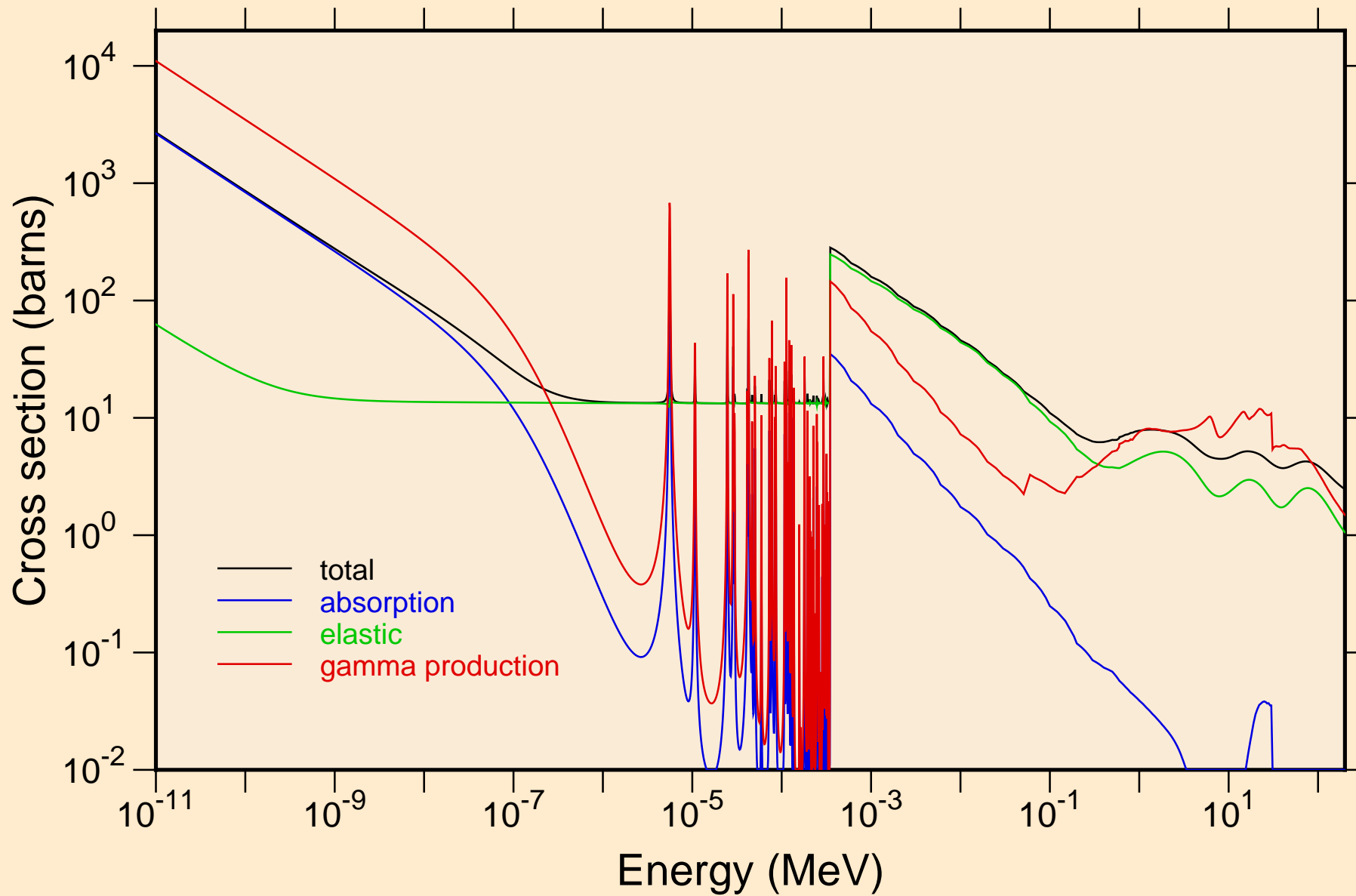
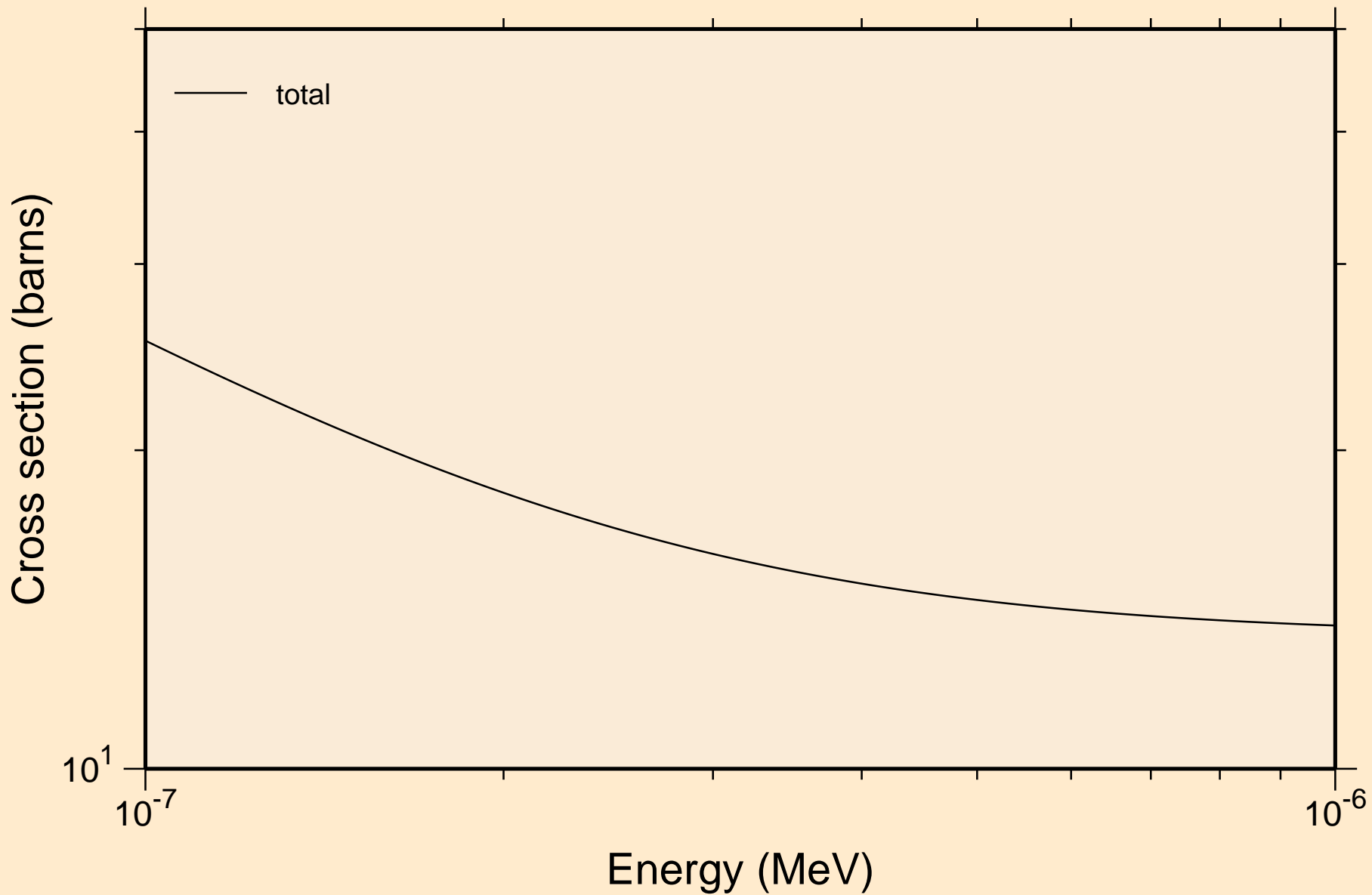


# GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

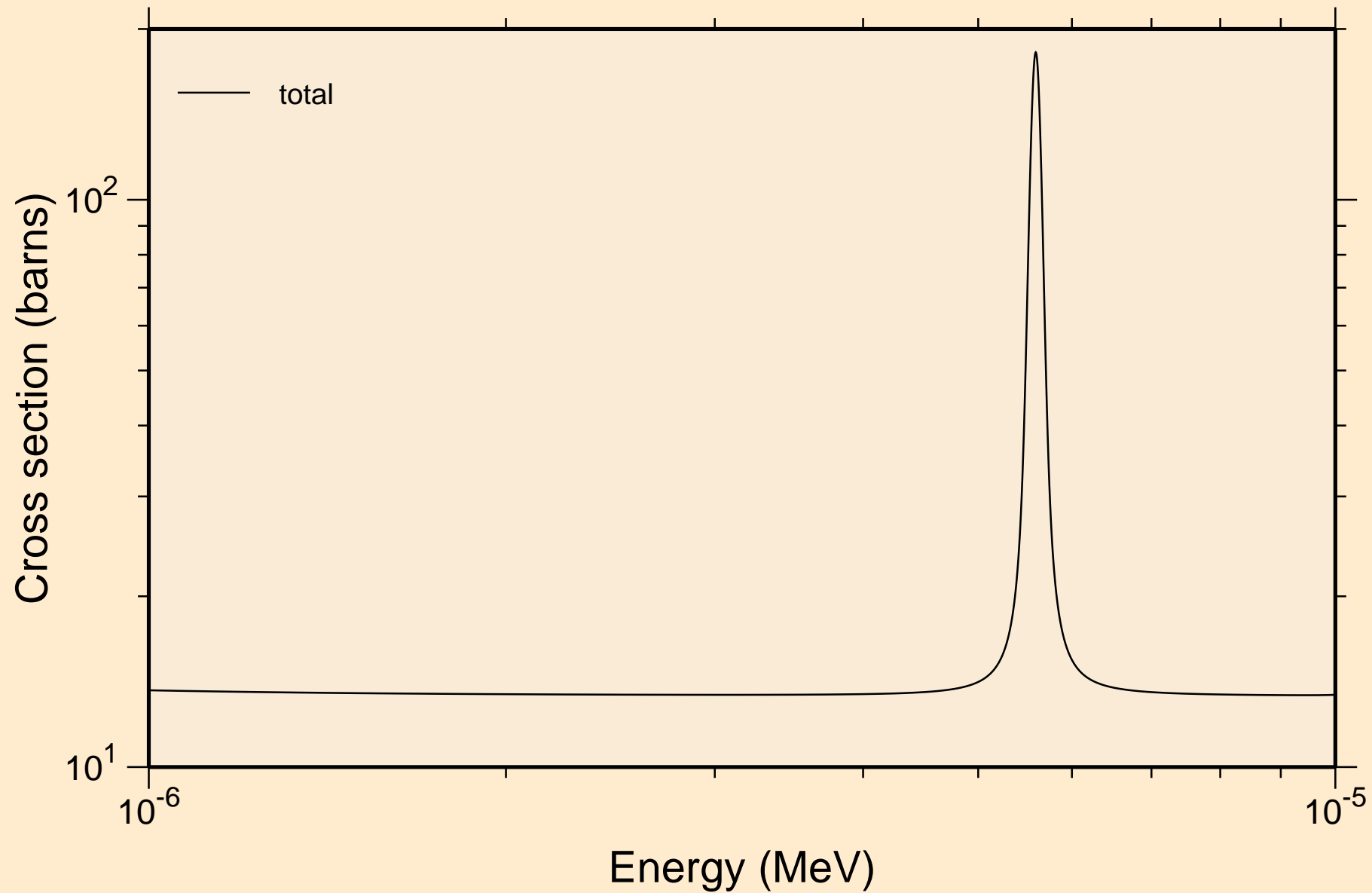
## Principal cross sections



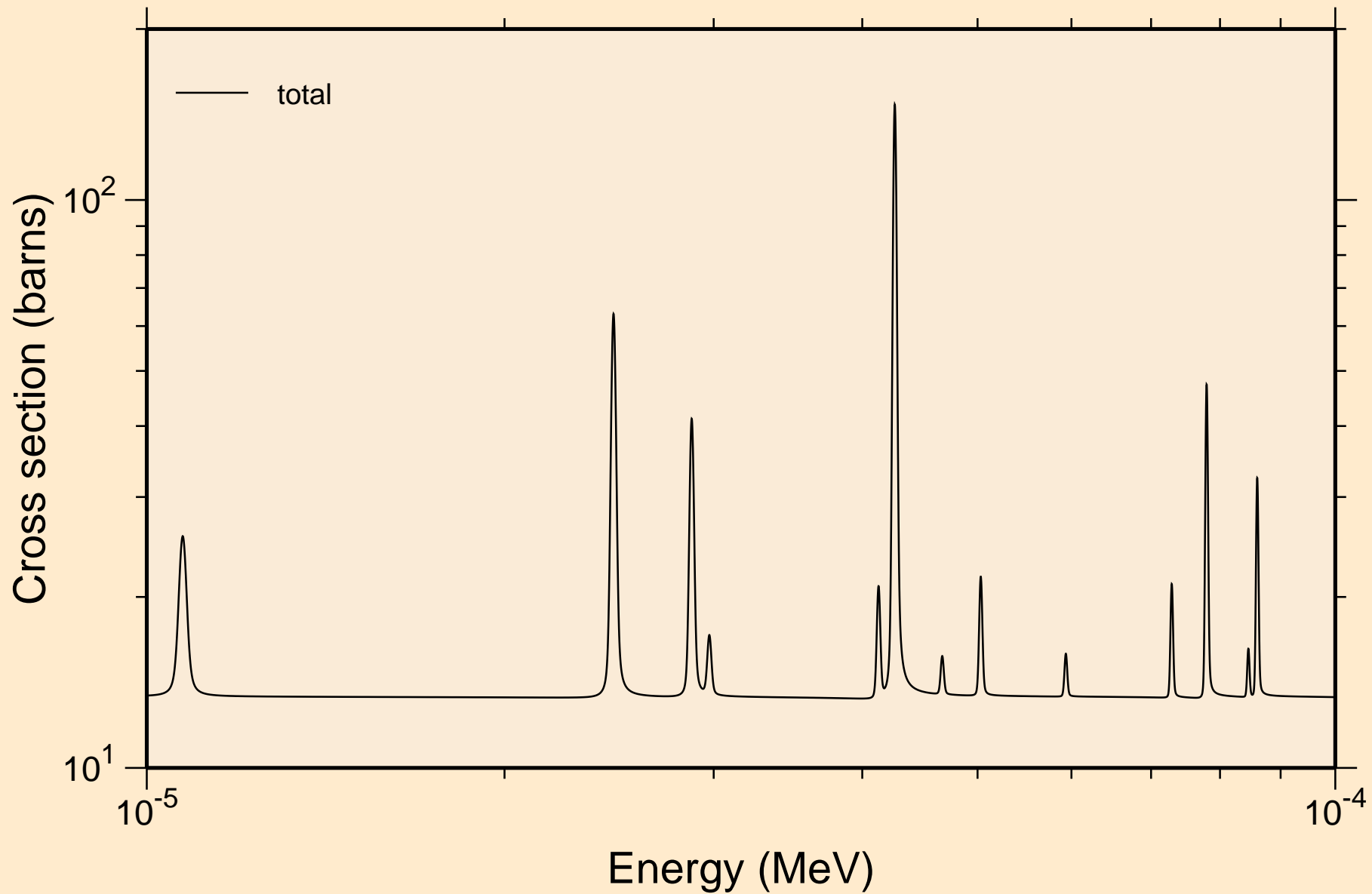
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



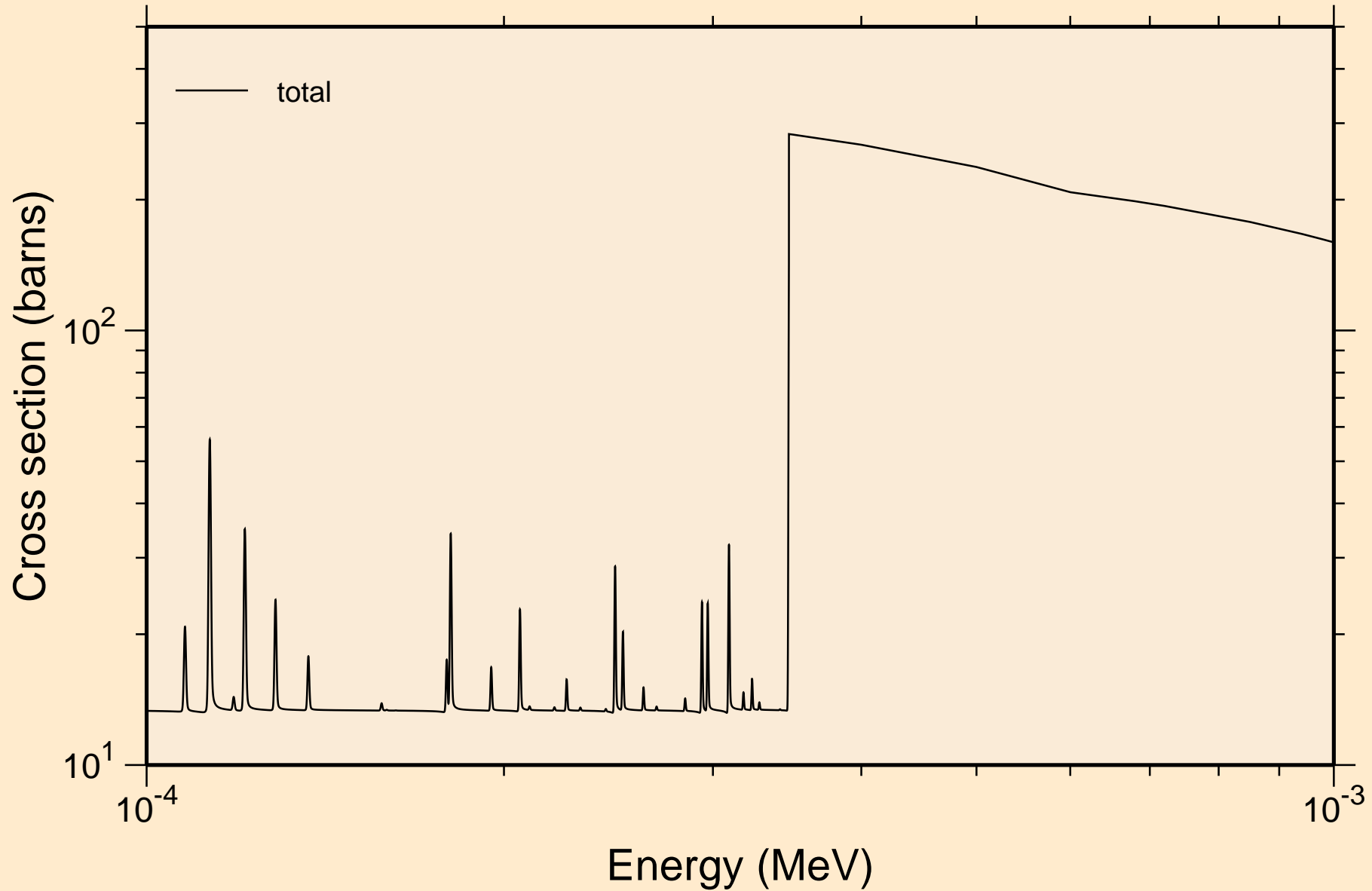
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



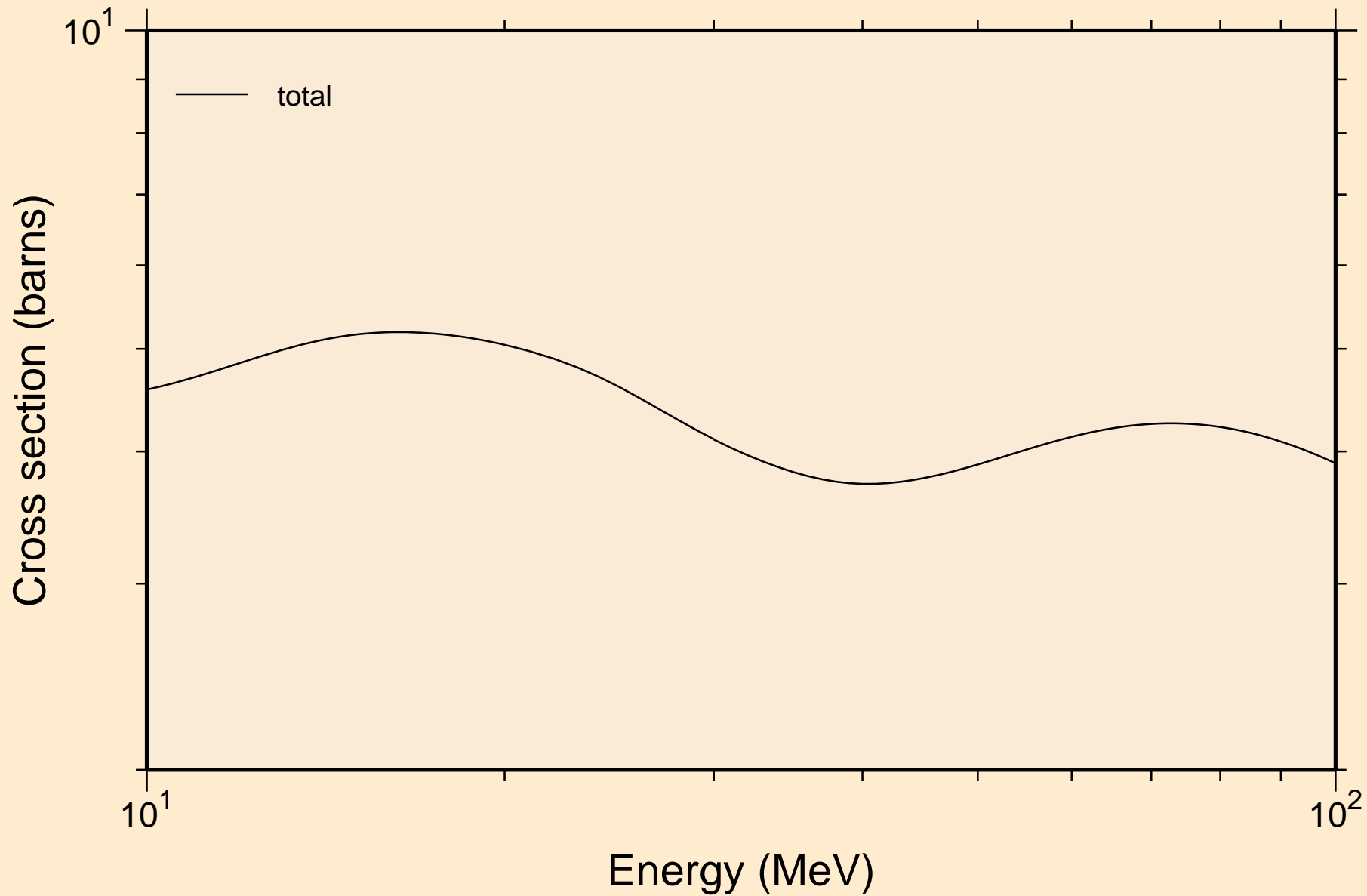
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



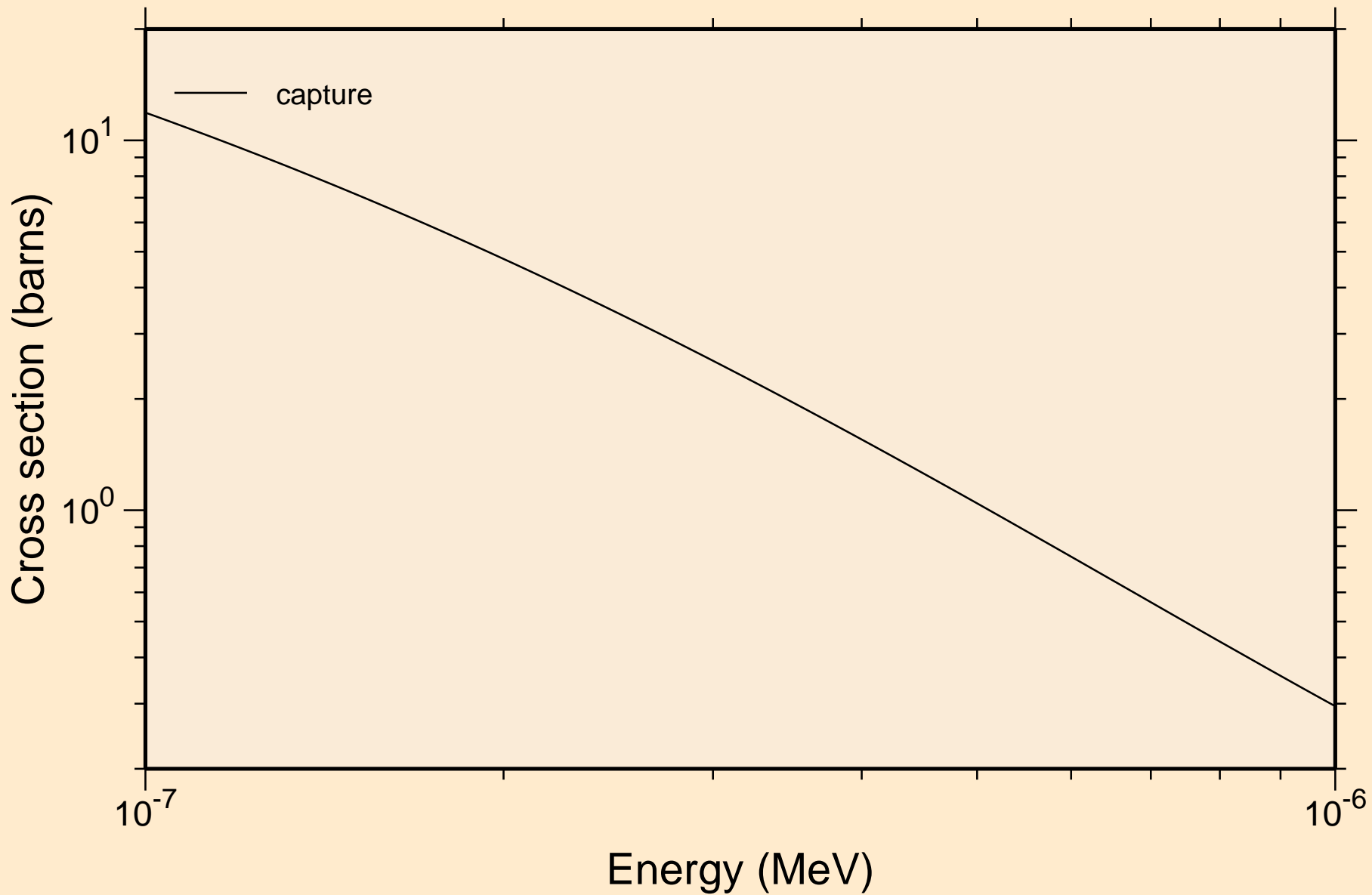
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



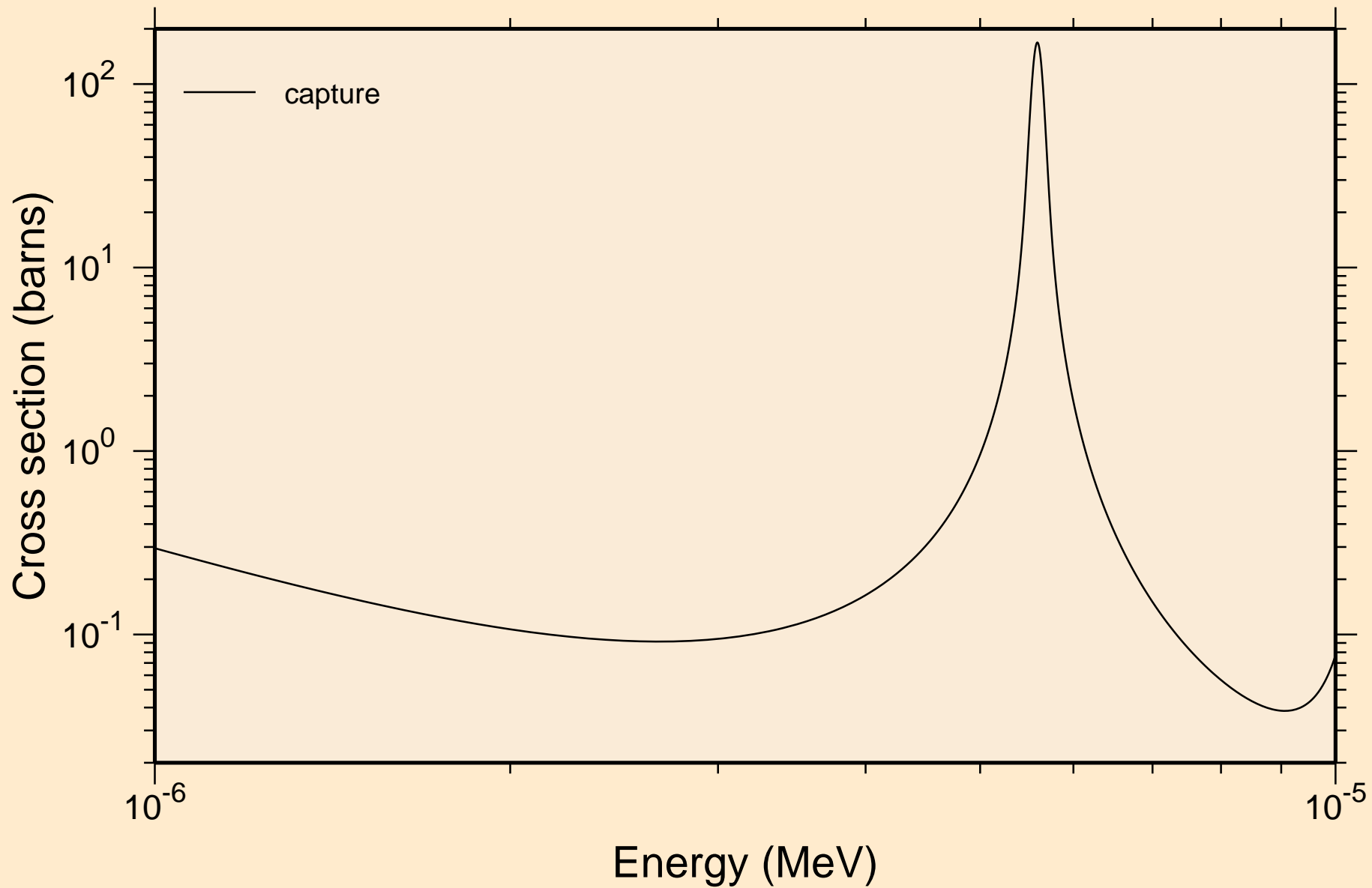
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

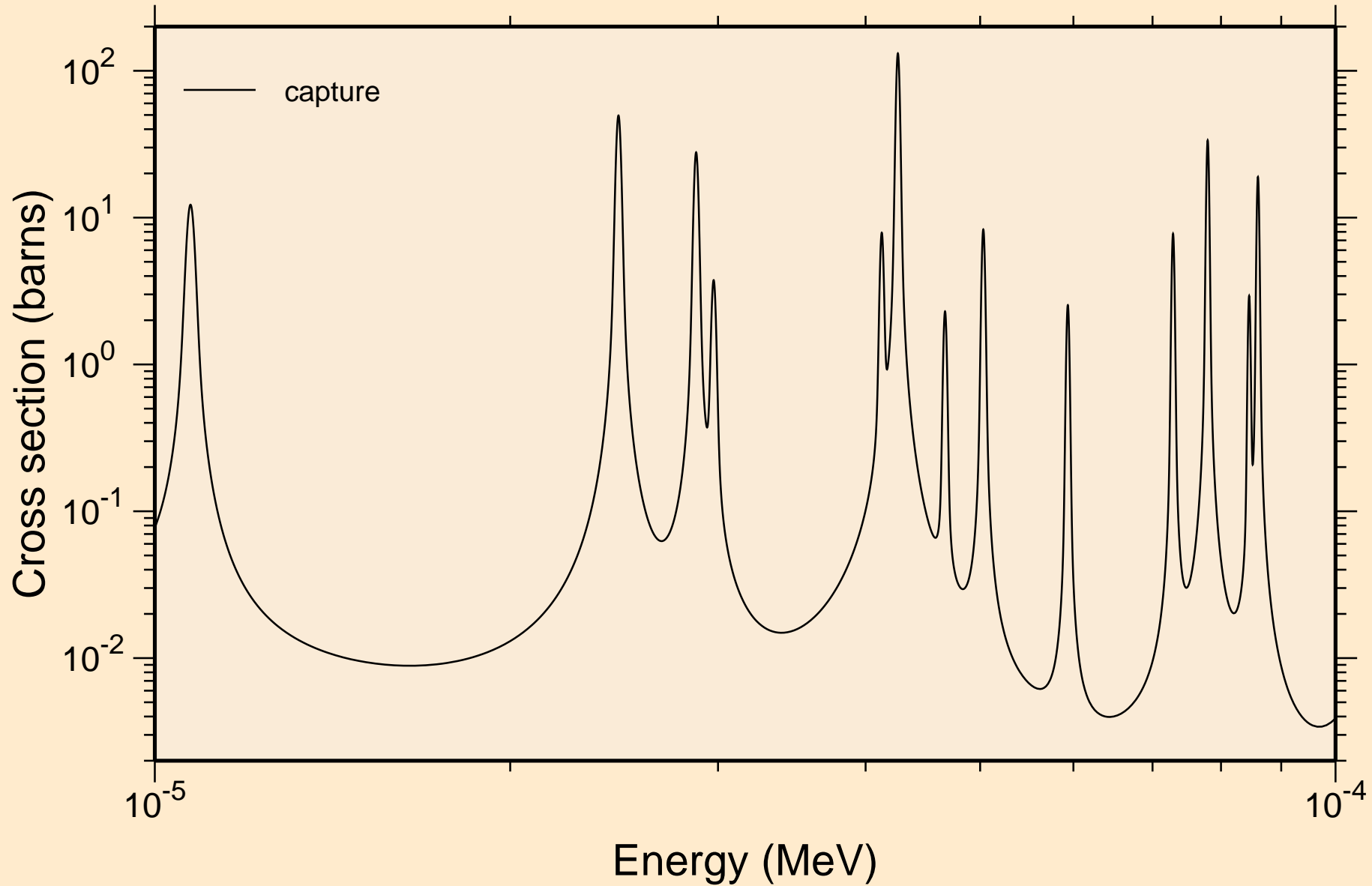


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

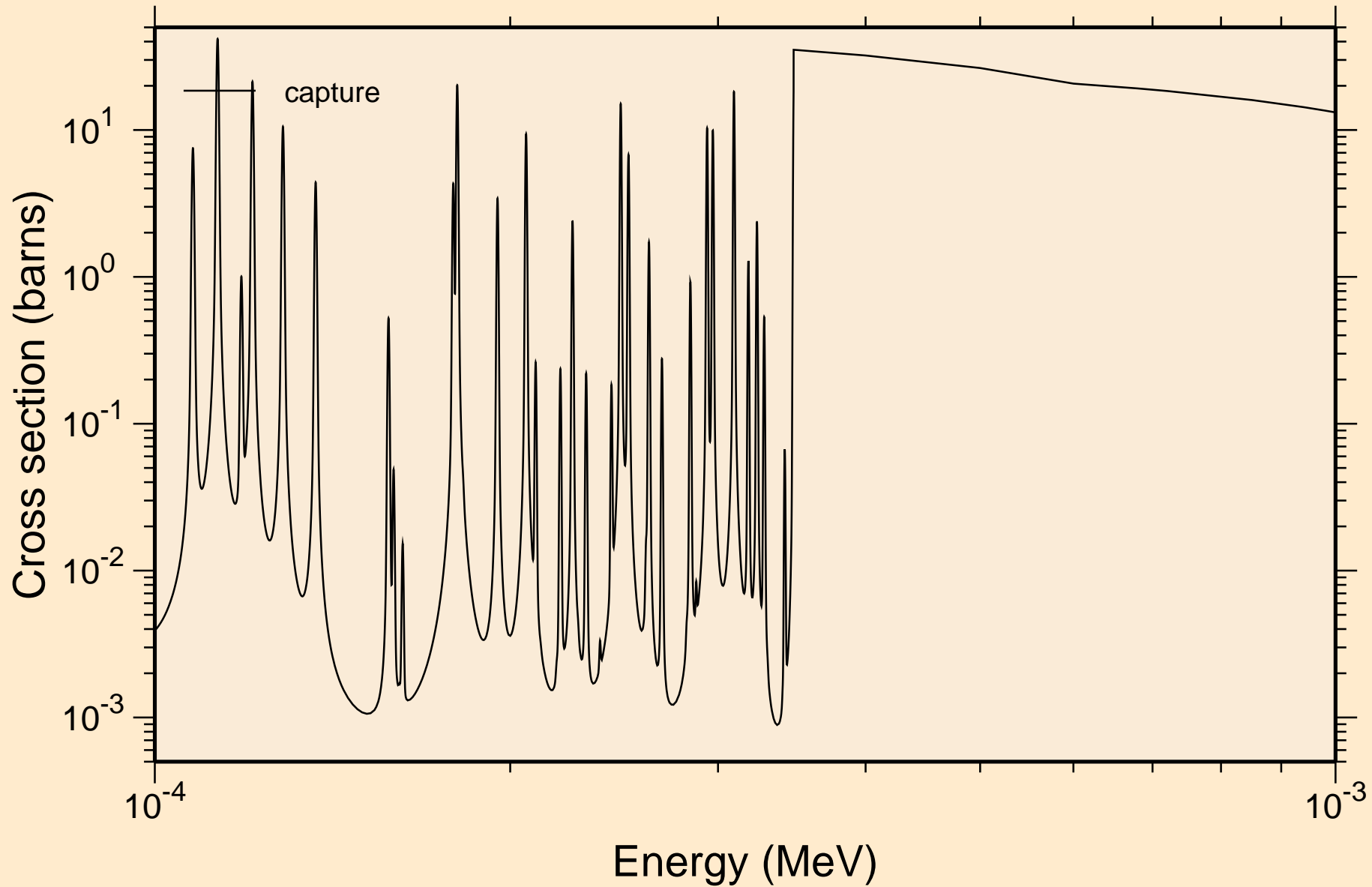




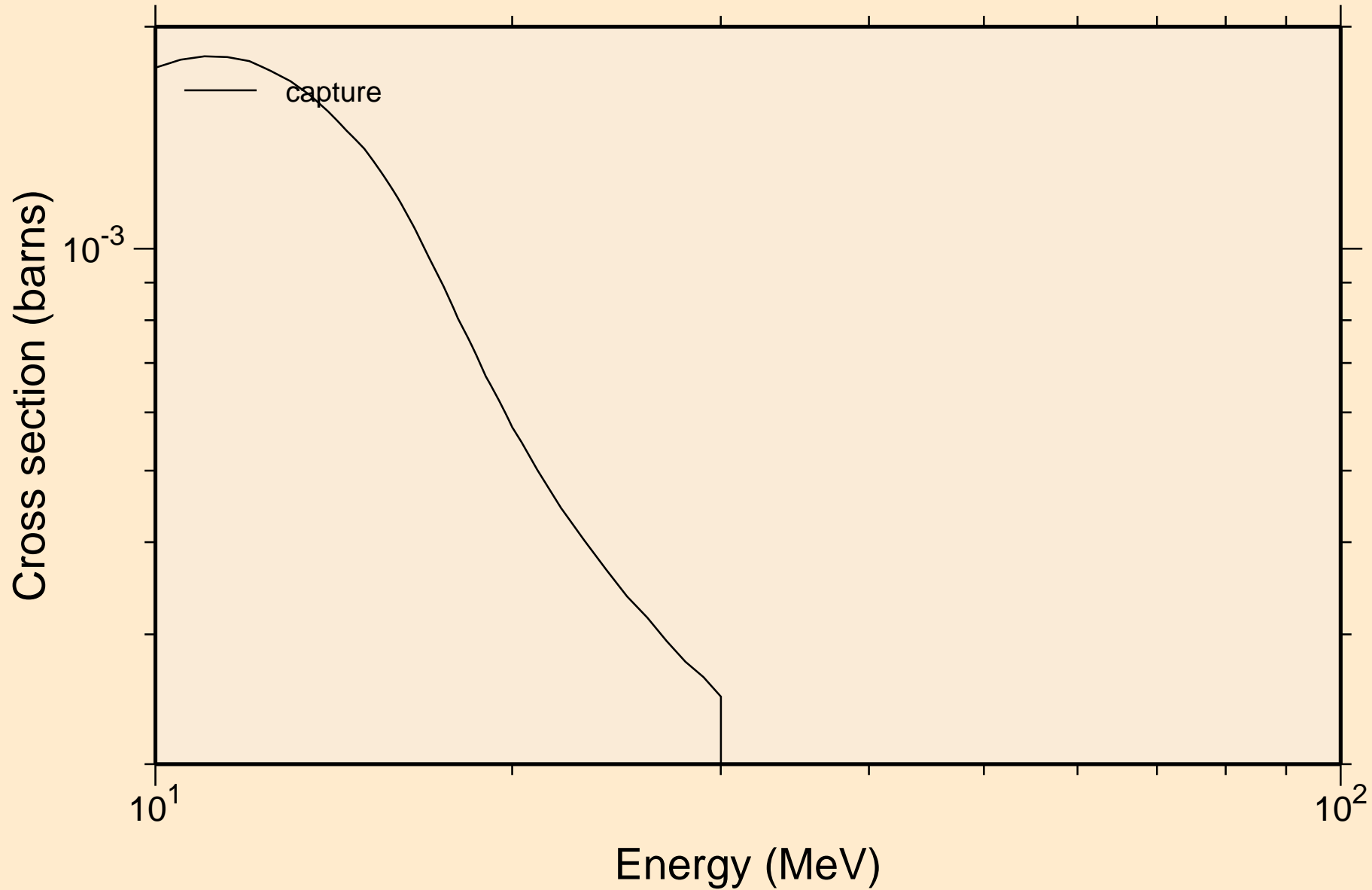
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



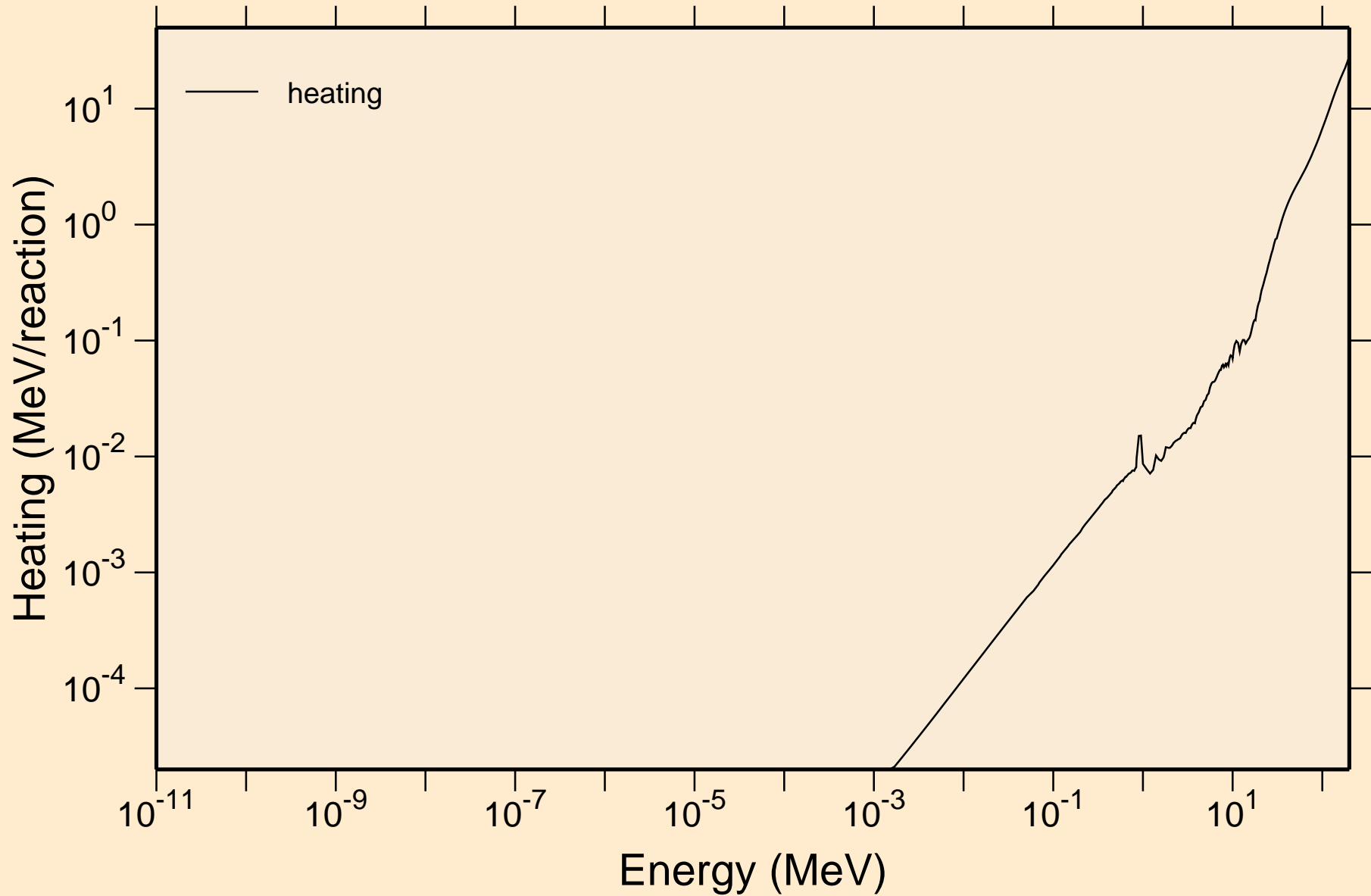
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

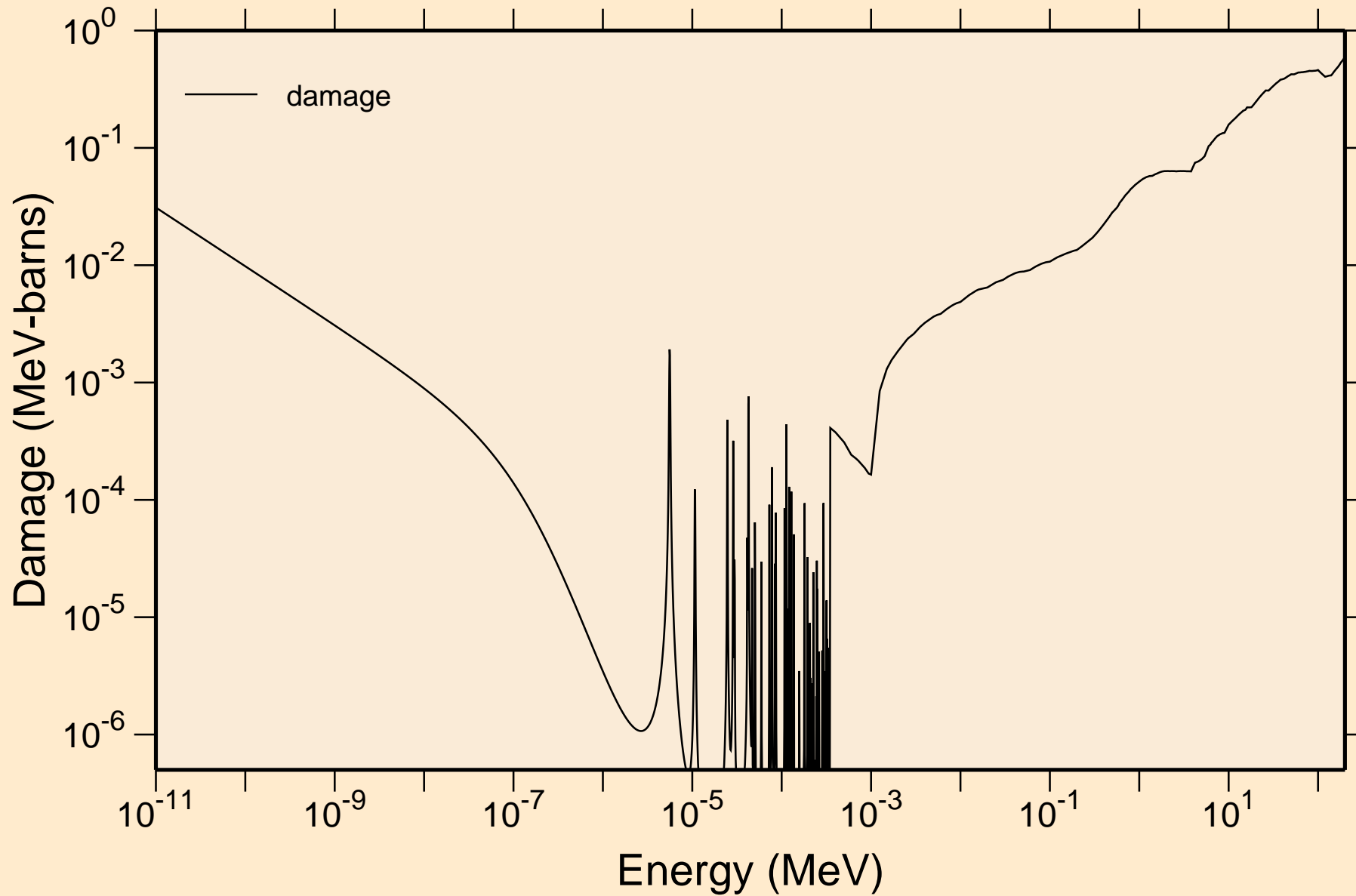


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

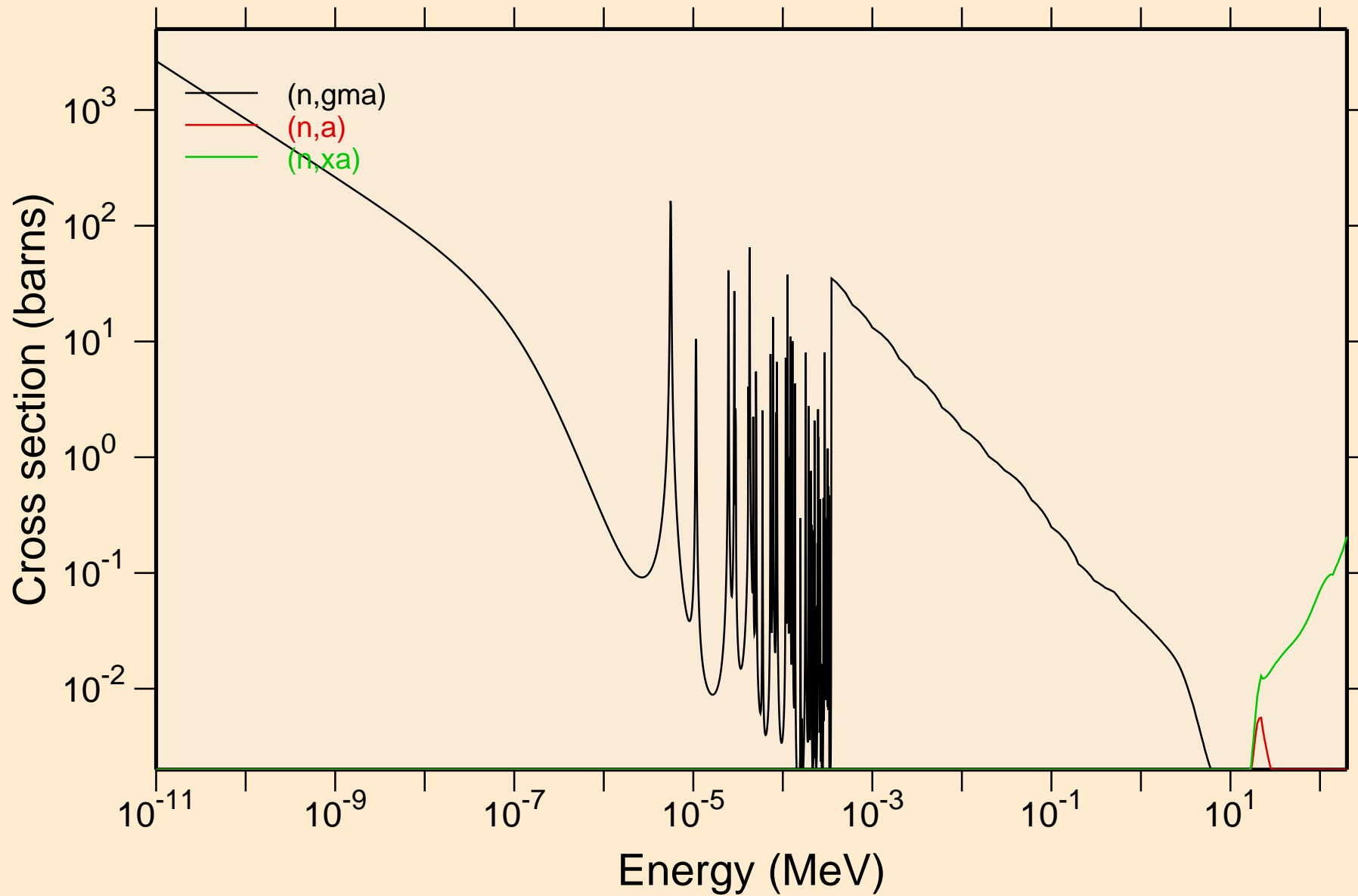


# GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

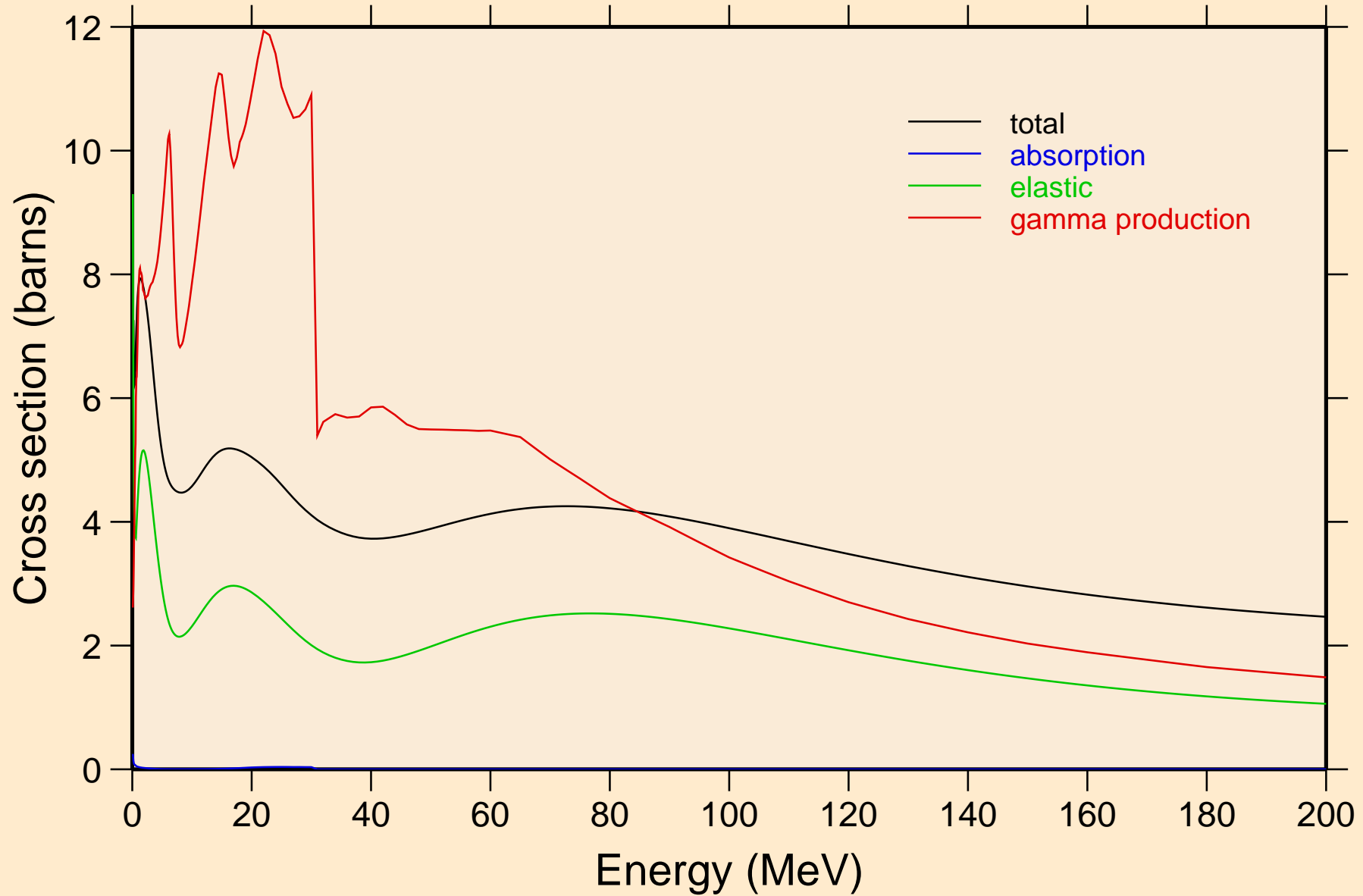
## Damage



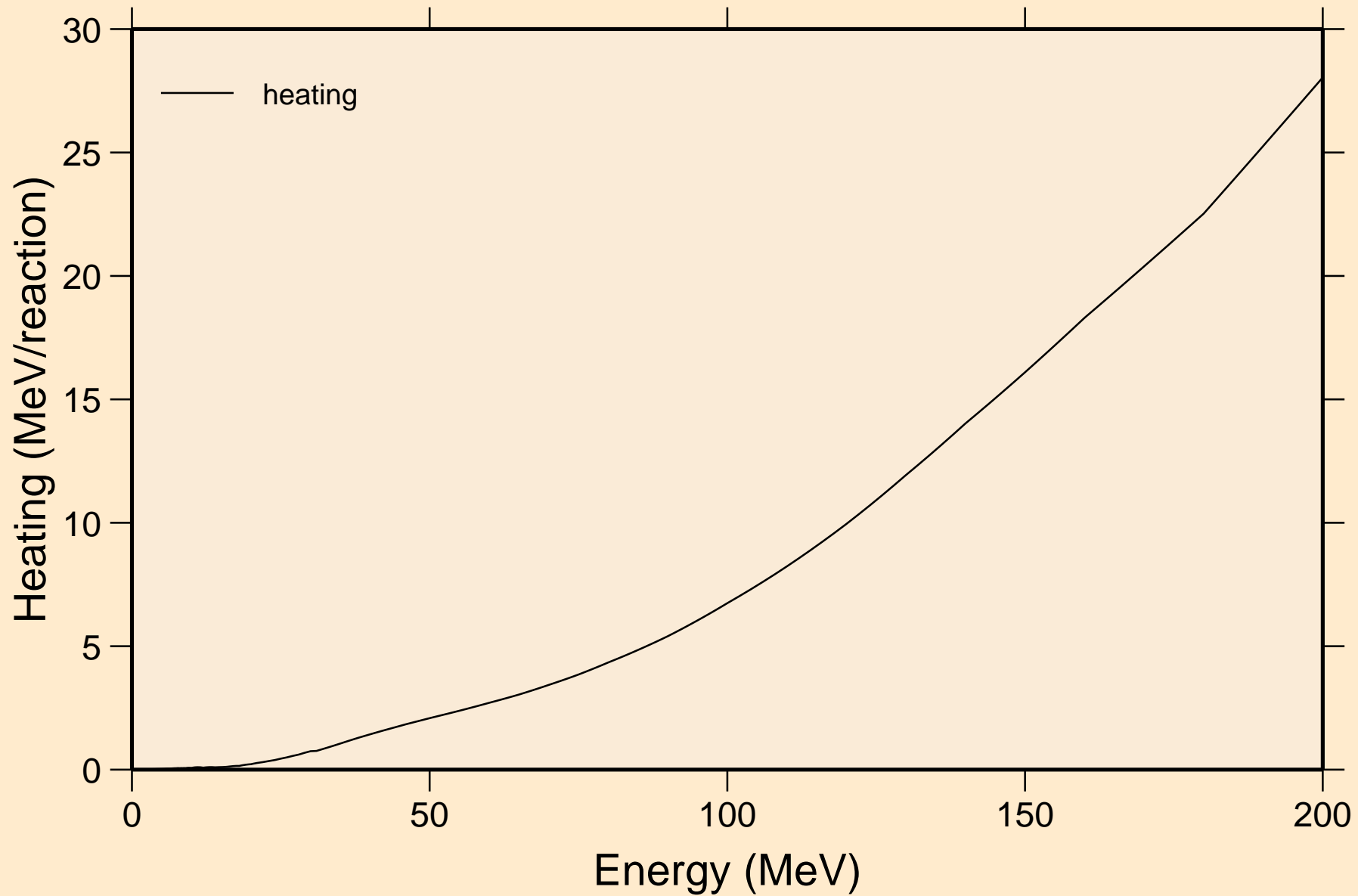
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Principal cross sections

