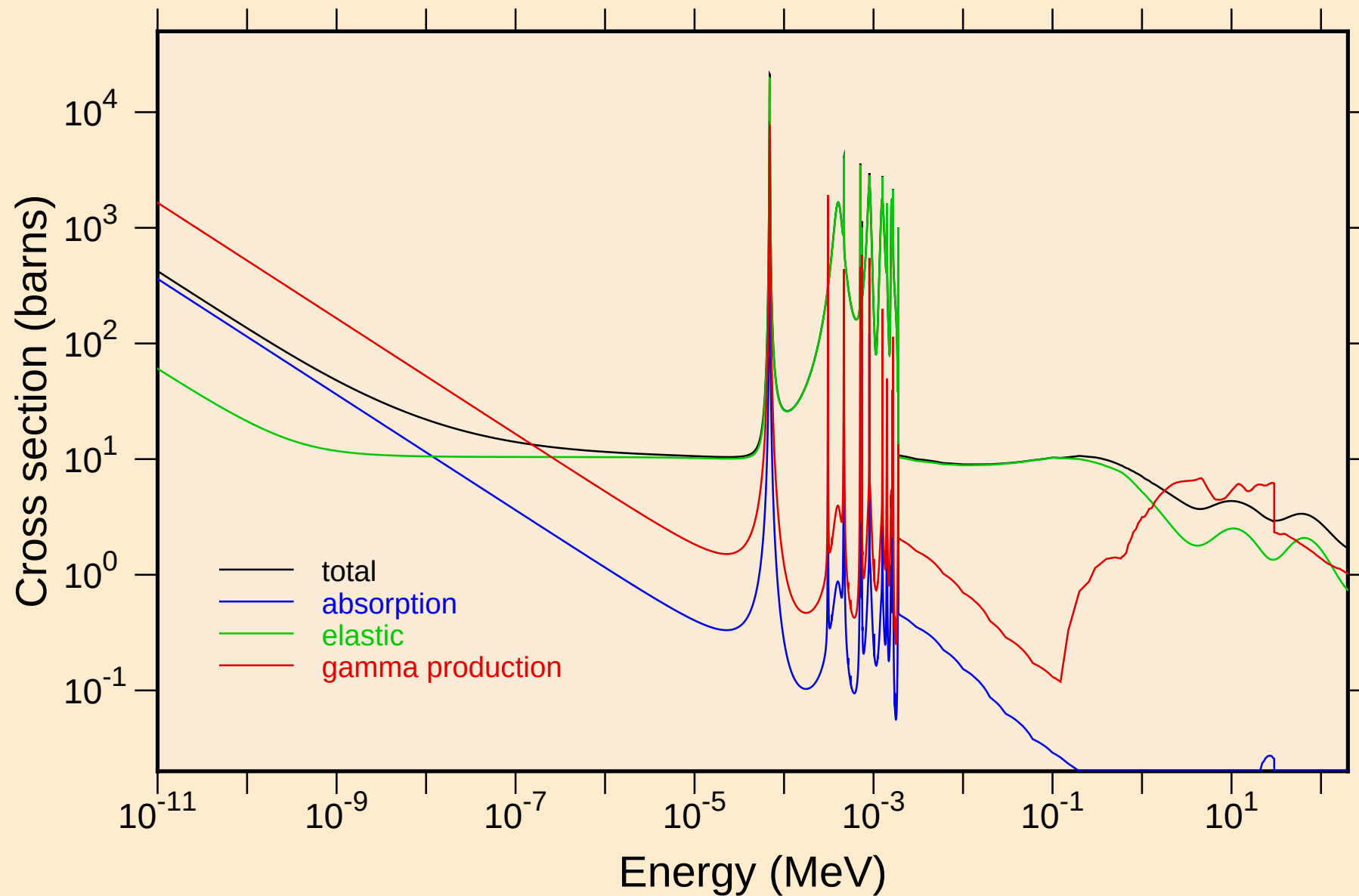
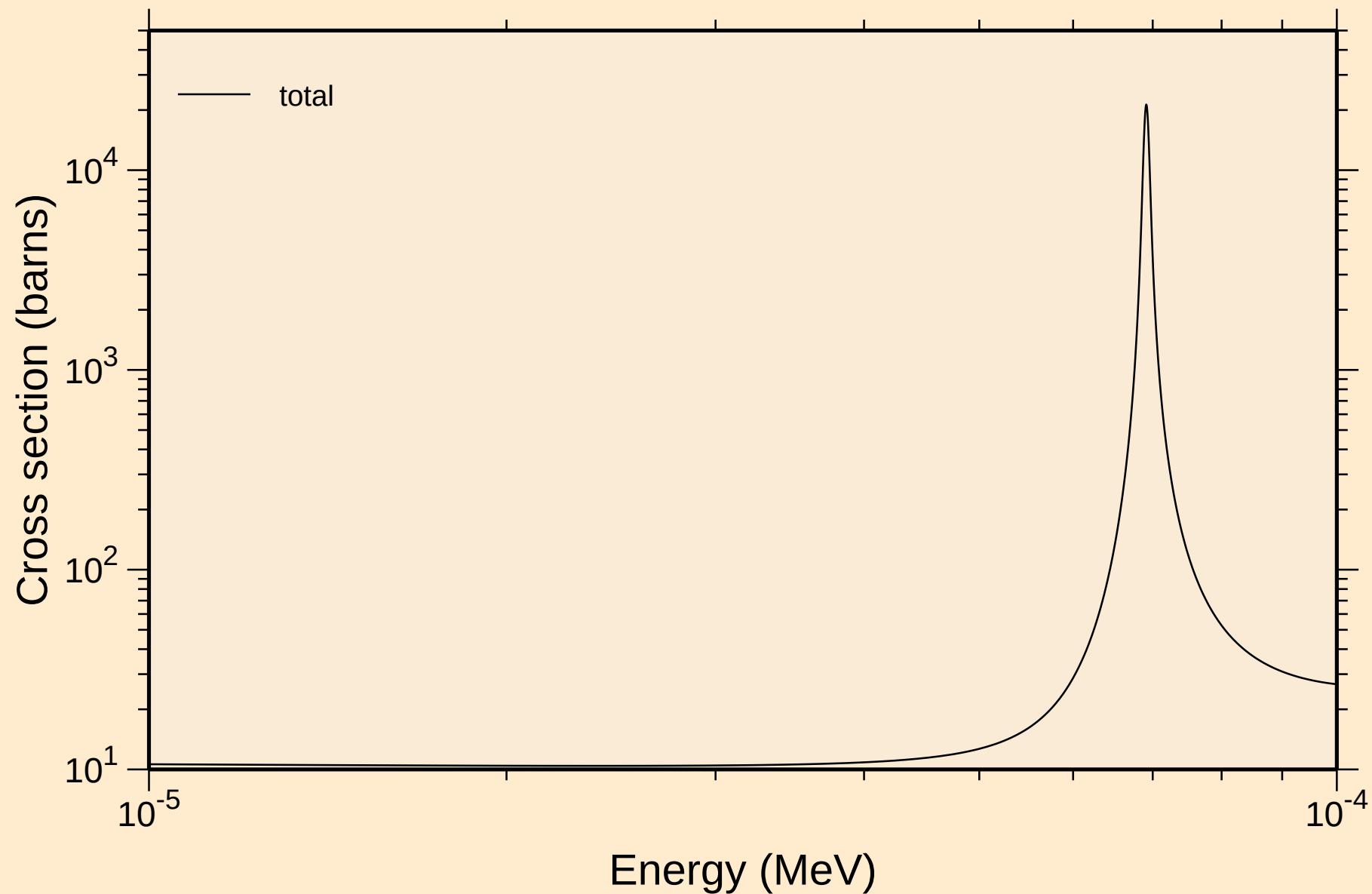


# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

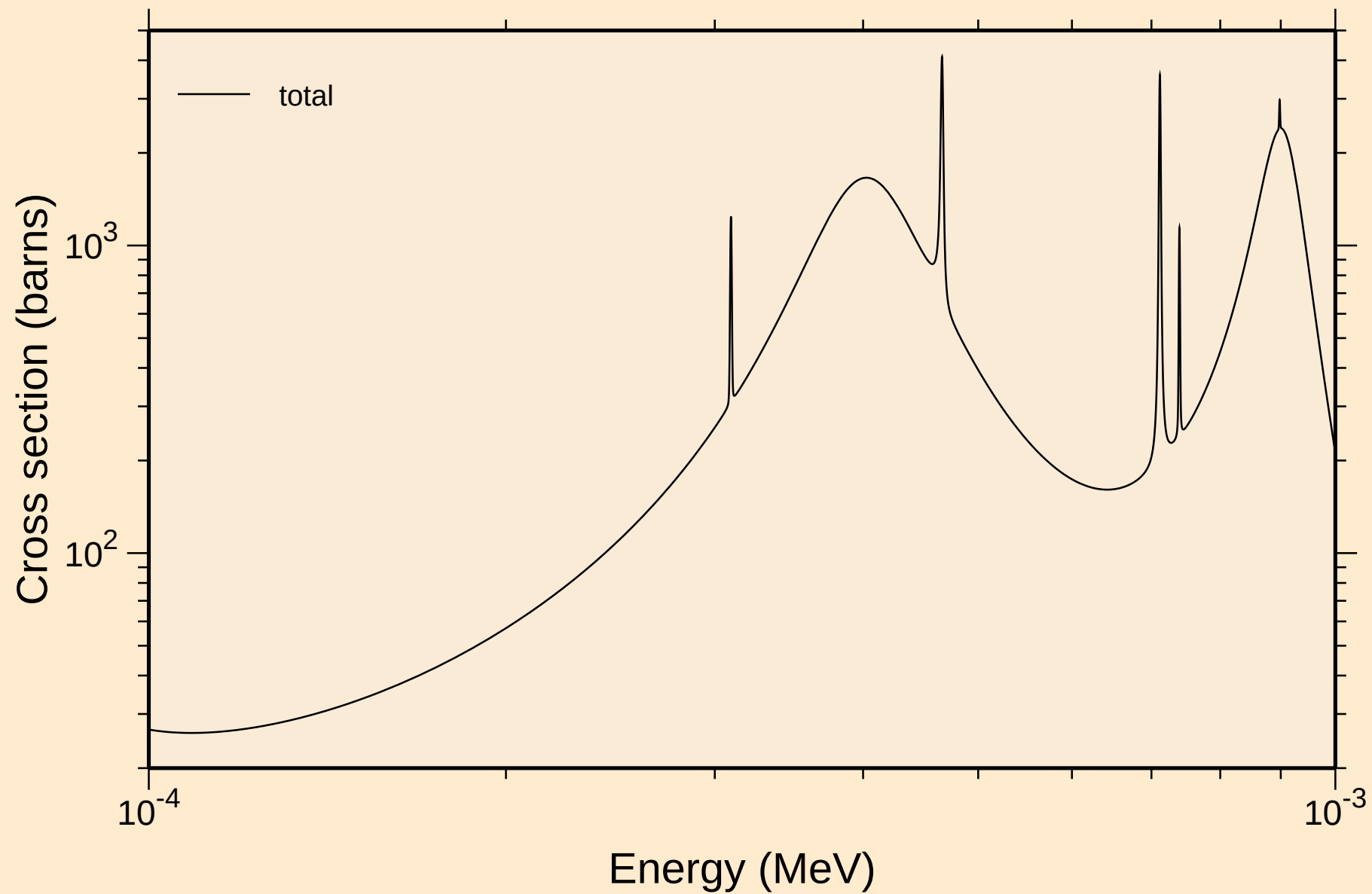
## Principal cross sections



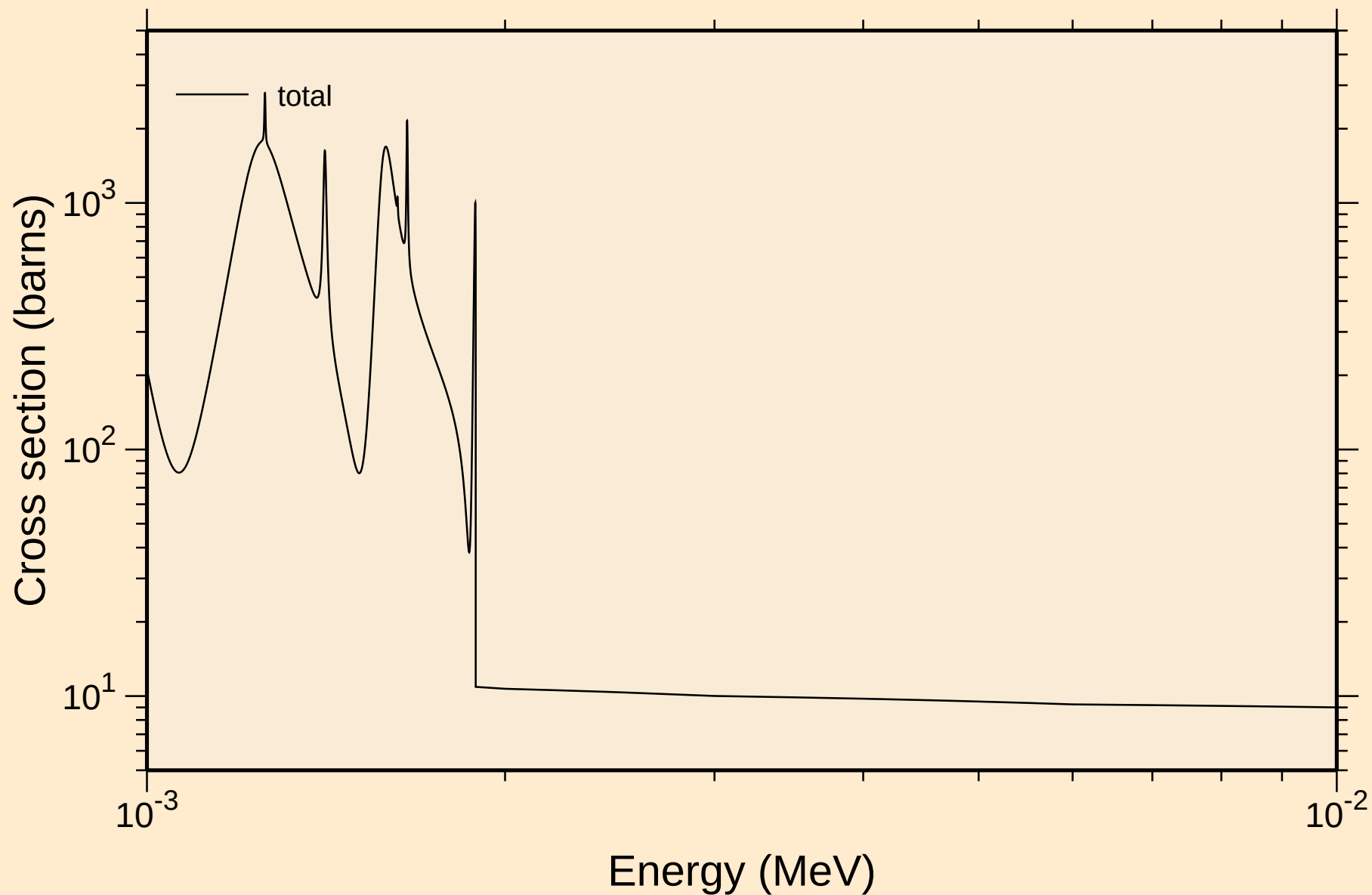
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



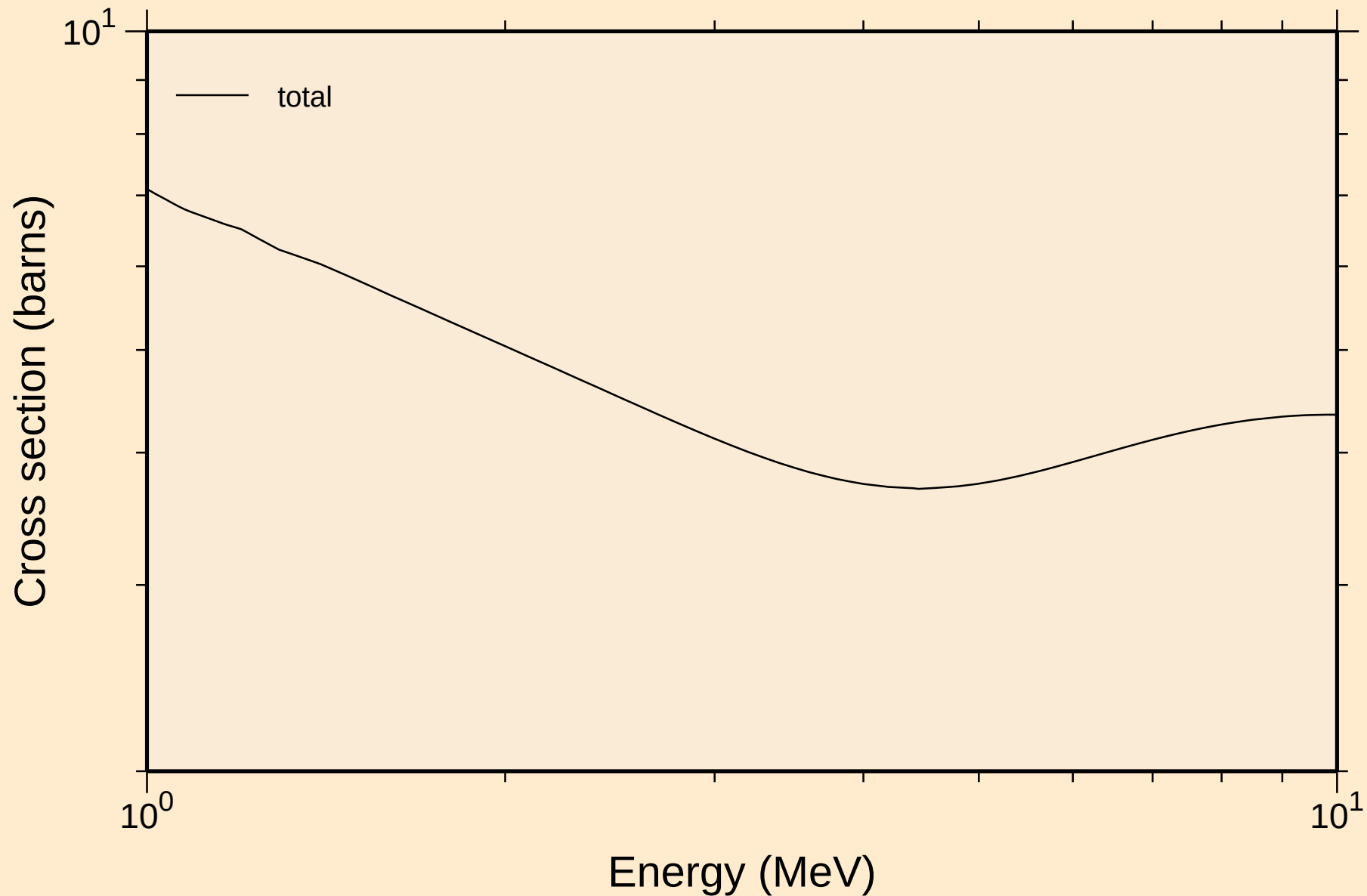
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



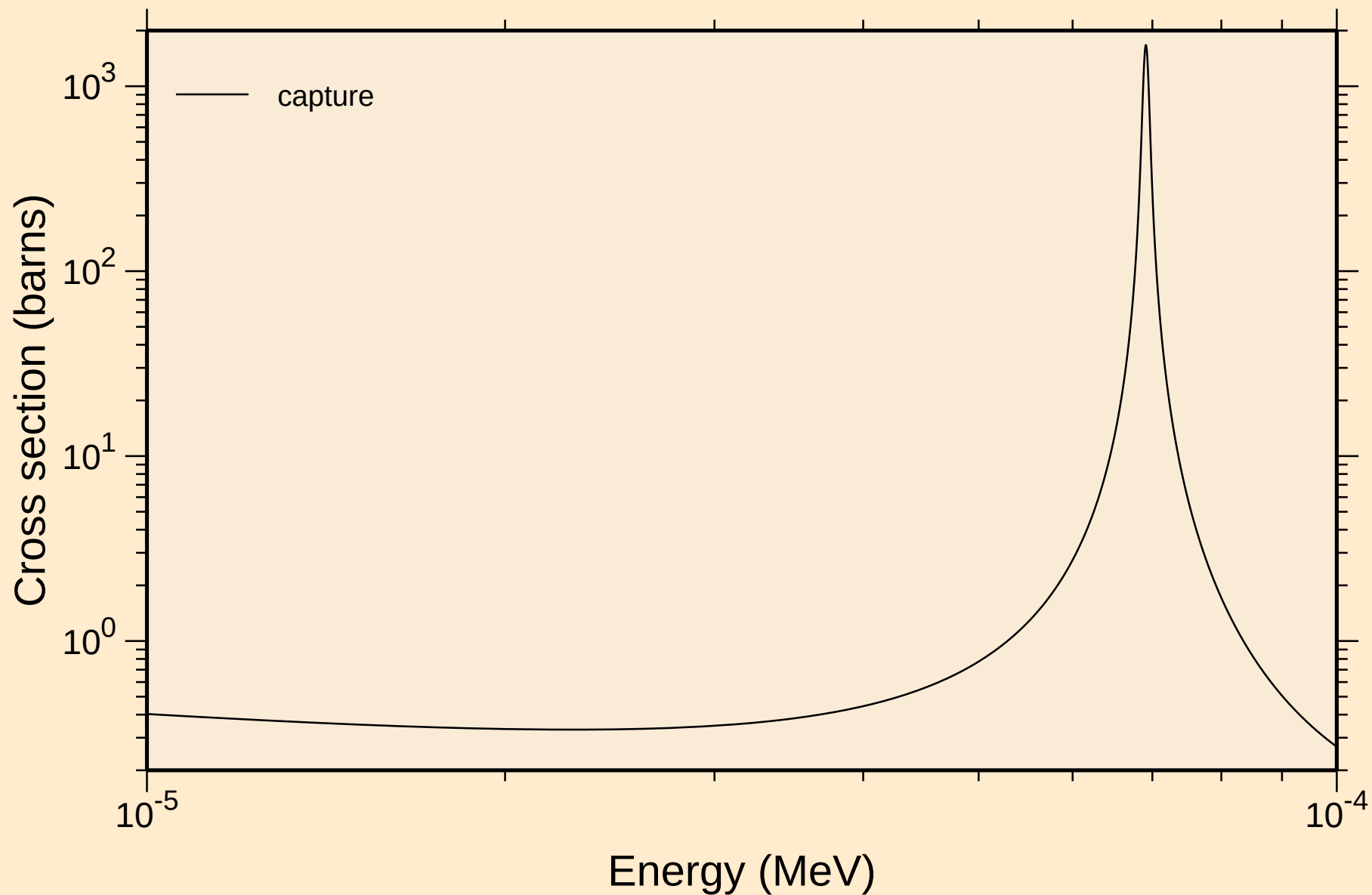
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



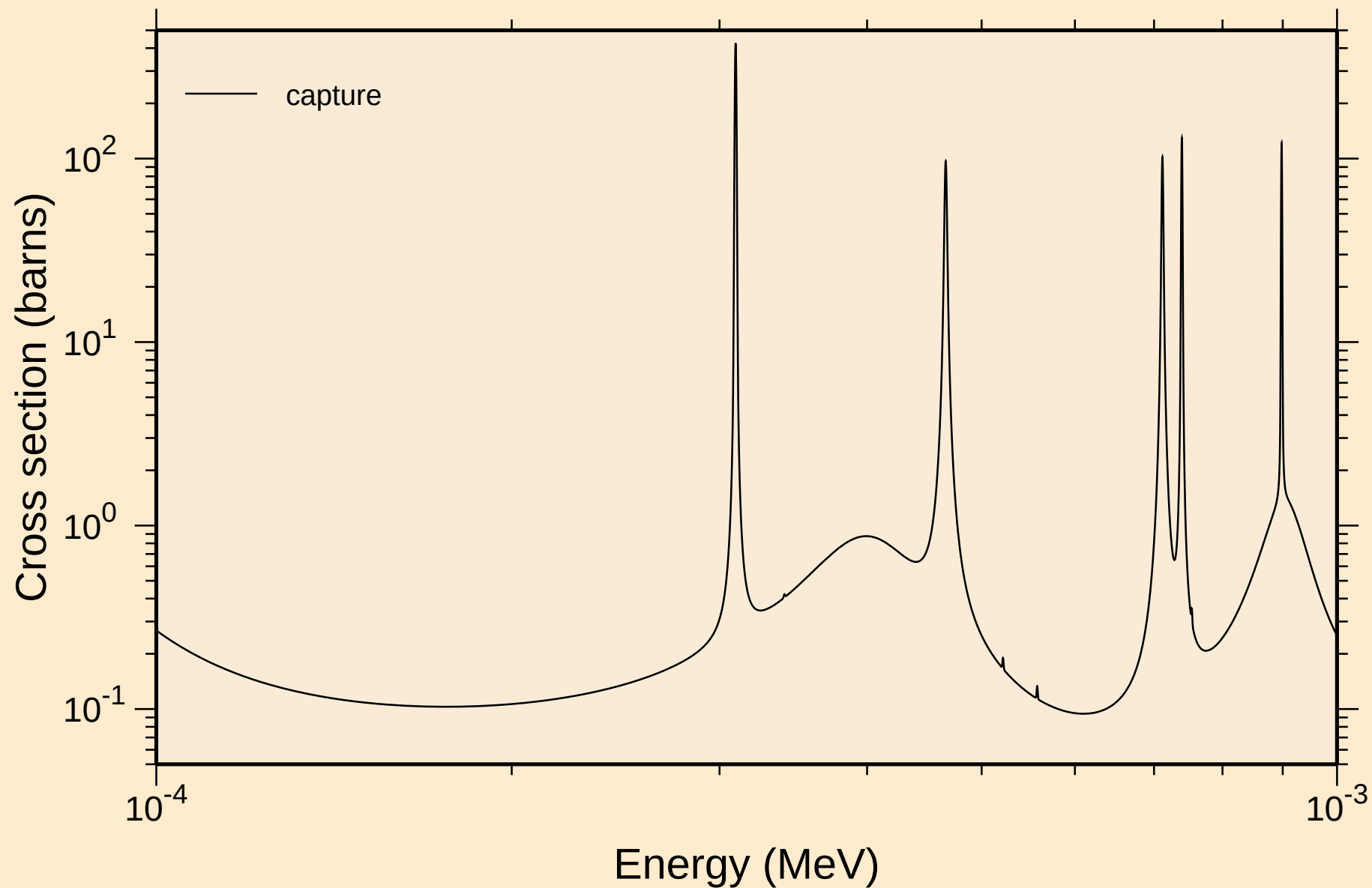
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance total cross section



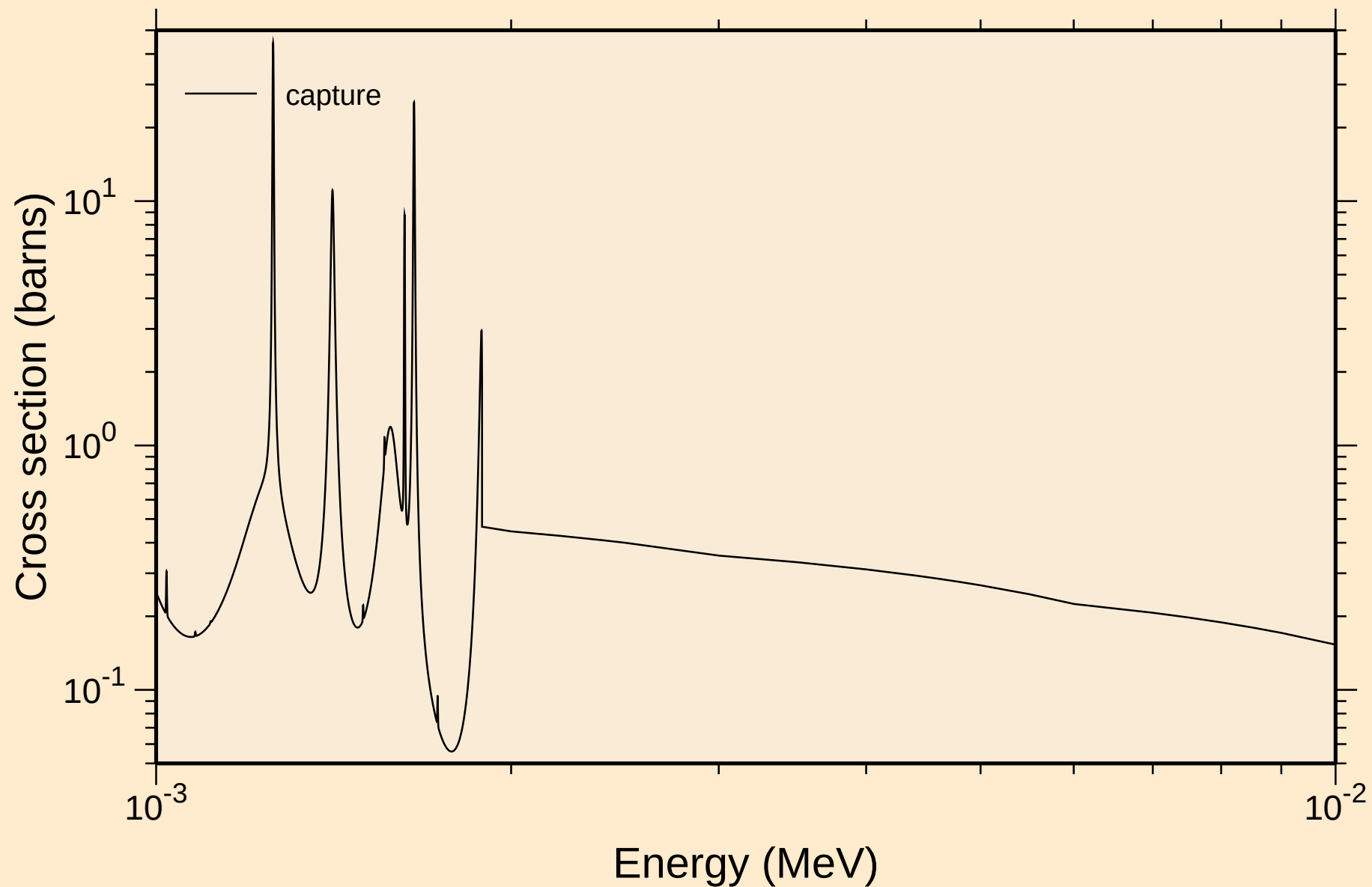
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections

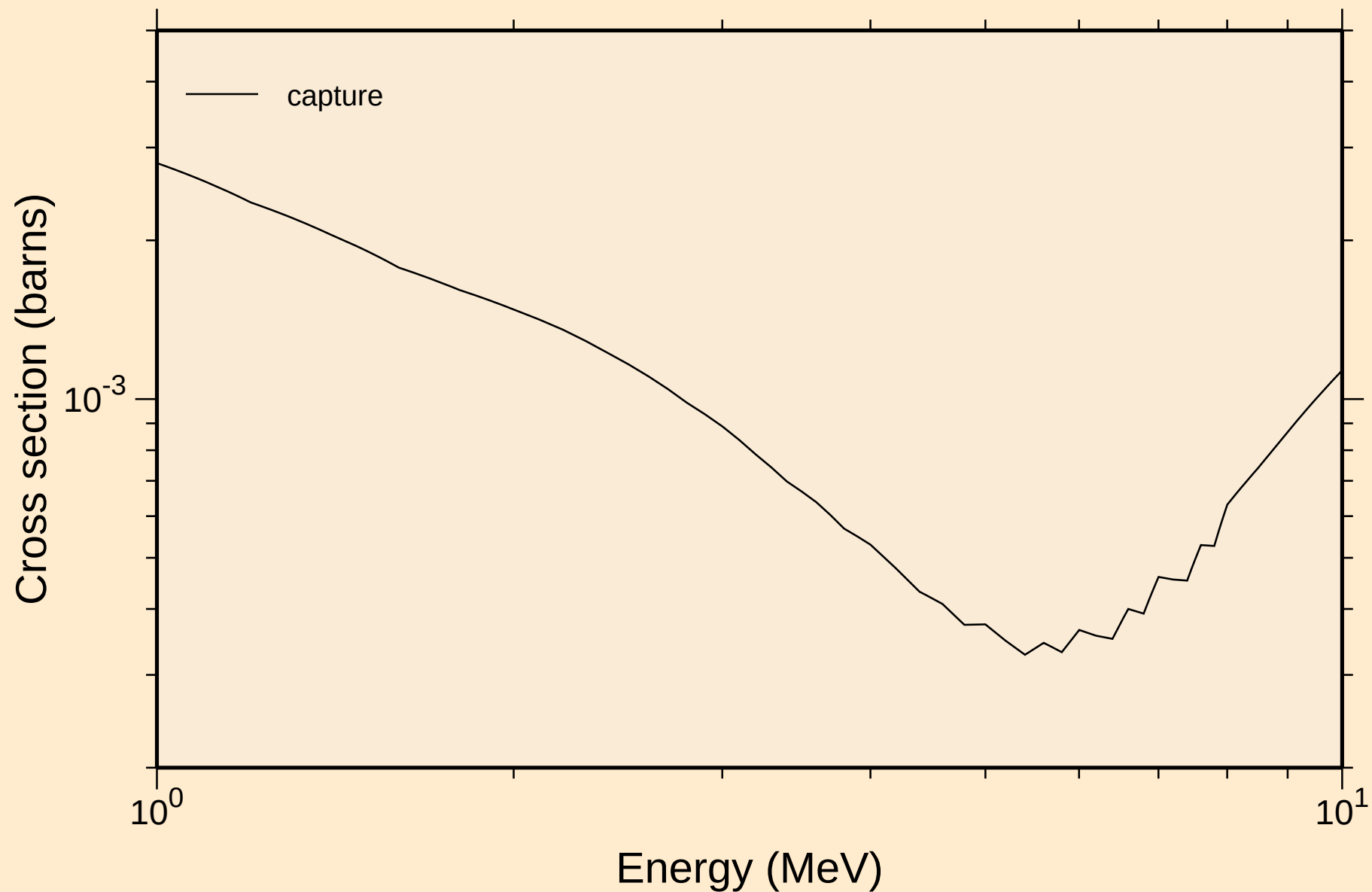


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



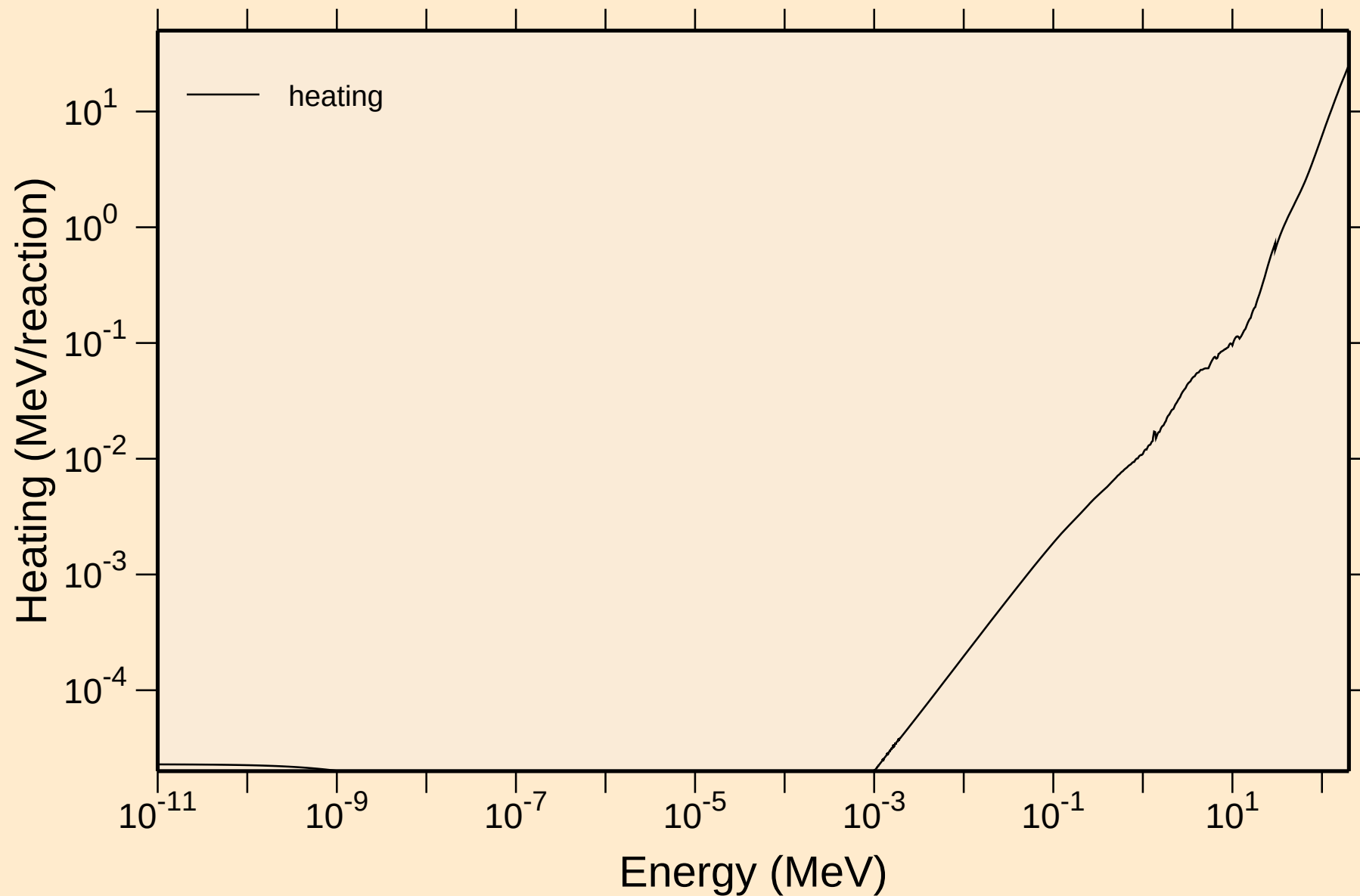


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections



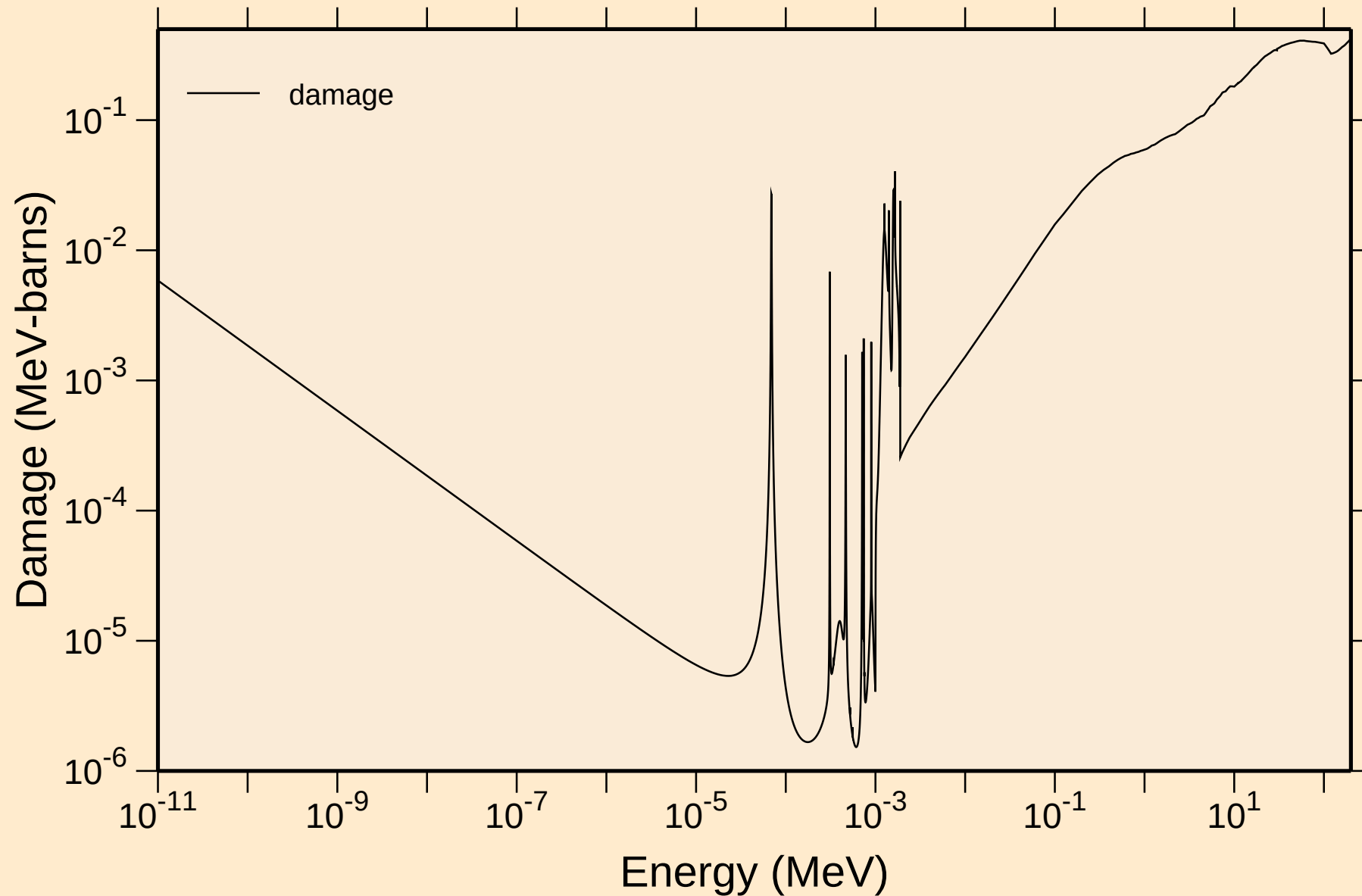
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Heating

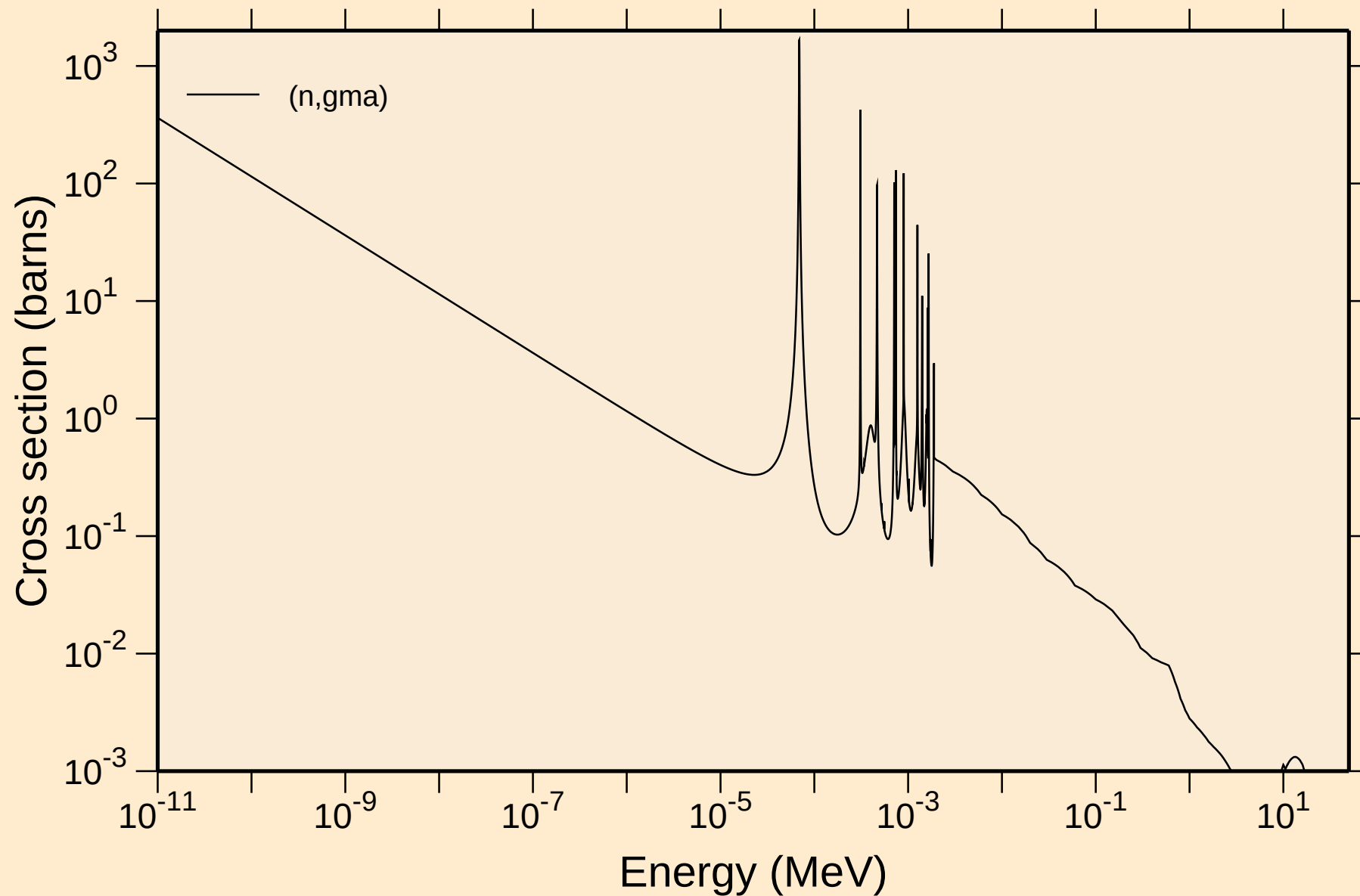


# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Damage

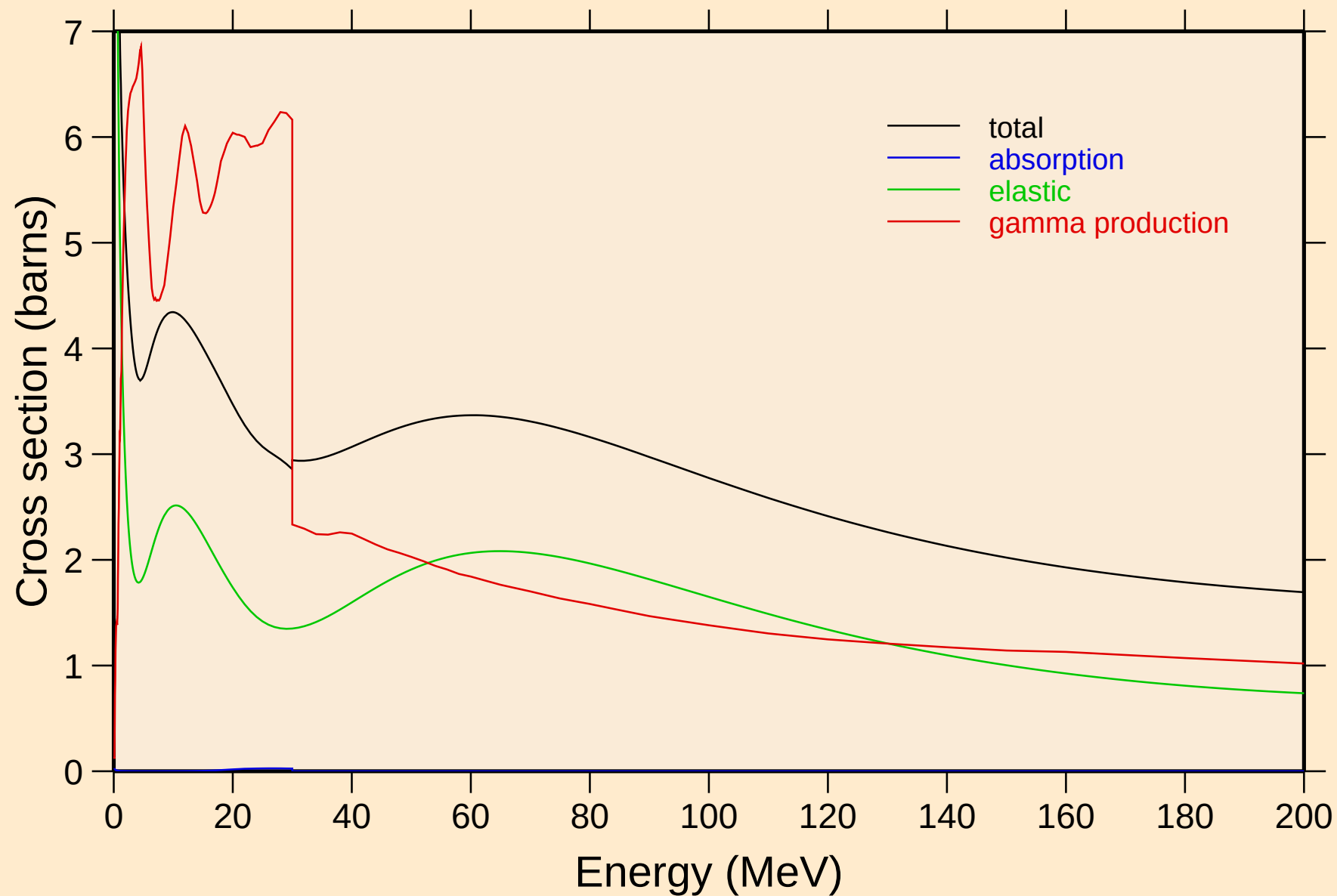


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions



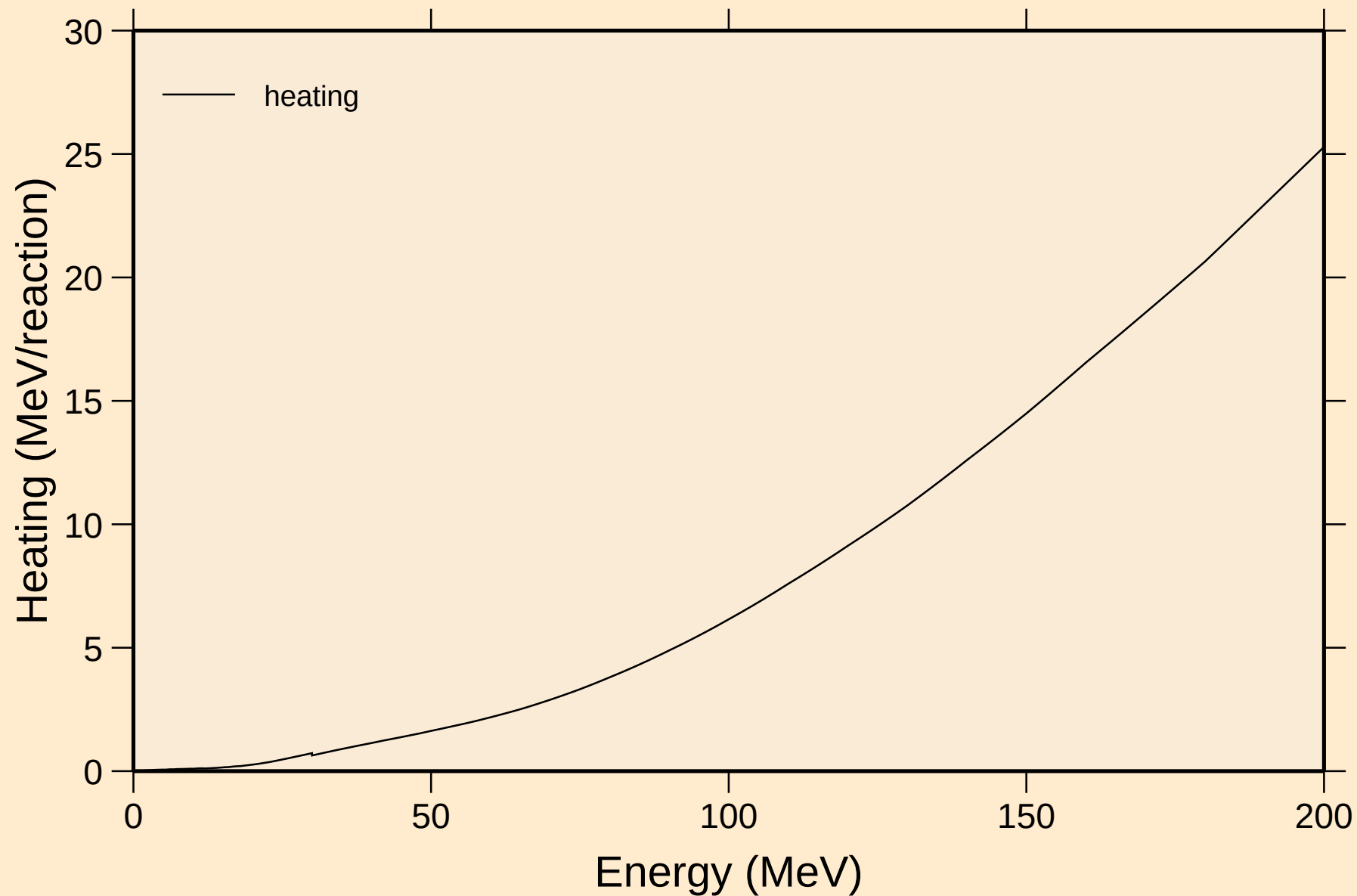
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Principal cross sections



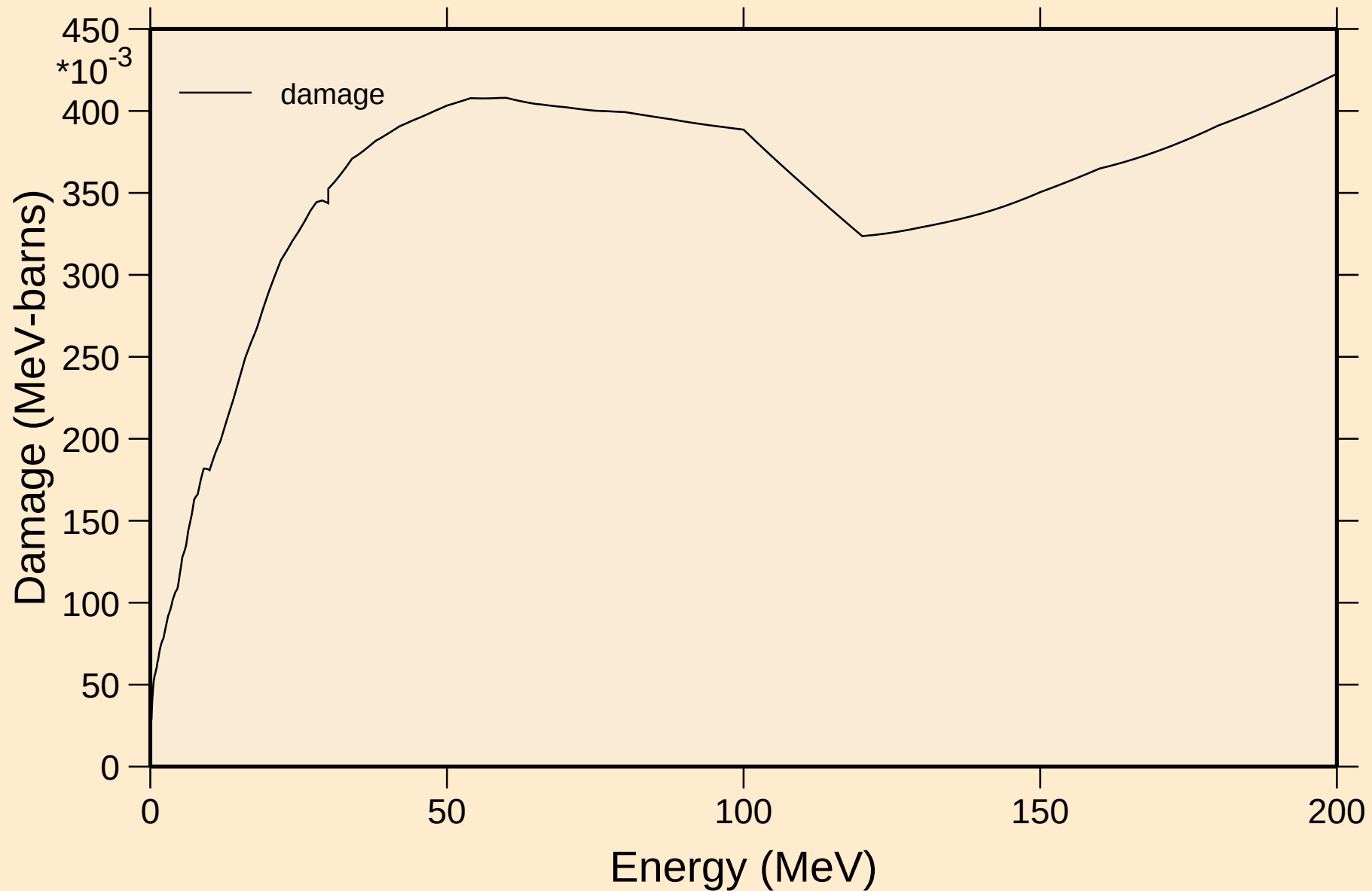
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Heating

