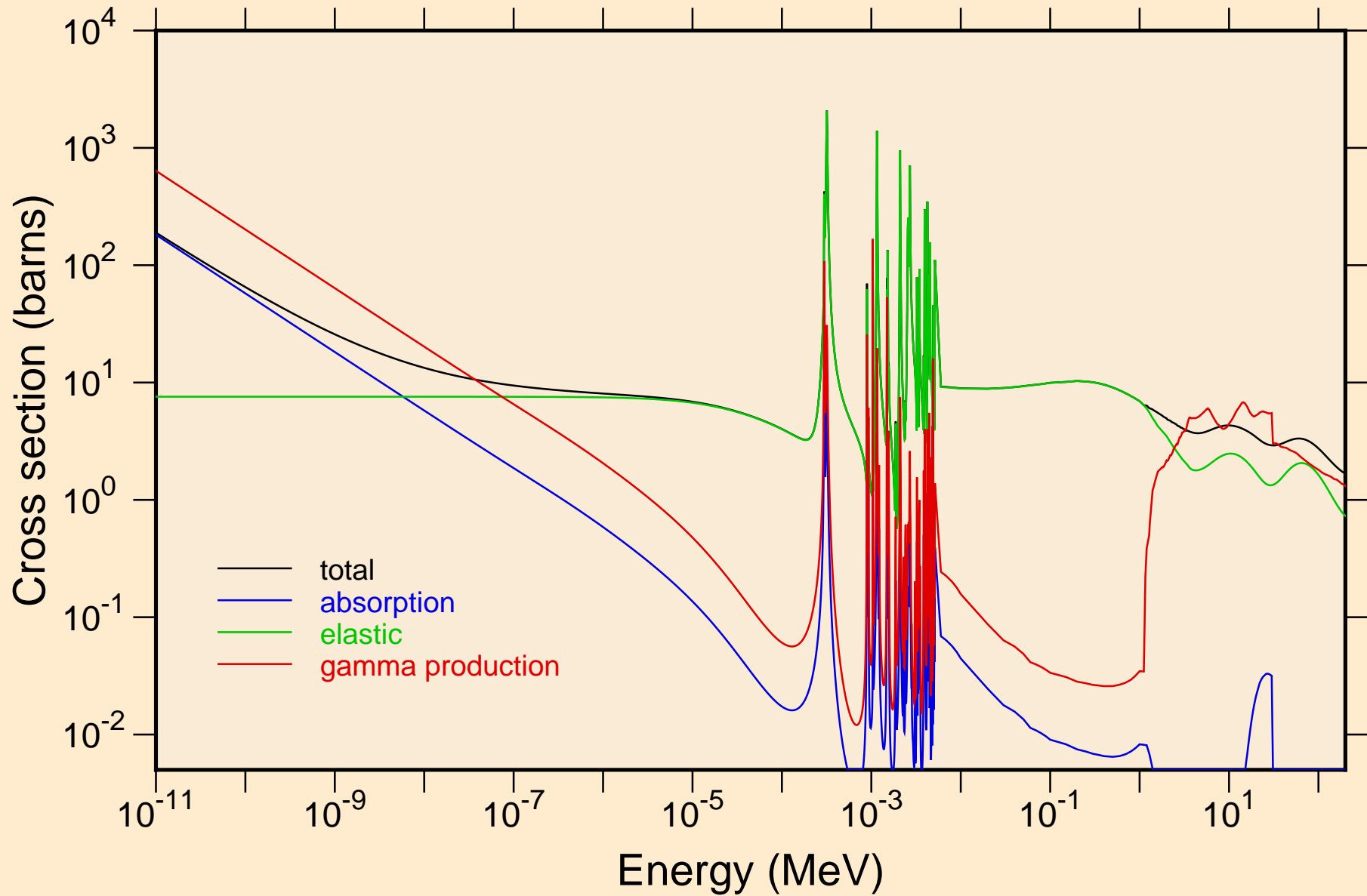
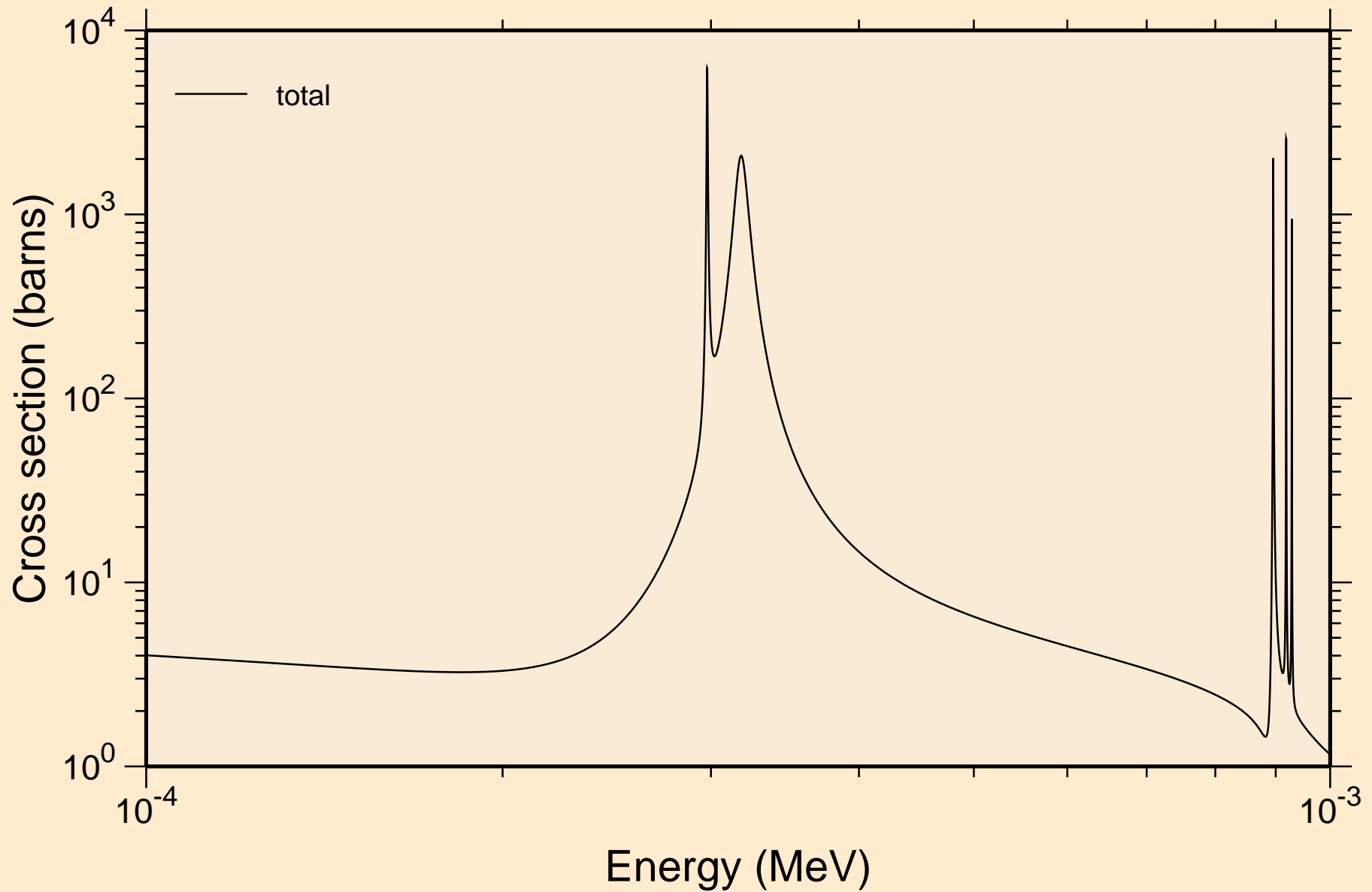


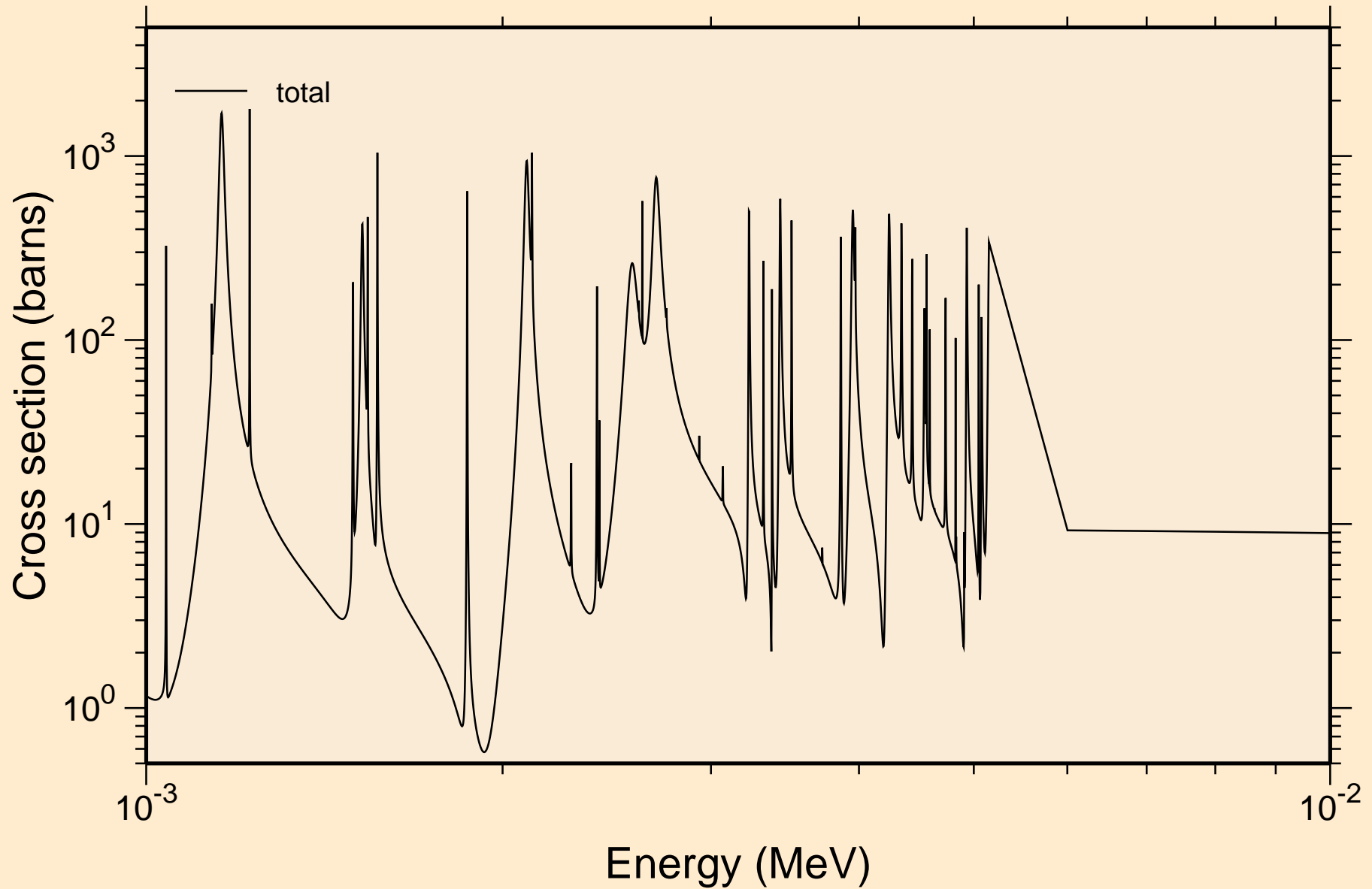
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Principal cross sections



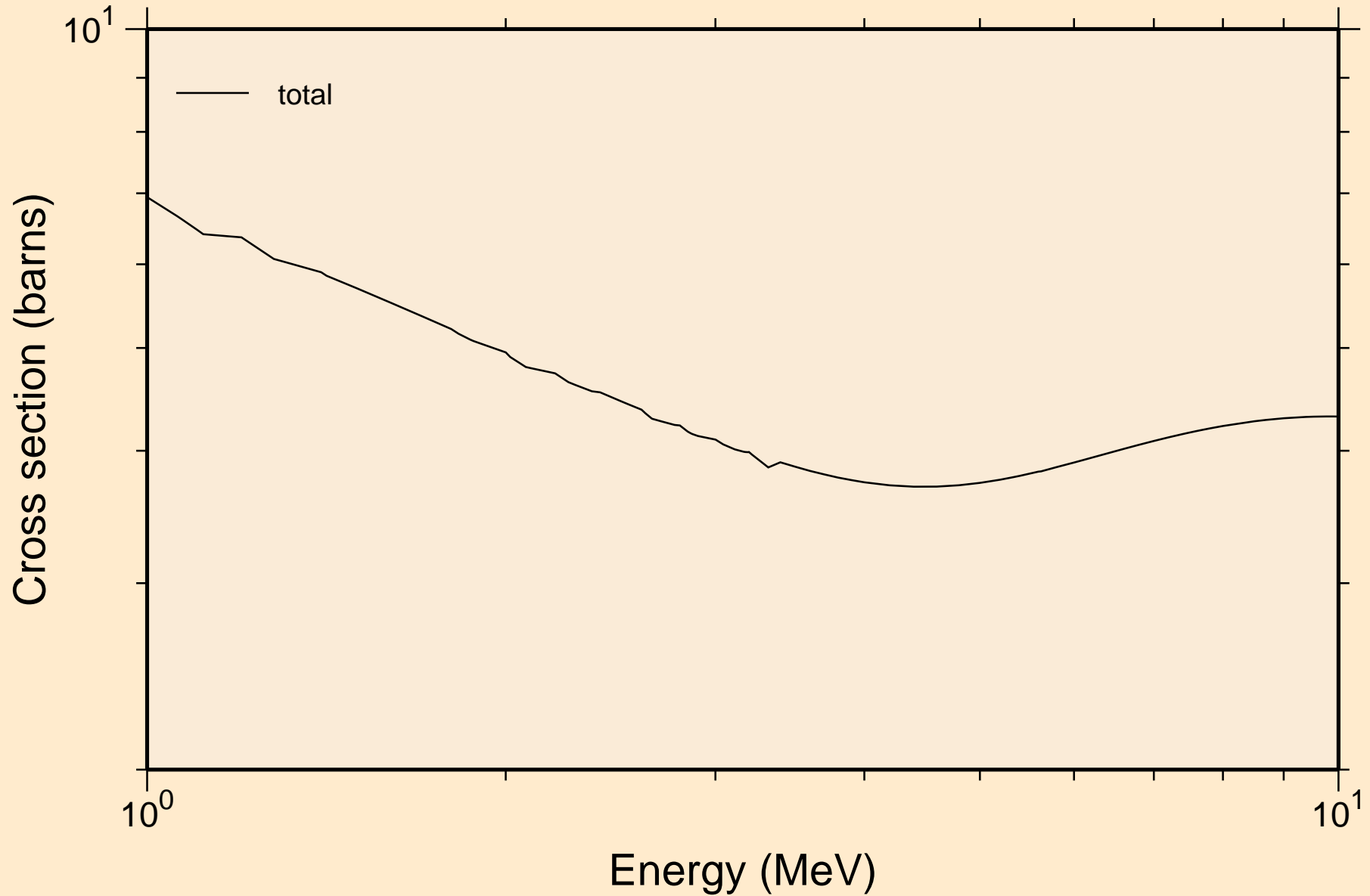
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



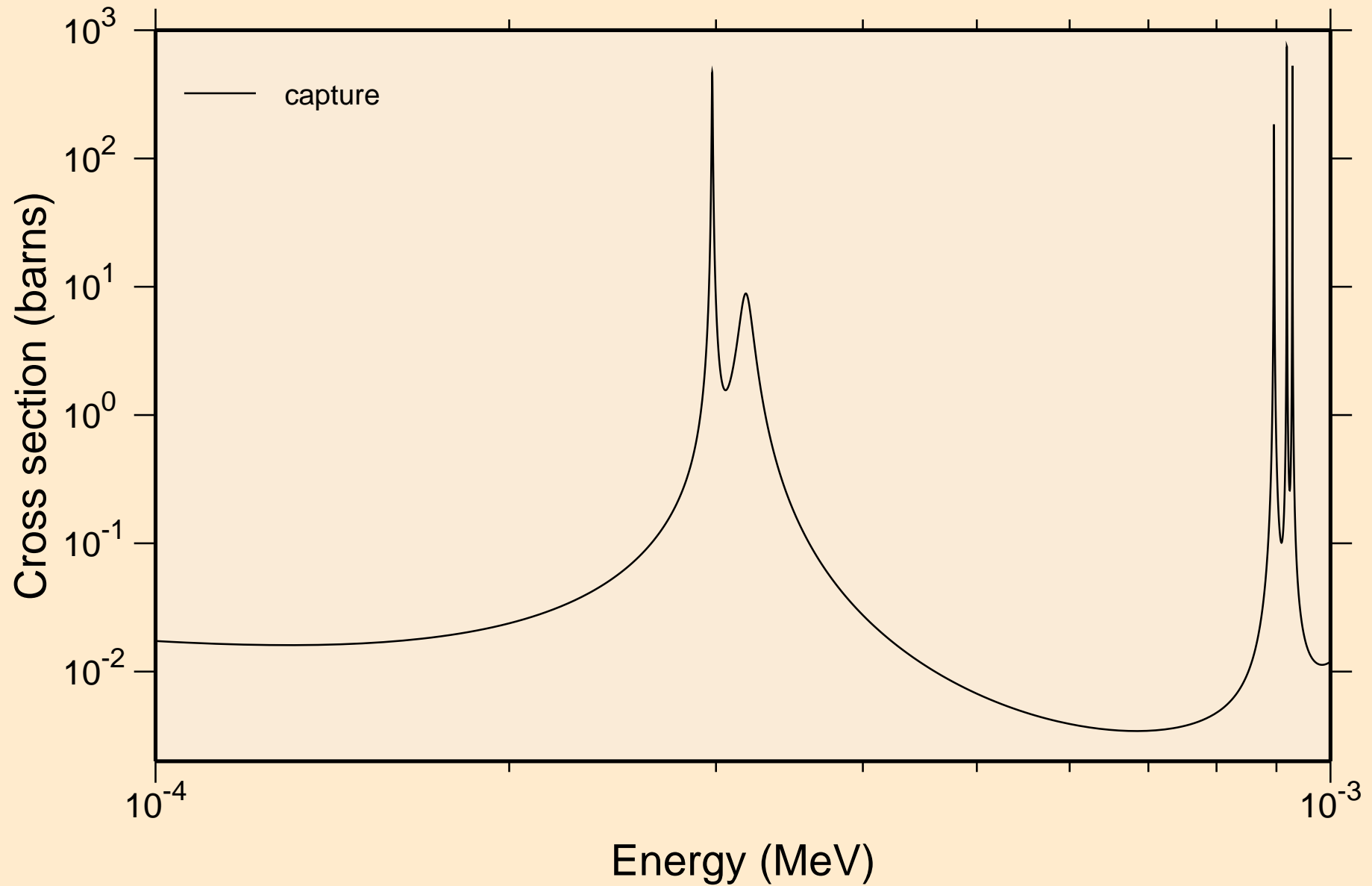
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



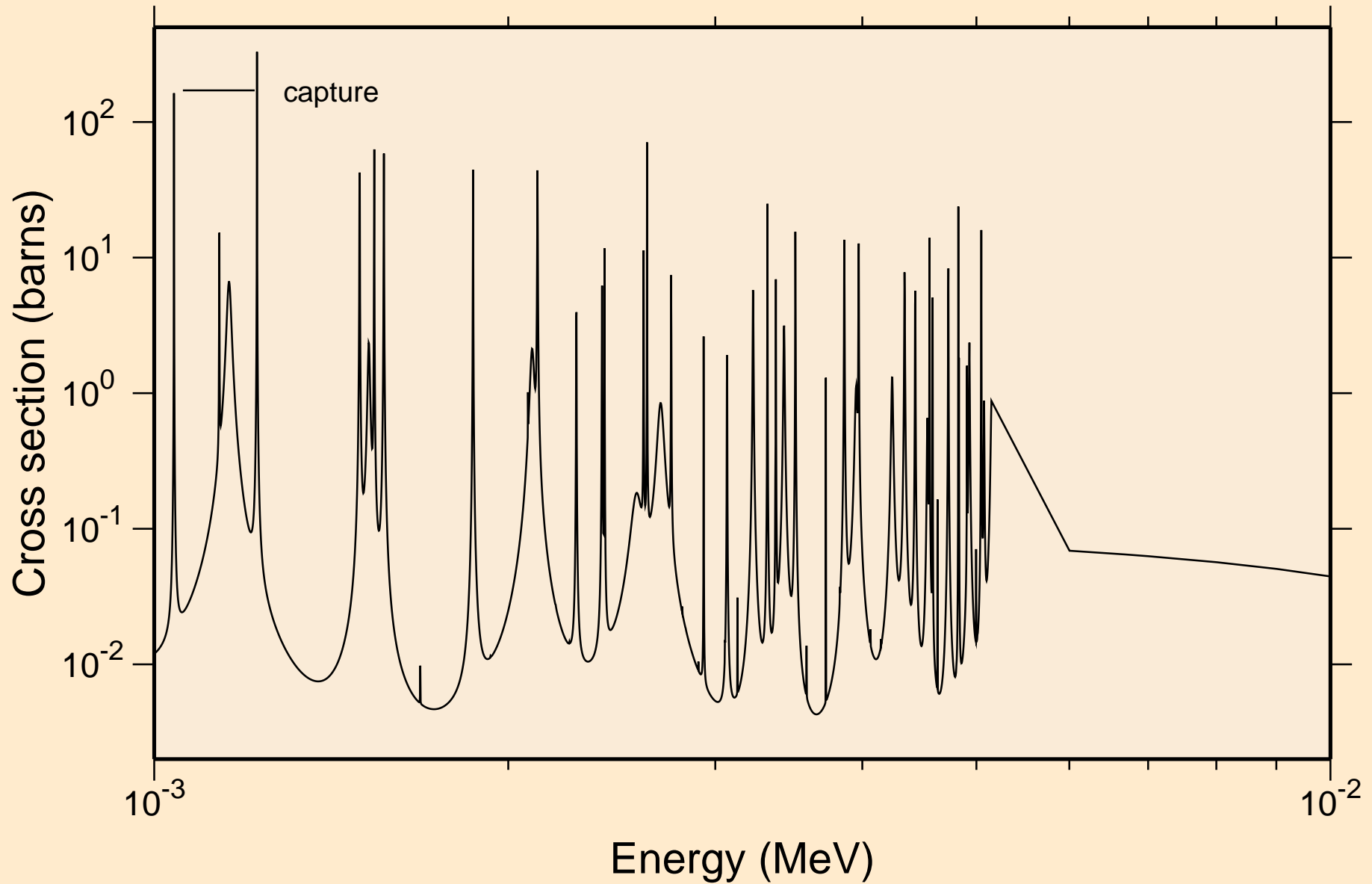
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resonance total cross section



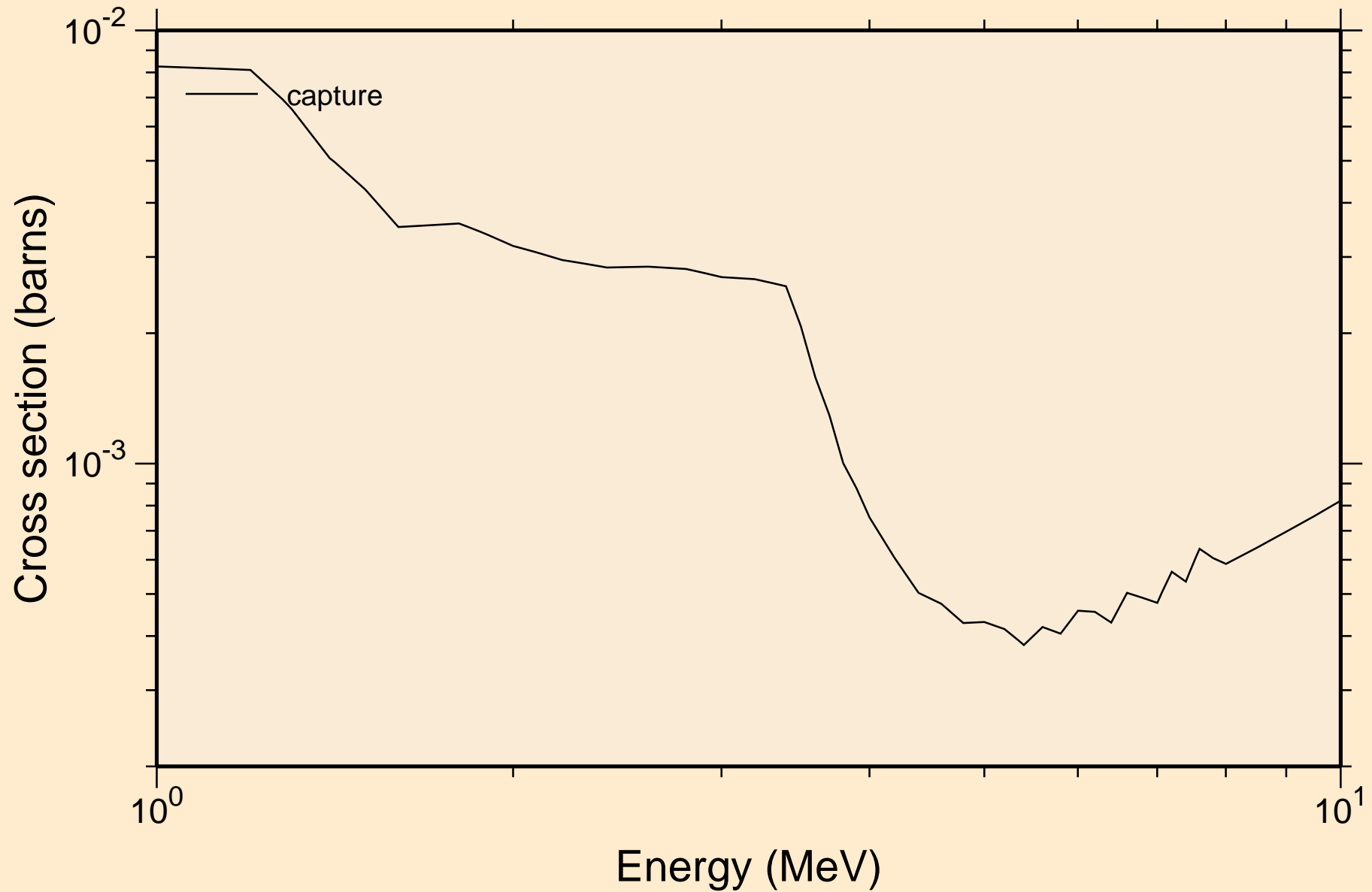
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

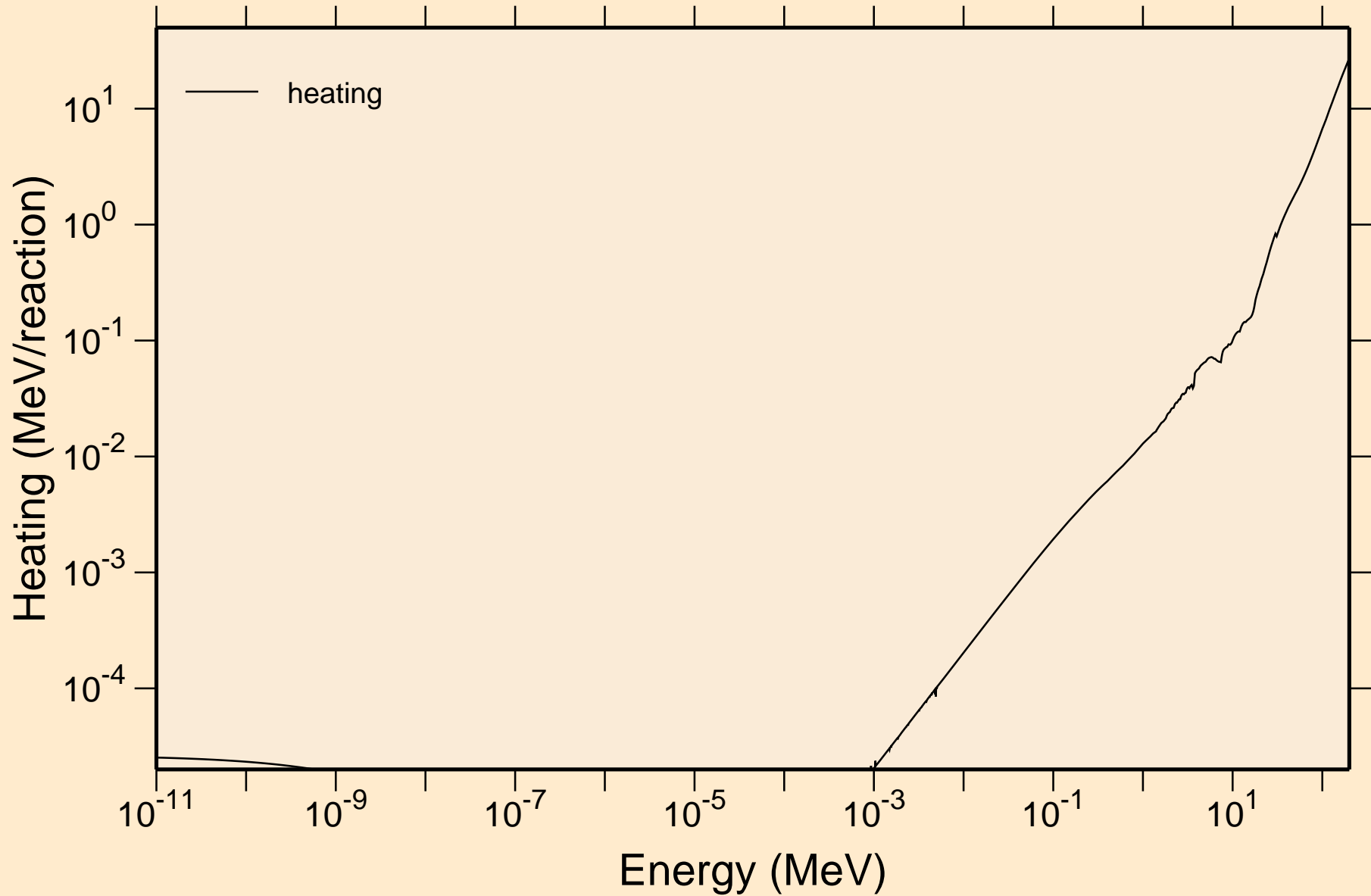


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



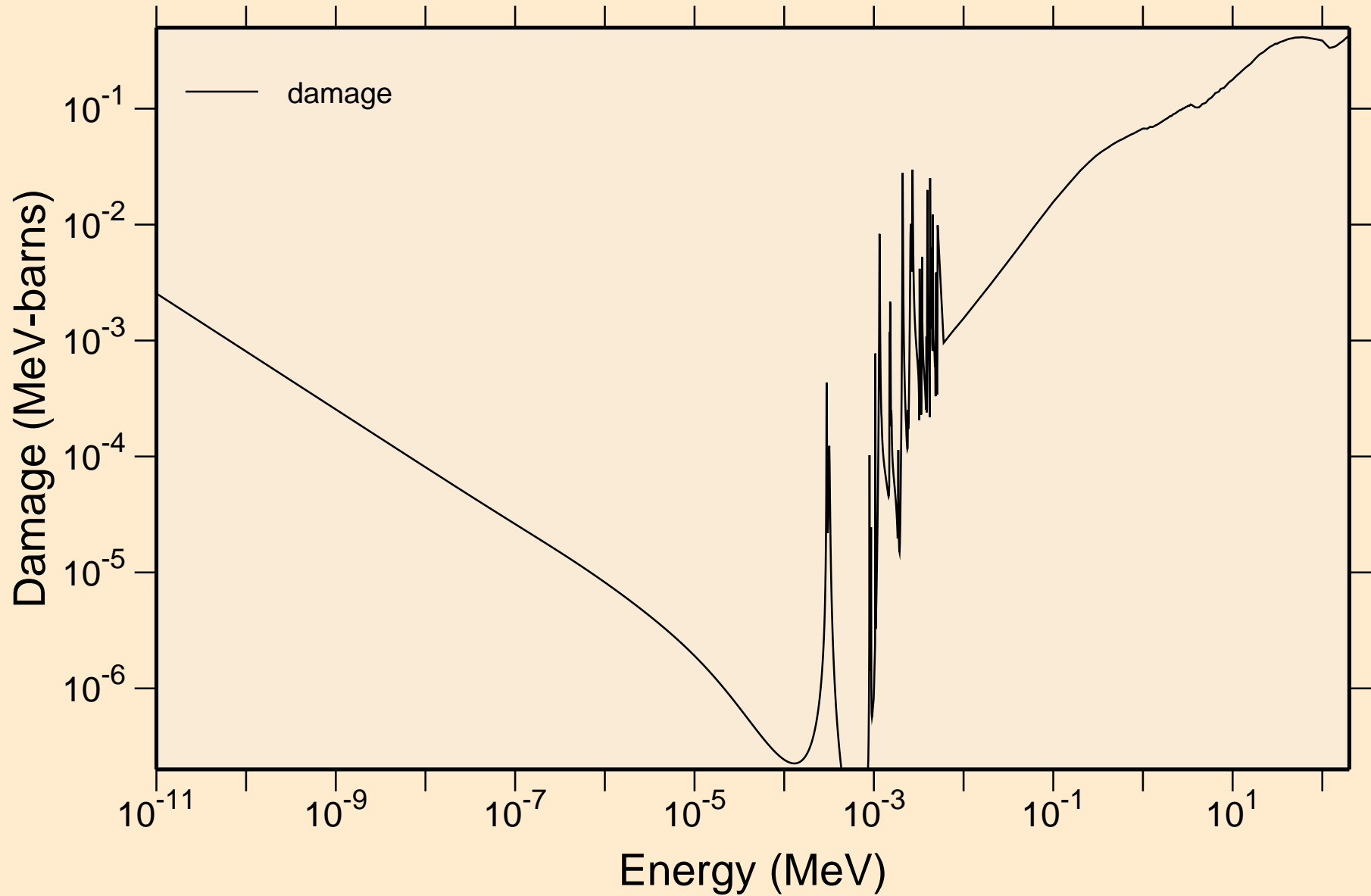
# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

