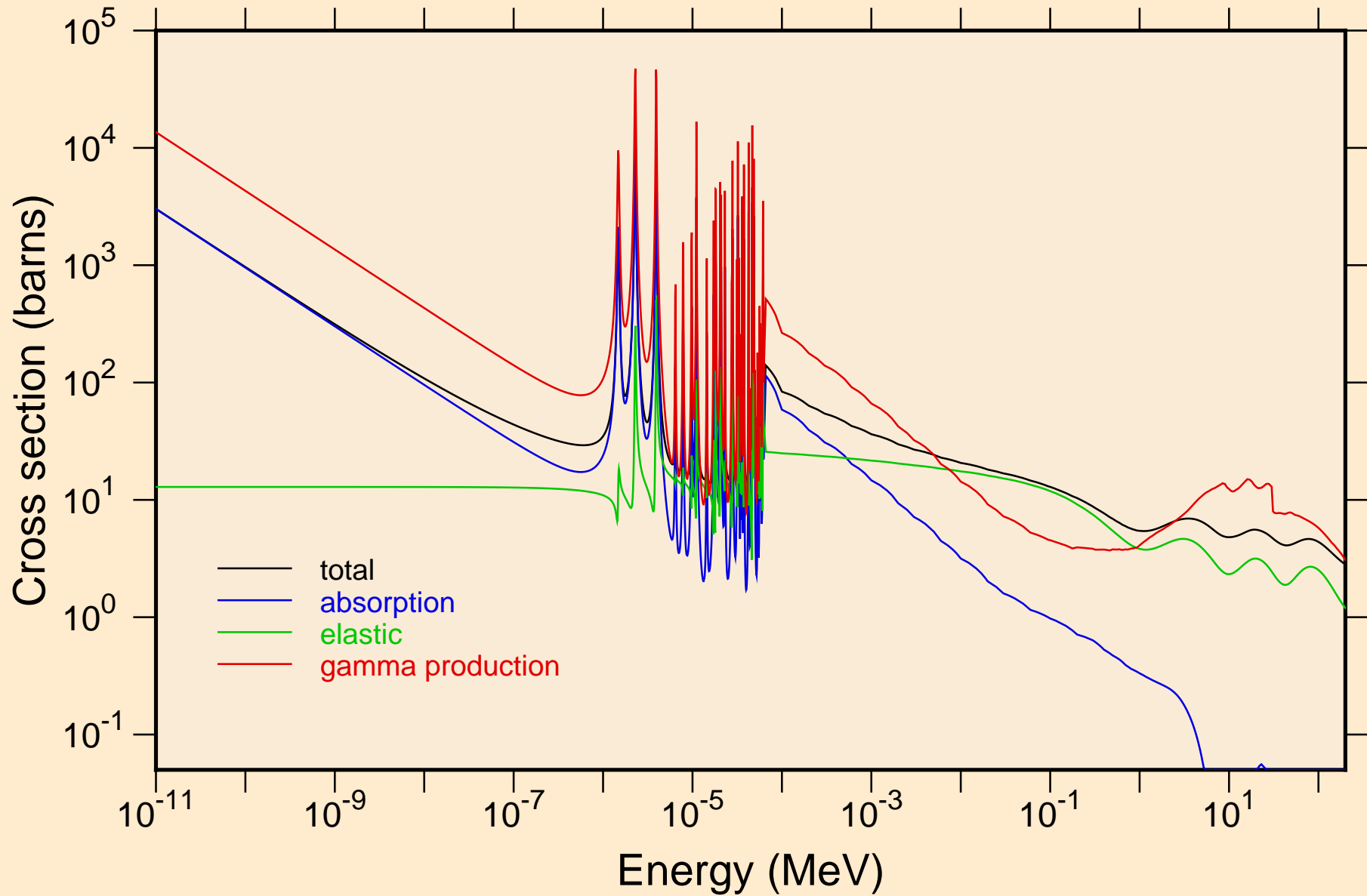
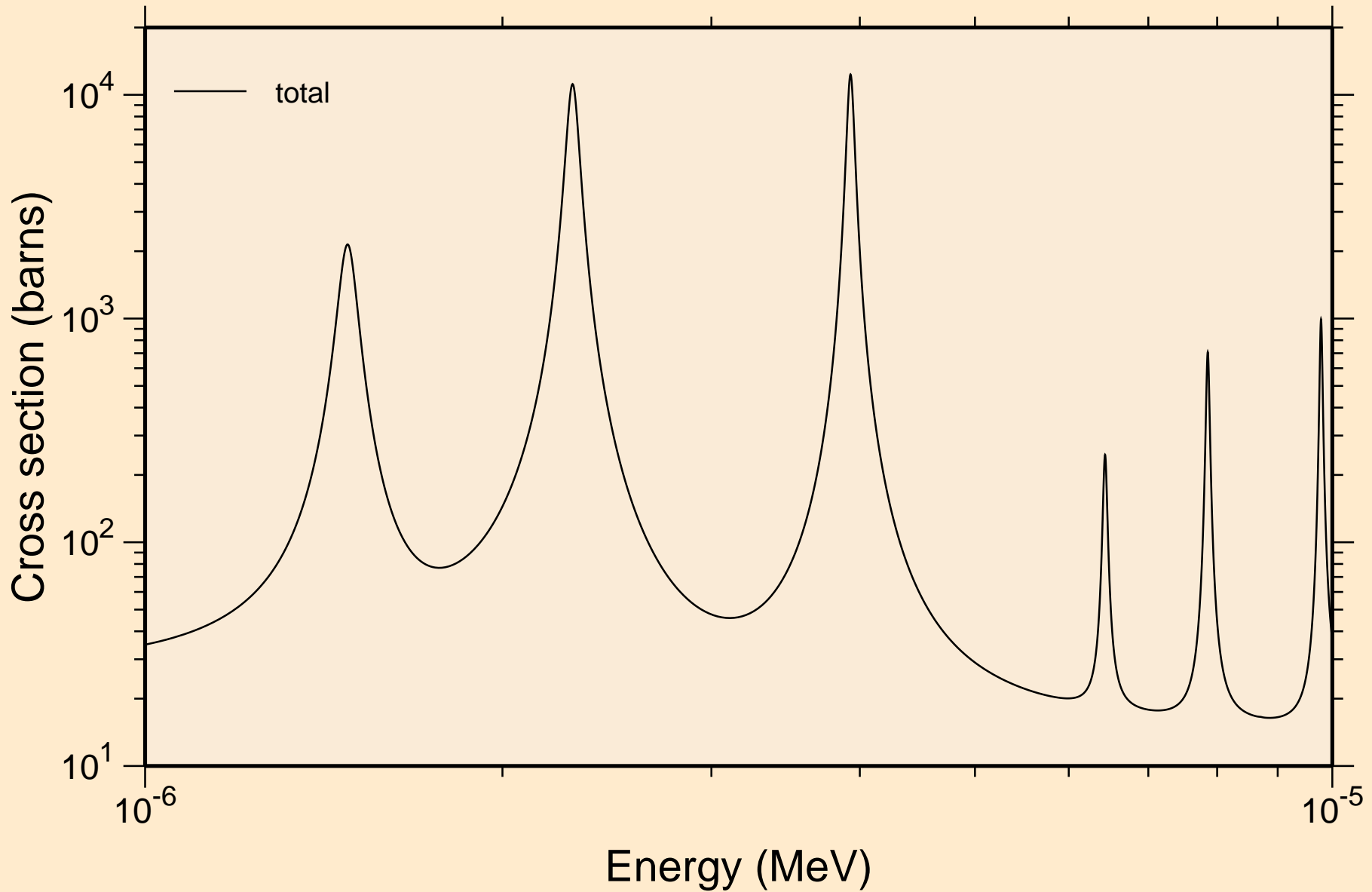


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

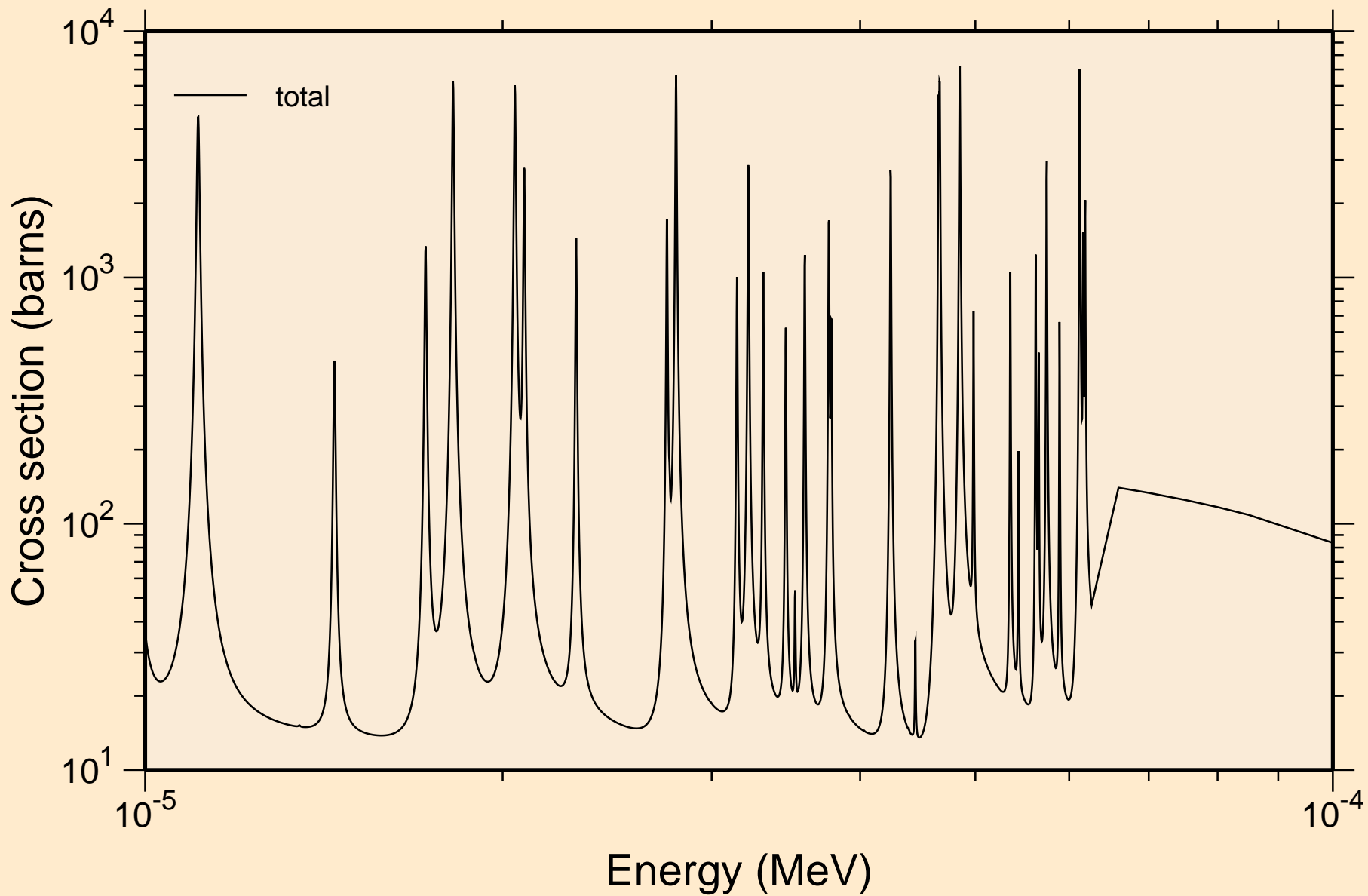
## Principal cross sections



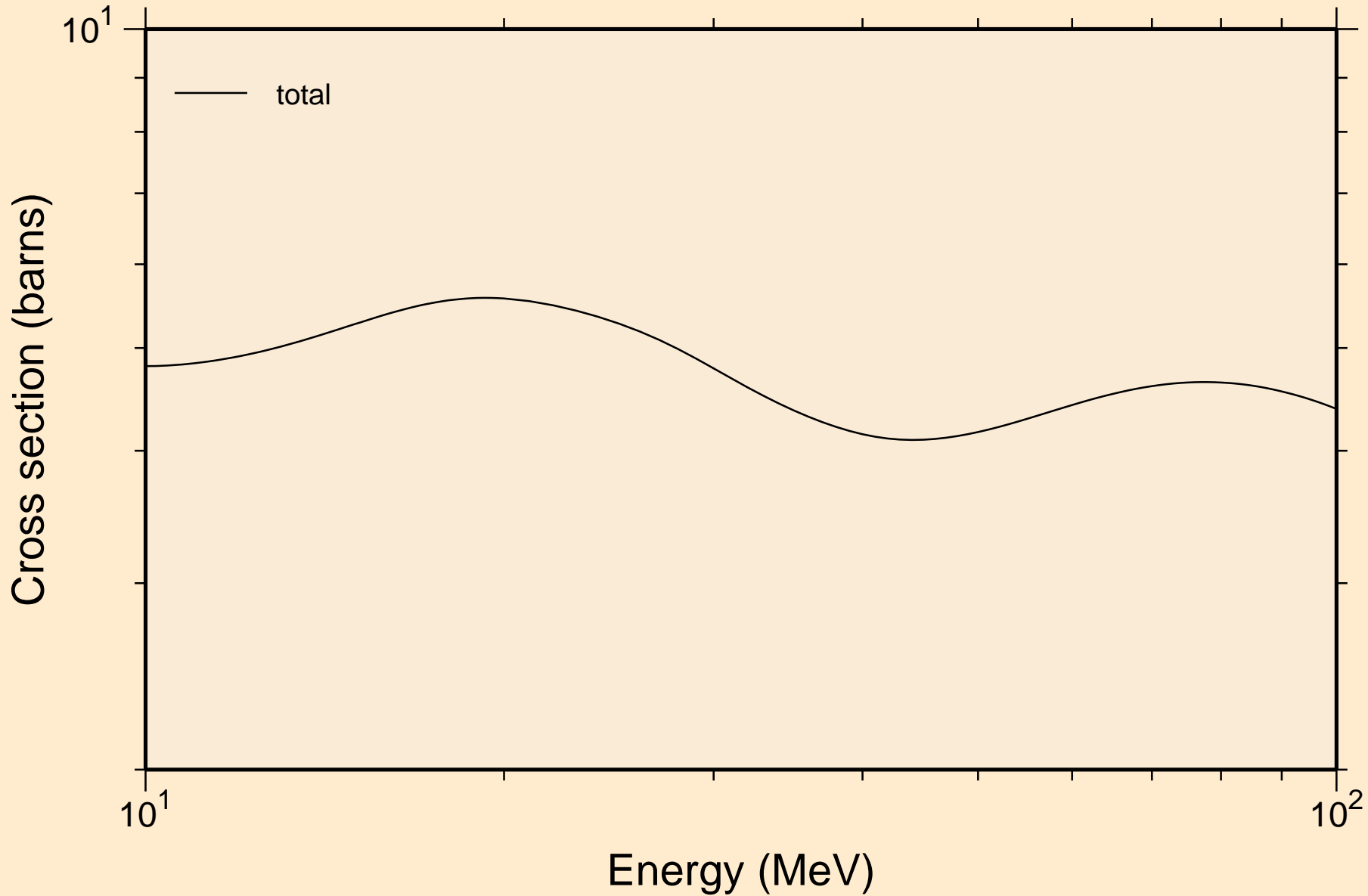
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



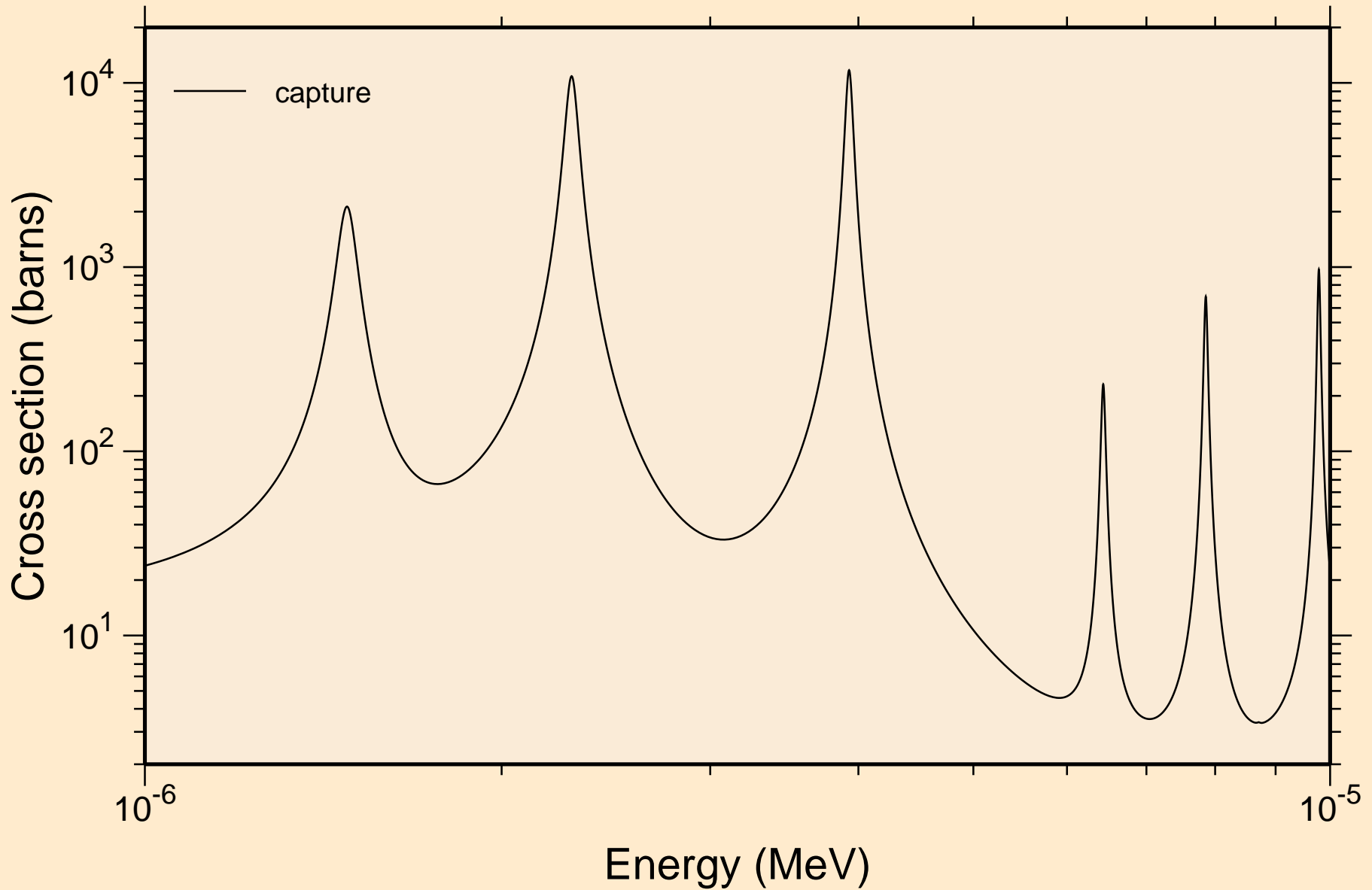
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



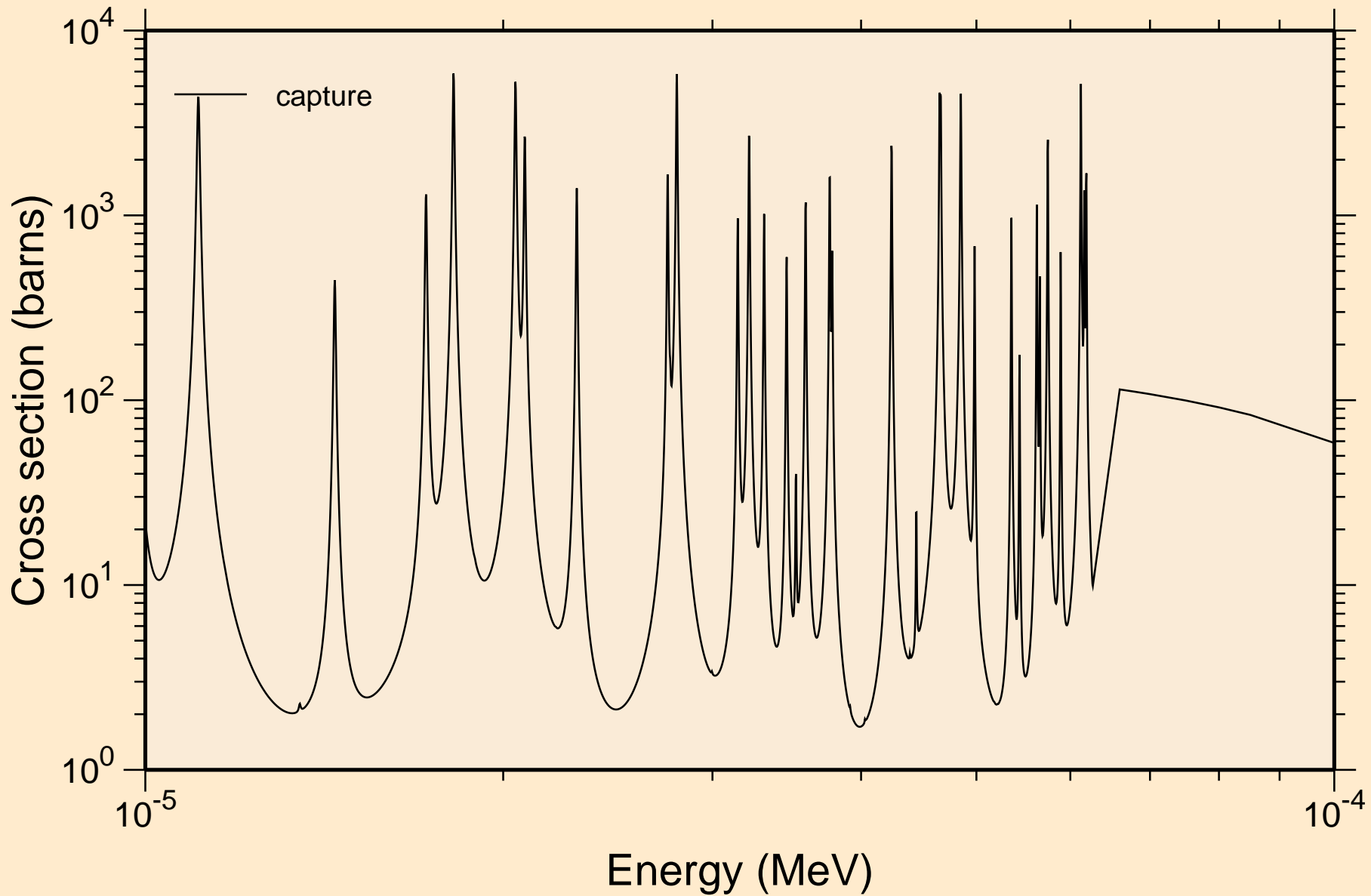
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



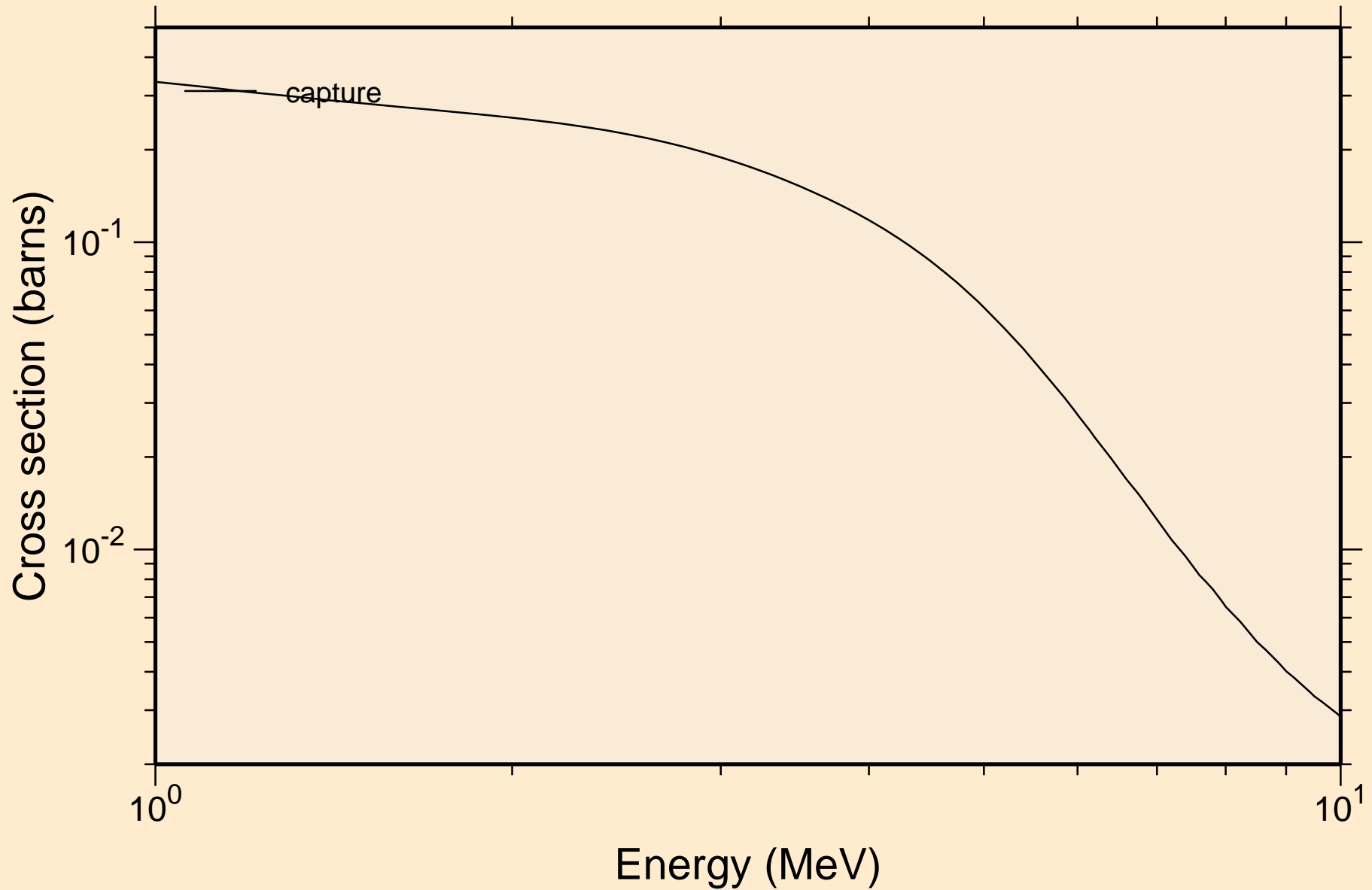
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



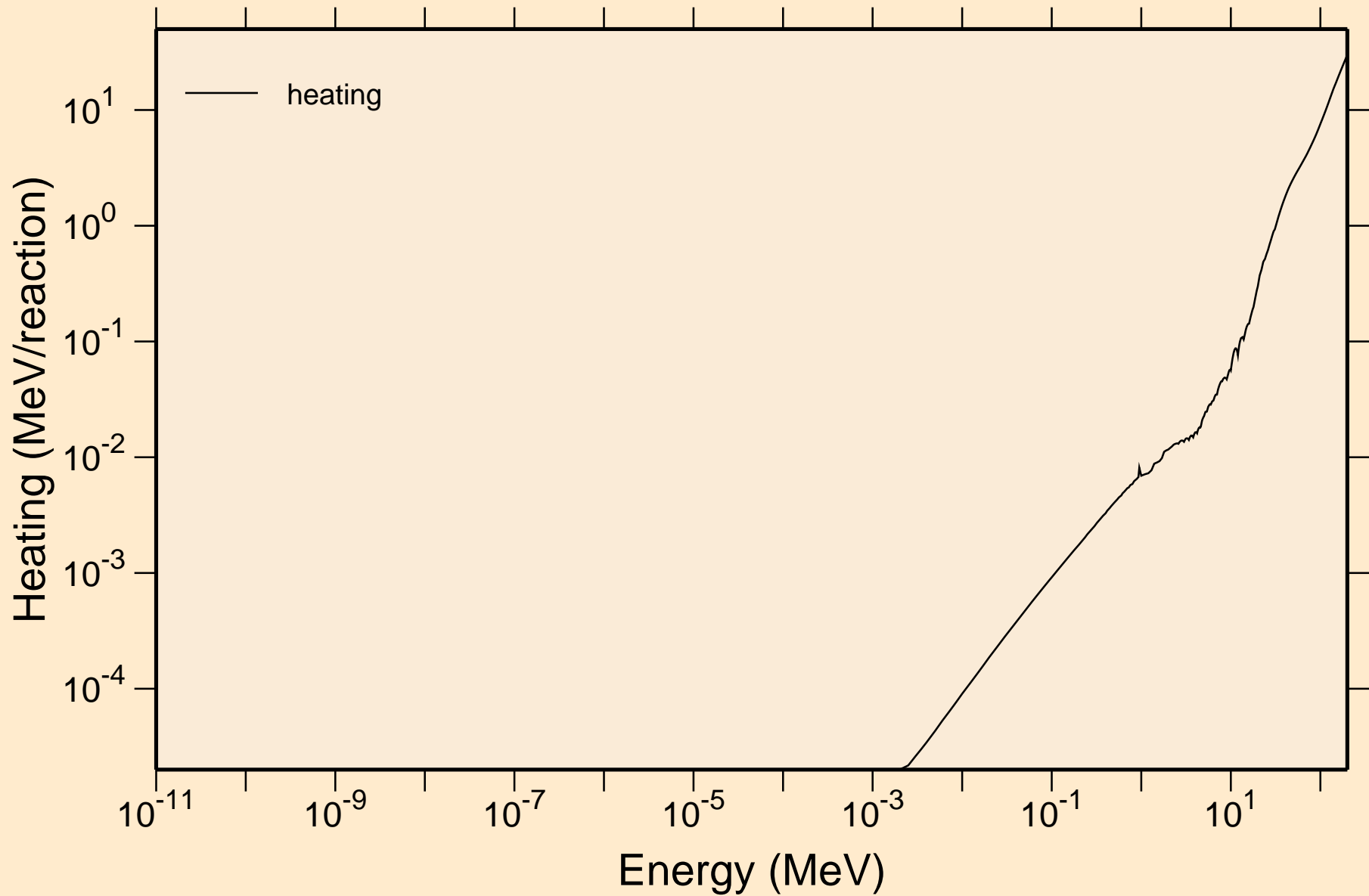
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

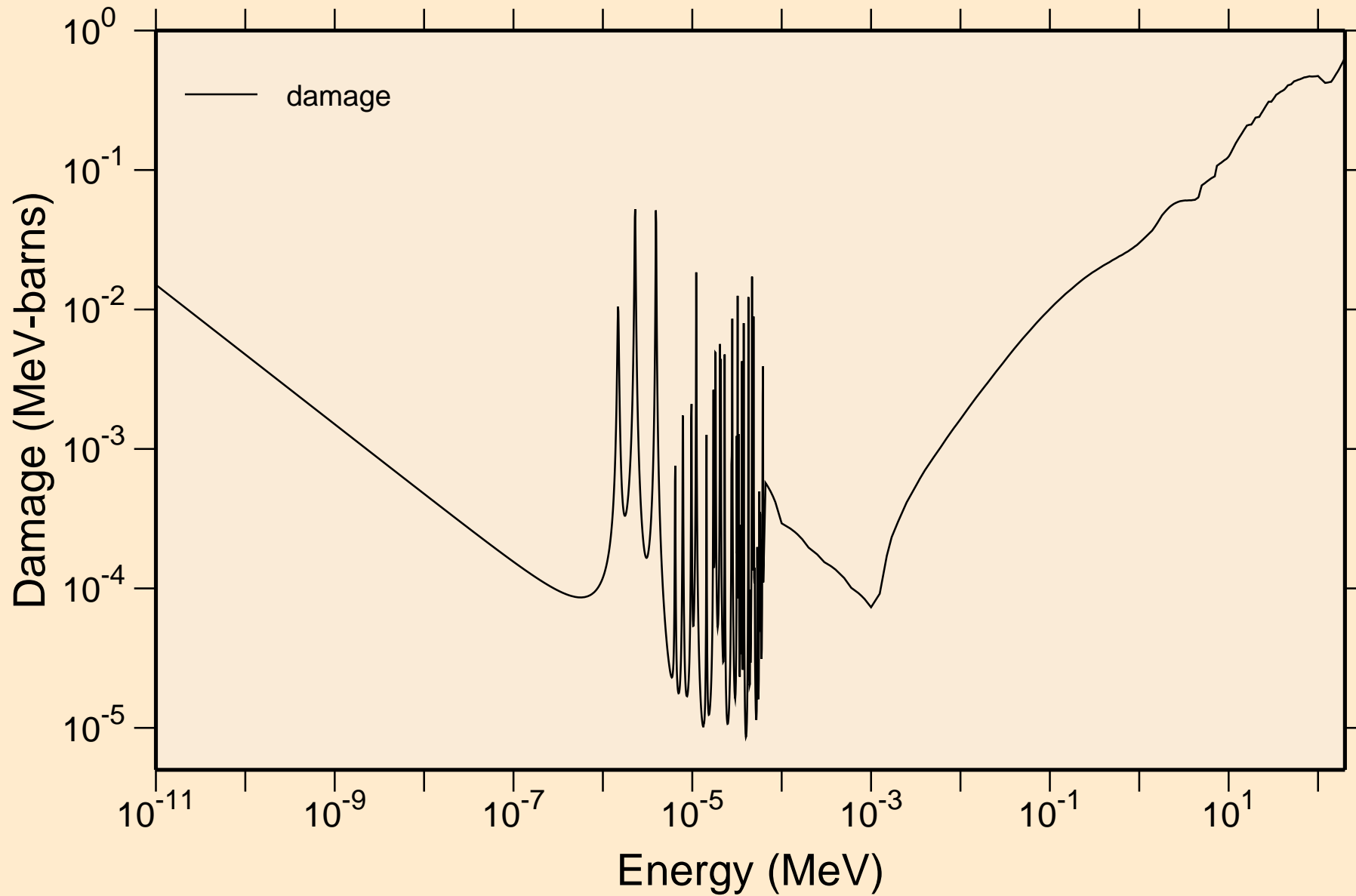


IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Heating

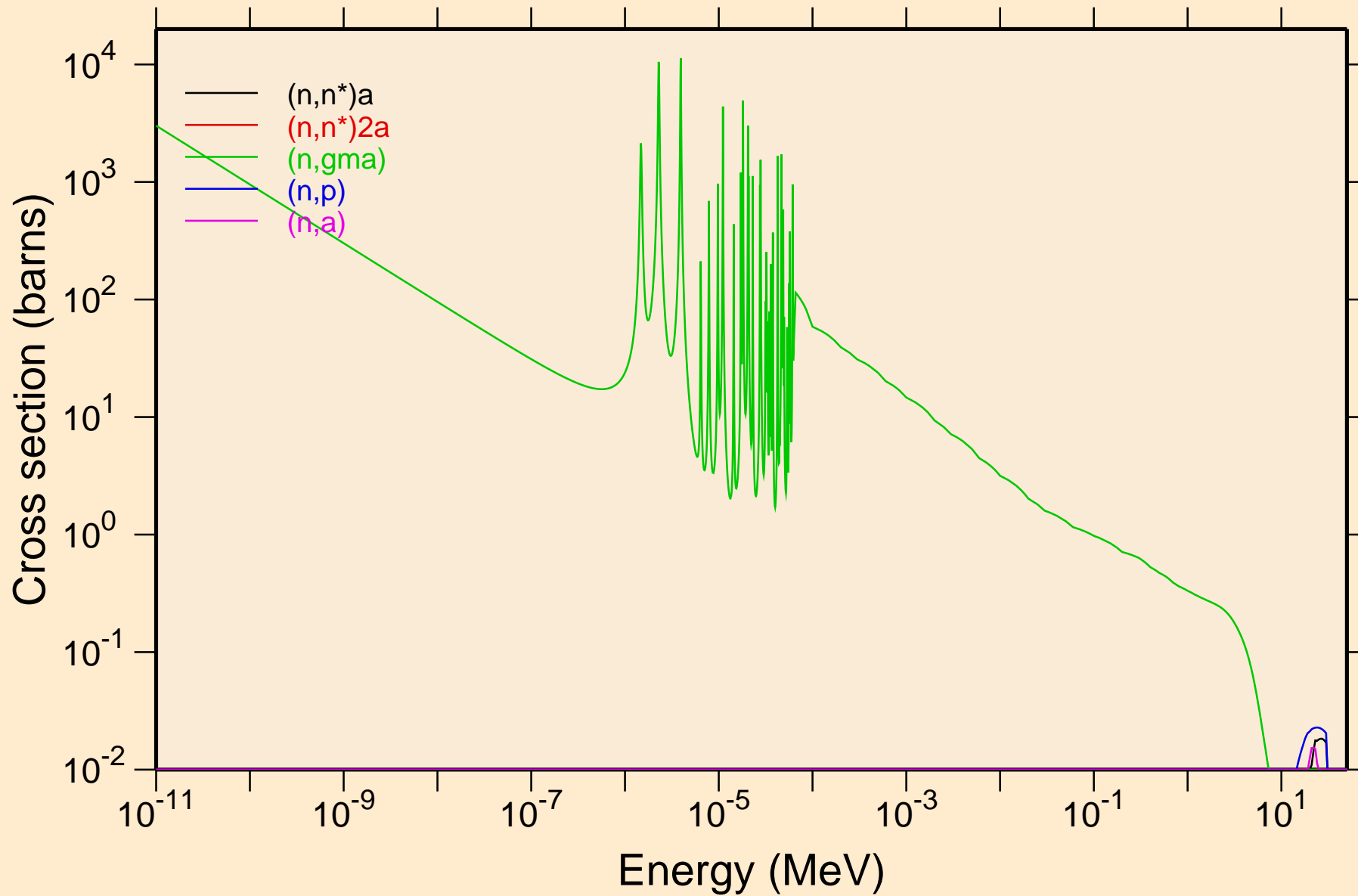


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

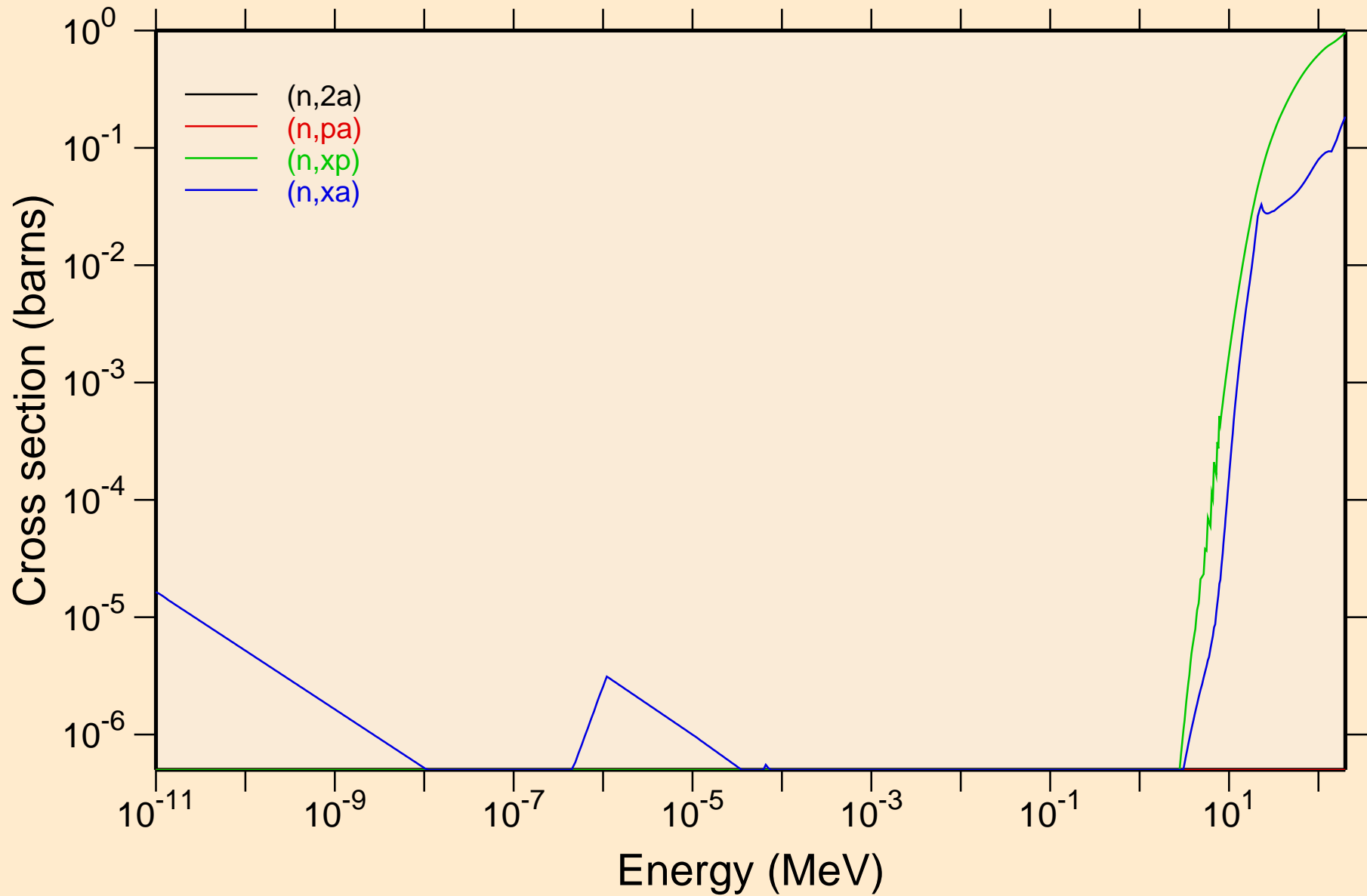
## Damage



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions

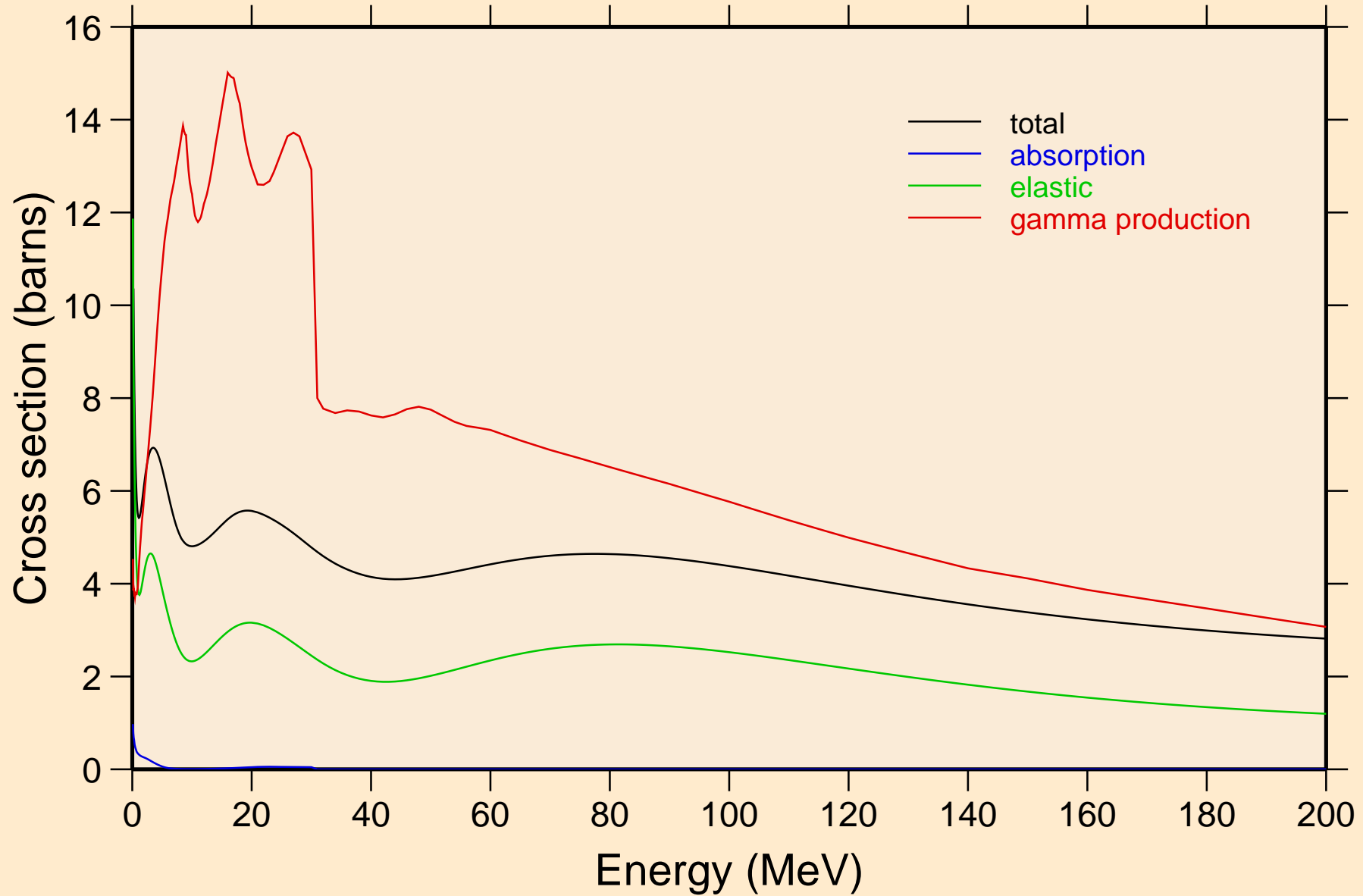


IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



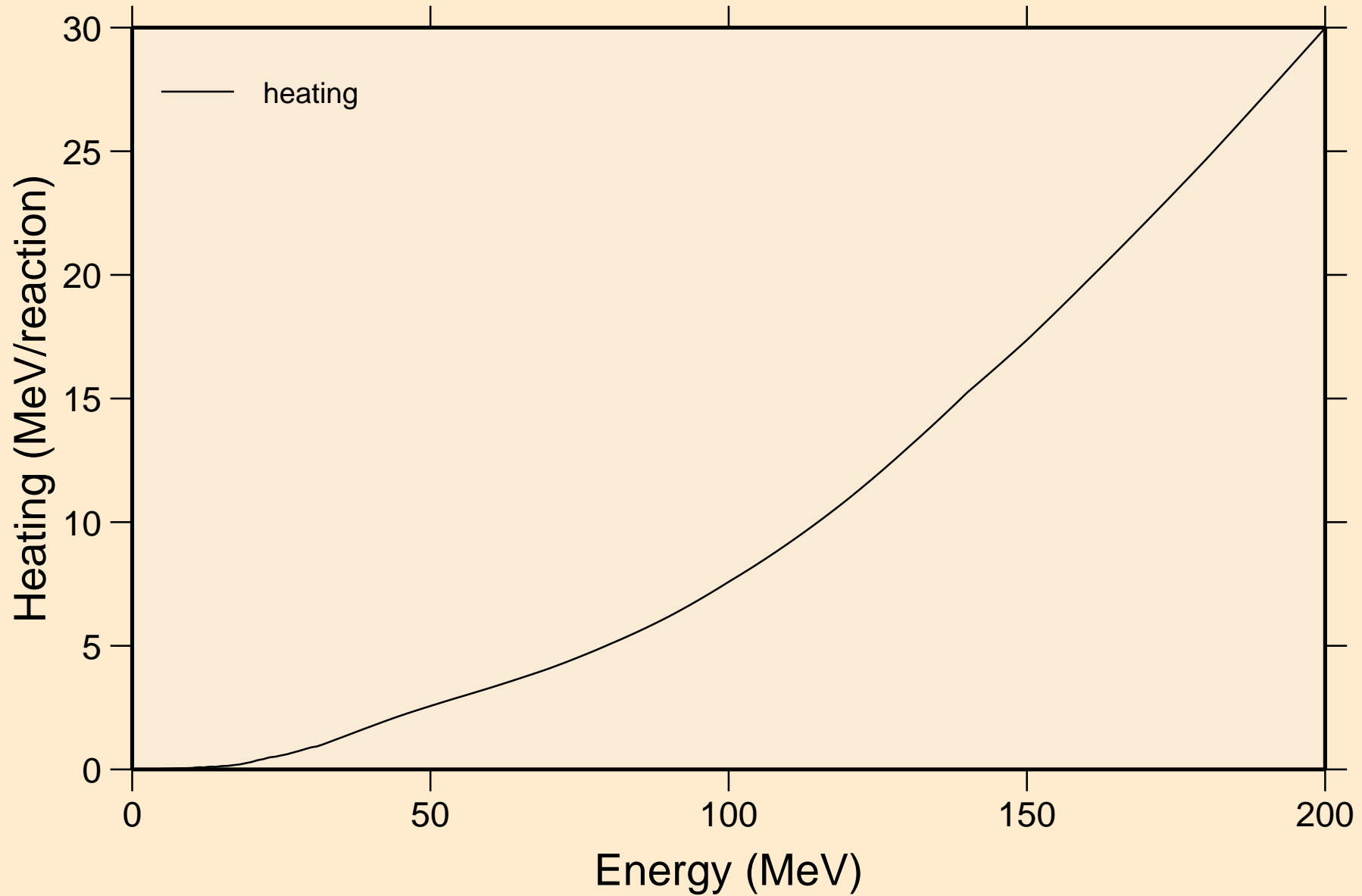
# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



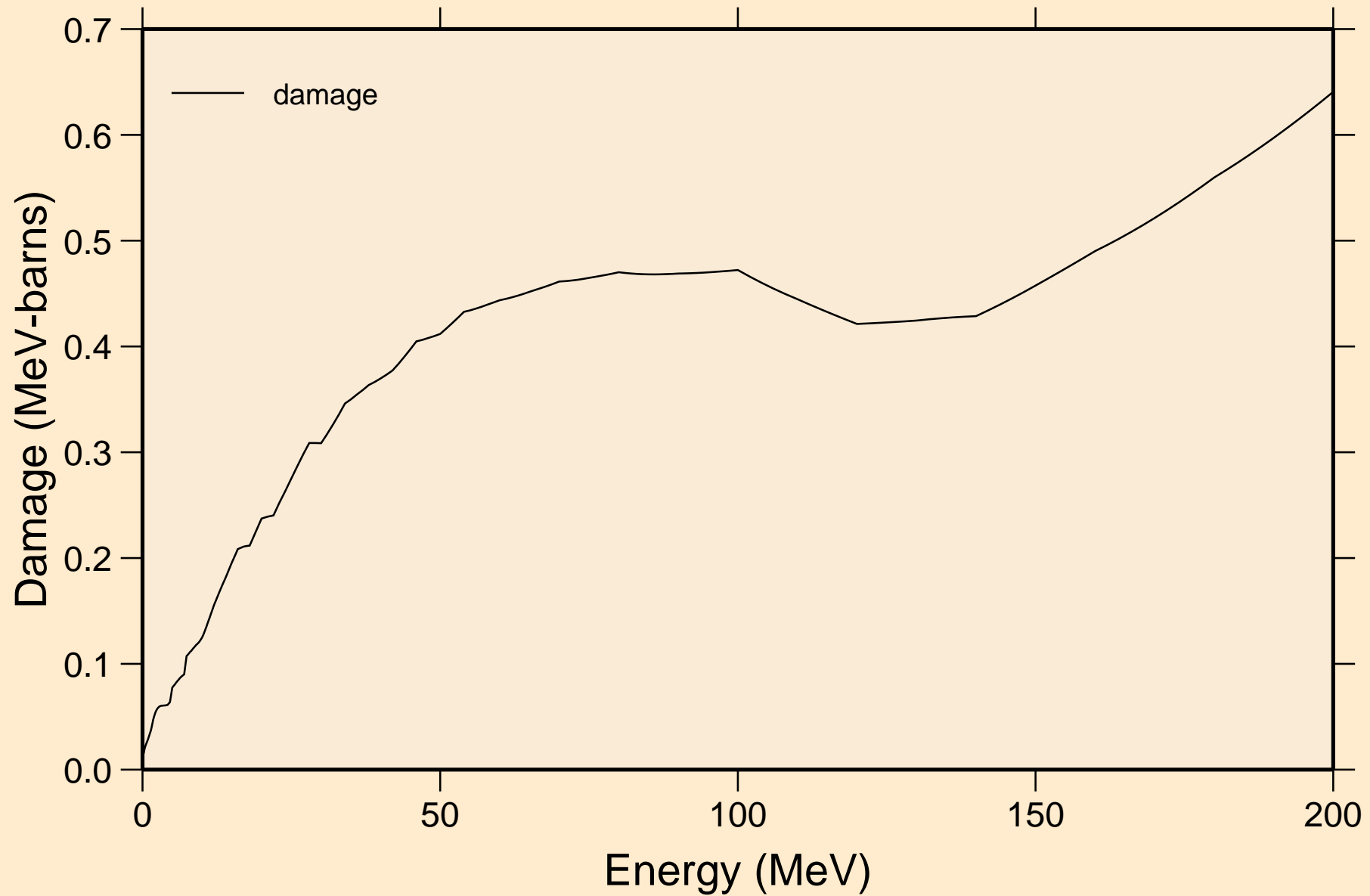
# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

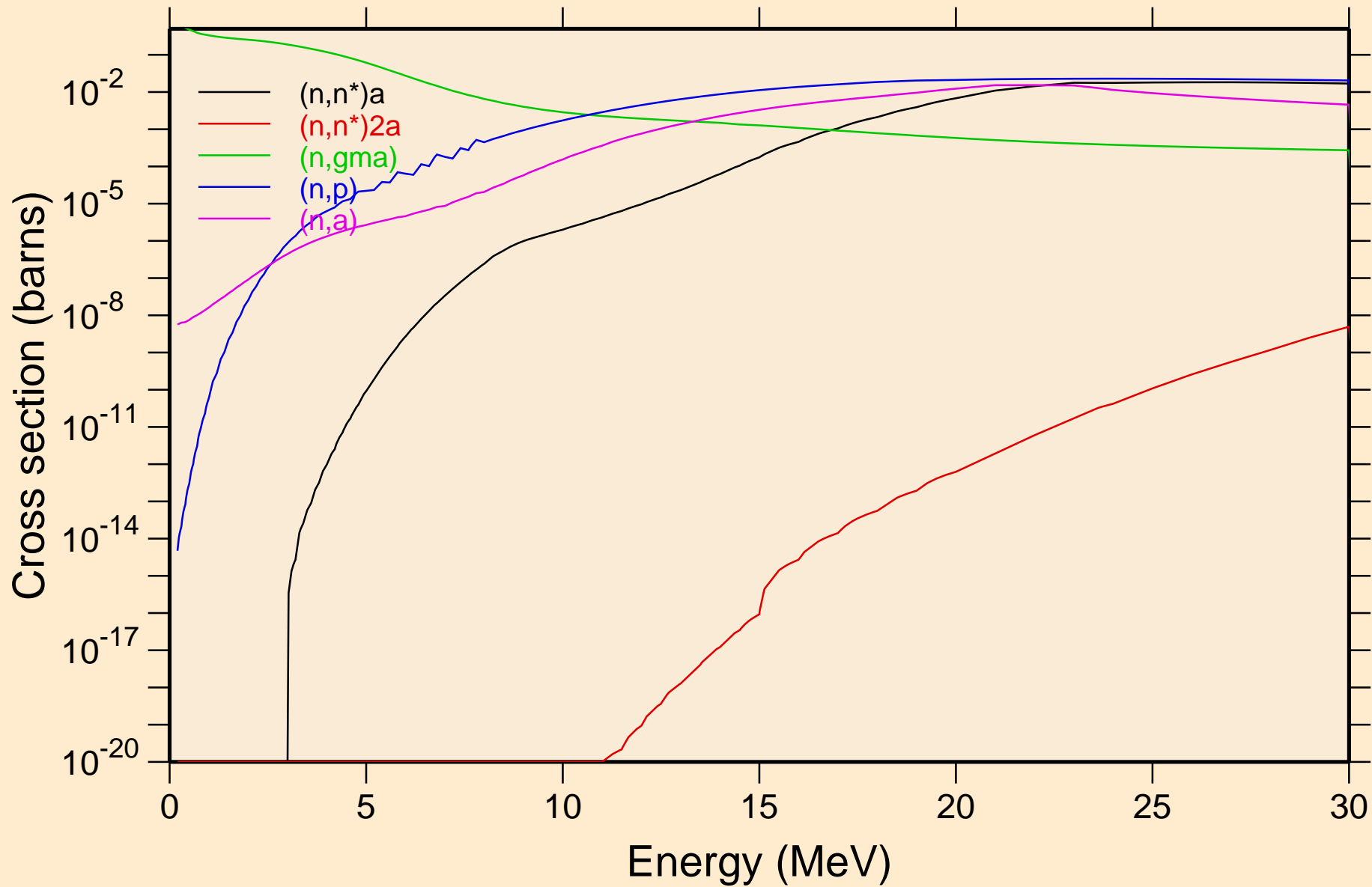


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

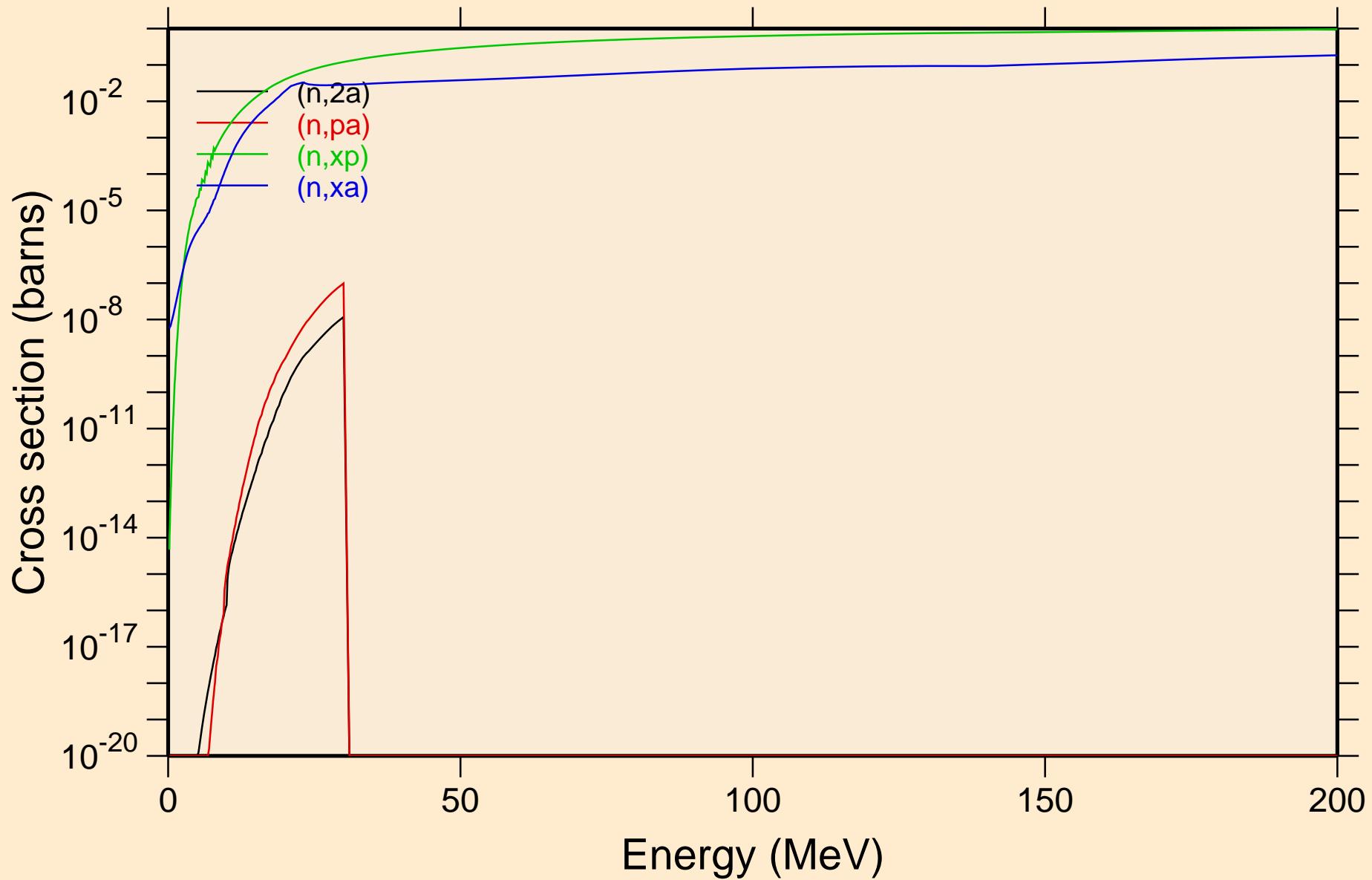
## Damage



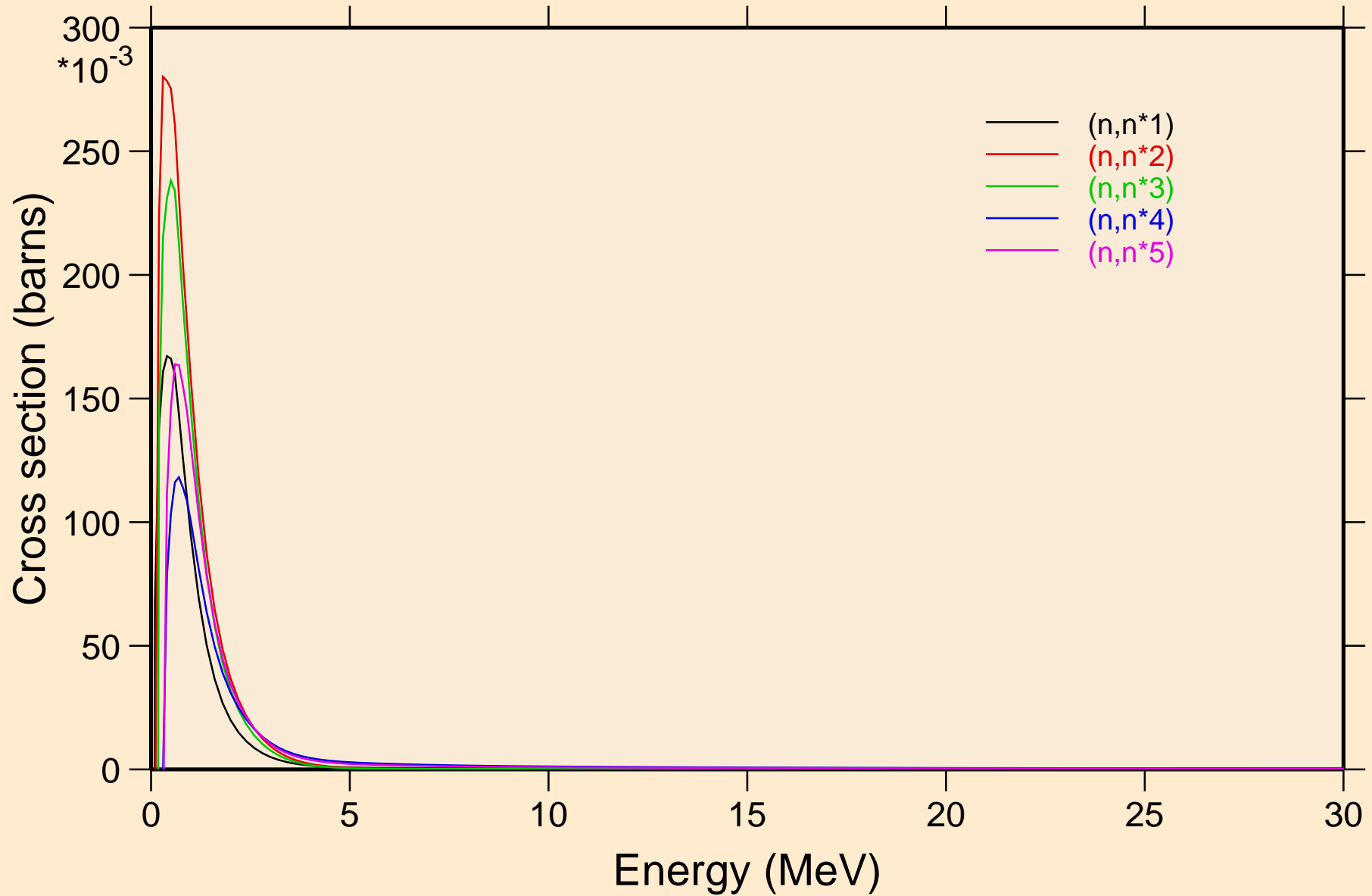
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



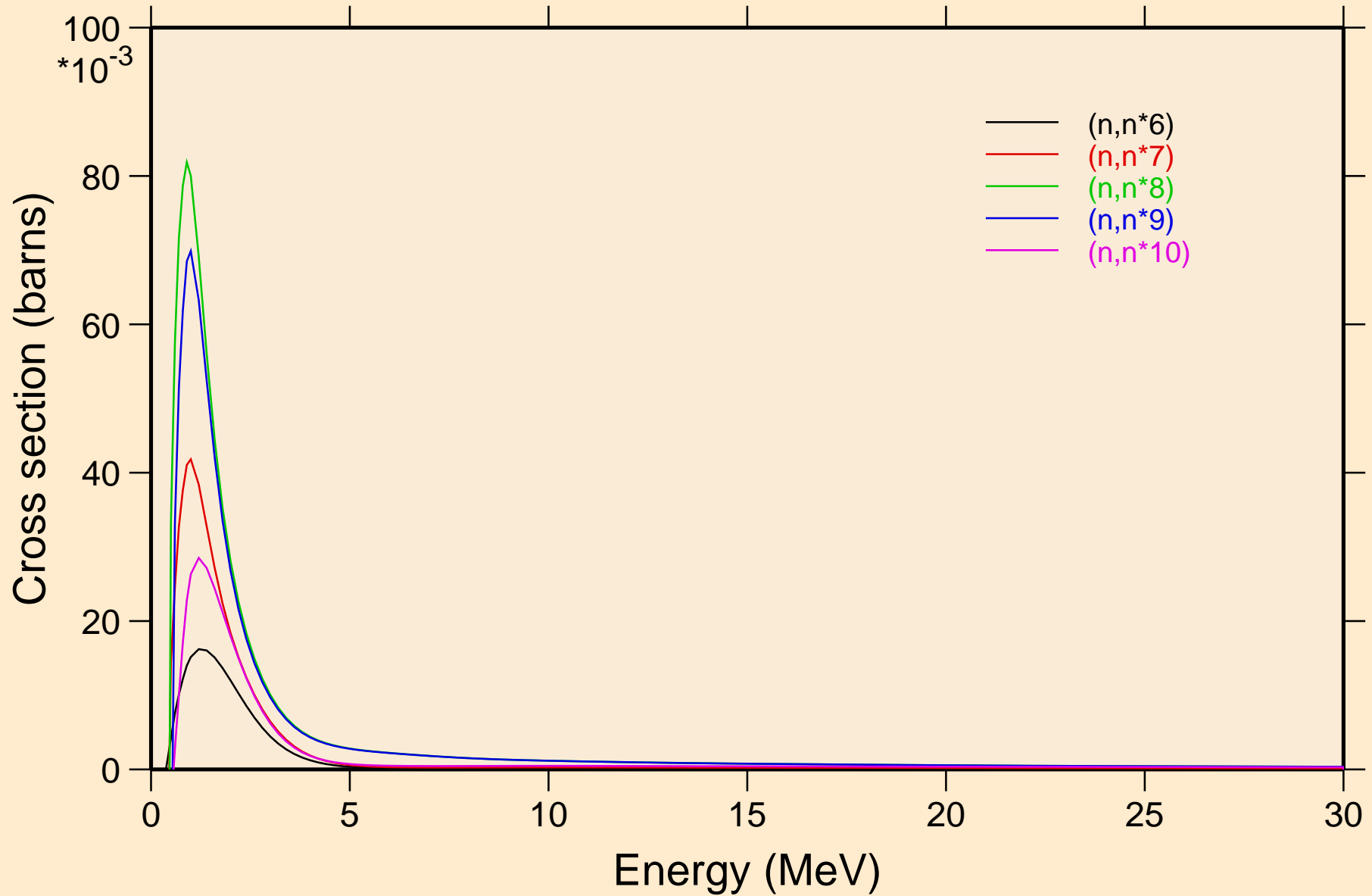
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



