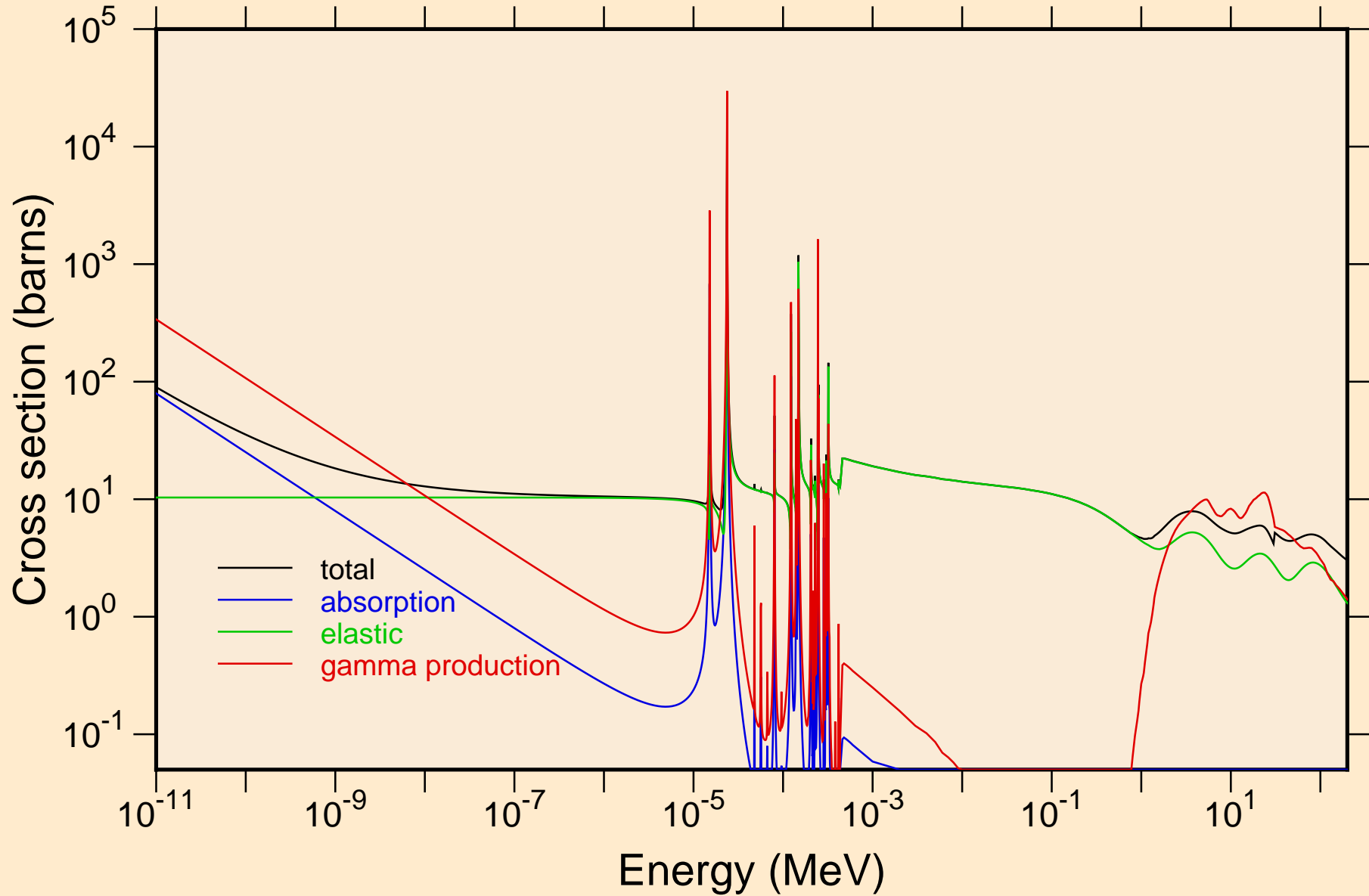
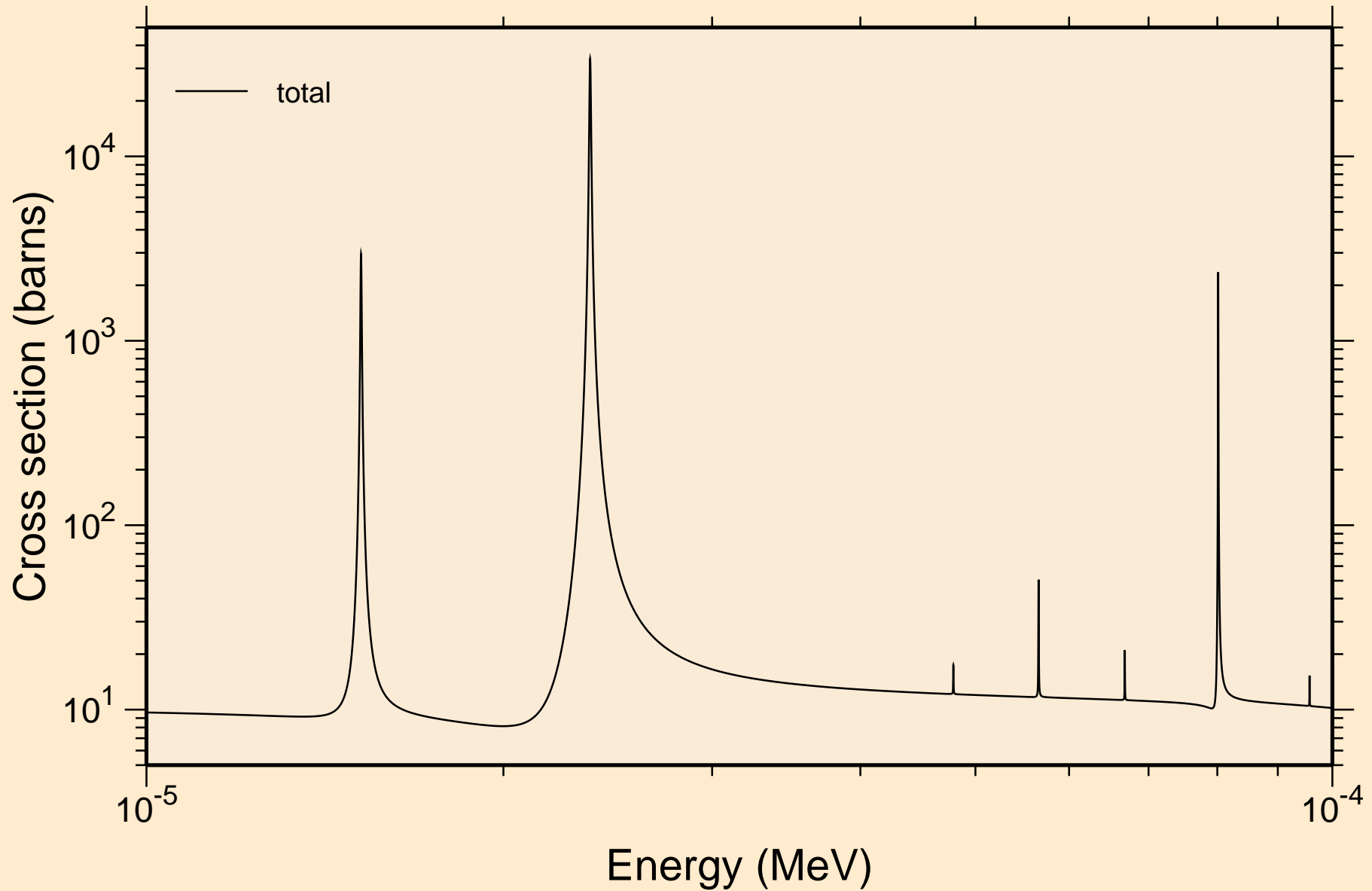


# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

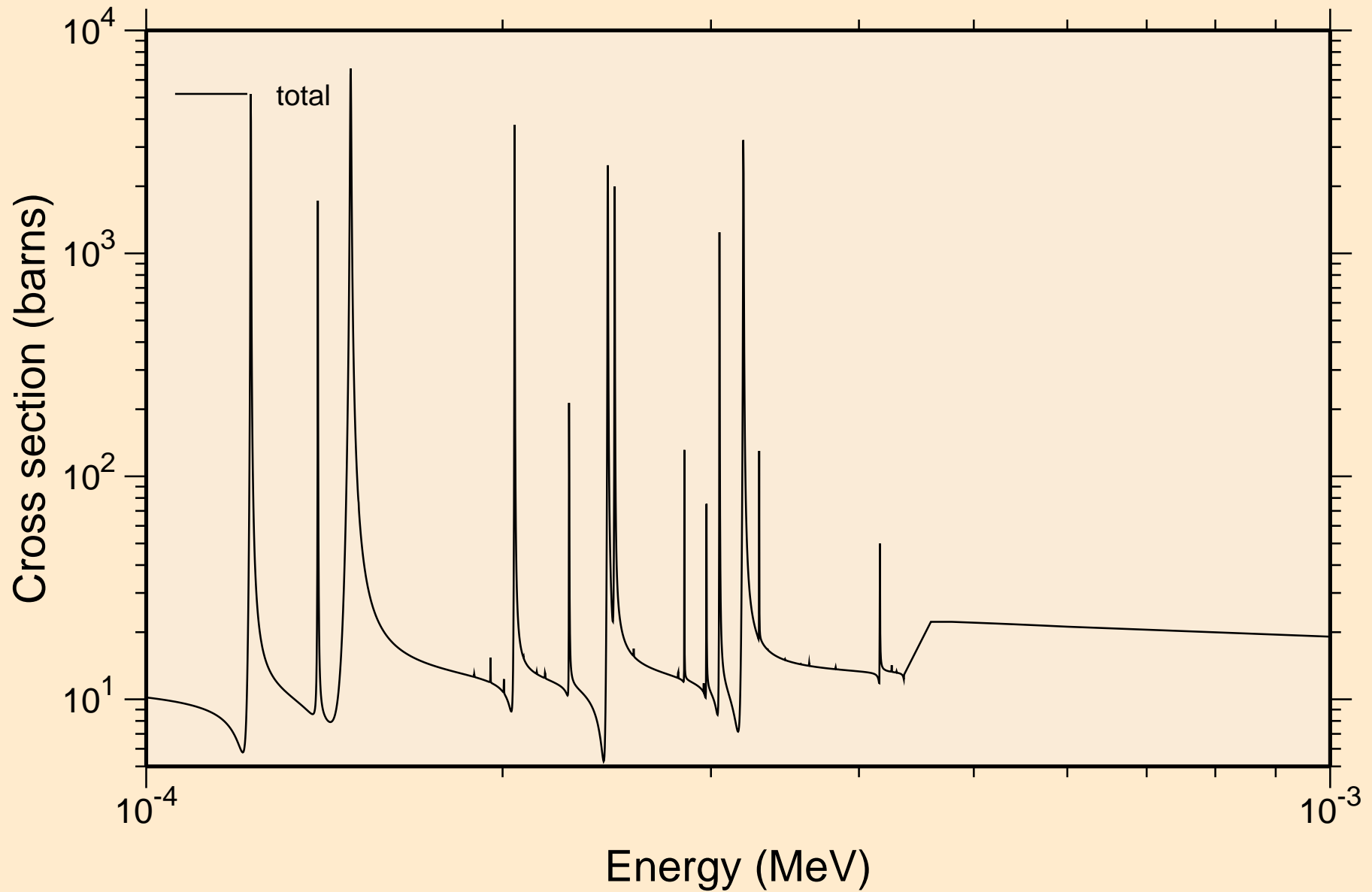
## Principal cross sections



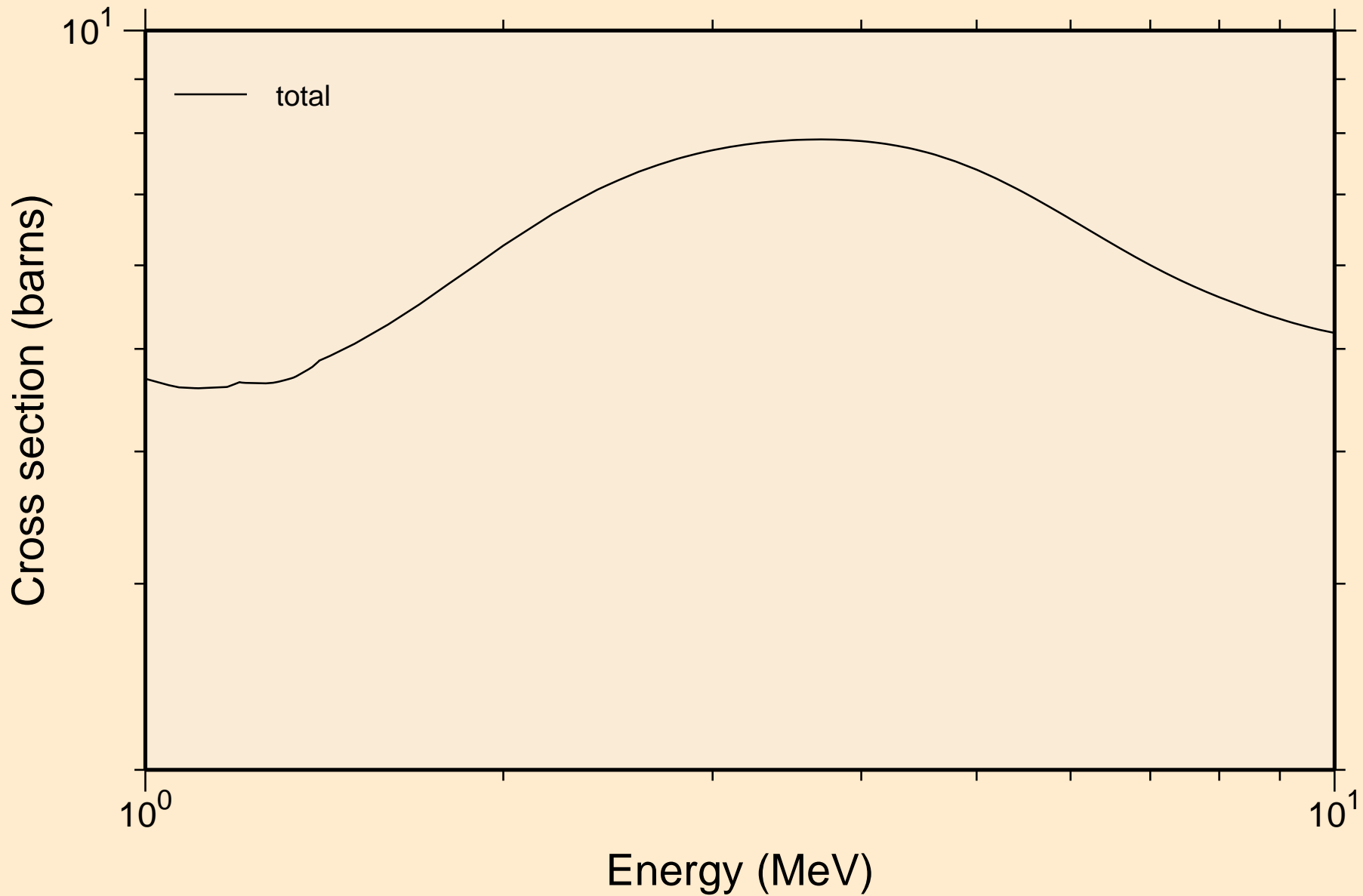
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



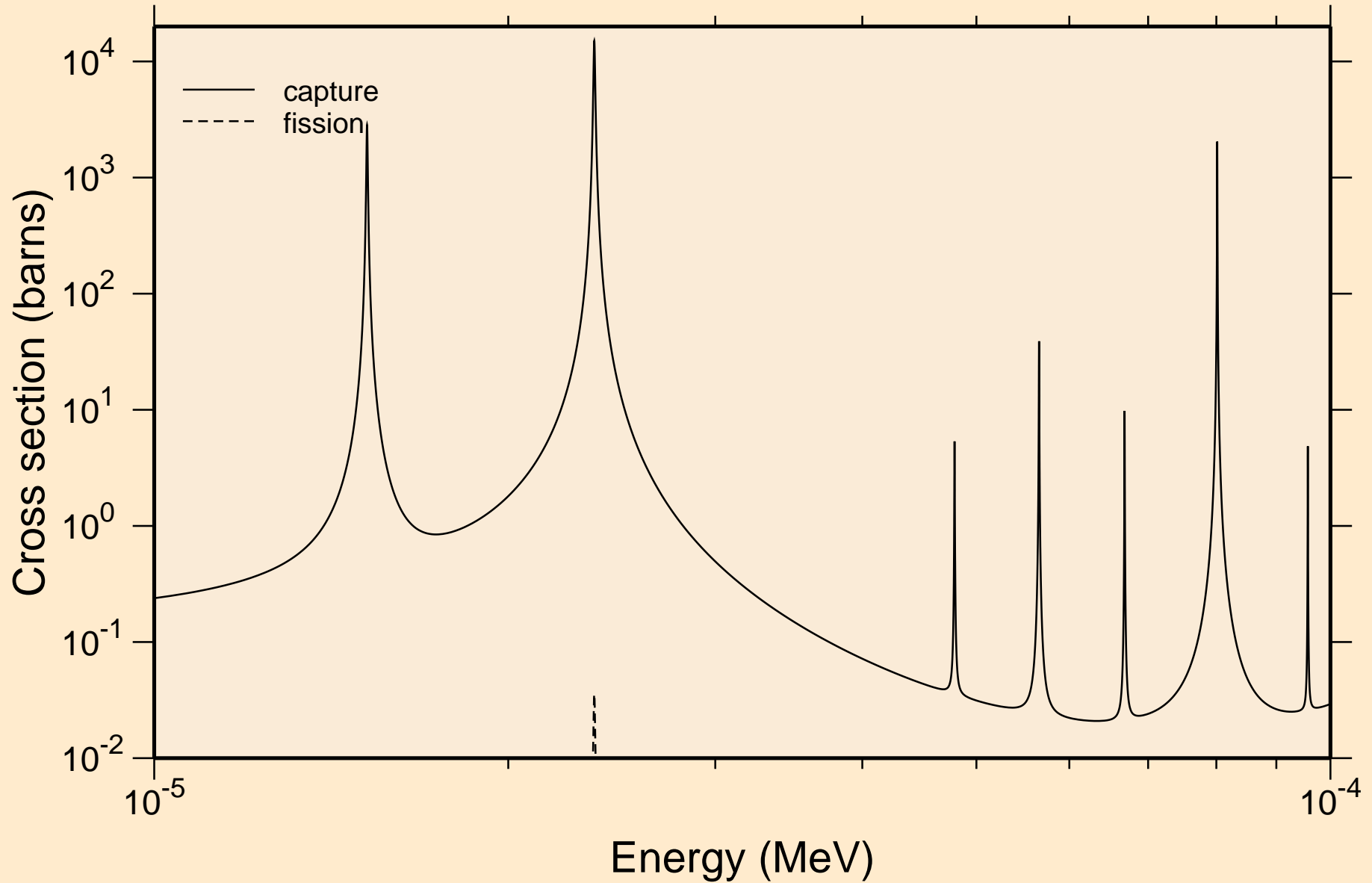
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



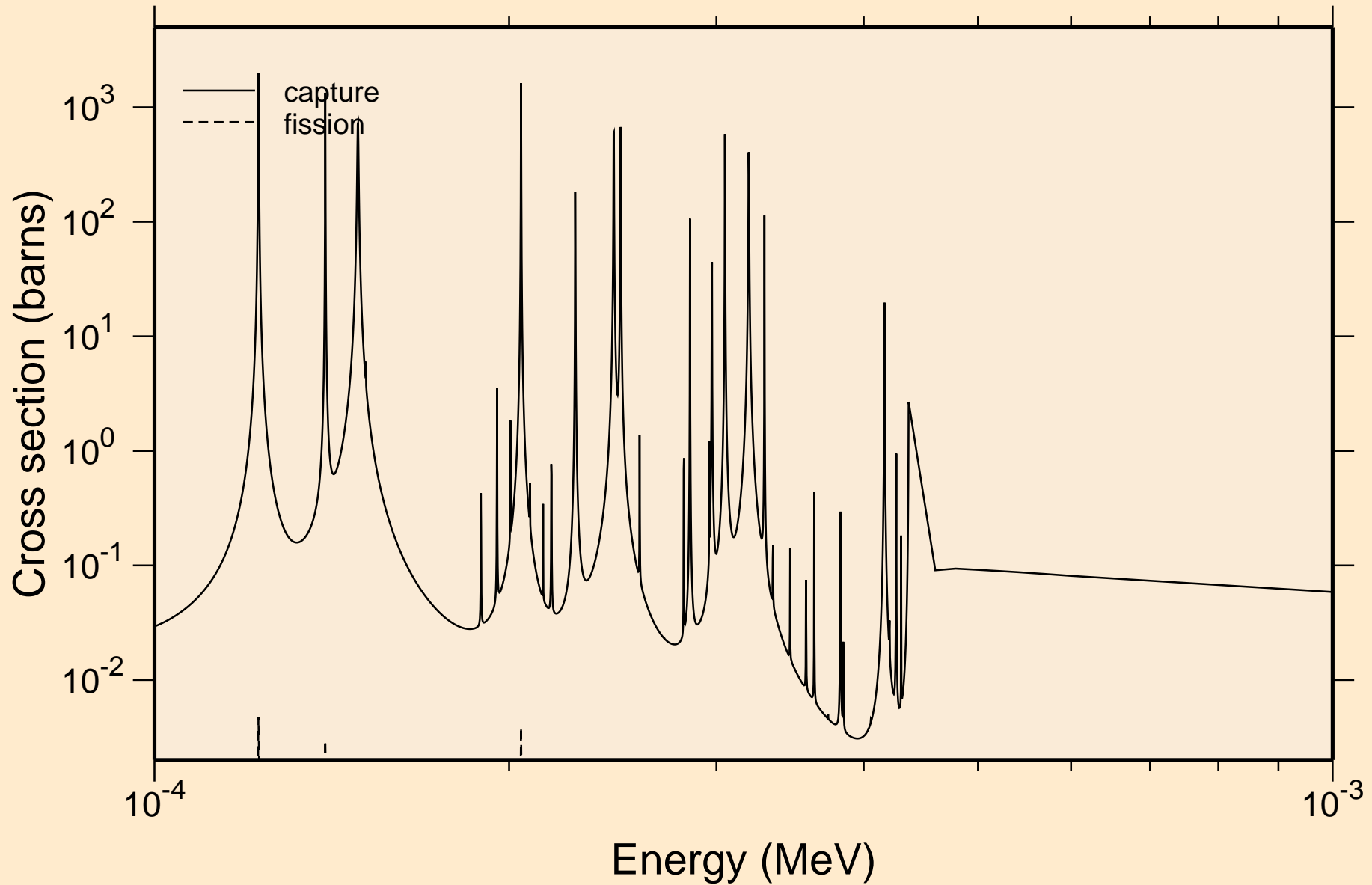
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



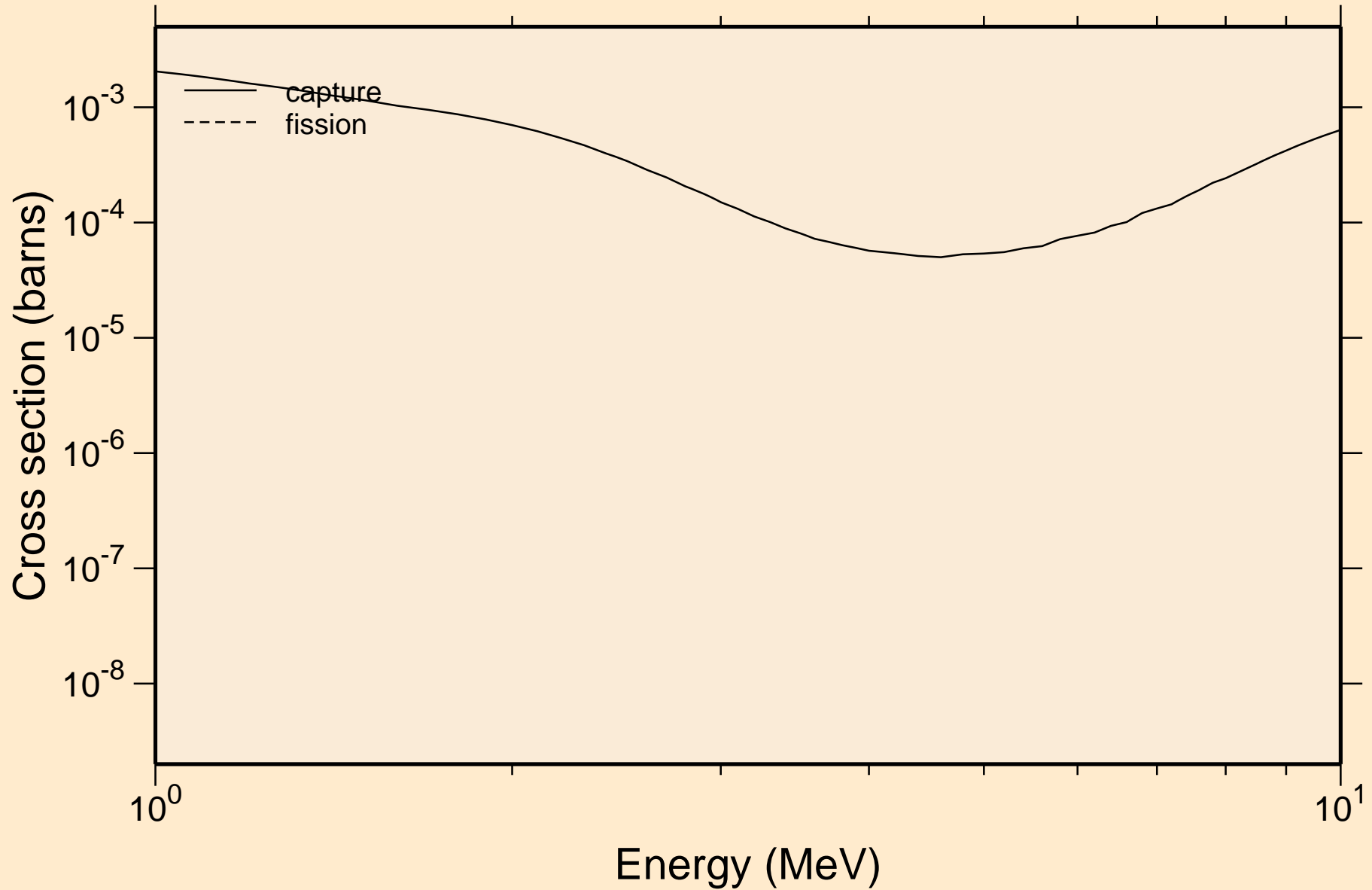
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

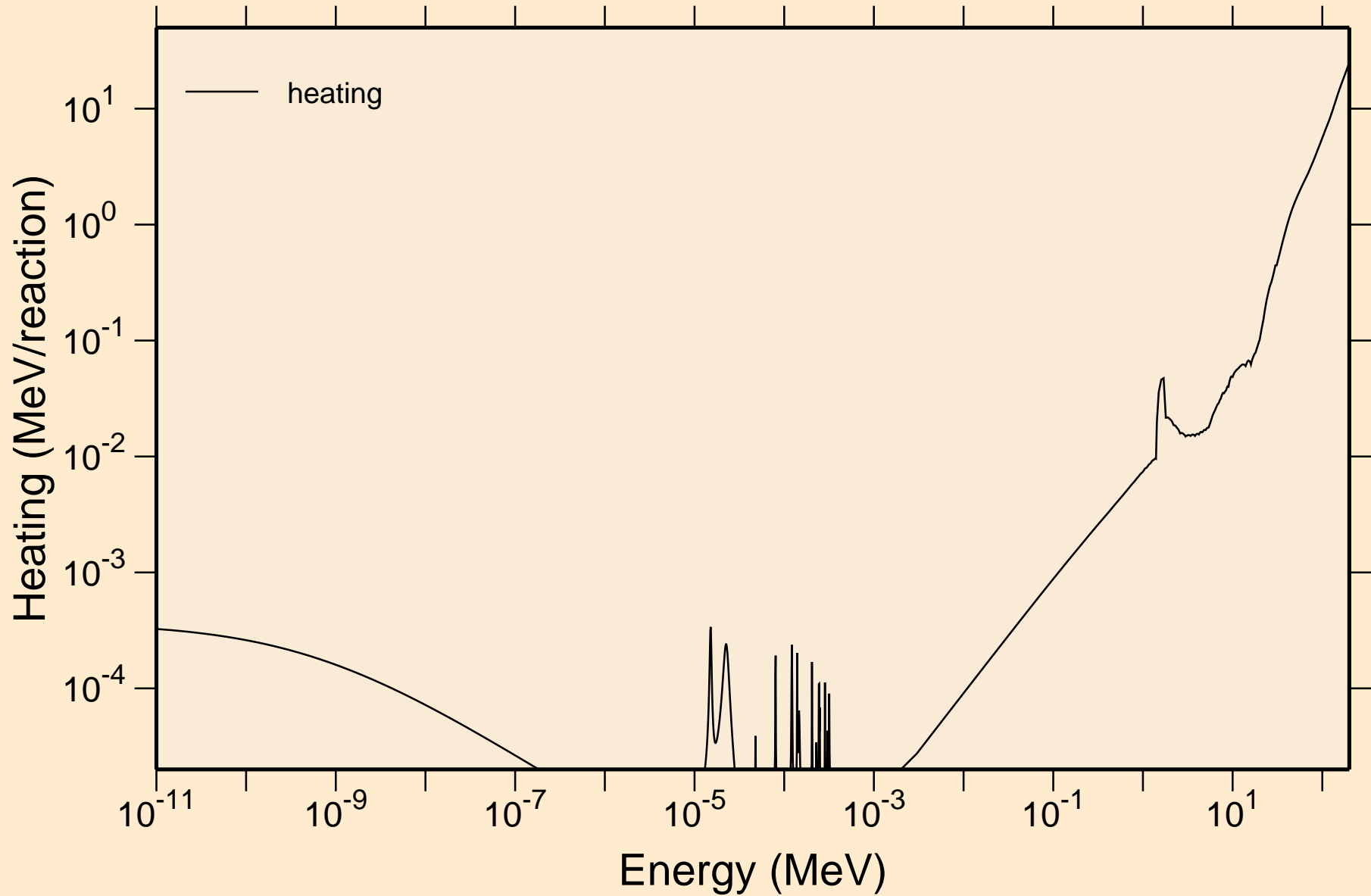


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



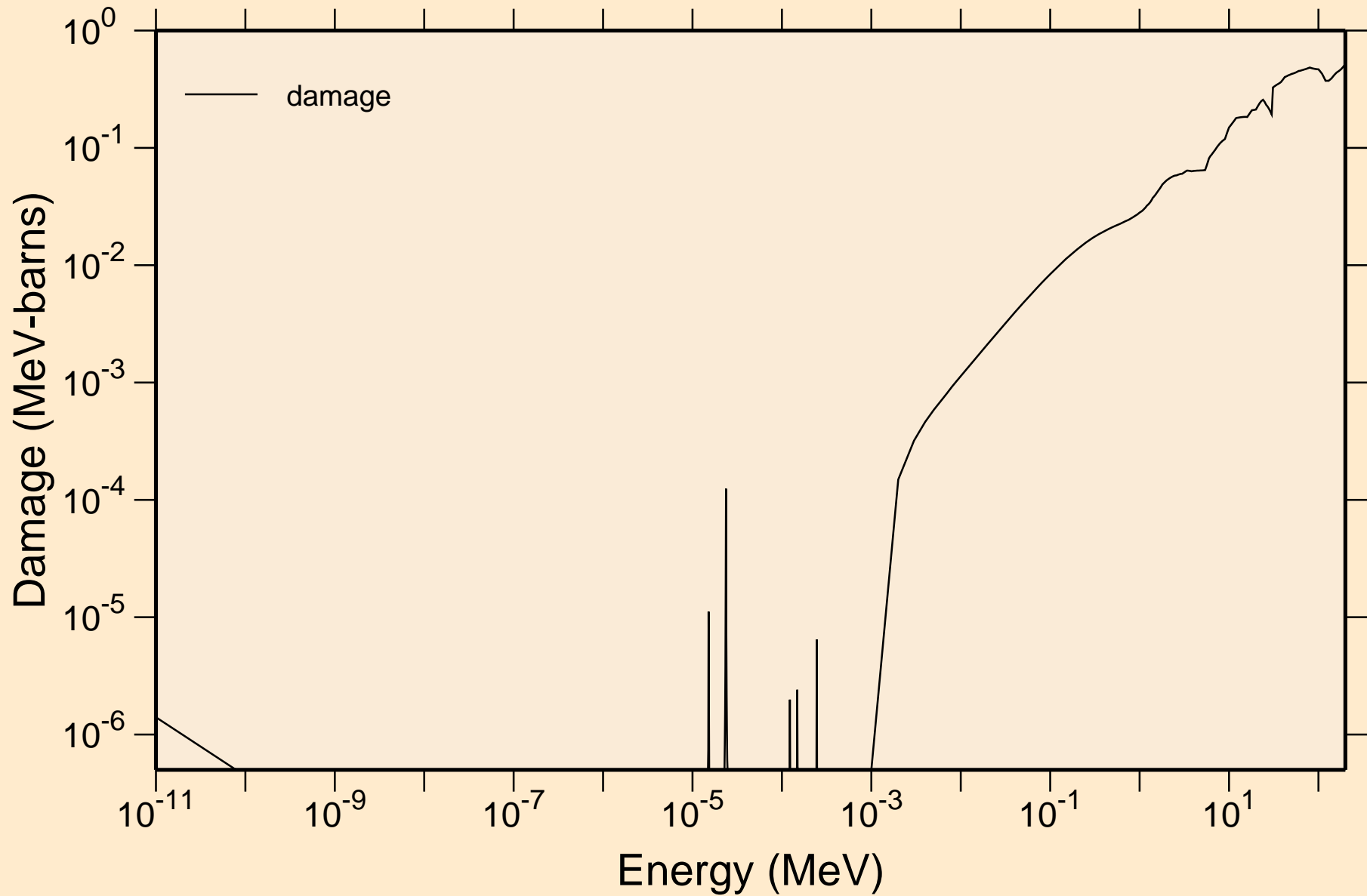
# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

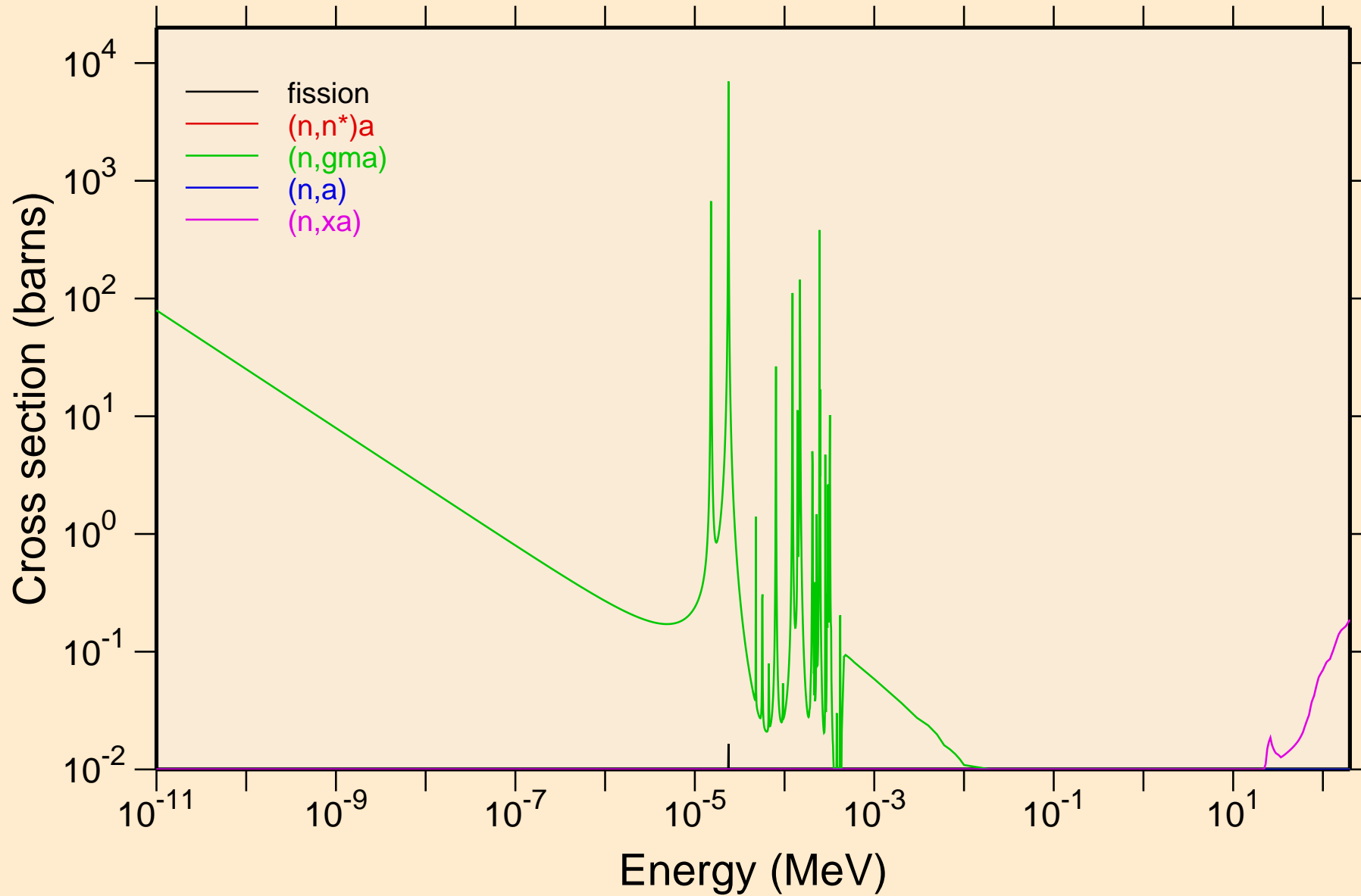


# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

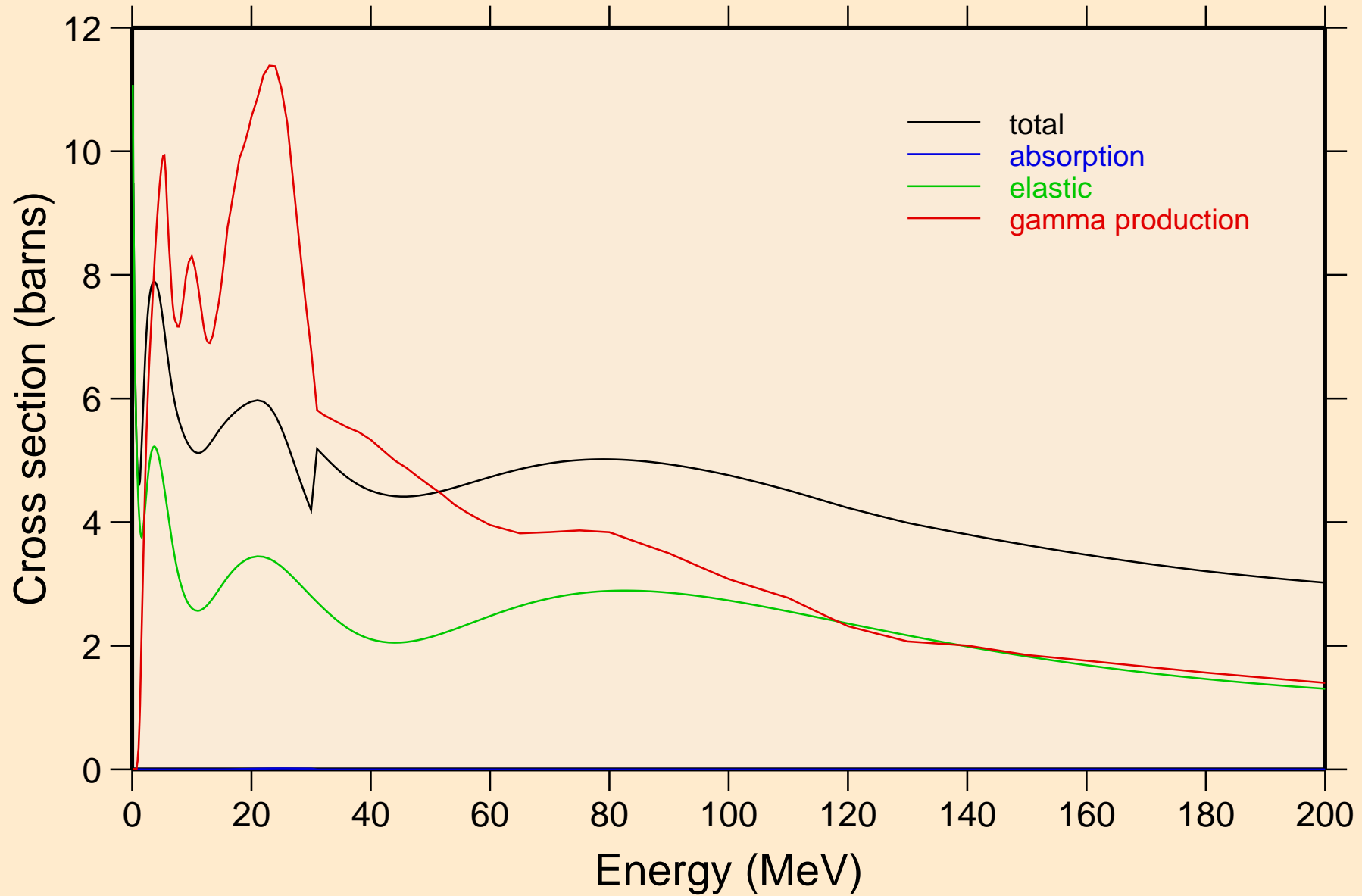


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



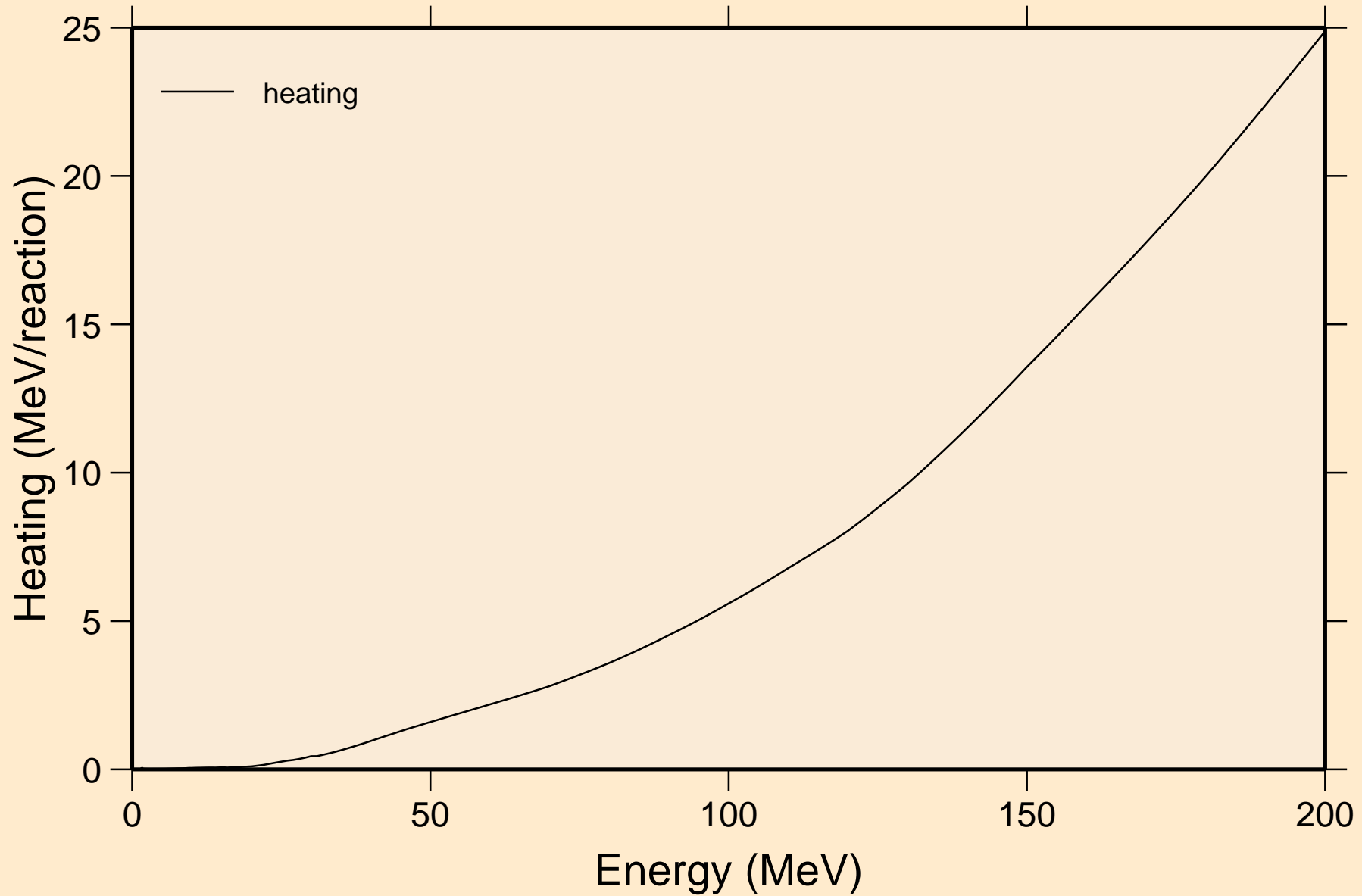
# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

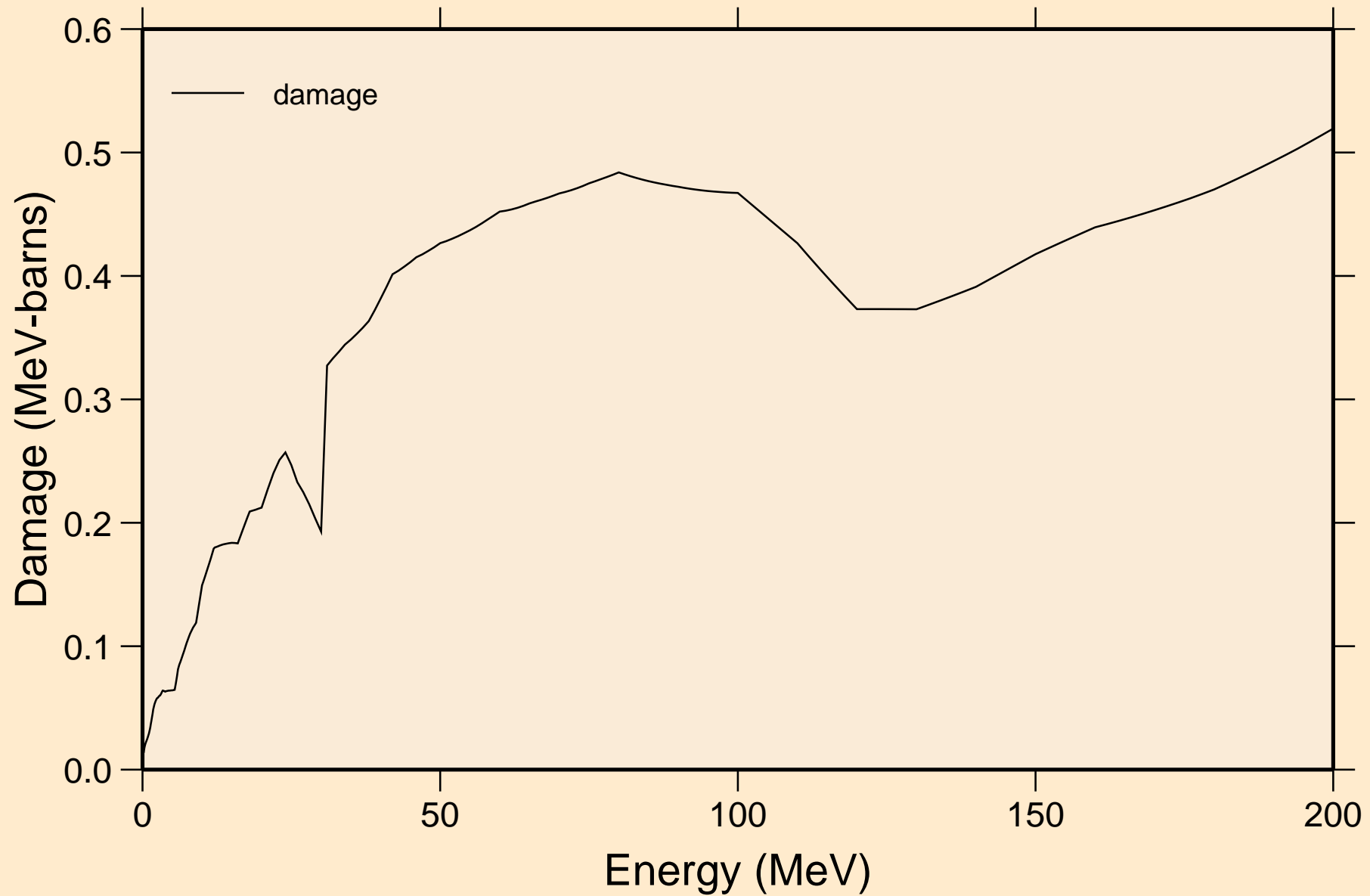


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

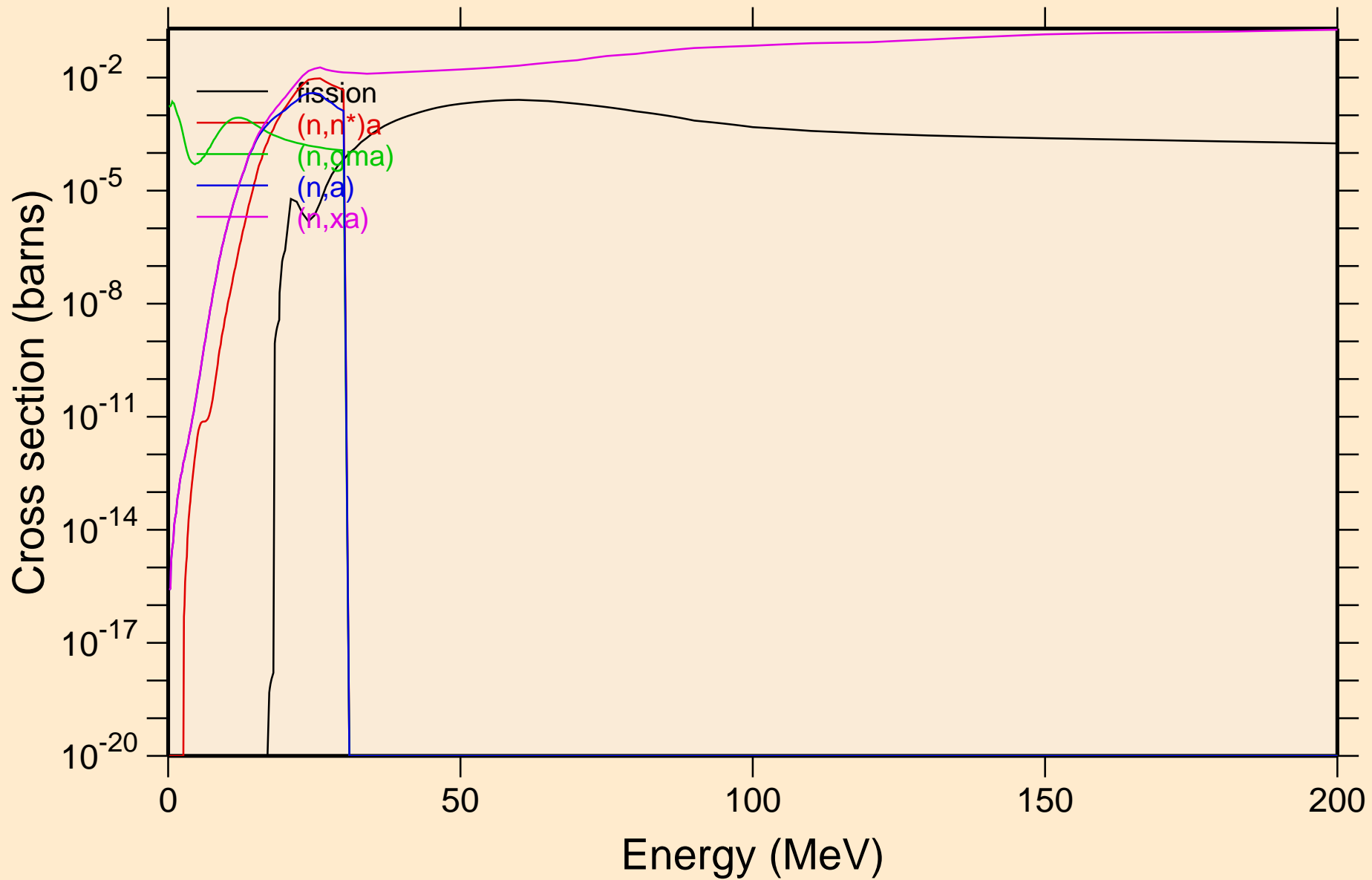
Heating



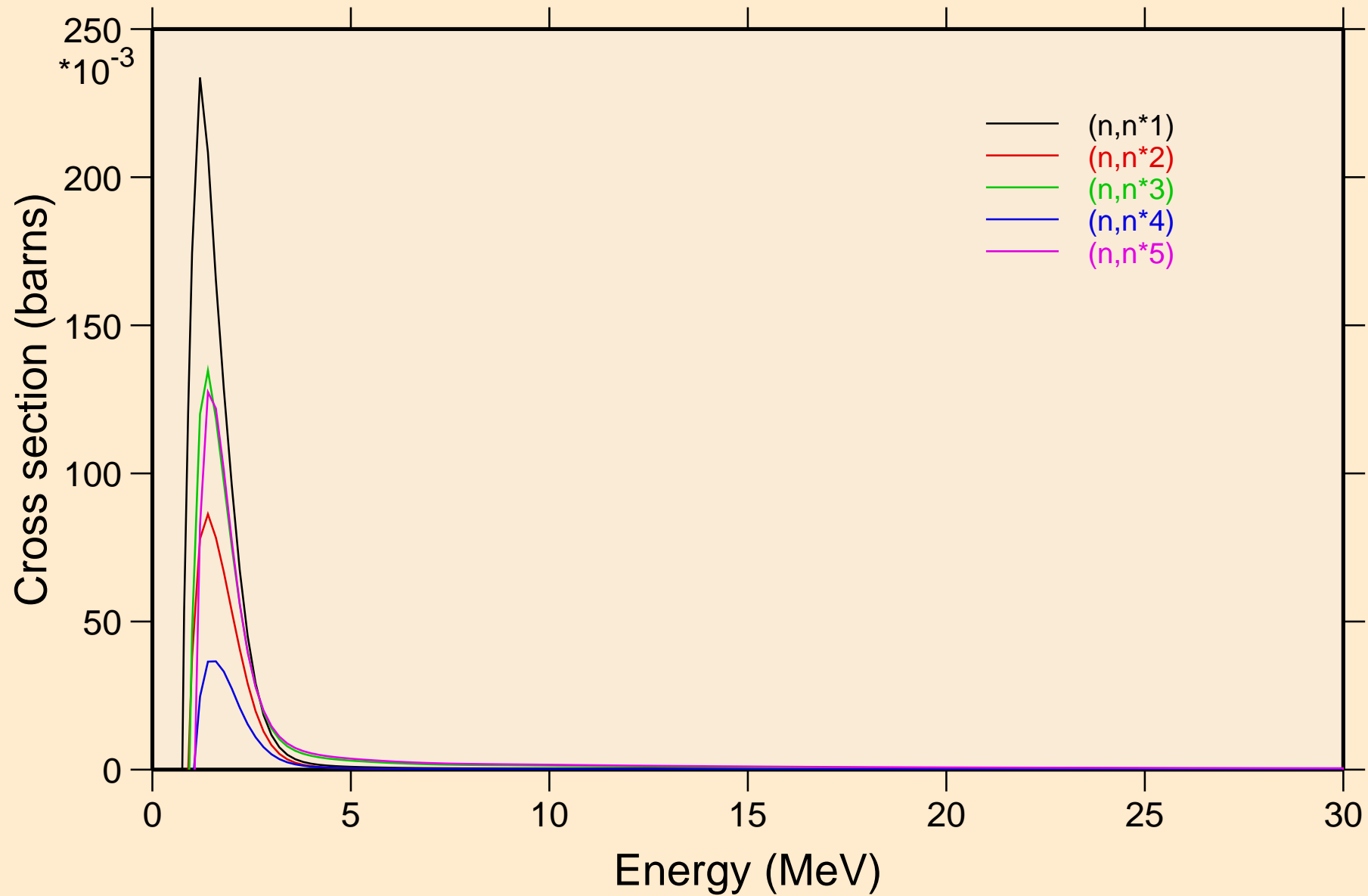
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