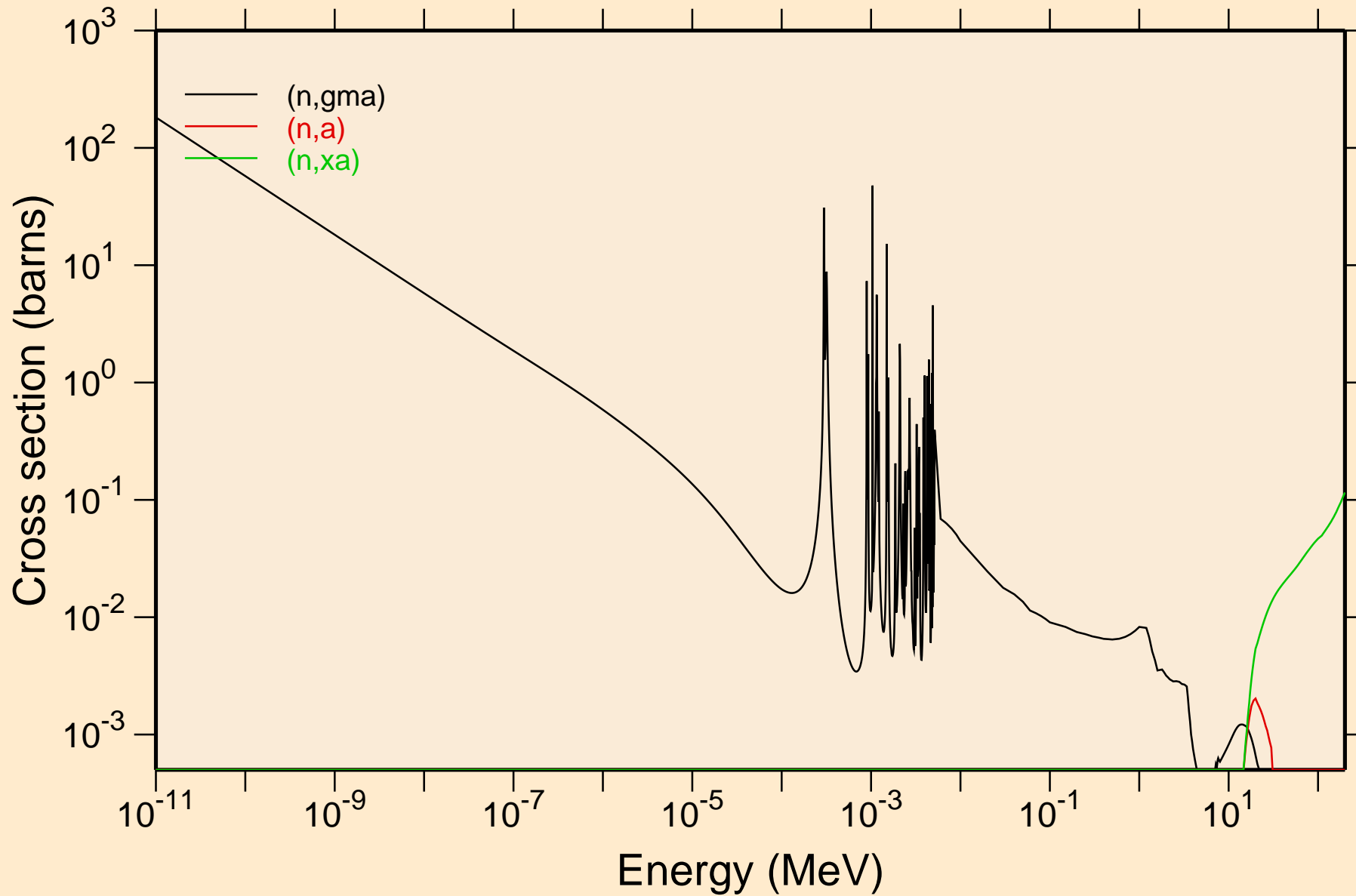




ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

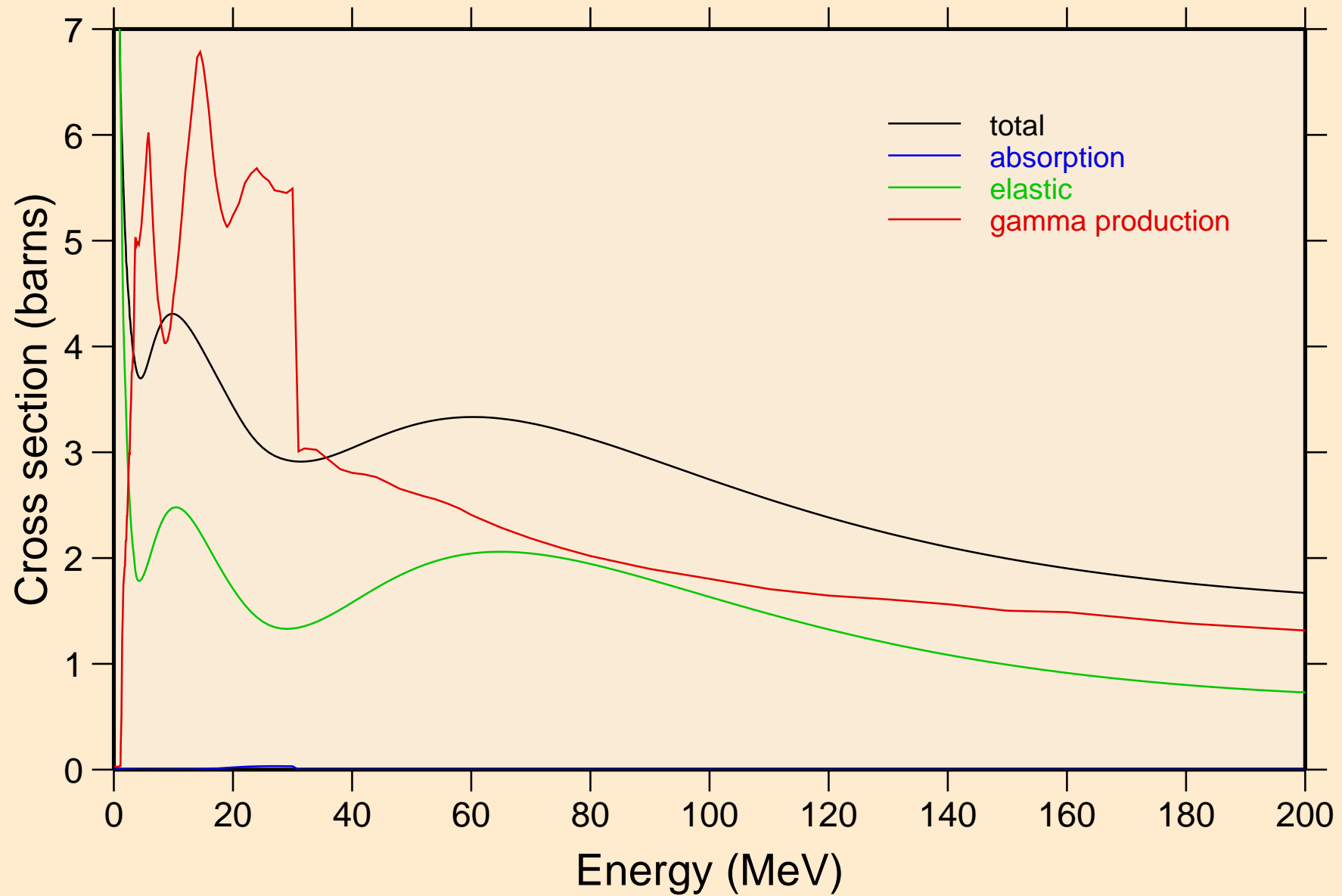


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



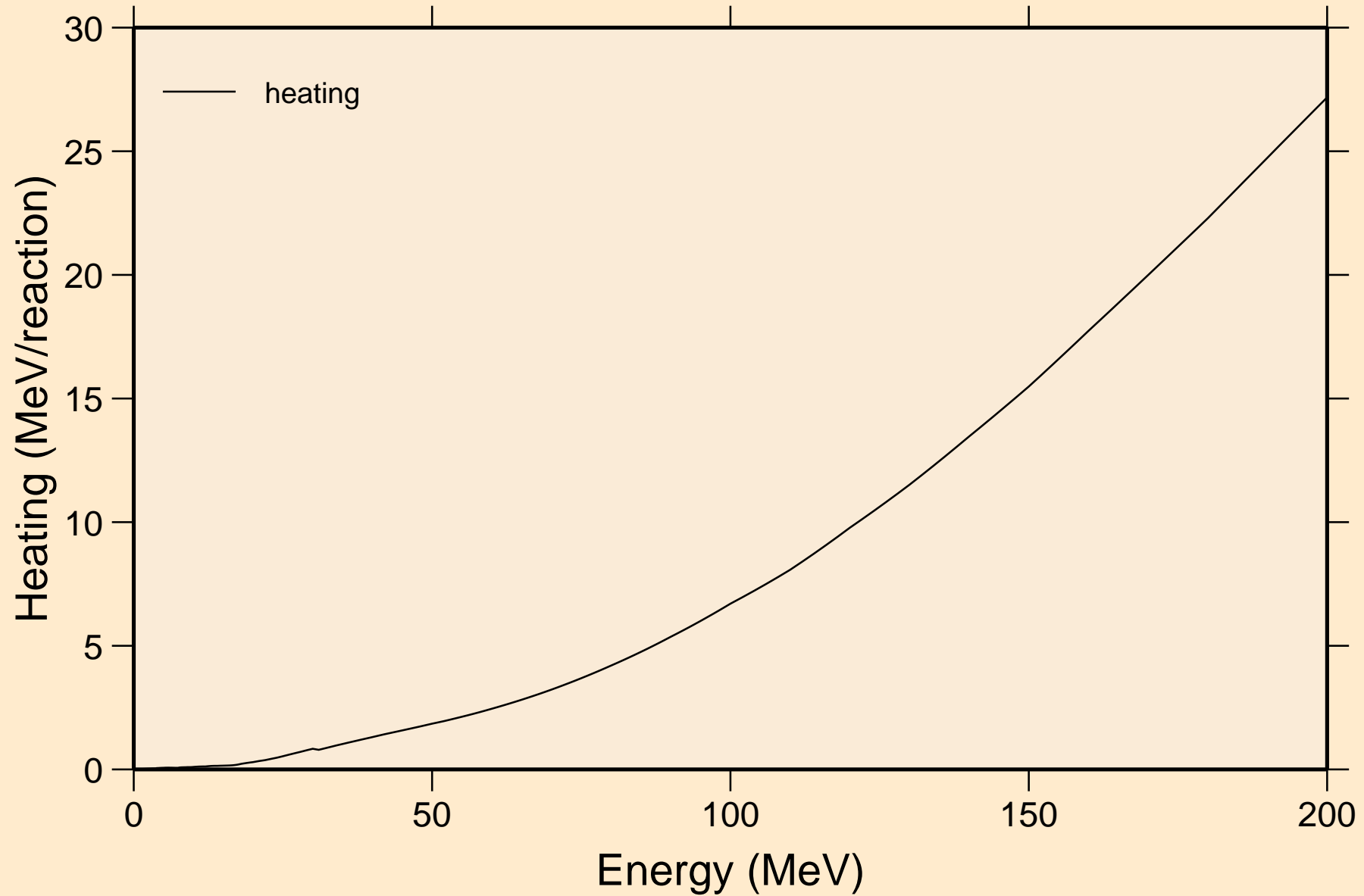
# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



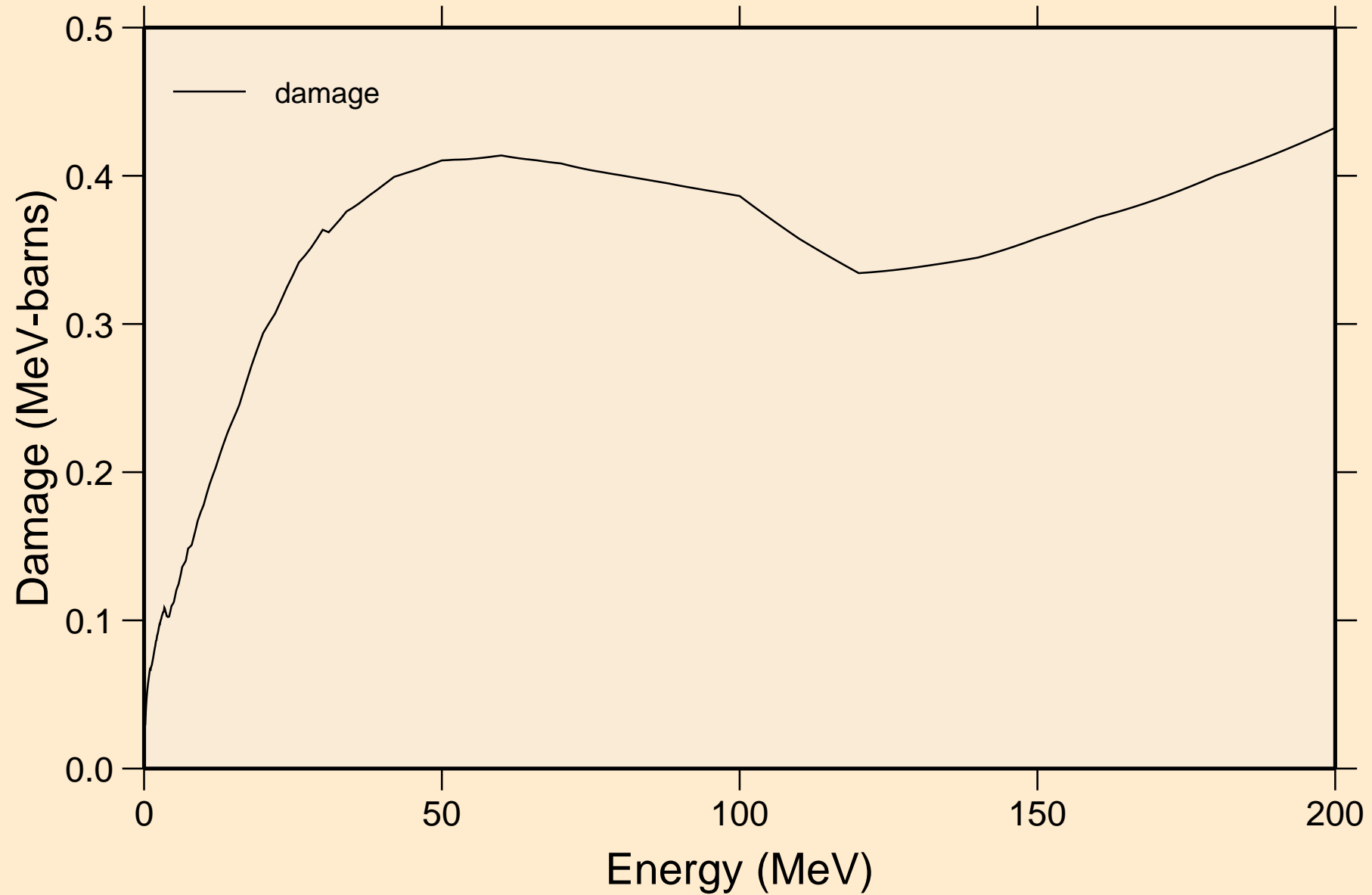
# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

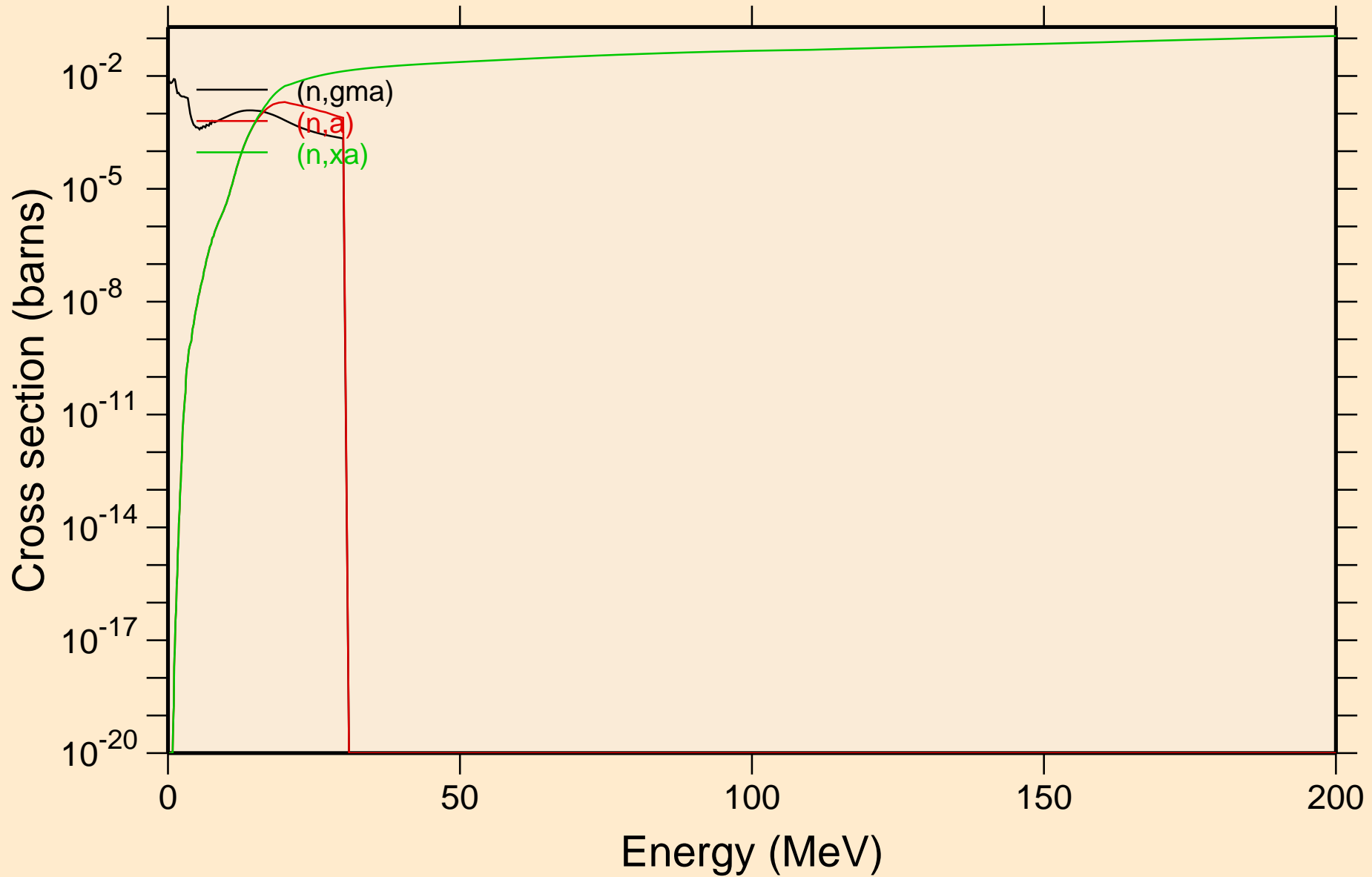


# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

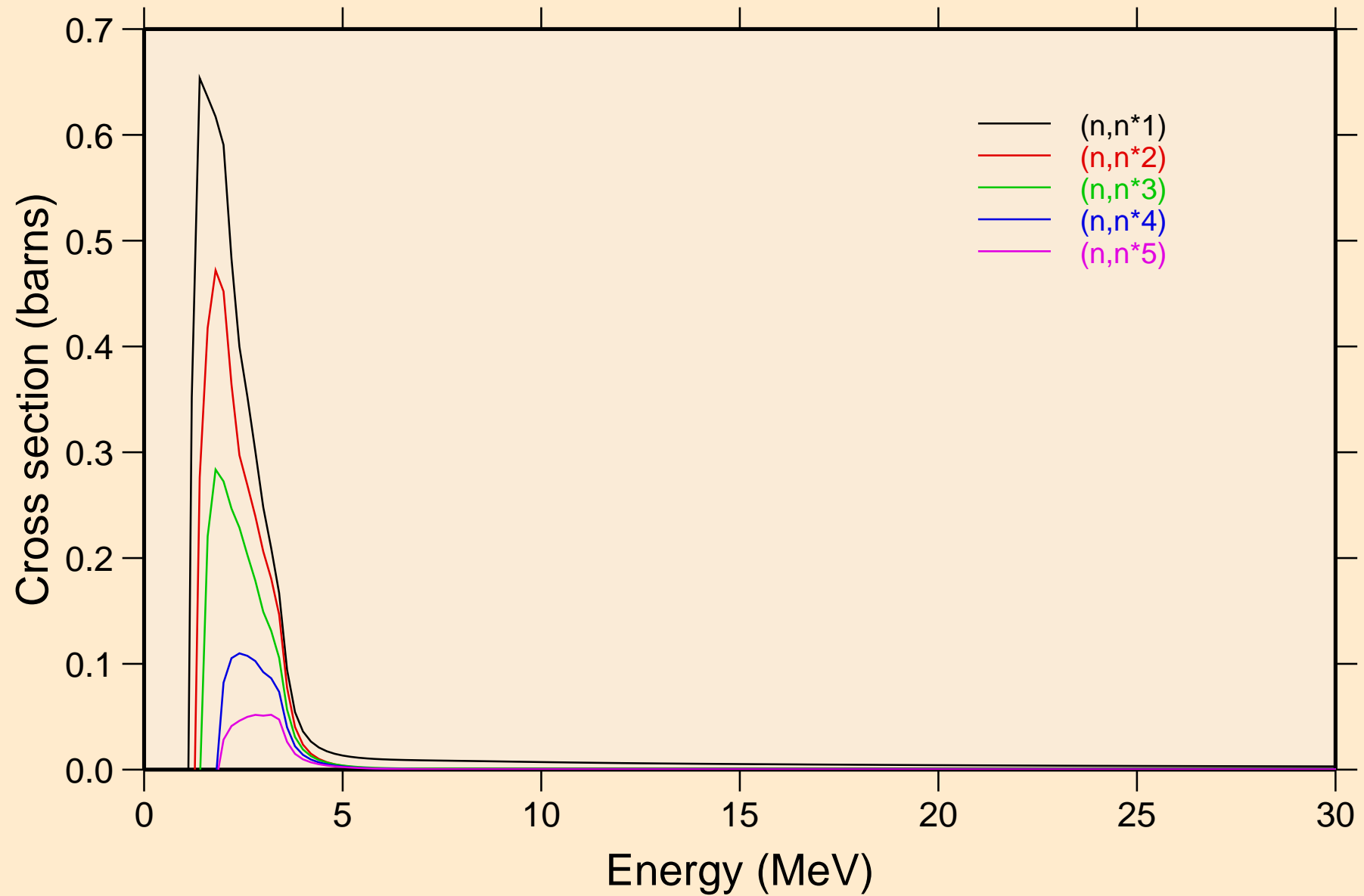
## Damage



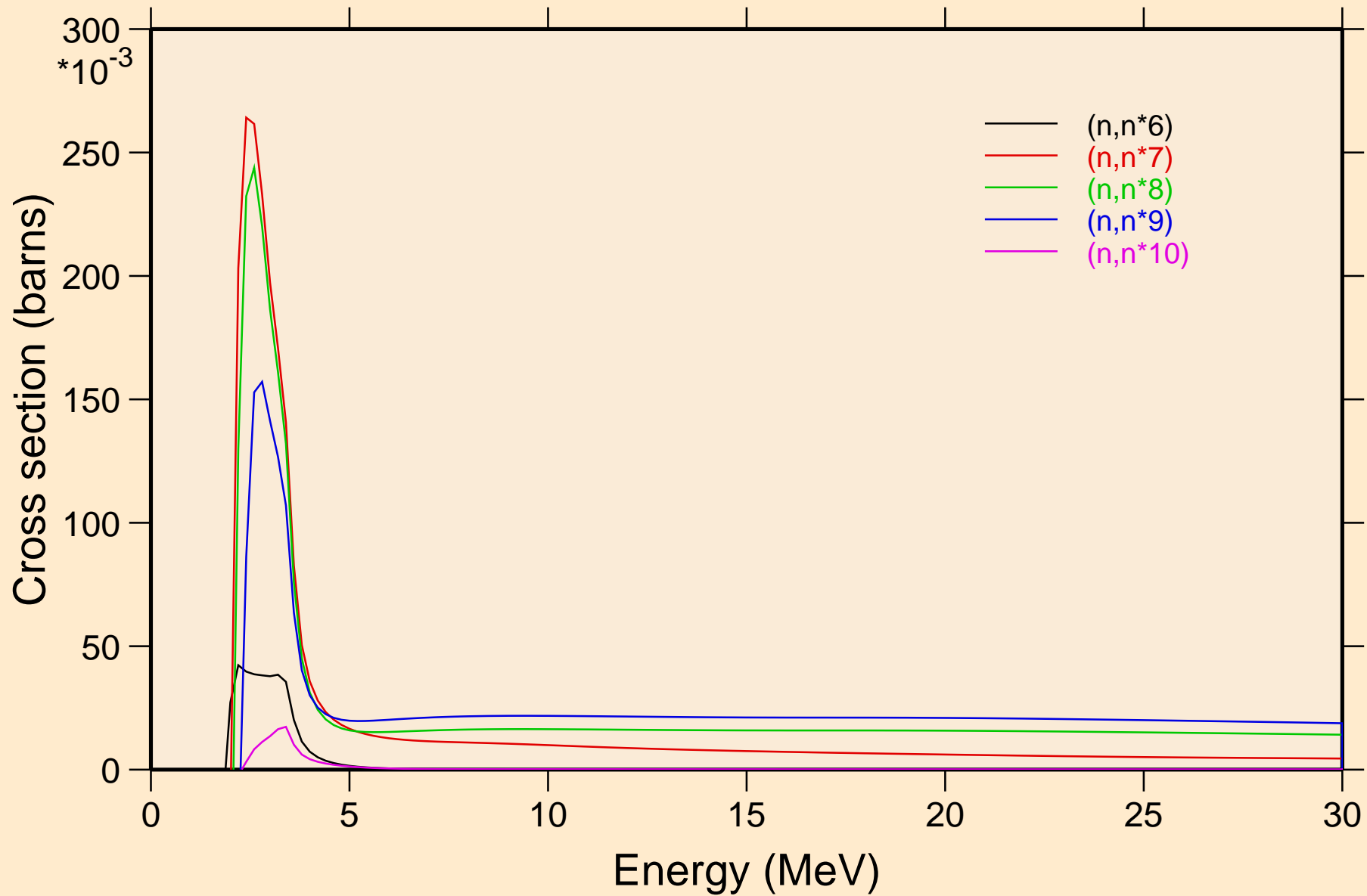
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

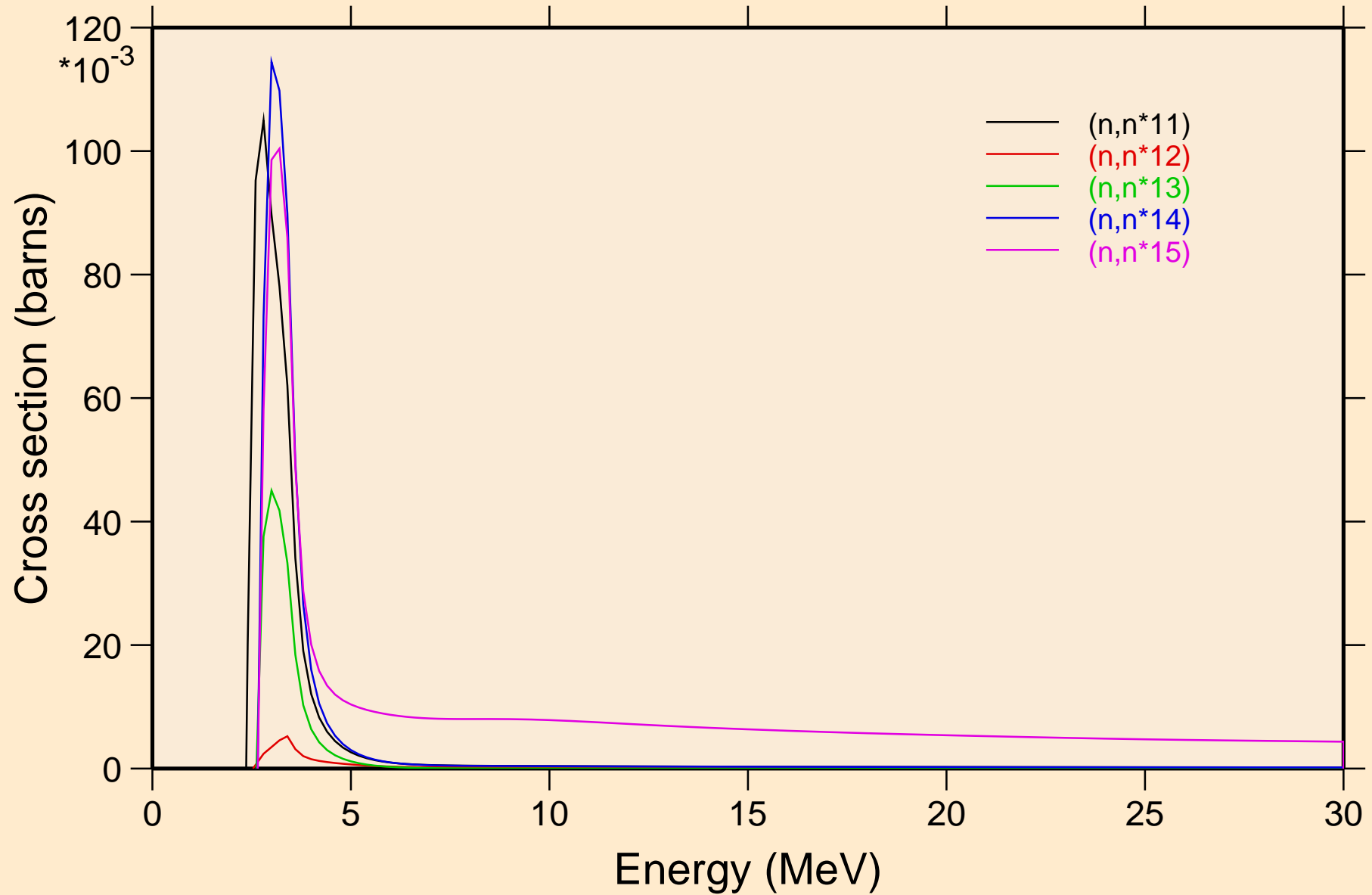


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

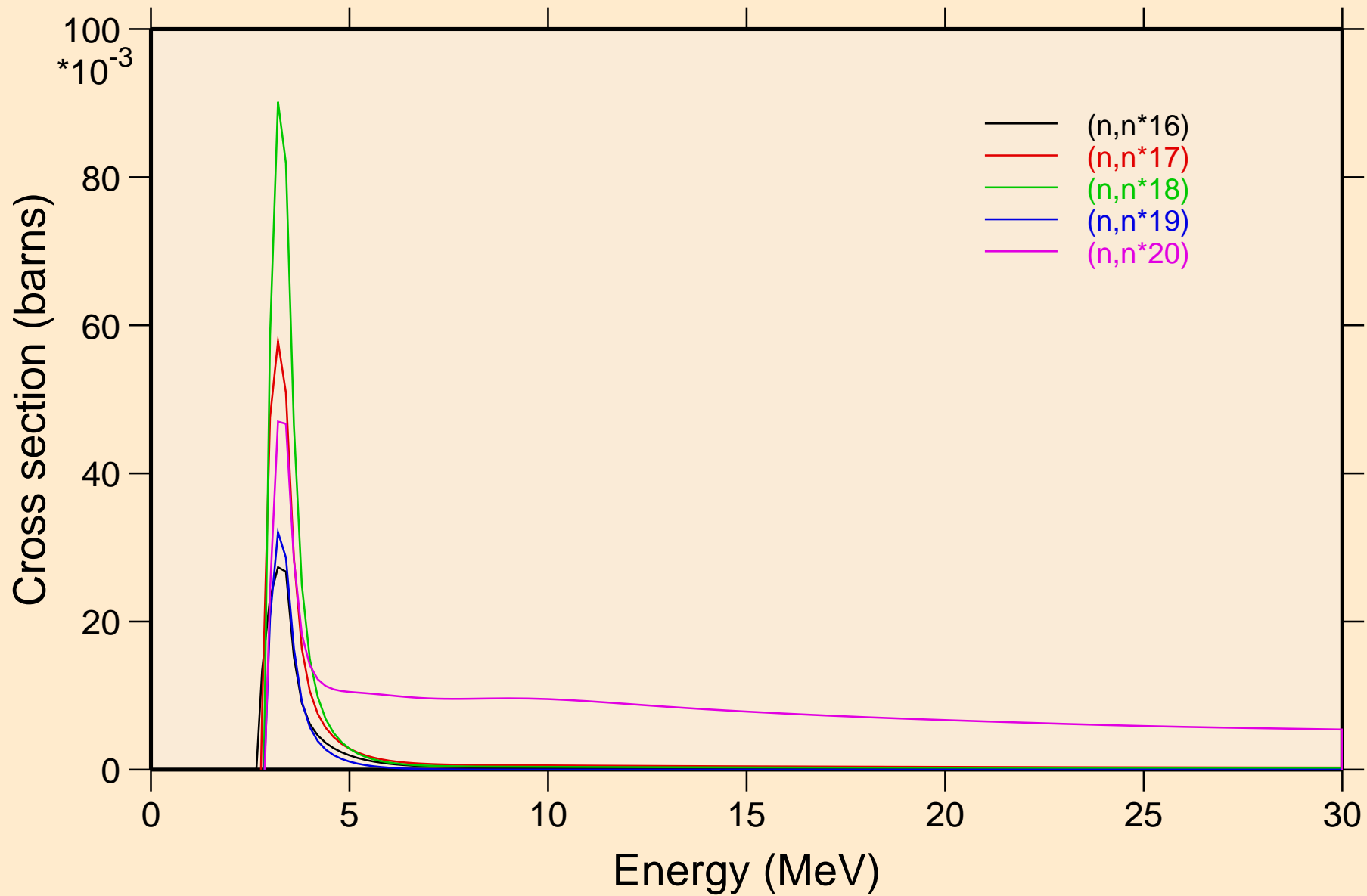




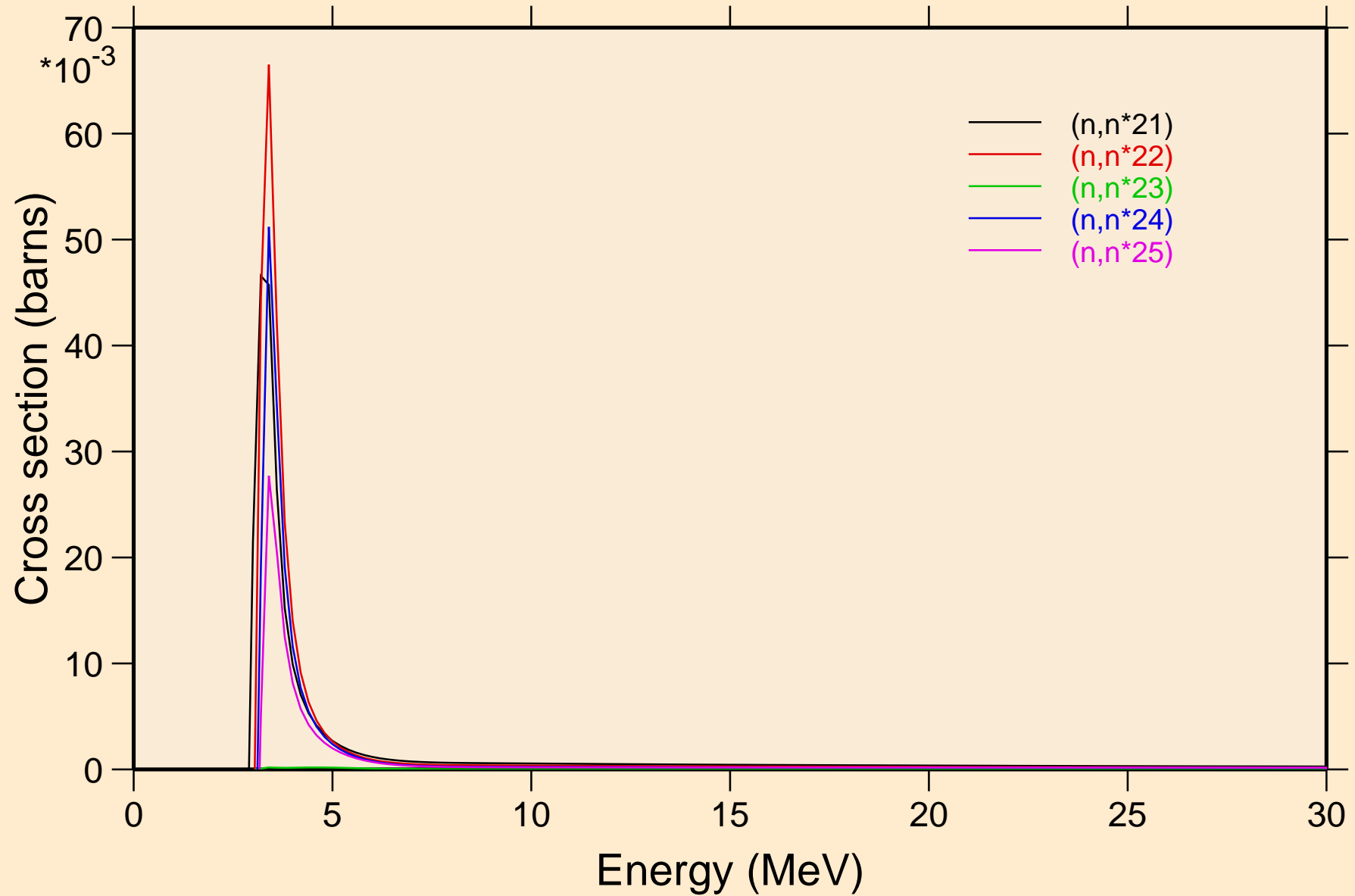
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



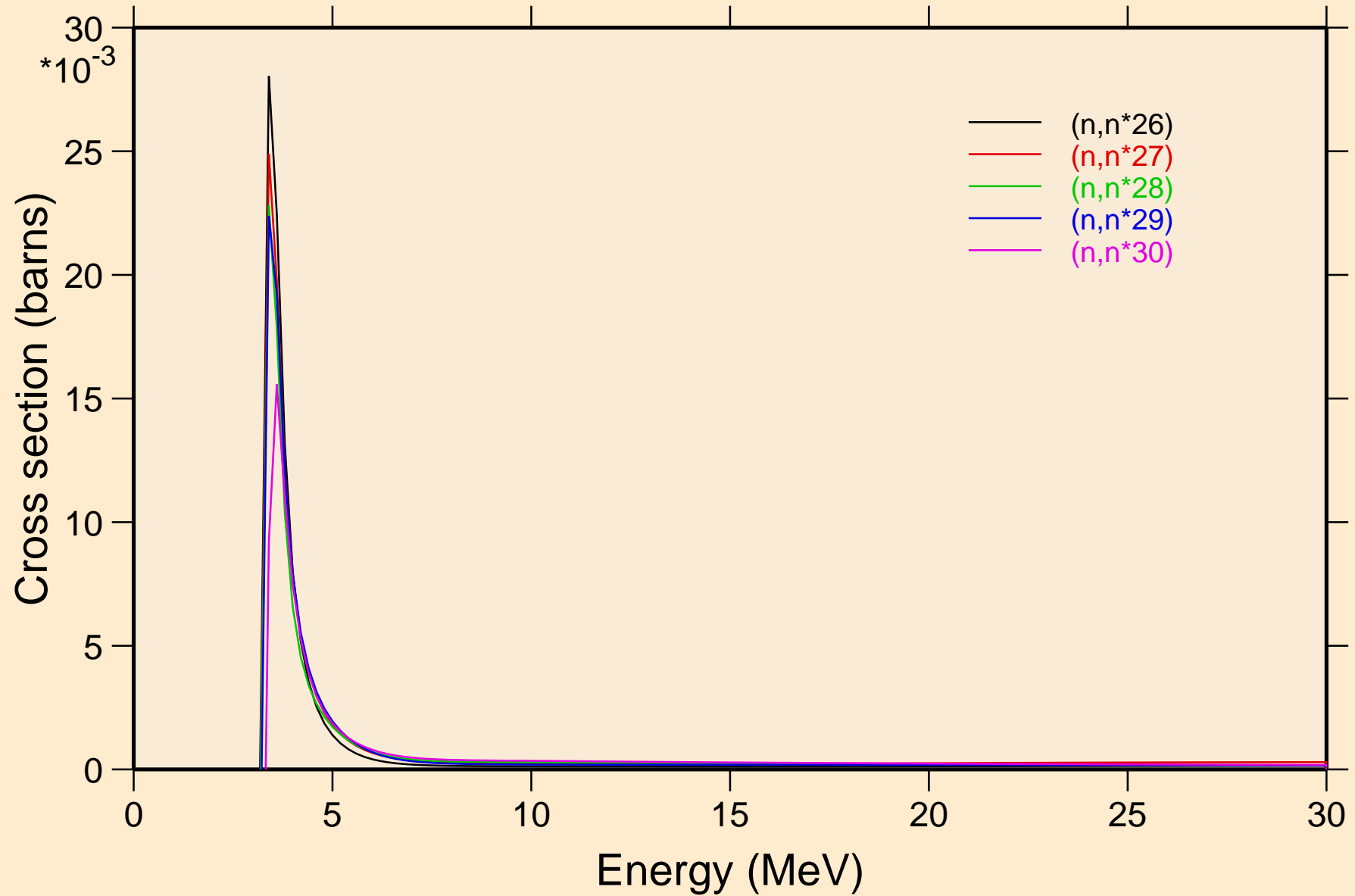
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