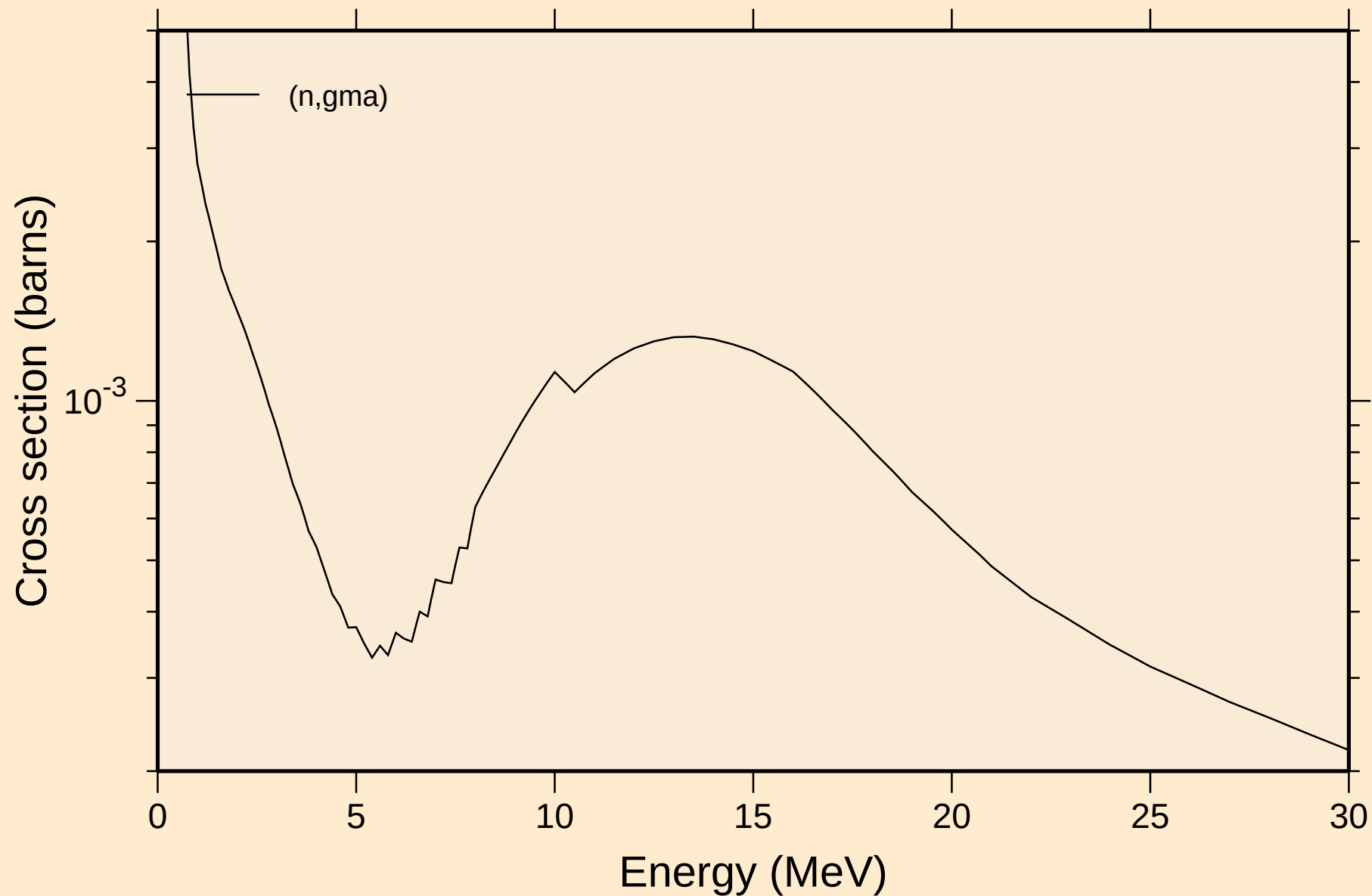


# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Damage



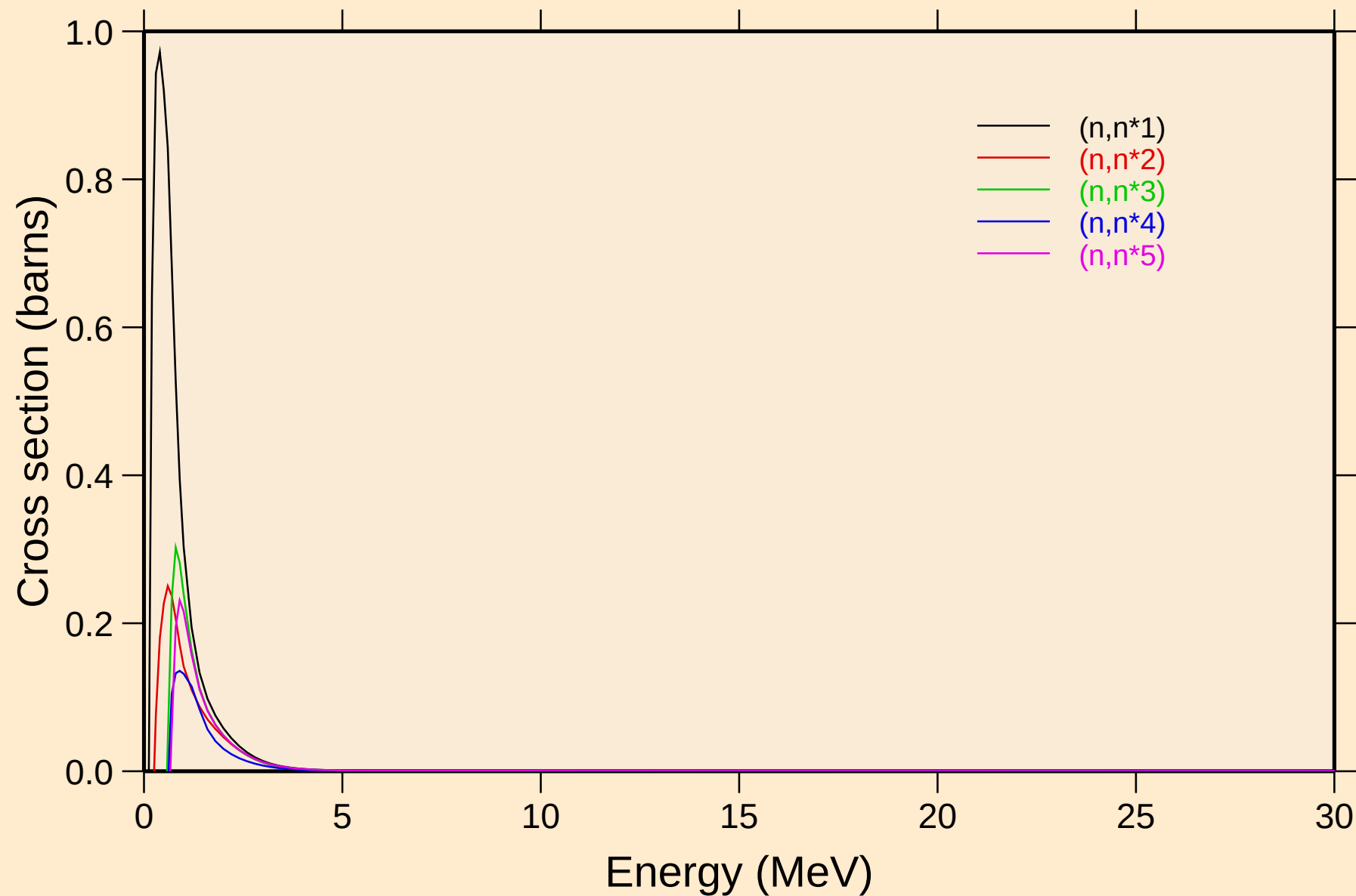
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions





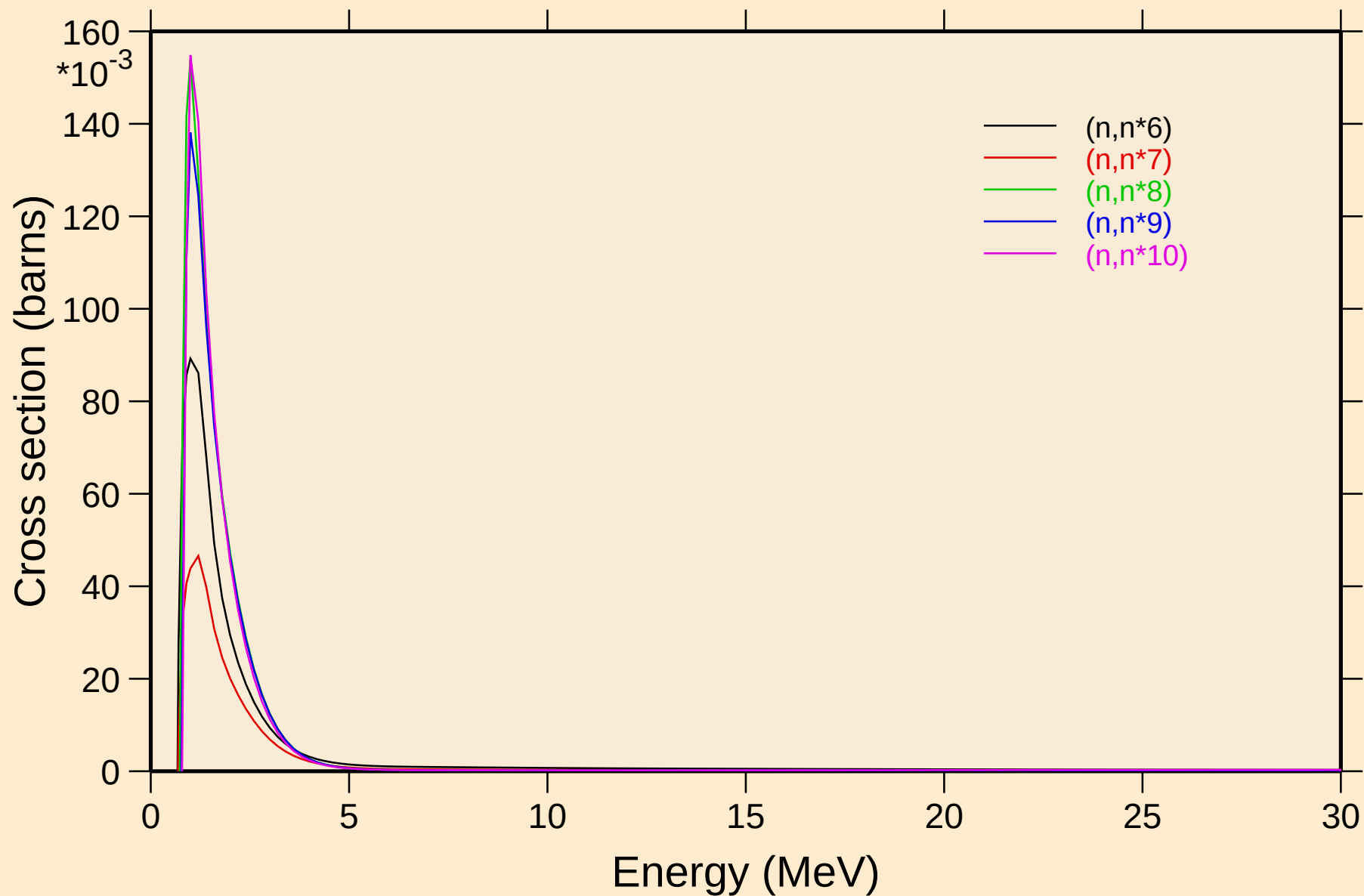
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



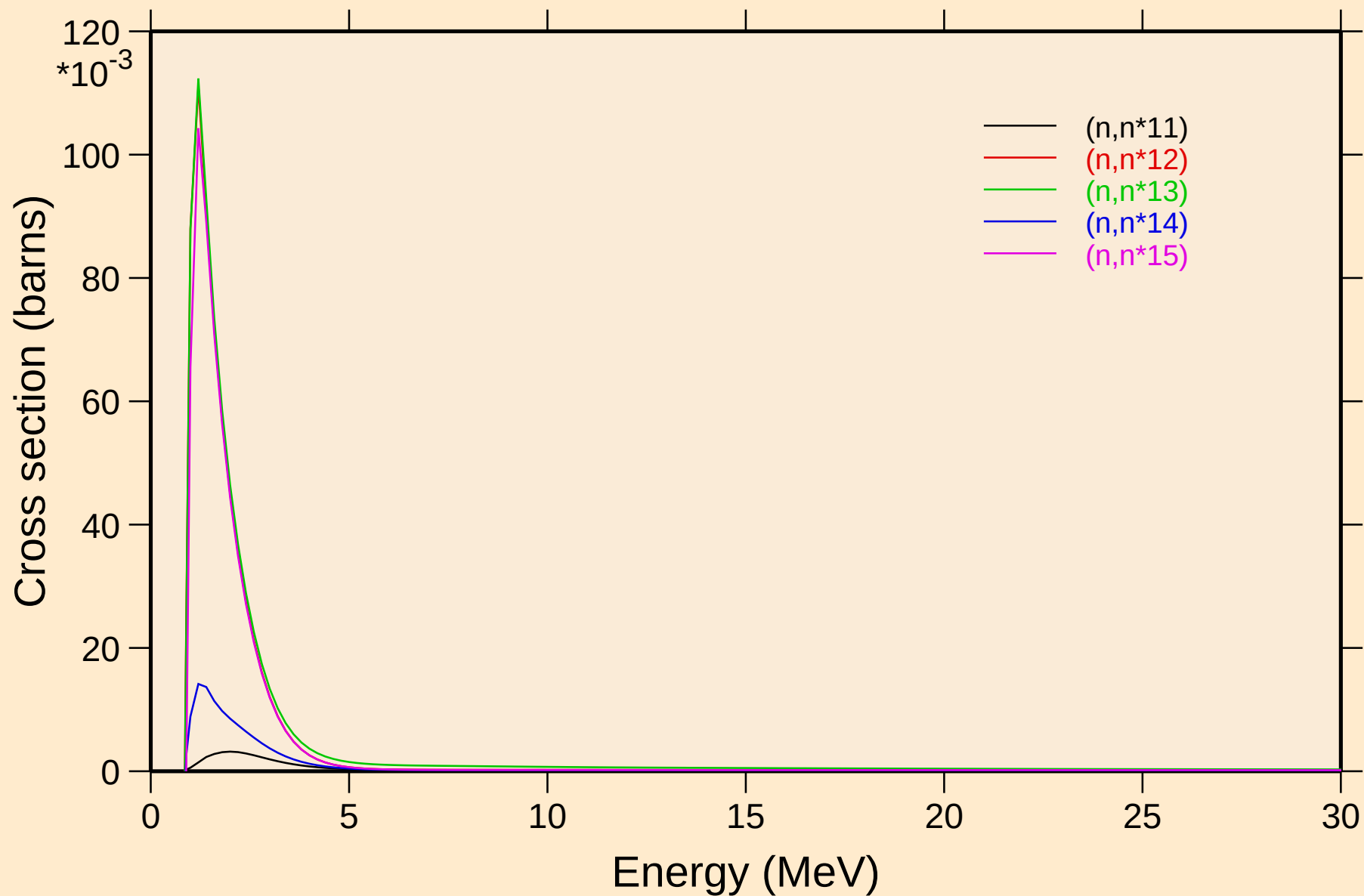
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



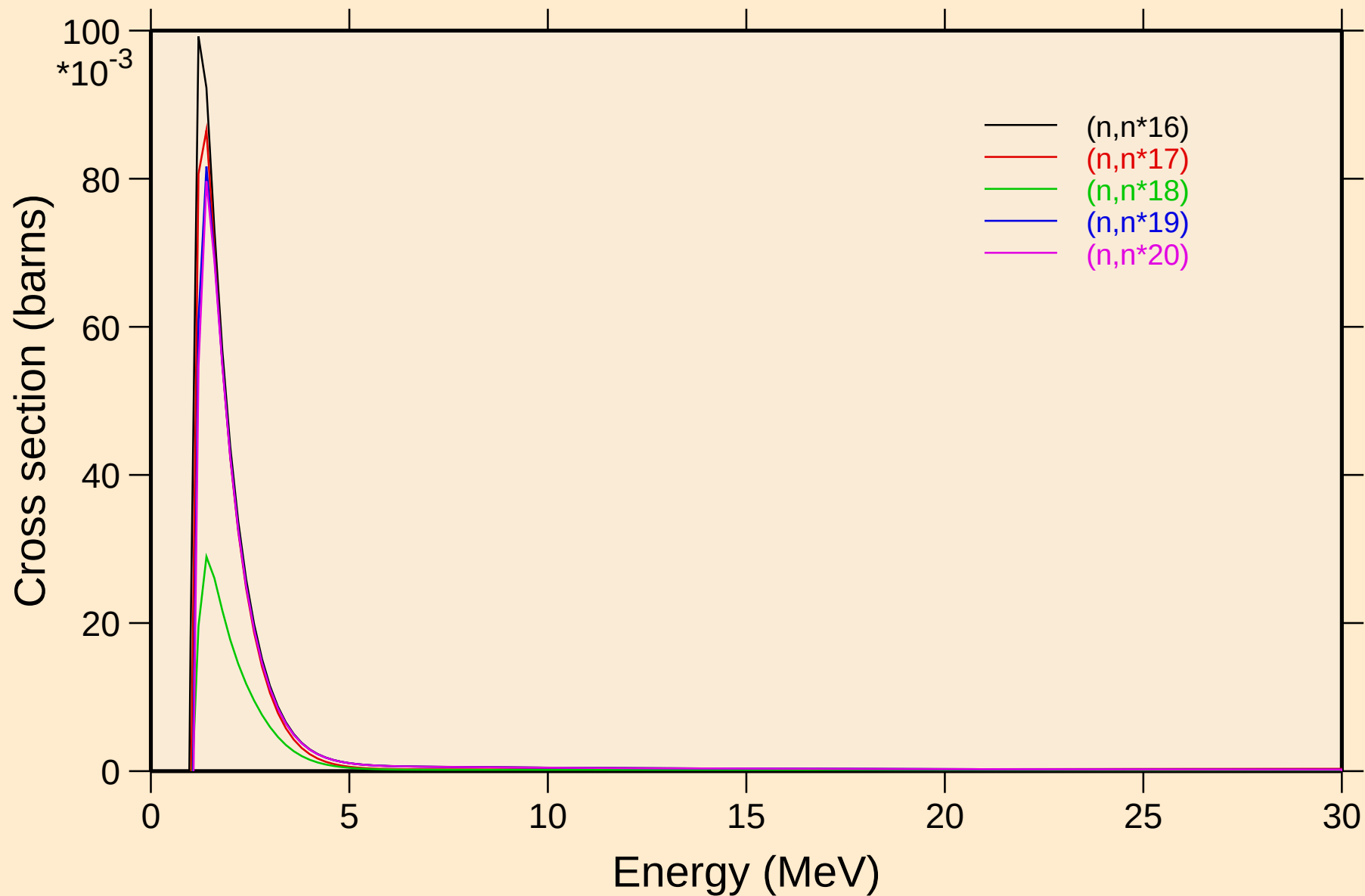
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



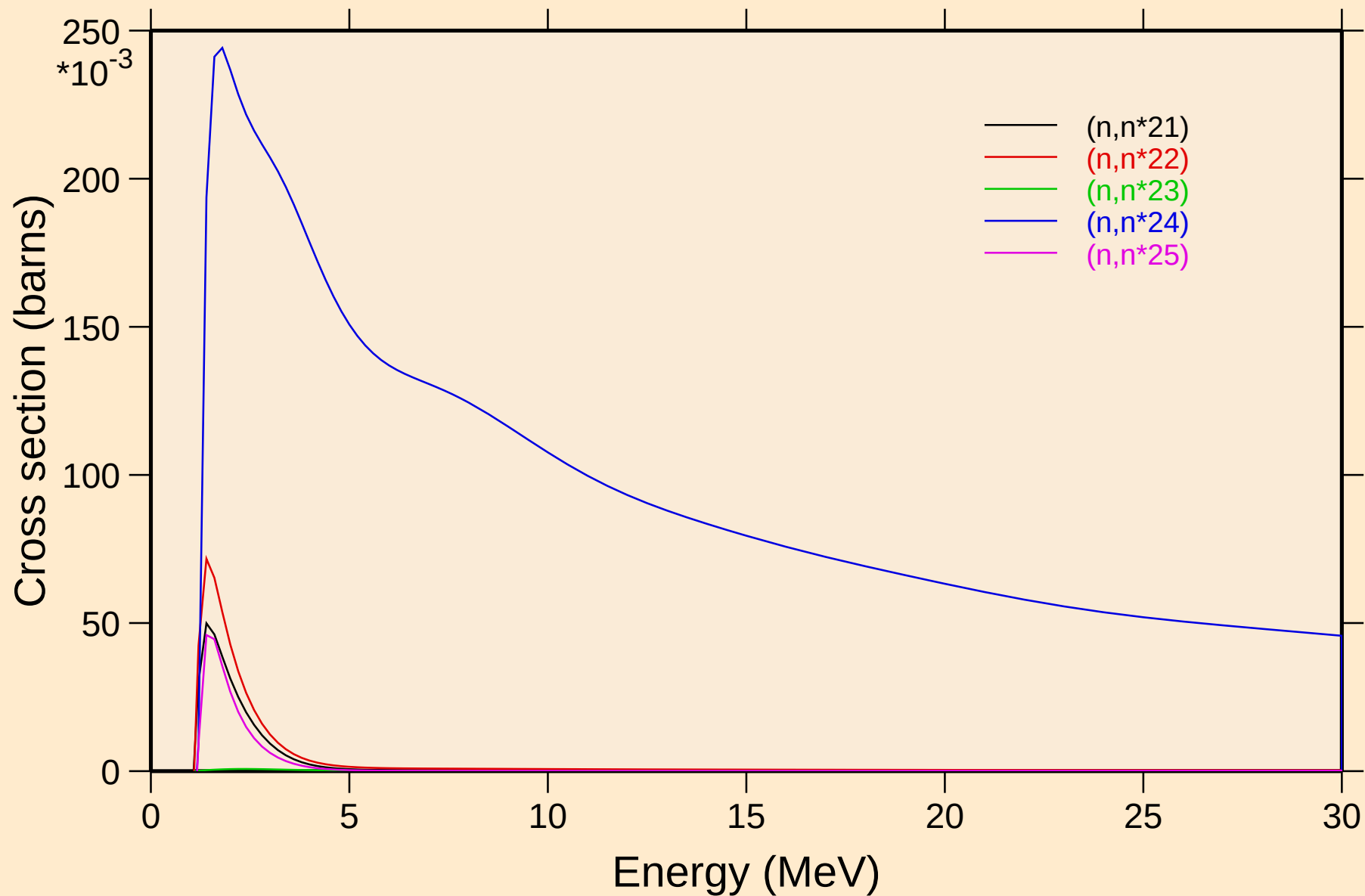
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



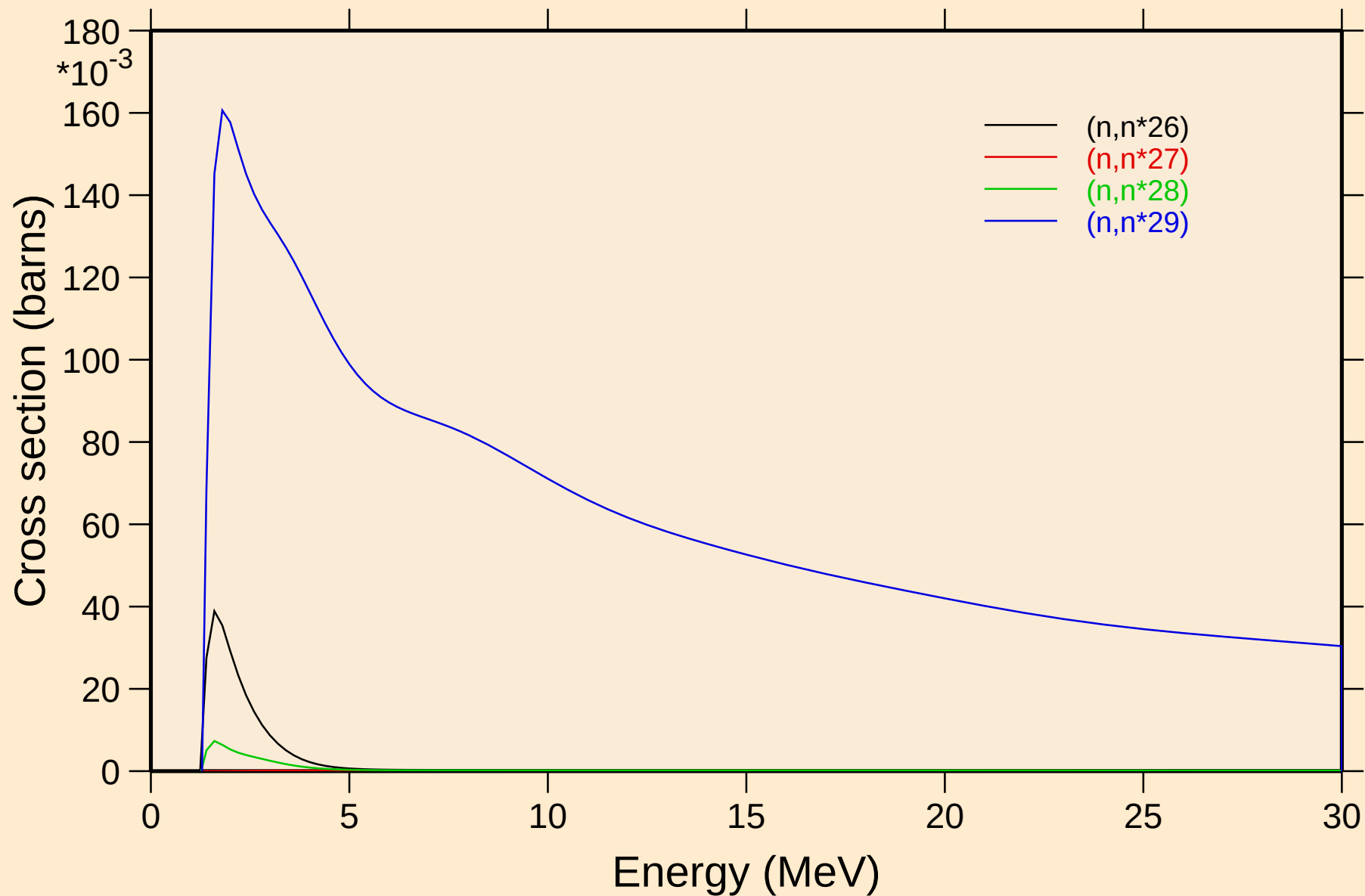
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



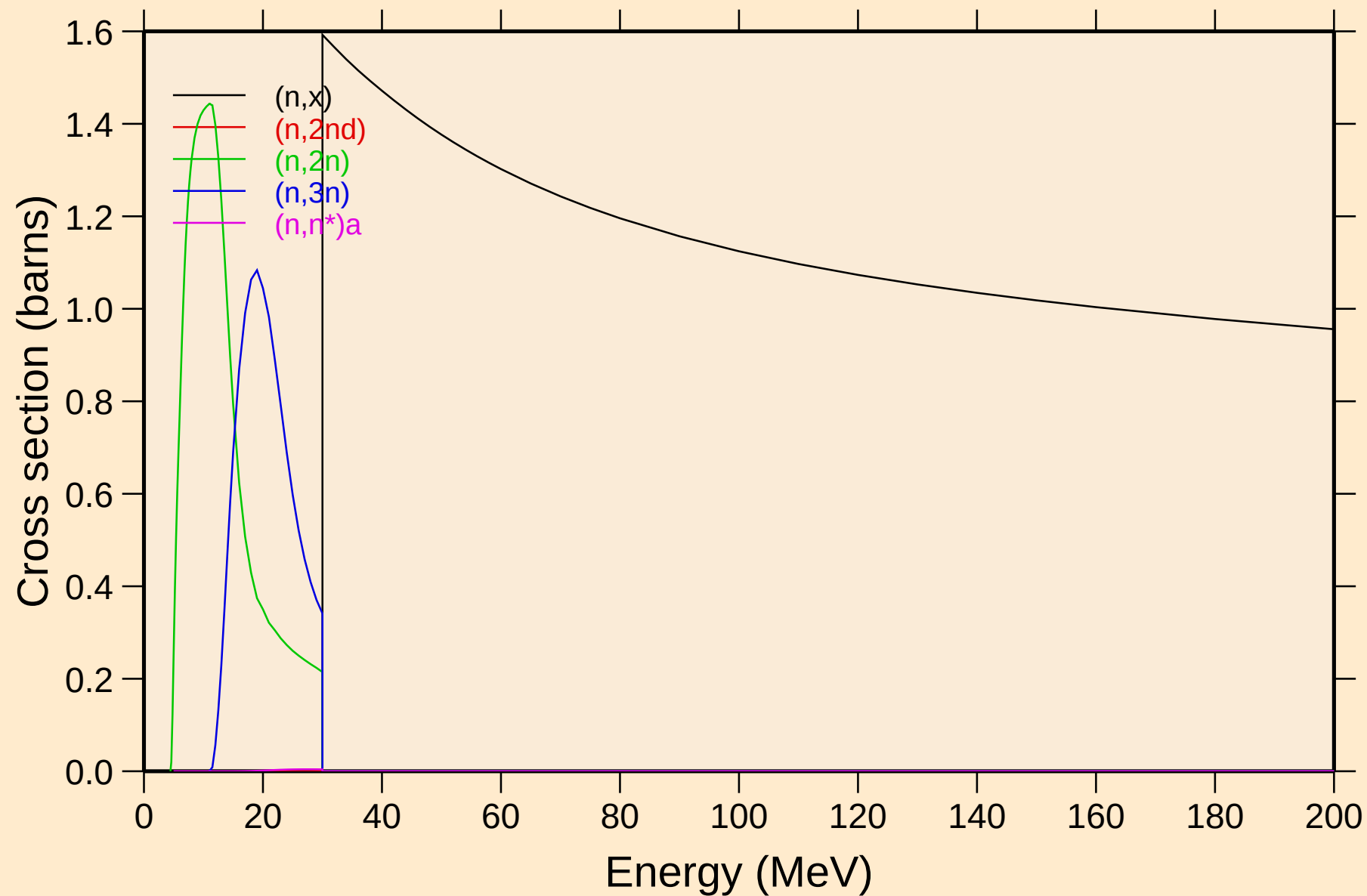
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Inelastic levels



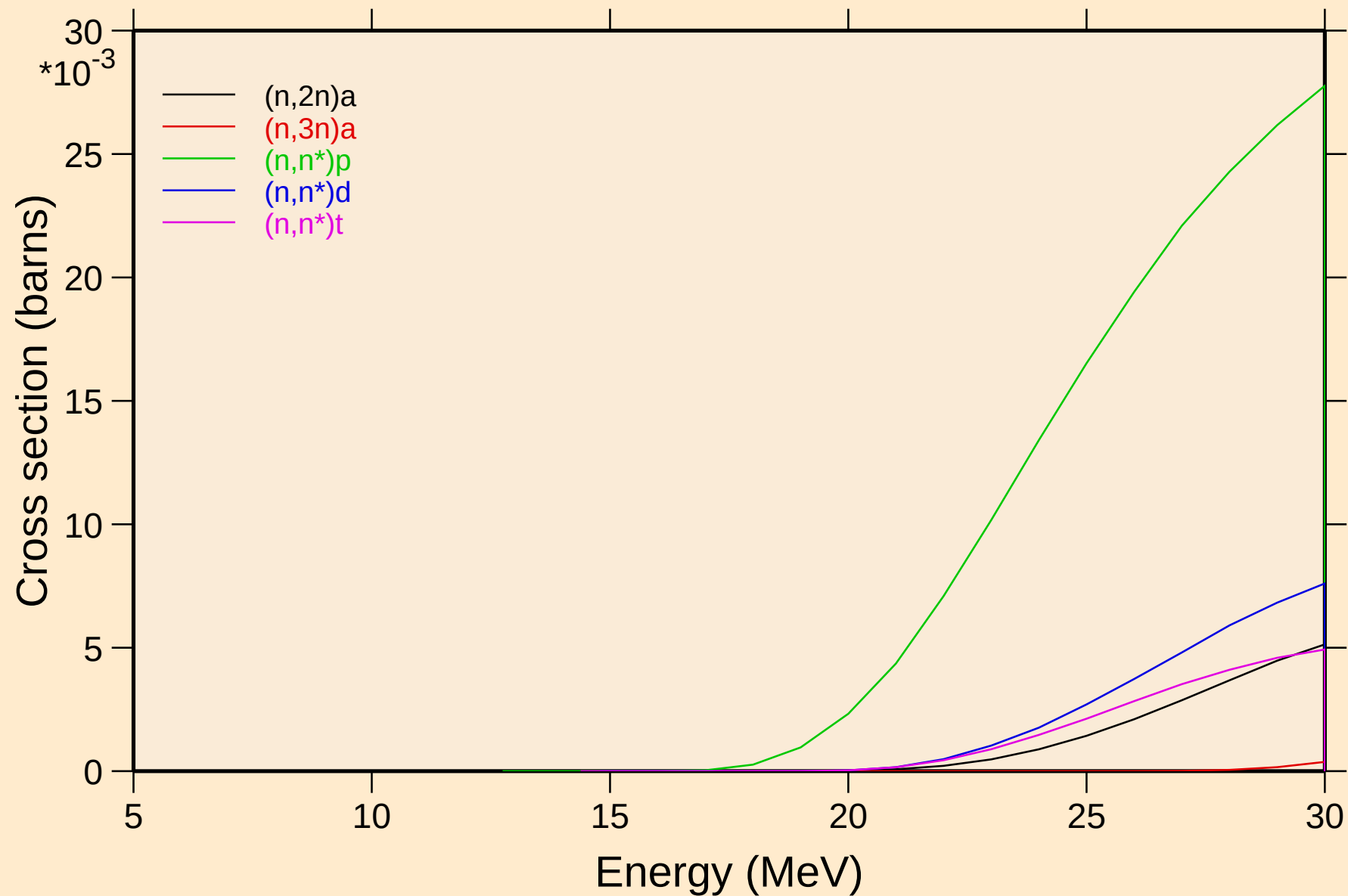
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions



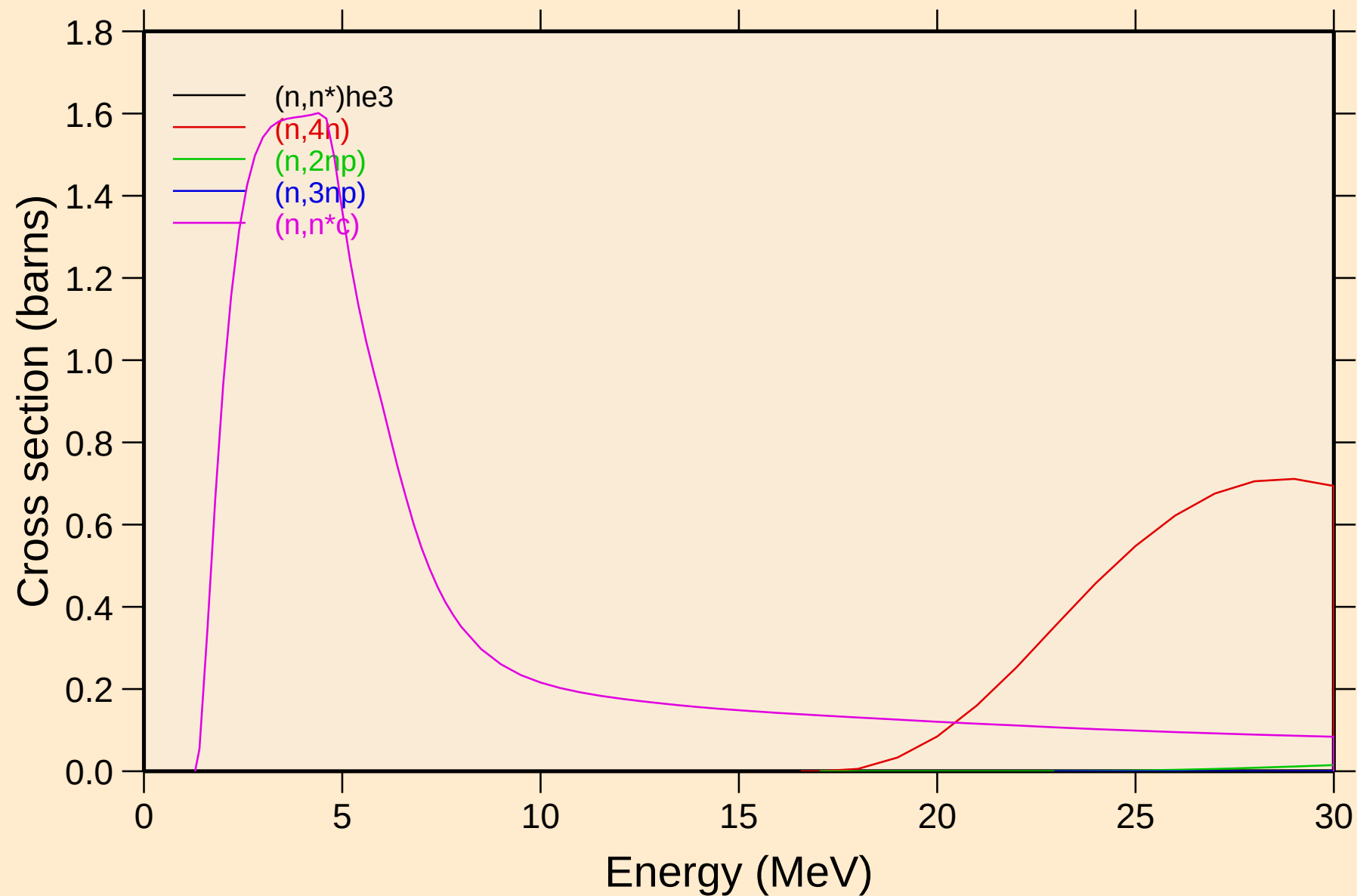
# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

## Threshold reactions

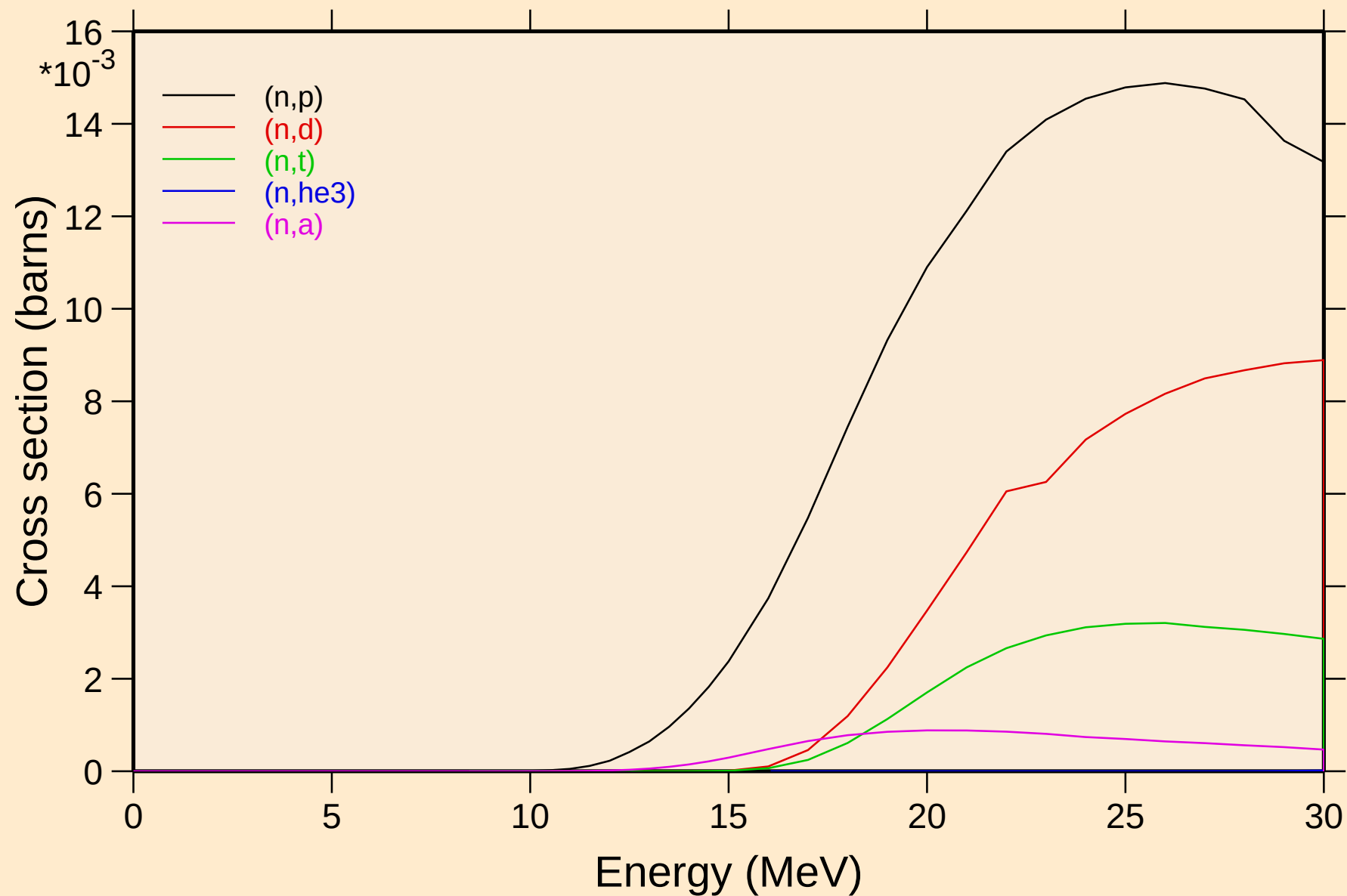




ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

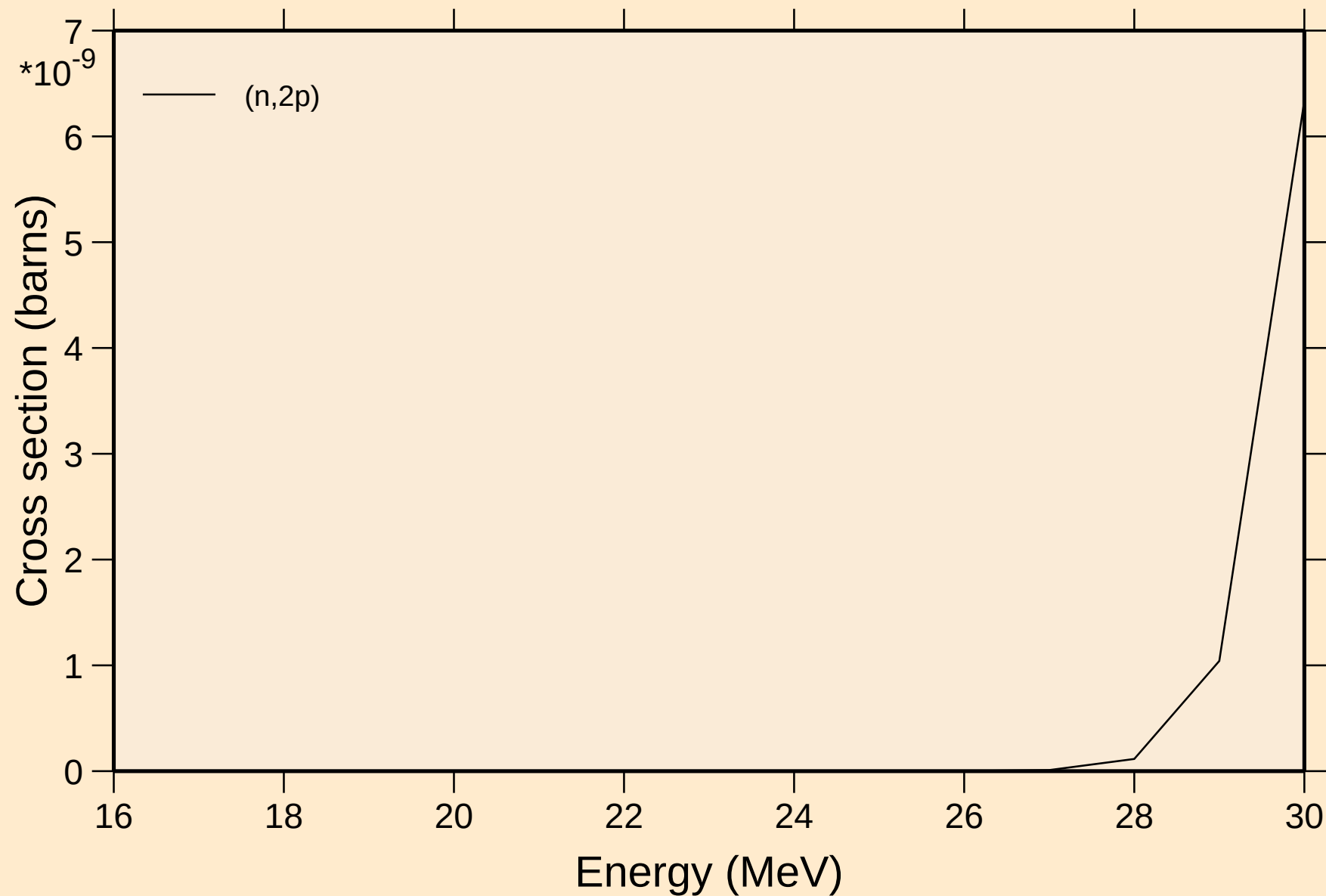


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

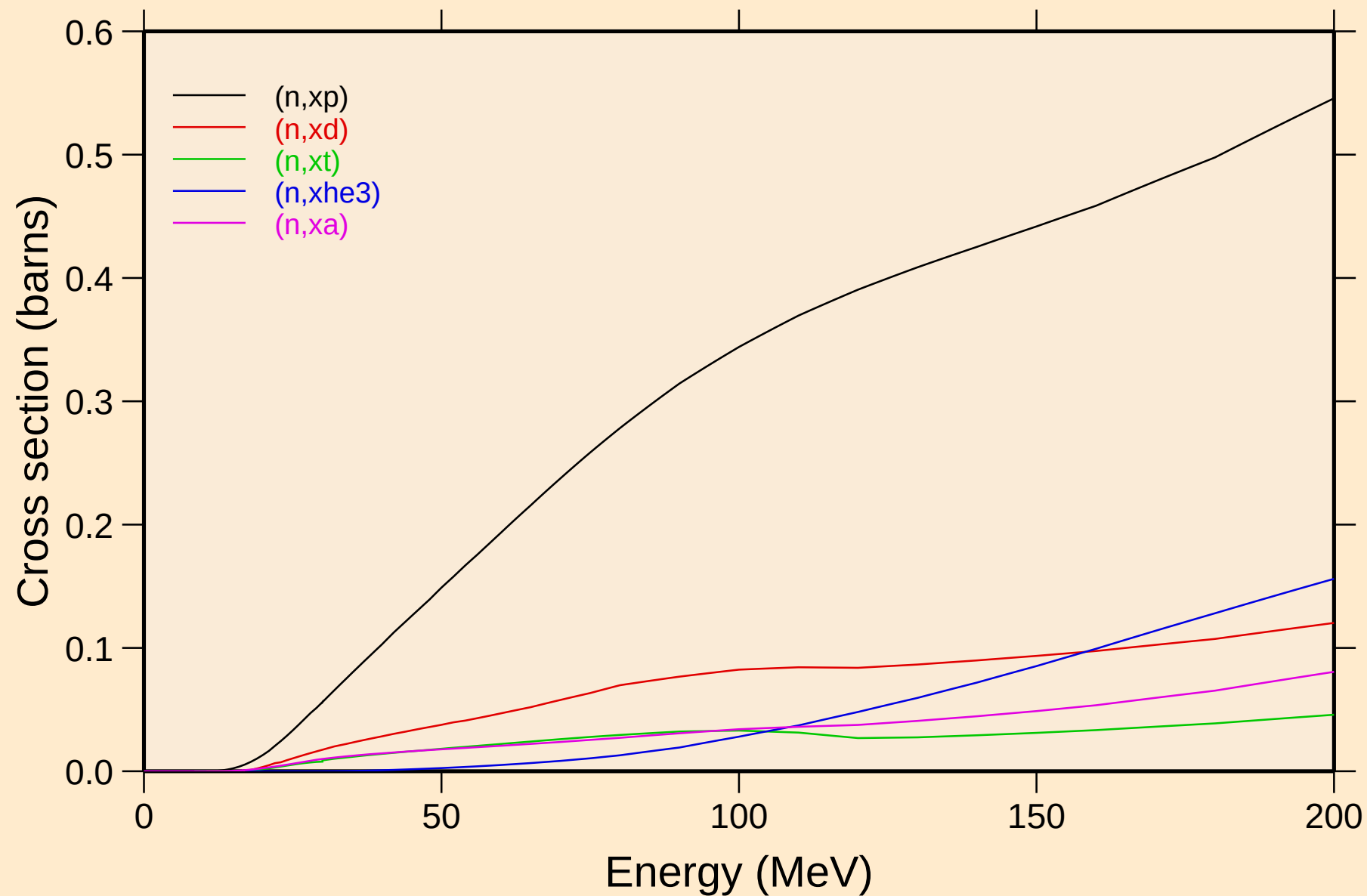


# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

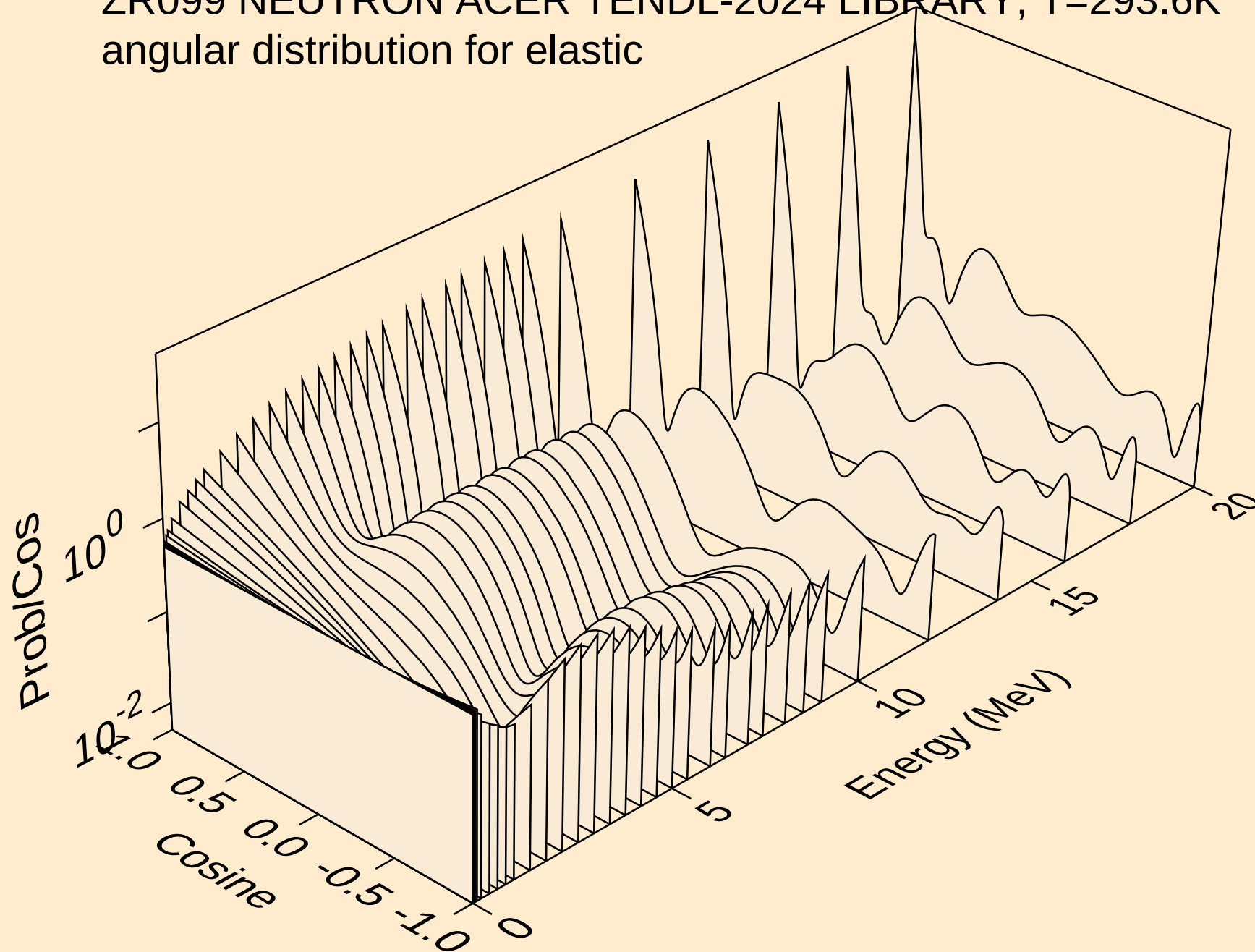
Threshold reactions



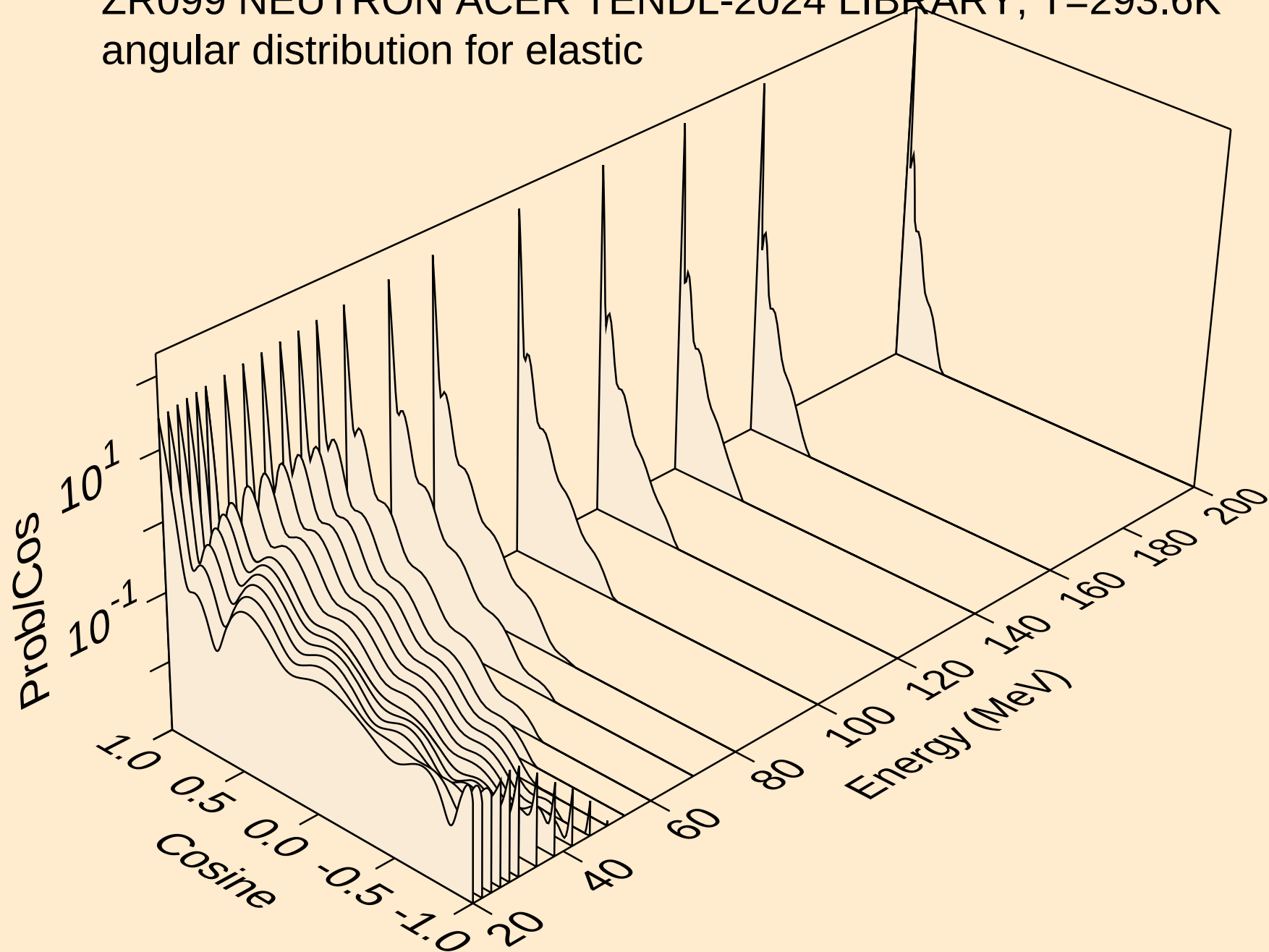
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions