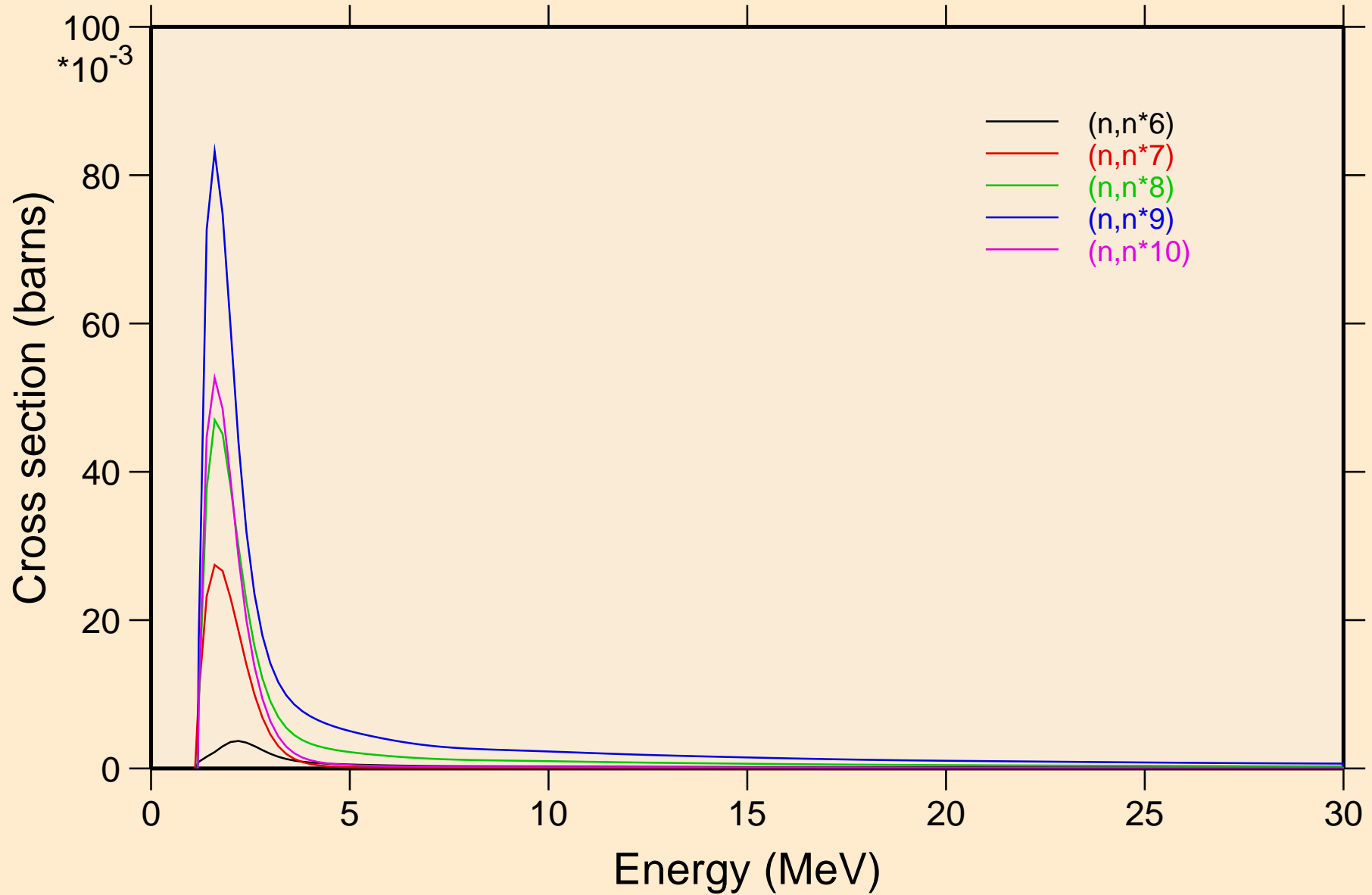
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



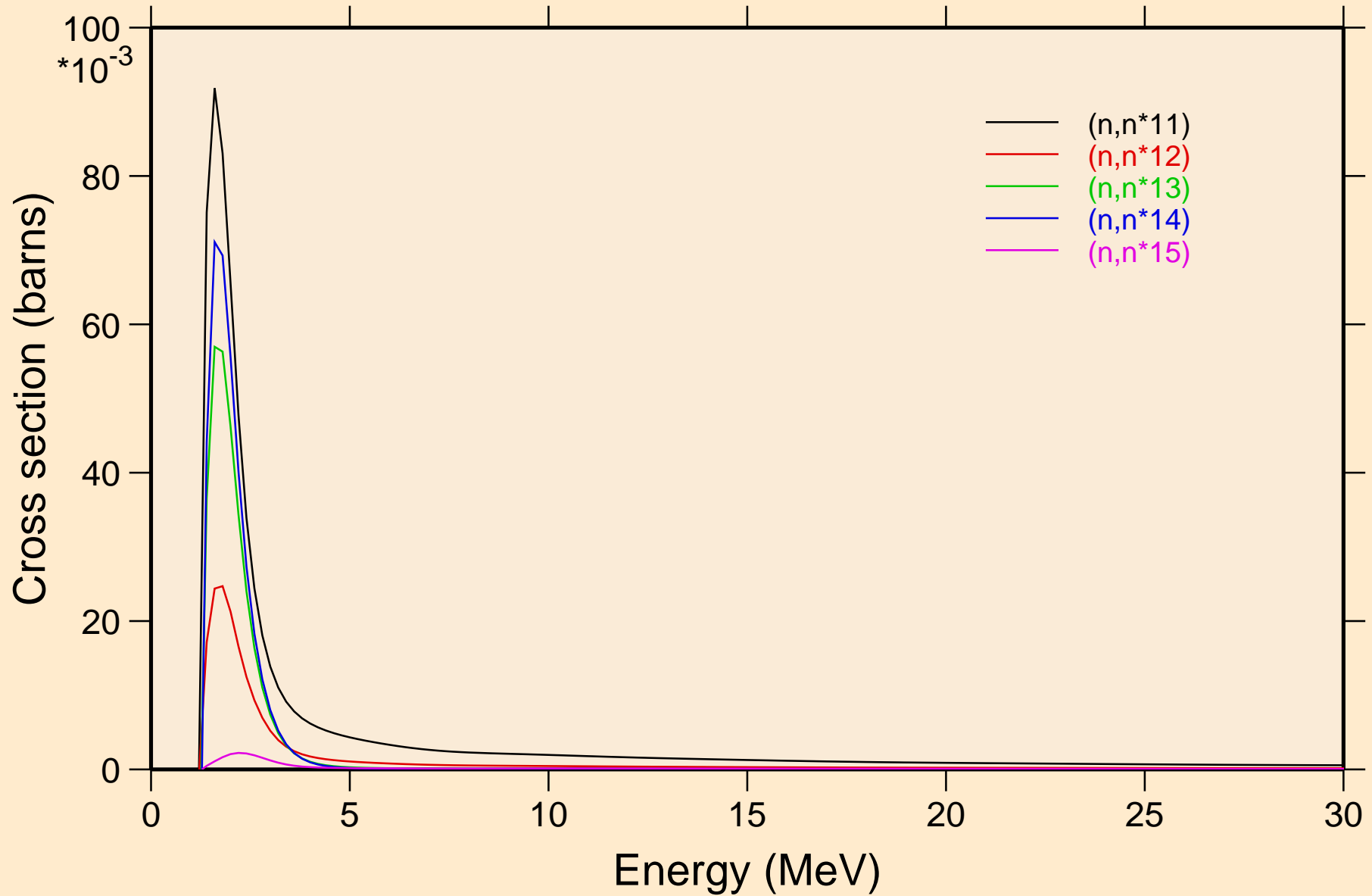
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



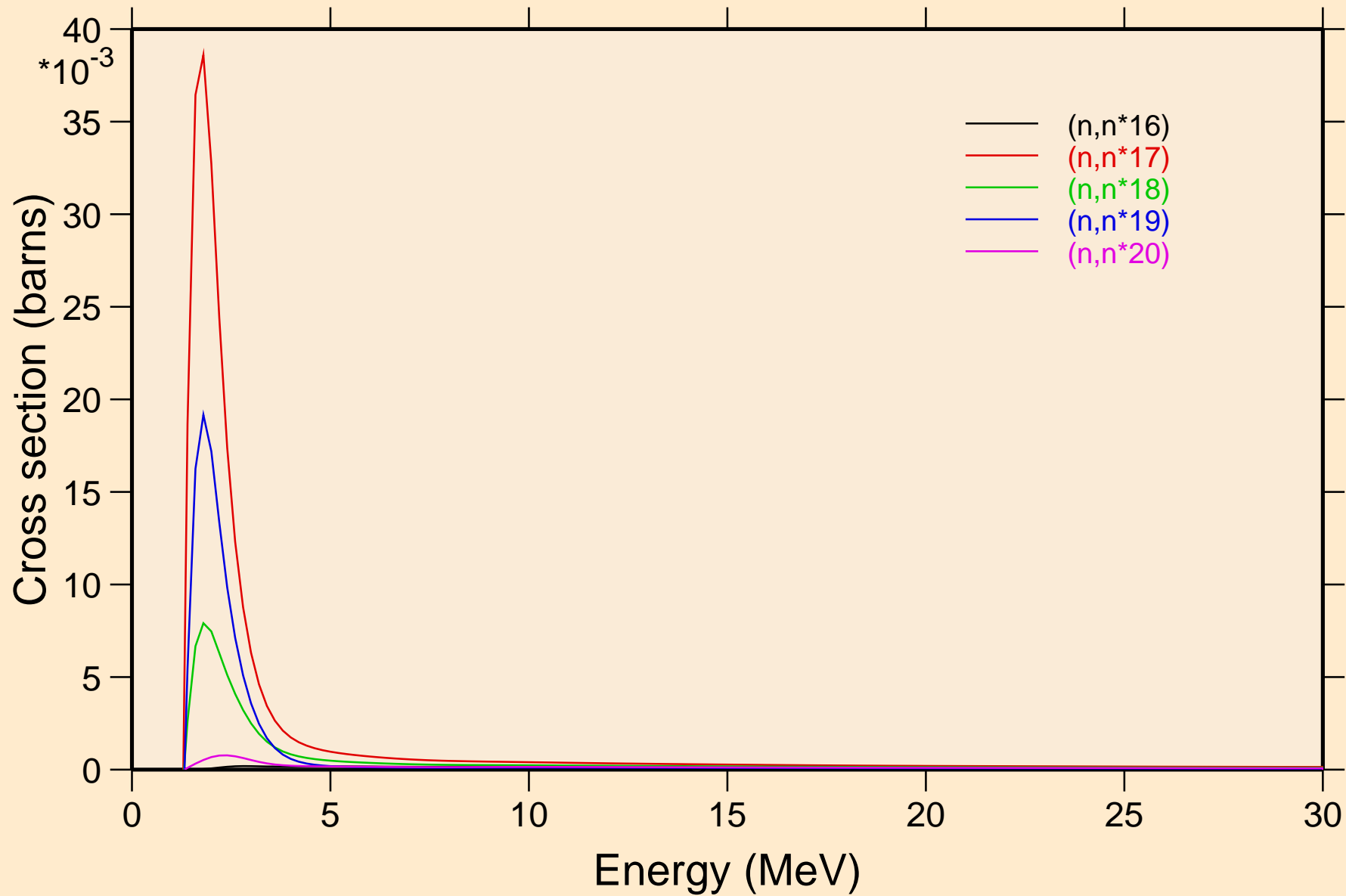
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



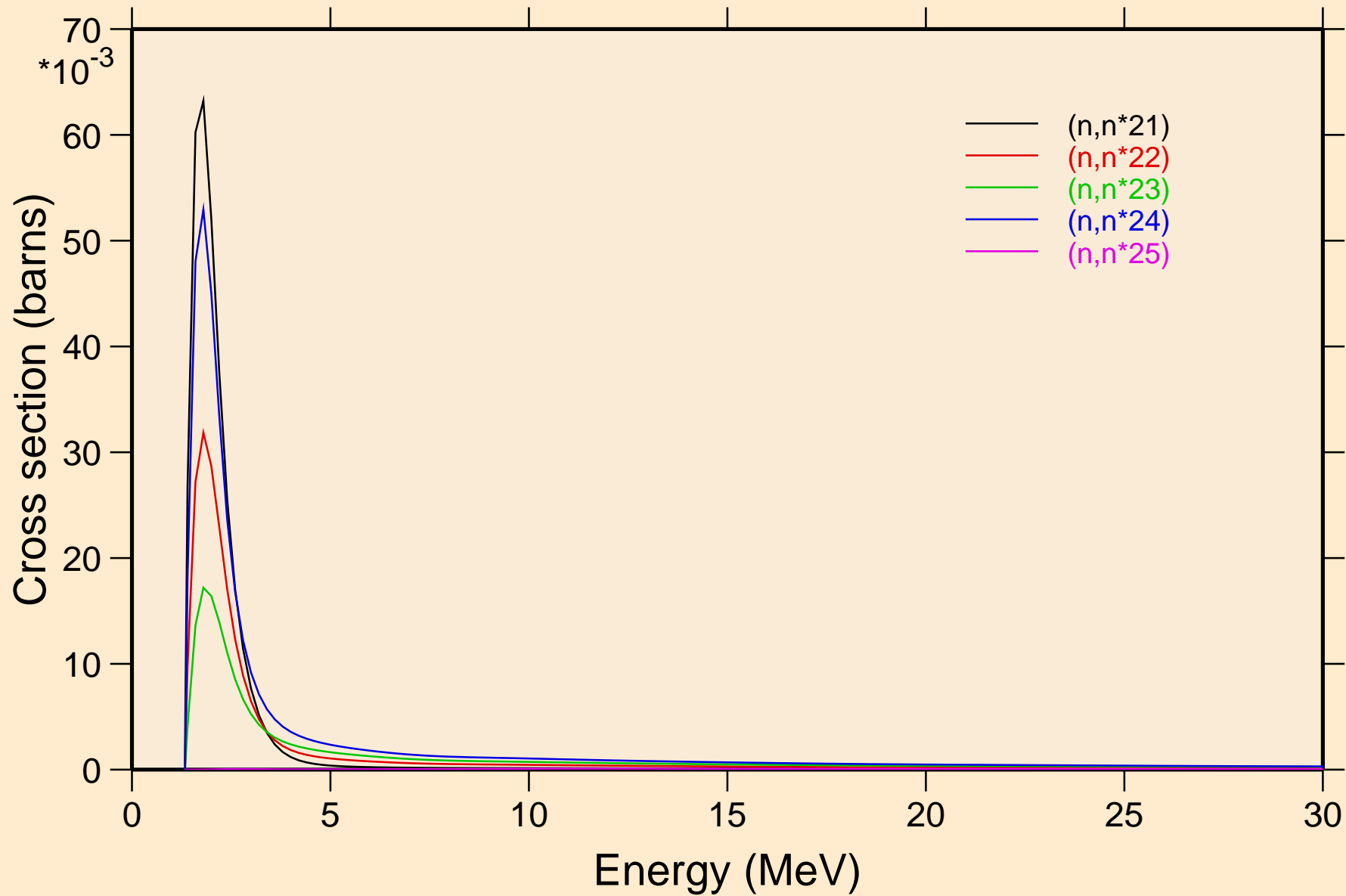
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



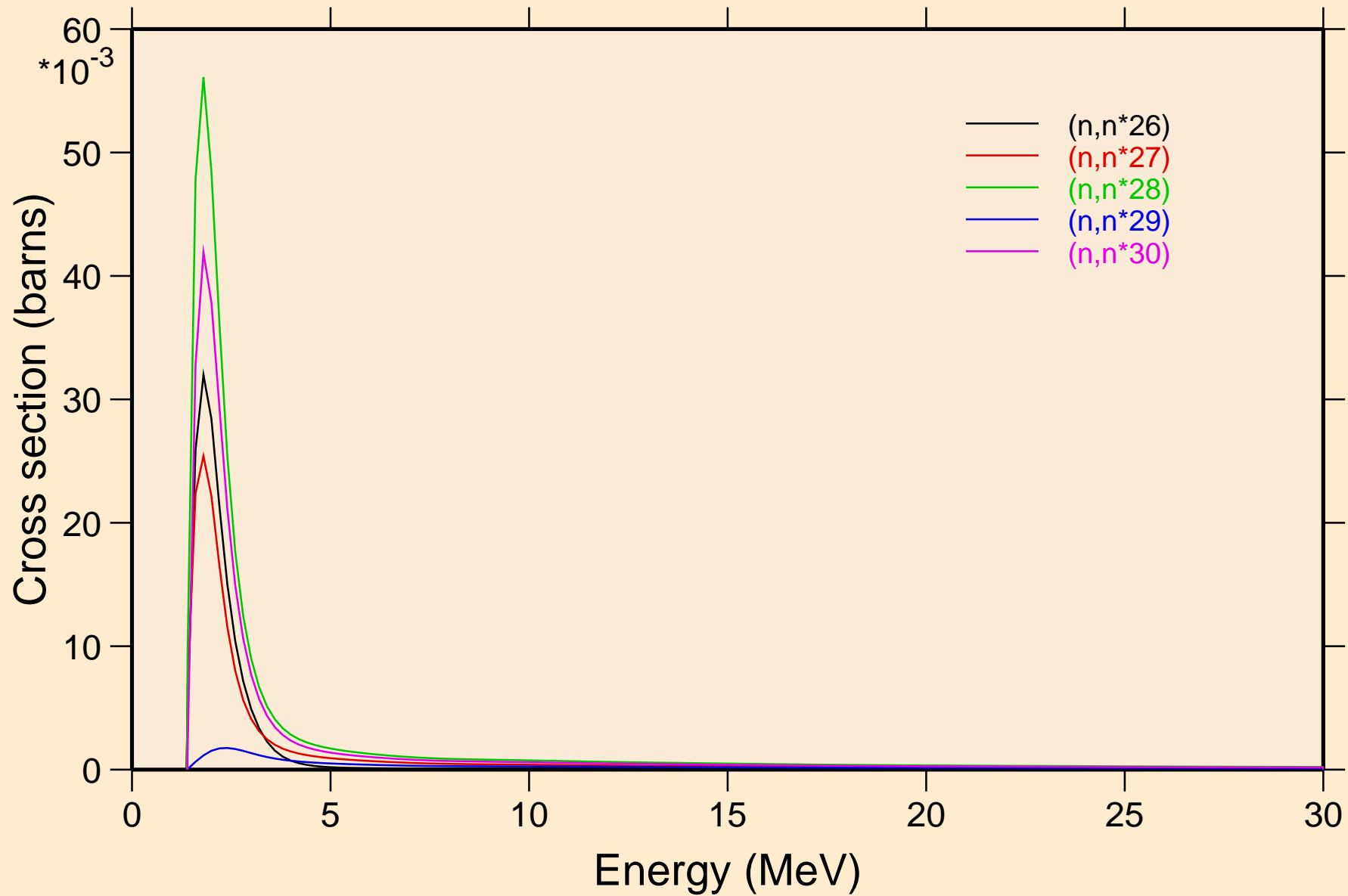
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



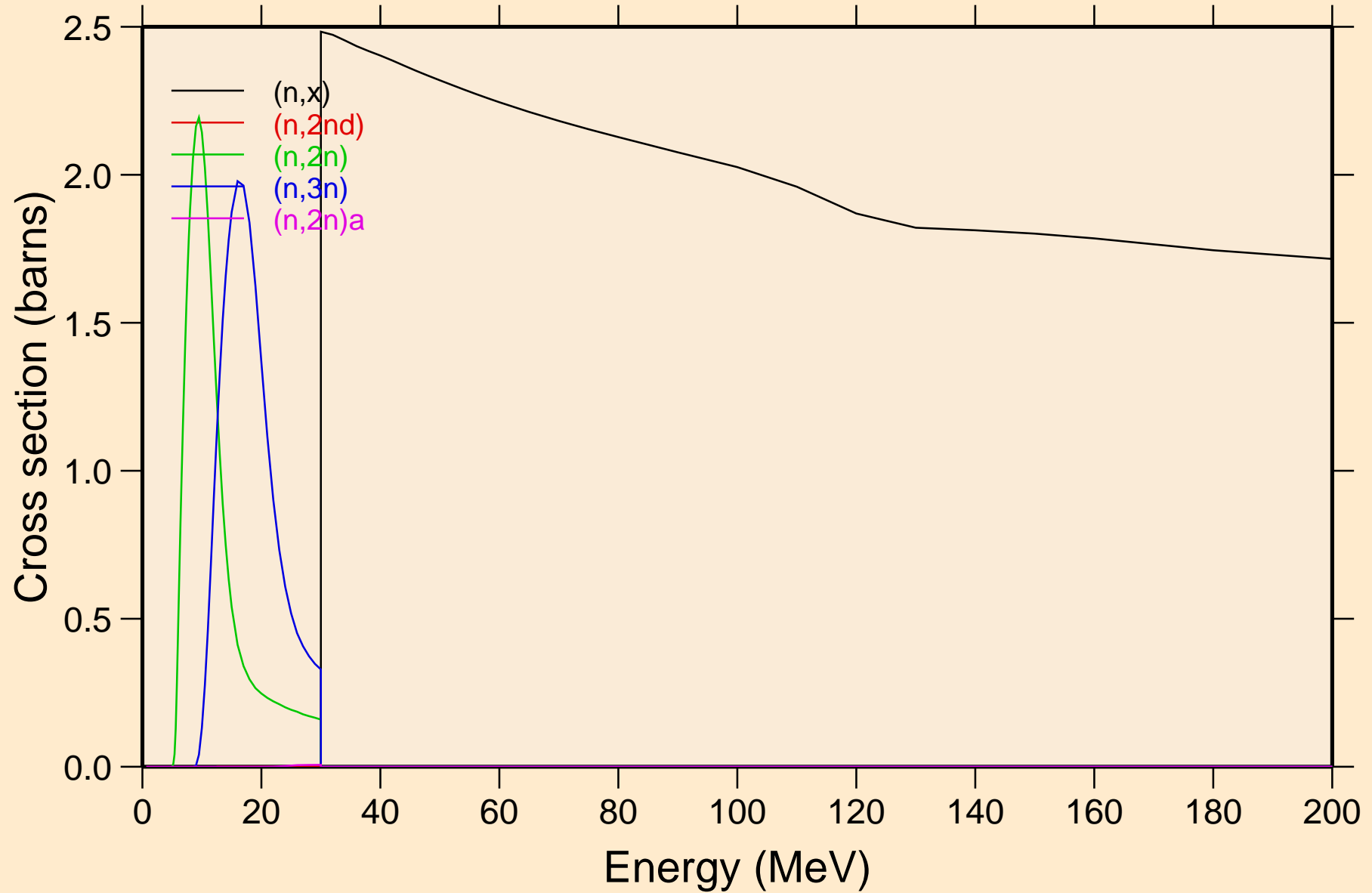
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



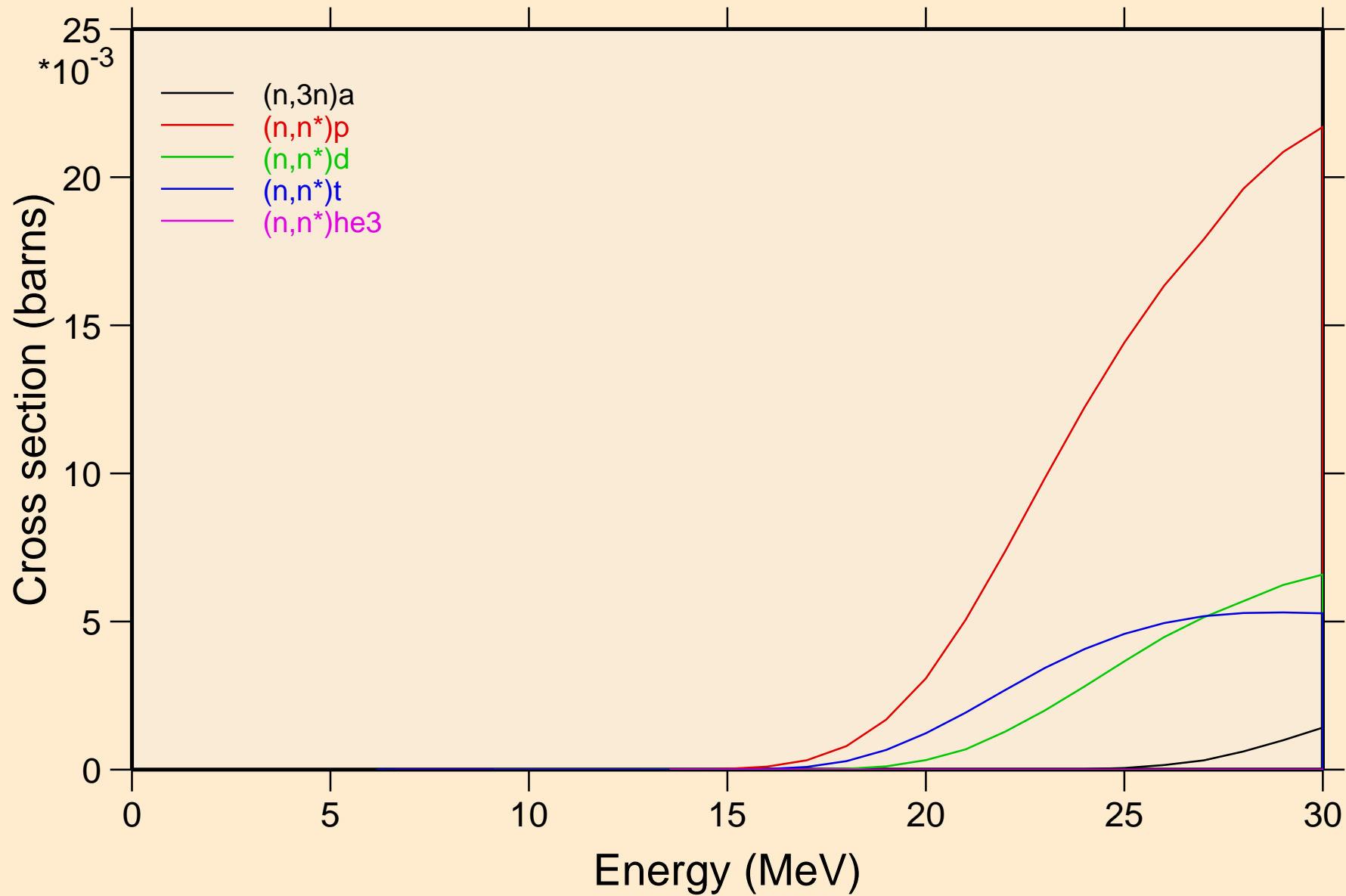
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



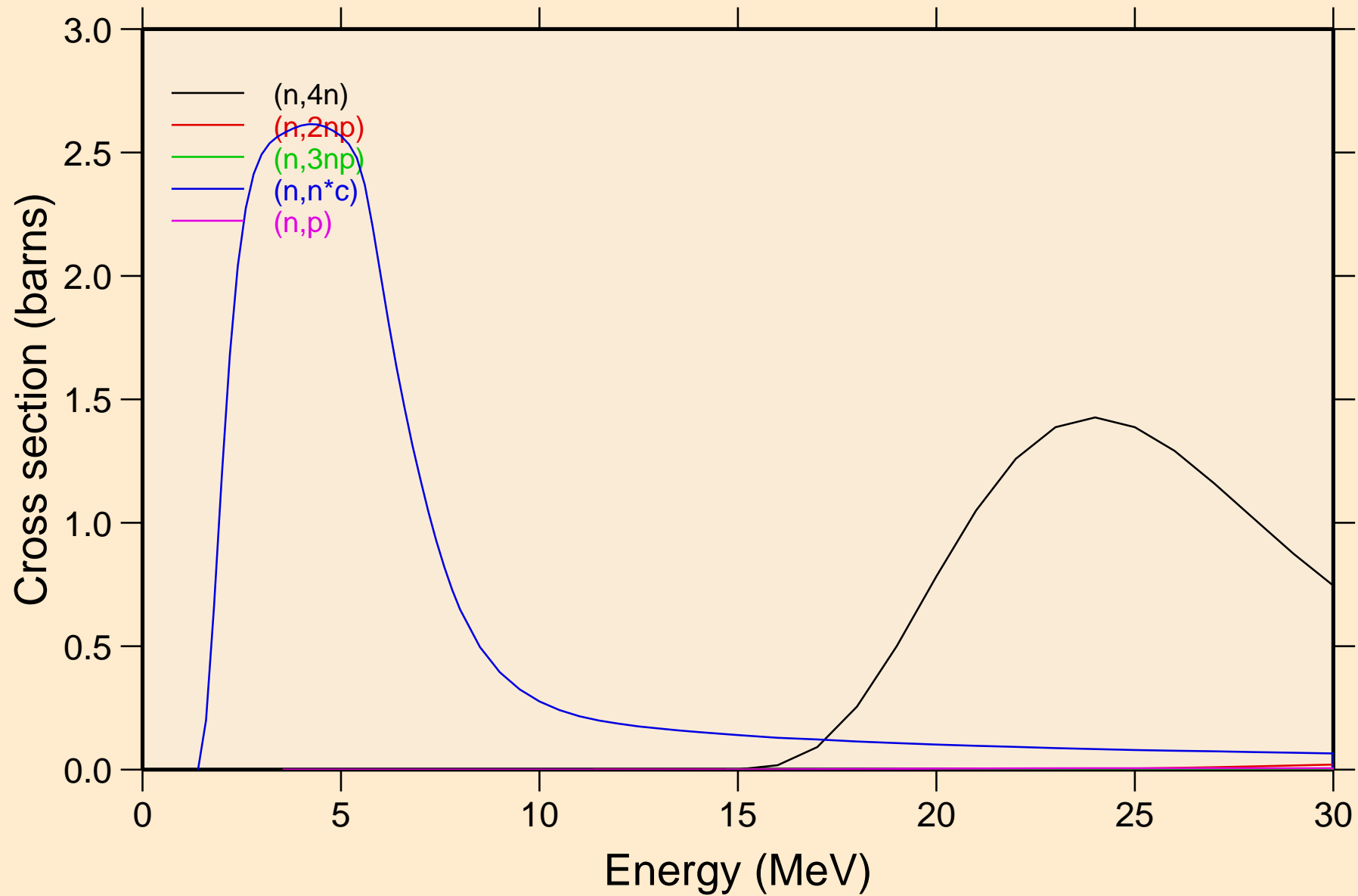
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



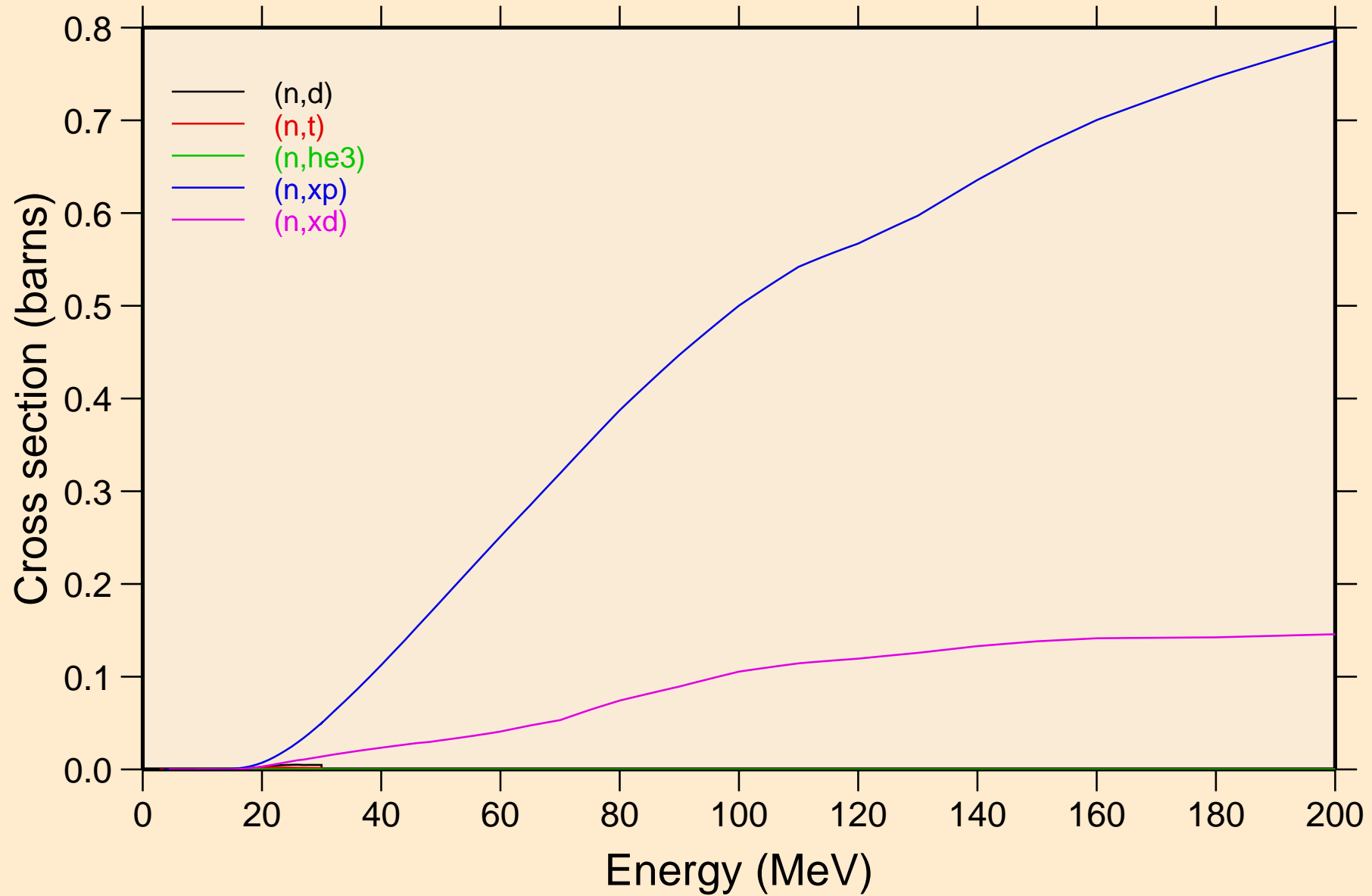
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



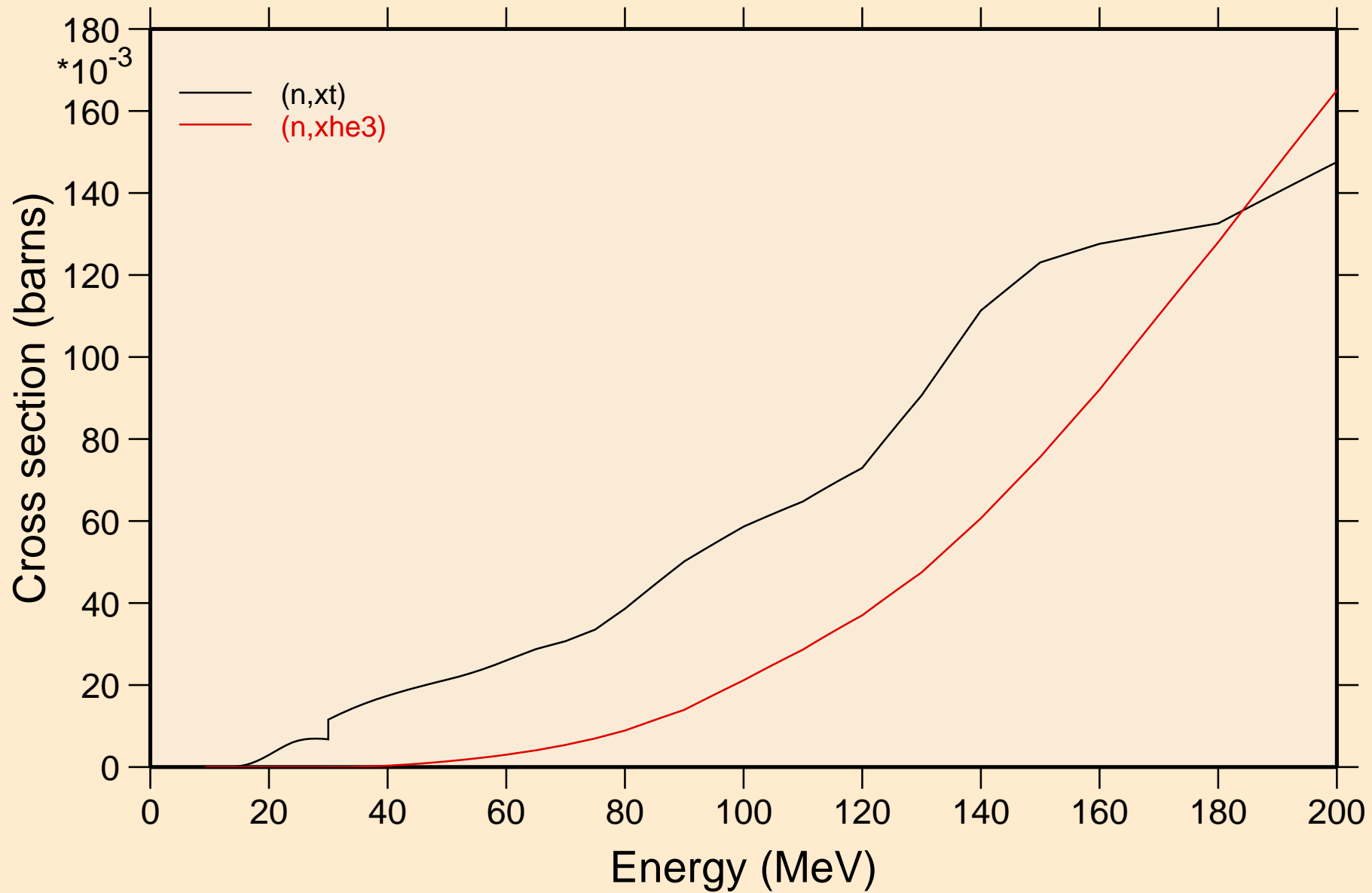
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



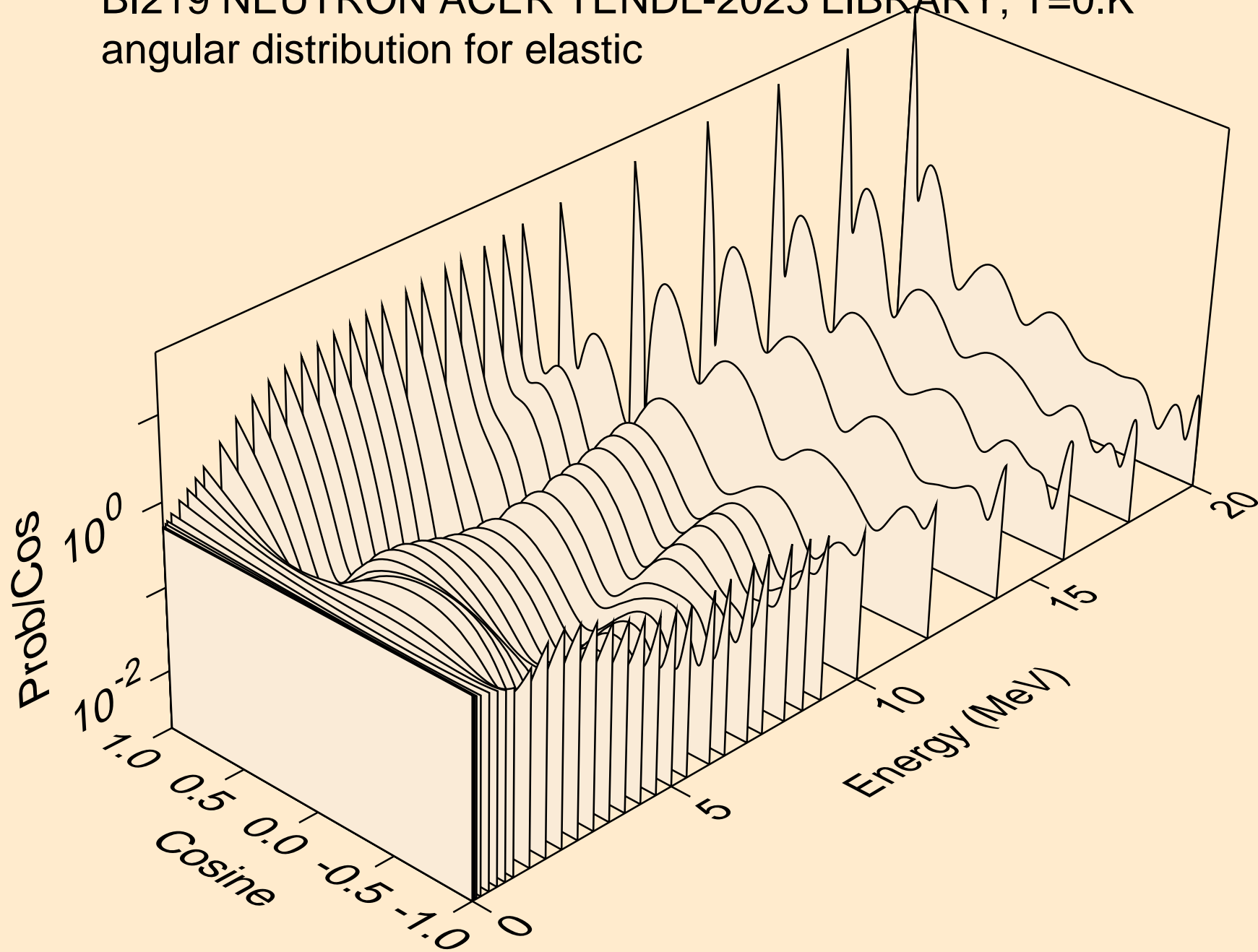
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Threshold reactions



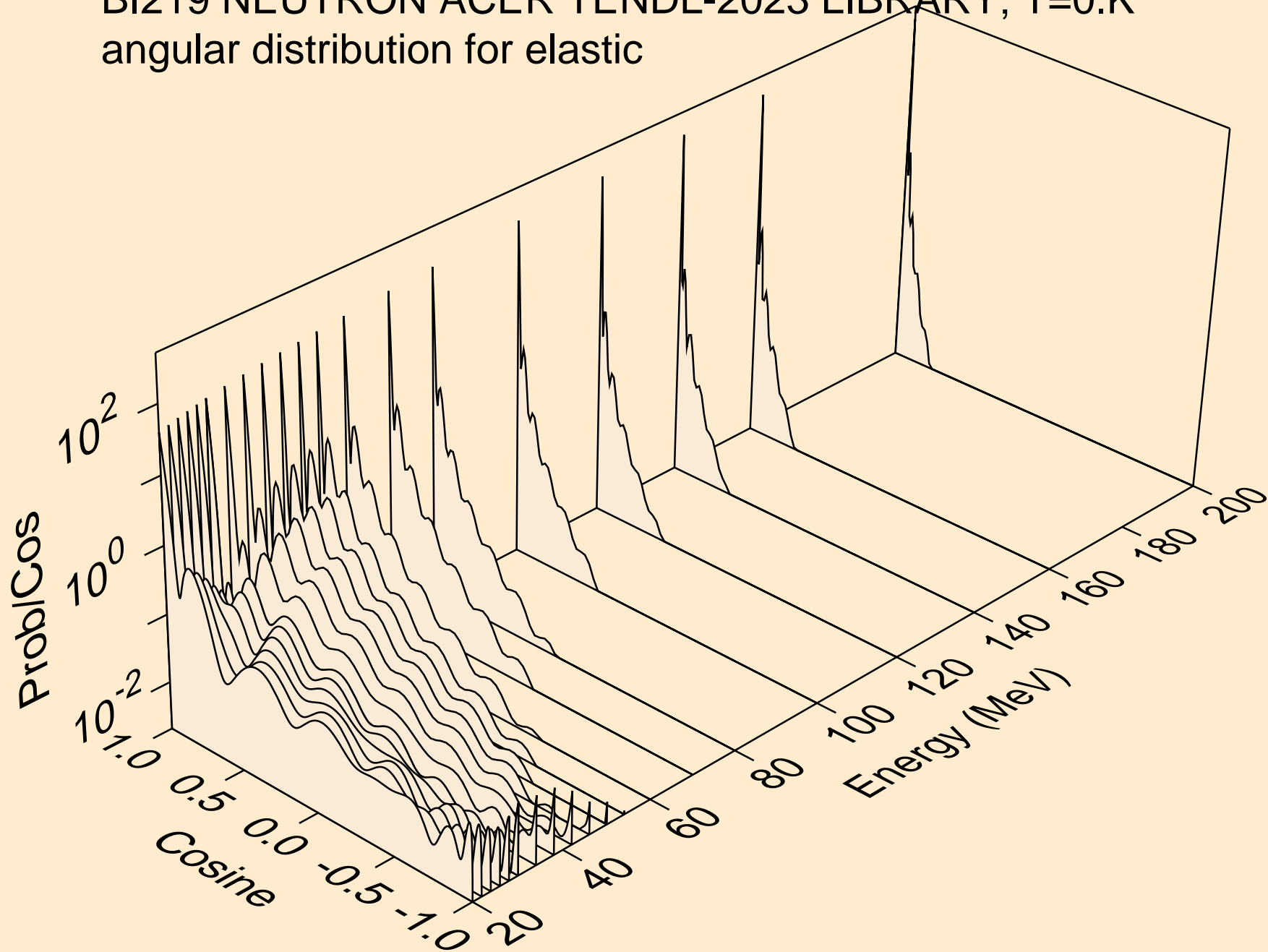
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



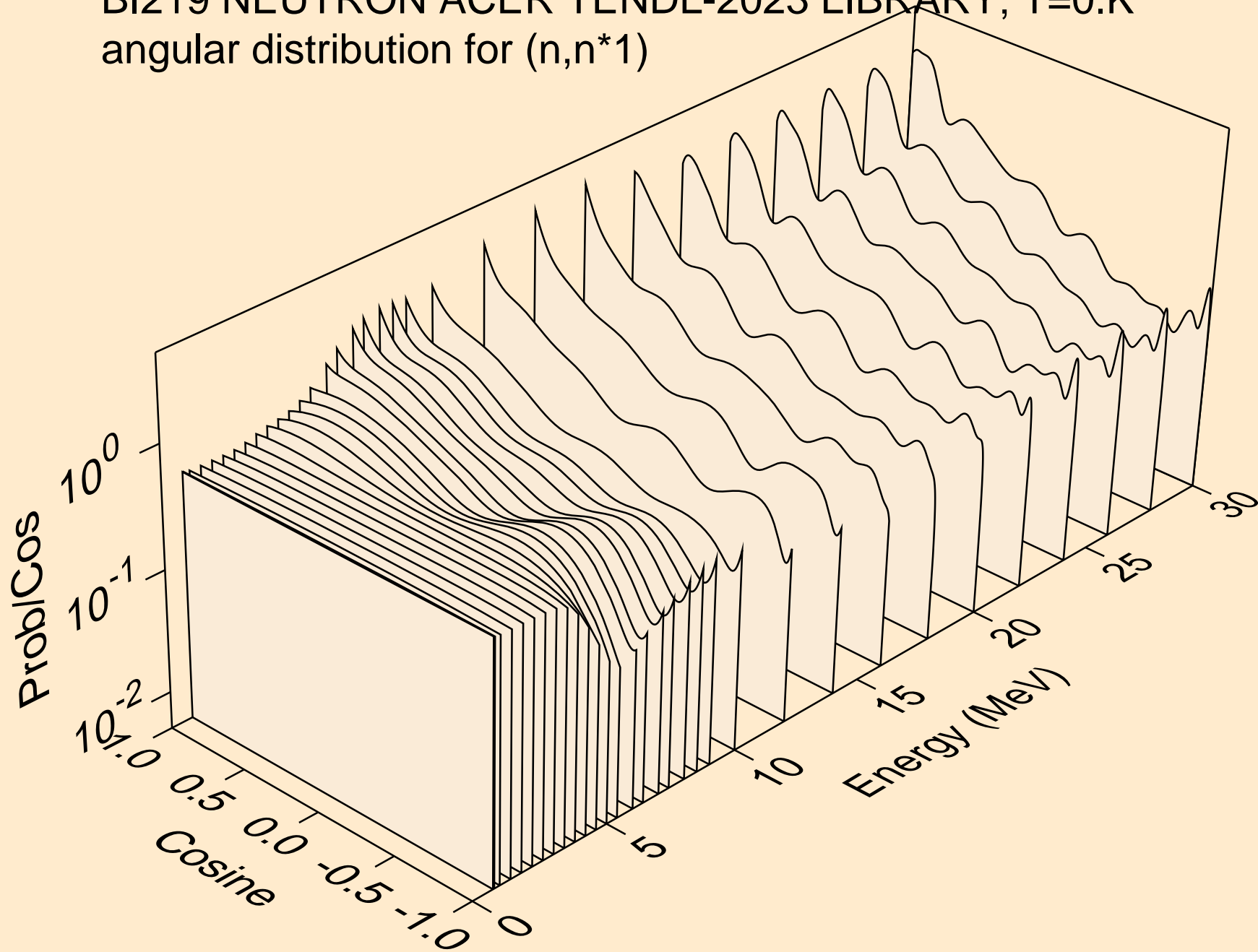
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



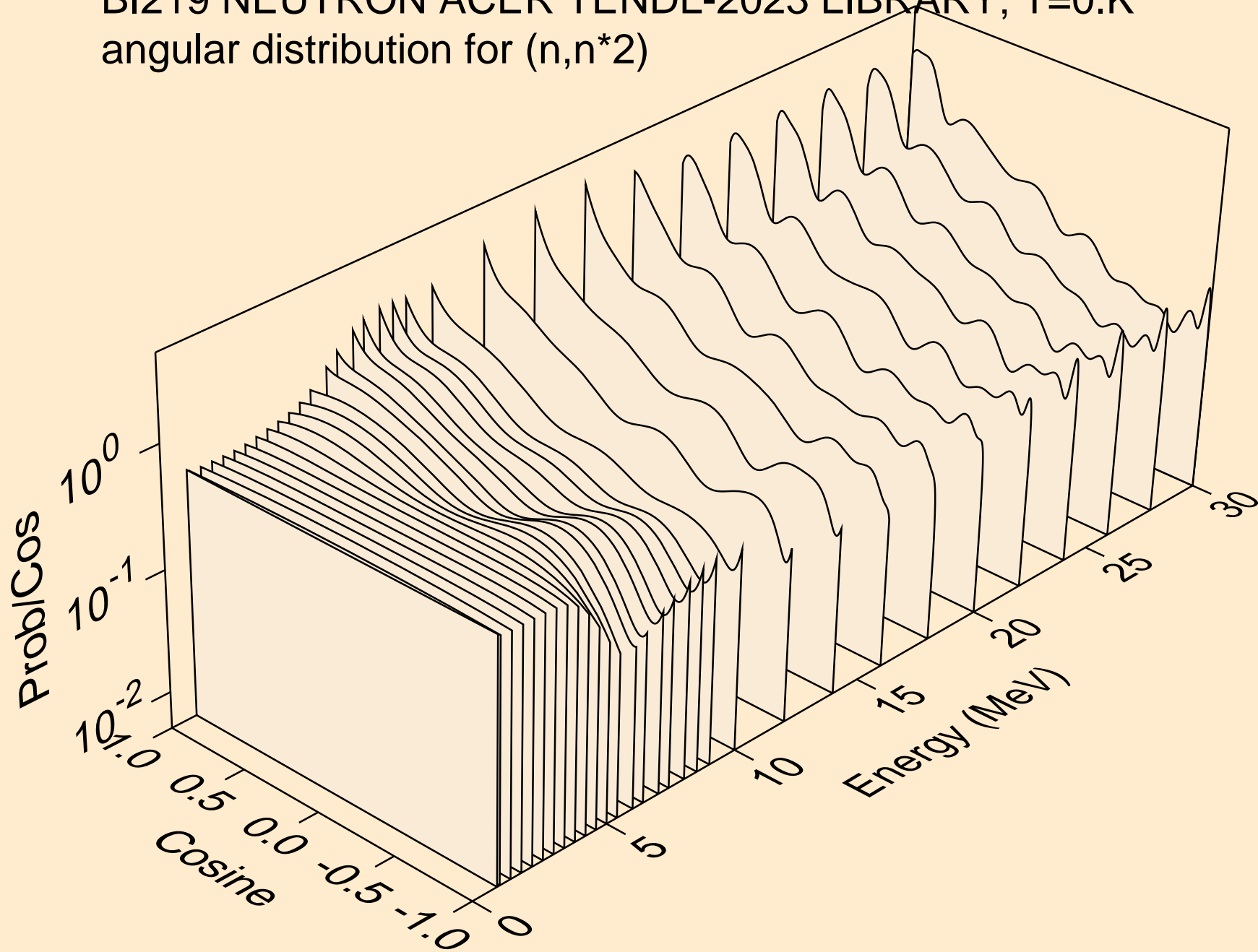
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



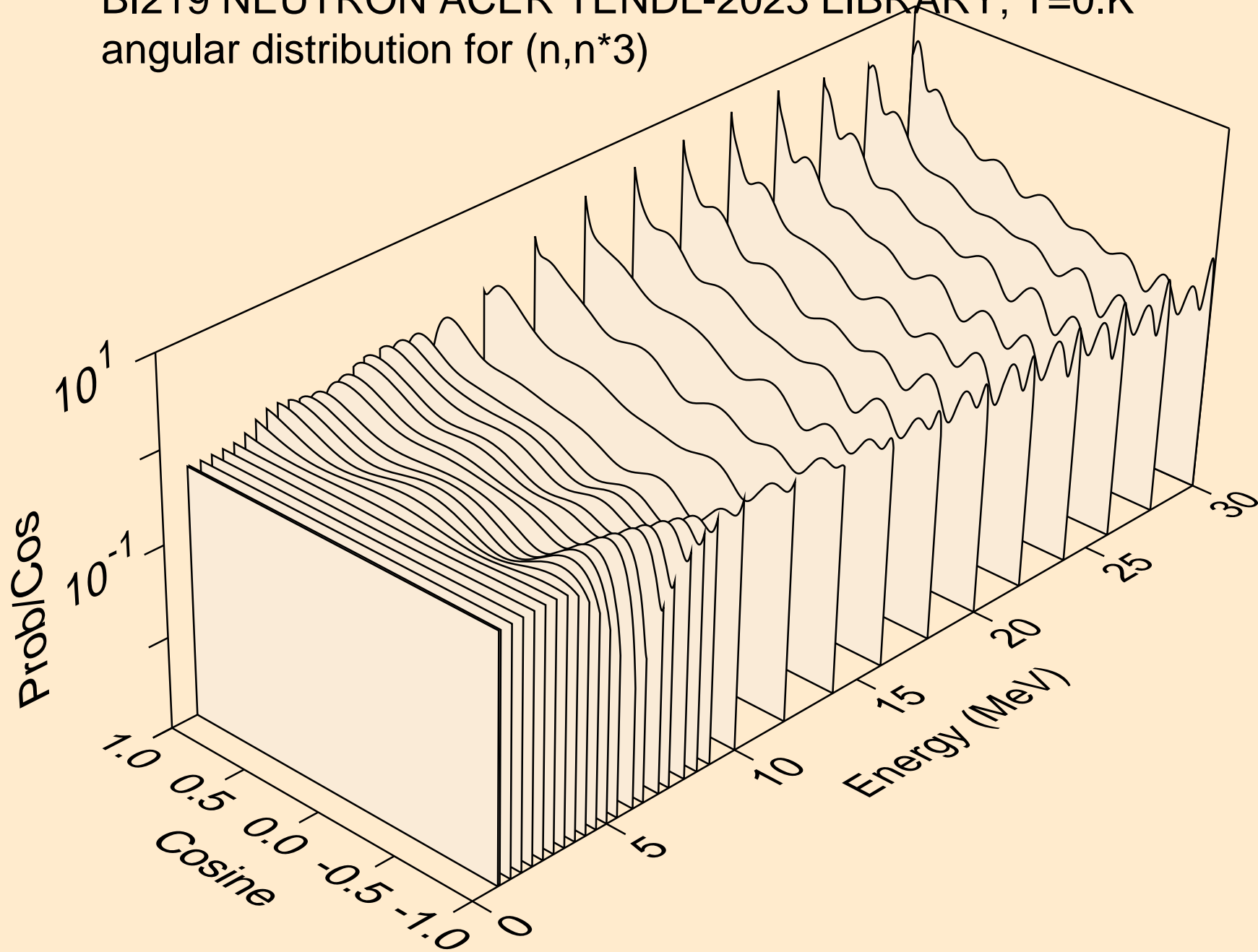
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



