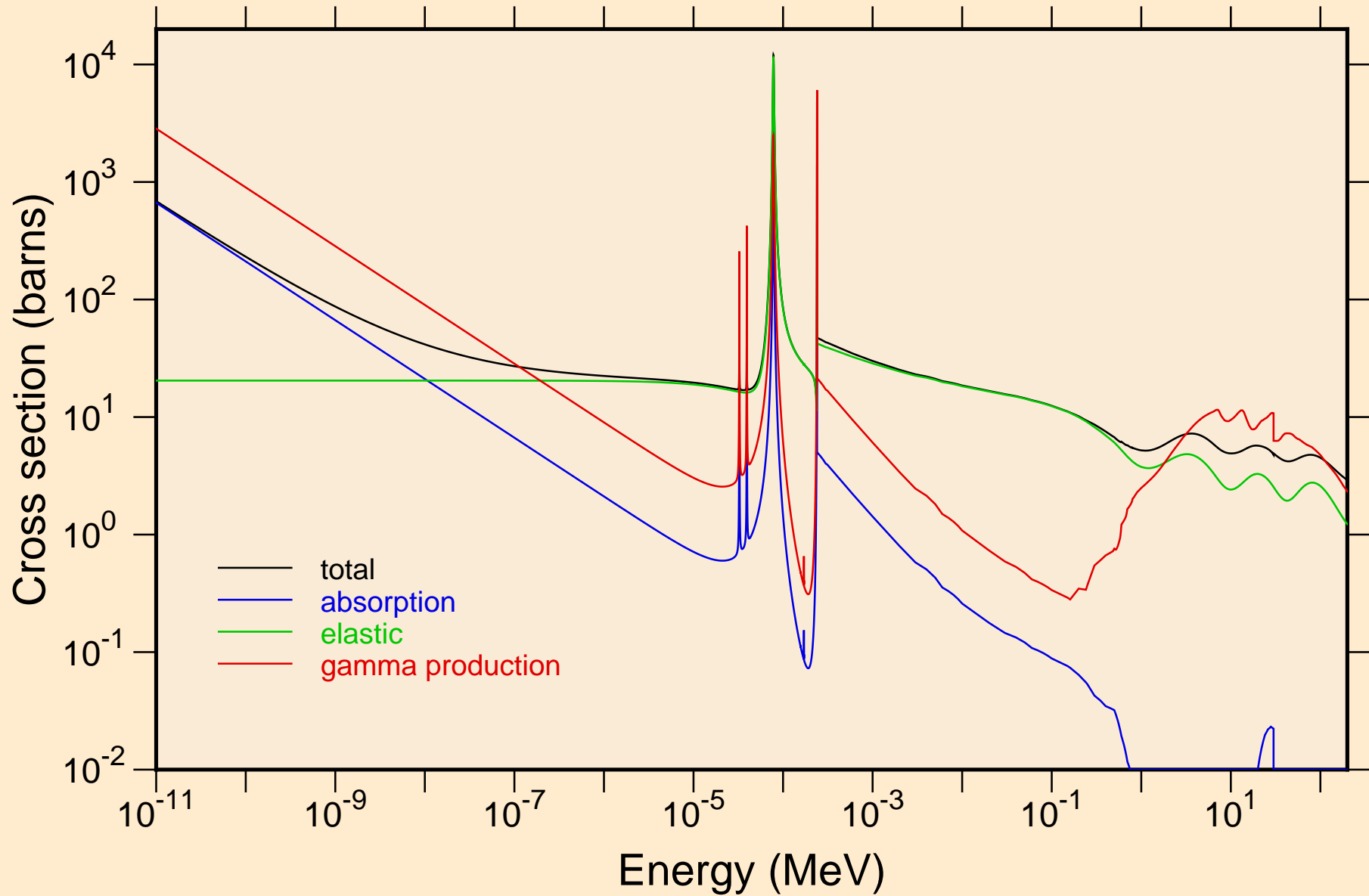
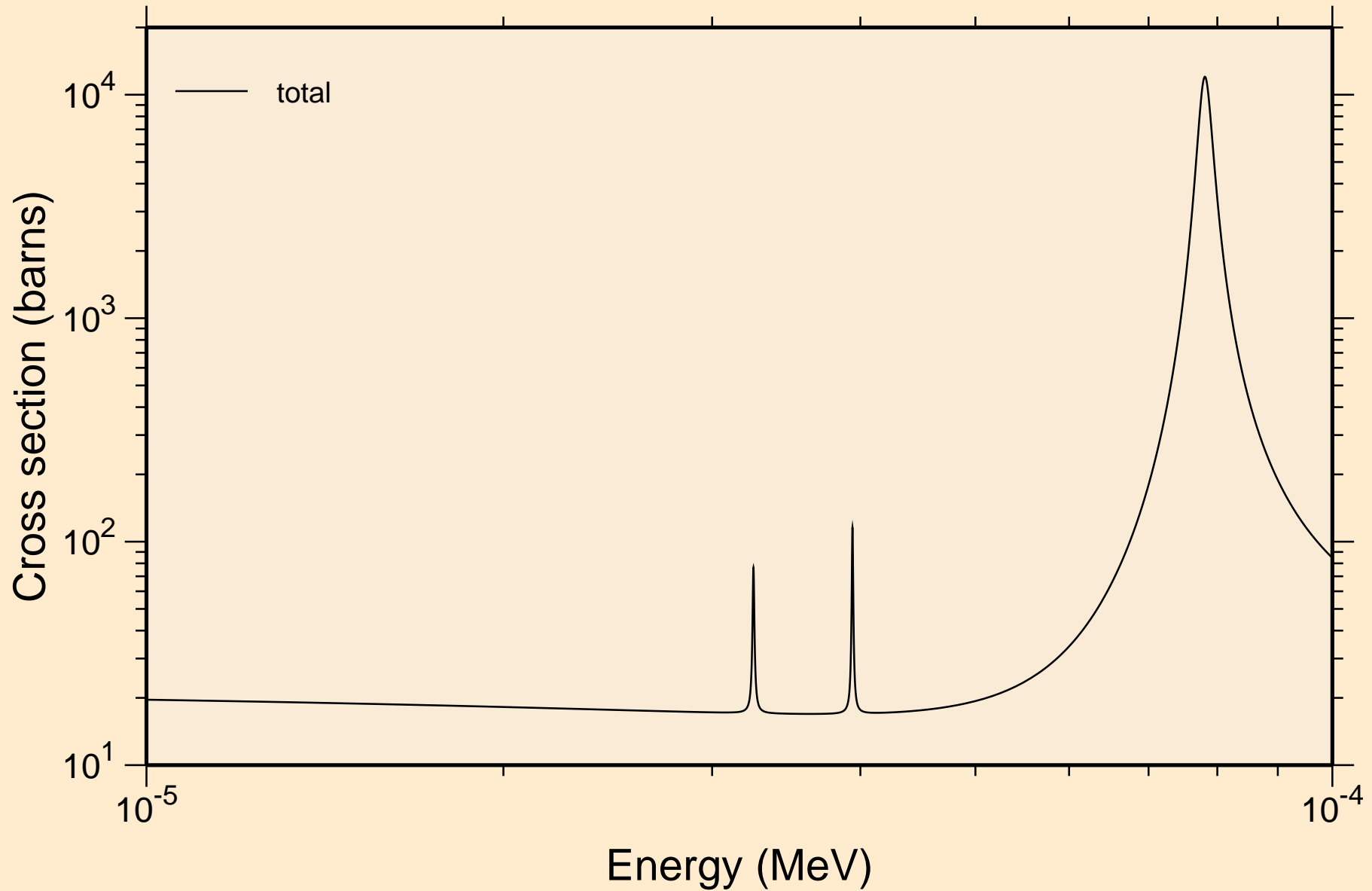


# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

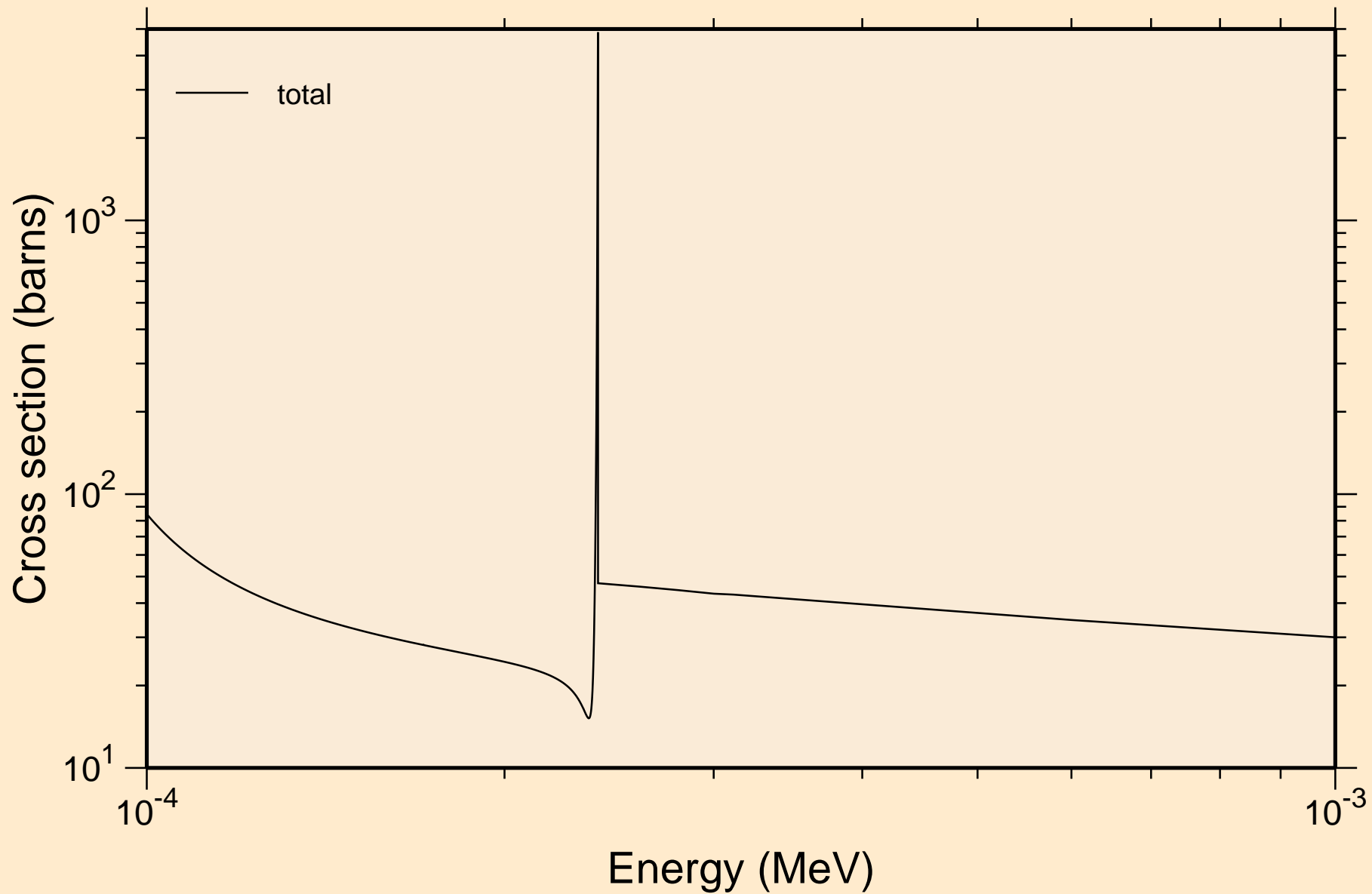
## Principal cross sections



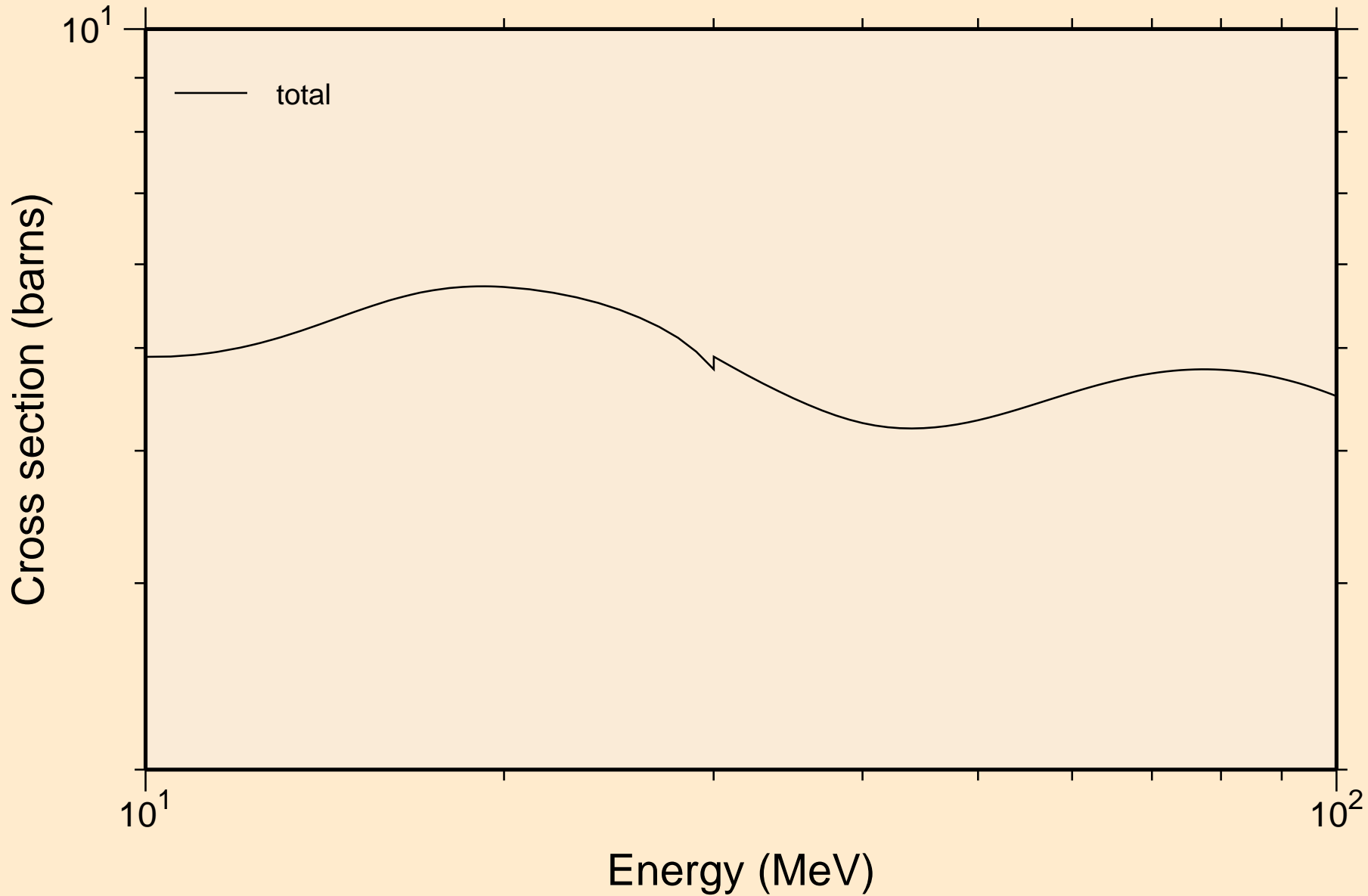
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



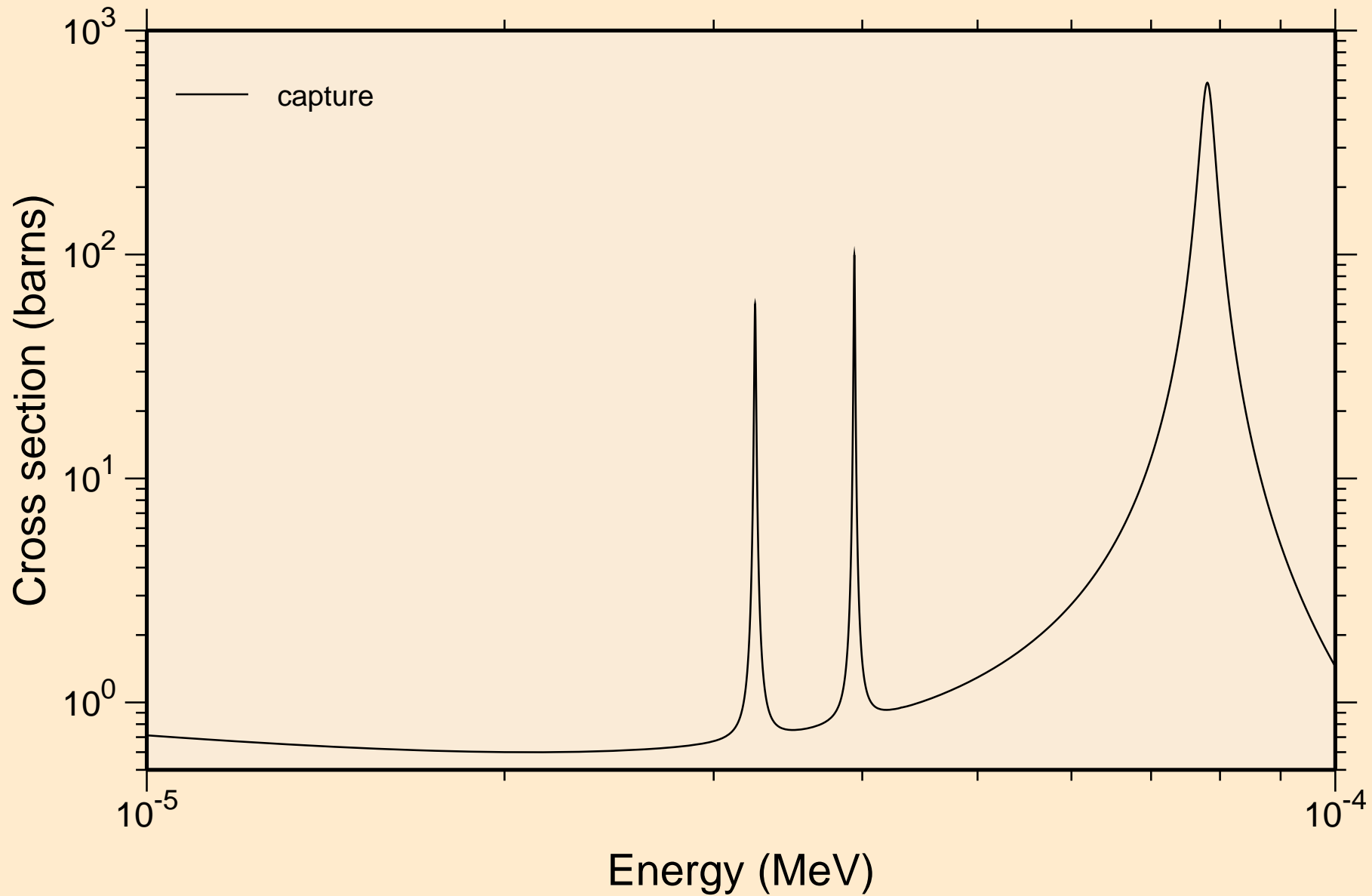
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



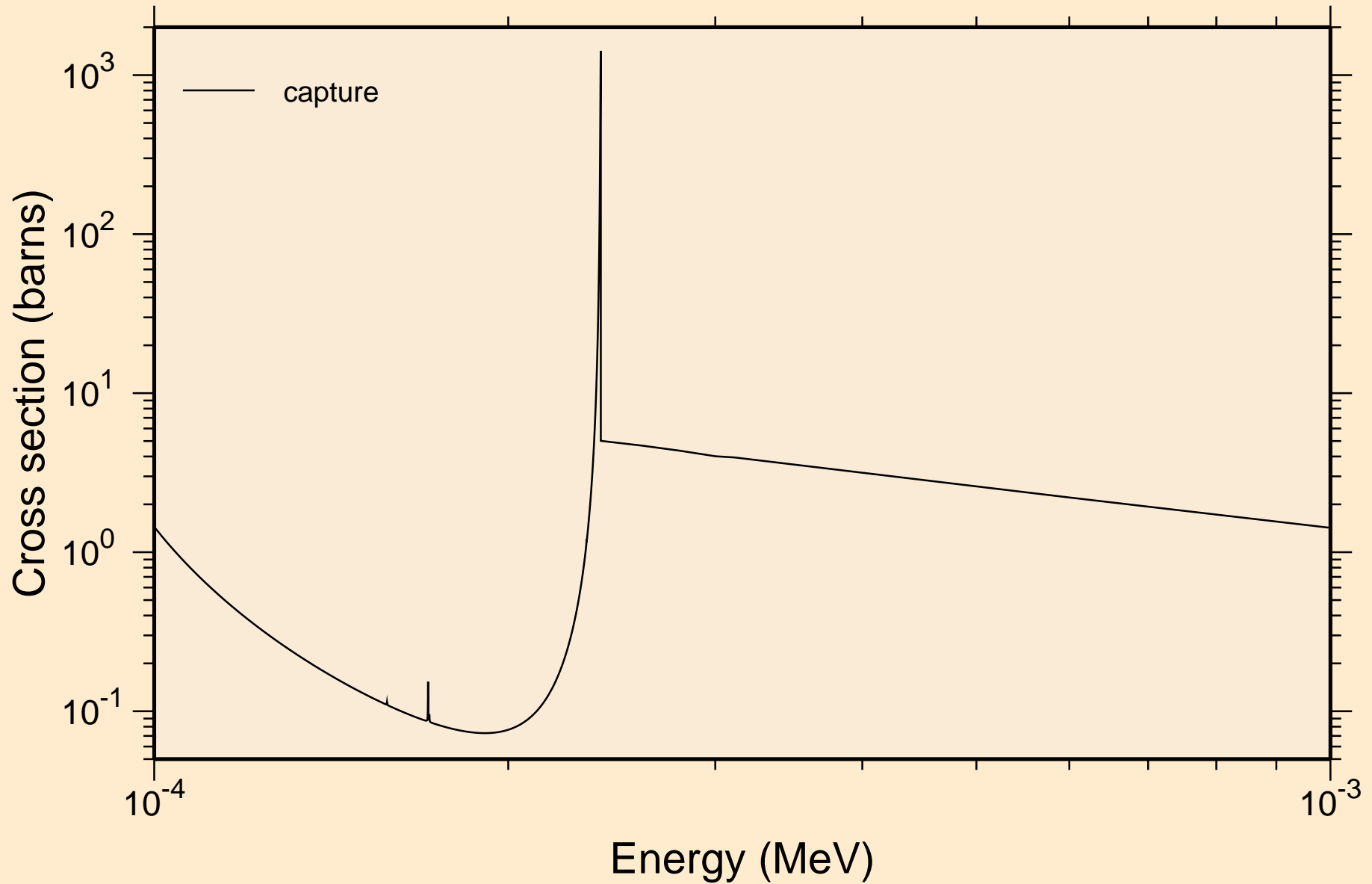
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



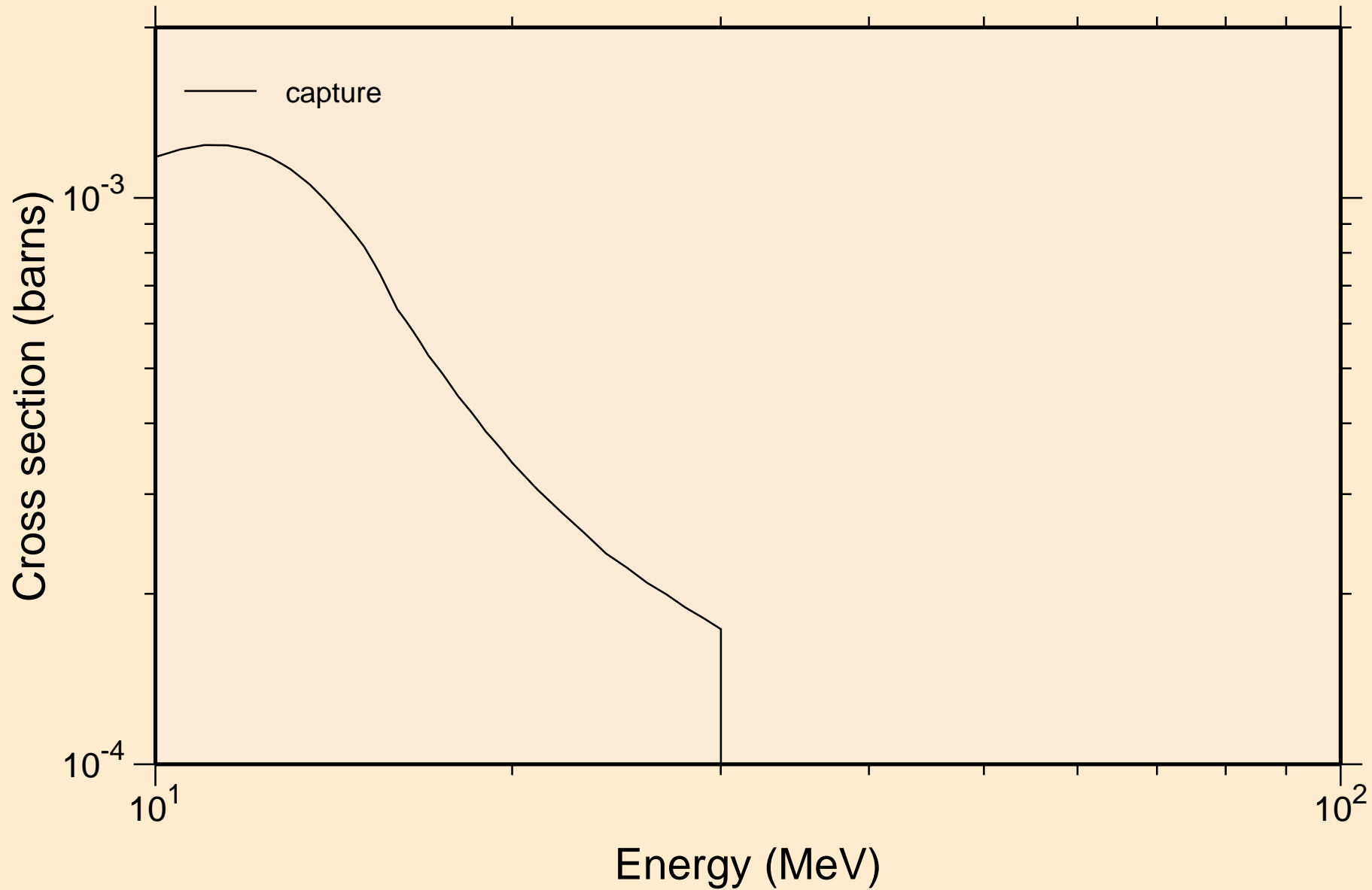
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

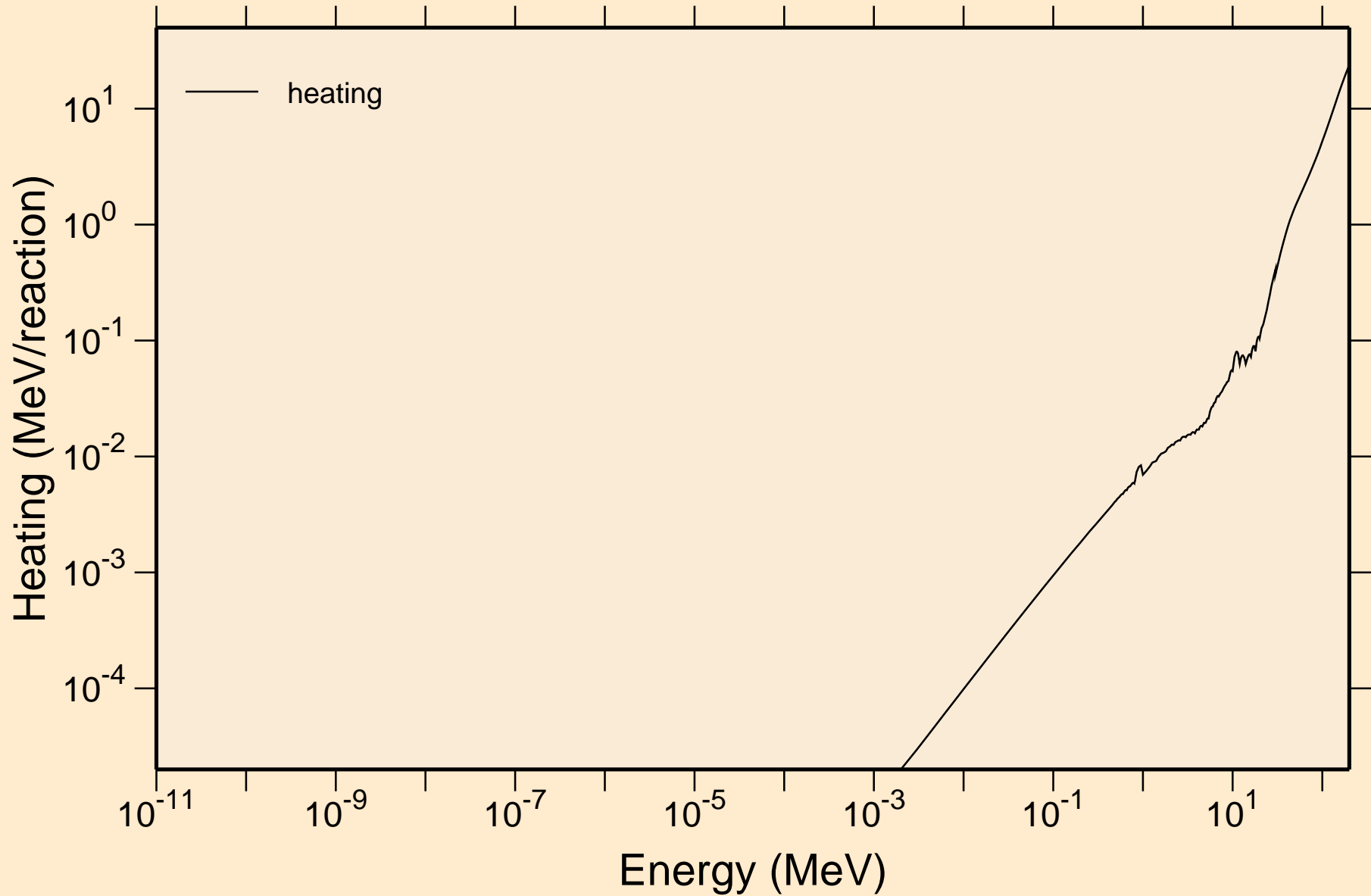


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



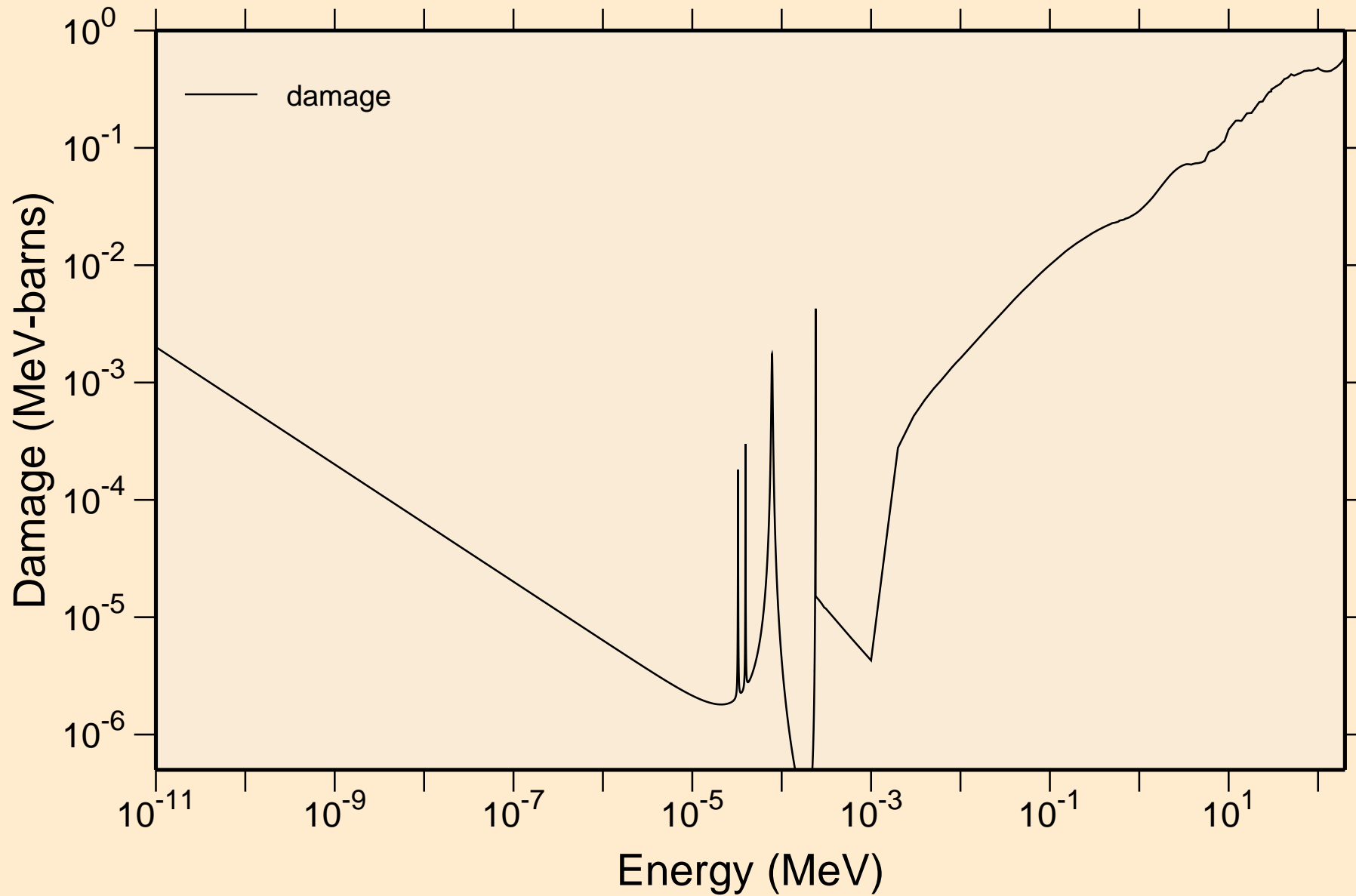
# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

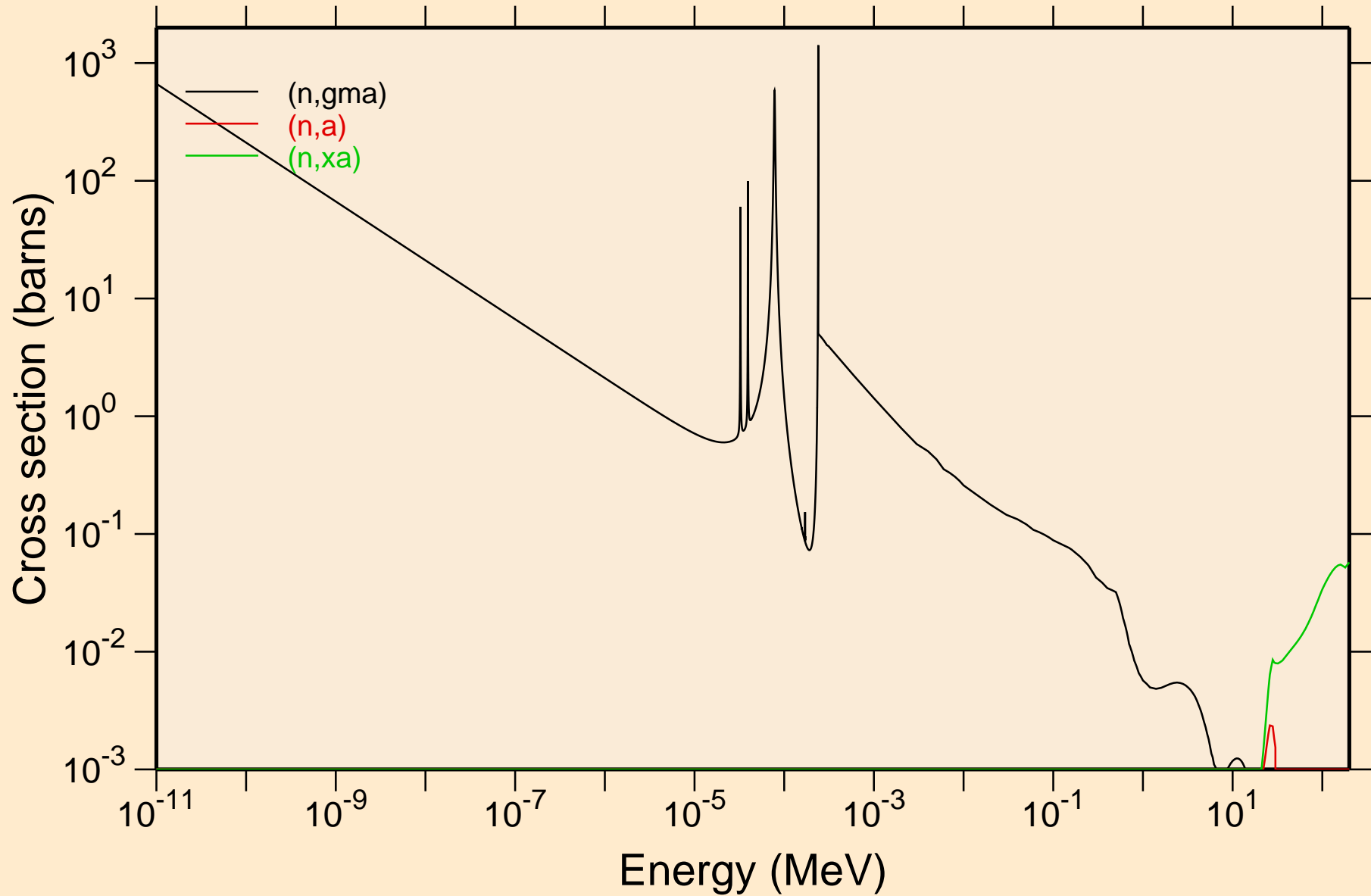




IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

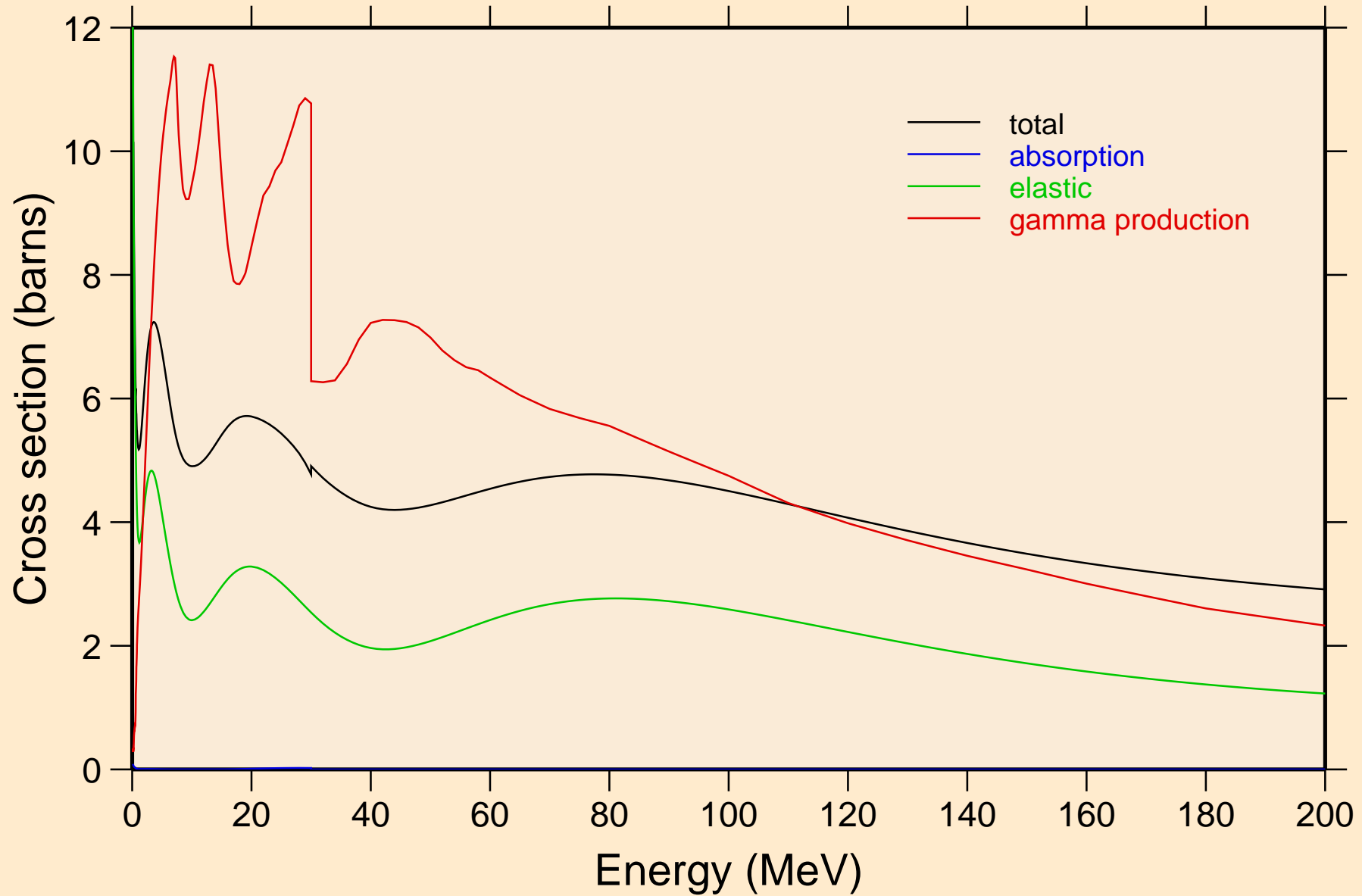


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



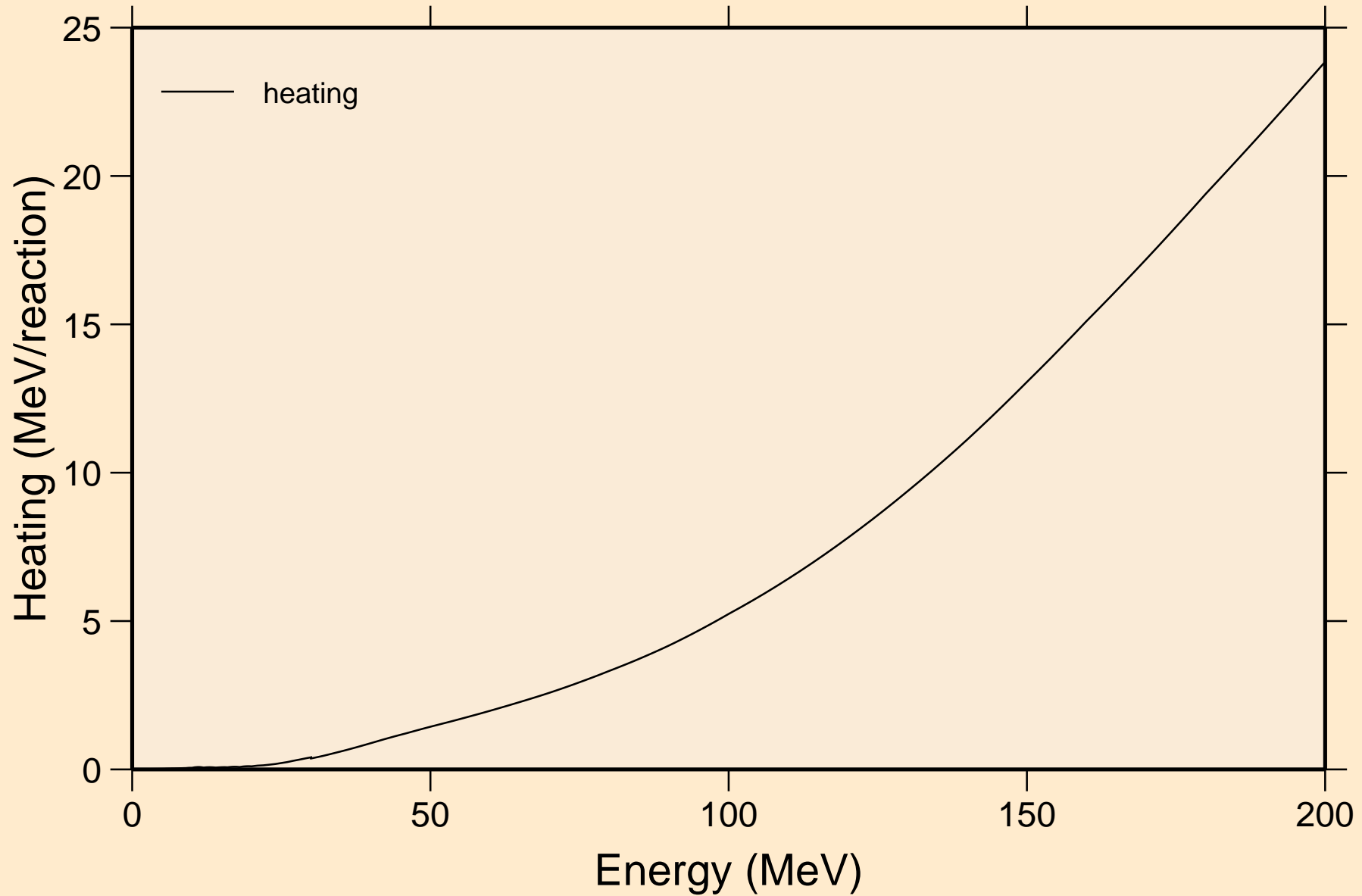
# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections

