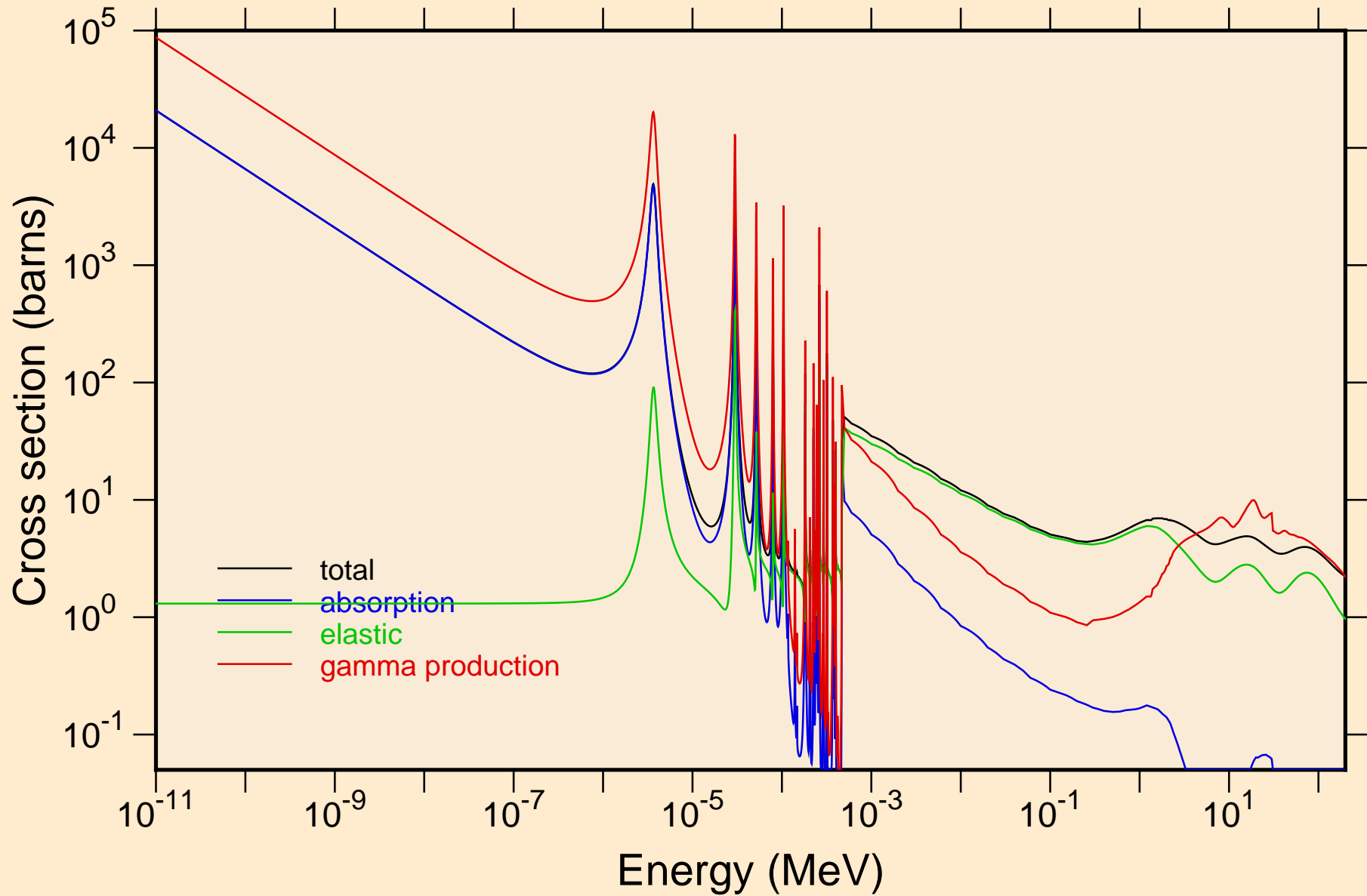
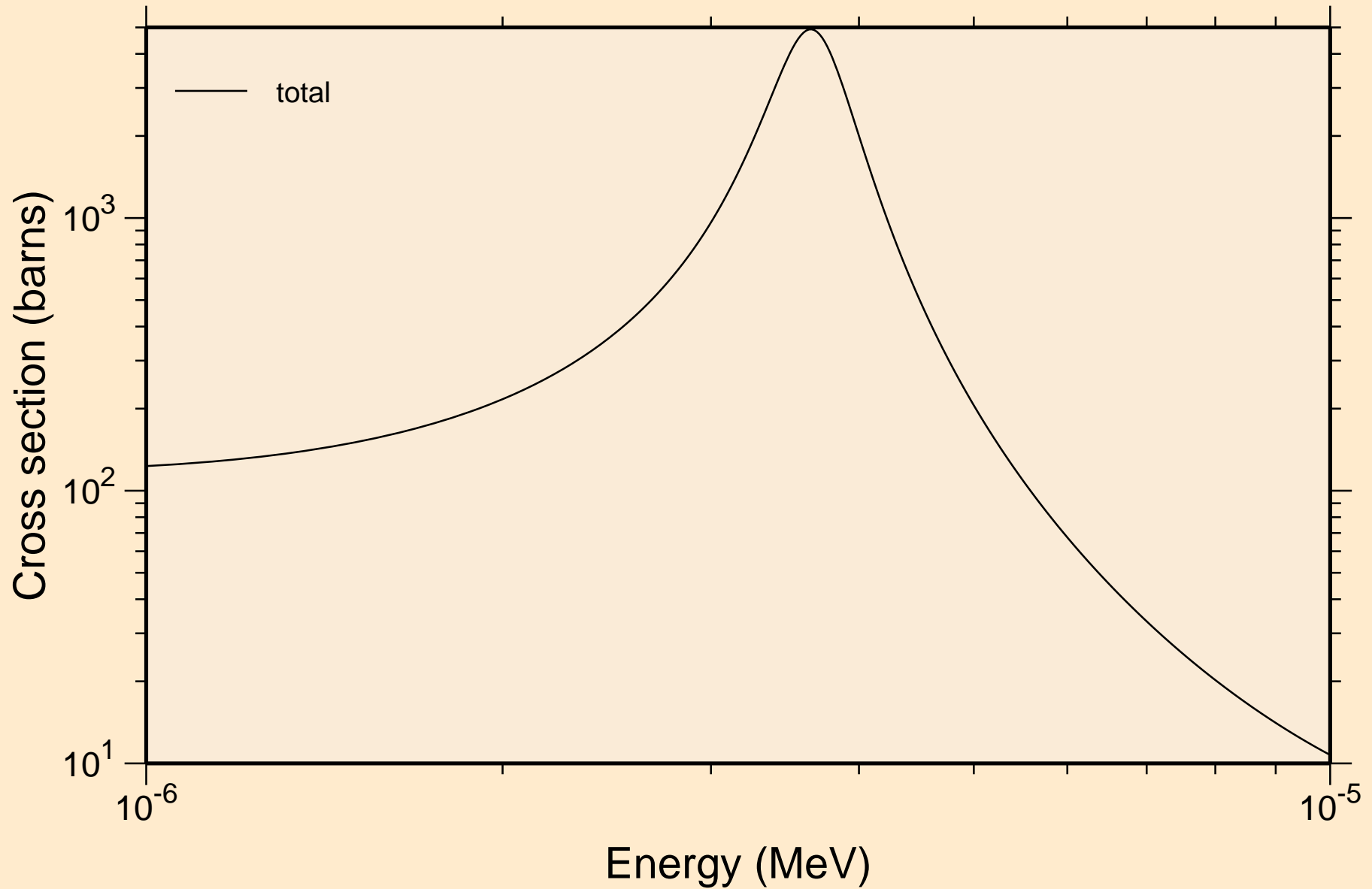


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

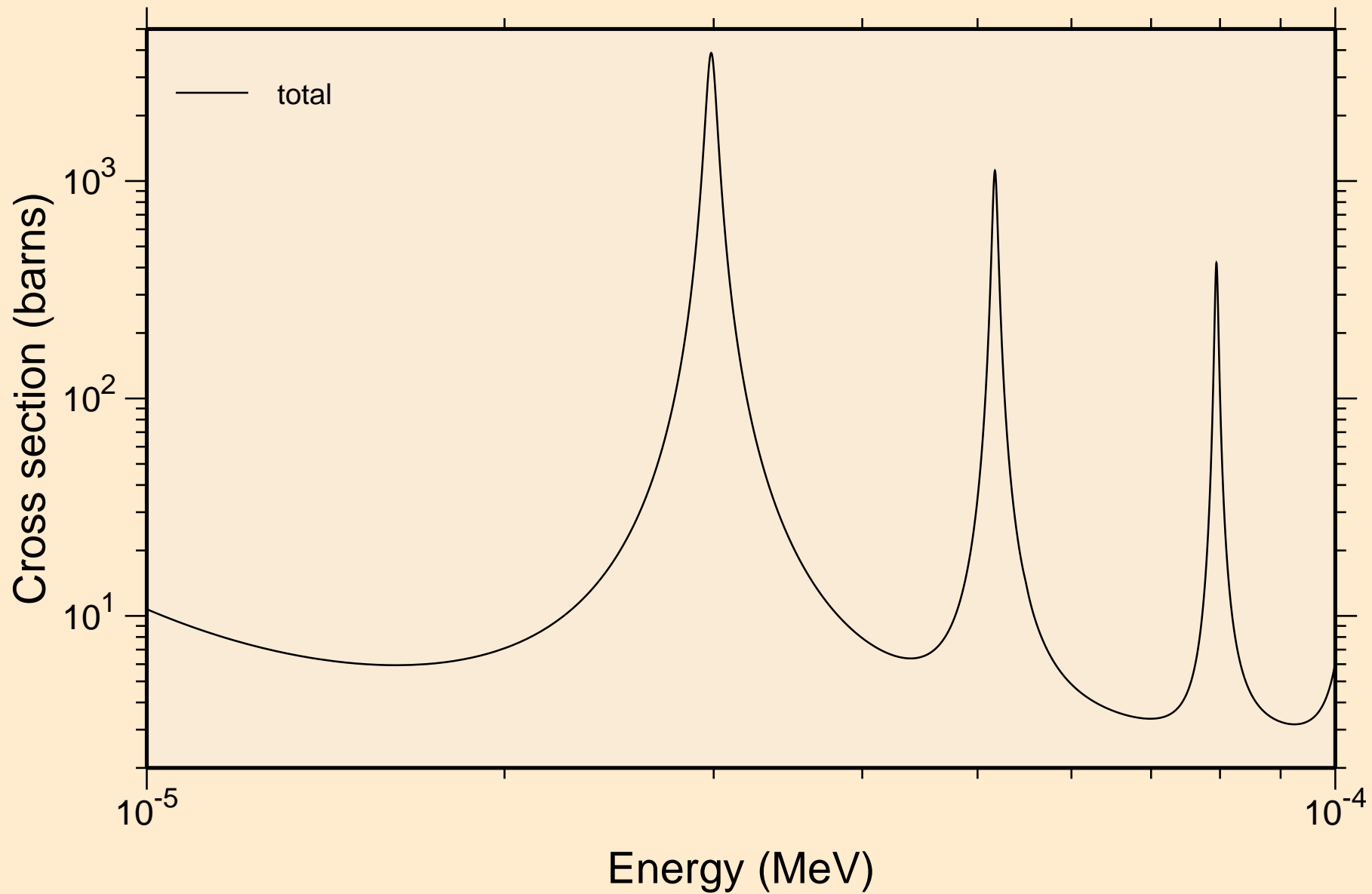
## Principal cross sections



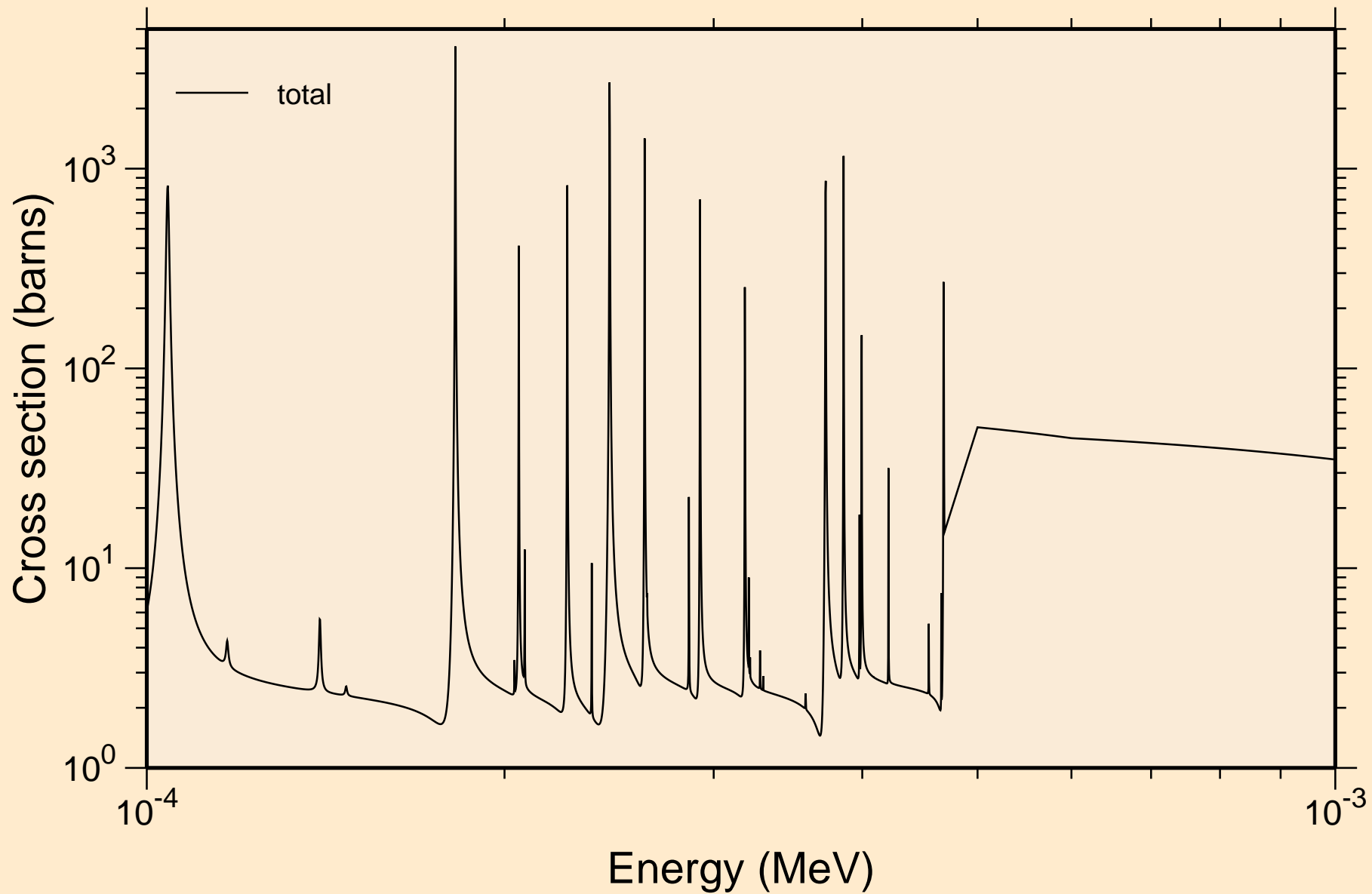
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



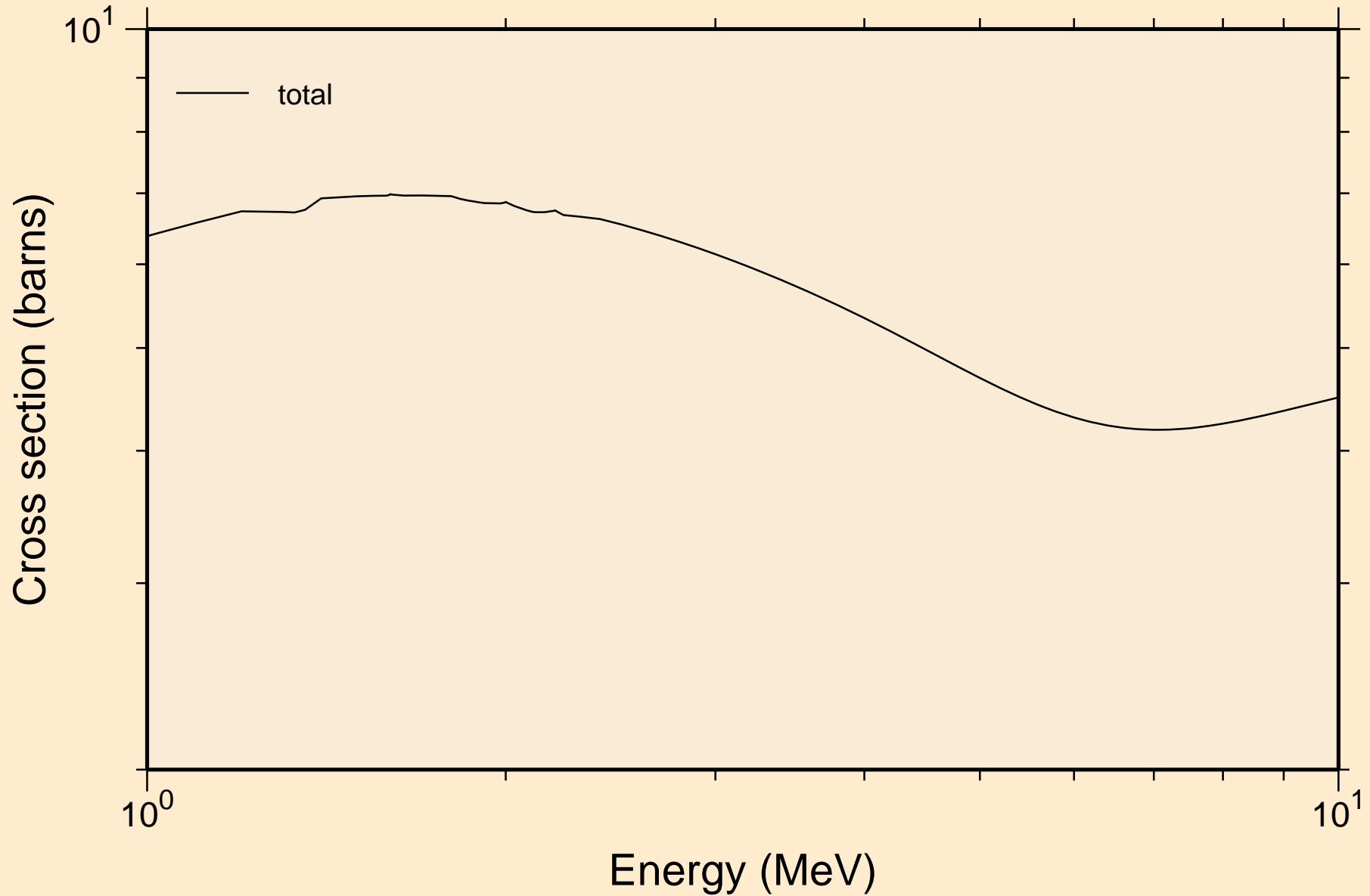
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



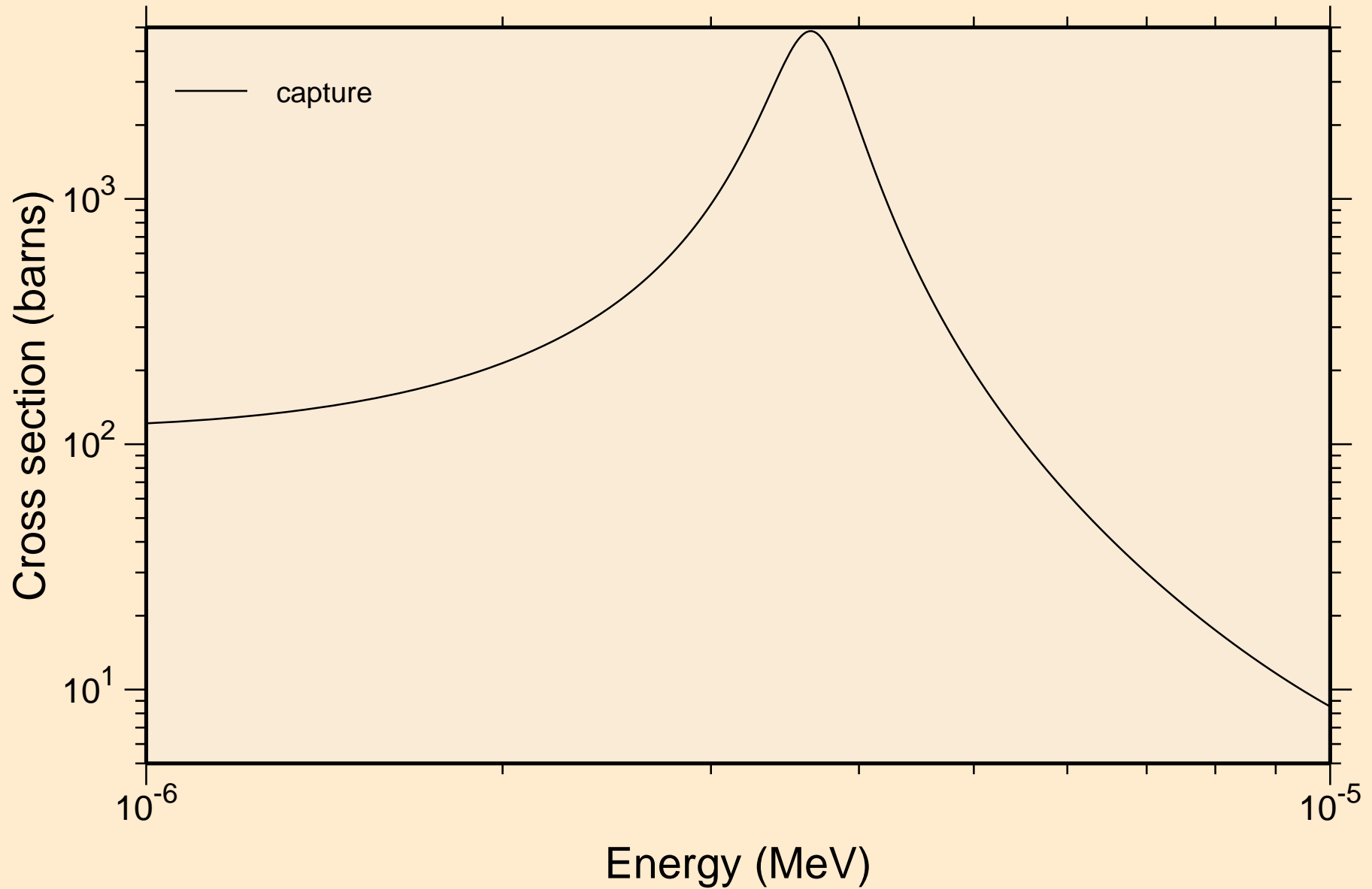
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



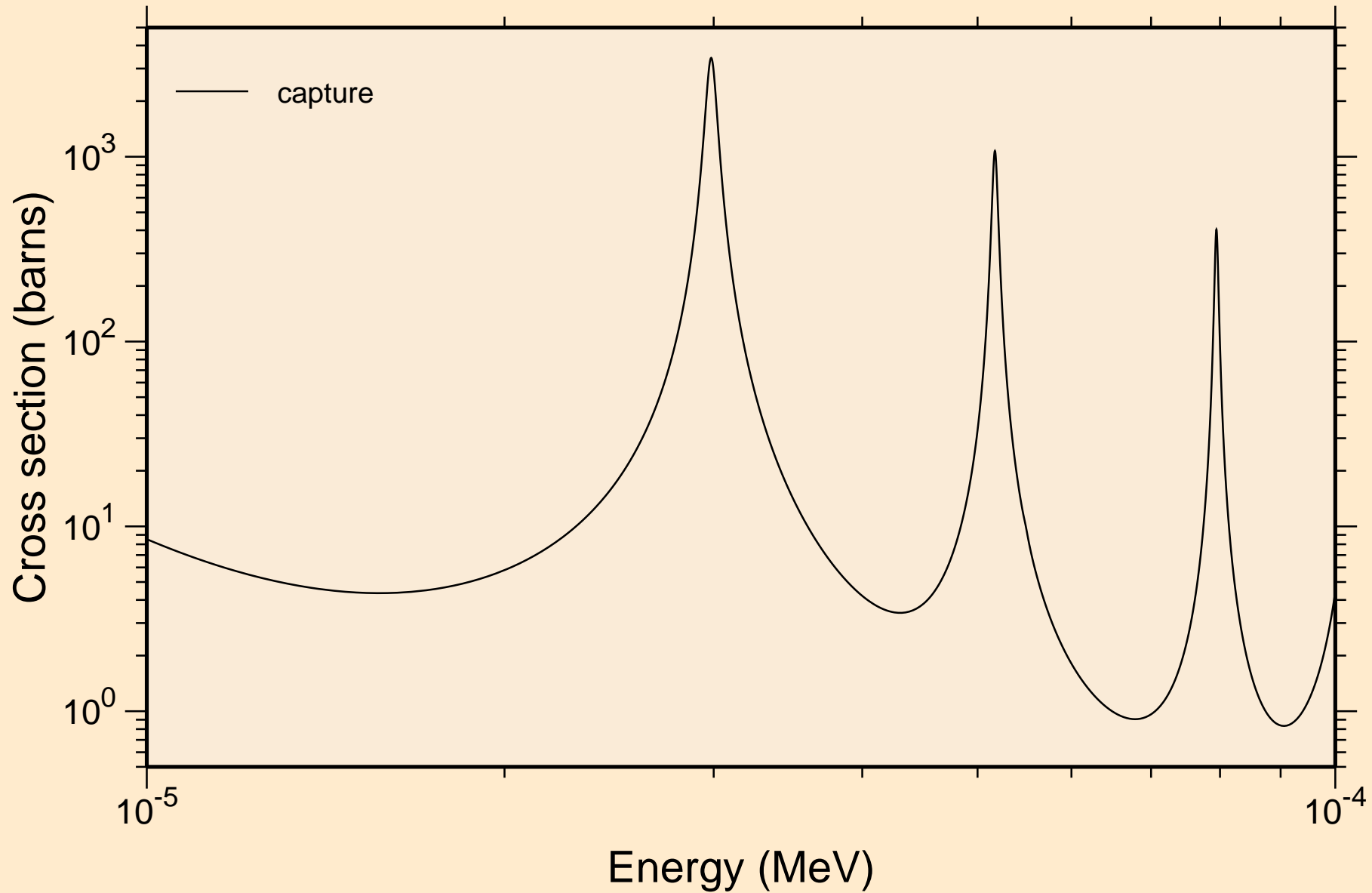
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



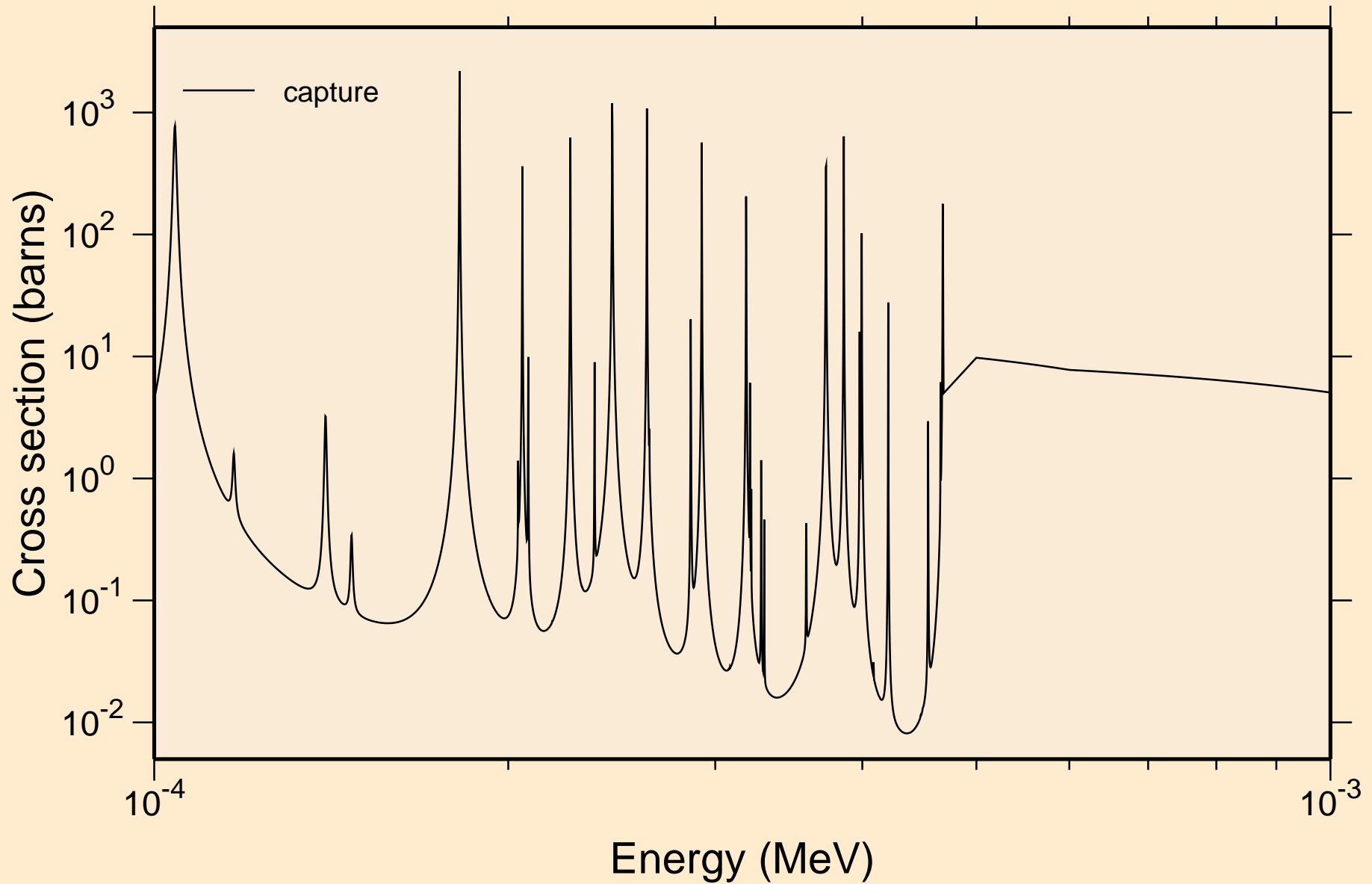
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

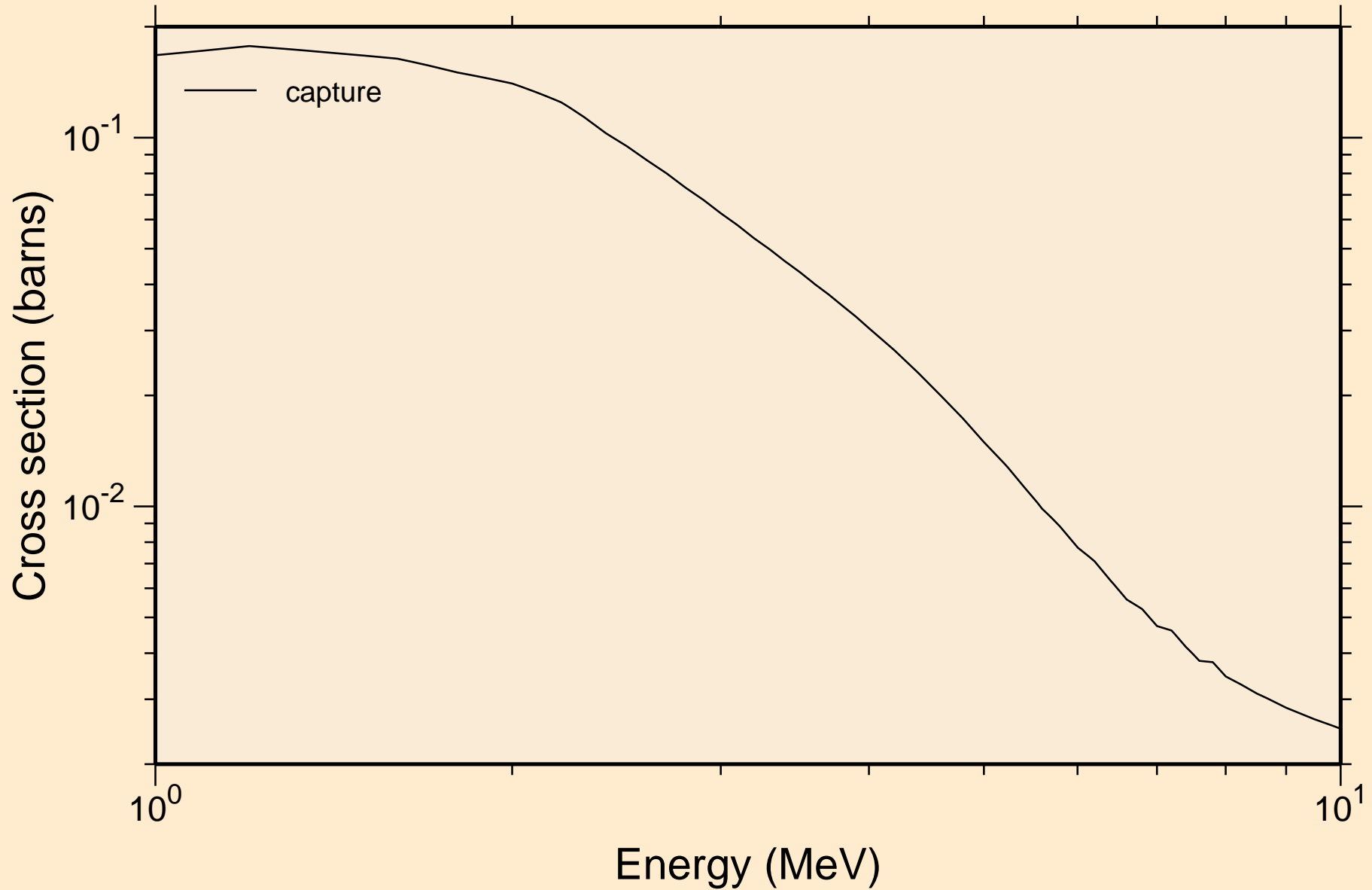


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

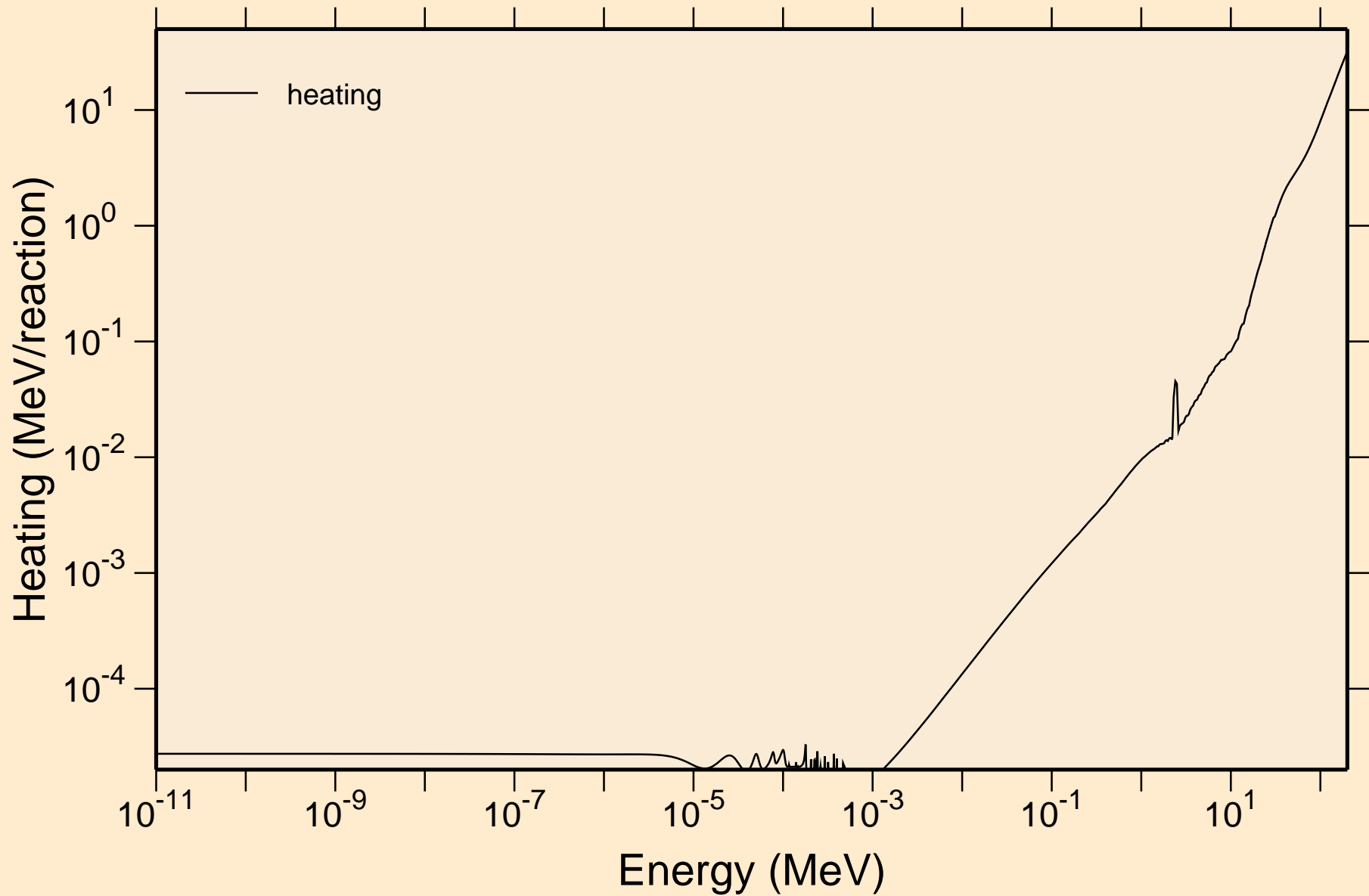




CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

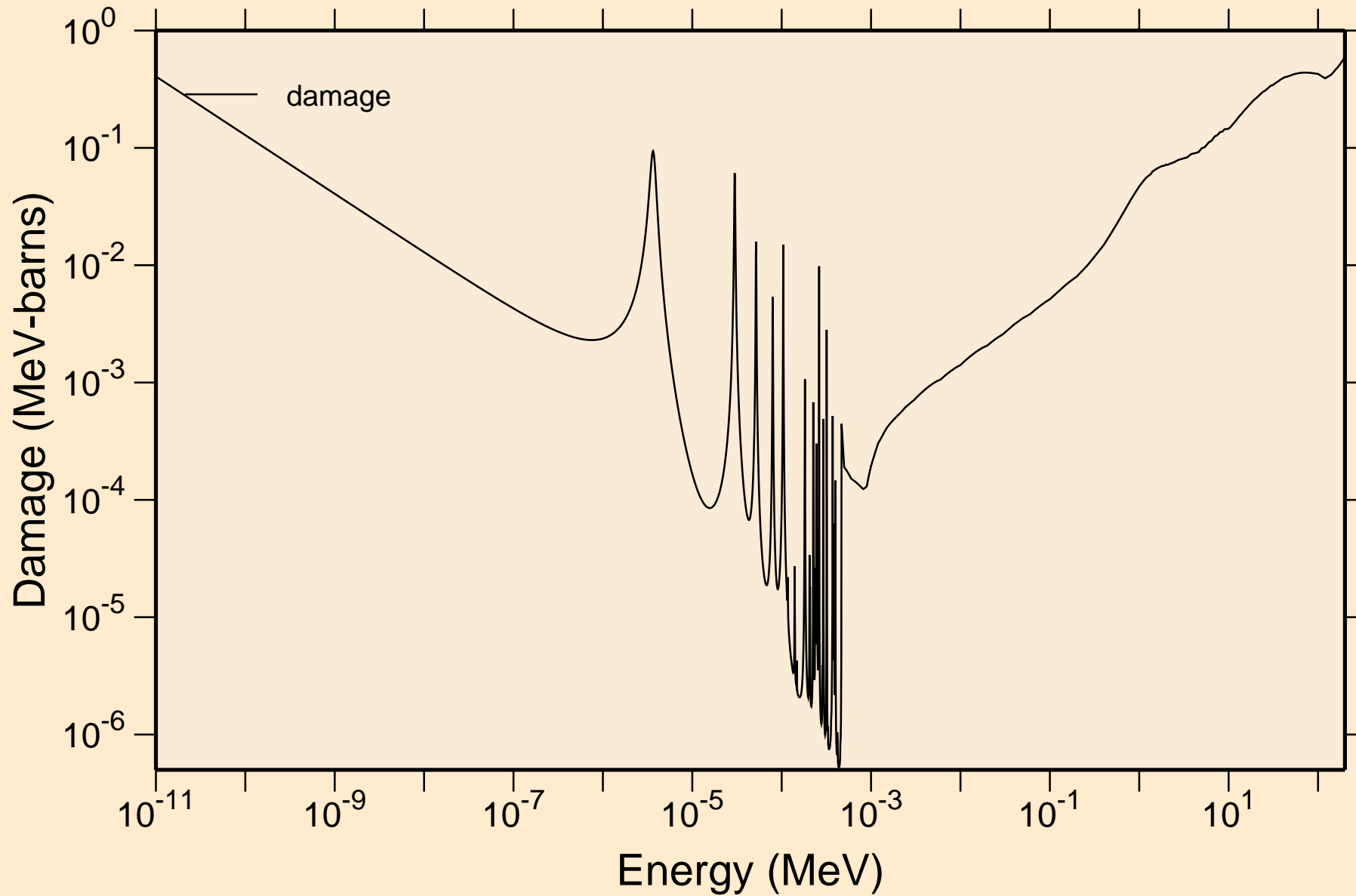


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Heating



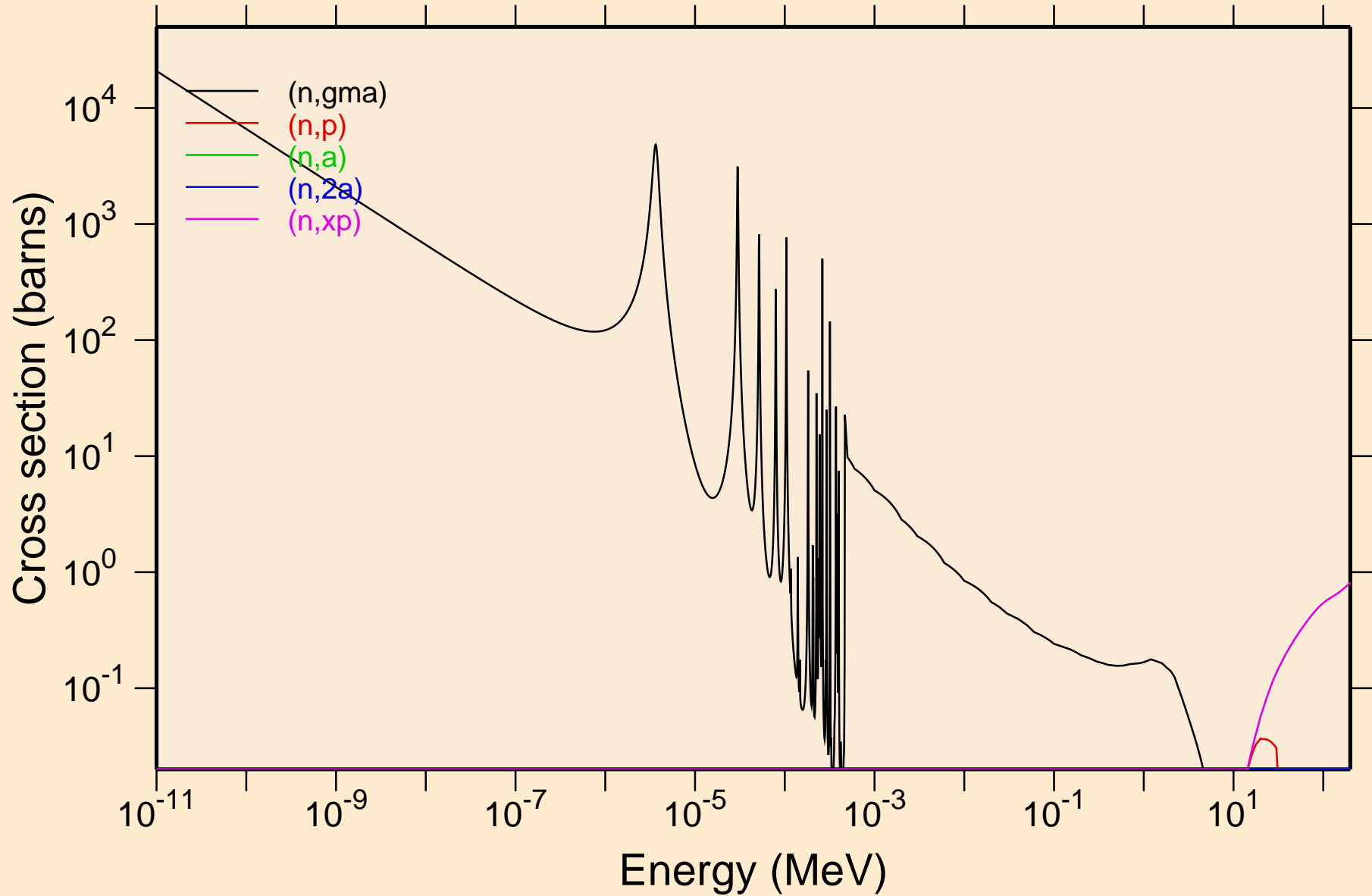
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage

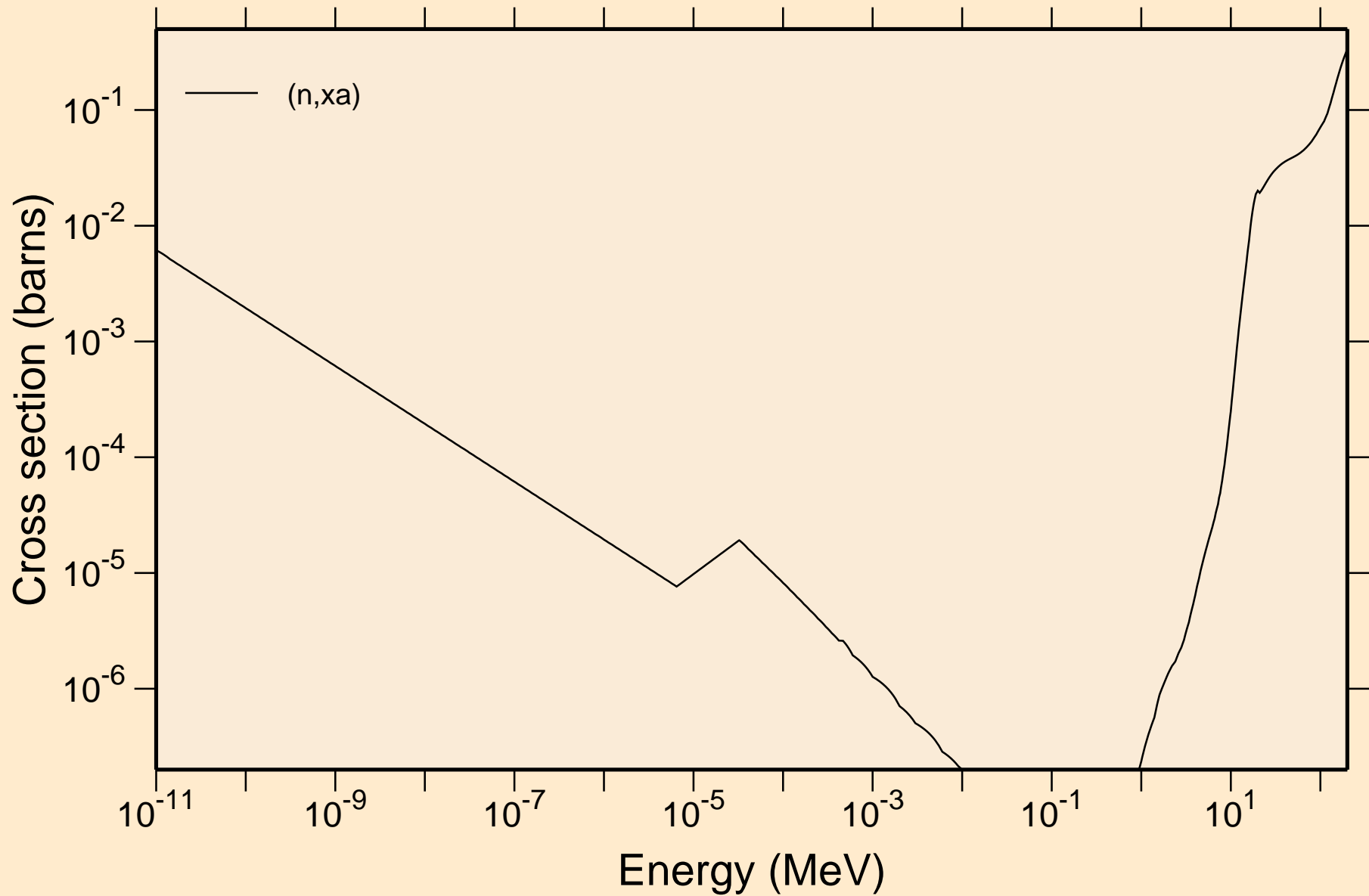


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Non-threshold reactions

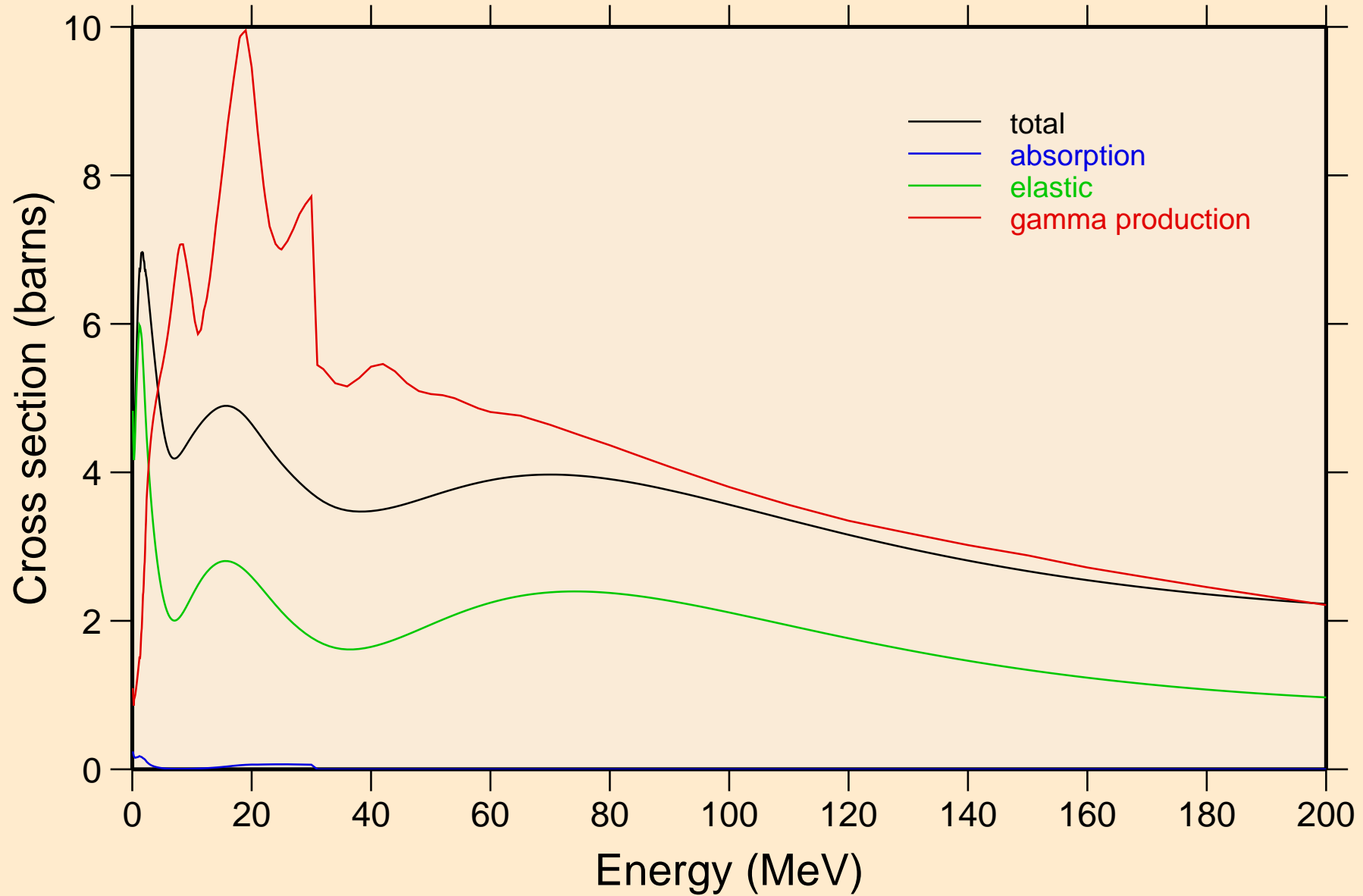


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



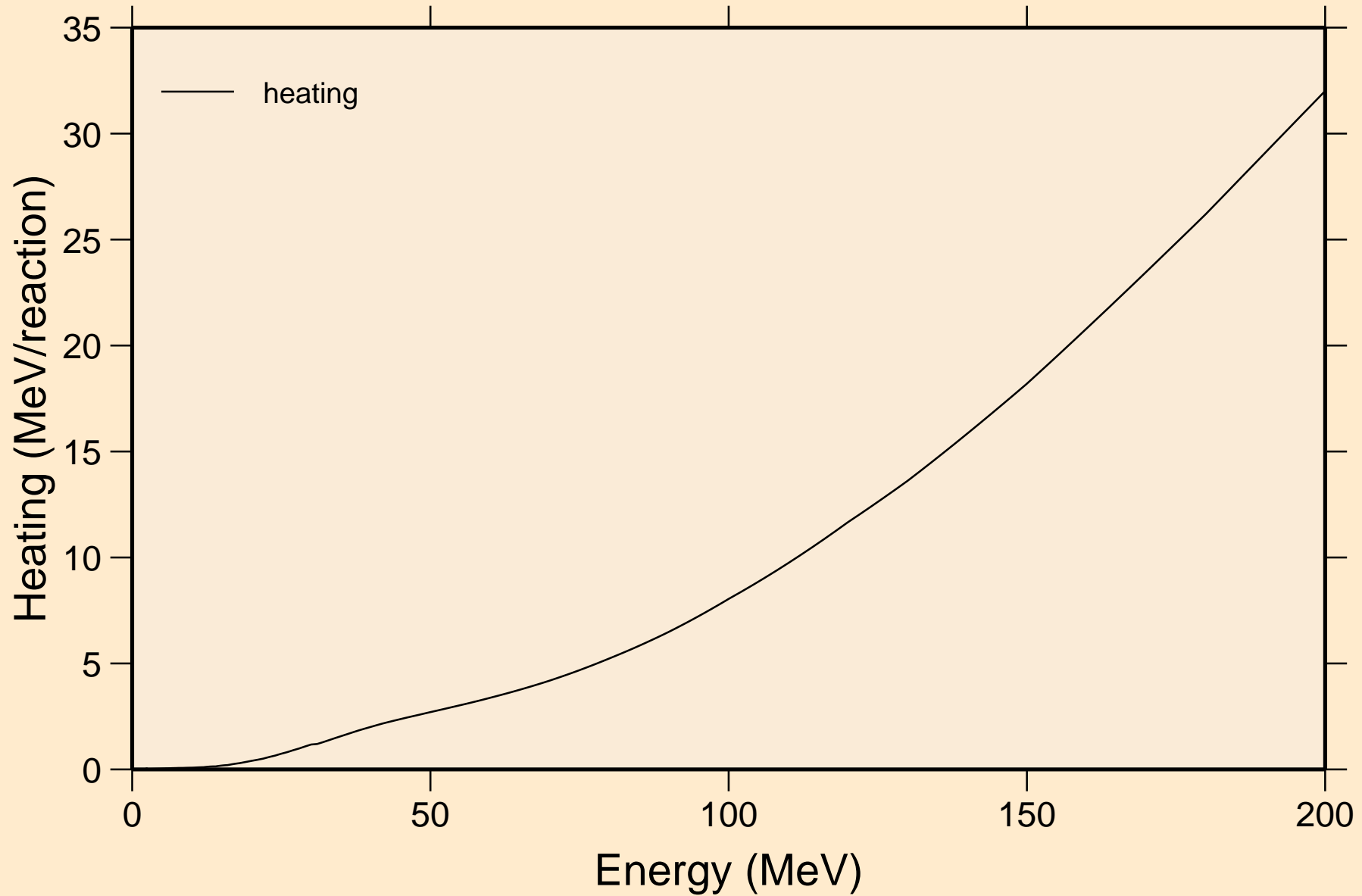
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections

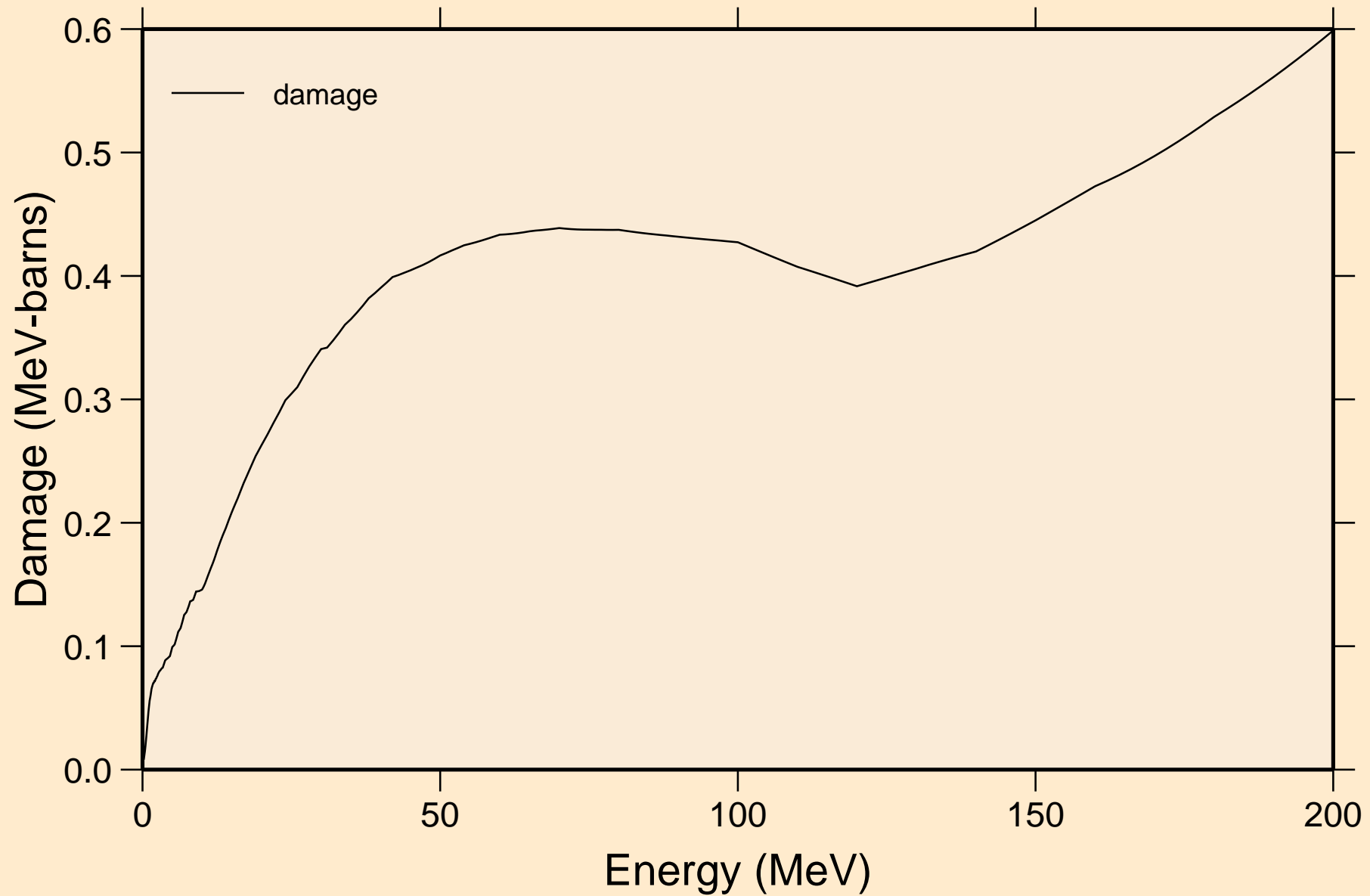


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



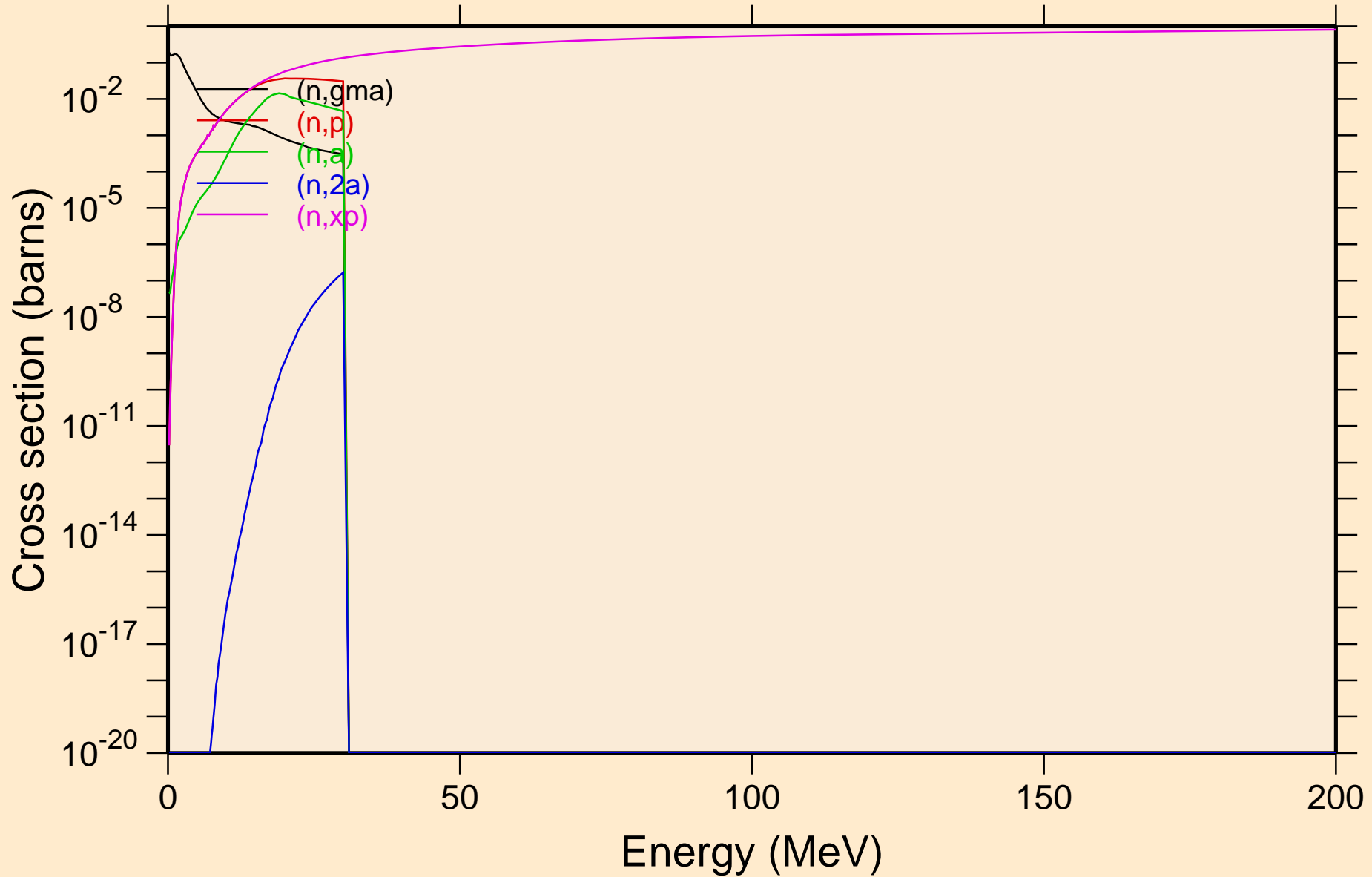
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage