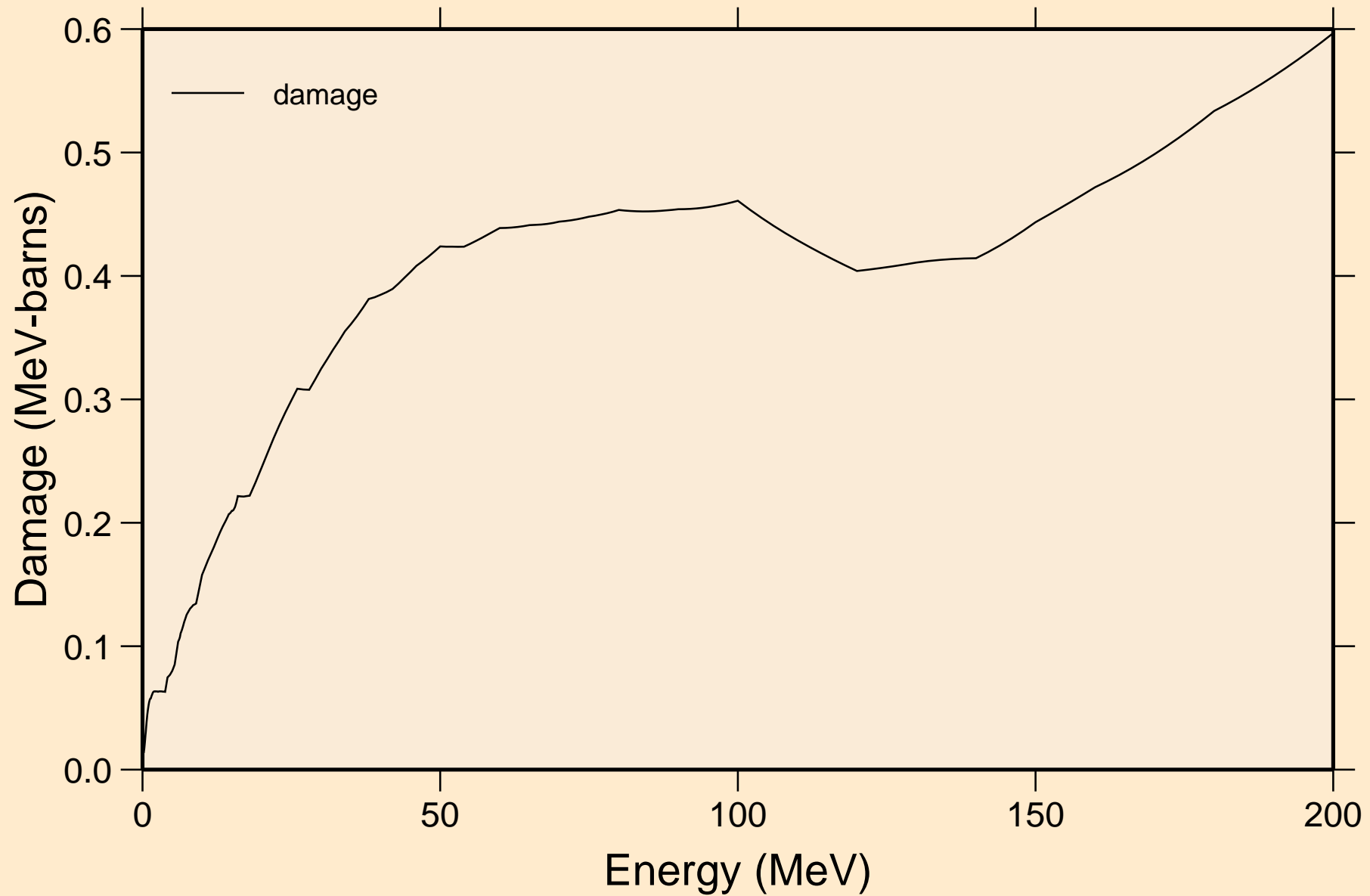


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

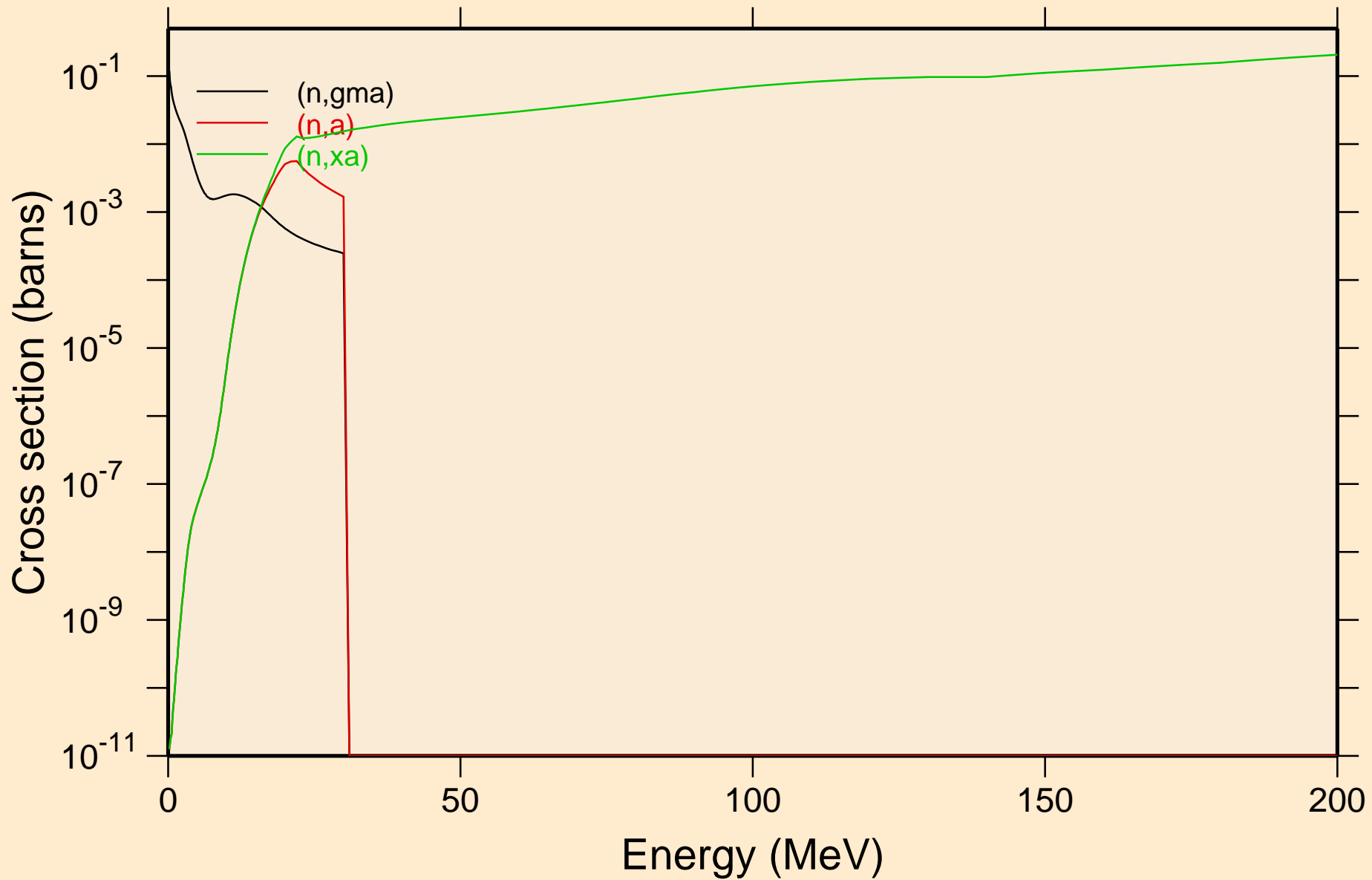




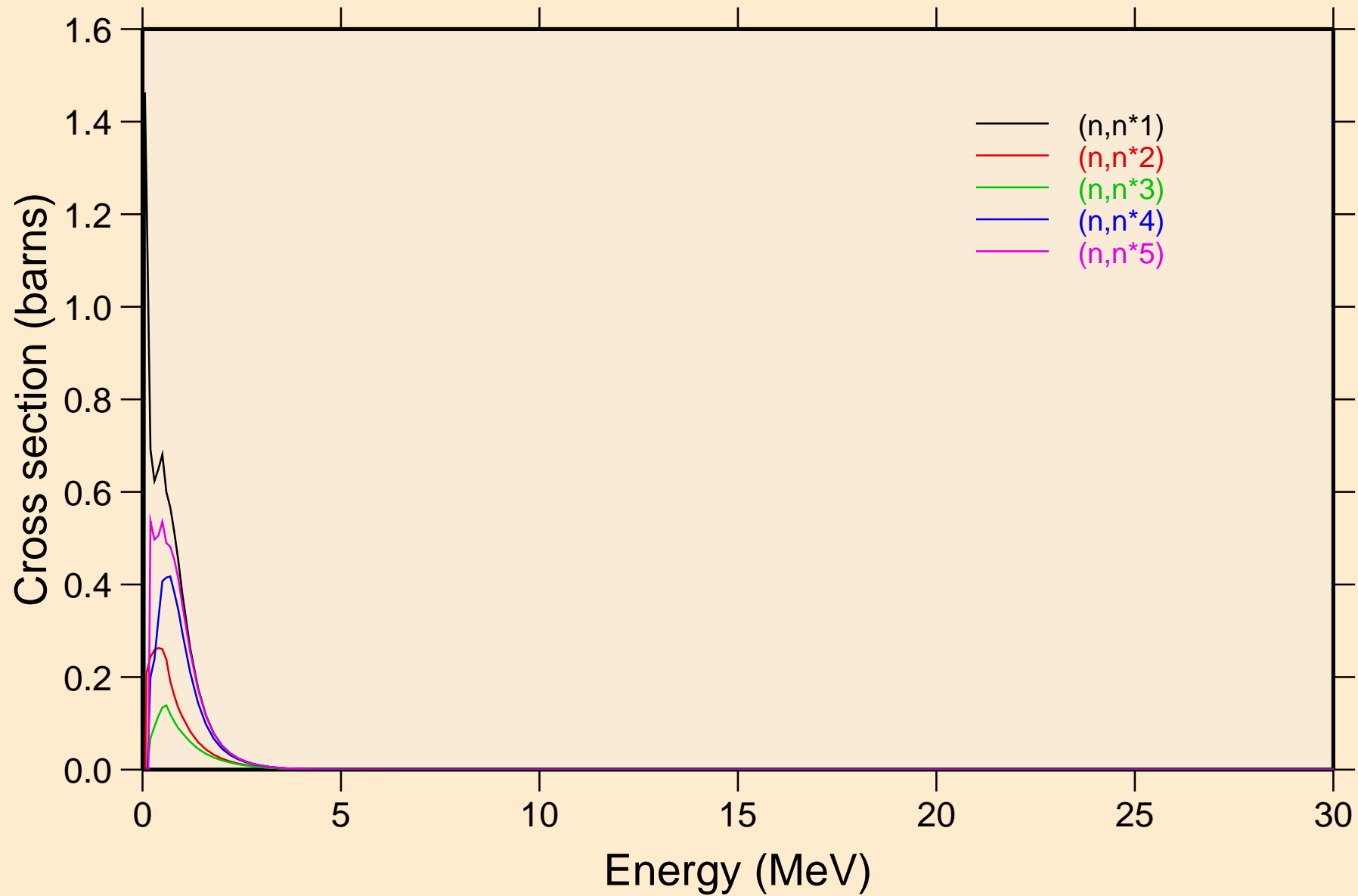
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



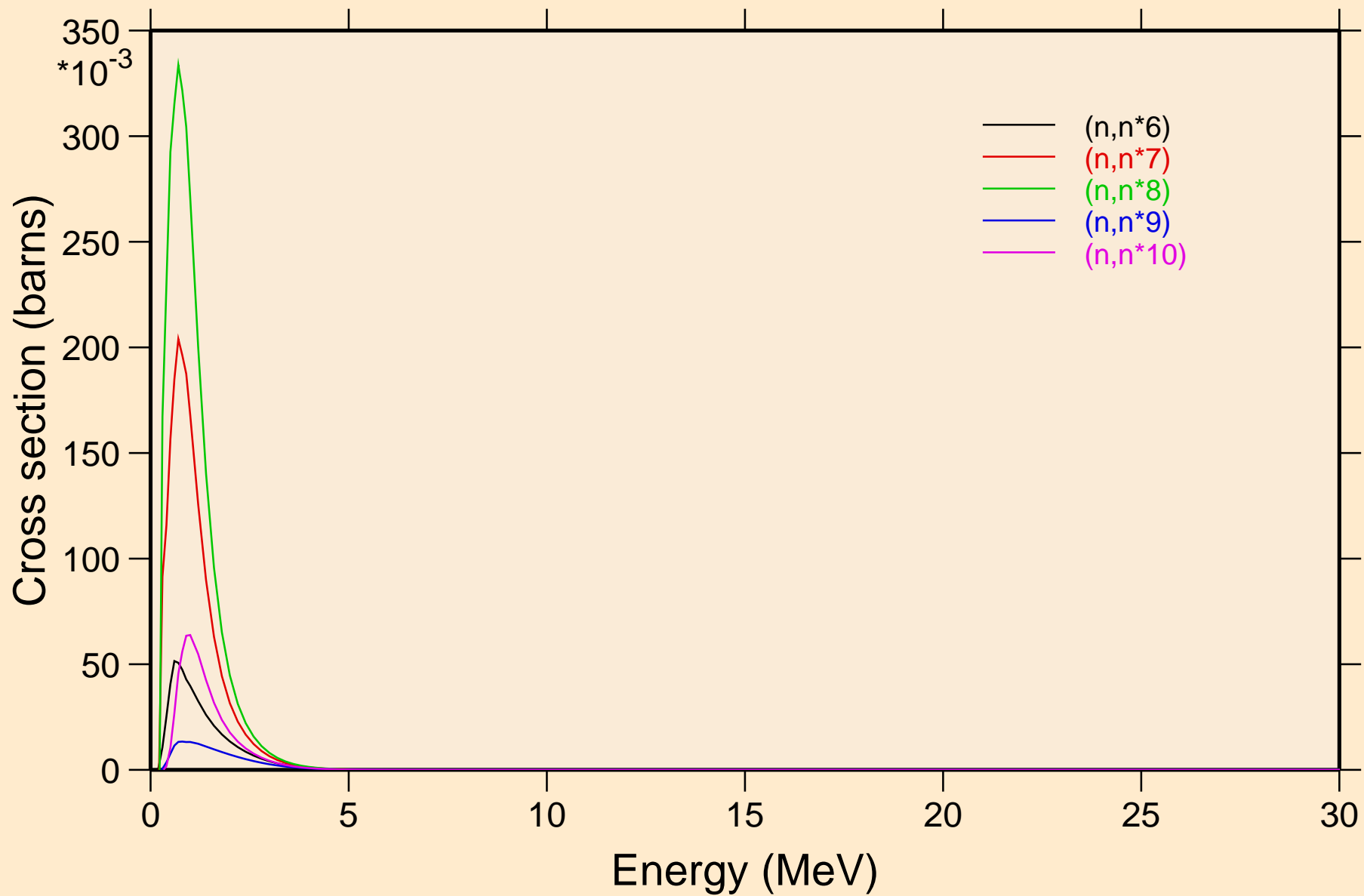
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



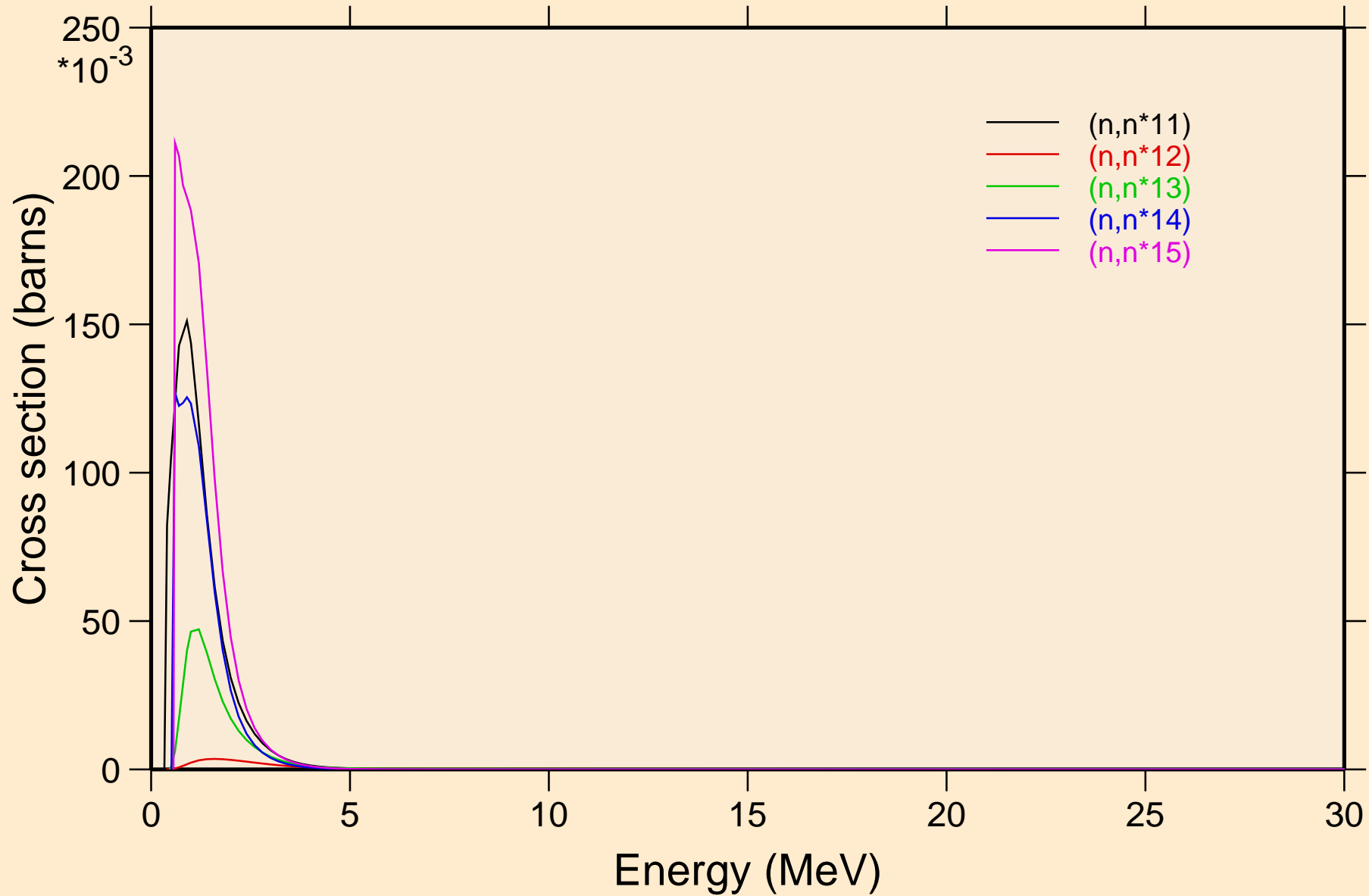
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



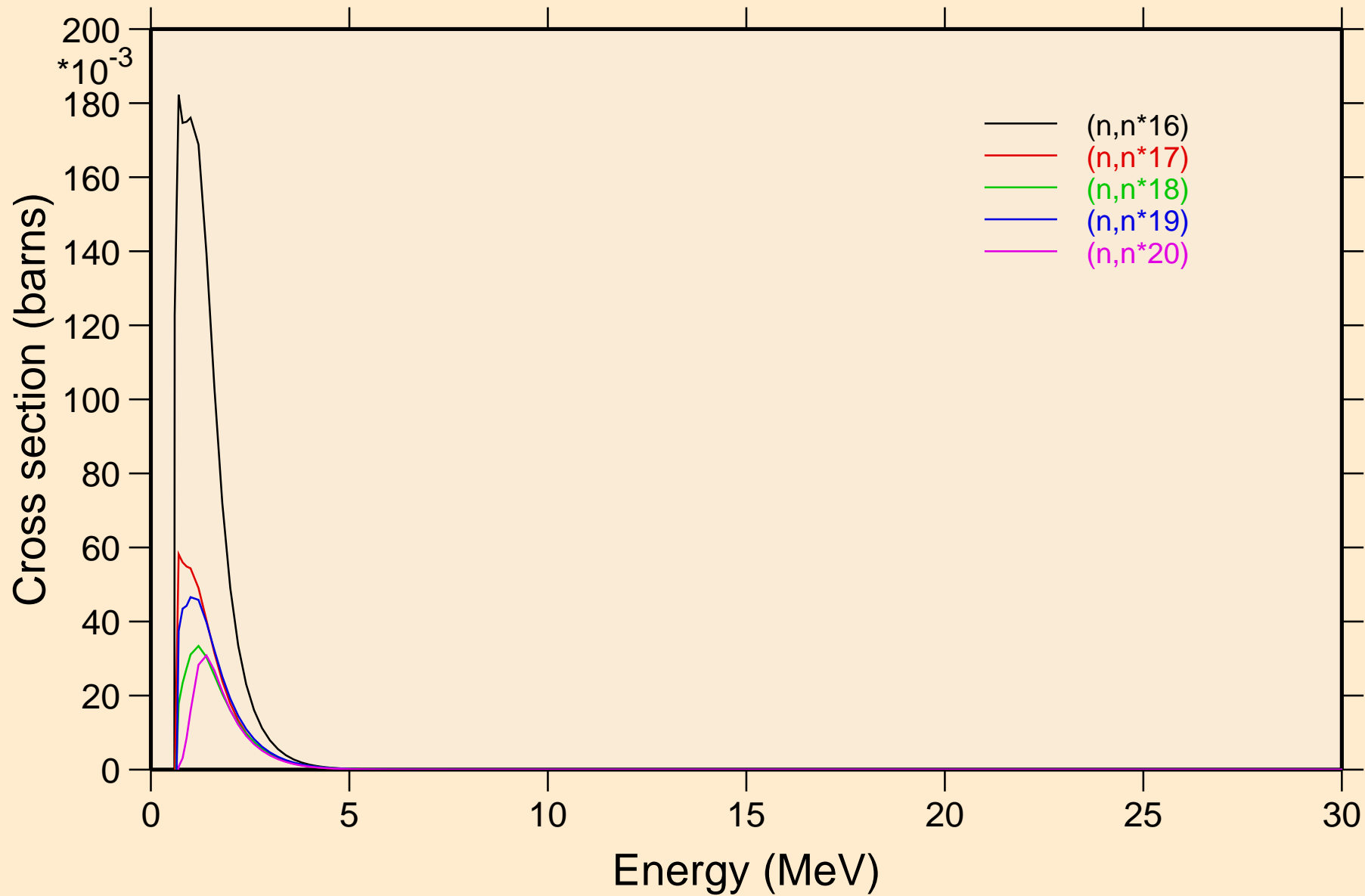
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



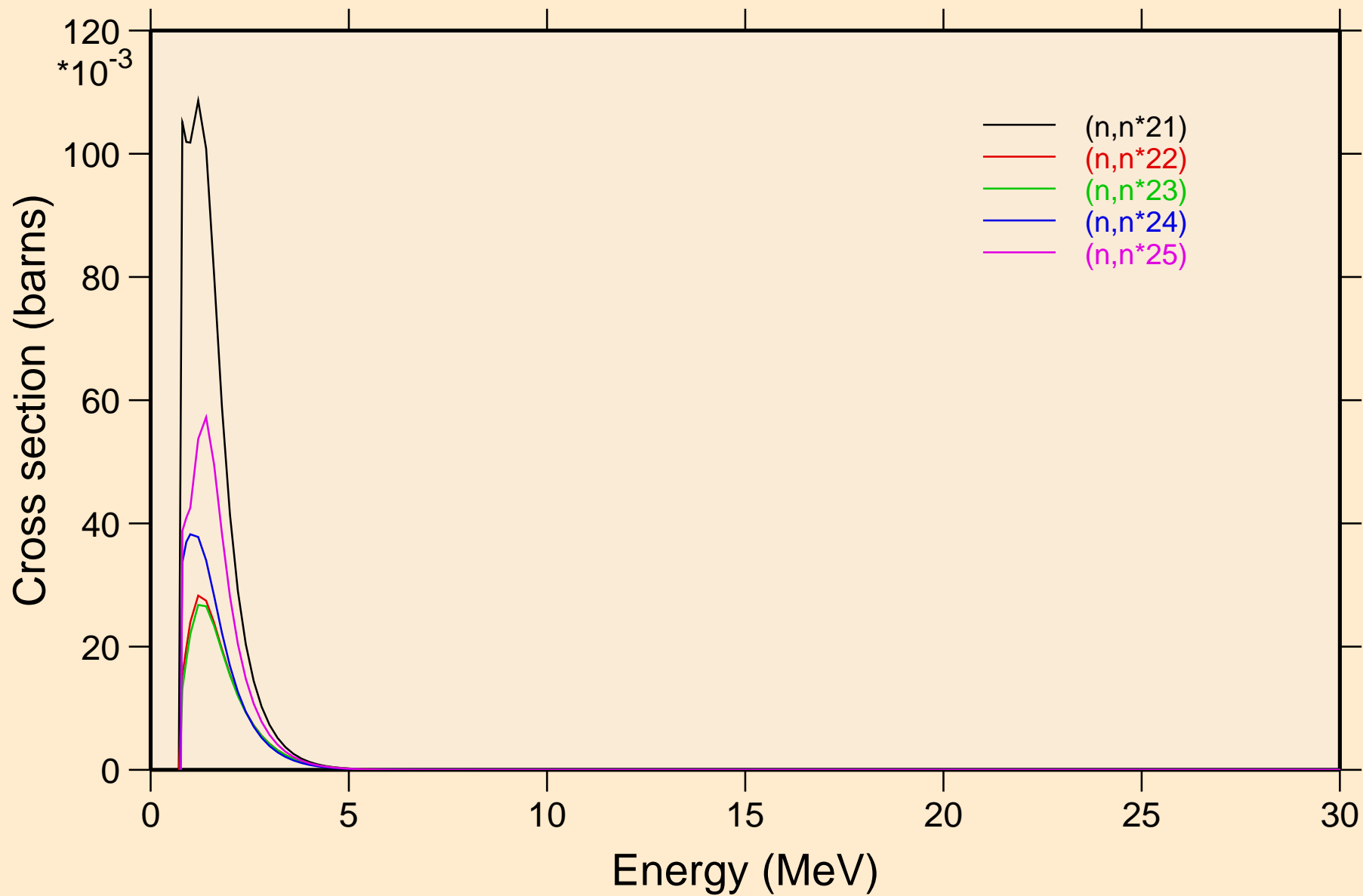
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



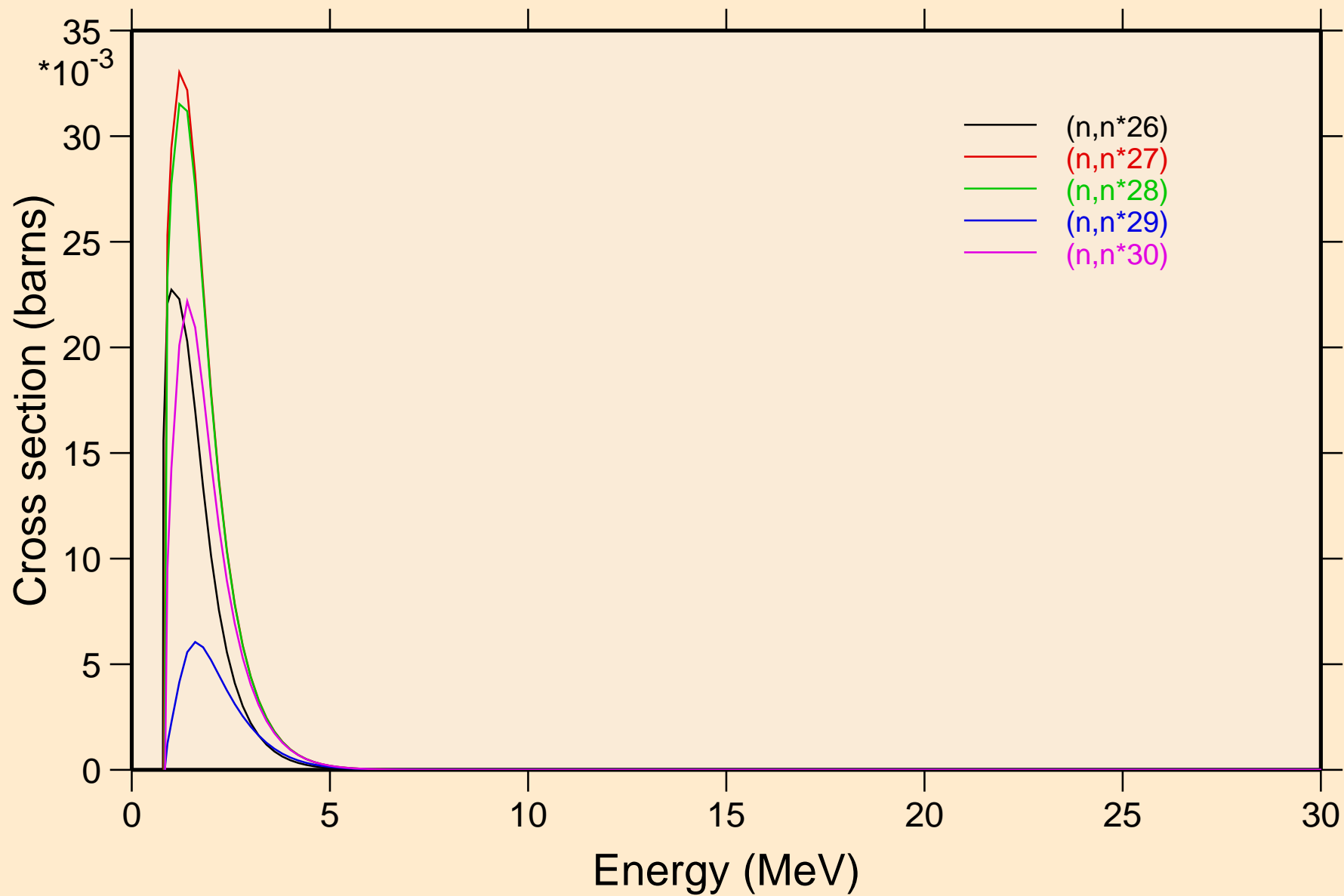
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

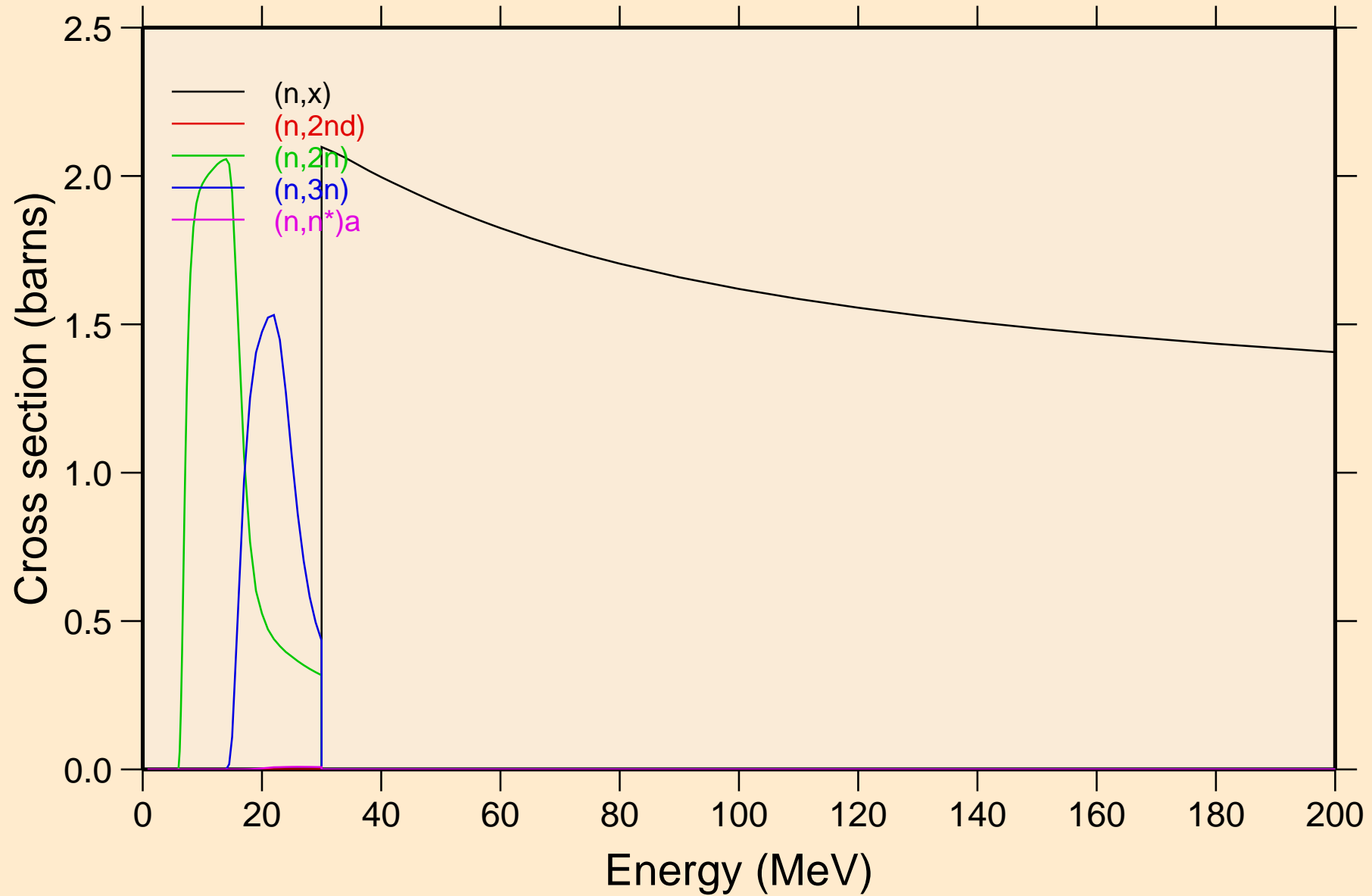


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



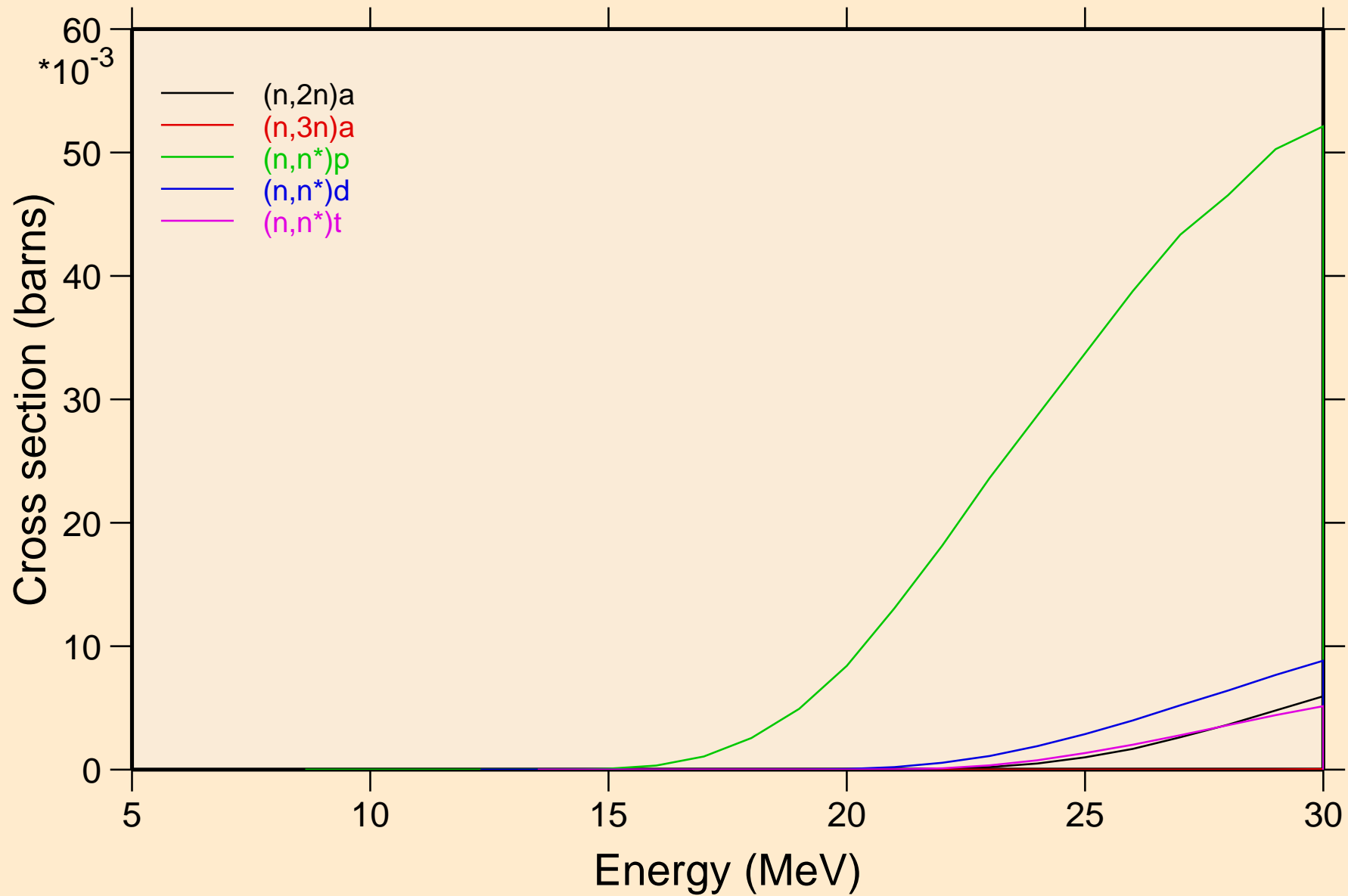


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

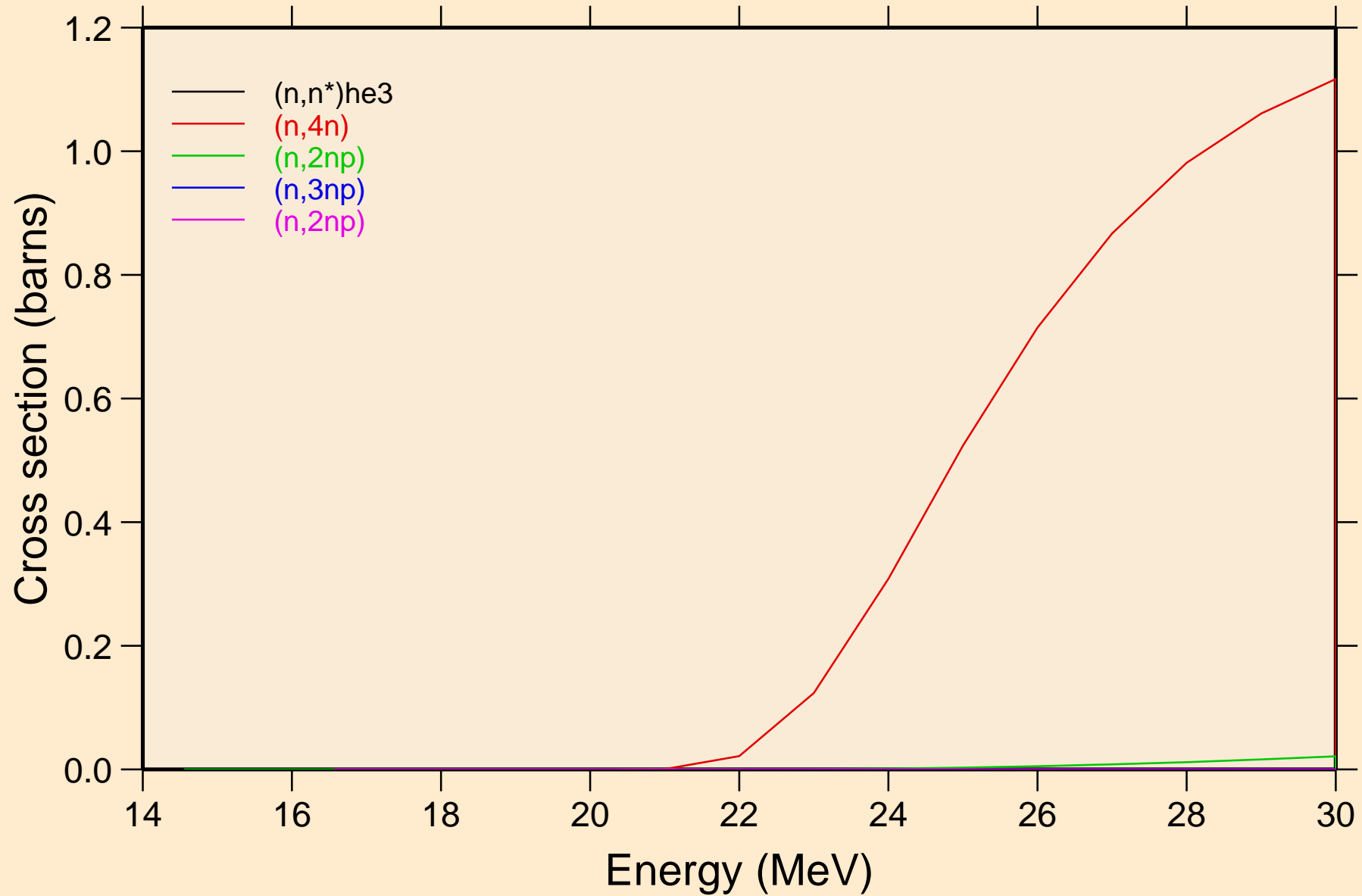


# GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

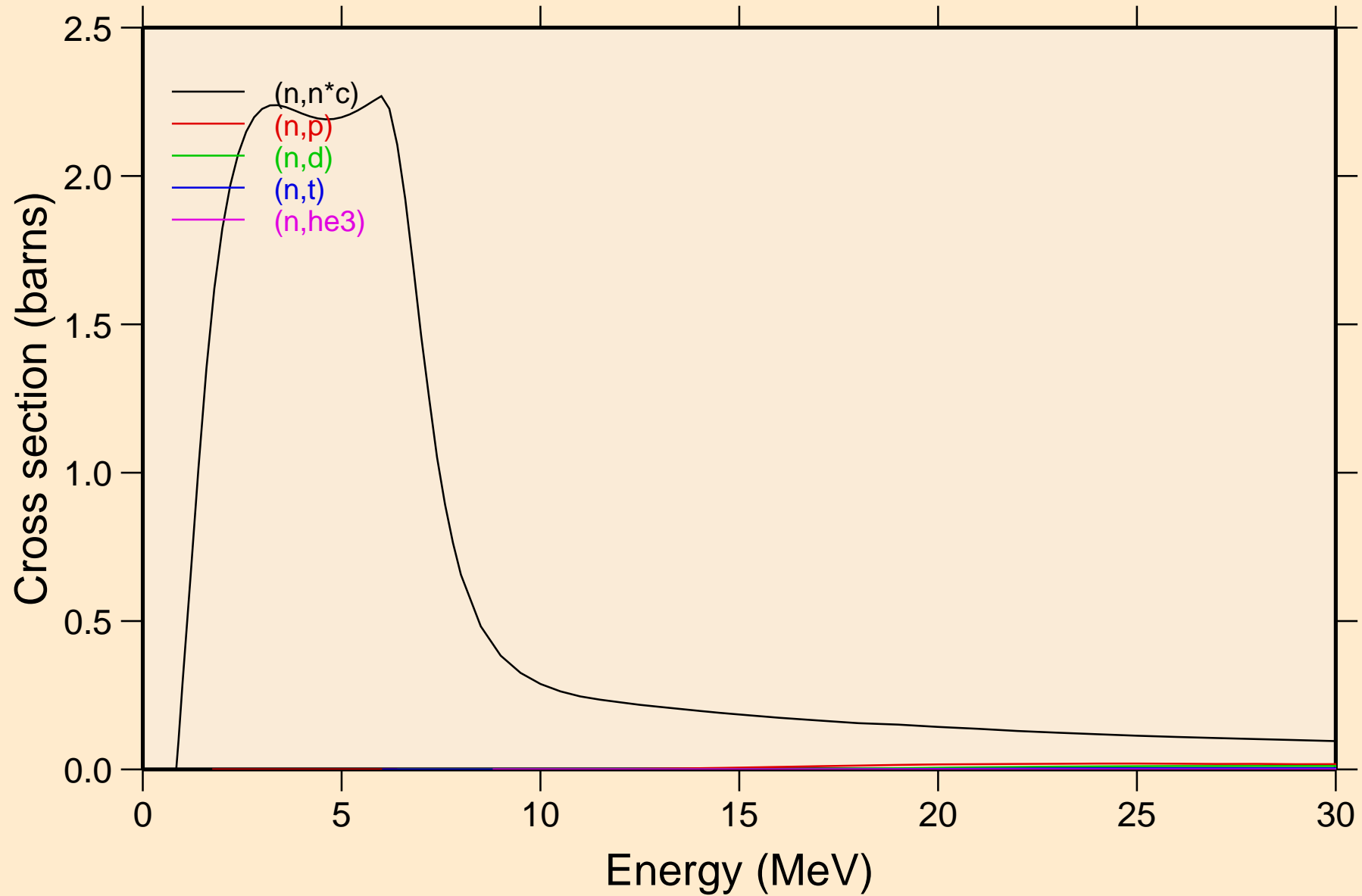
## Threshold reactions



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

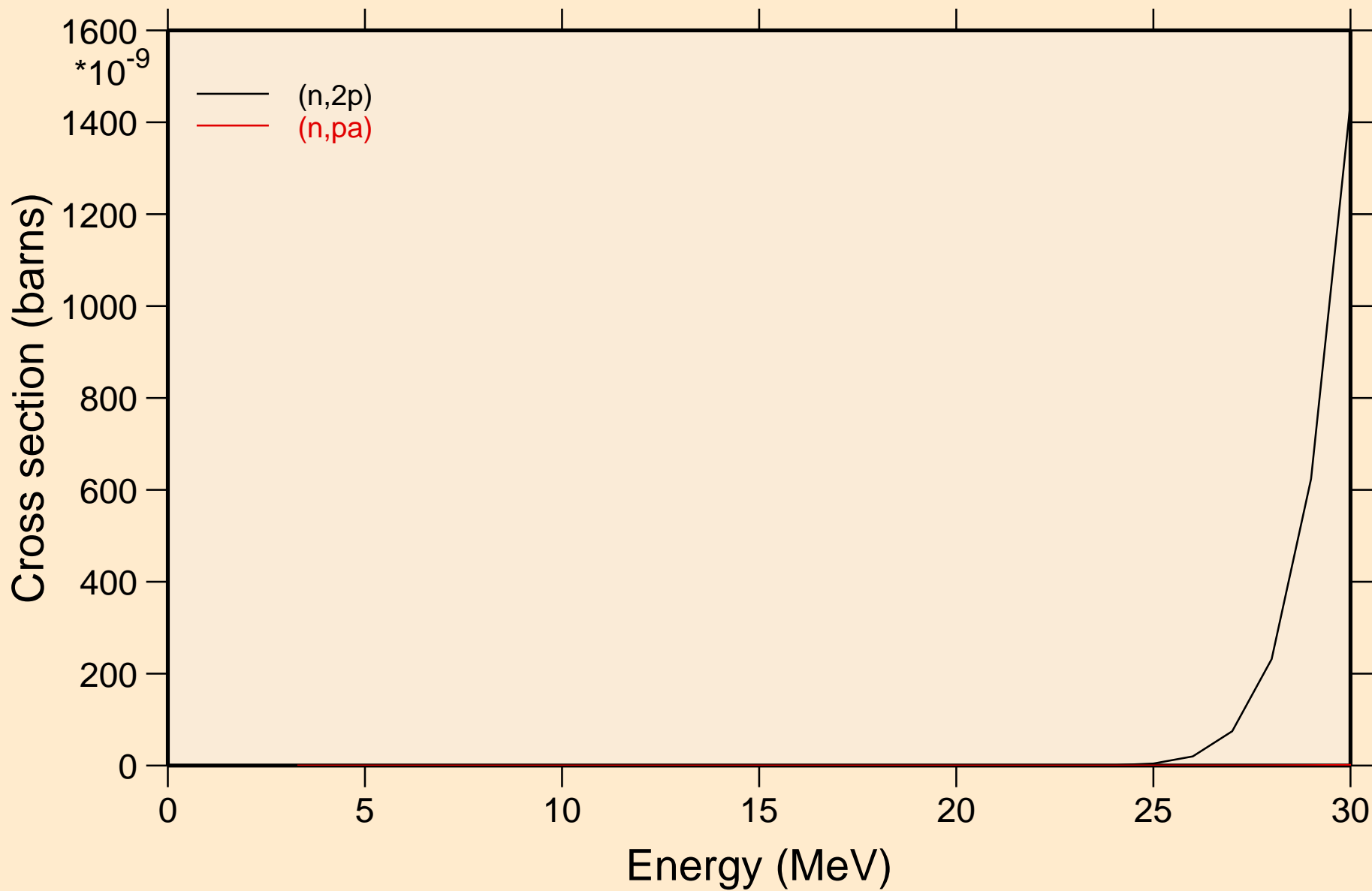


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

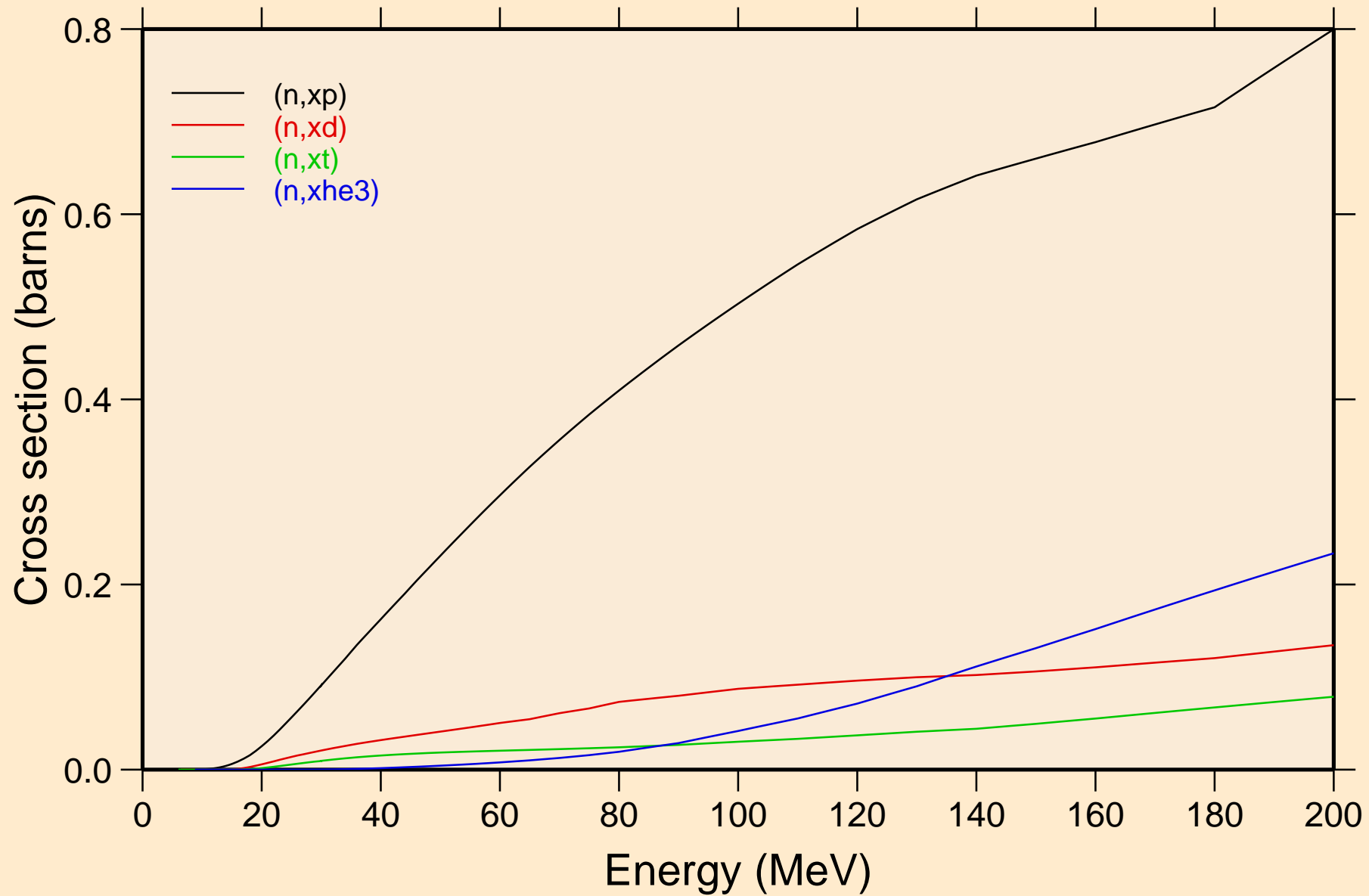


# GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

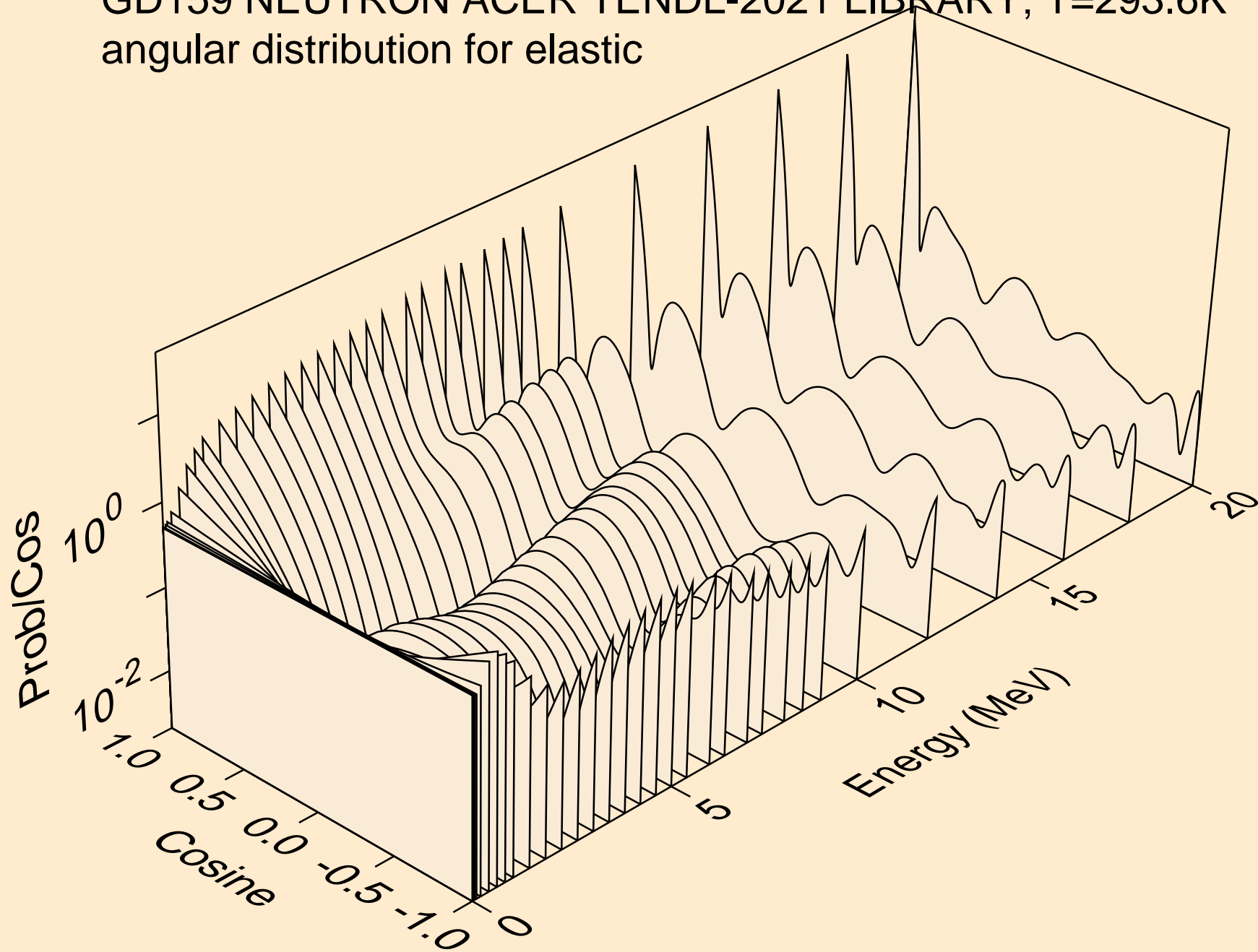
## Threshold reactions



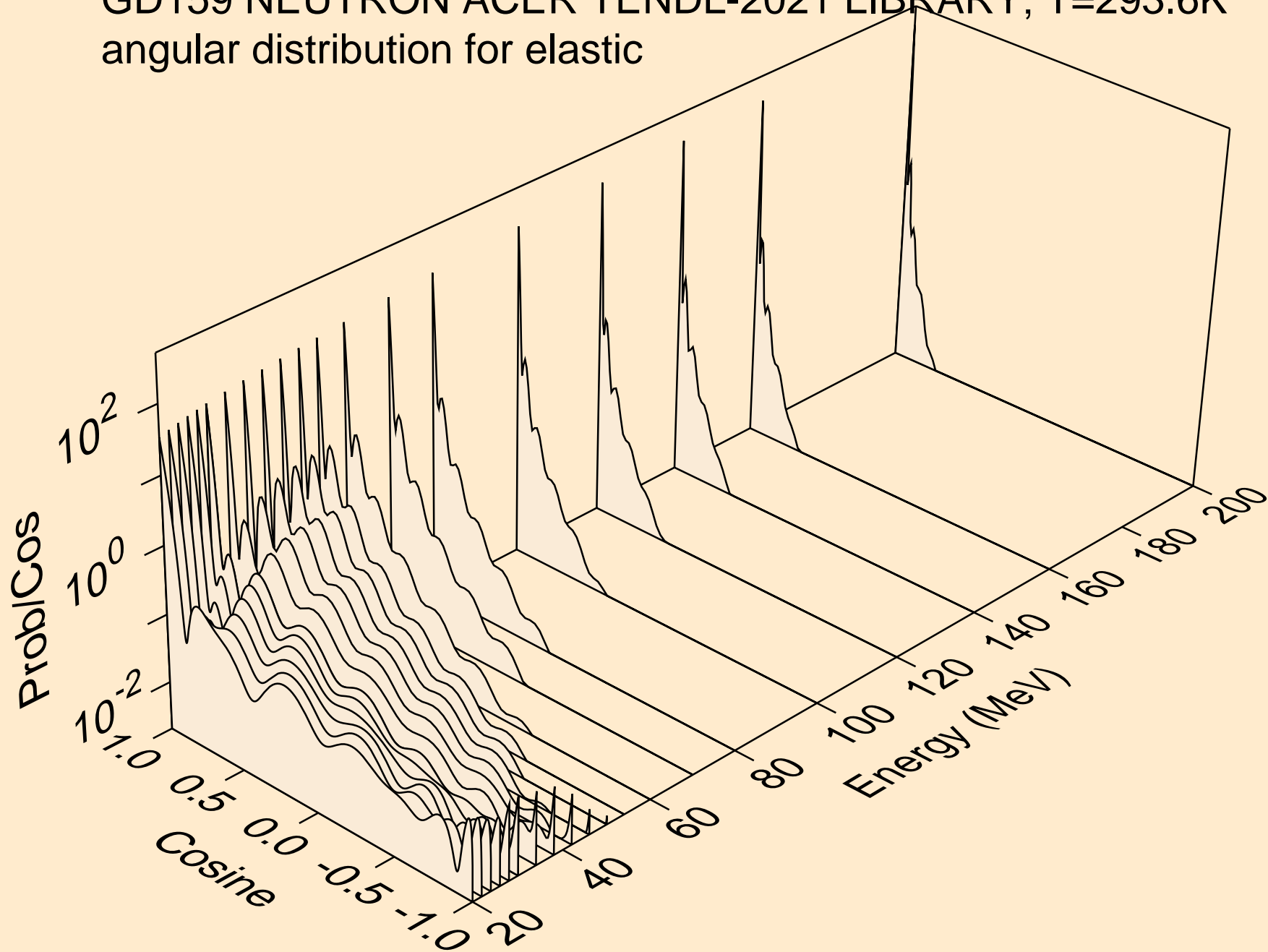
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