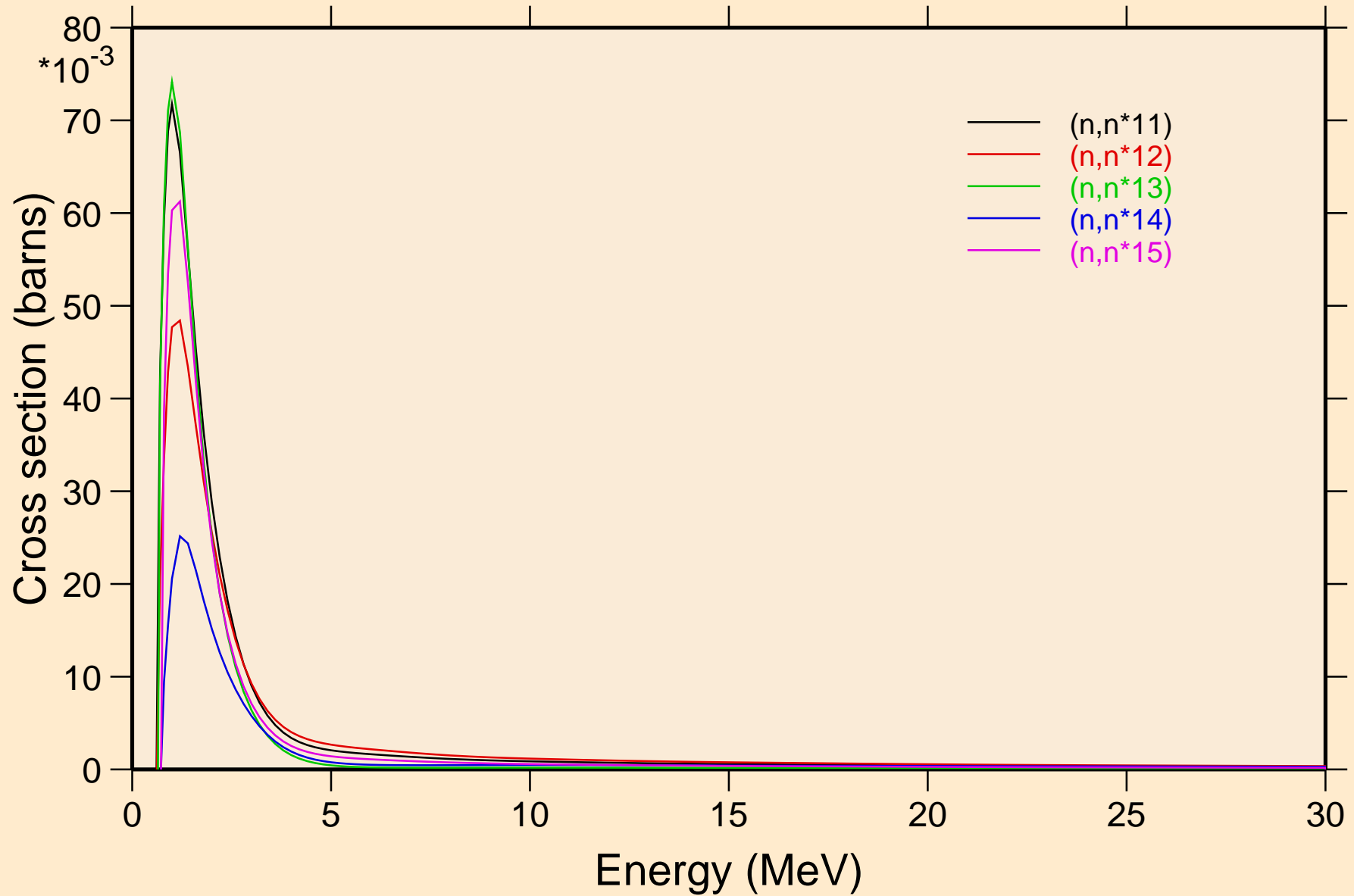
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



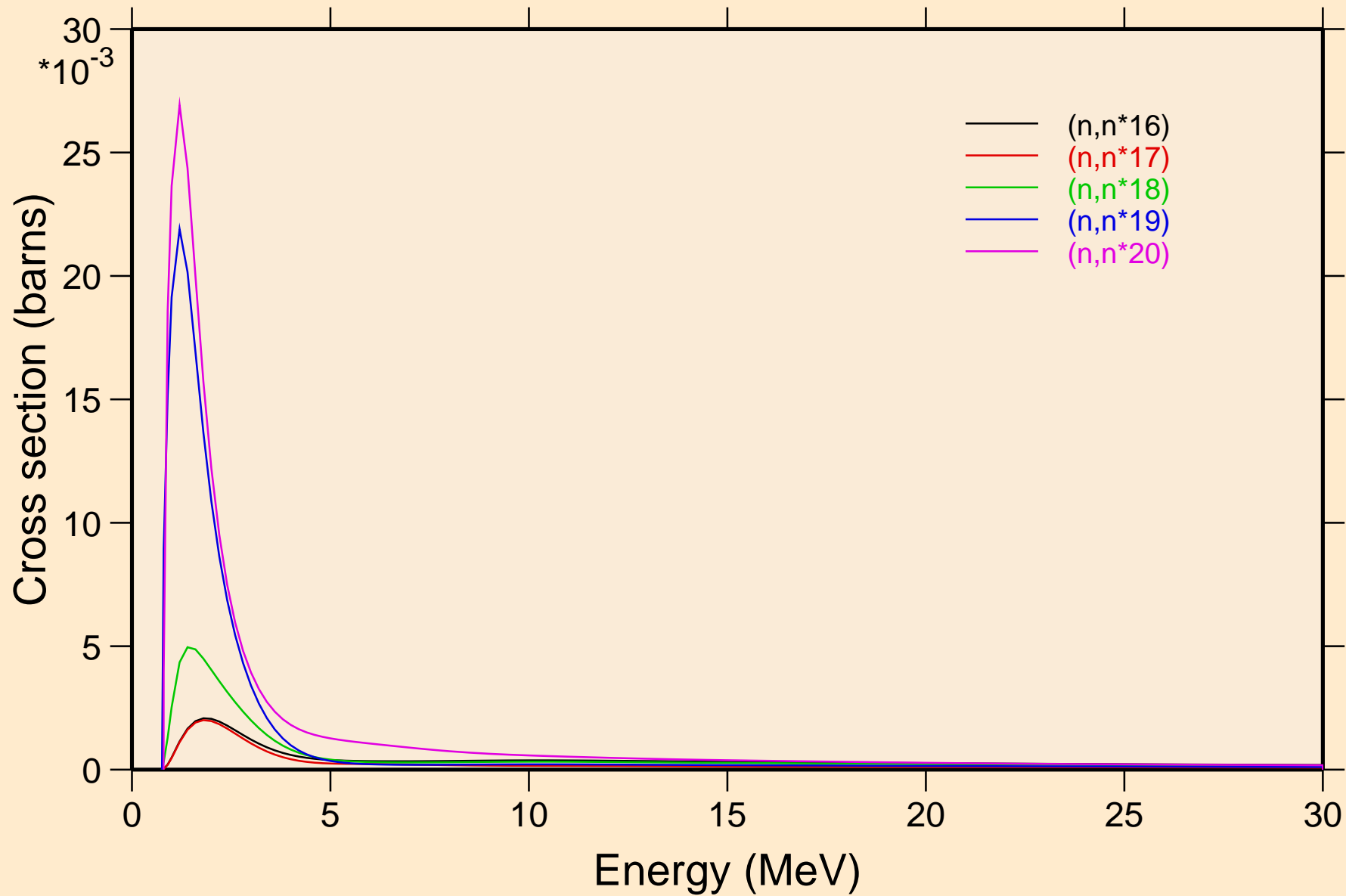
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



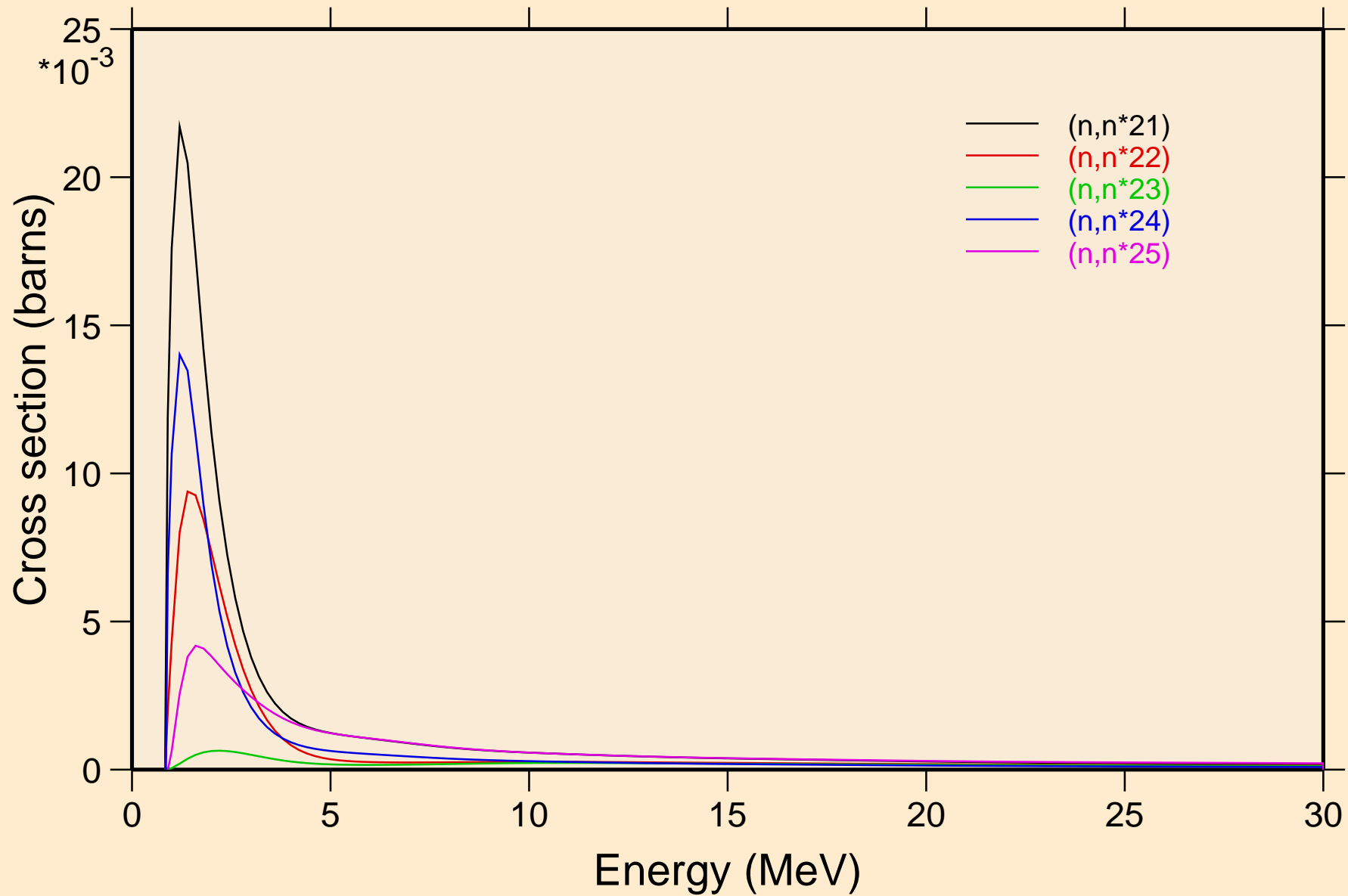
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



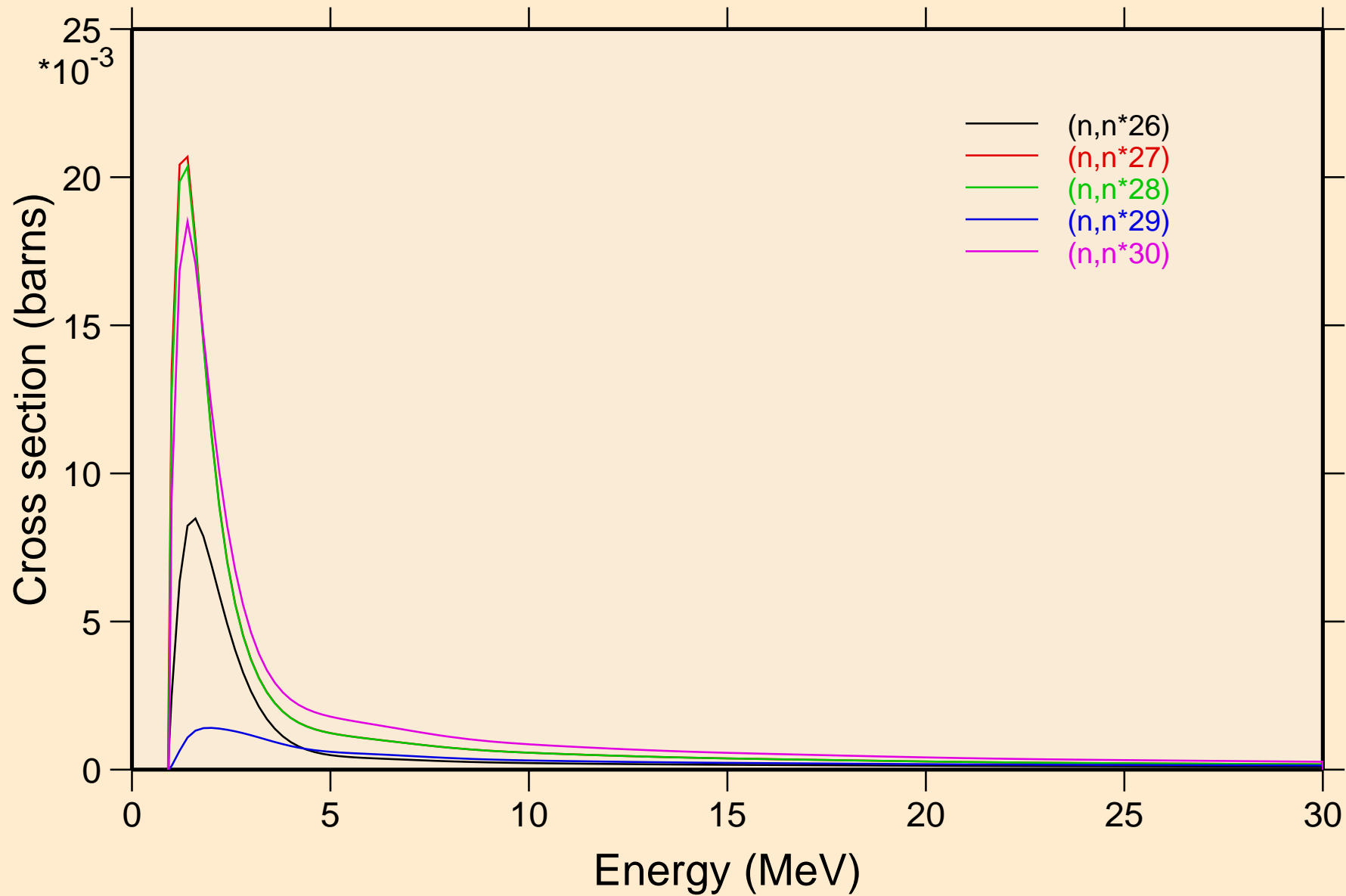
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



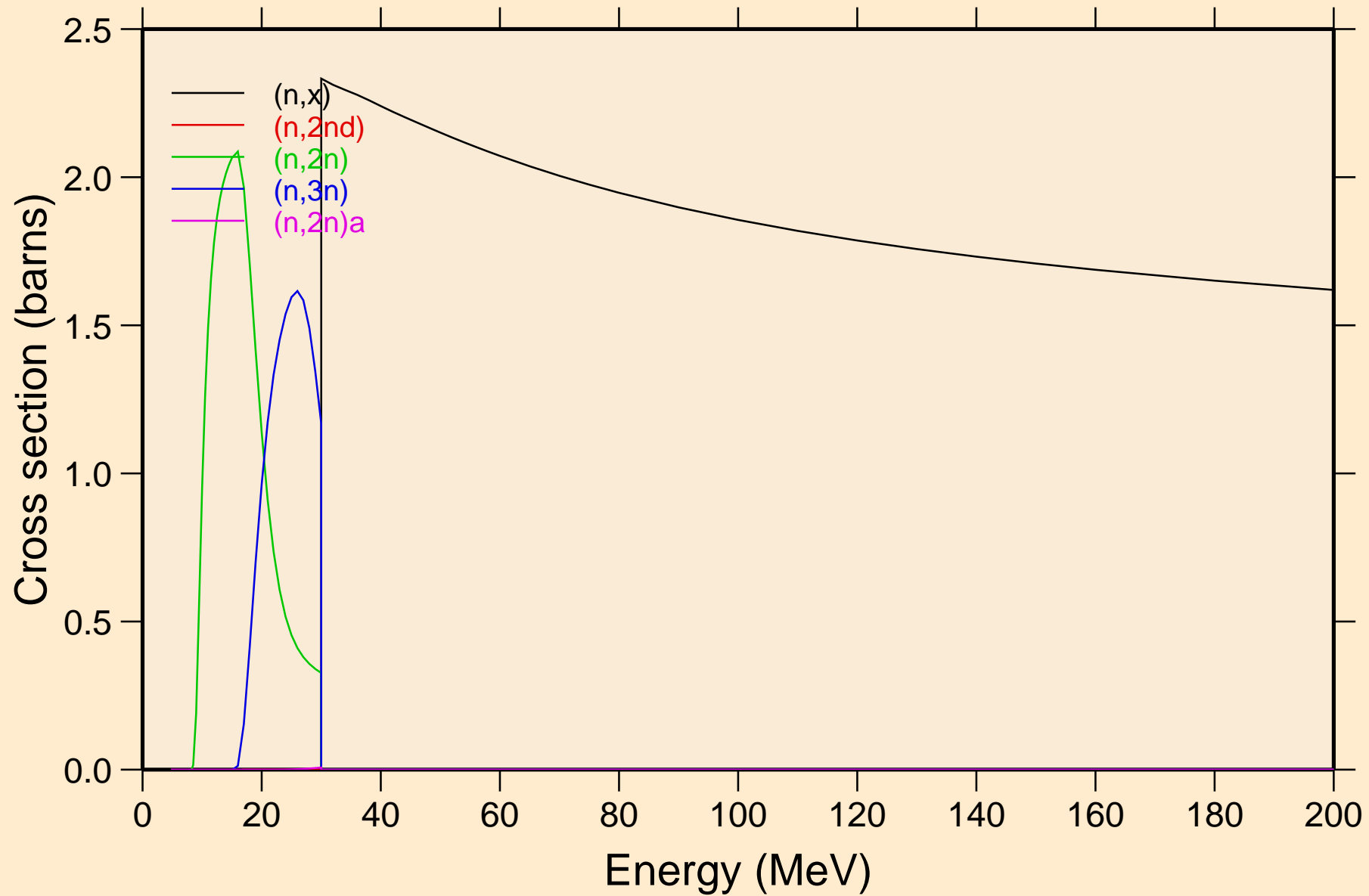
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



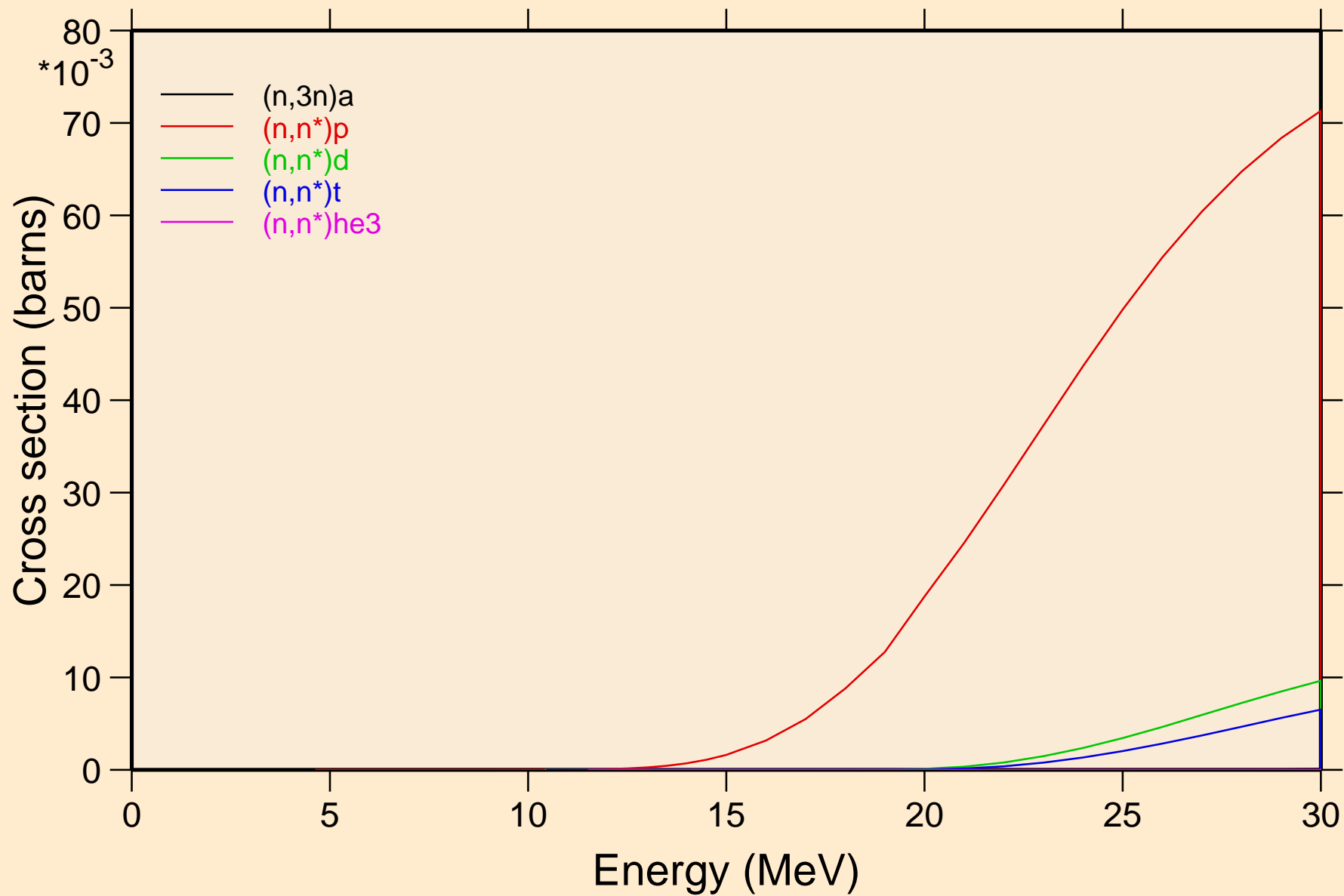
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



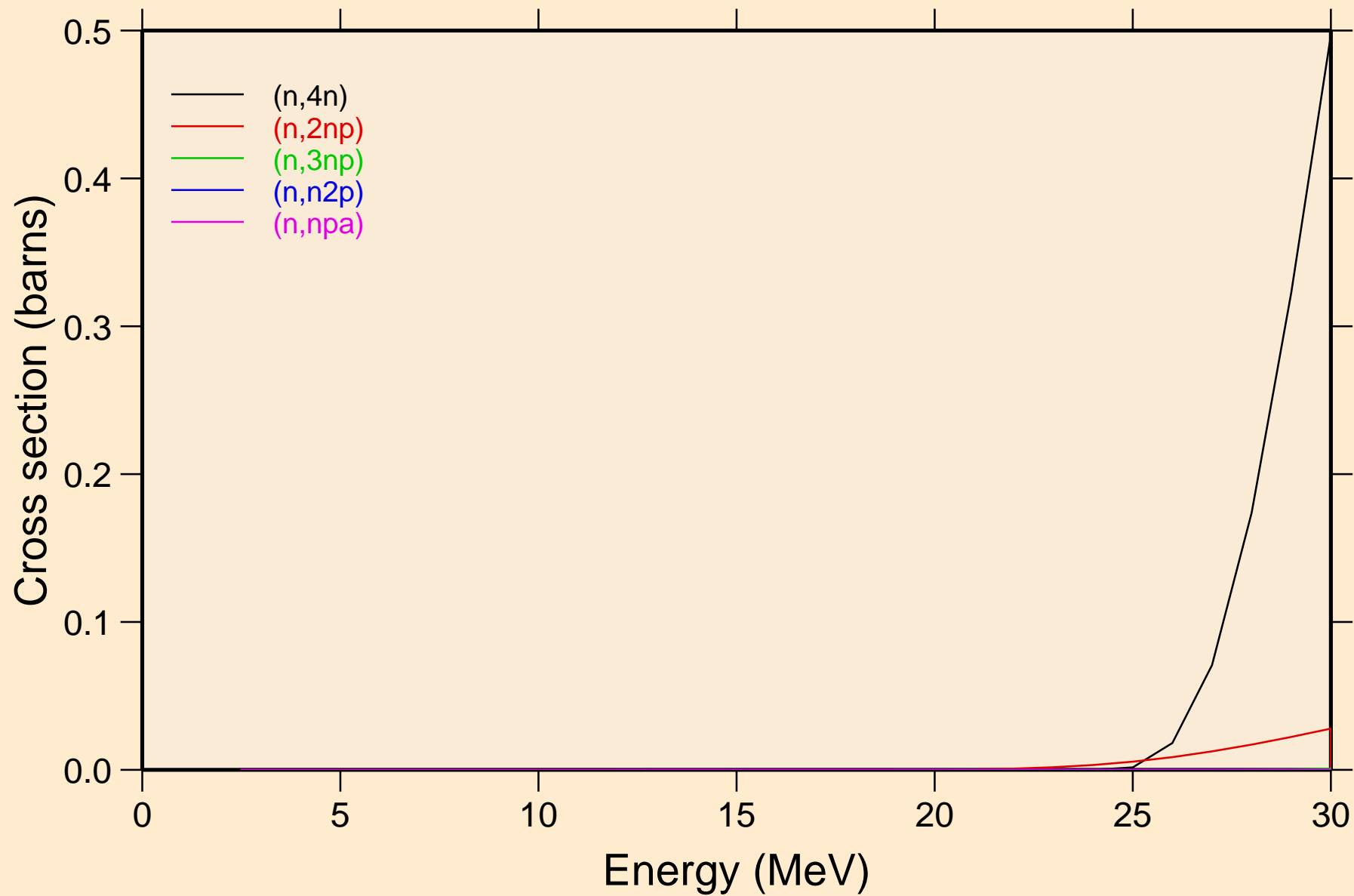
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



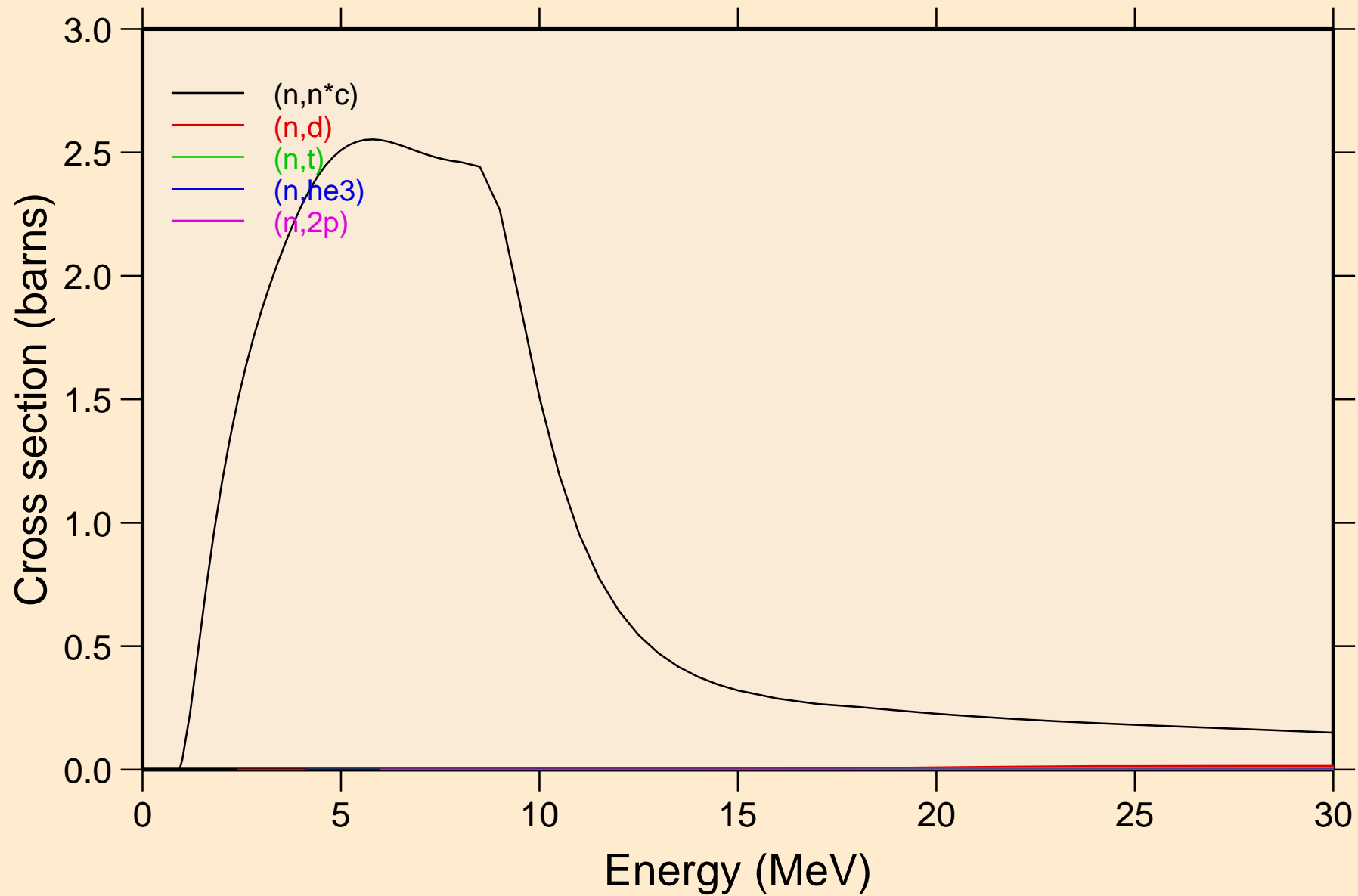
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



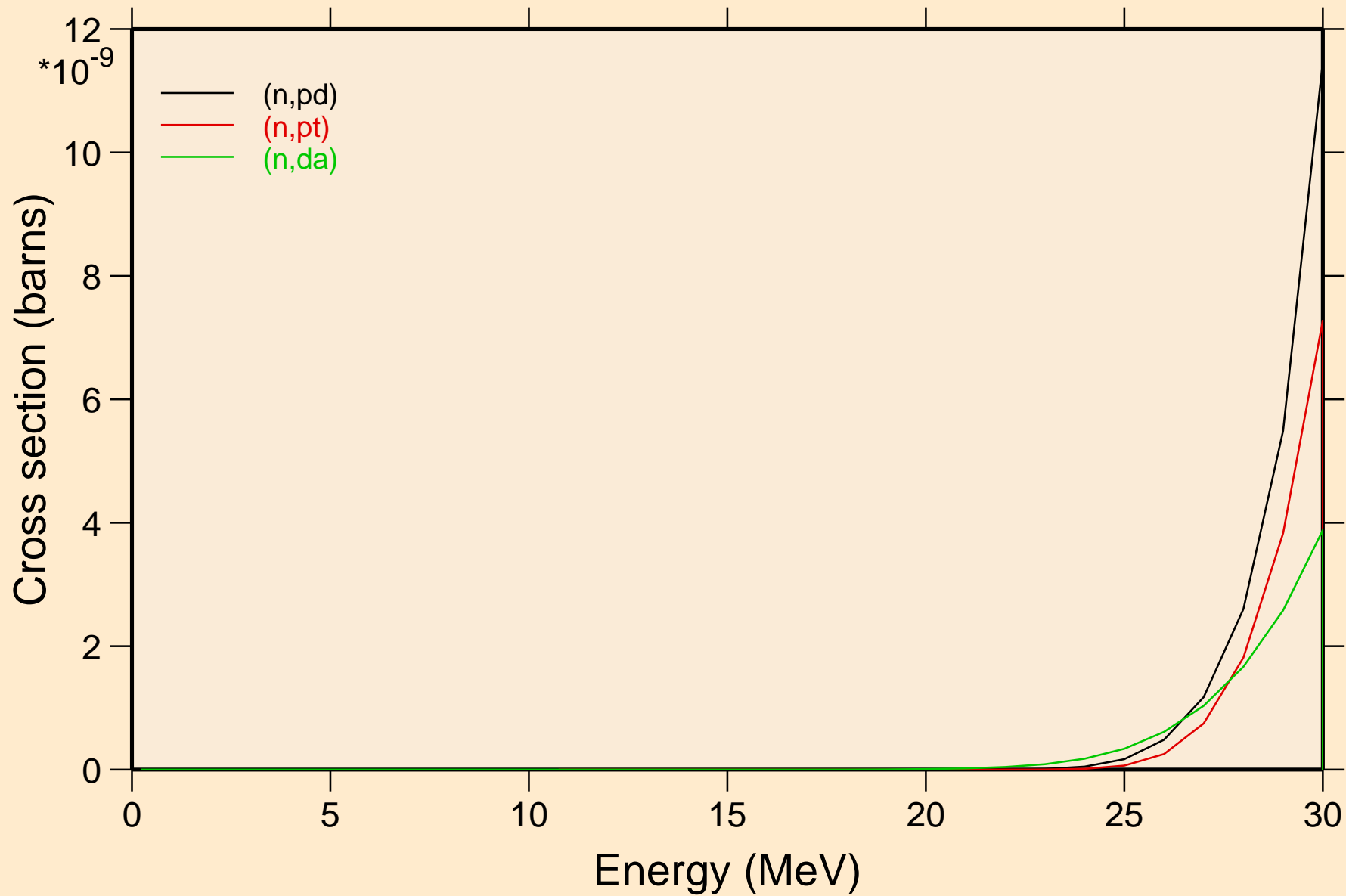
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

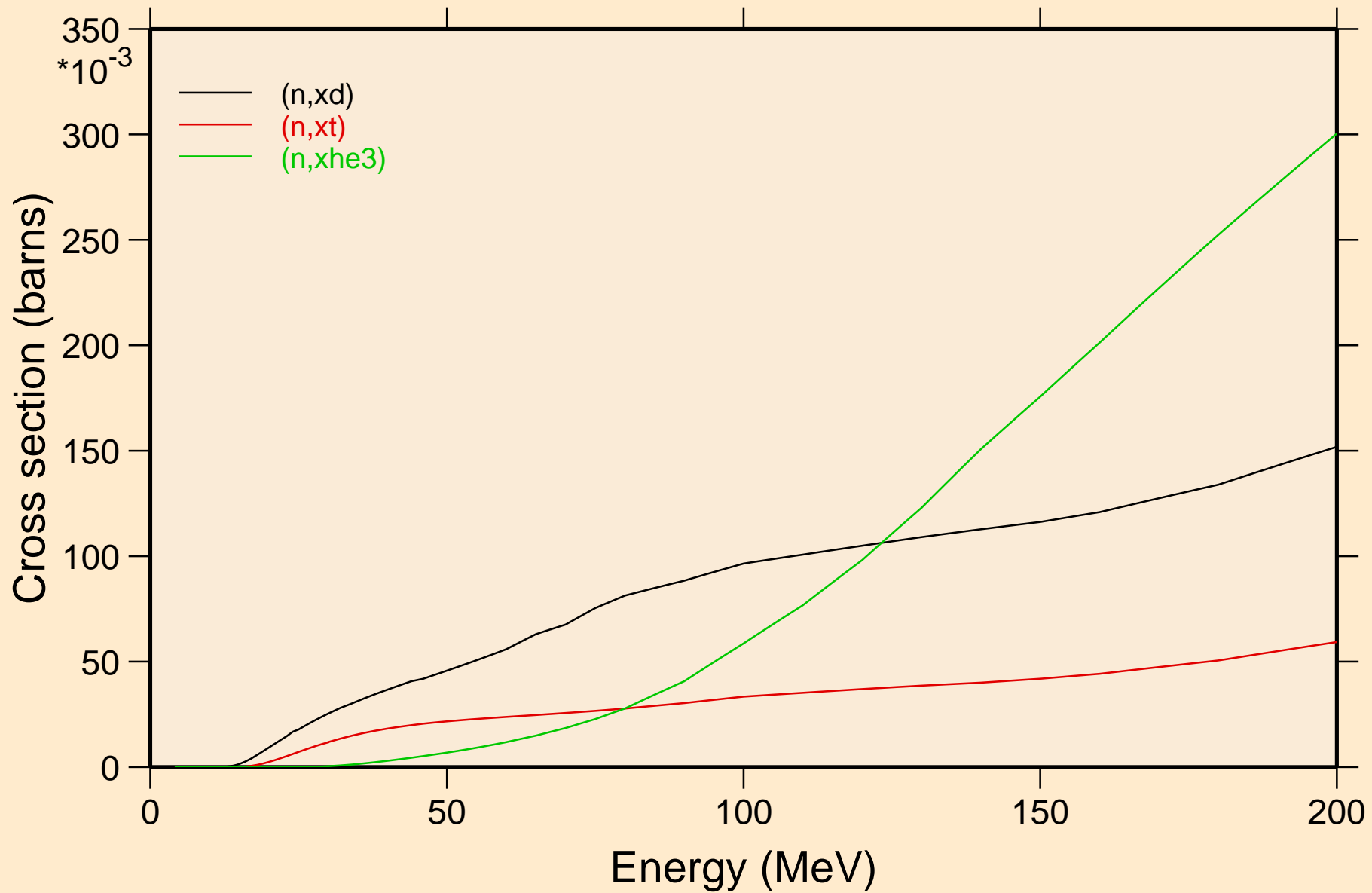


IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

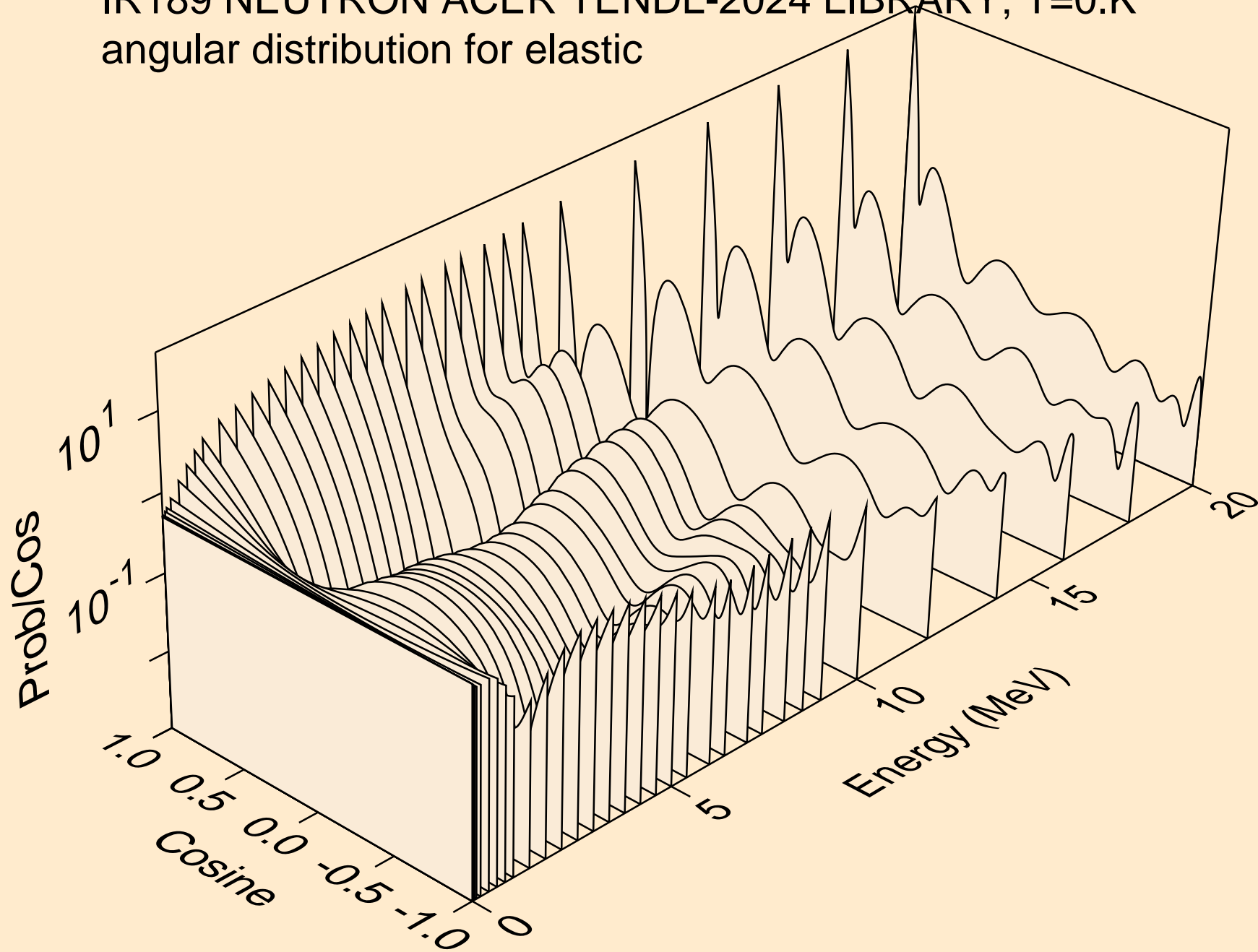


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

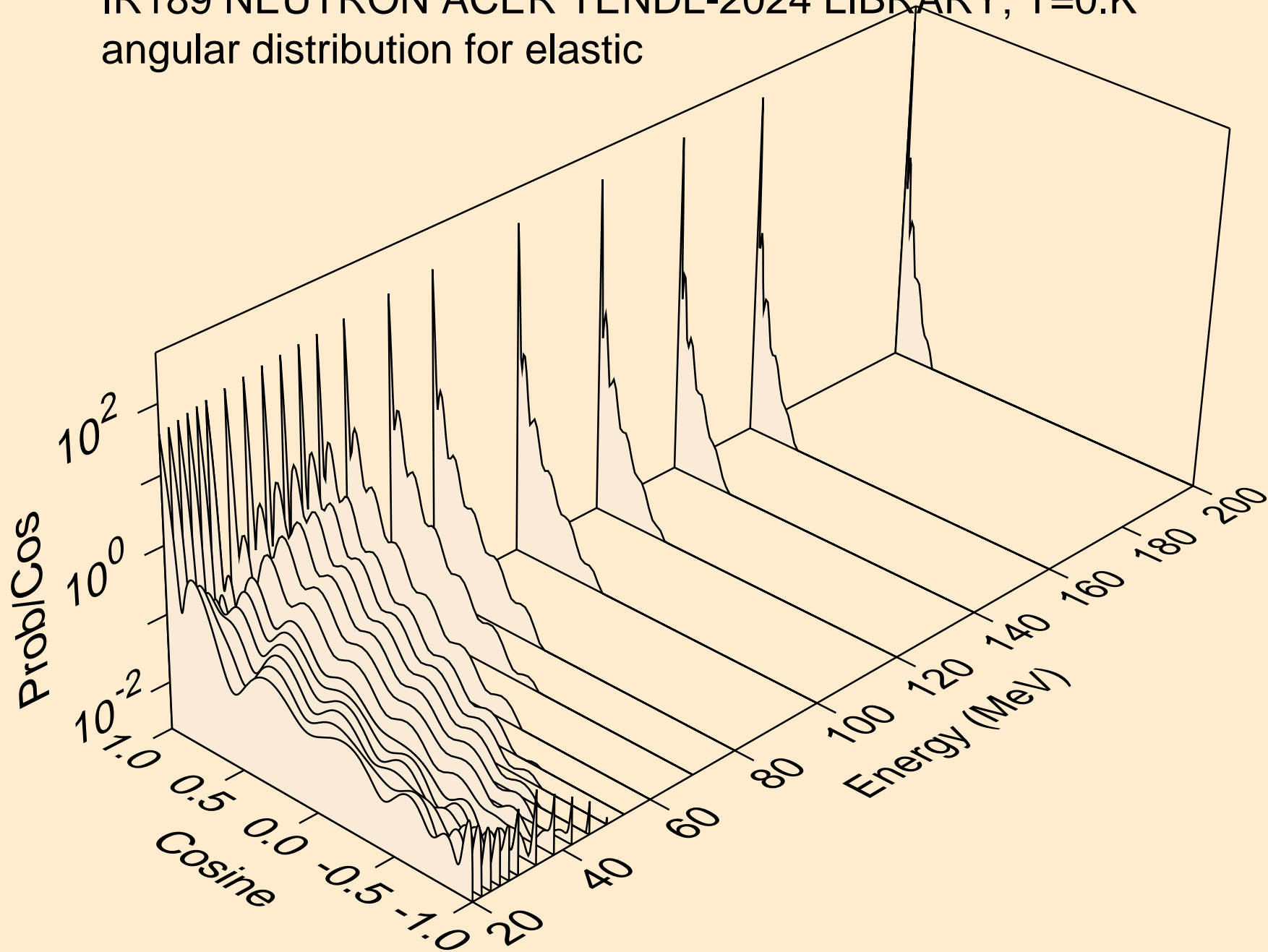
## Threshold reactions



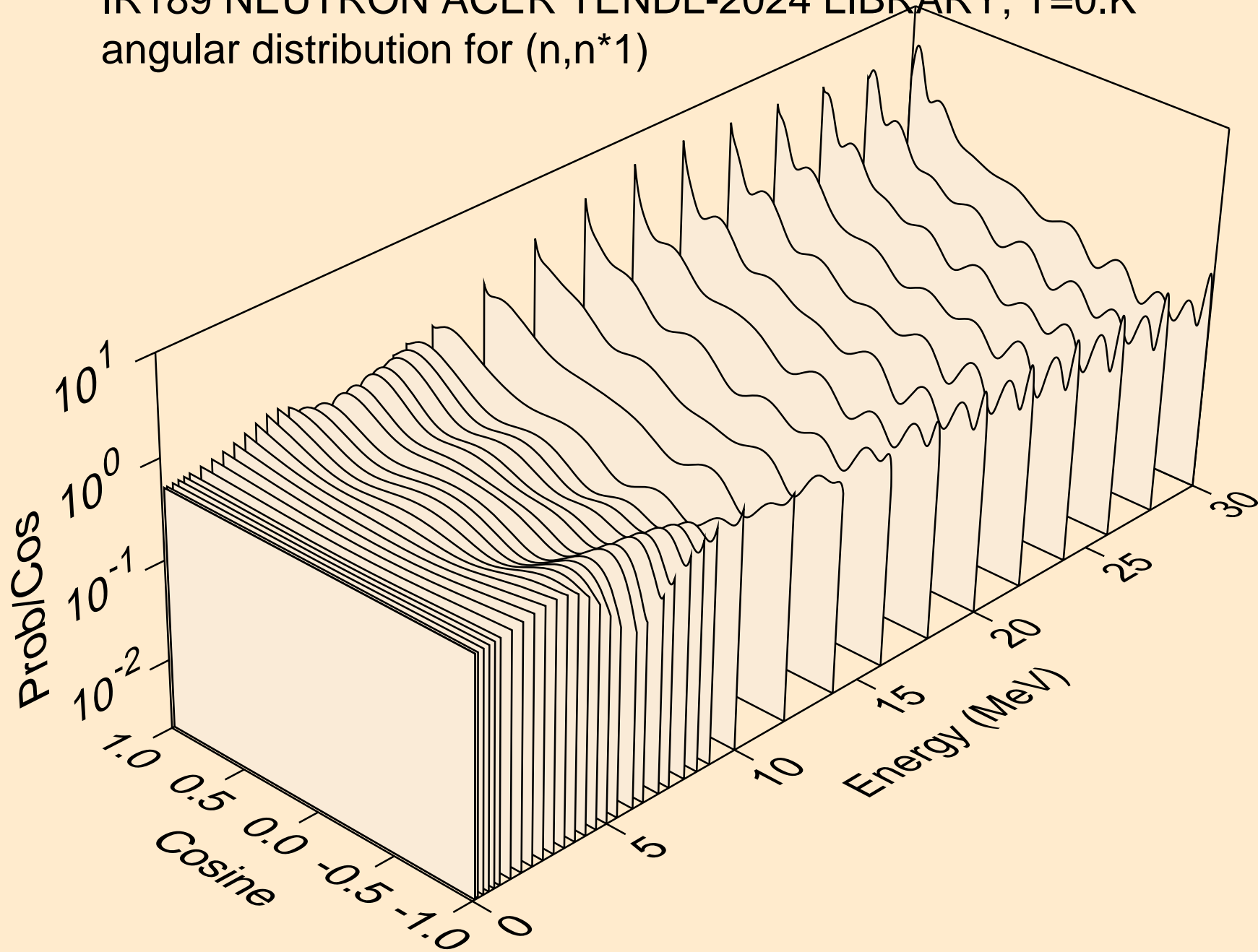
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



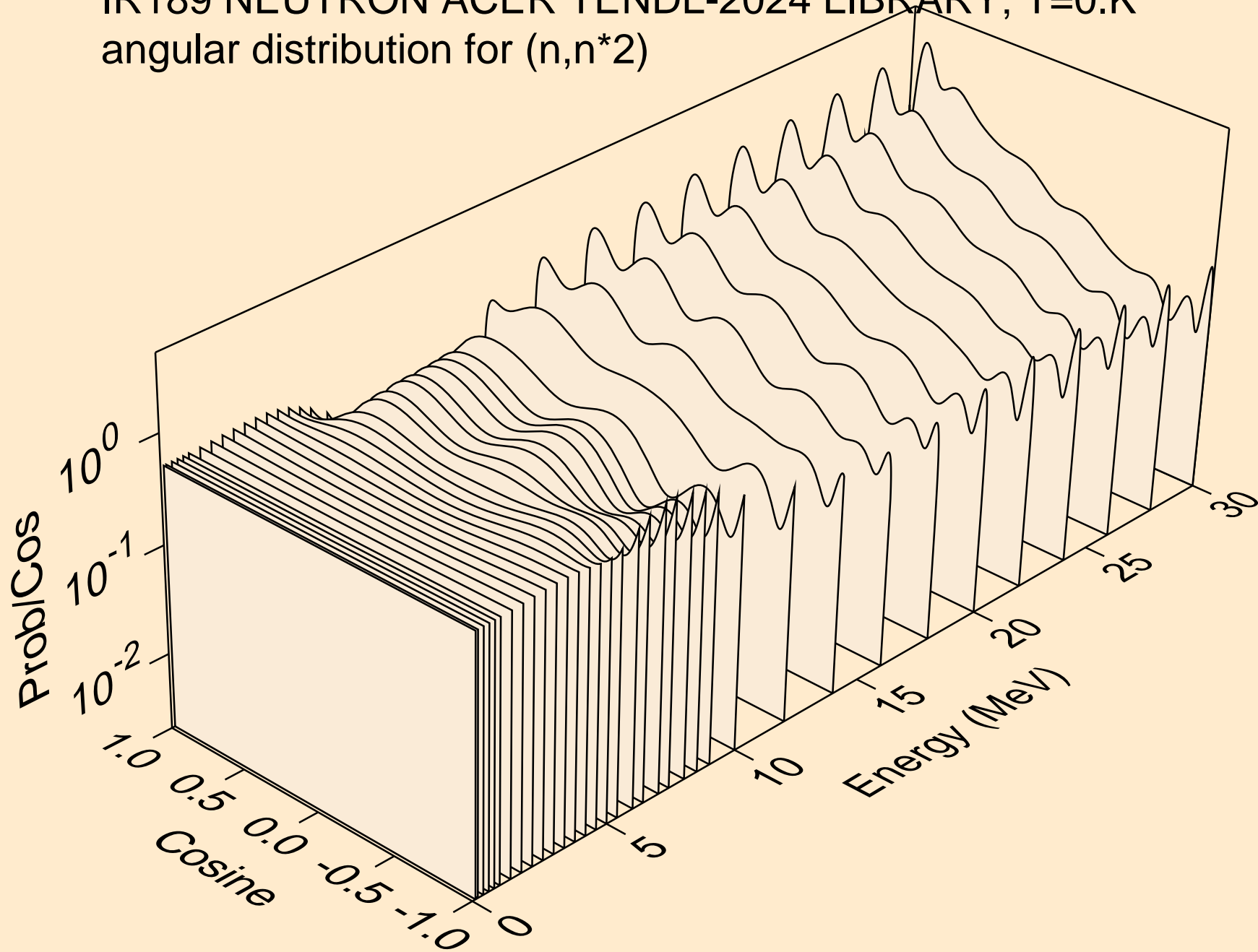
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



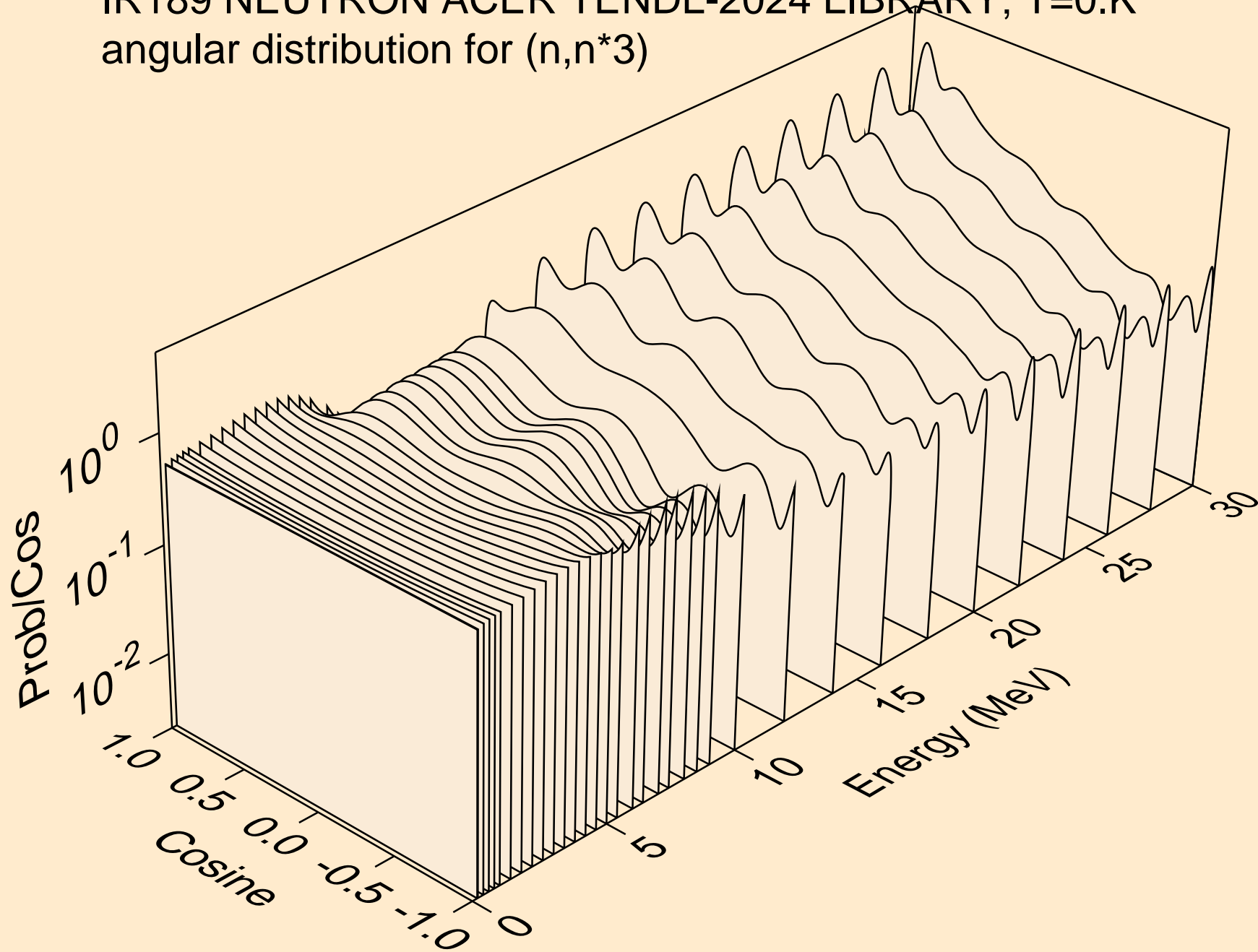
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



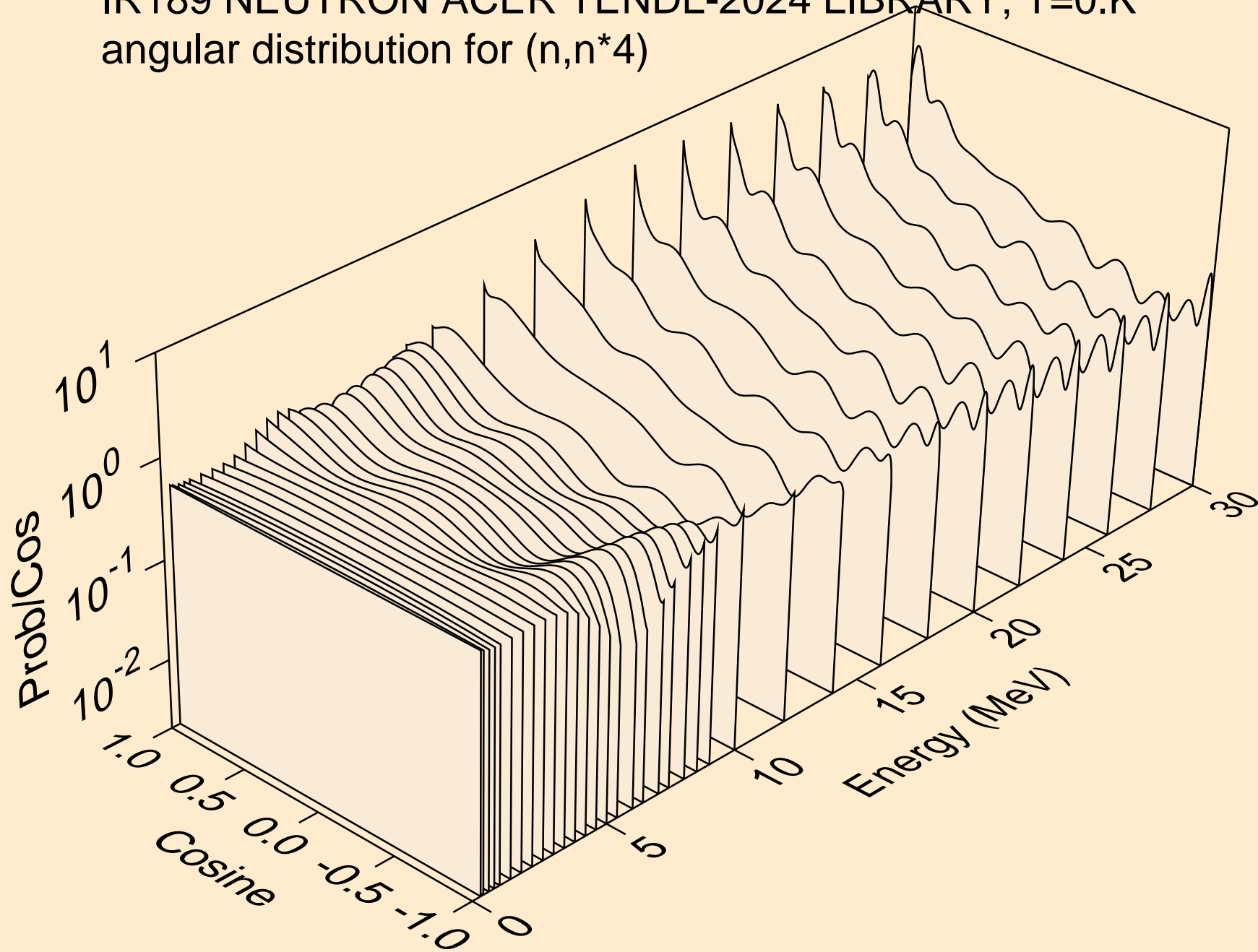
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



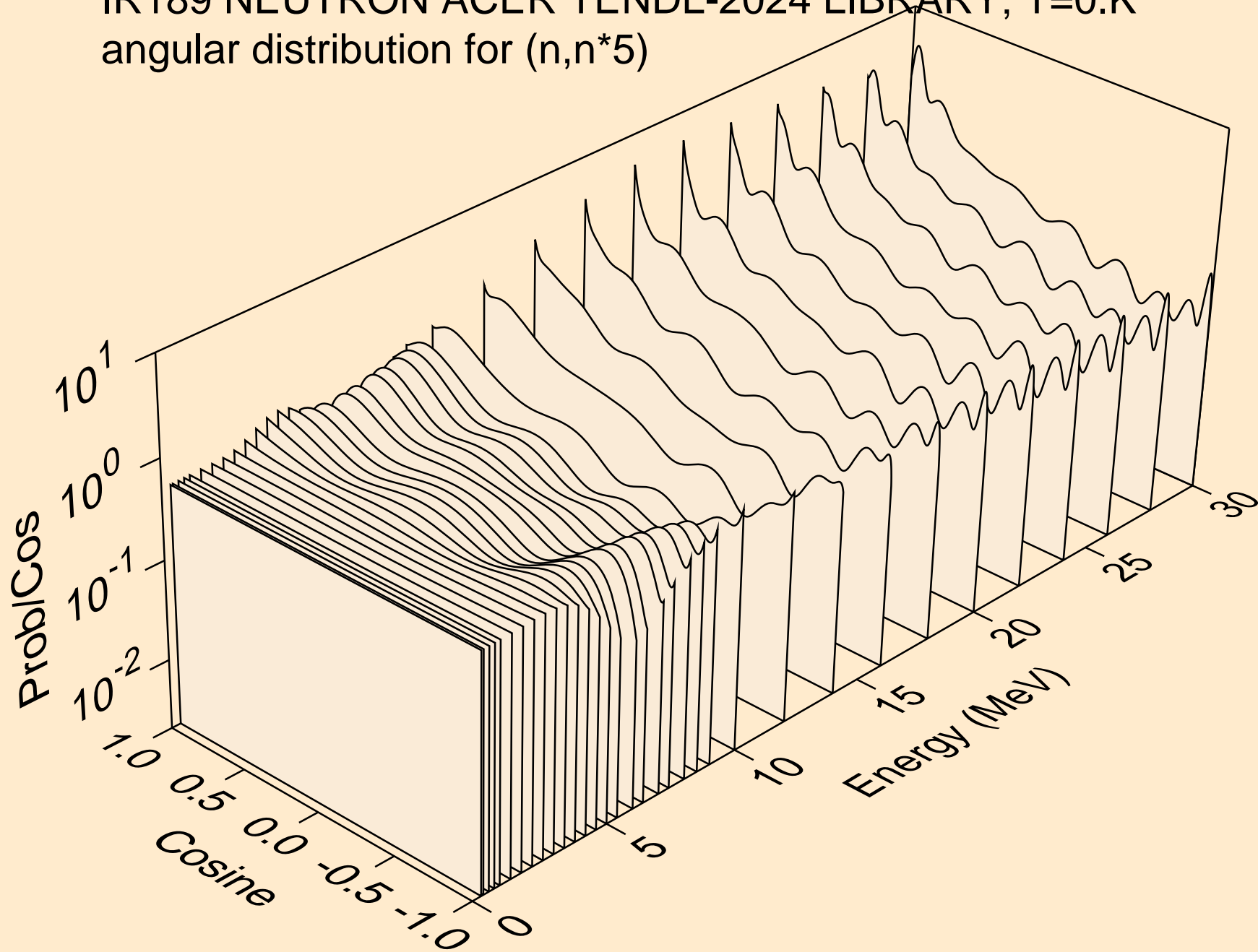
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



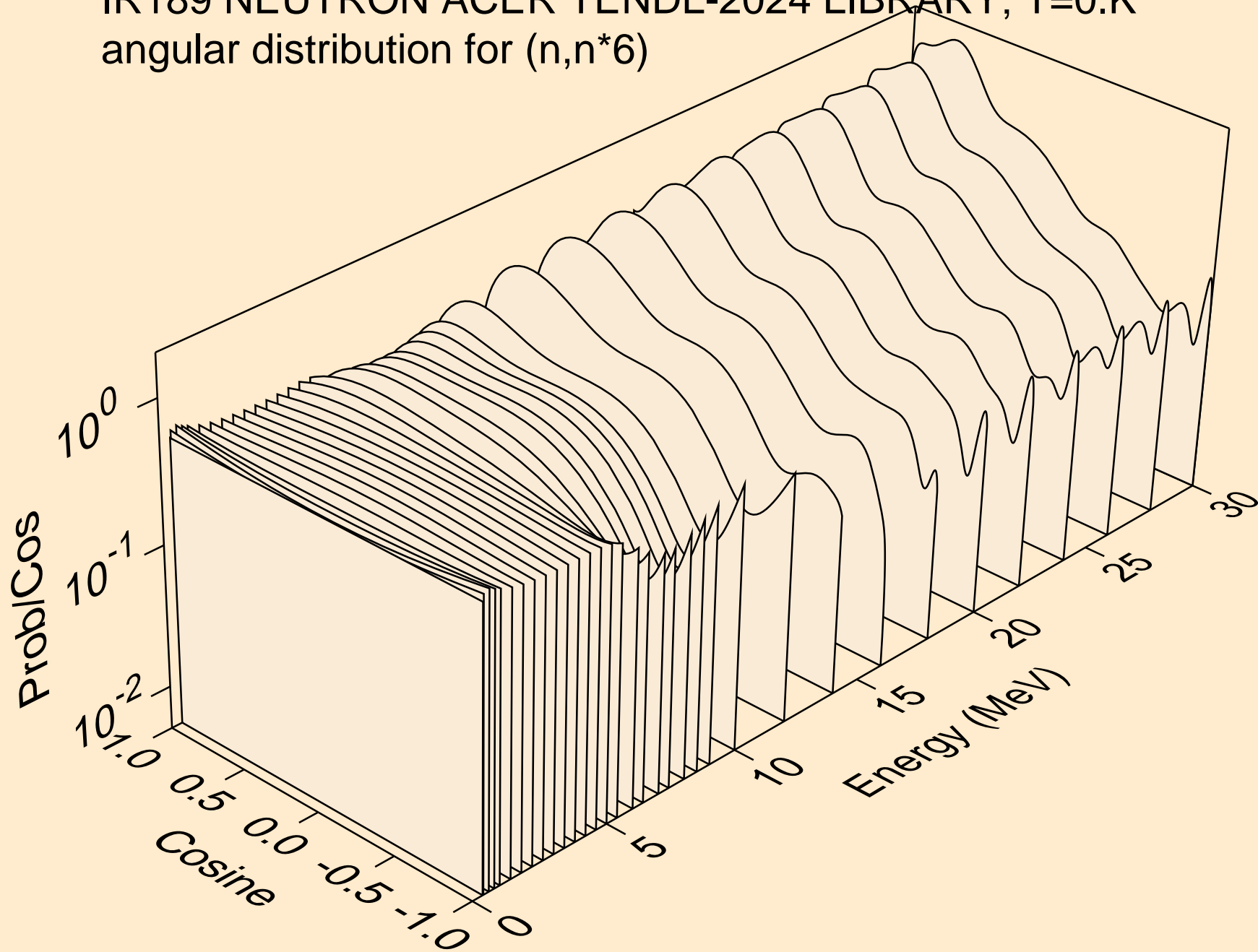
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