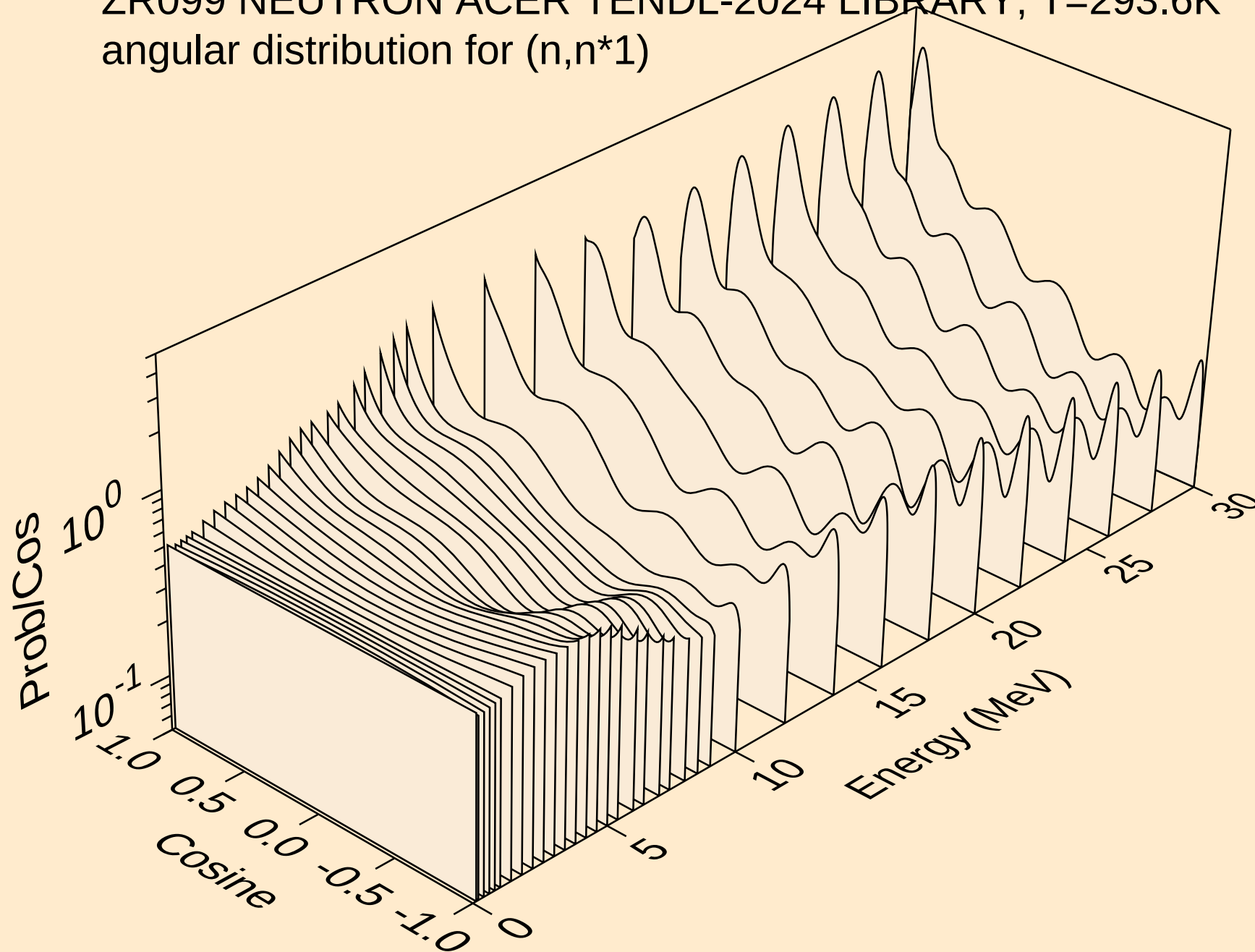
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



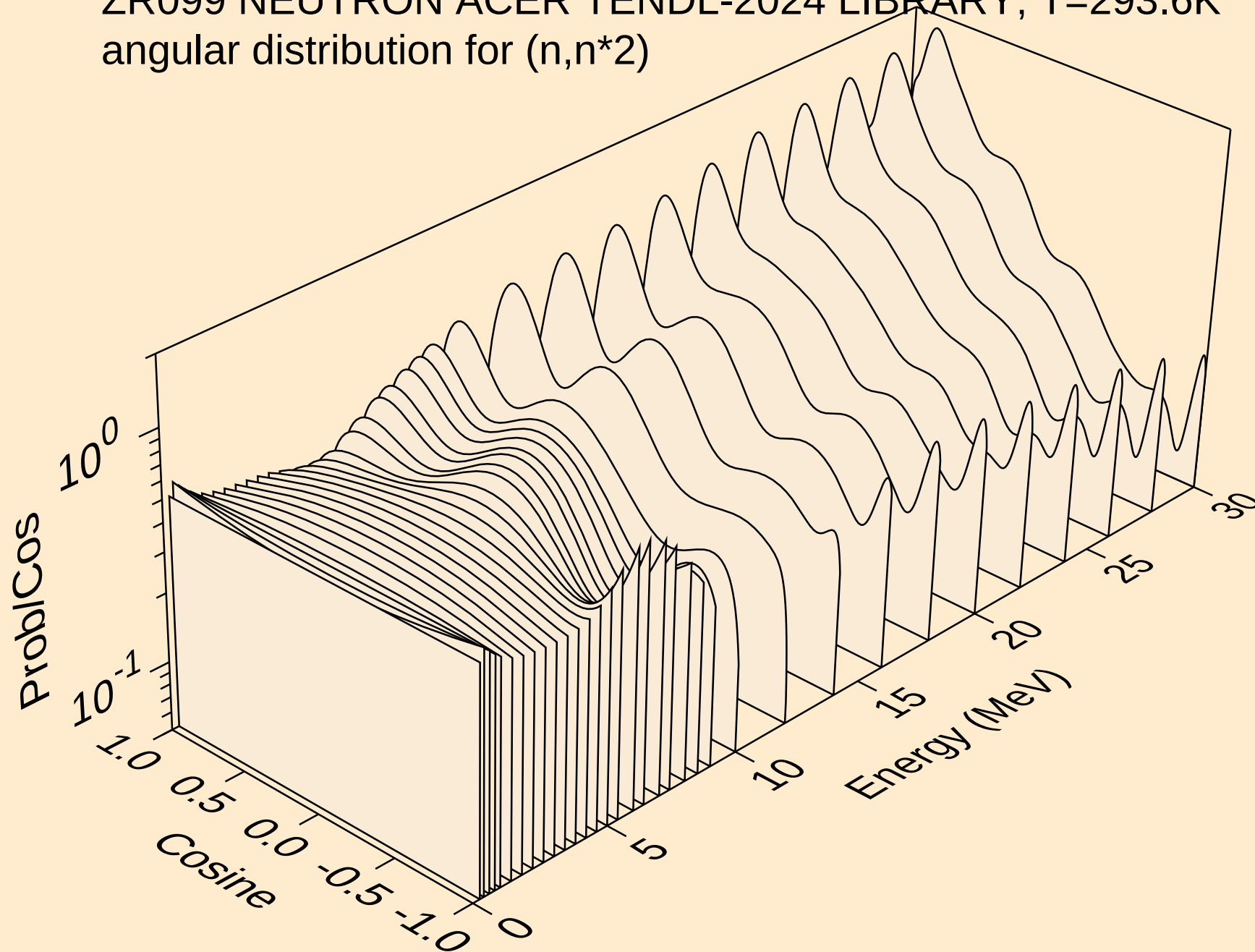
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for elastic



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

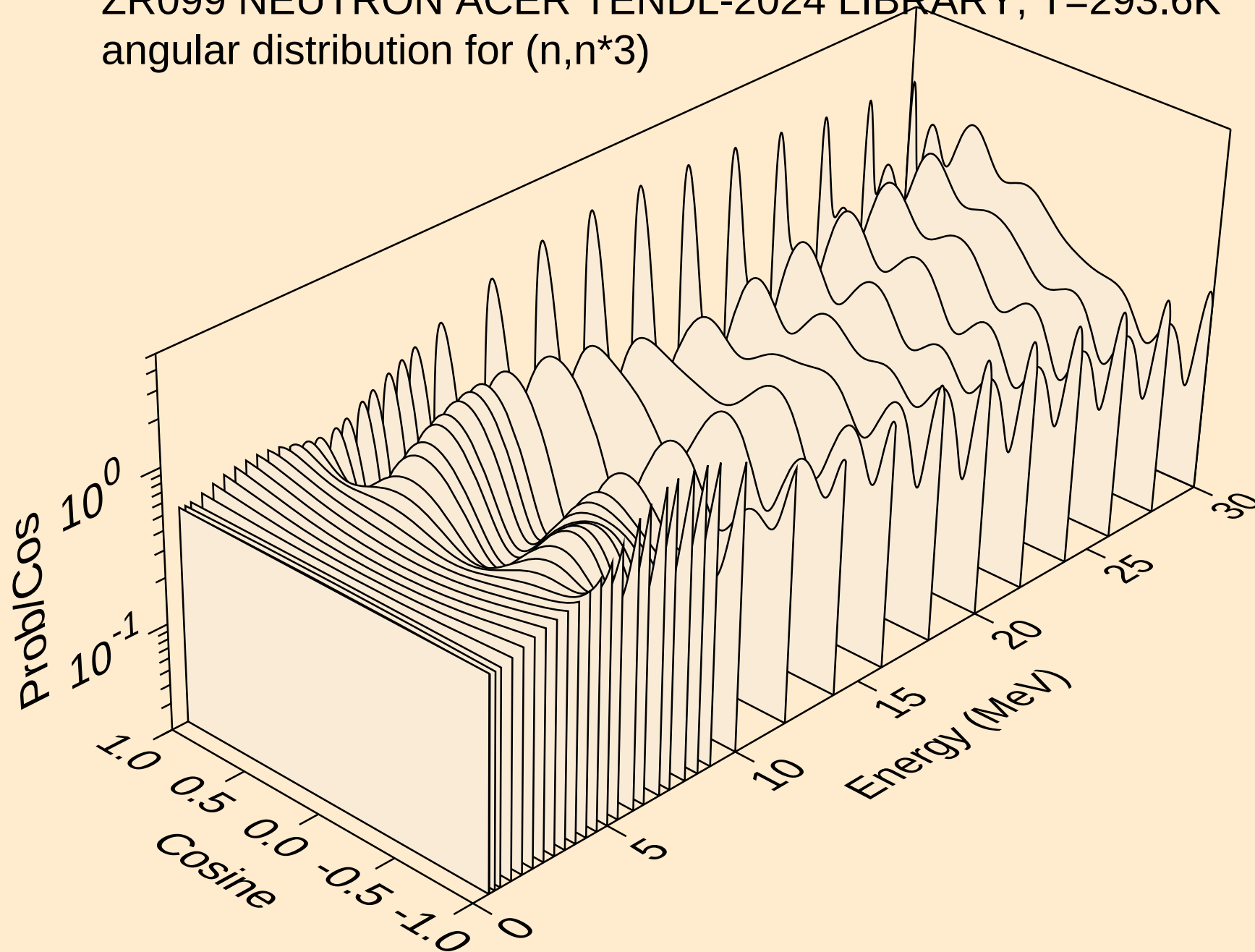


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)

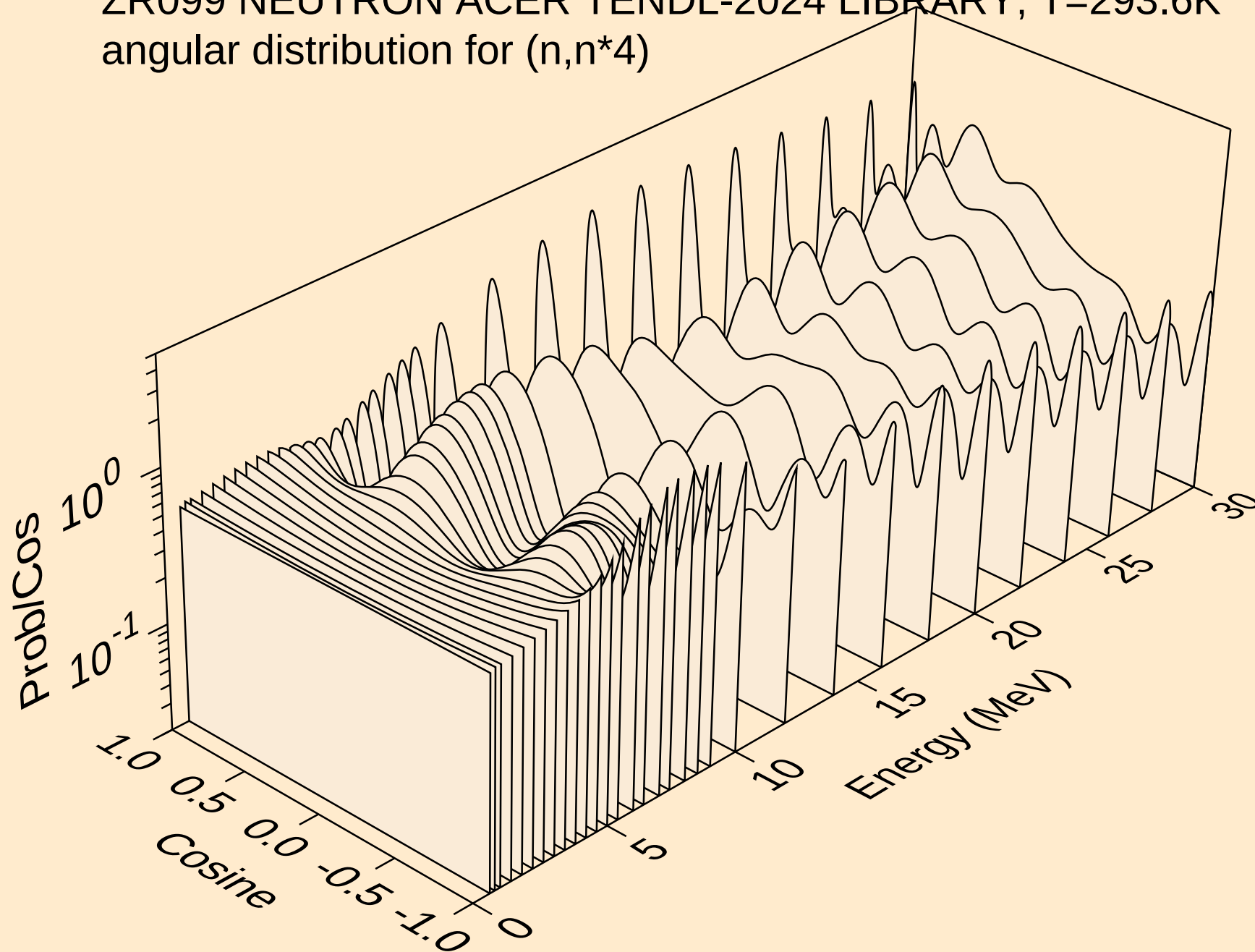




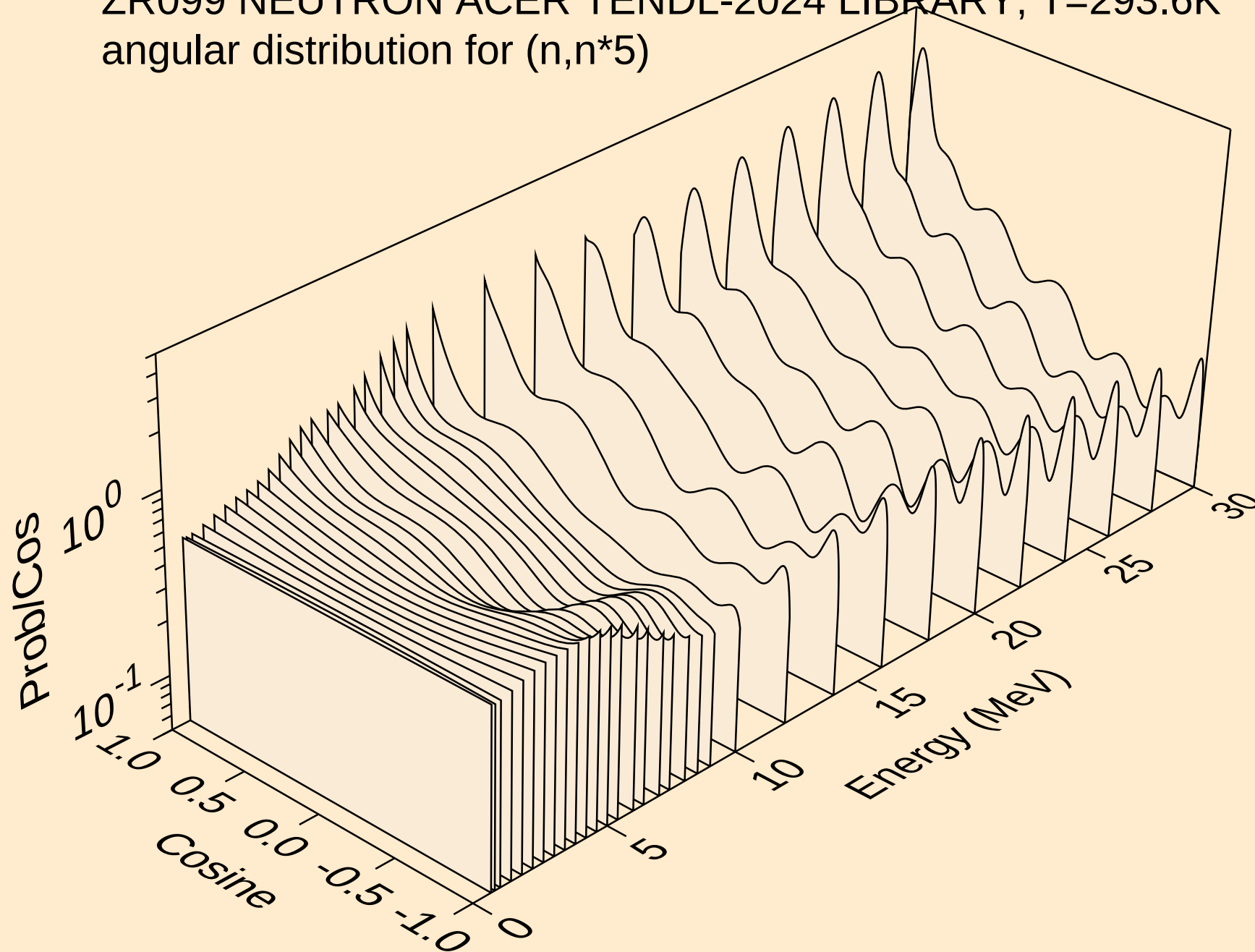
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



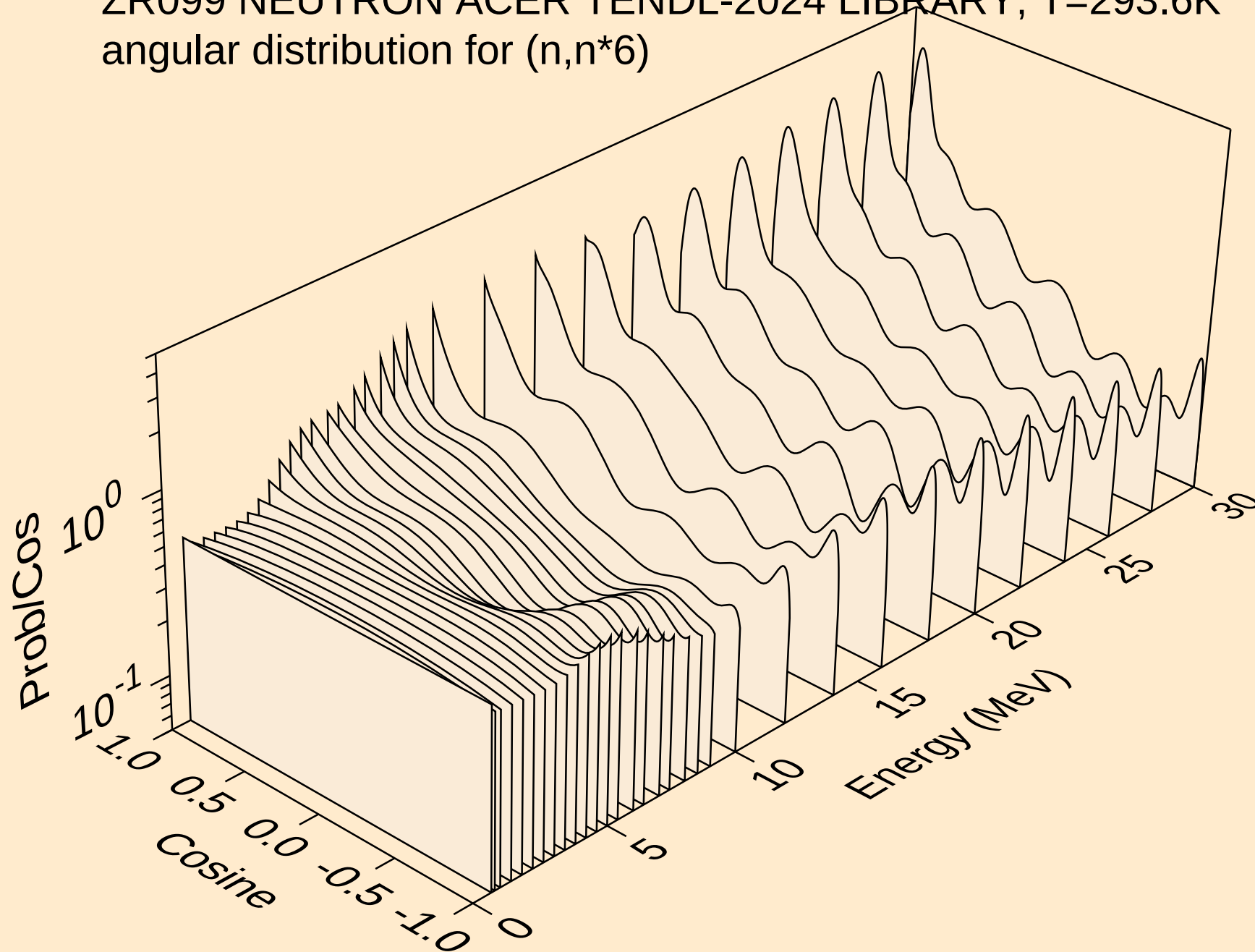
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*4)



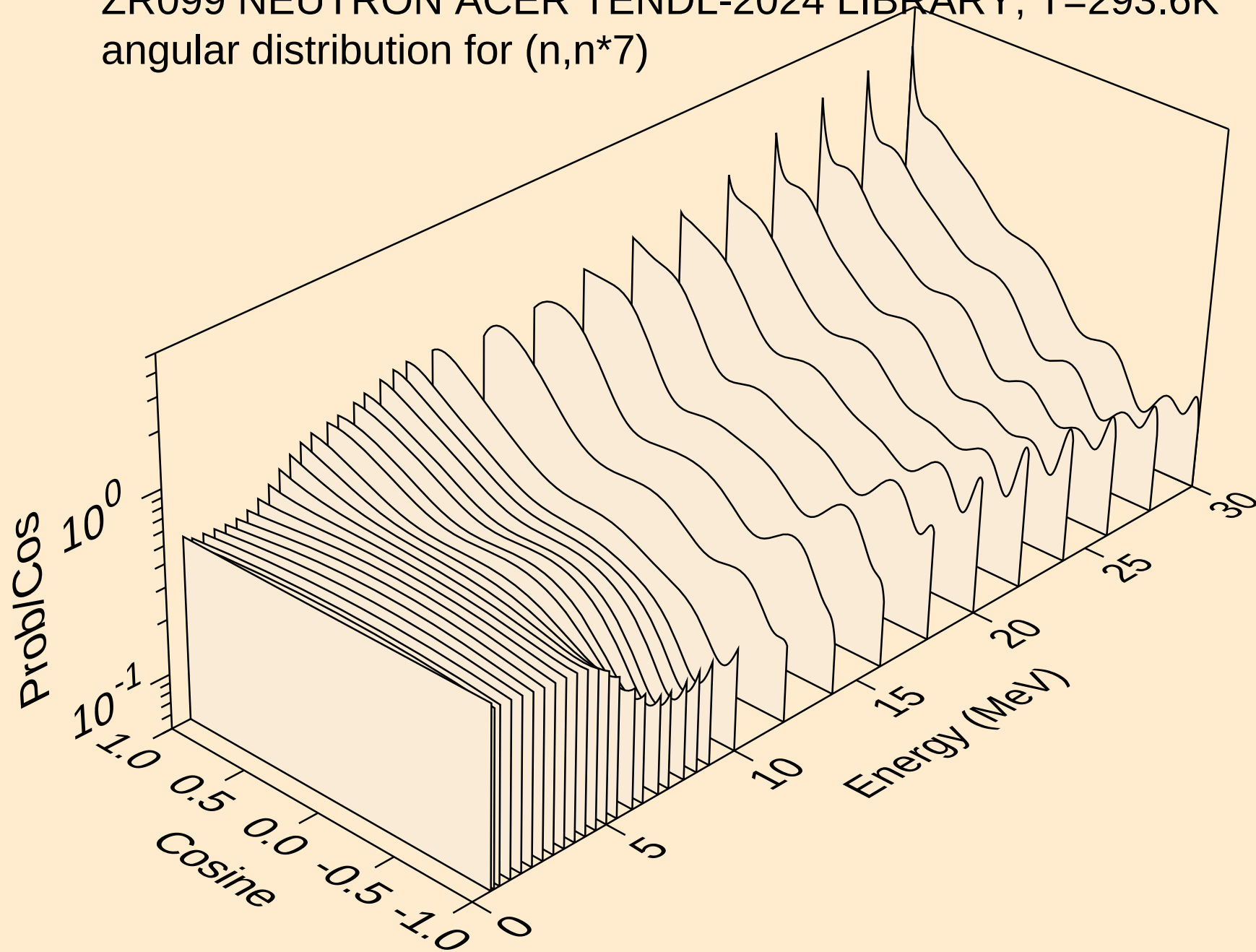
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*5)



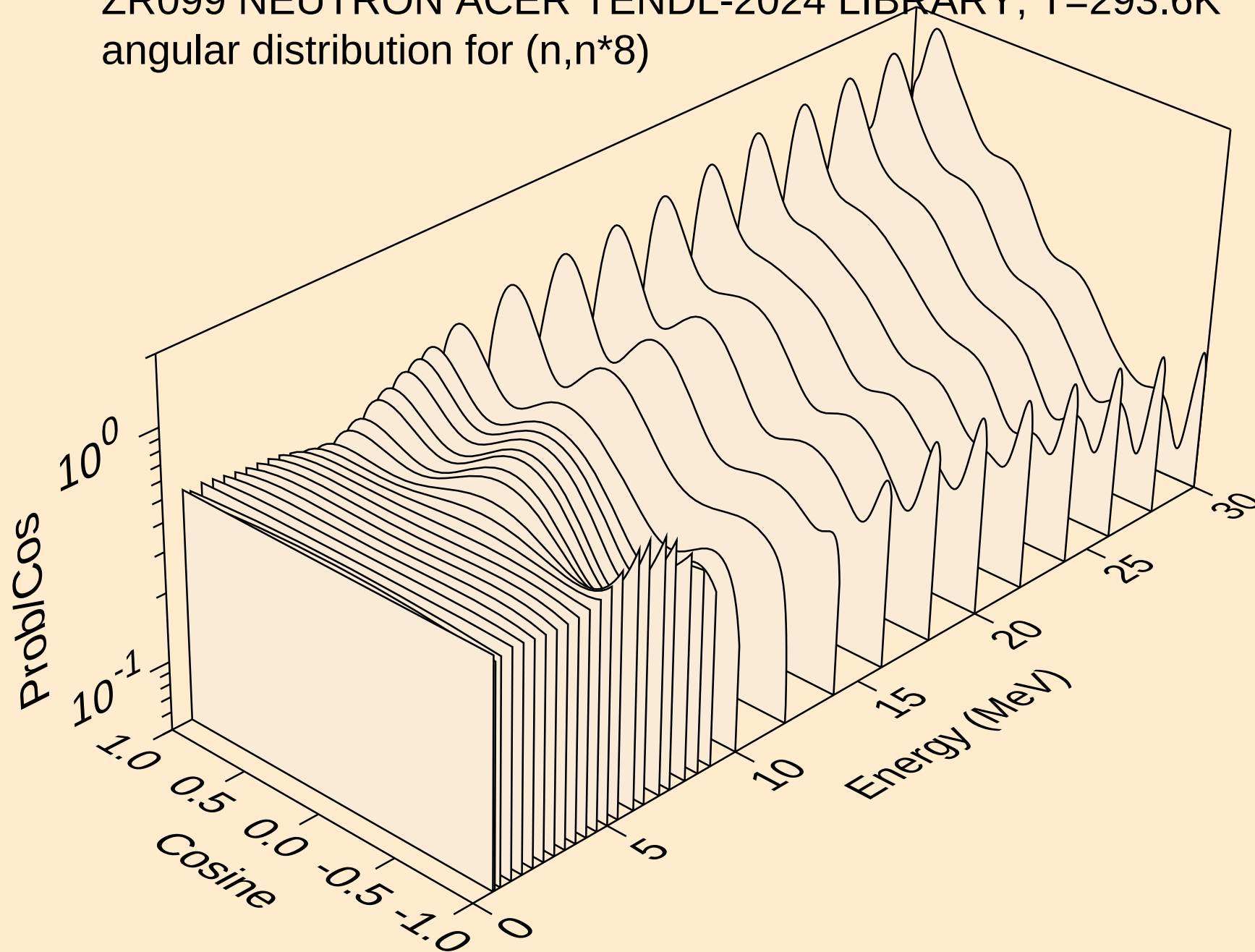
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*6)



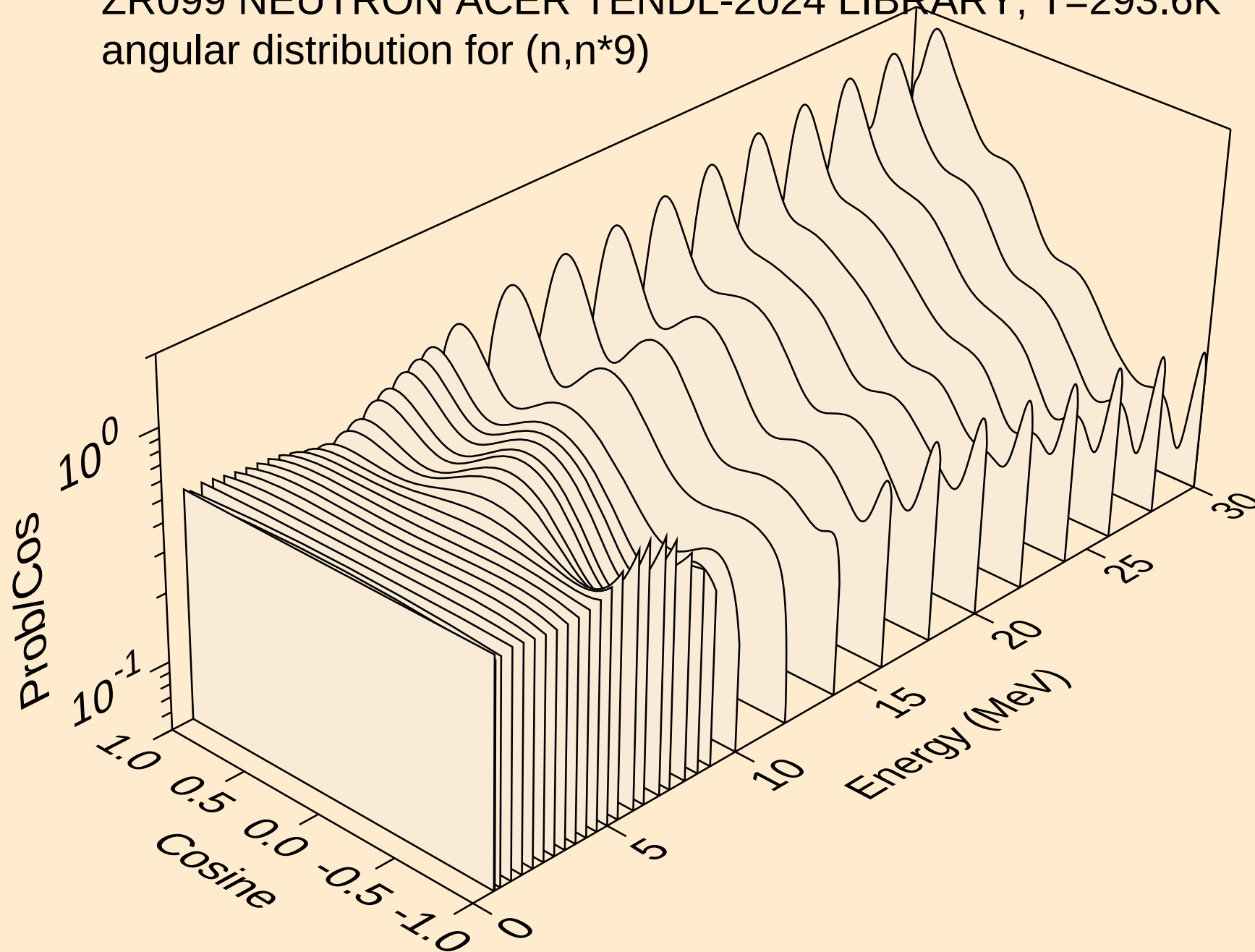
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

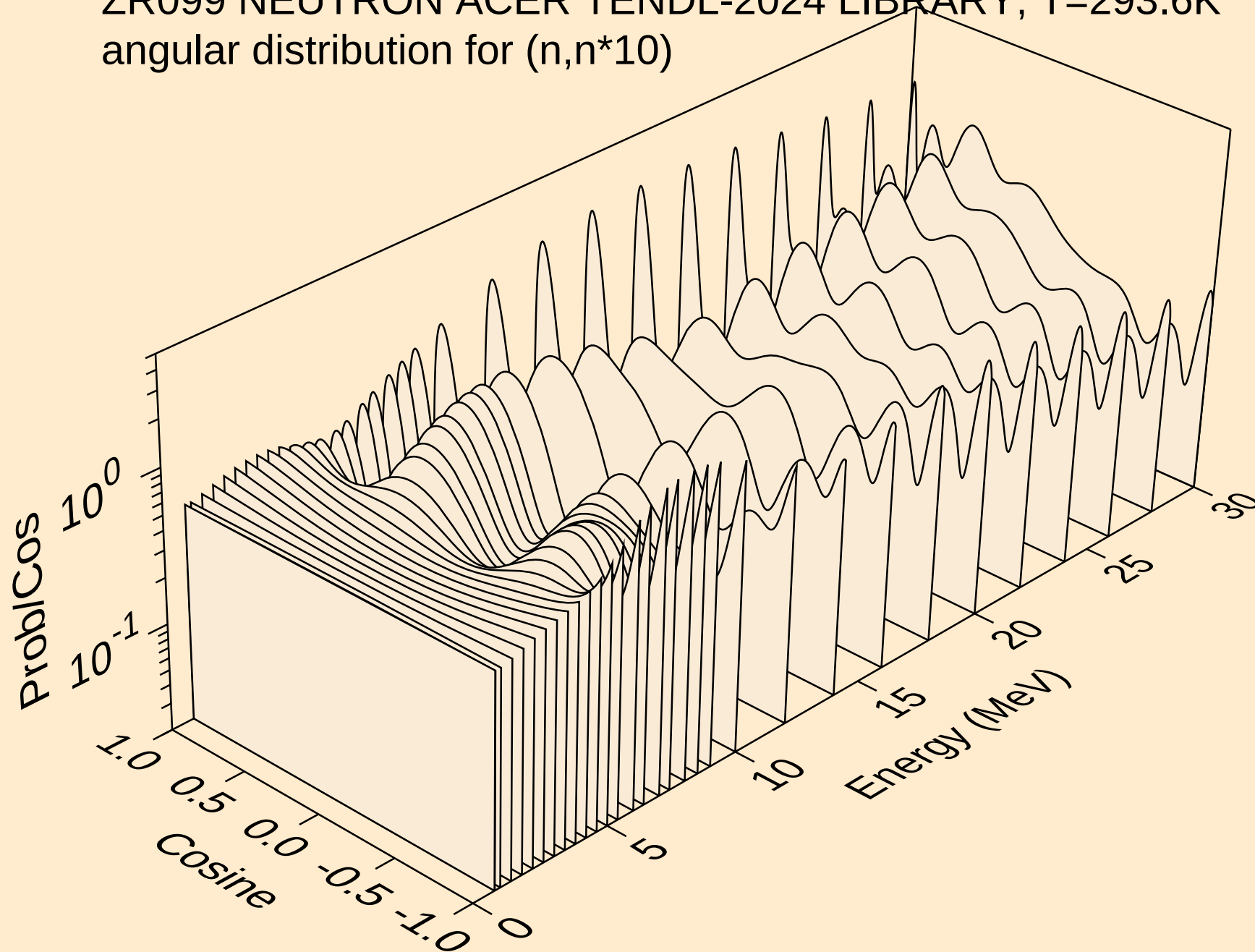


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)



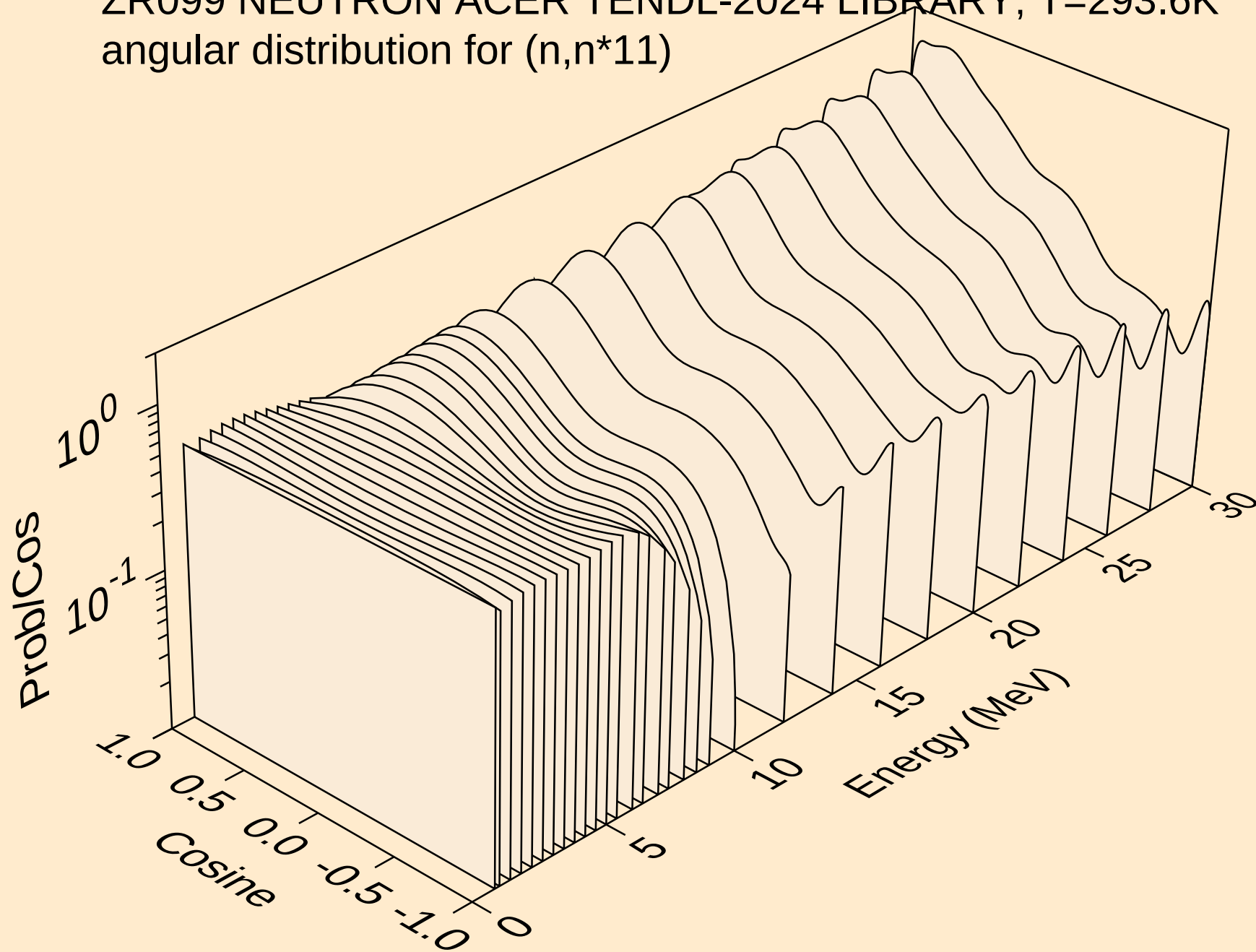


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*10)

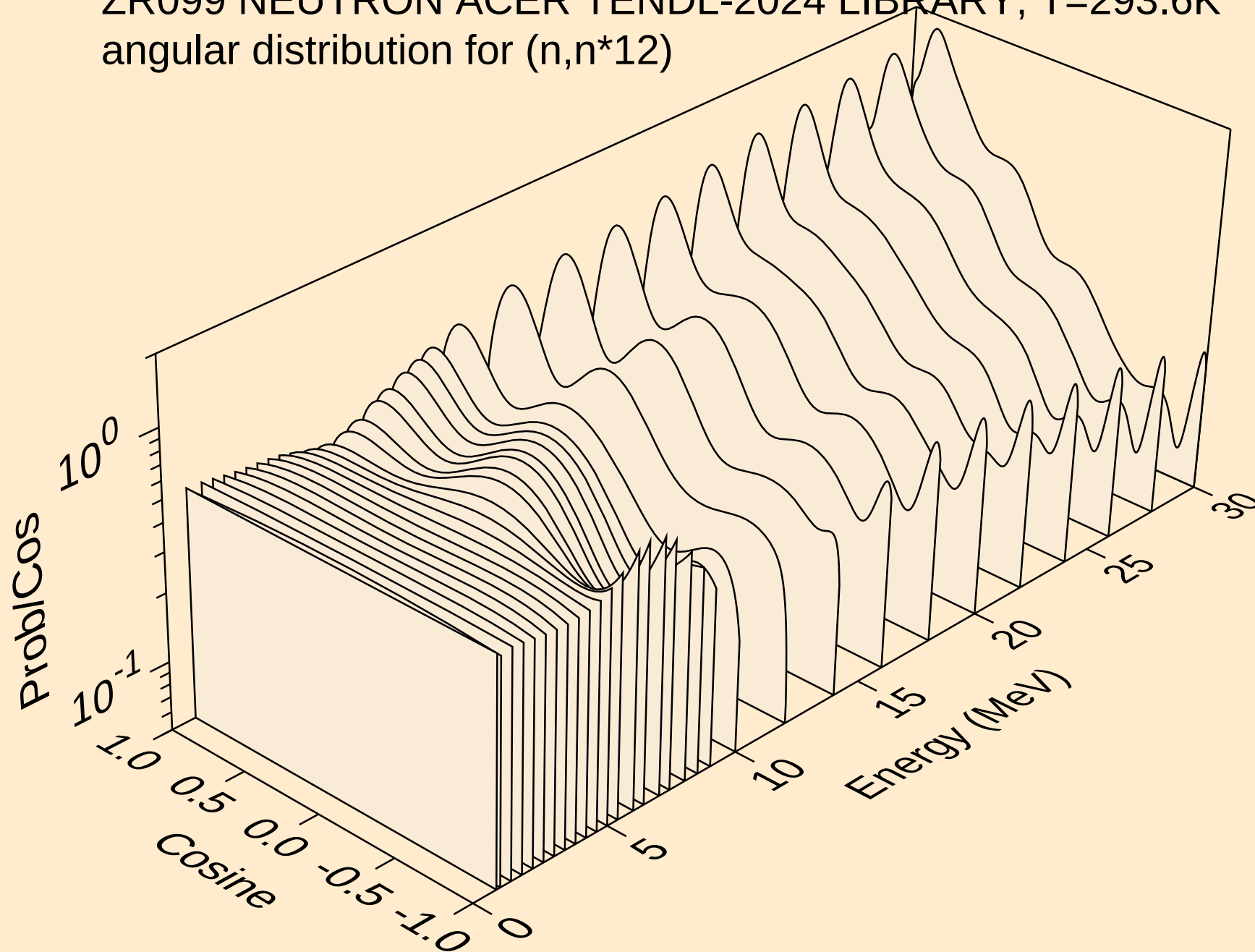




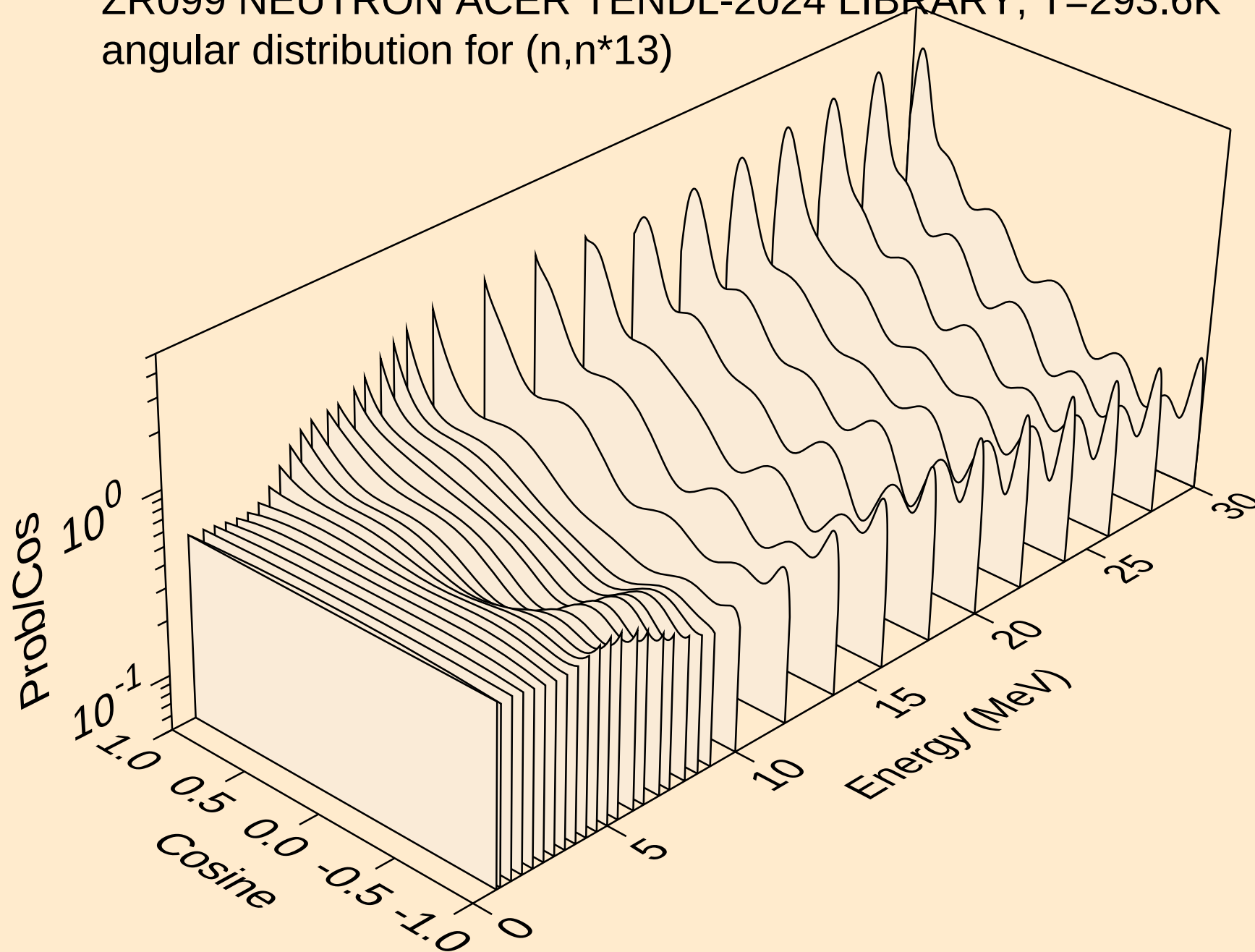
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*11)



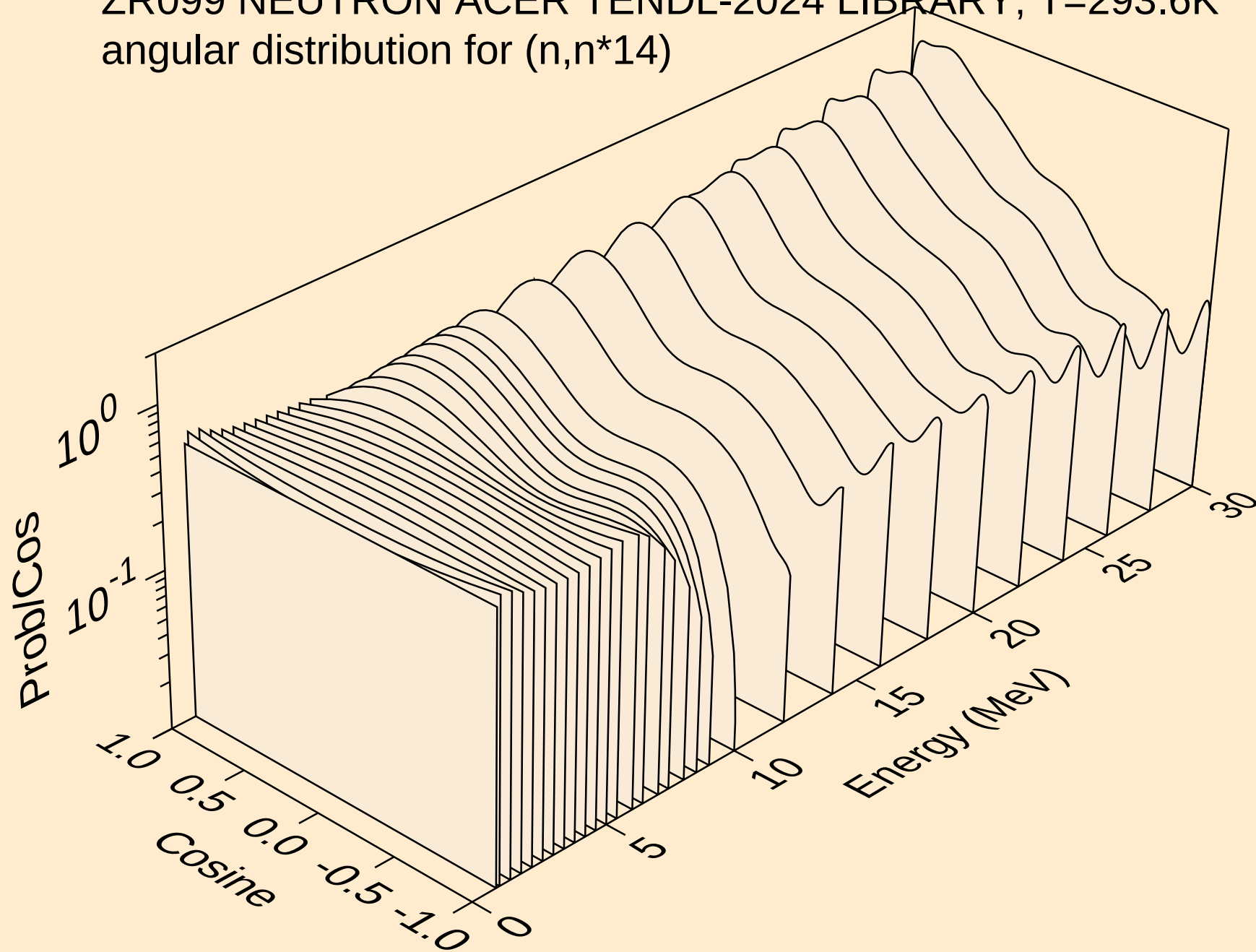
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*12)



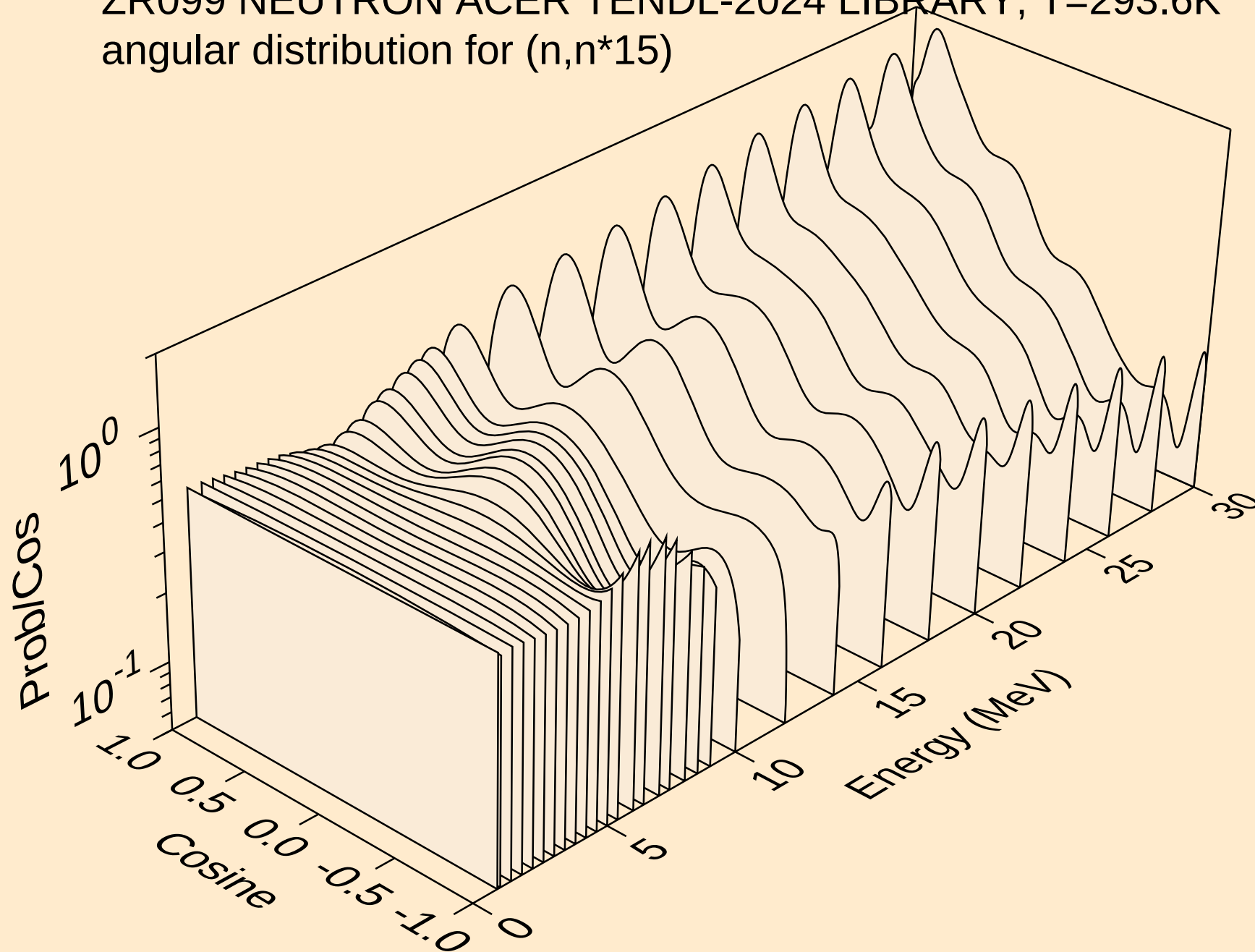
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angular distribution for (n,n\*13)