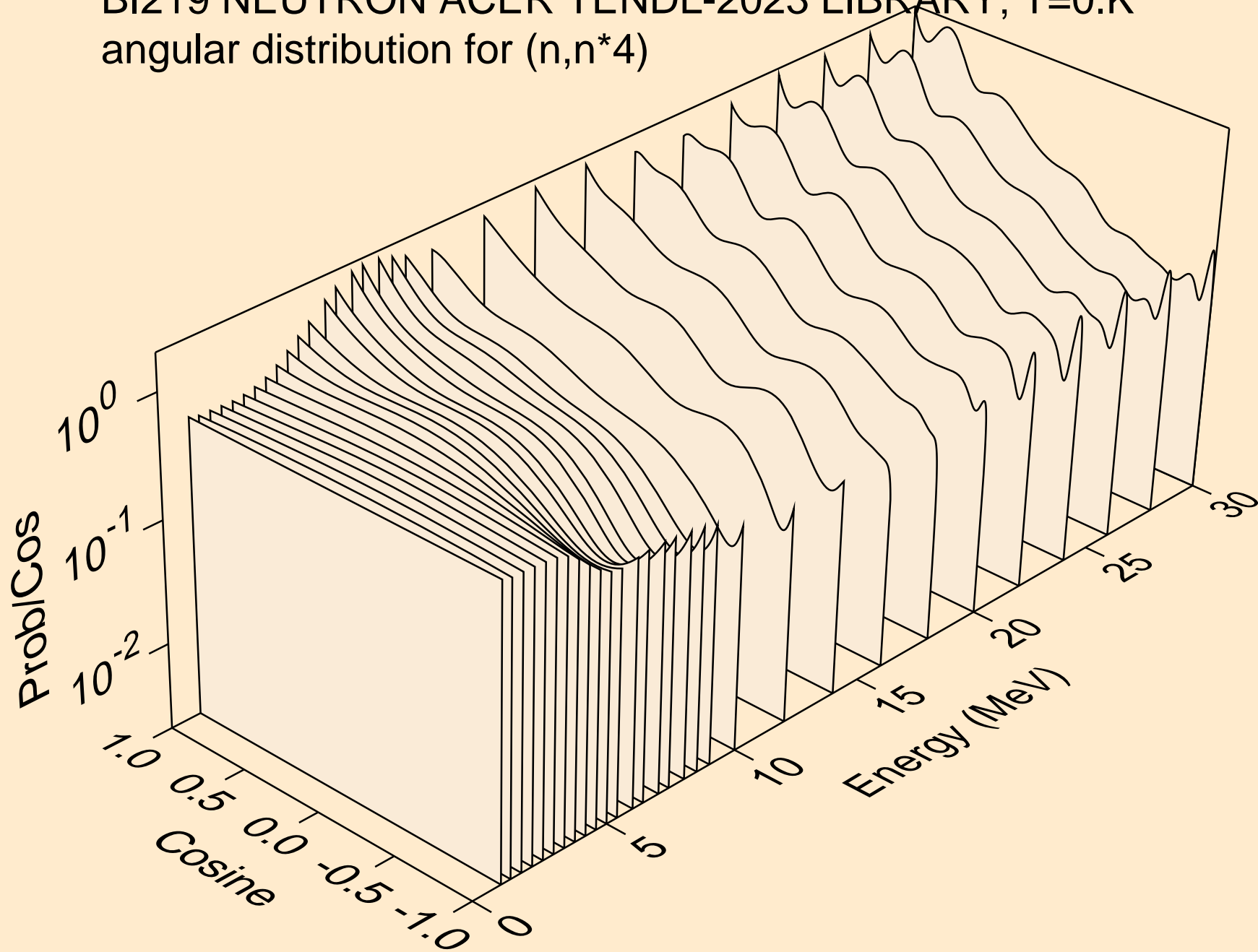
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



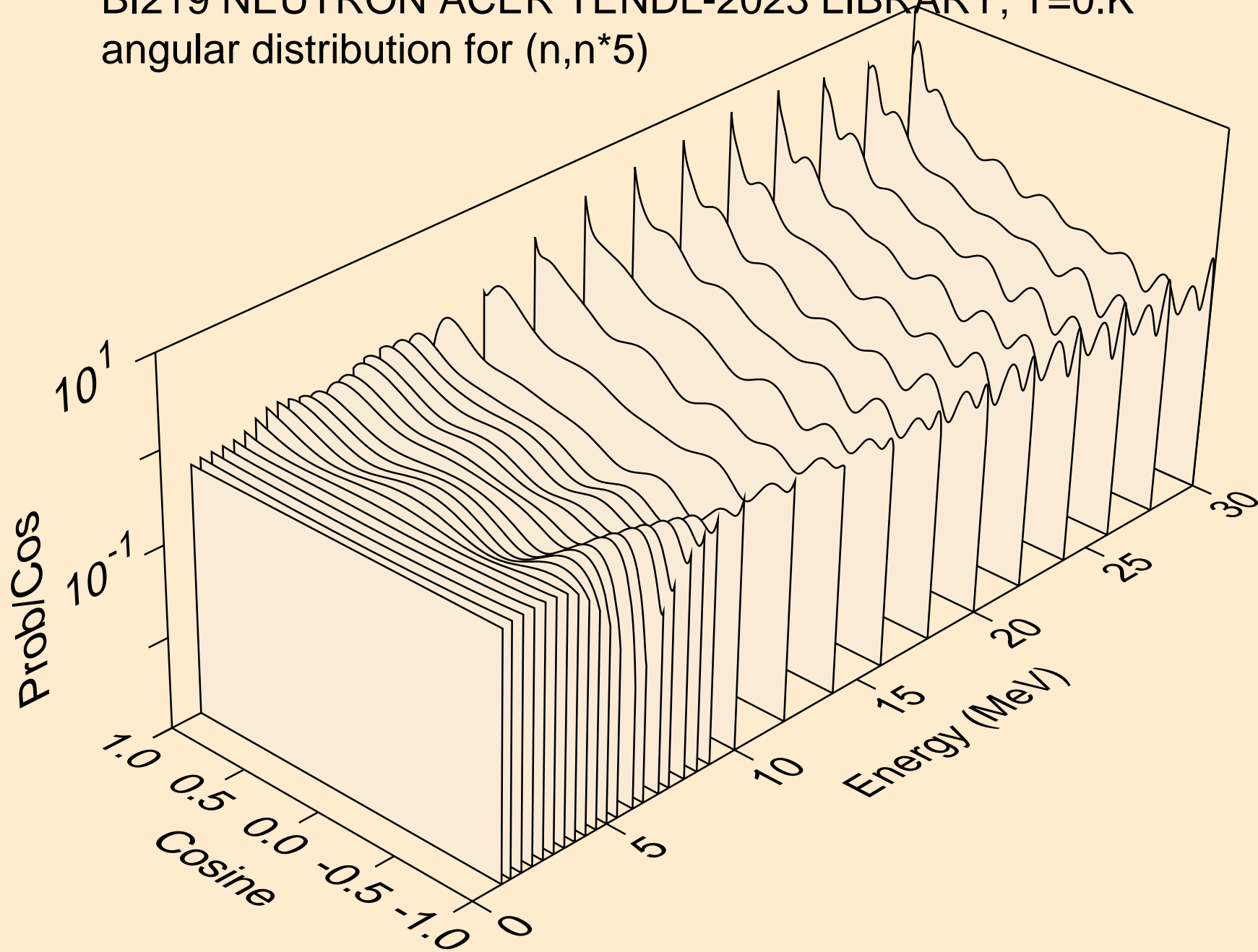
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



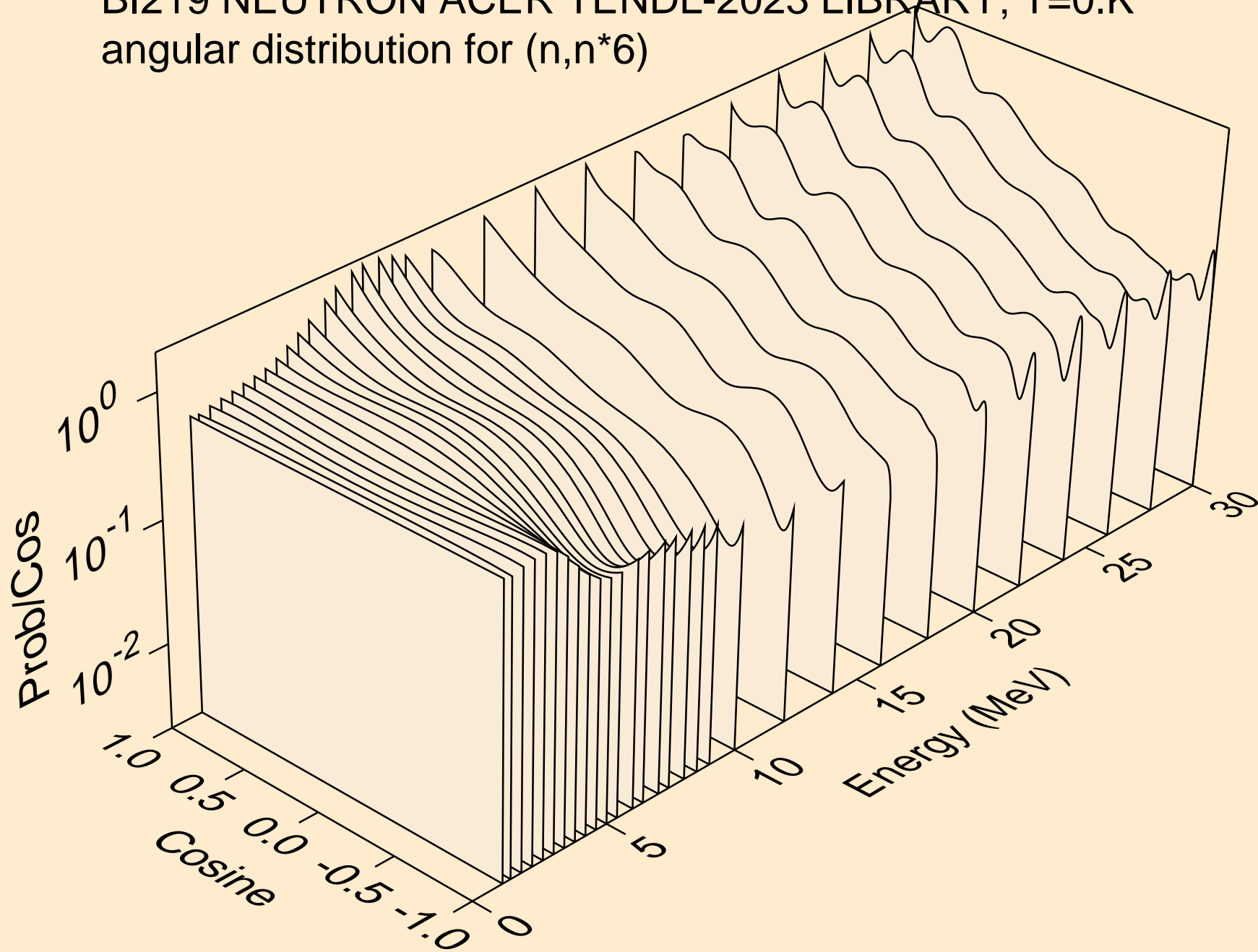
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angular distribution for (n,n\*4)



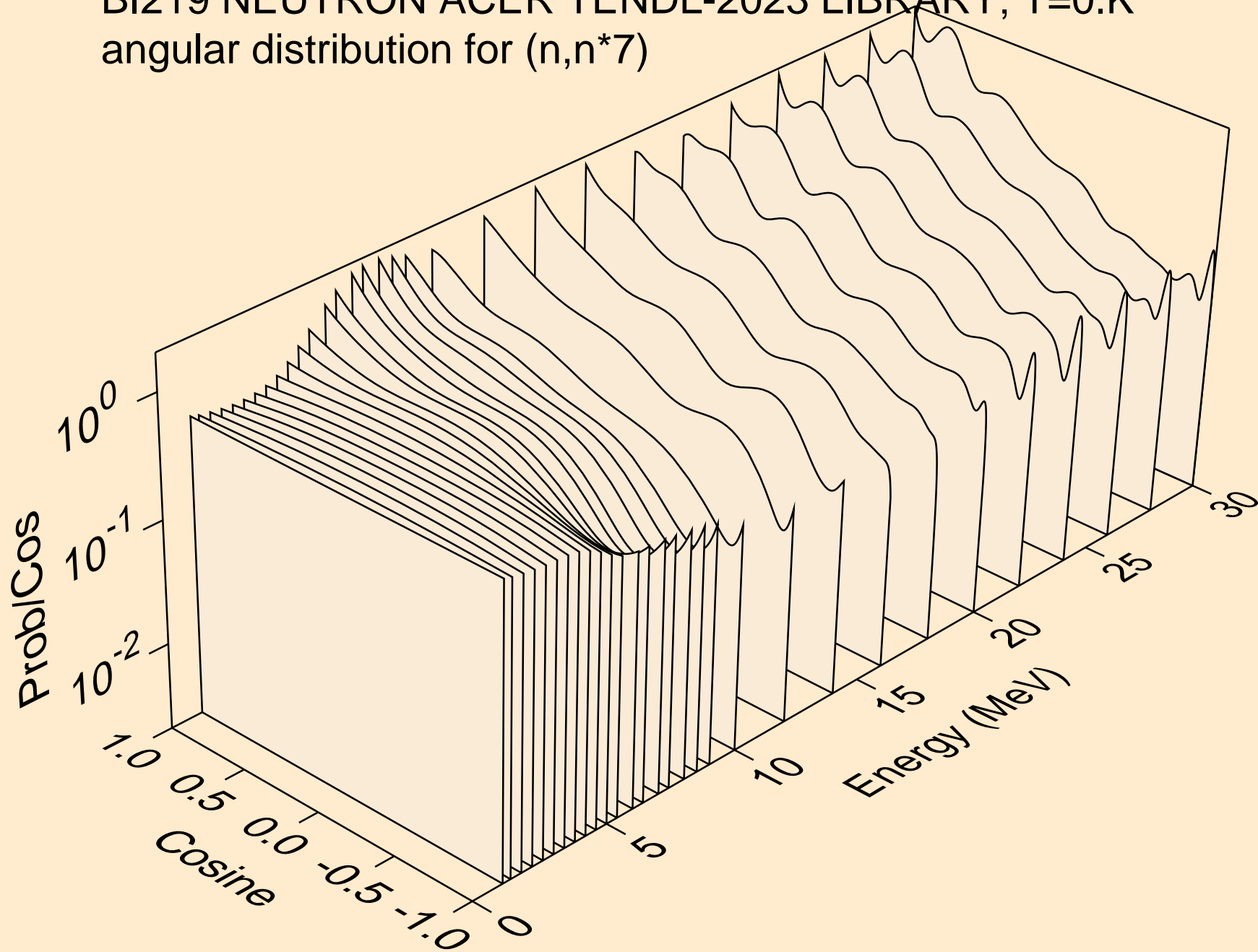
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



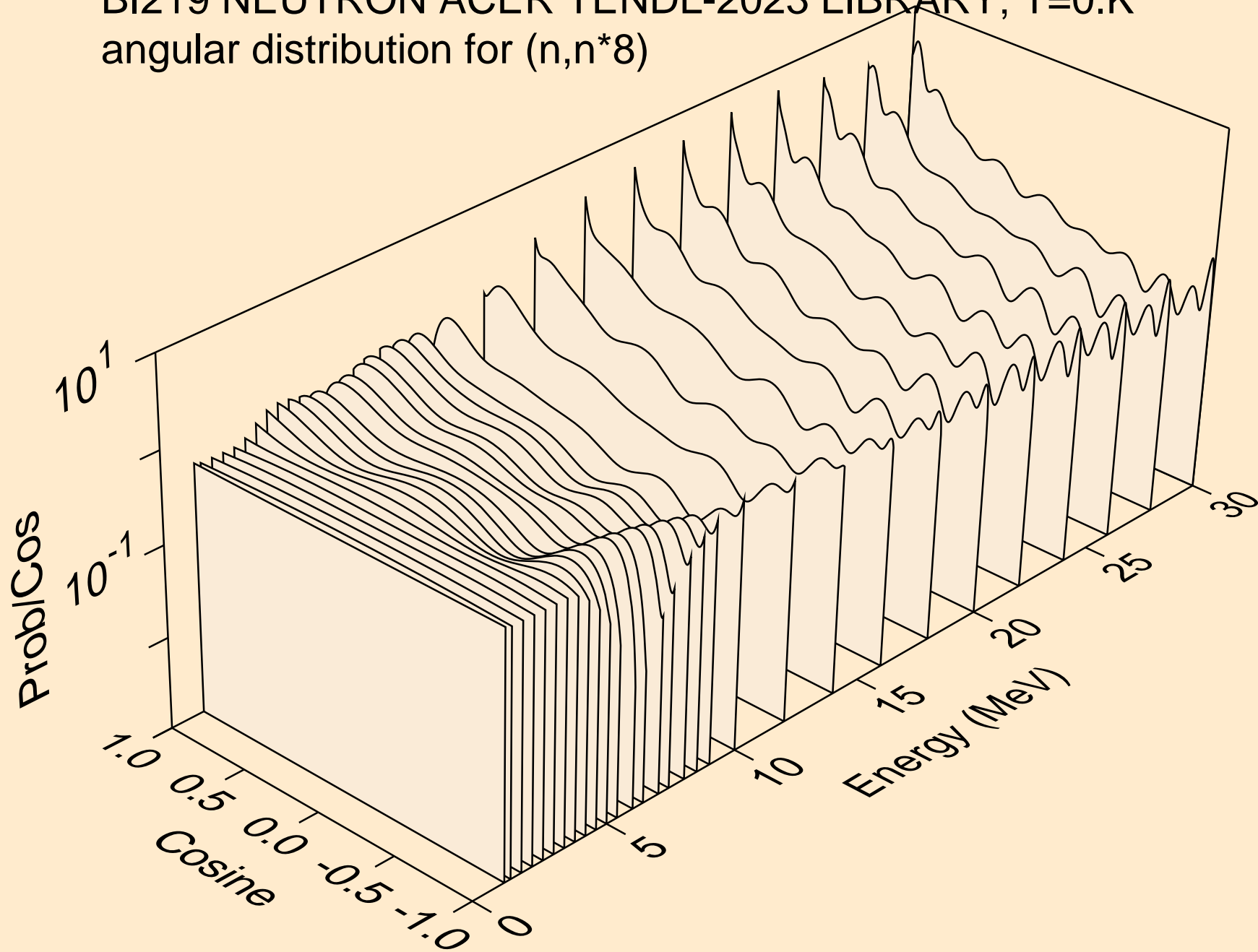
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angular distribution for (n,n\*6)



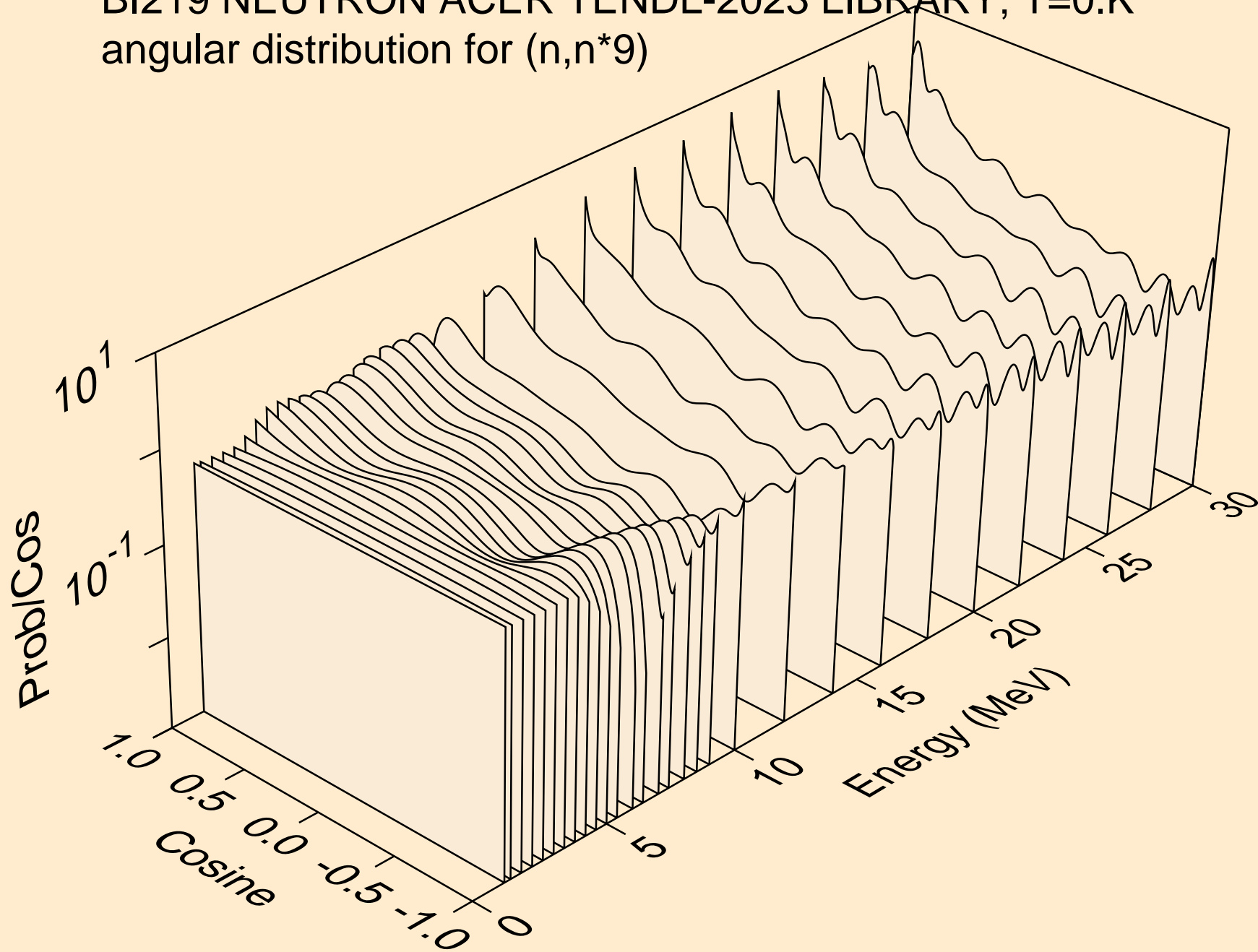
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angular distribution for (n,n\*7)



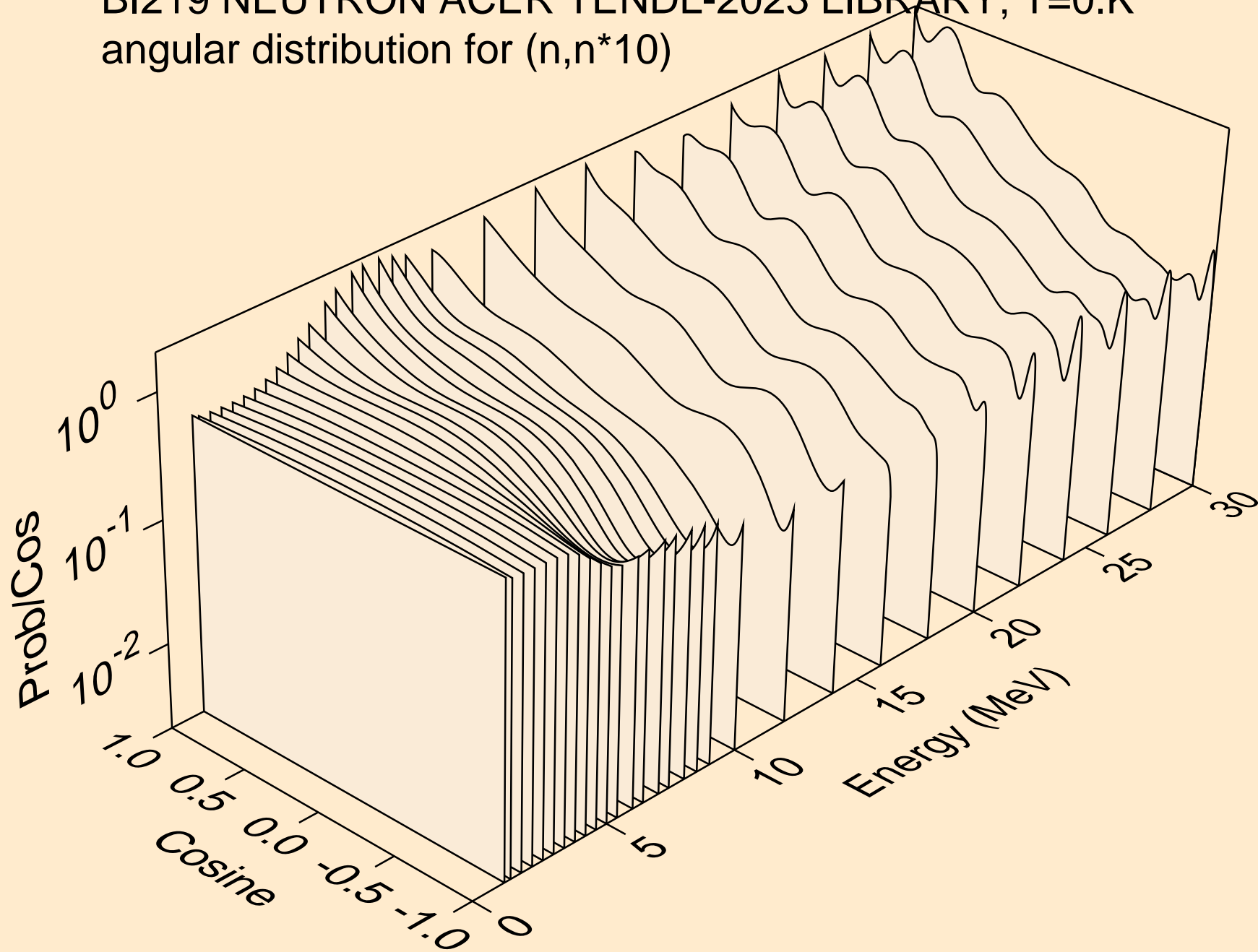
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angular distribution for (n,n\*8)



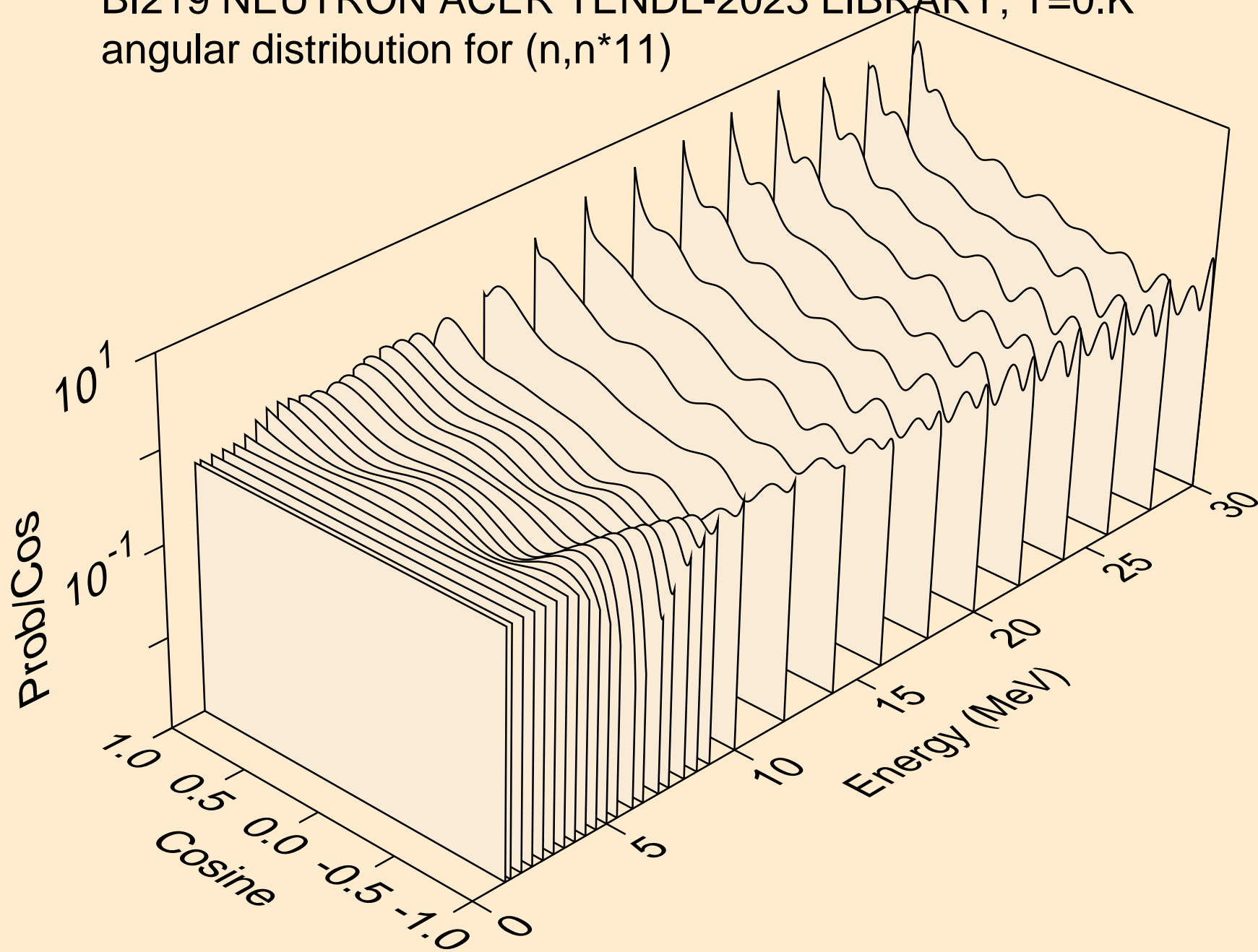
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angular distribution for (n,n\*9)



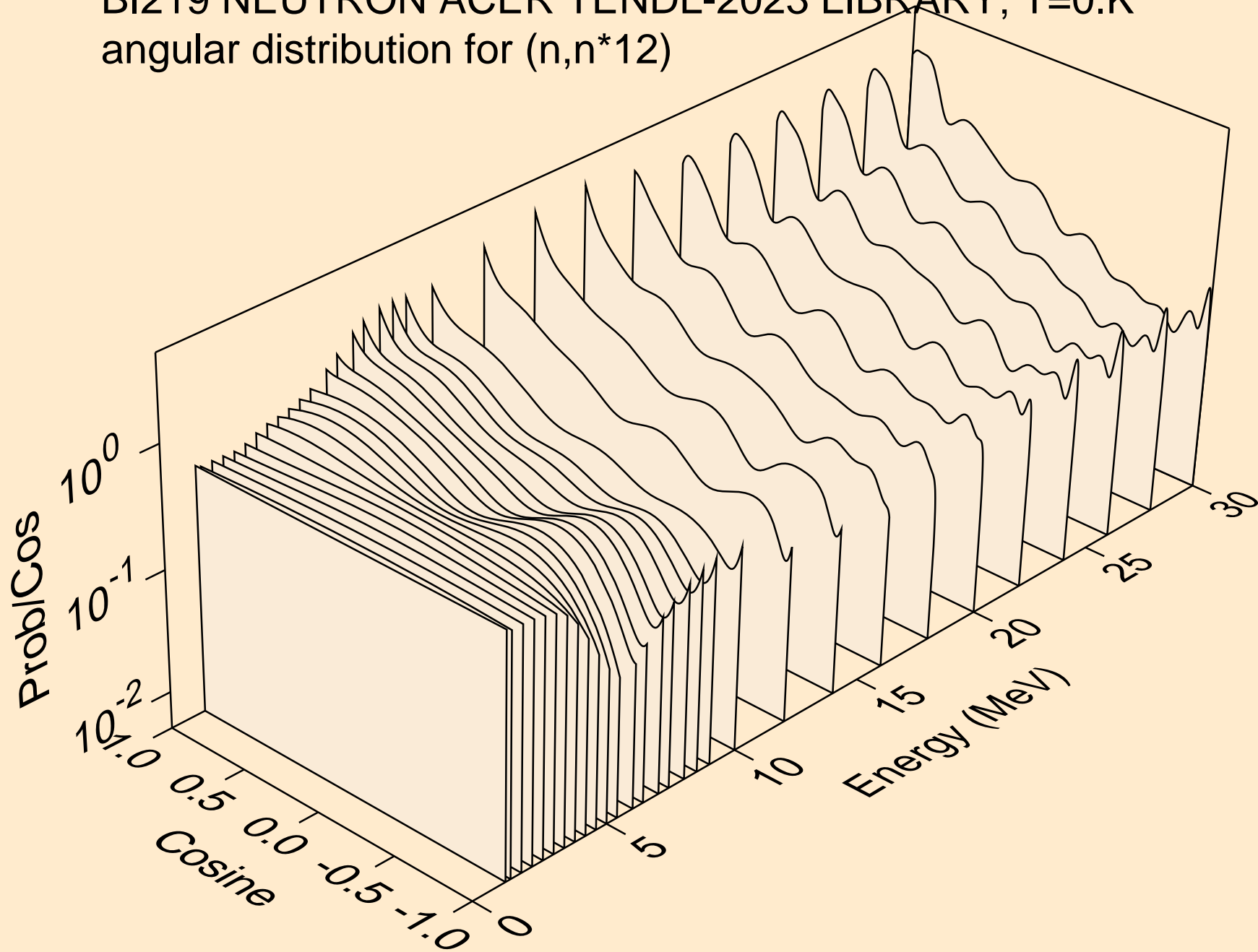
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angular distribution for (n,n\*10)



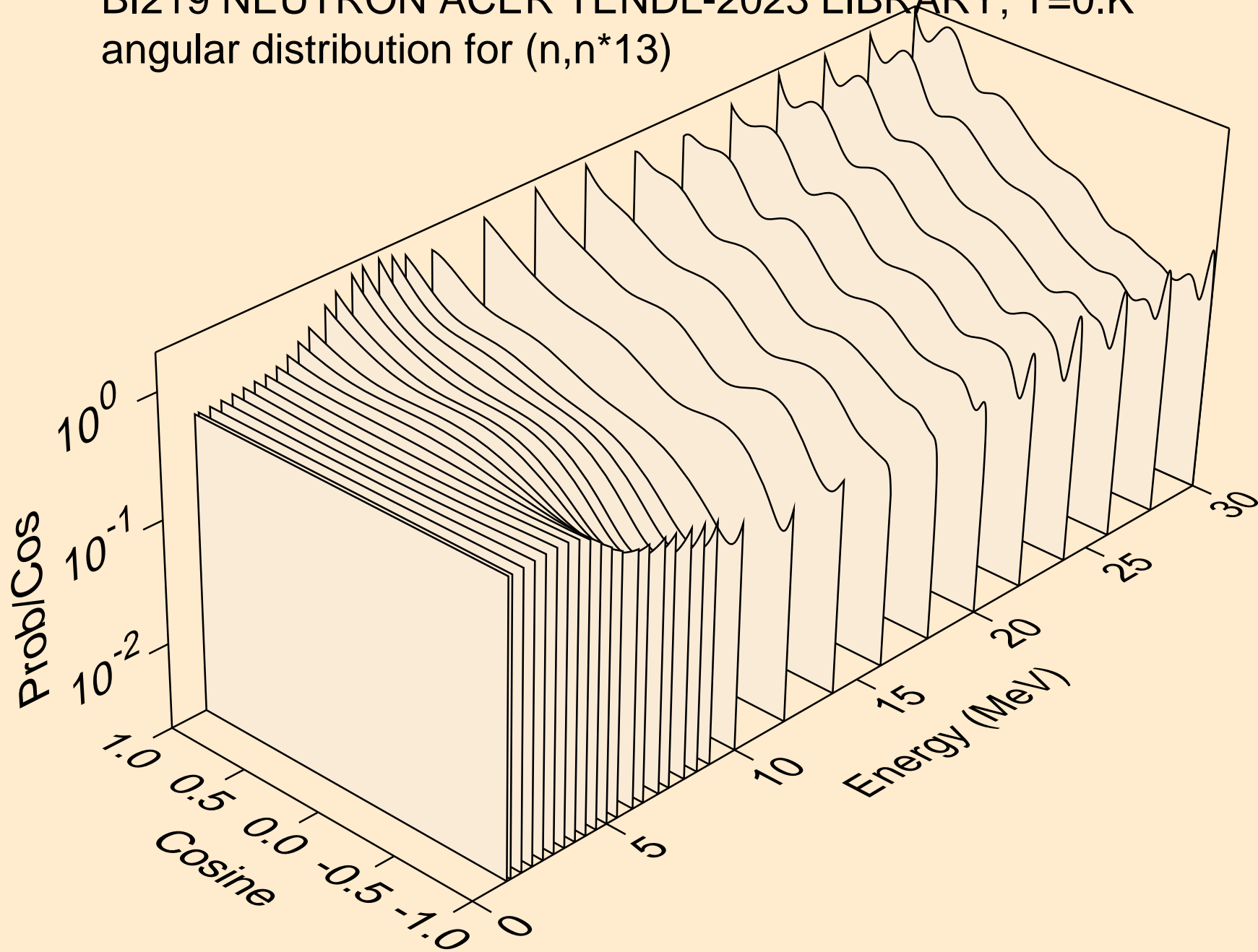
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angular distribution for (n,n\*11)



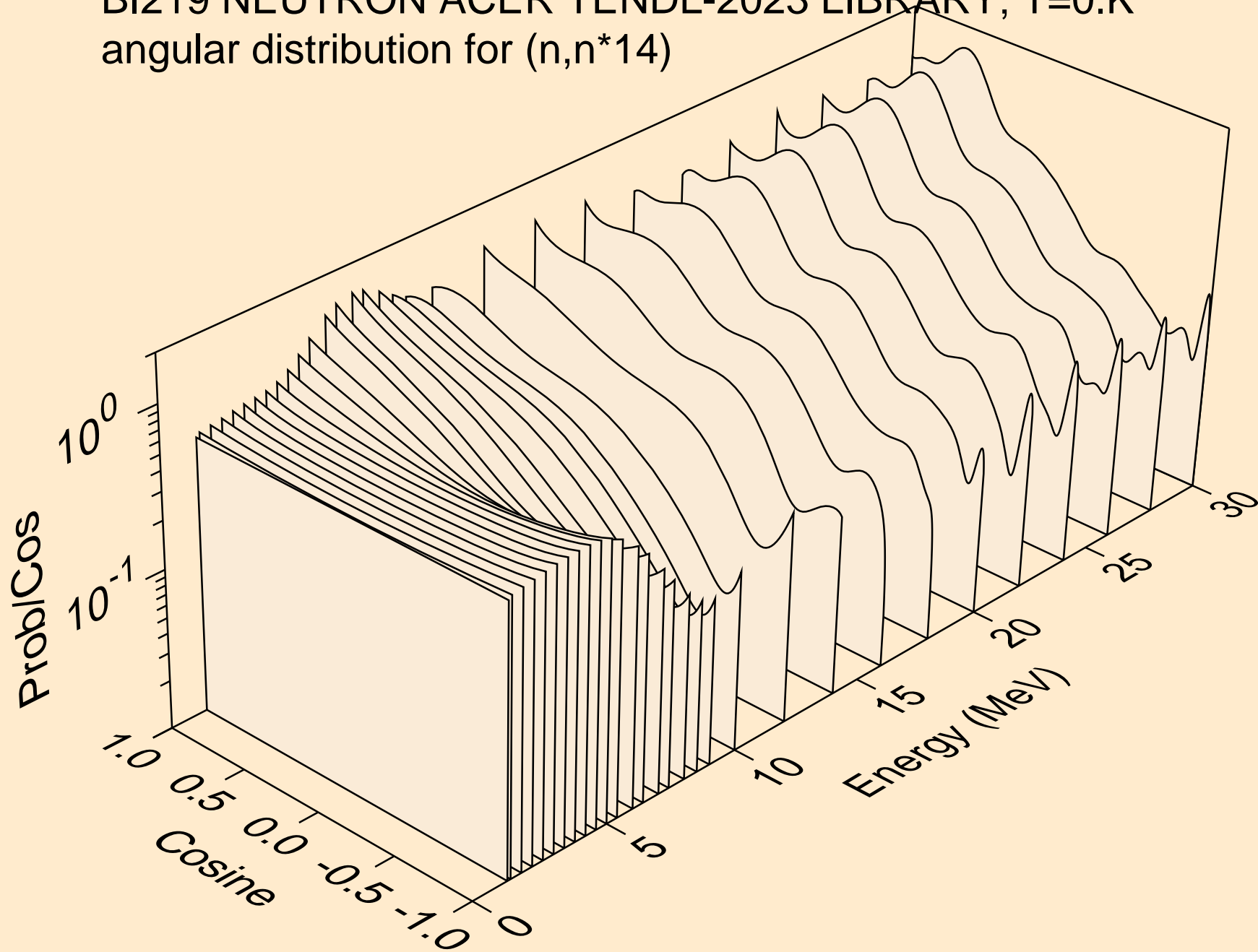
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angular distribution for (n,n\*12)



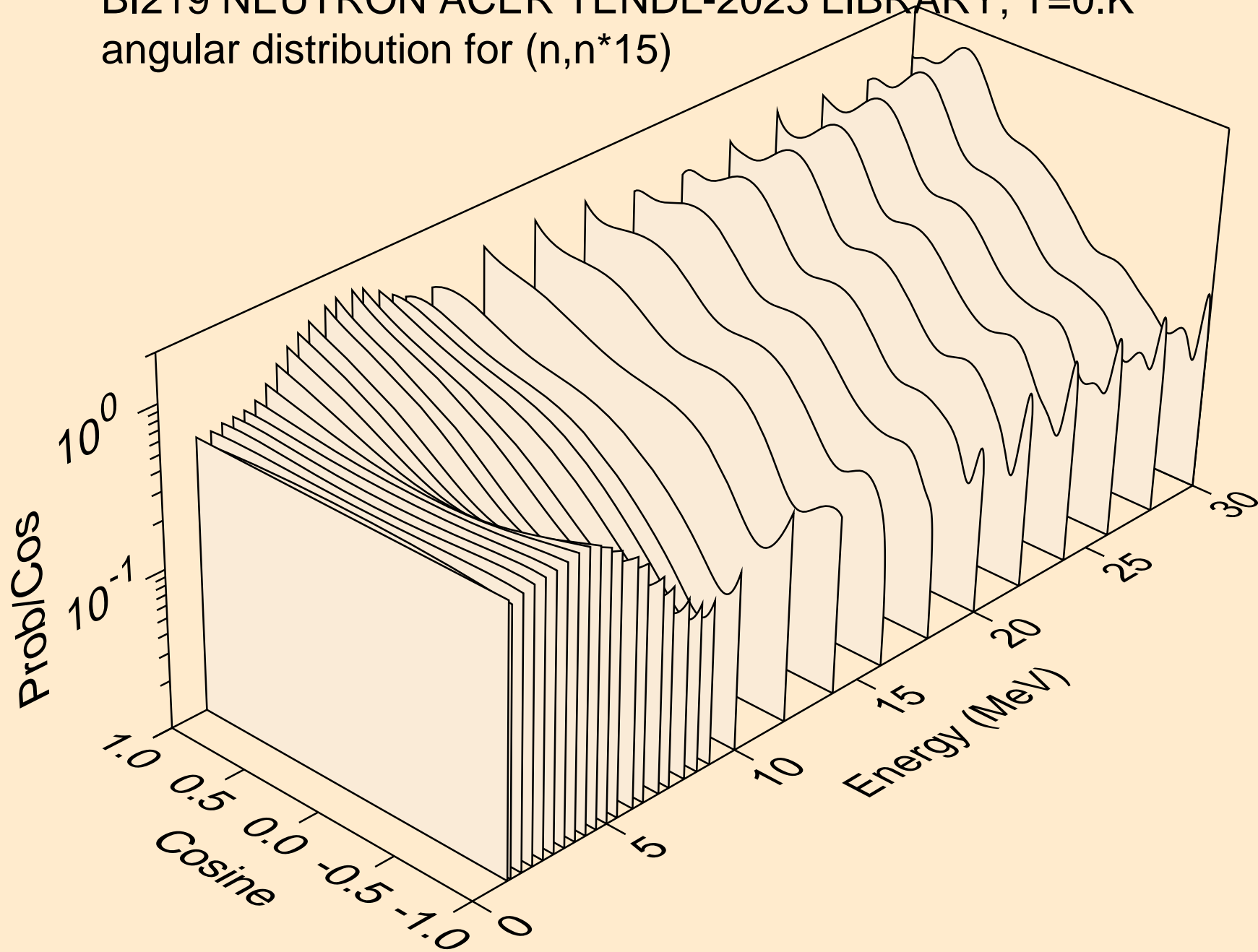
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angular distribution for (n,n\*13)



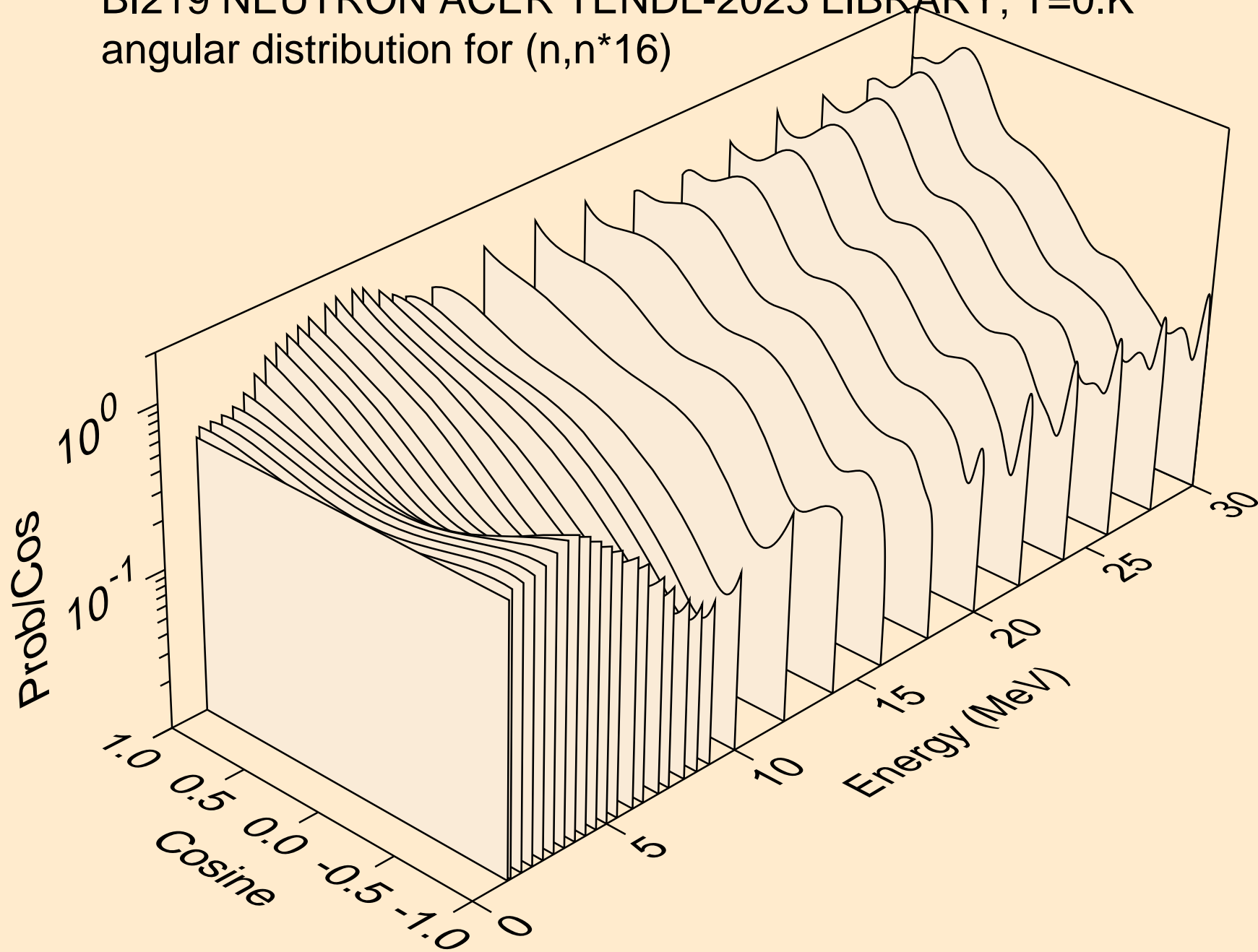
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angular distribution for (n,n\*14)



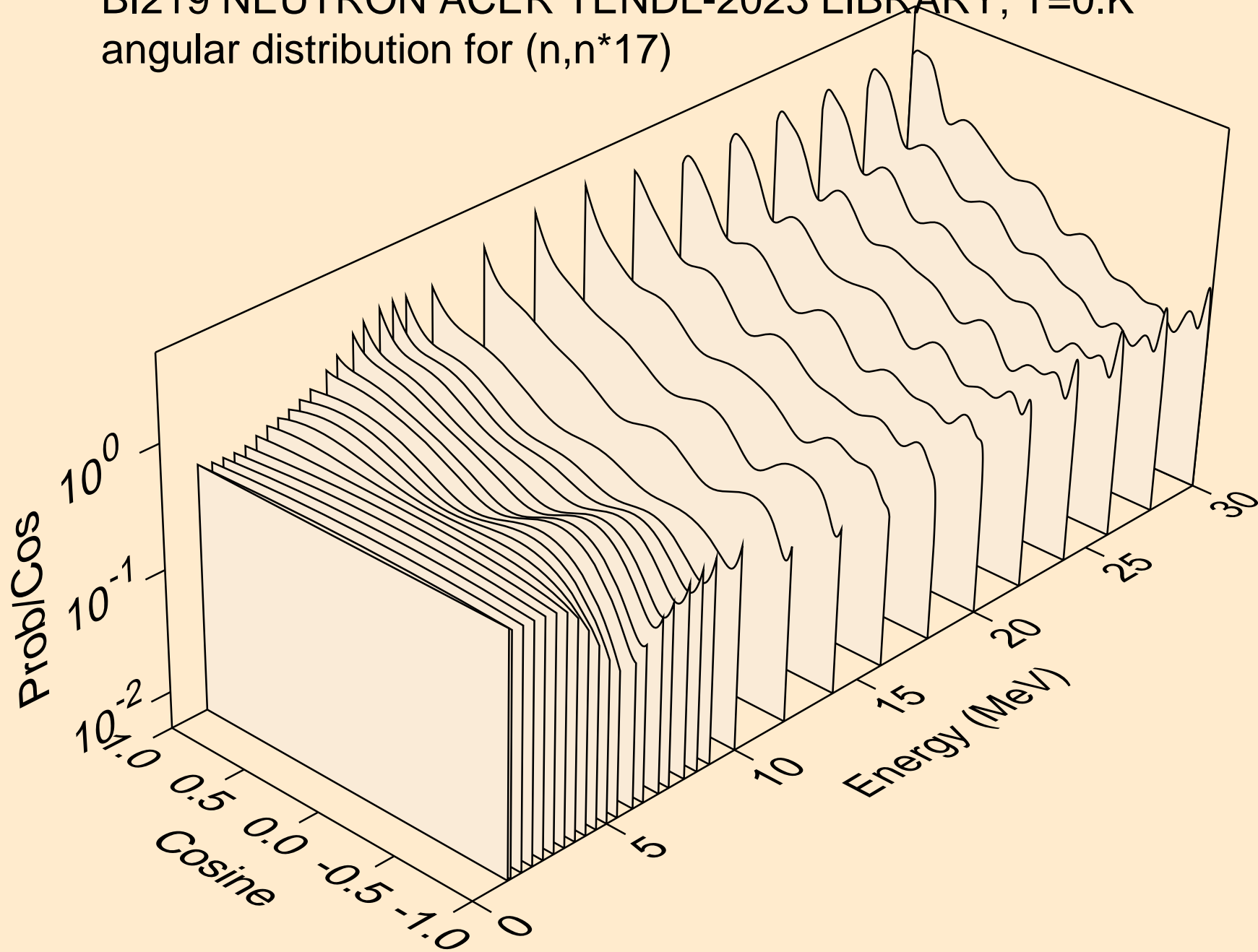
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angular distribution for (n,n\*15)



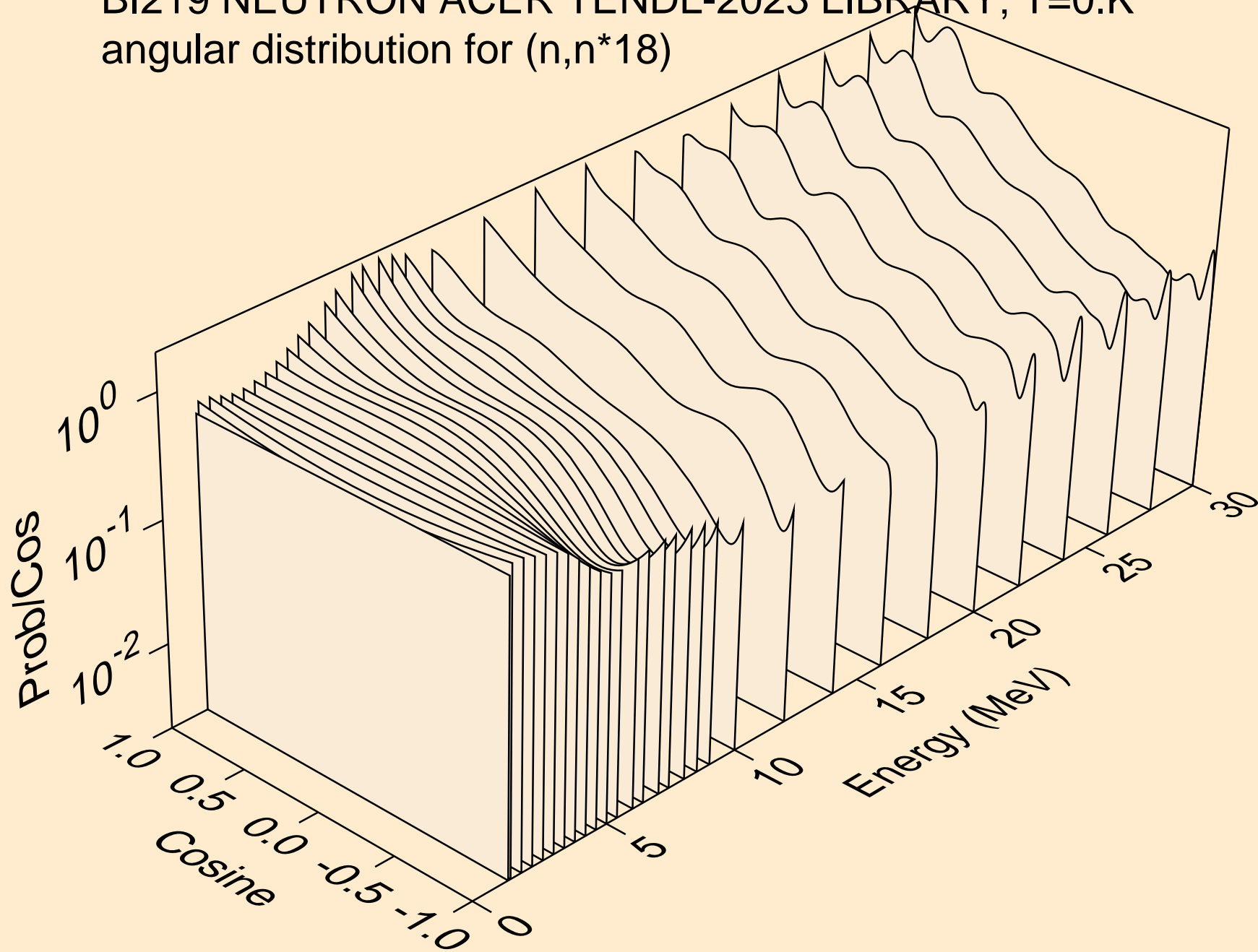
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angular distribution for (n,n\*16)