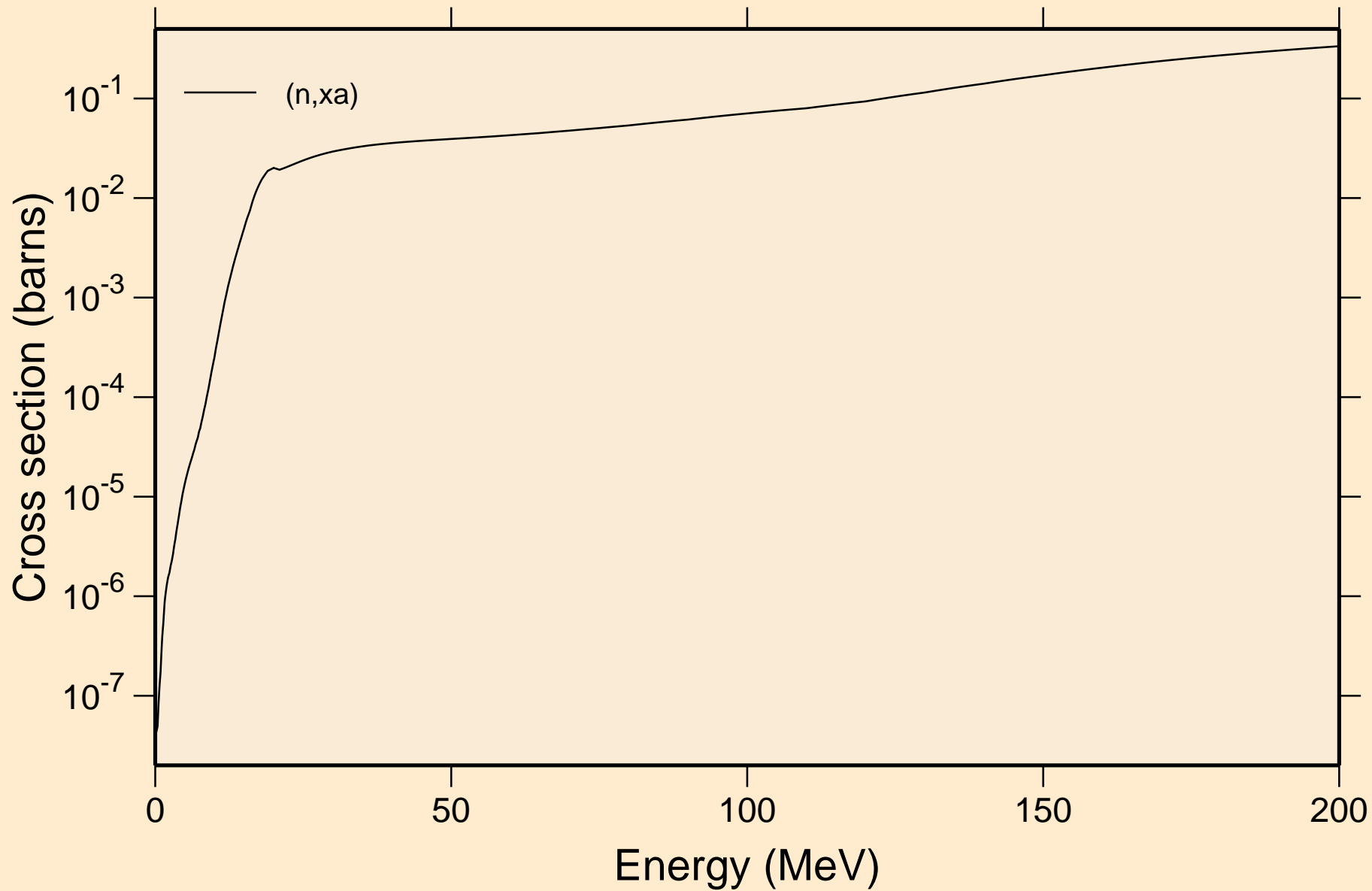


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

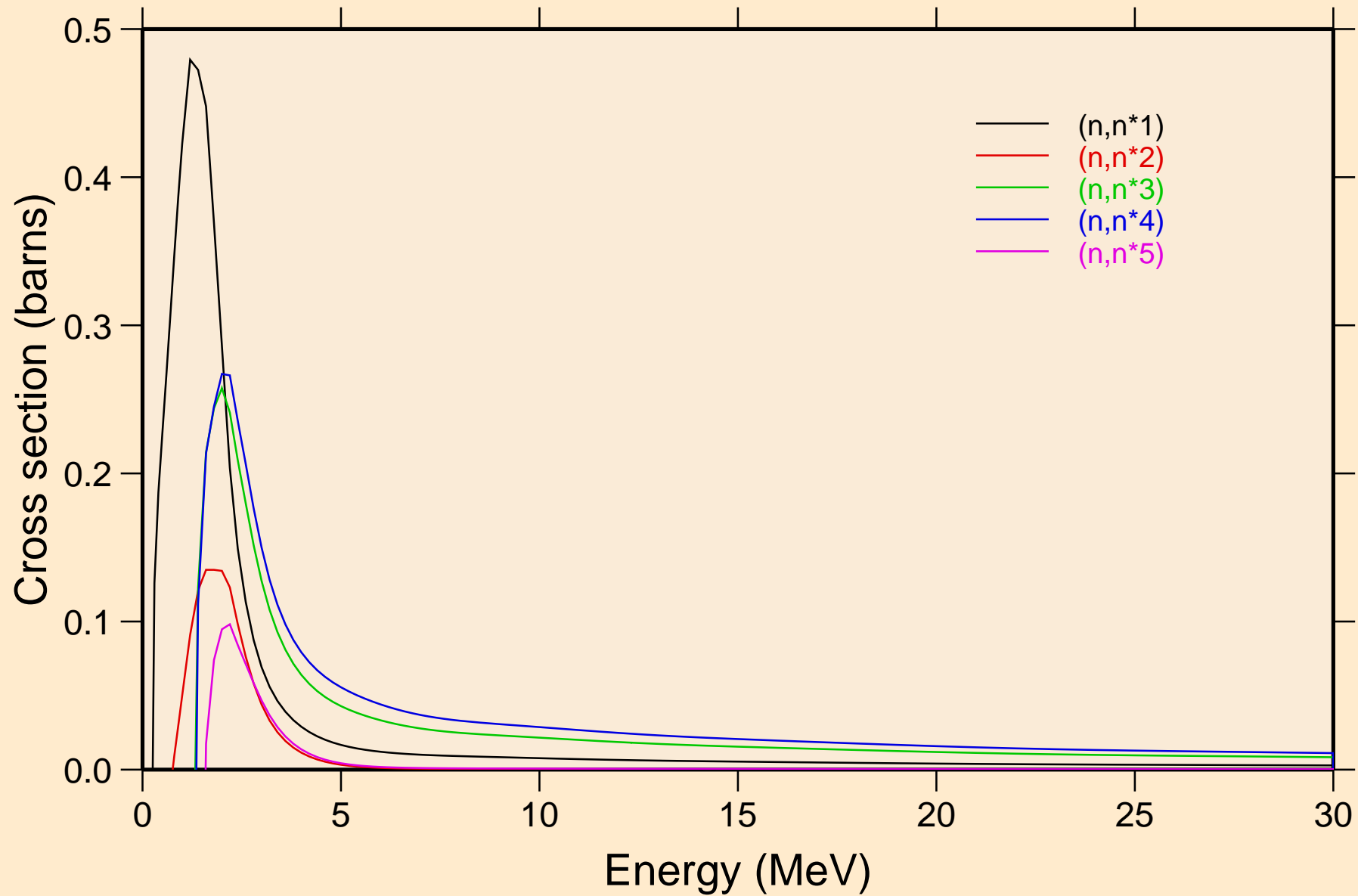
## Non-threshold reactions



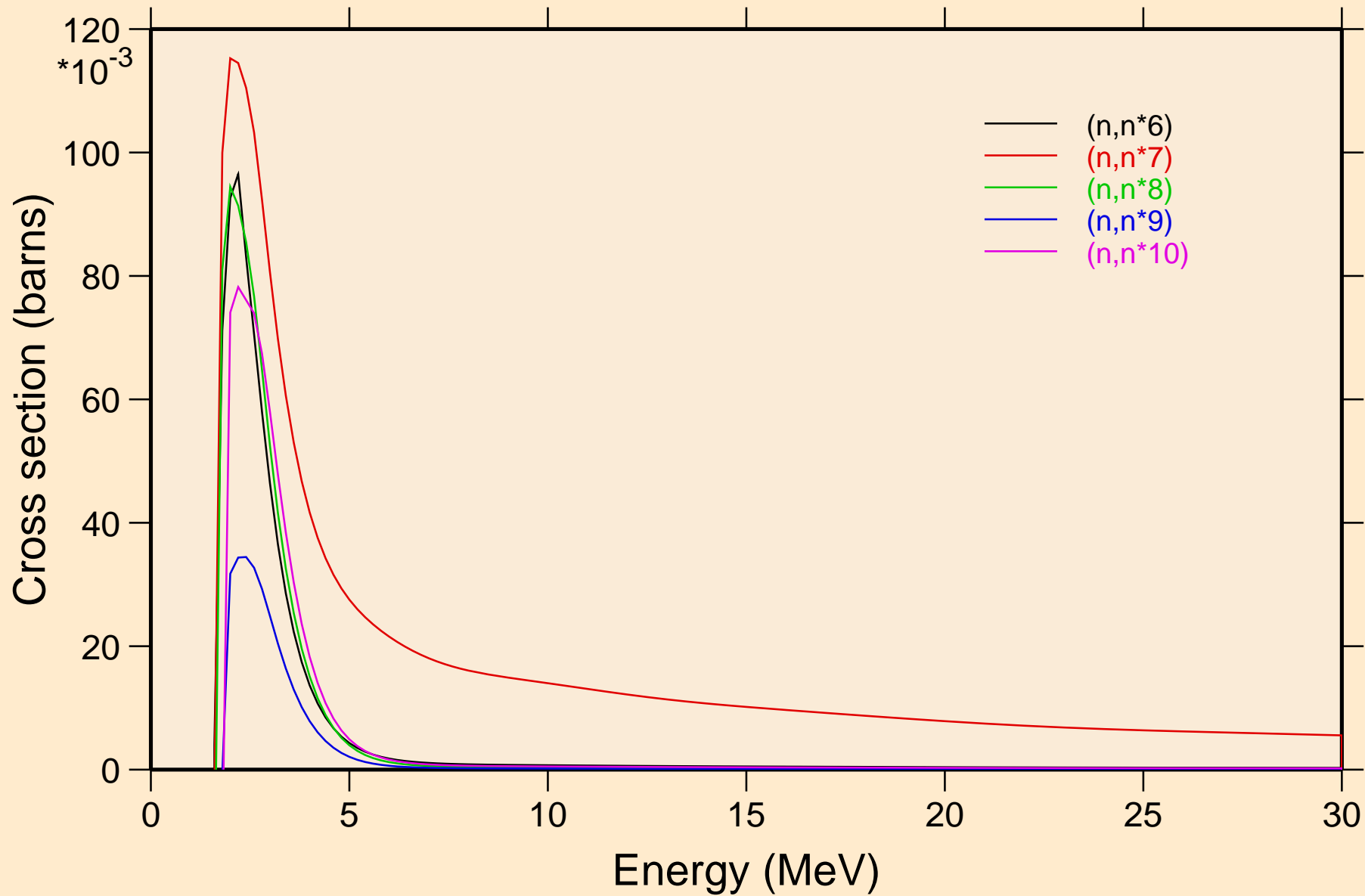
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



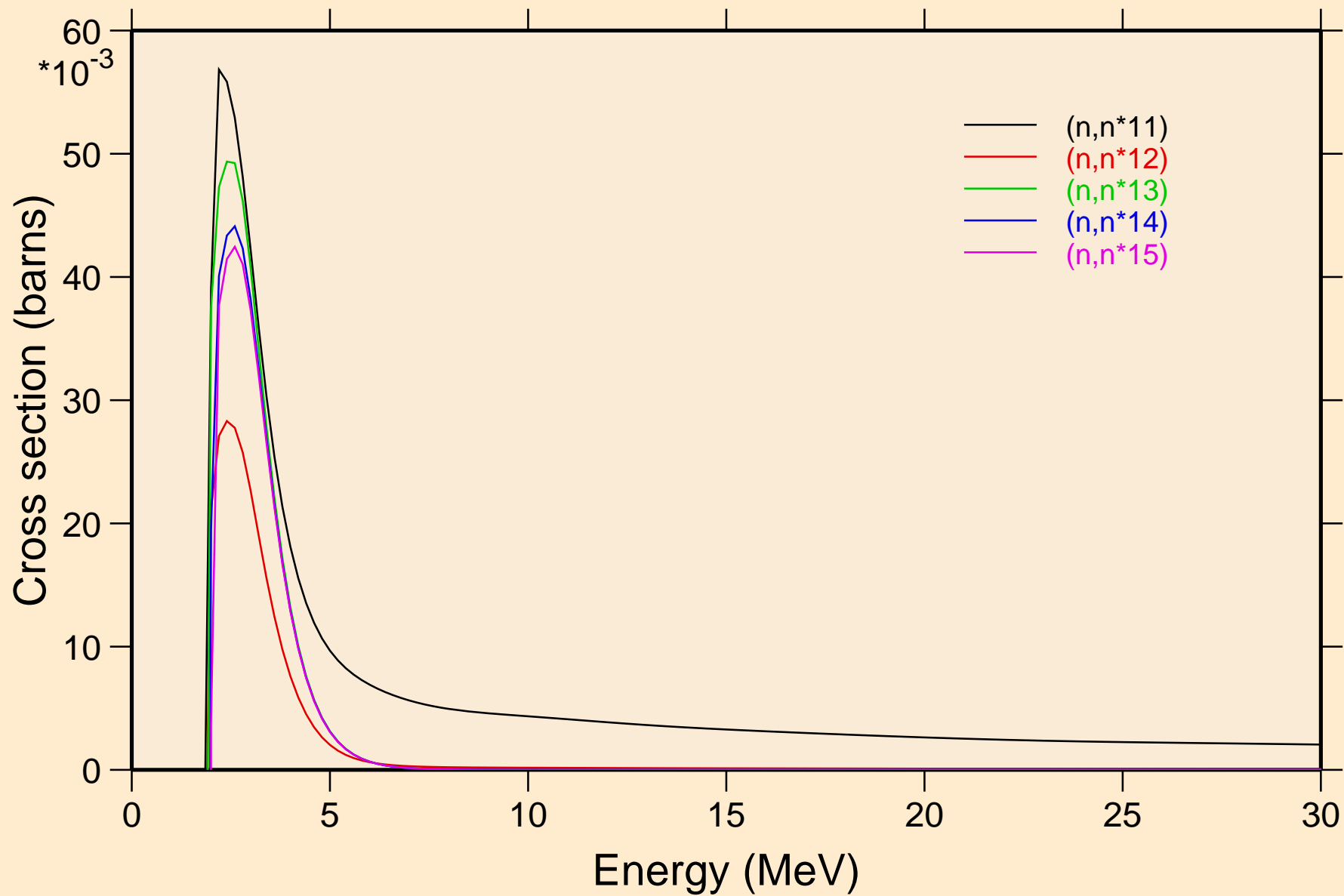
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

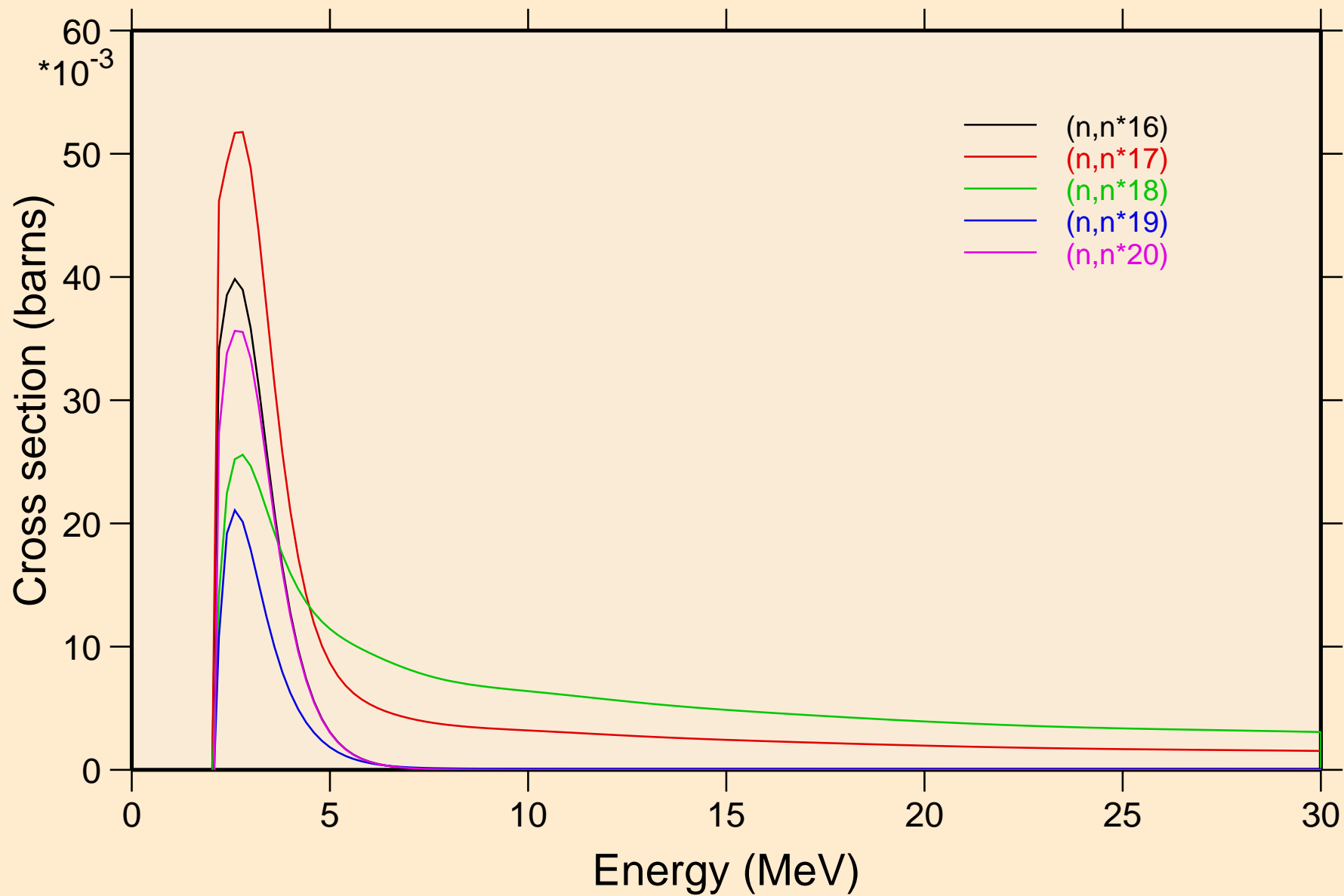


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

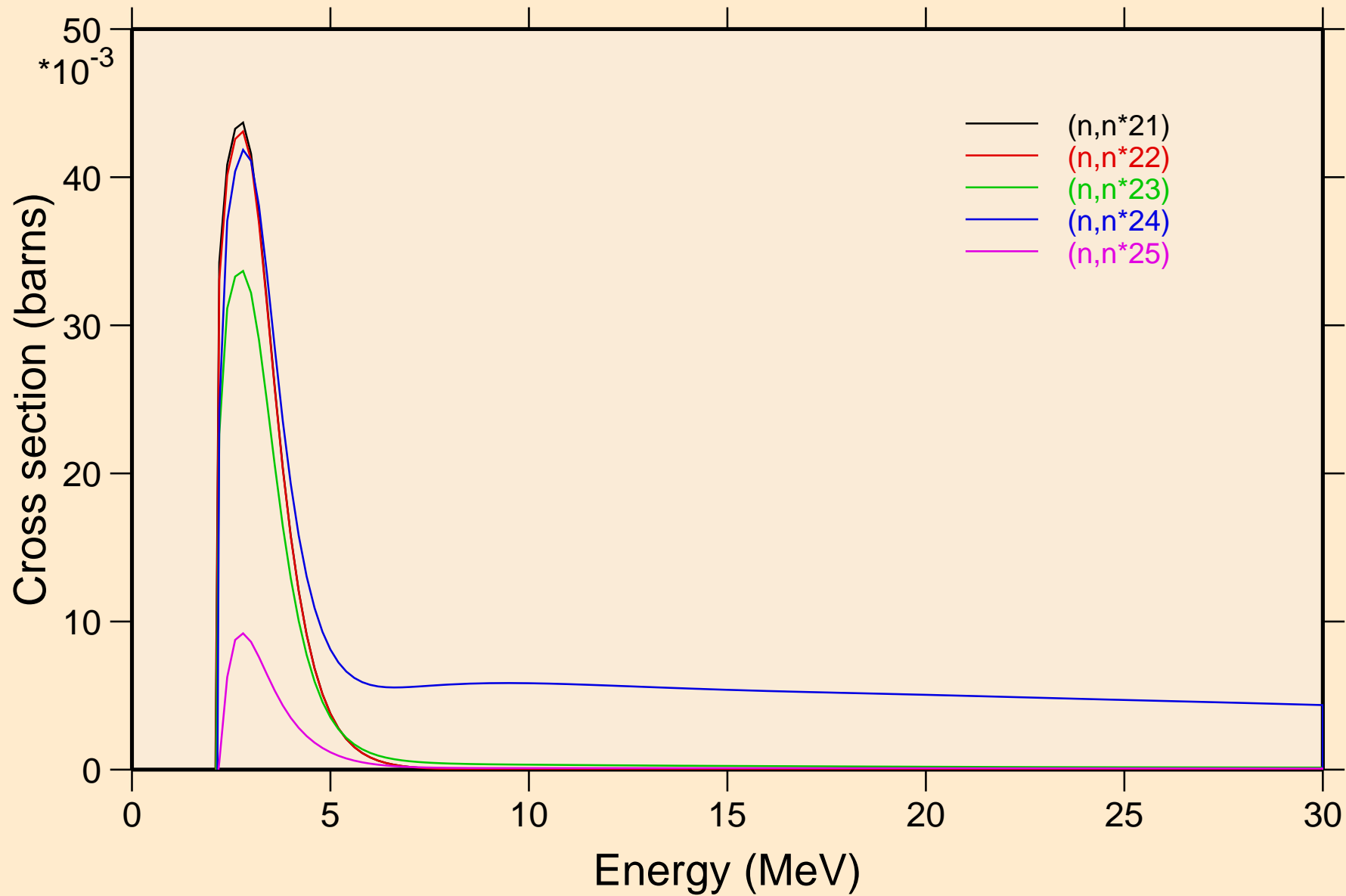


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

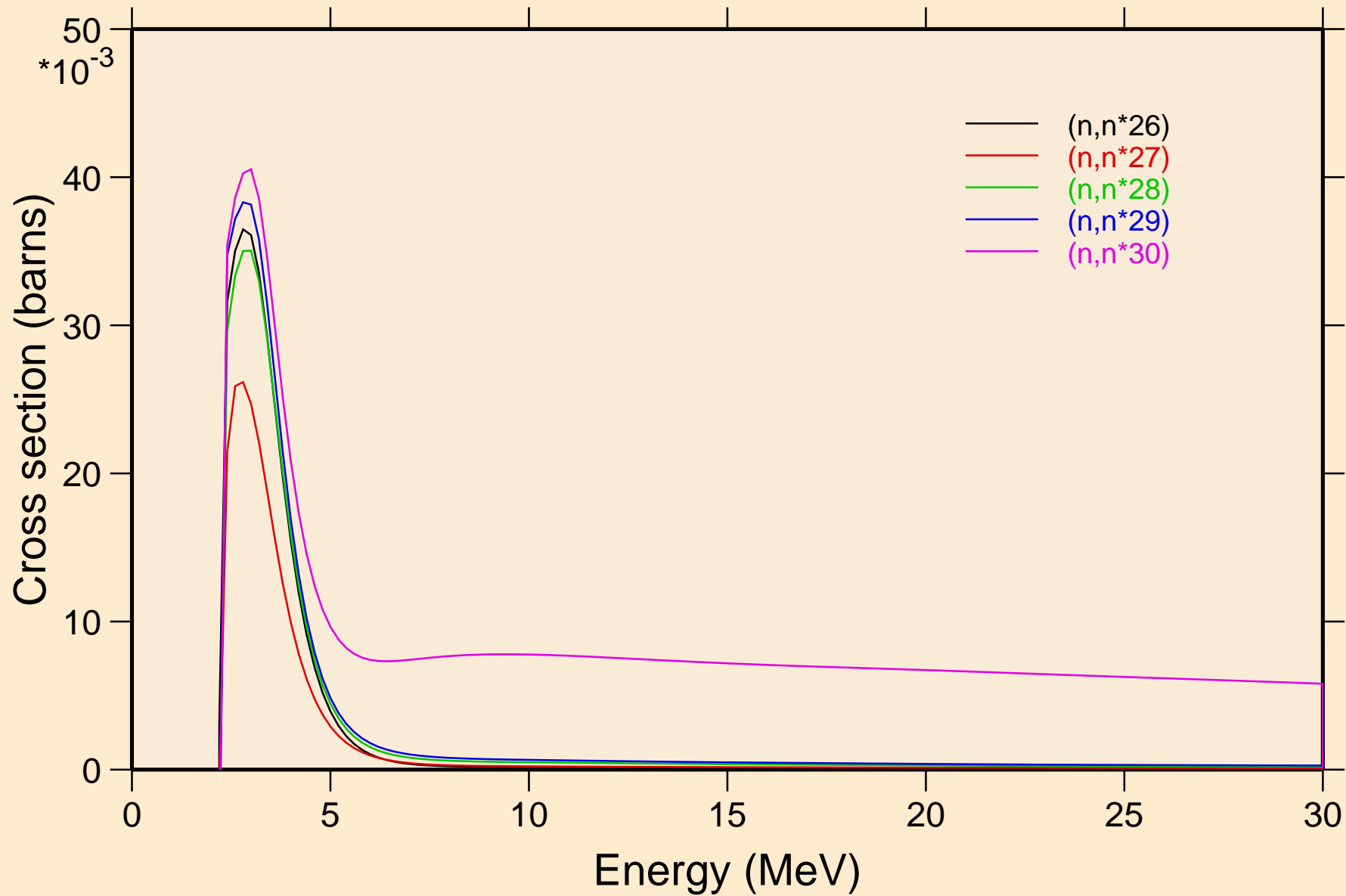
## Inelastic levels



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



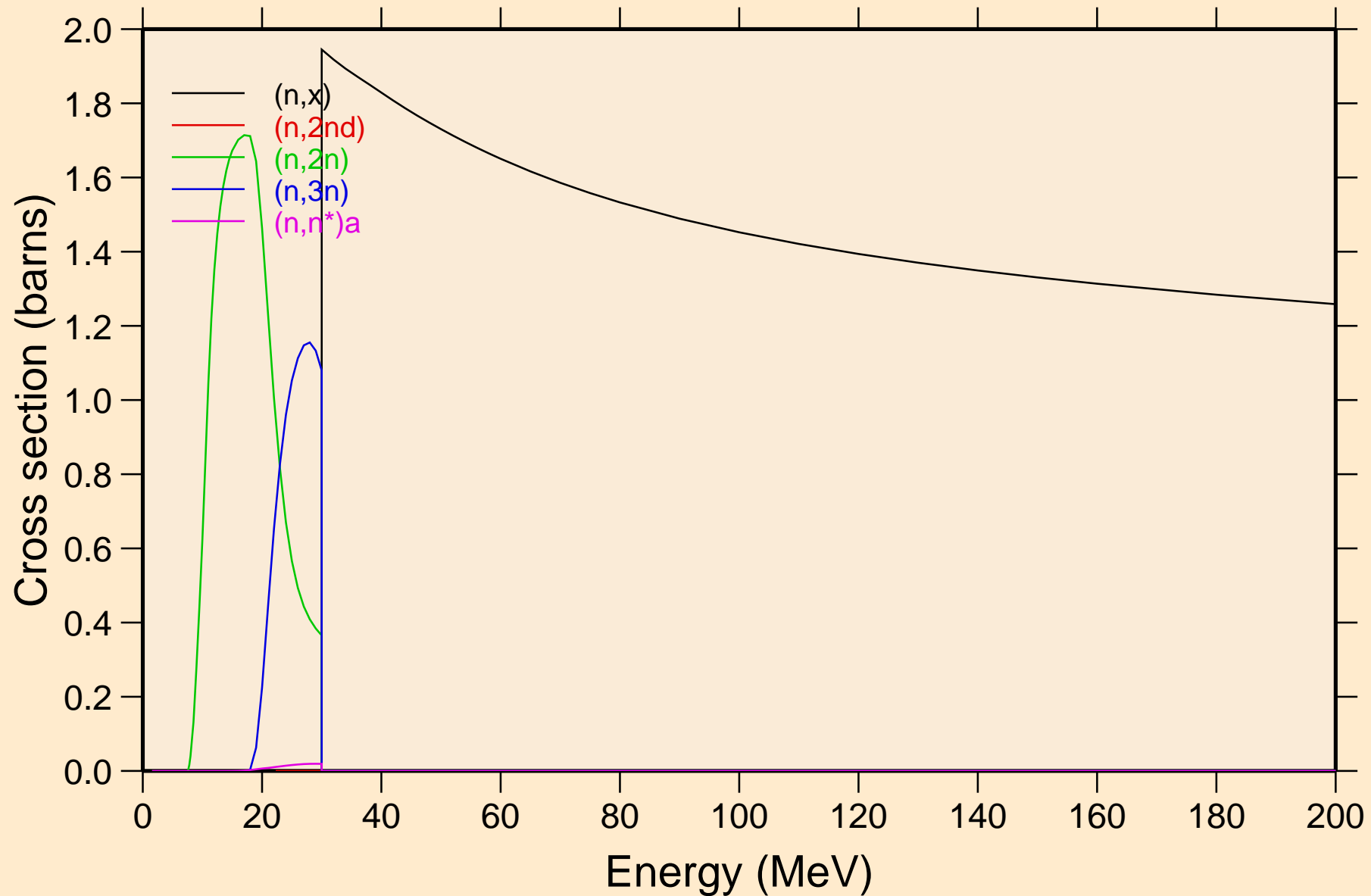
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels





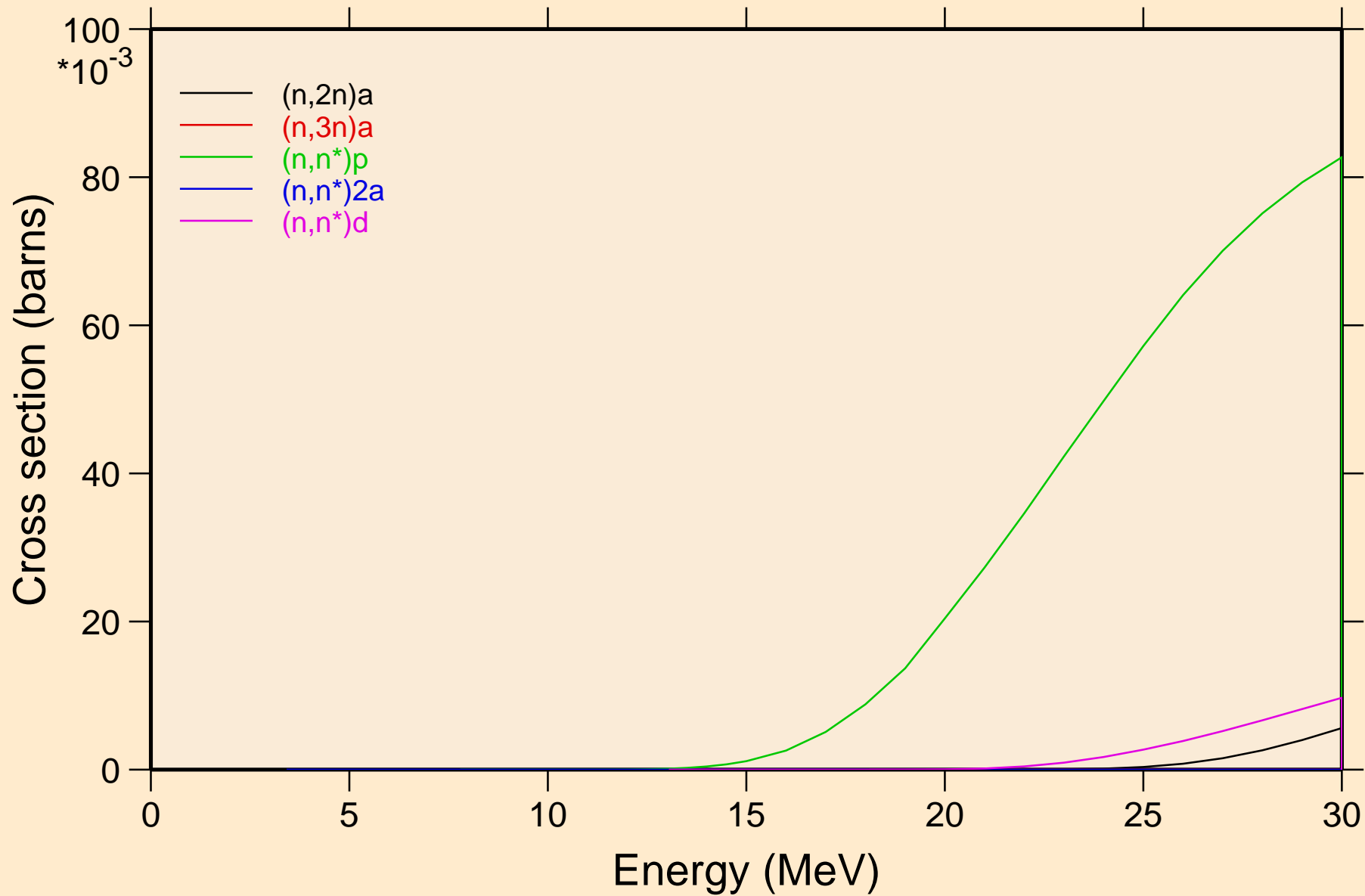
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



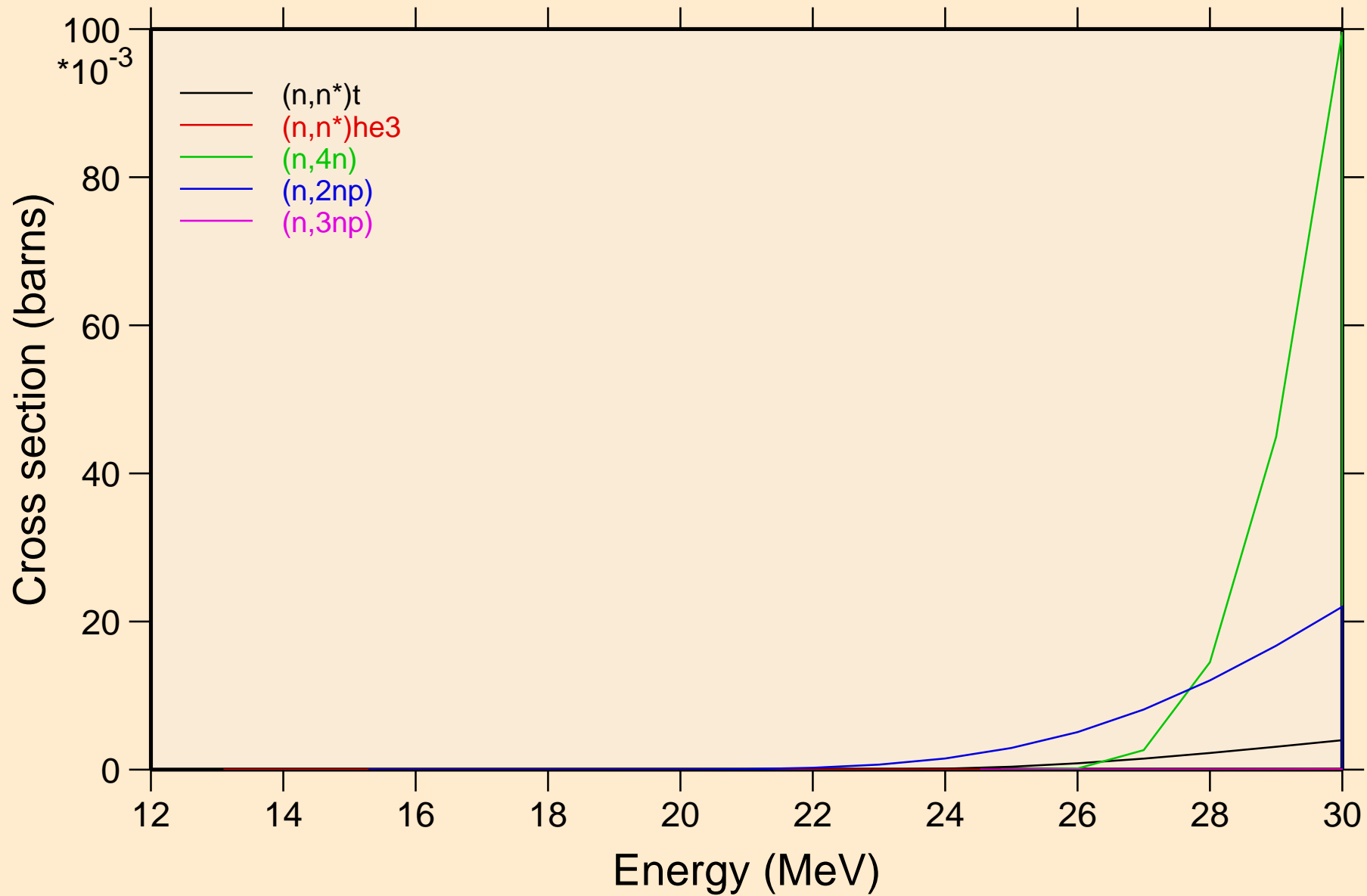
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



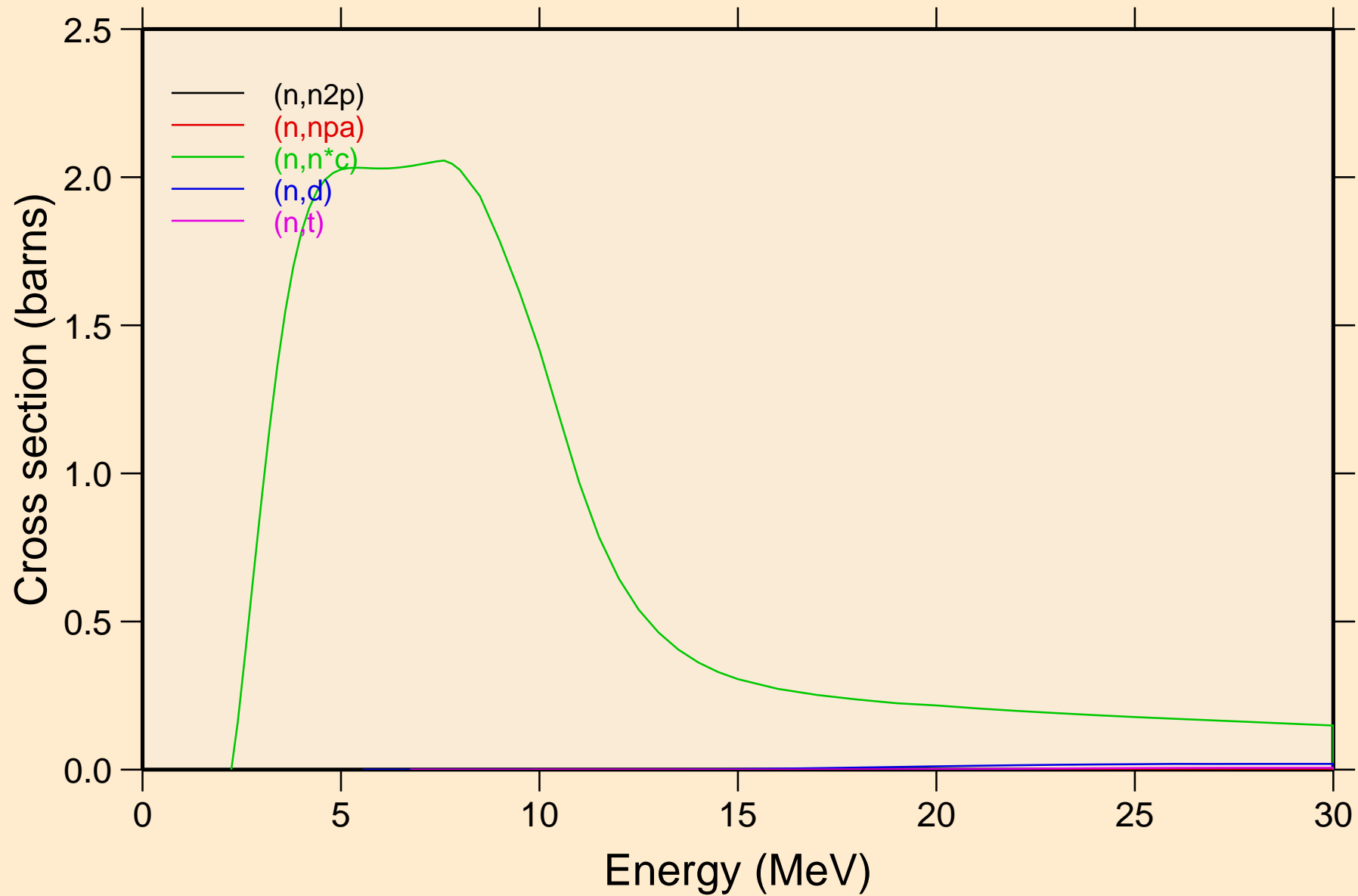
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



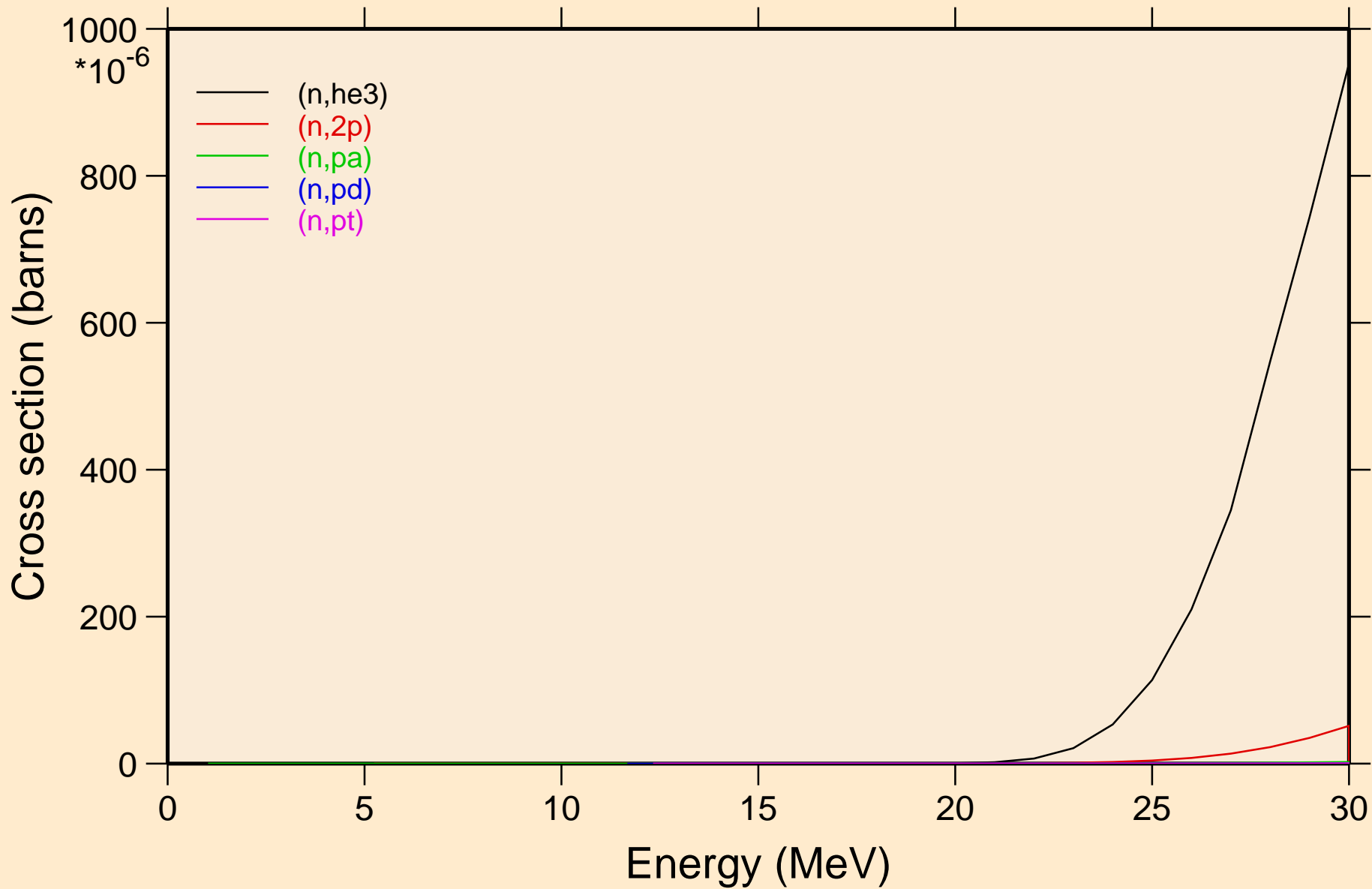
# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

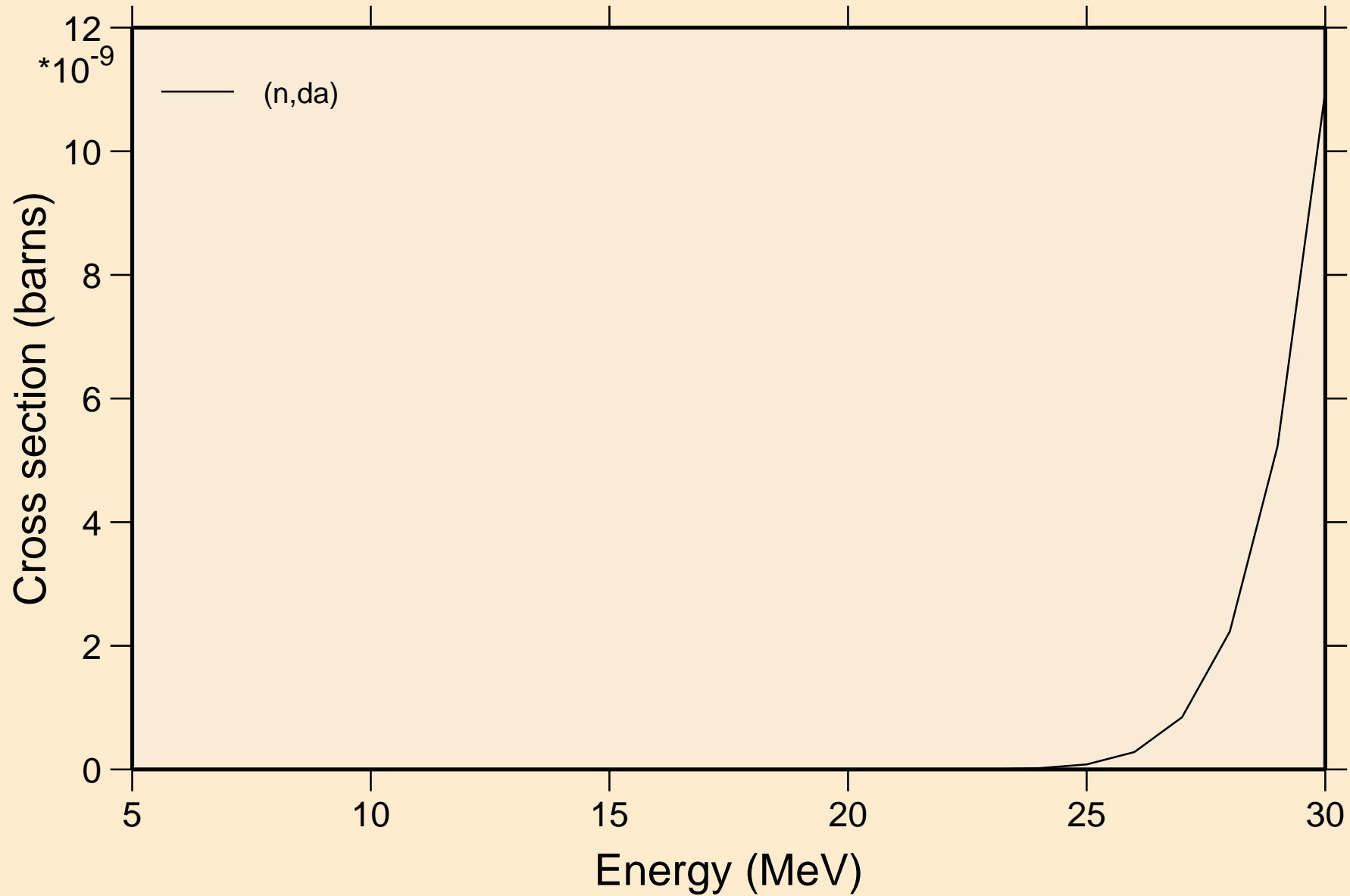


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

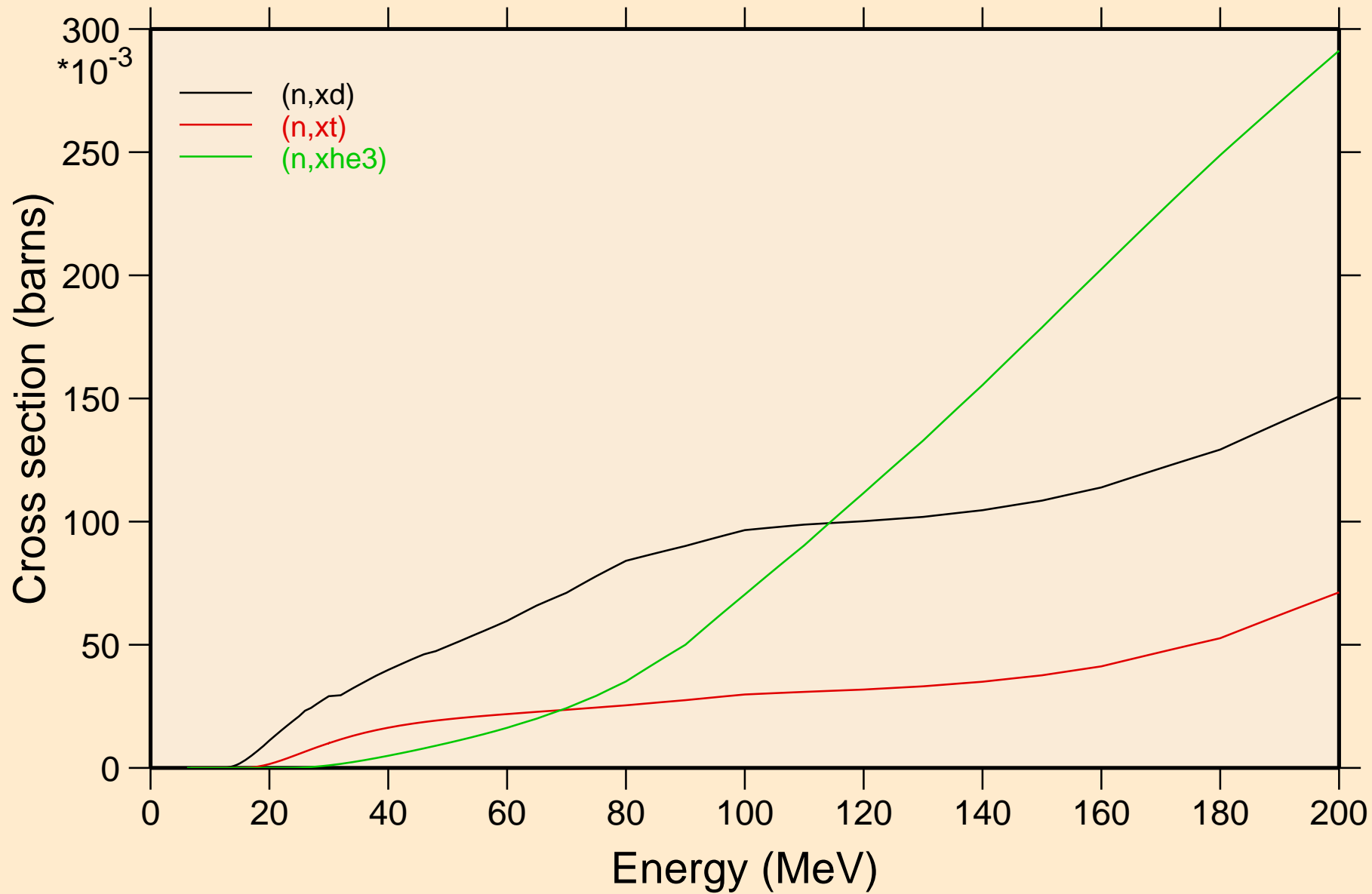
## Threshold reactions



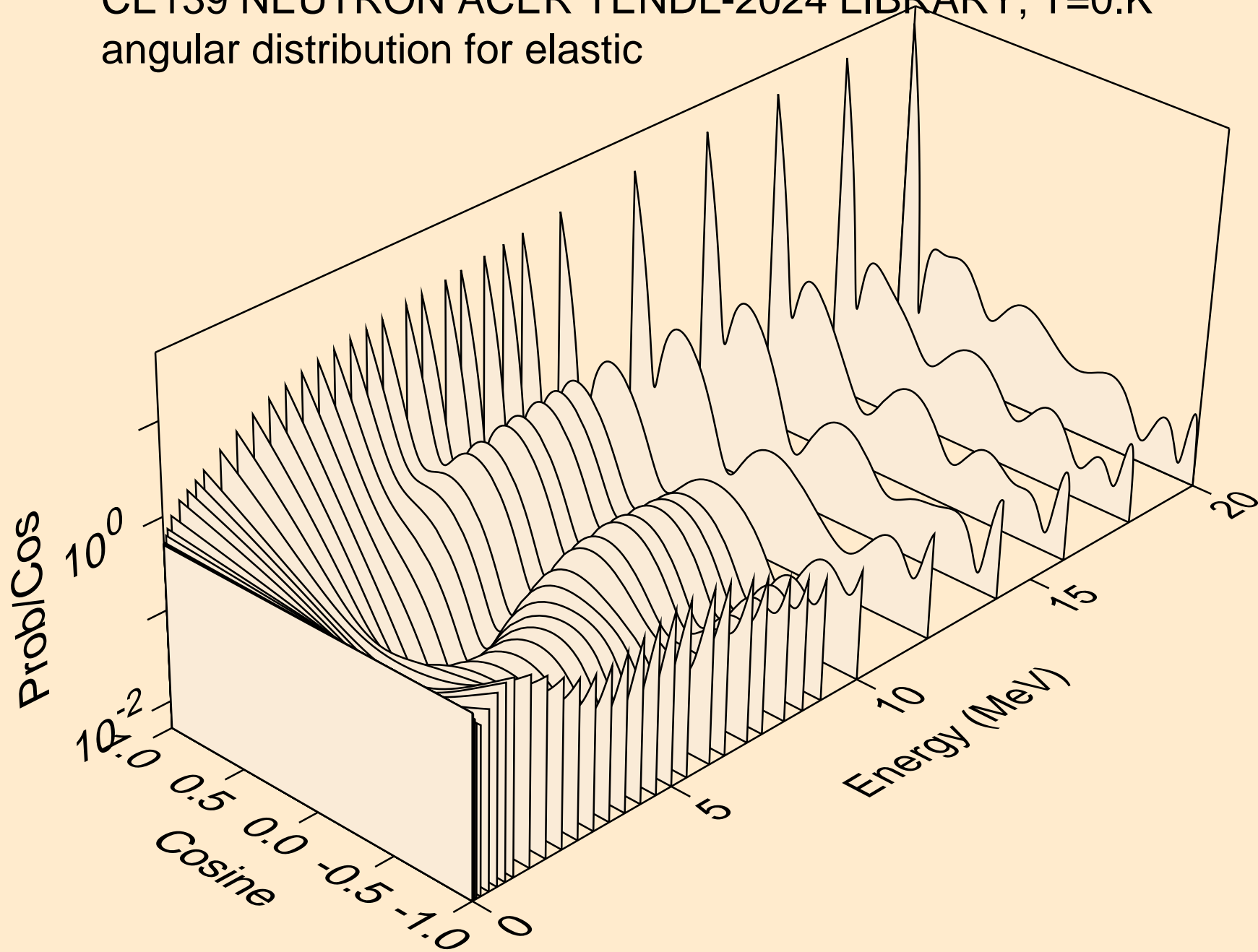
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

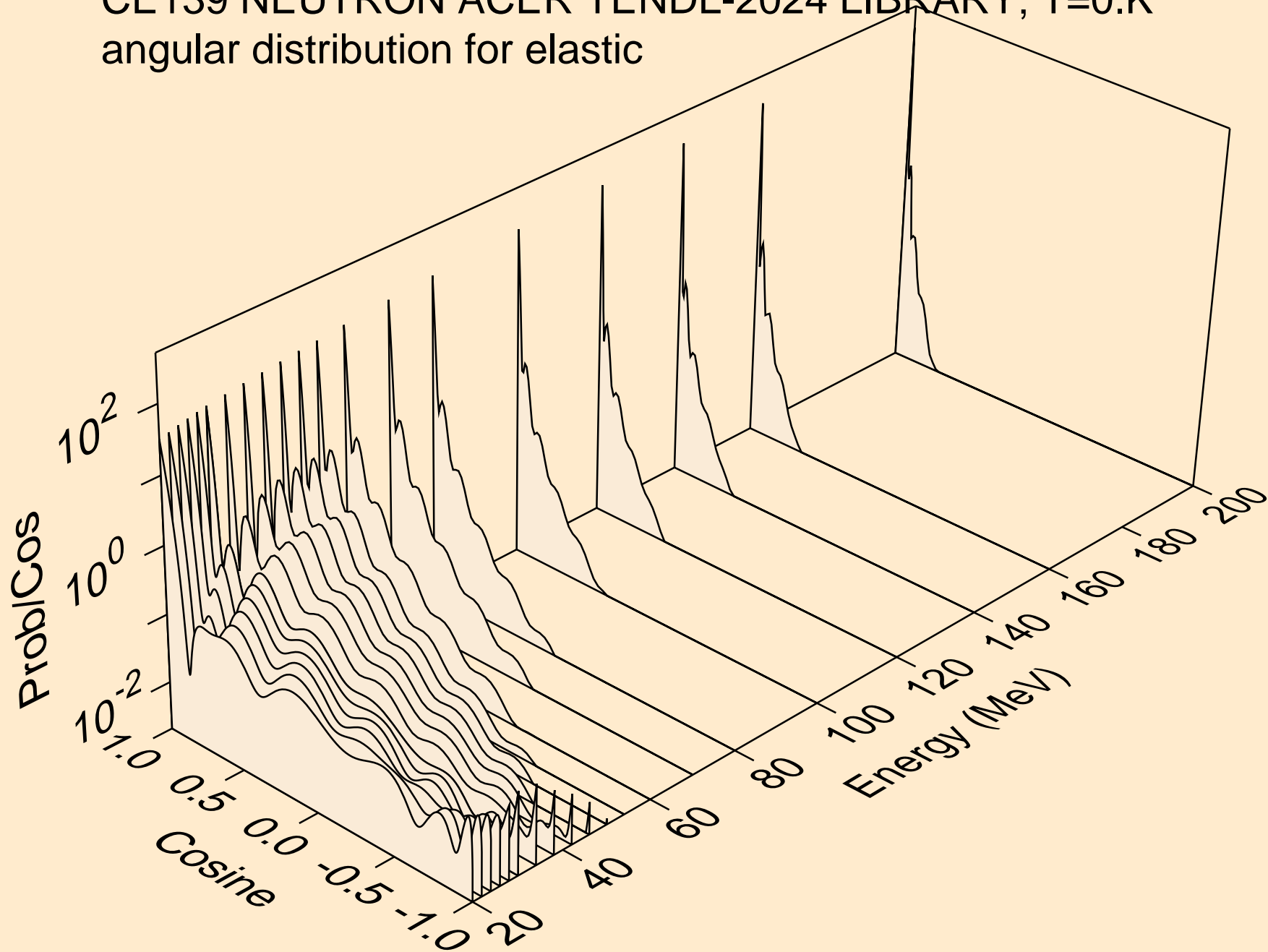


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

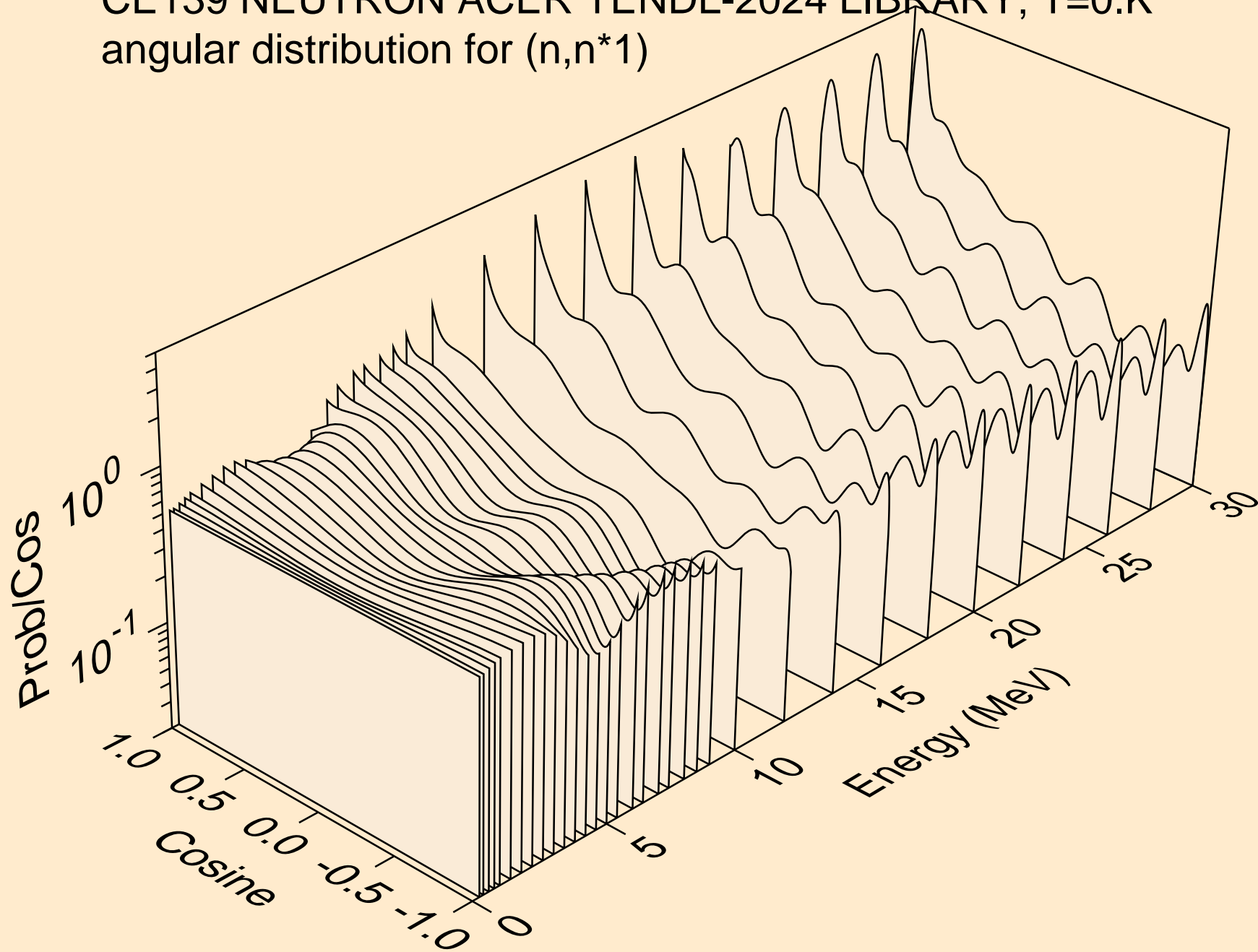




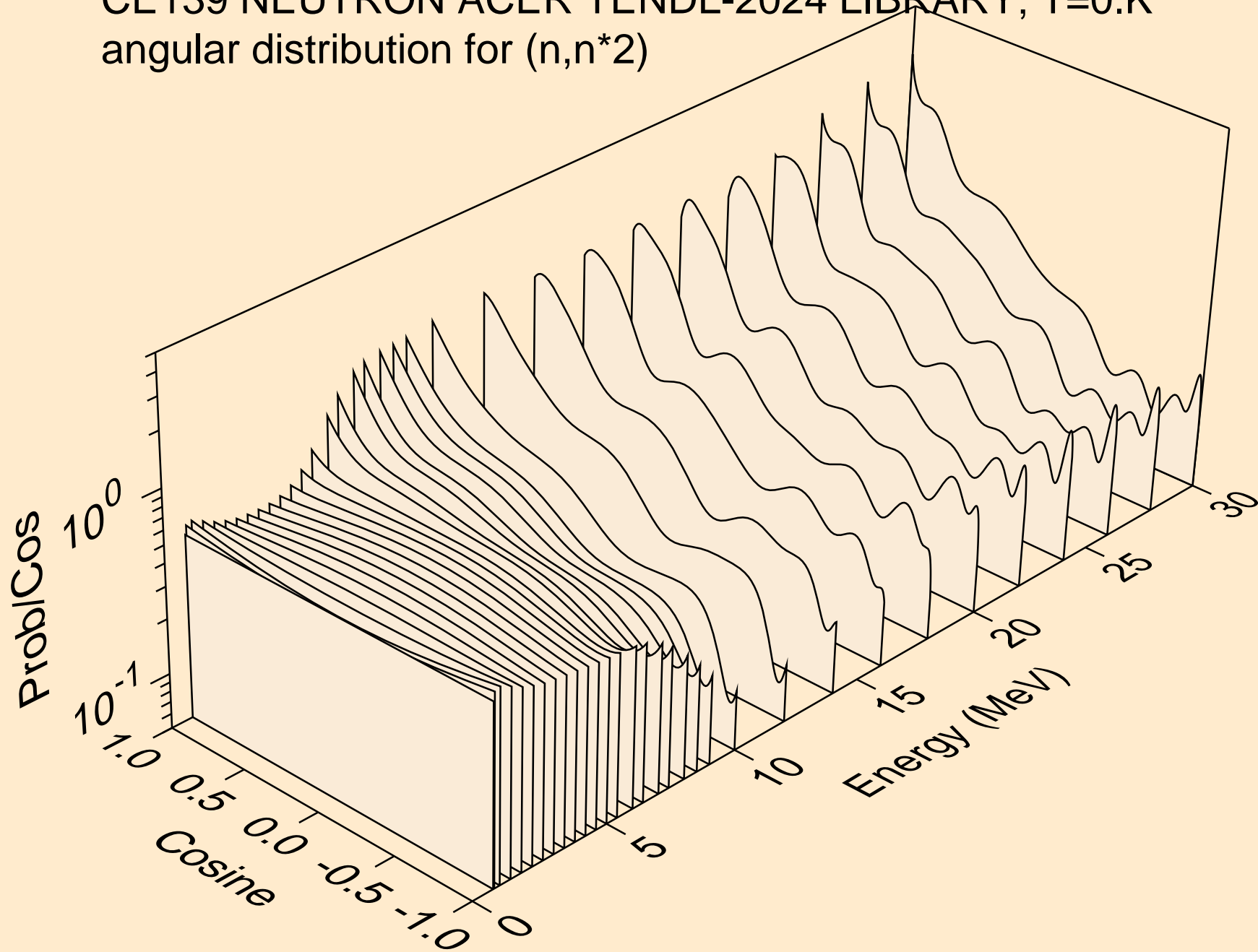
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



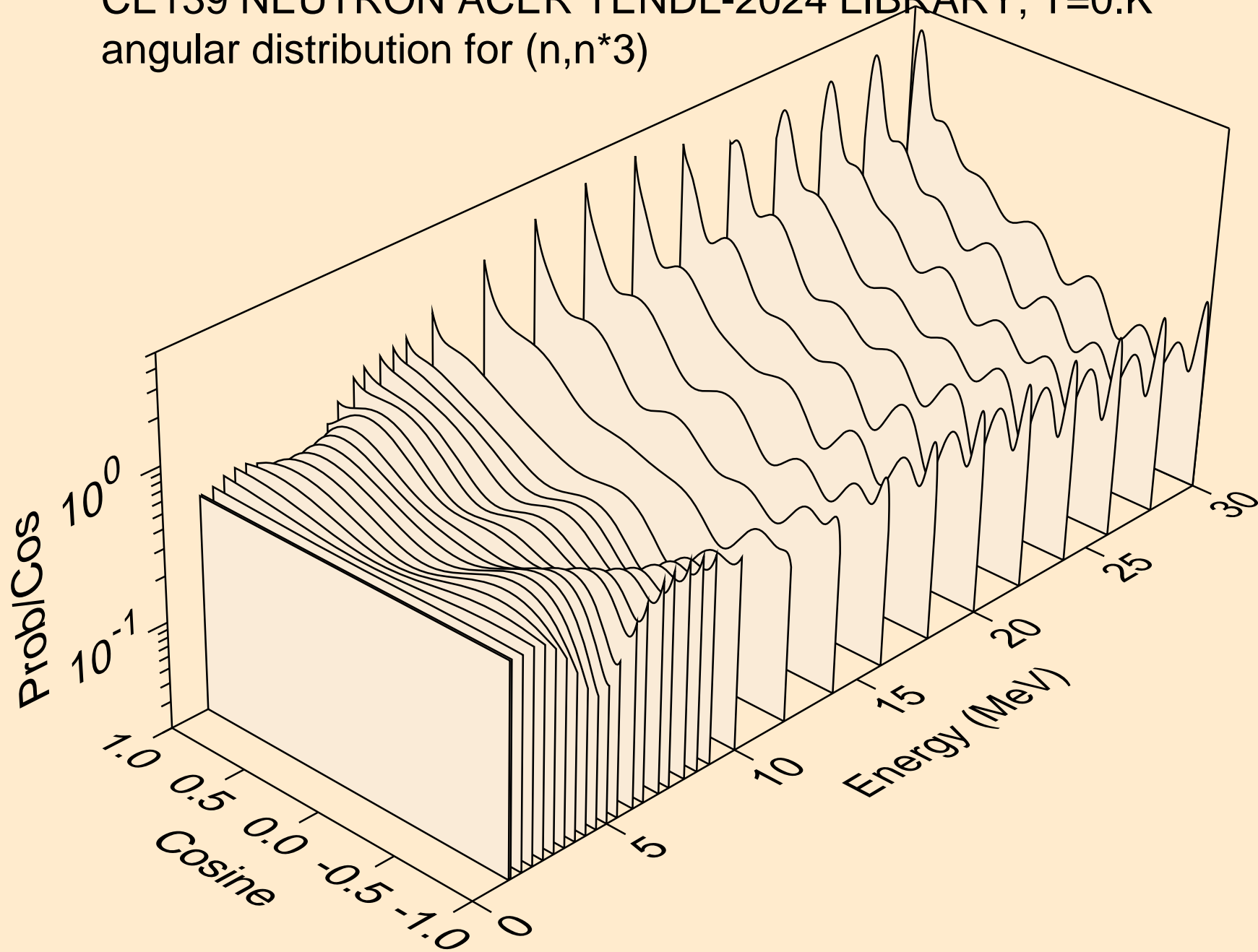
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



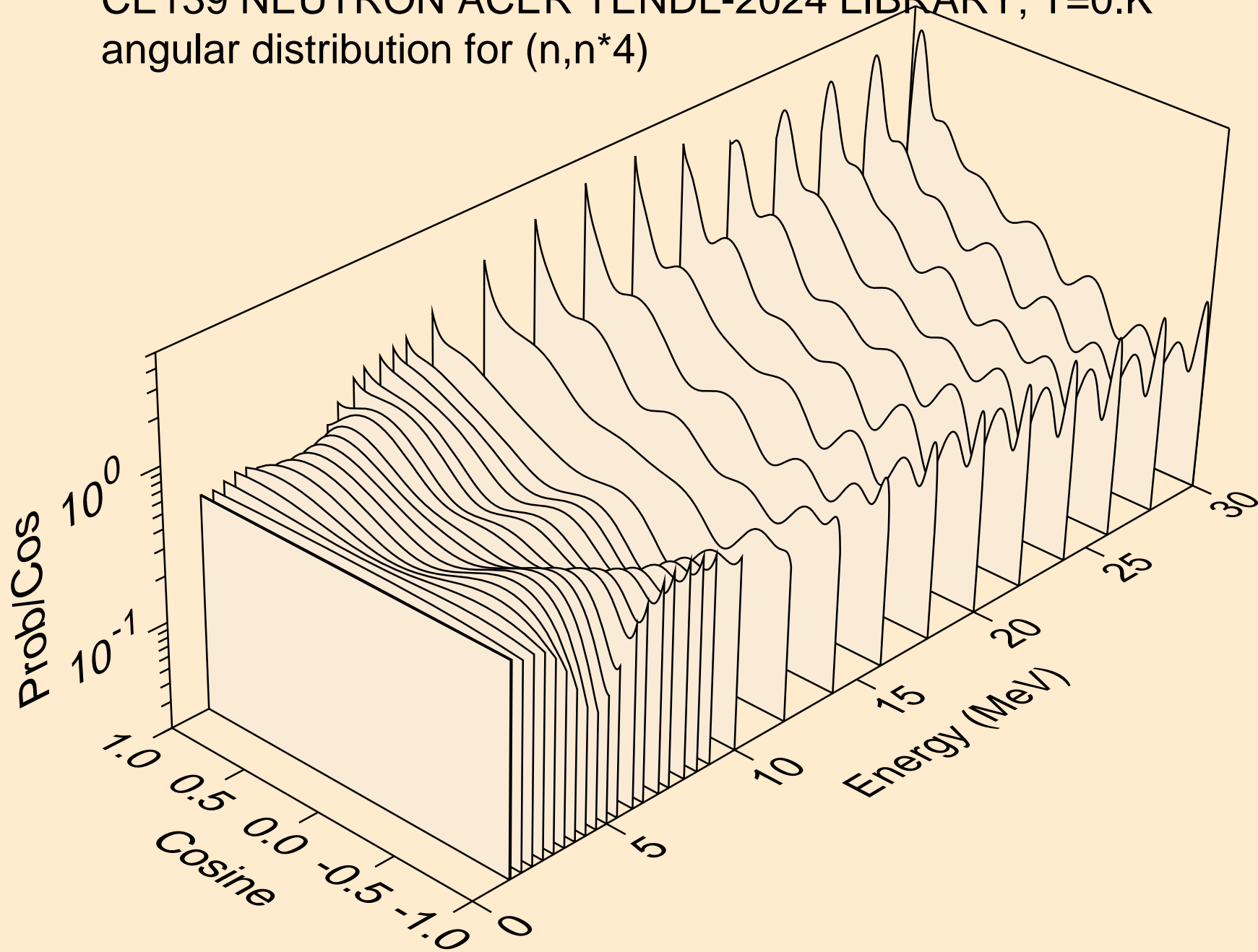
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