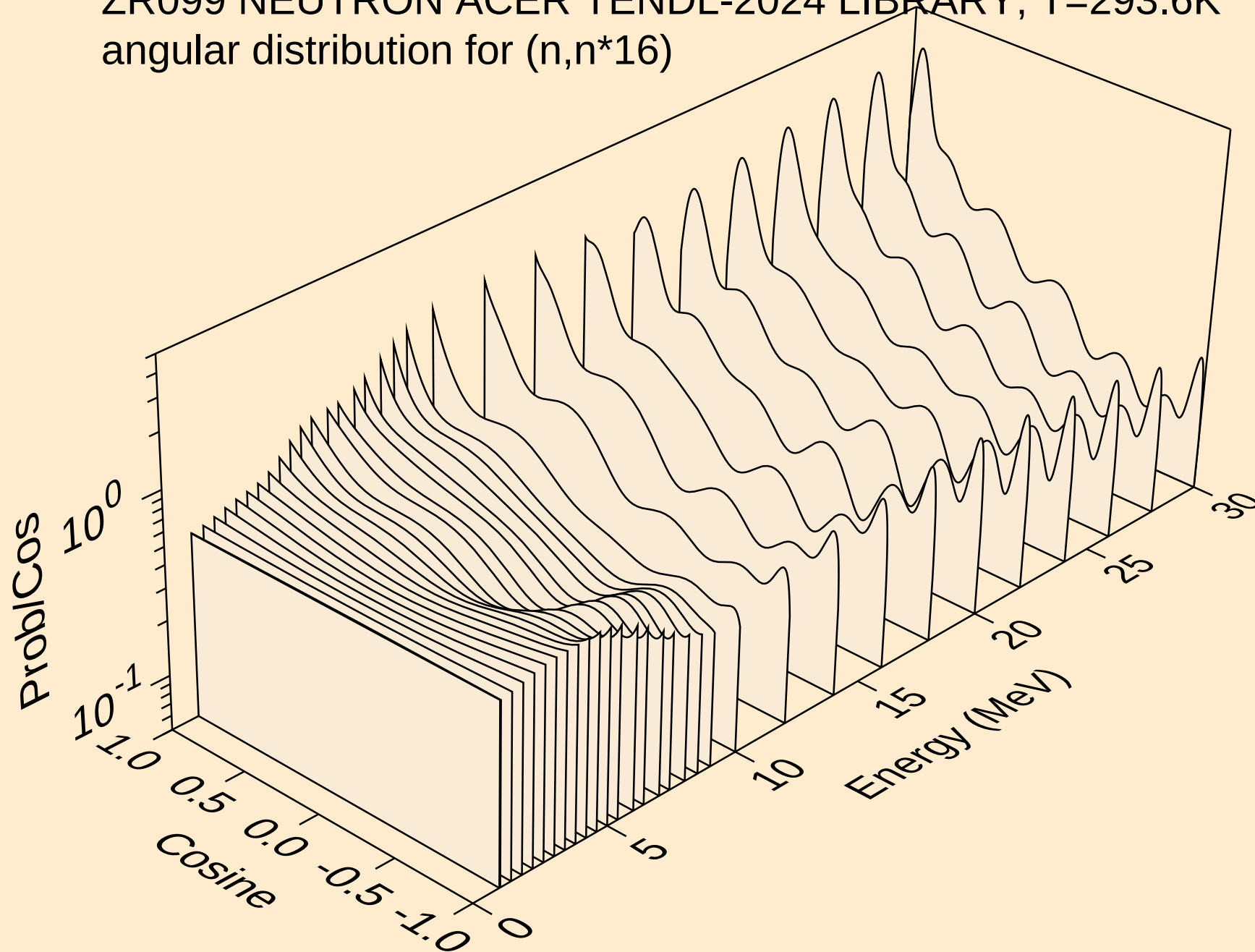
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angular distribution for (n,n\*14)



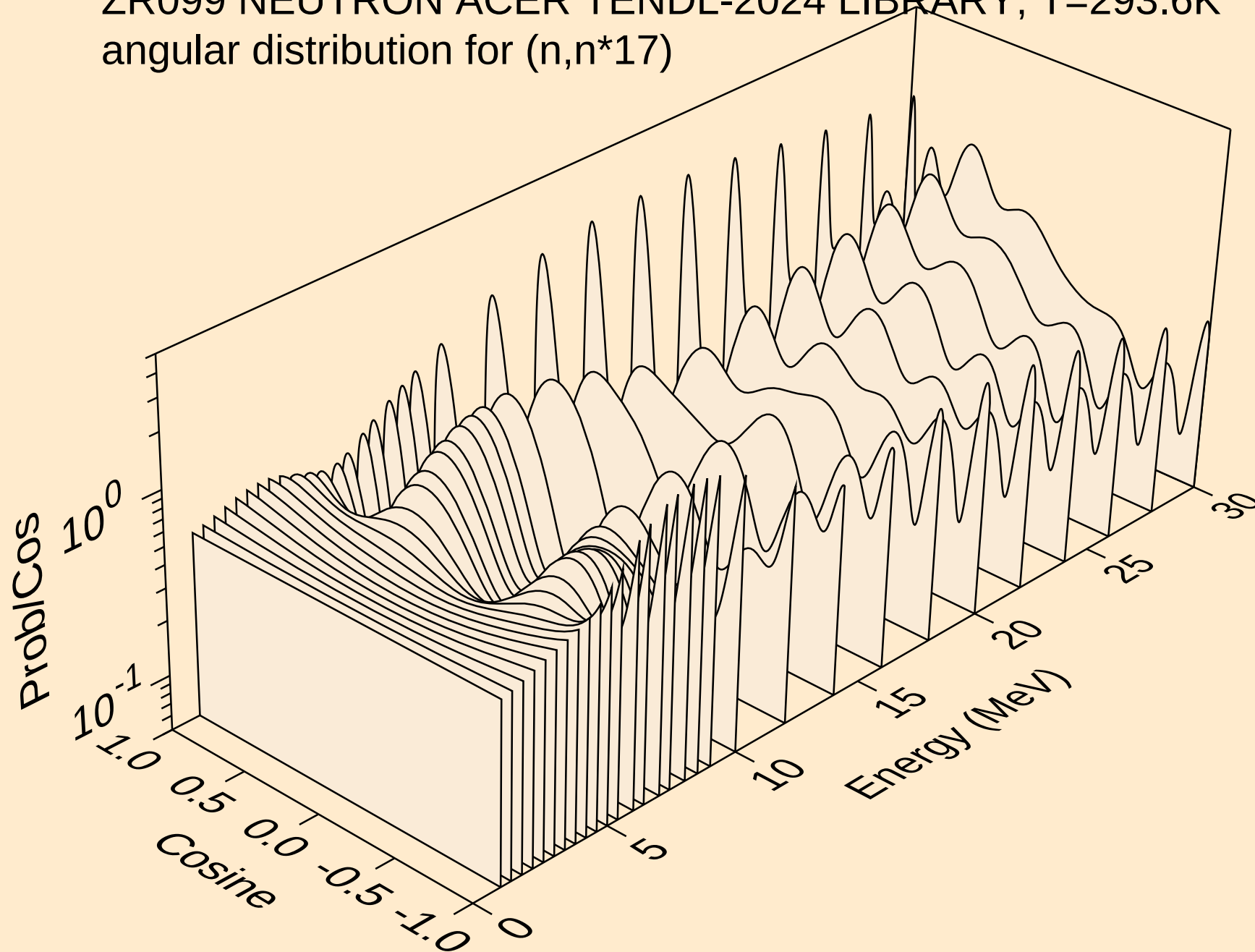
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angular distribution for (n,n\*15)



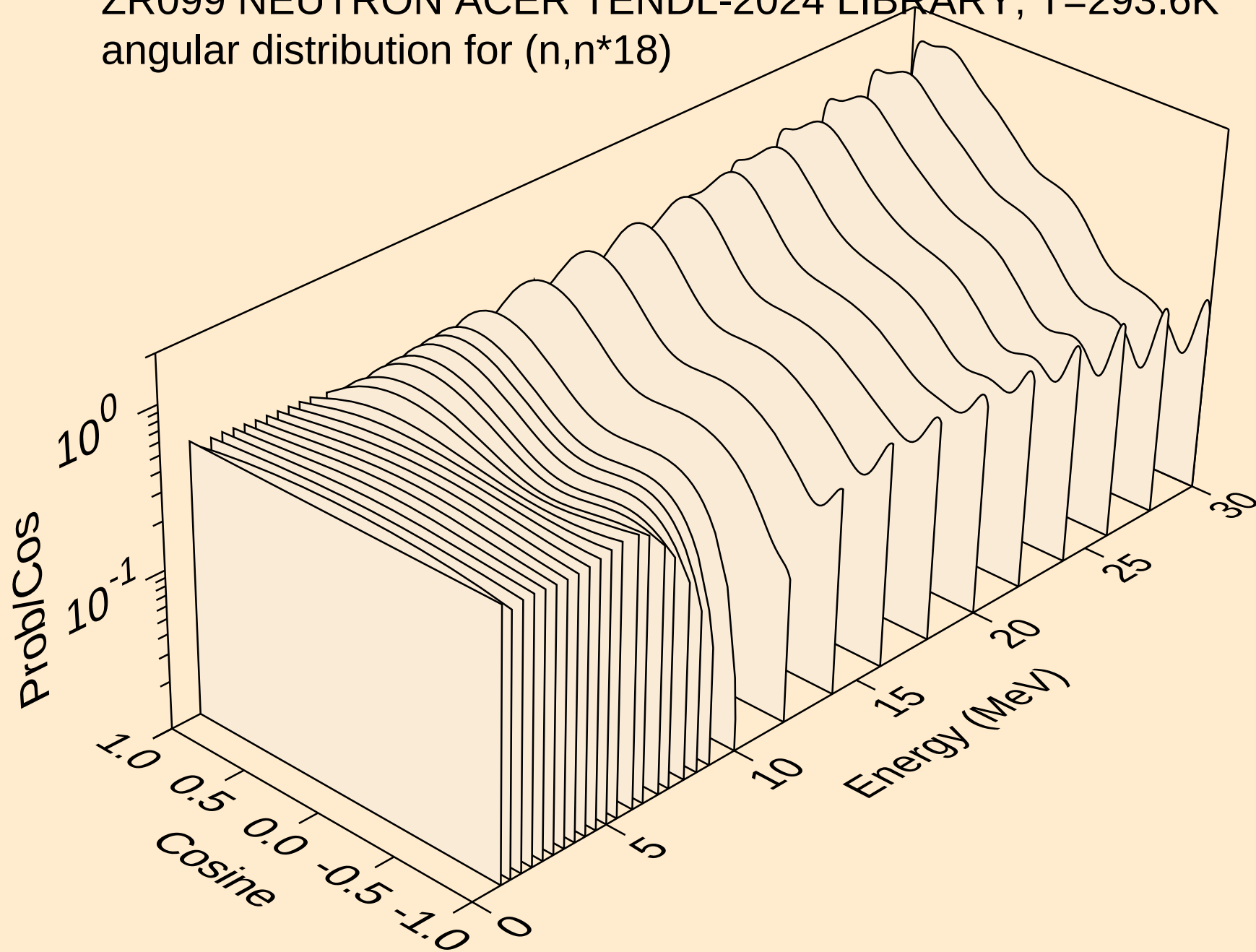
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

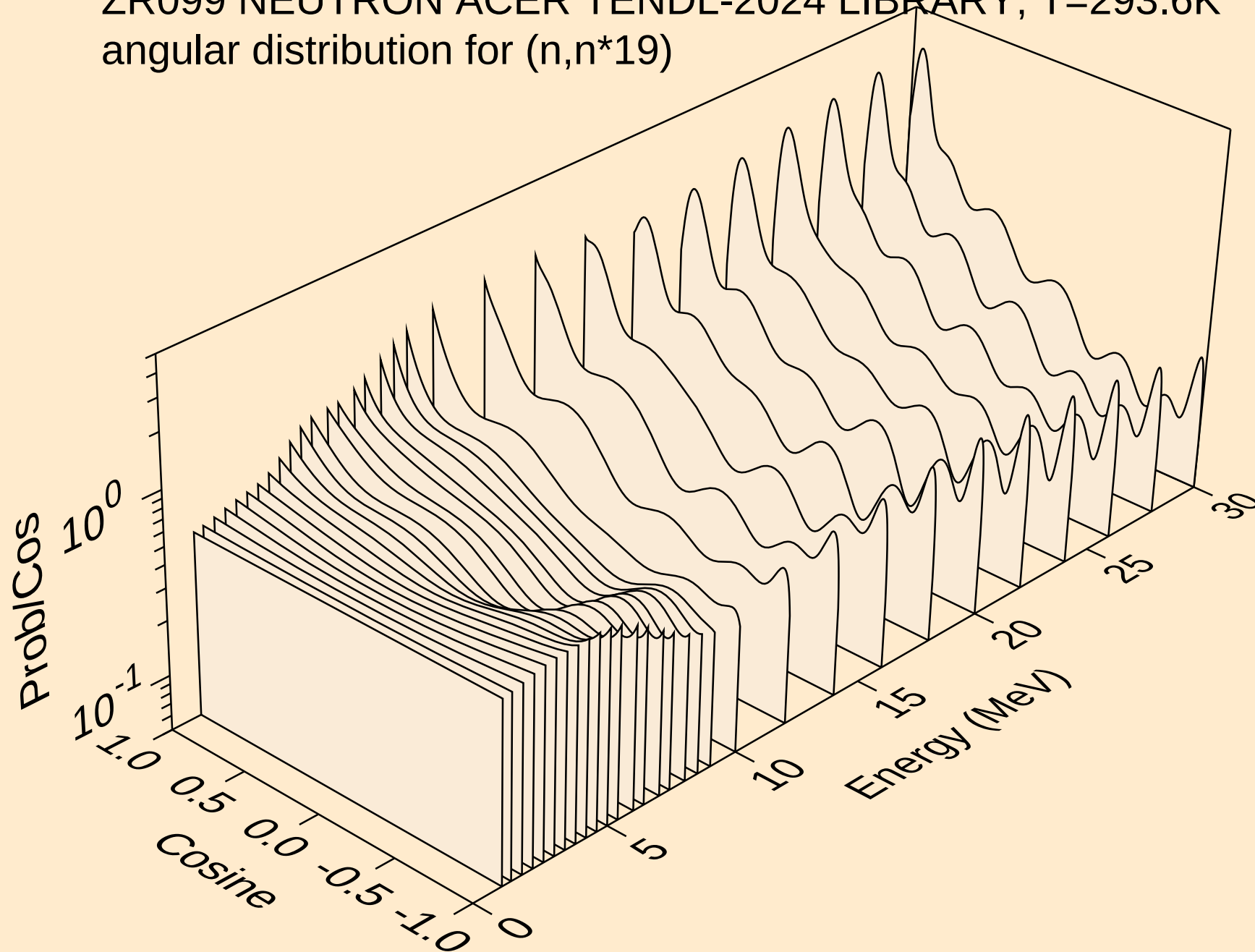


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*18)

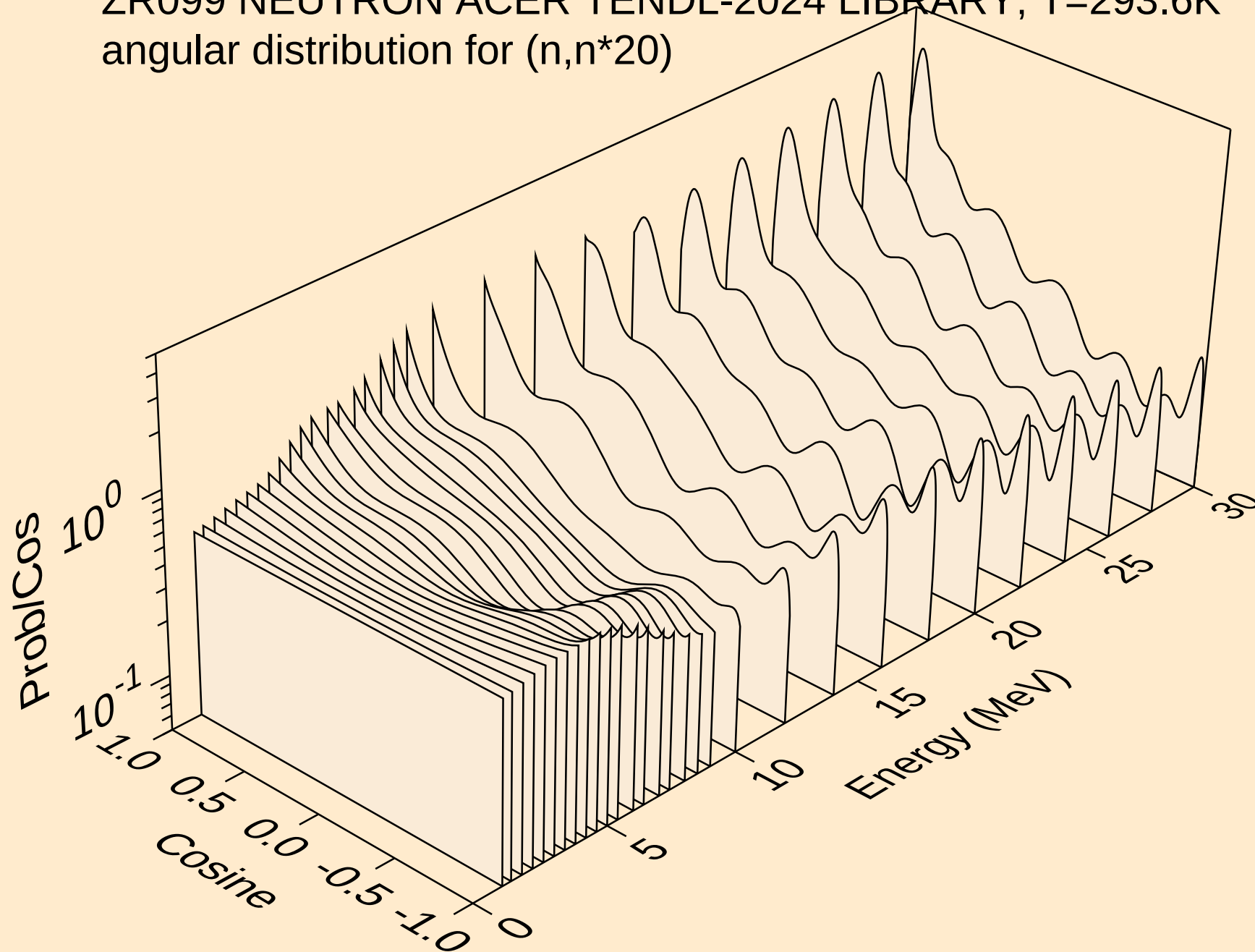




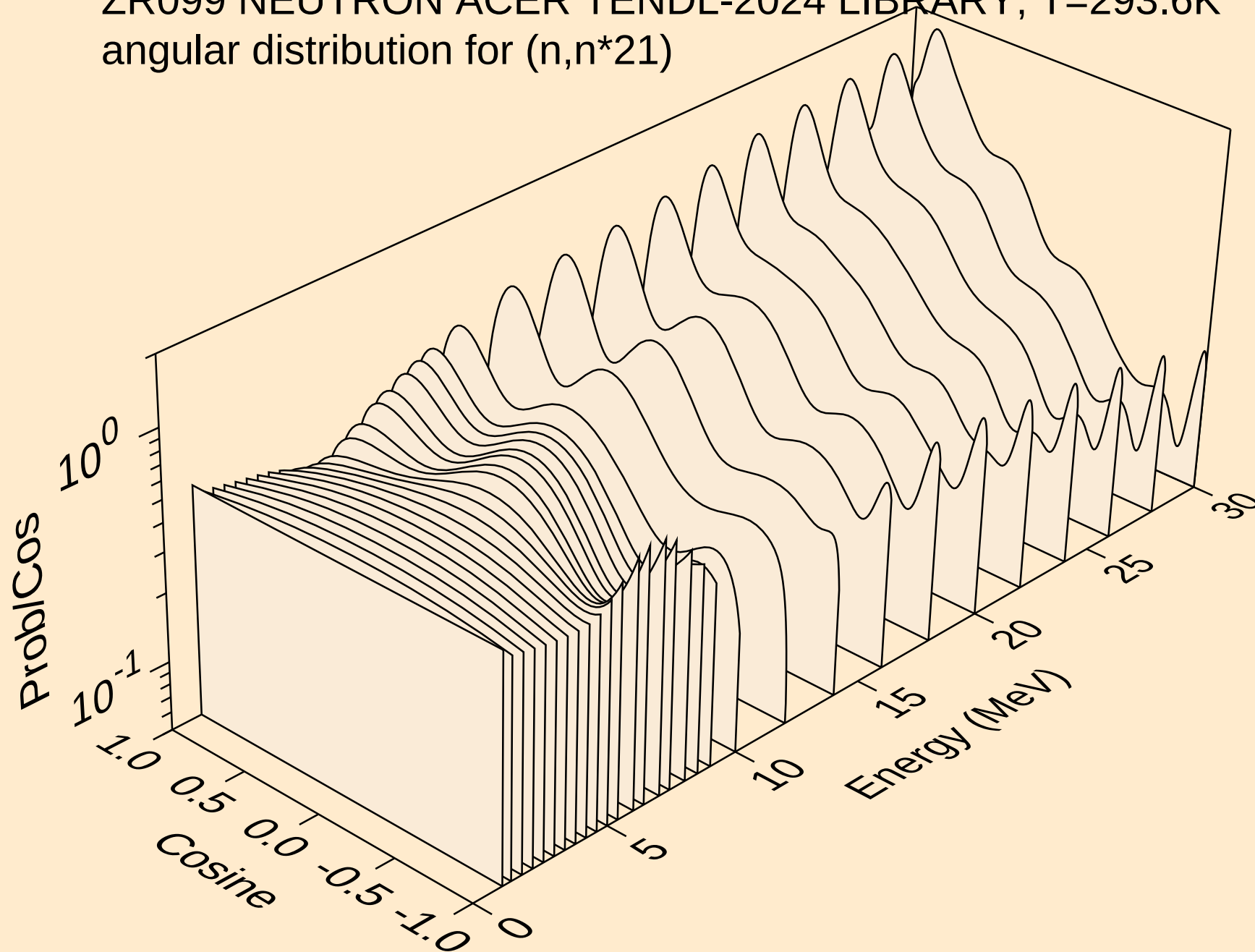
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angular distribution for (n,n\*19)



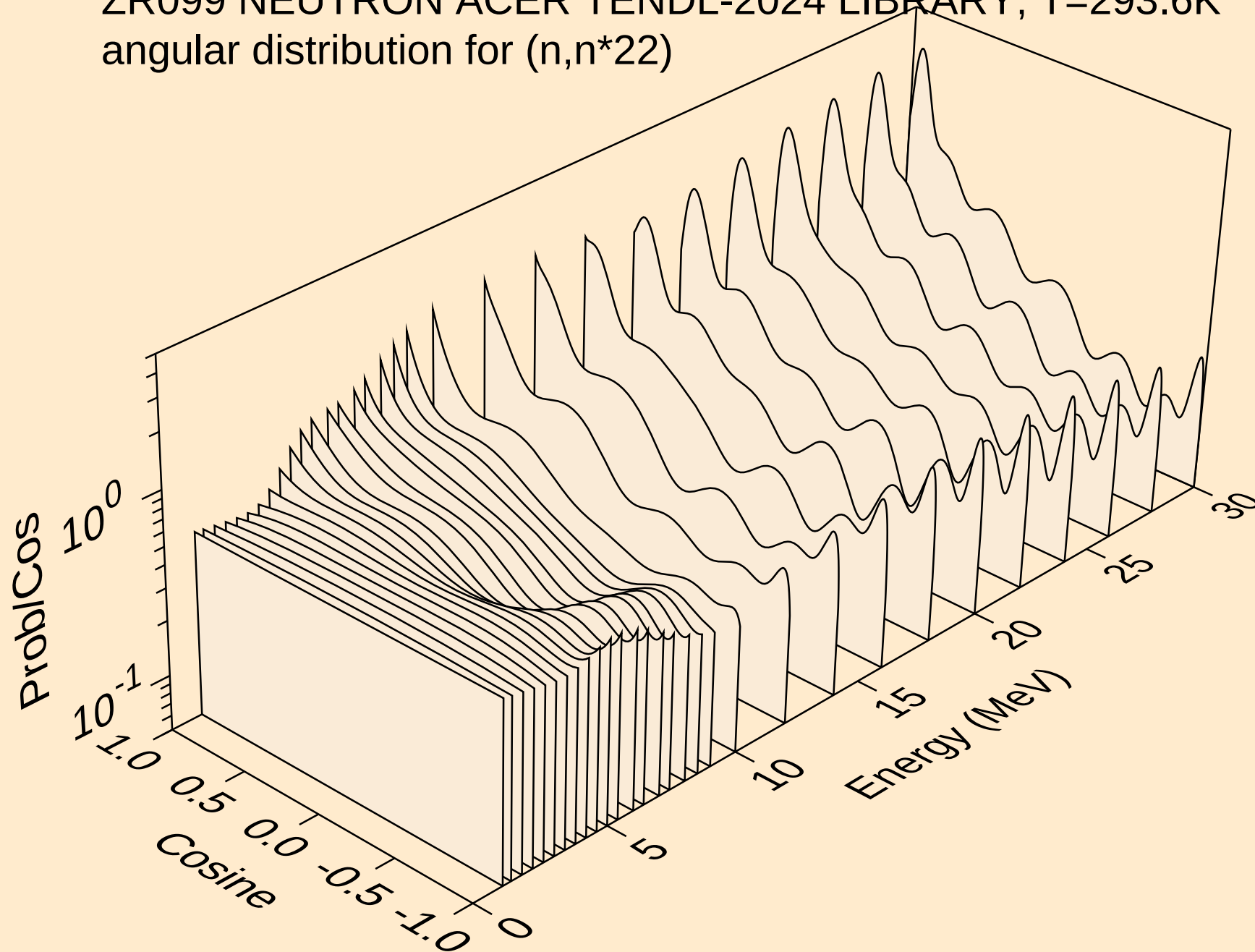
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angular distribution for (n,n\*20)



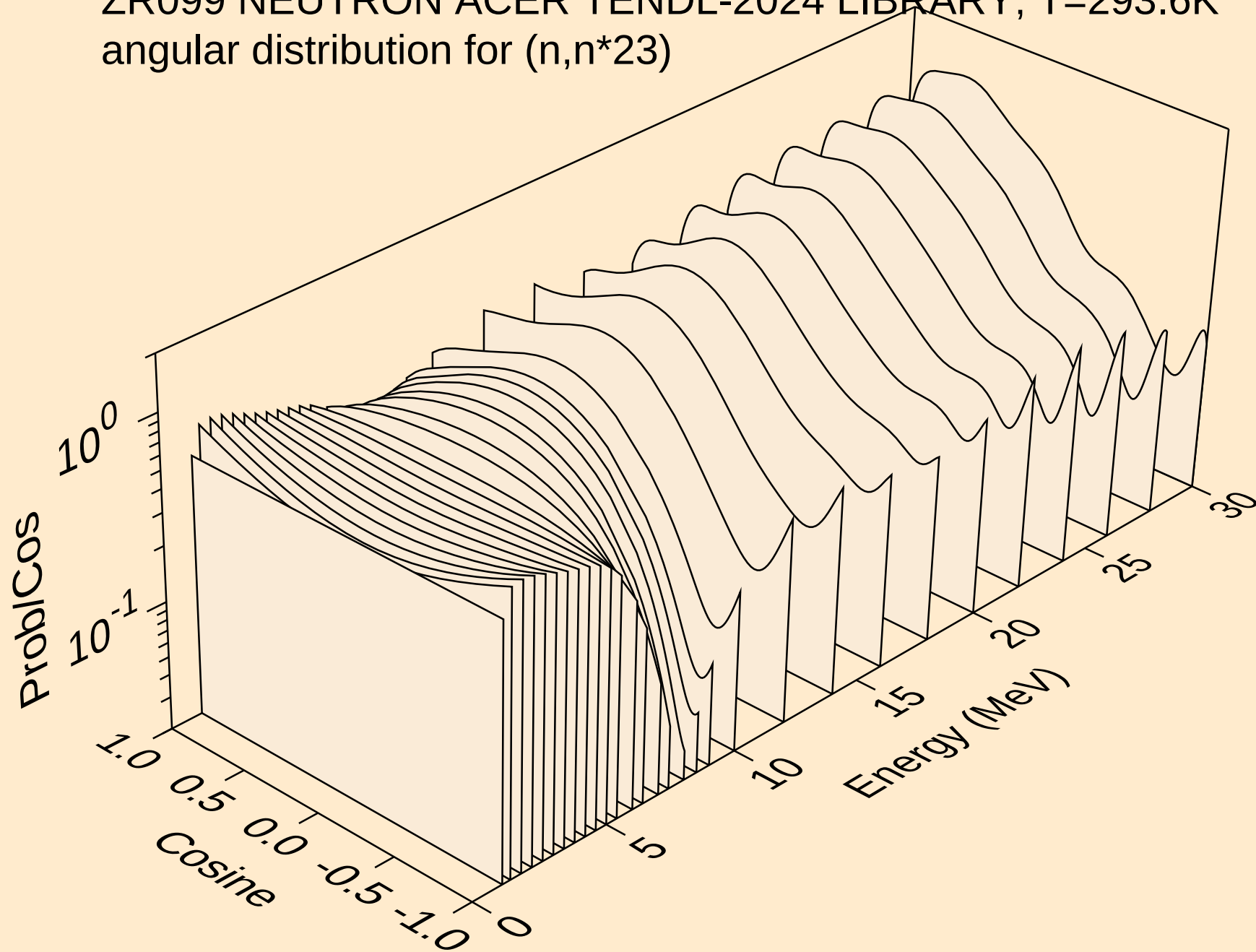
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angular distribution for (n,n\*21)



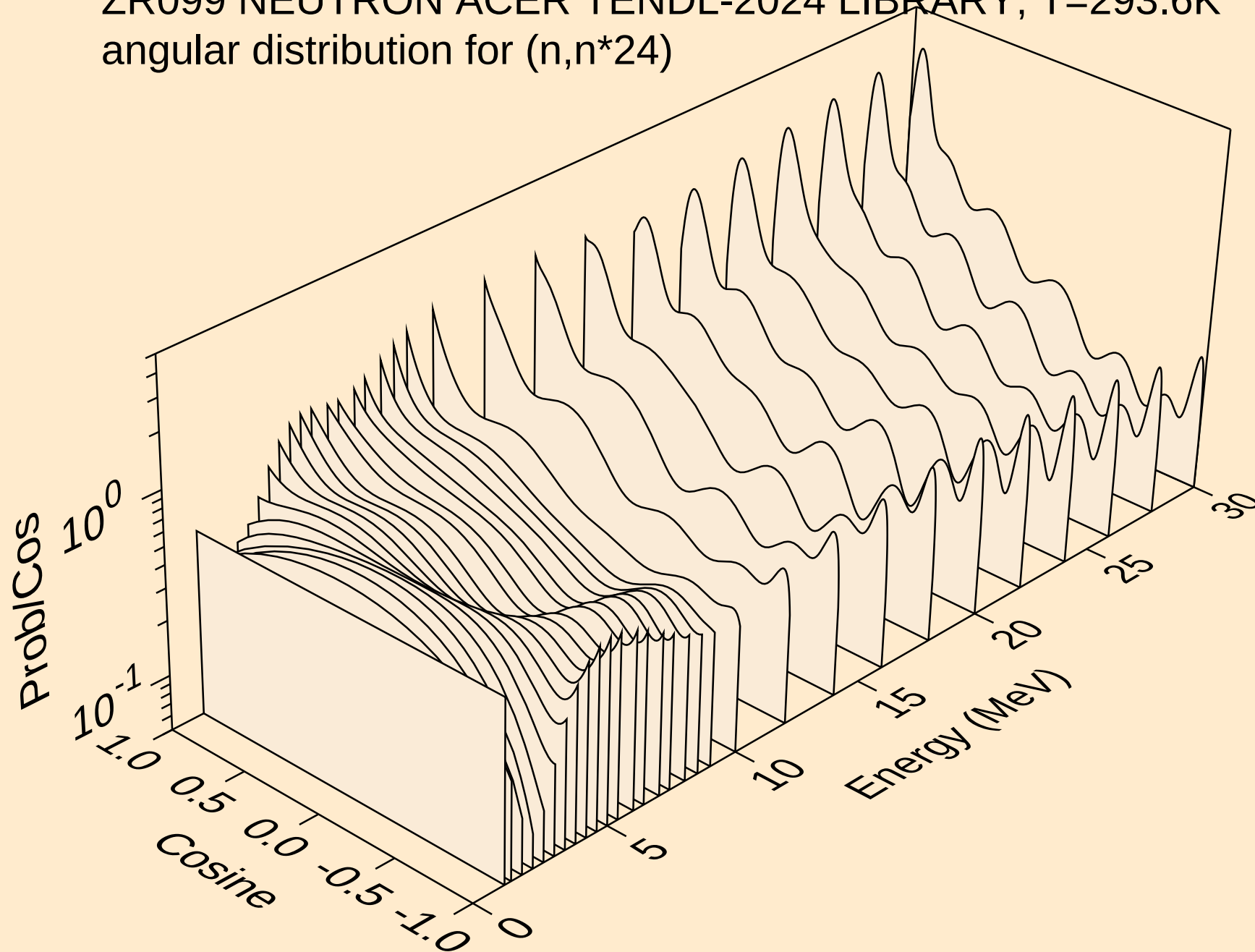
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



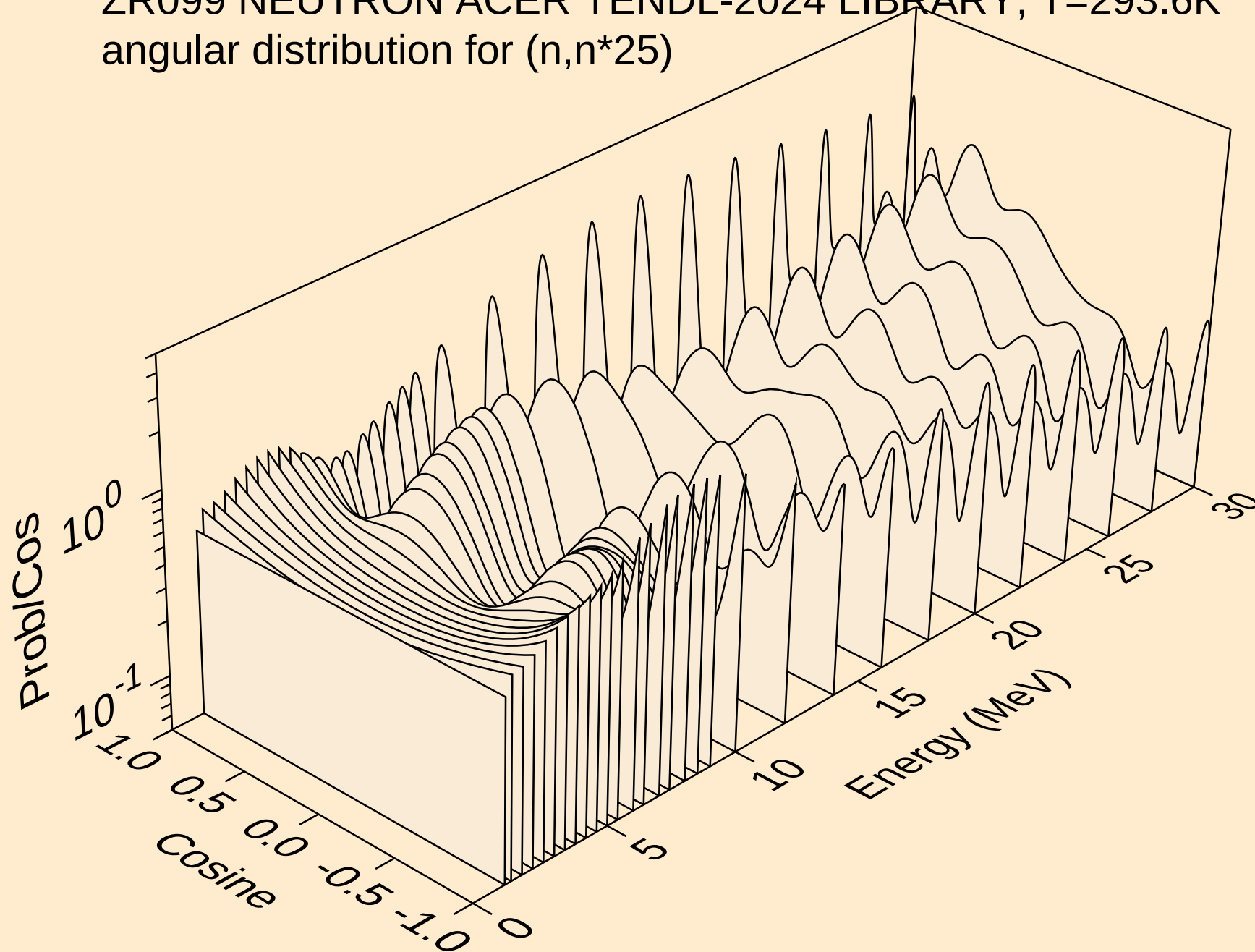
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



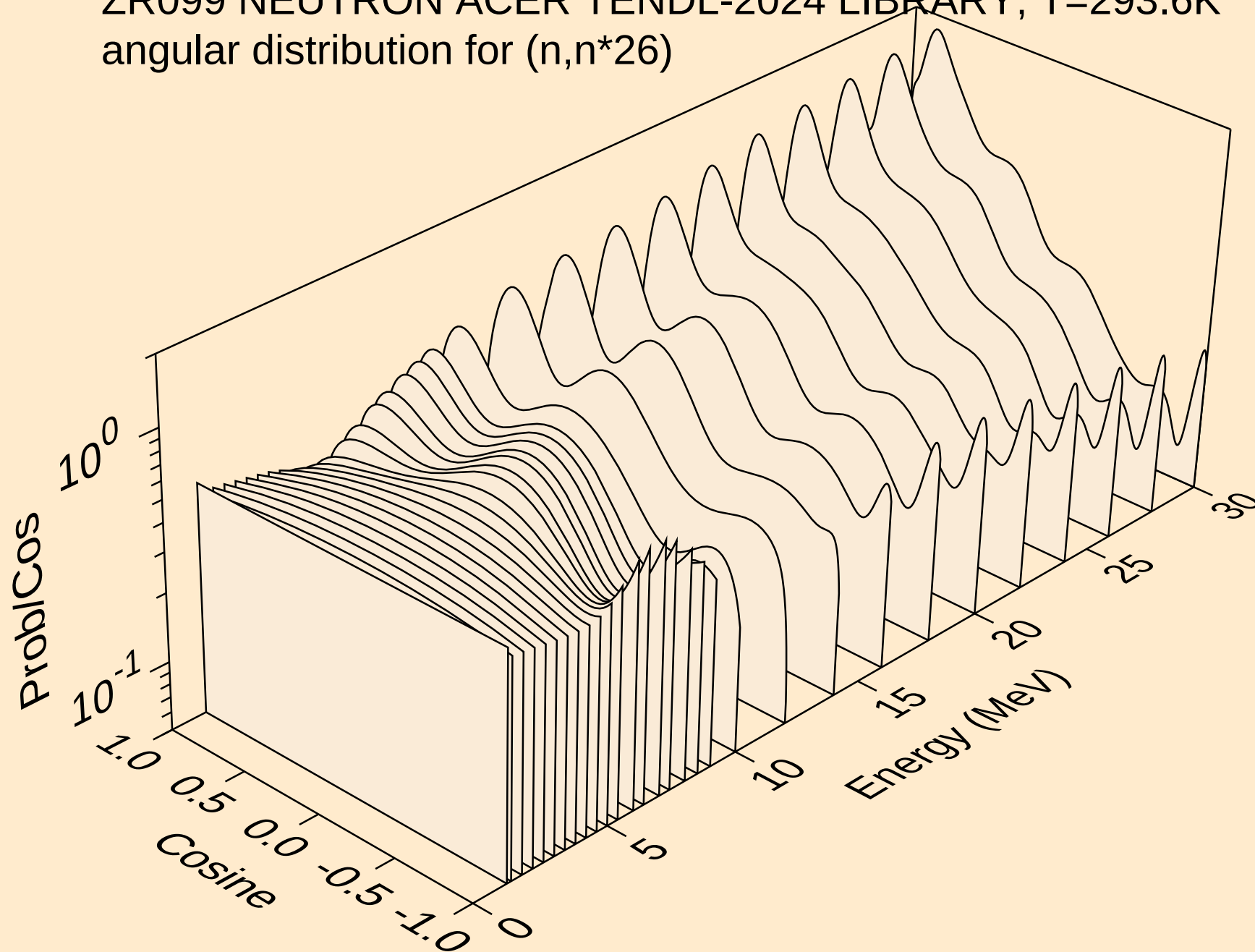
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

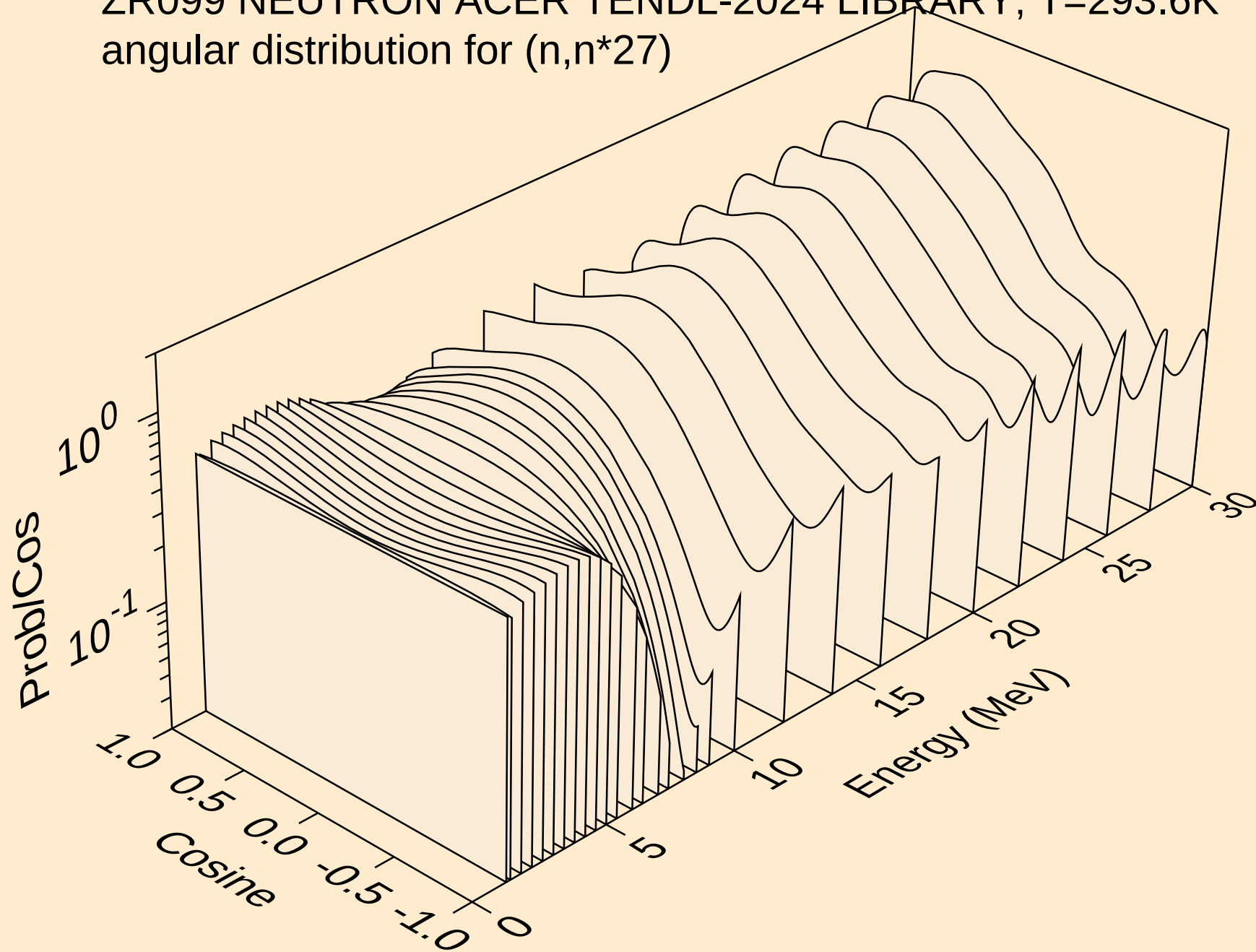


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)

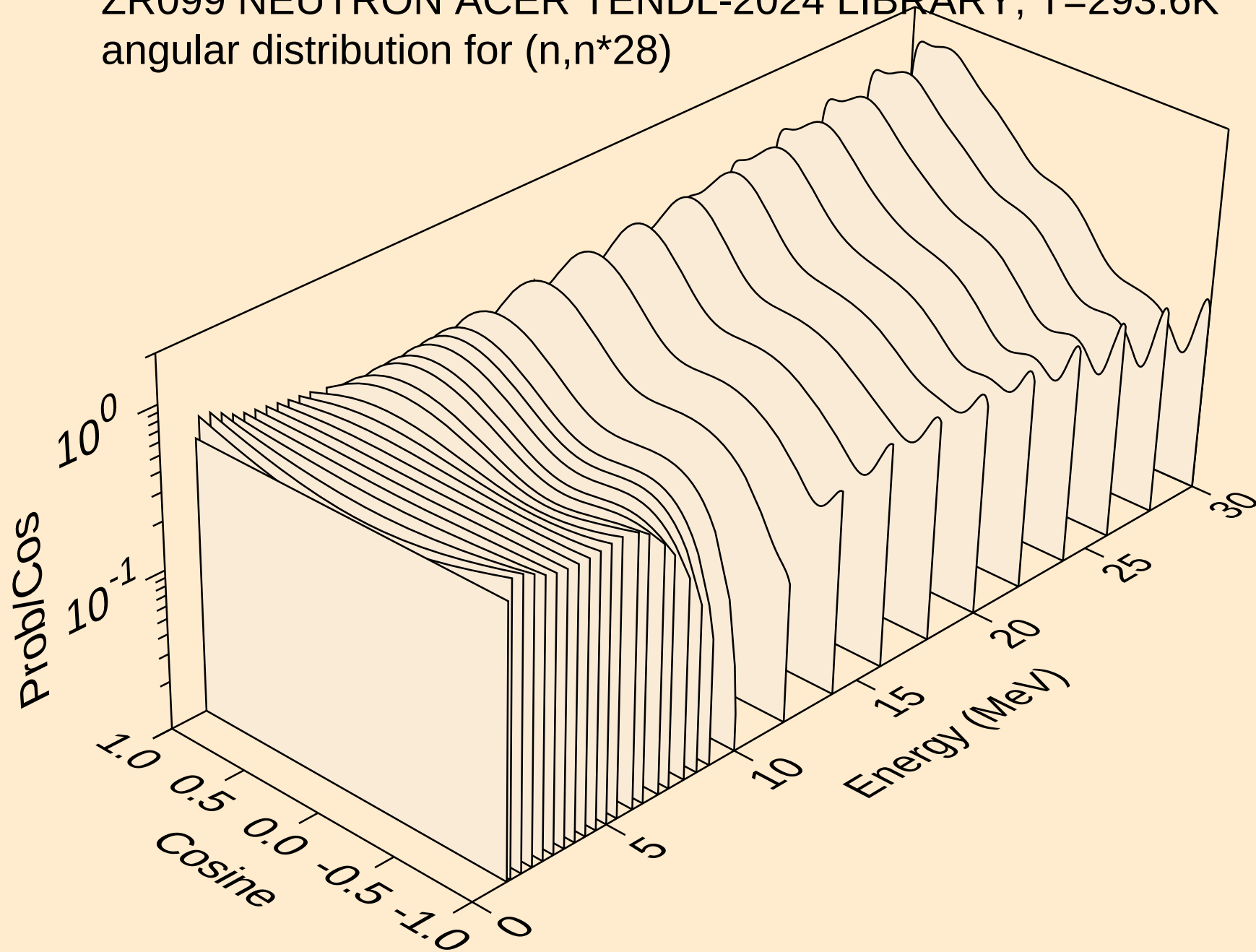




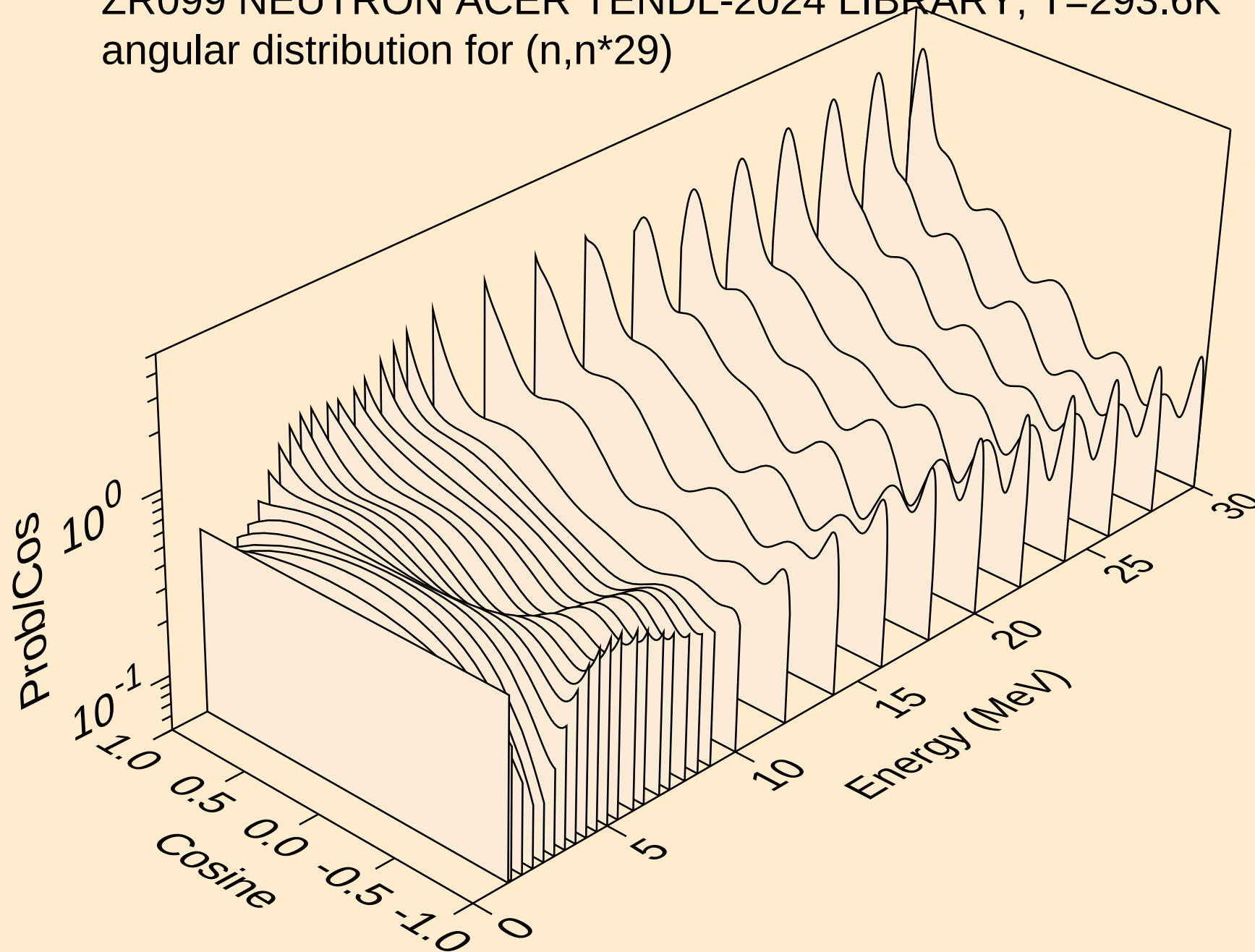
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



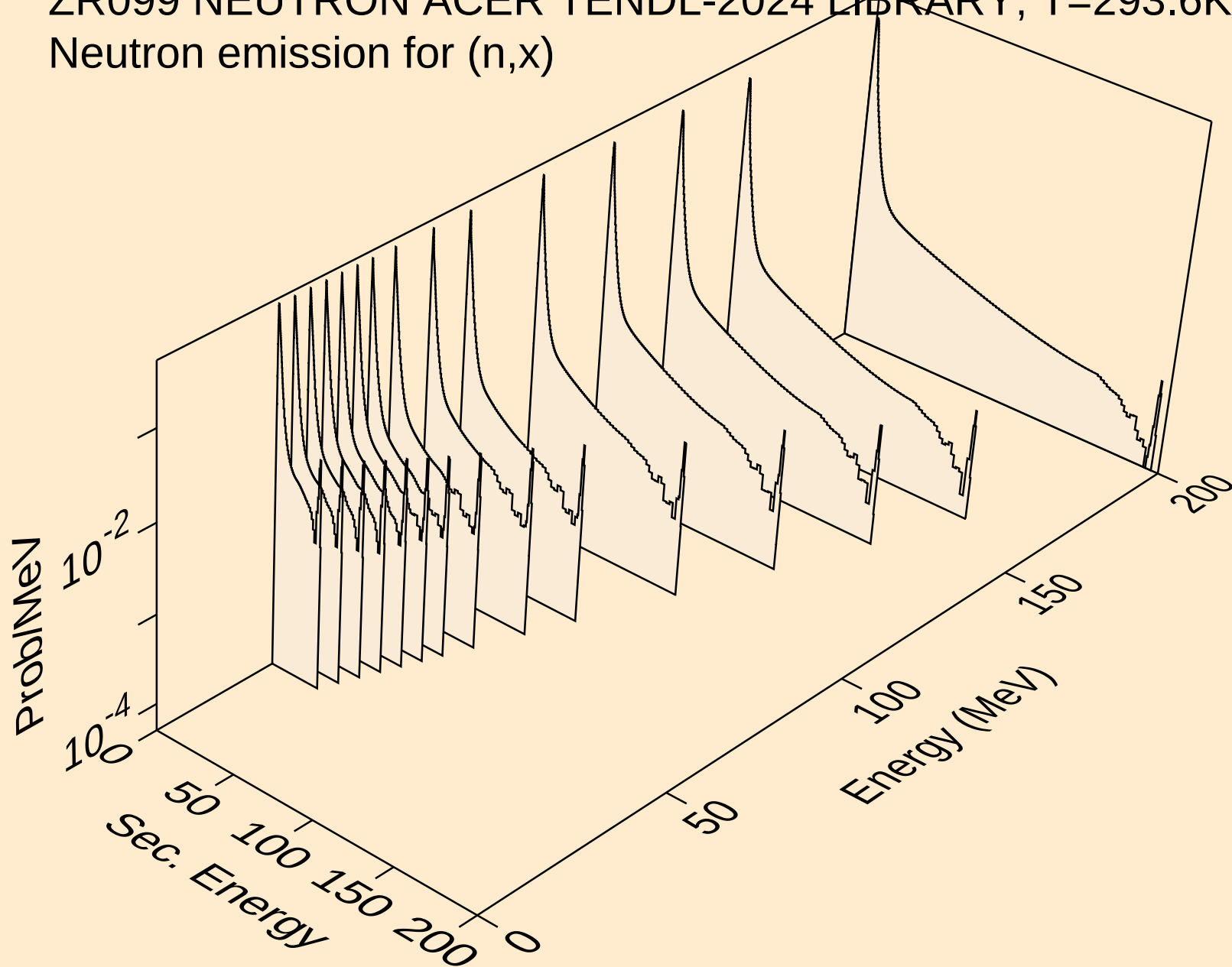
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*28)



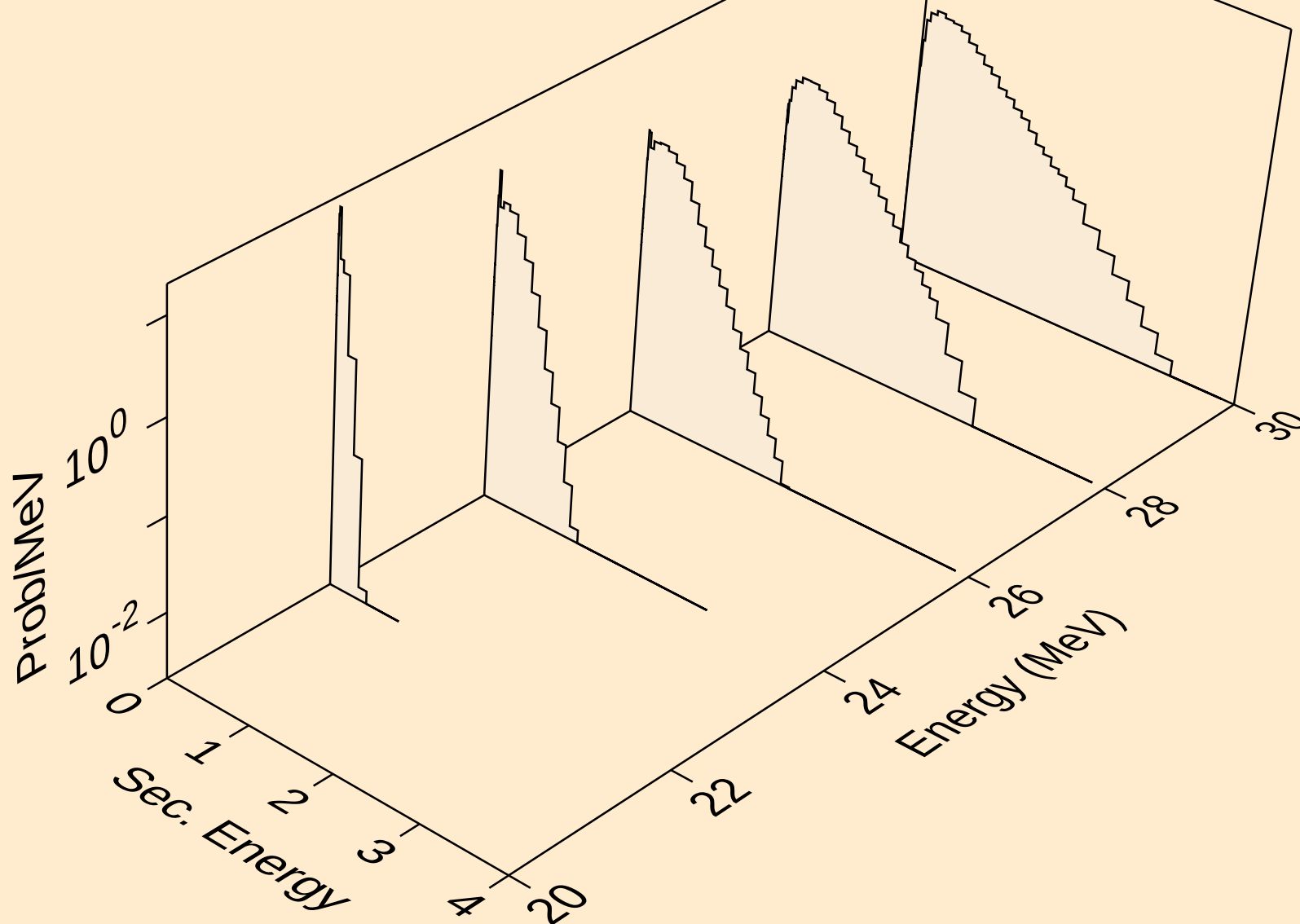
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