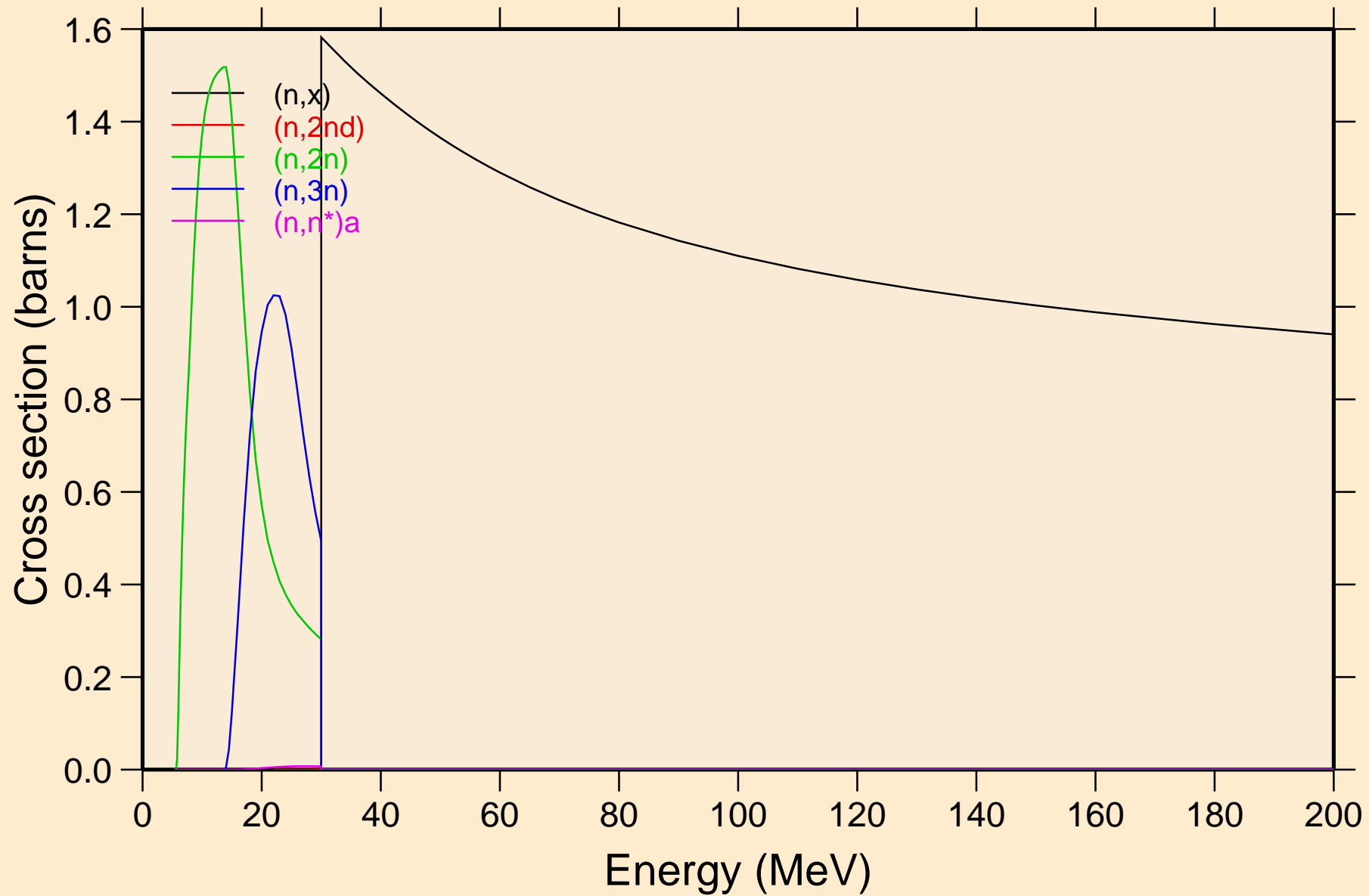
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

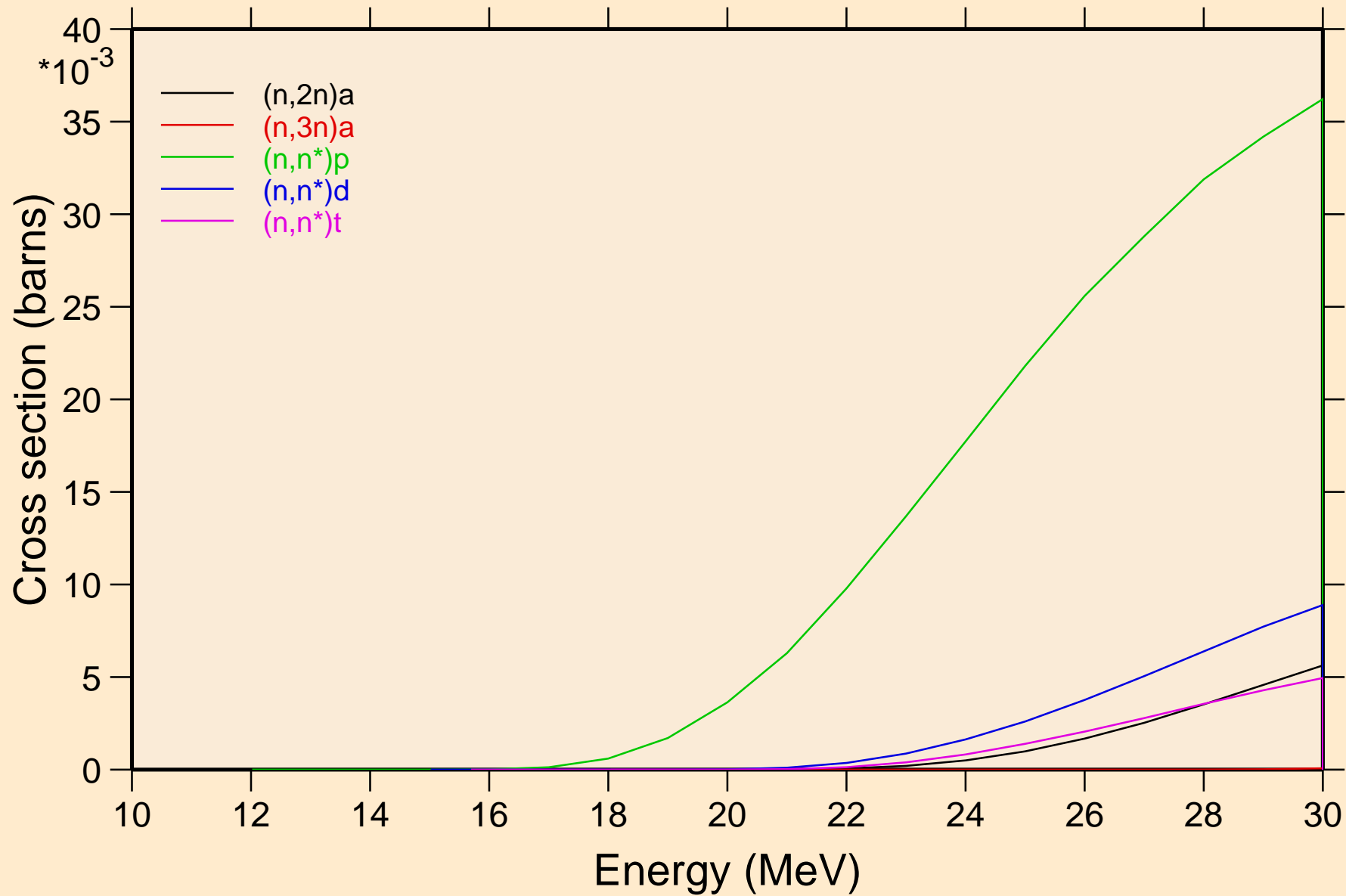


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

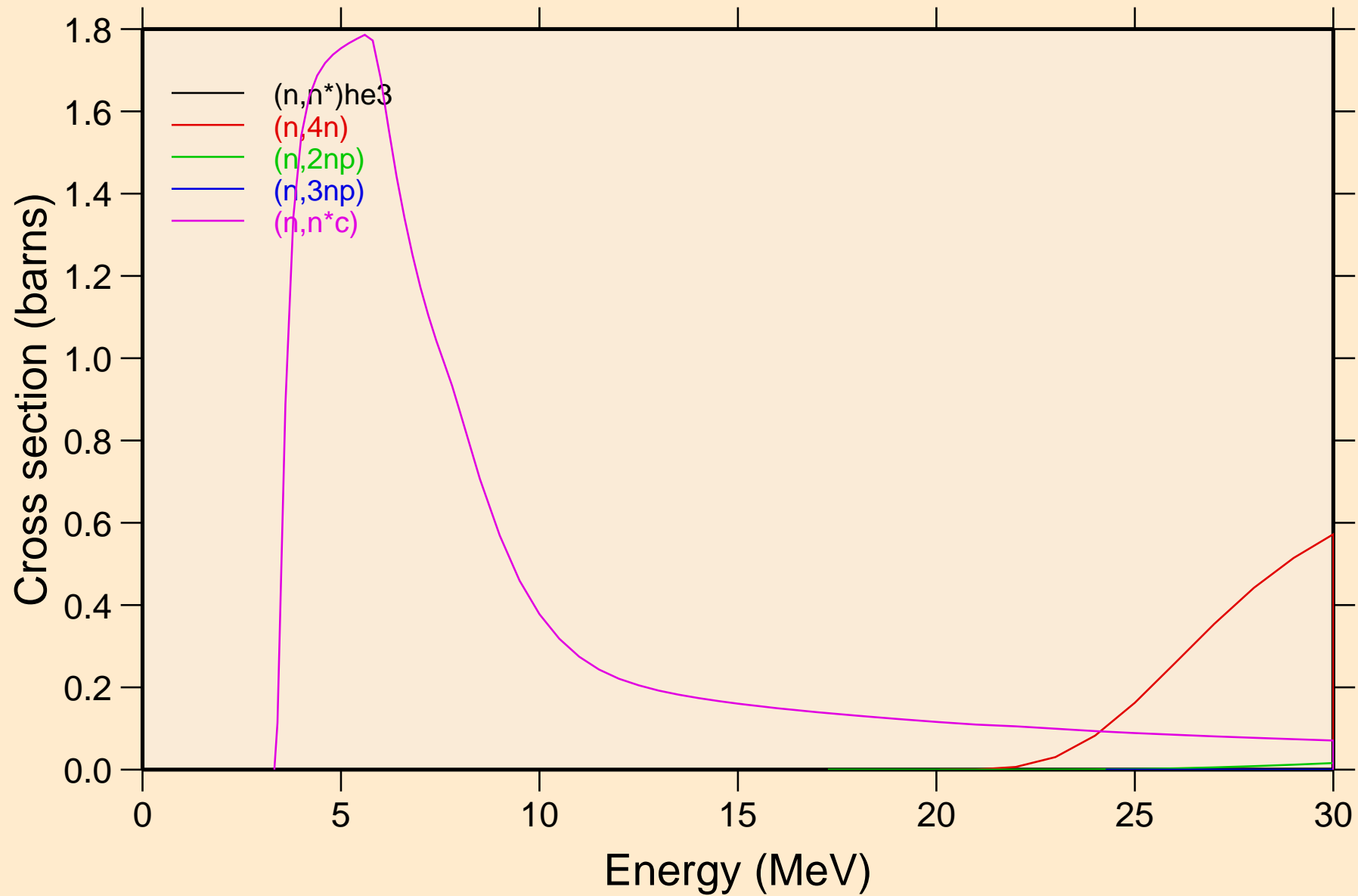


# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

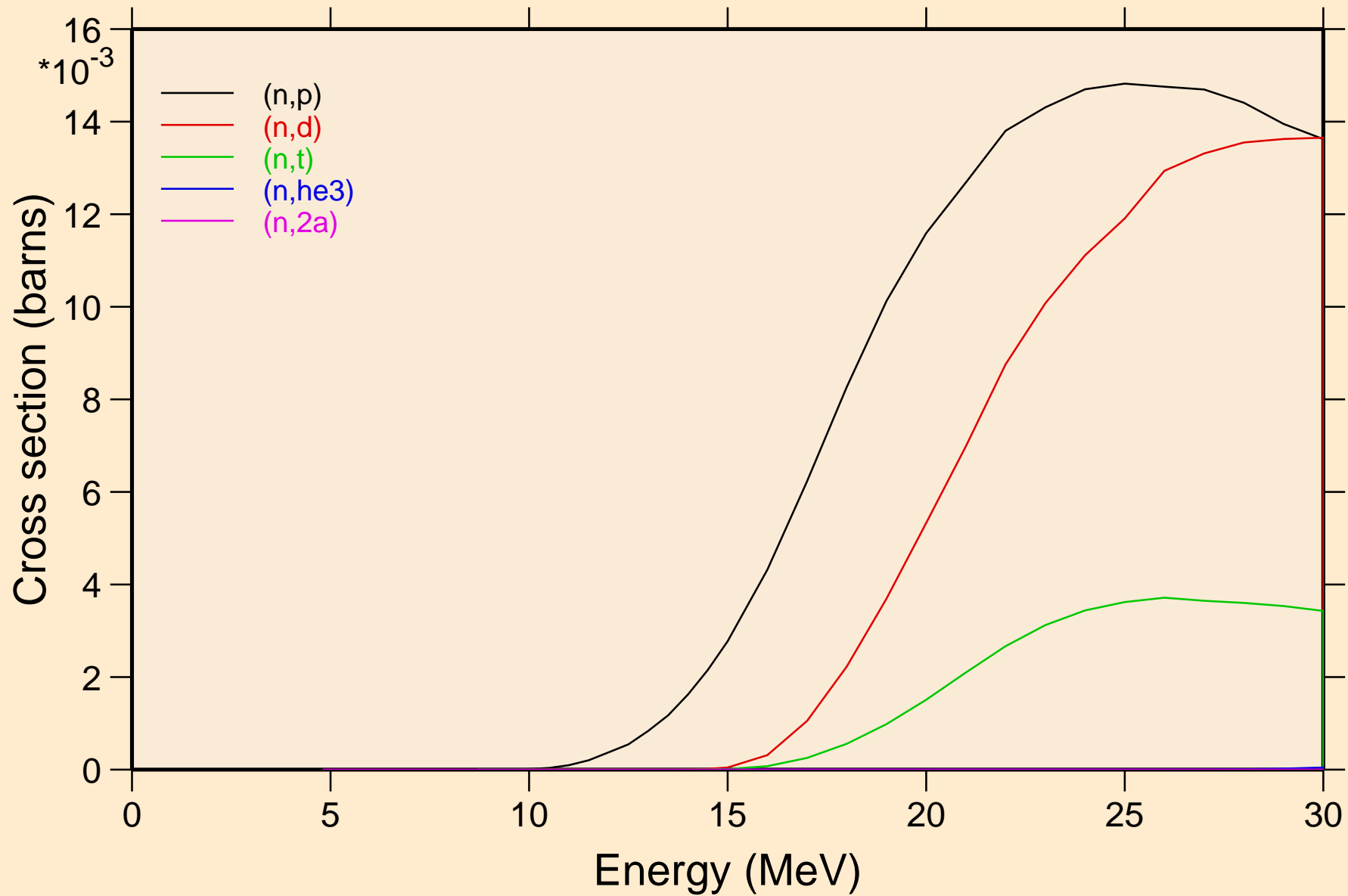
## Threshold reactions



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

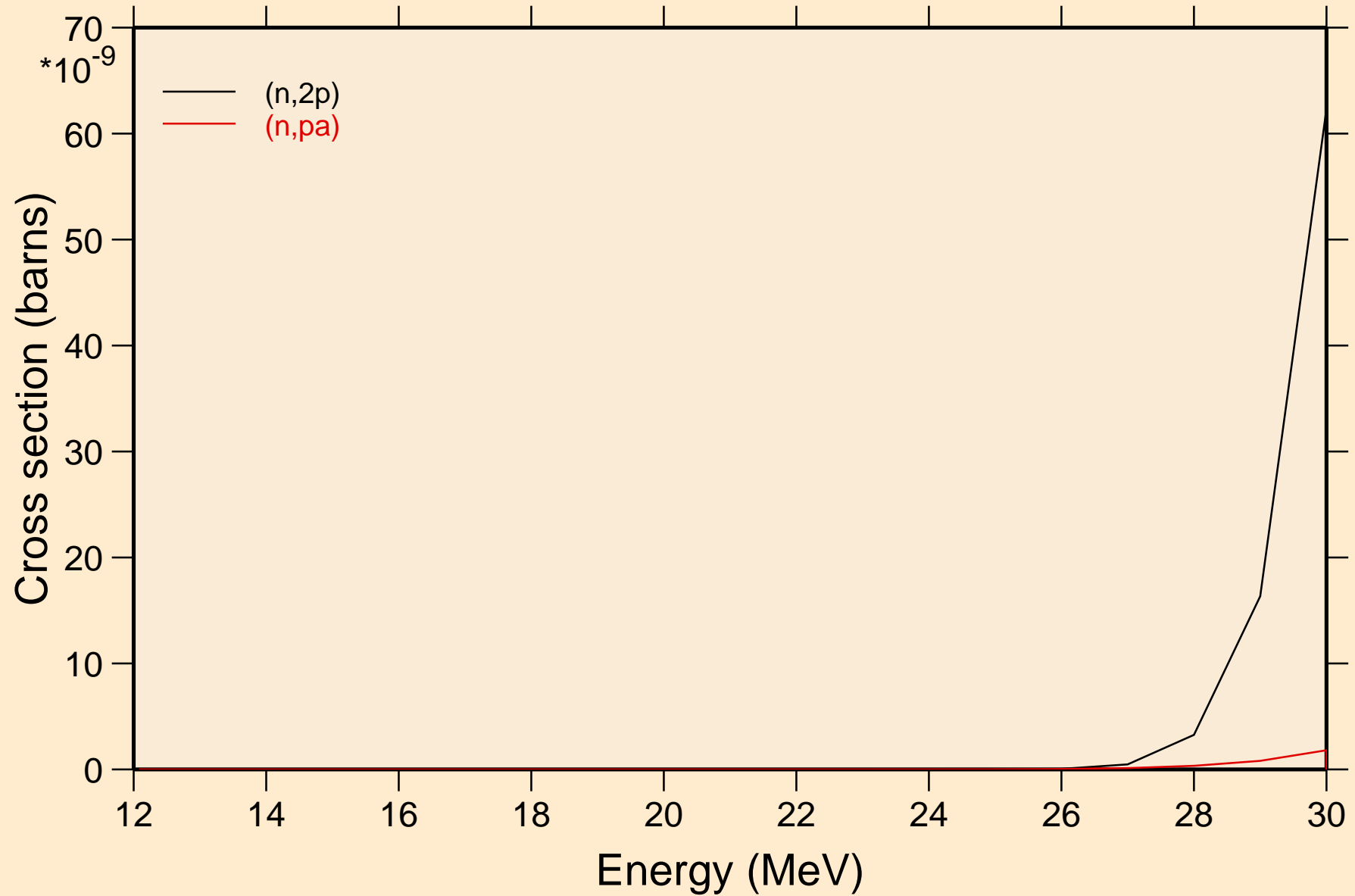


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



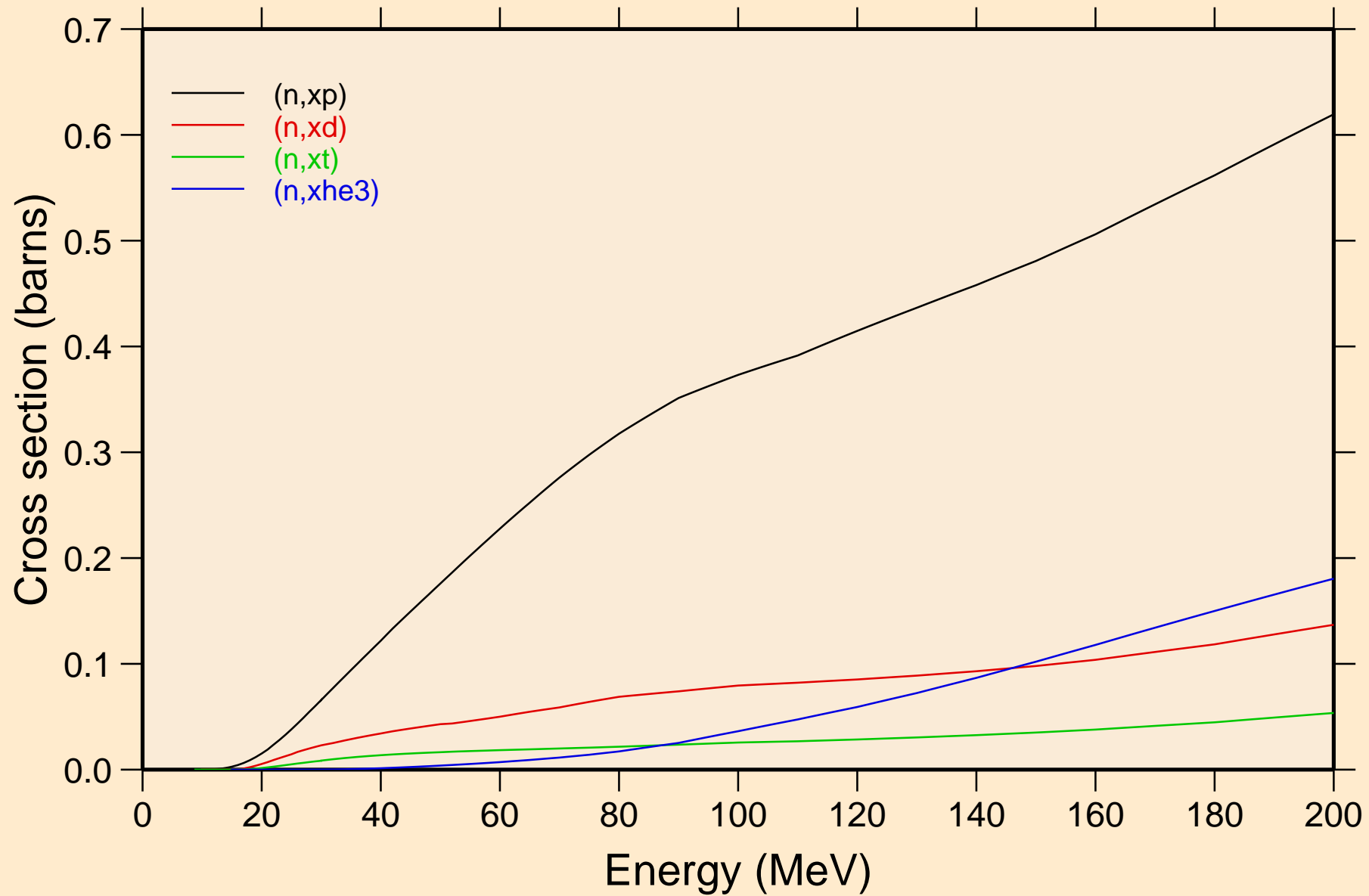


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

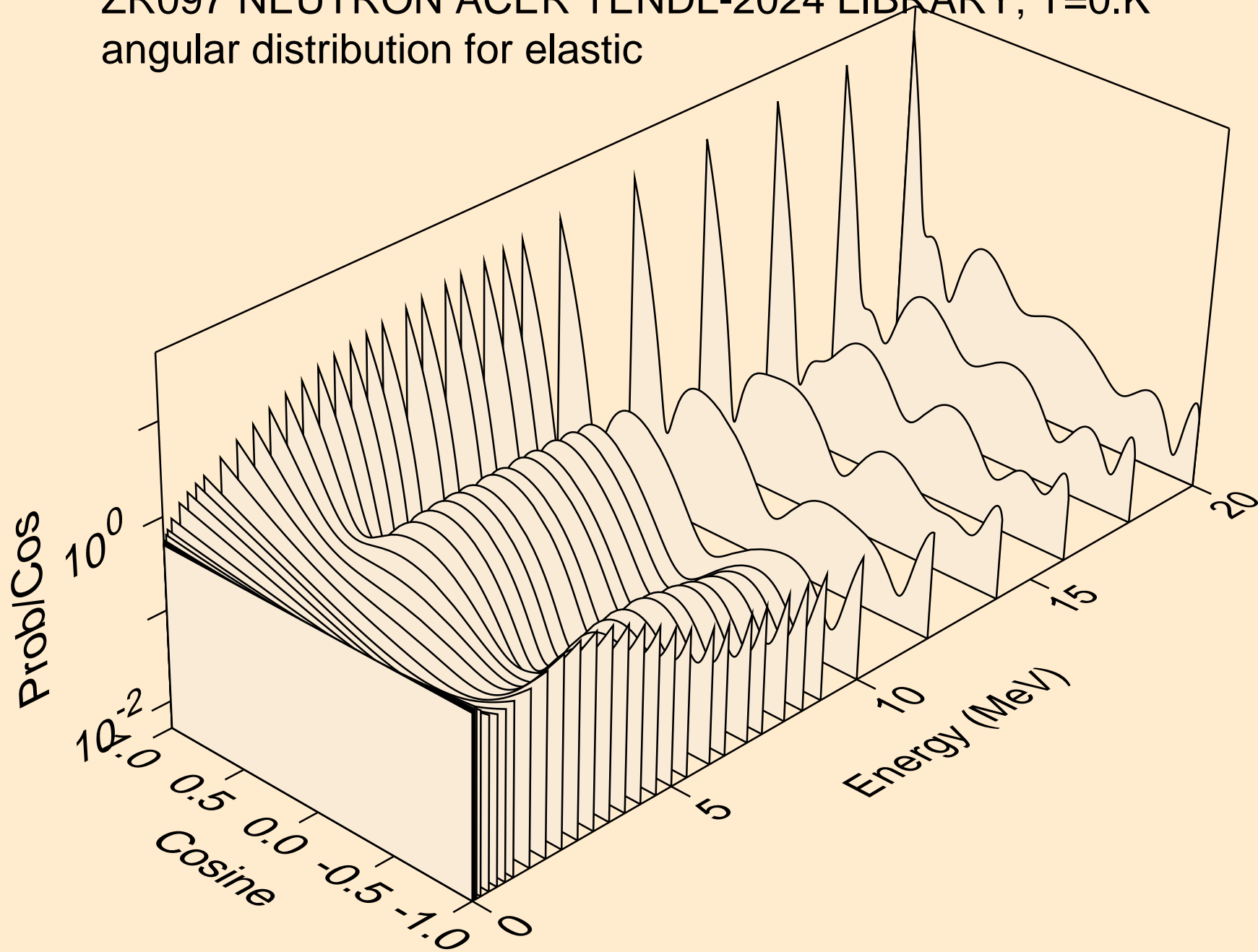


# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

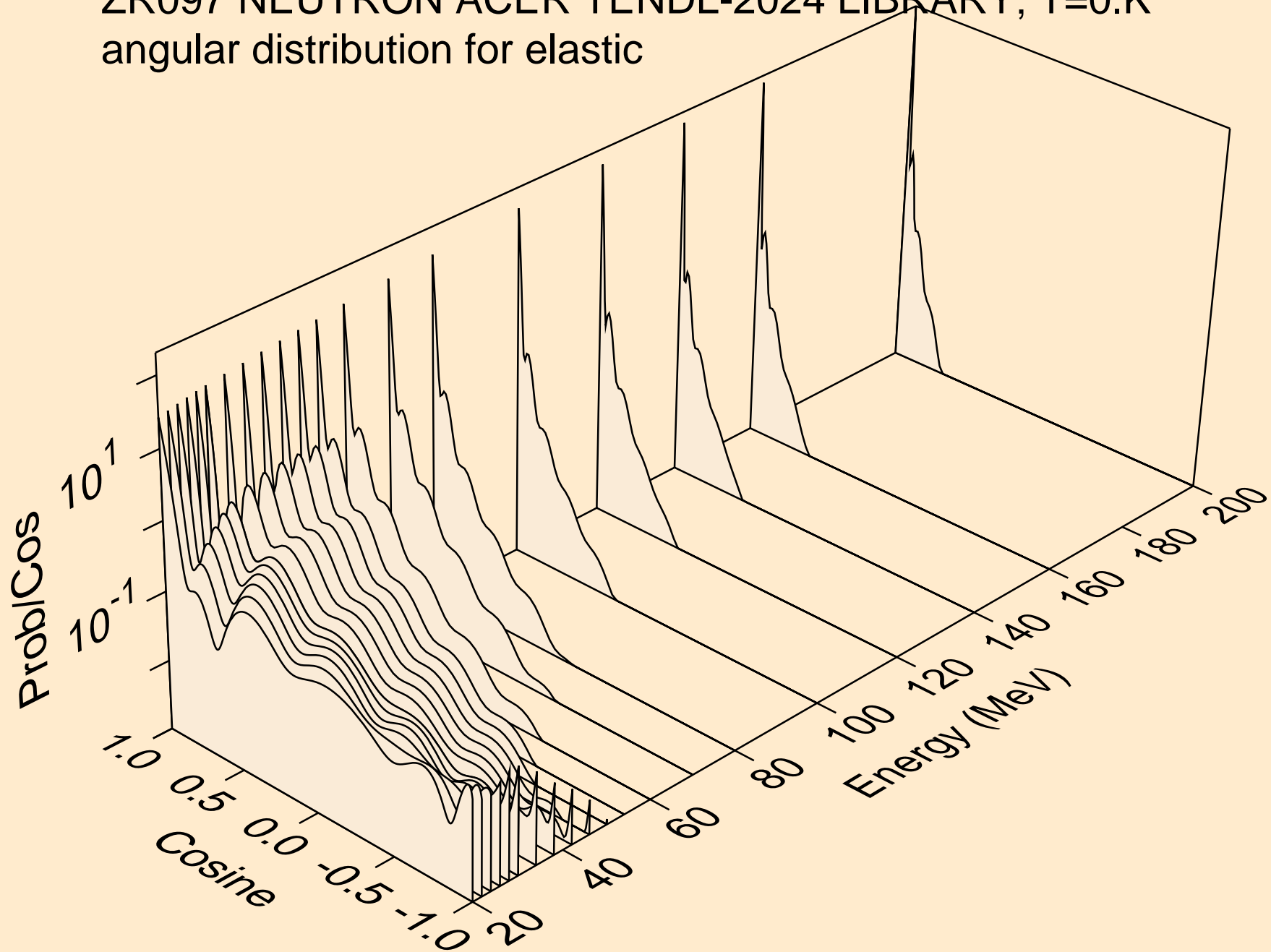
## Threshold reactions



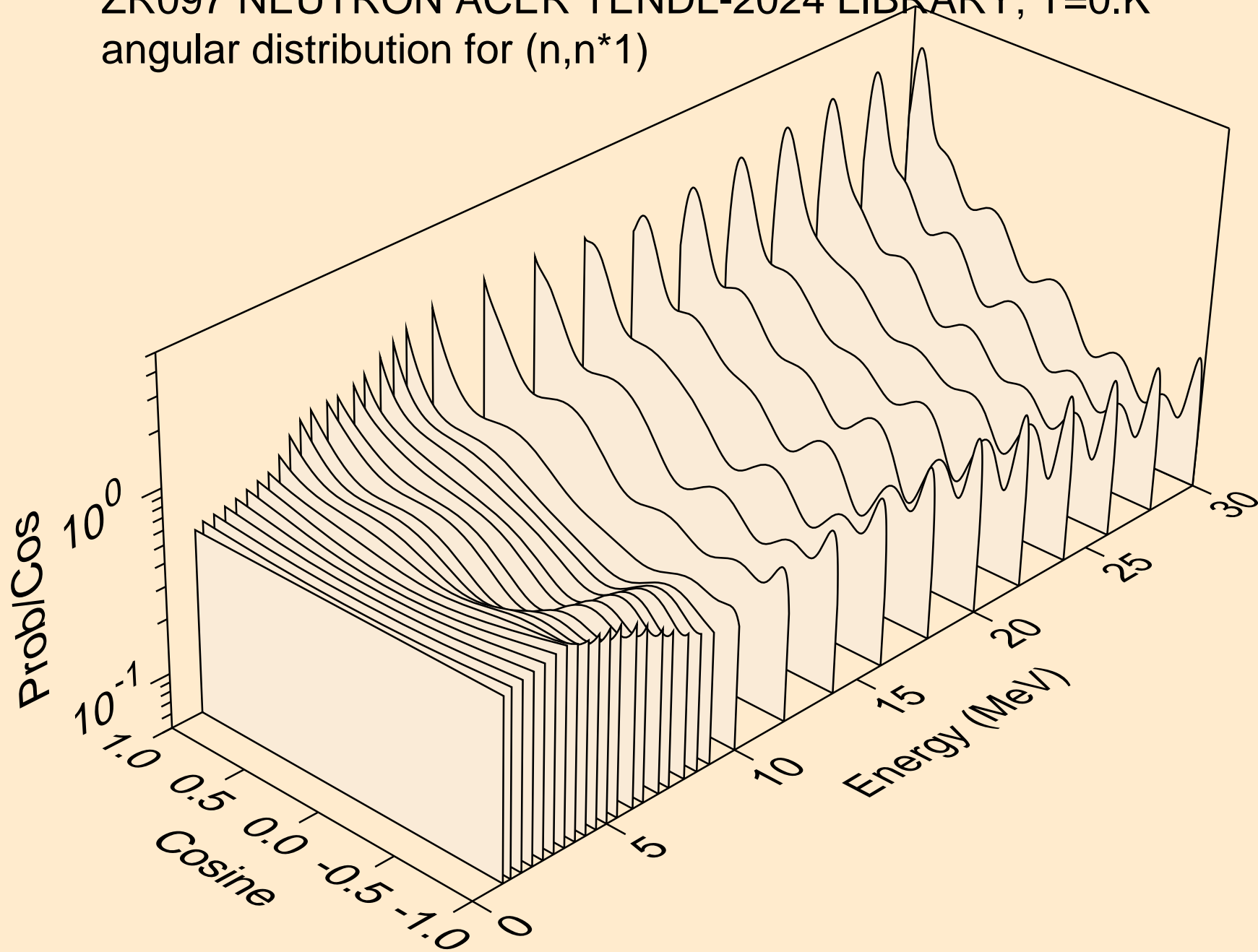
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