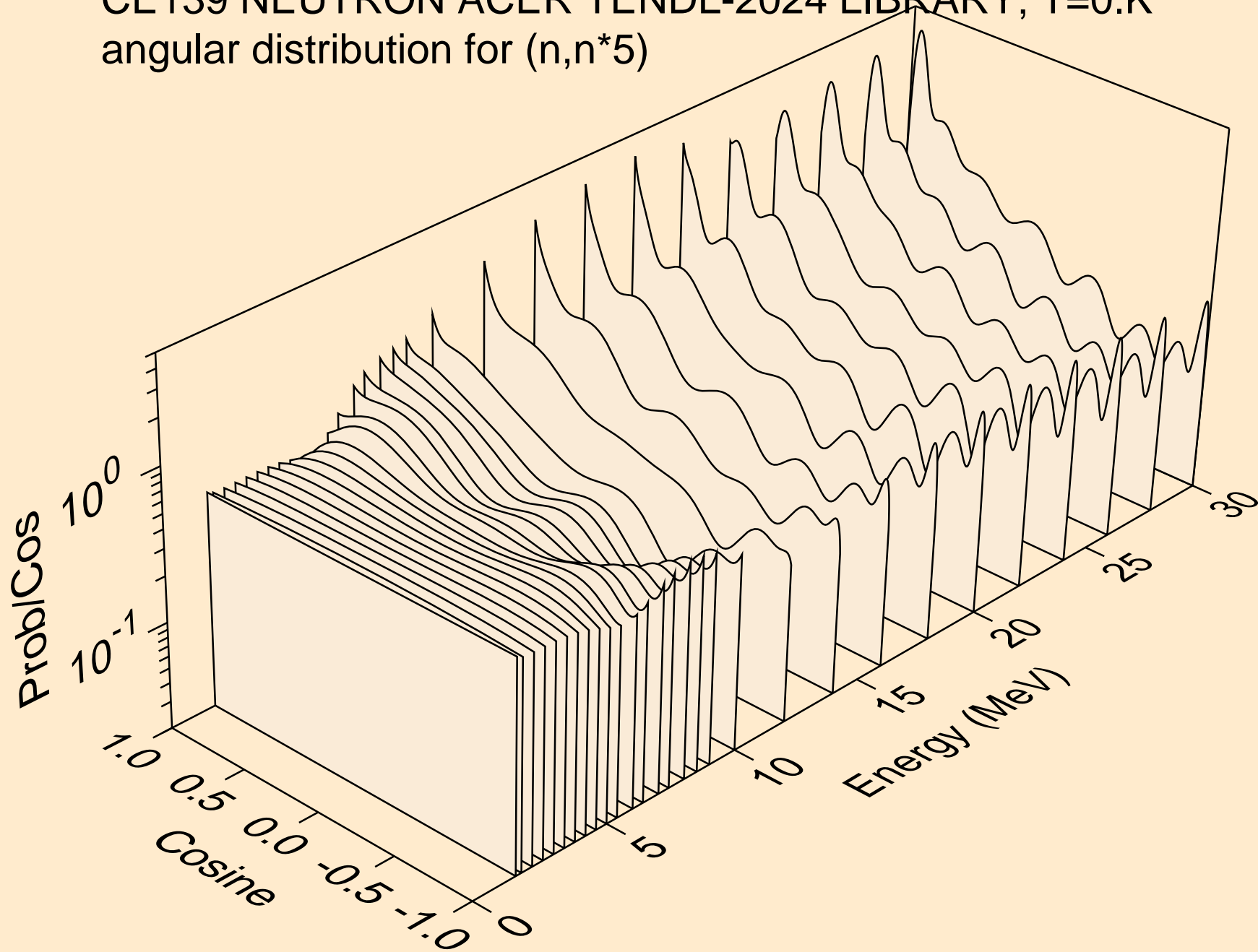
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



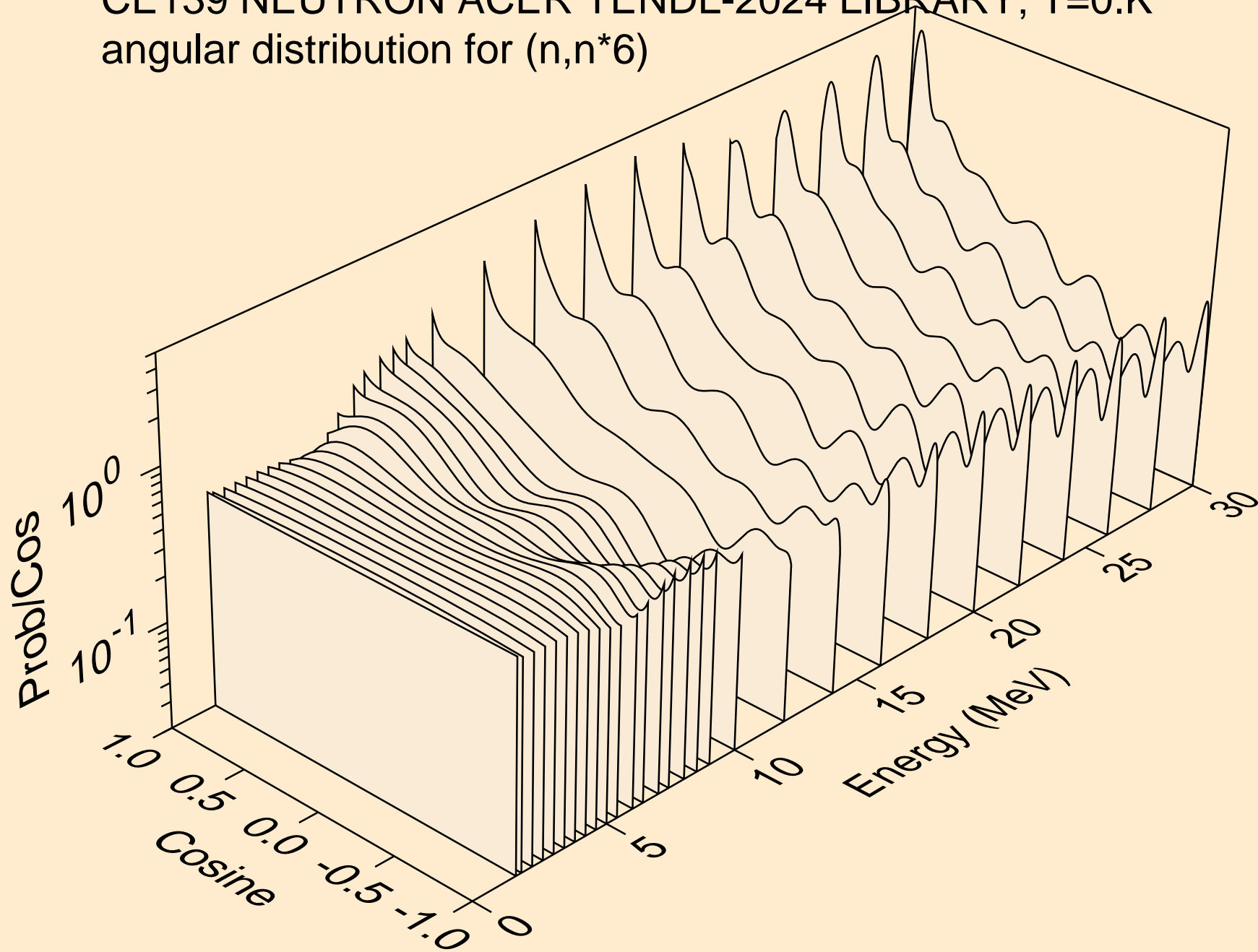
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angular distribution for (n,n\*4)



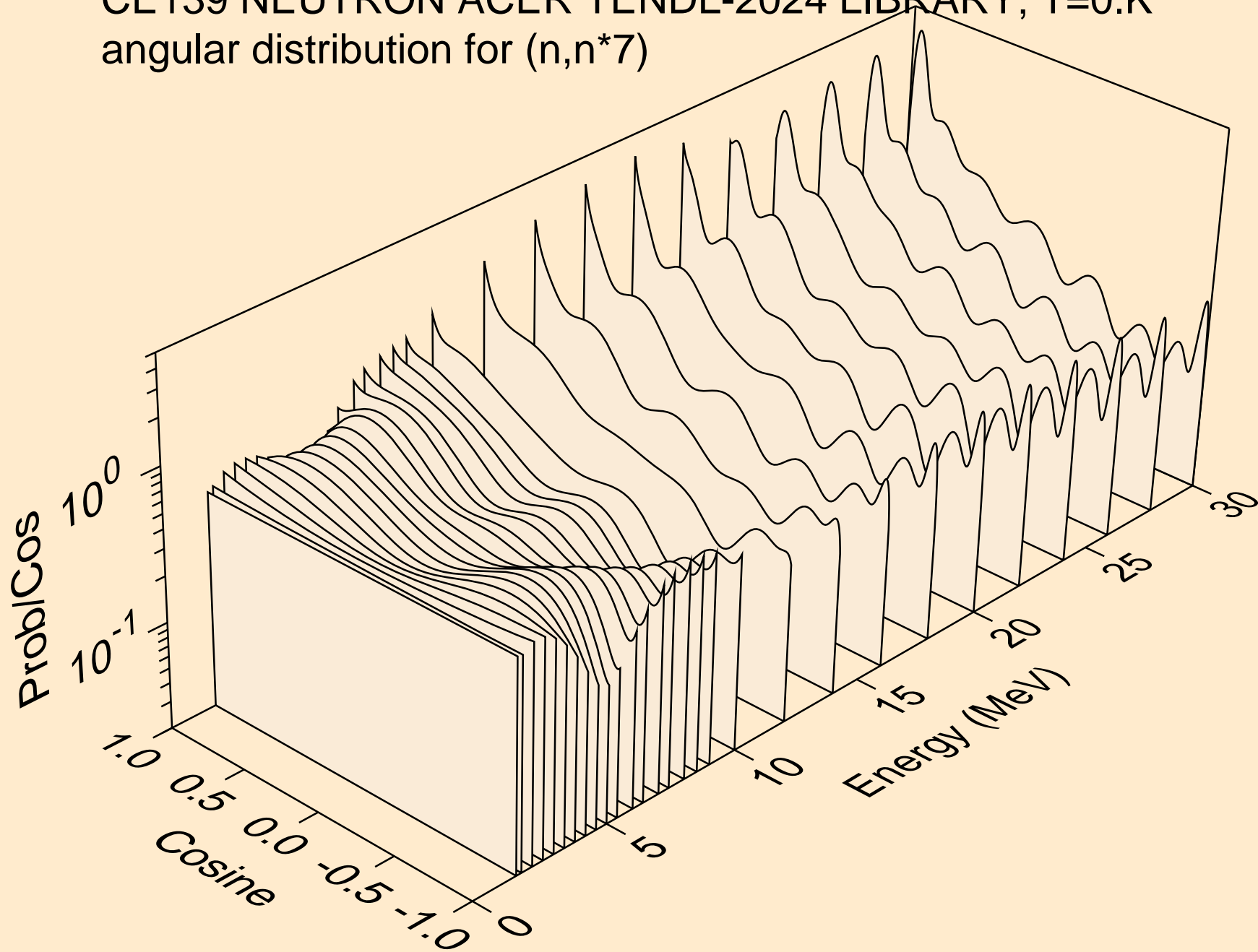
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)

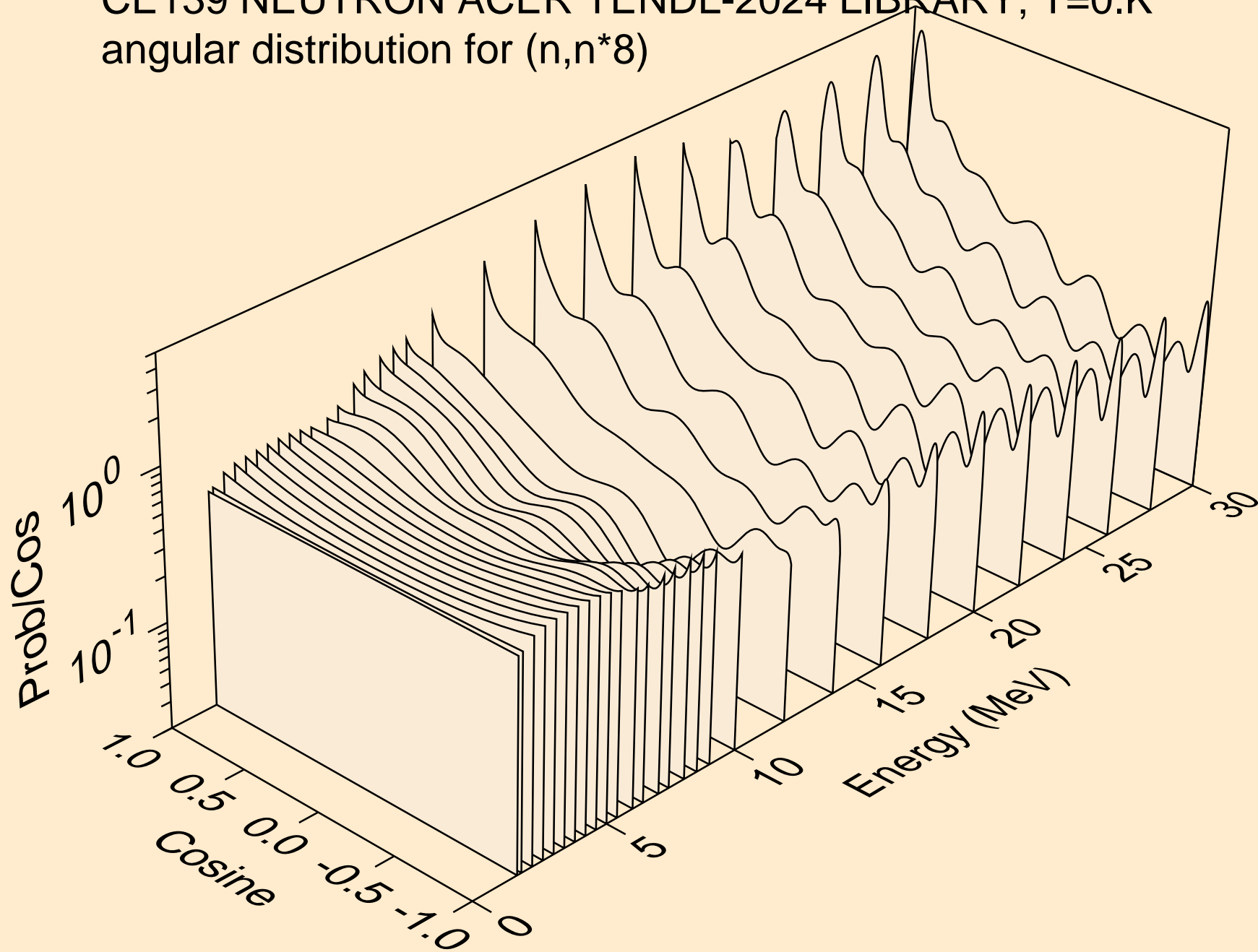


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)

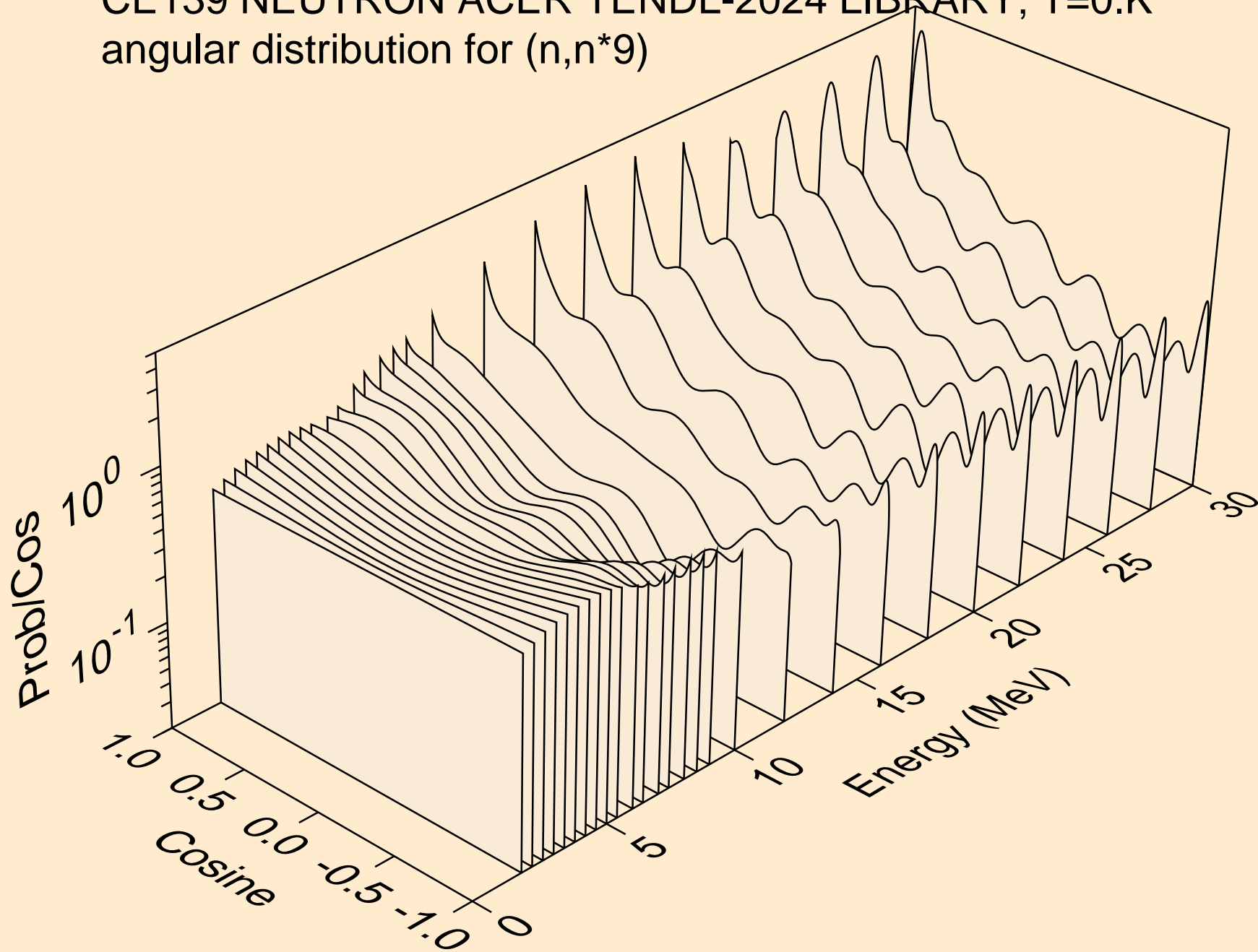




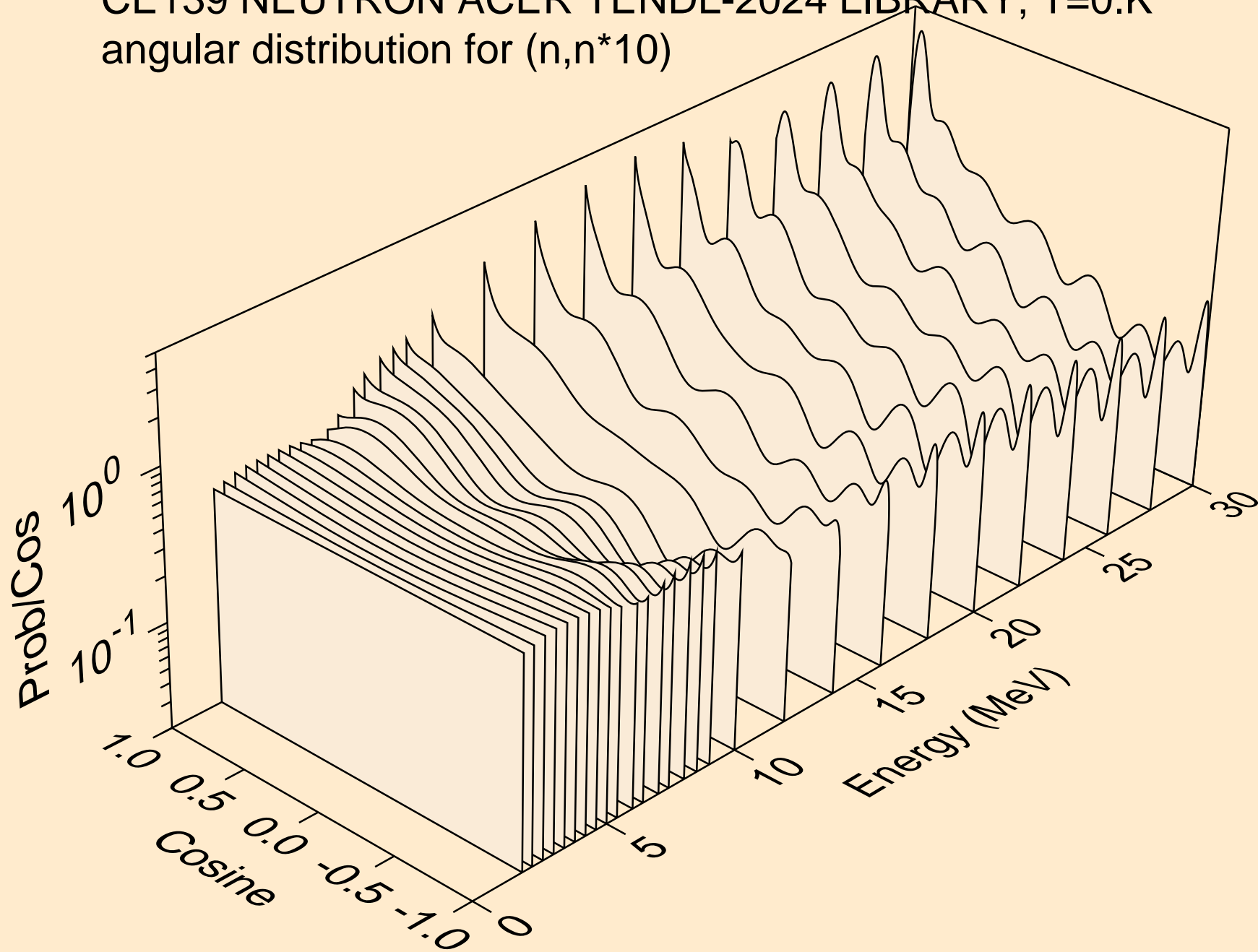
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



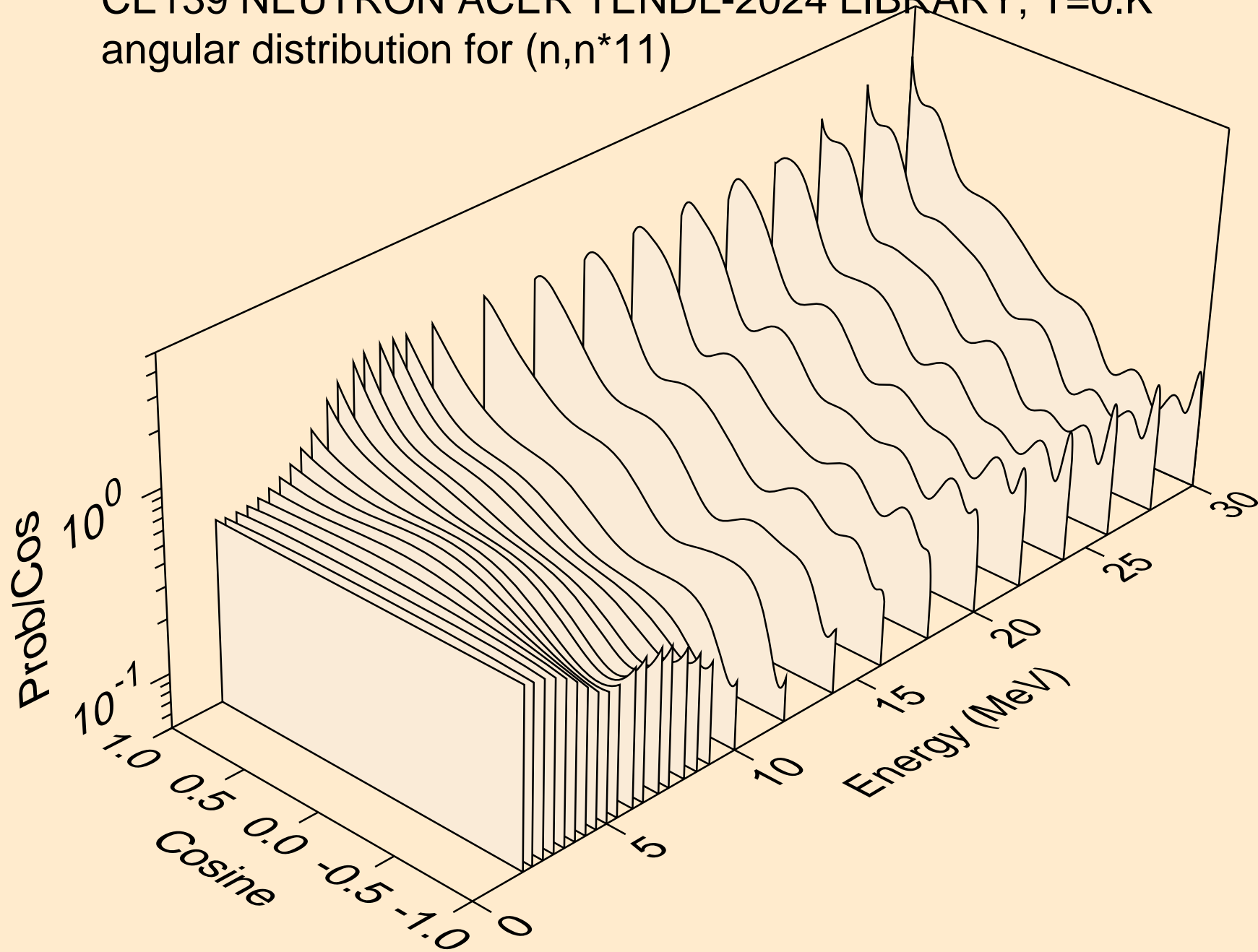
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



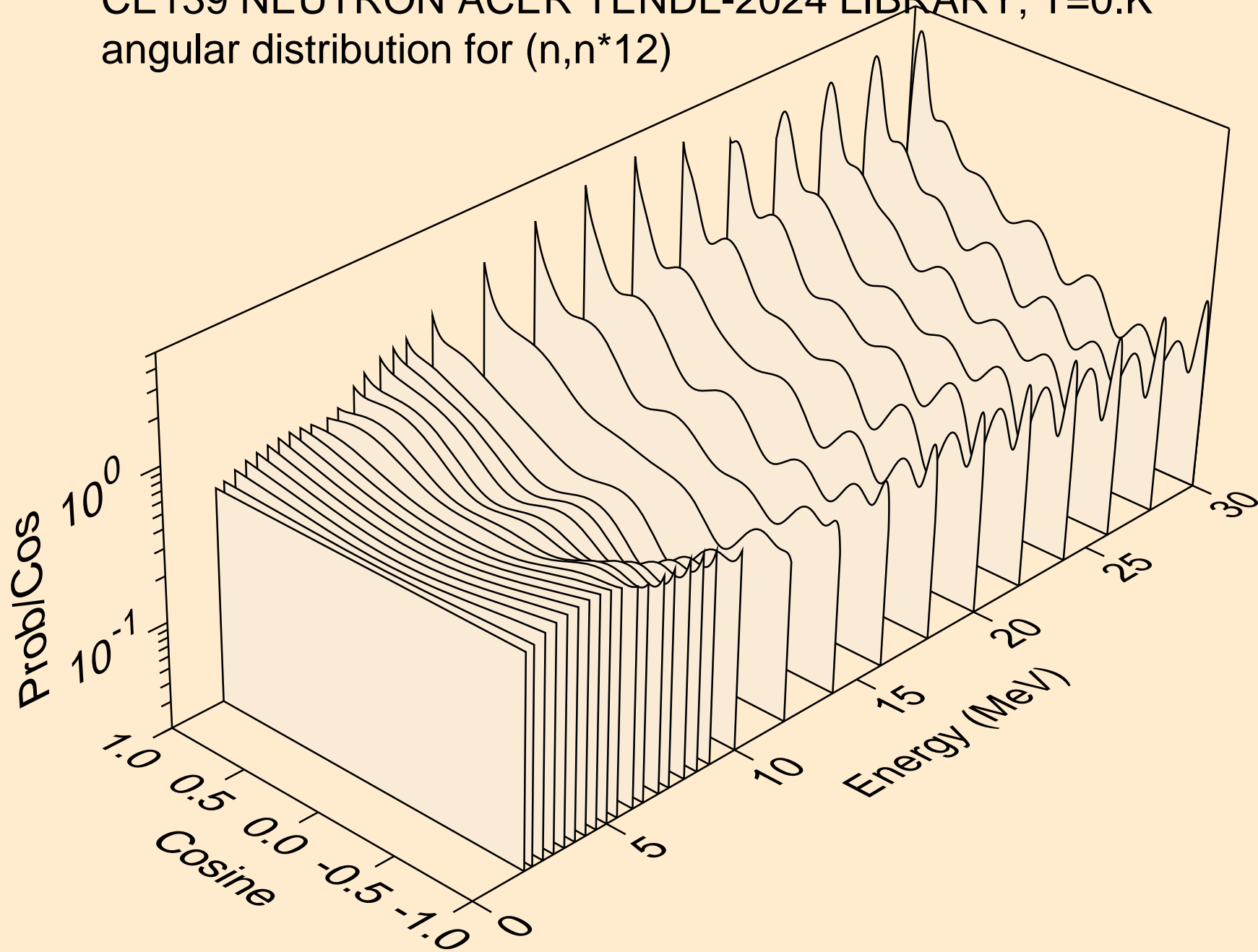
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angular distribution for (n,n\*10)



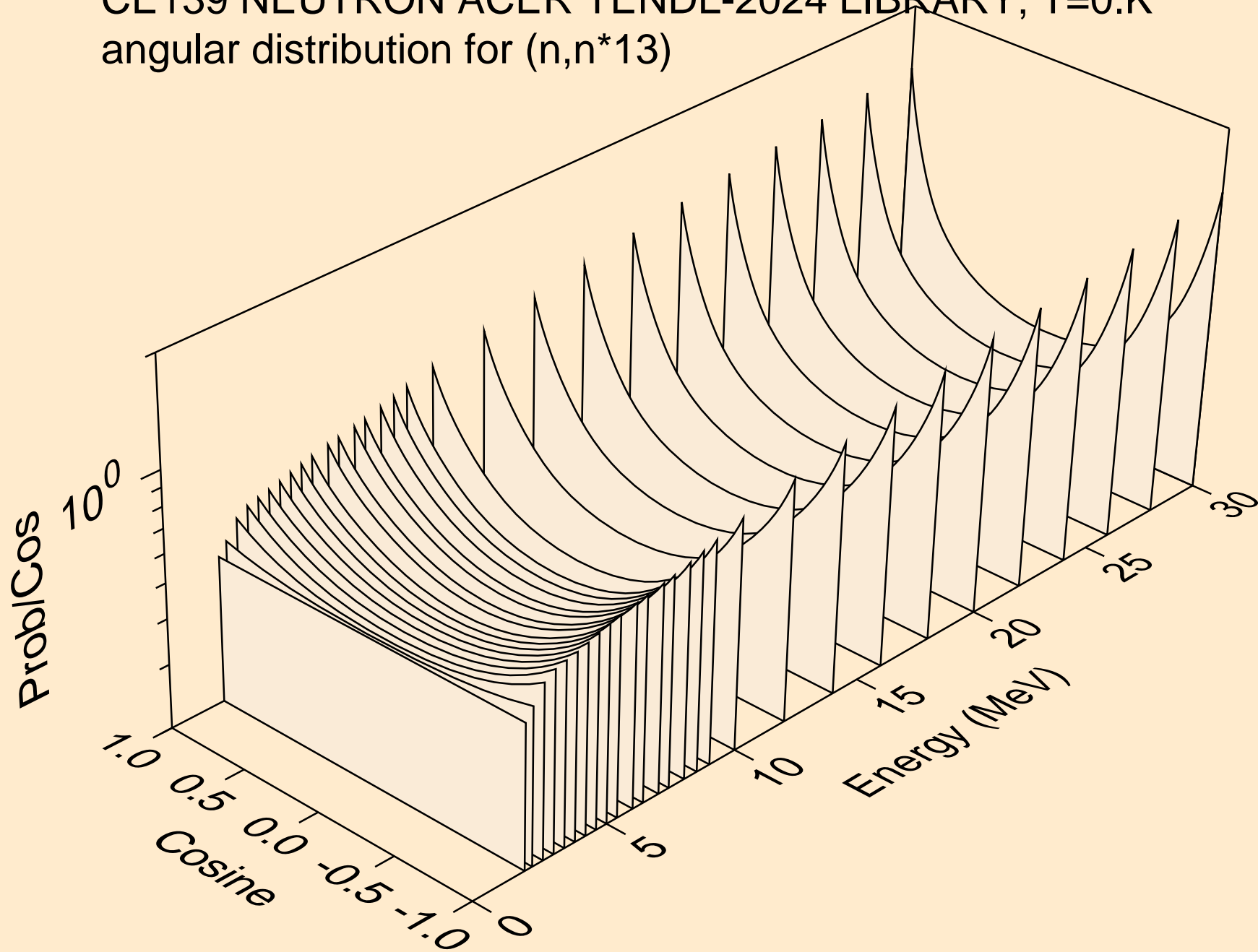
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



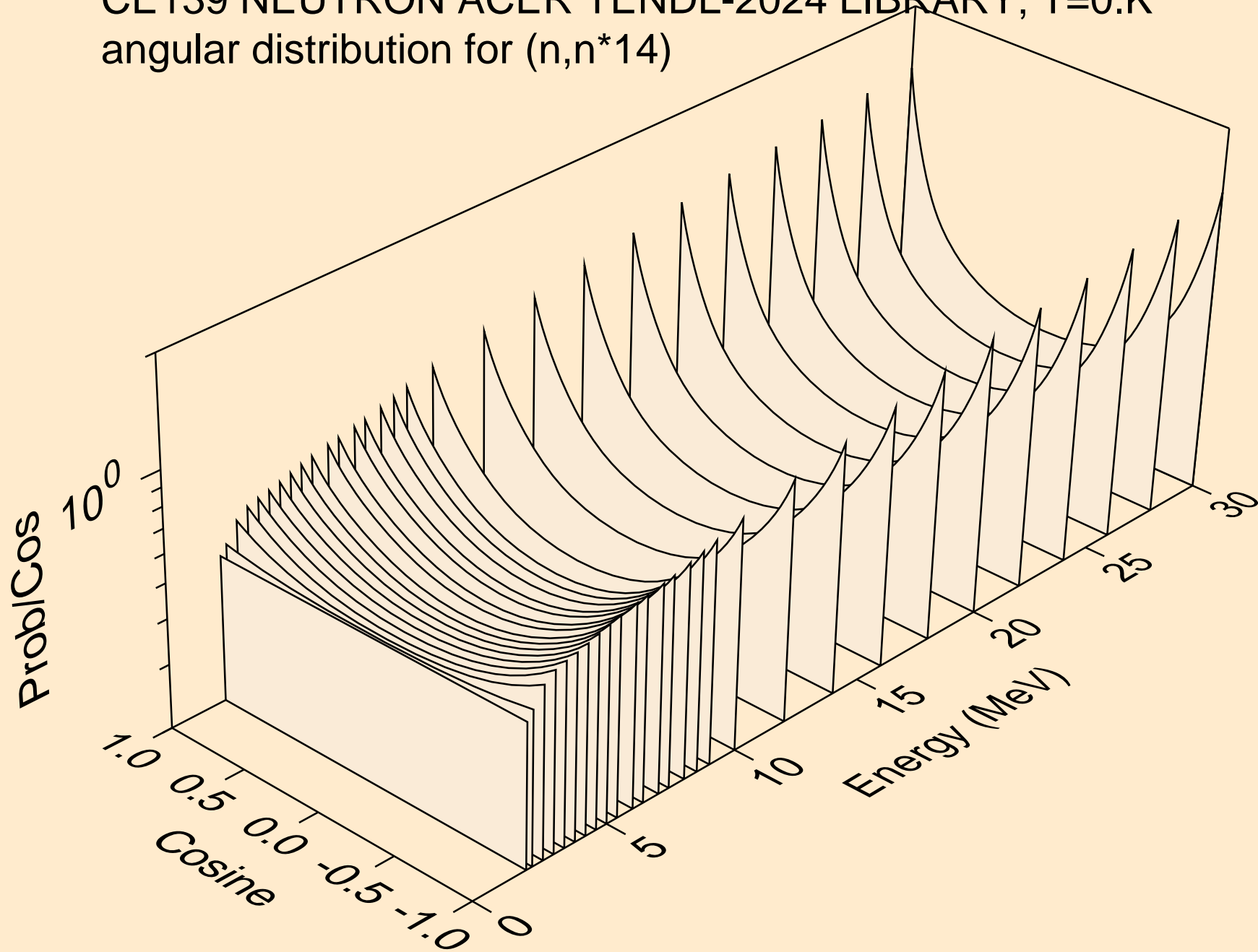
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angular distribution for (n,n\*12)



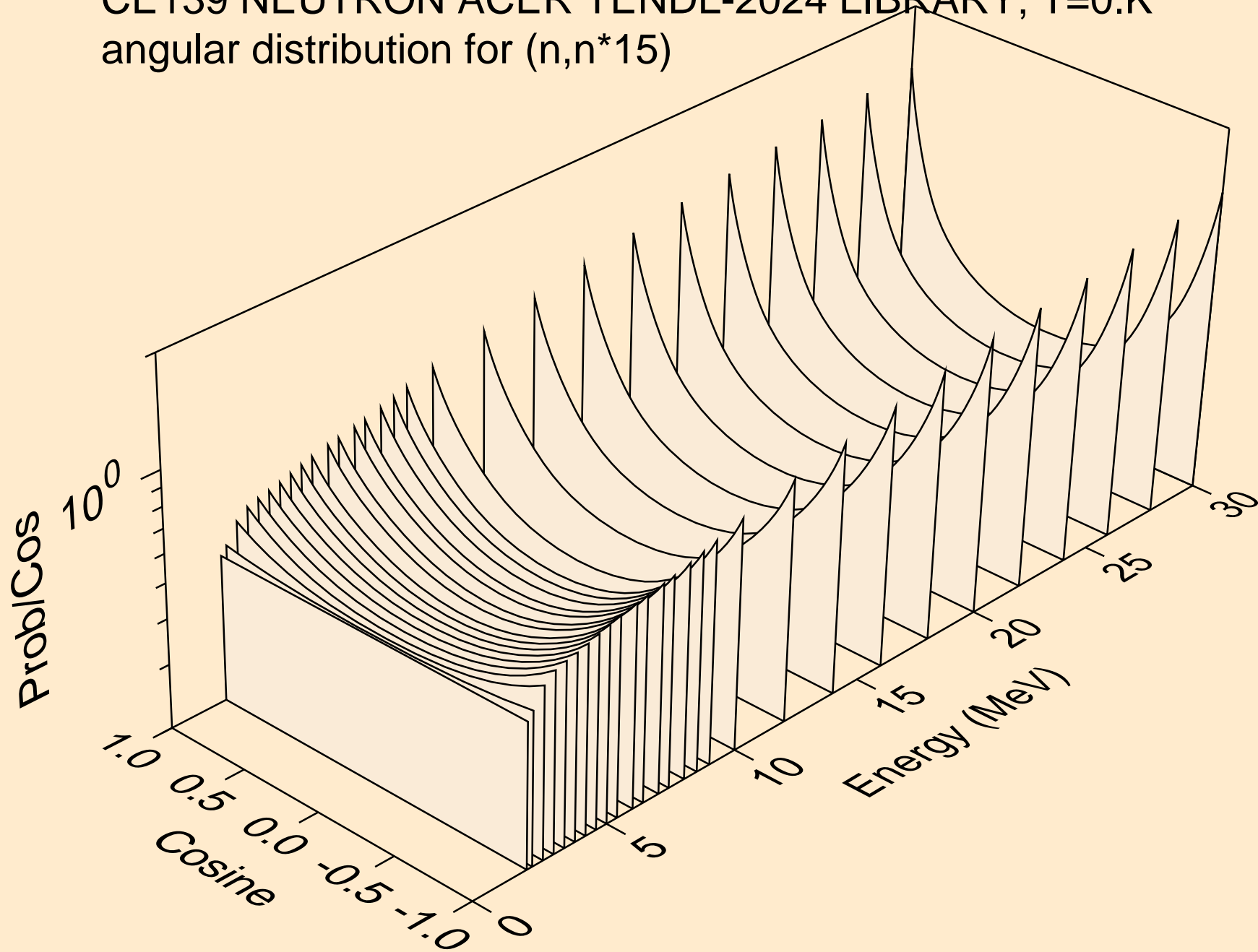
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)

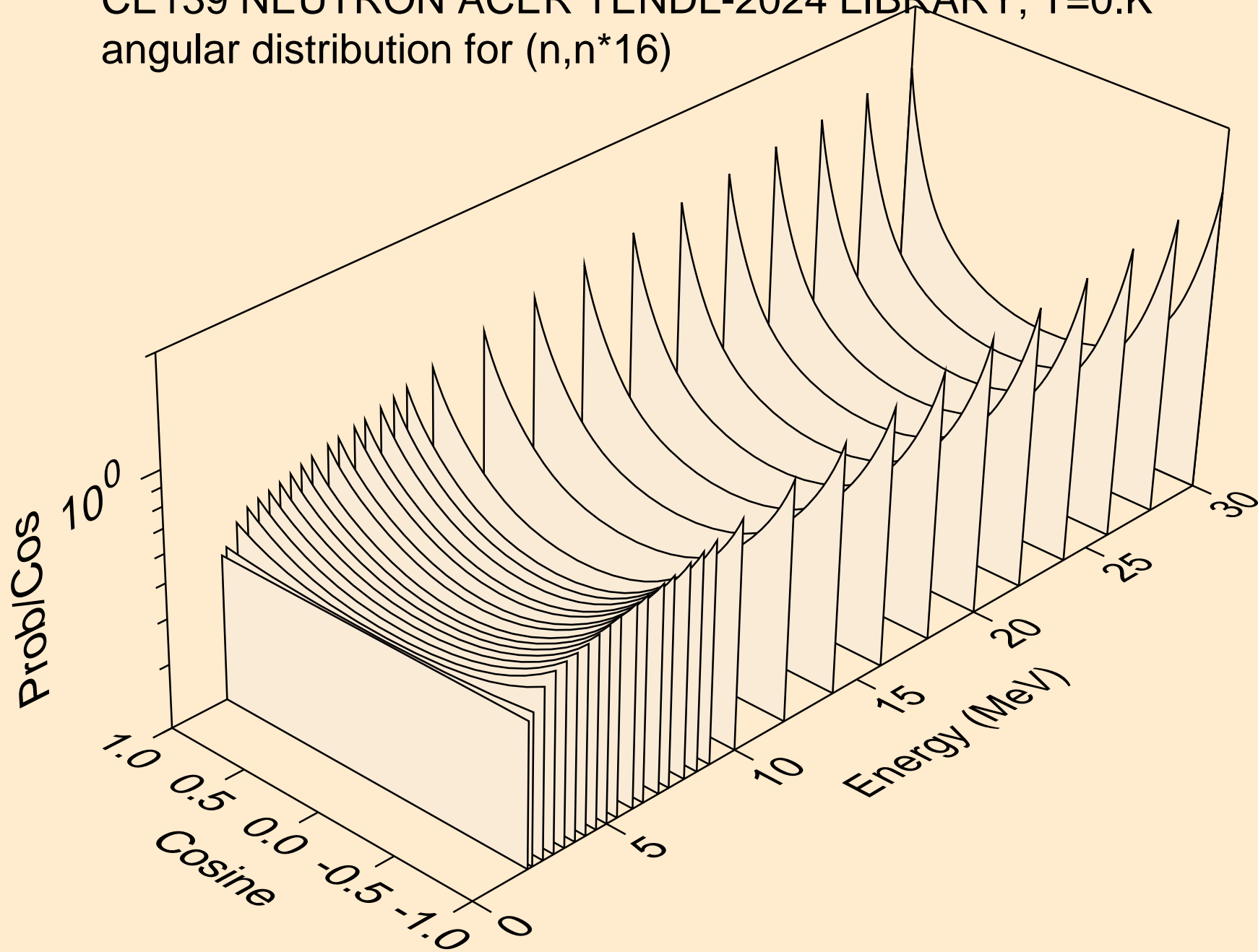


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*15)

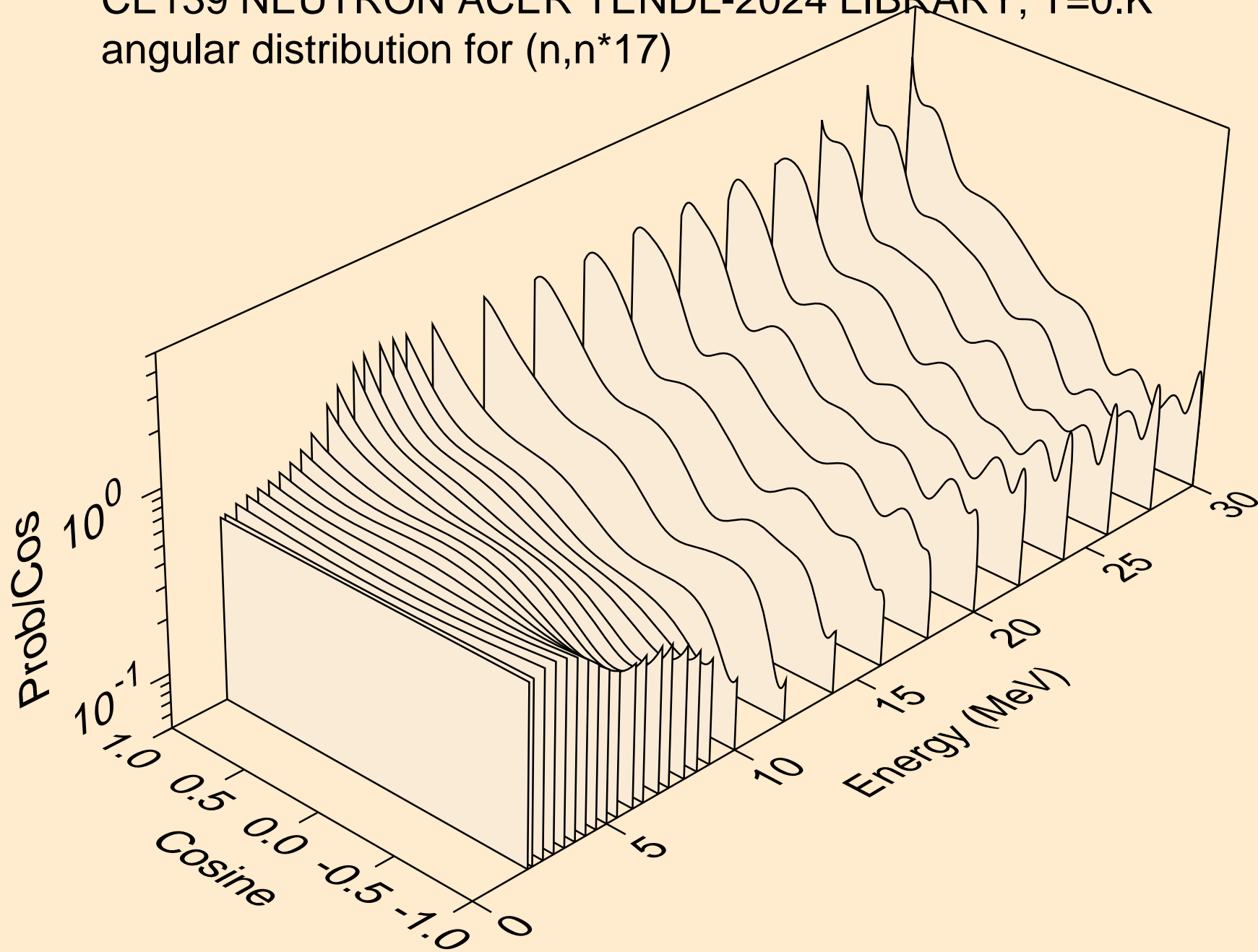




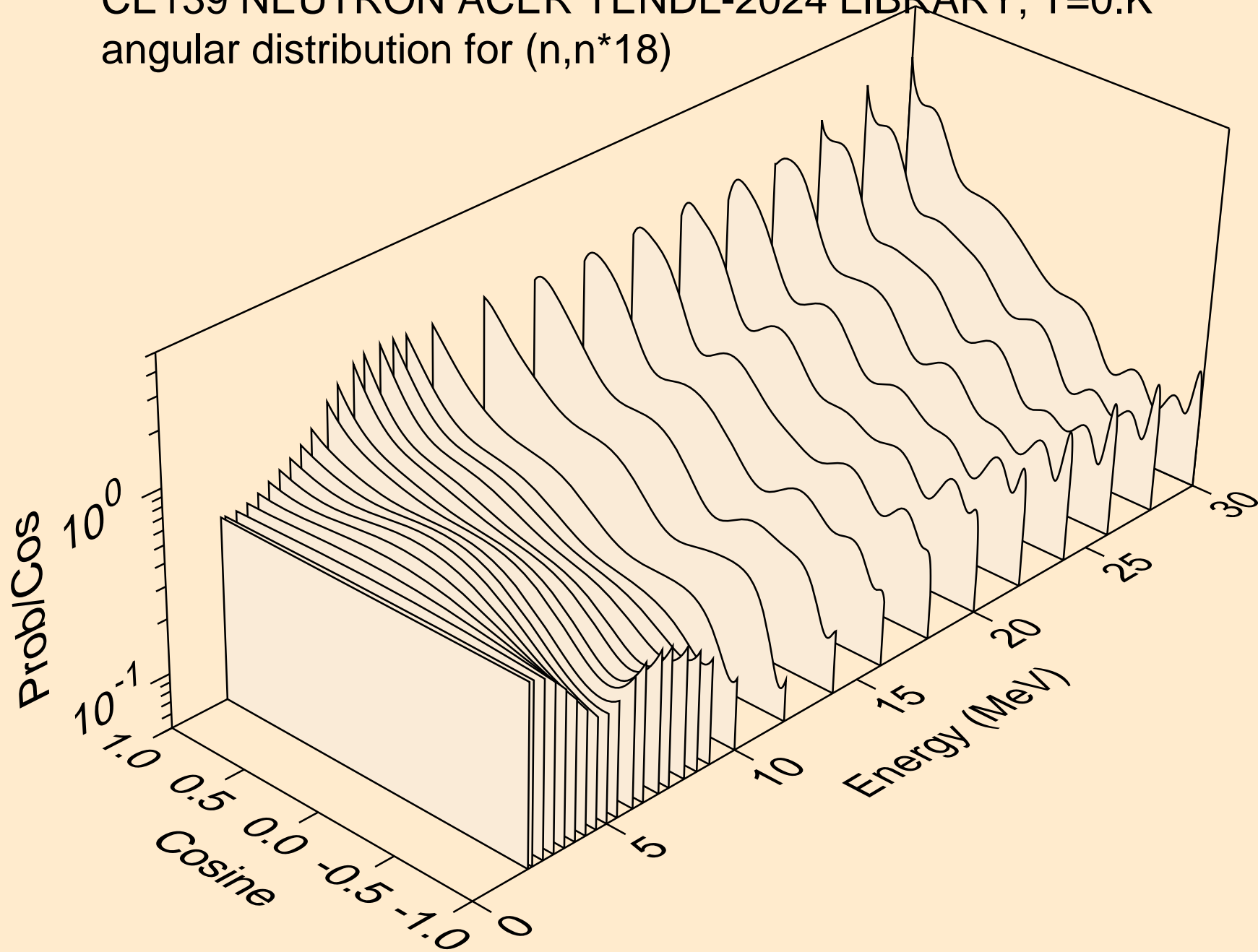
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



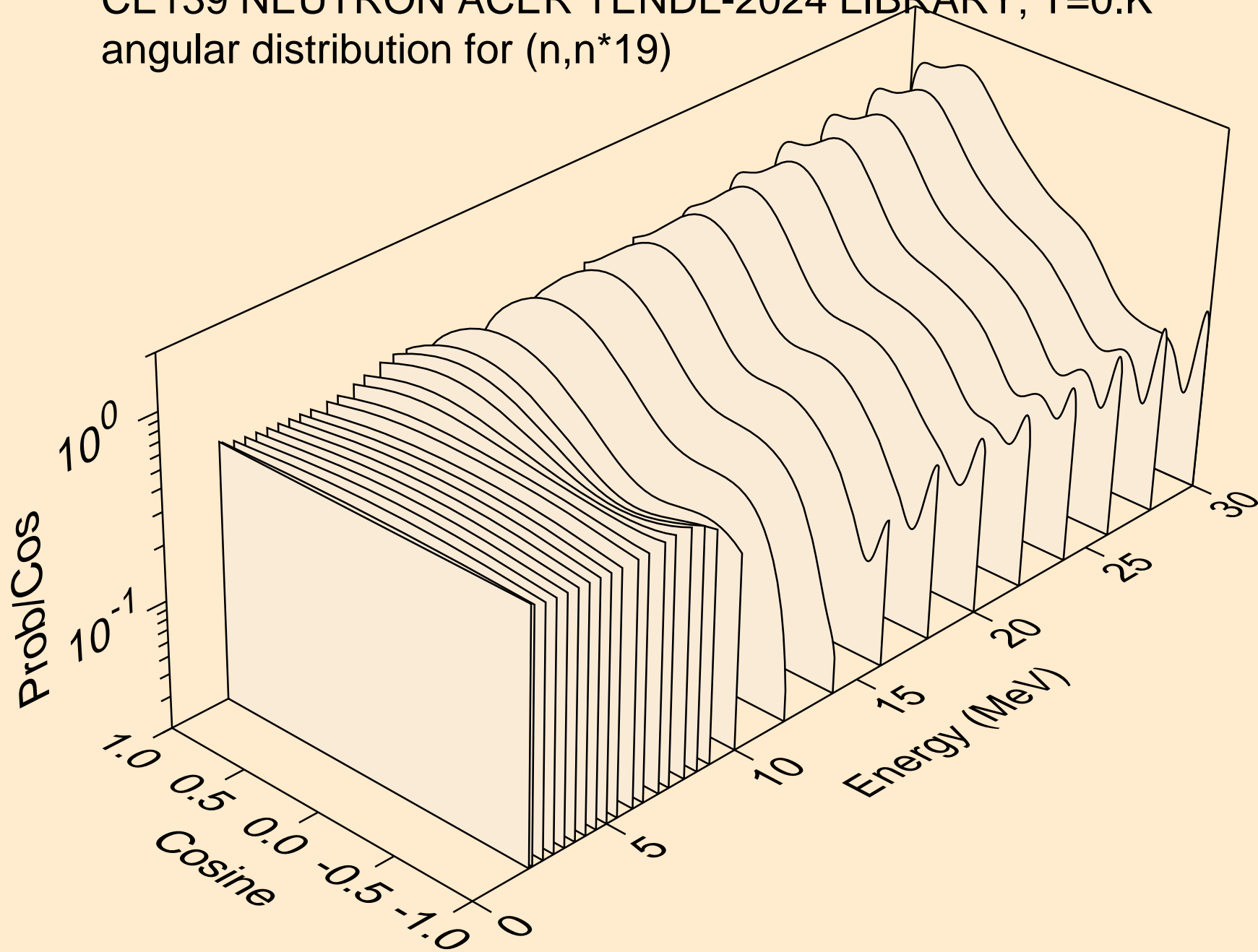
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angular distribution for (n,n\*17)



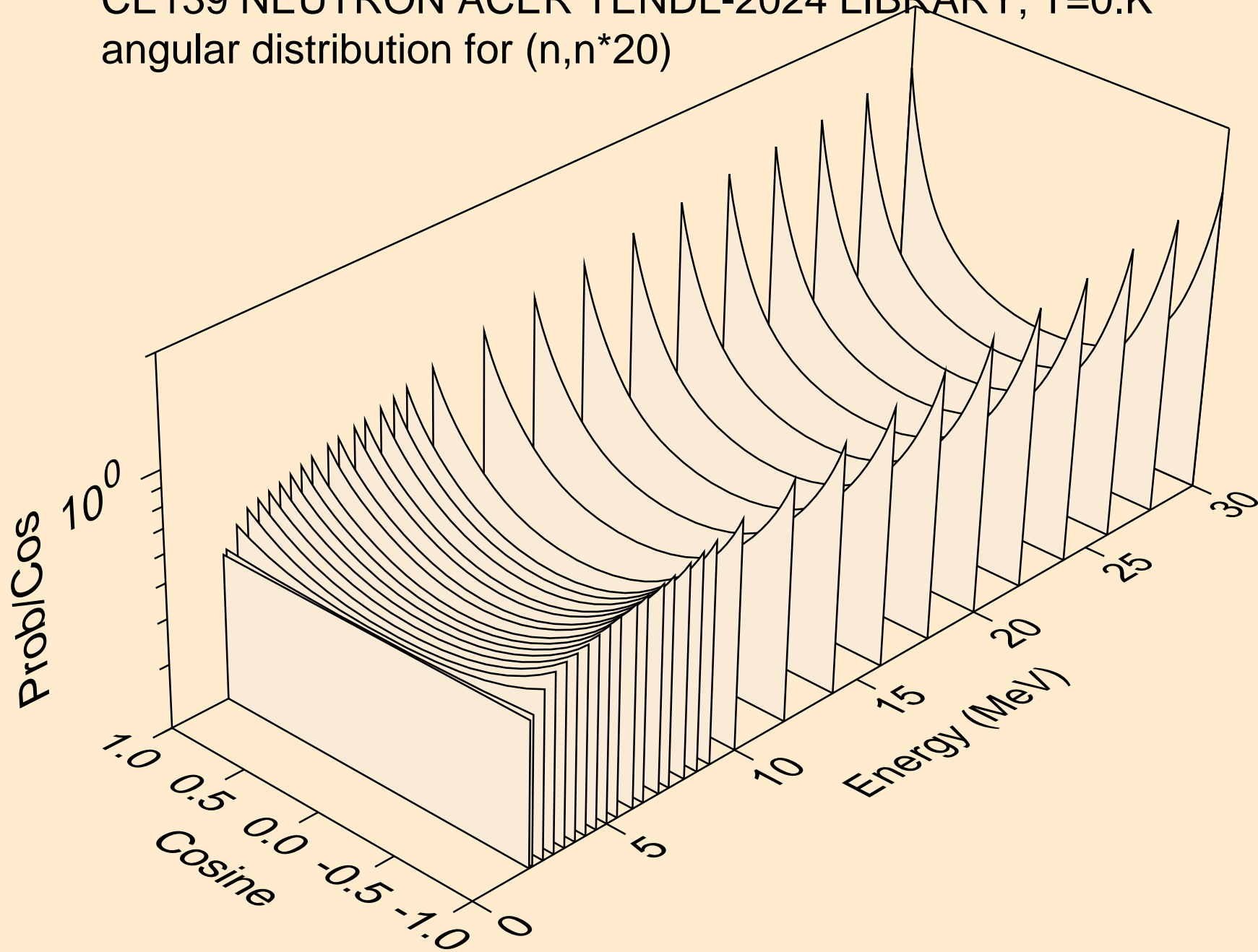
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angular distribution for (n,n\*18)



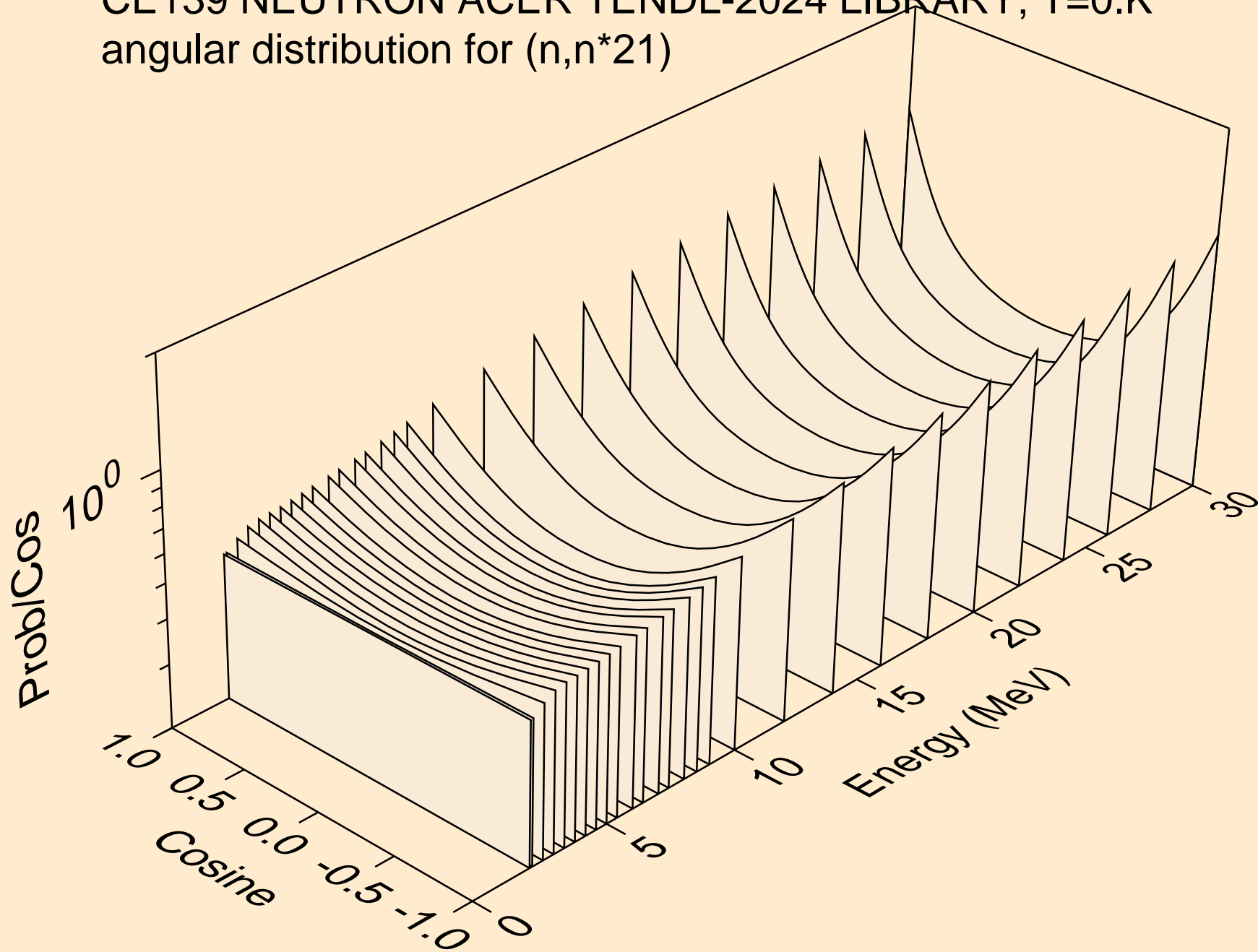
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angular distribution for (n,n\*19)



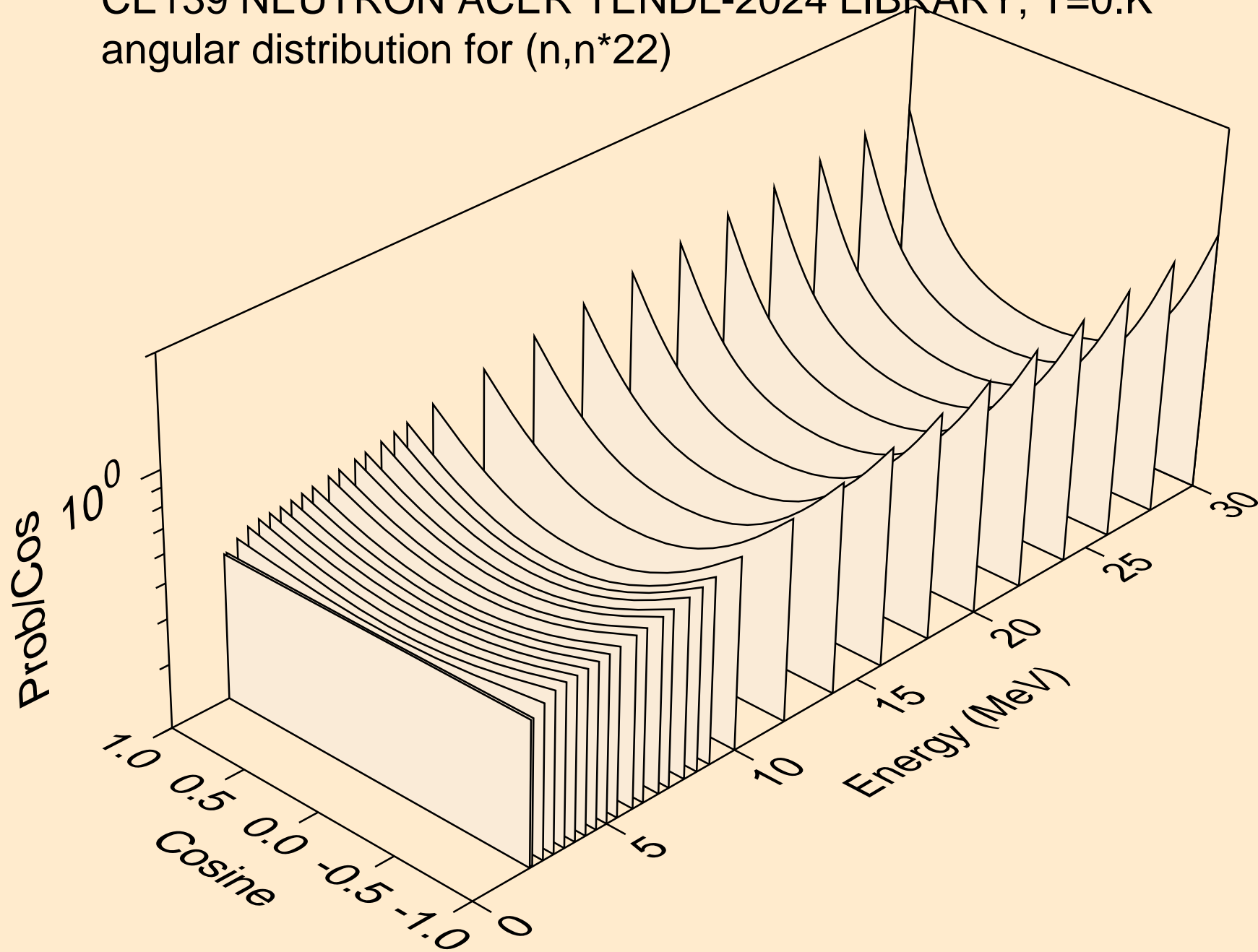
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*20)



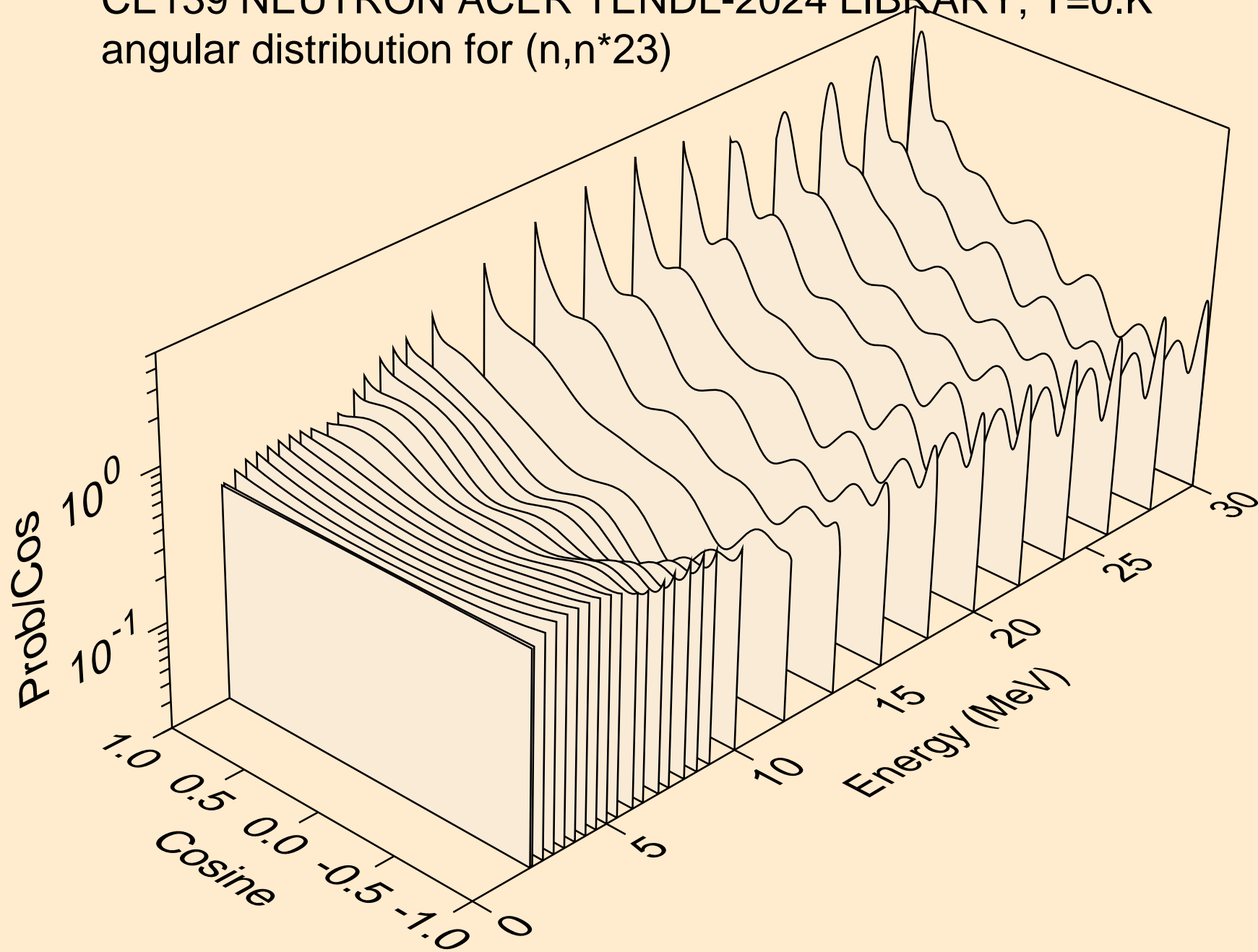
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*22)

