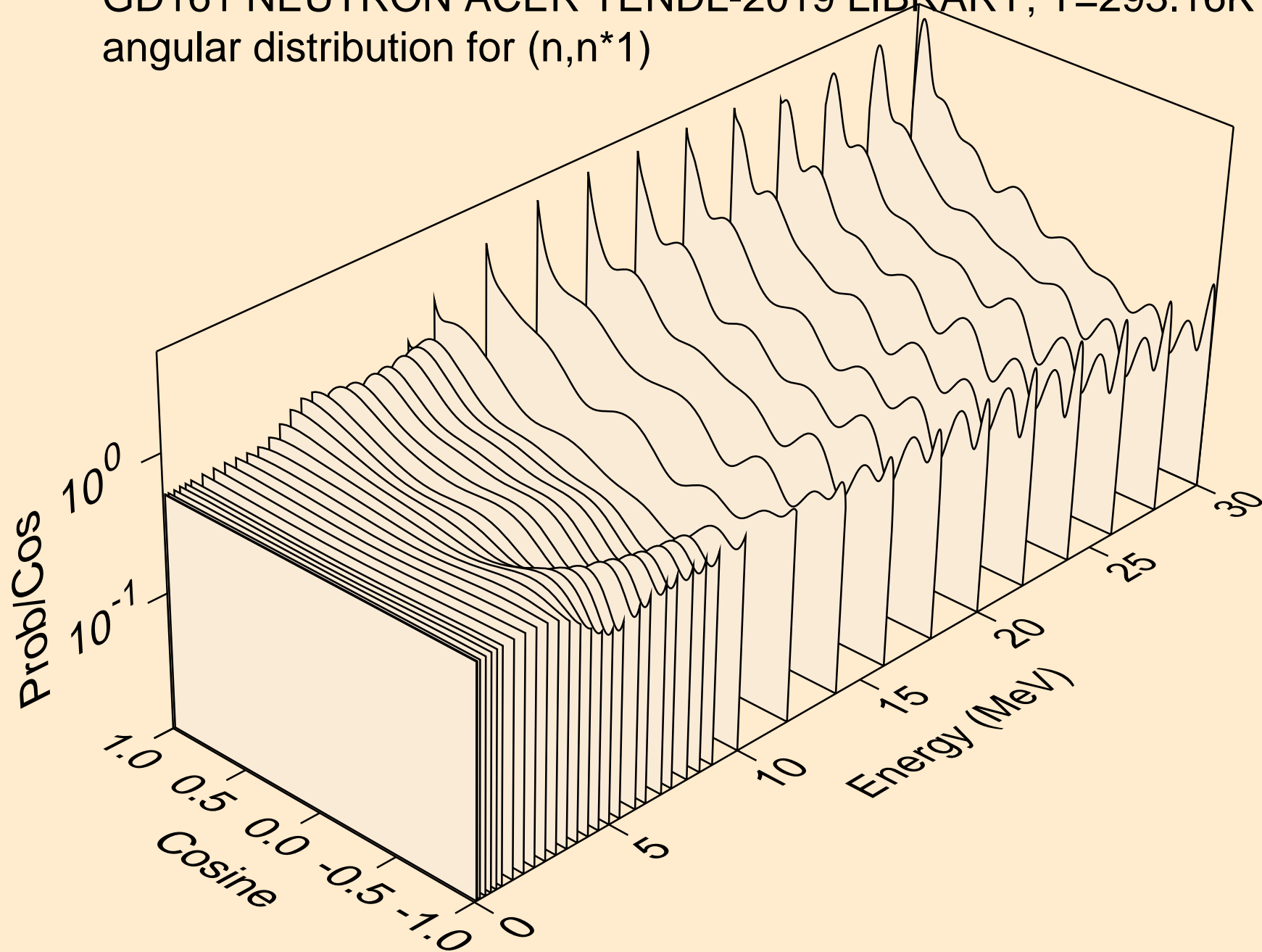
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angular distribution for elastic



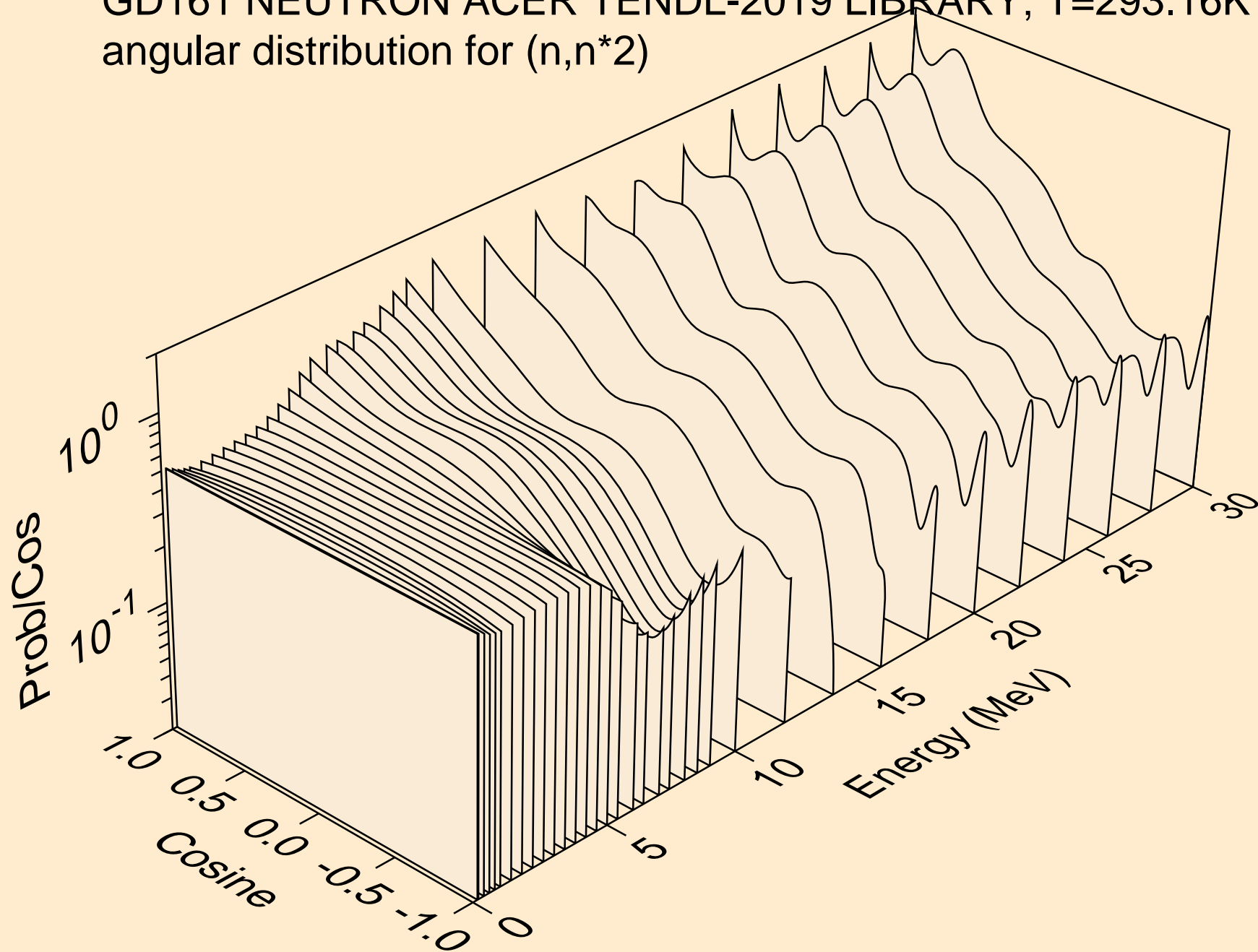
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angular distribution for elastic



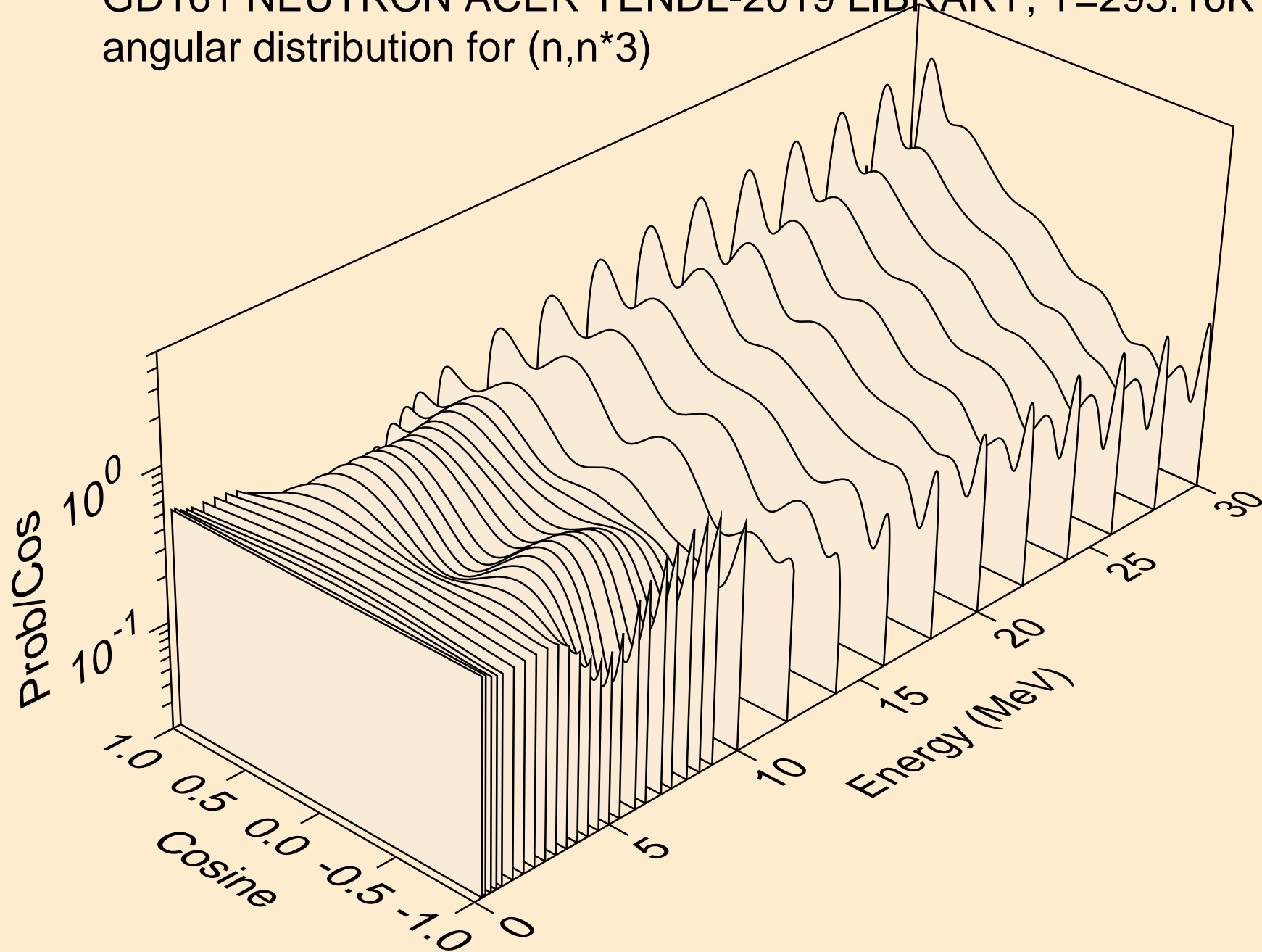
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angular distribution for (n,n\*1)



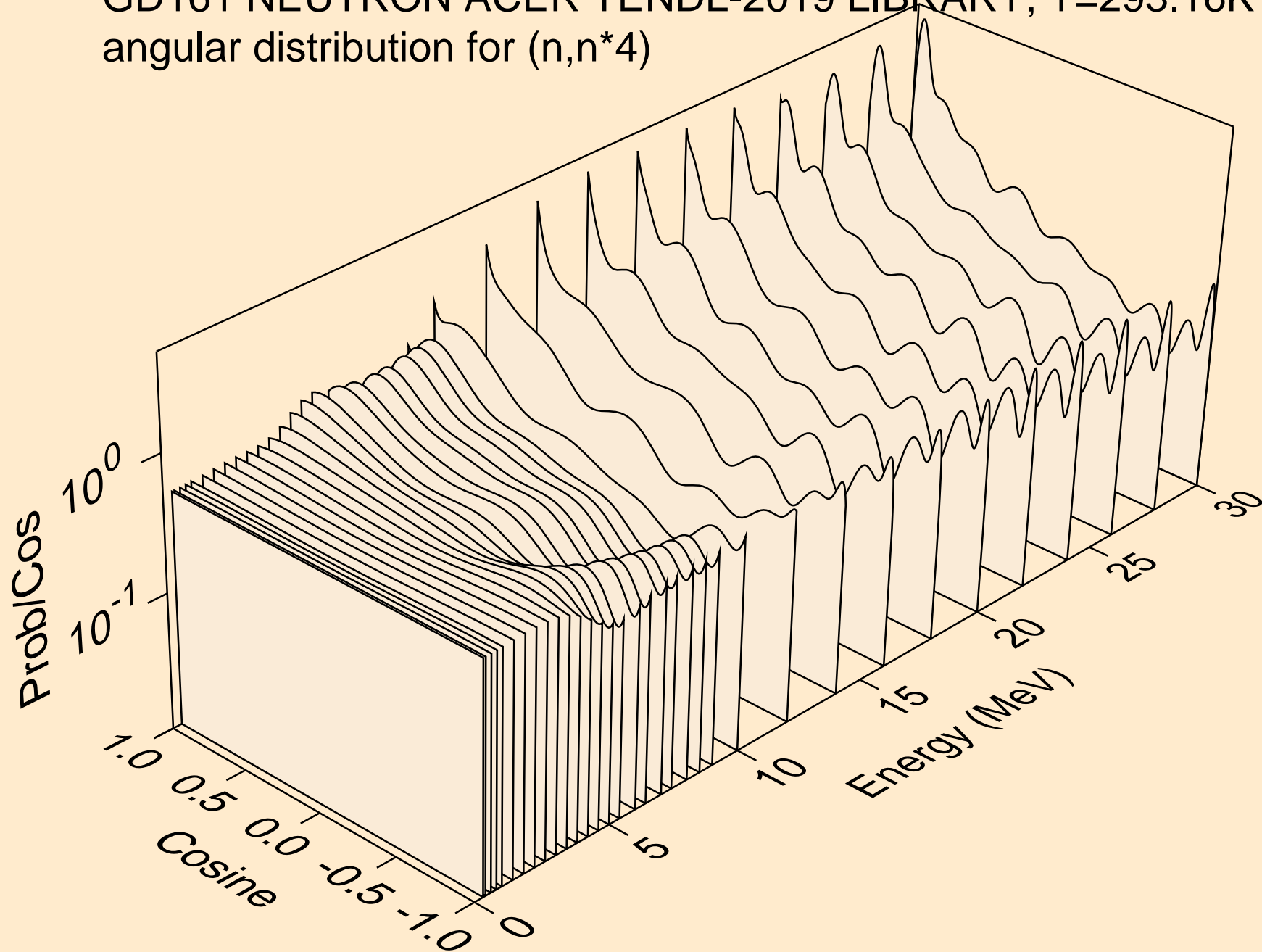
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angular distribution for (n,n\*2)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*3)

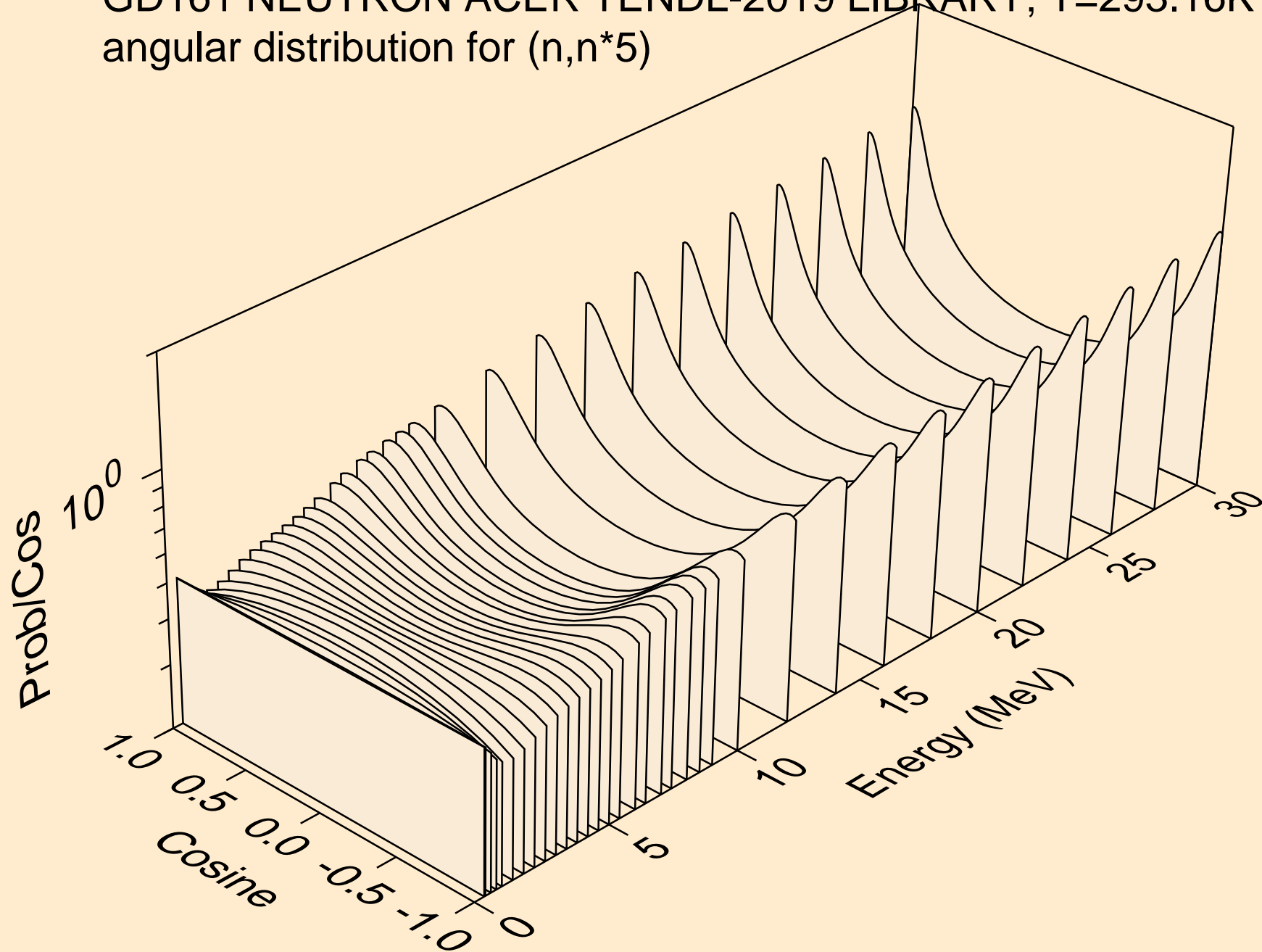


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angular distribution for (n,n\*4)

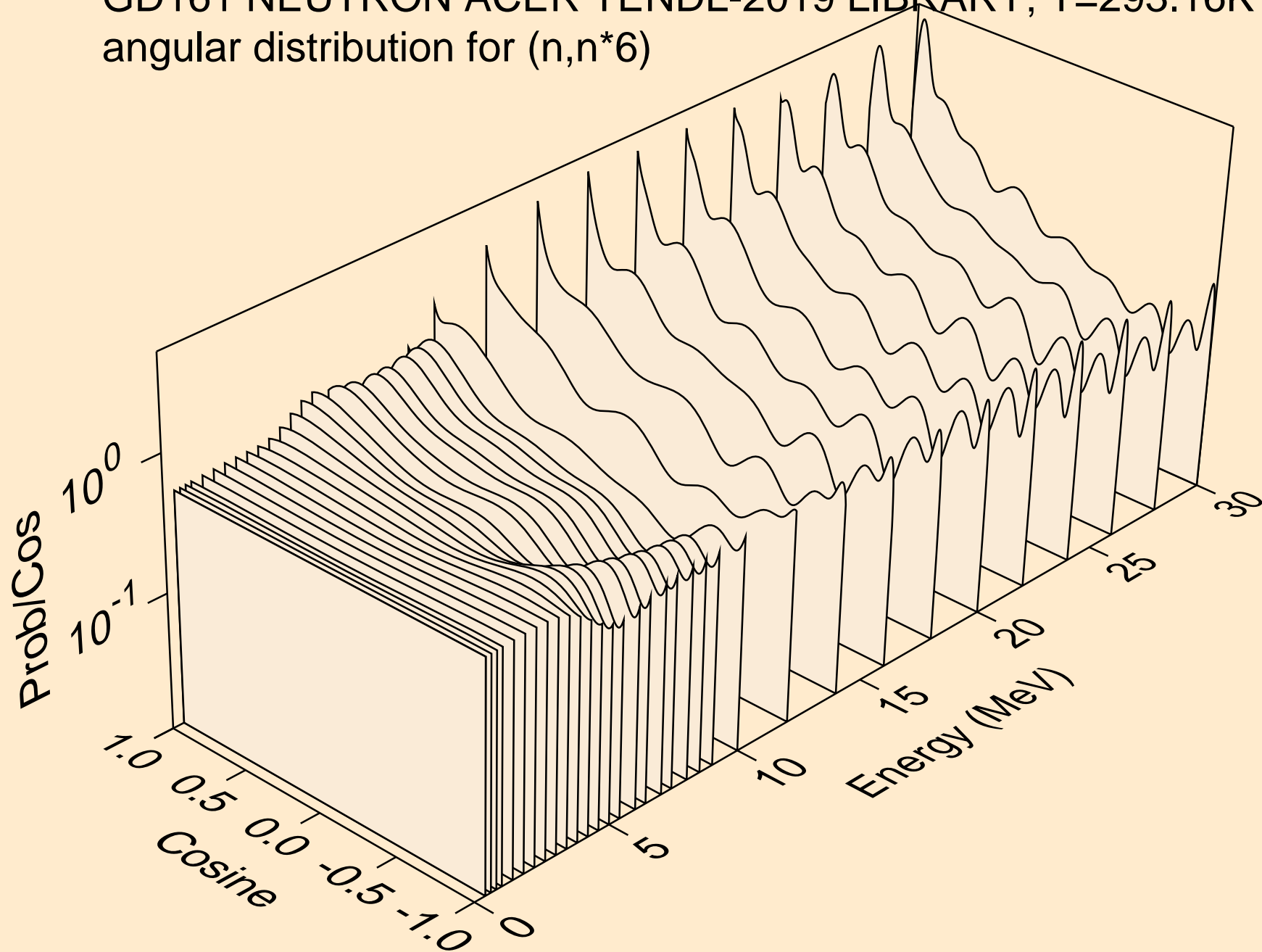




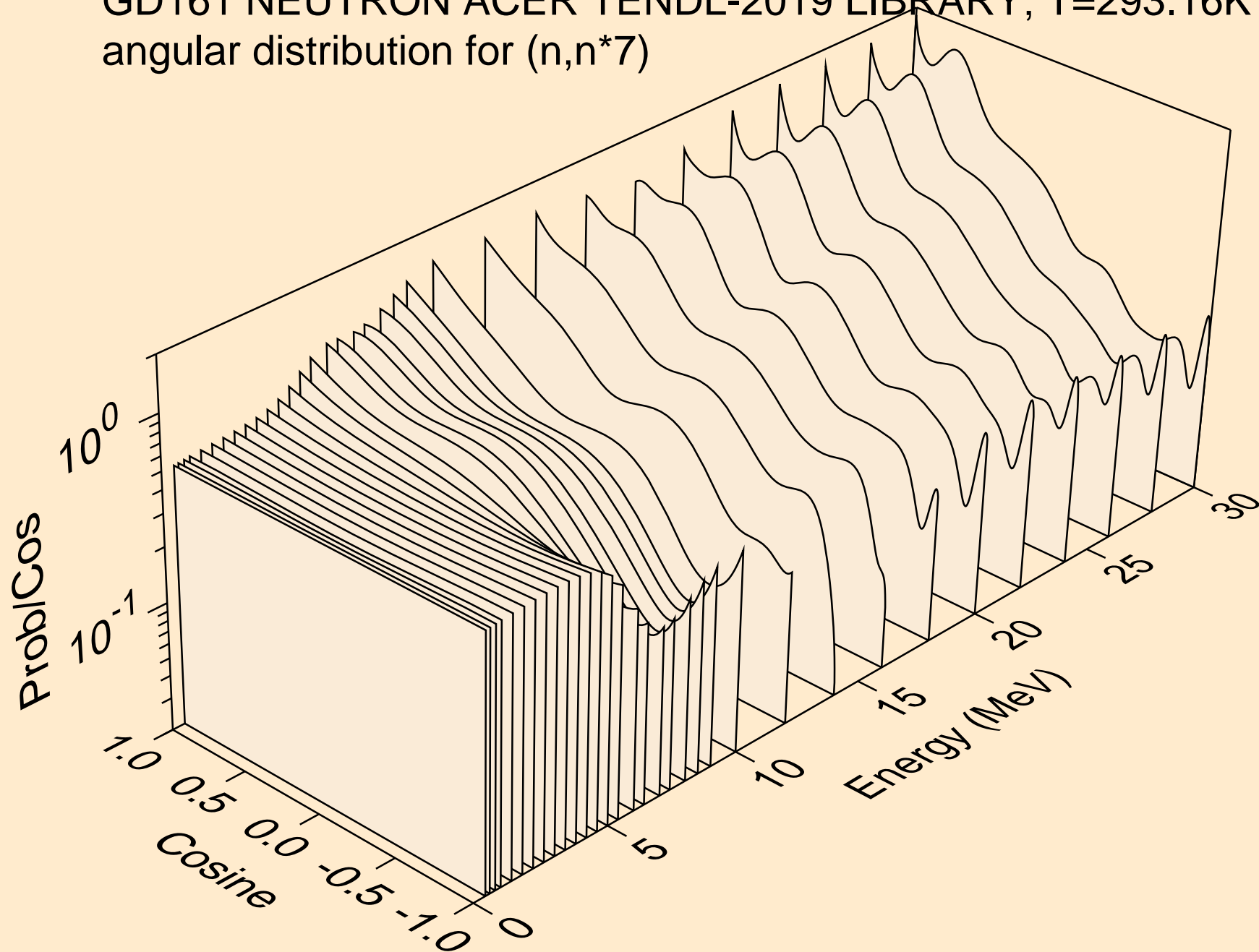
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angular distribution for (n,n\*5)



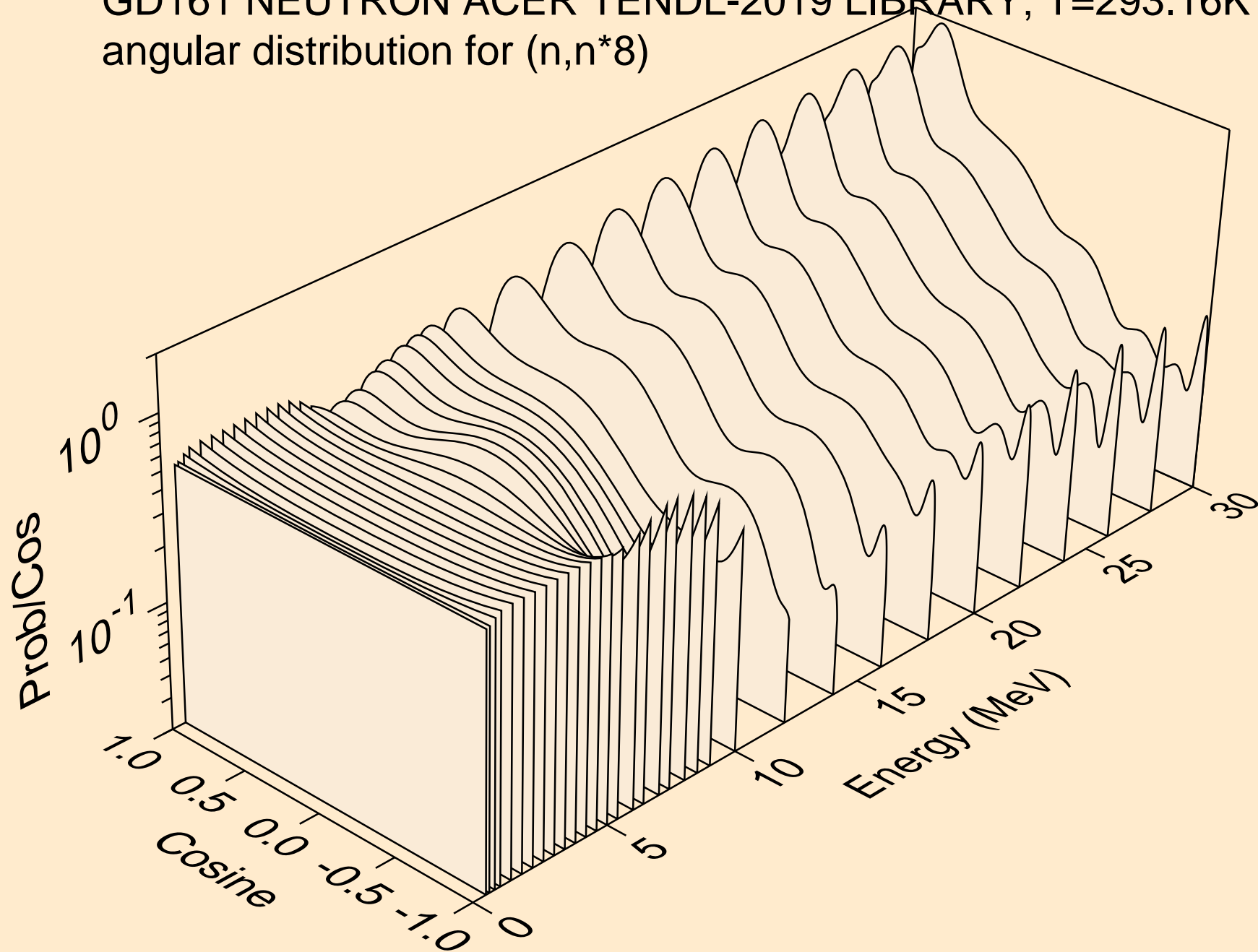
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angular distribution for (n,n\*6)



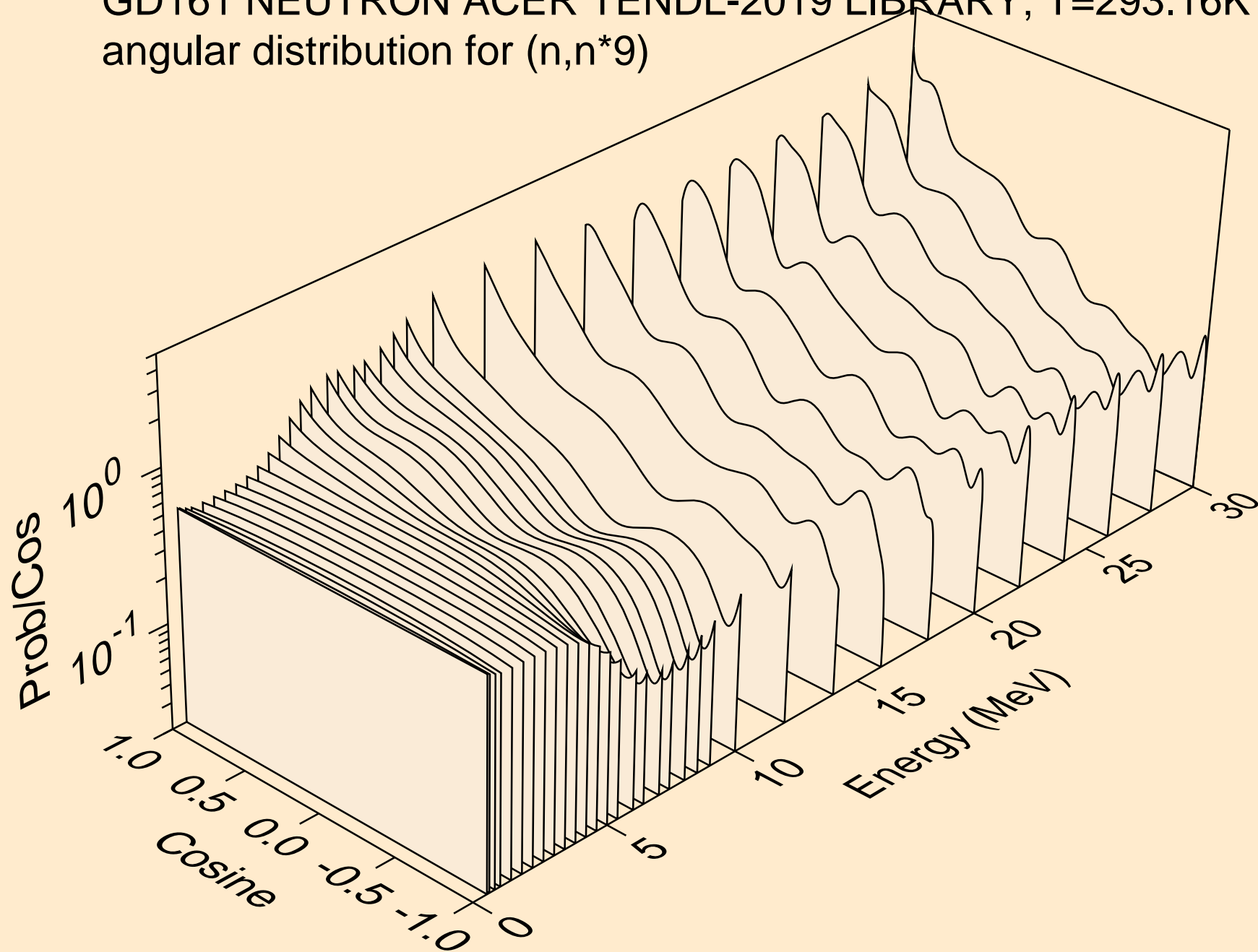
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angular distribution for (n,n\*7)



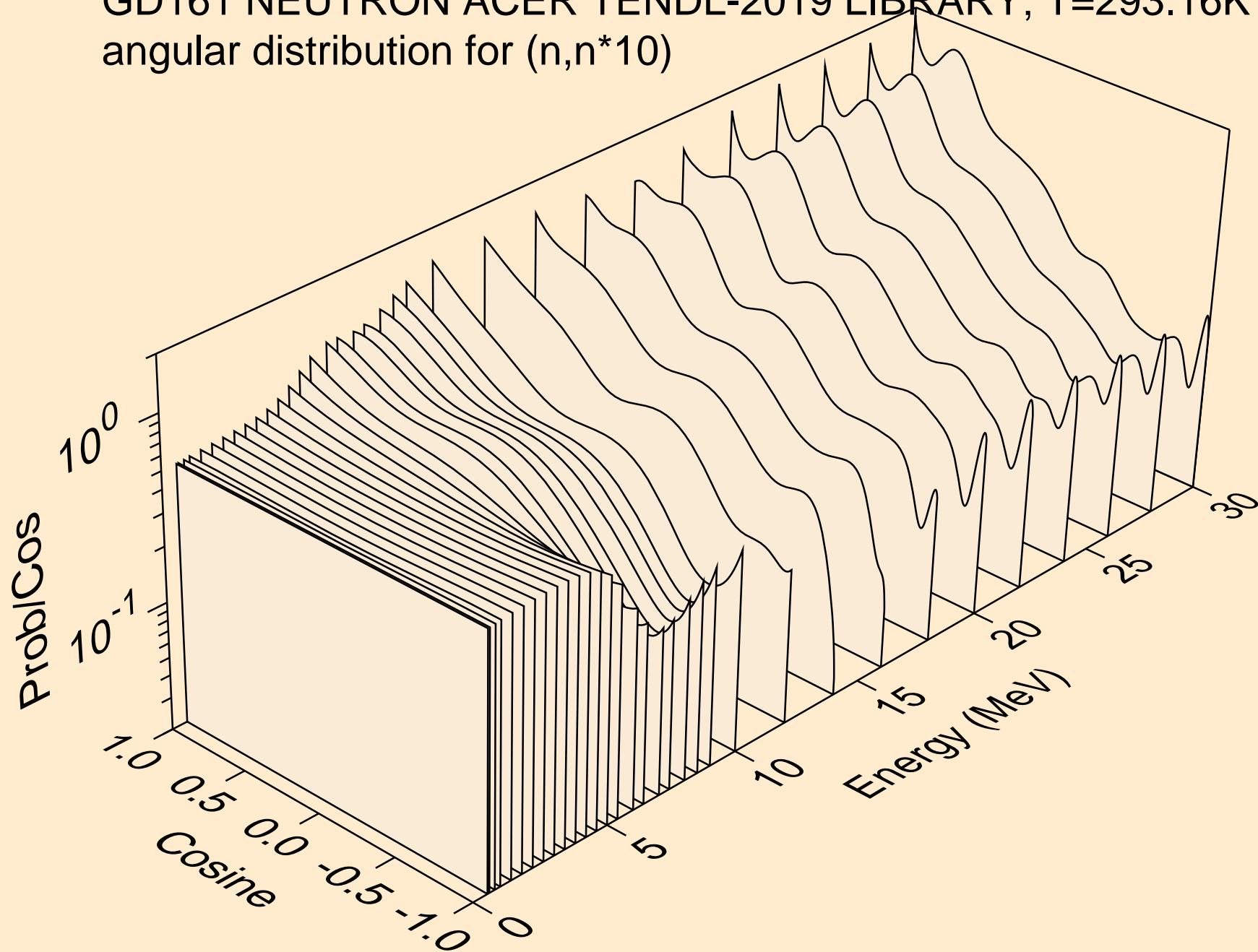
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angular distribution for (n,n\*8)



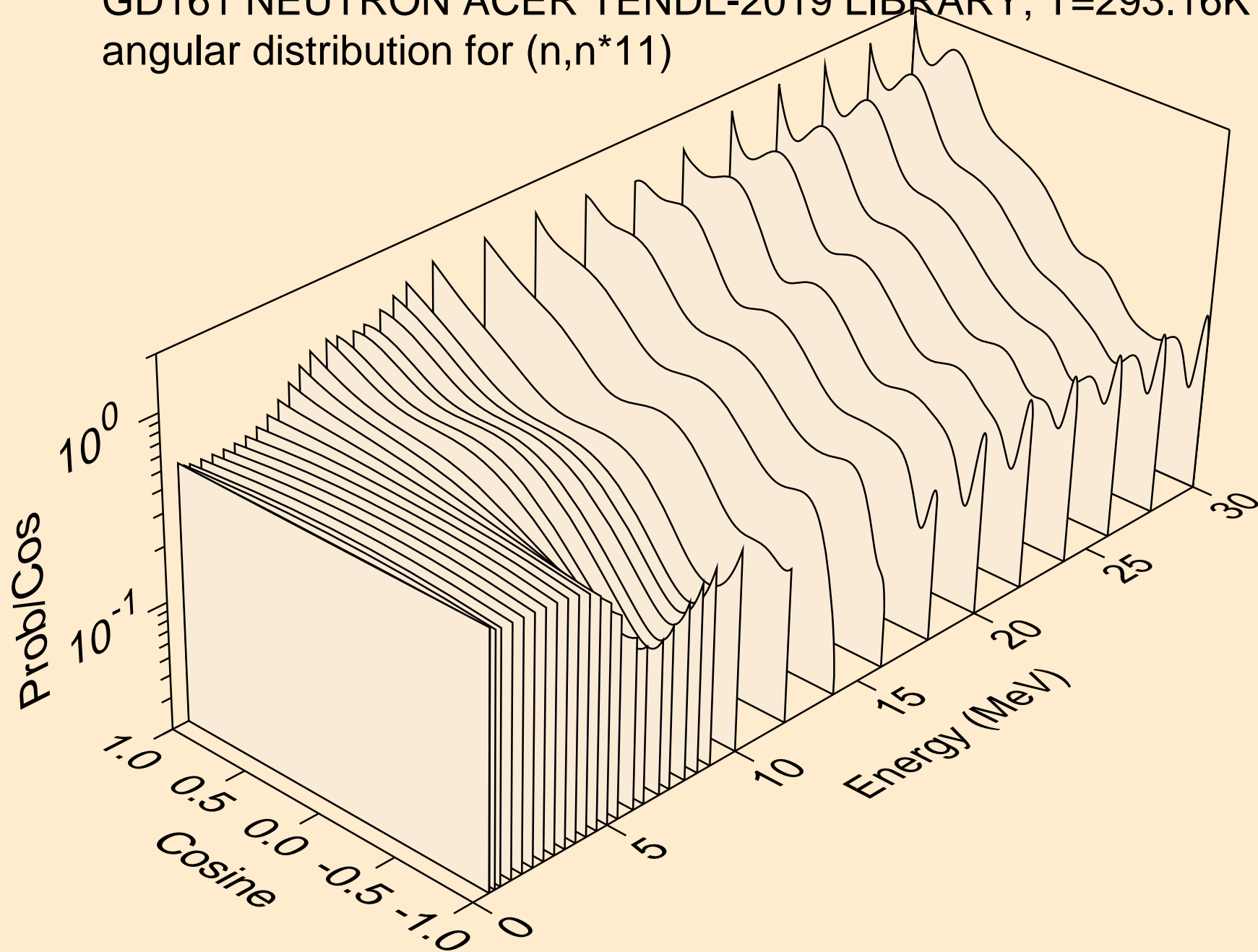
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angular distribution for (n,n\*9)



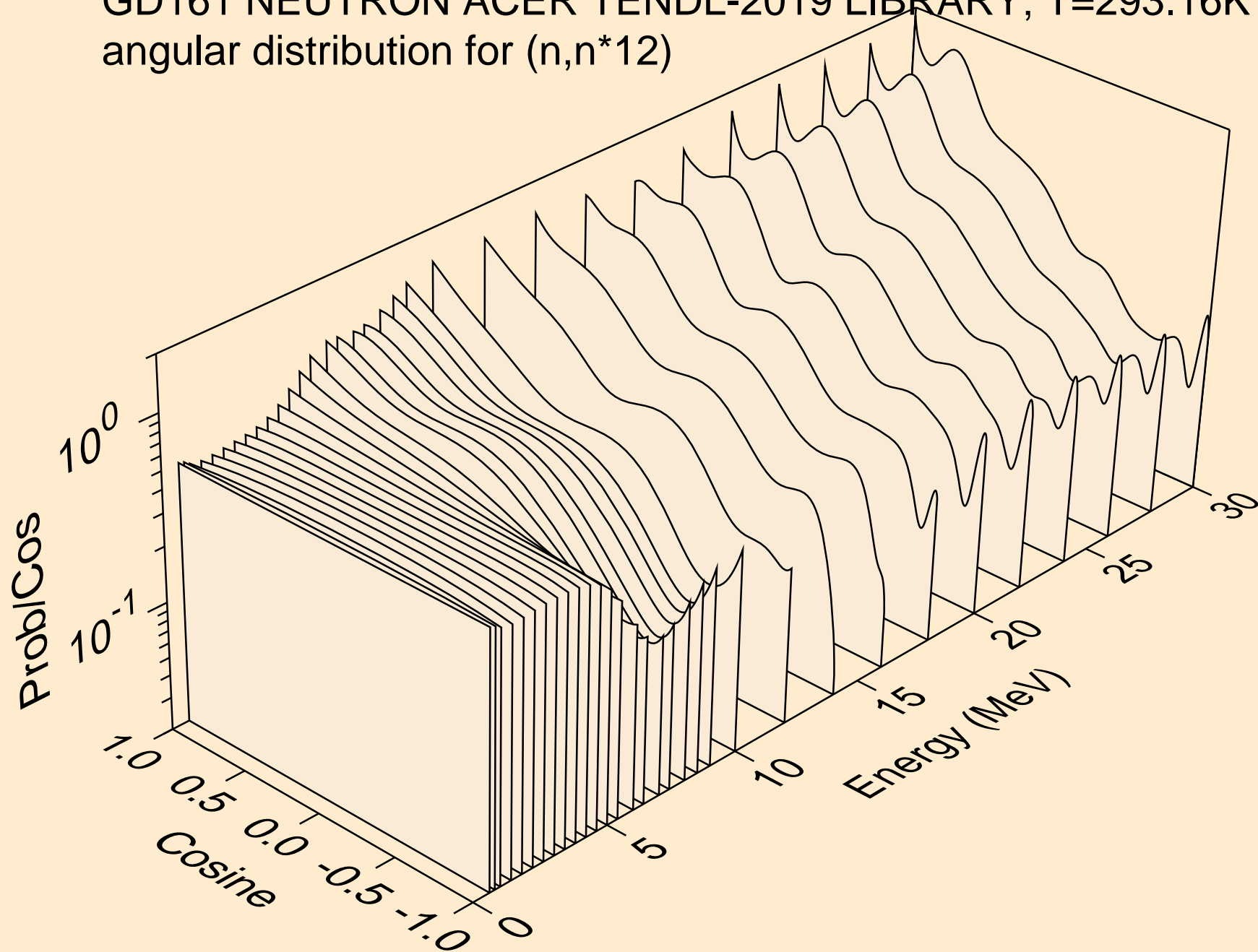
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*10)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*11)