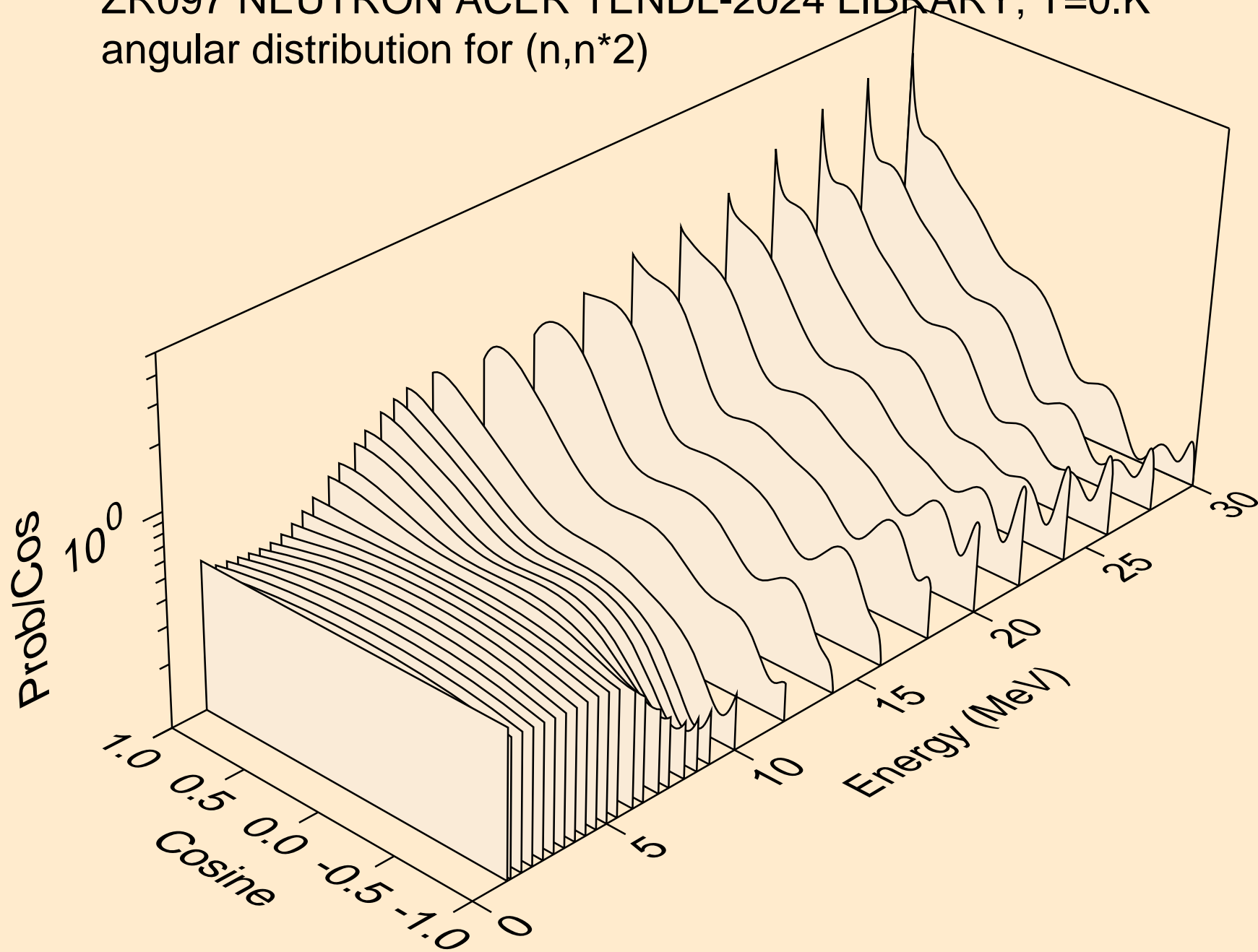
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



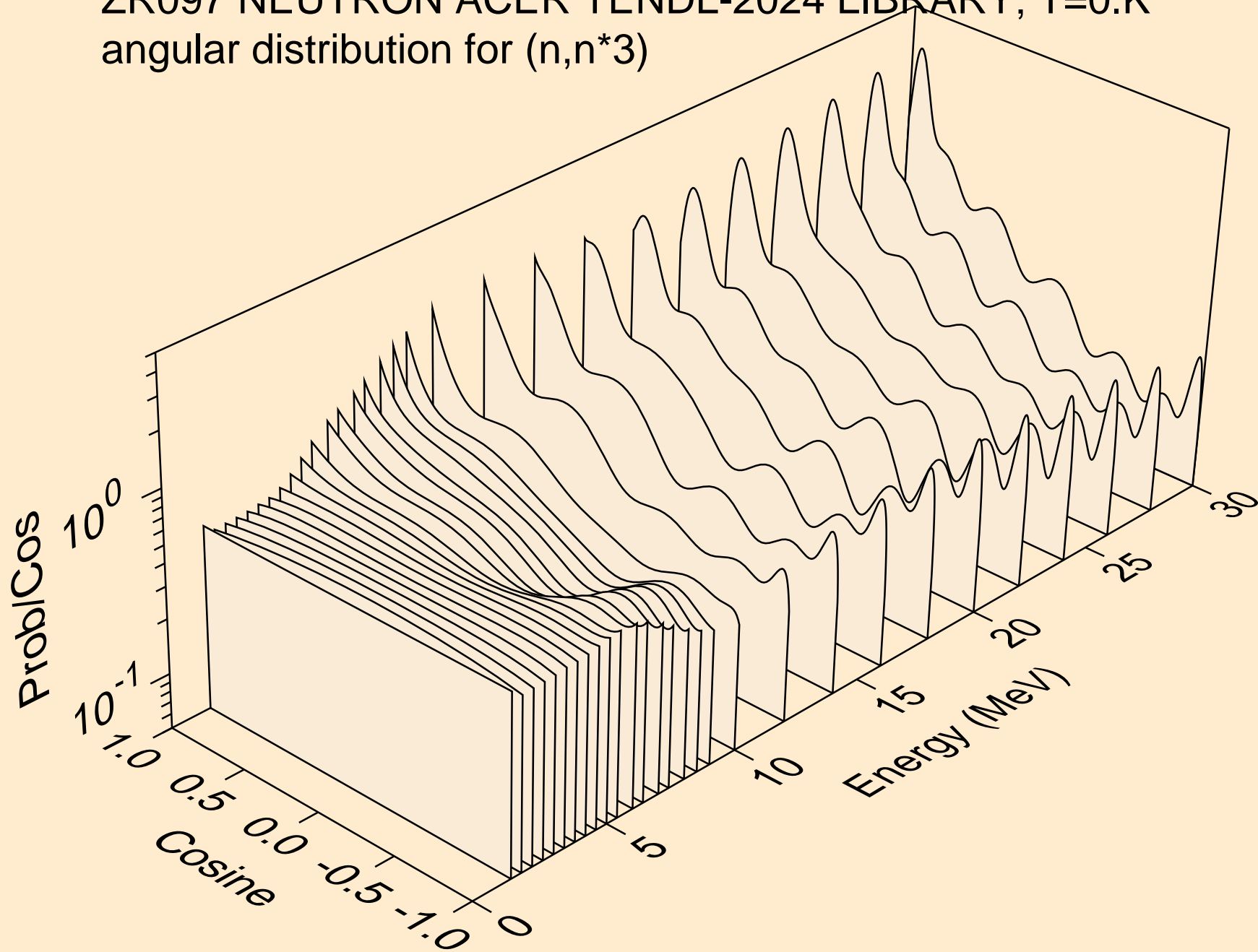
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



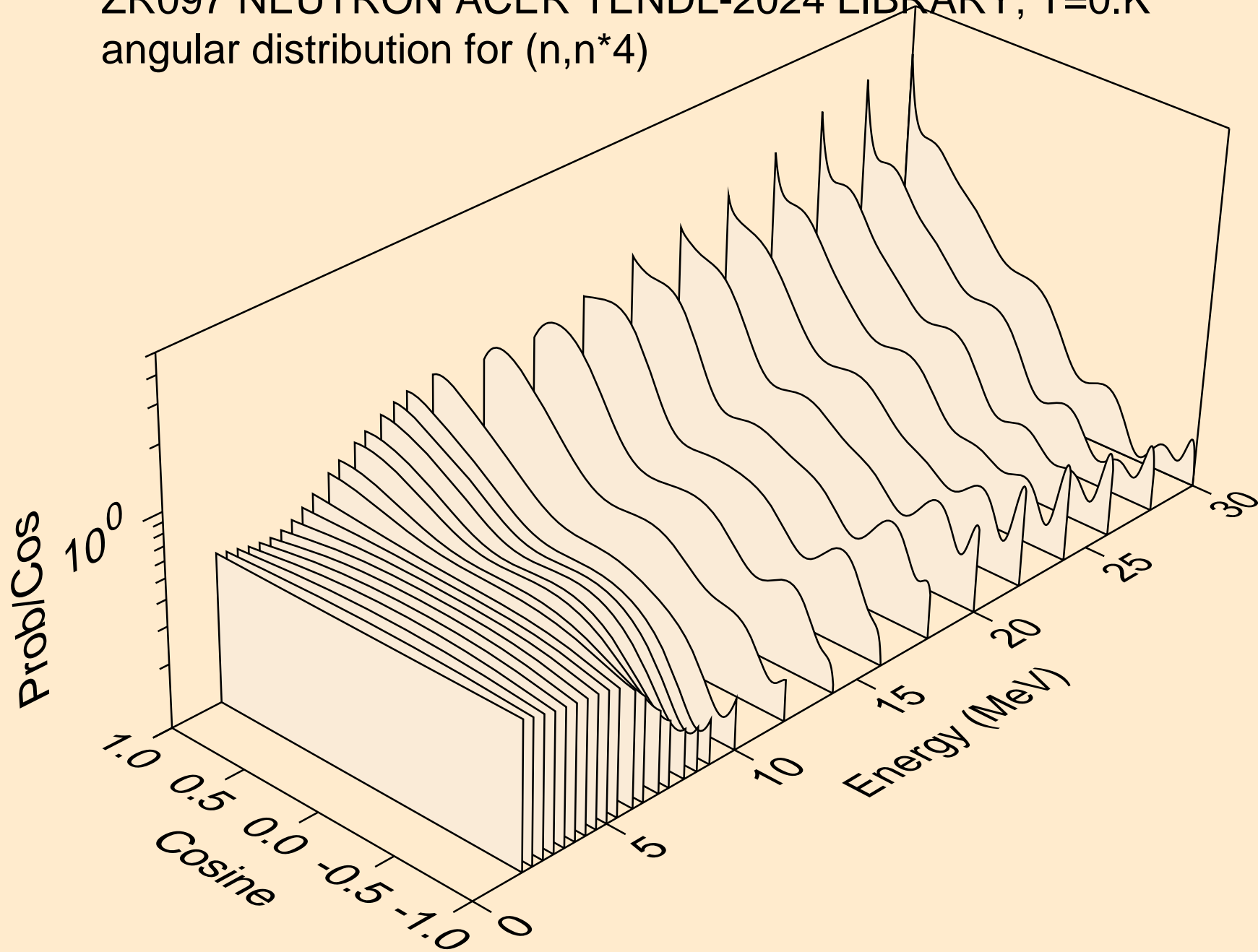
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

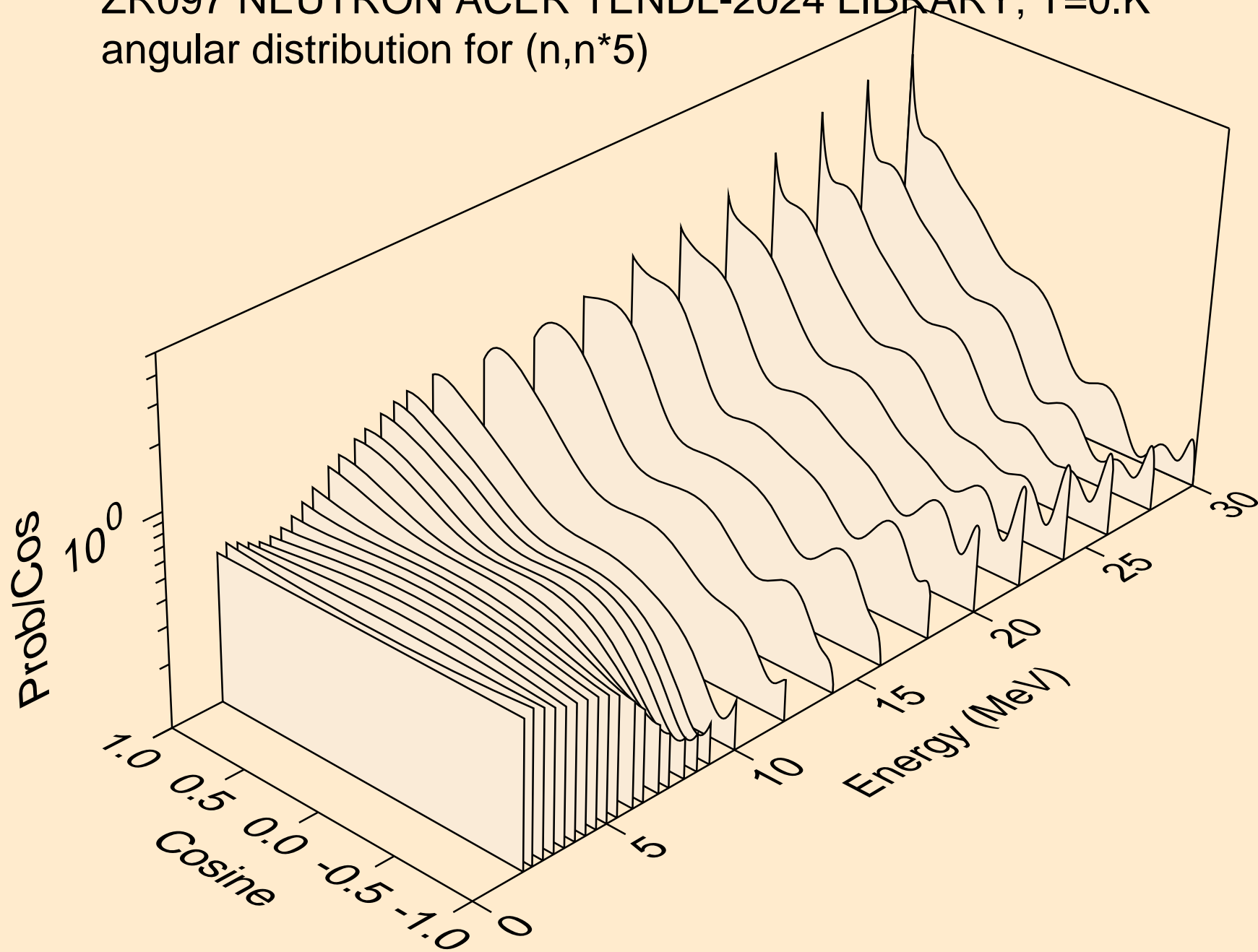


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)

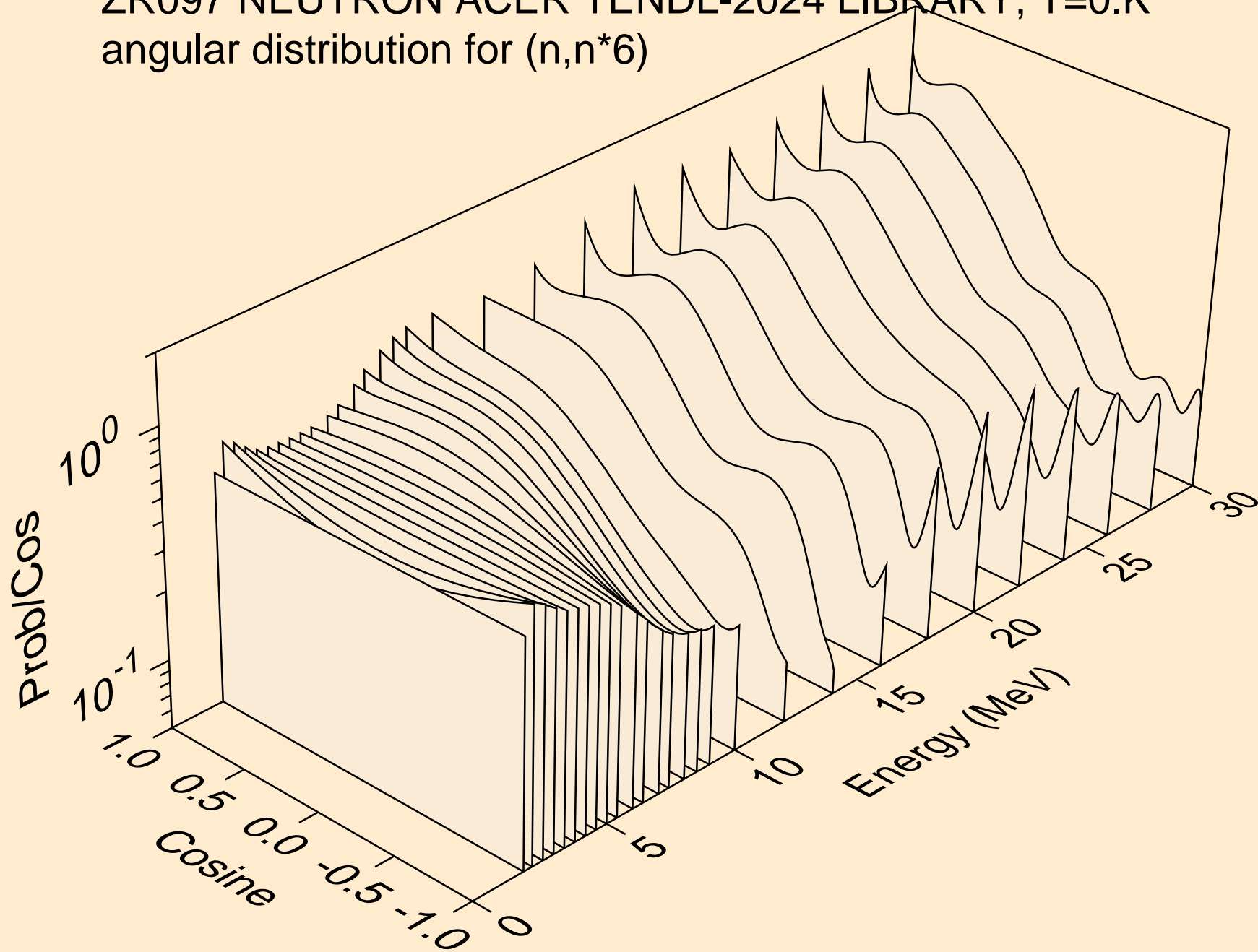




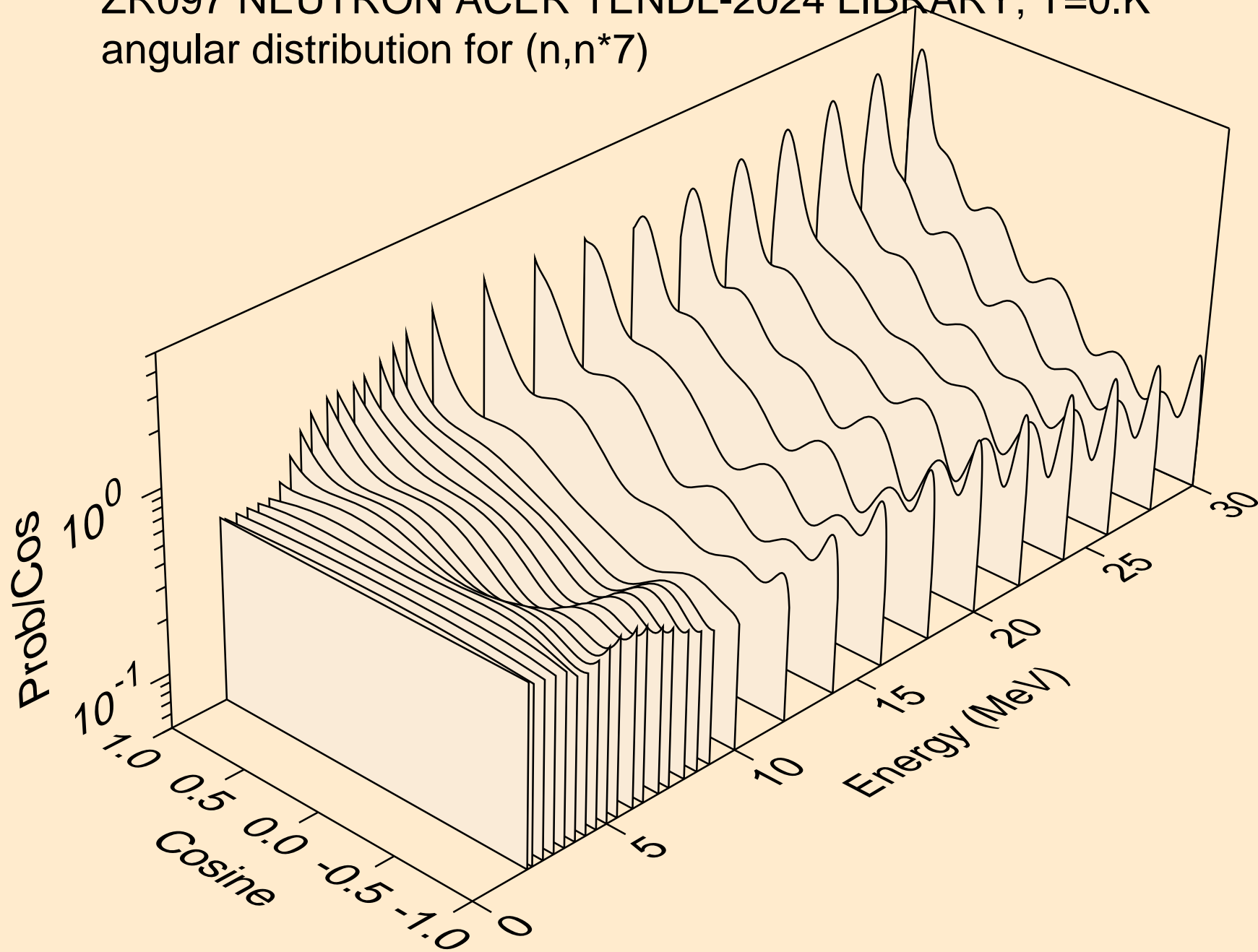
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angular distribution for (n,n\*5)



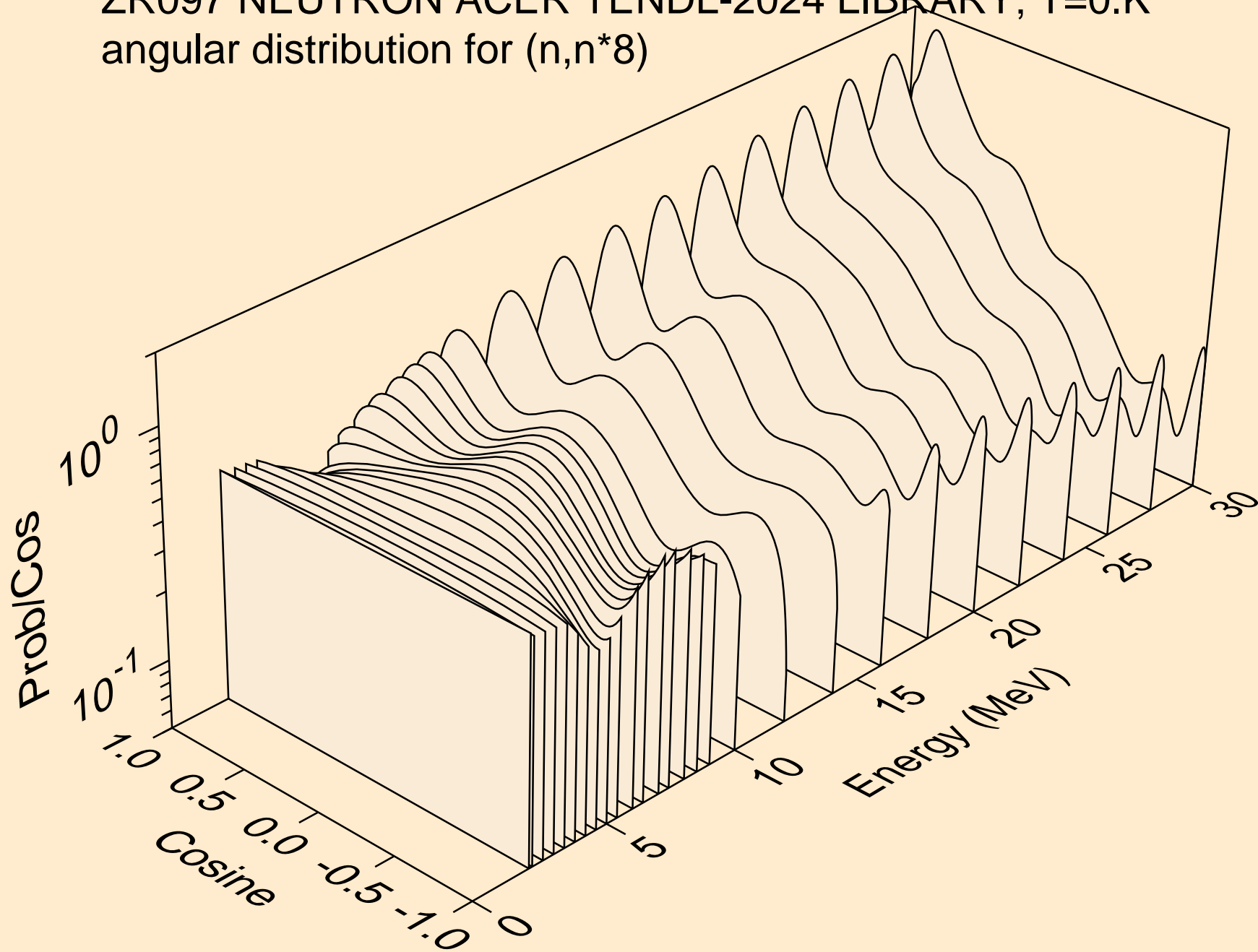
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angular distribution for (n,n\*6)



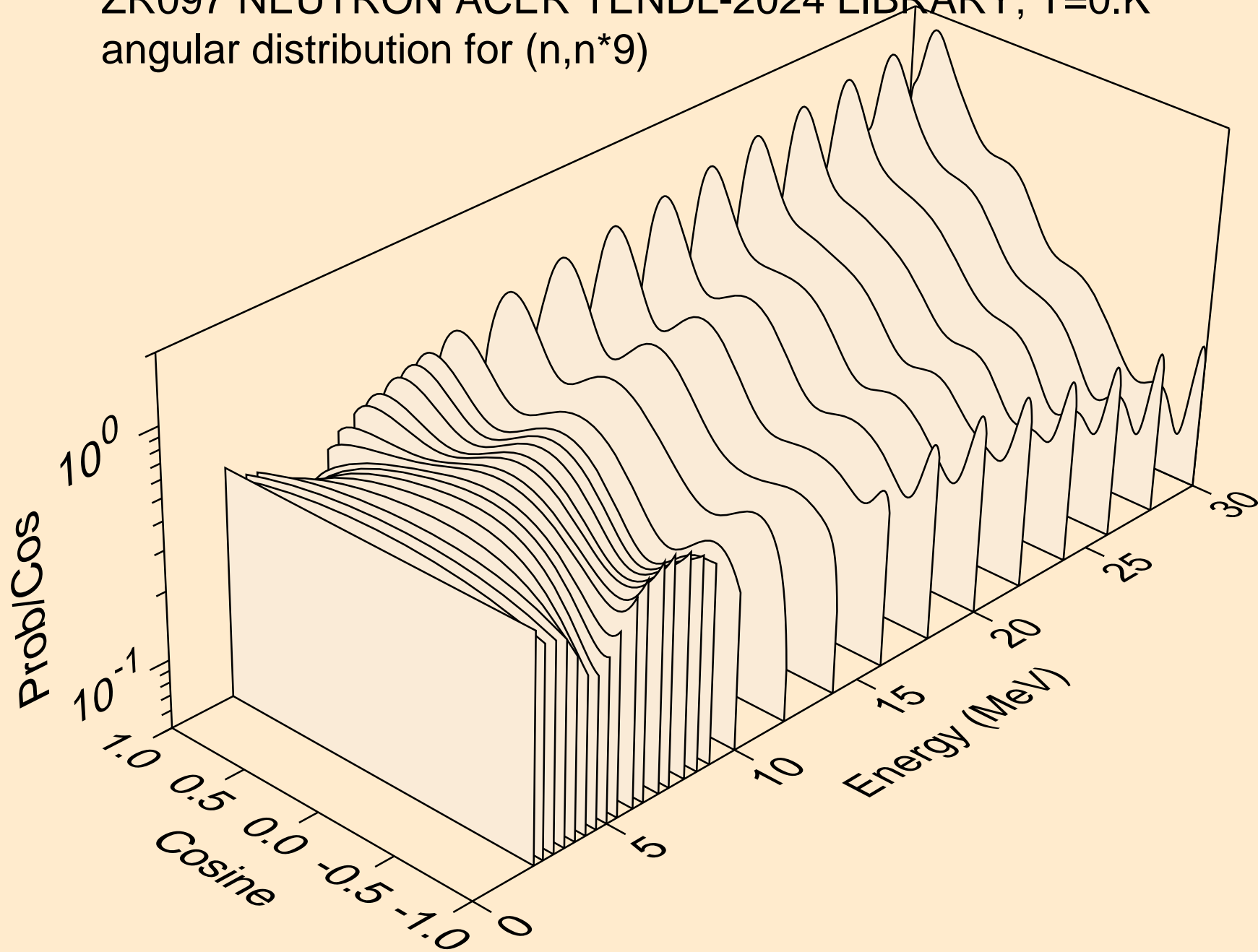
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angular distribution for (n,n\*7)



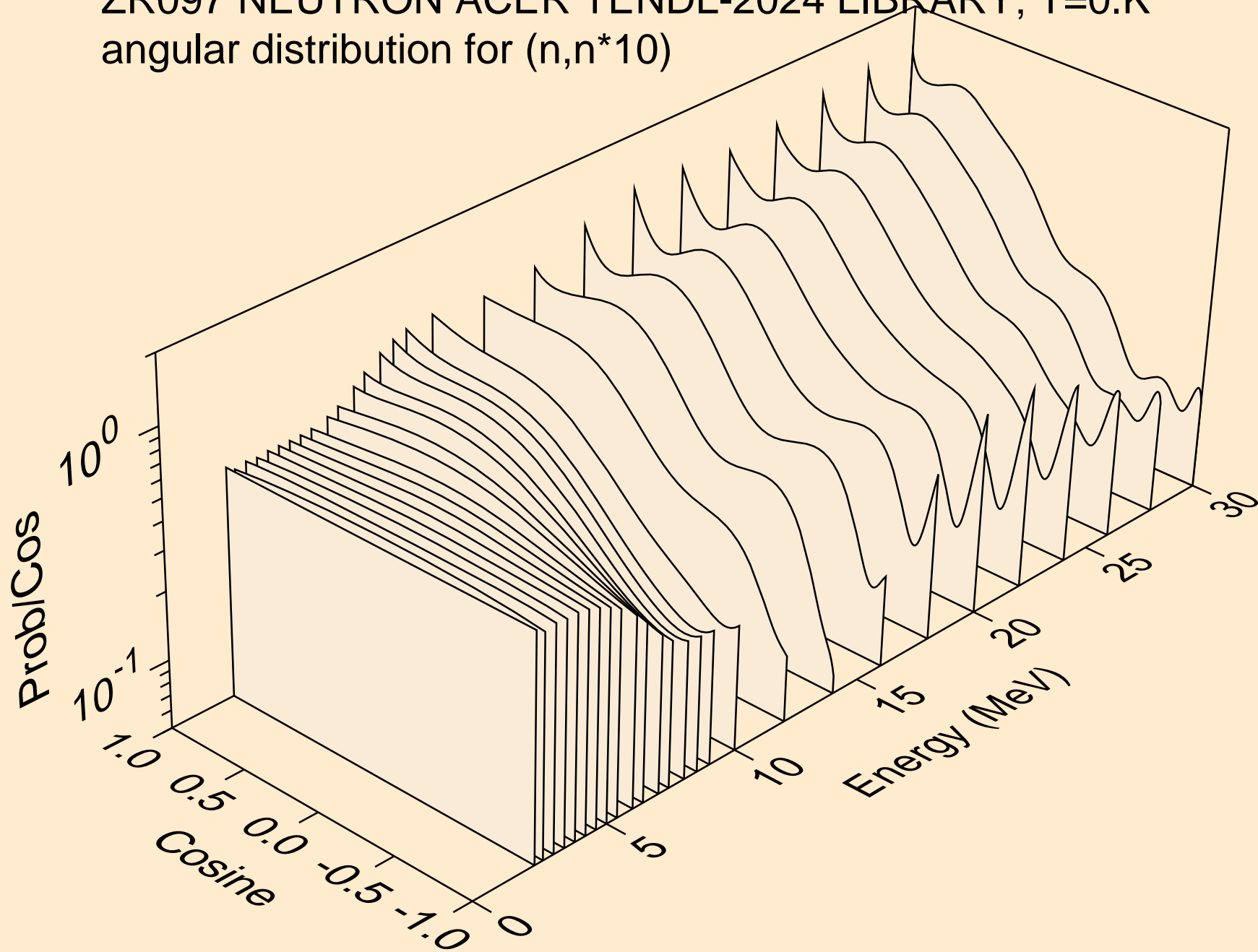
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angular distribution for (n,n\*8)



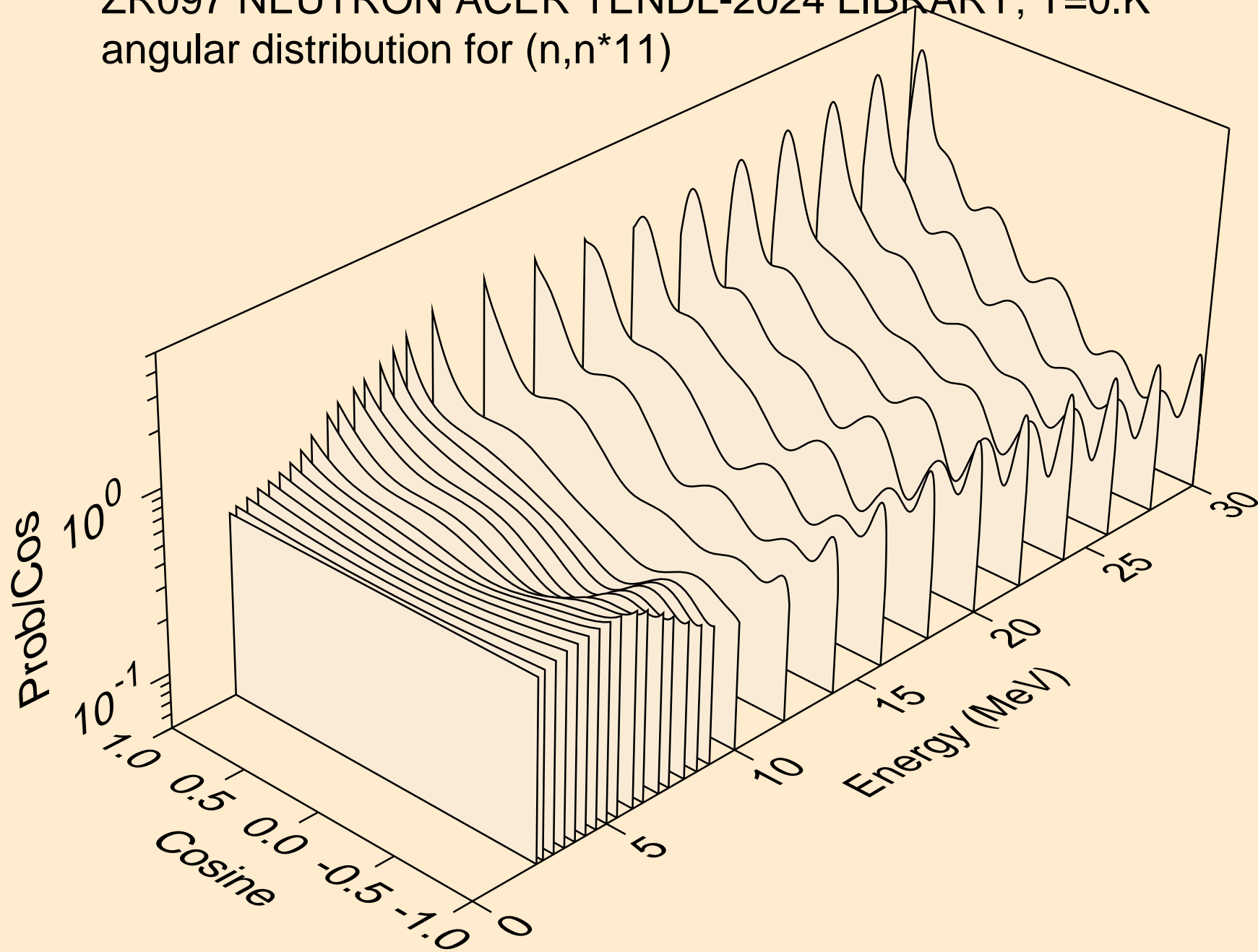
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angular distribution for (n,n\*9)