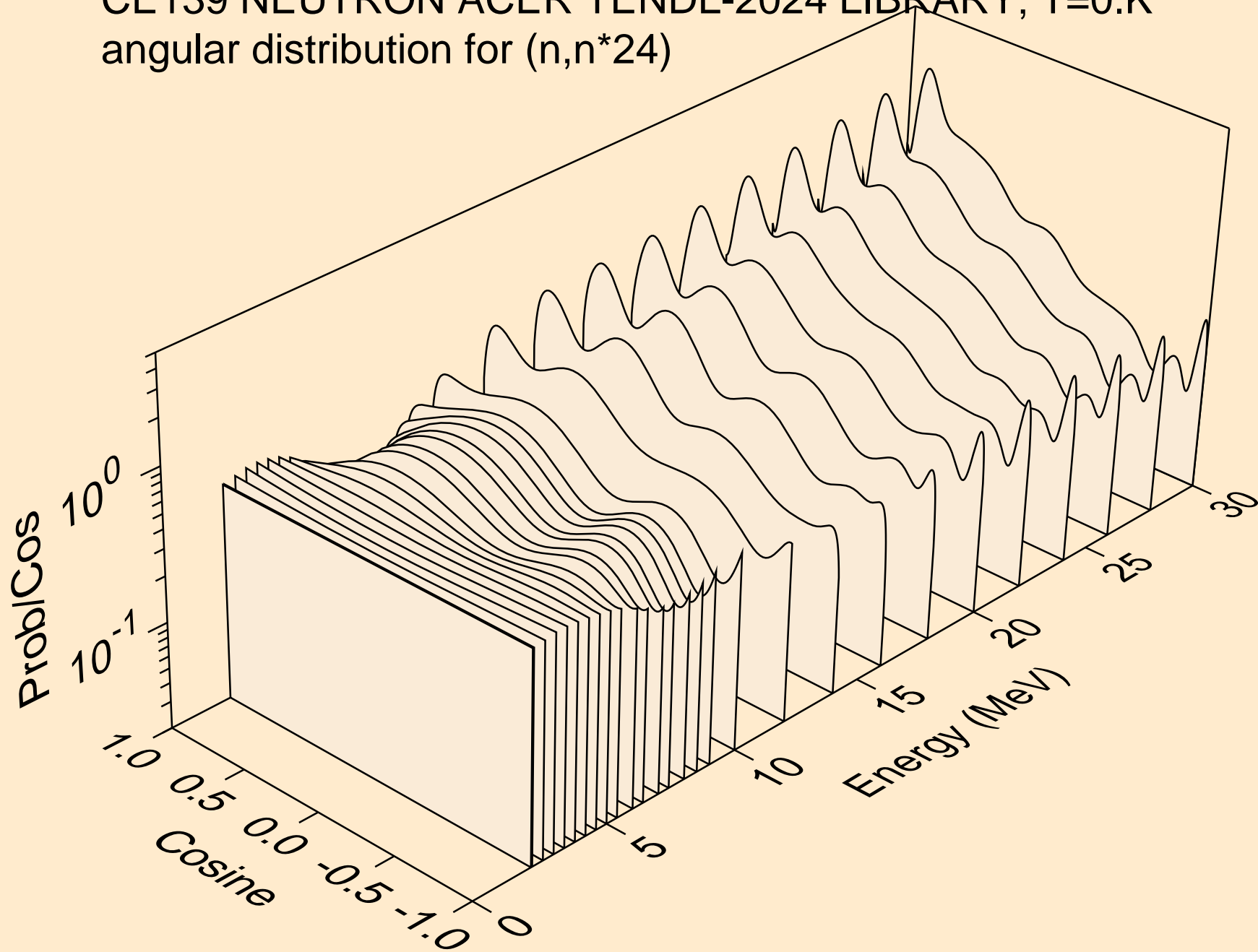


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*23)

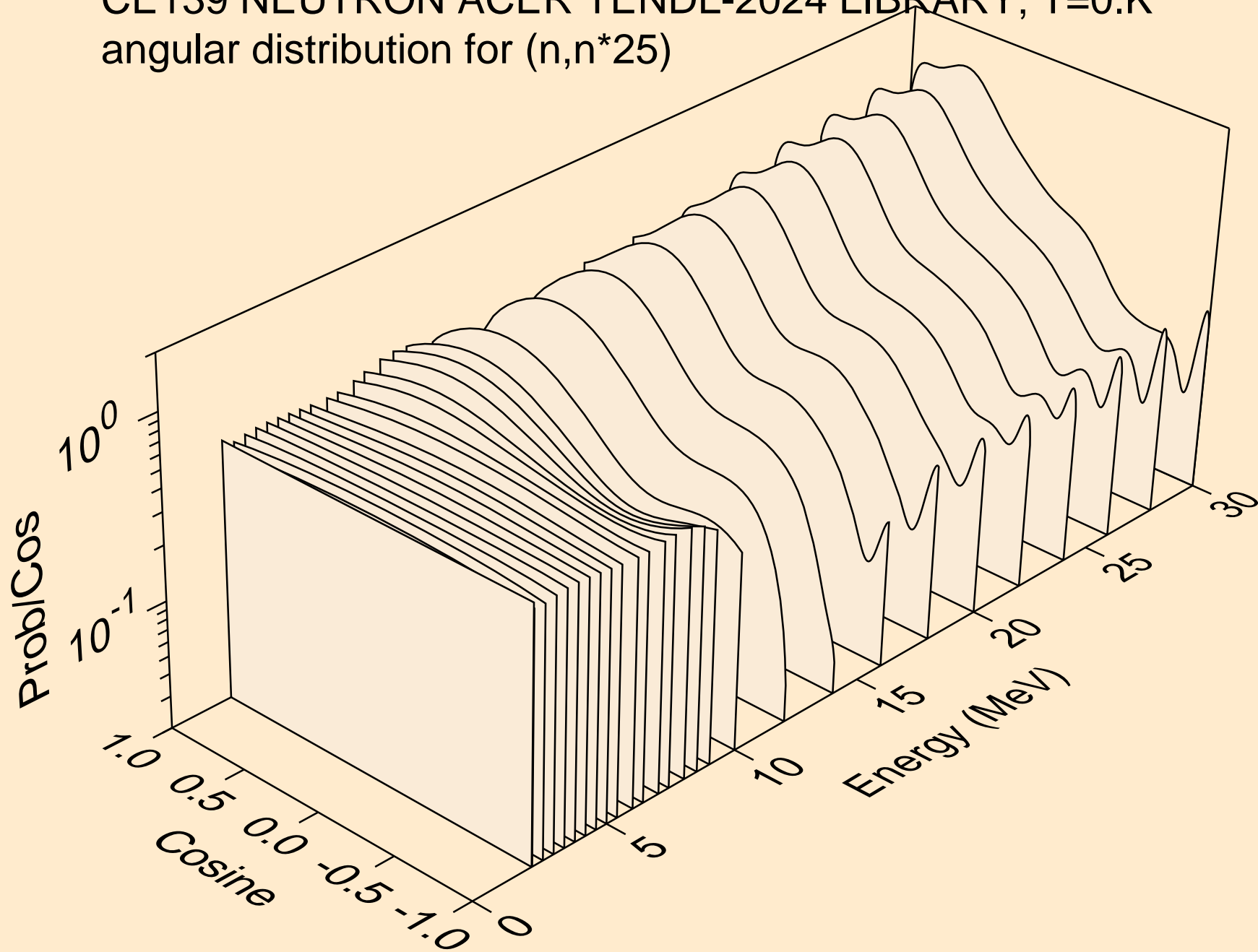




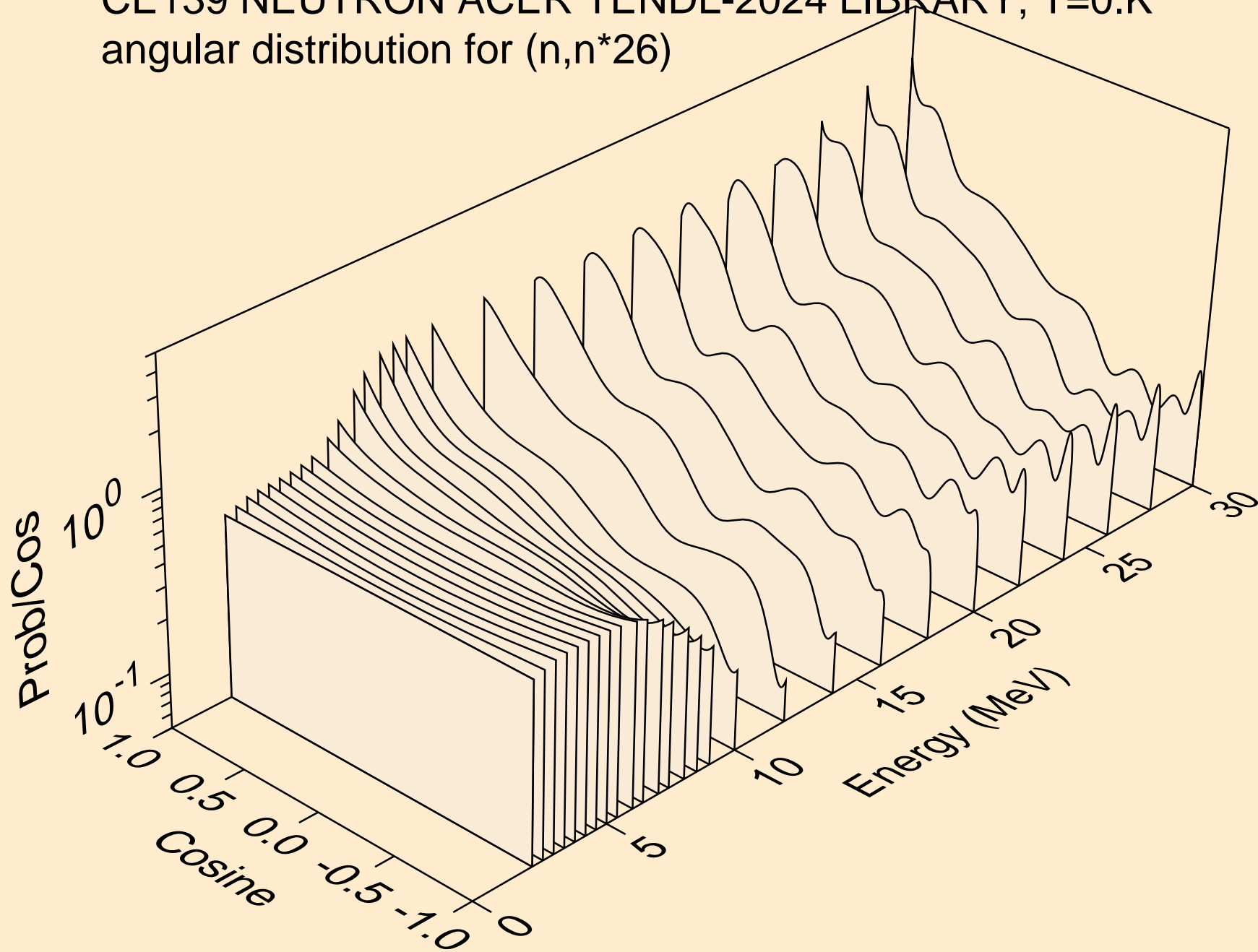
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)



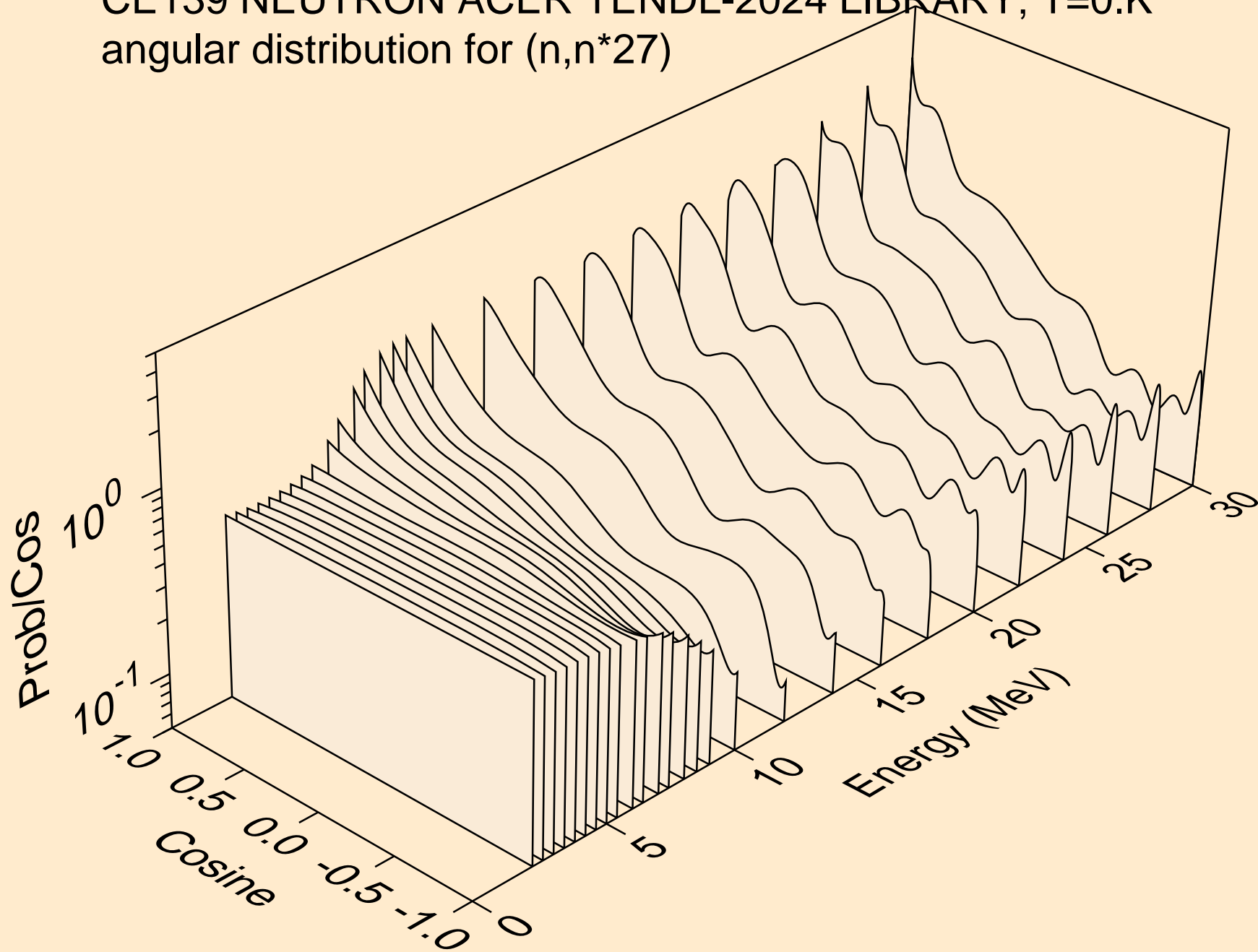
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angular distribution for (n,n\*25)



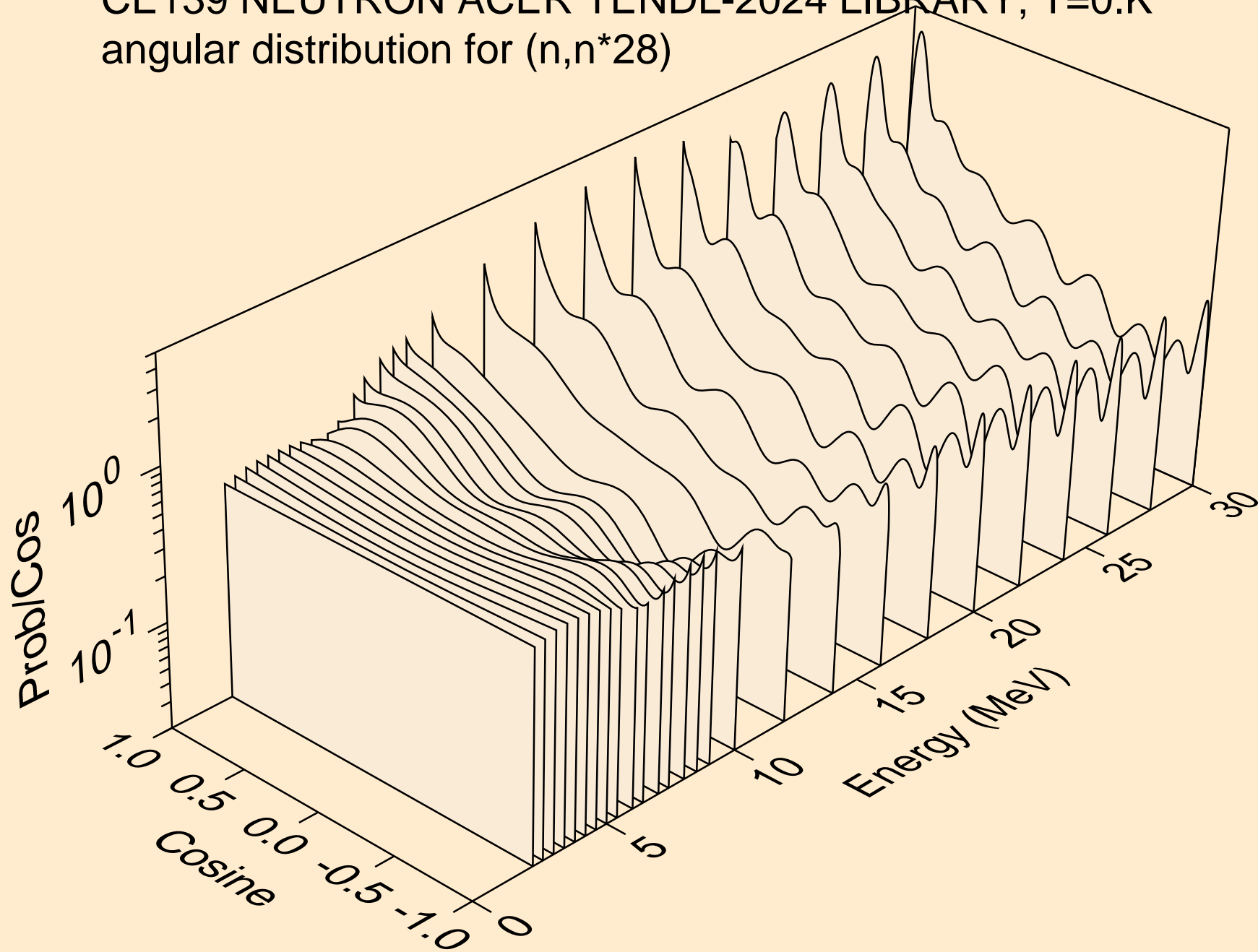
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



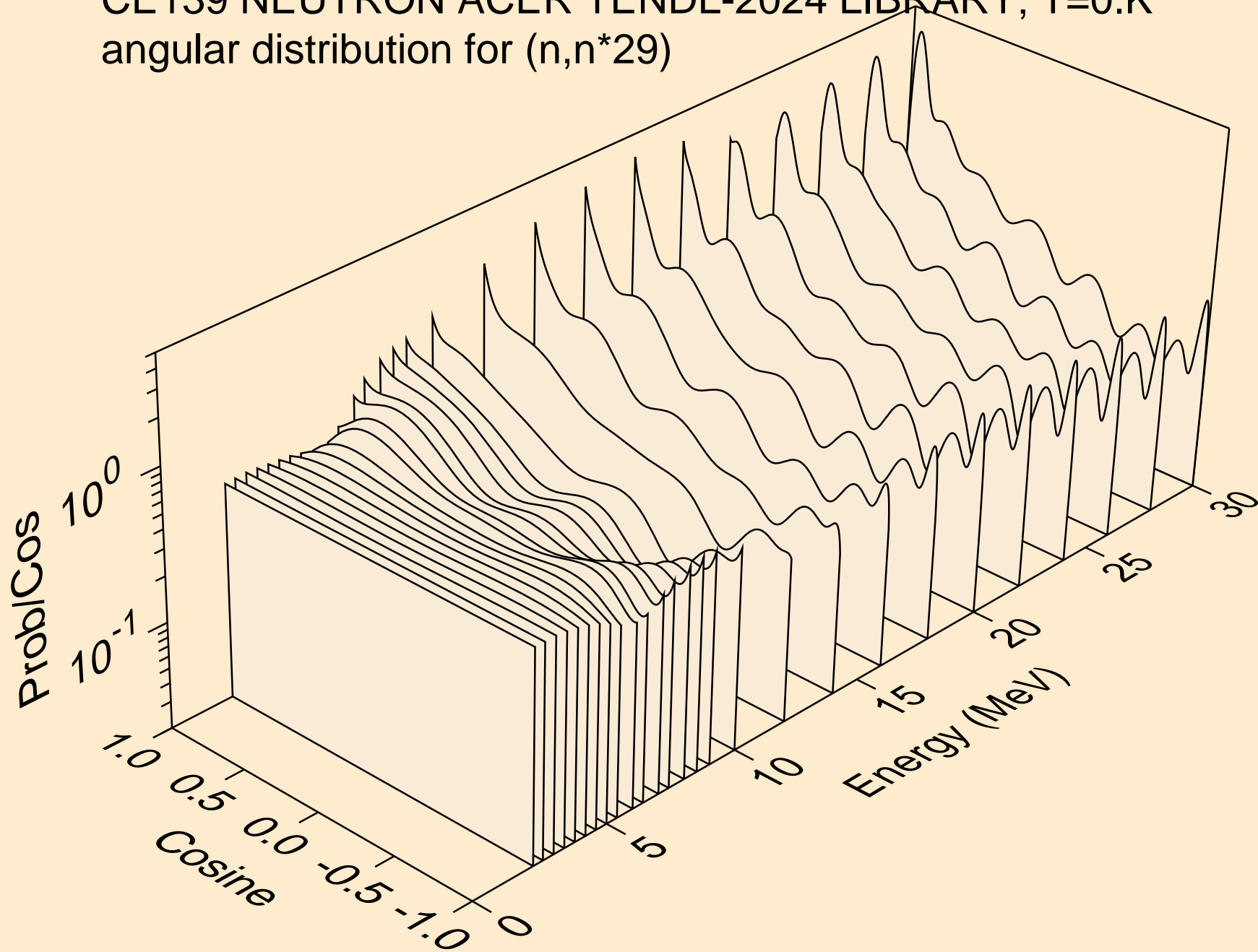
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



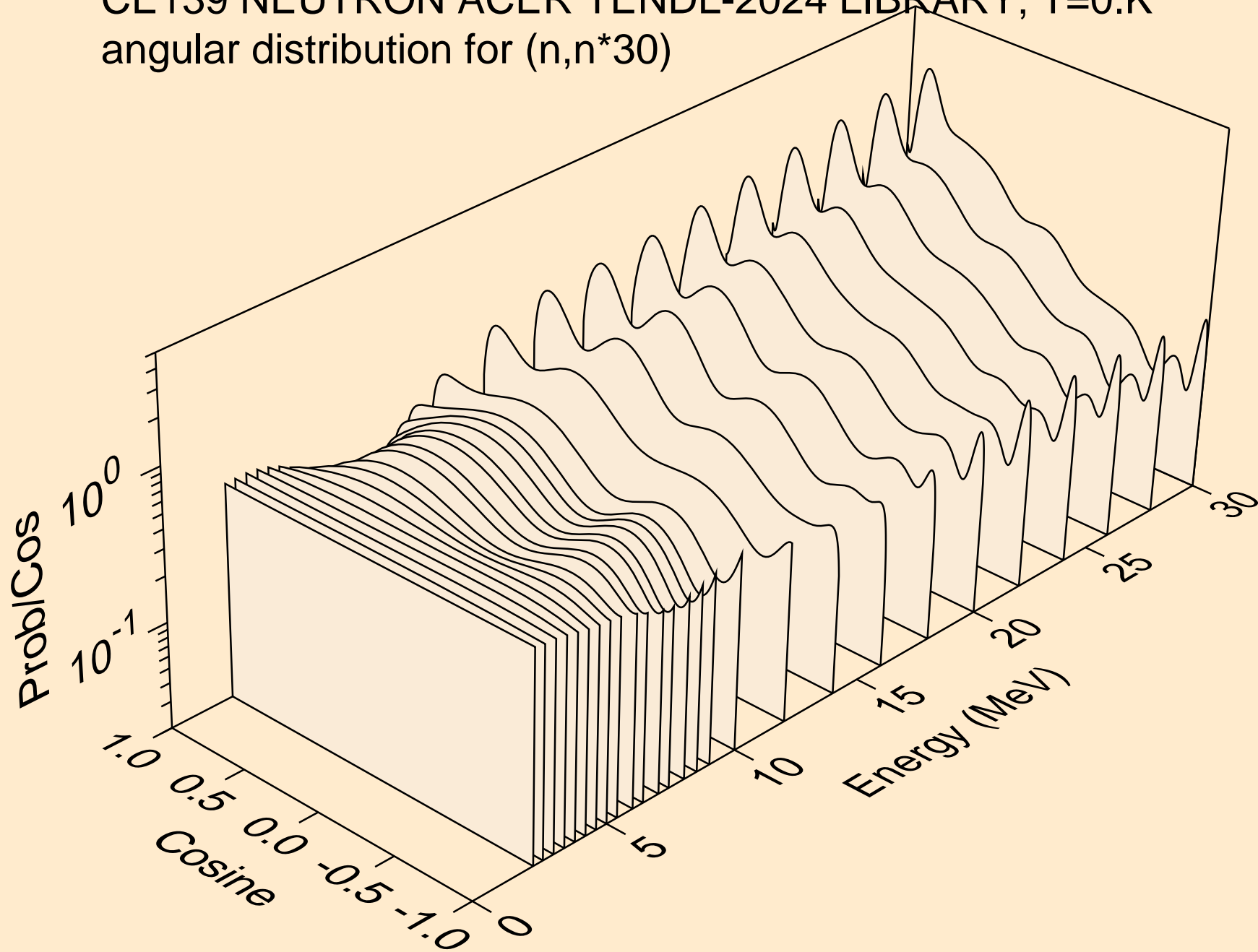
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



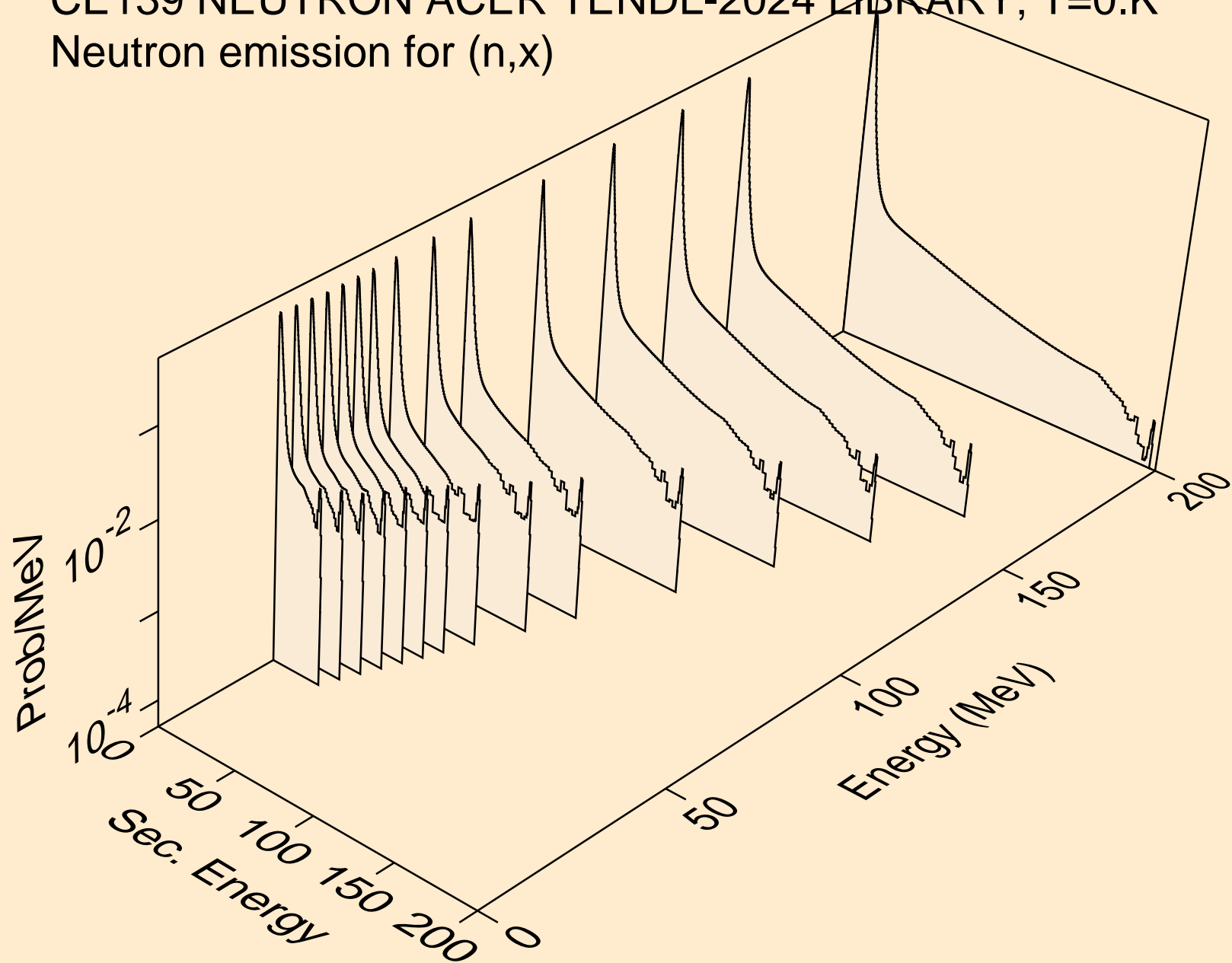
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)

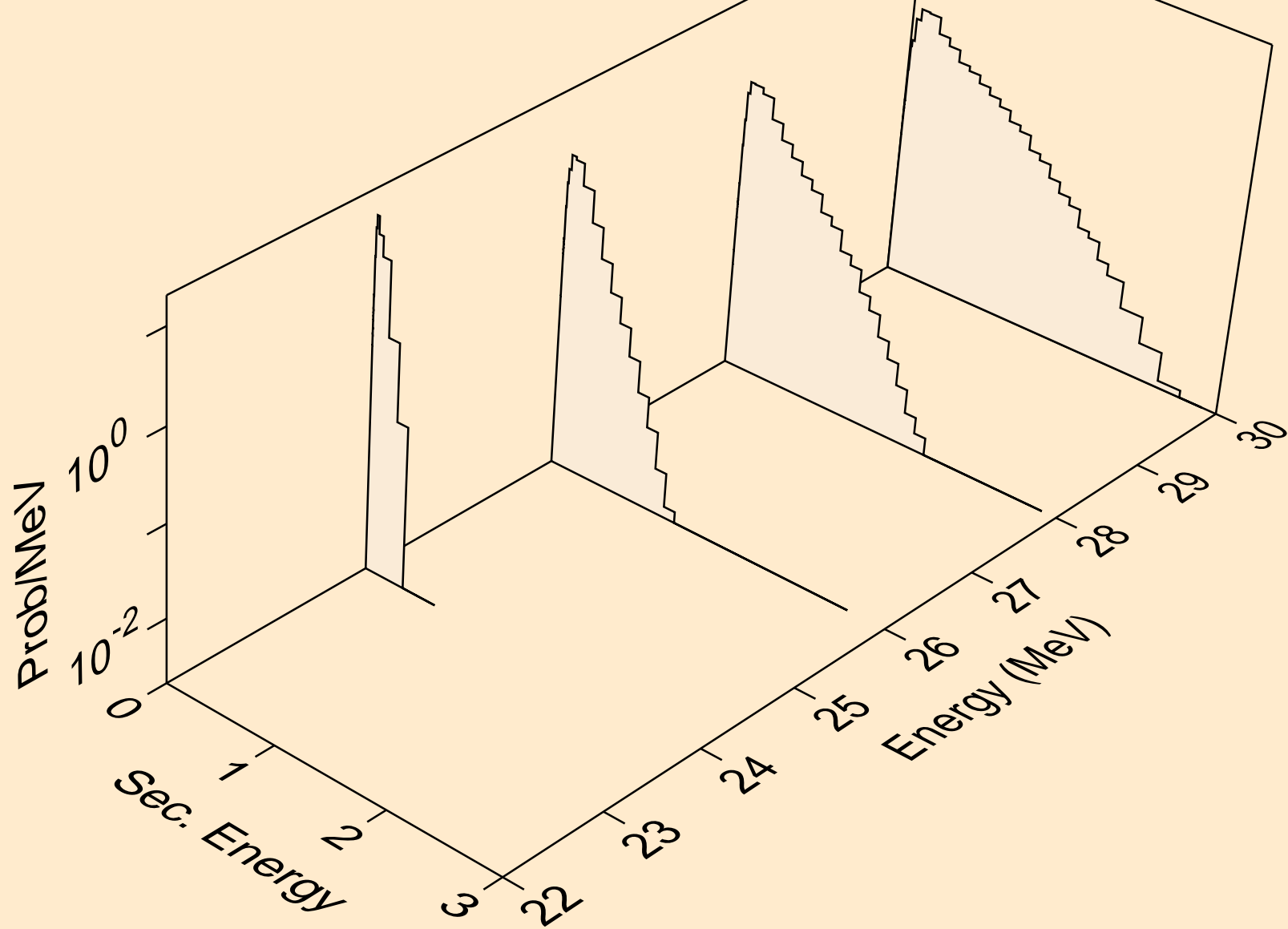


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)

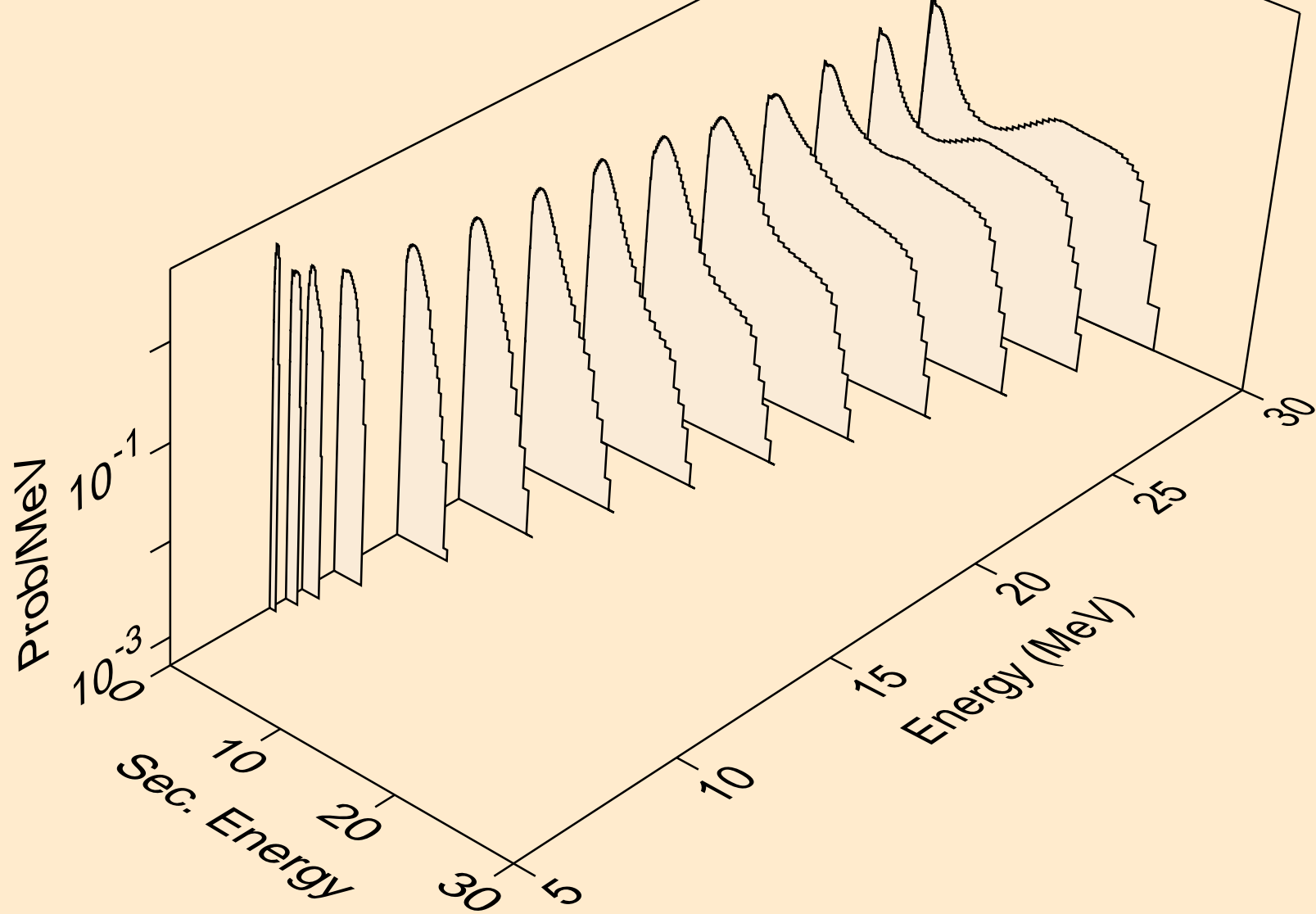




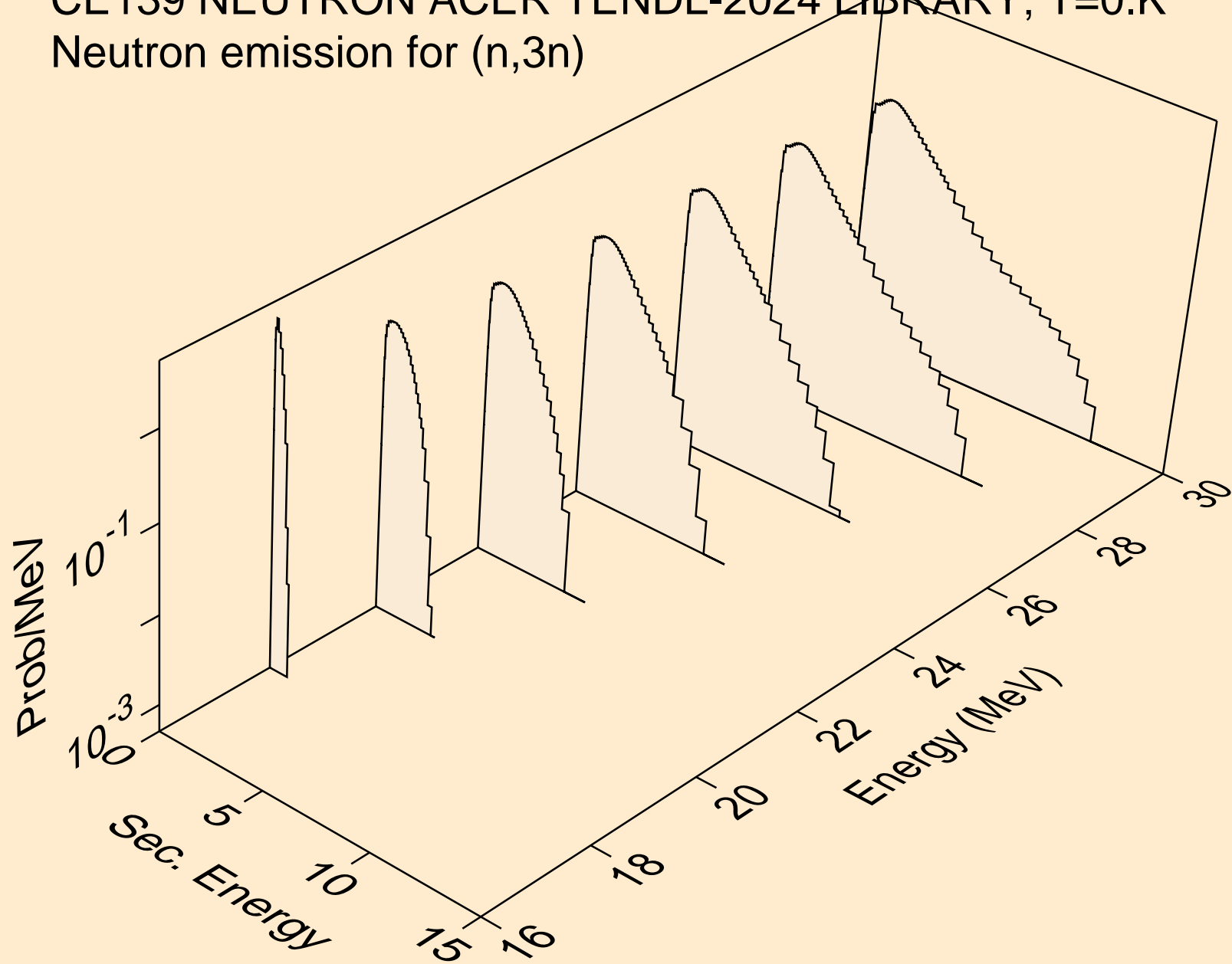
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



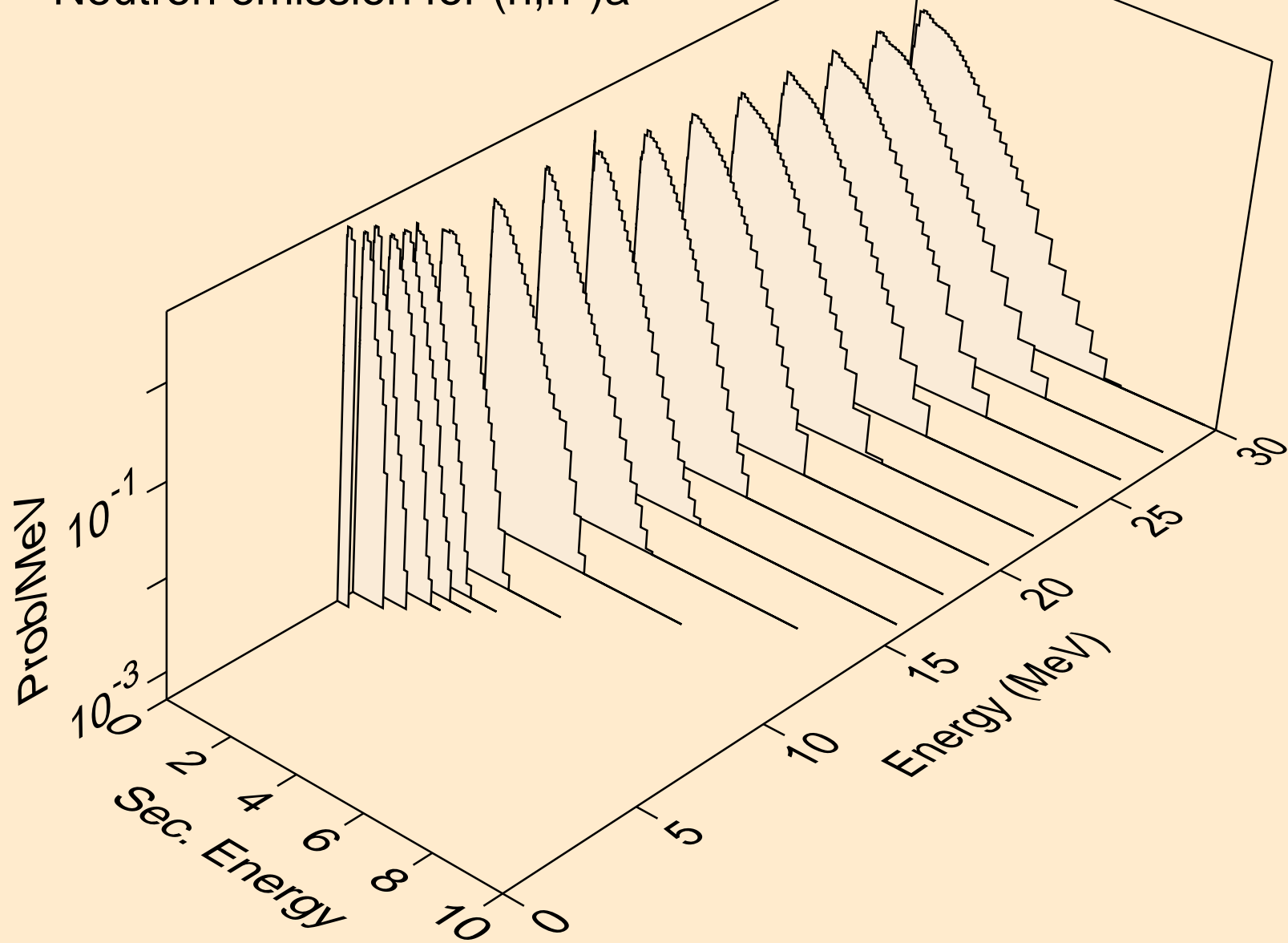
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



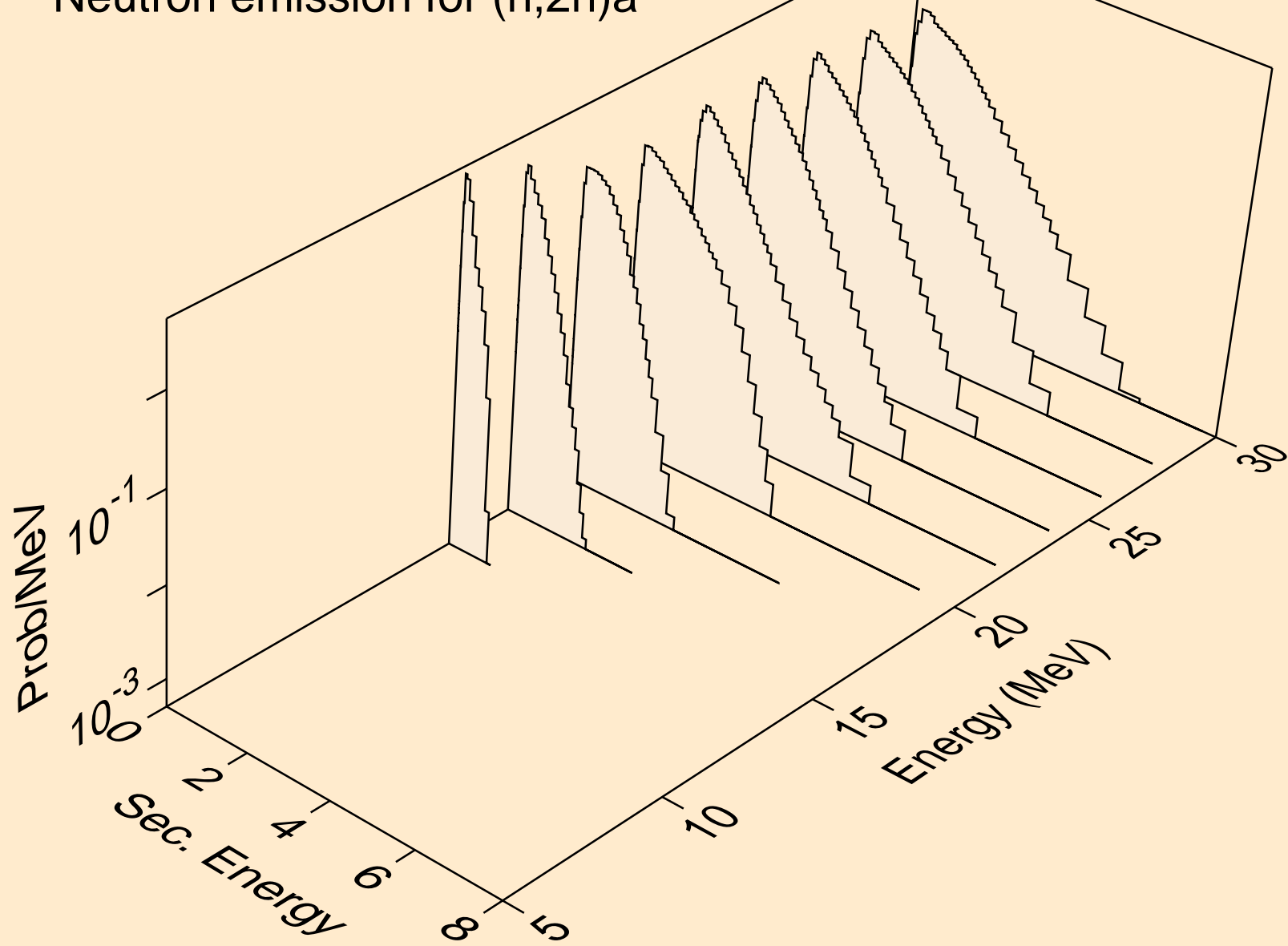
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



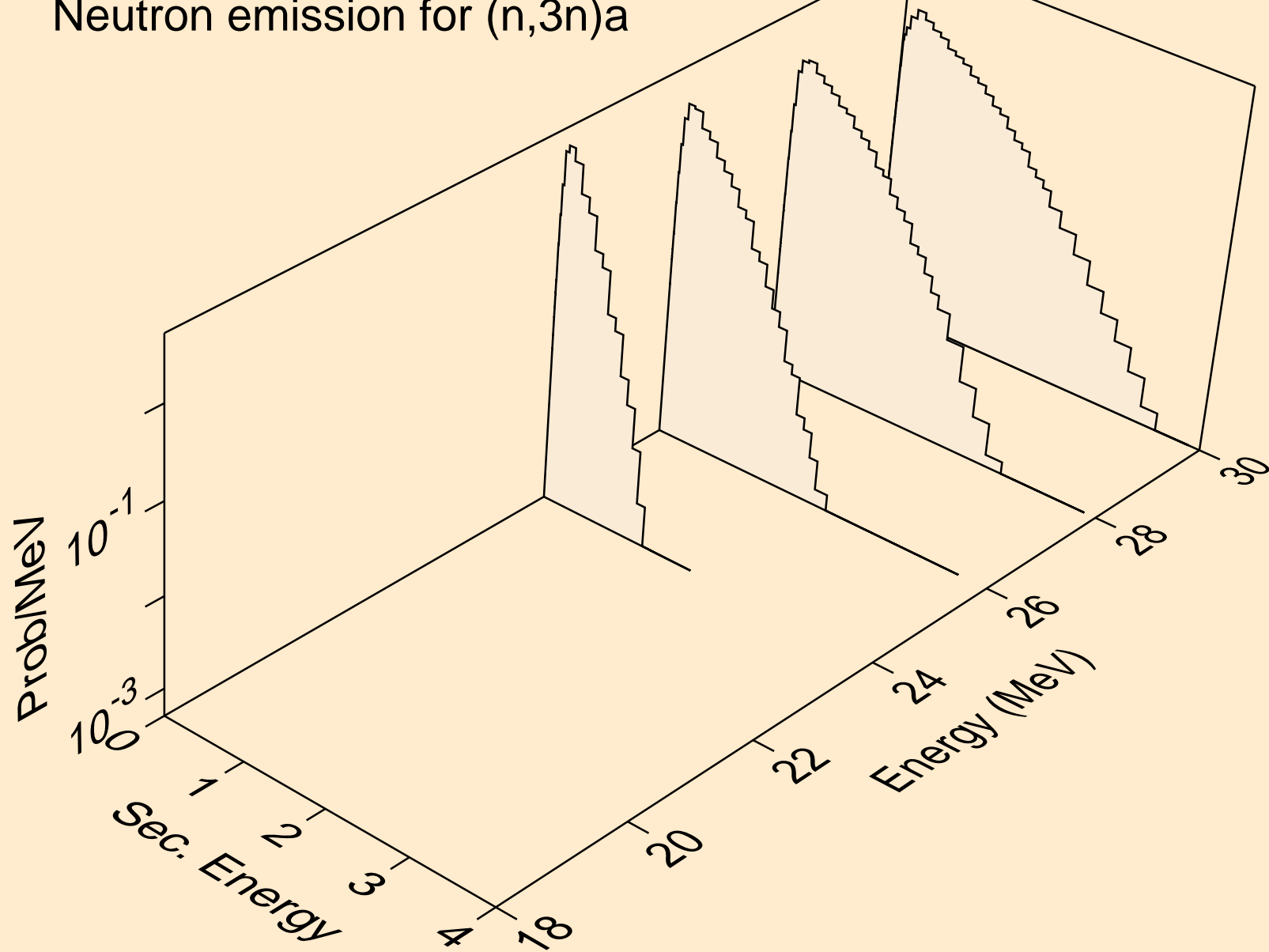
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



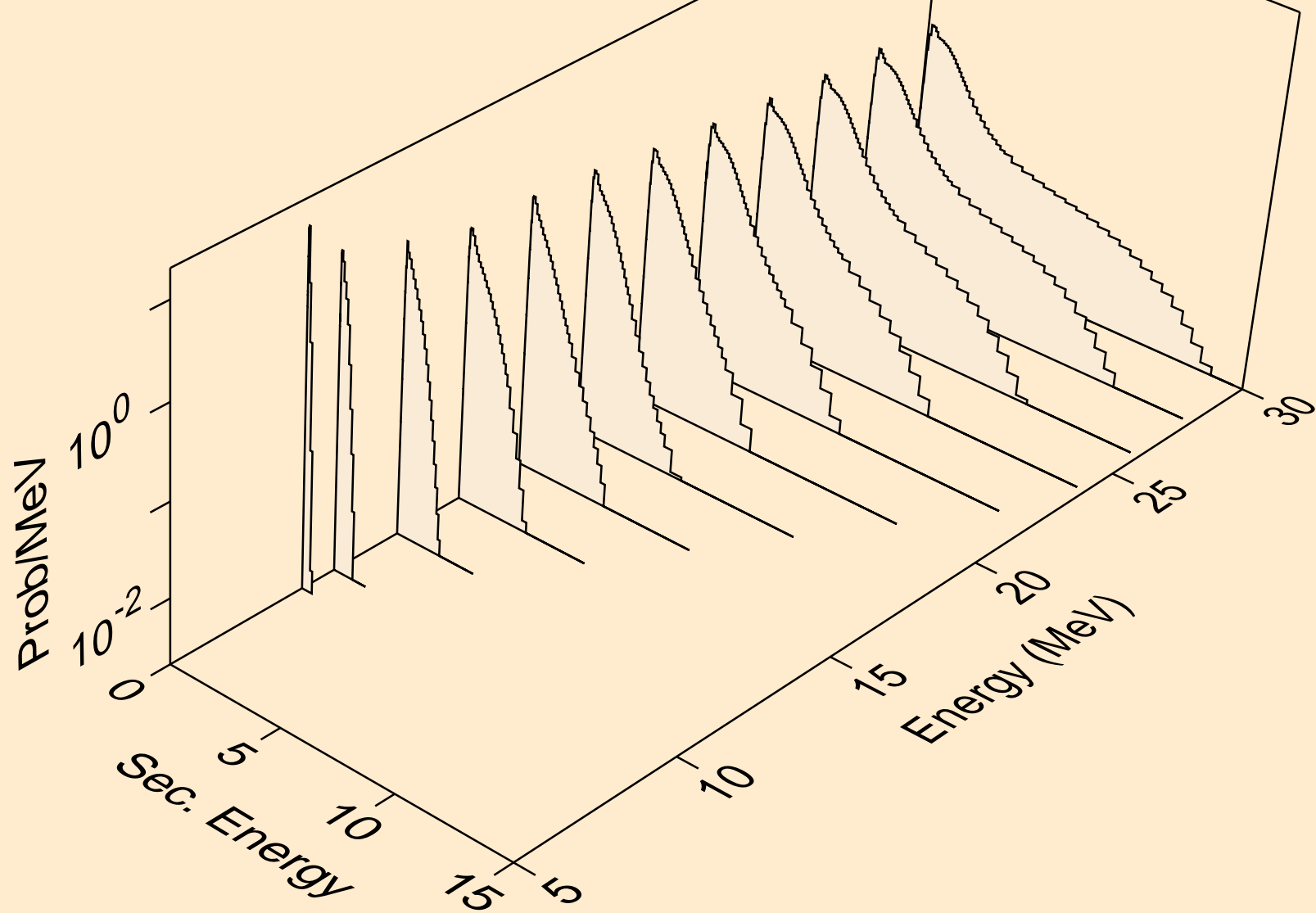
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



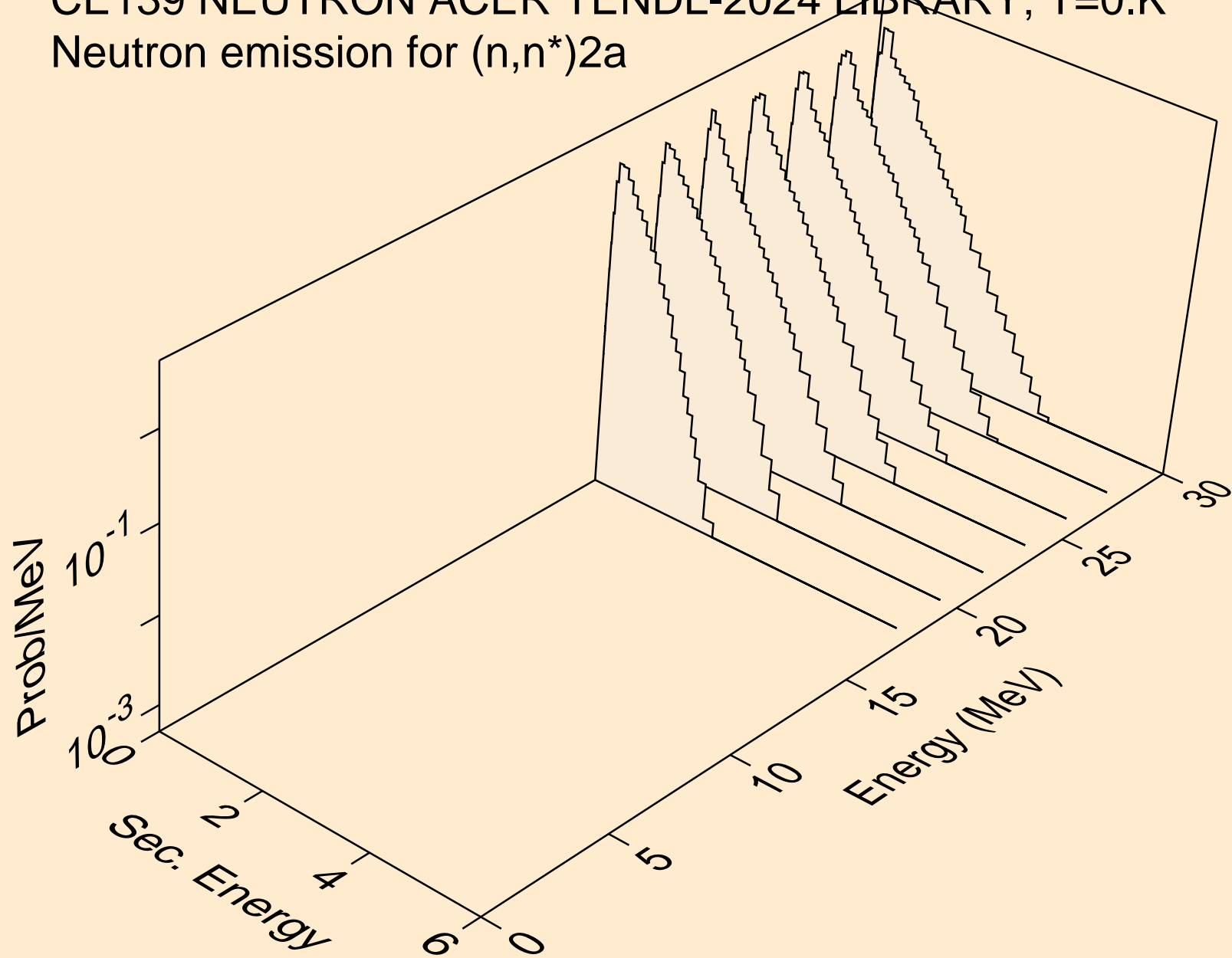
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

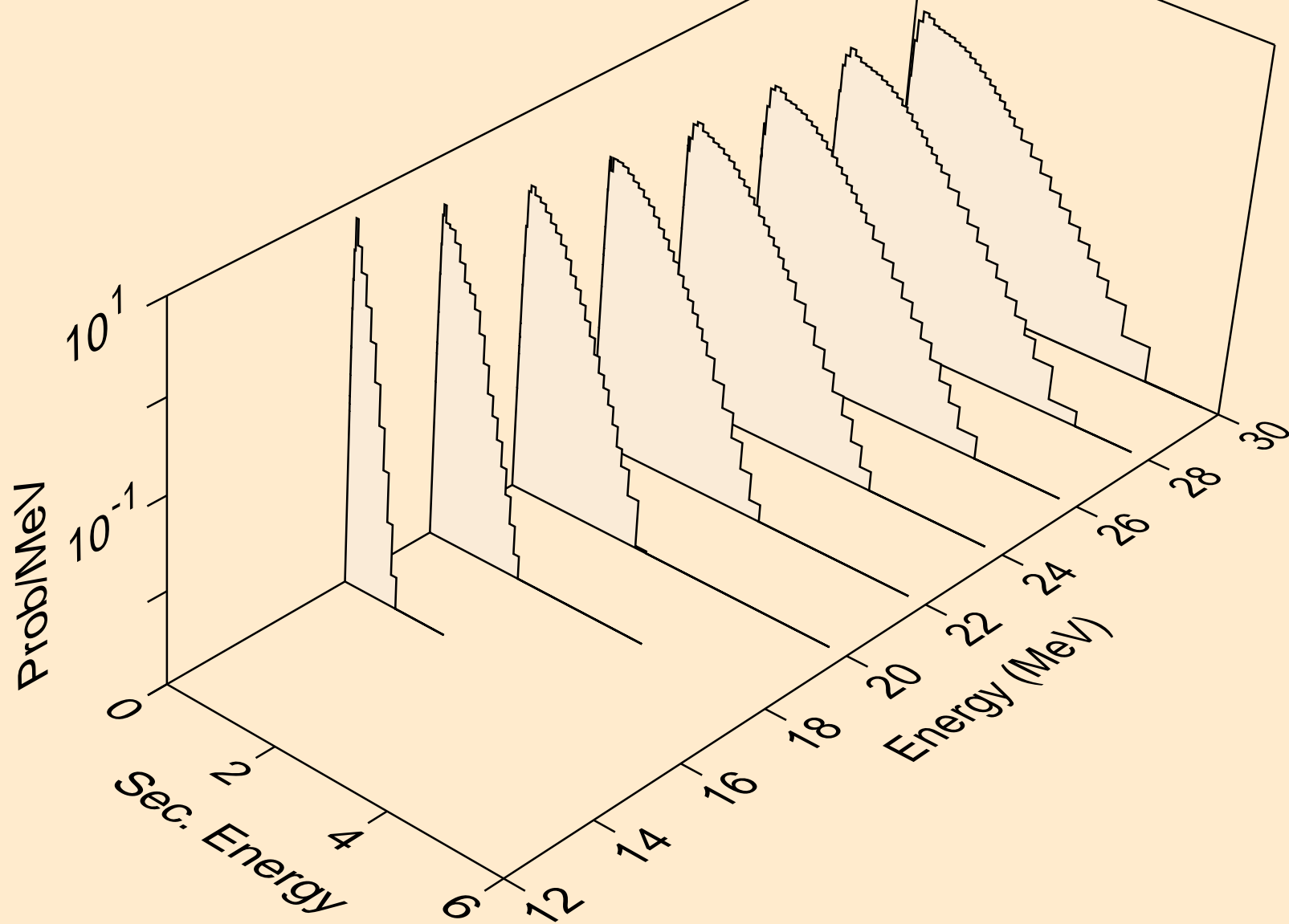


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

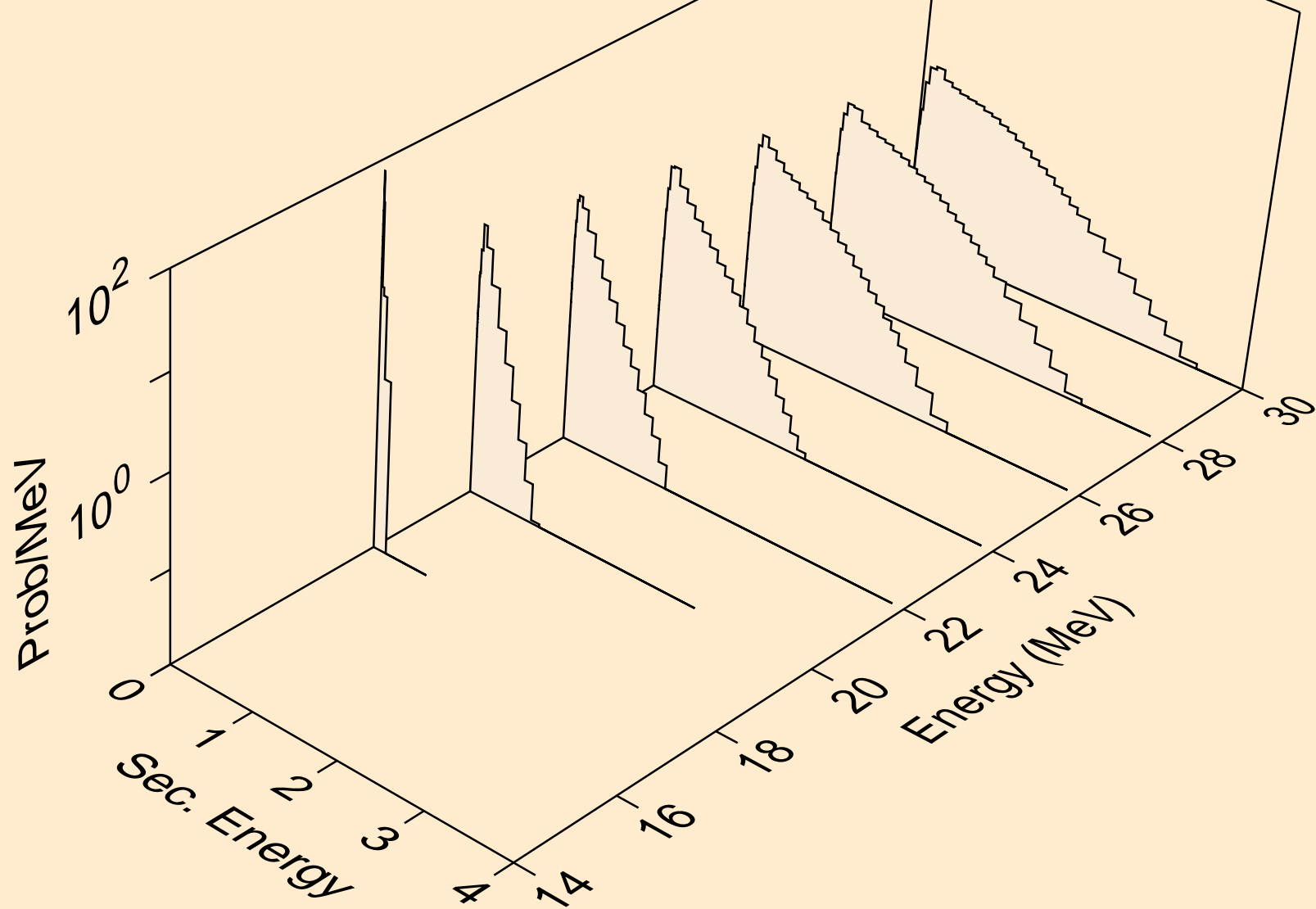




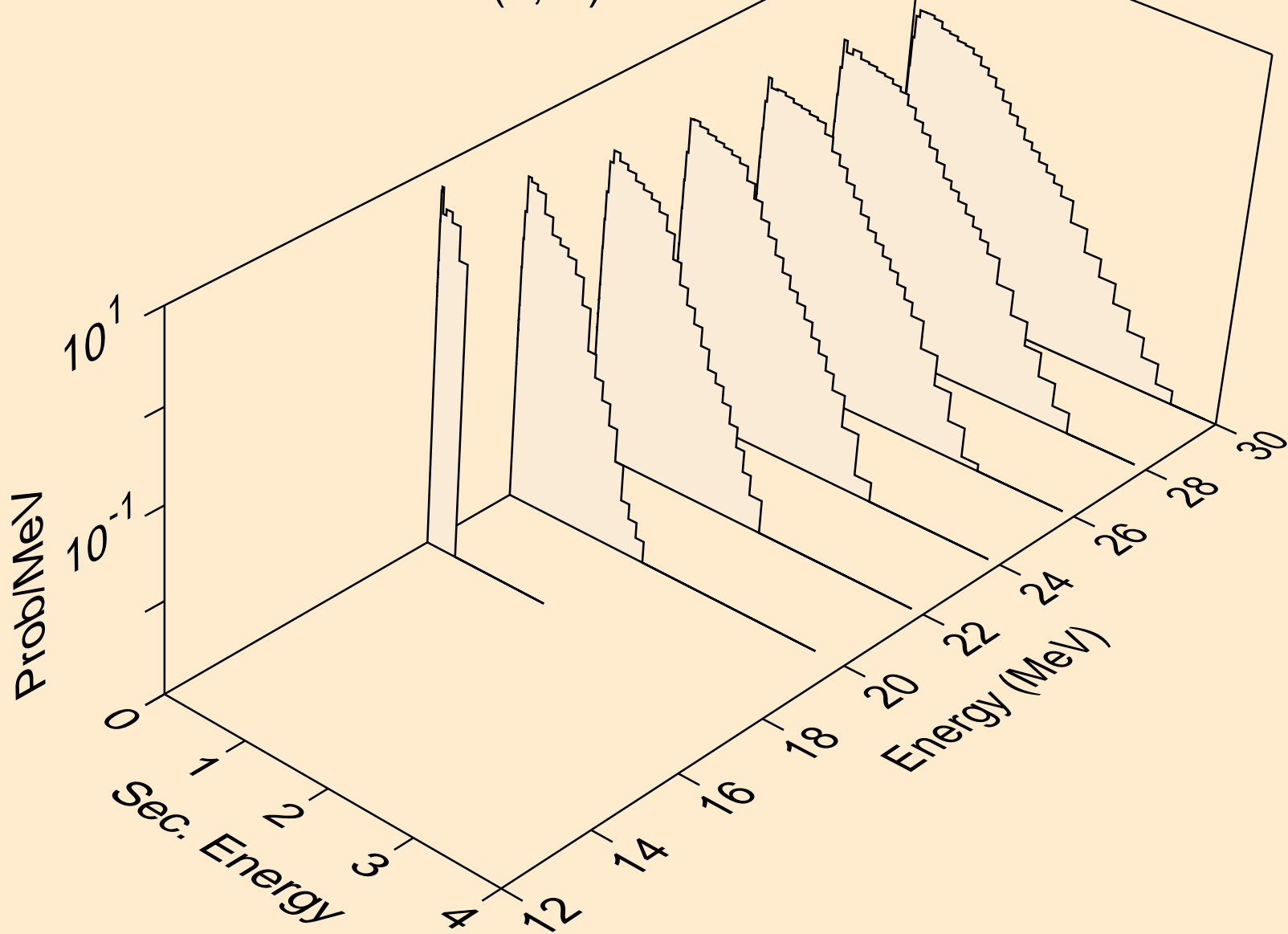
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