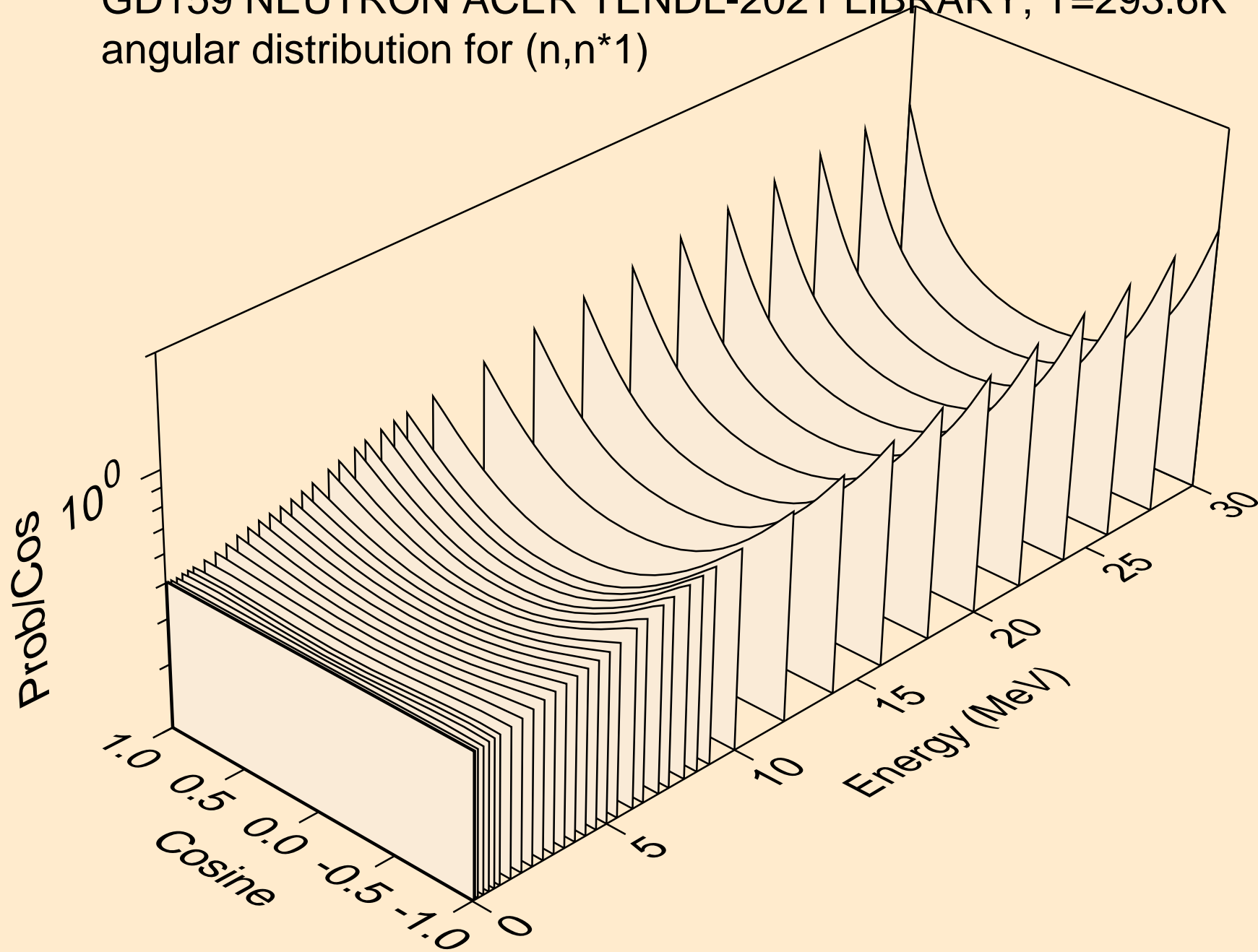


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

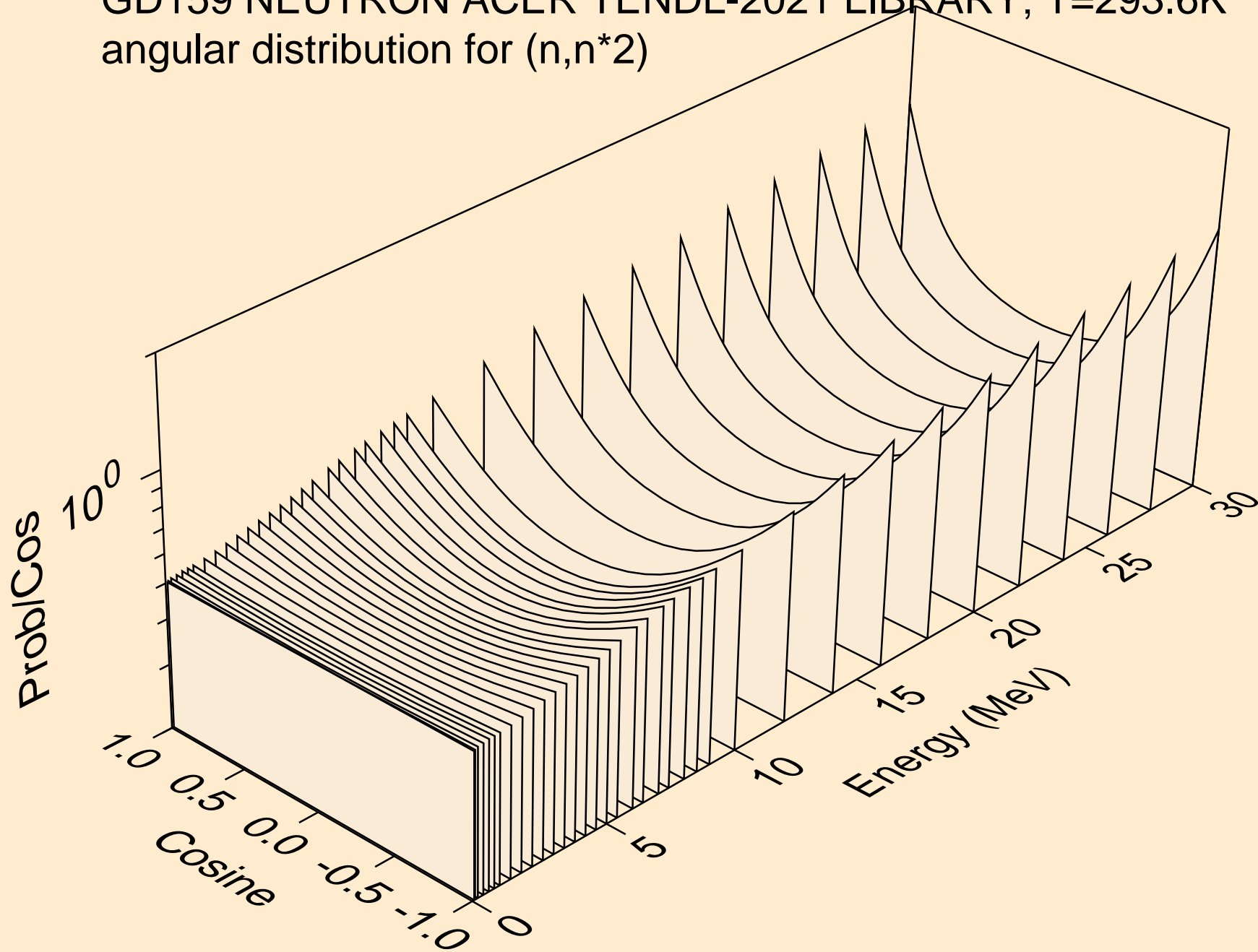




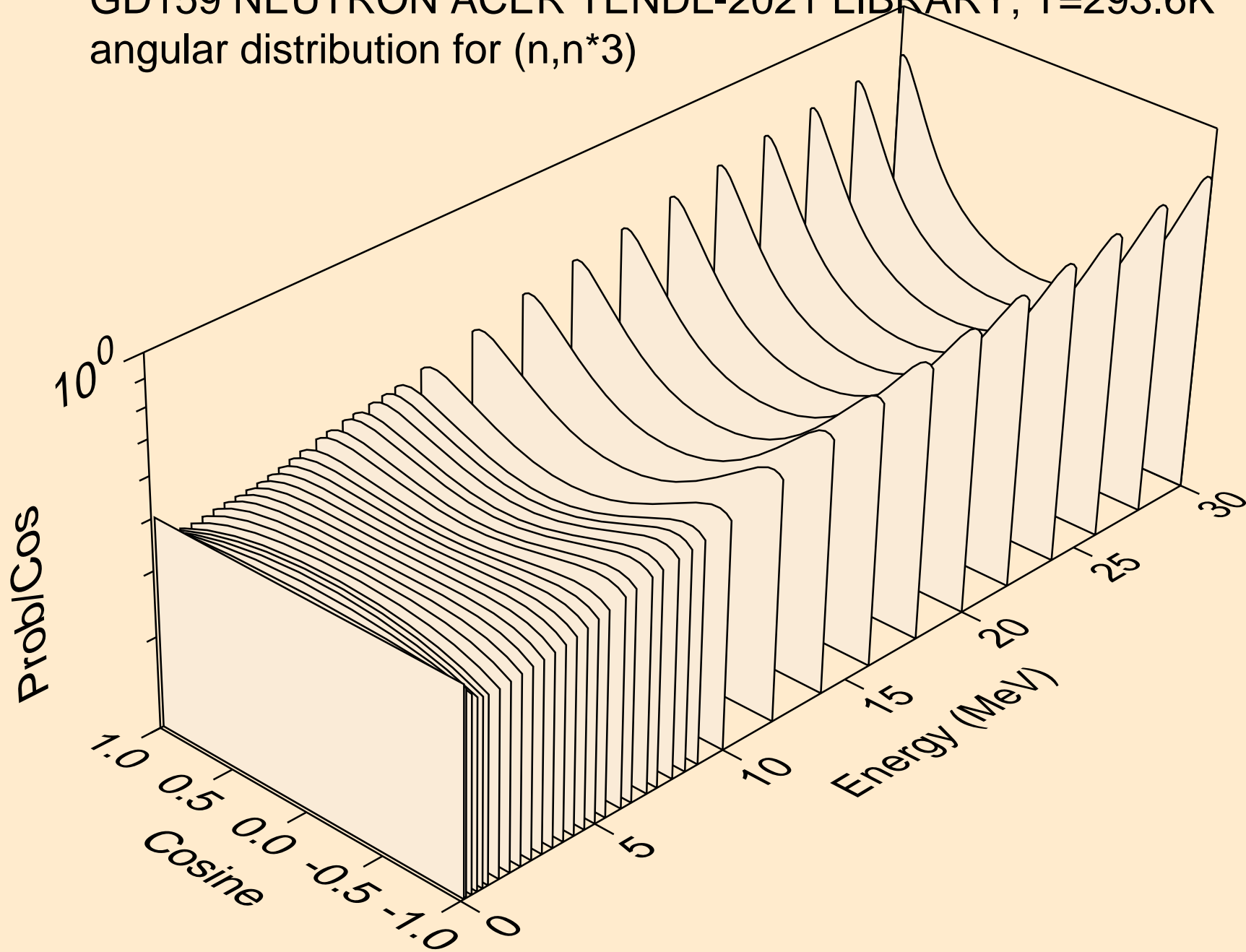
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



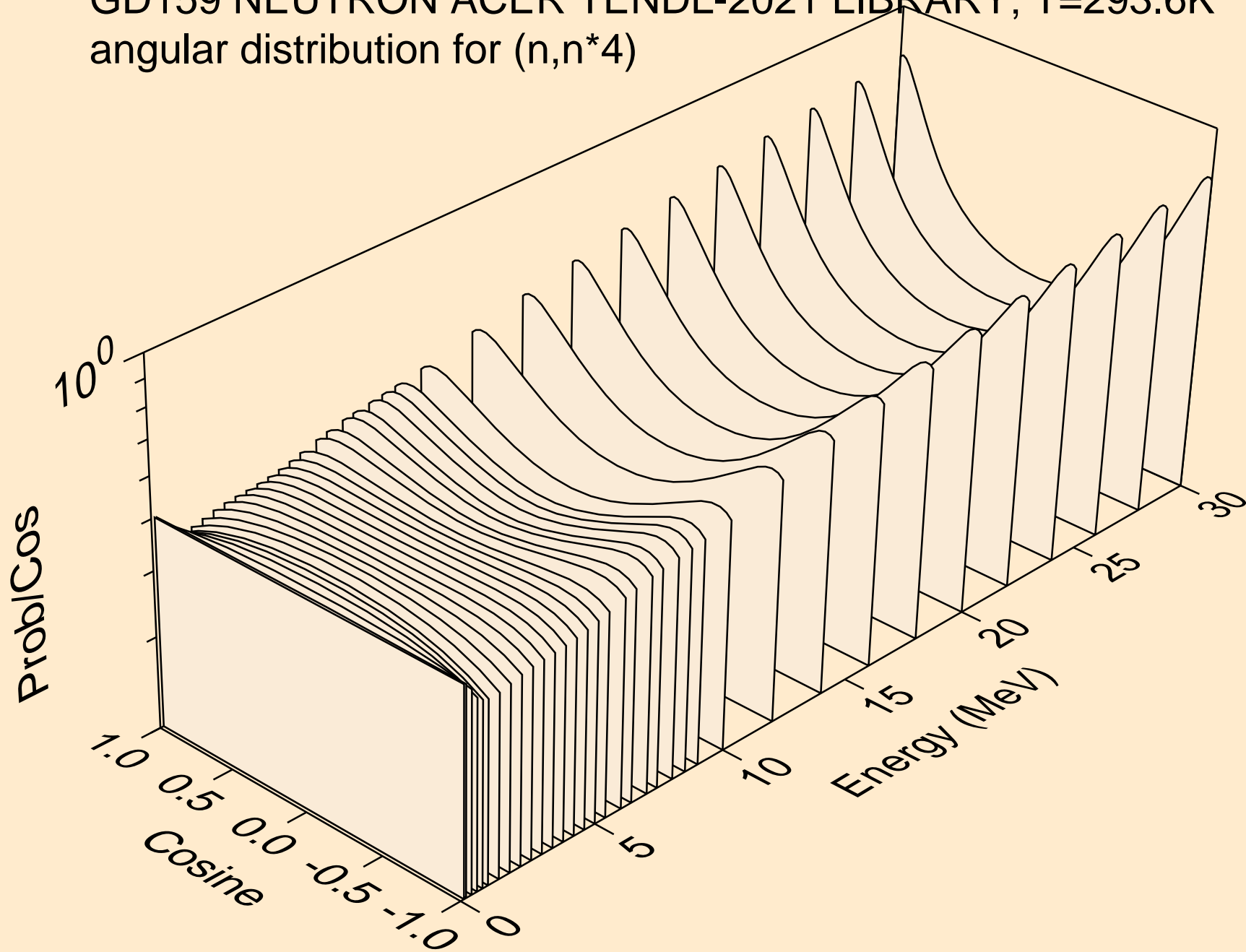
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



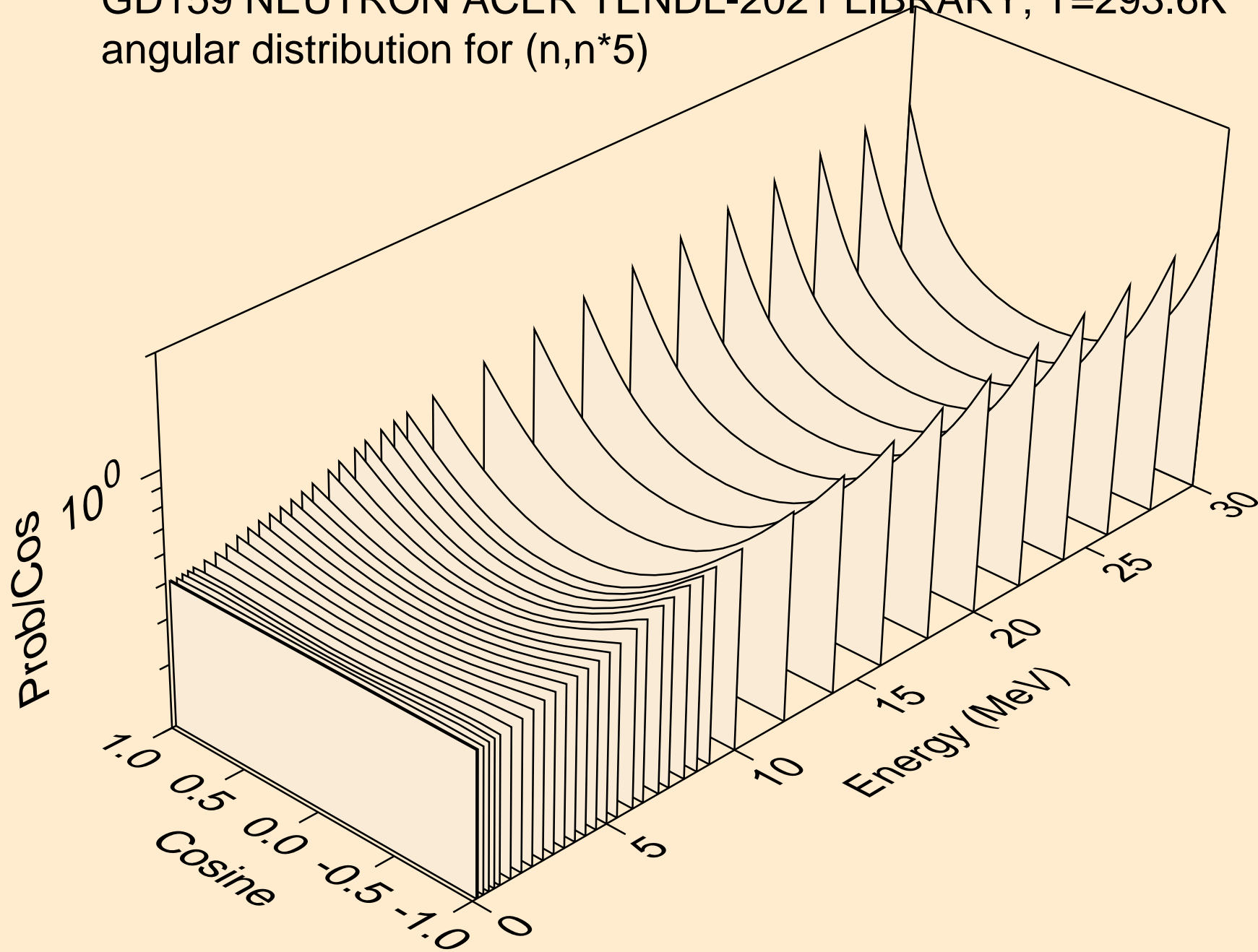
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



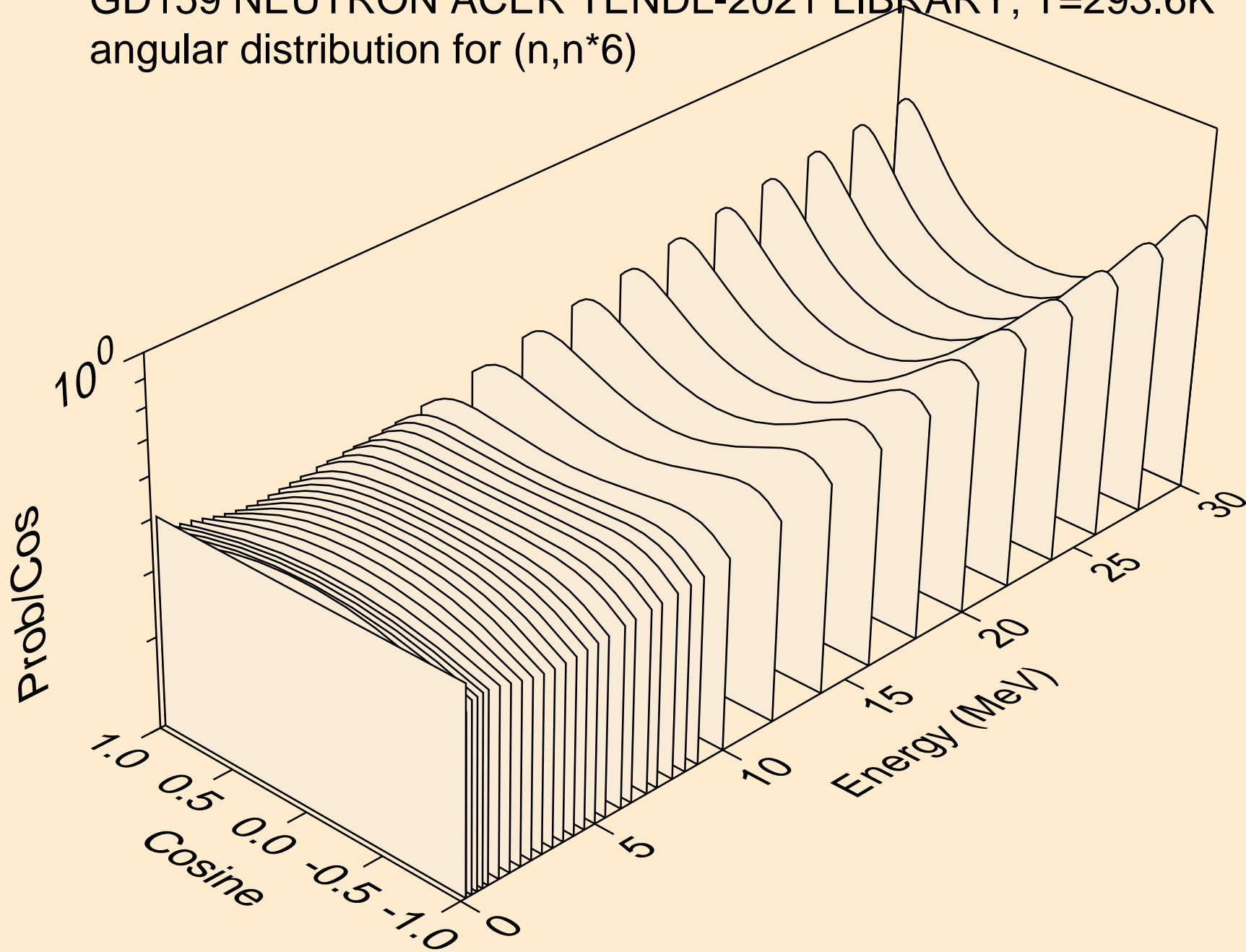
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



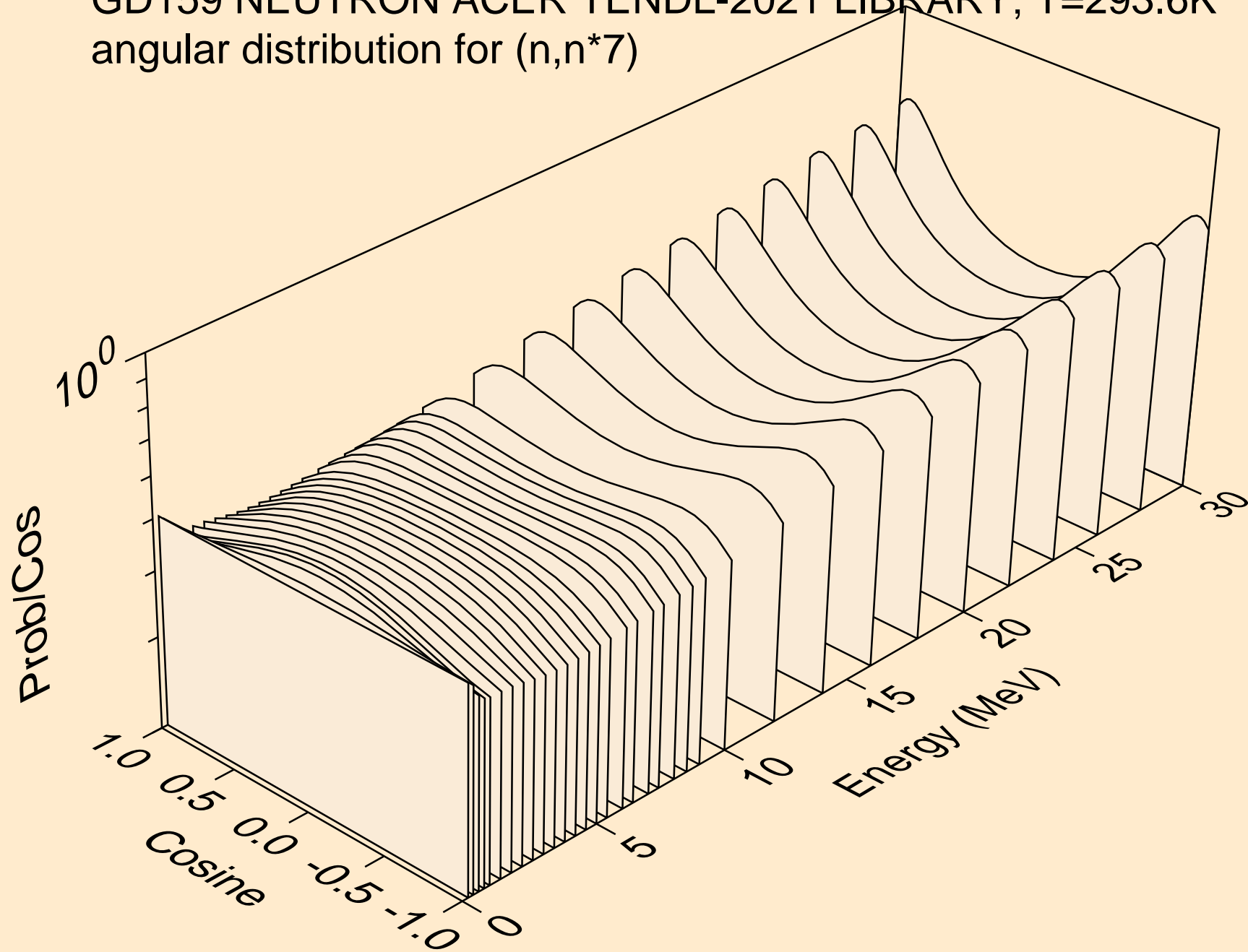
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



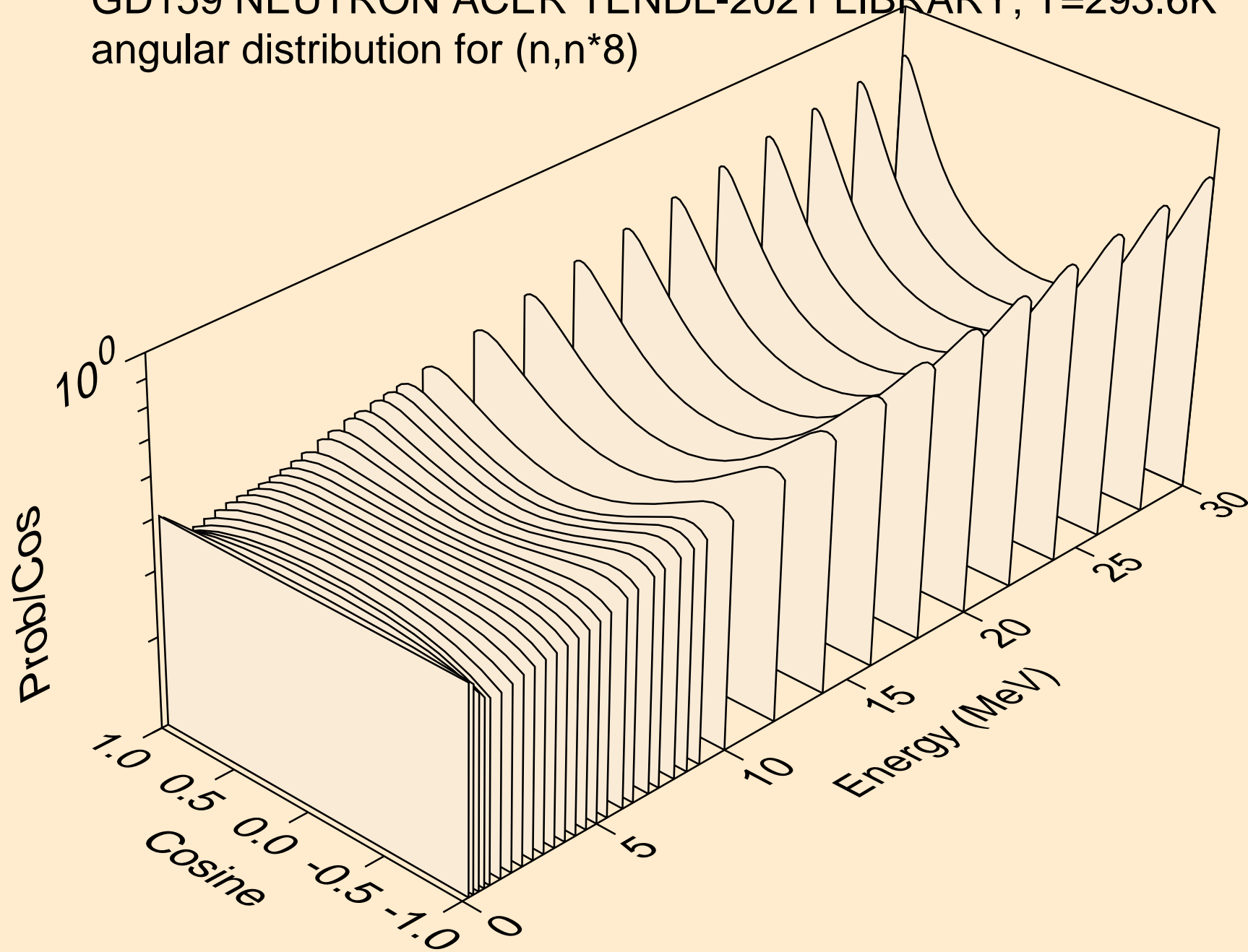
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)

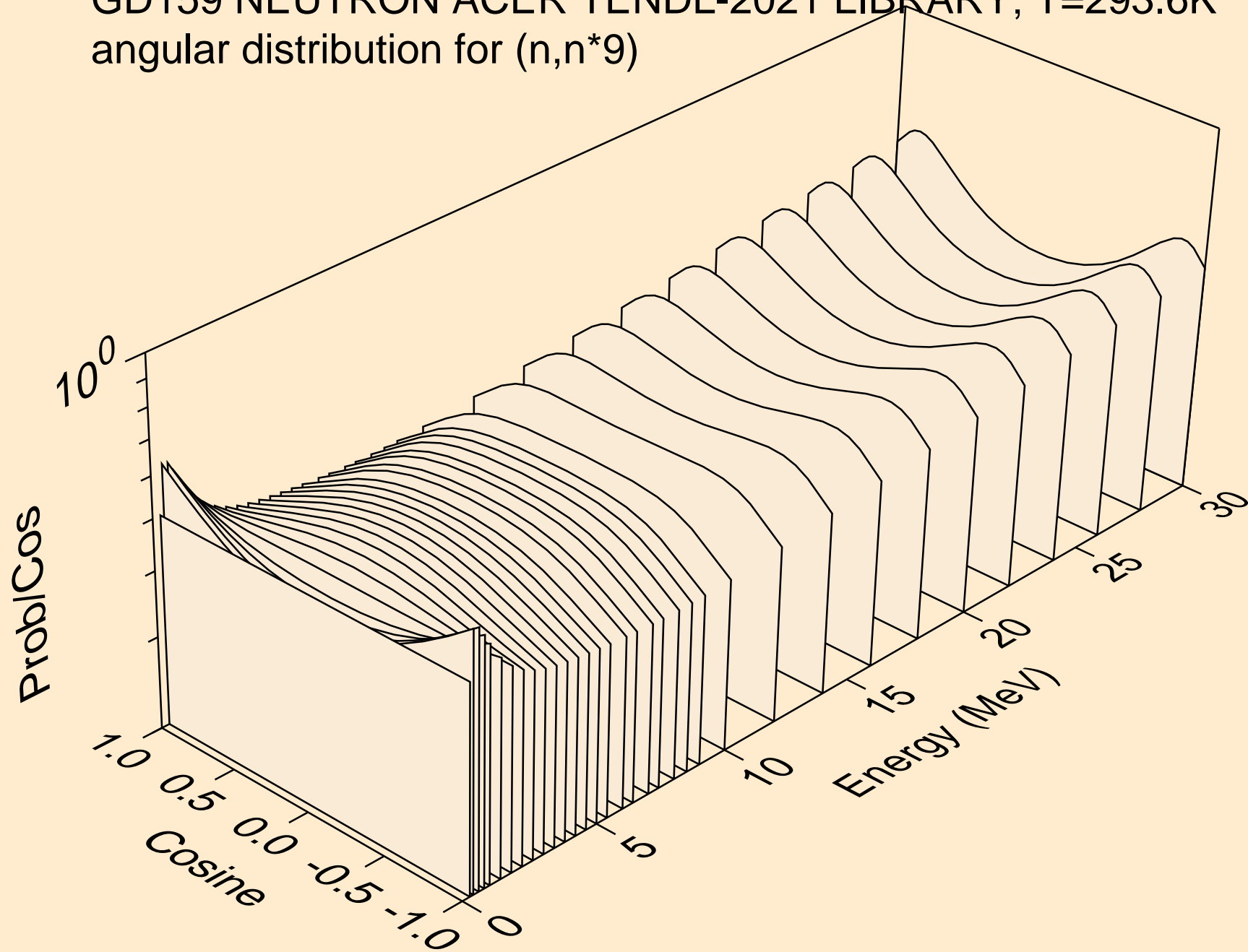


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

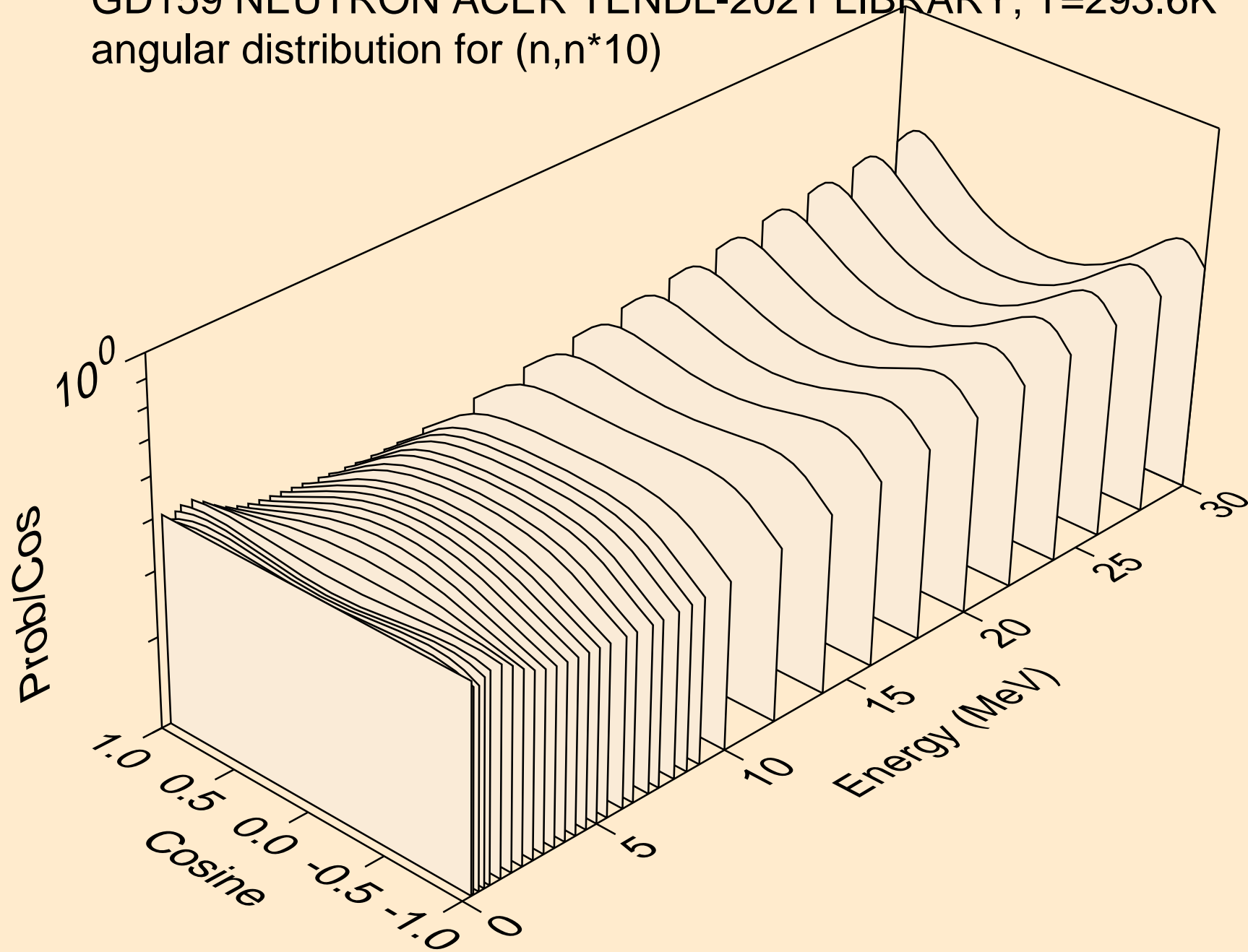




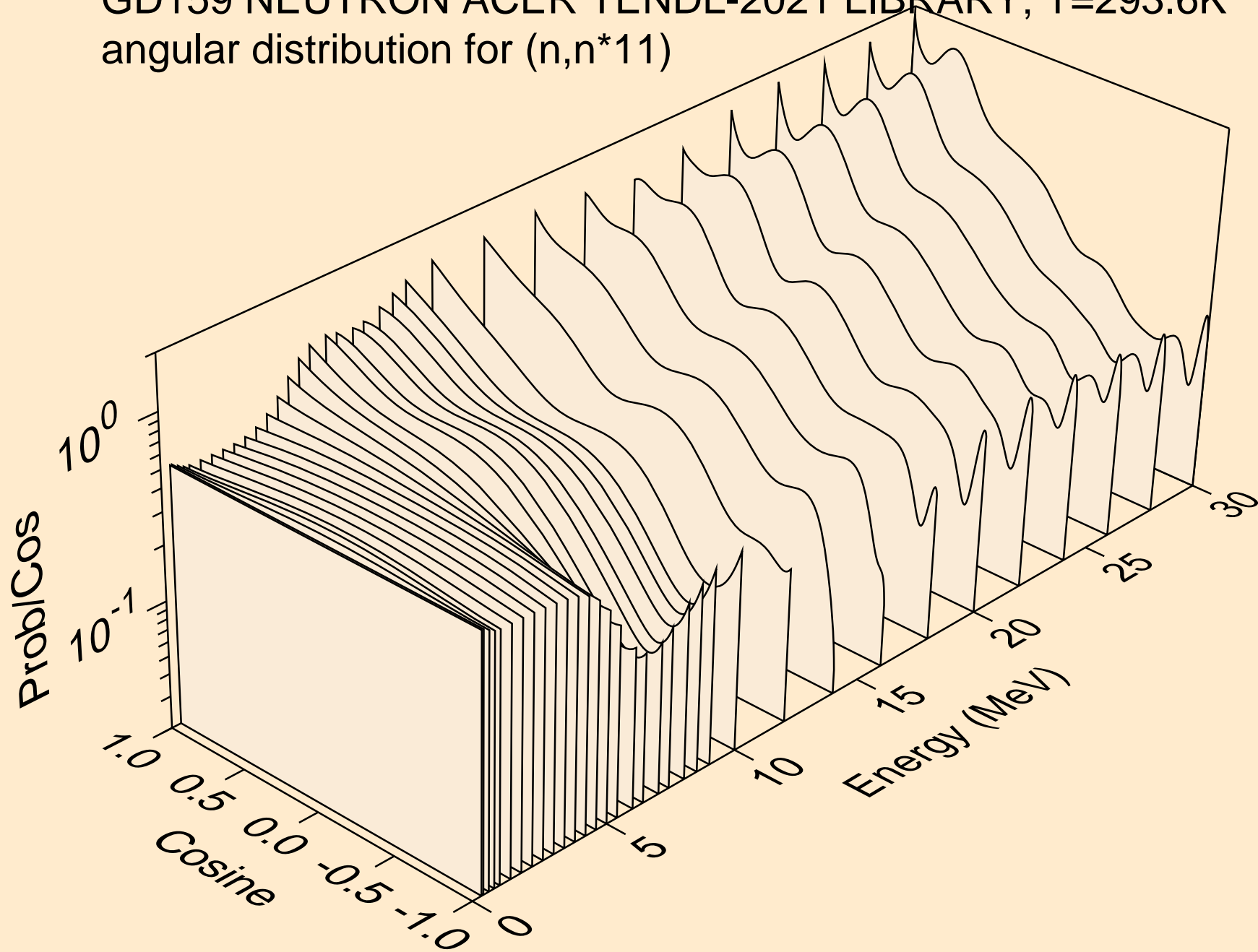
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



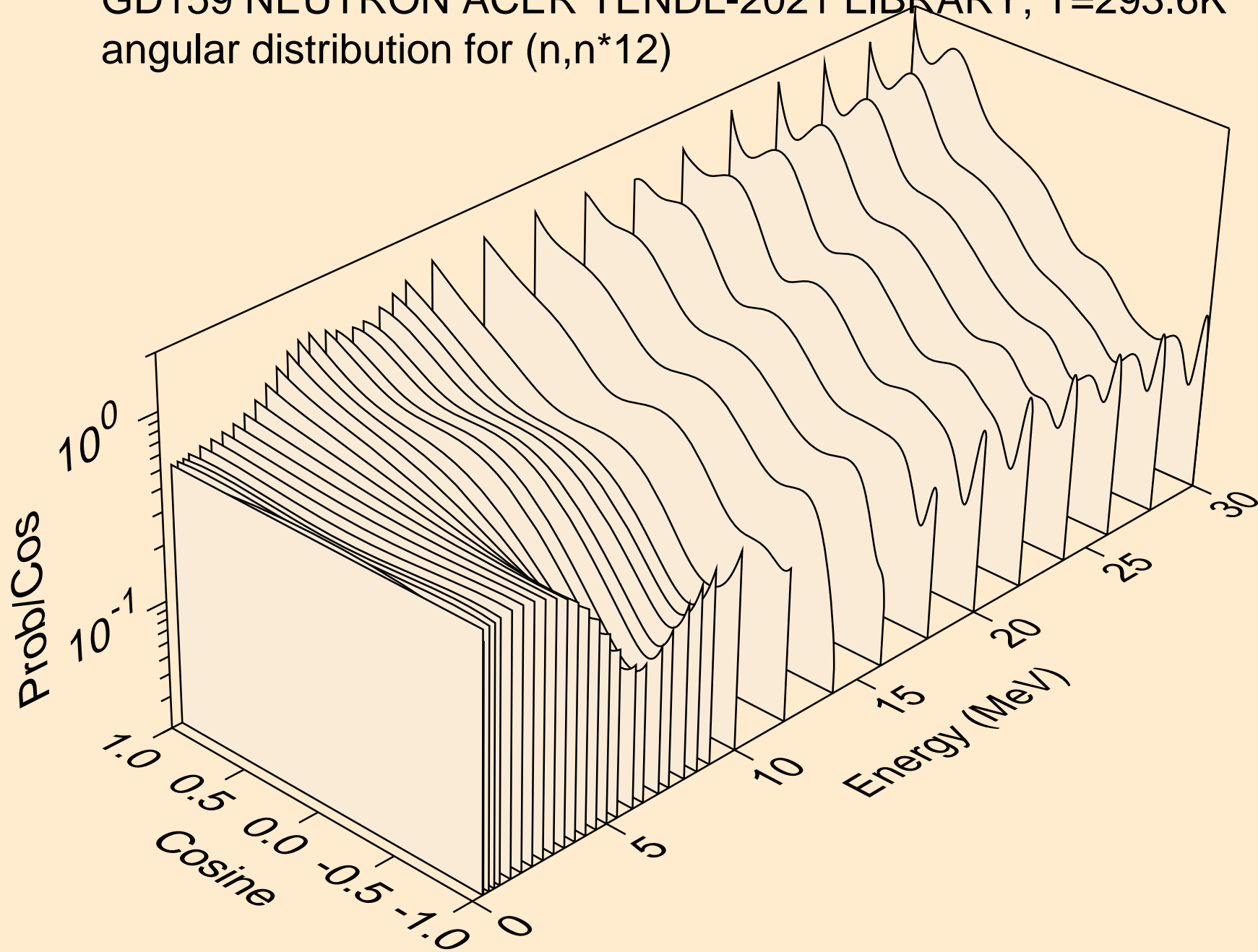
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angular distribution for (n,n\*10)



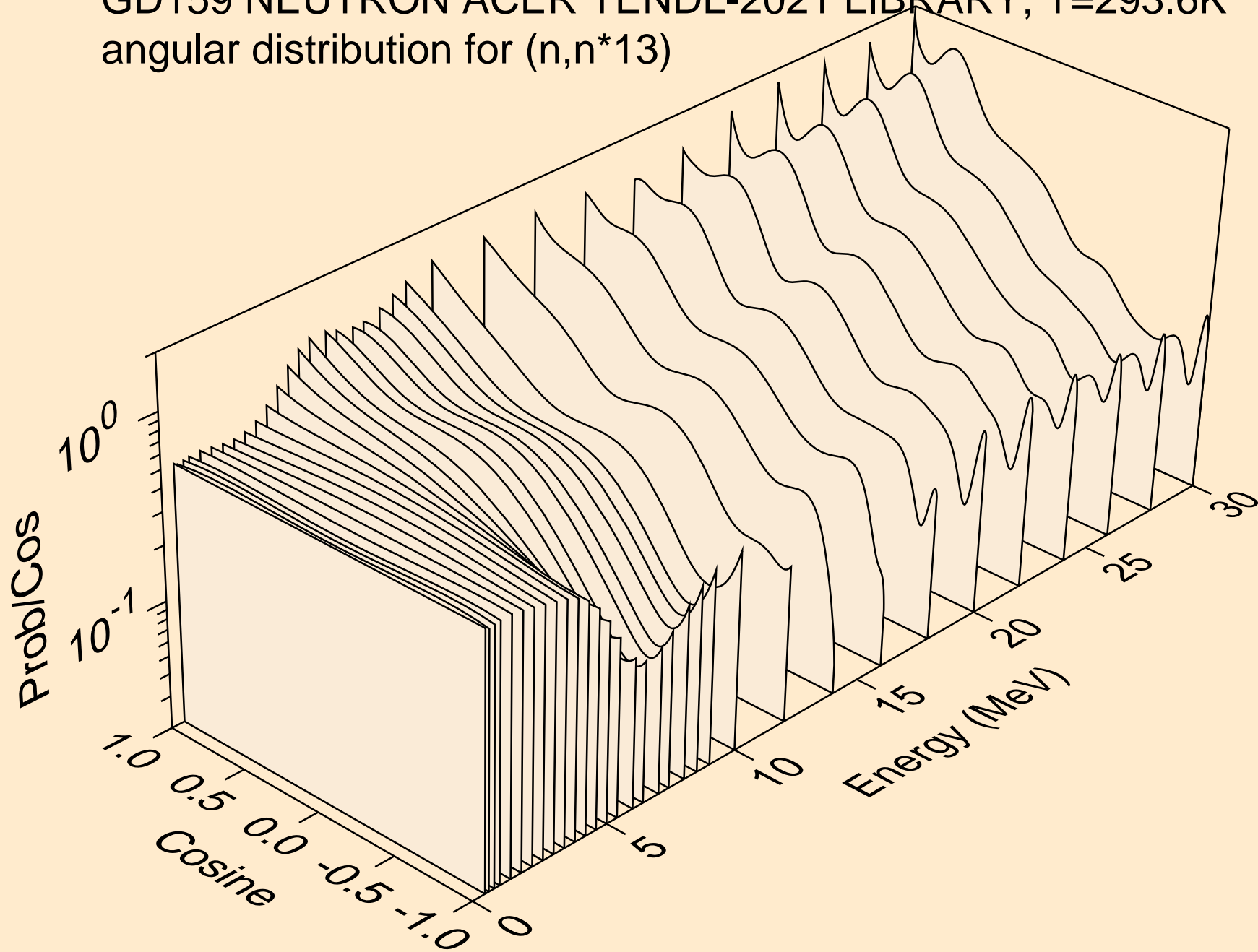
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angular distribution for (n,n\*11)



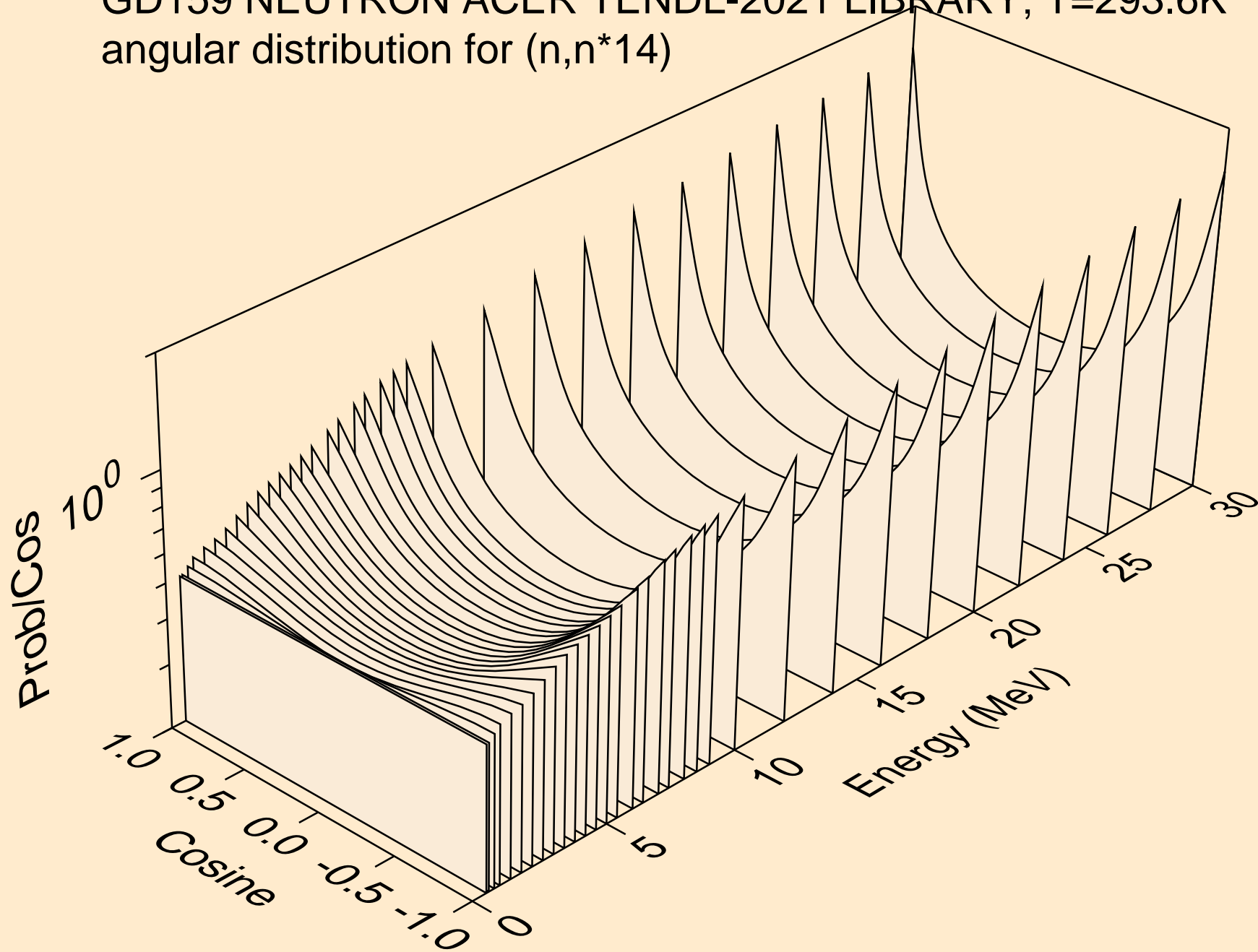
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angular distribution for (n,n\*12)



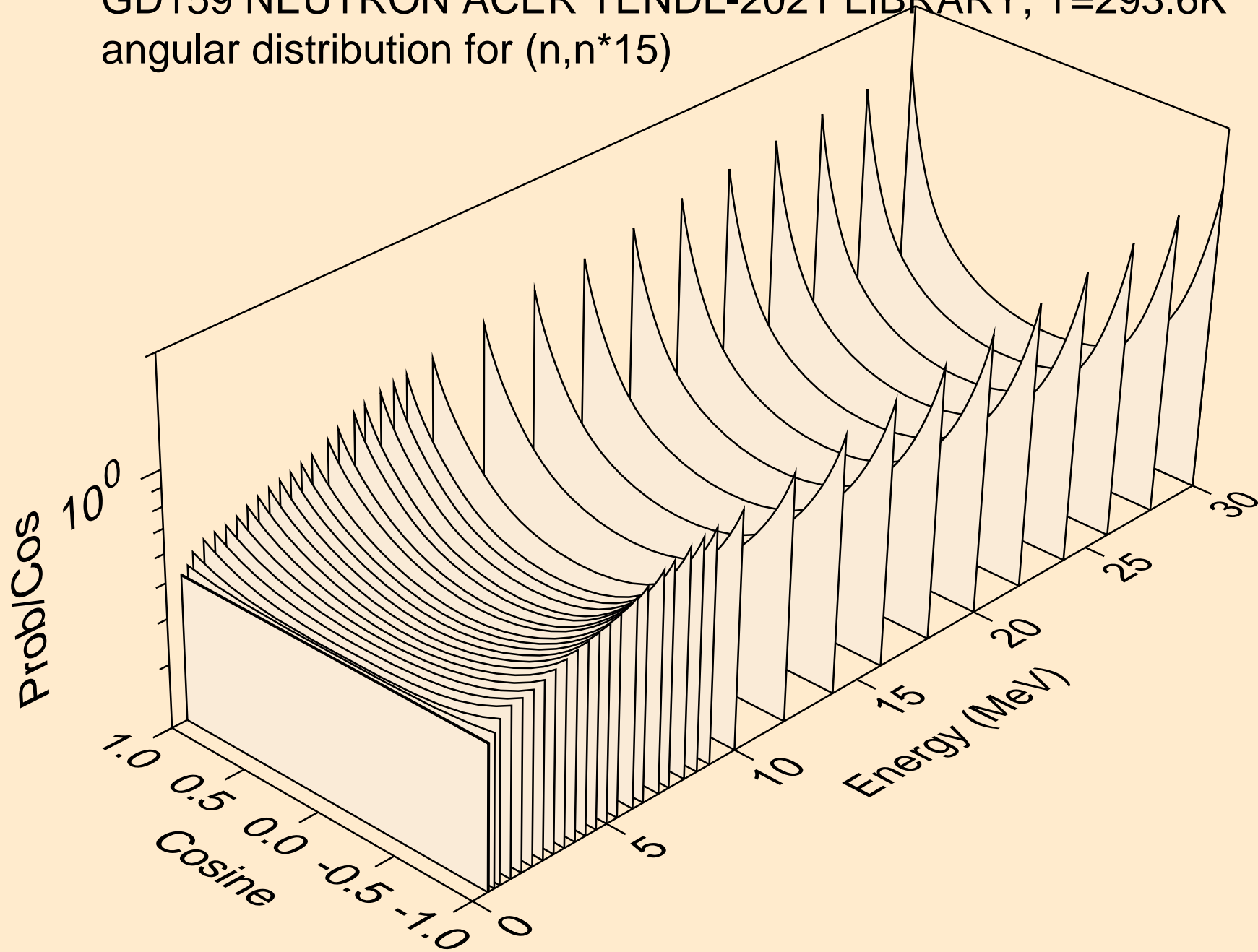
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angular distribution for (n,n\*13)



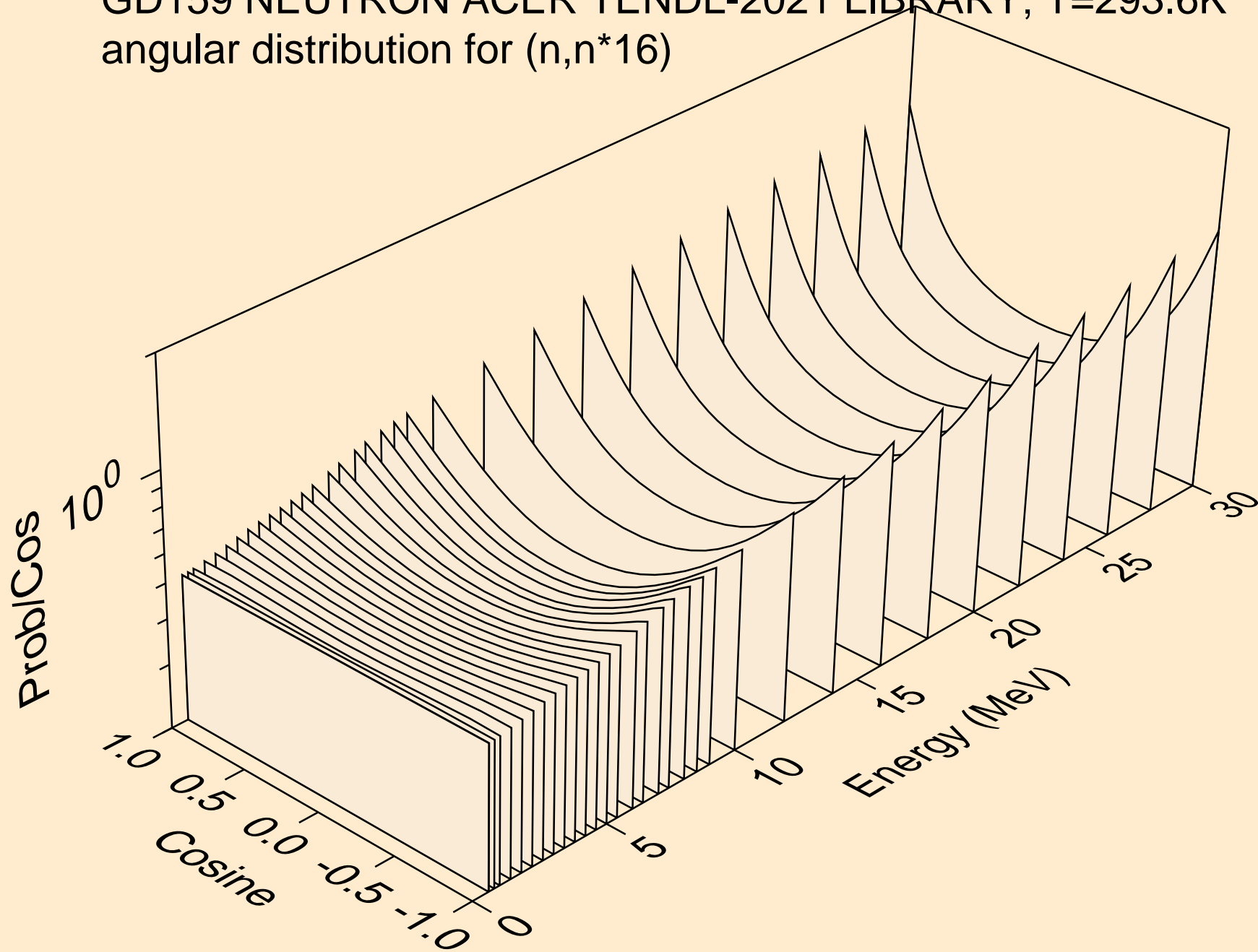
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*14)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)

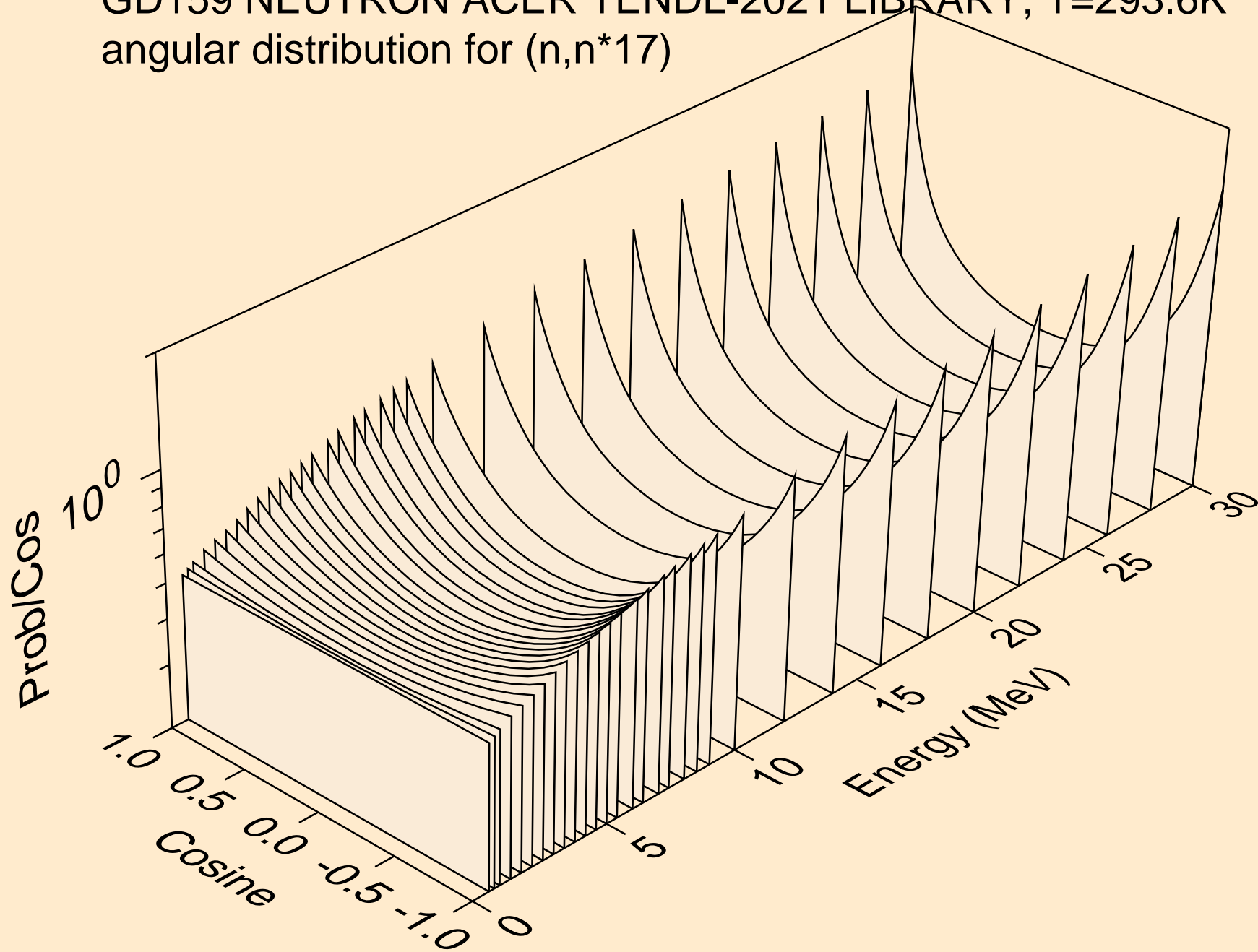


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)