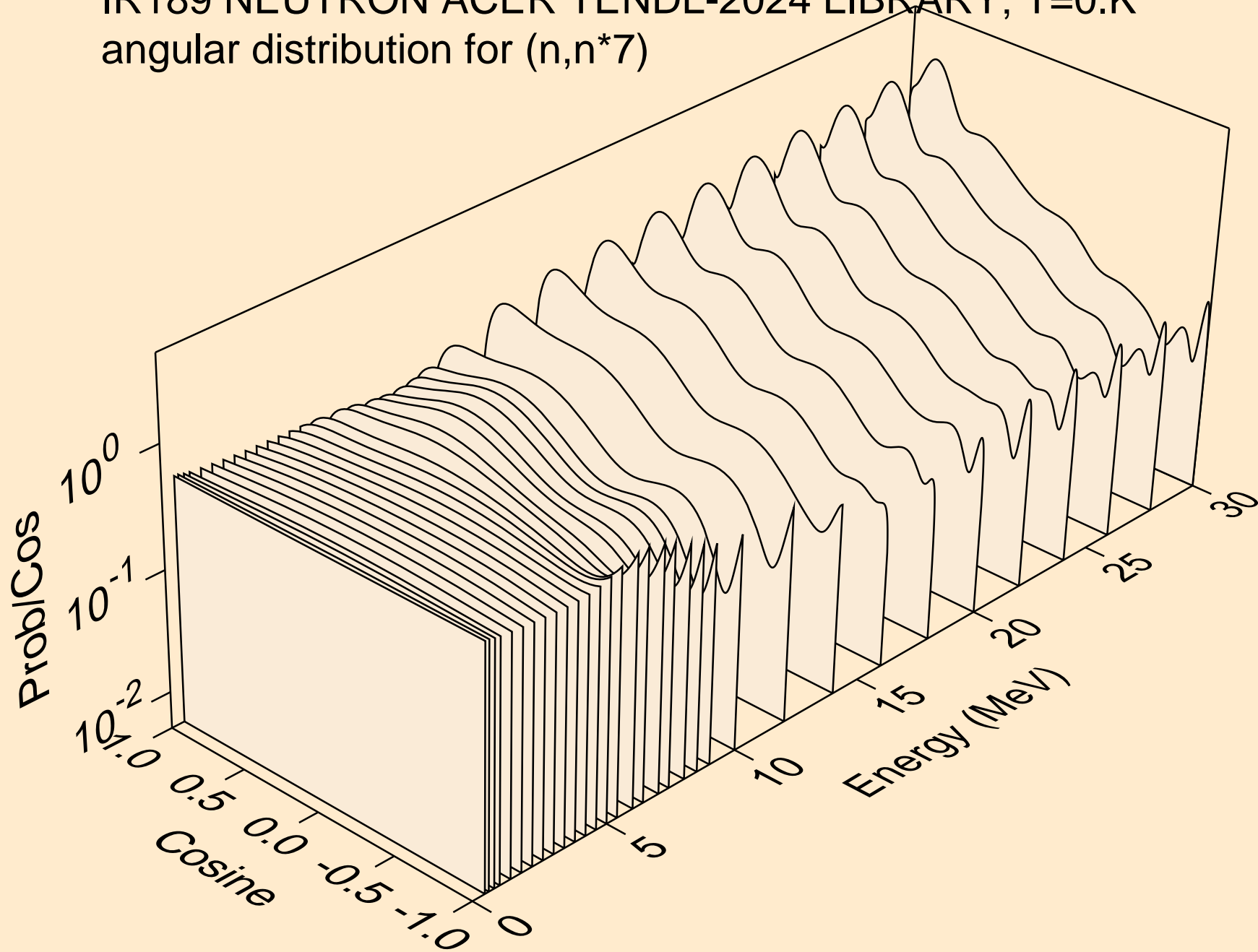
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



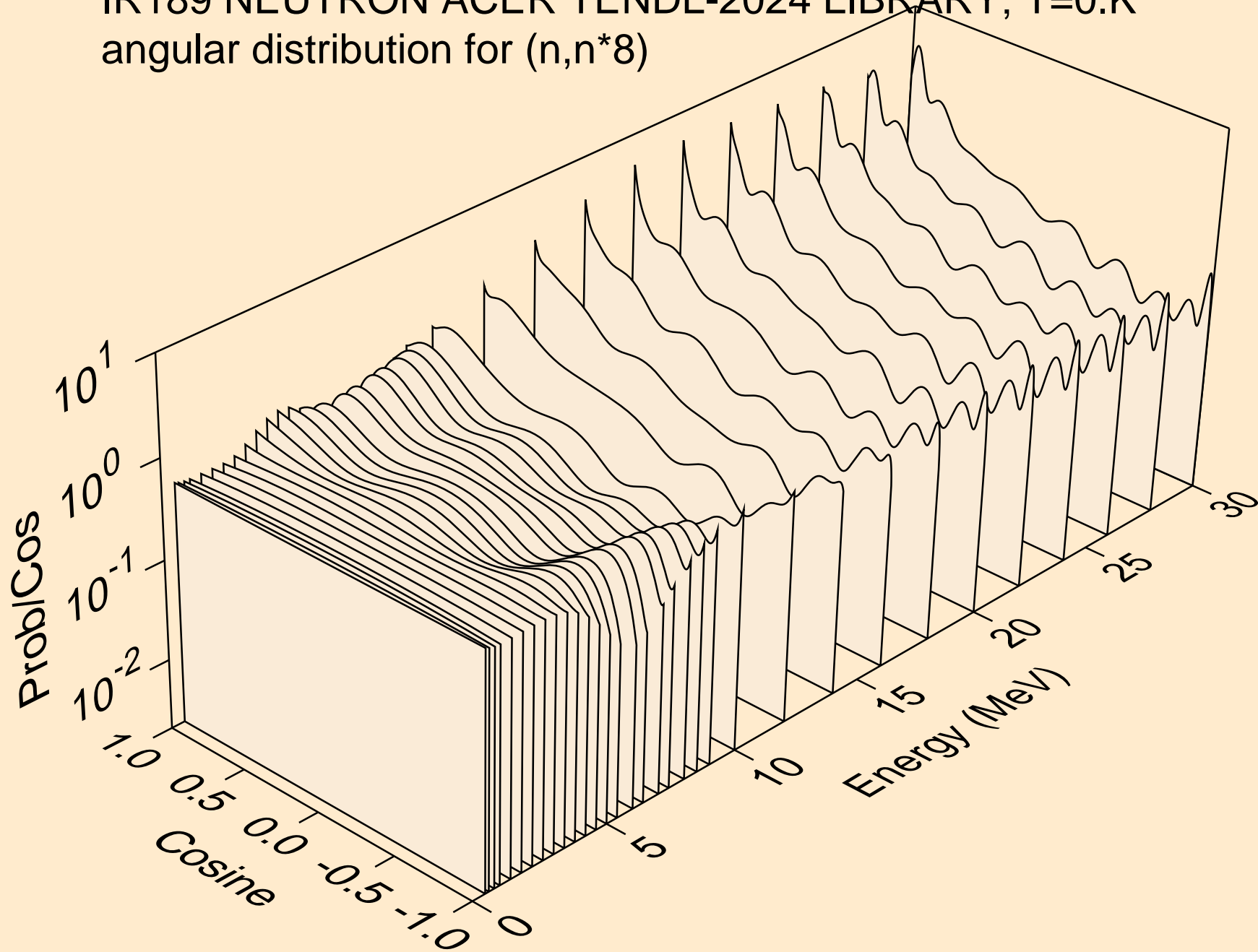
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



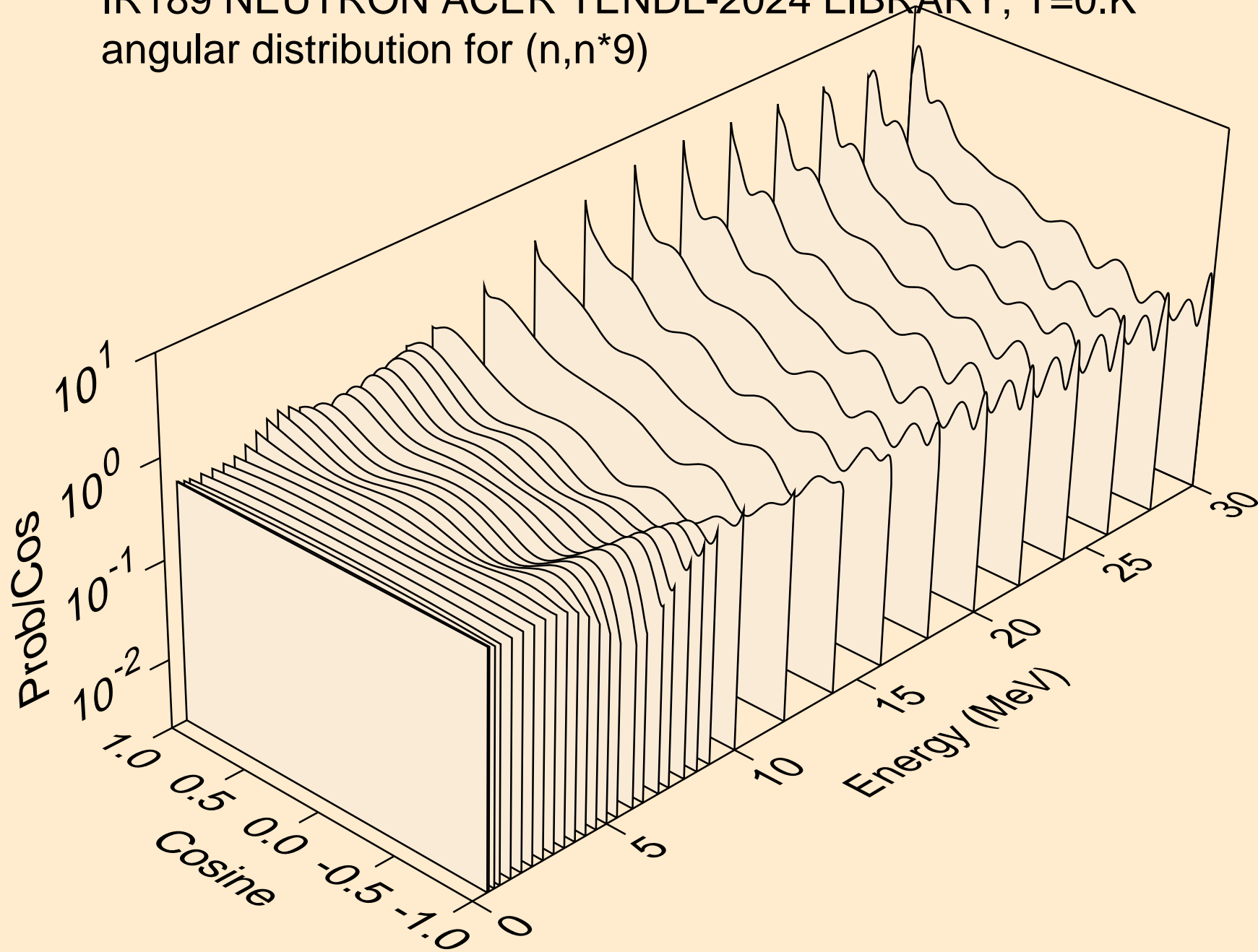
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



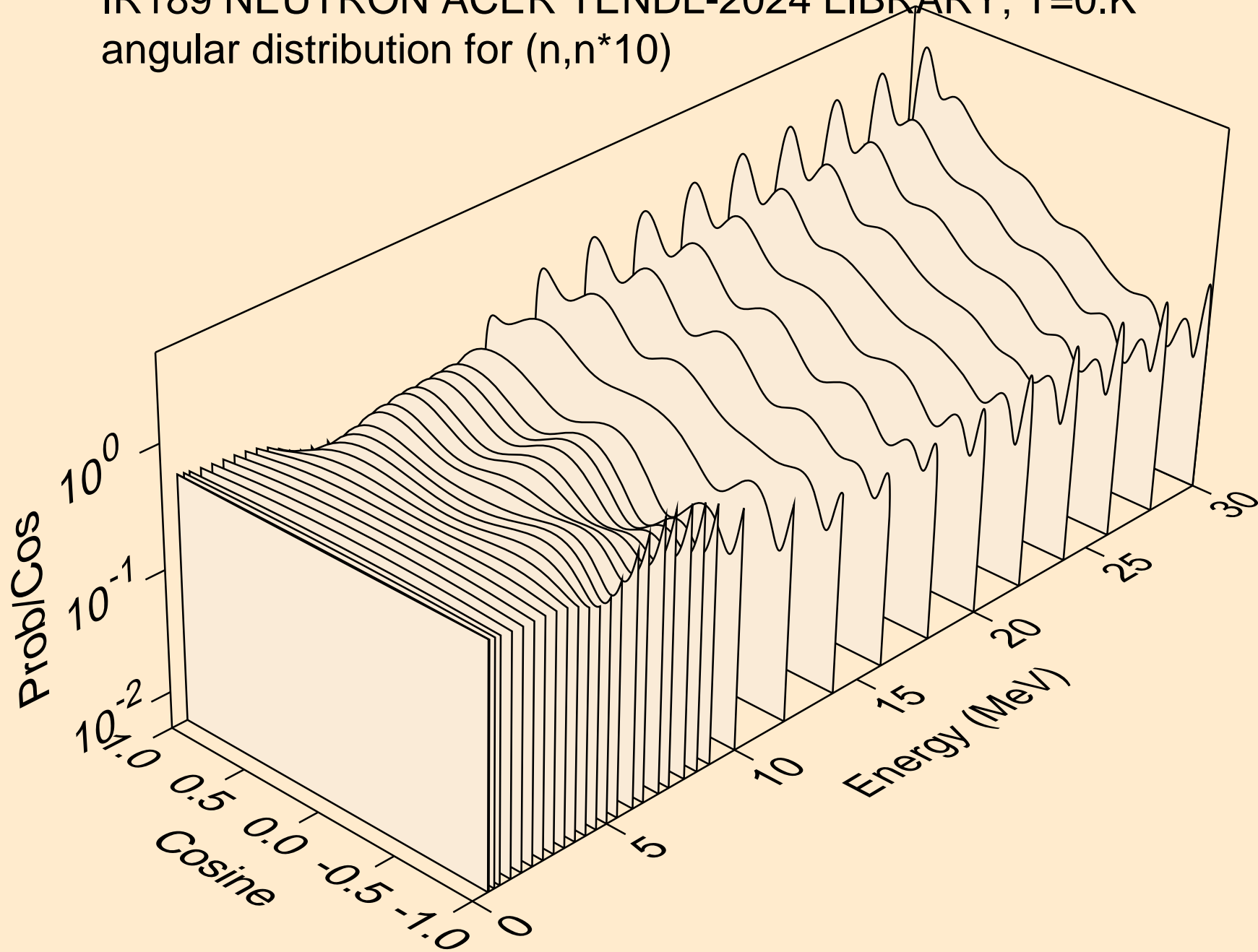
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



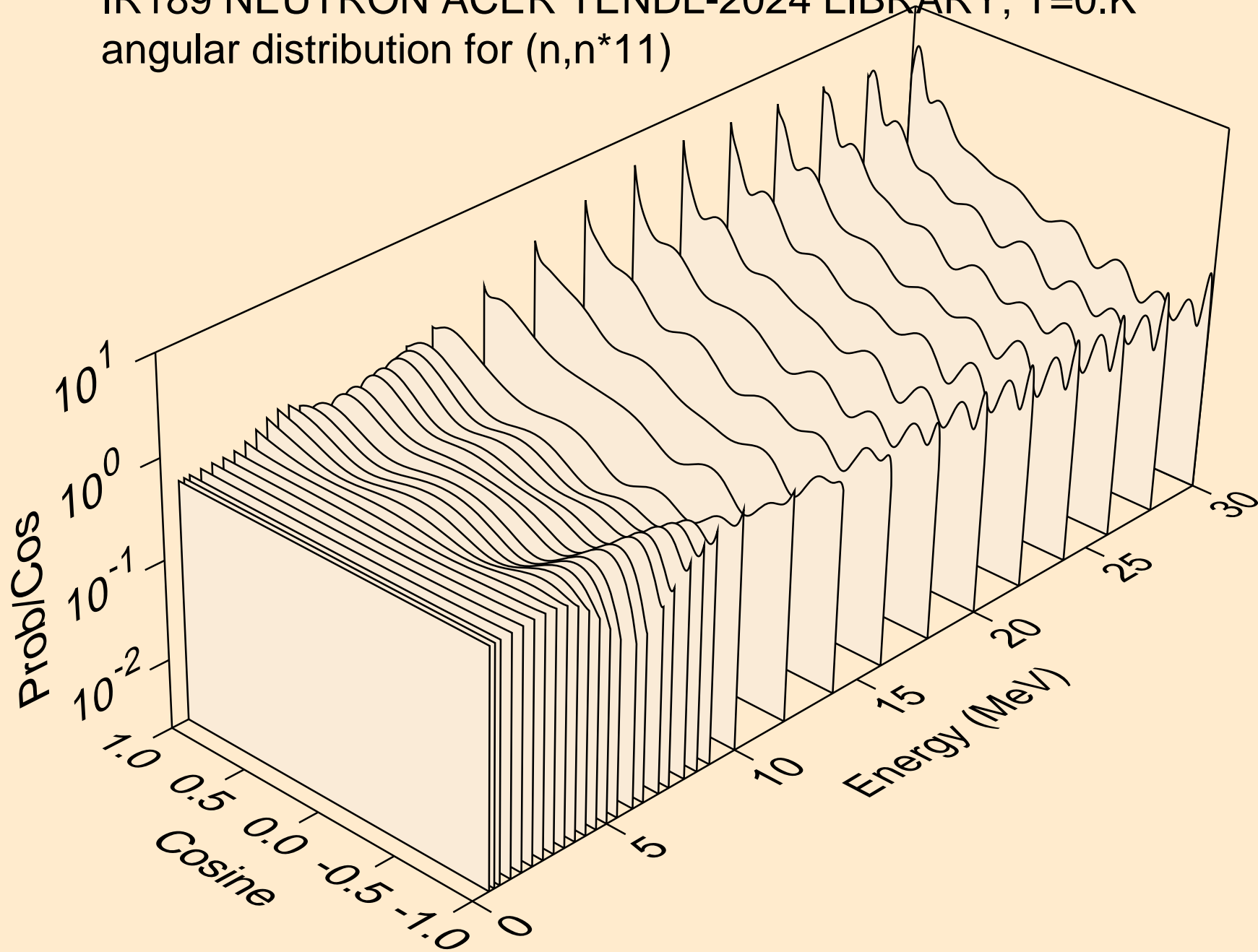
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



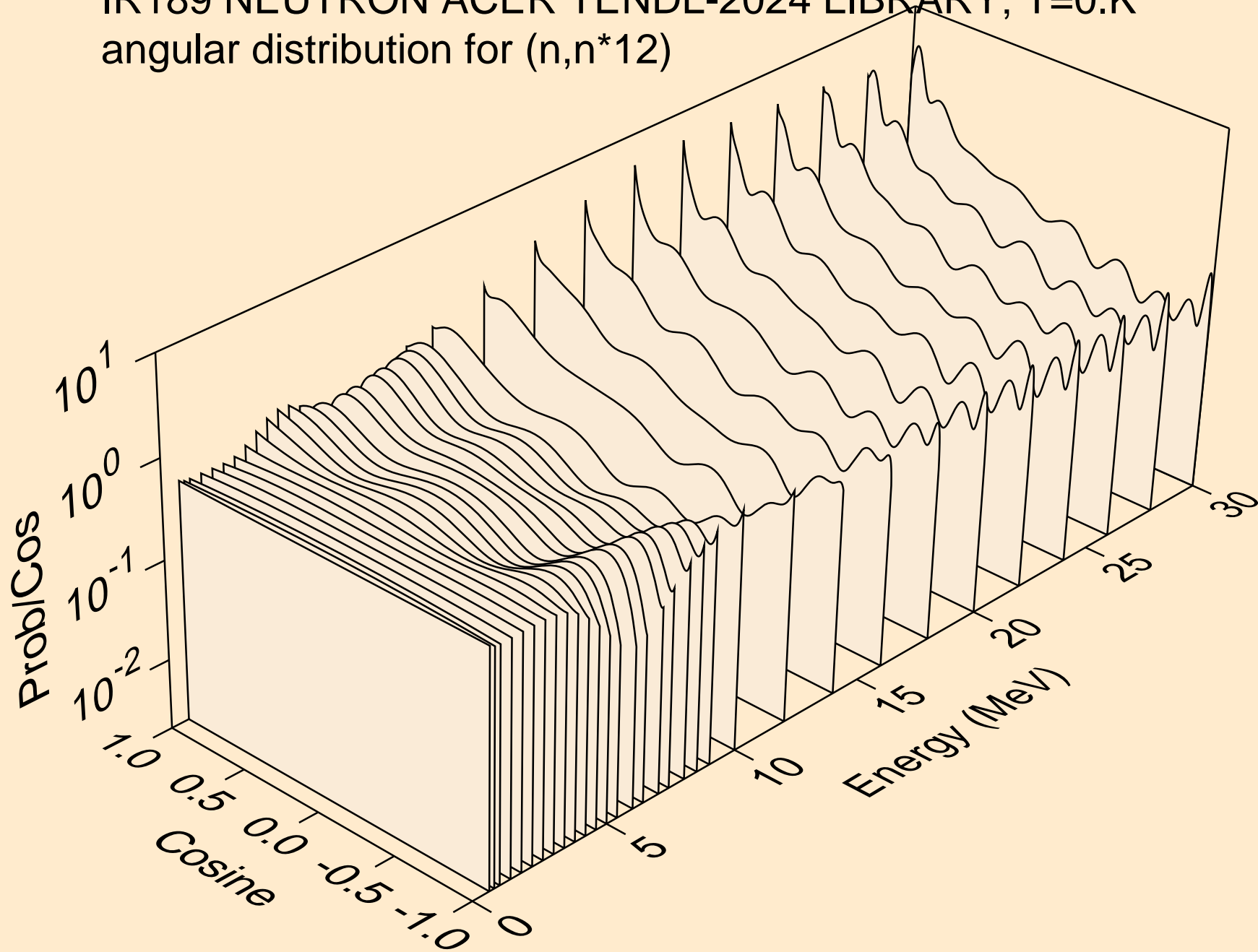
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



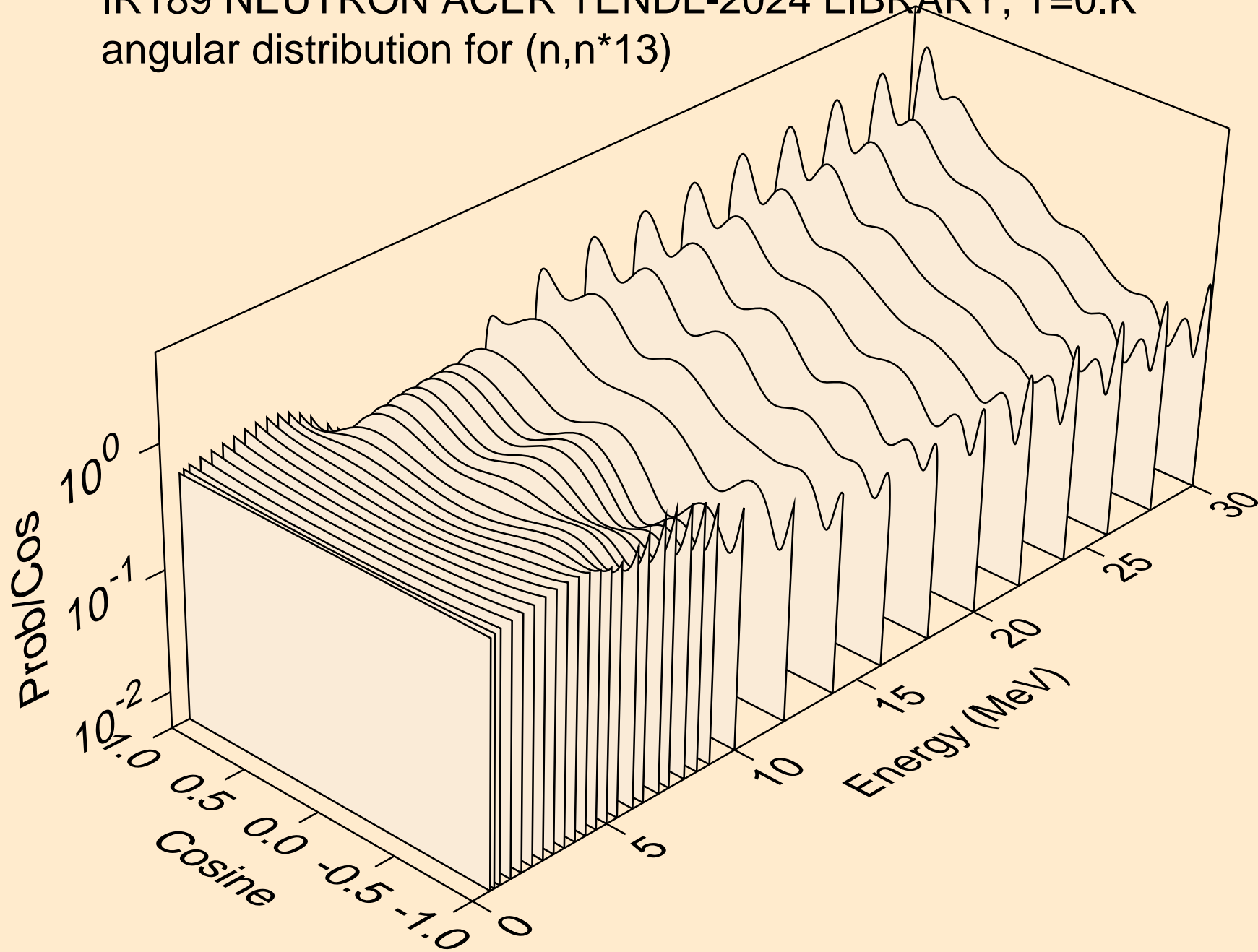
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



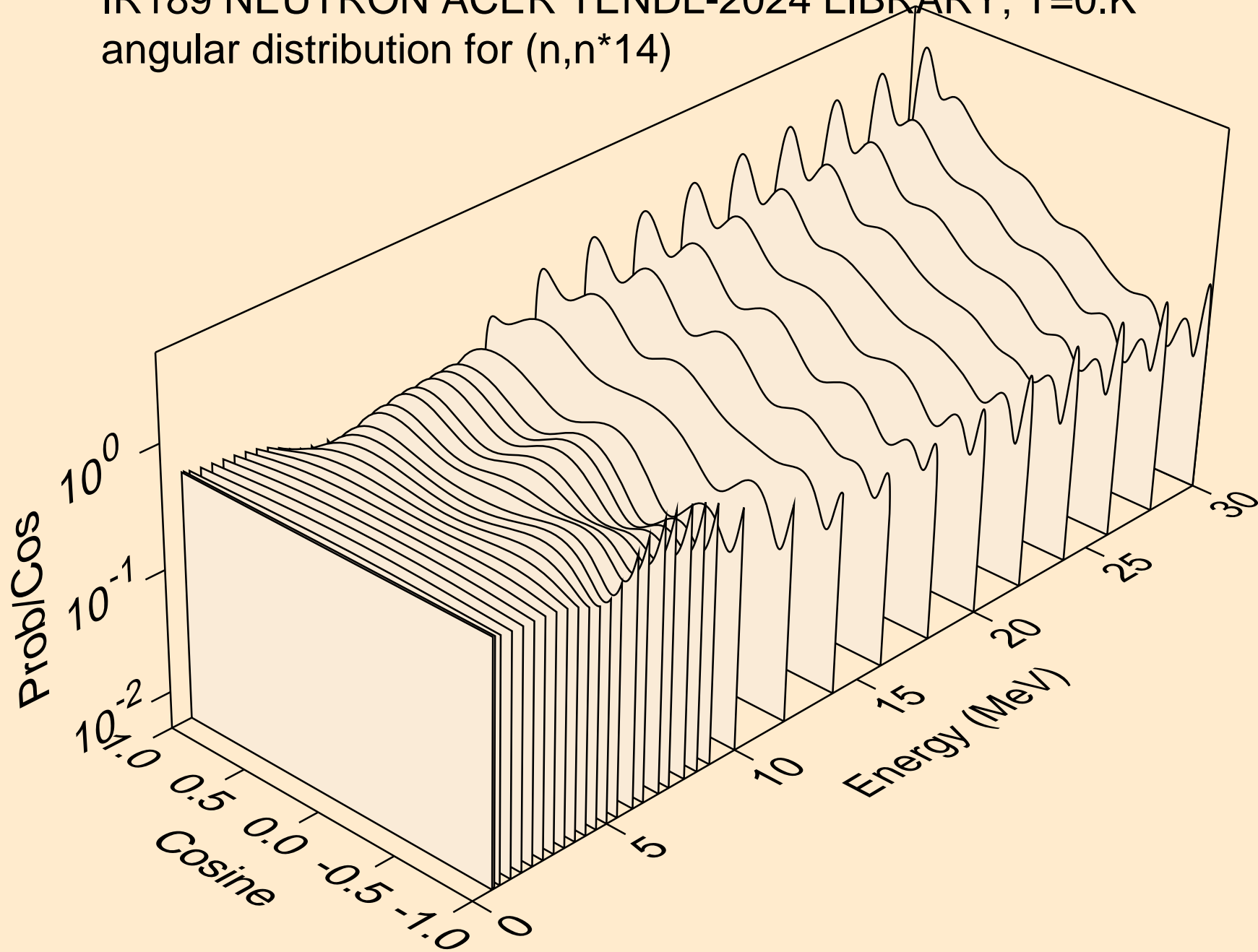
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



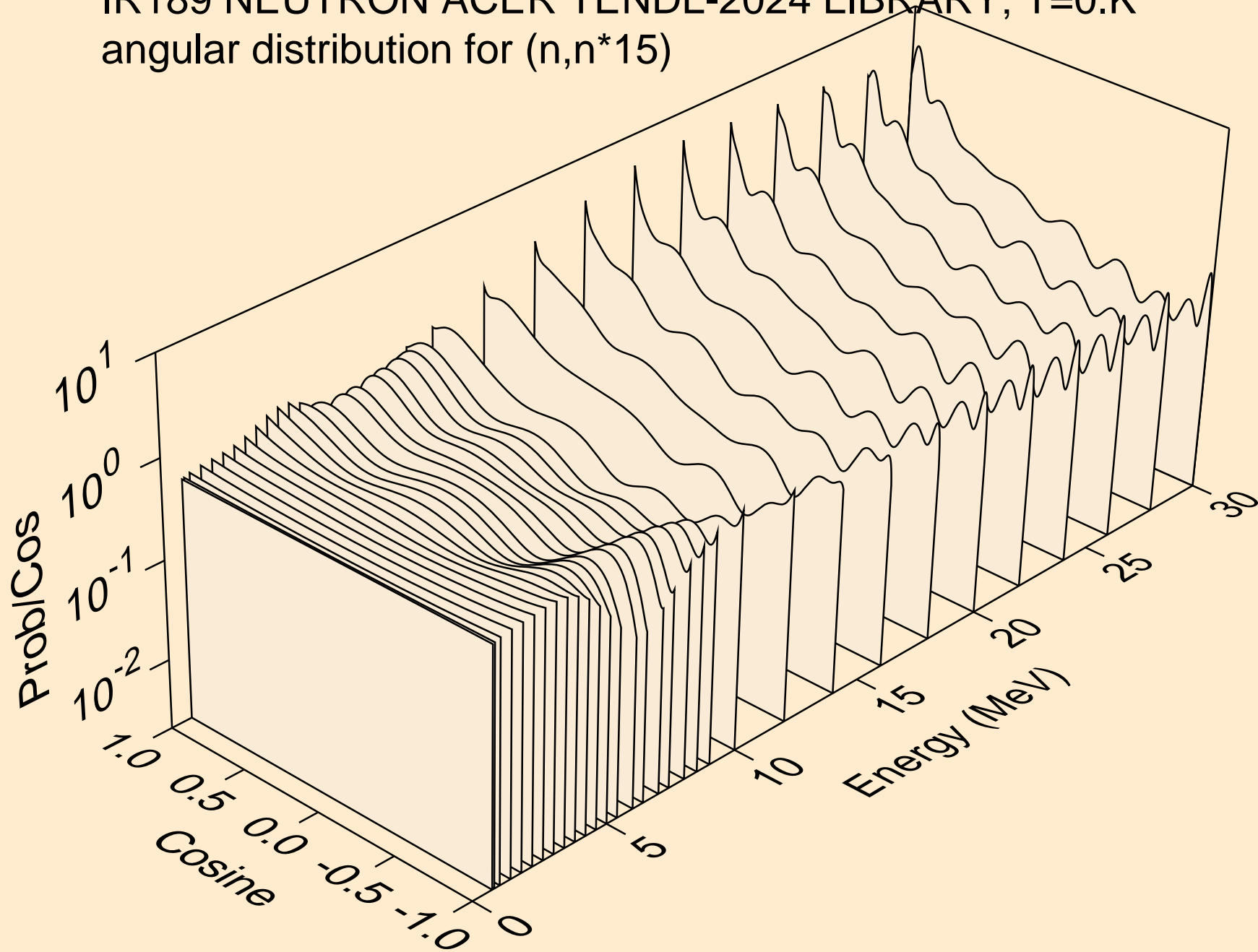
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



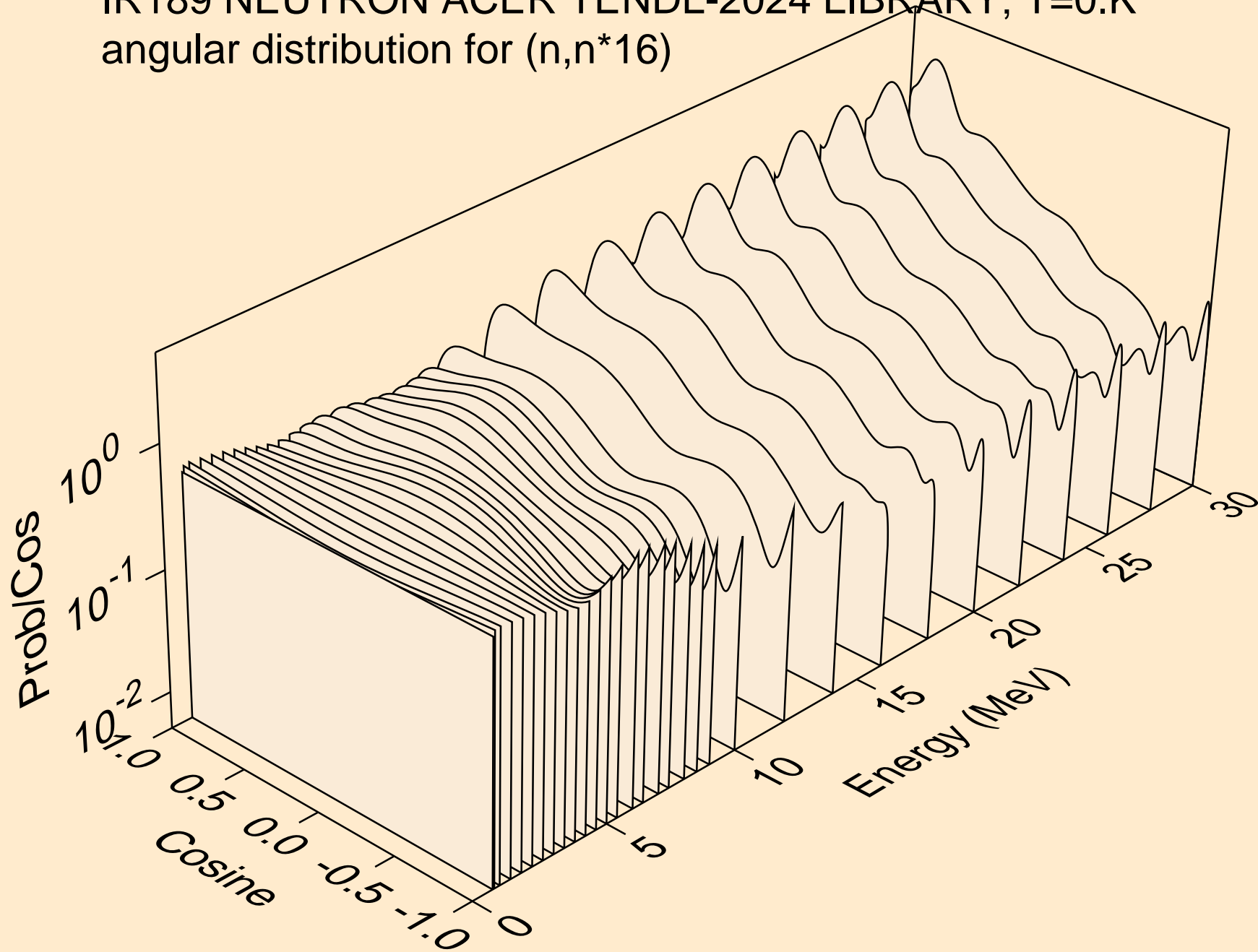
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



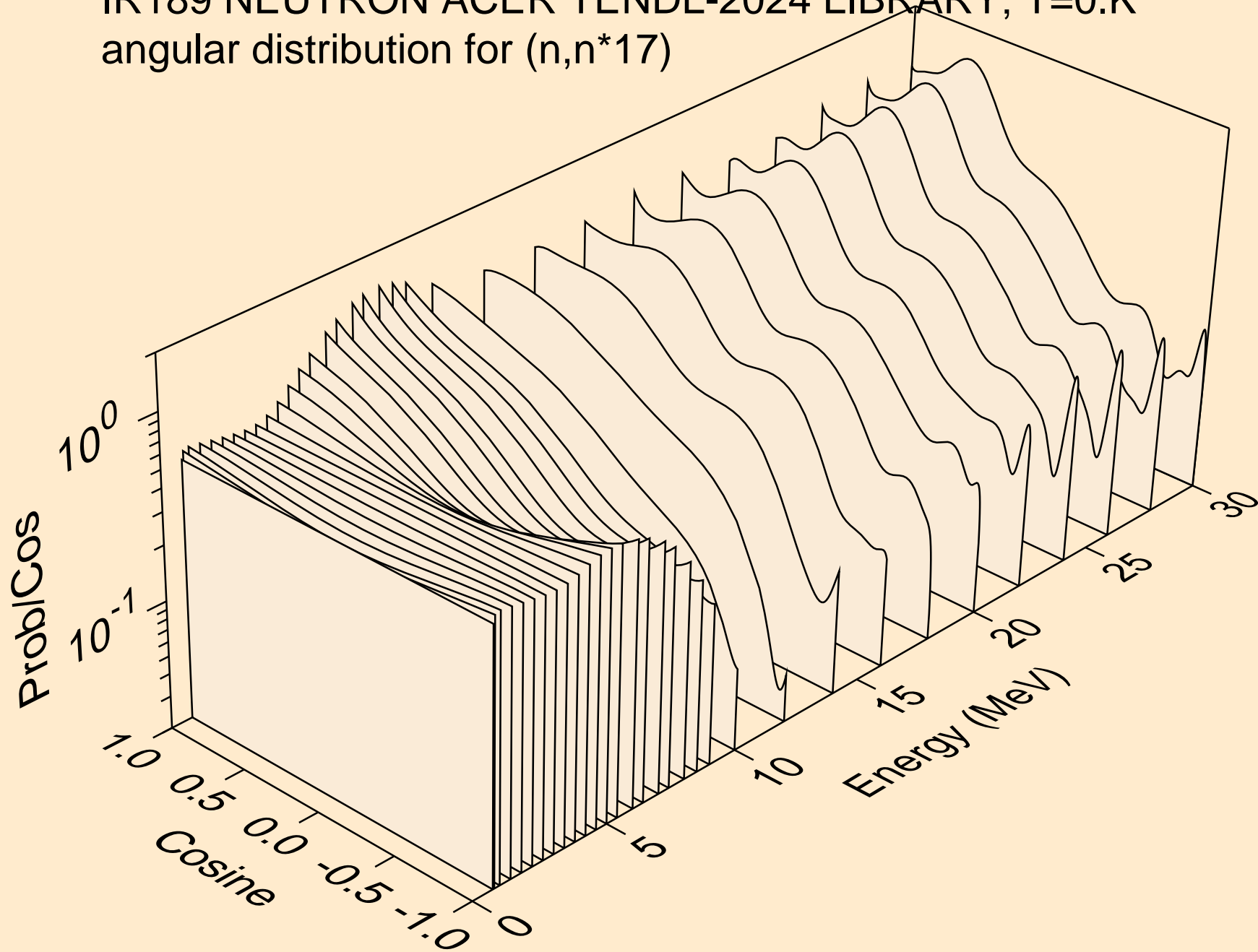
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



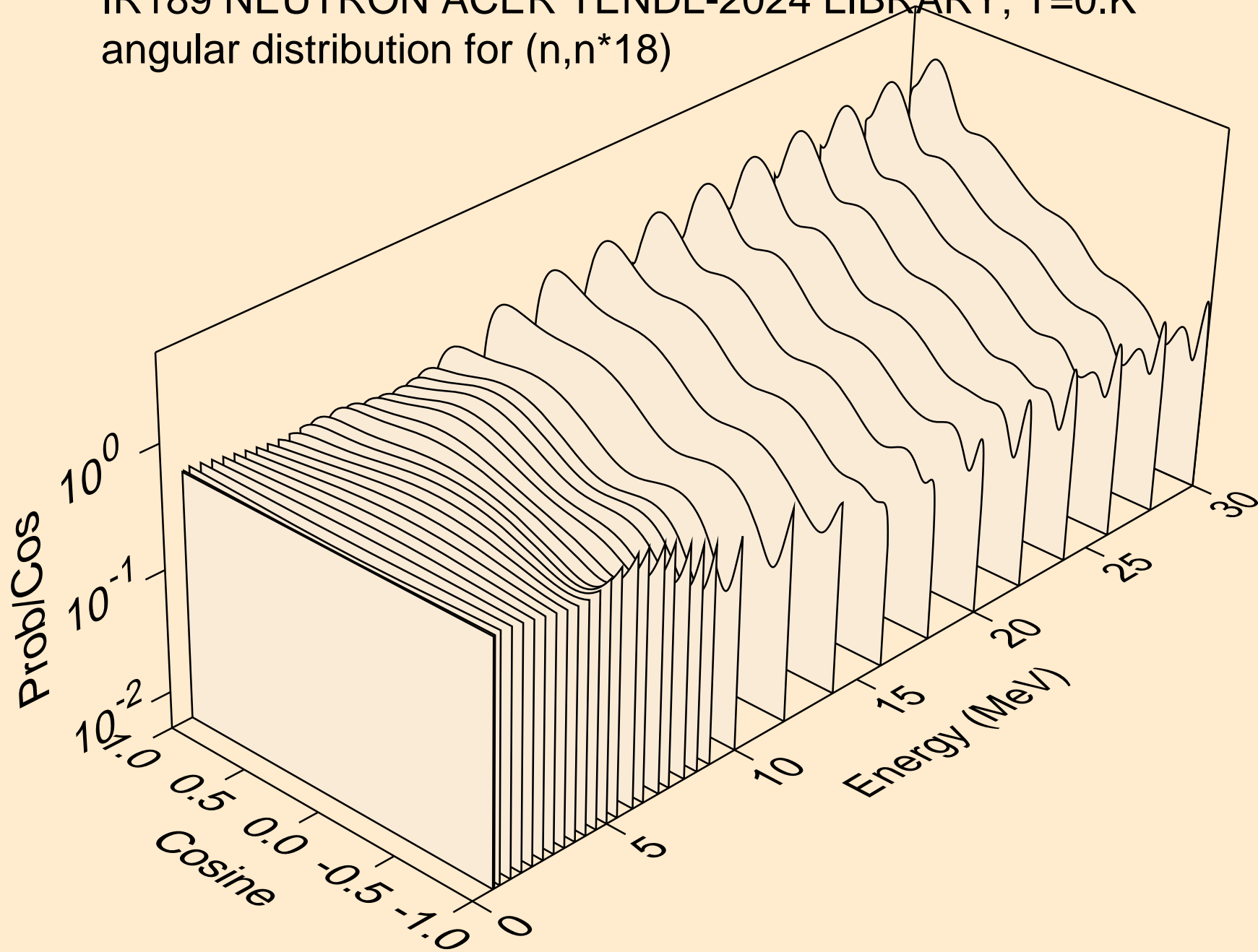
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



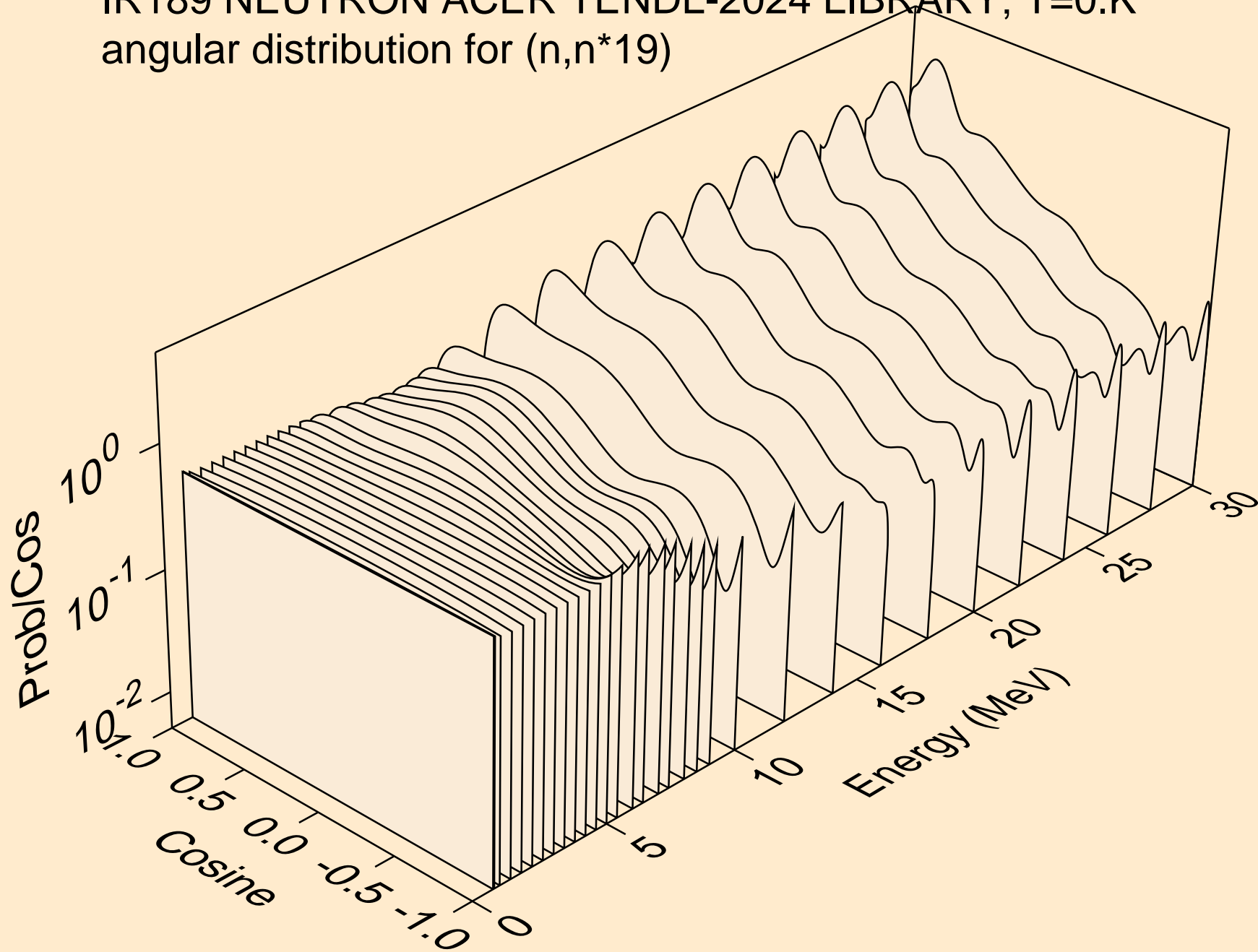
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



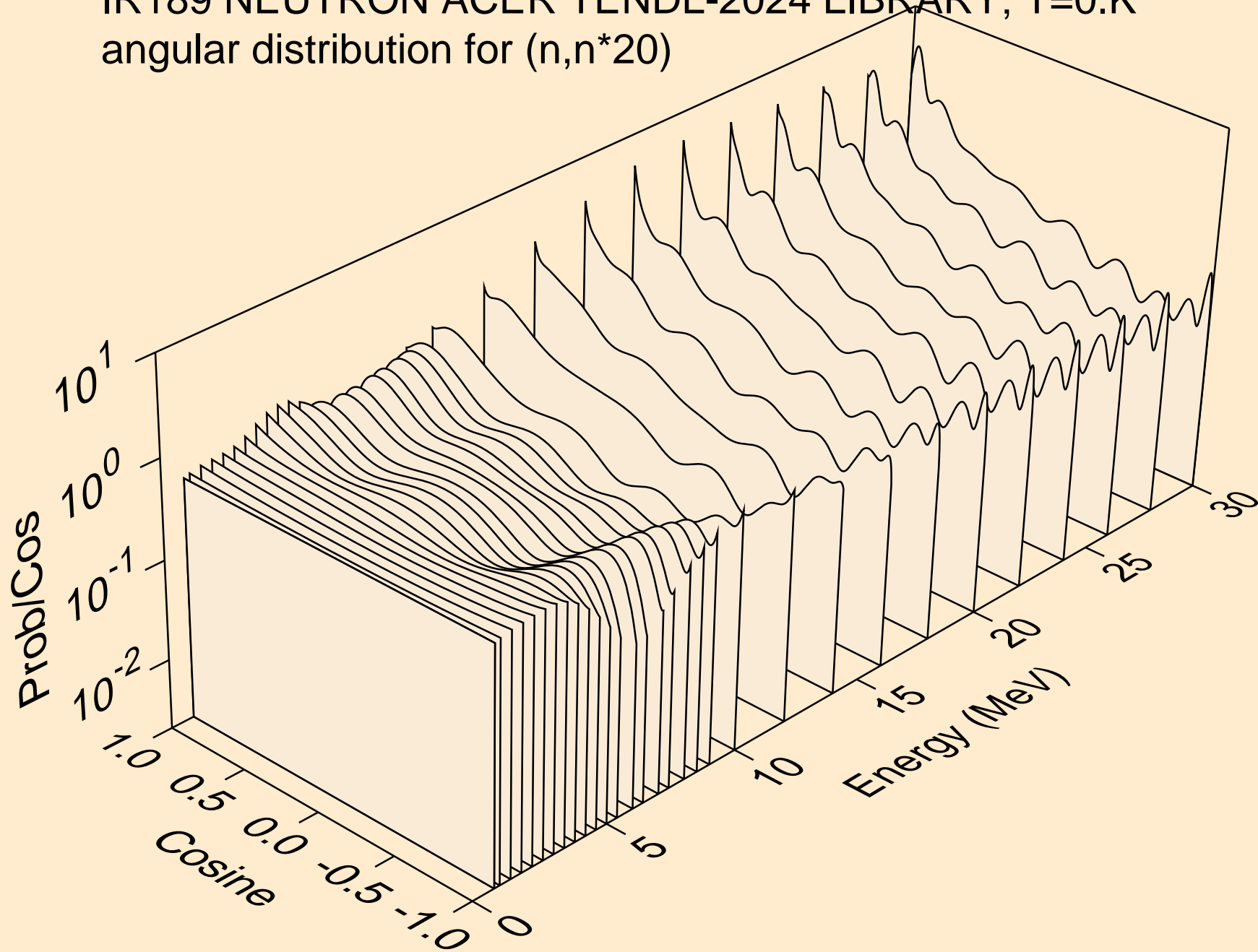
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angular distribution for (n,n\*18)



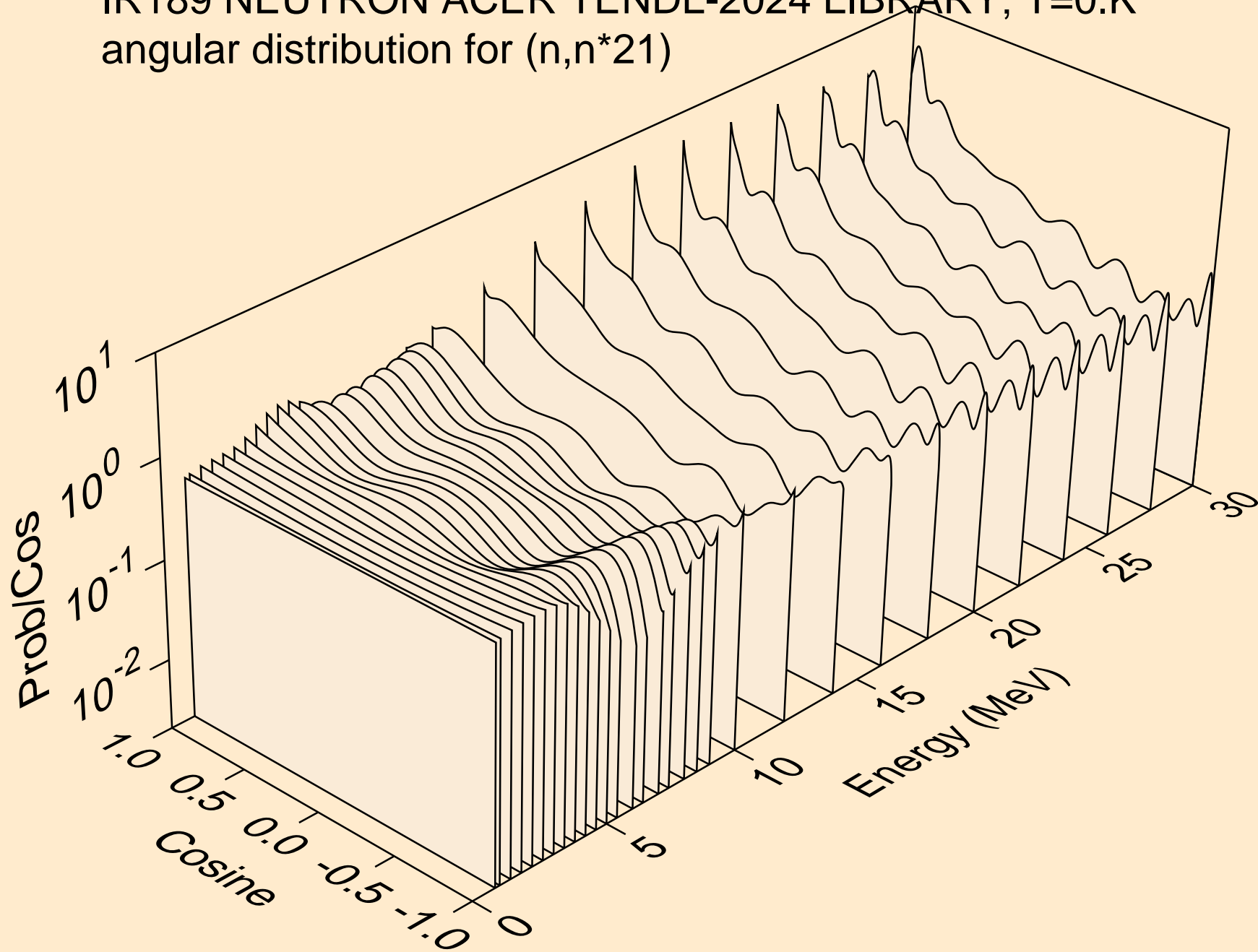
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*19)



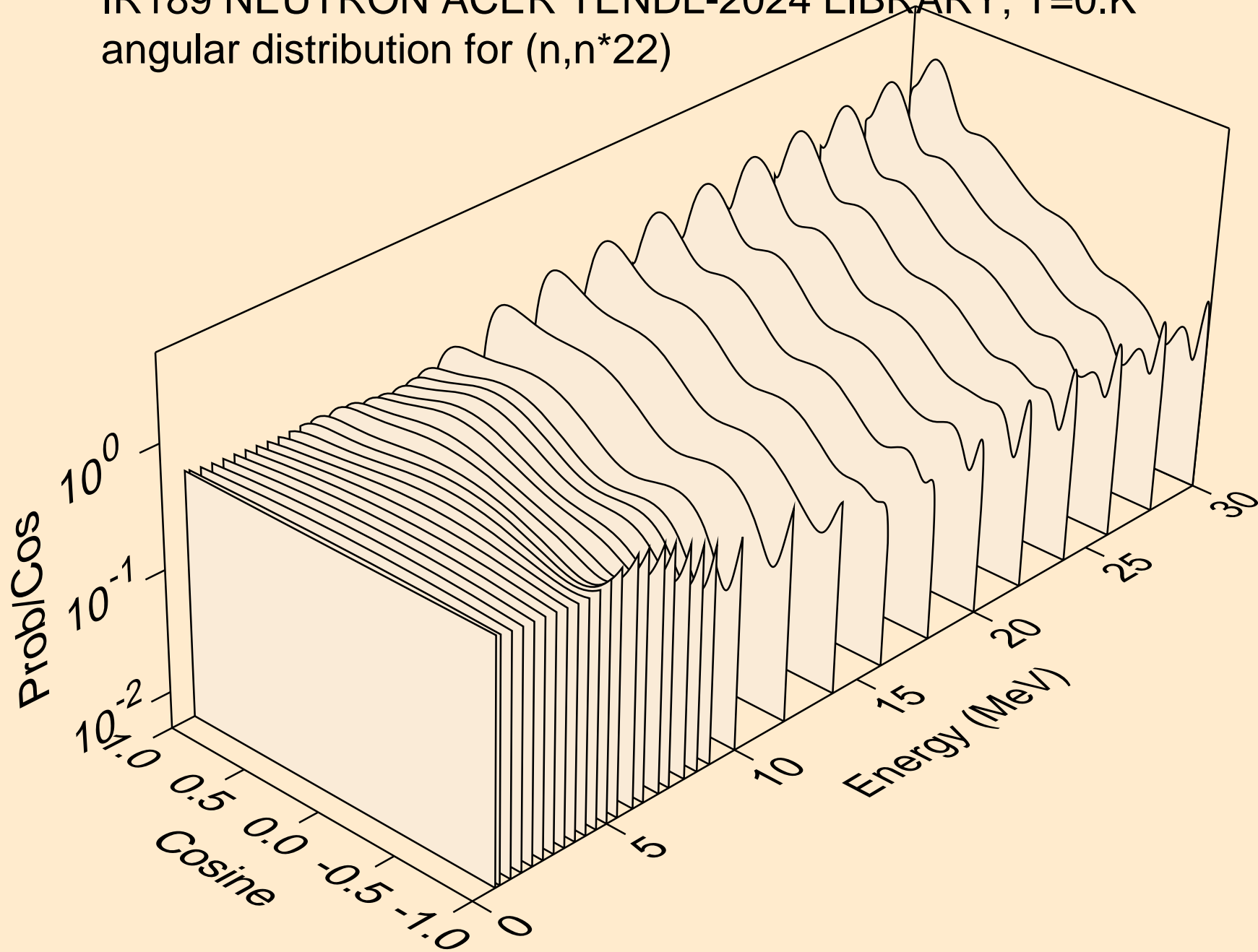
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*20)



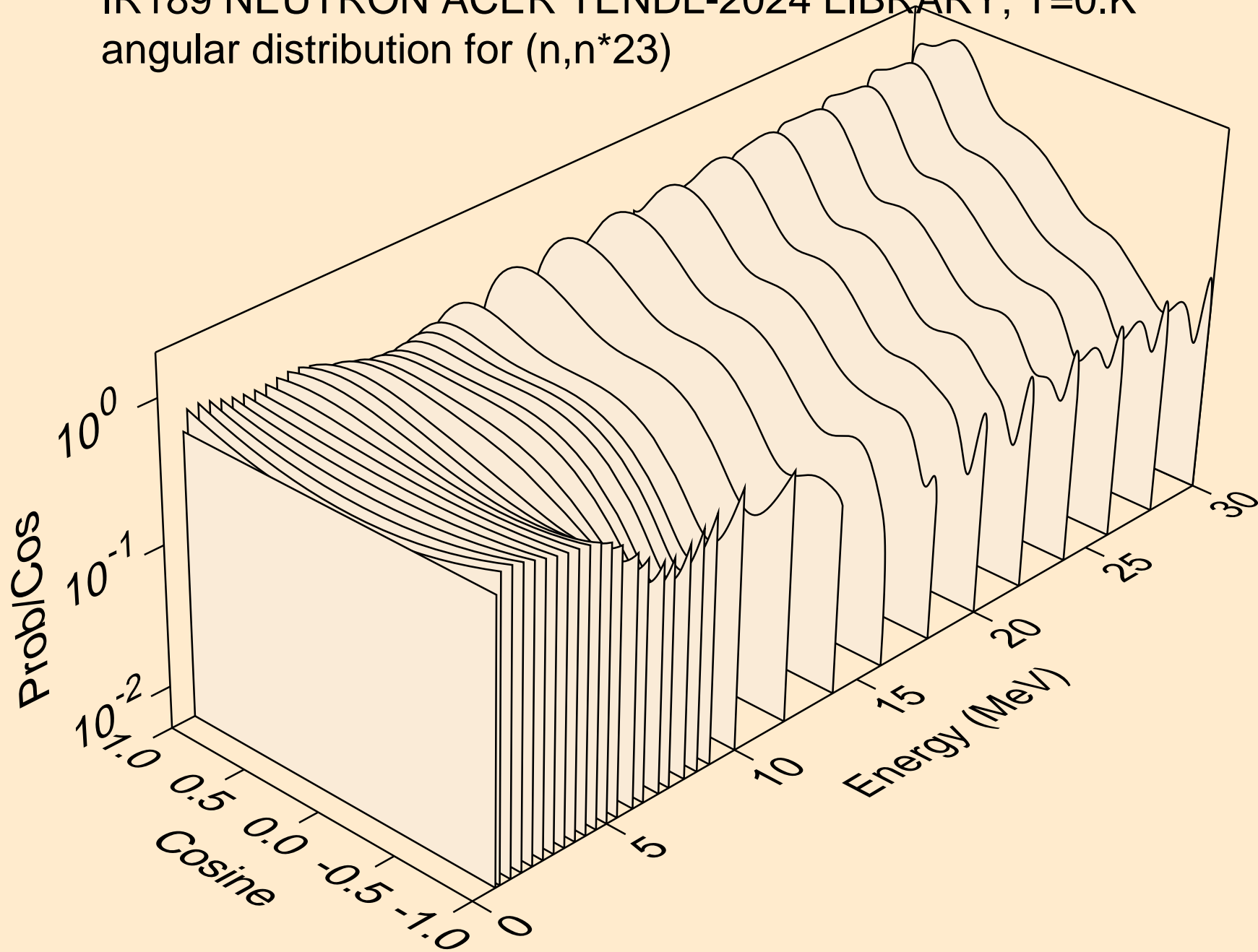
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*21)



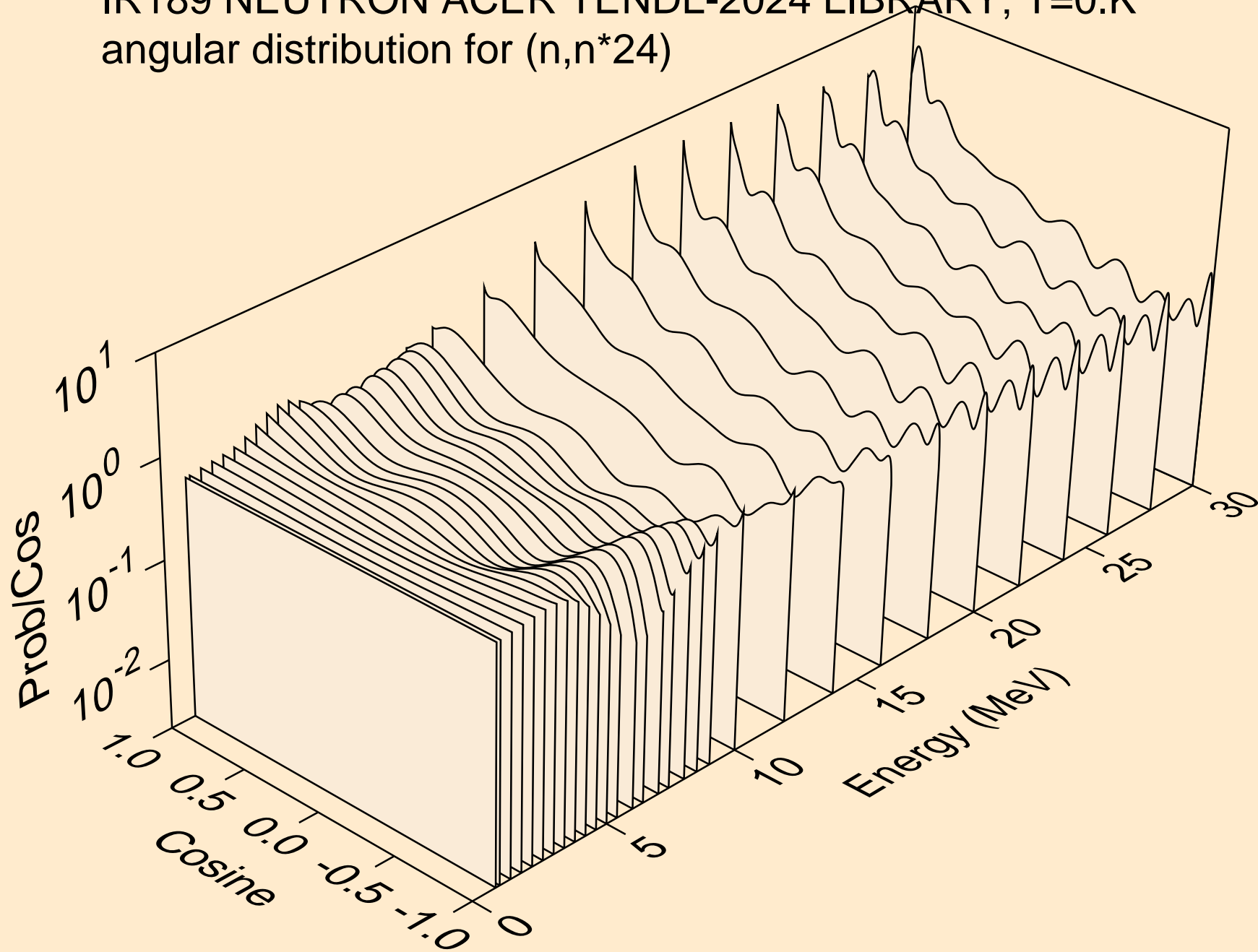
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*22)



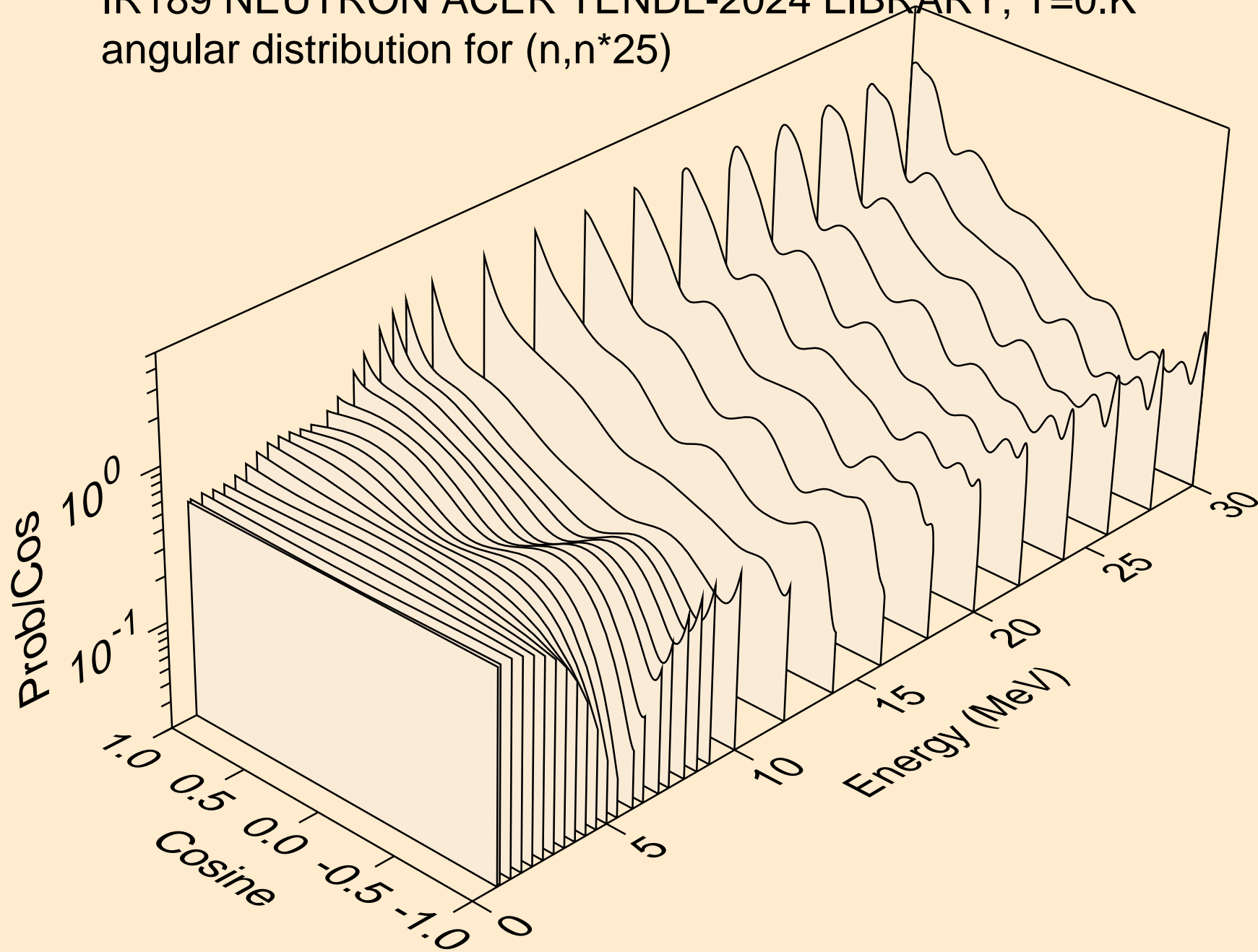
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*23)