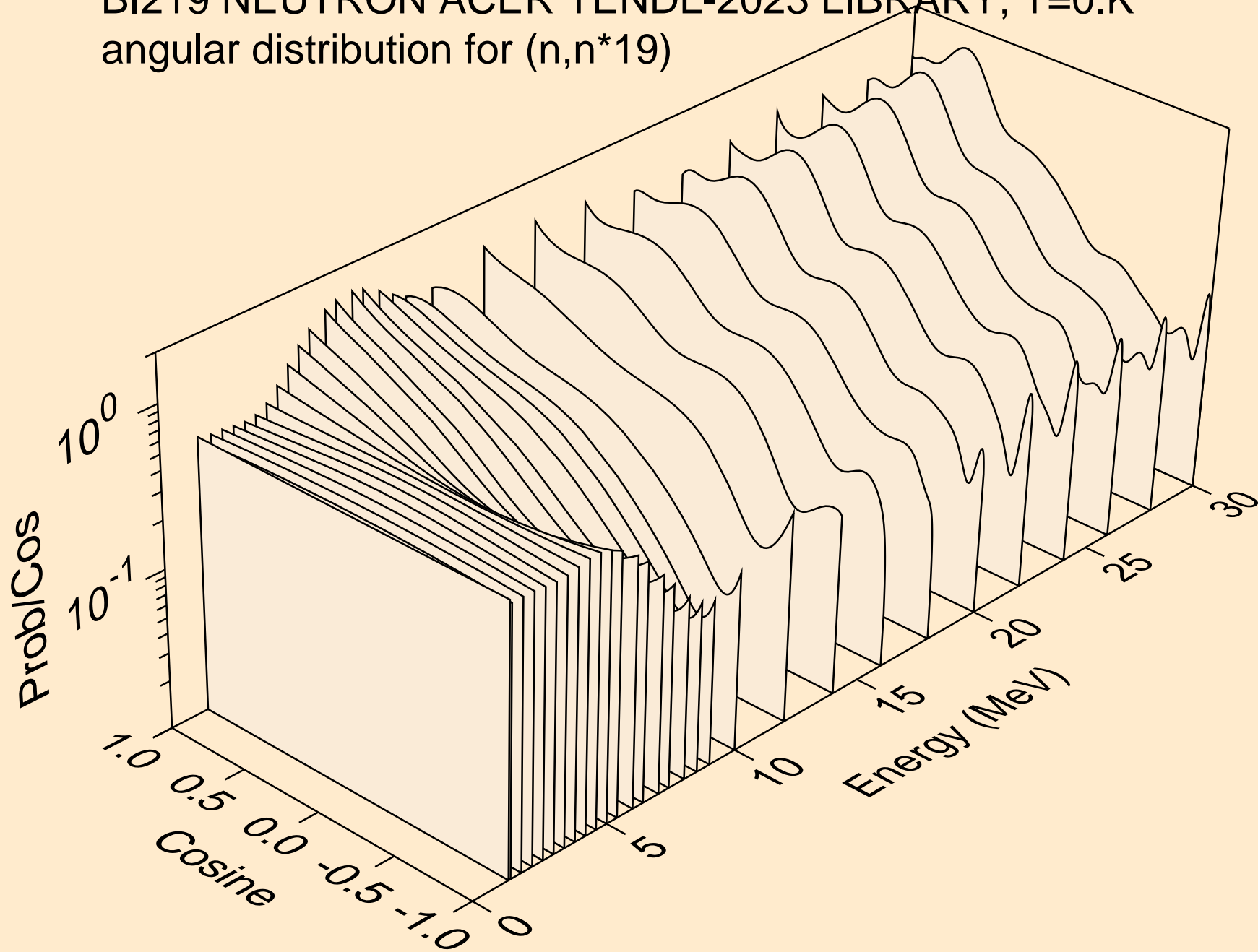
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angular distribution for (n,n\*17)



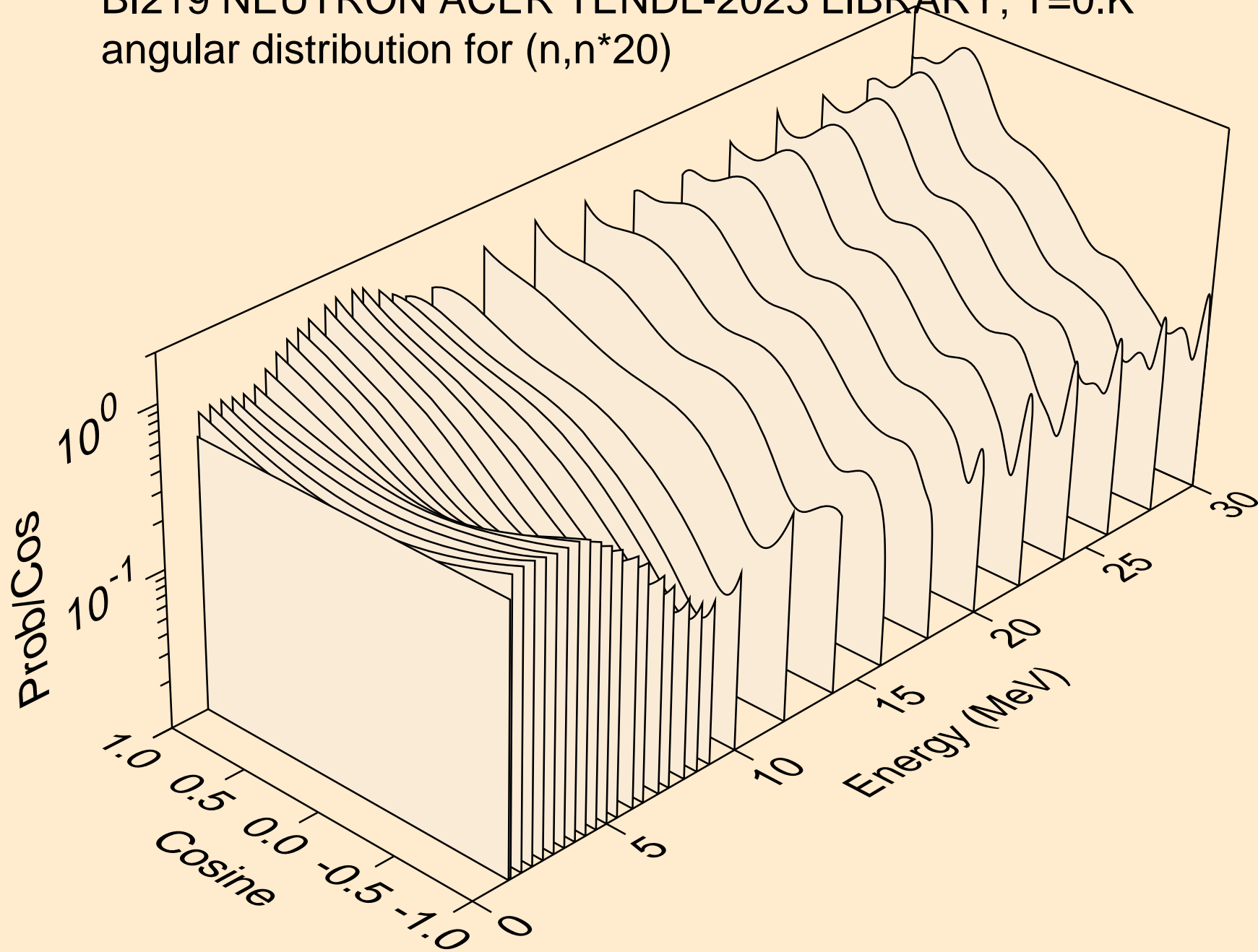
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)



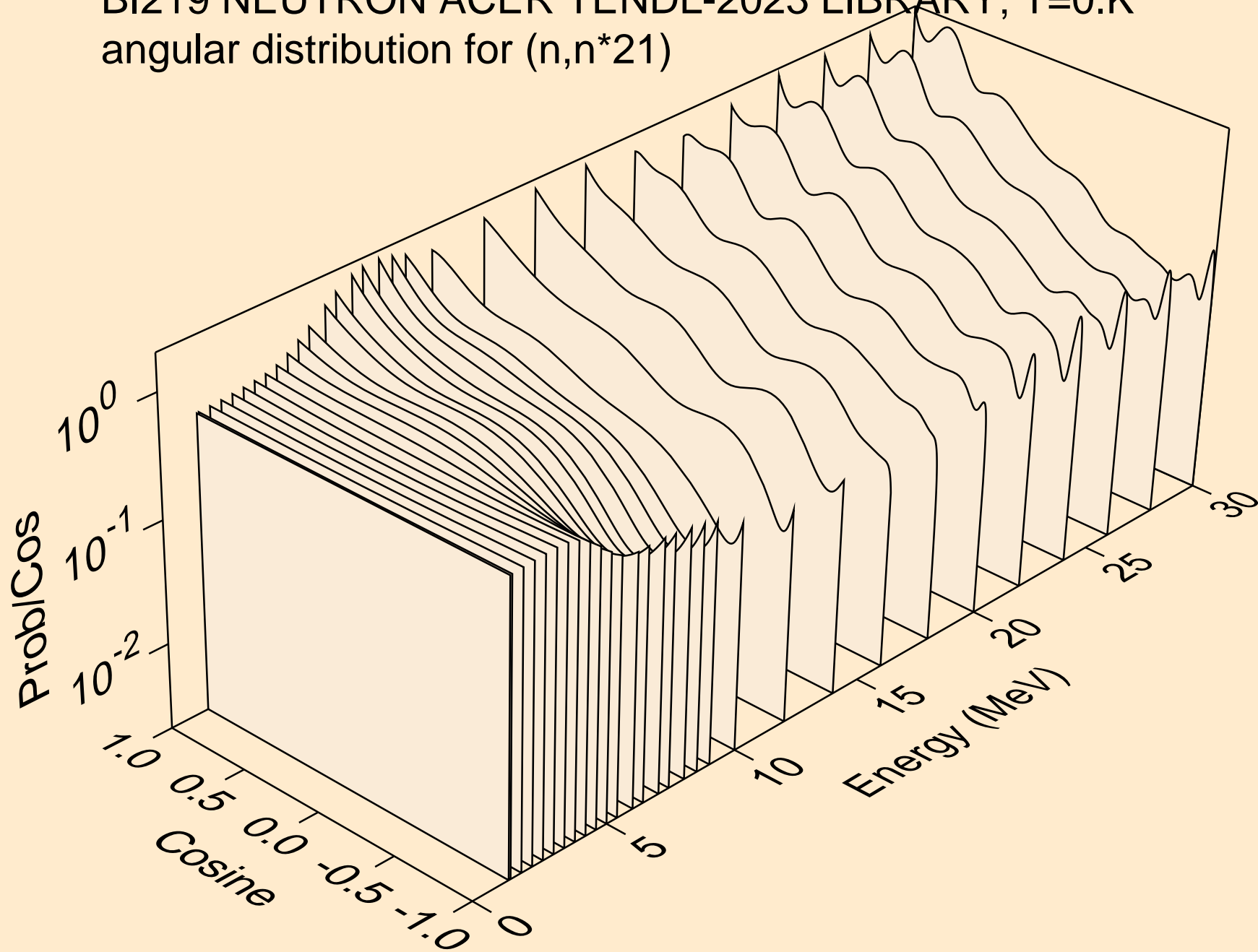
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angular distribution for (n,n\*19)



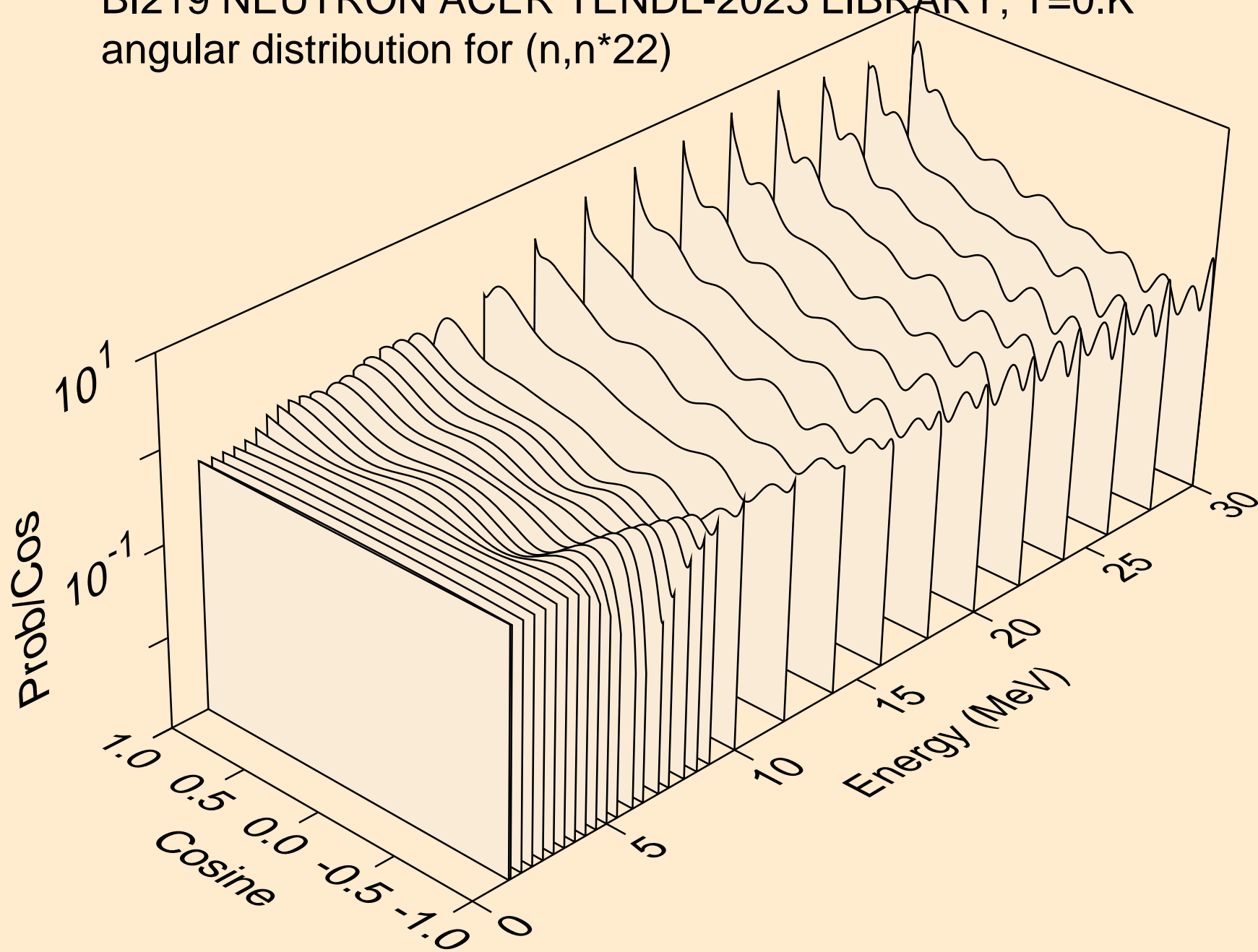
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angular distribution for (n,n\*20)



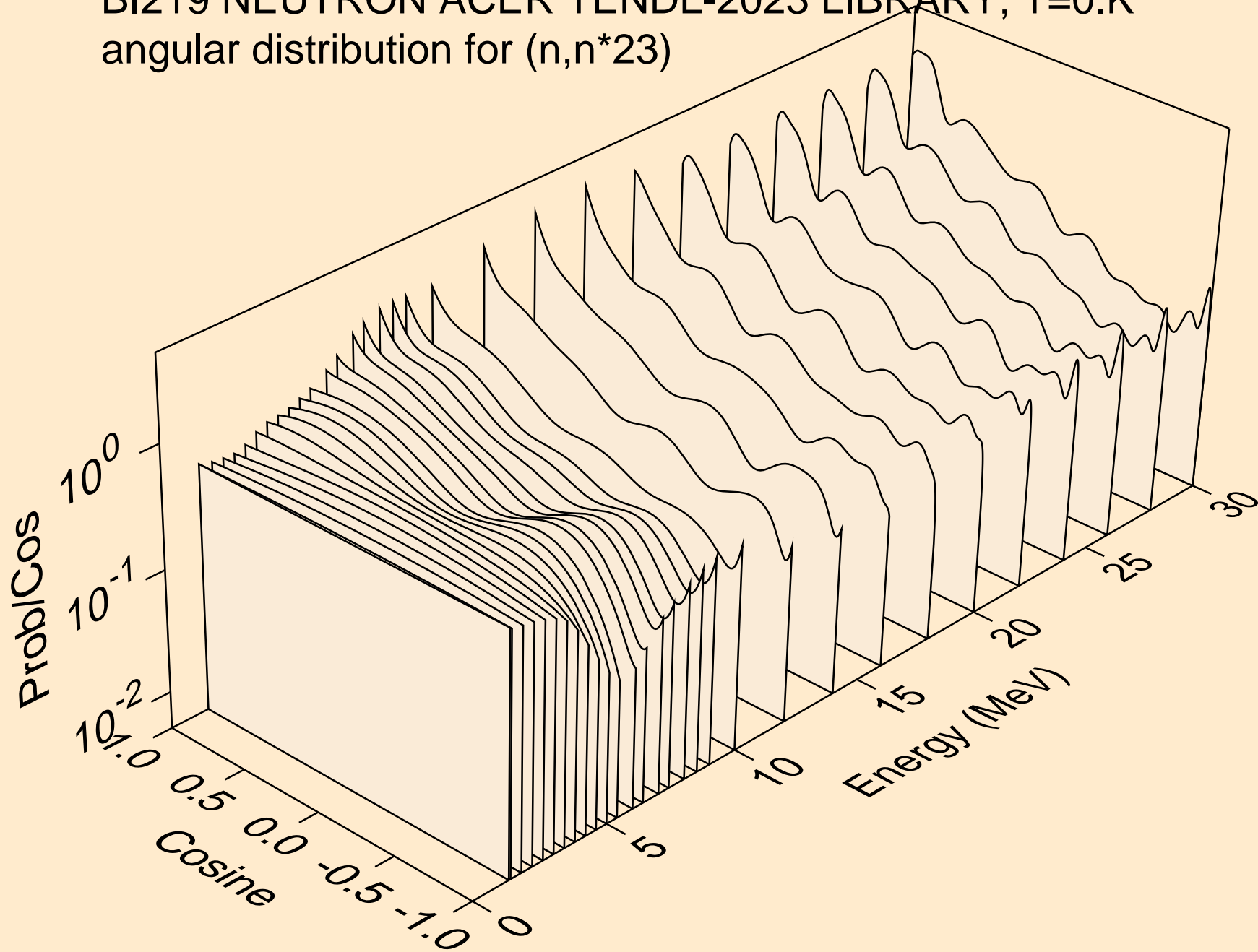
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angular distribution for (n,n\*21)



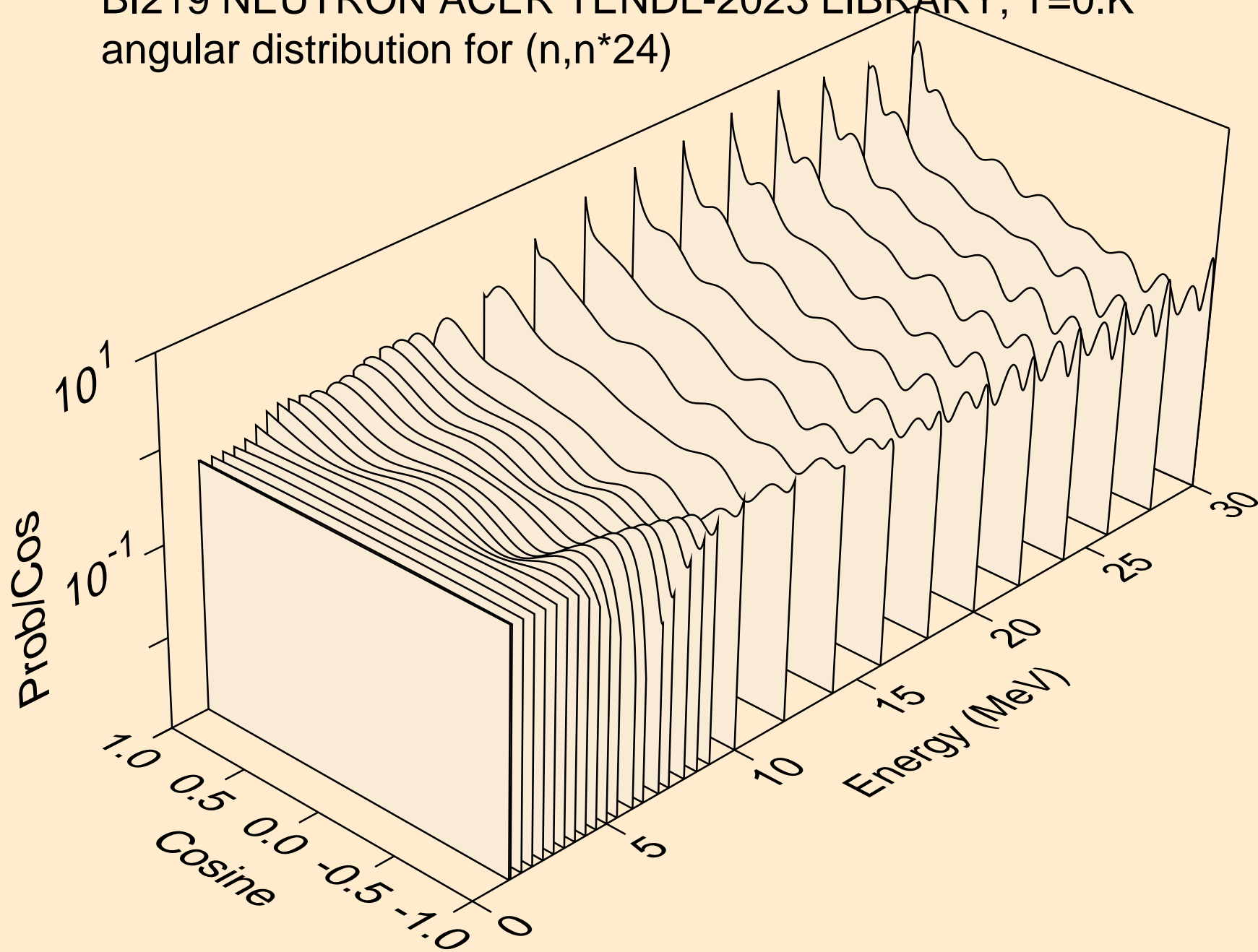
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angular distribution for (n,n\*22)



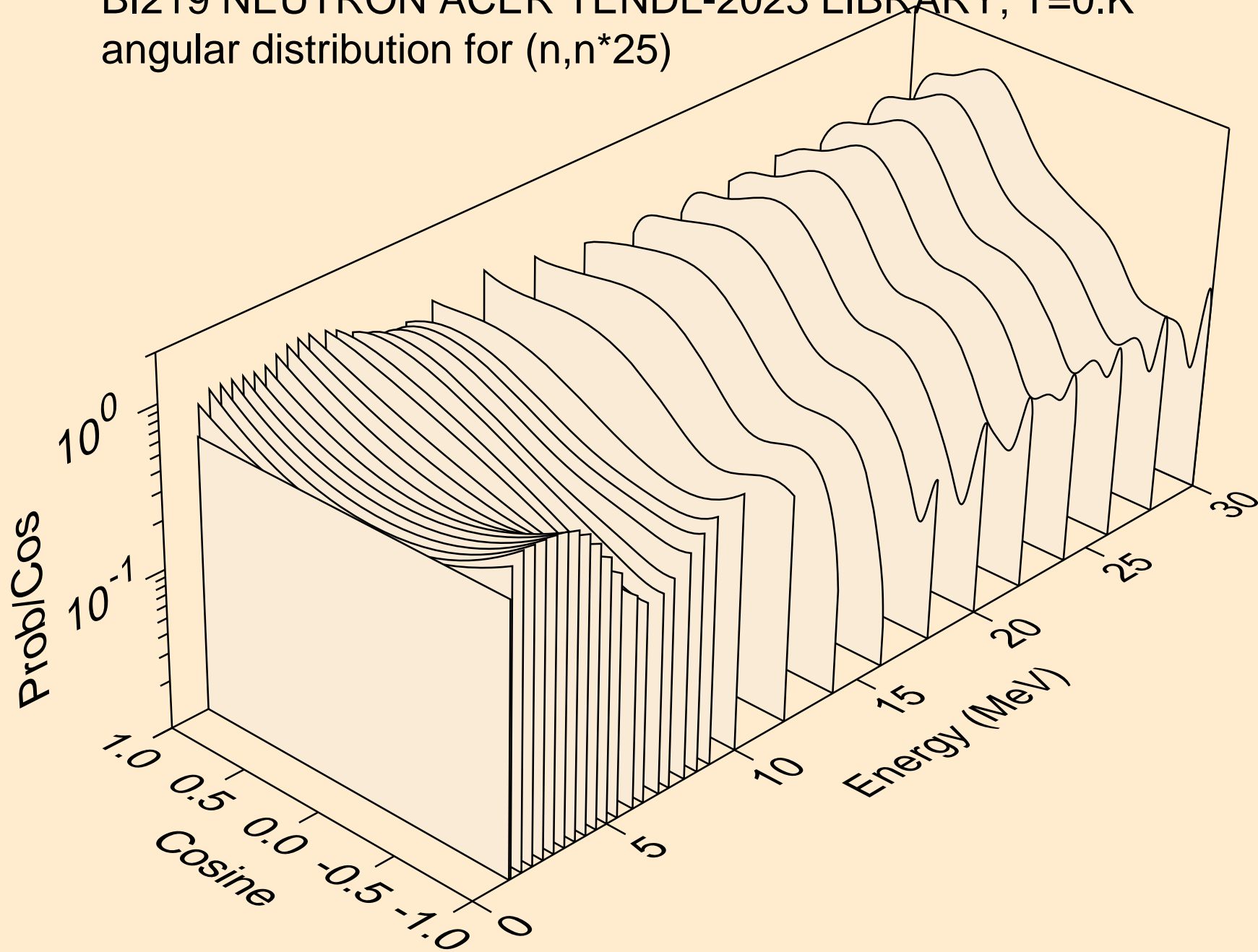
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angular distribution for (n,n\*23)



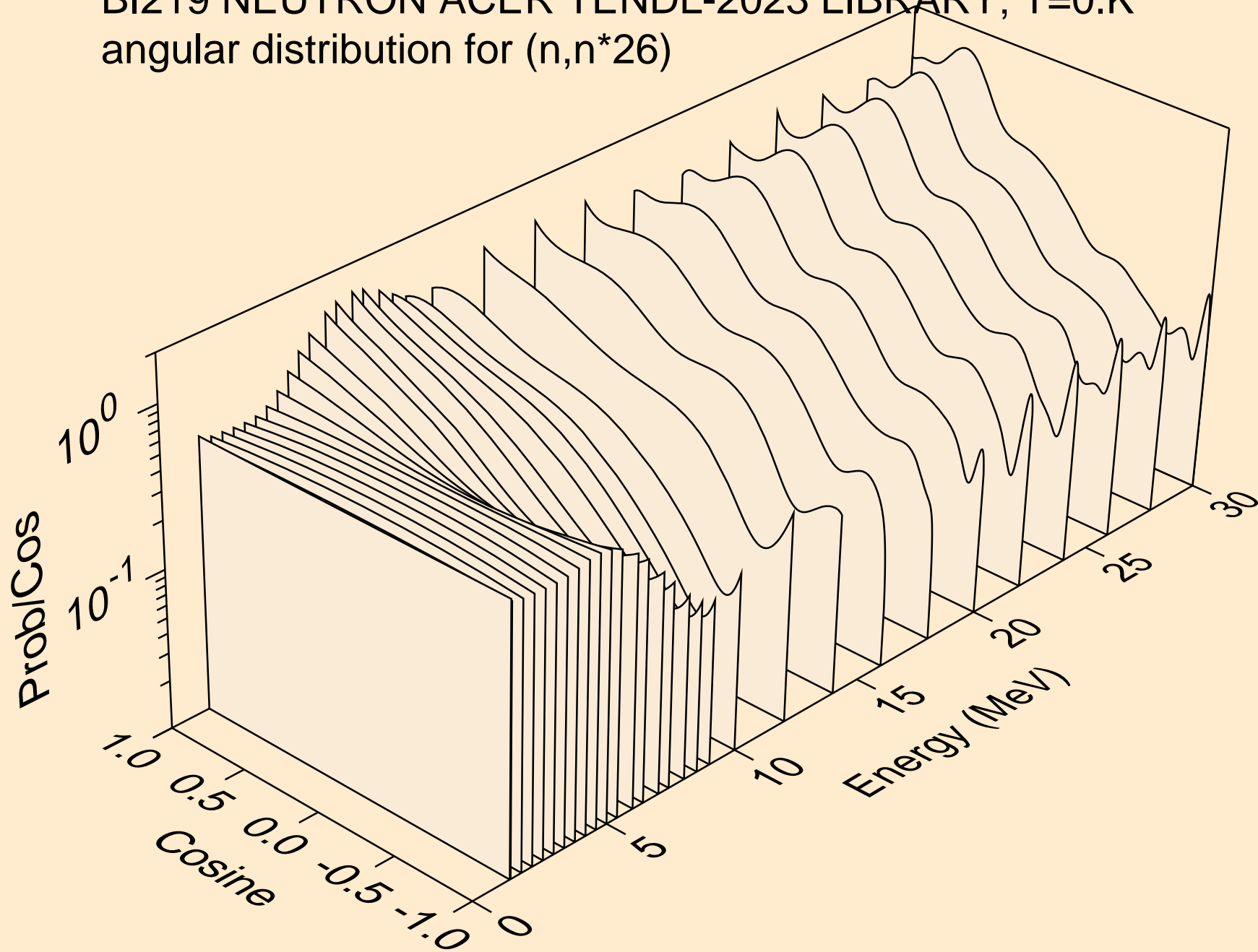
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angular distribution for (n,n\*24)



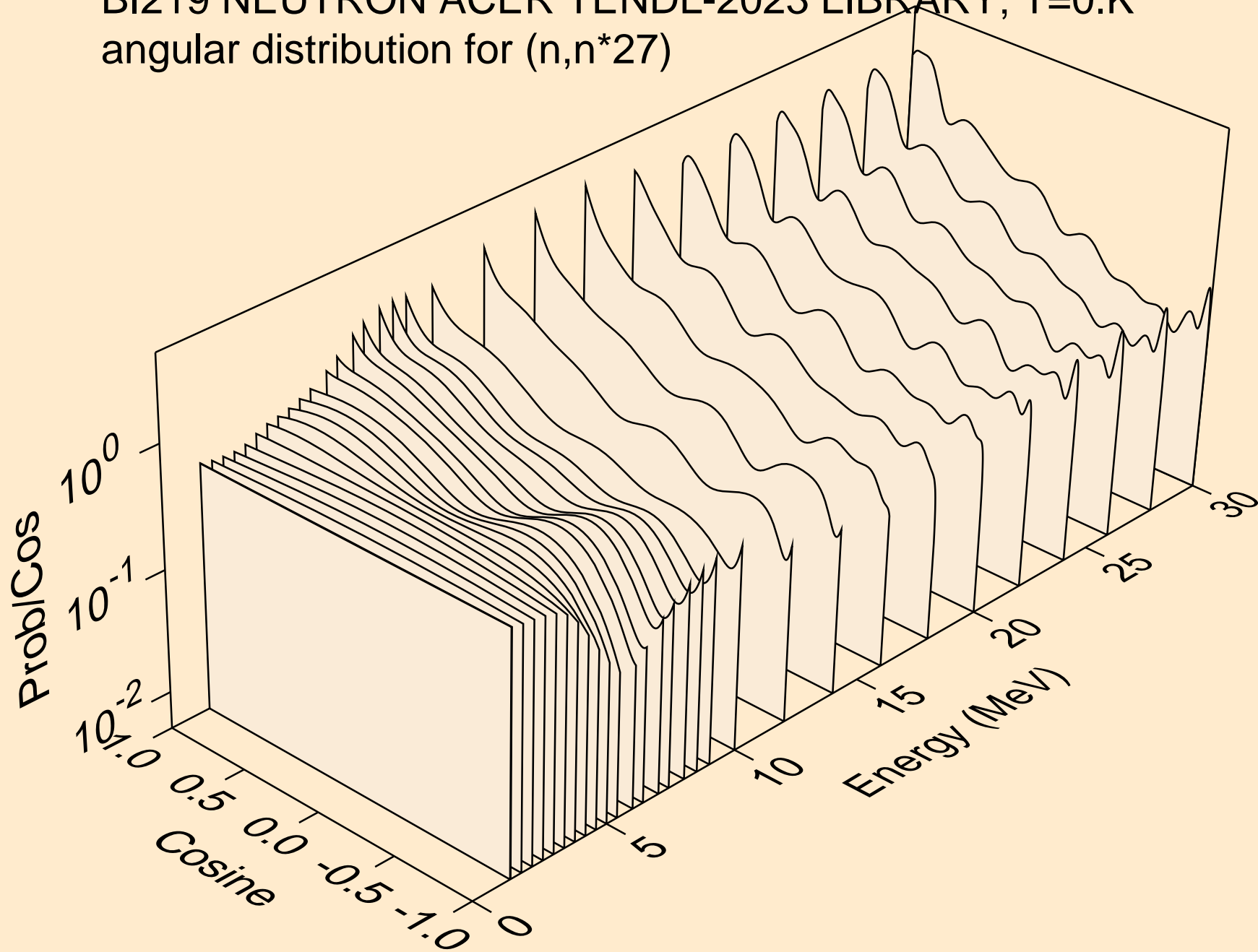
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angular distribution for (n,n\*25)



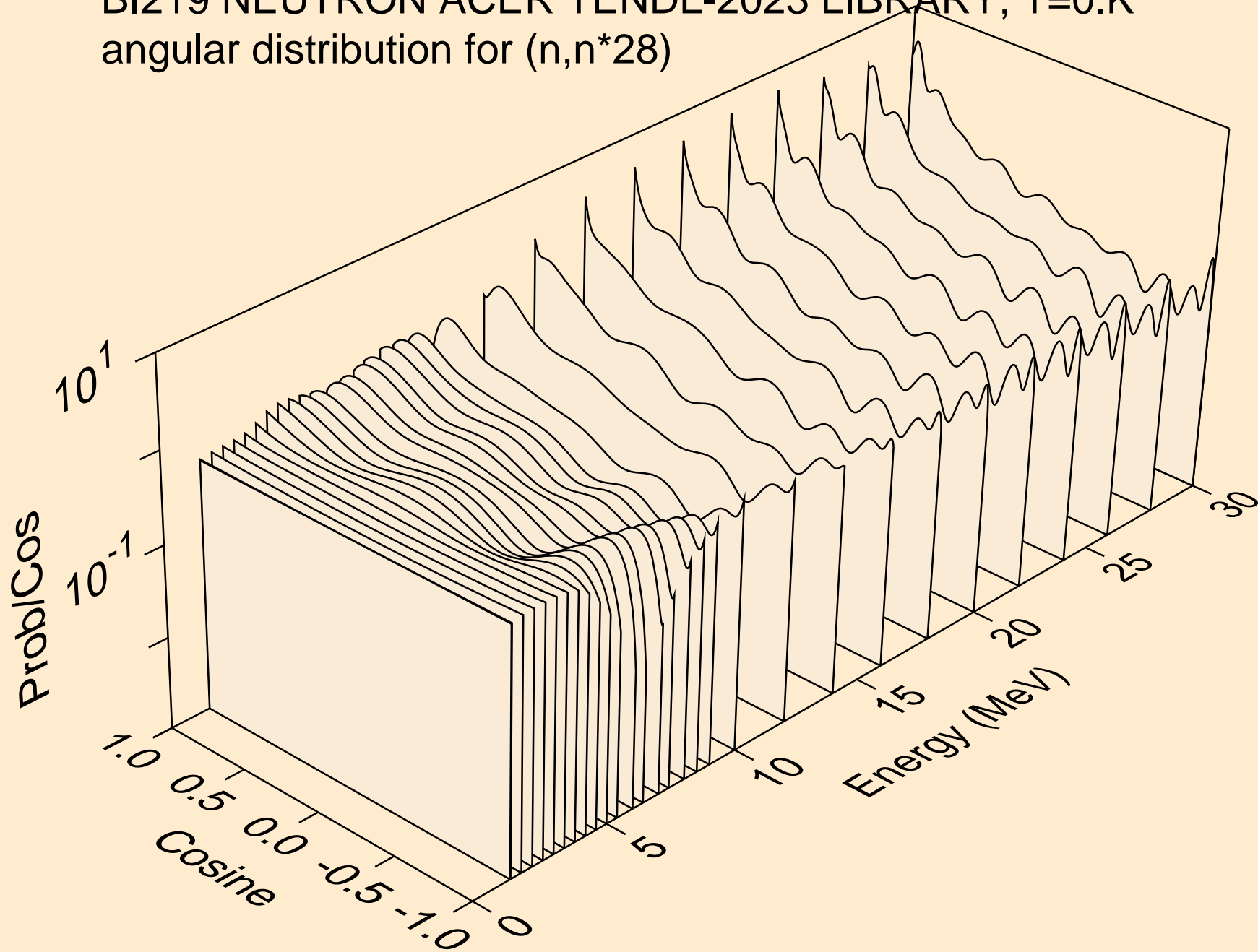
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angular distribution for (n,n\*26)



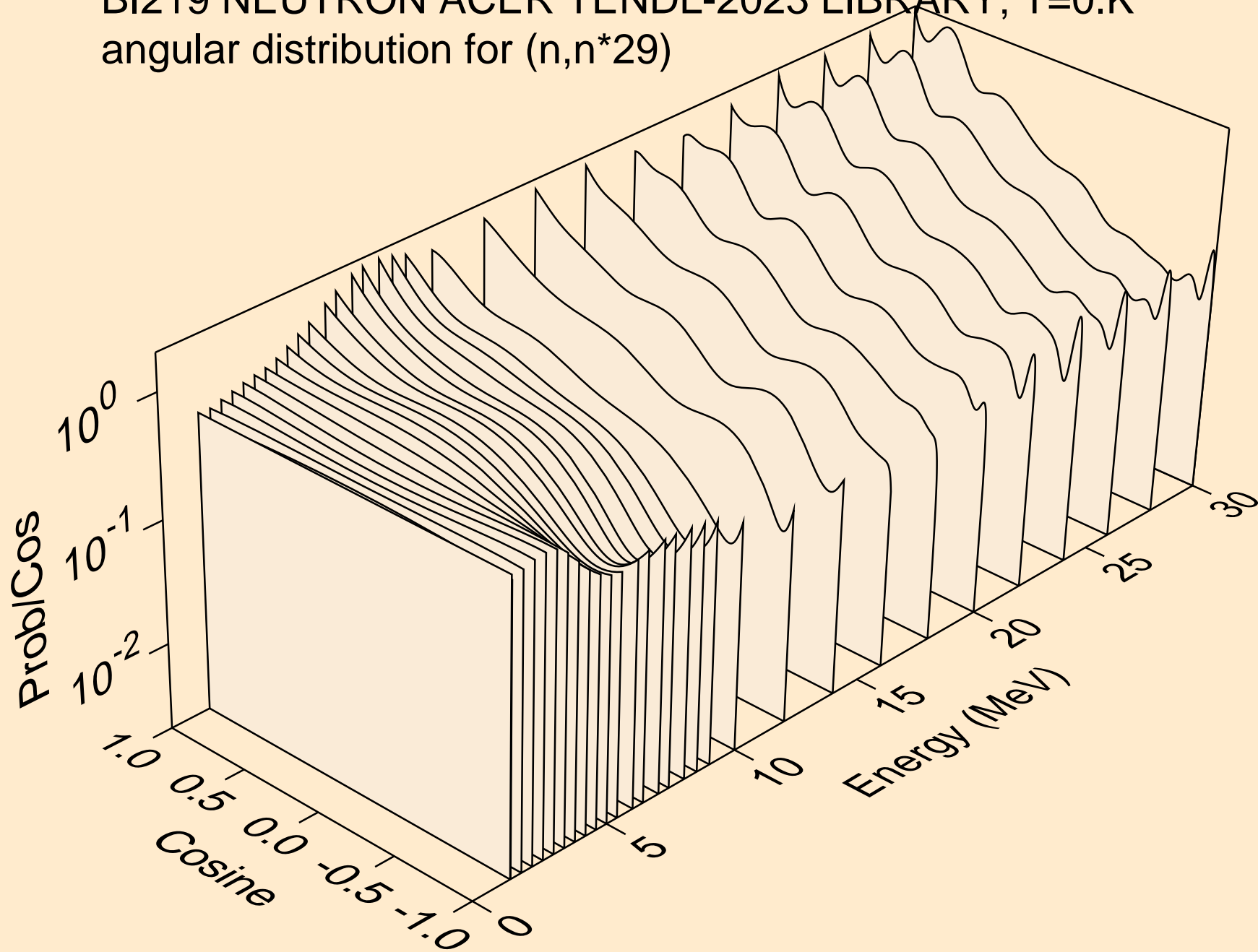
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angular distribution for (n,n\*27)



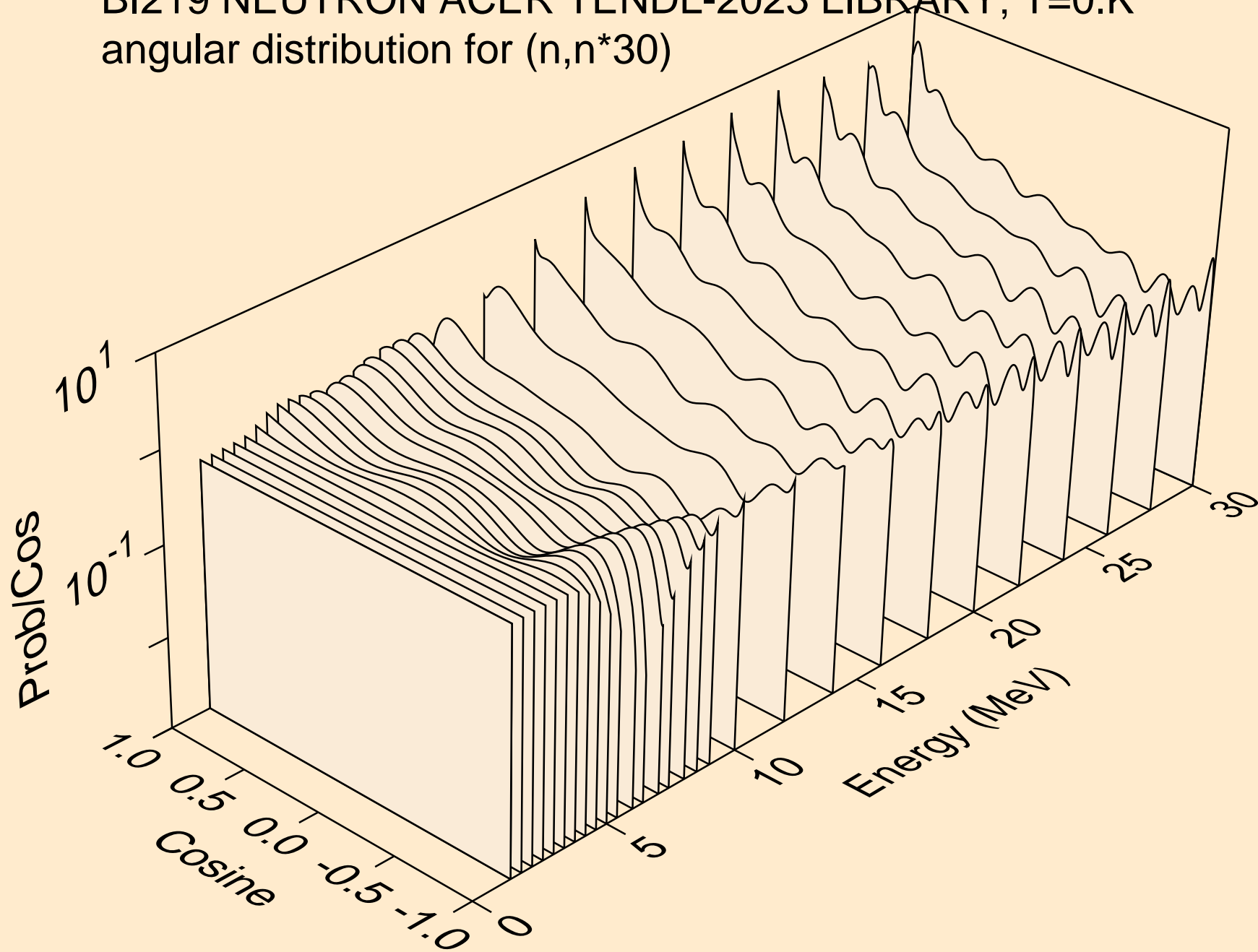
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*29)

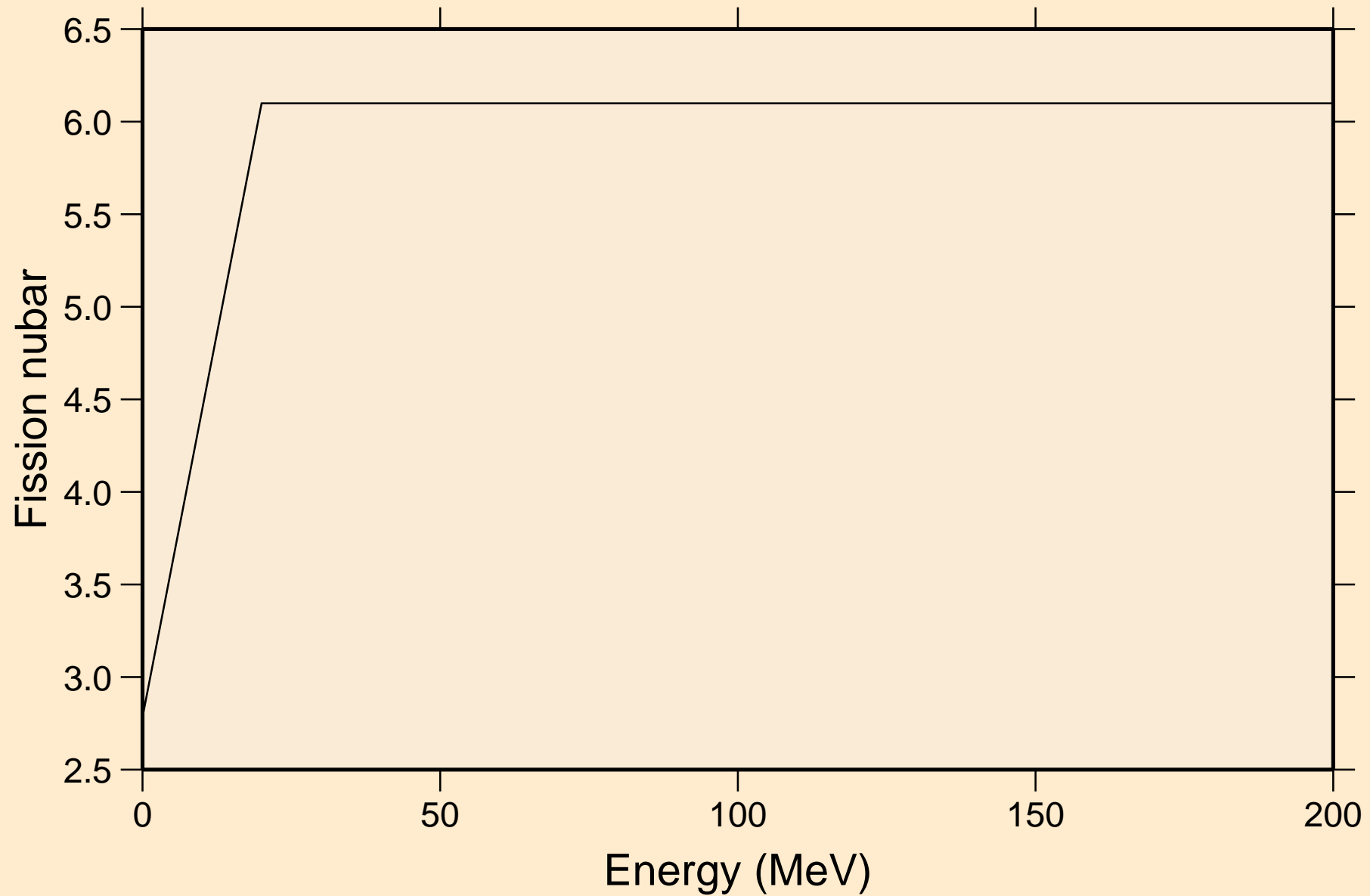


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*30)

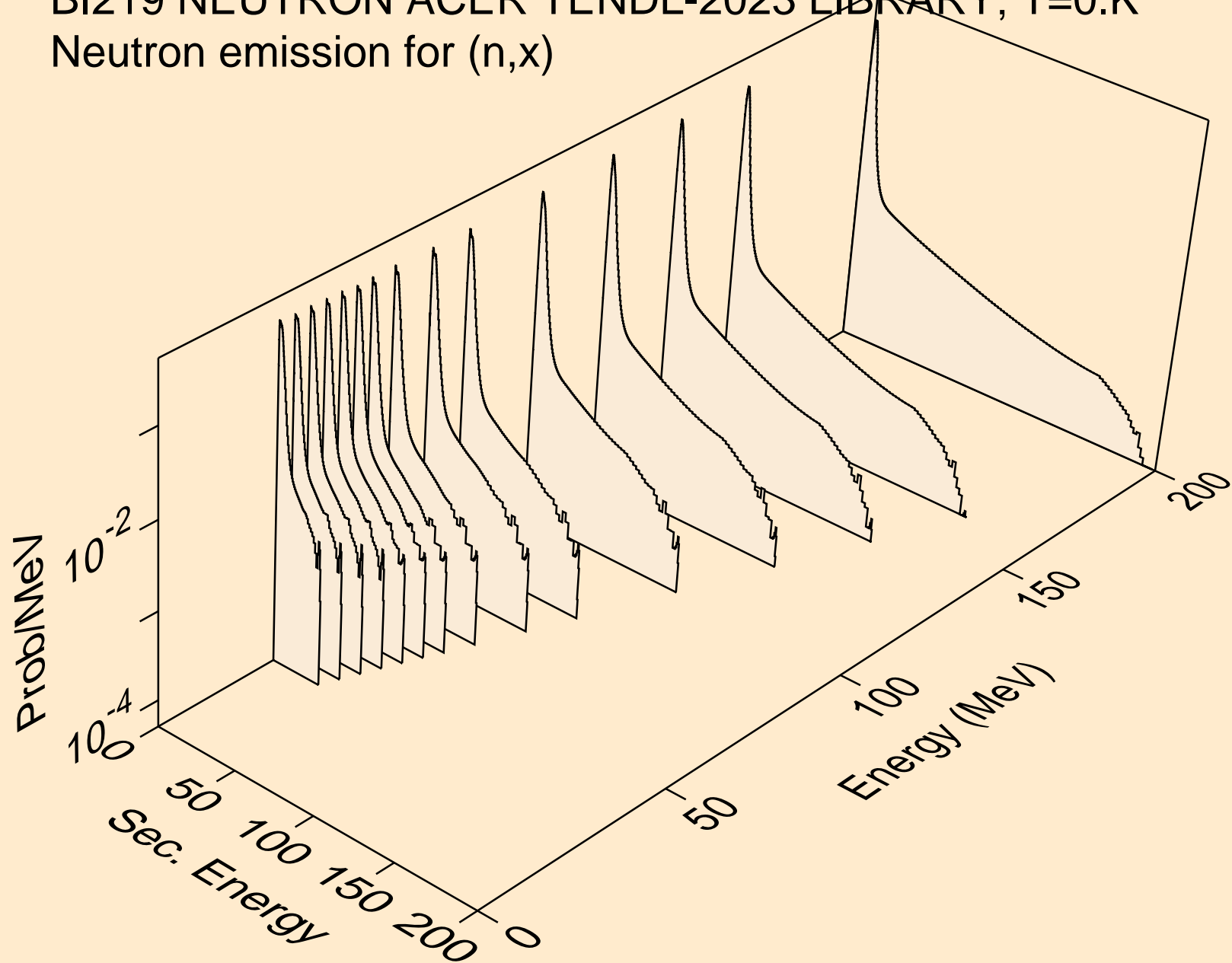


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

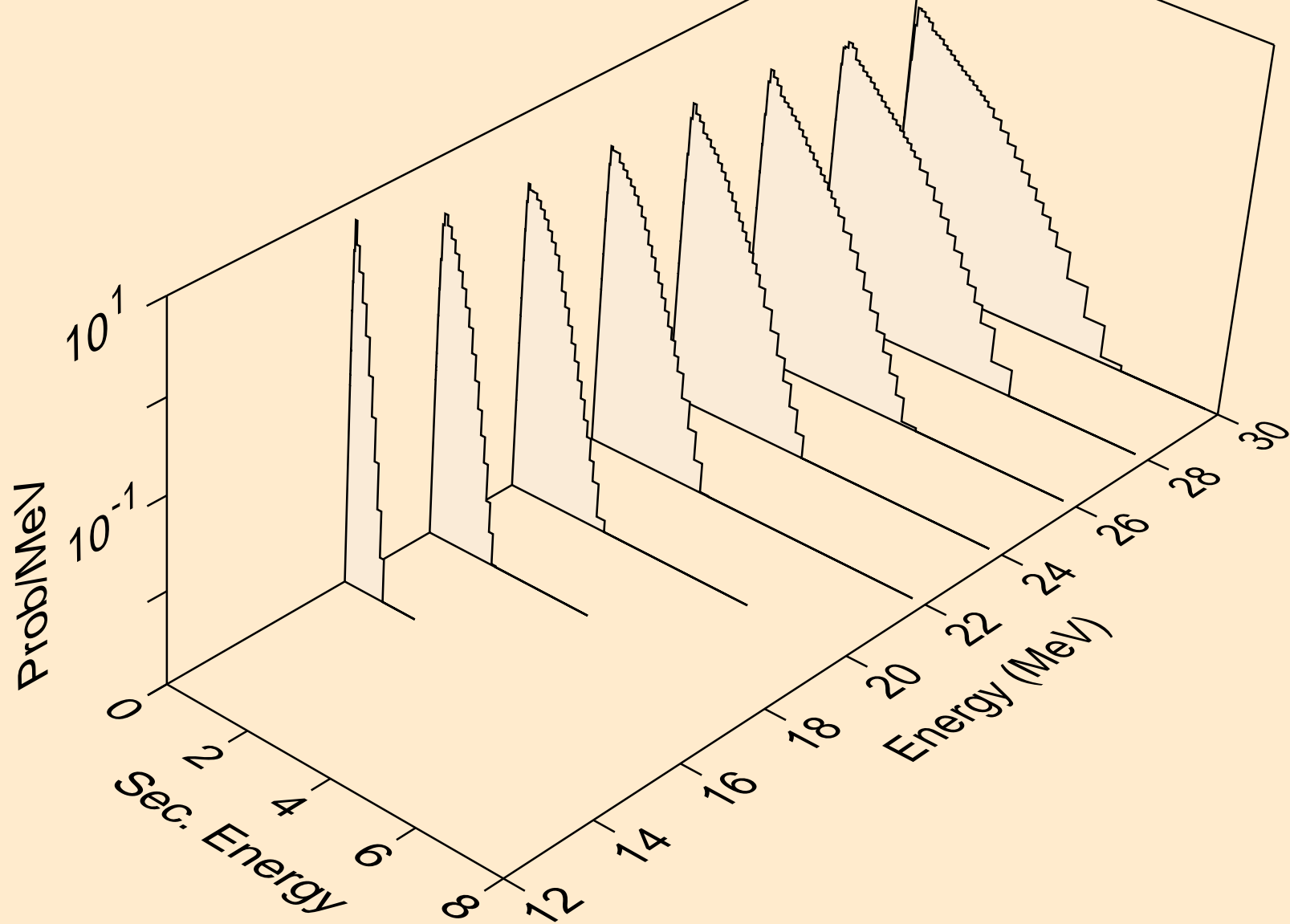
Total fission nubar



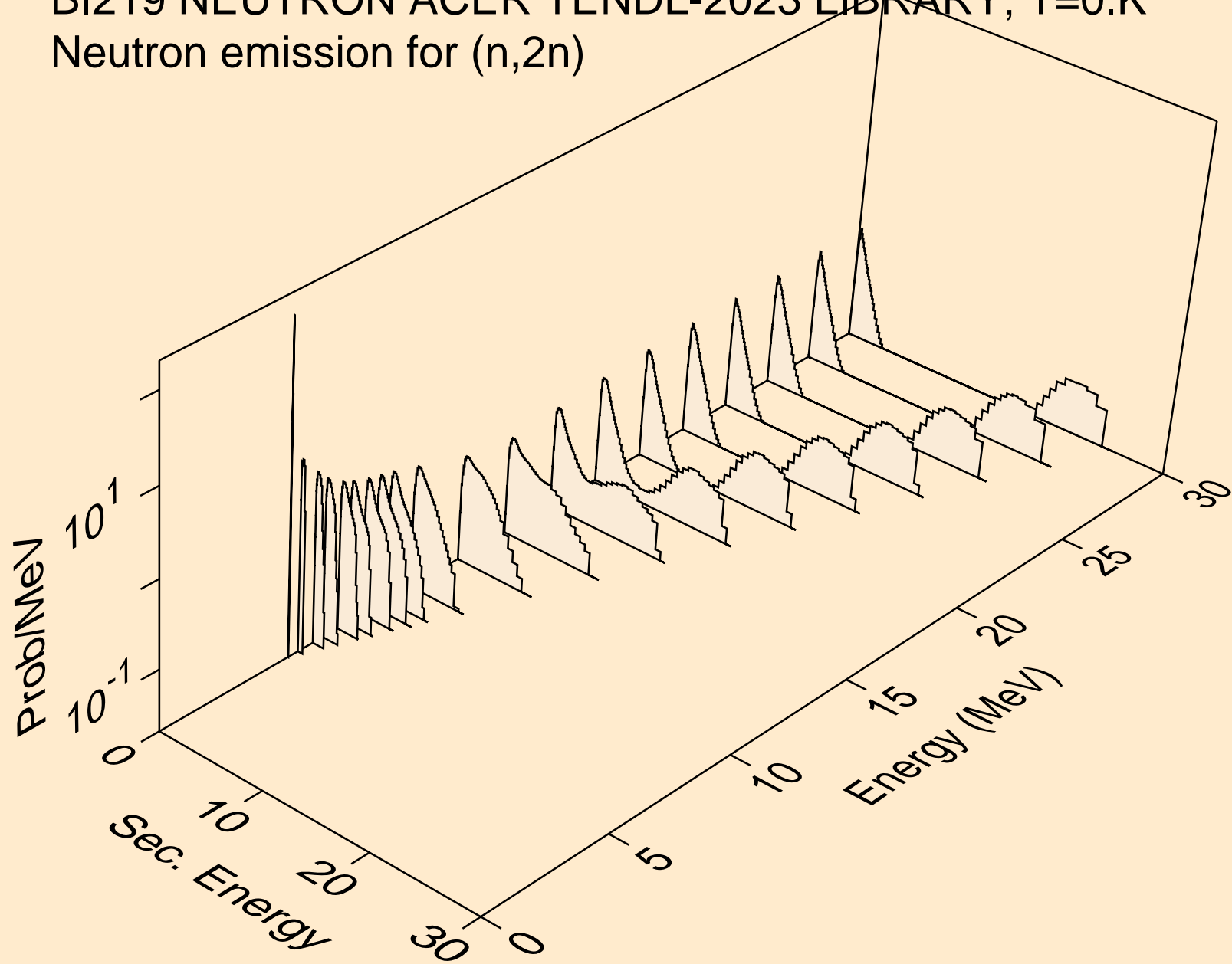
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