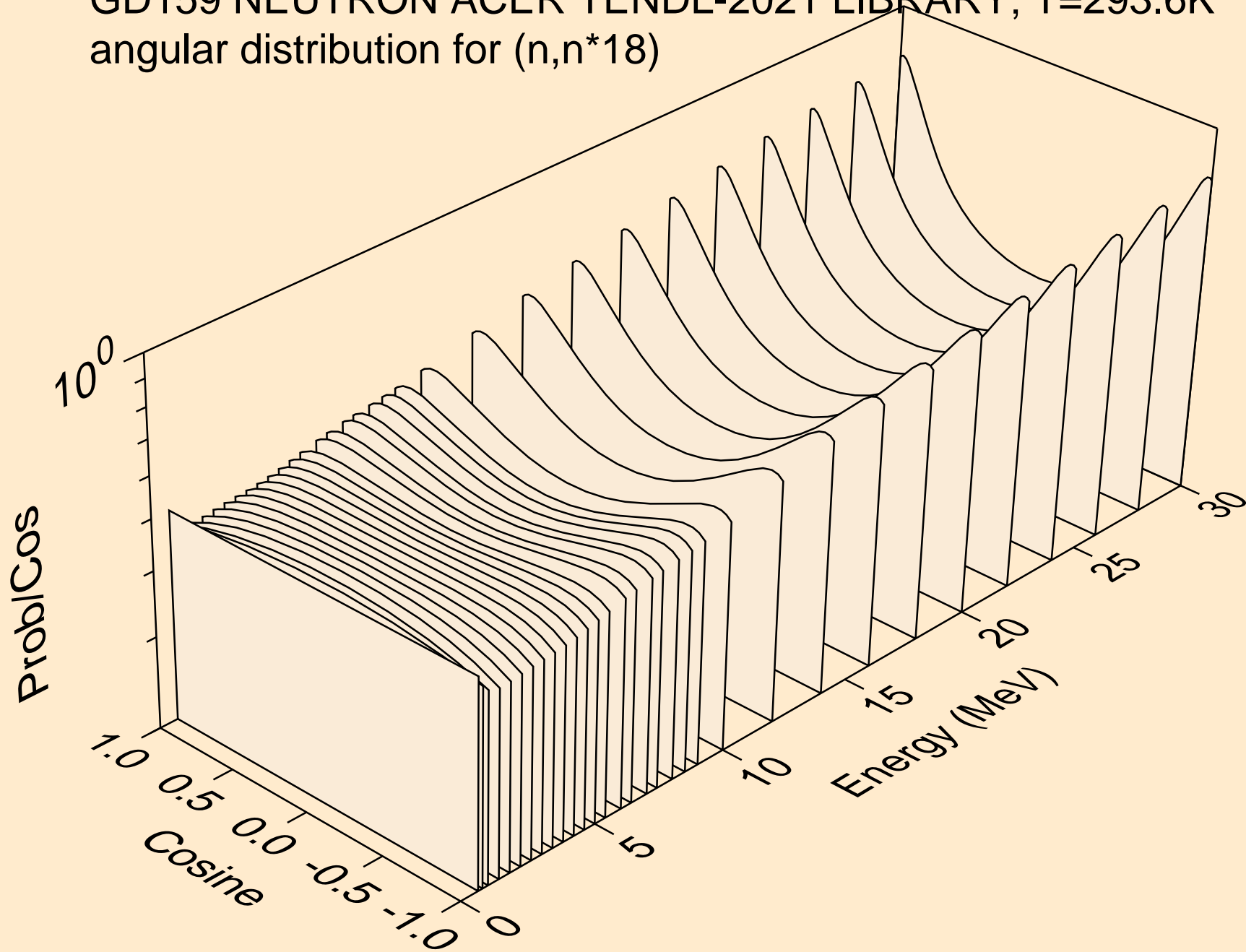




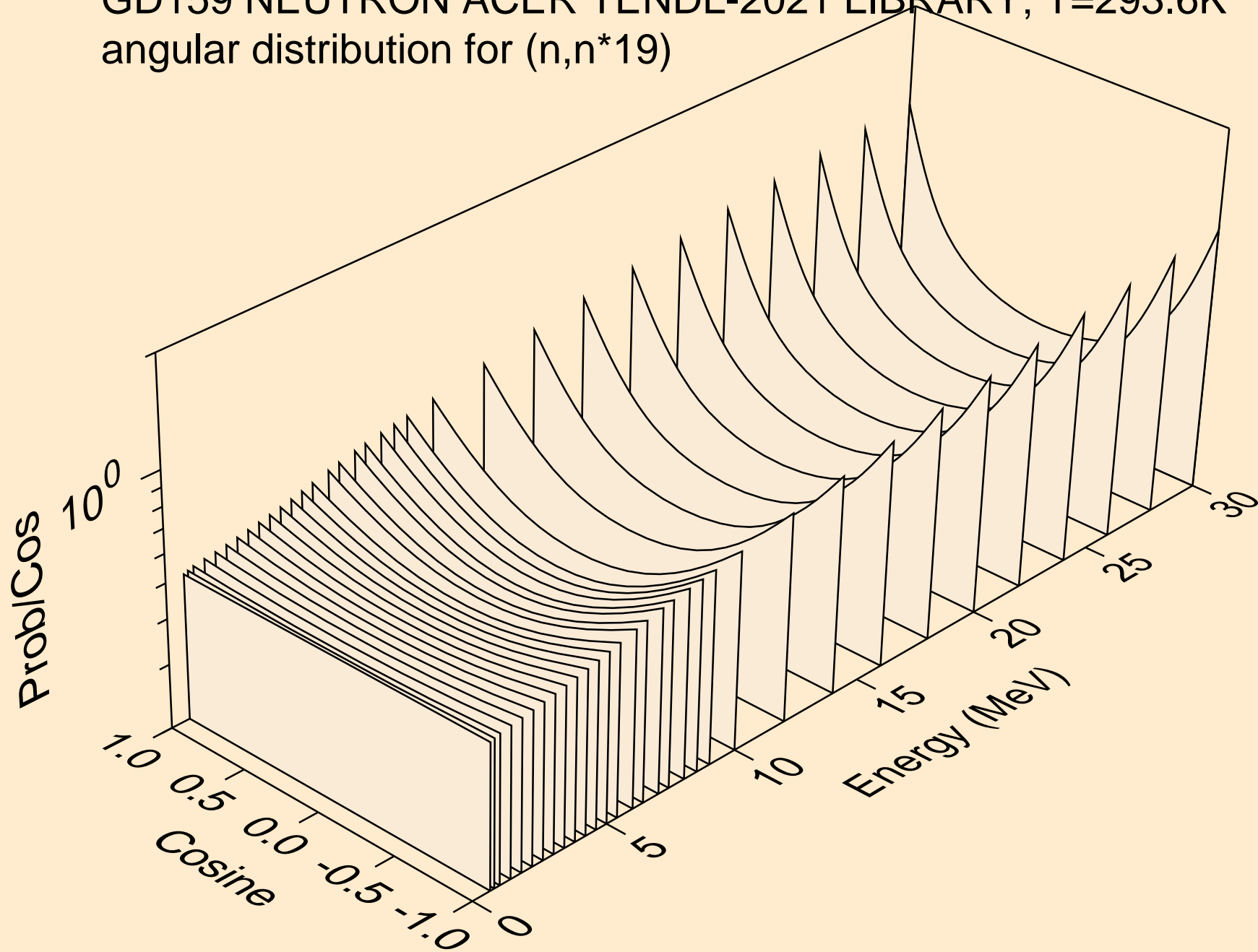
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angular distribution for (n,n\*17)



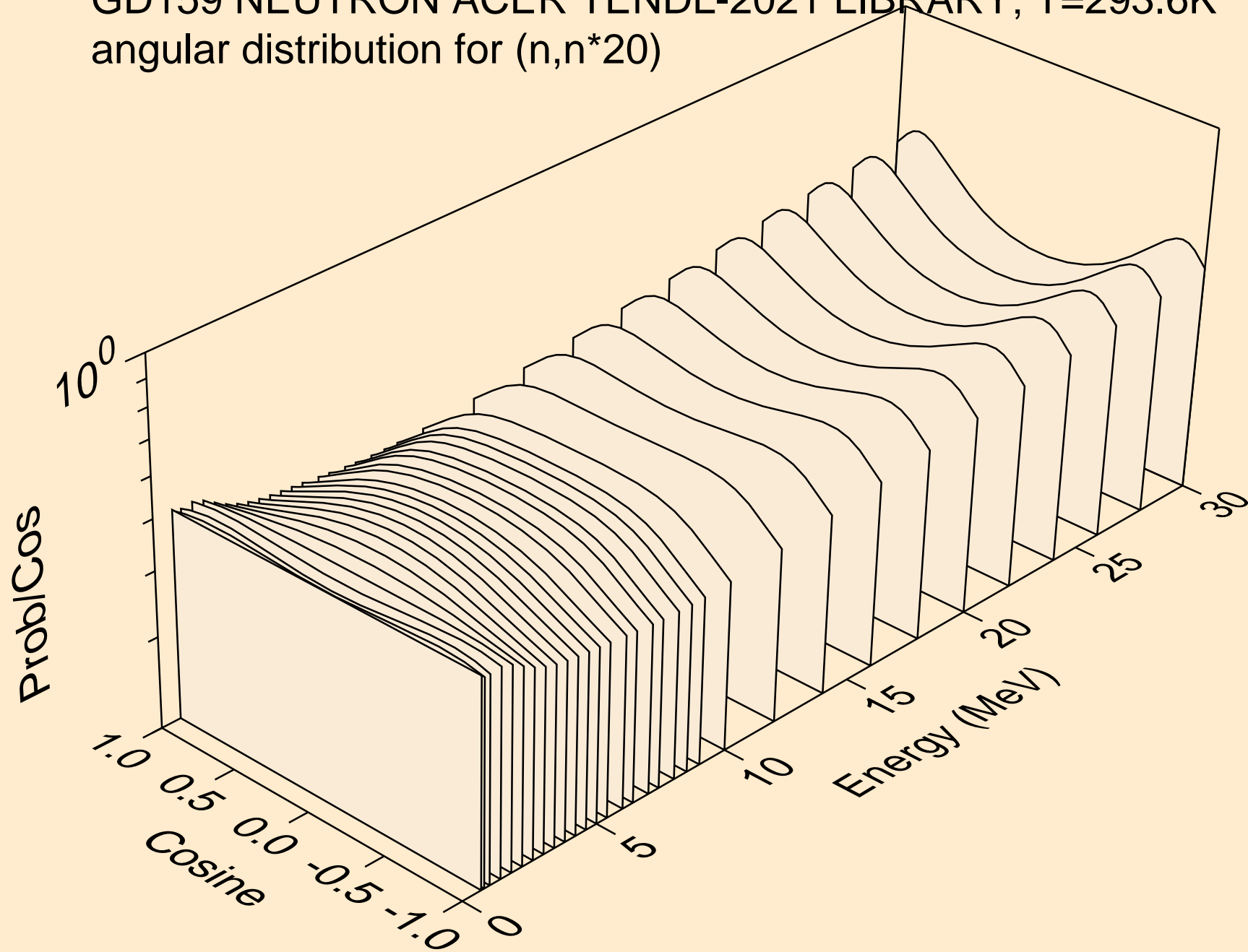
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angular distribution for (n,n\*18)



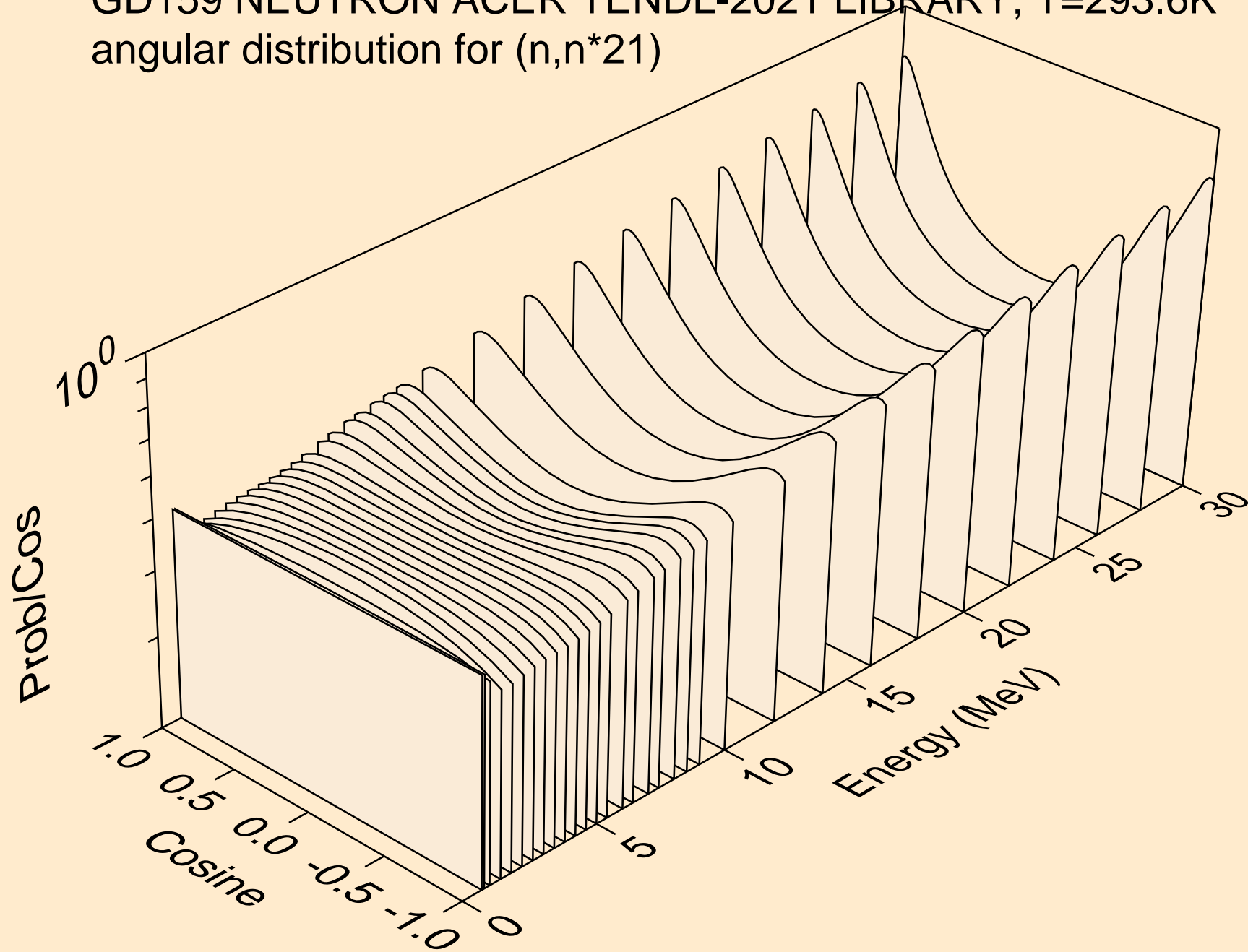
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angular distribution for (n,n\*19)



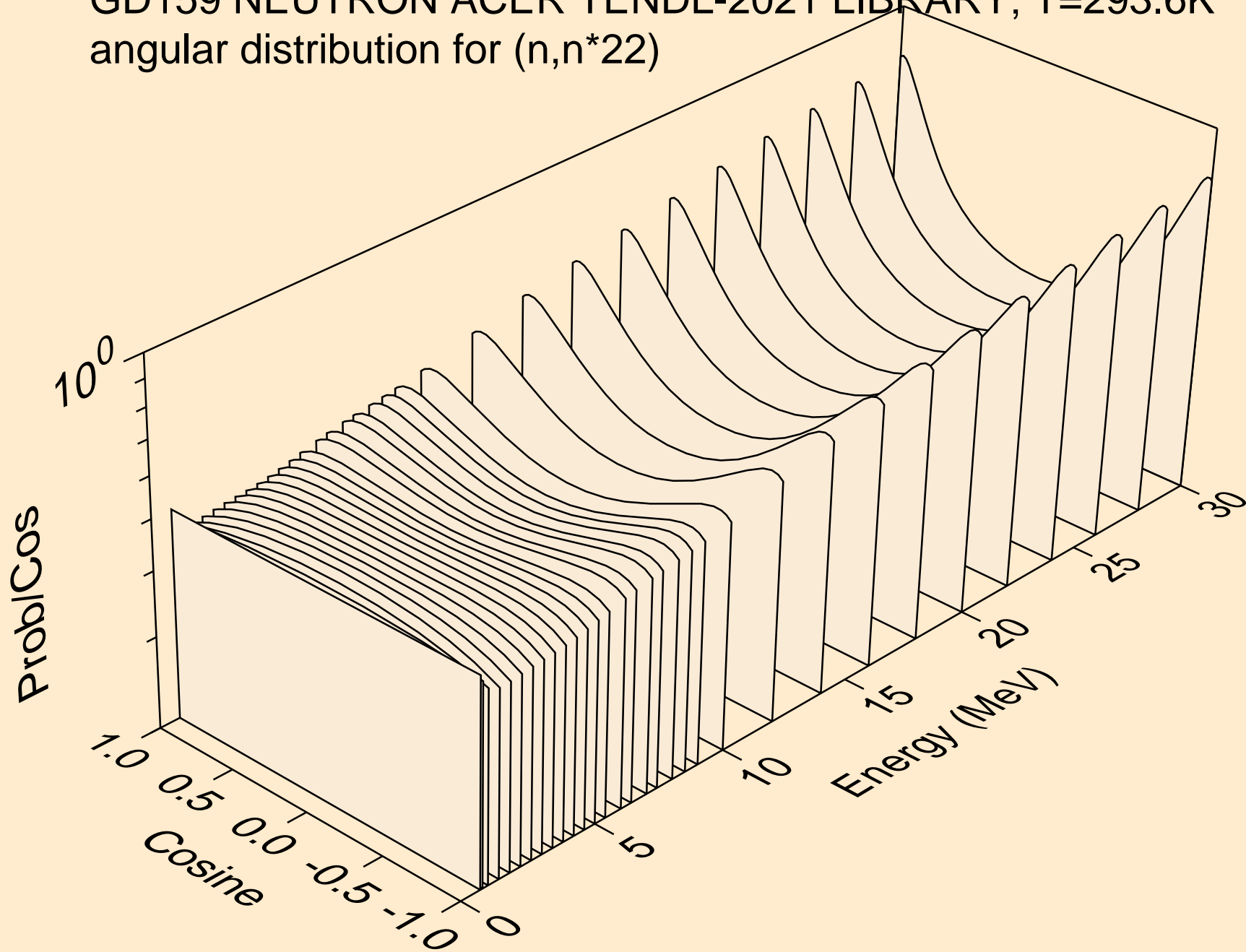
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angular distribution for (n,n\*20)



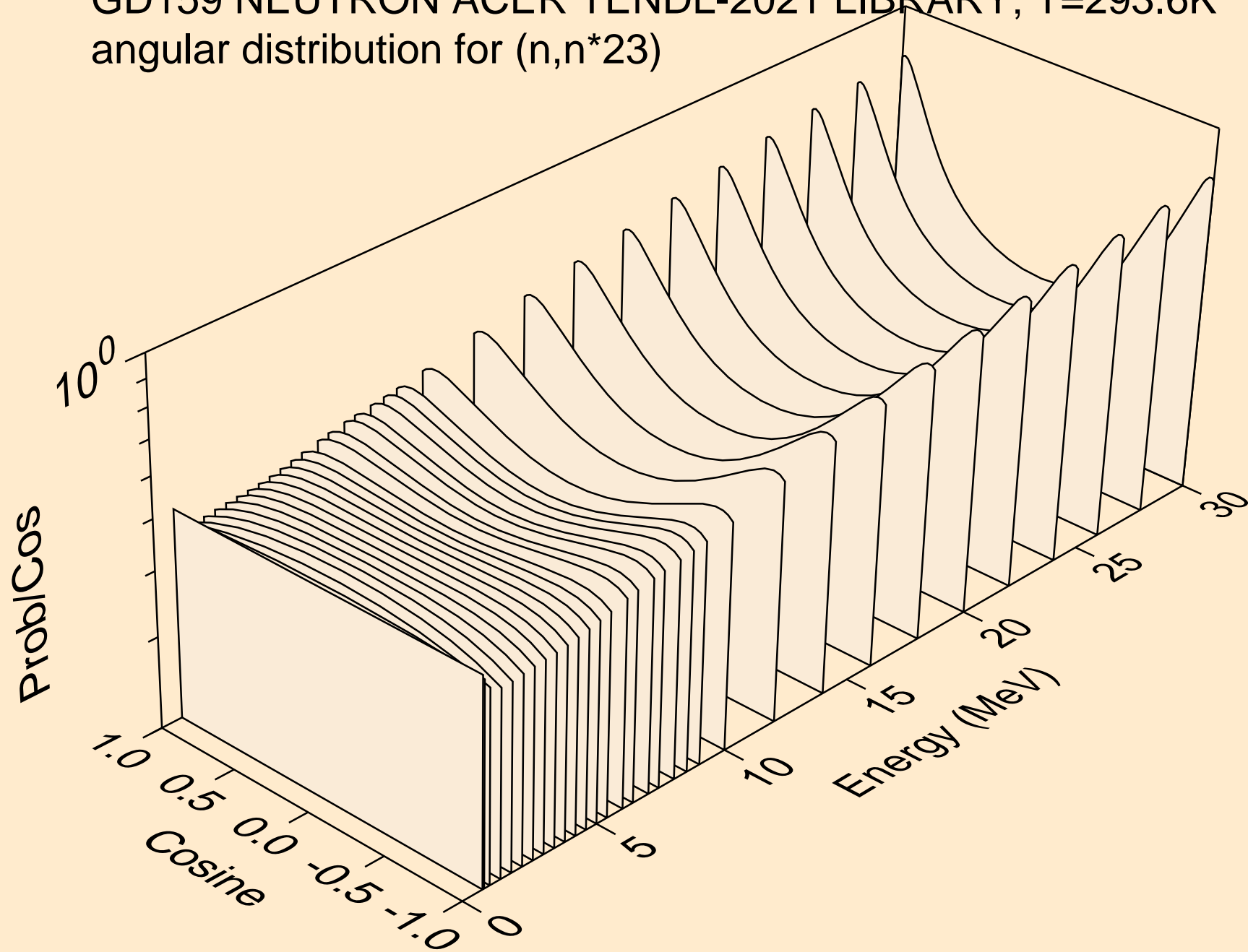
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angular distribution for (n,n\*21)



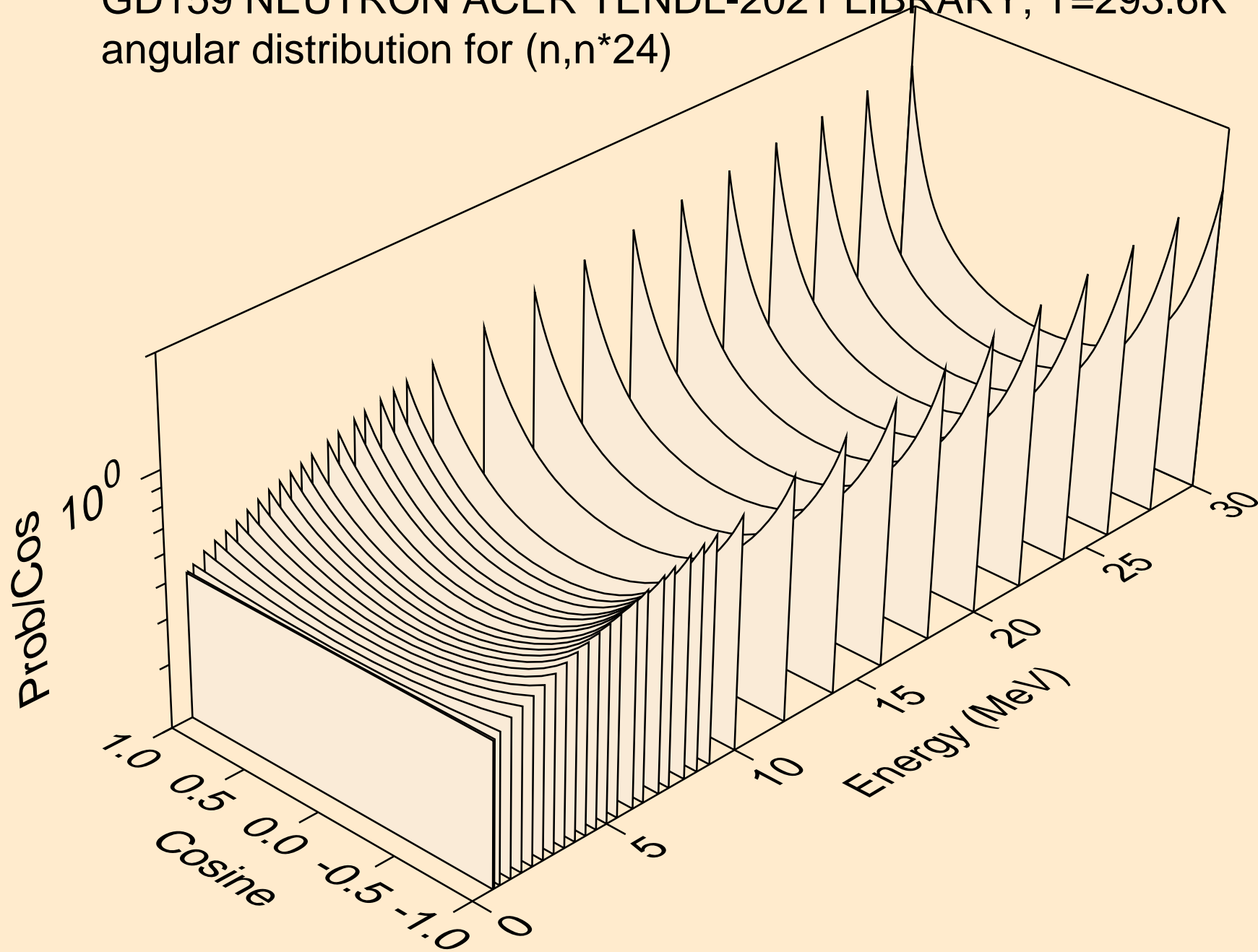
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)

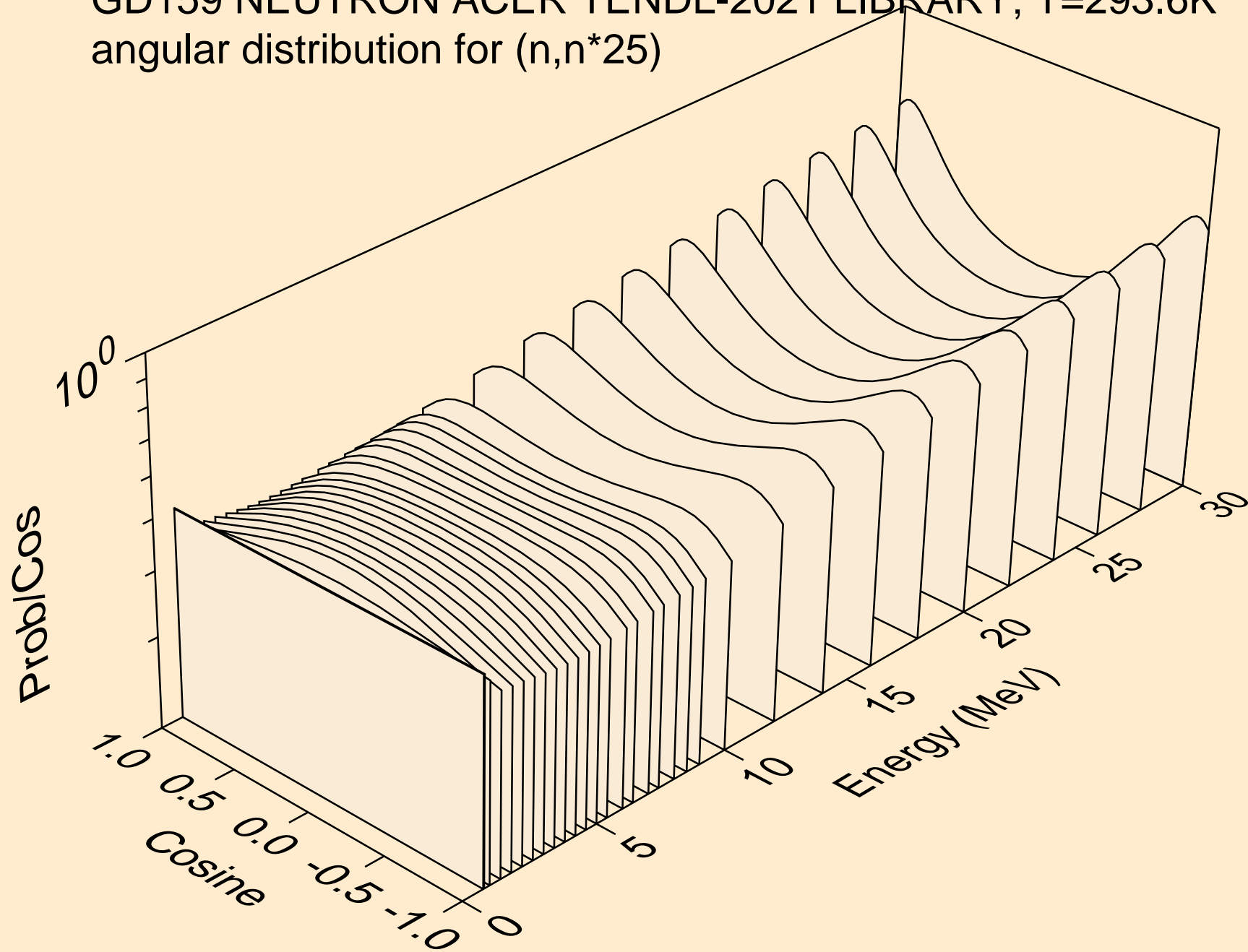


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)

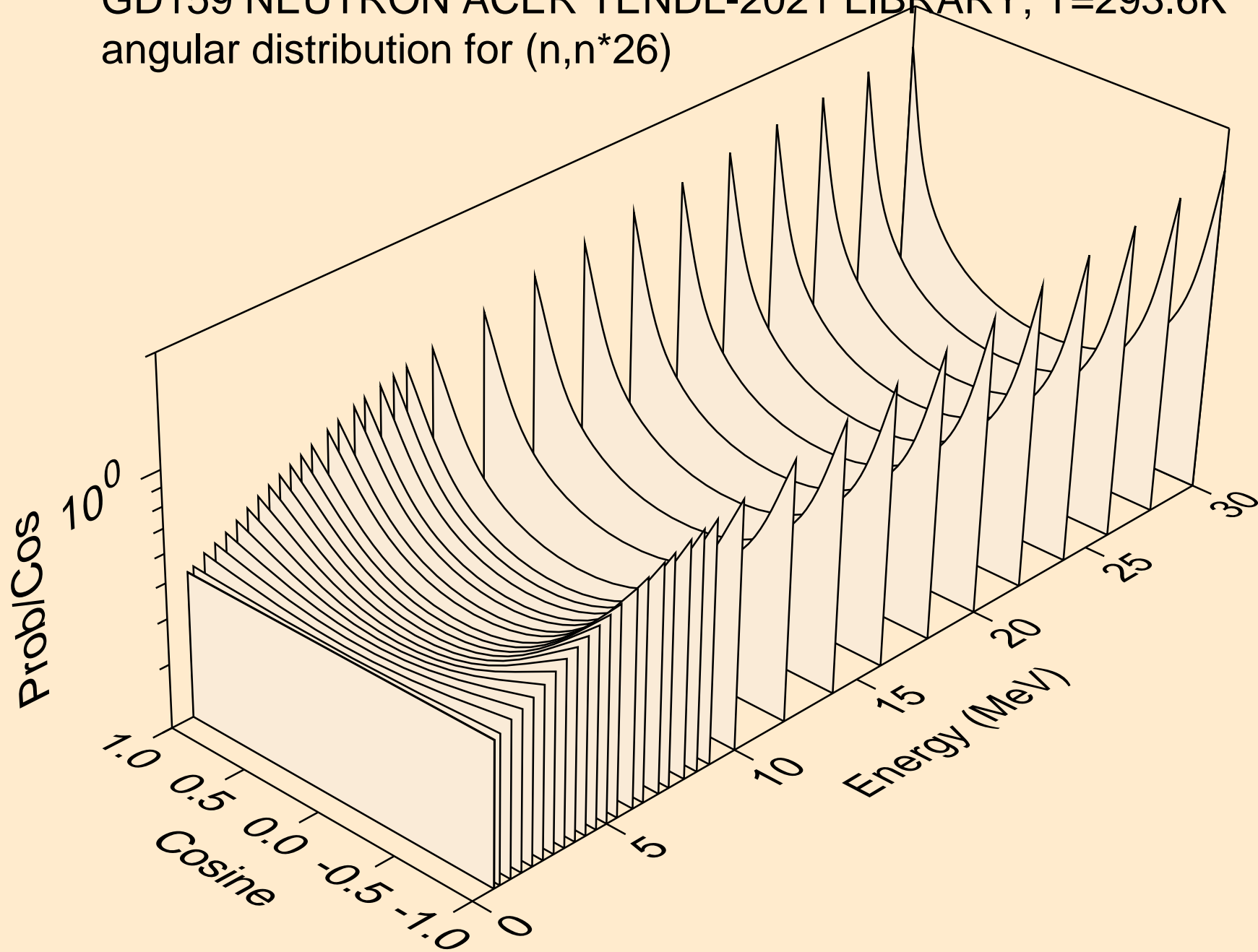




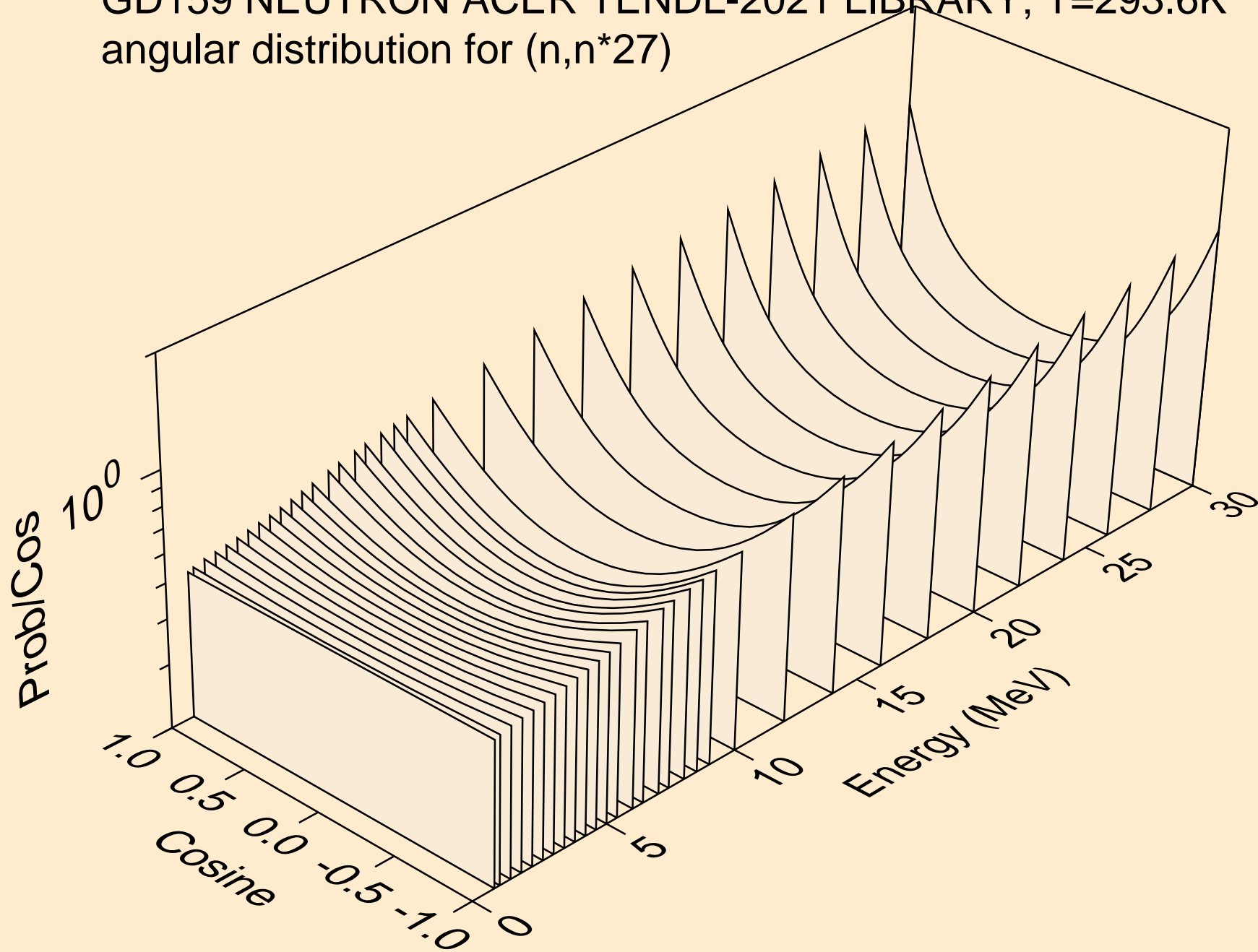
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)



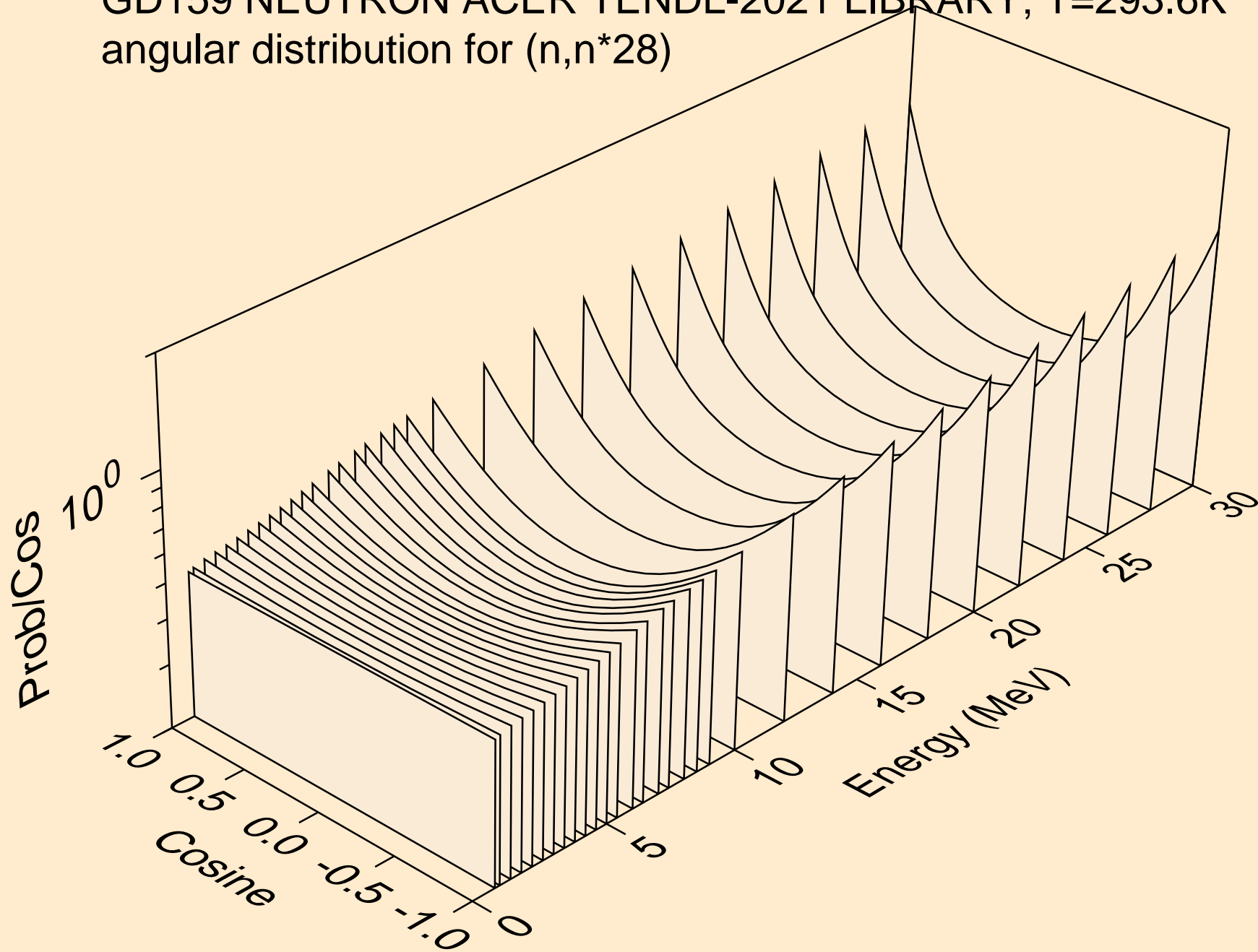
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



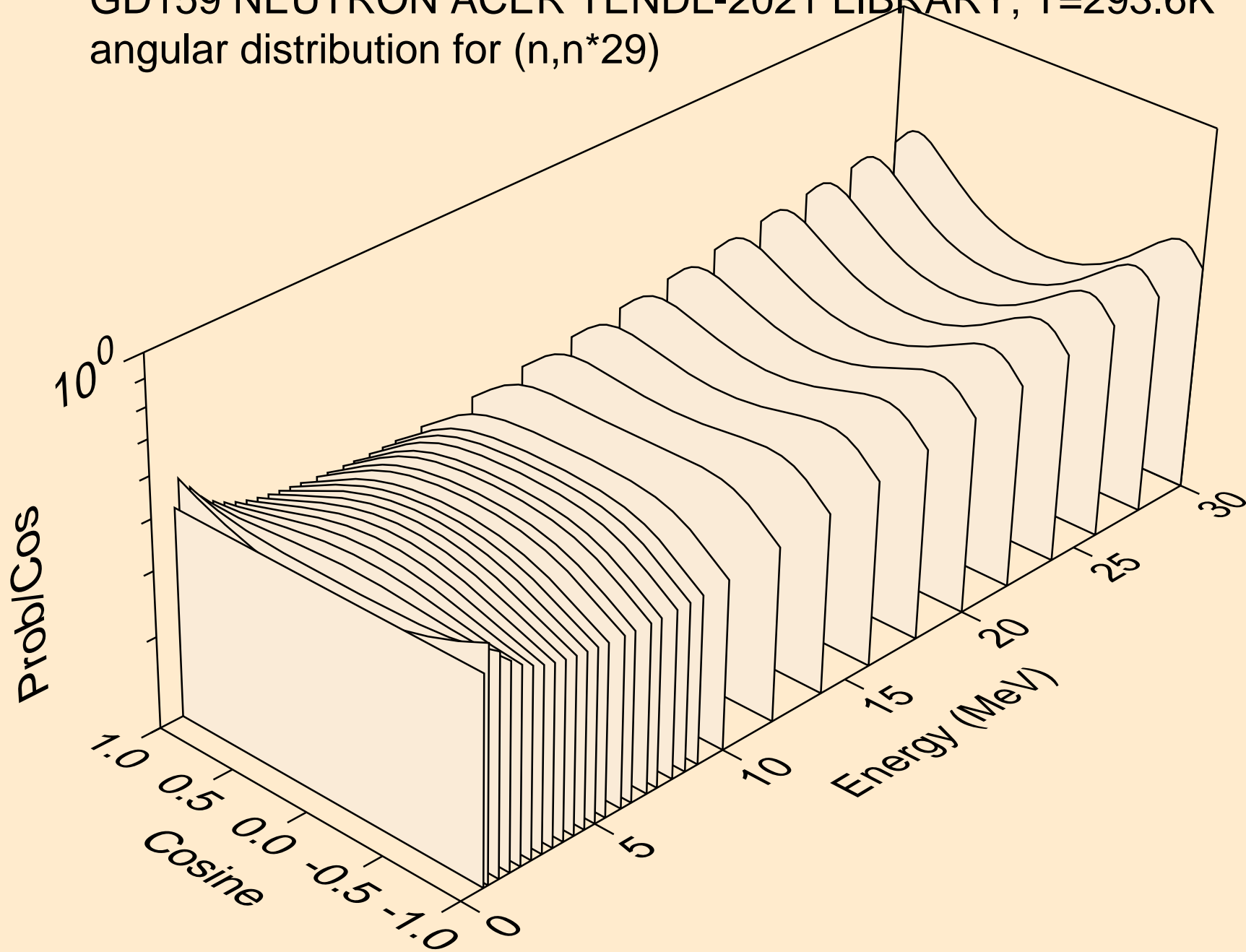
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



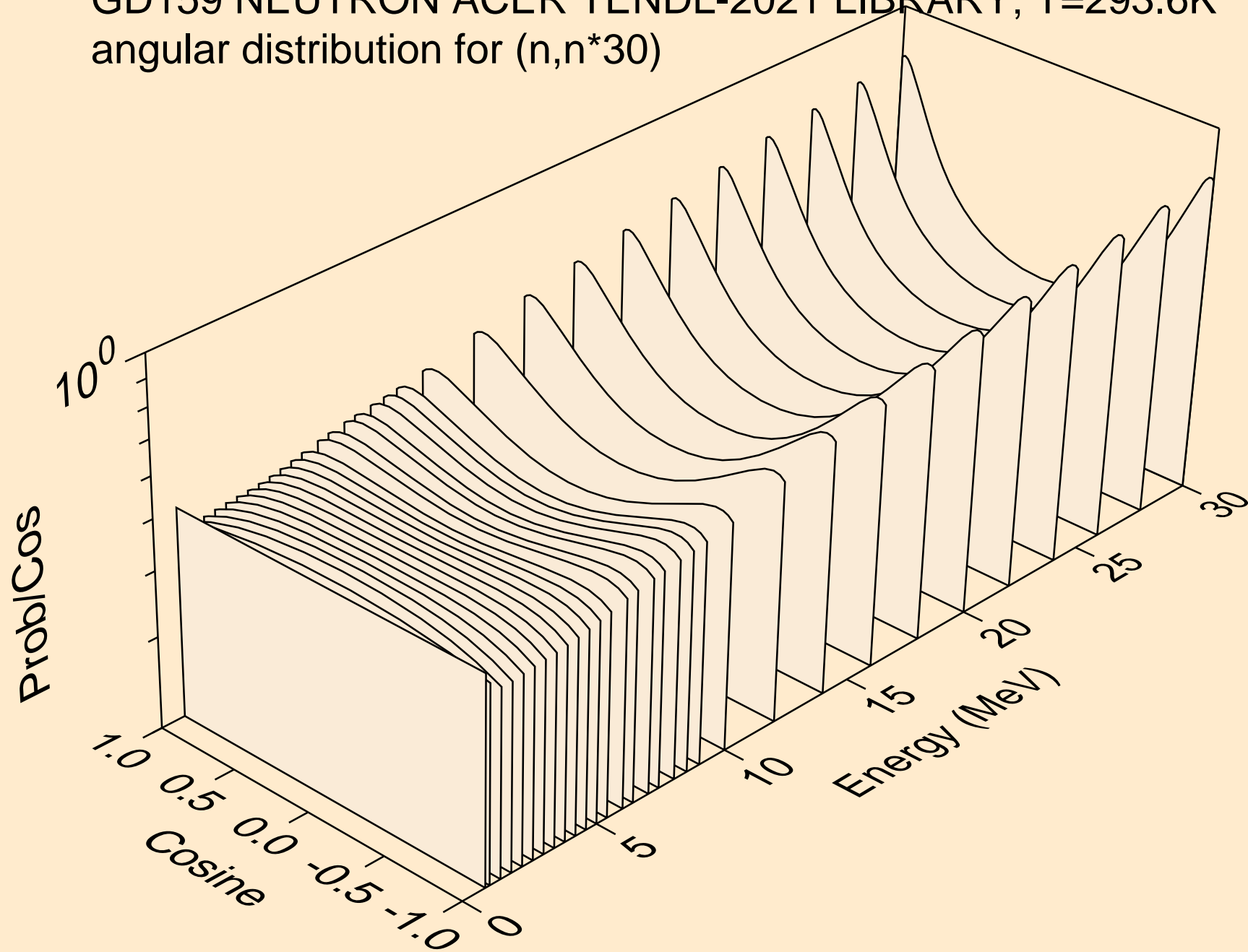
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



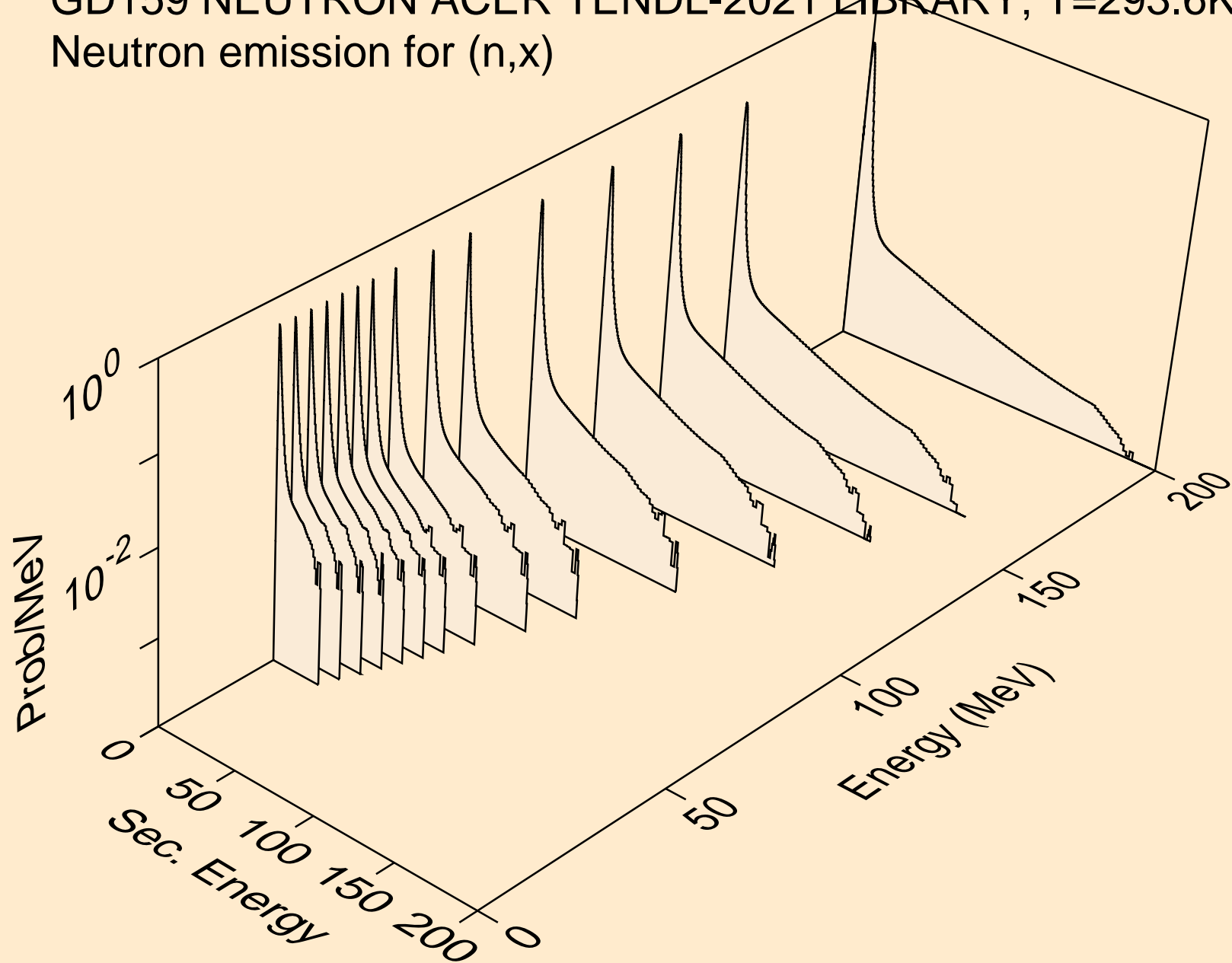
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



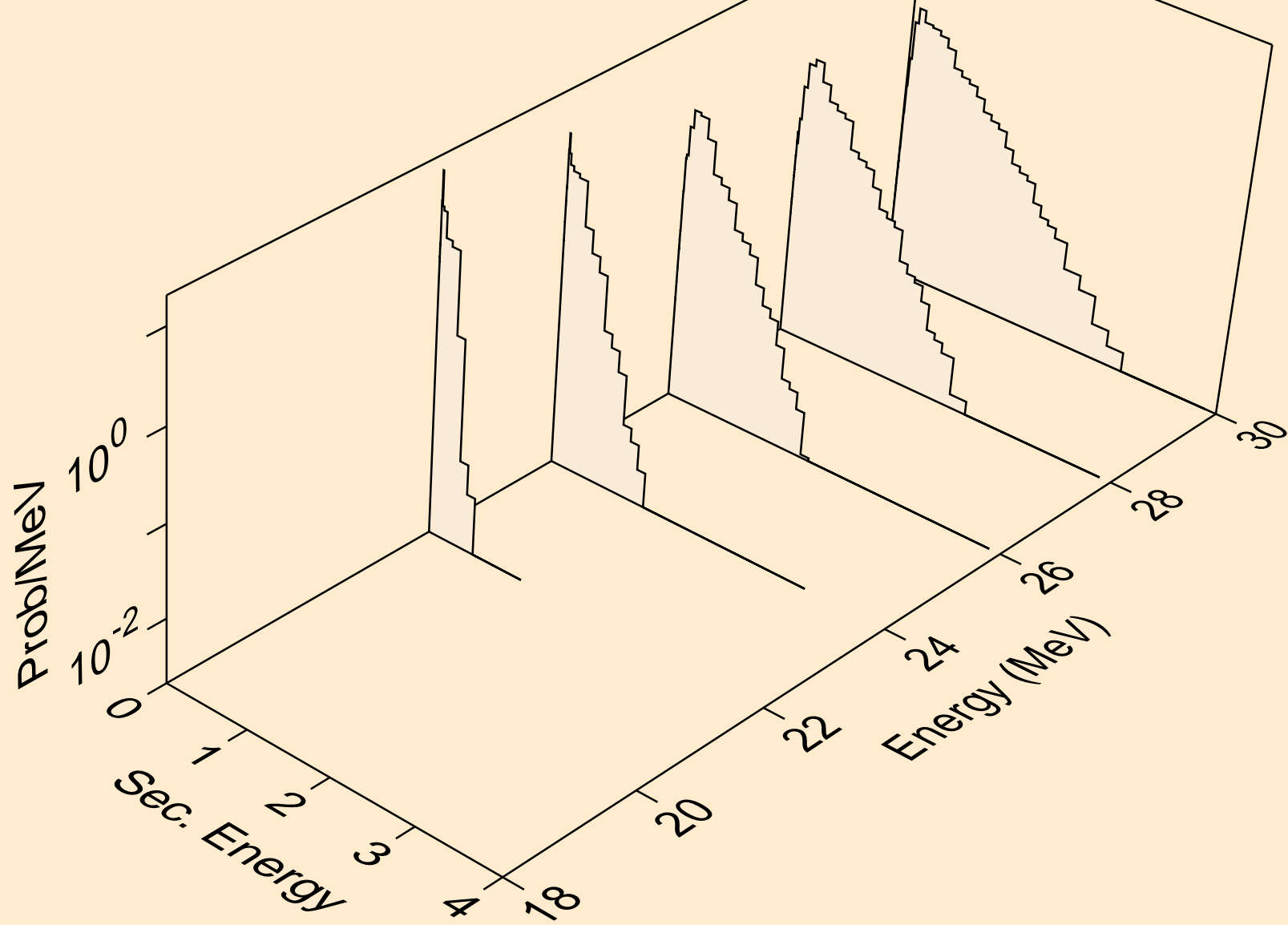
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*30)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)

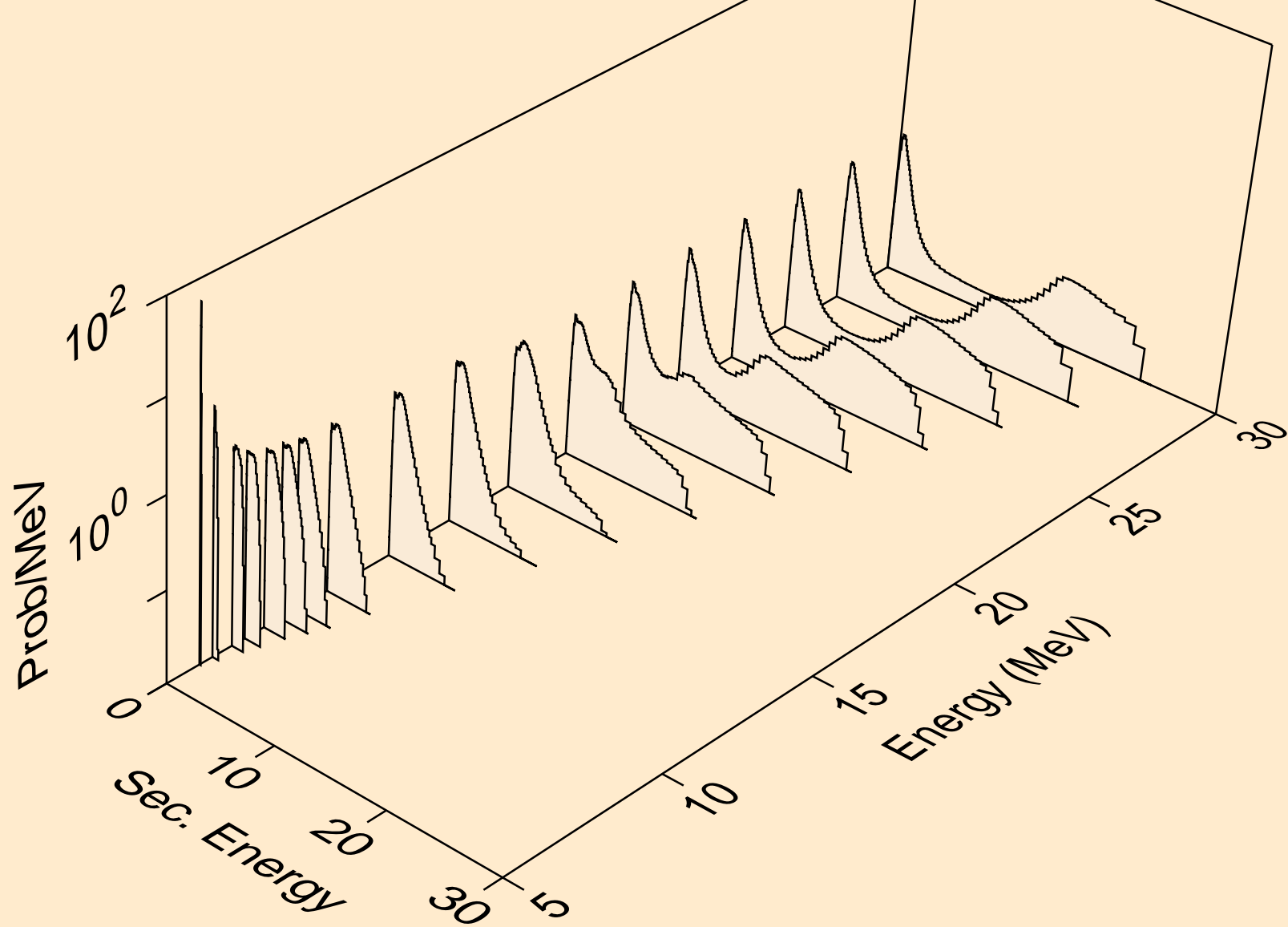


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)