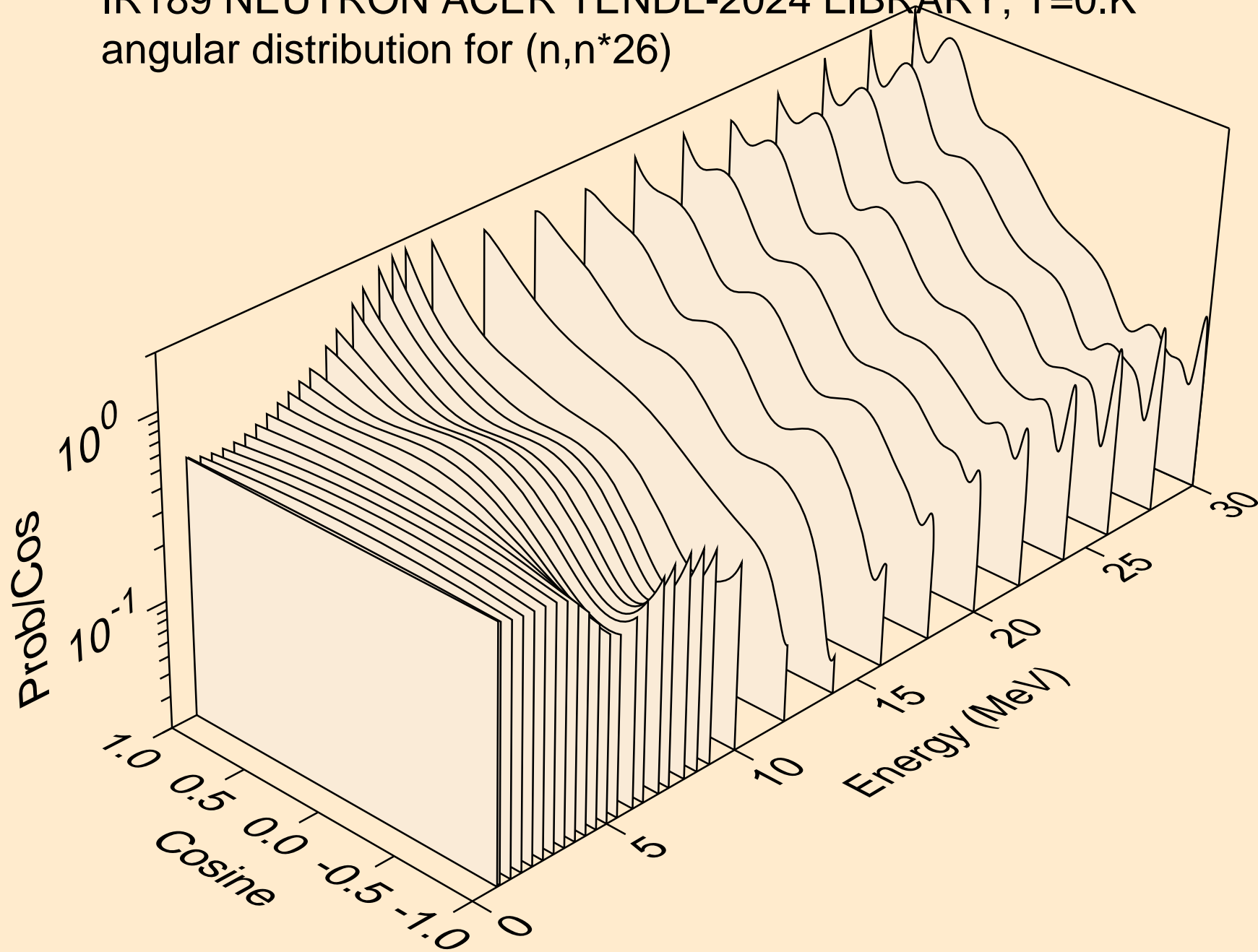
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)



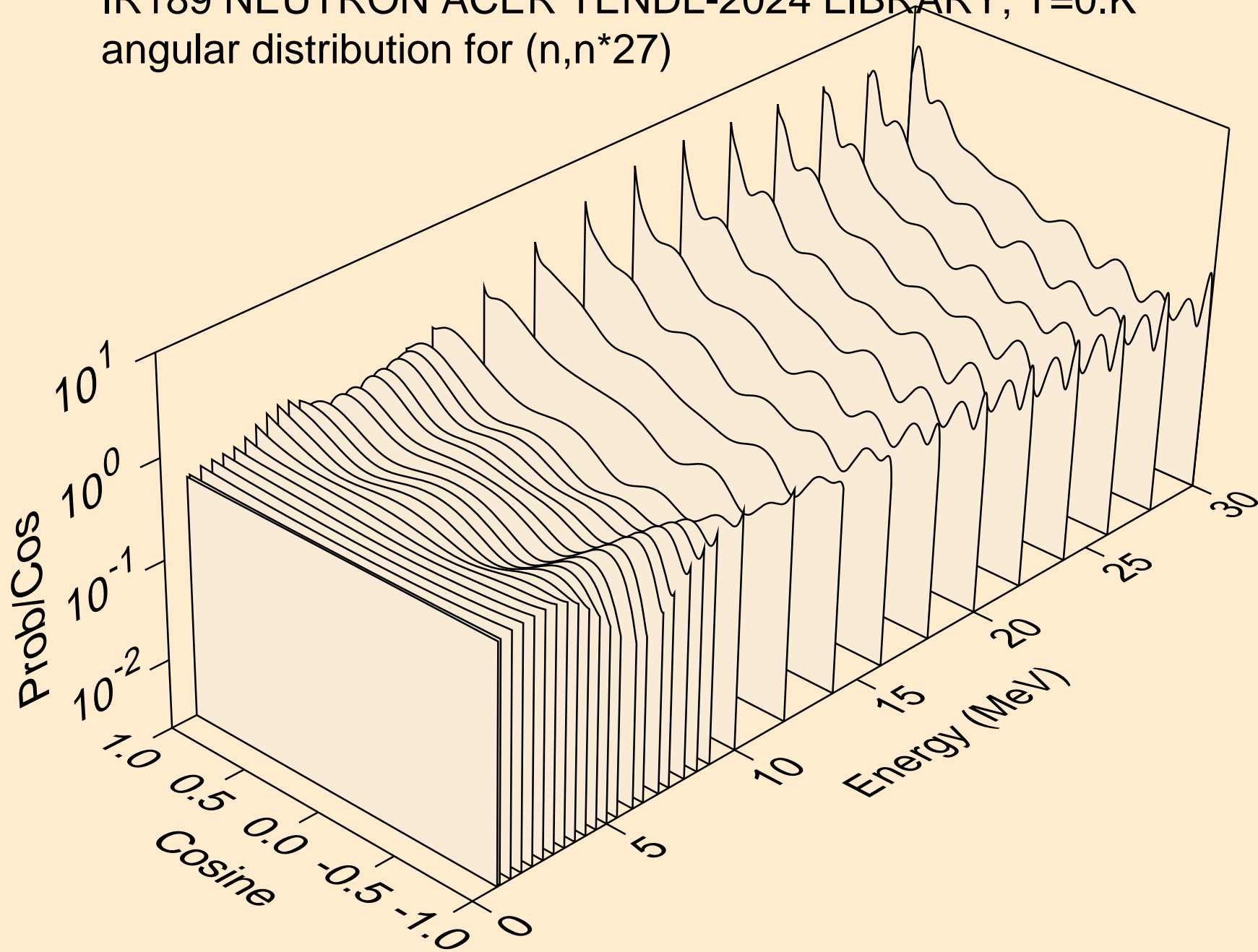
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



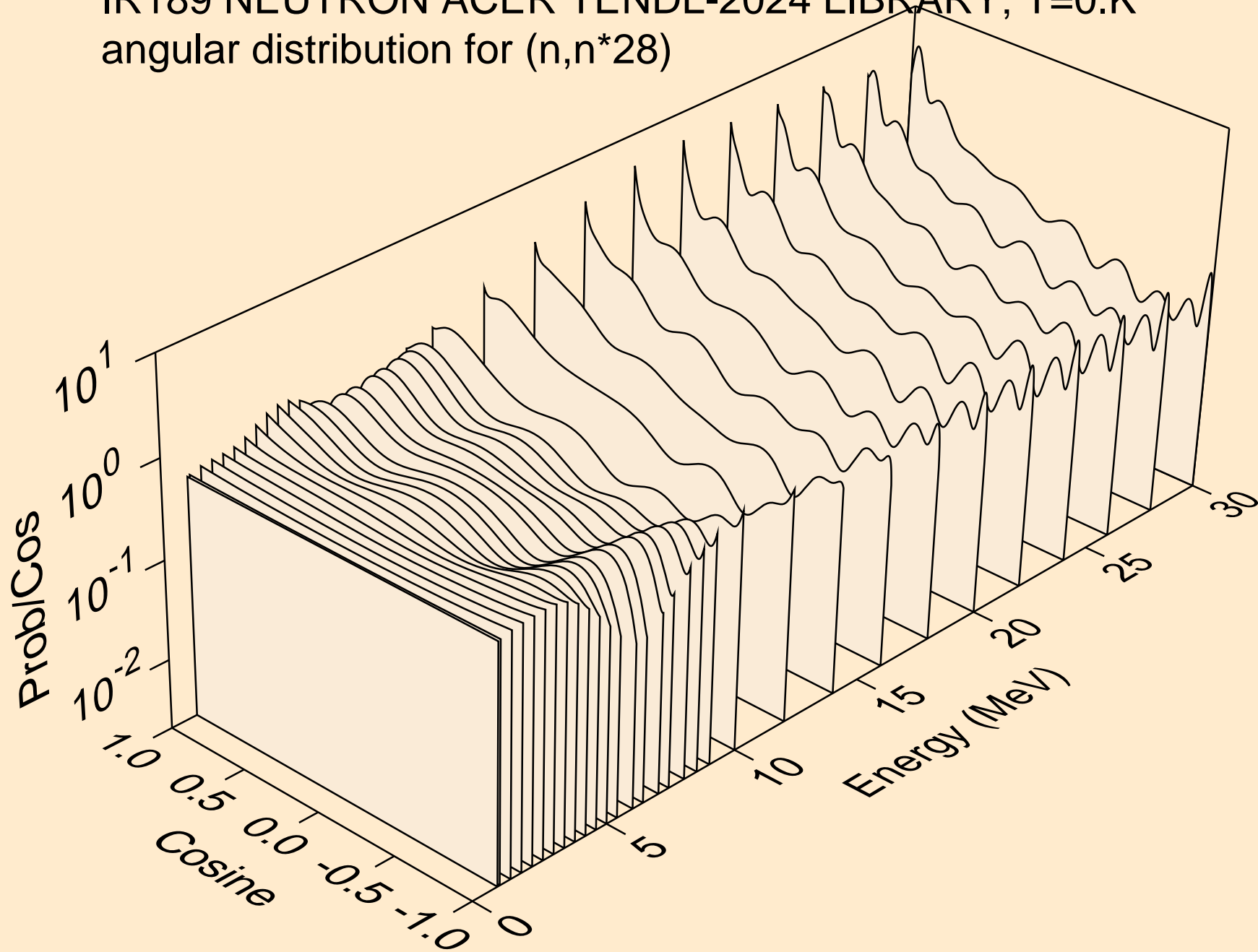
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



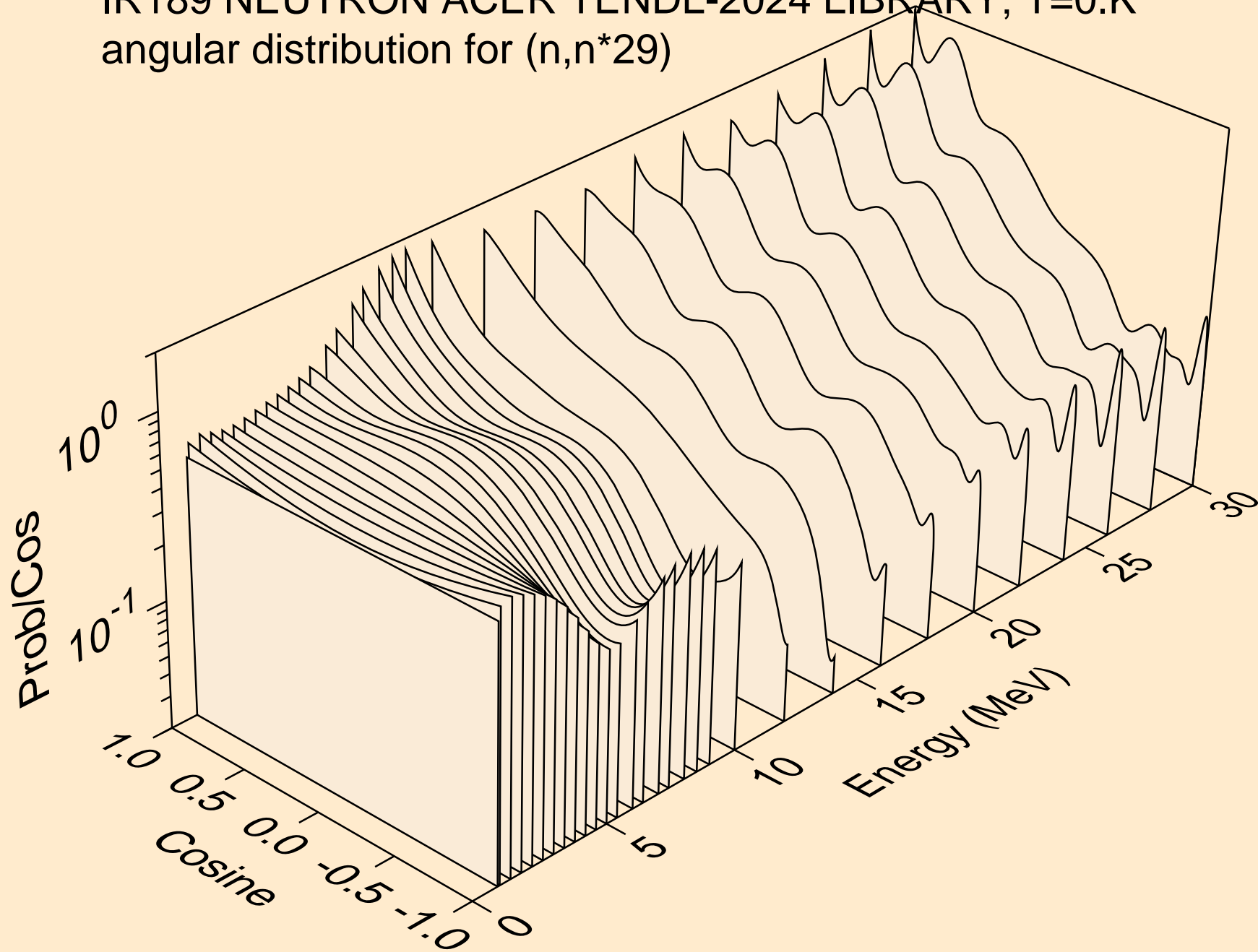
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



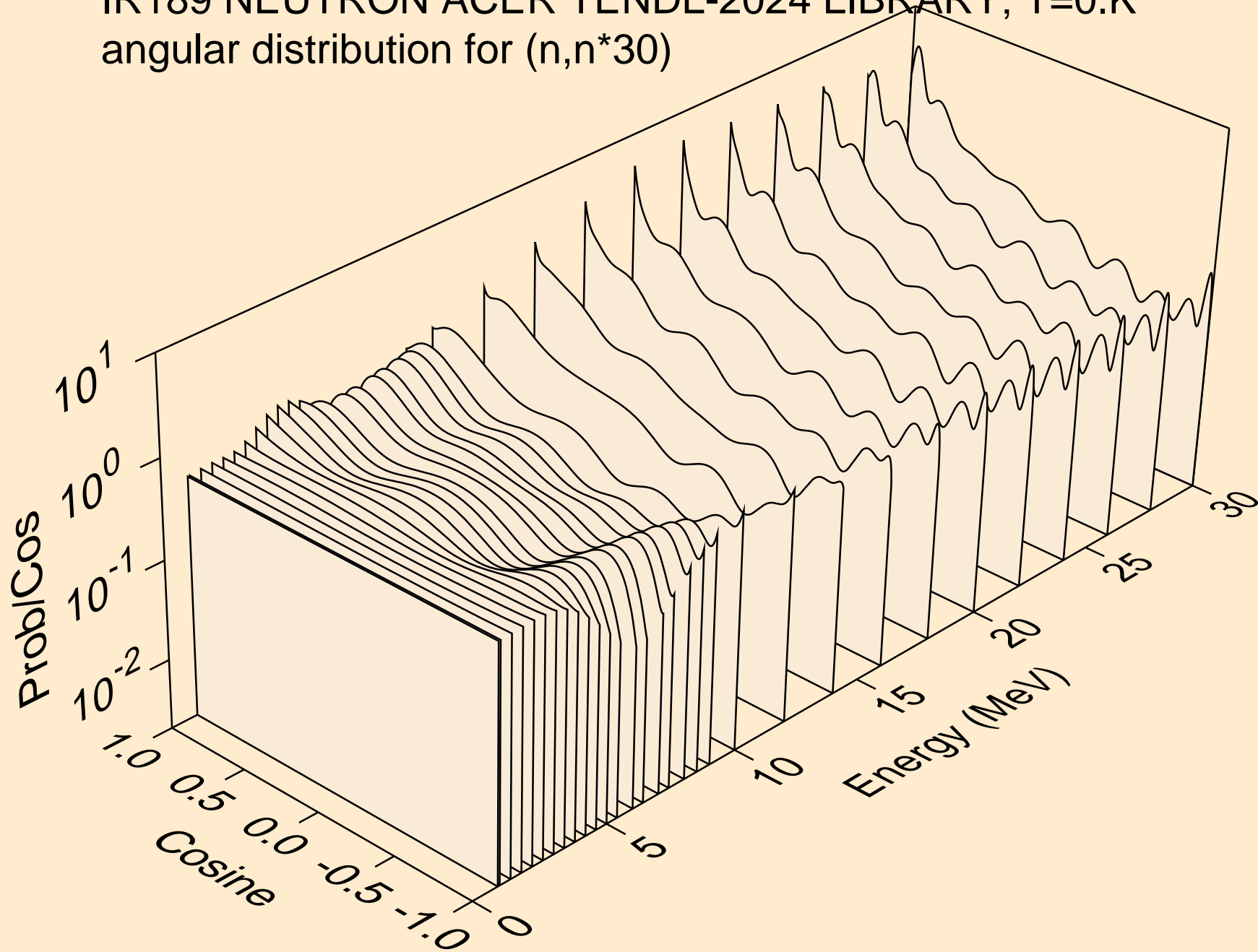
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



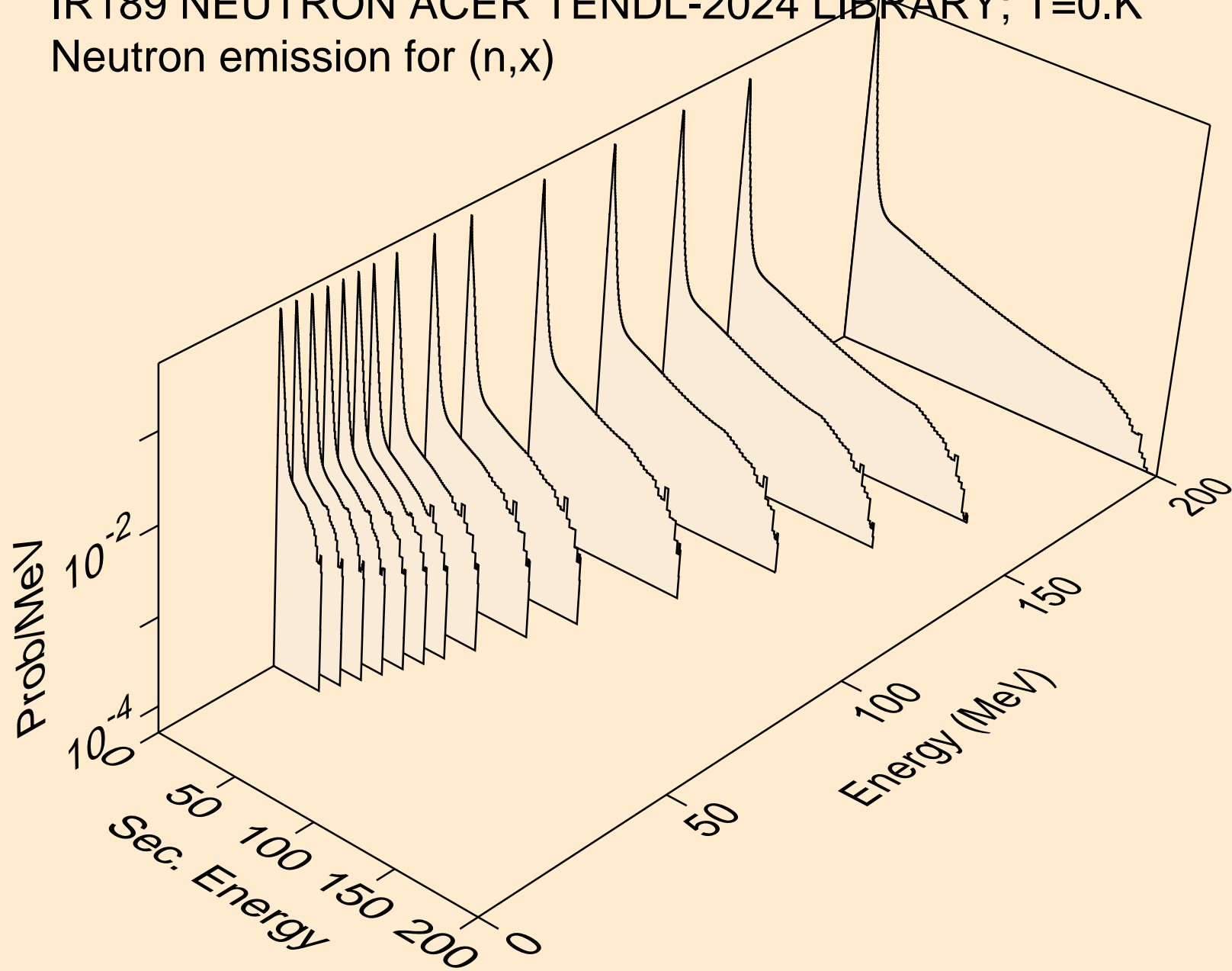
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angular distribution for (n,n\*29)



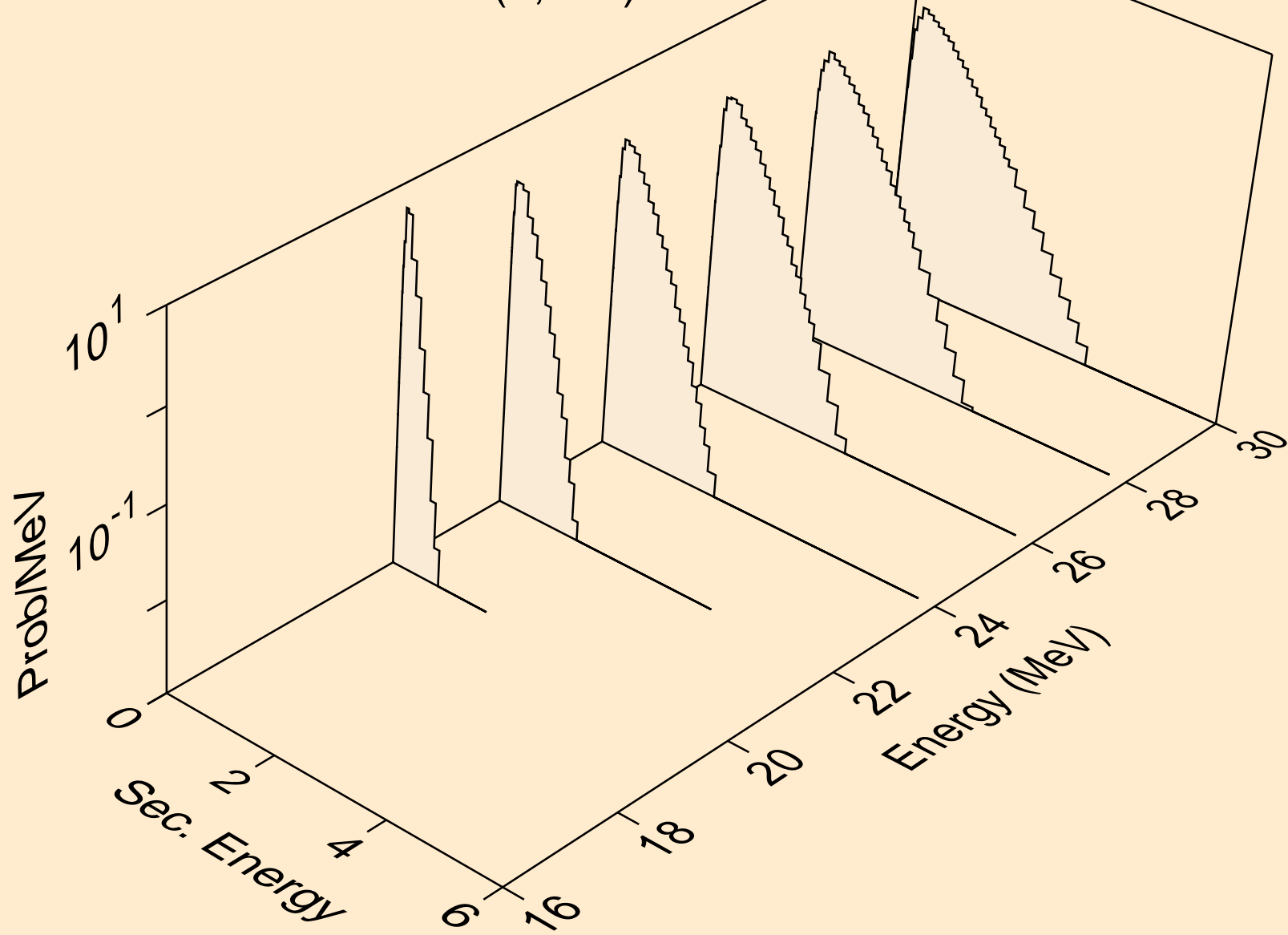
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



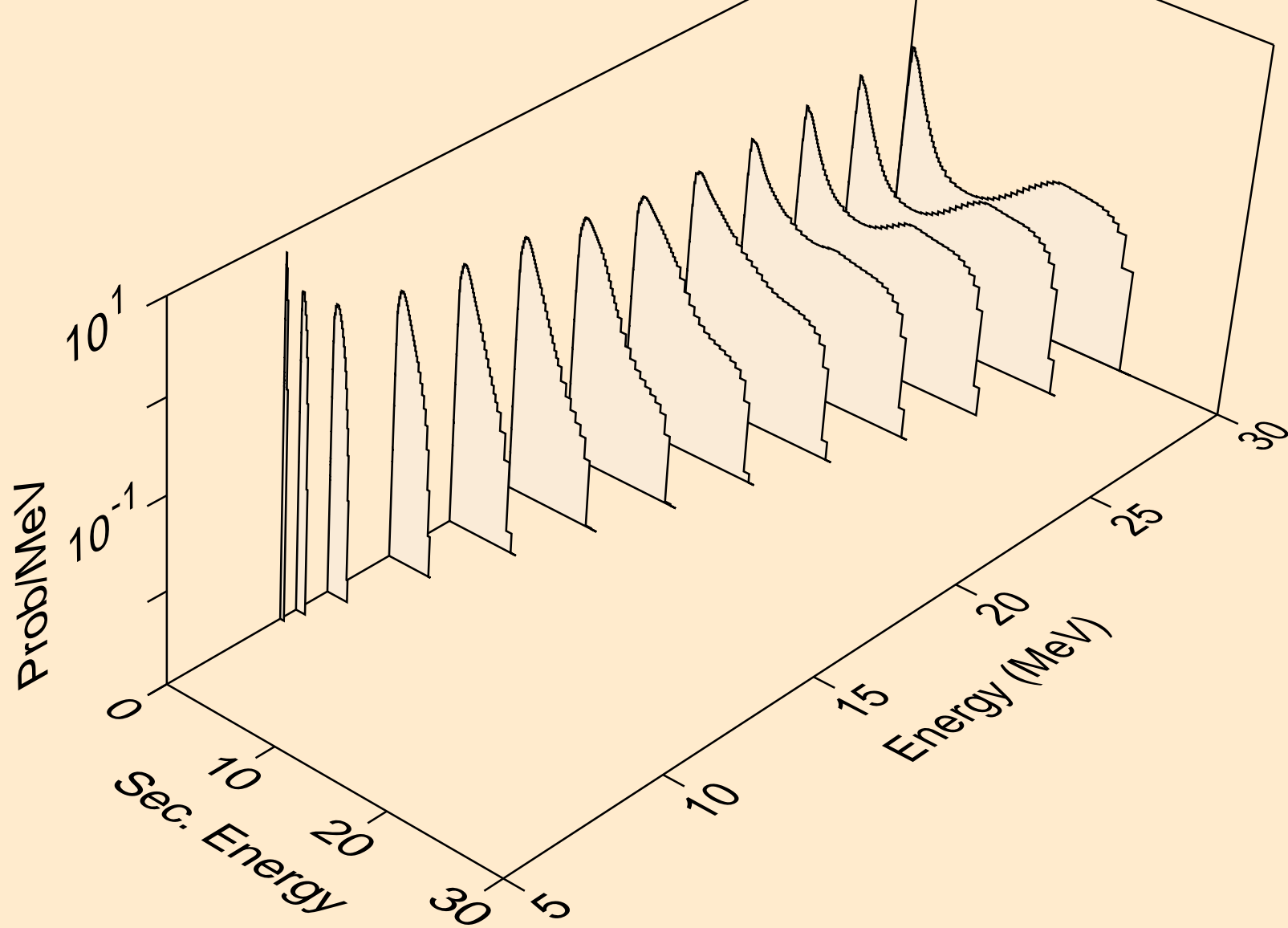
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



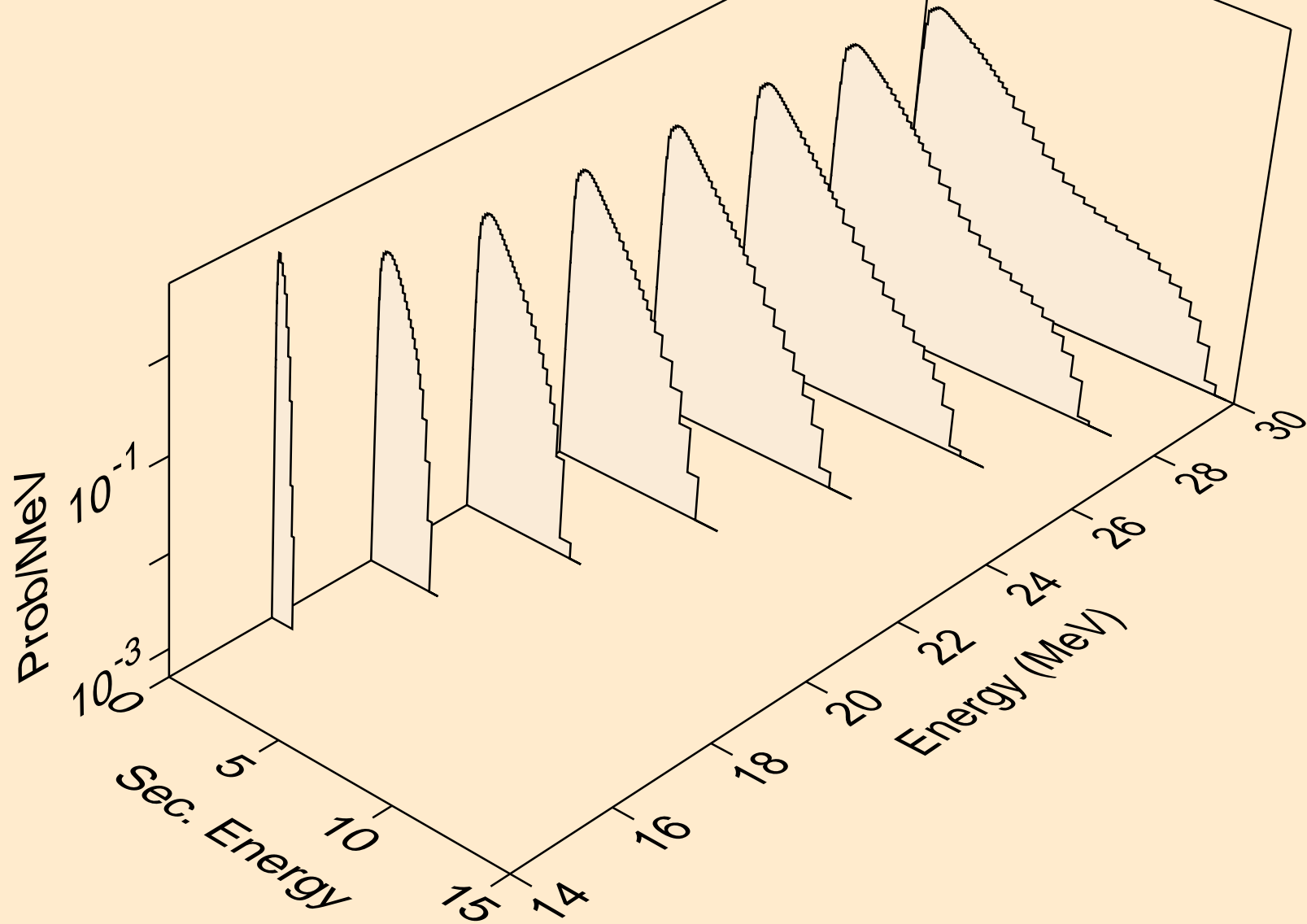
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



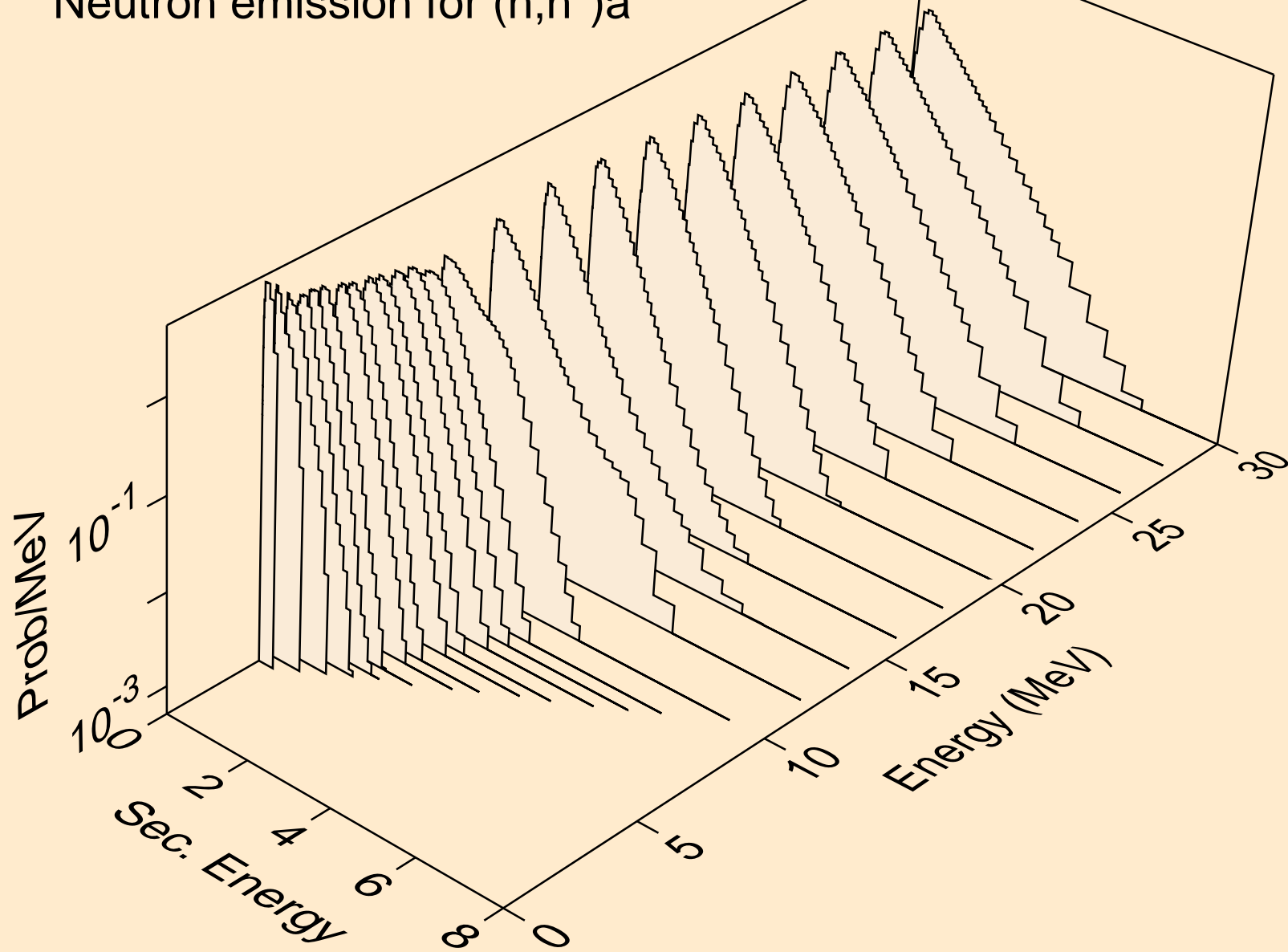
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



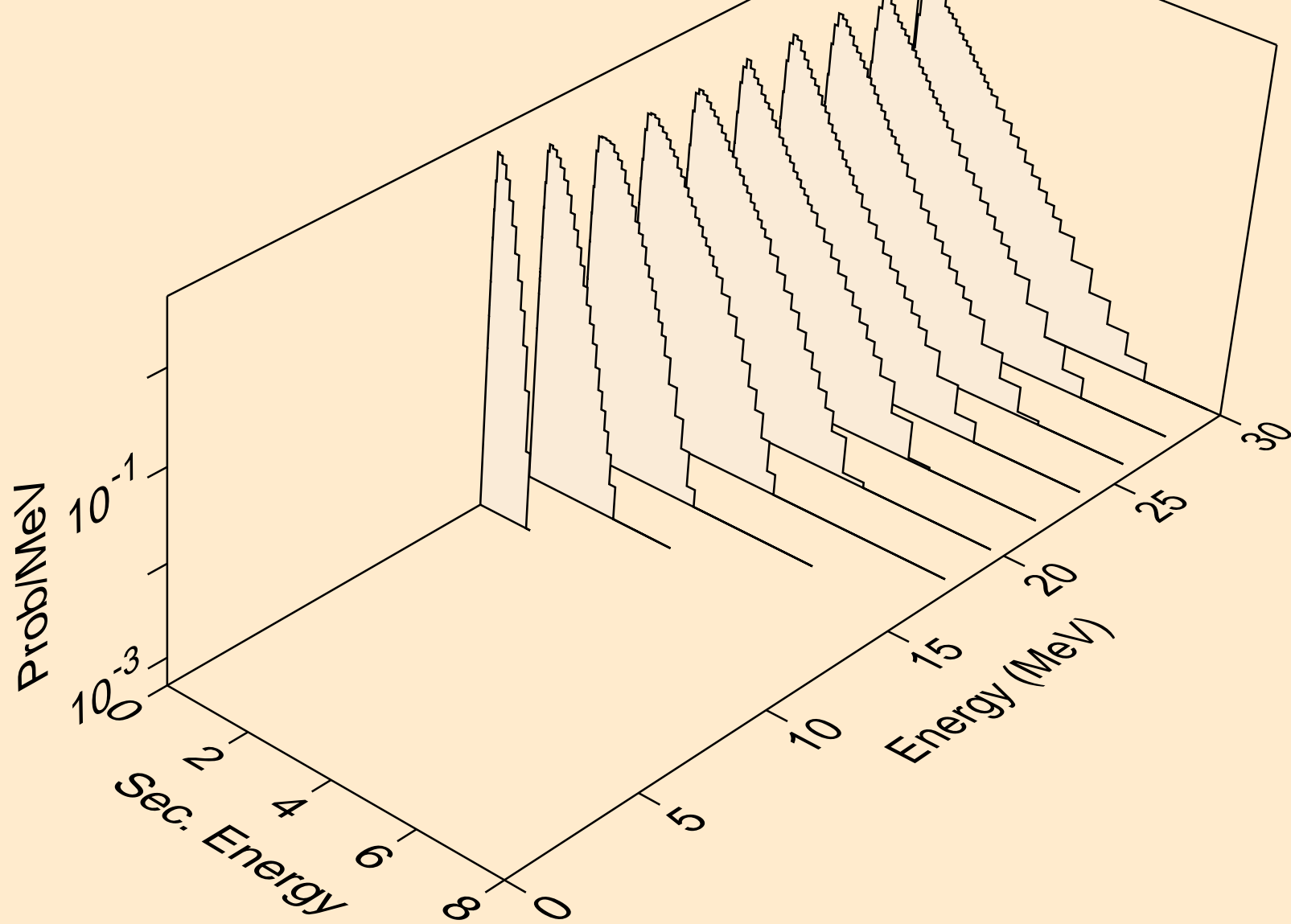
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



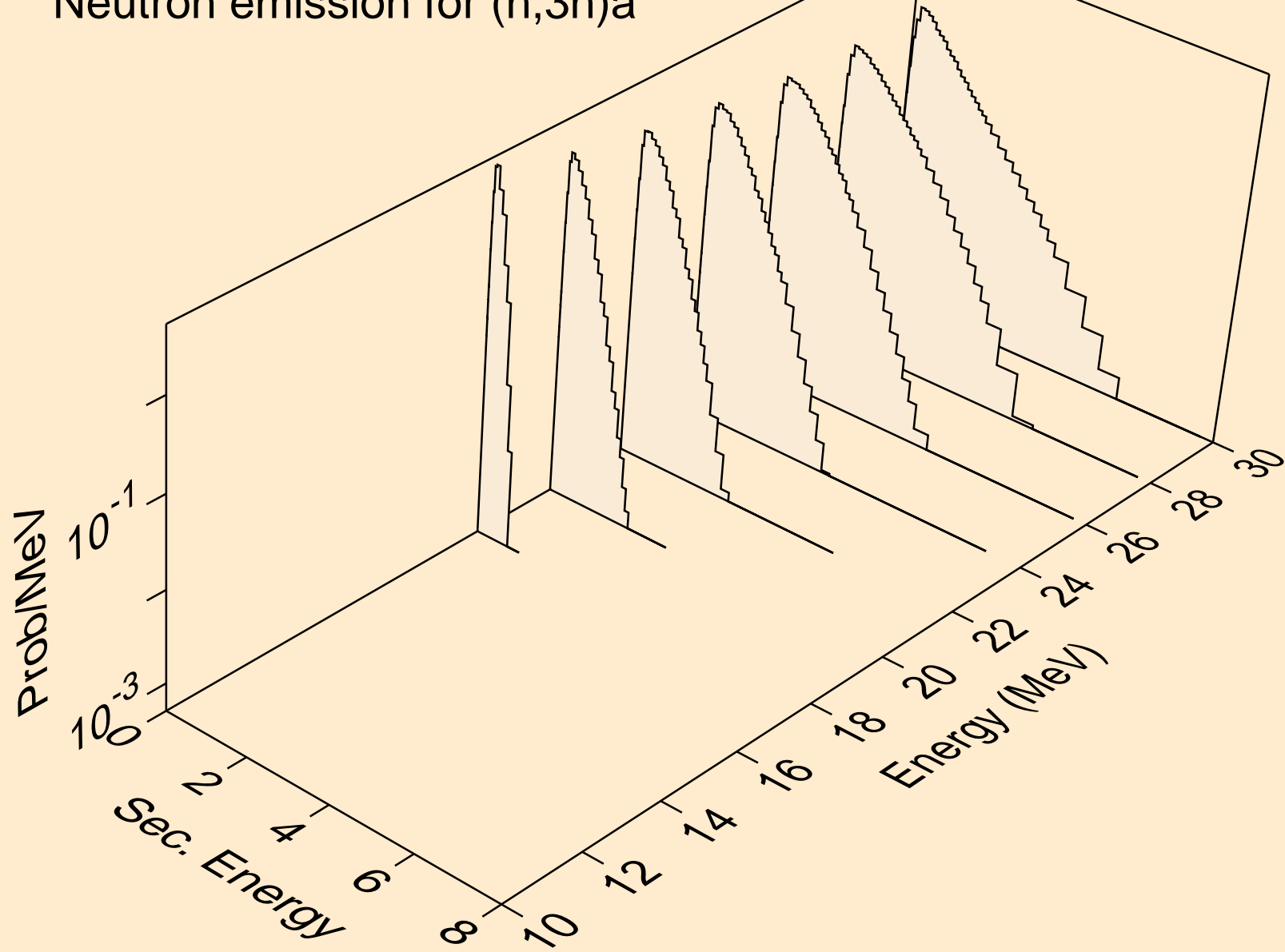
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



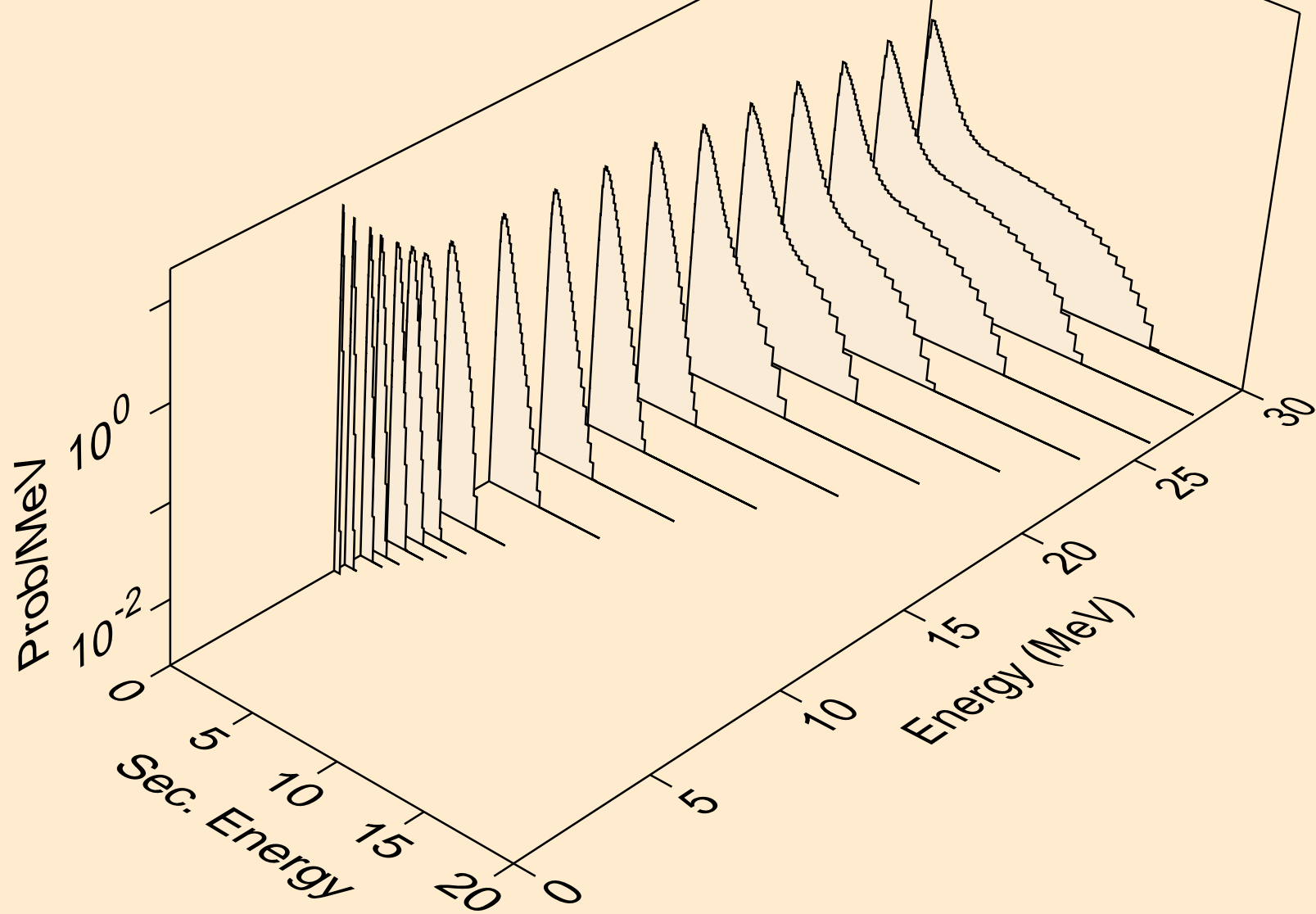
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



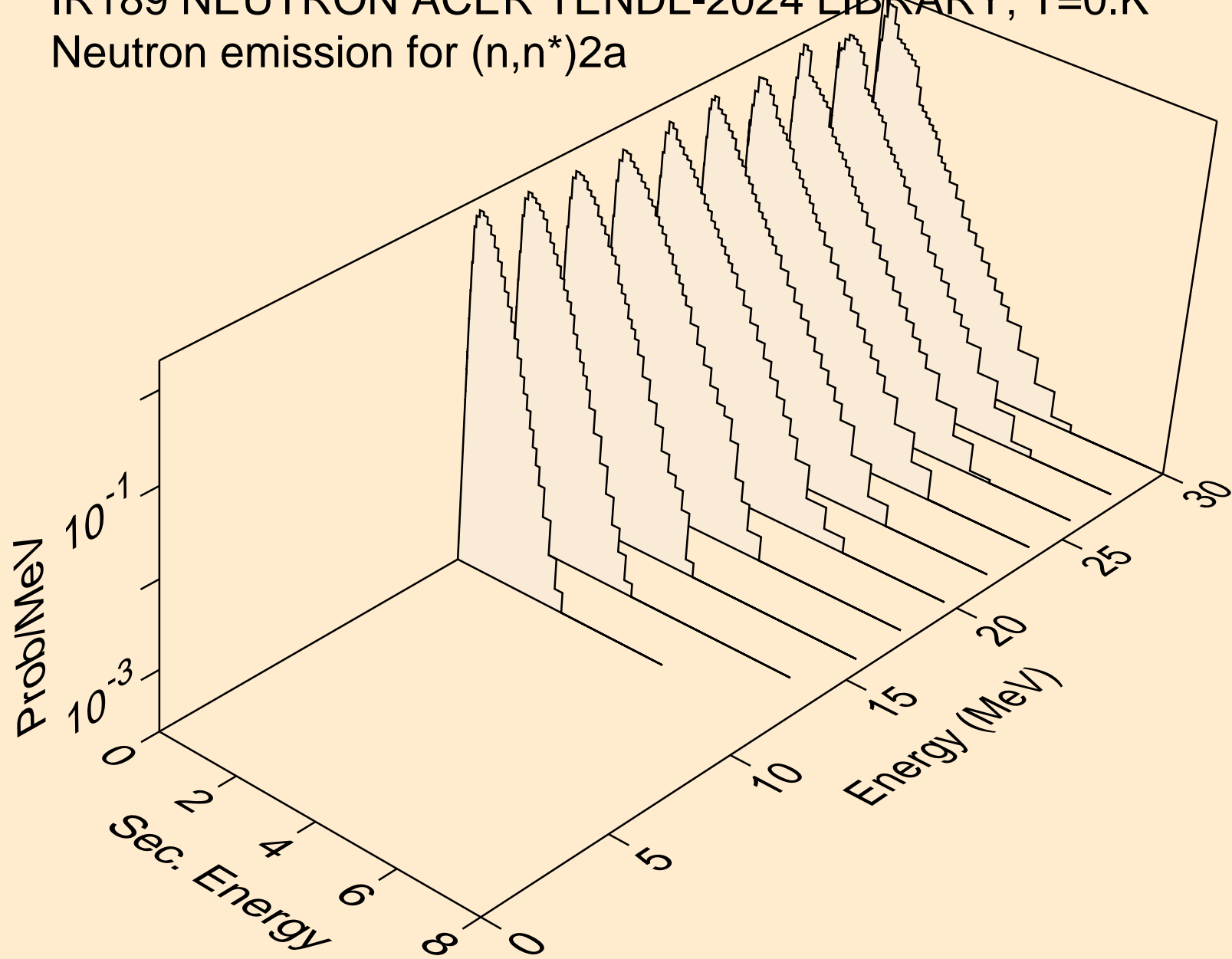
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



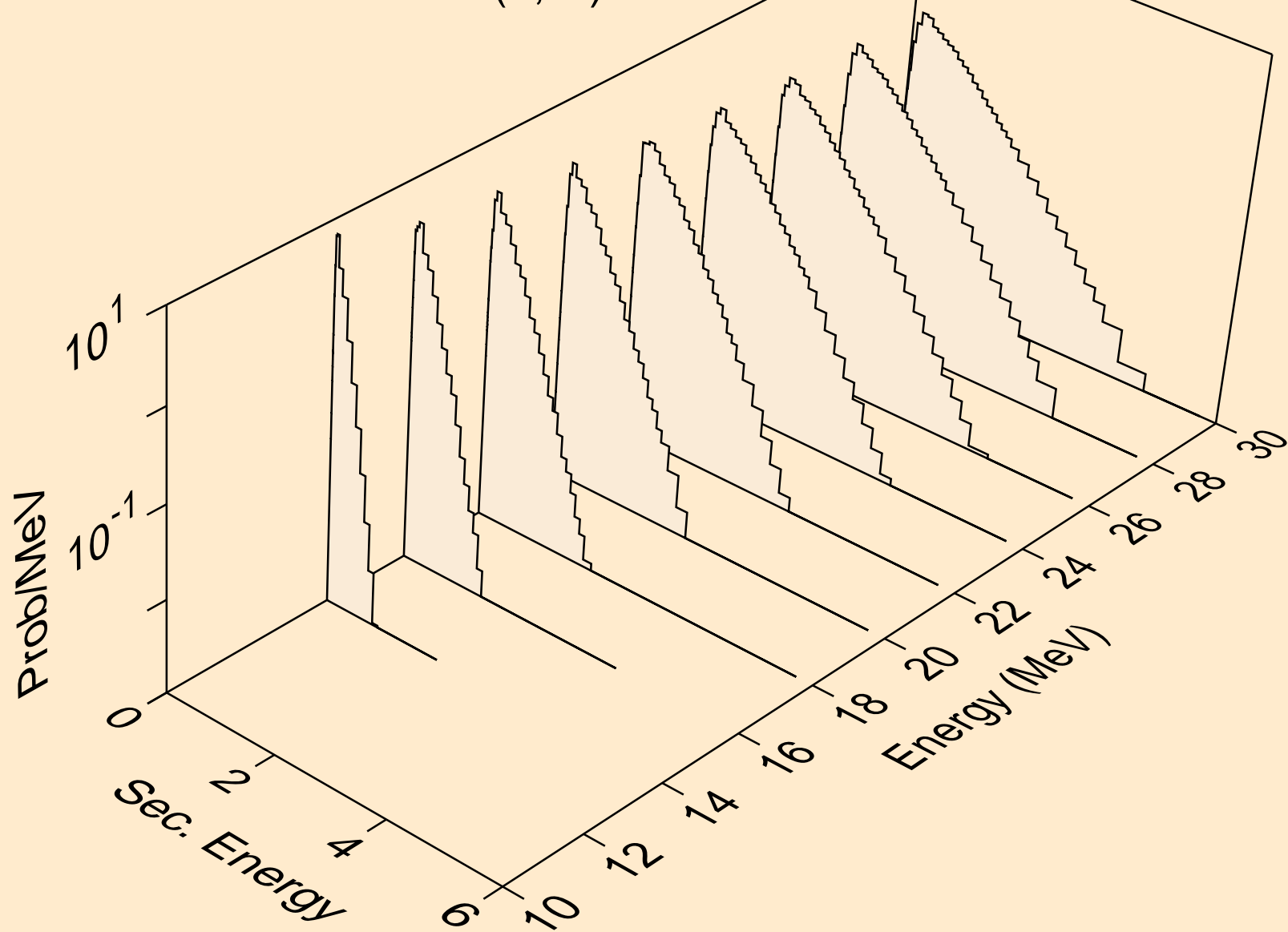
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



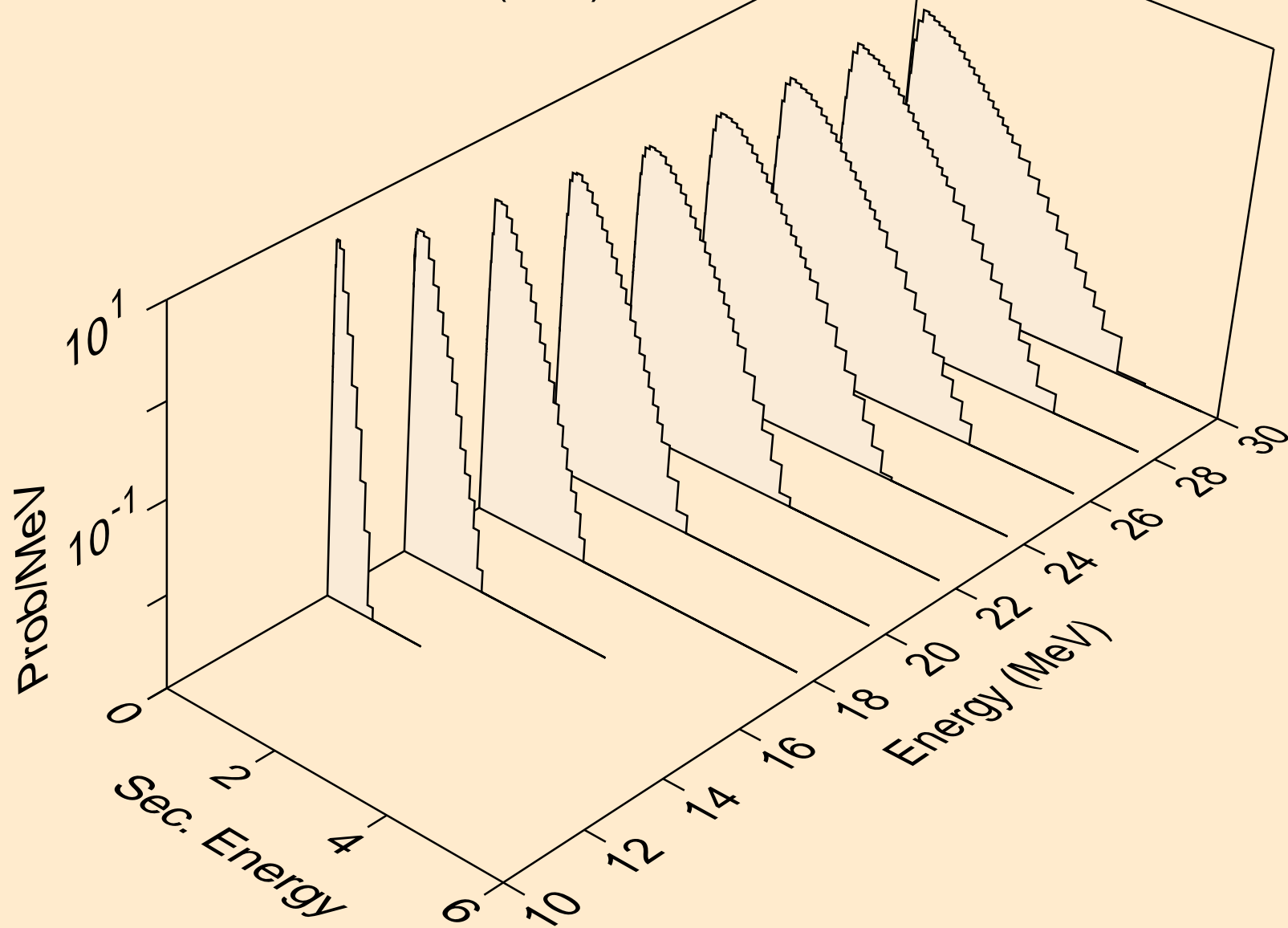
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Neutron emission for (n,n\*)2a



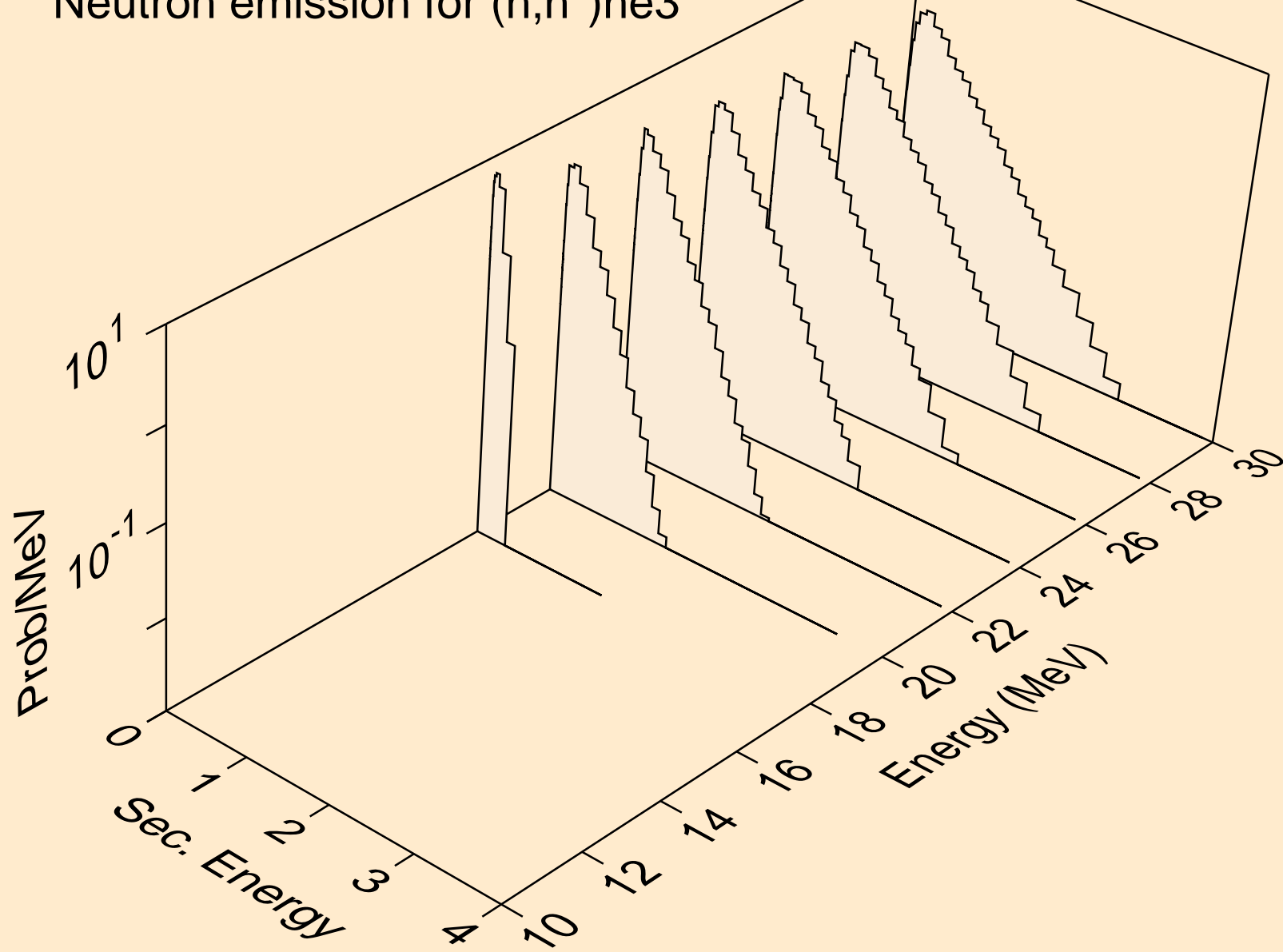
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



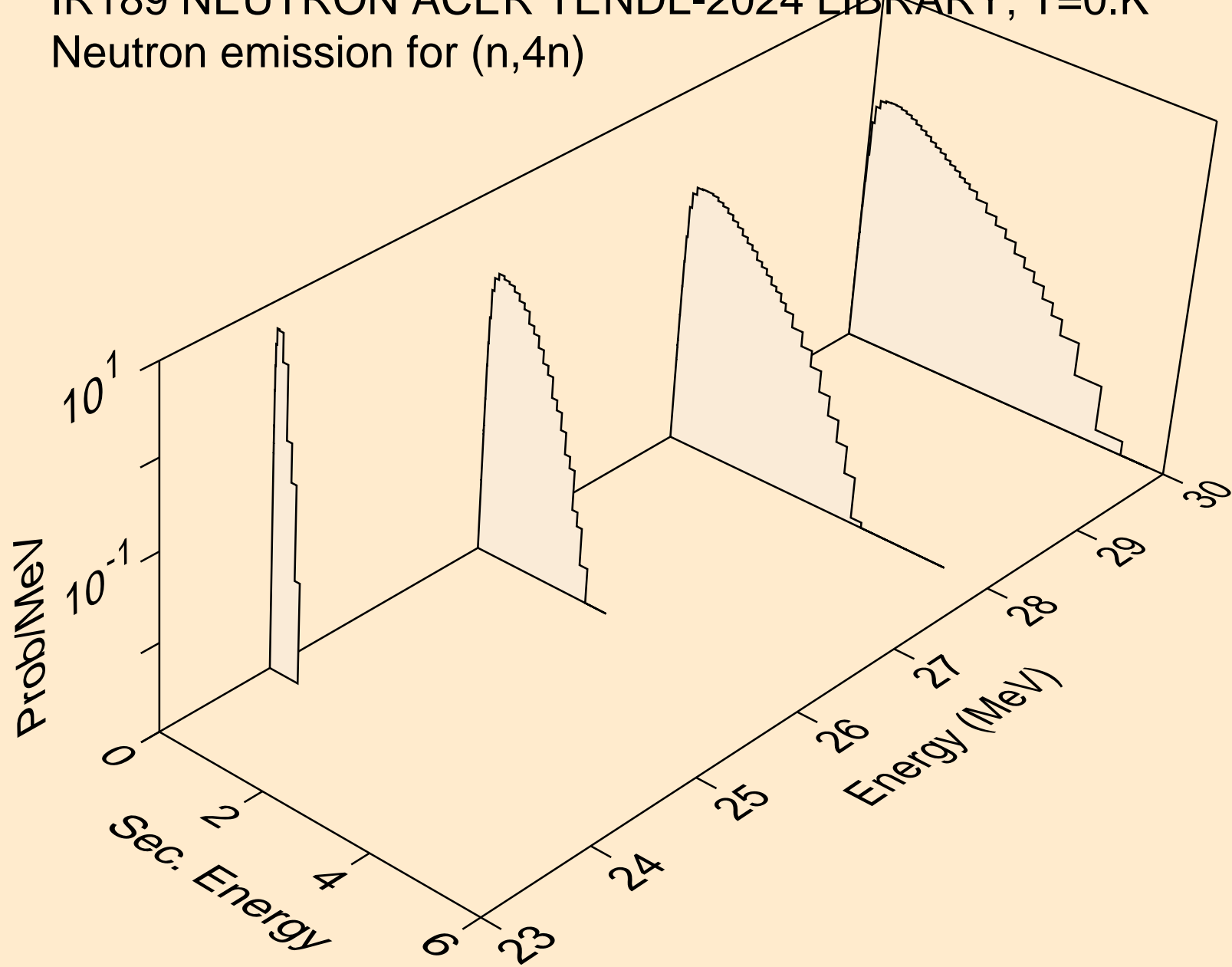
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