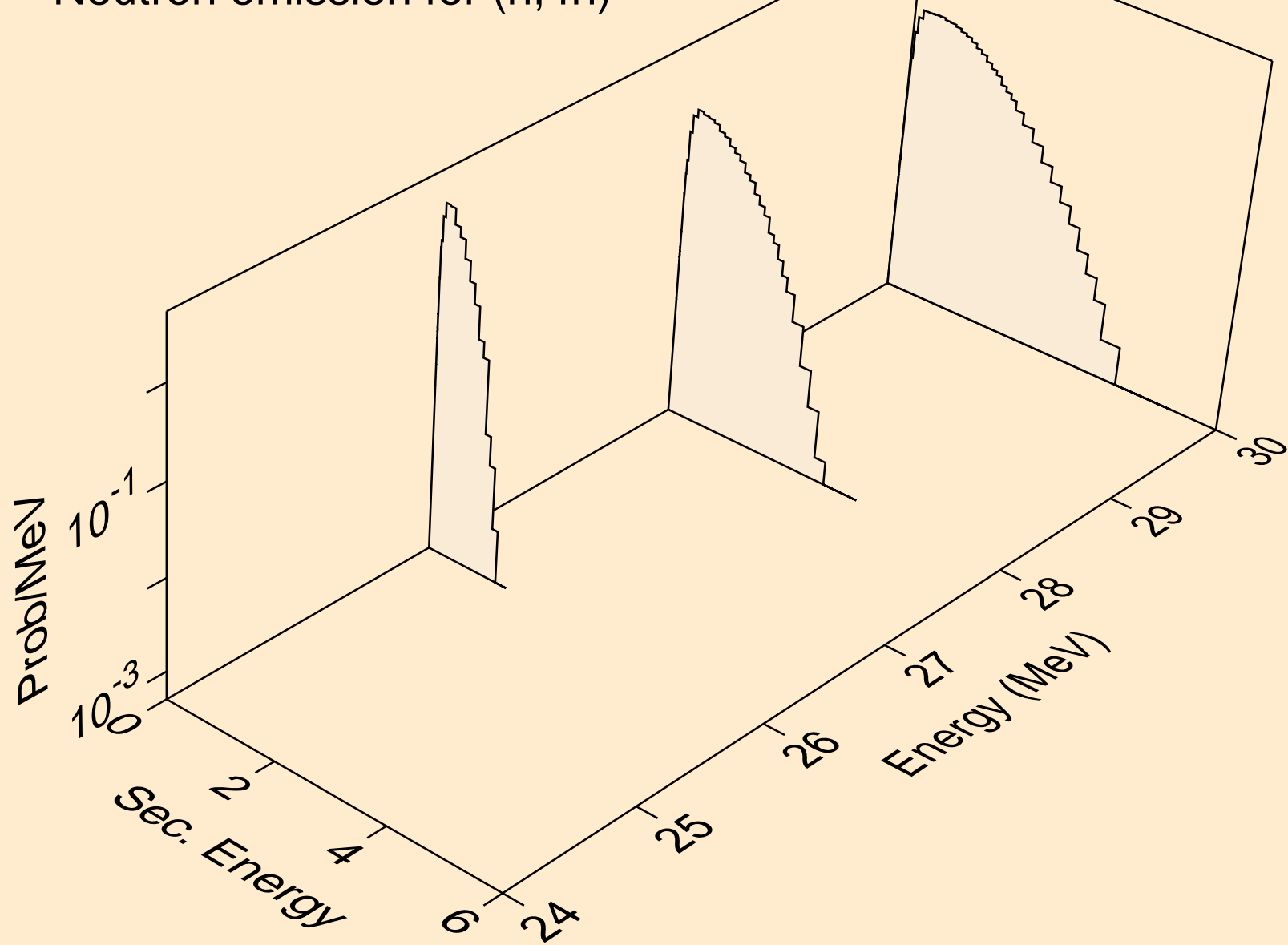
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



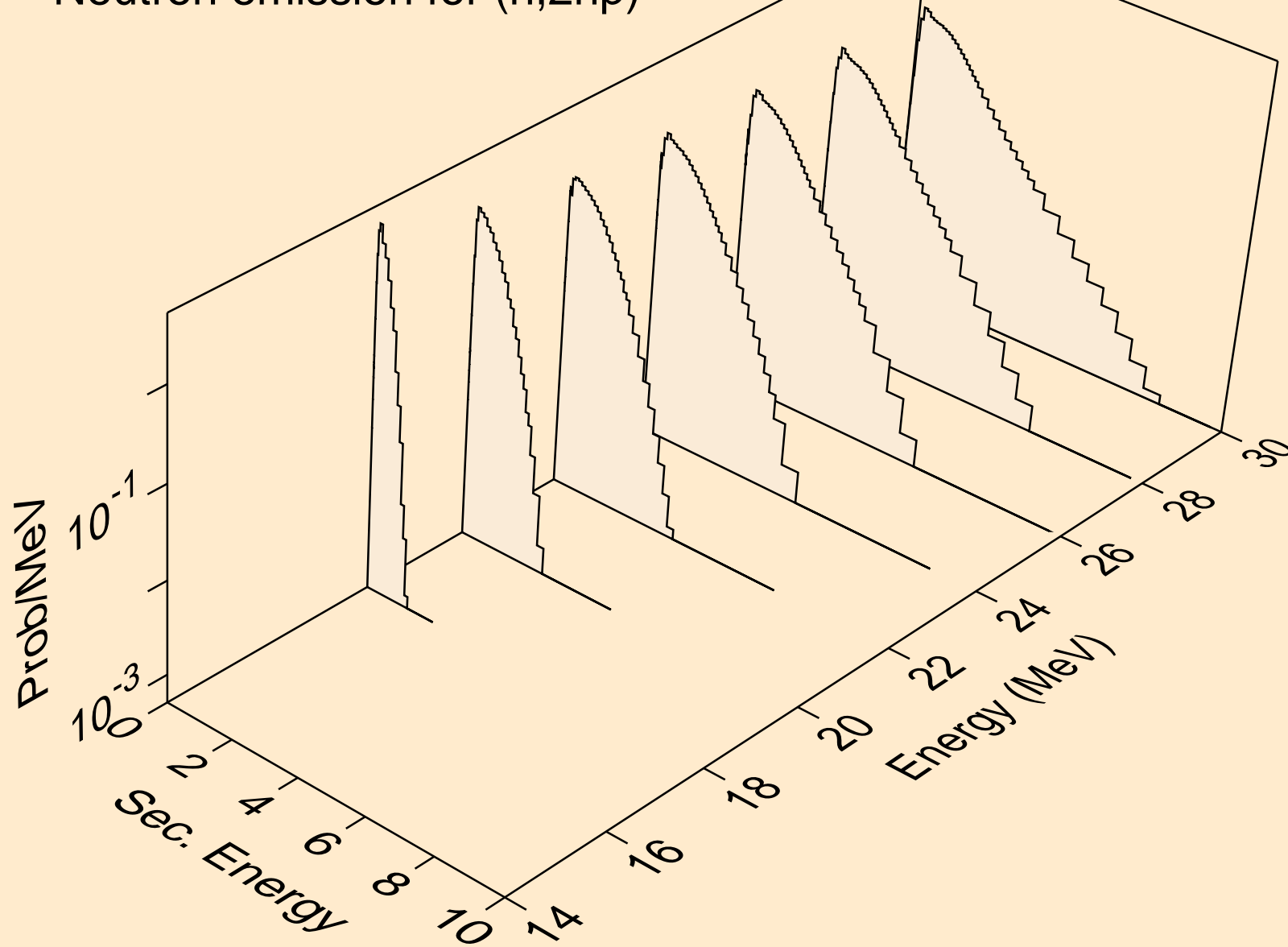
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



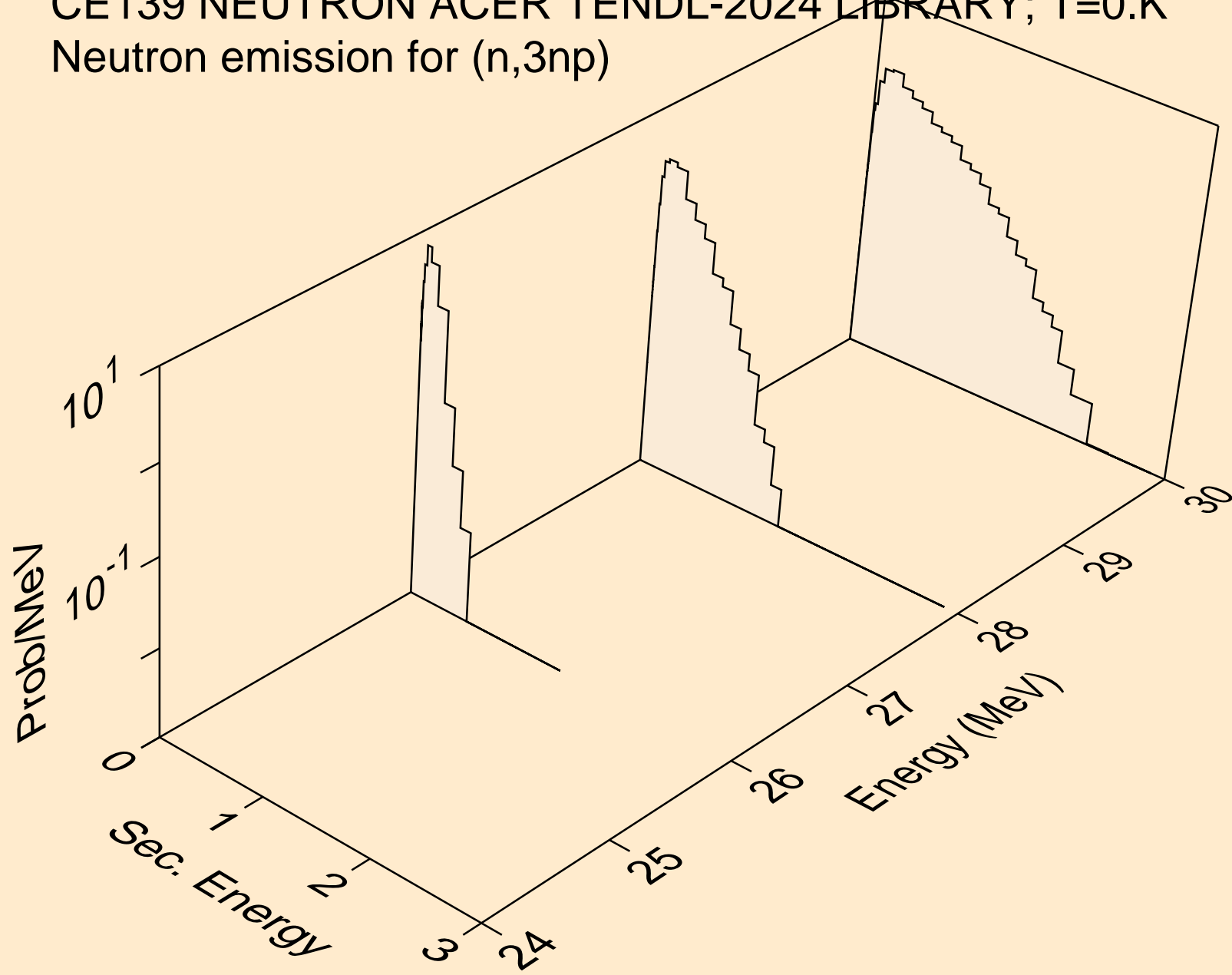
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



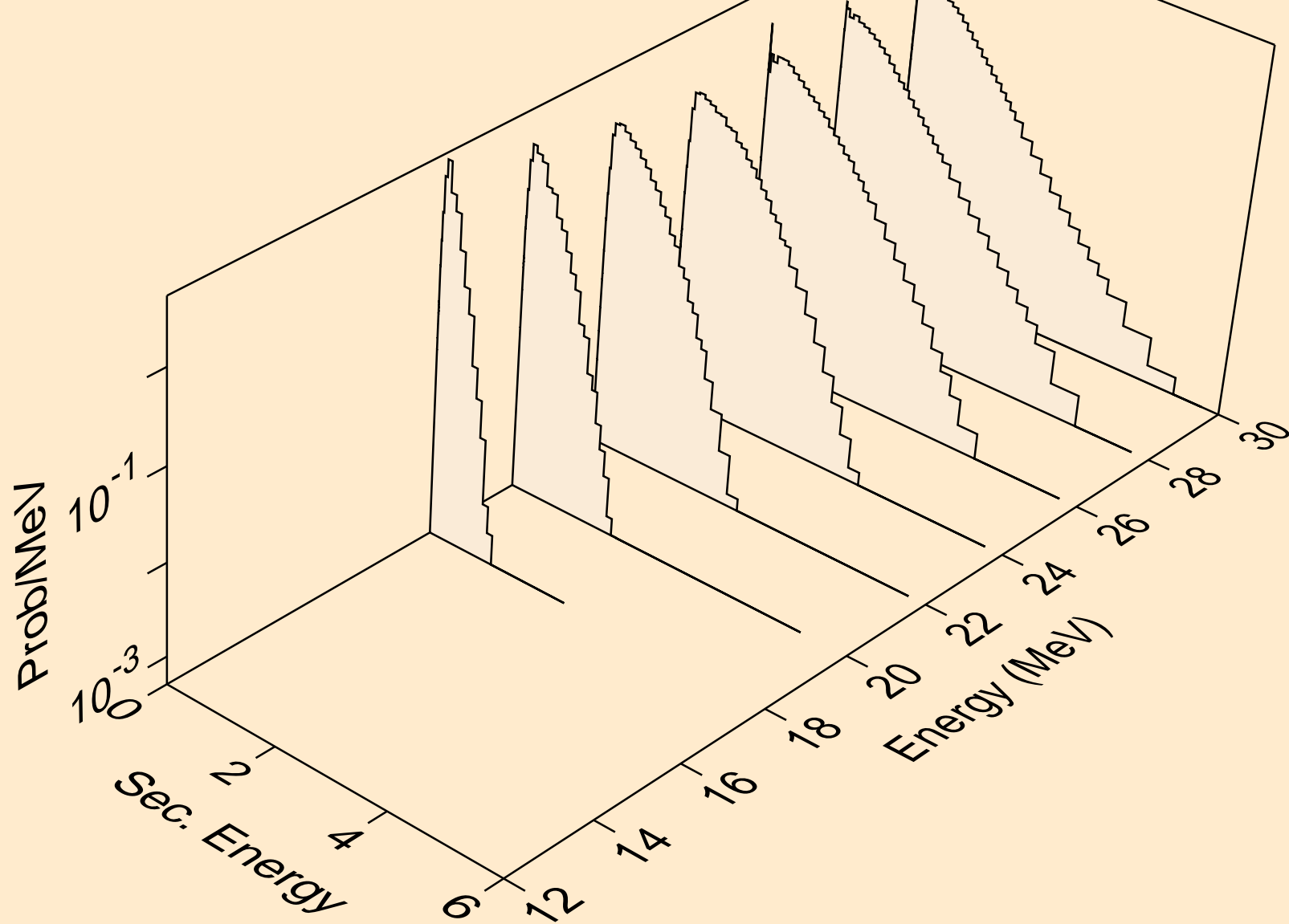
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



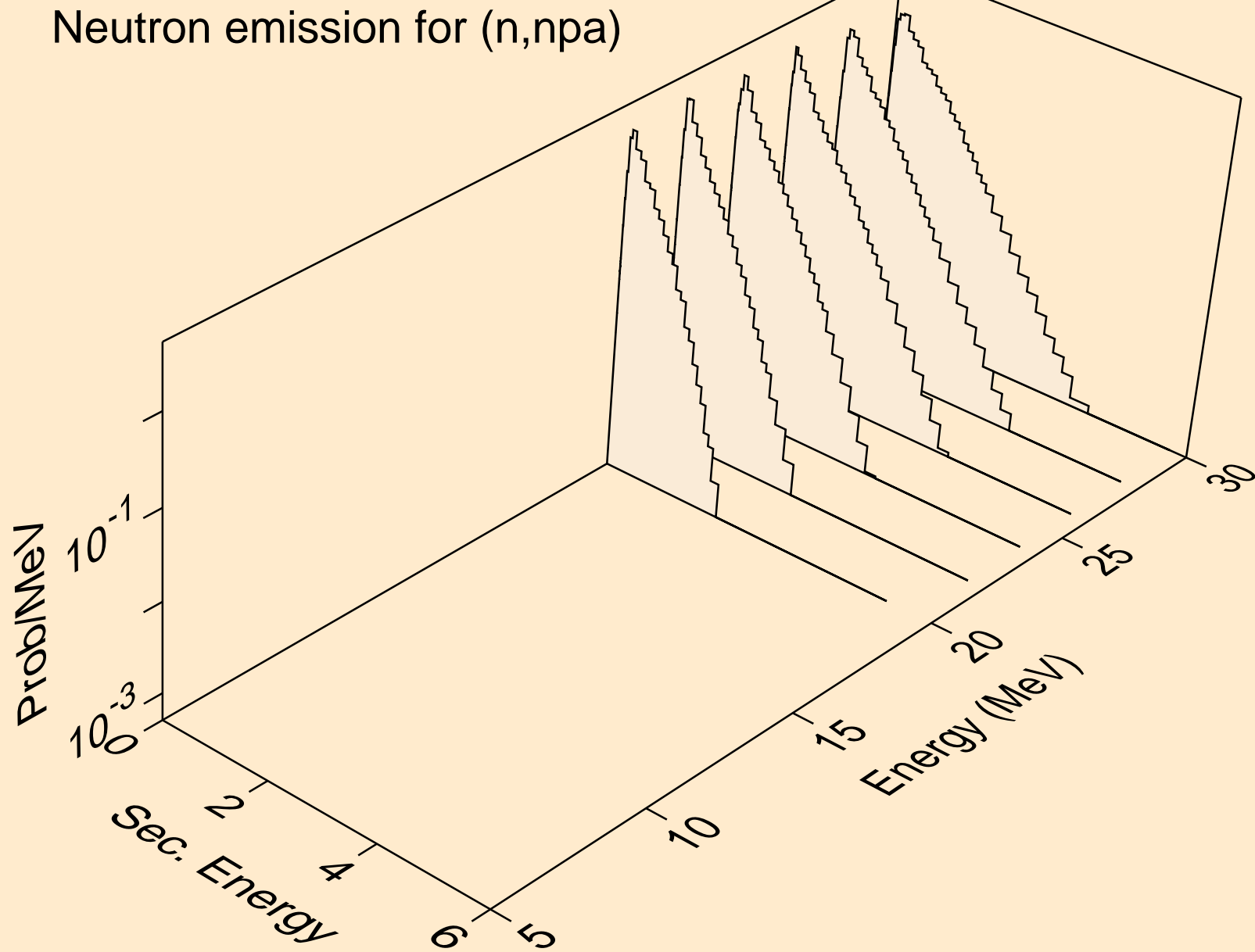
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

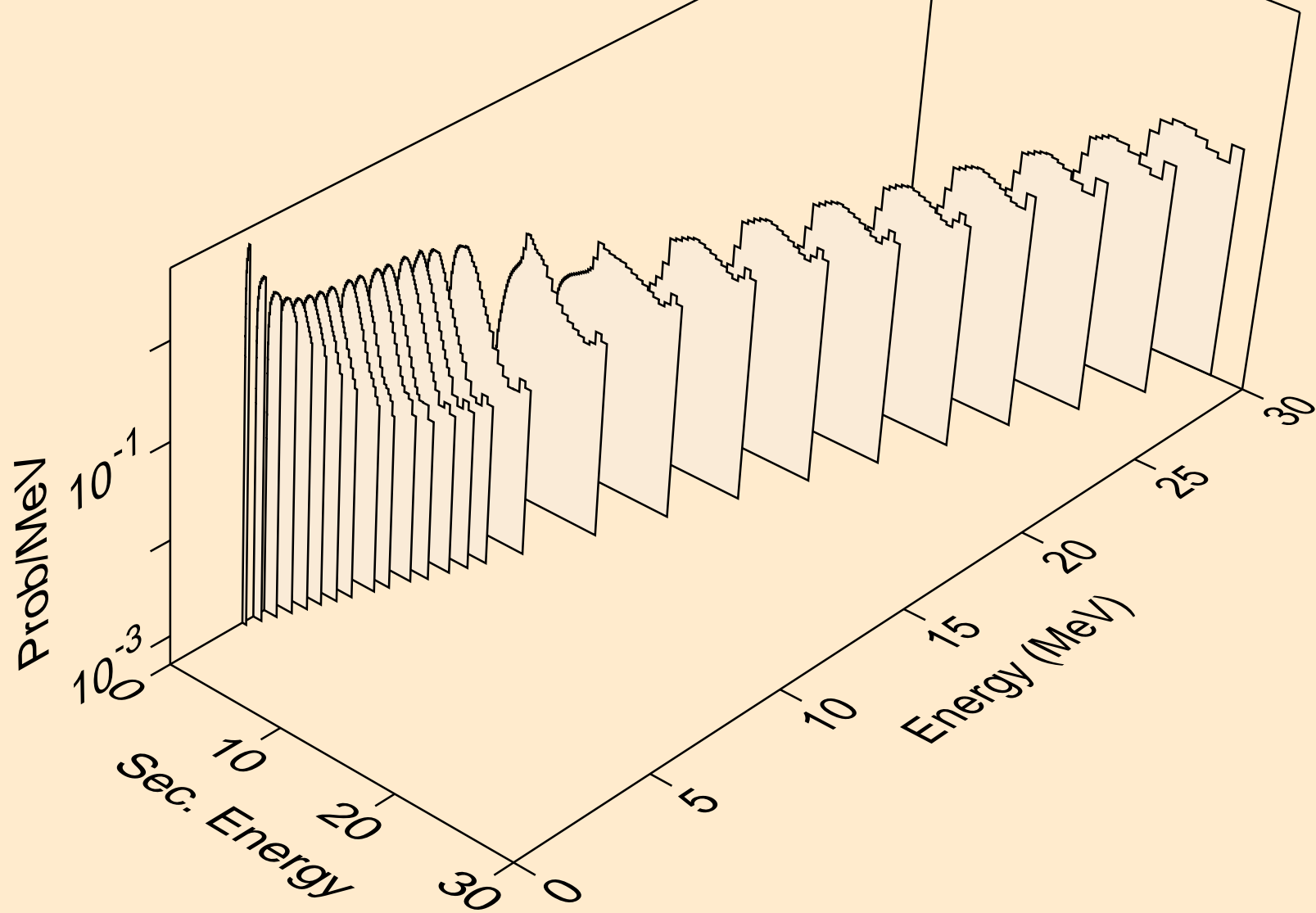


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)

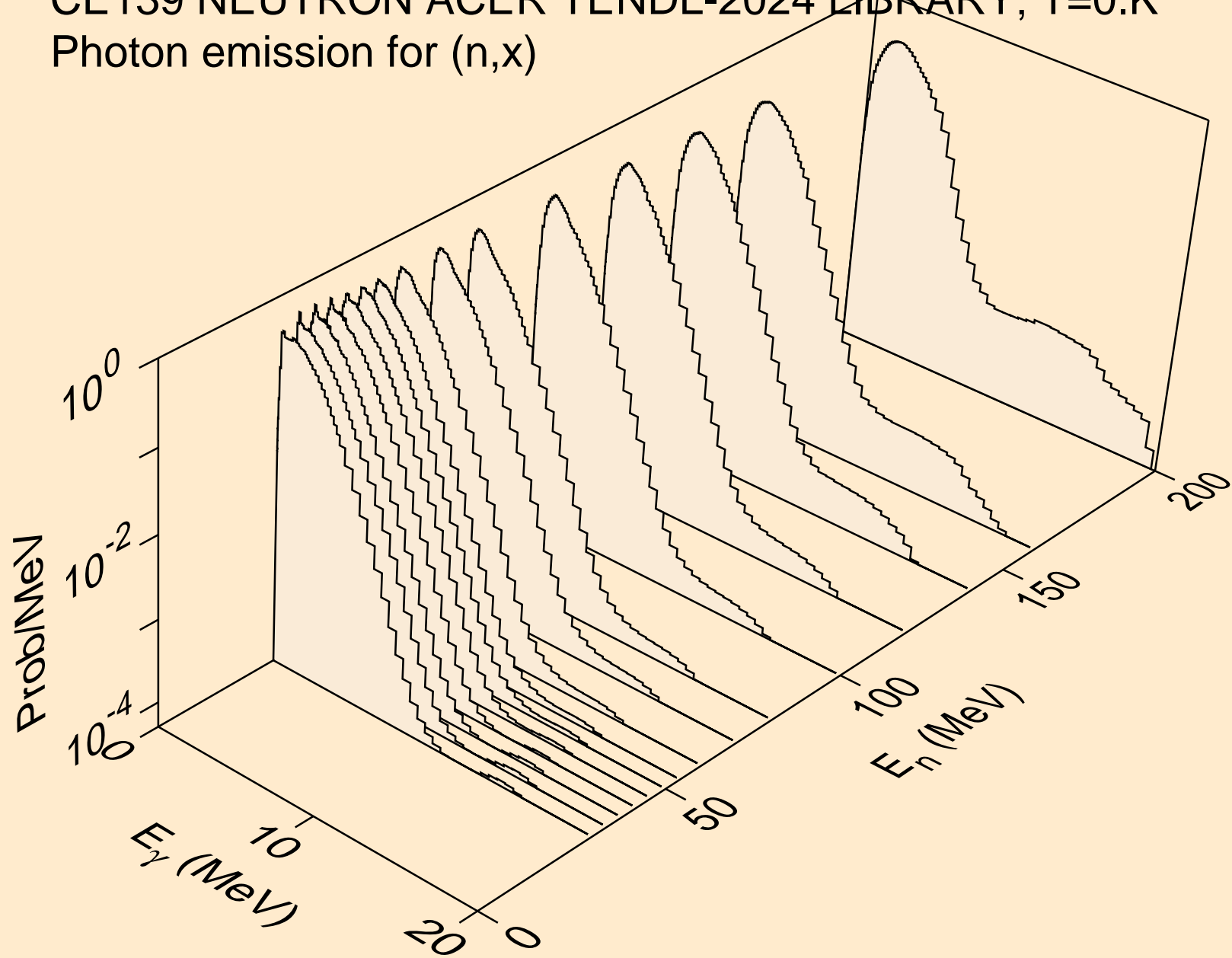




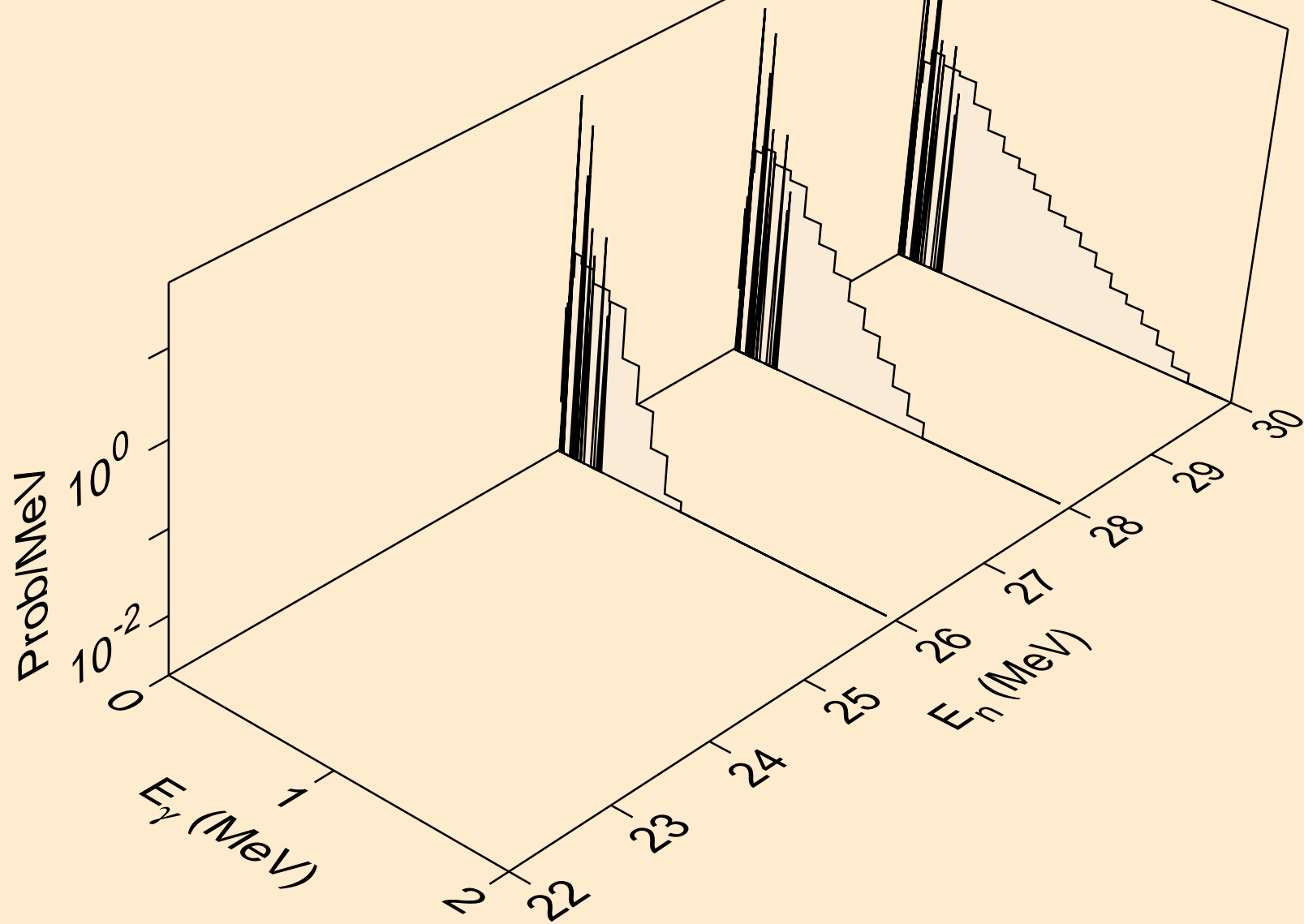
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



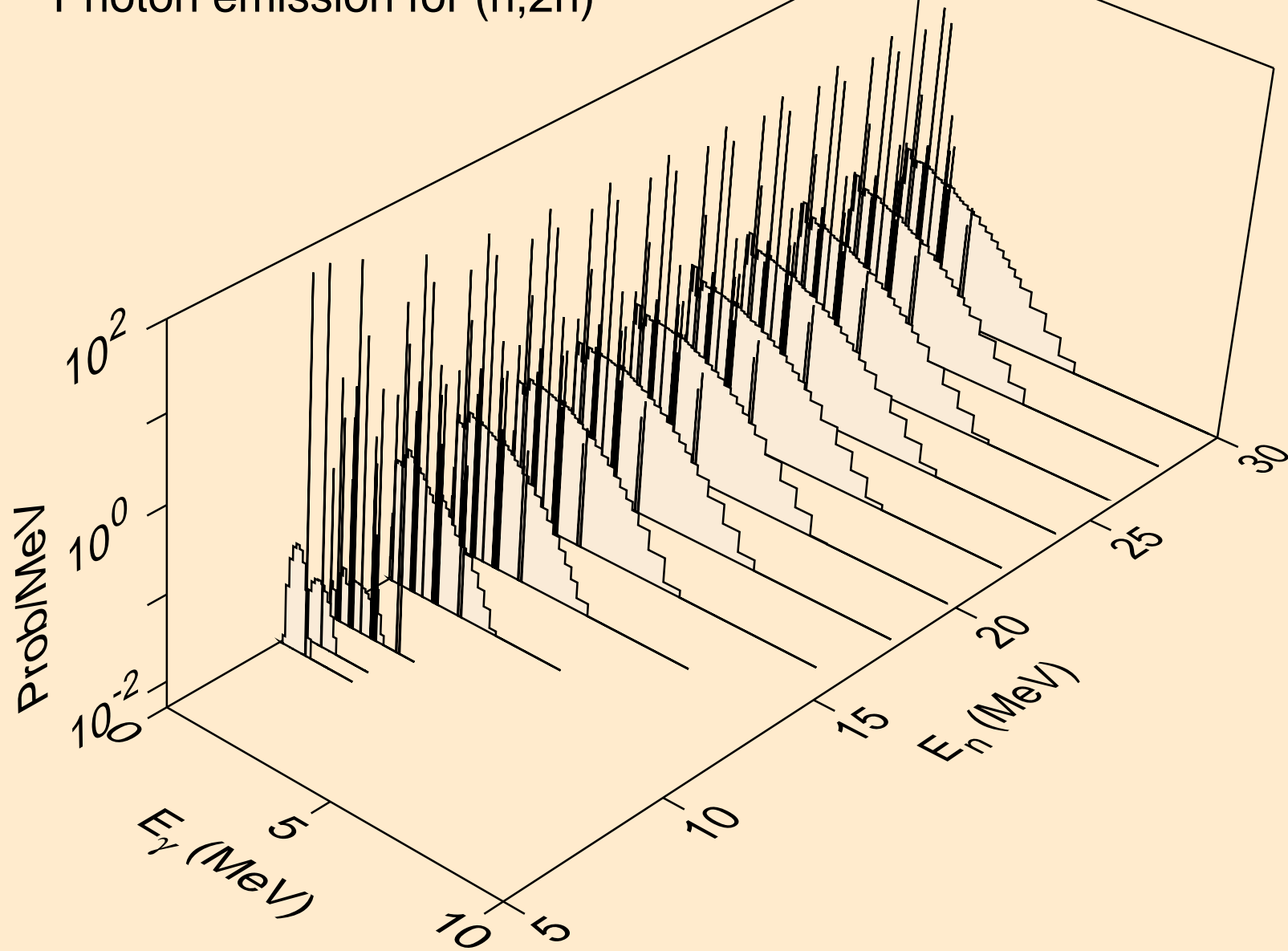
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



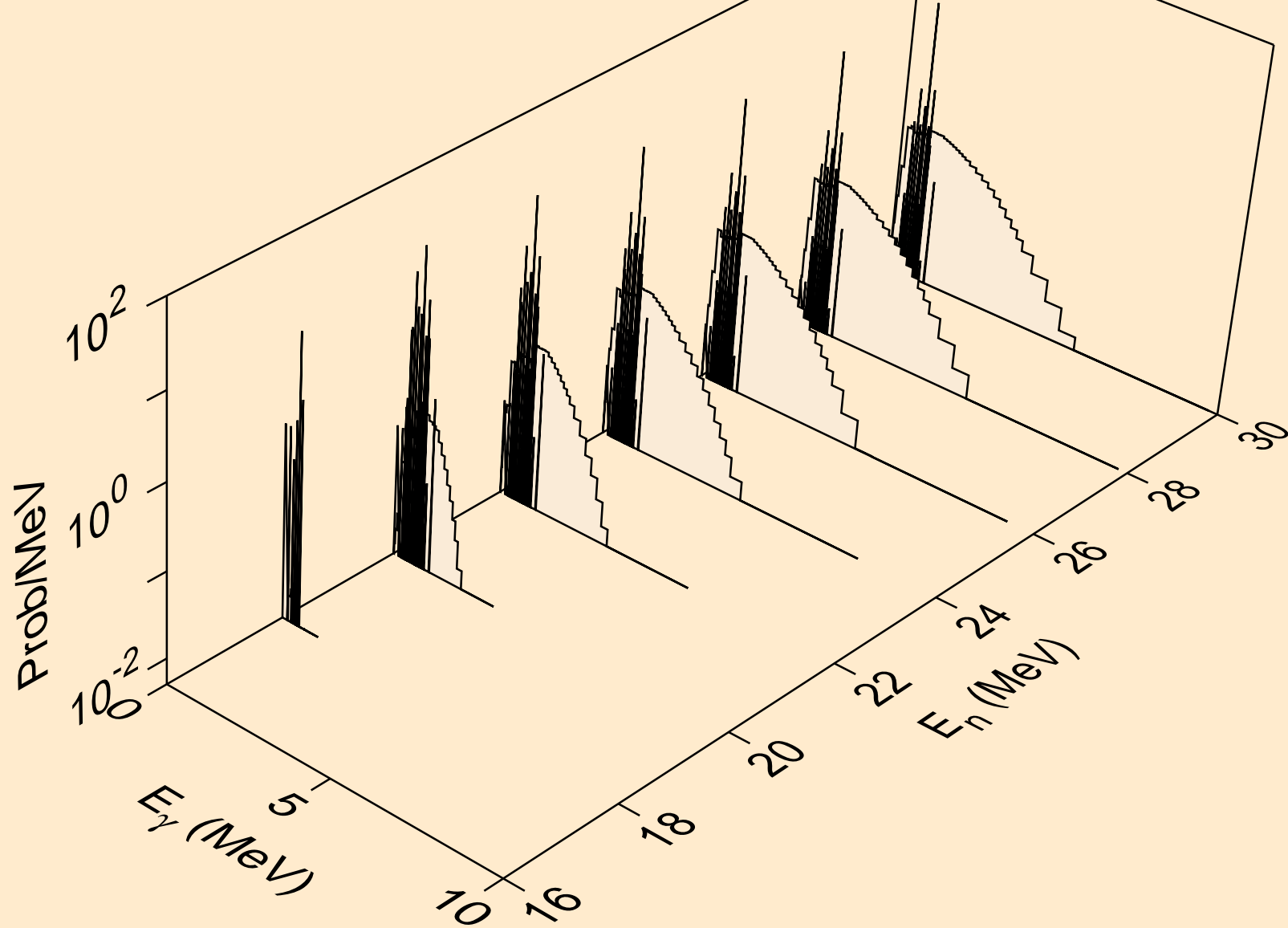
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Photon emission for (n,2nd)



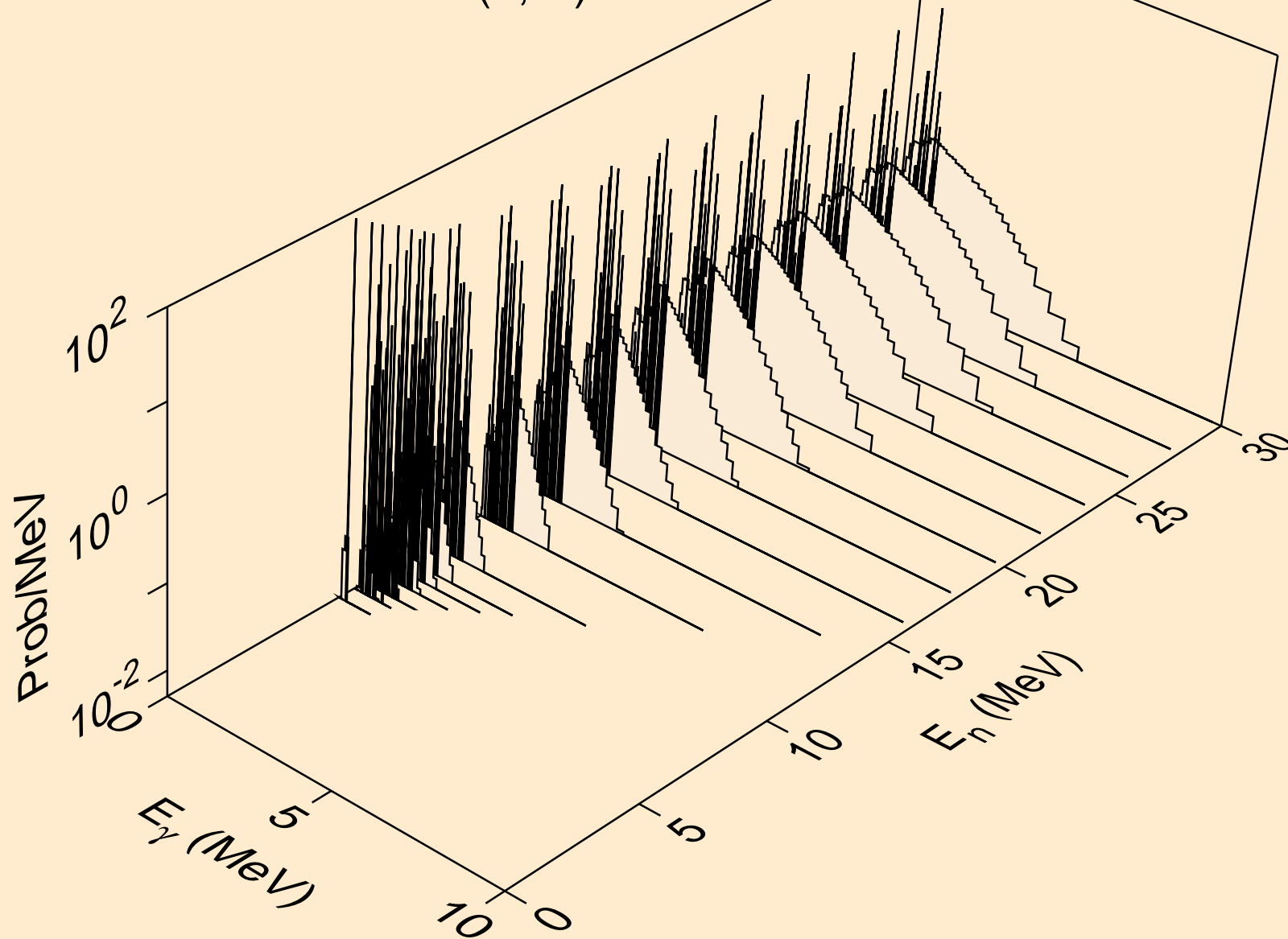
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Photon emission for (n,2n)



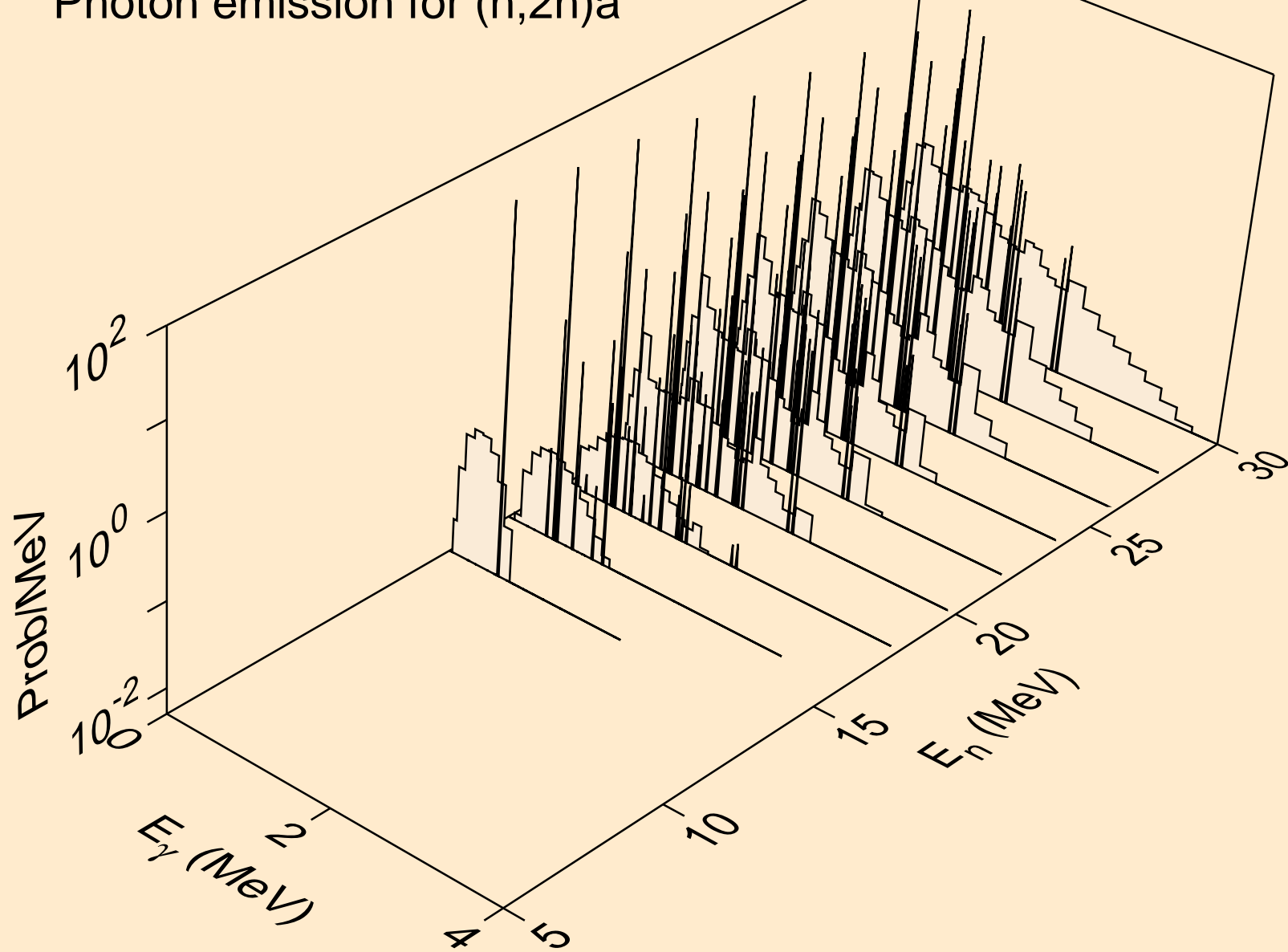
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Photon emission for (n,3n)



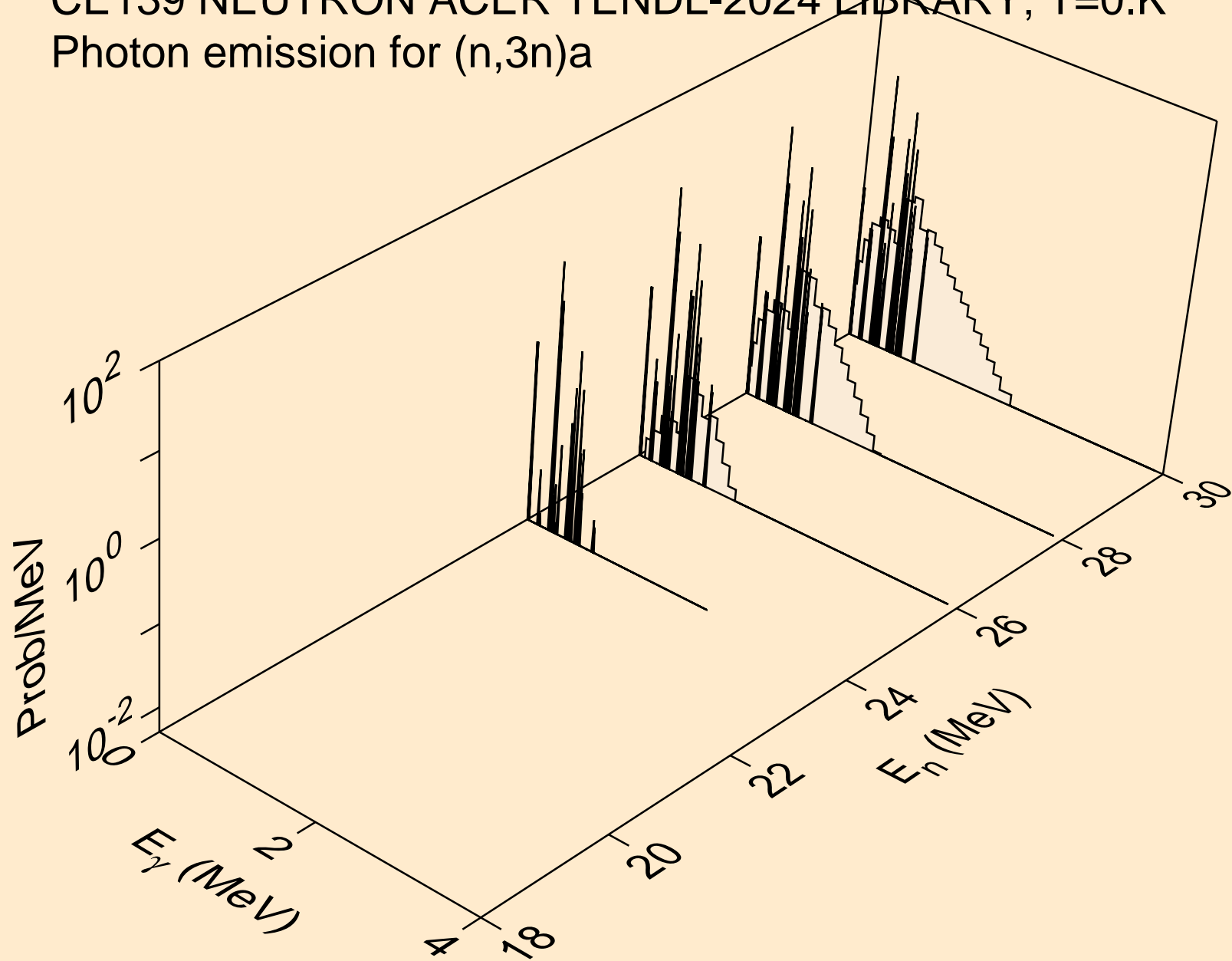
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

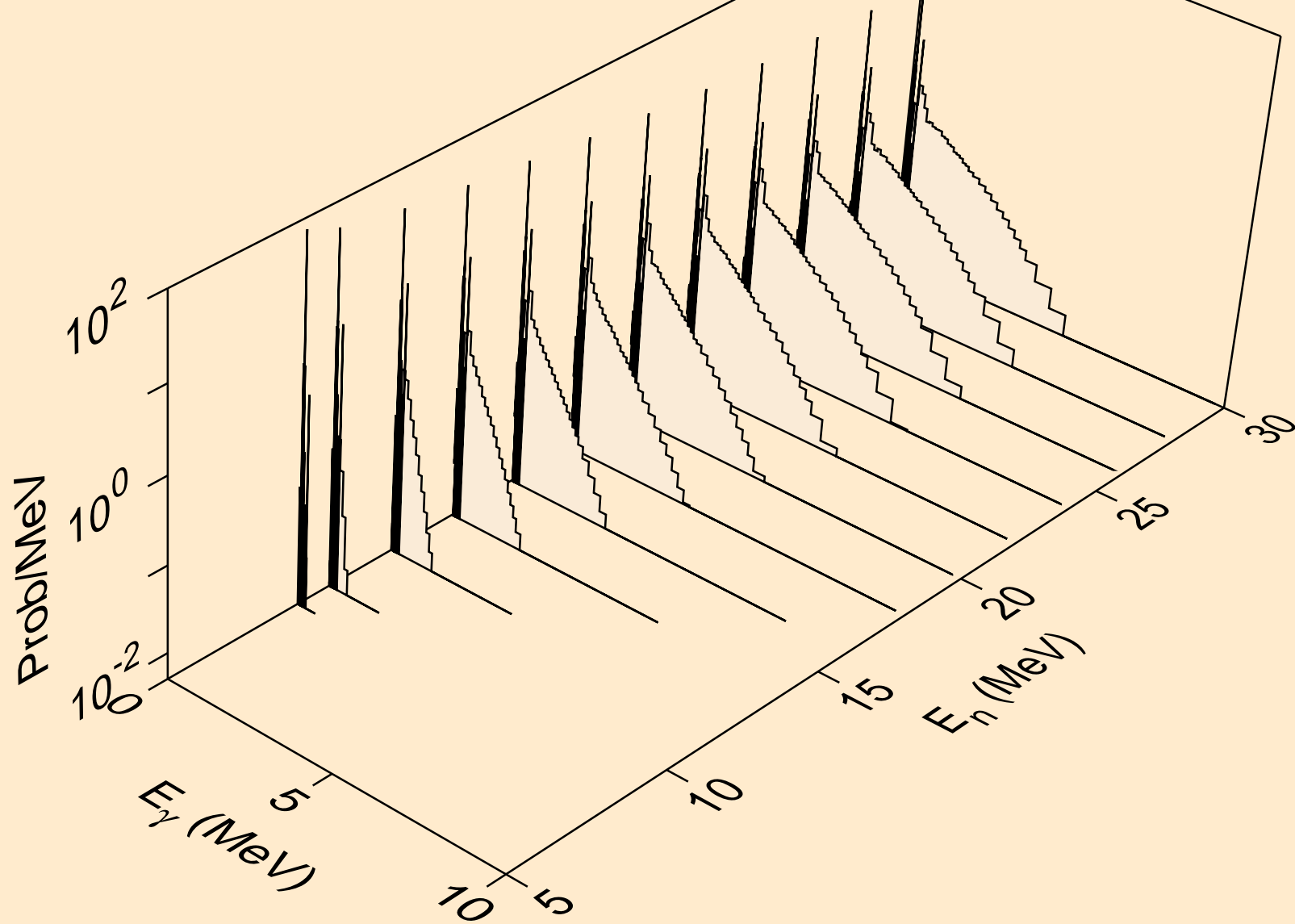


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Photon emission for (n,3n)a

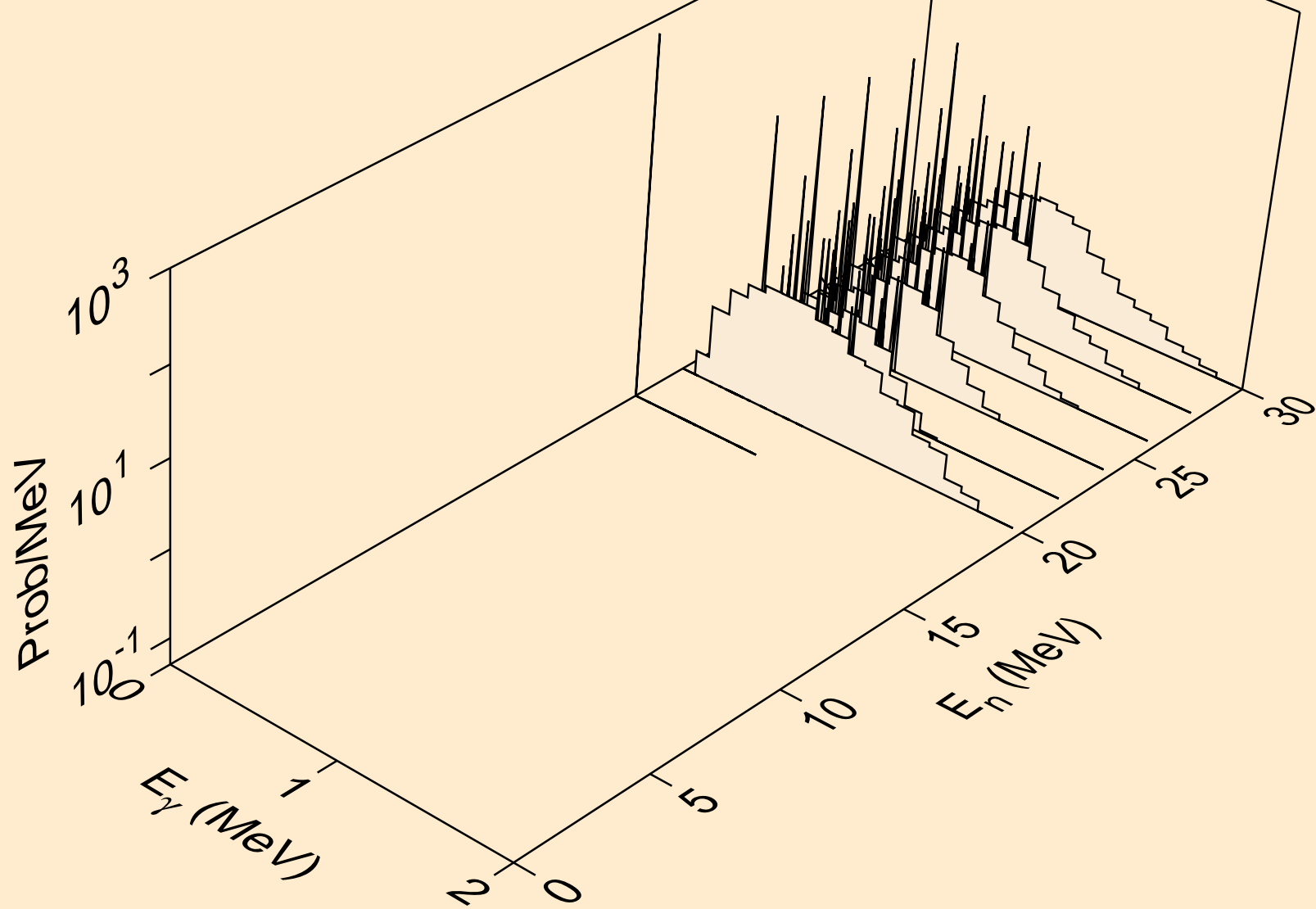




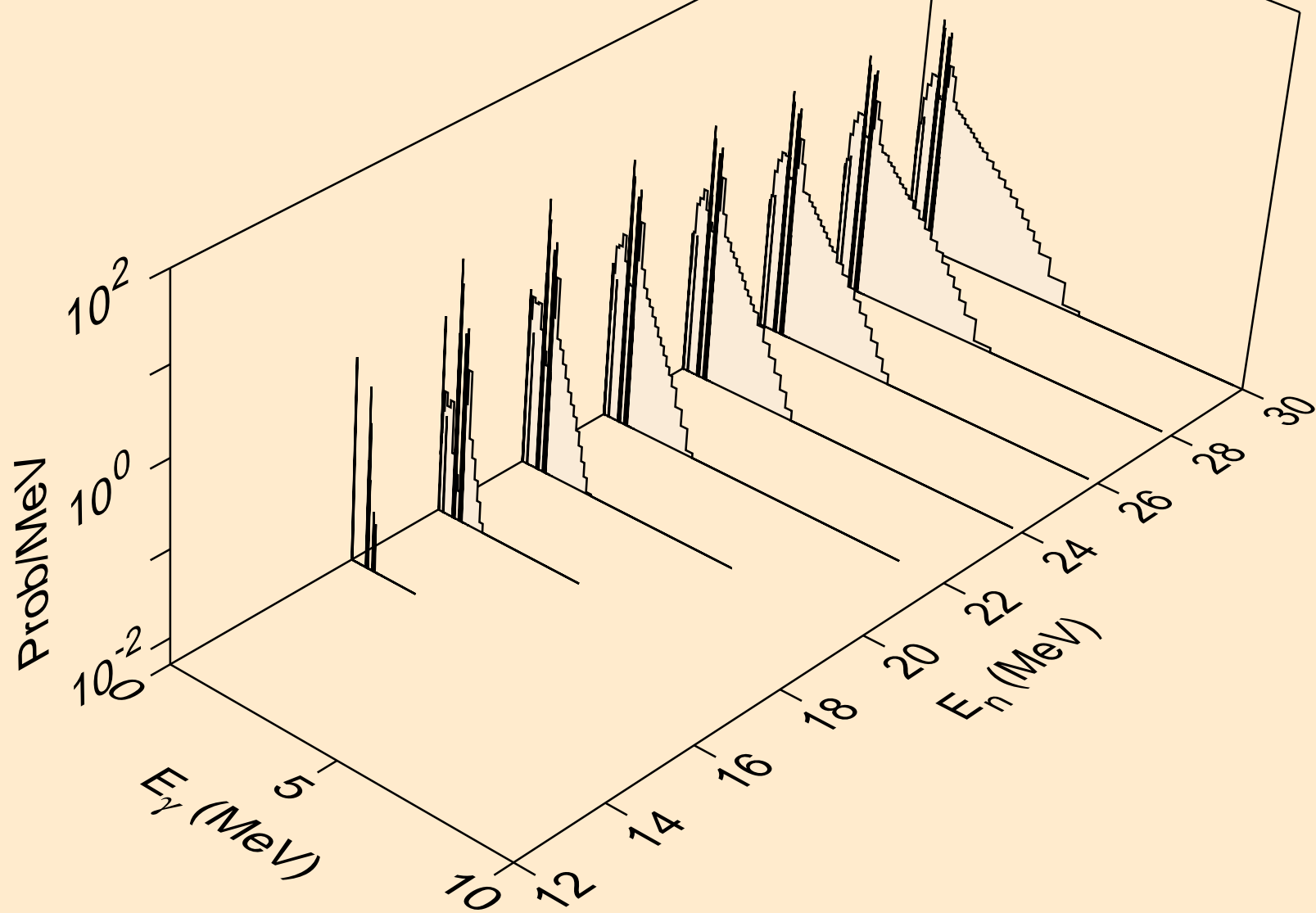
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



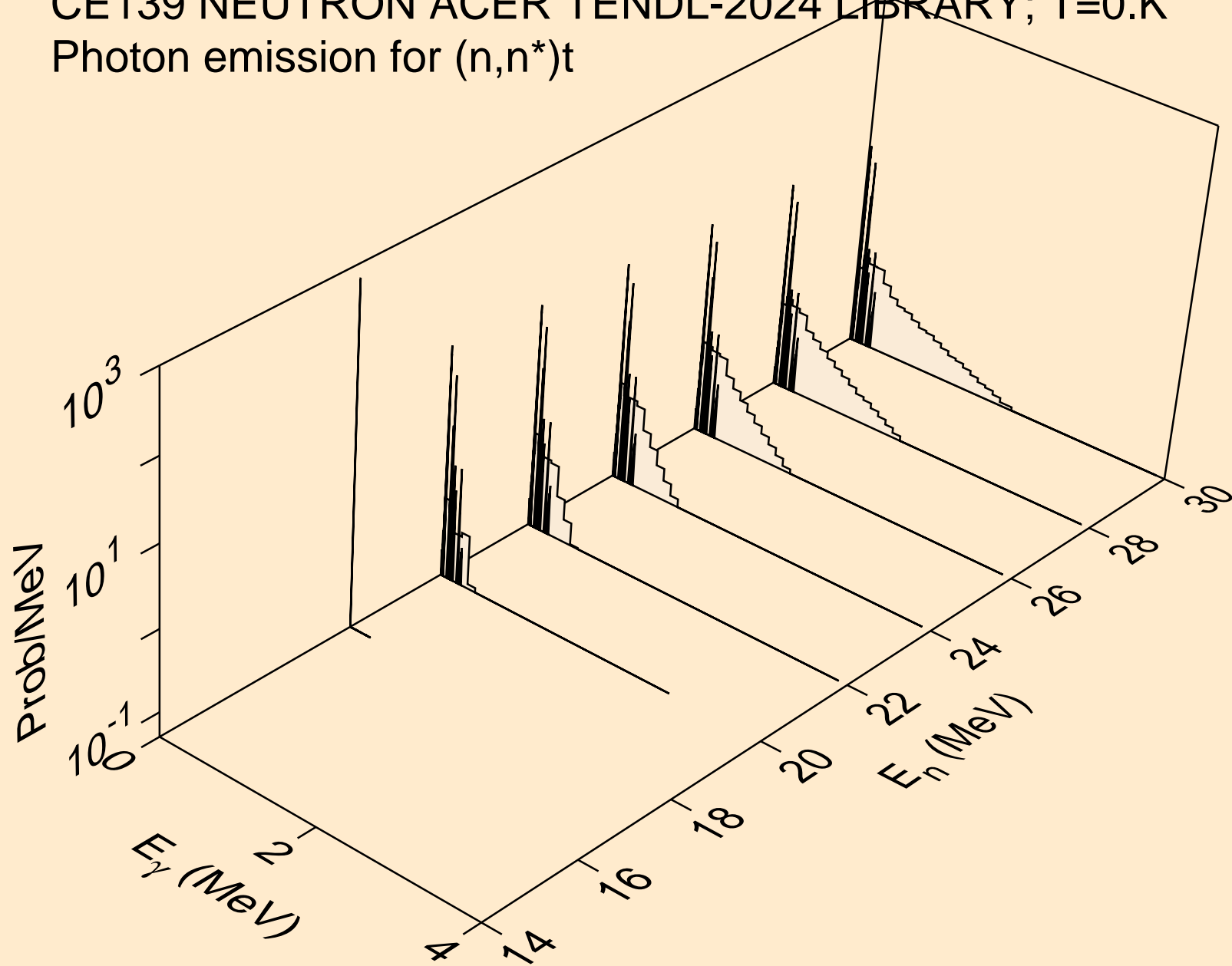
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Photon emission for (n,n\*)2a



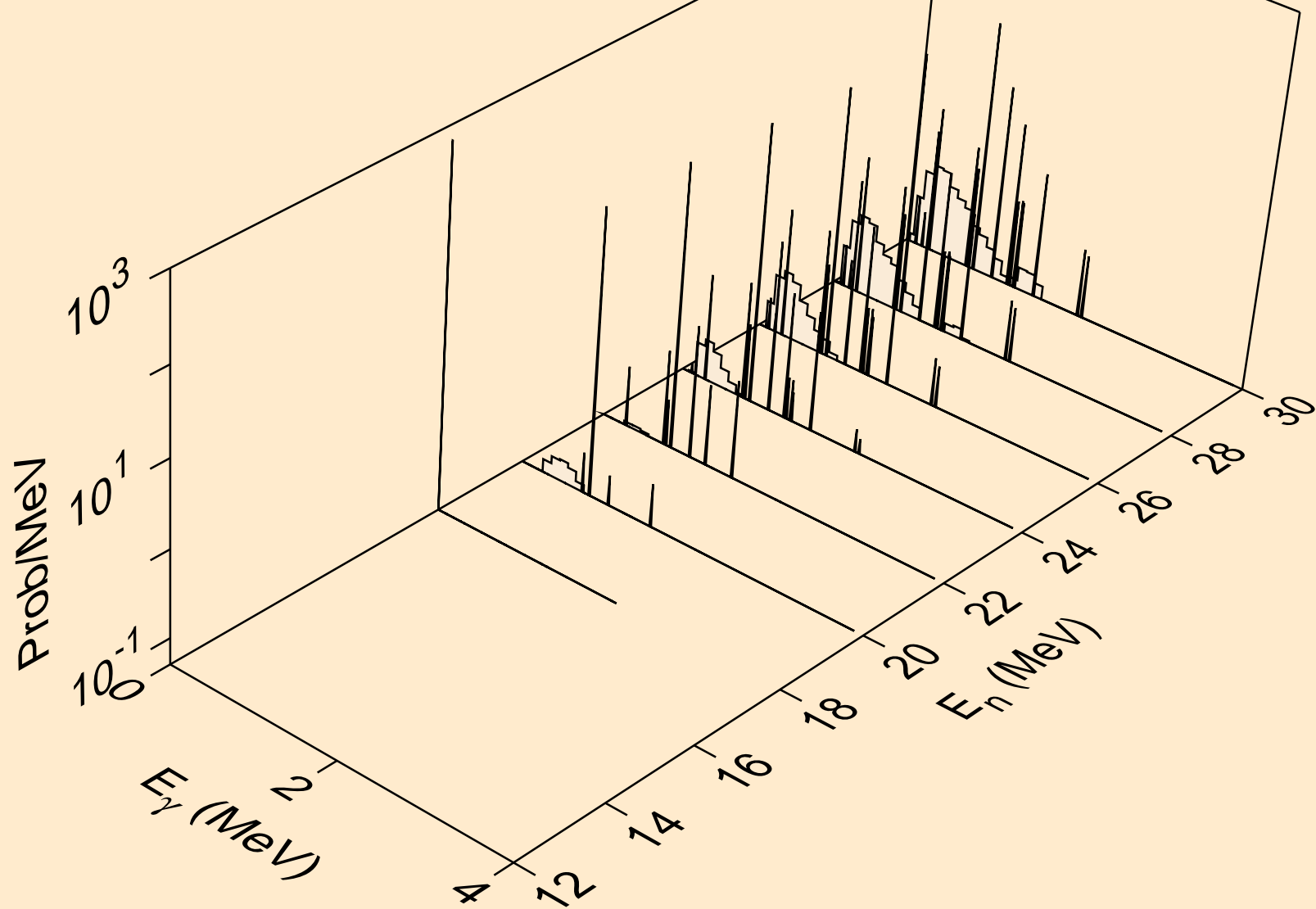
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Photon emission for (n,n\*)d