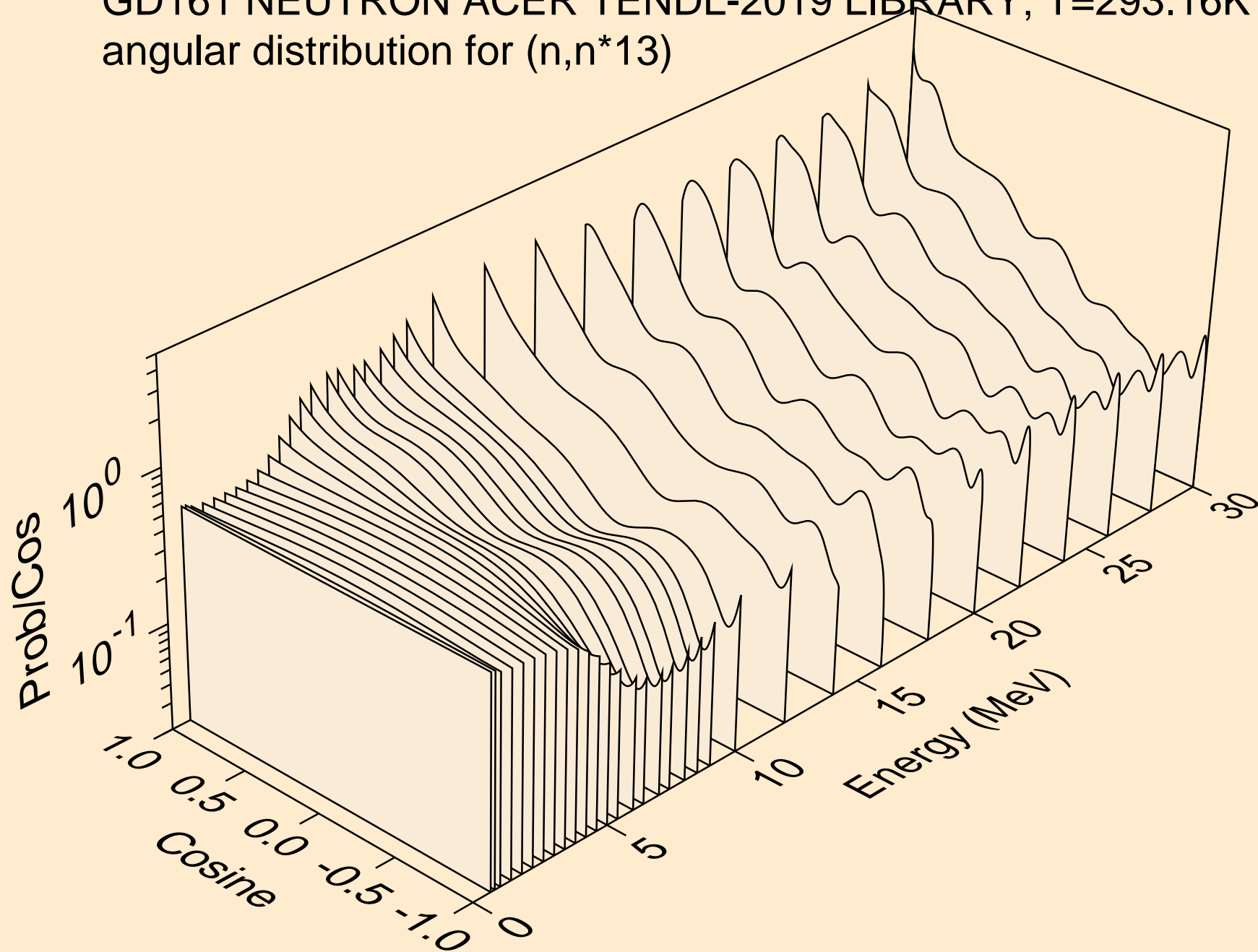


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angular distribution for (n,n\*12)

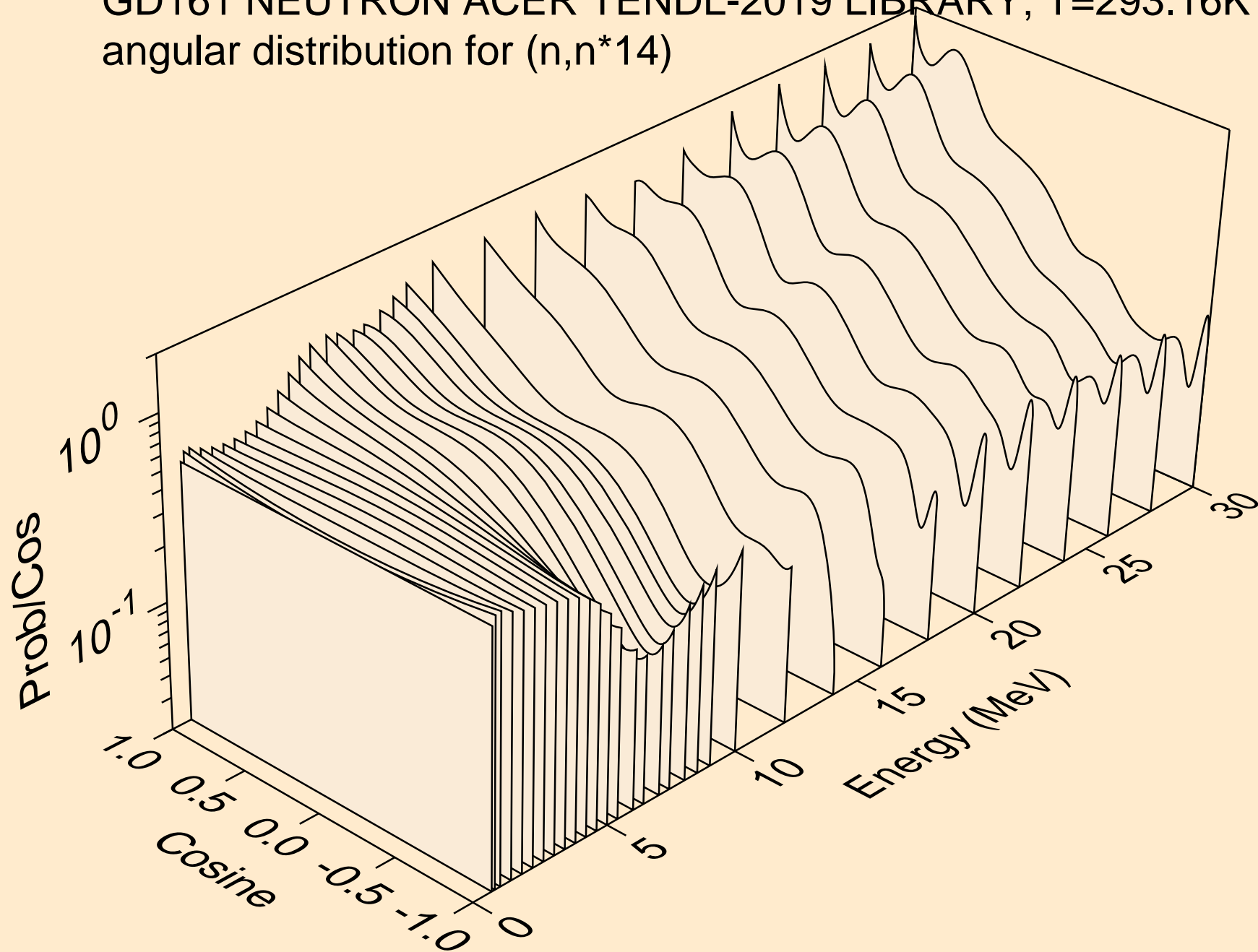




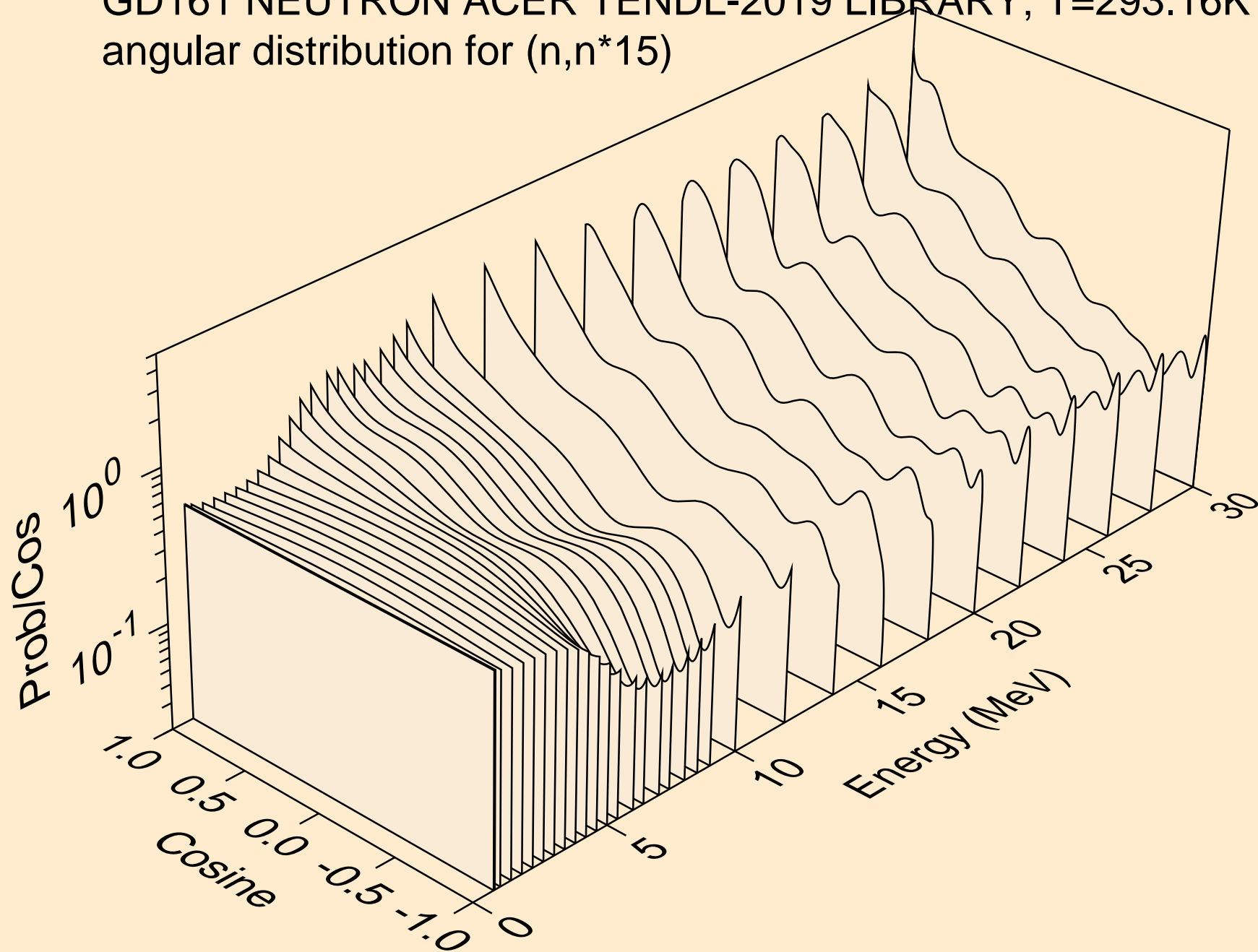
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angular distribution for (n,n\*13)



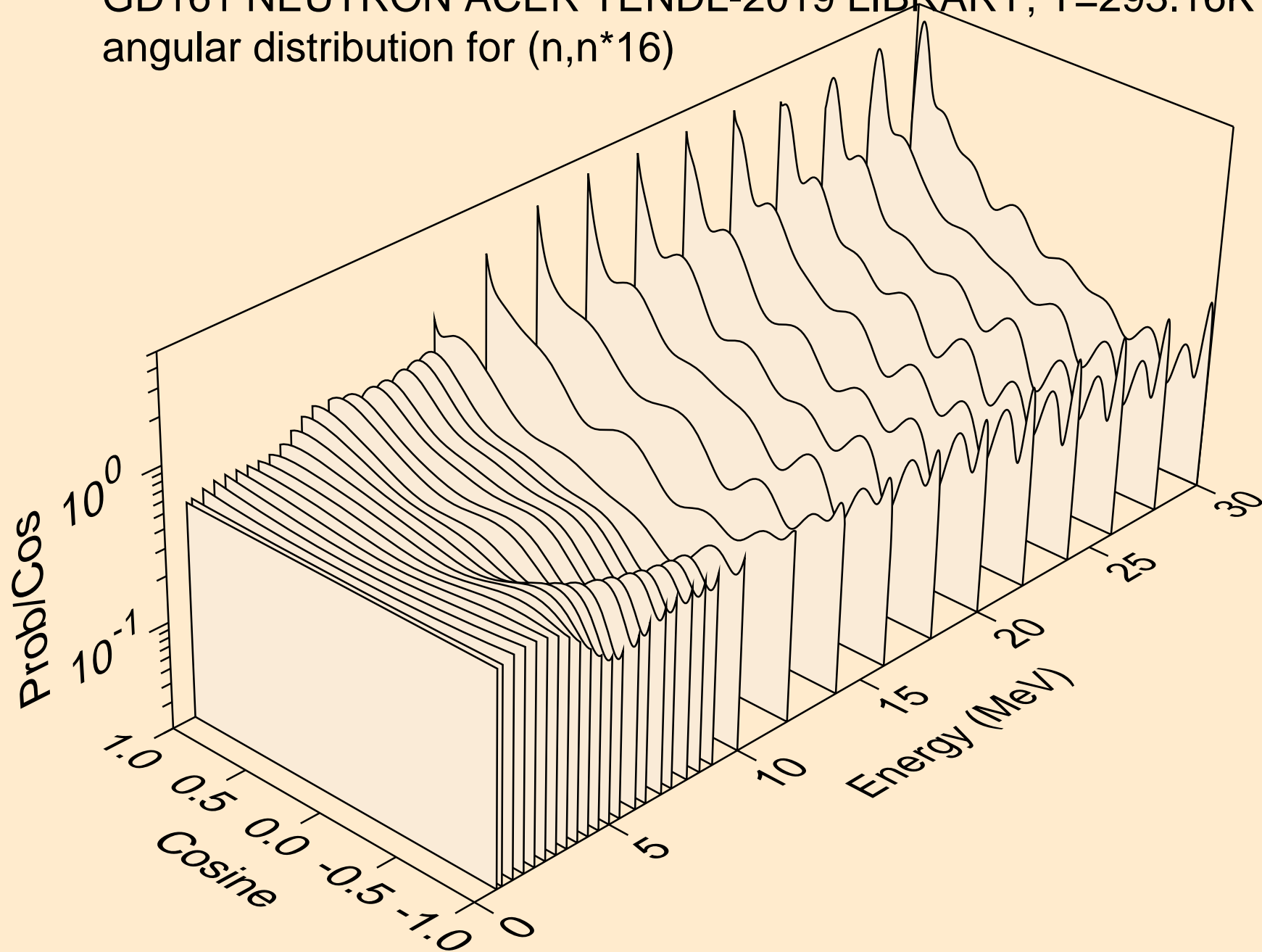
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angular distribution for (n,n\*14)



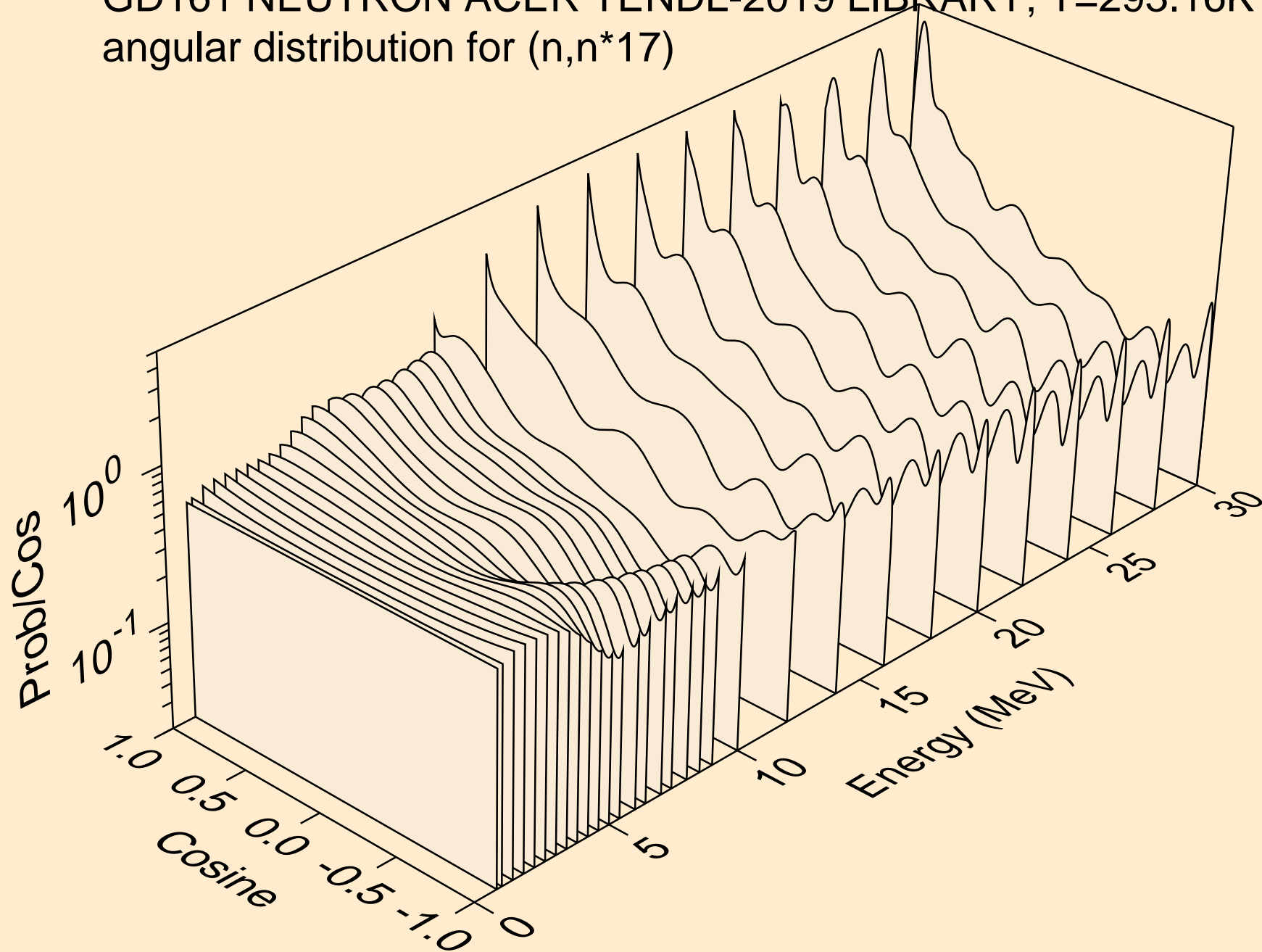
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angular distribution for (n,n\*15)



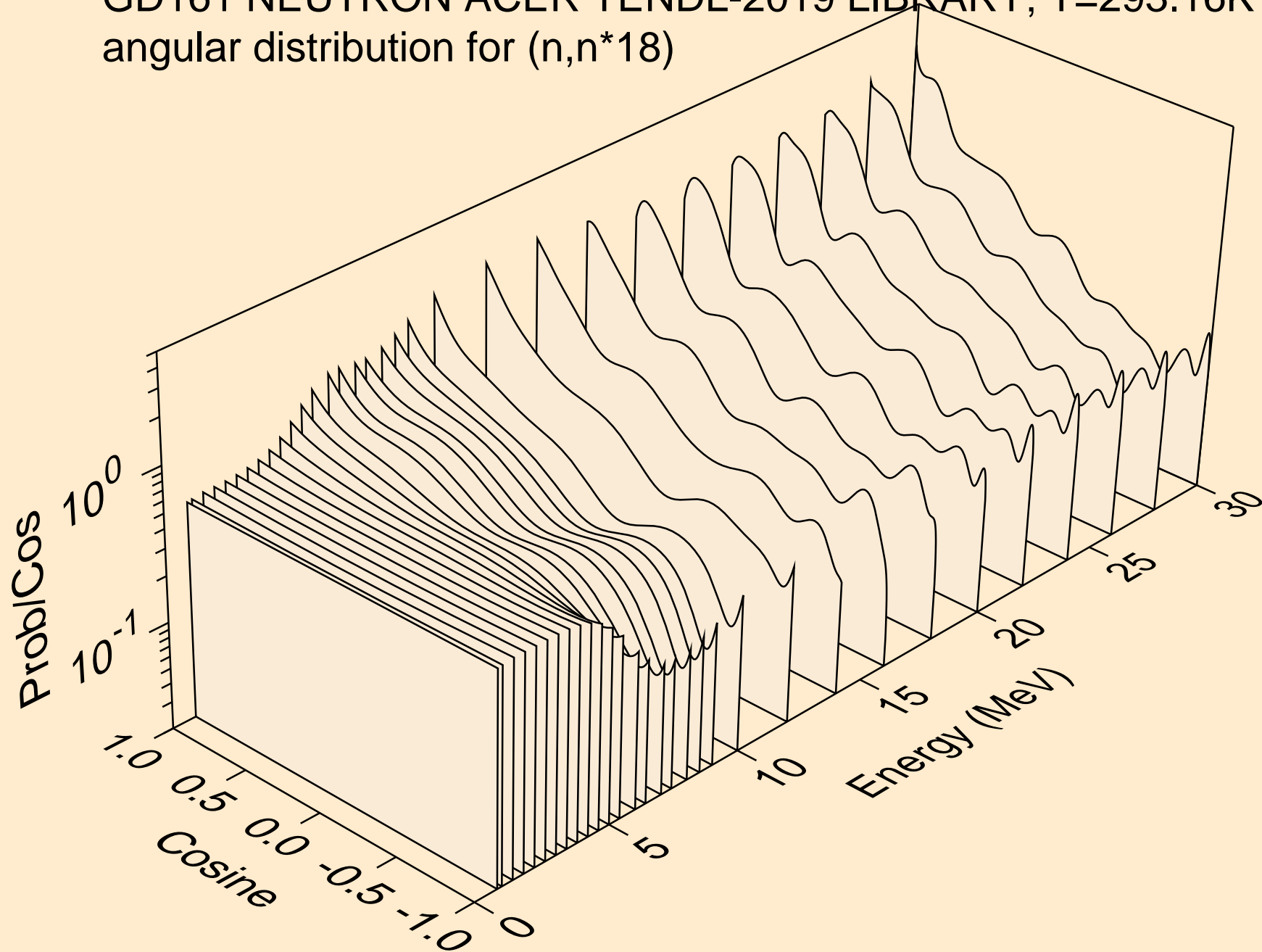
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angular distribution for (n,n\*16)



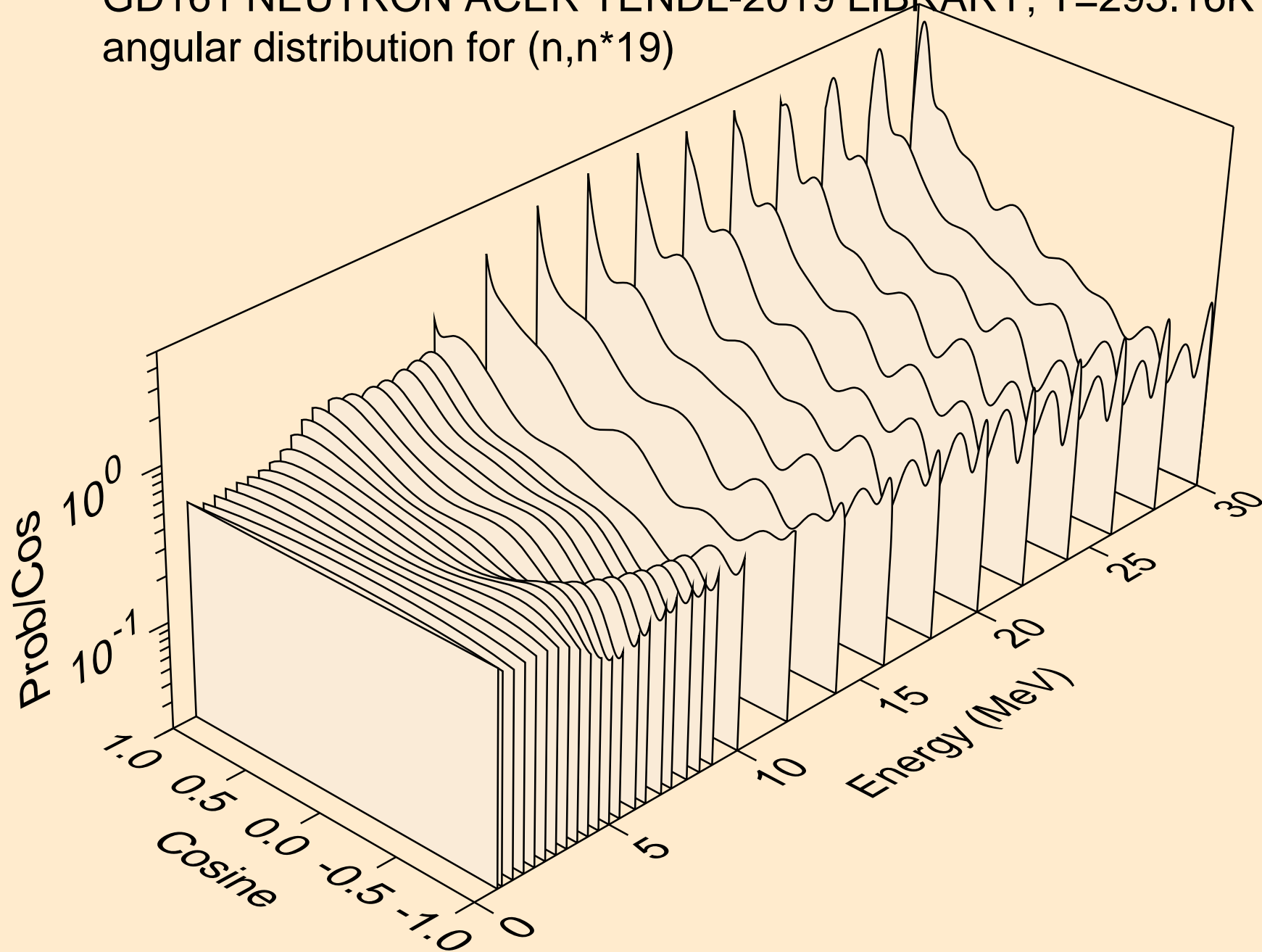
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angular distribution for (n,n\*17)



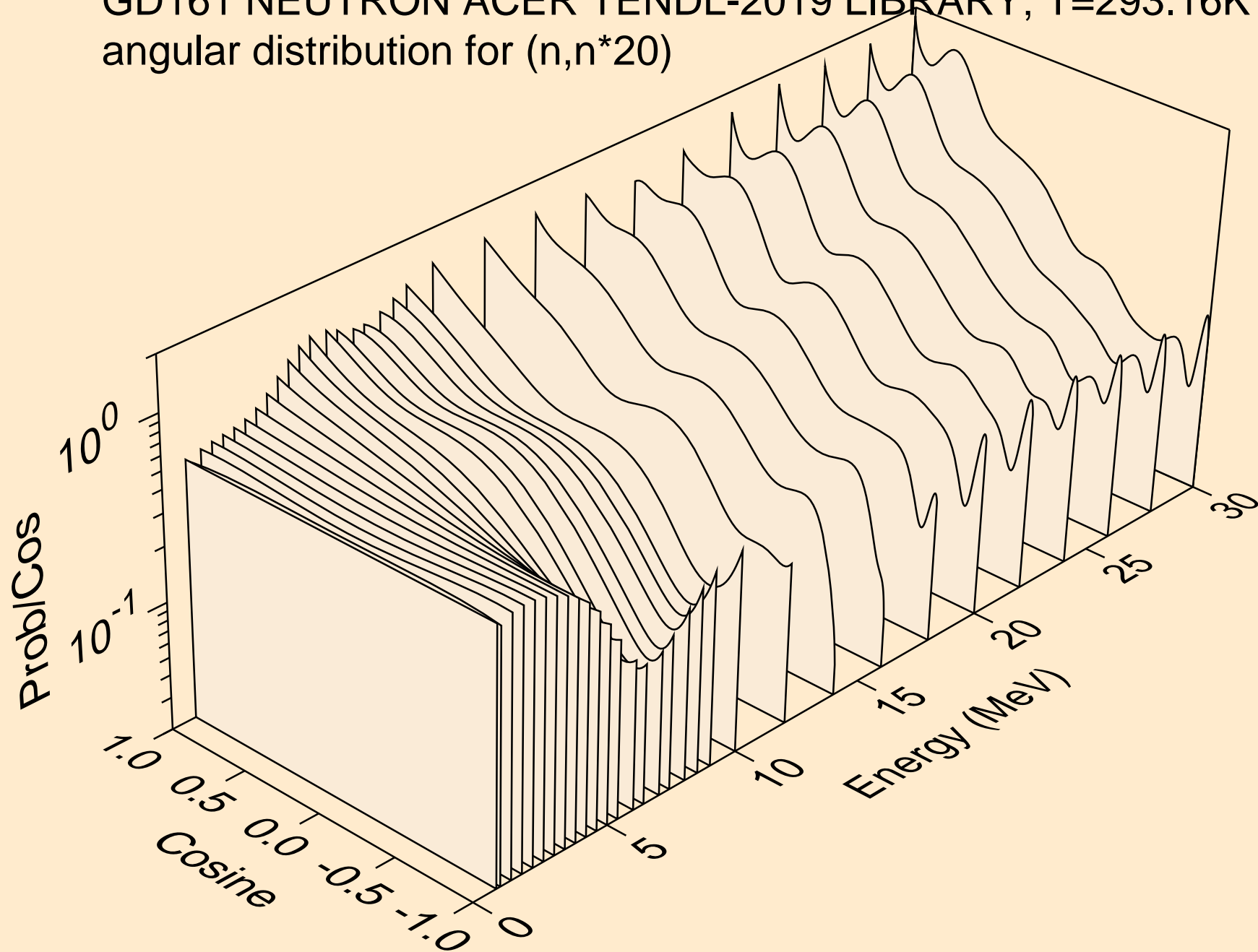
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*18)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*19)

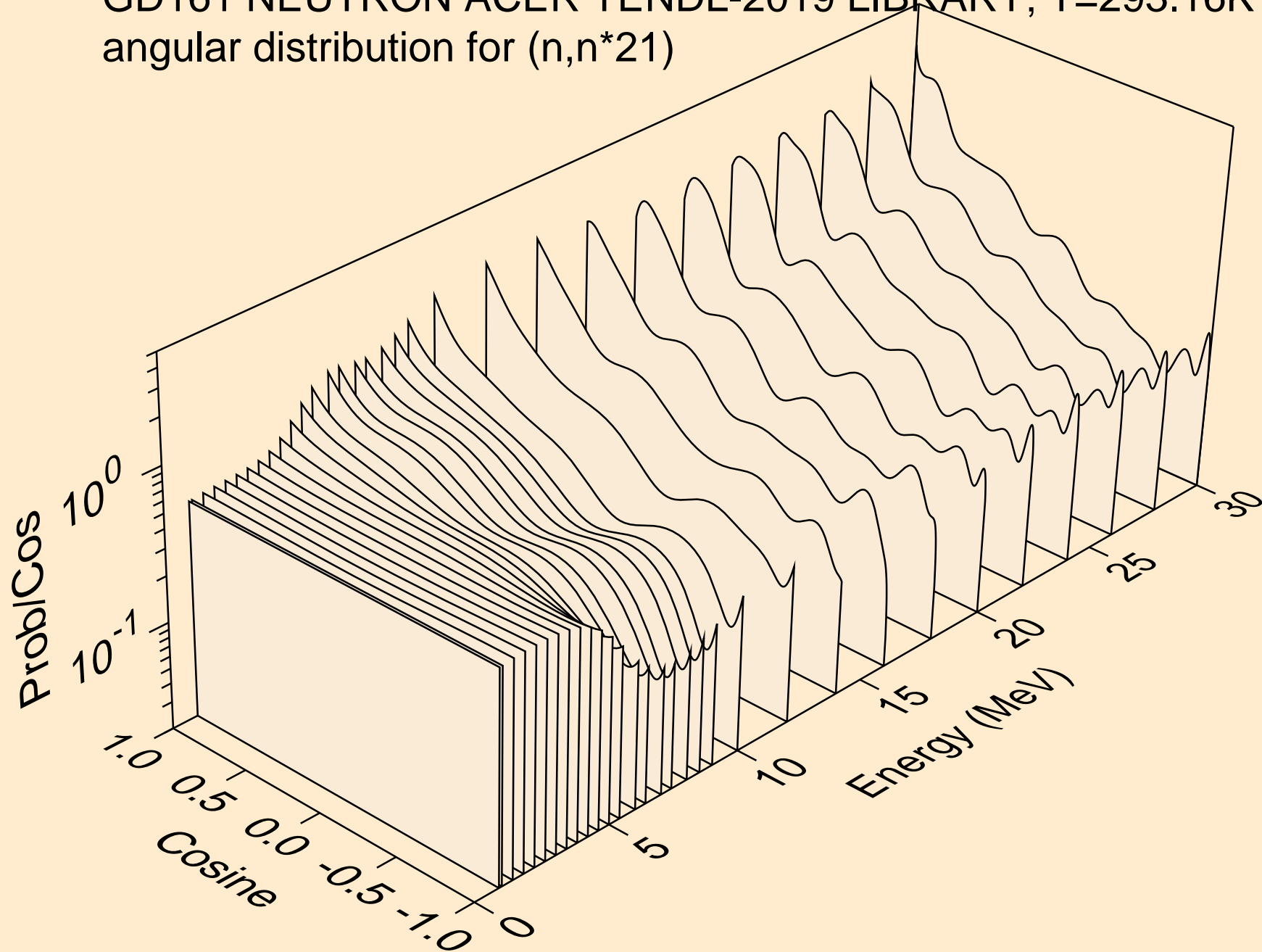


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angular distribution for (n,n\*20)

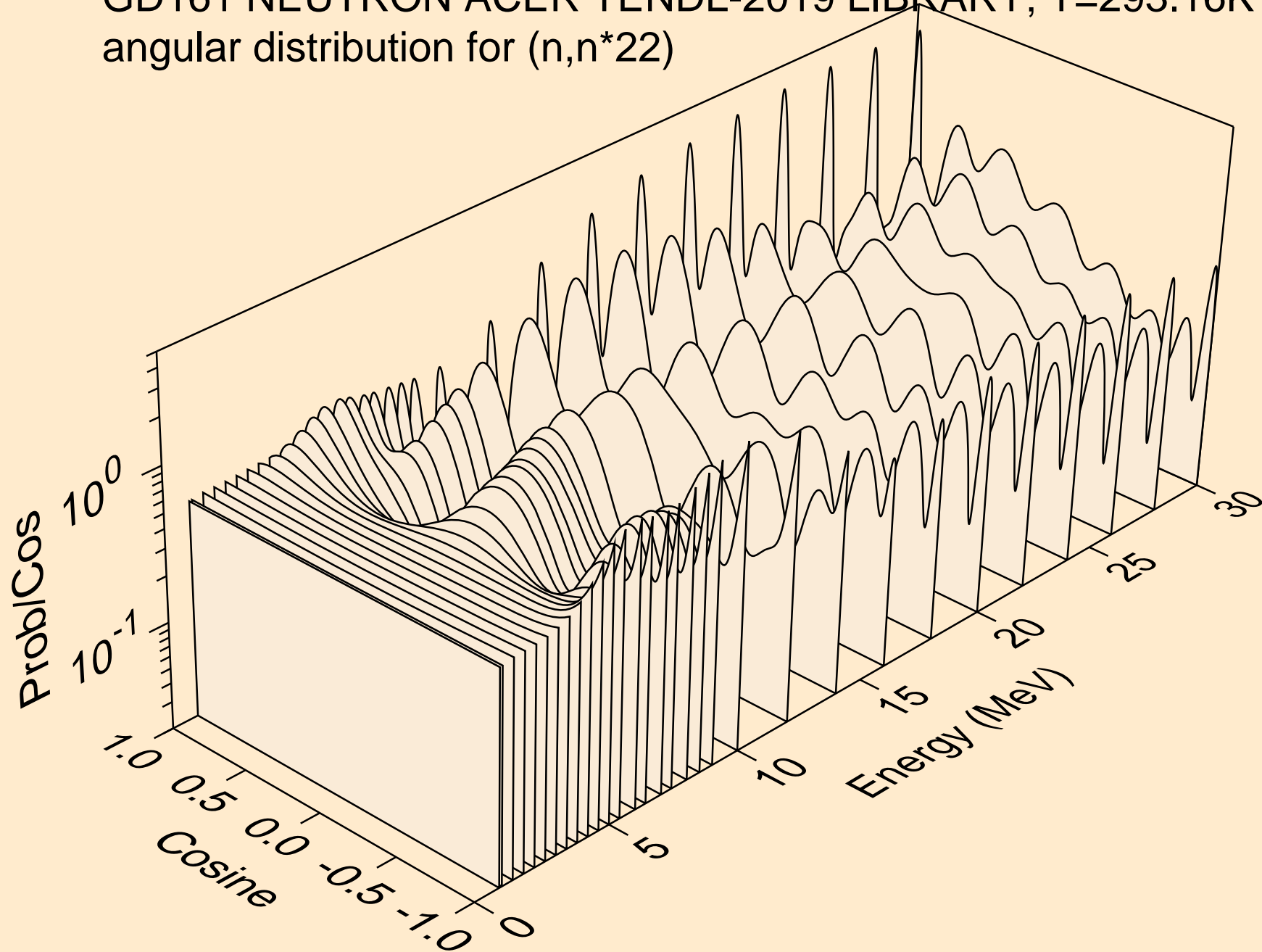




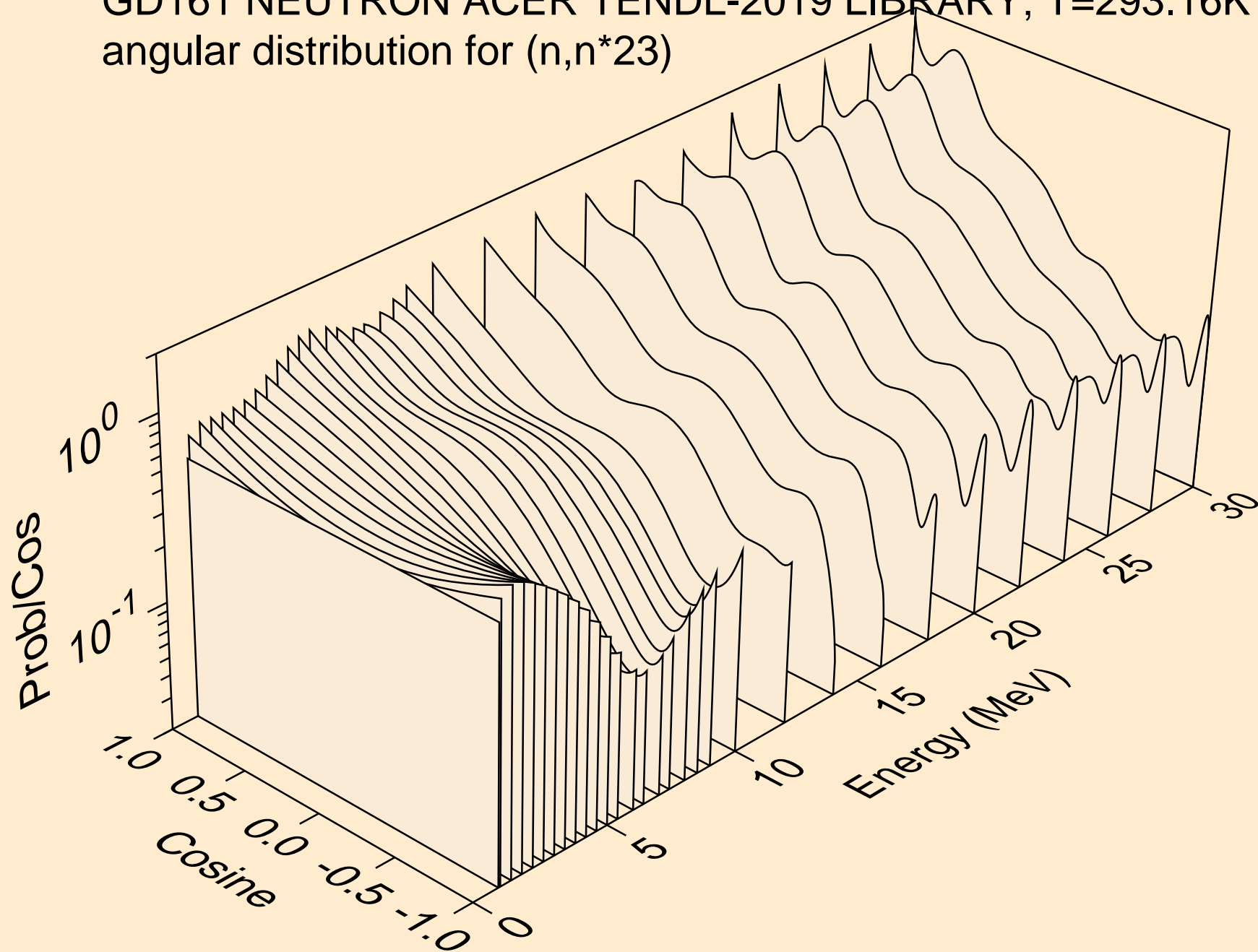
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angular distribution for (n,n\*21)



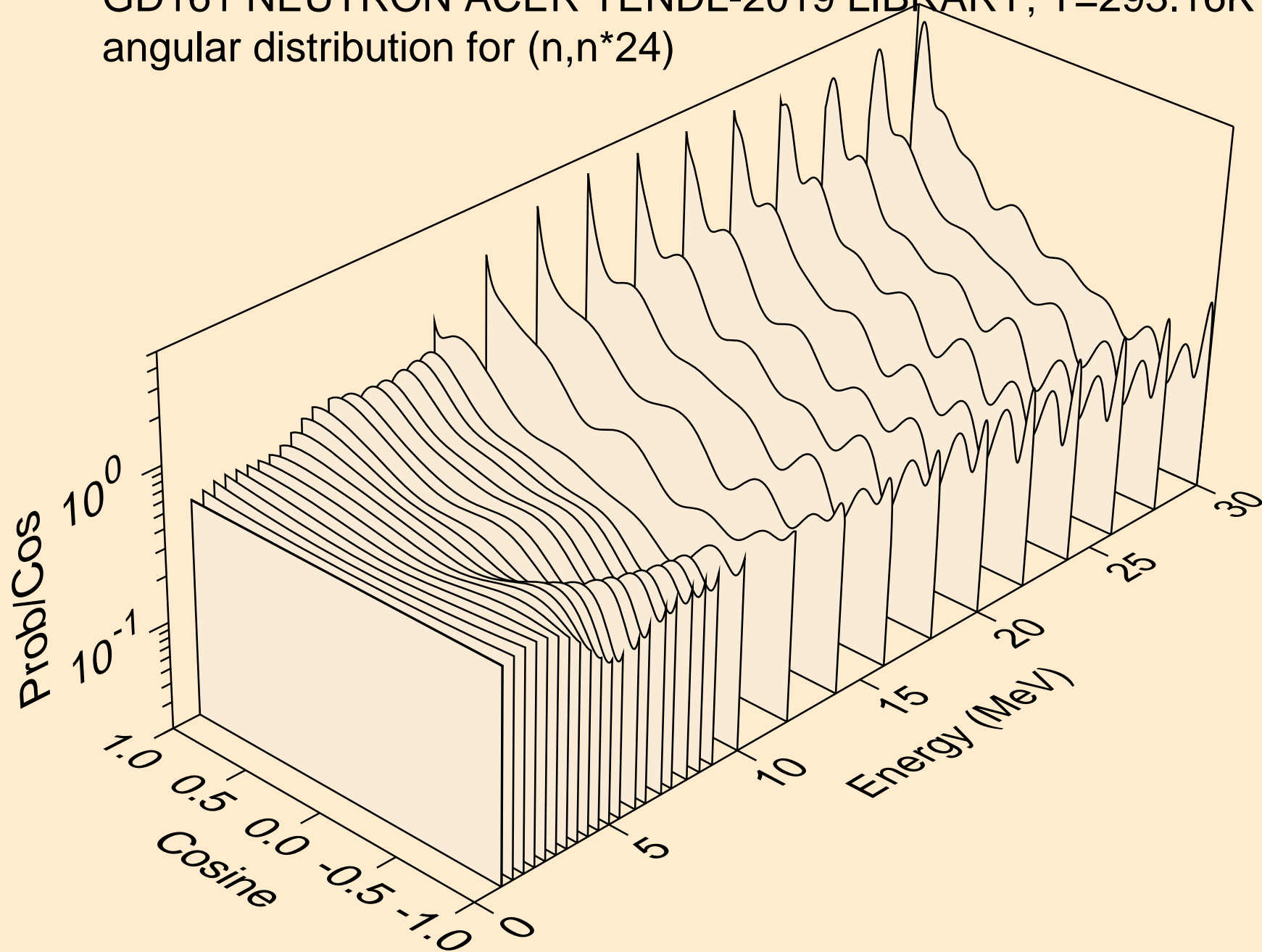
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angular distribution for (n,n\*22)