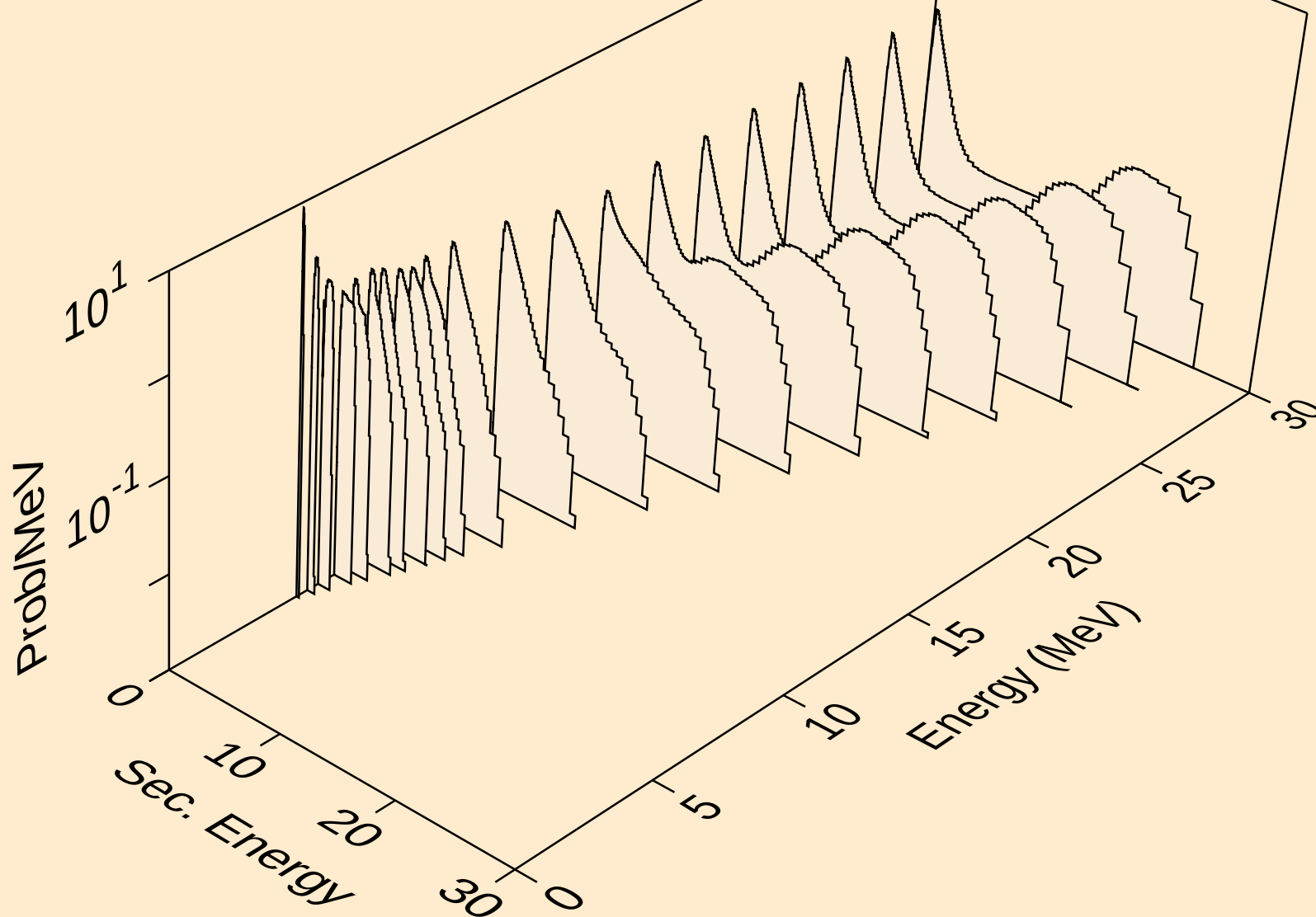
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,x)



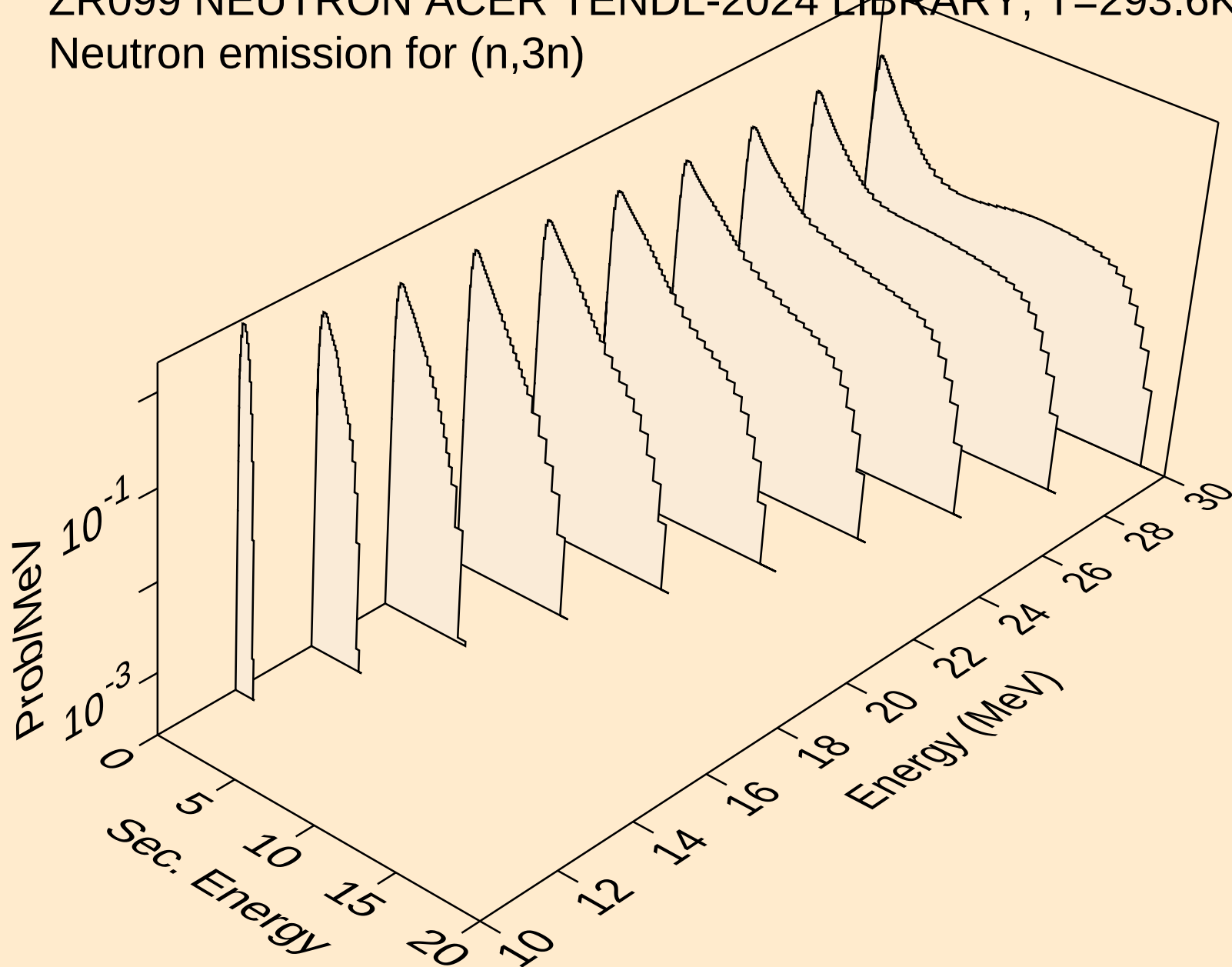
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

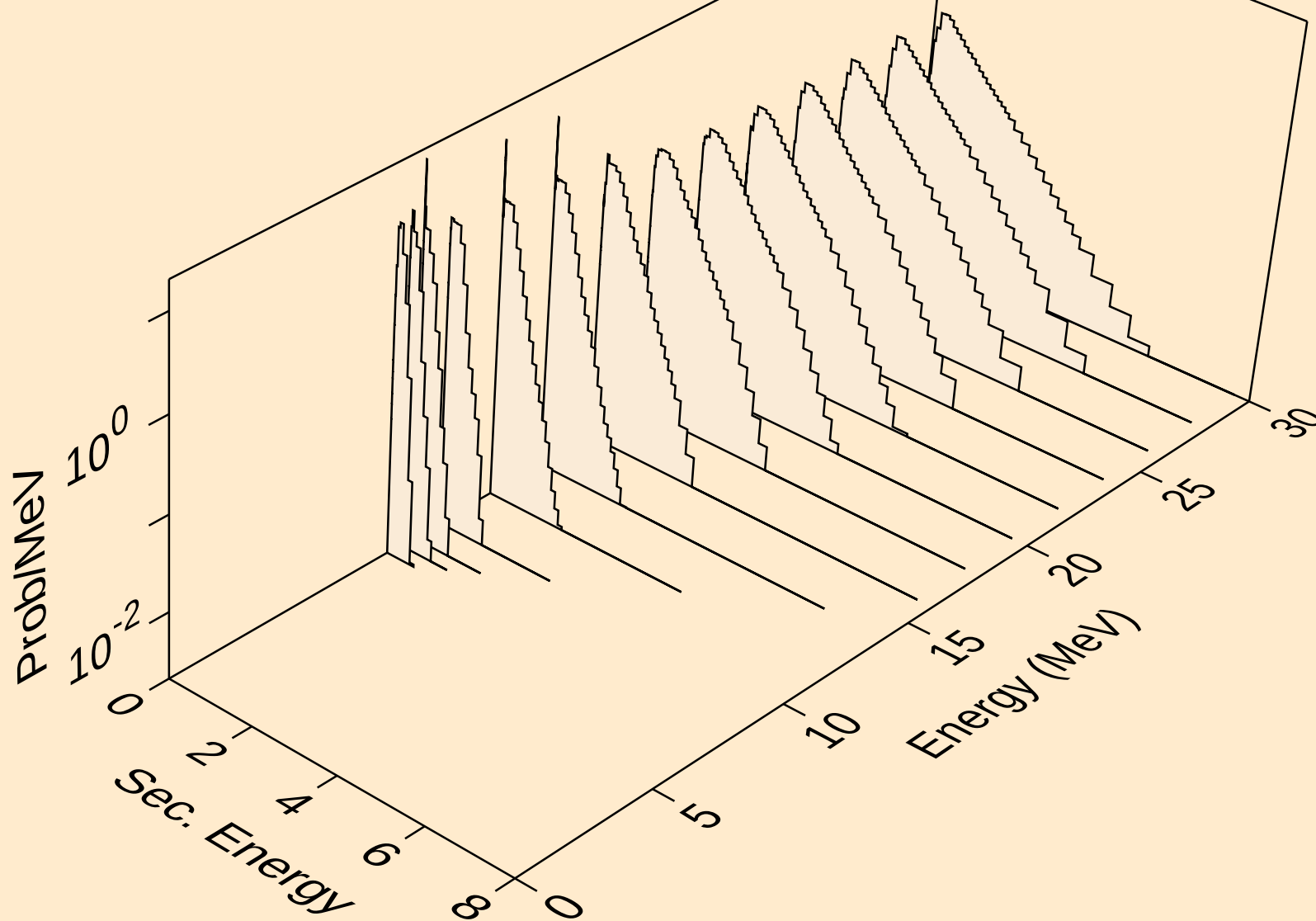


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



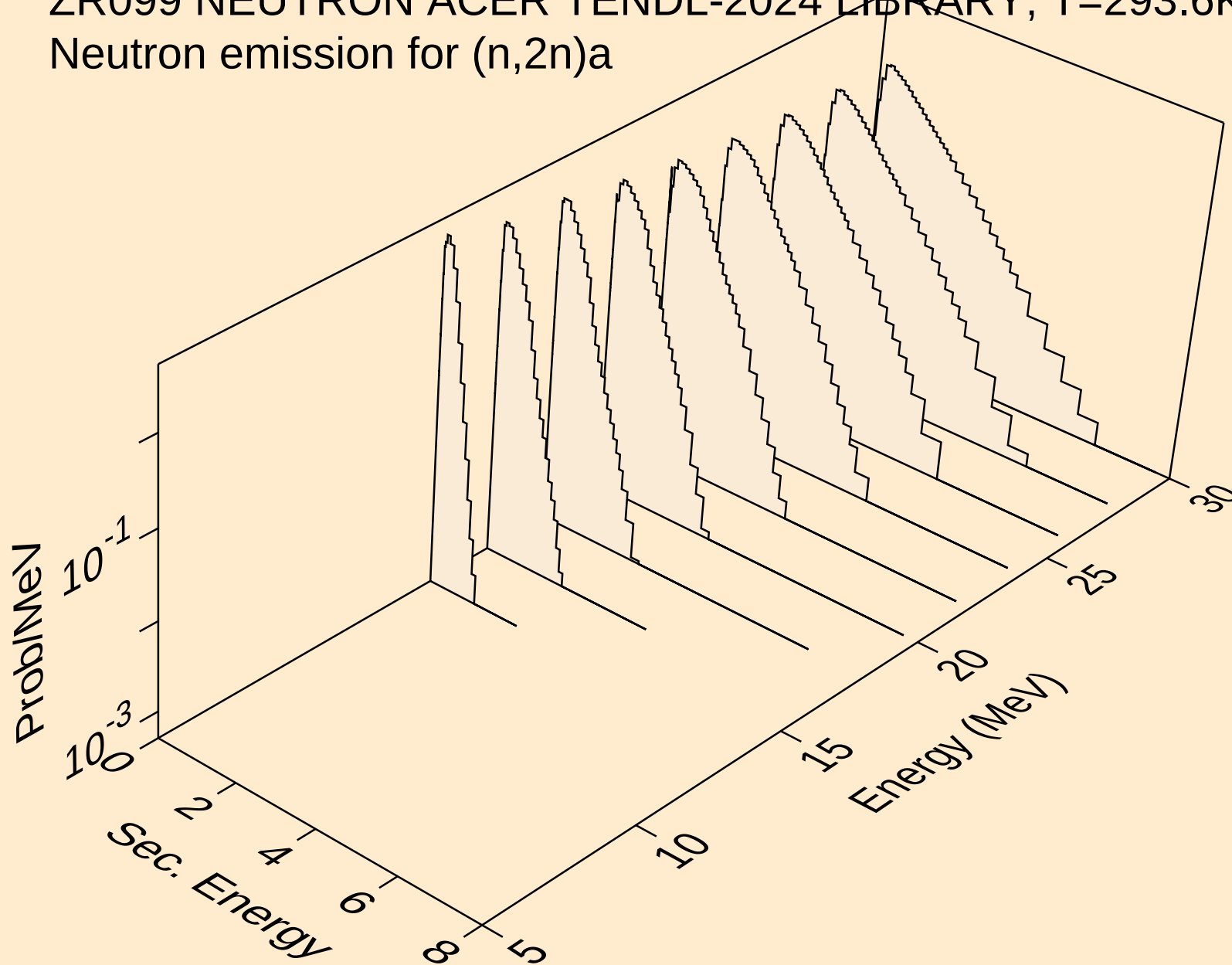
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Neutron emission for (n,n\*)a

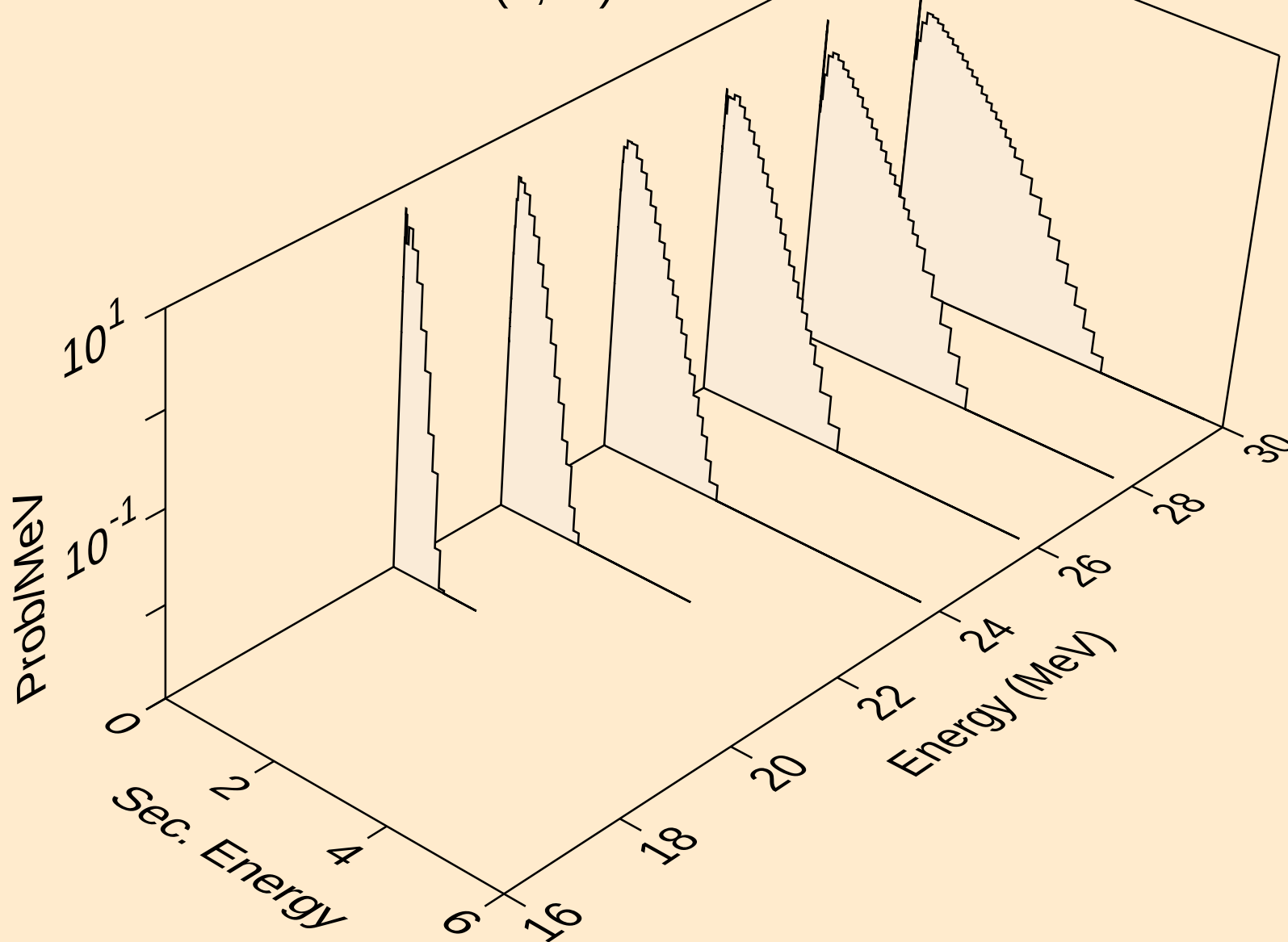




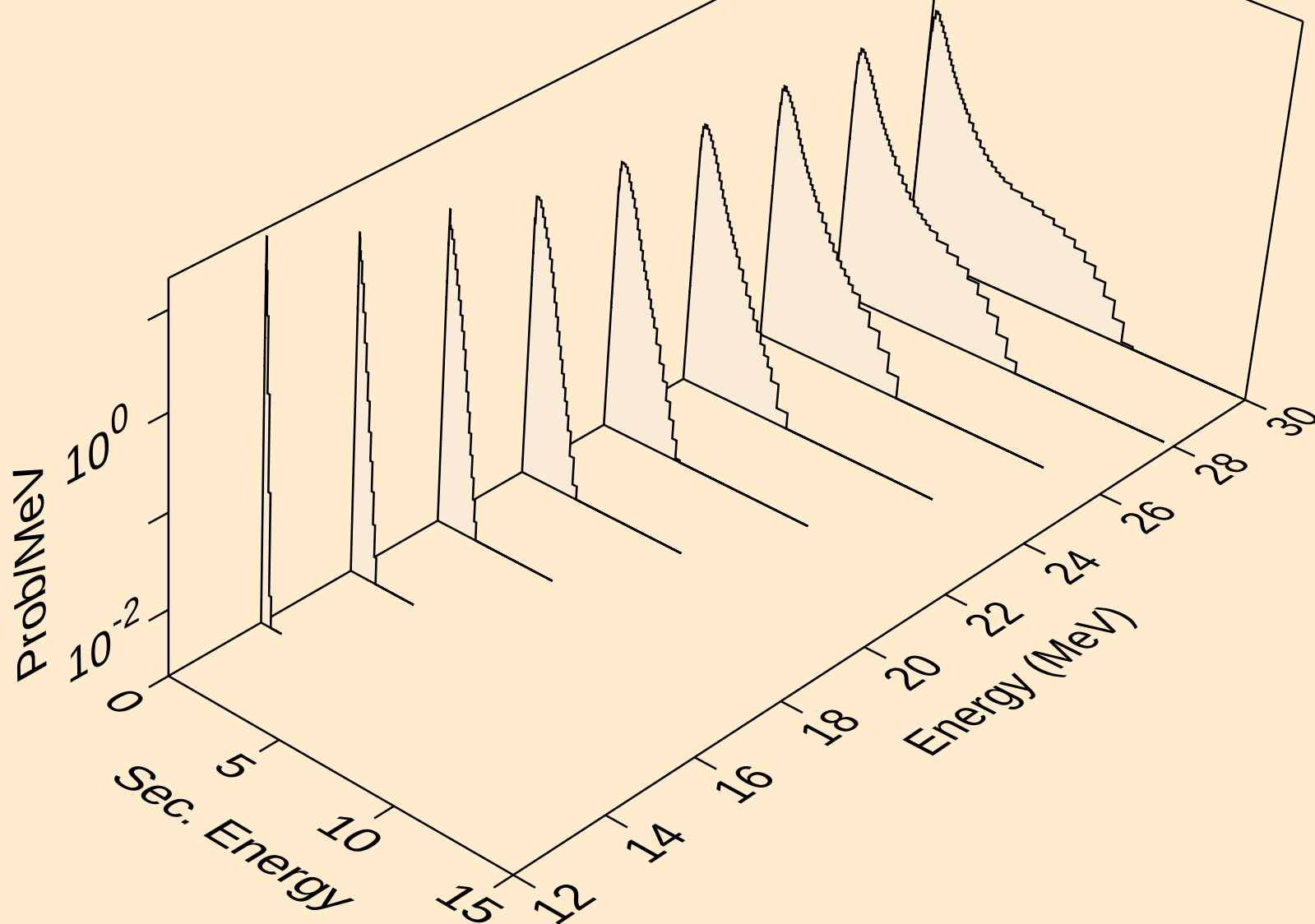
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



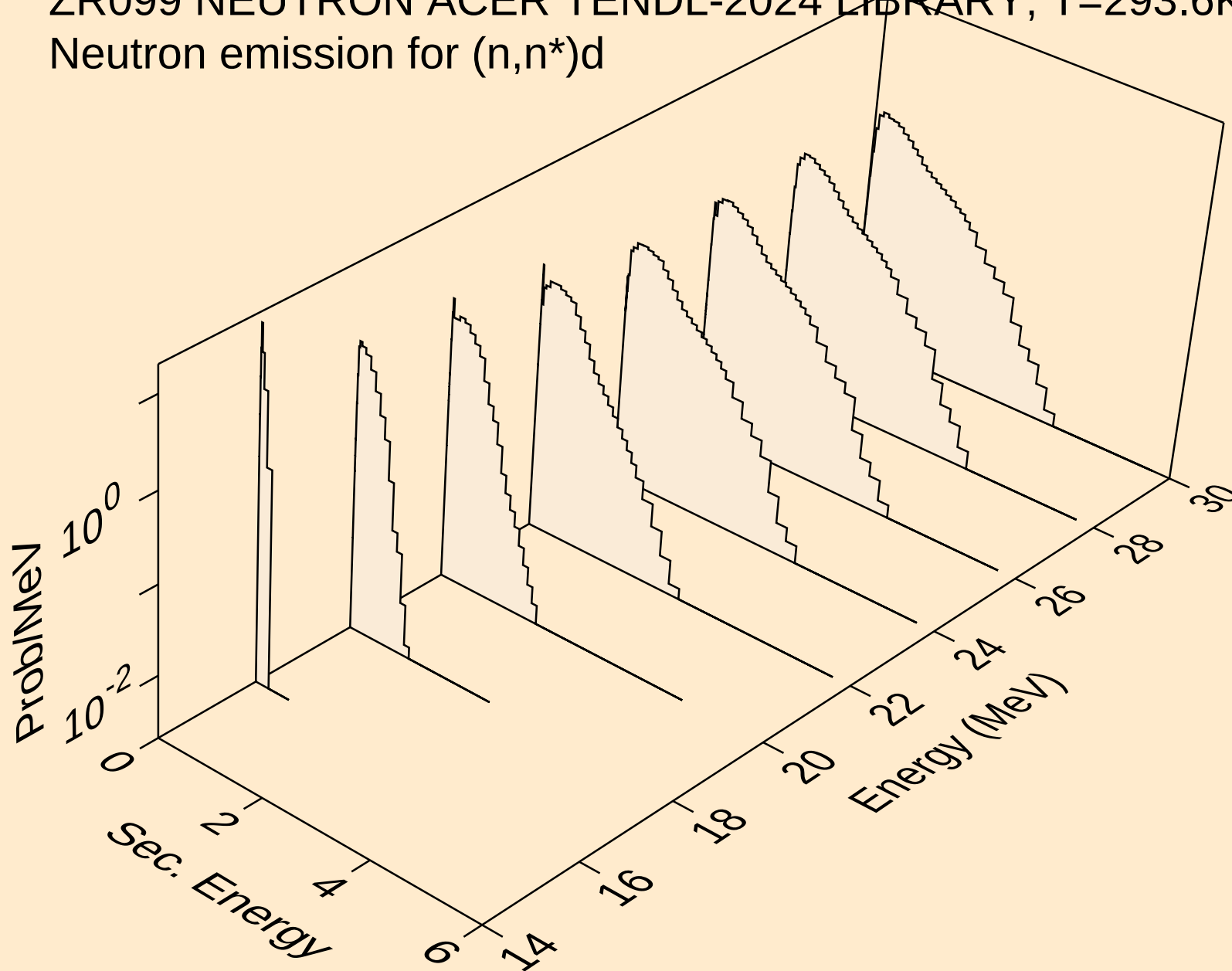
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



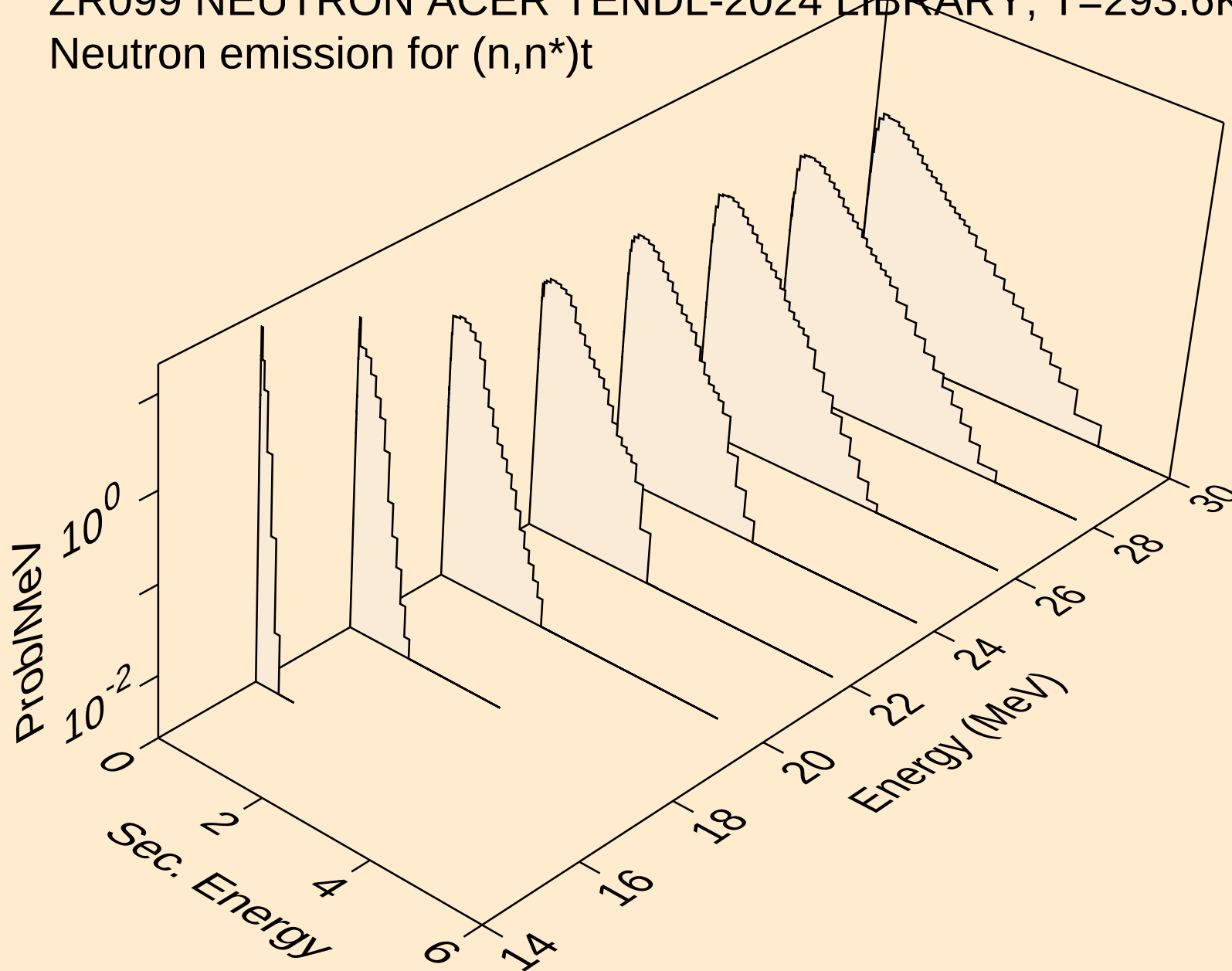
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



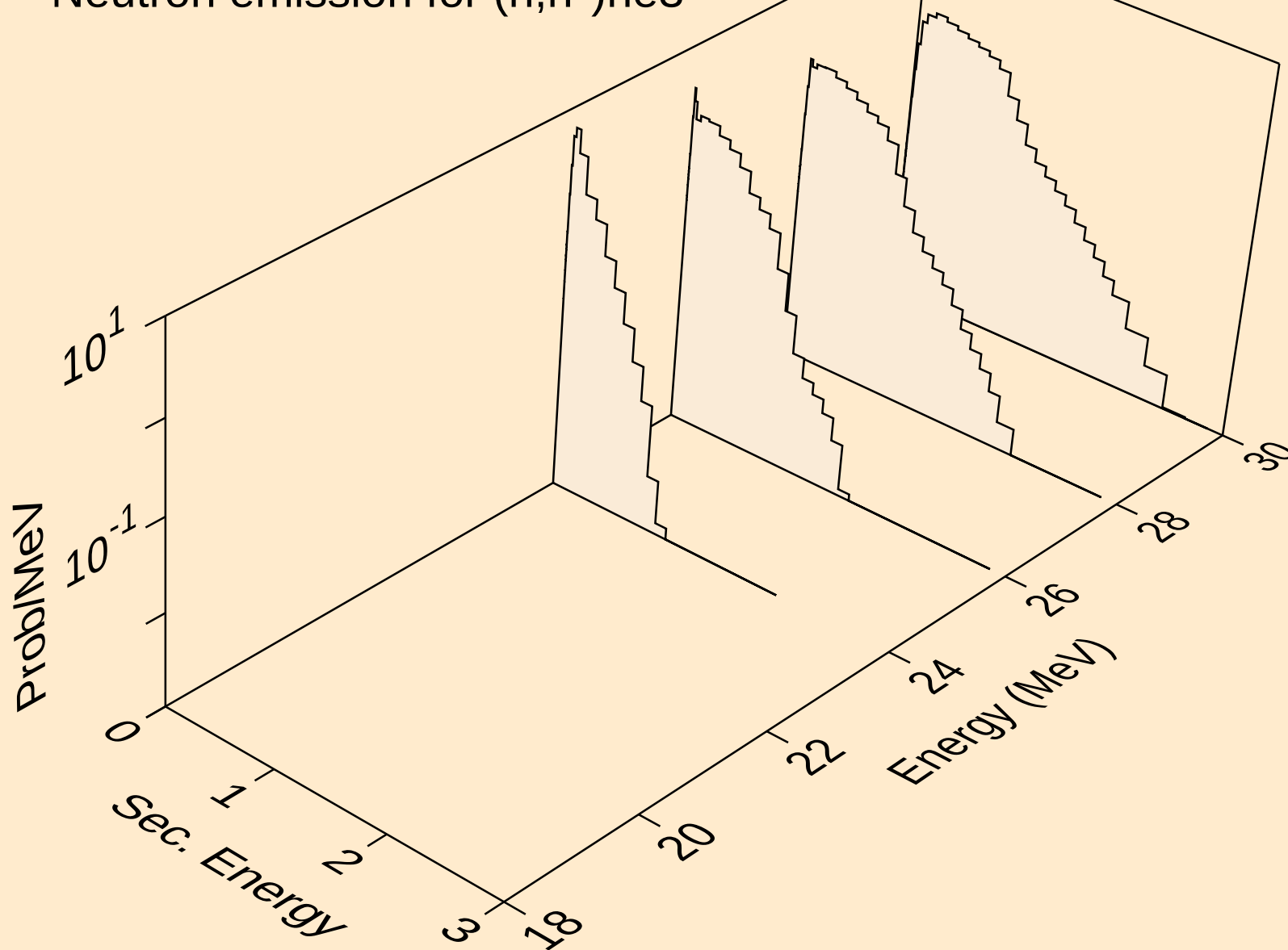
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d



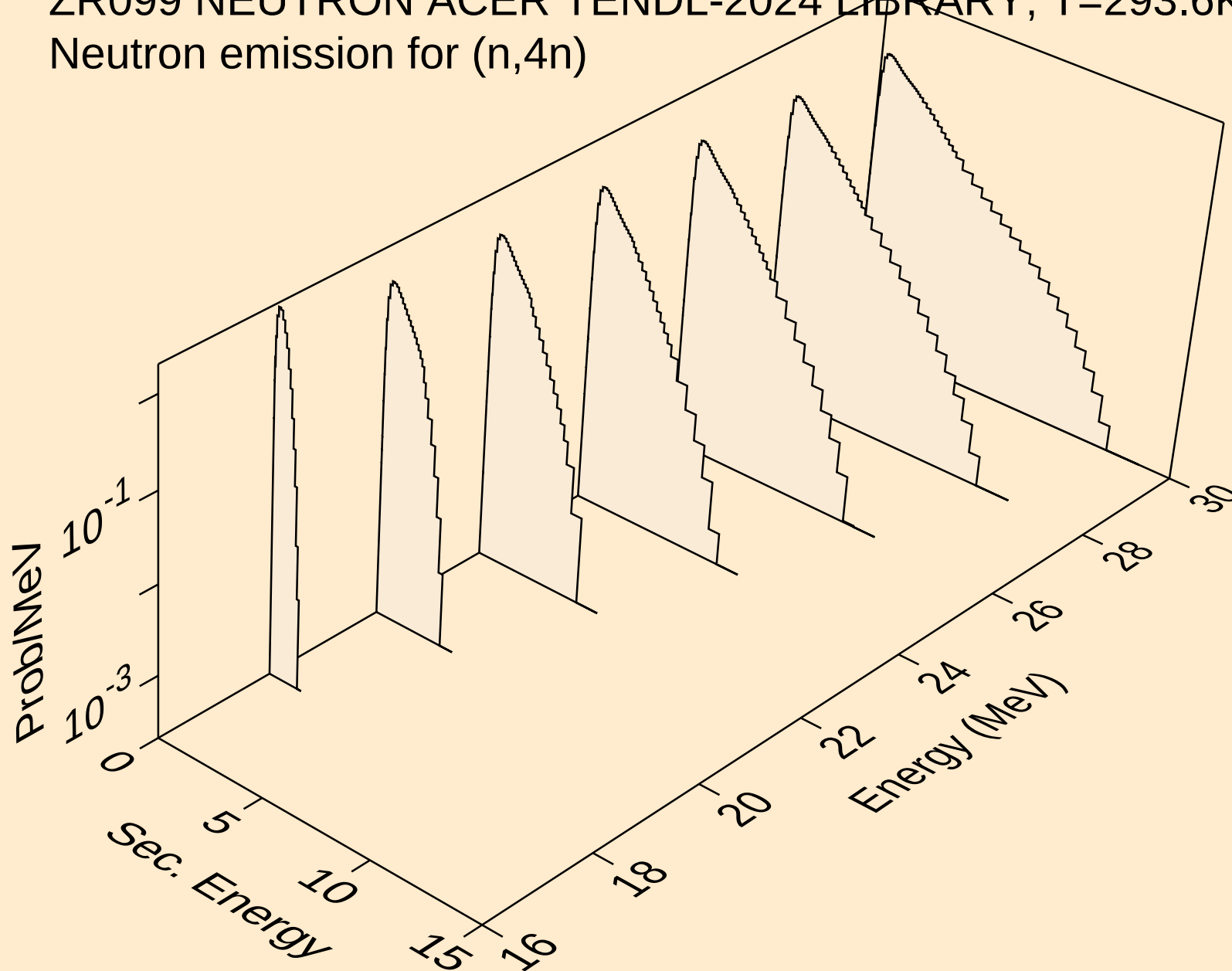
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t



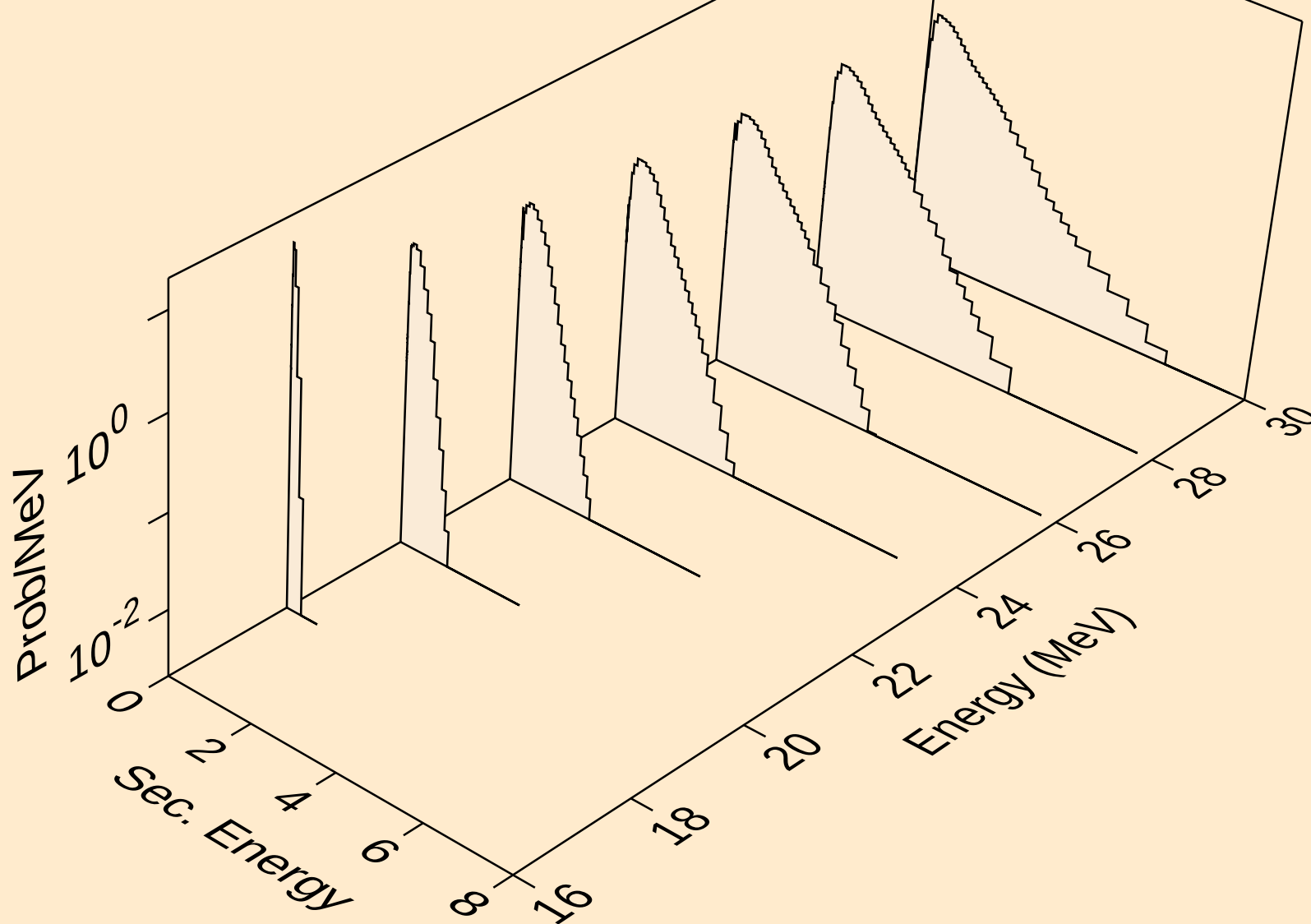
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)

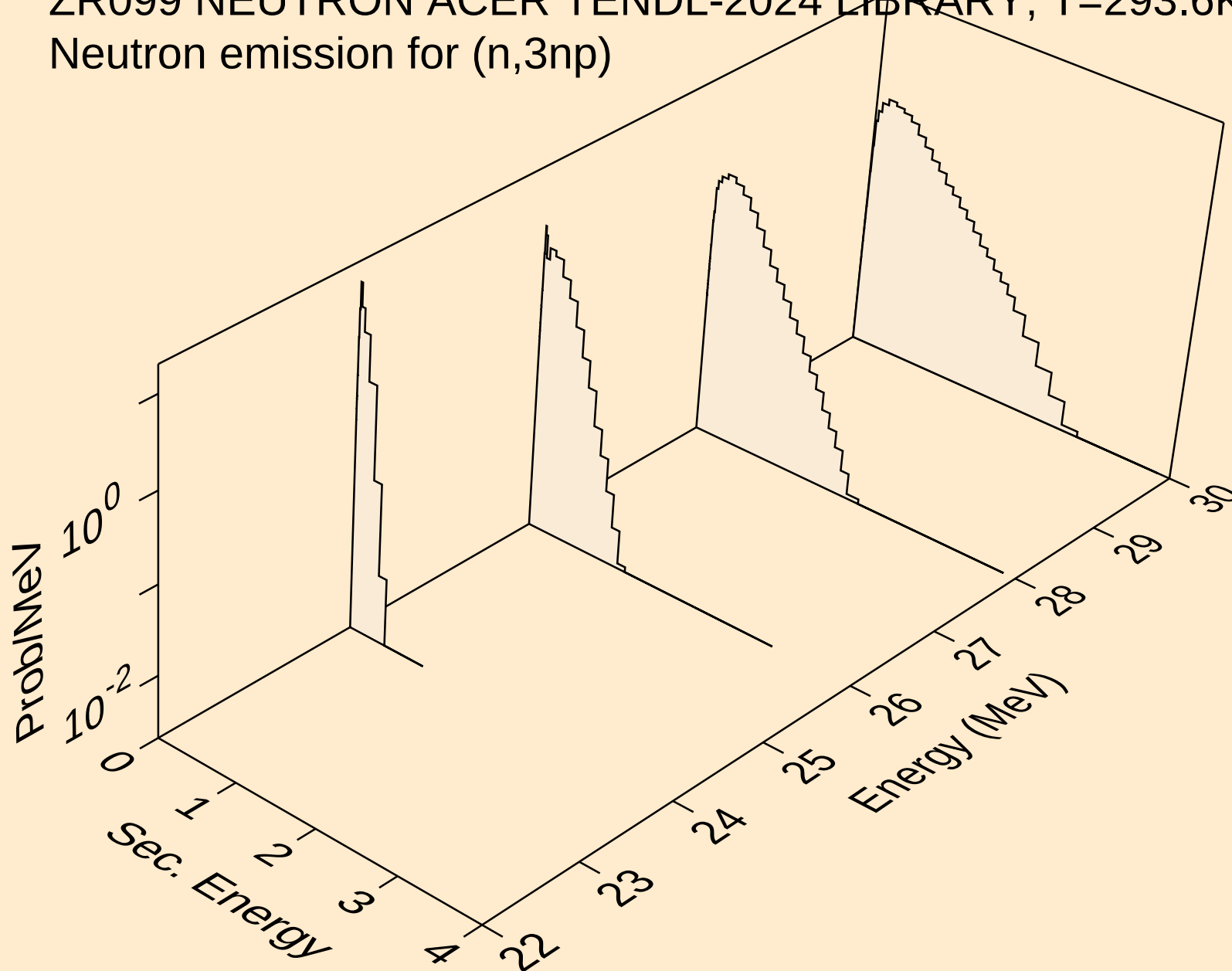


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2np)

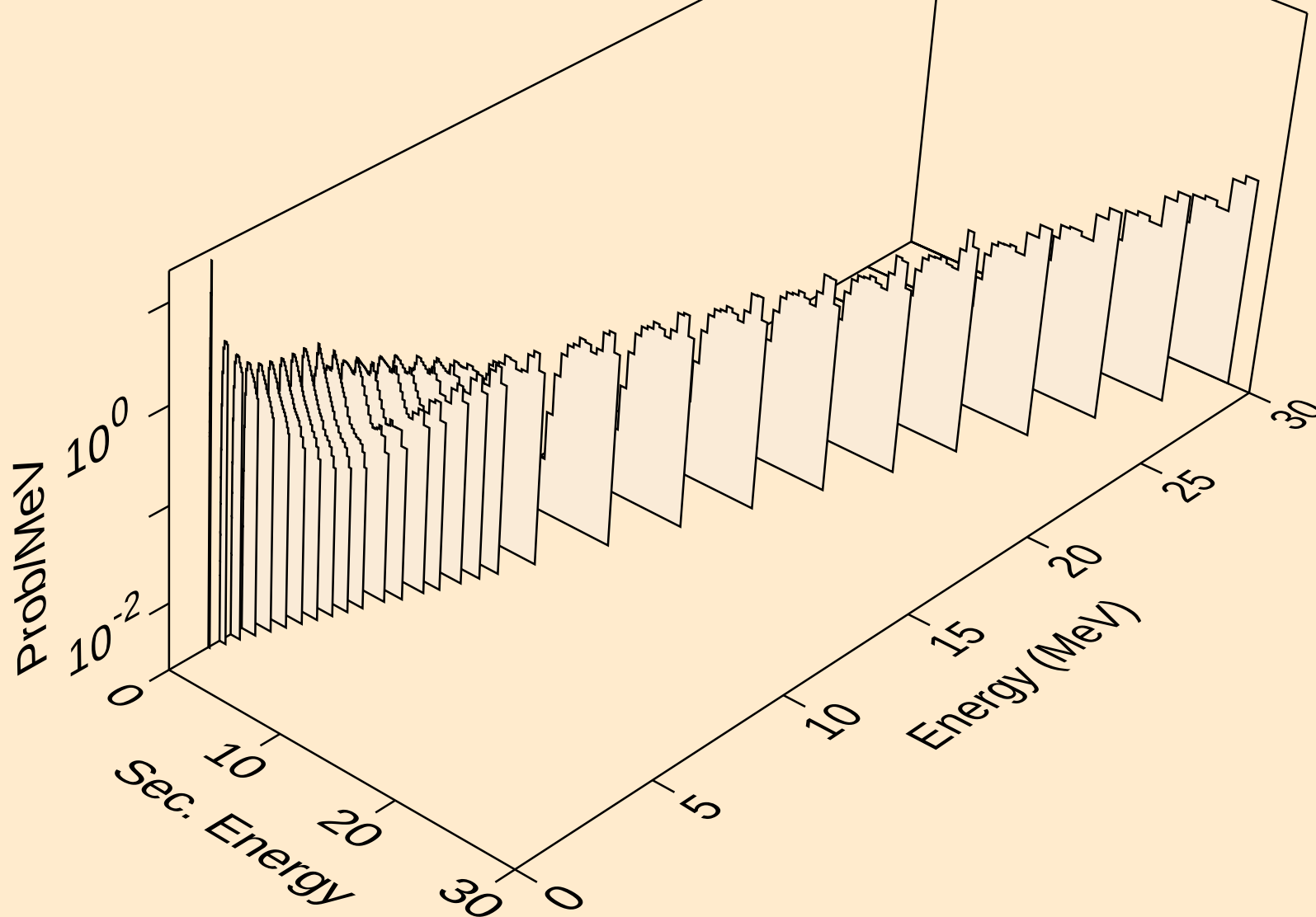




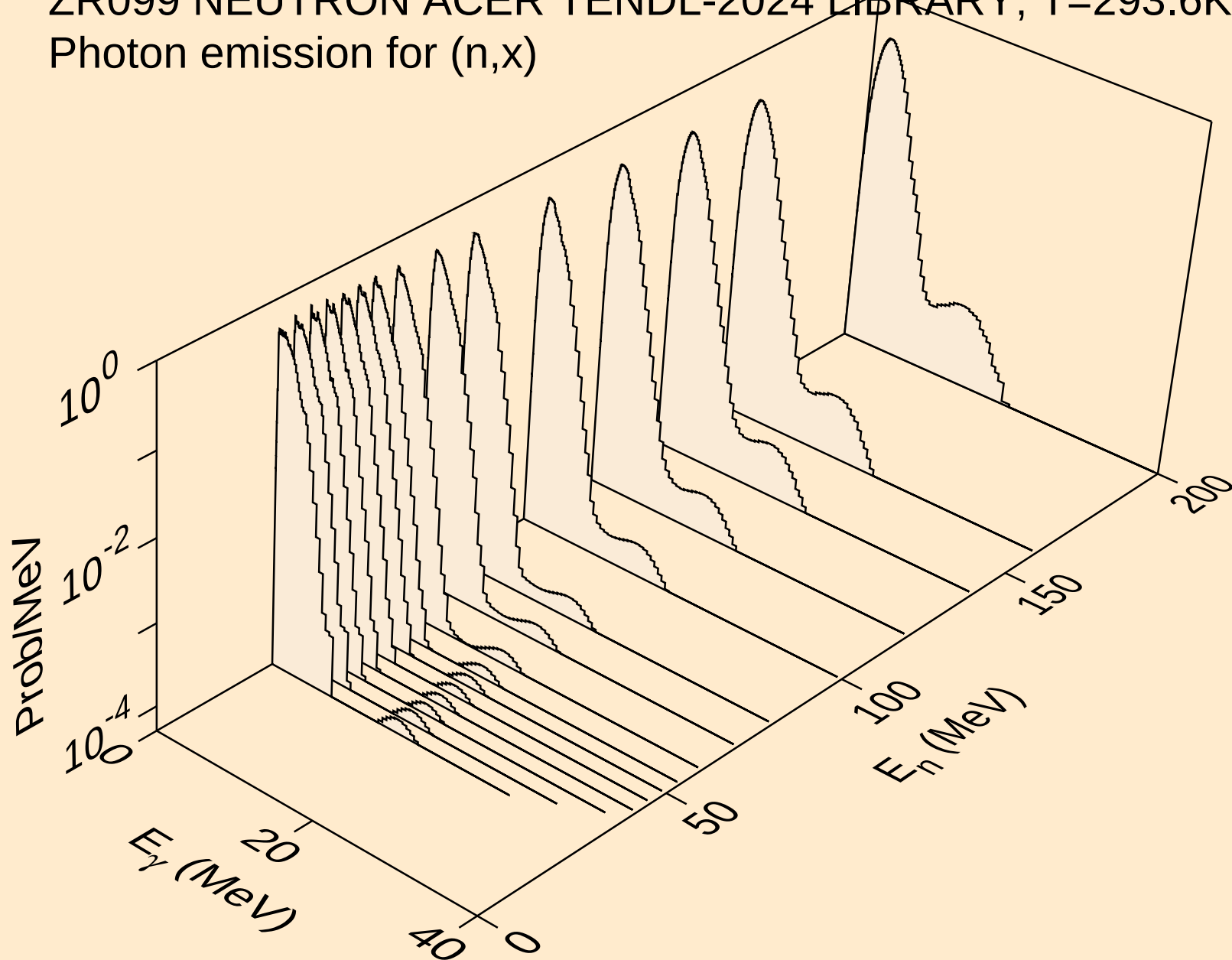
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



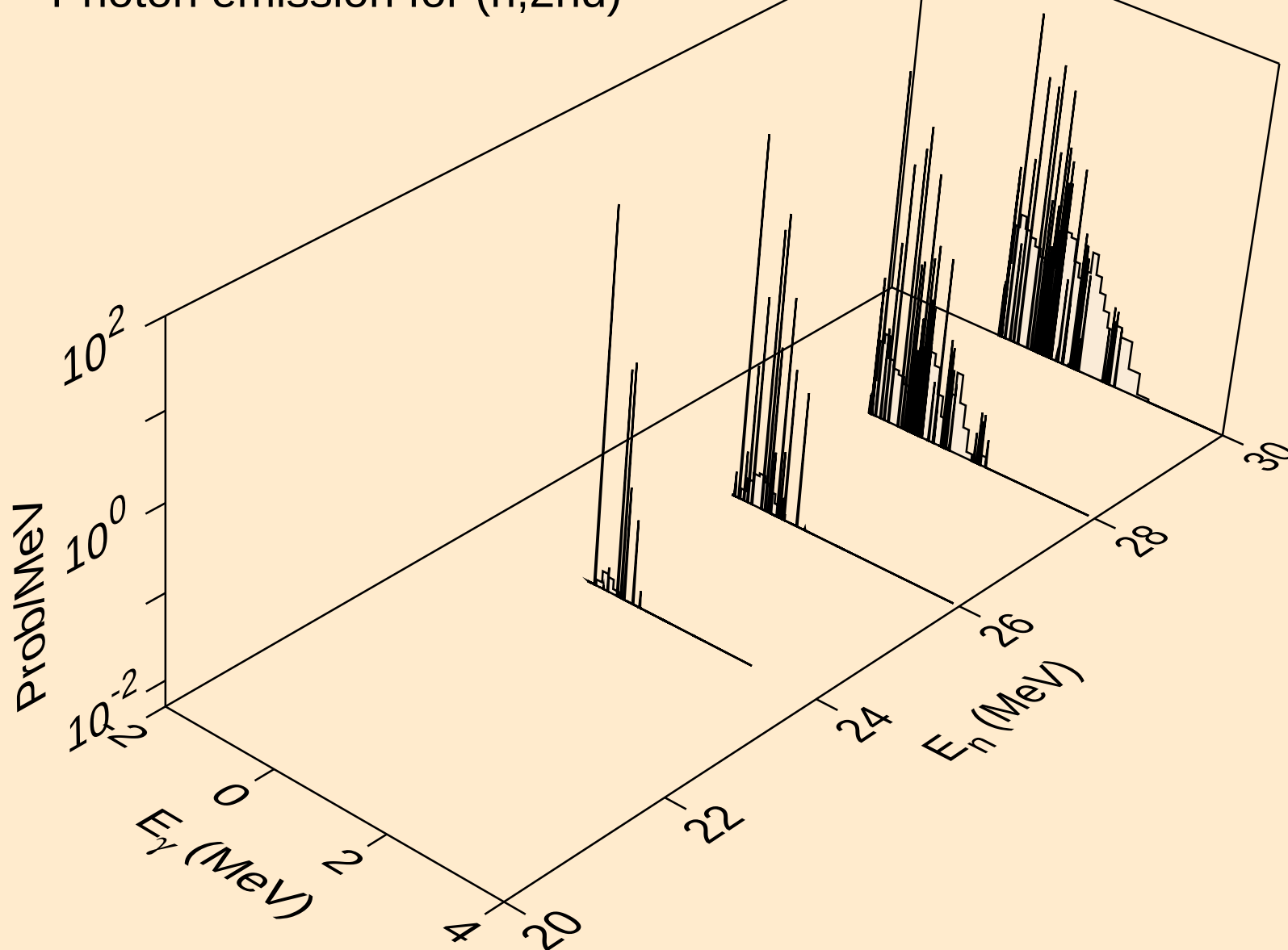
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