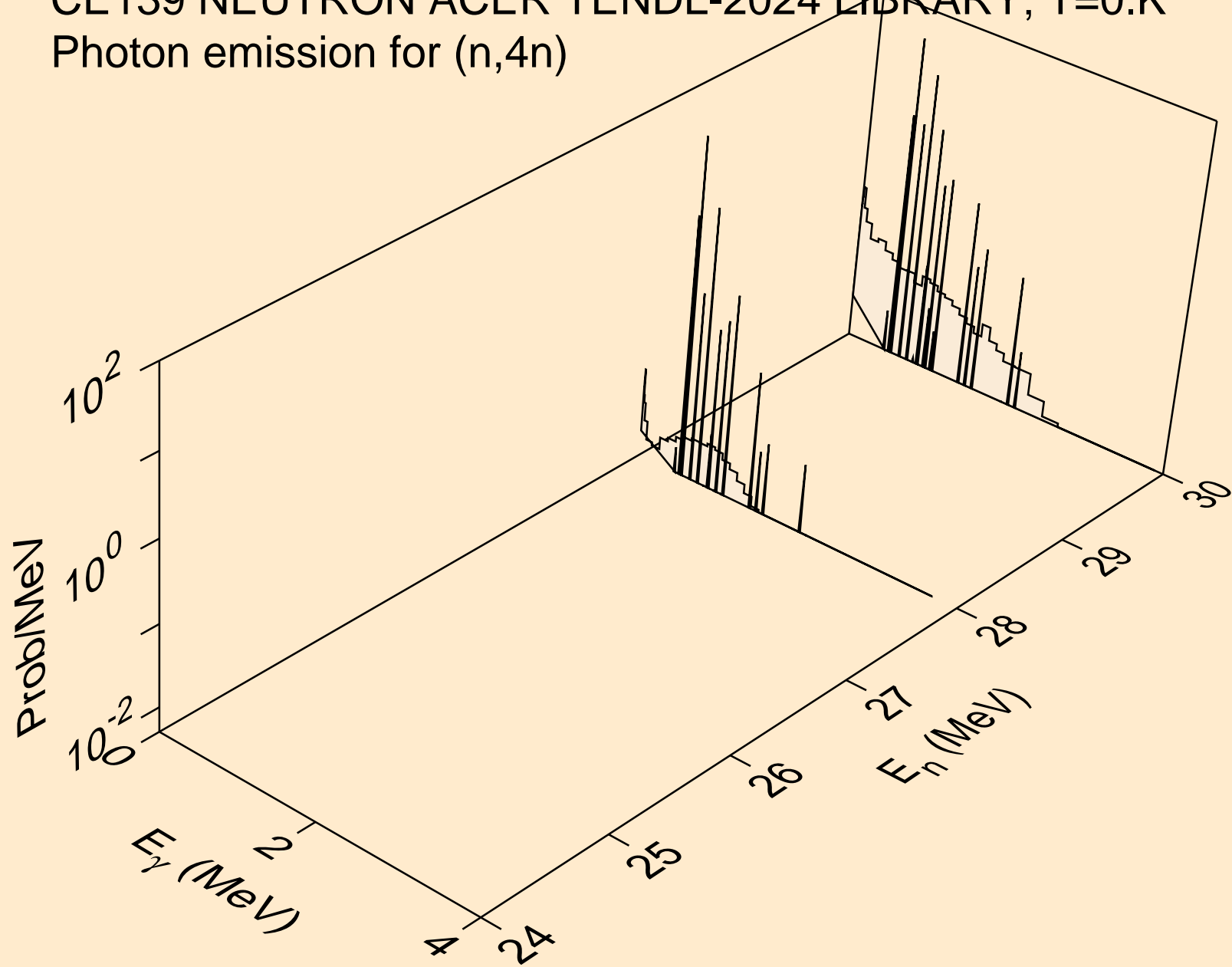
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Photon emission for (n,n\*)t



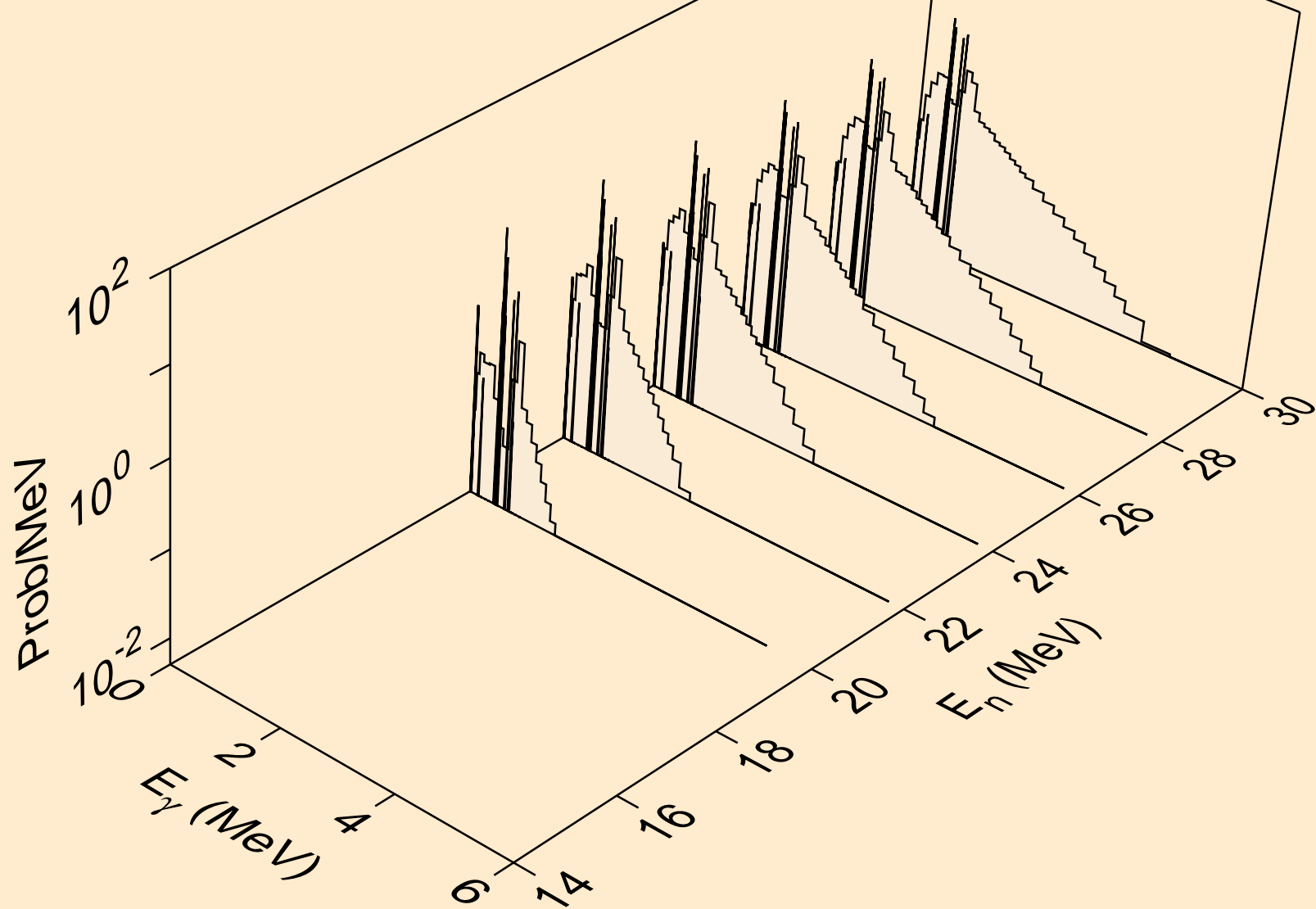
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



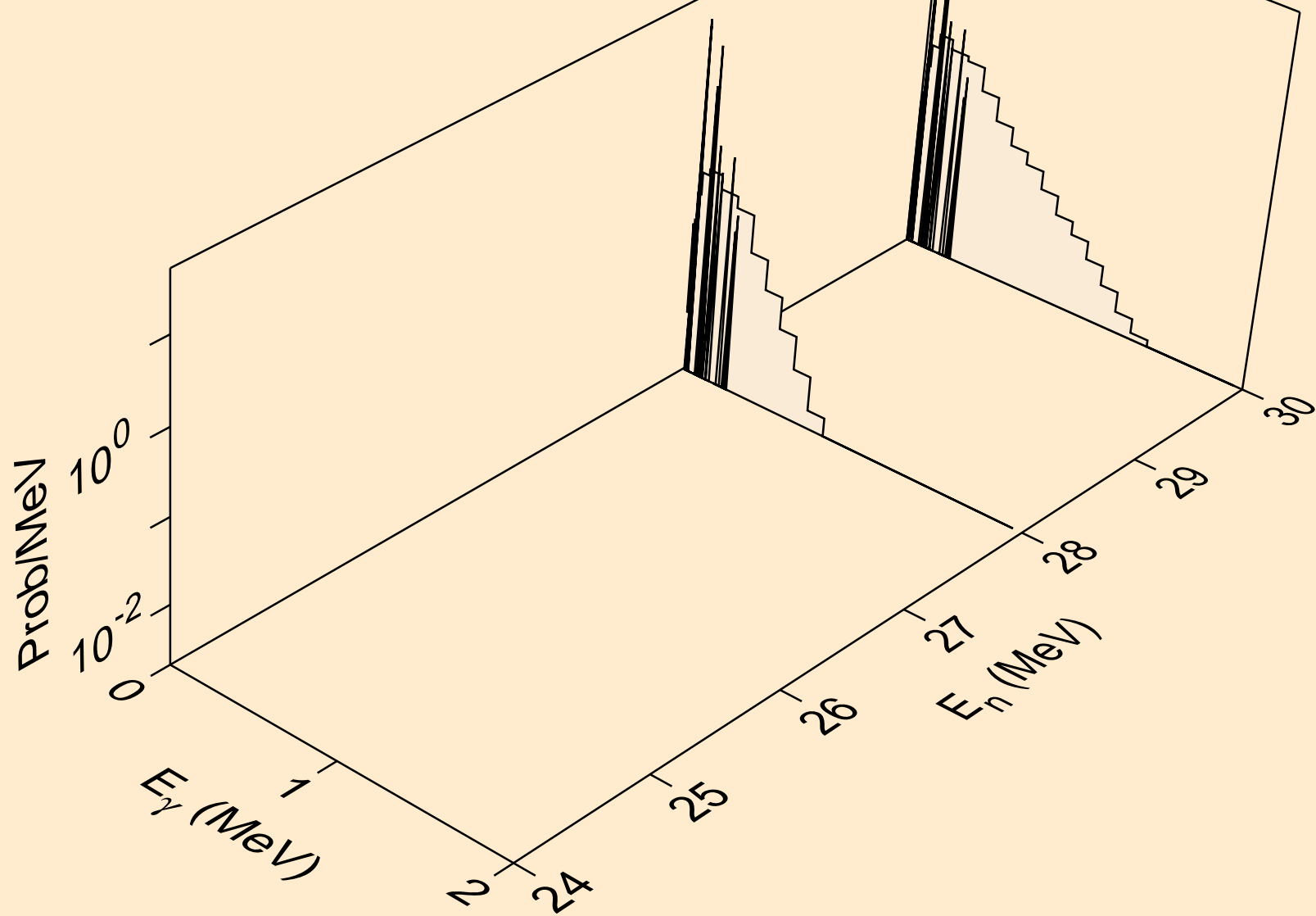
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)

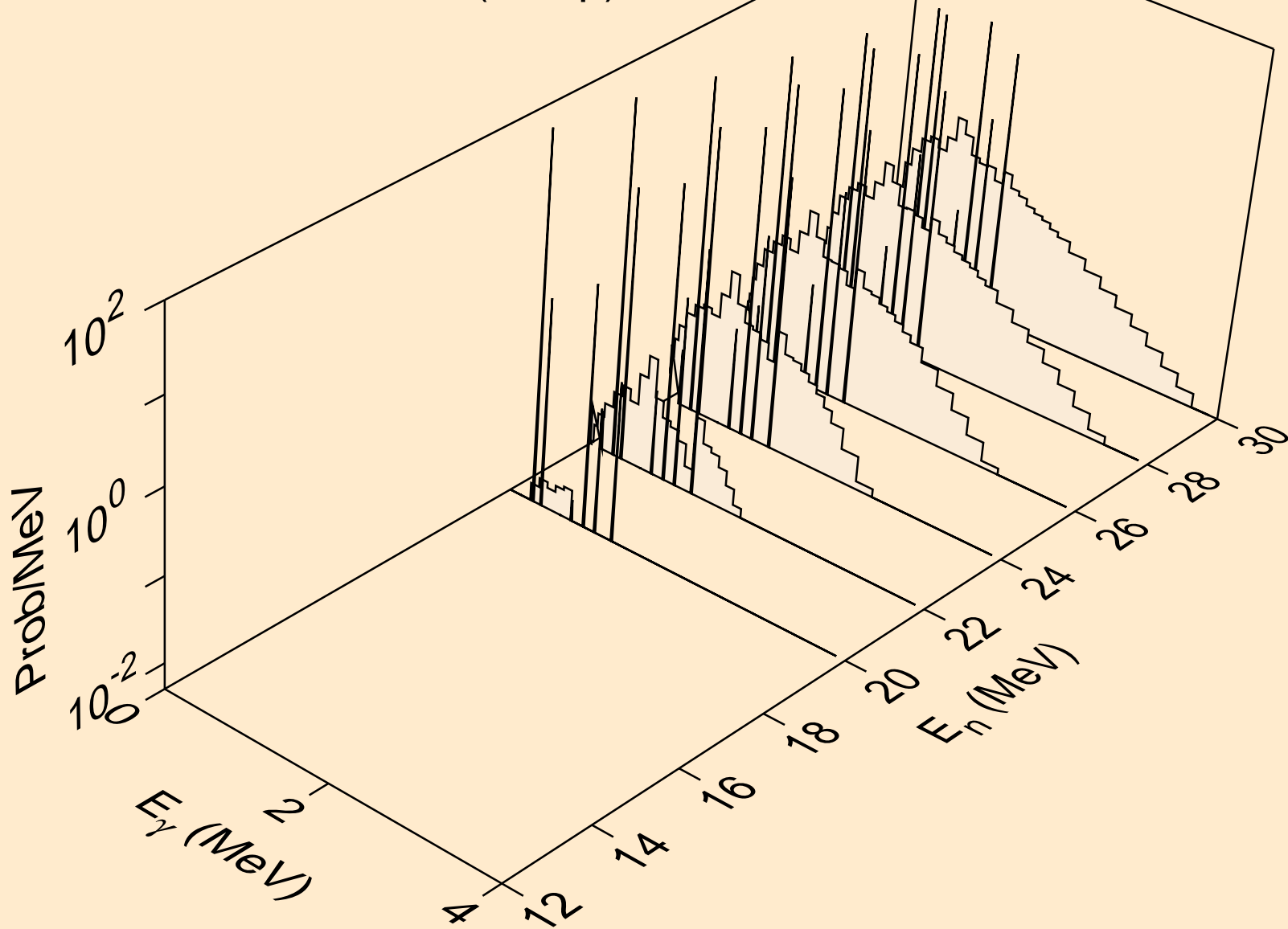


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Photon emission for (n,3np)

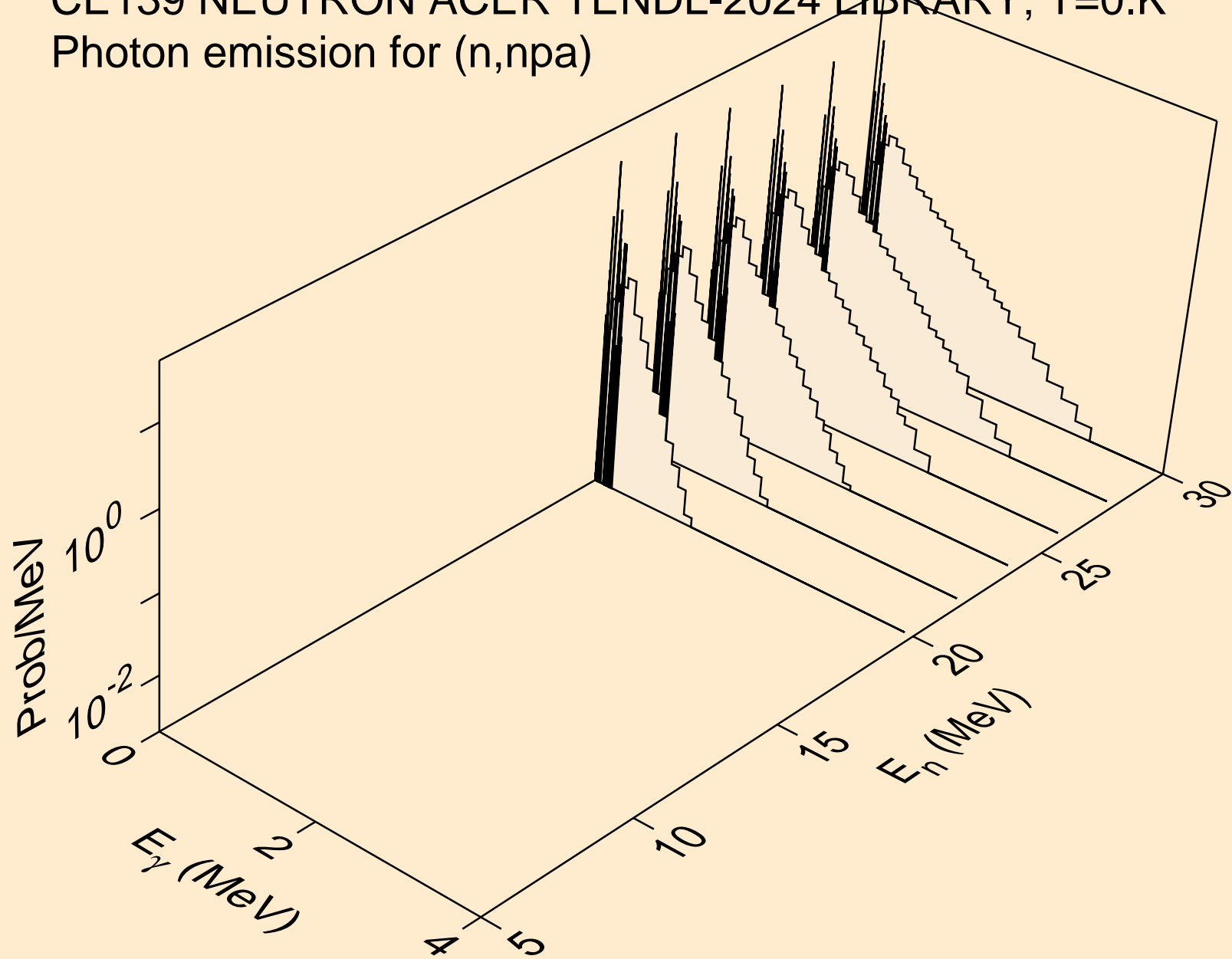




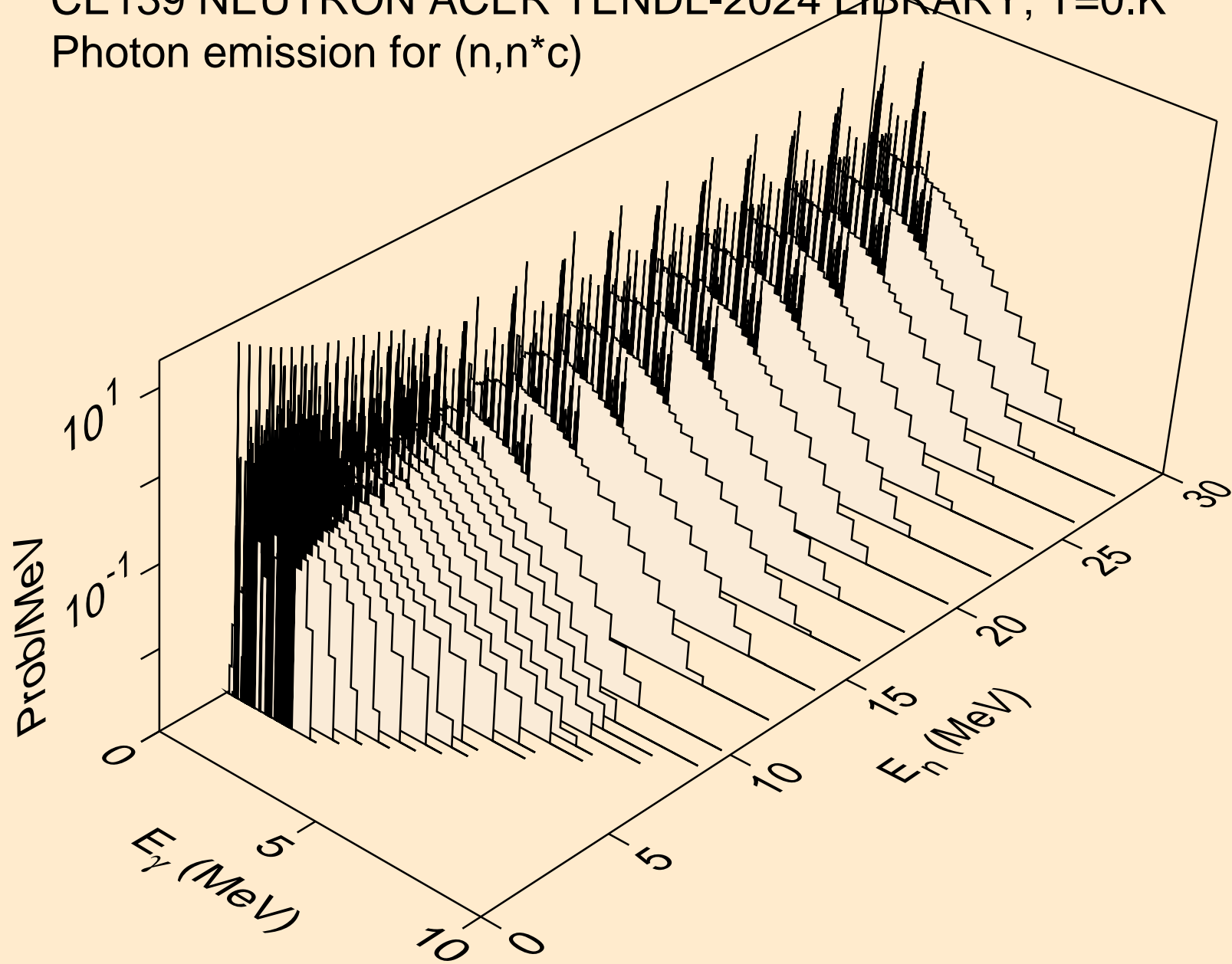
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Photon emission for (n,n2p)



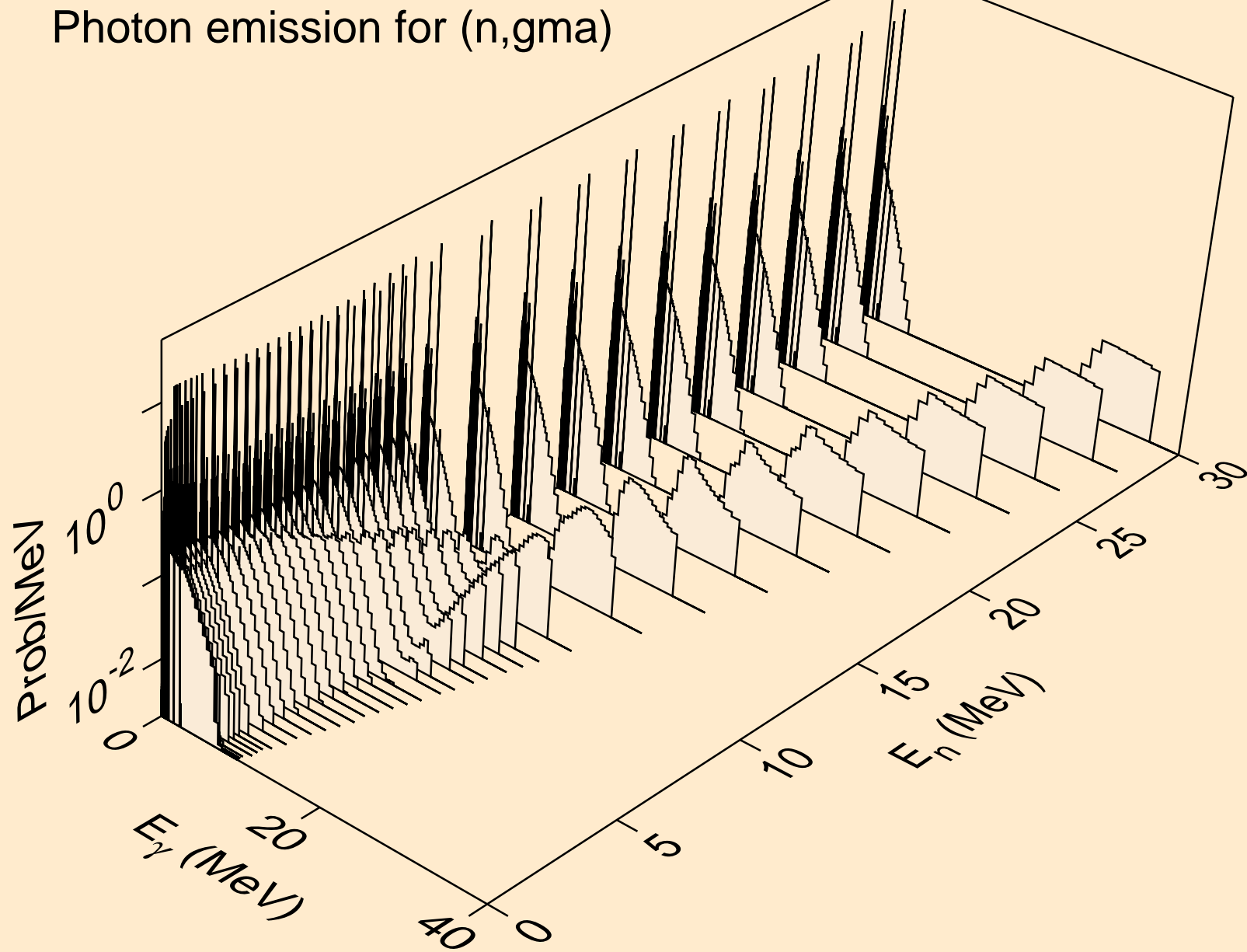
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Photon emission for (n,npa)



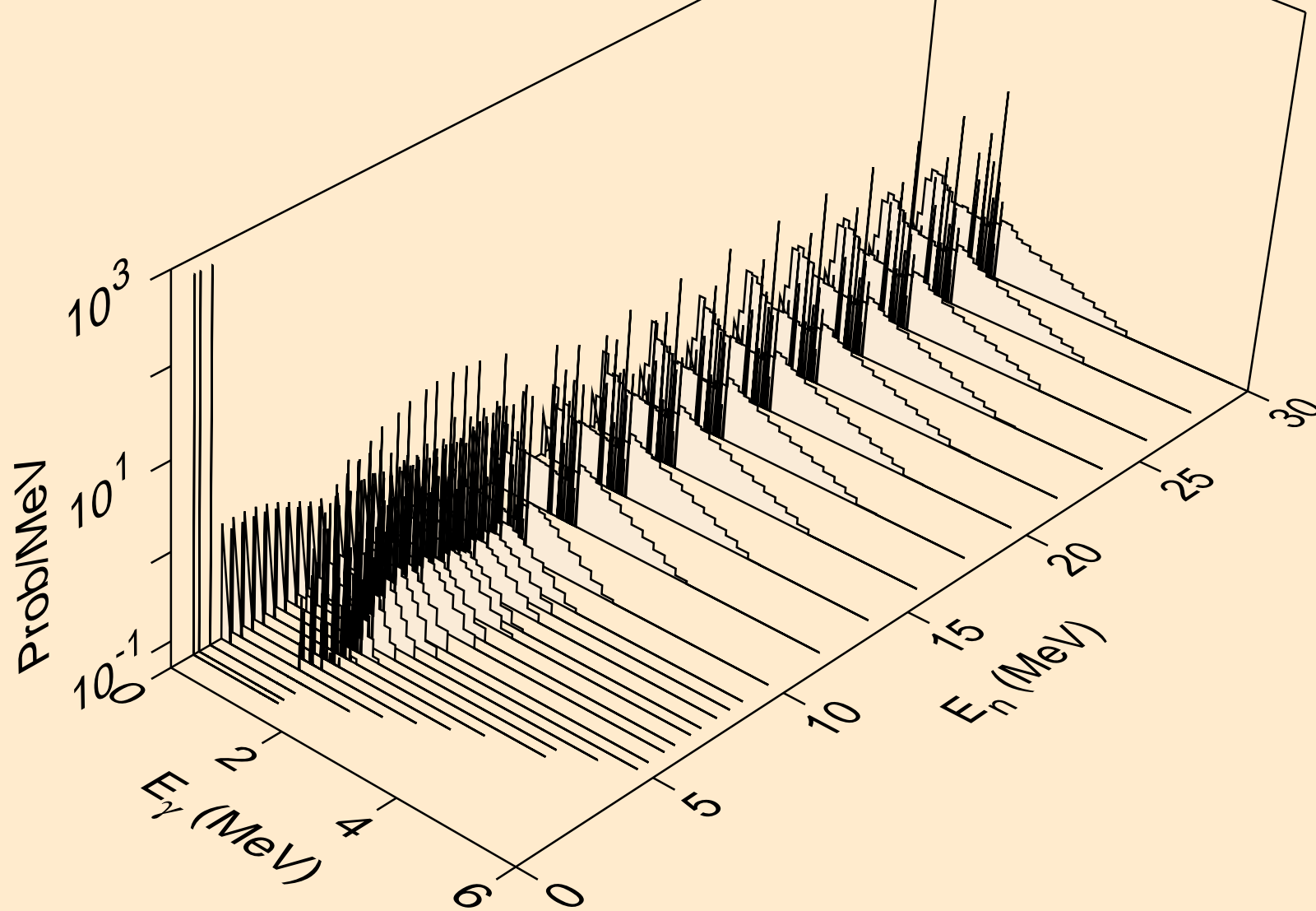
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Photon emission for (n,n\*c)



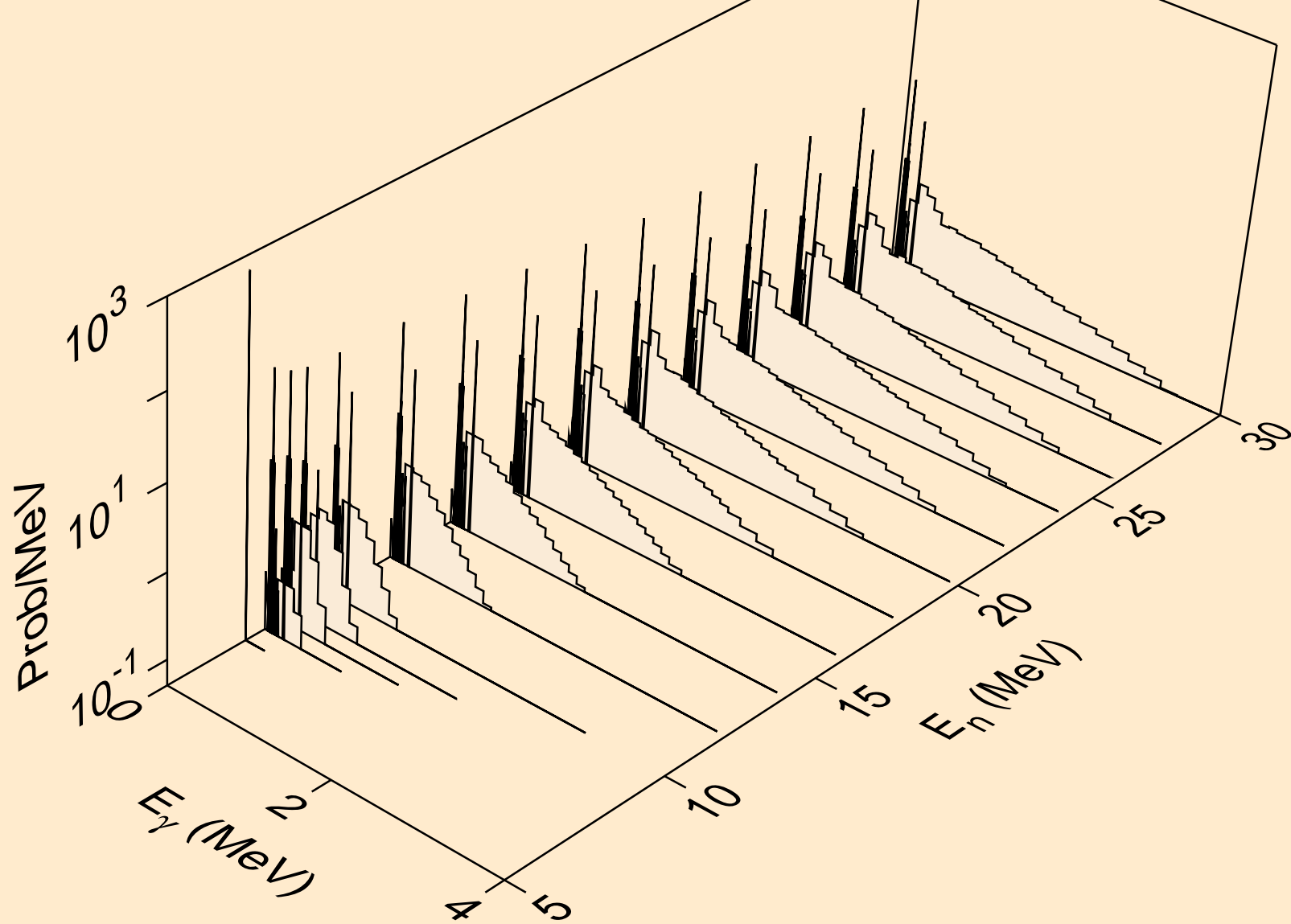
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Photon emission for (n,gma)



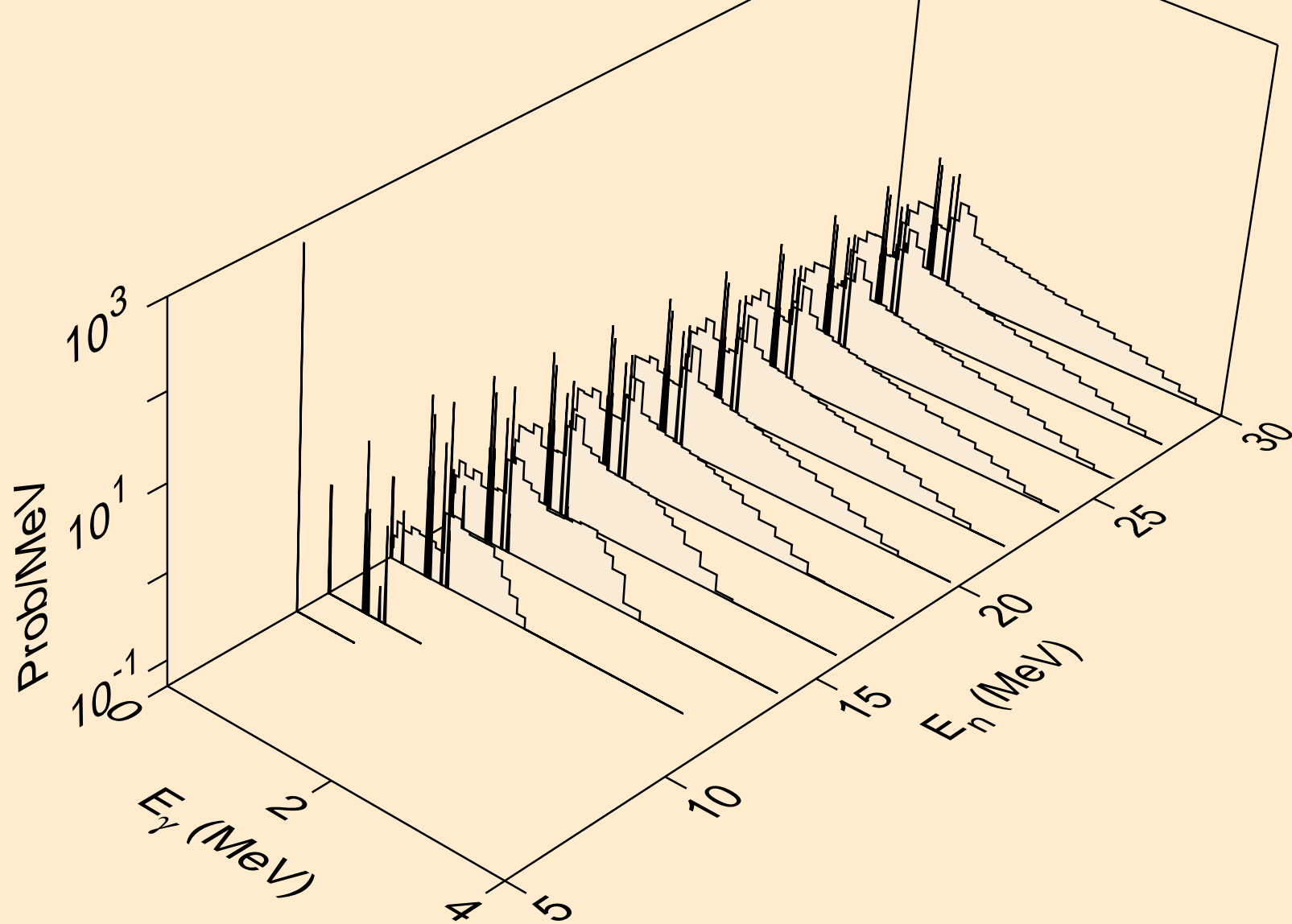
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Photon emission for (n,p)



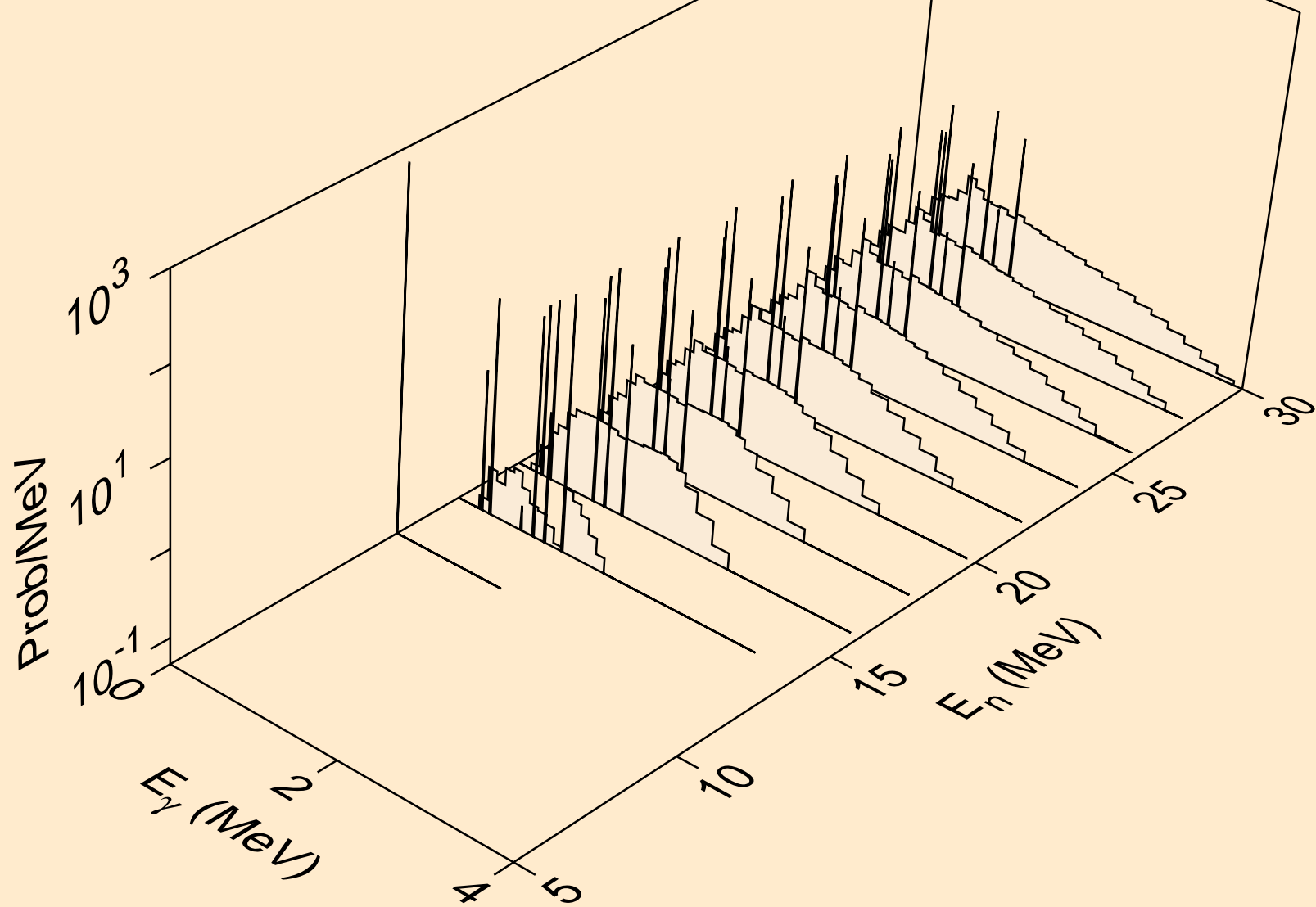
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)

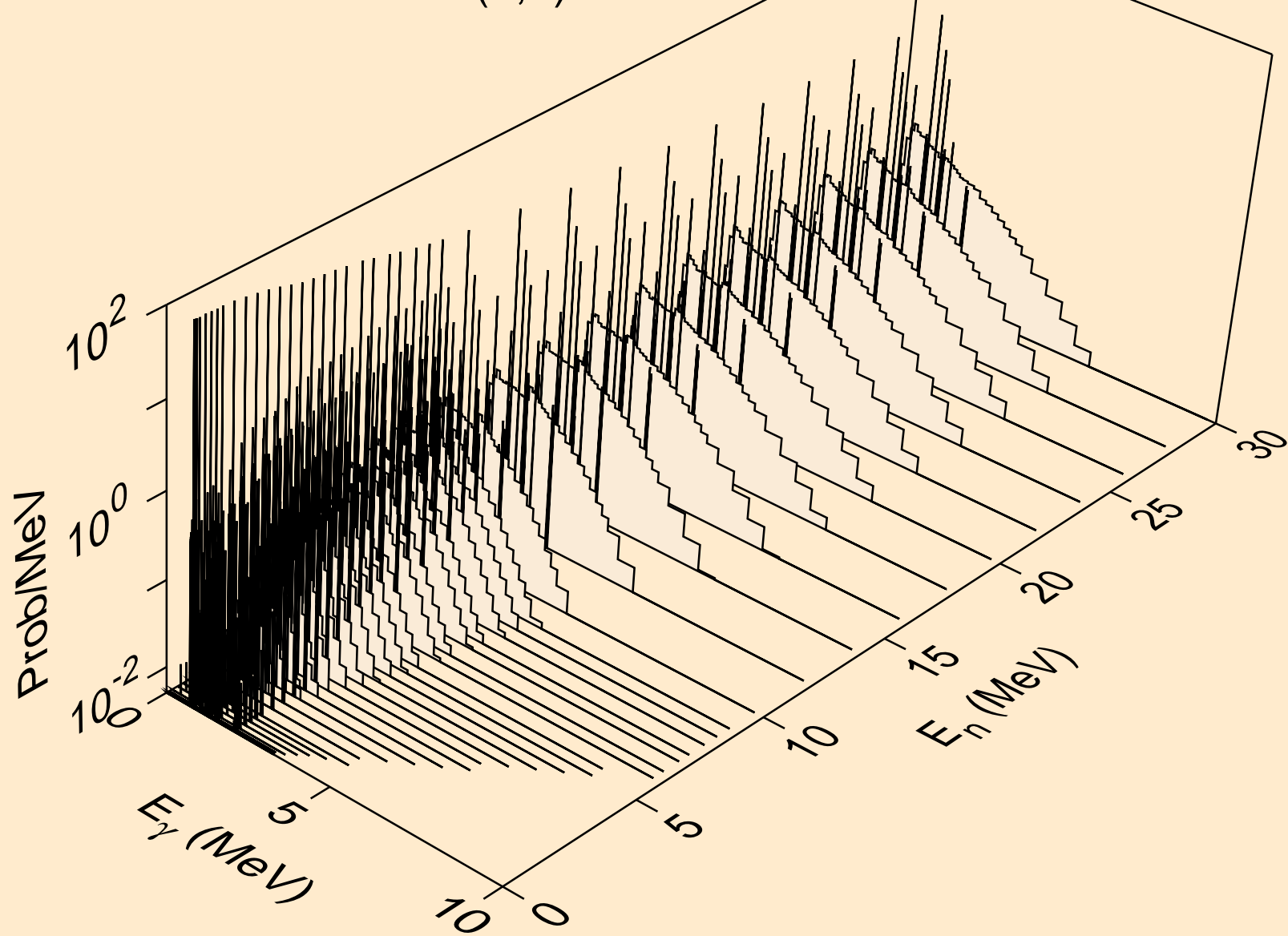


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Photon emission for (n,he3)

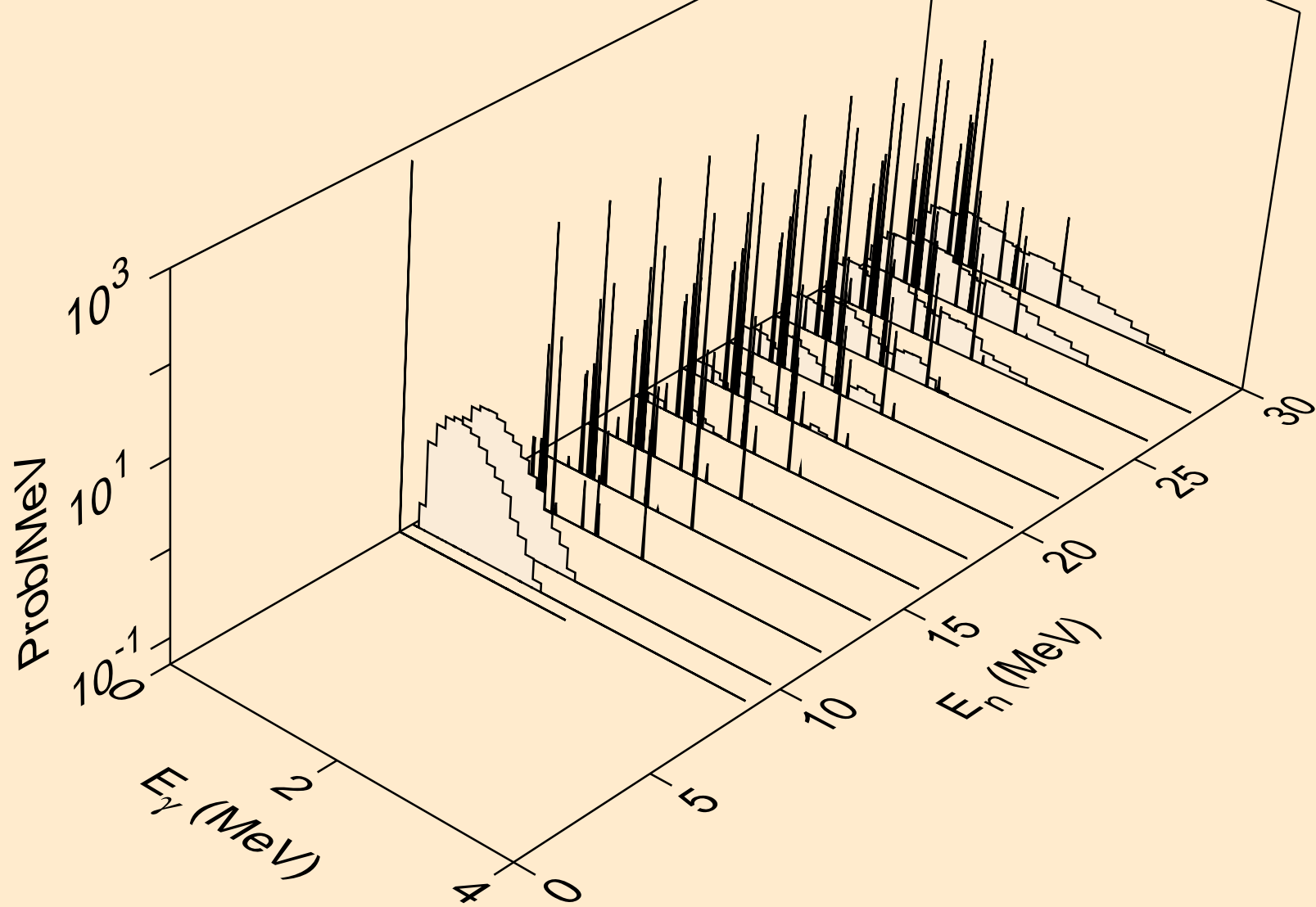




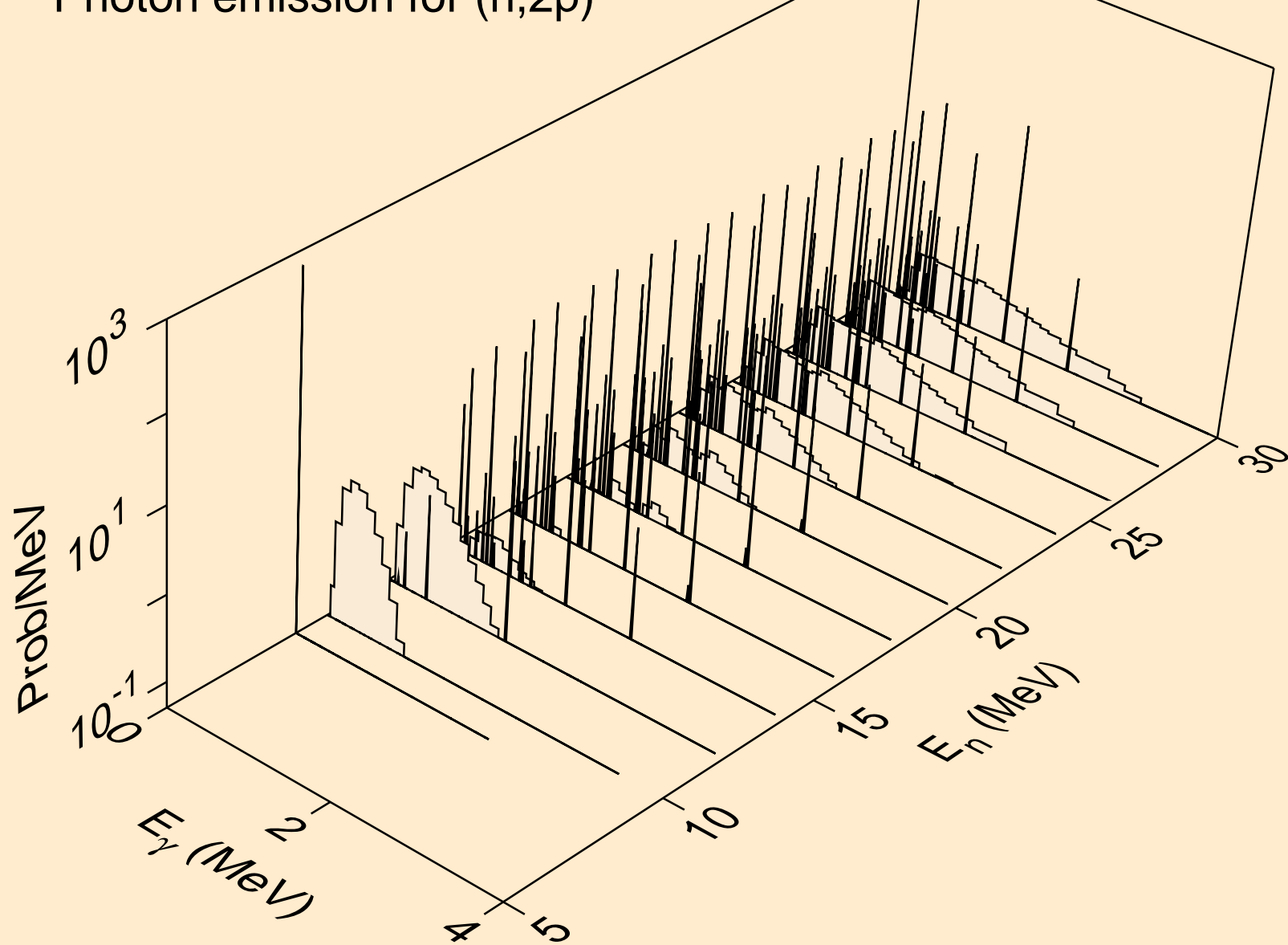
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Photon emission for (n,a)



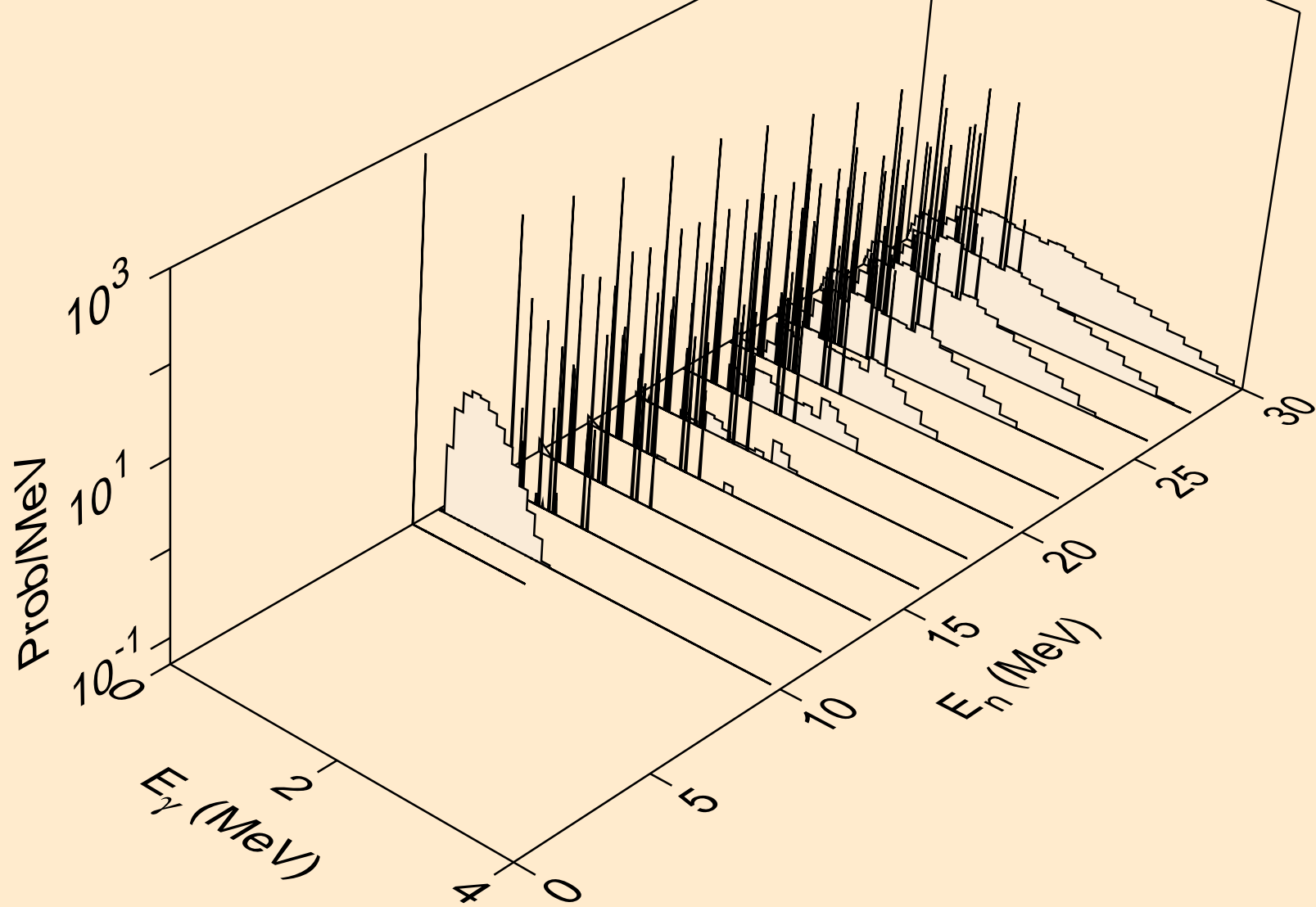
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Photon emission for (n,2a)



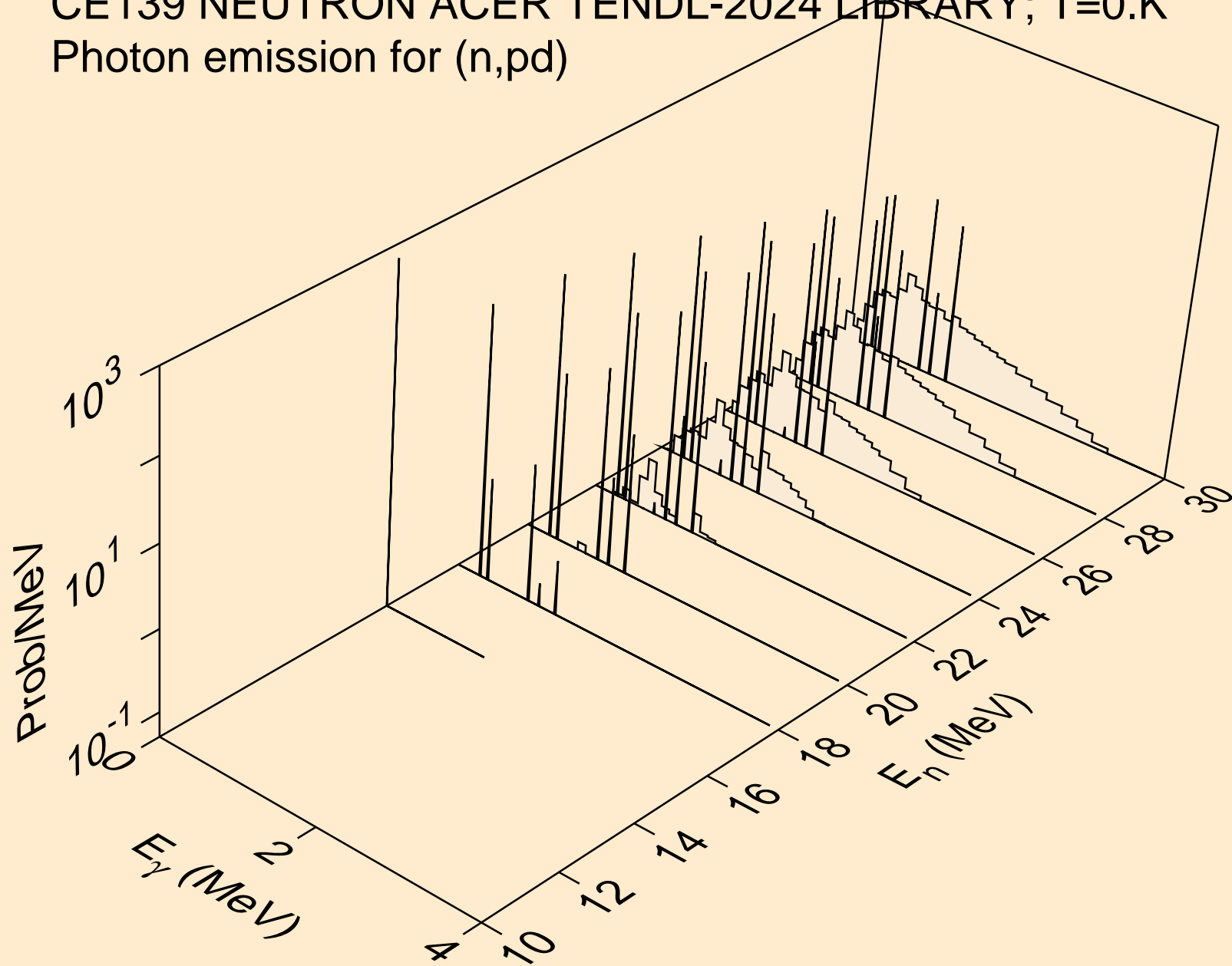
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Photon emission for (n,2p)



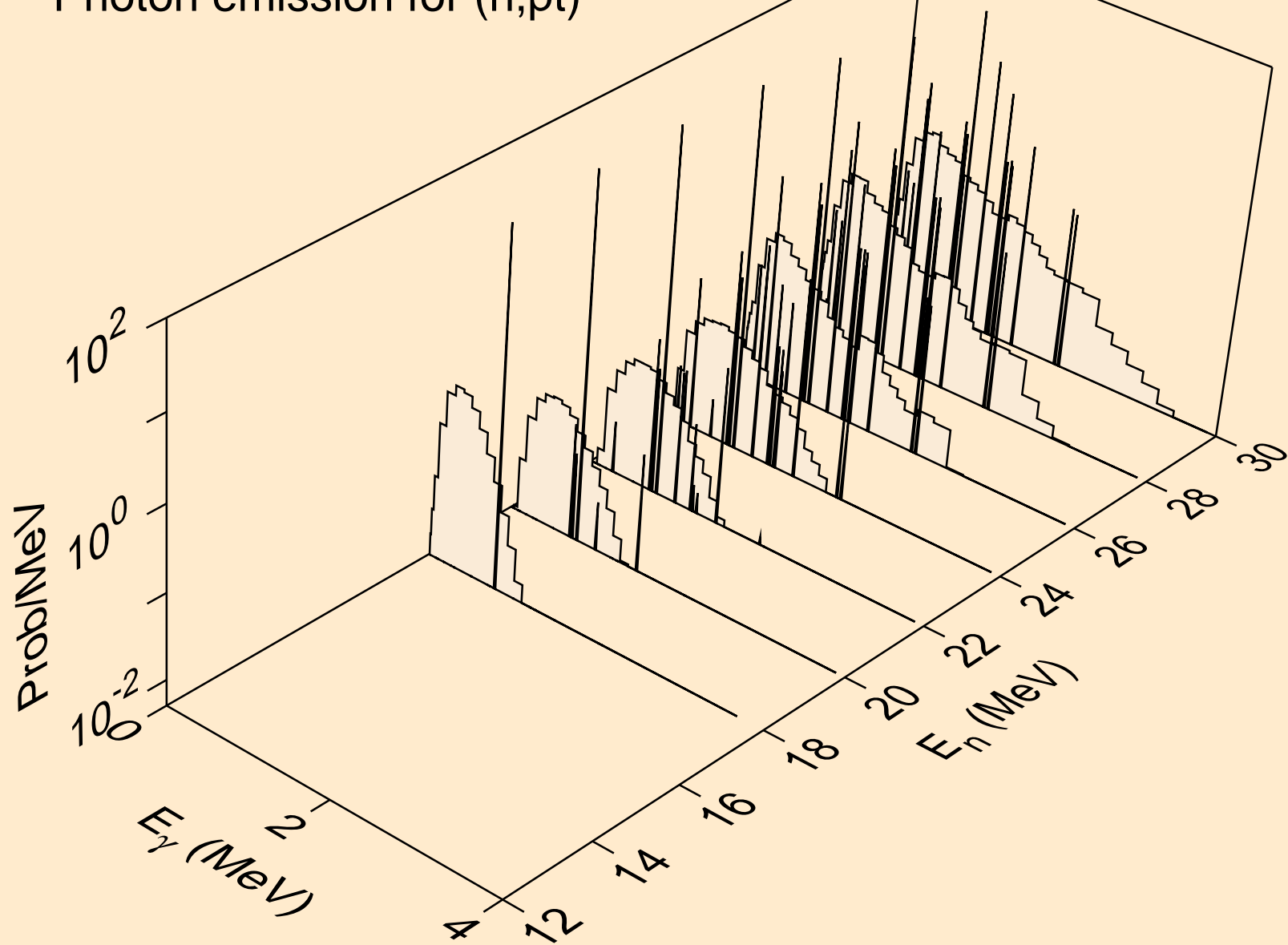
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Photon emission for (n,p)



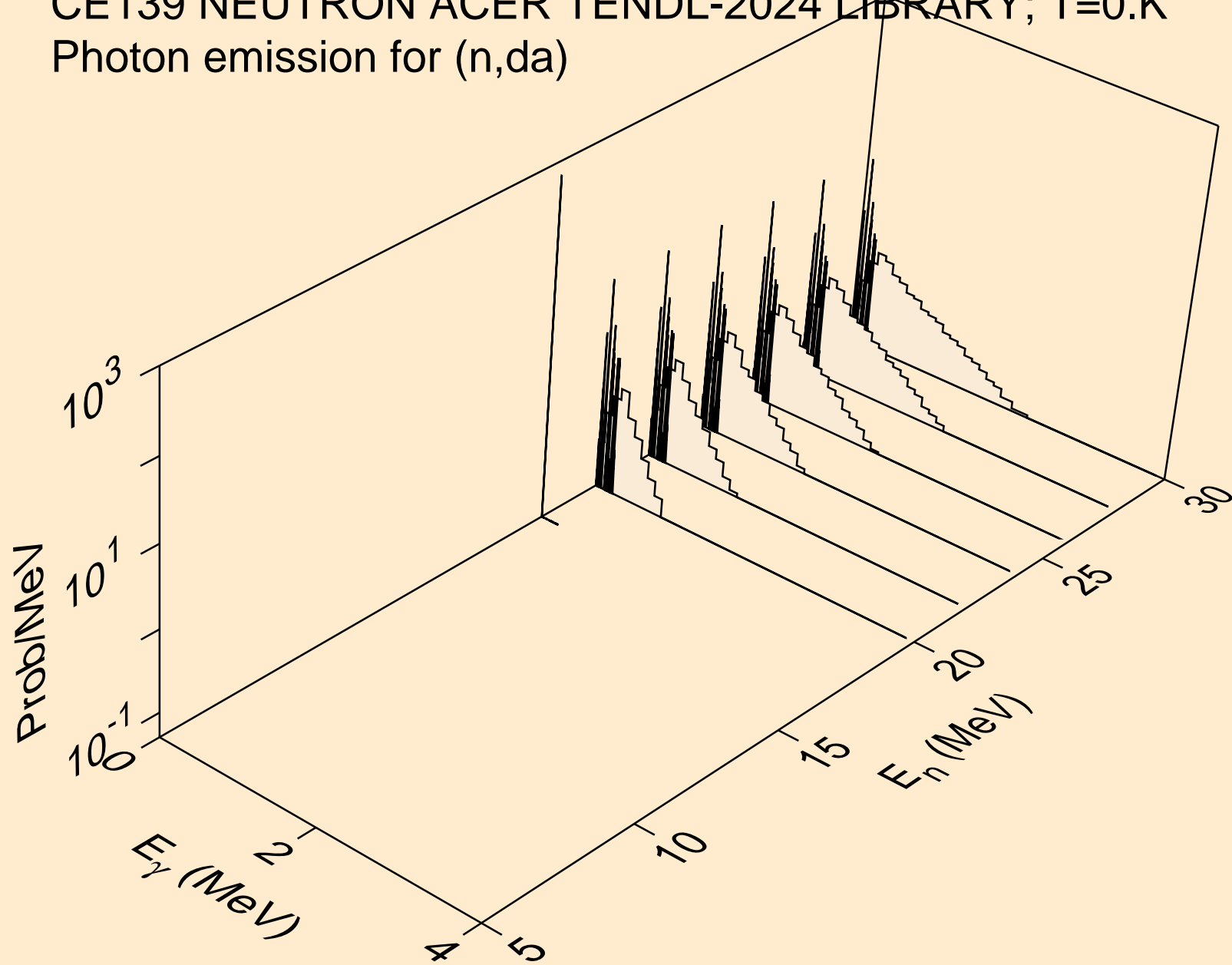
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Photon emission for (n,pd)



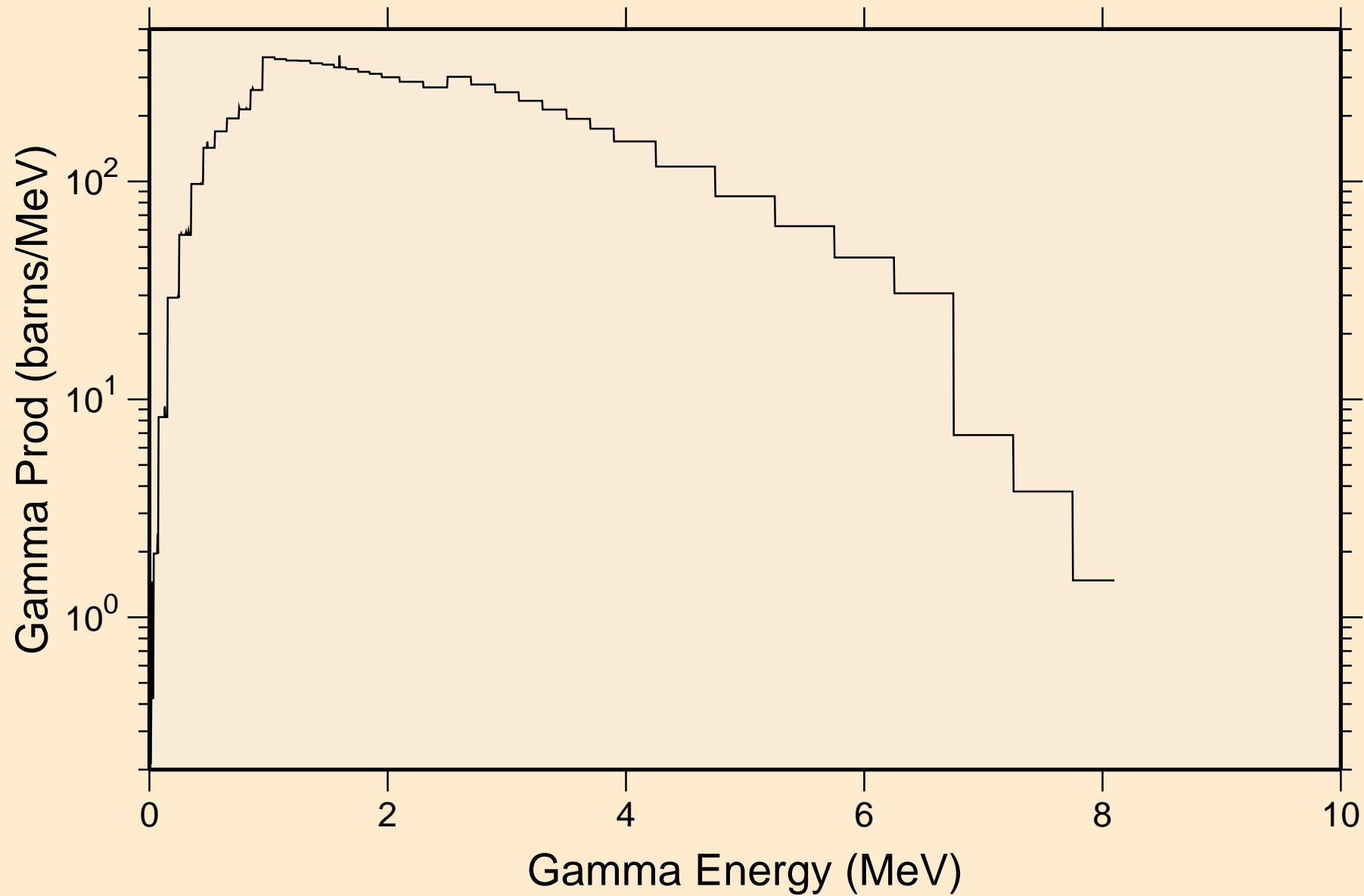
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)