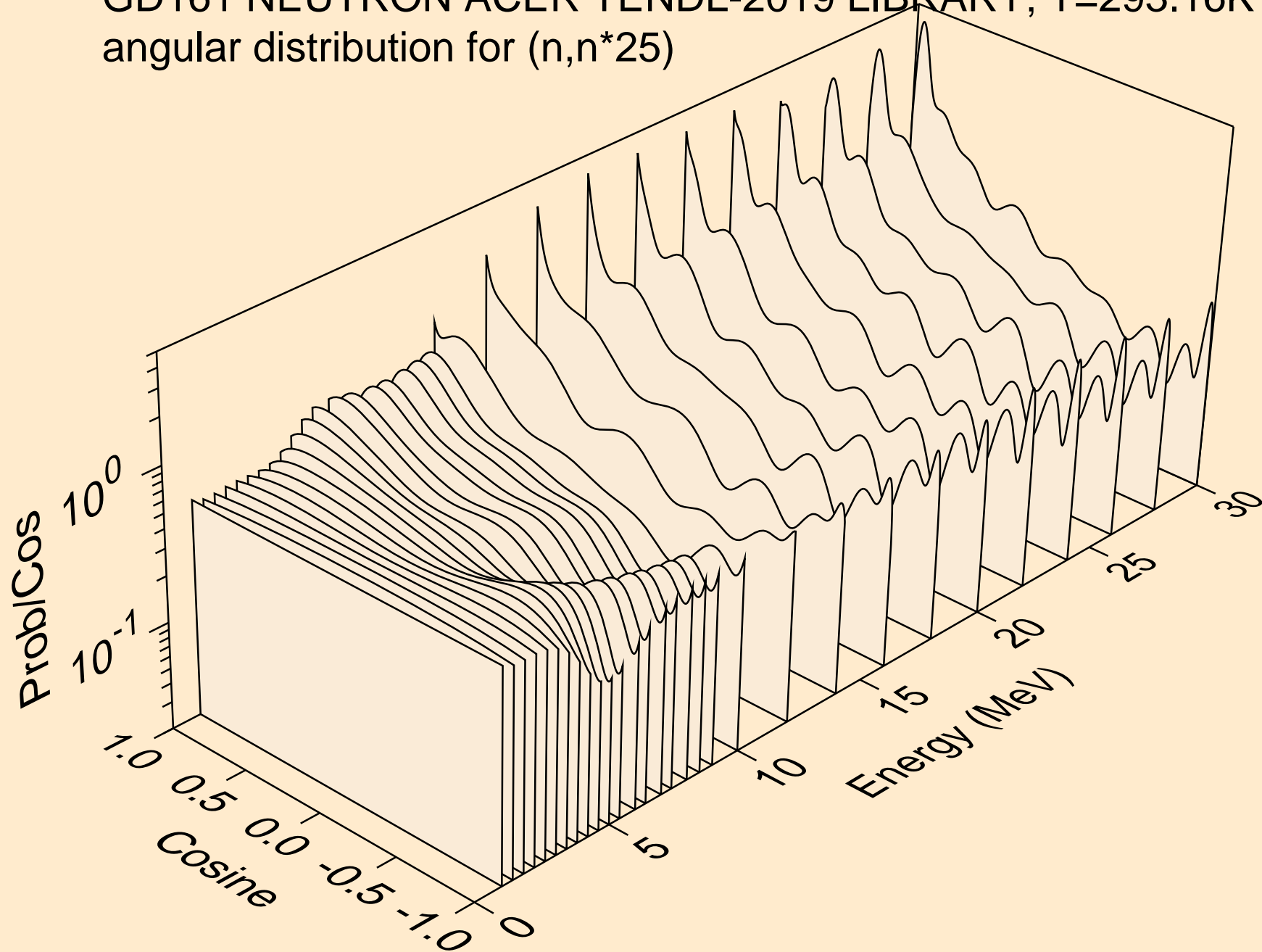
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angular distribution for (n,n\*23)



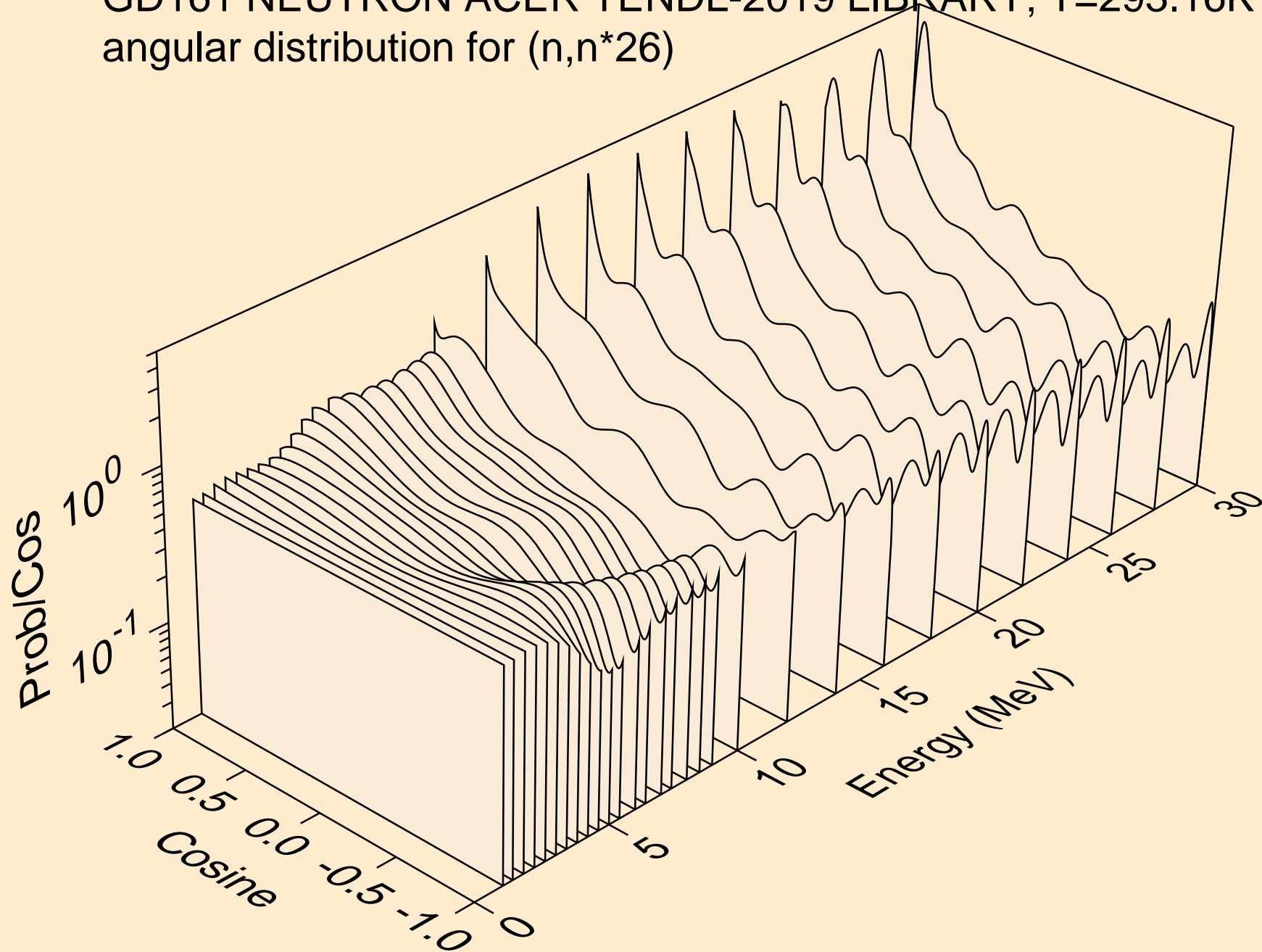
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angular distribution for (n,n\*24)



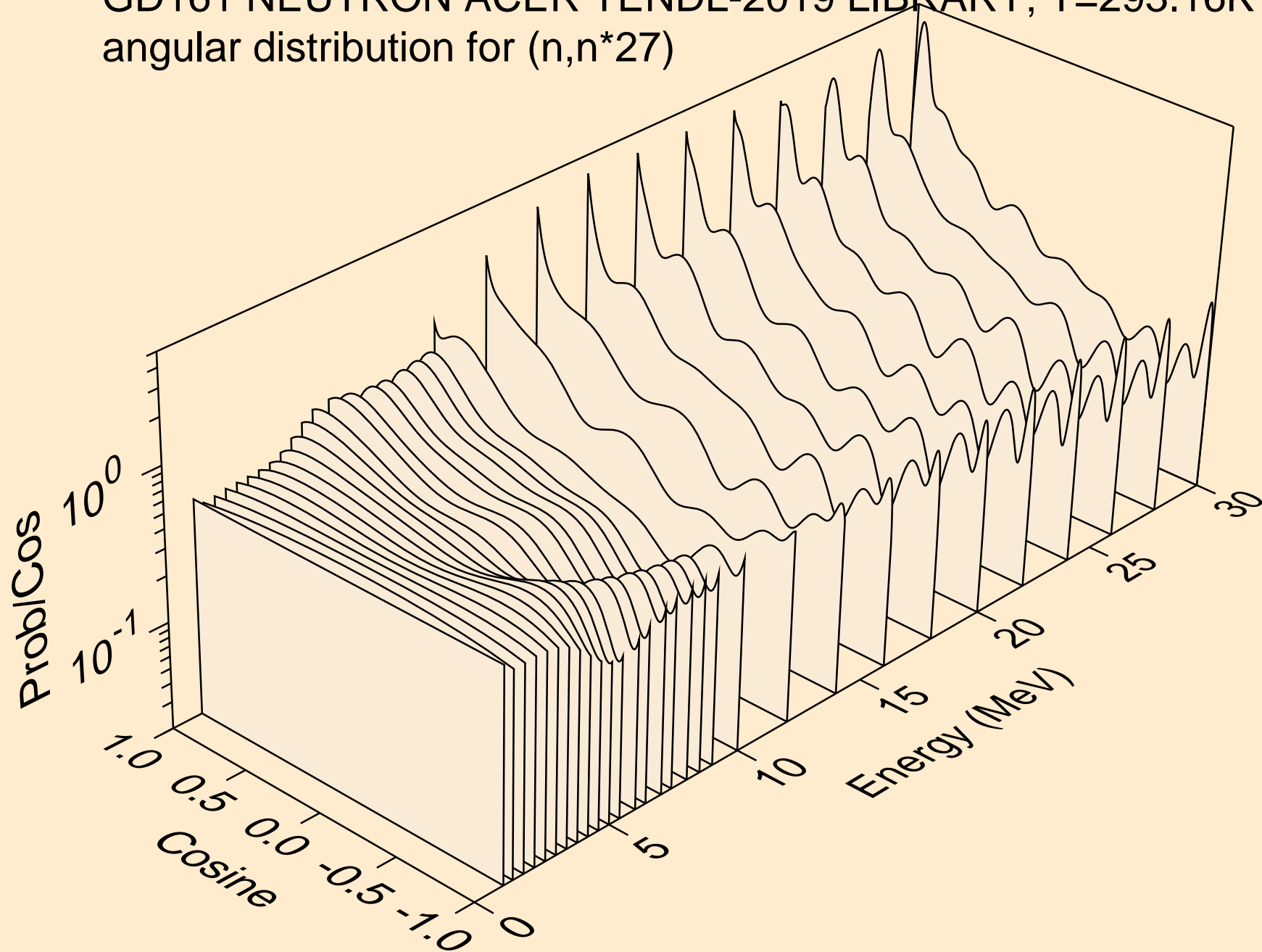
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angular distribution for (n,n\*25)



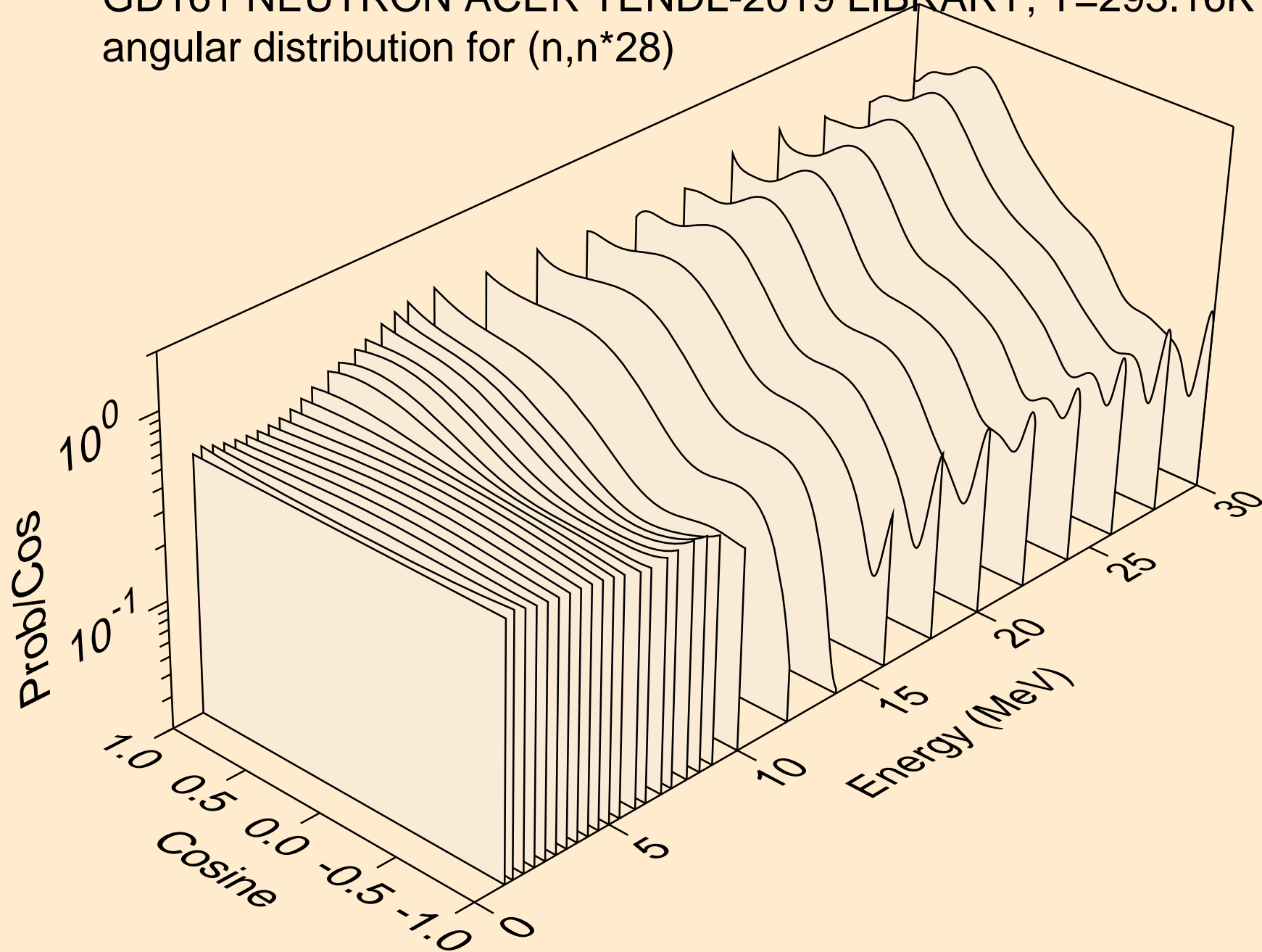
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*26)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*27)

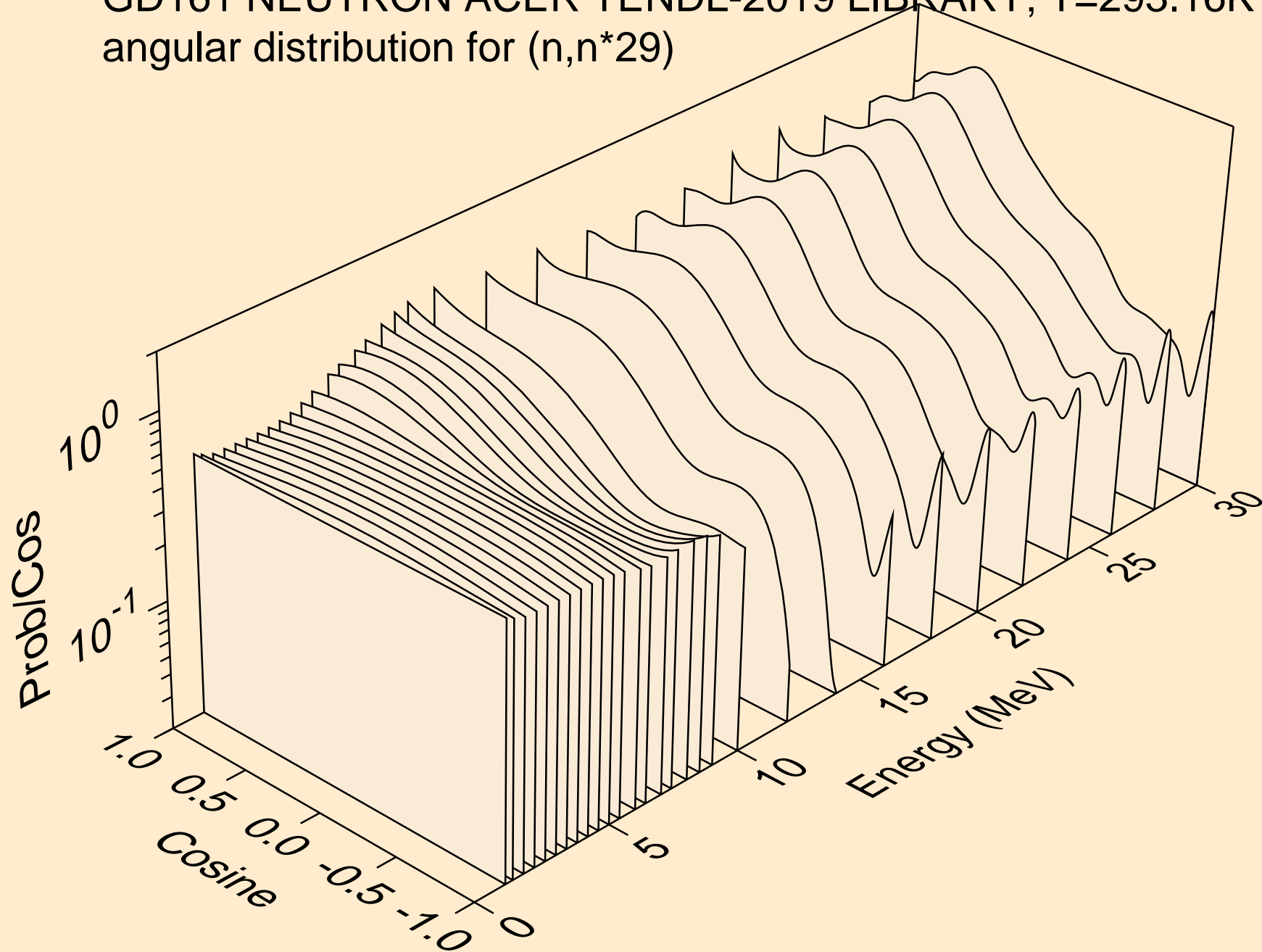


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angular distribution for (n,n\*28)

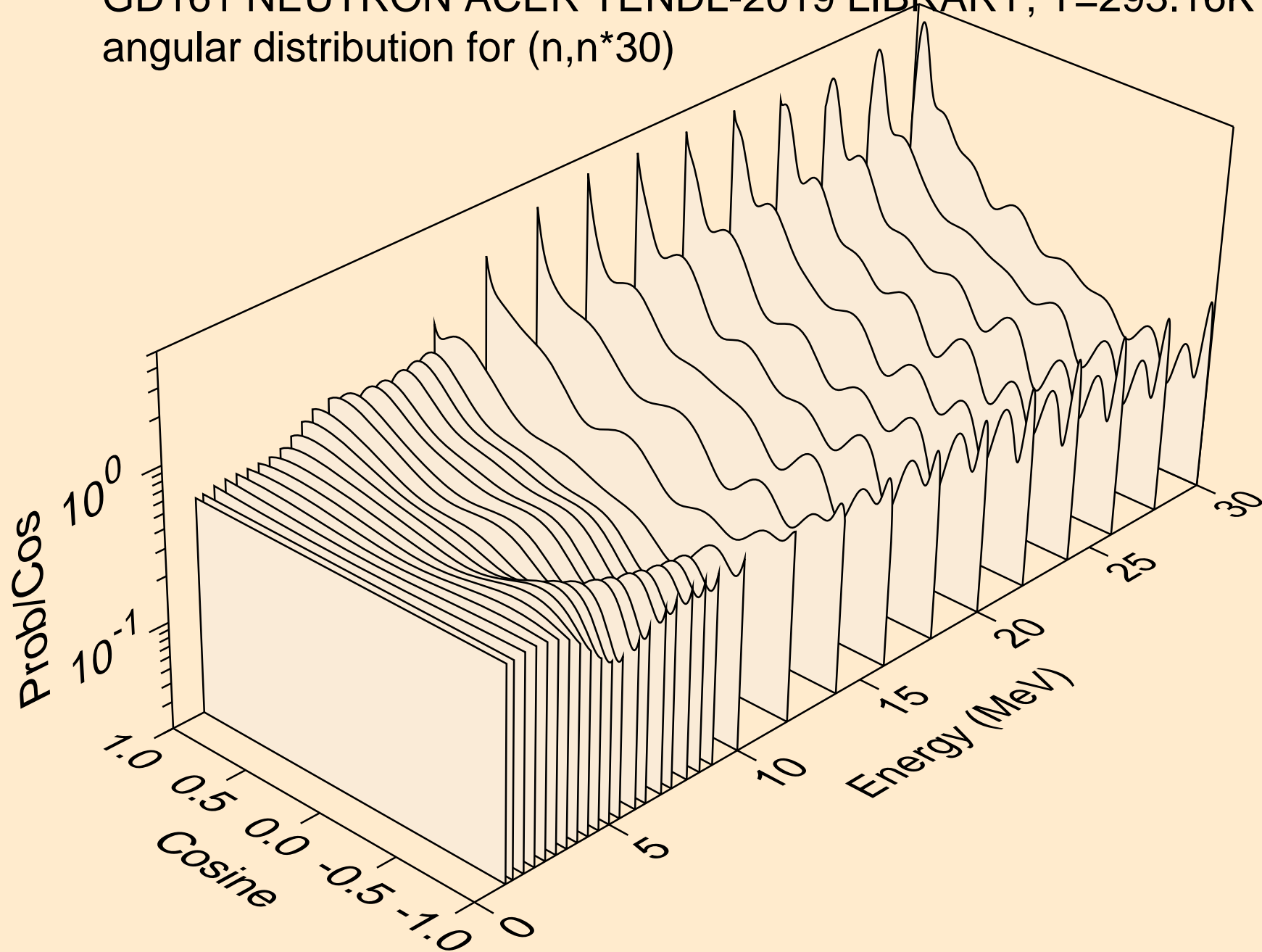




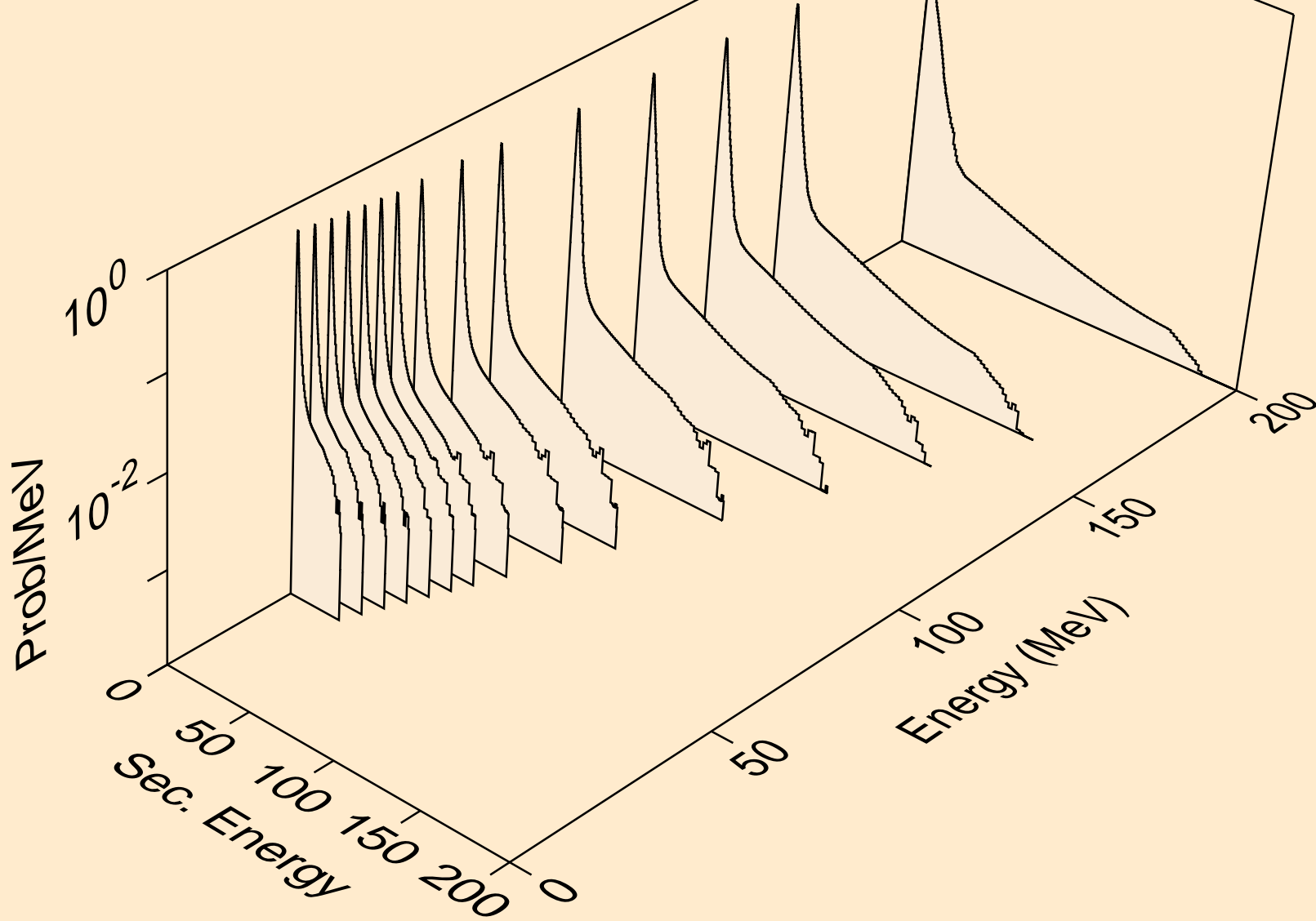
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angular distribution for (n,n\*29)



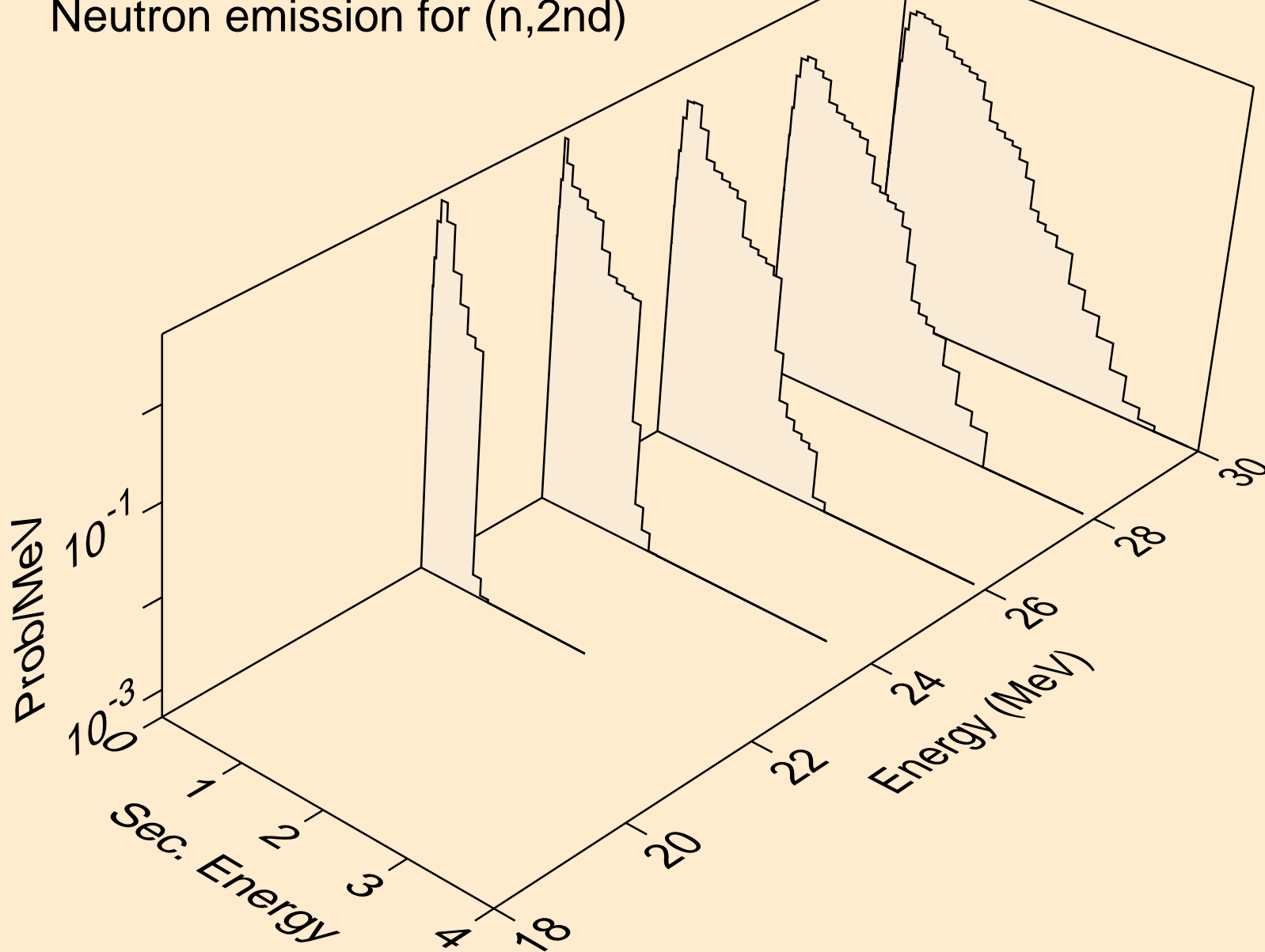
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angular distribution for (n,n\*30)



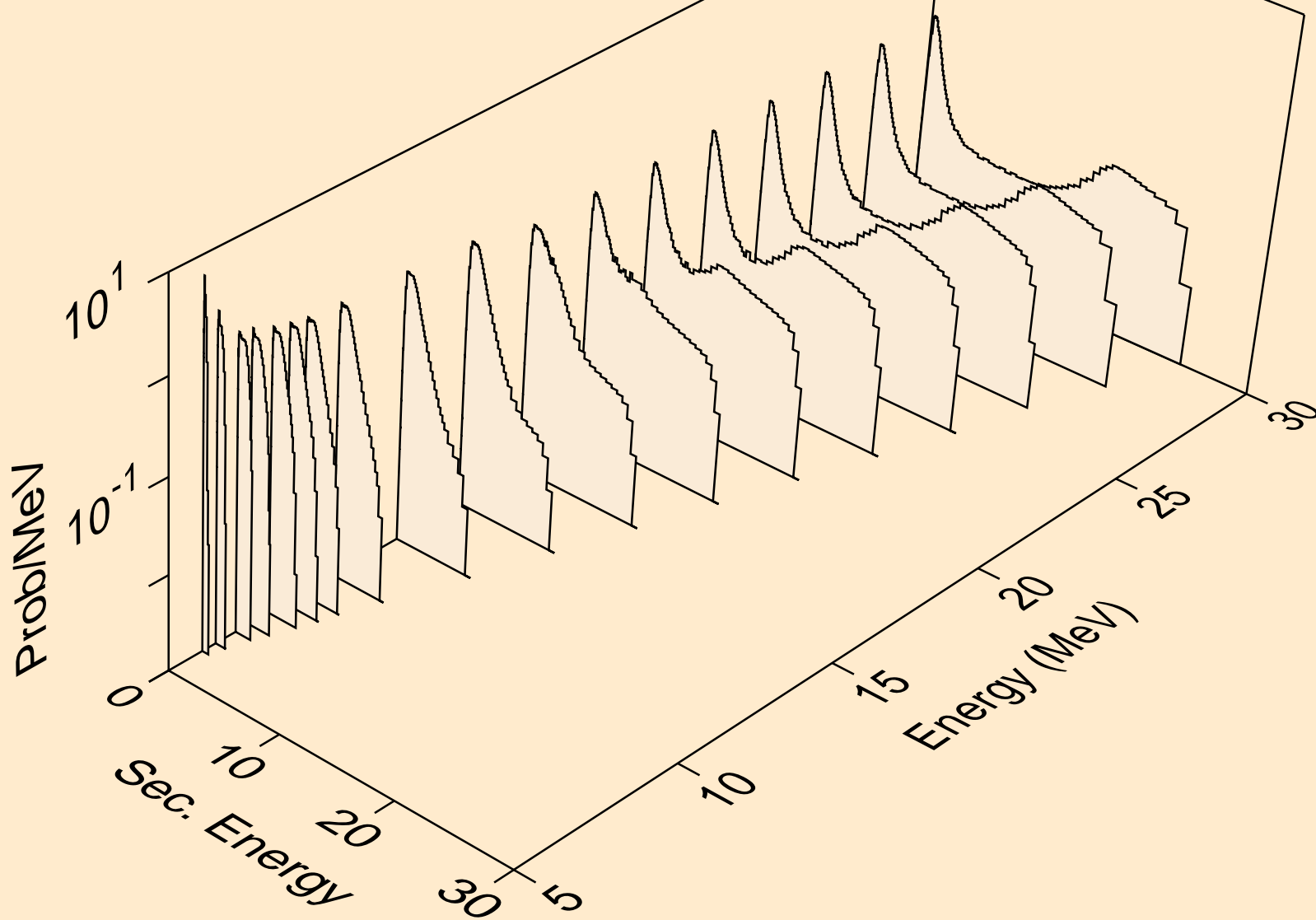
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Neutron emission for (n,x)



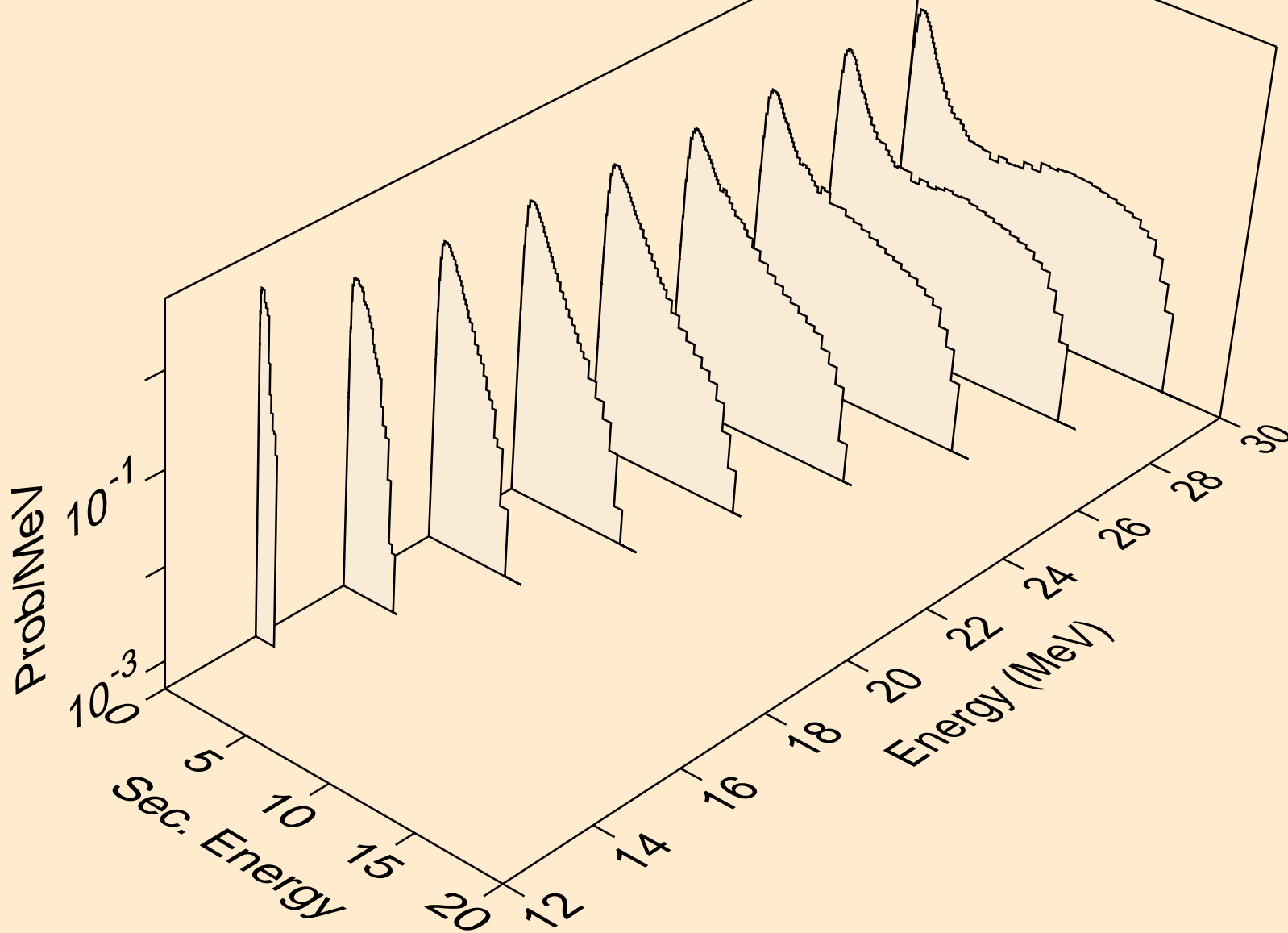
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



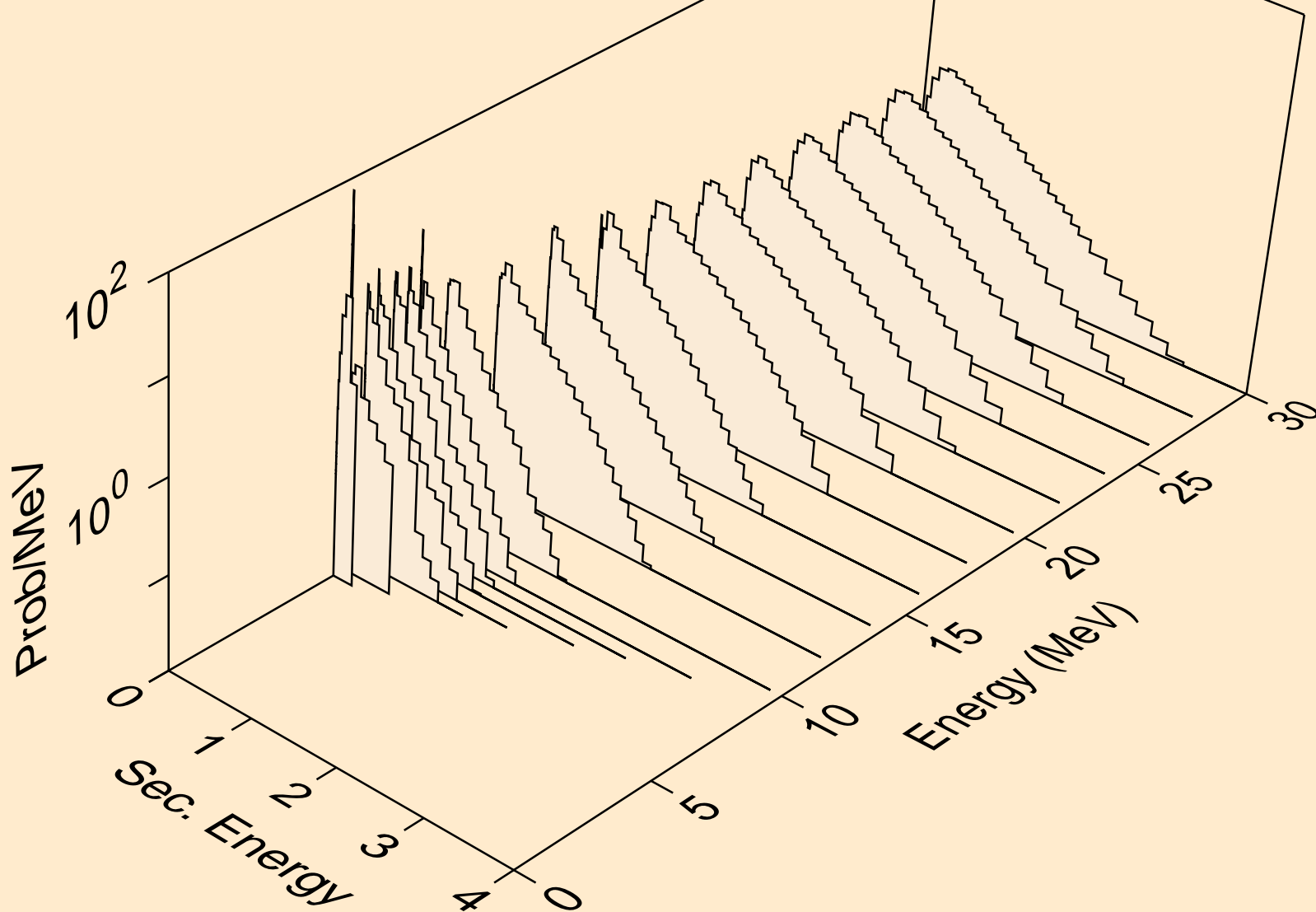
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



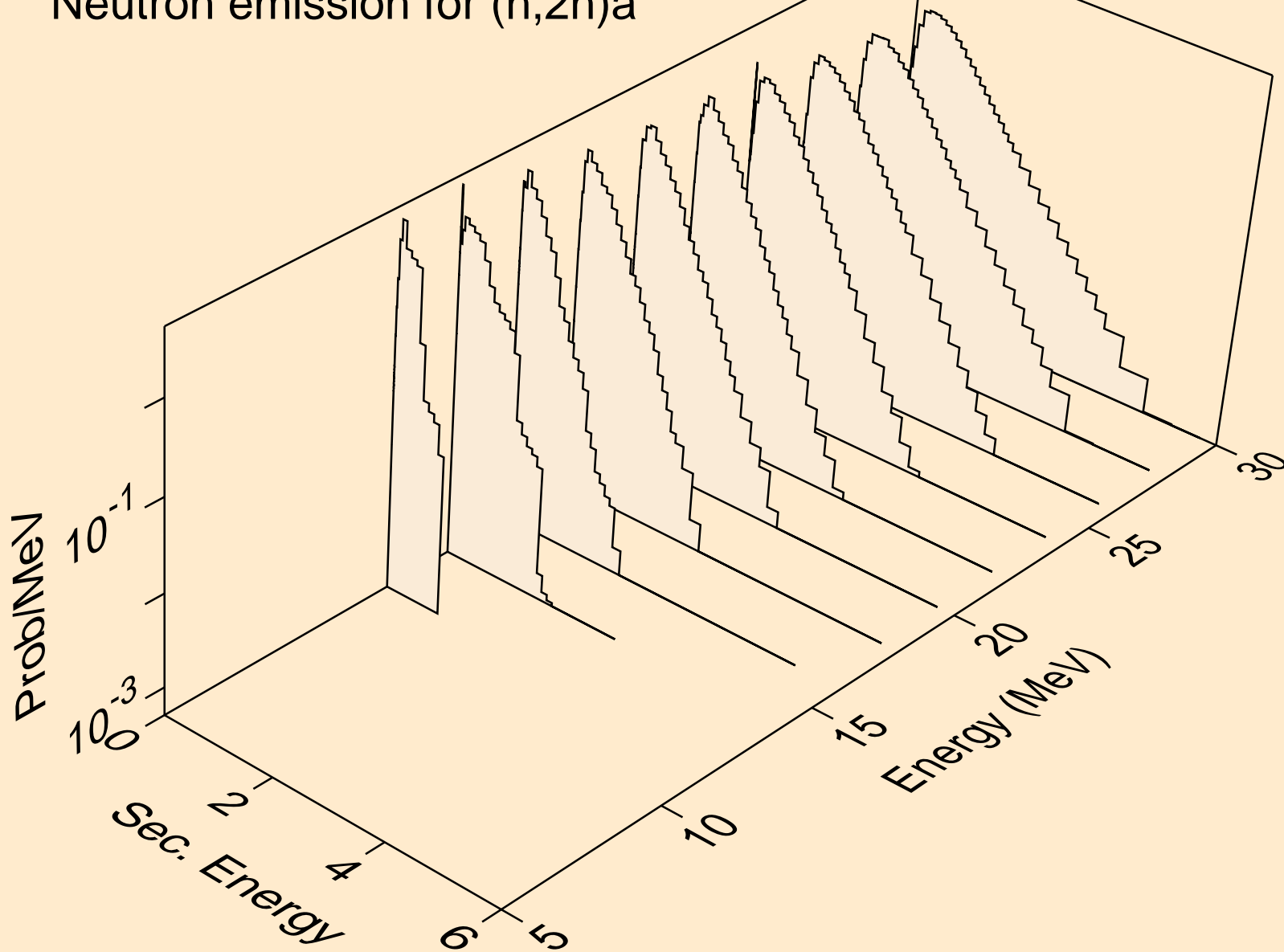
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a