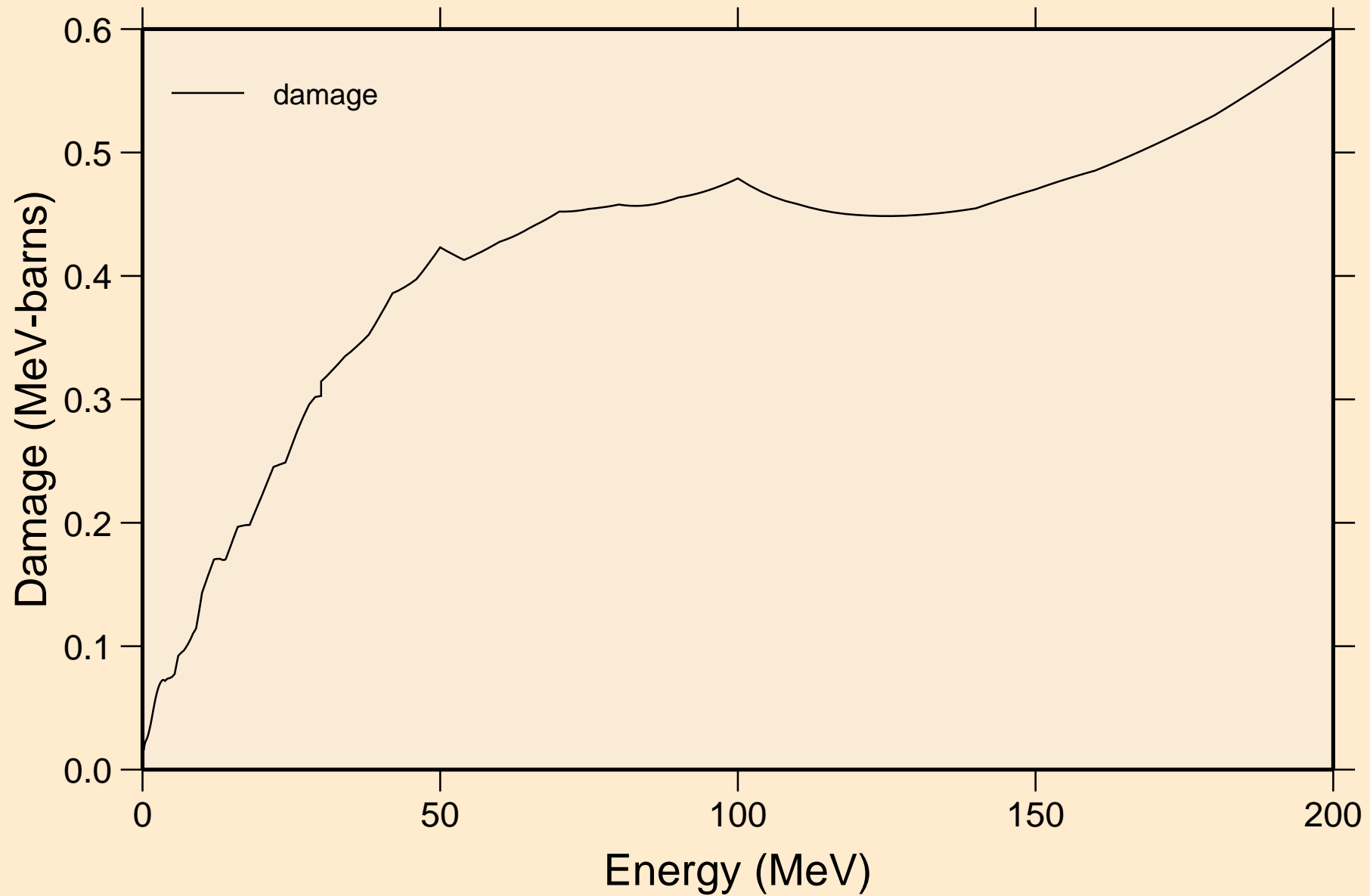


# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

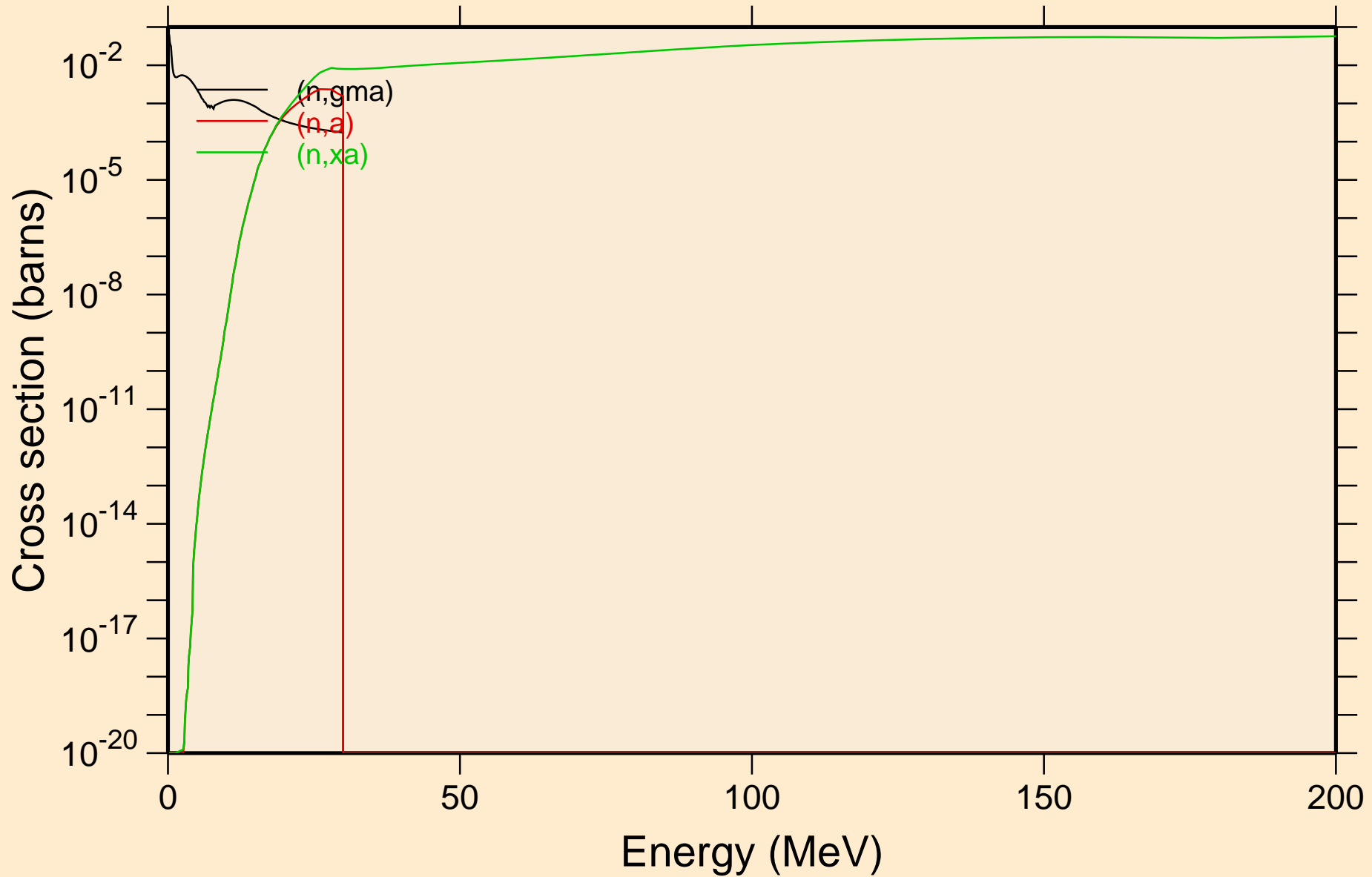


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

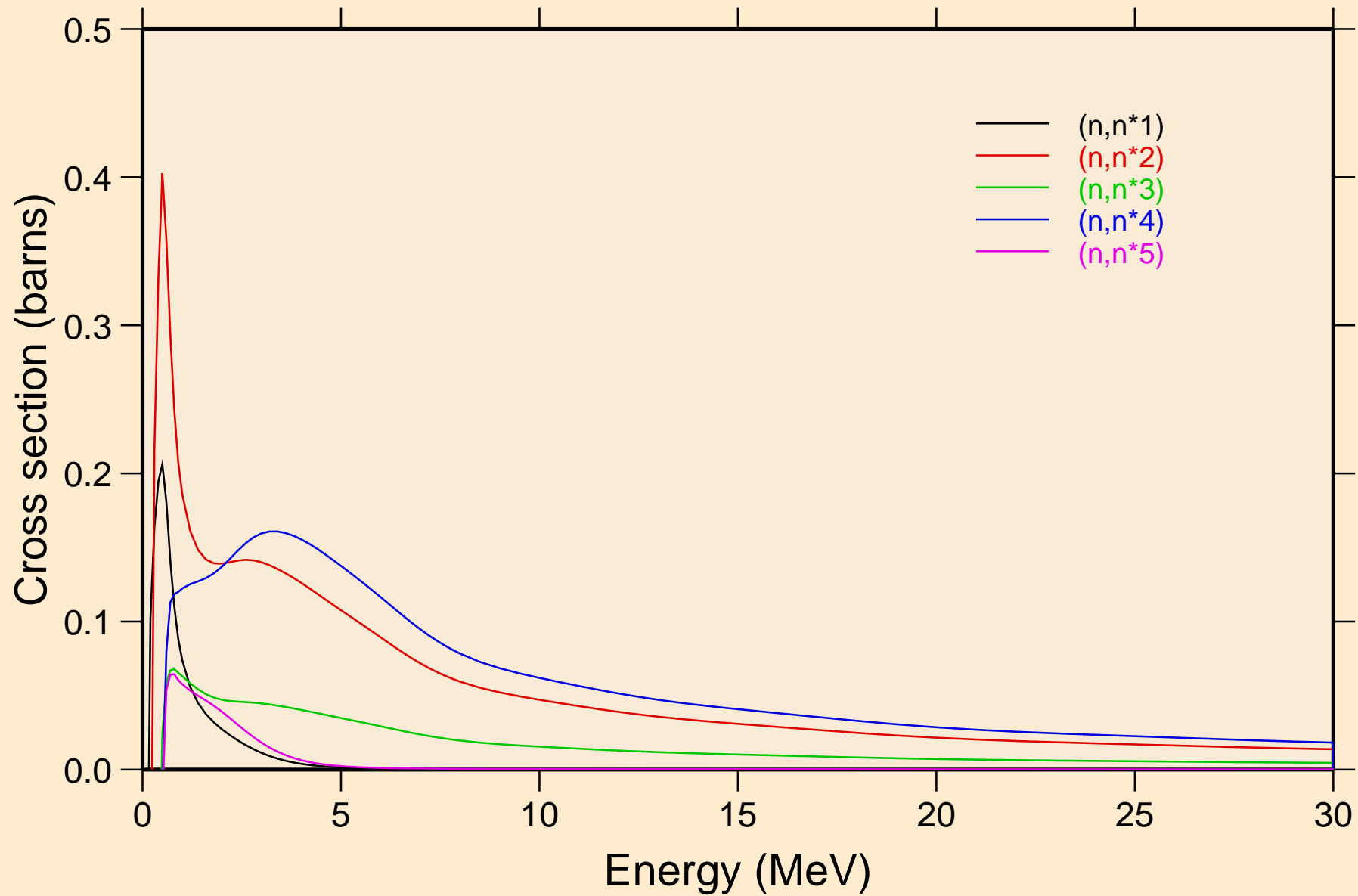


# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

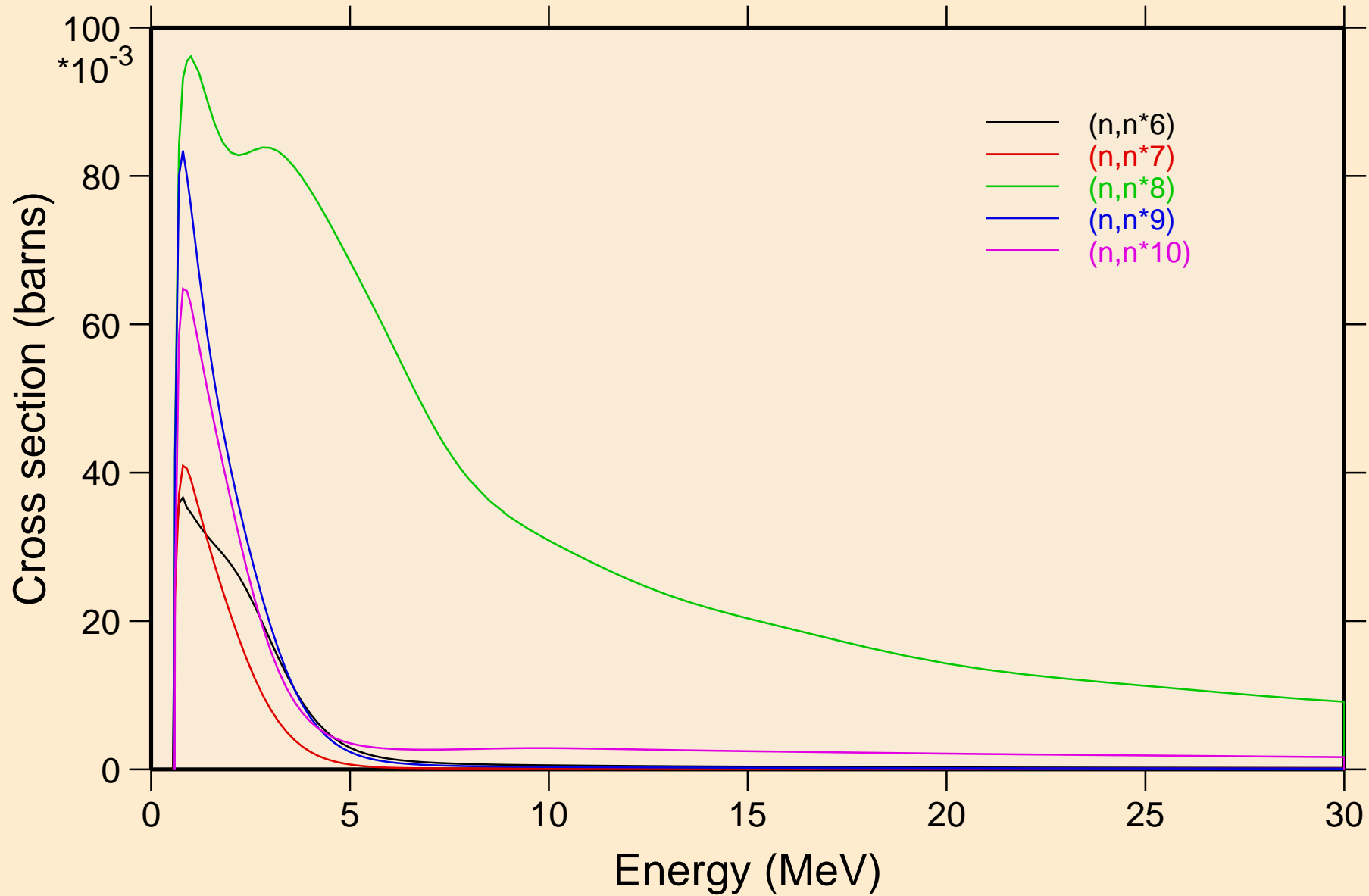
## Non-threshold reactions



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

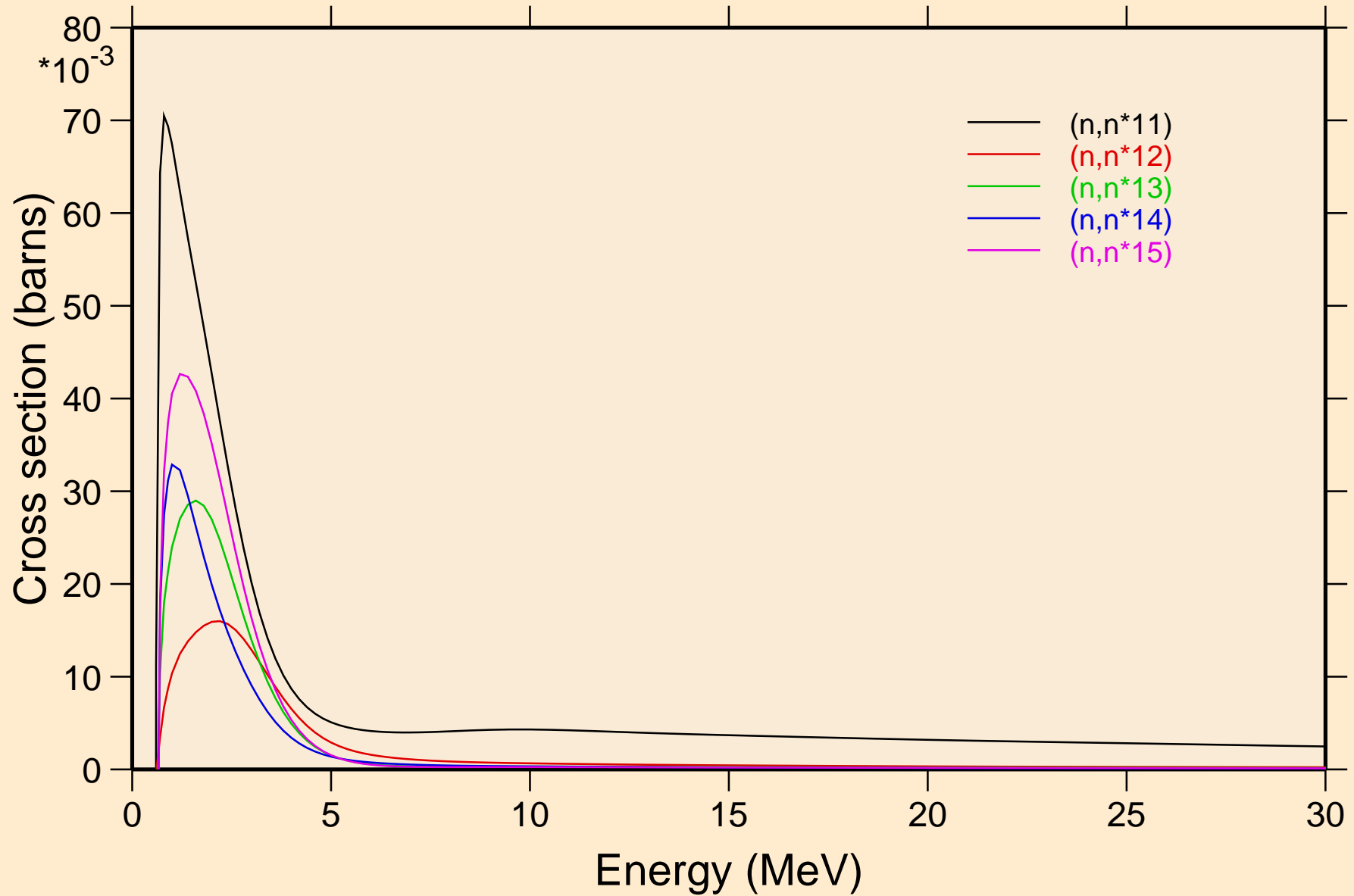


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

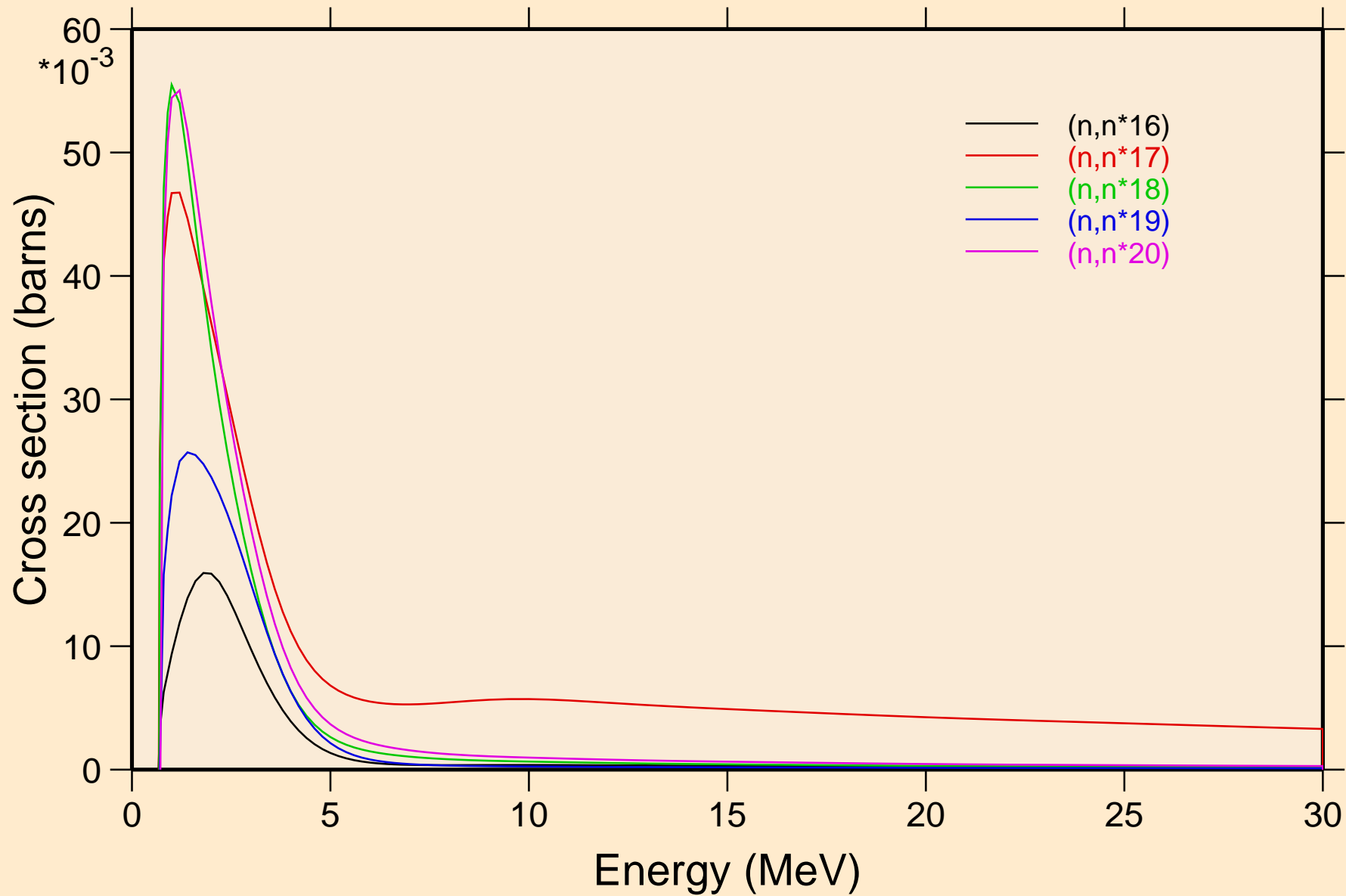




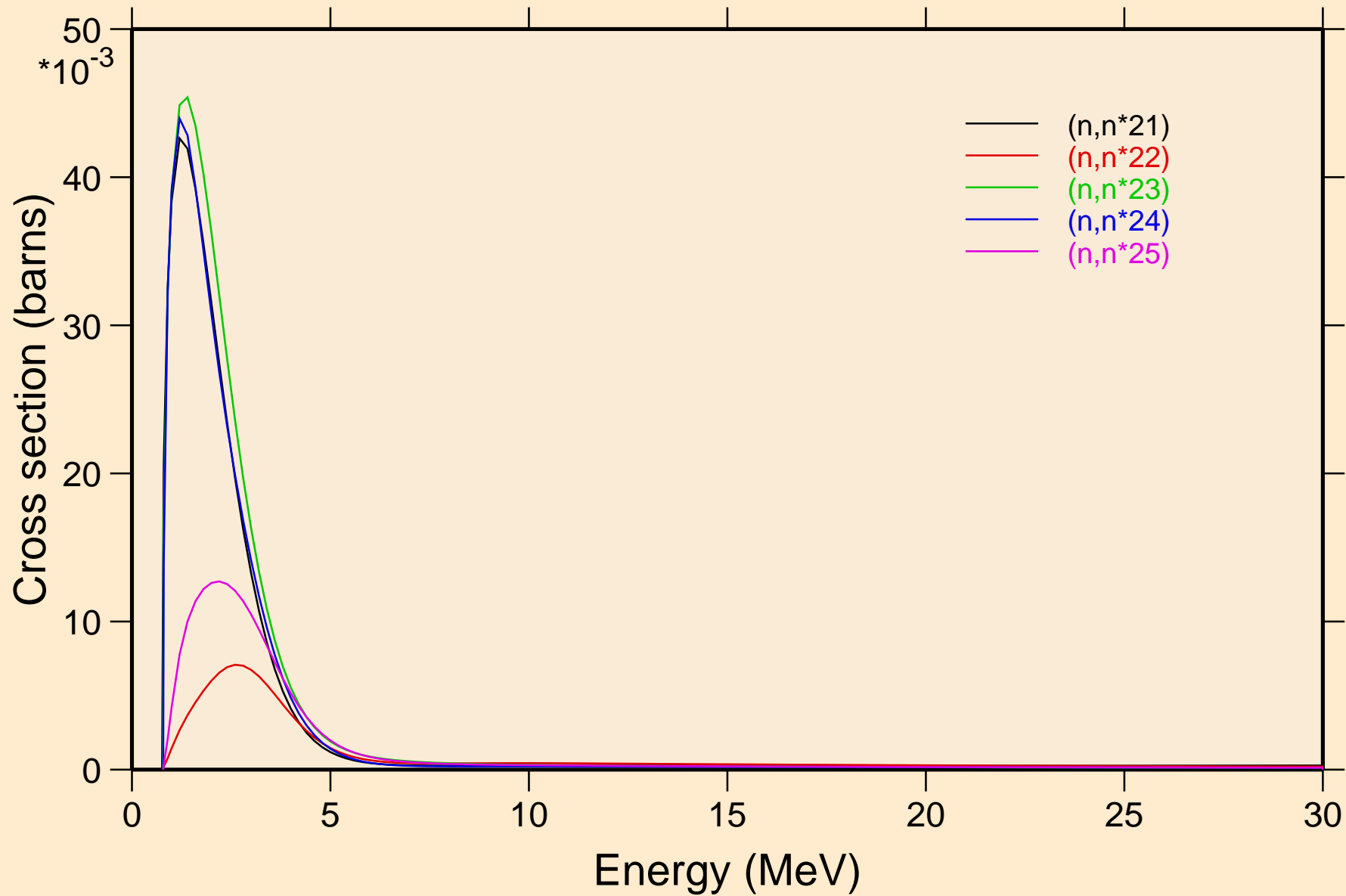
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



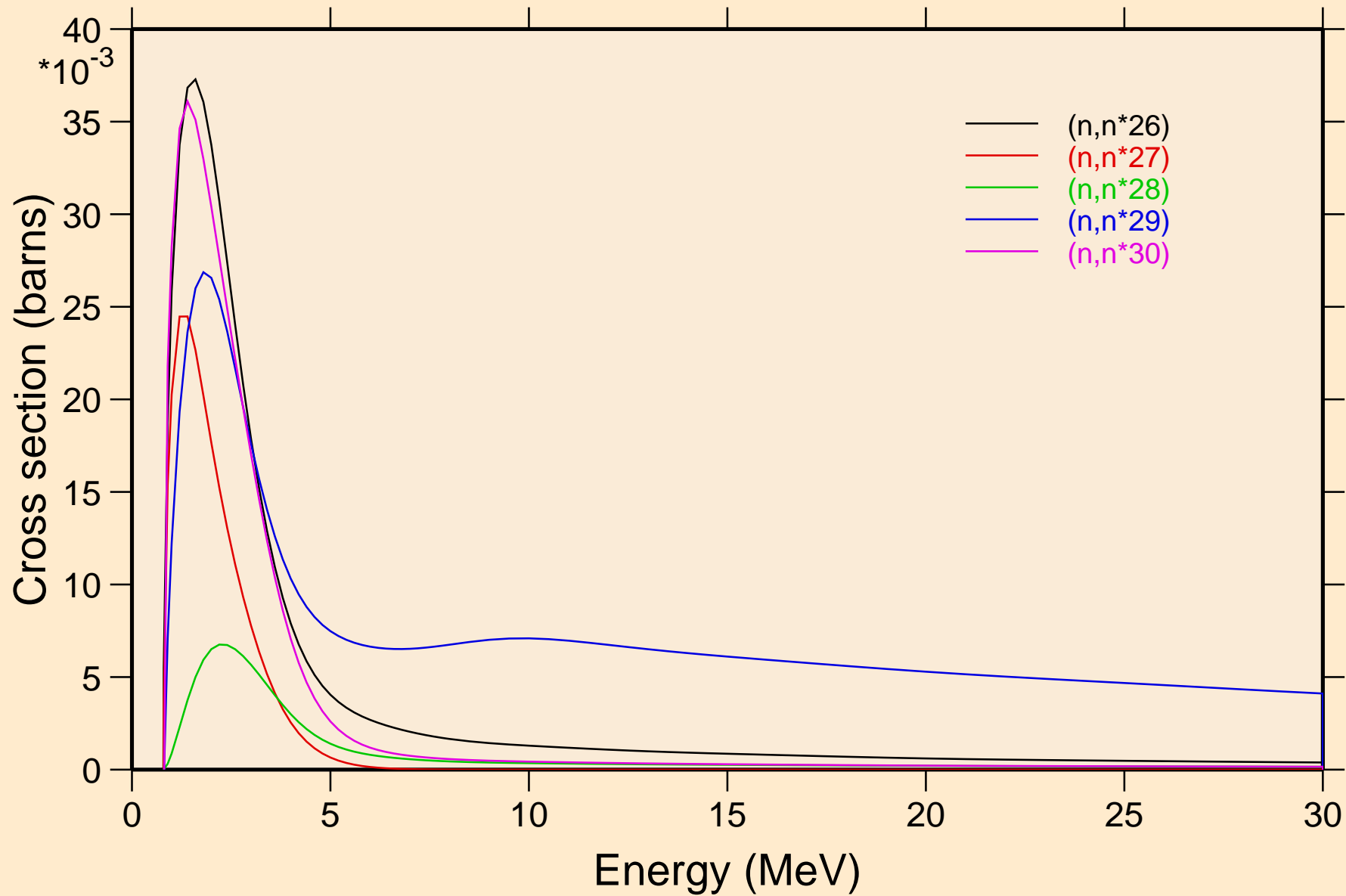
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



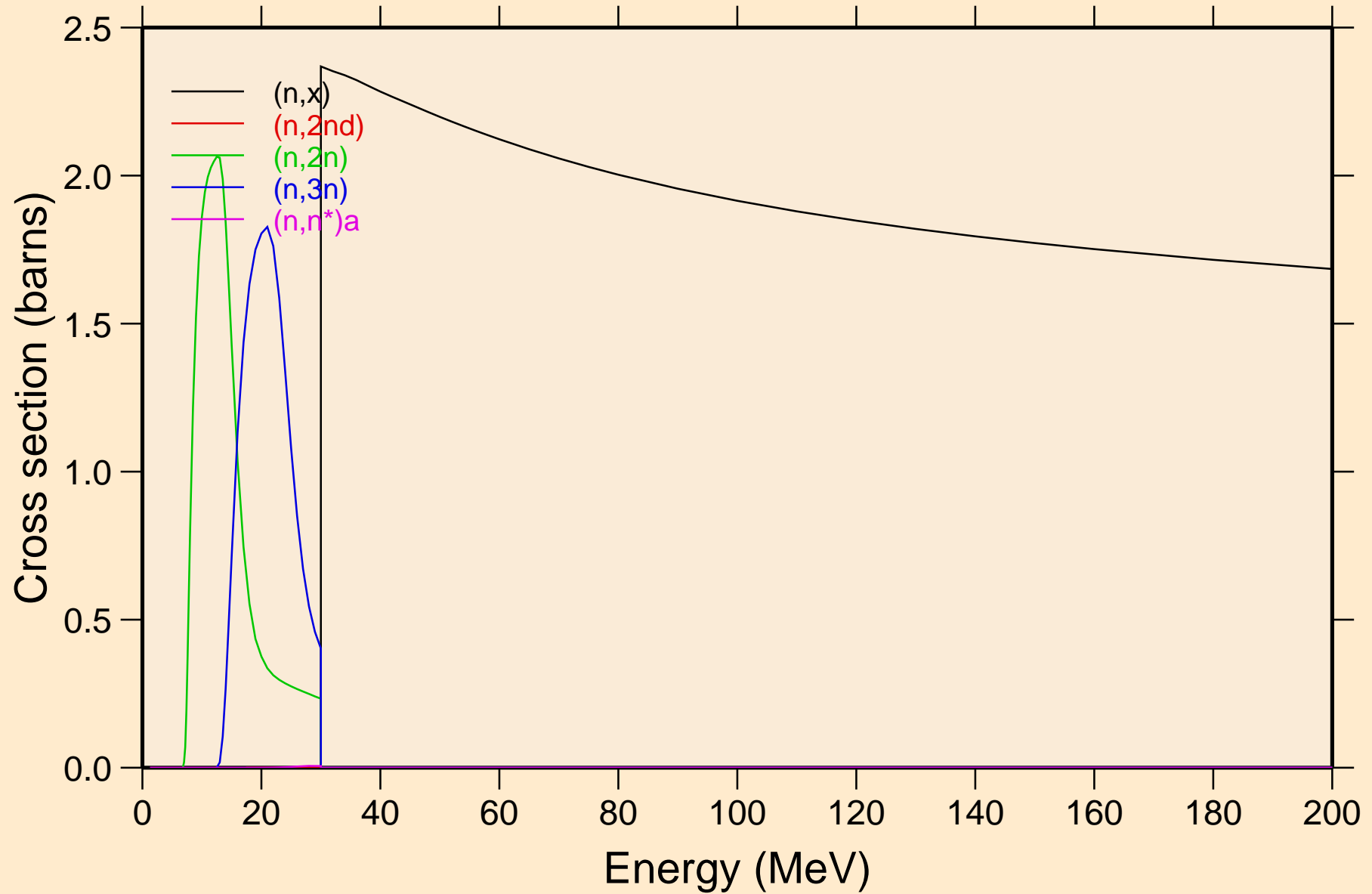
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



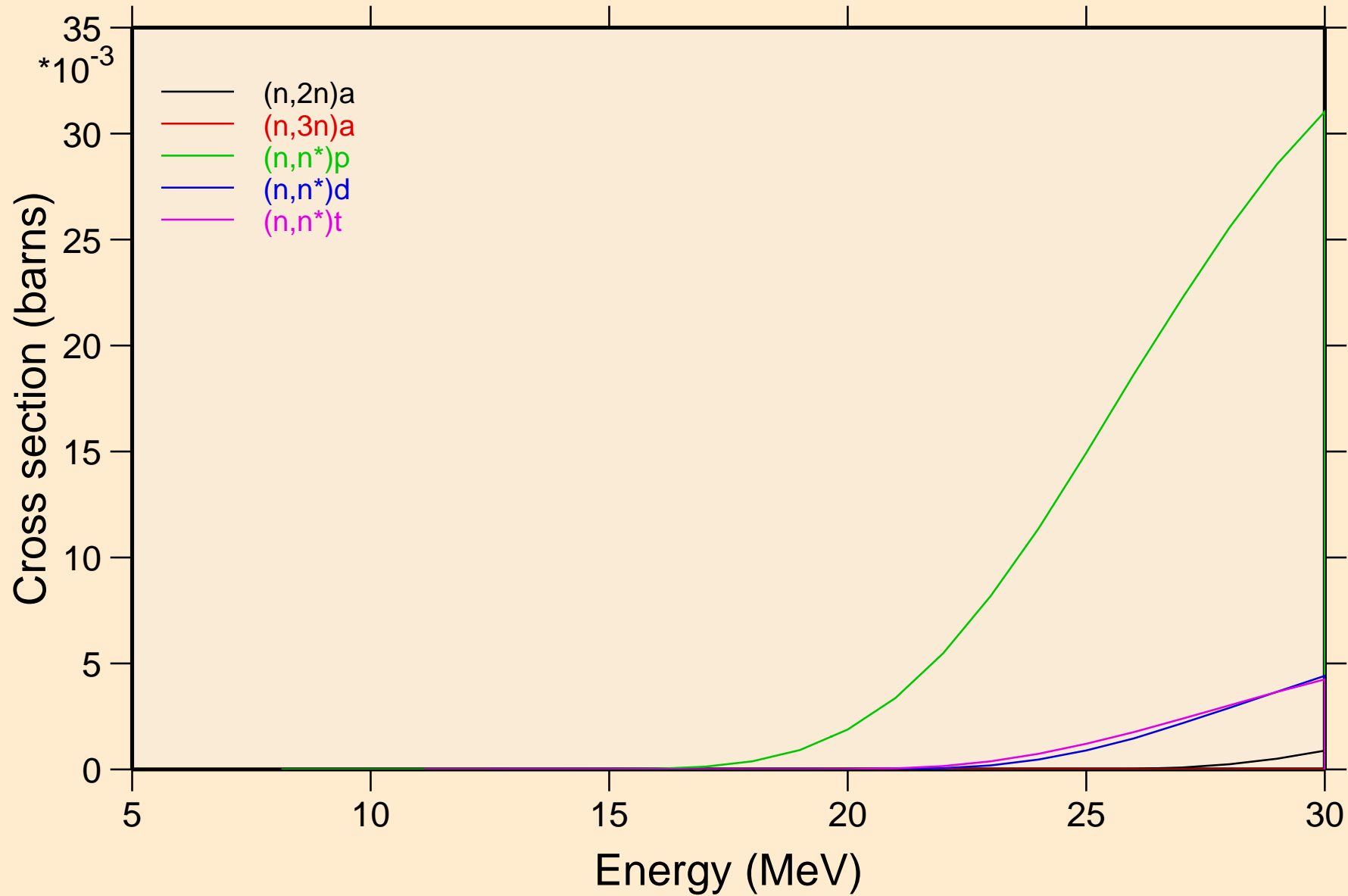
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



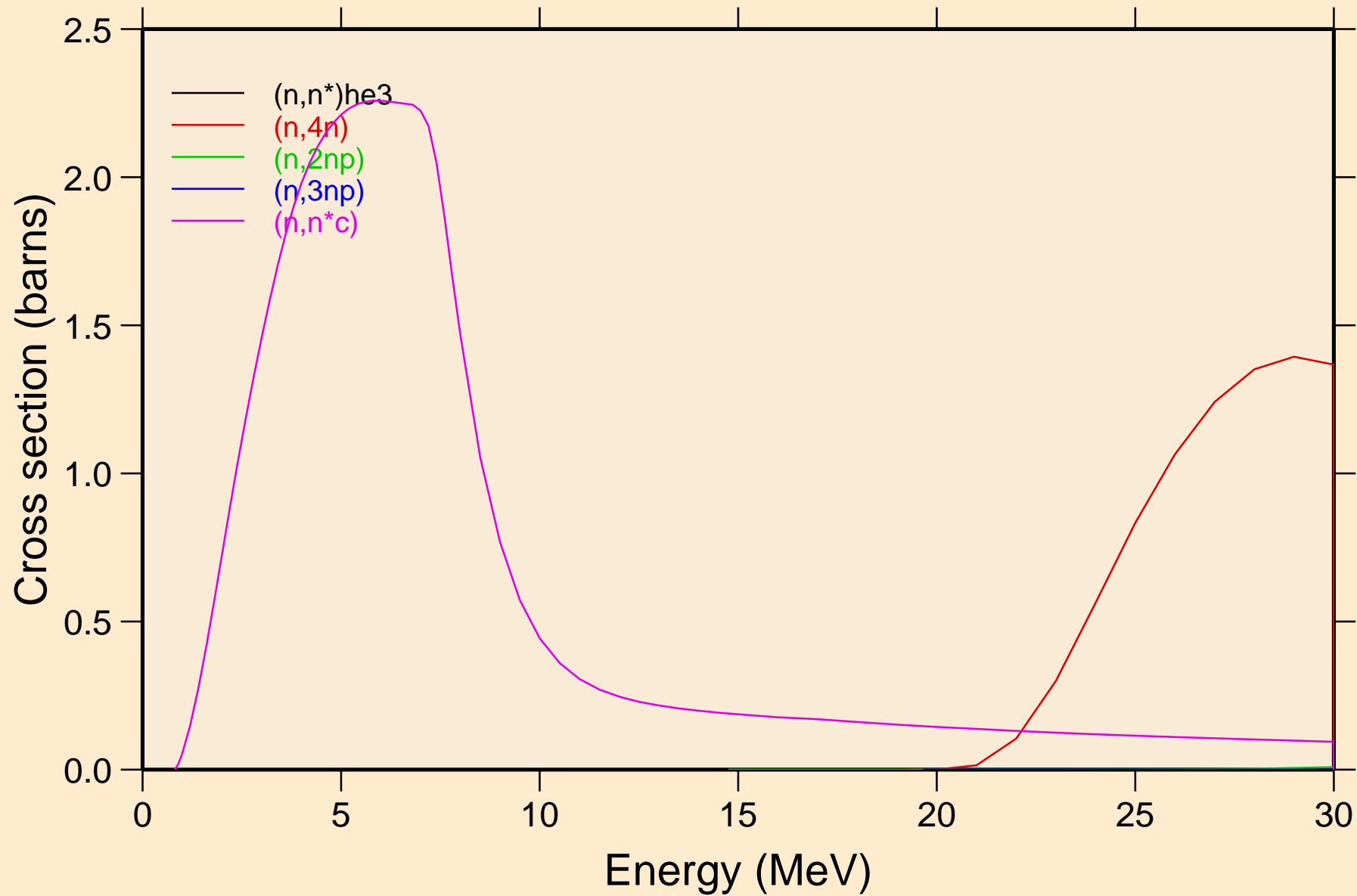
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



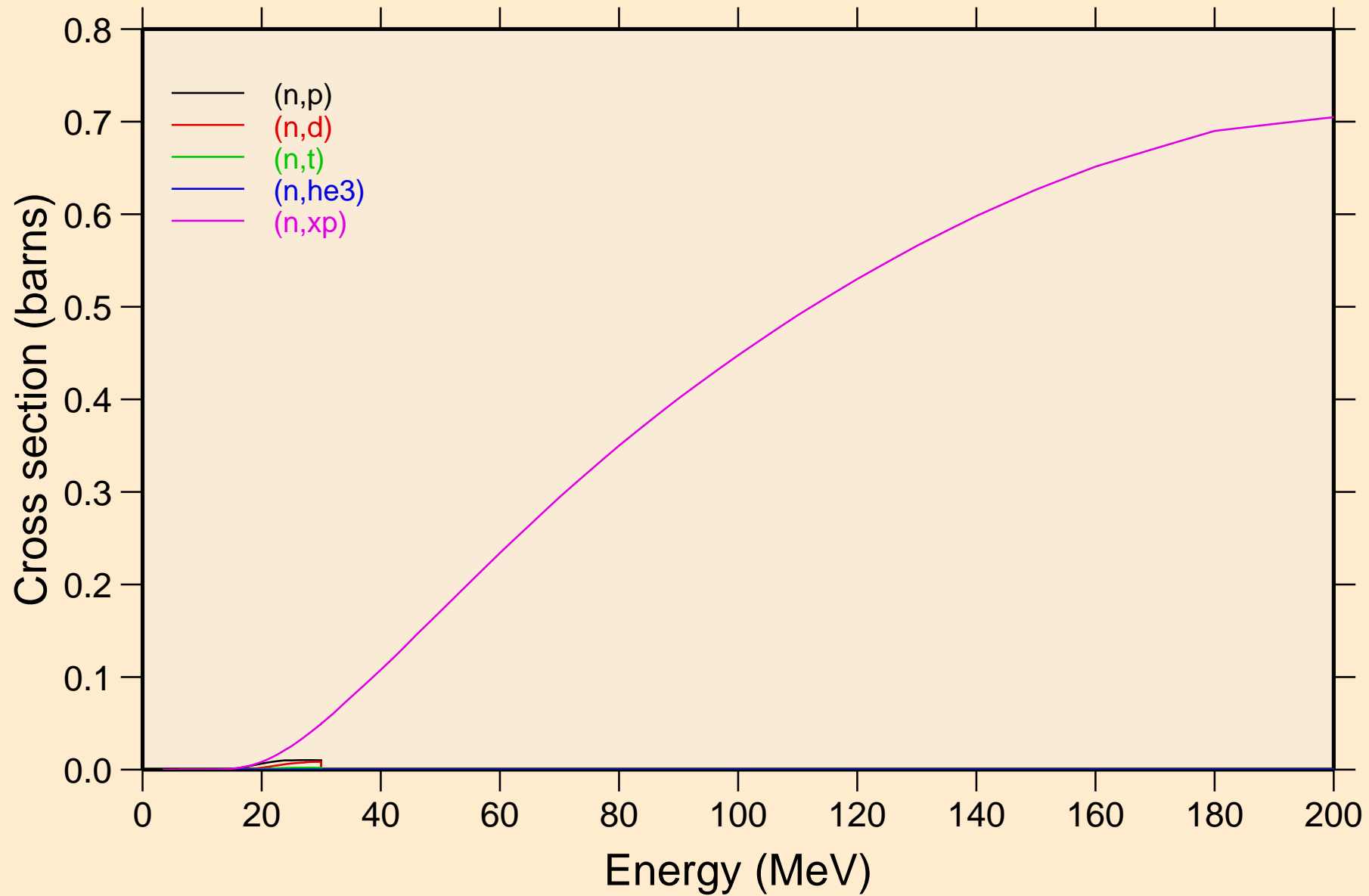
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



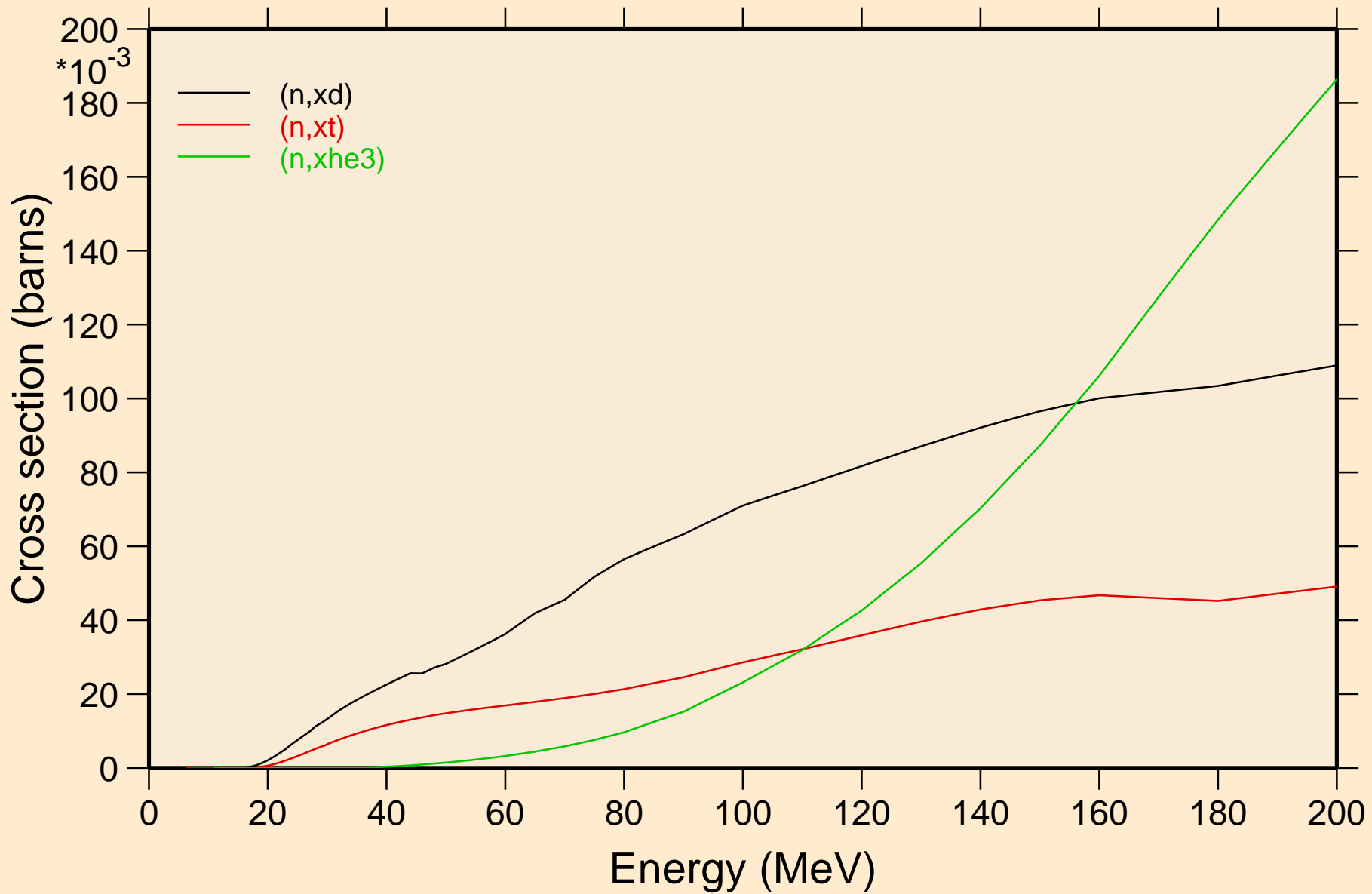
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



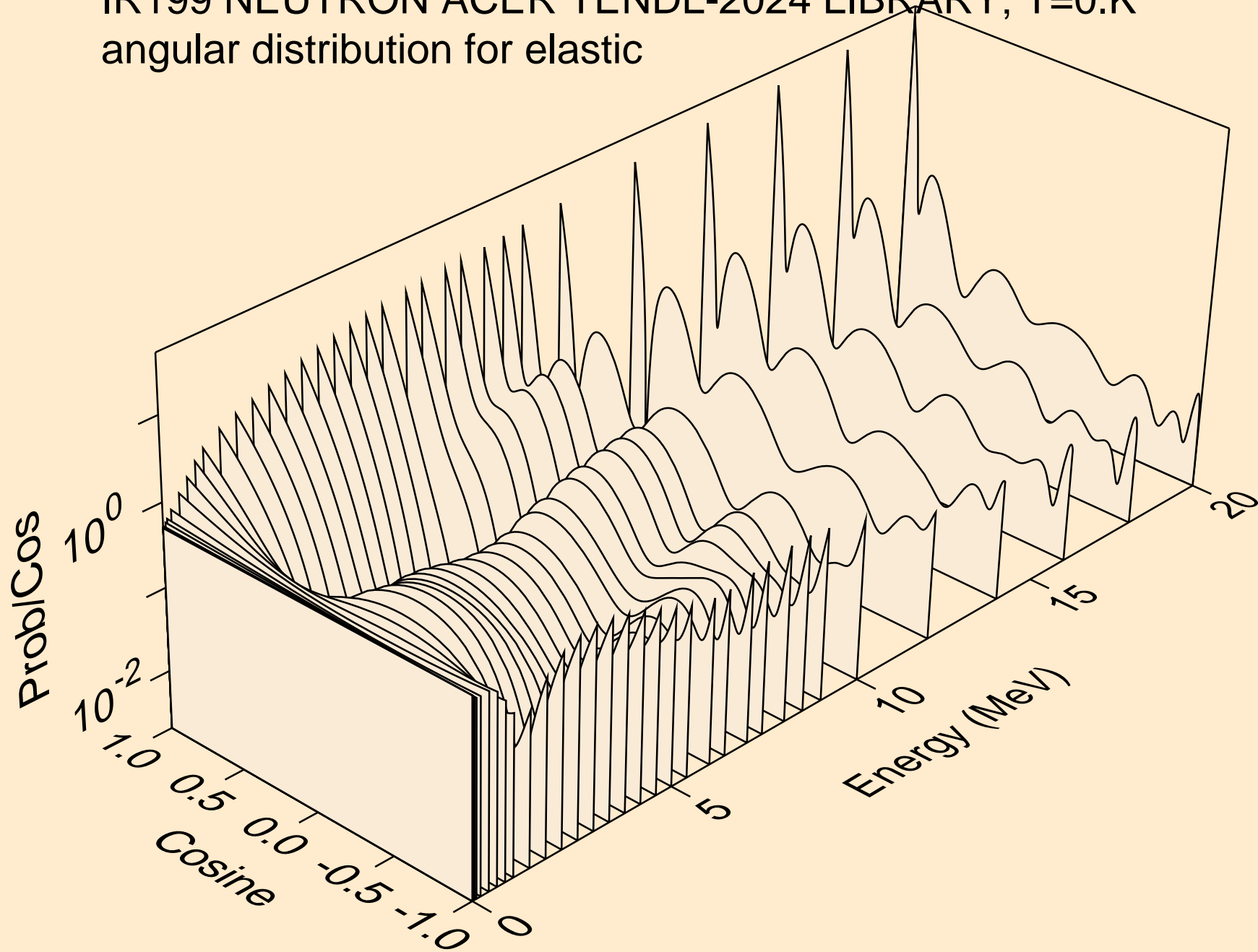


# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

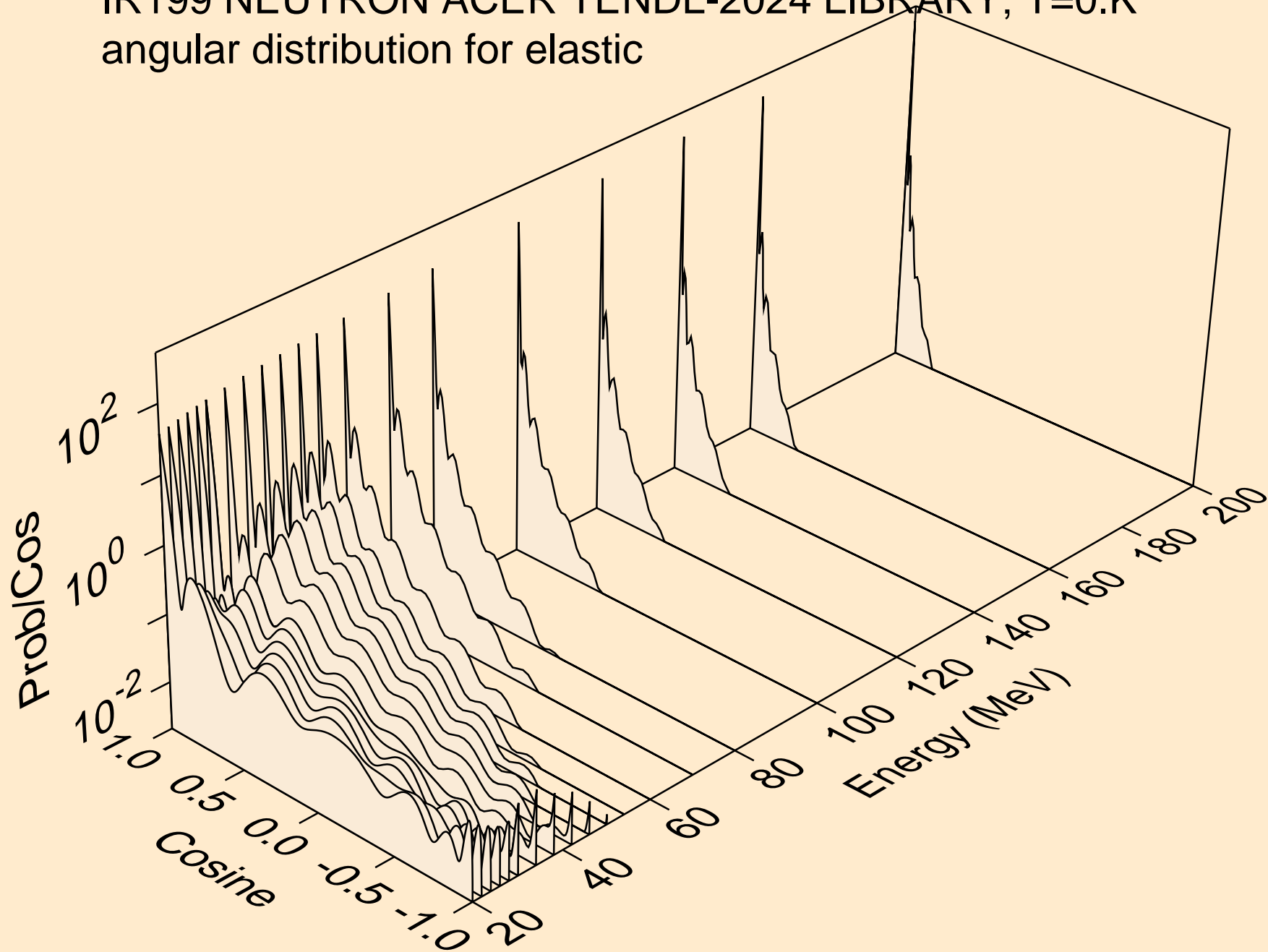
## Threshold reactions



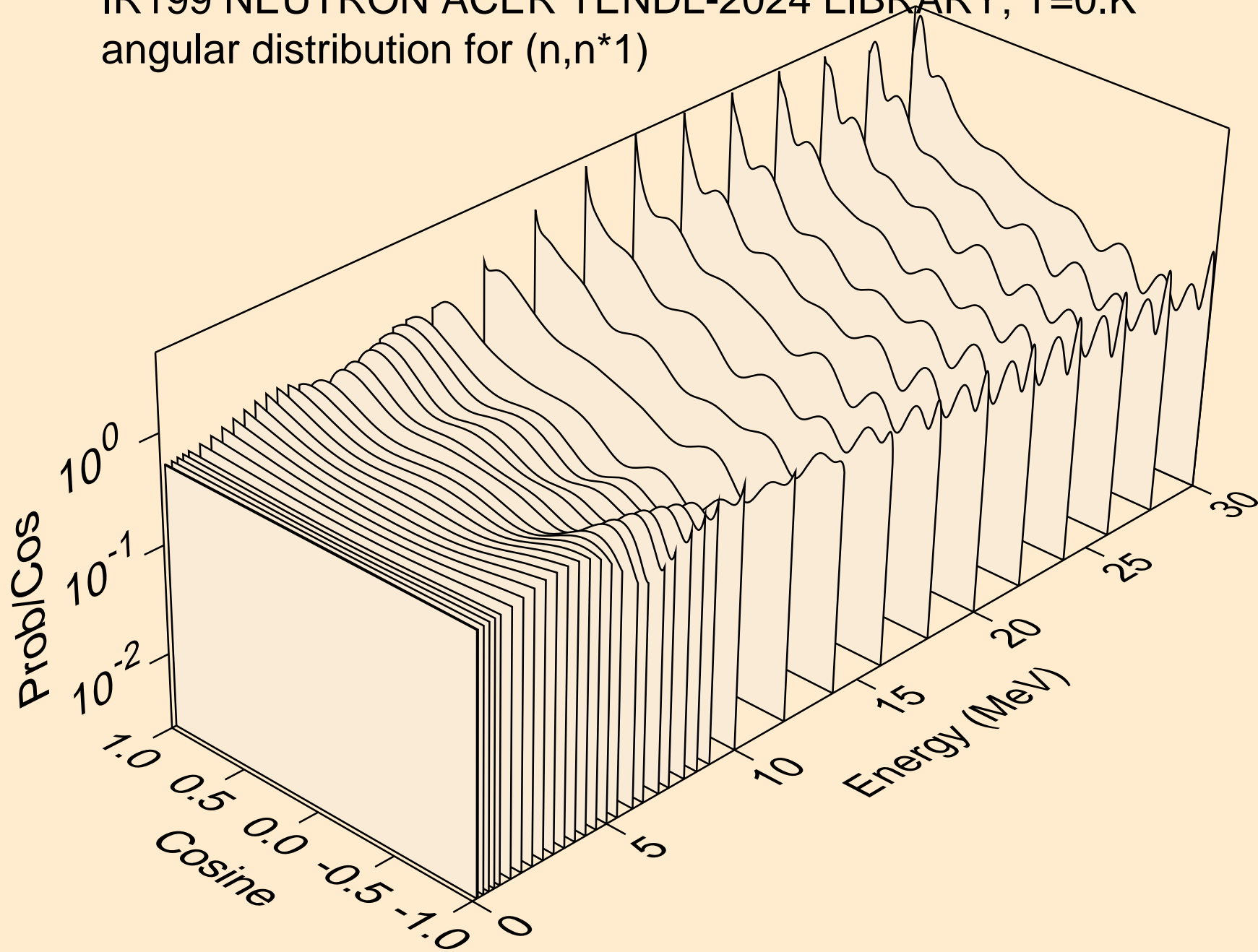
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



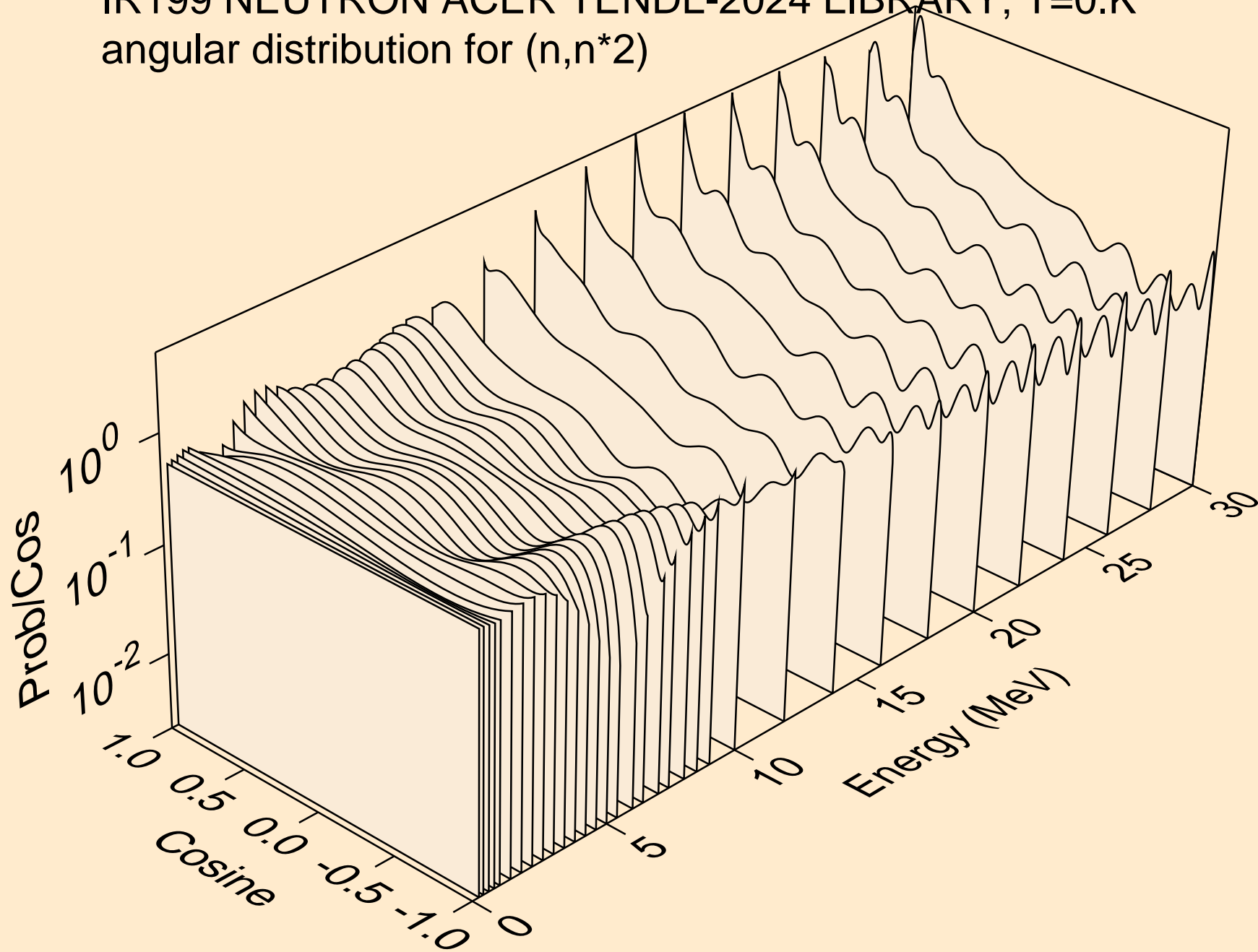
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