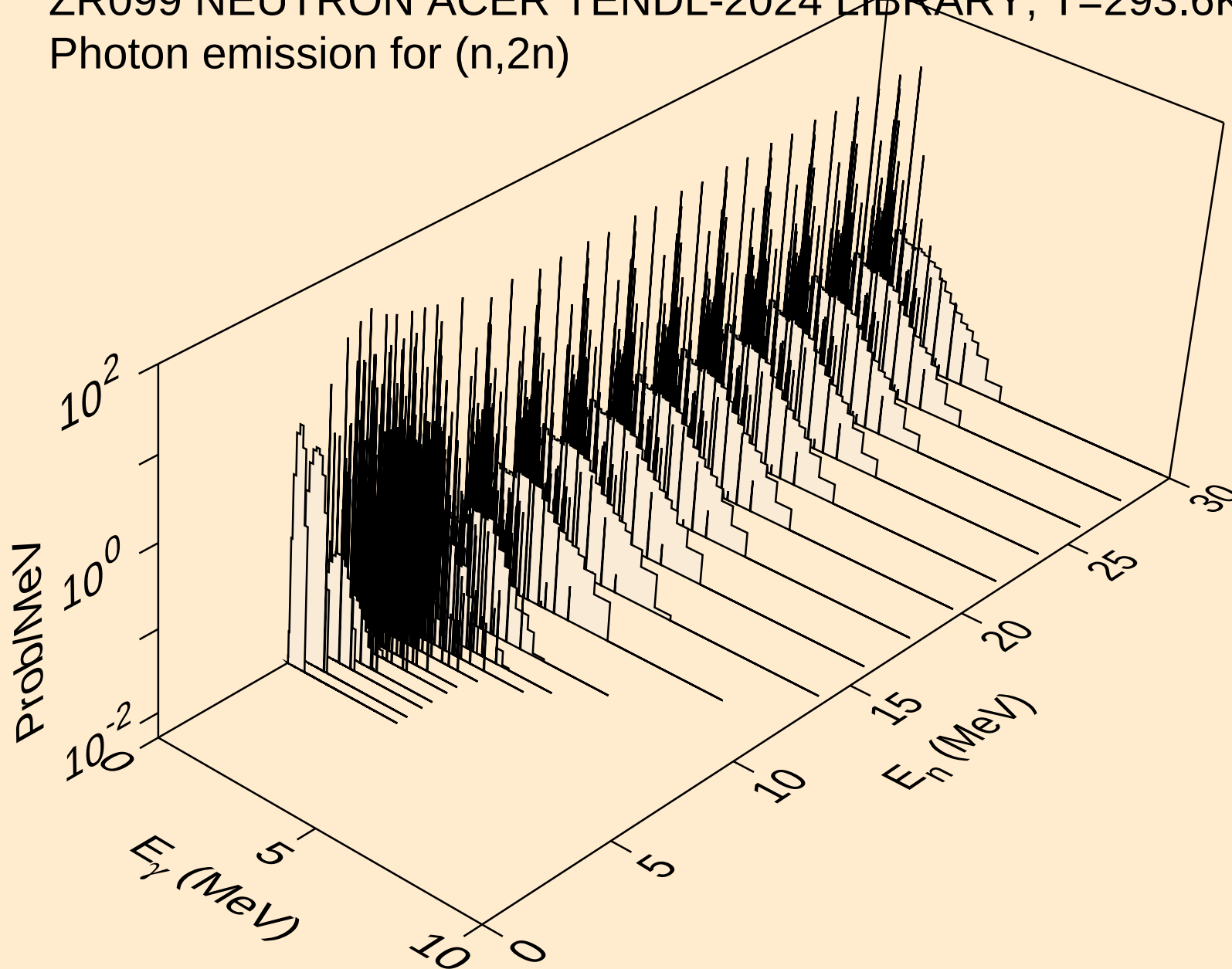
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



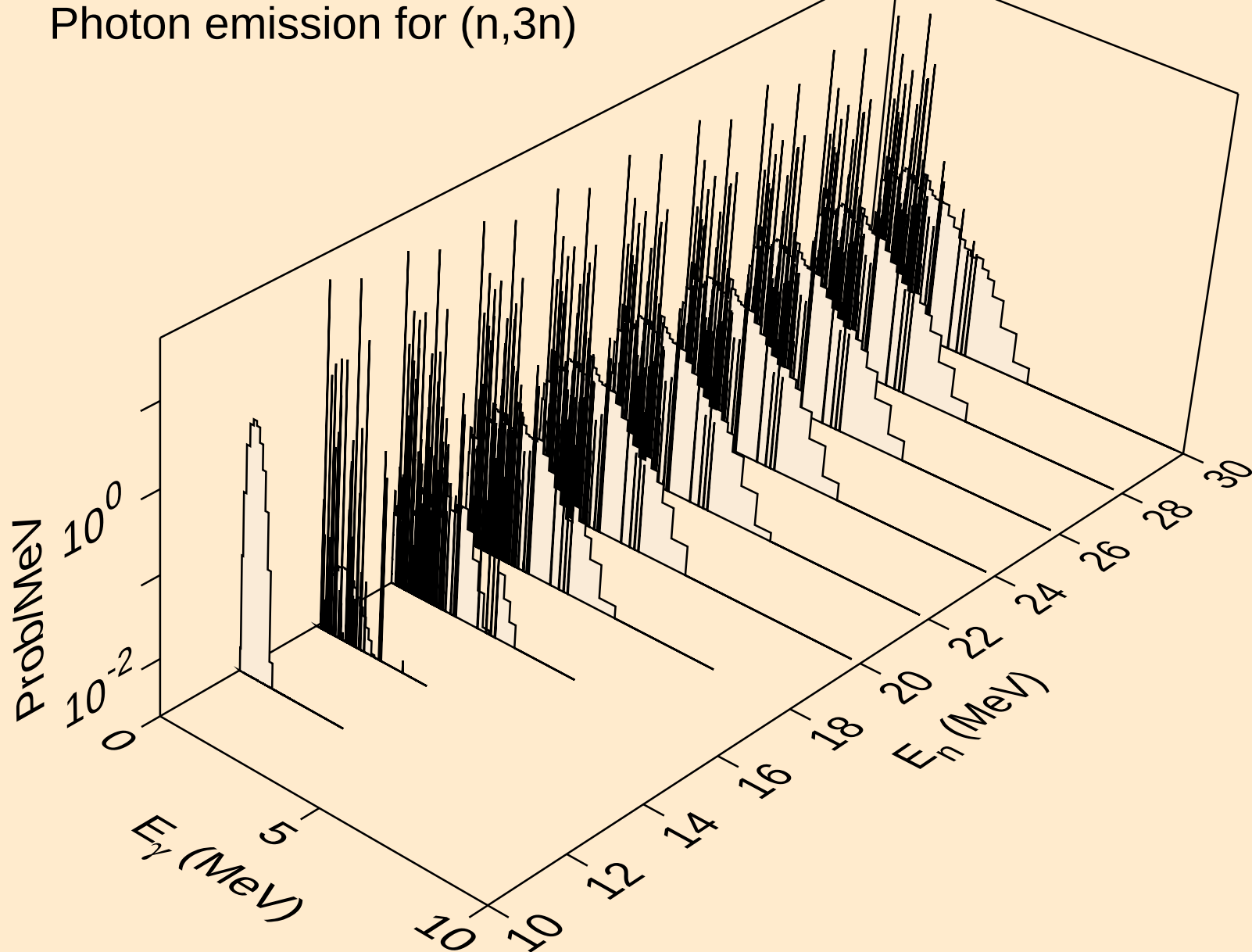
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n)

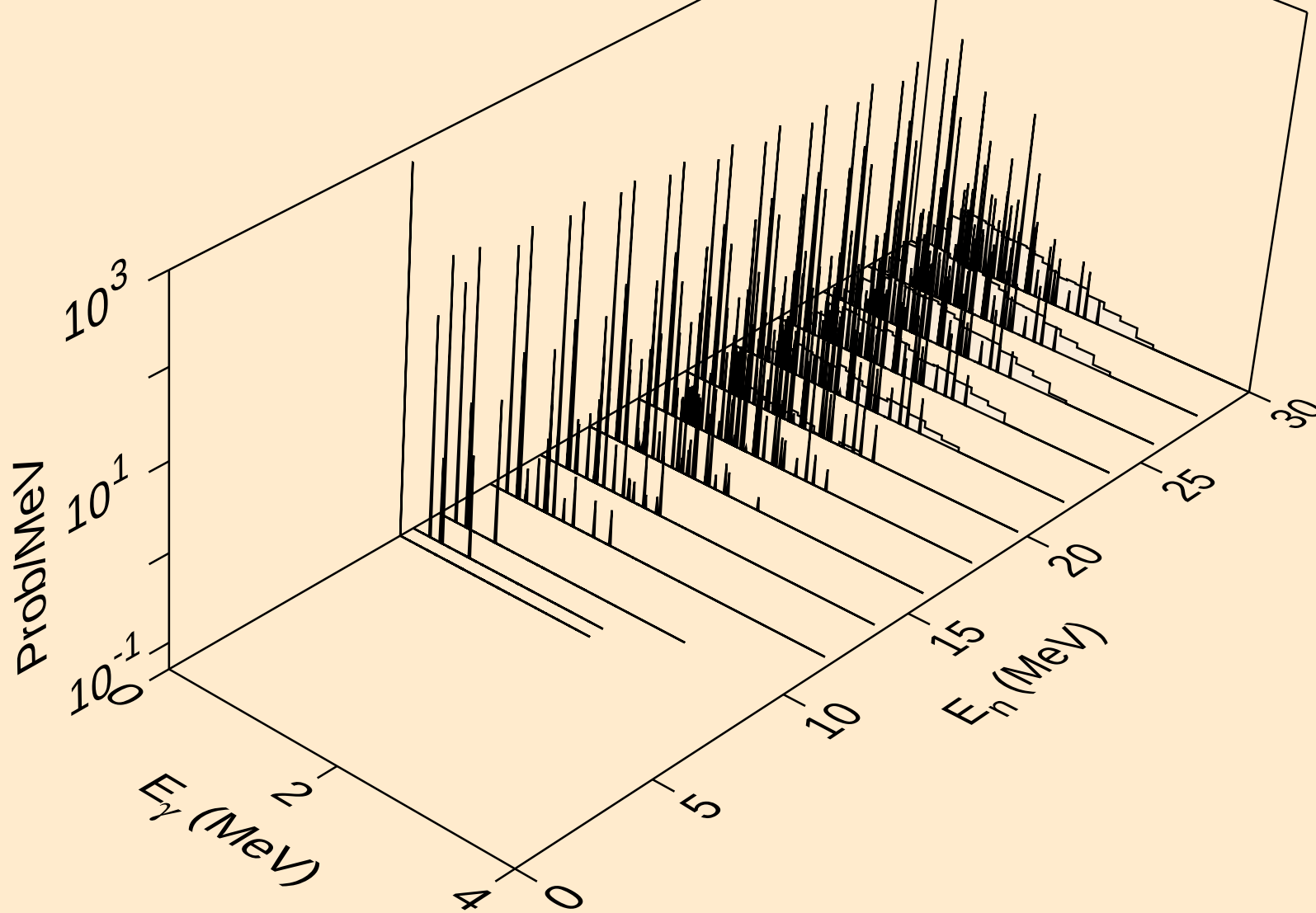


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3n)

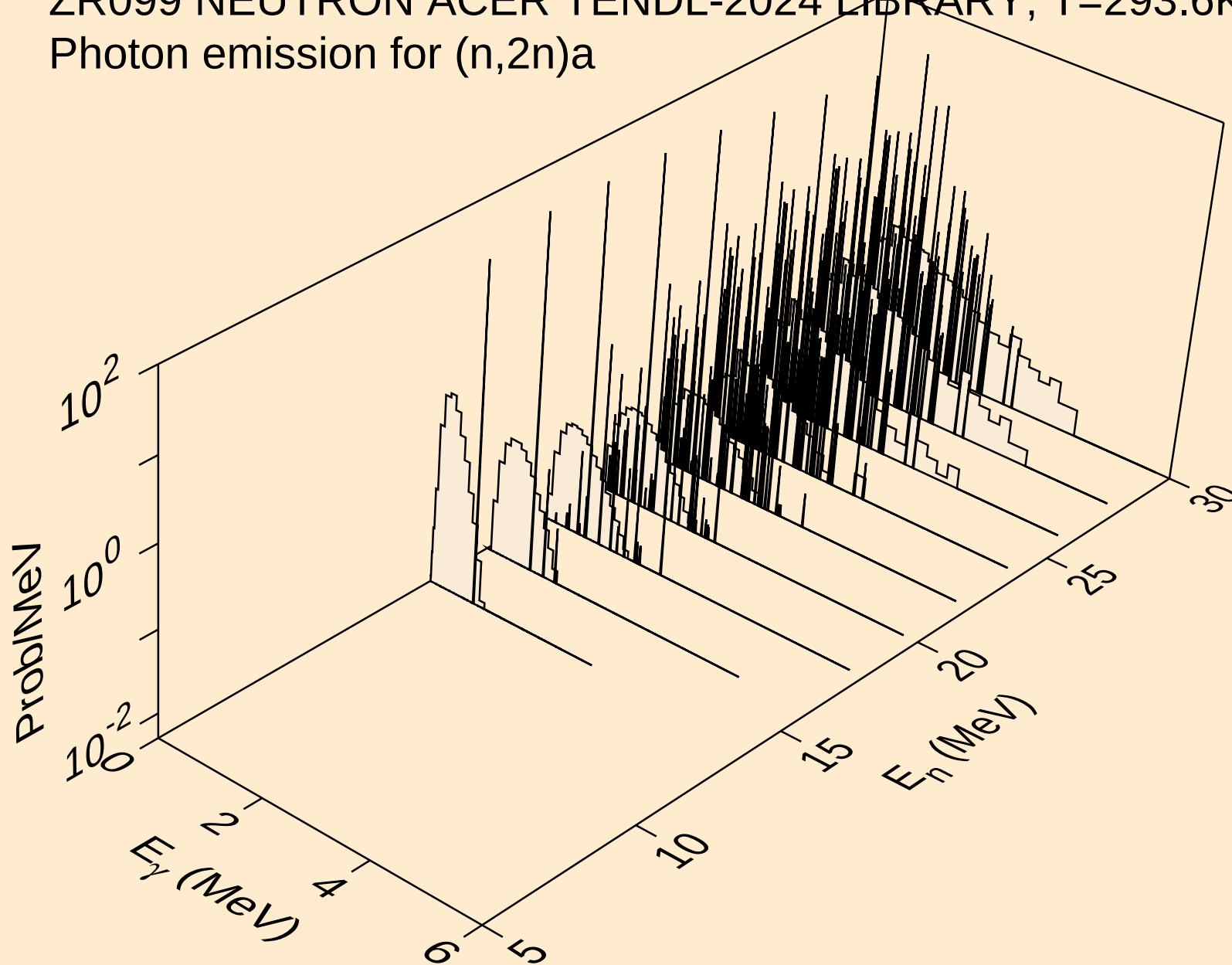


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

Photon emission for (n,n\*)a



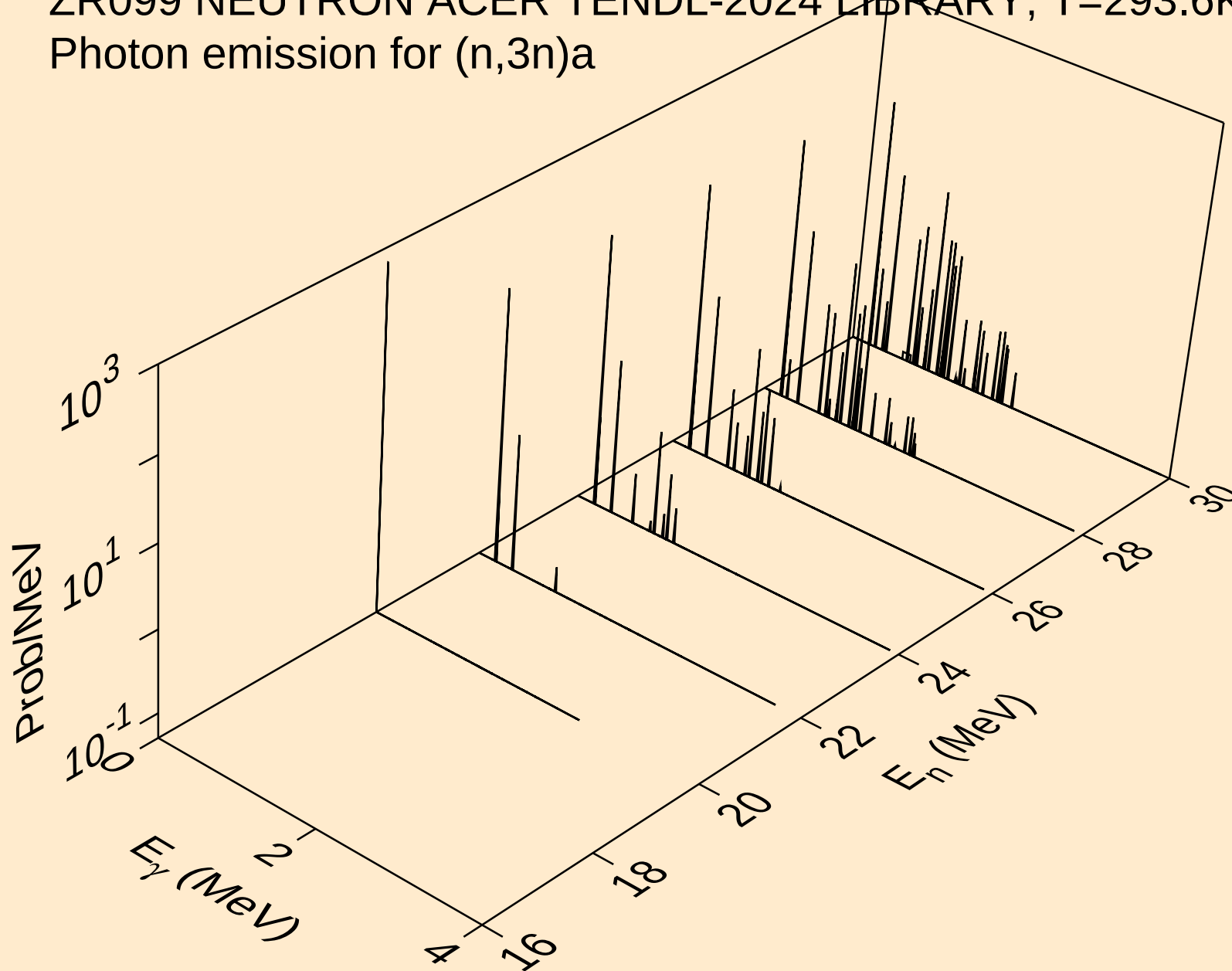
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2n) $\alpha$



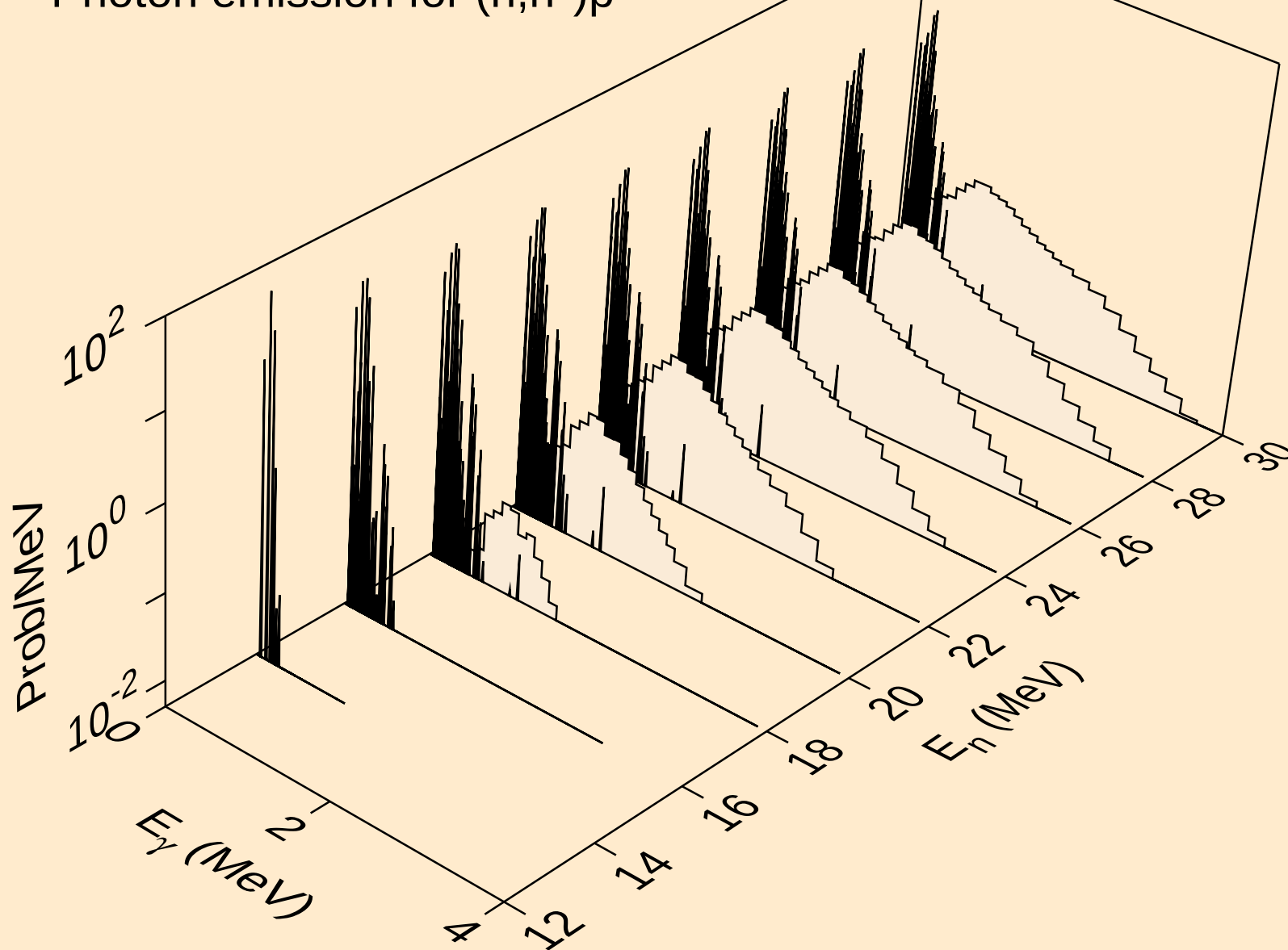


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

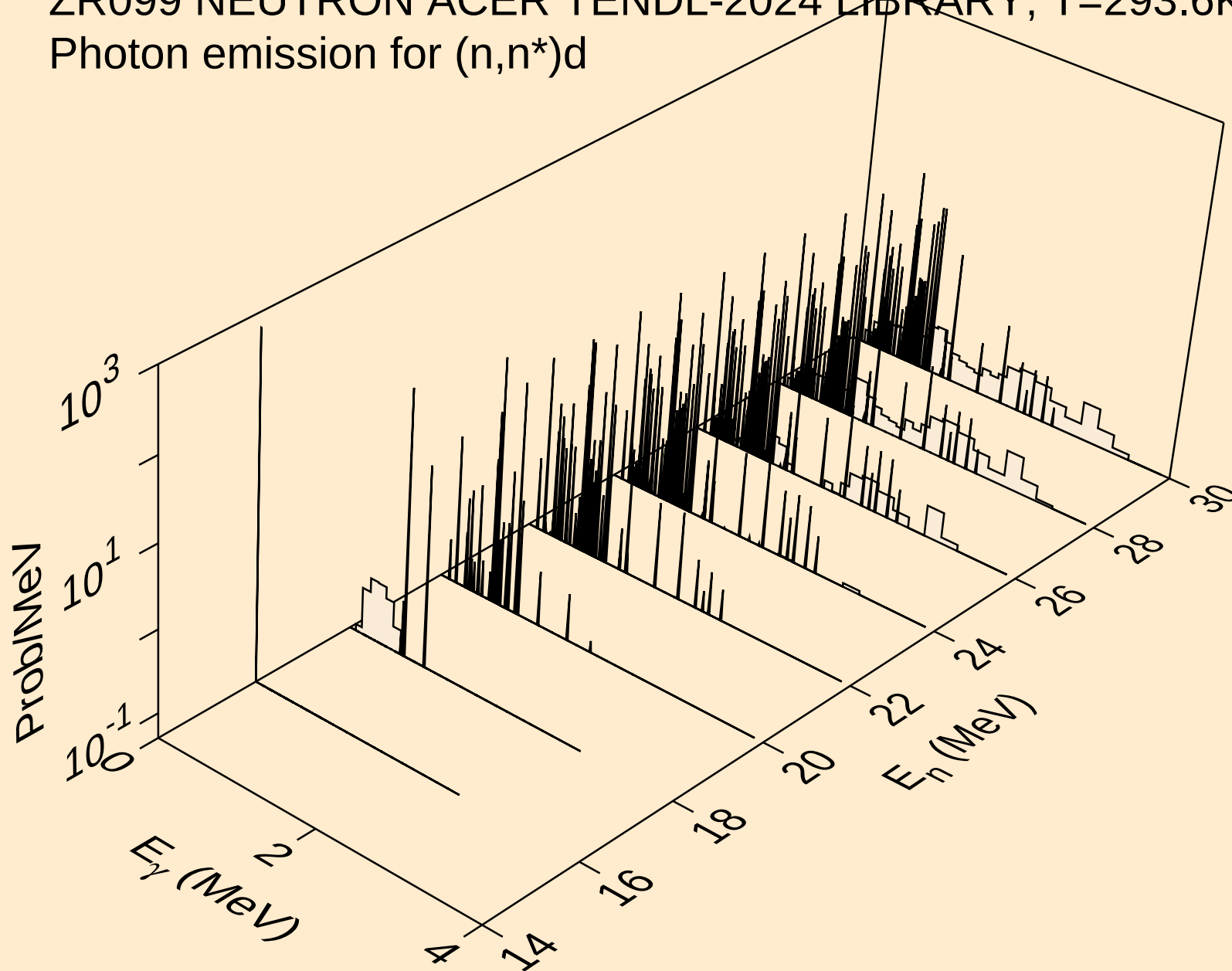
Photon emission for (n,3n) $\alpha$



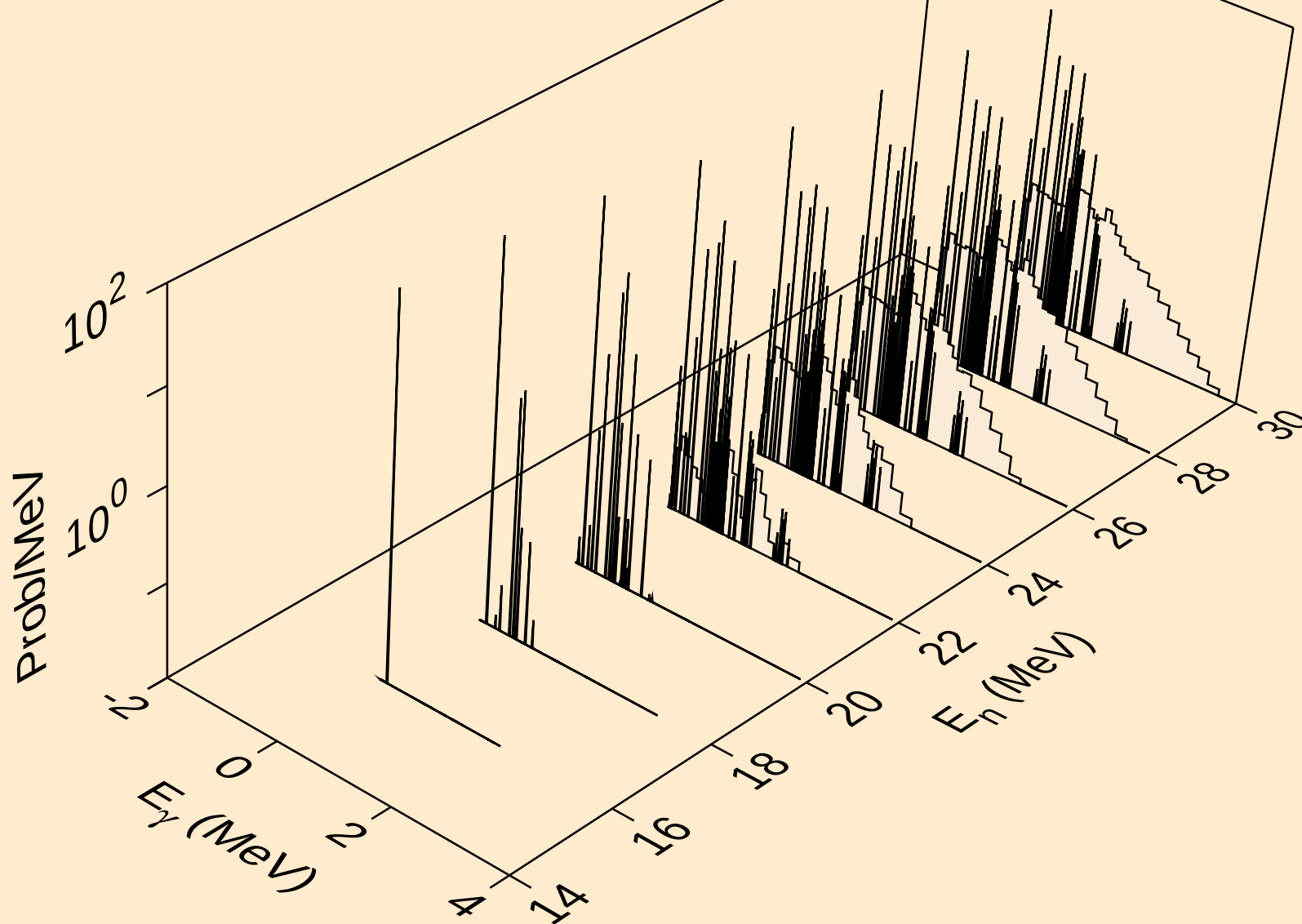
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p



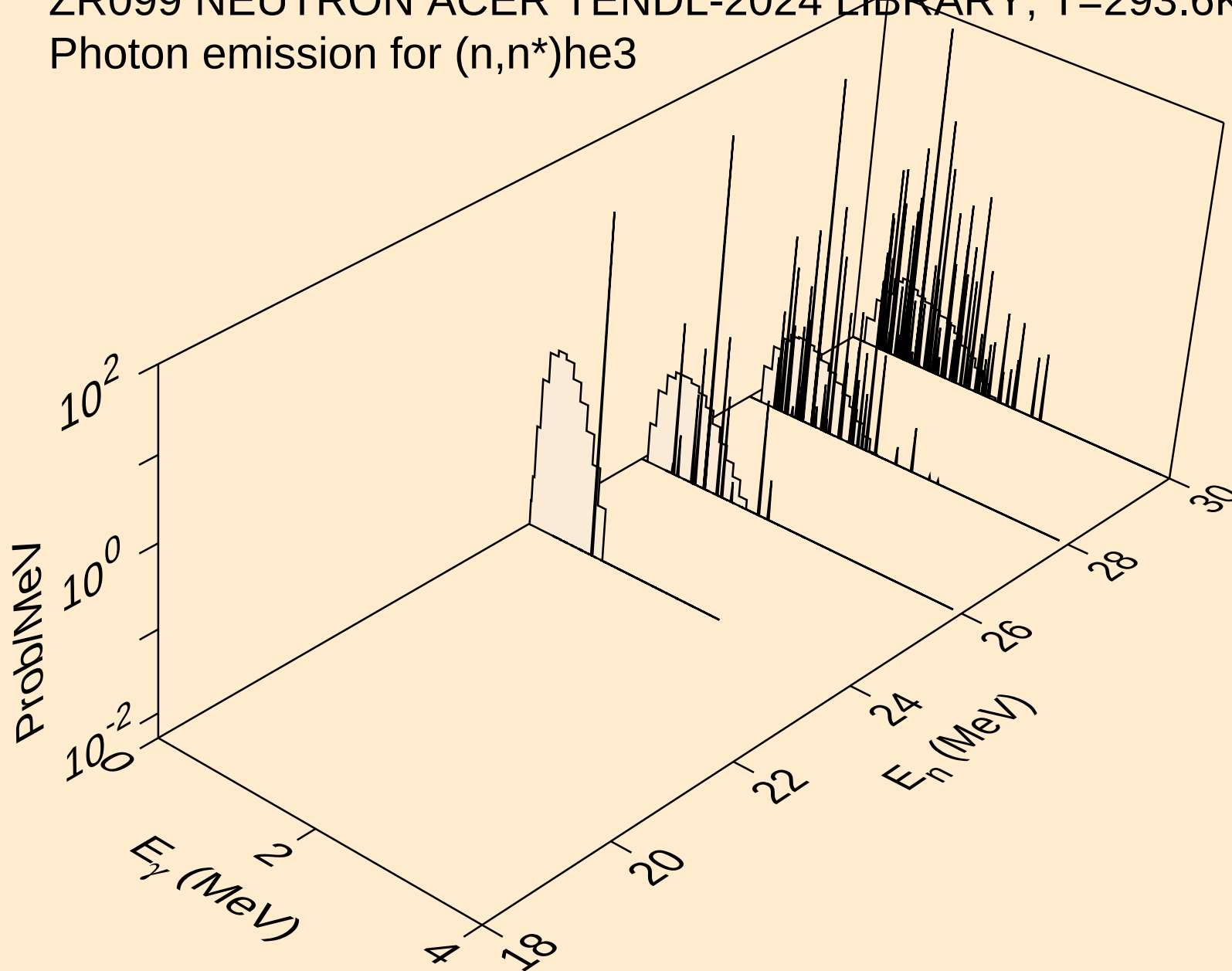
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Photon emission for (n,n\*)d



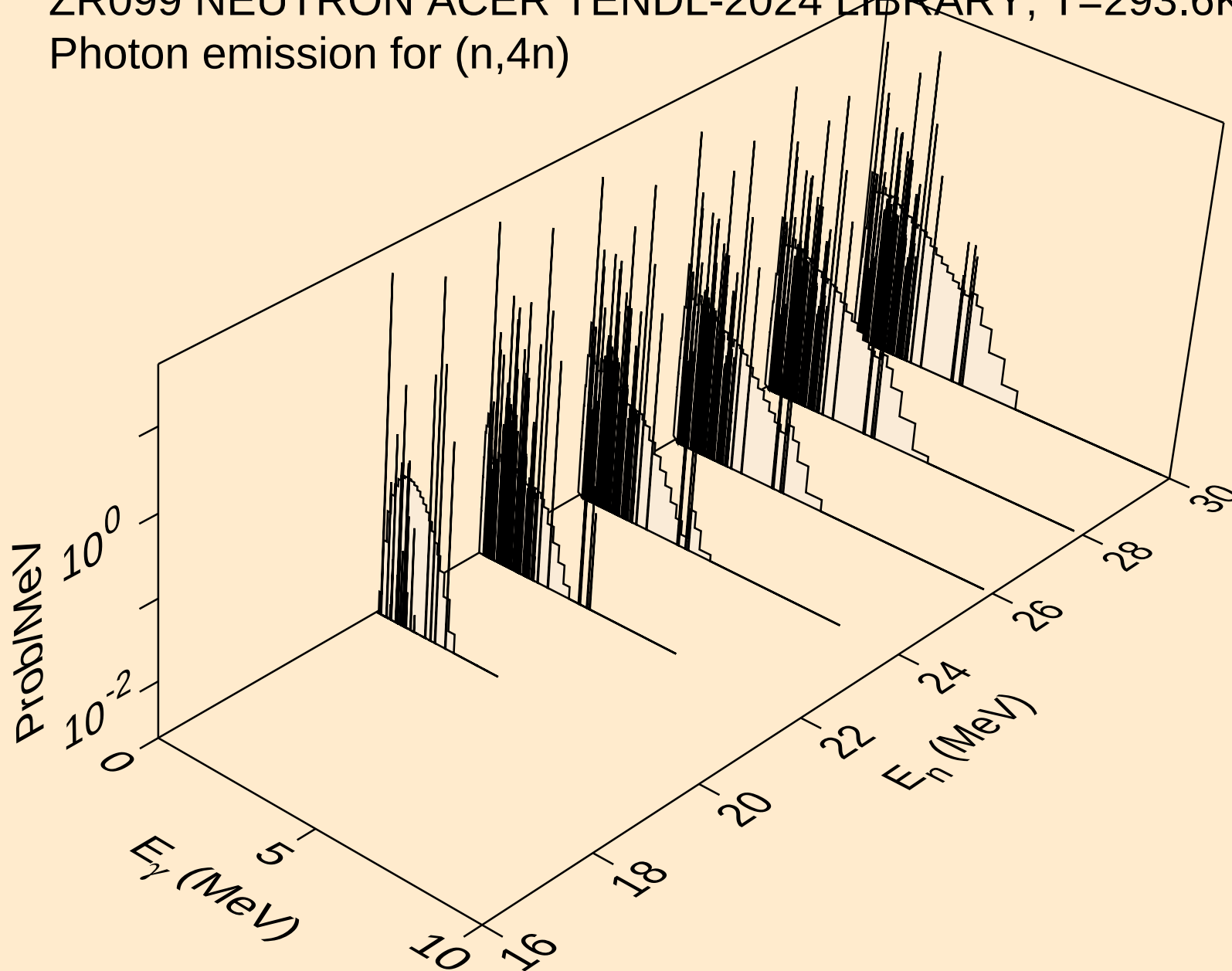
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Photon emission for (n,n\*)t



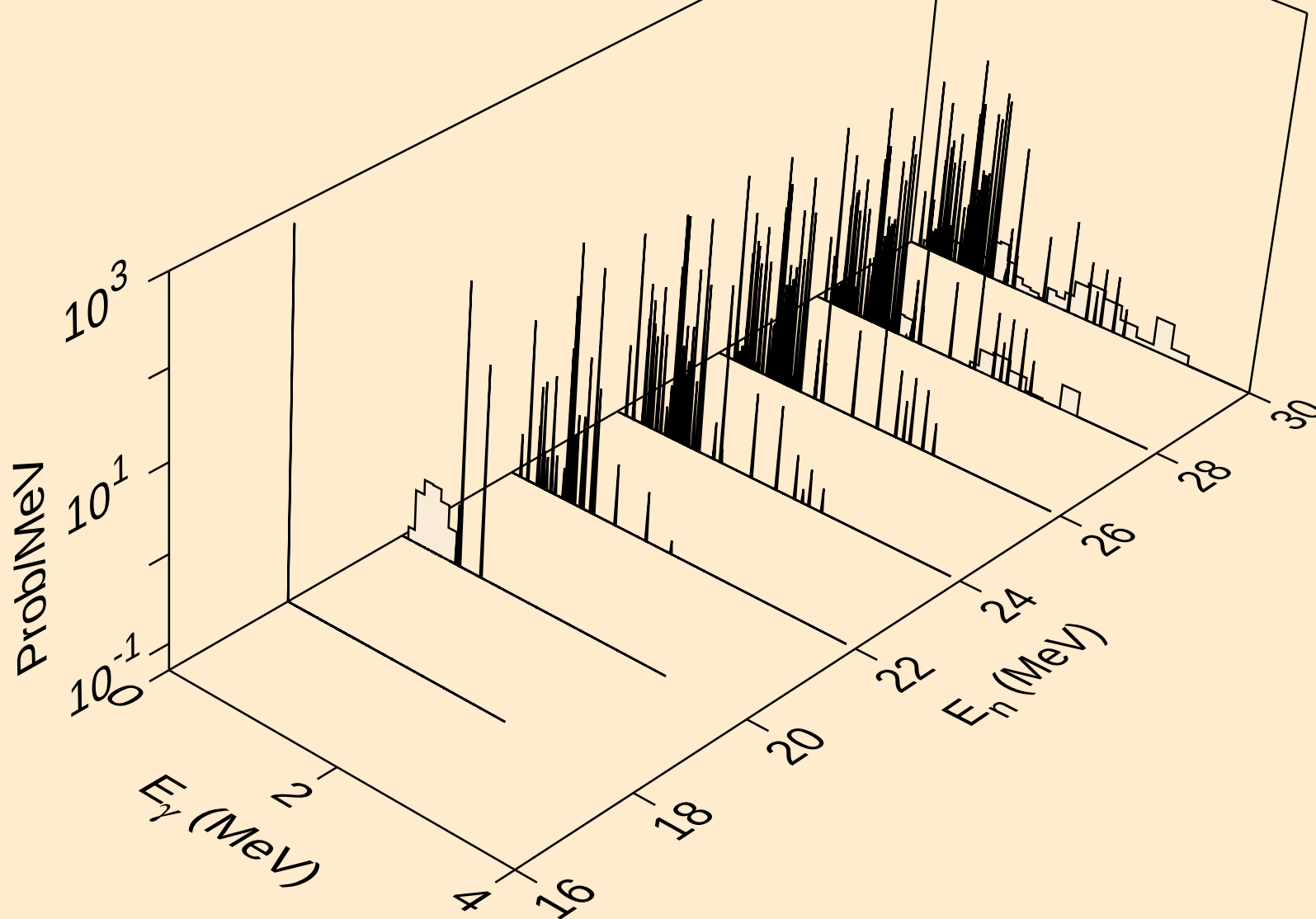
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



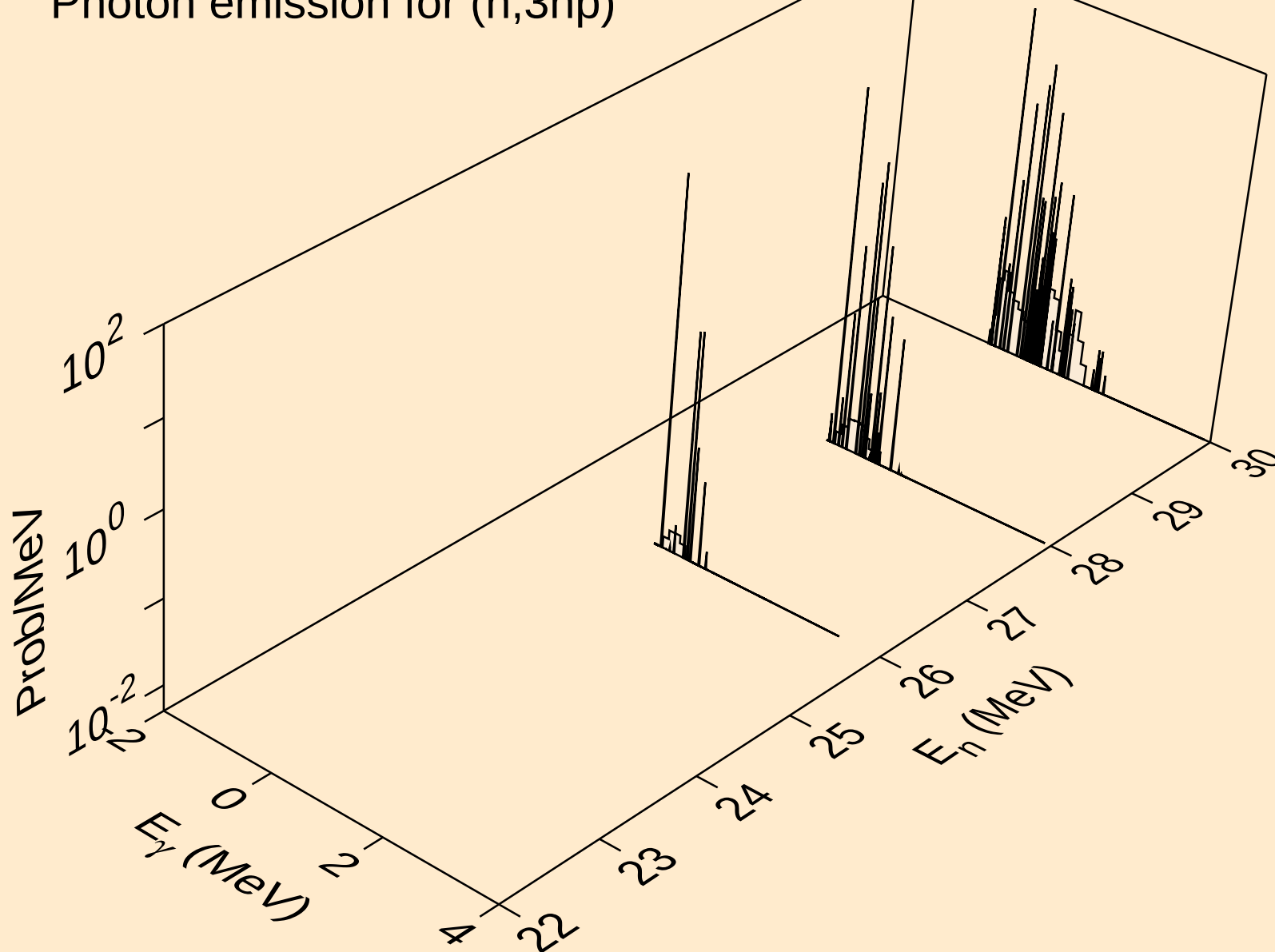
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,4n)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2np)

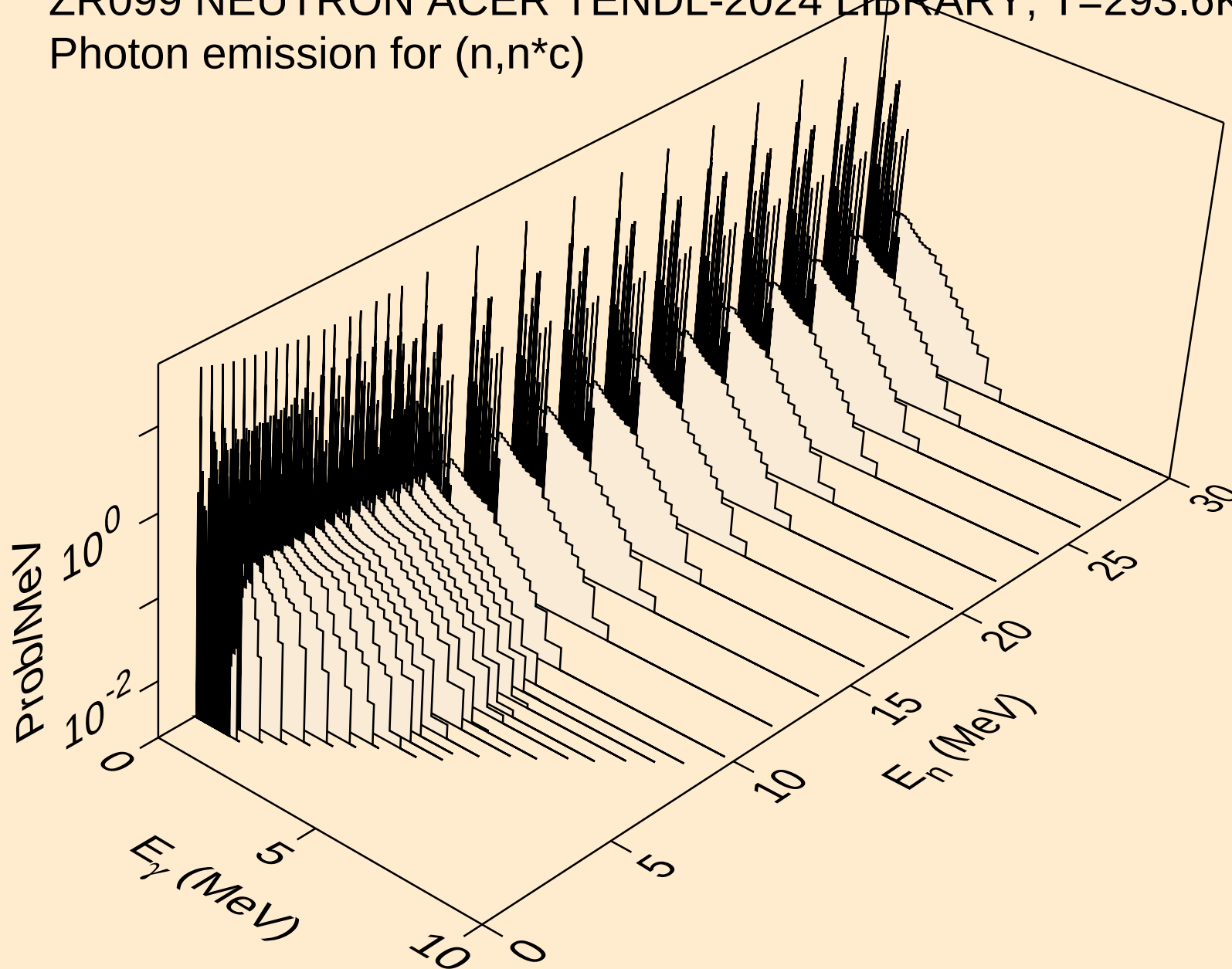


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,3np)

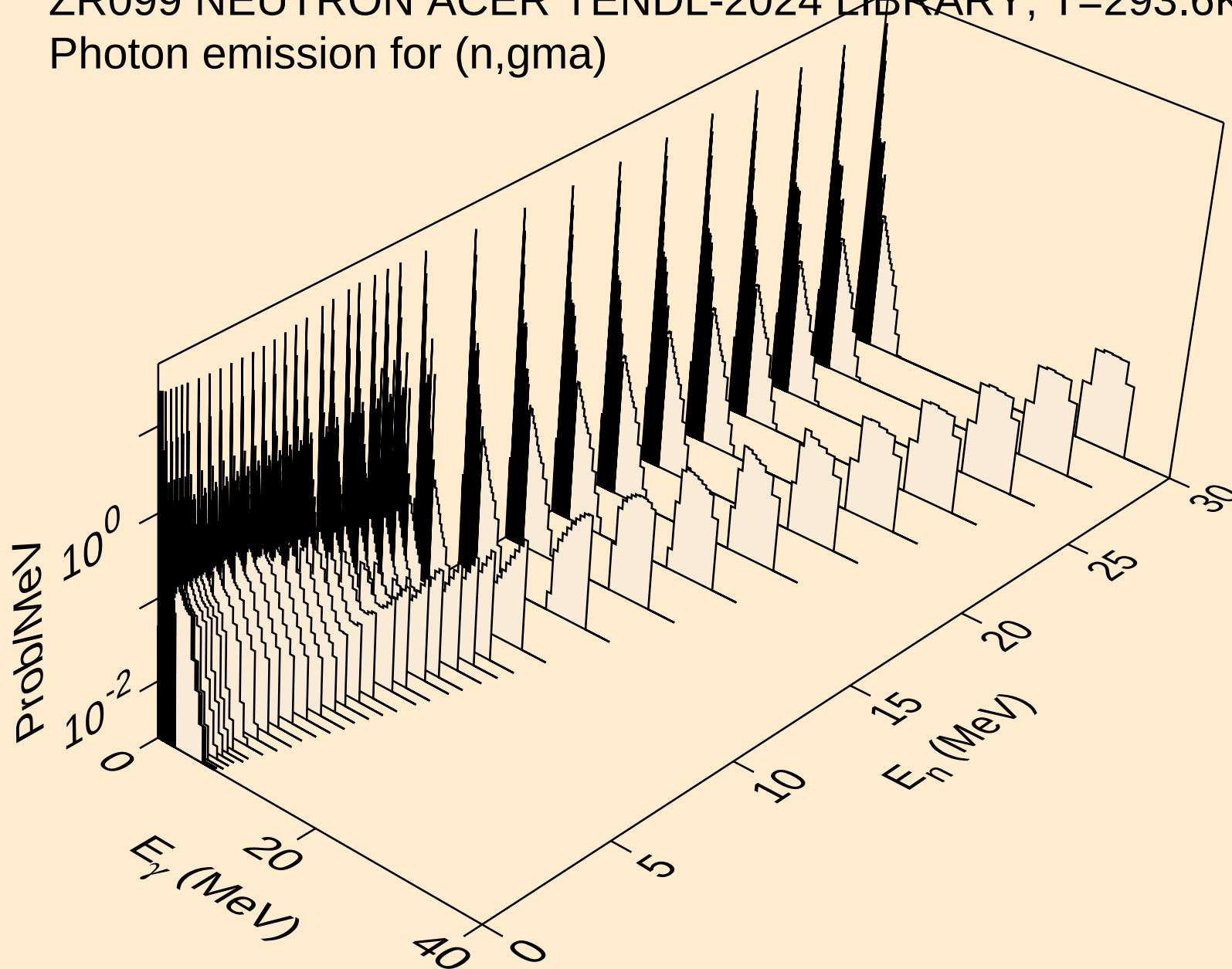




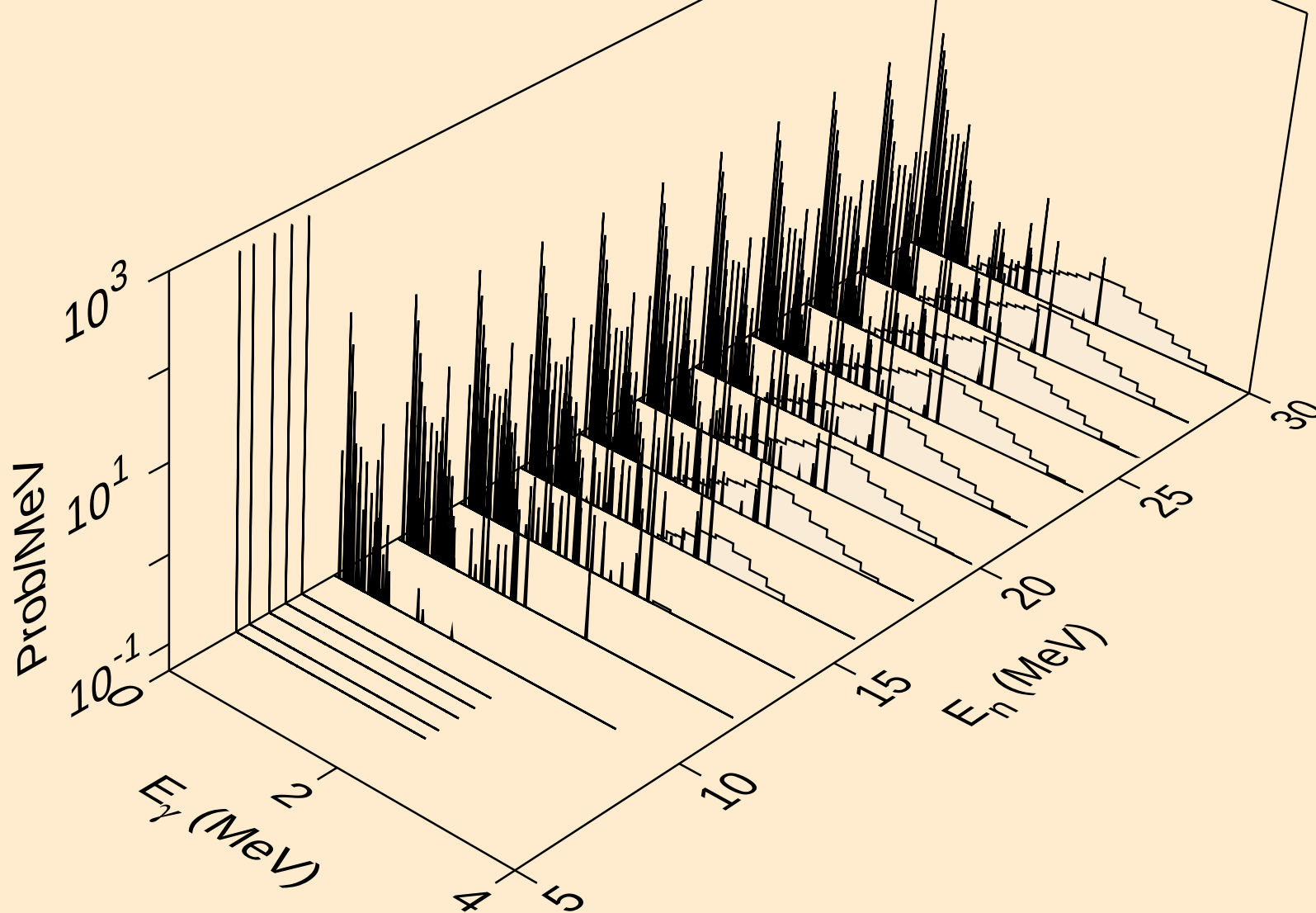
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)