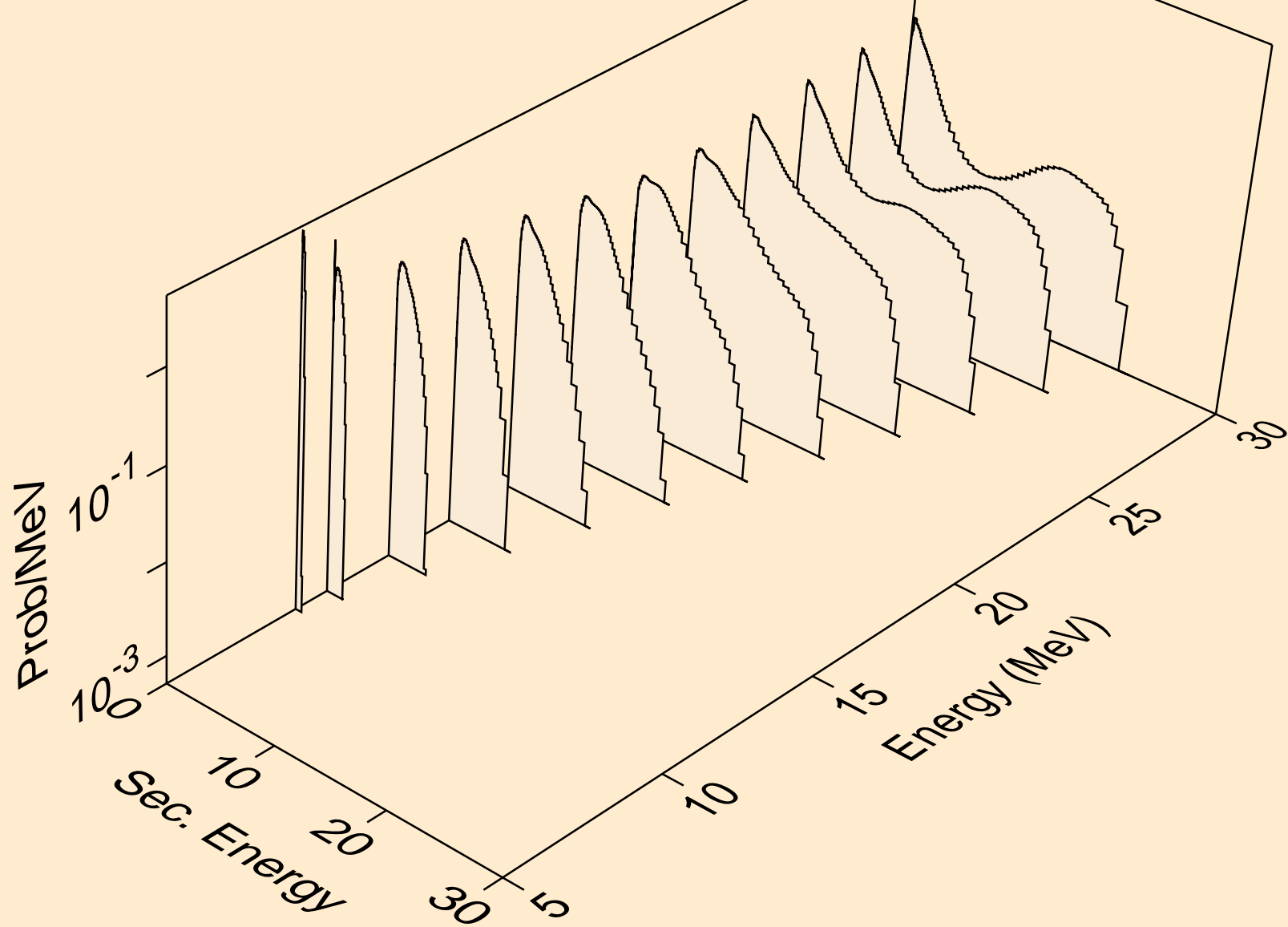
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



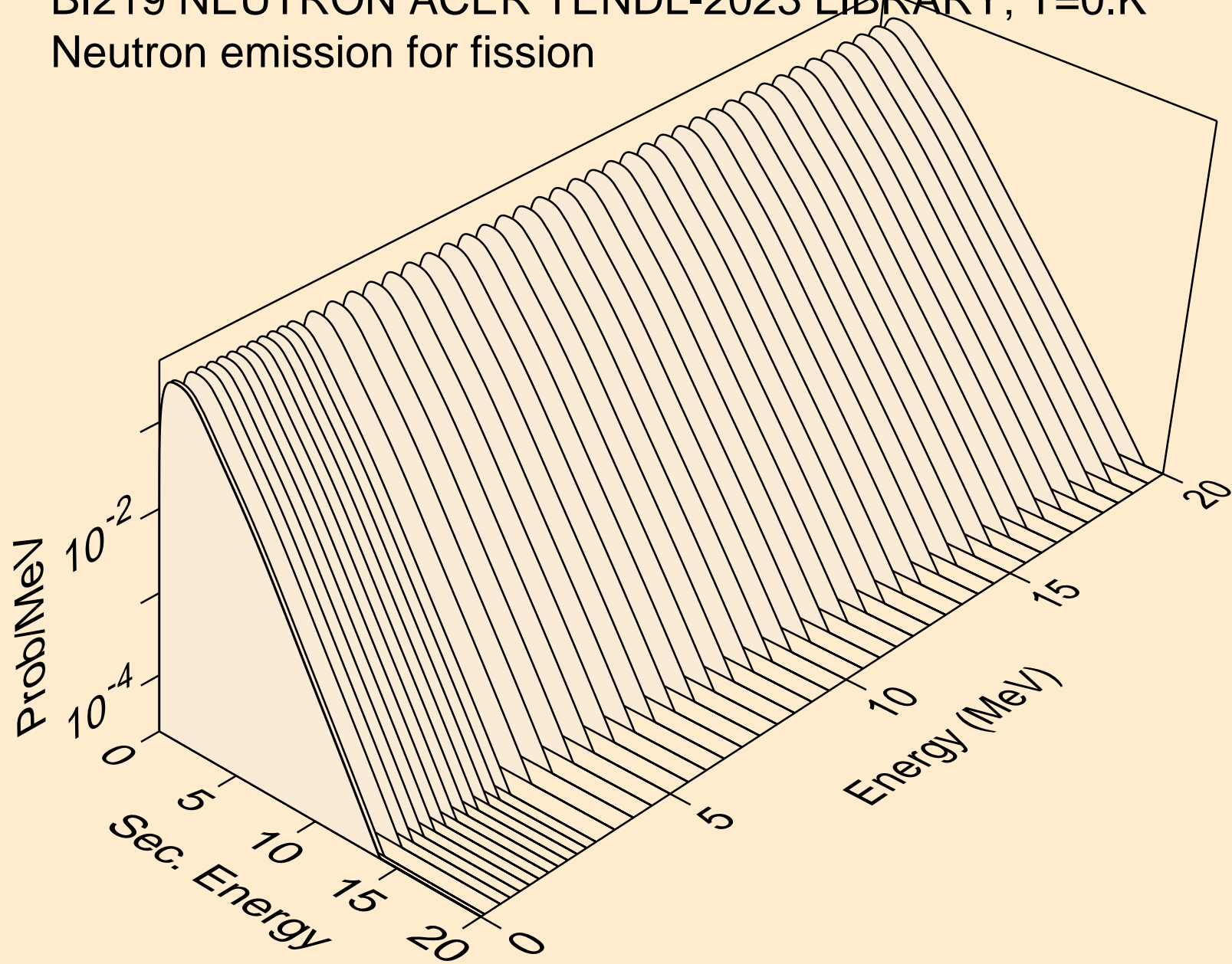
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



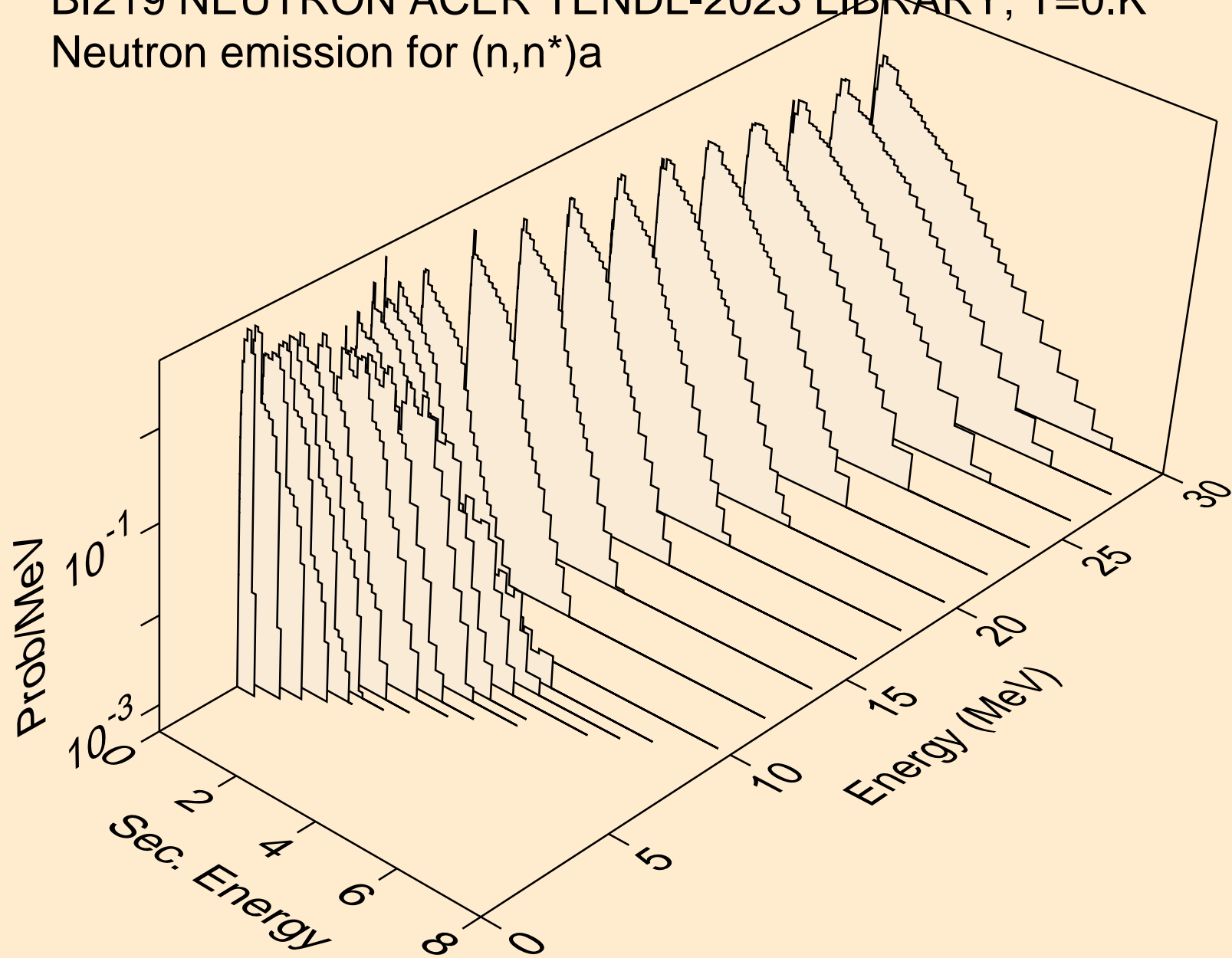
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



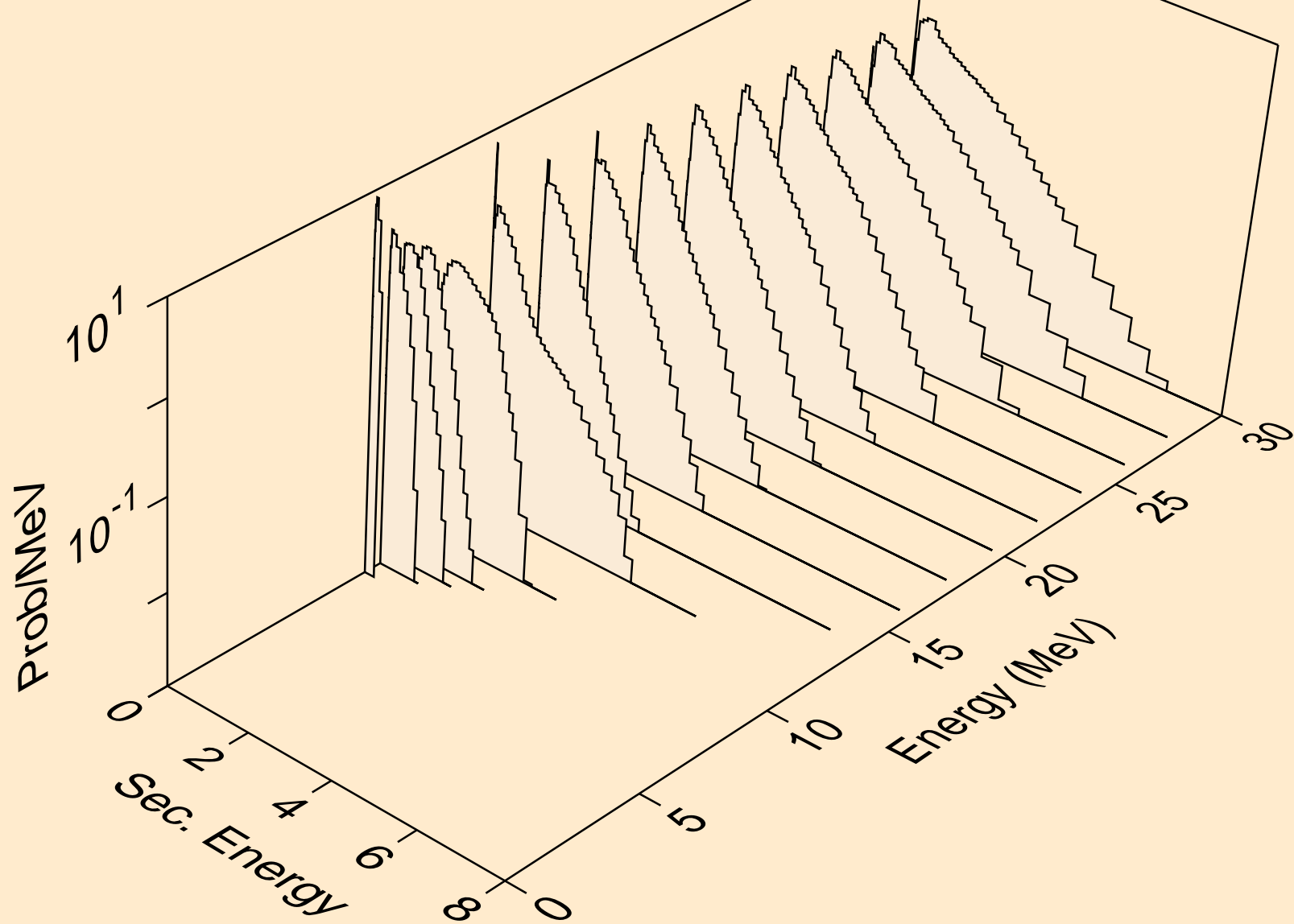
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for fission



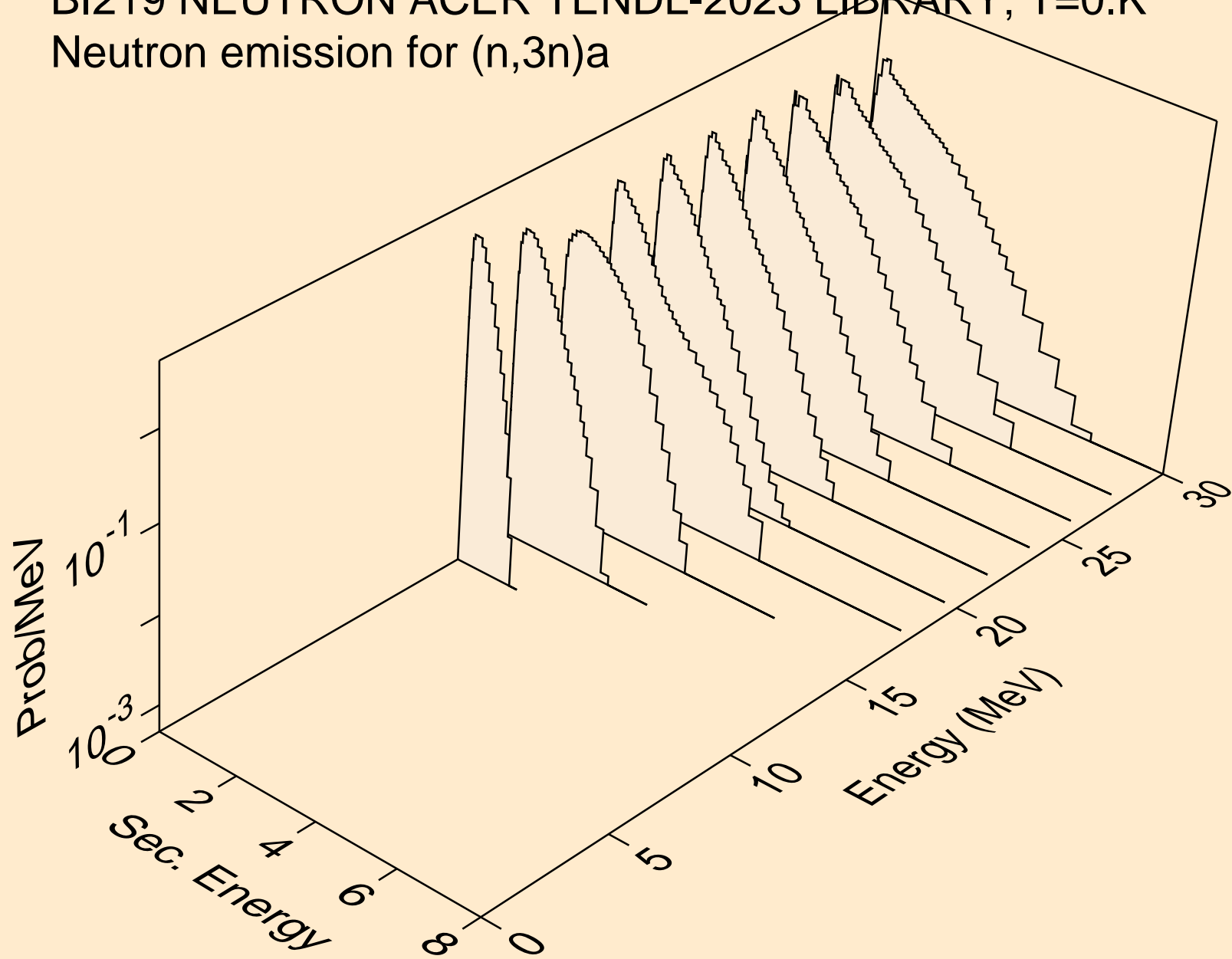
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



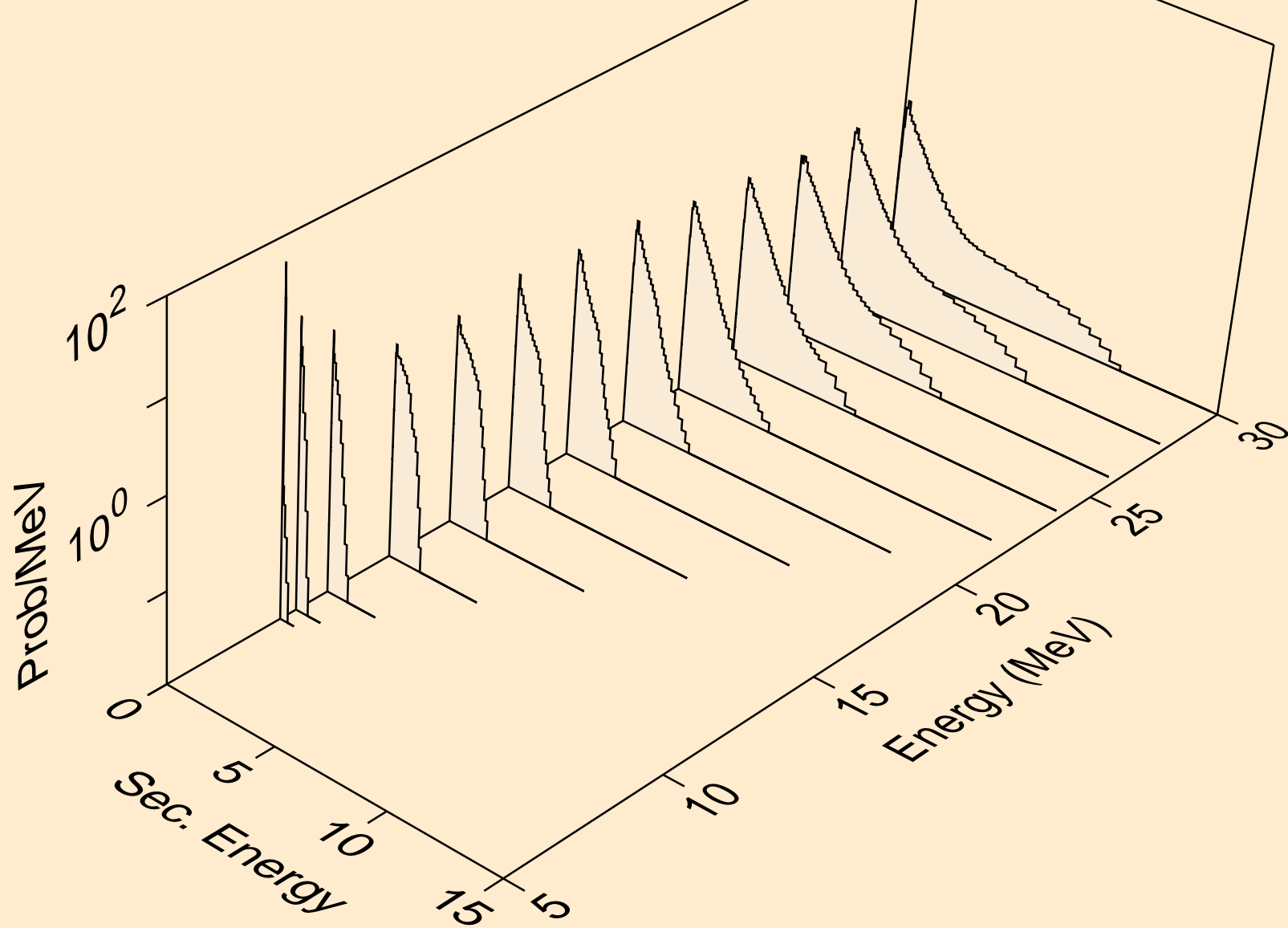
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



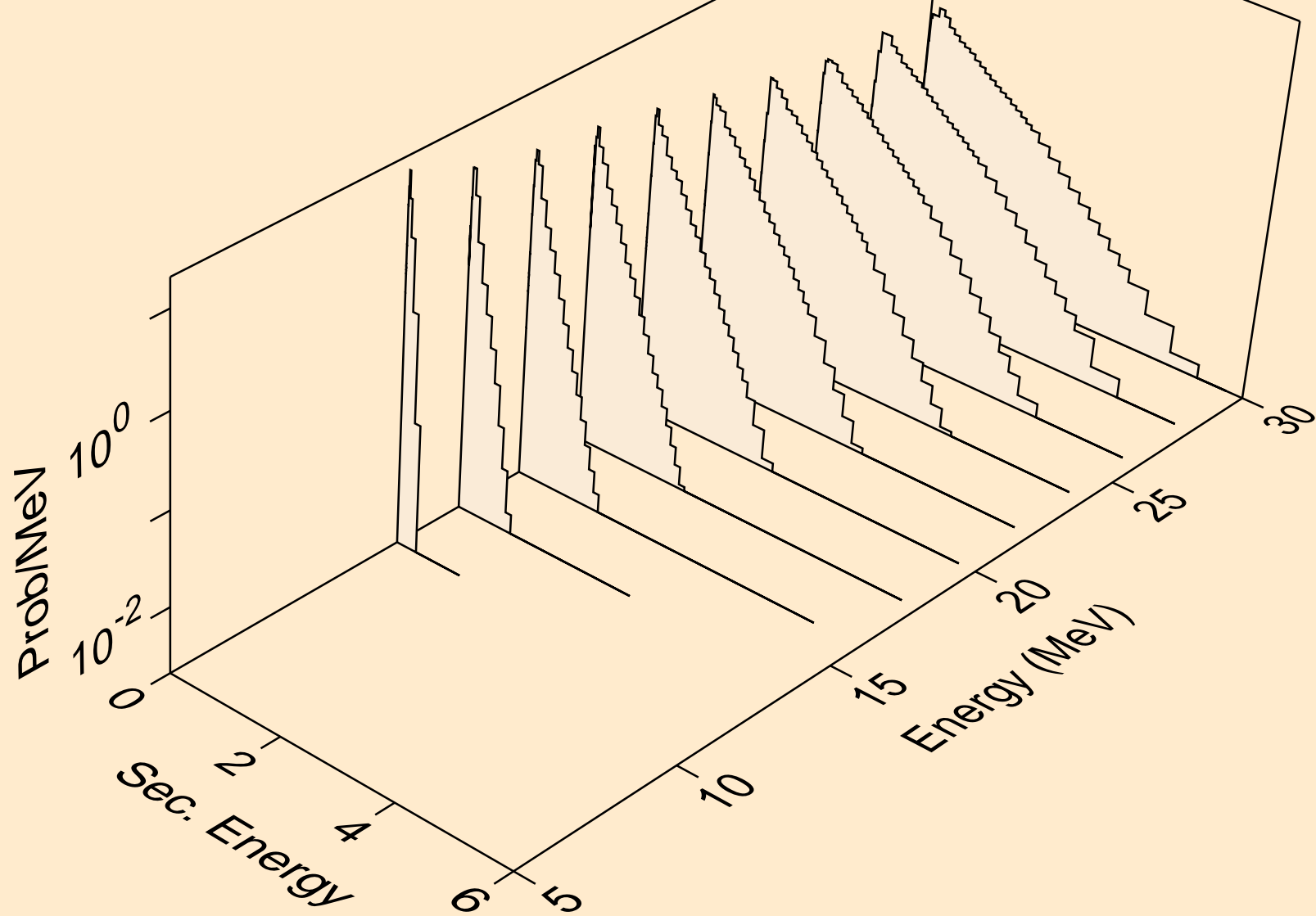
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



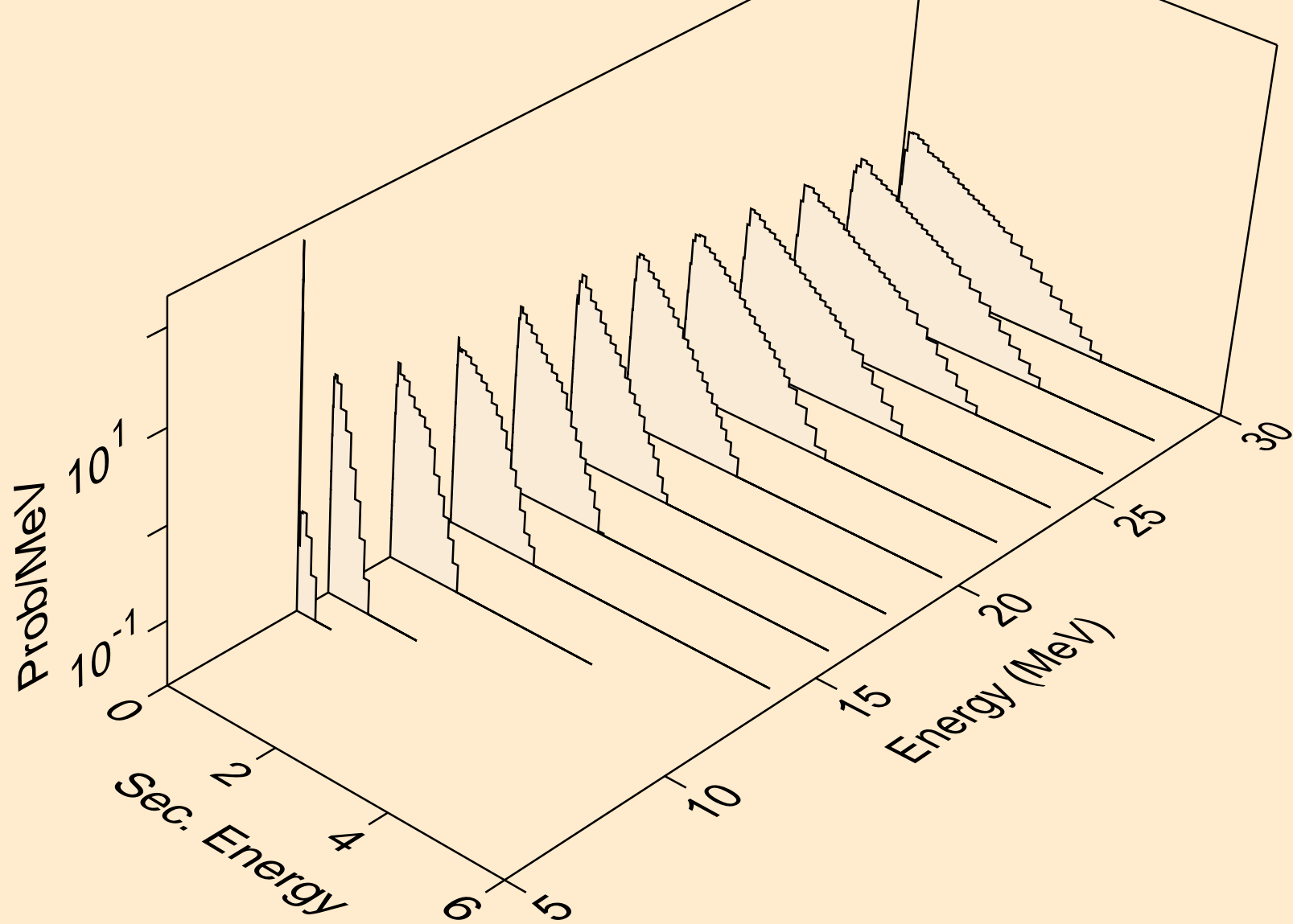
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



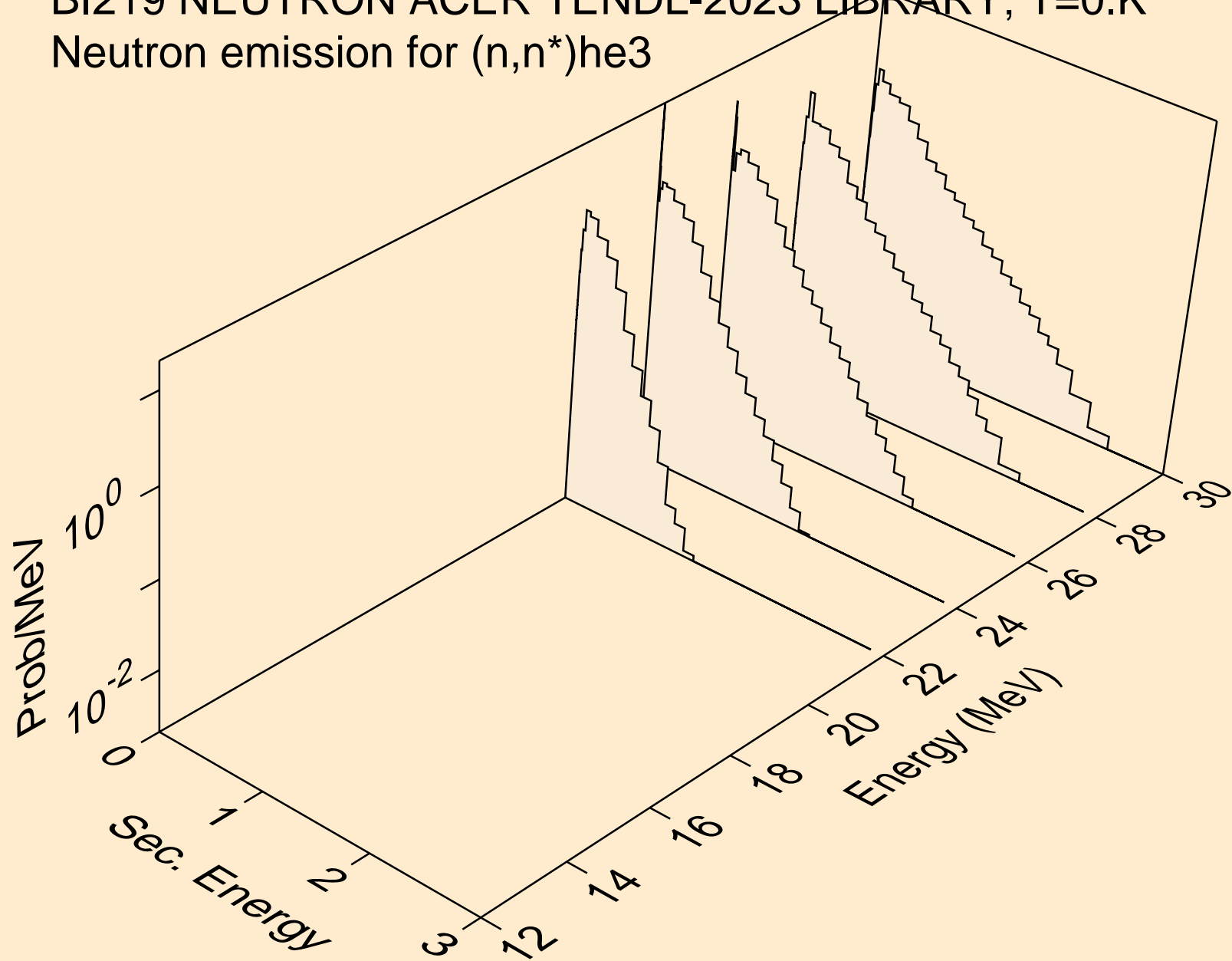
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



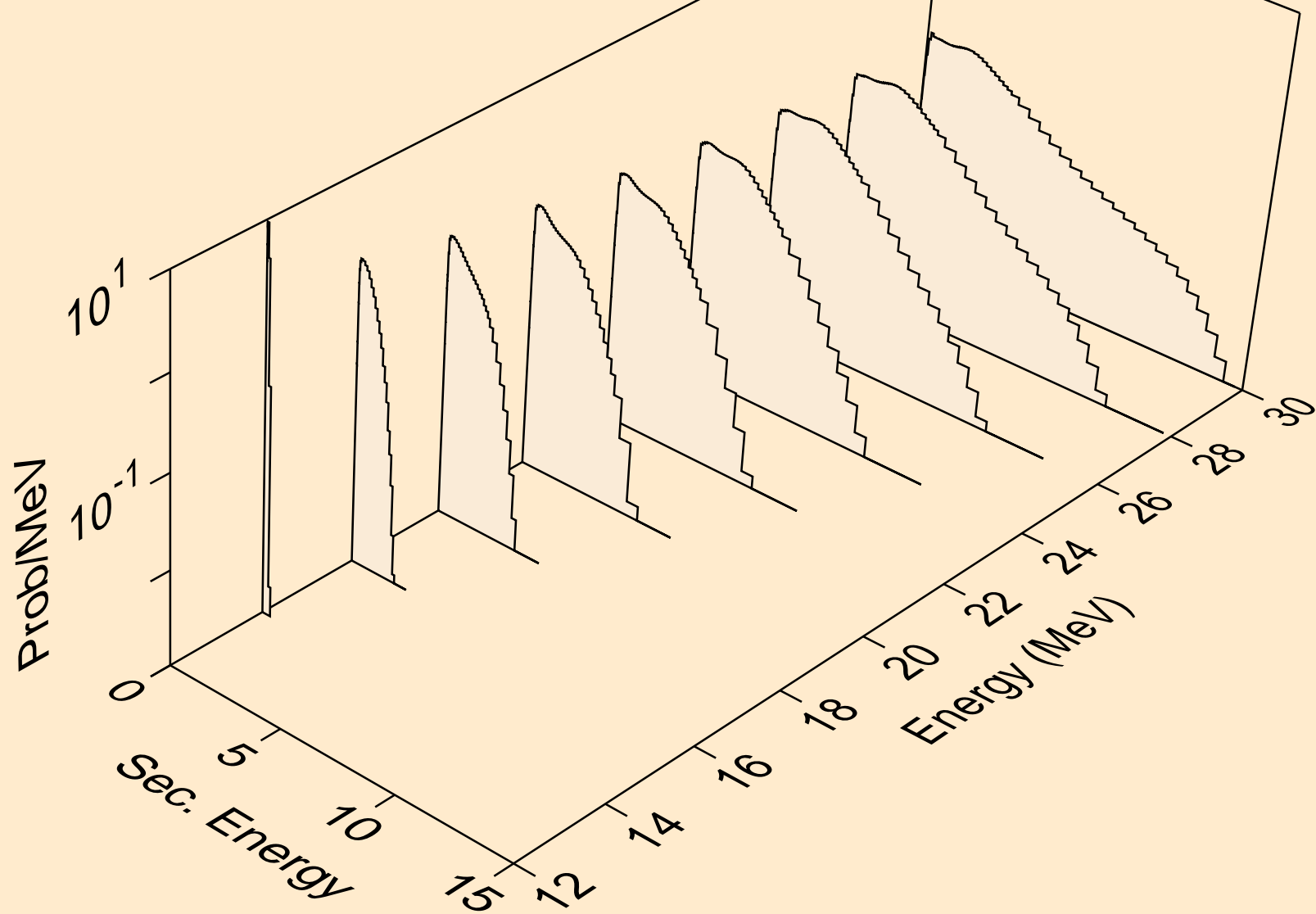
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Neutron emission for (n,n\*)t



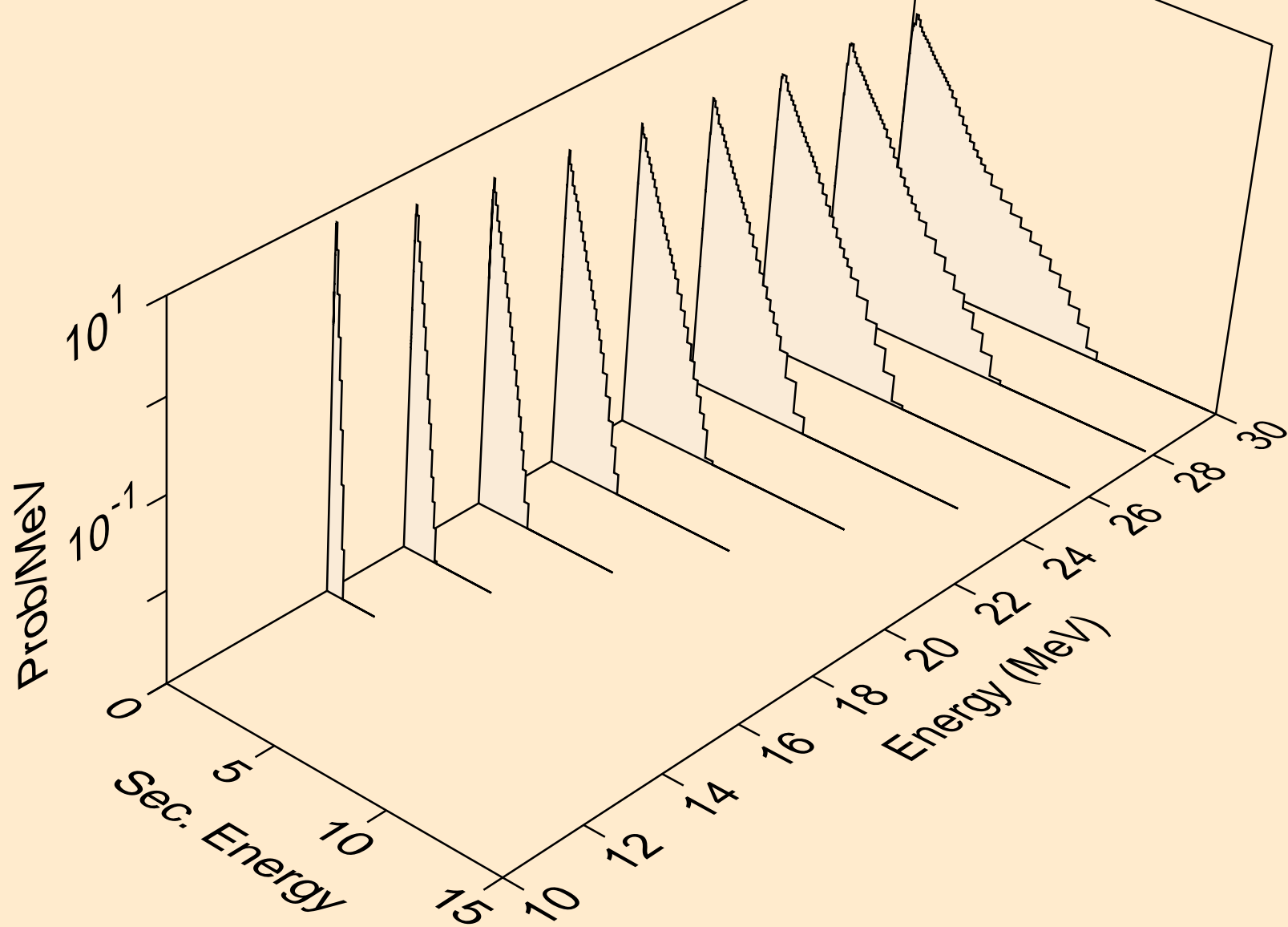
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



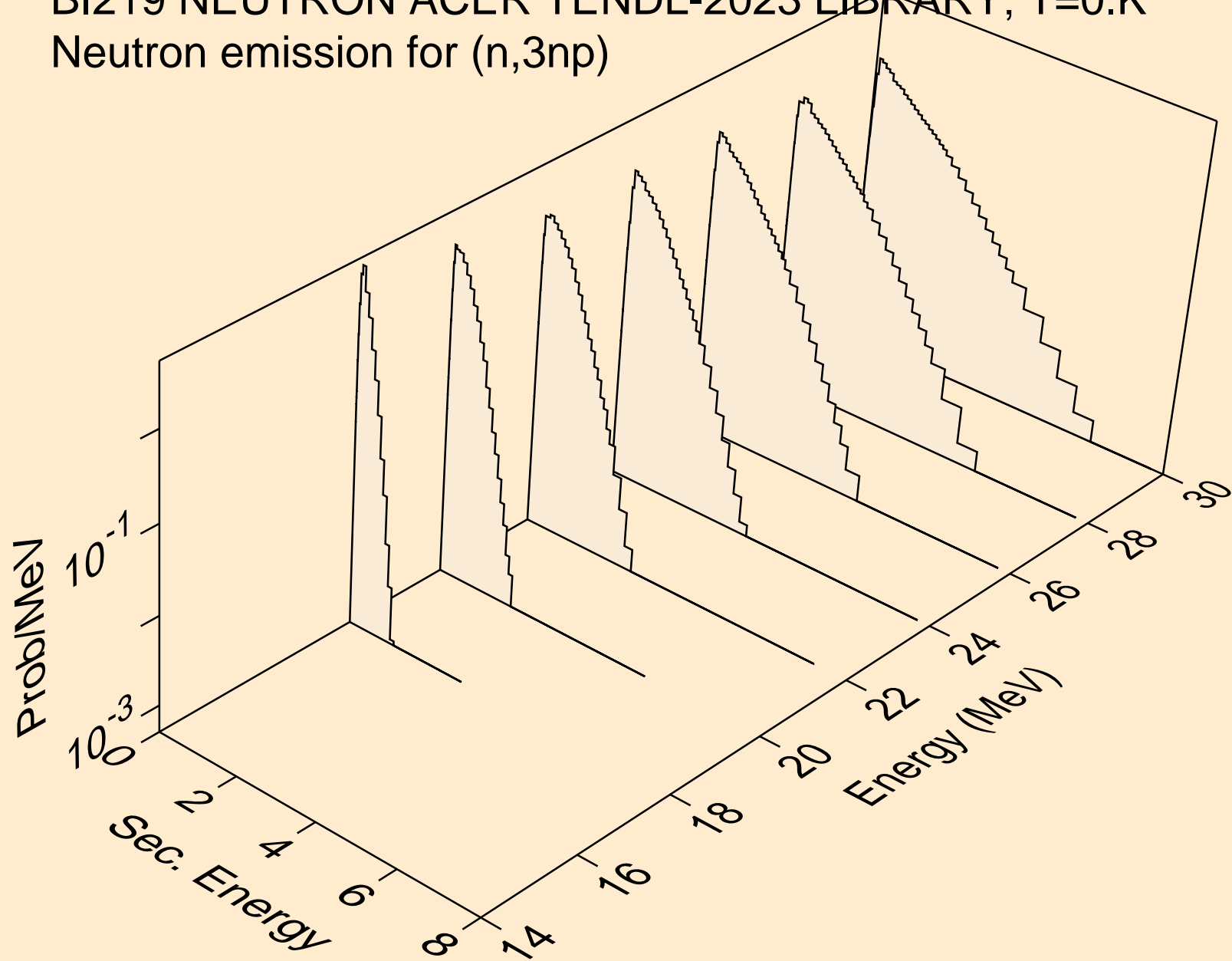
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



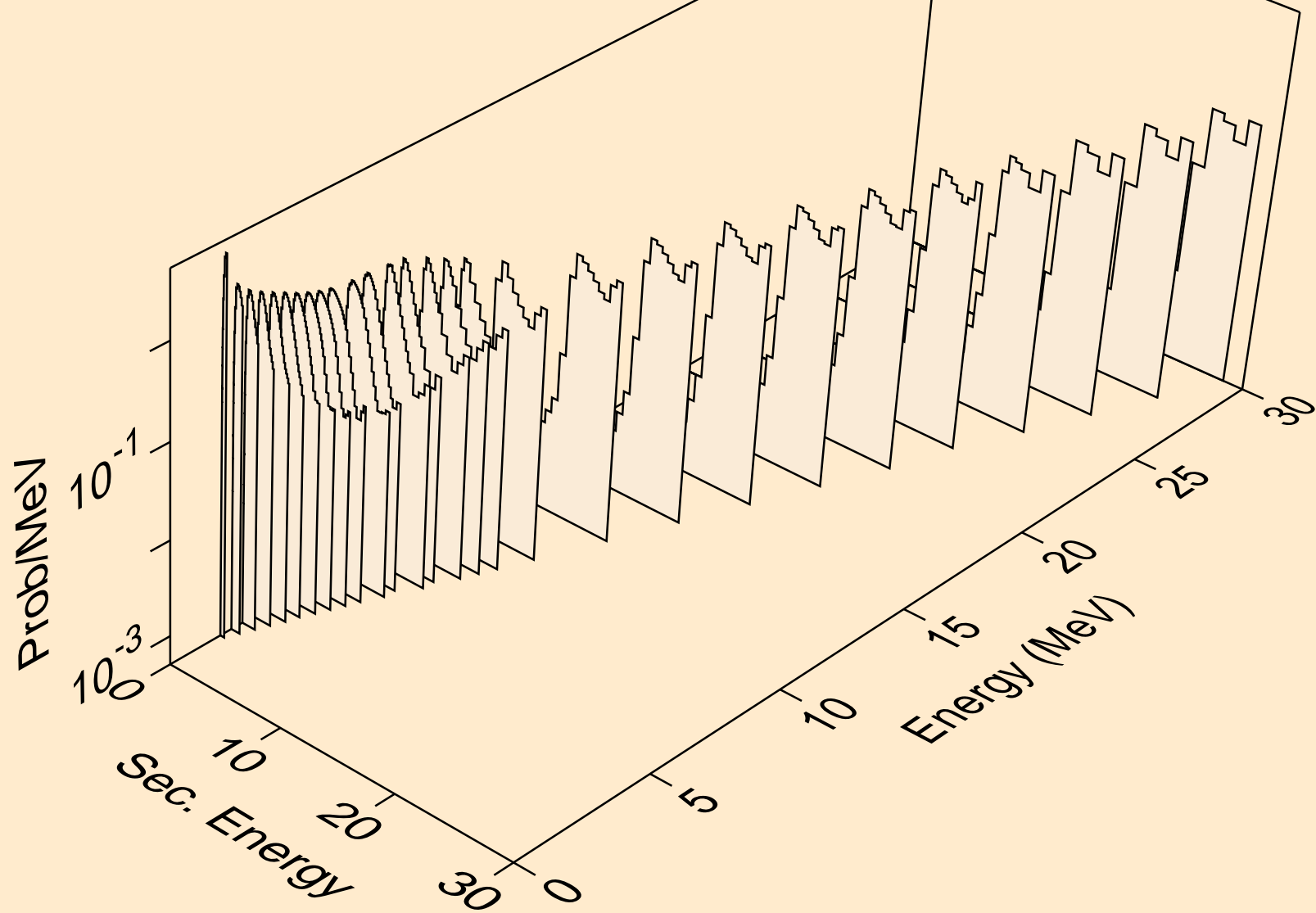
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

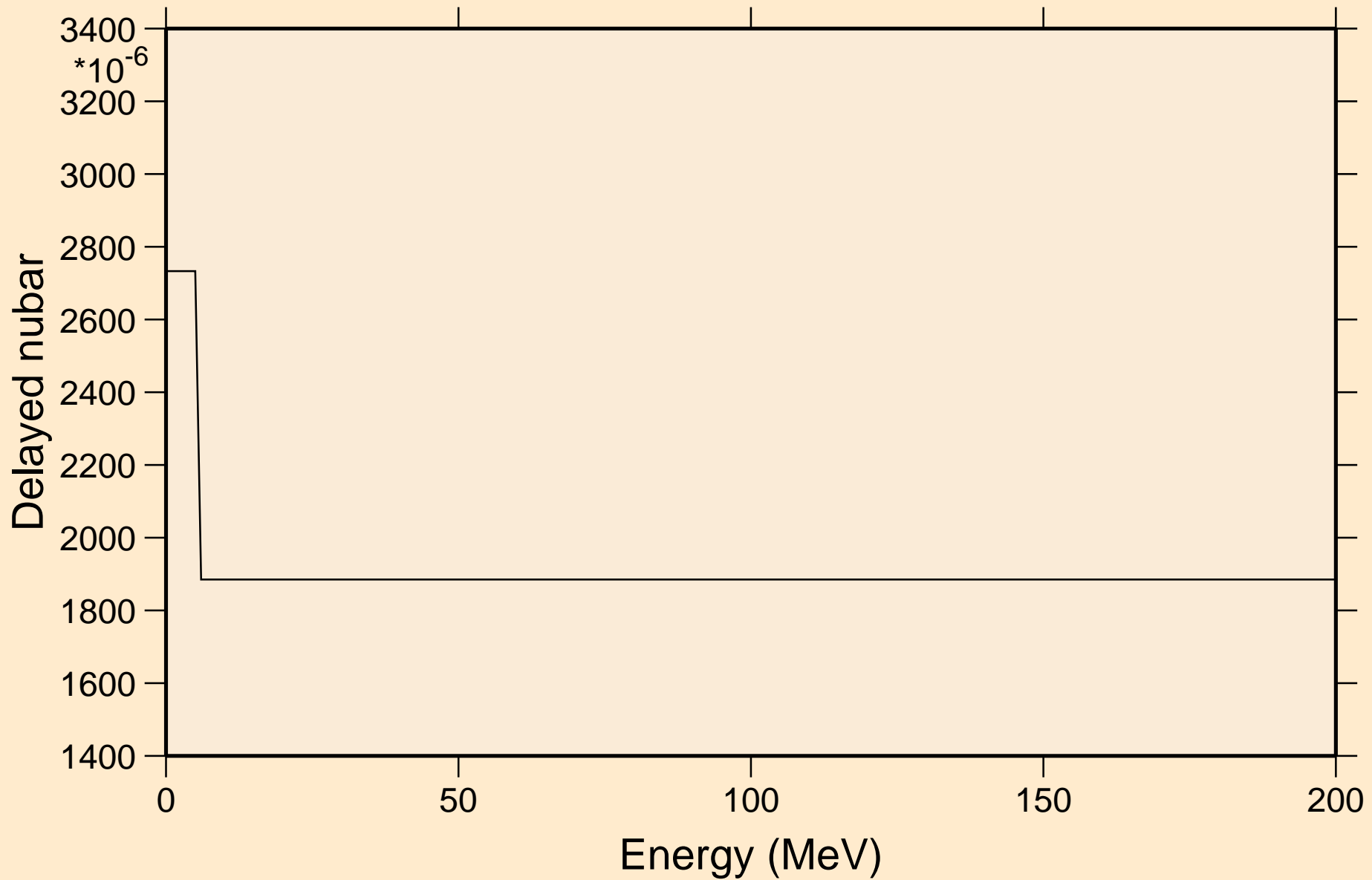


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



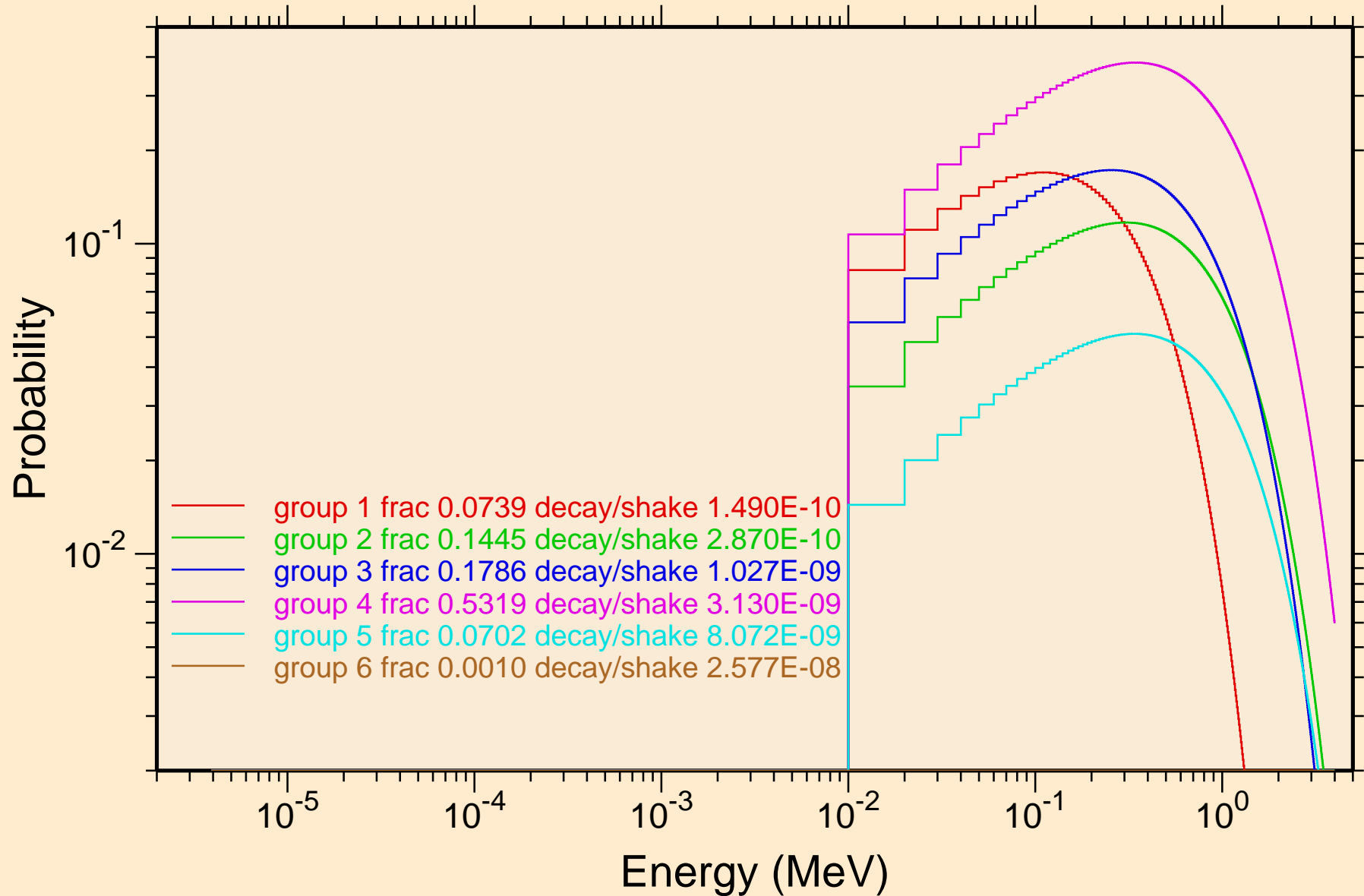
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## Delayed nubar