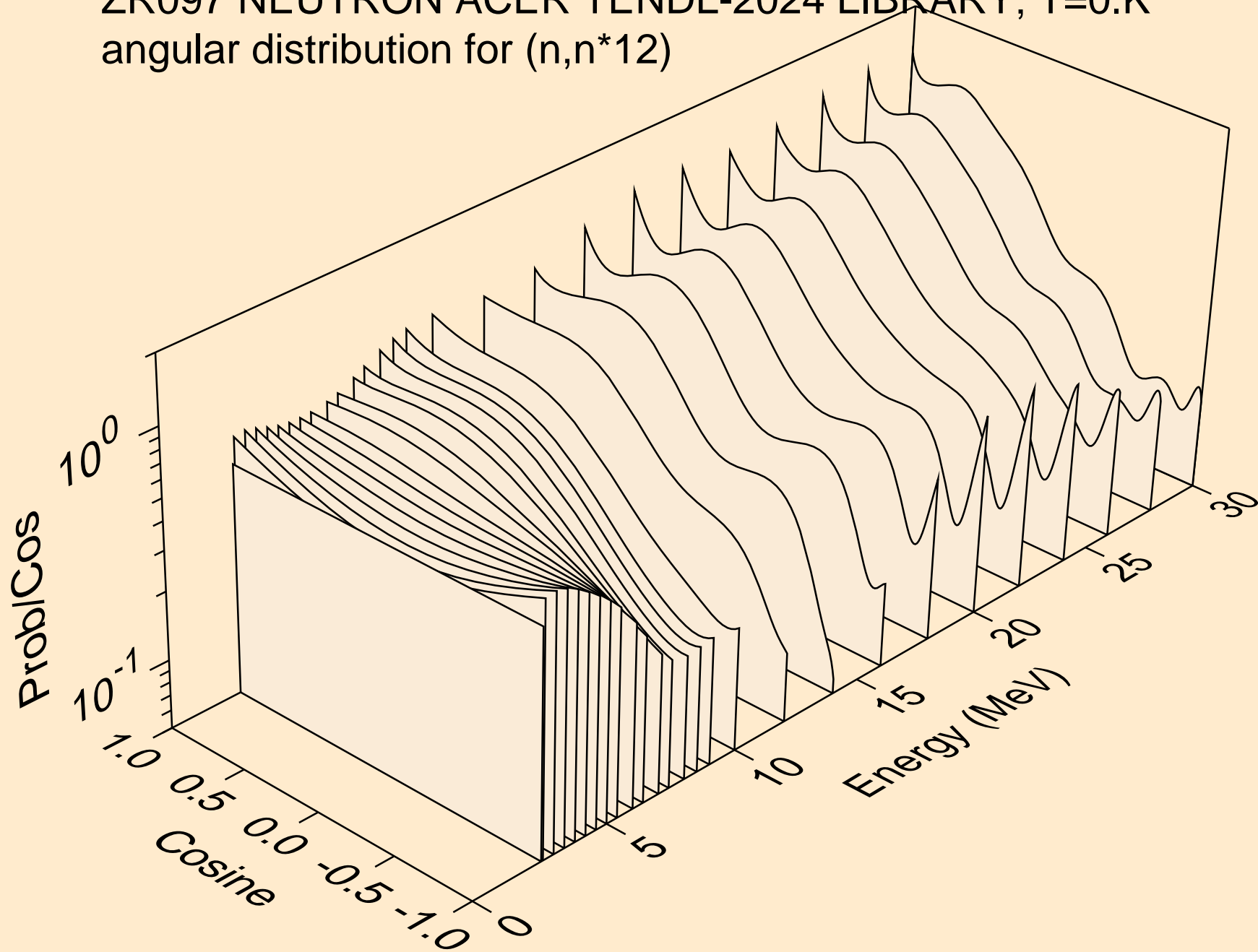
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

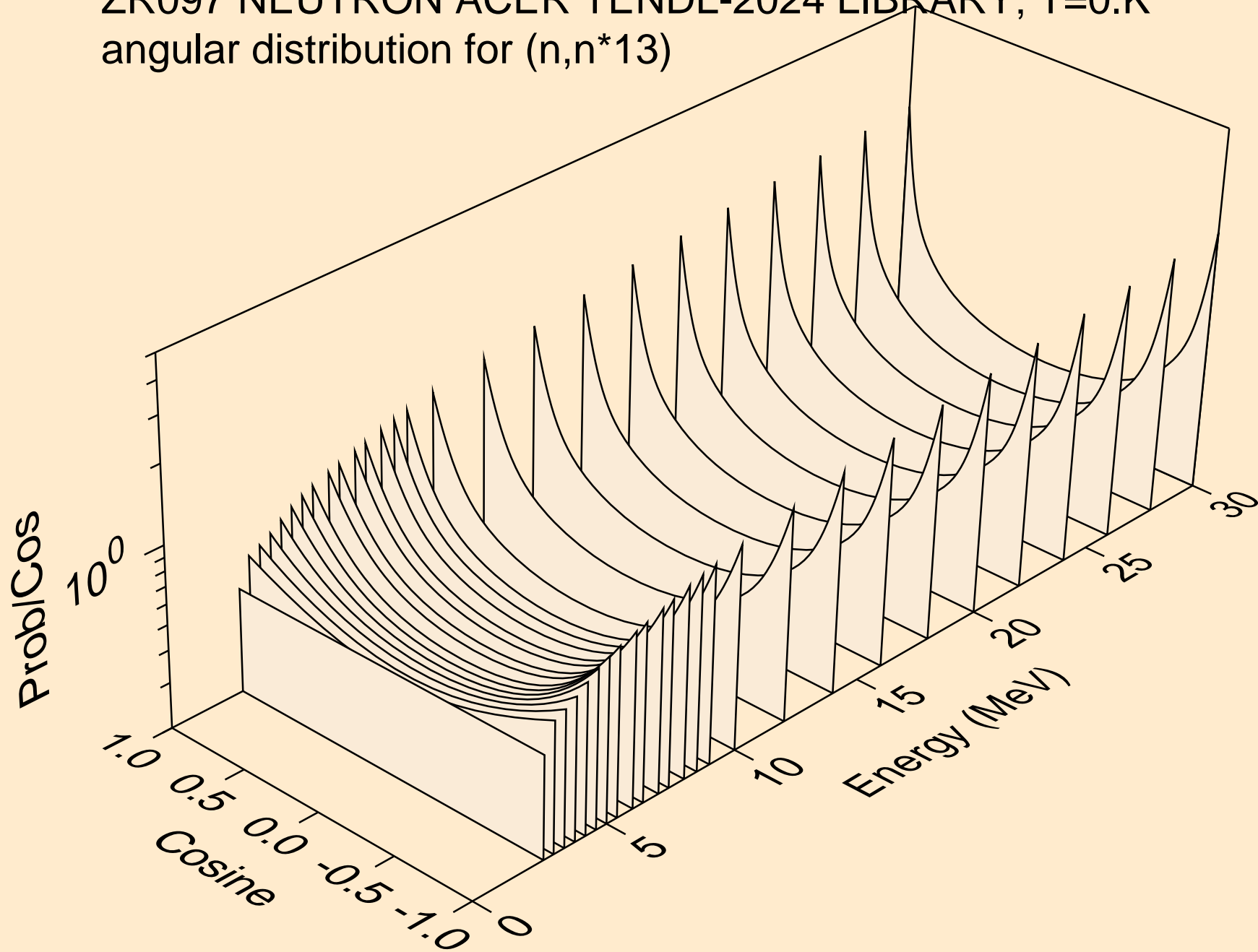


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*12)

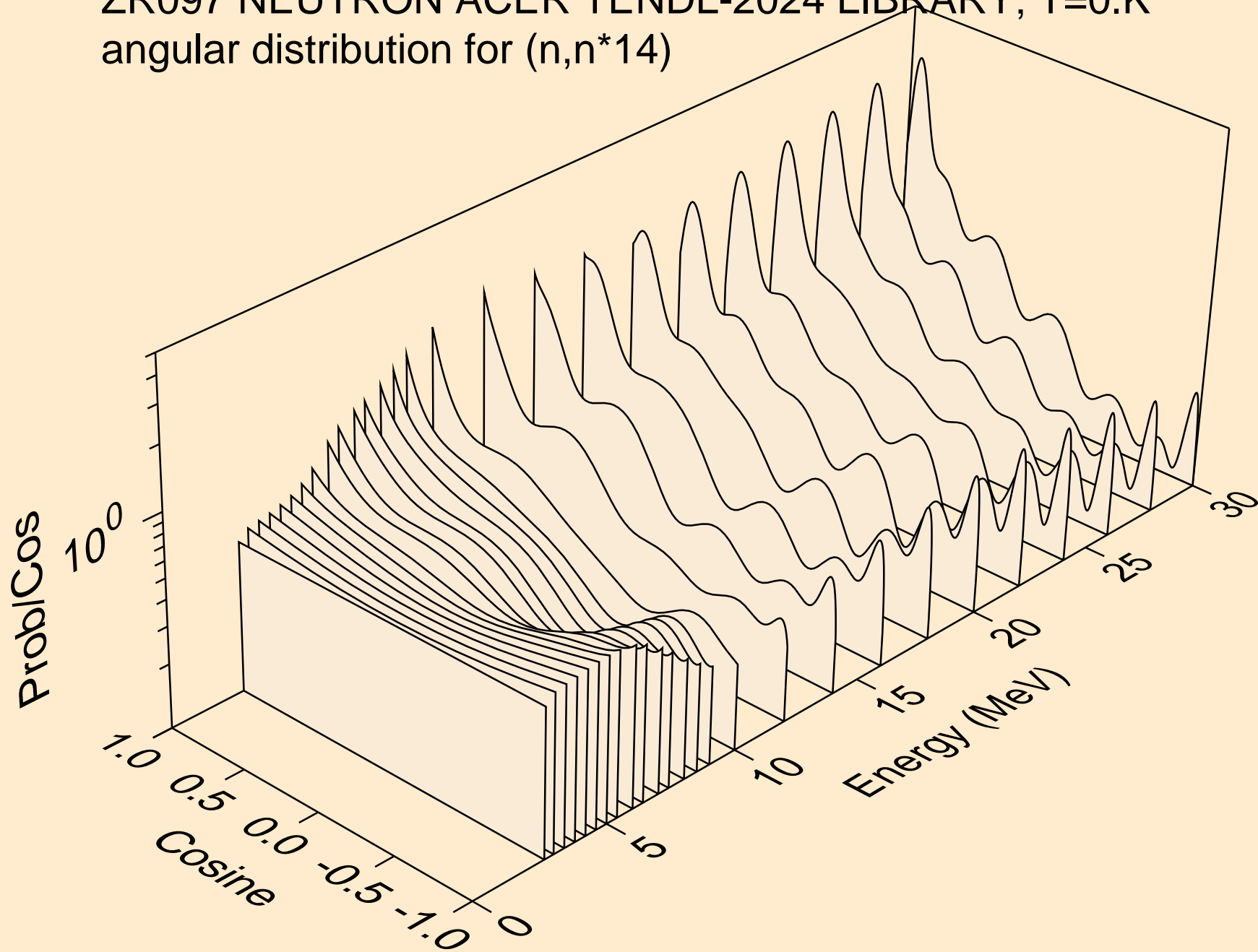




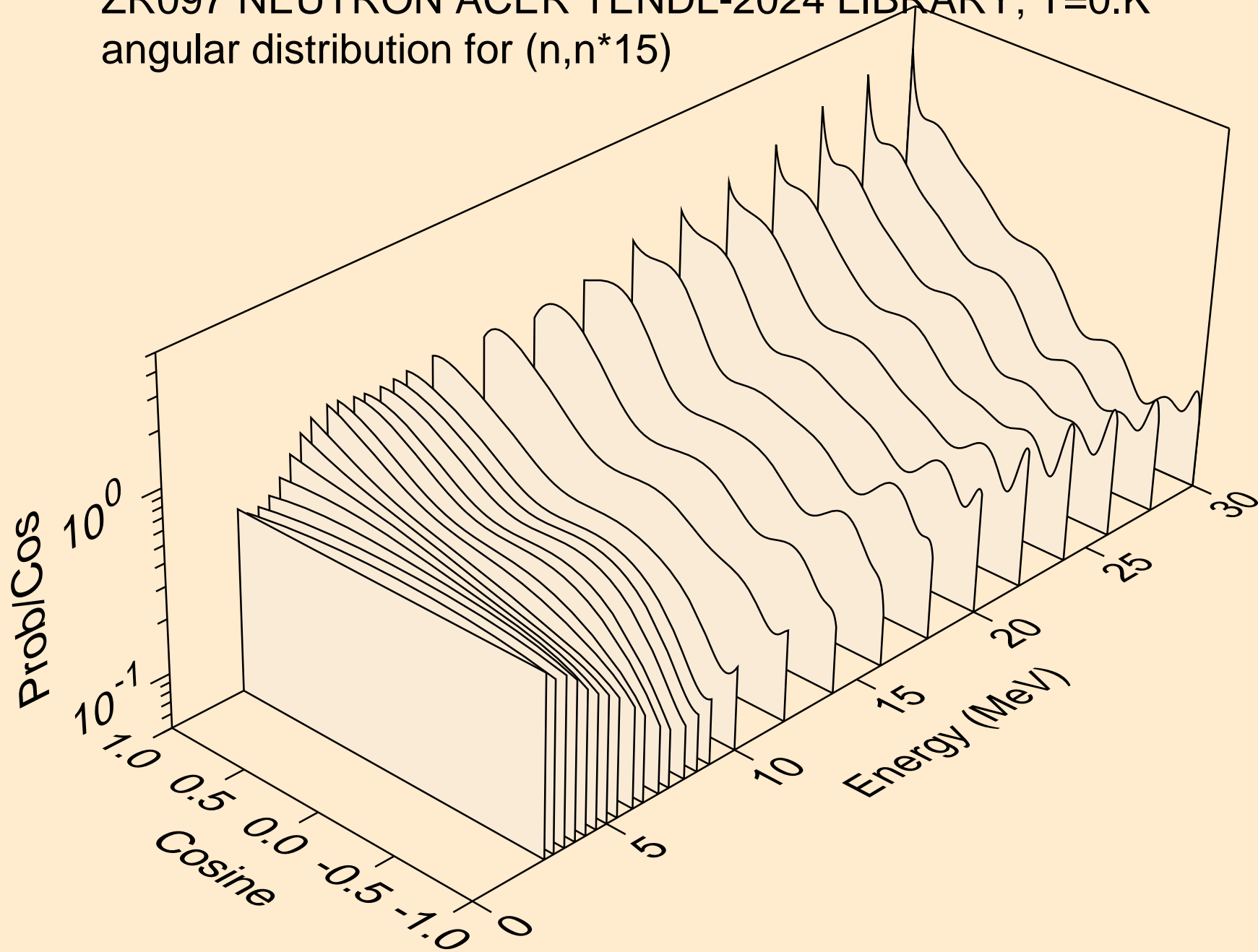
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angular distribution for (n,n\*13)



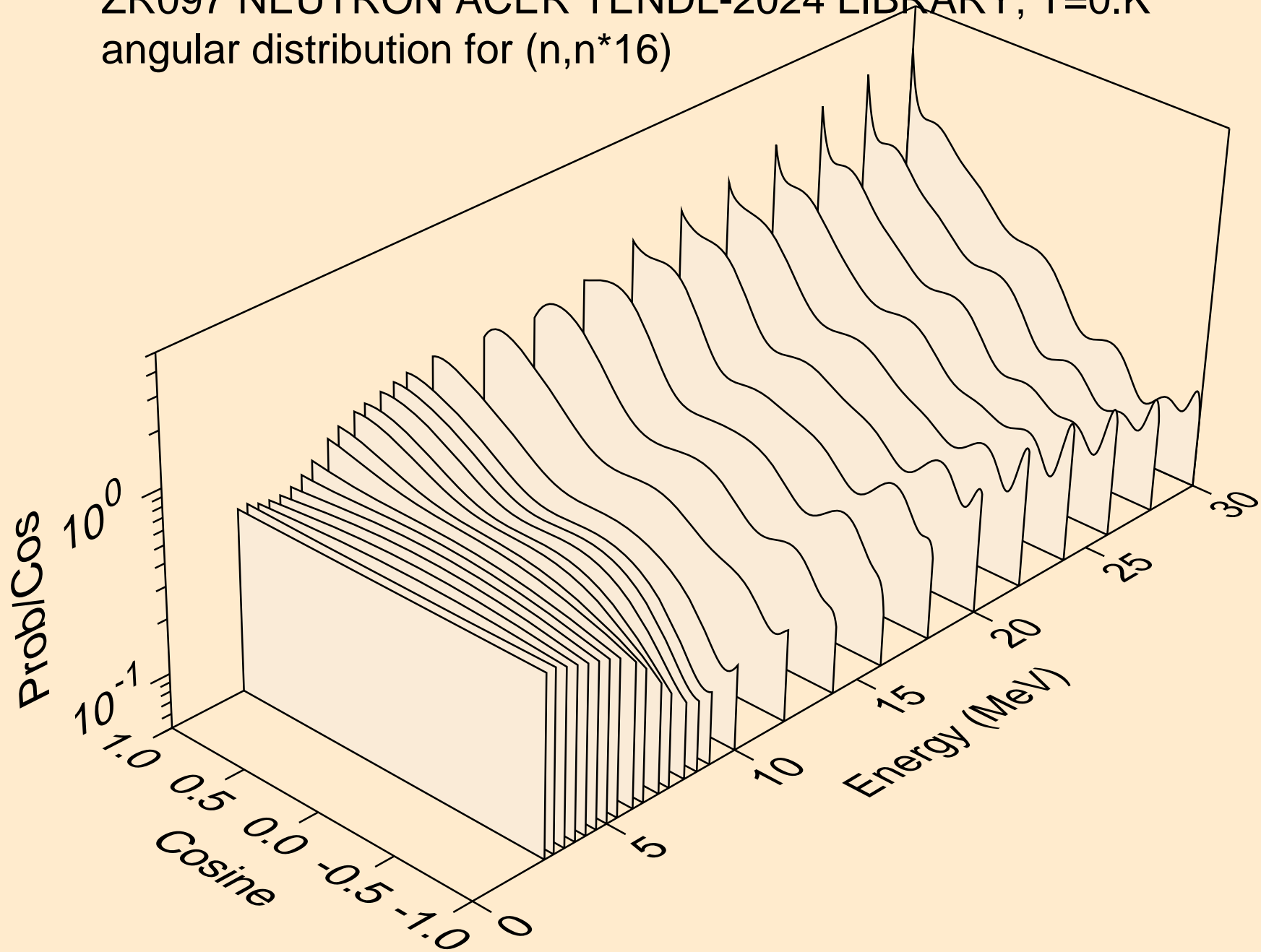
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angular distribution for (n,n\*14)



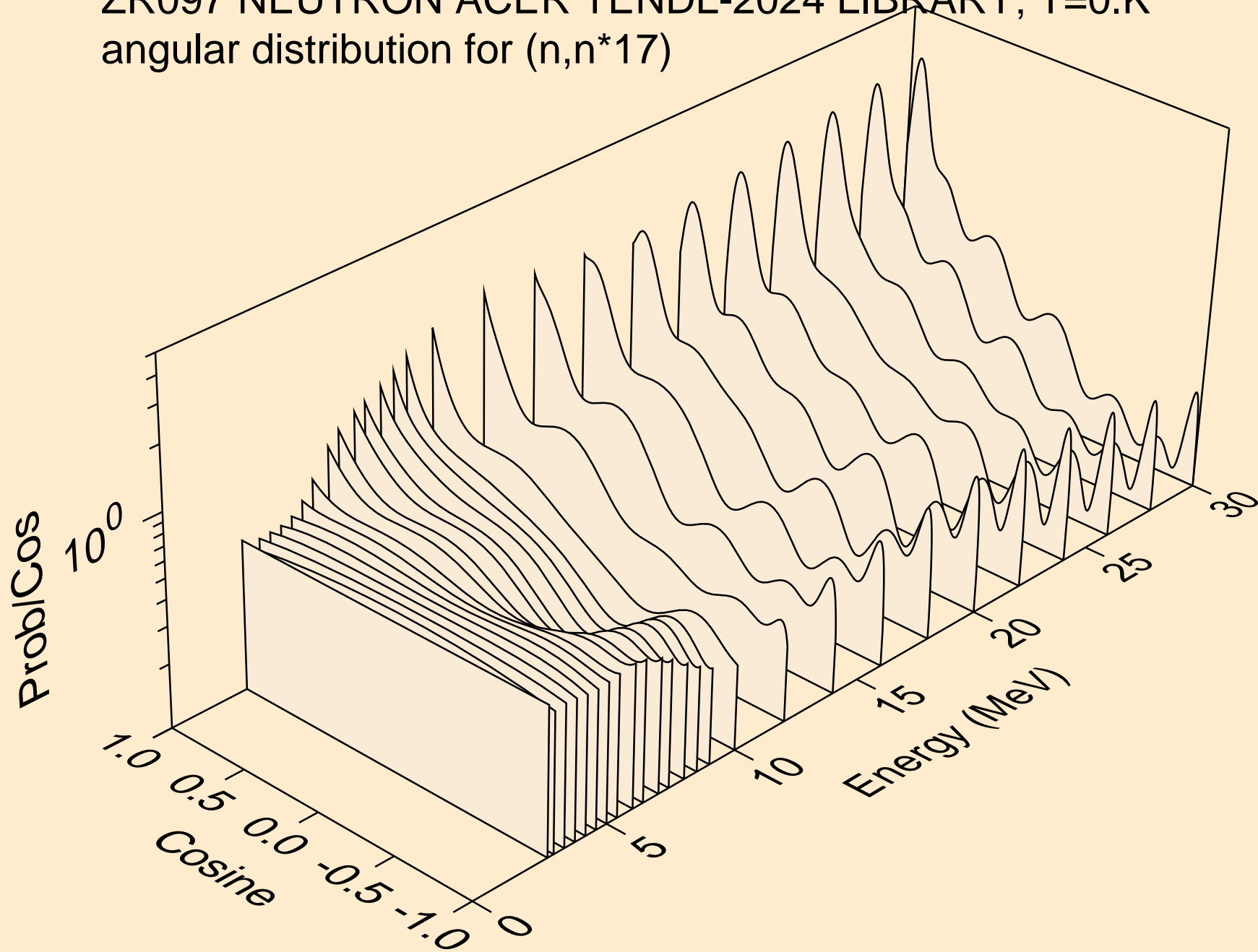
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angular distribution for (n,n\*15)



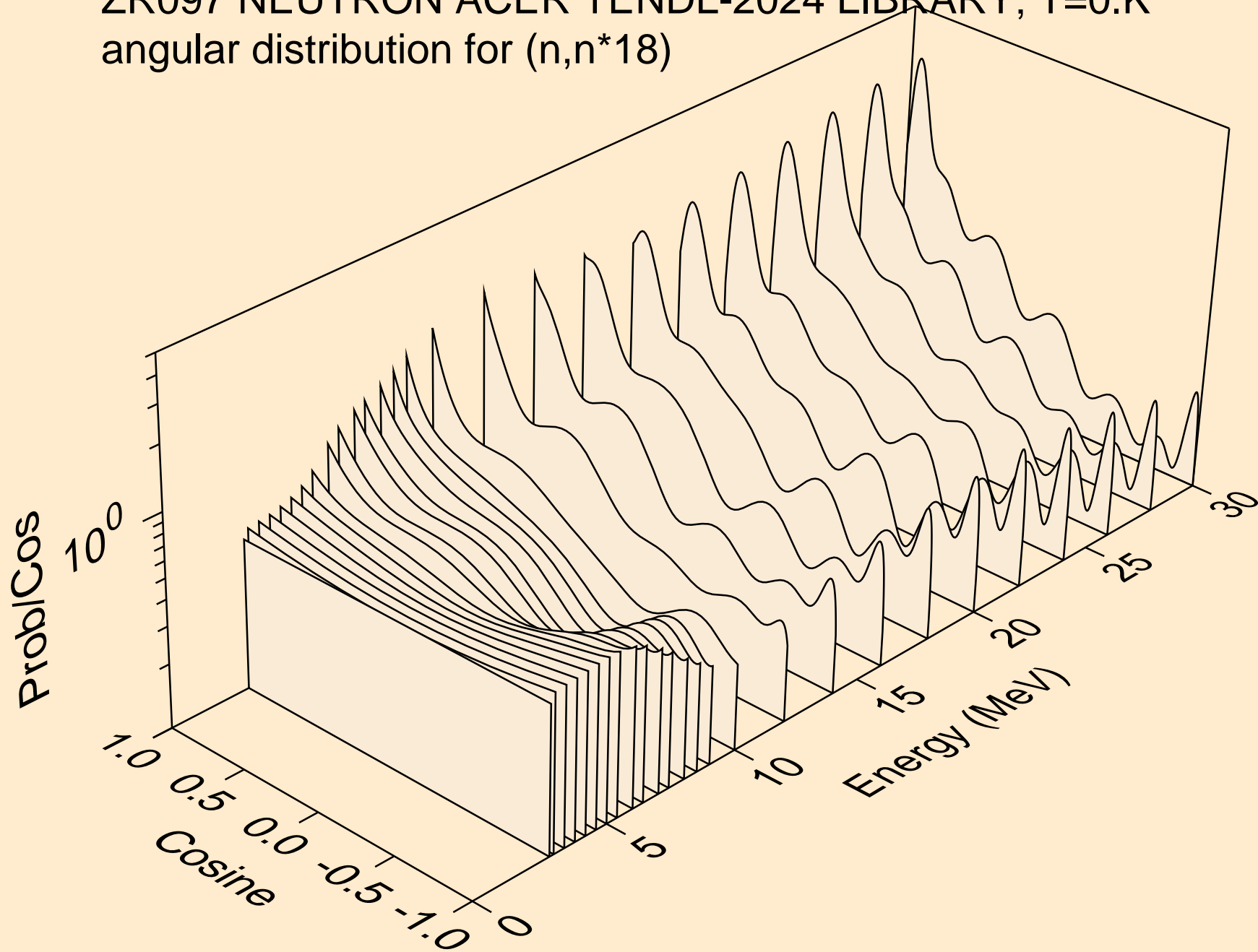
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angular distribution for (n,n\*16)



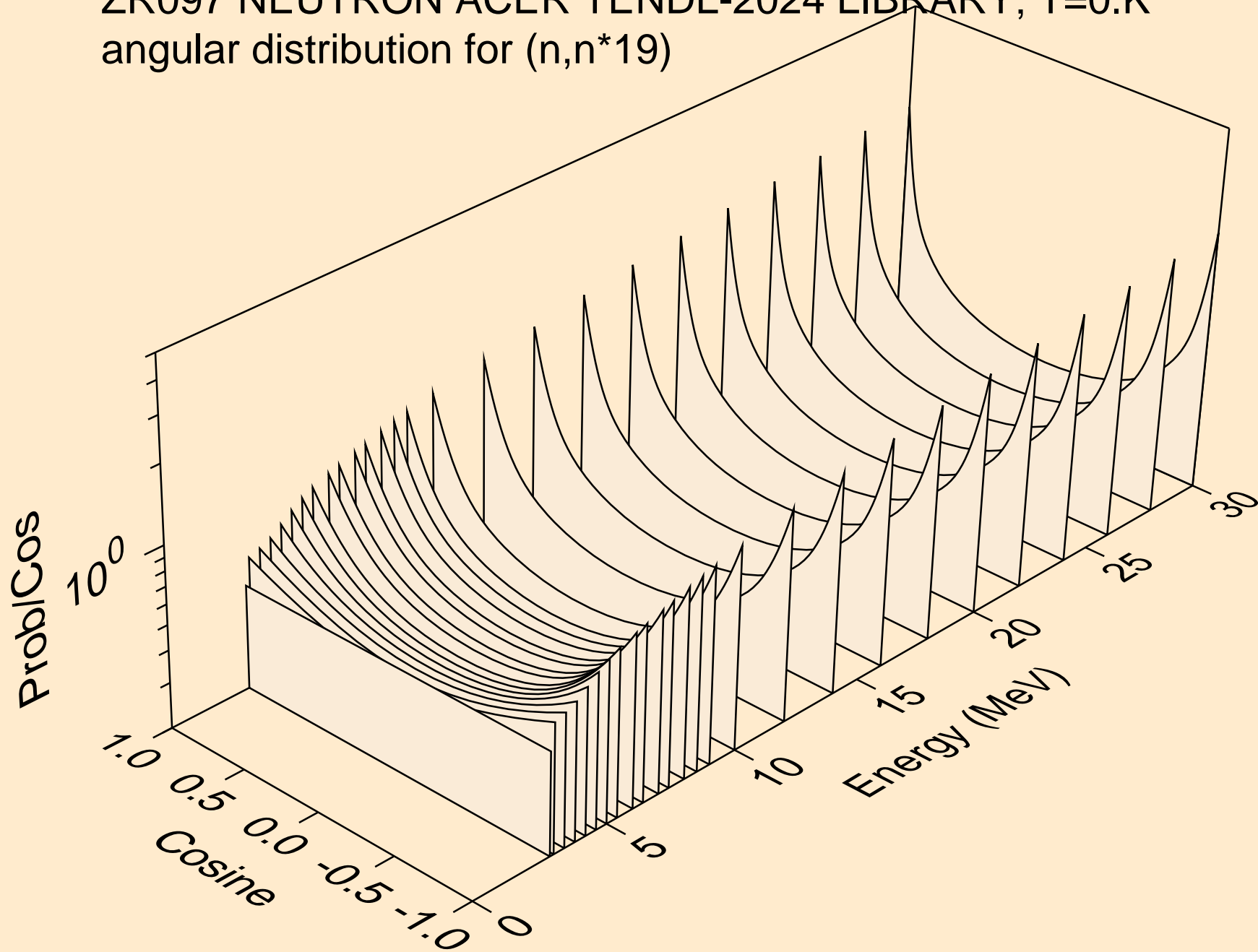
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angular distribution for (n,n\*17)



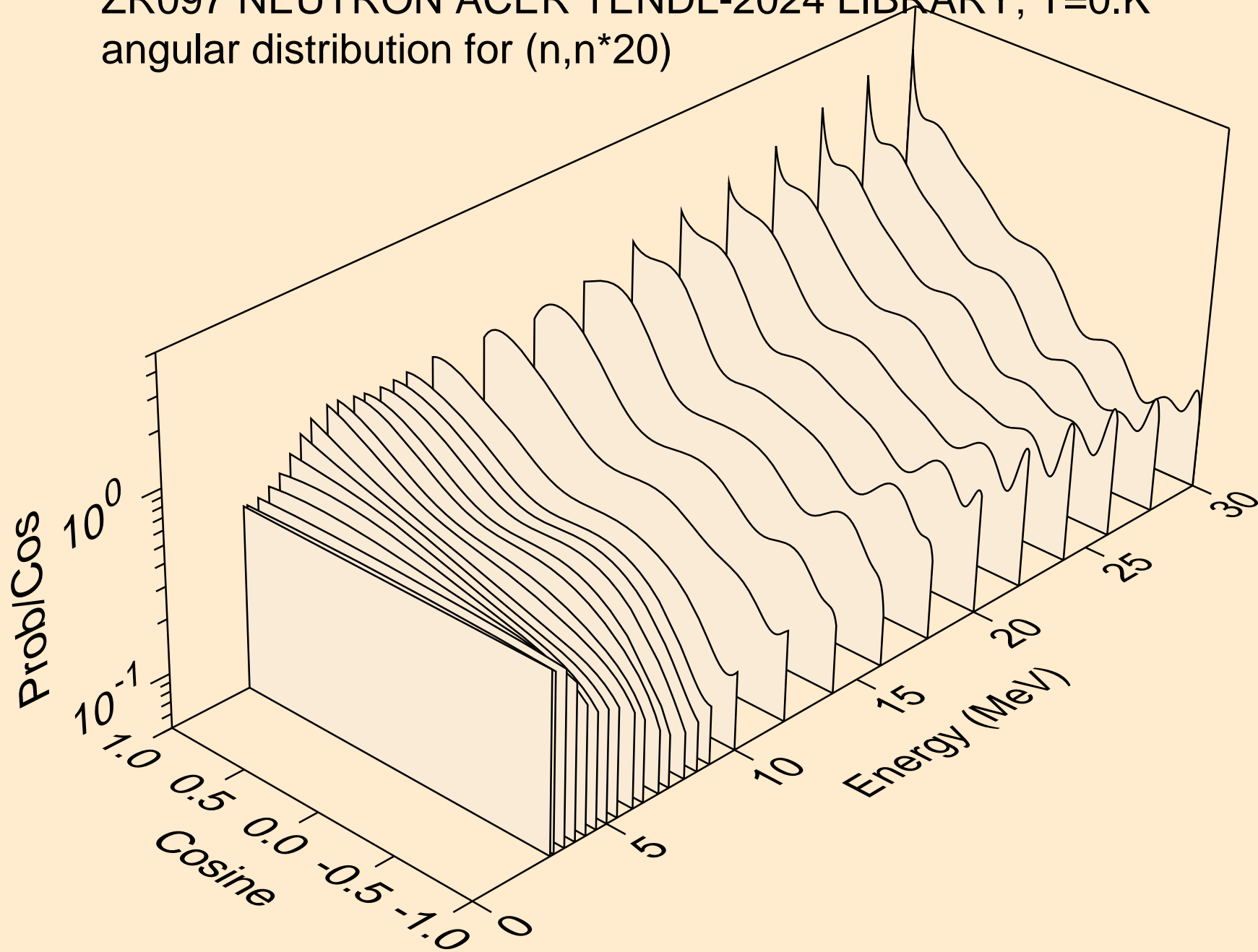
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*18)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*19)

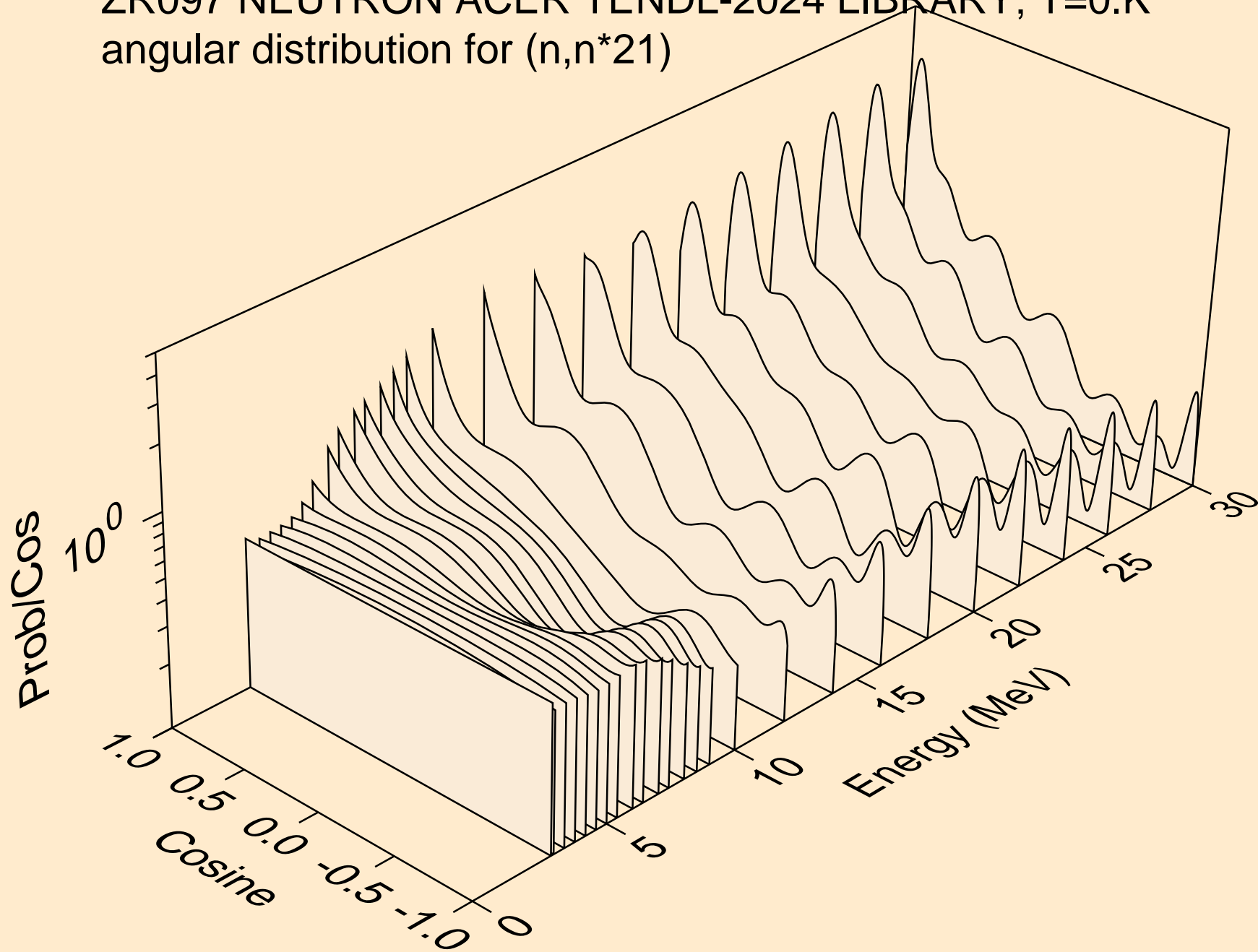


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angular distribution for (n,n\*20)