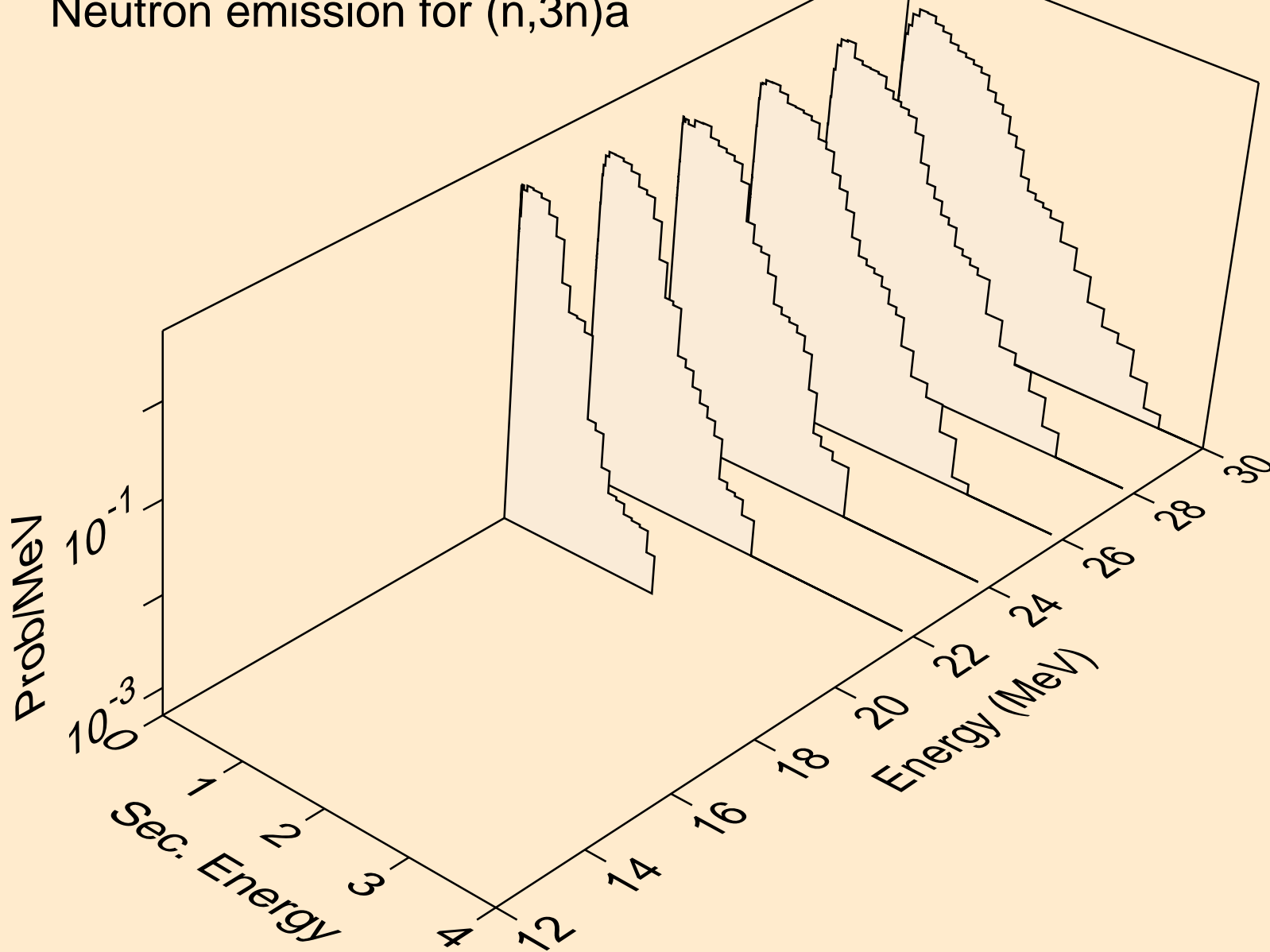


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a

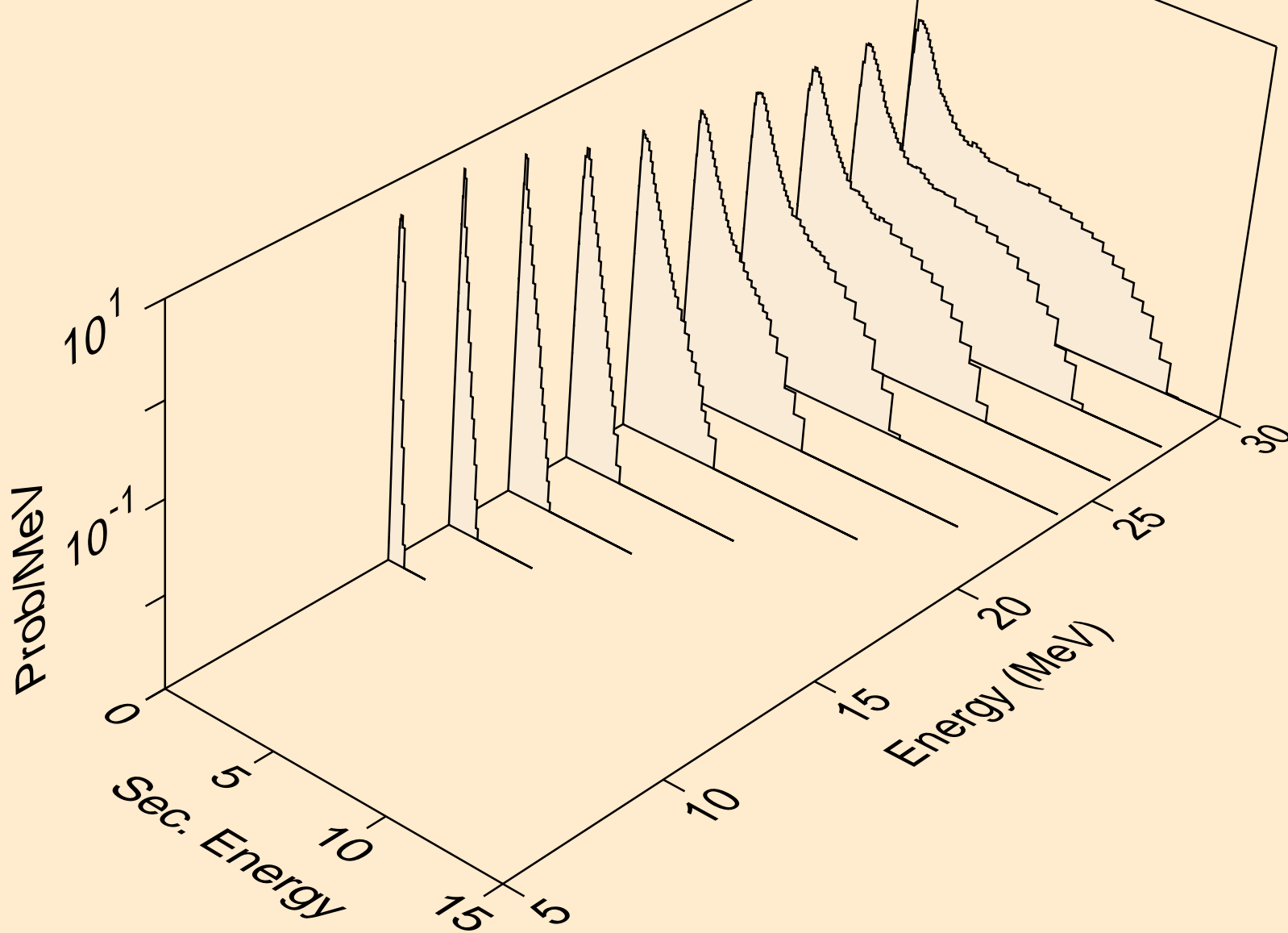




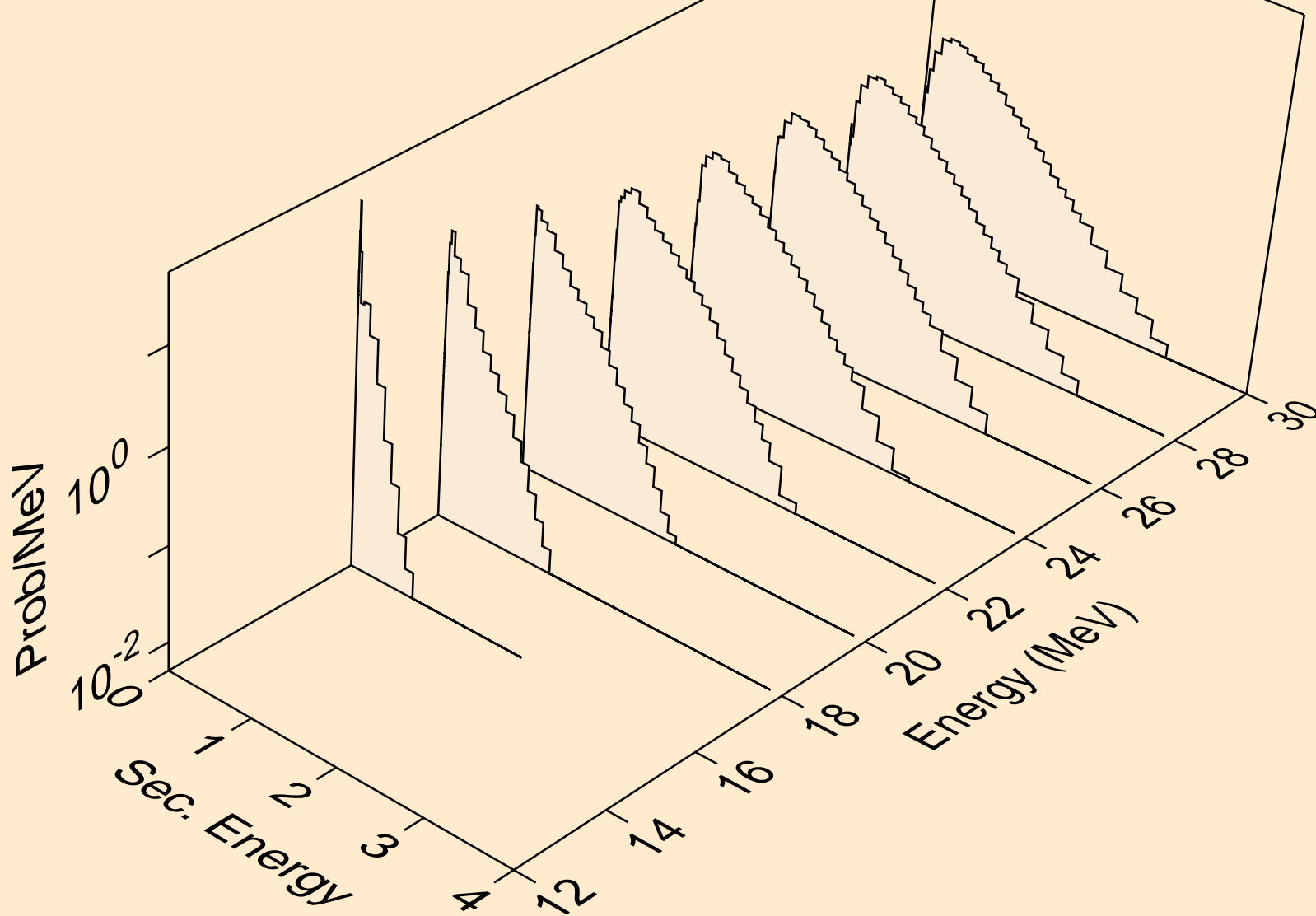
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



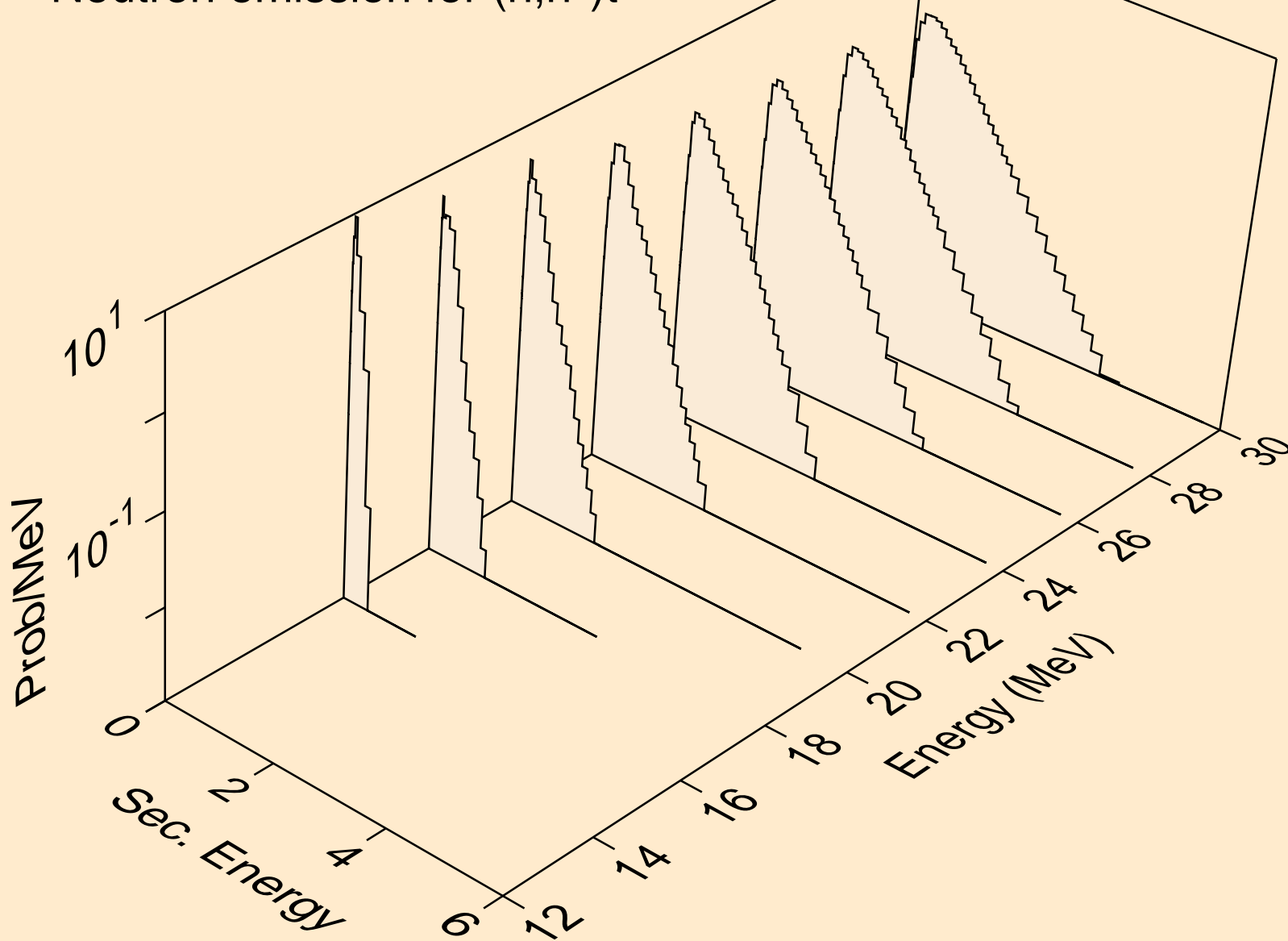
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Neutron emission for (n,n\*)p



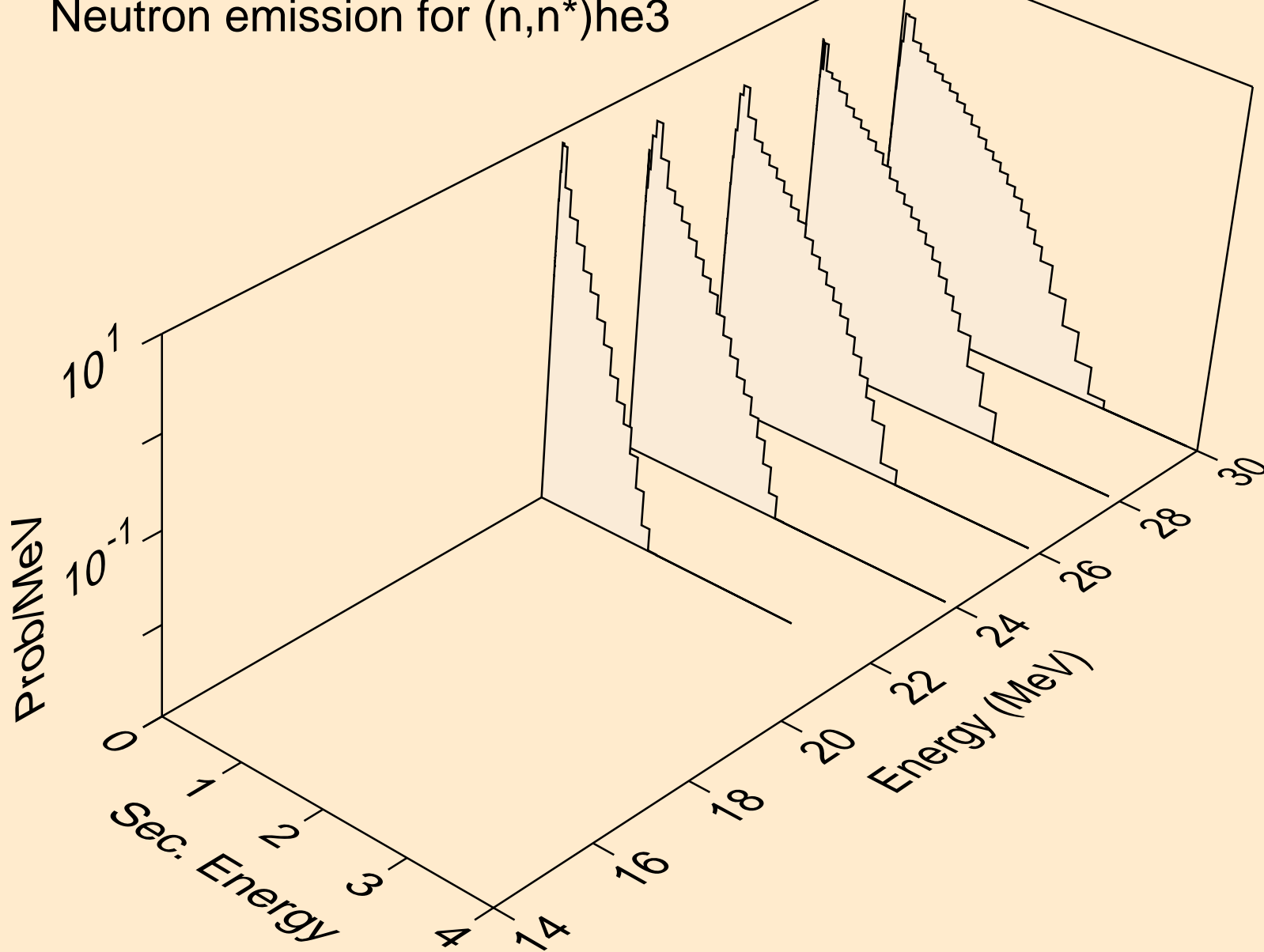
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



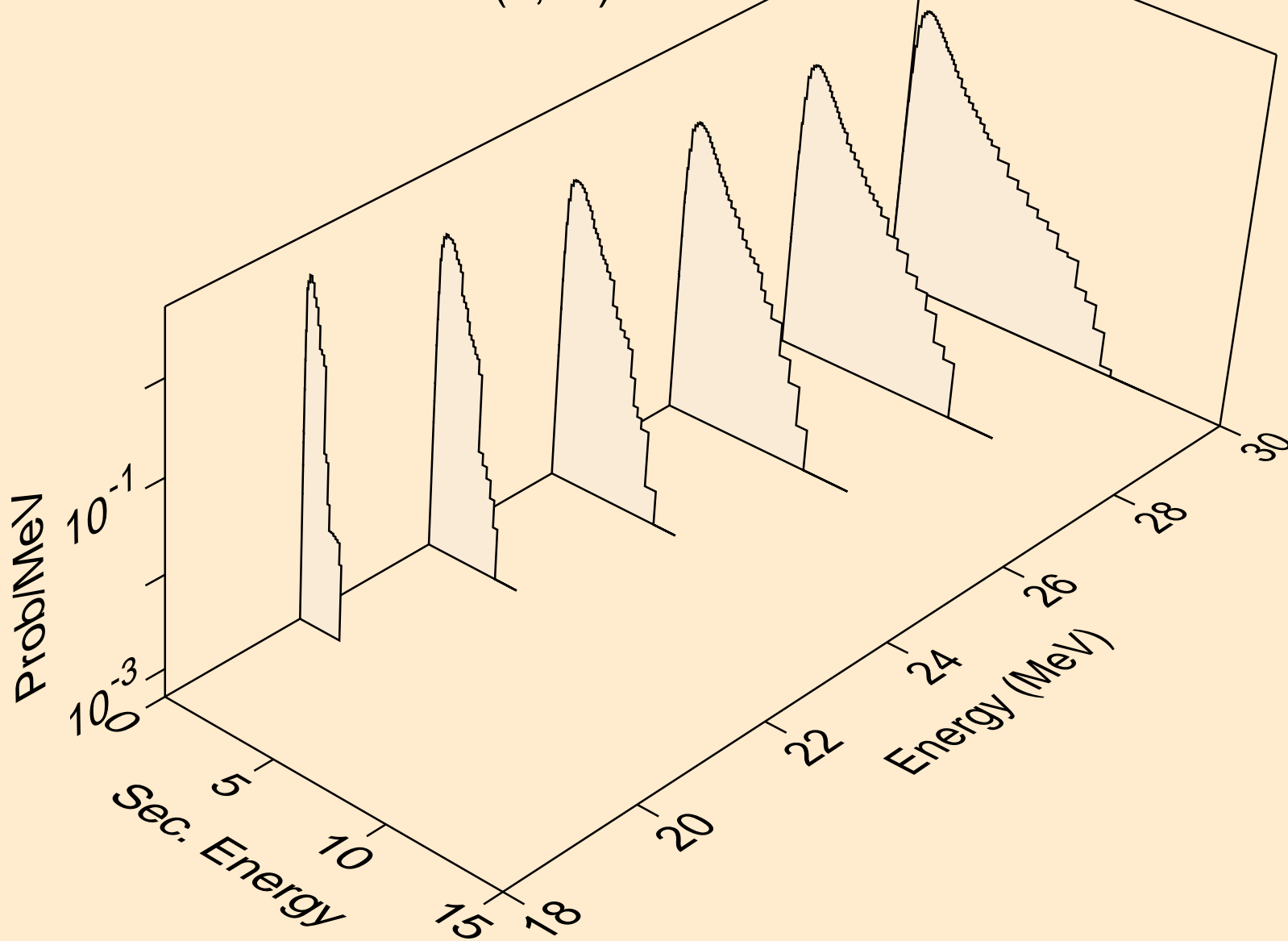
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



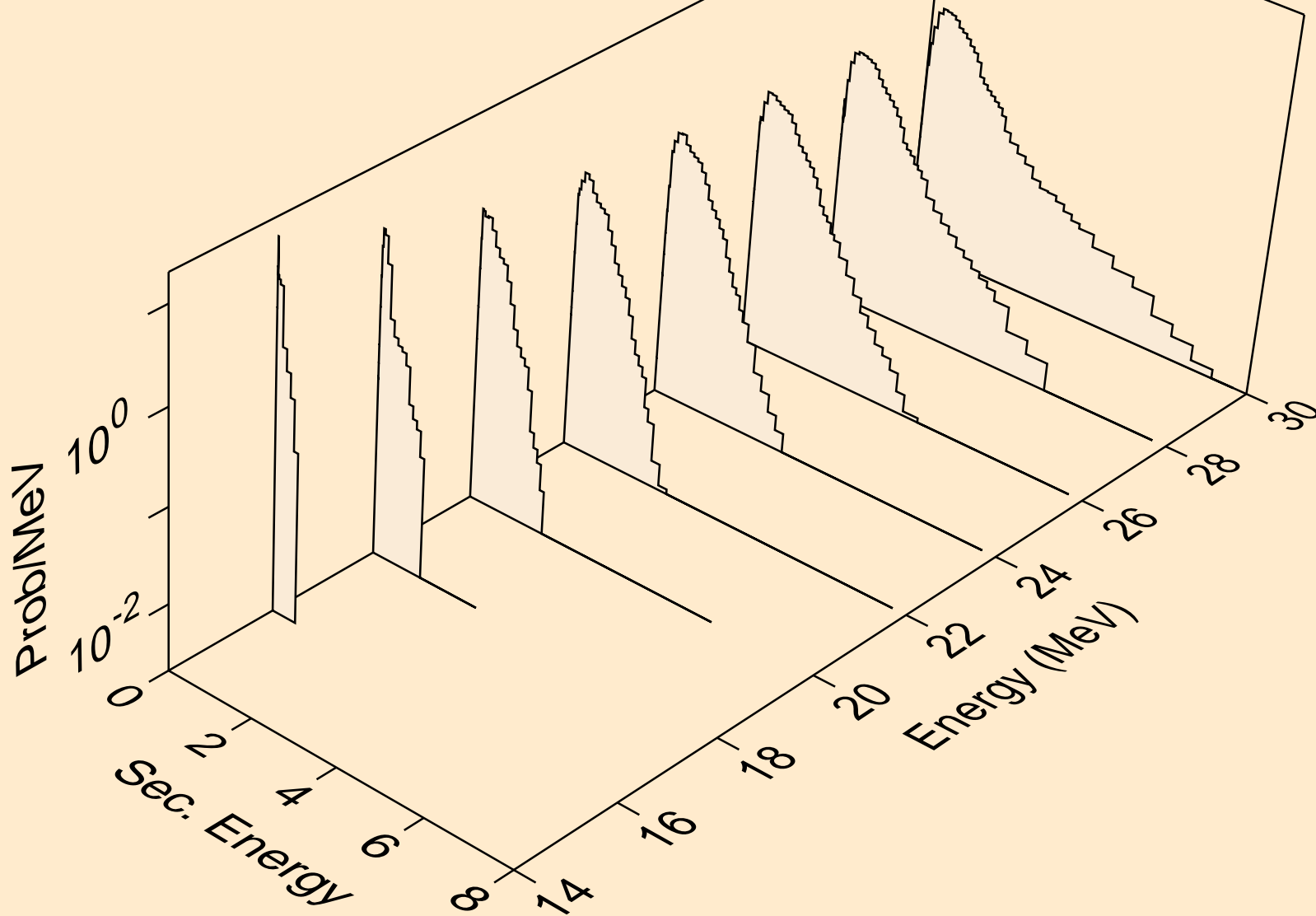
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



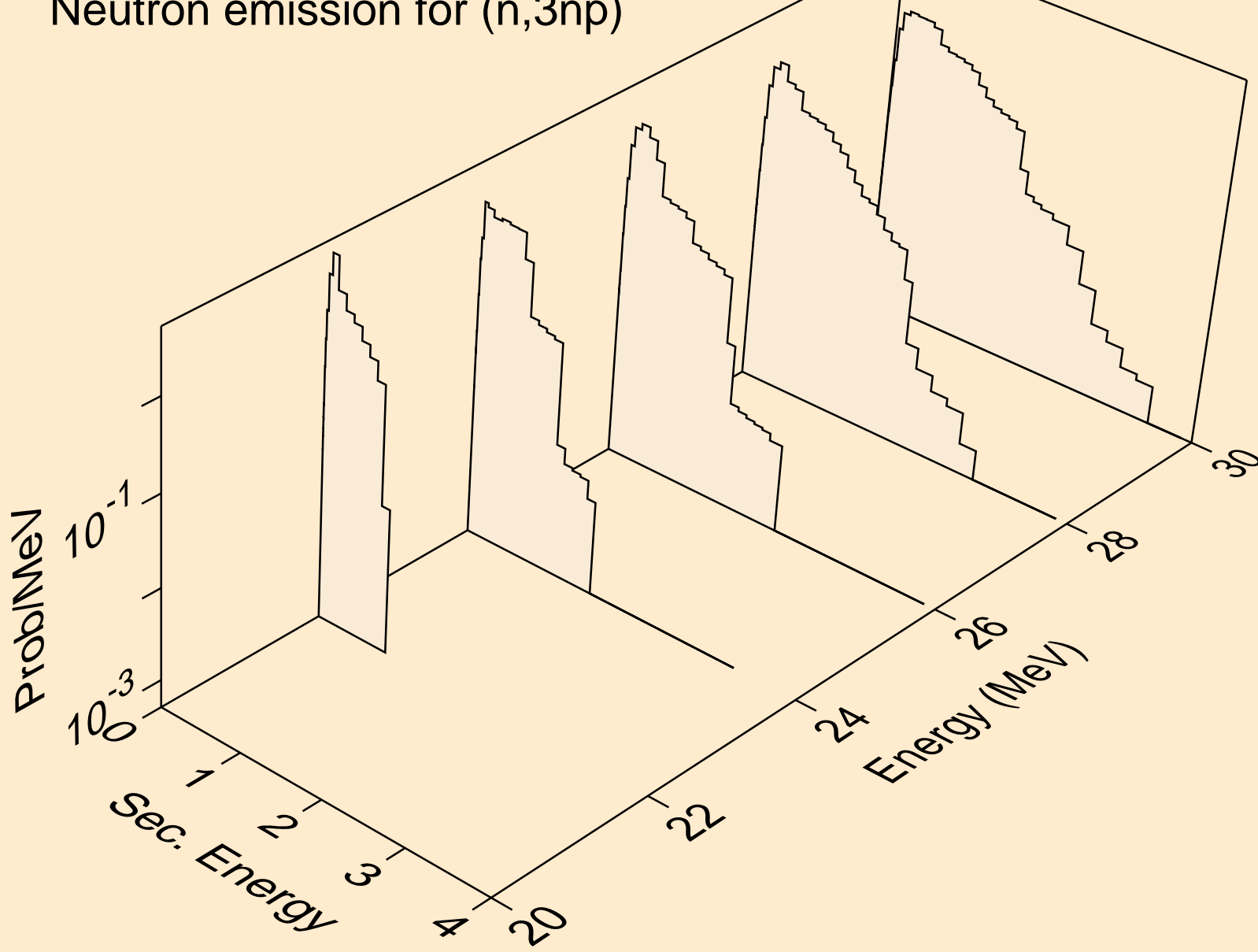
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

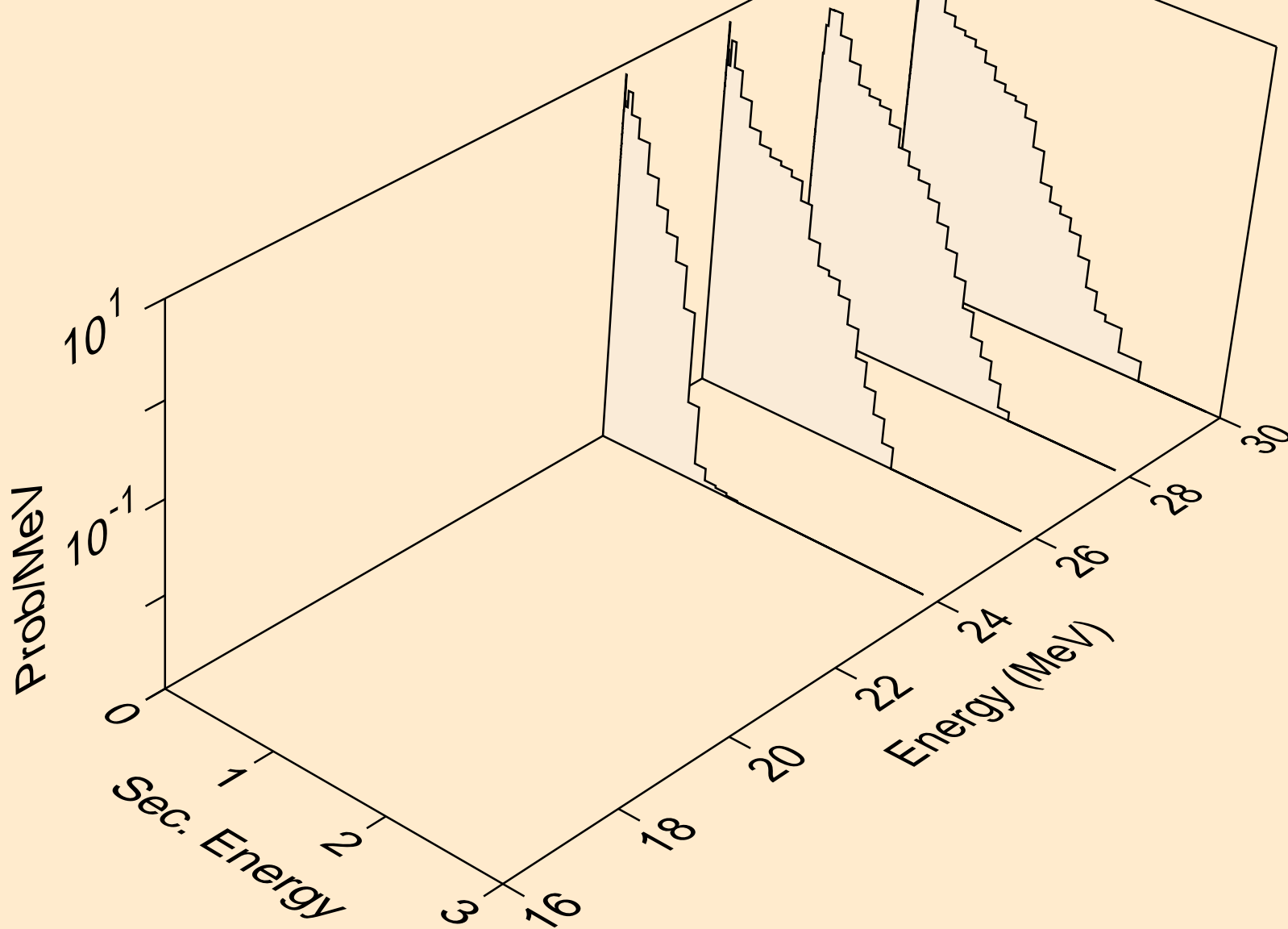


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)

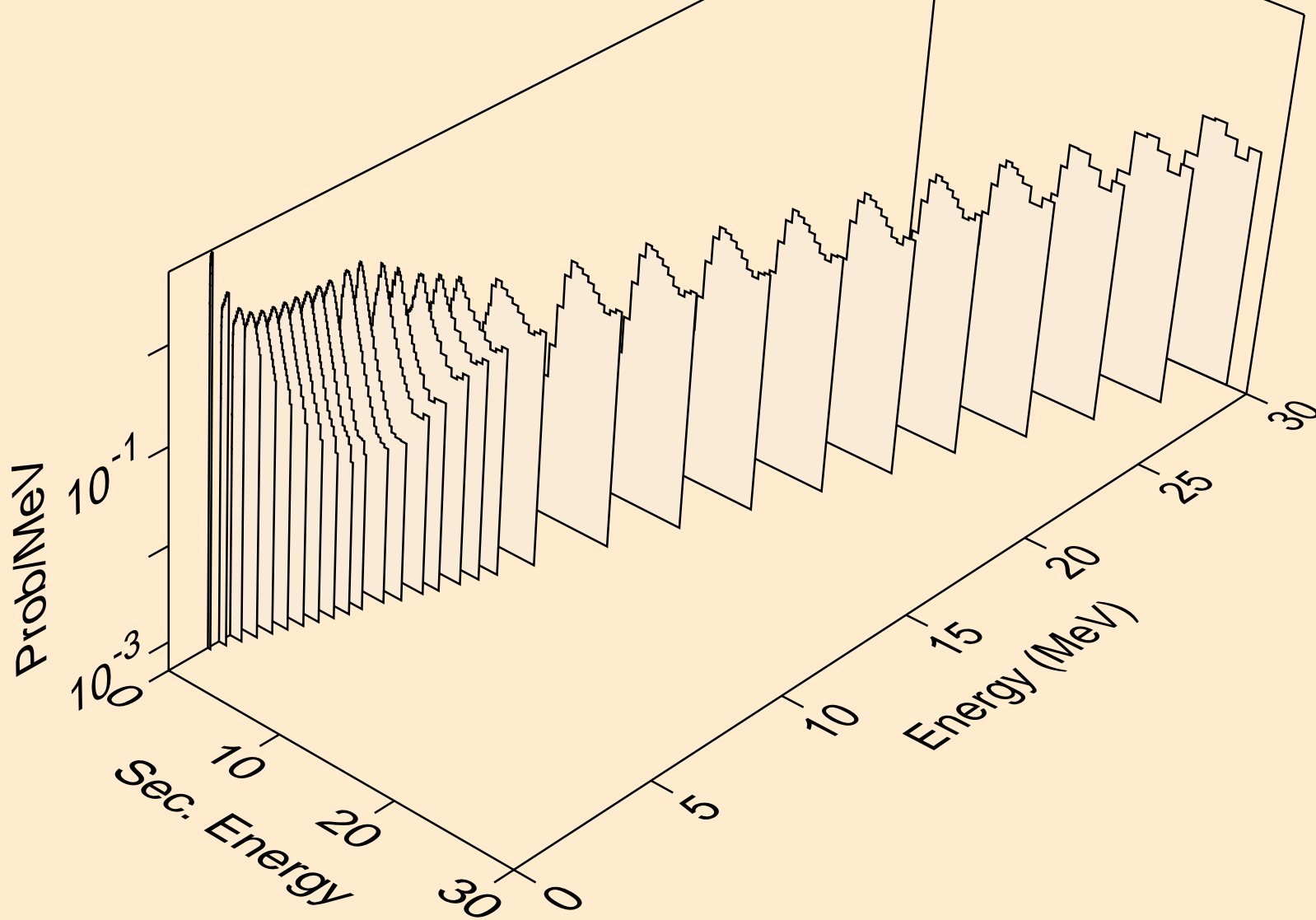




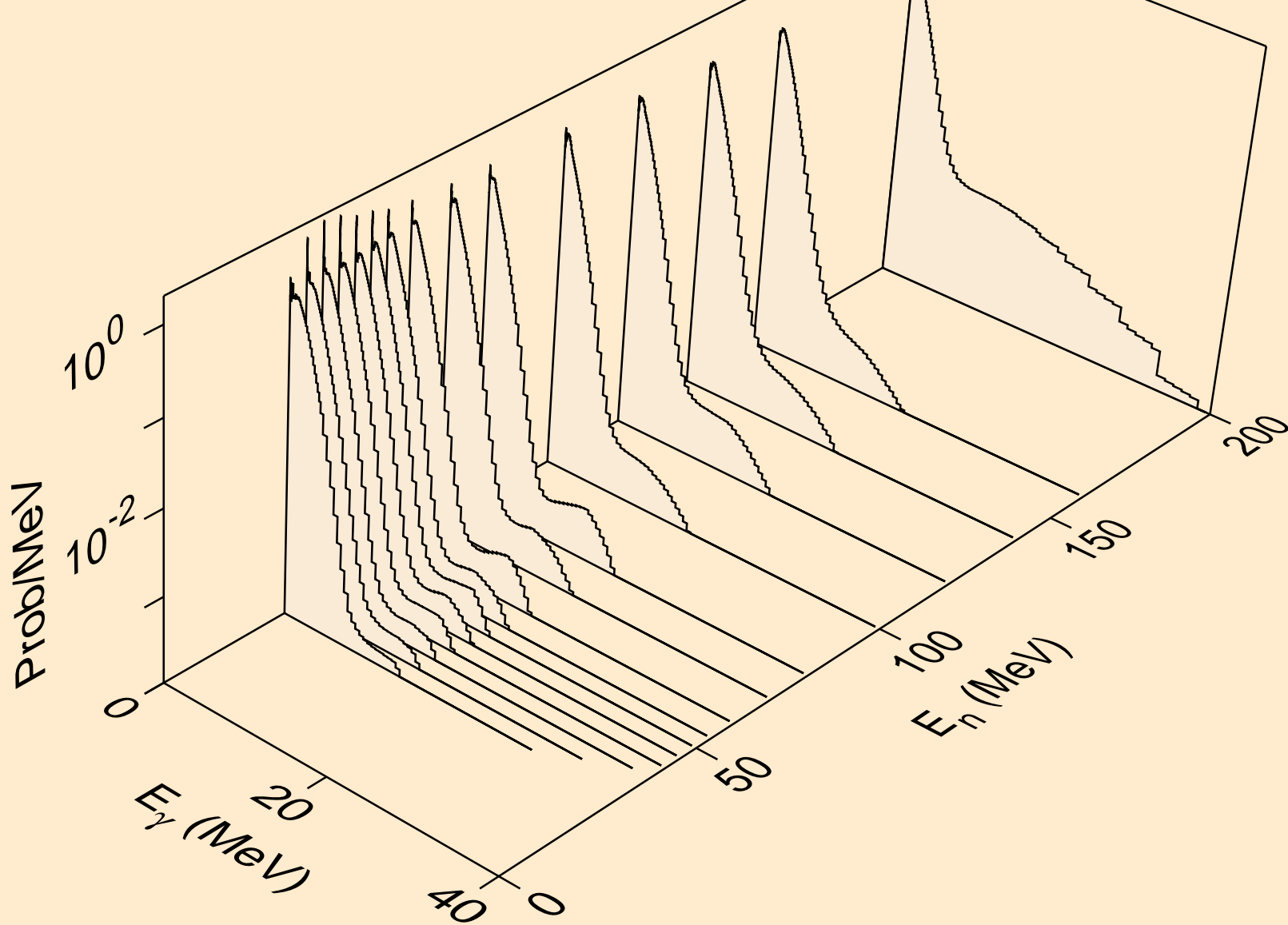
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Neutron emission for (n,2np)