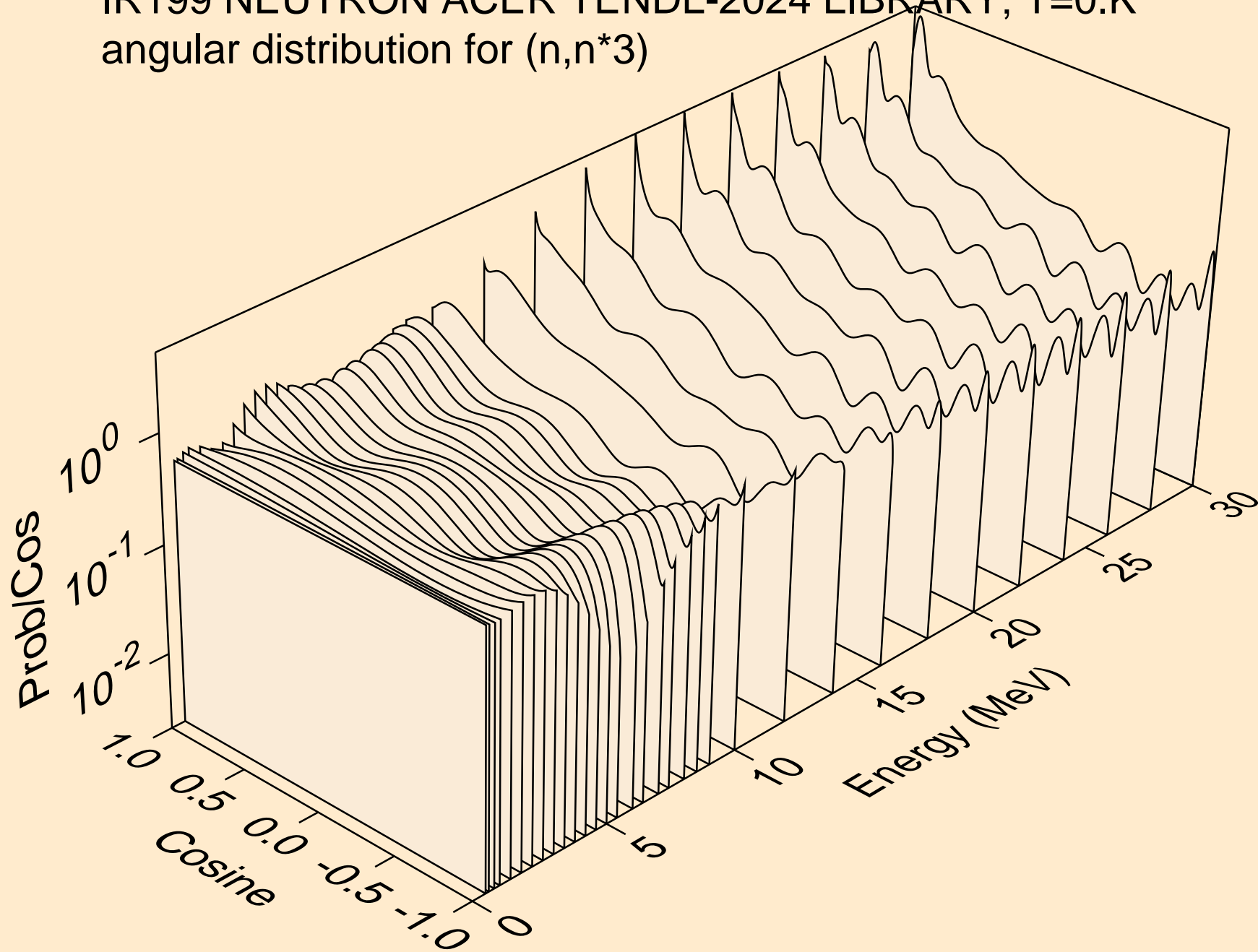
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



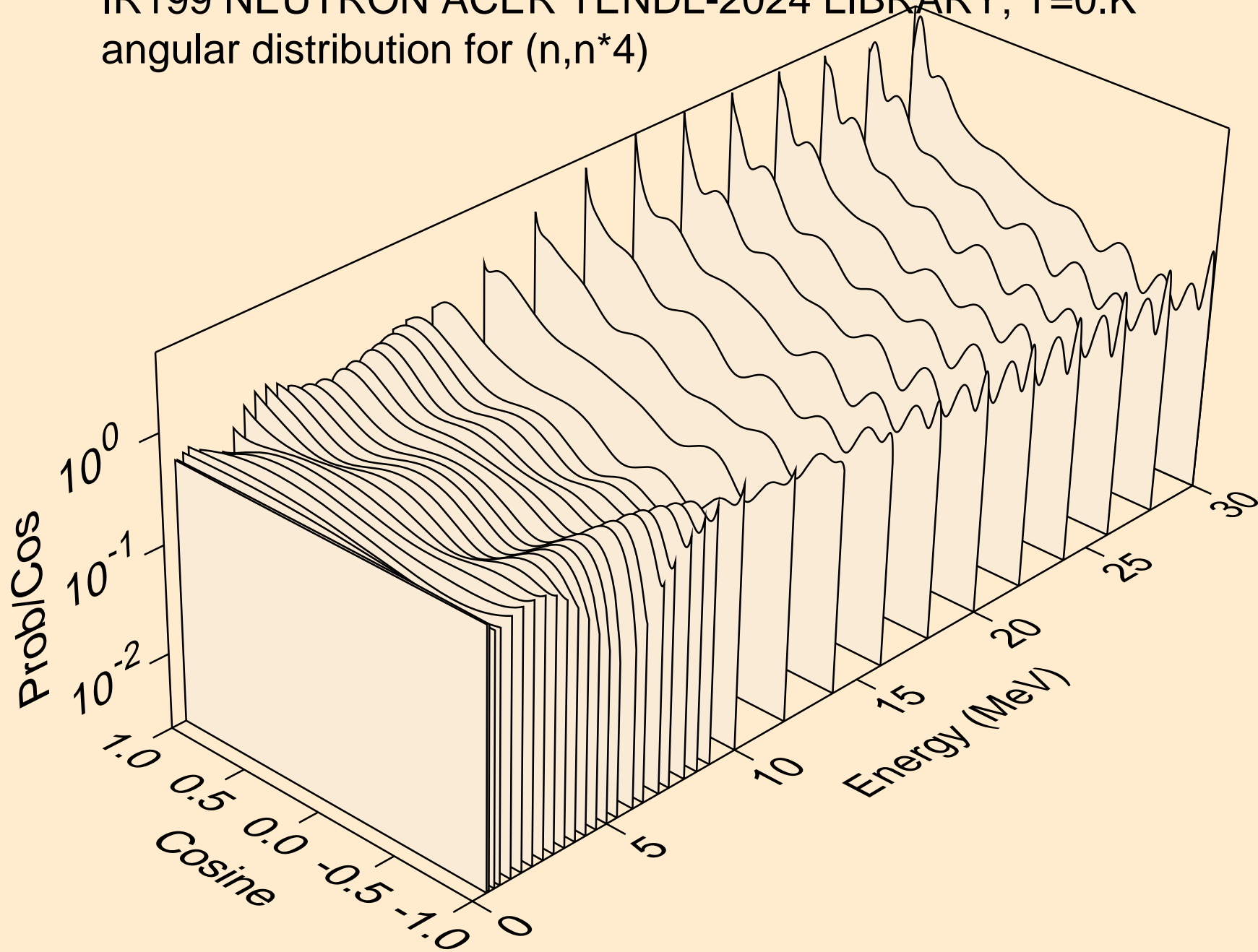
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



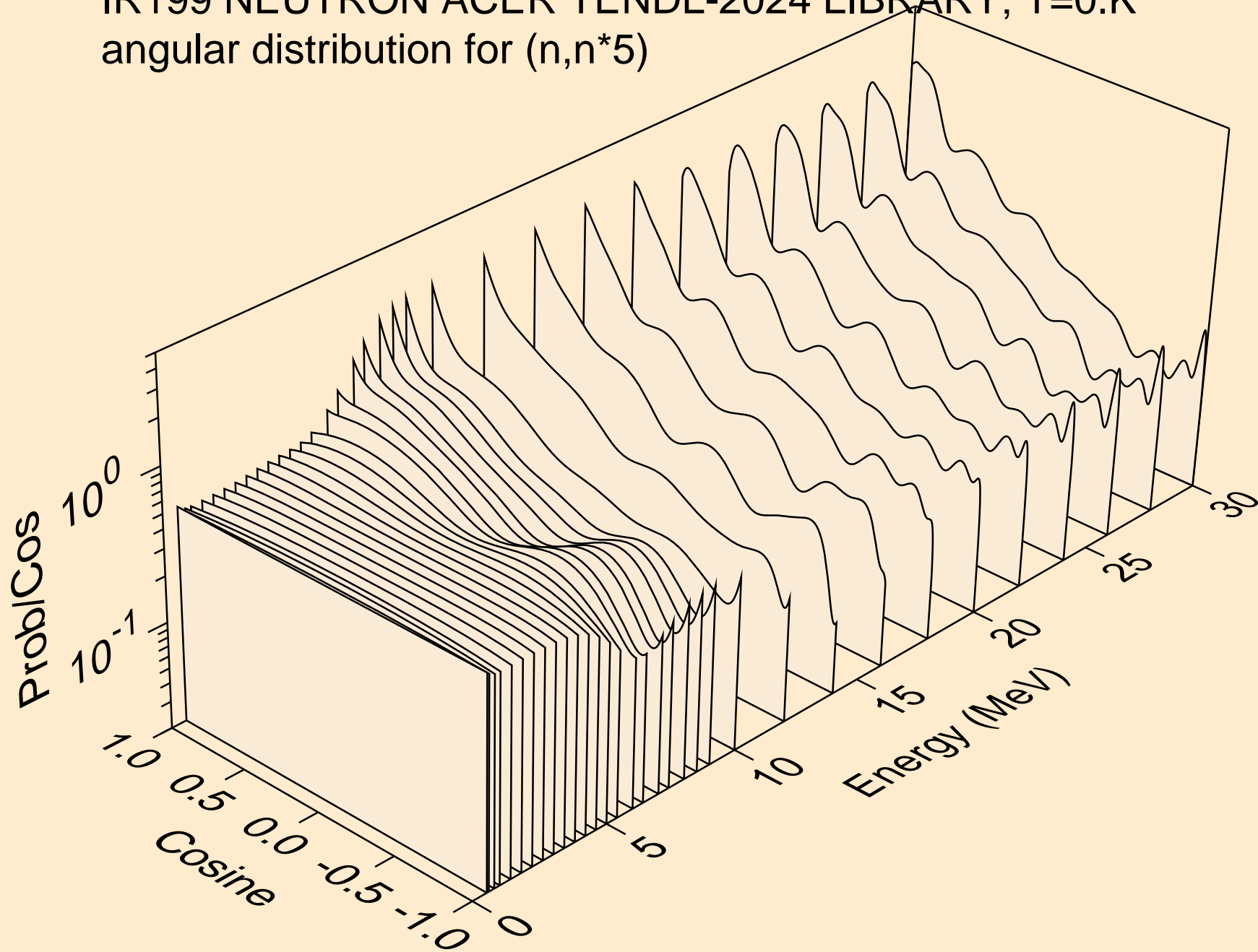
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

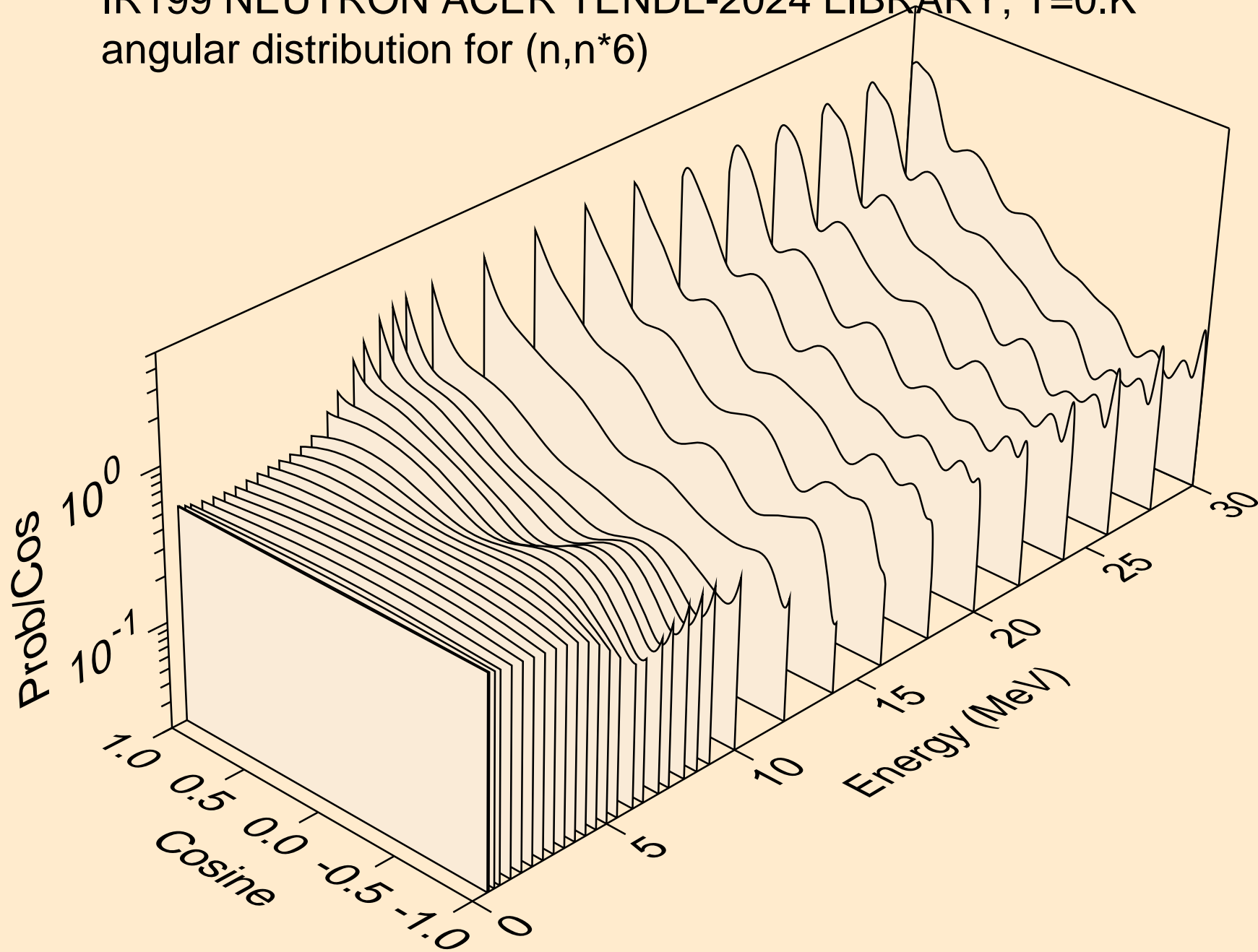


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)

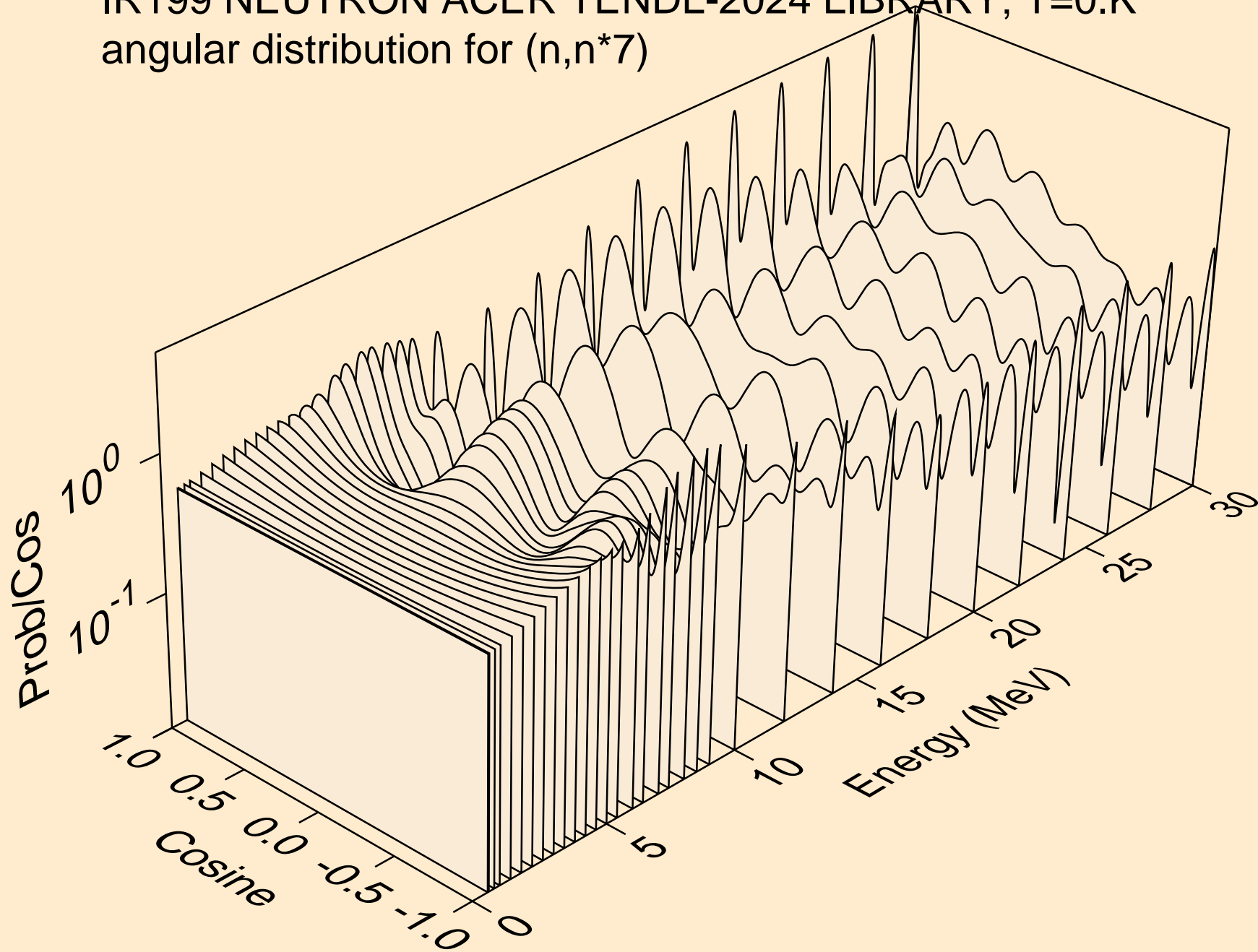




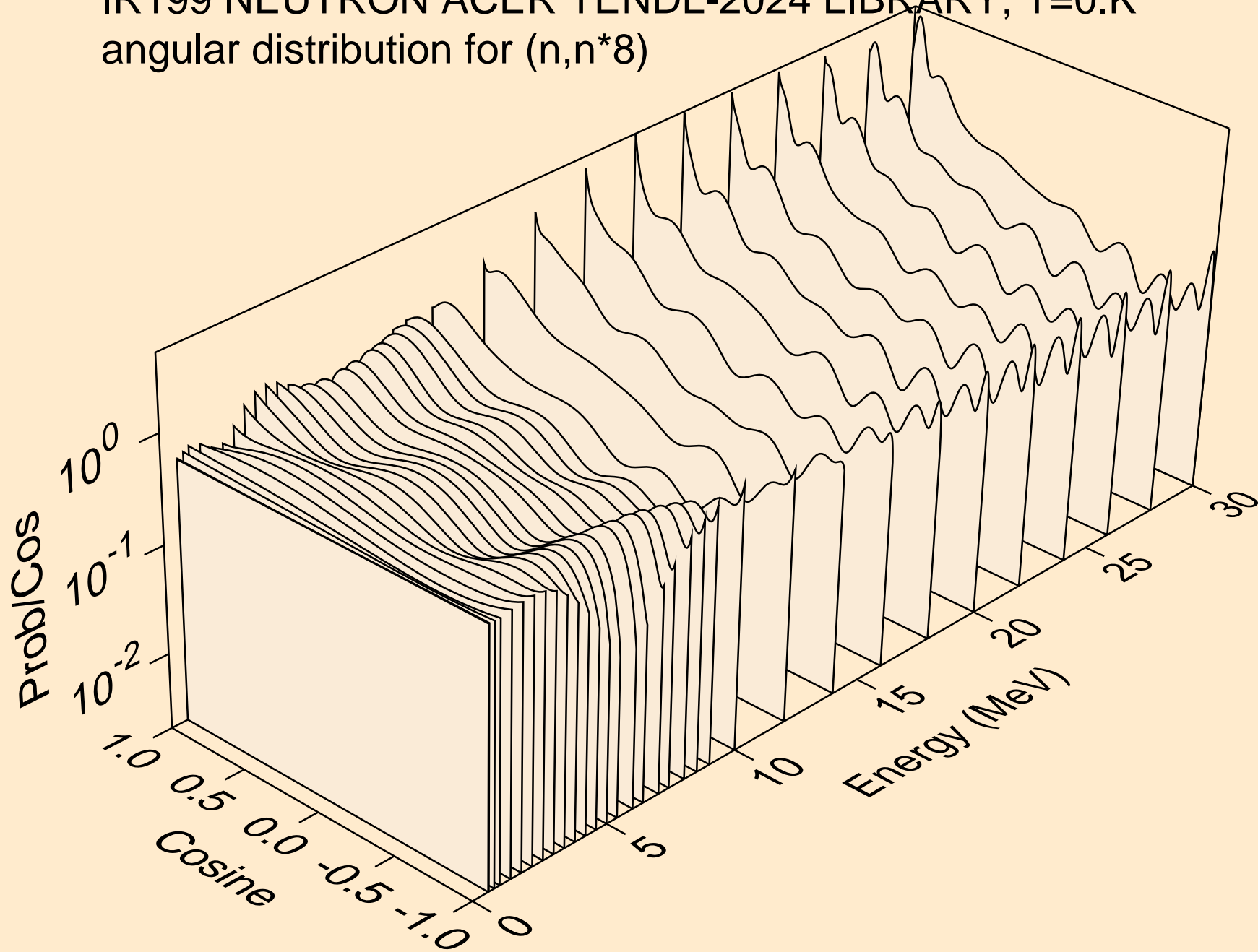
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



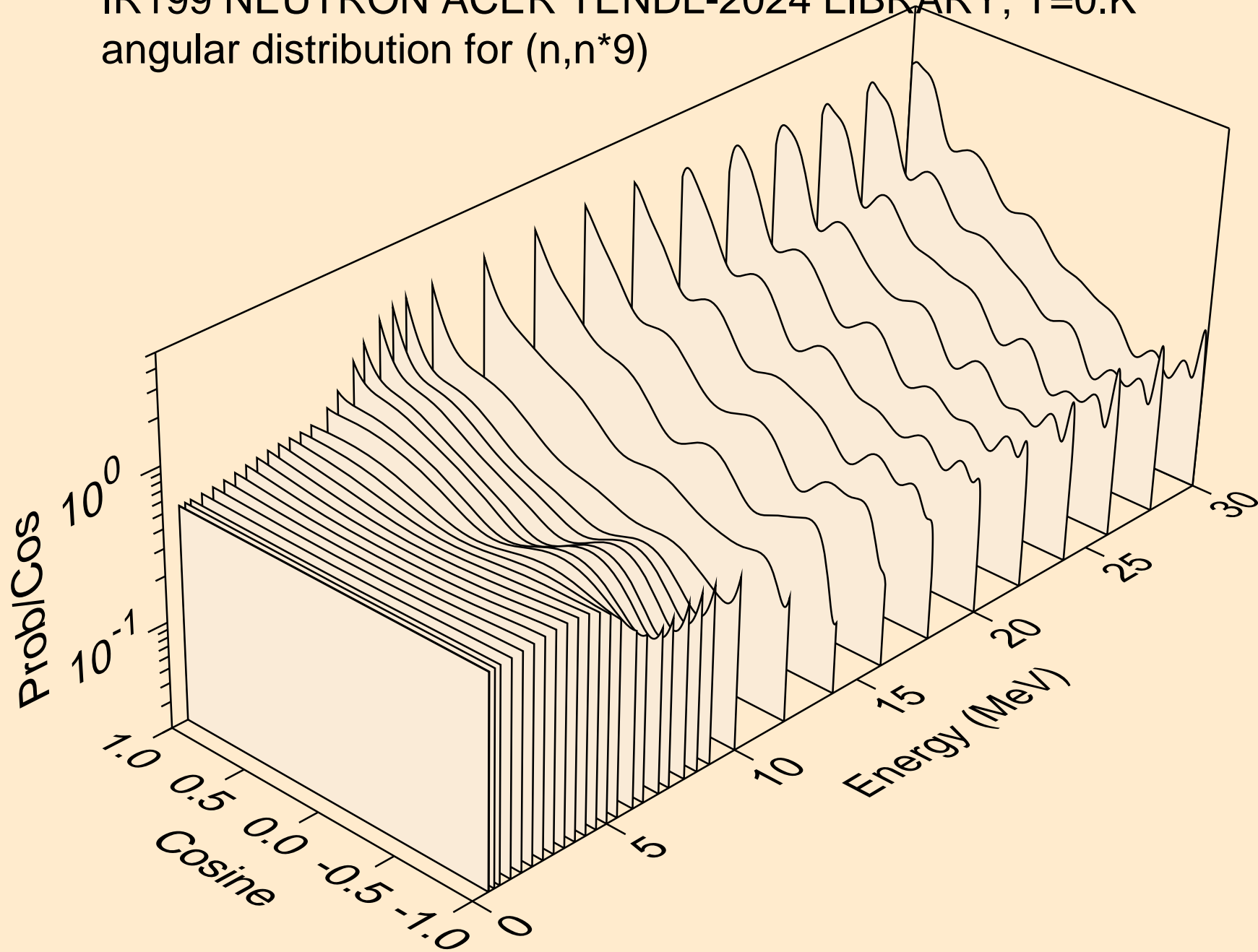
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



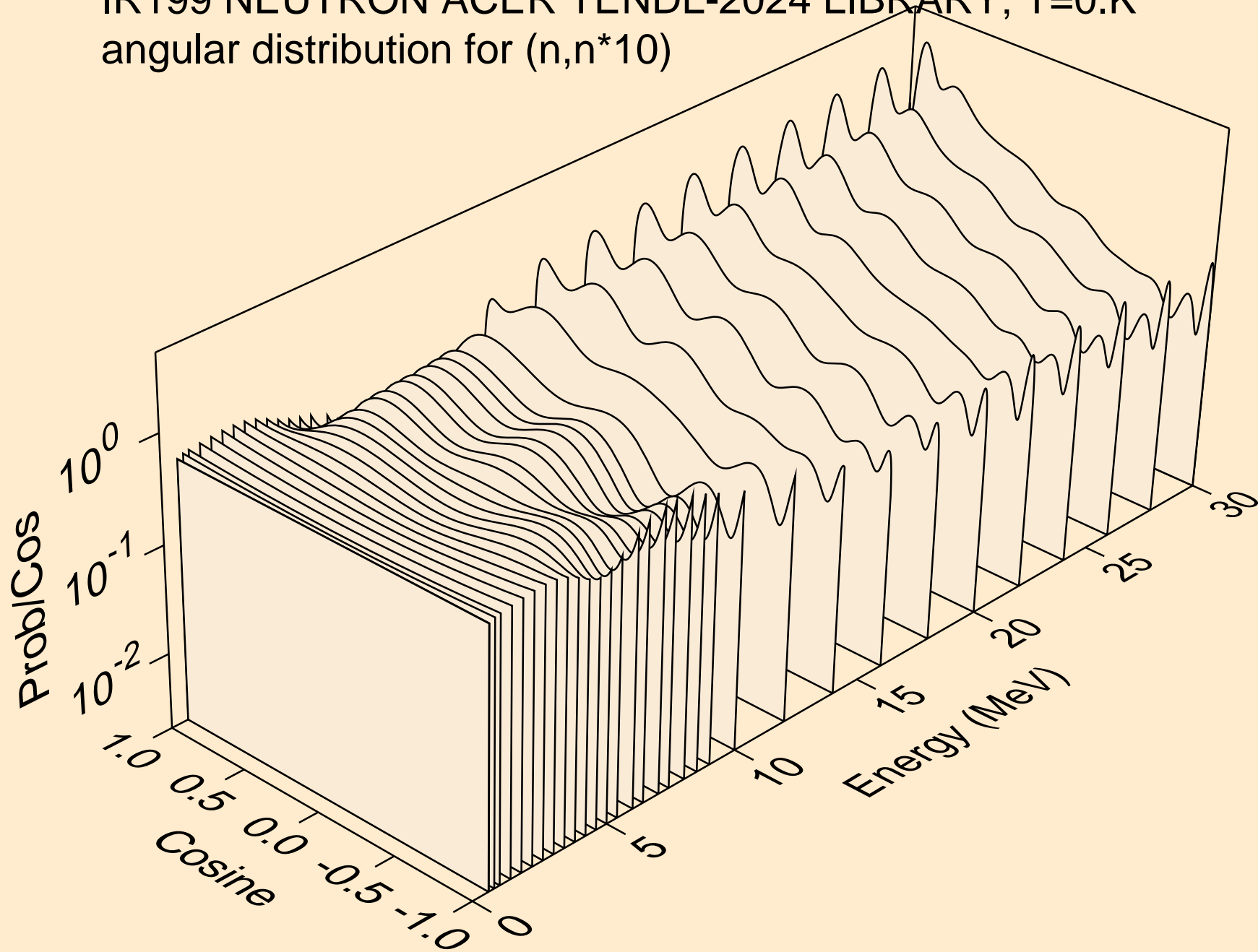
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angular distribution for (n,n\*8)



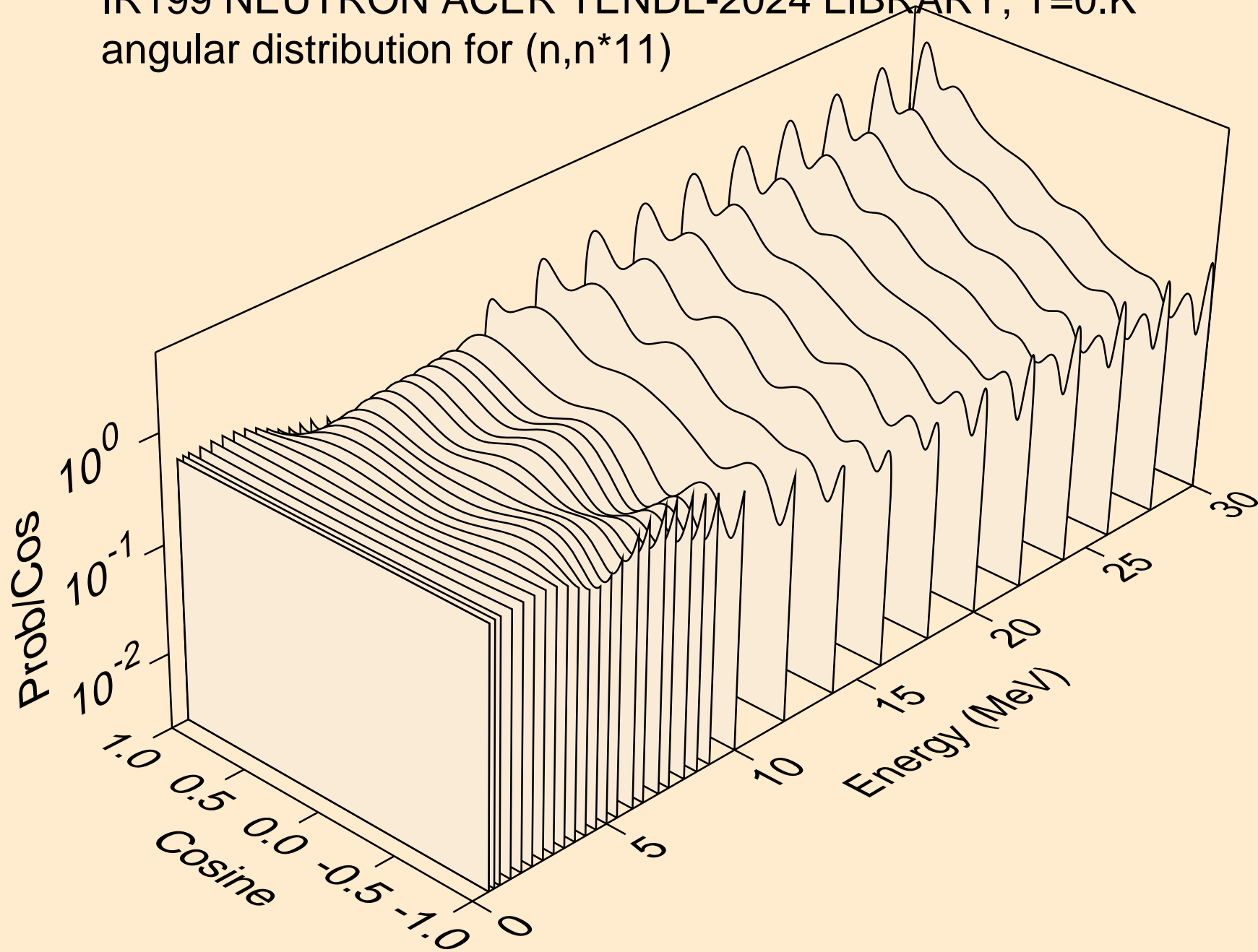
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angular distribution for (n,n\*9)



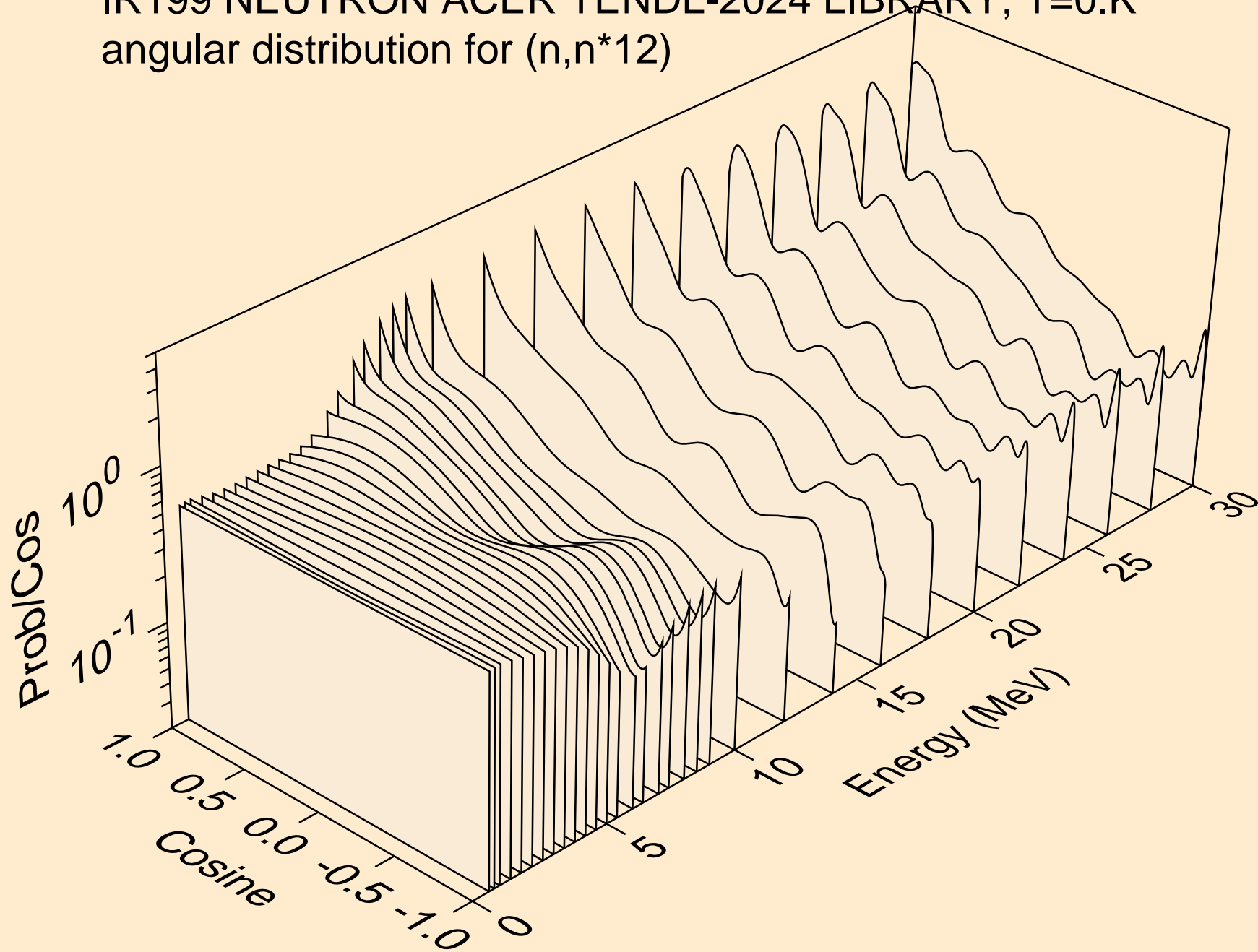
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angular distribution for (n,n\*10)



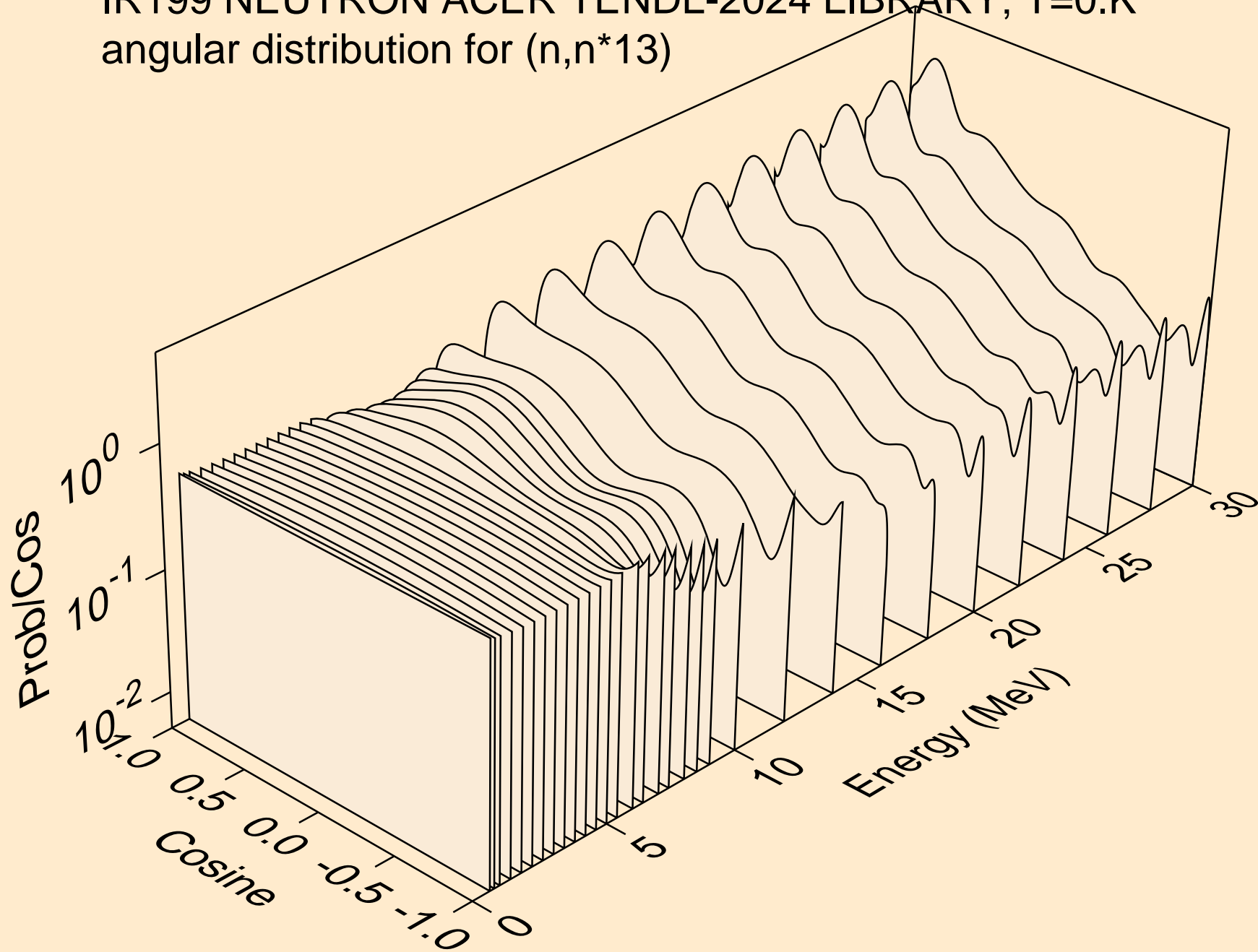
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

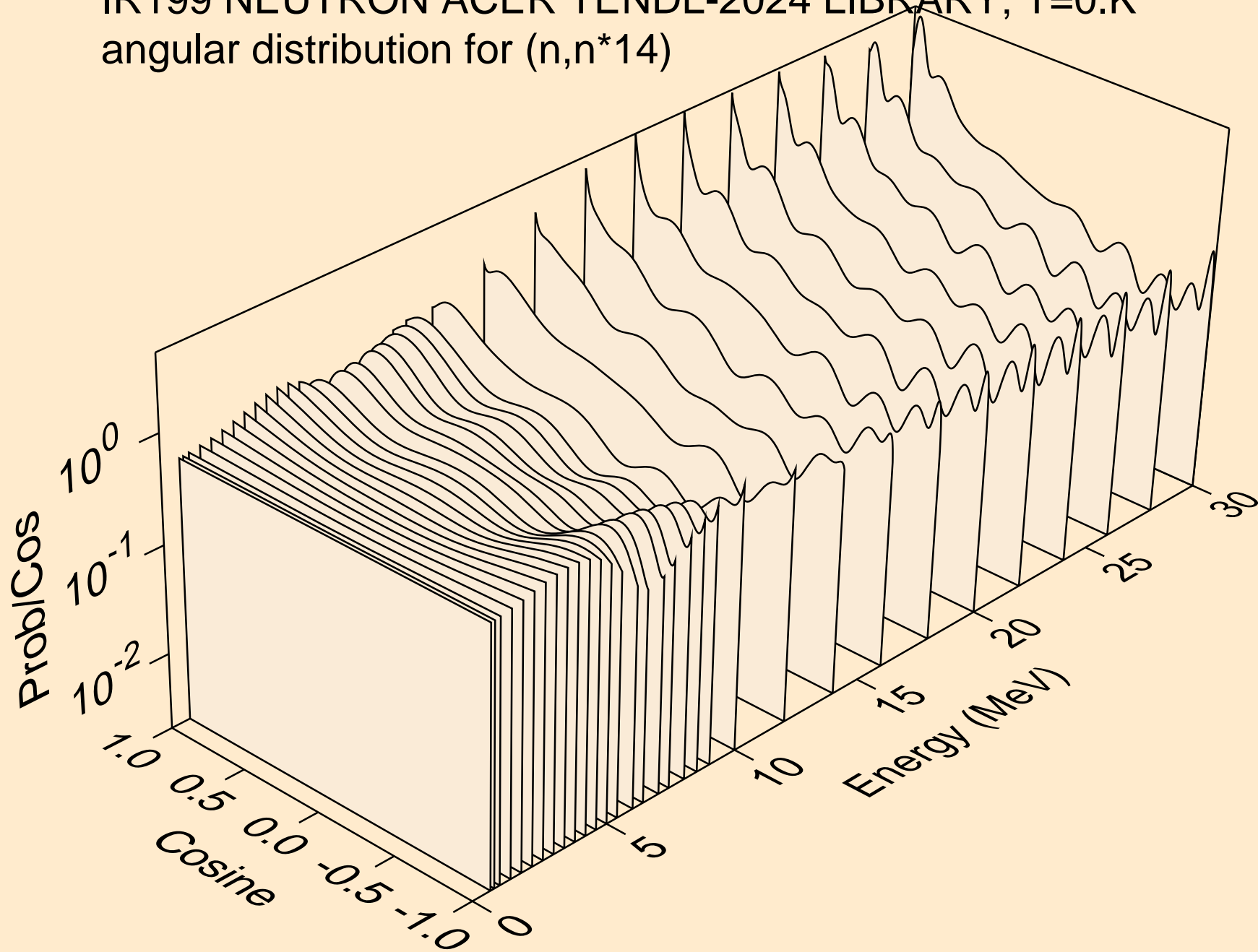


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angular distribution for (n,n\*13)

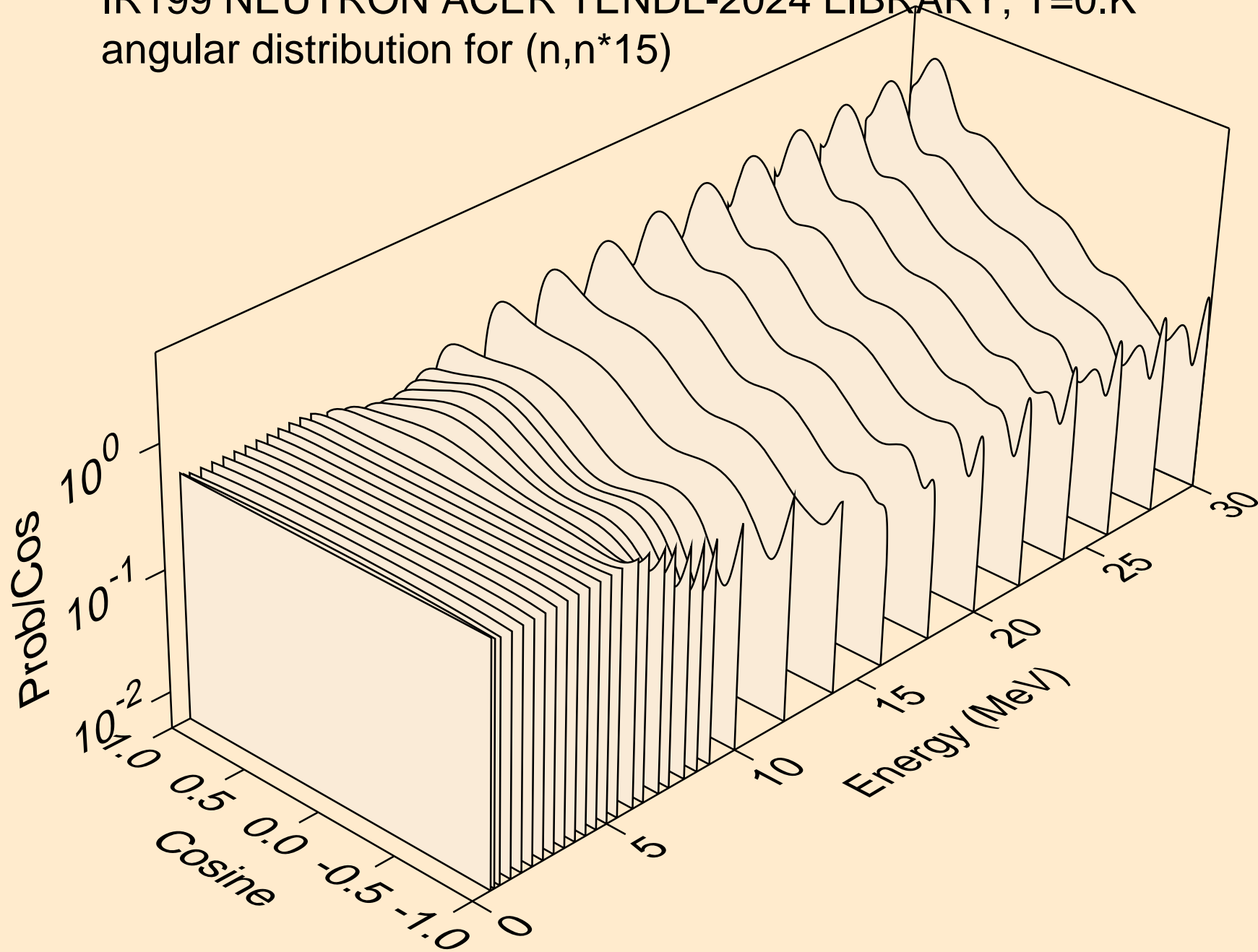




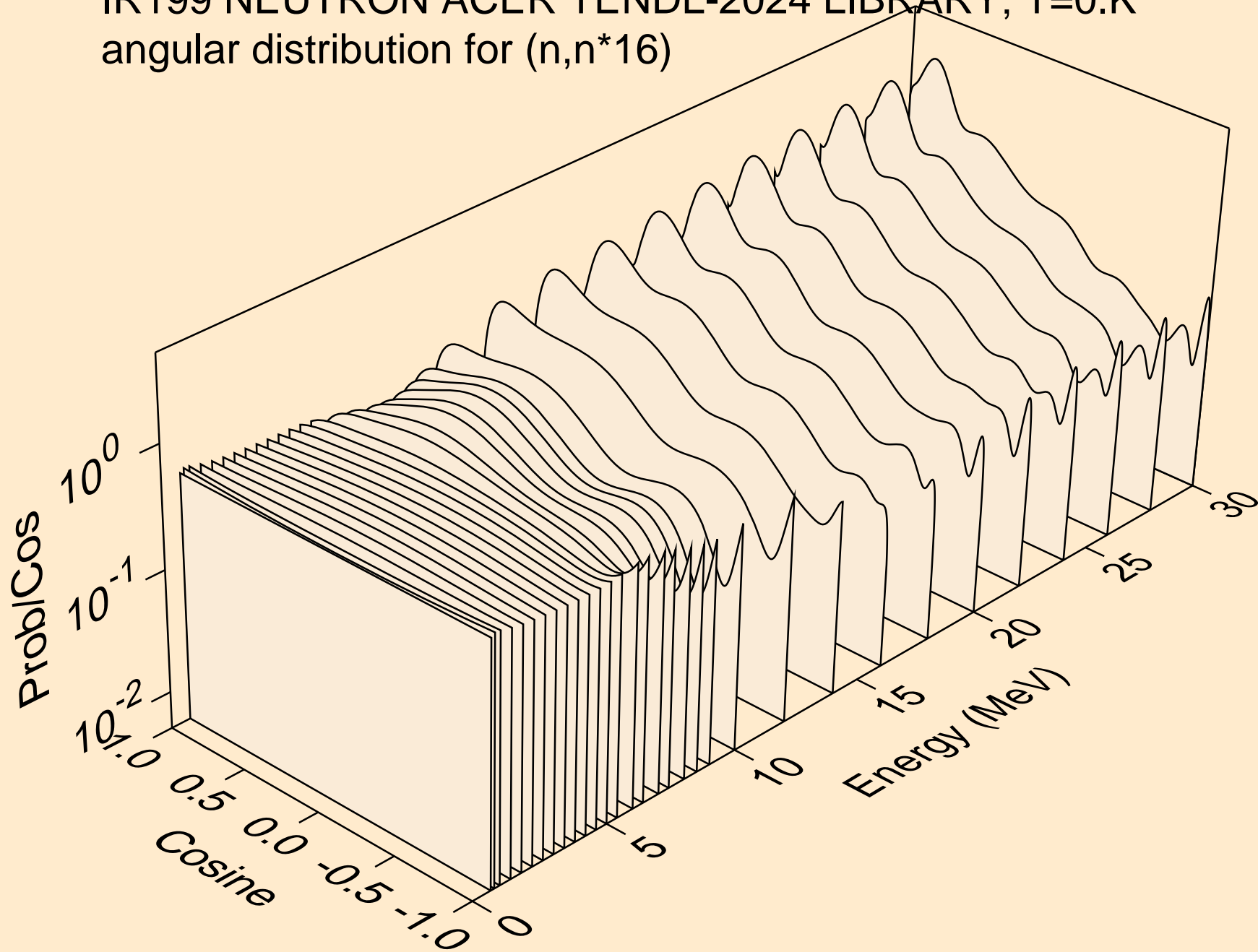
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angular distribution for (n,n\*14)



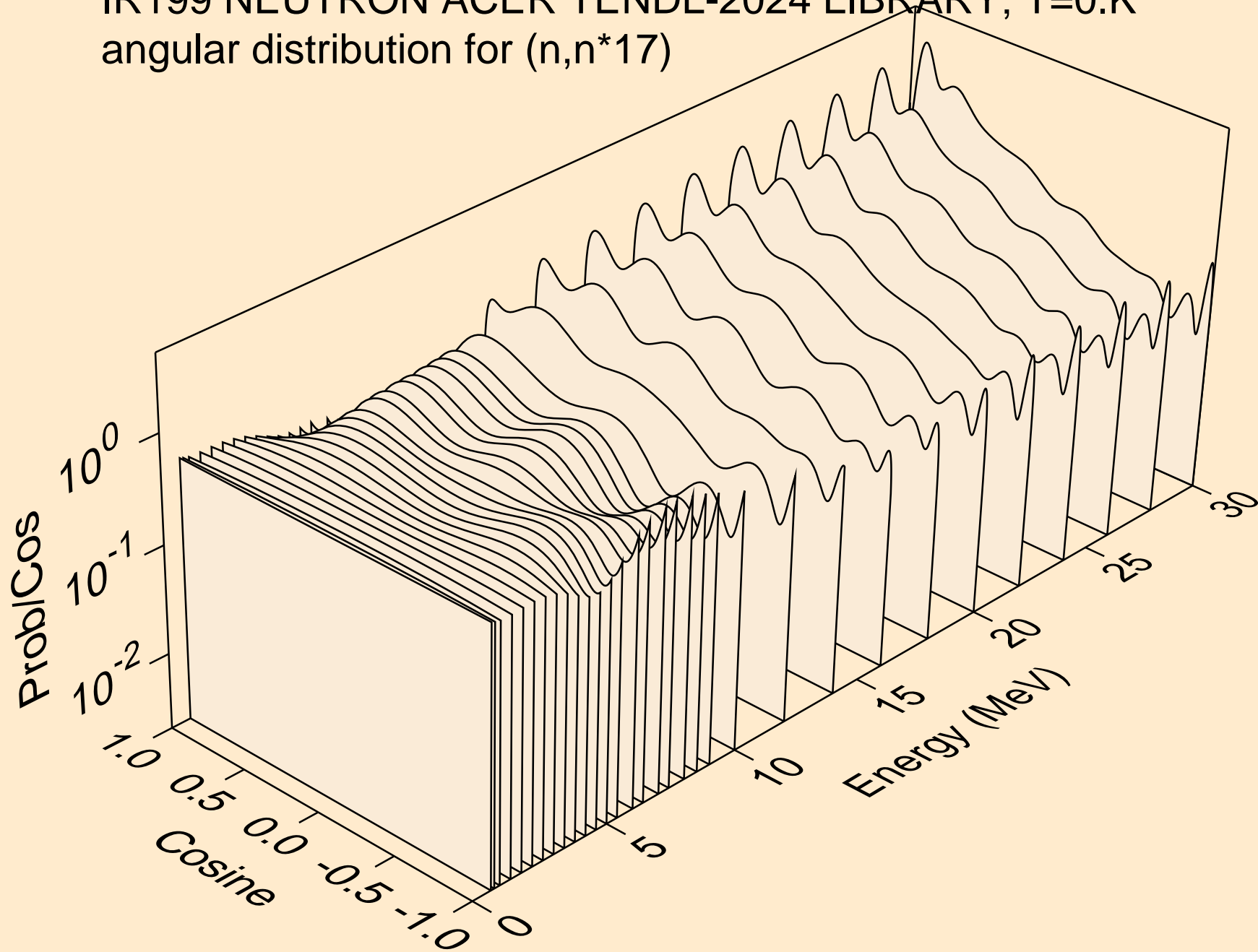
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angular distribution for (n,n\*15)