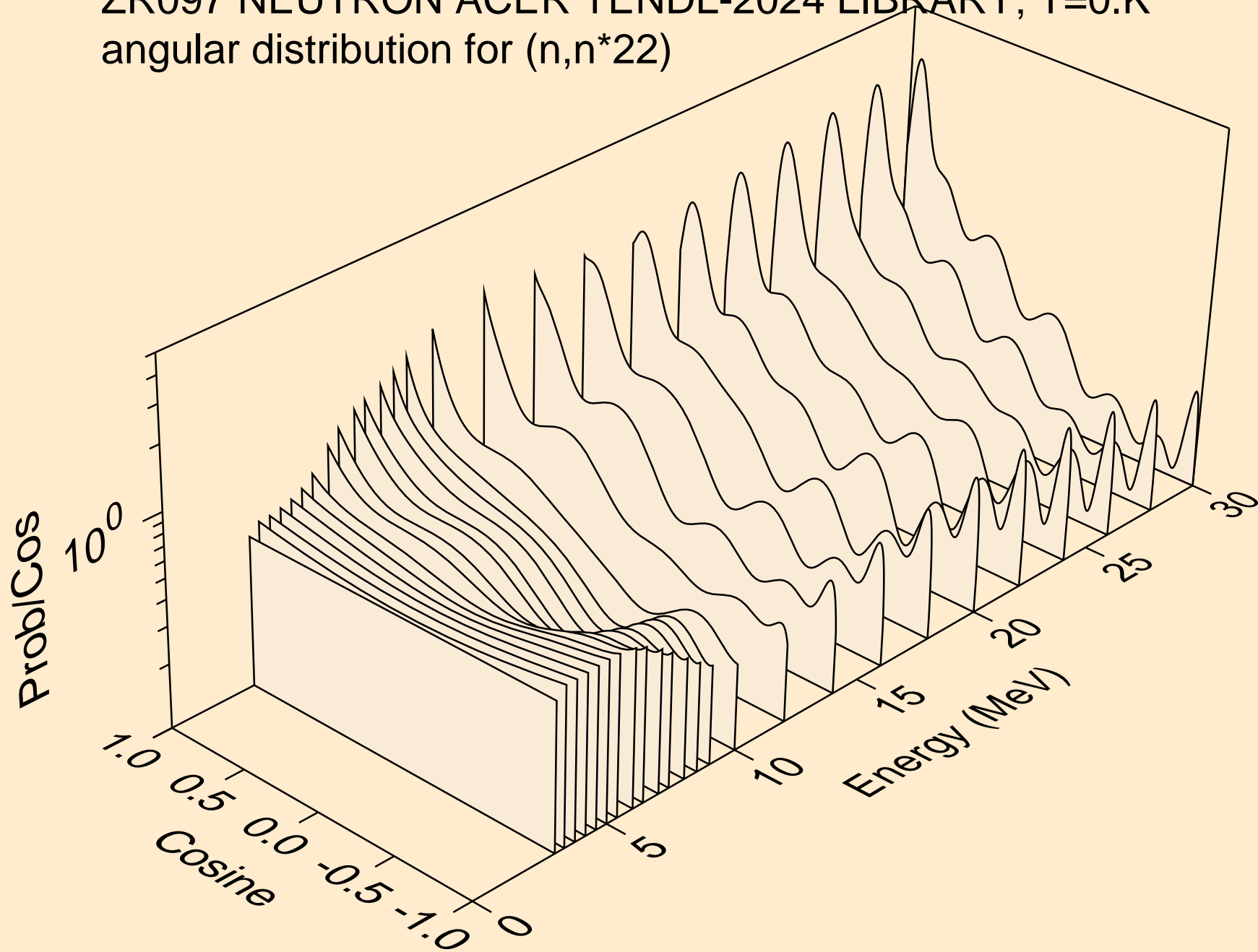




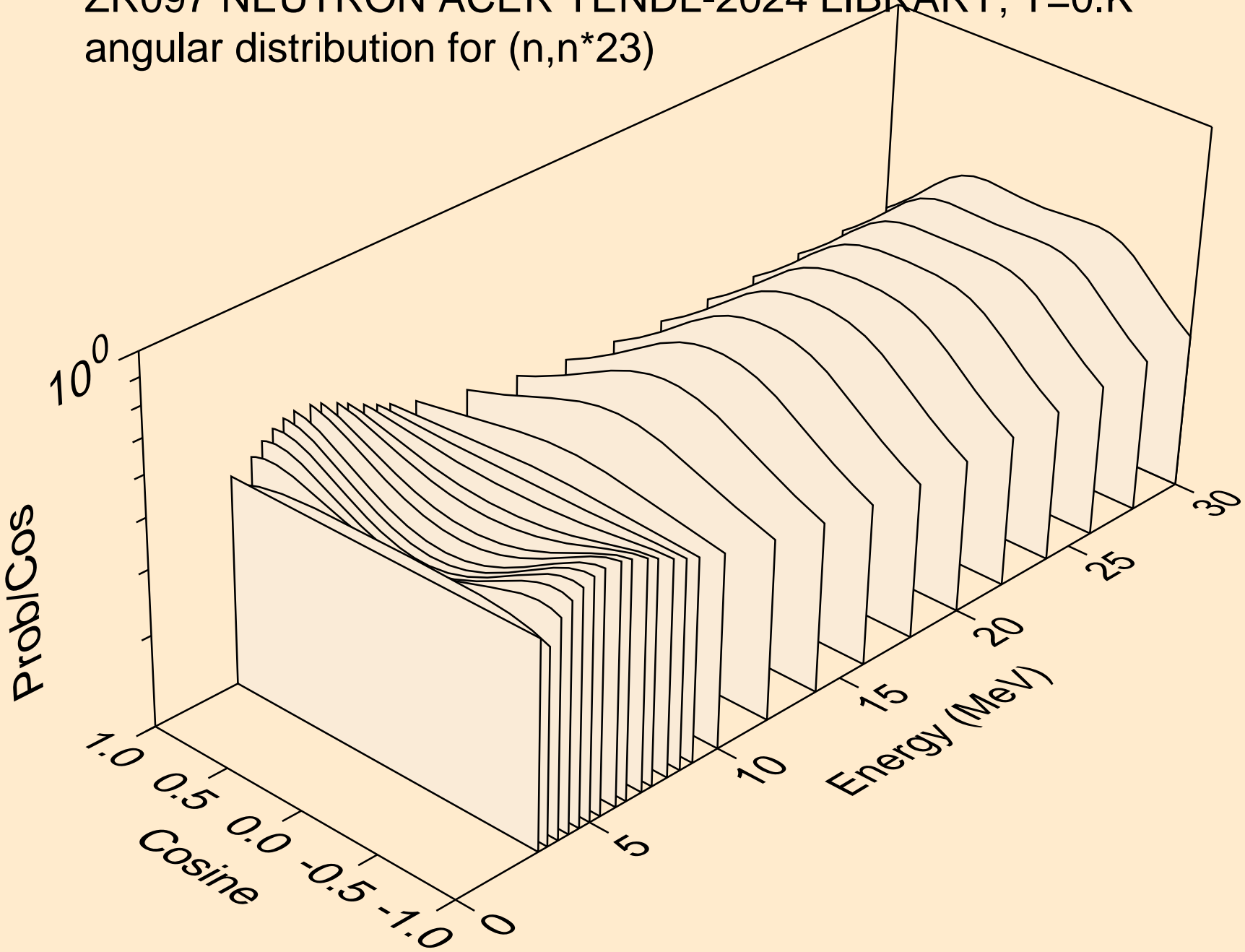
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angular distribution for (n,n\*21)



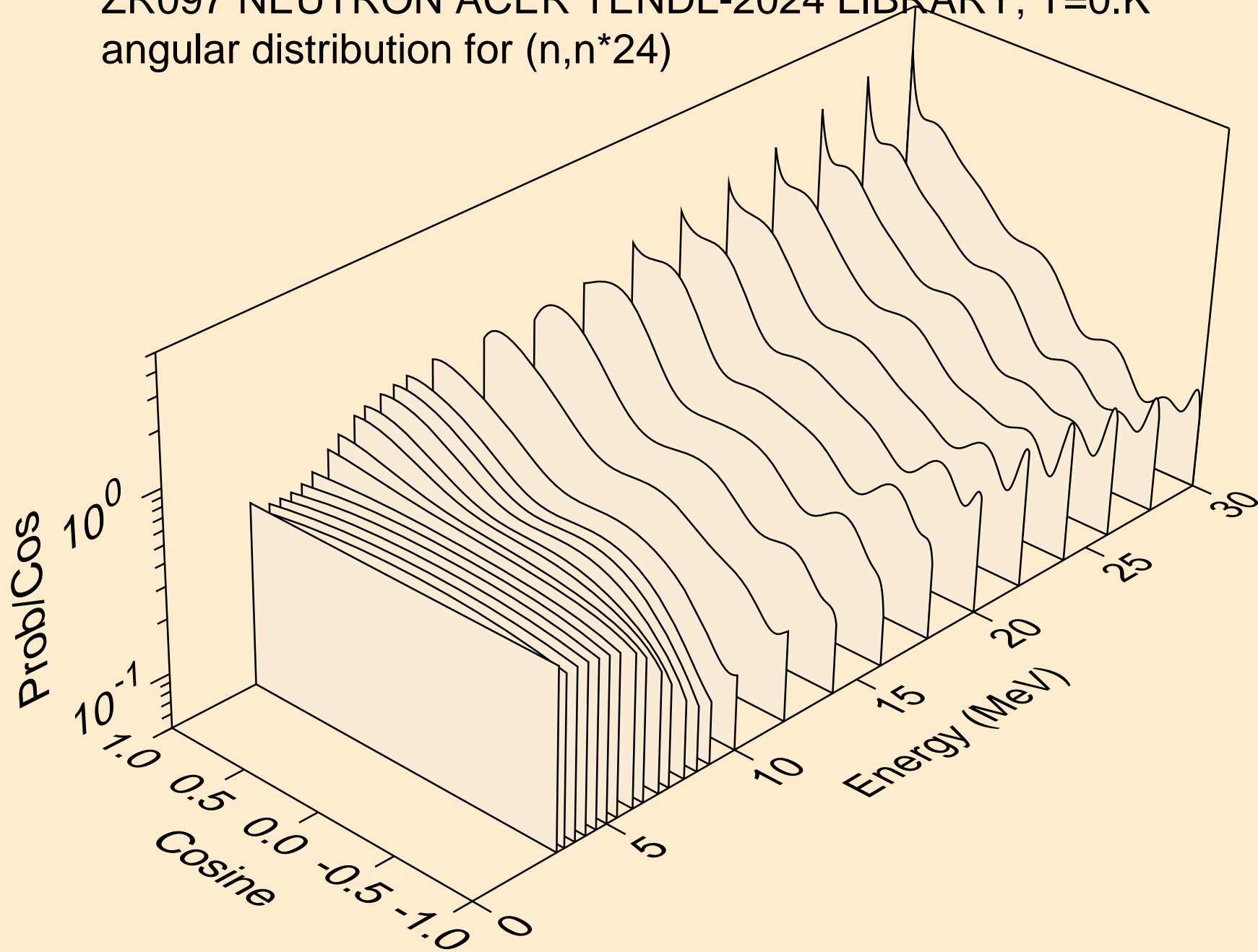
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angular distribution for (n,n\*22)



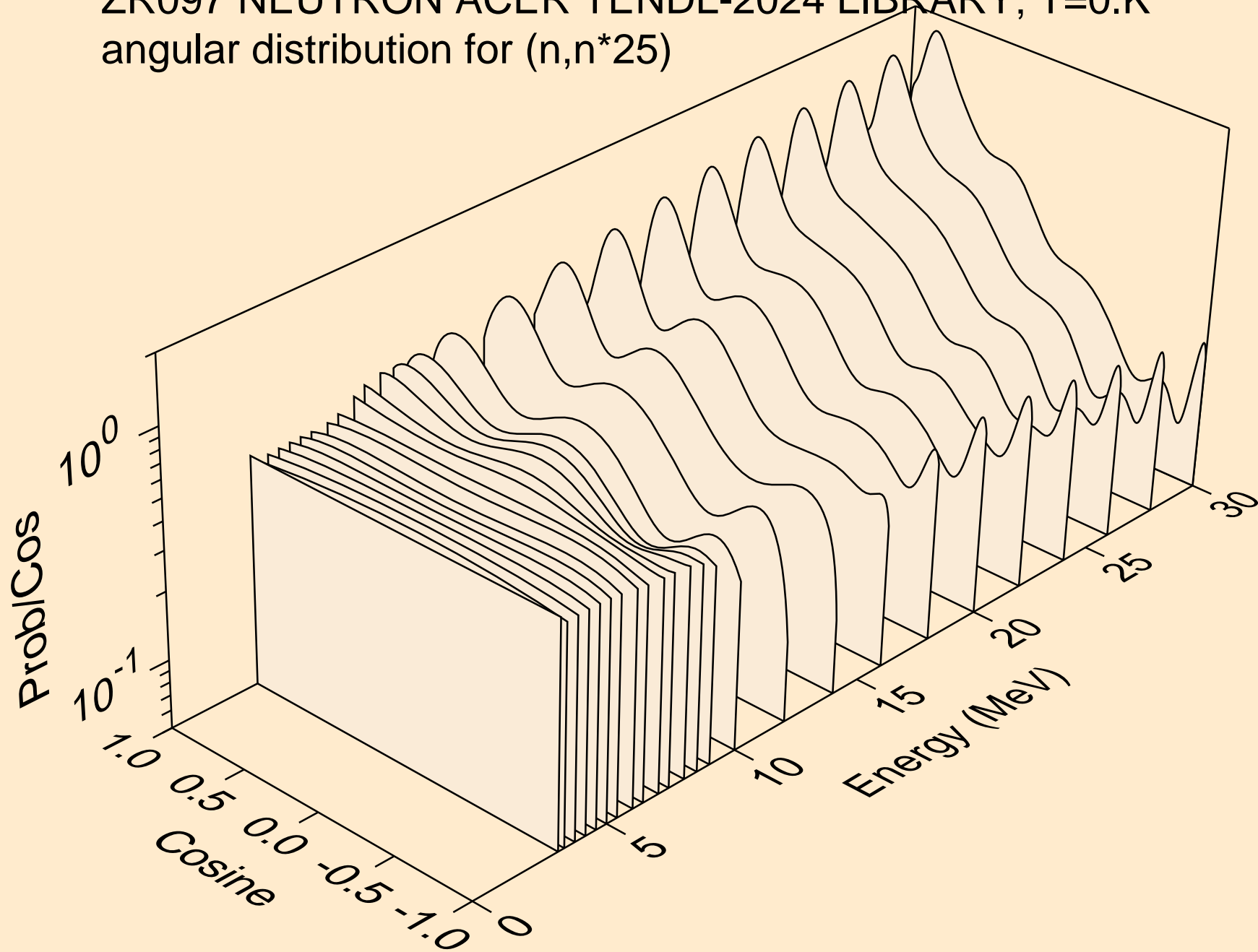
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angular distribution for (n,n\*23)



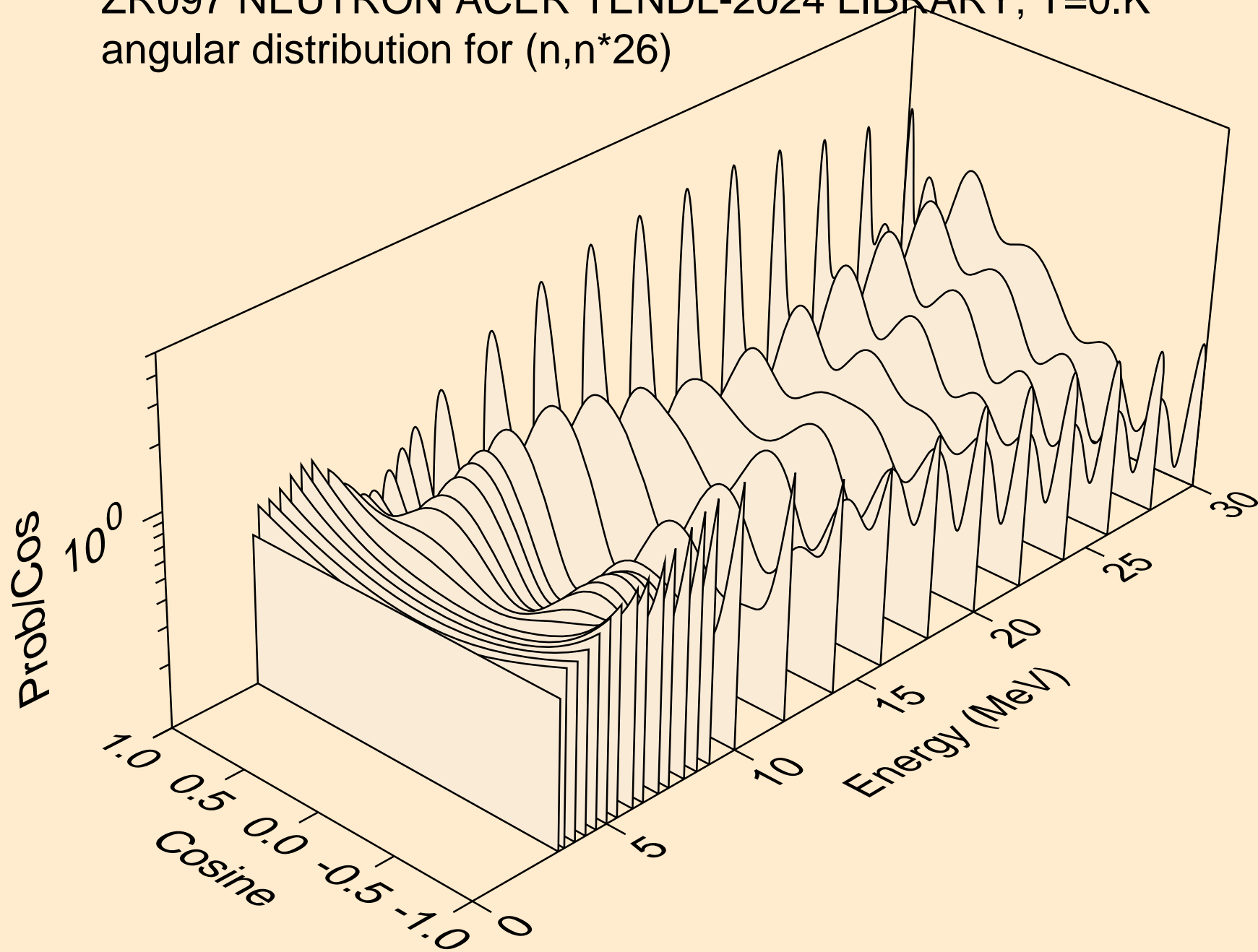
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)



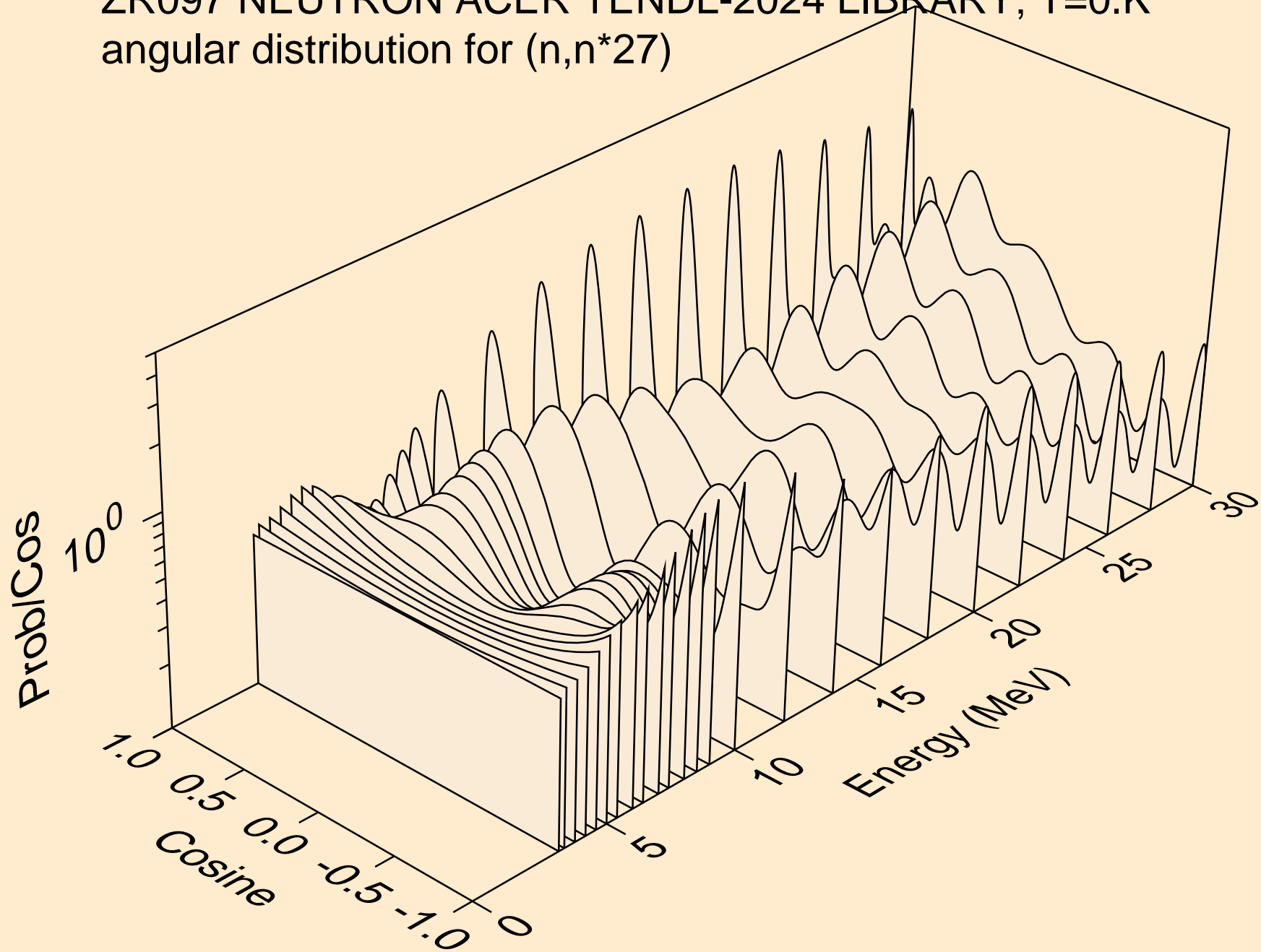
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



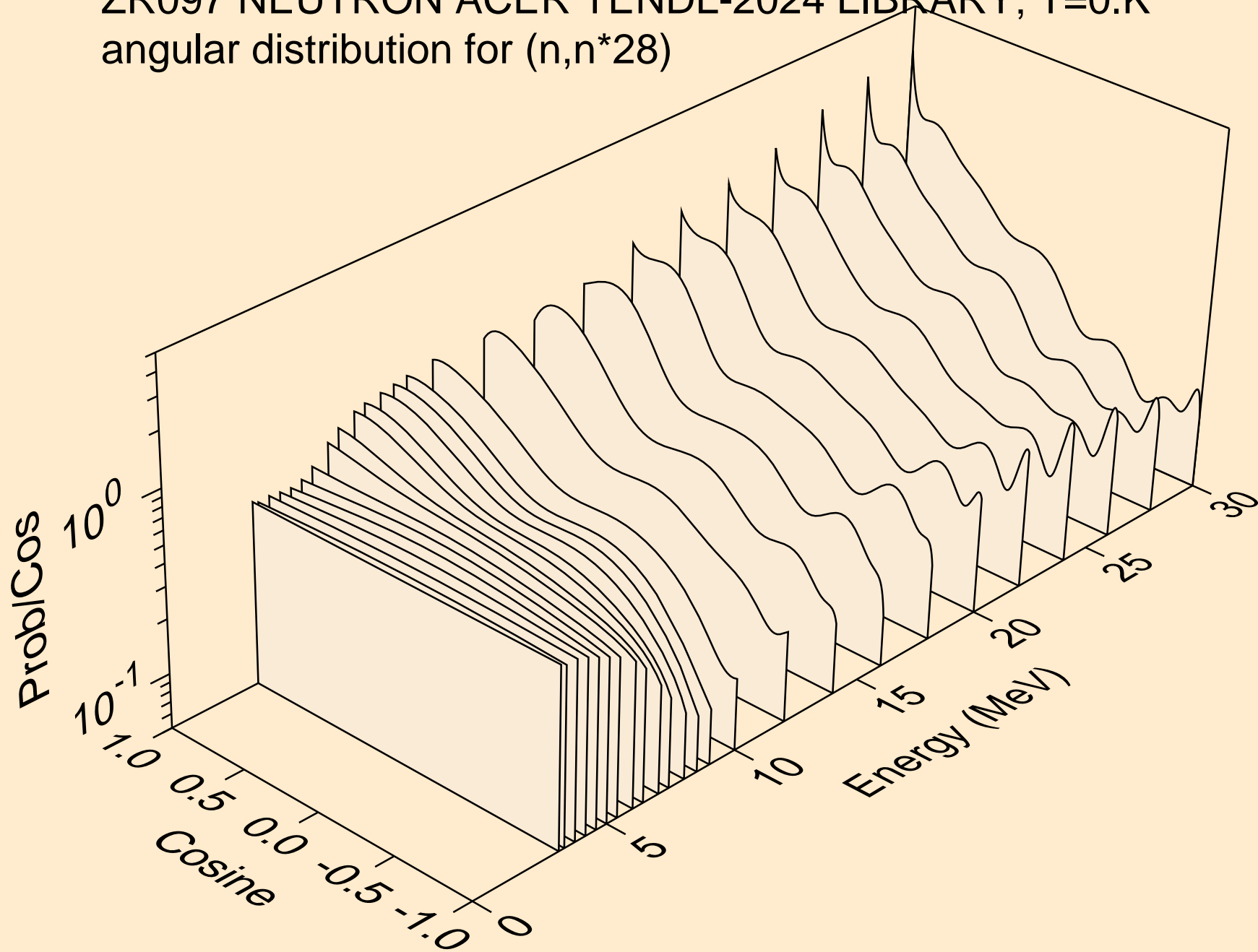
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)

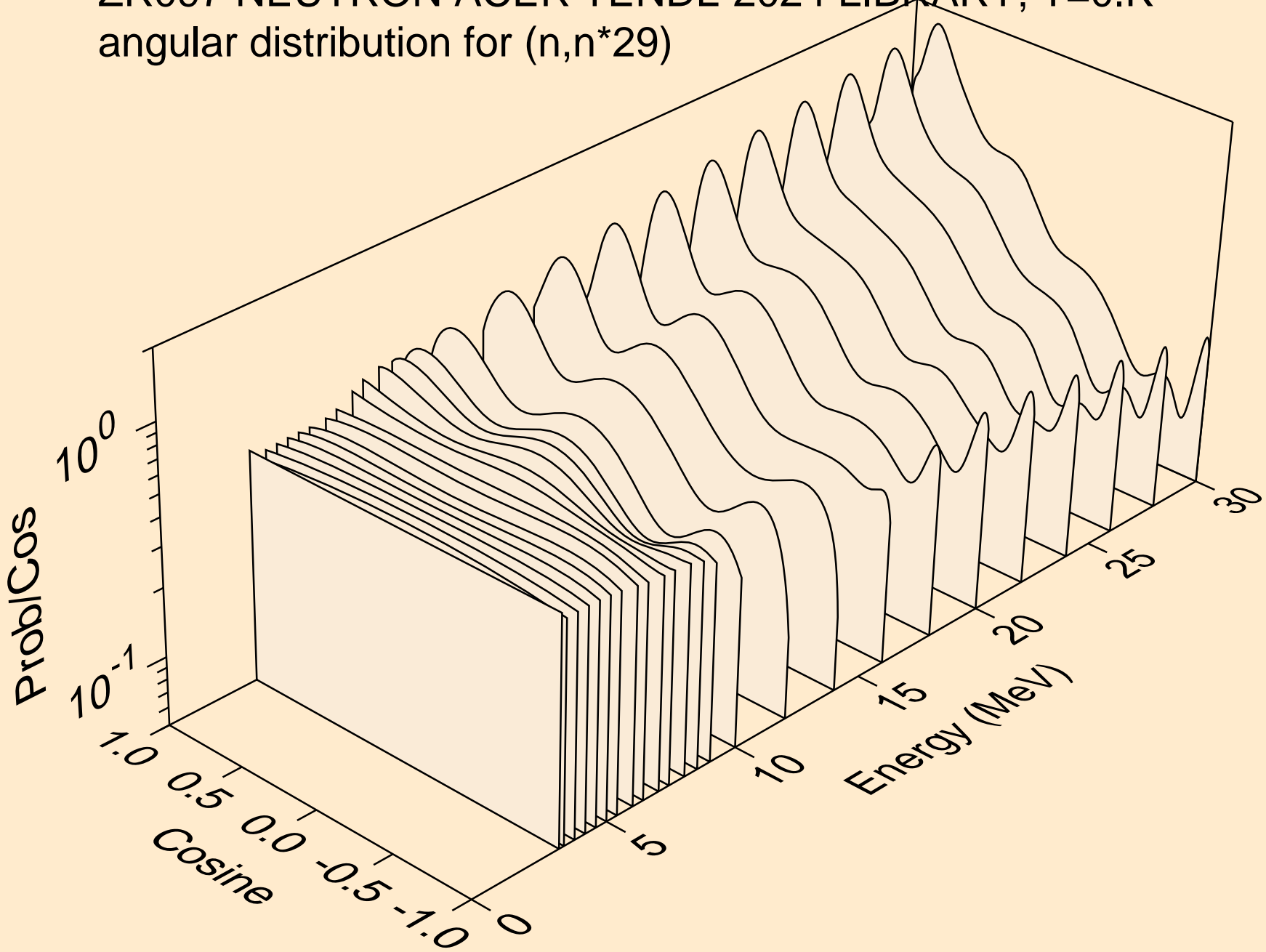


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)

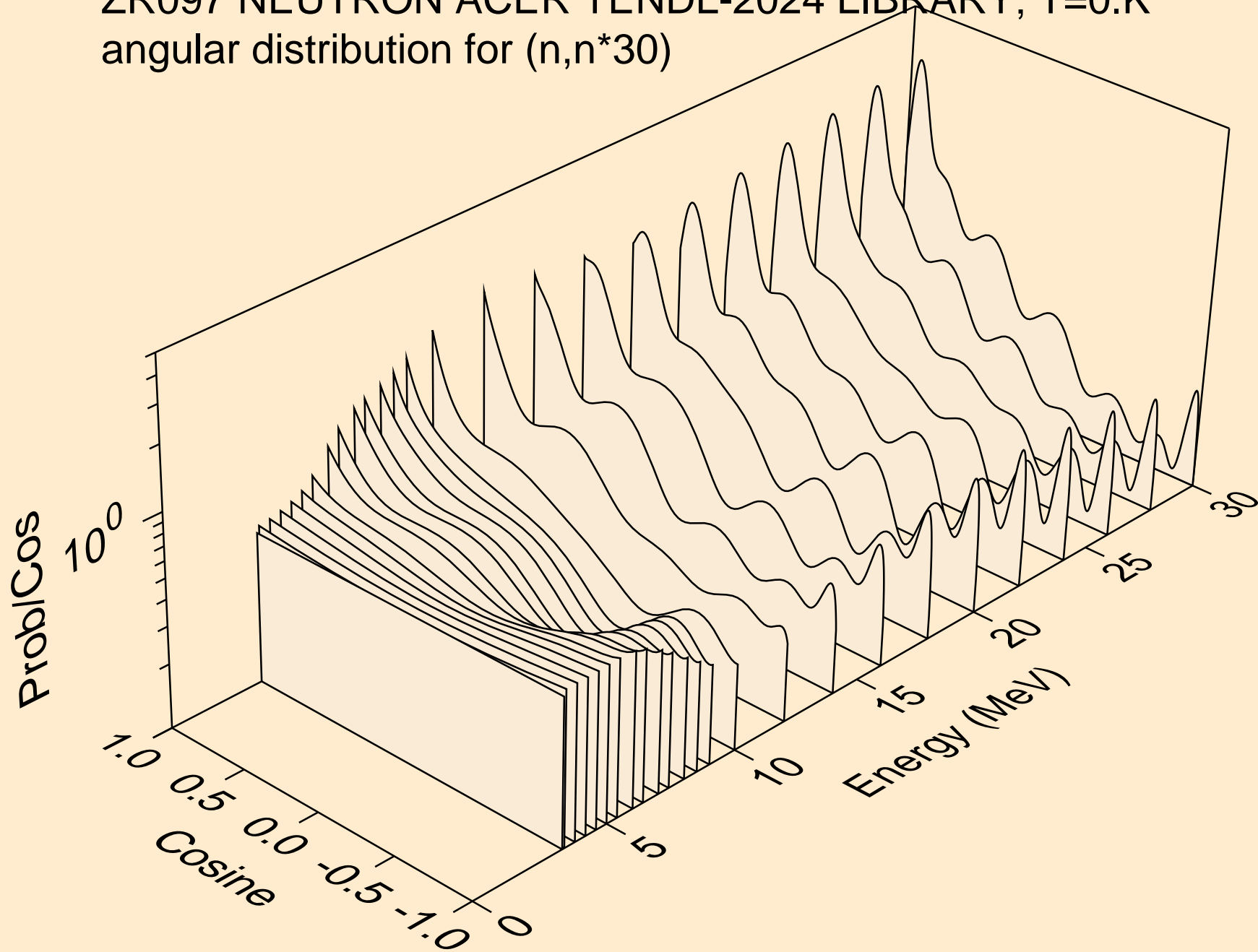




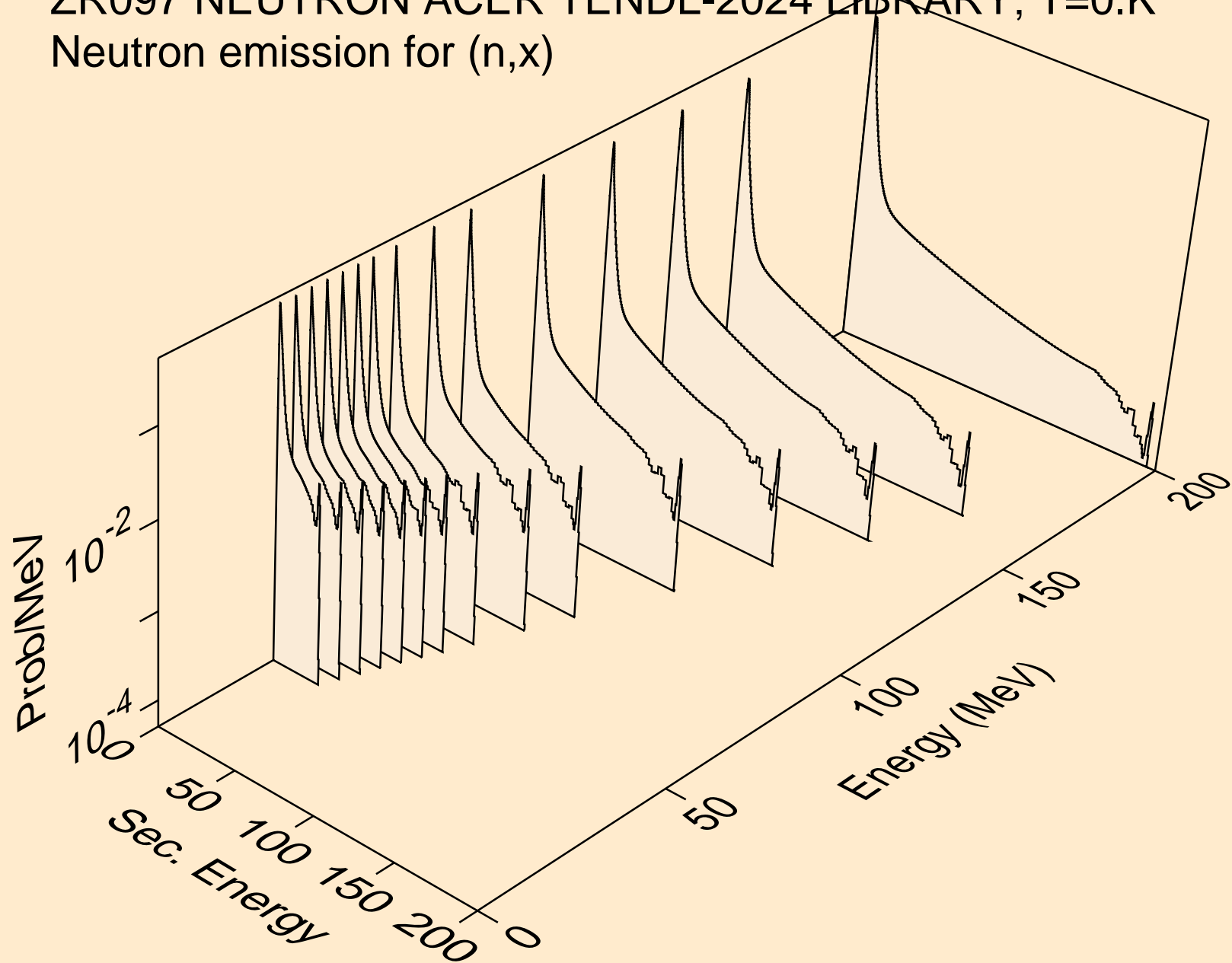
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angular distribution for (n,n\*29)