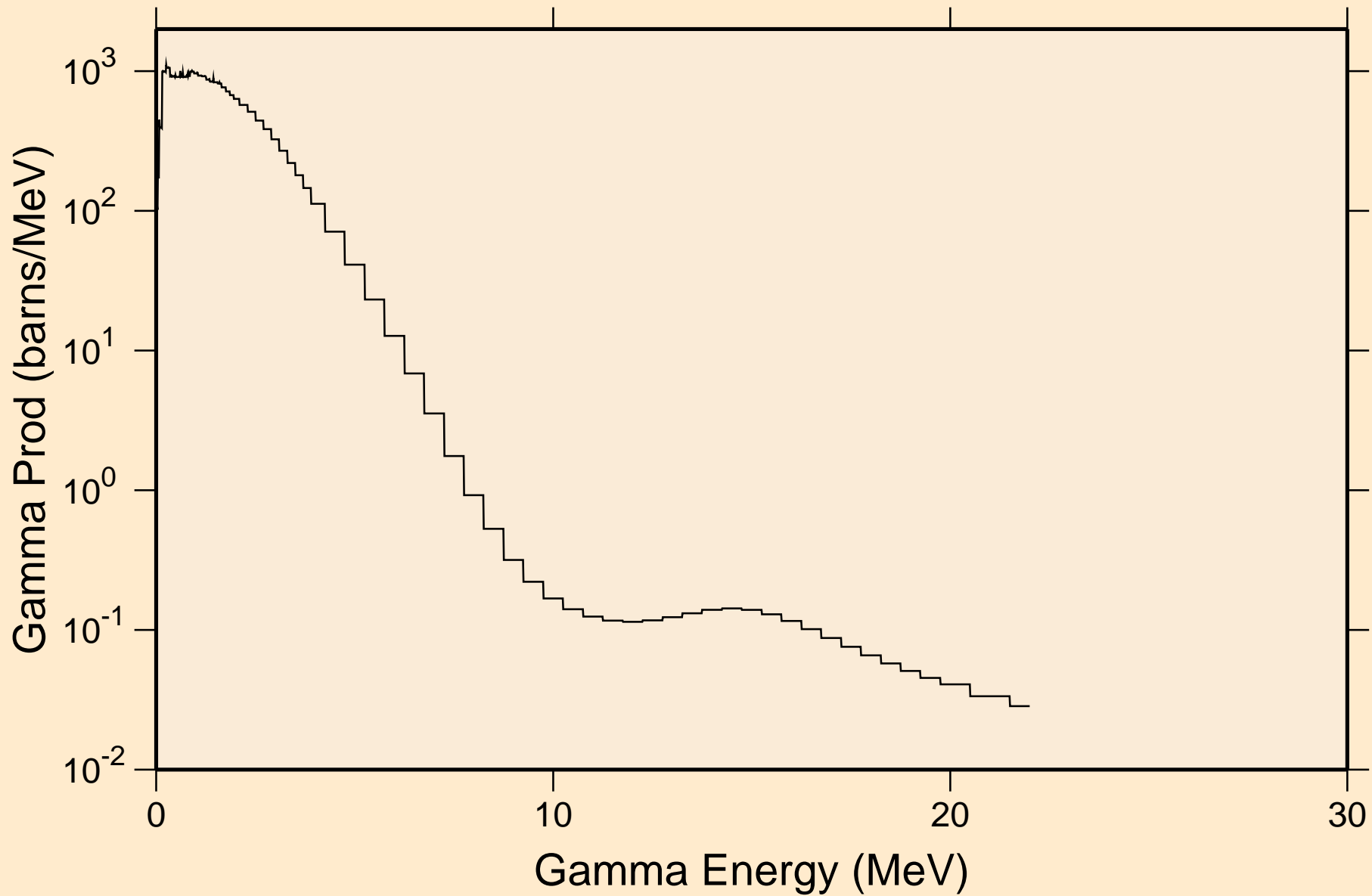


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum



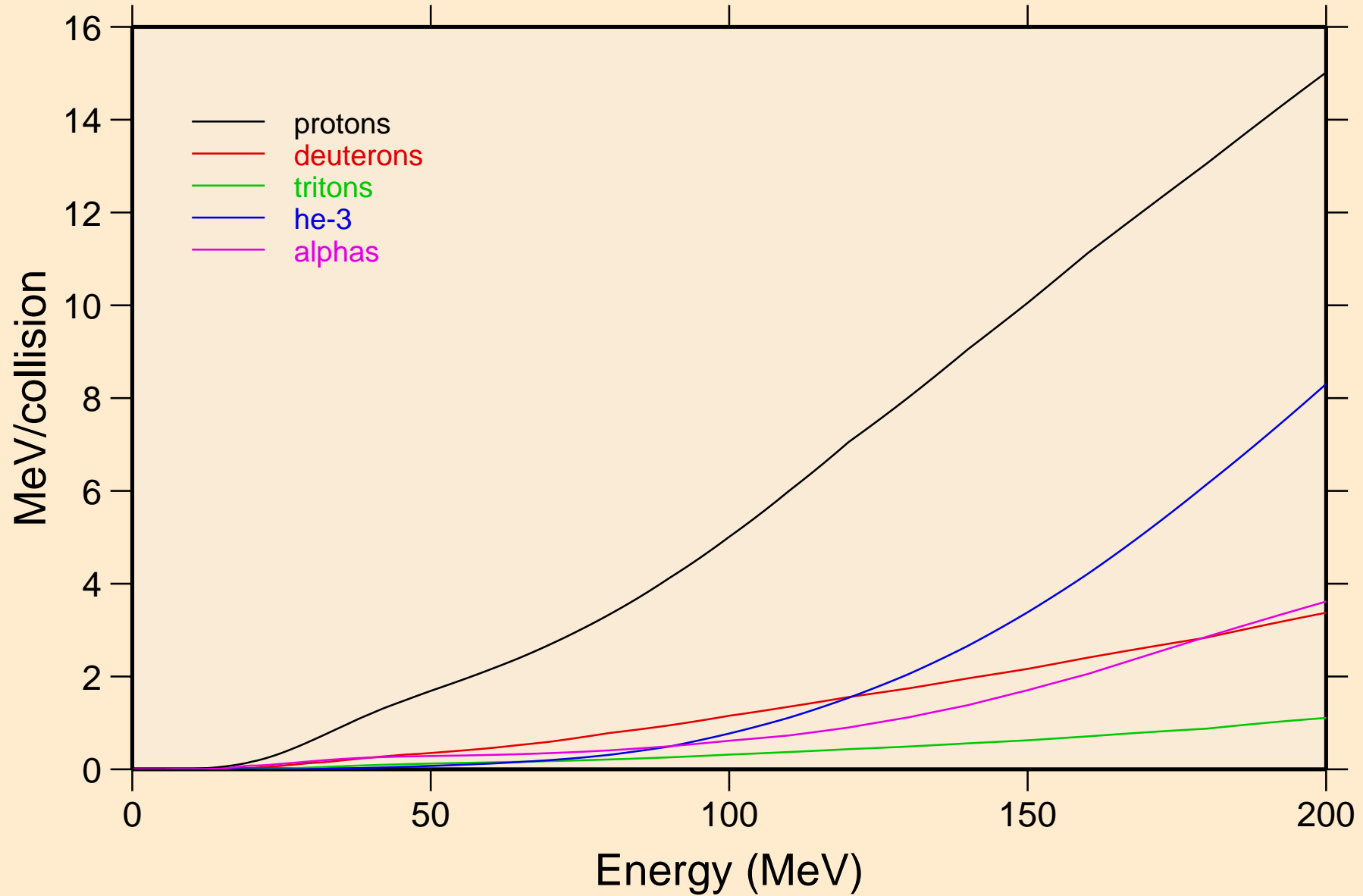


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

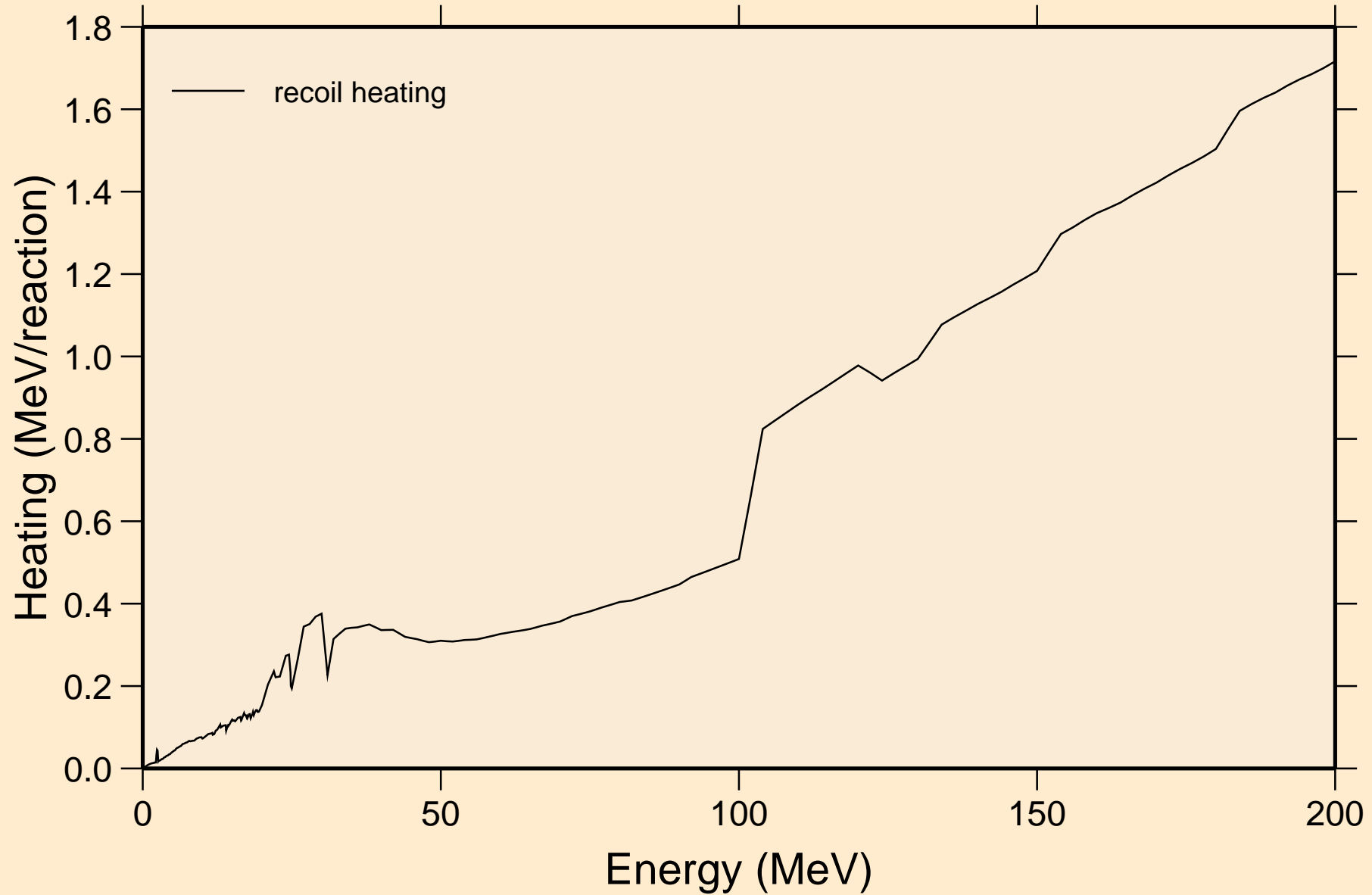


# CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

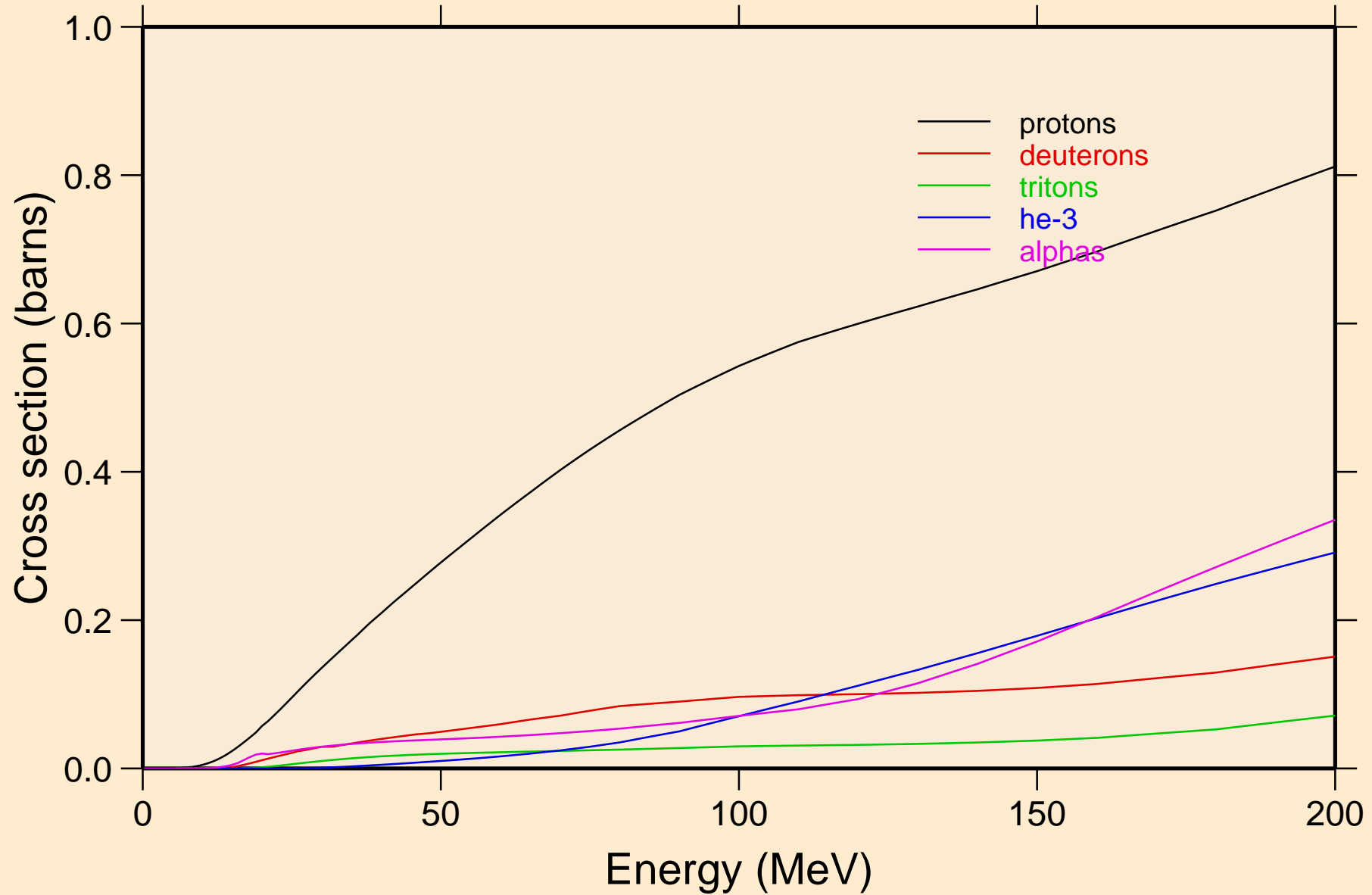
## Particle heating contributions



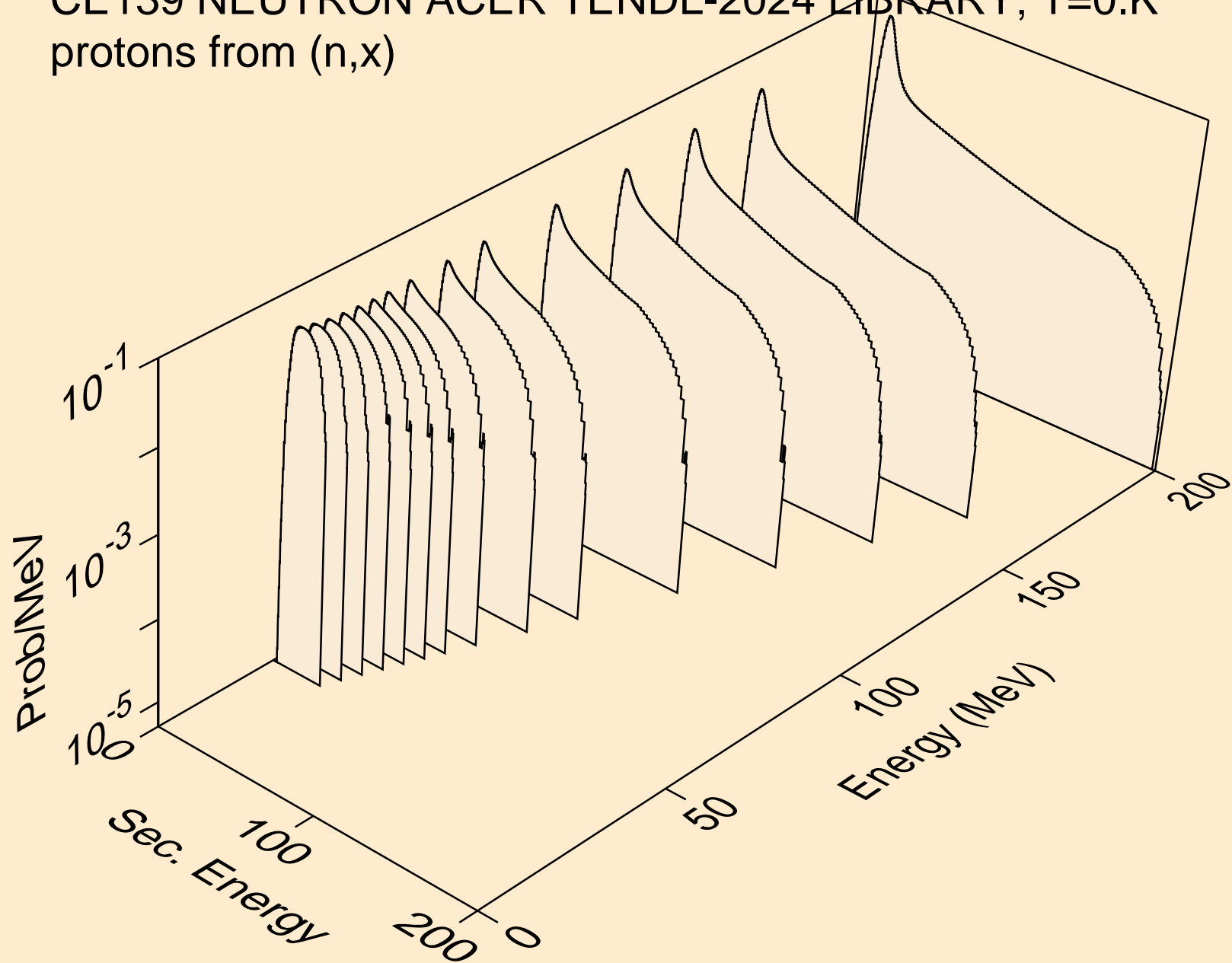
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Recoil Heating



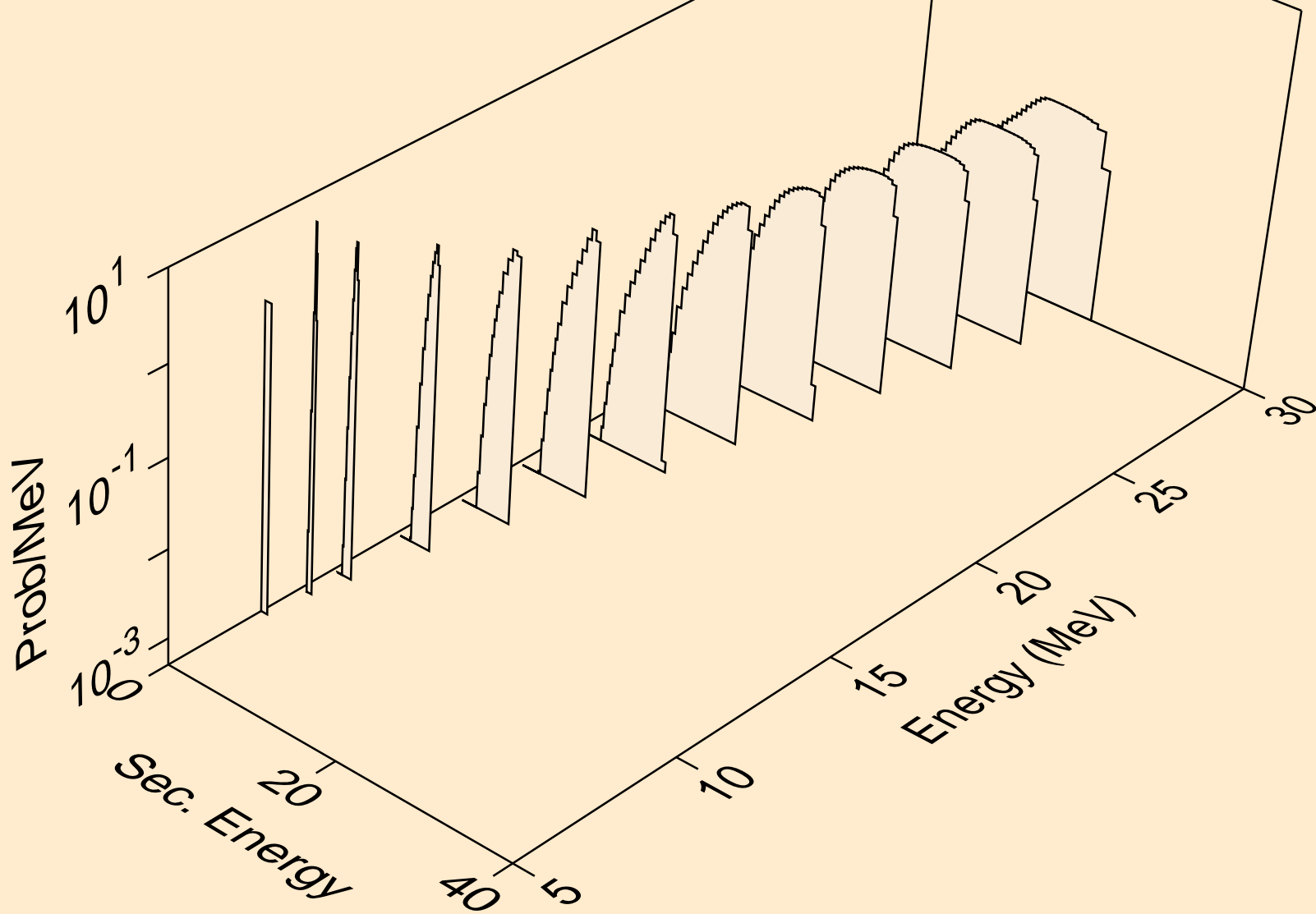
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Particle production cross sections



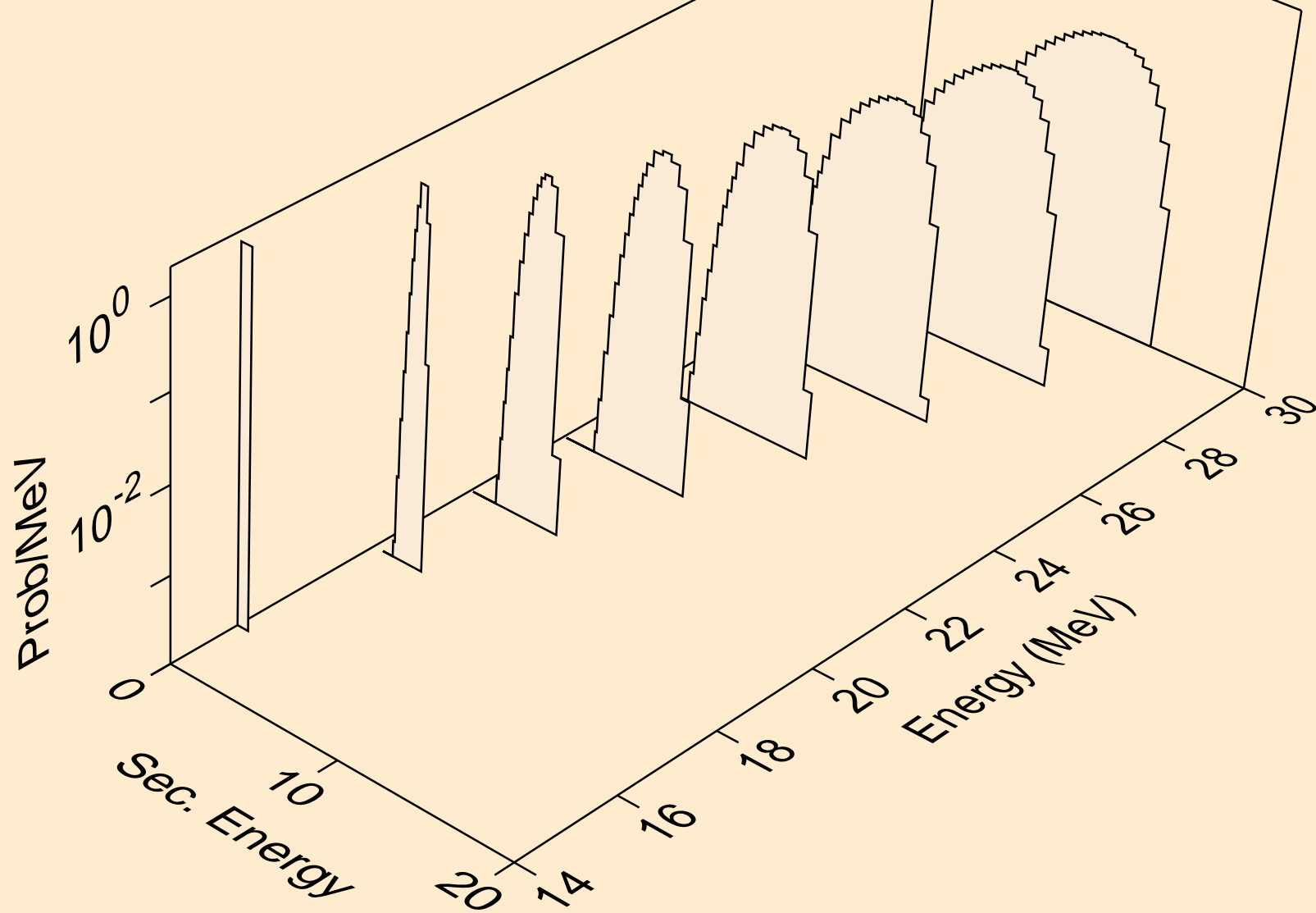
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protons from (n,x)



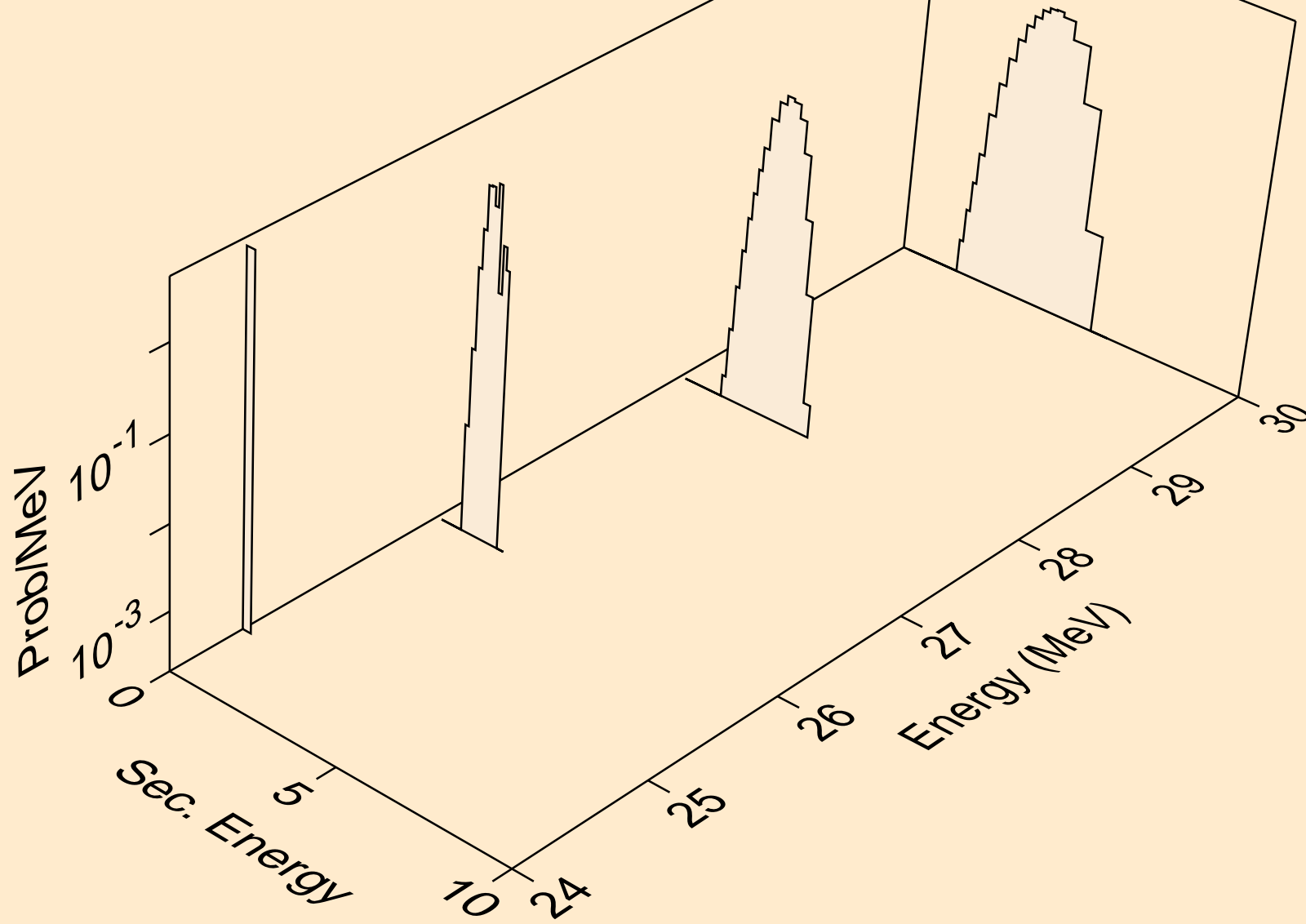
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protons from (n,n\*)p



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)

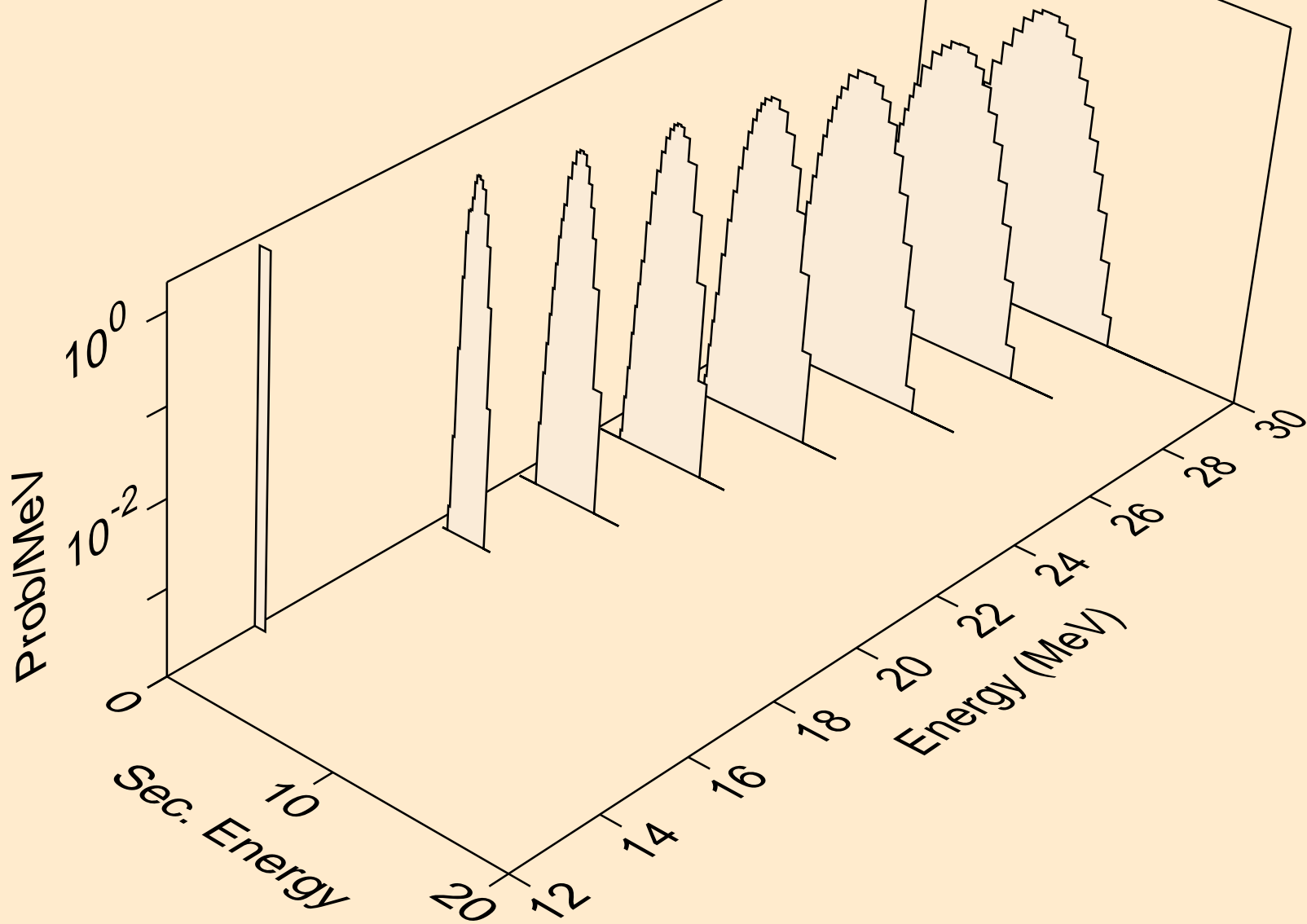


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protons from (n,3np)

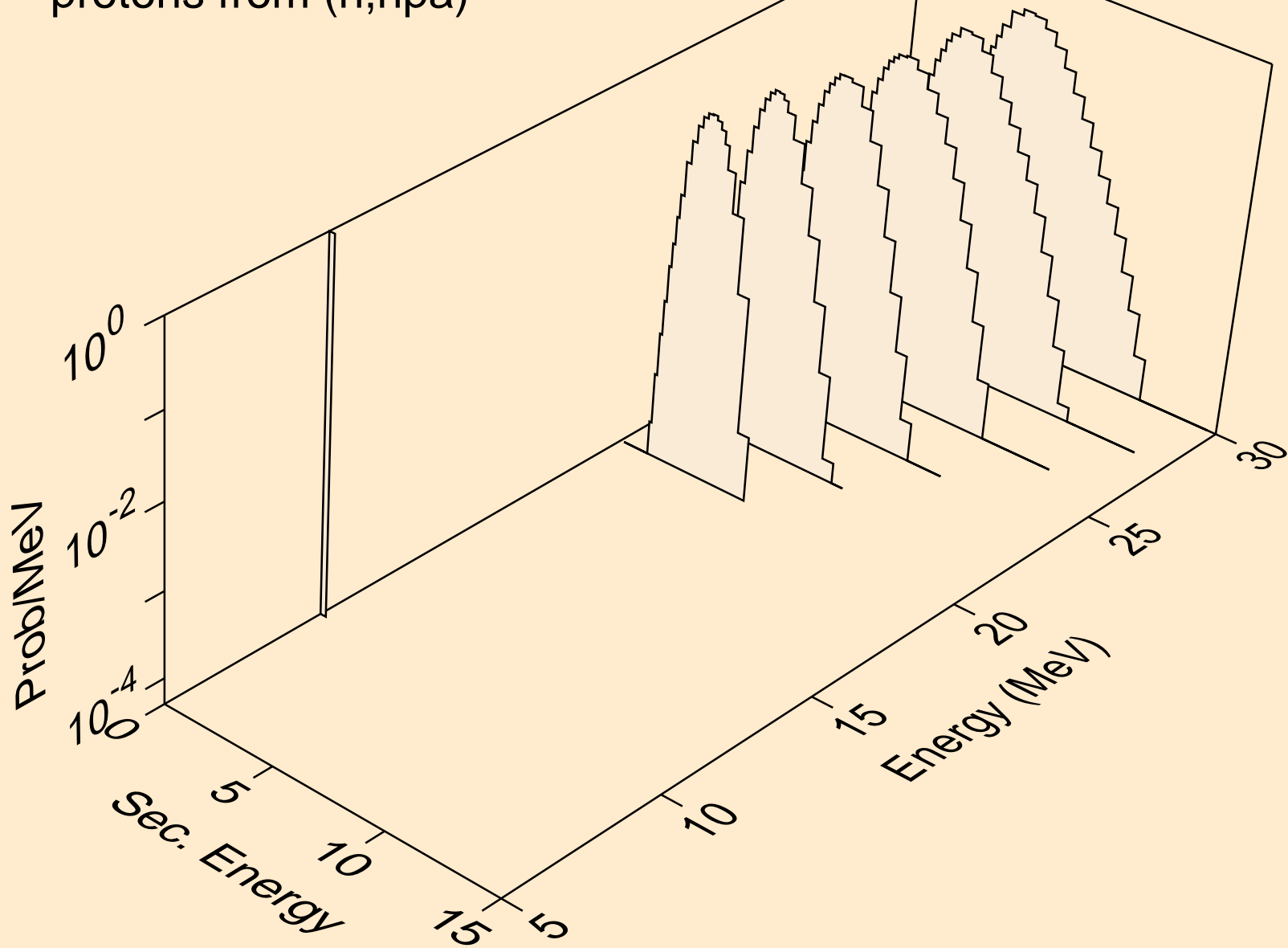




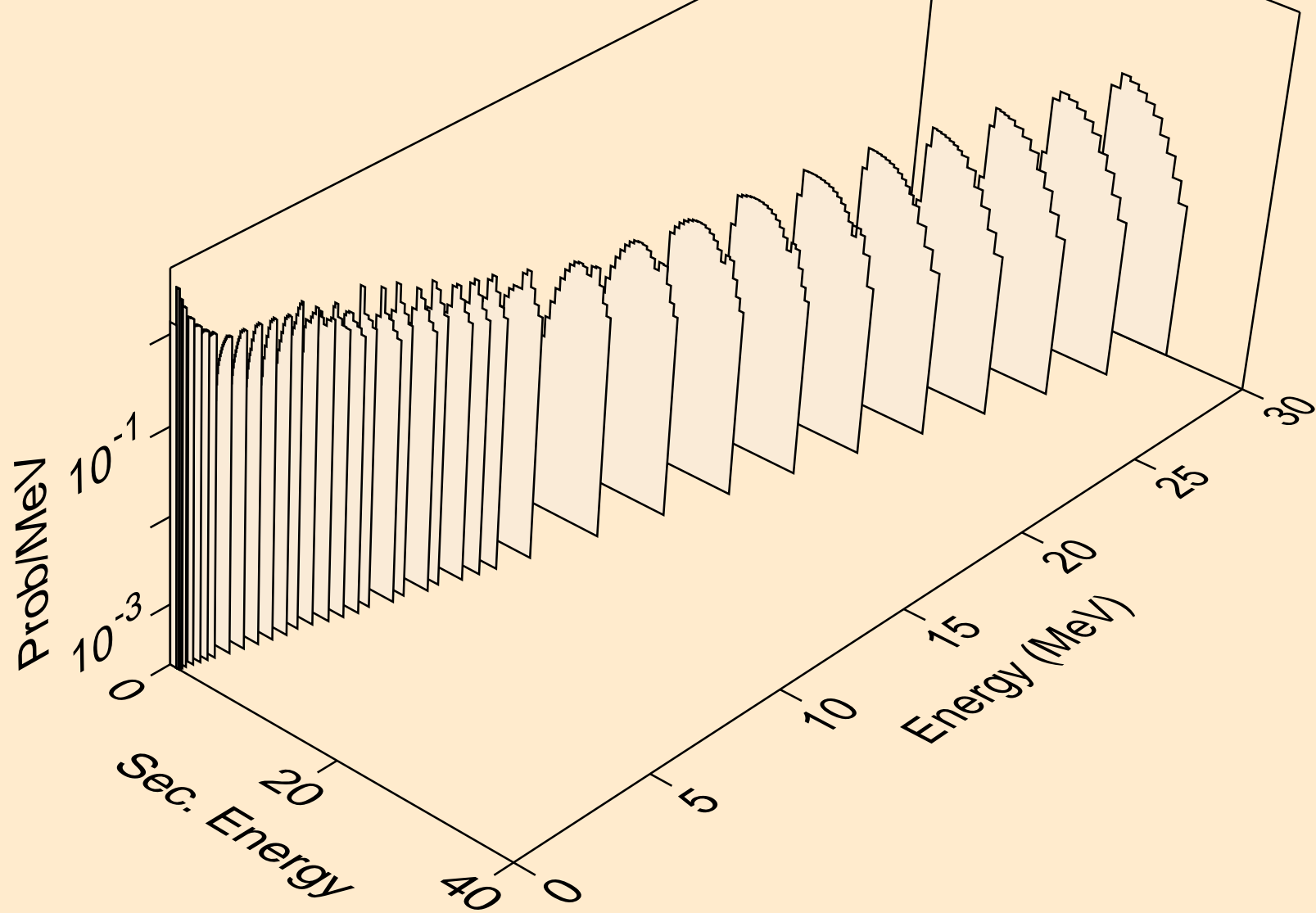
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protons from (n,n2p)



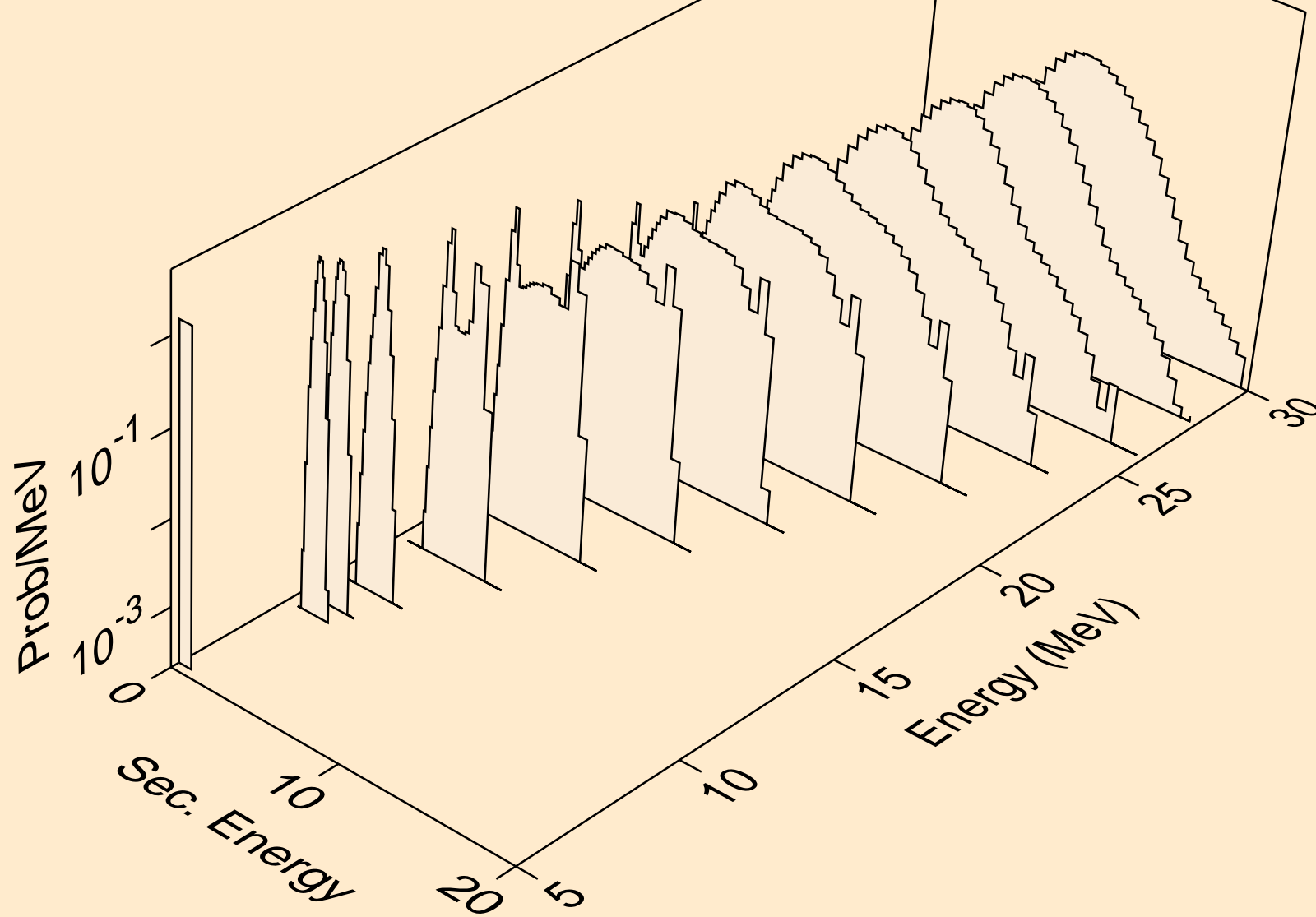
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protons from (n,npa)



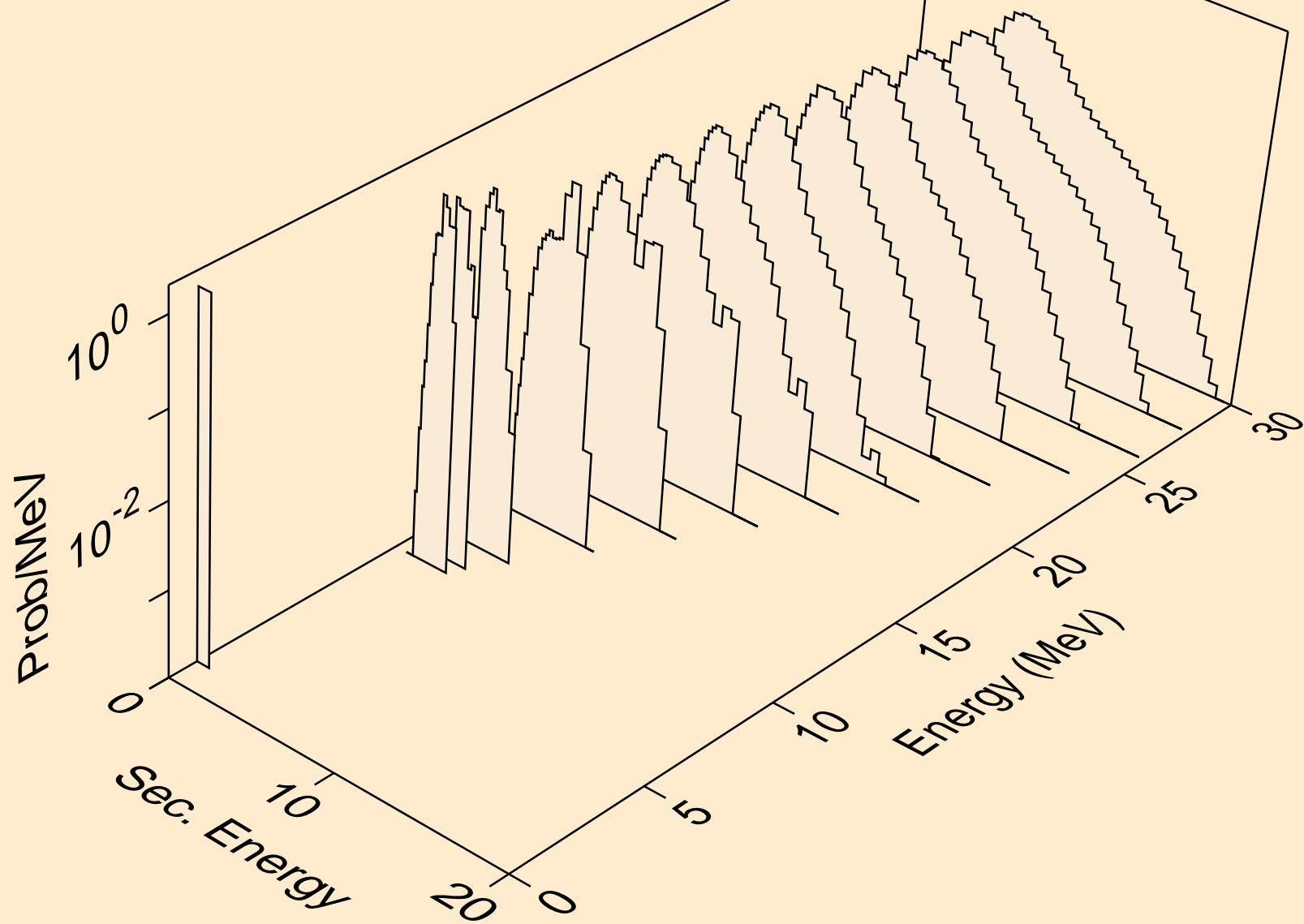
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protons from (n,p)



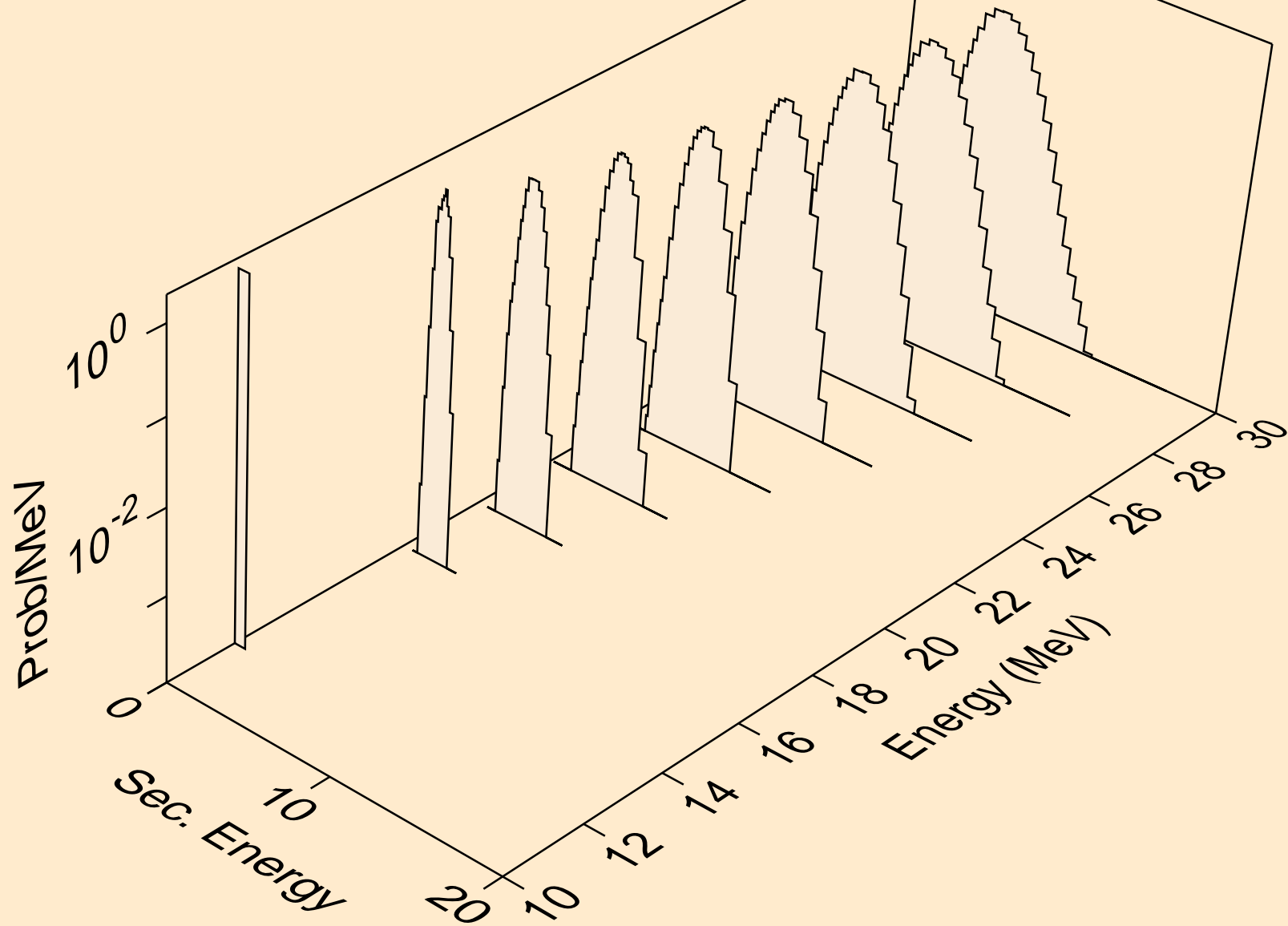
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protons from (n,2p)



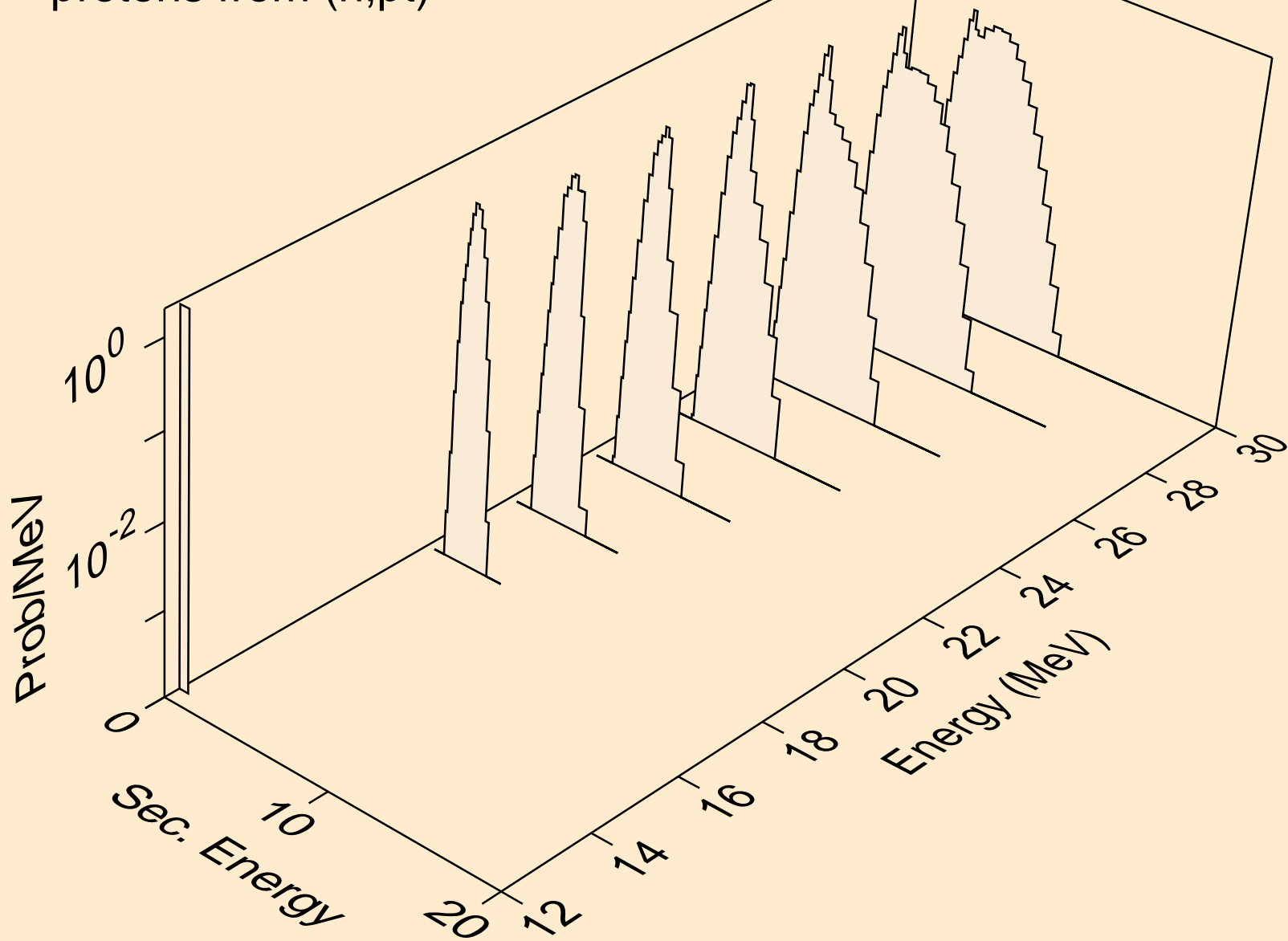
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protons from (n,p)



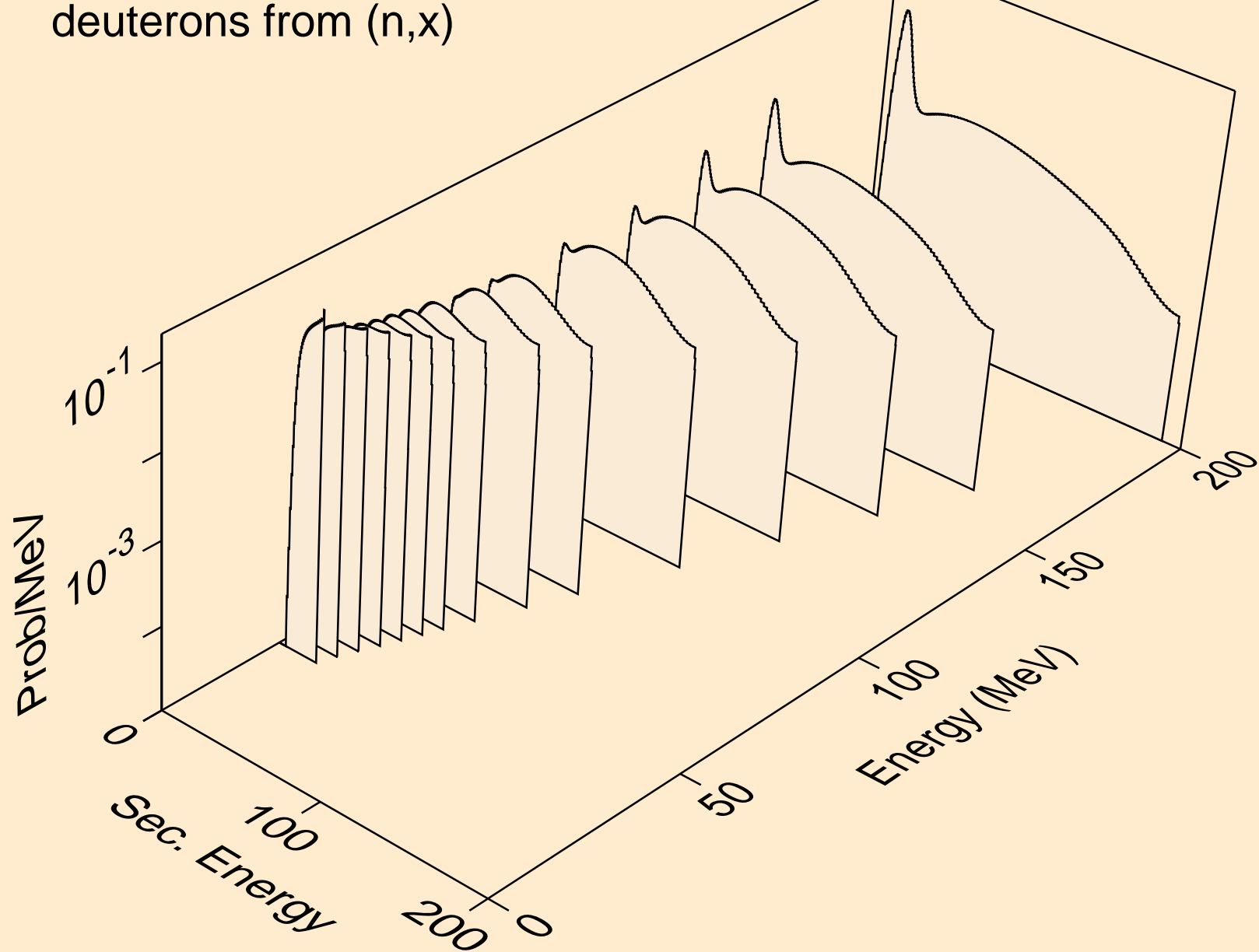
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protons from (n,pd)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,pt)

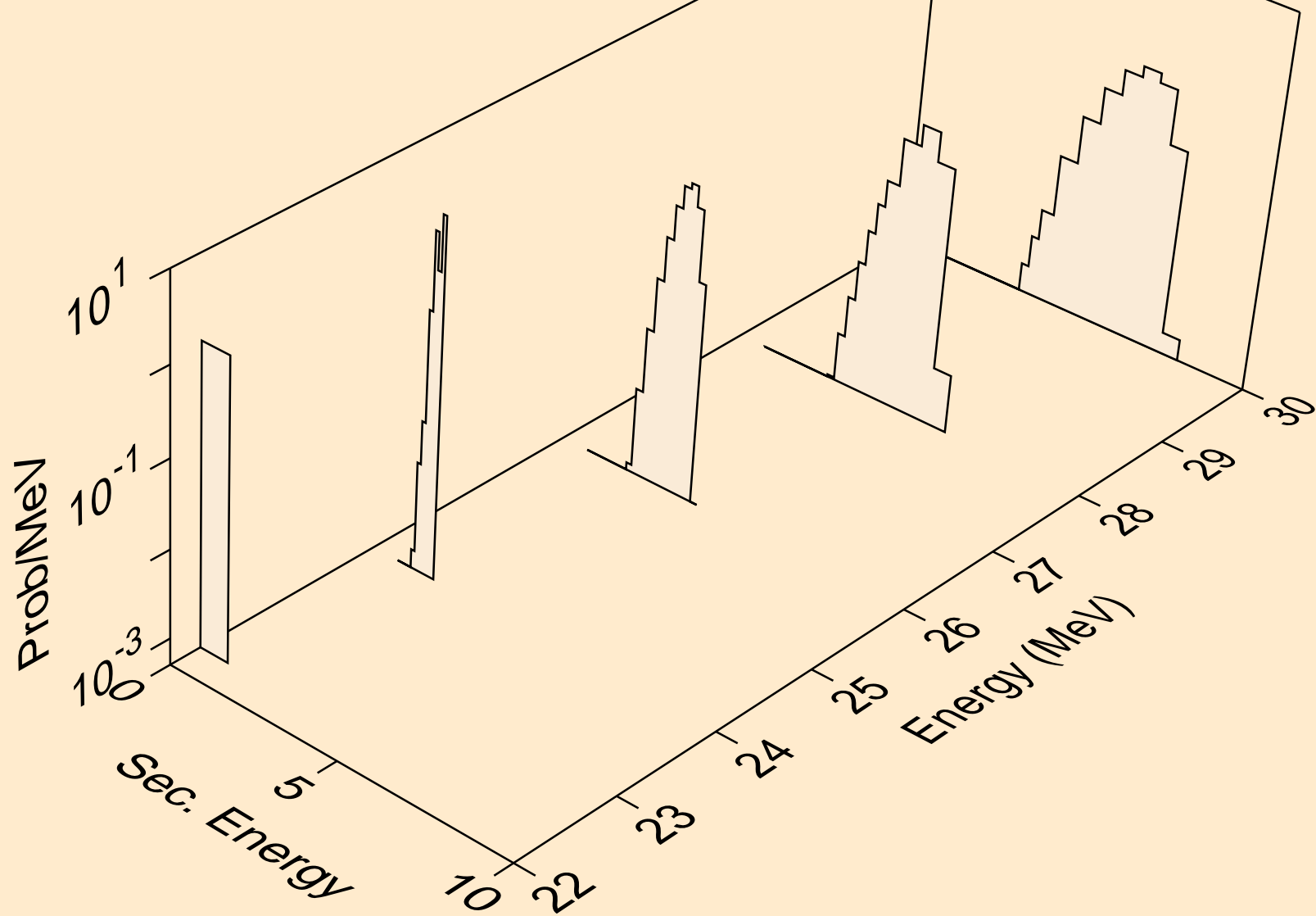


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deuterons from (n,x)