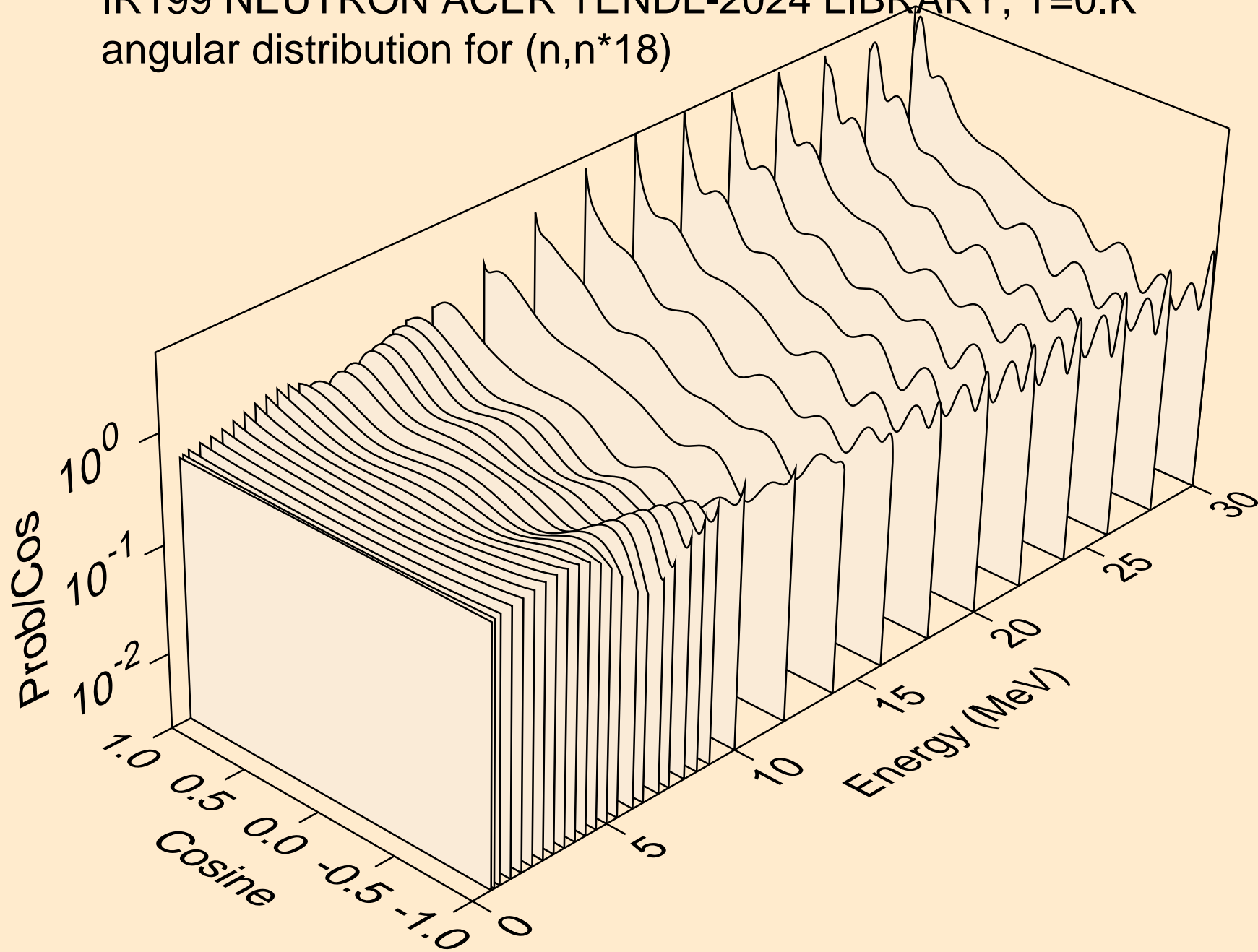
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



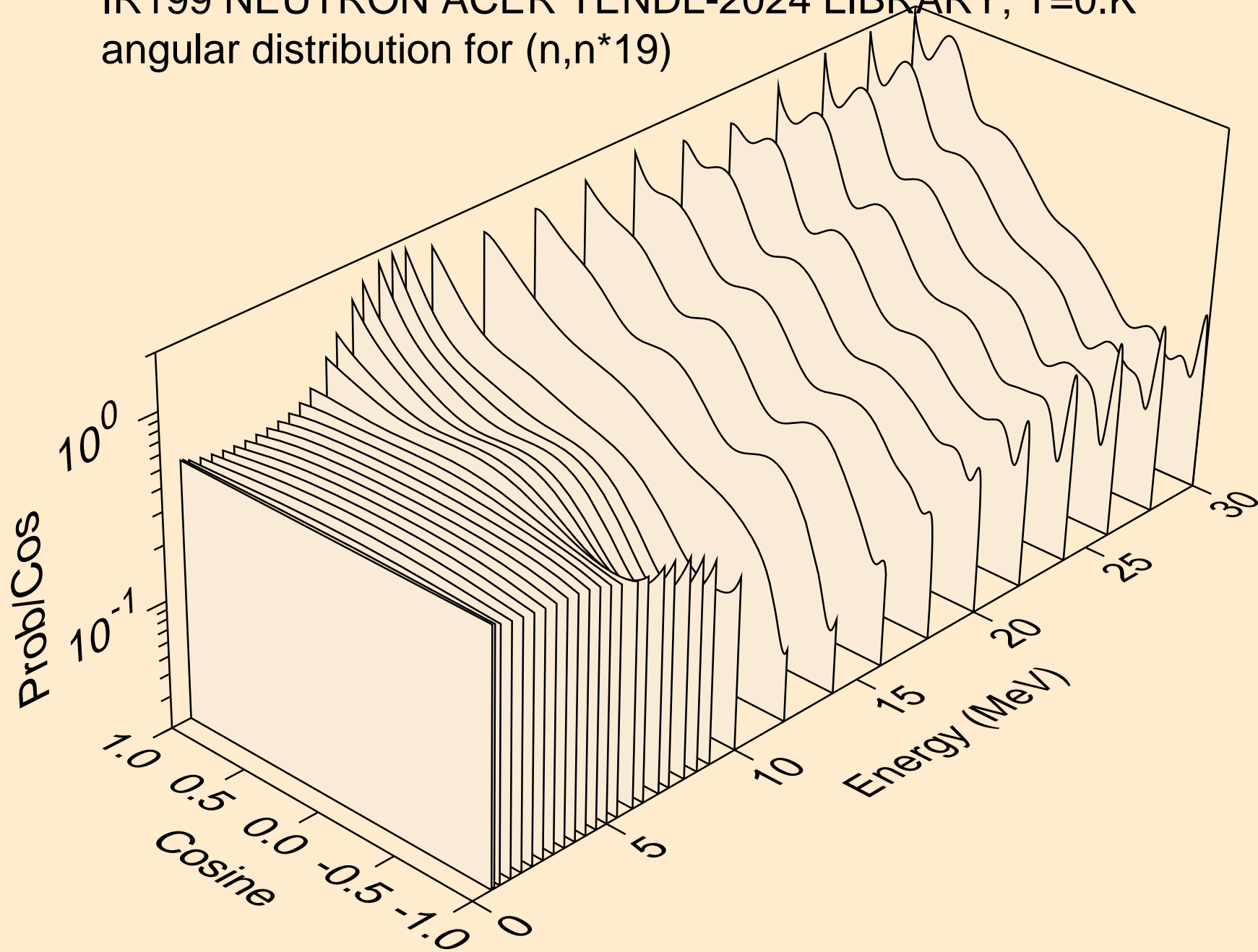
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angular distribution for (n,n\*17)



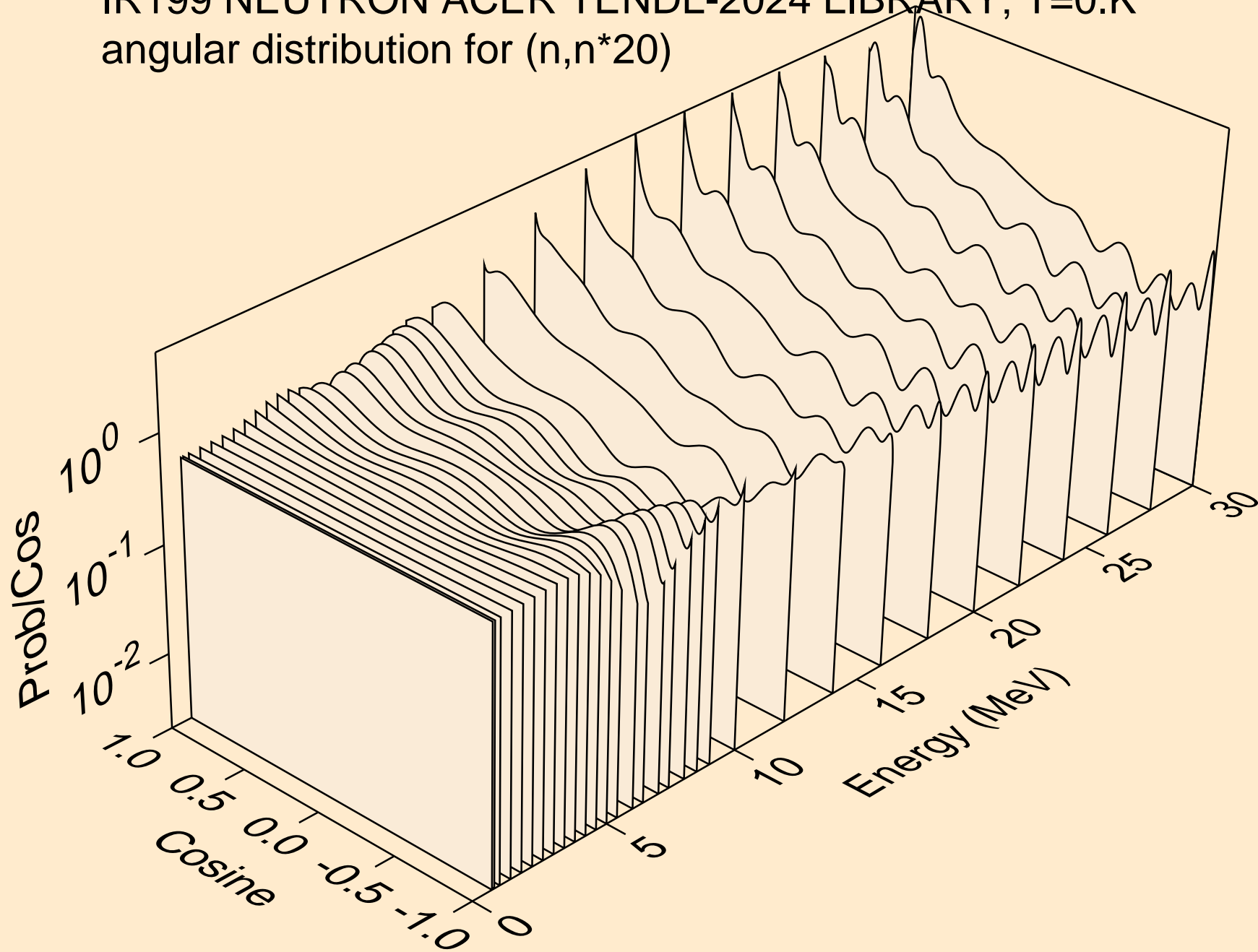
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angular distribution for (n,n\*18)



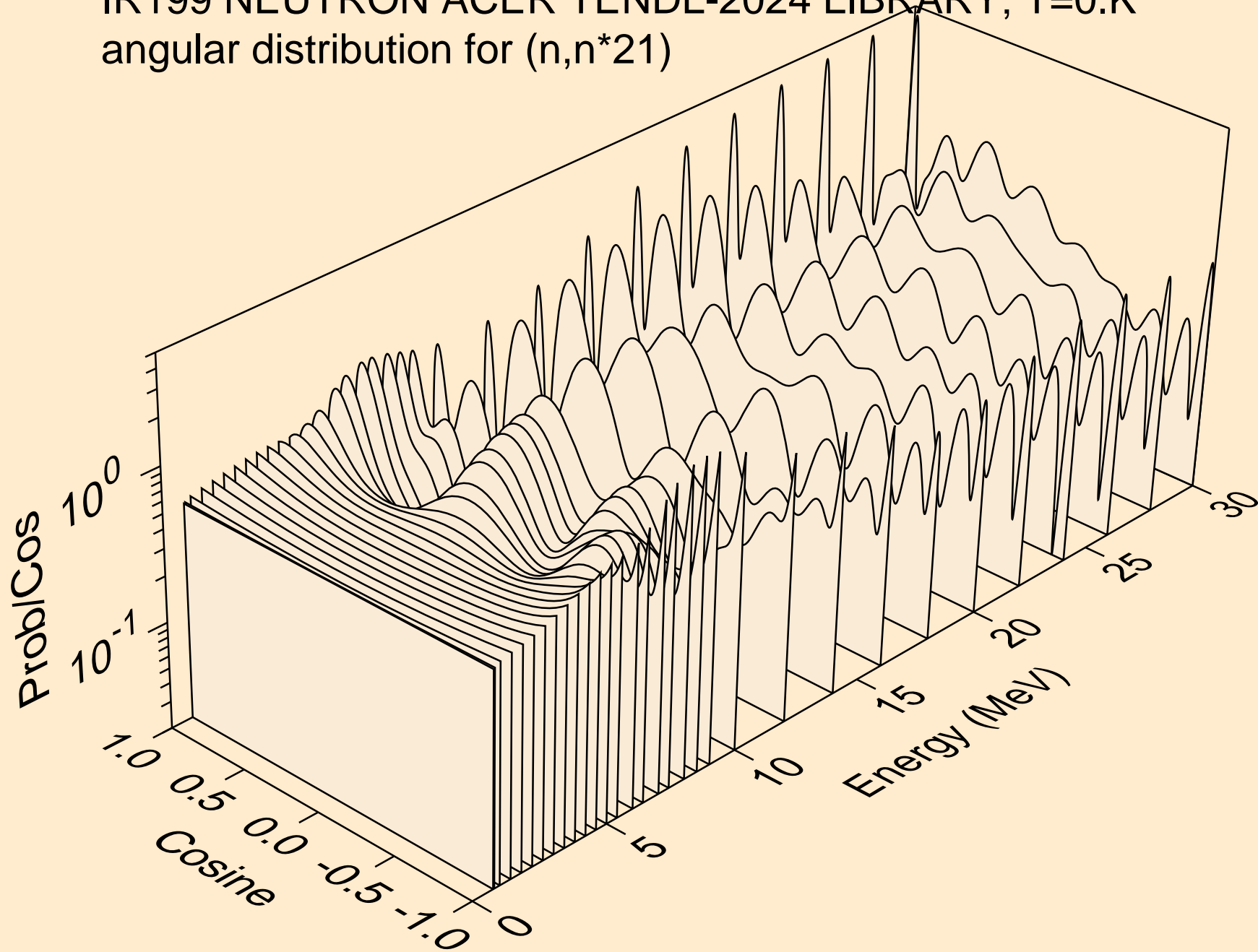
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*19)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*20)

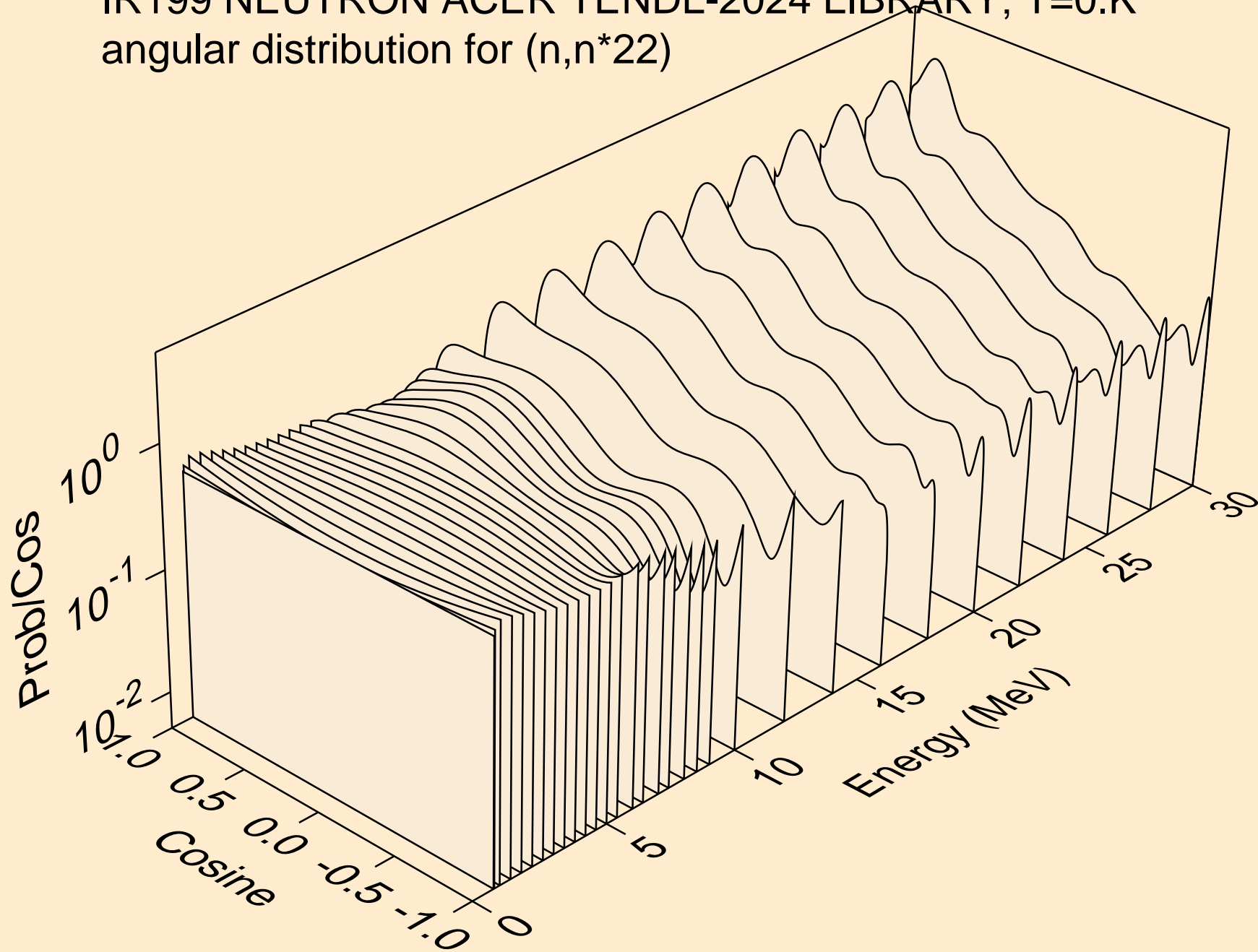


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*21)

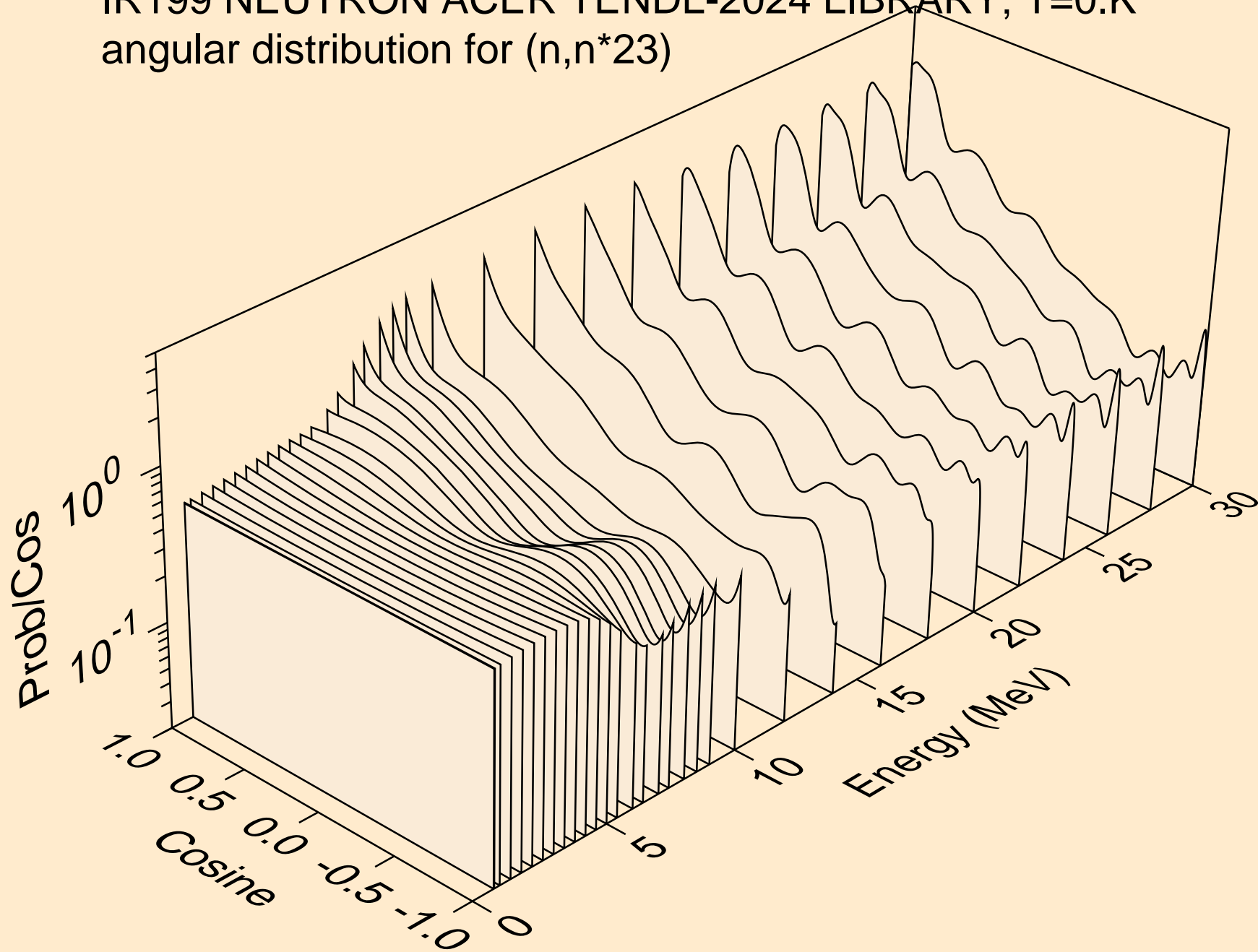




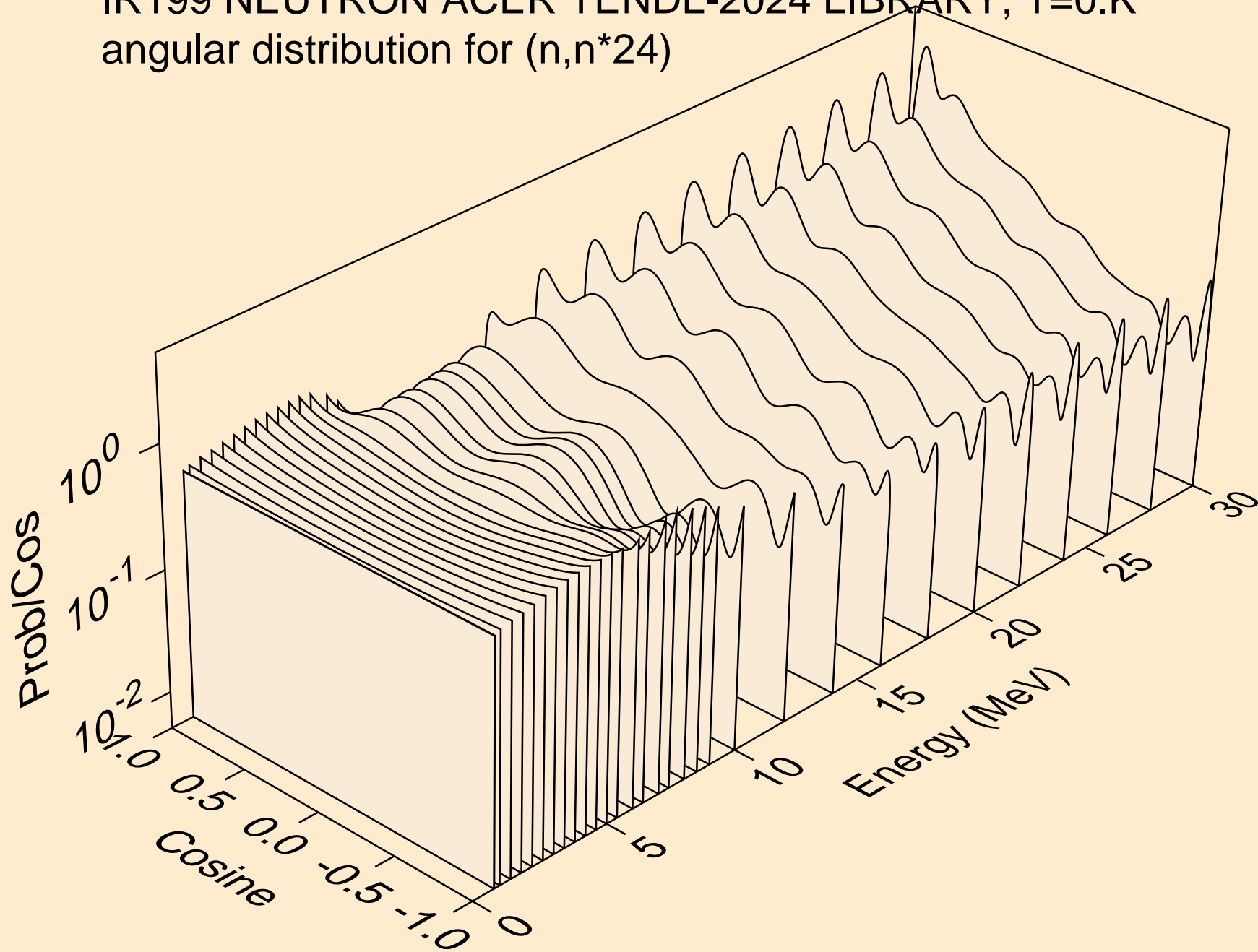
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angular distribution for (n,n\*22)



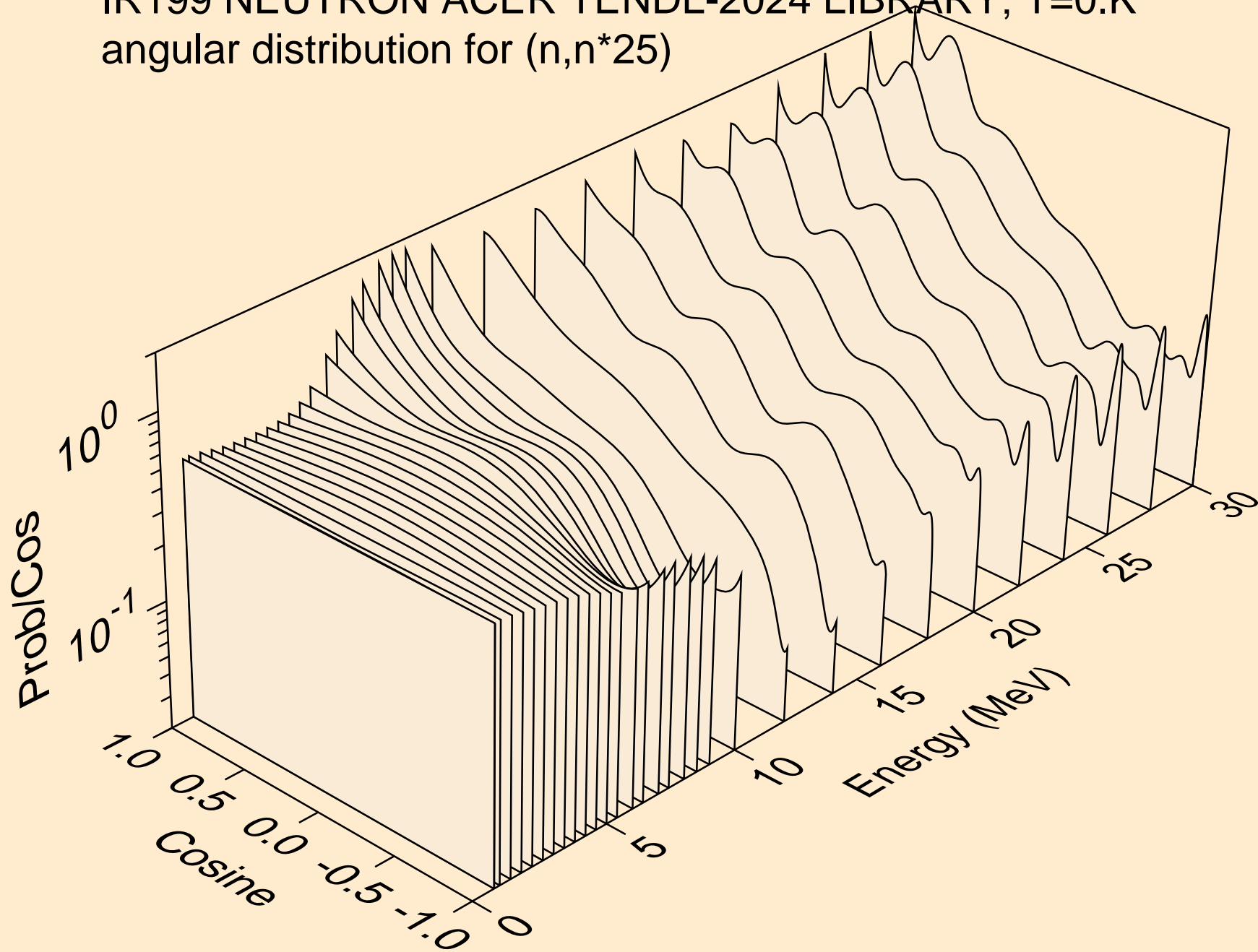
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angular distribution for (n,n\*23)



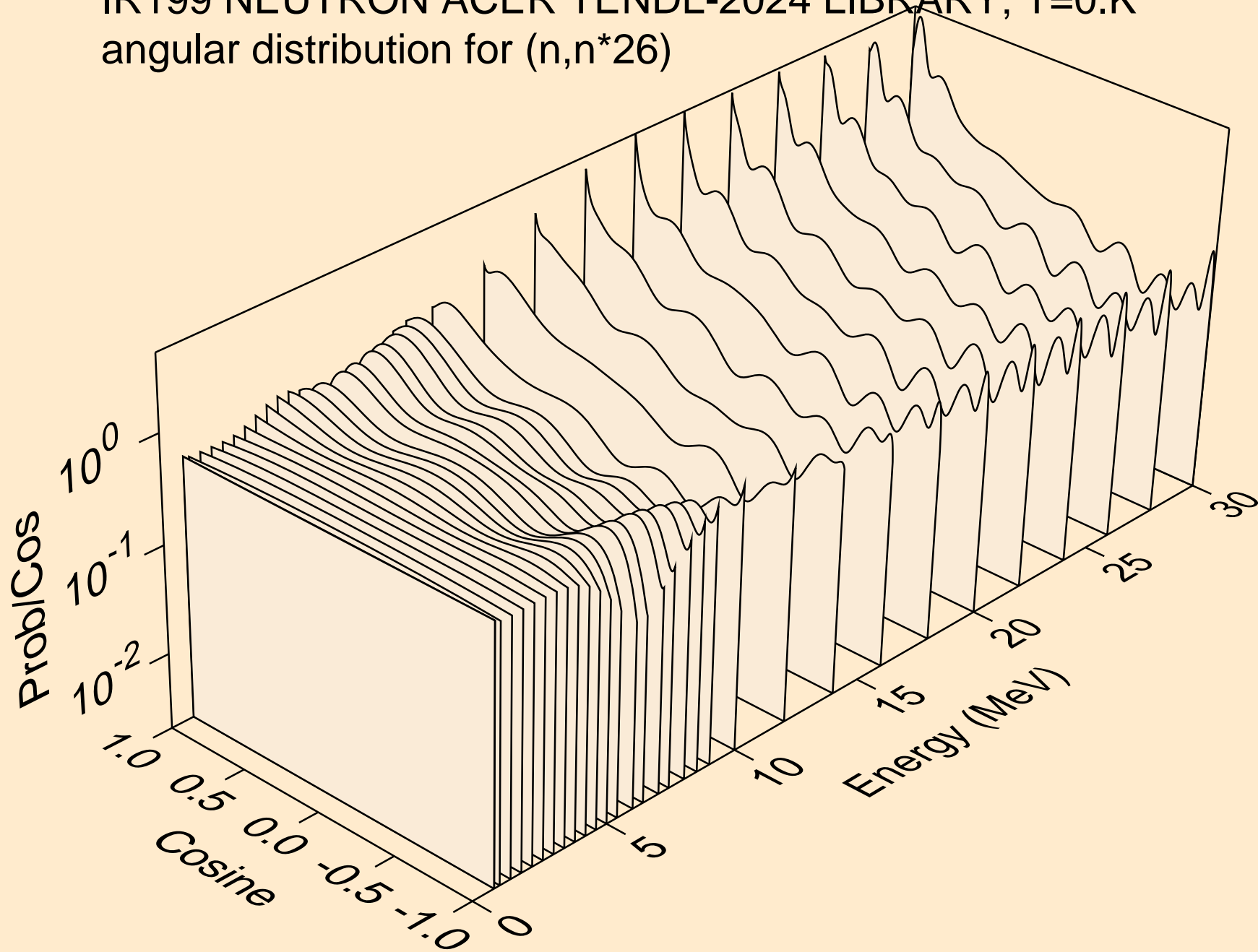
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angular distribution for (n,n\*24)



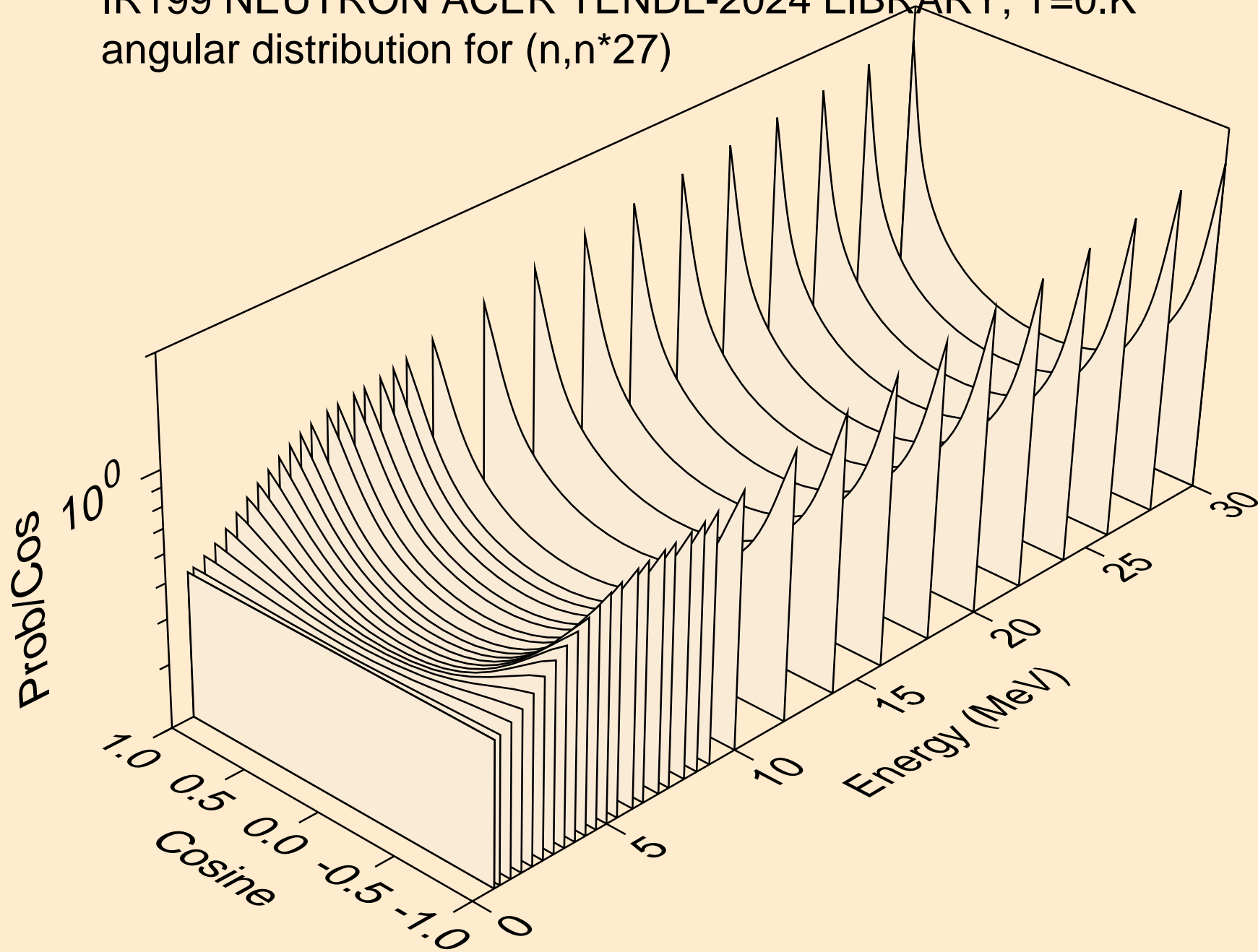
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angular distribution for (n,n\*25)



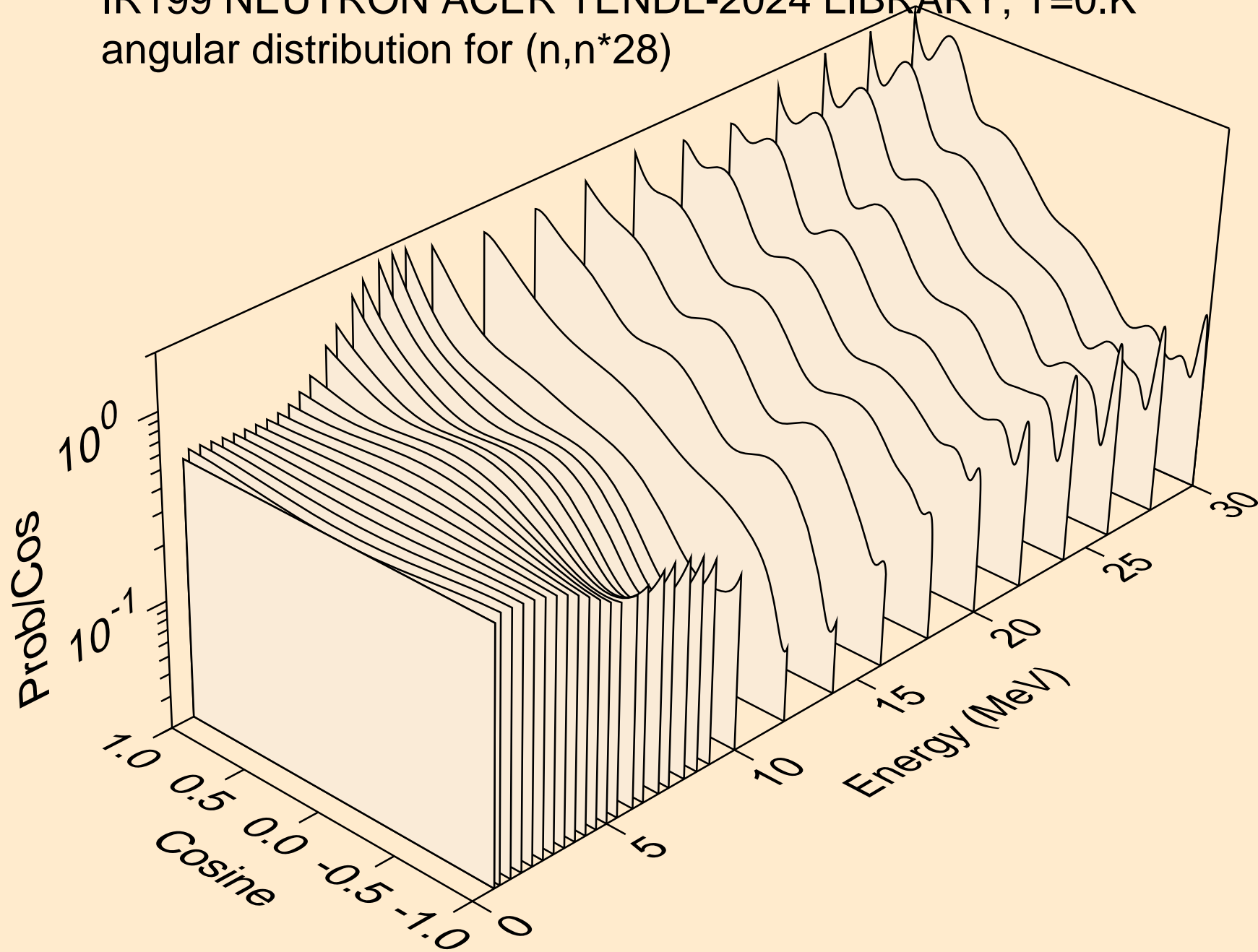
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angular distribution for (n,n\*26)



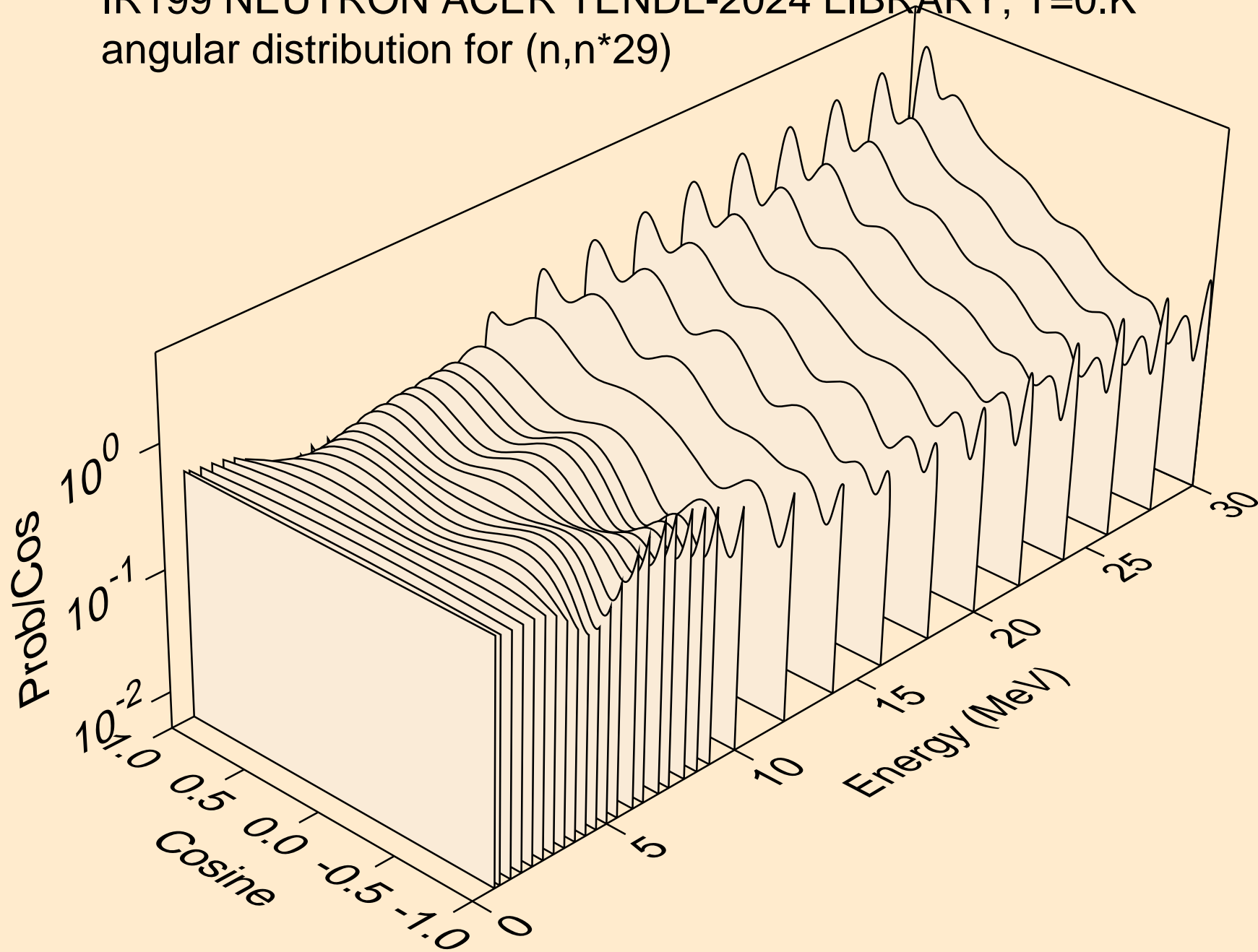
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)

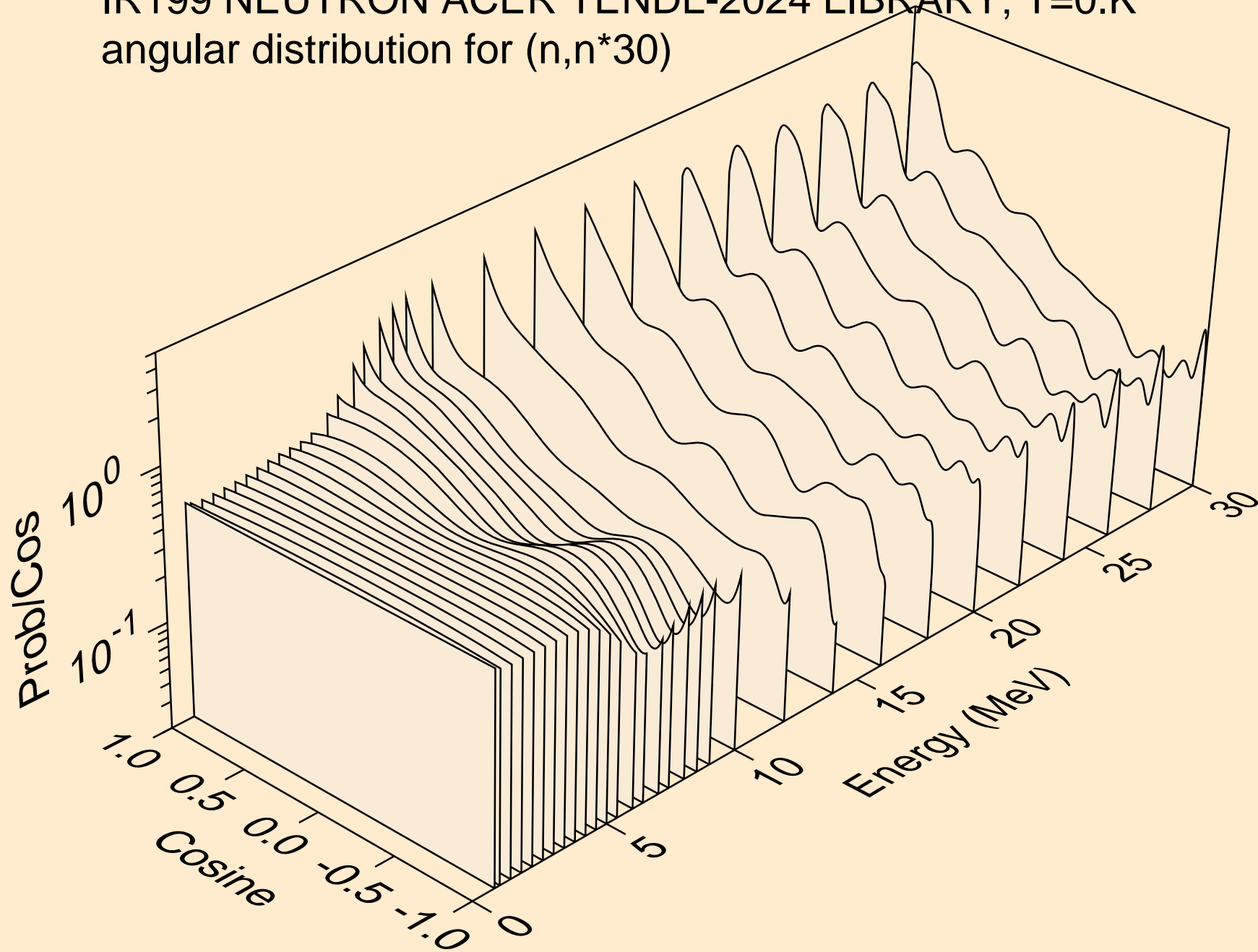


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)

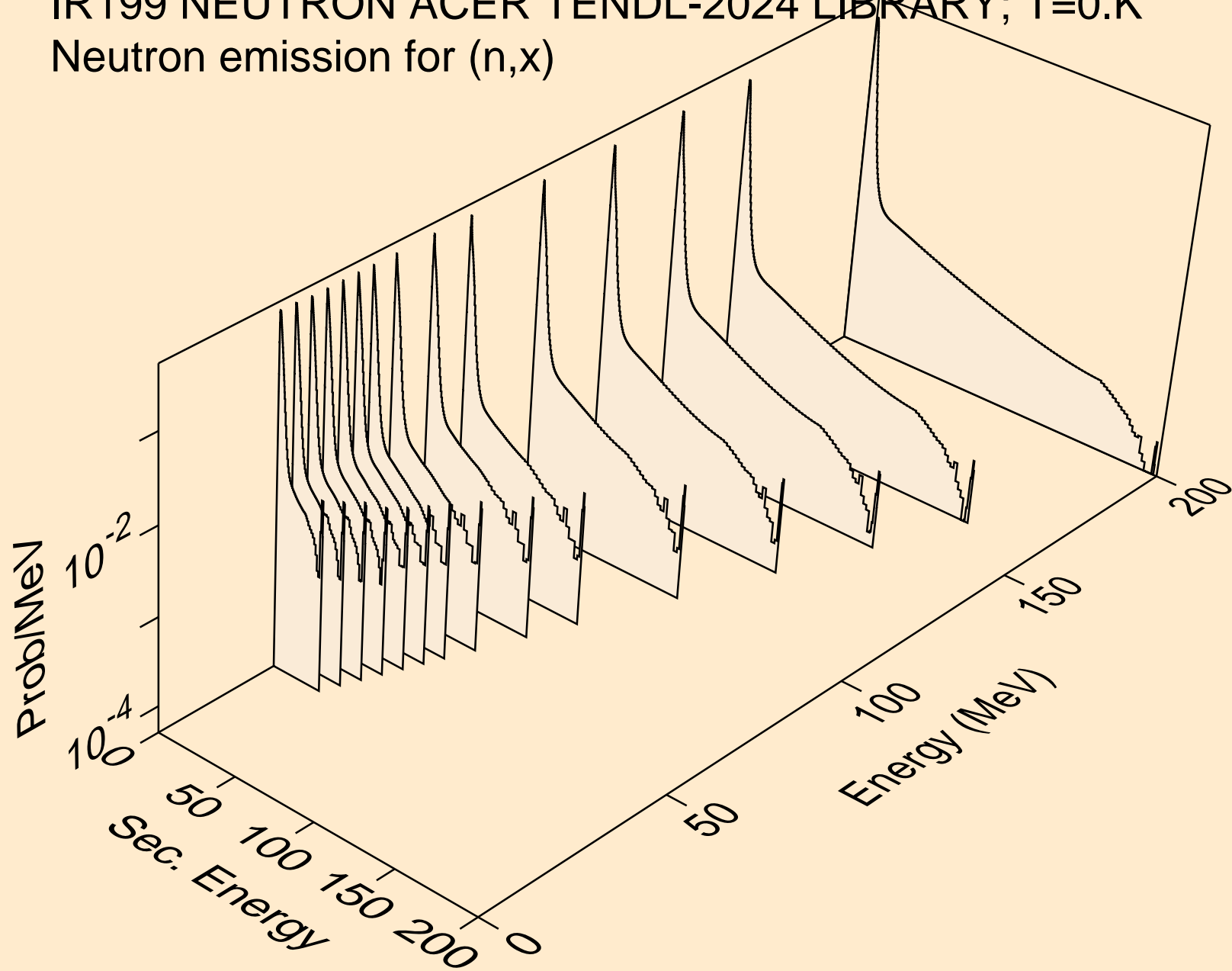




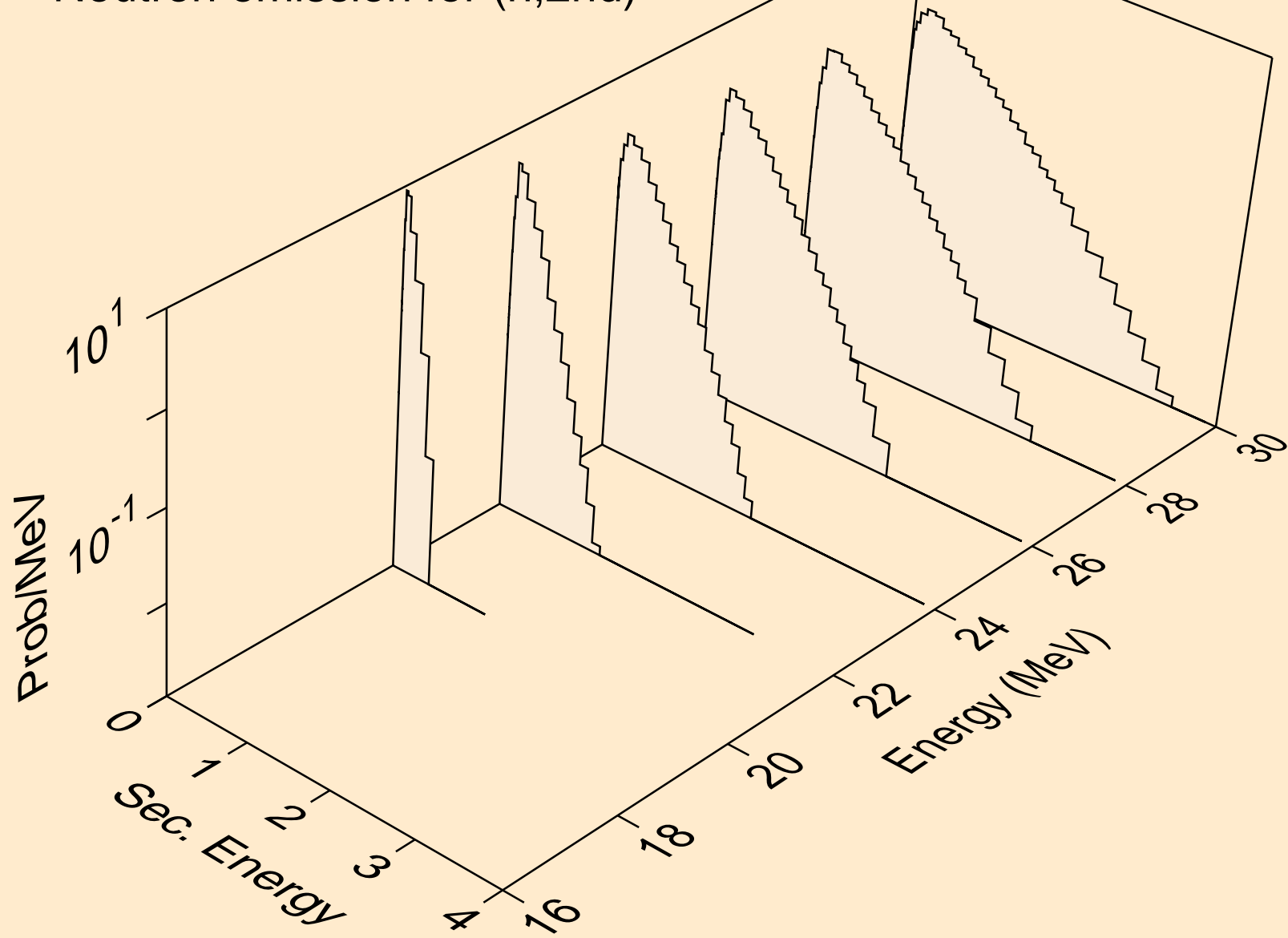
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