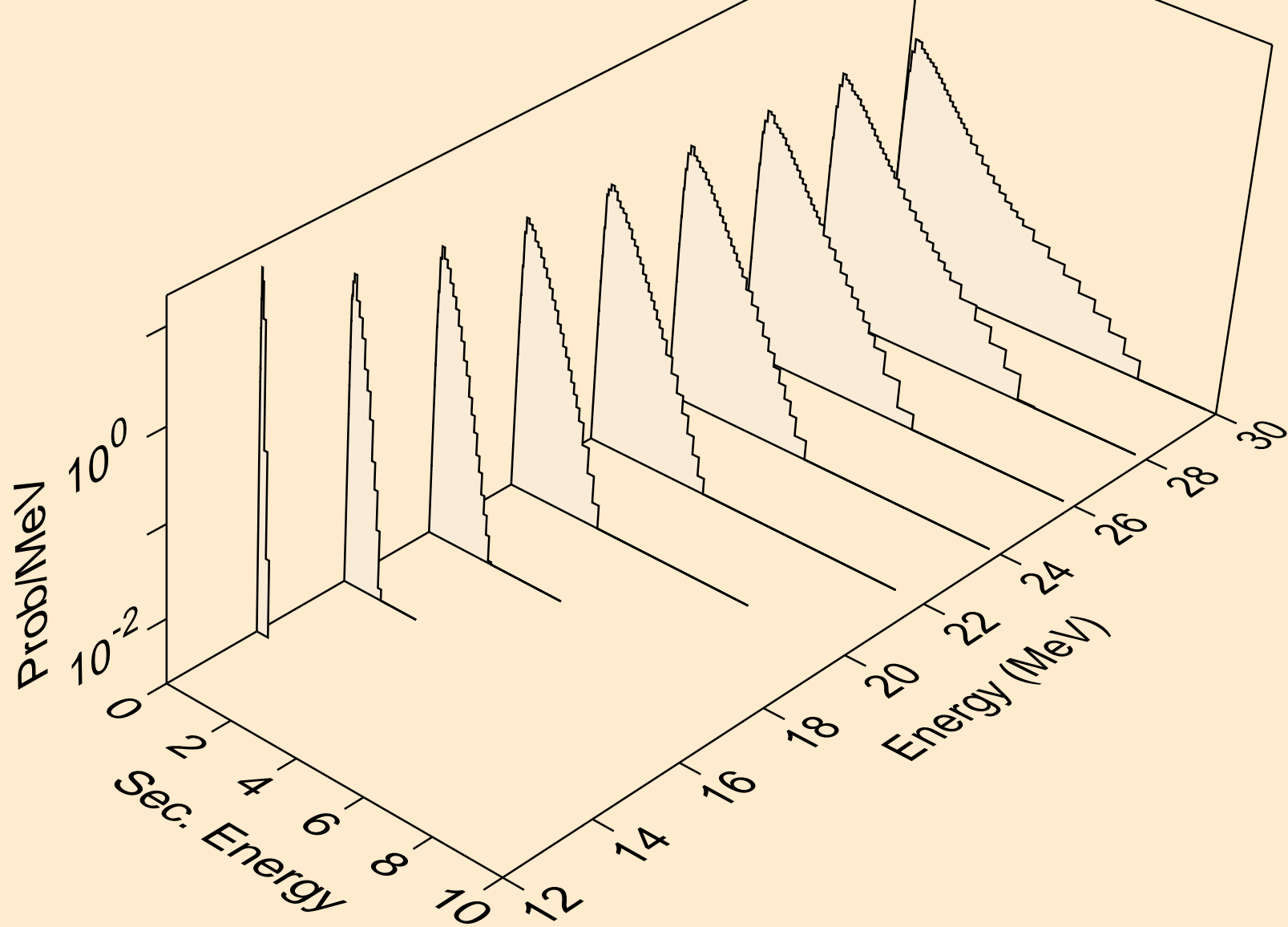
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



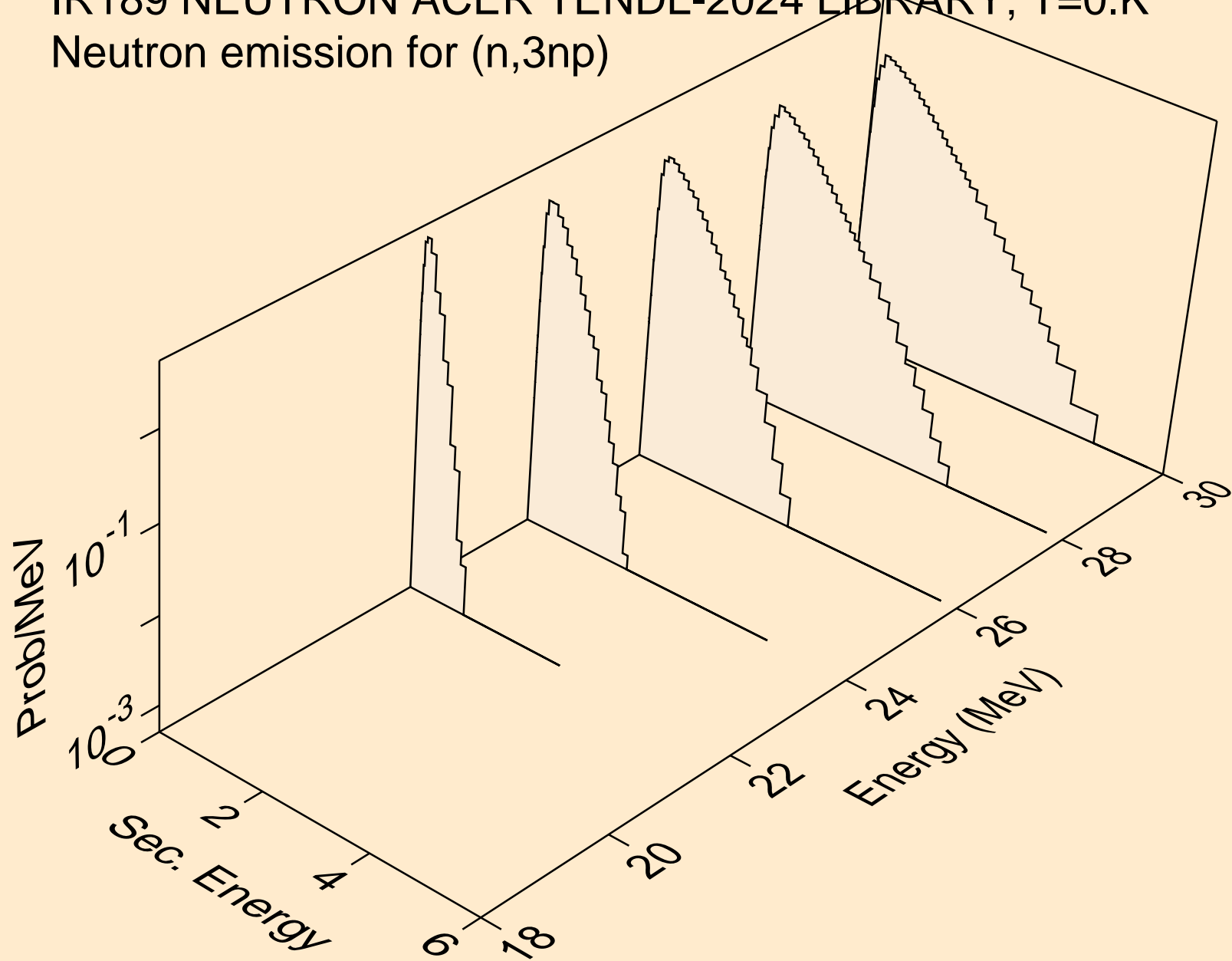
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



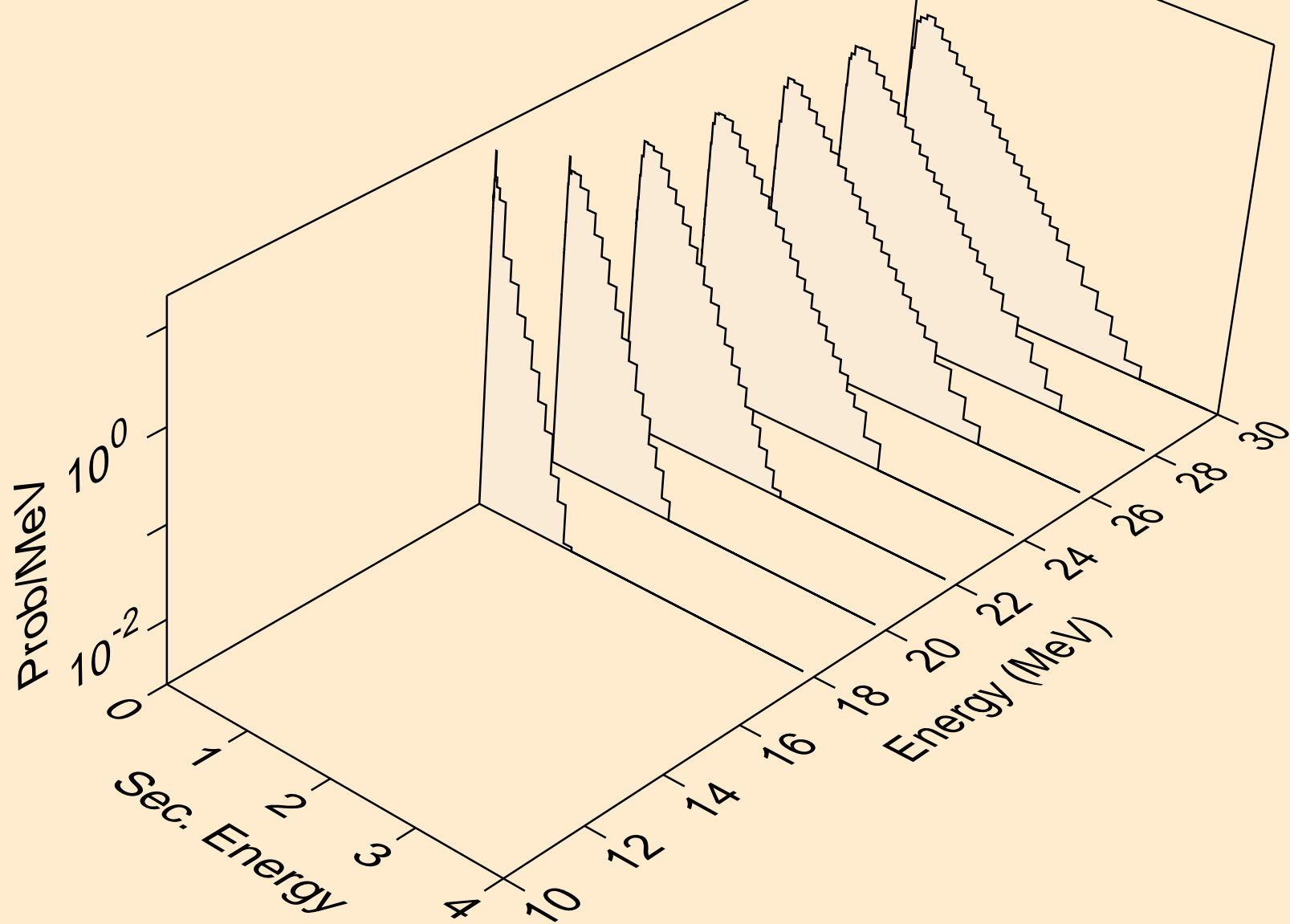
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



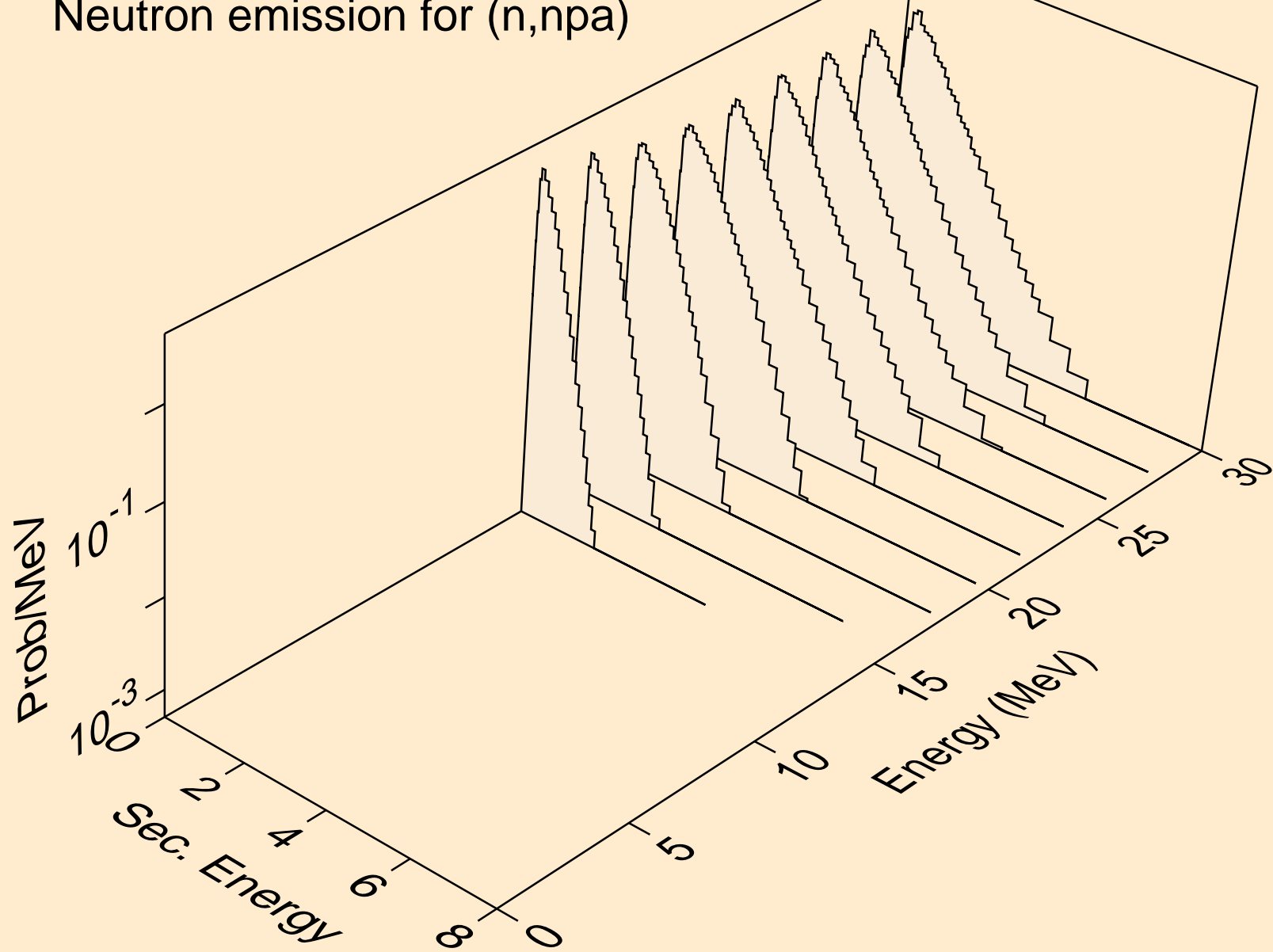
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Neutron emission for (n,3np)



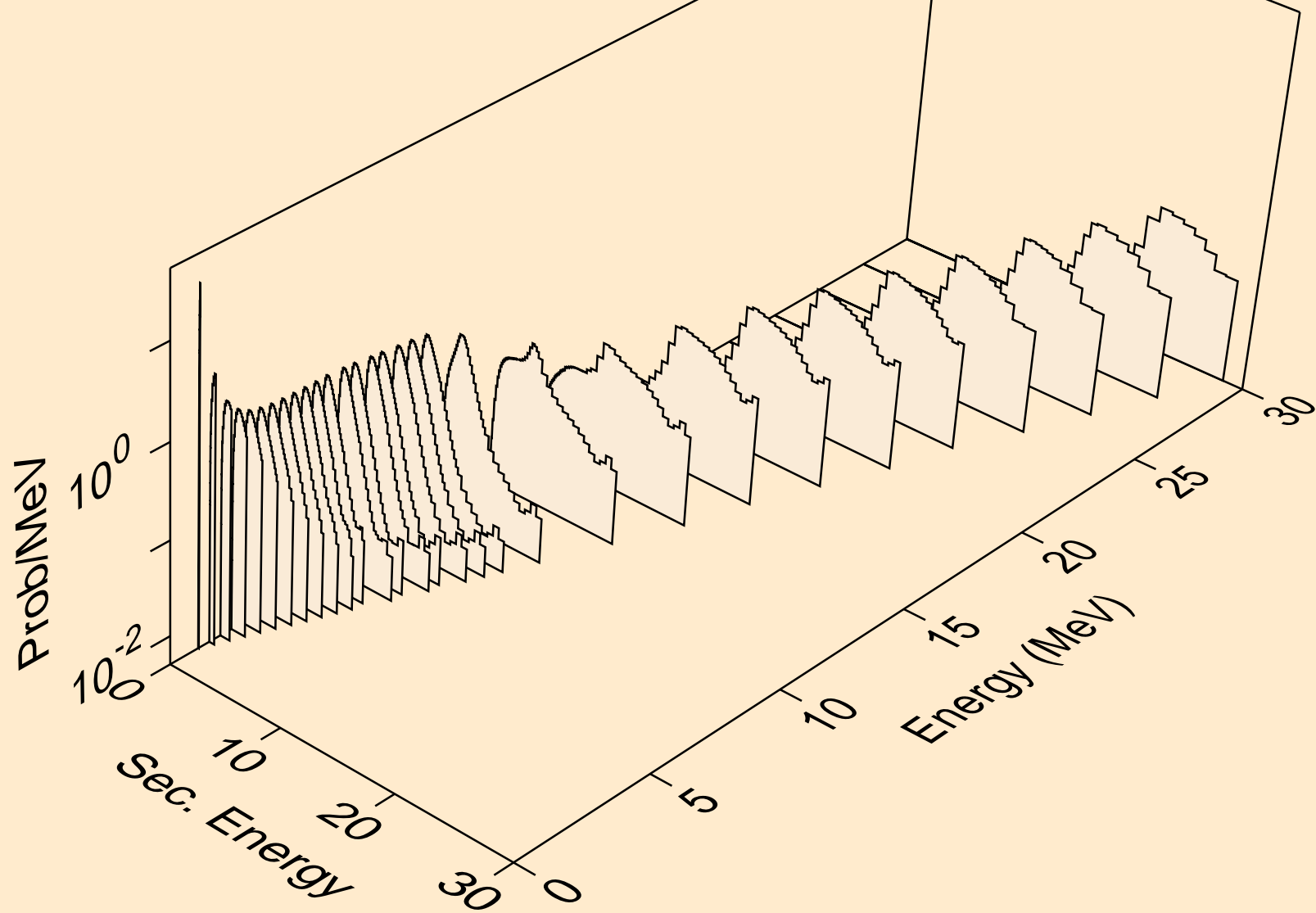
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Neutron emission for (n,n2p)



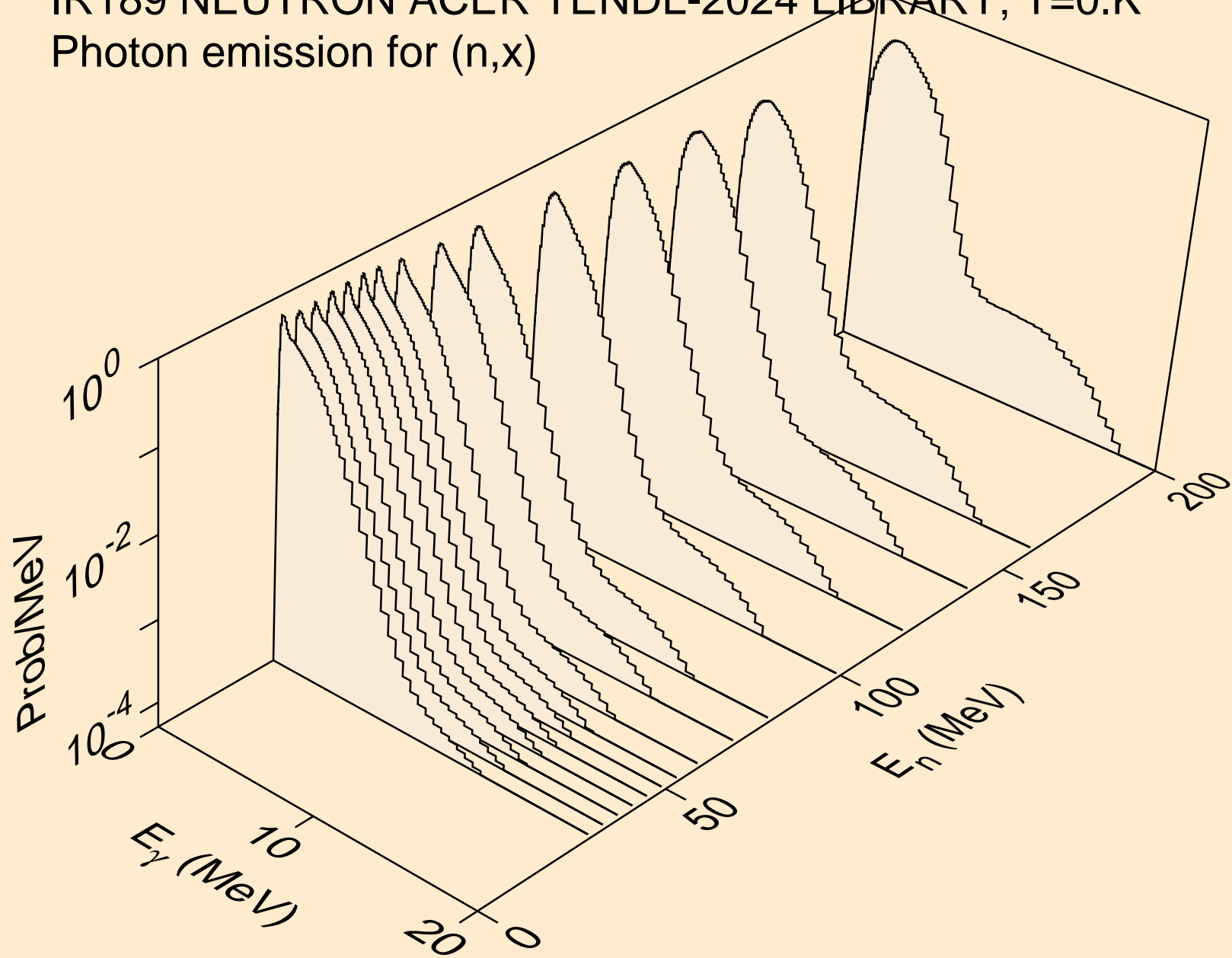
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



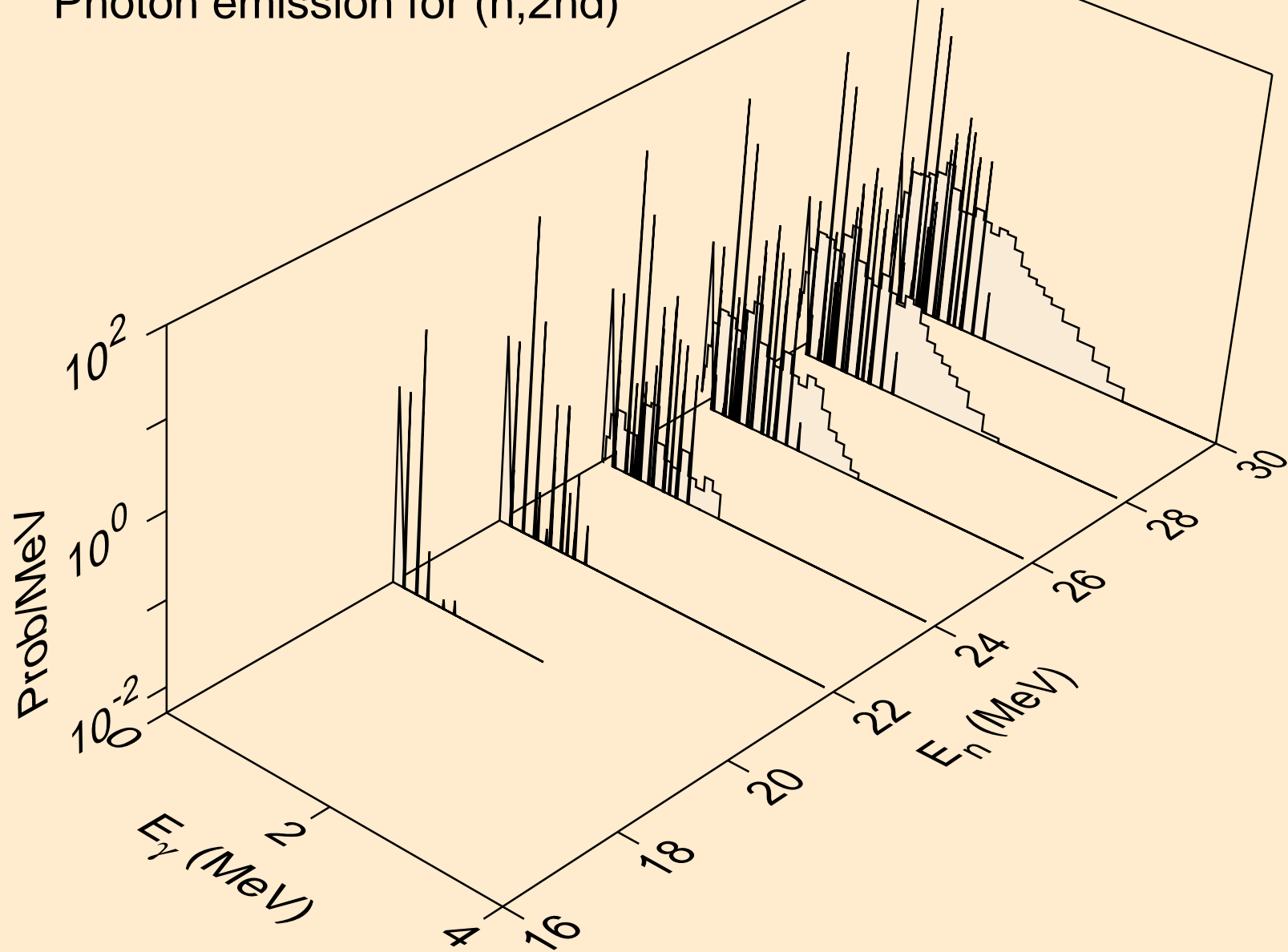
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



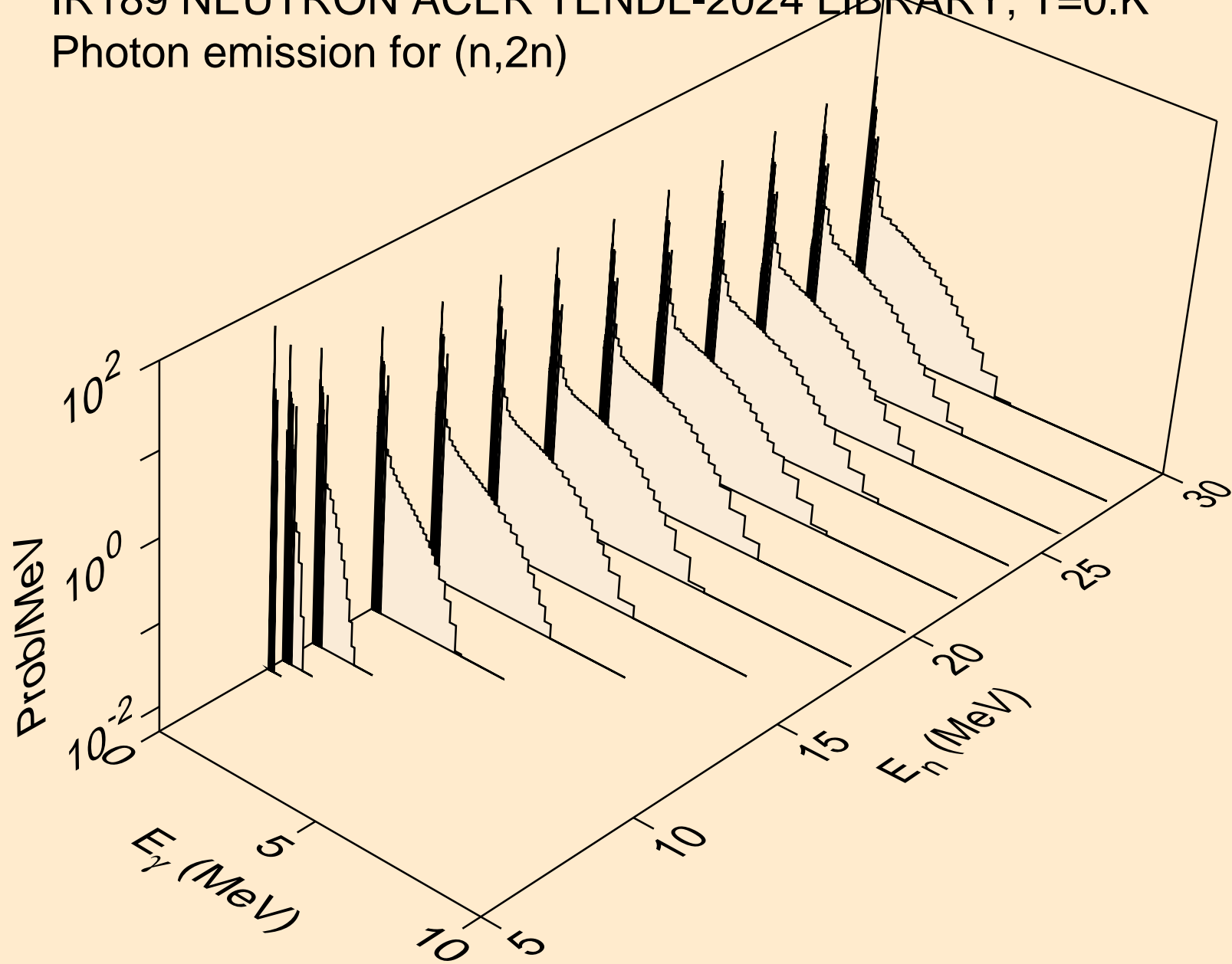
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



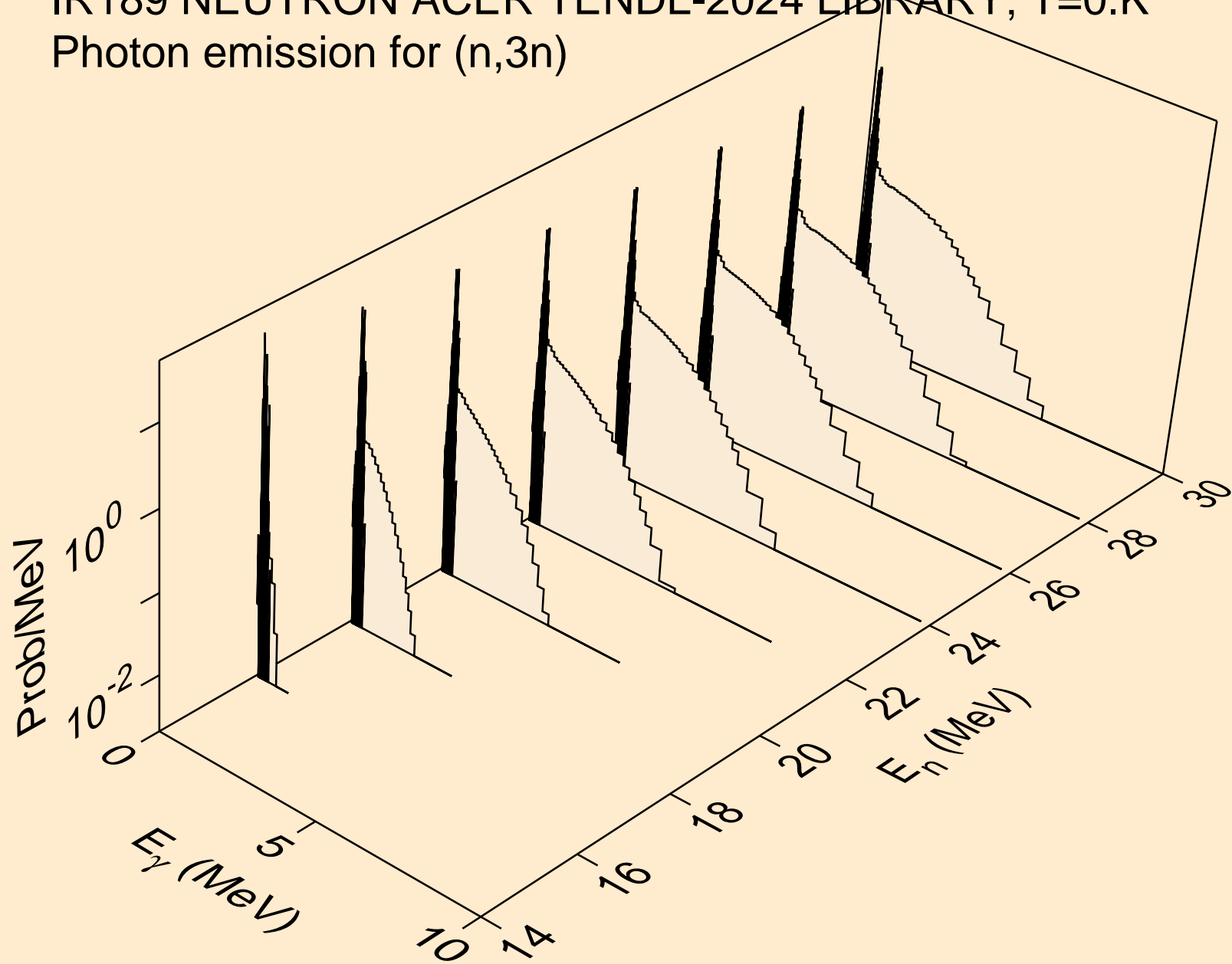
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Photon emission for (n,2nd)



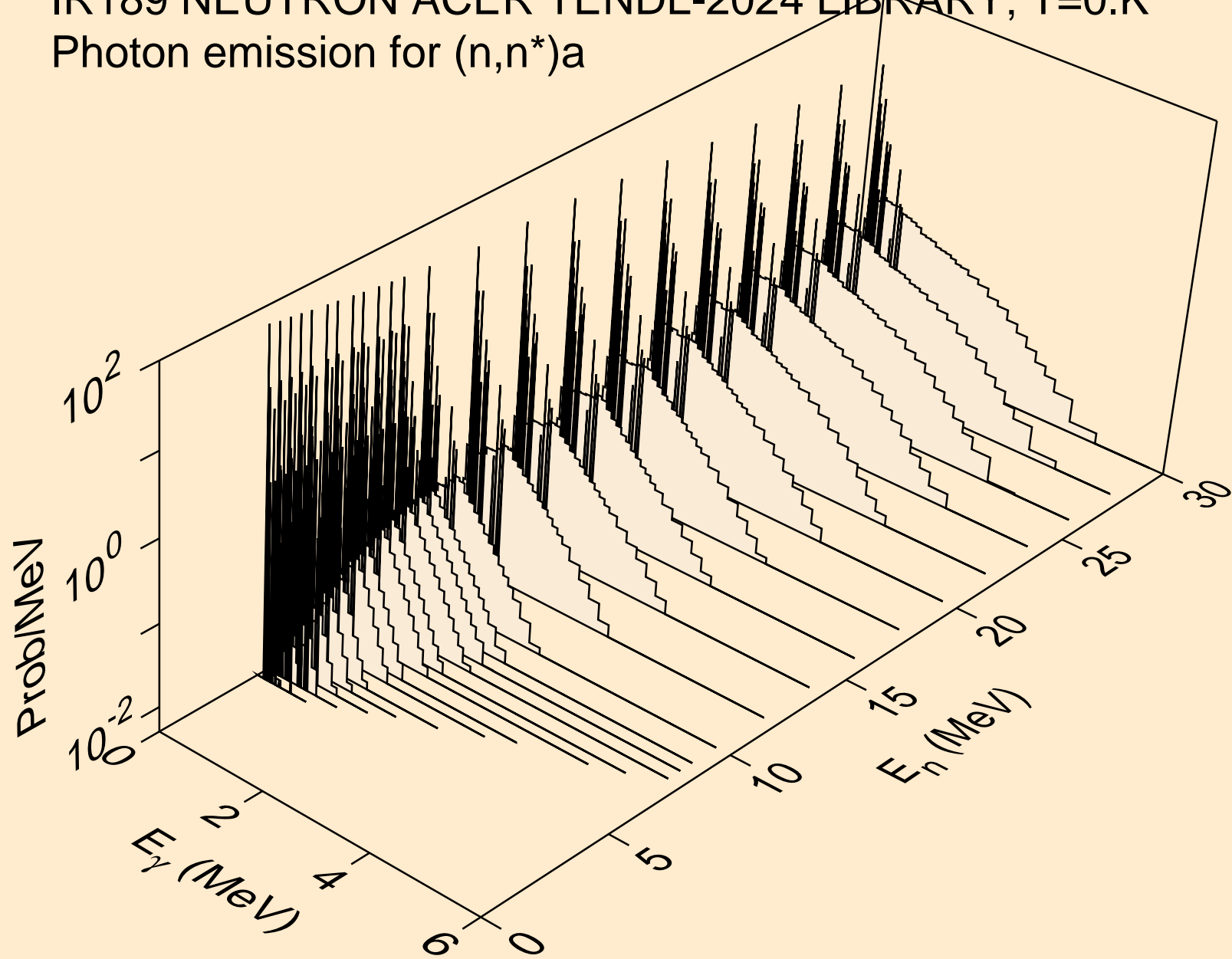
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Photon emission for (n,2n)



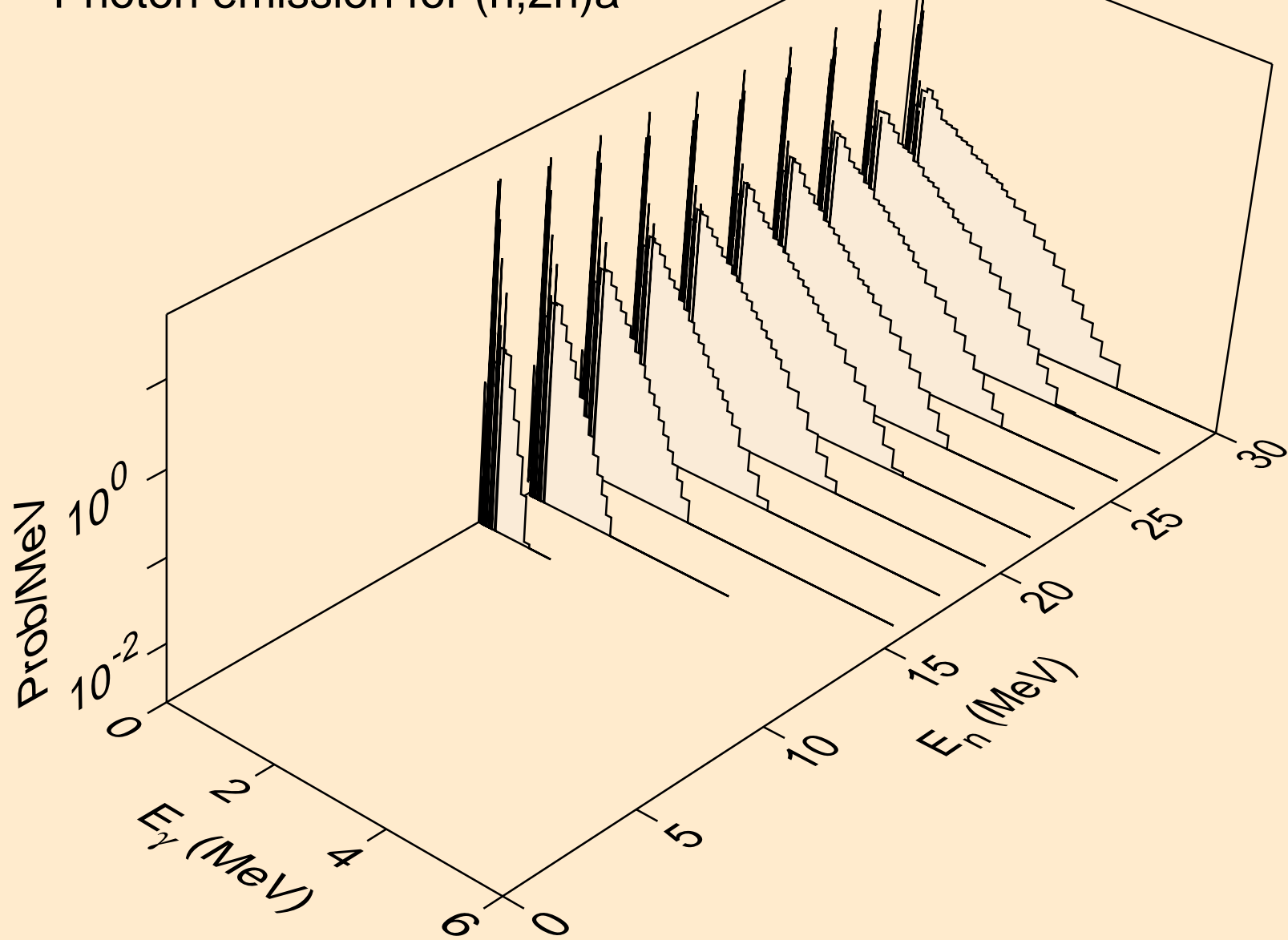
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Photon emission for (n,3n)



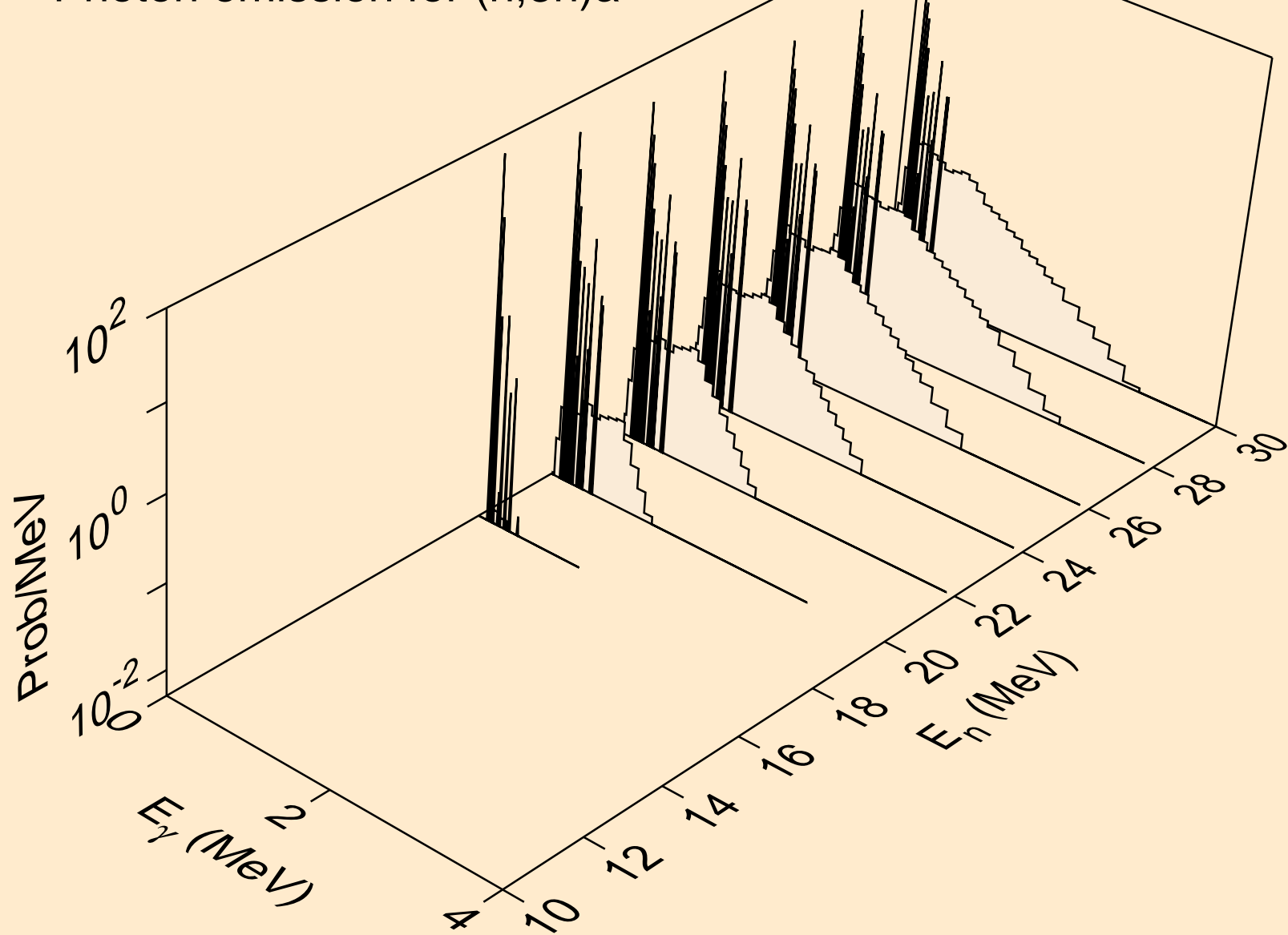
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Photon emission for (n,n\*)a



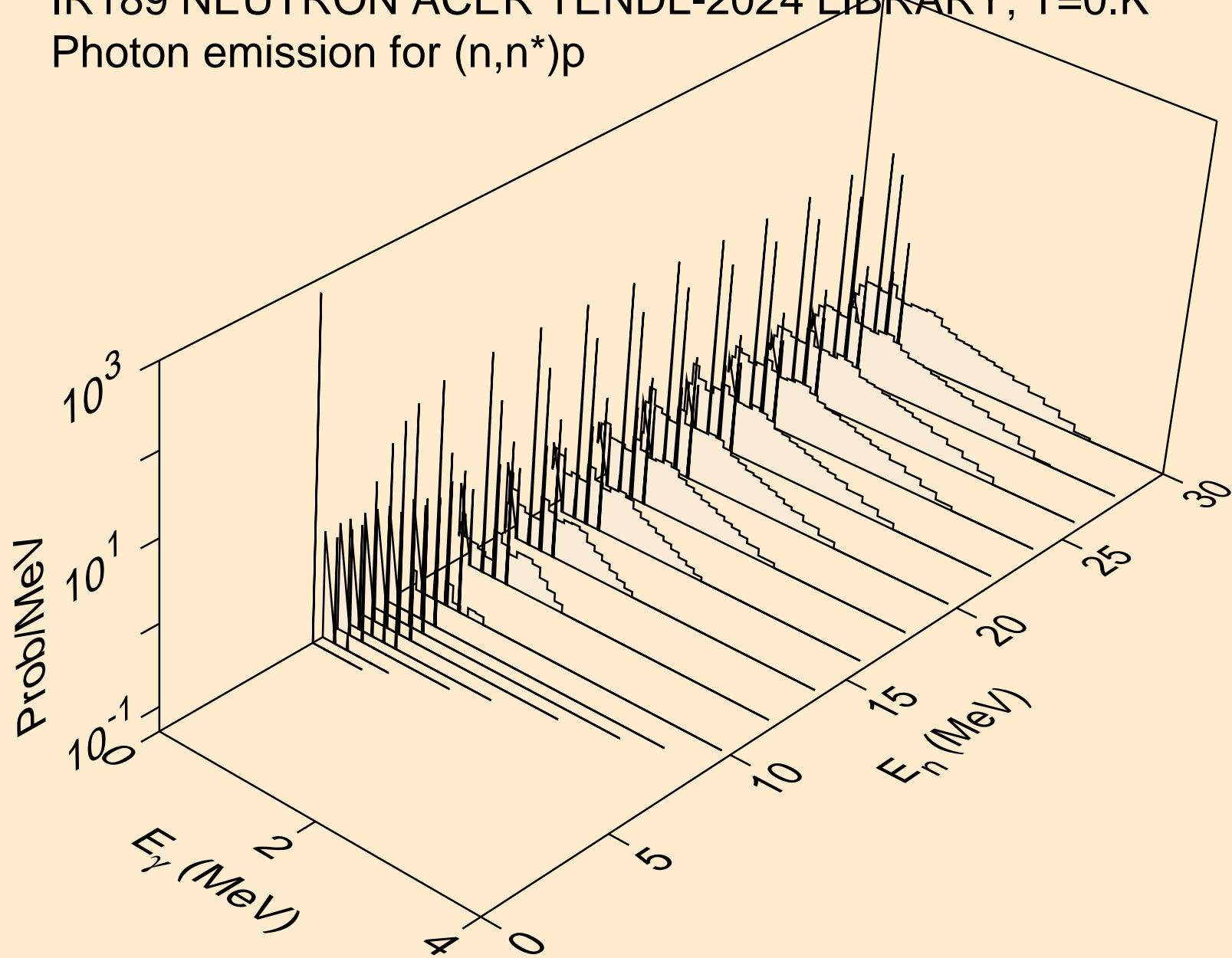
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Photon emission for (n,2n)a



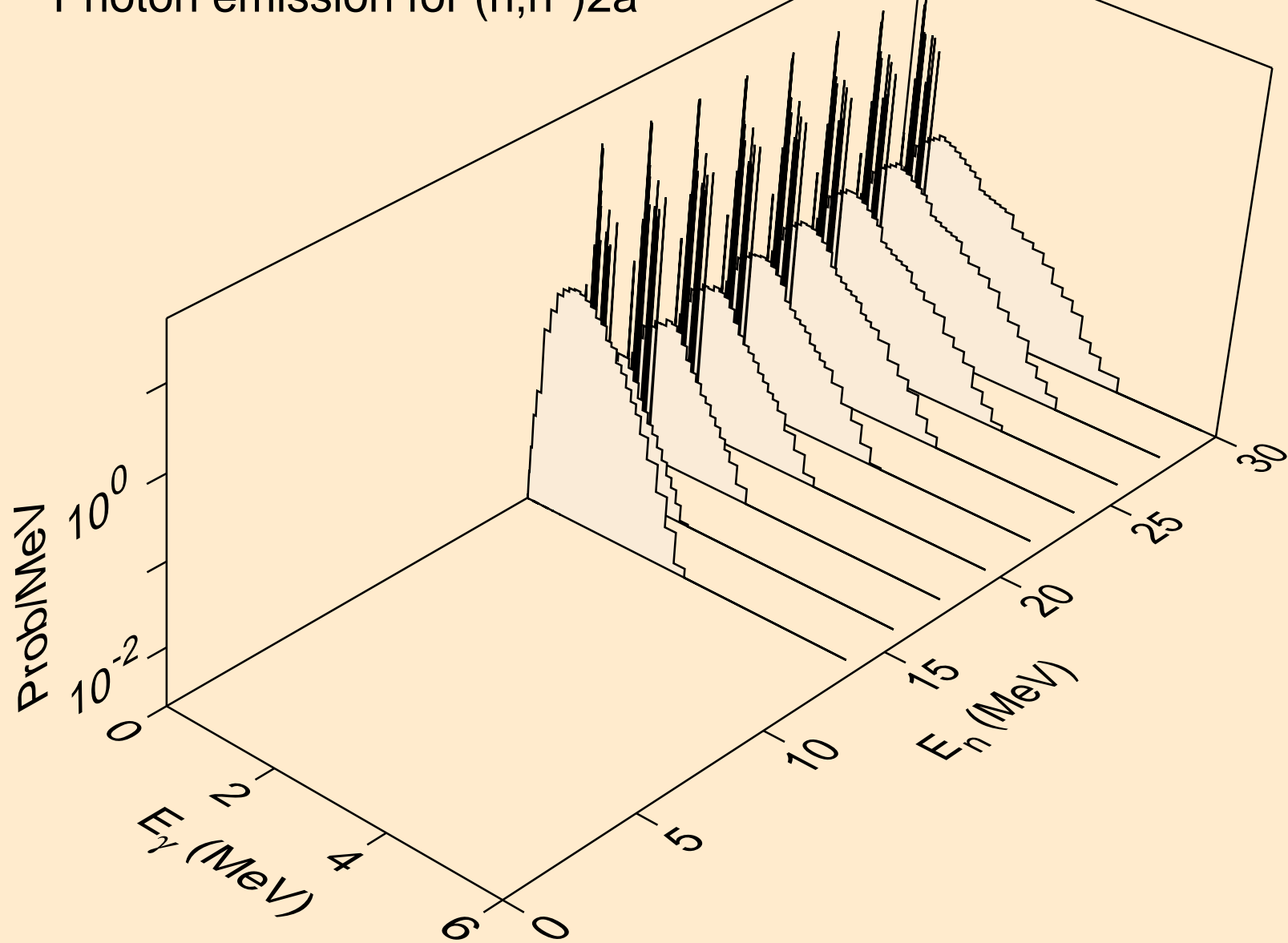
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Photon emission for (n,3n)a



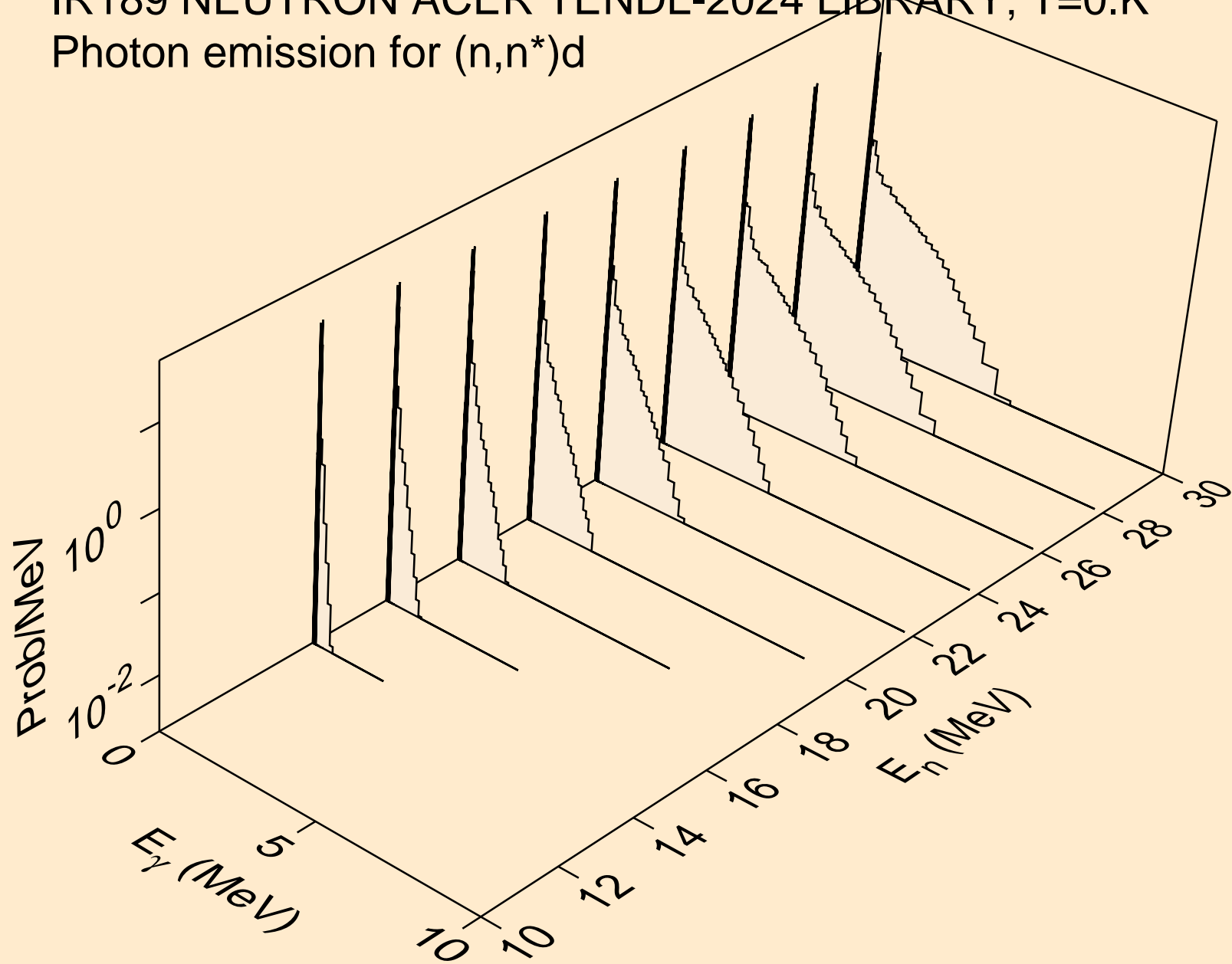
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



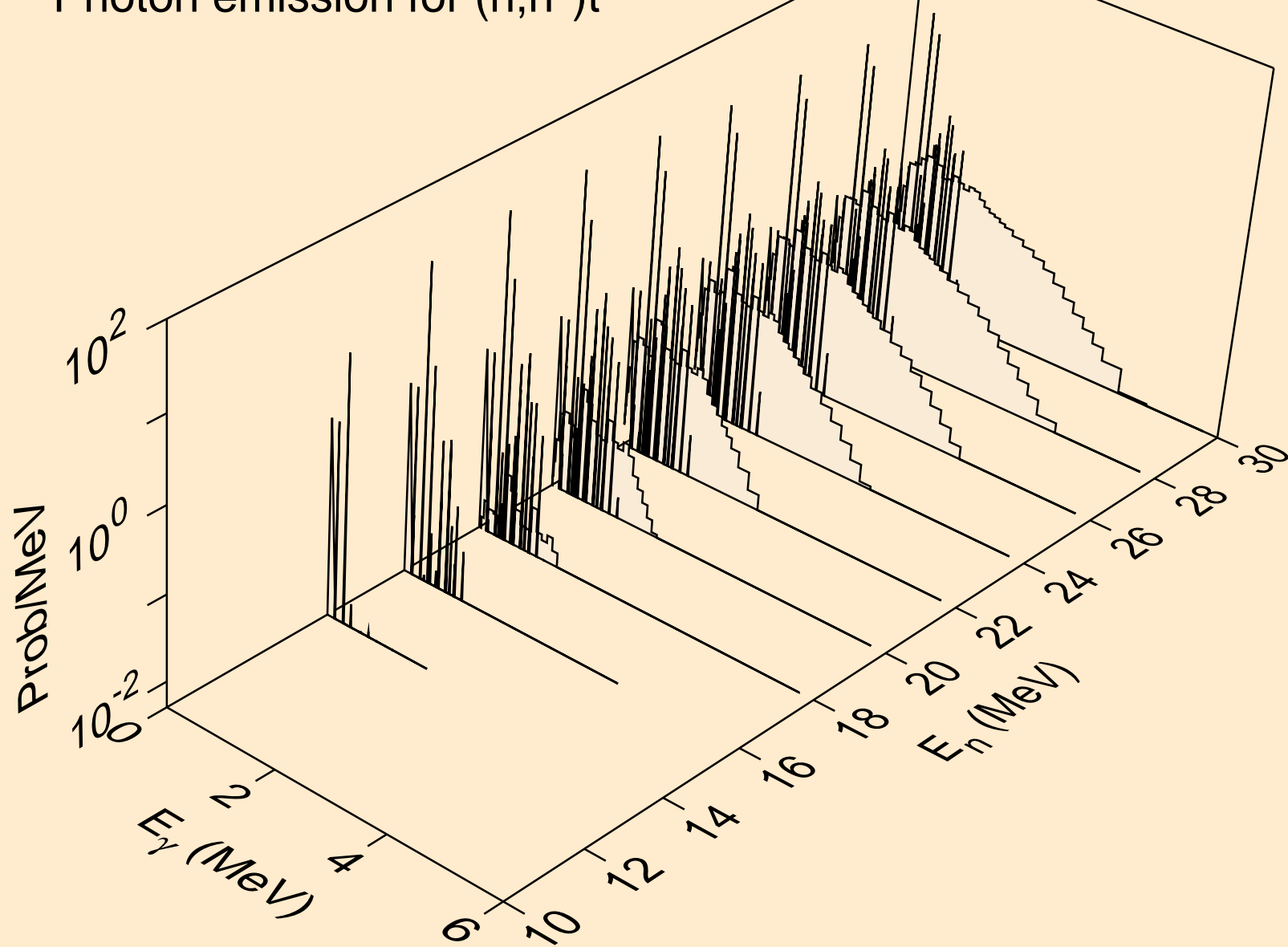
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Photon emission for (n,n\*)2a



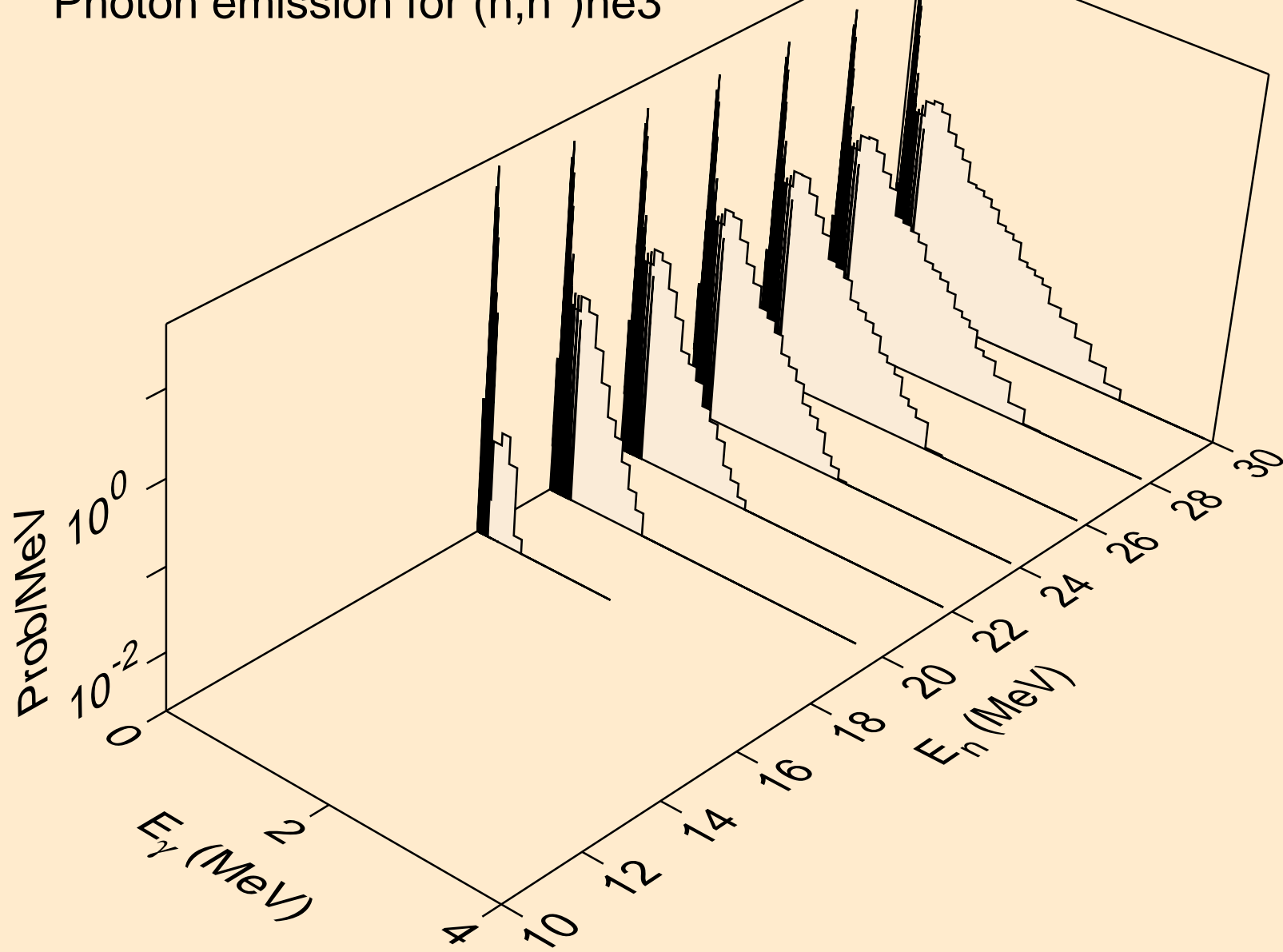
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Photon emission for (n,n\*)d



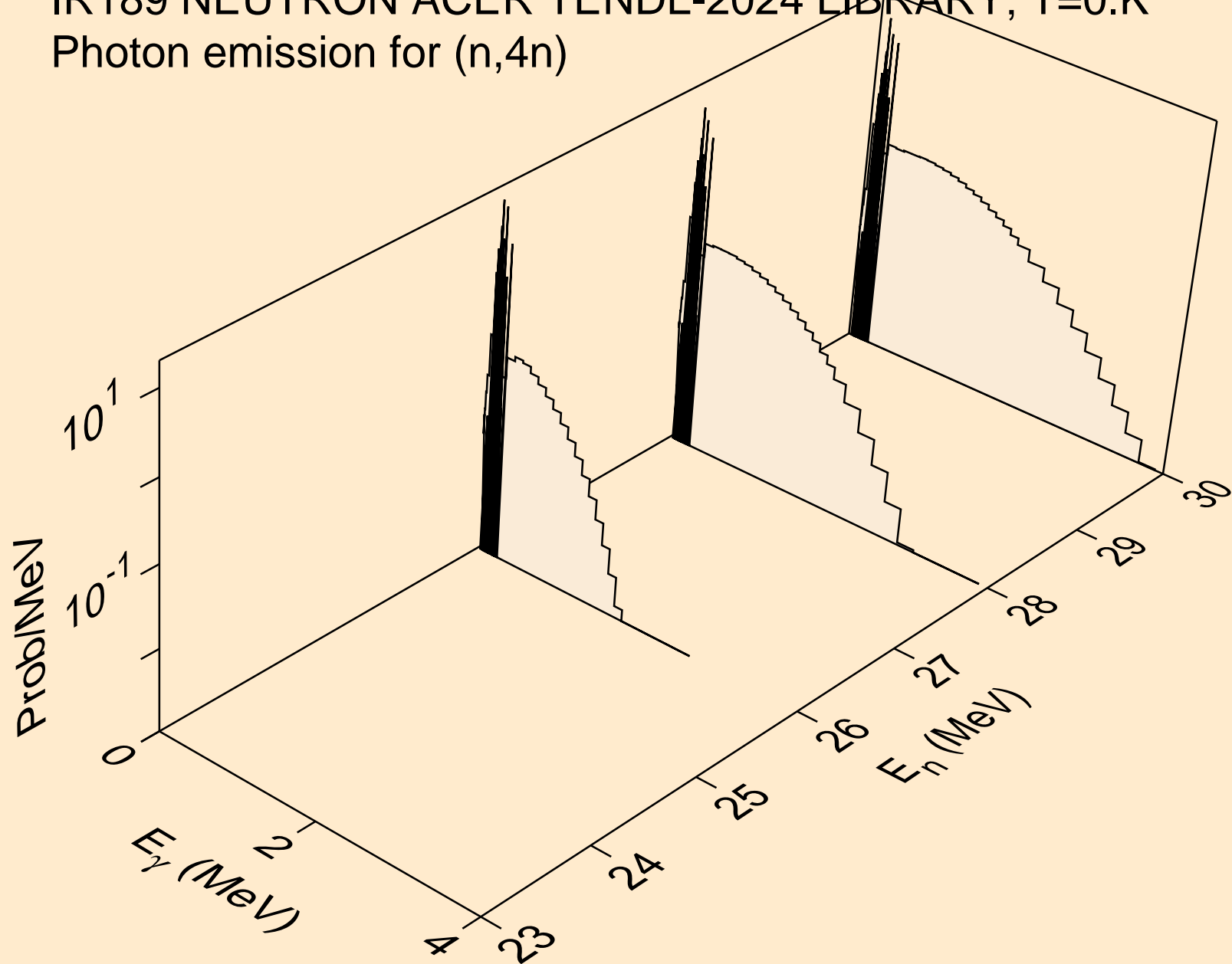
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