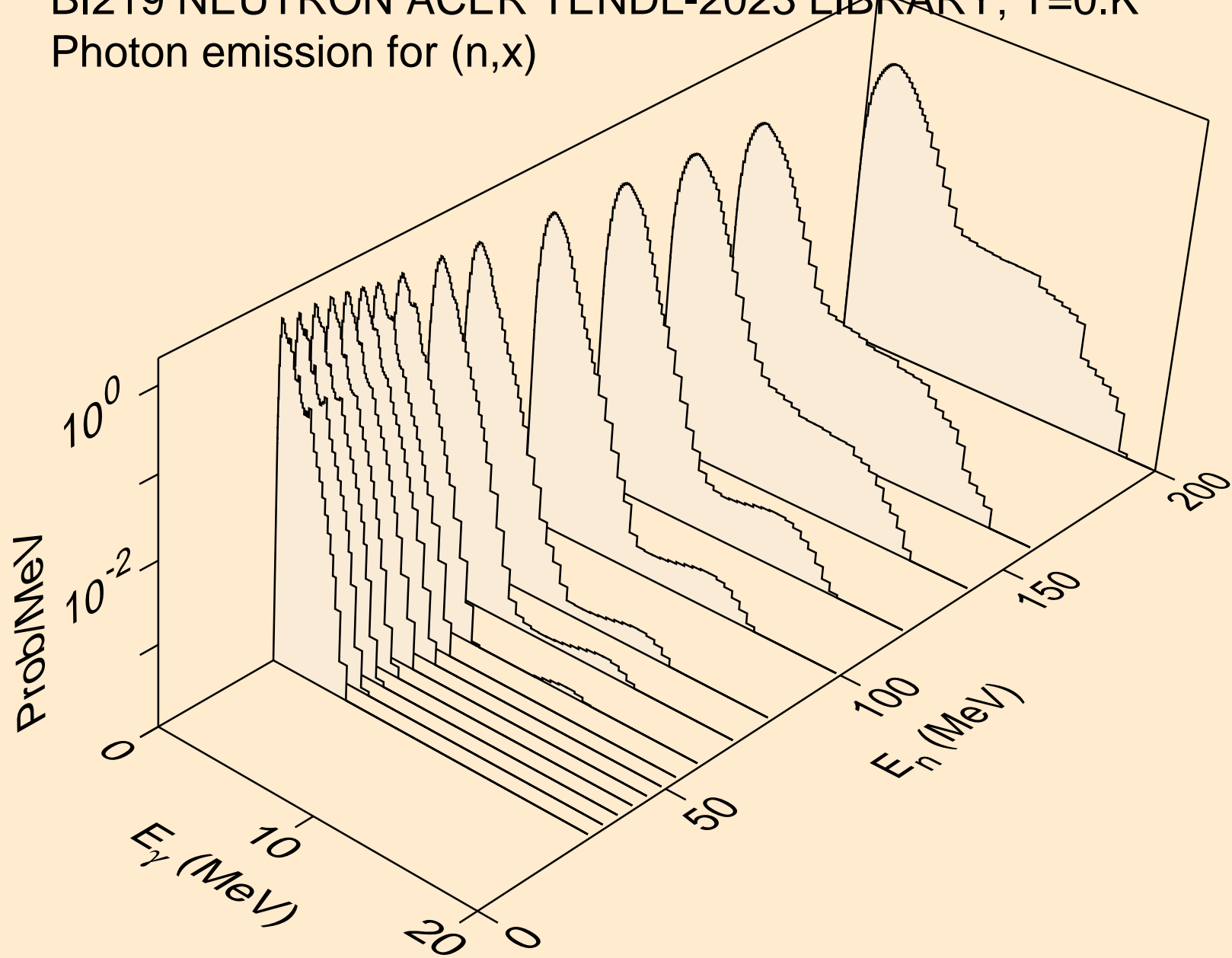


# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

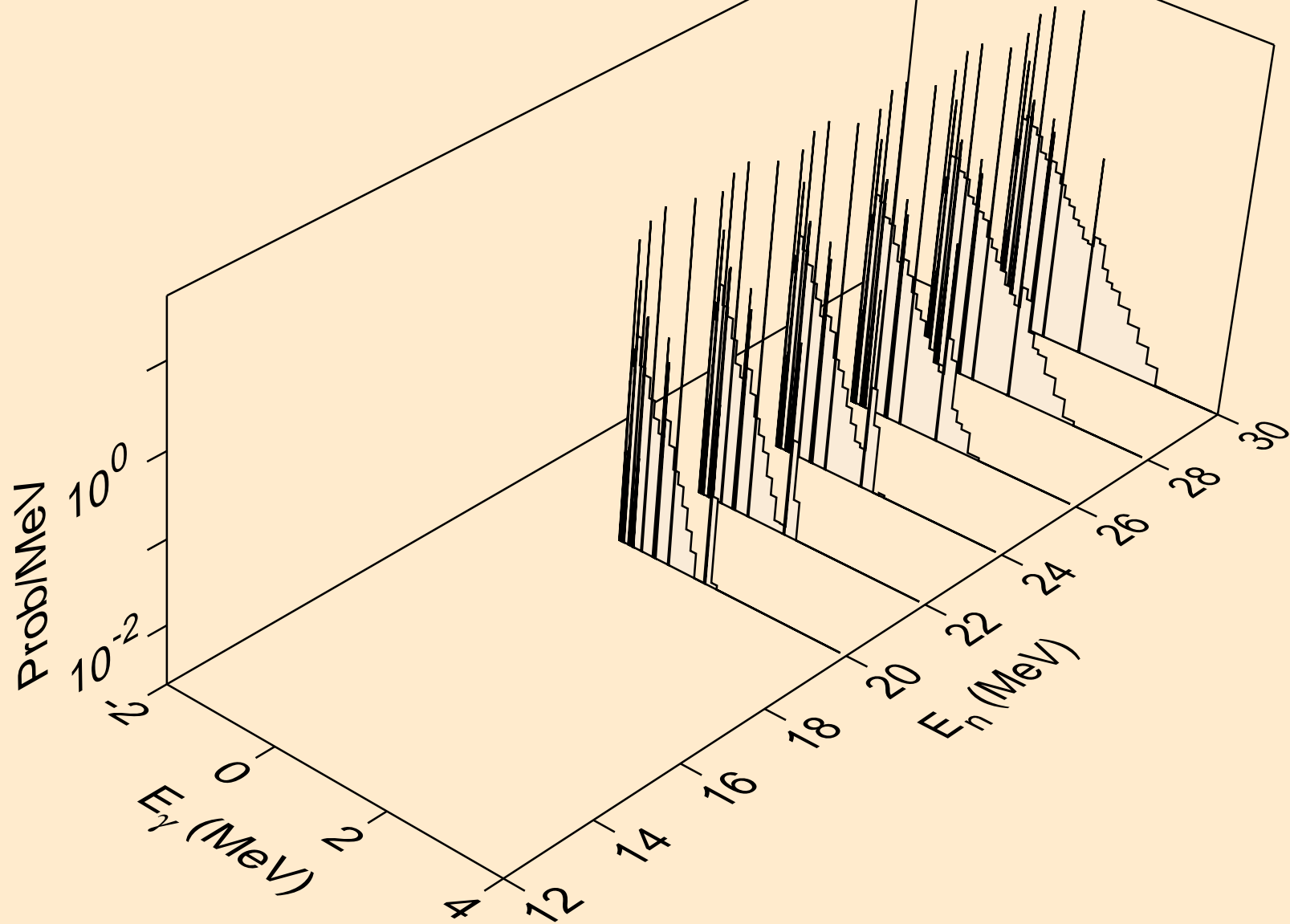
## Delayed neutron spectra



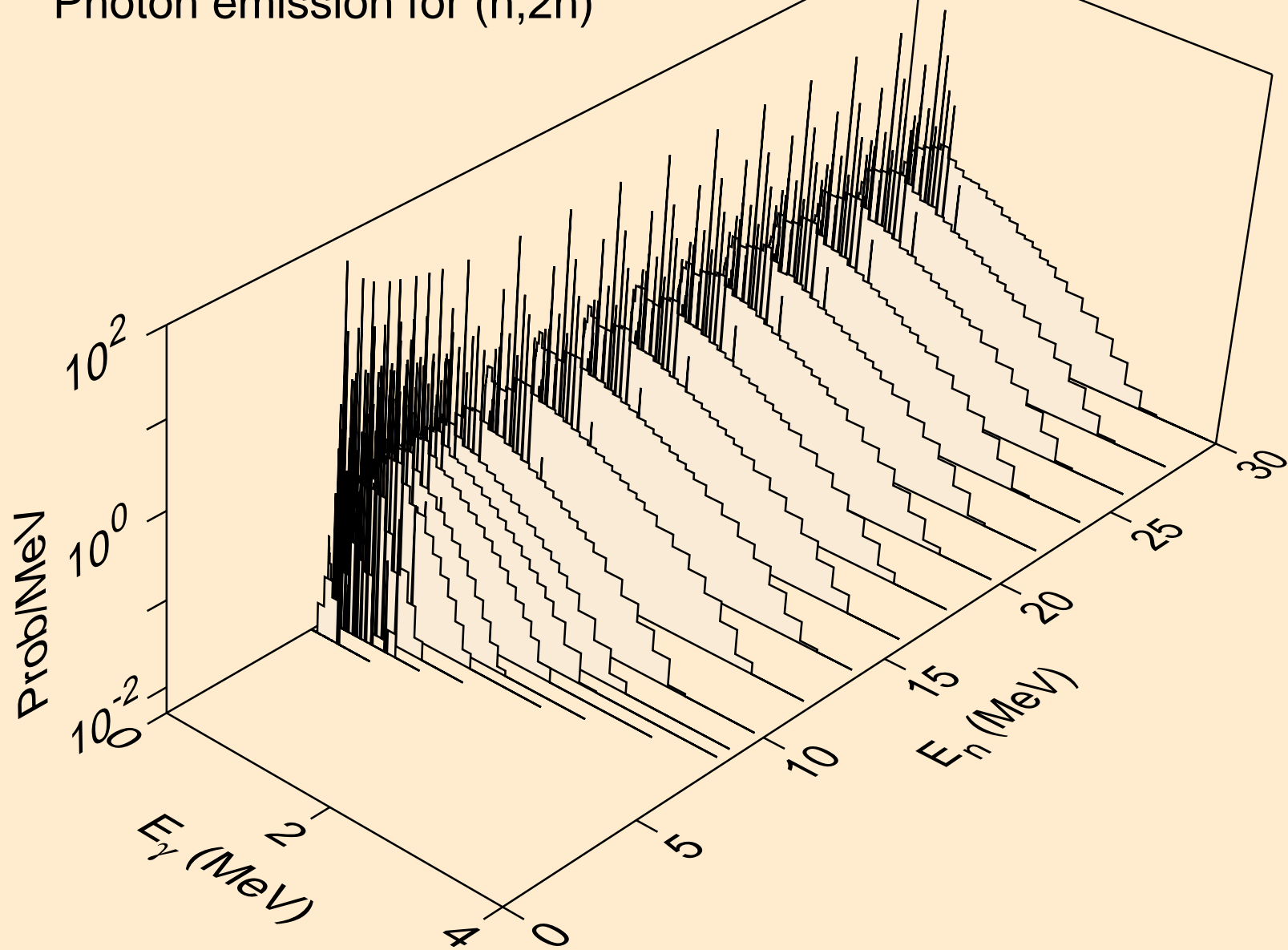
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



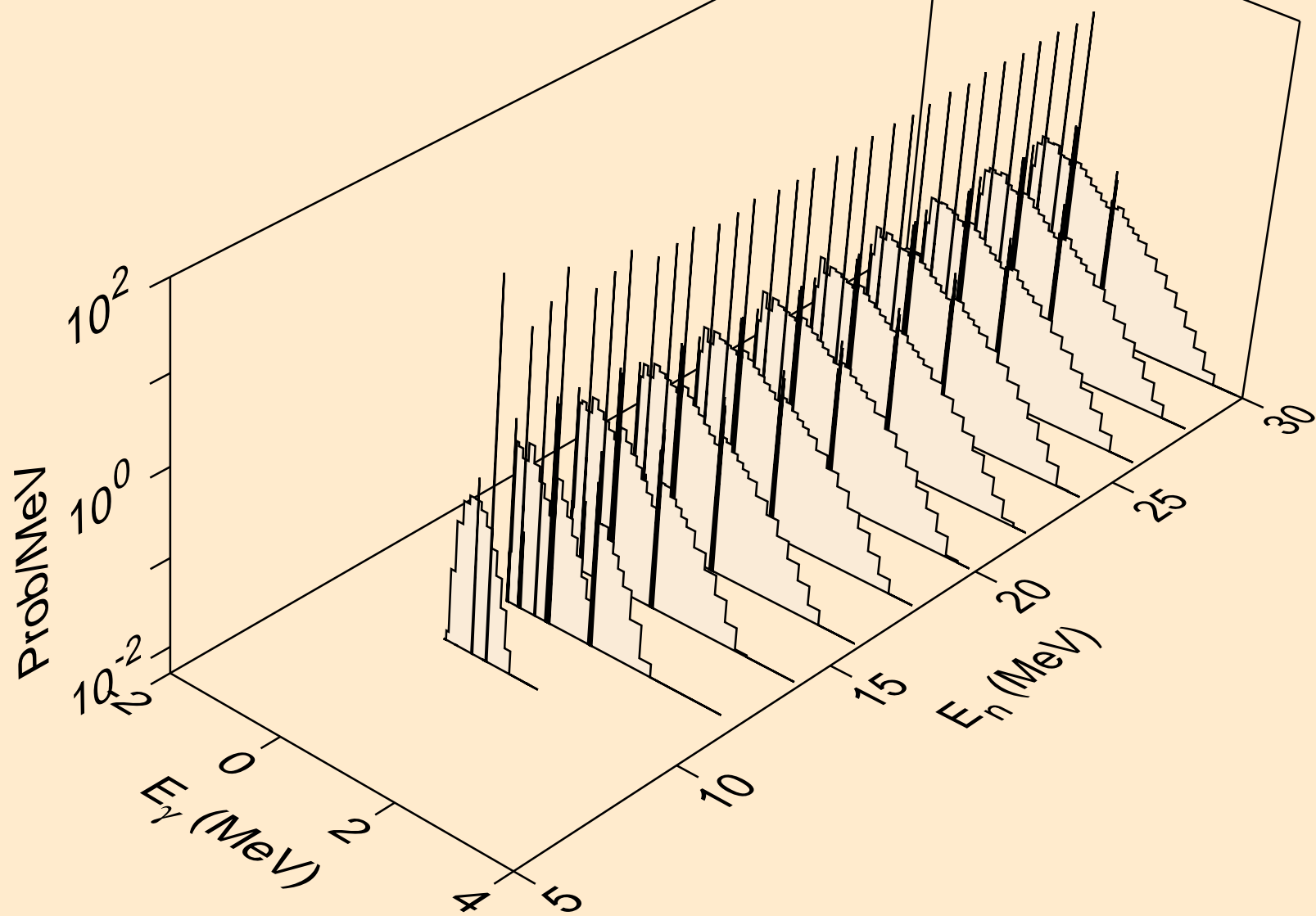
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



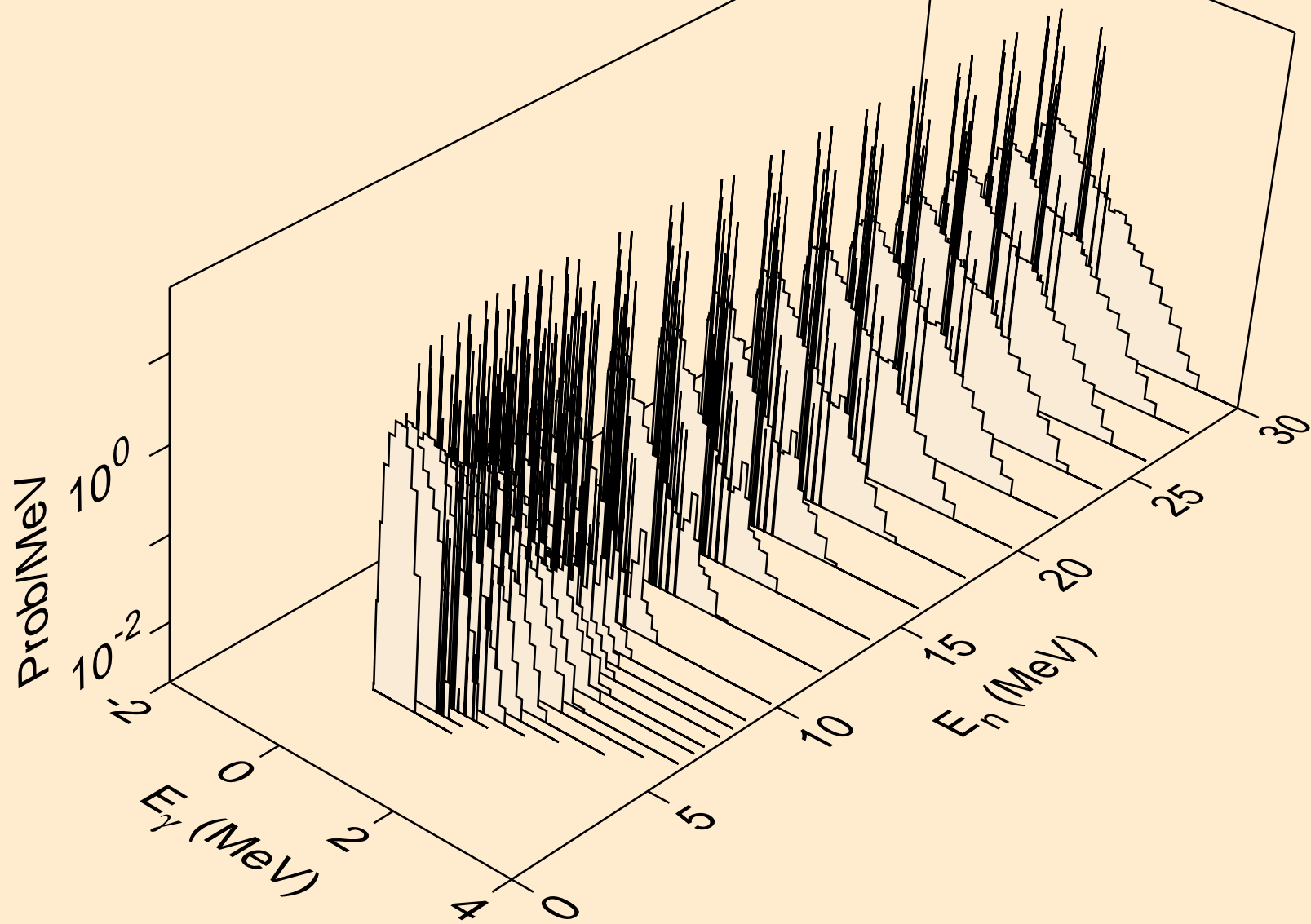
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



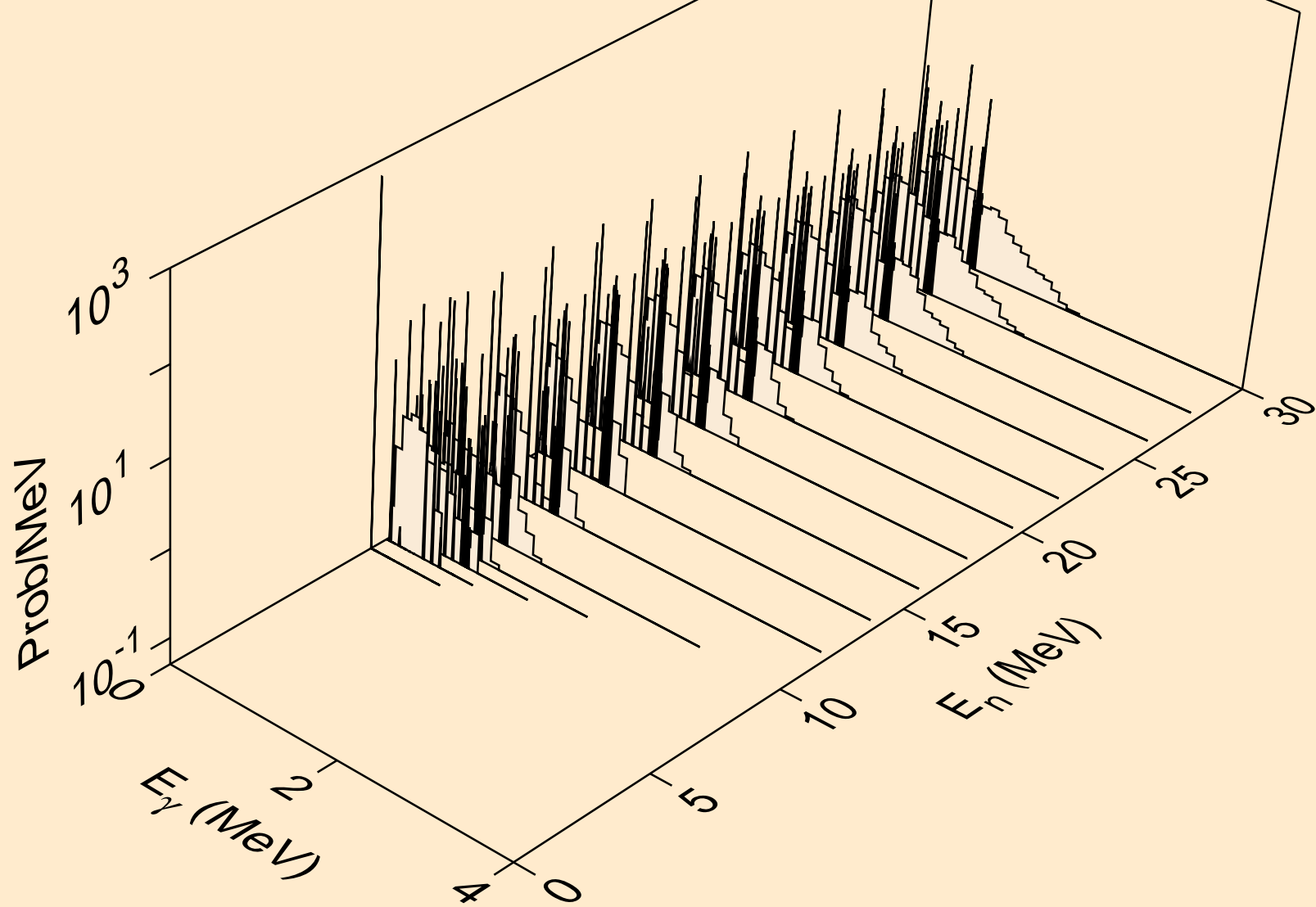
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Photon emission for (n,3n)



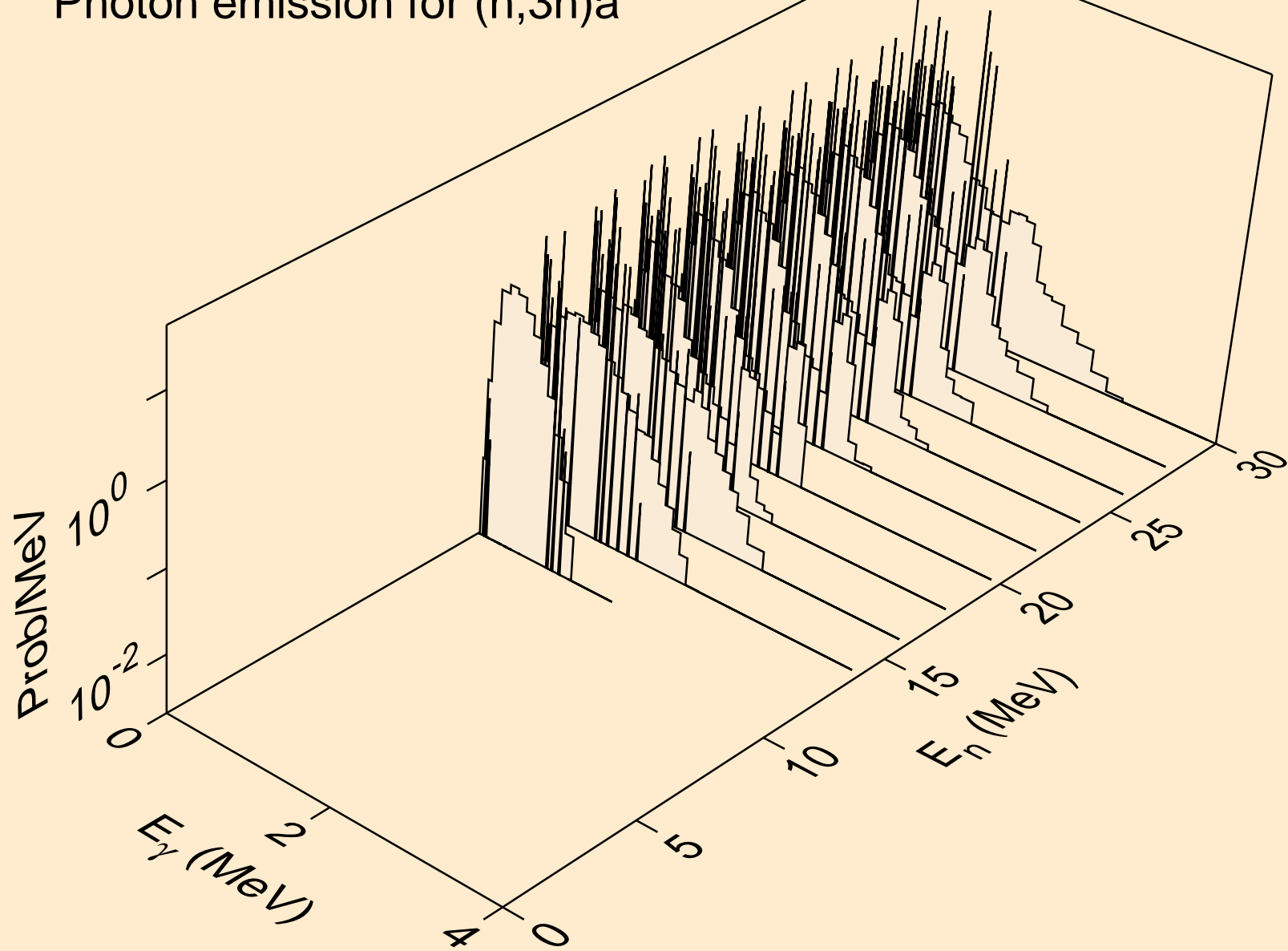
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



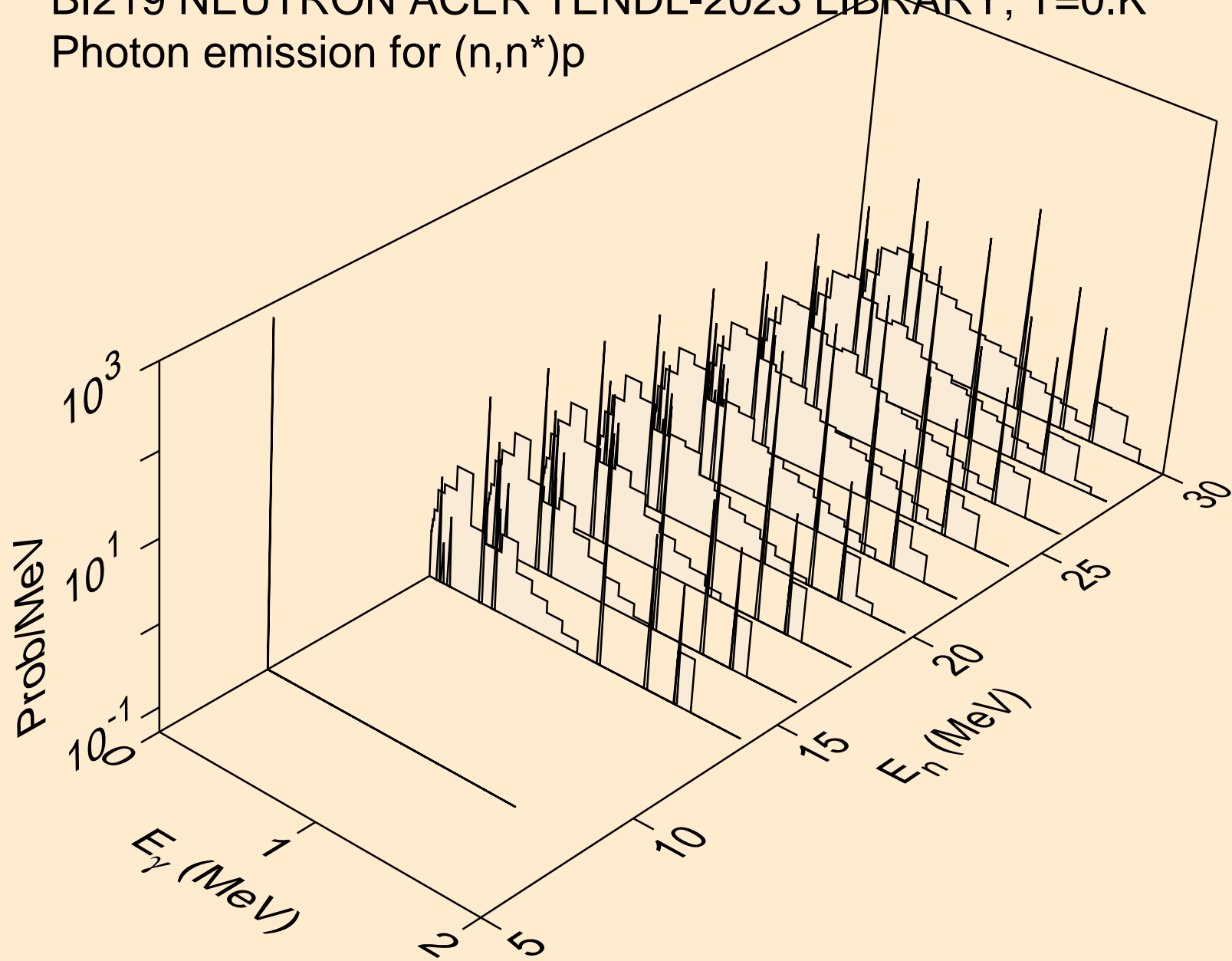
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Photon emission for (n,2n)a



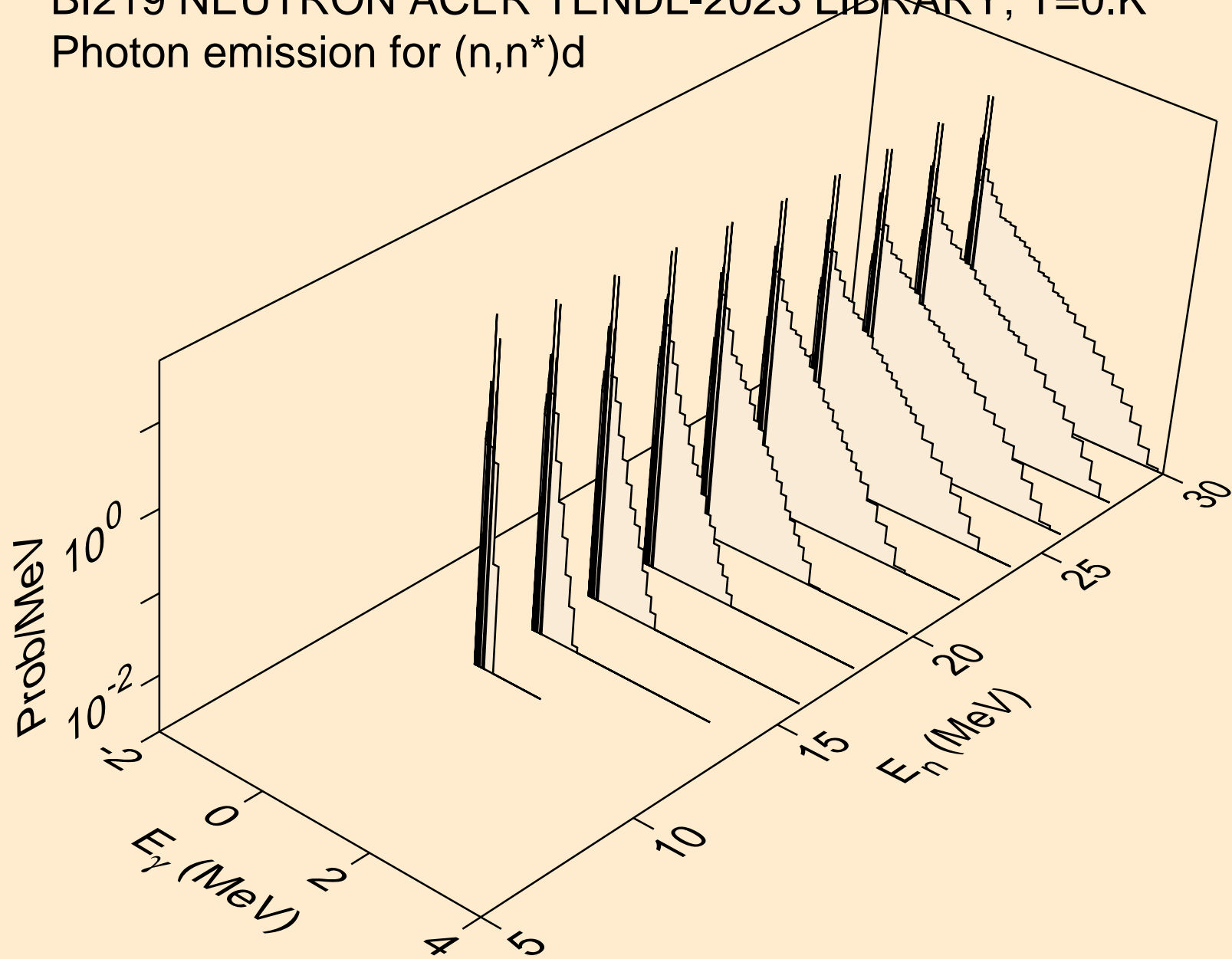
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



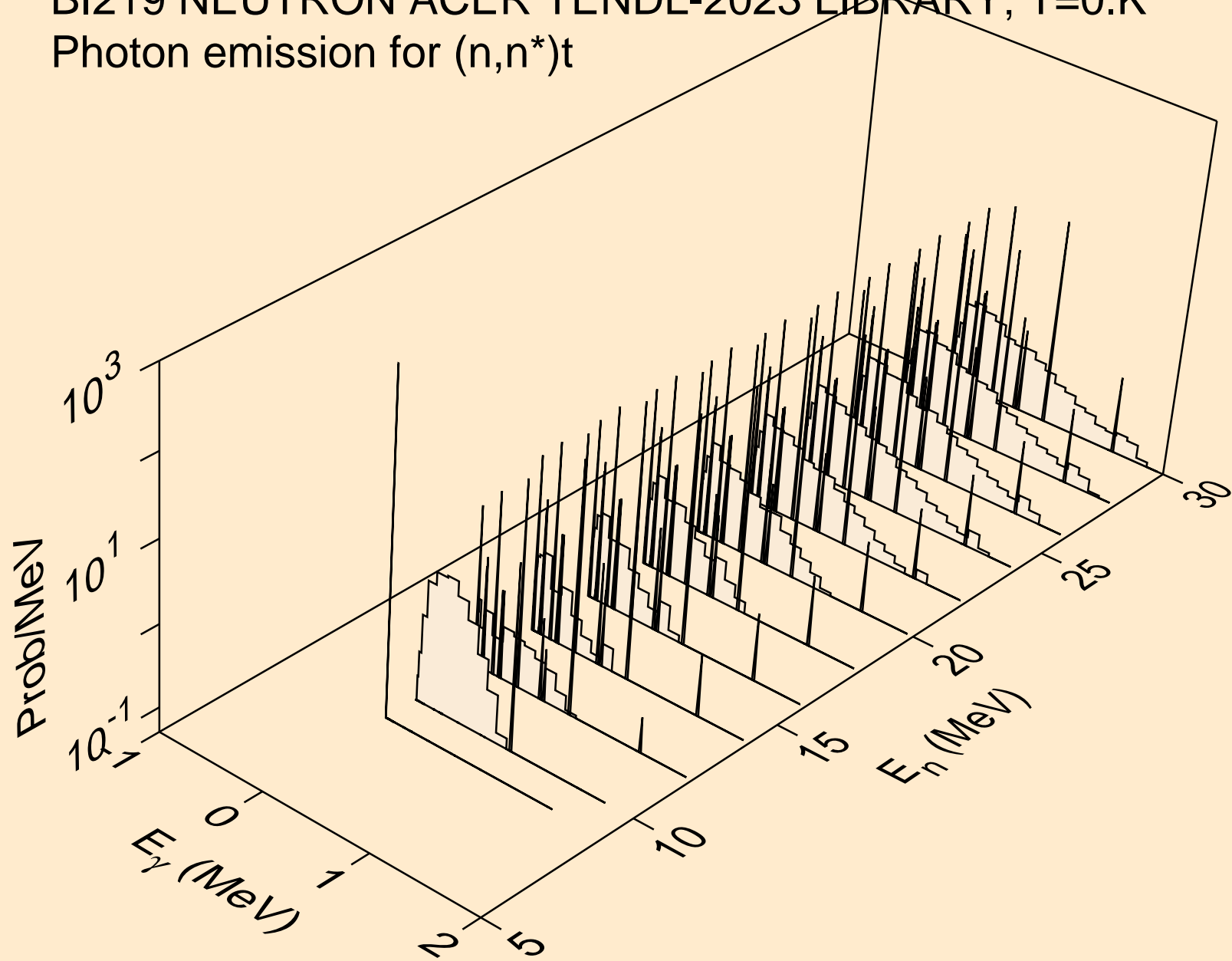
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



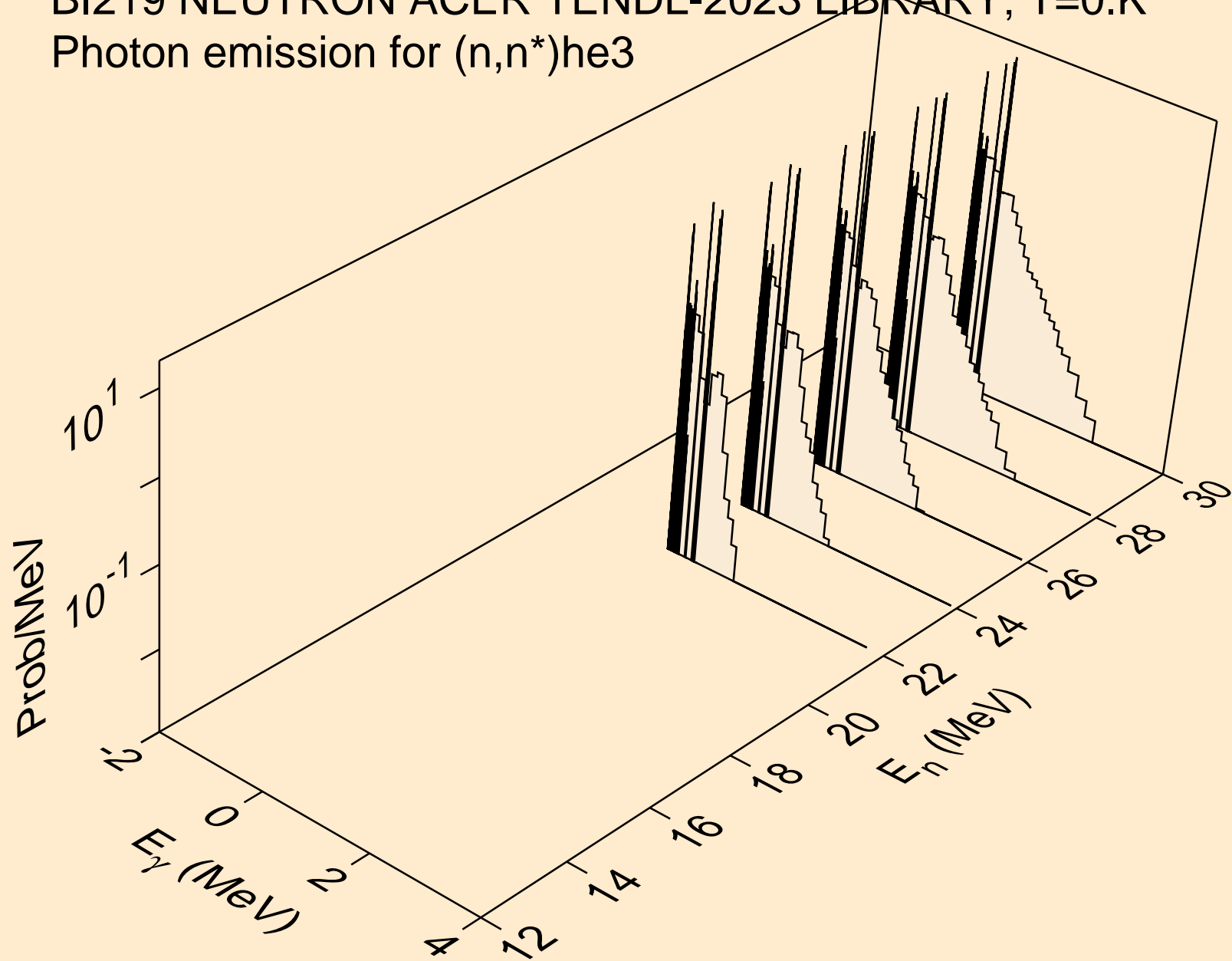
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



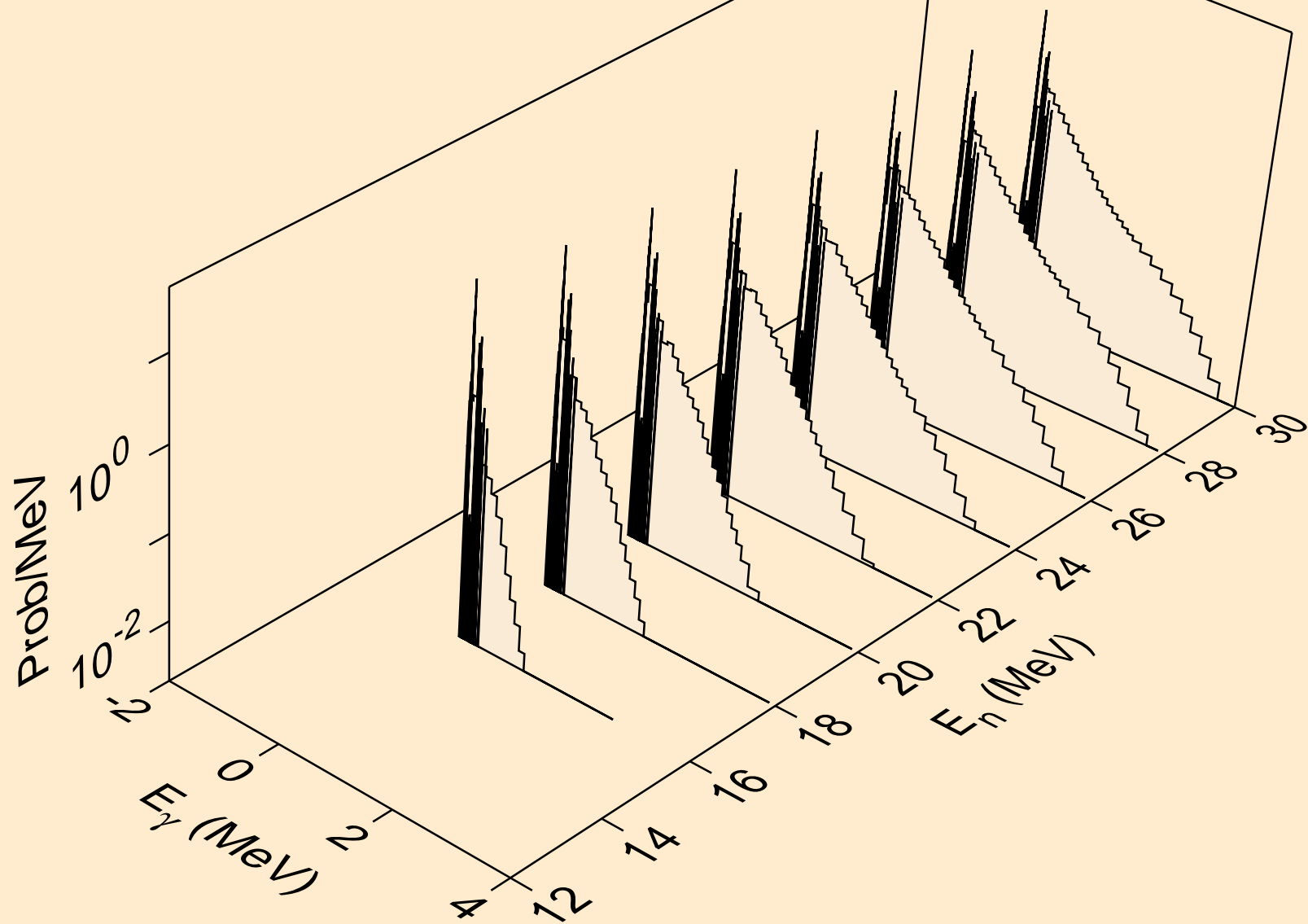
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Photon emission for (n,n\*)t



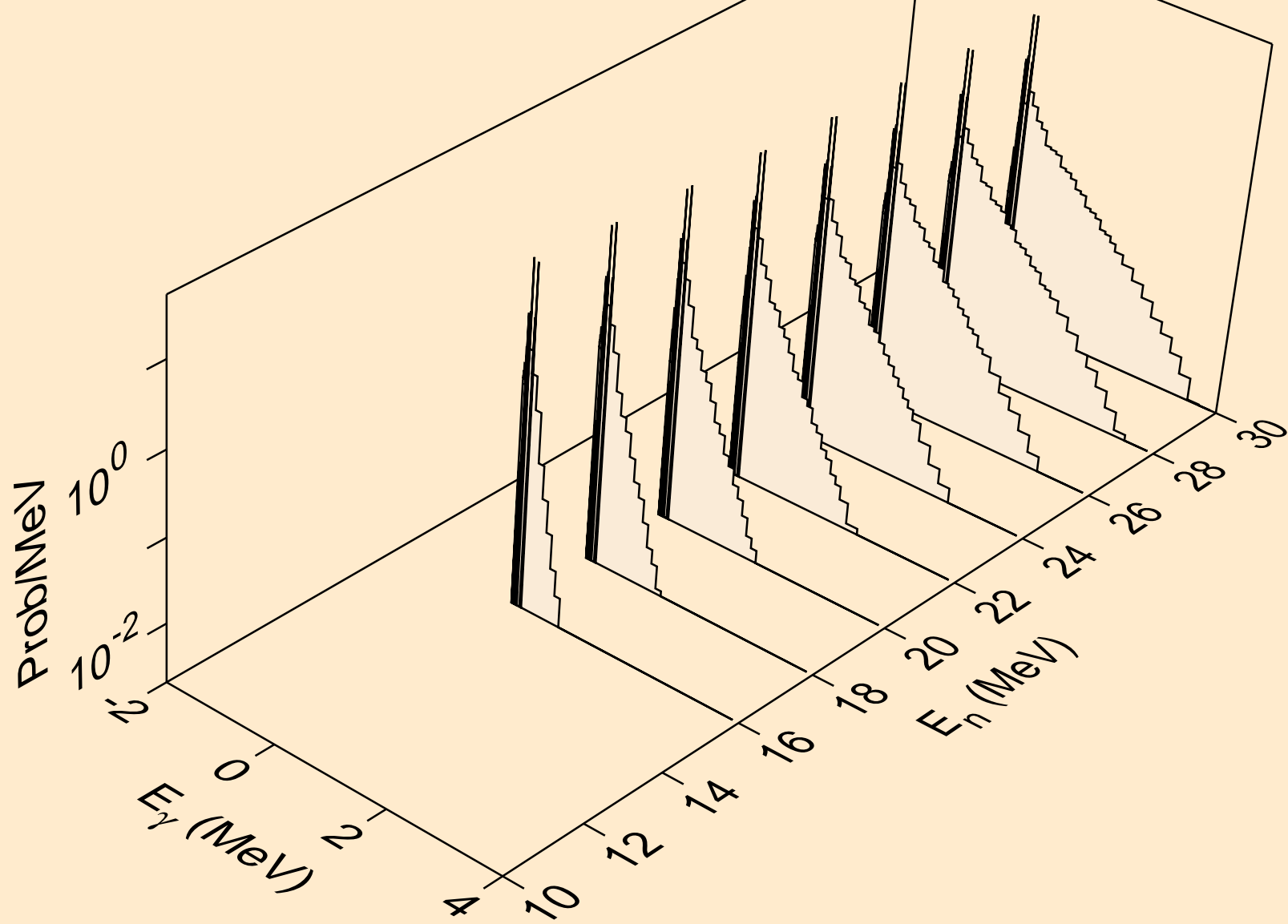
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



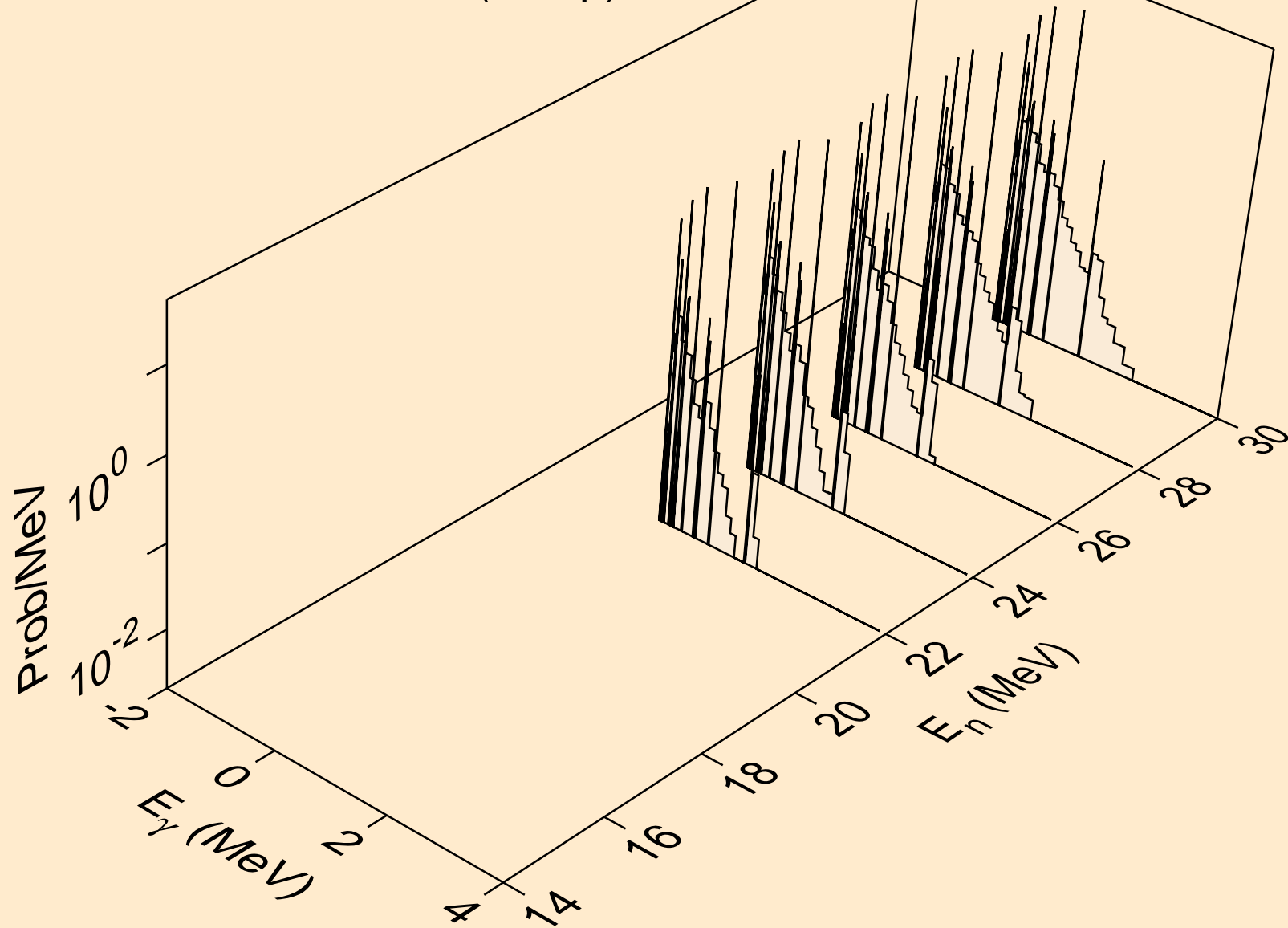
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Photon emission for (n,4n)



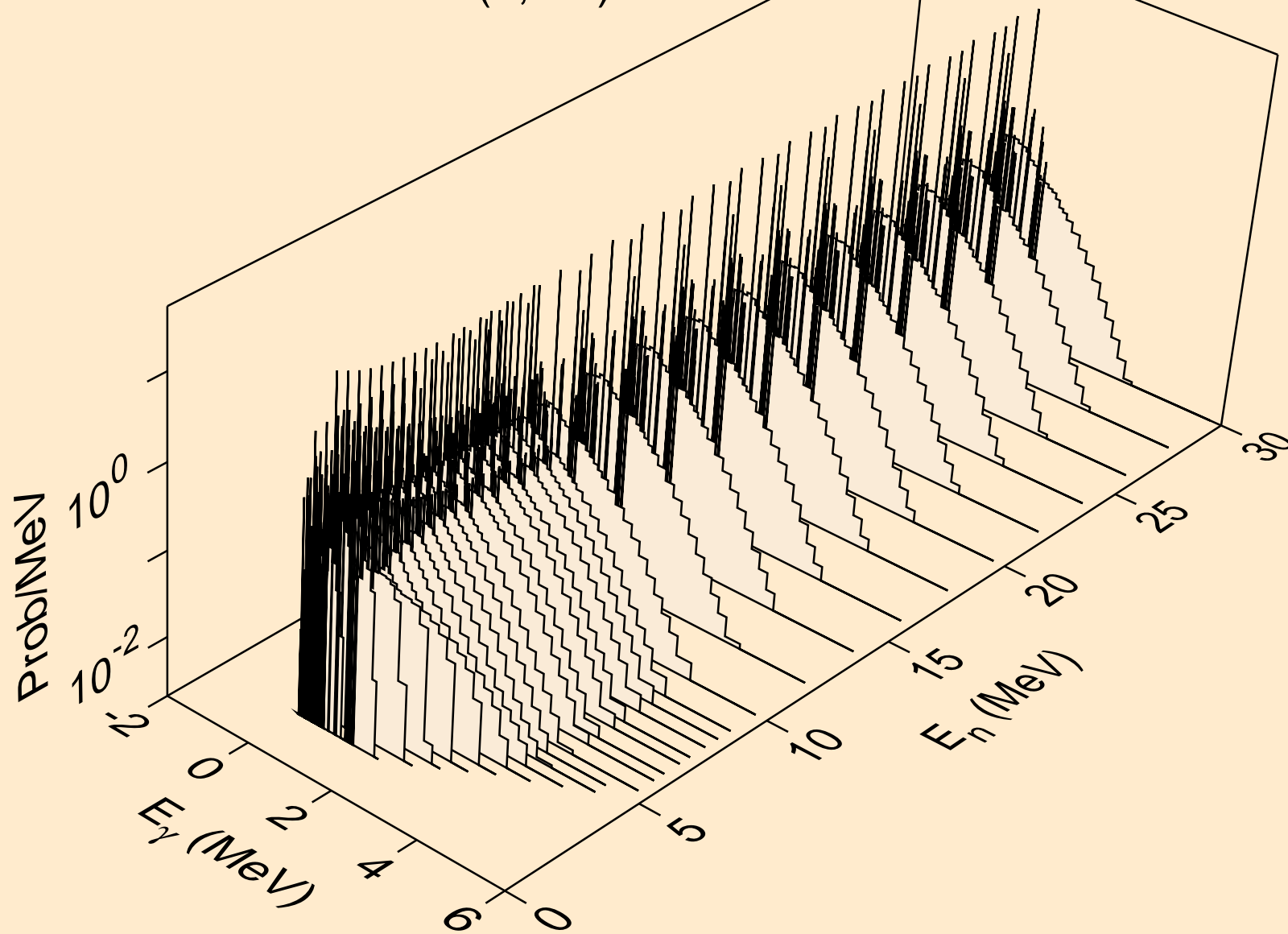
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Photon emission for (n,2np)