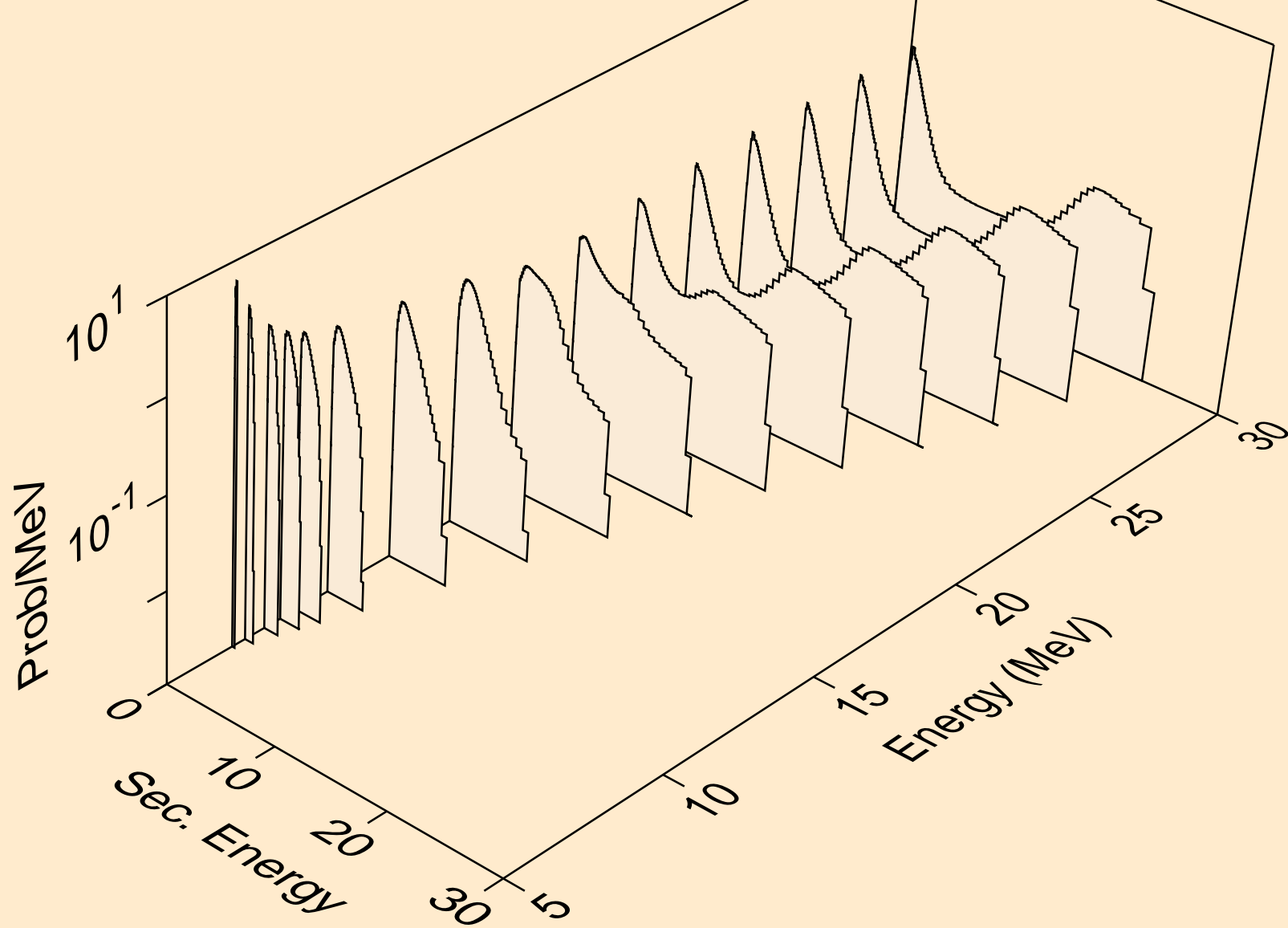
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



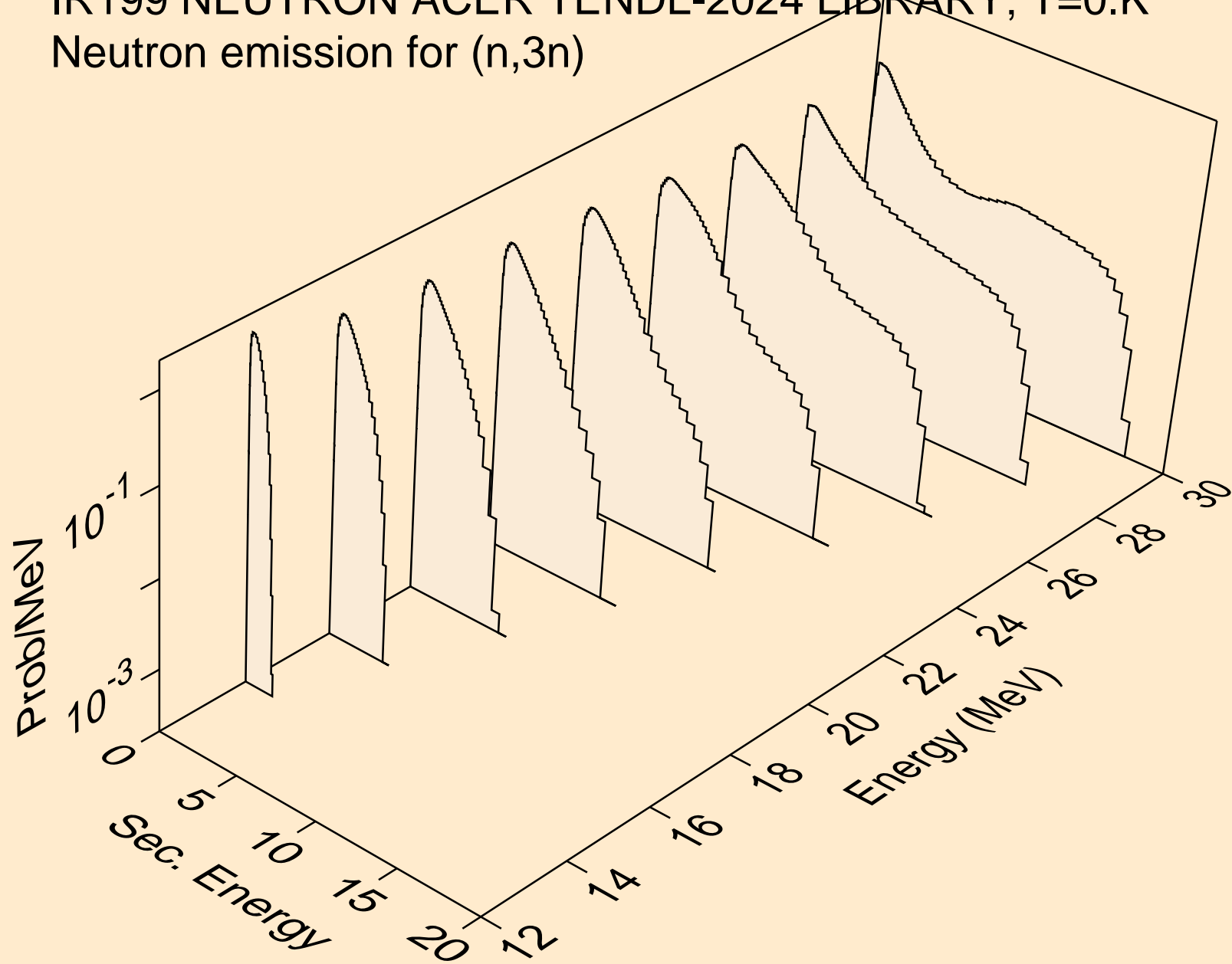
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



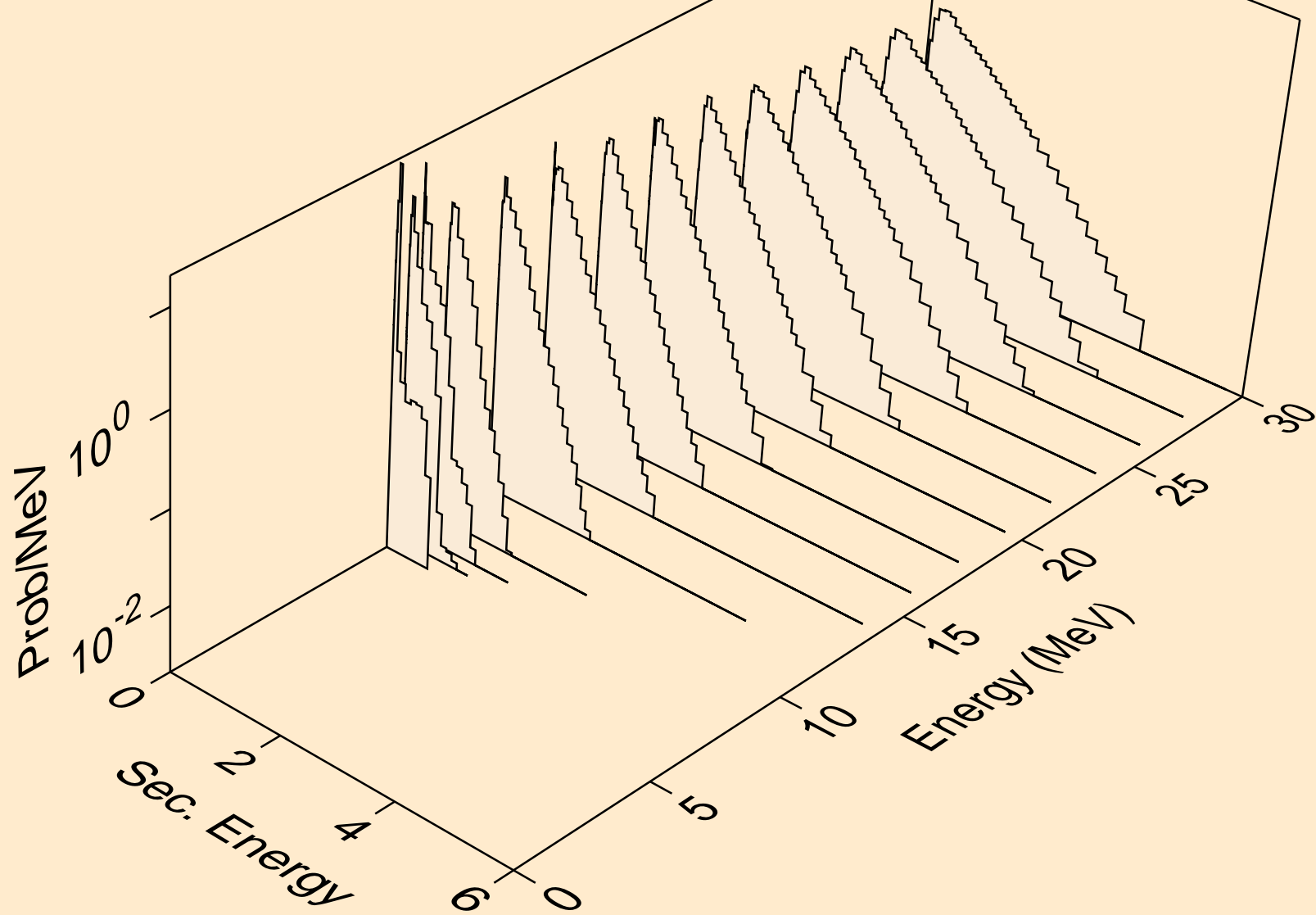
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



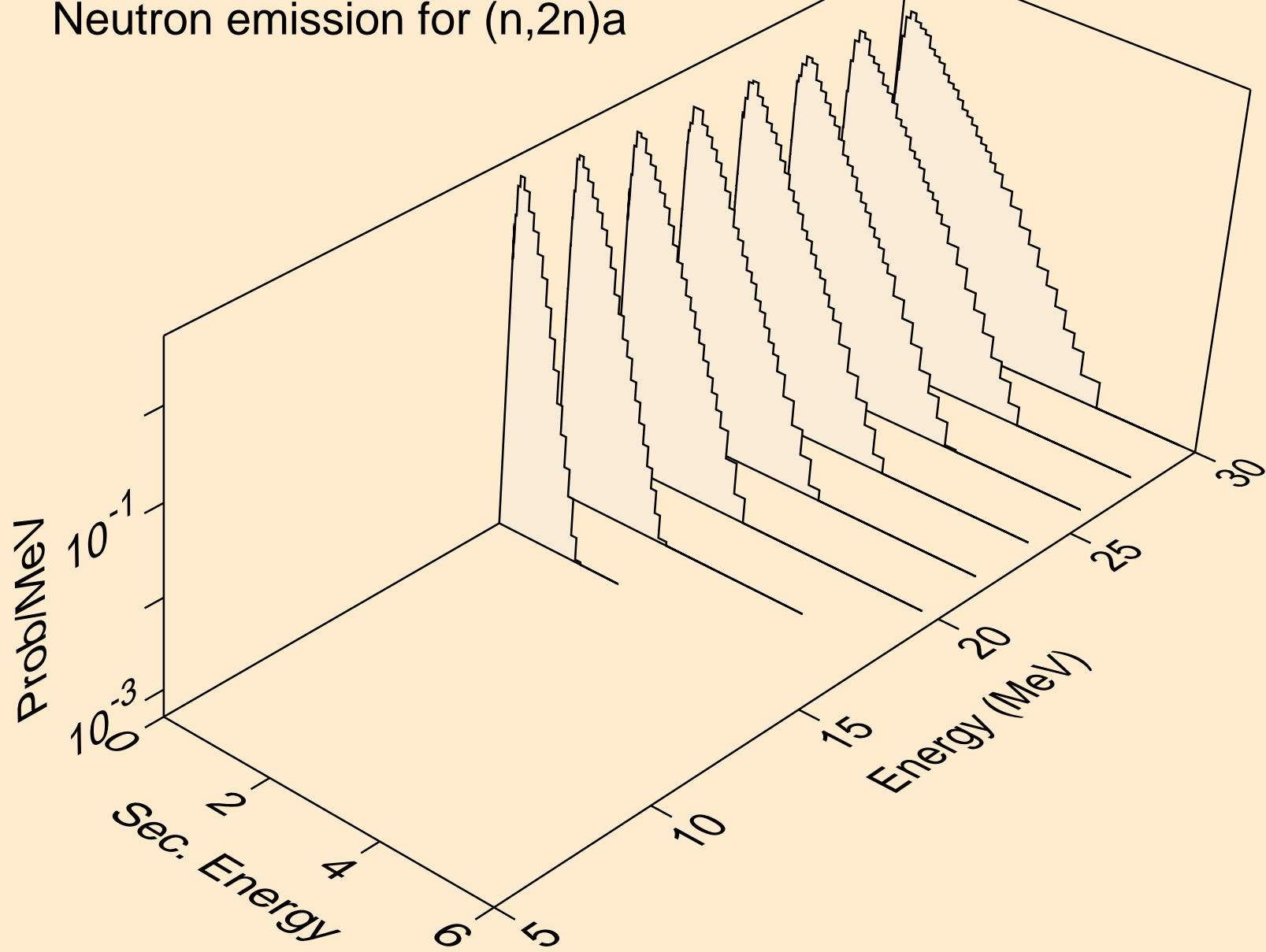
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



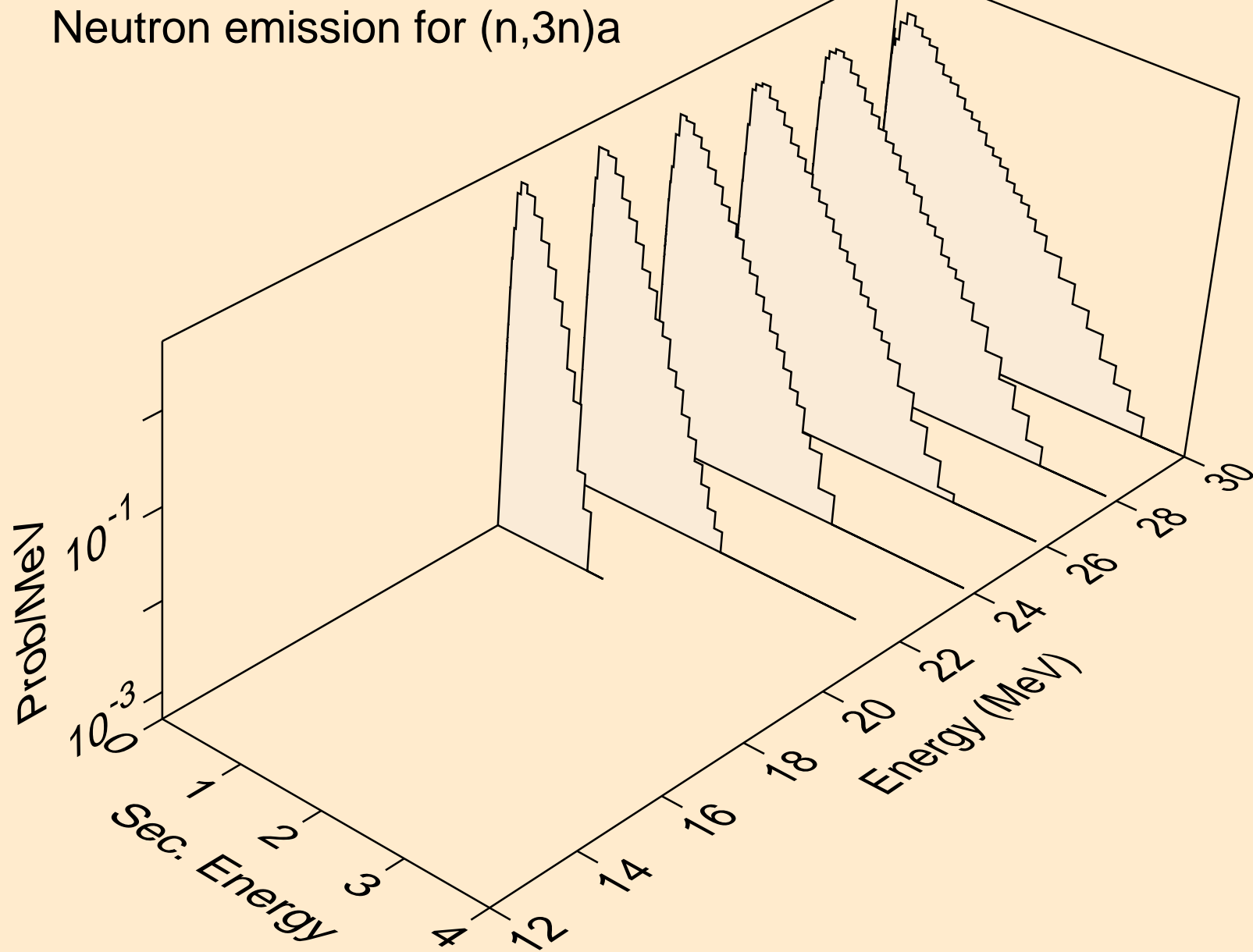
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

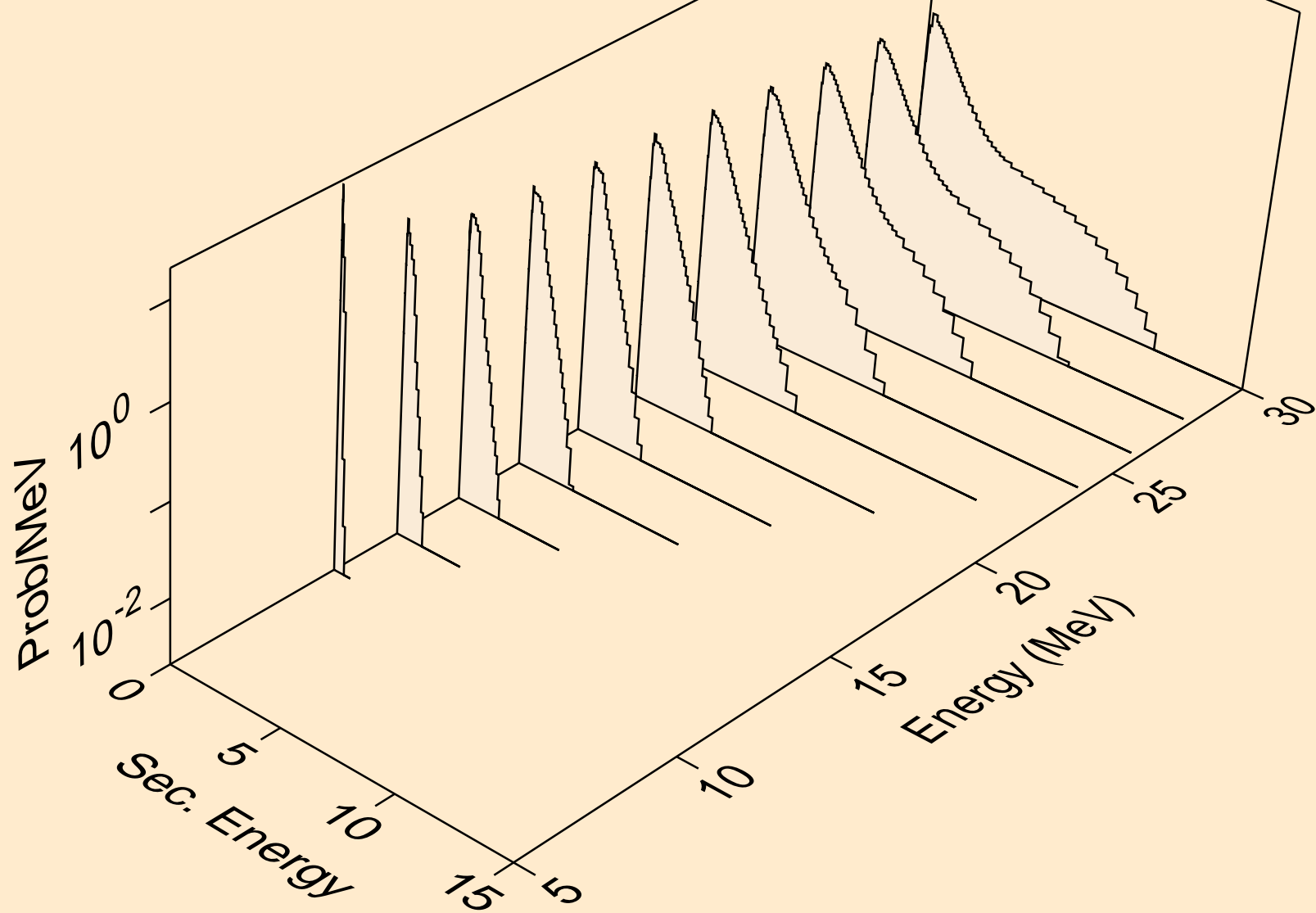


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

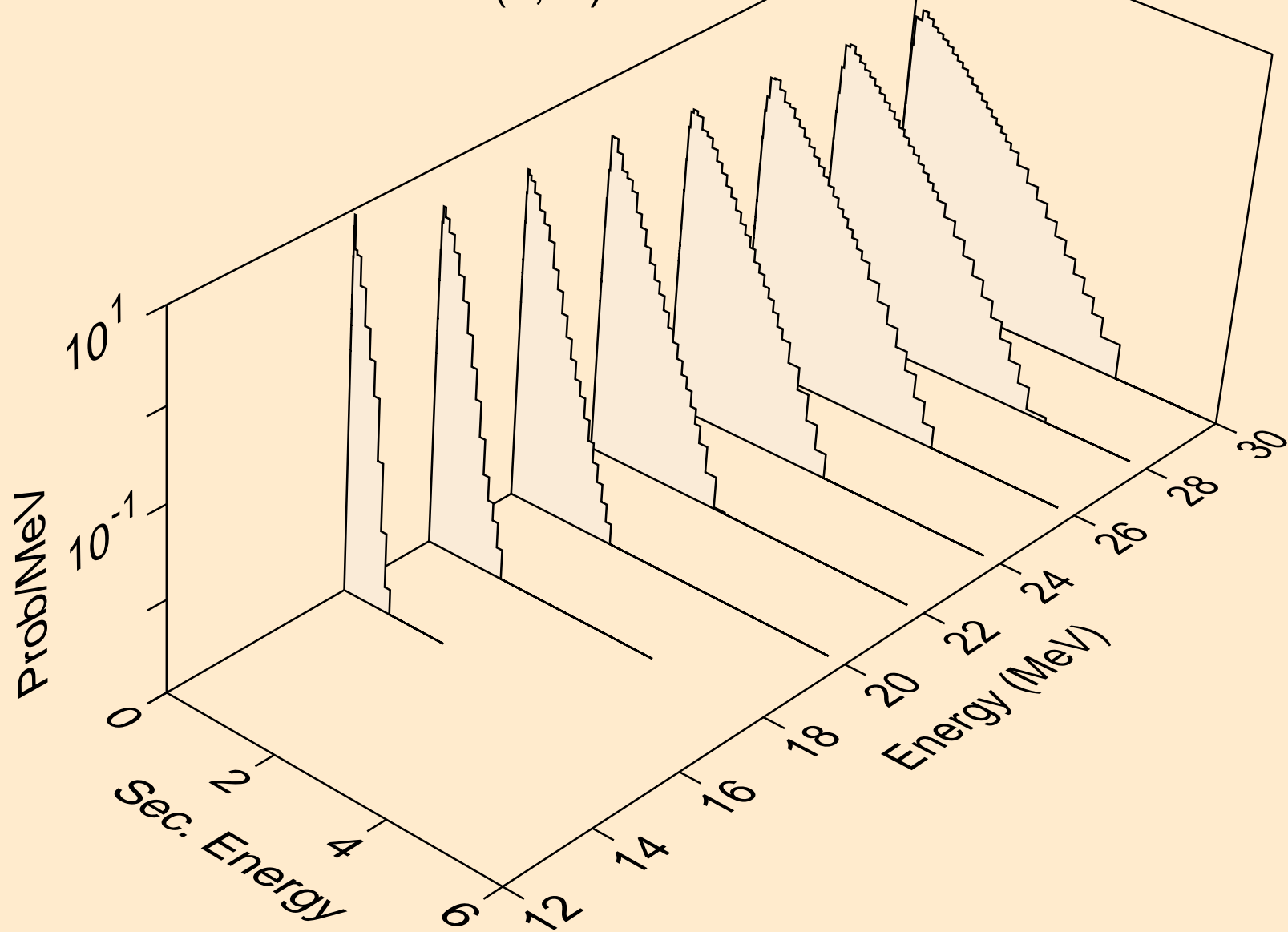




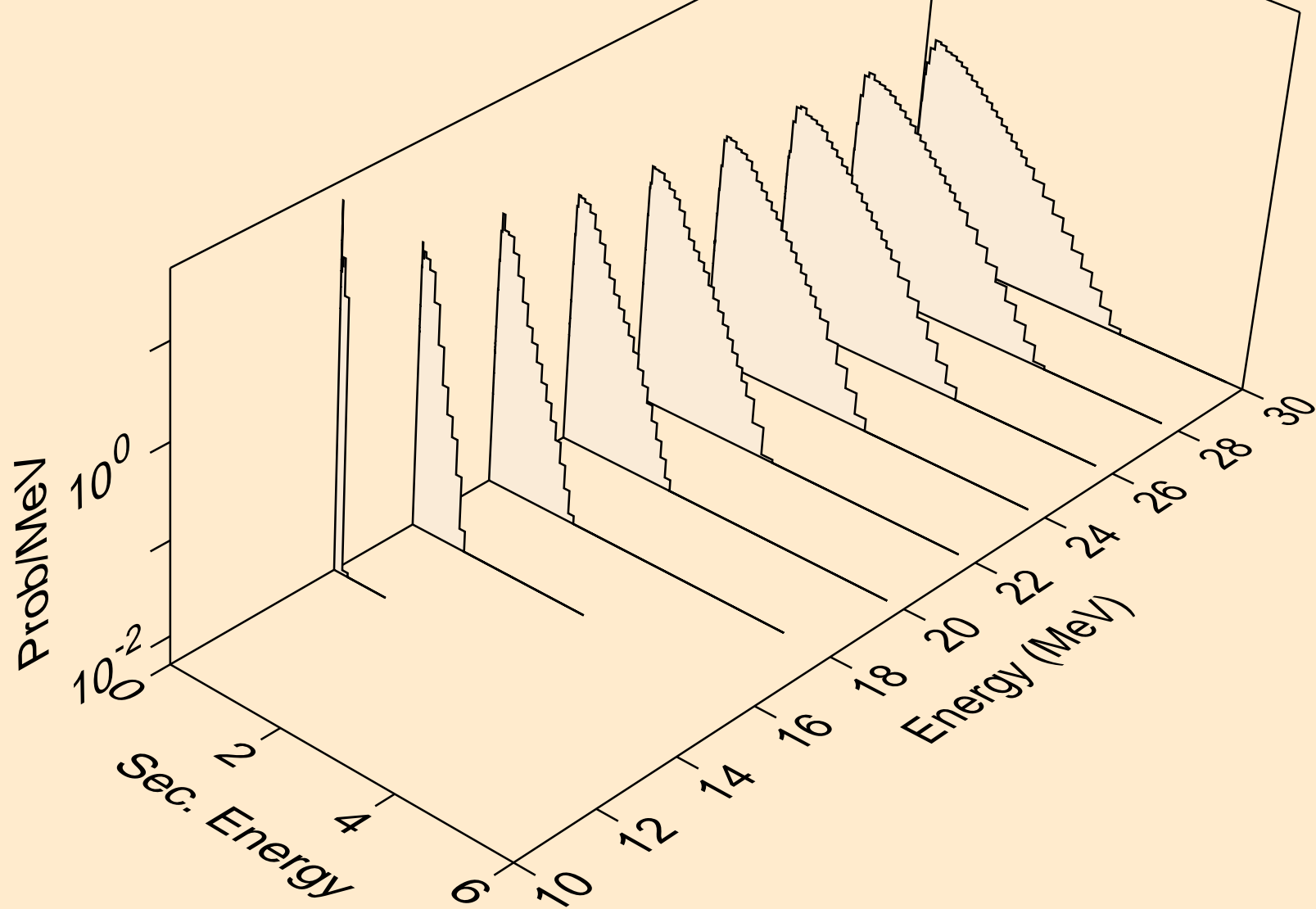
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



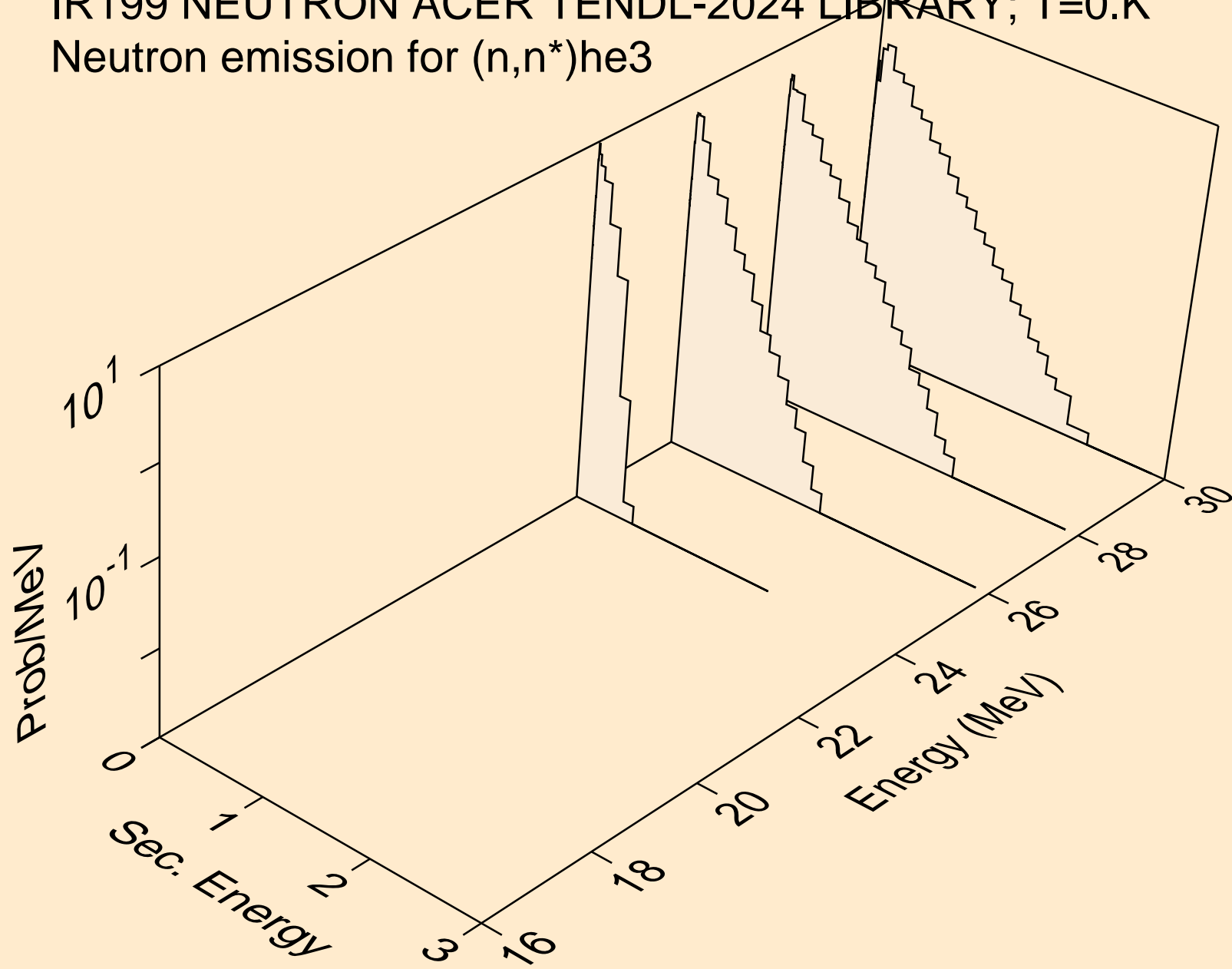
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



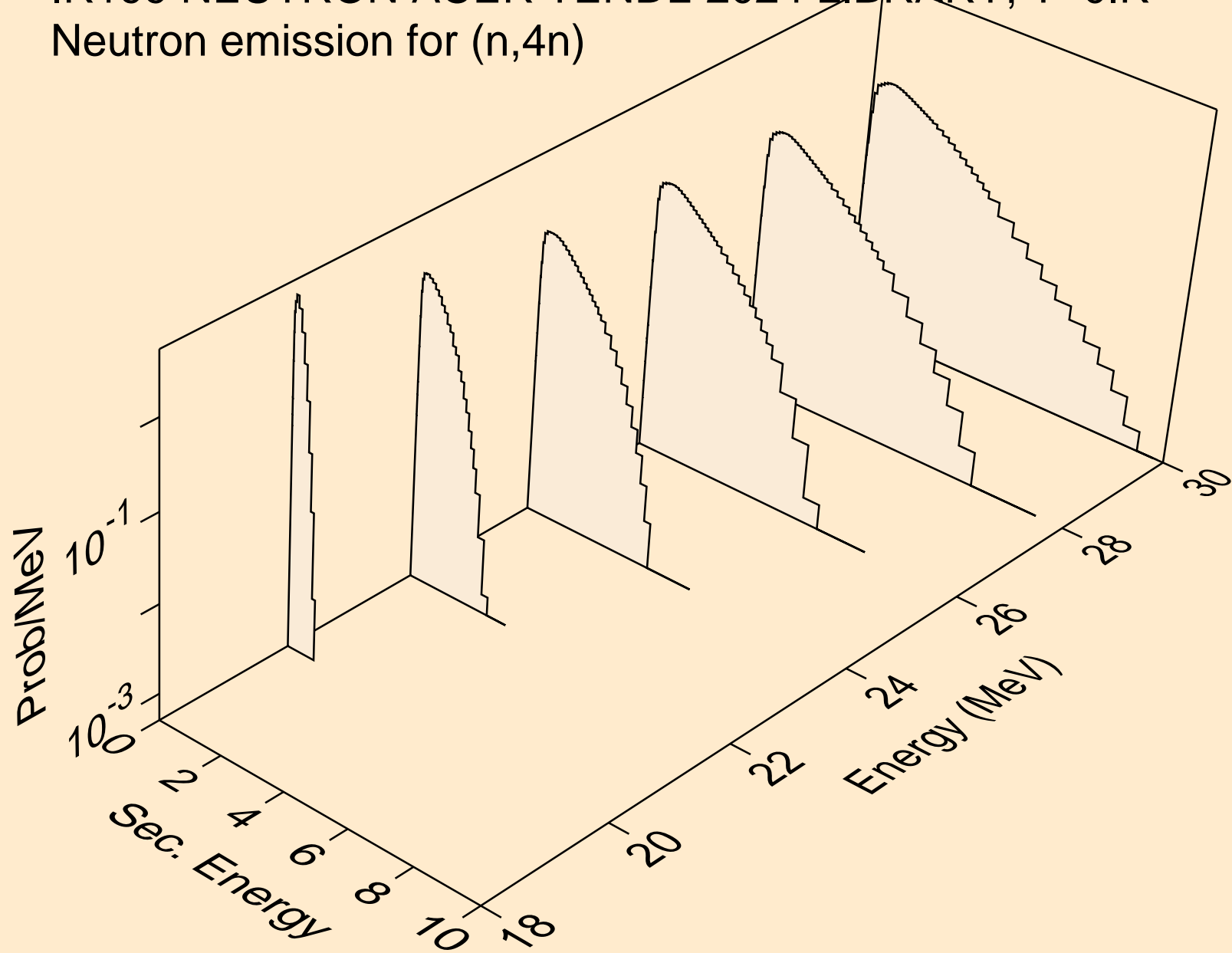
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



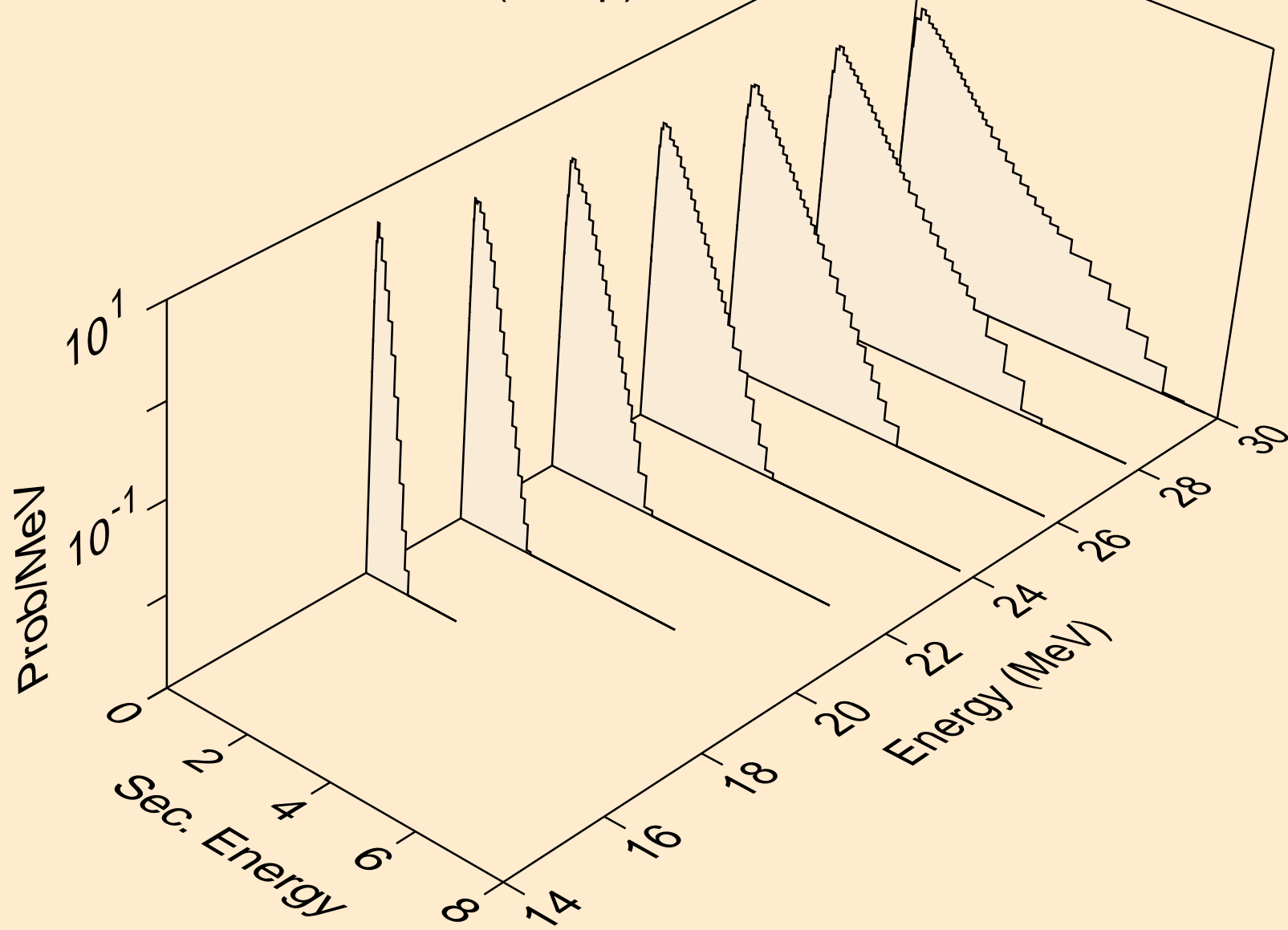
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



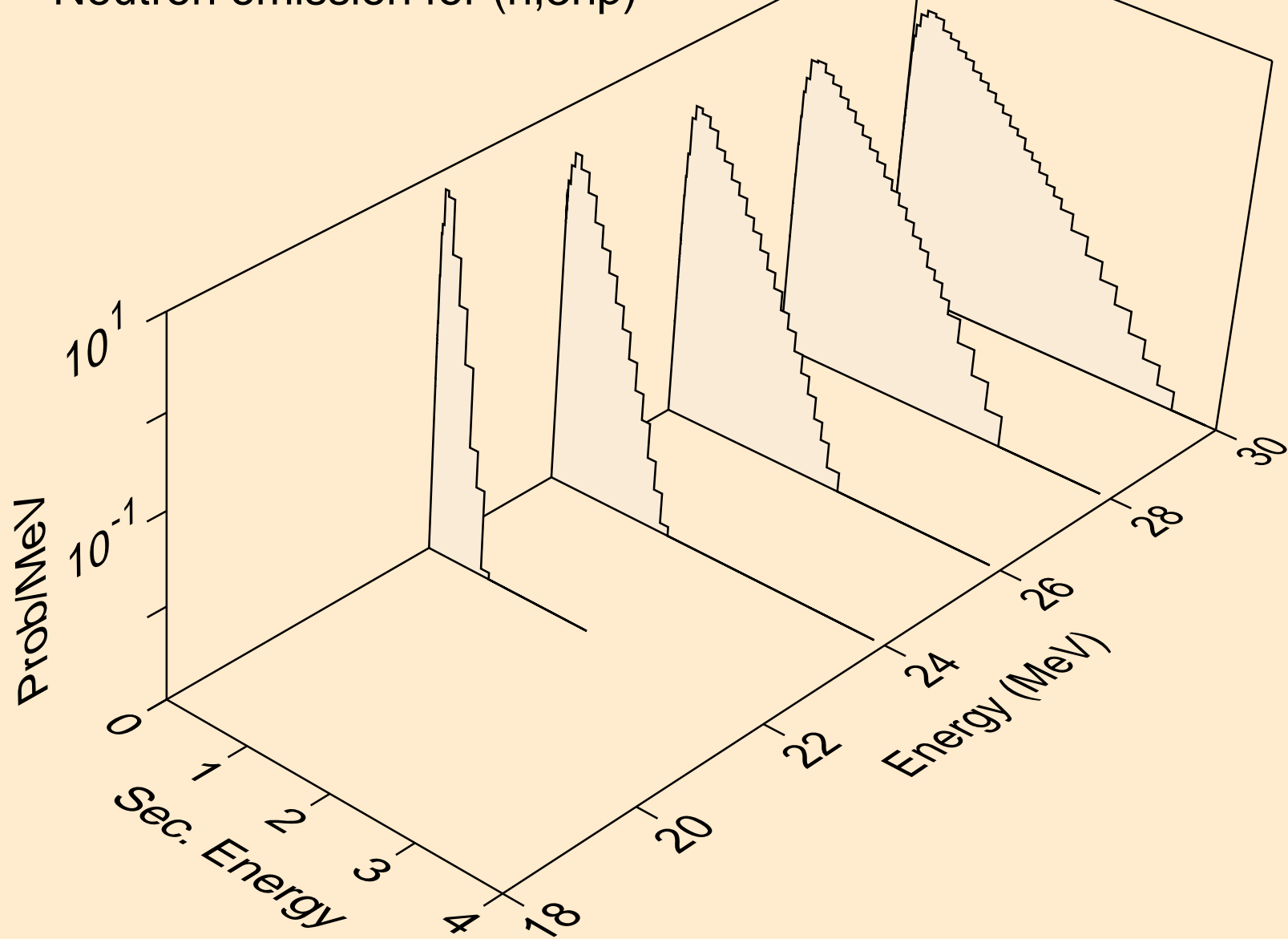
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



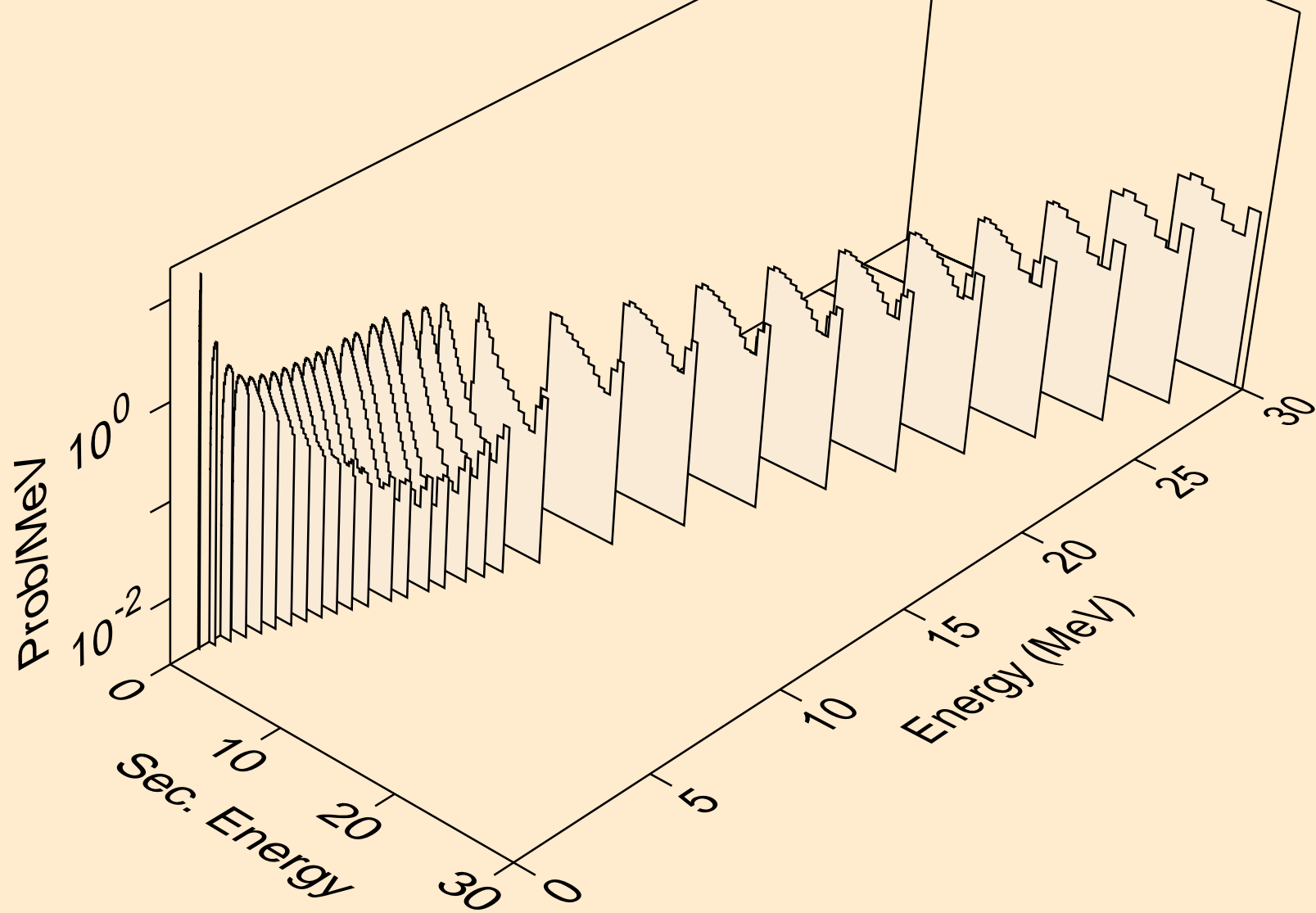
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)