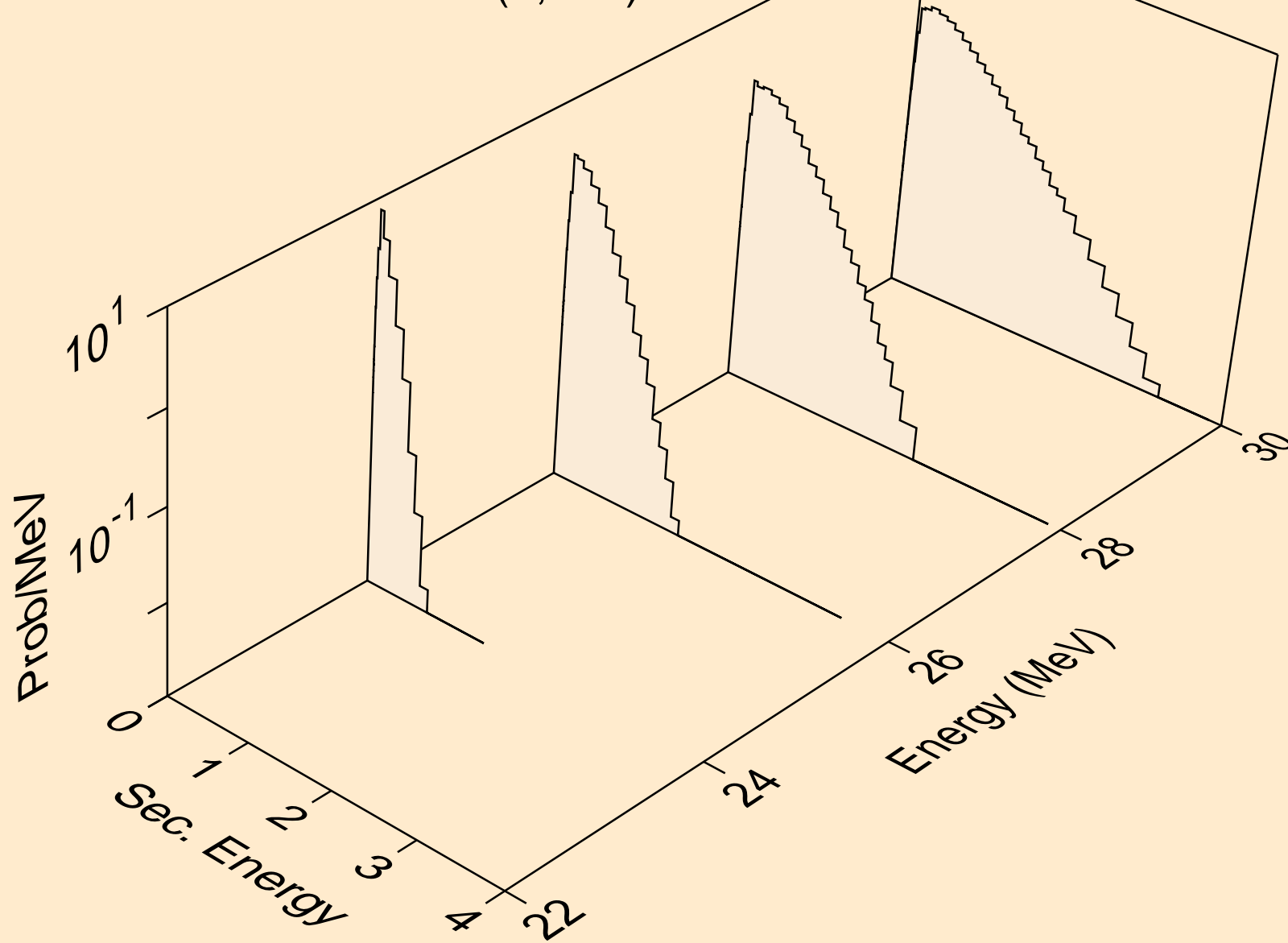
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angular distribution for (n,n\*30)



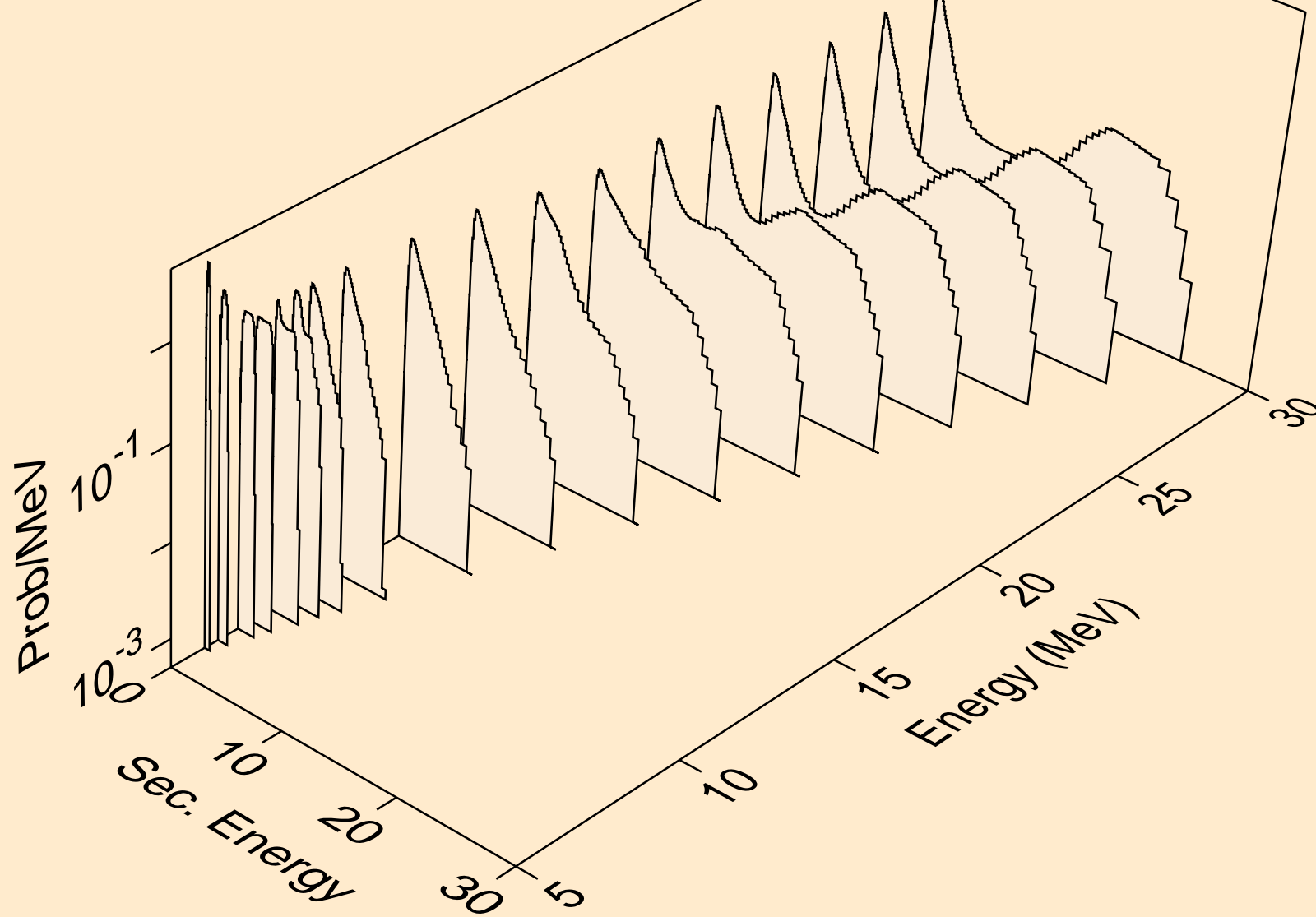
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



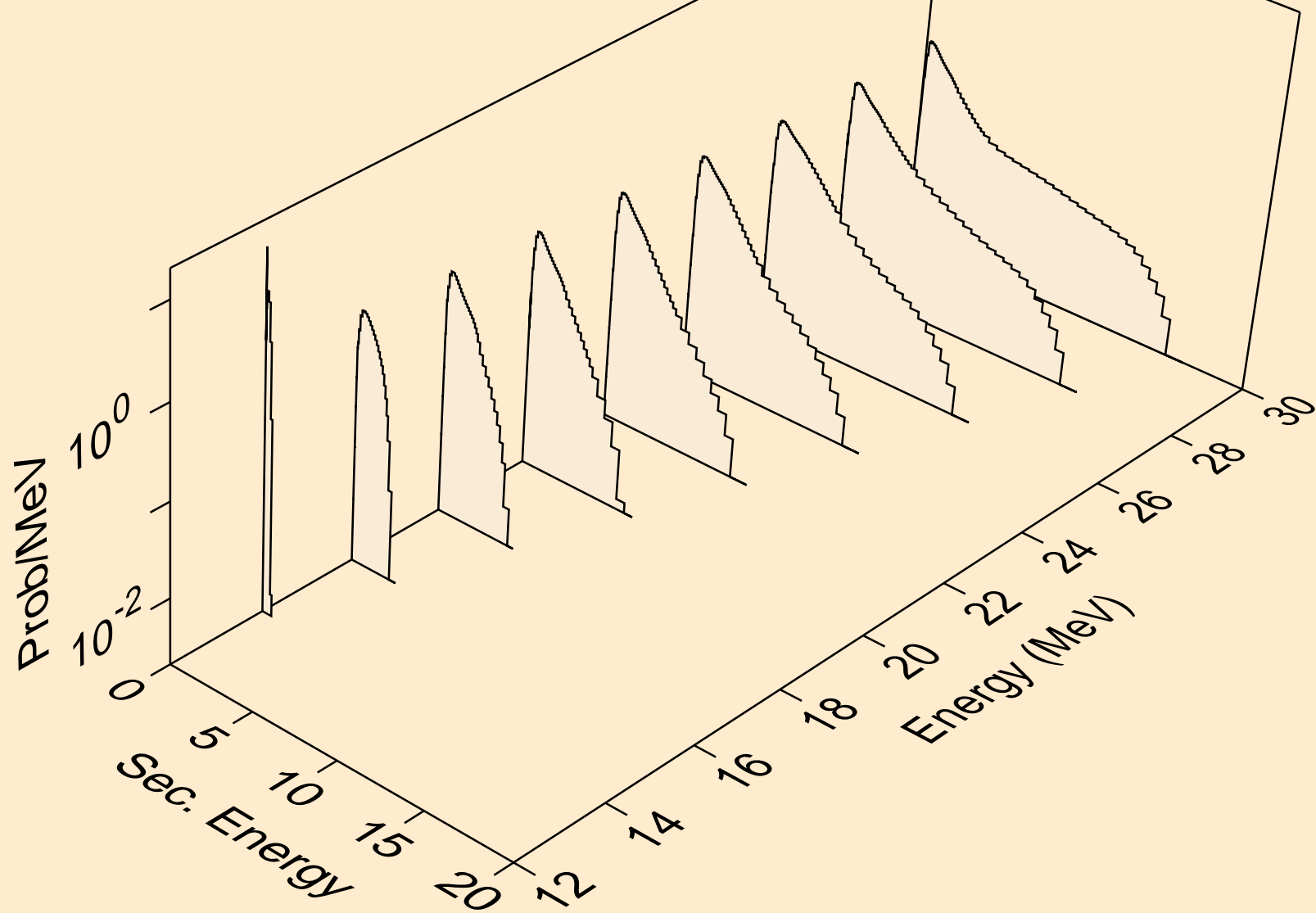
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



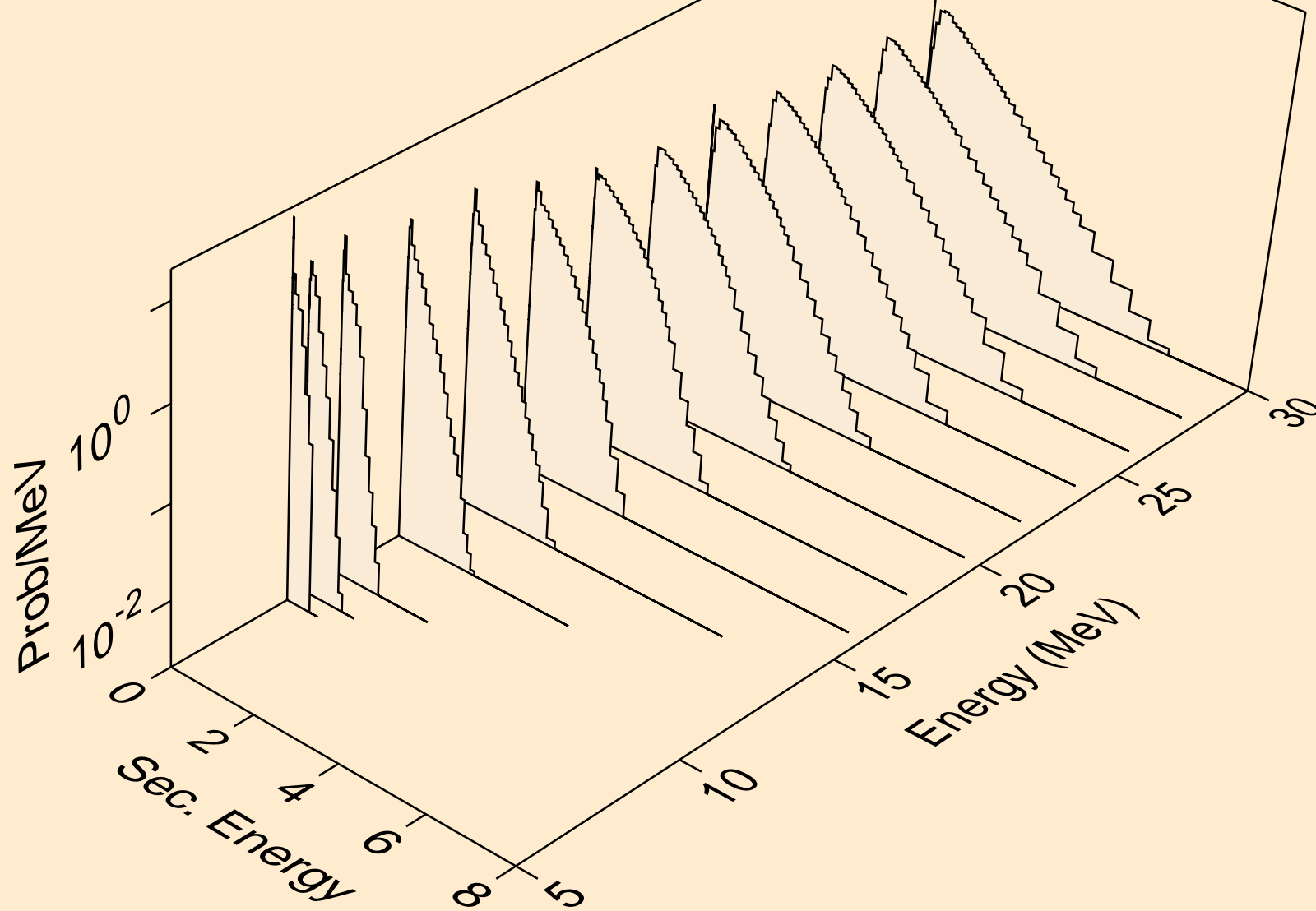
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



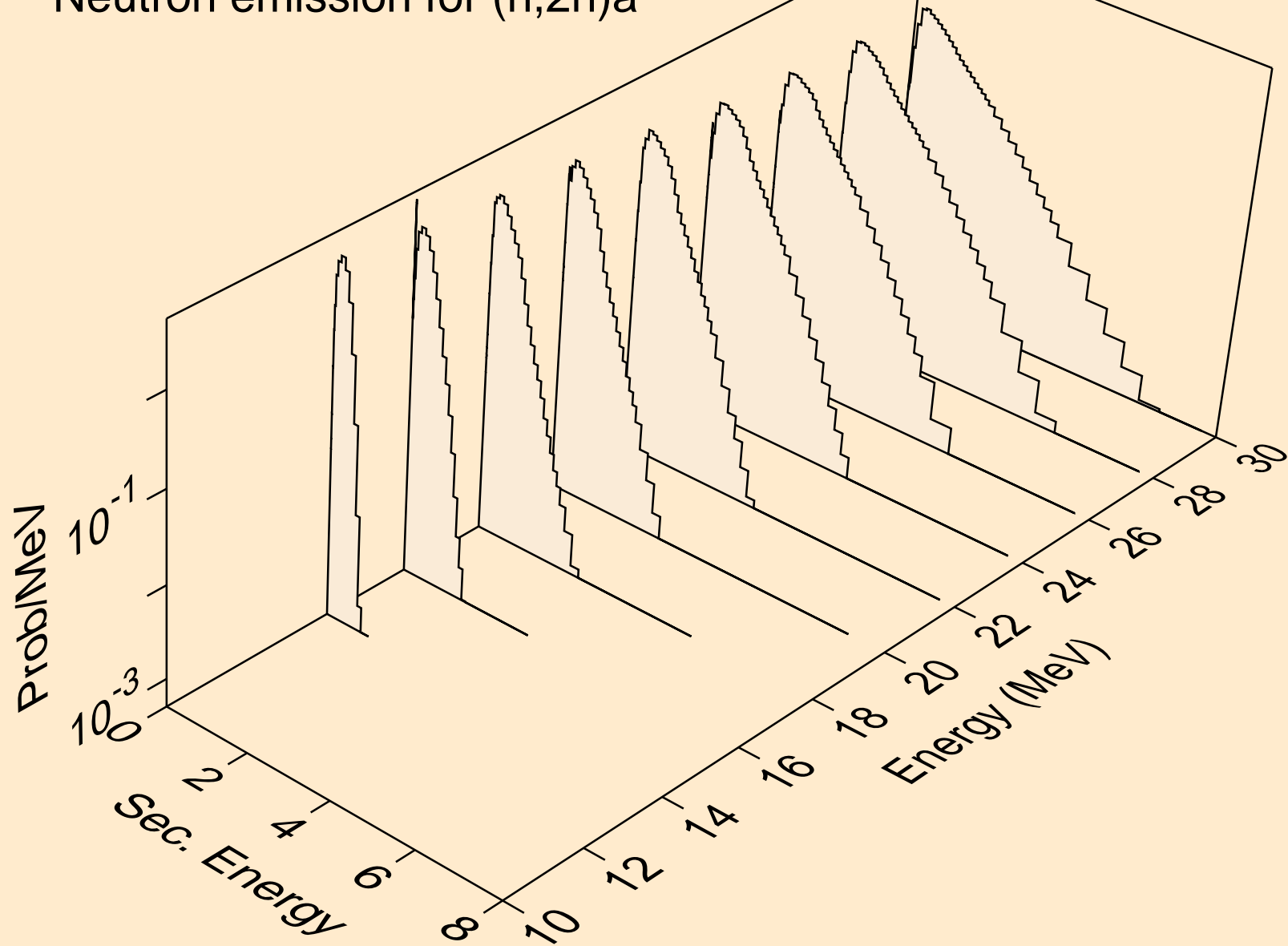
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

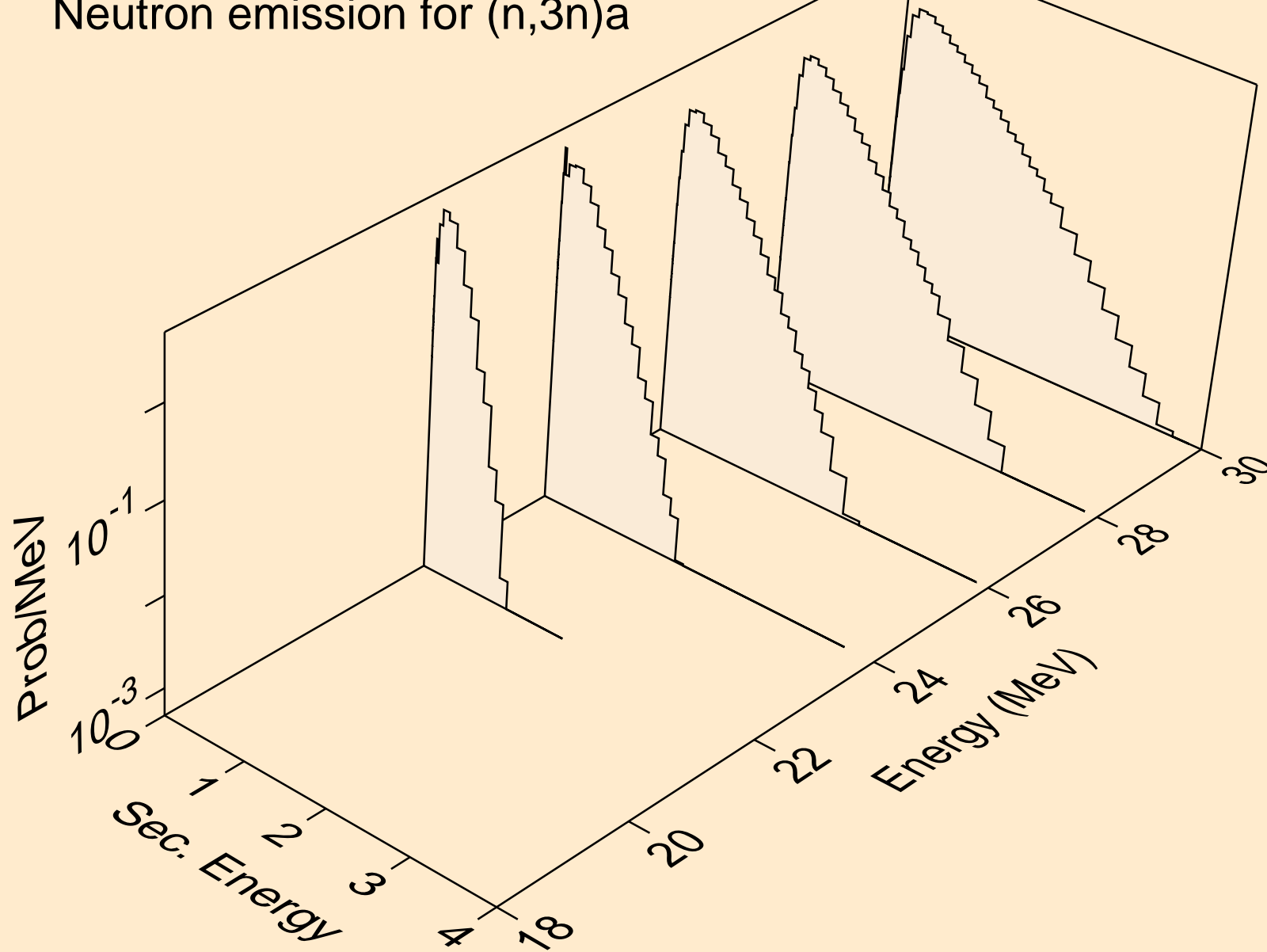


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

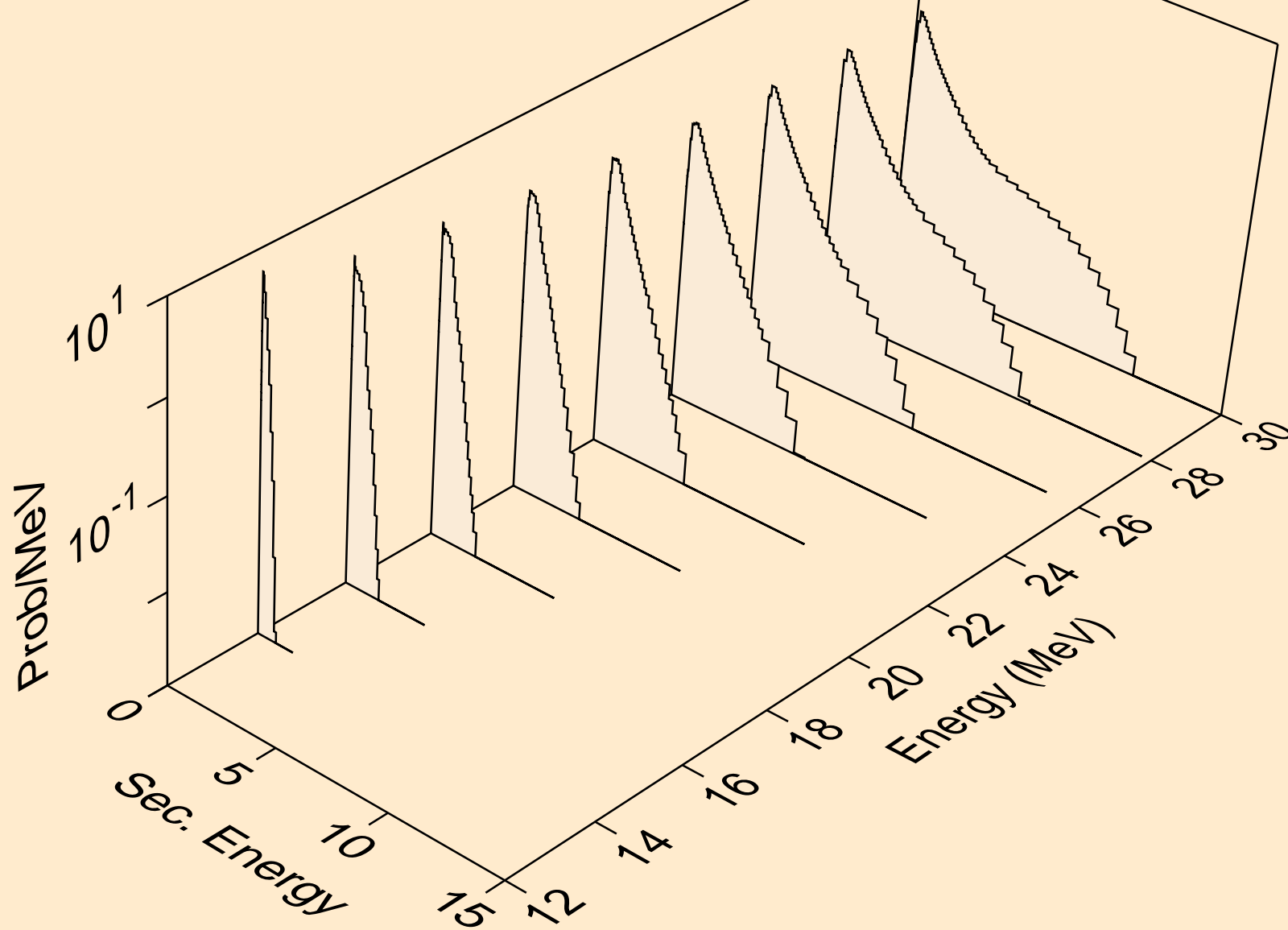




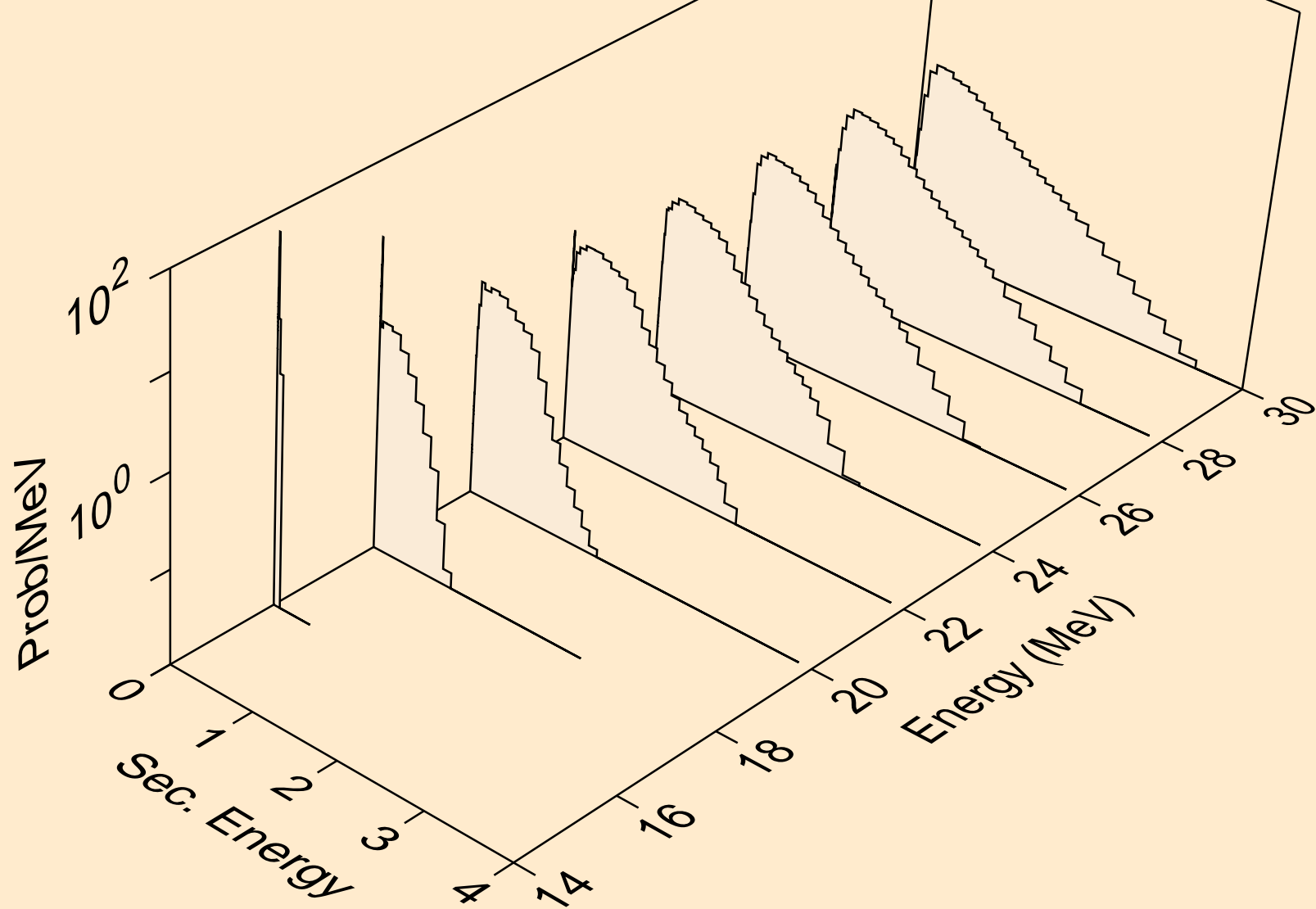
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



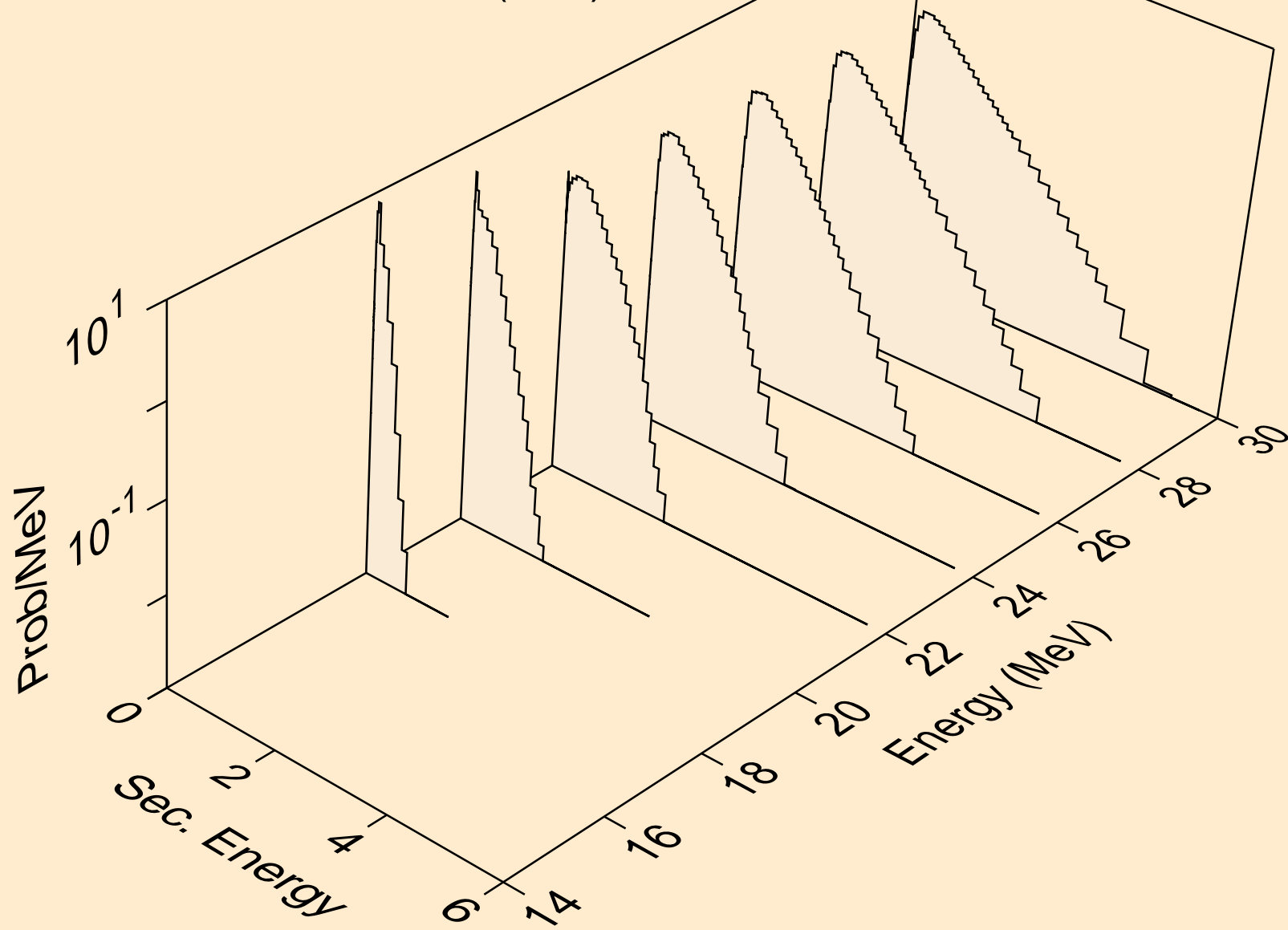
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



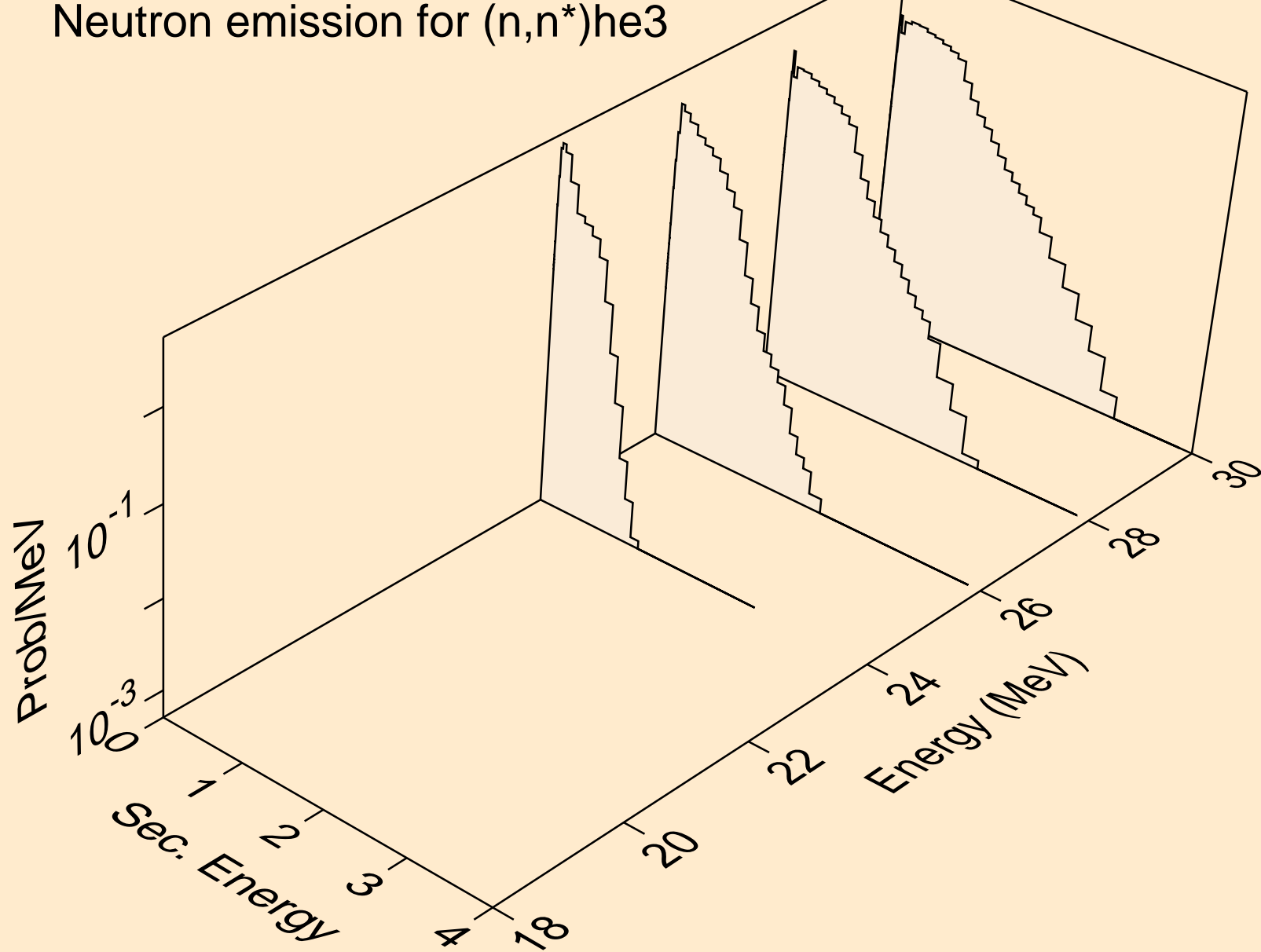
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