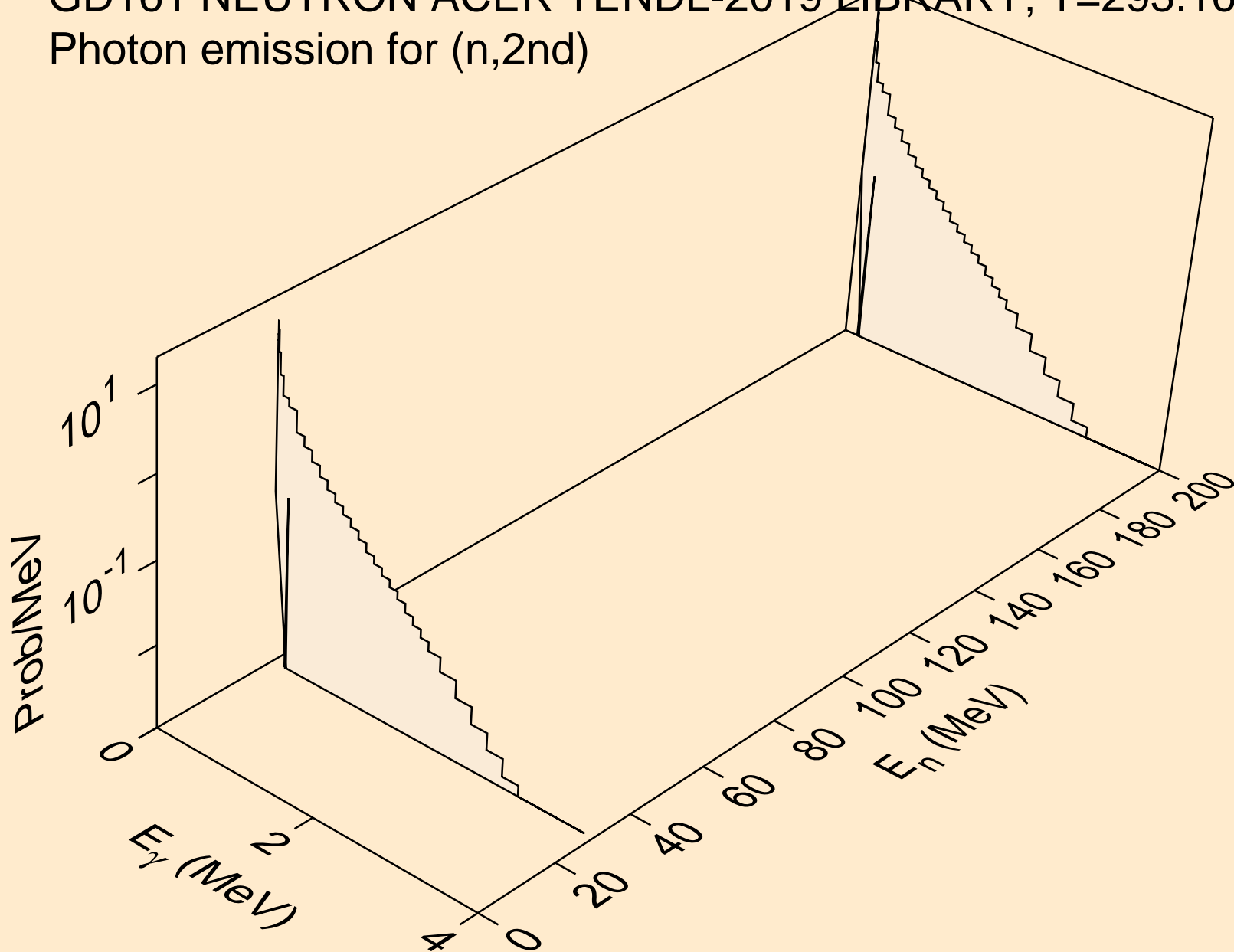
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Neutron emission for (n,n\*c)



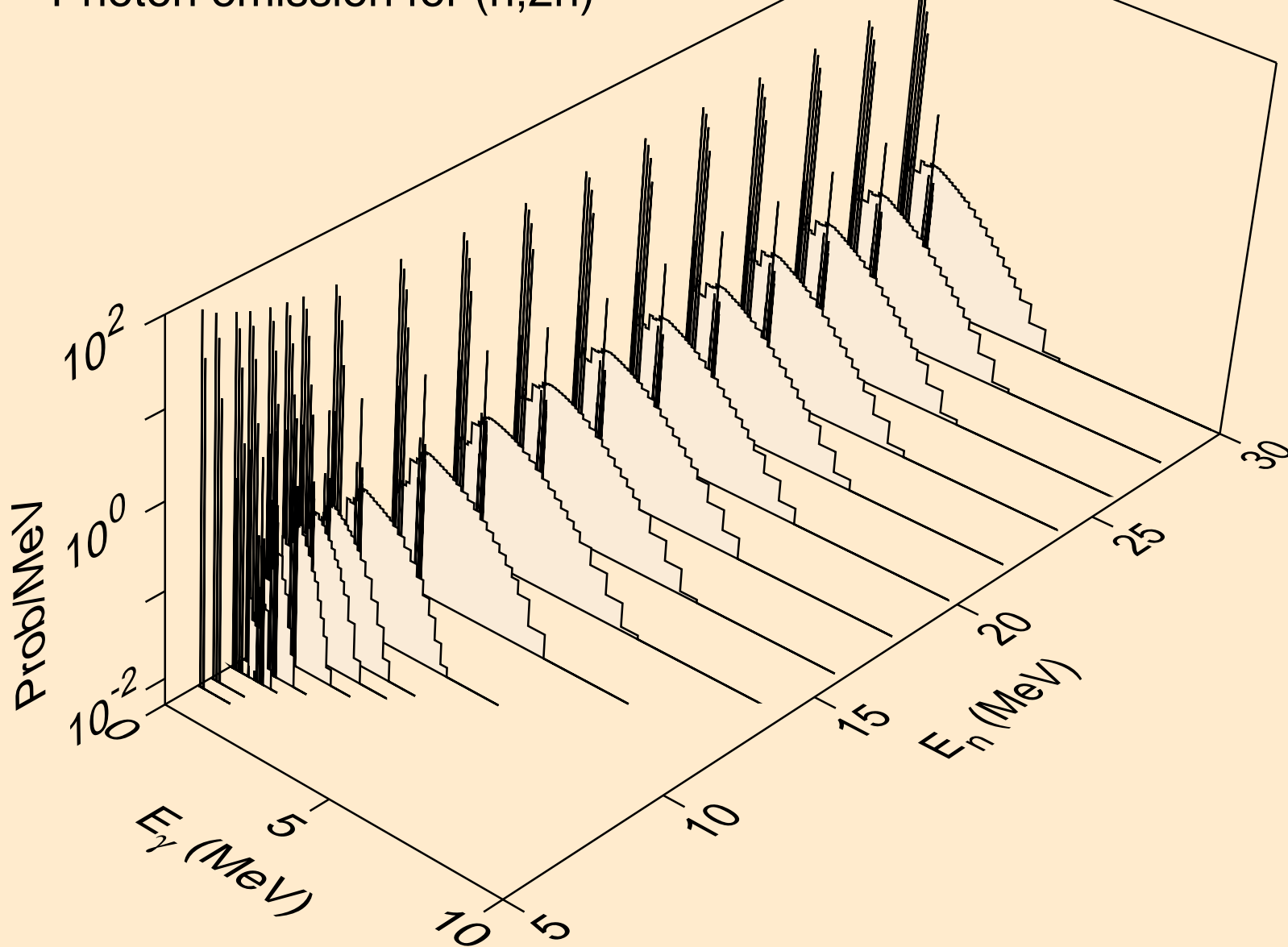
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



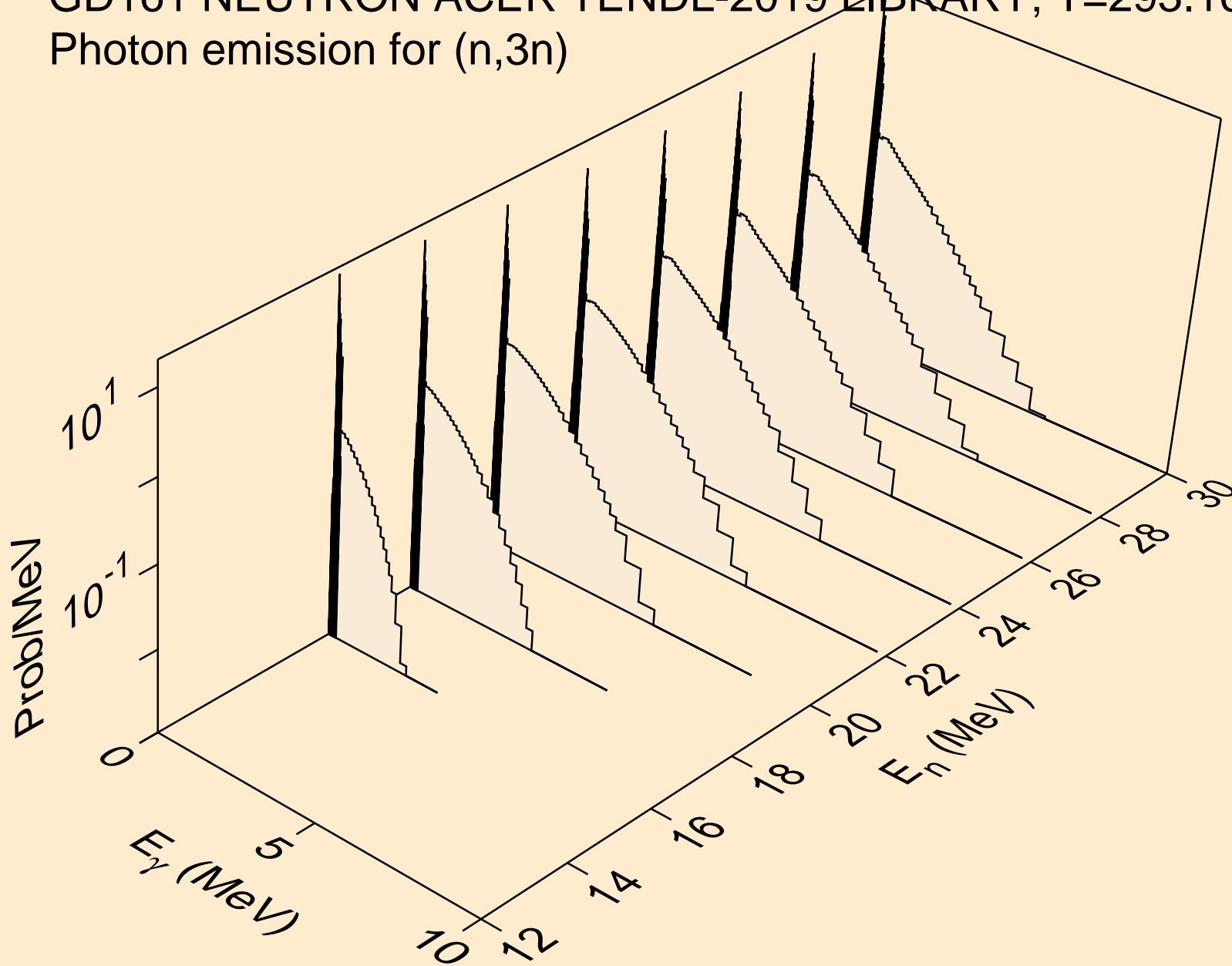
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Photon emission for (n,2nd)



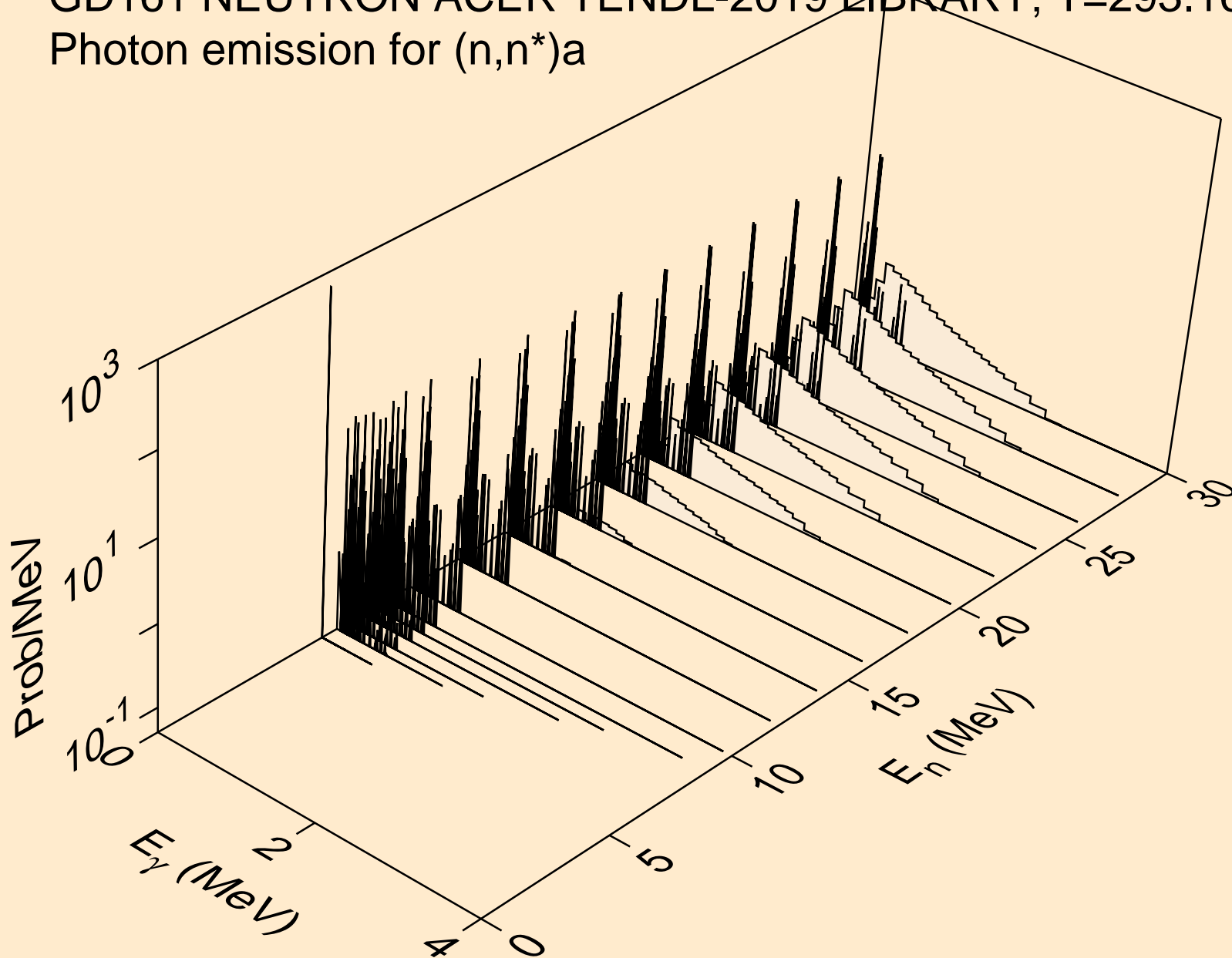
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



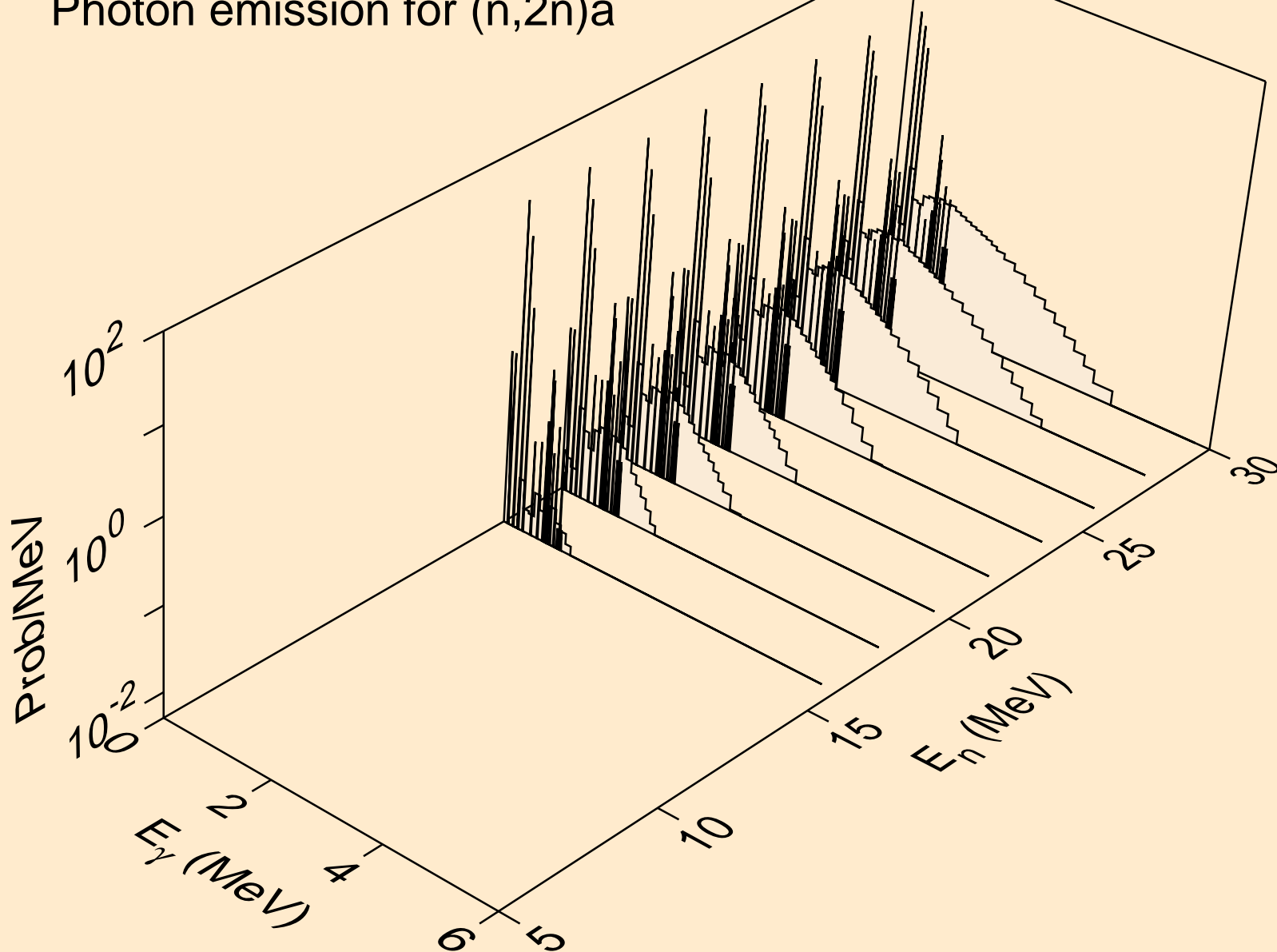
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a

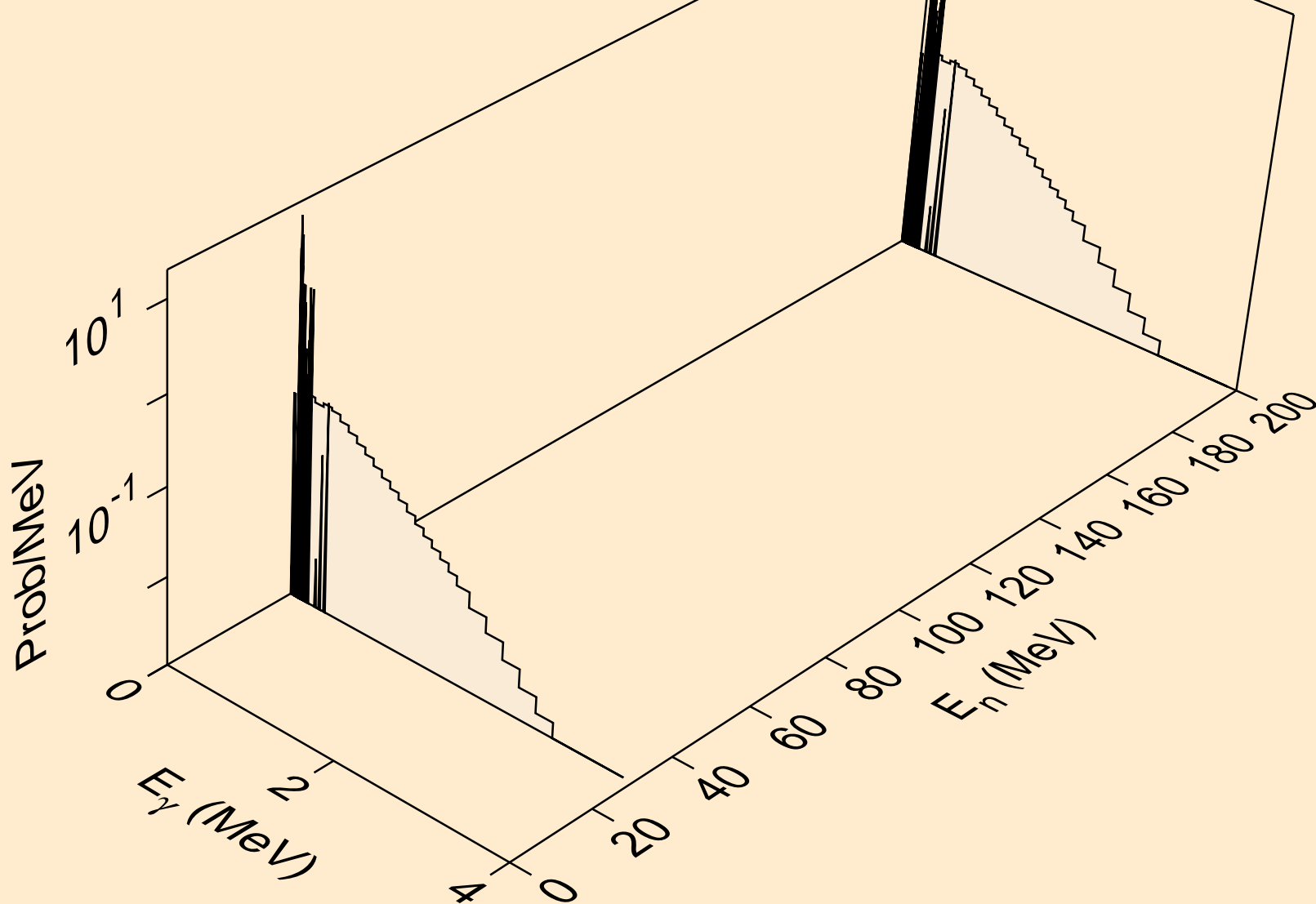


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)a

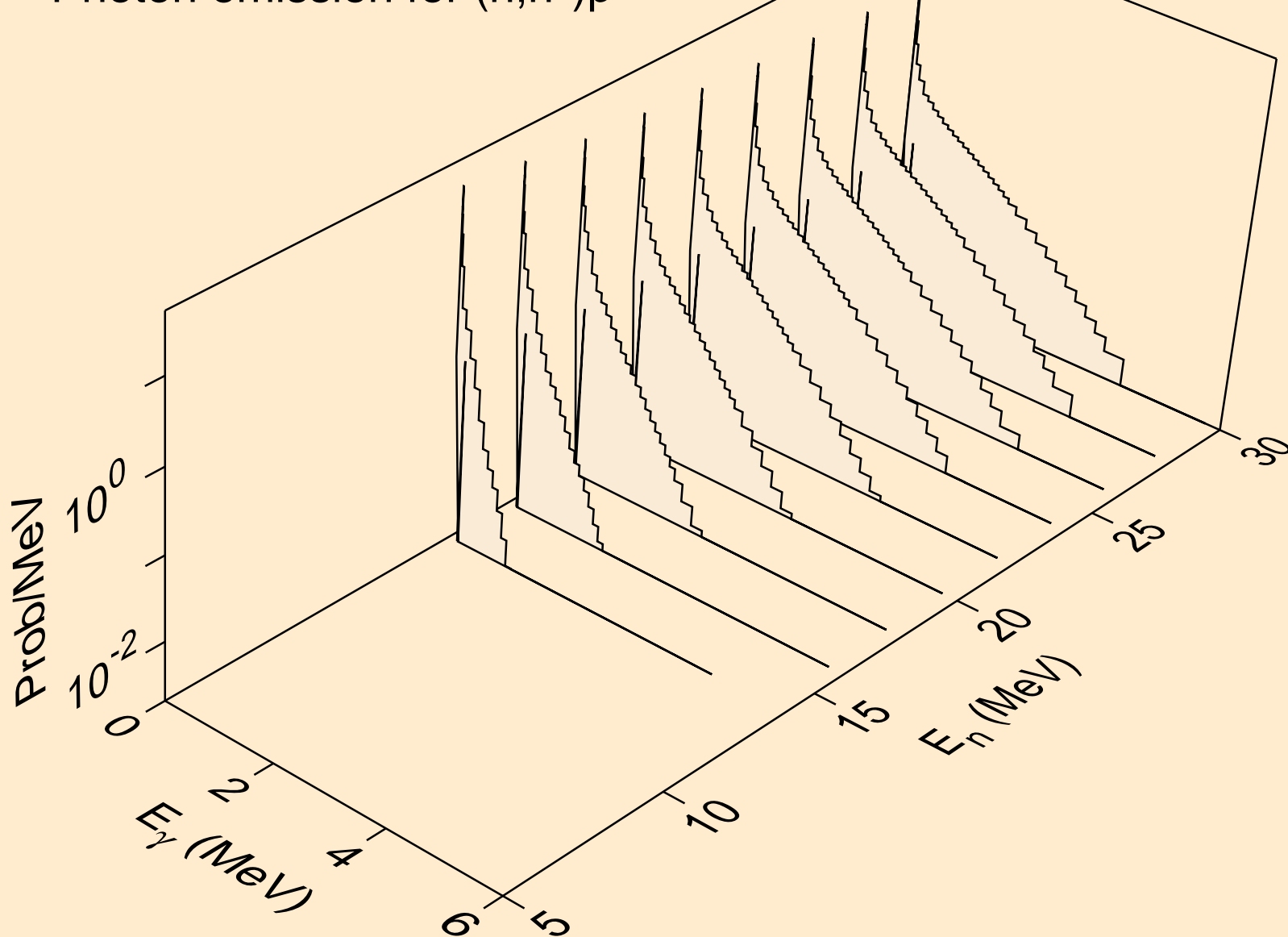




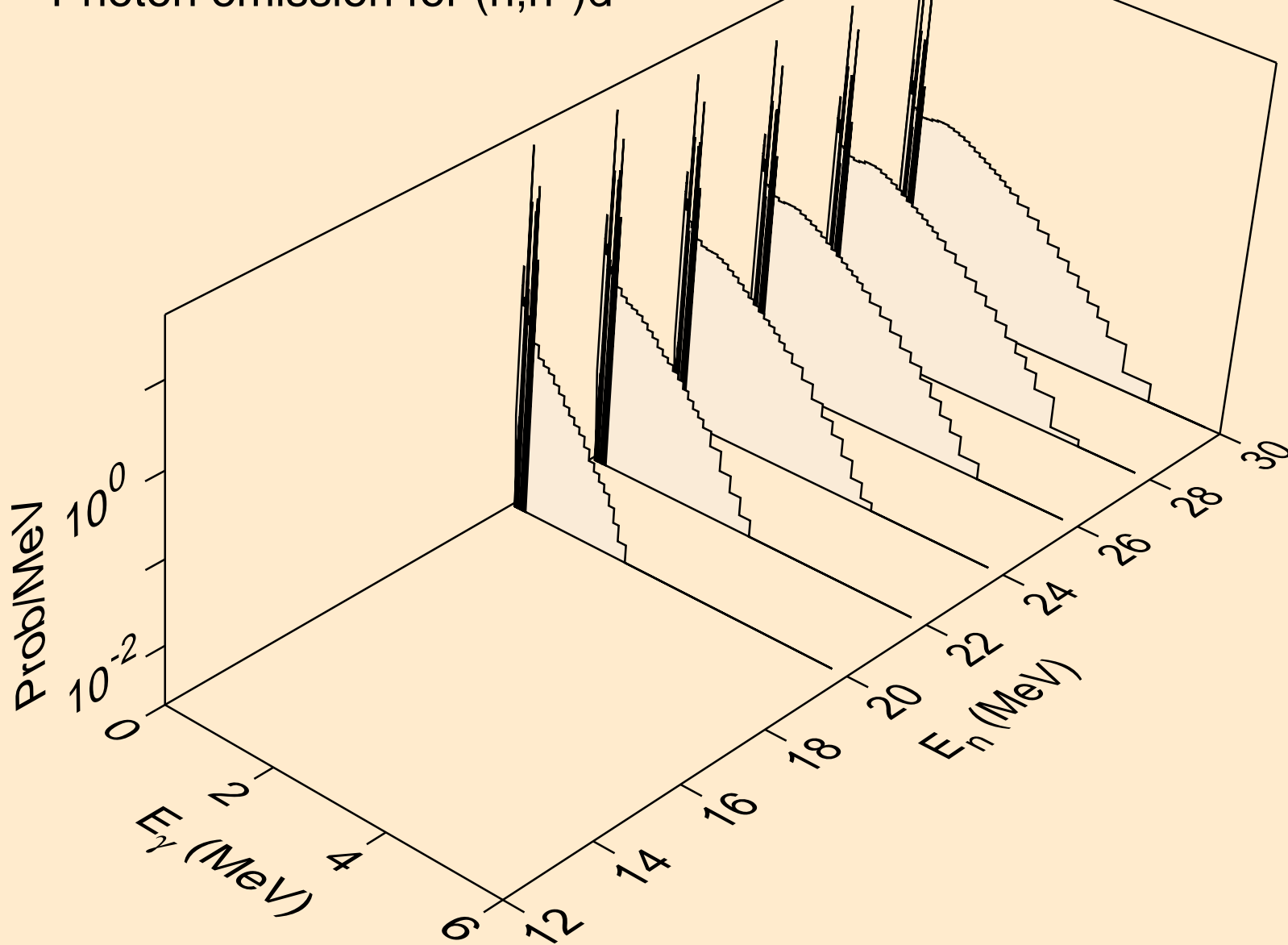
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Photon emission for (n,3n)a



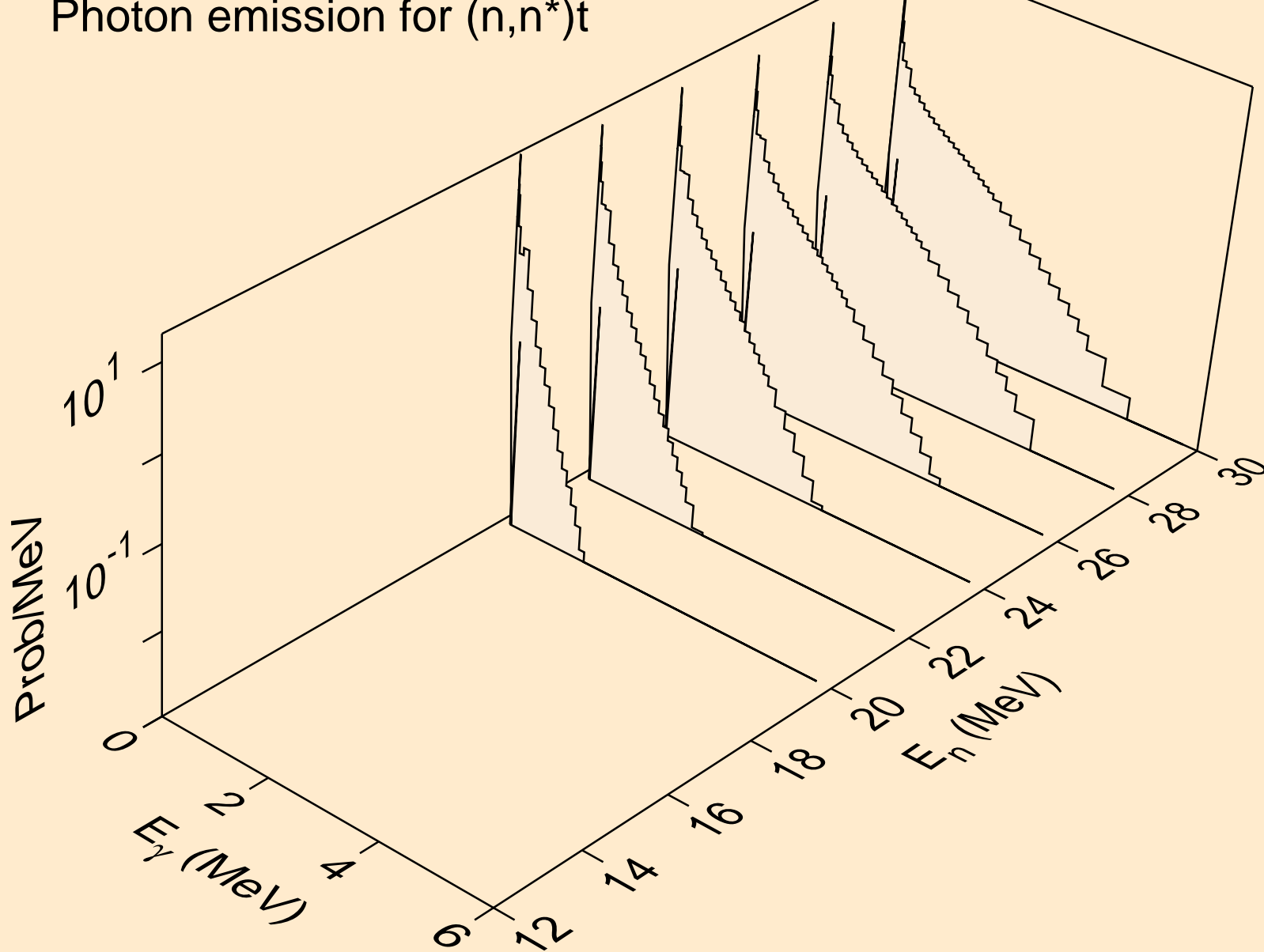
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Photon emission for (n,n\*)p



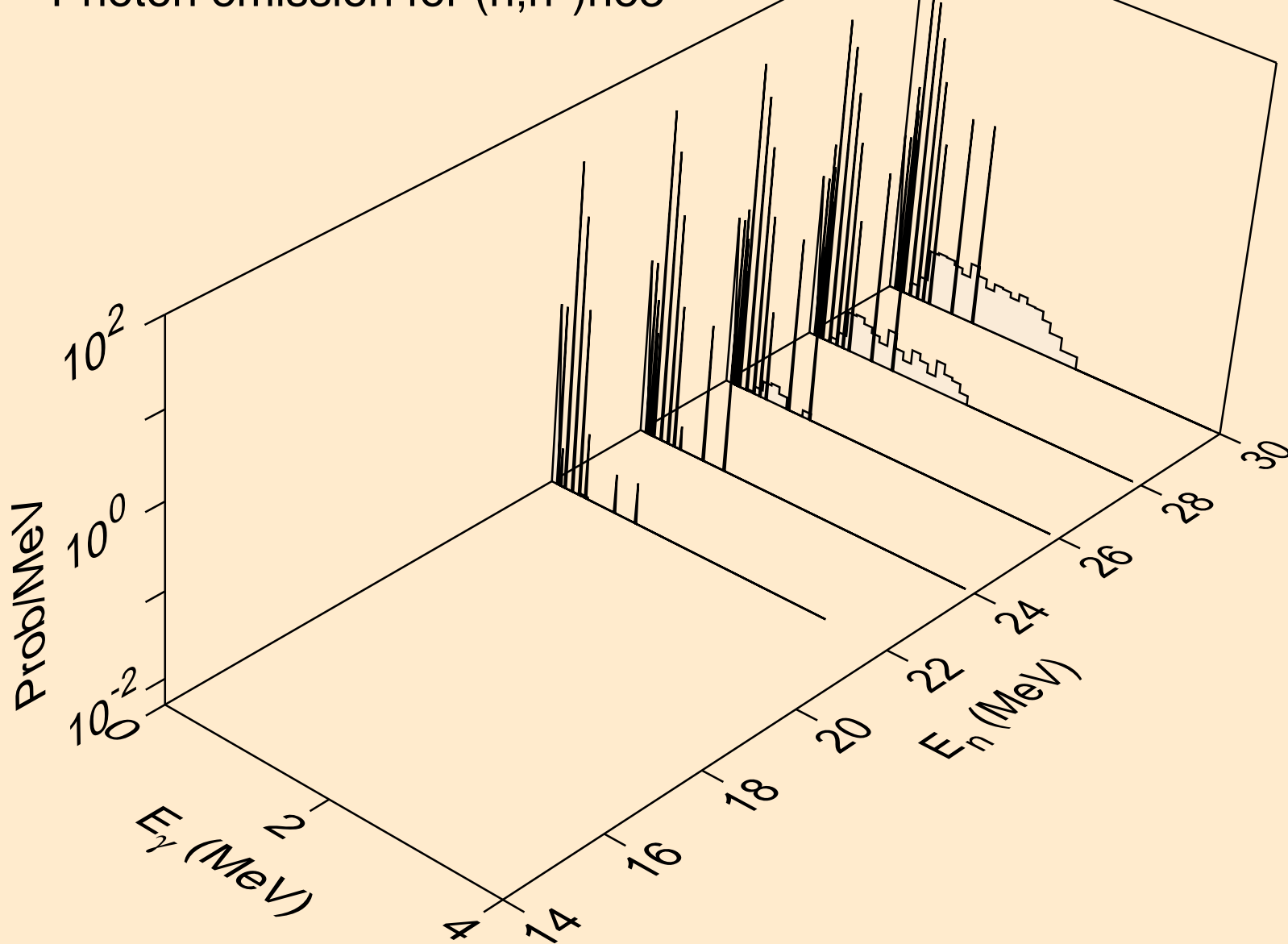
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Photon emission for (n,n\*)d



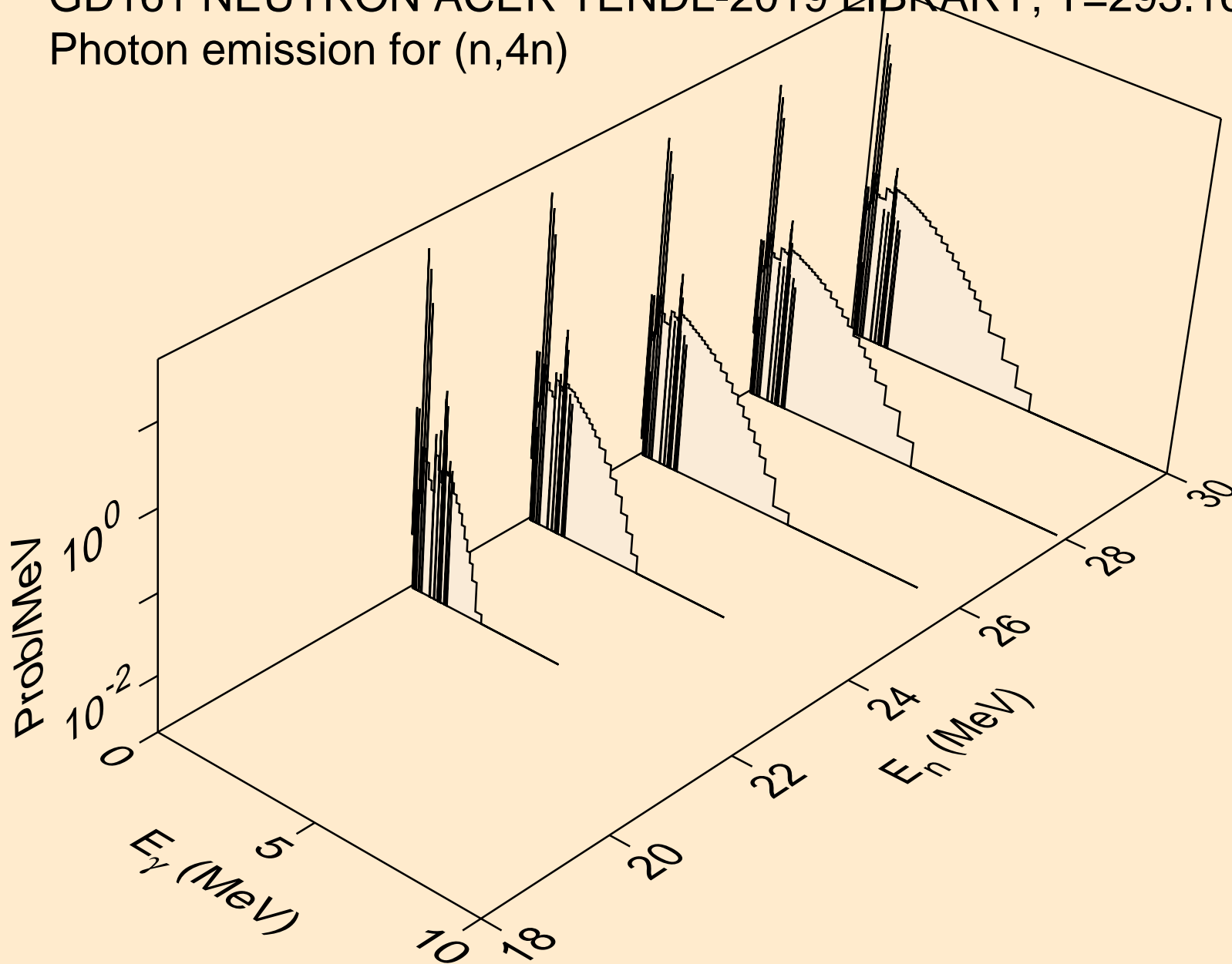
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Photon emission for (n,n\*)t



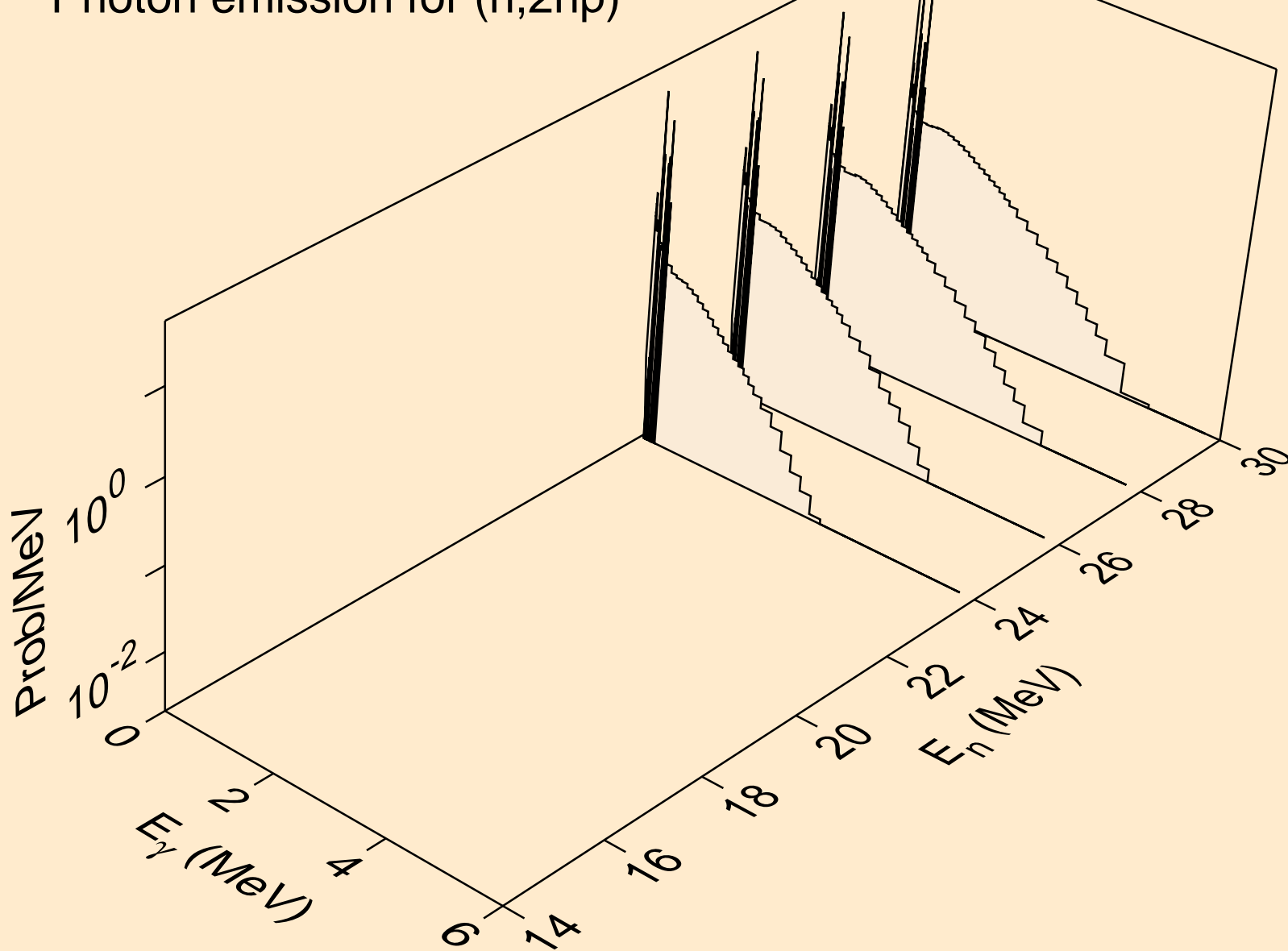
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Photon emission for (n,n\*)he3