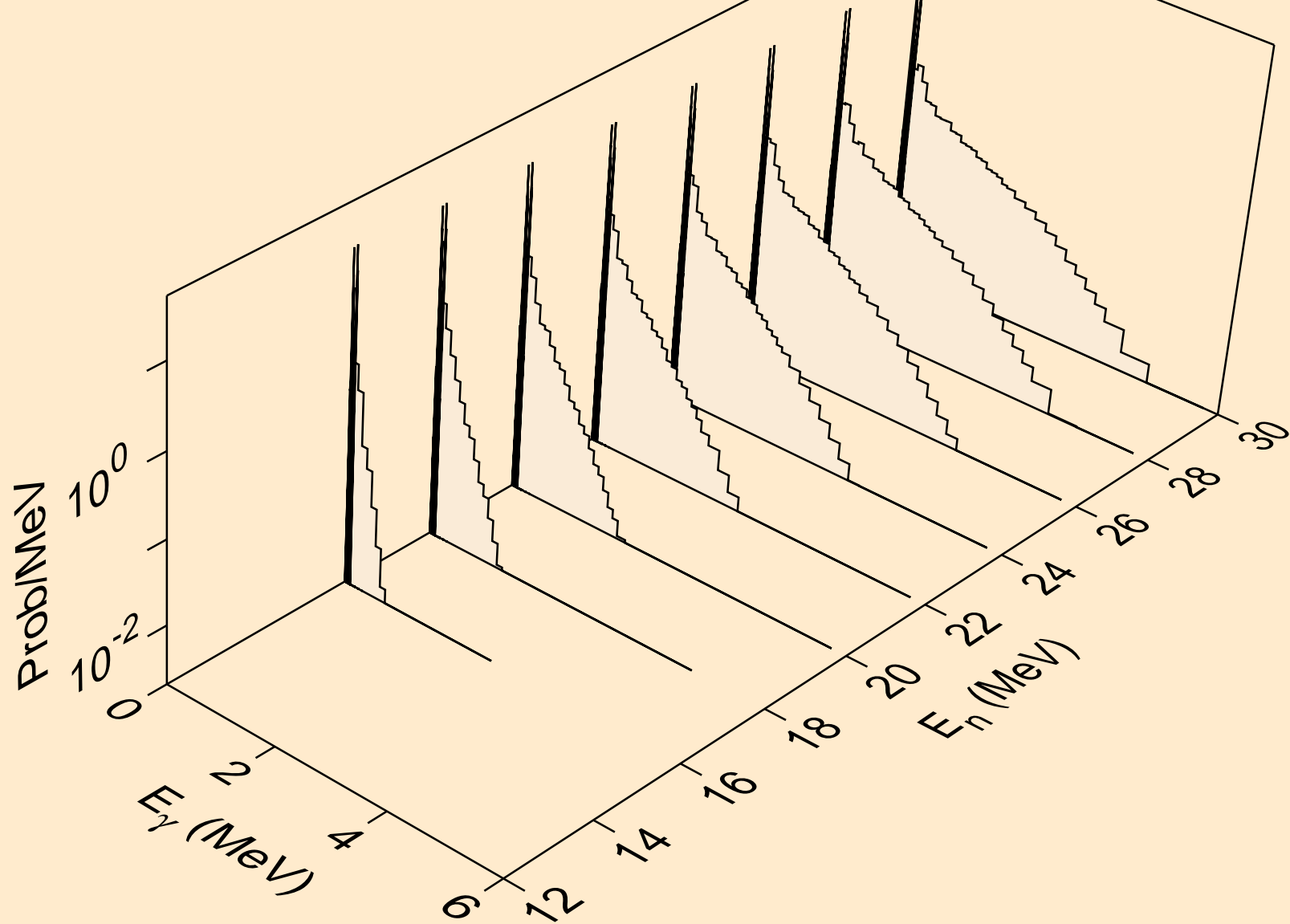
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



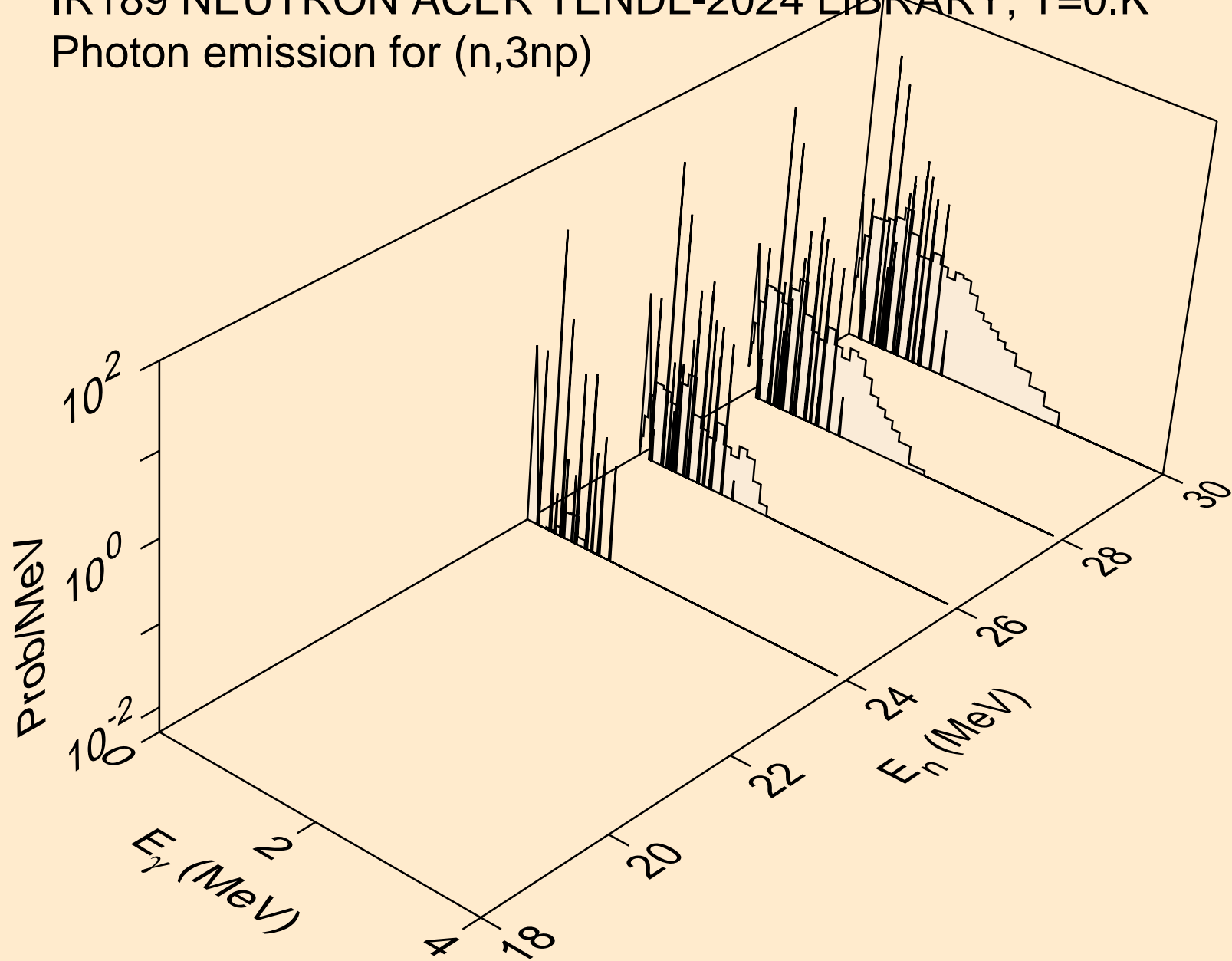
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Photon emission for (n,4n)



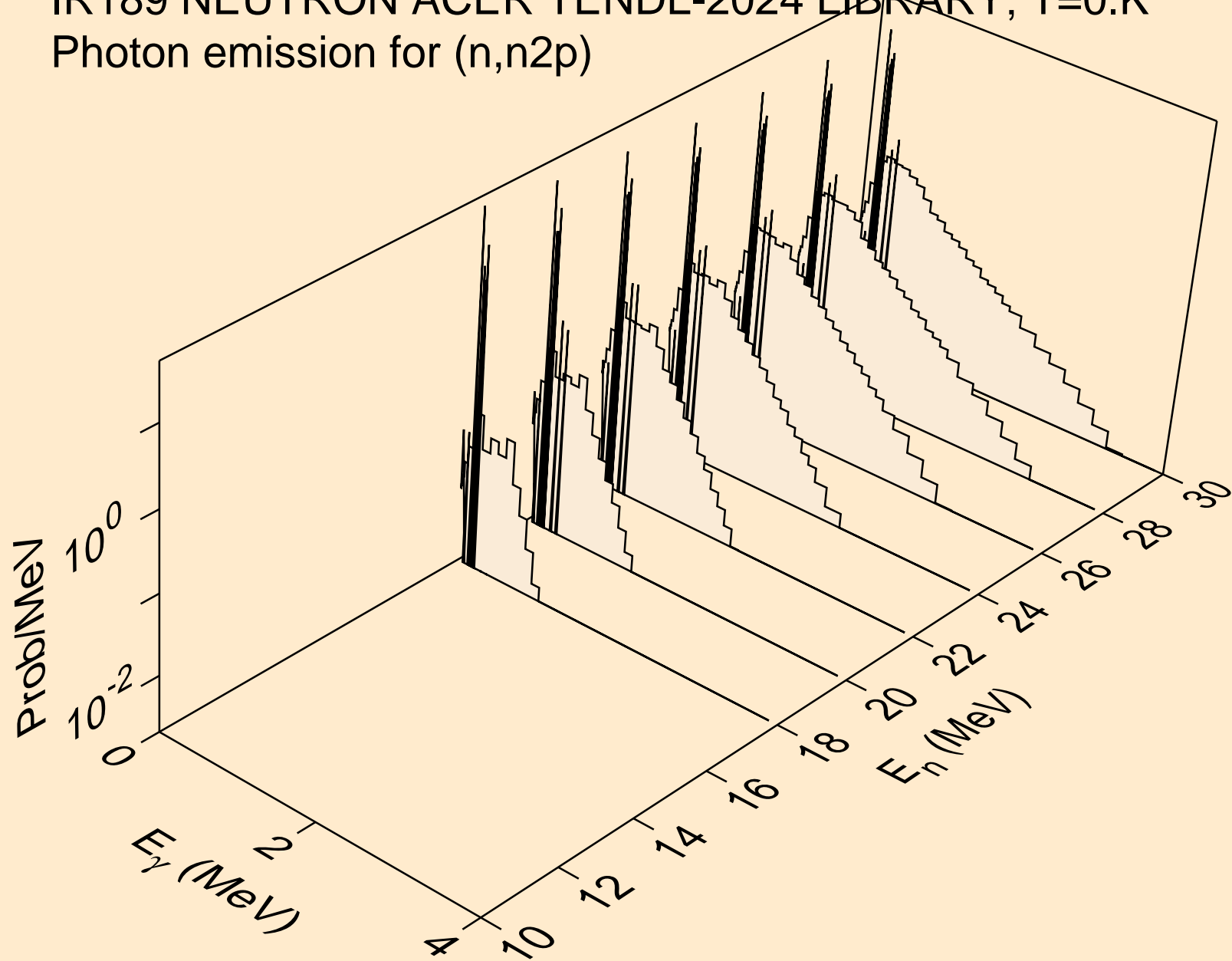
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Photon emission for (n,2np)



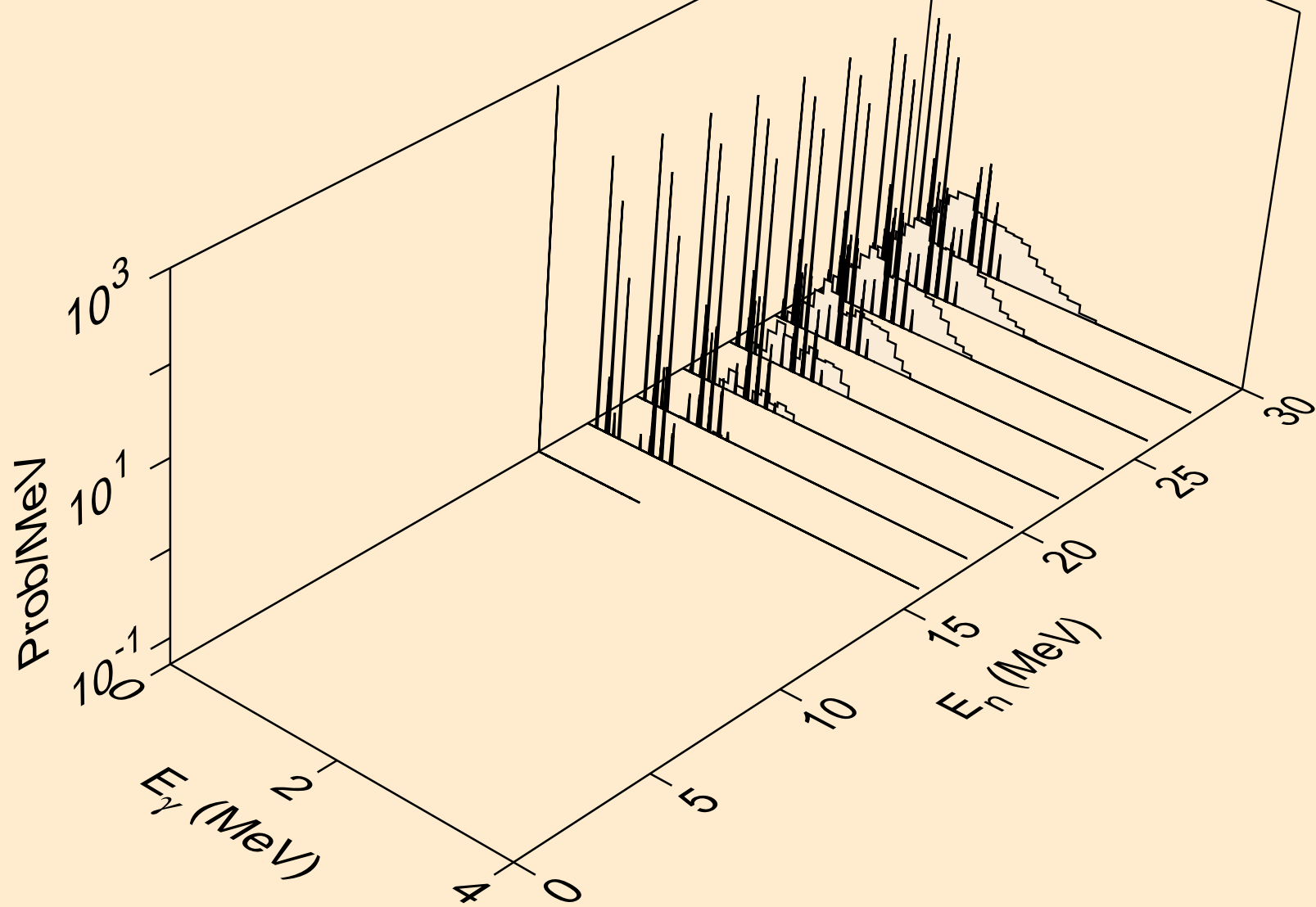
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Photon emission for (n,3np)



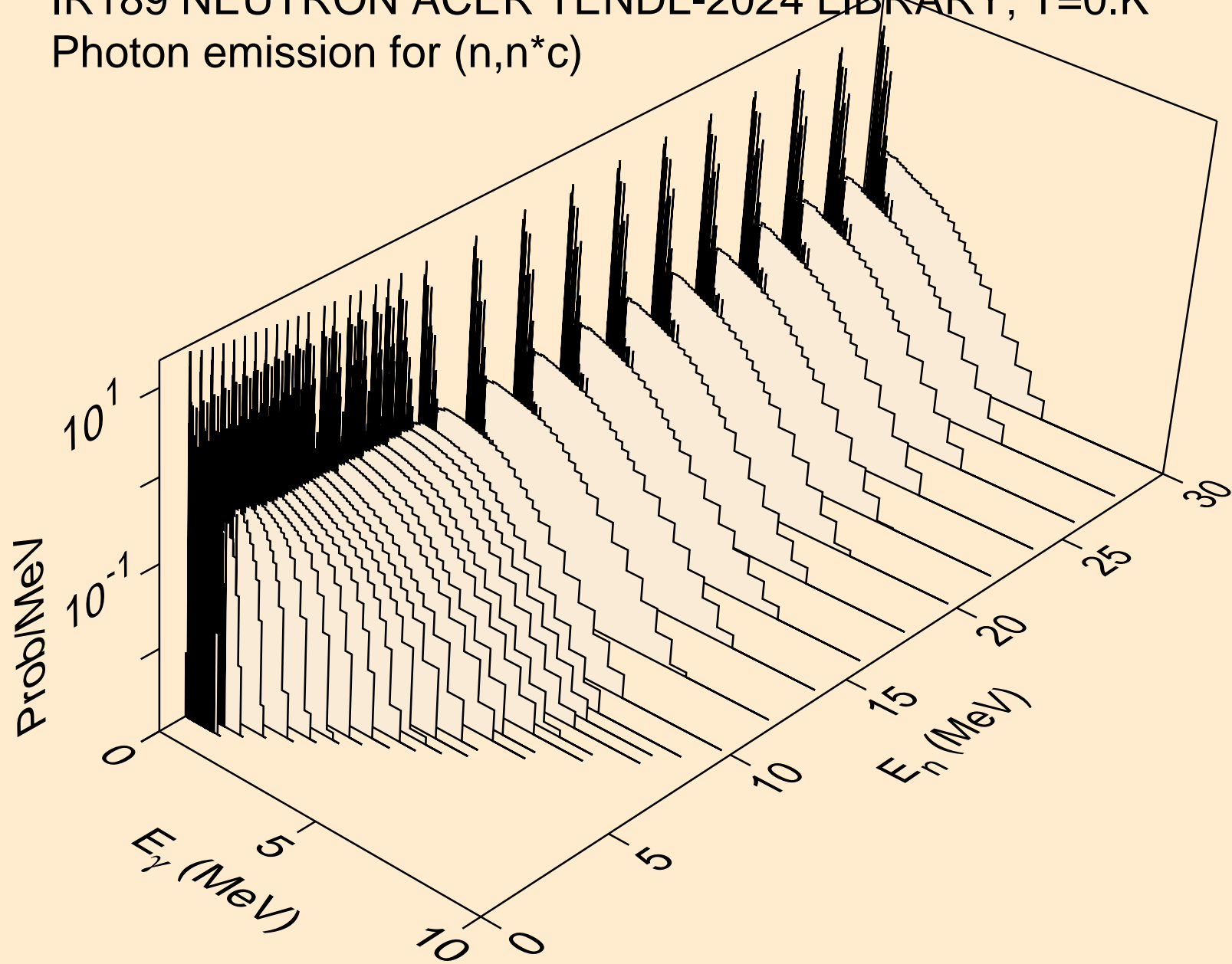
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Photon emission for (n,n2p)



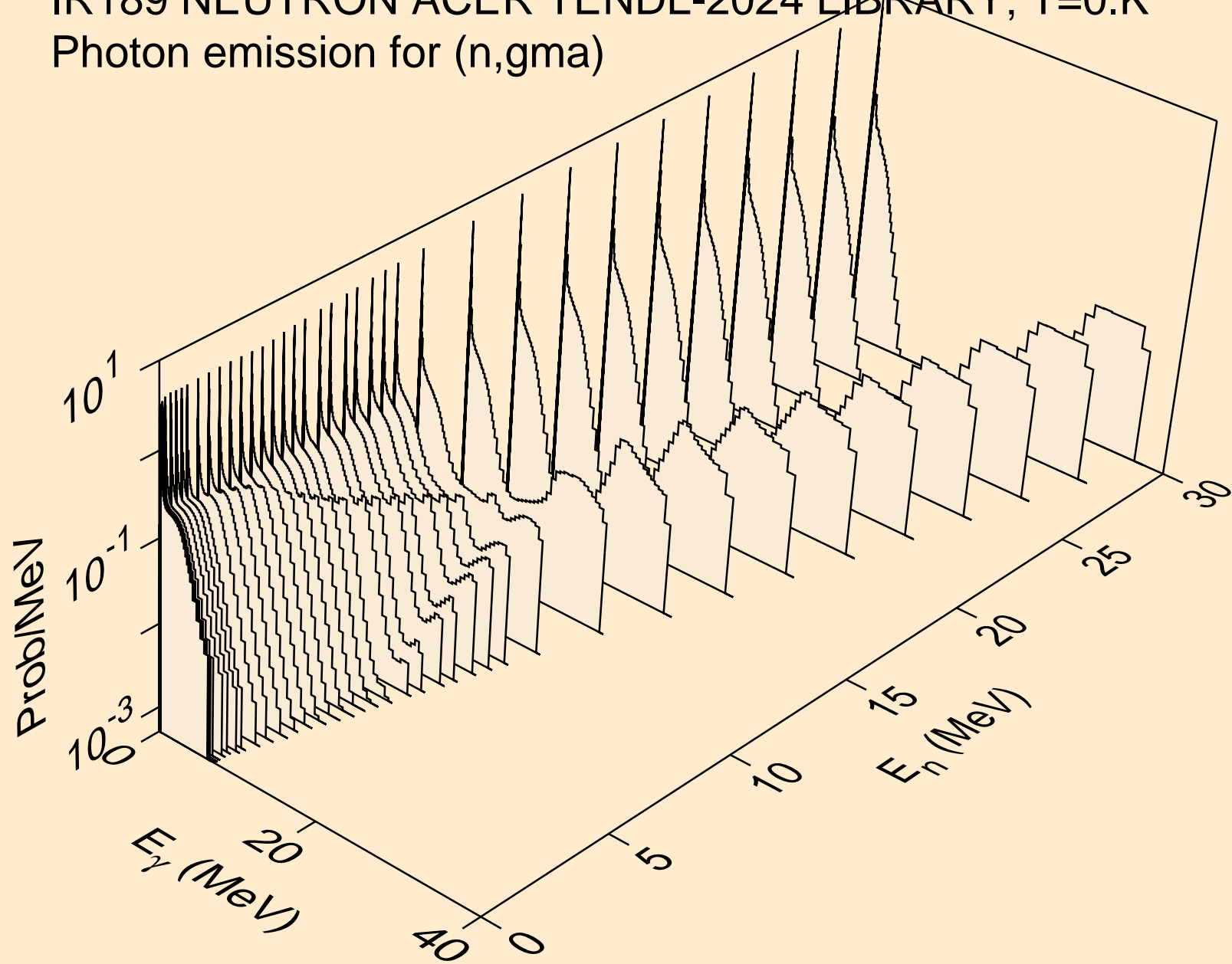
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Photon emission for (n,npa)



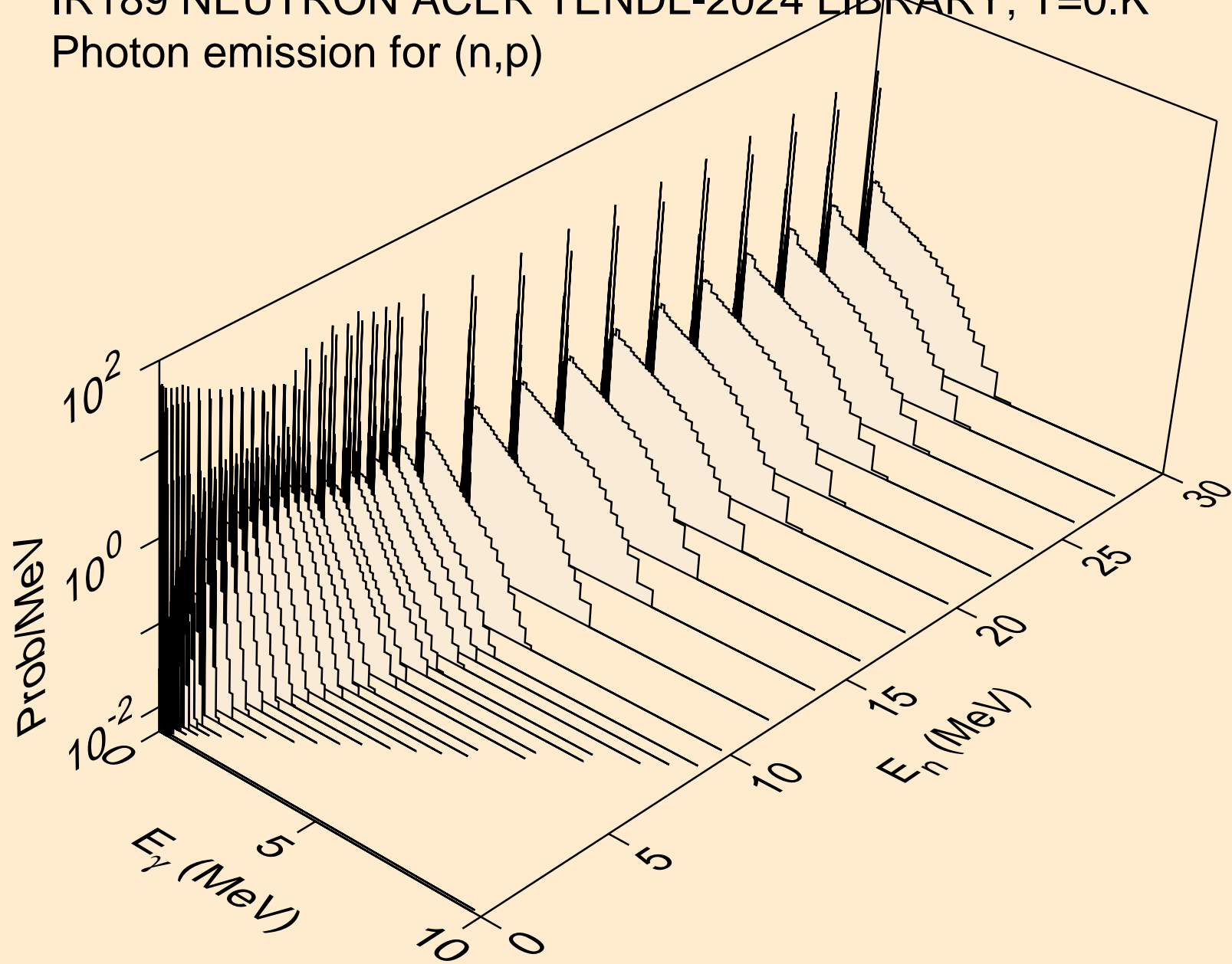
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Photon emission for (n,n\*c)



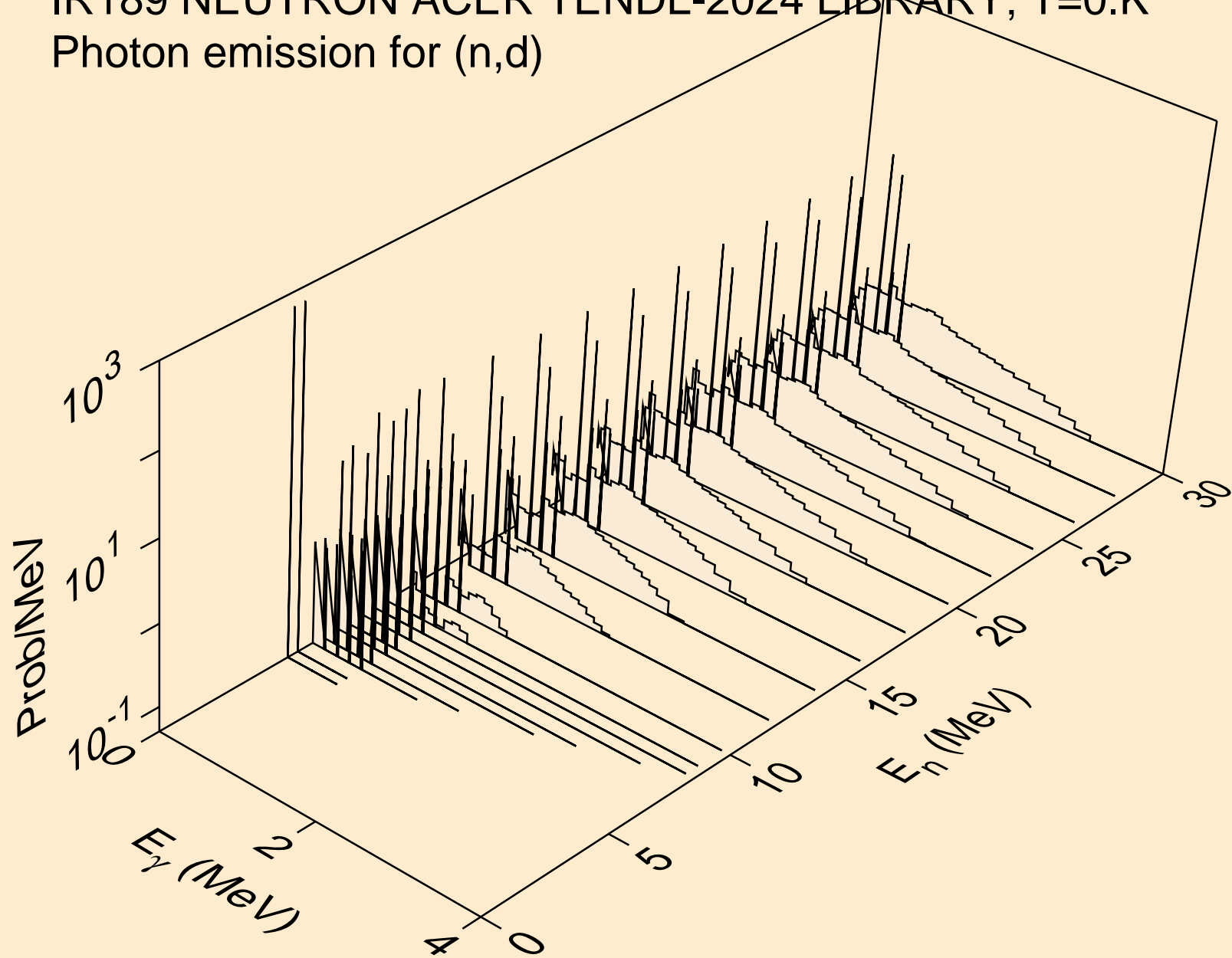
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Photon emission for (n,gma)



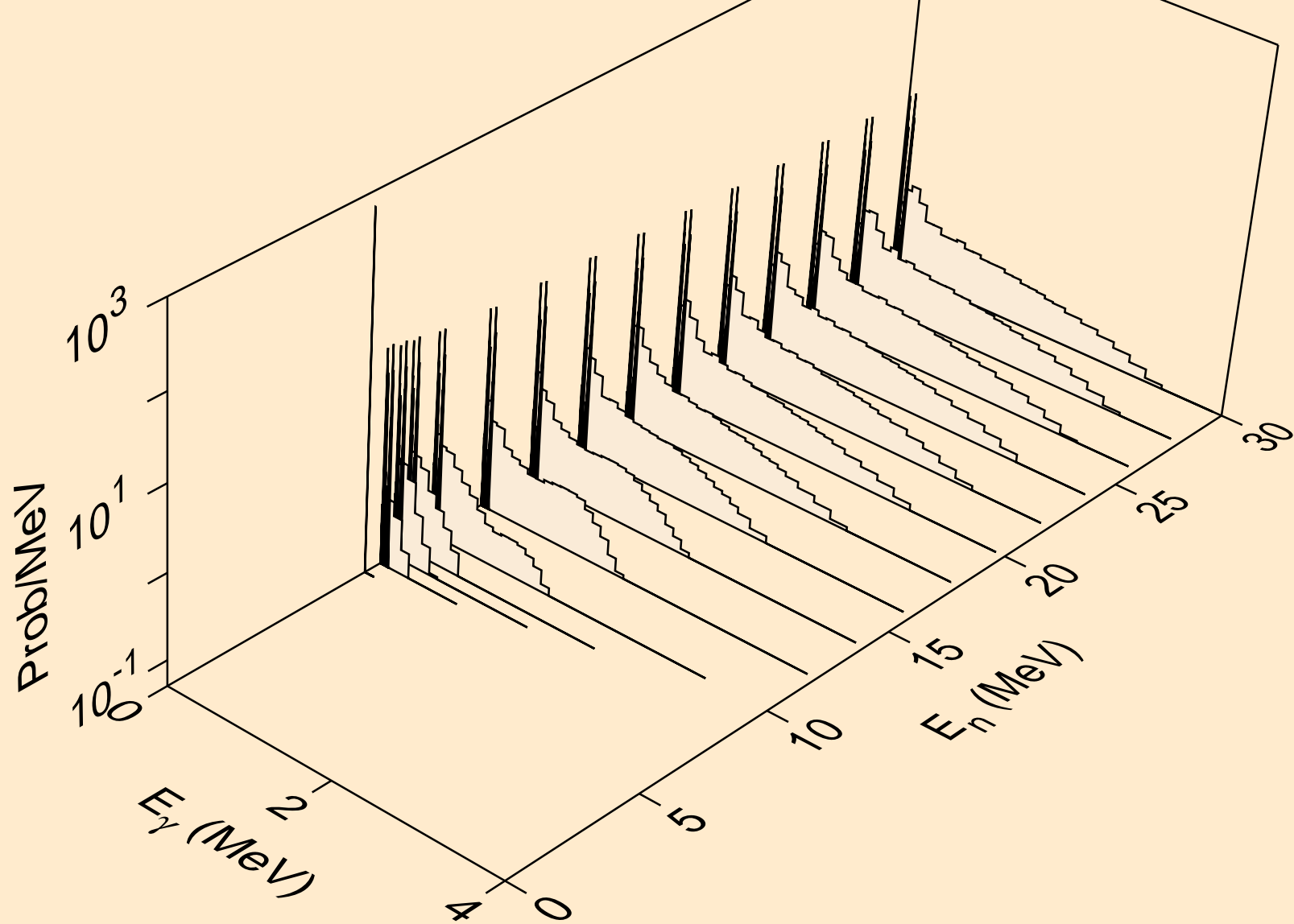
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Photon emission for (n,p)



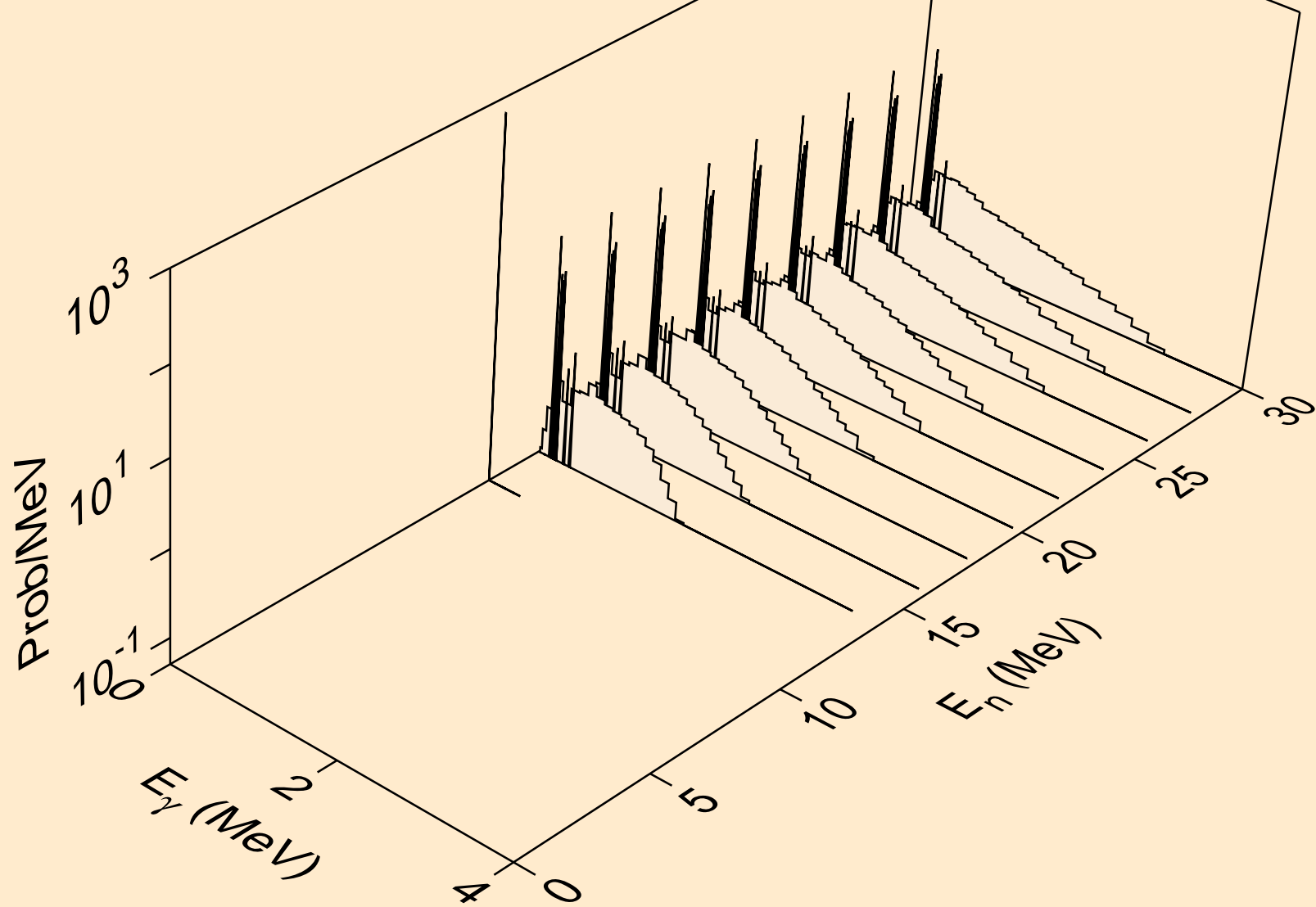
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Photon emission for (n,d)



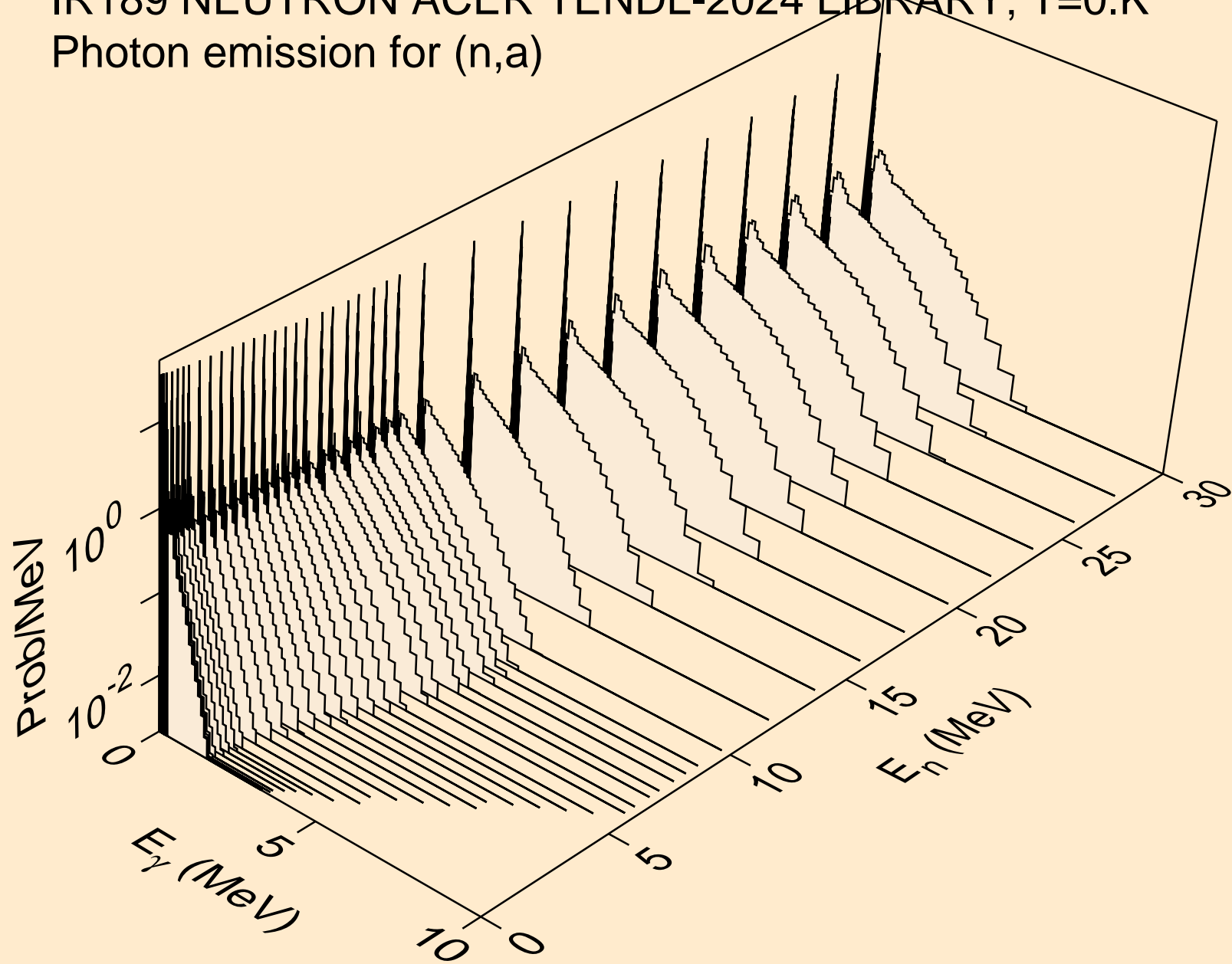
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Photon emission for (n,t)



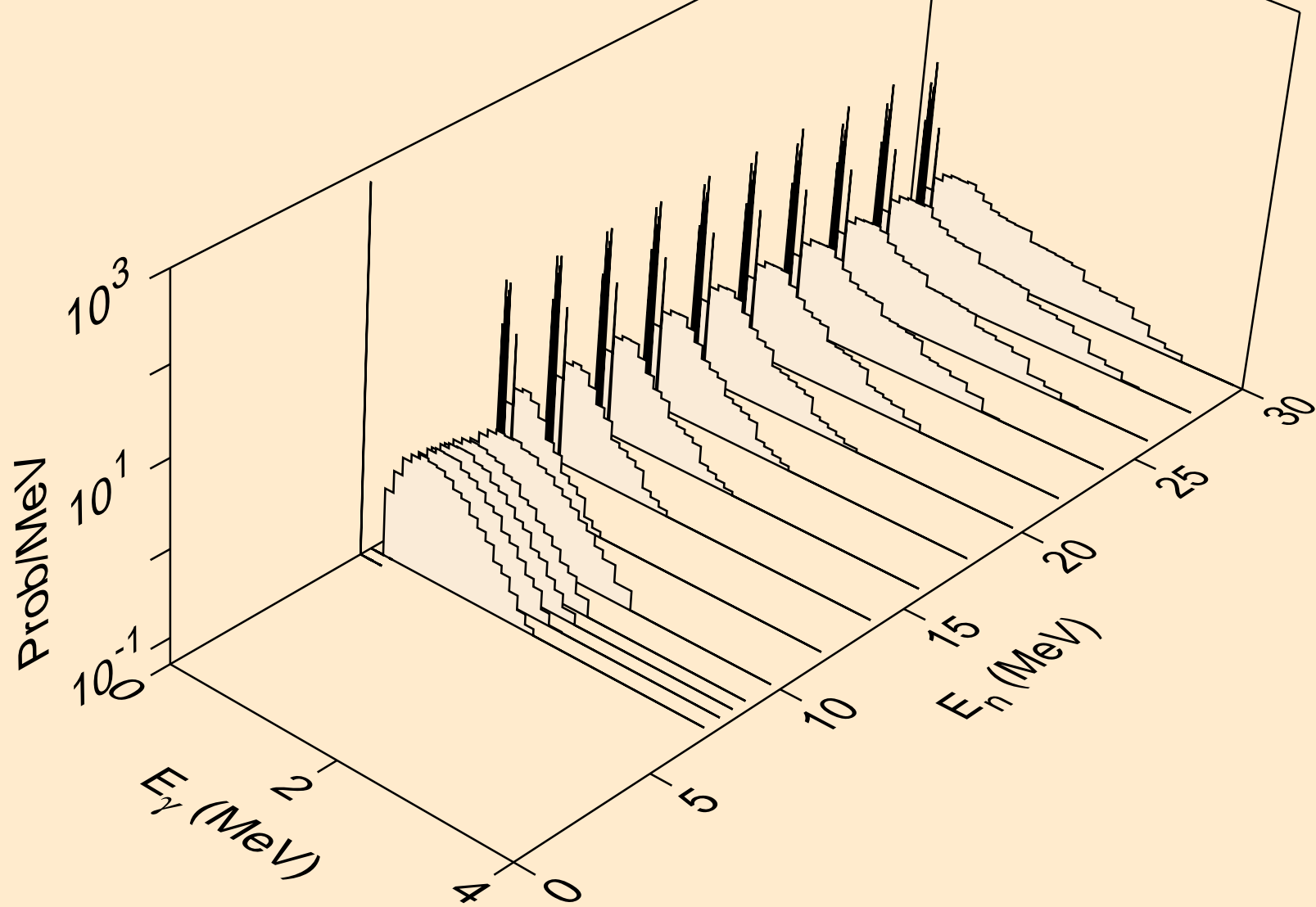
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Photon emission for (n,he3)



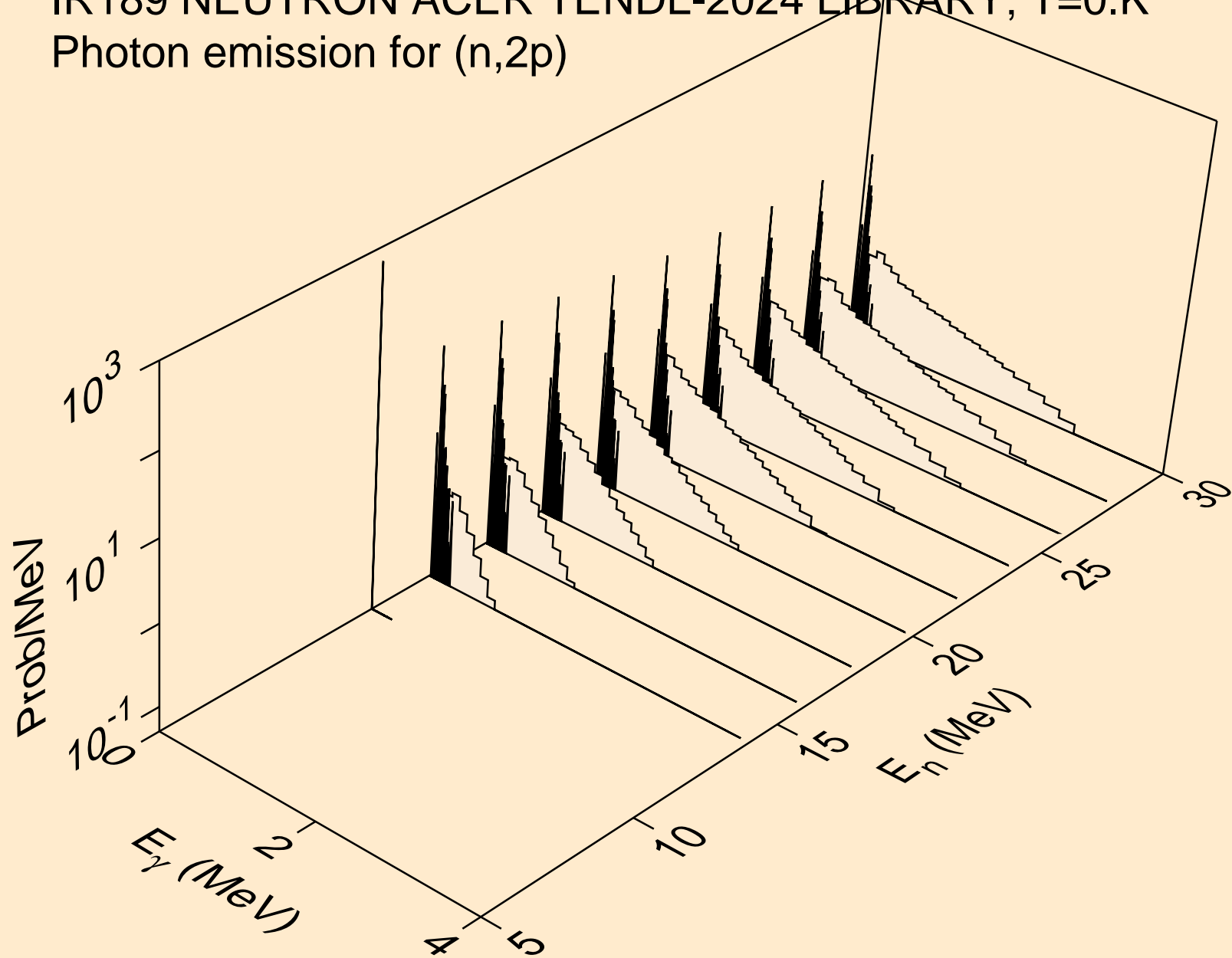
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Photon emission for (n,a)



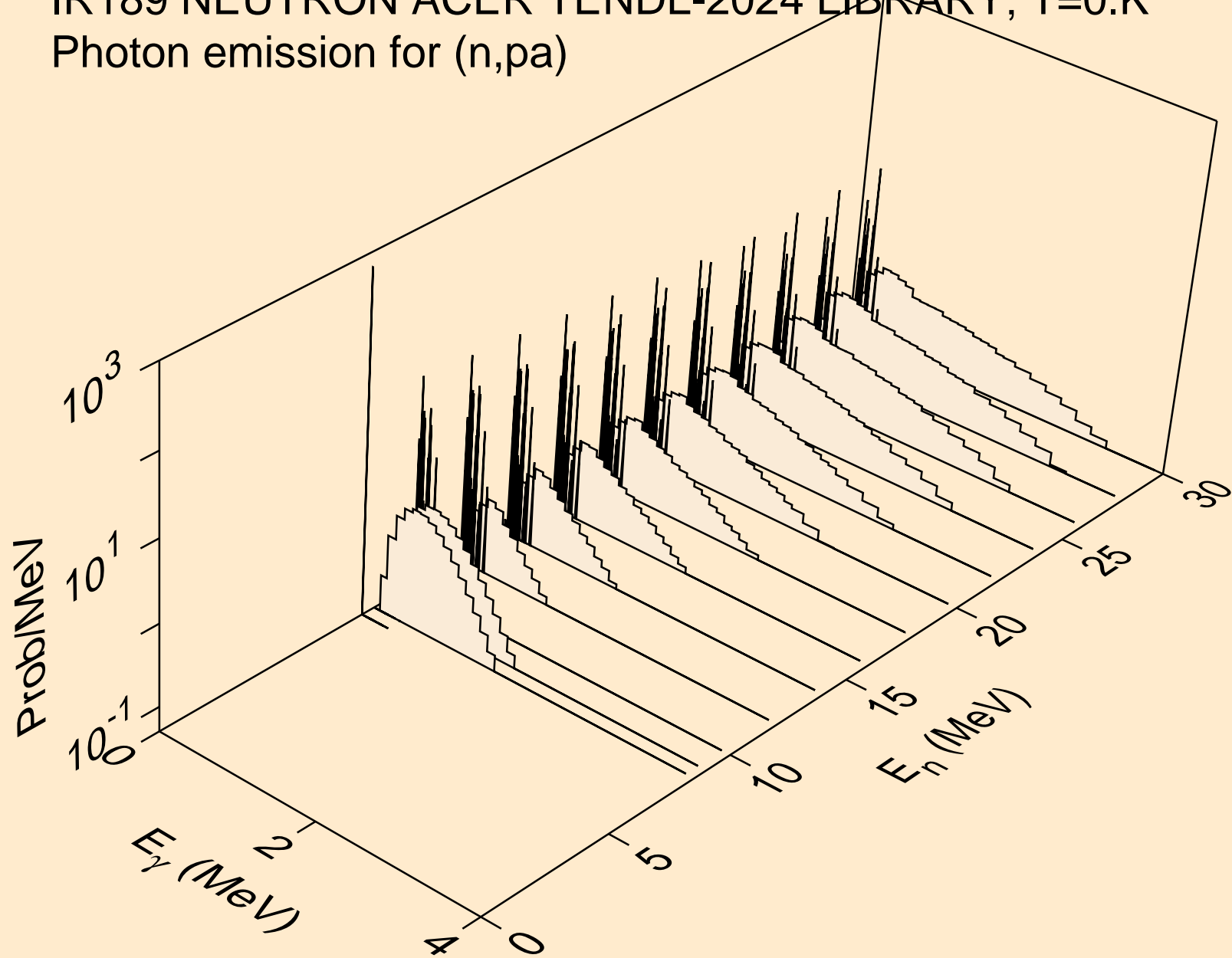
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Photon emission for (n,2a)



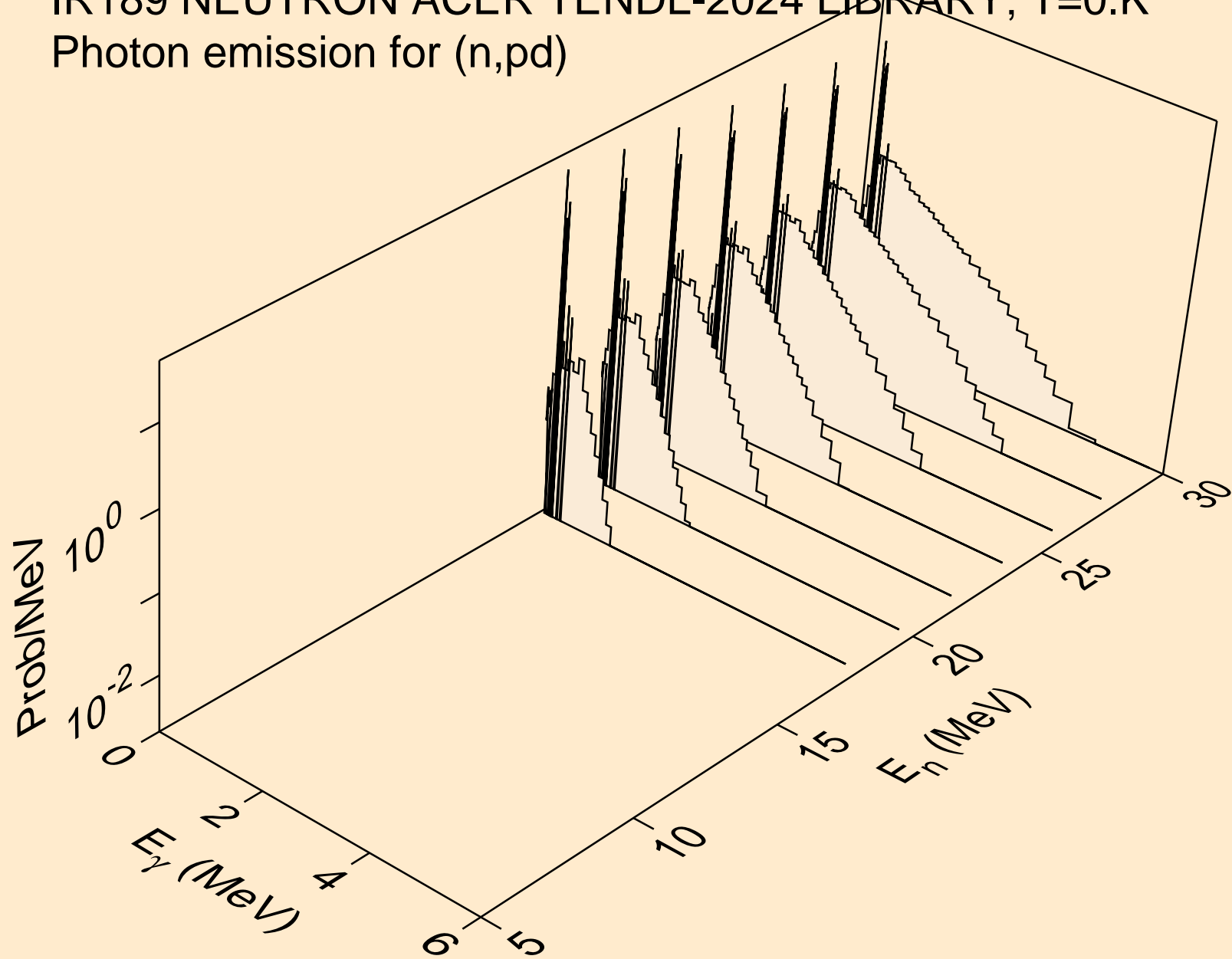
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Photon emission for (n,2p)



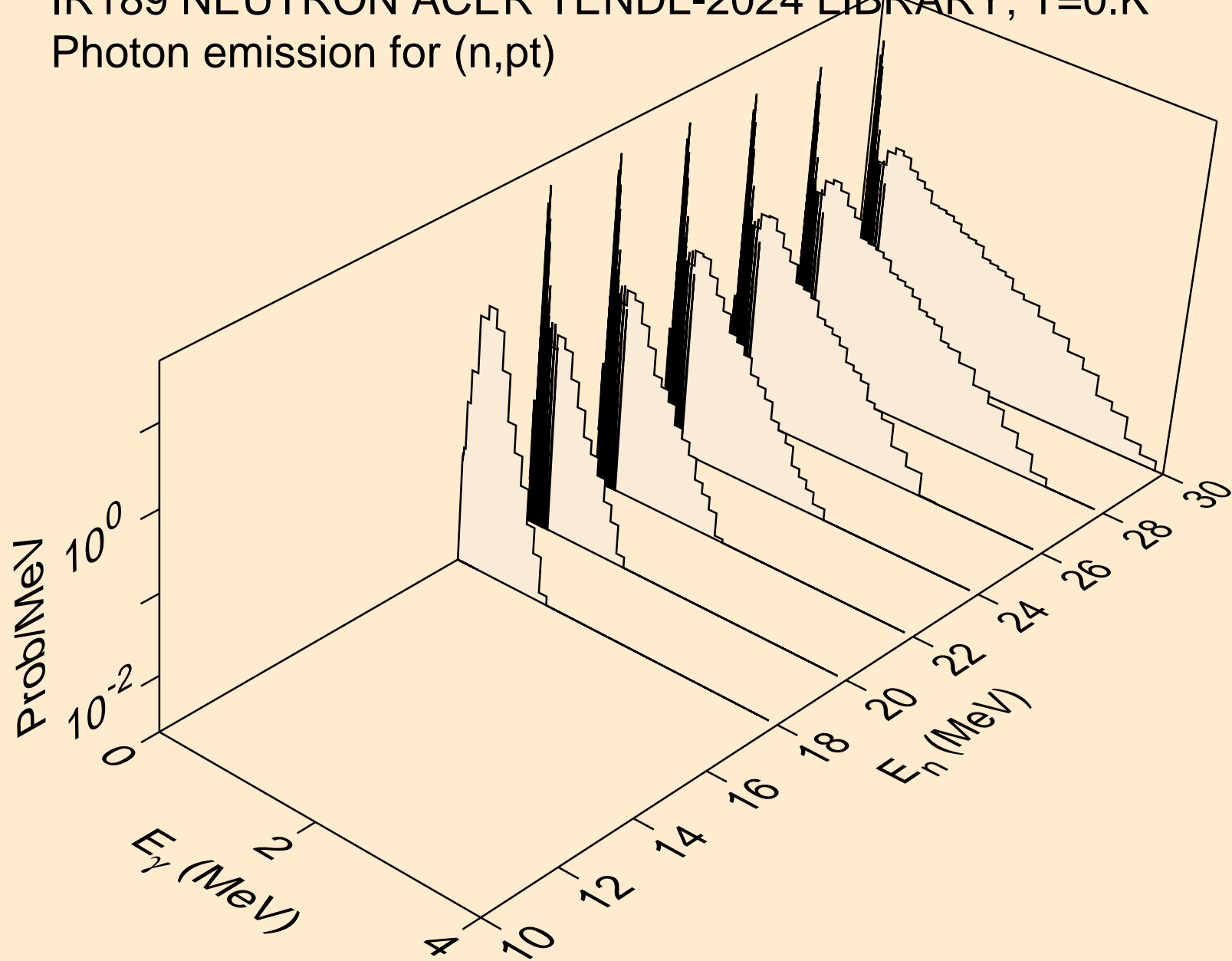
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Photon emission for (n,p)



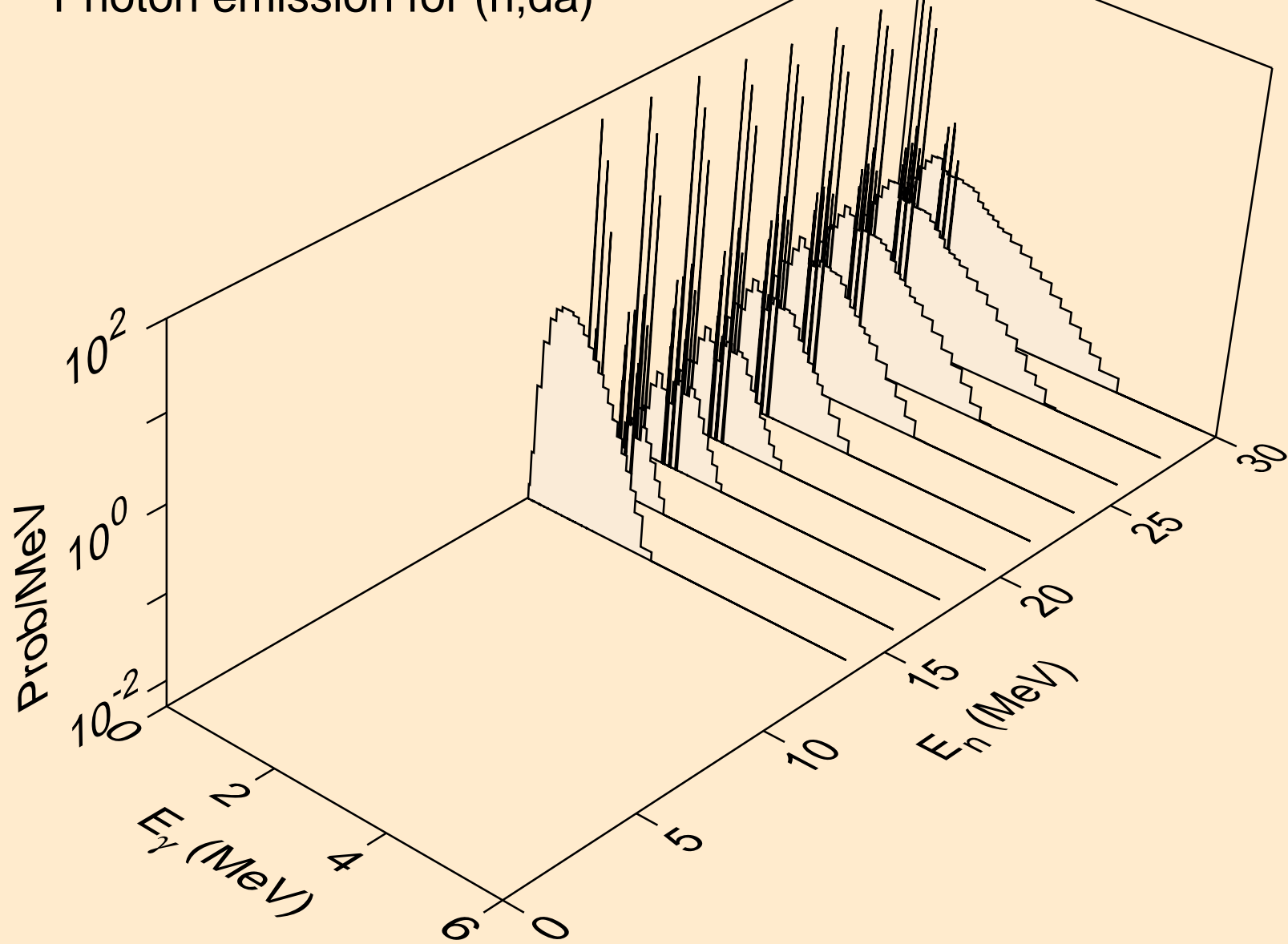
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Photon emission for (n,pd)



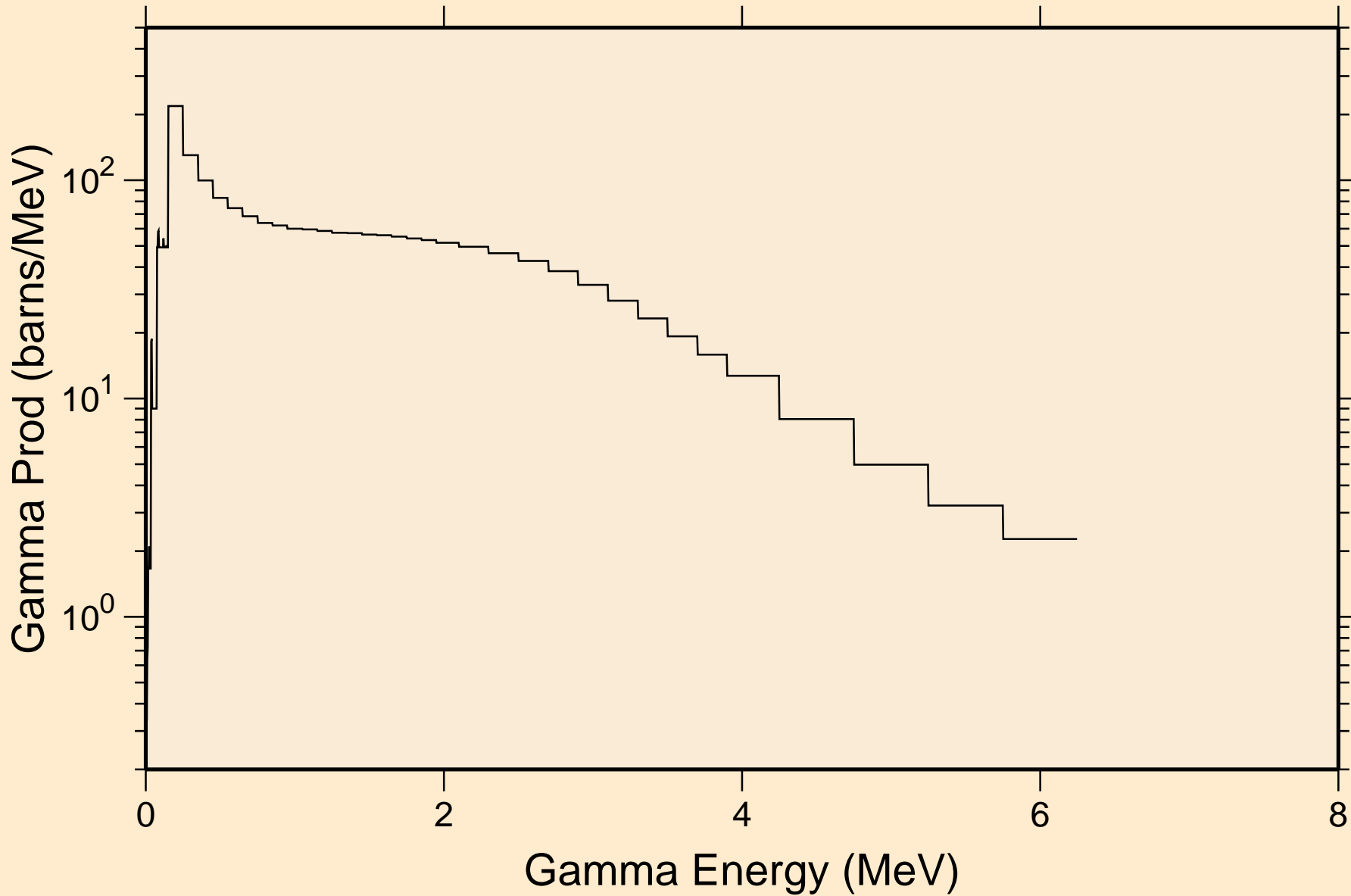
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Photon emission for (n,pt)



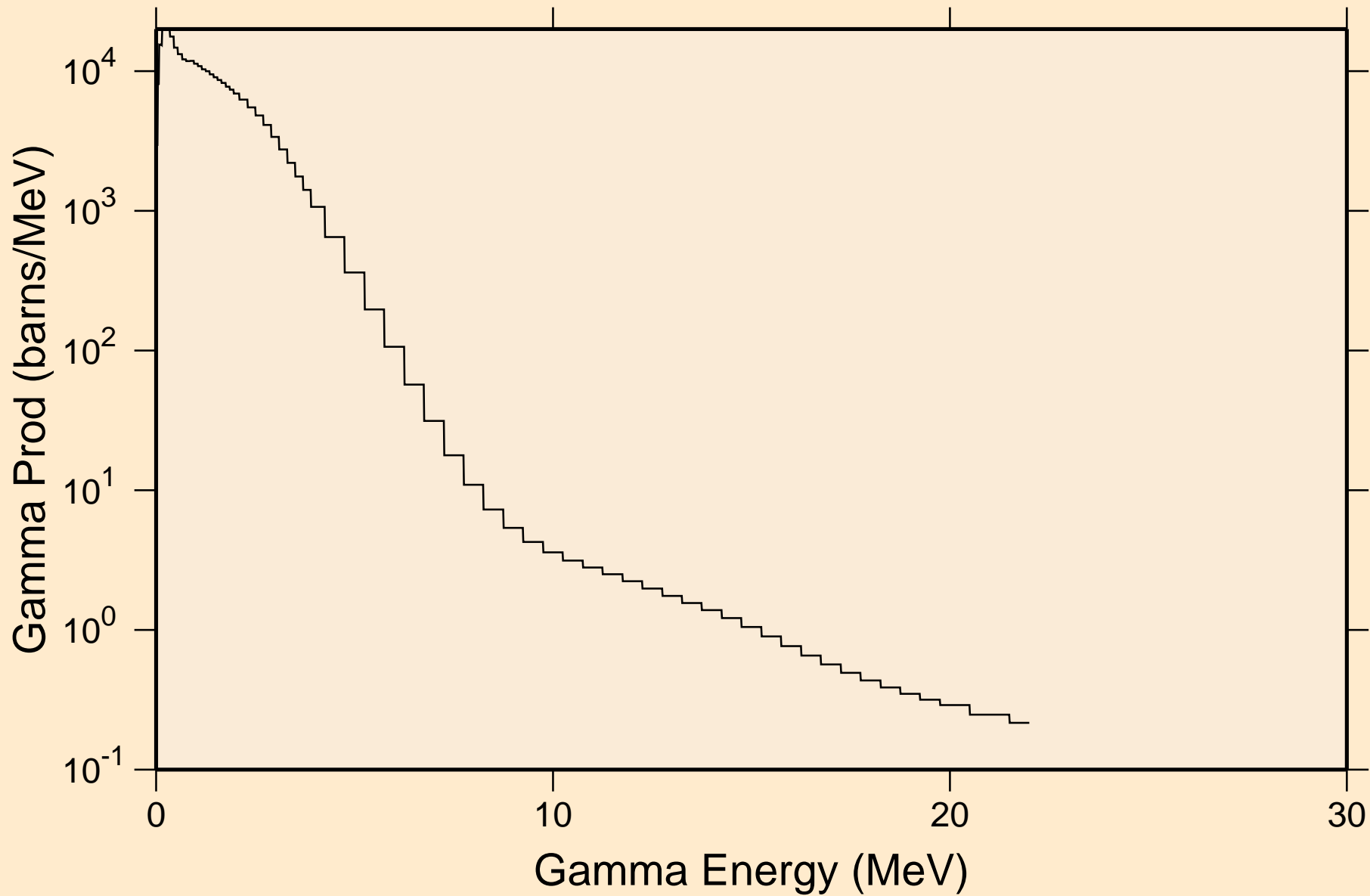
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