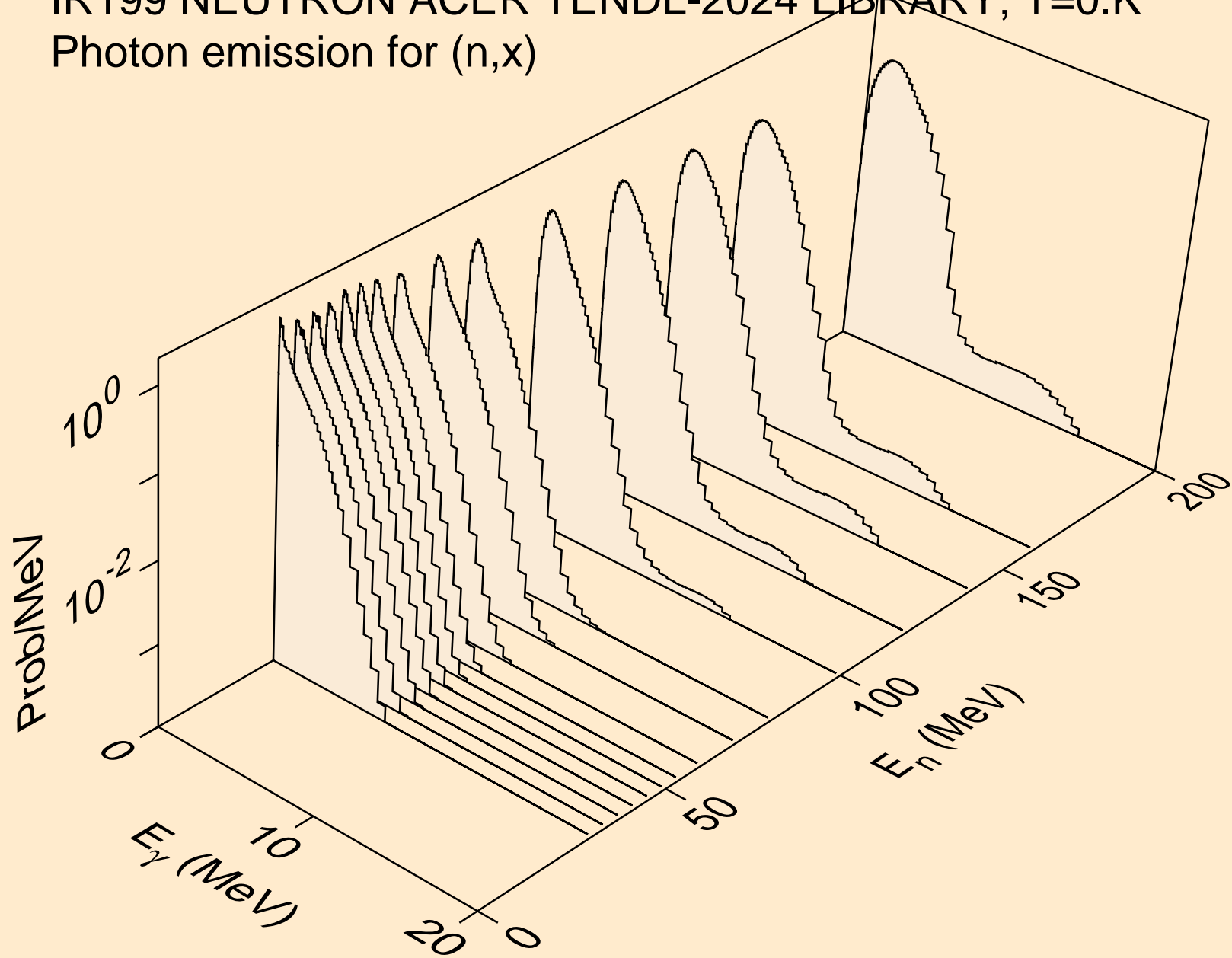


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

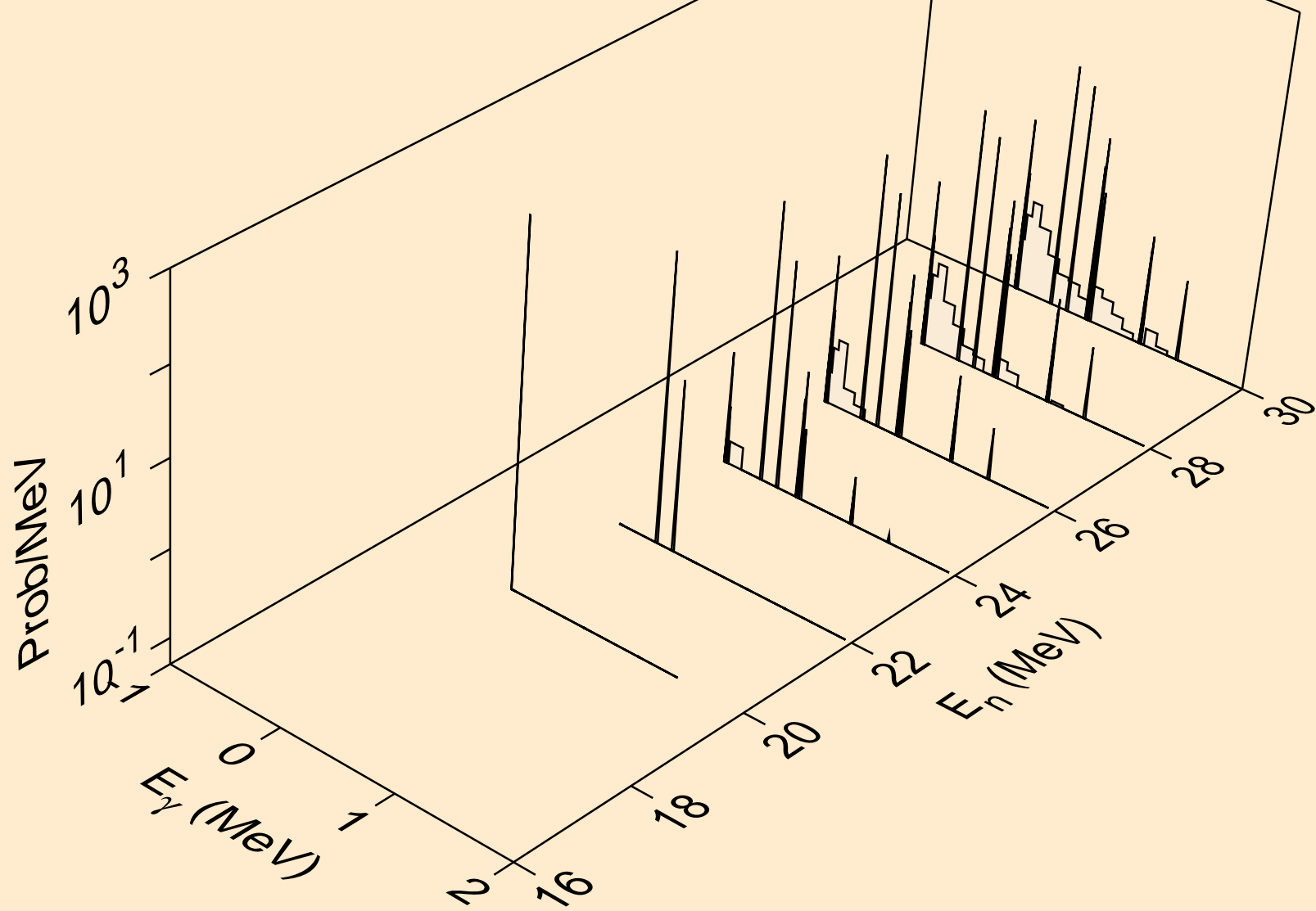




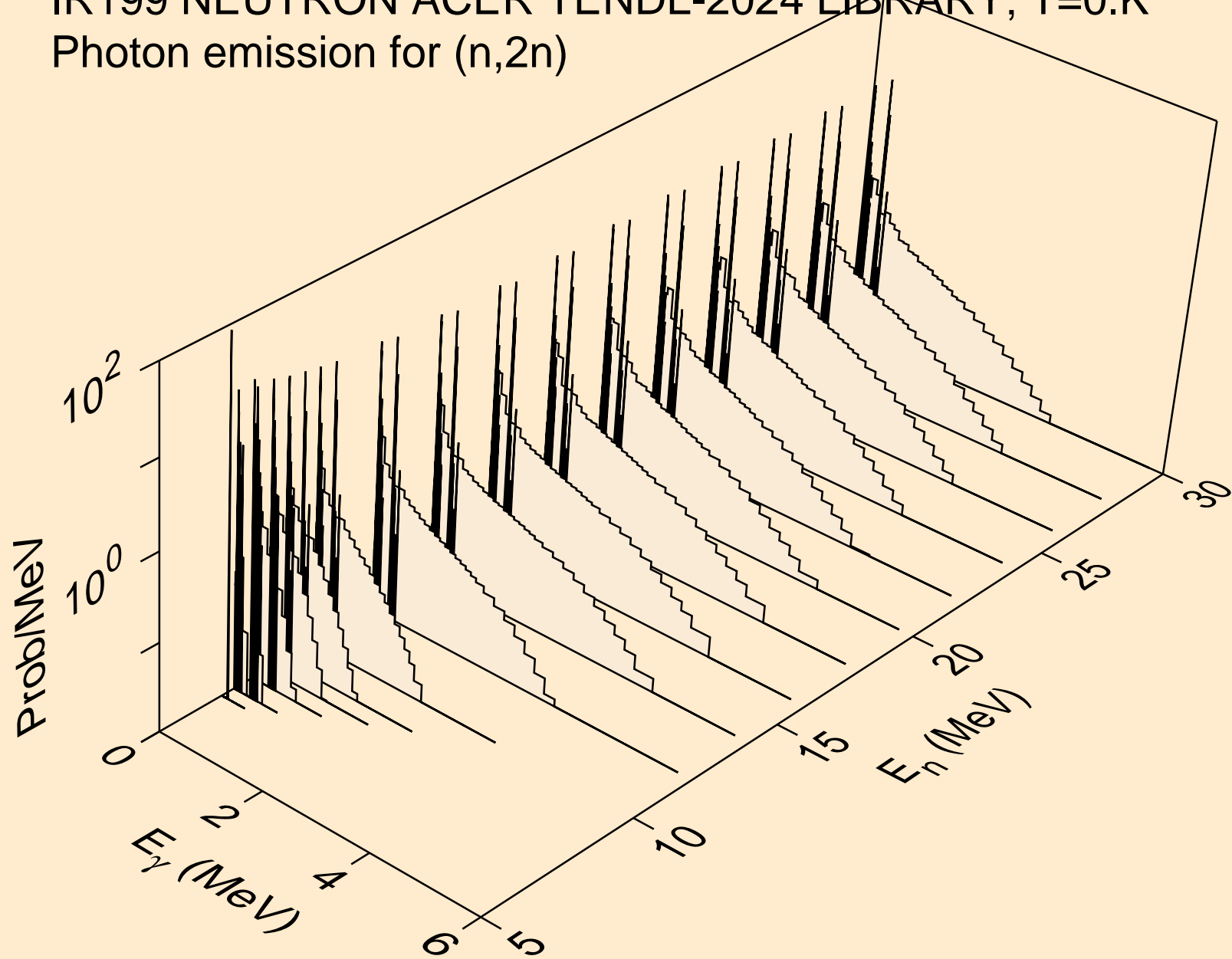
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



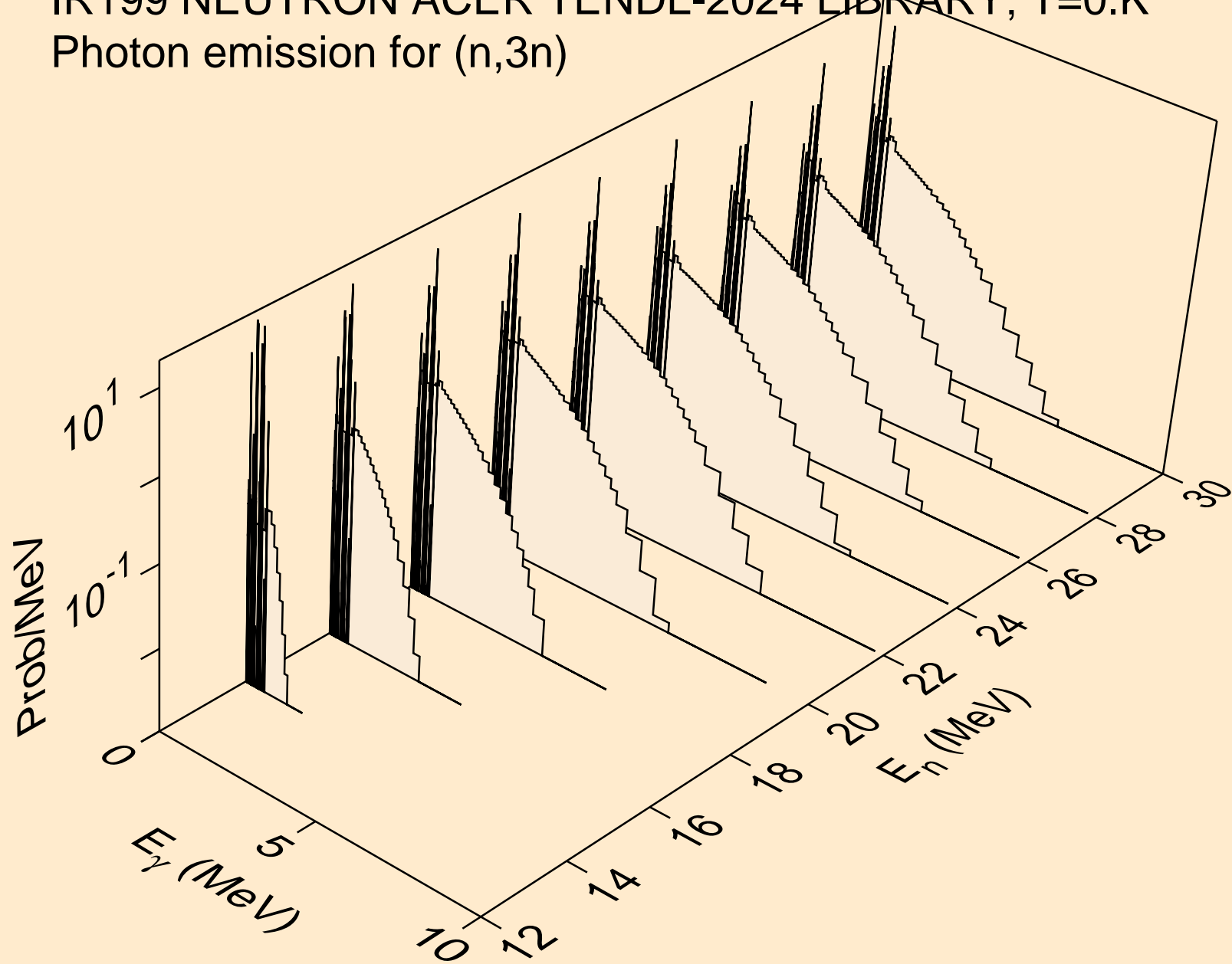
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)



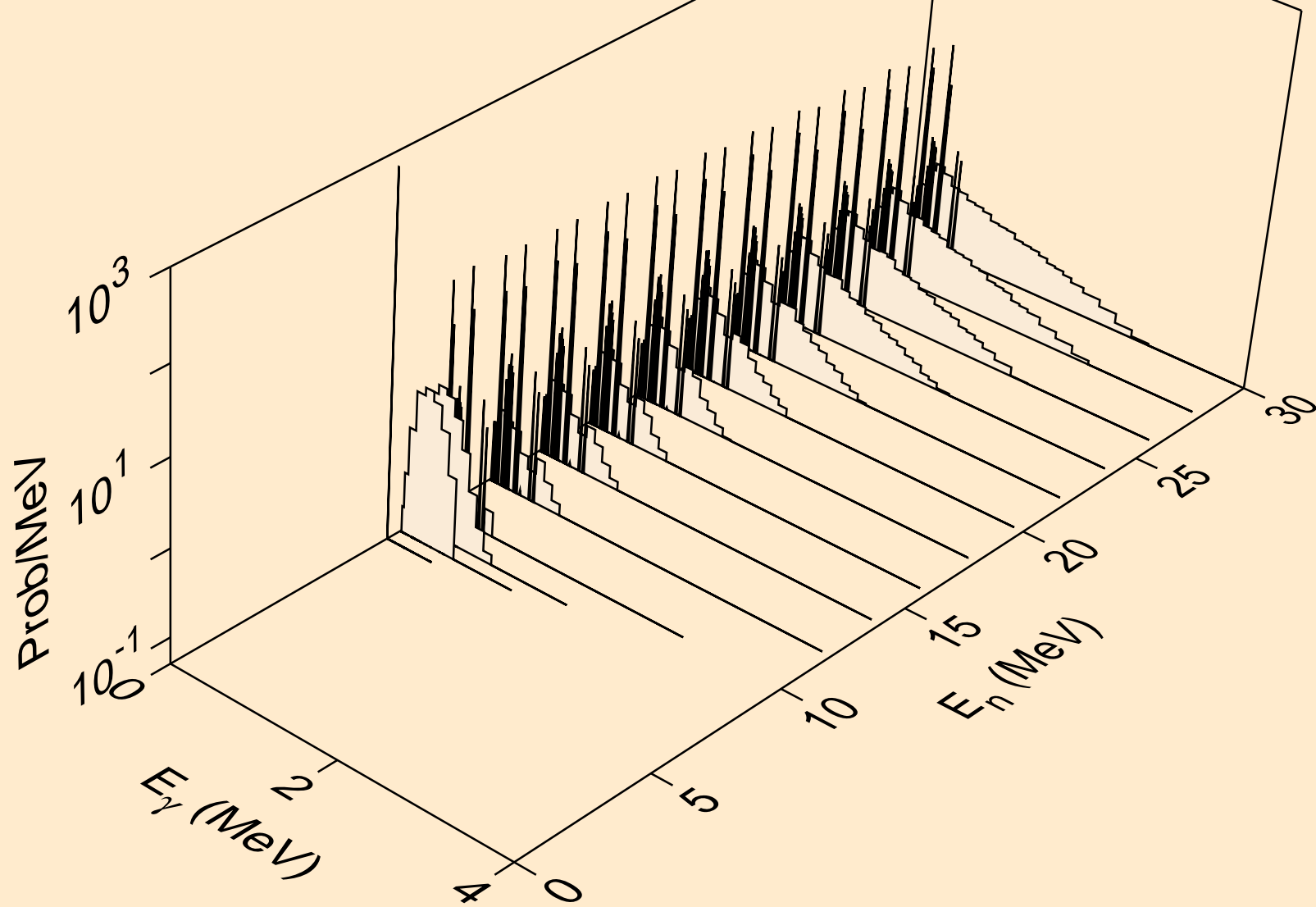
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Photon emission for (n,2n)



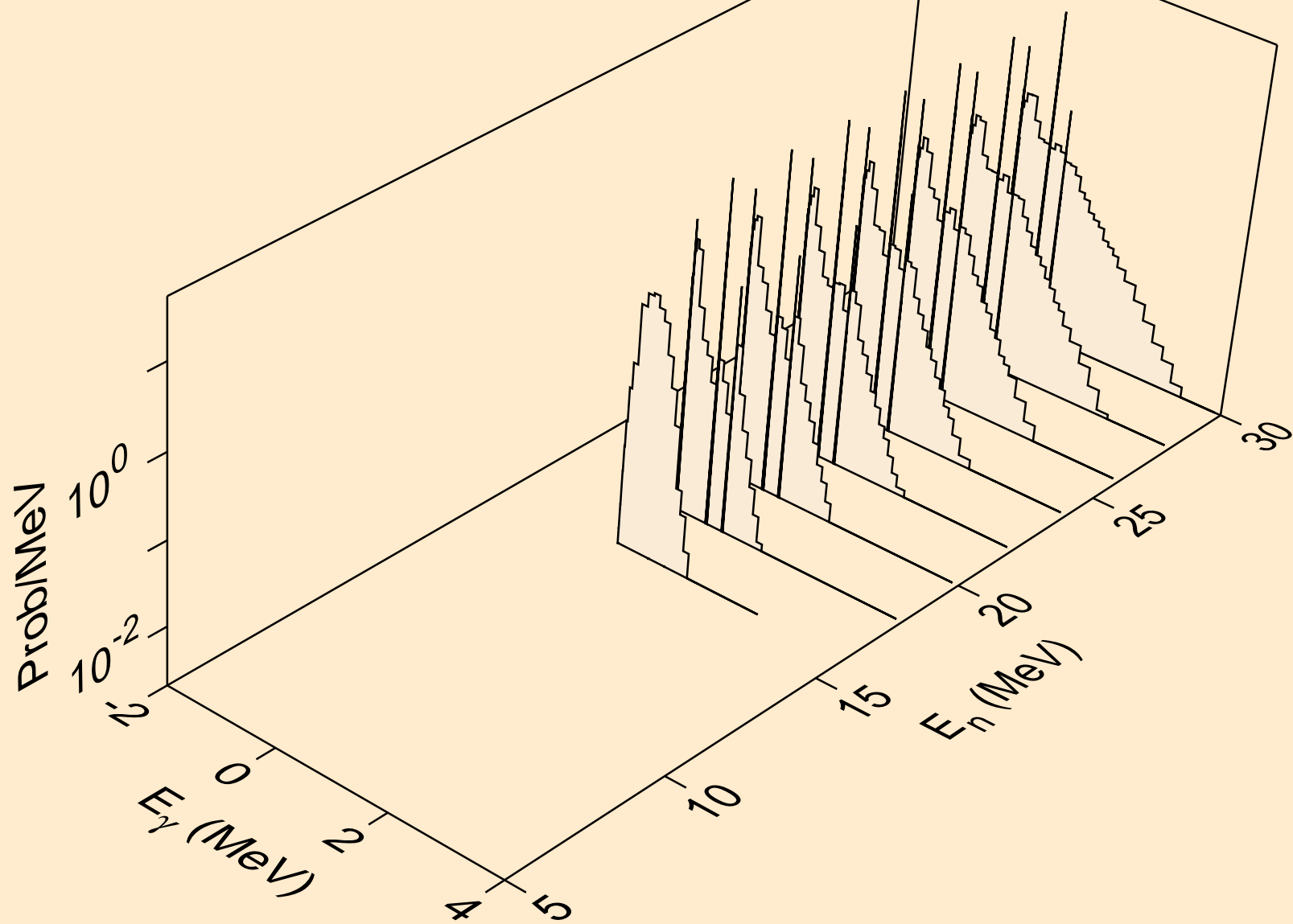
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



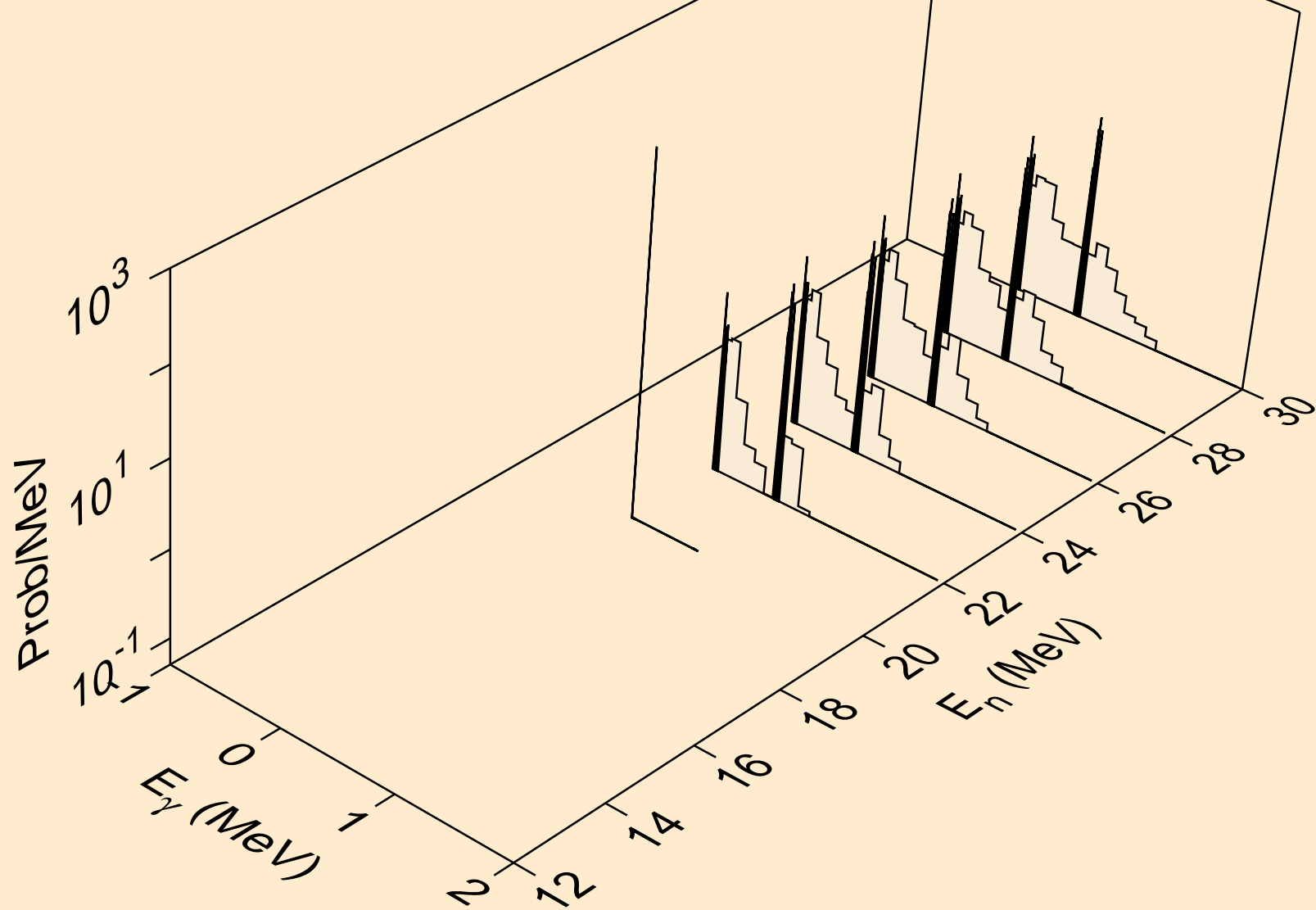
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



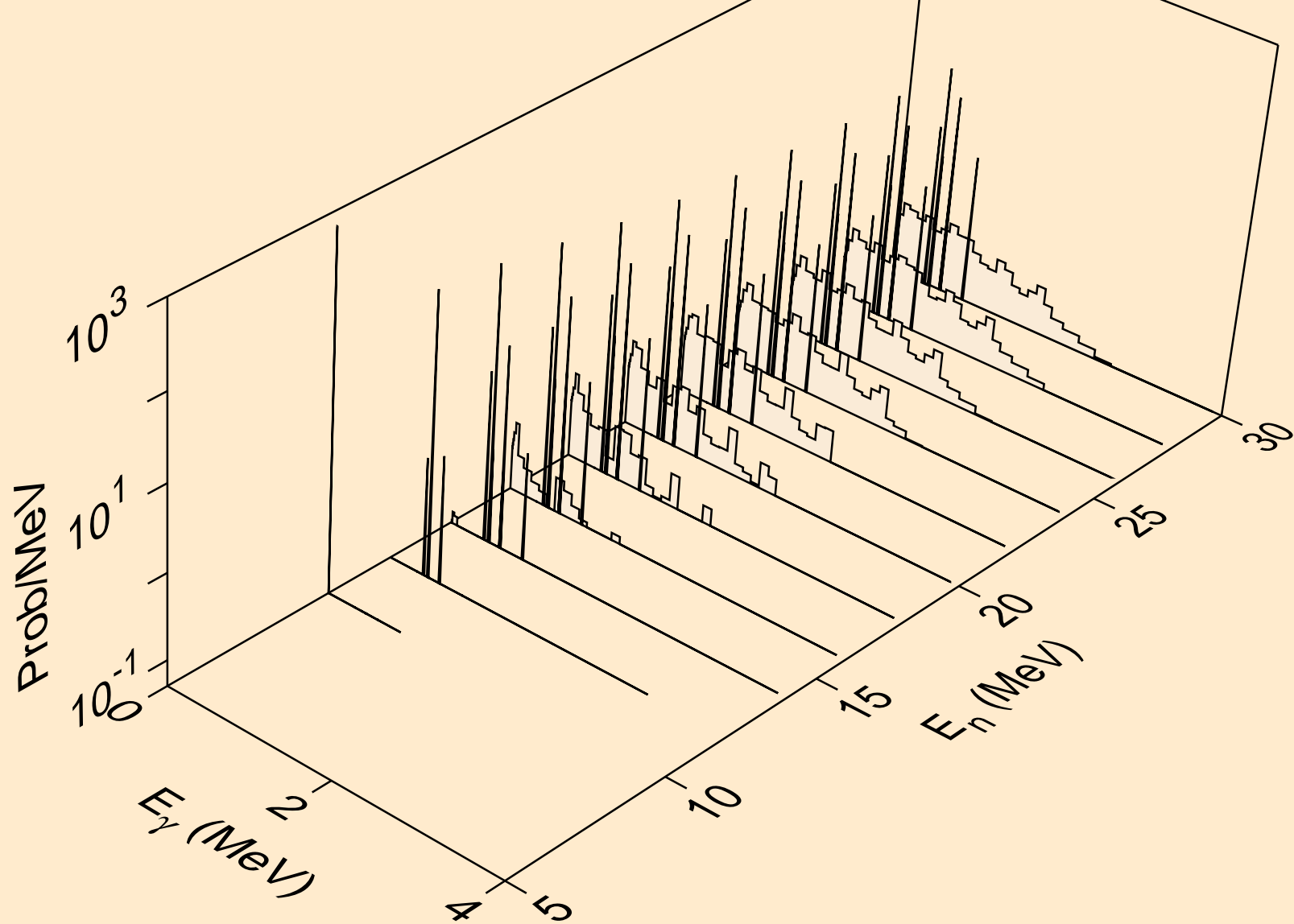
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a

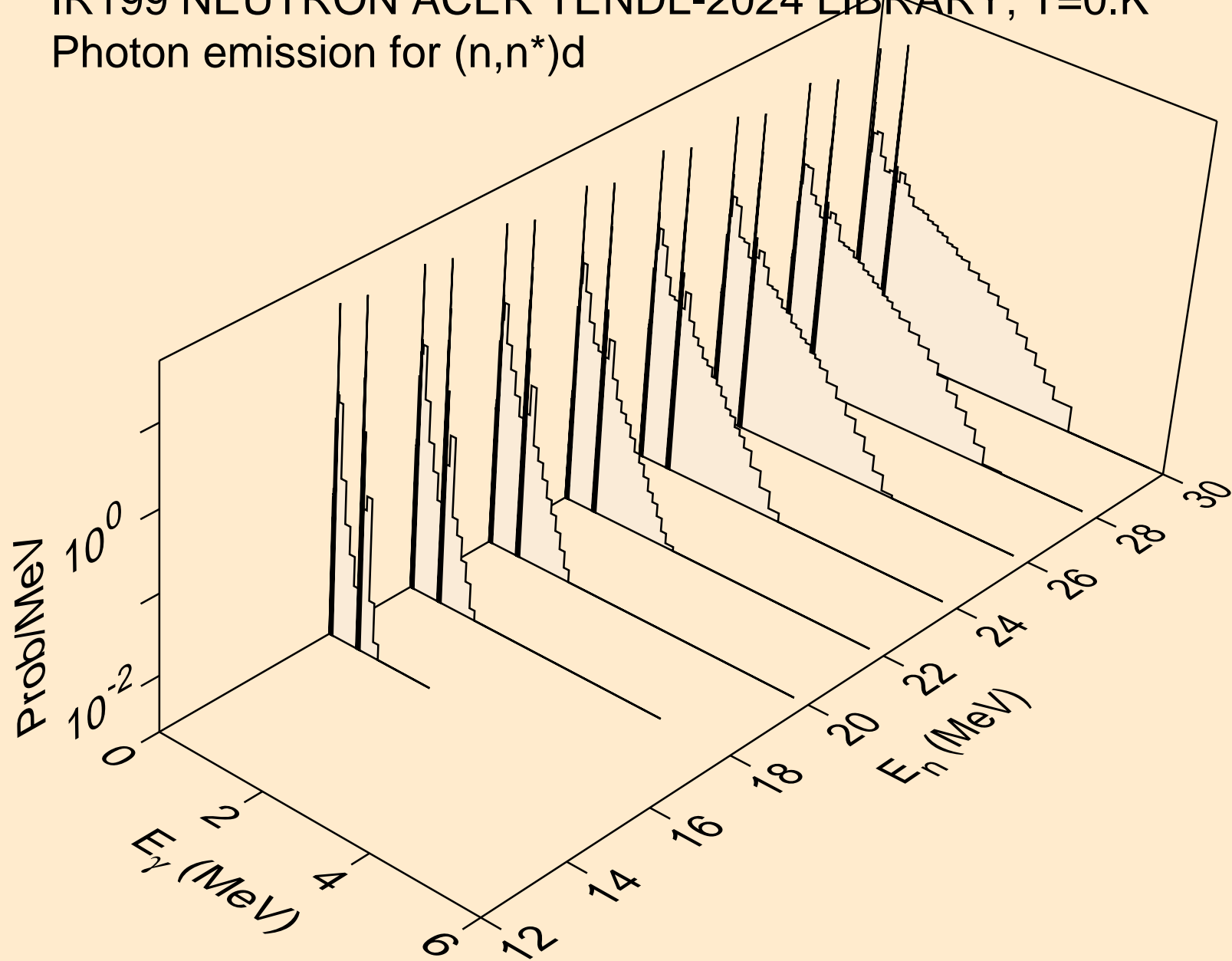


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

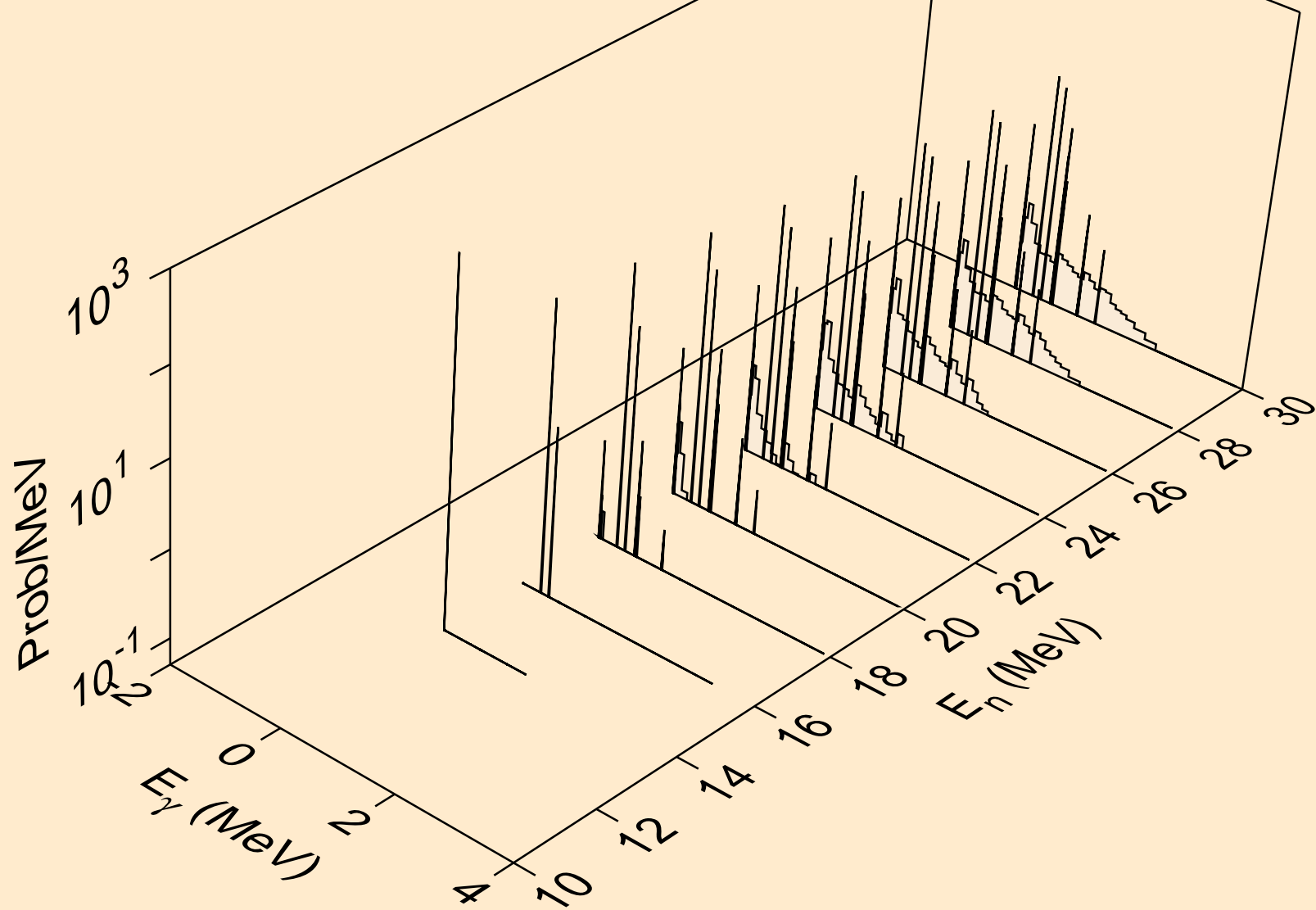




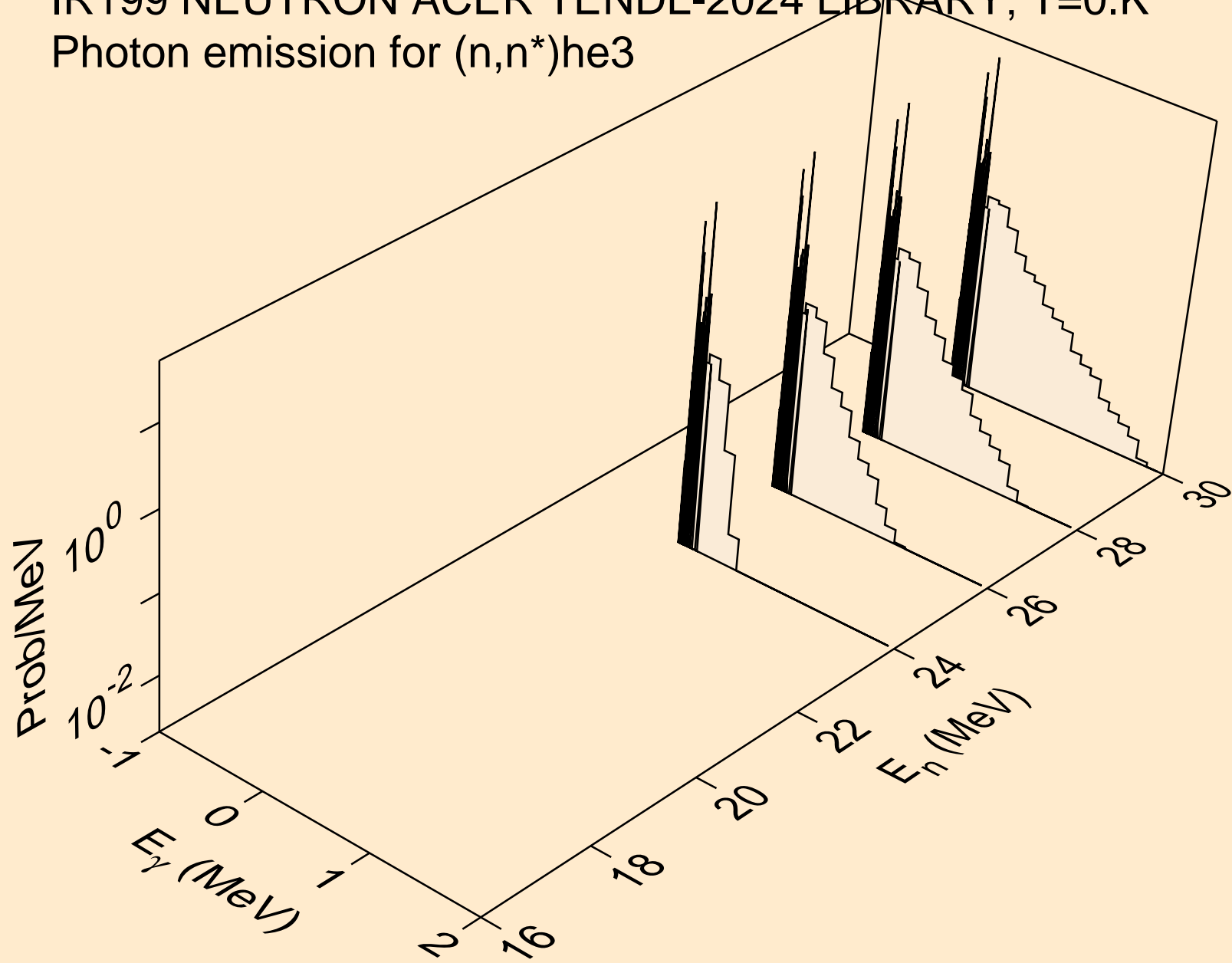
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



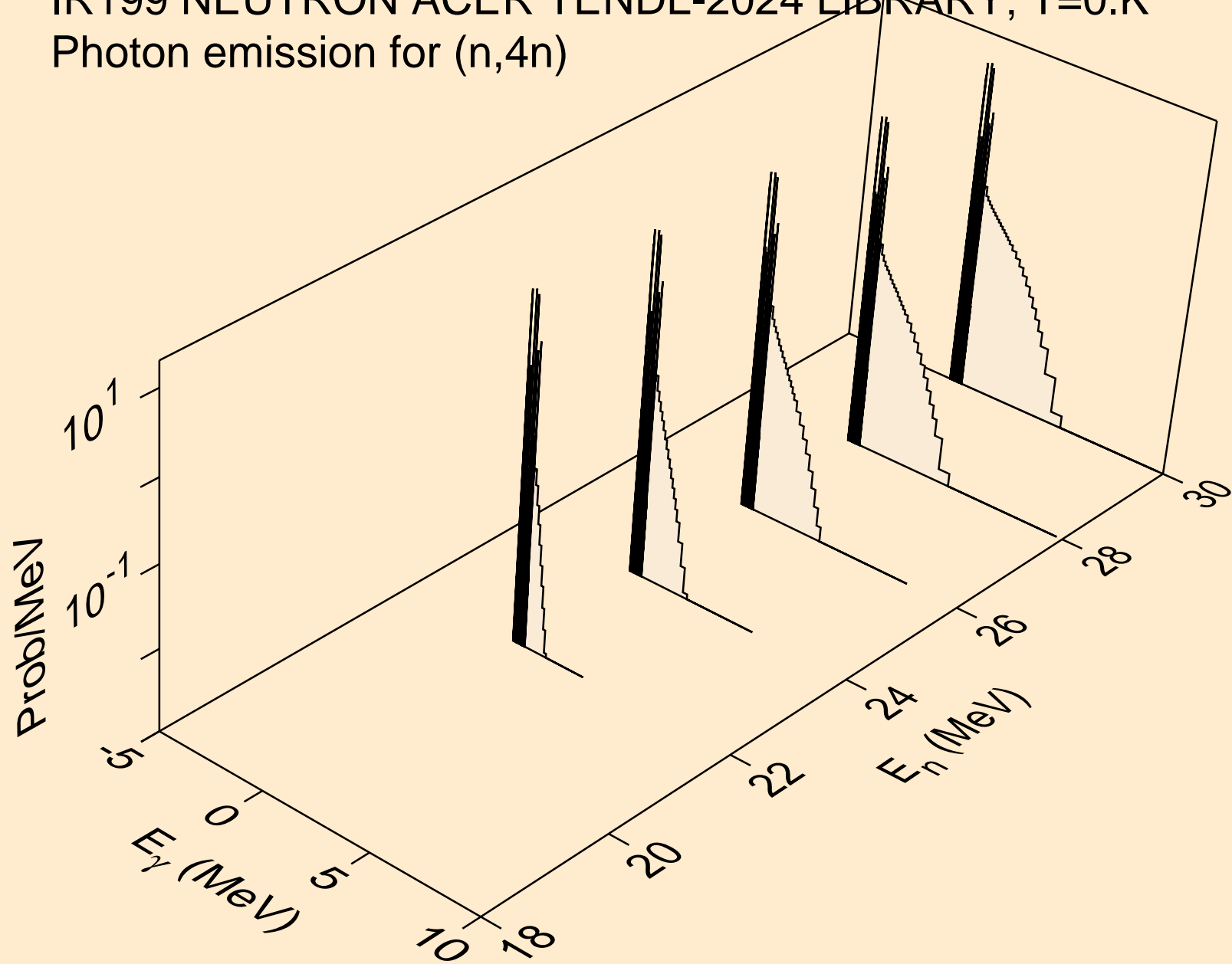
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Photon emission for (n,n\*)t



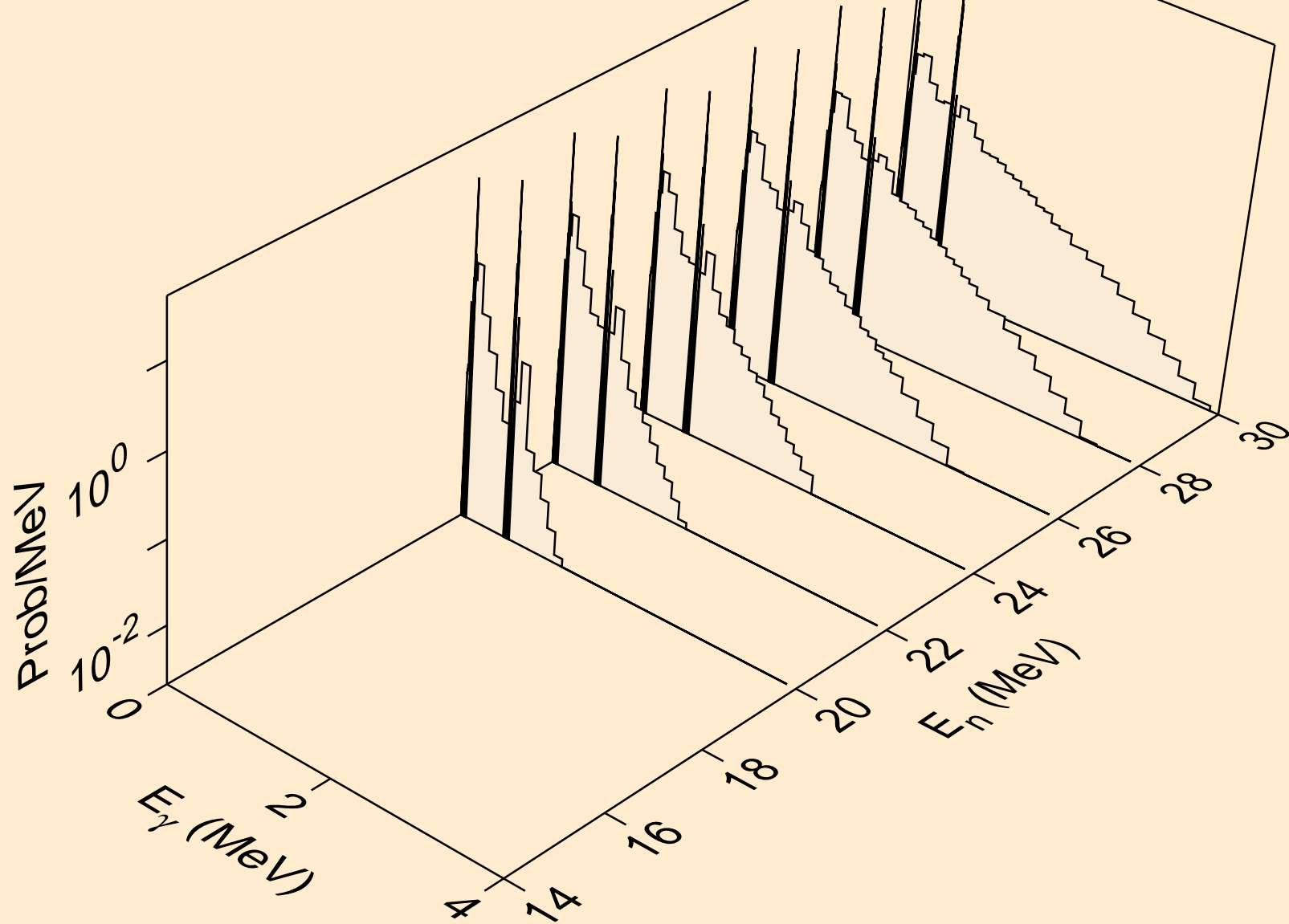
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



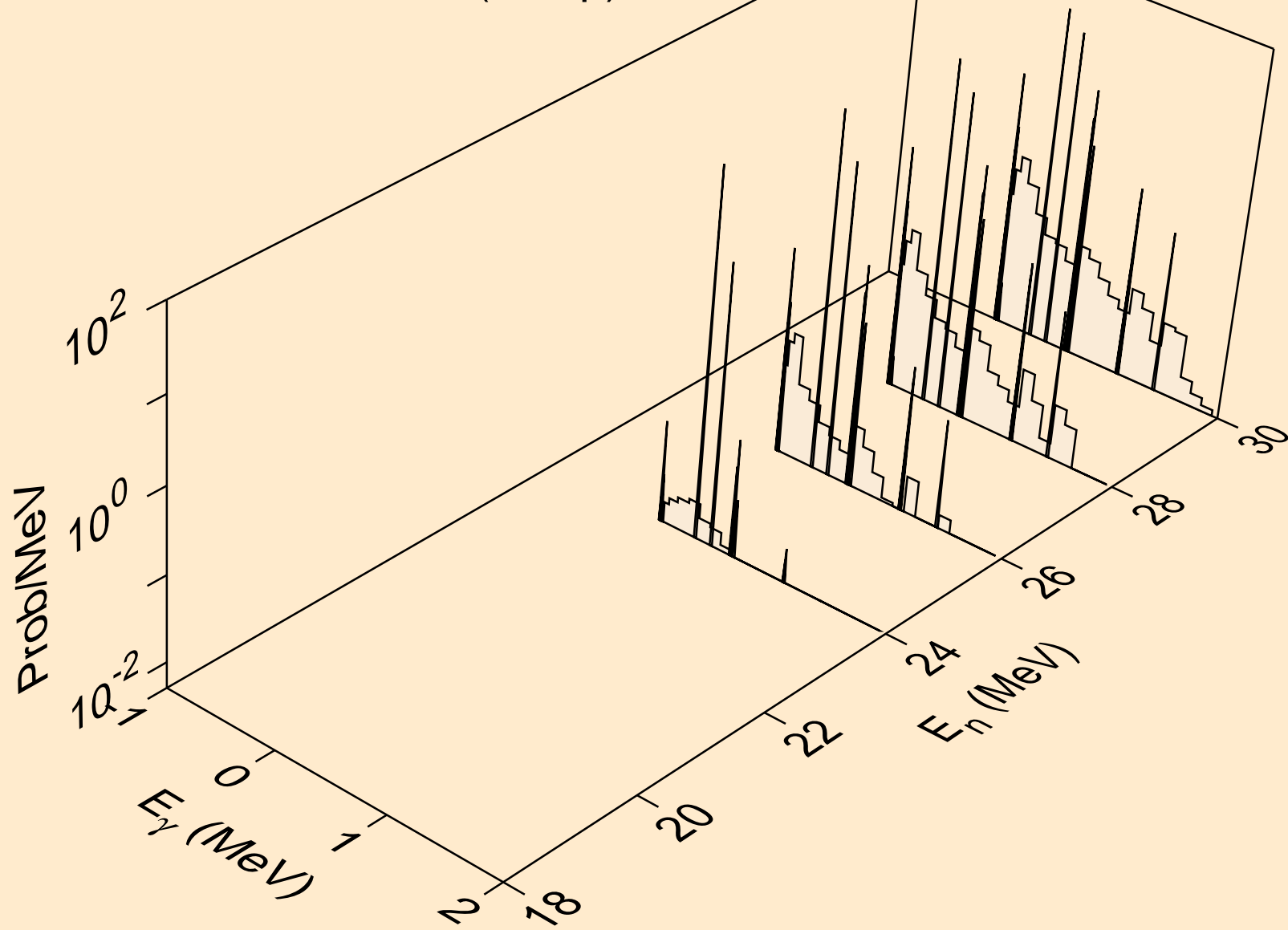
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



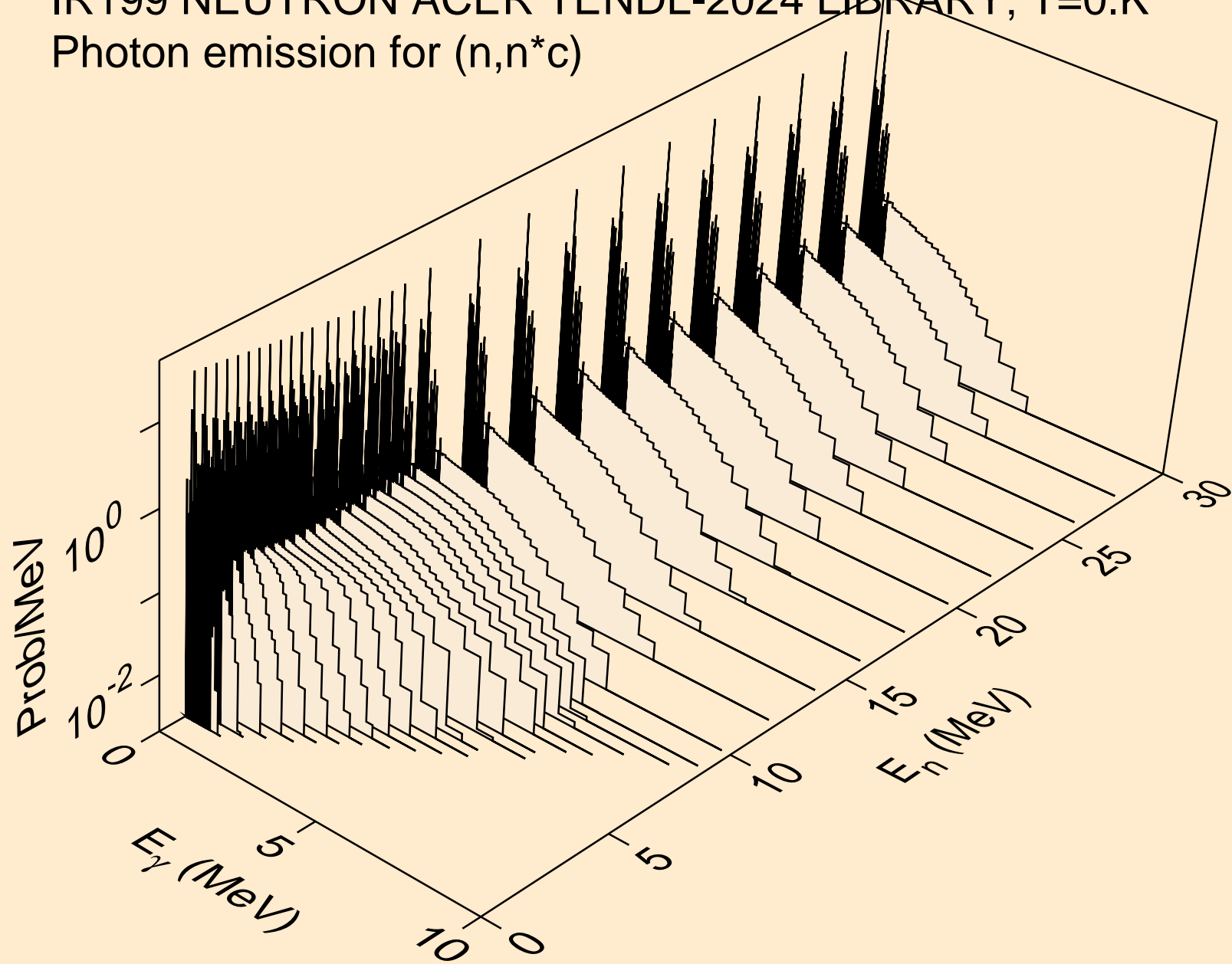
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



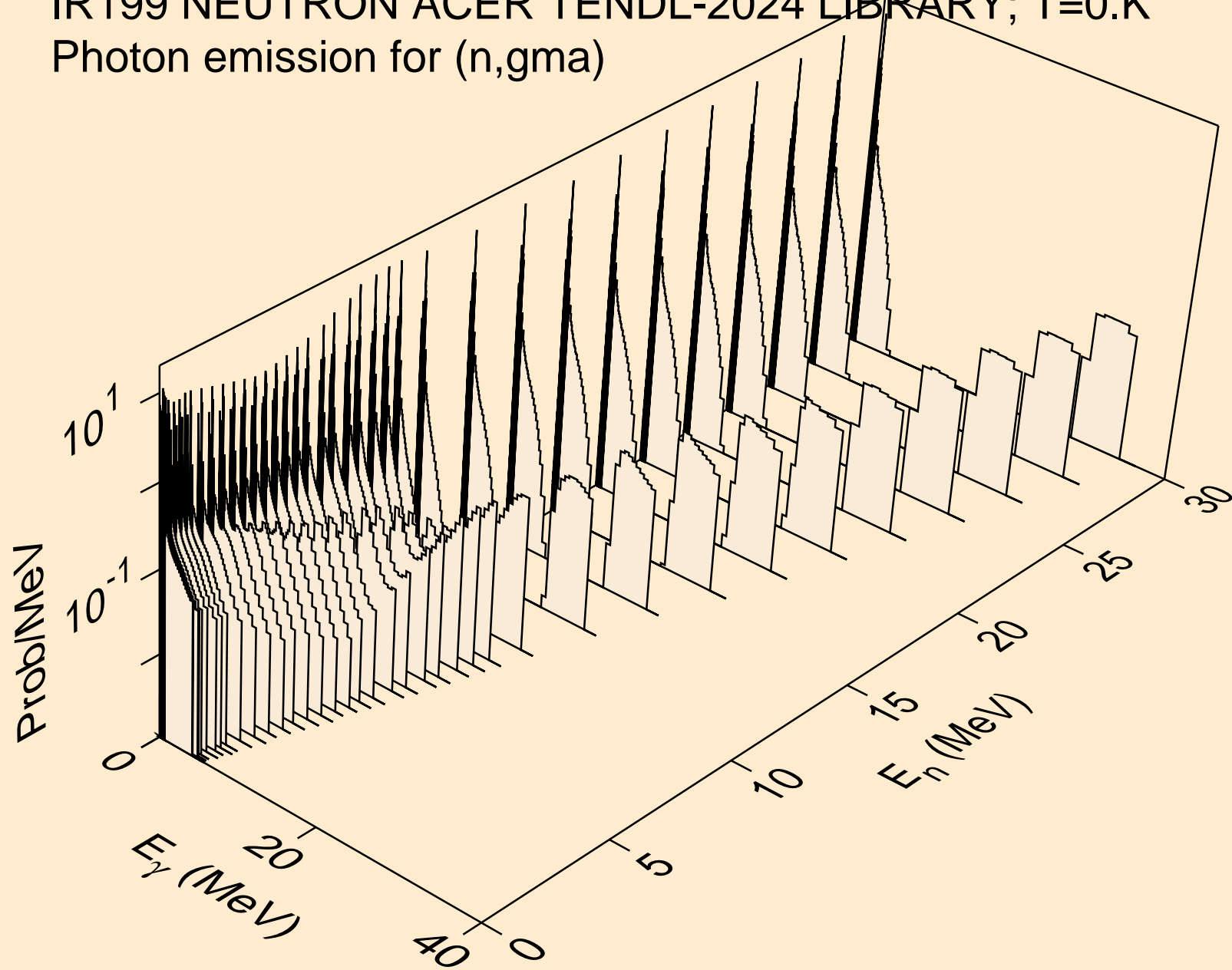
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