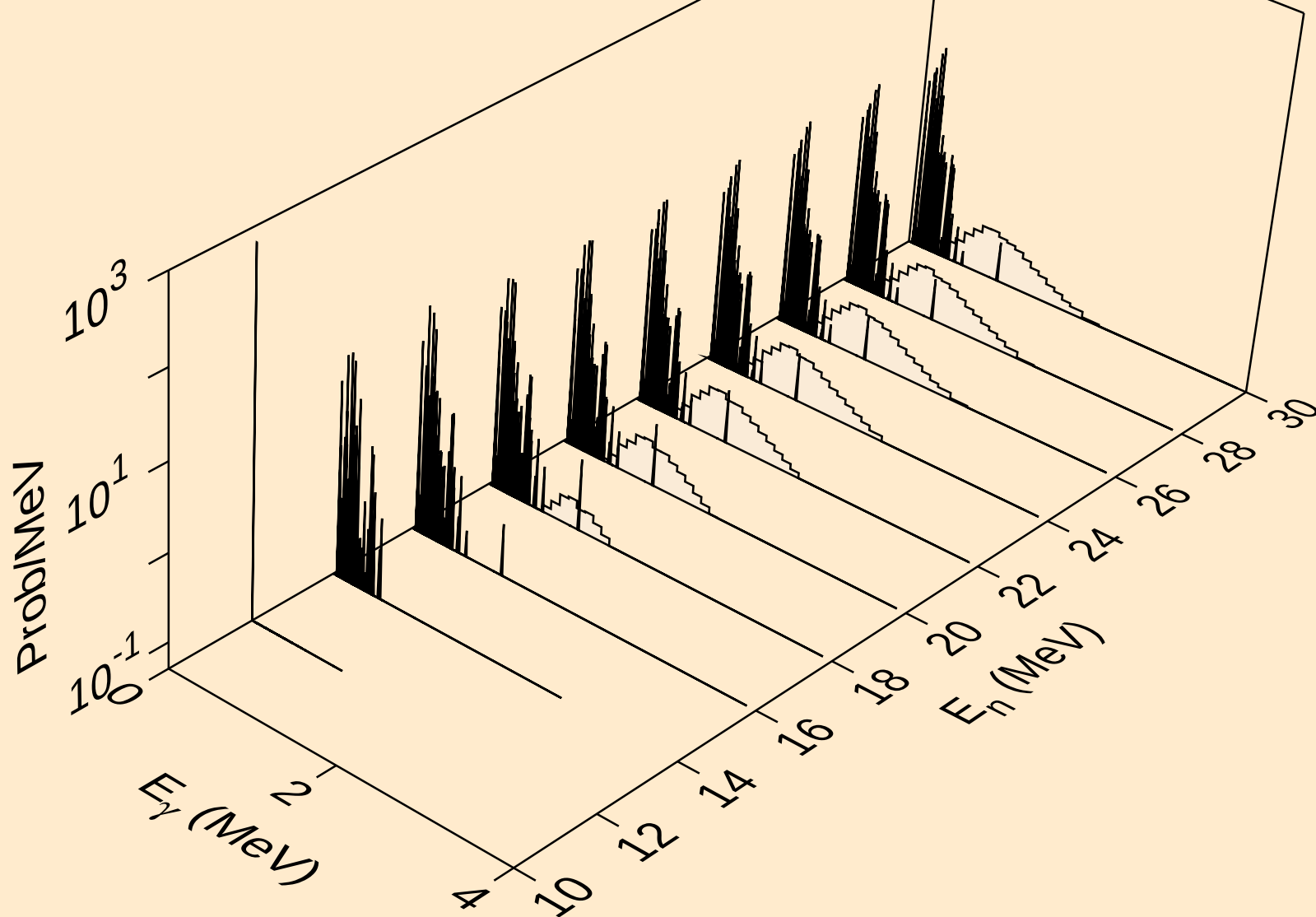
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Photon emission for (n,gma)



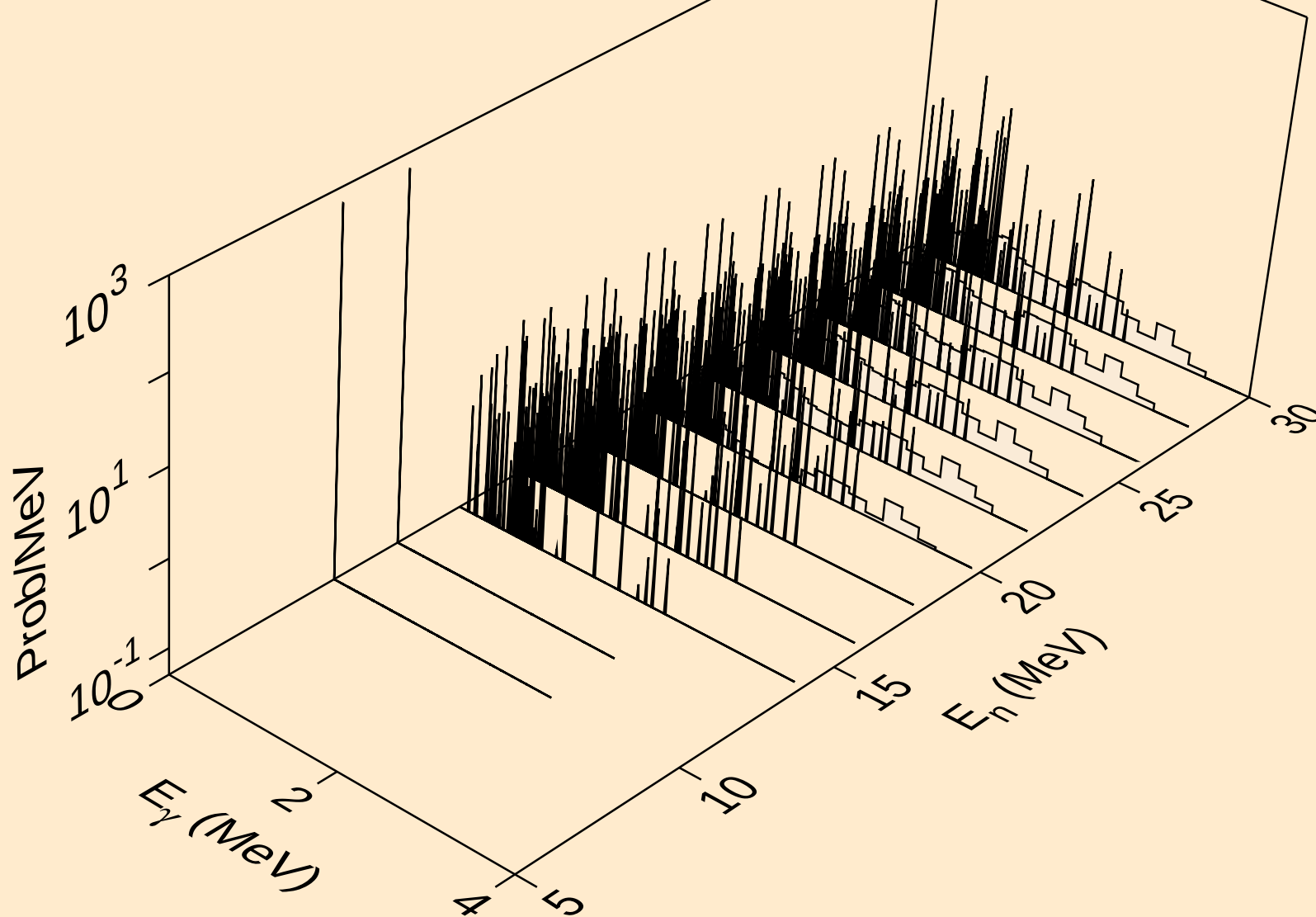
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Photon emission for (n,p)



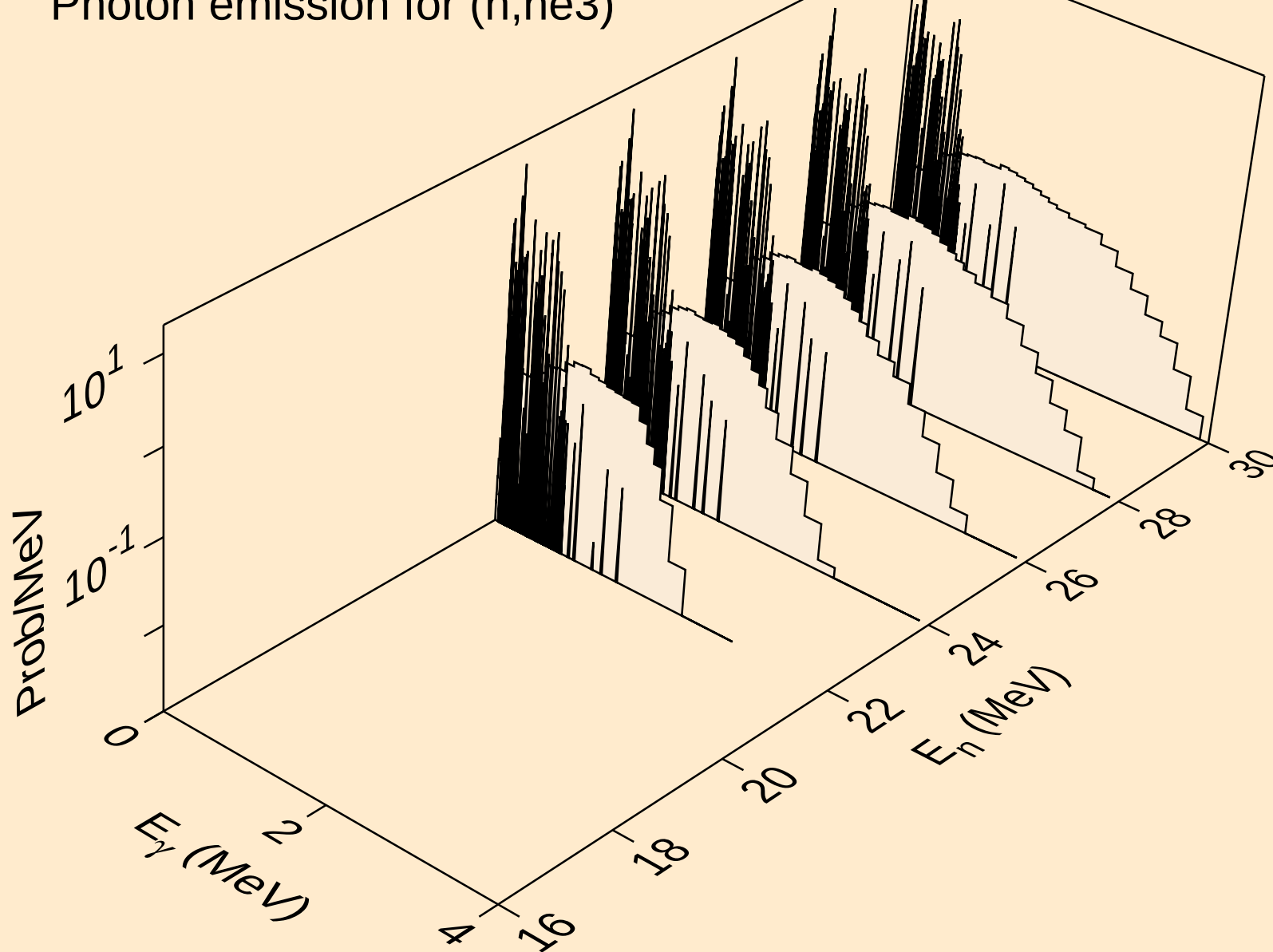
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,d)



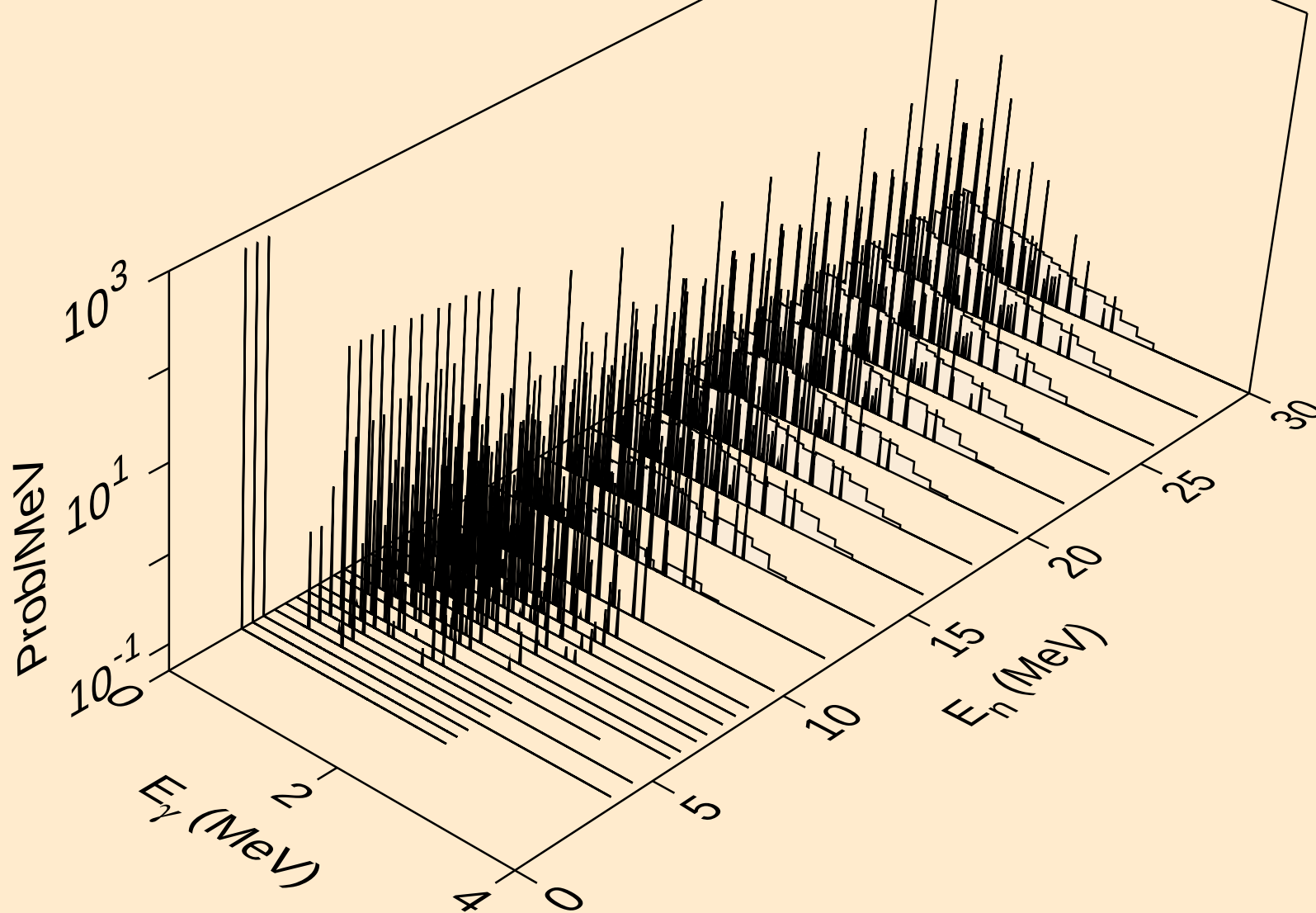
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,t)



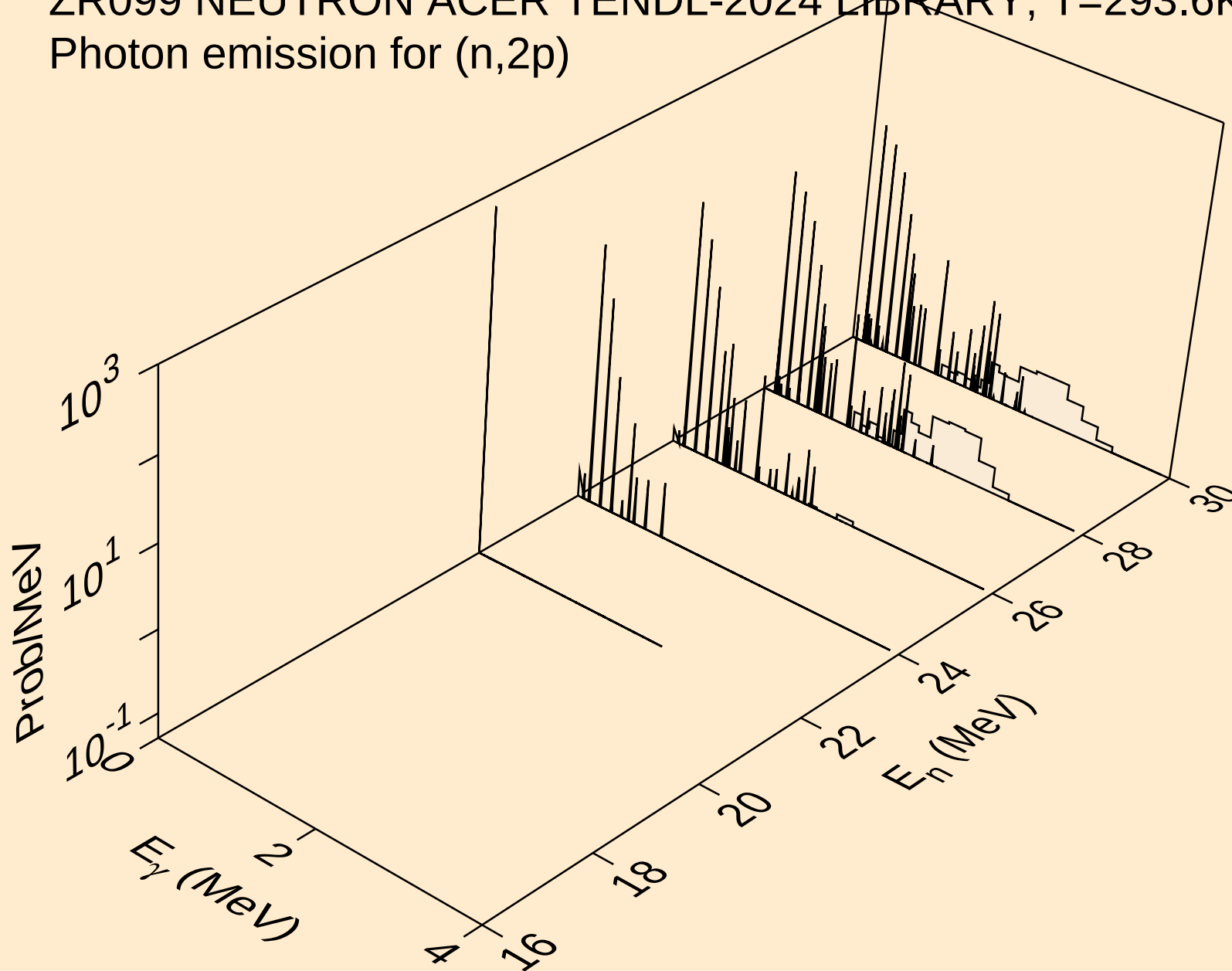
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,he3)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,a)

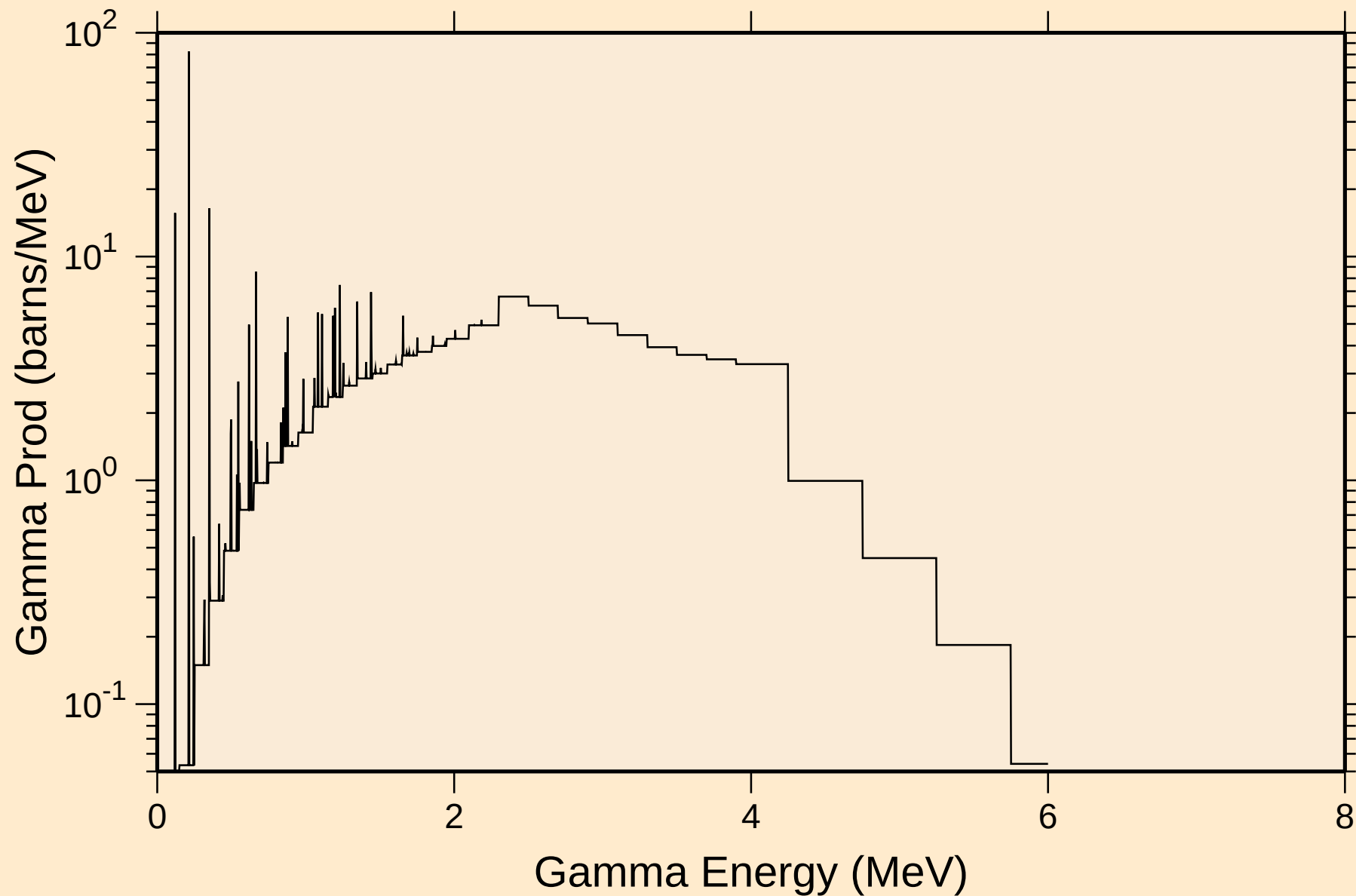


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,2p)

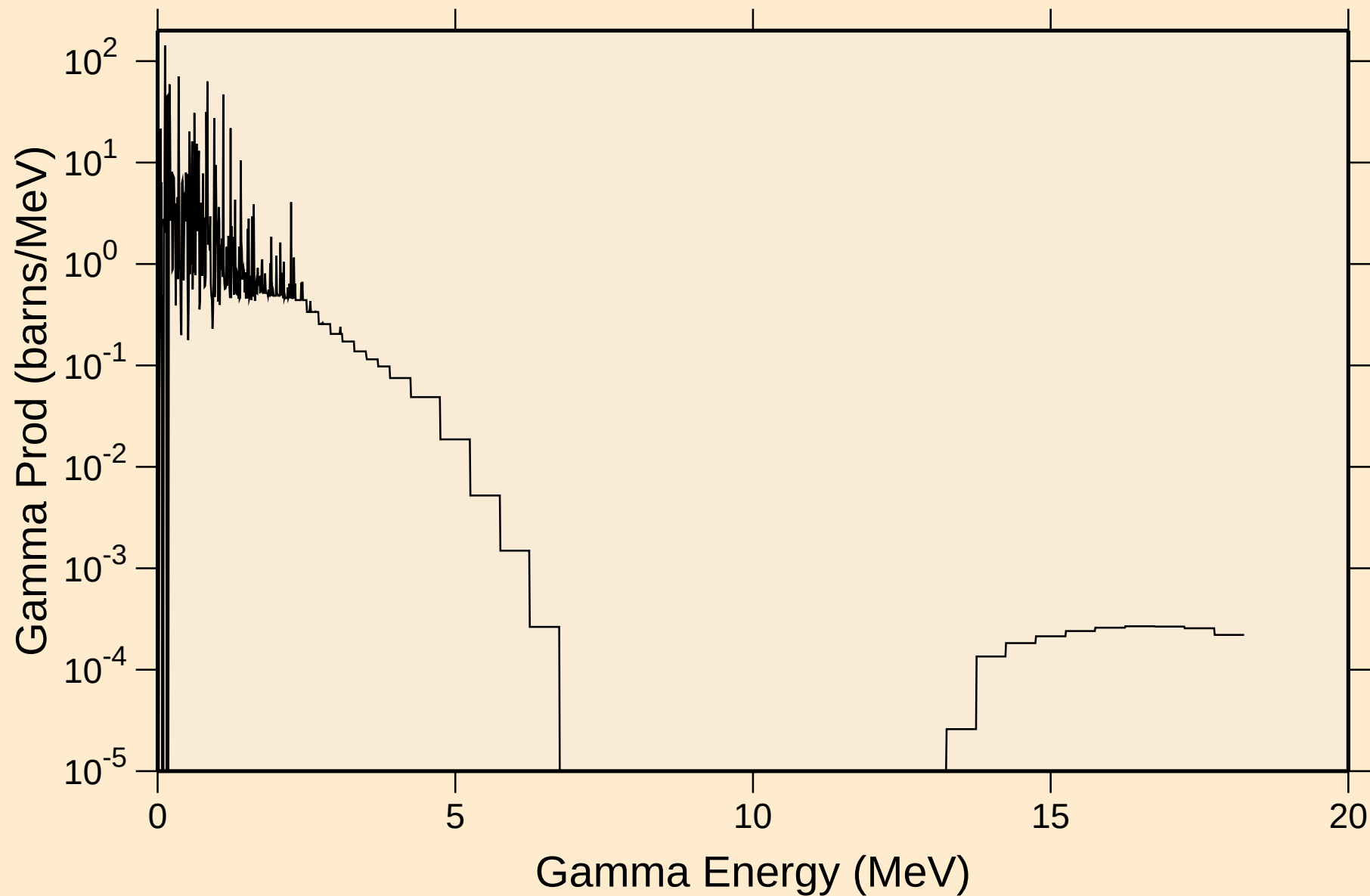




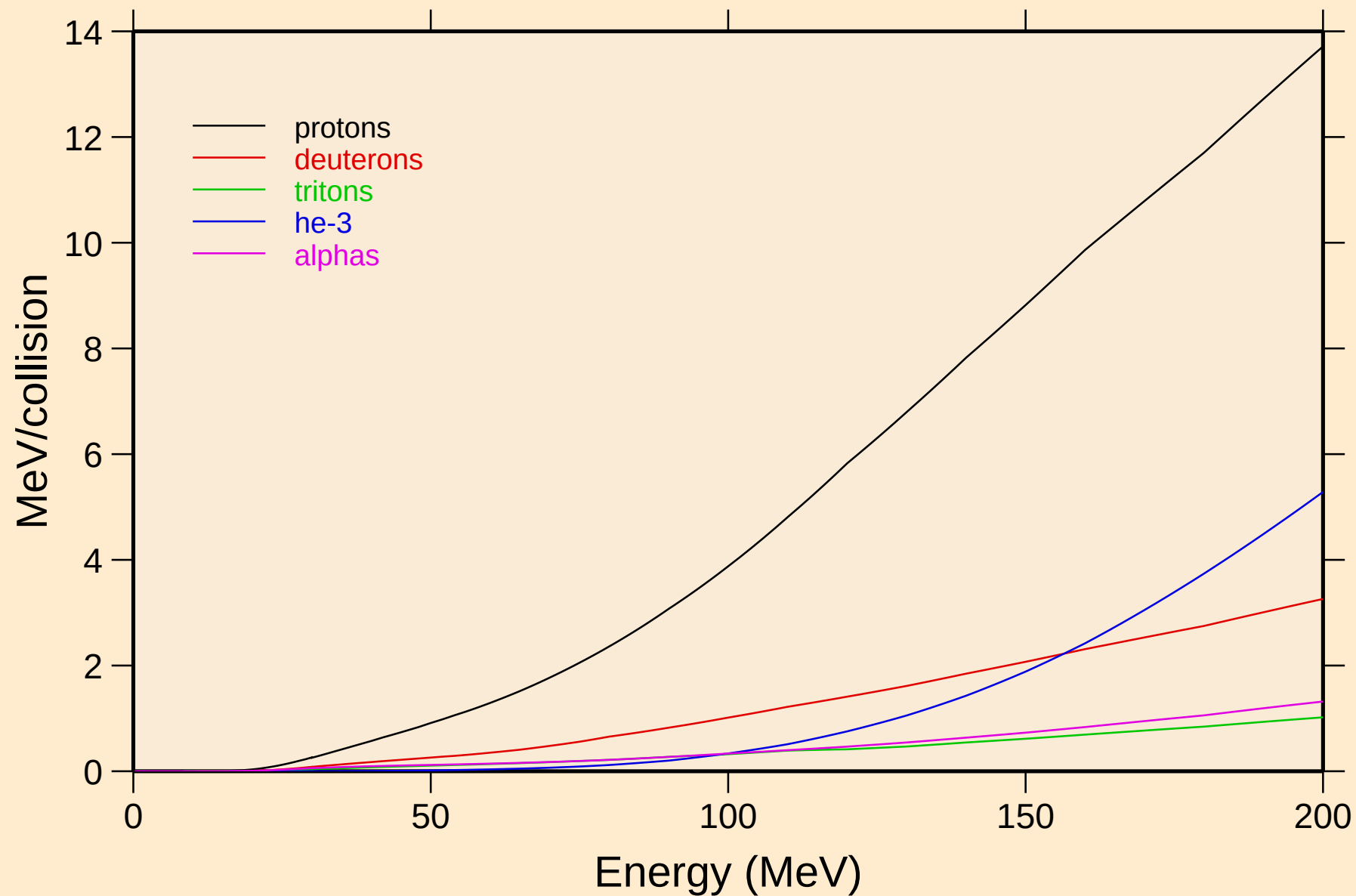
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum



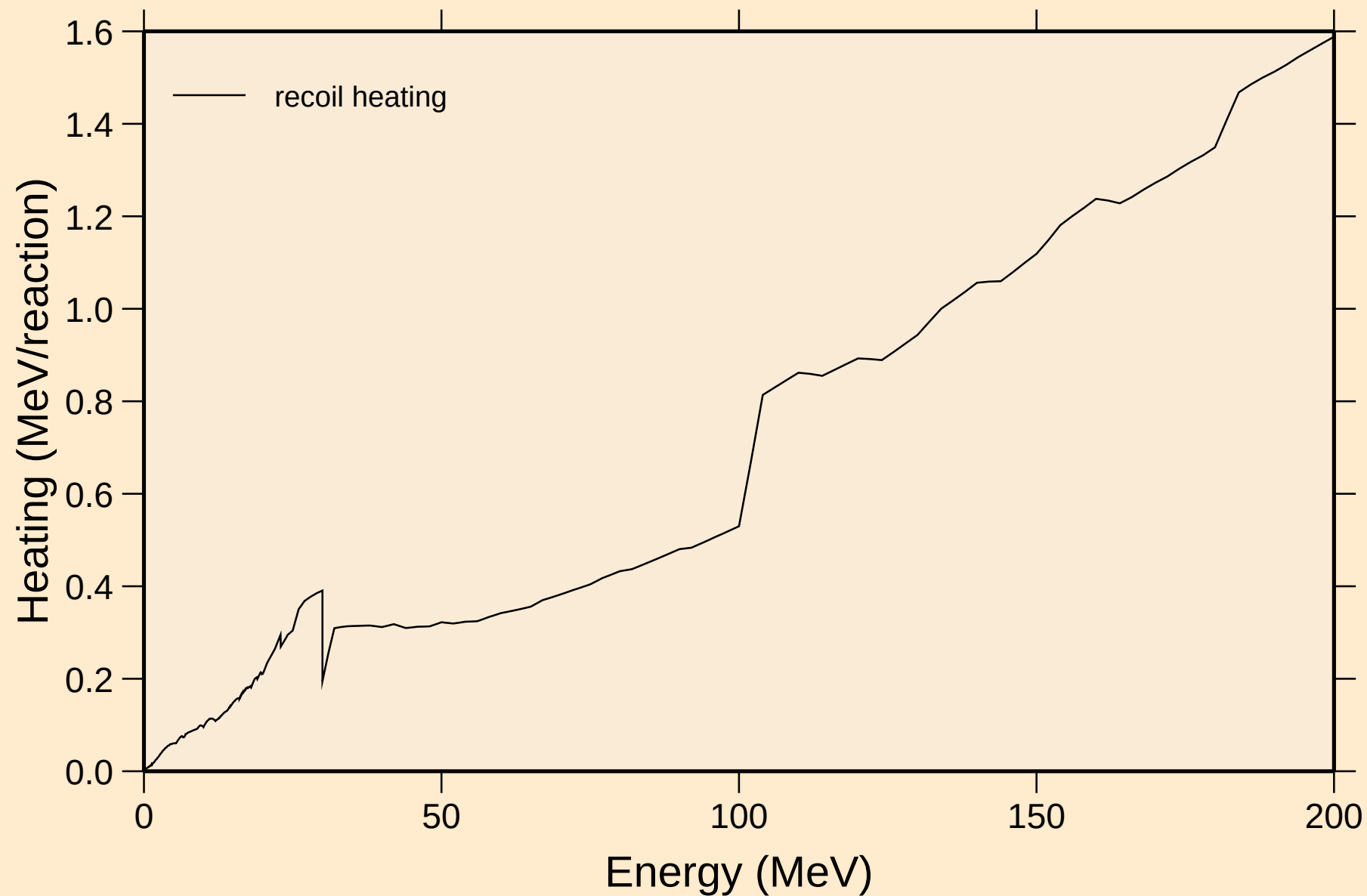
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
14 MeV photon spectrum



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Particle heating contributions

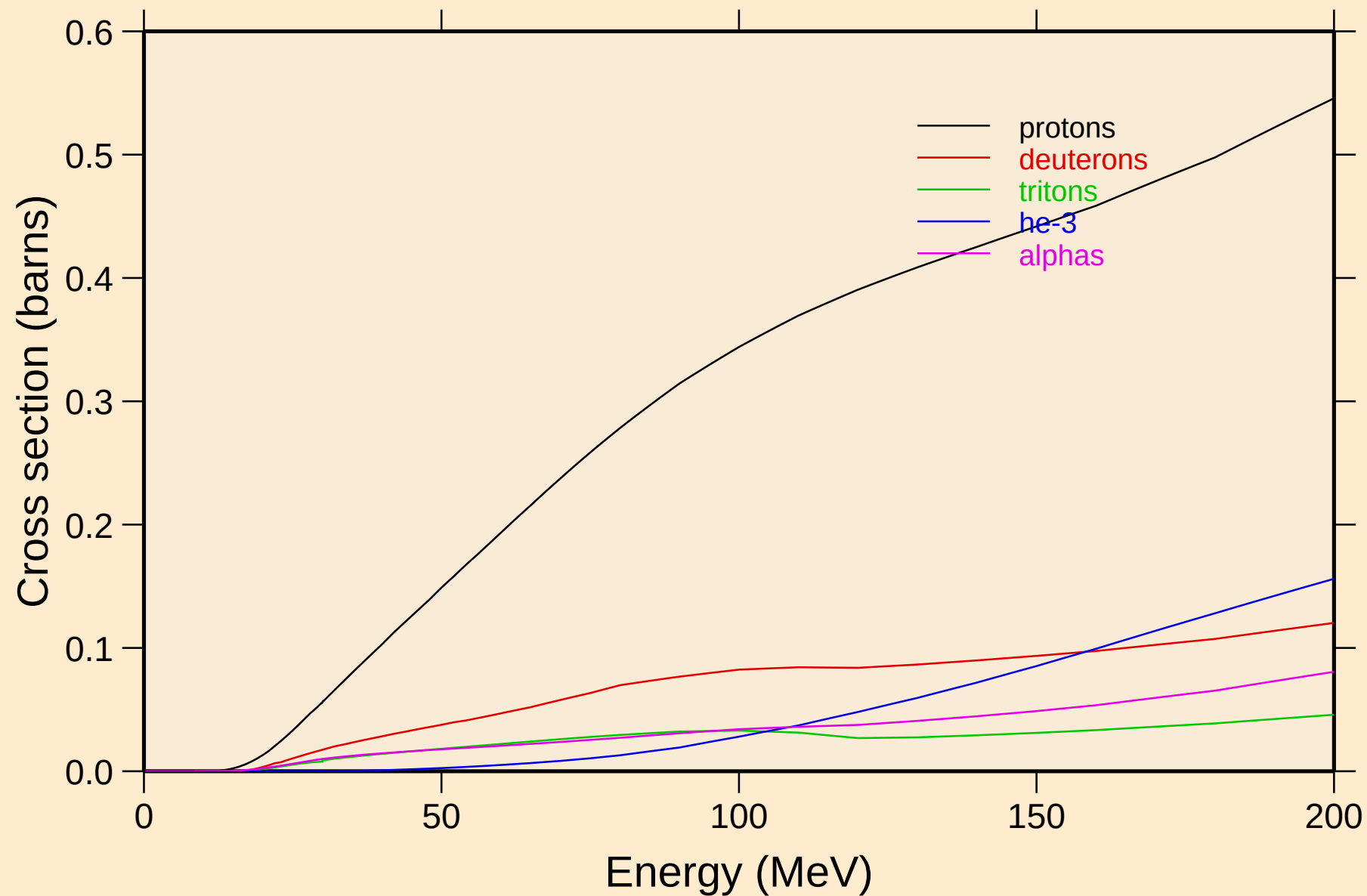


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Recoil Heating

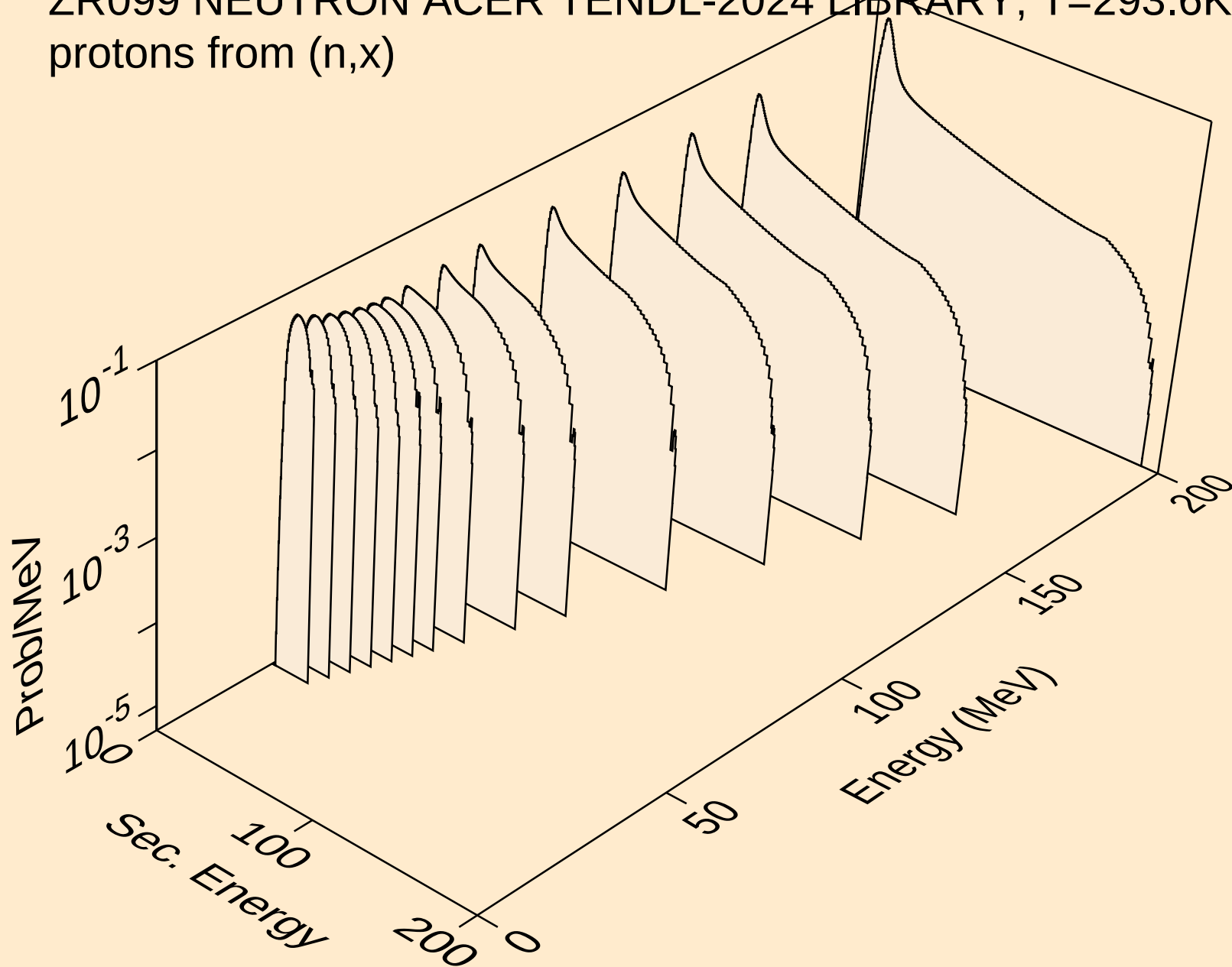


# ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

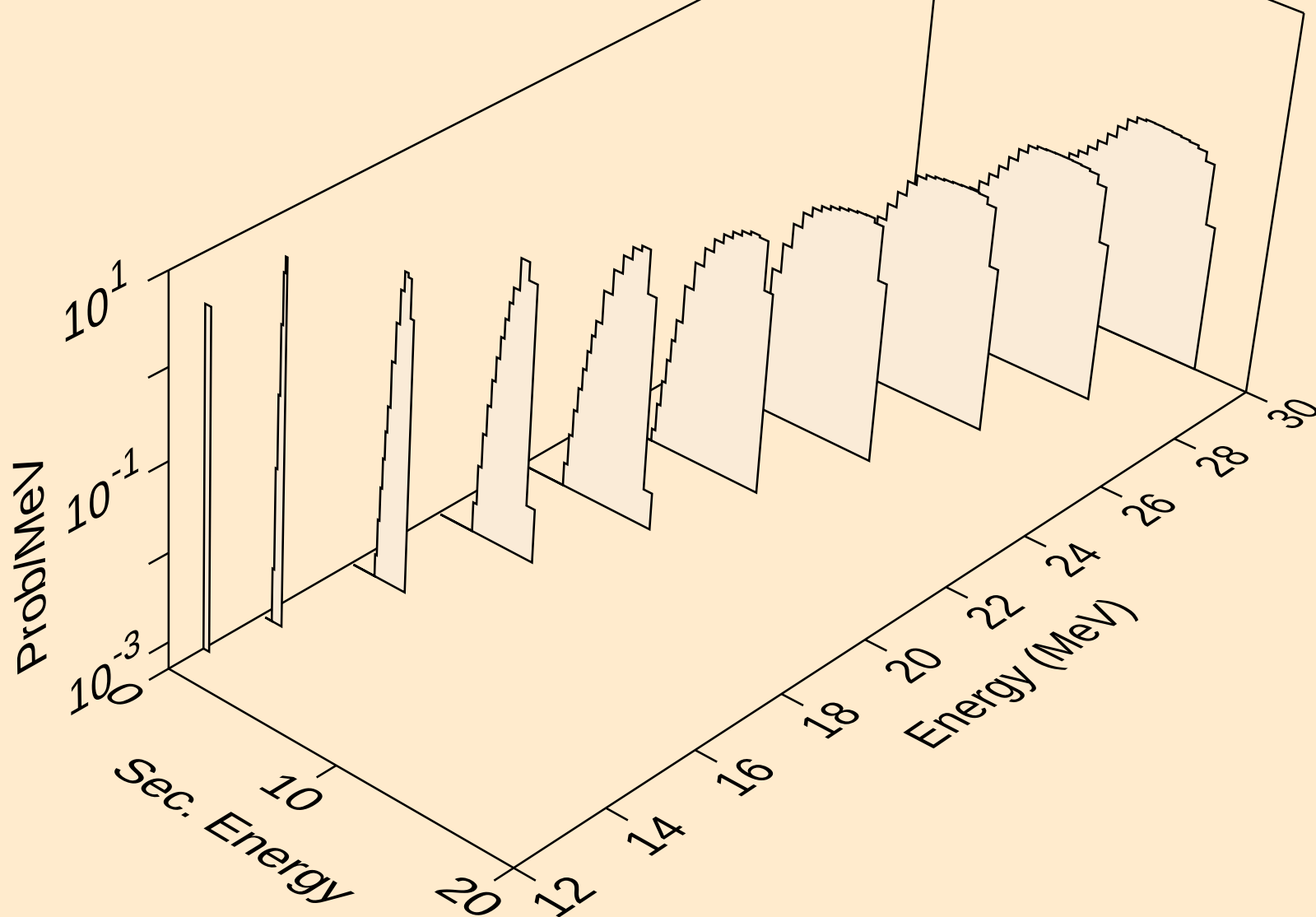
## Particle production cross sections



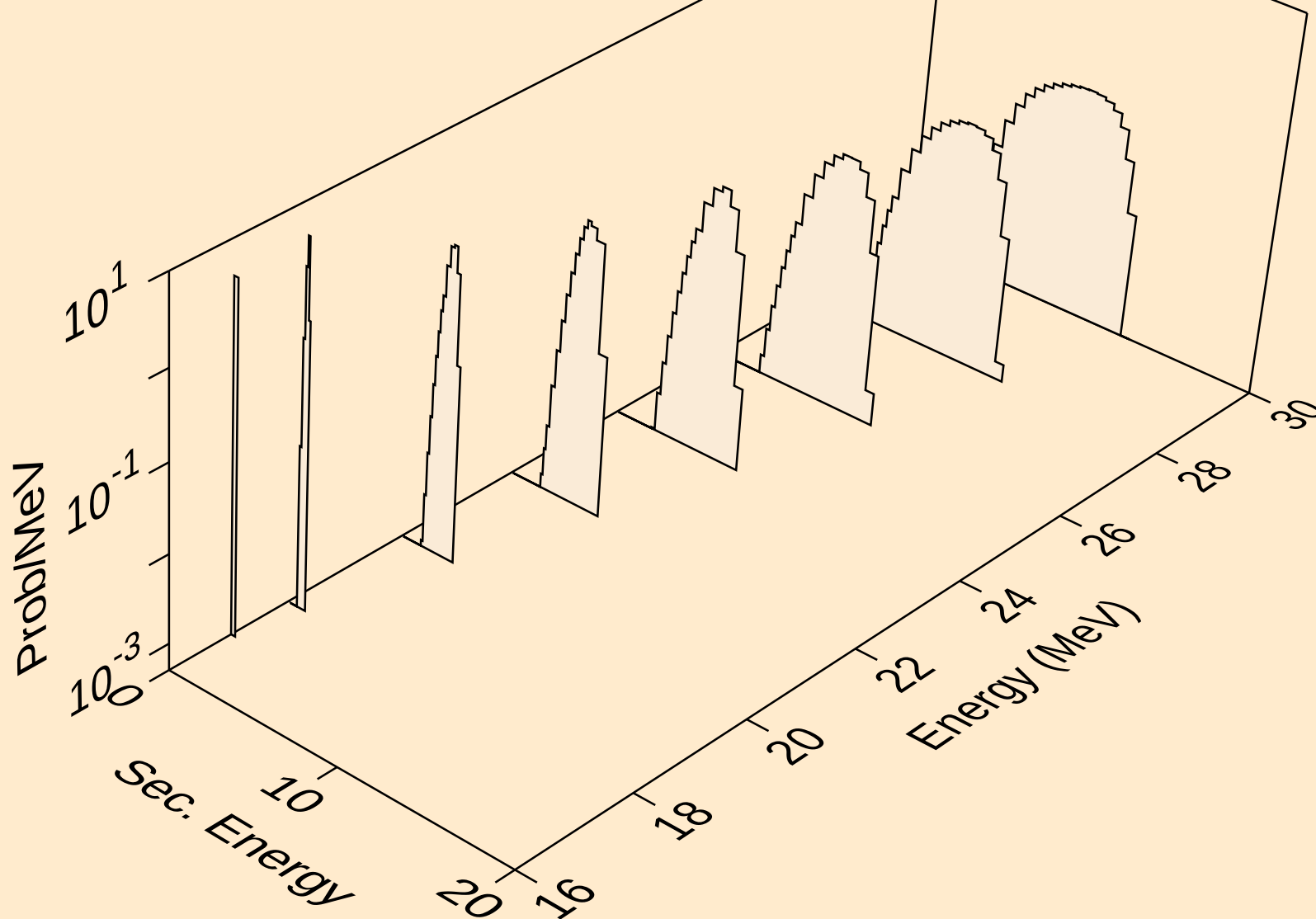
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,x)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,n\*)p

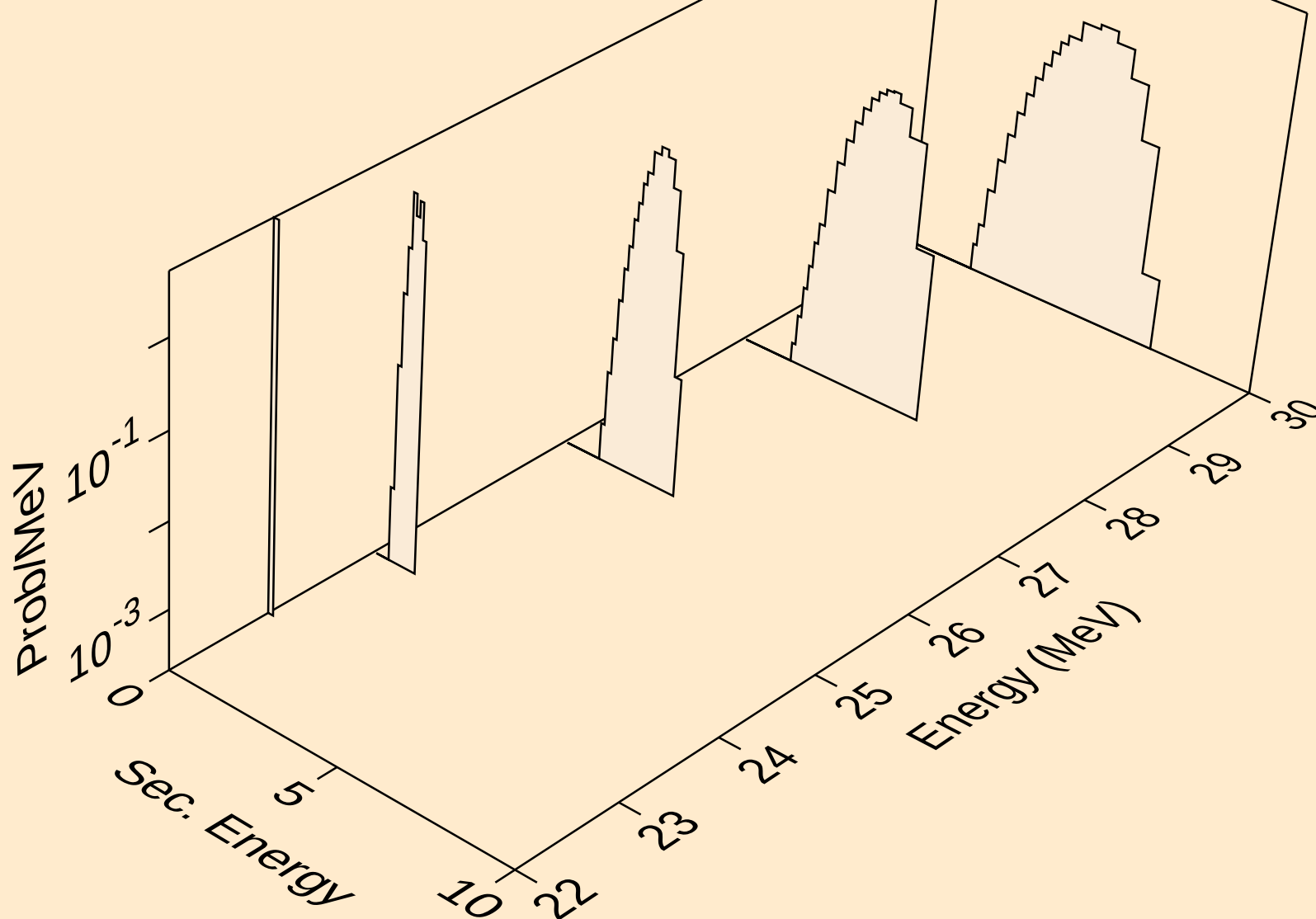


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,2np)