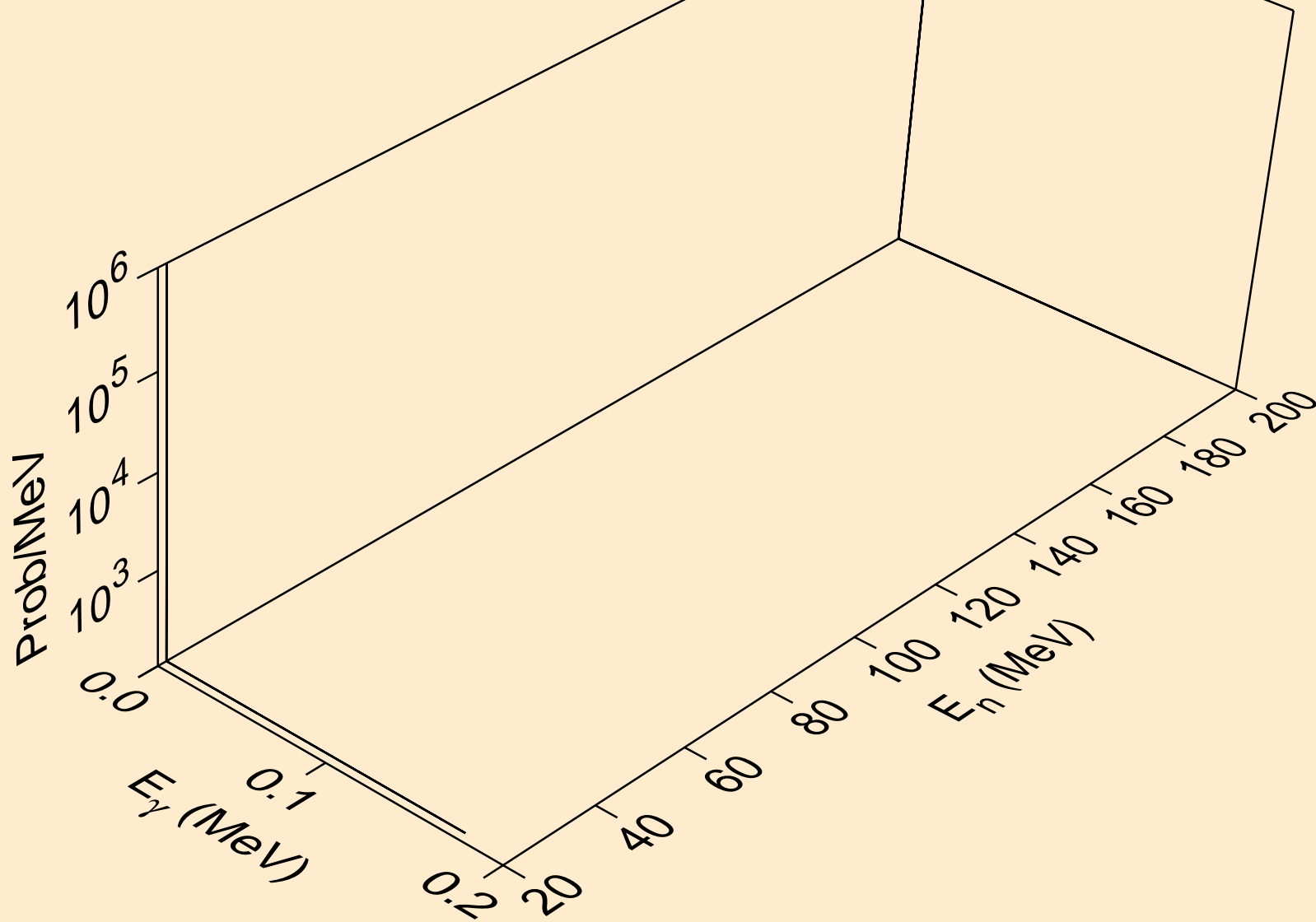
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,4n)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)

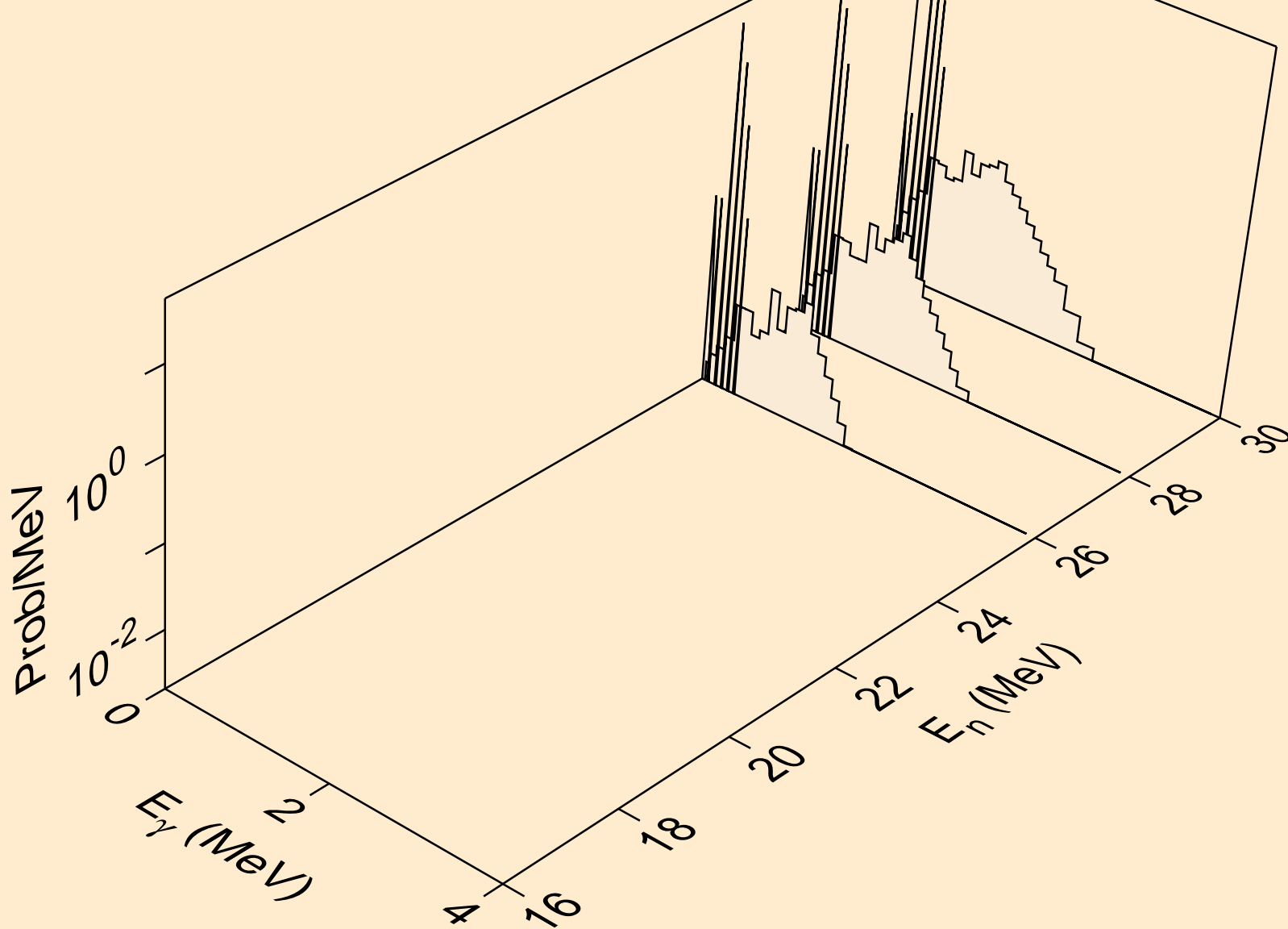


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Photon emission for (n,3np)

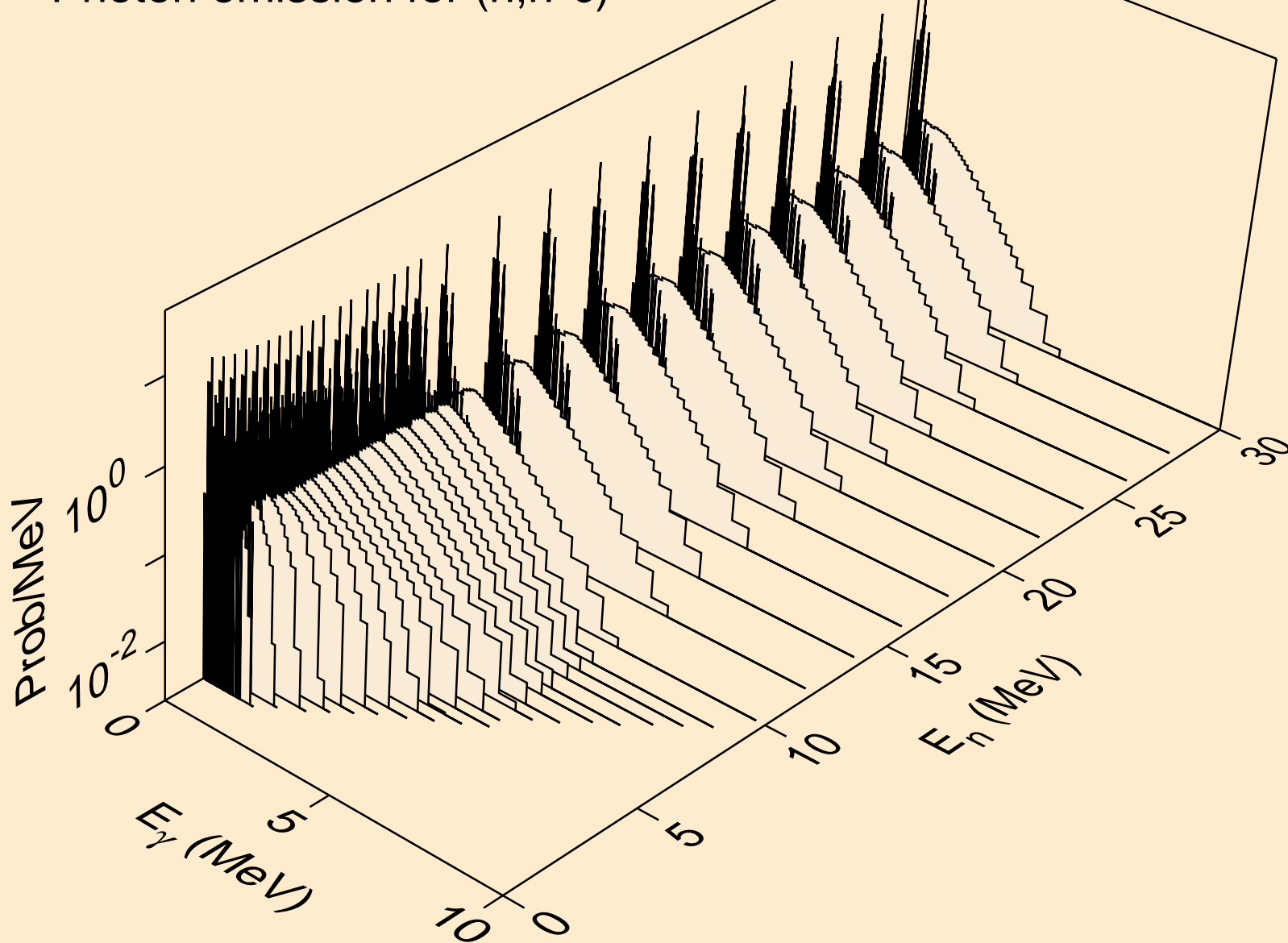




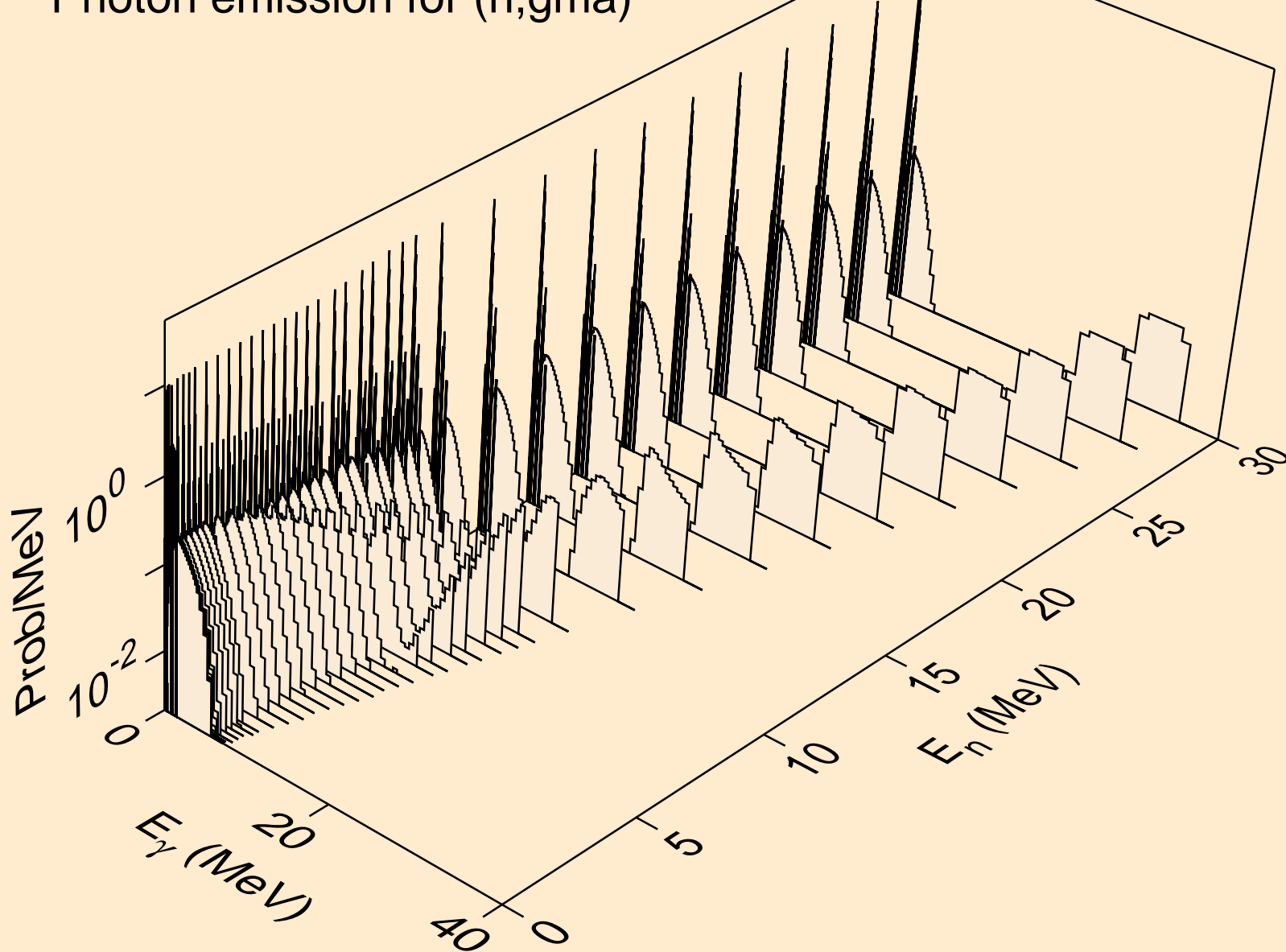
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Photon emission for (n,2np)



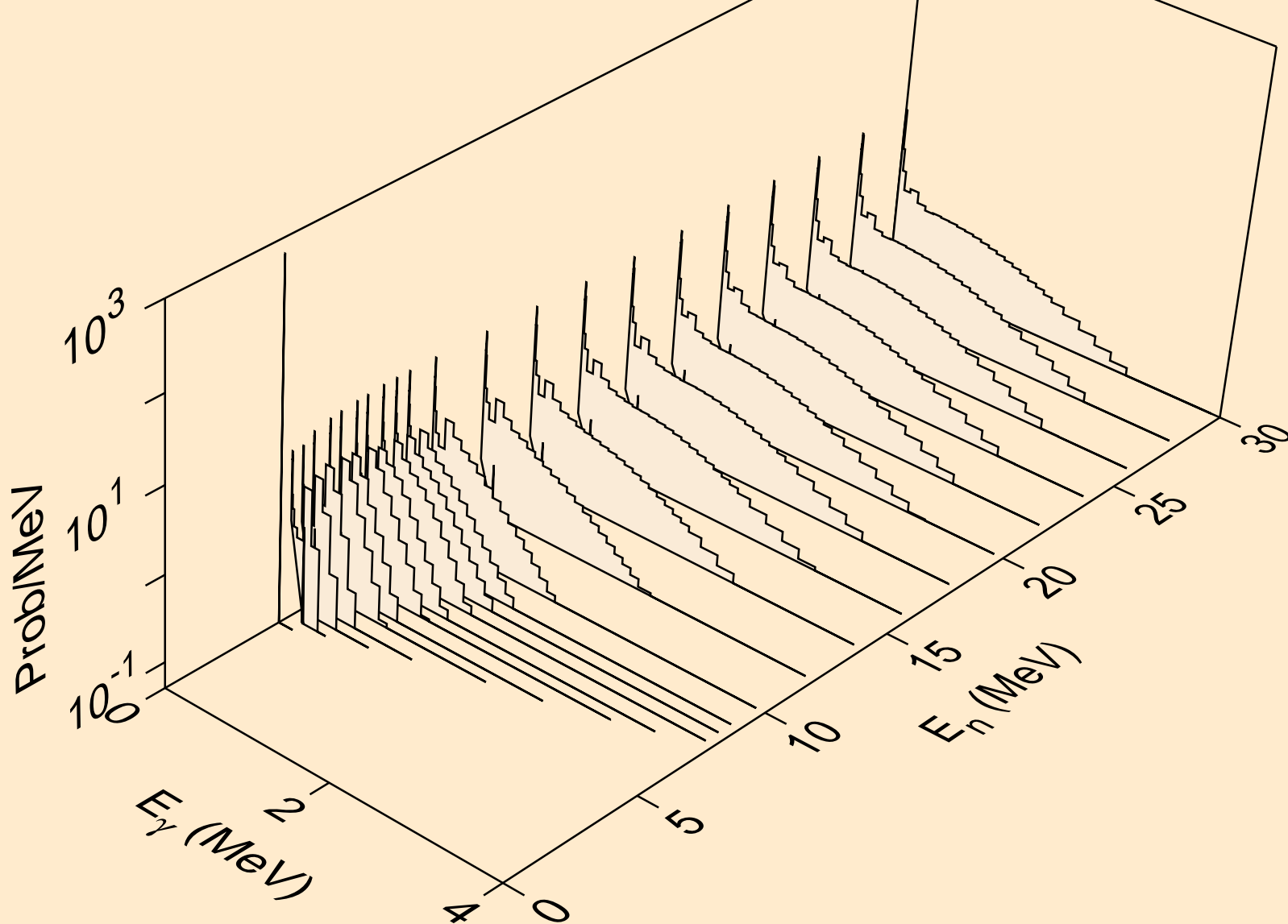
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Photon emission for (n,n\*c)



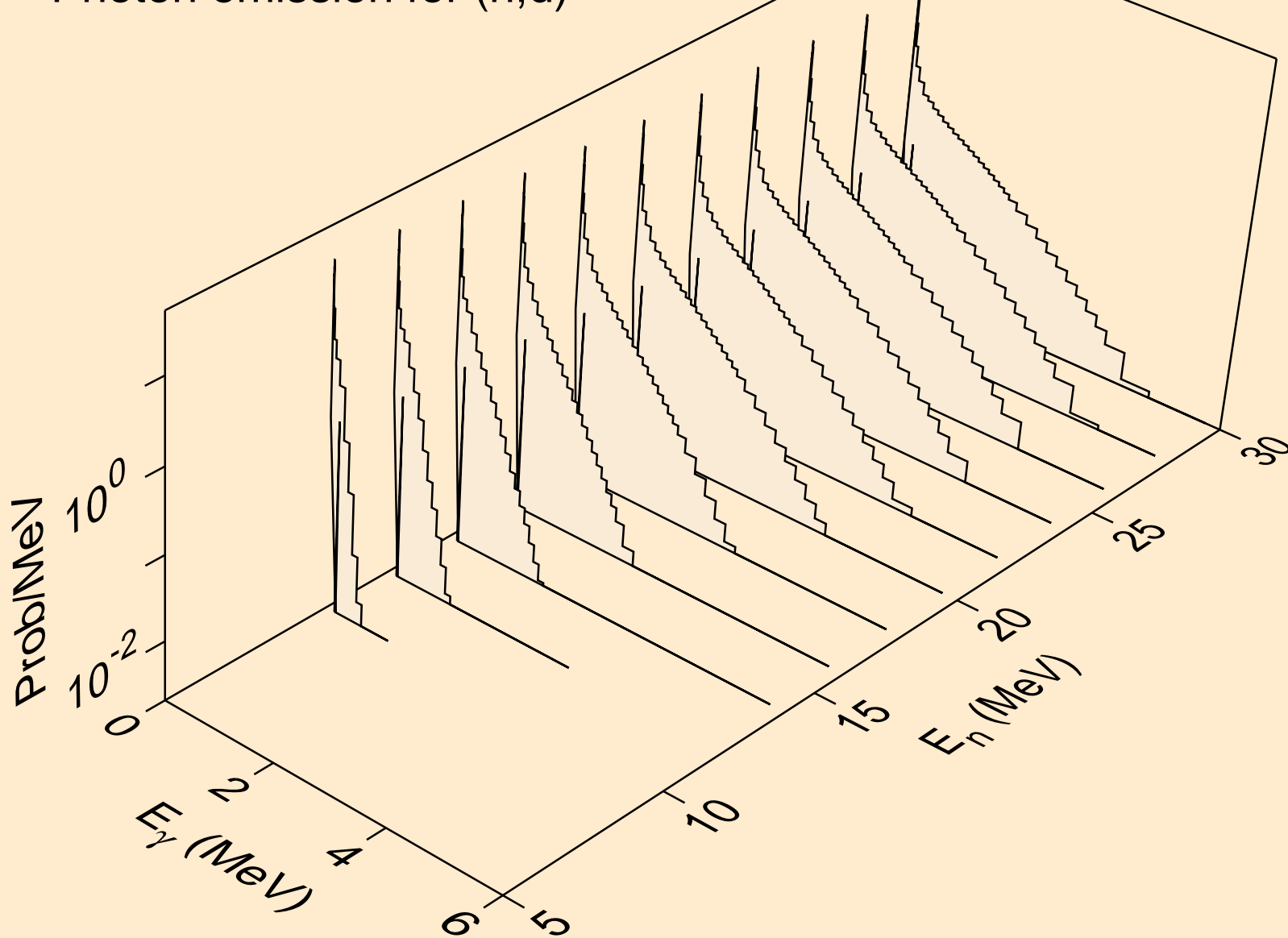
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Photon emission for (n,gma)



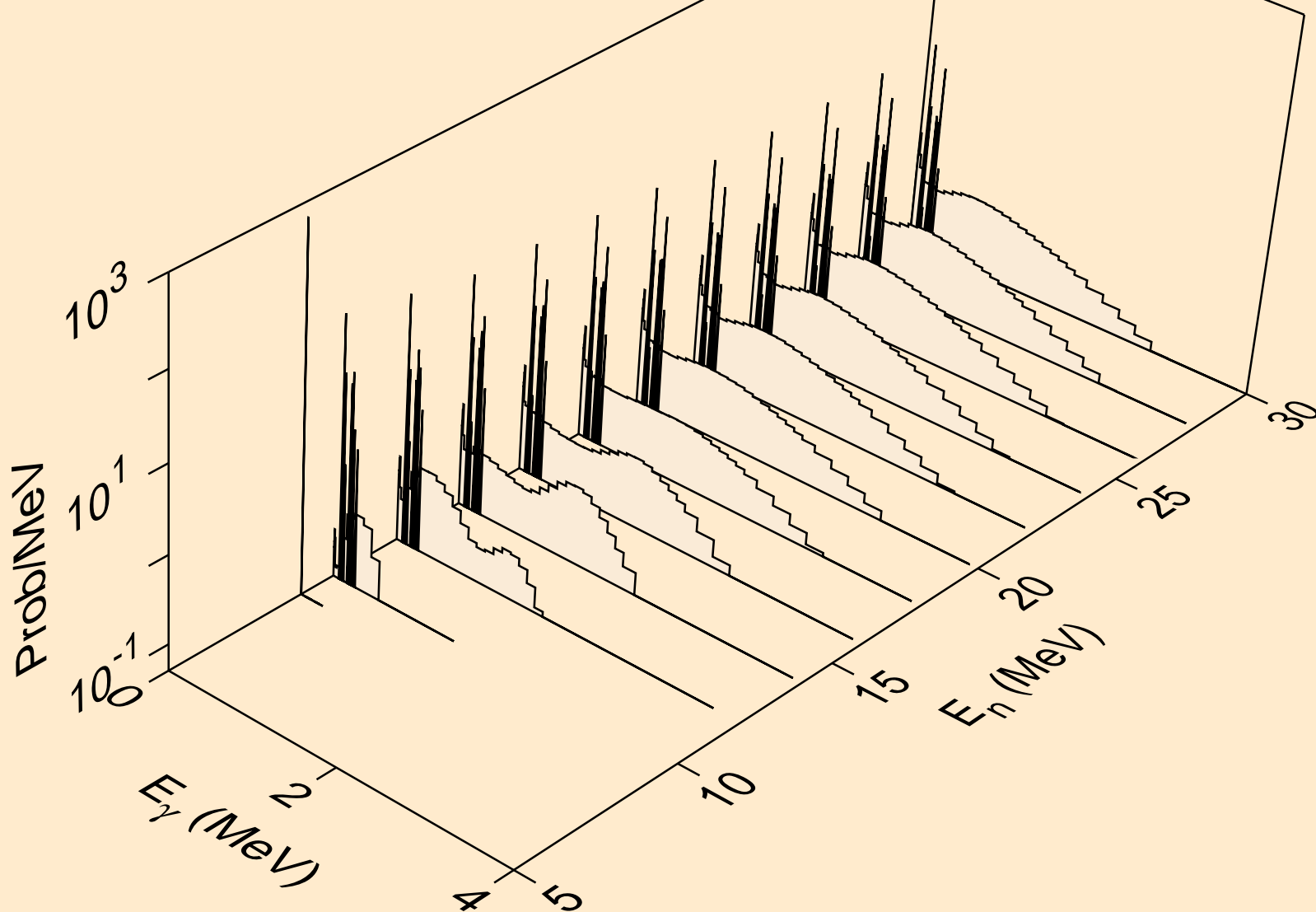
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Photon emission for (n,p)



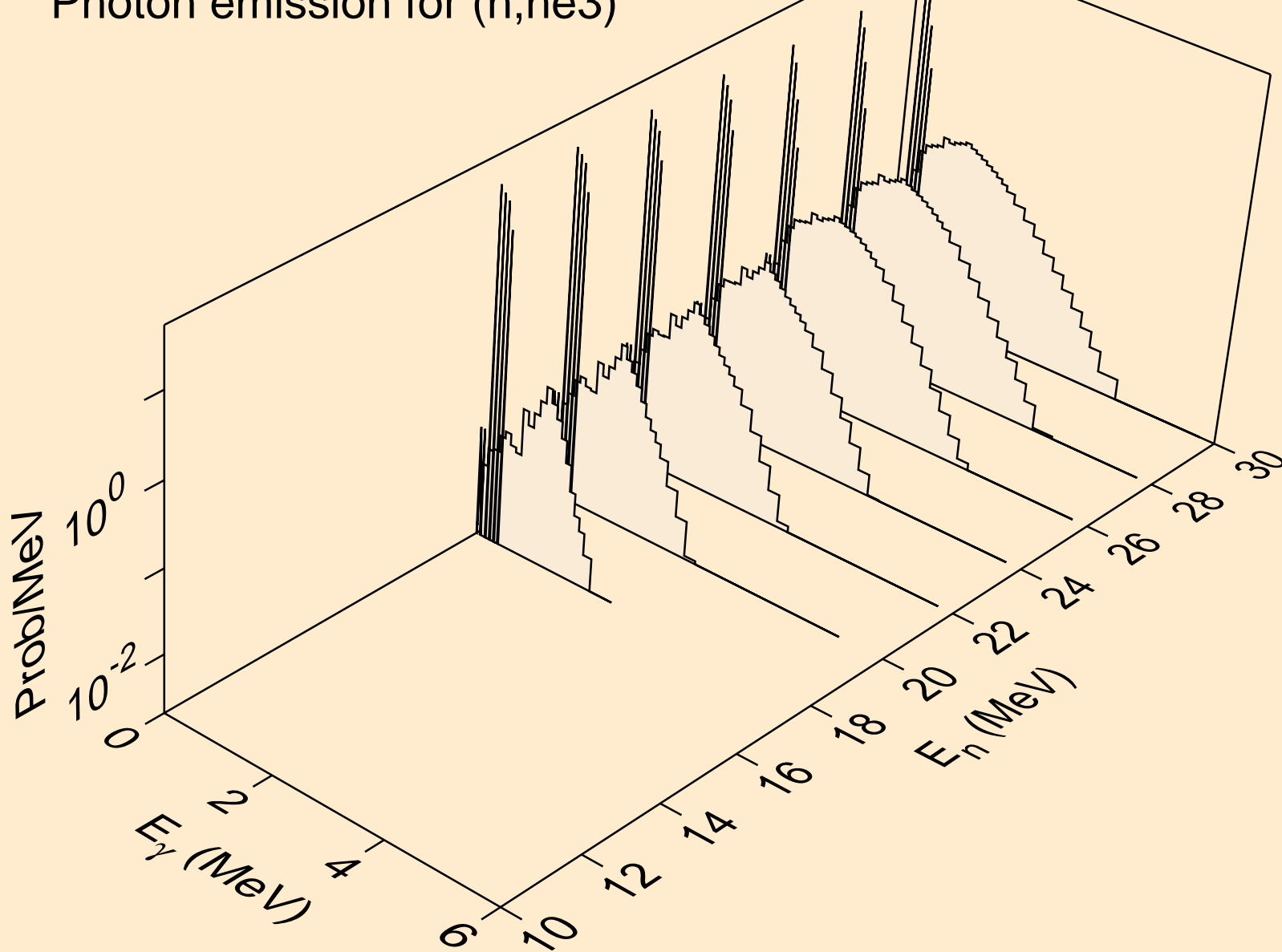
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Photon emission for (n,d)



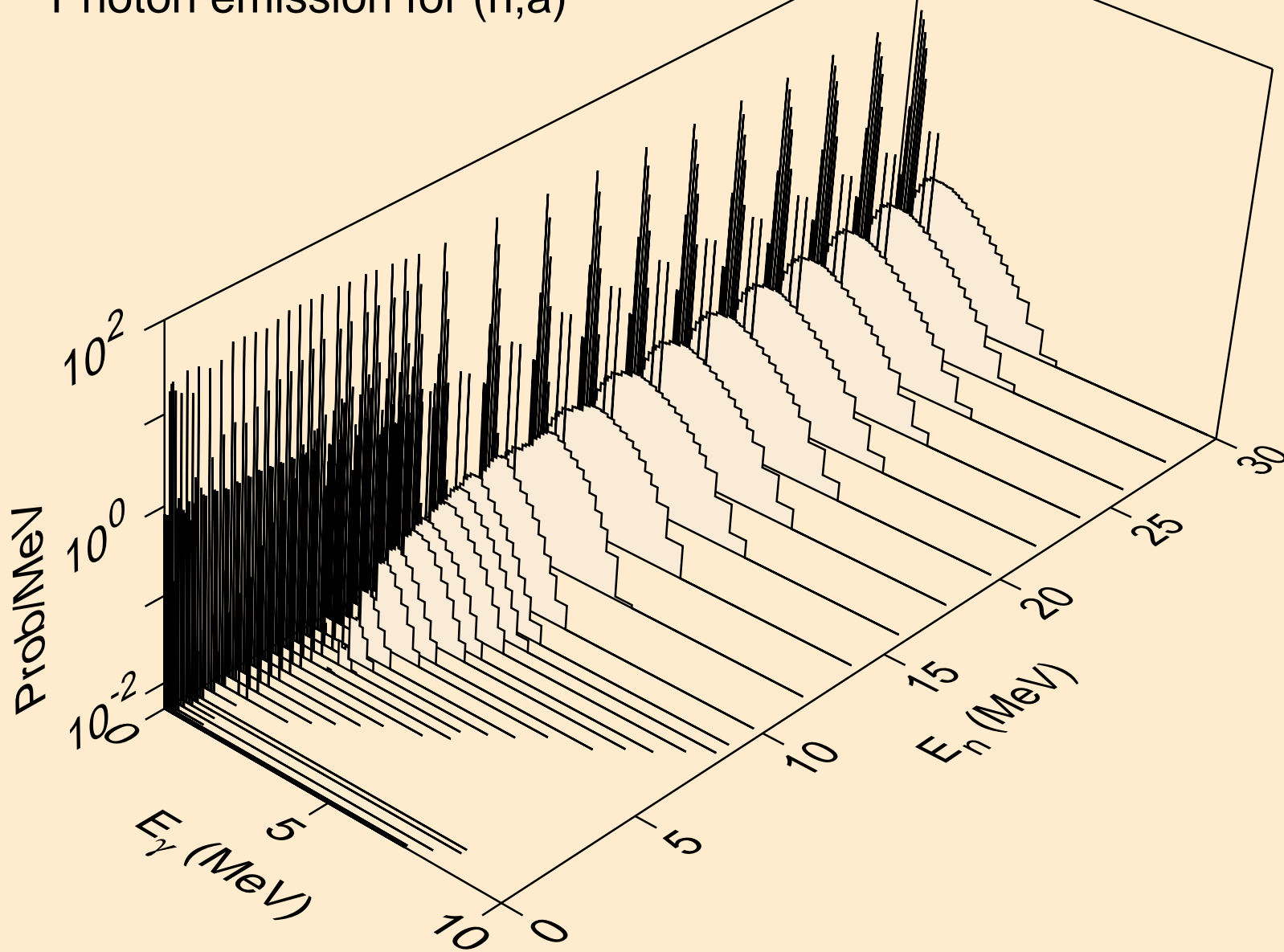
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)

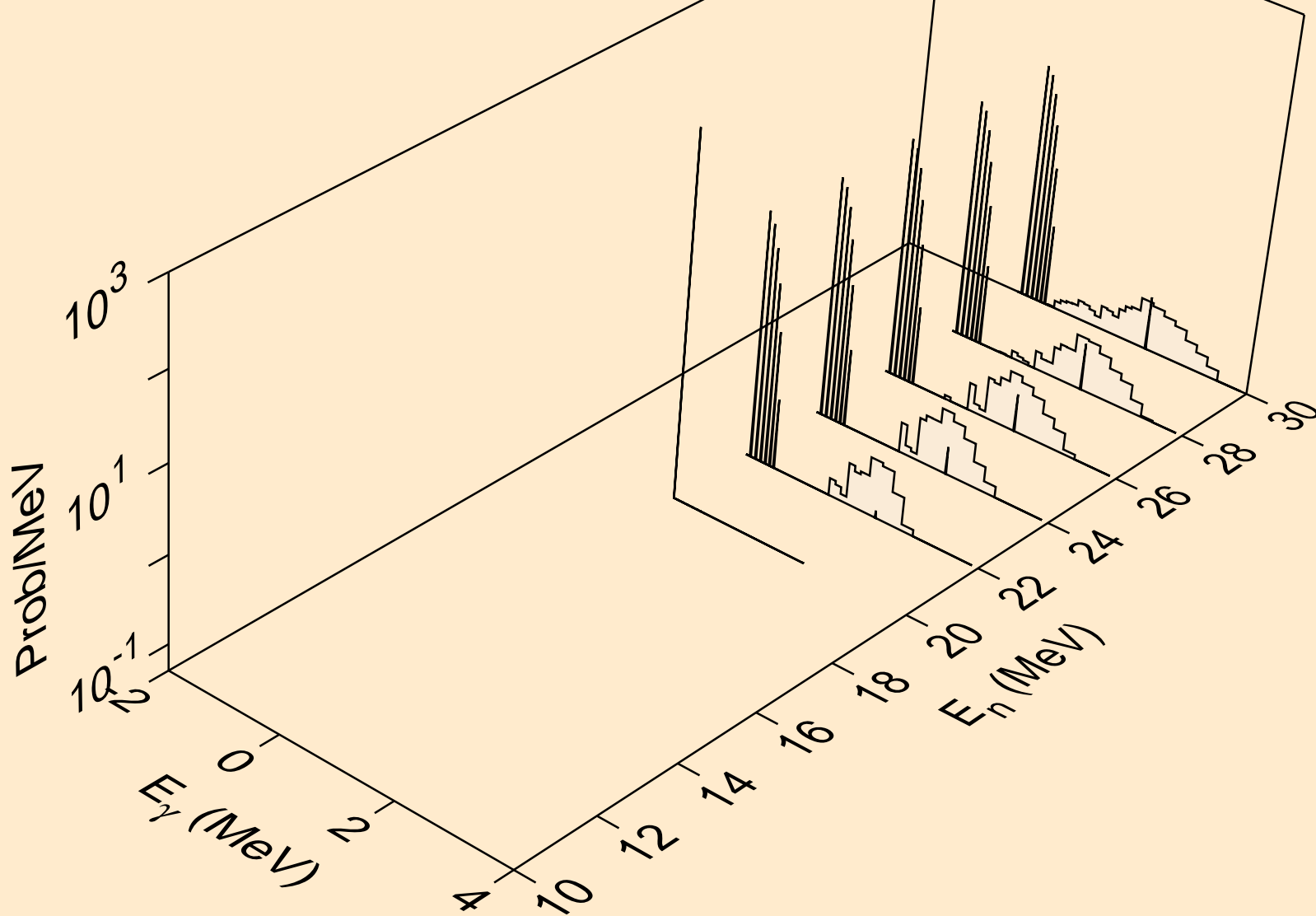


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)

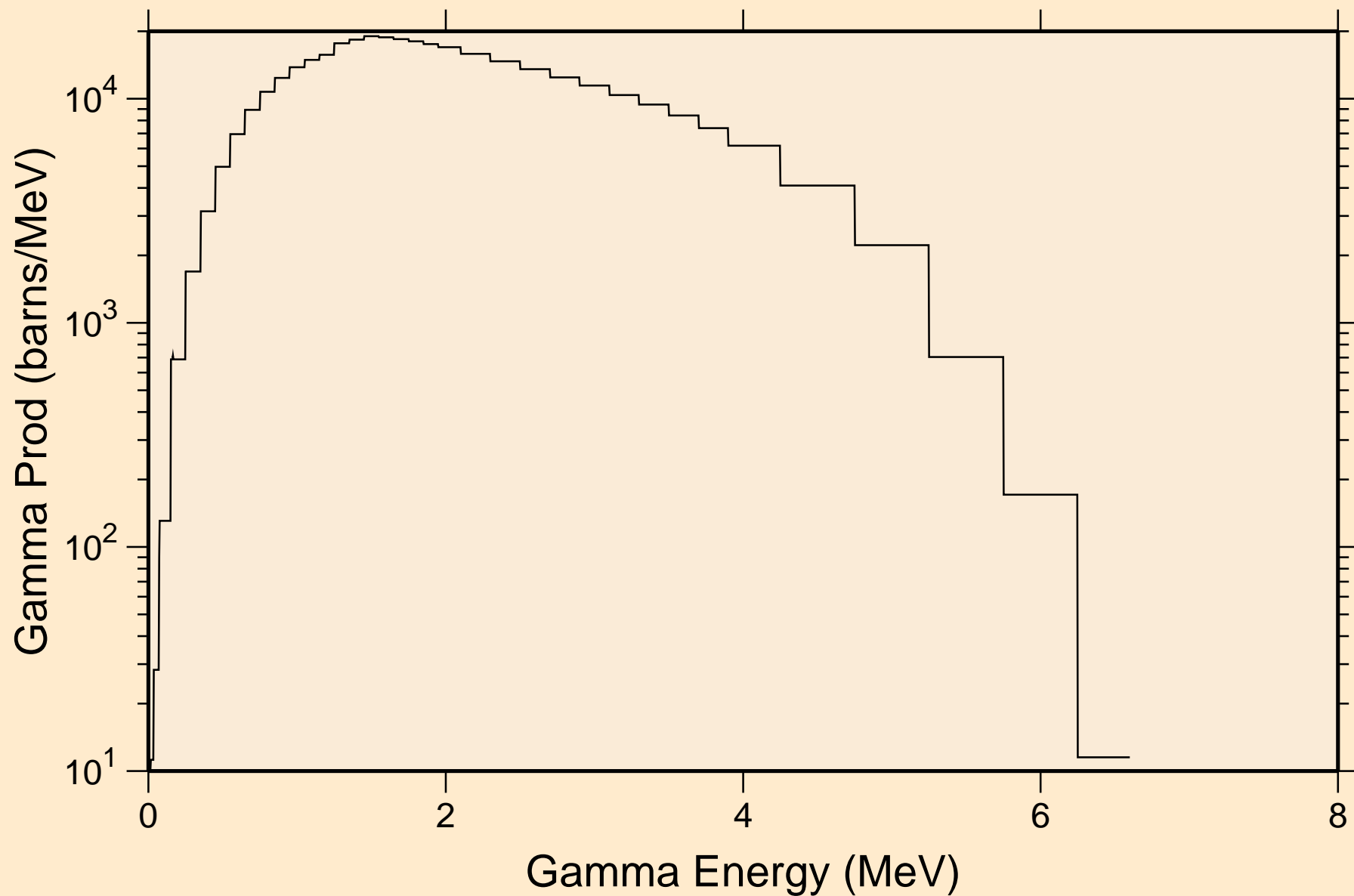




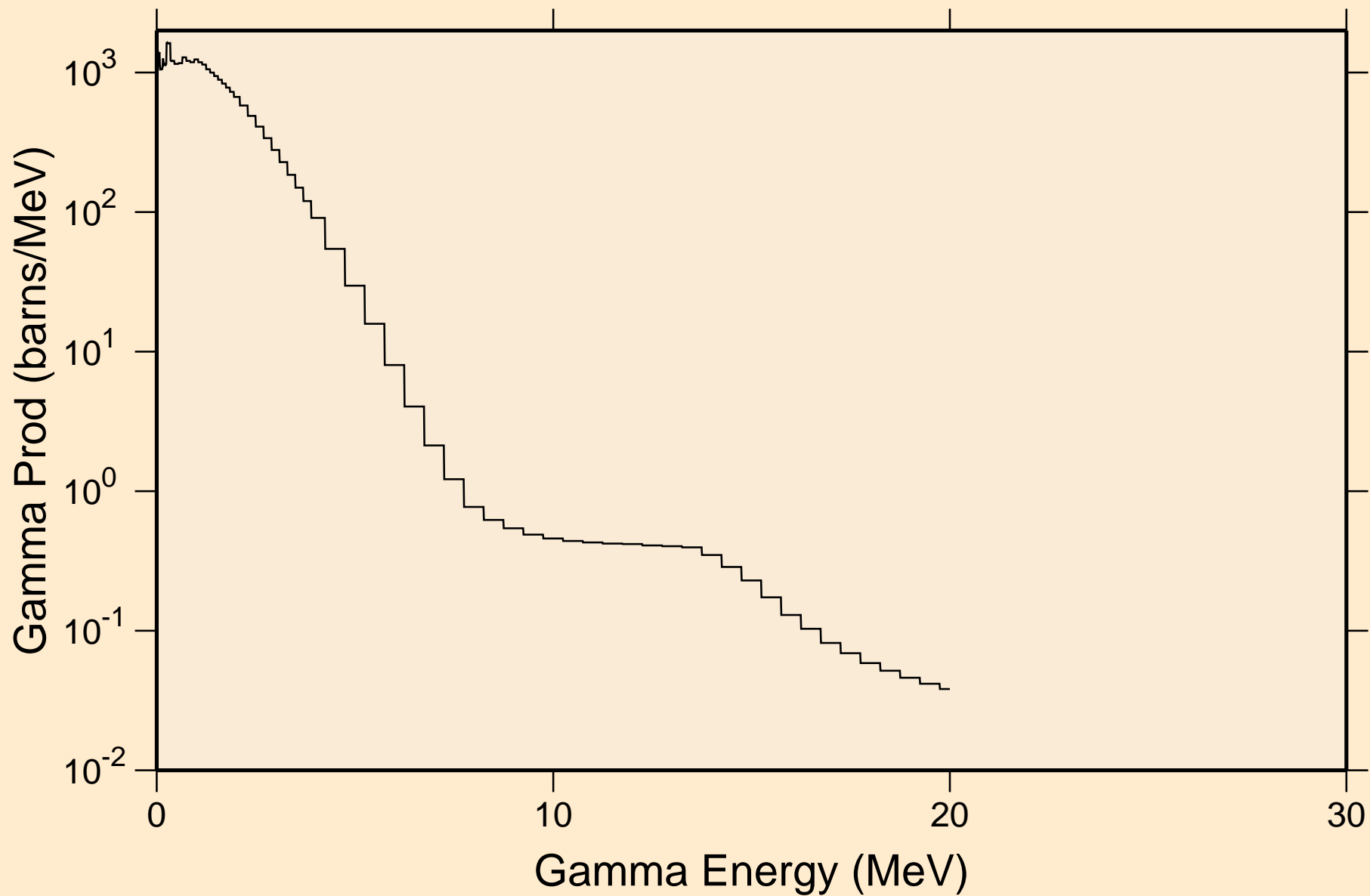
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Photon emission for (n,2p)