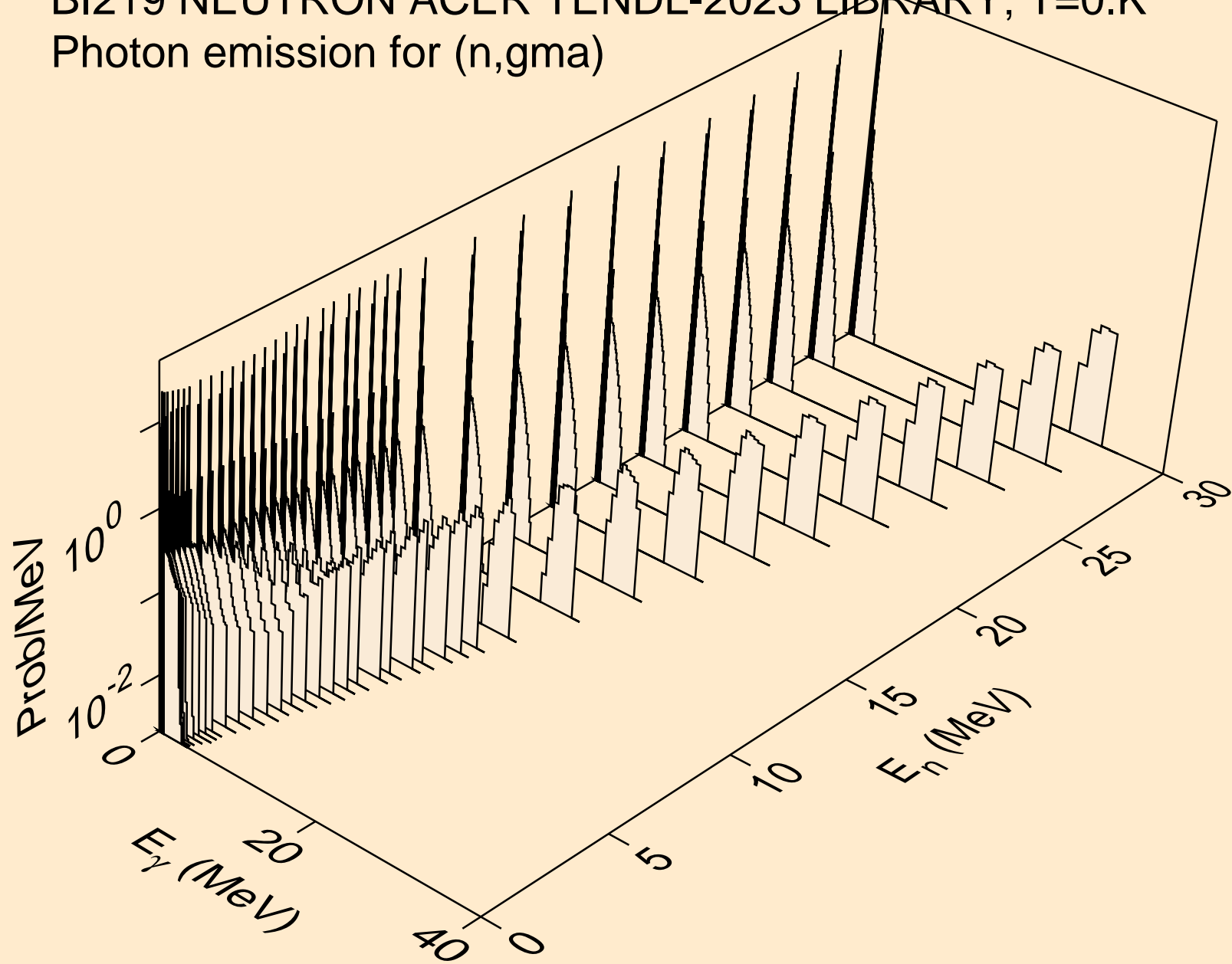
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Photon emission for (n,3np)



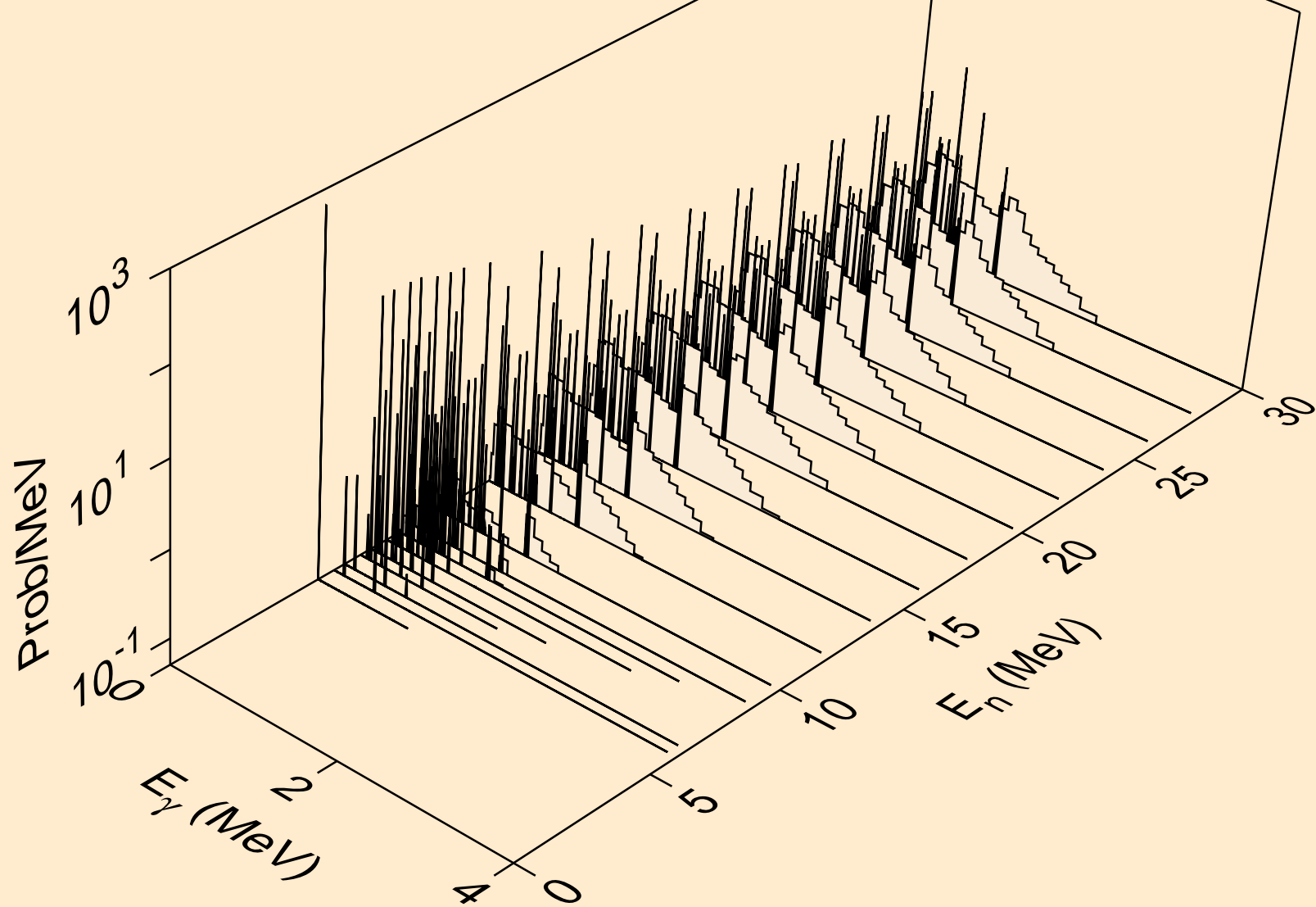
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Photon emission for (n,n\*c)



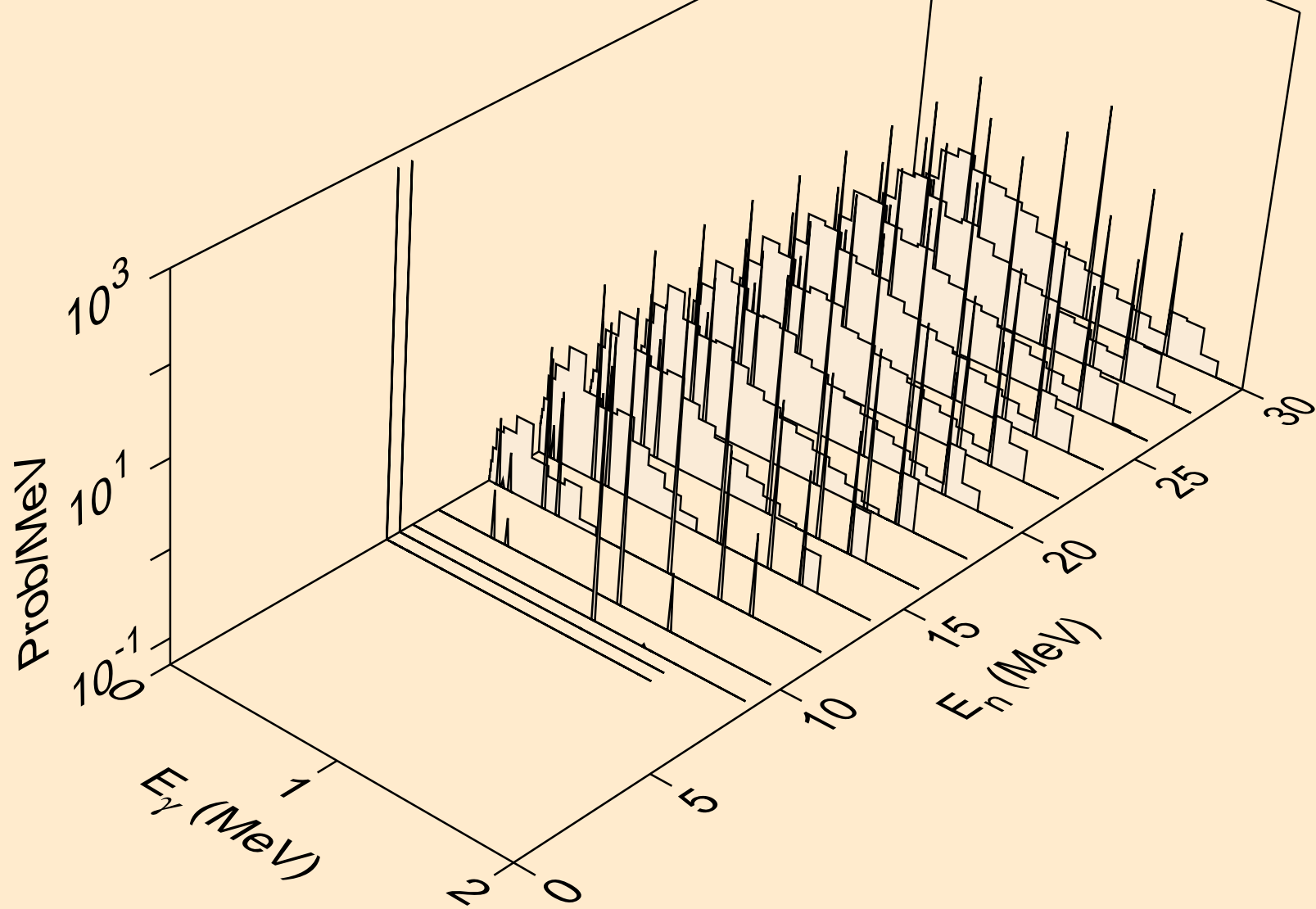
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Photon emission for (n,gma)



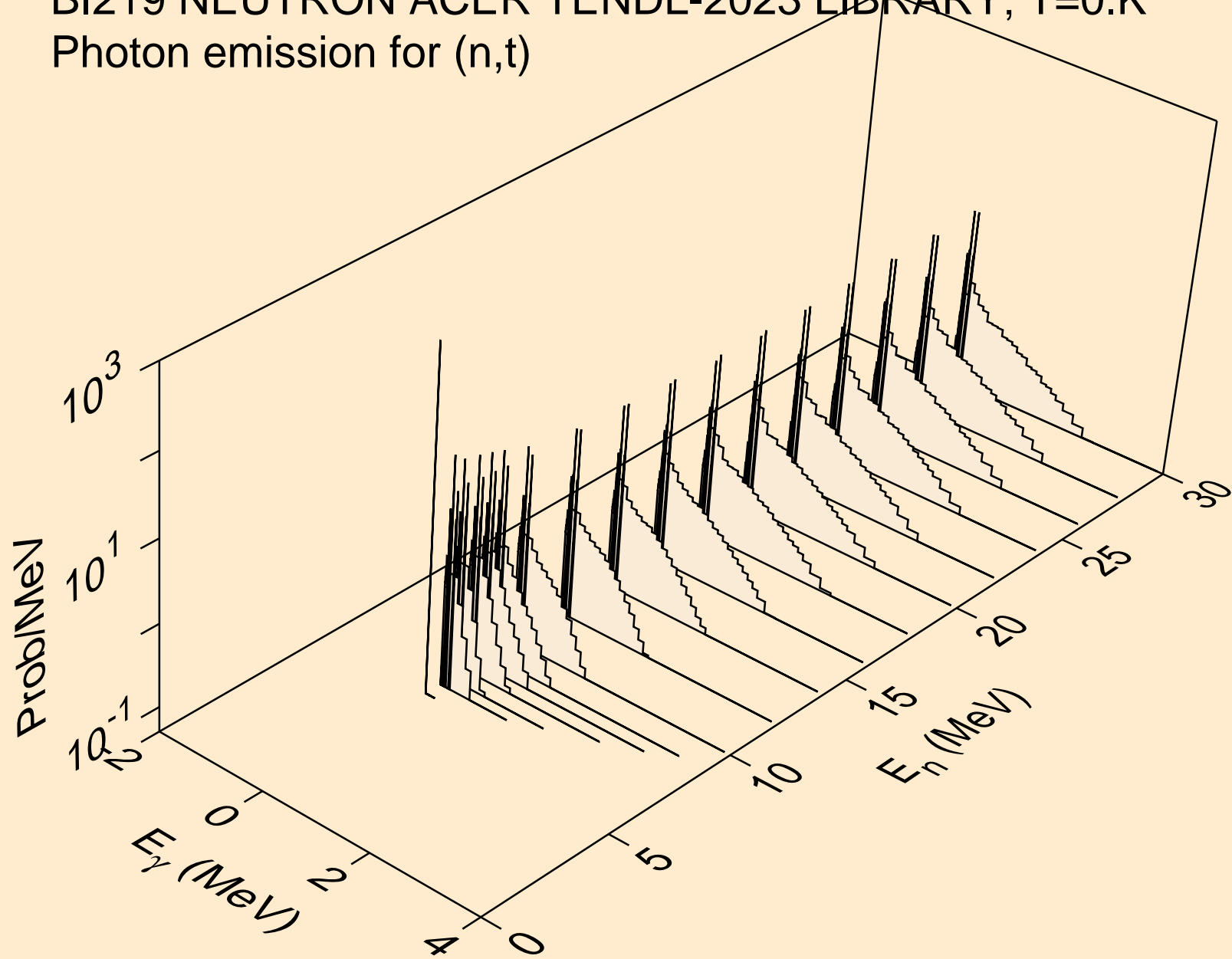
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



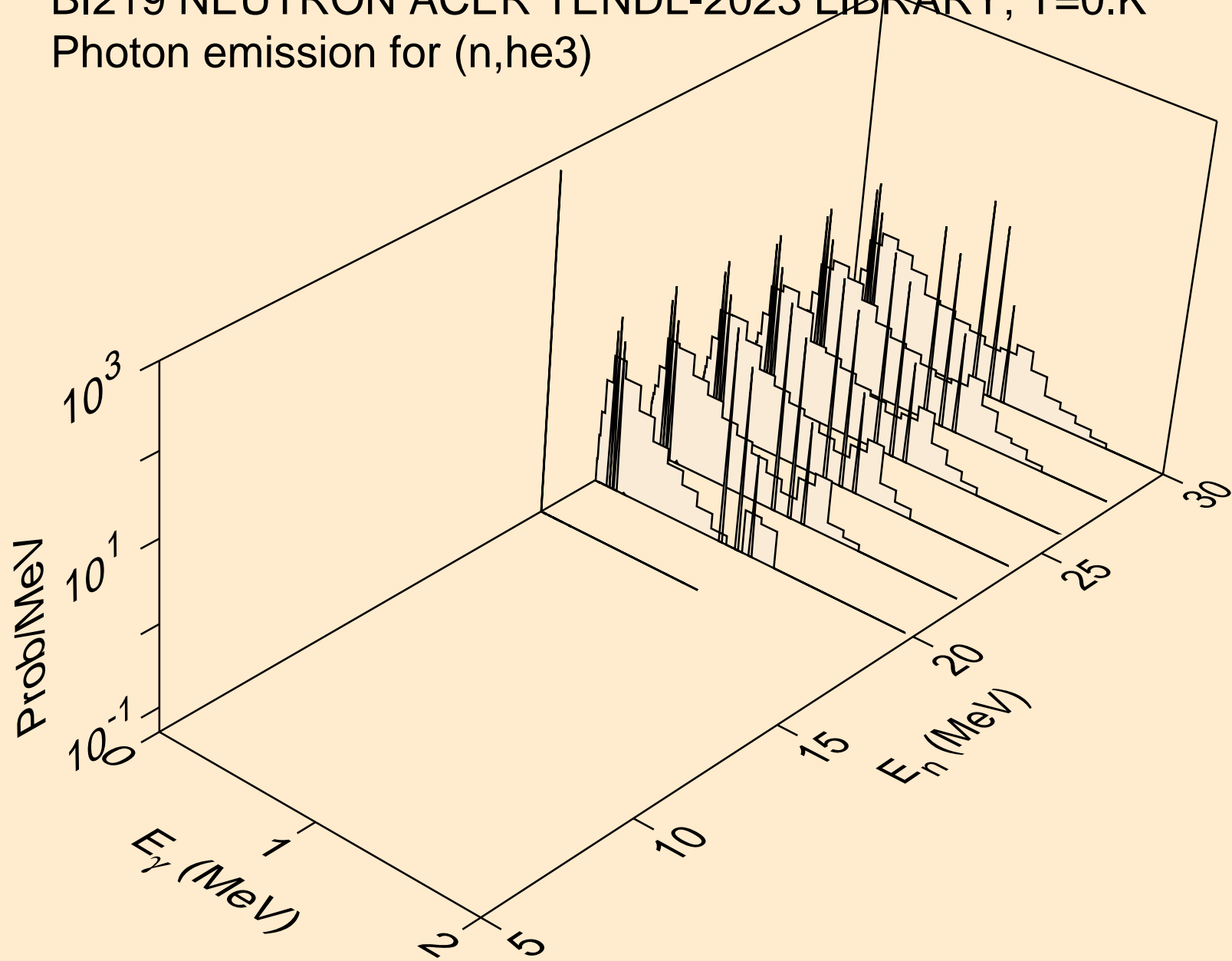
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



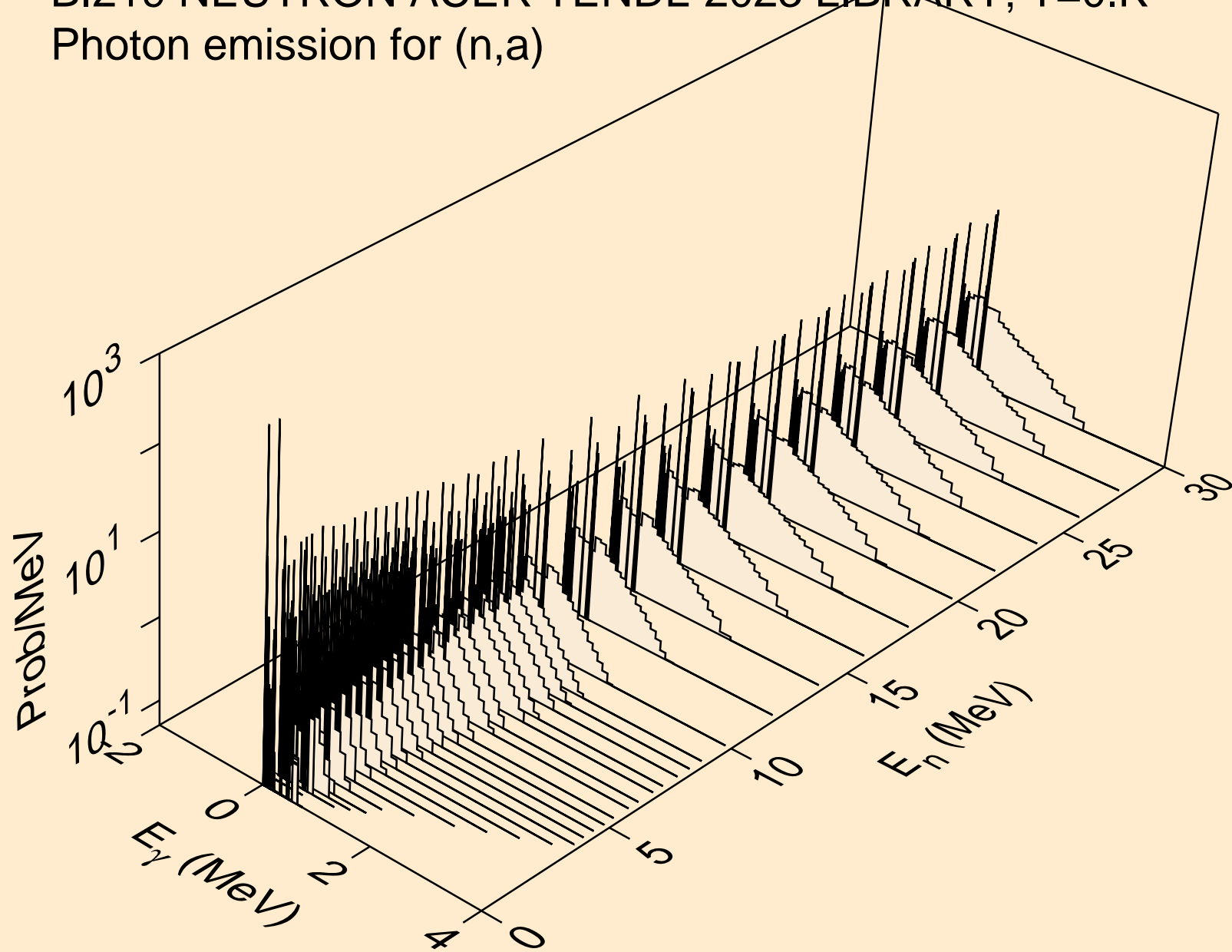
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Photon emission for (n,t)



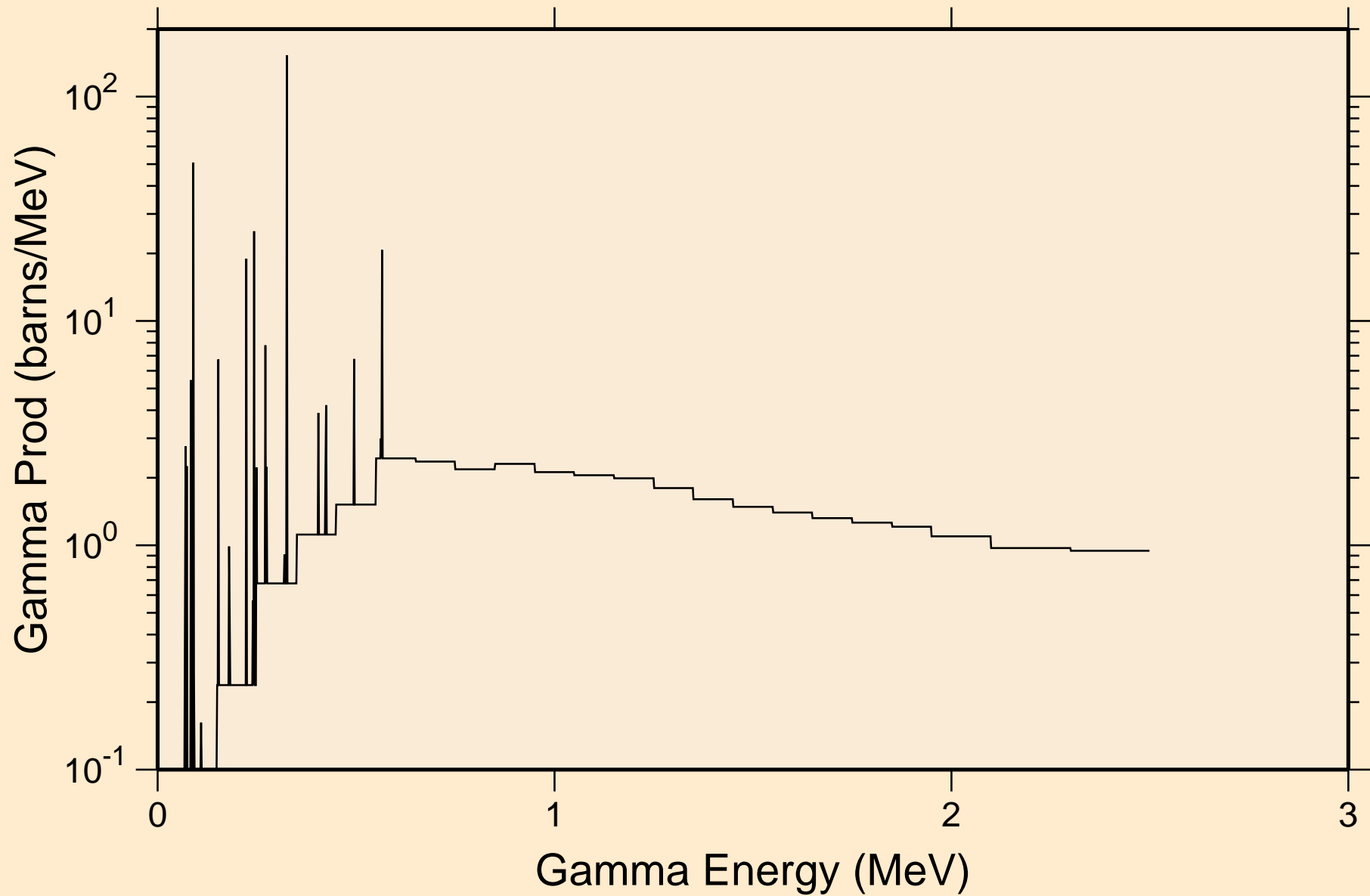
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Photon emission for (n,he3)



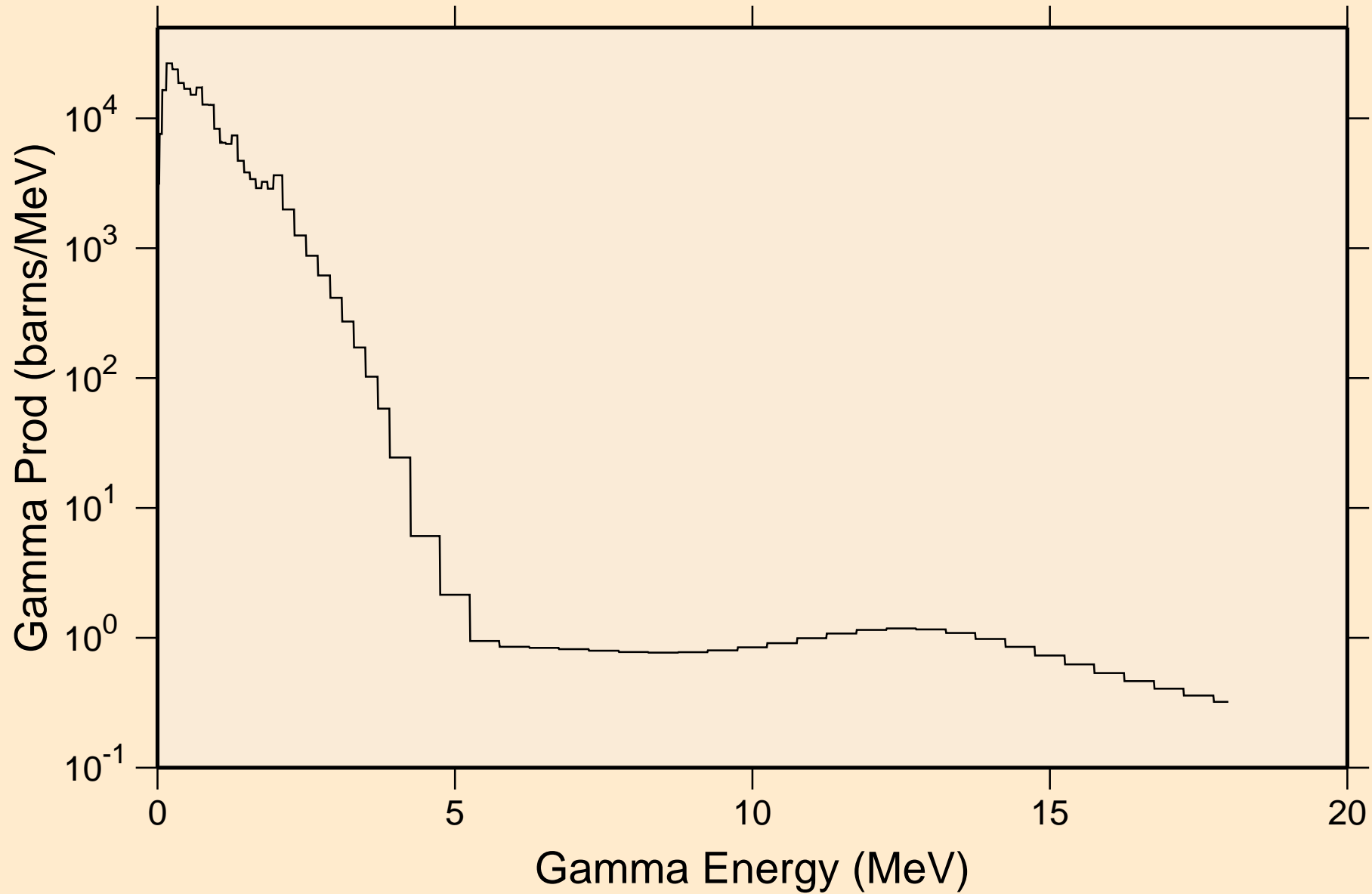
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

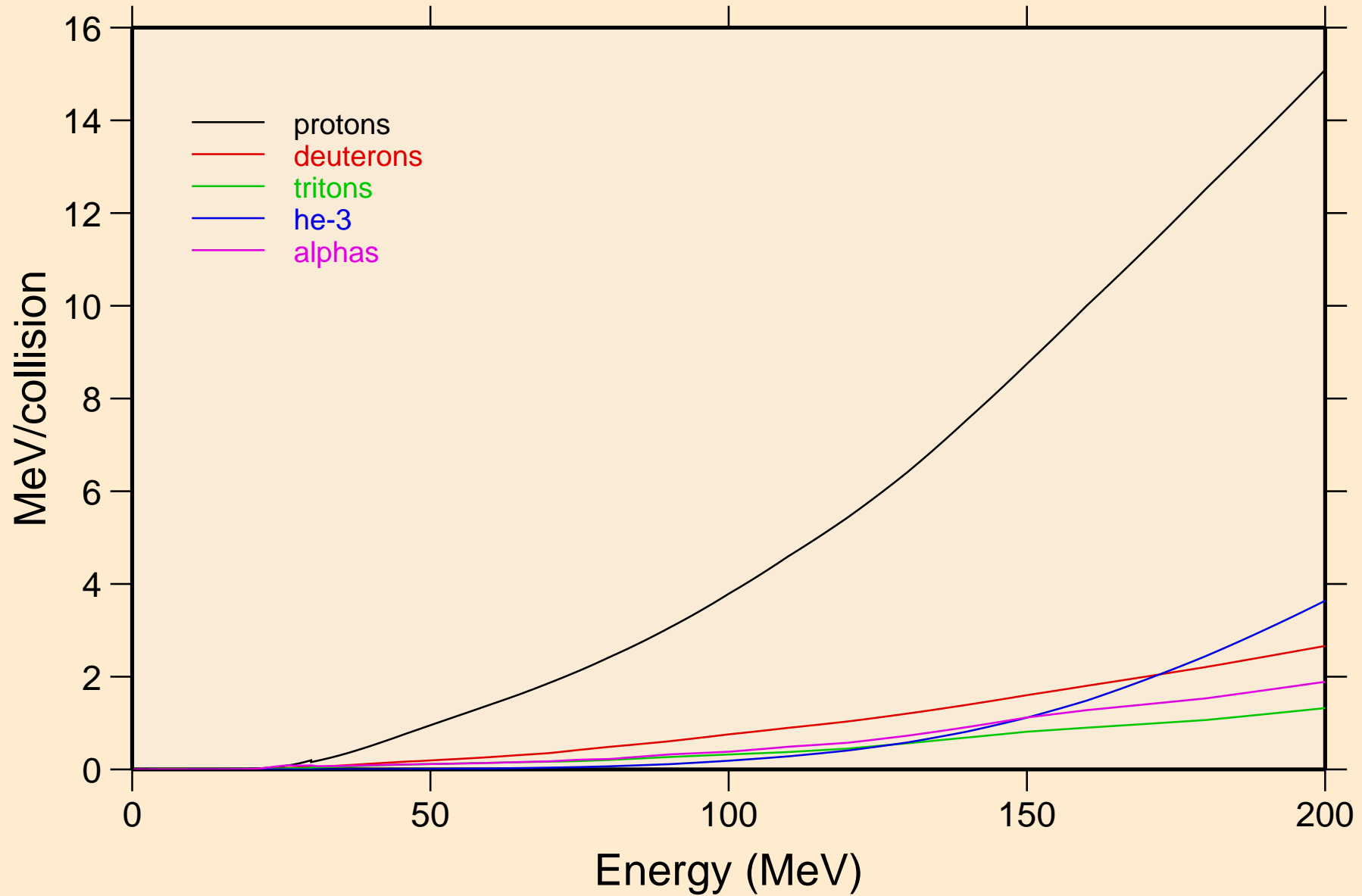


BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

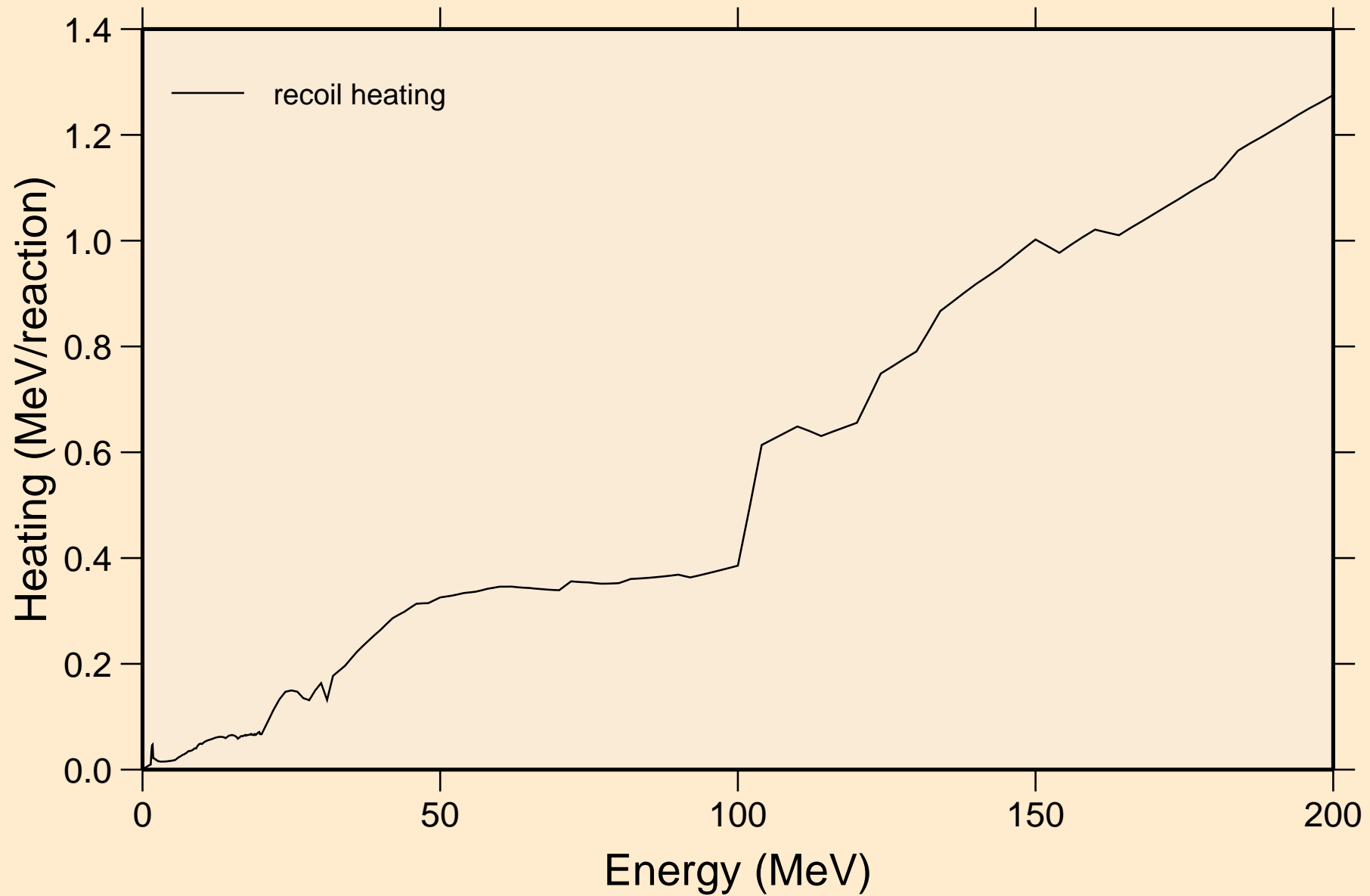


# BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

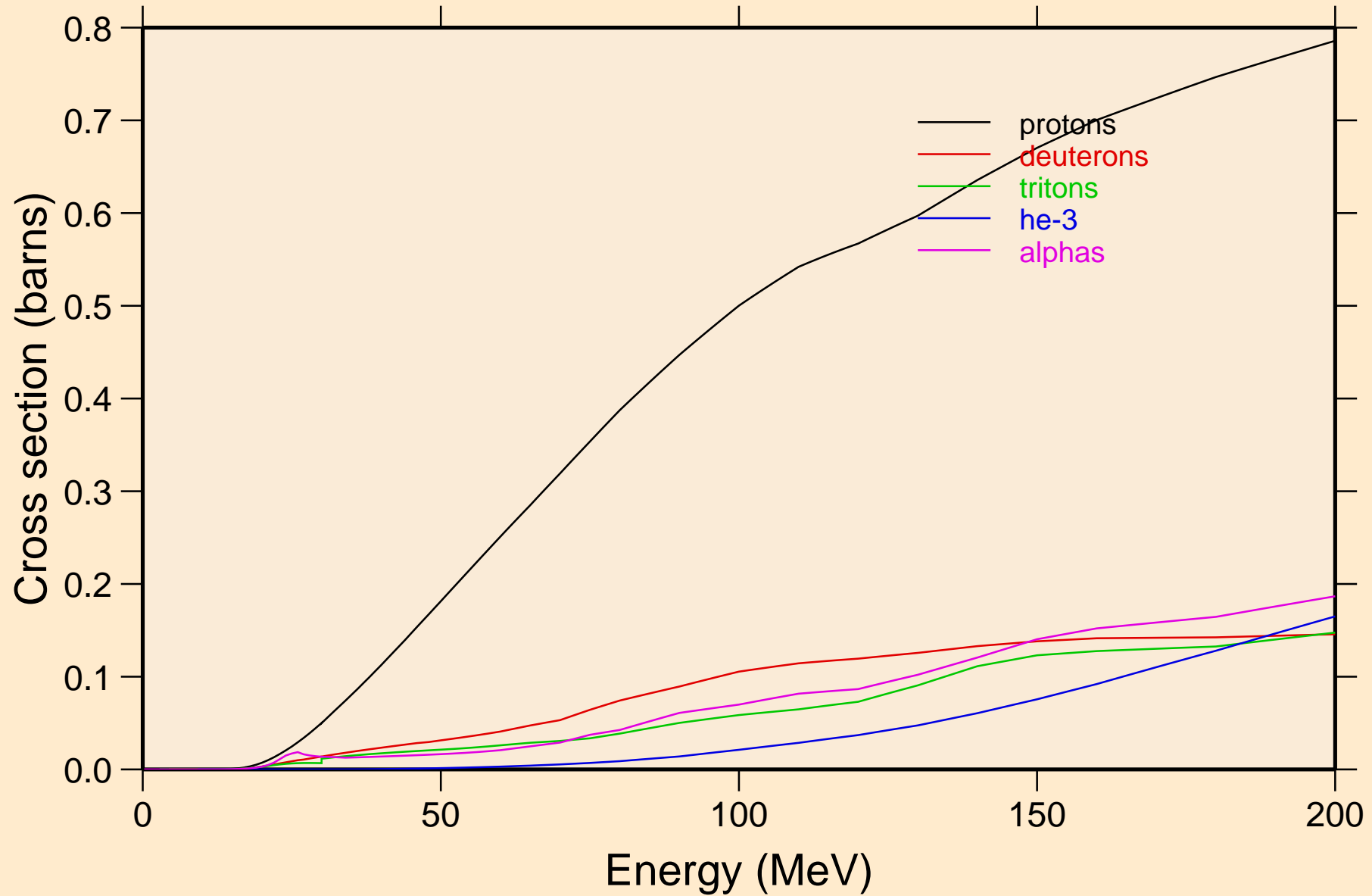
## Particle heating contributions



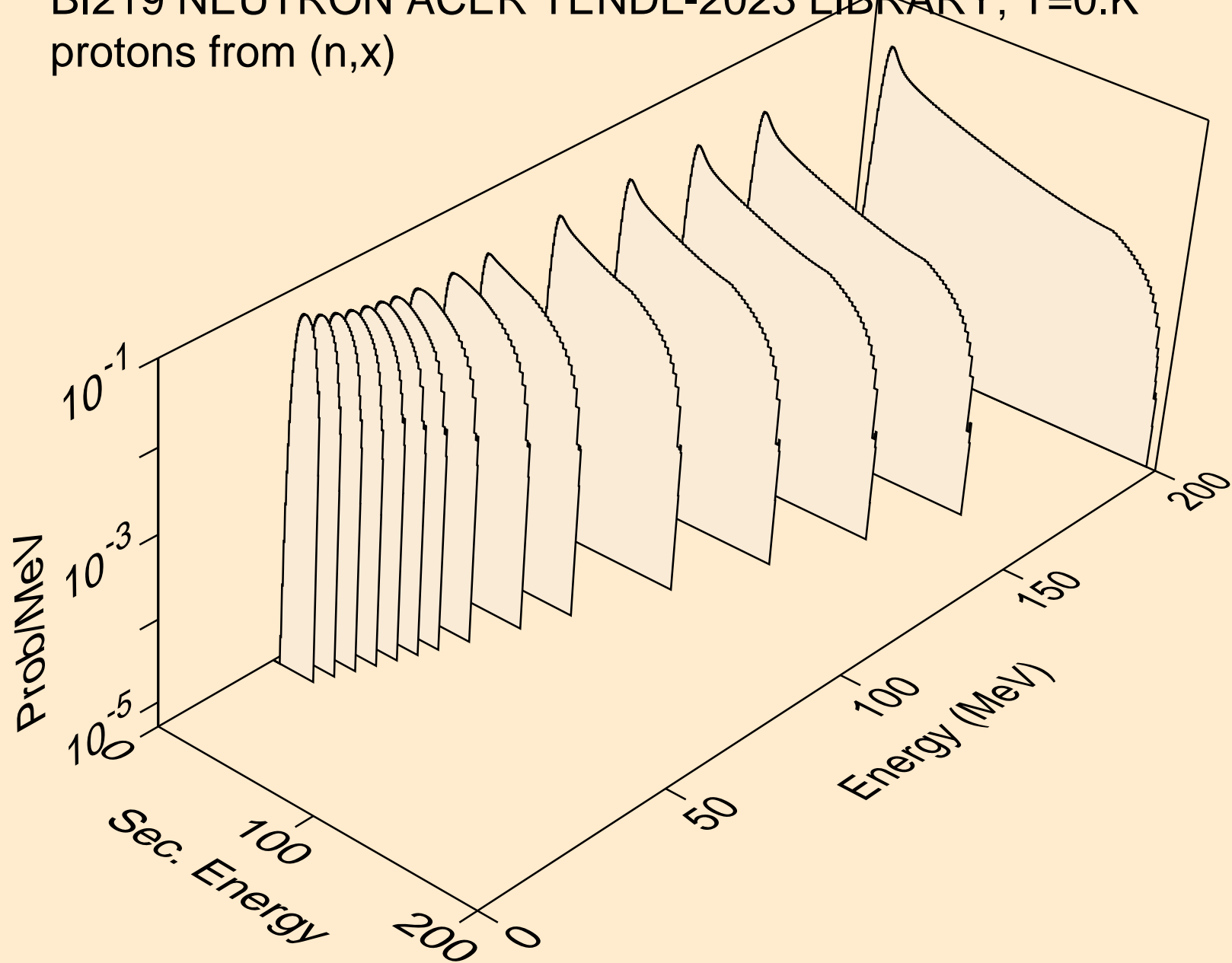
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Recoil Heating



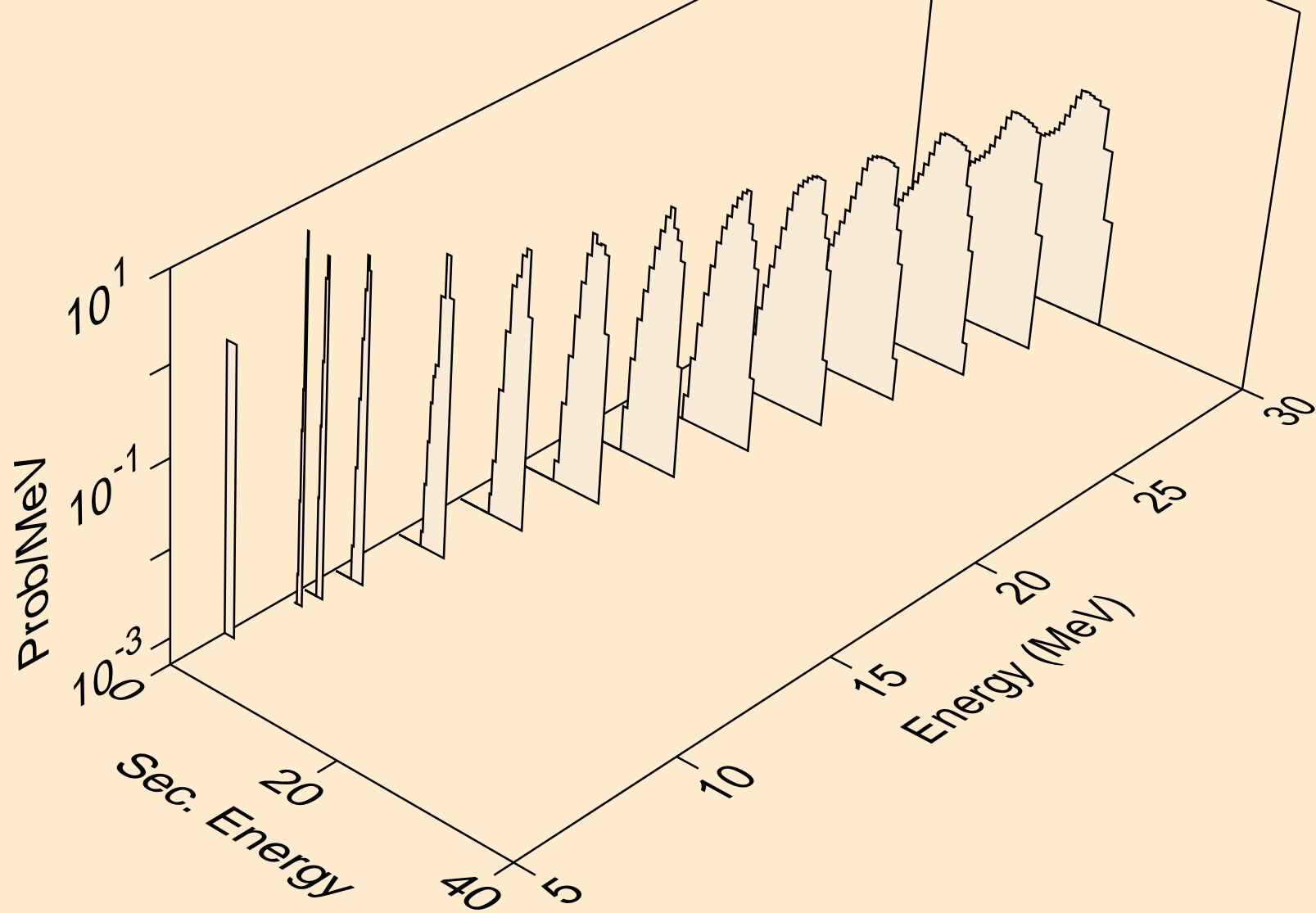
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



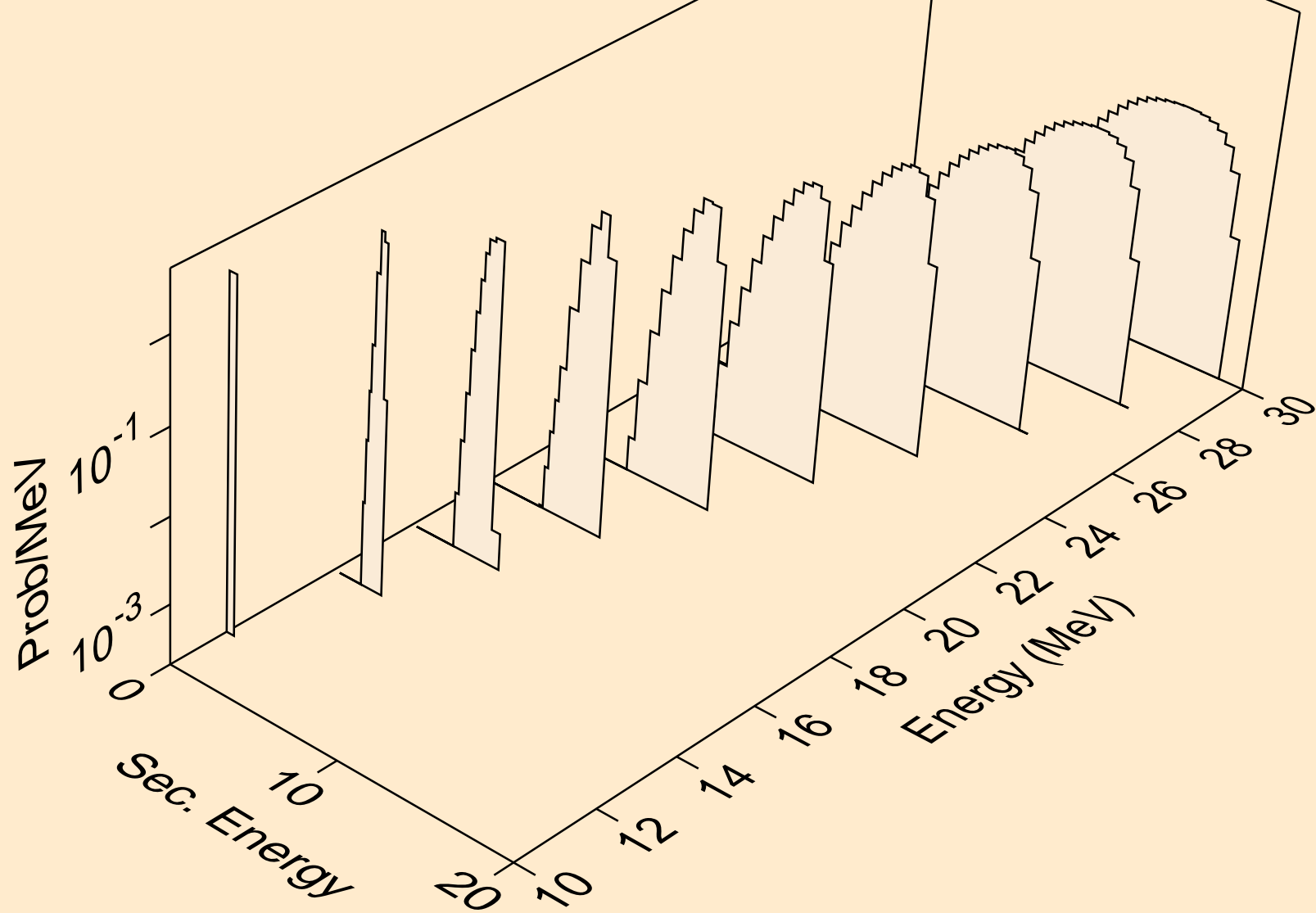
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protons from (n,x)



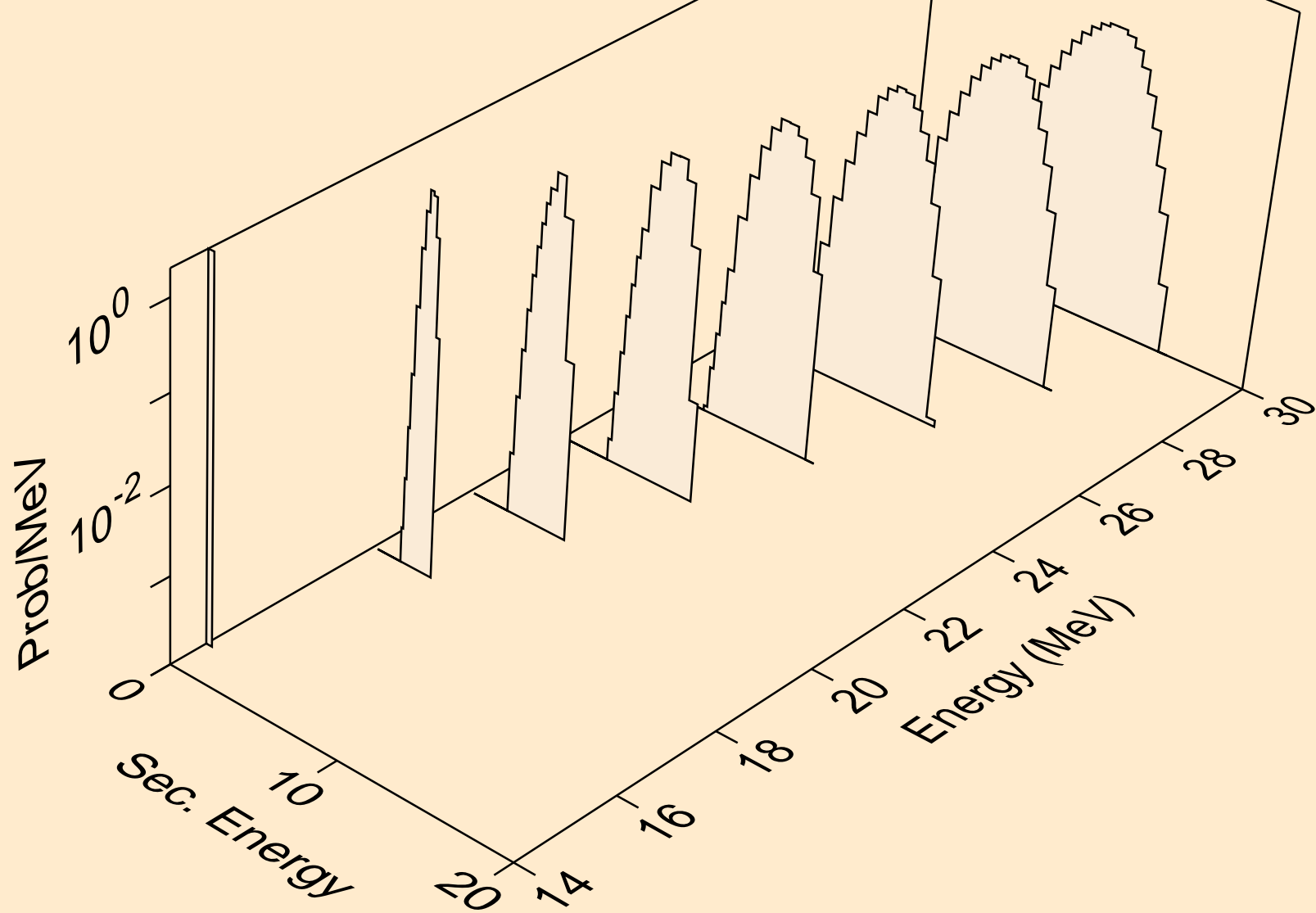
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protons from (n,n\*)p