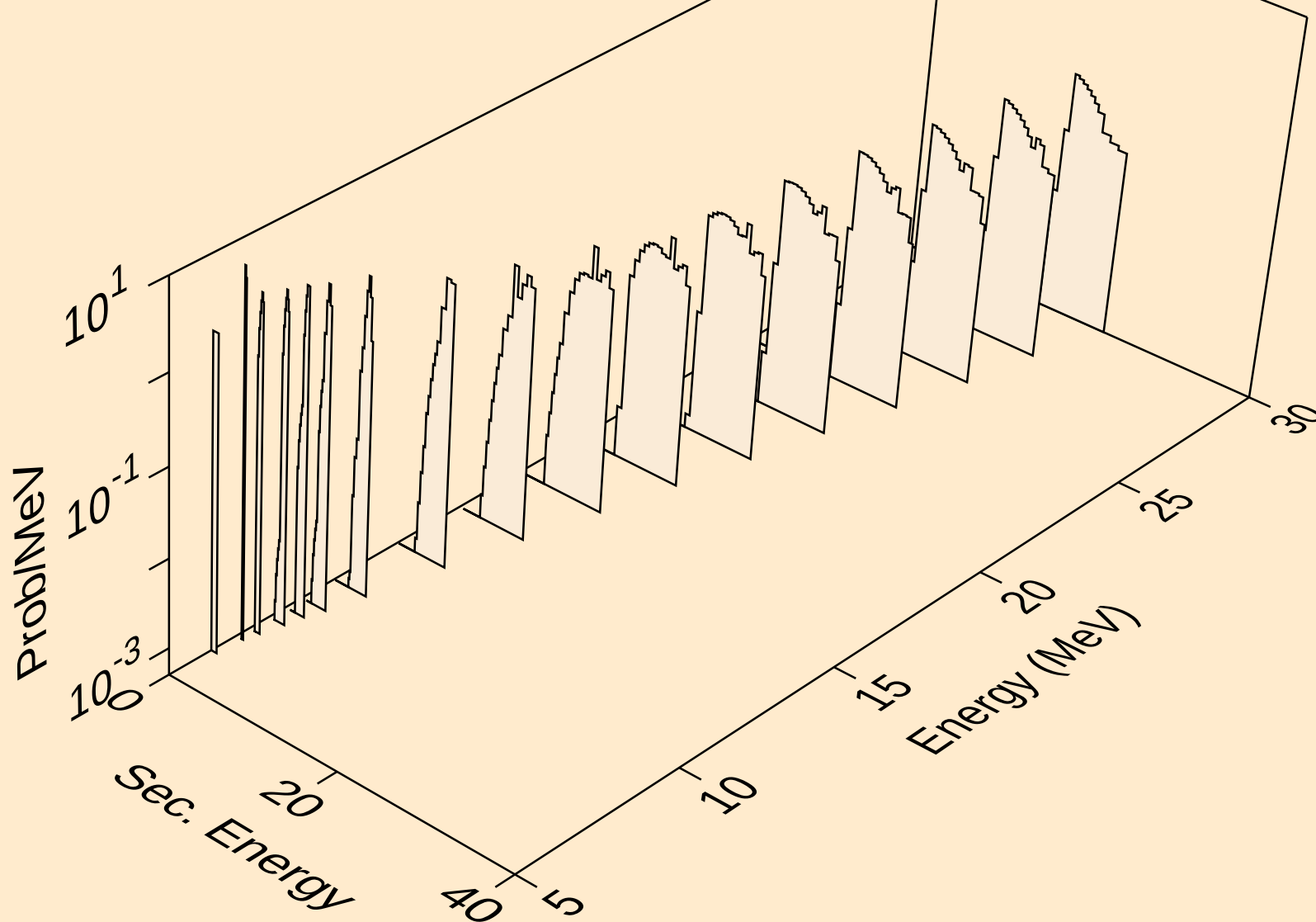




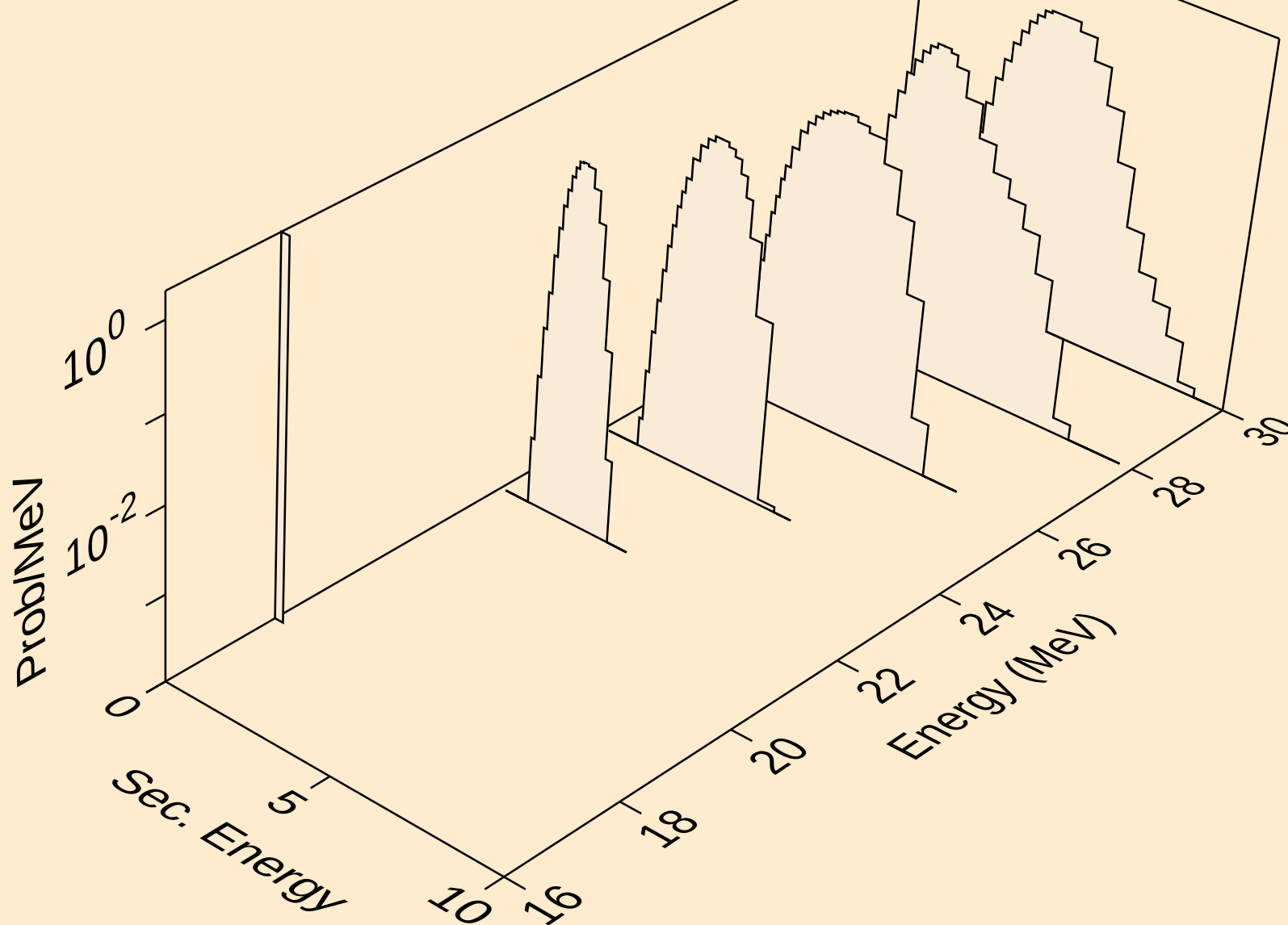
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,3np)



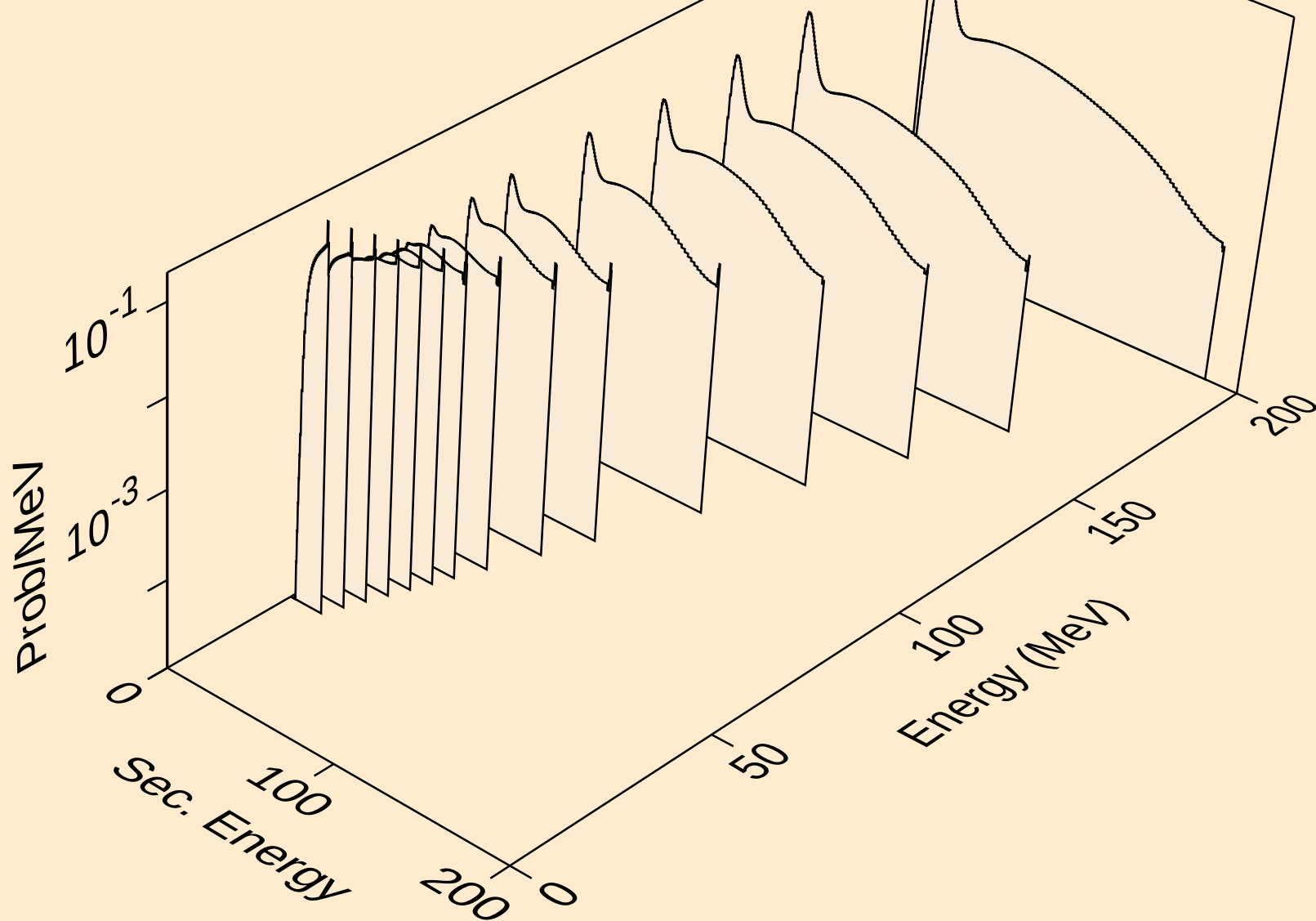
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protons from (n,p)



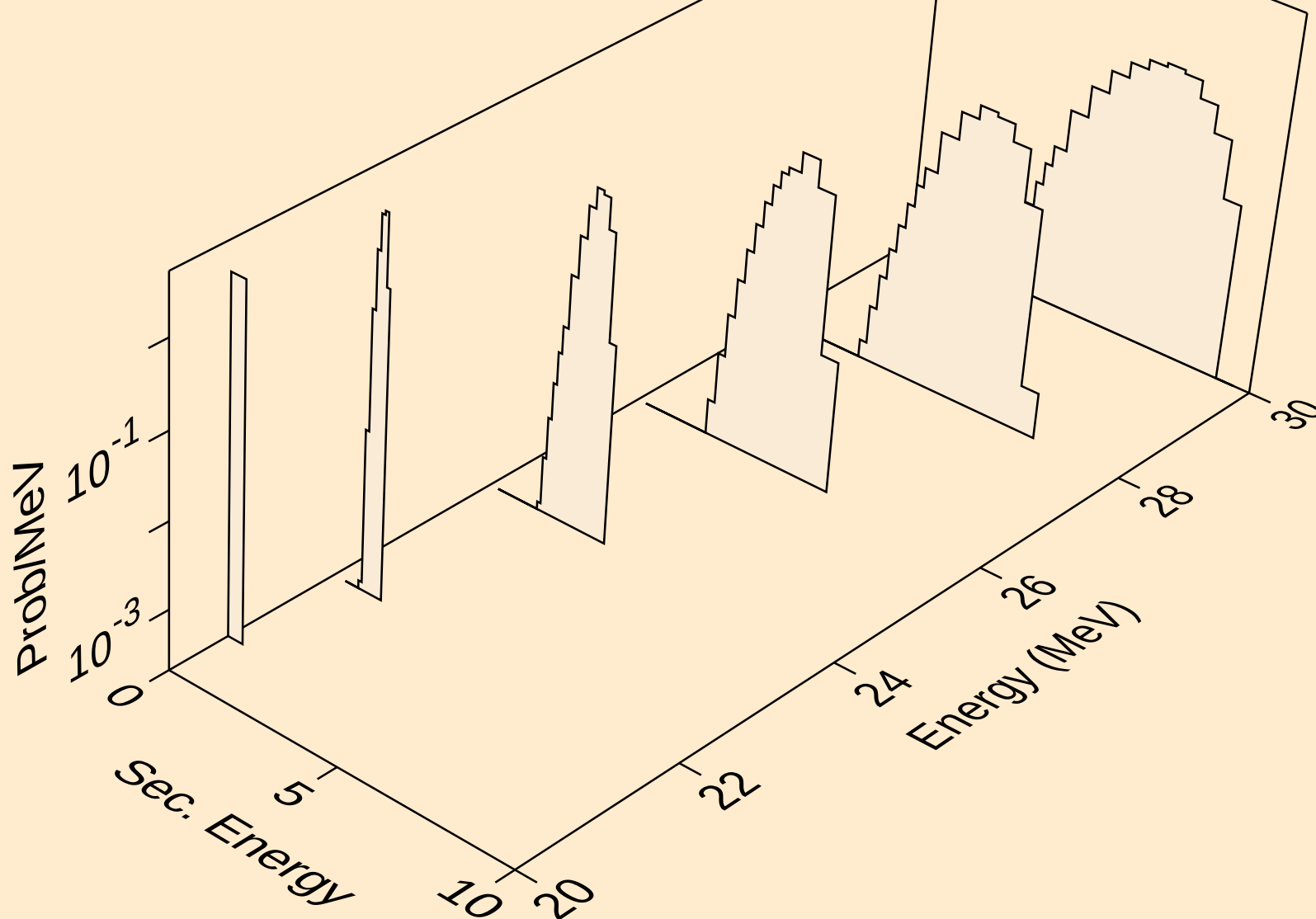
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
protons from (n,2p)



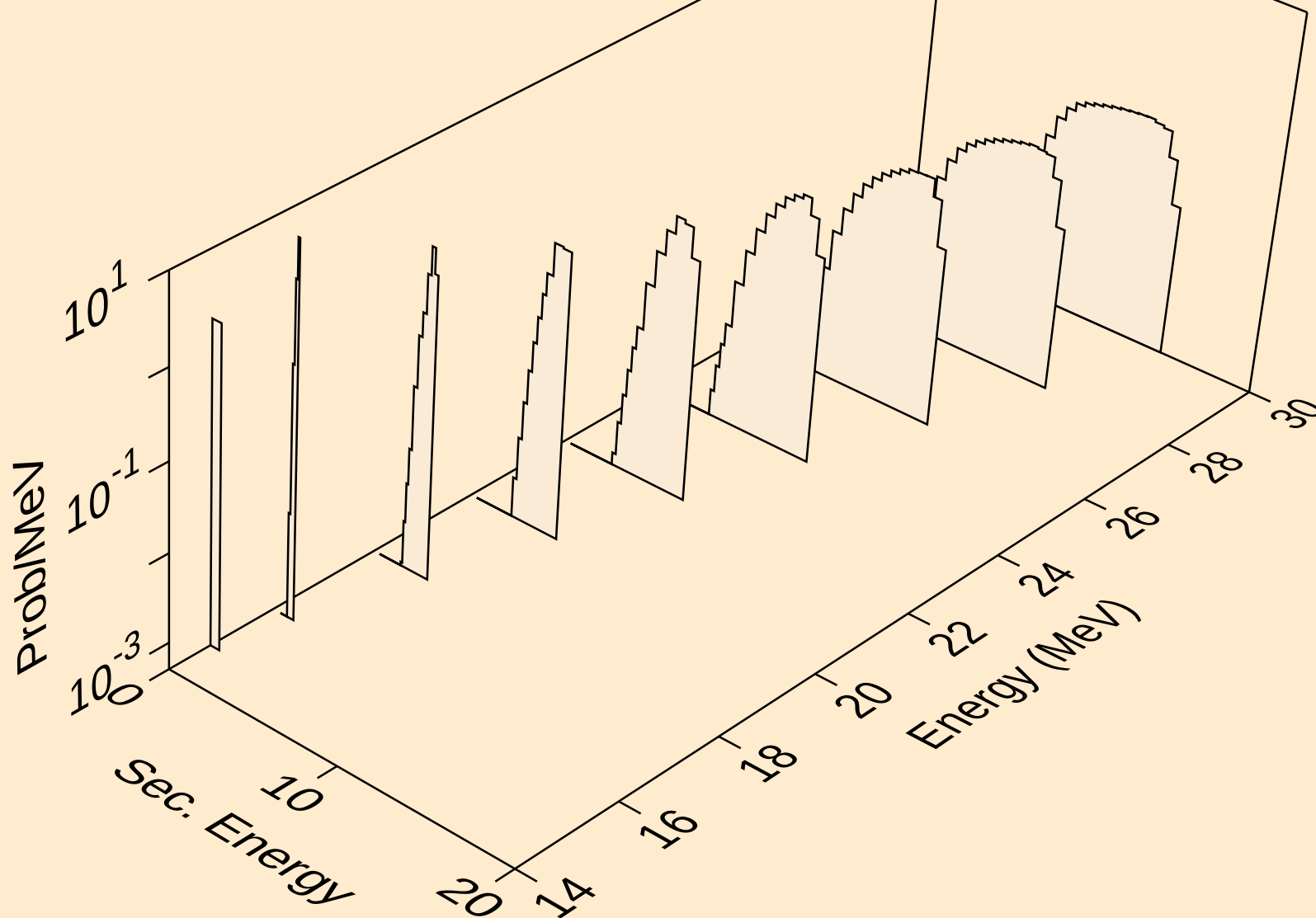
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,x)



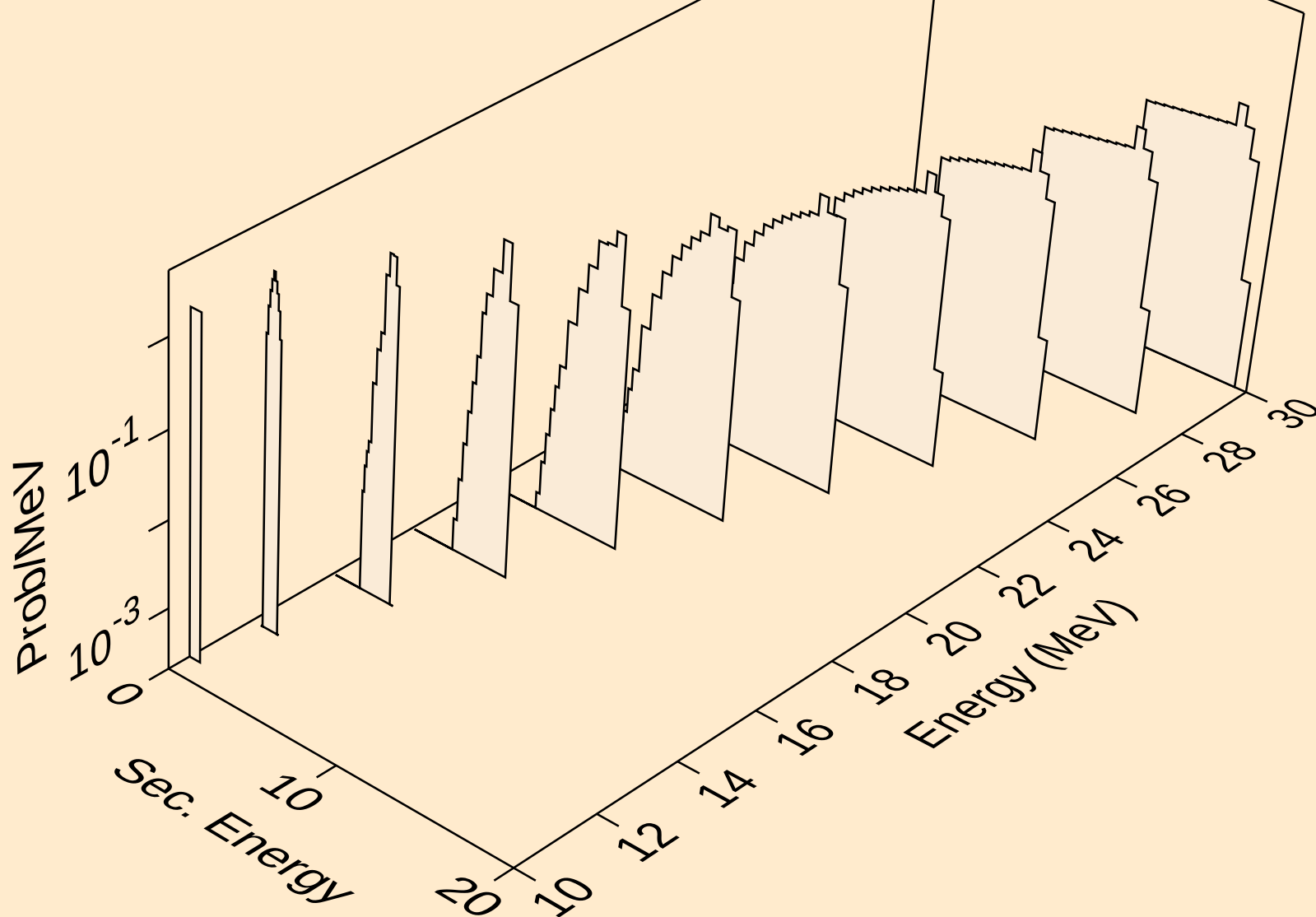
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,2nd)



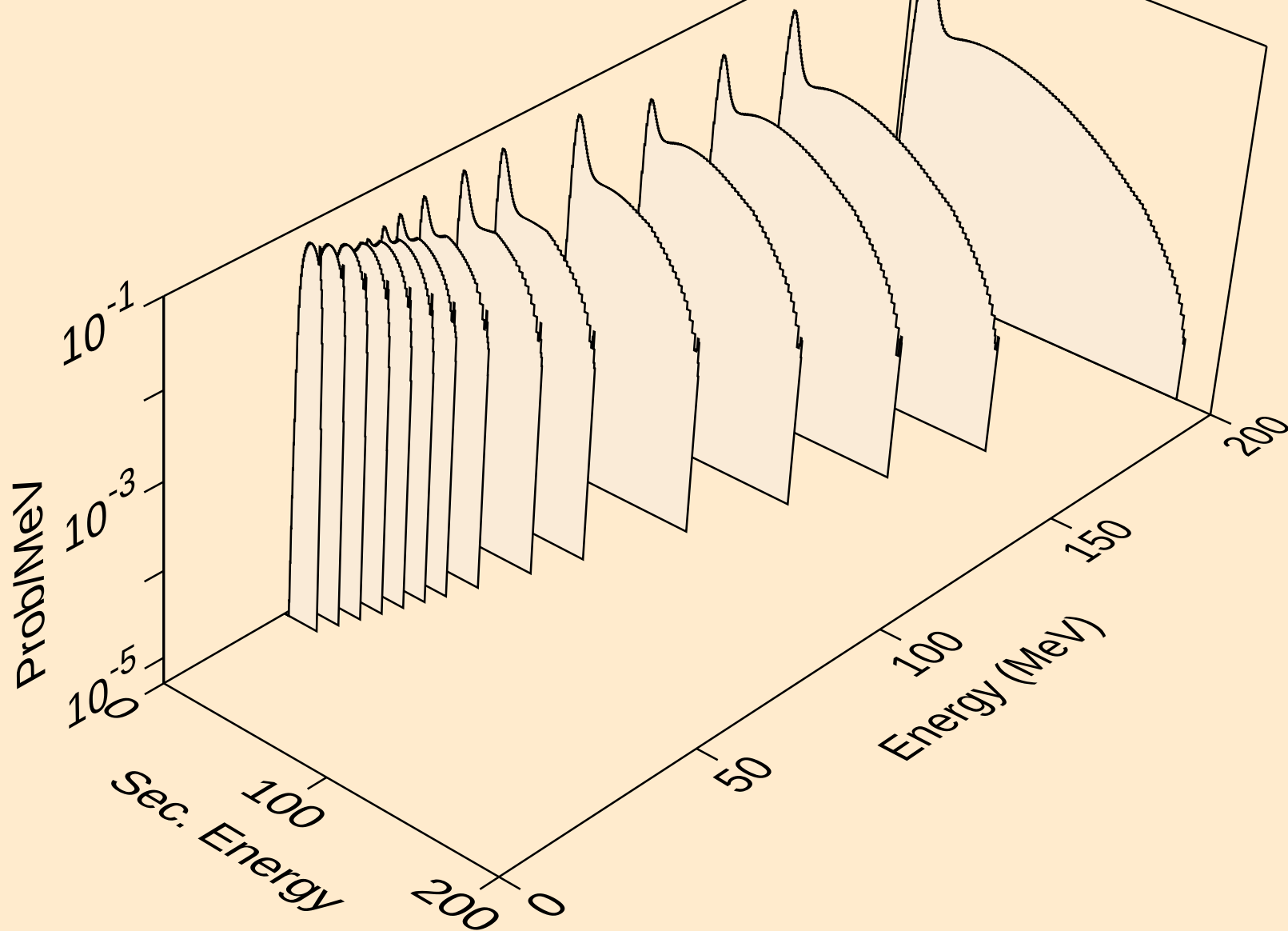
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,n\*)d



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
deuterons from (n,d)

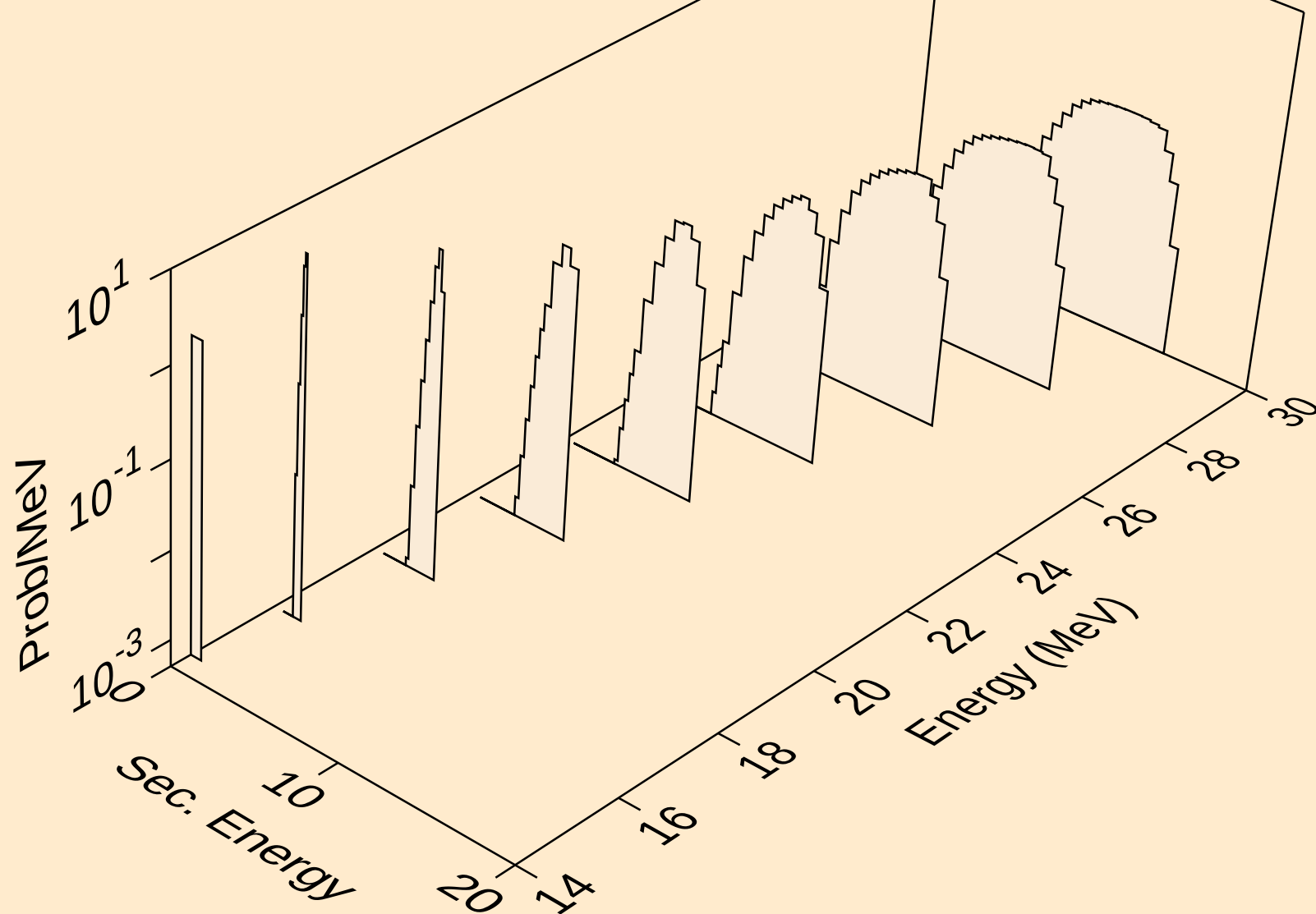


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,x)

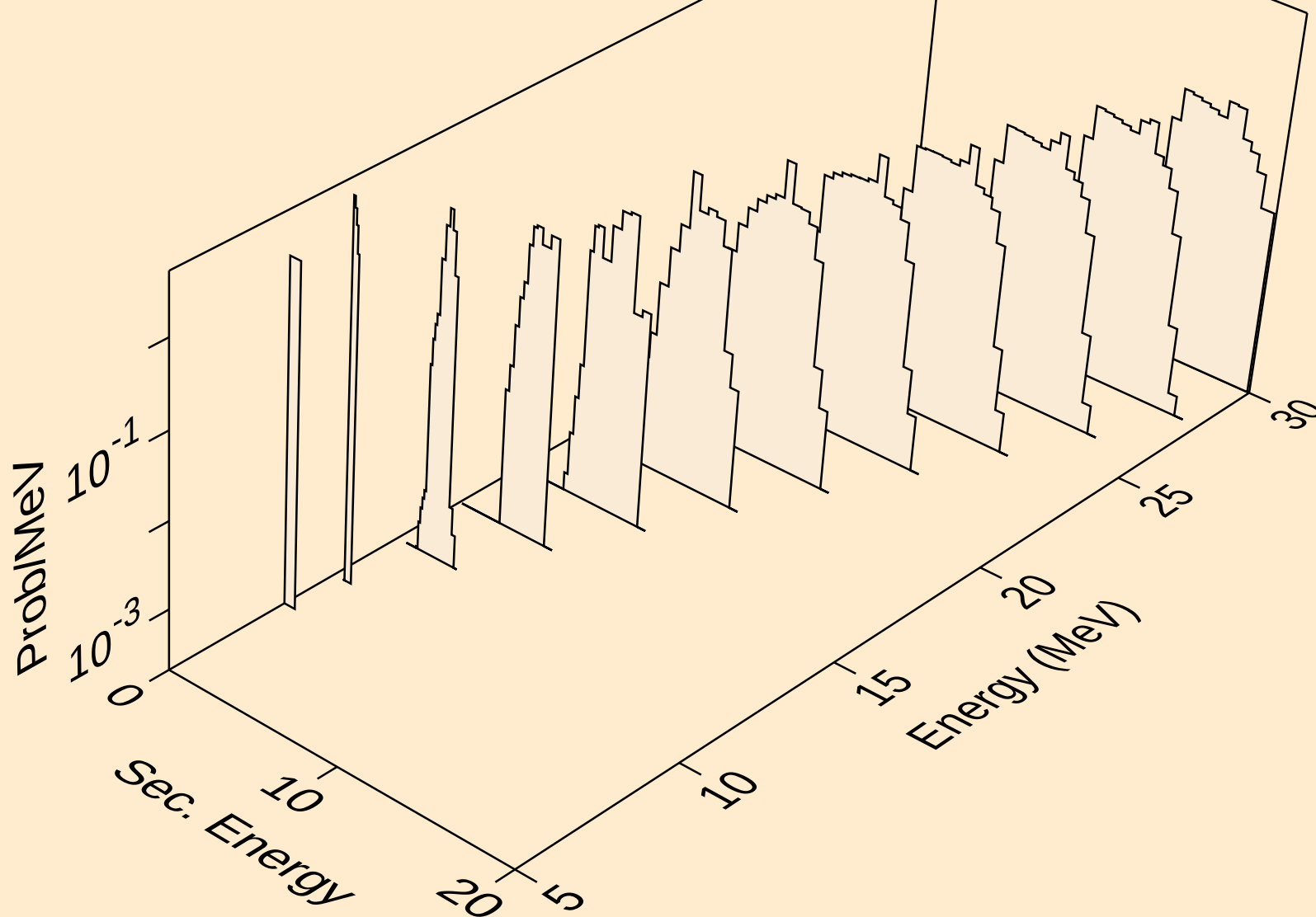




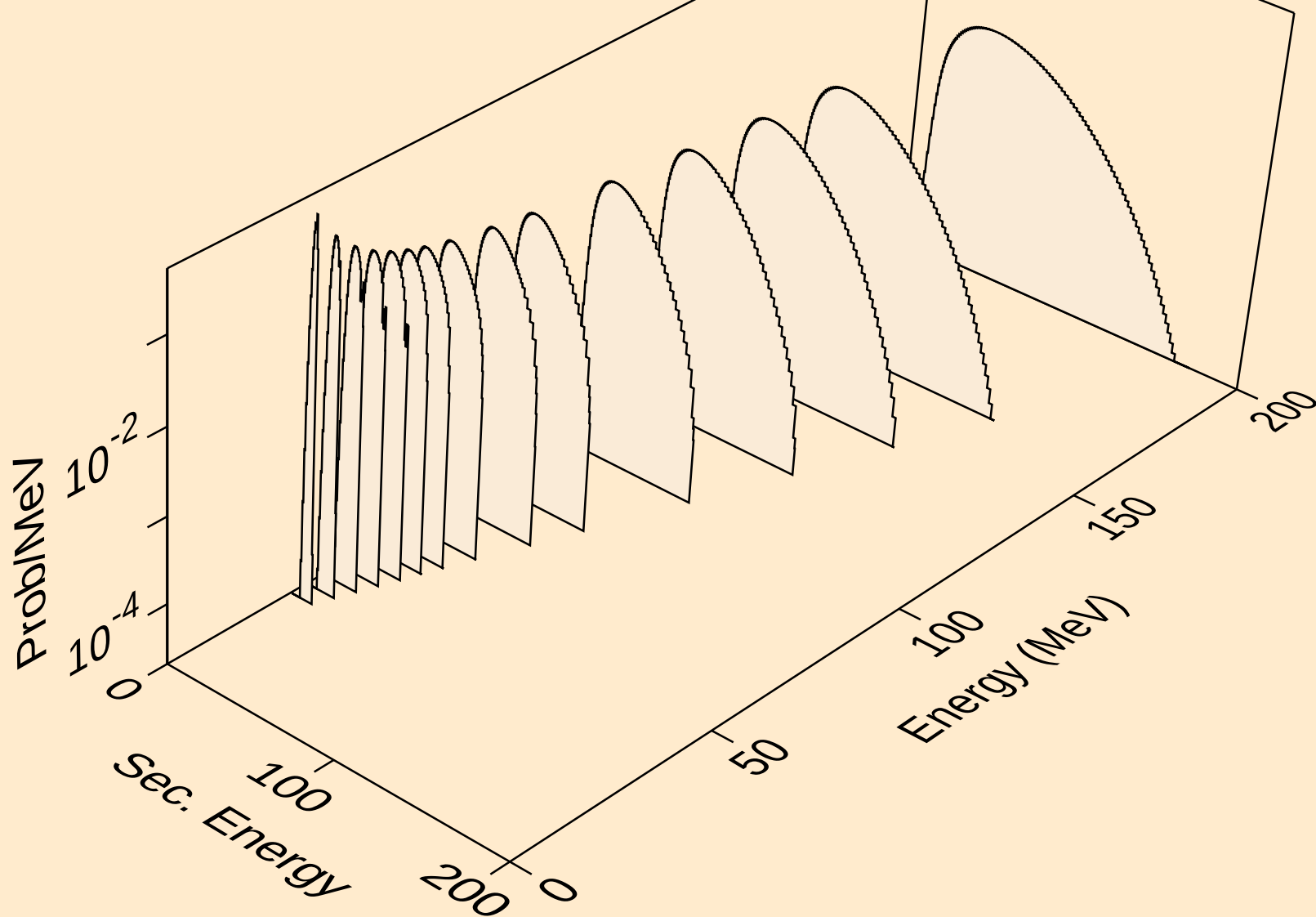
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
tritons from (n,n\*)t



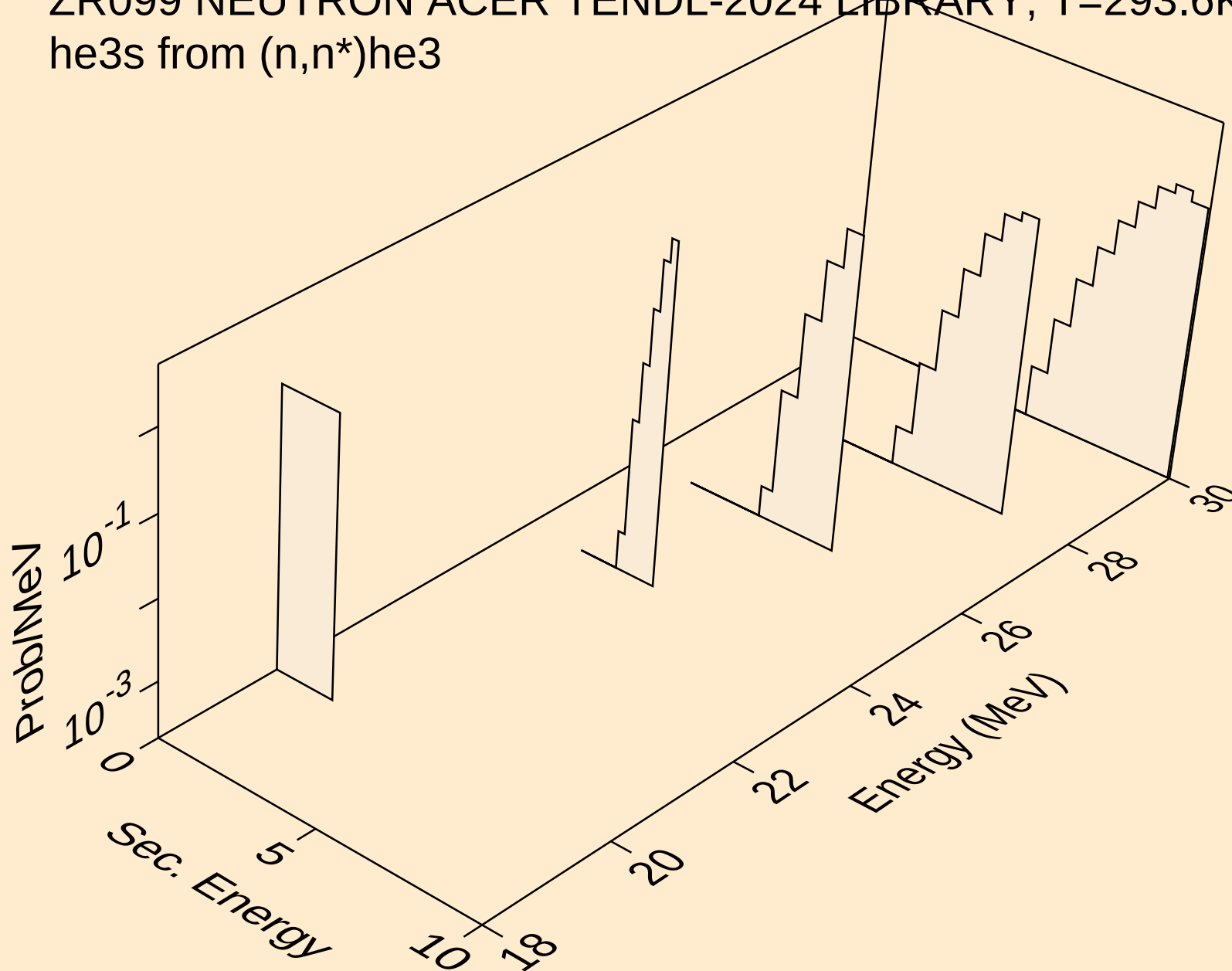
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tritons from (n,t)



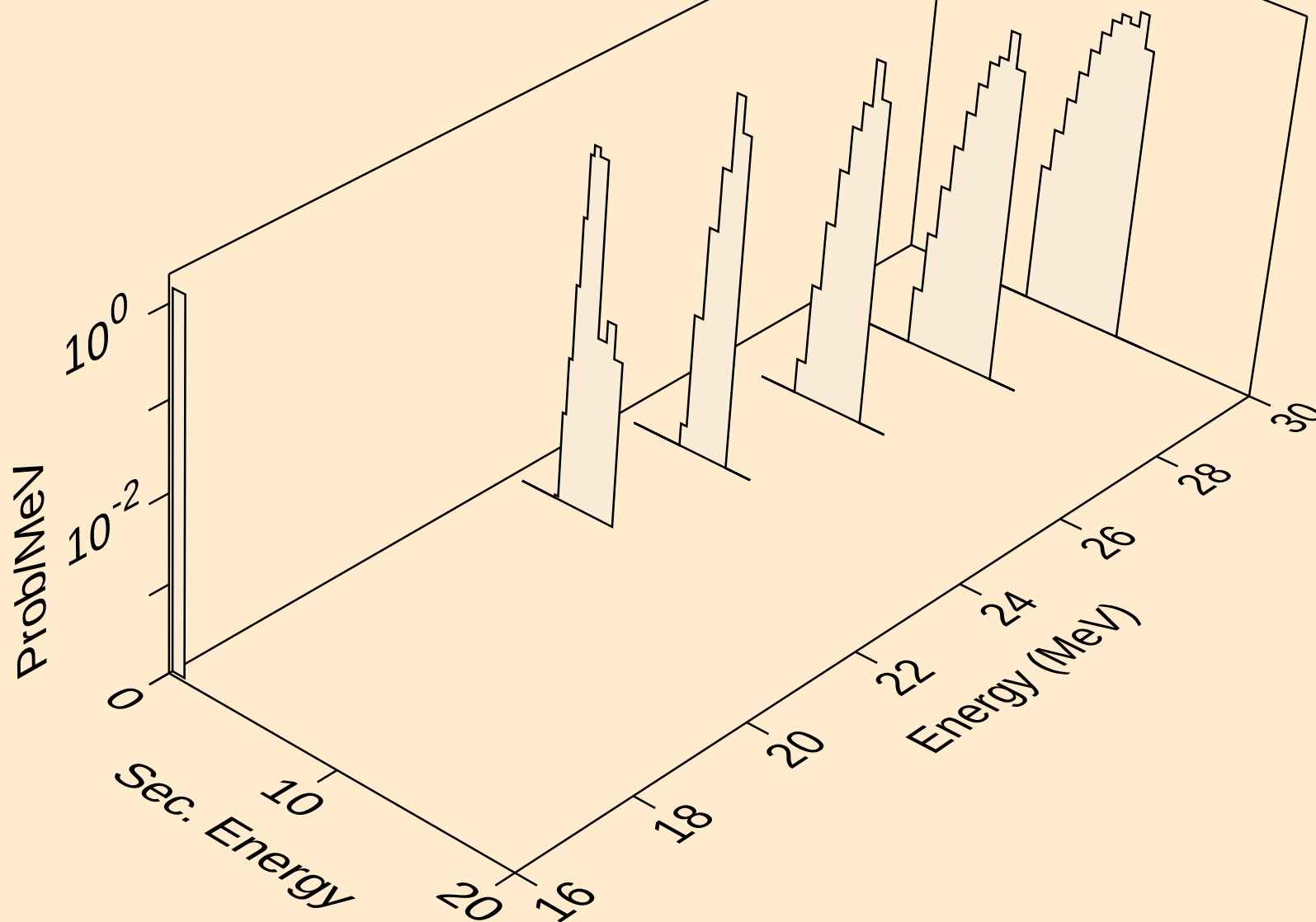
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,x)



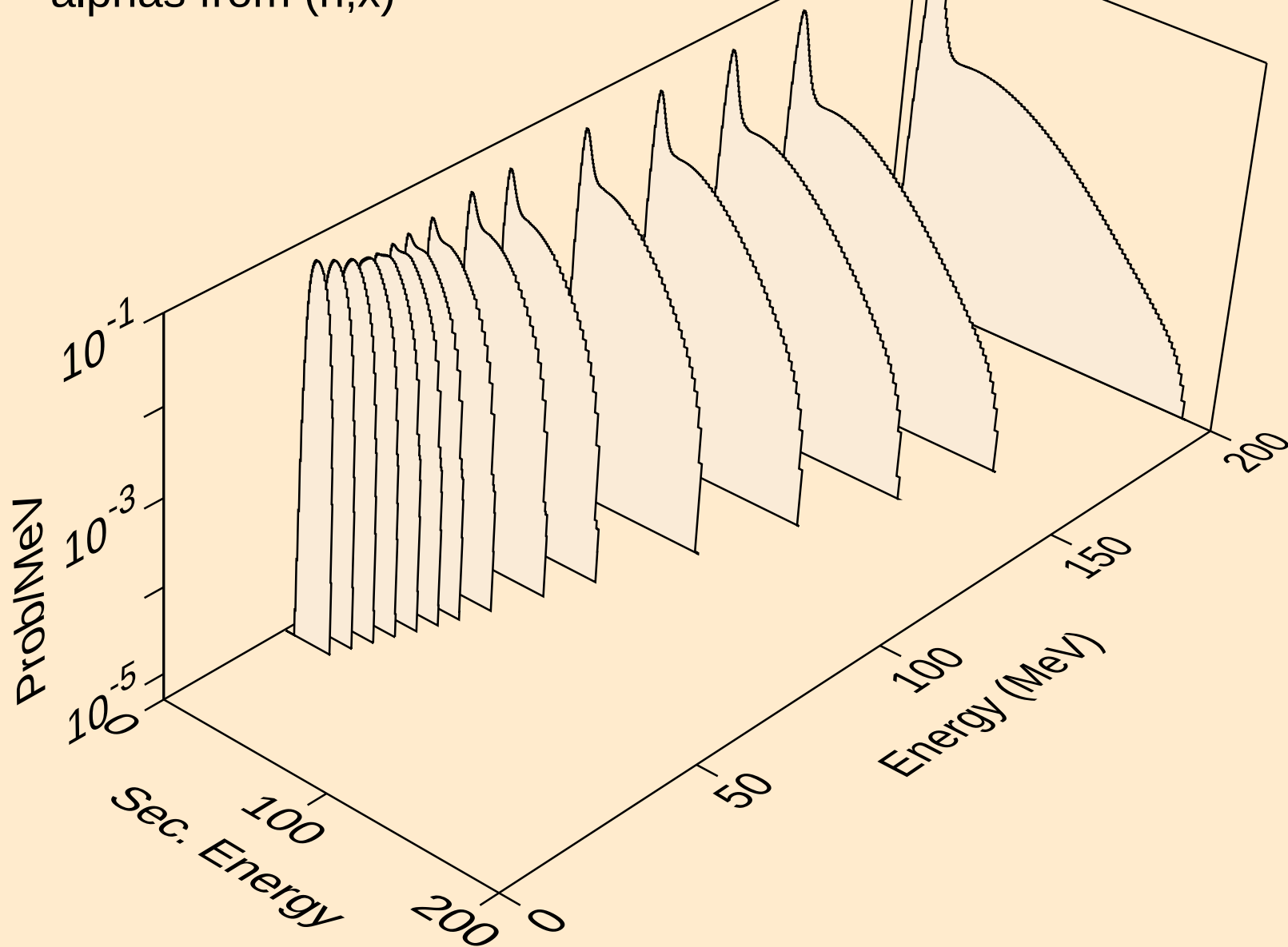
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,n\*)he3



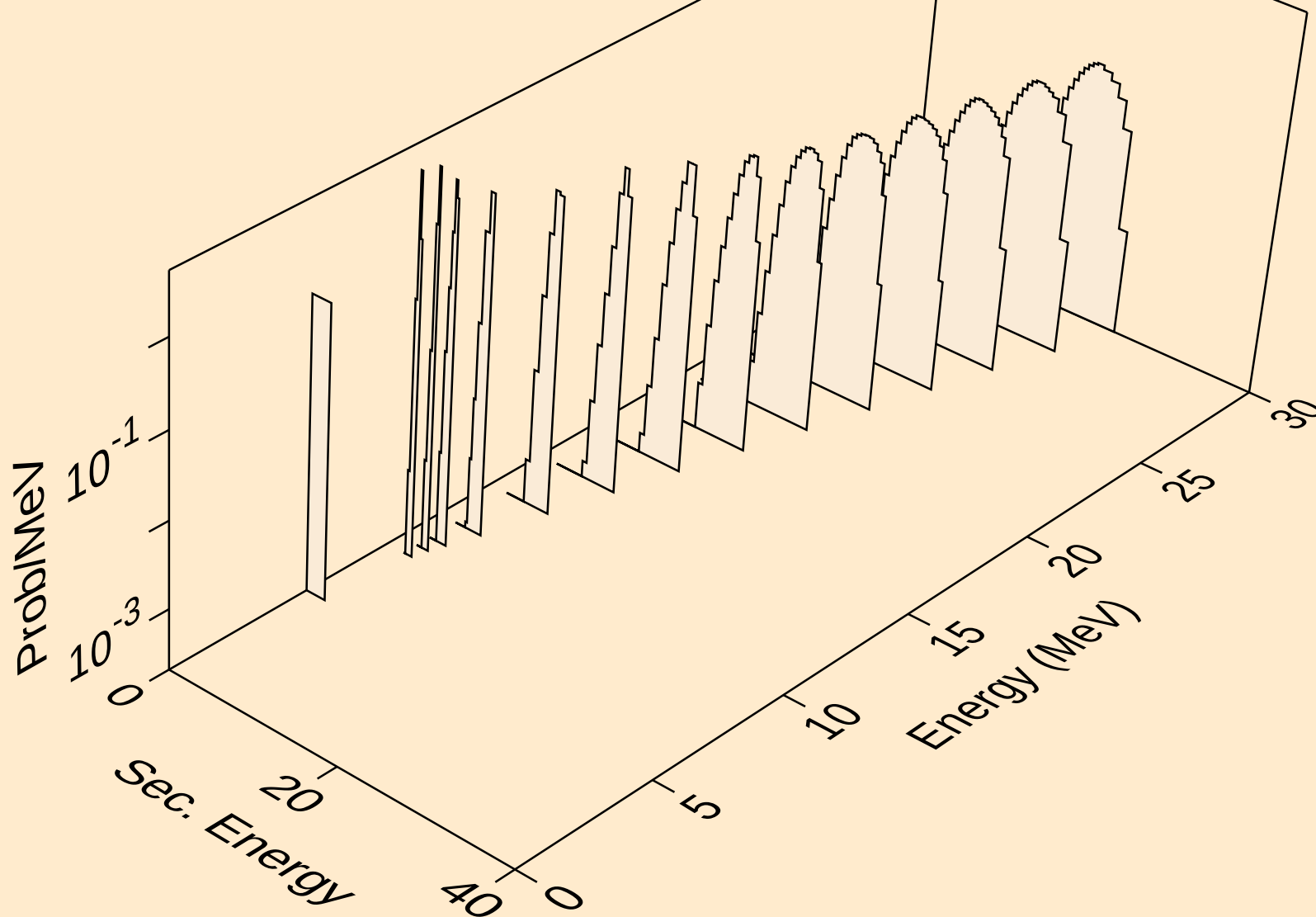
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
he3s from (n,he3)



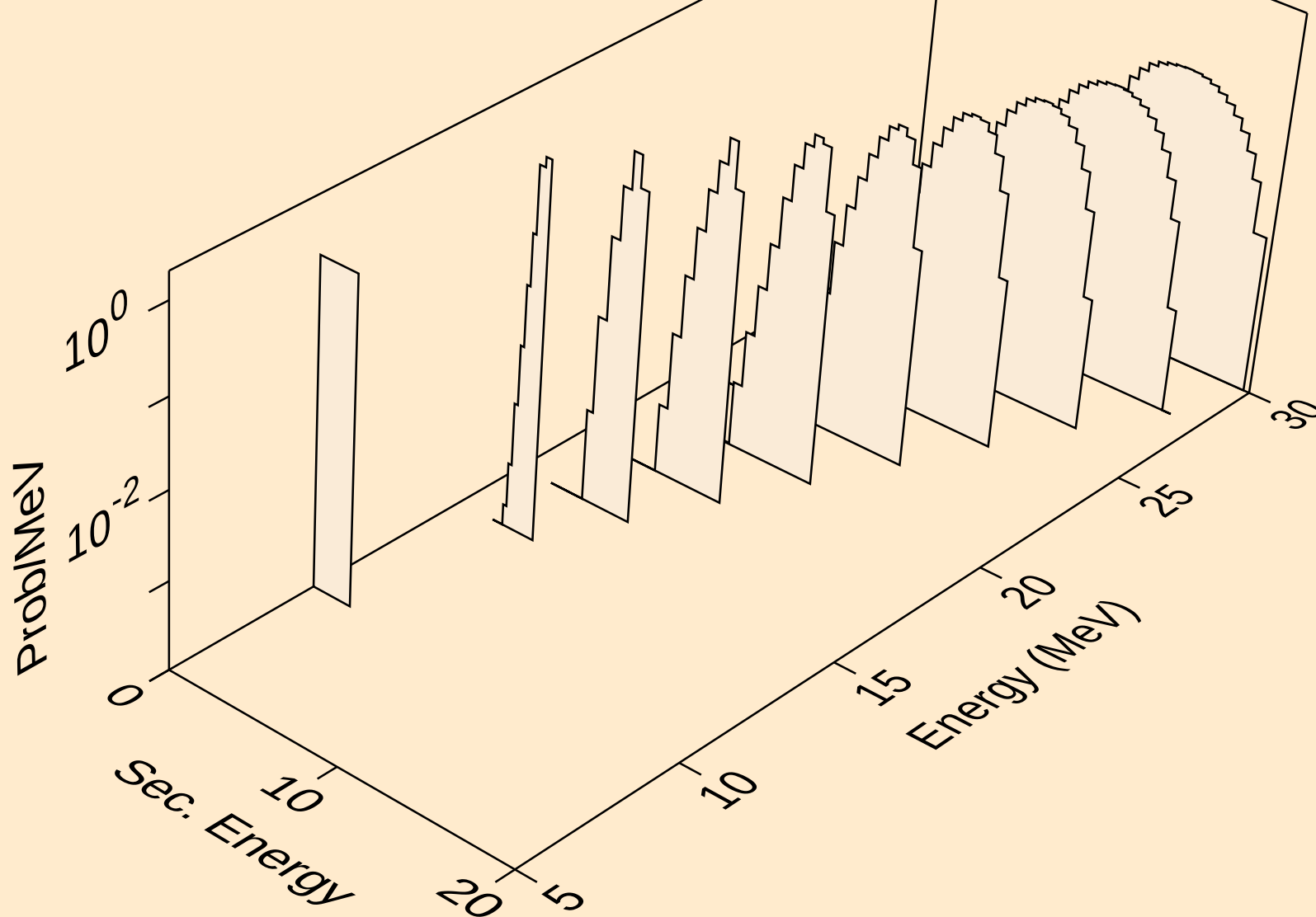
ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,x)



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,n\*)a

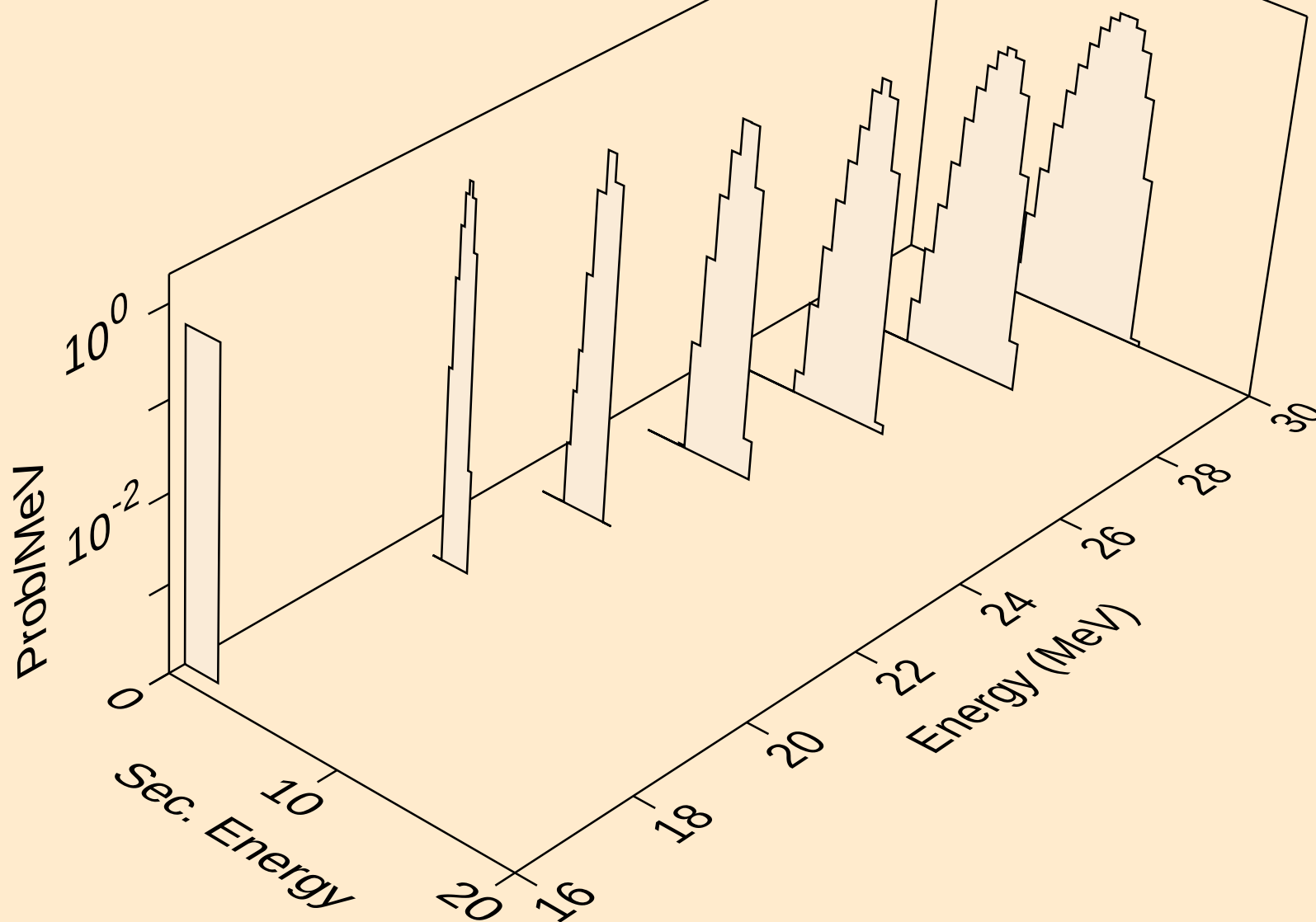


ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,2n)a





ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,3n)a



ZR099 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,a)