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

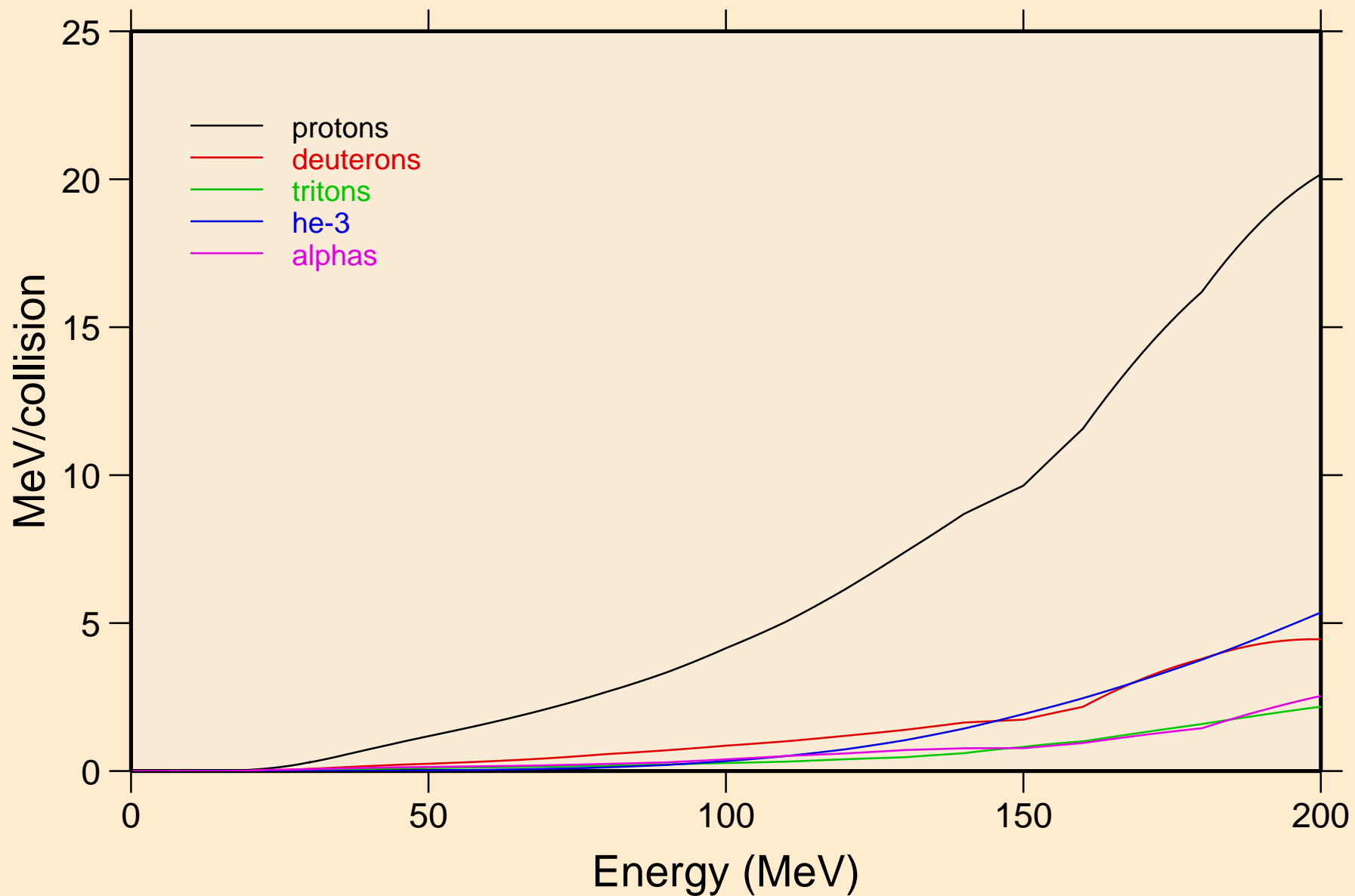


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



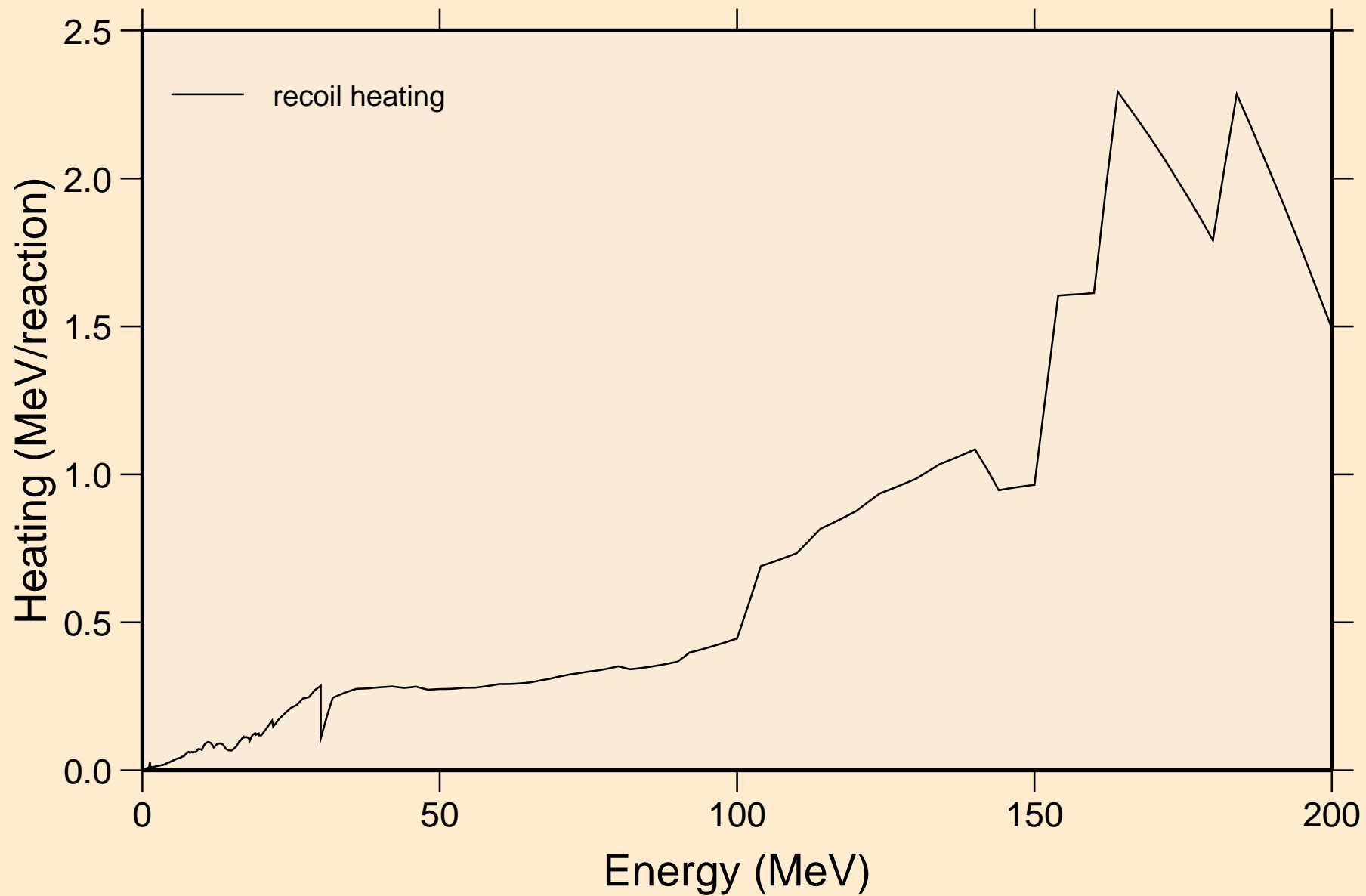
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## Particle heating contributions

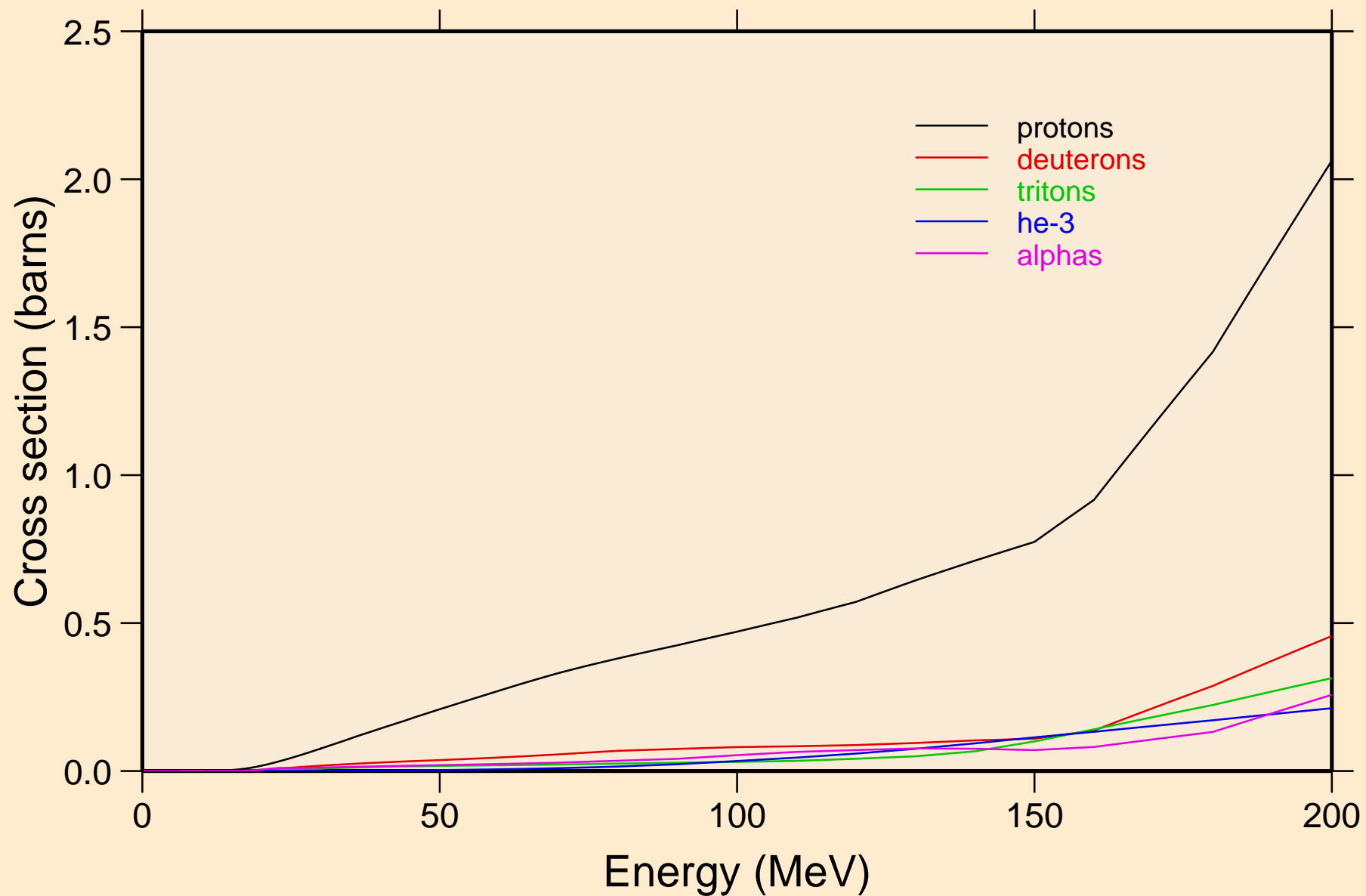


# GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

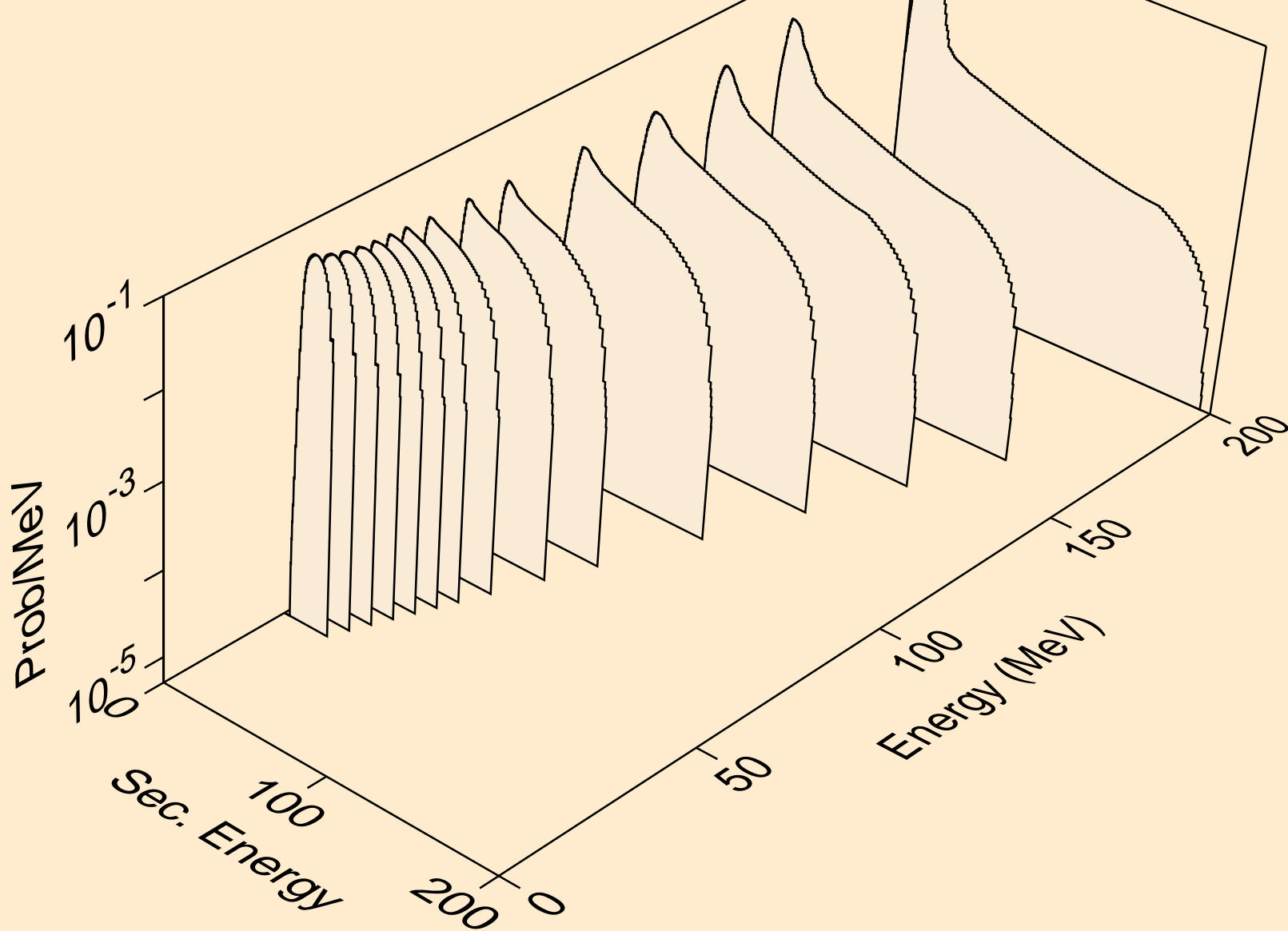
## Recoil Heating



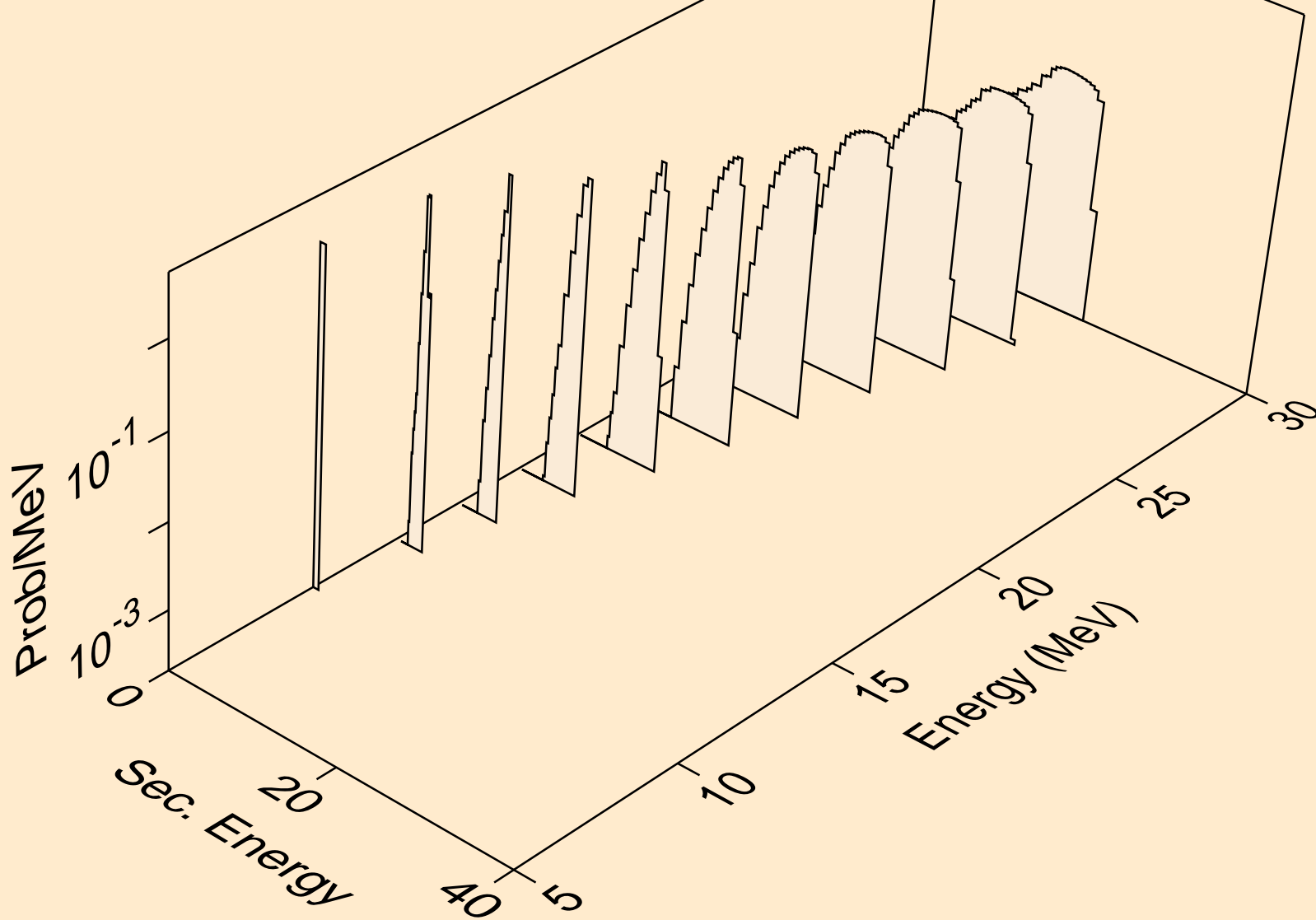
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

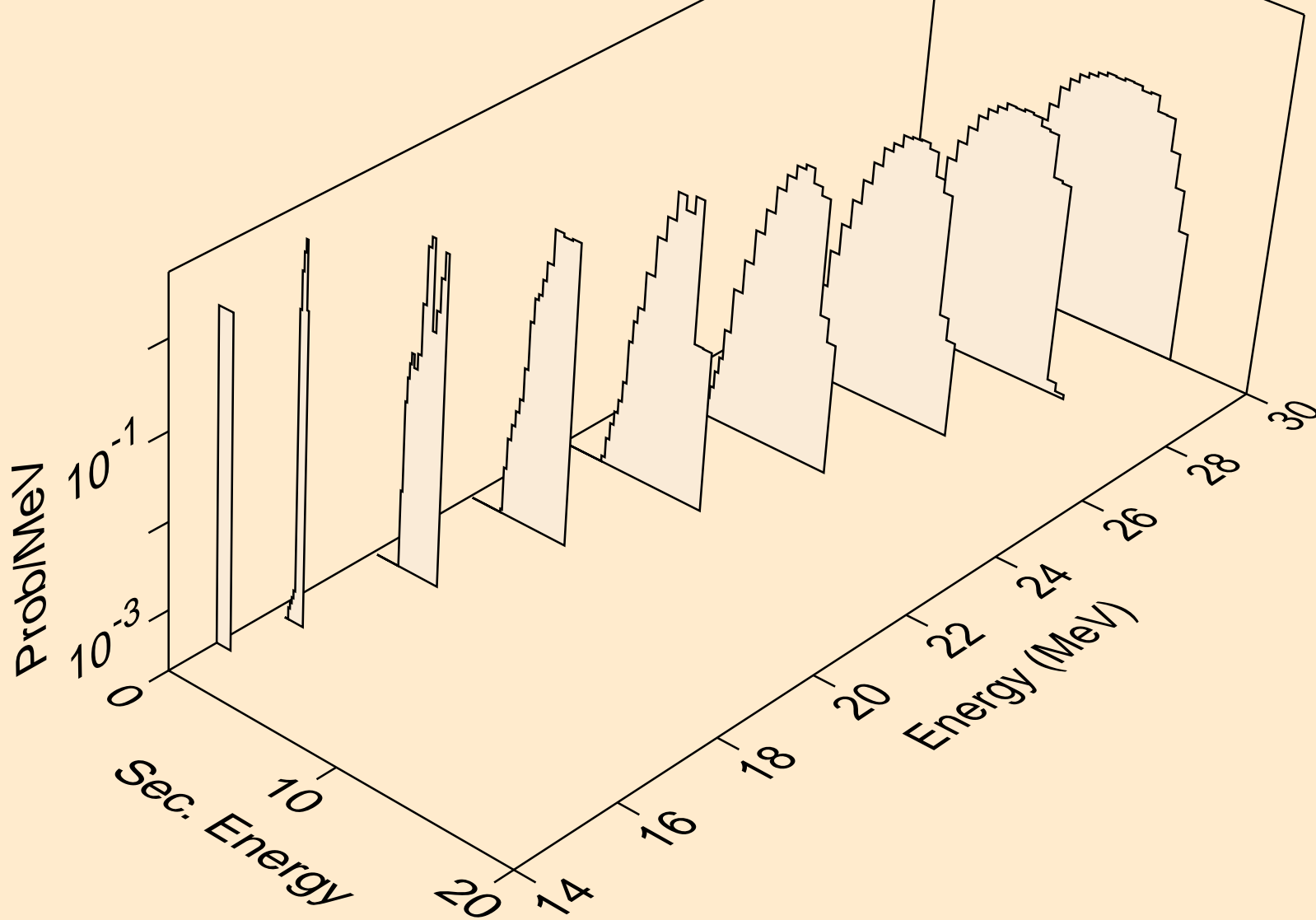


GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p

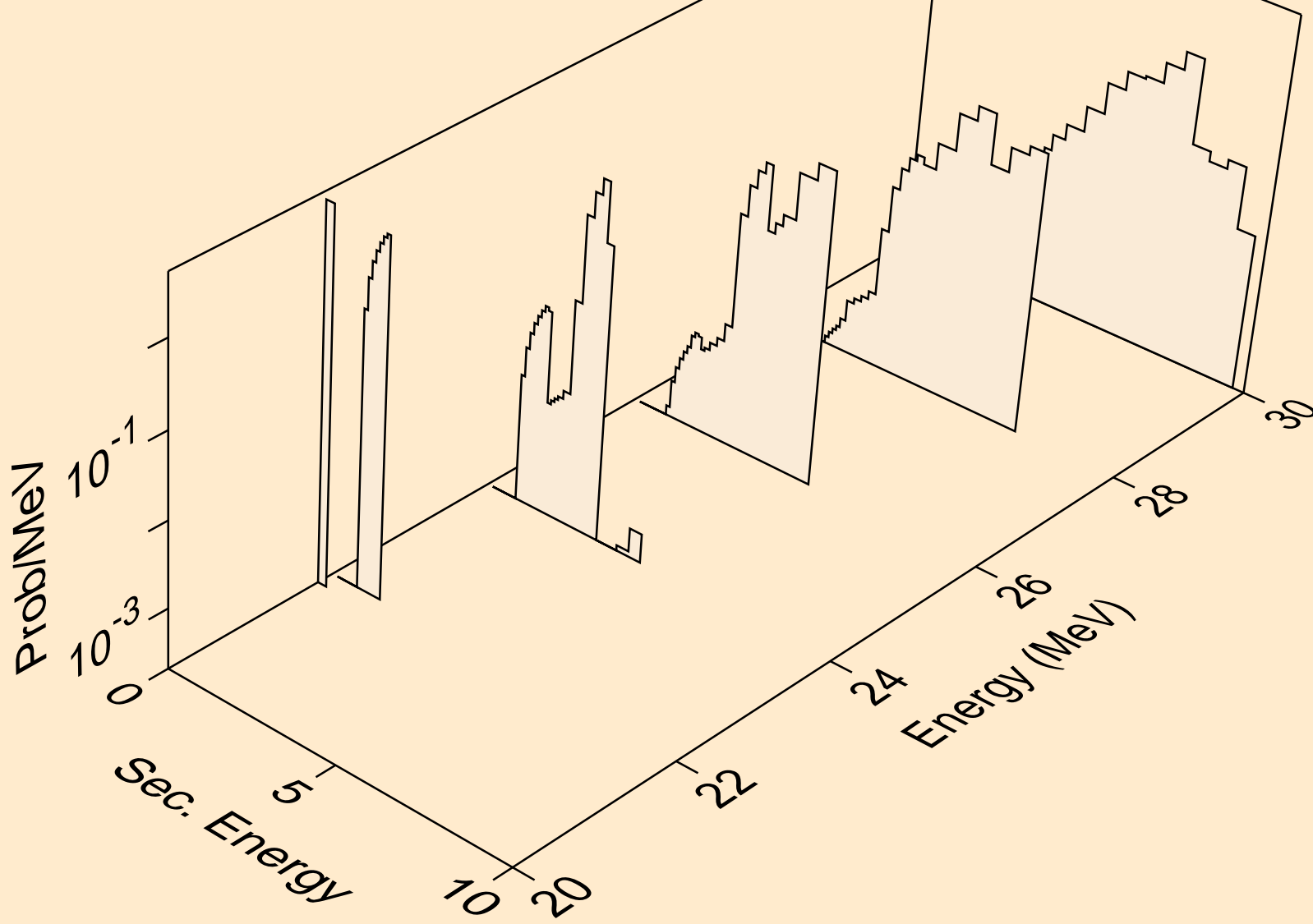




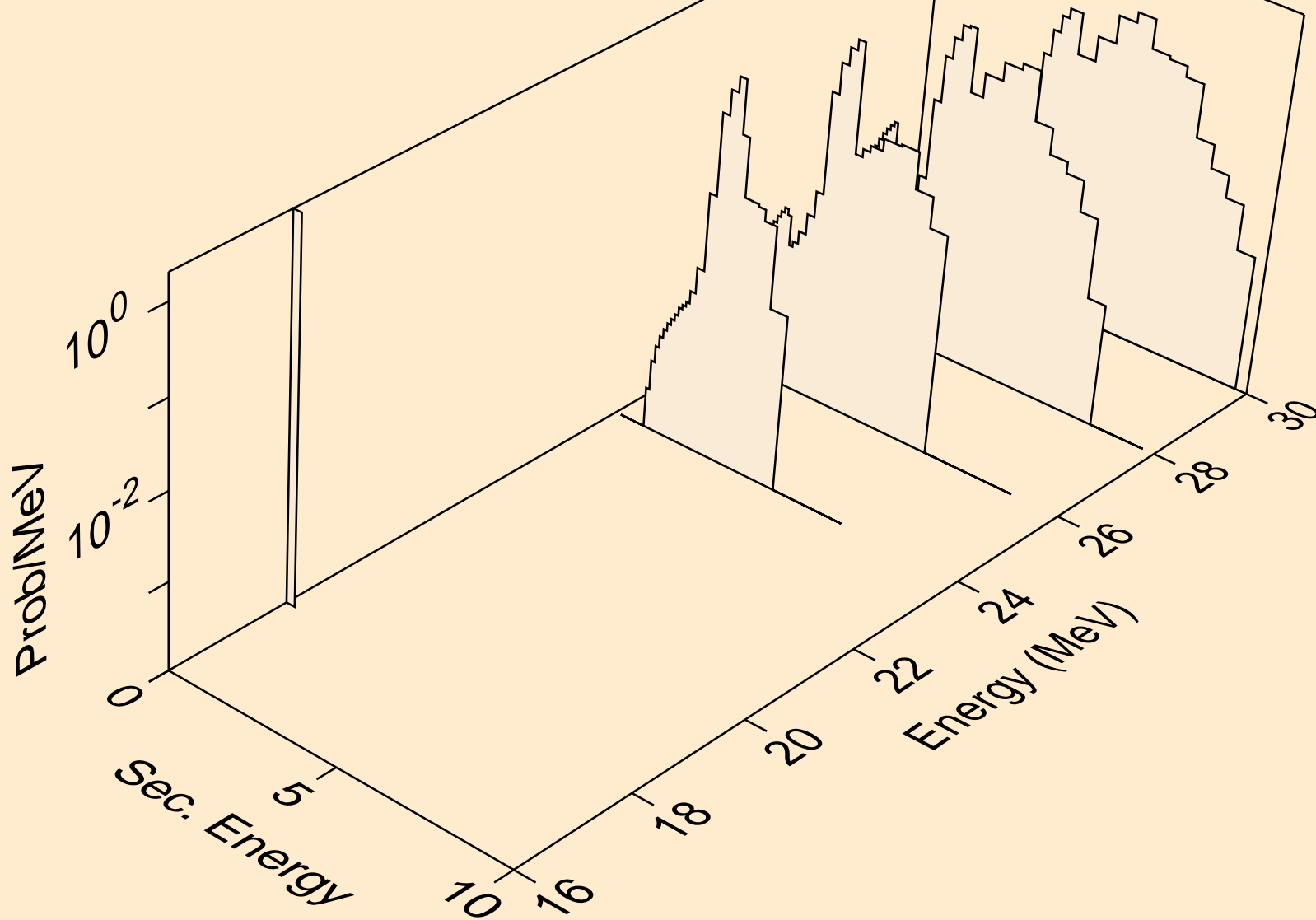
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protons from (n,2np)



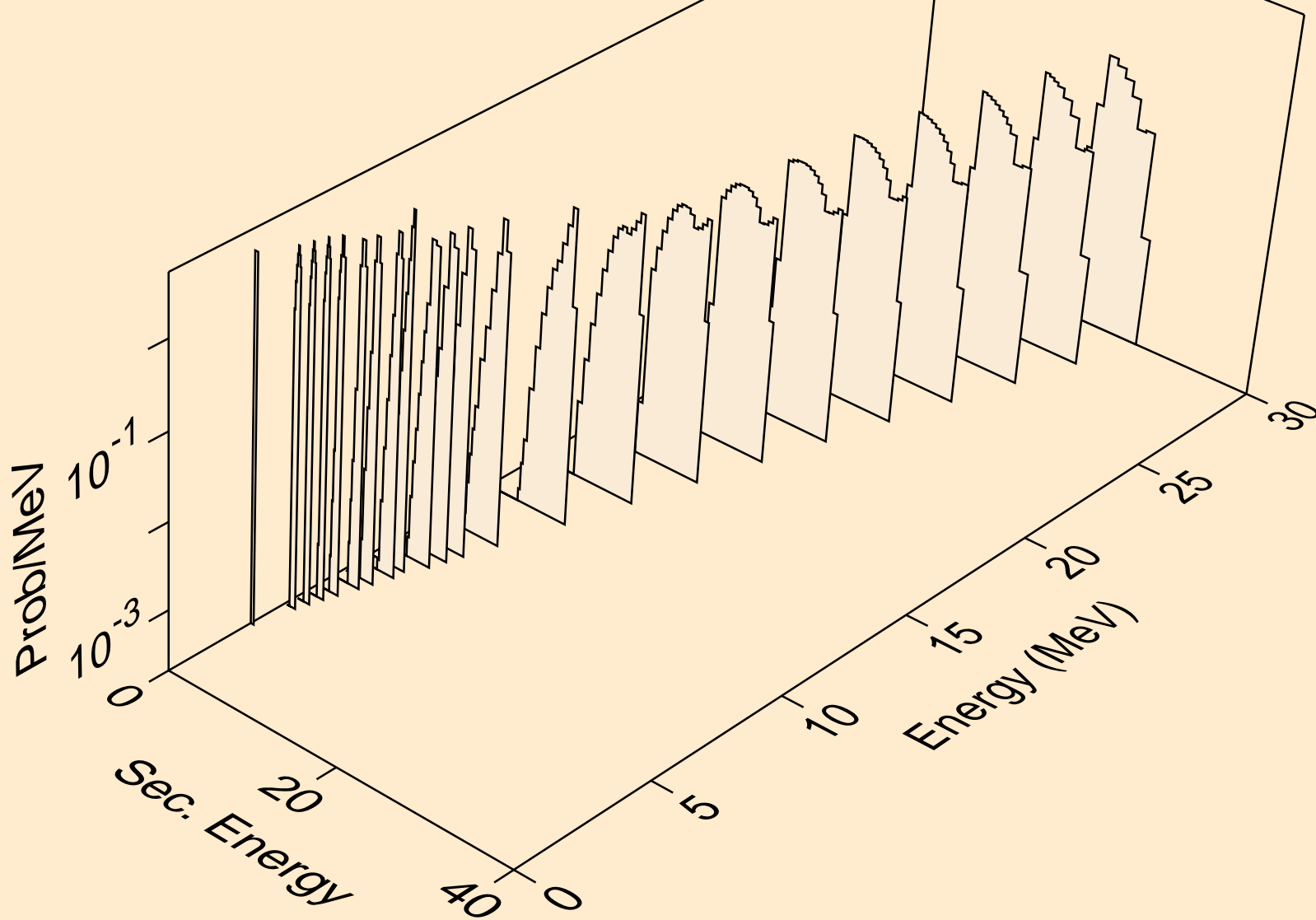
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protons from (n,3np)



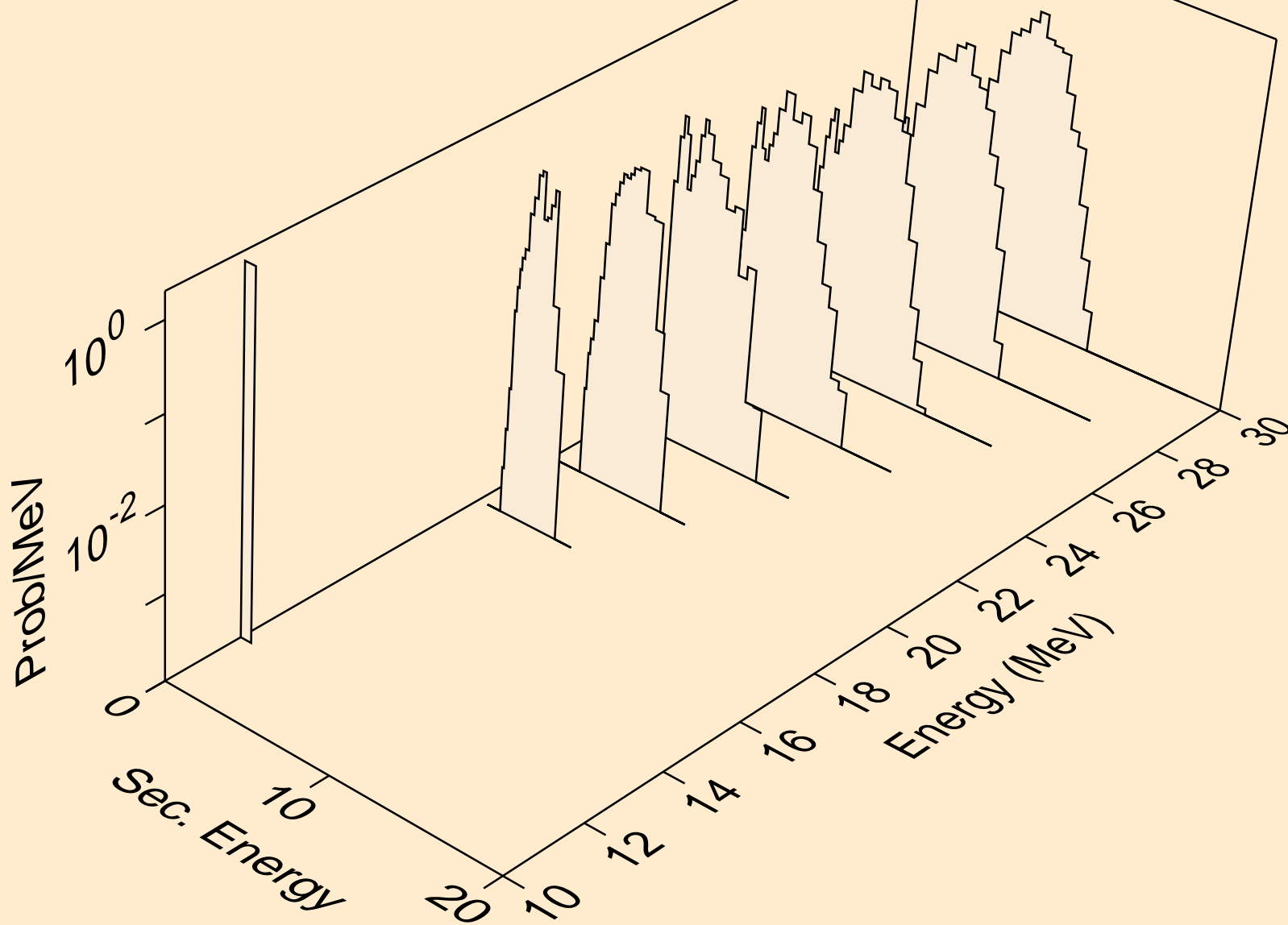
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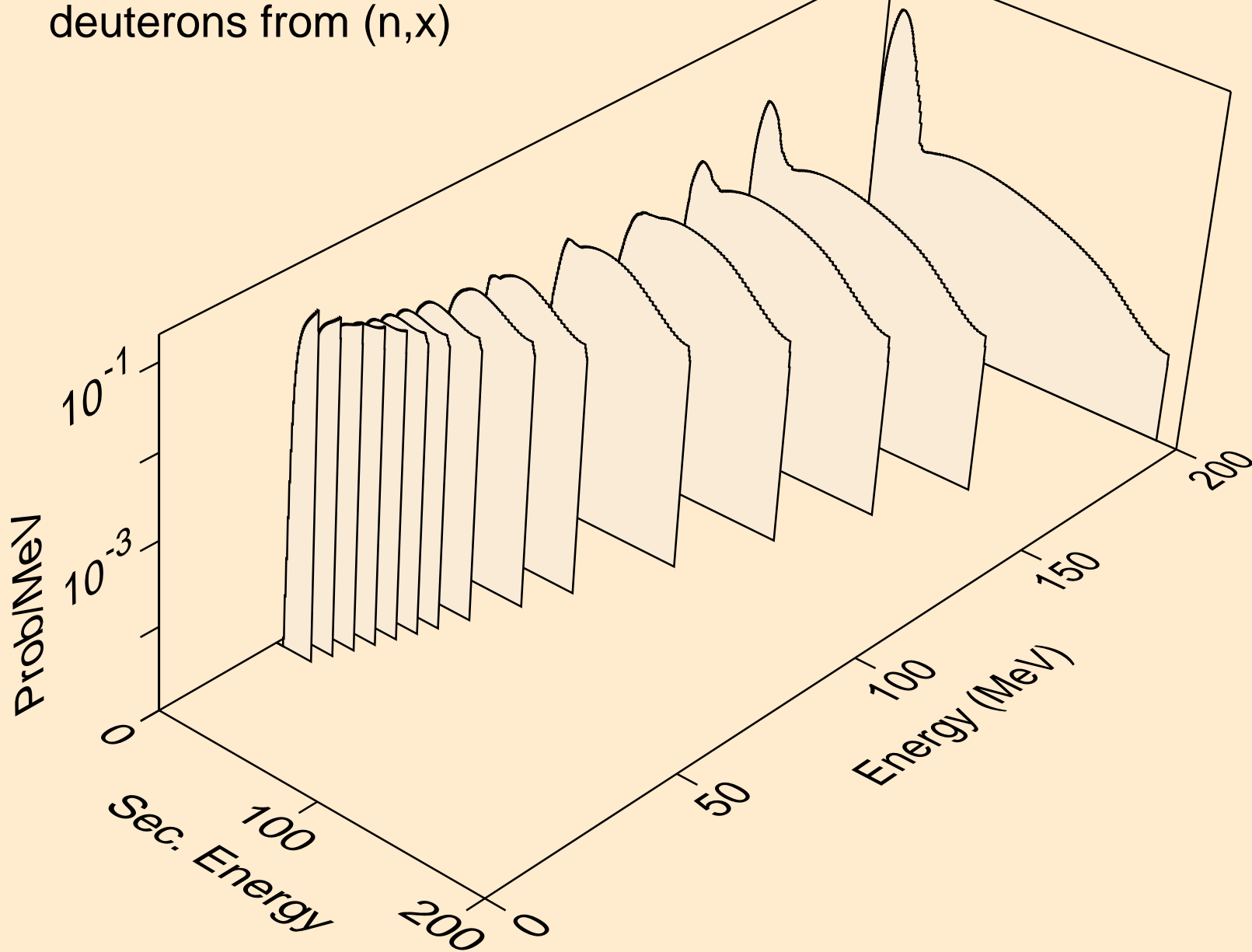
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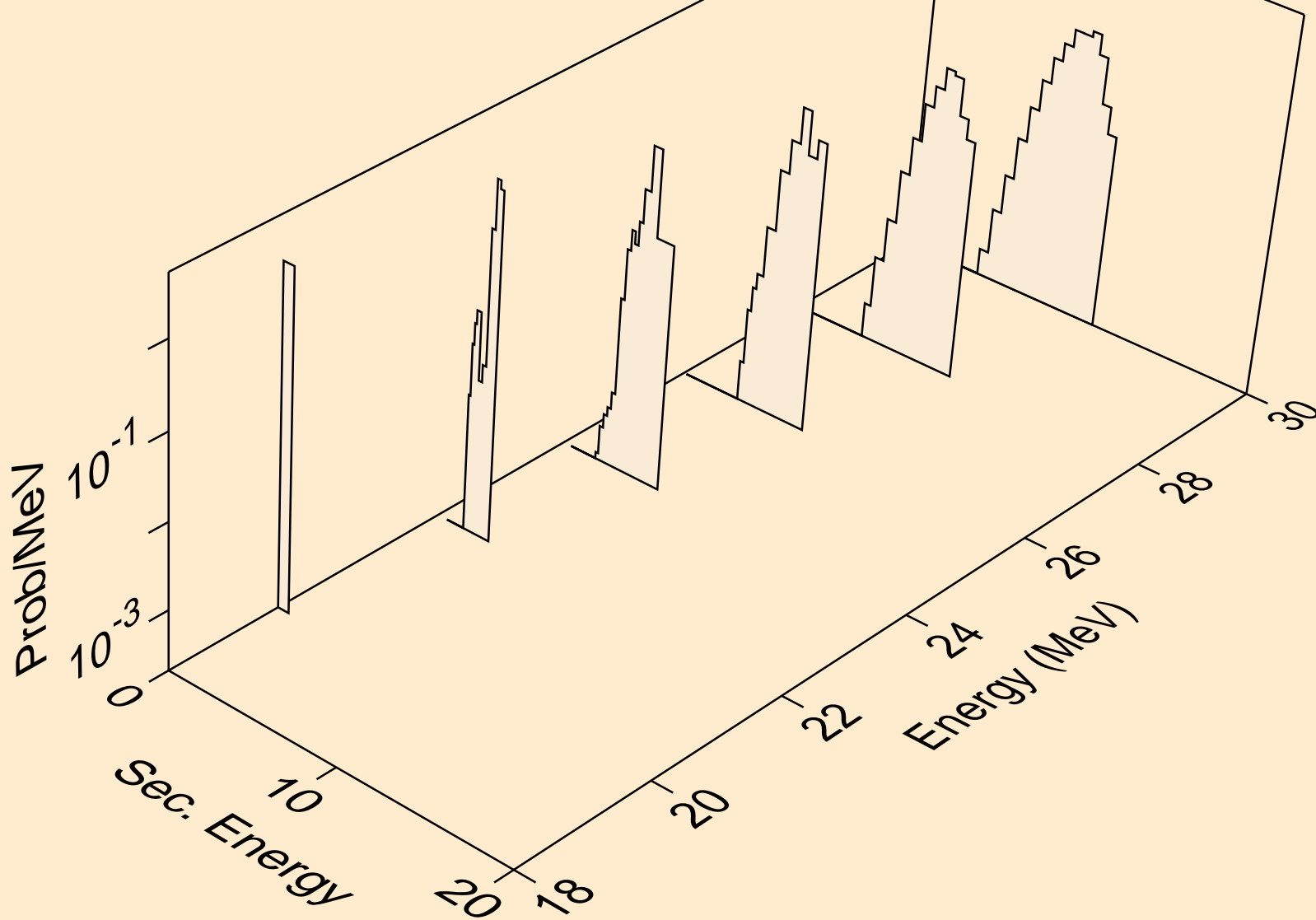
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protons from (n,2p)