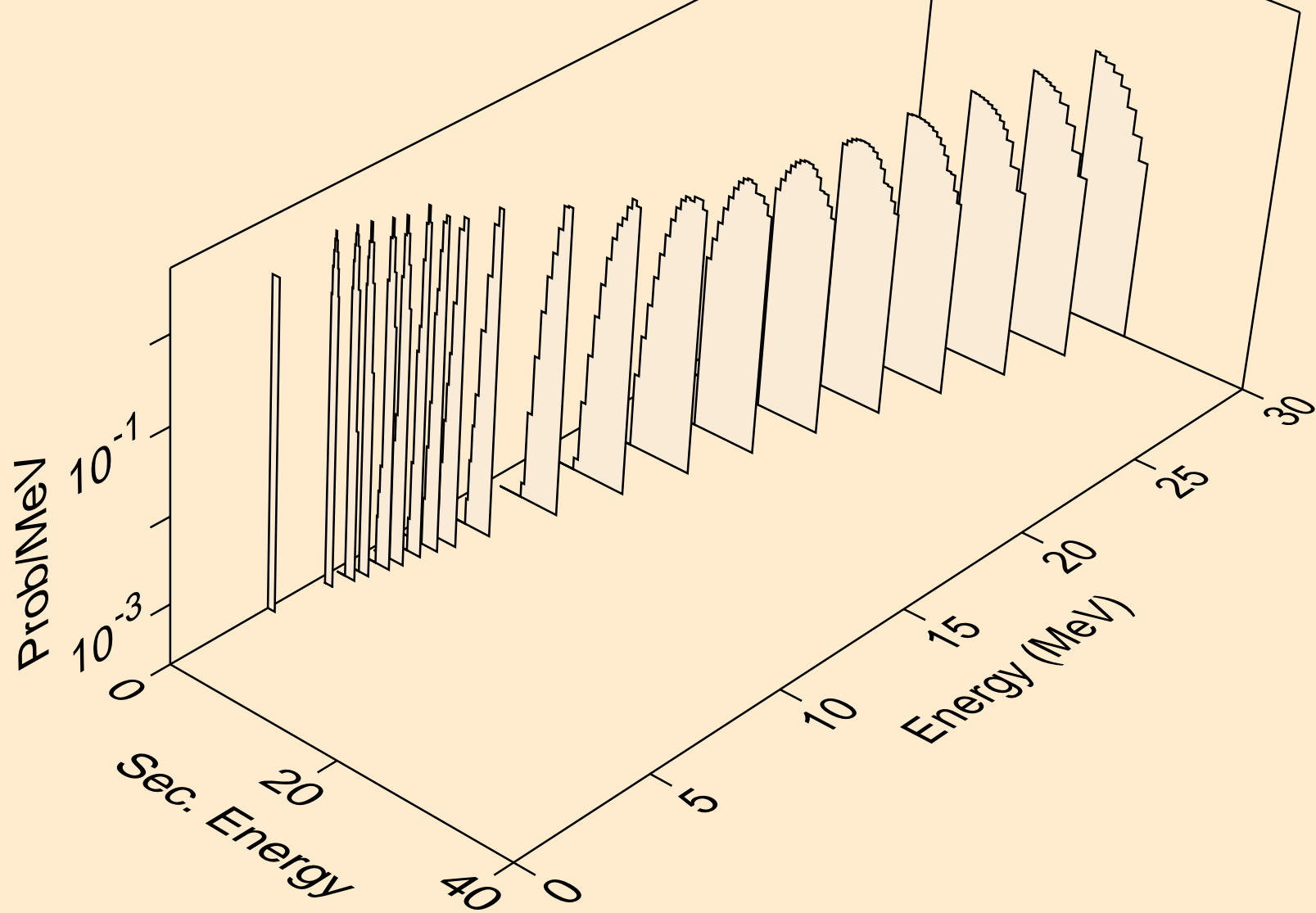
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protons from (n,2np)



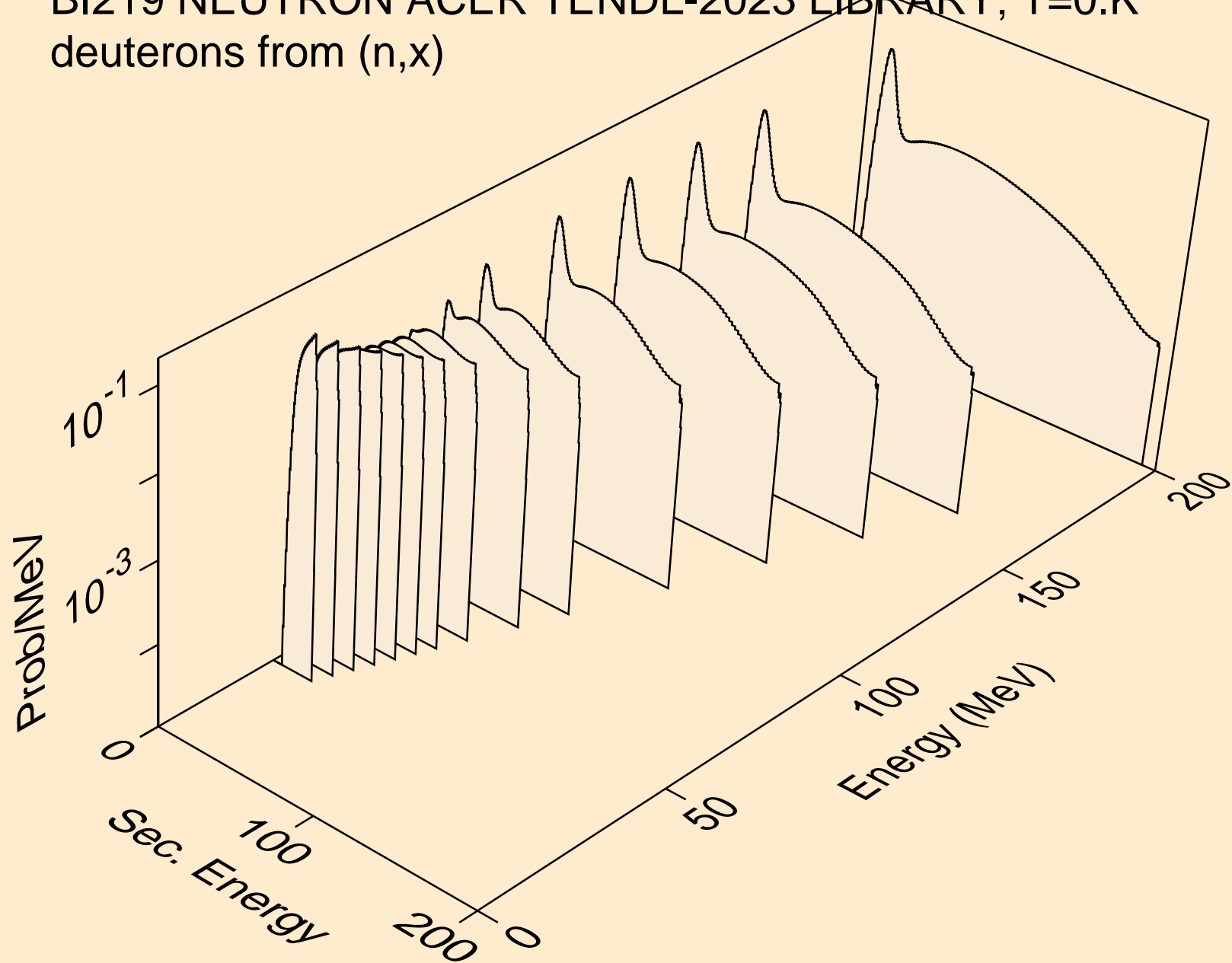
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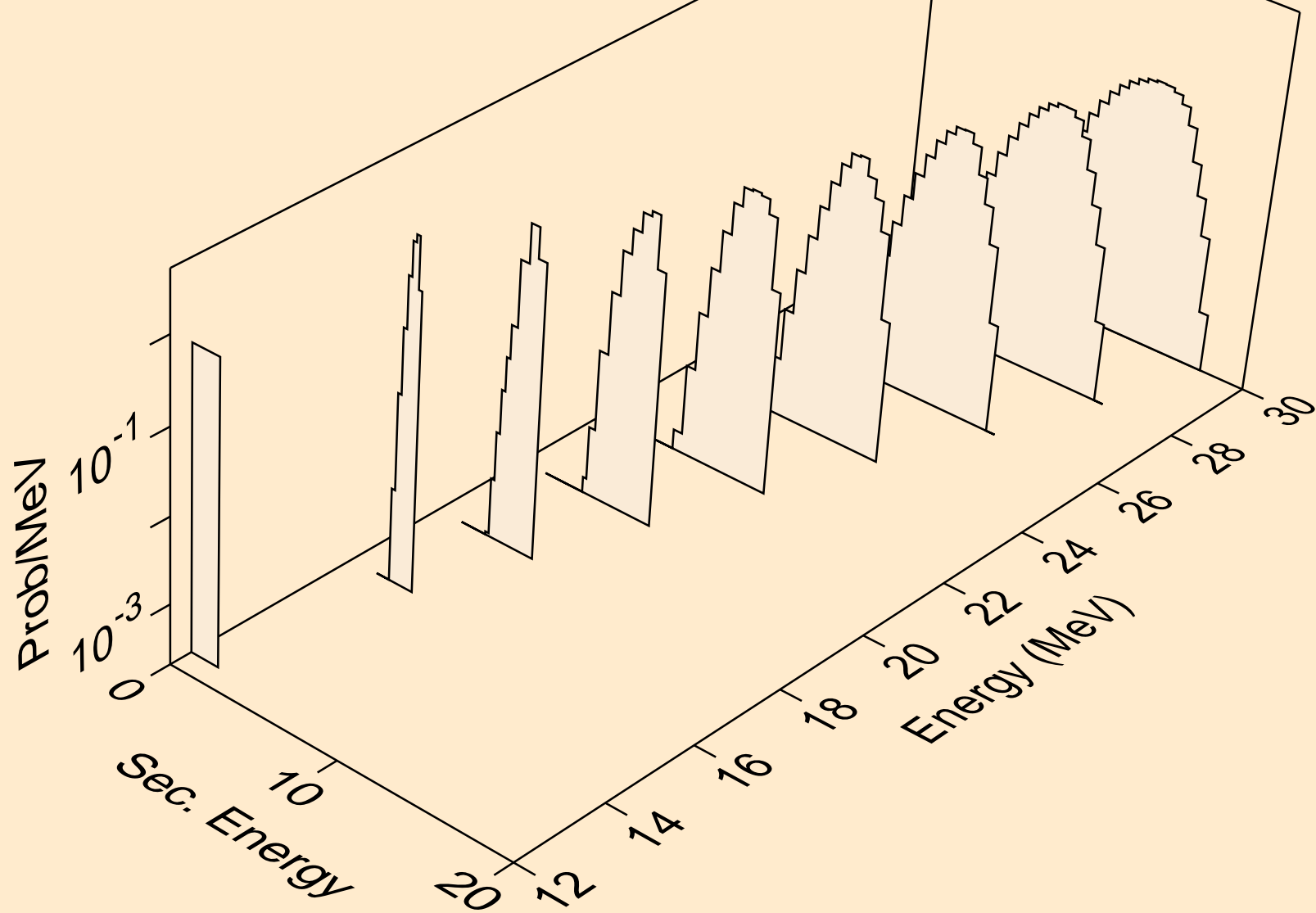
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protons from (n,p)



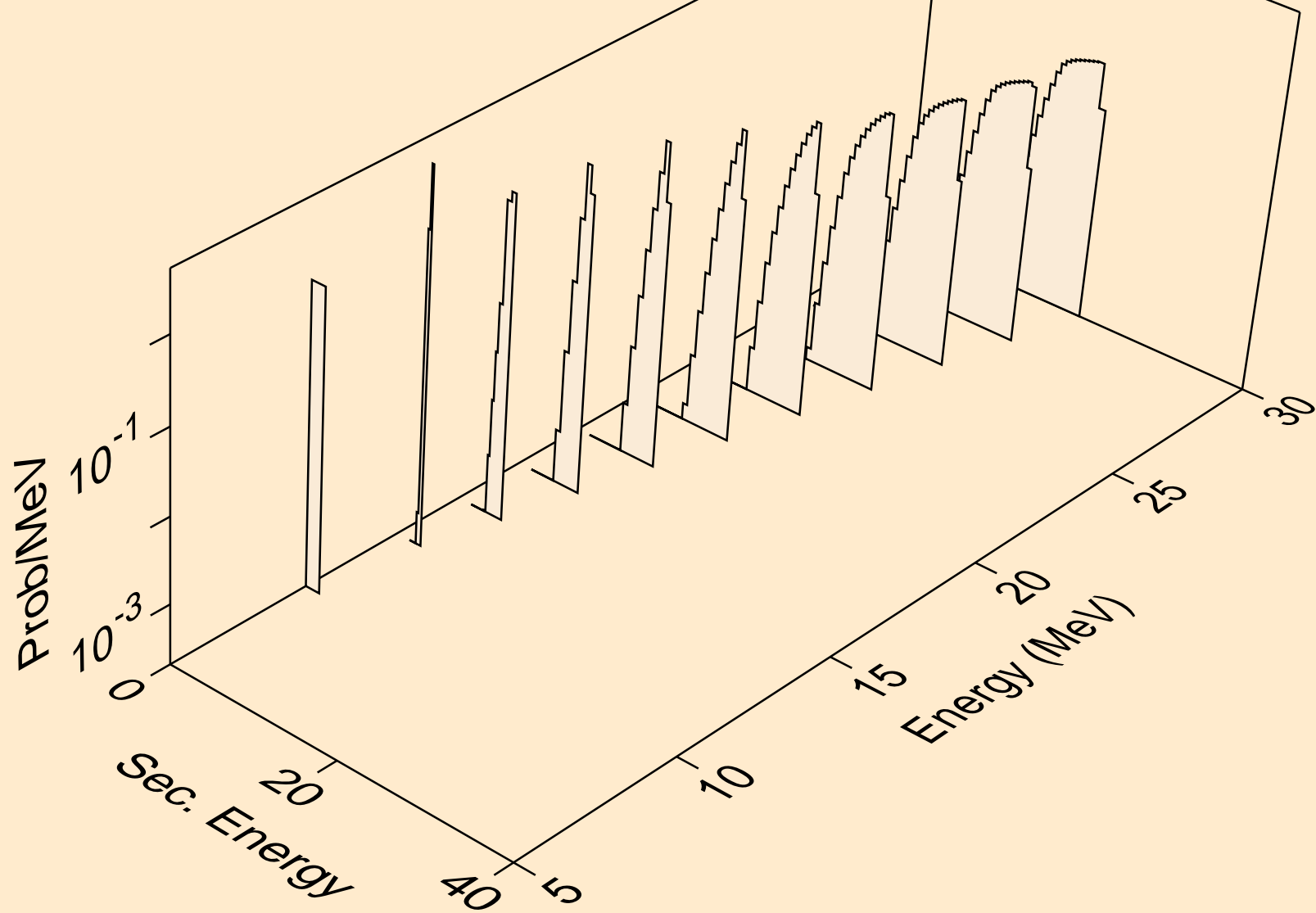
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deuterons from (n,x)



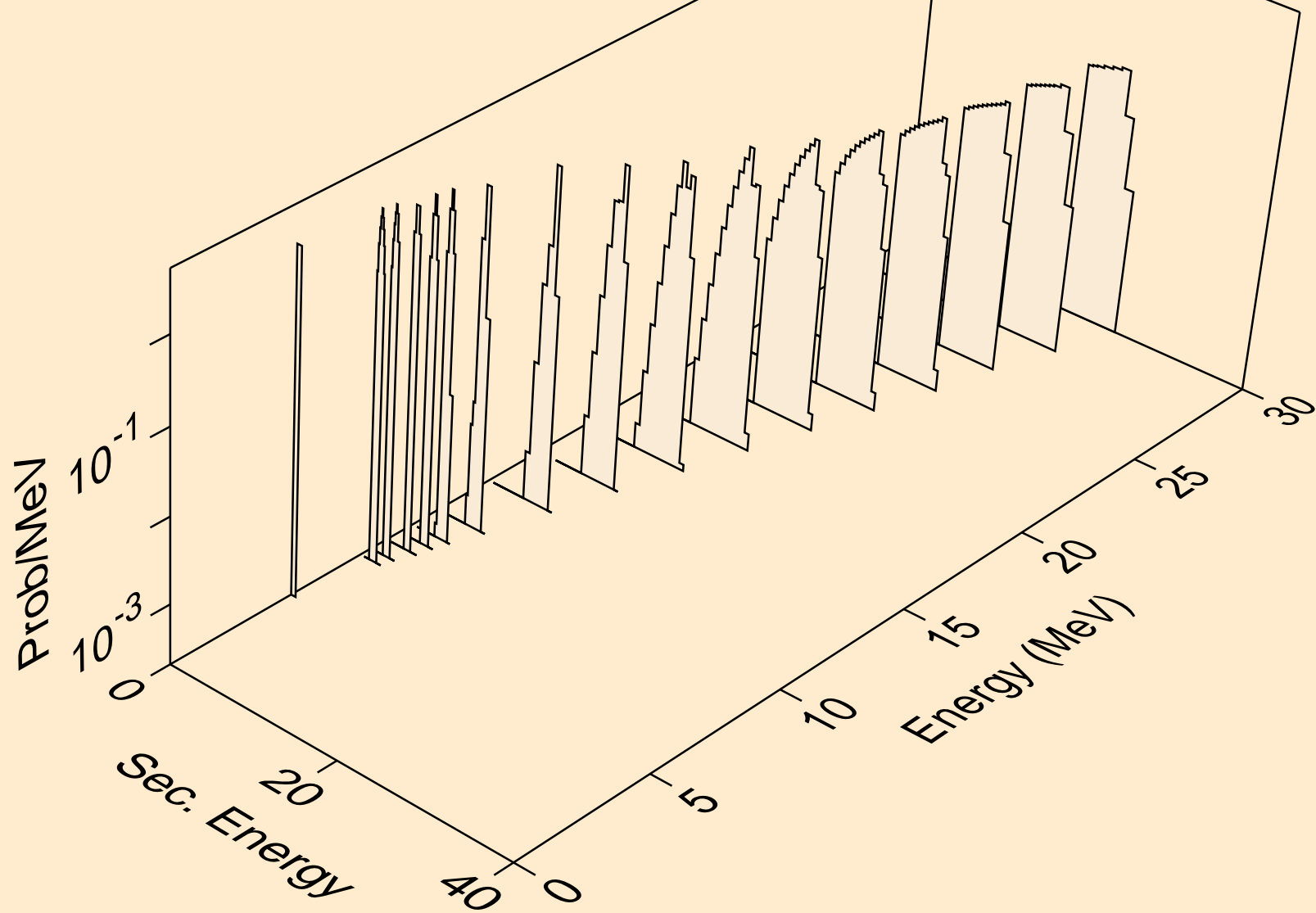
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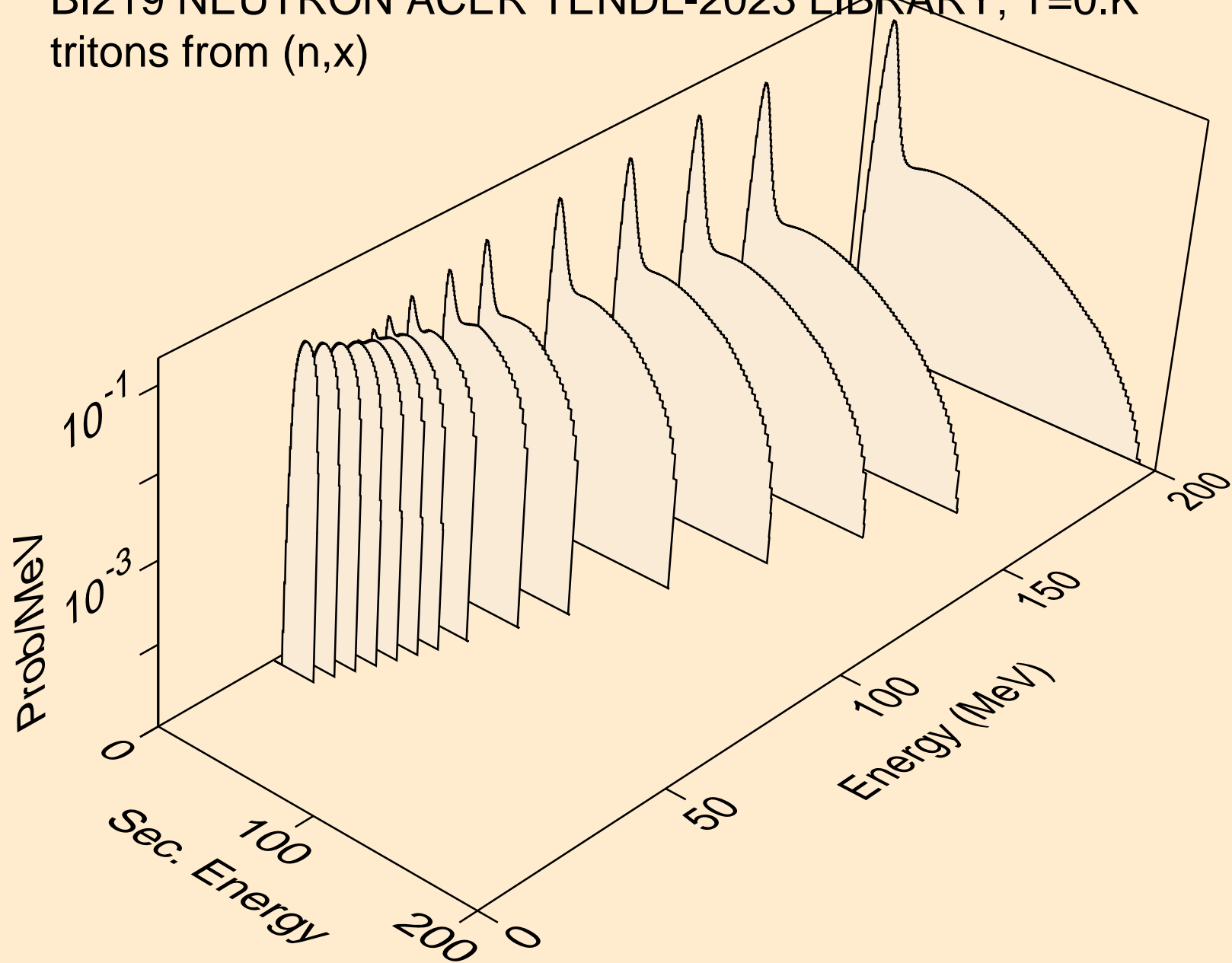
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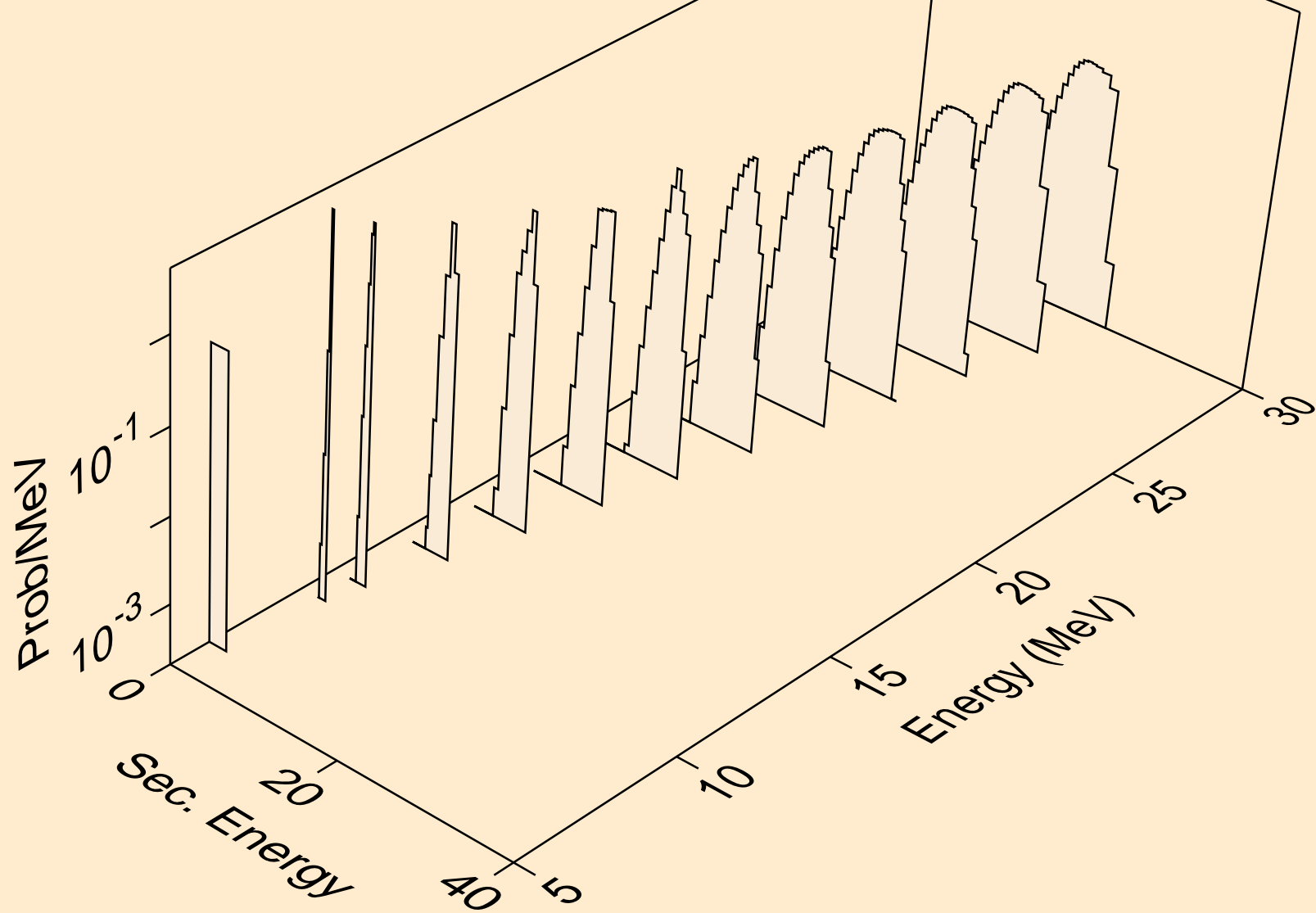
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deuterons from (n,d)



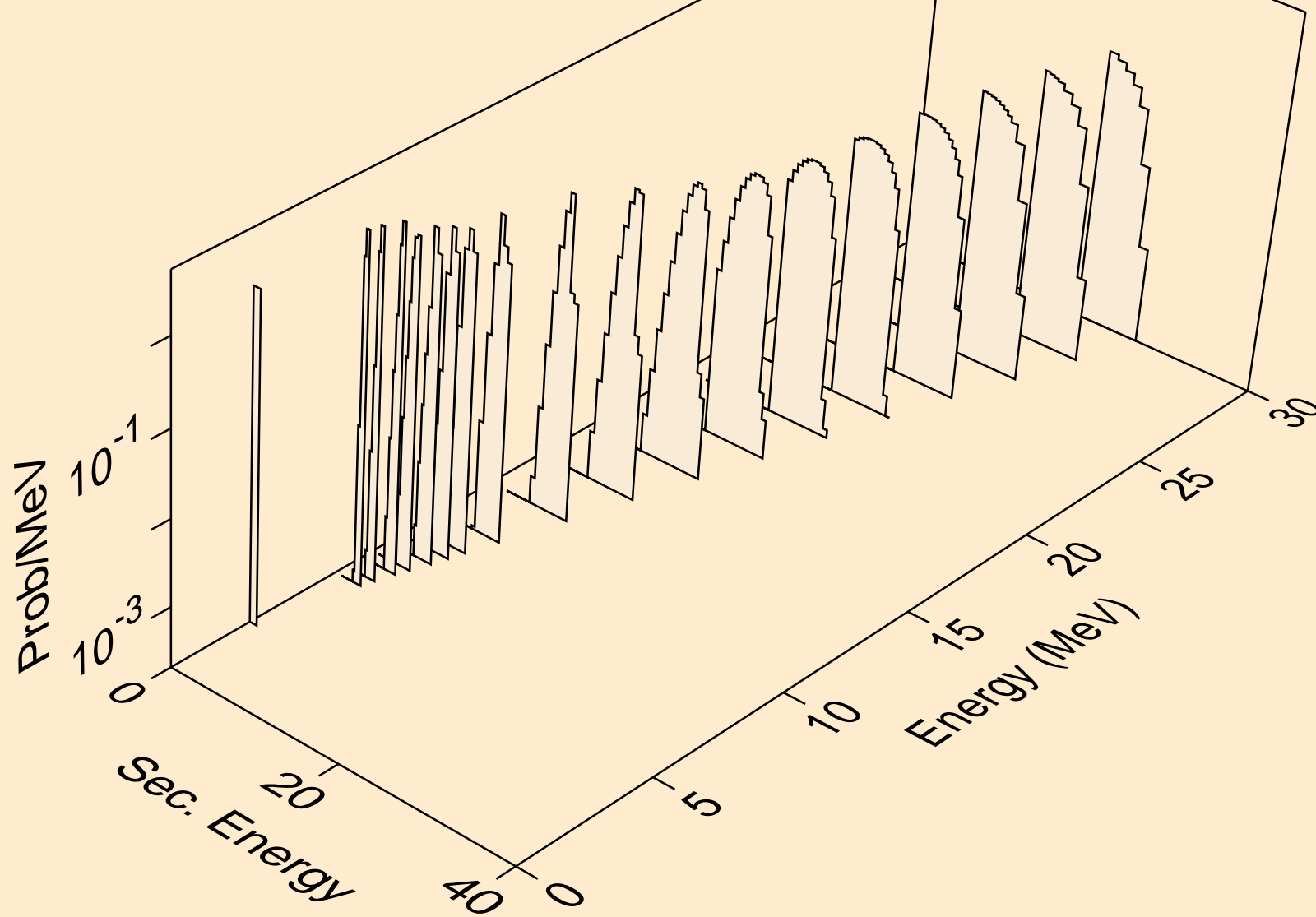
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tritons from (n,x)



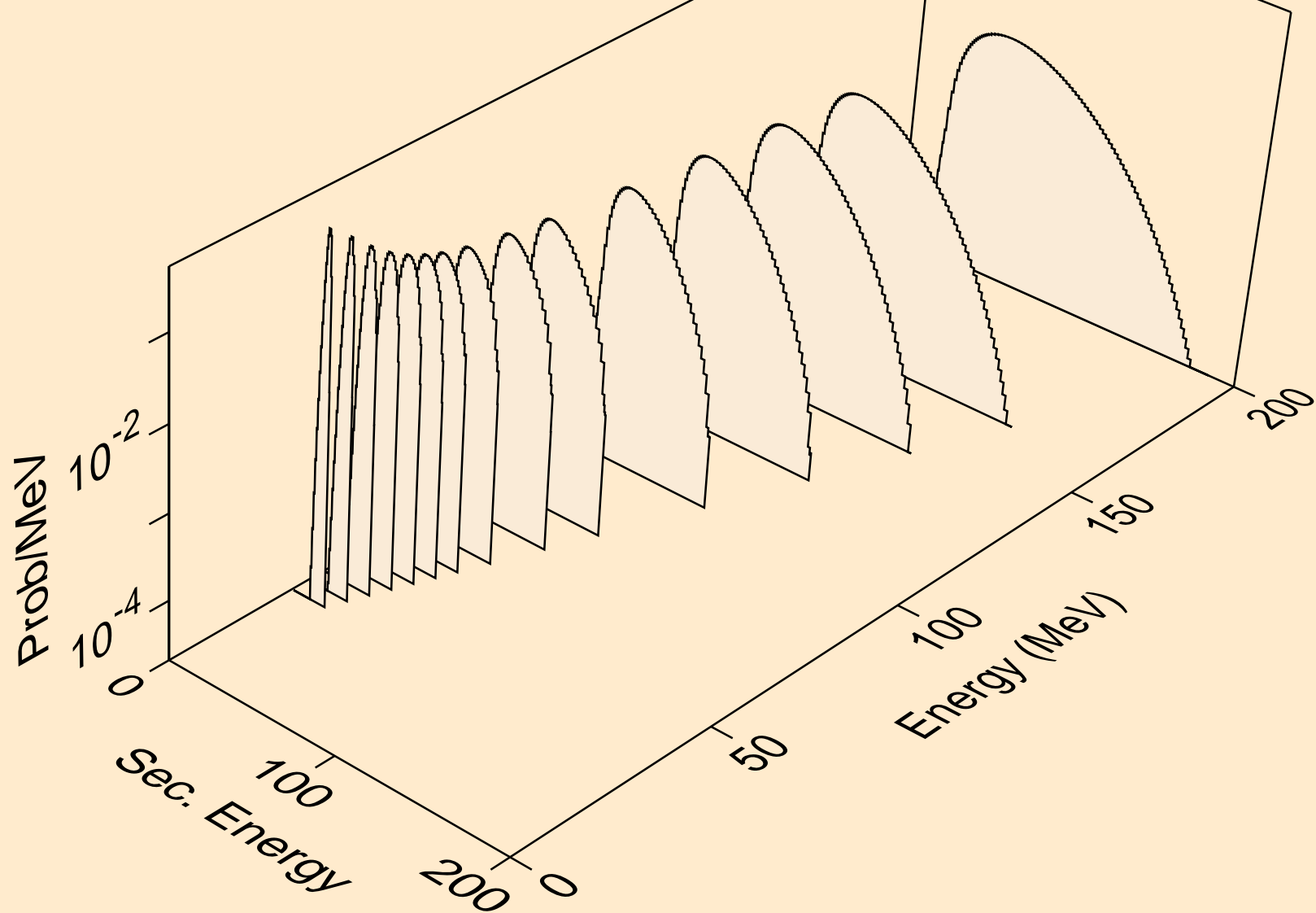
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tritons from (n,n\*)t



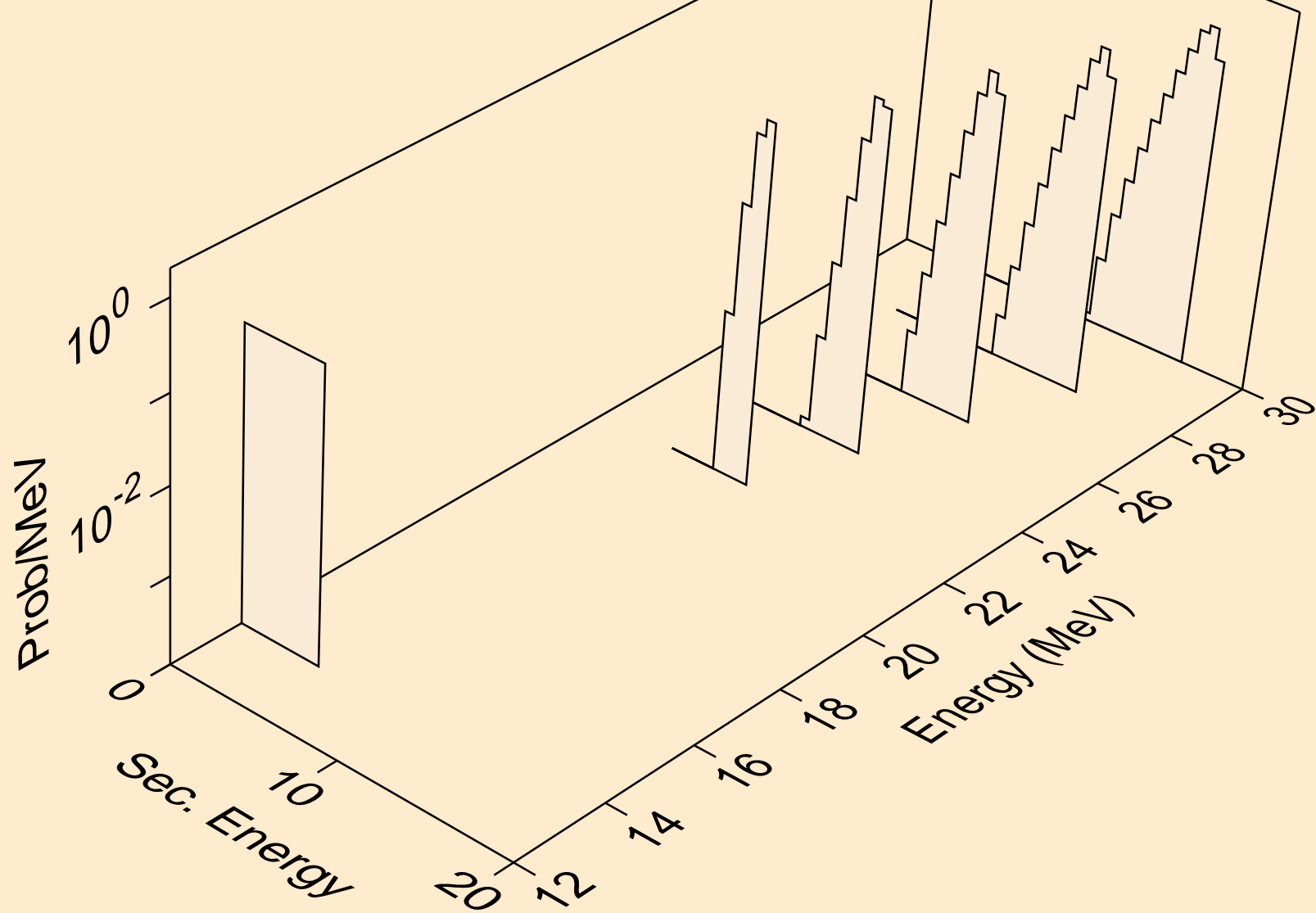
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tritons from (n,t)



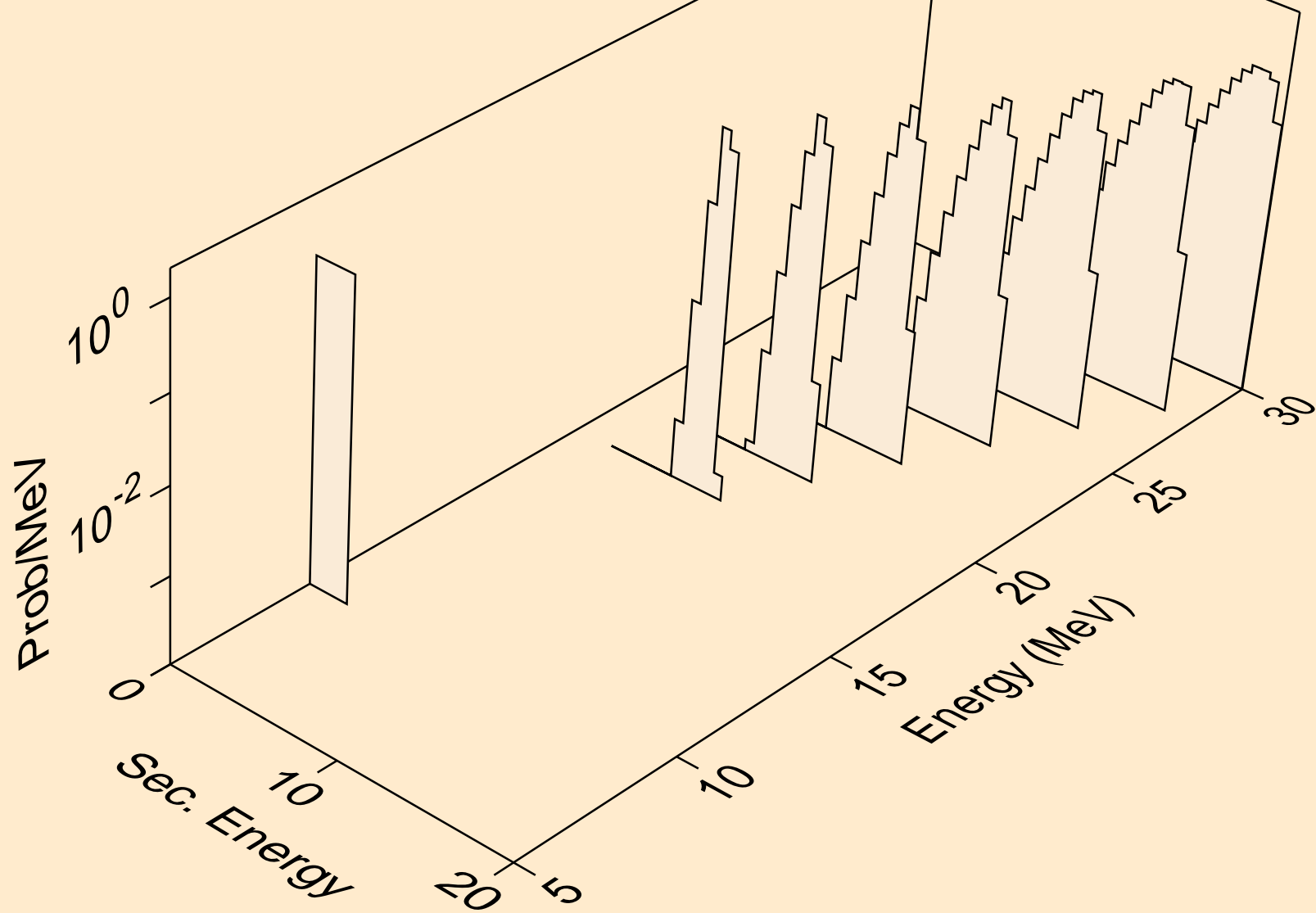
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



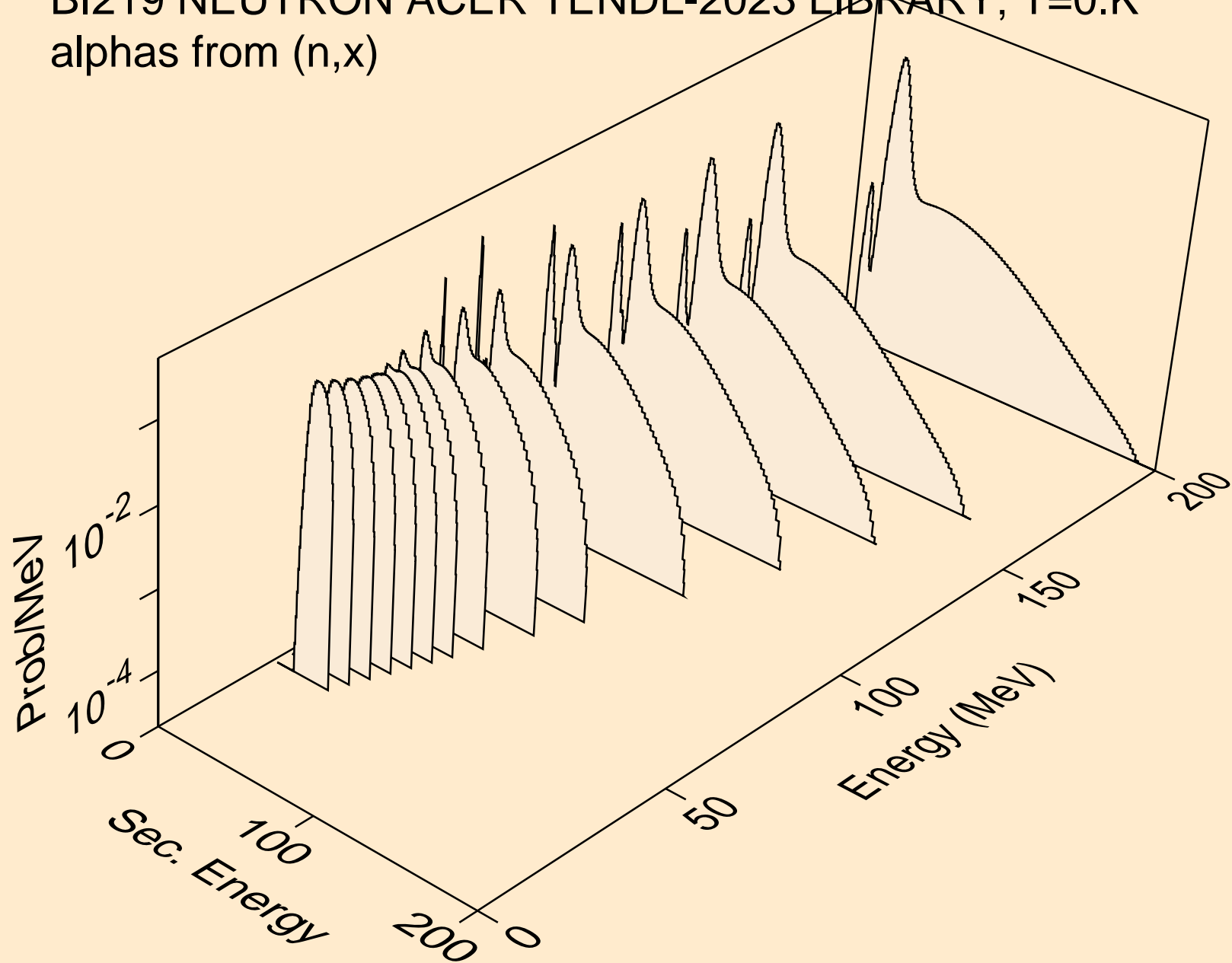
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he3s from (n,n\*)he3



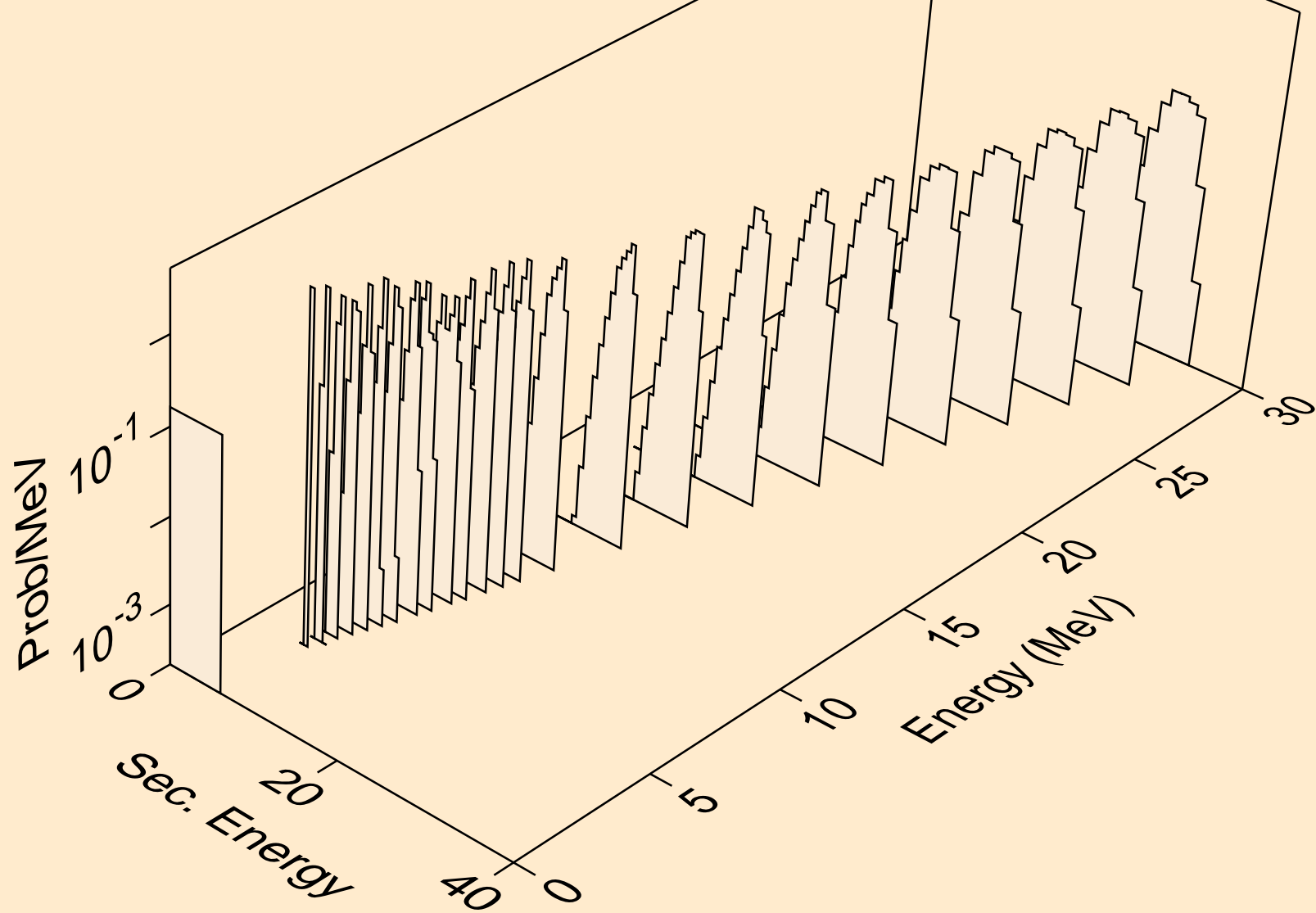
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he3s from (n,he3)



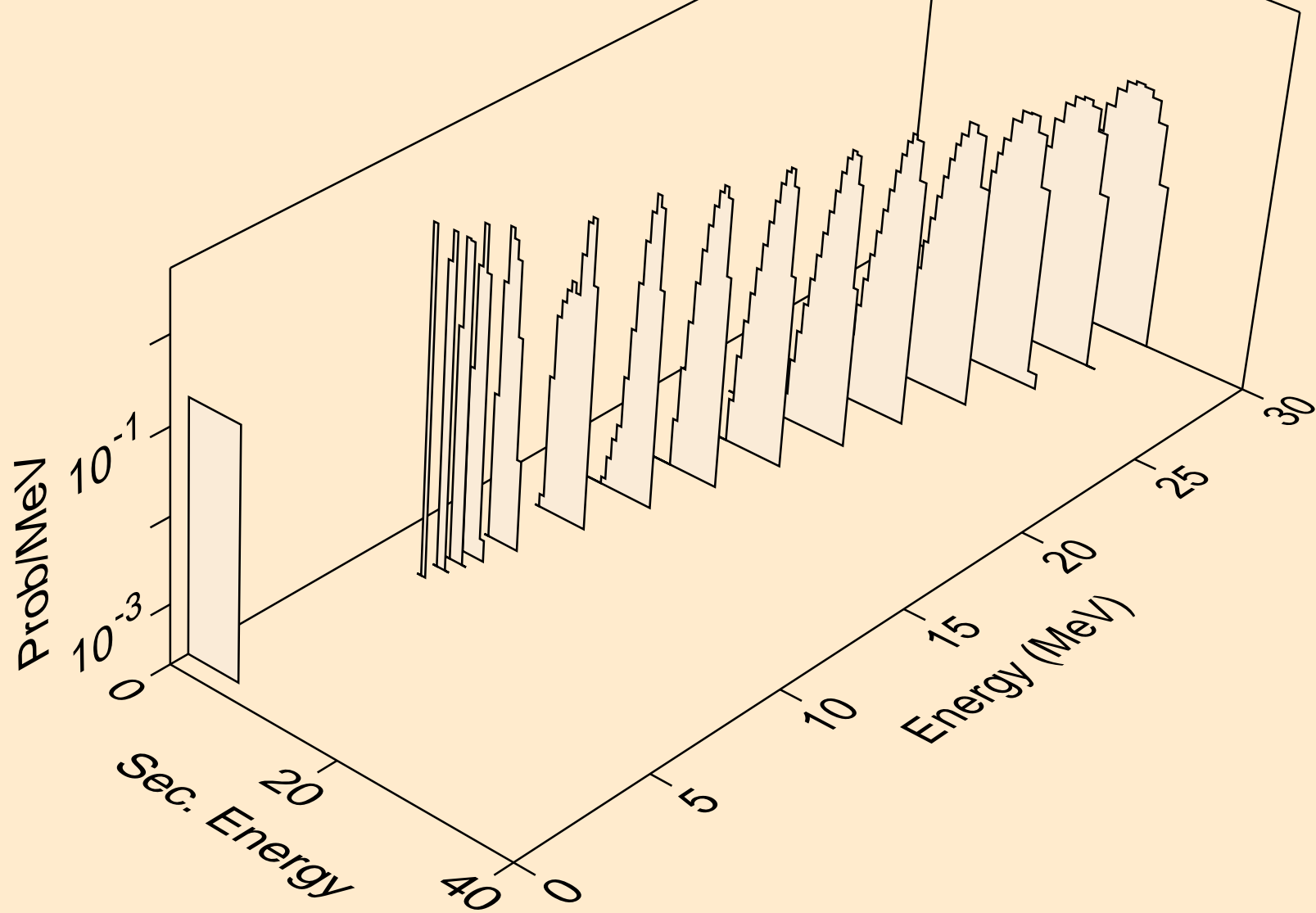
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



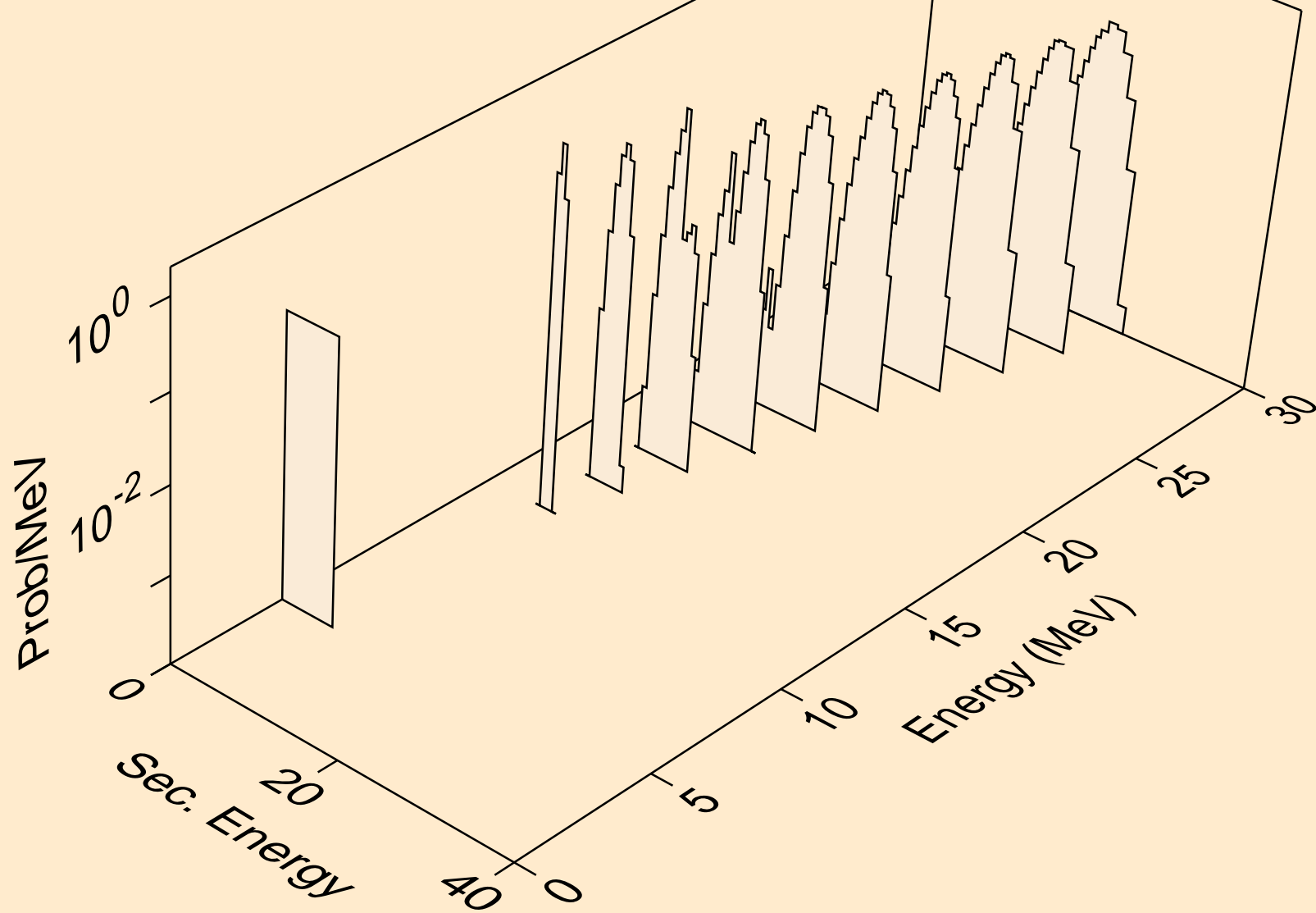
BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



BI219 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)