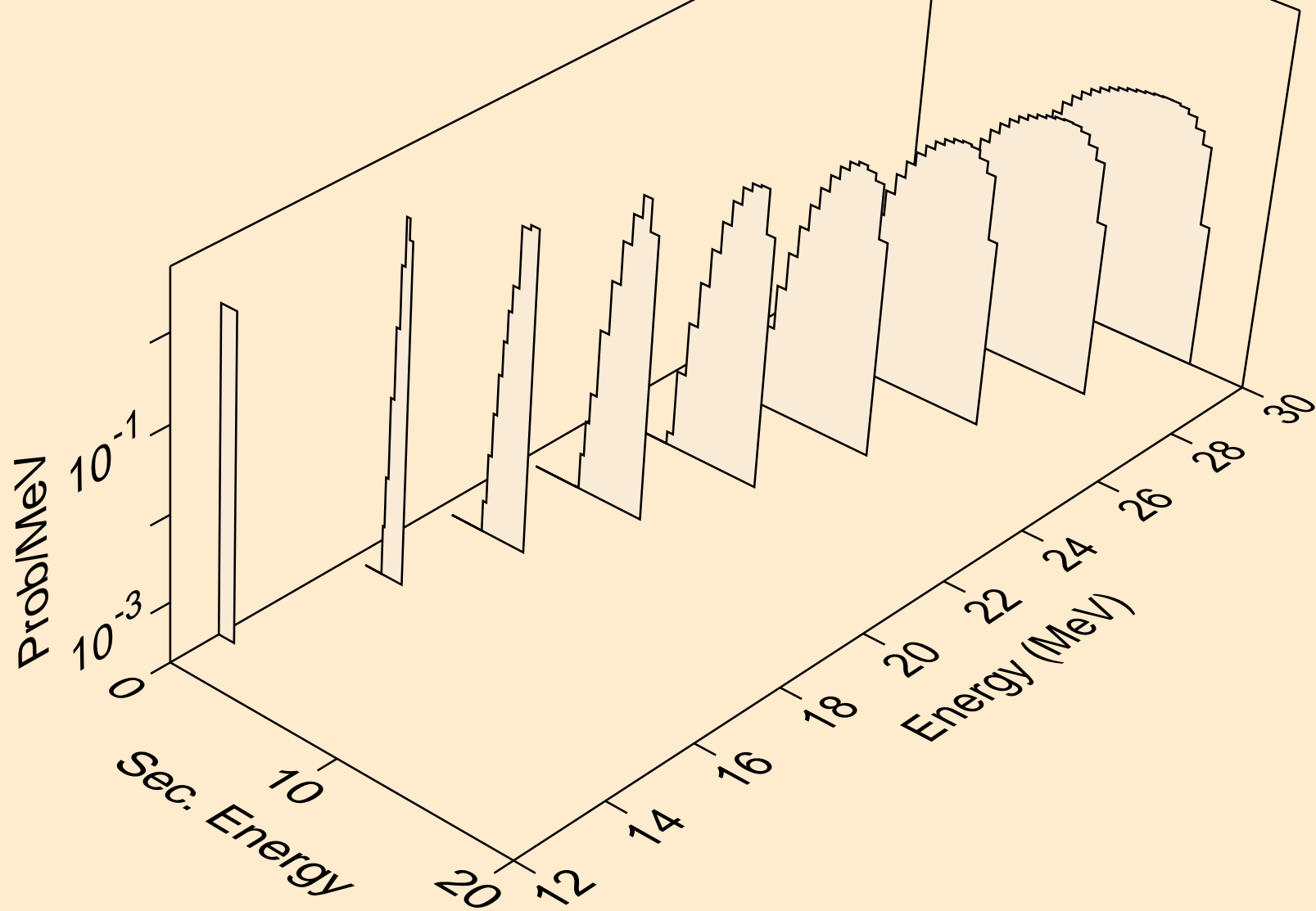




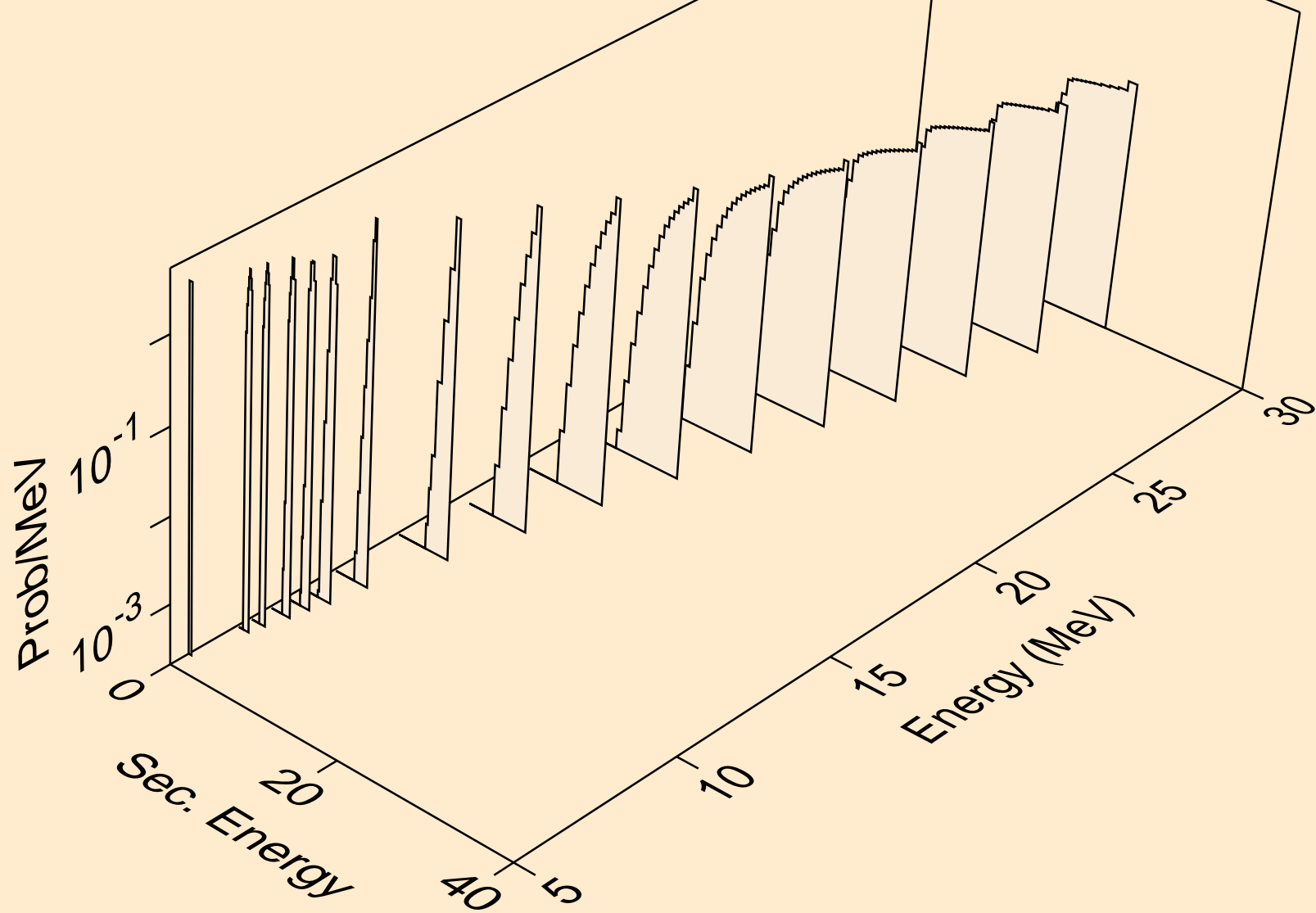
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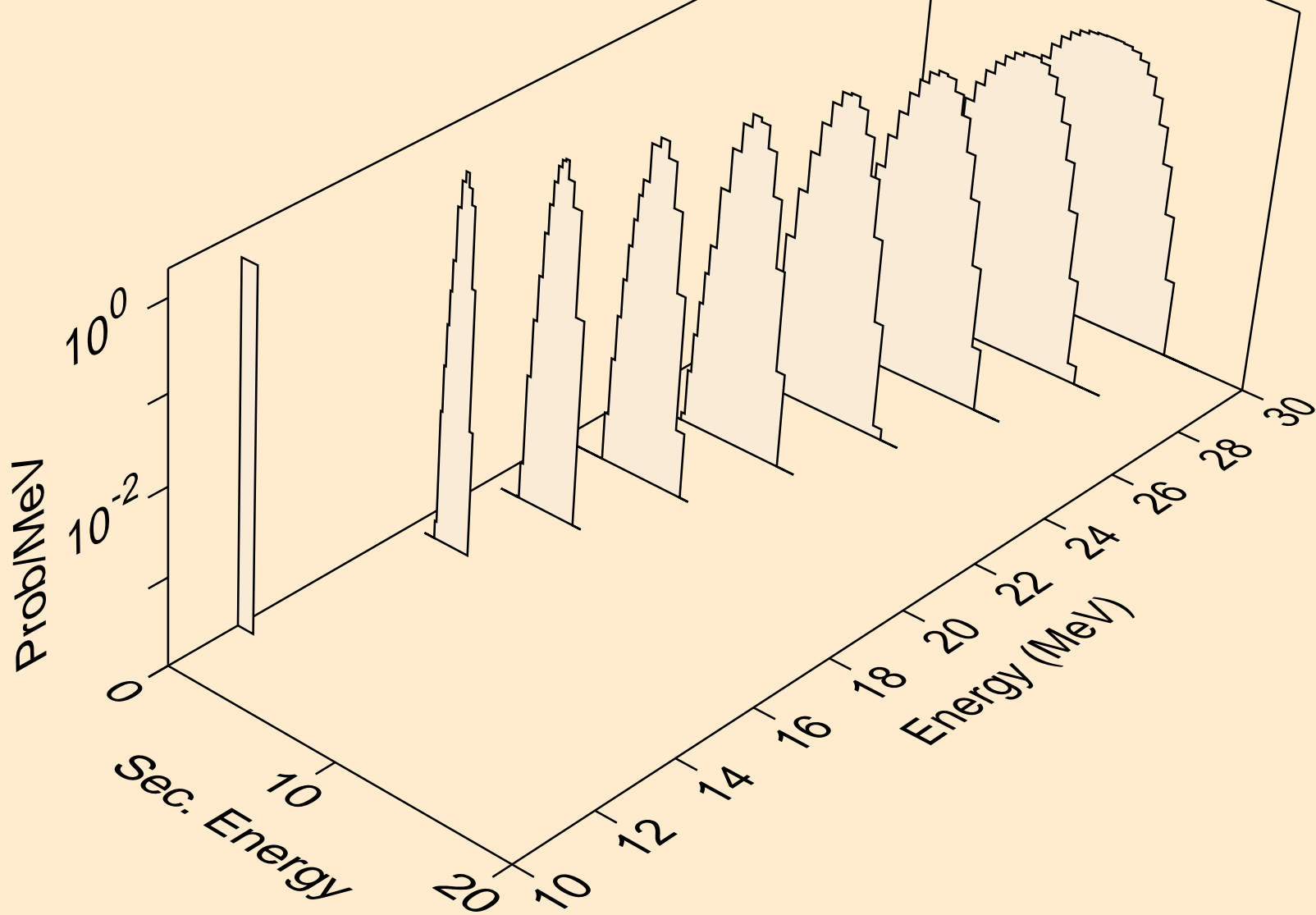
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deuterons from (n,n\*)d



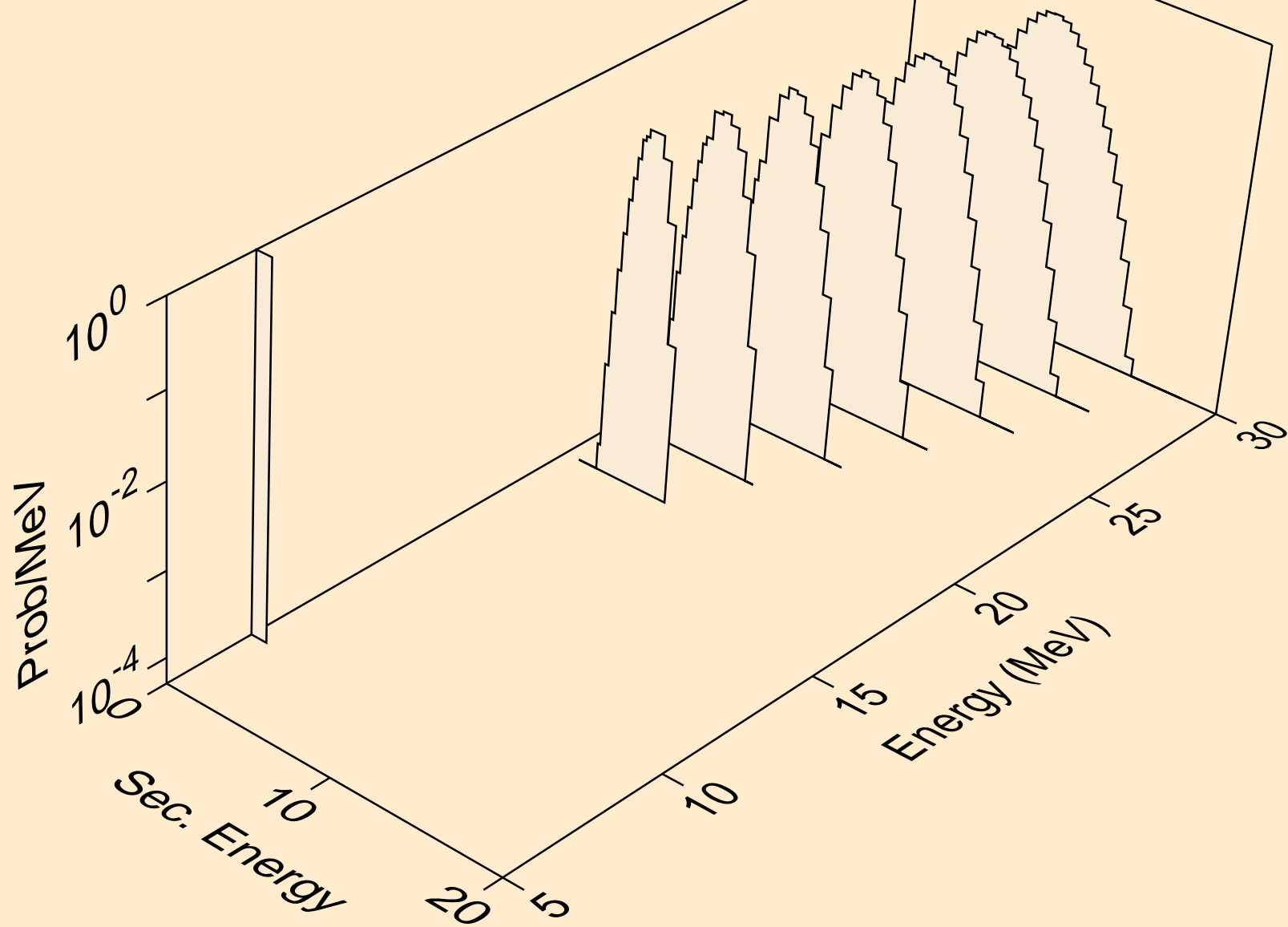
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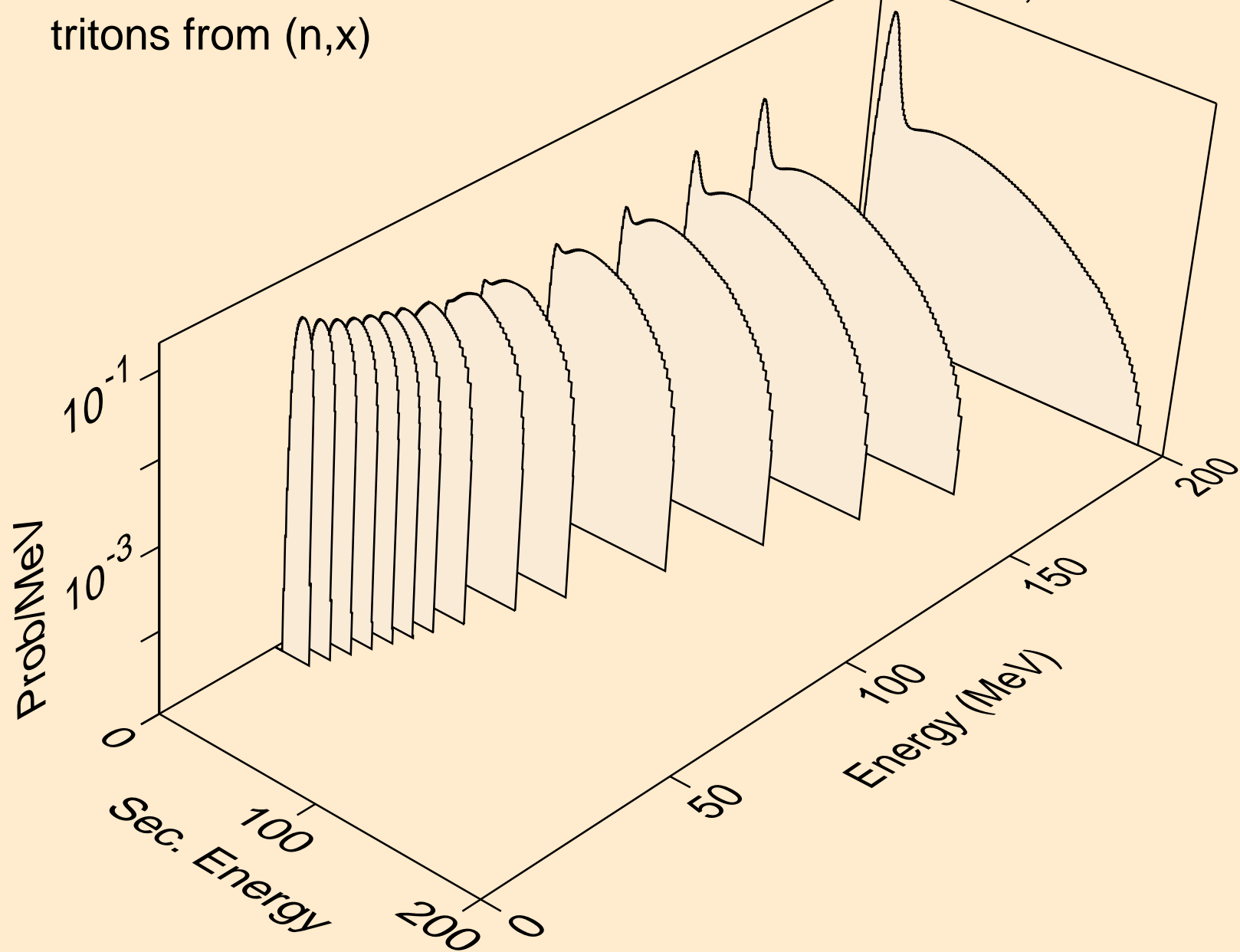
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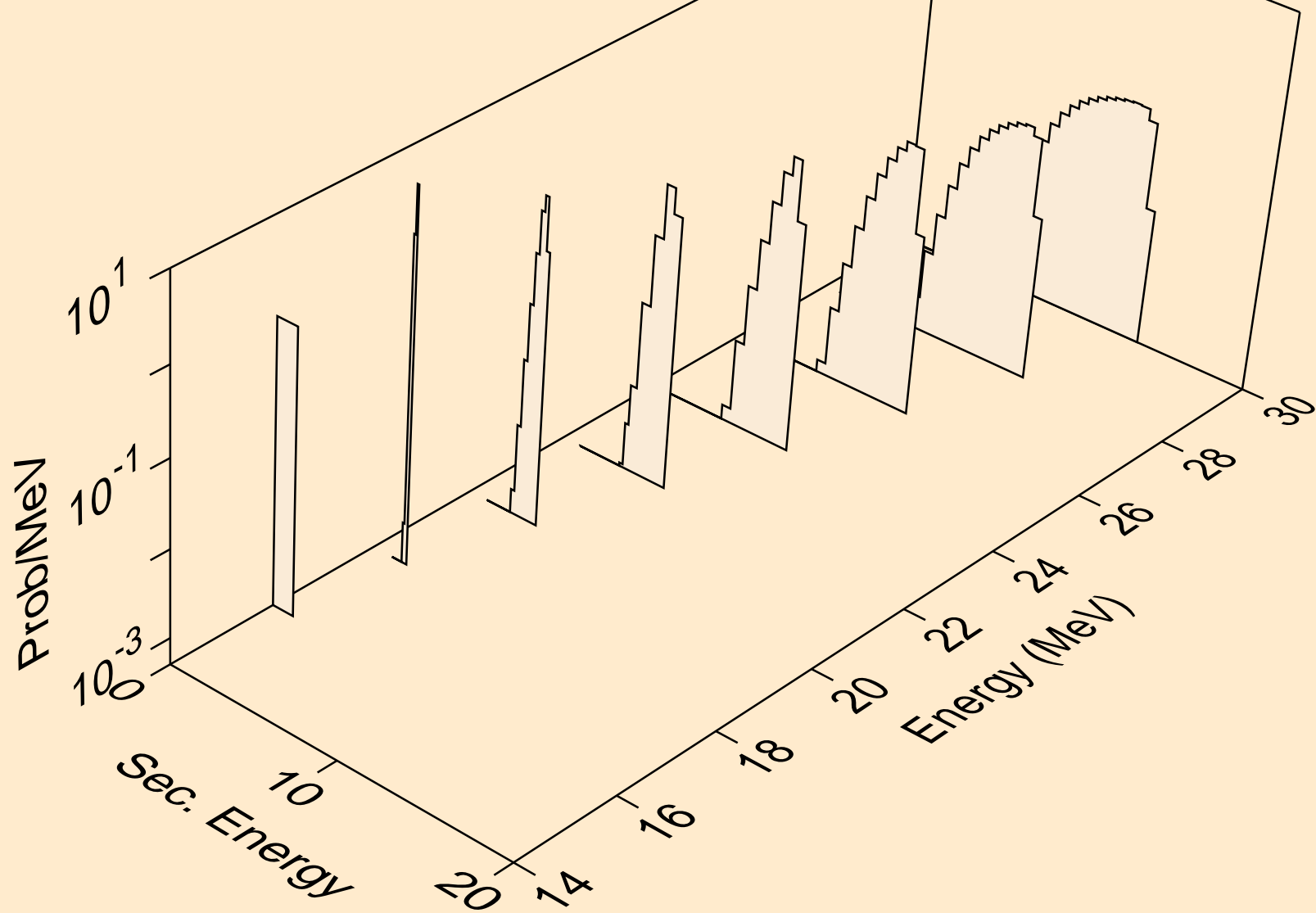
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deuterons from (n,da)



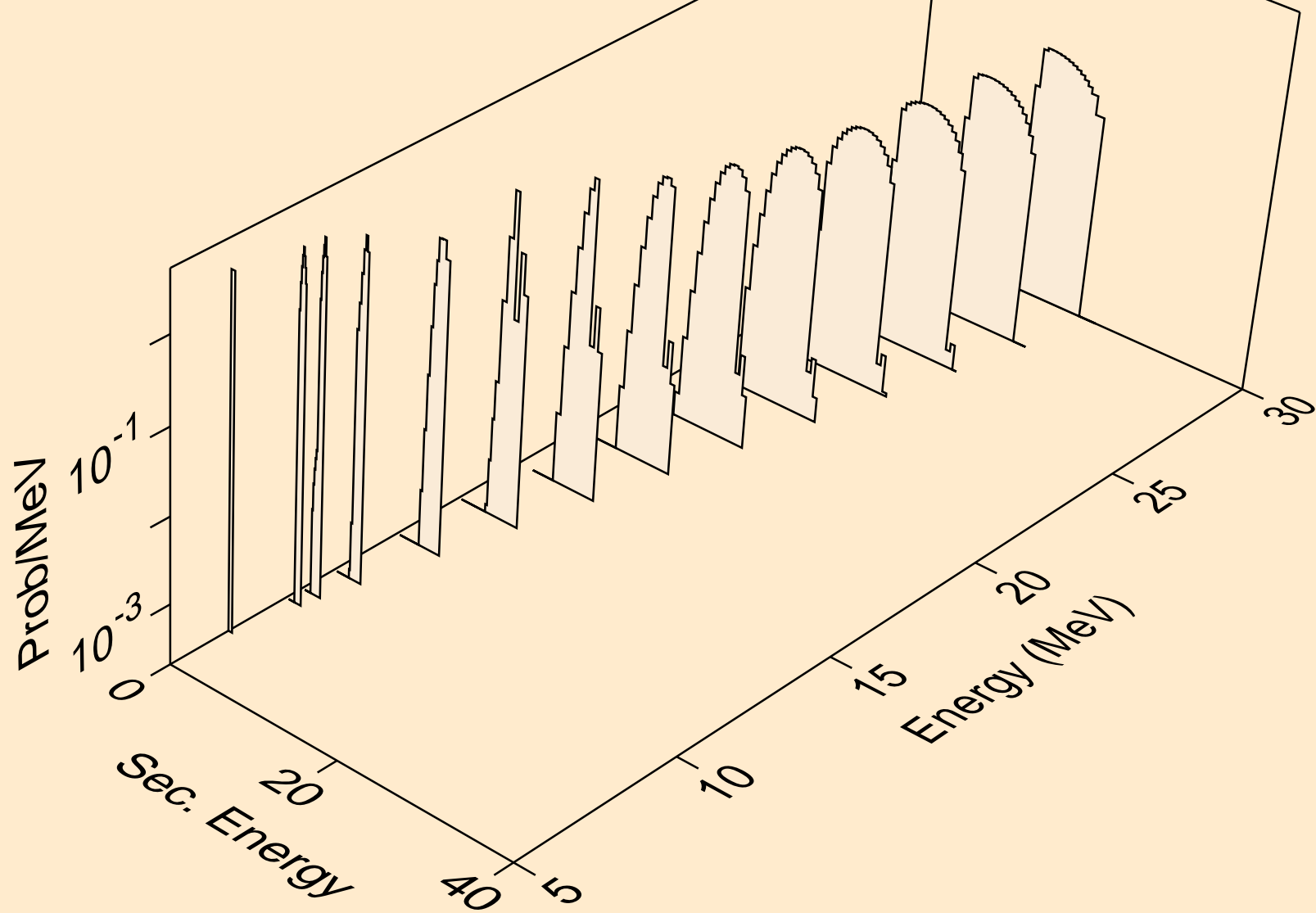
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,x)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t

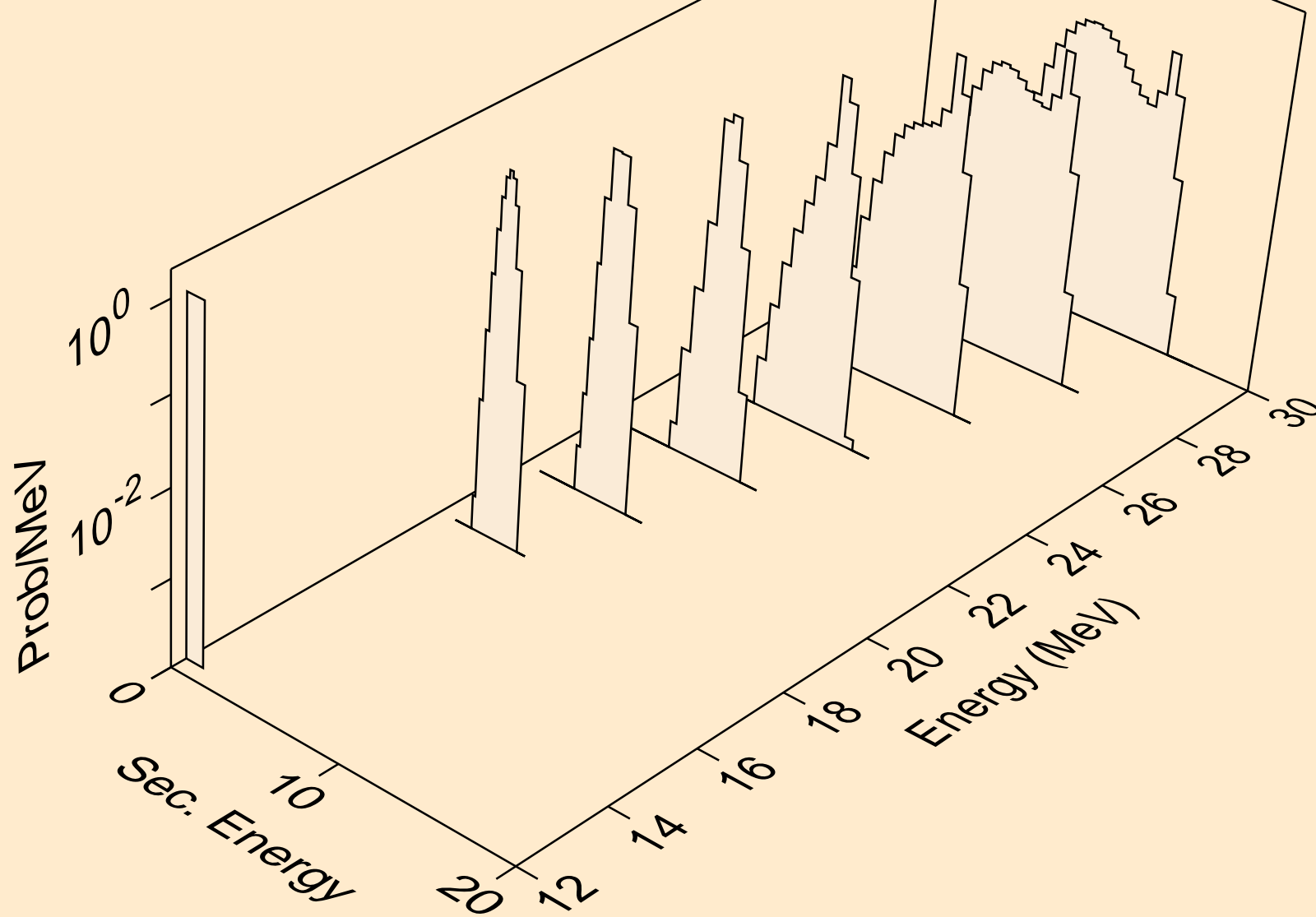


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,t)

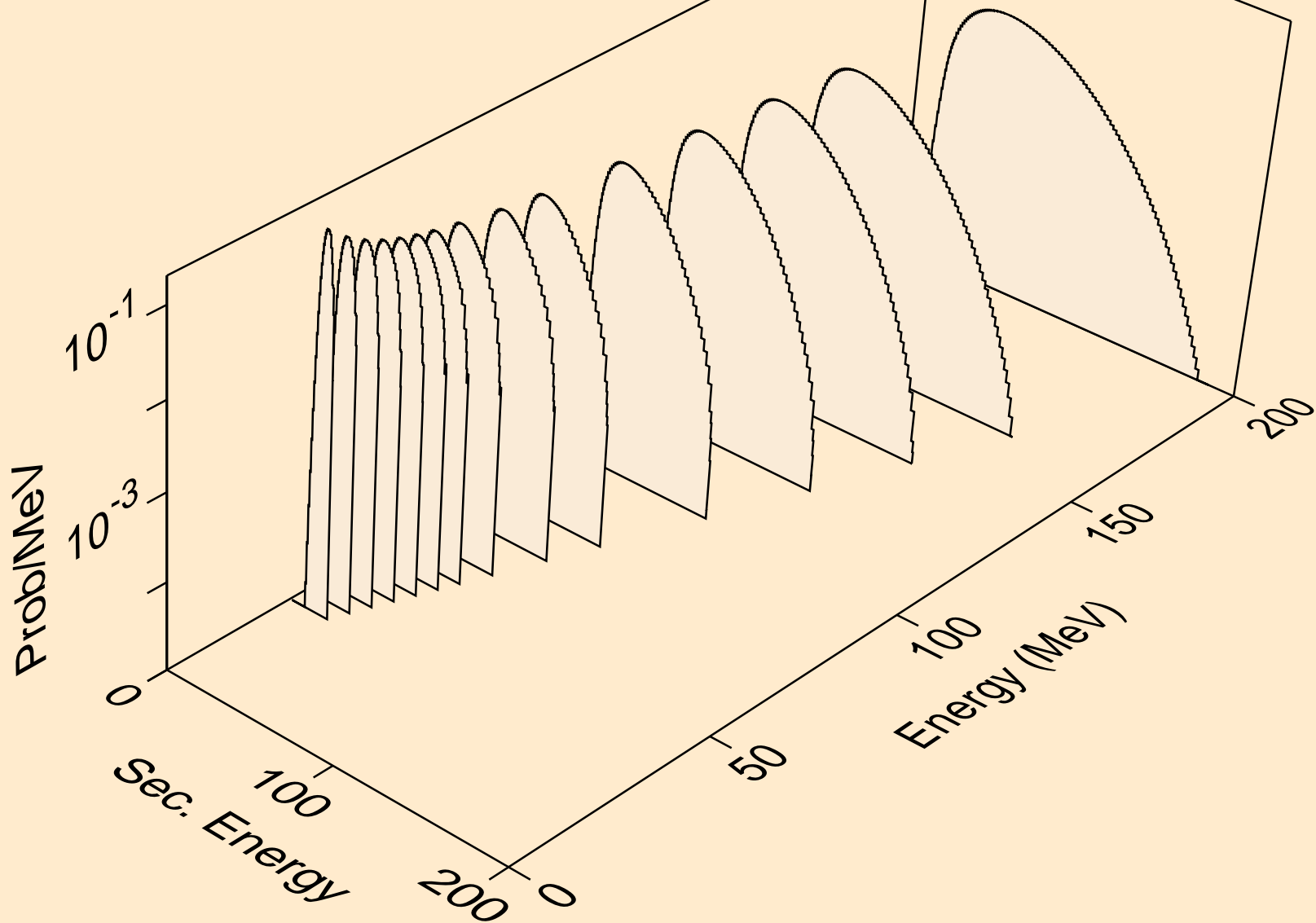




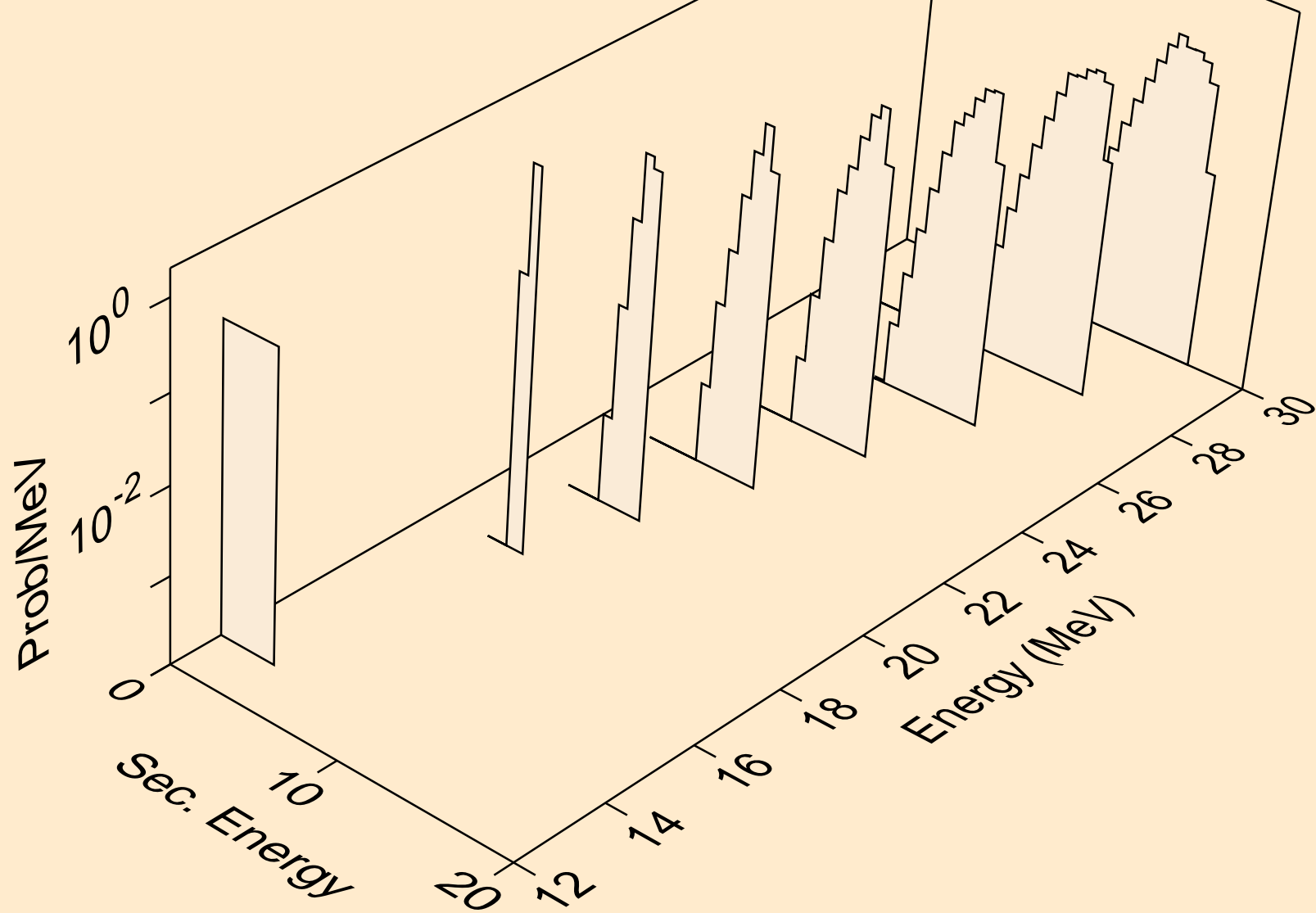
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tritons from (n,pt)



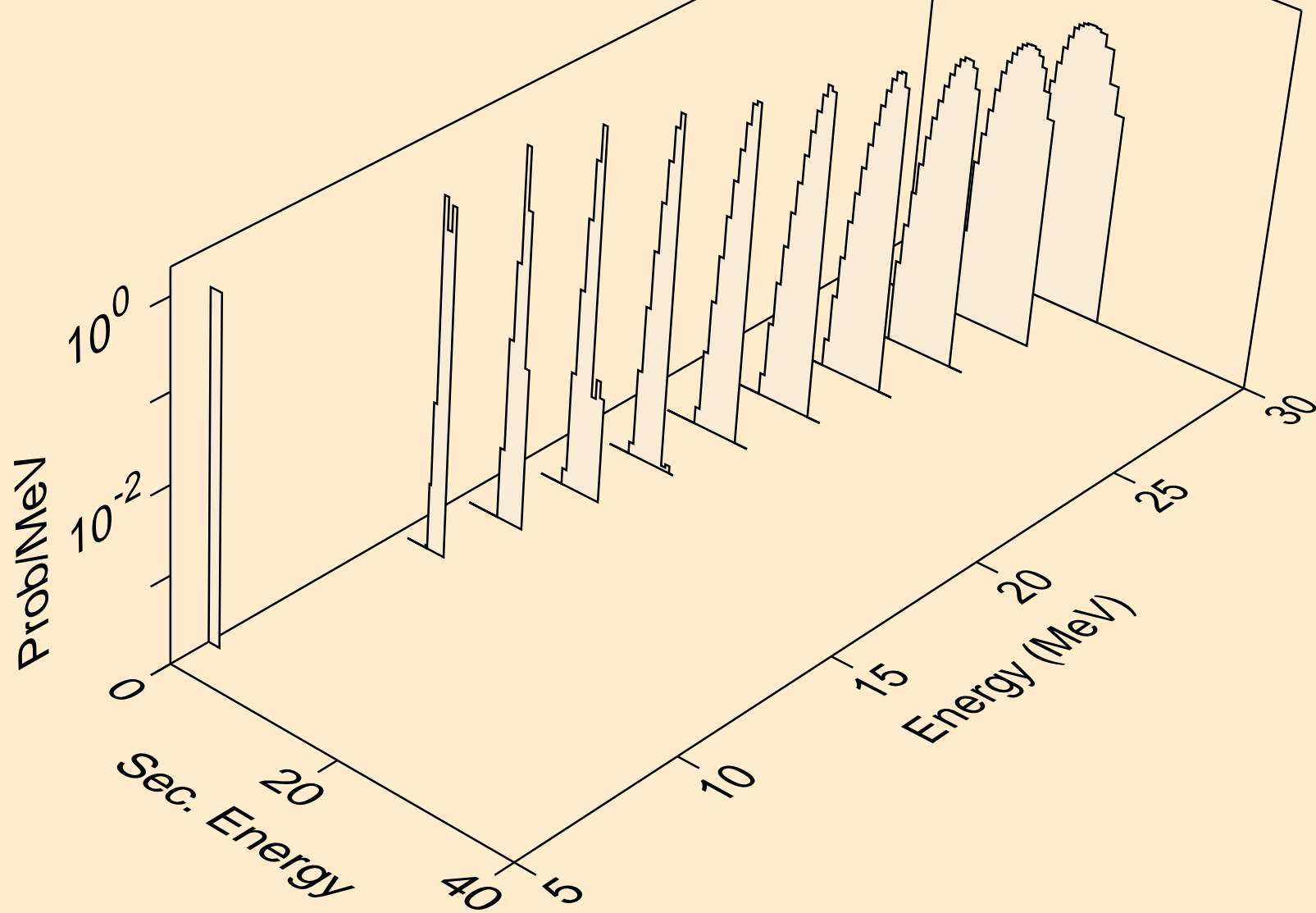
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)



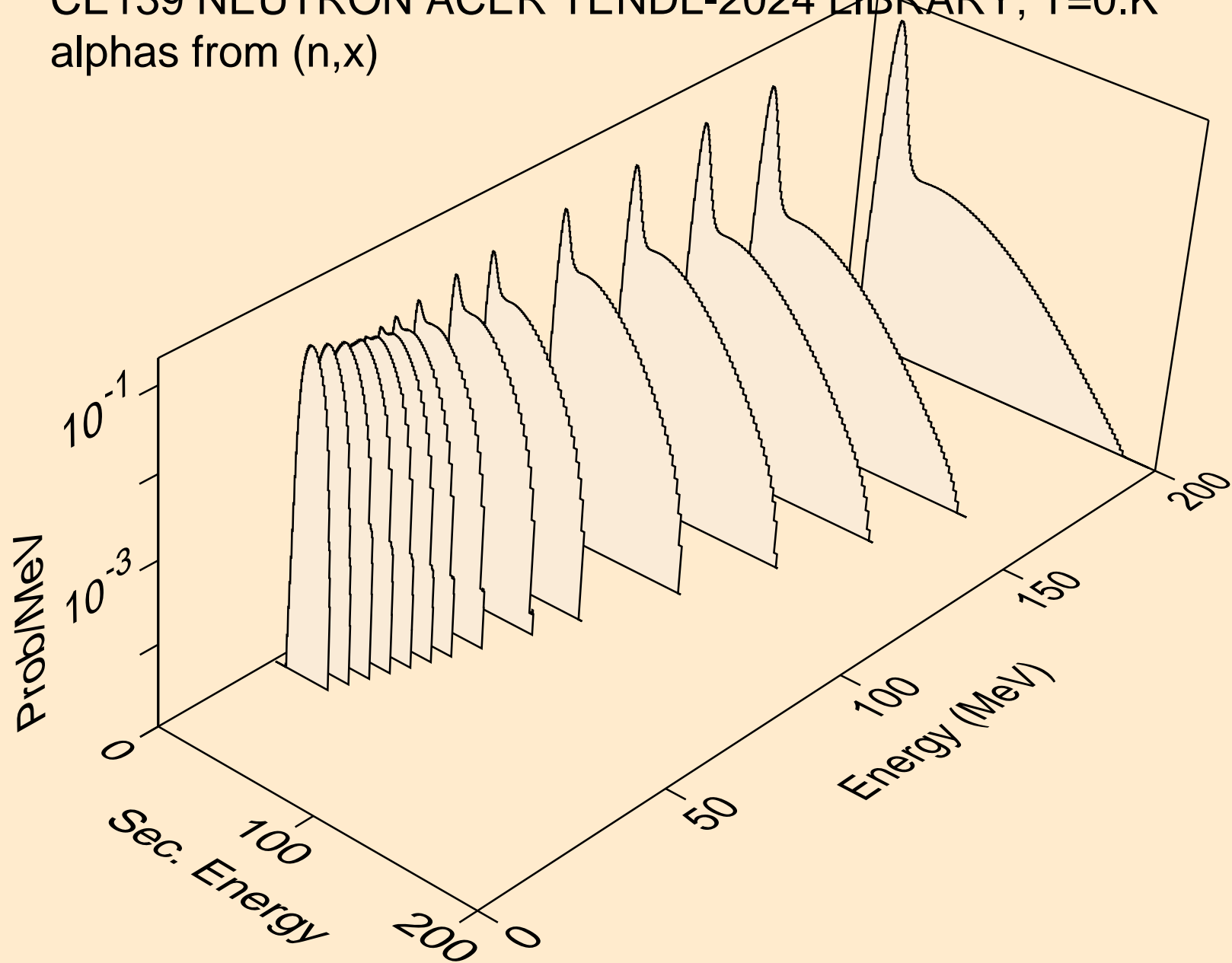
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he3s from (n,n\*)he3



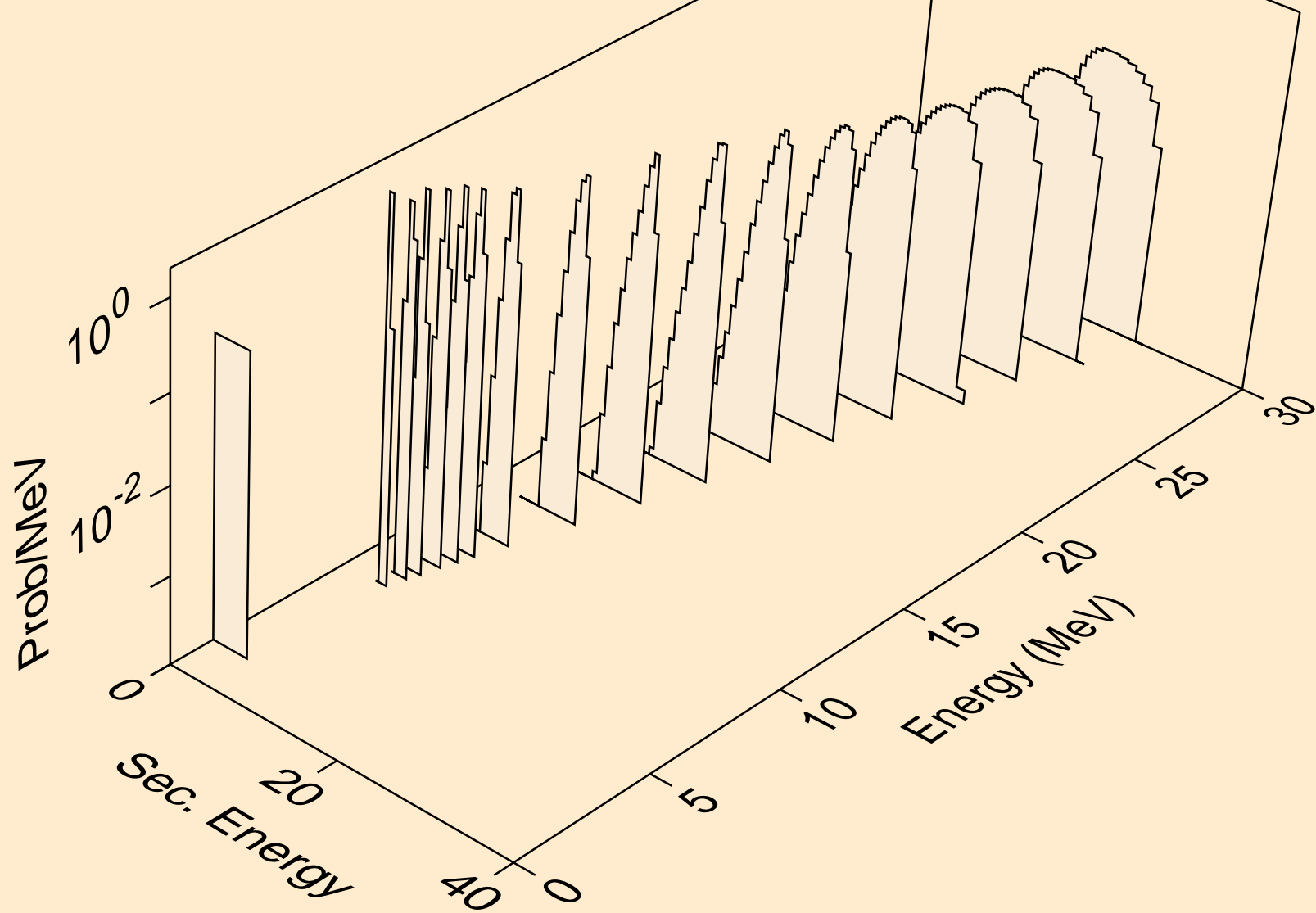
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he3s from (n,he3)



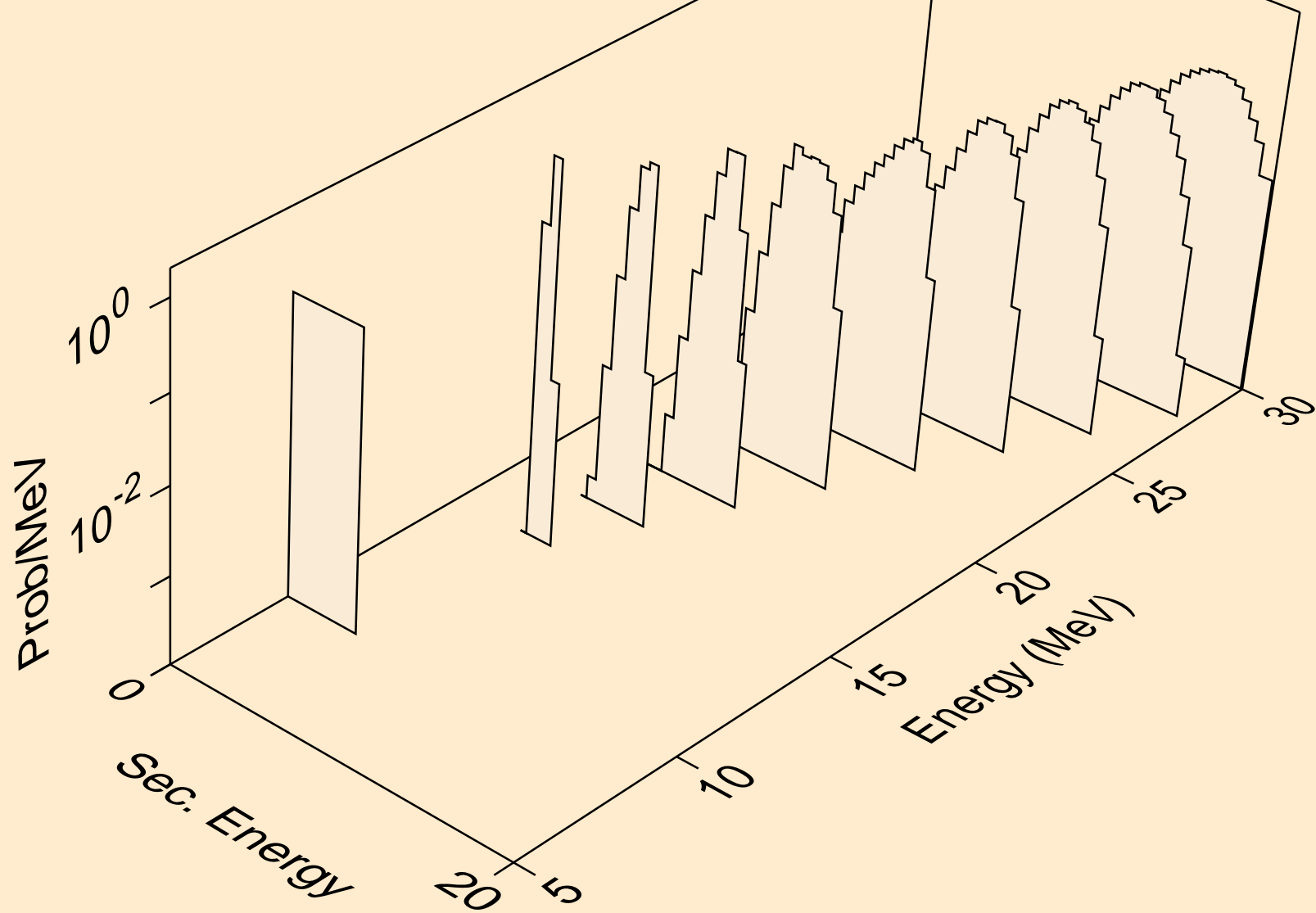
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



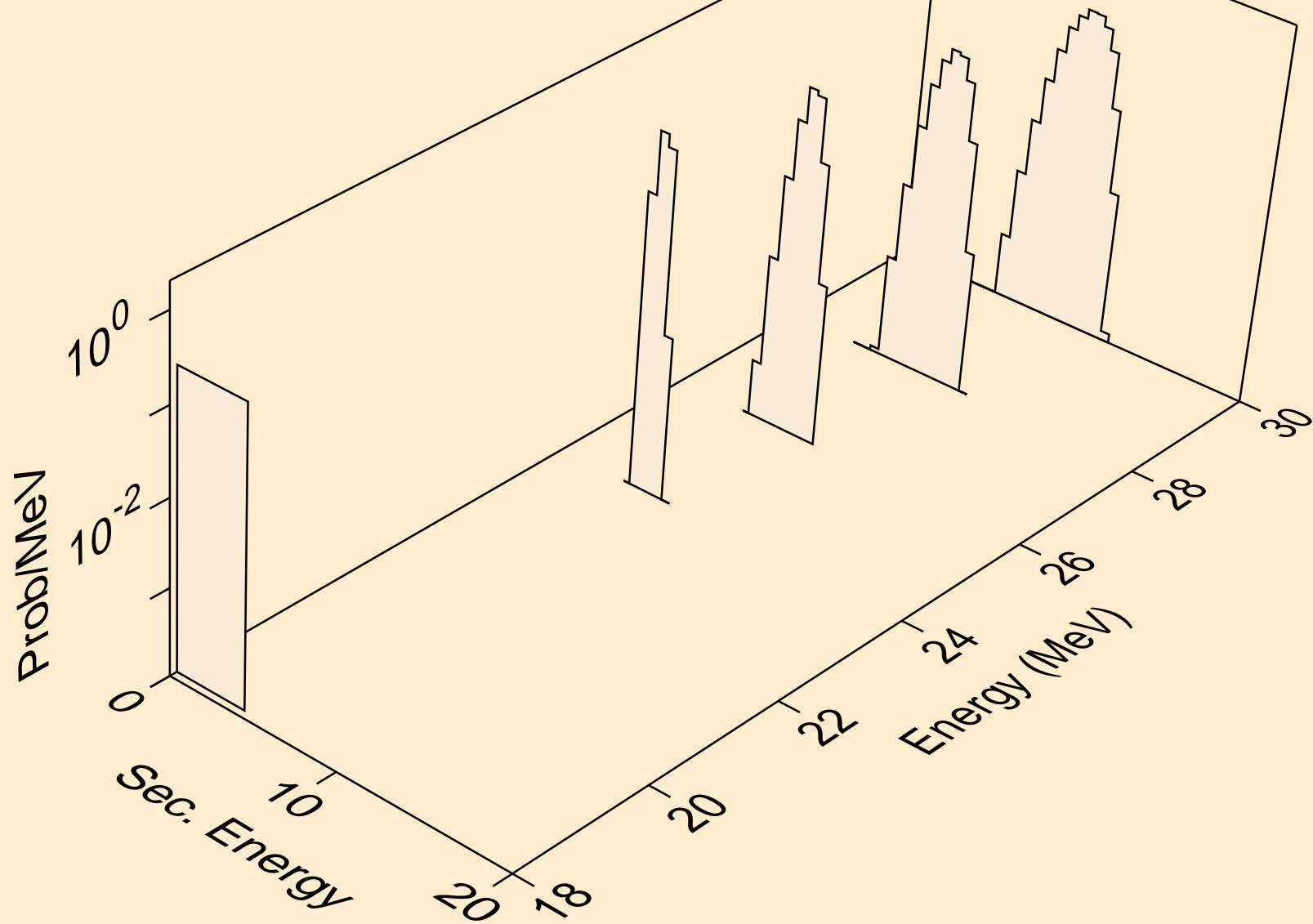
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a

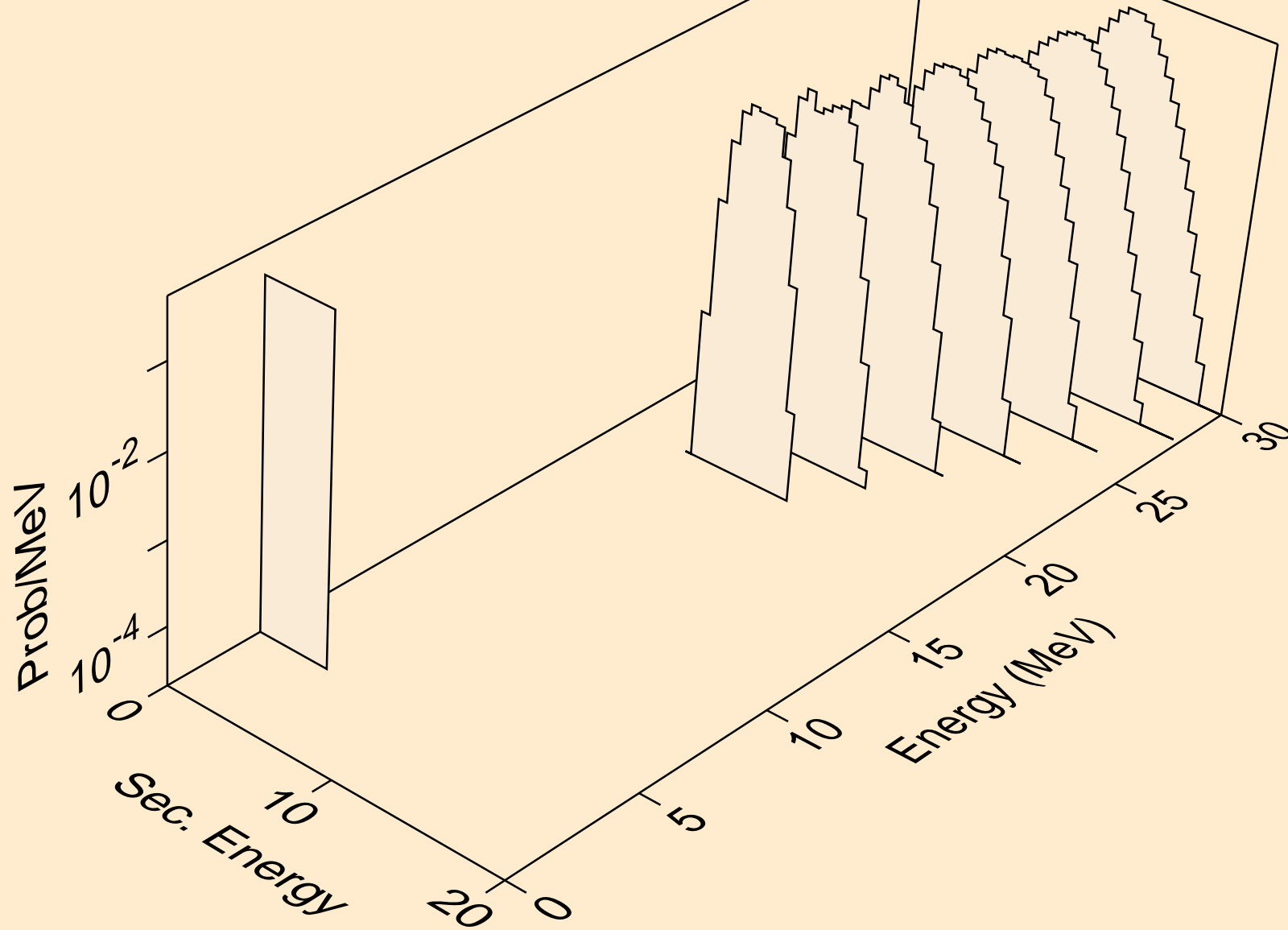


CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a

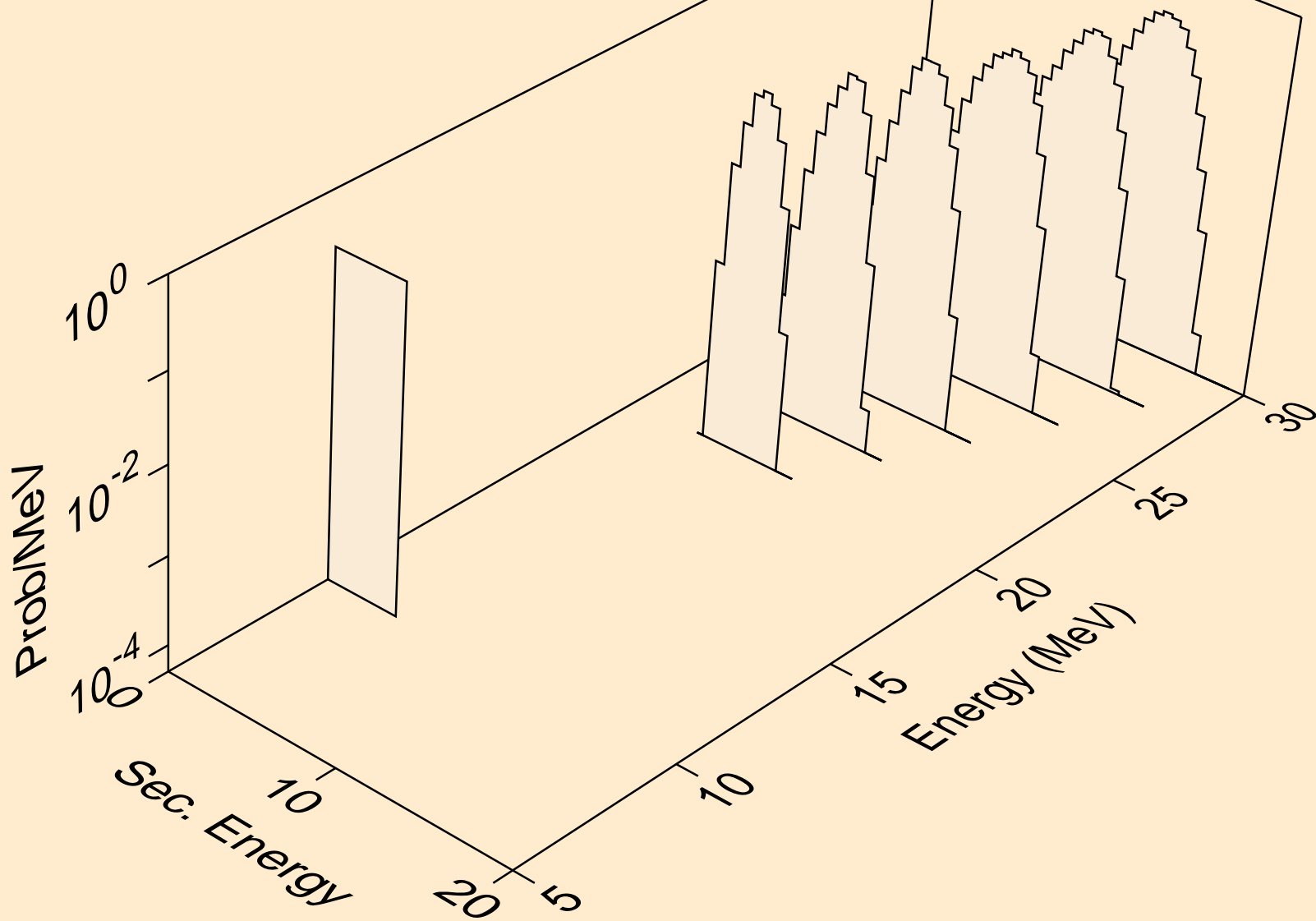




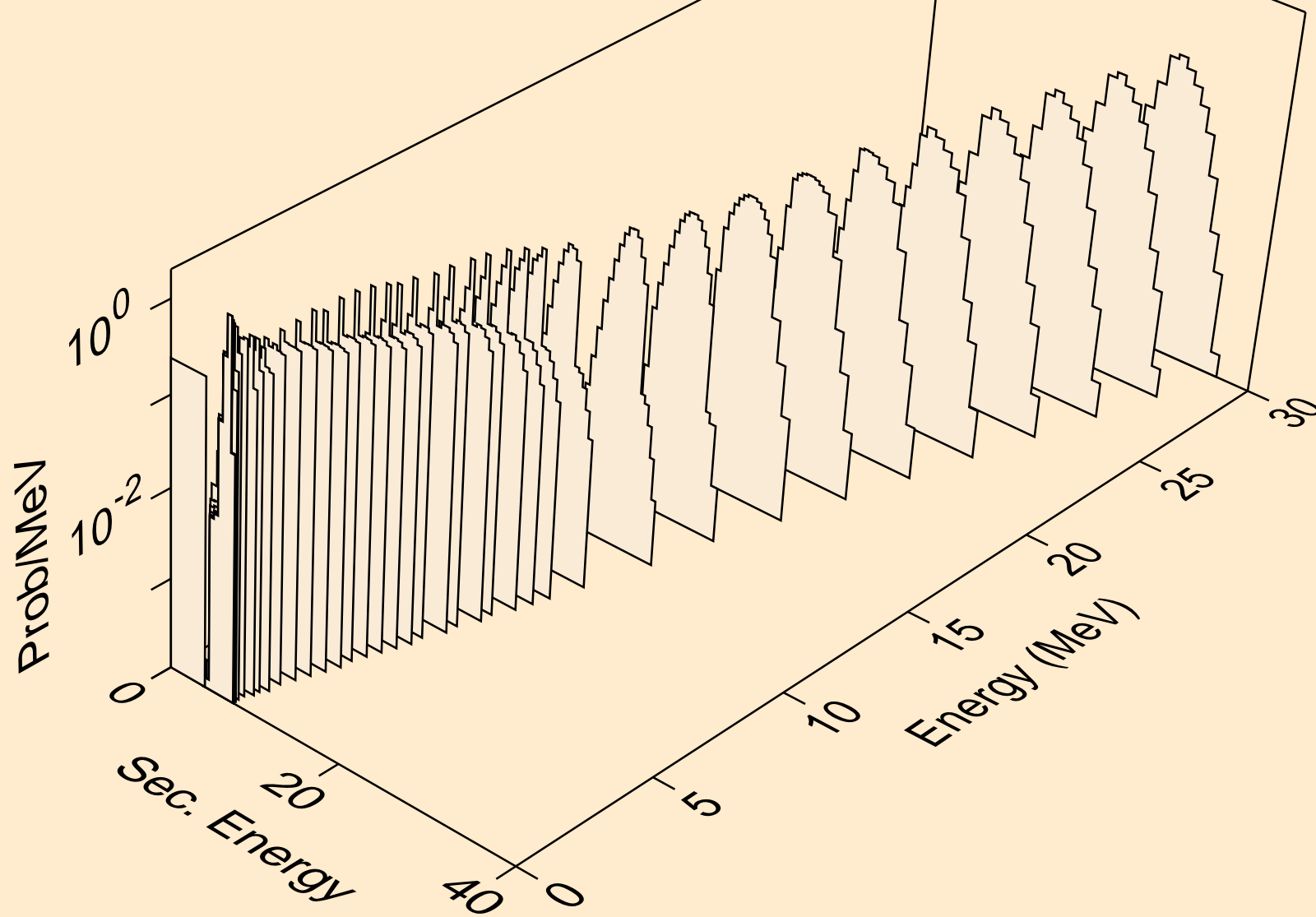
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a



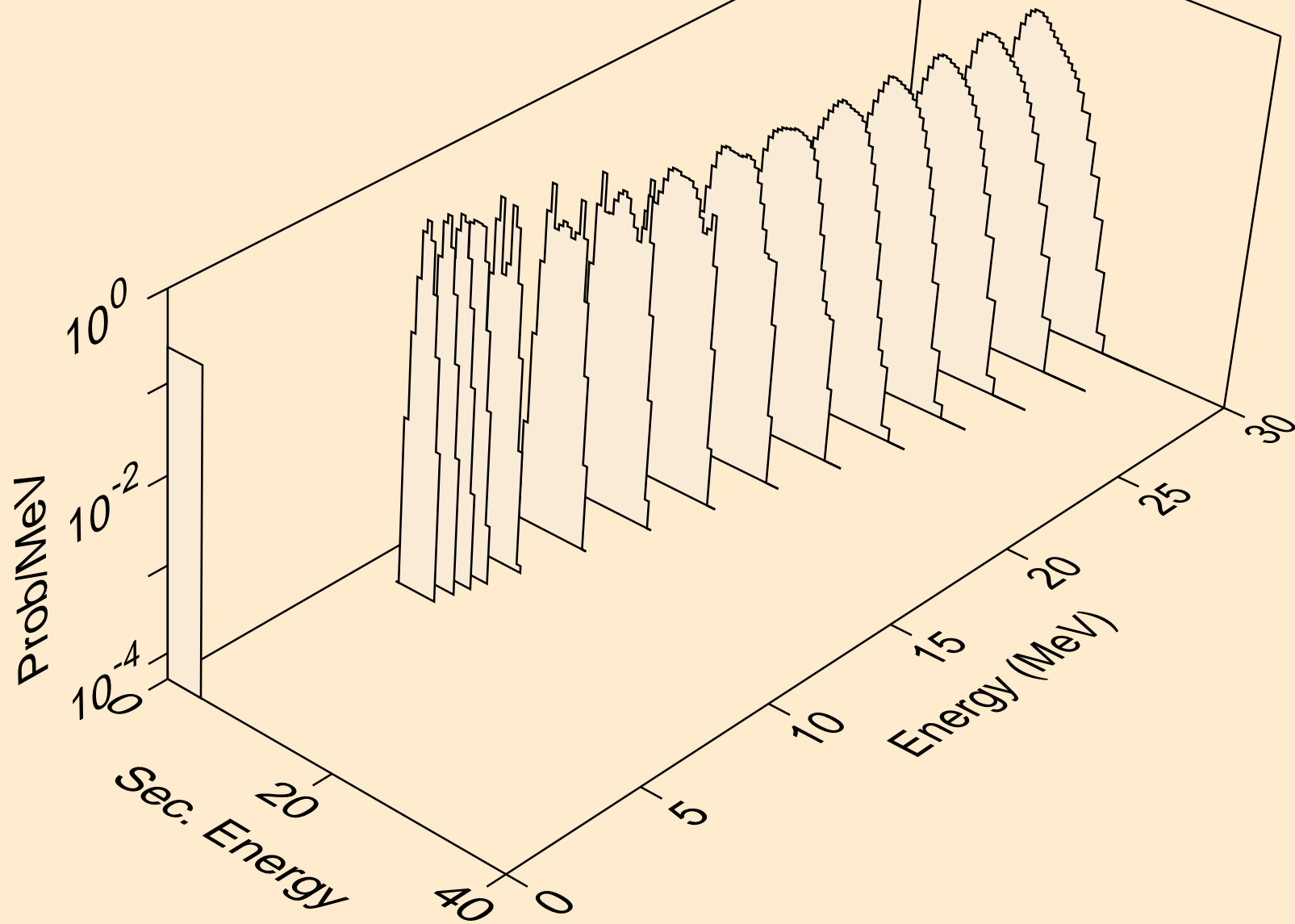
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



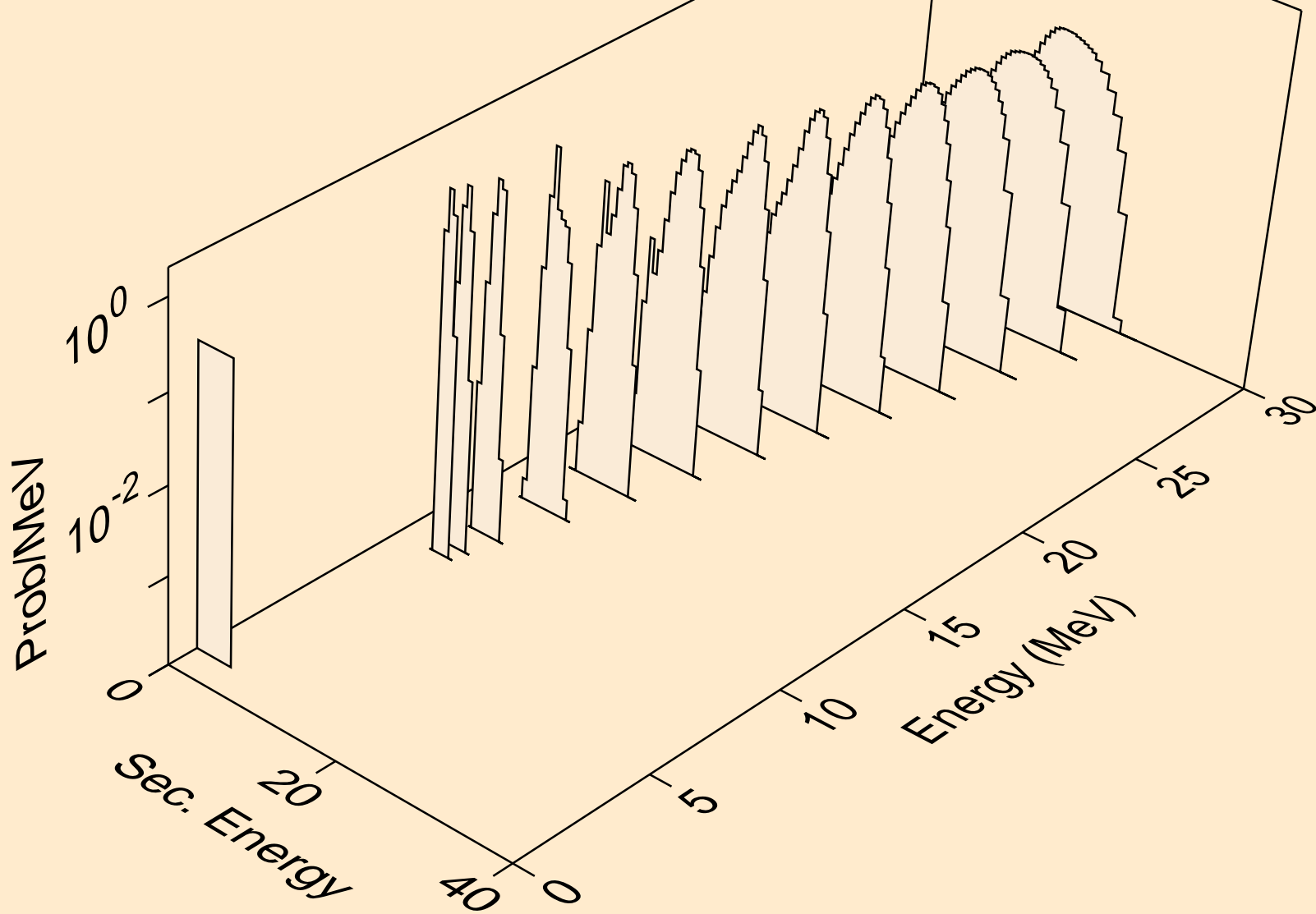
CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



CE139 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