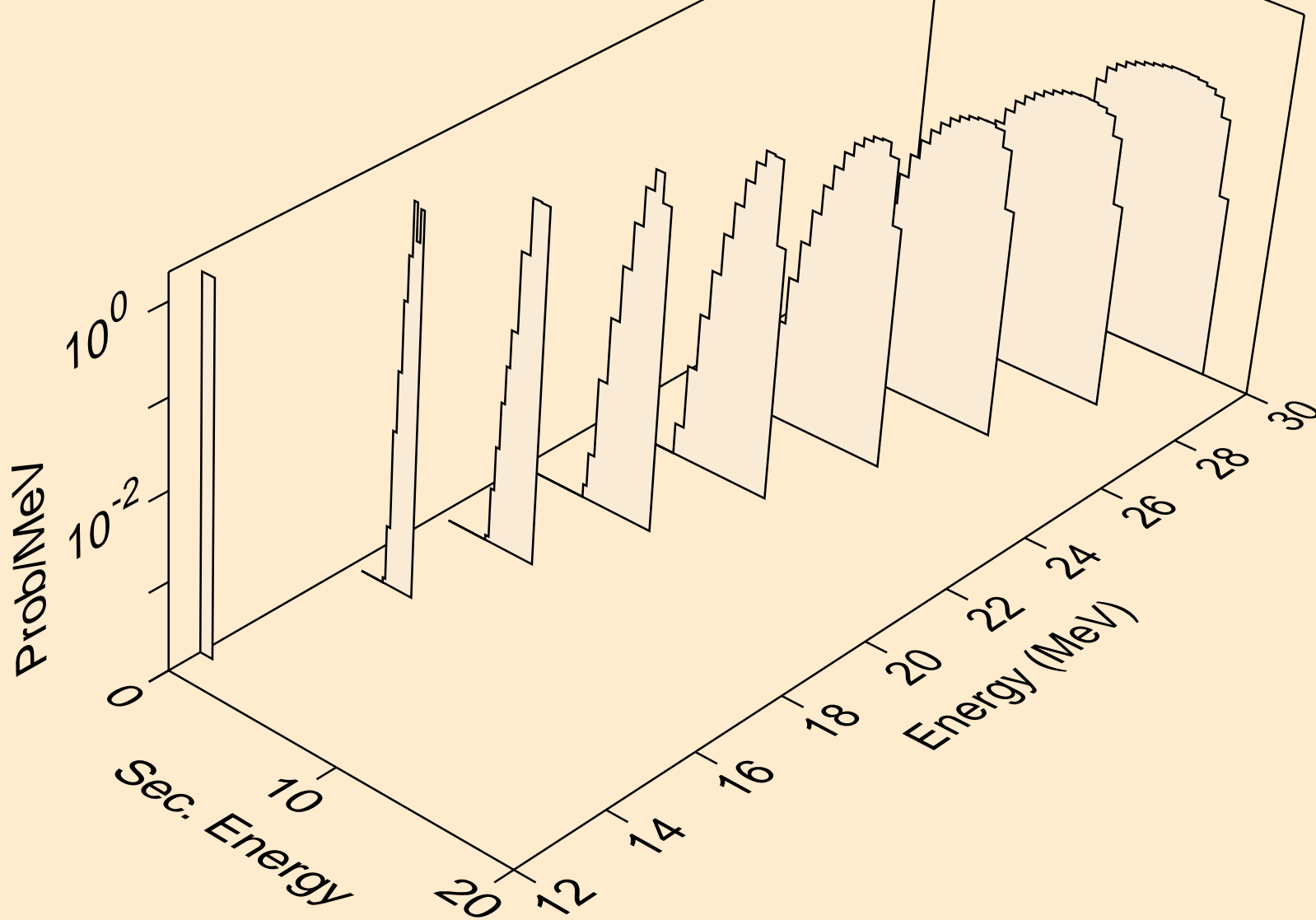
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deuterons from (n,x)



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deuterons from (n,2nd)

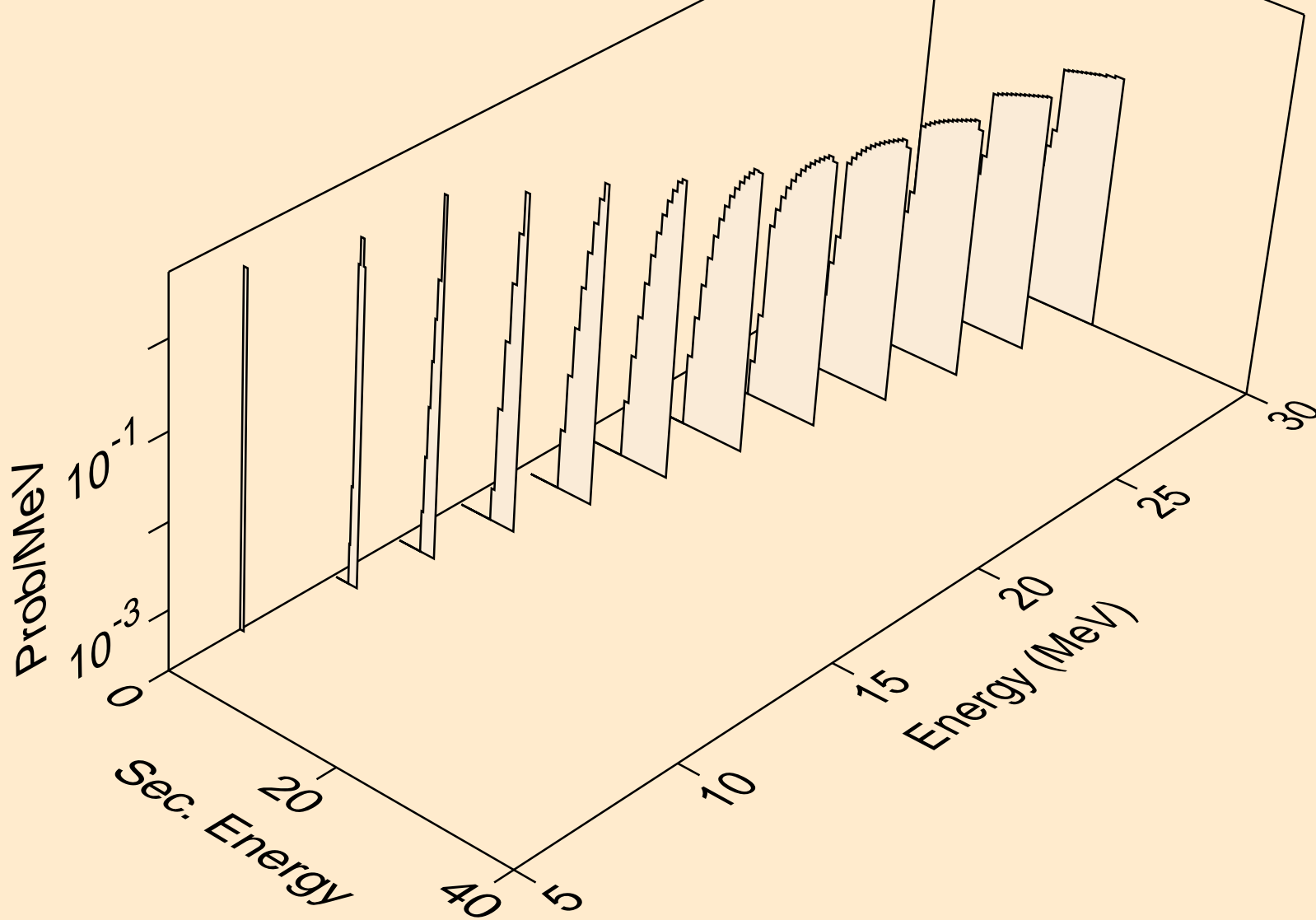


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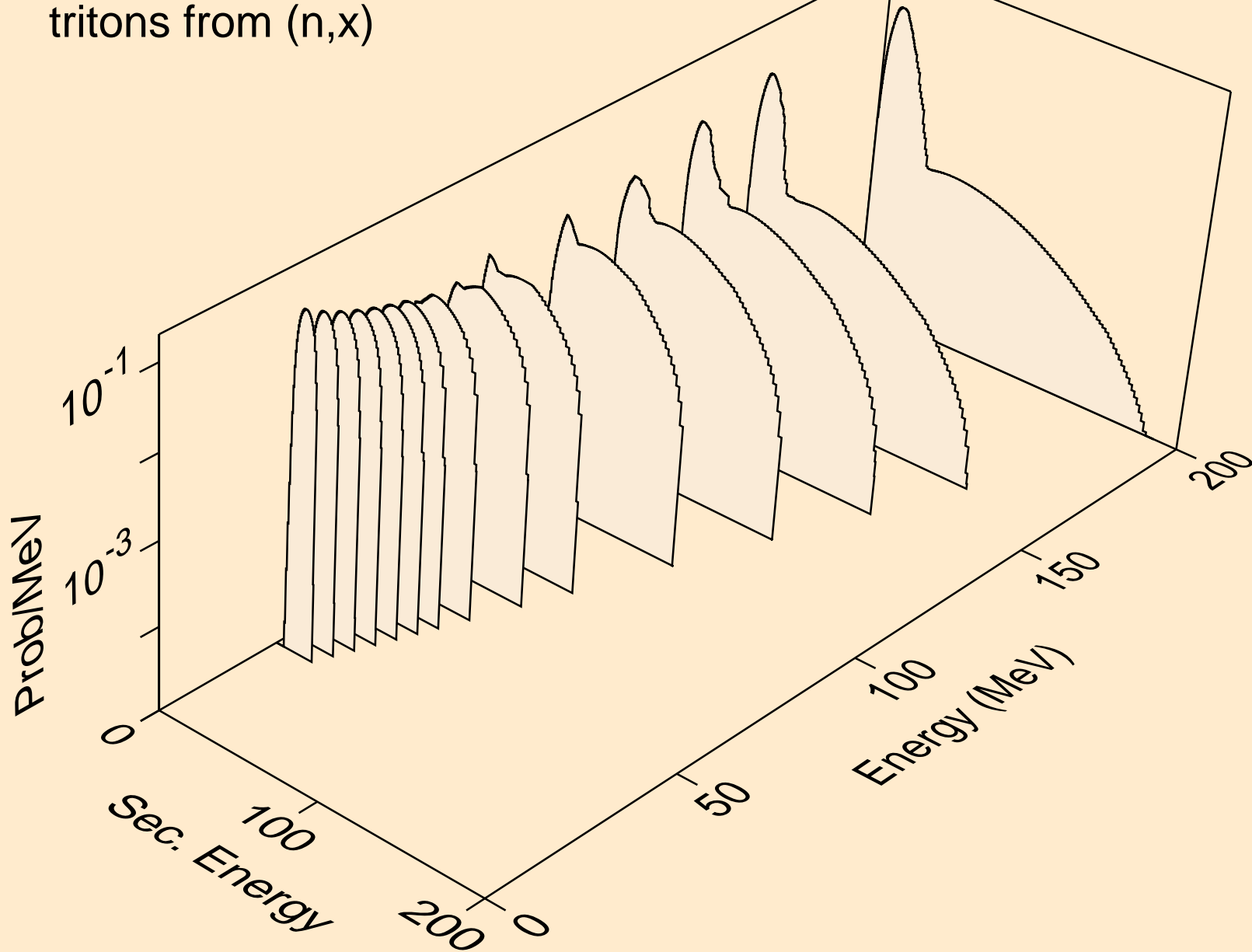




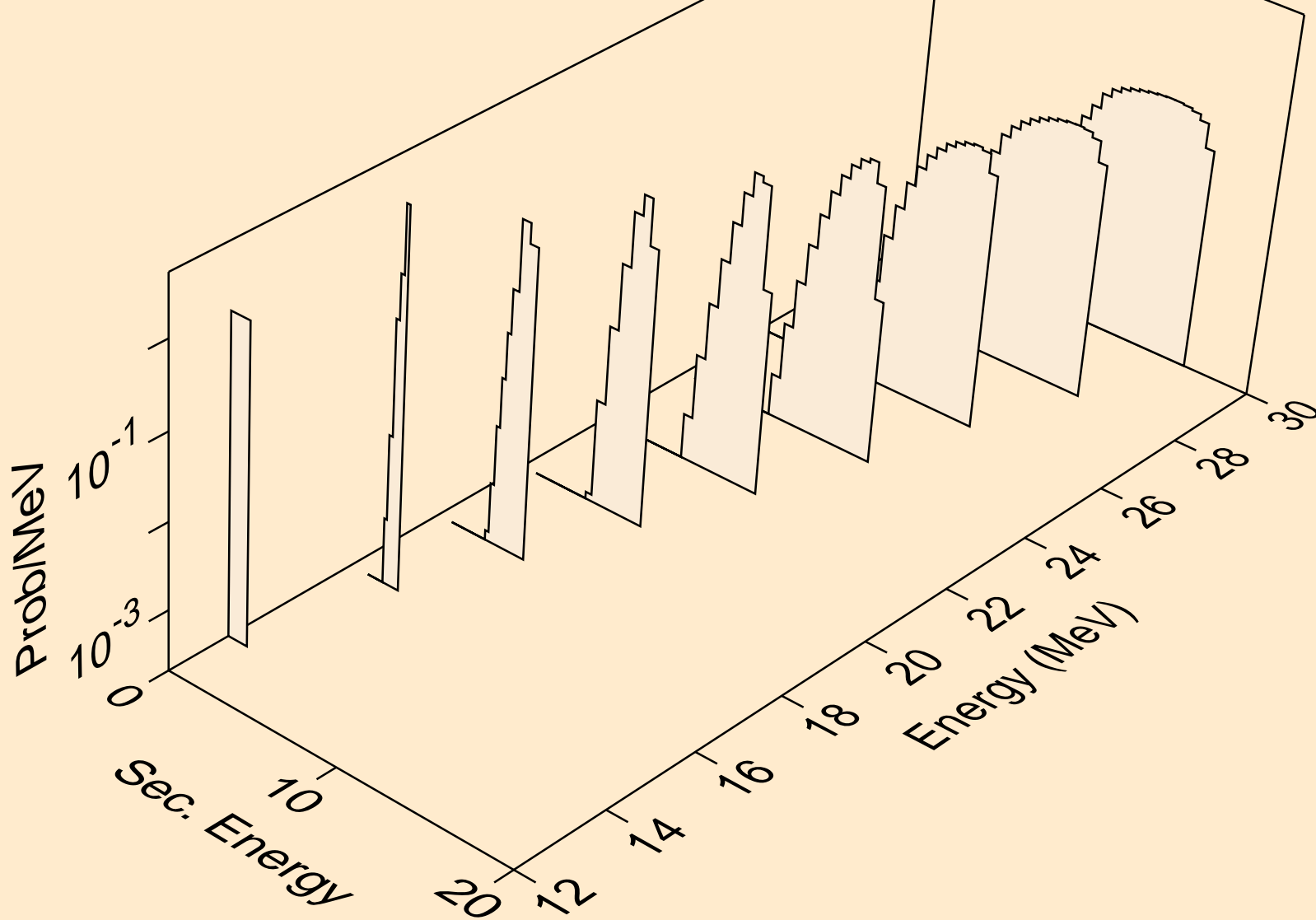
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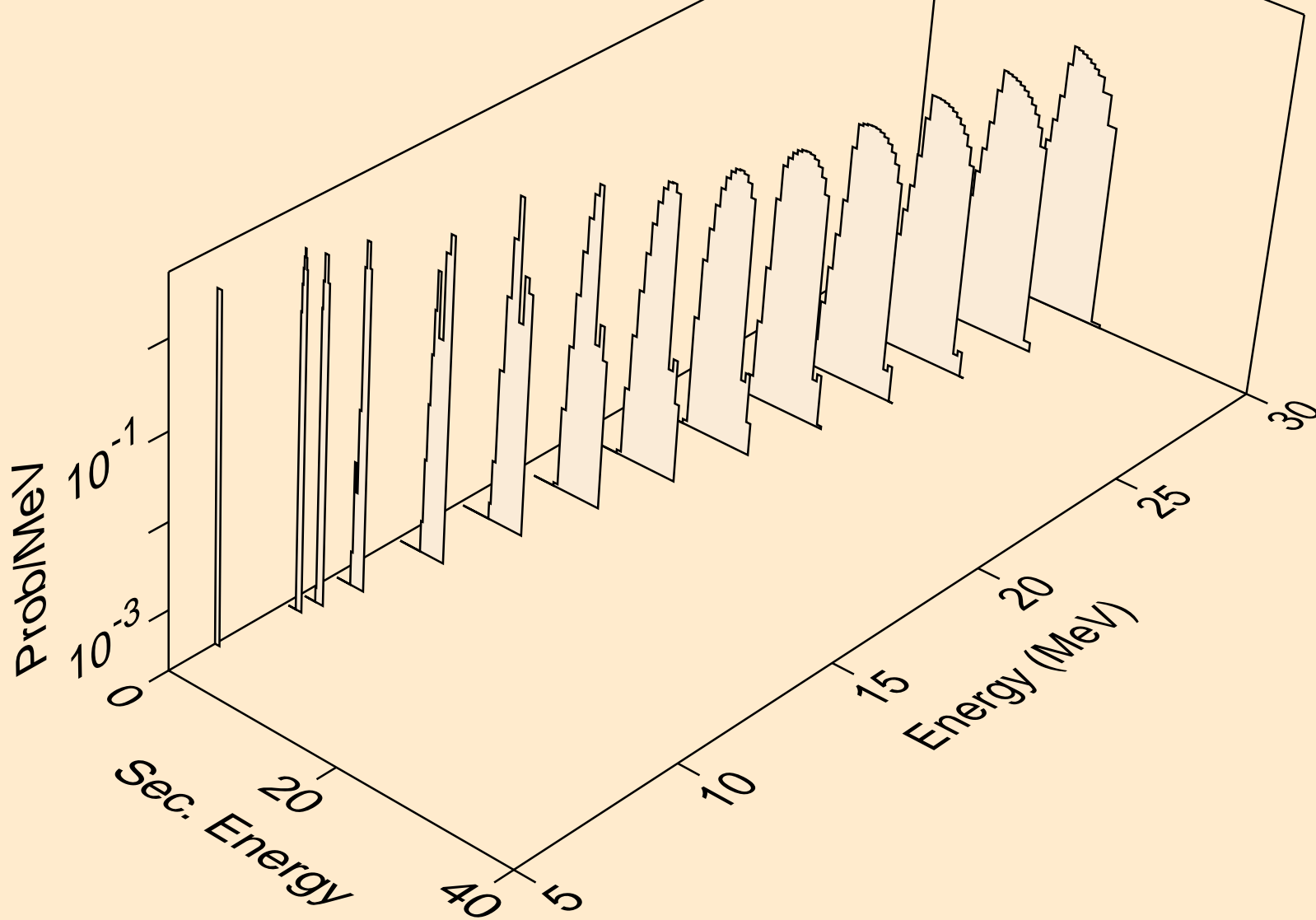
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tritons from (n,x)



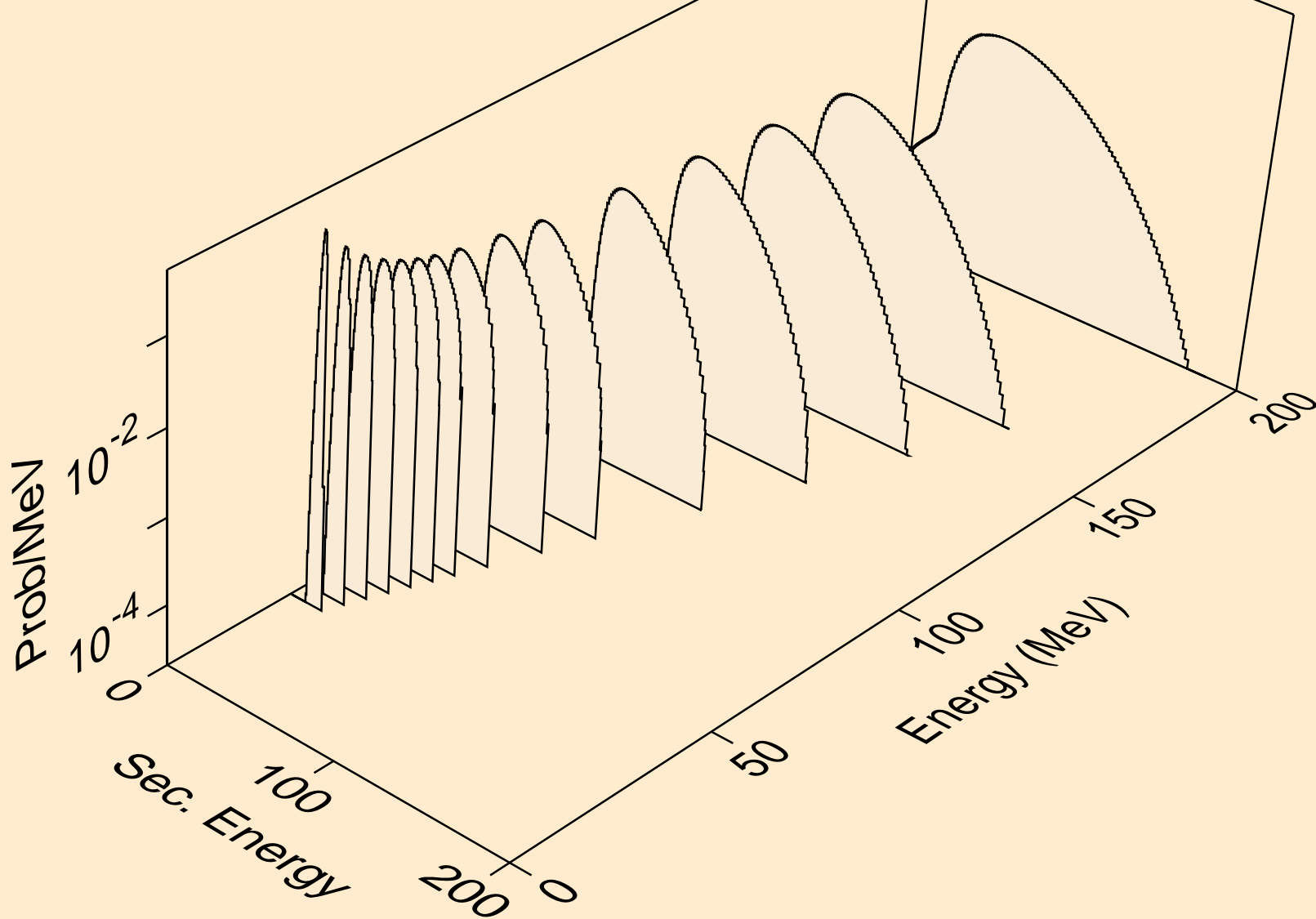
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tritons from (n,n\*)t



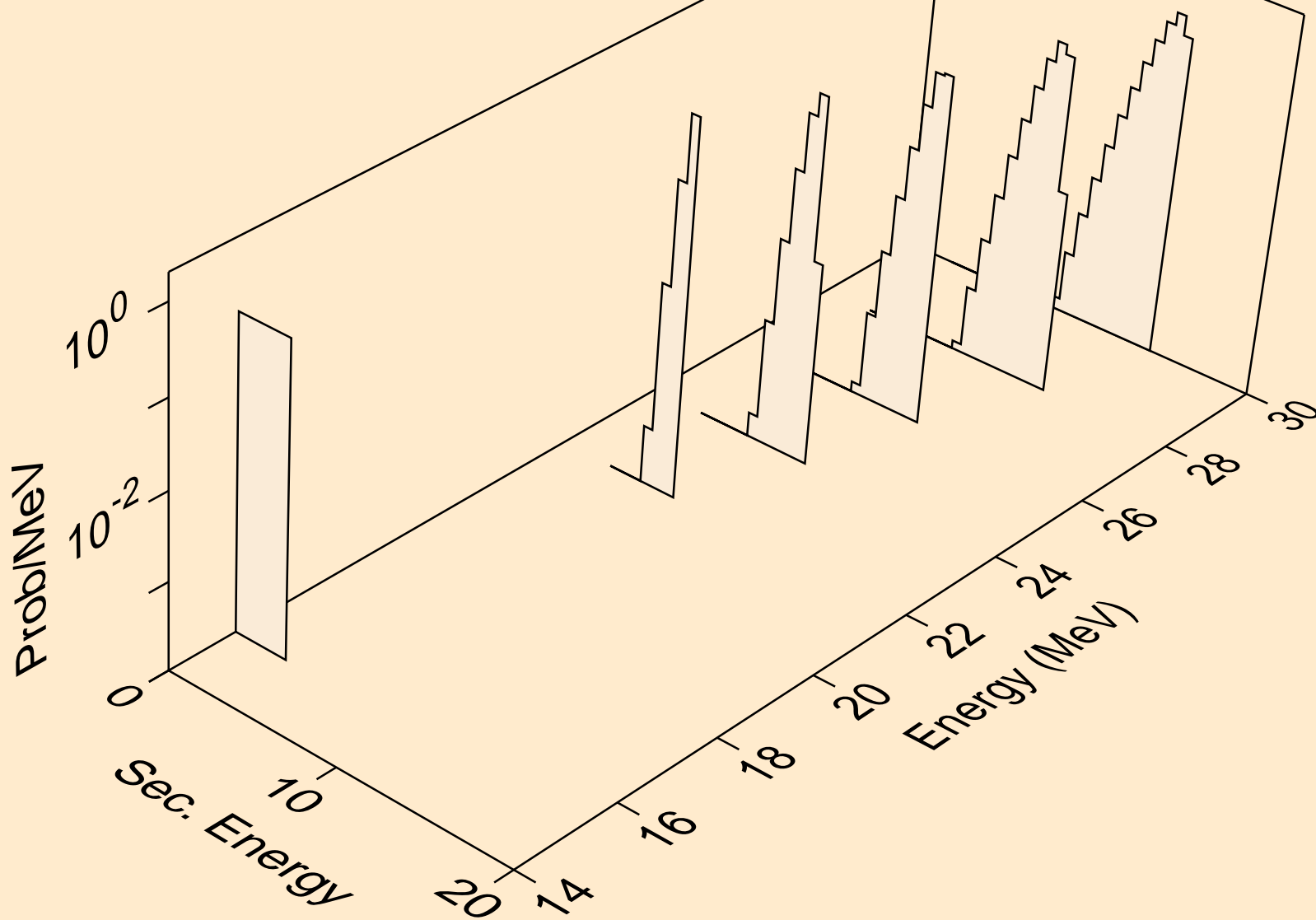
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tritons from (n,t)



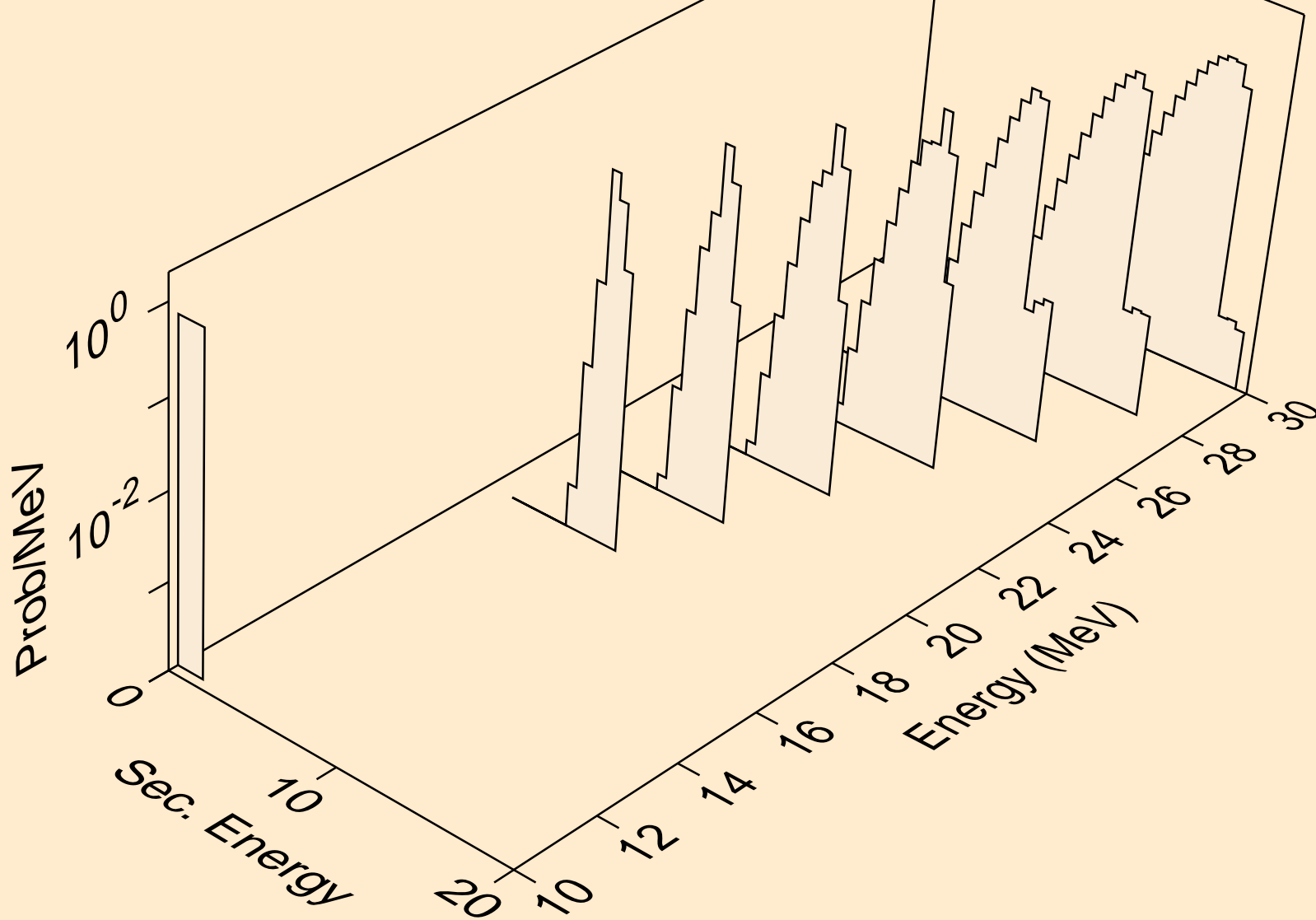
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he3s from (n,x)



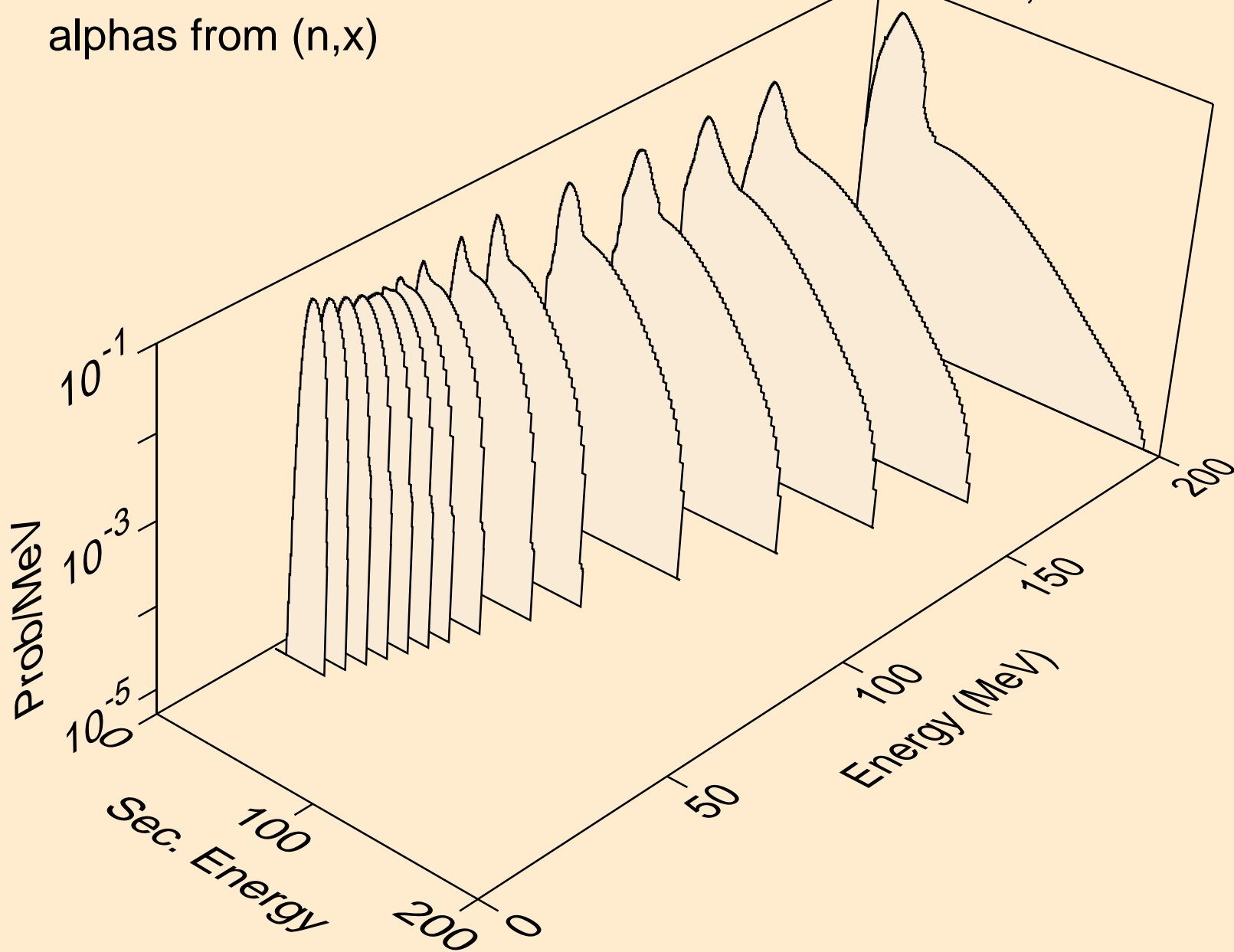
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)

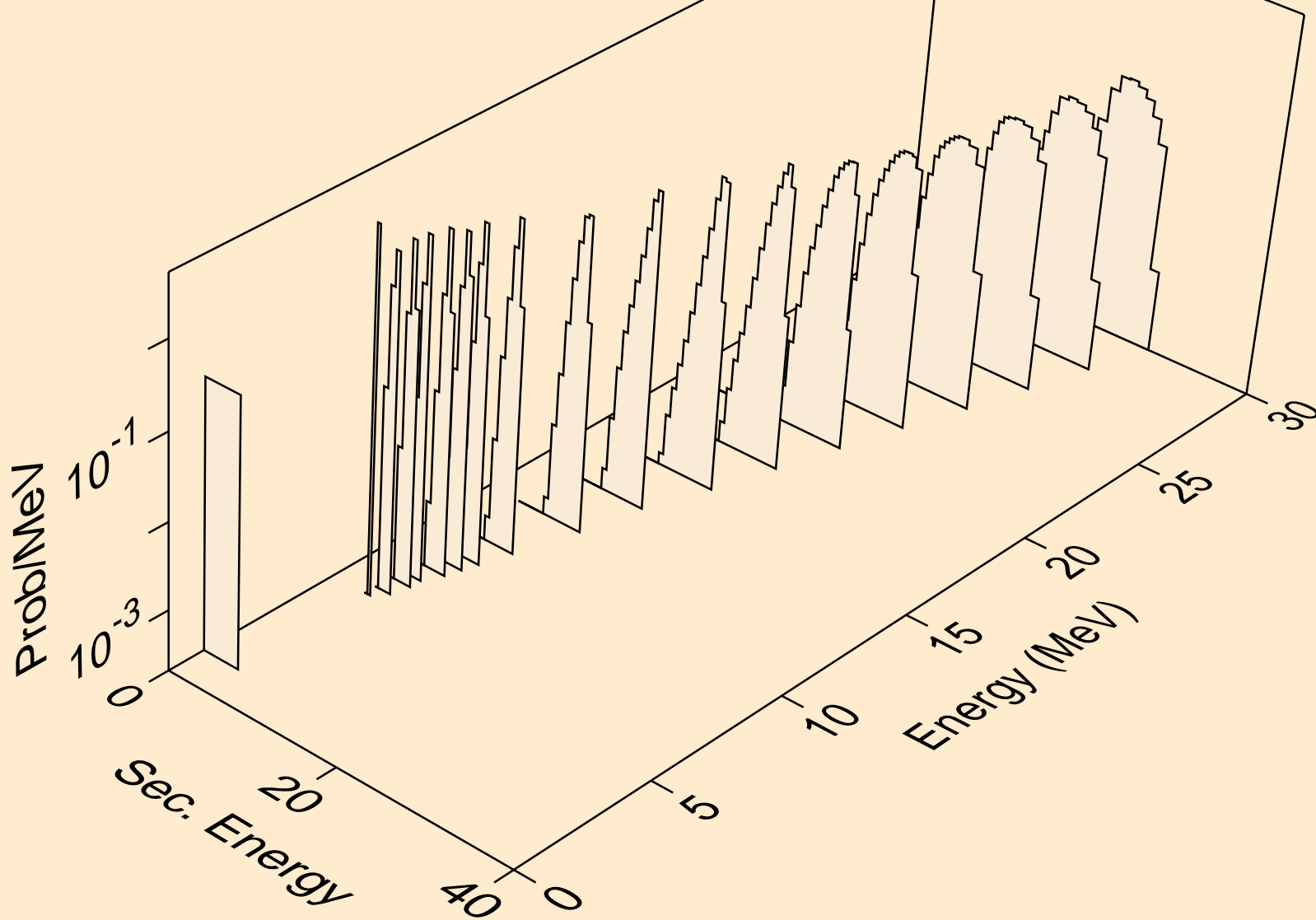


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alphas from (n,x)

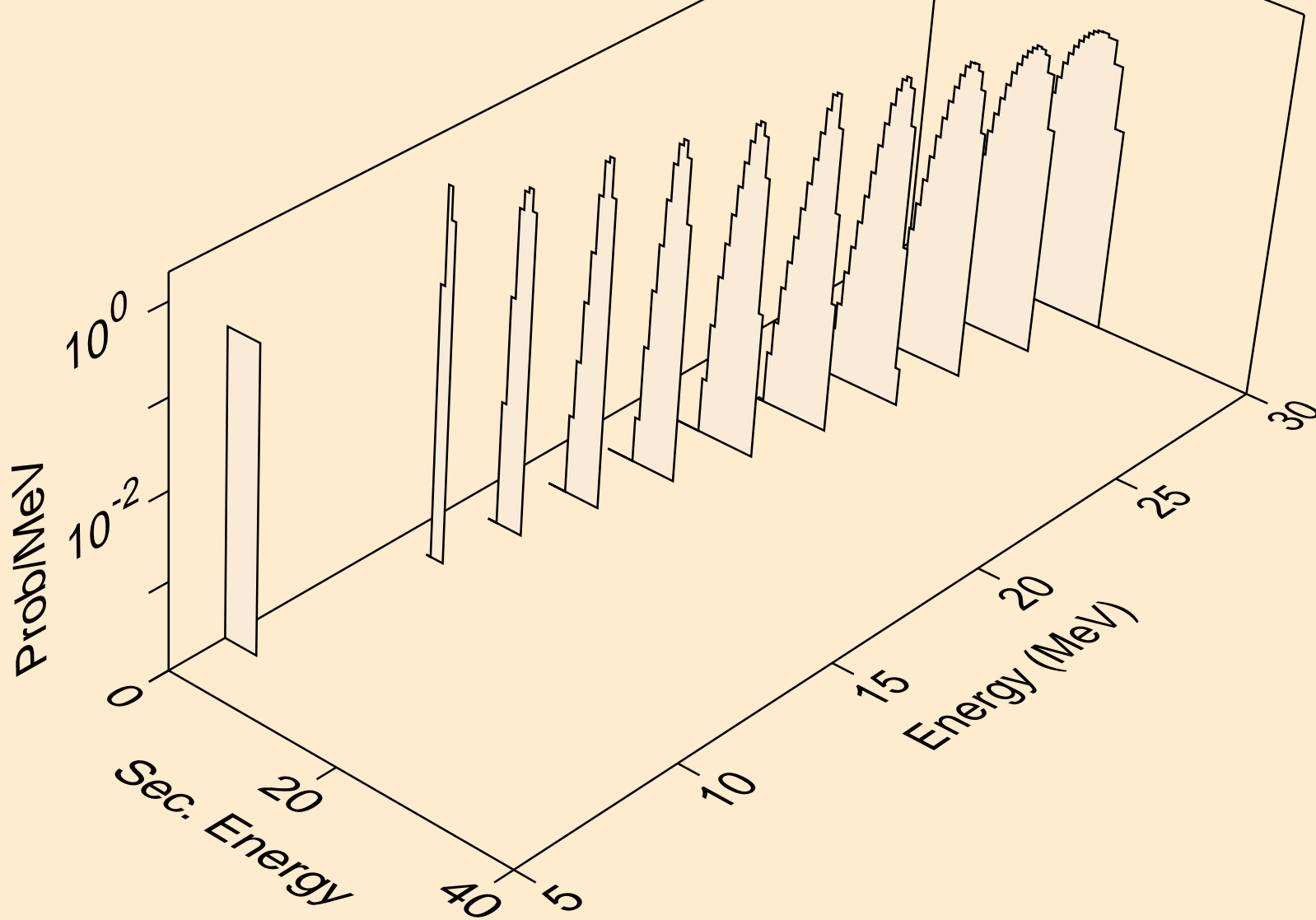




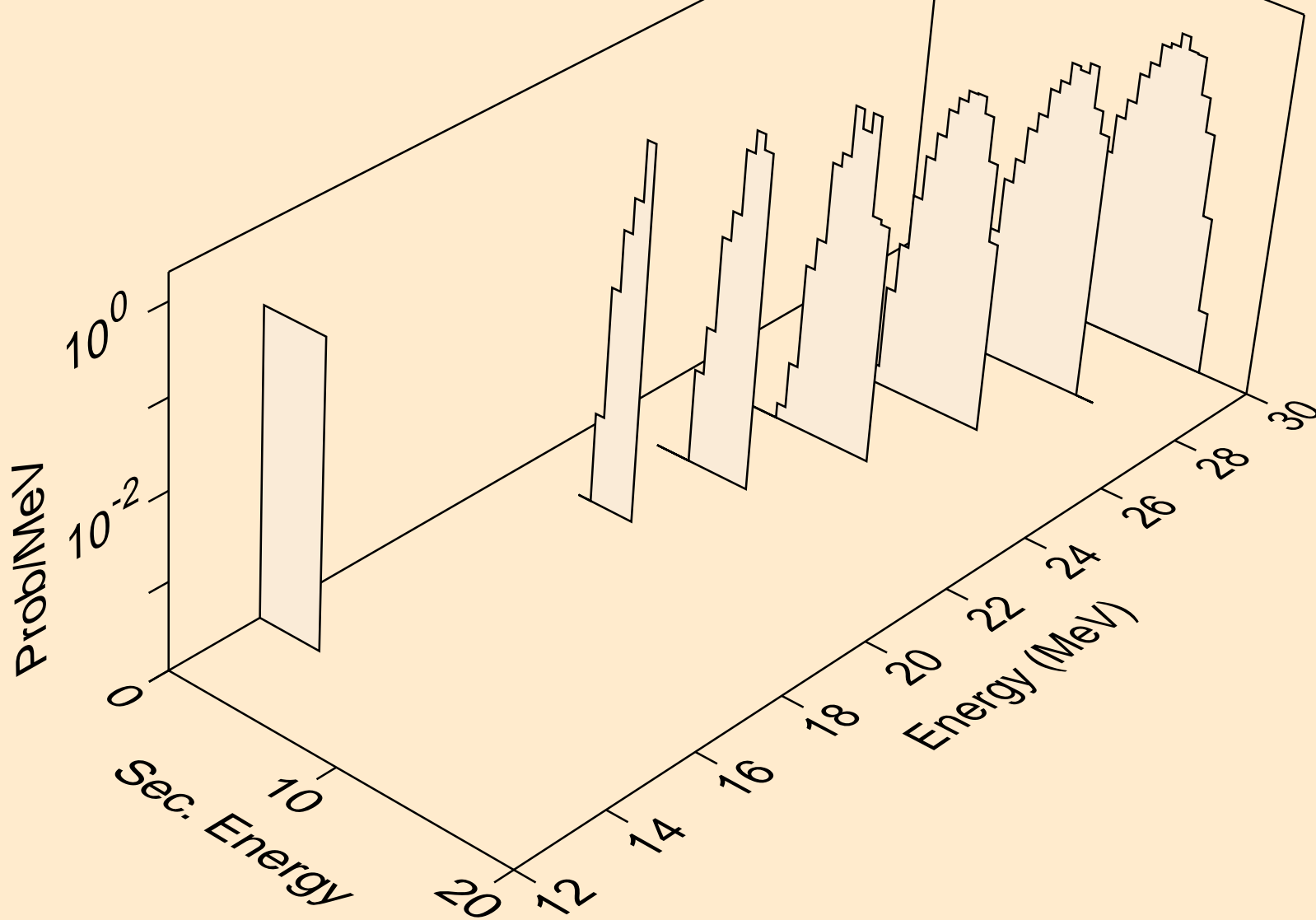
GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



GD161 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