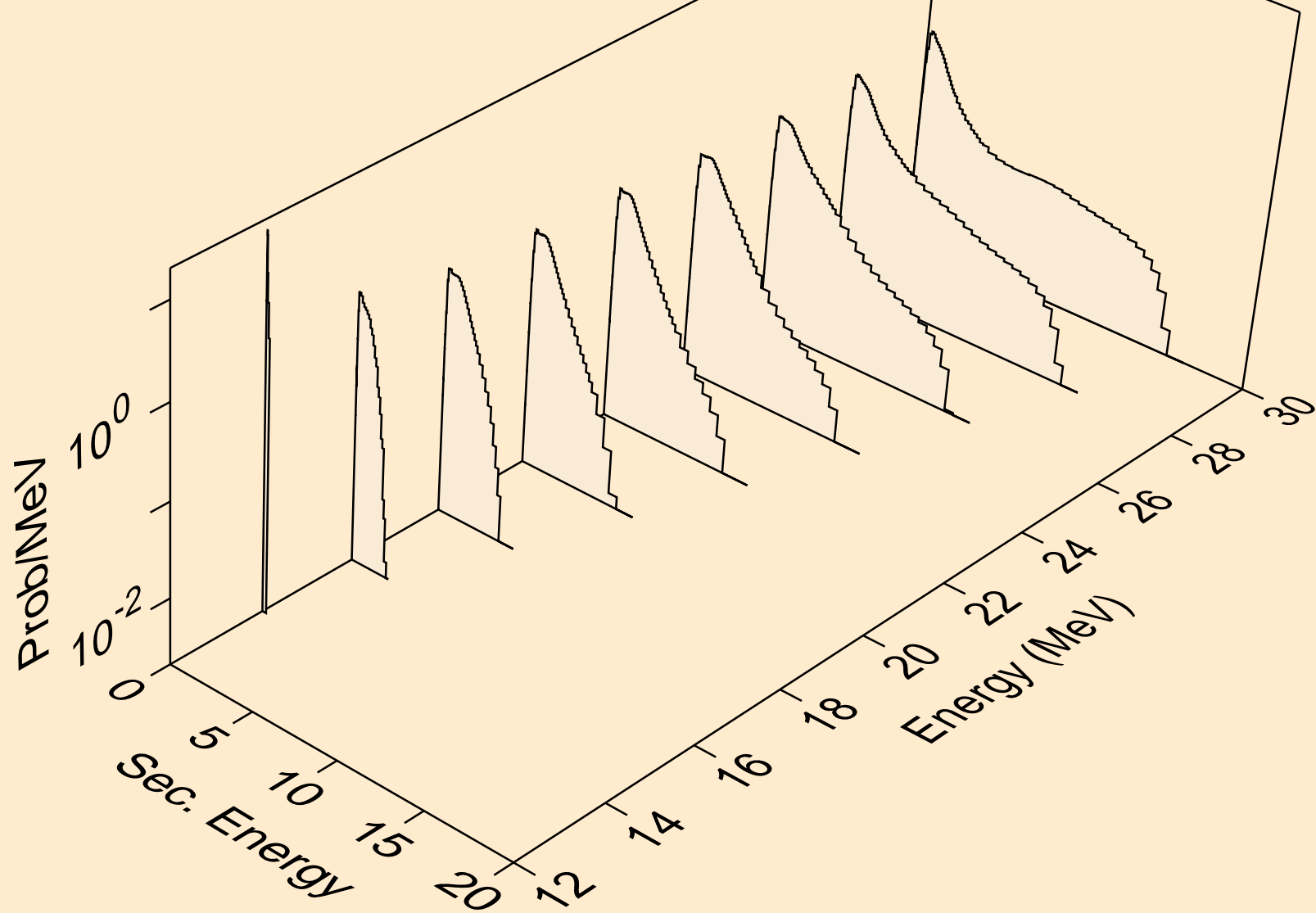




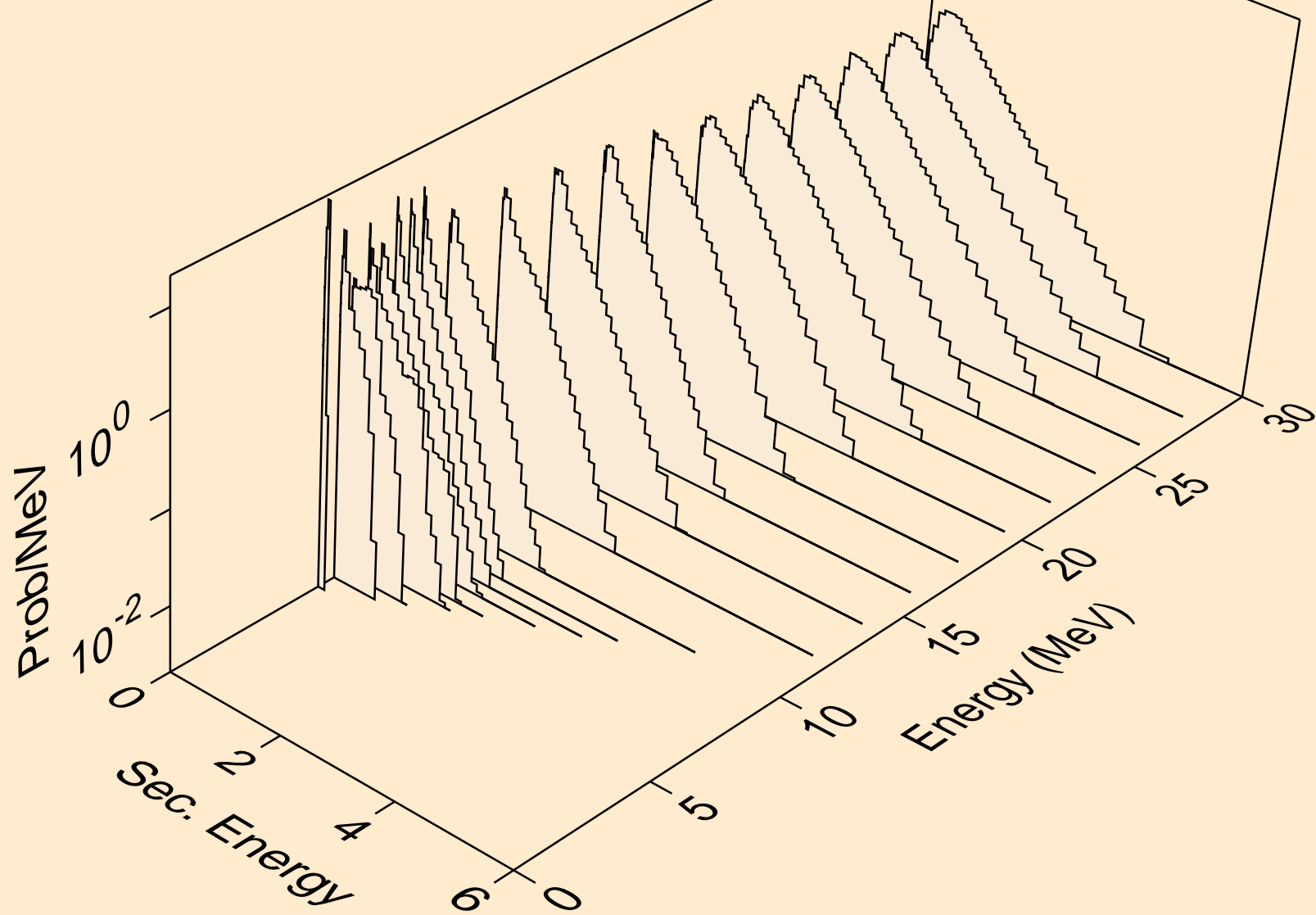
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)



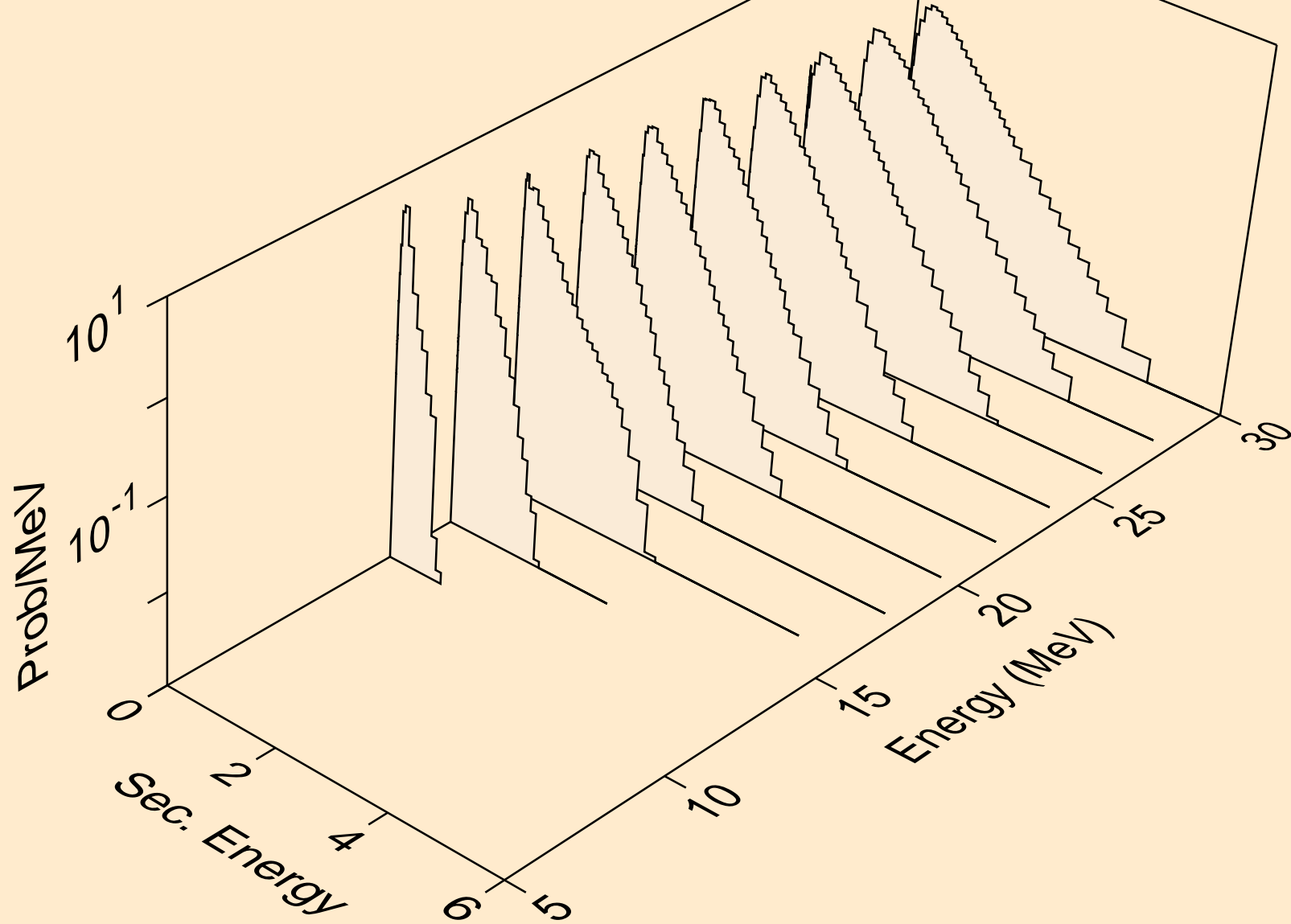
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



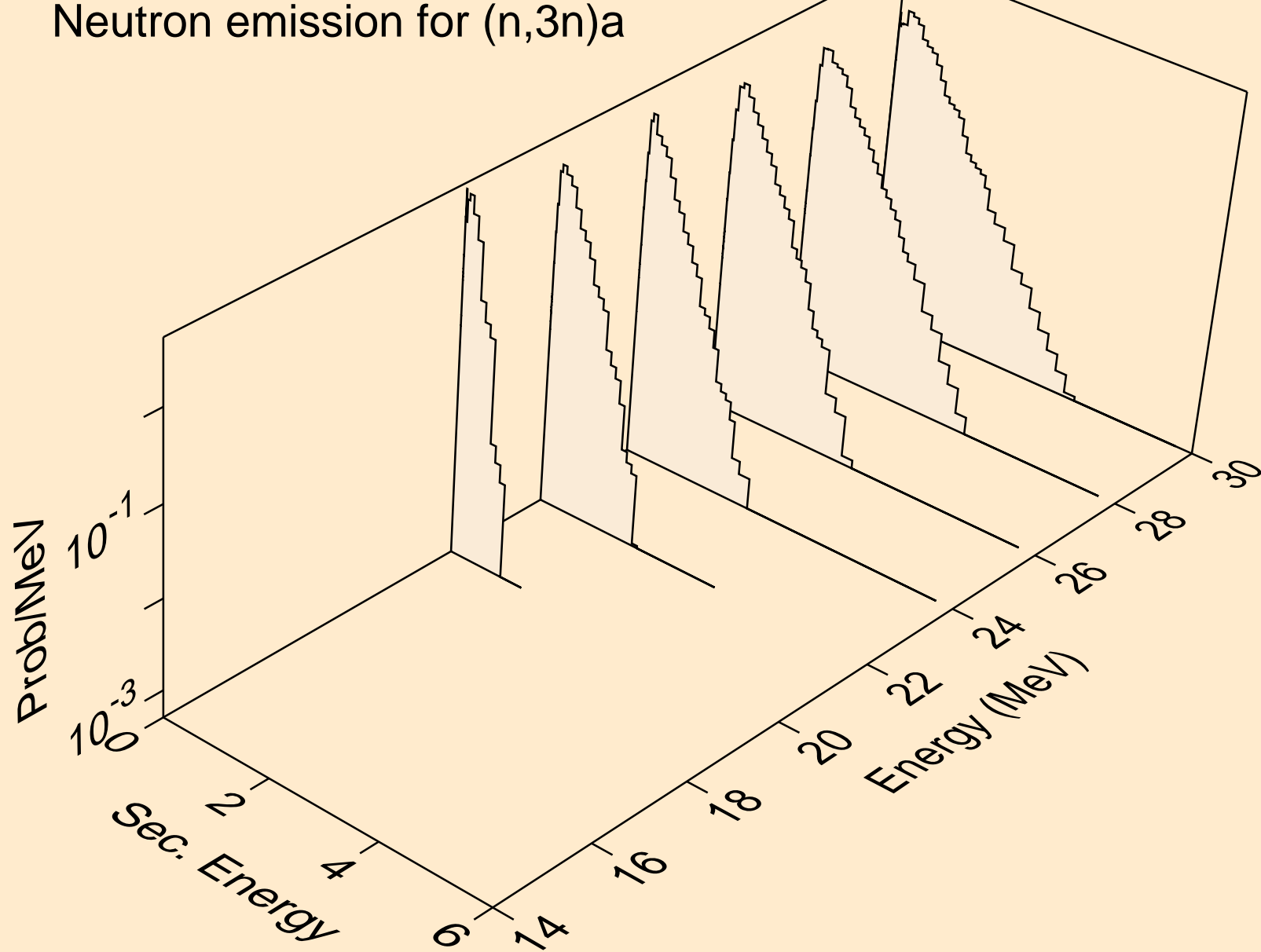
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



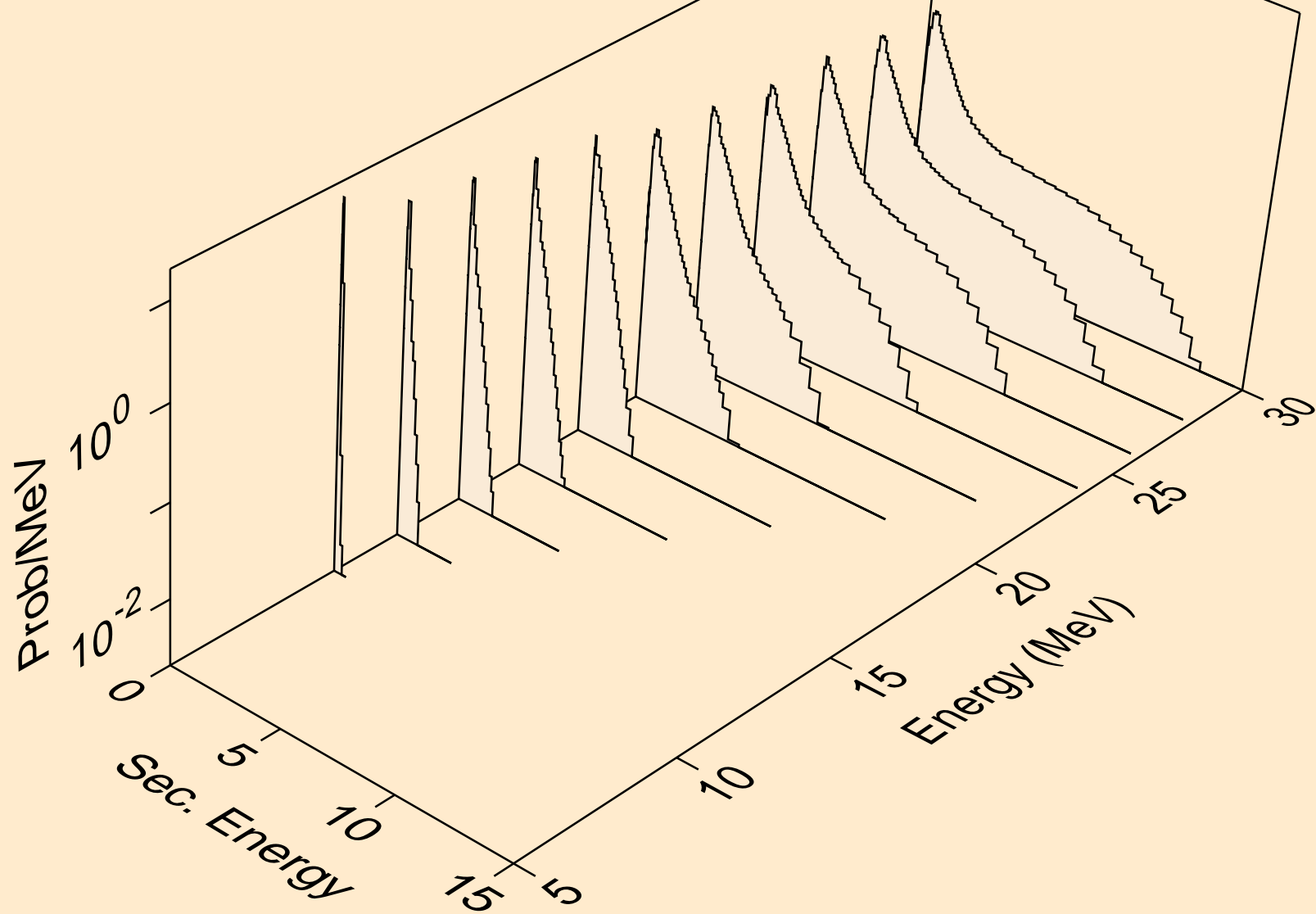
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



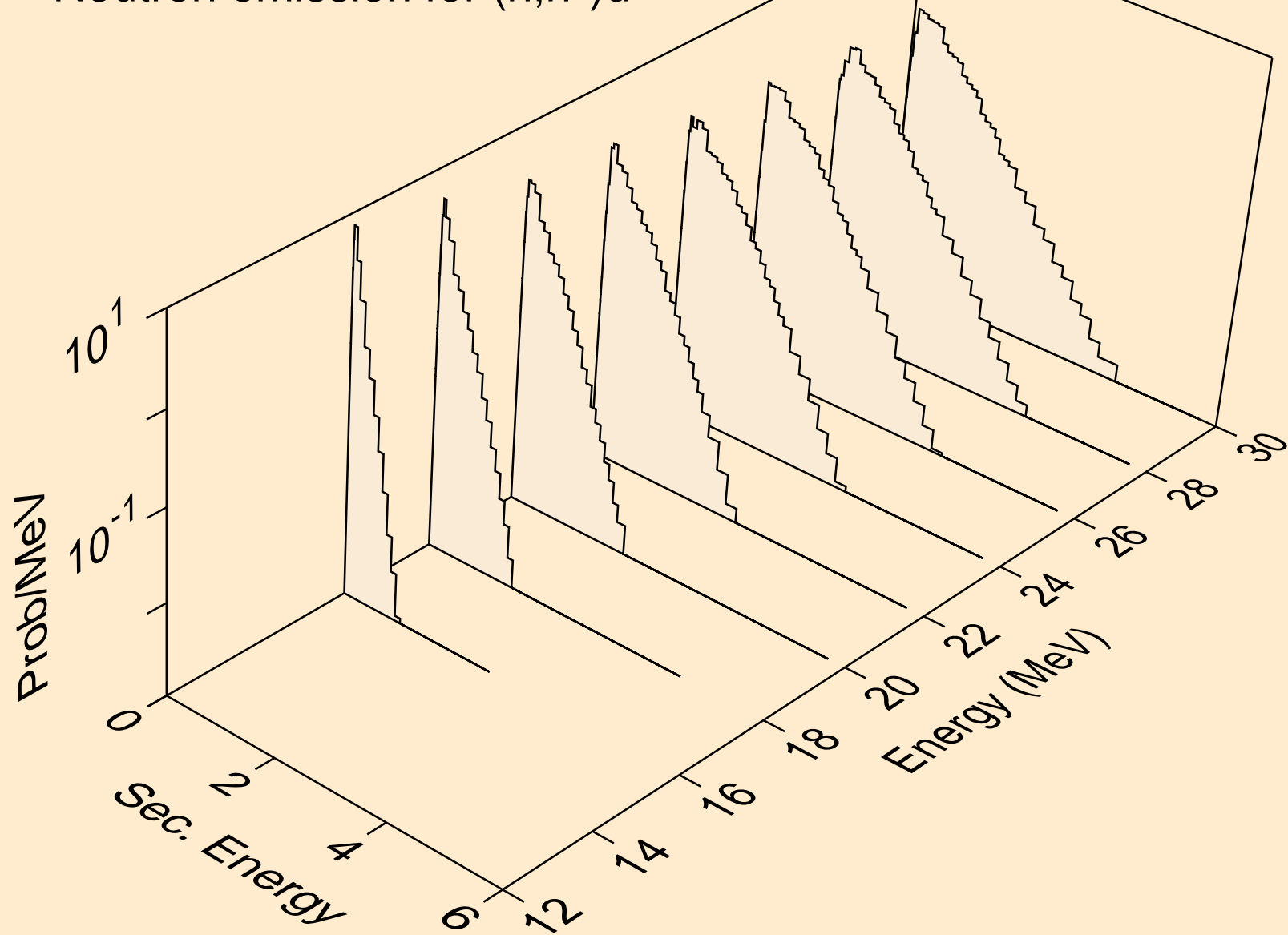
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



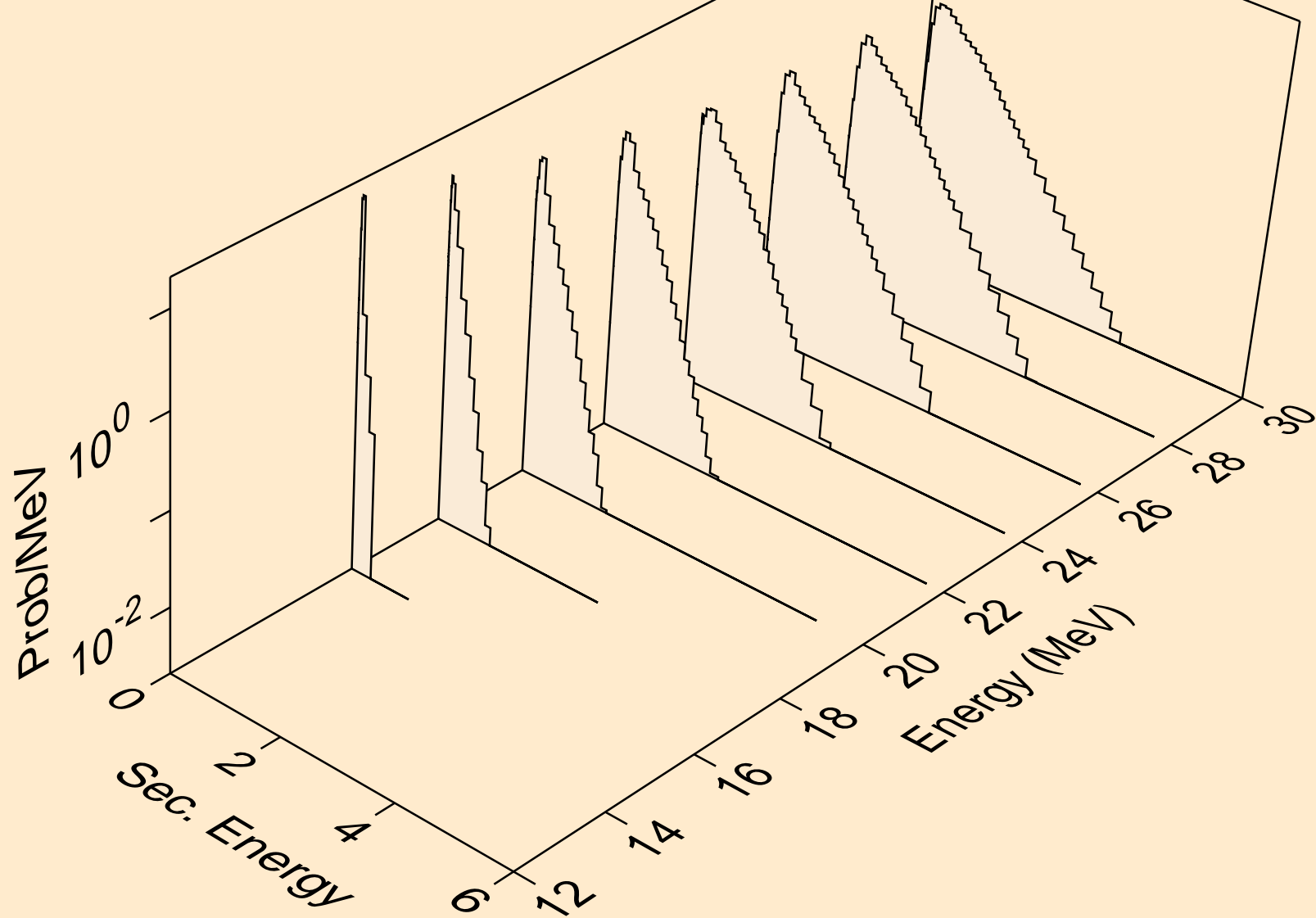
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

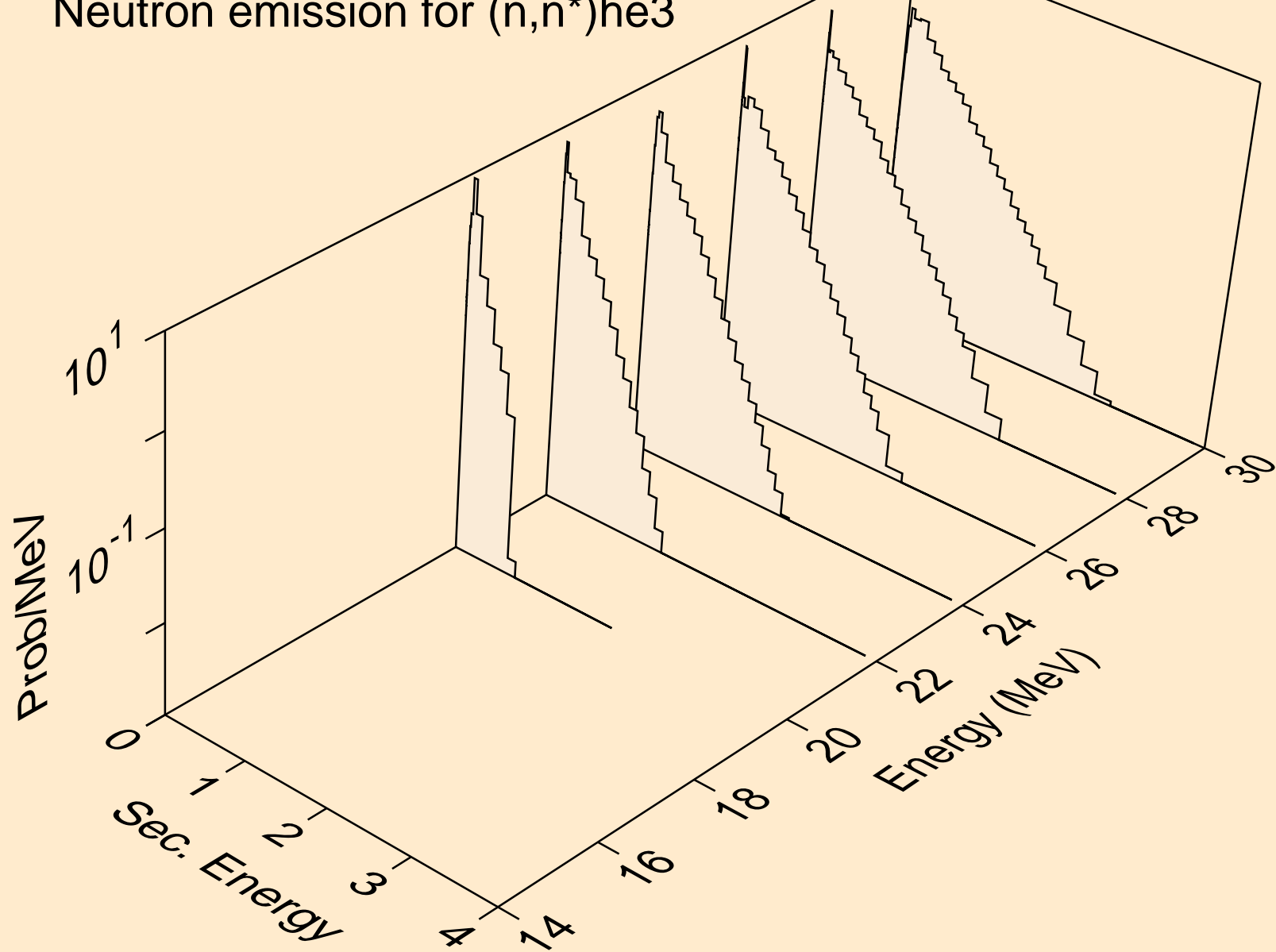


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

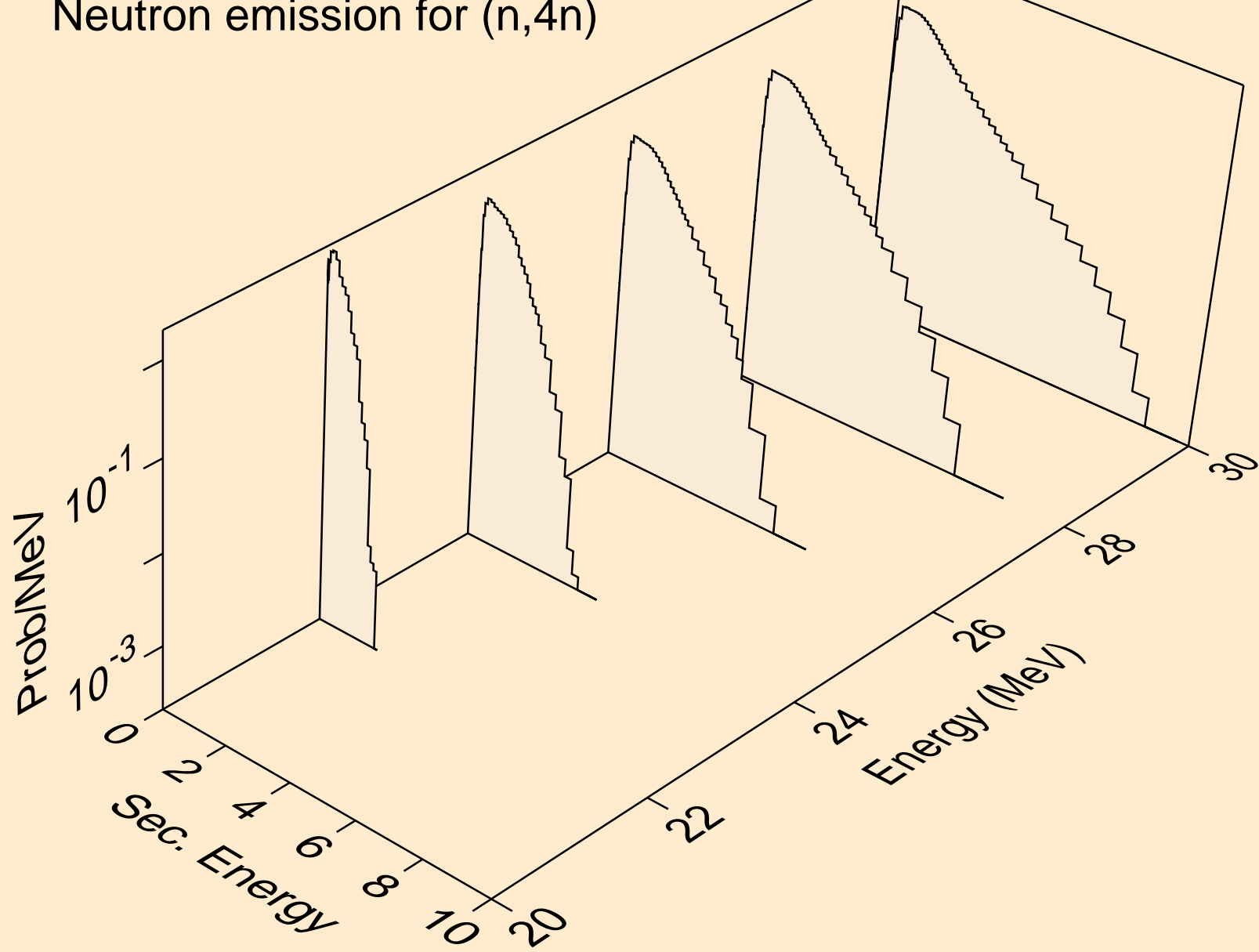




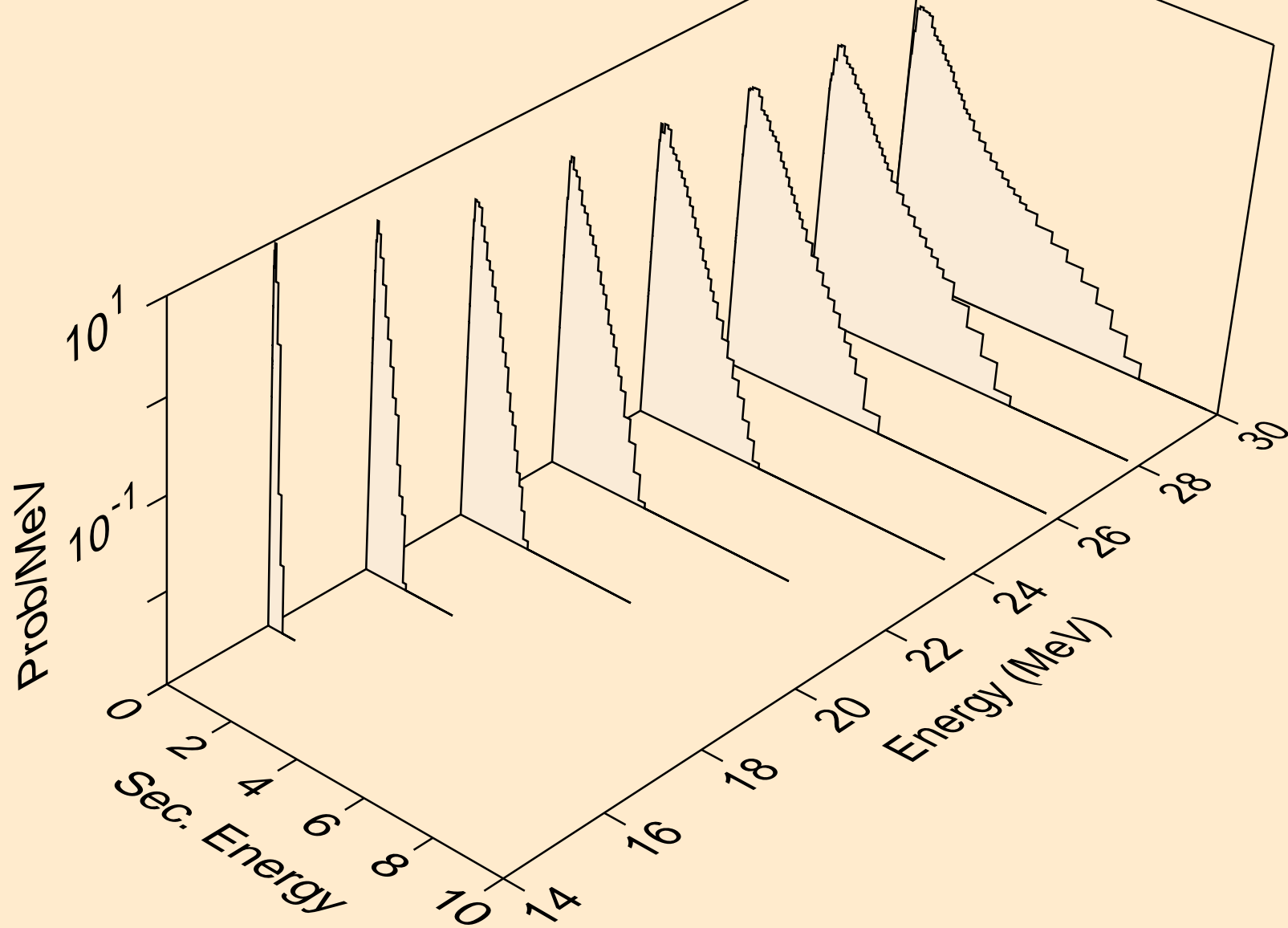
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



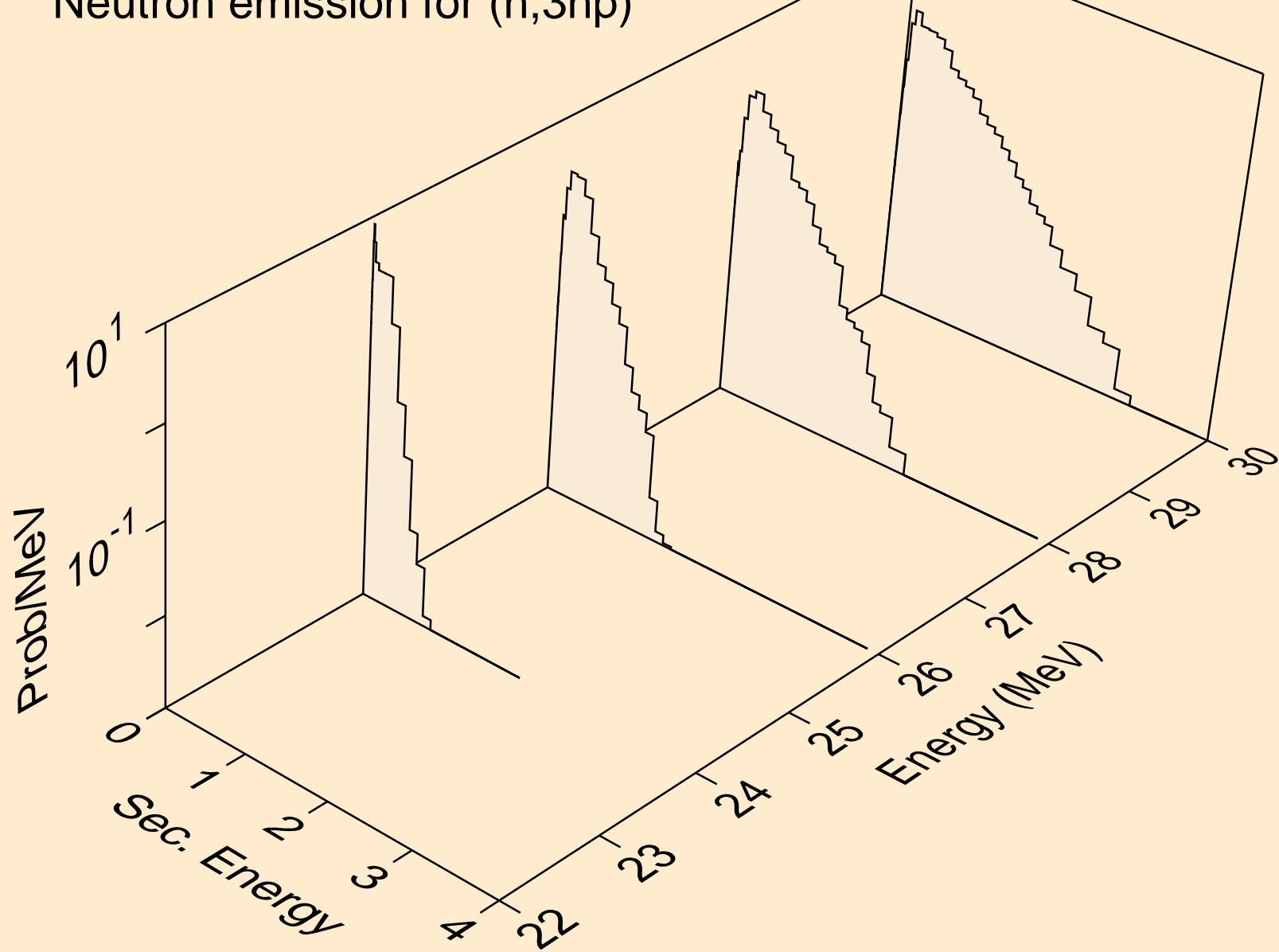
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



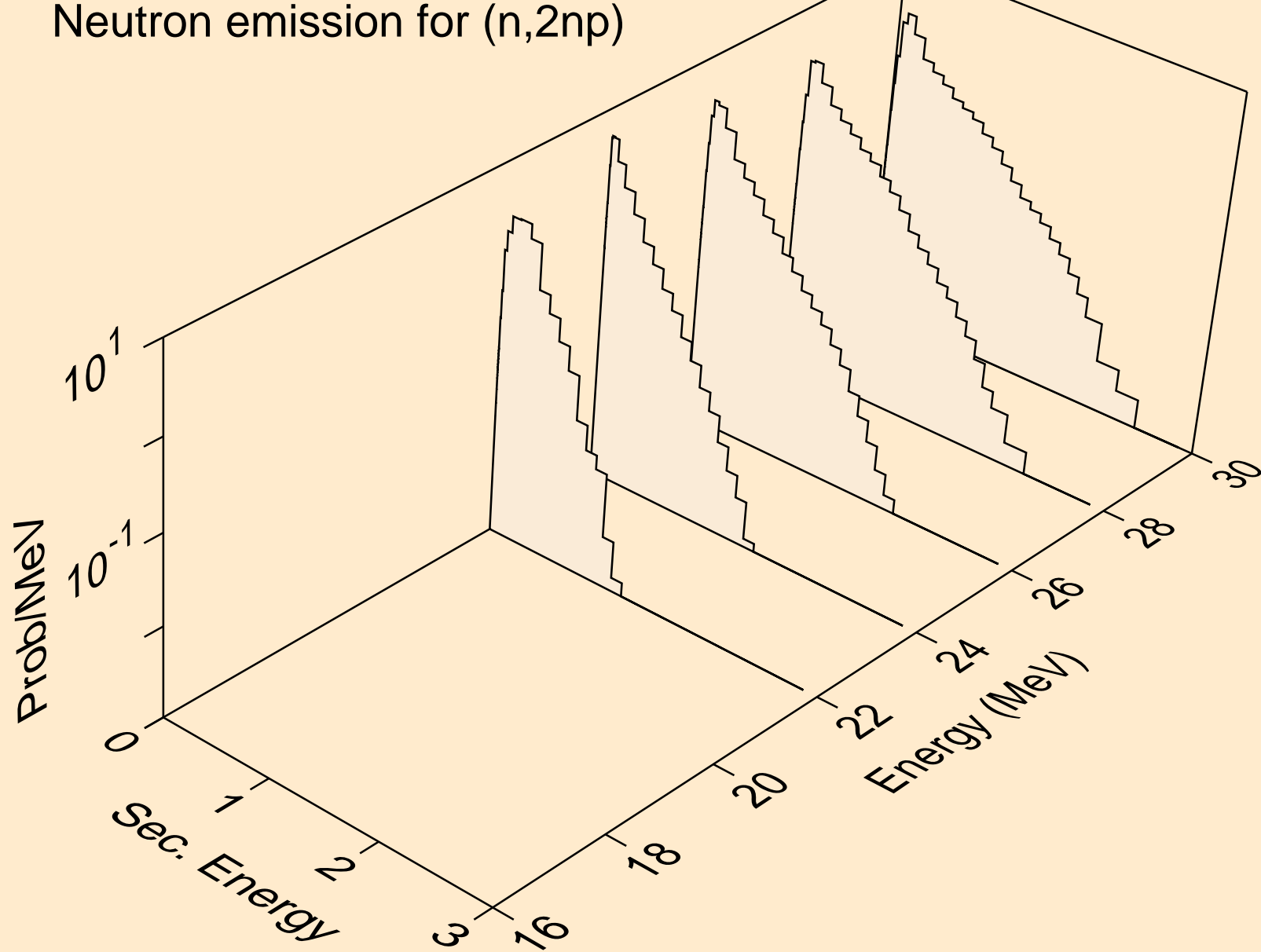
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



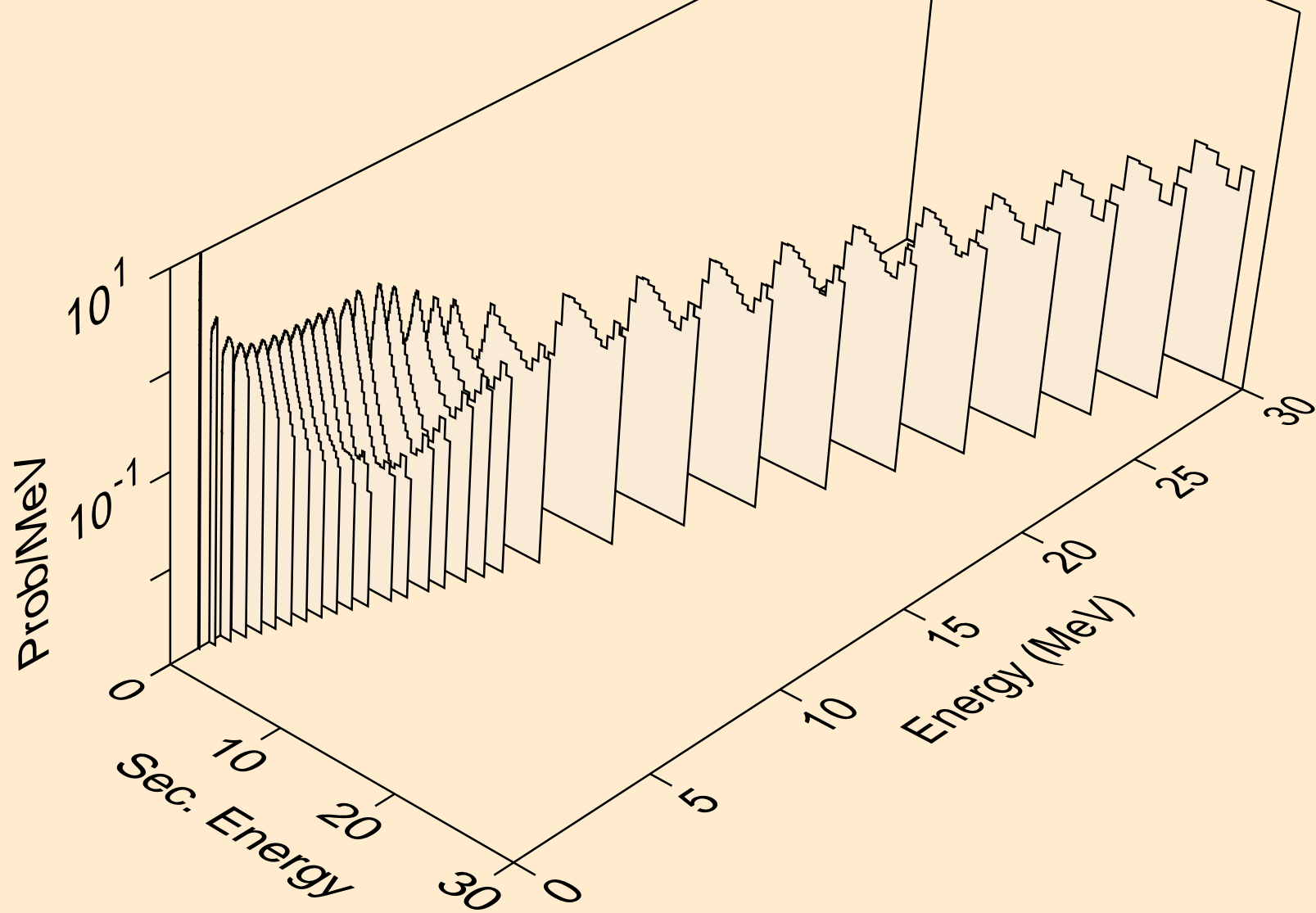
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Neutron emission for (n,3np)



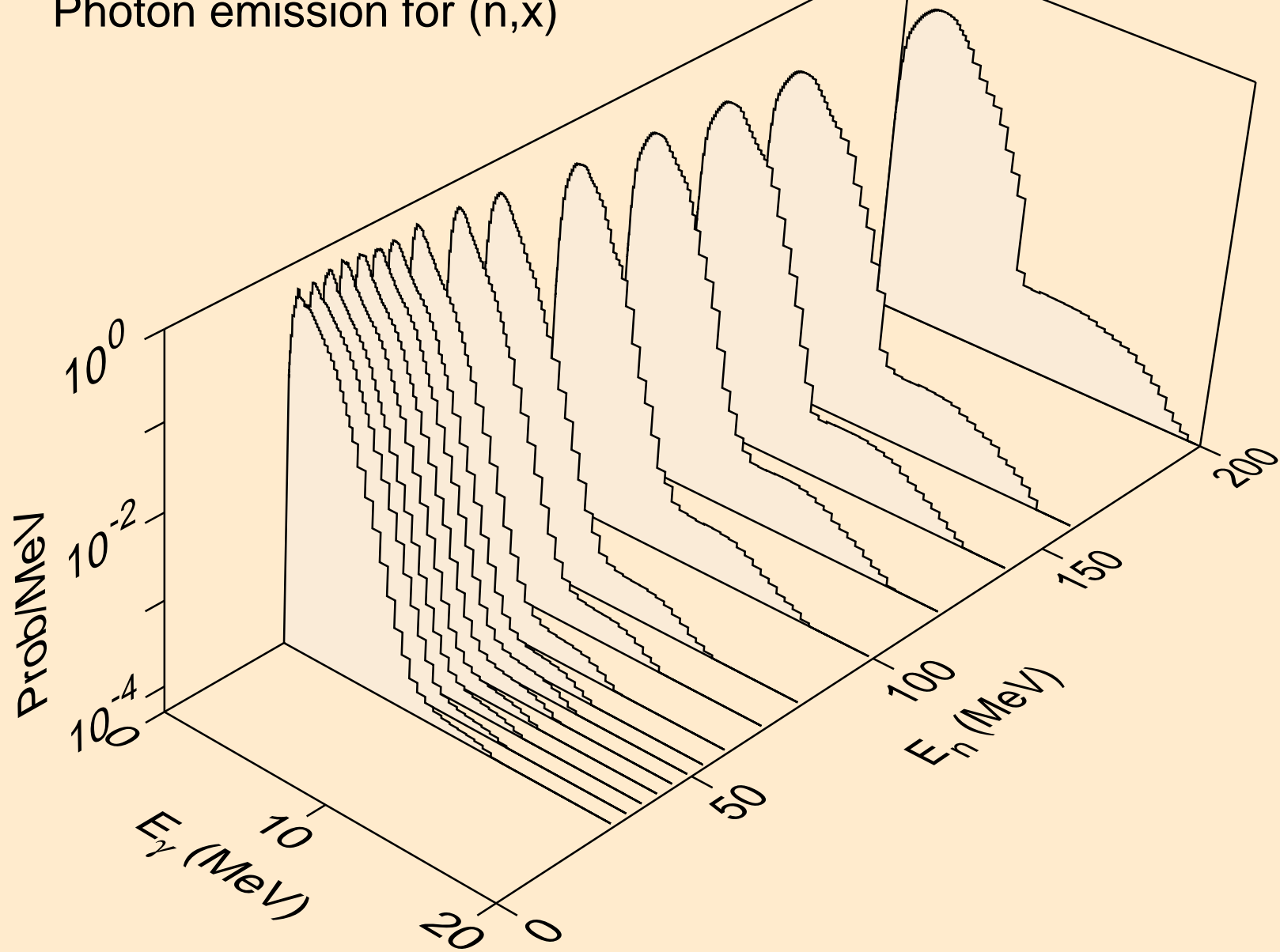
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Neutron emission for (n,2np)



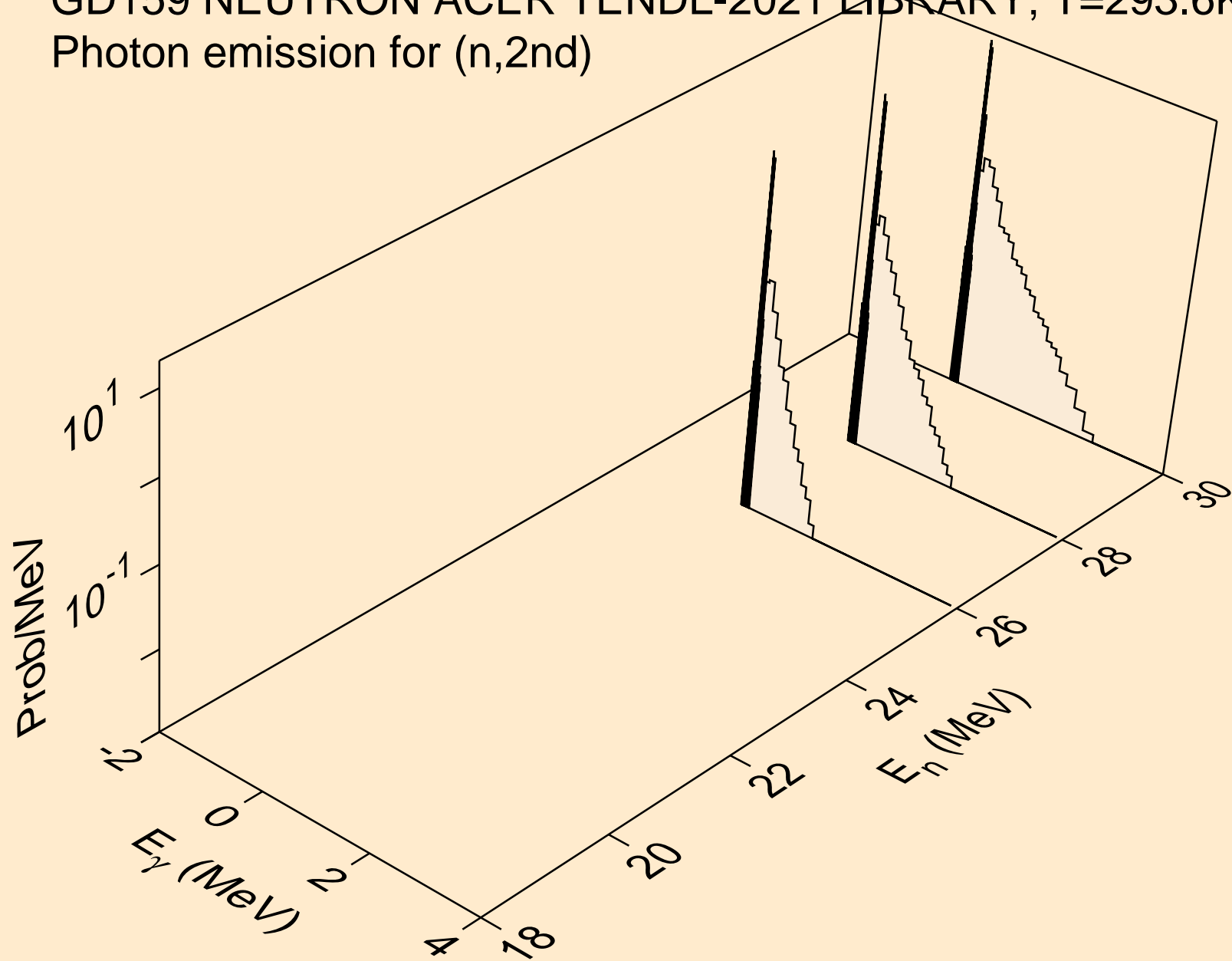
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)

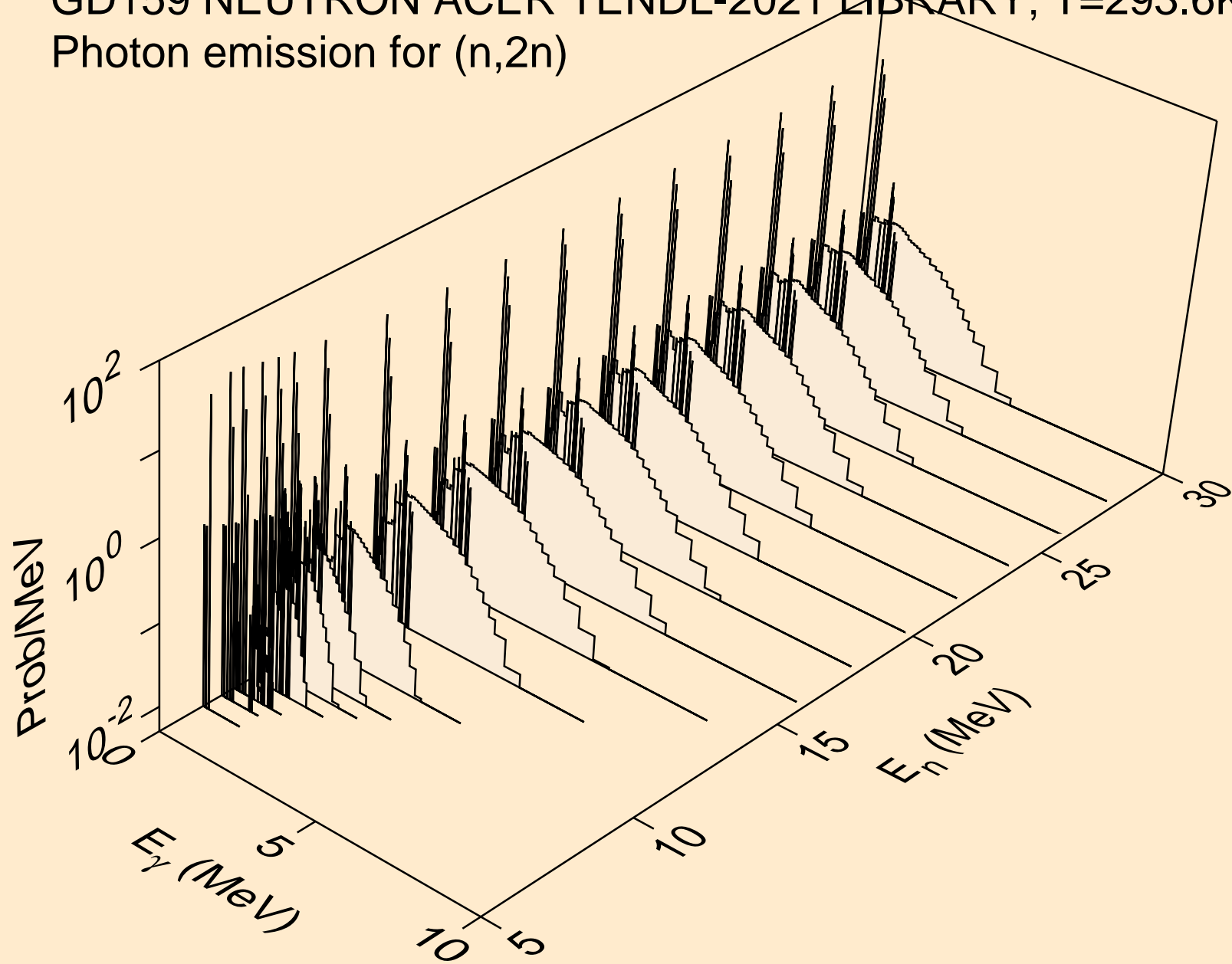


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)