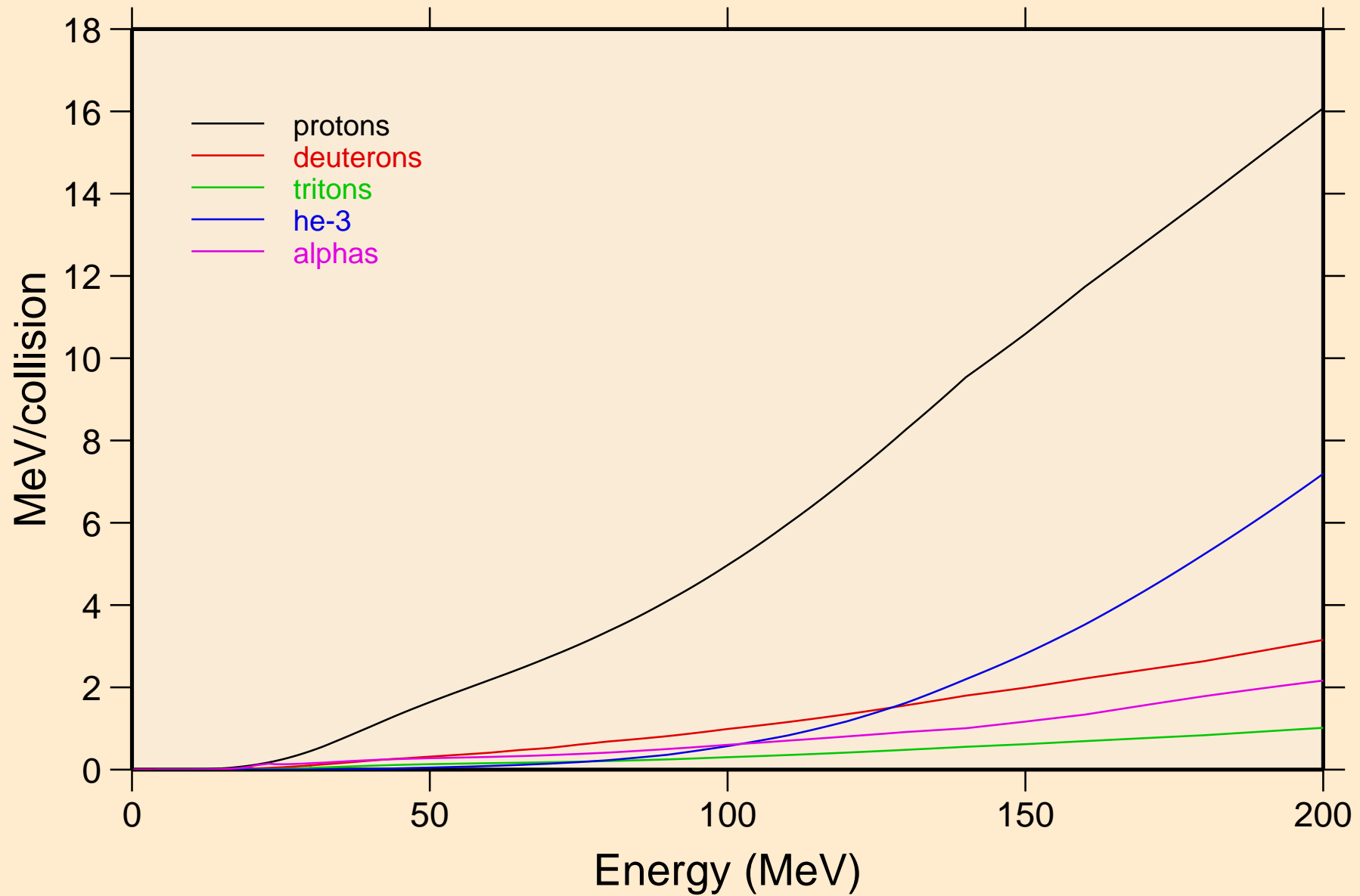


IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

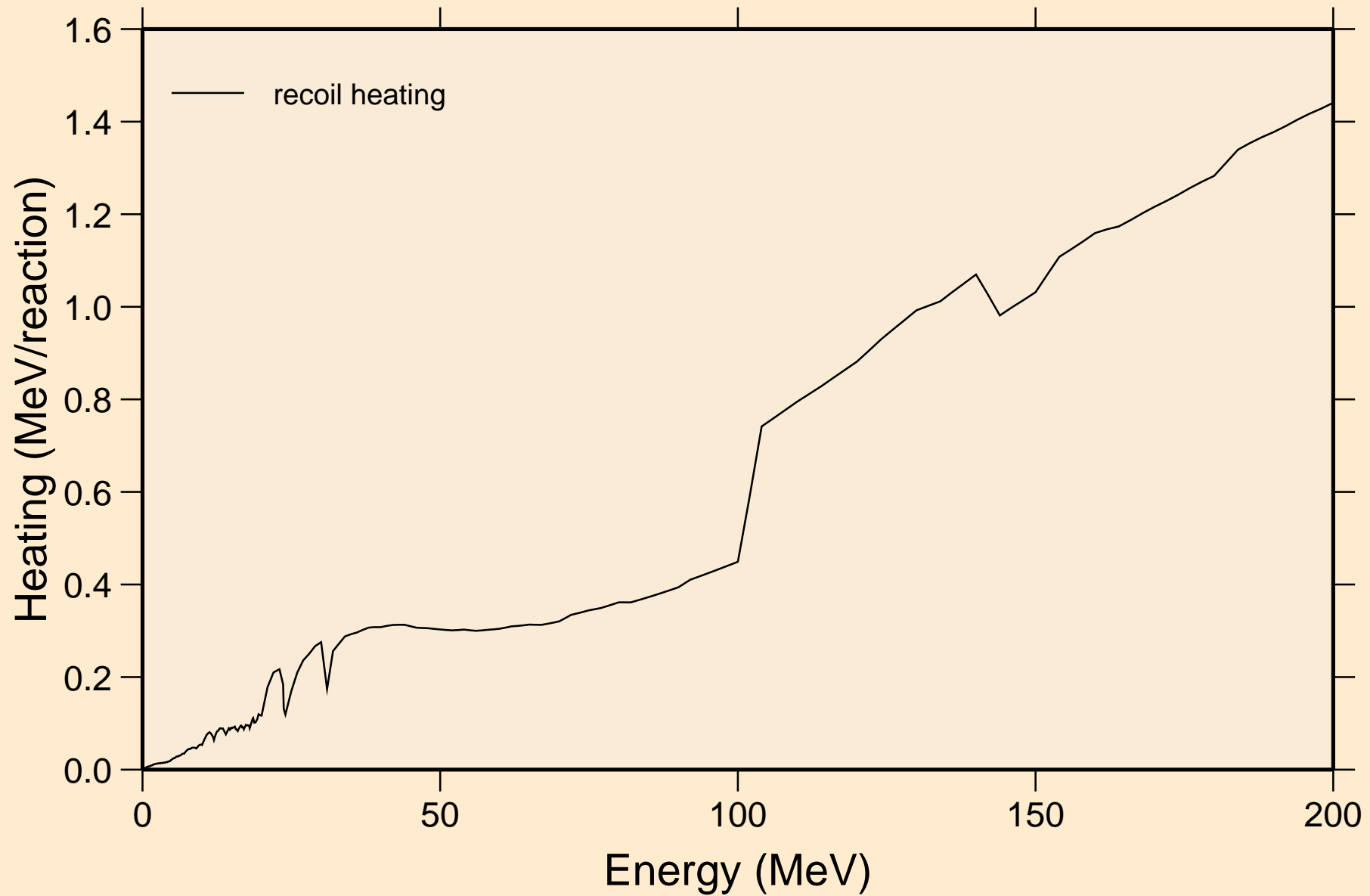


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

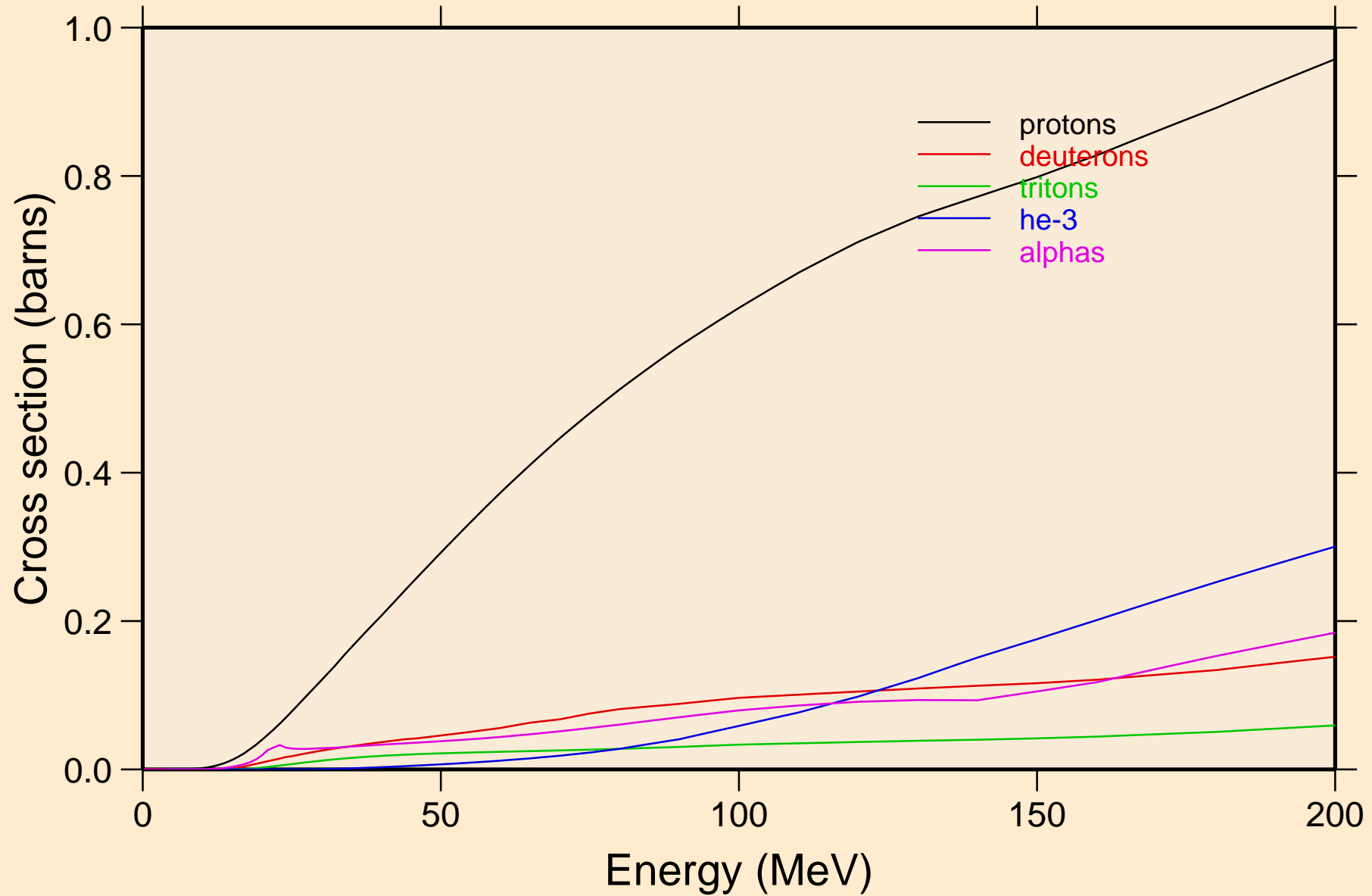


IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating

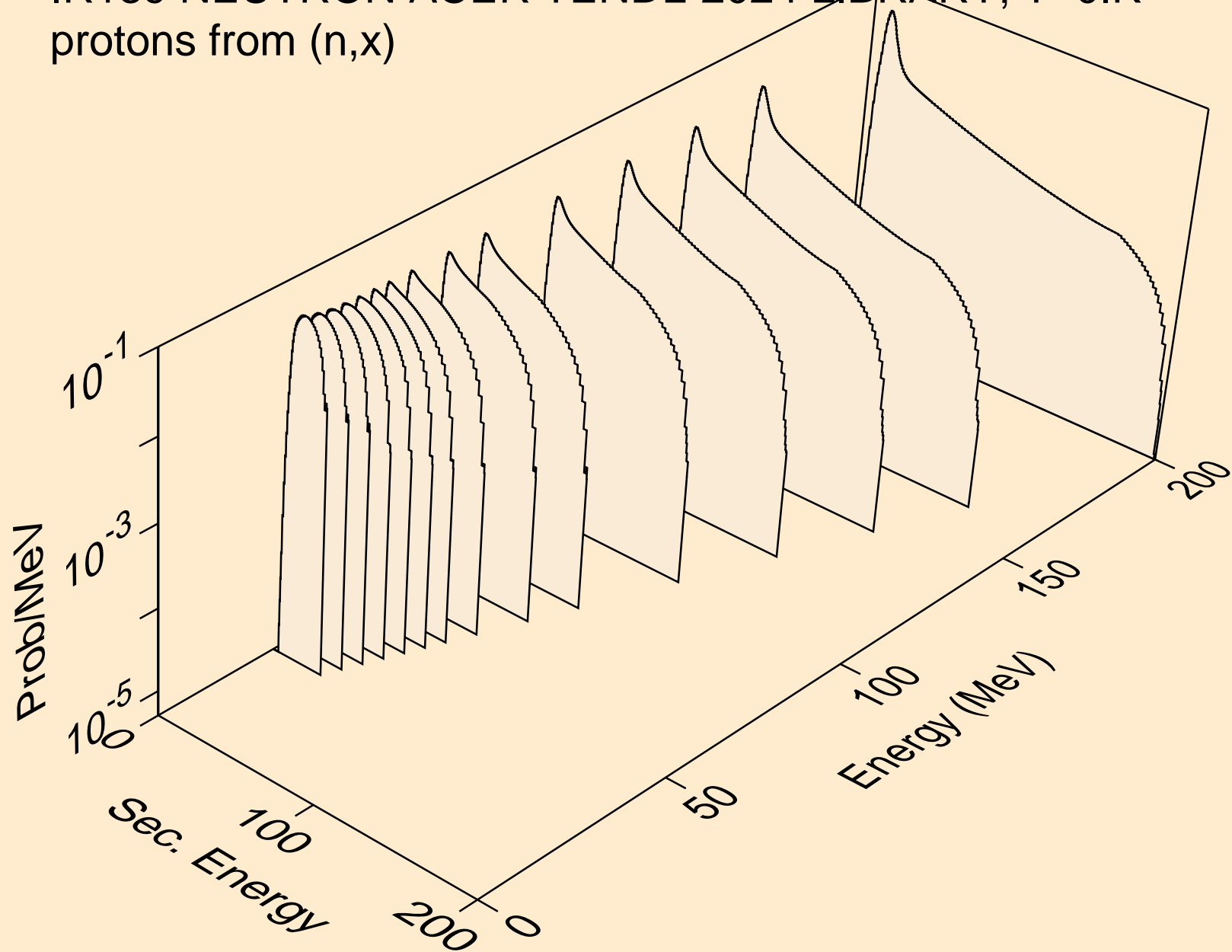


# IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

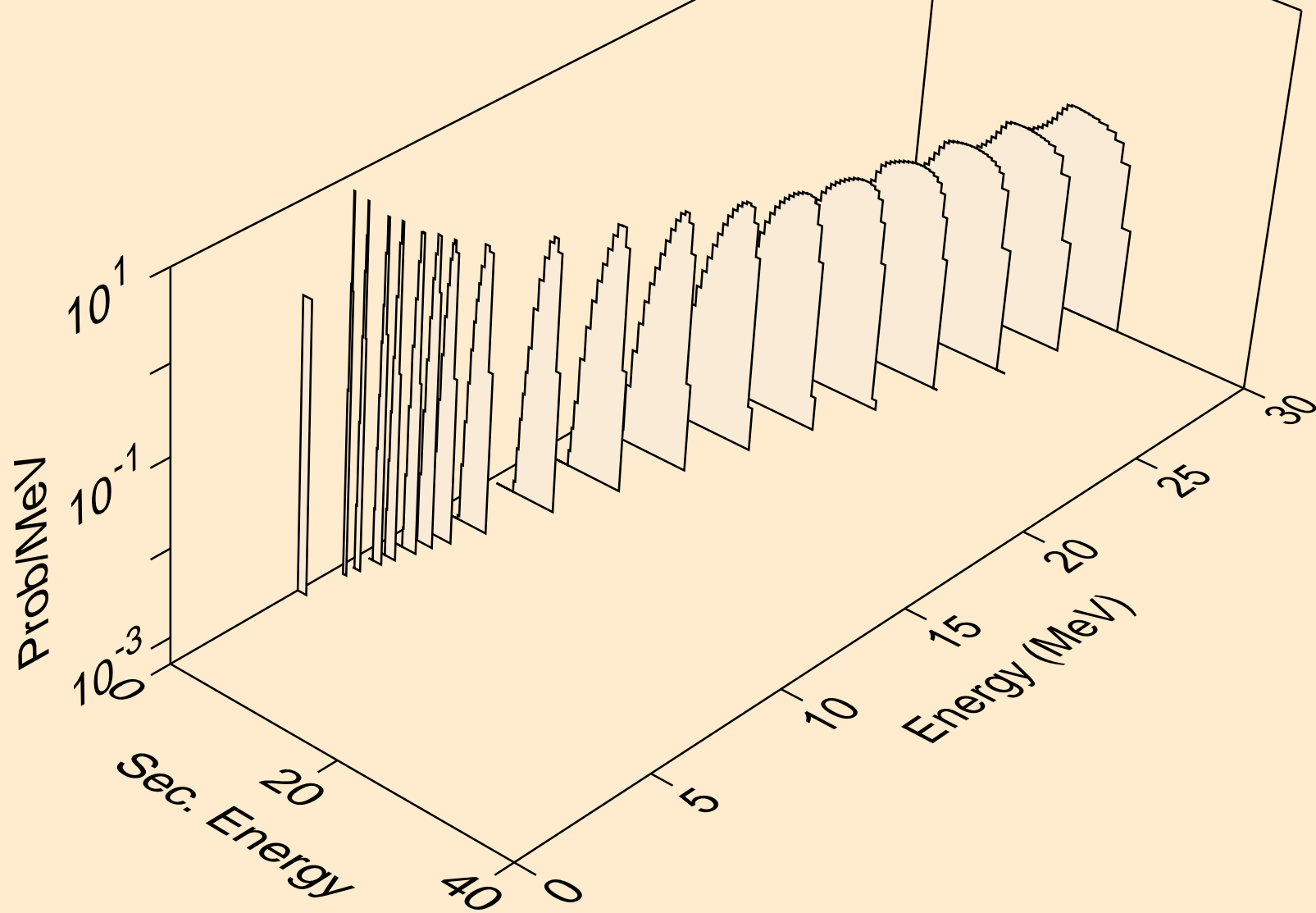
## Particle production cross sections



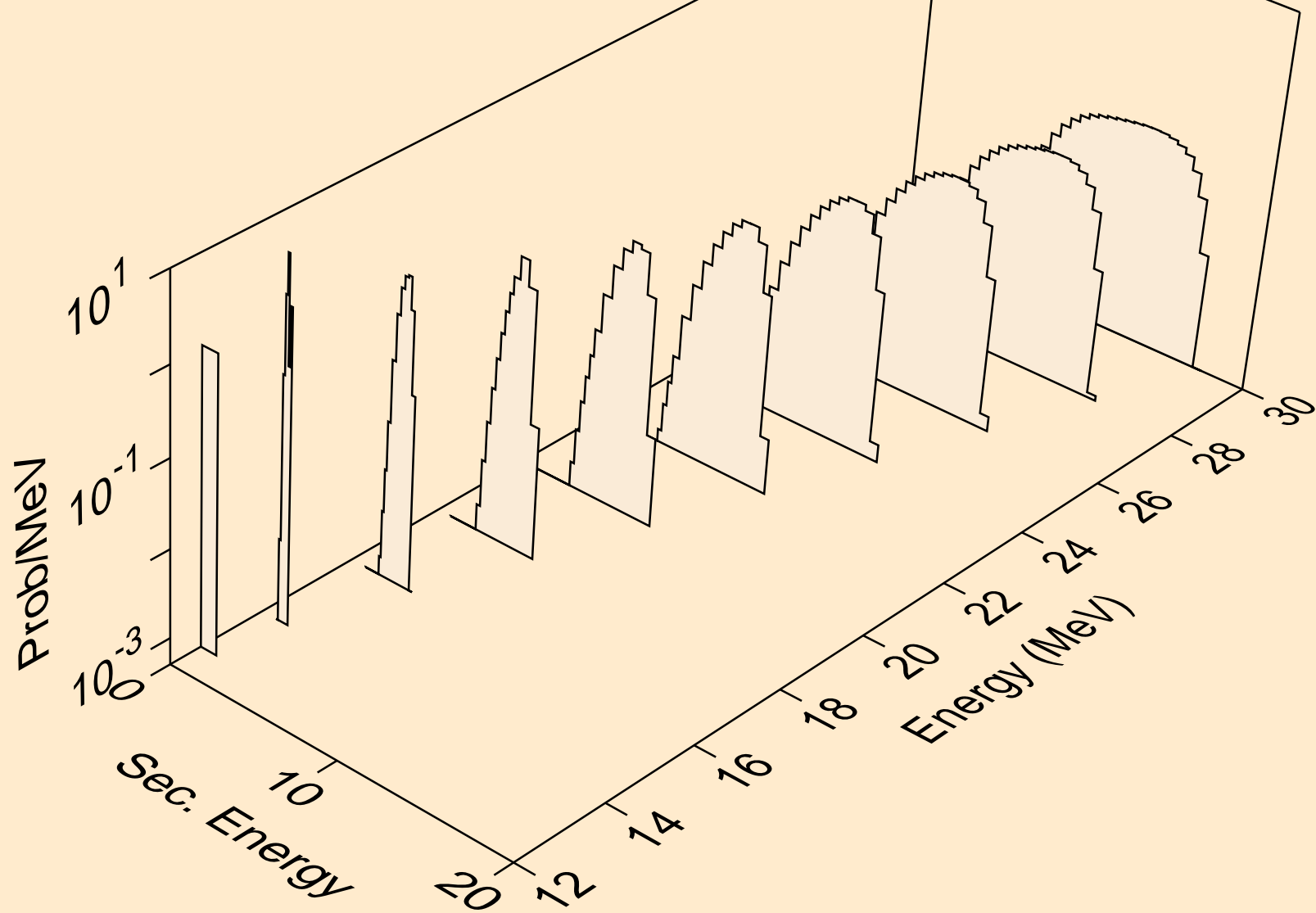
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



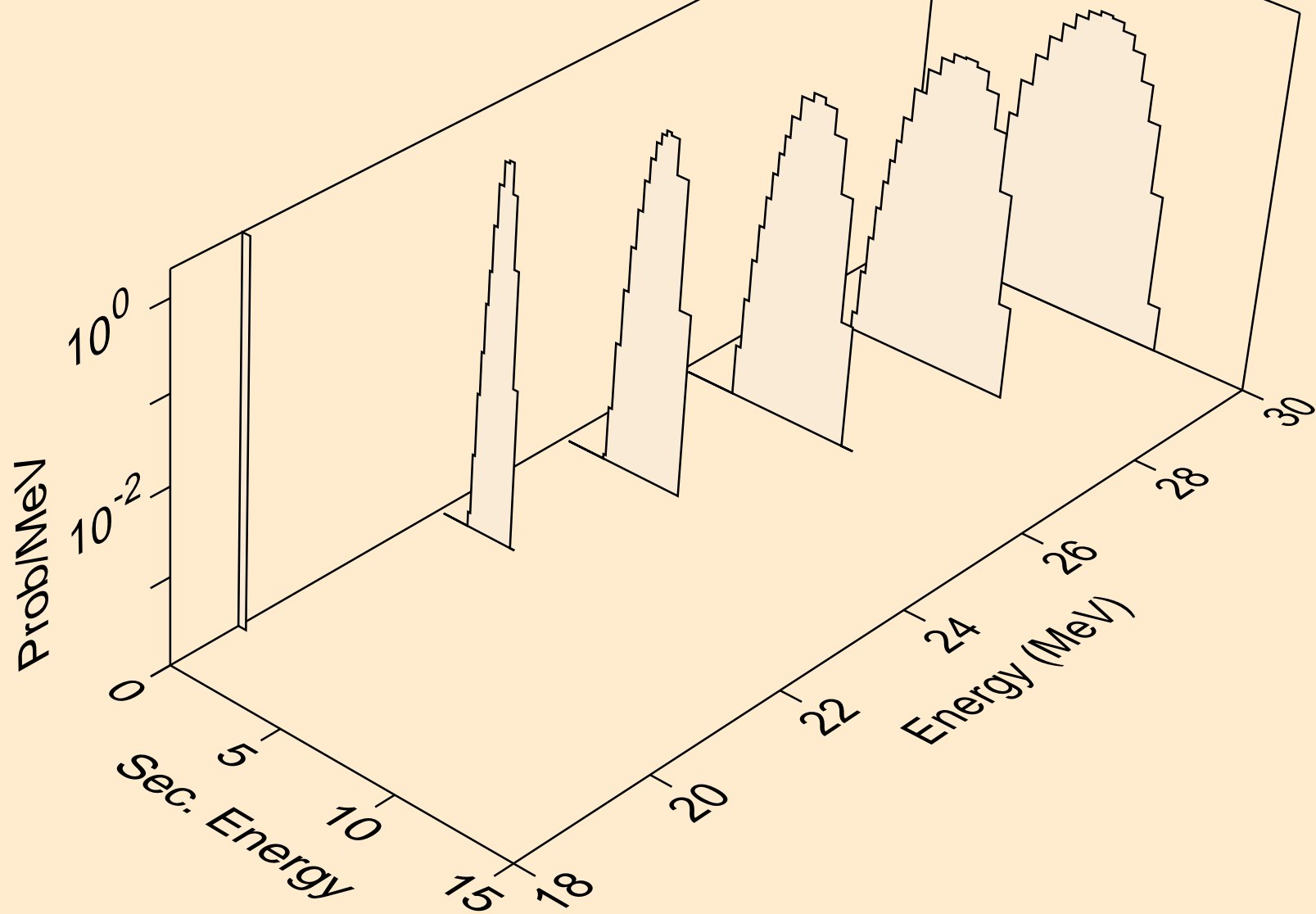
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protons from (n,n\*)p



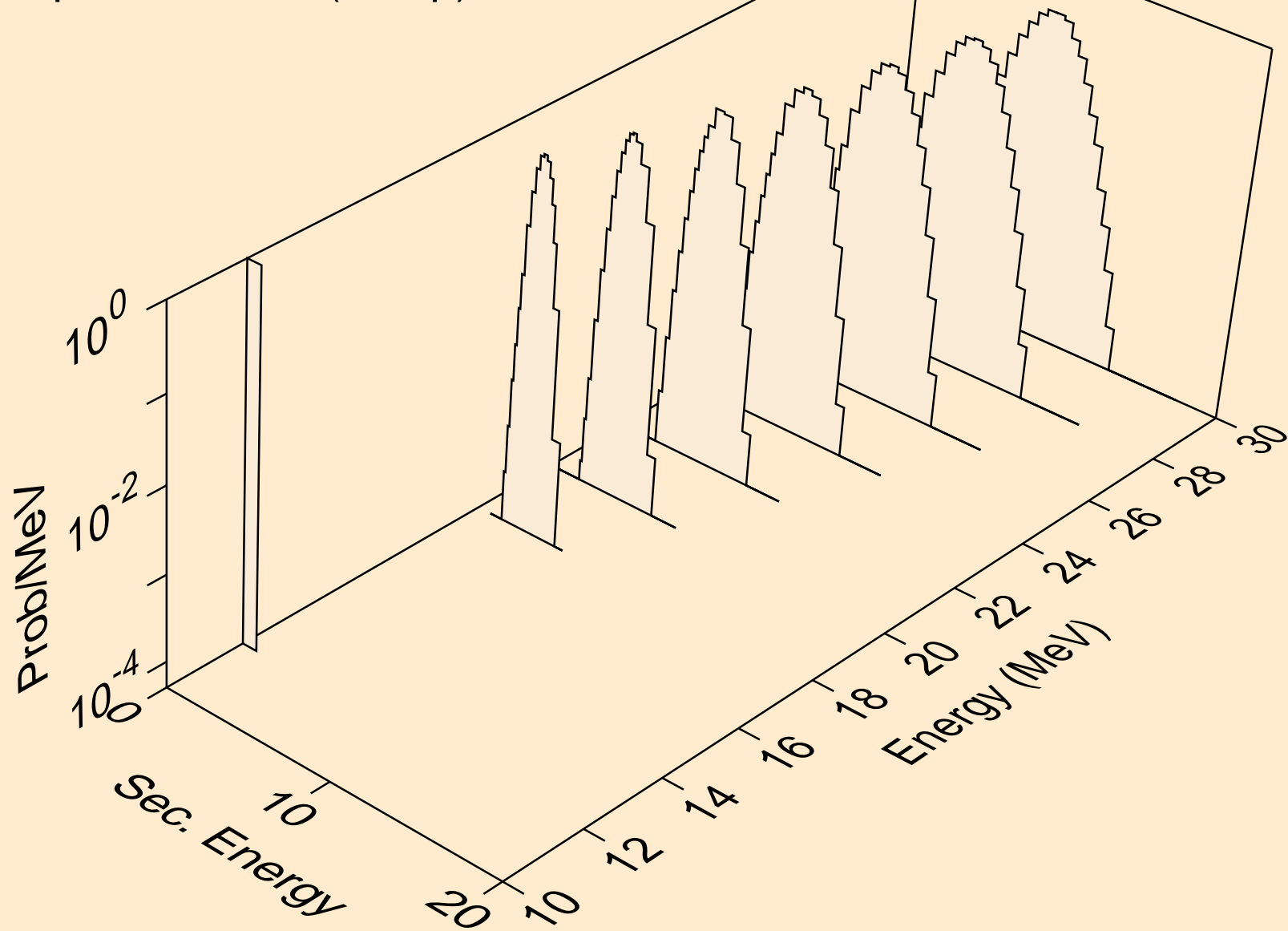
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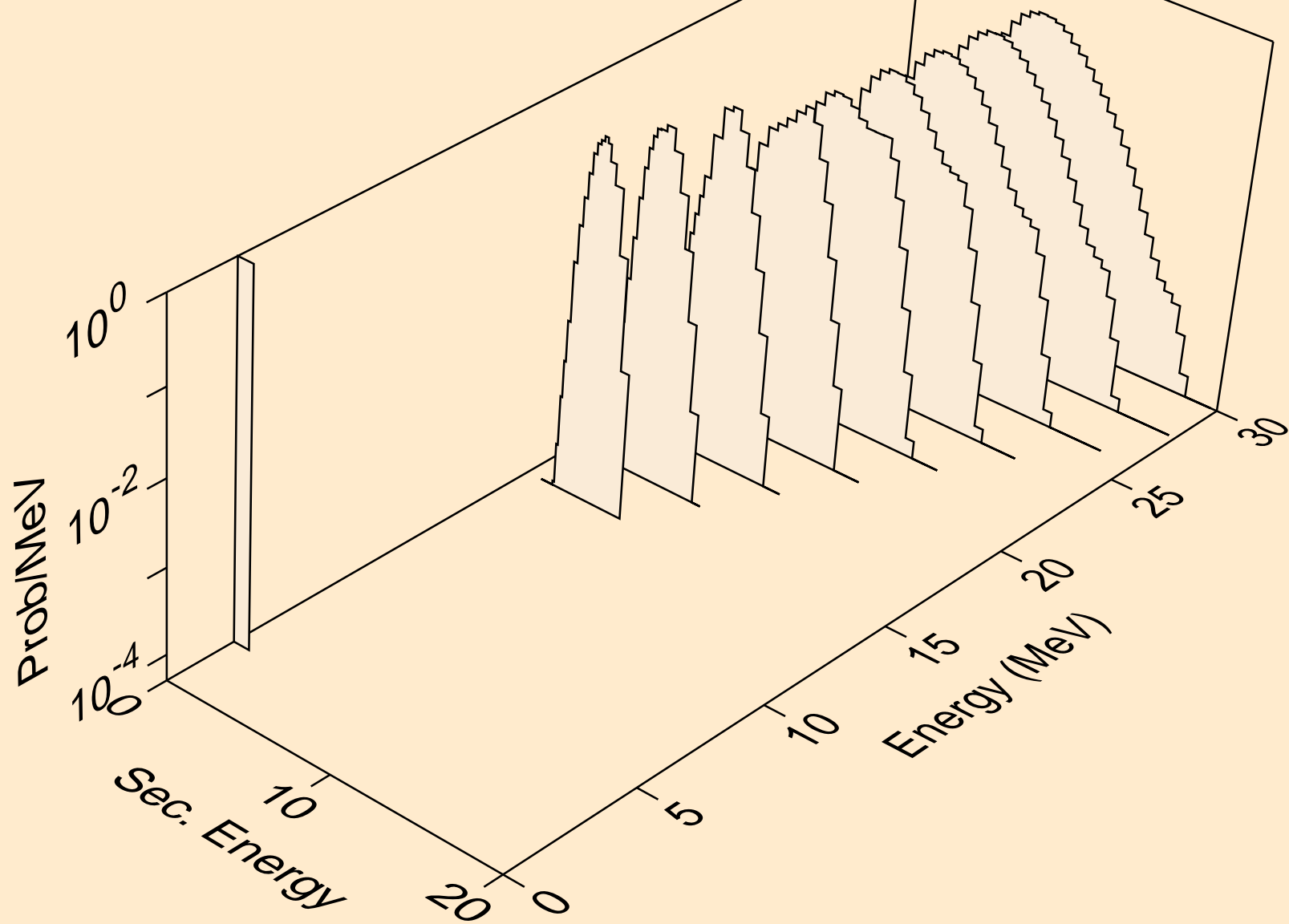
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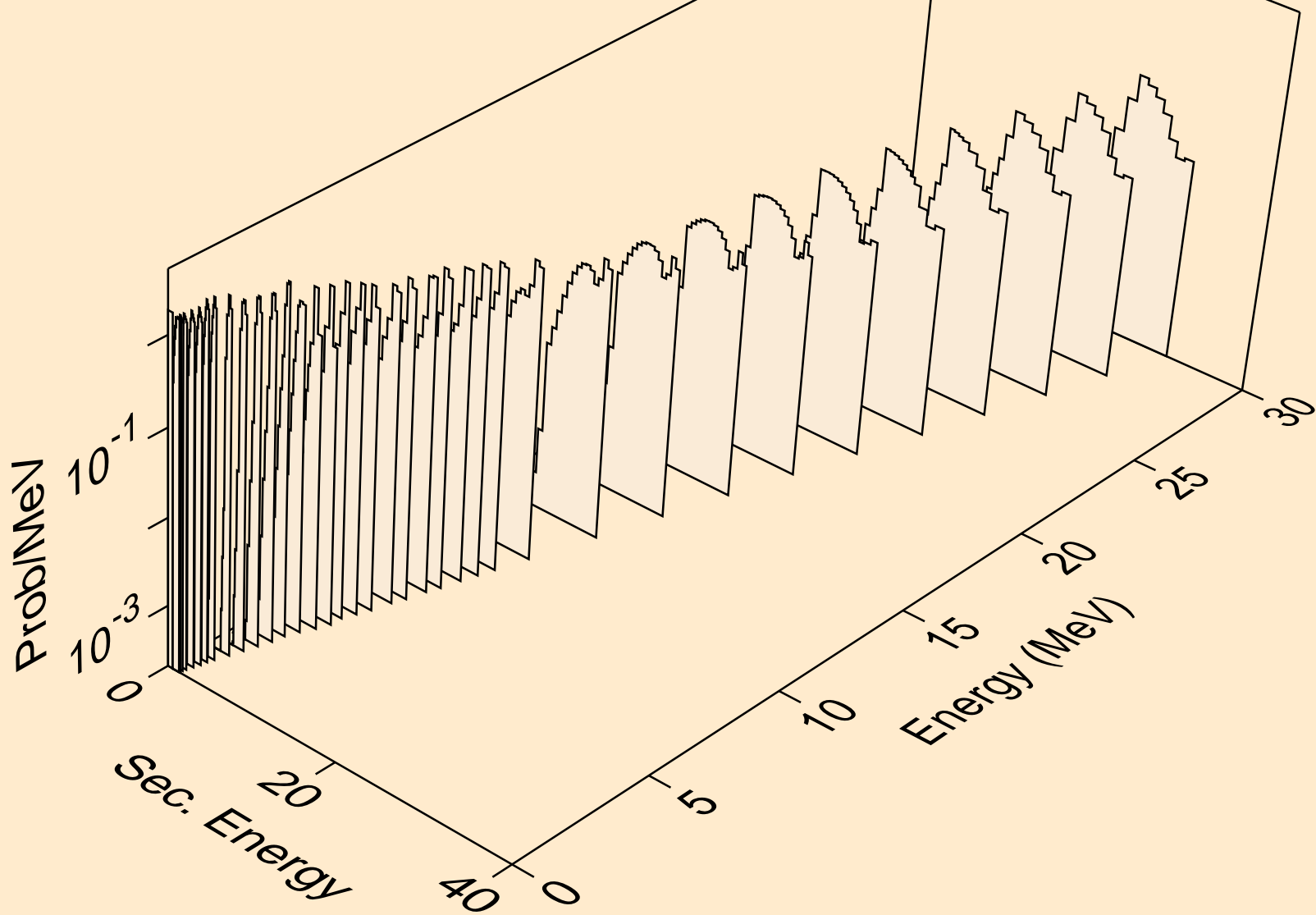
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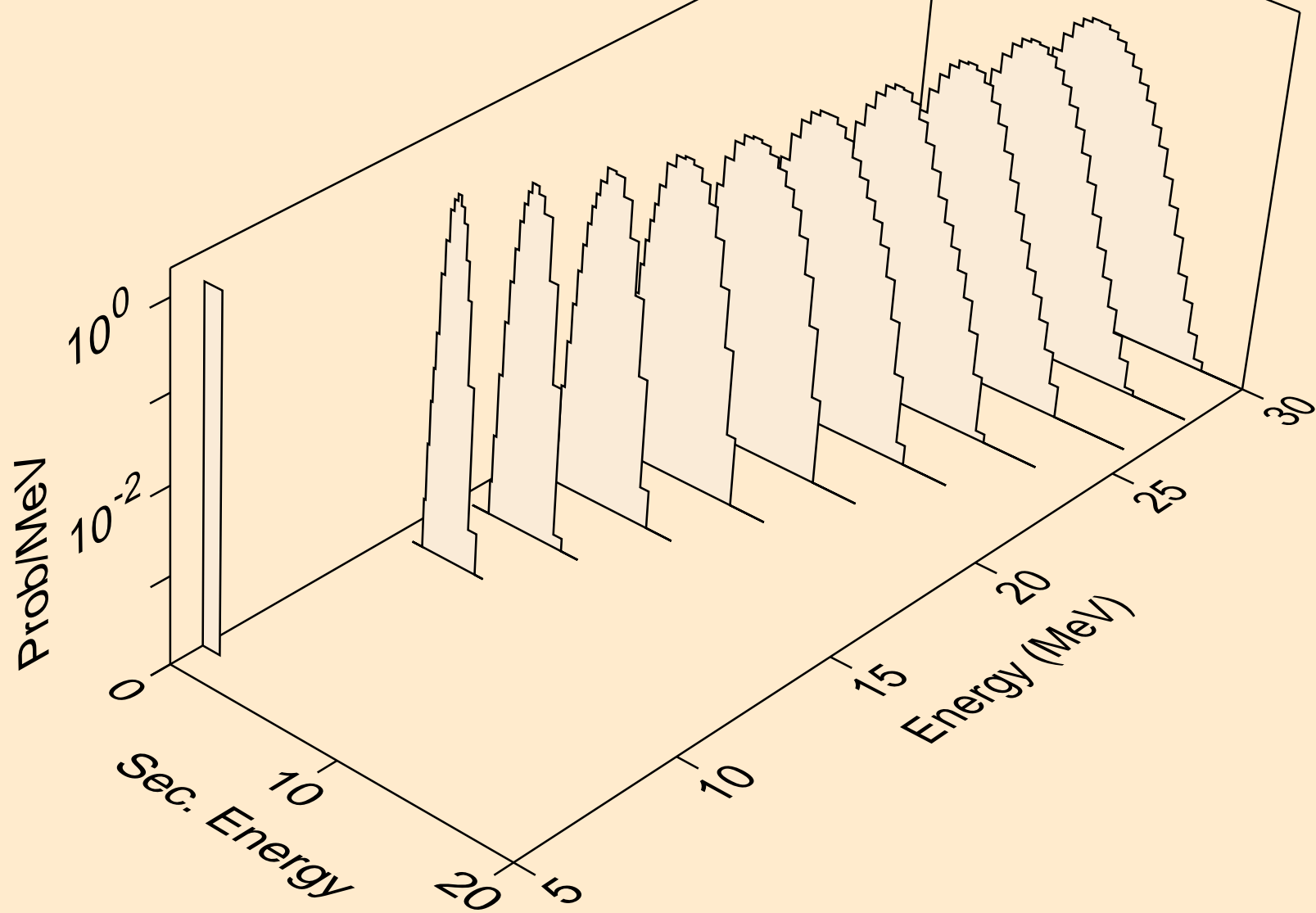
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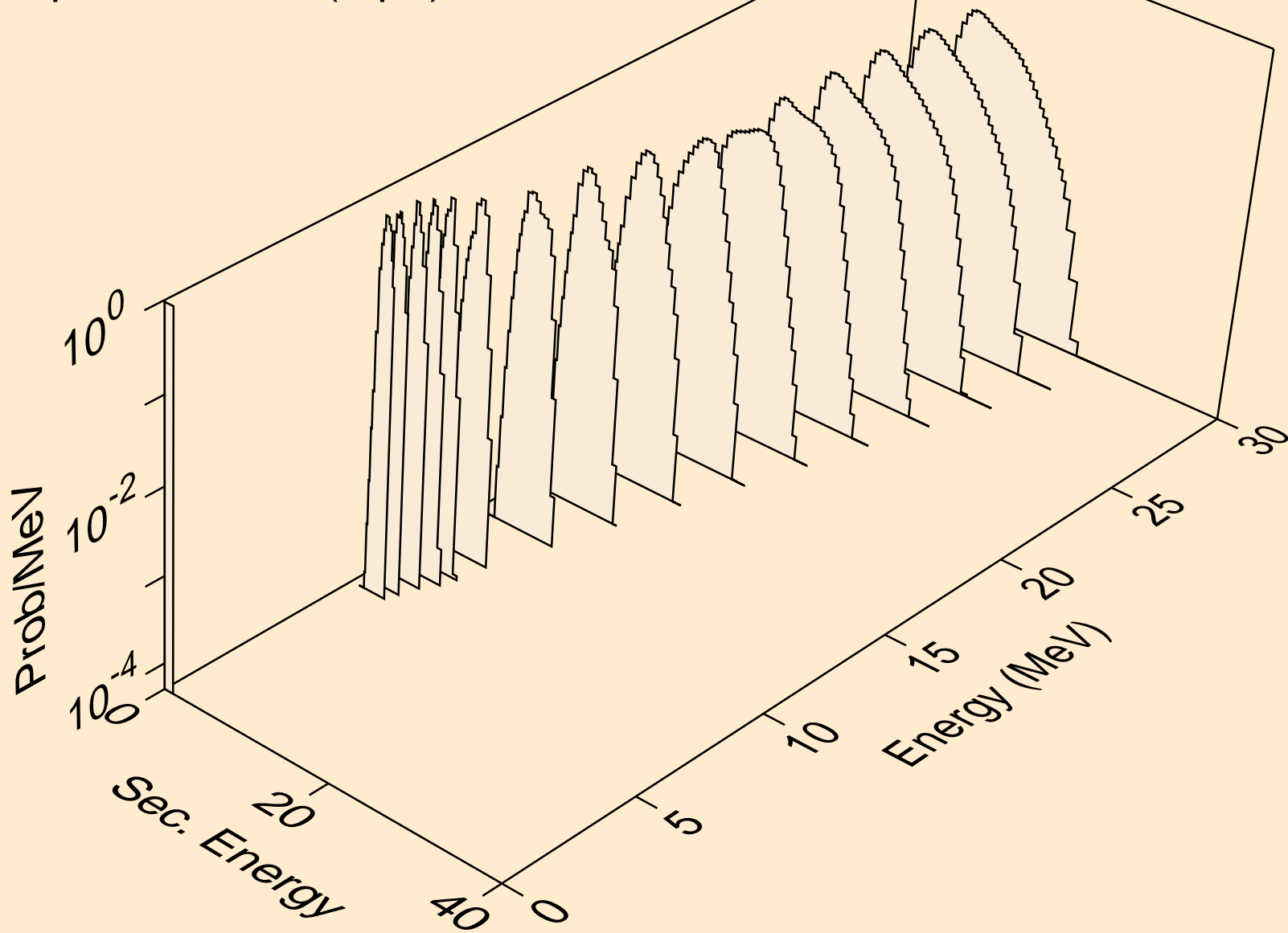
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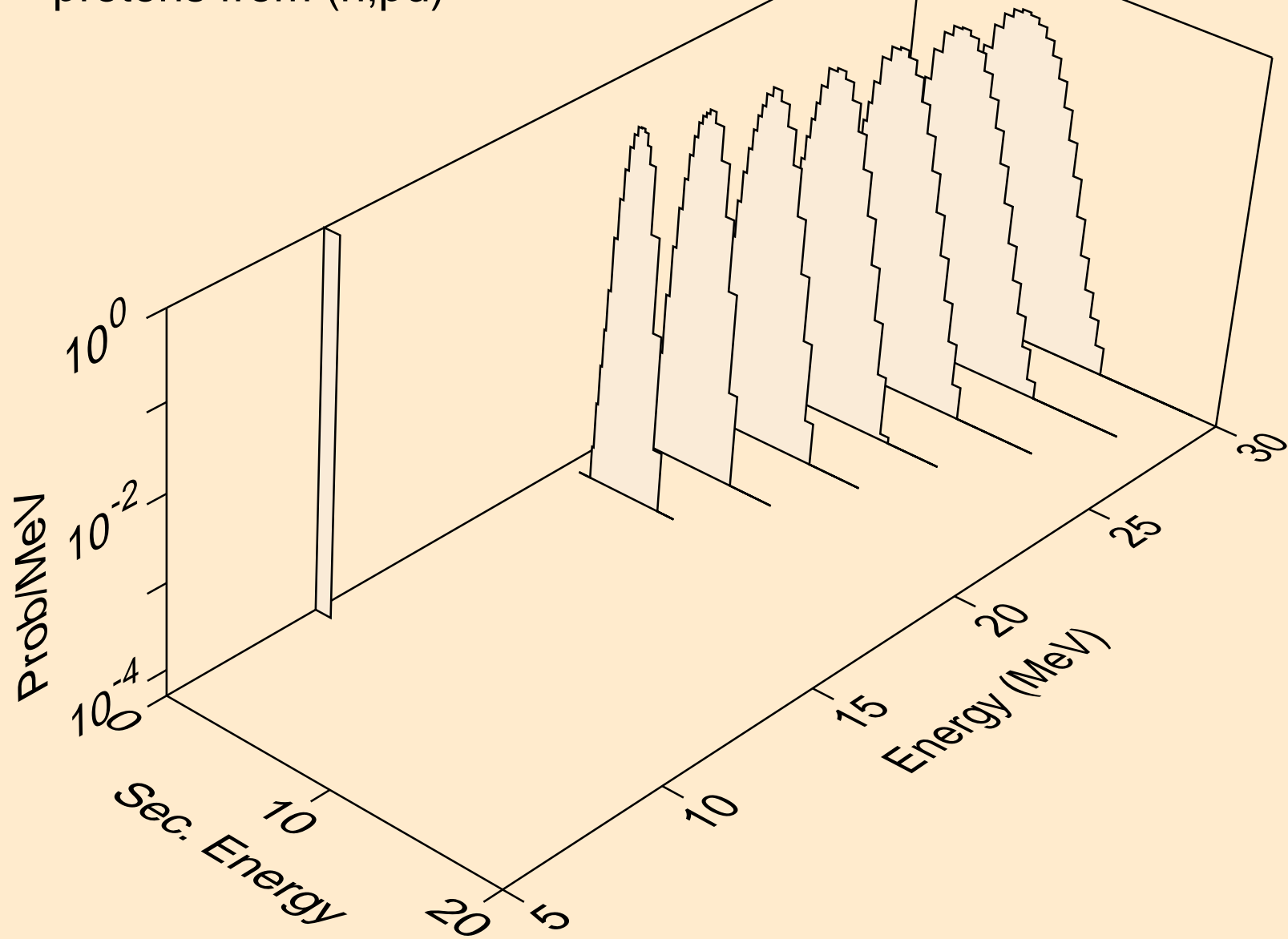
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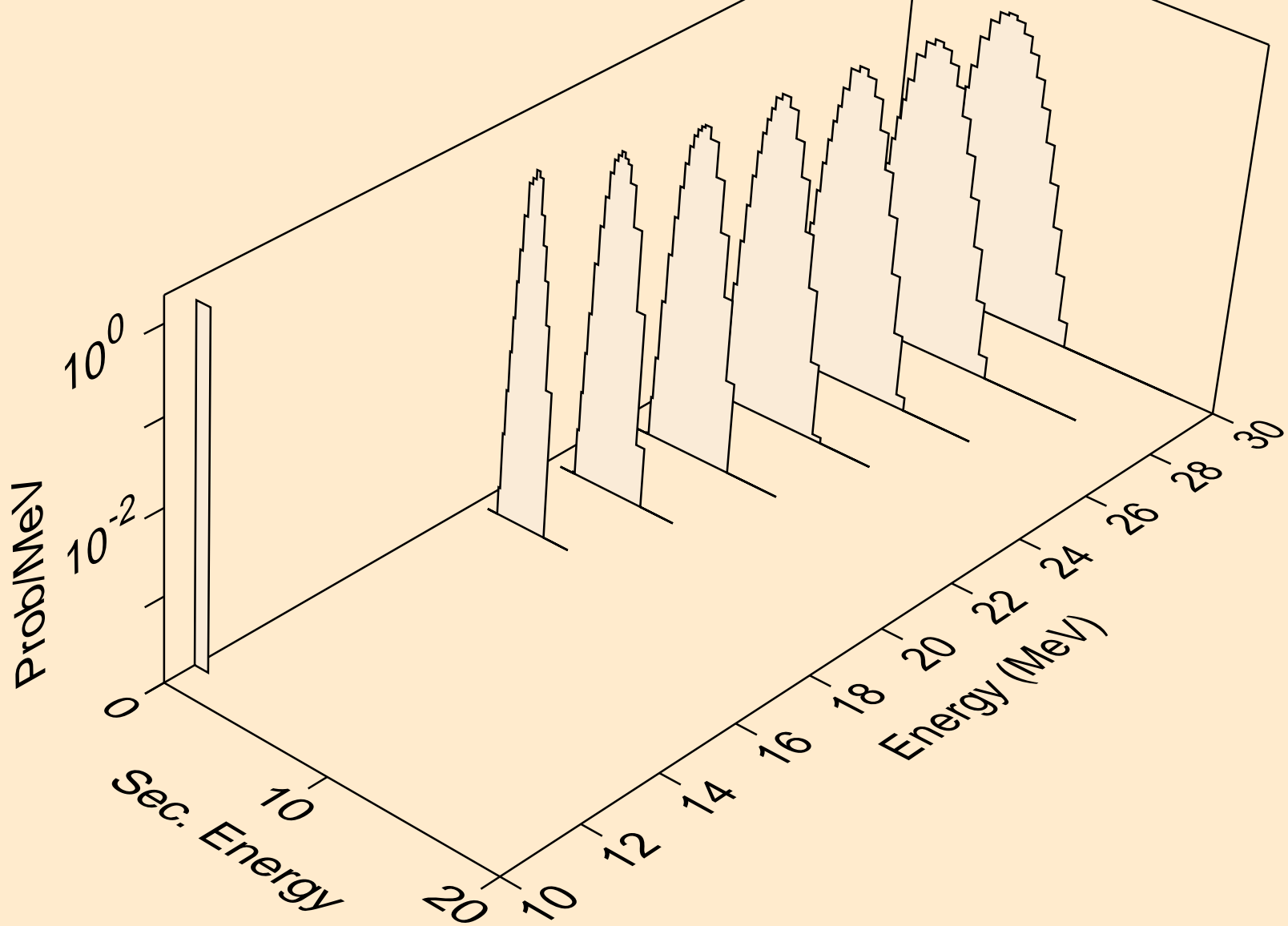
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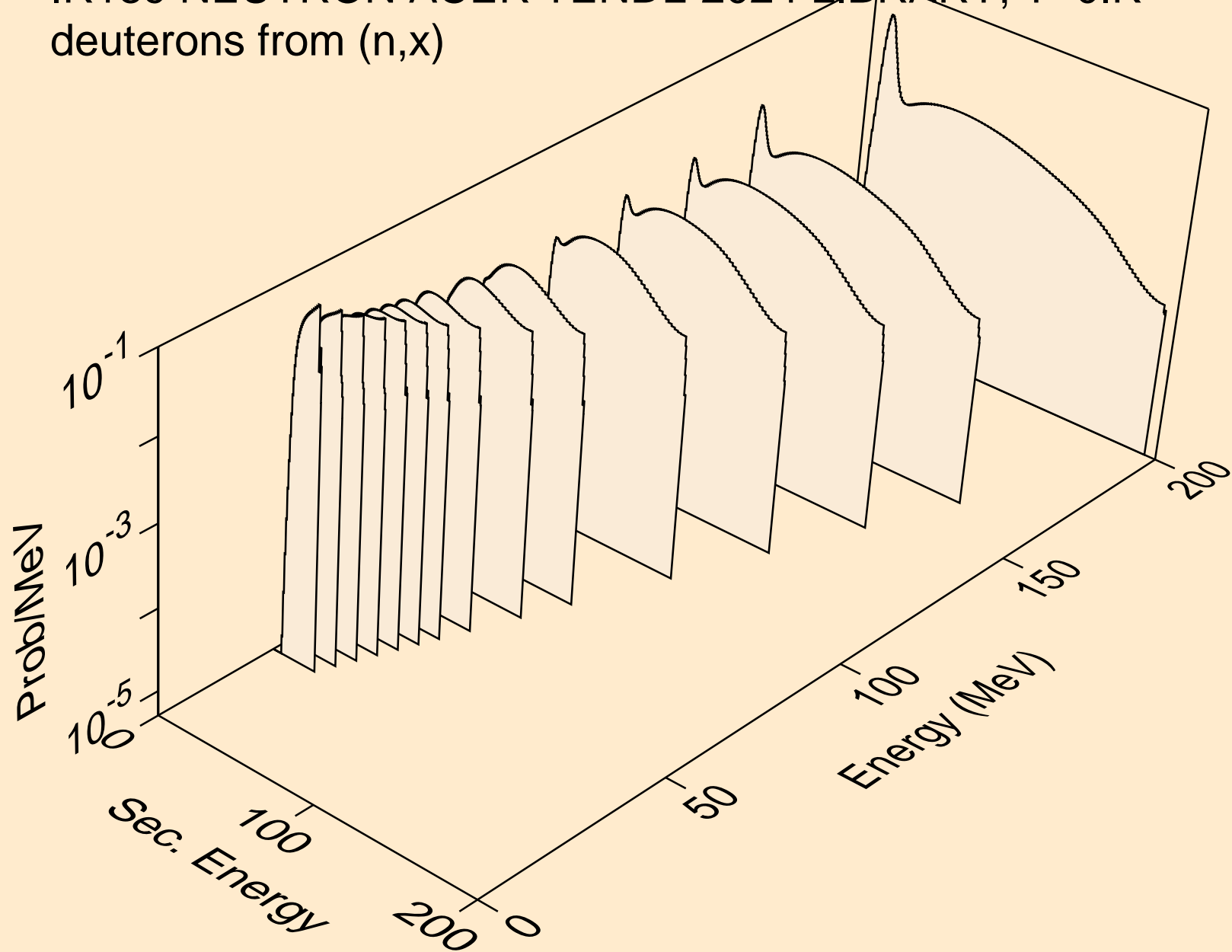
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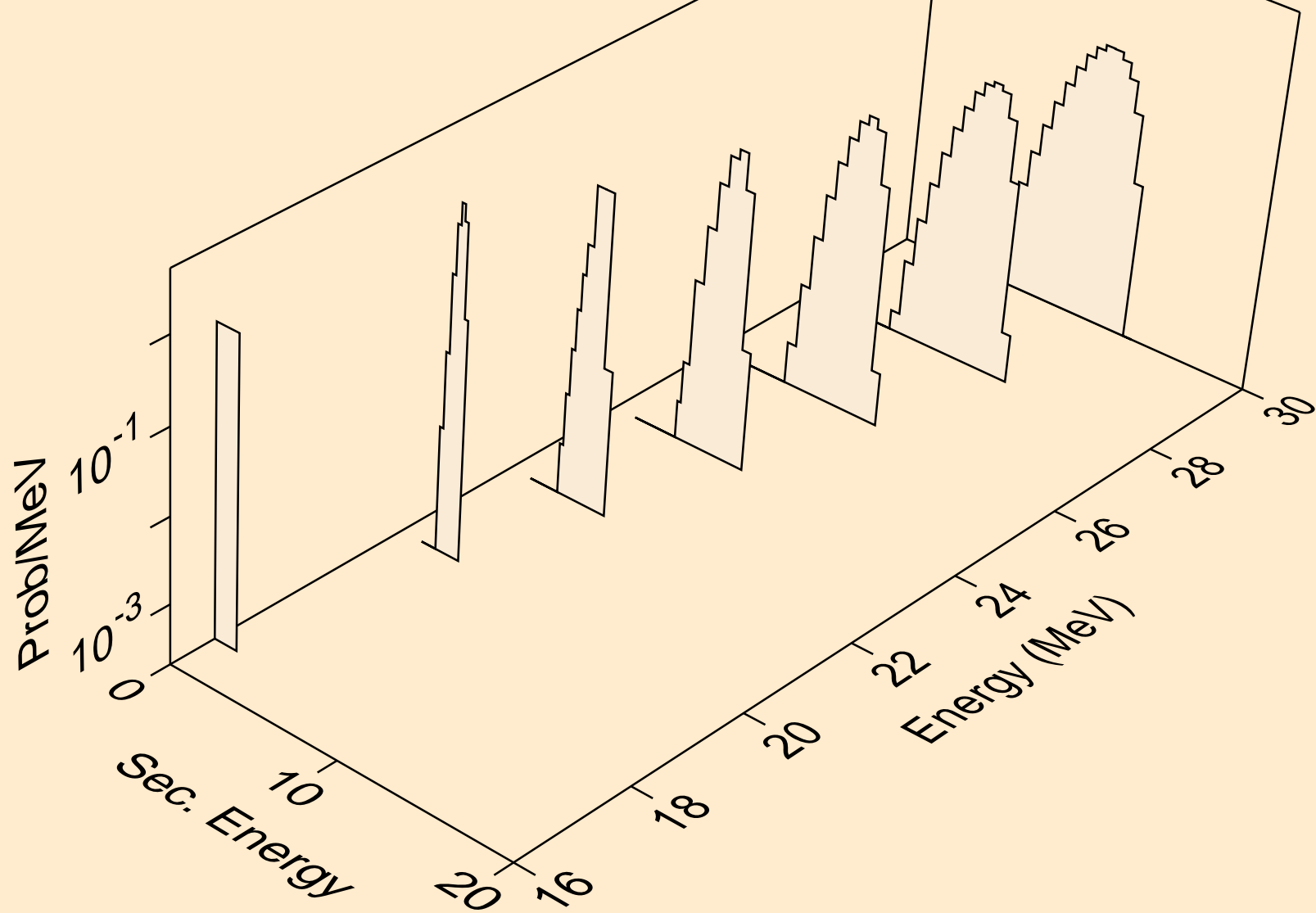
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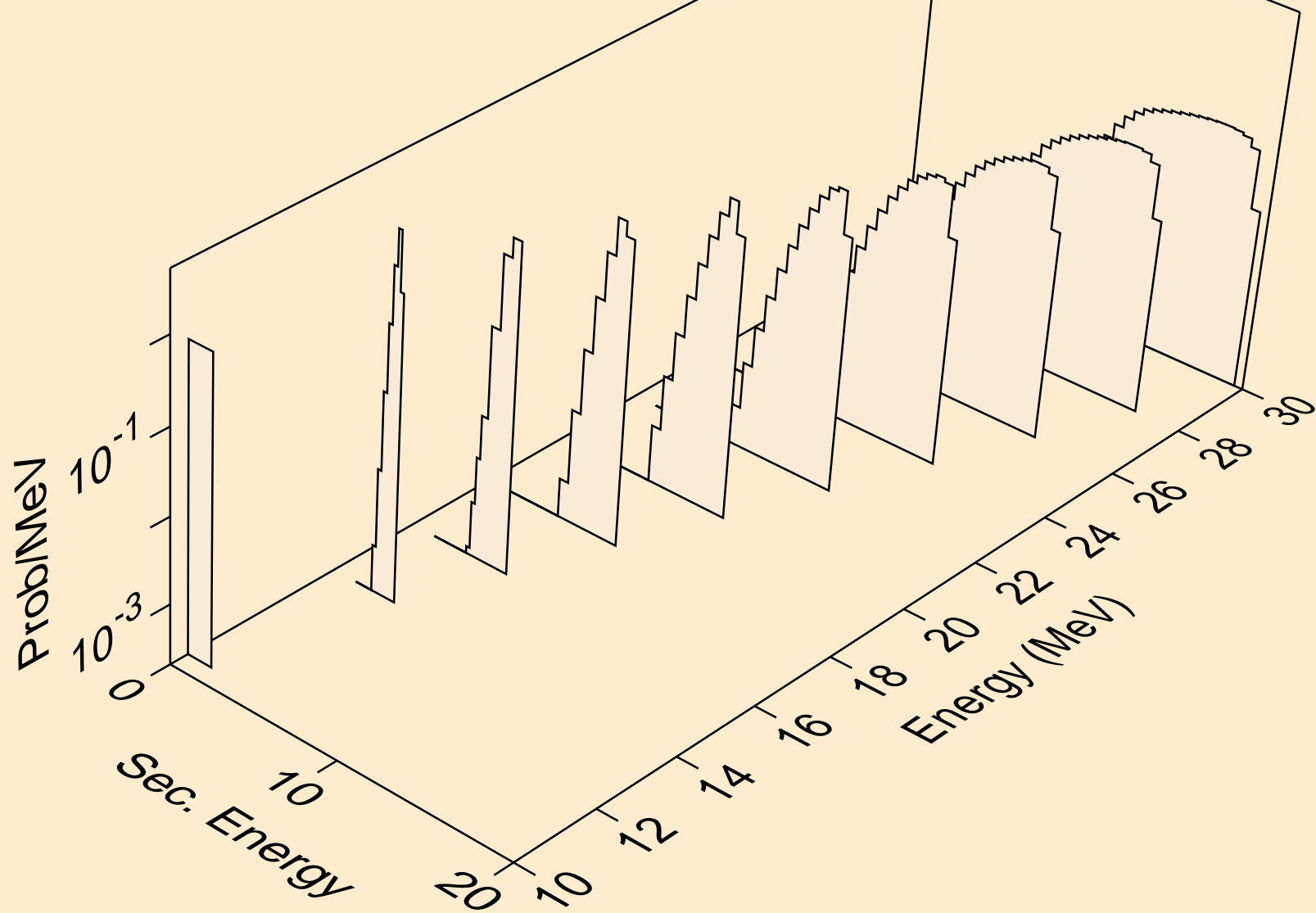
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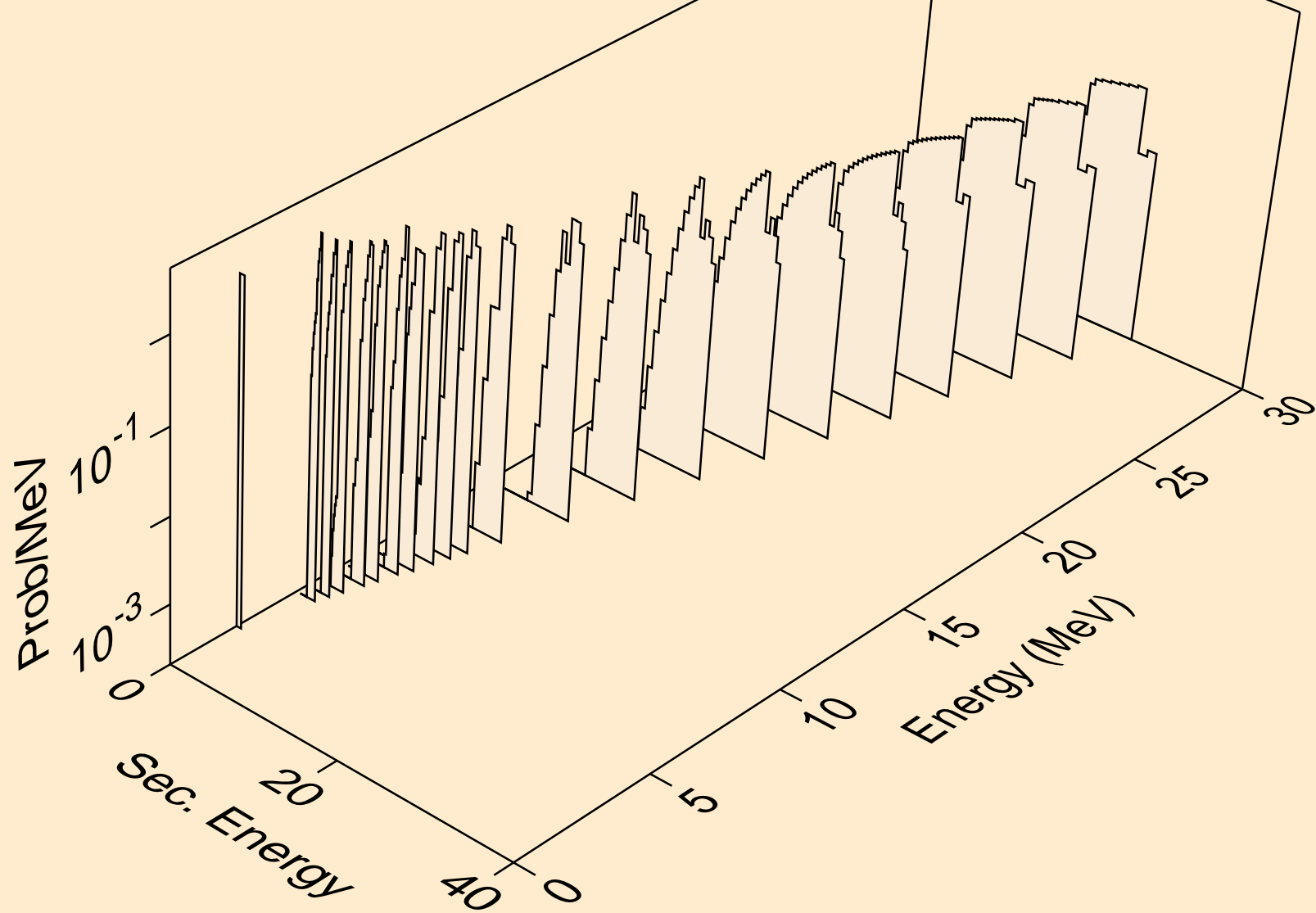
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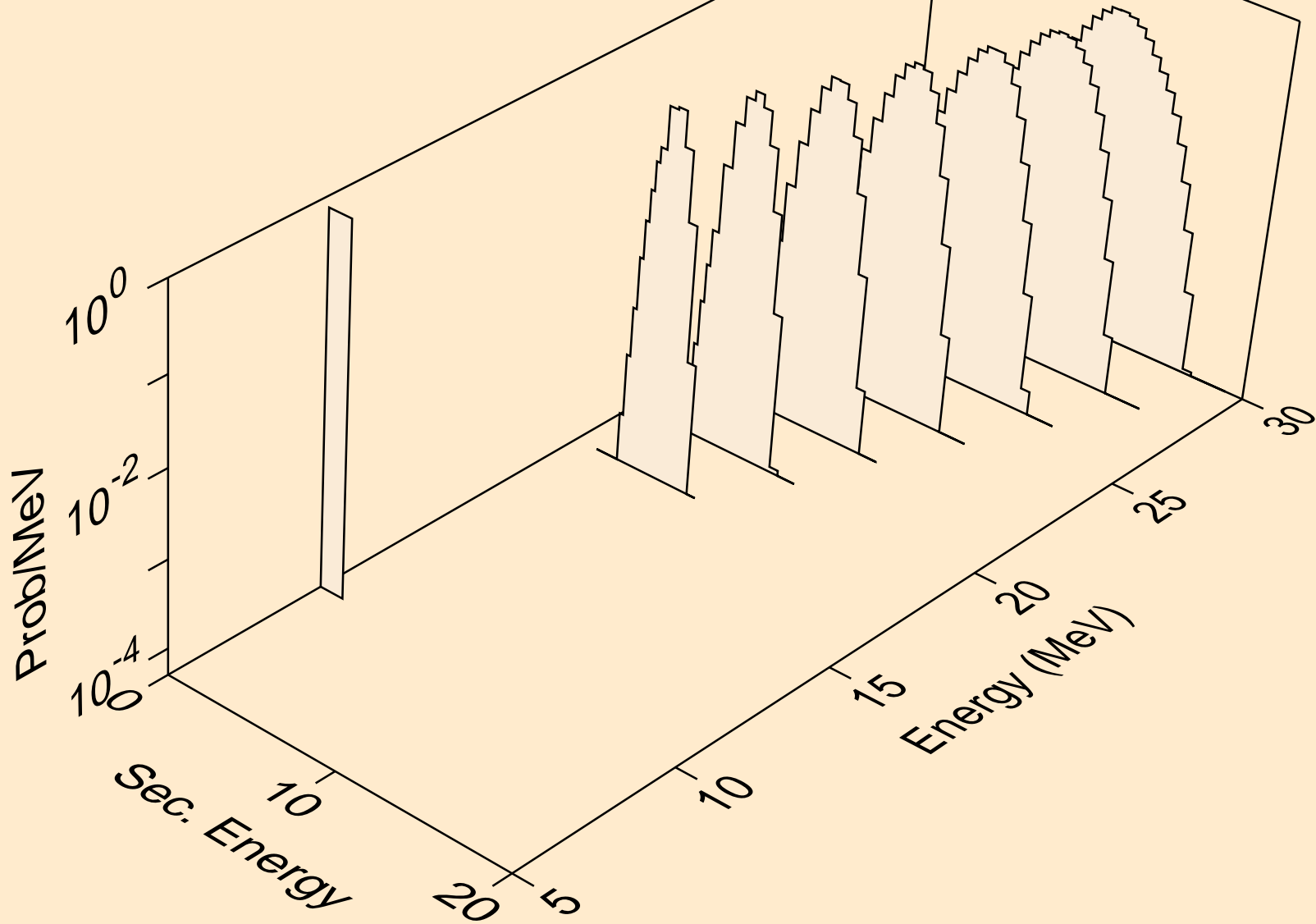
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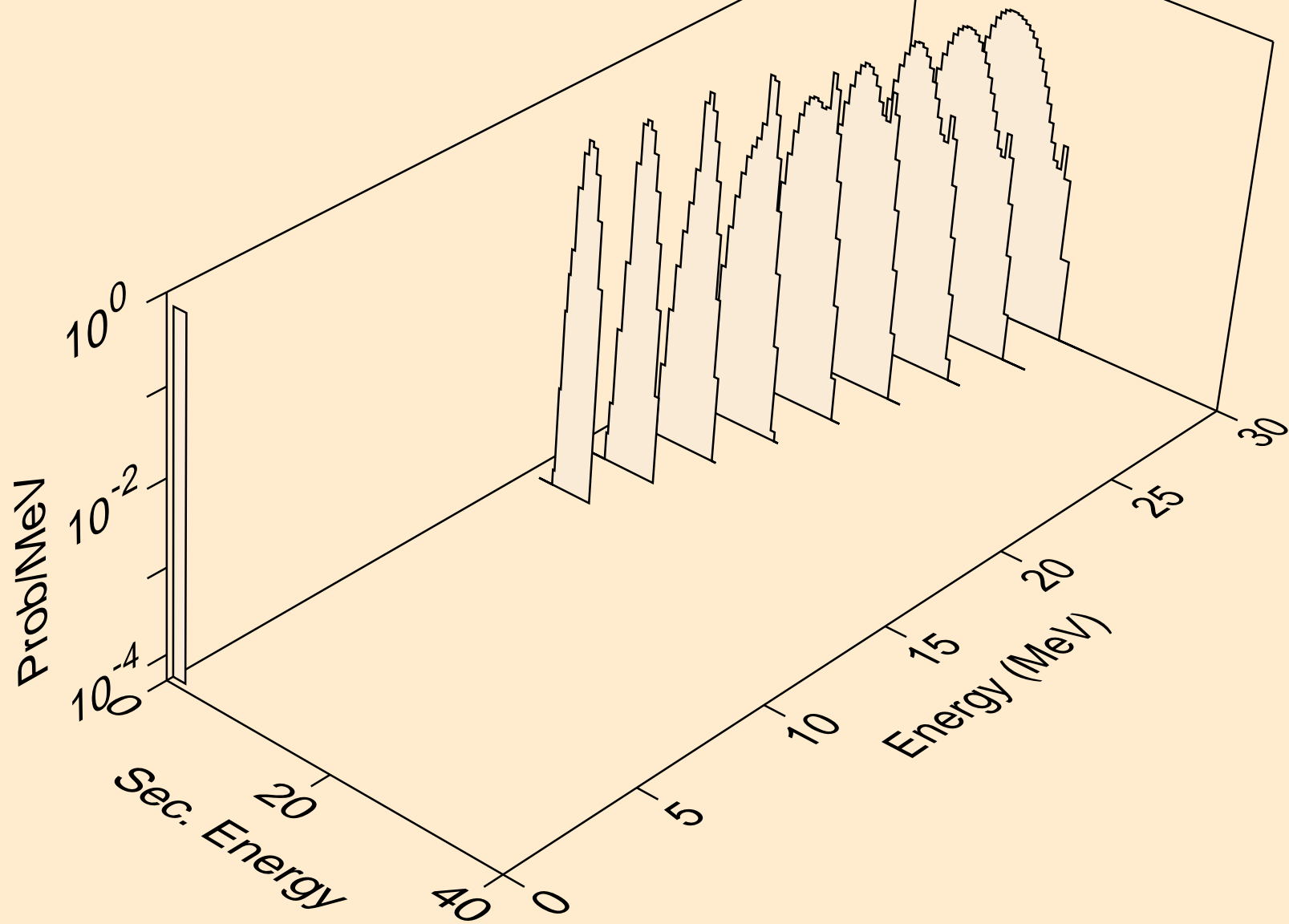
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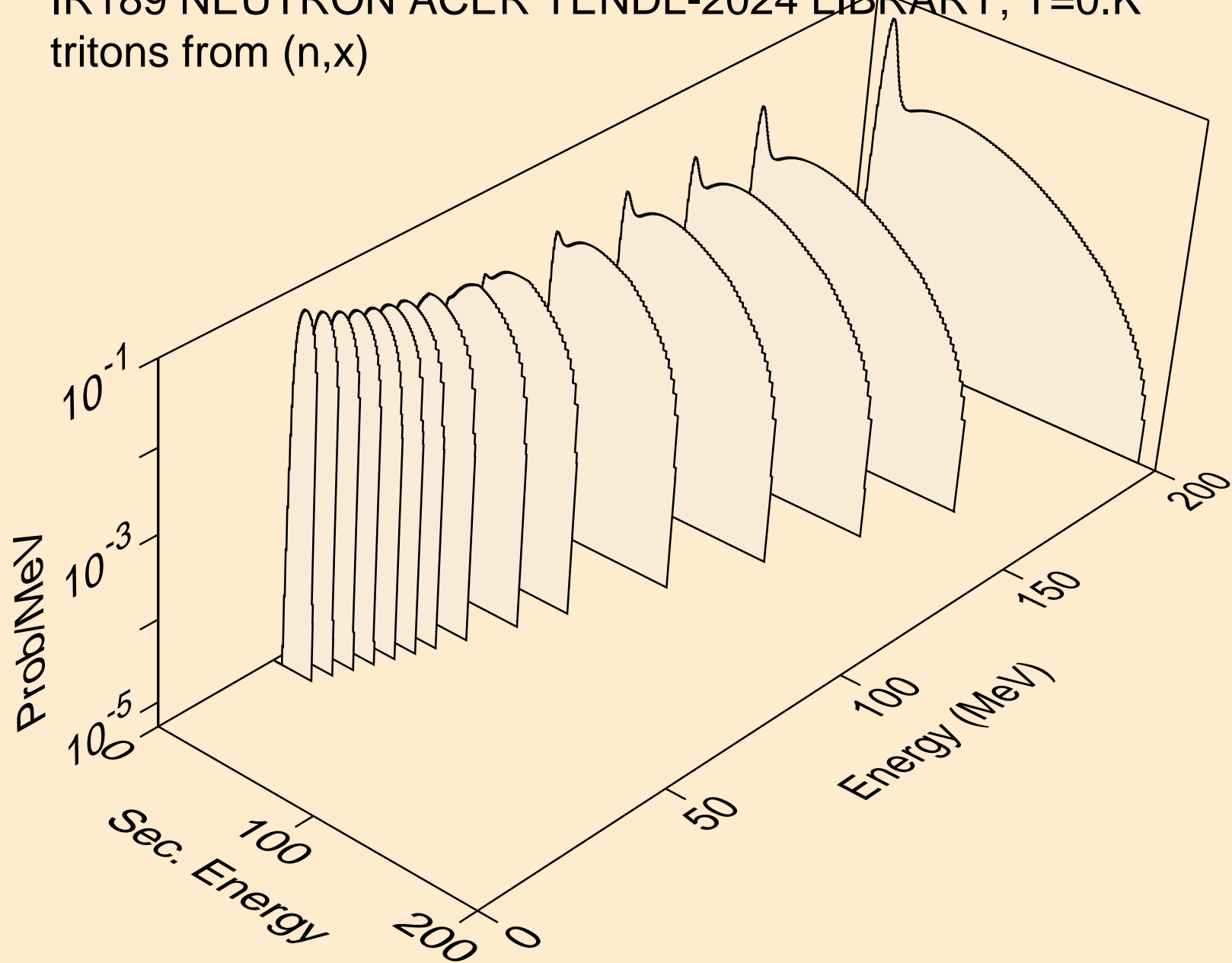
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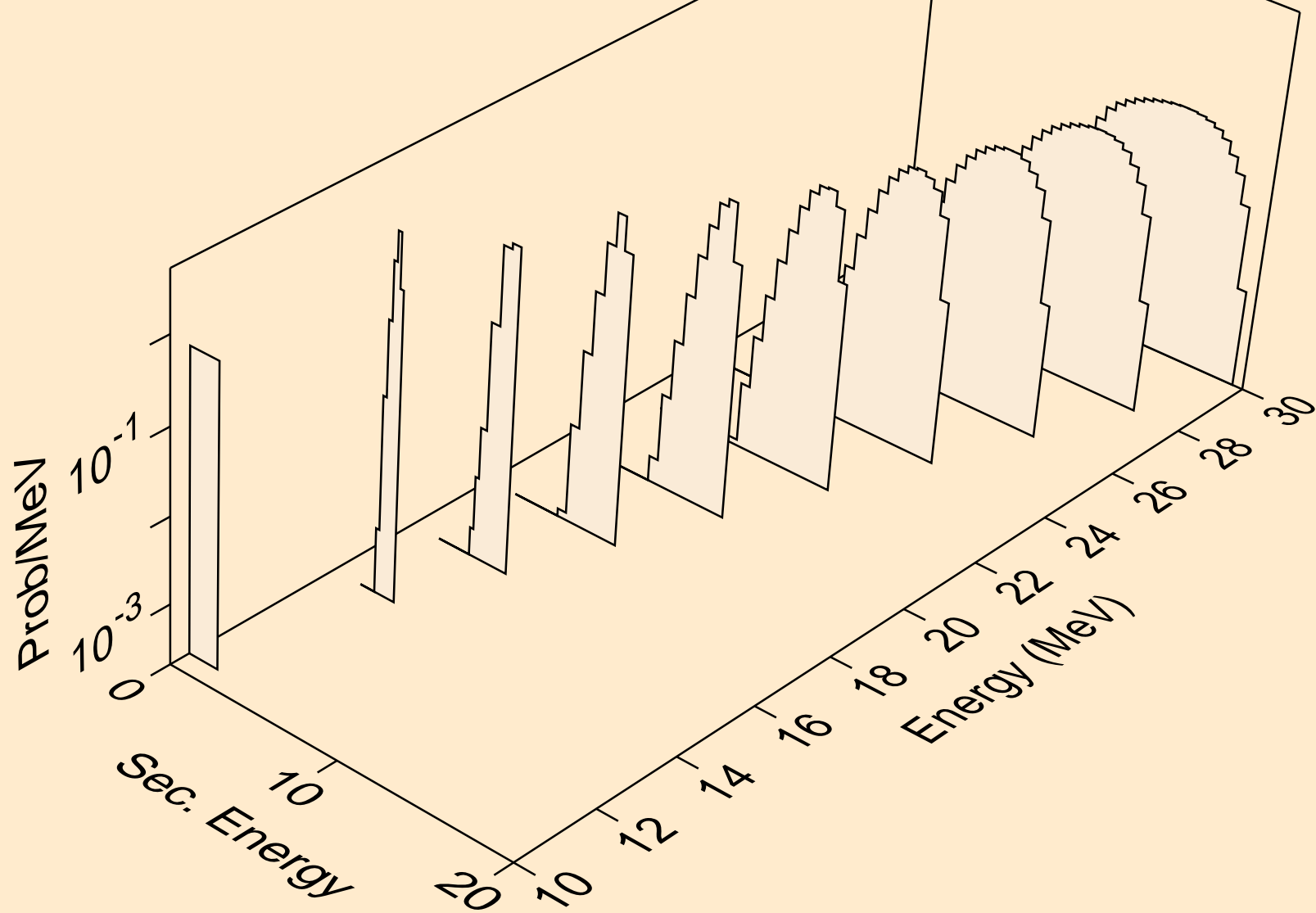
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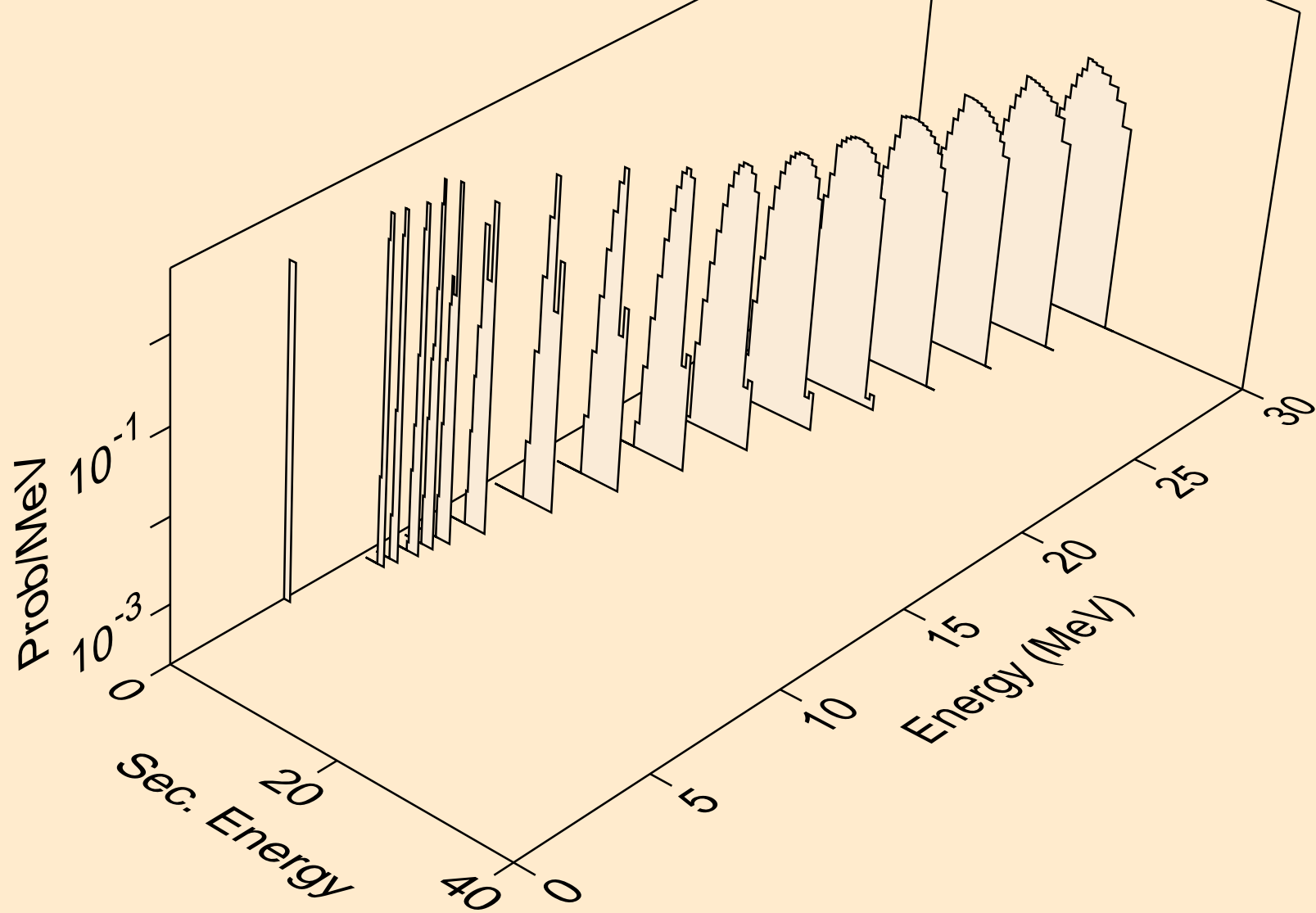
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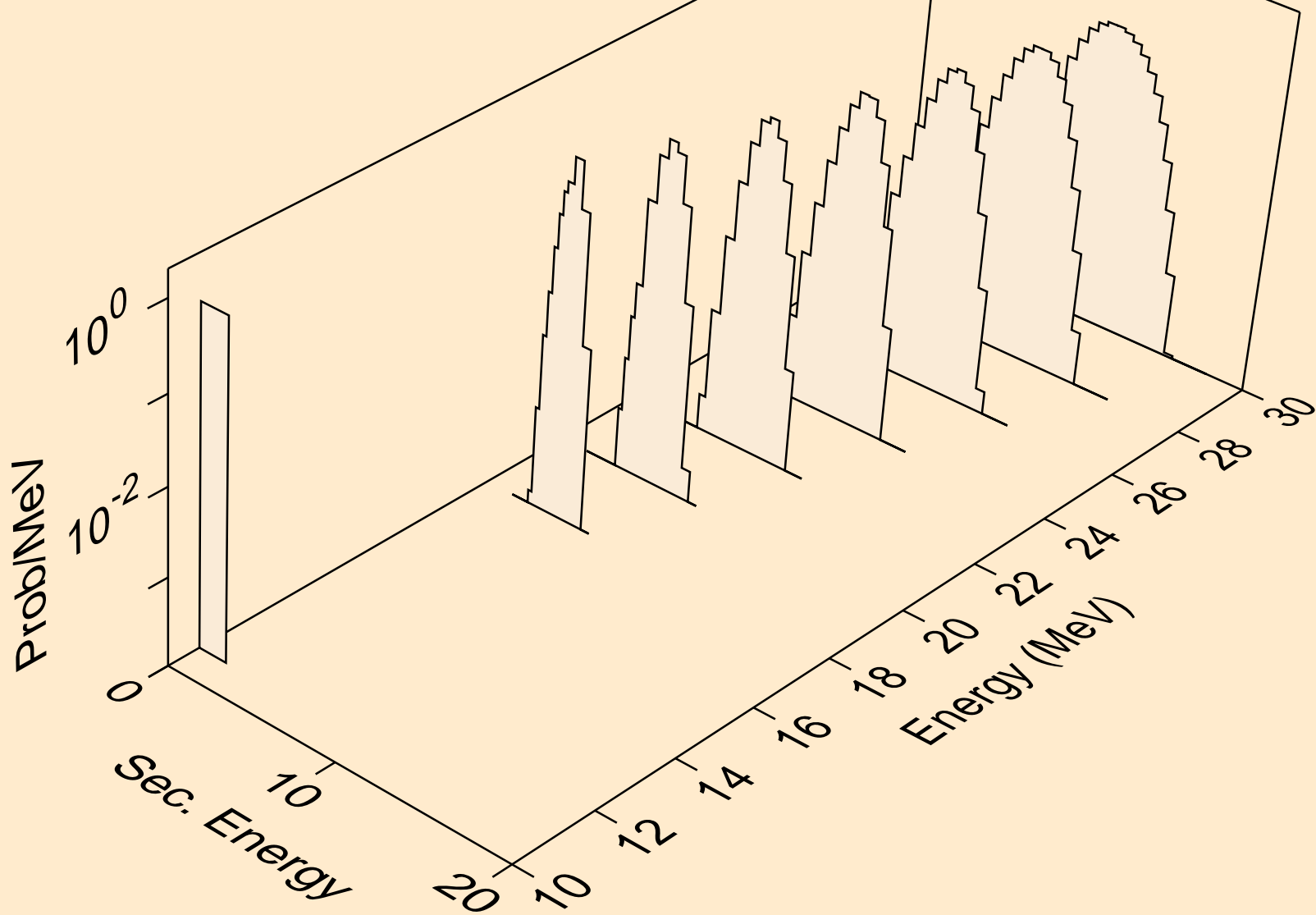
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tritons from (n,n\*)t