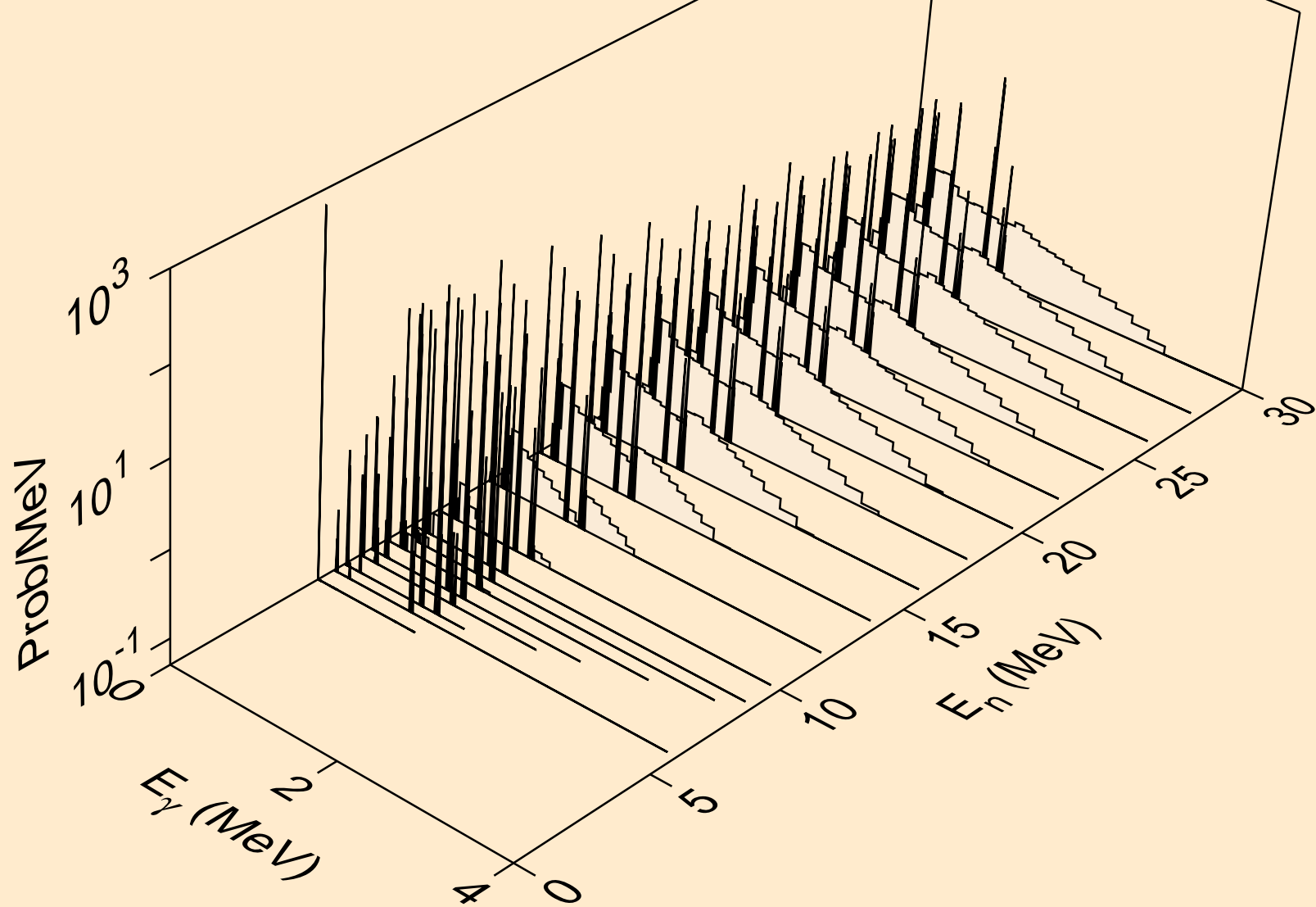


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)

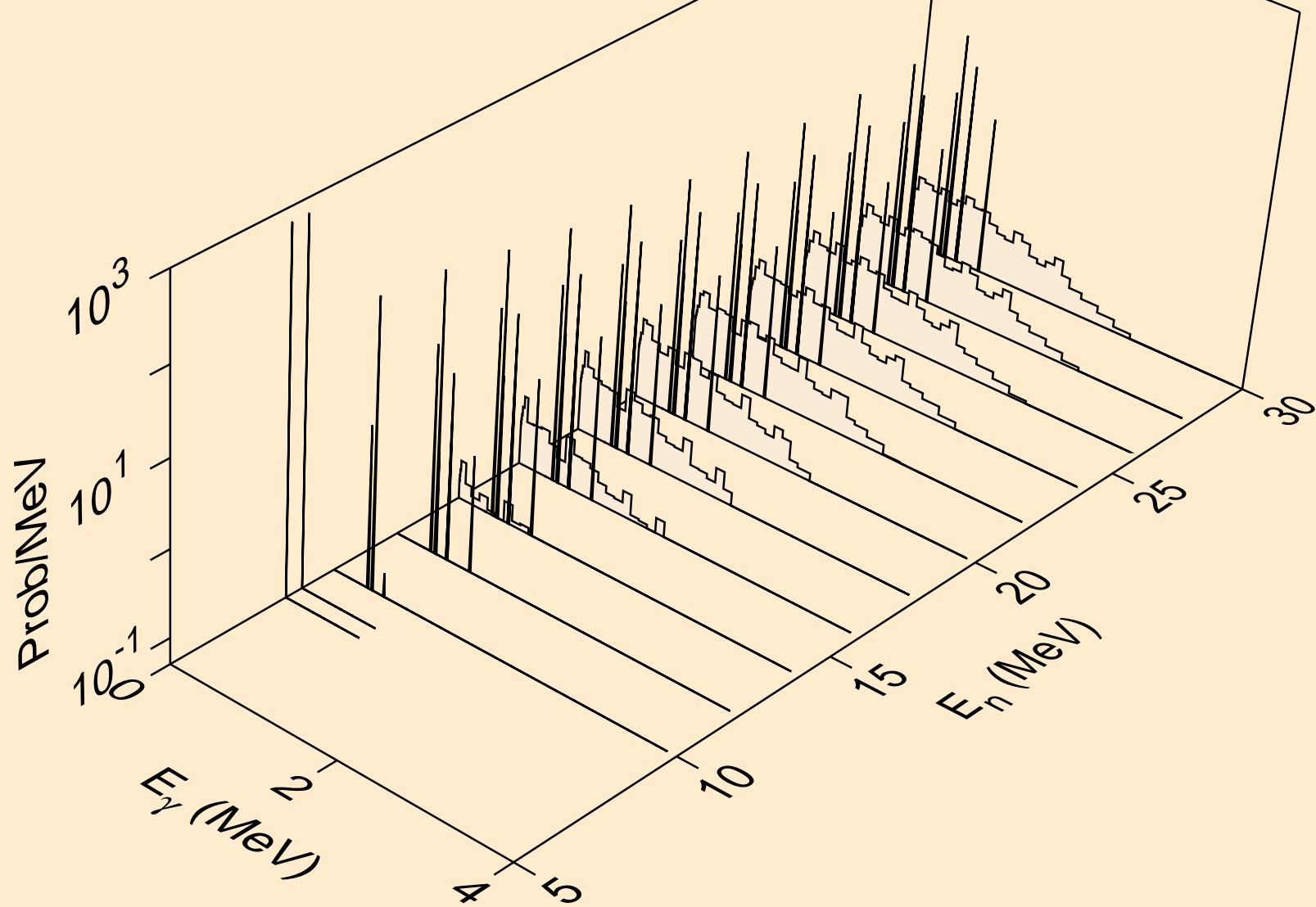




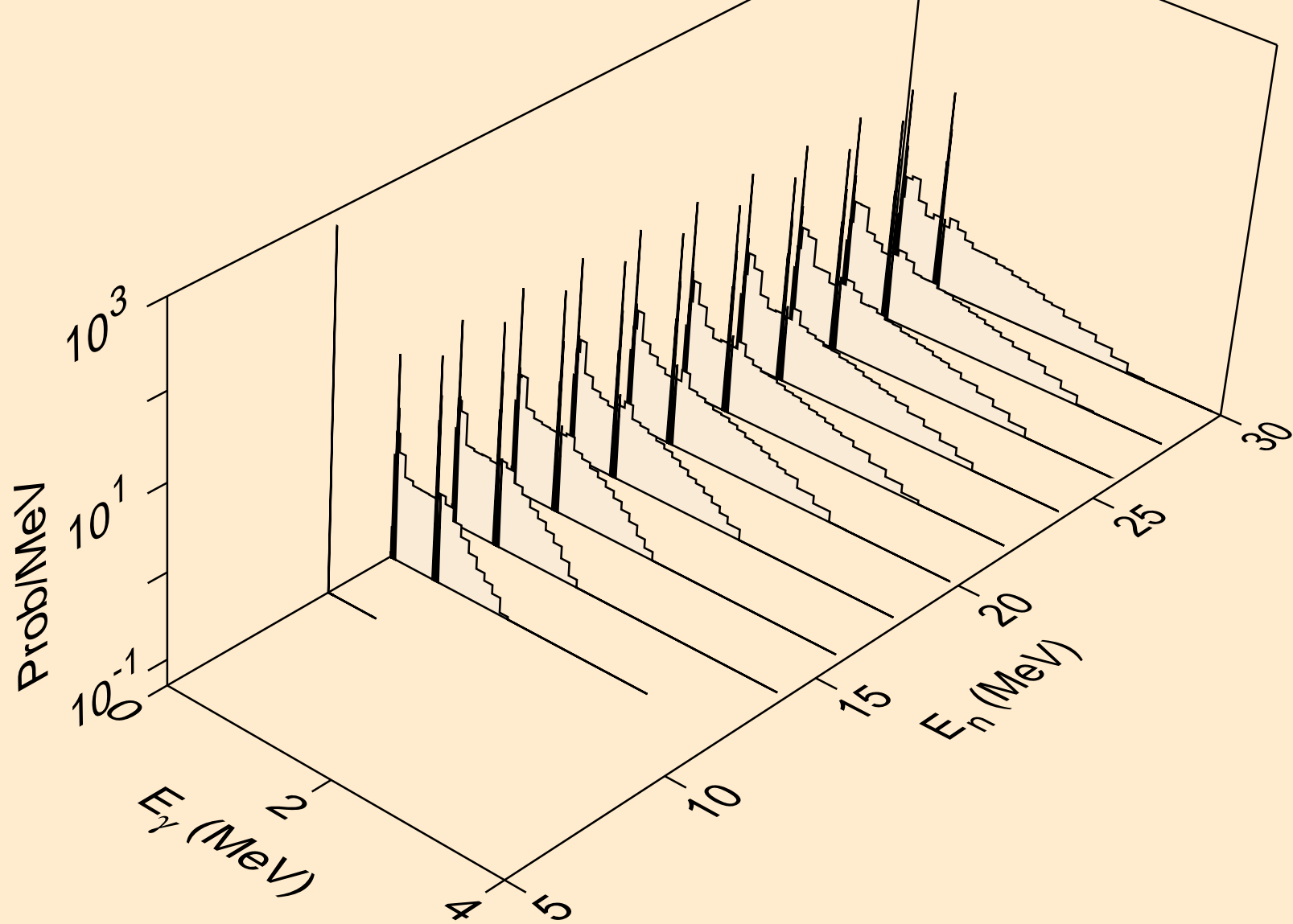
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



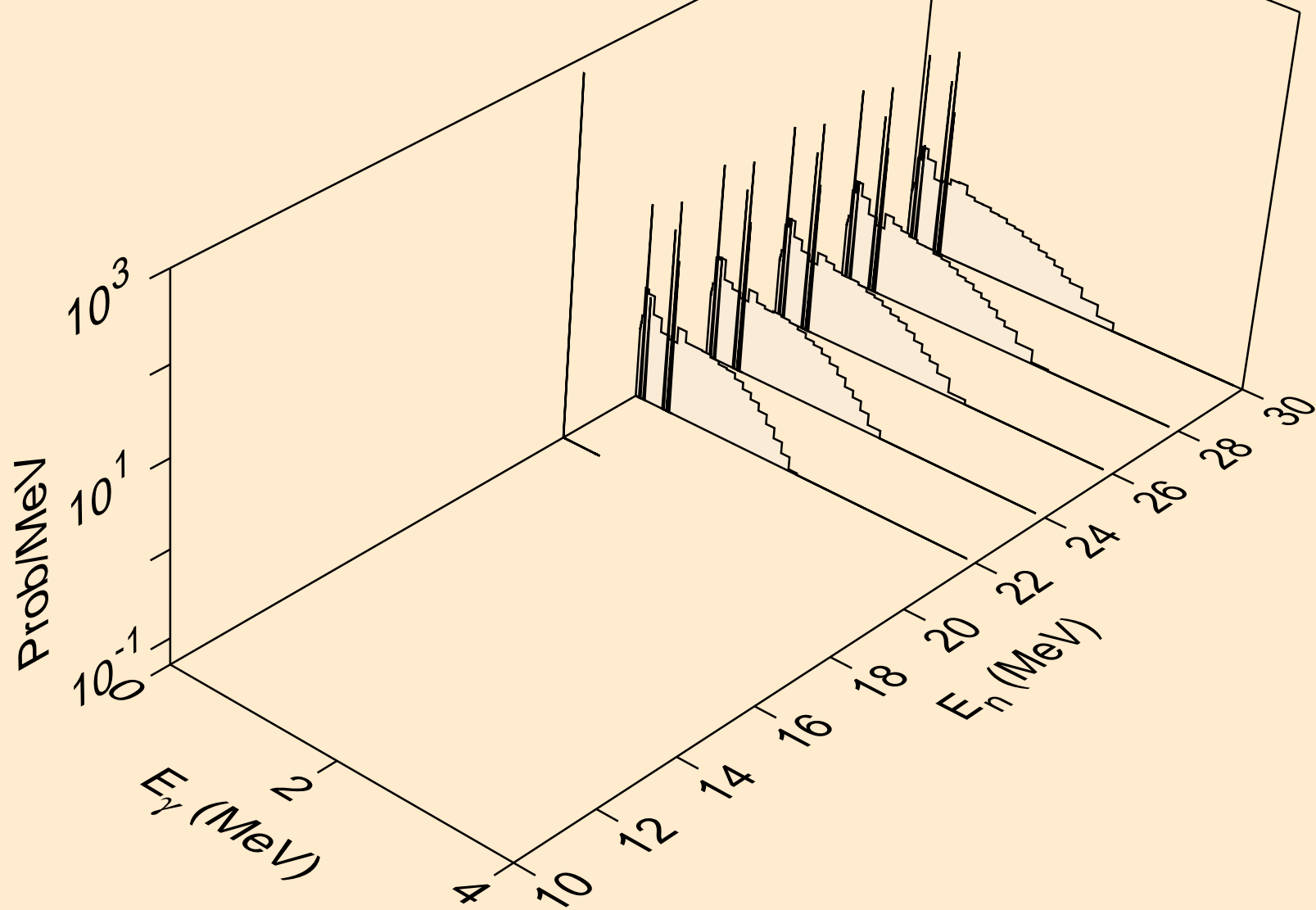
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Photon emission for (n,d)



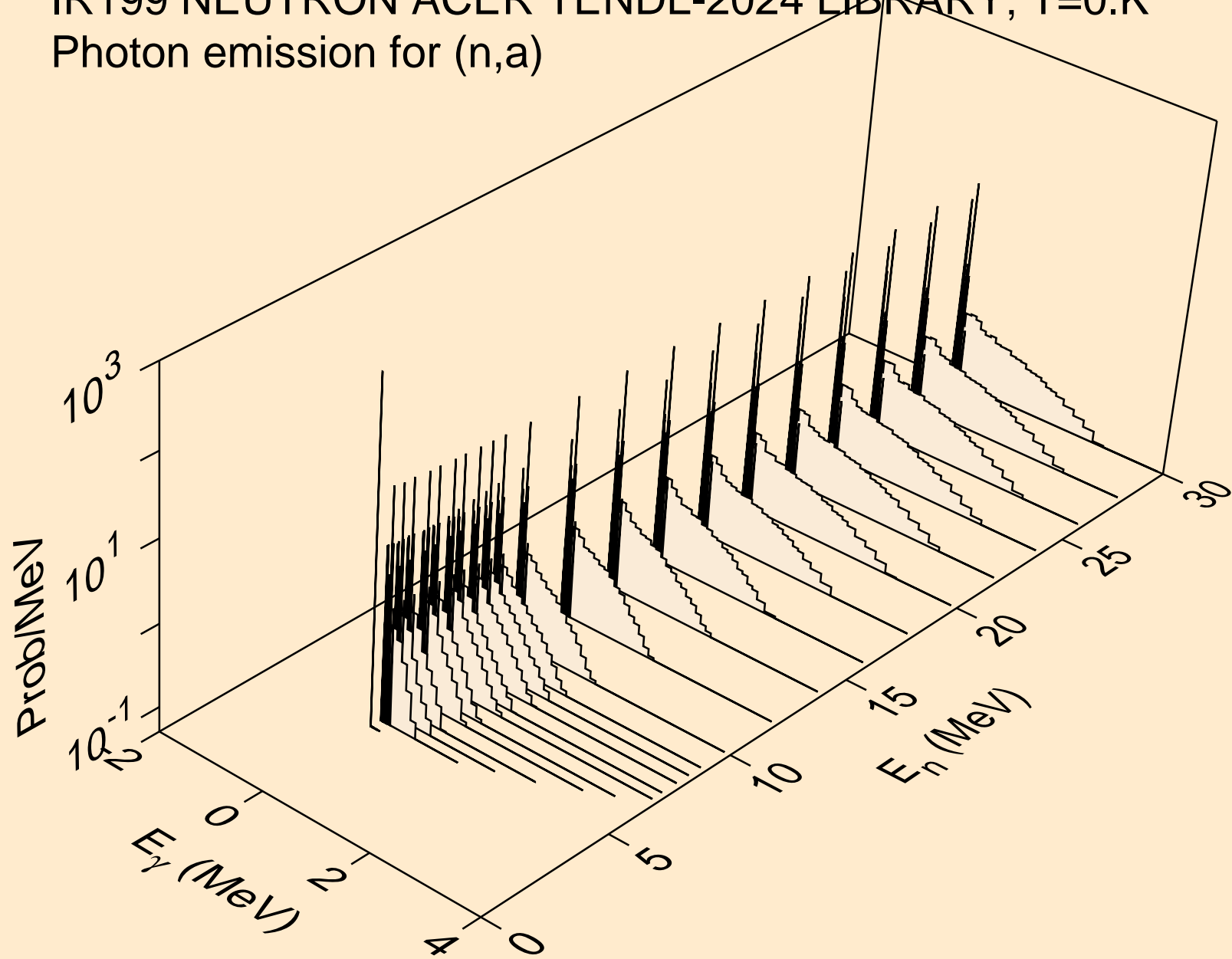
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Photon emission for (n,t)



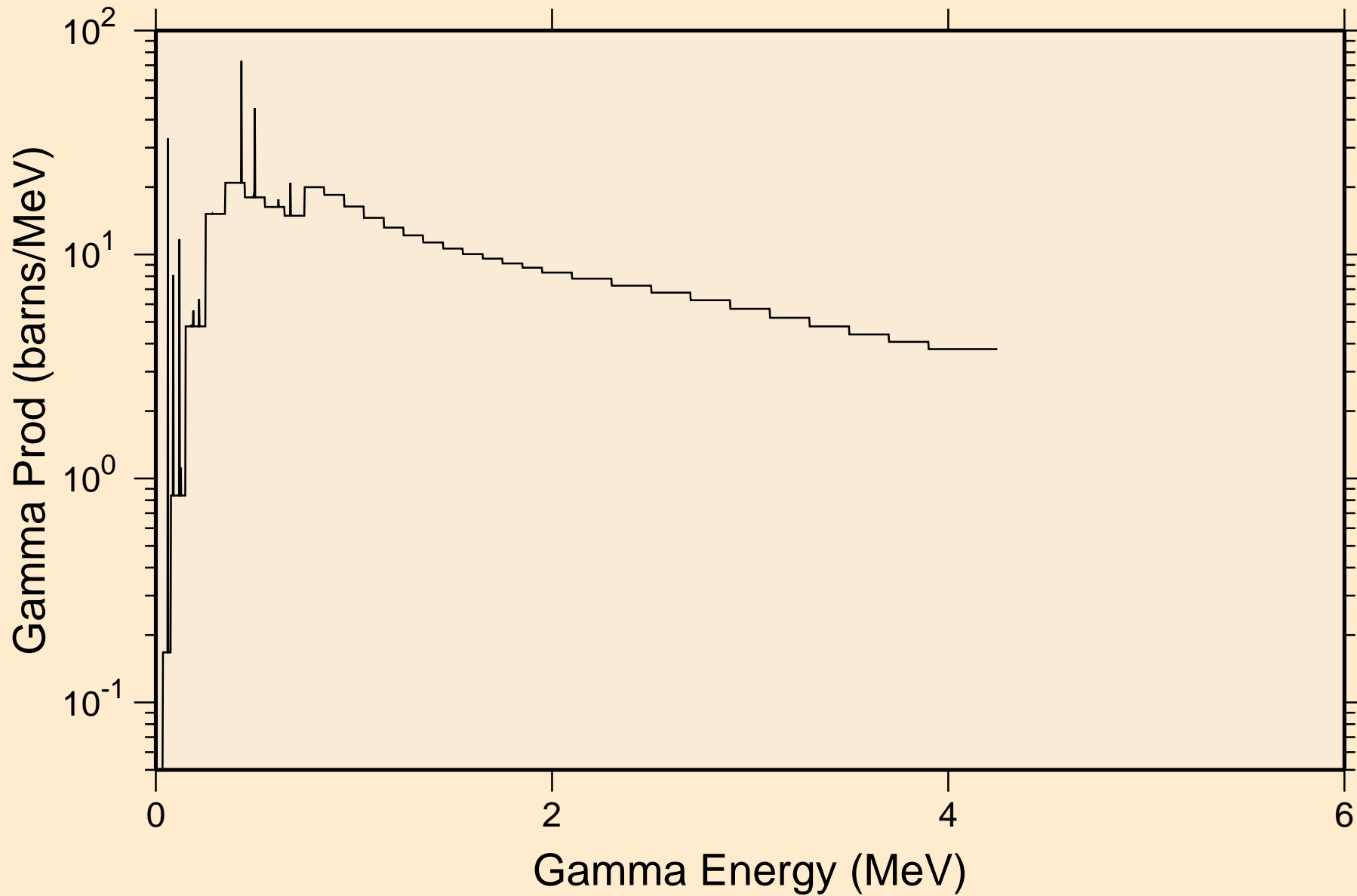
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,he3)



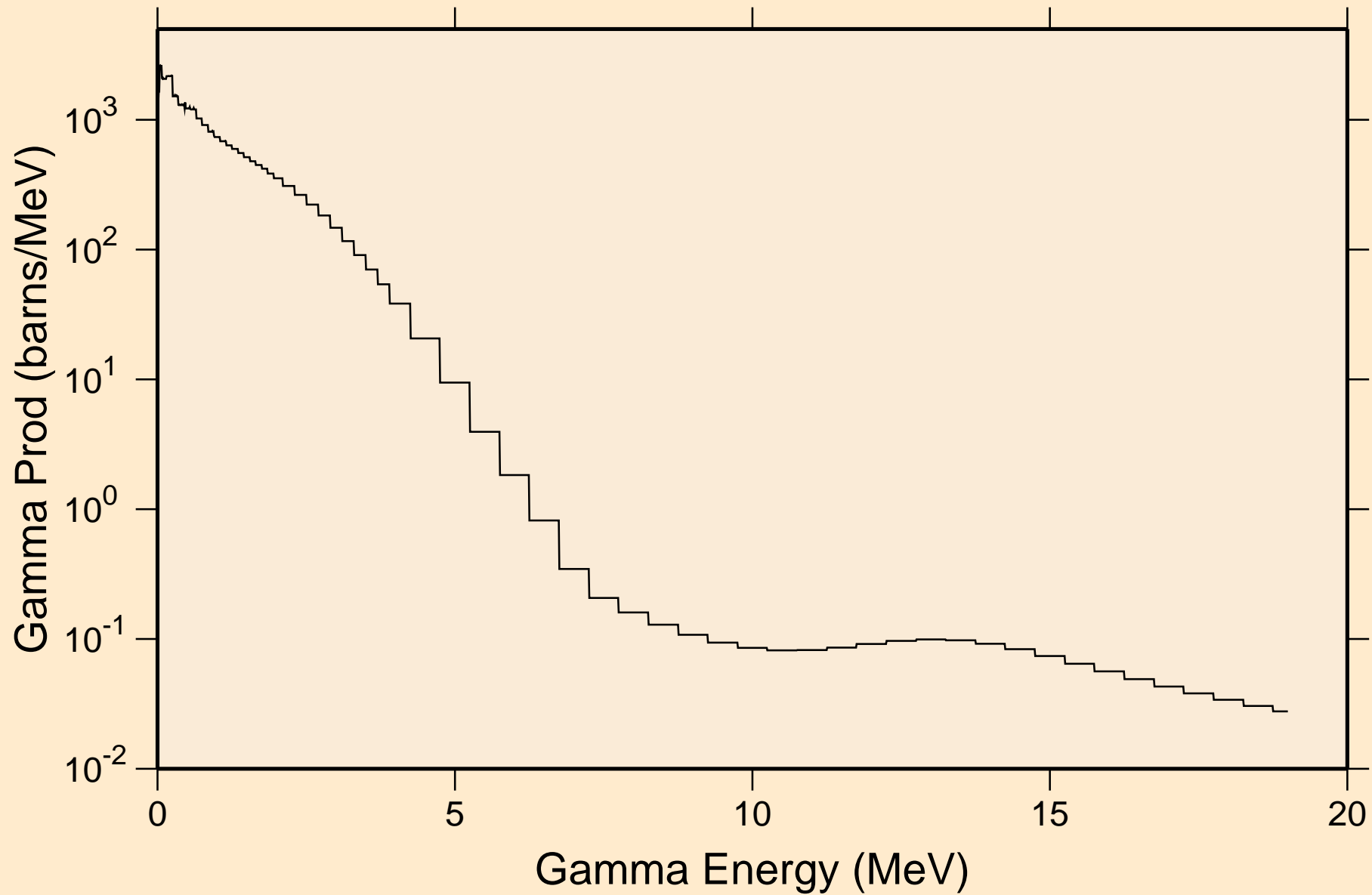
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

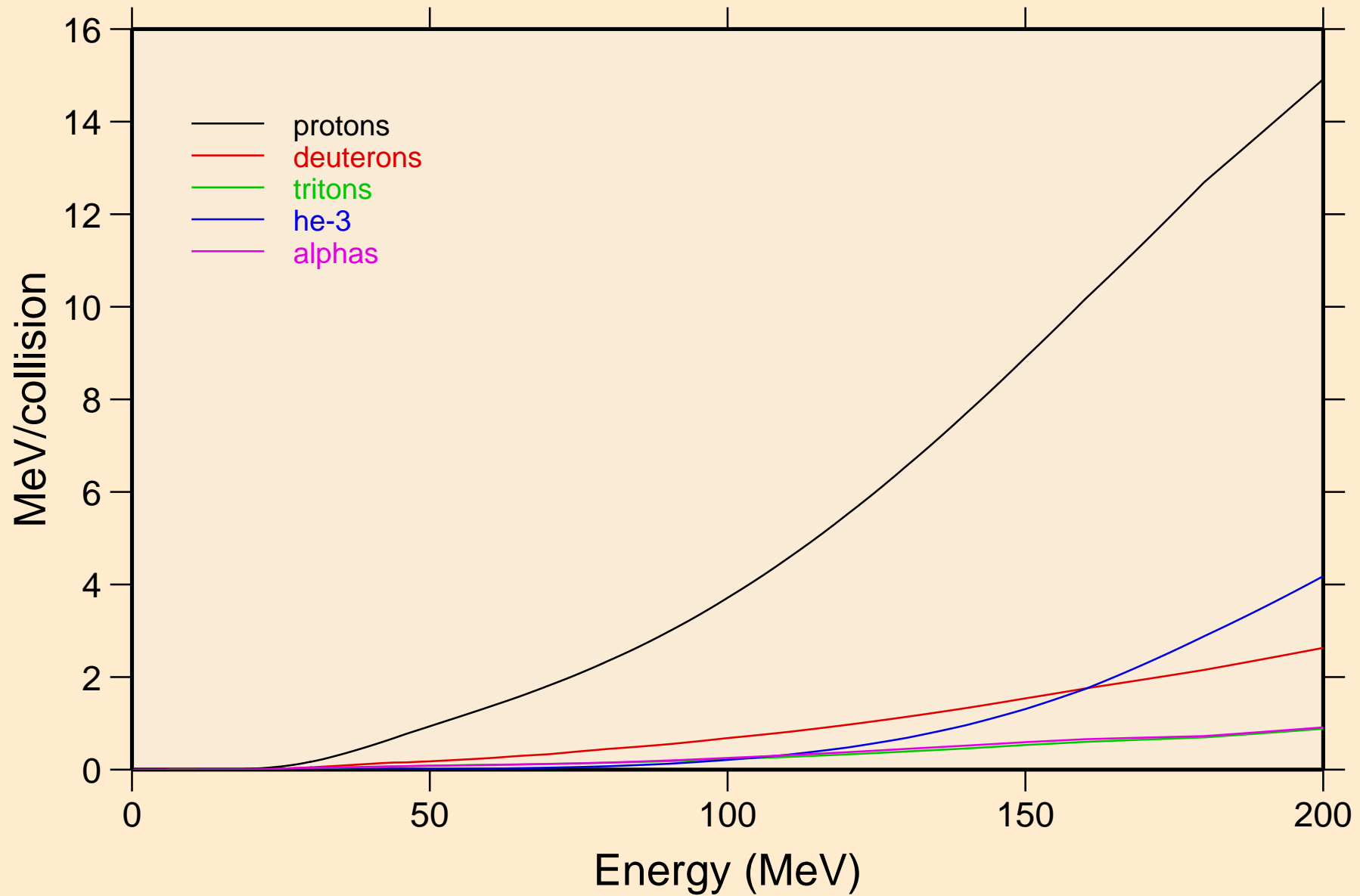


IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum



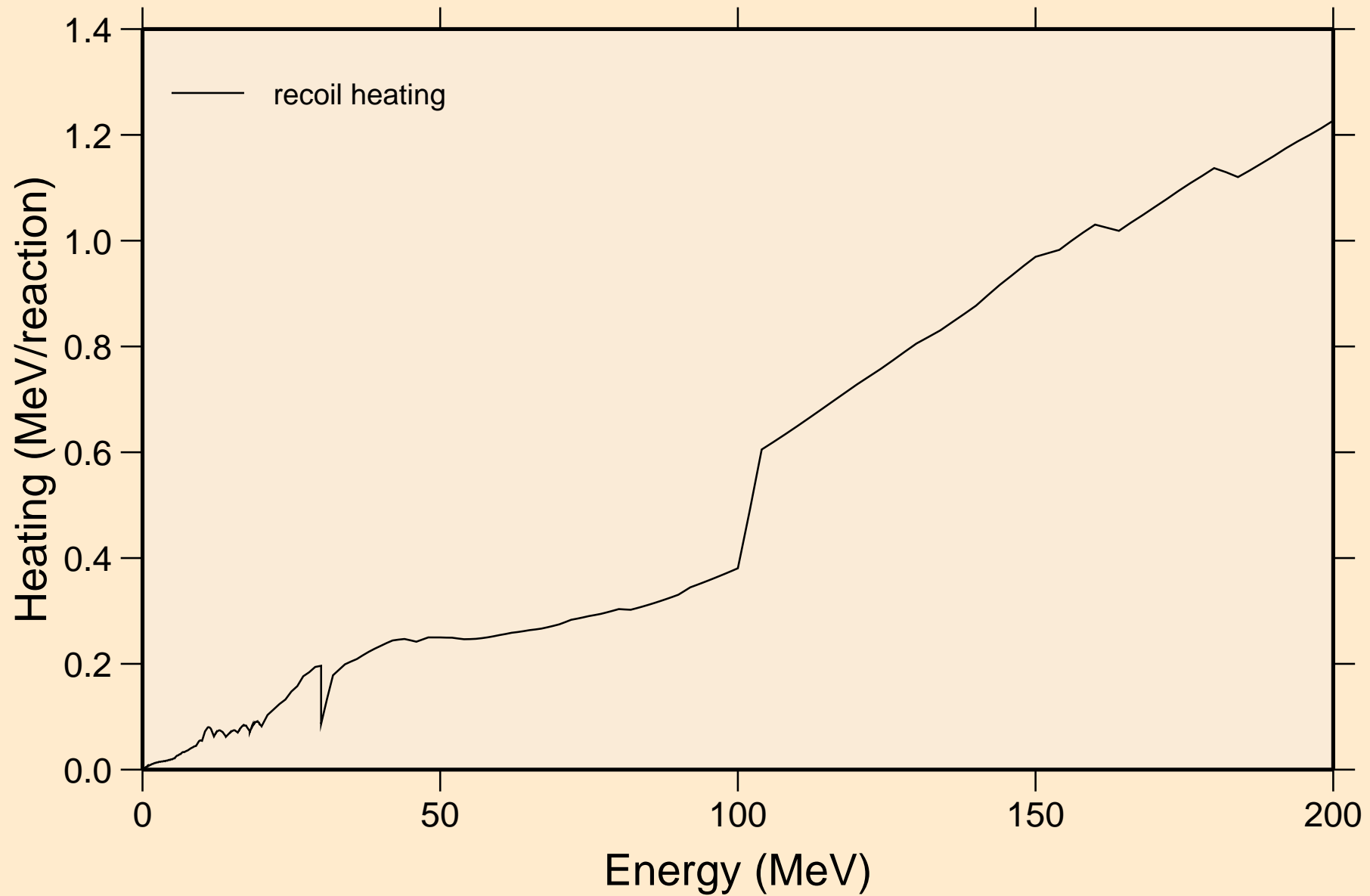
# IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

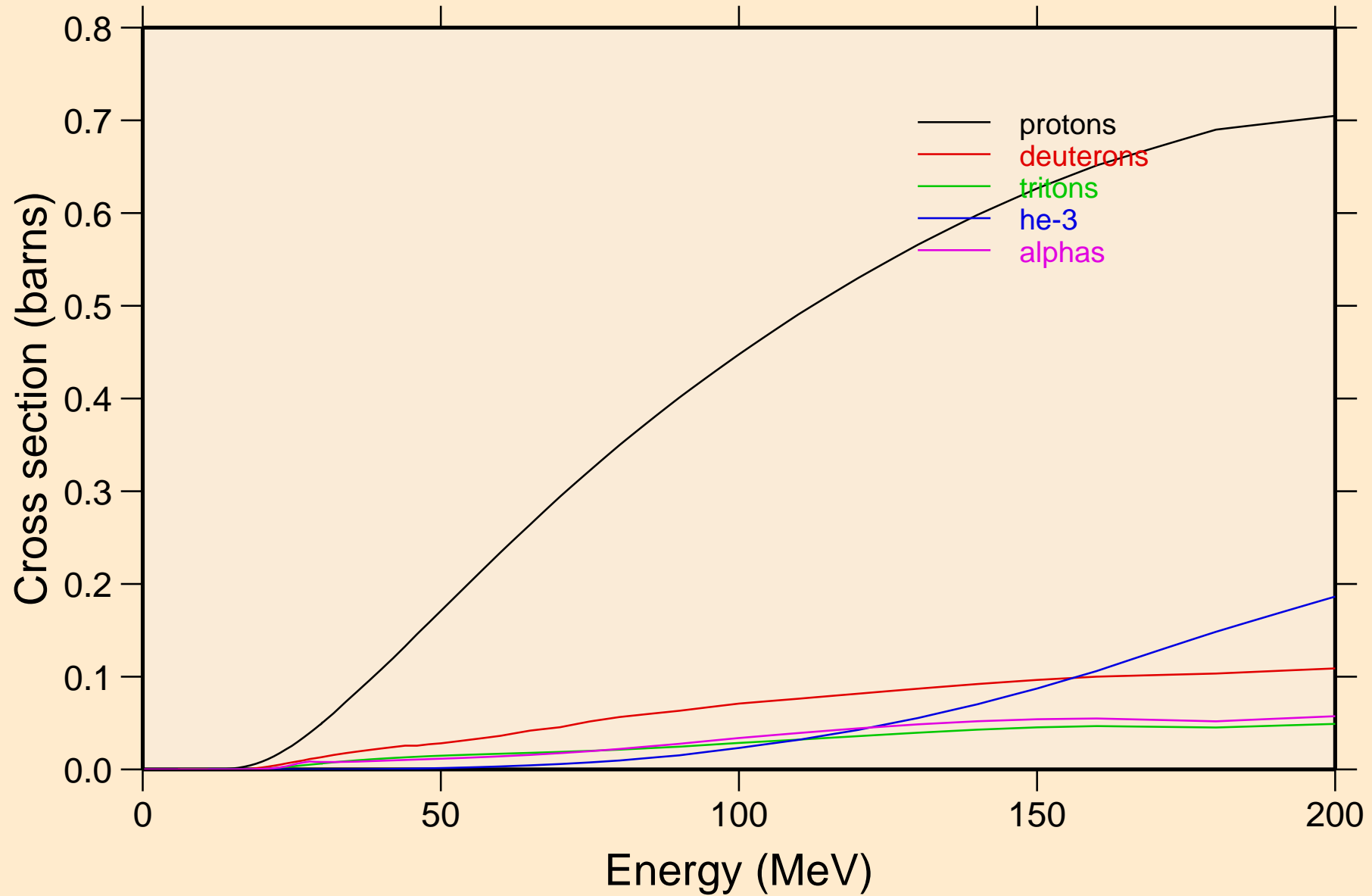




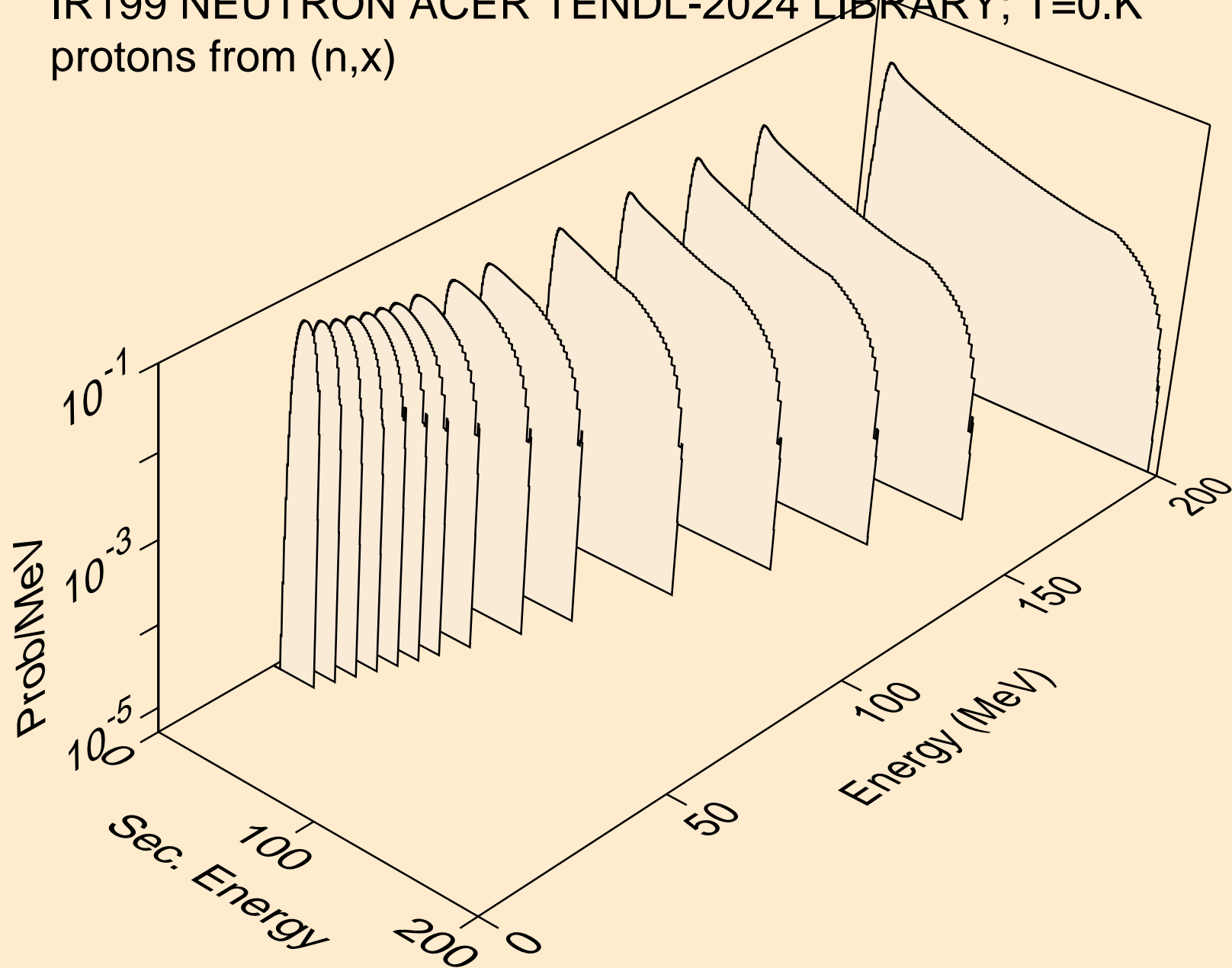
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Recoil Heating



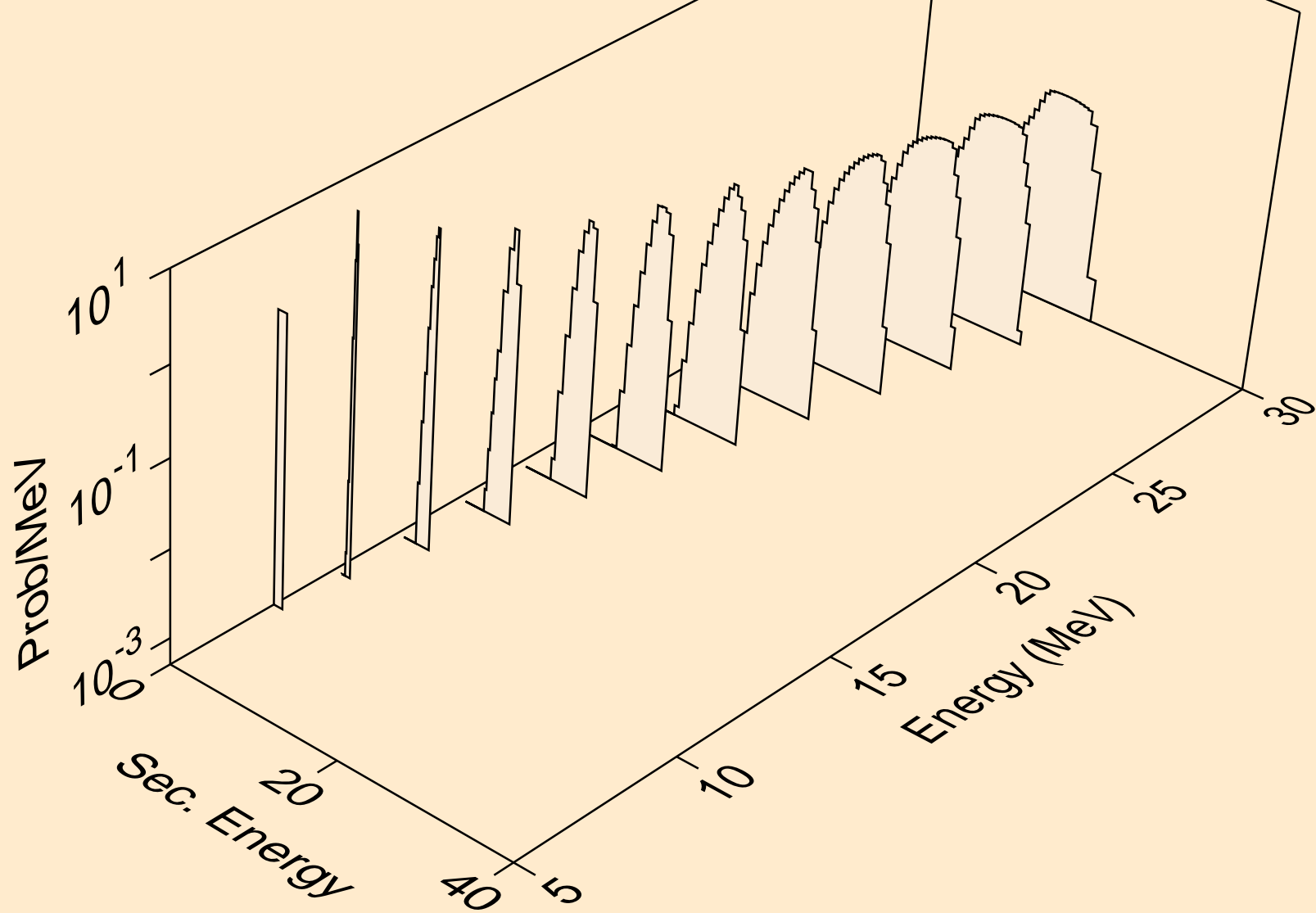
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Particle production cross sections



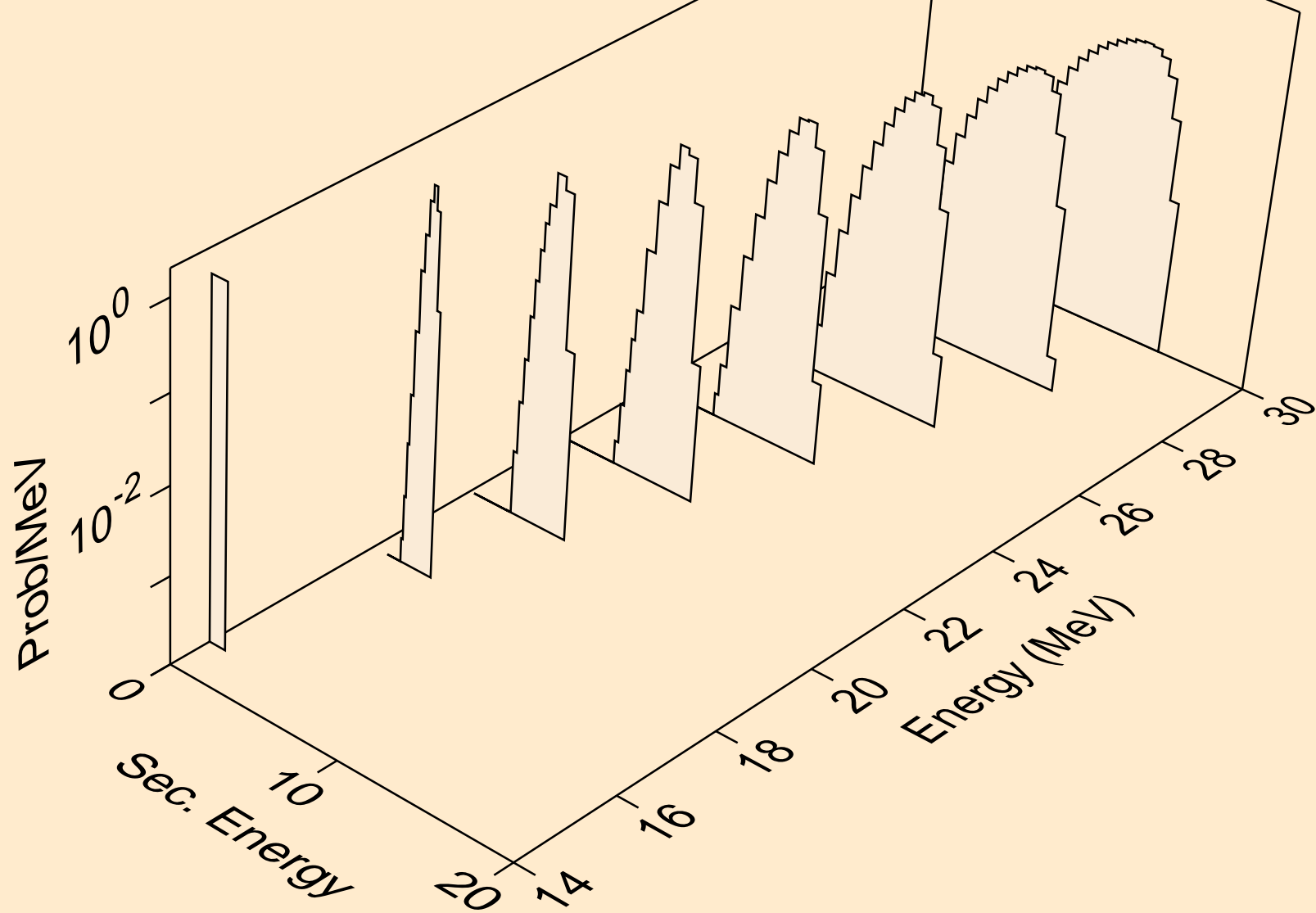
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protons from (n,x)



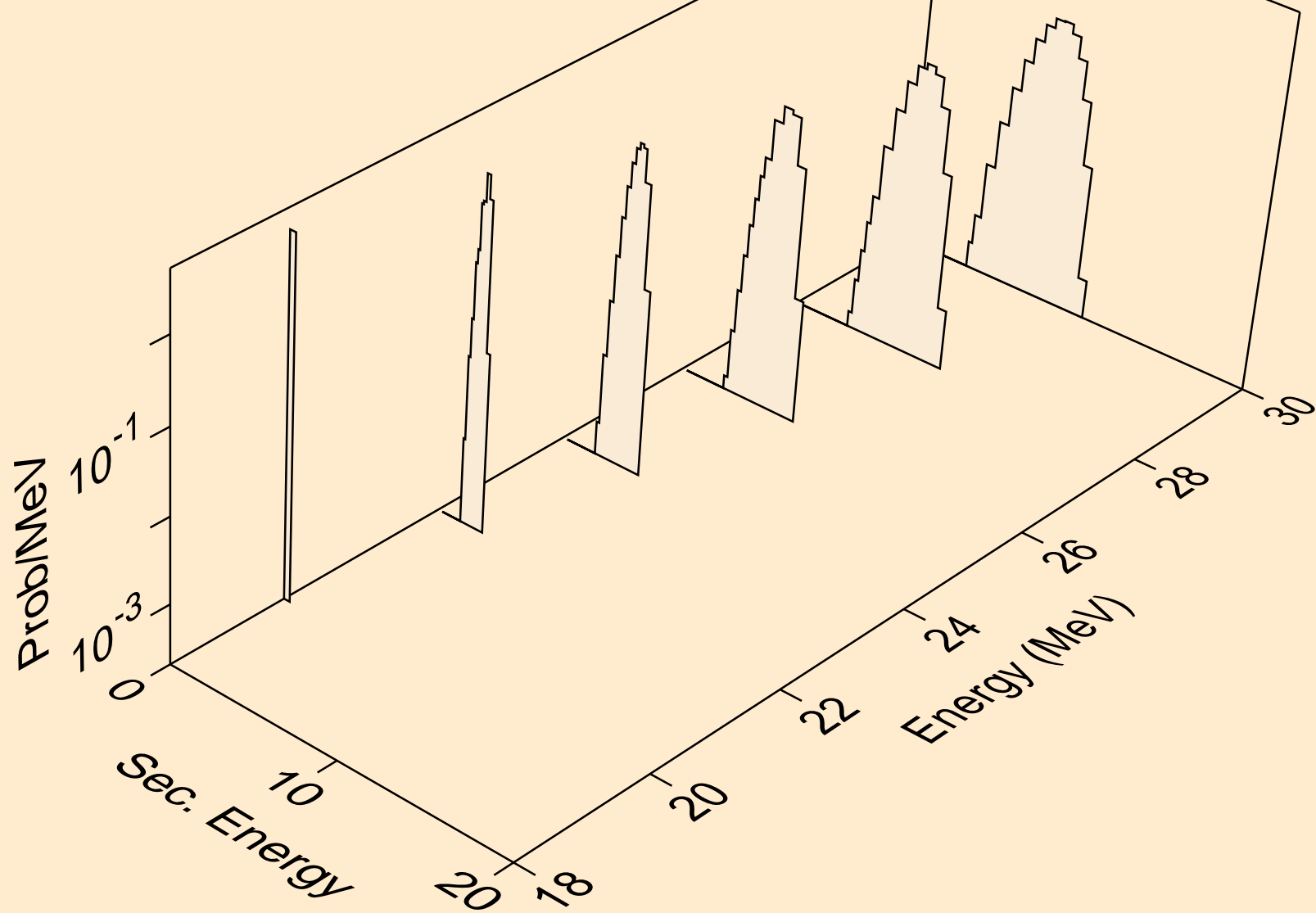
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protons from (n,n\*)p