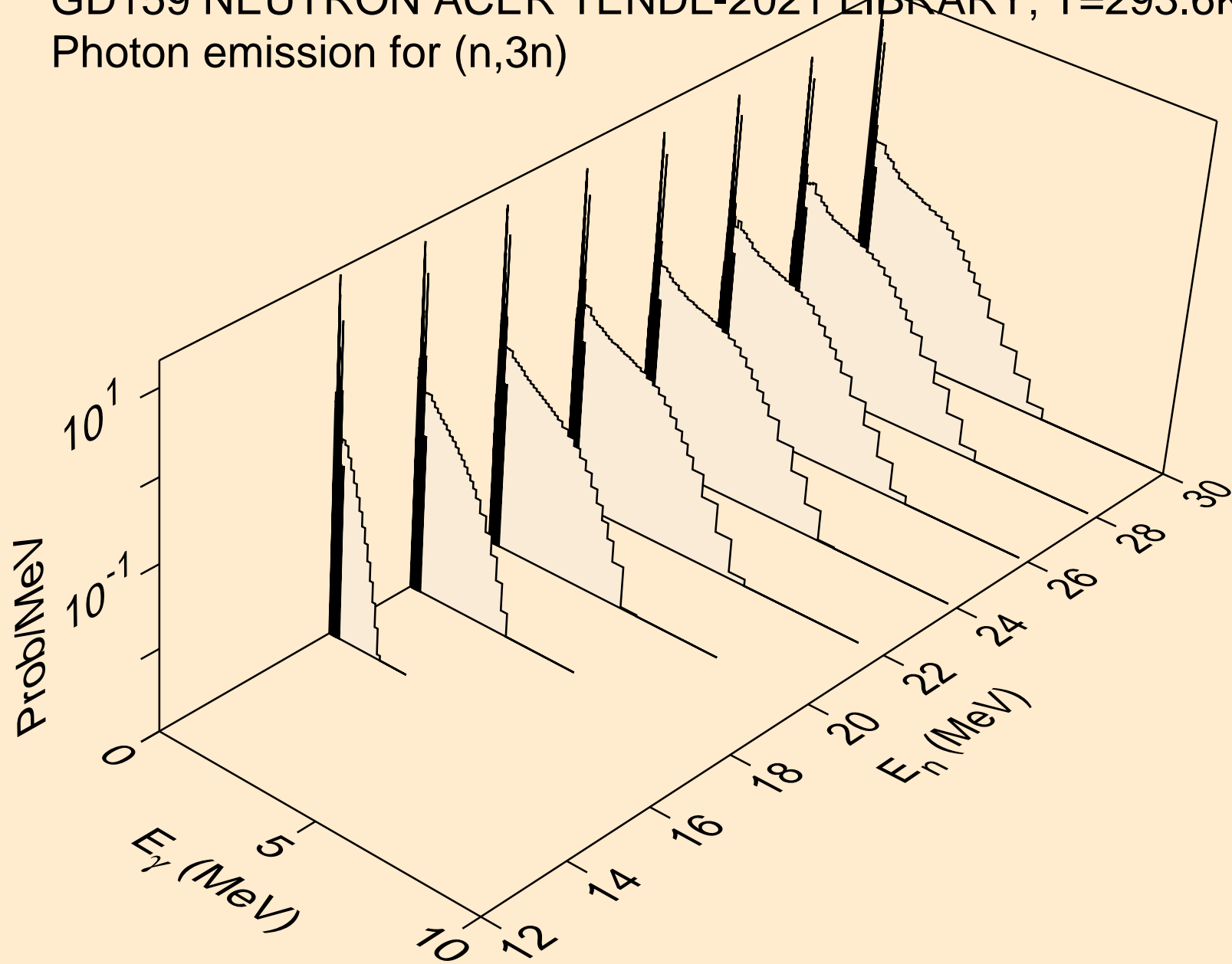




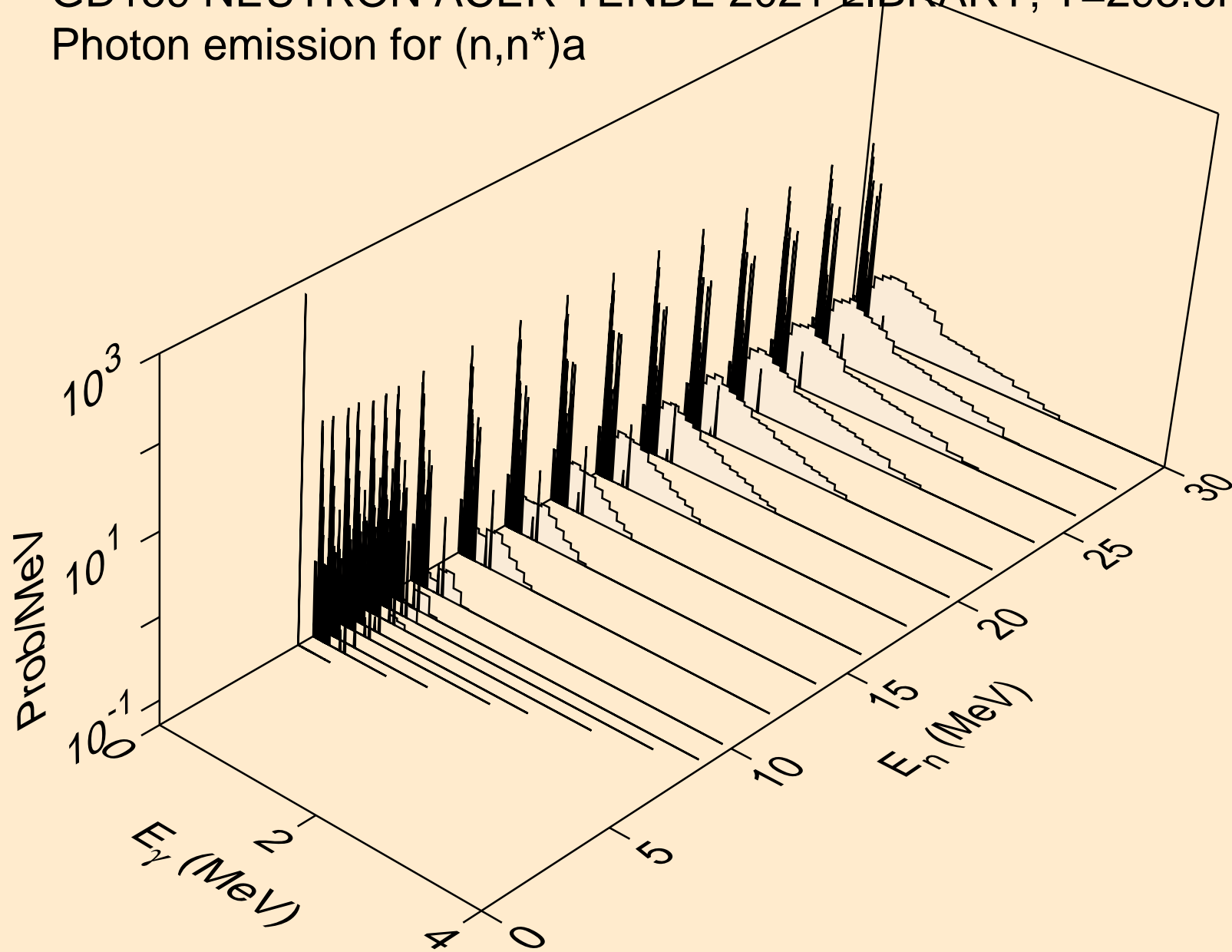
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Photon emission for (n,2n)



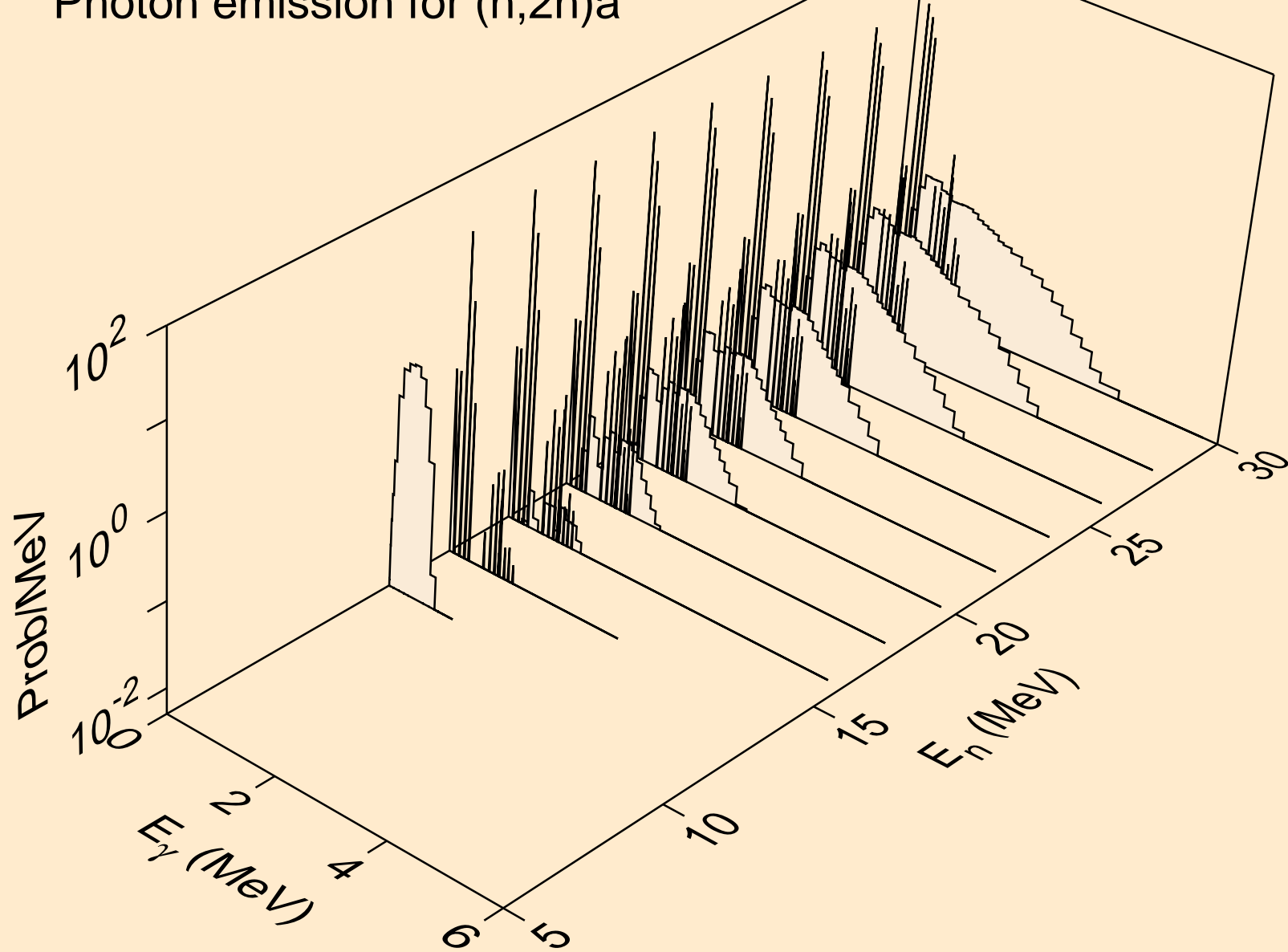
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



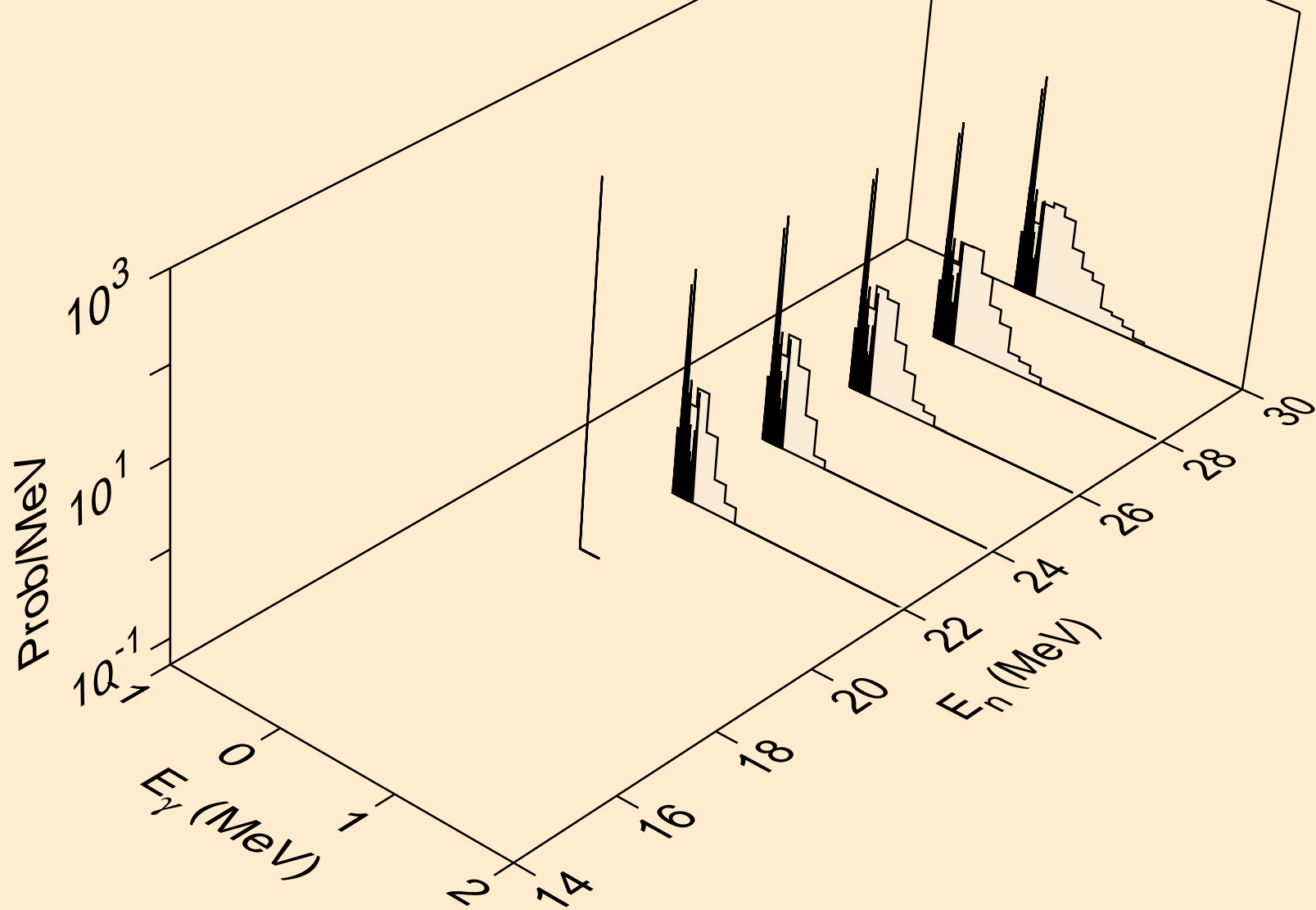
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



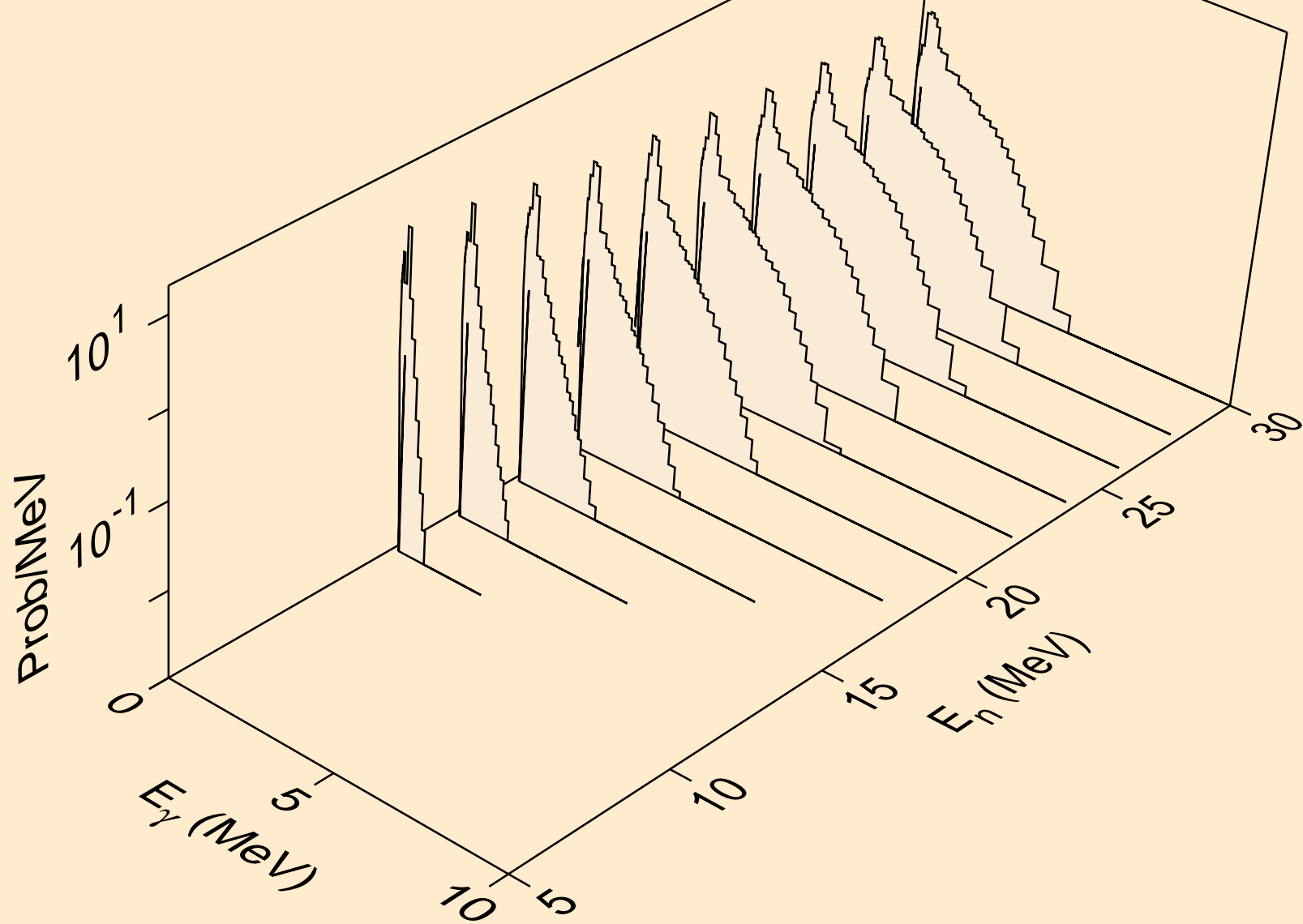
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



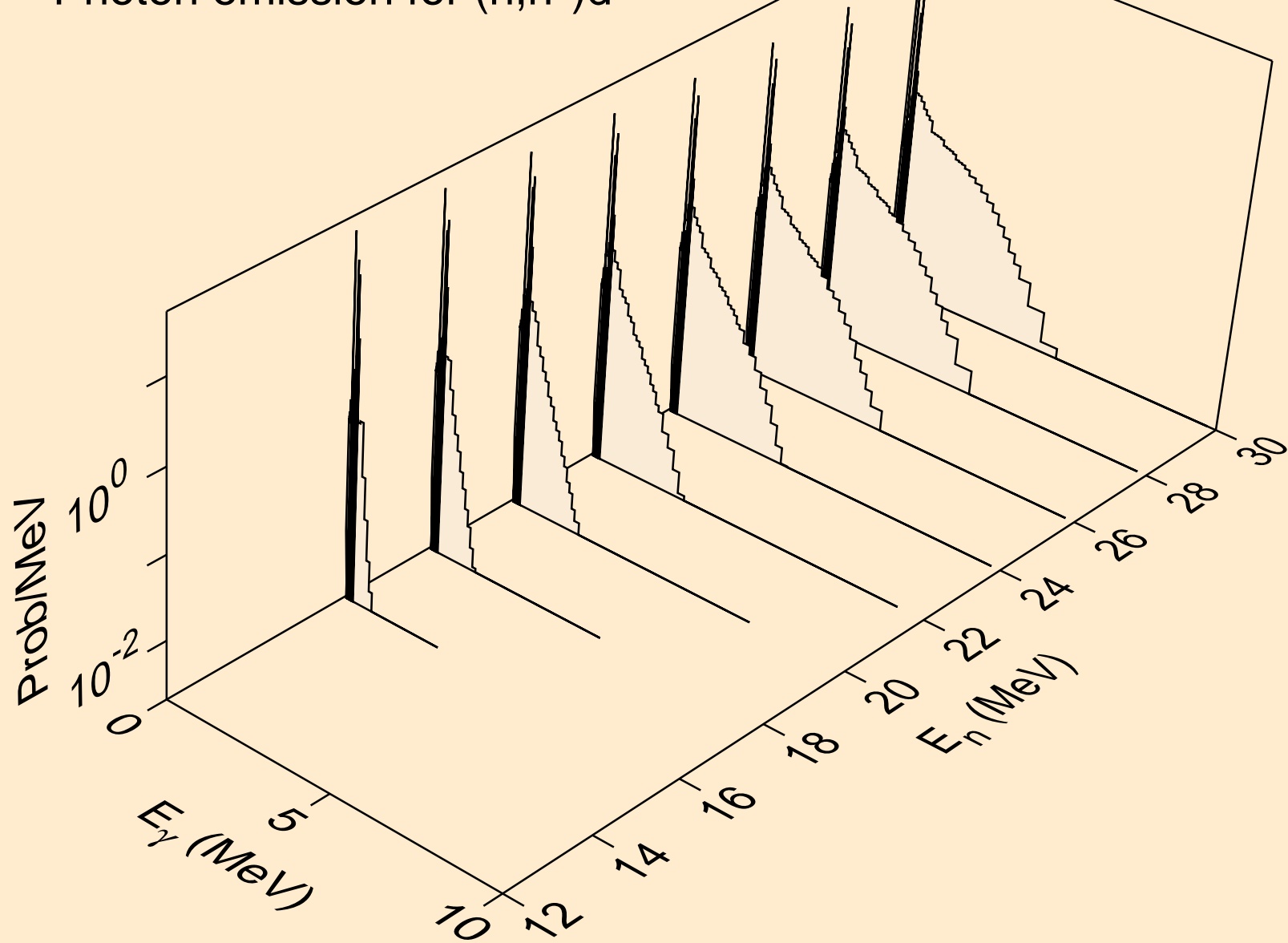
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a



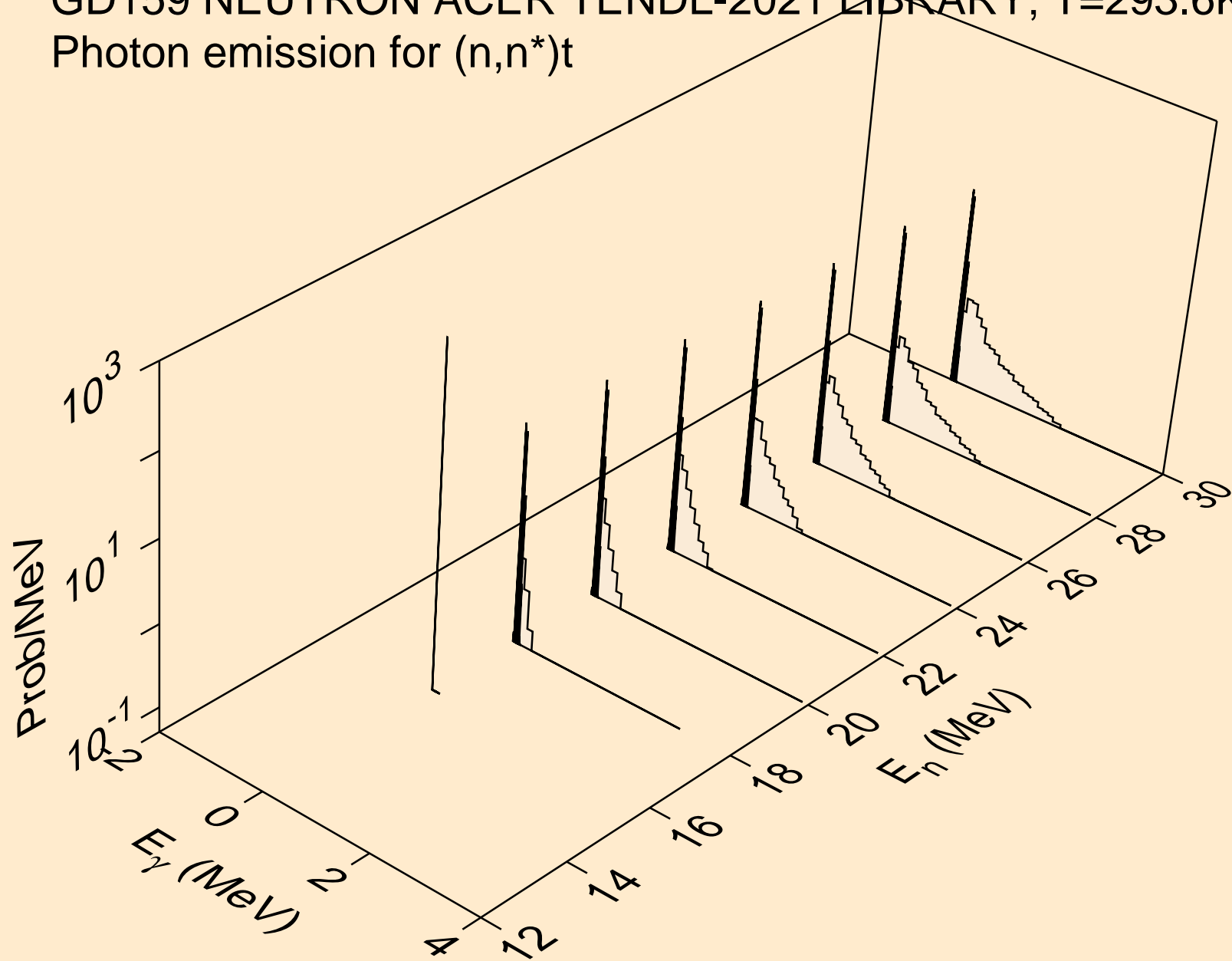
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d

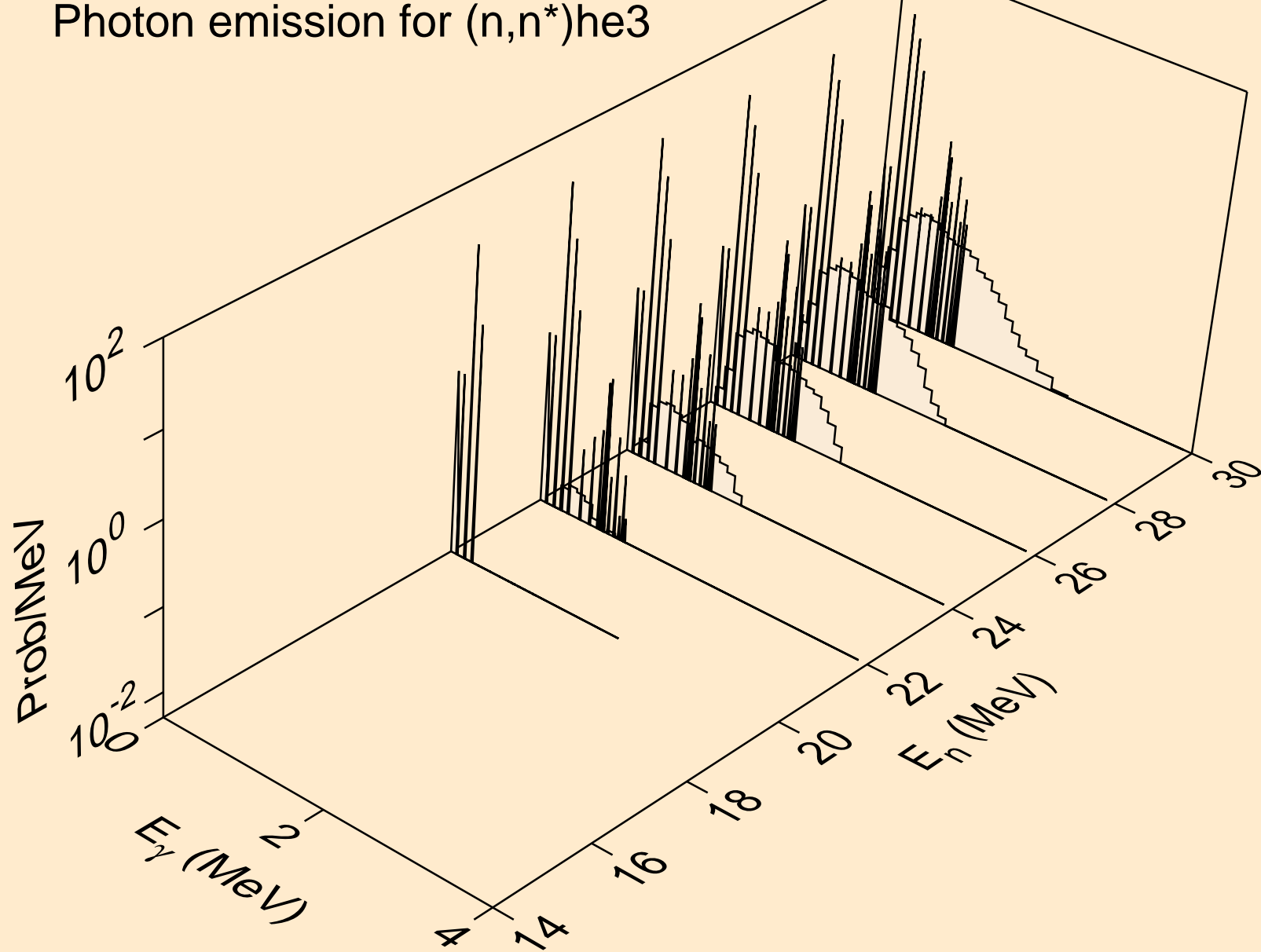


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t

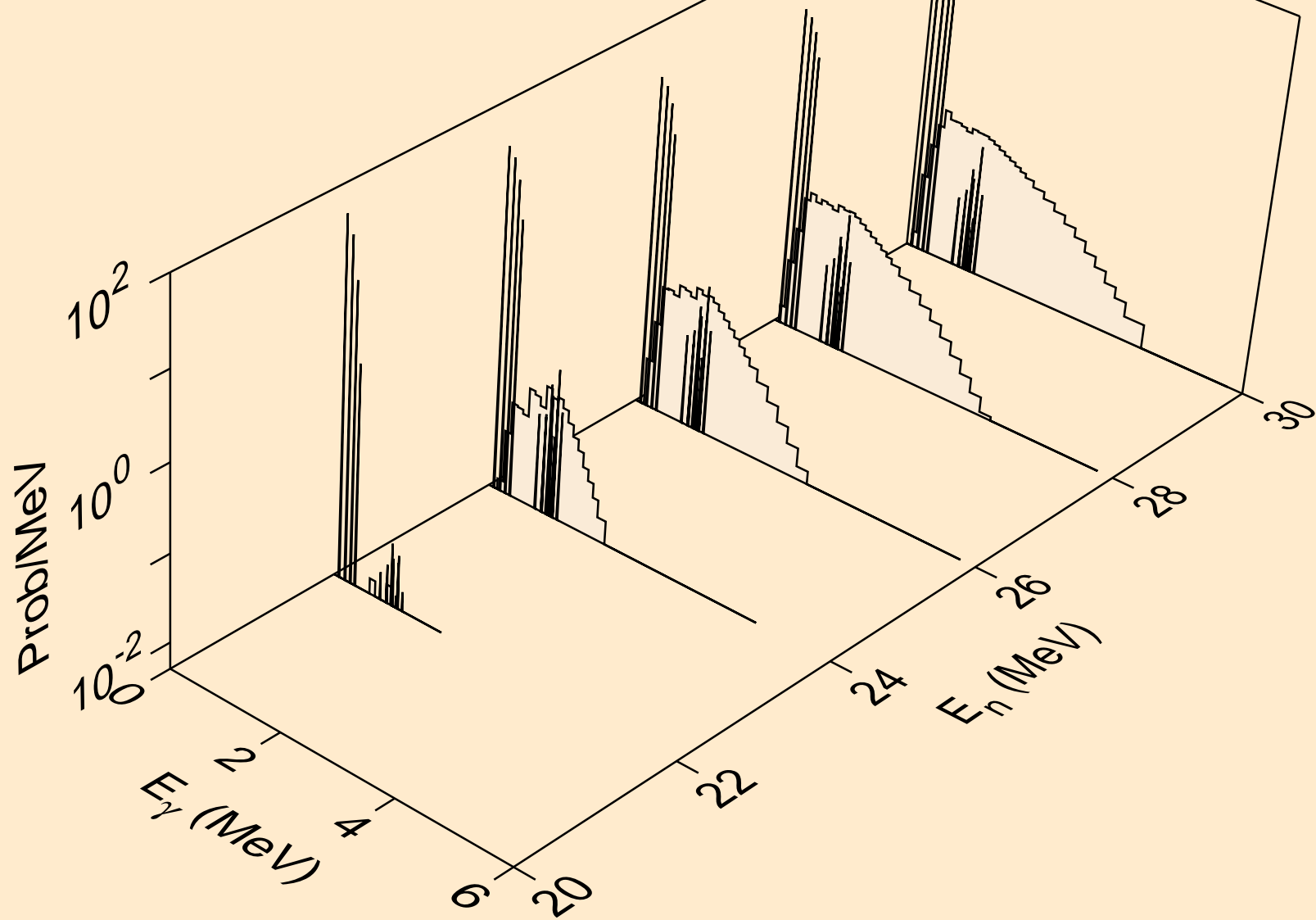




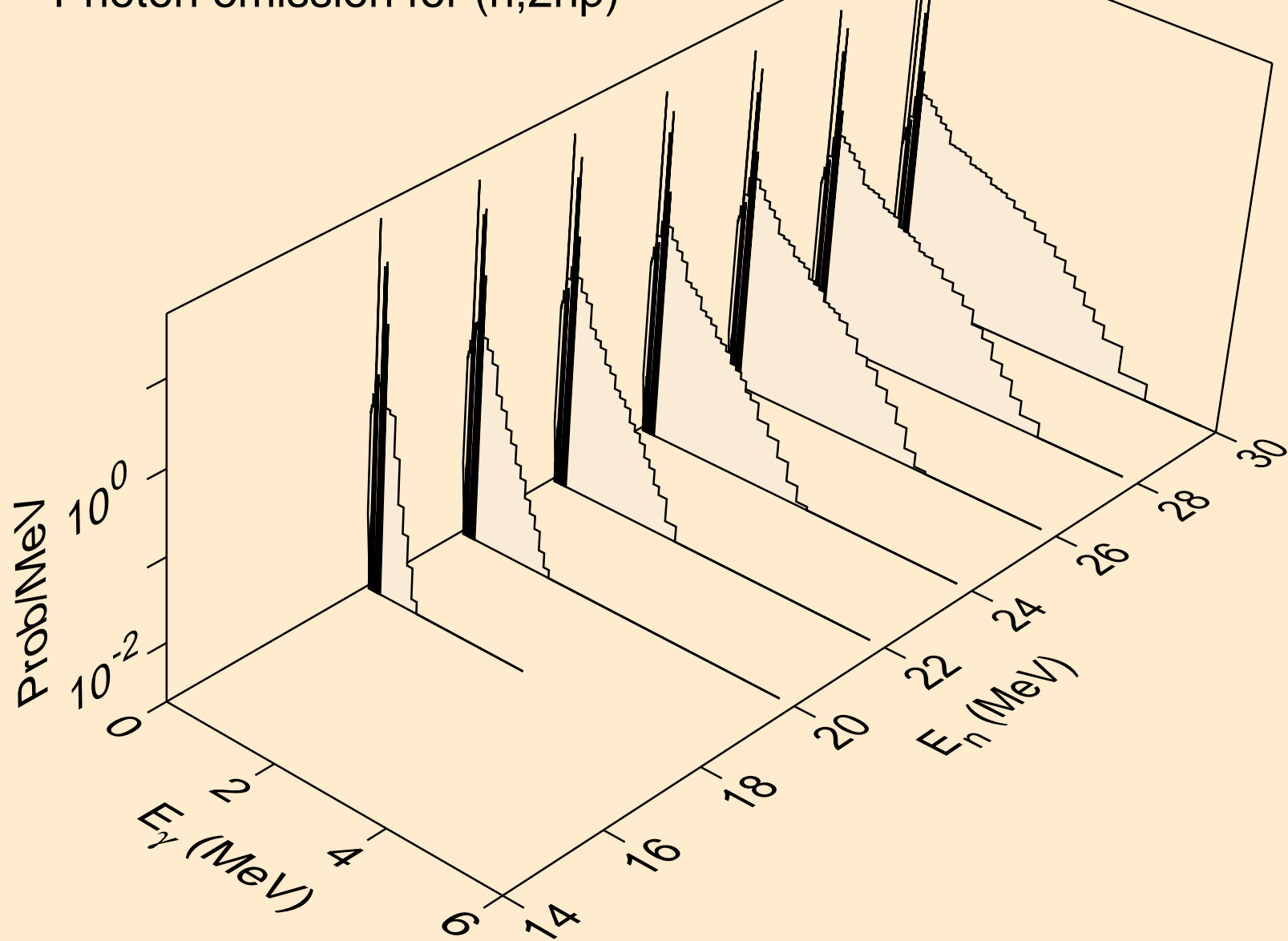
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



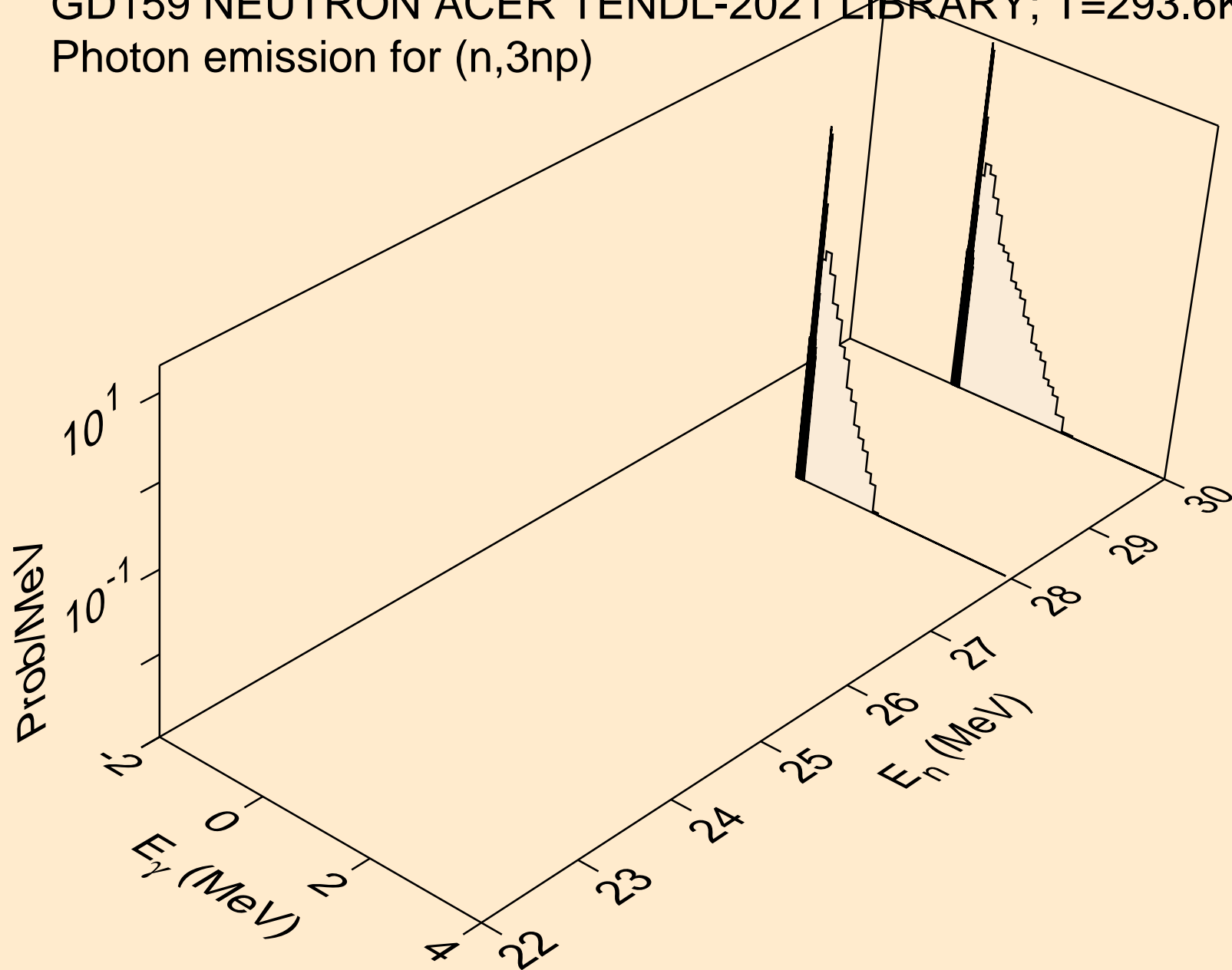
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,4n)



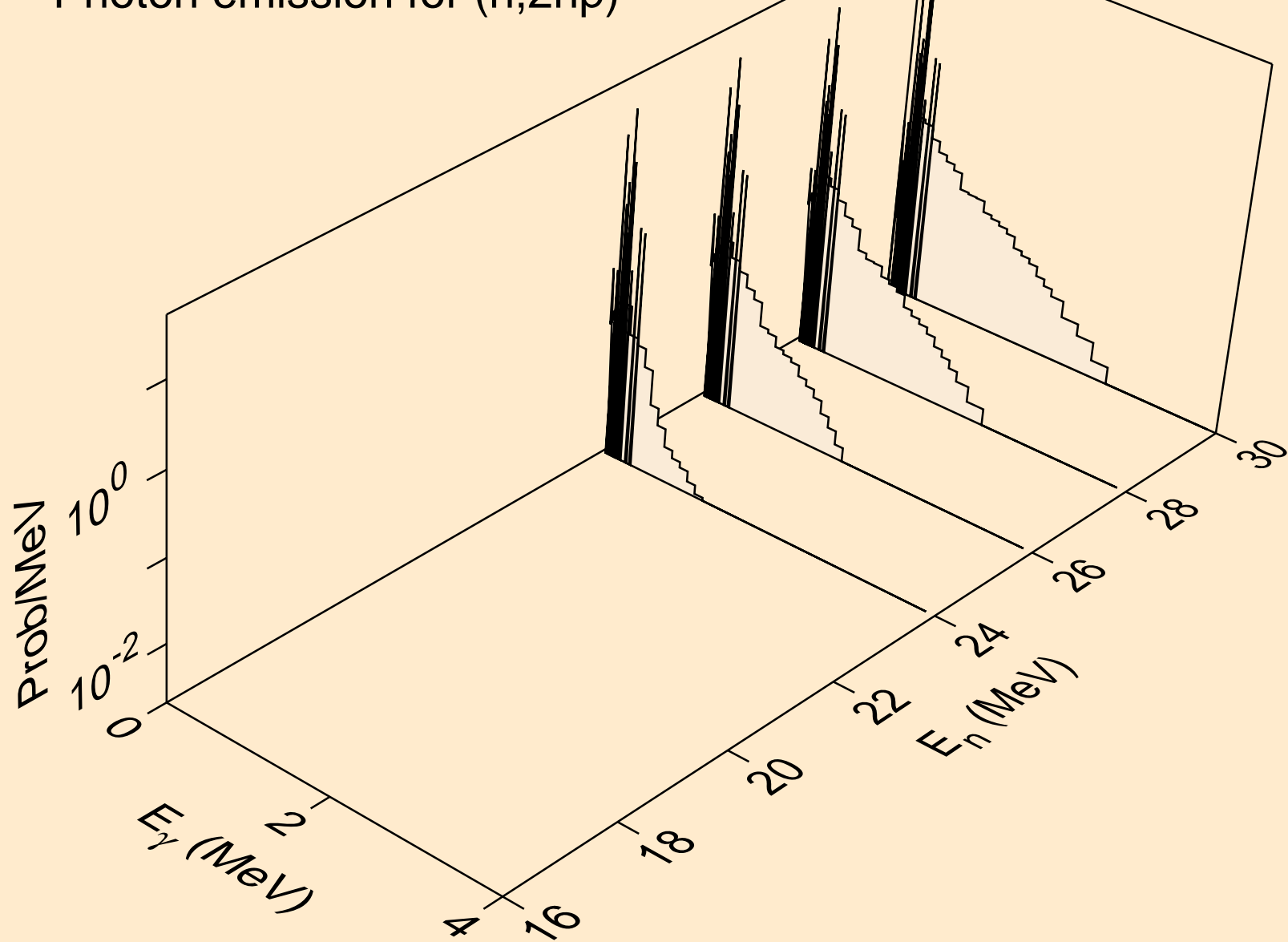
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Photon emission for (n,2np)



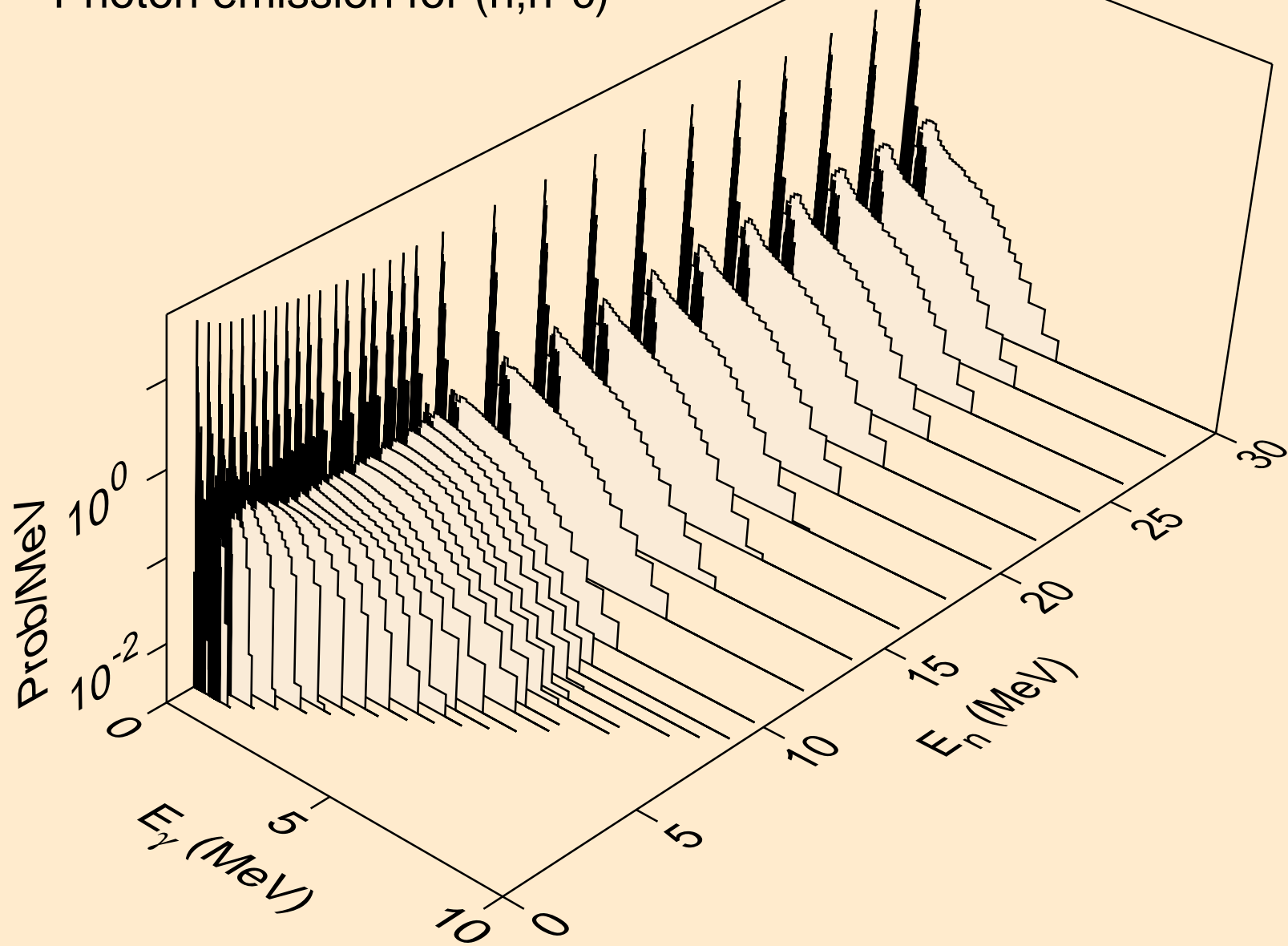
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Photon emission for (n,3np)



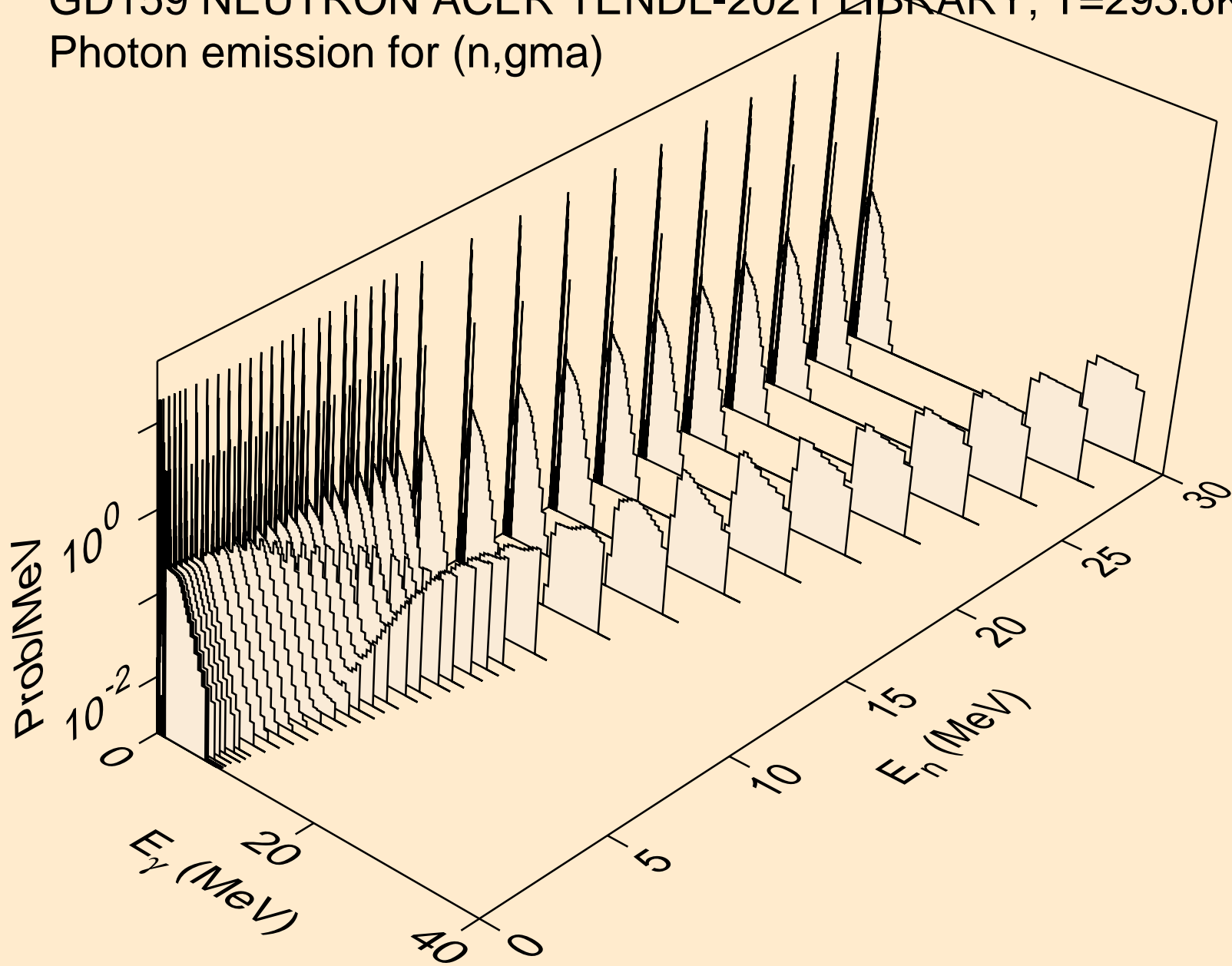
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Photon emission for (n,2np)



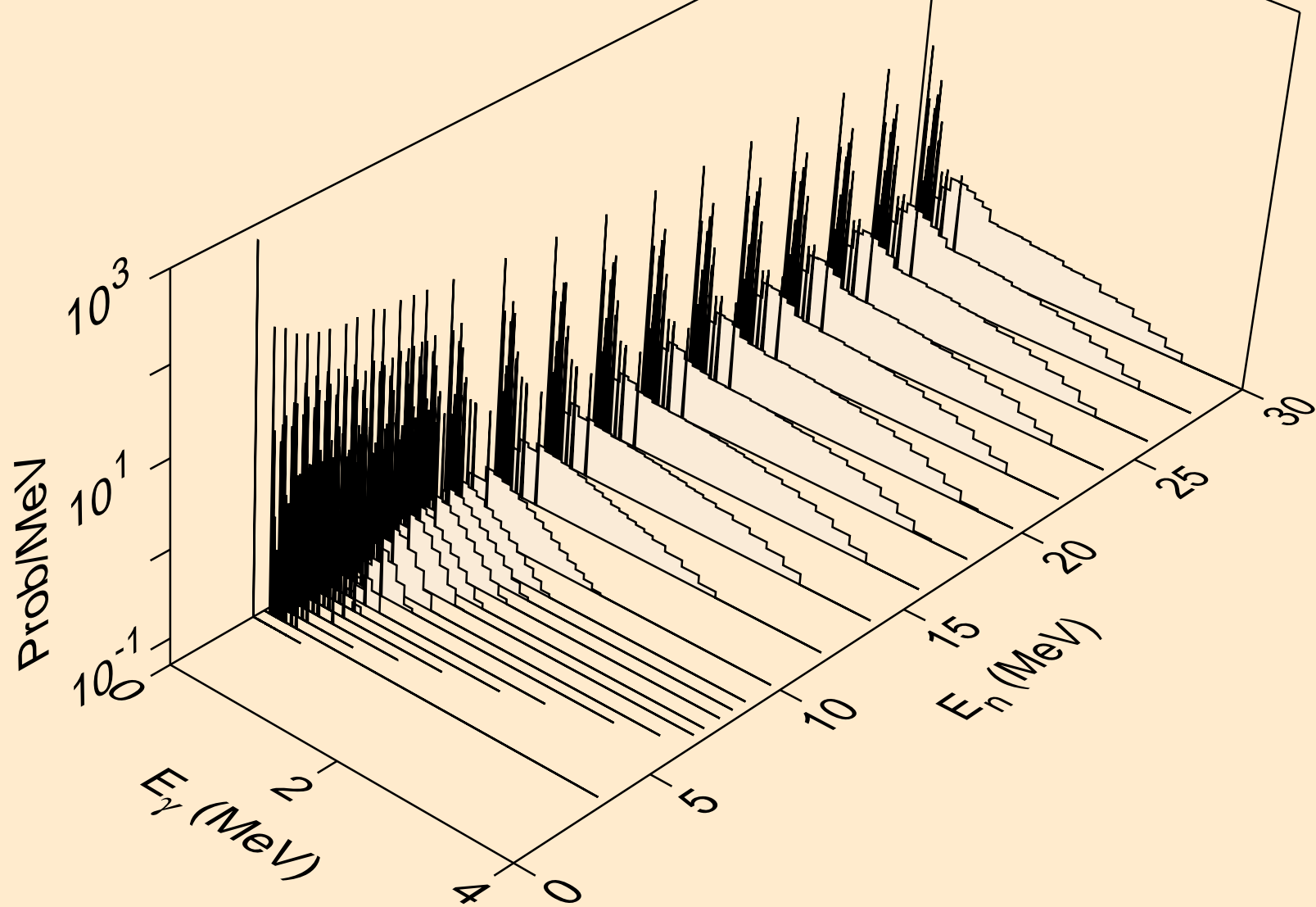
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)

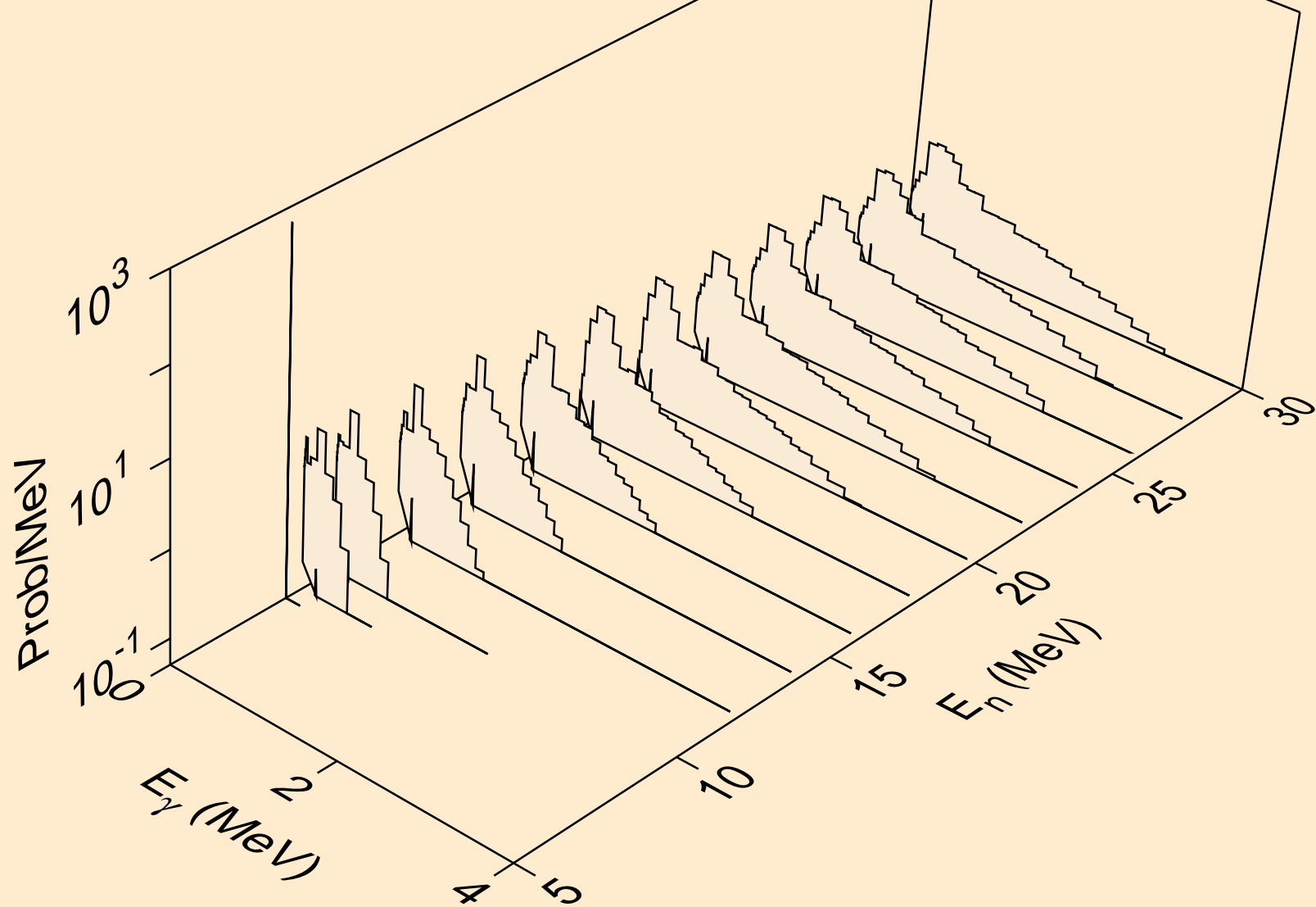


GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)