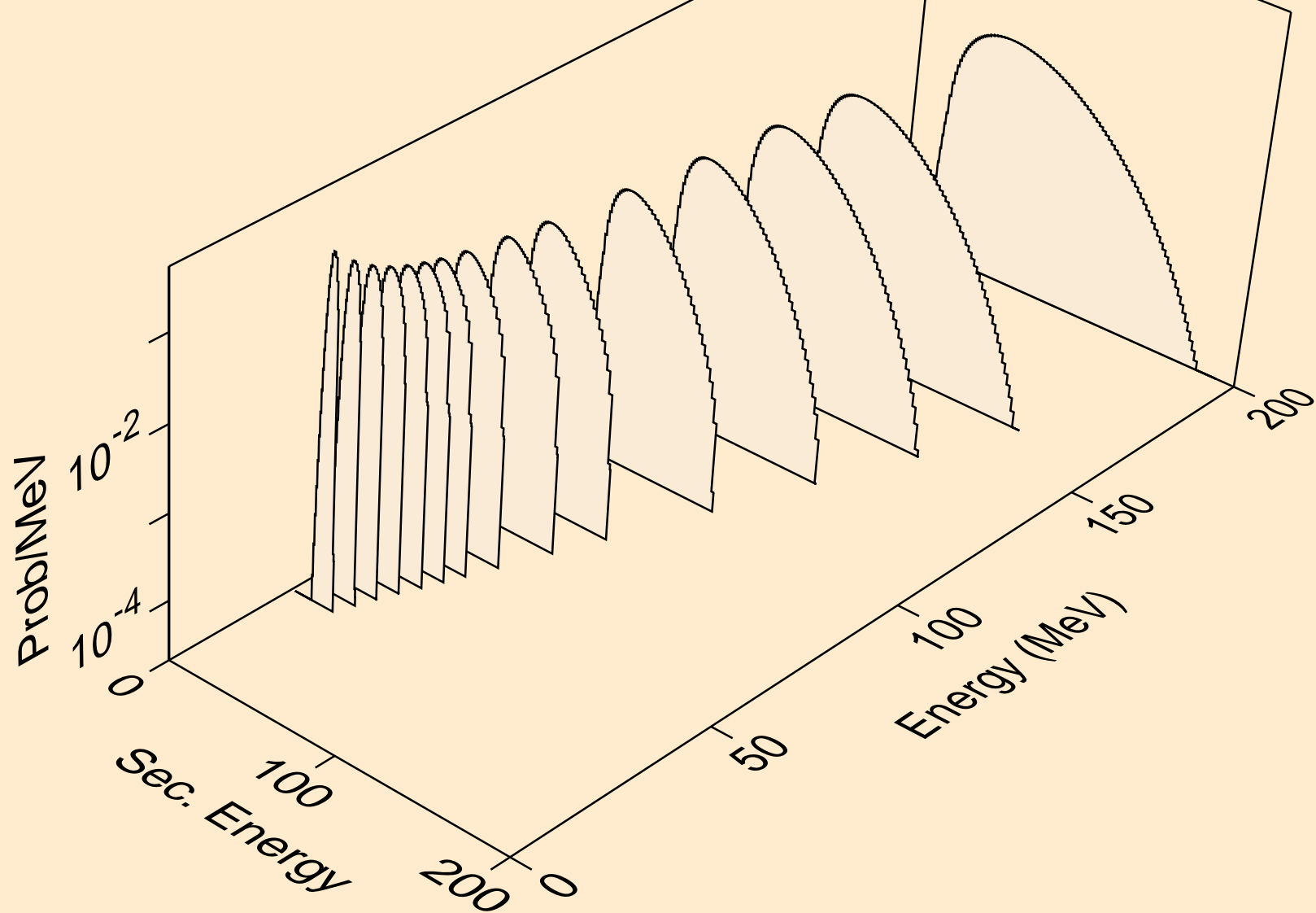
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,t)



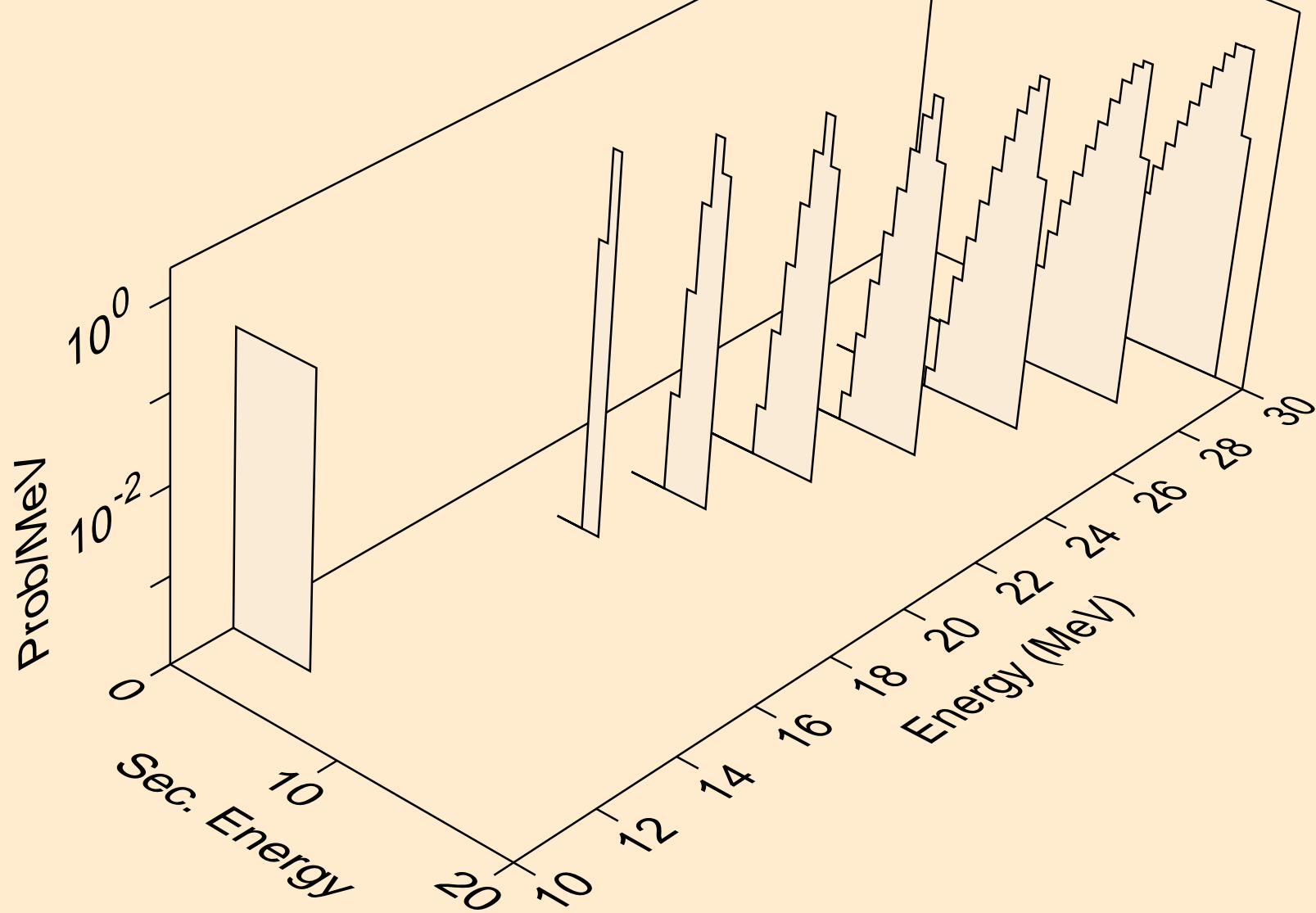
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,pt)



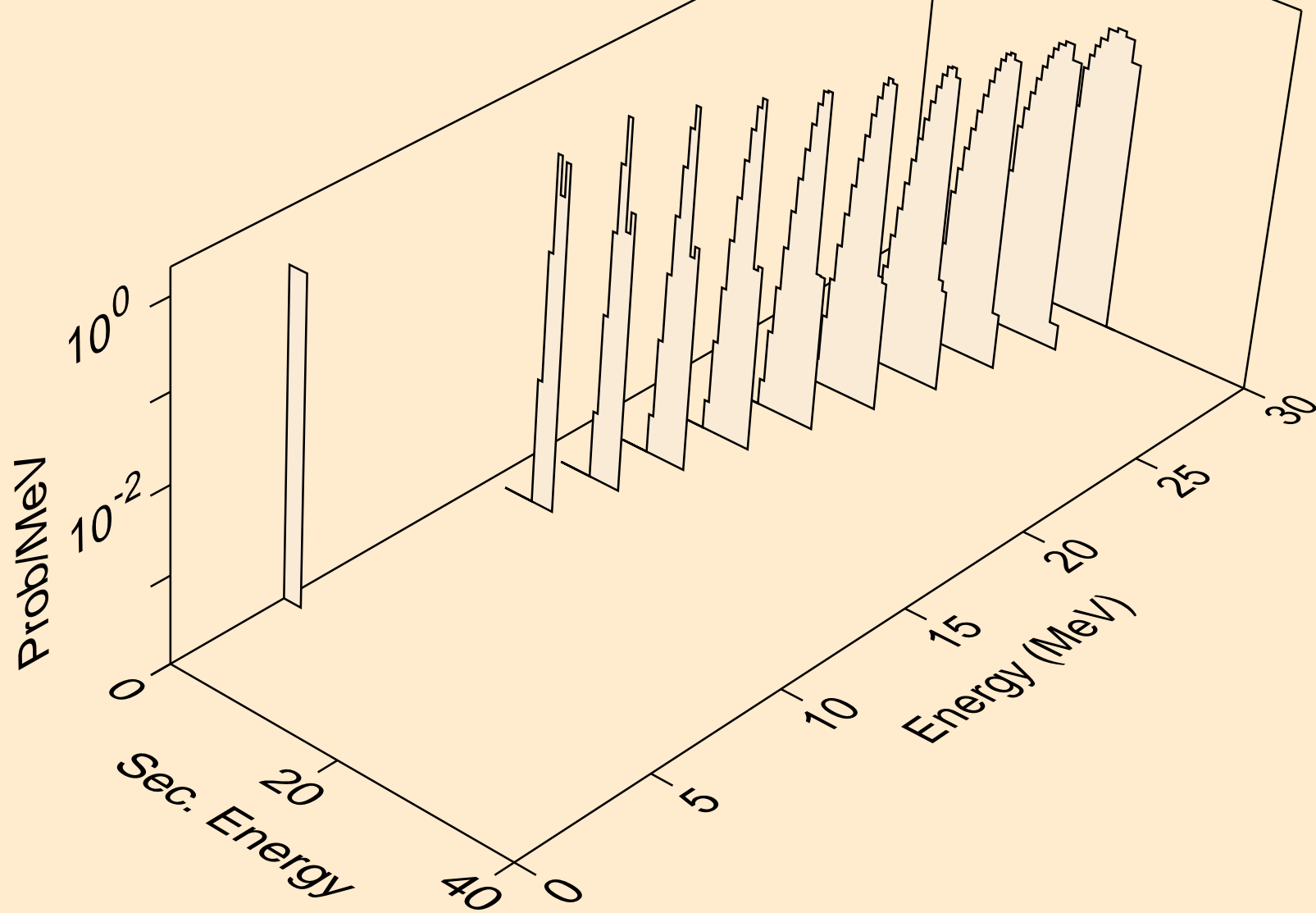
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he3s from (n,x)



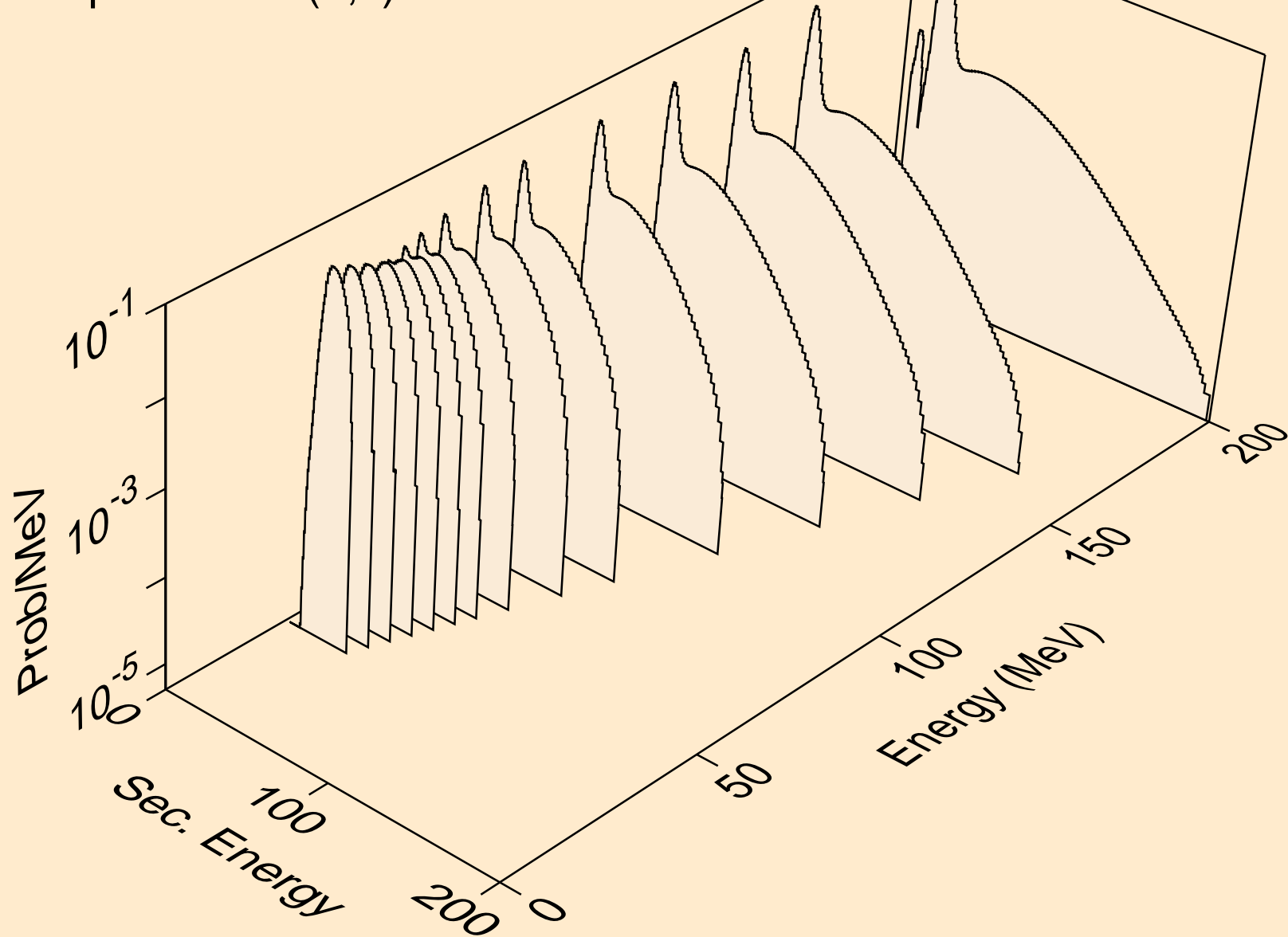
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he3s from (n,n\*)he3



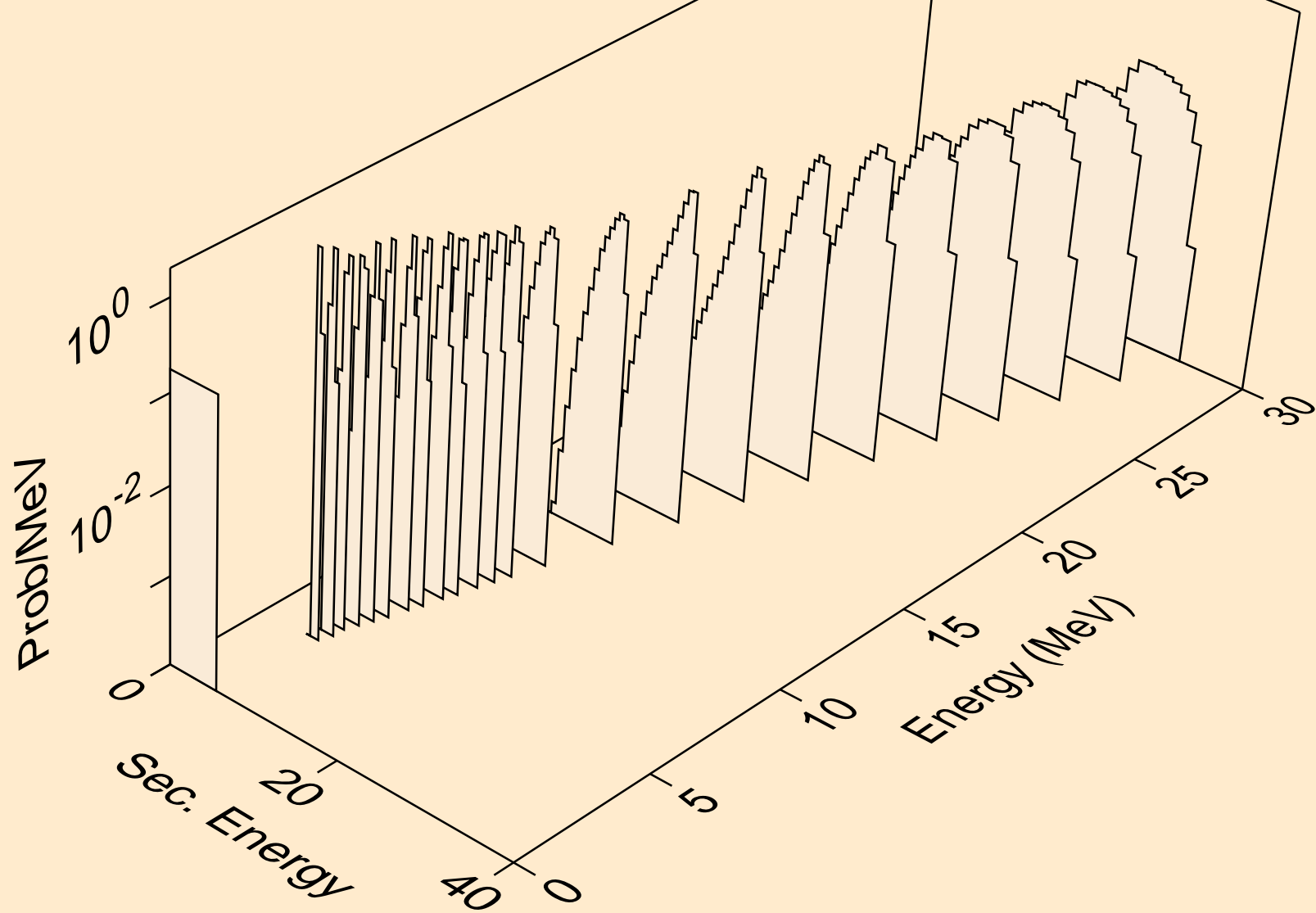
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he3s from (n,he3)



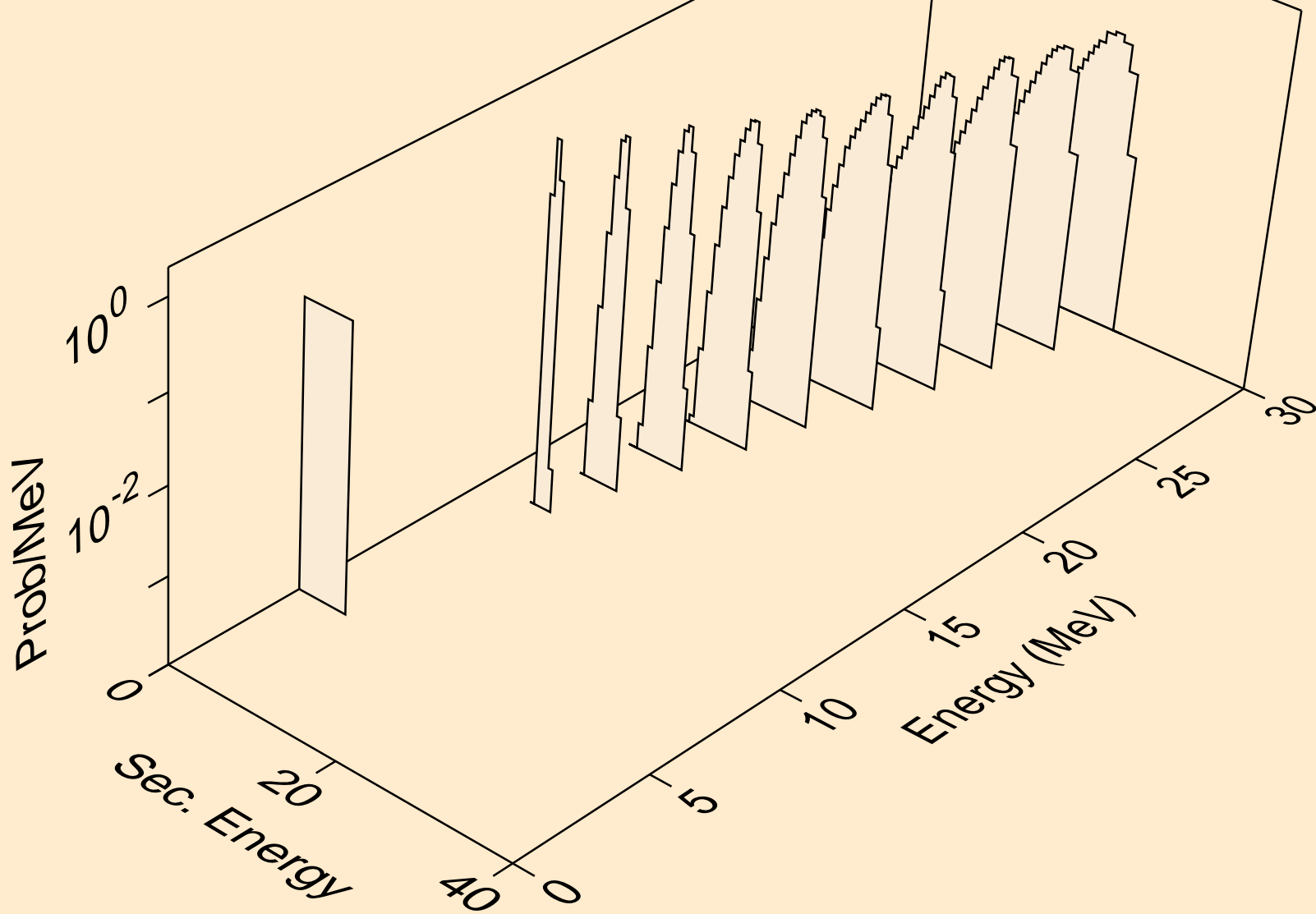
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alphas from (n,x)



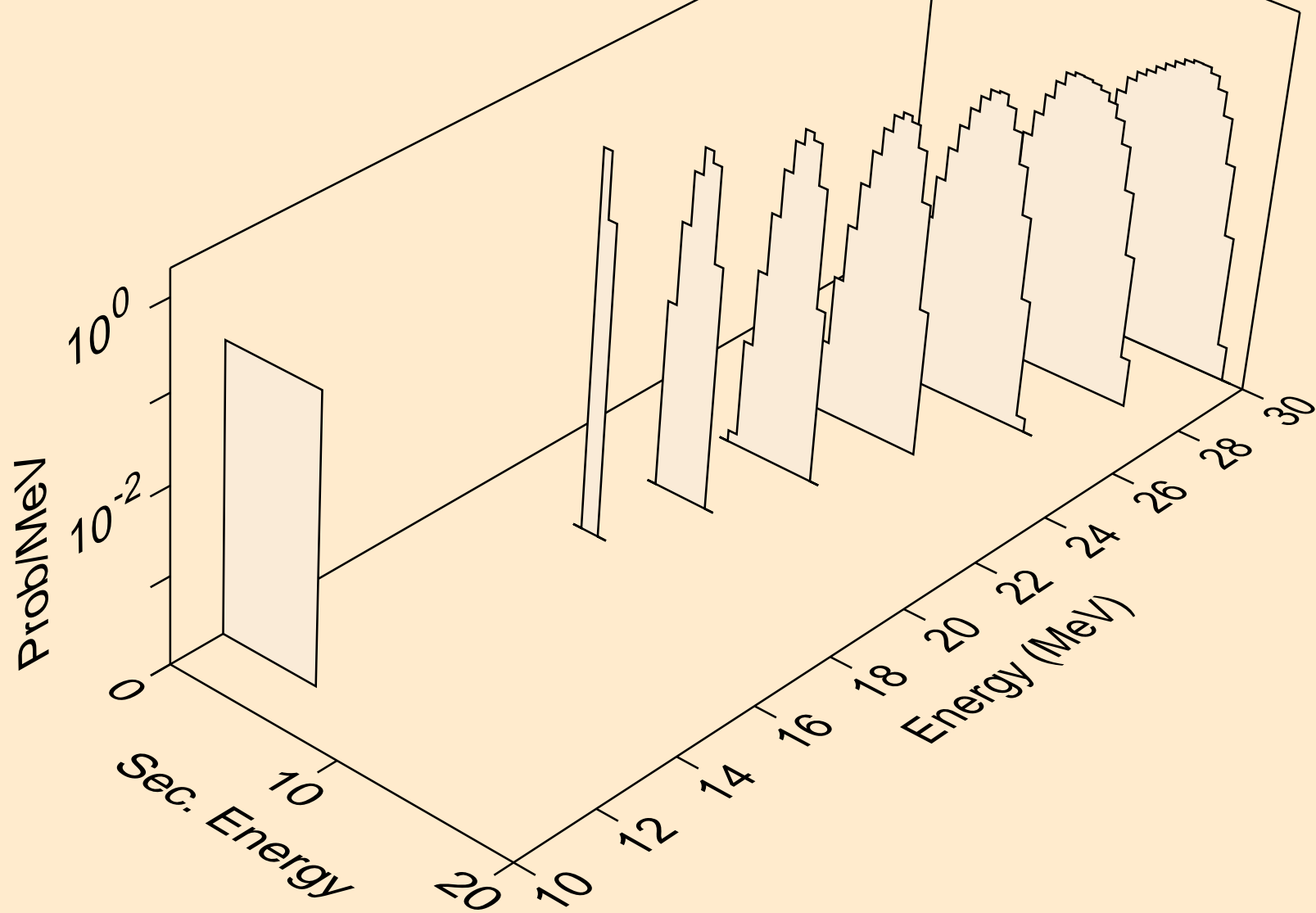
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



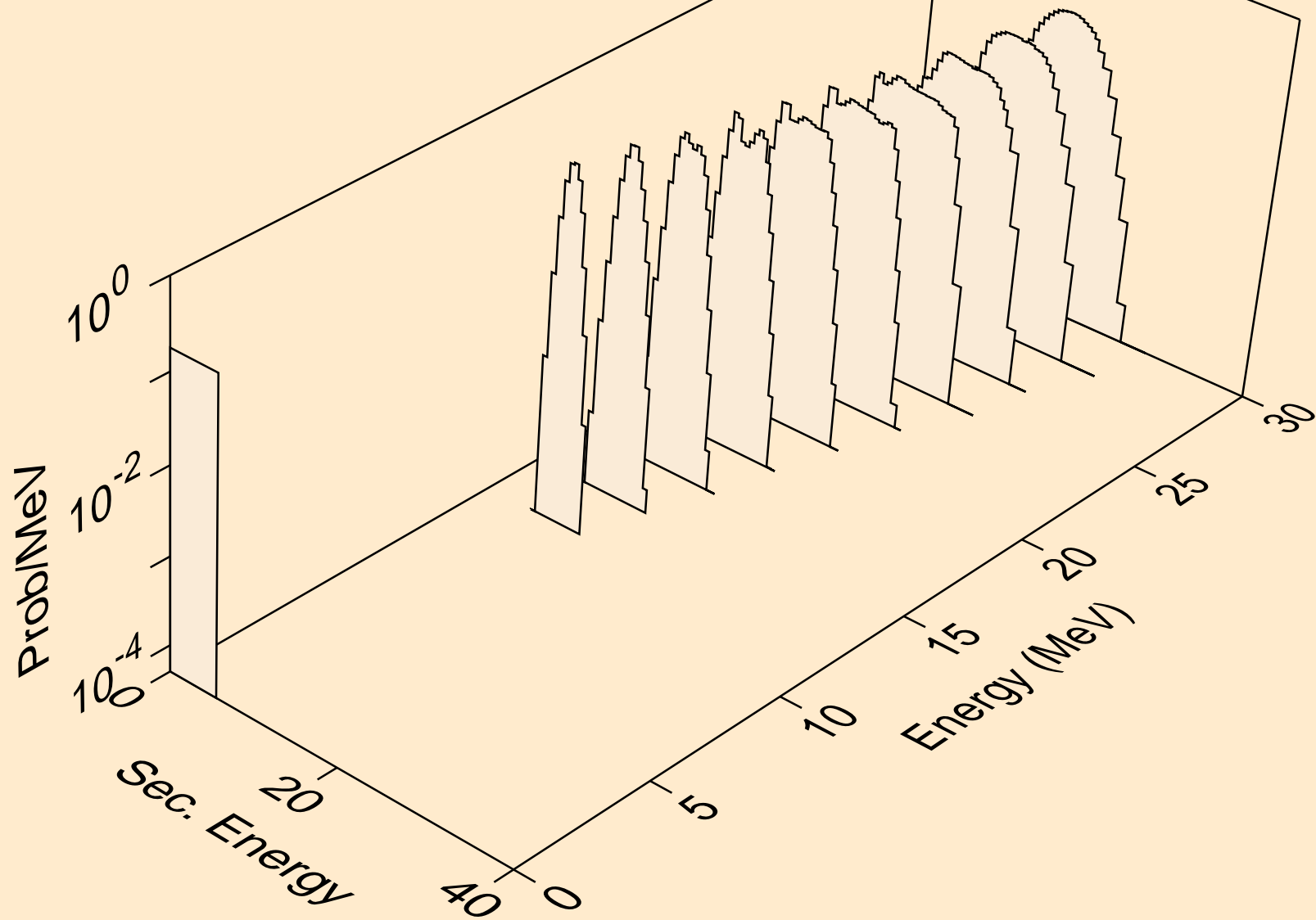
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alphas from (n,2n)a



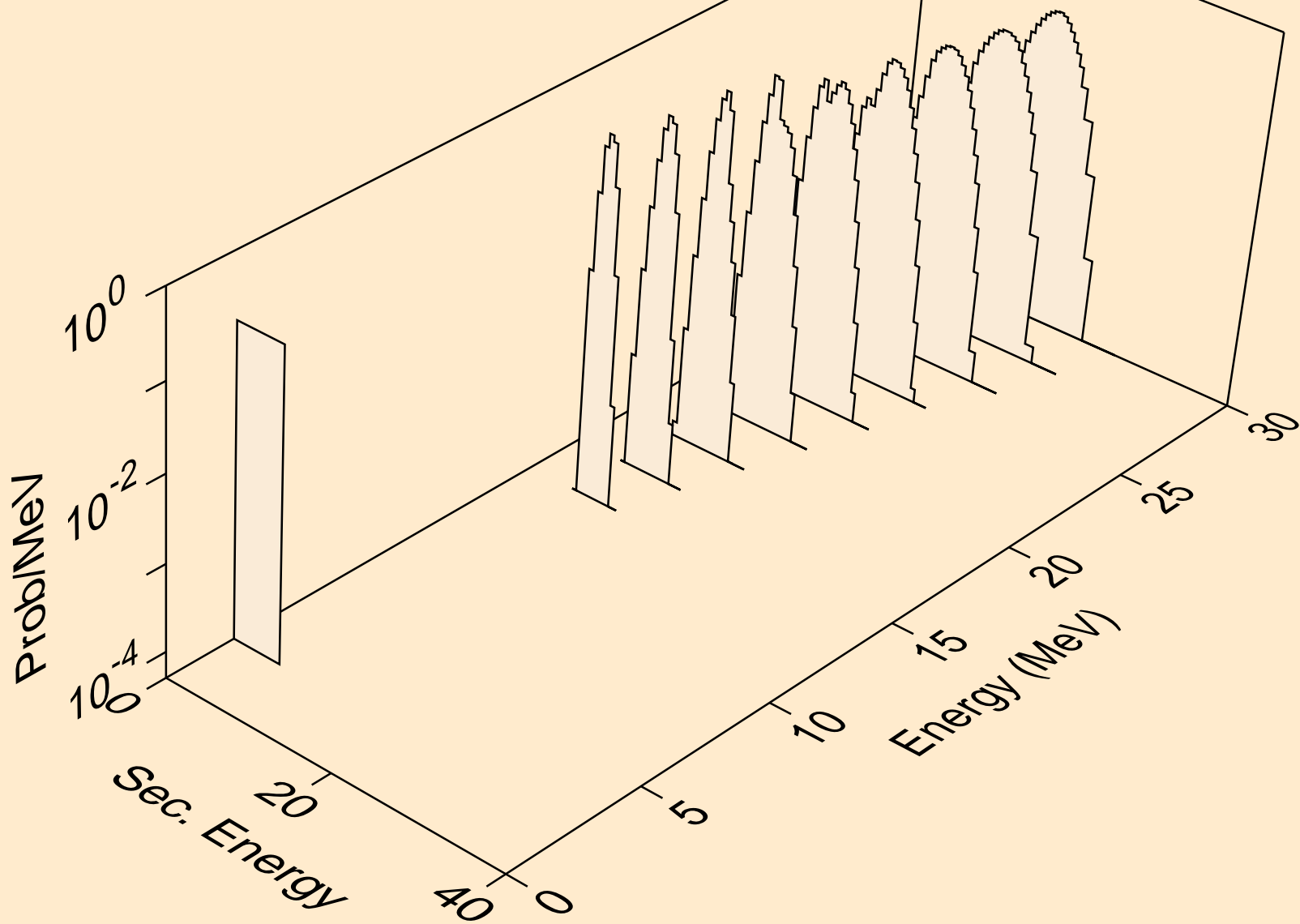
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alphas from (n,3n)a



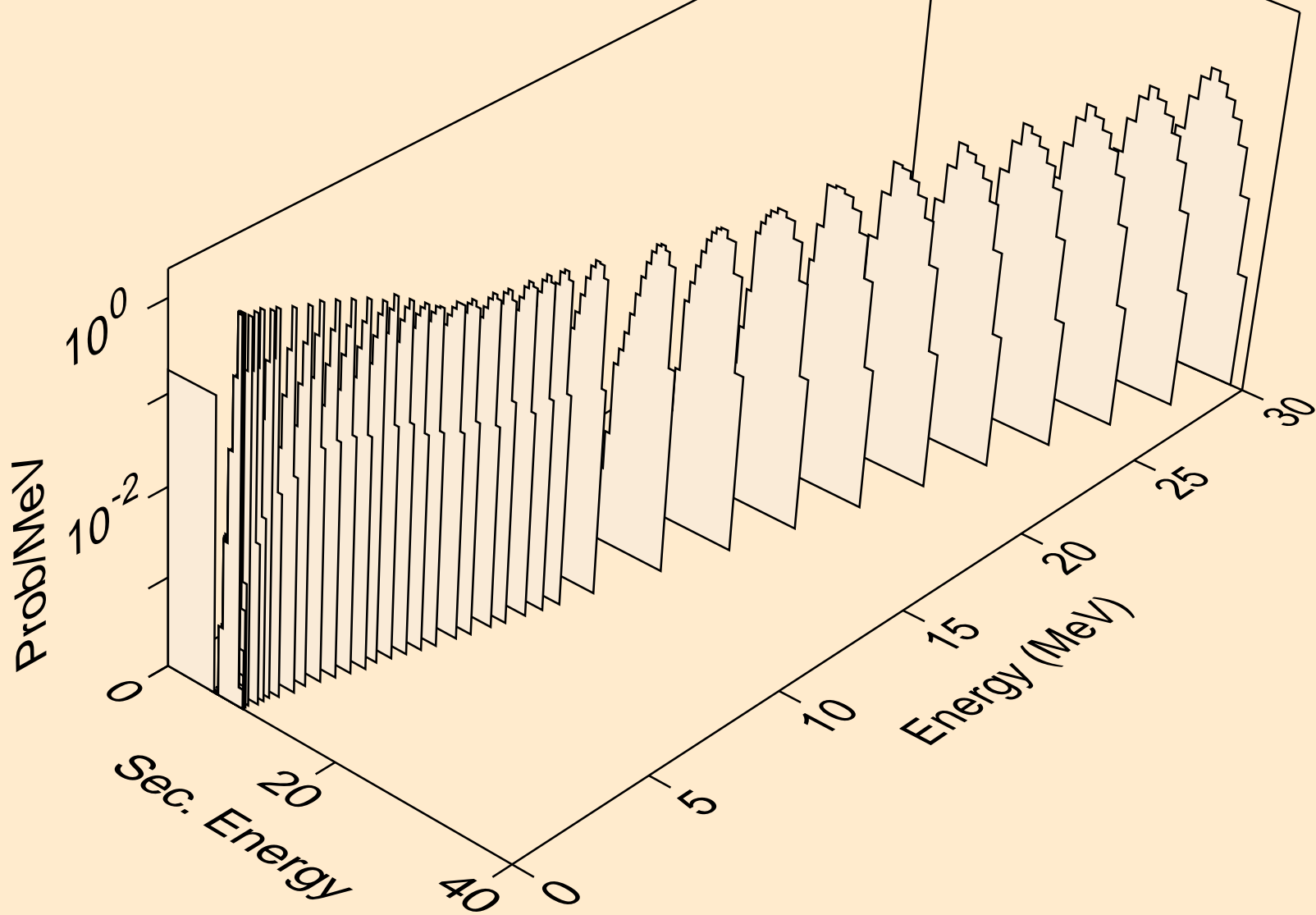
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alphas from (n,n\*)2a



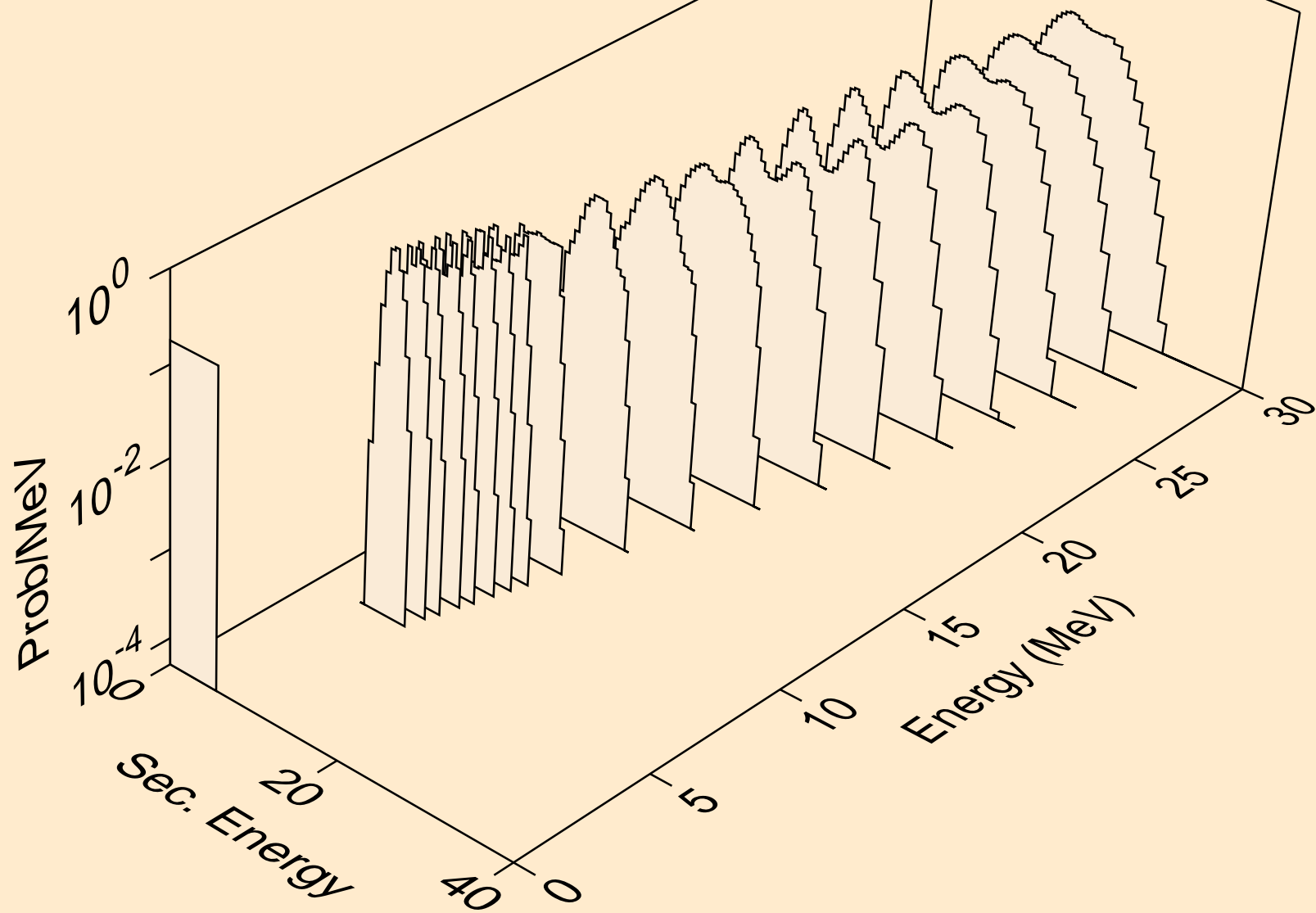
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



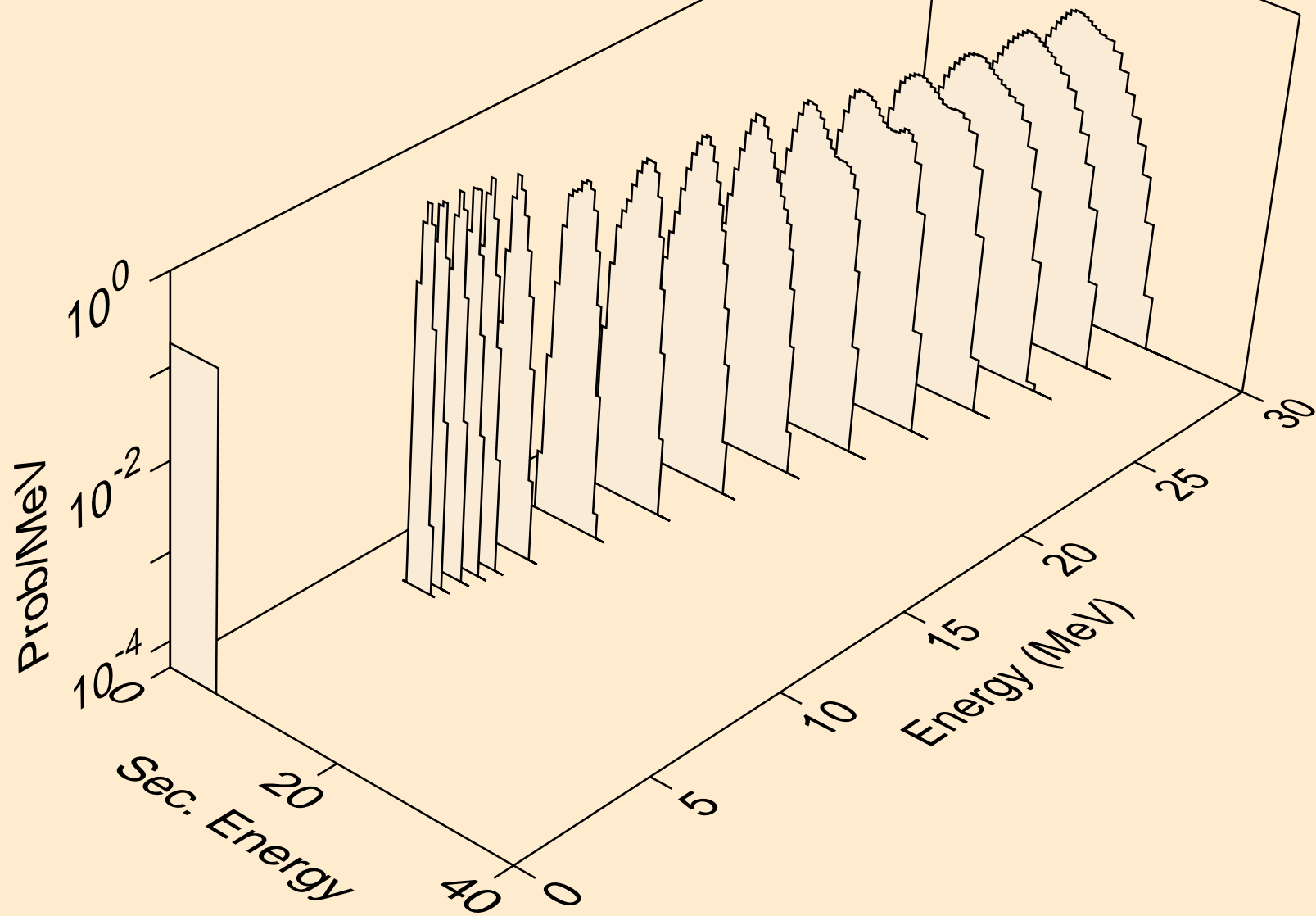
IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



IR189 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