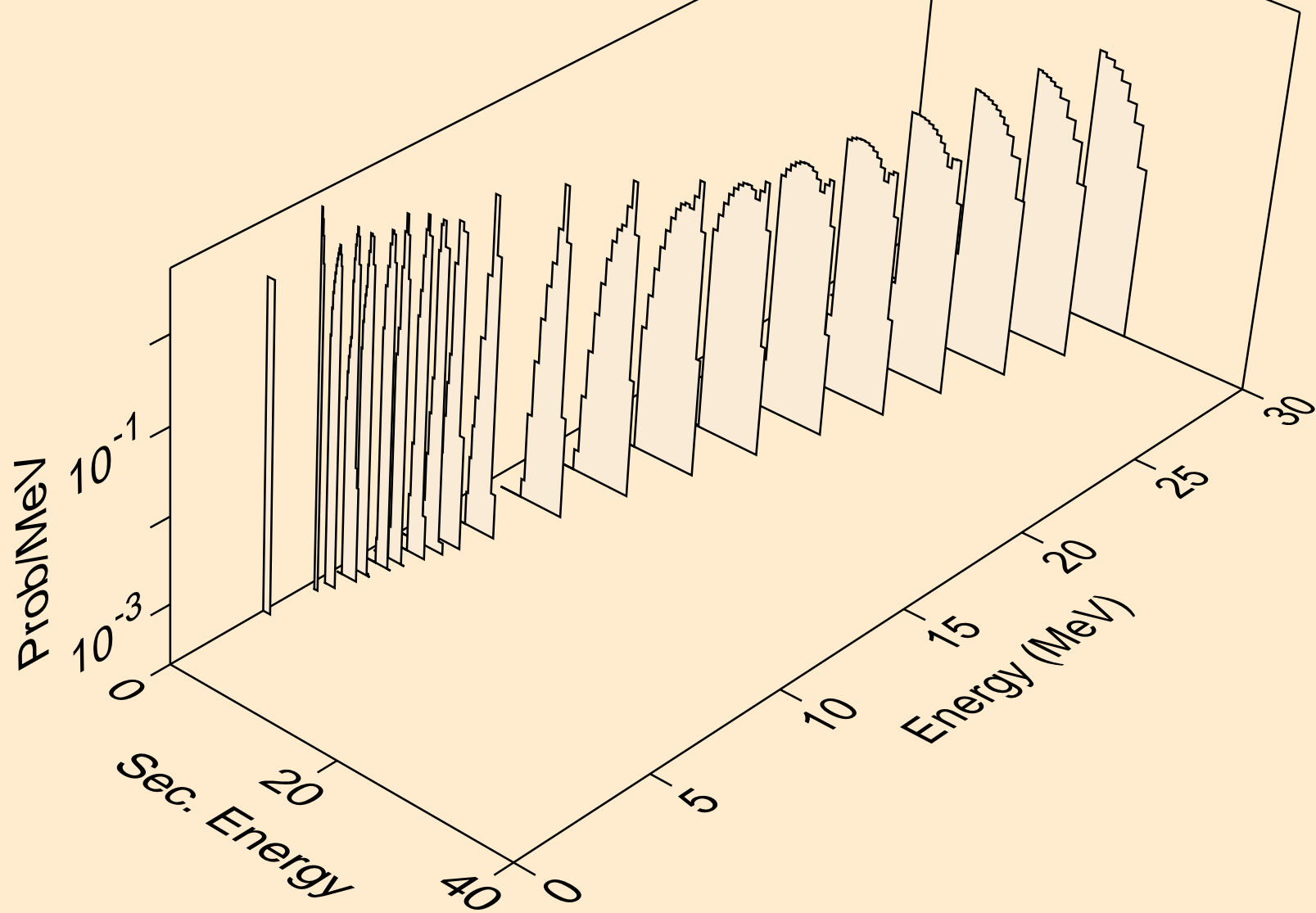
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protons from (n,2np)



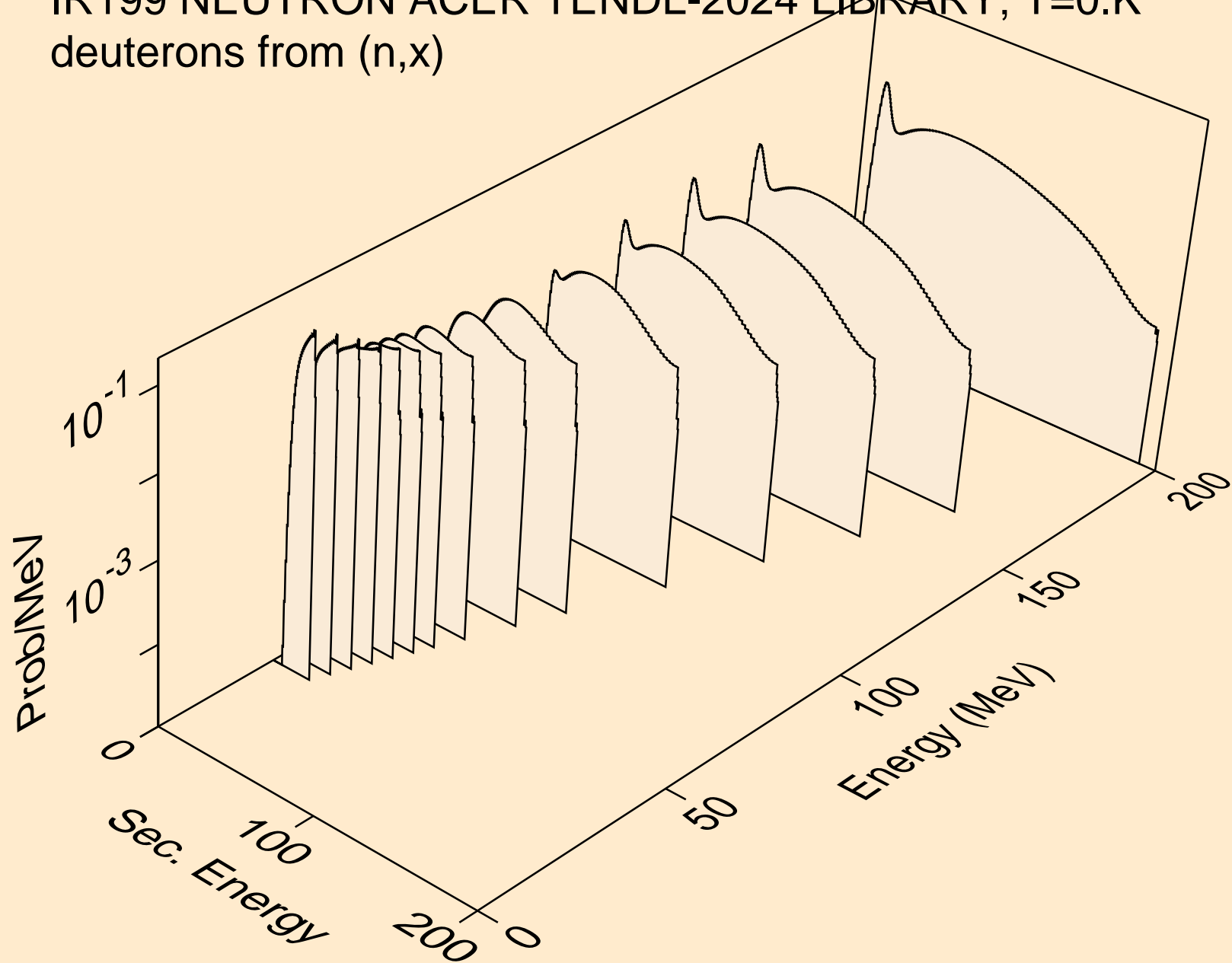
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,3np)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

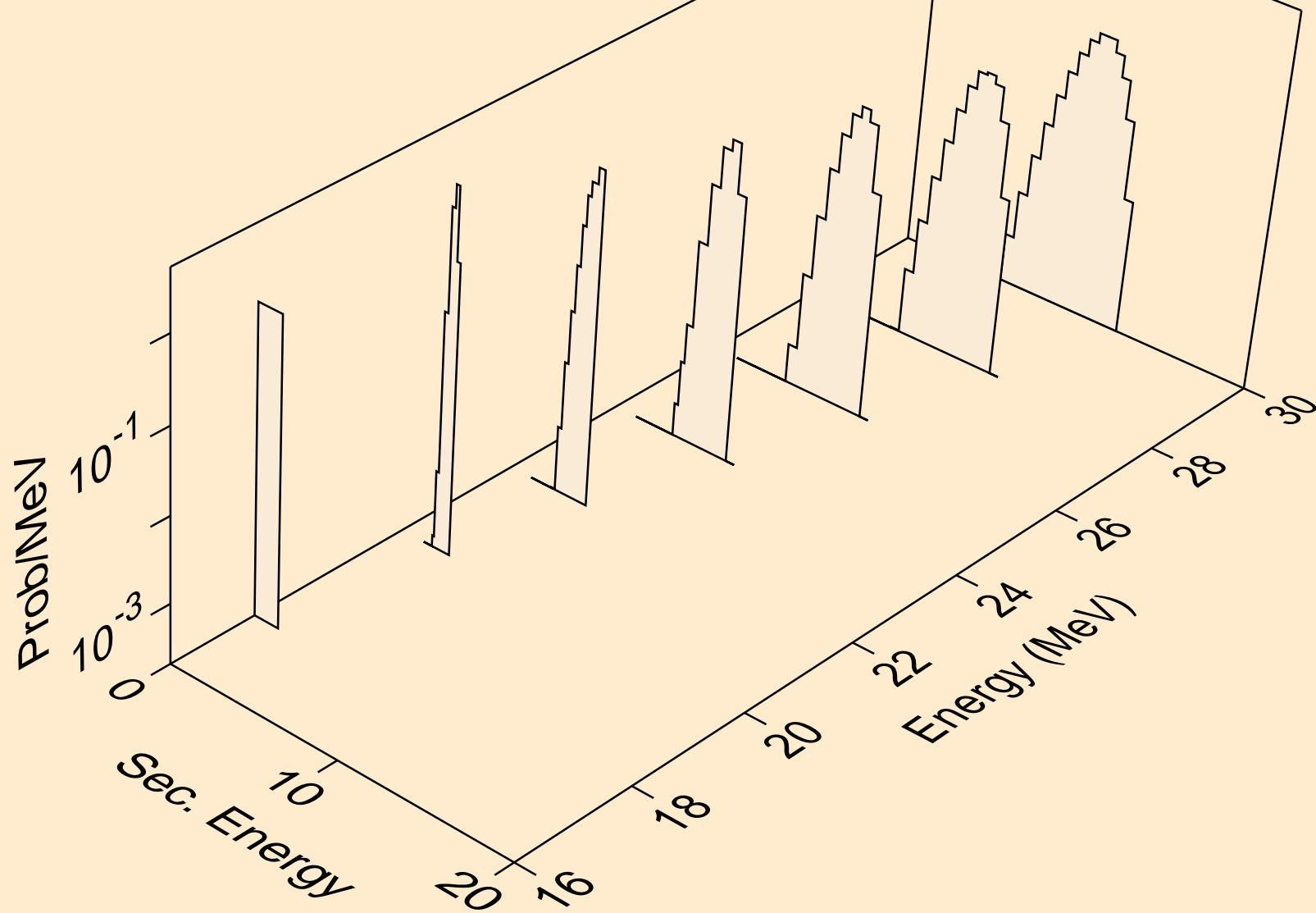


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deuterons from (n,x)

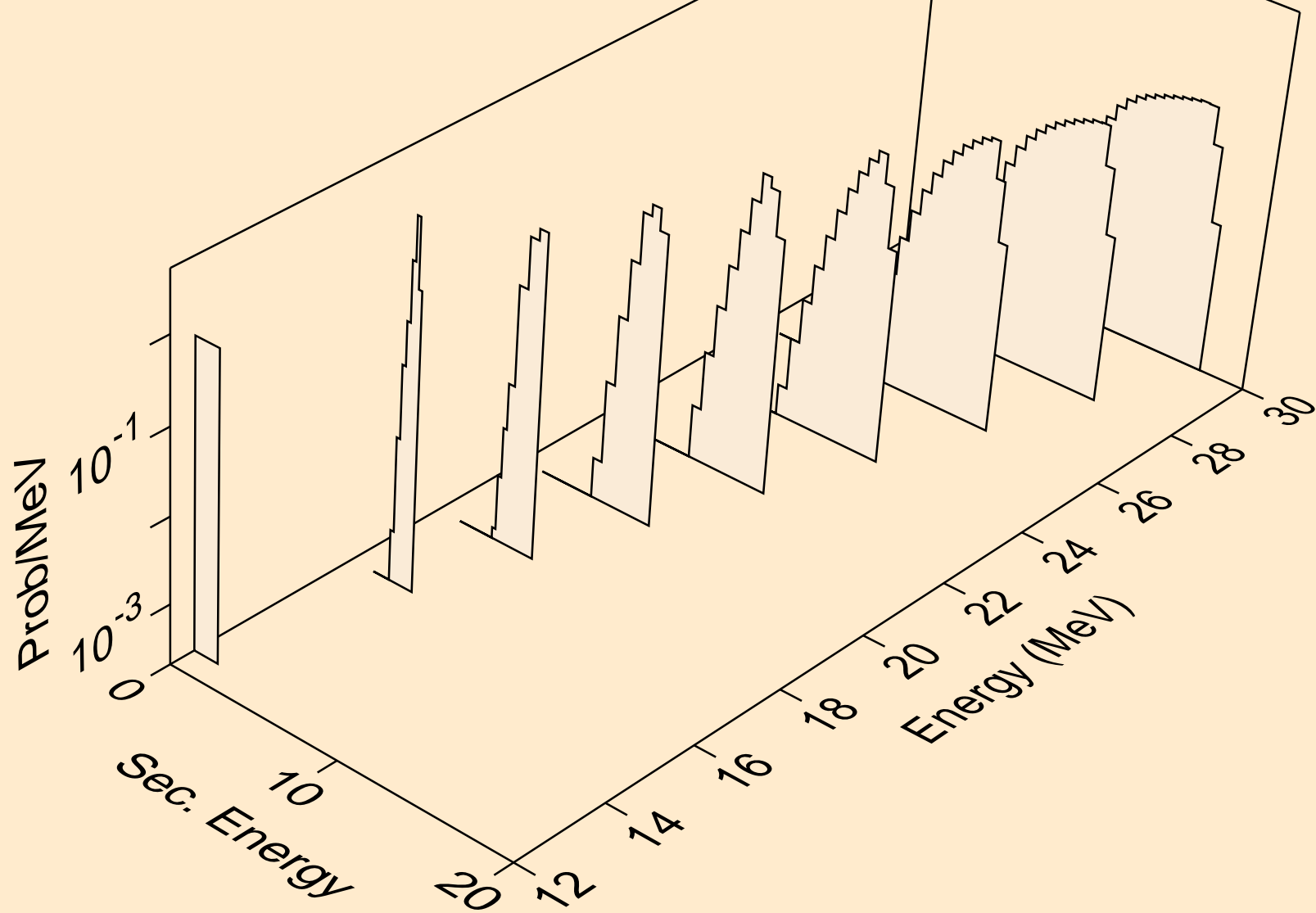




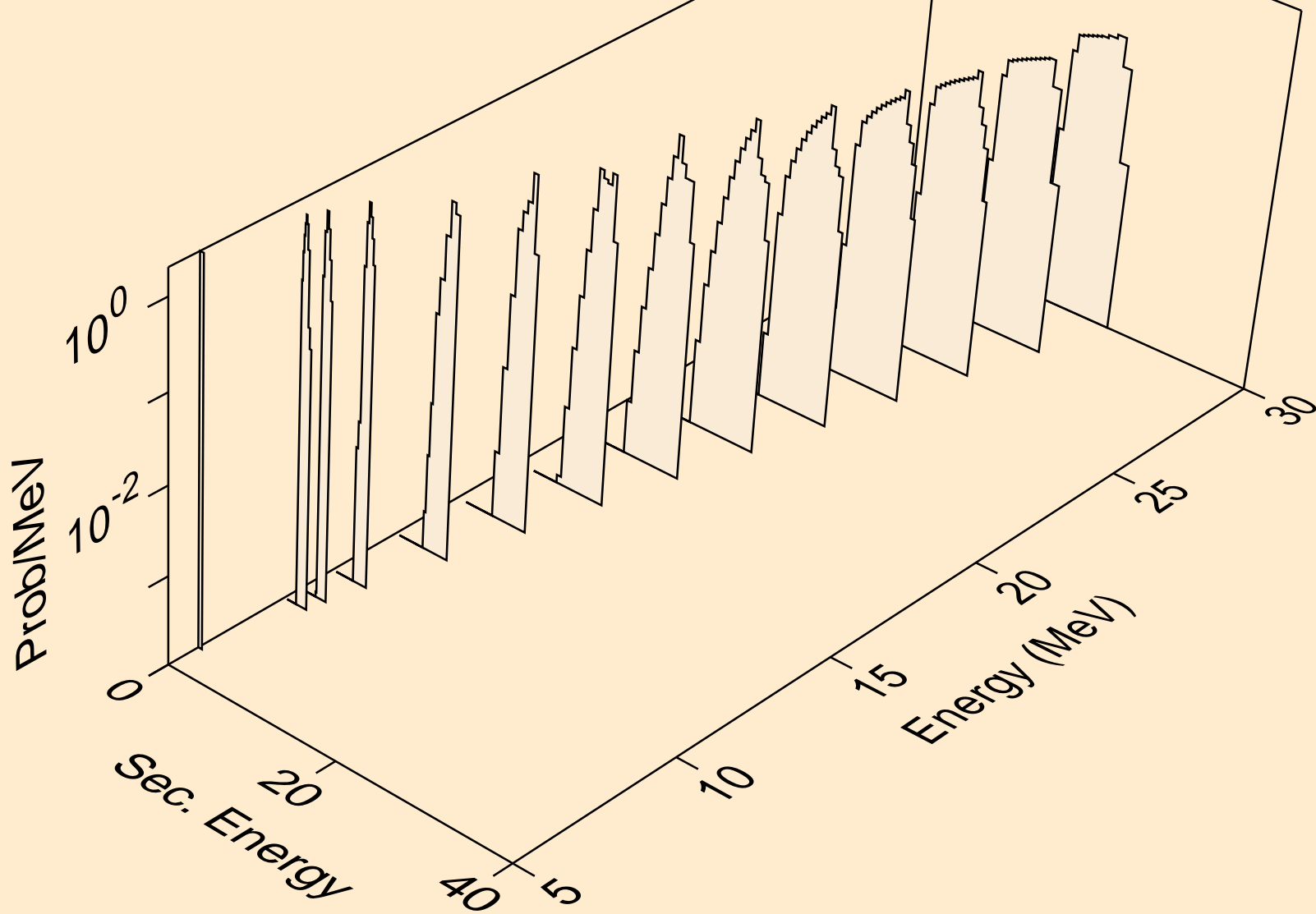
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deuterons from (n,2nd)



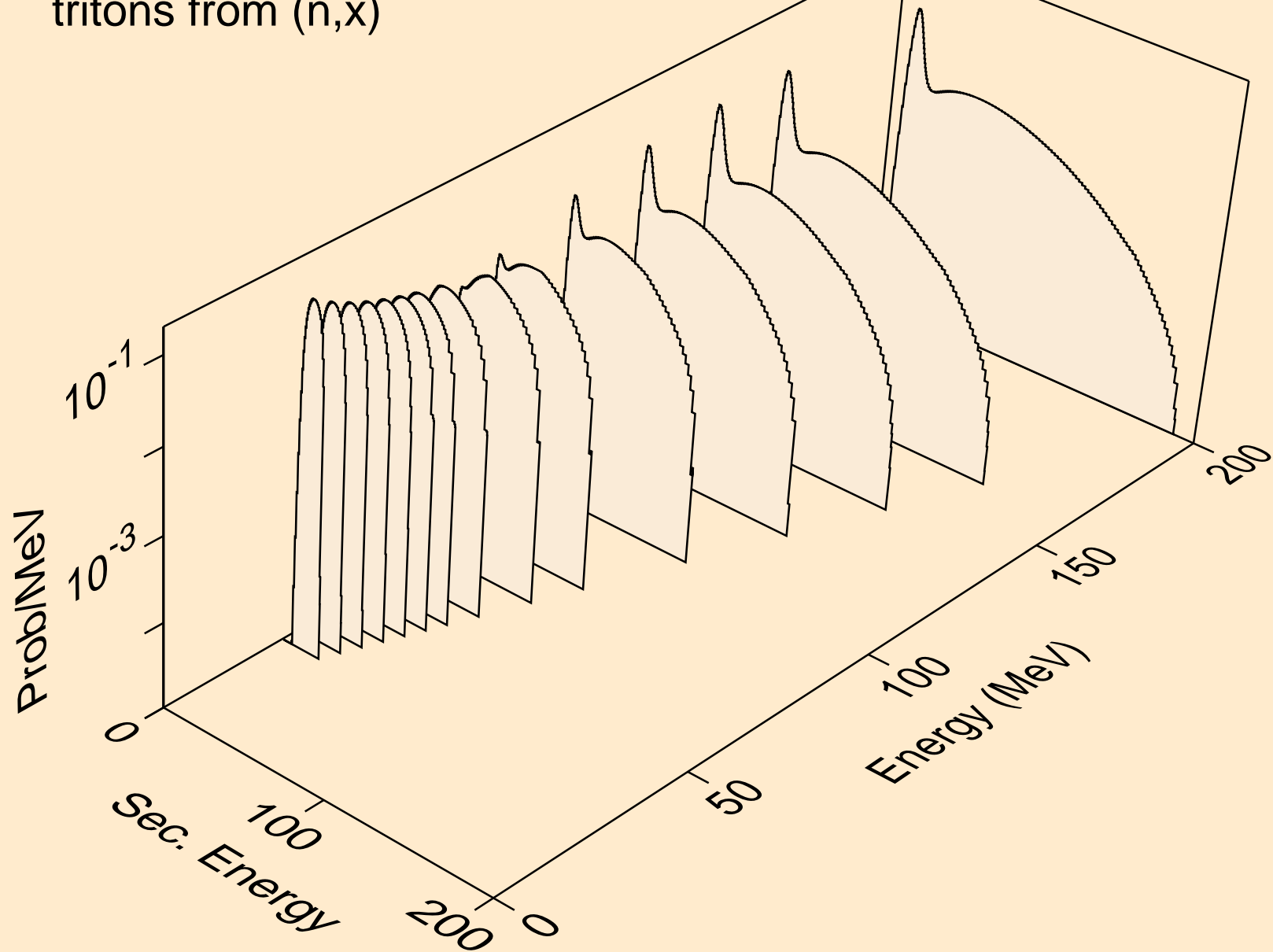
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deuterons from (n,n\*)d



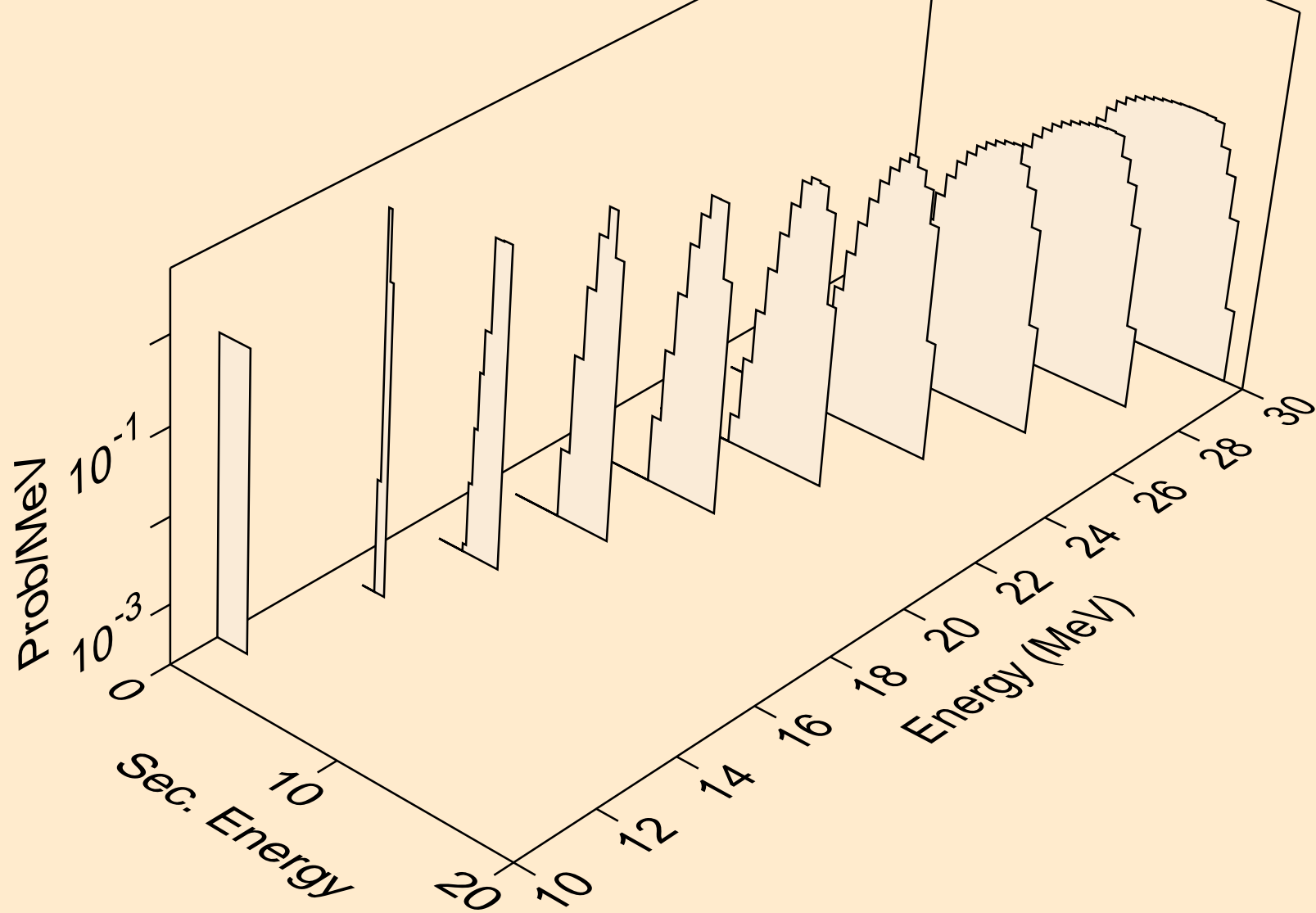
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deuterons from (n,d)



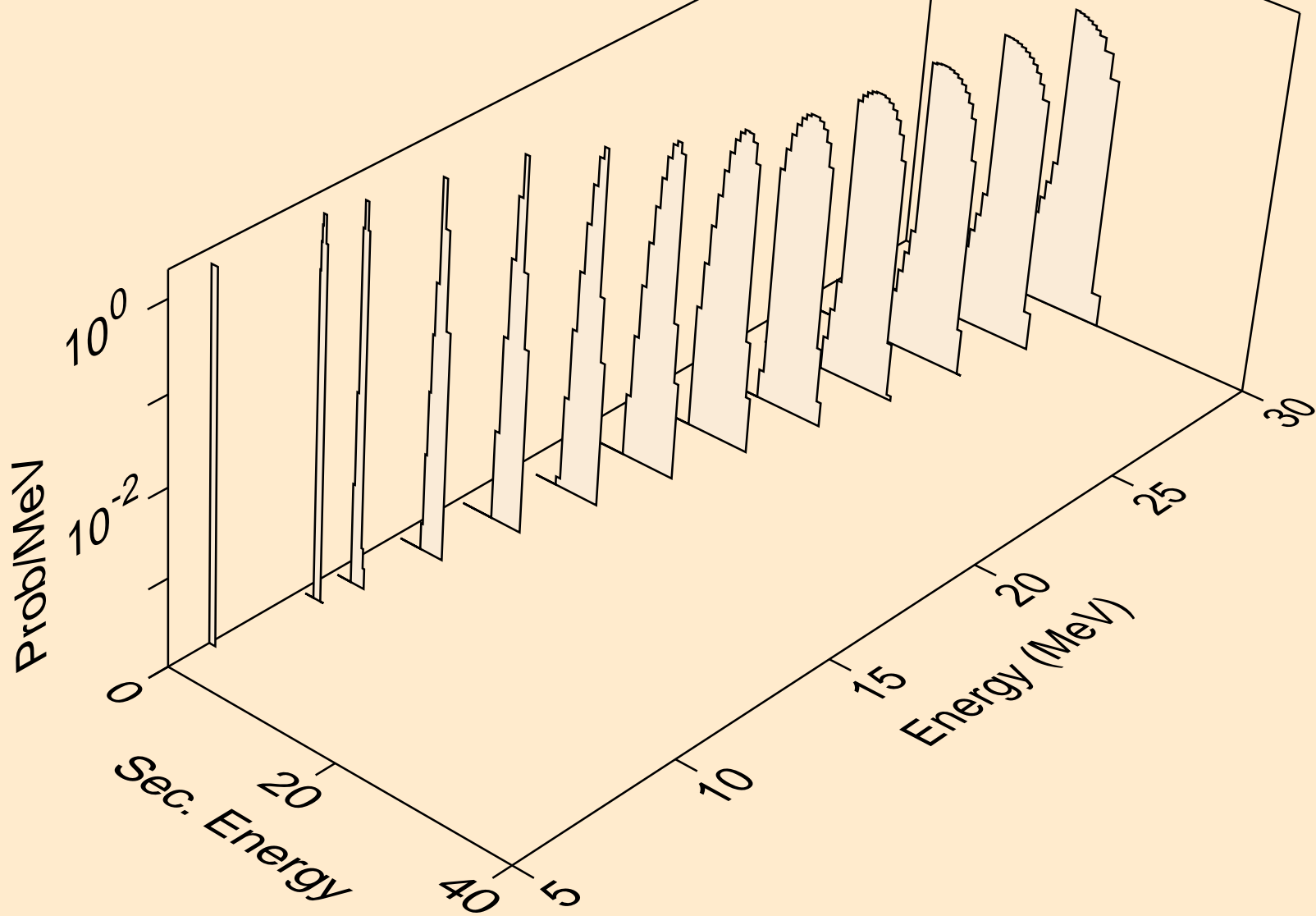
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tritons from (n,x)



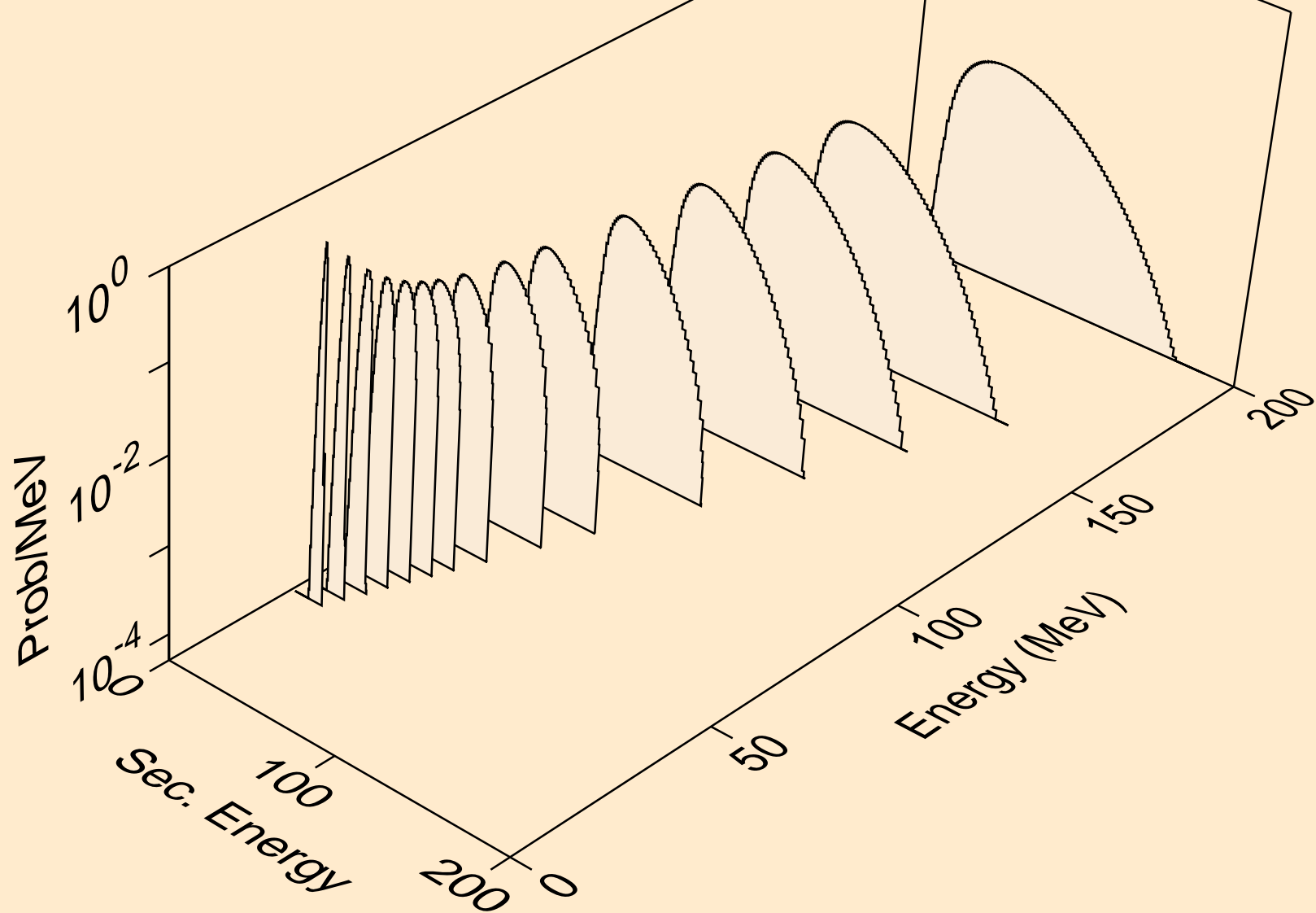
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t



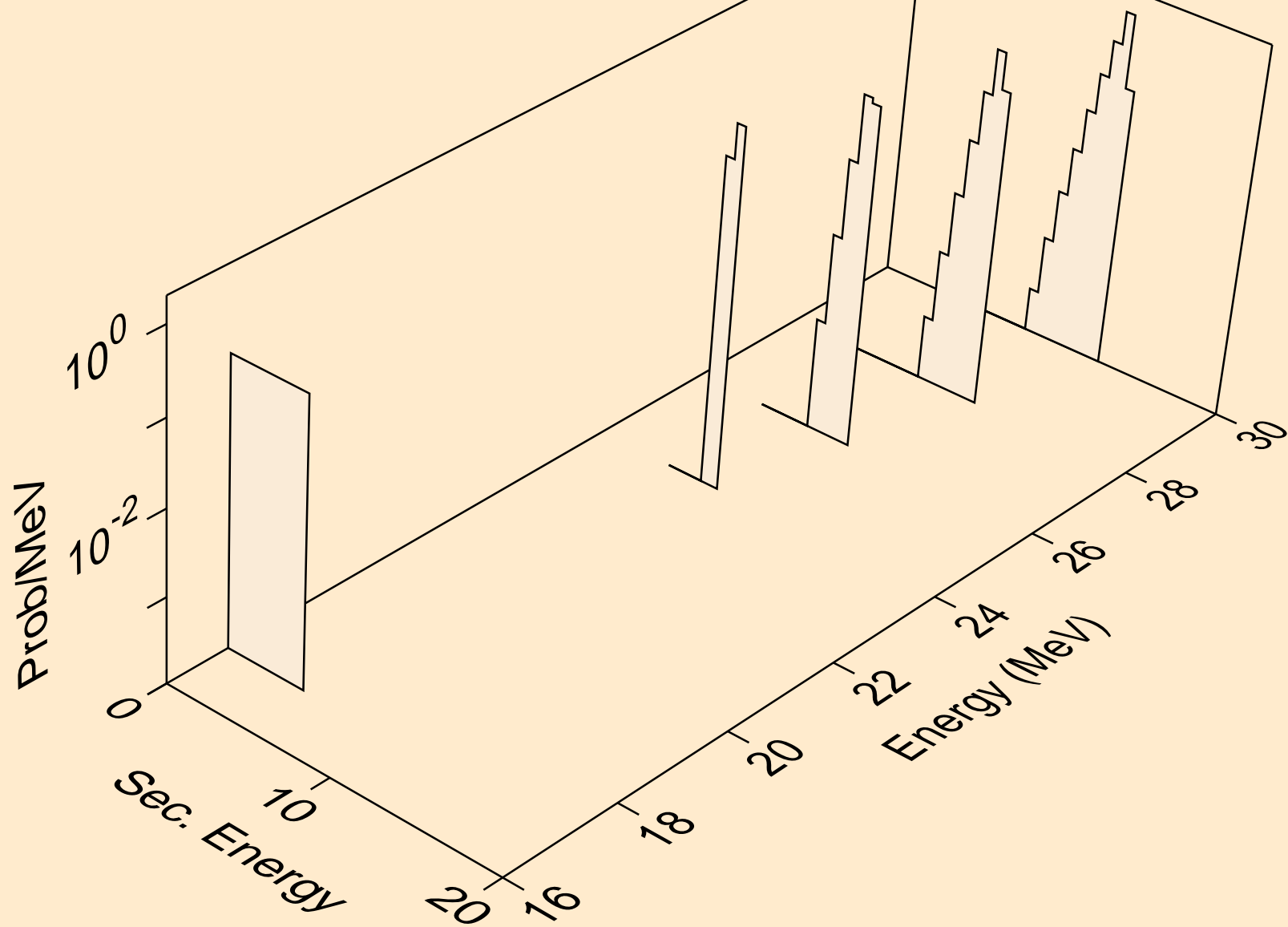
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,t)



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)

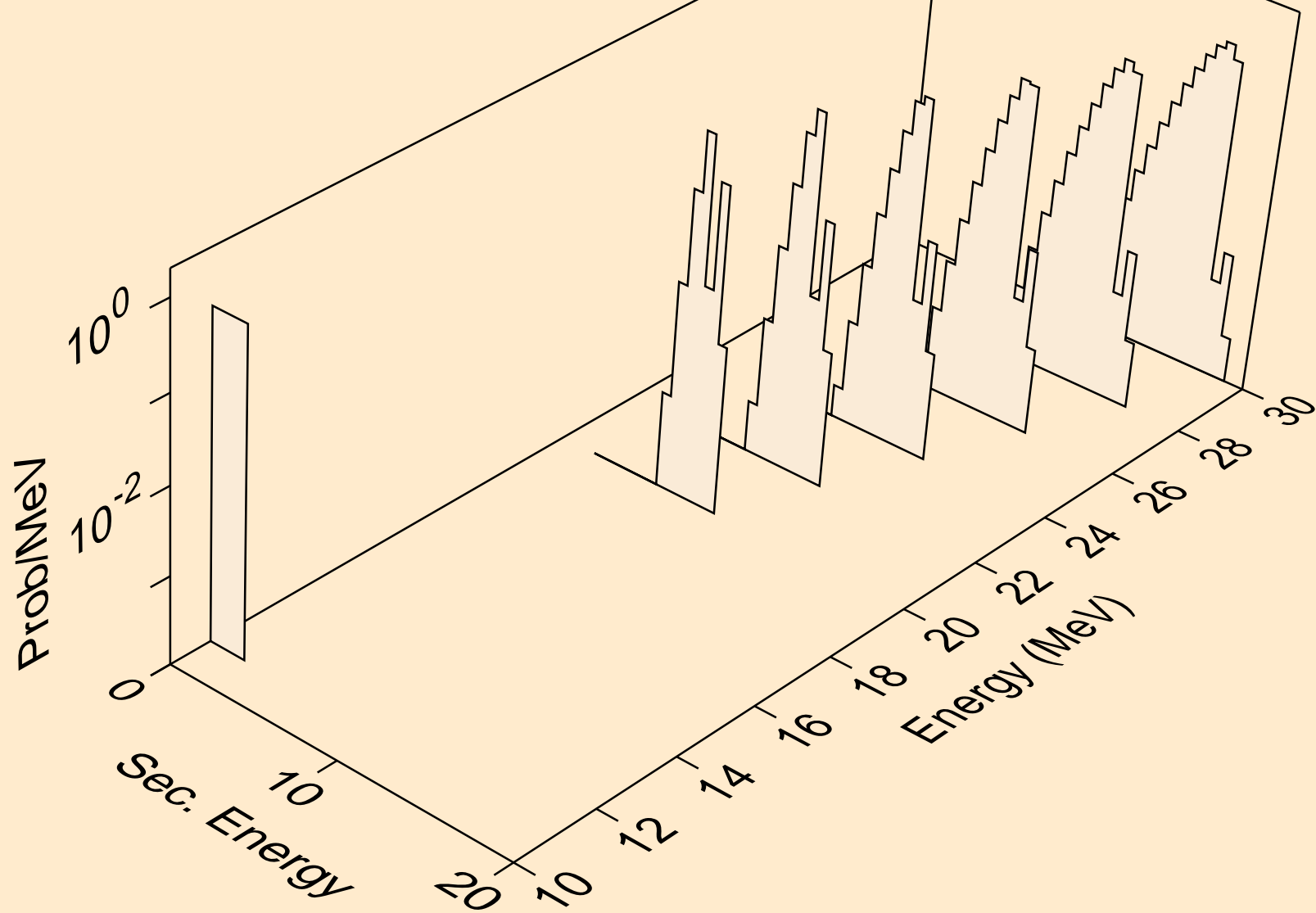


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he3s from (n,n\*)he3

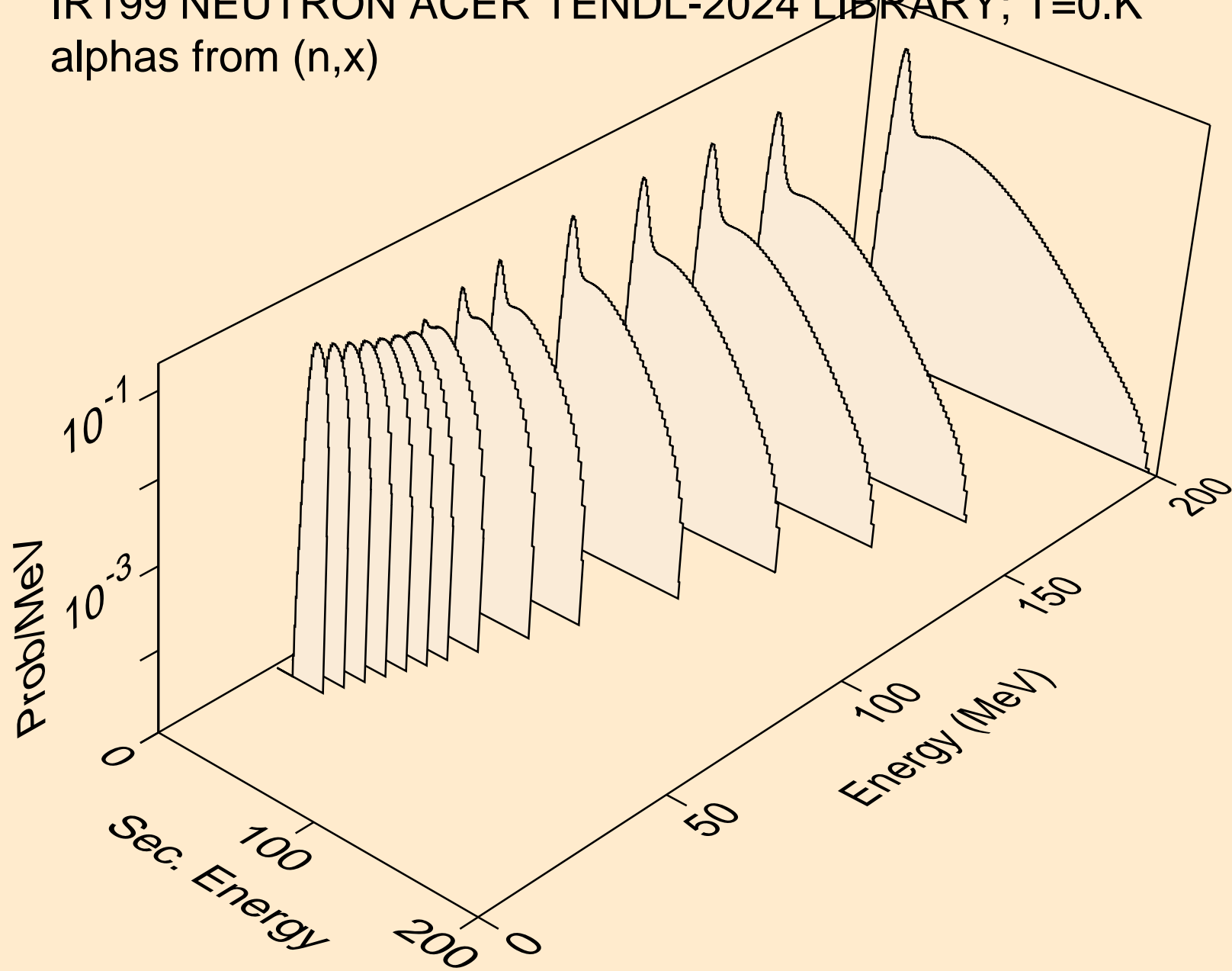




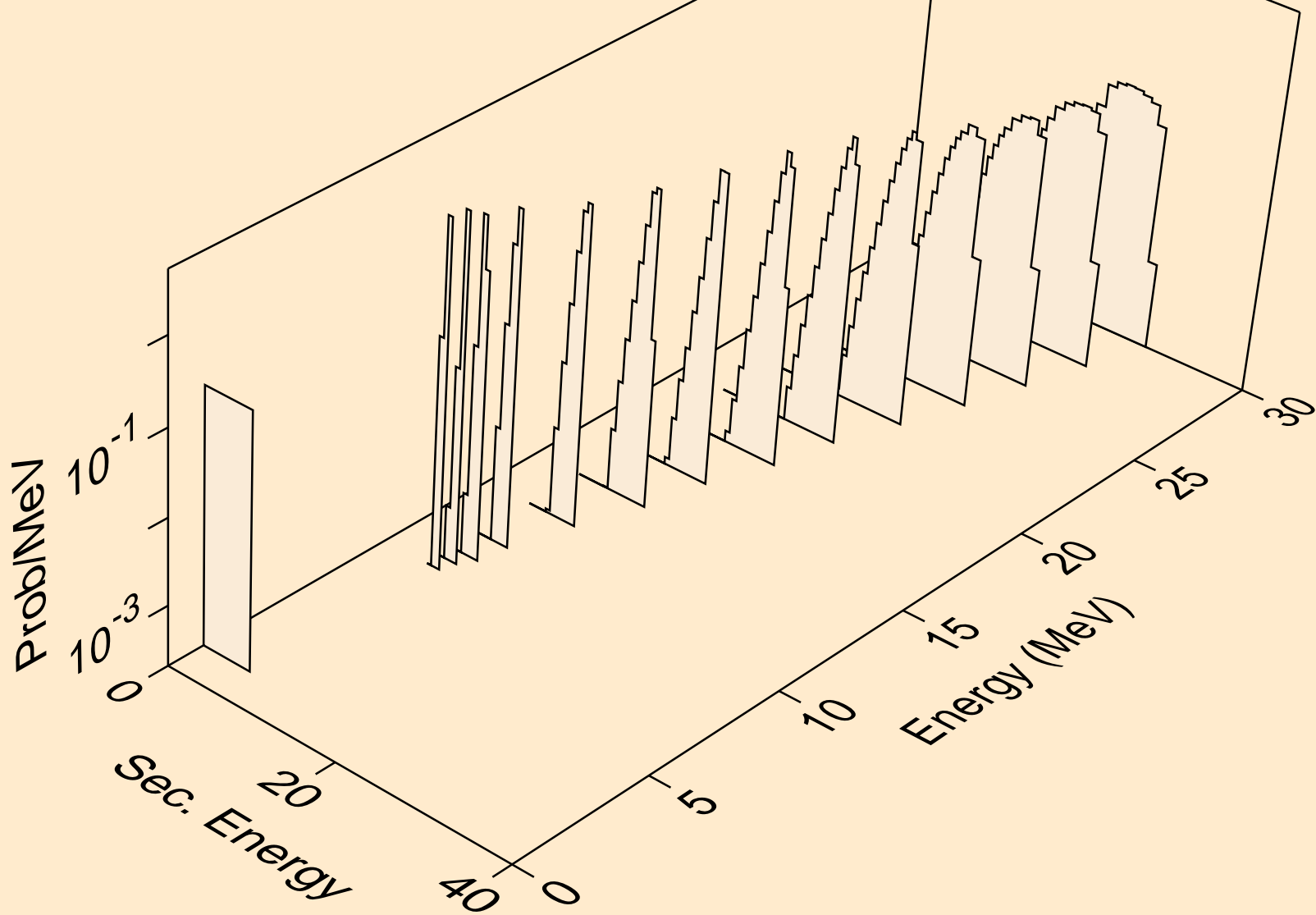
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he3s from (n,he3)



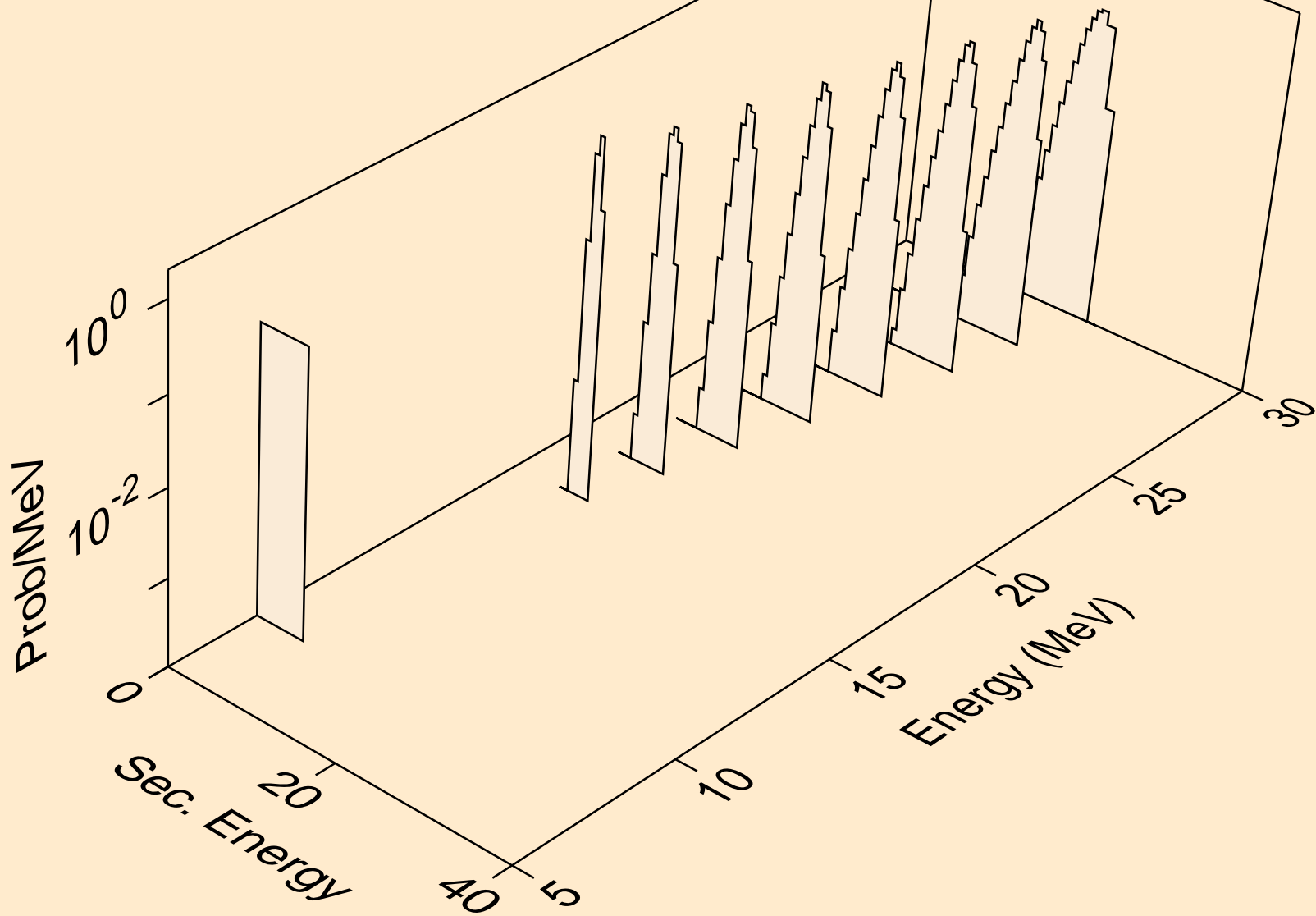
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alphas from (n,x)



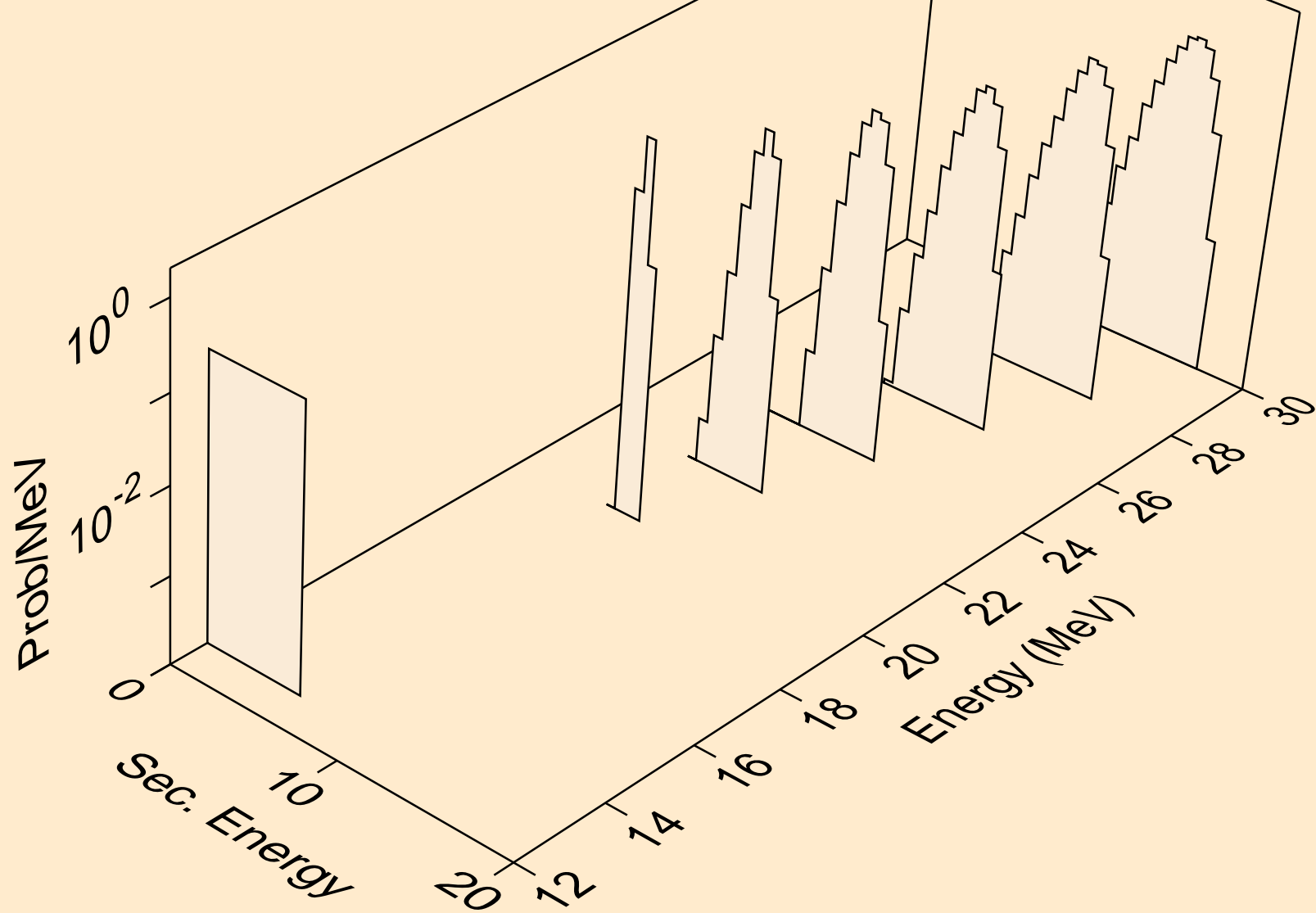
IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



IR199 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)