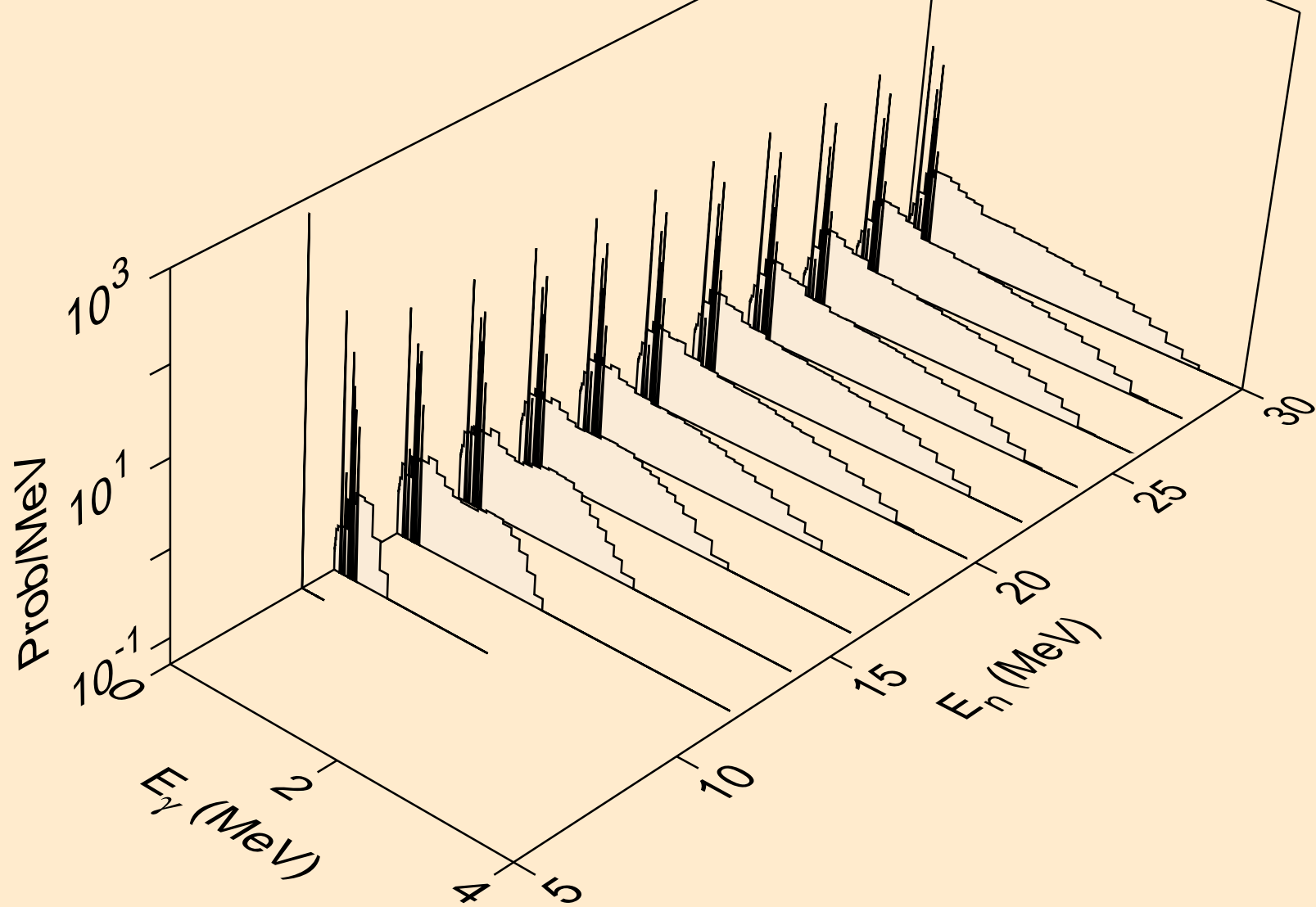




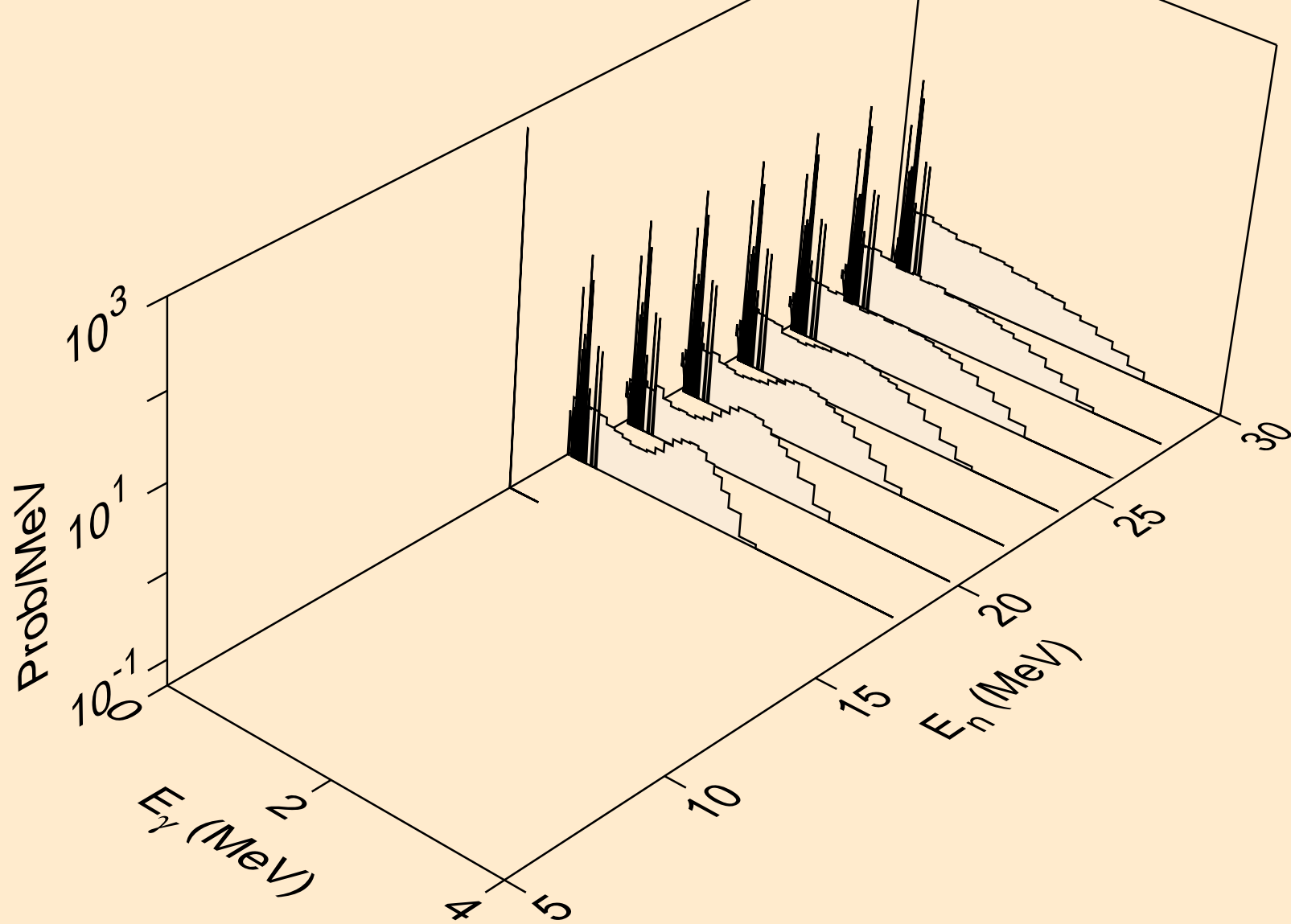
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Photon emission for (n,d)



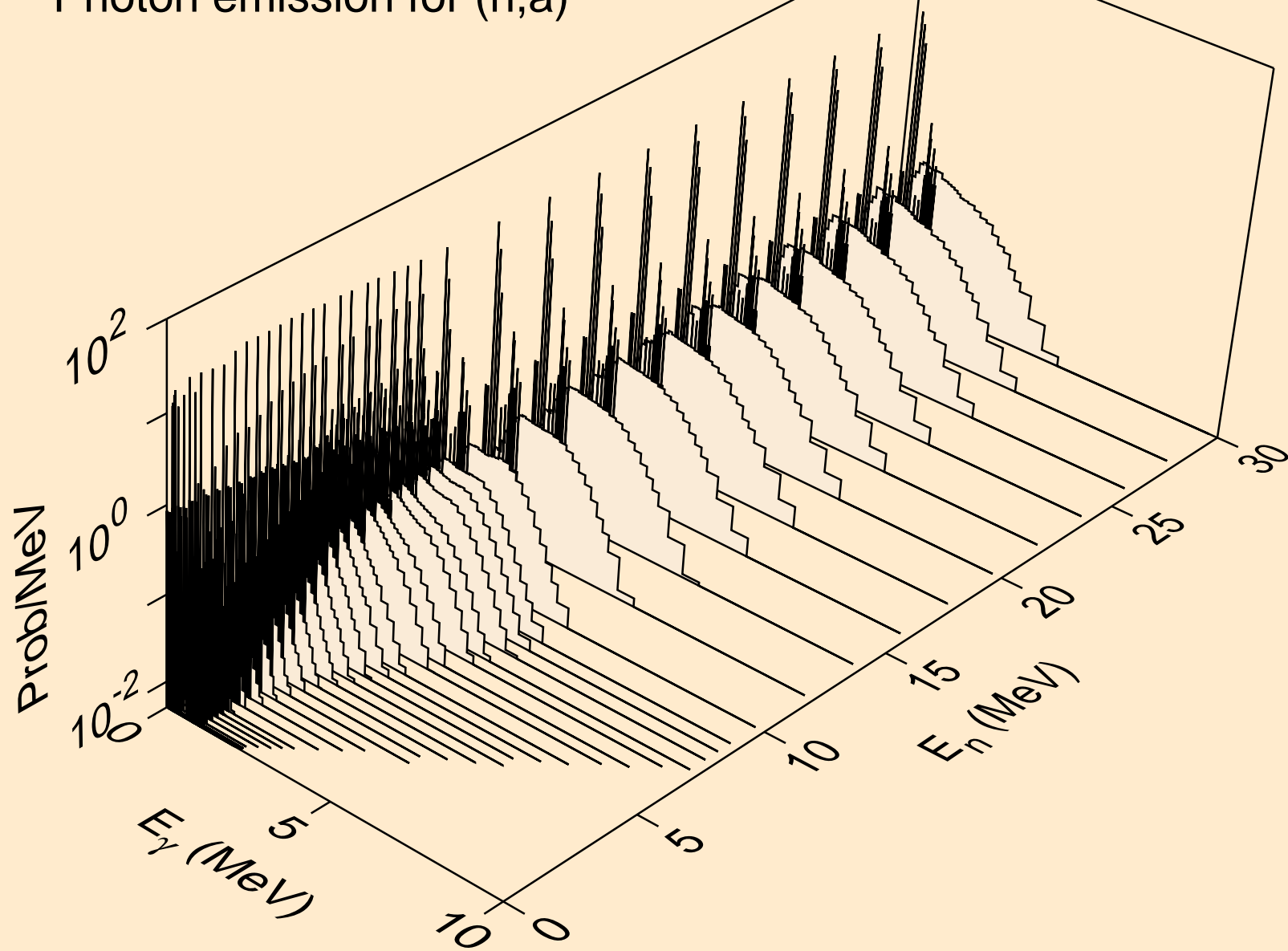
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



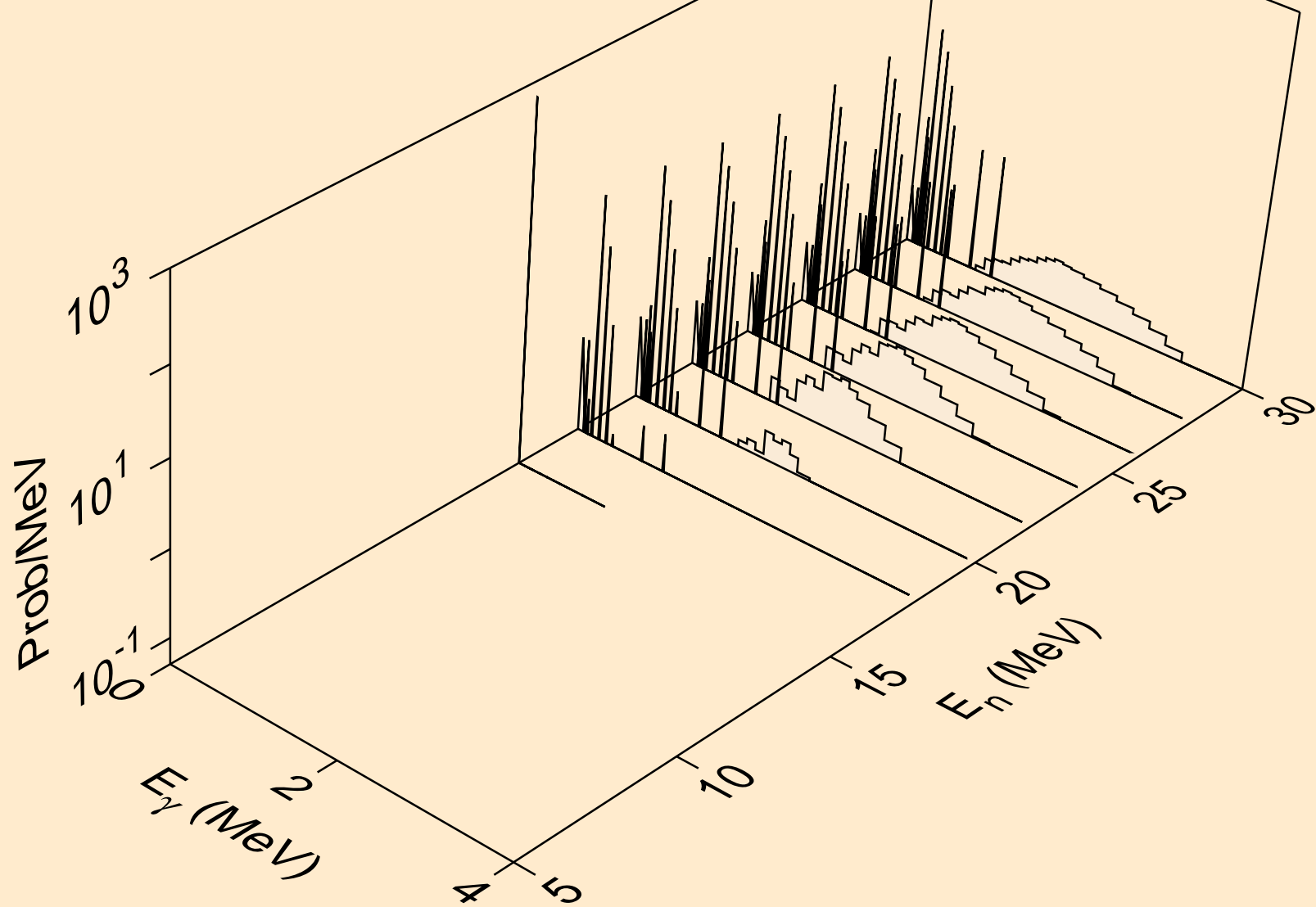
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Photon emission for (n,he3)



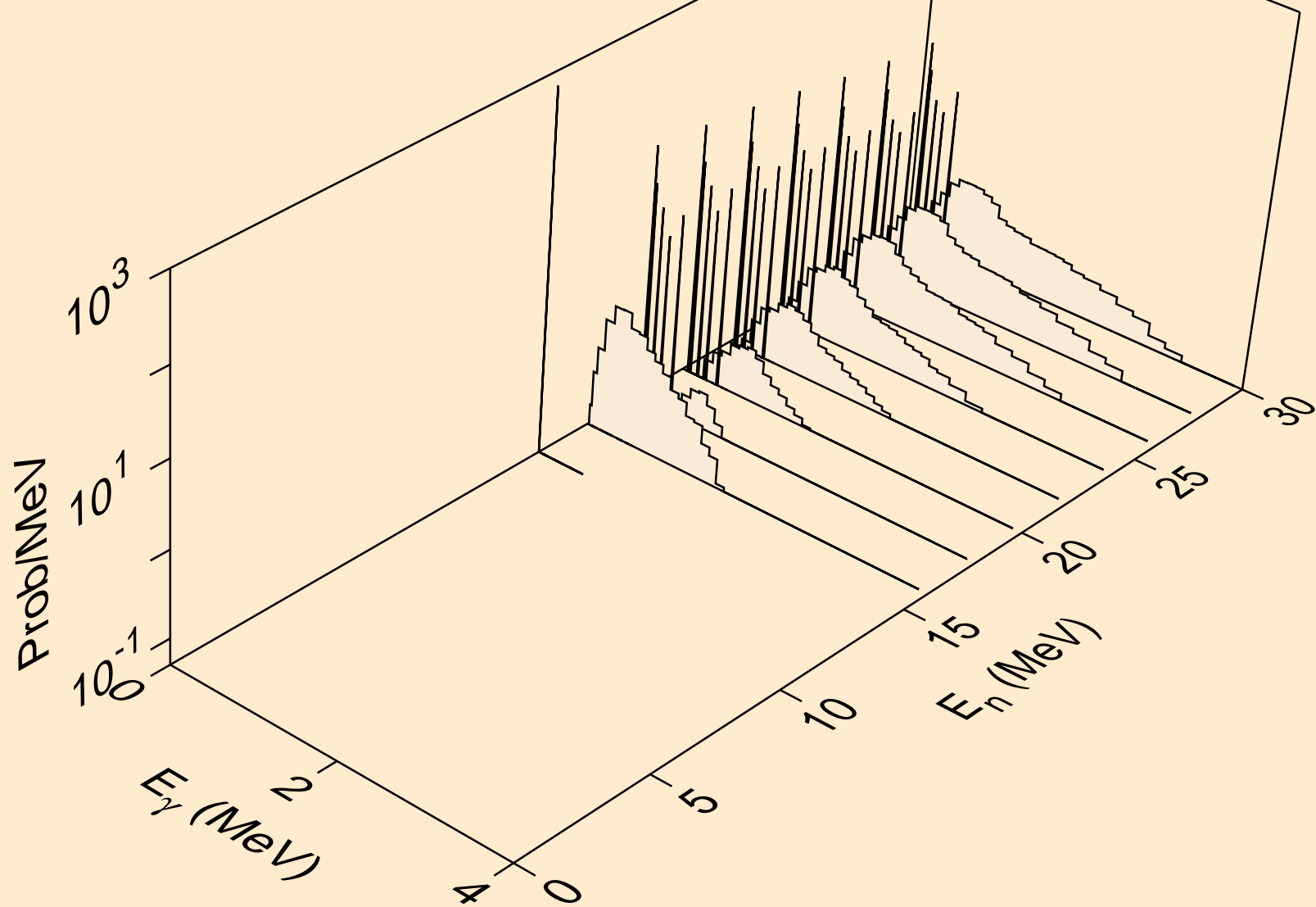
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Photon emission for (n,a)



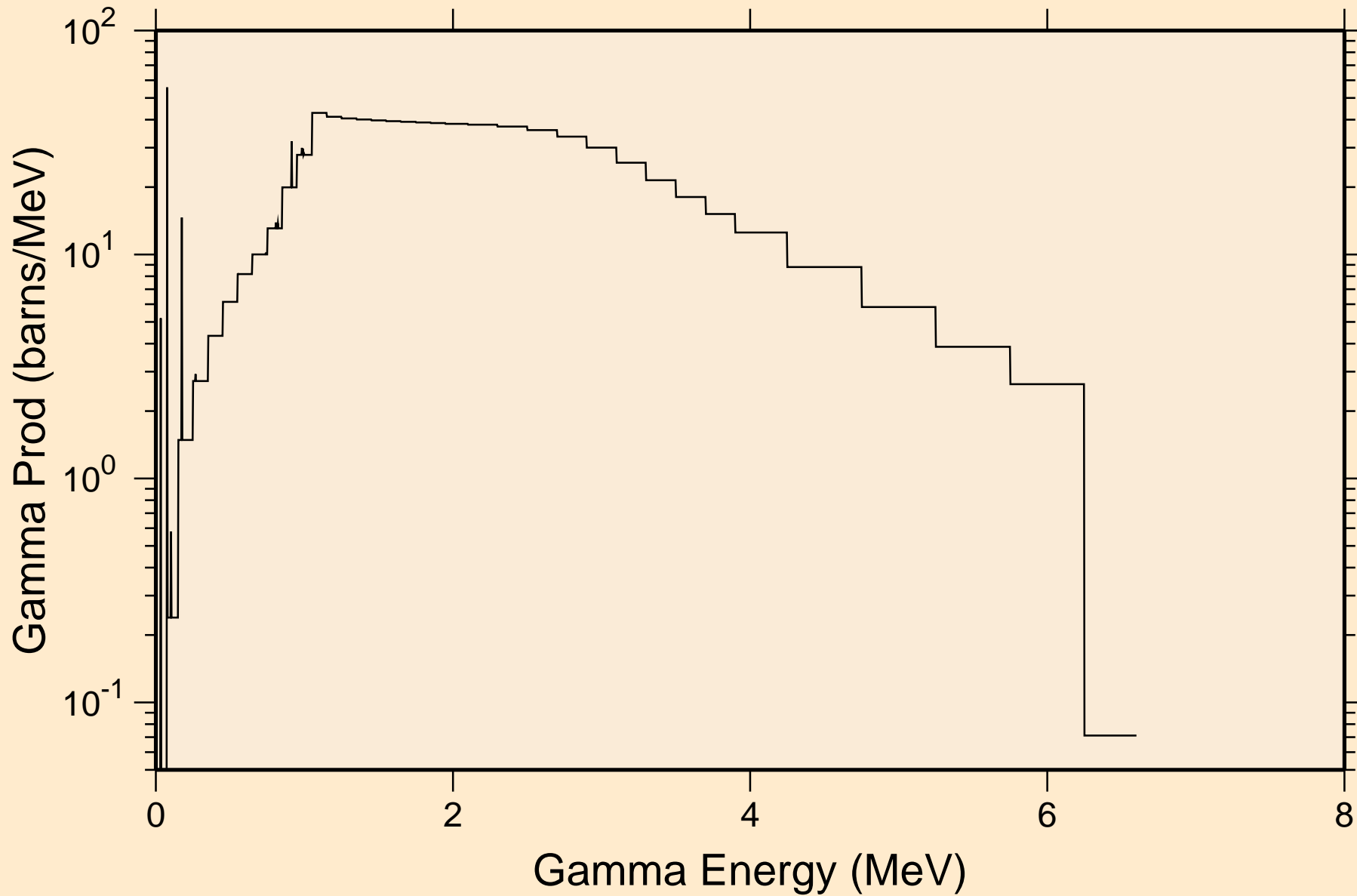
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Photon emission for (n,2p)



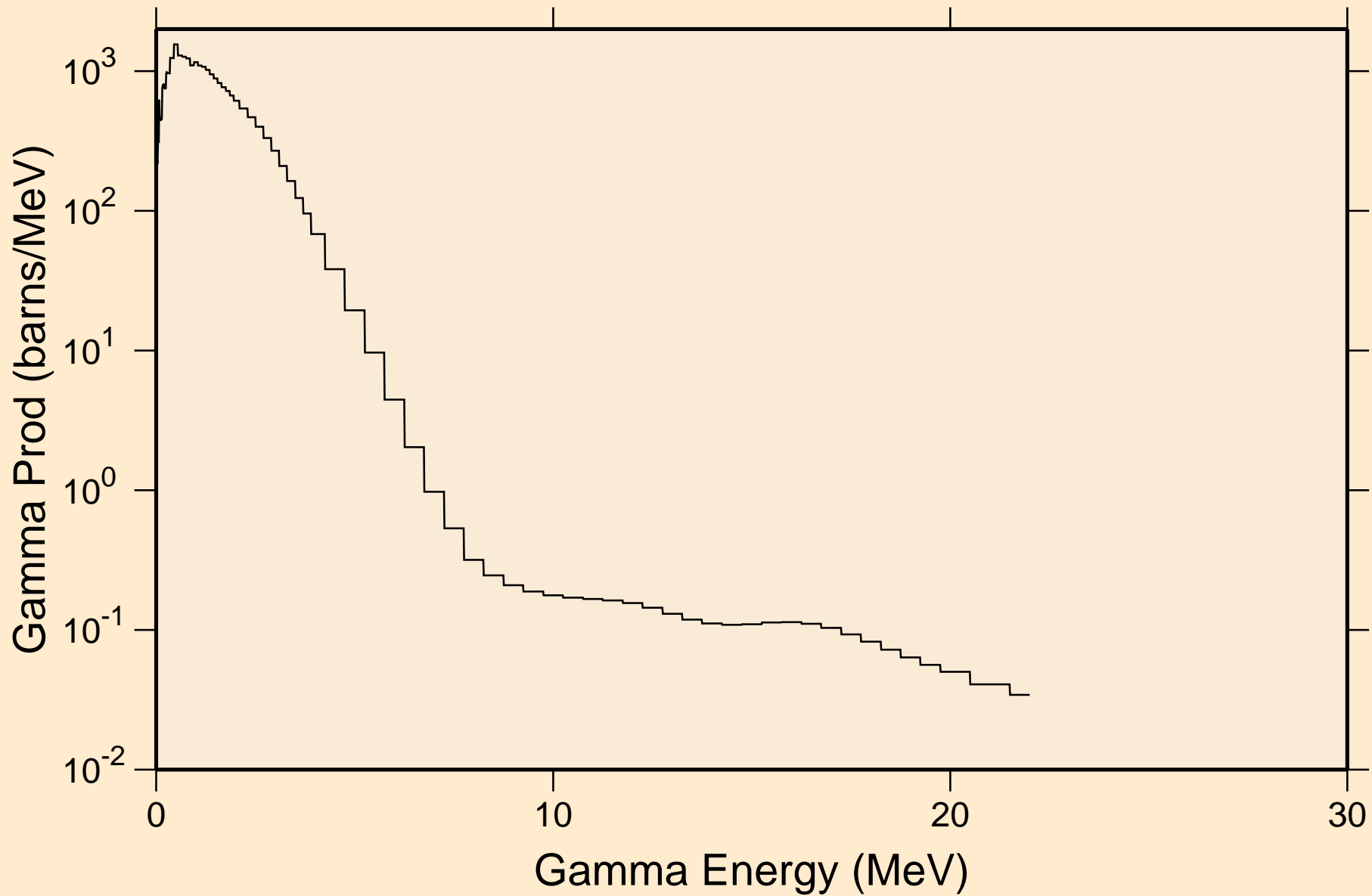
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum



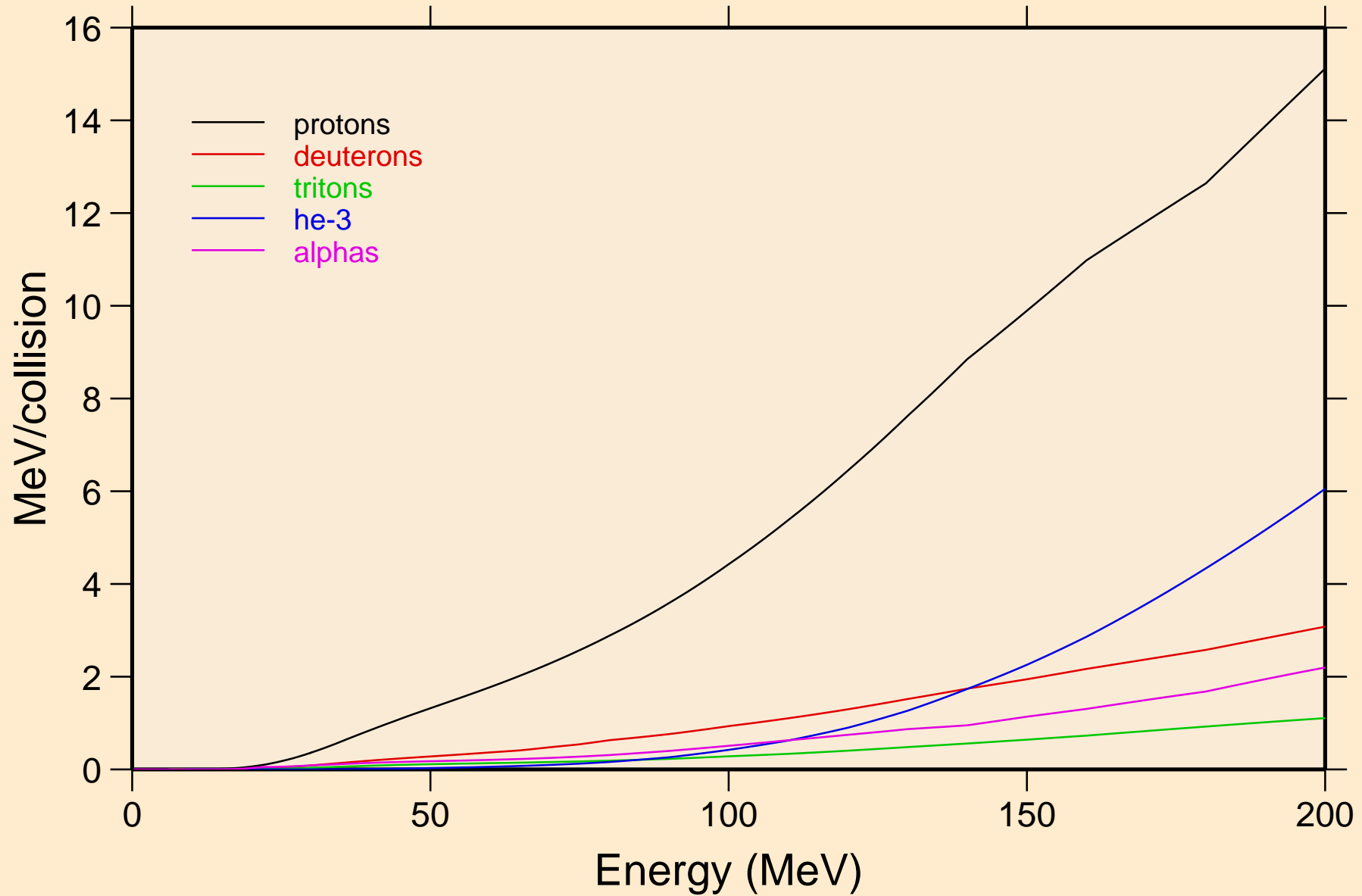
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14 MeV photon spectrum



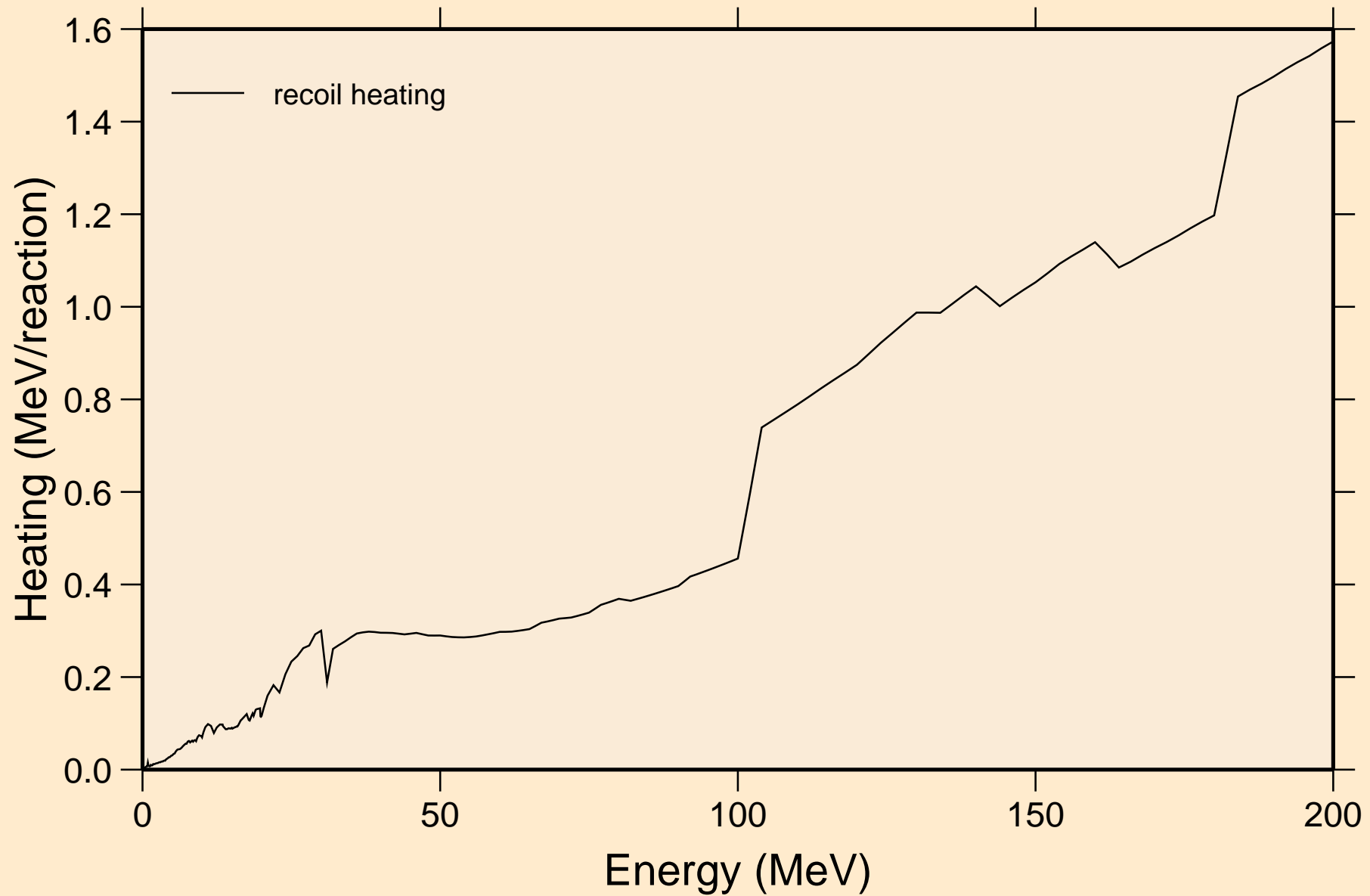


# GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

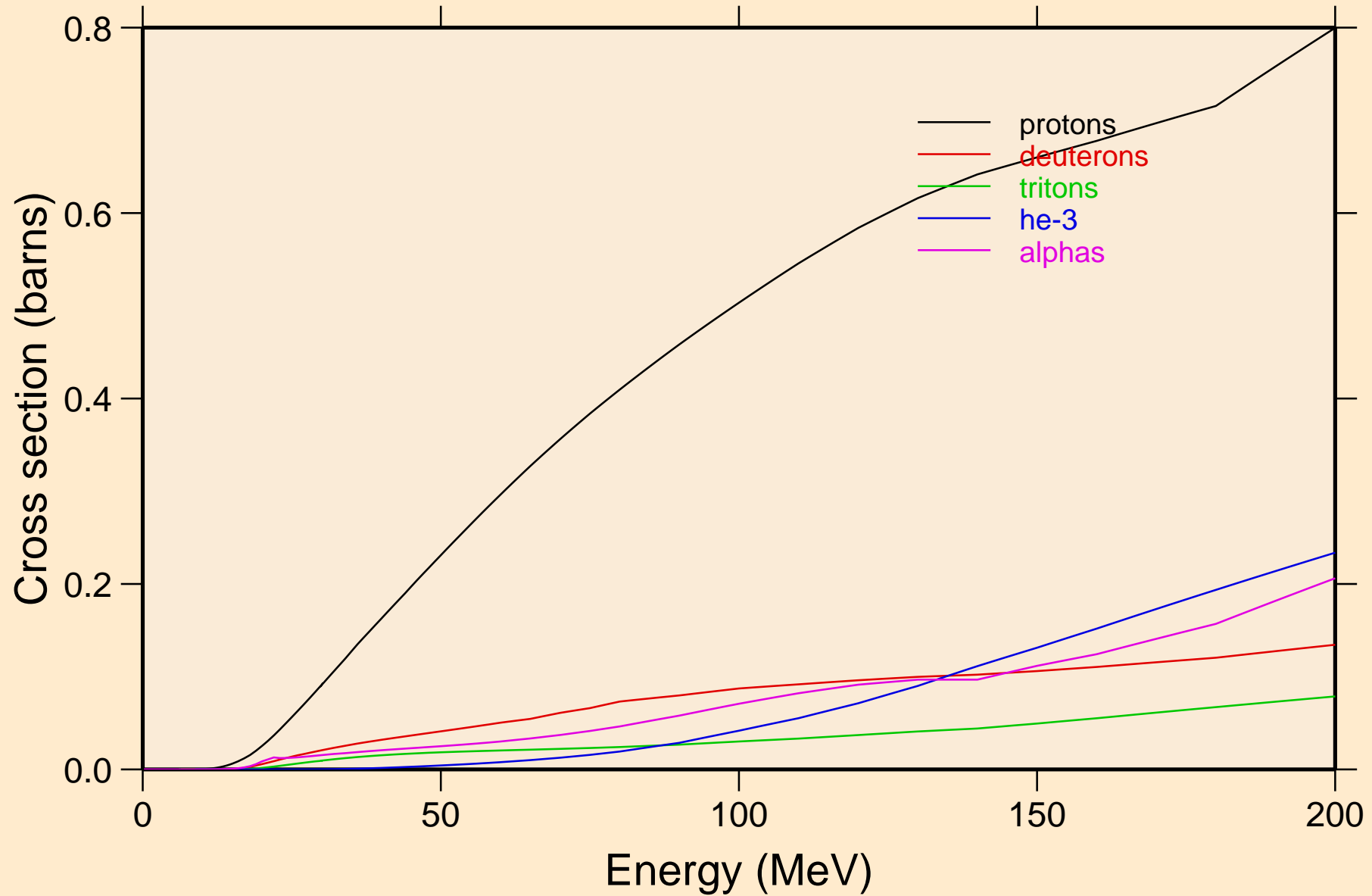
## Particle heating contributions



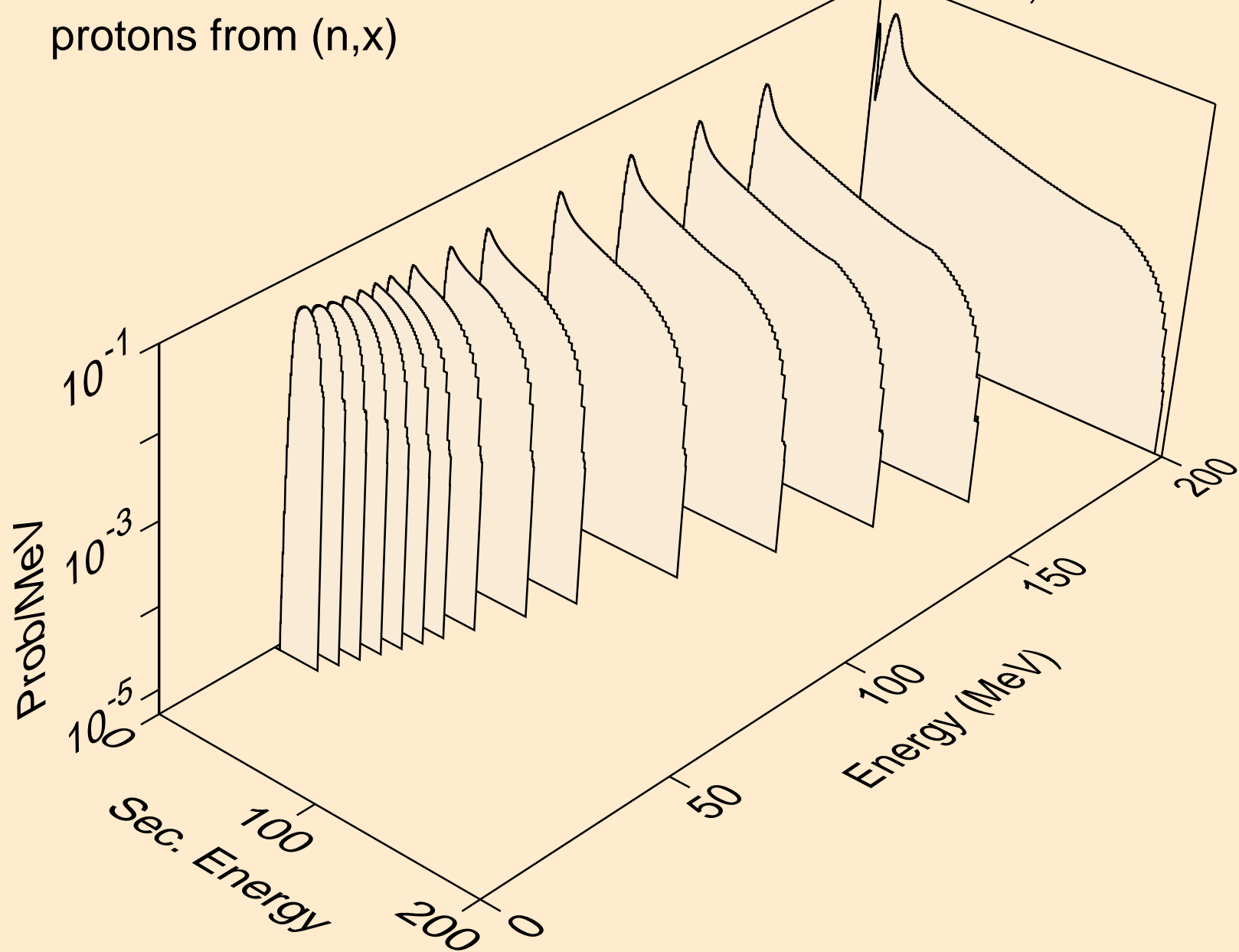
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Recoil Heating



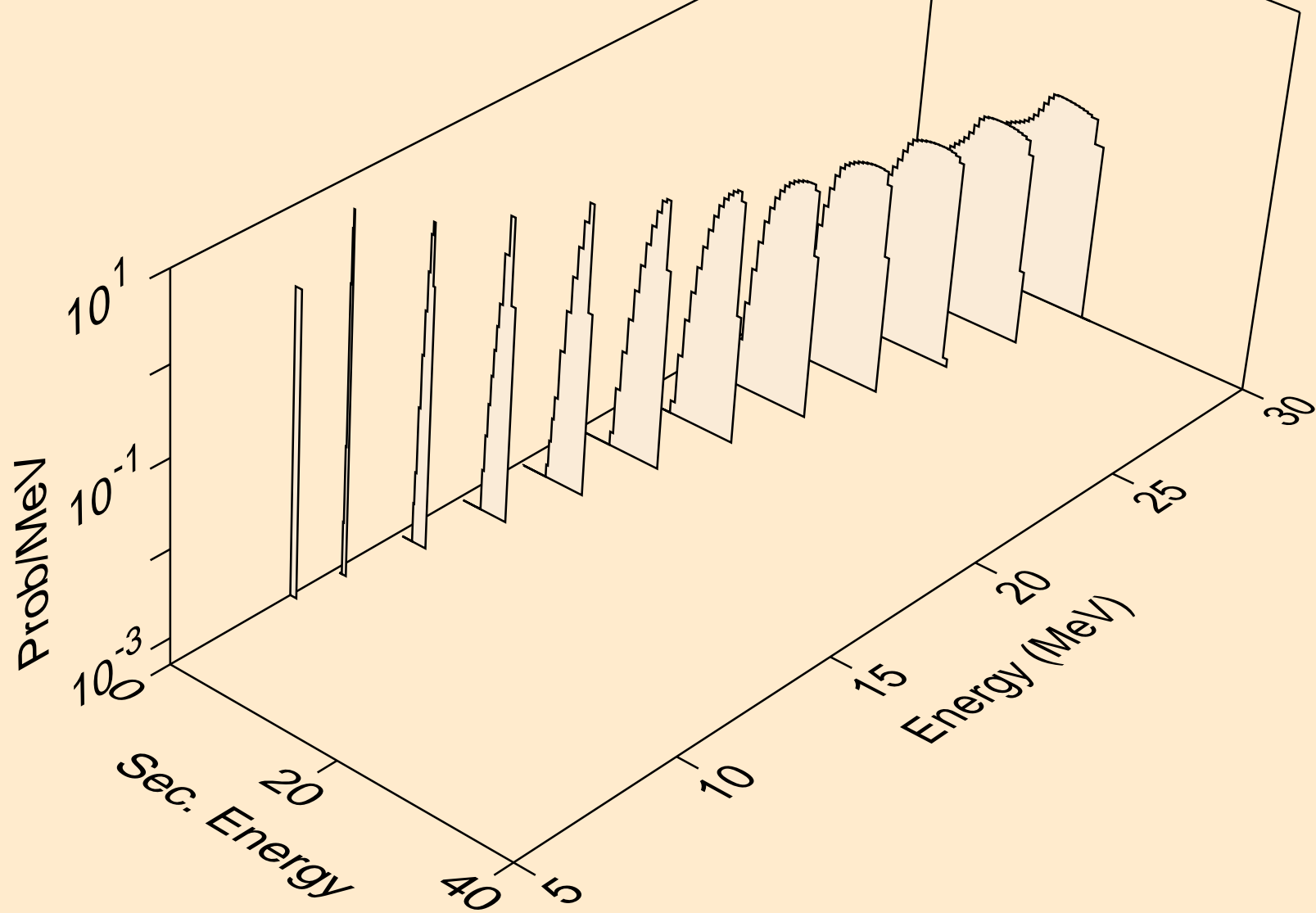
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Particle production cross sections



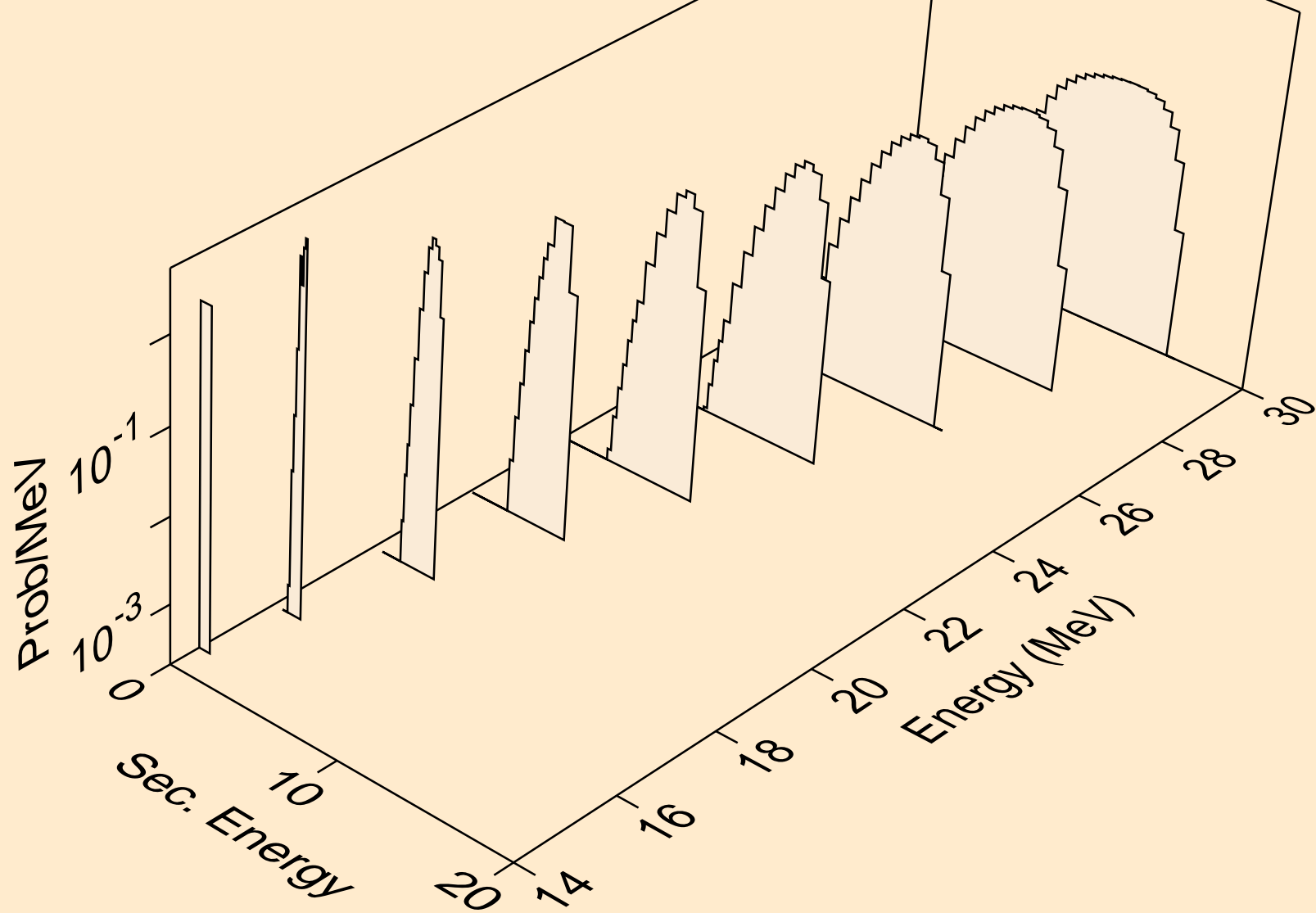
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



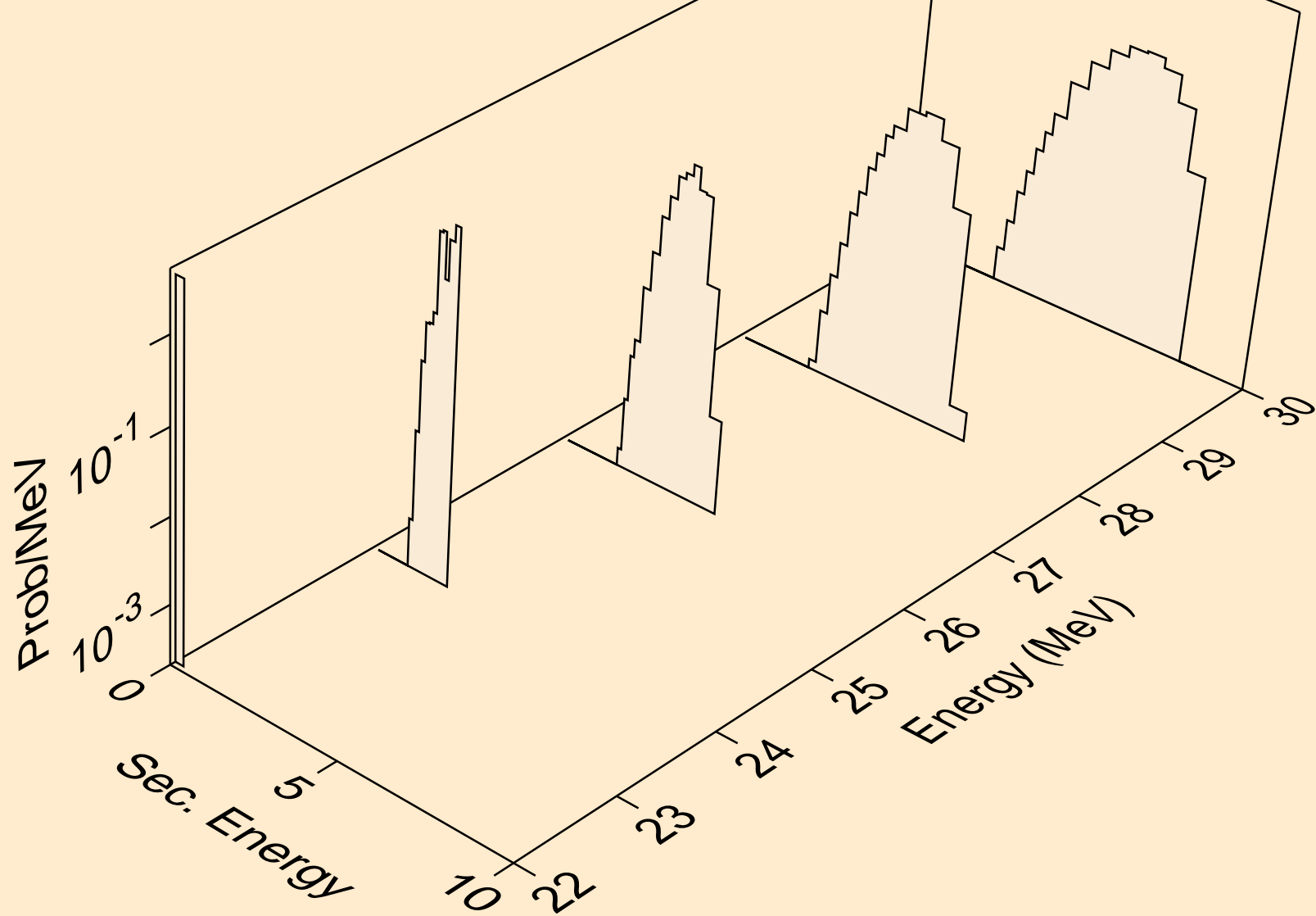
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



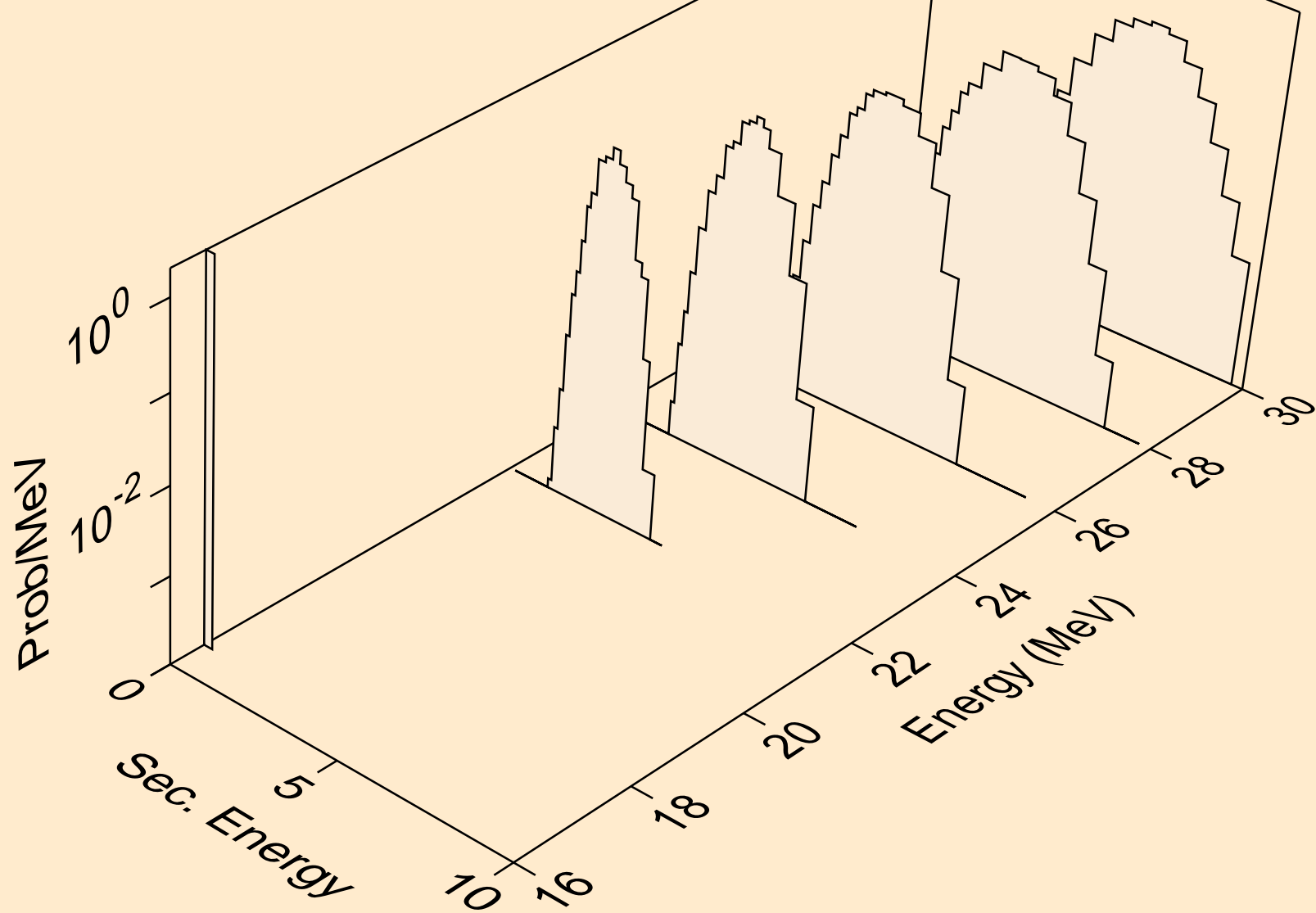
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protons from (n,2np)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,3np)

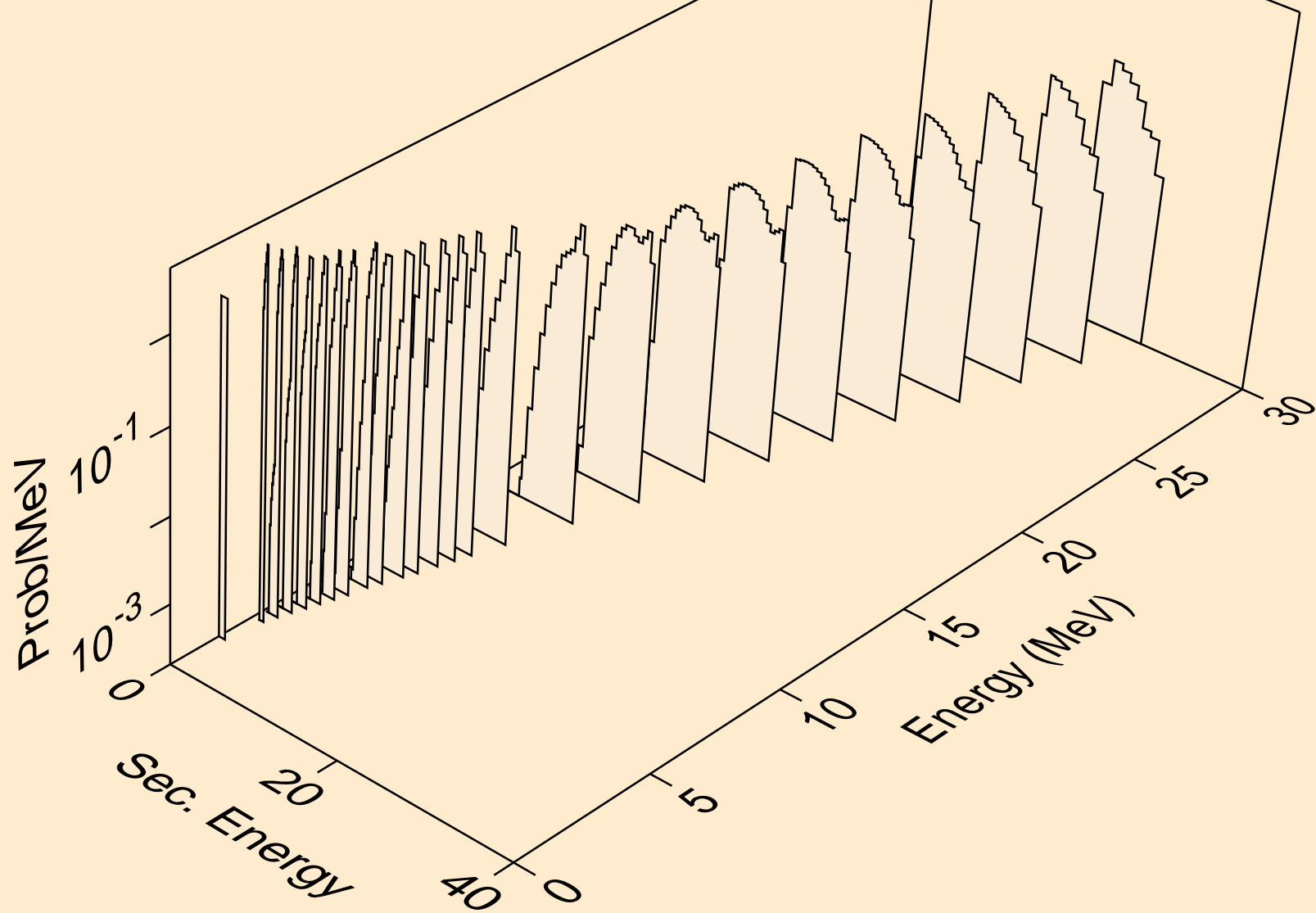


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protons from (n,2np)

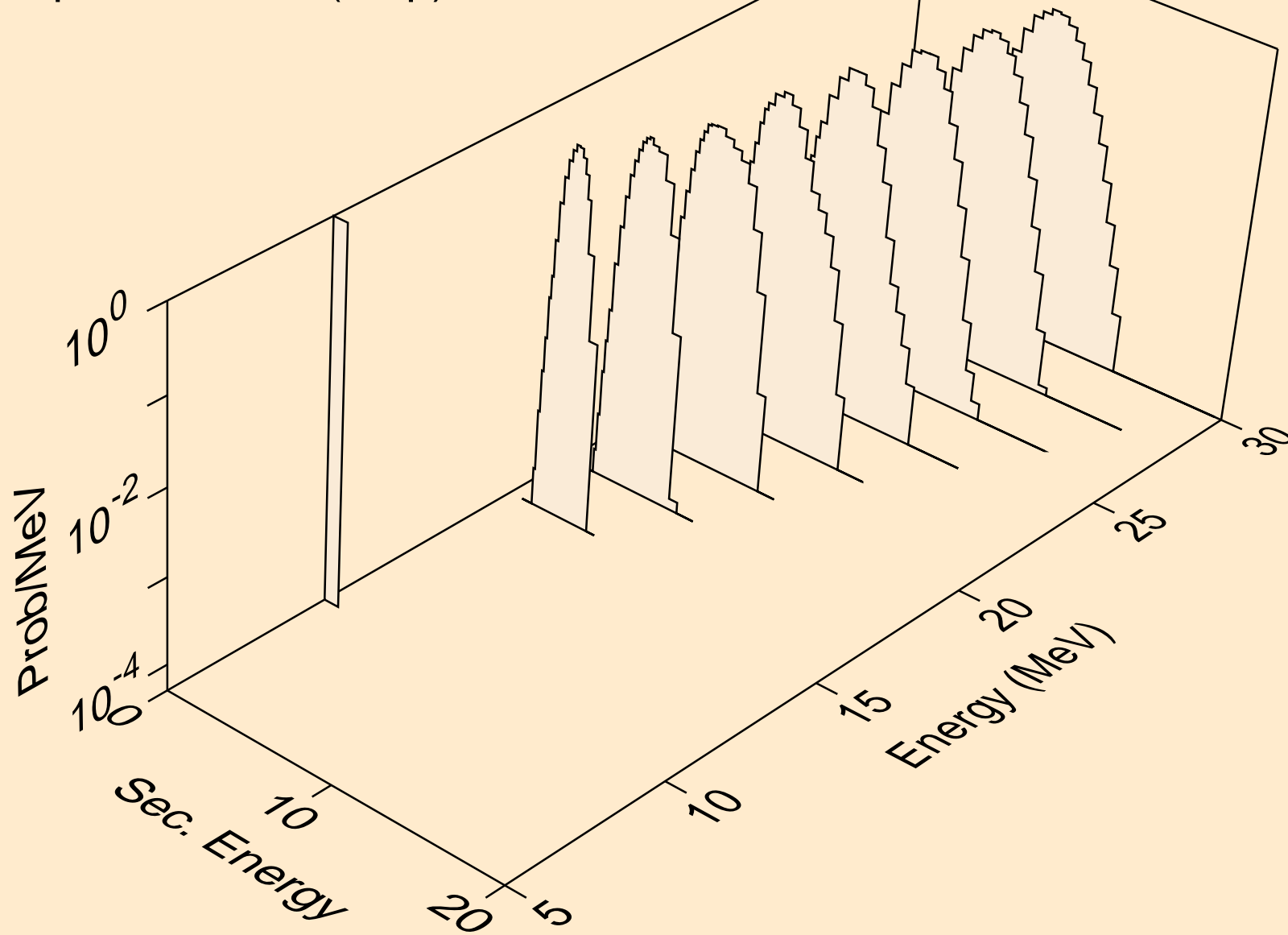




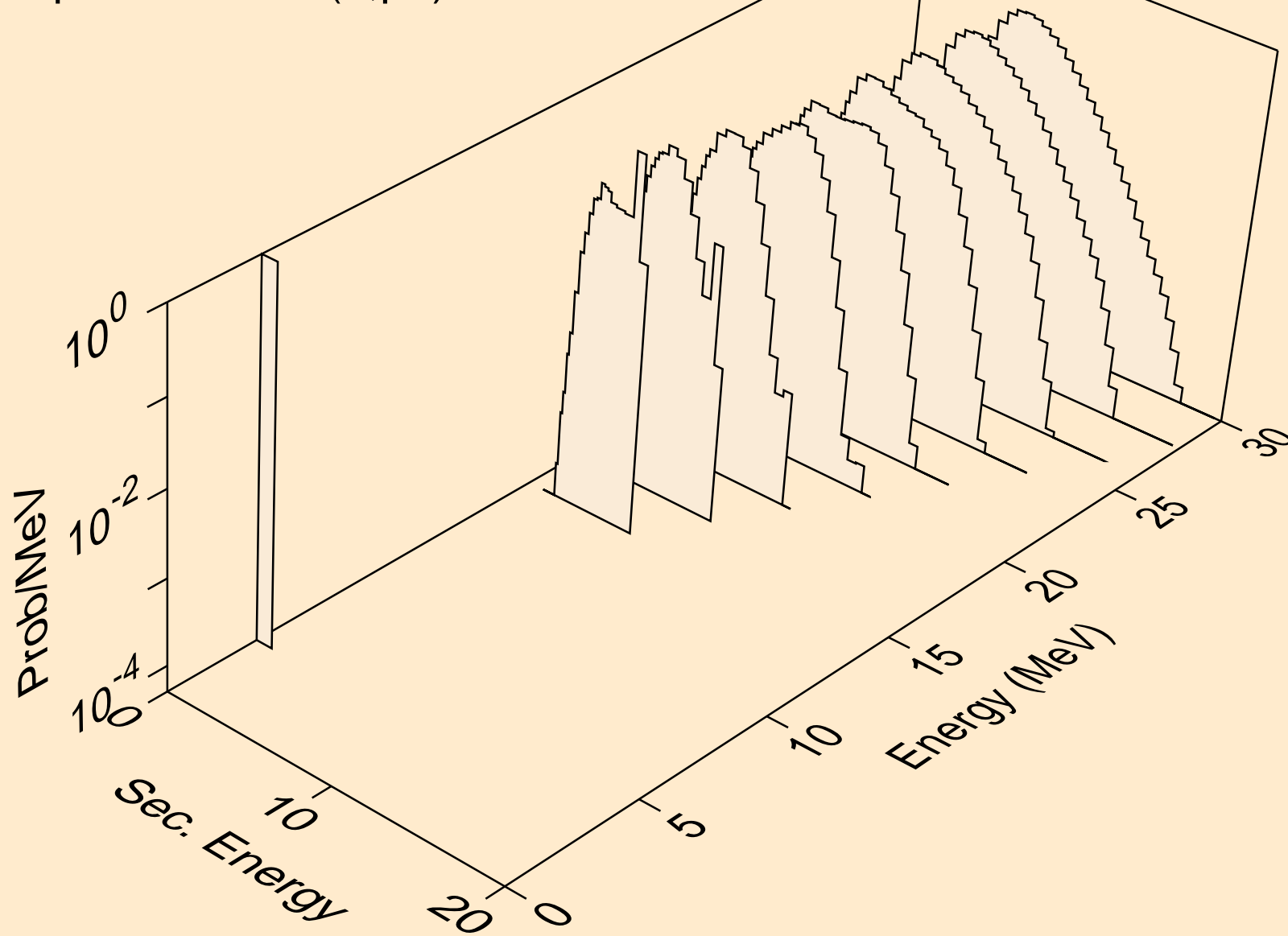
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protons from (n,p)



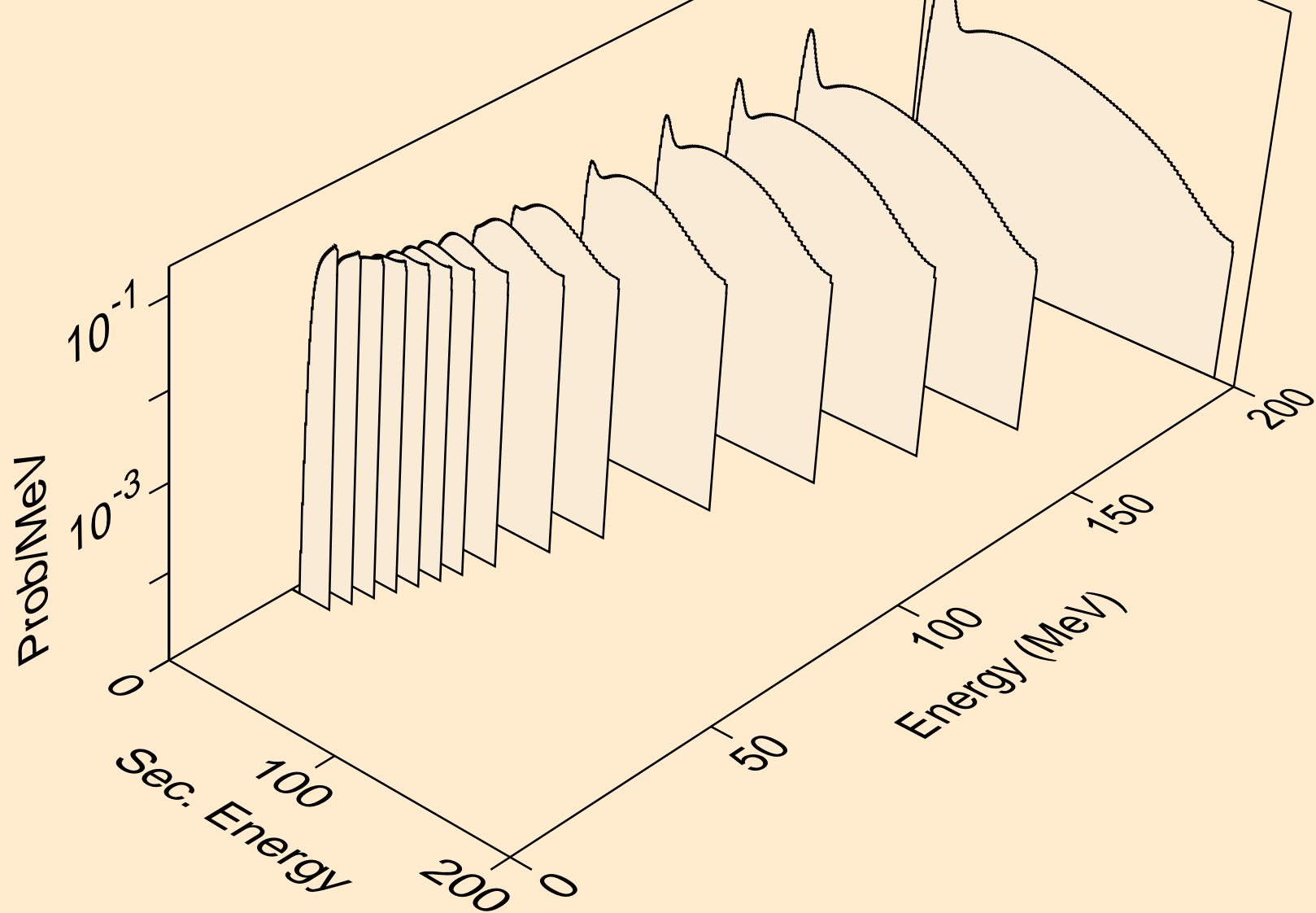
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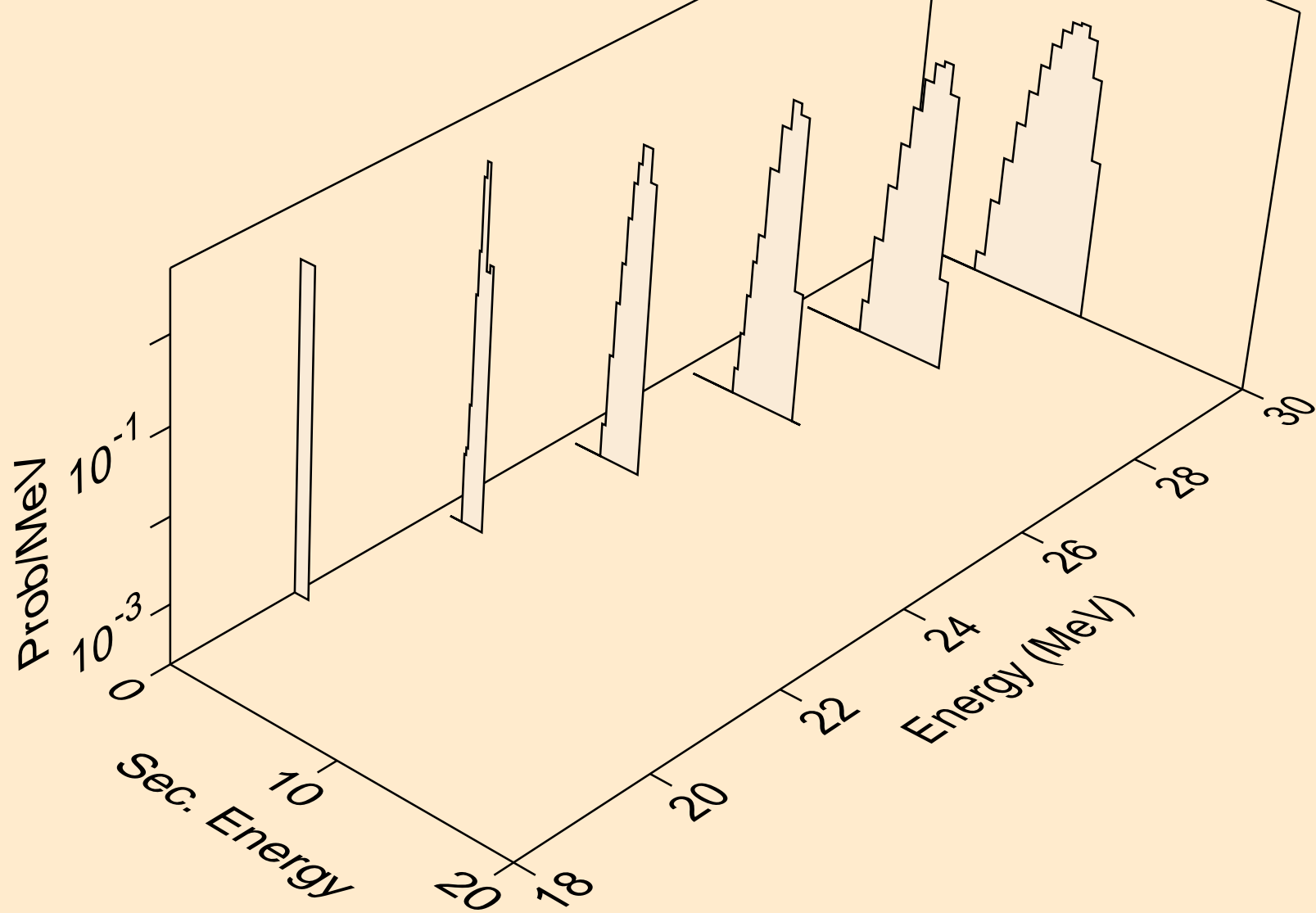
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protons from (n,p)



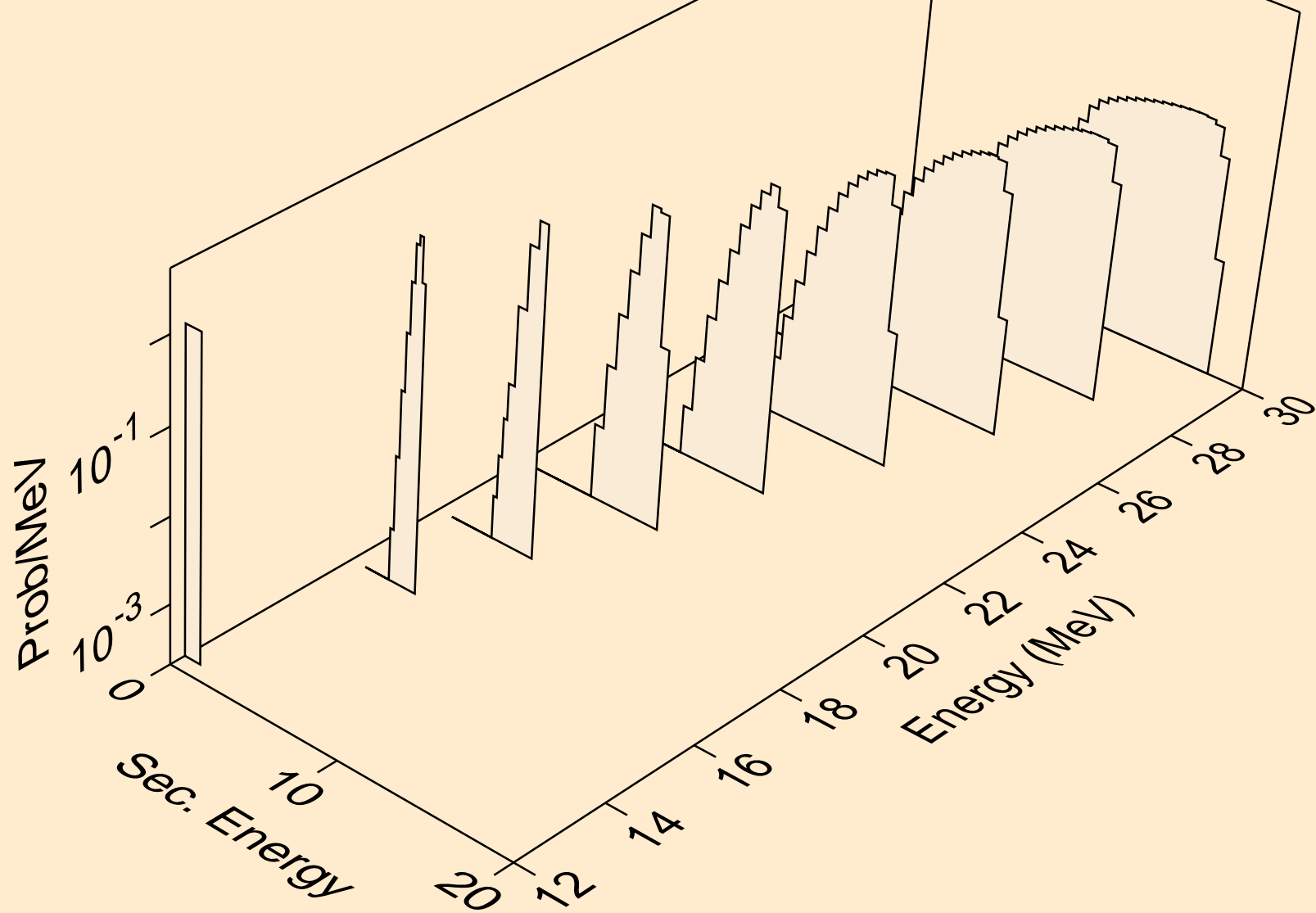
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deuterons from (n,x)



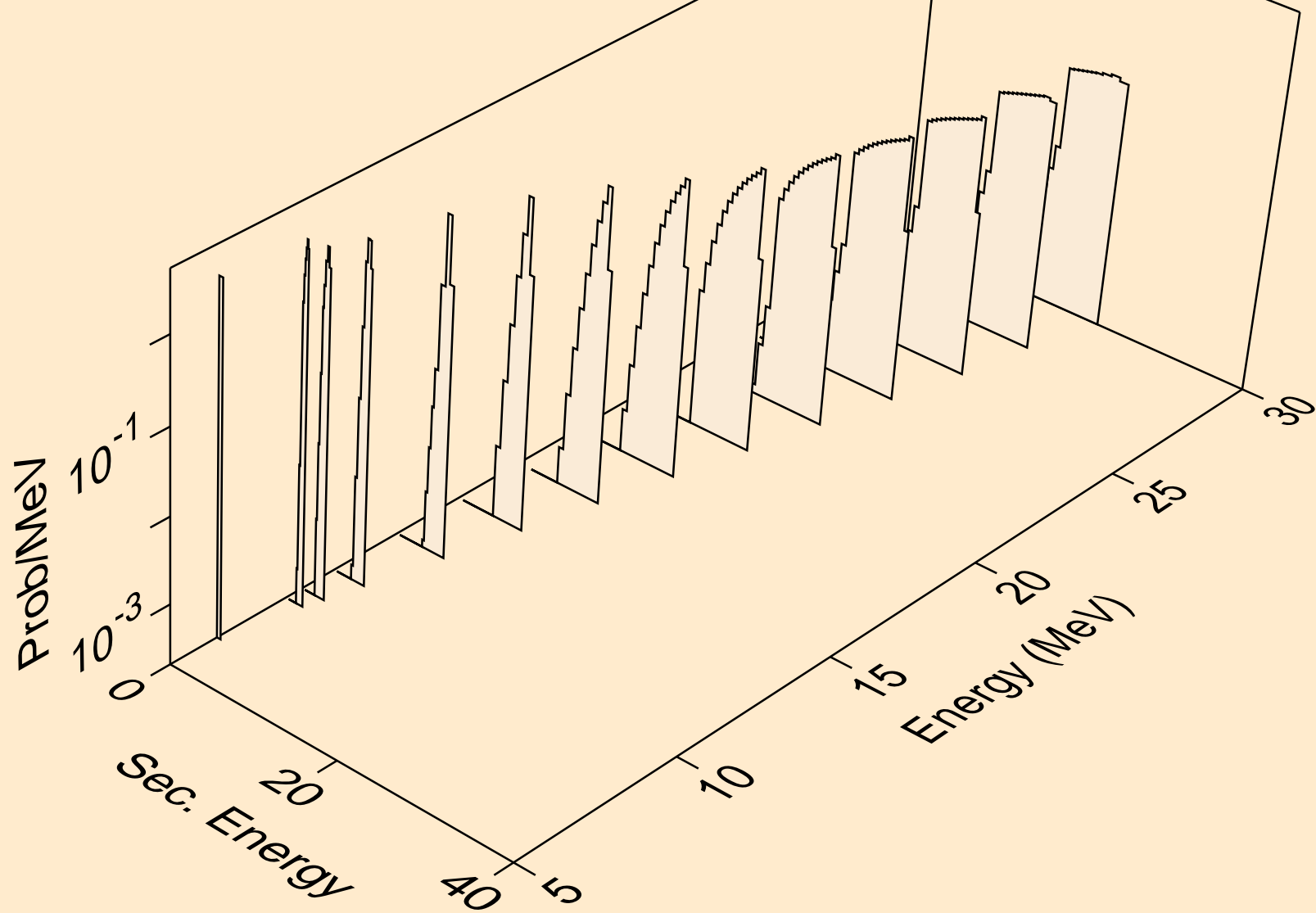
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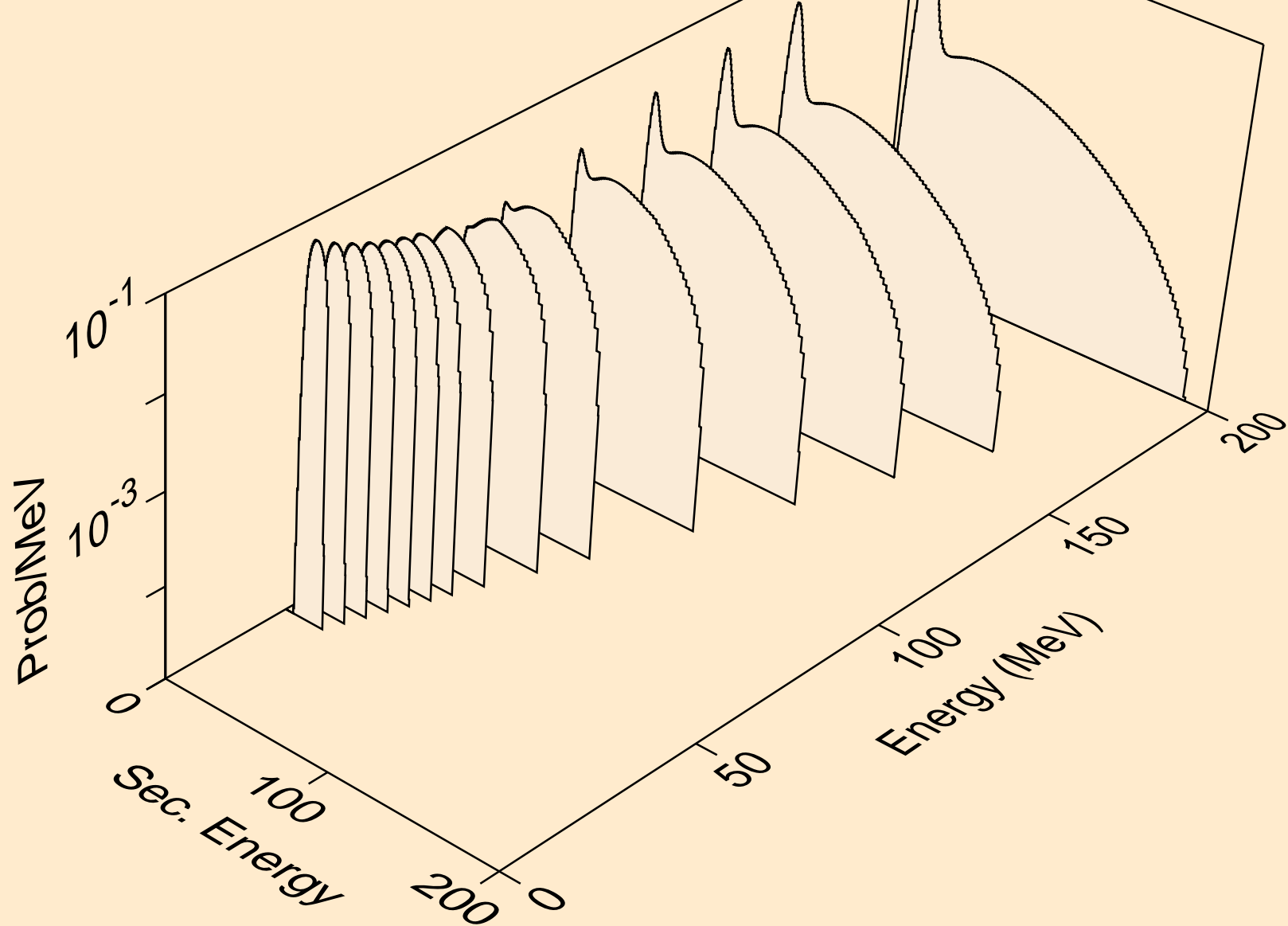
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,d)

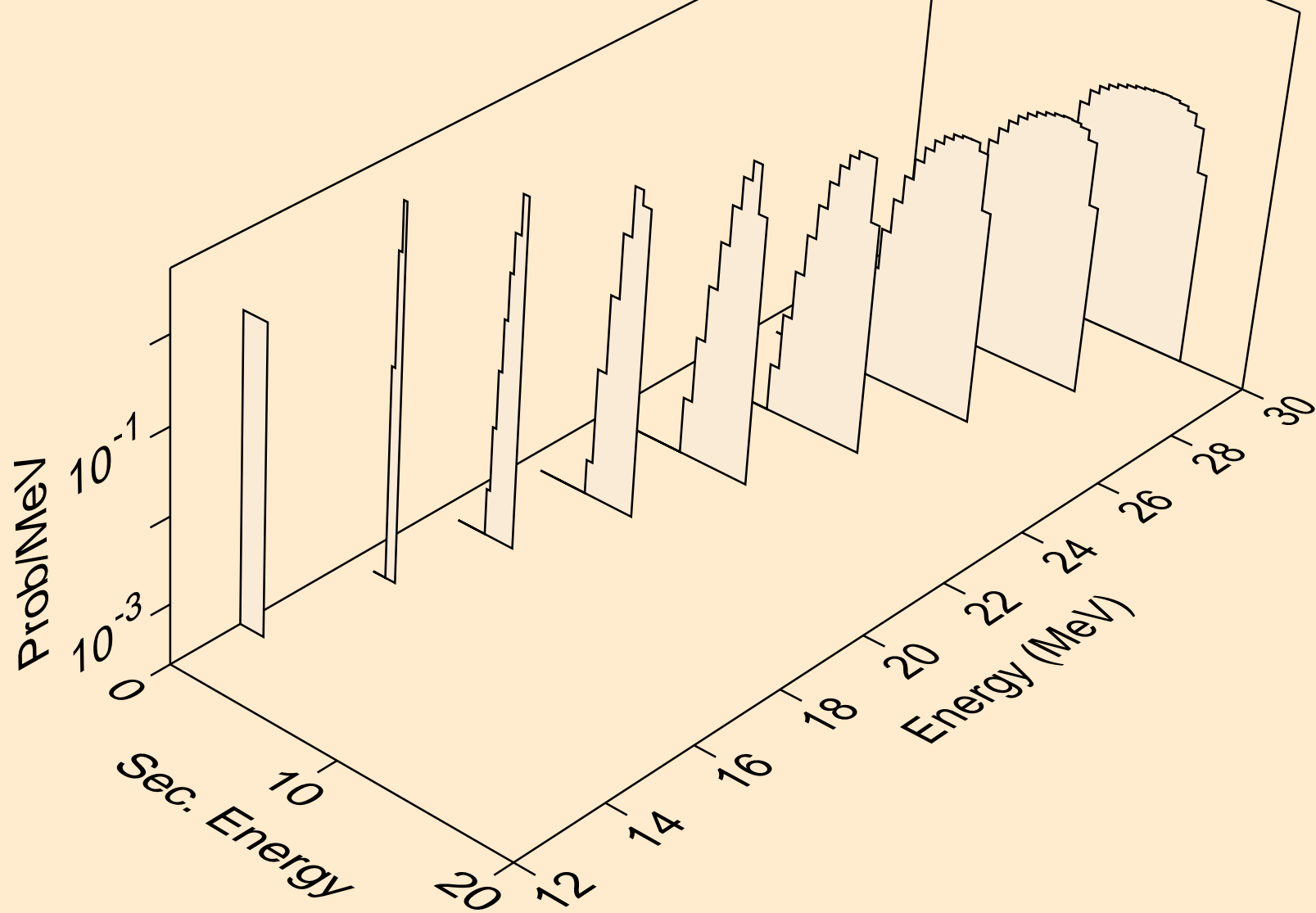


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tritons from (n,x)

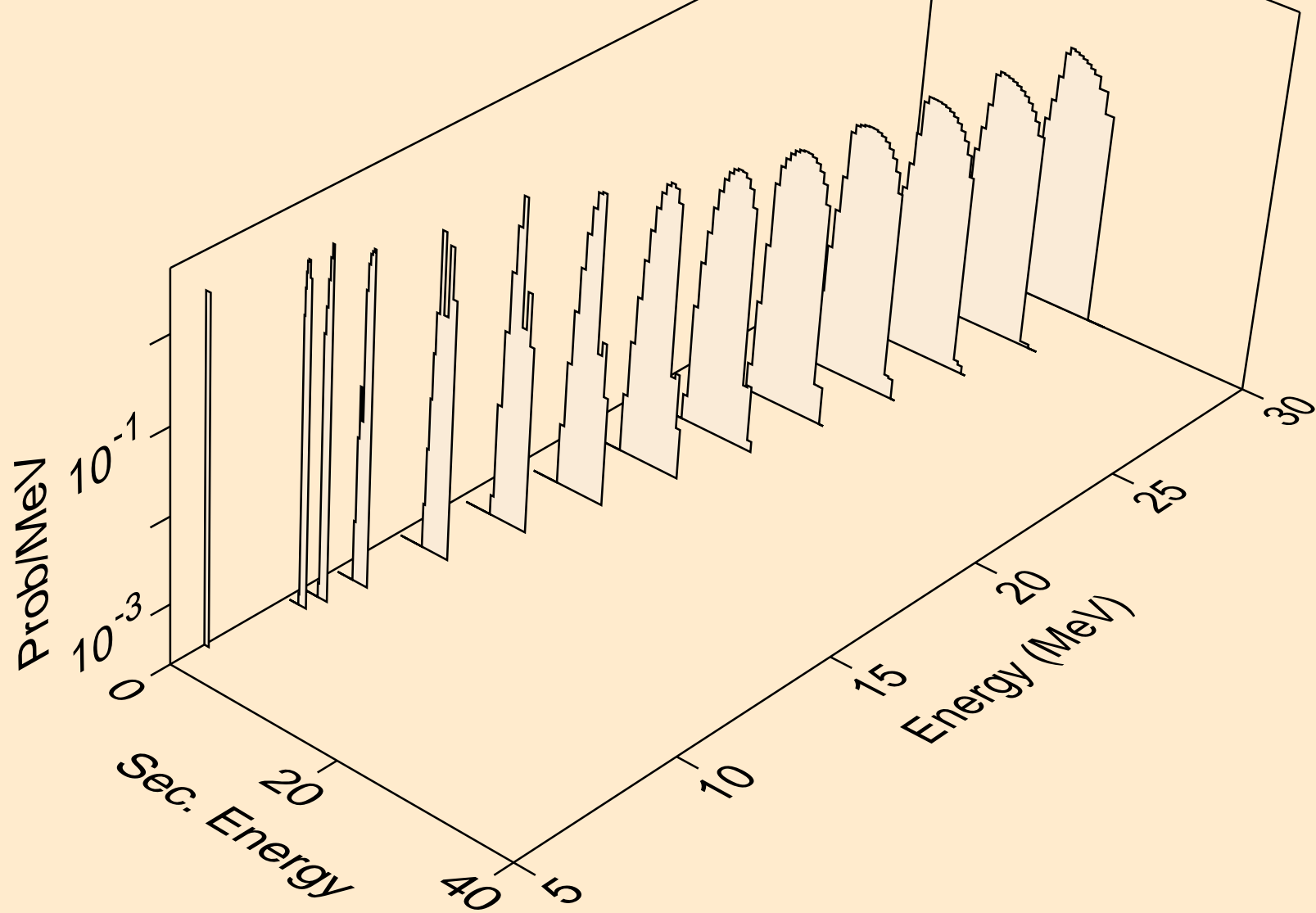




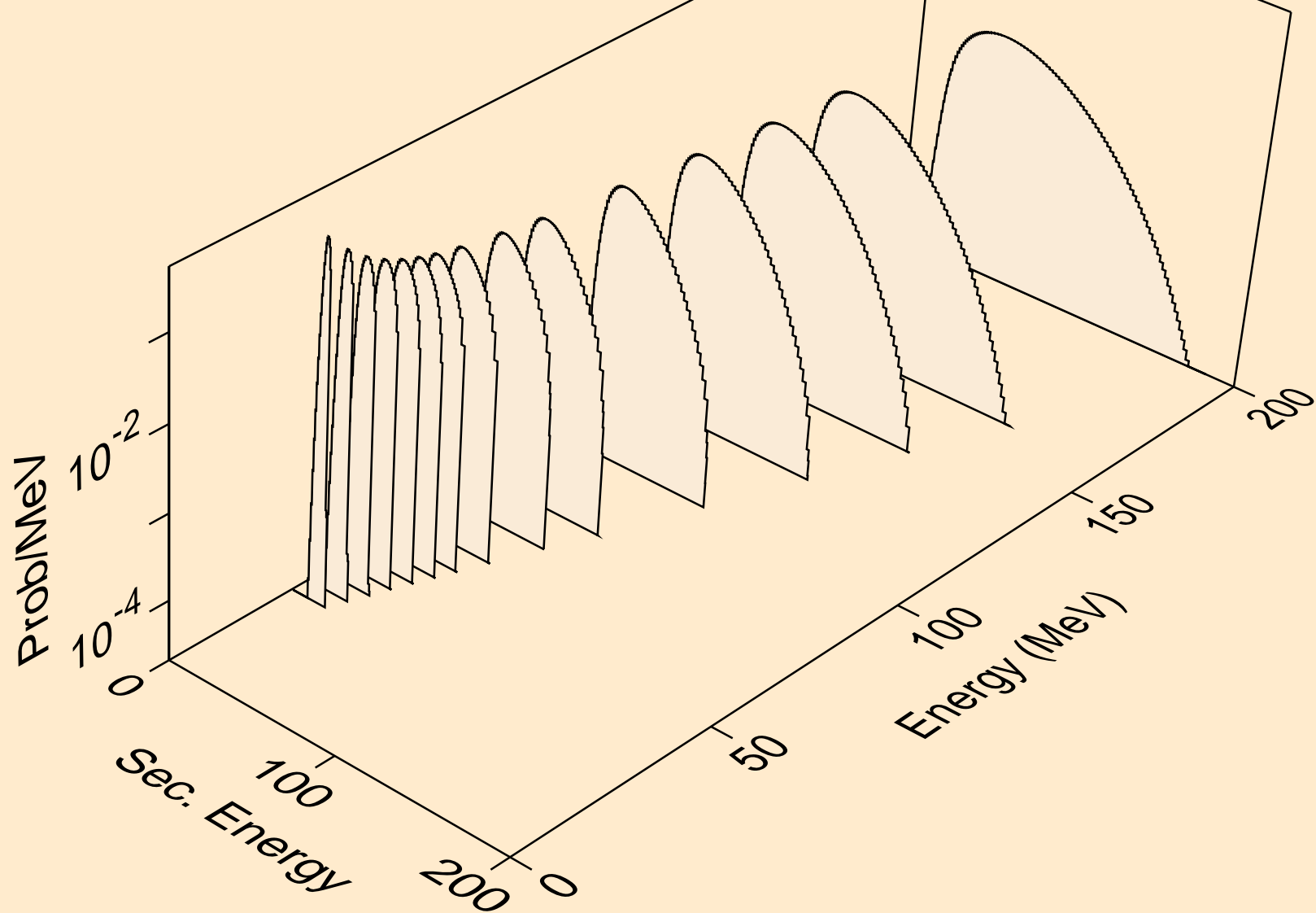
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



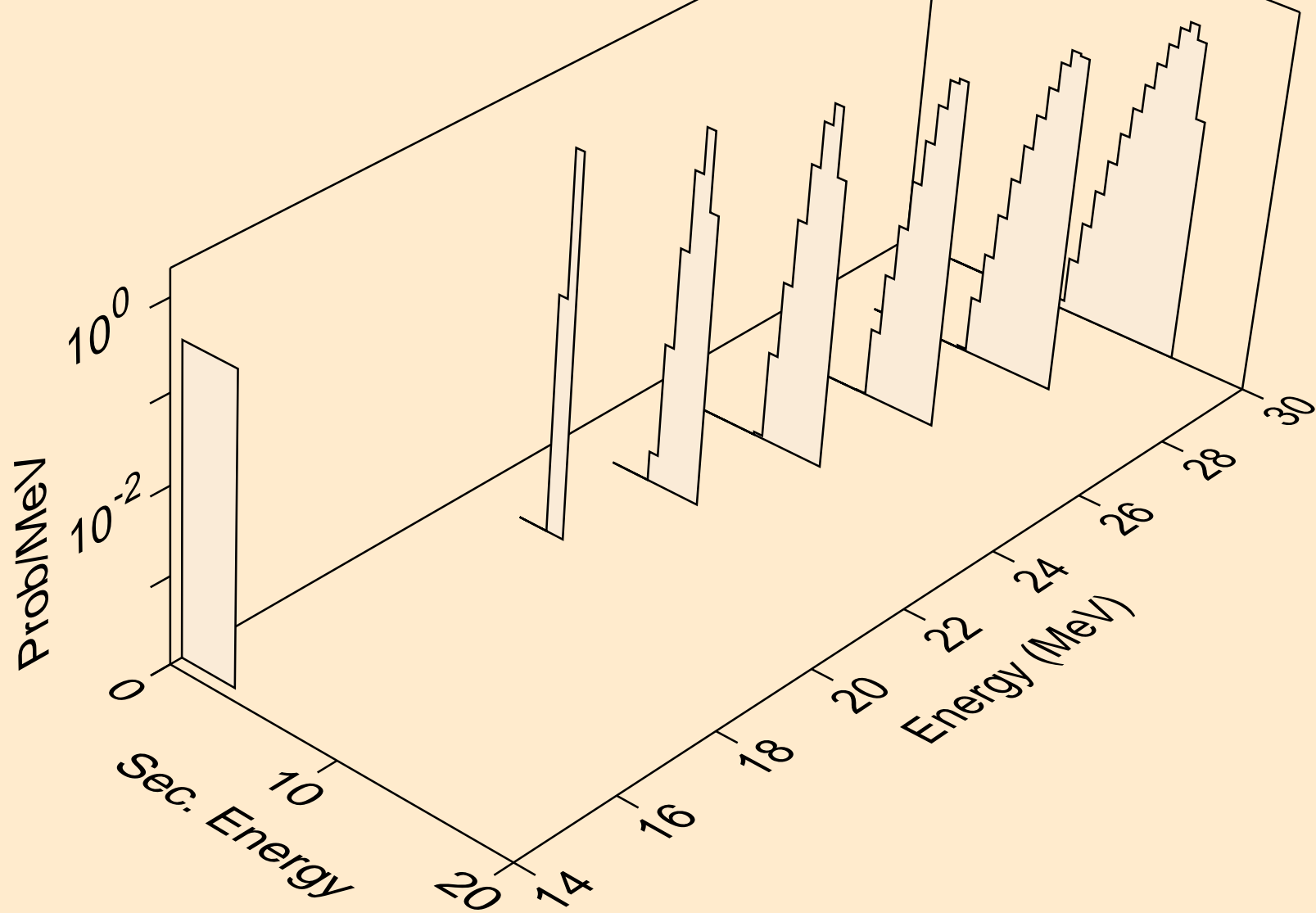
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tritons from (n,t)



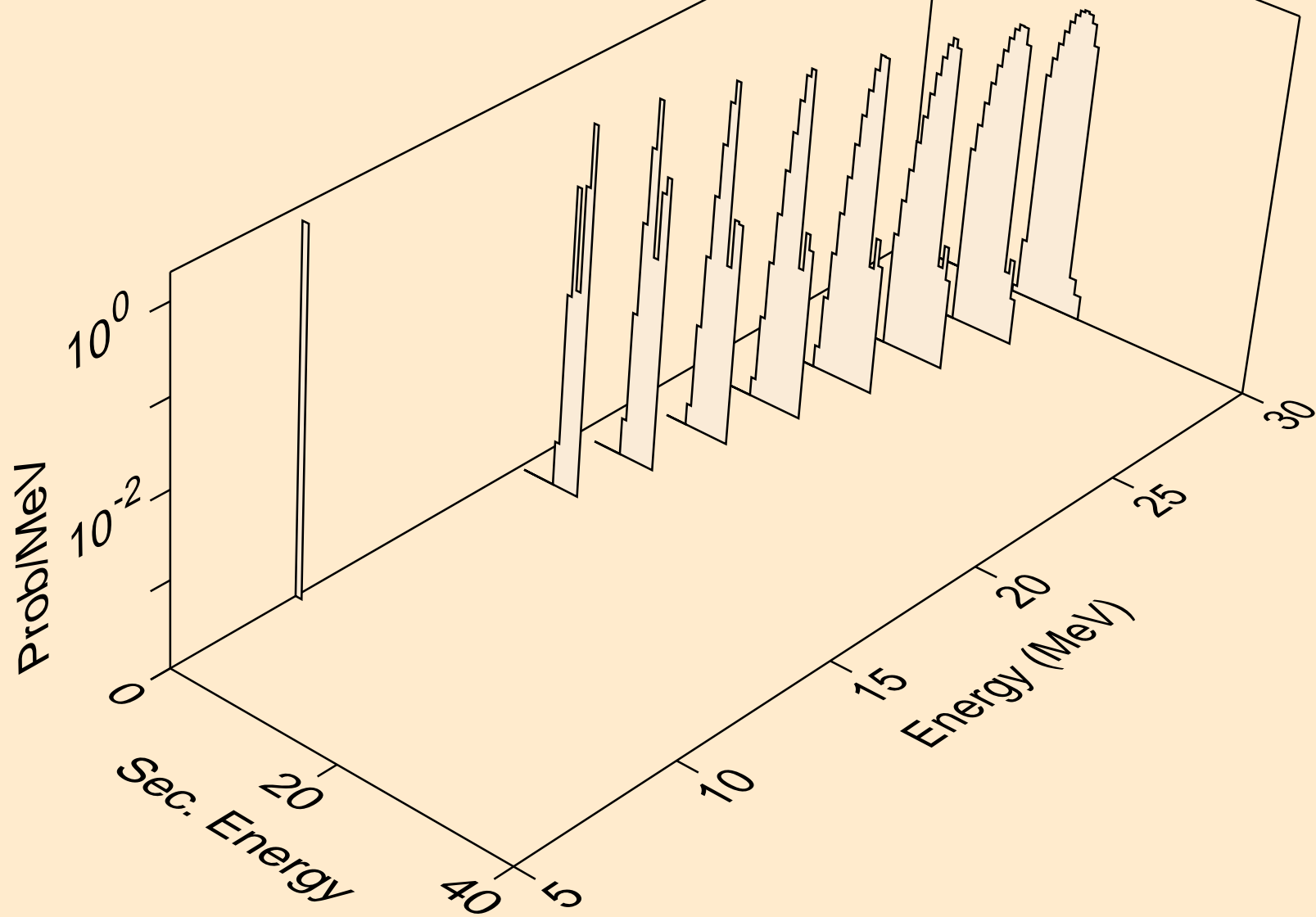
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he3s from (n,x)



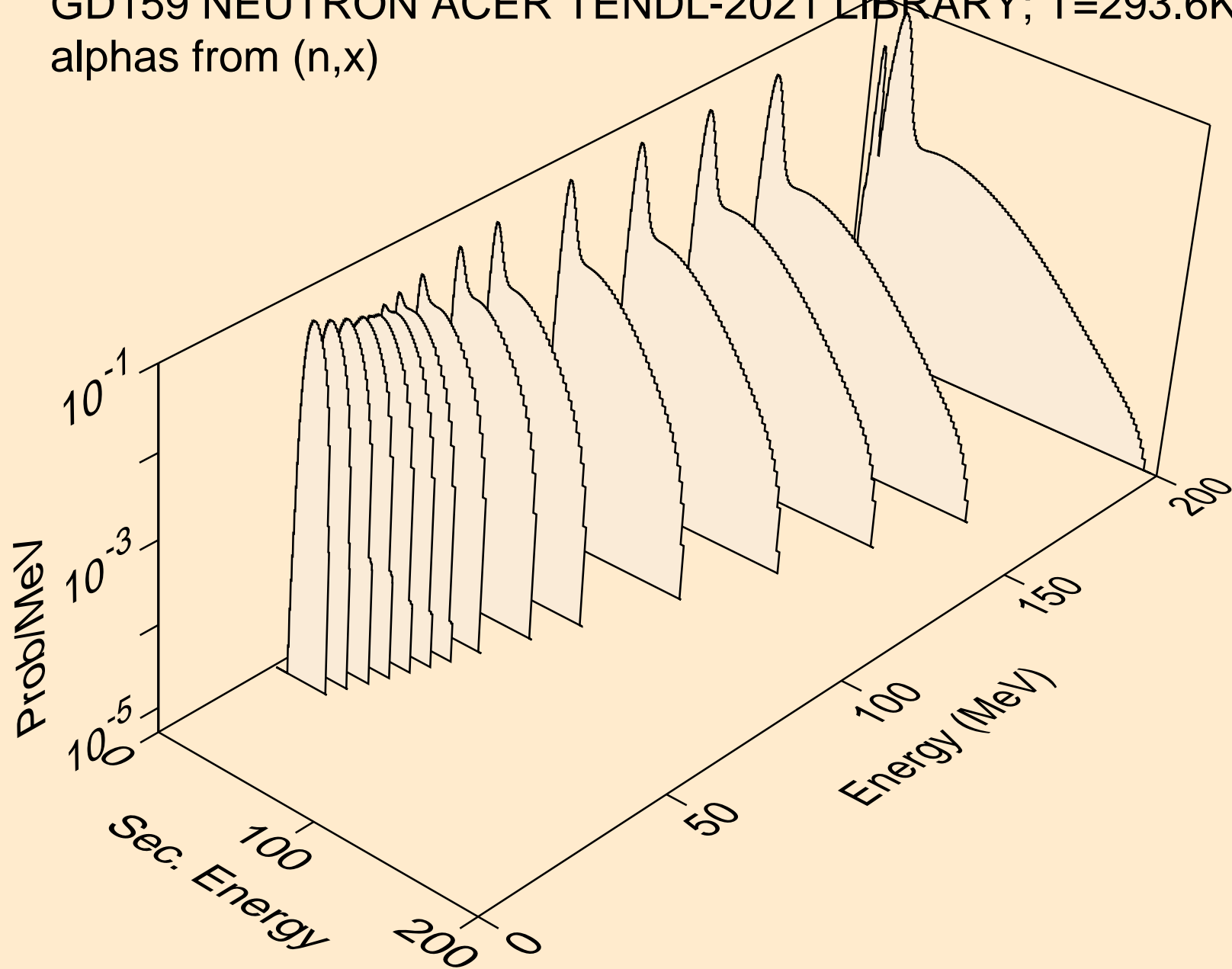
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he3s from (n,n\*)he3



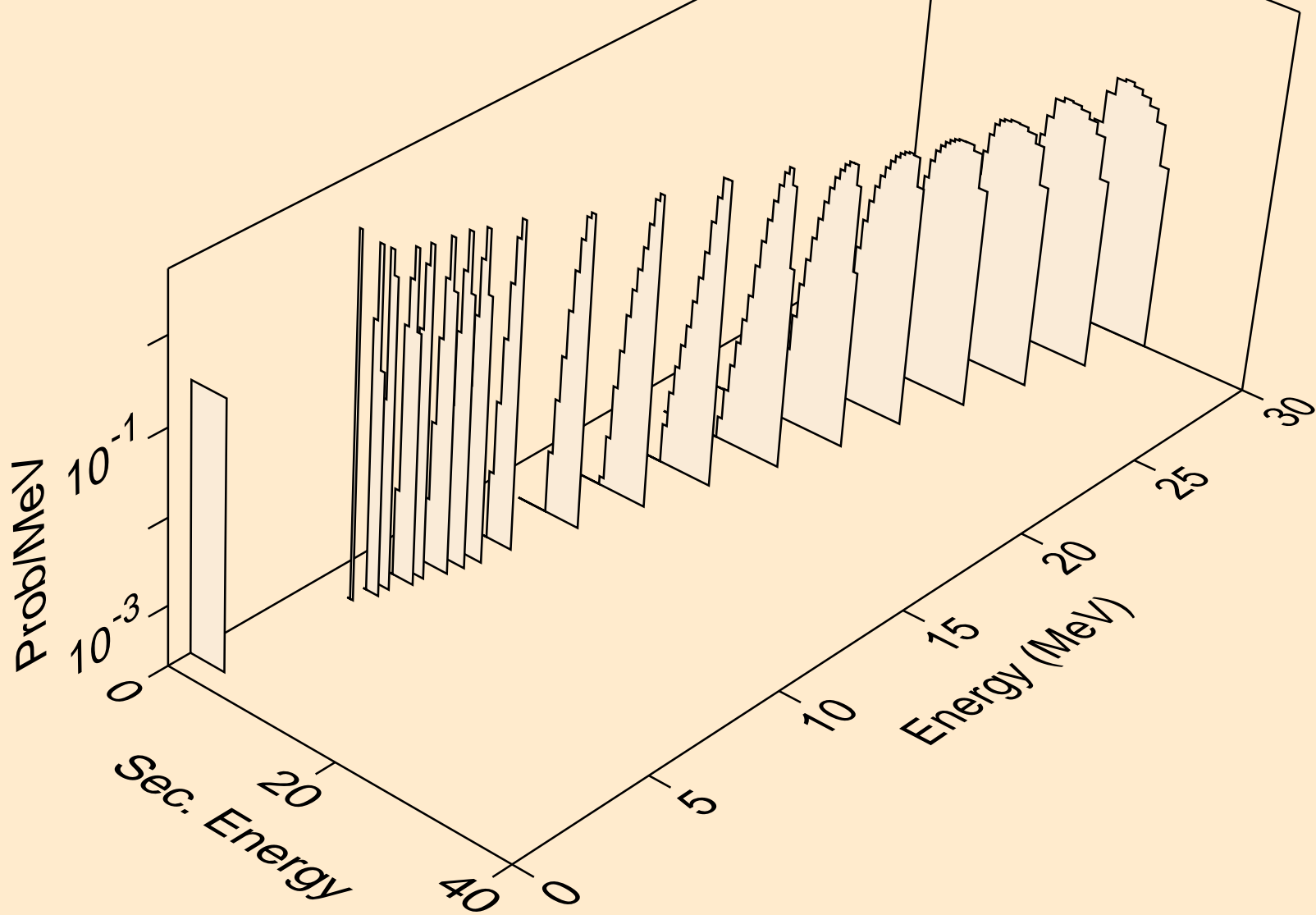
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he3s from (n,he3)



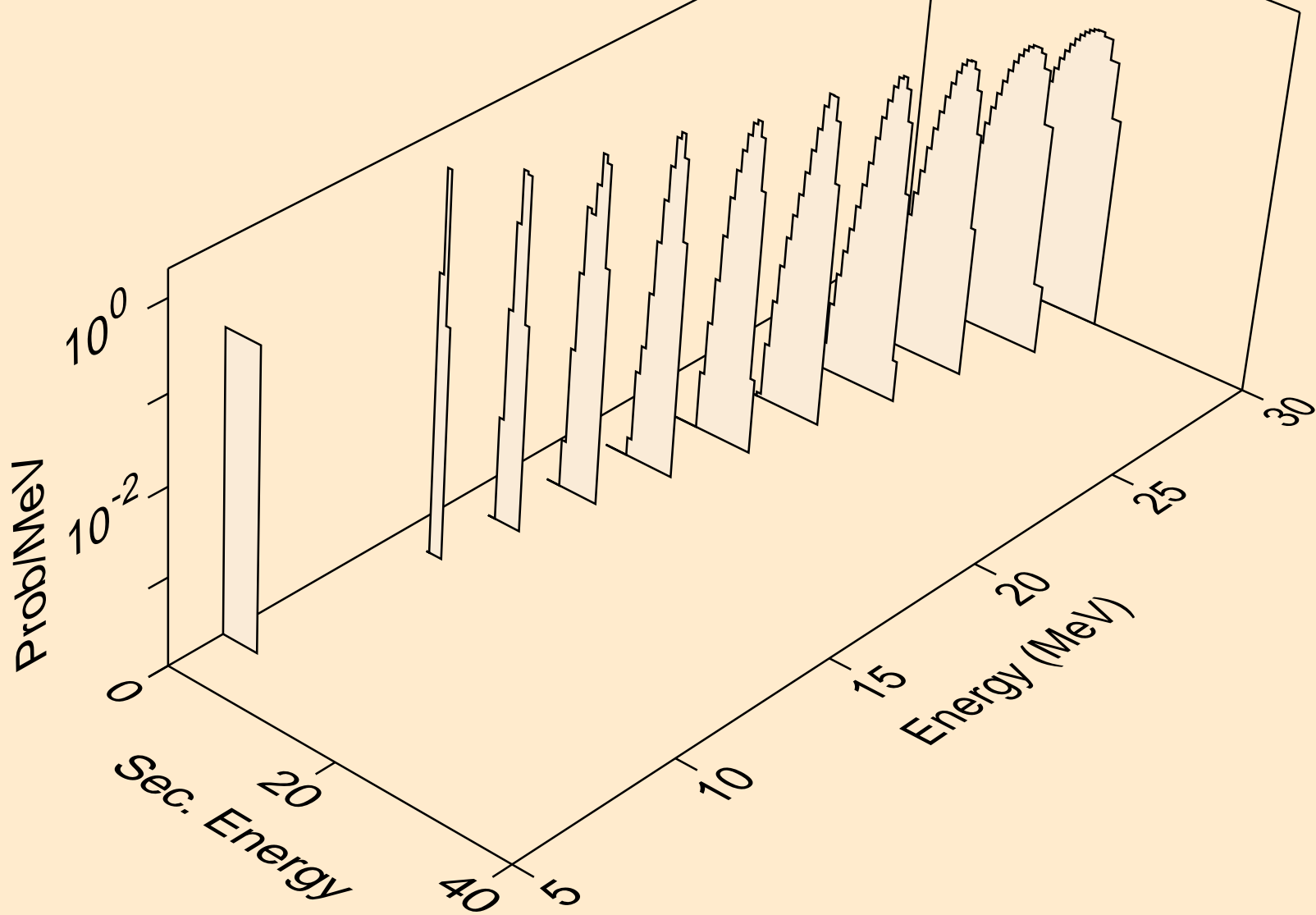
GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a

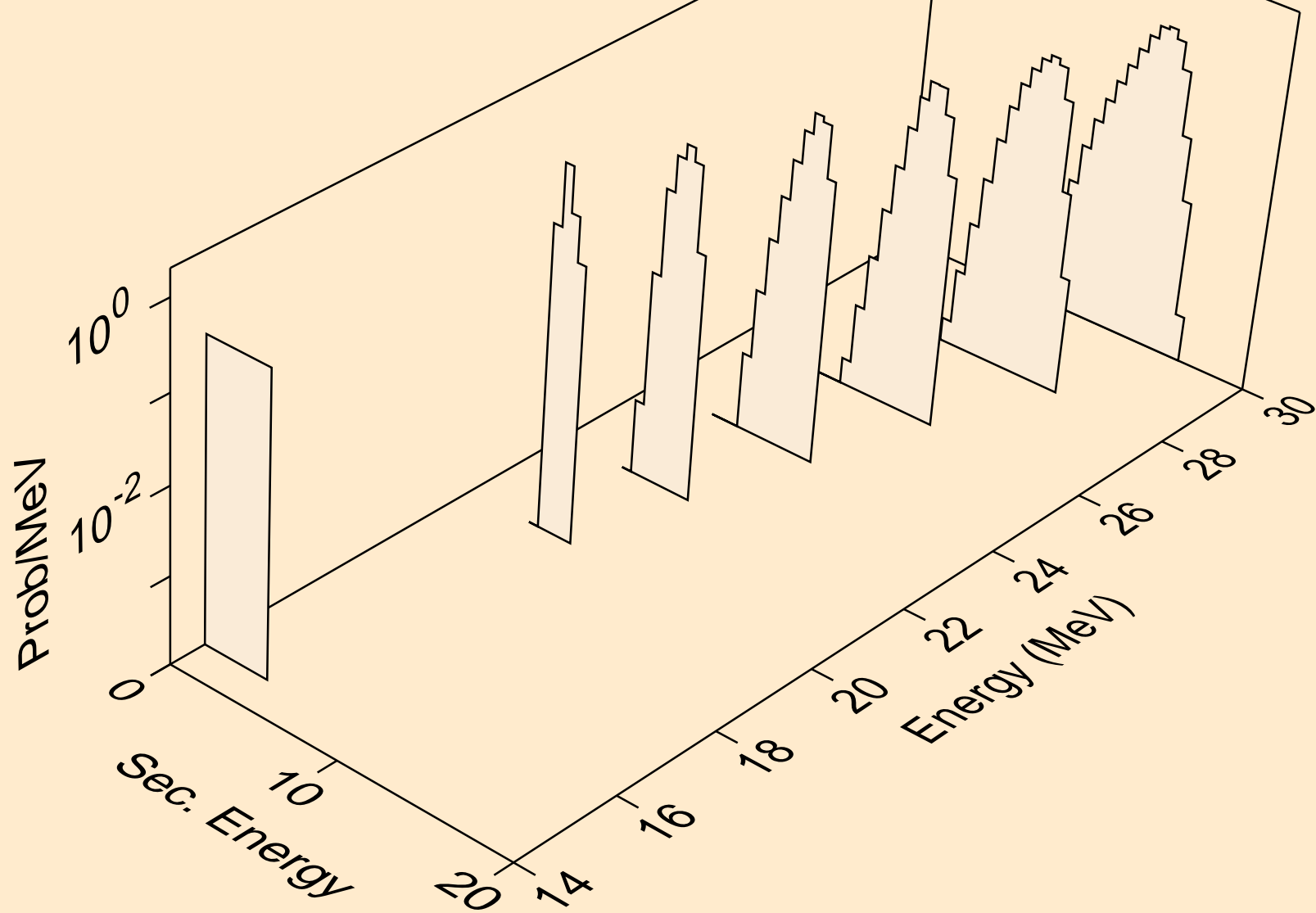


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alphas from (n,2n)a

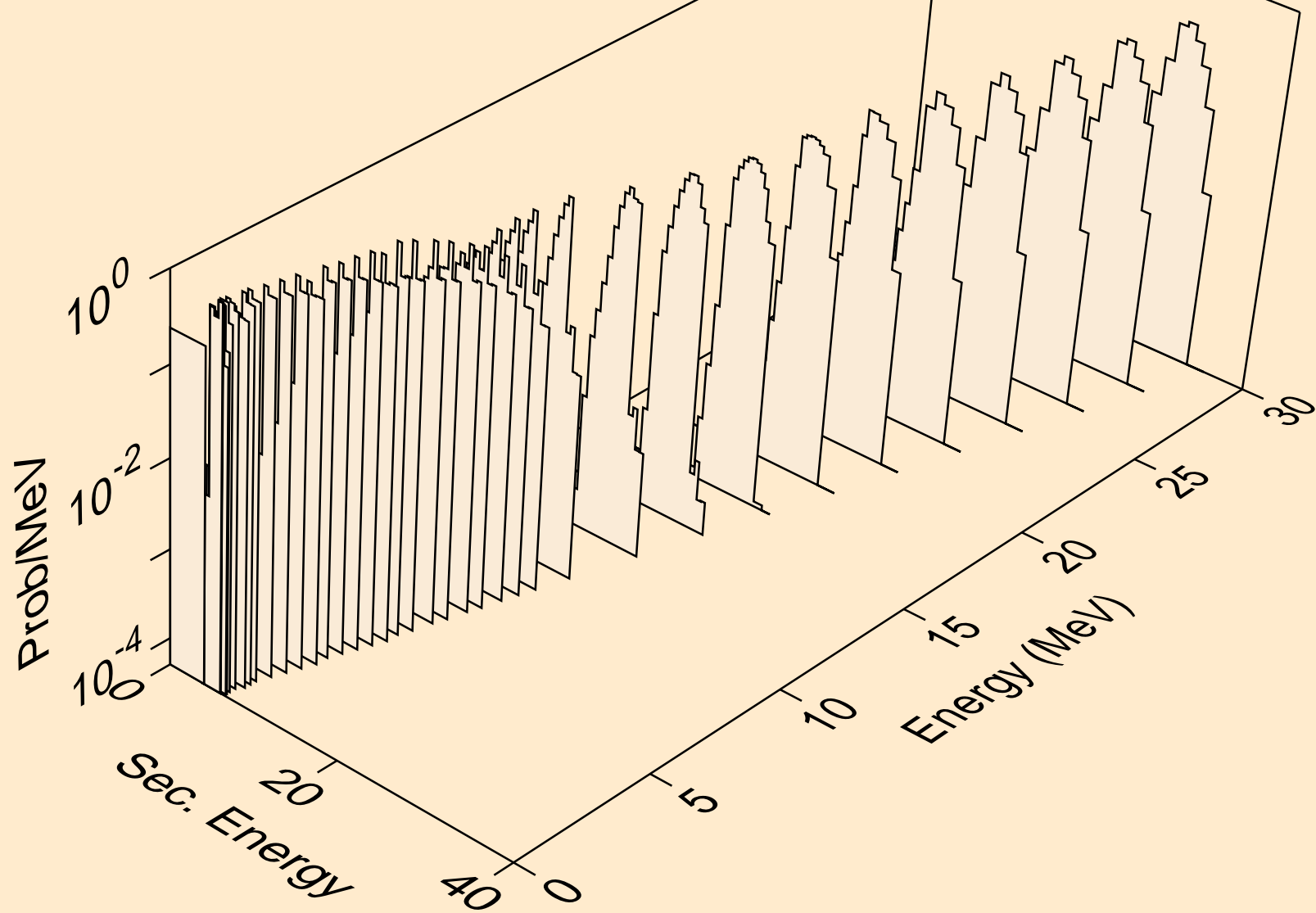




GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



GD159 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)