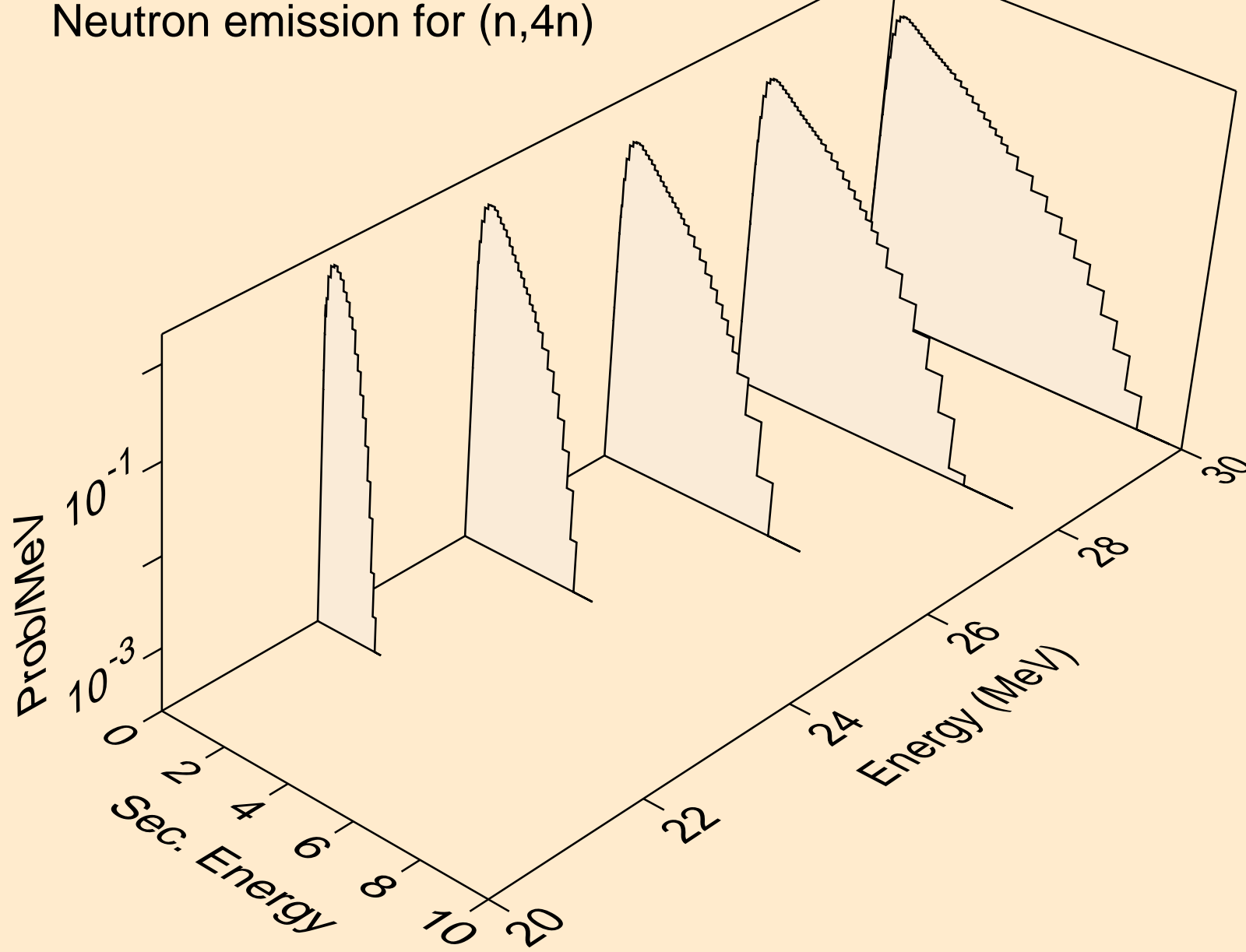
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



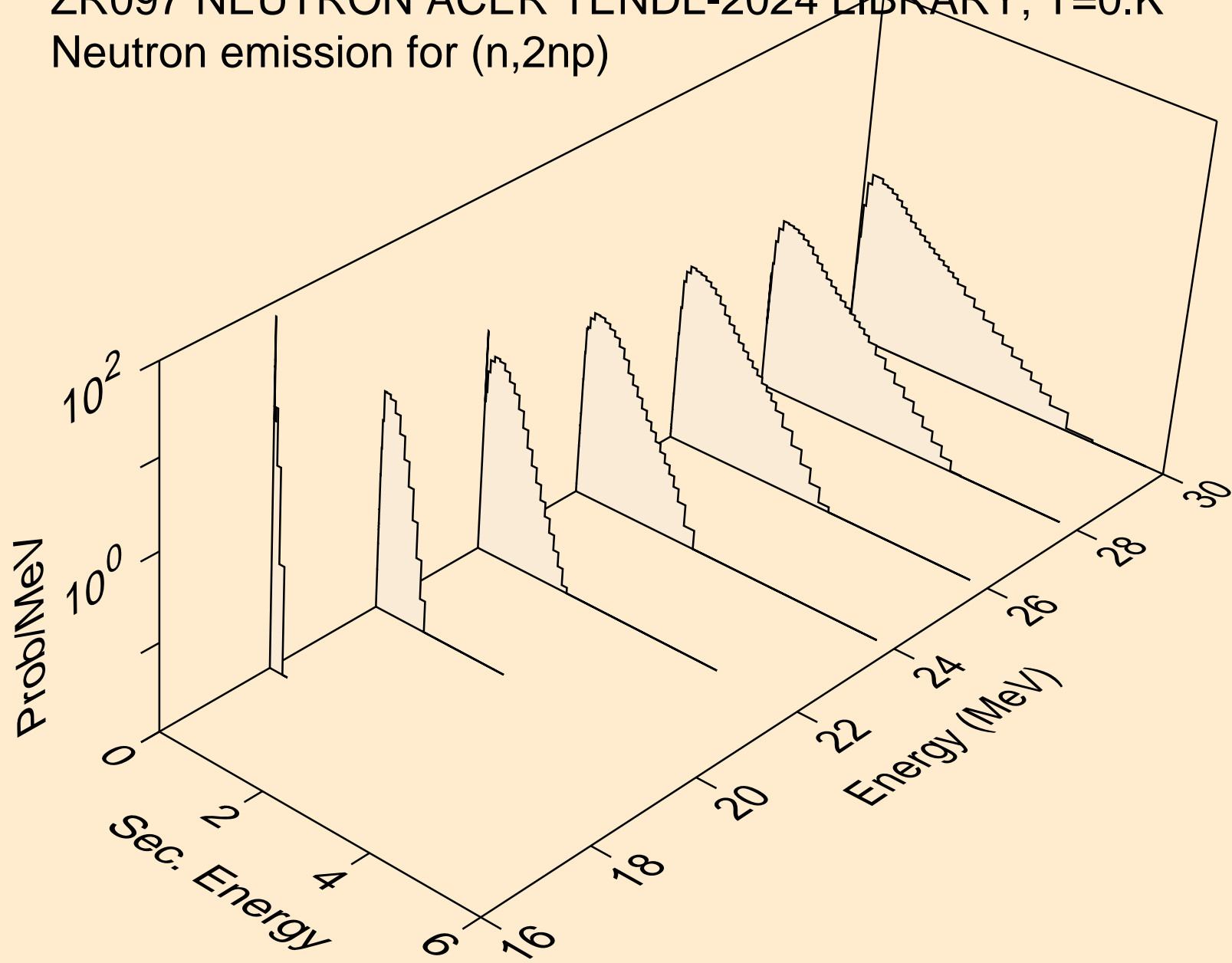
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



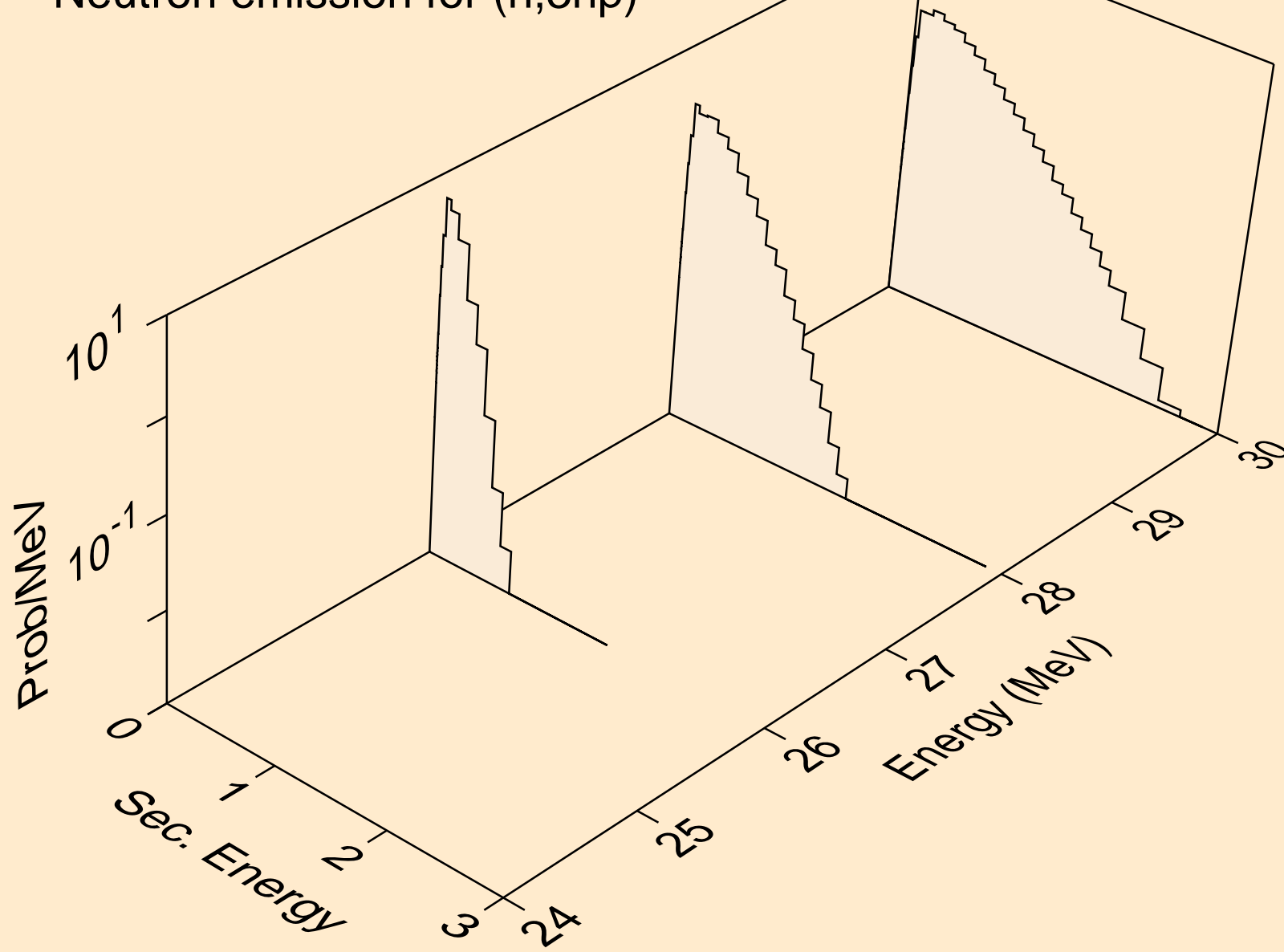
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)

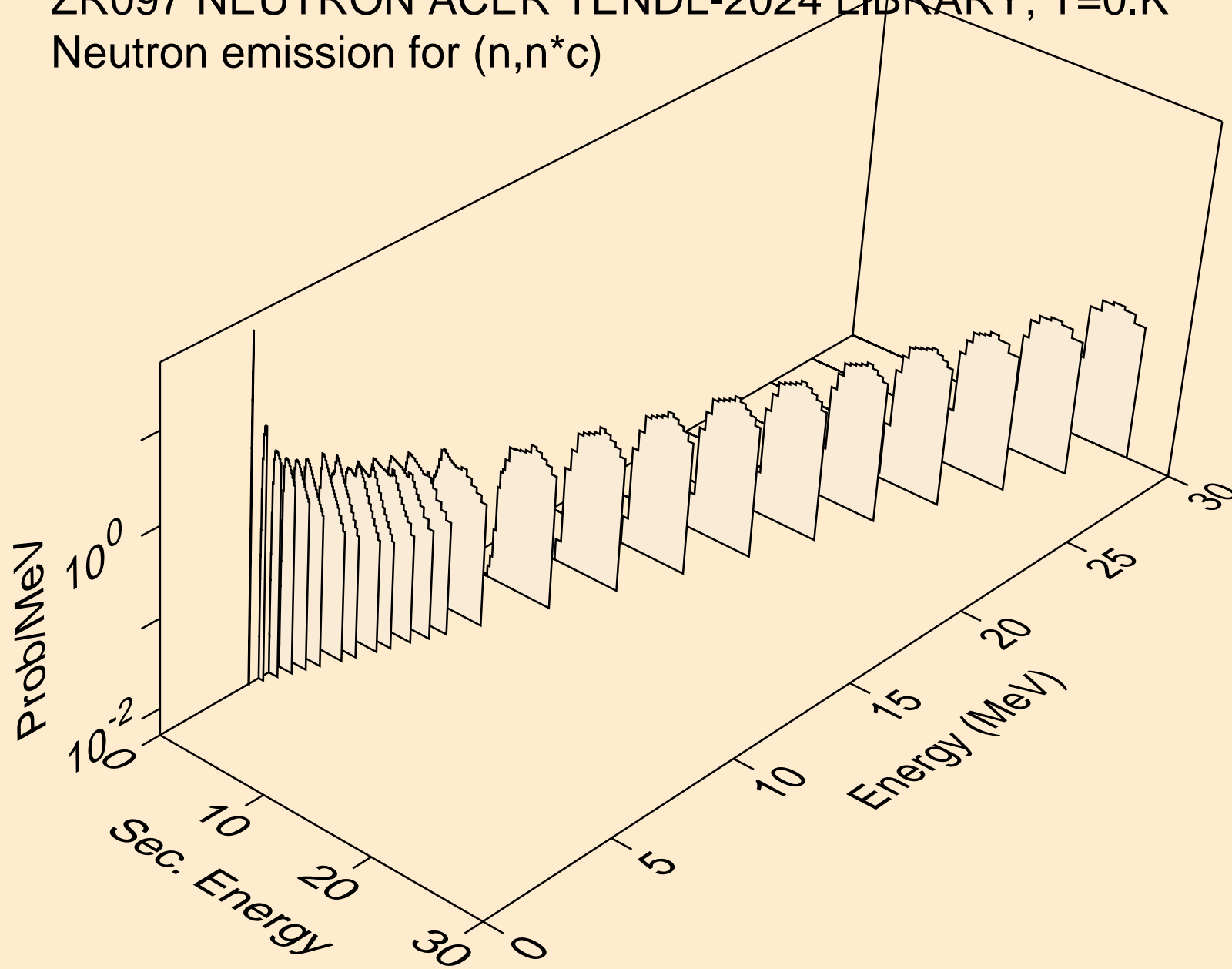


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Neutron emission for (n,3np)

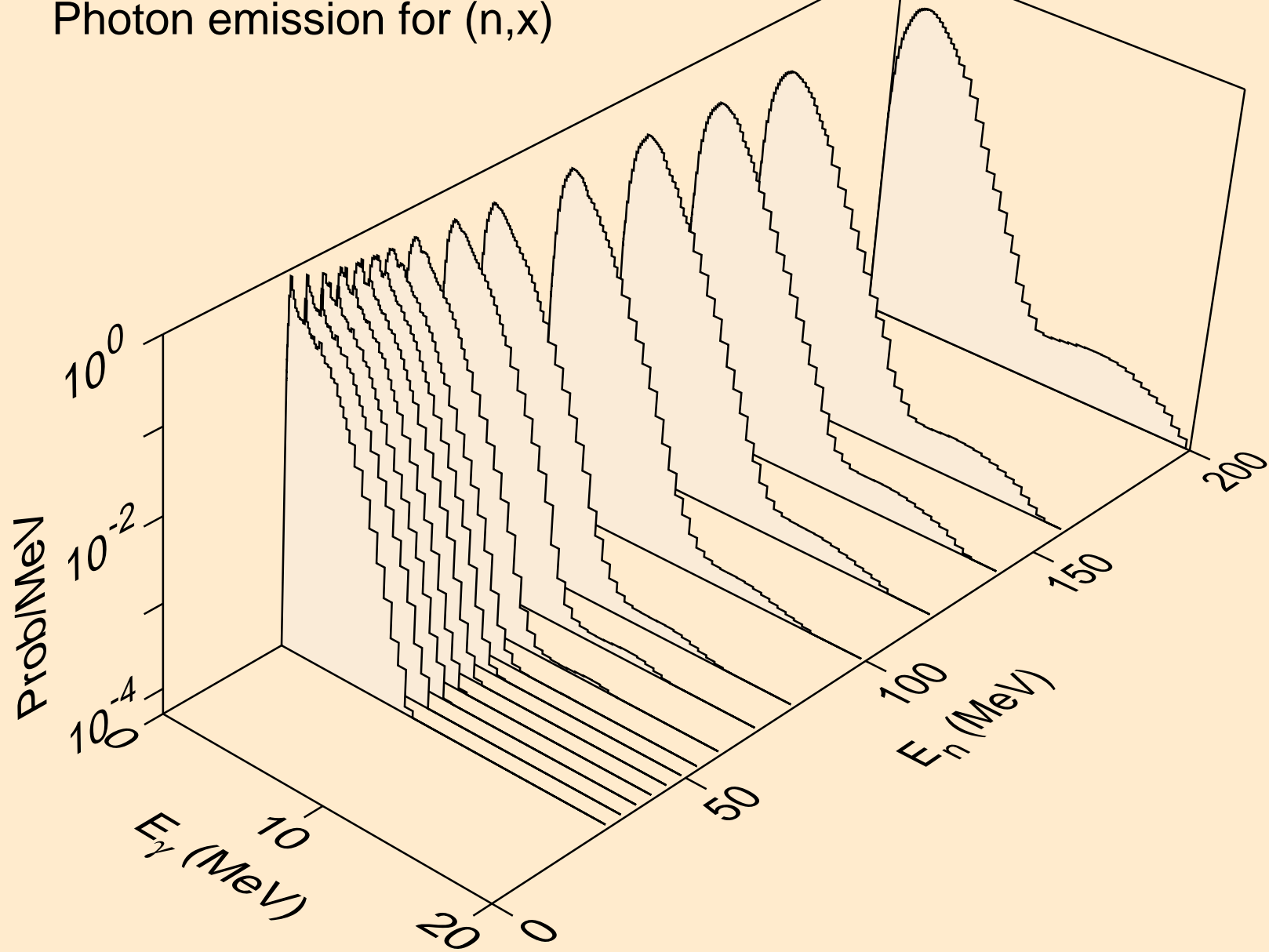




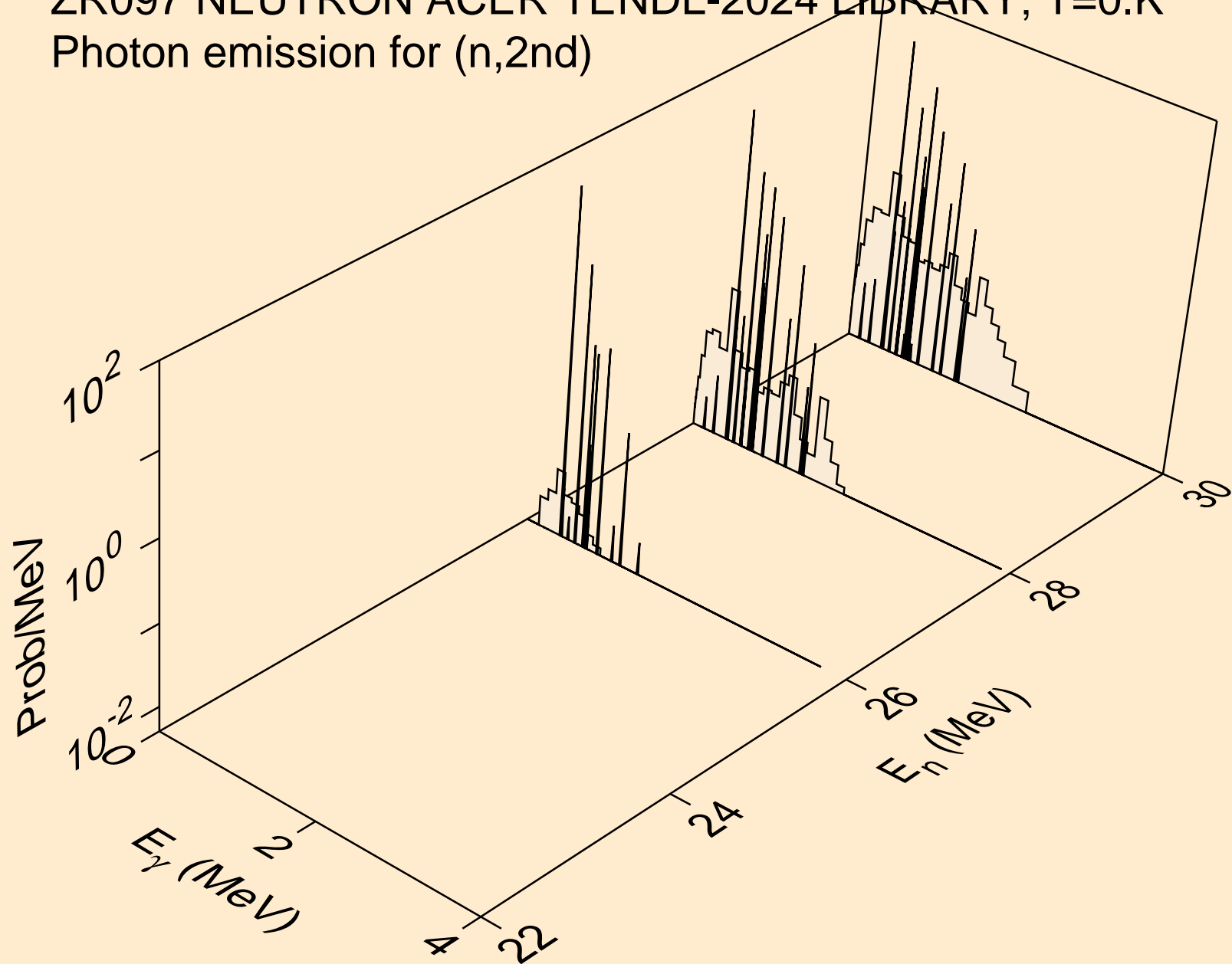
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



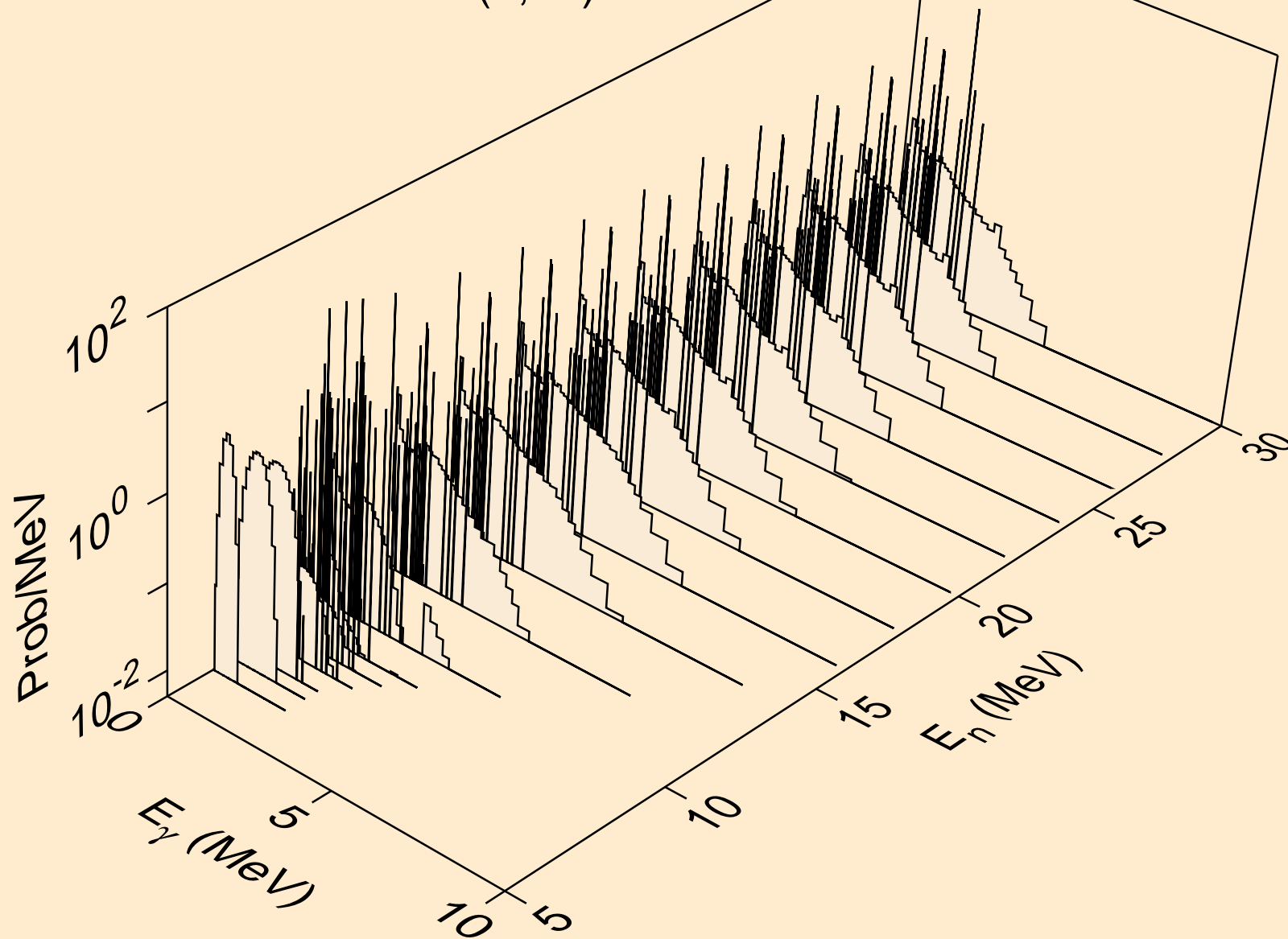
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



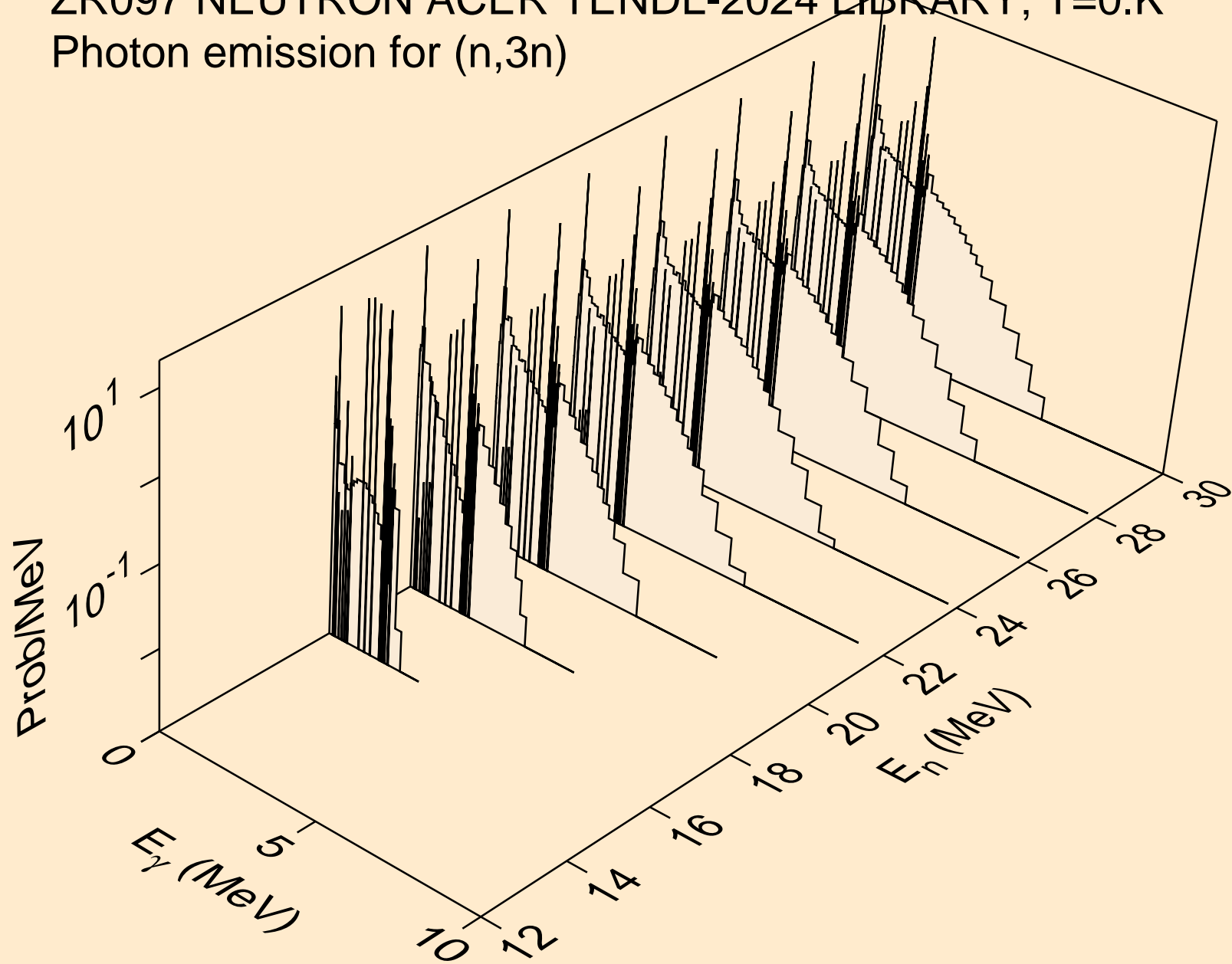
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Photon emission for (n,2nd)



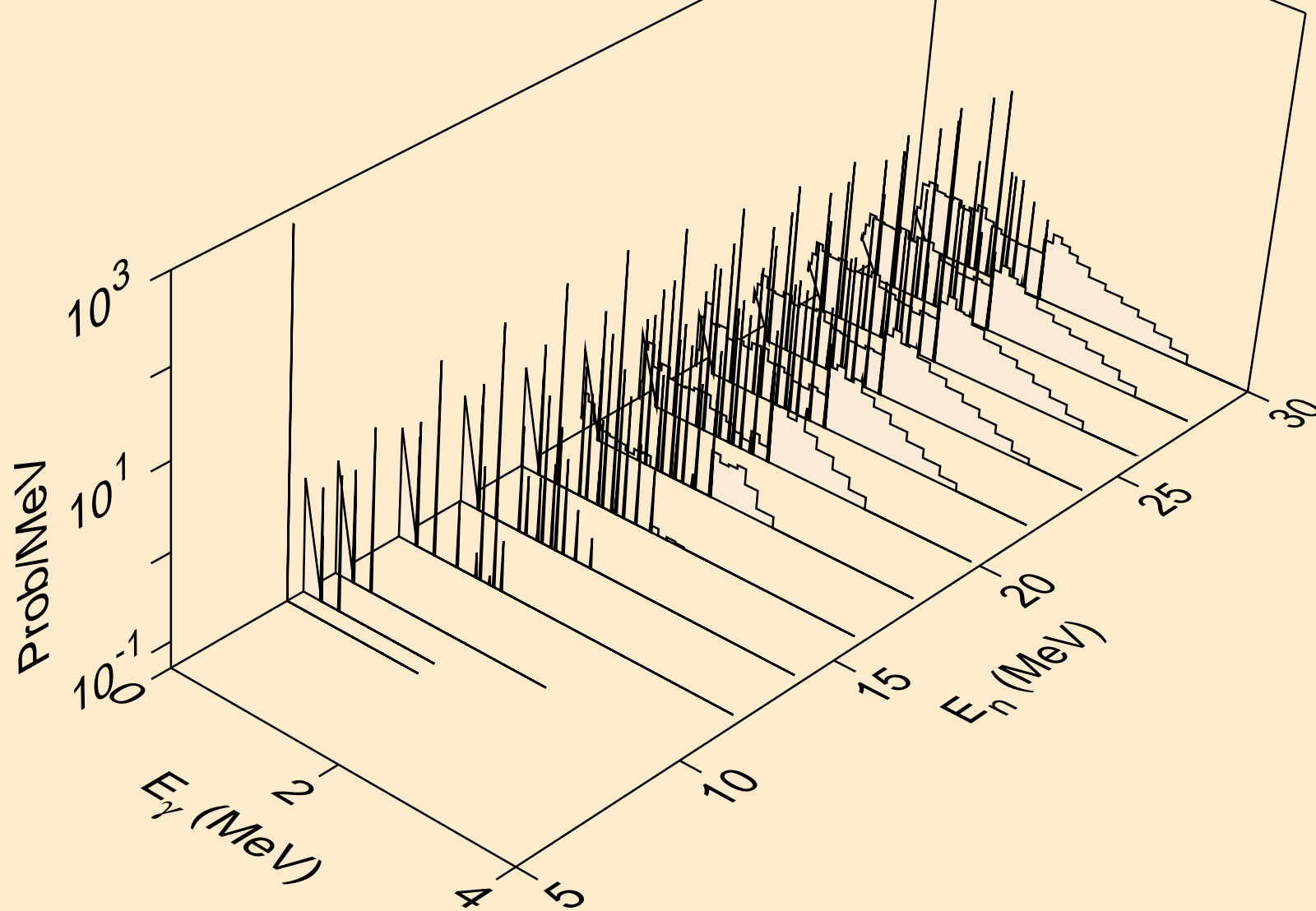
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Photon emission for (n,2n)



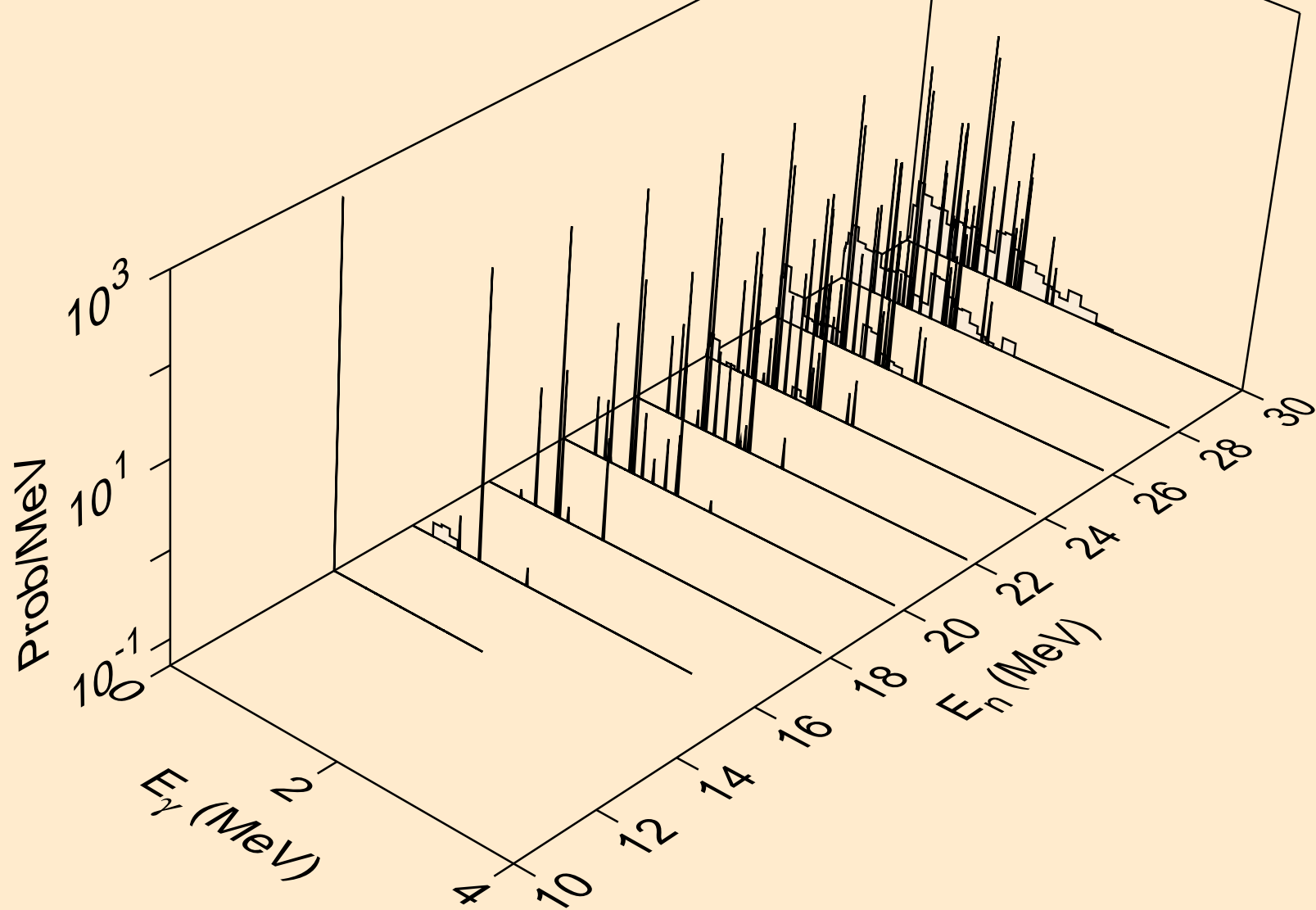
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



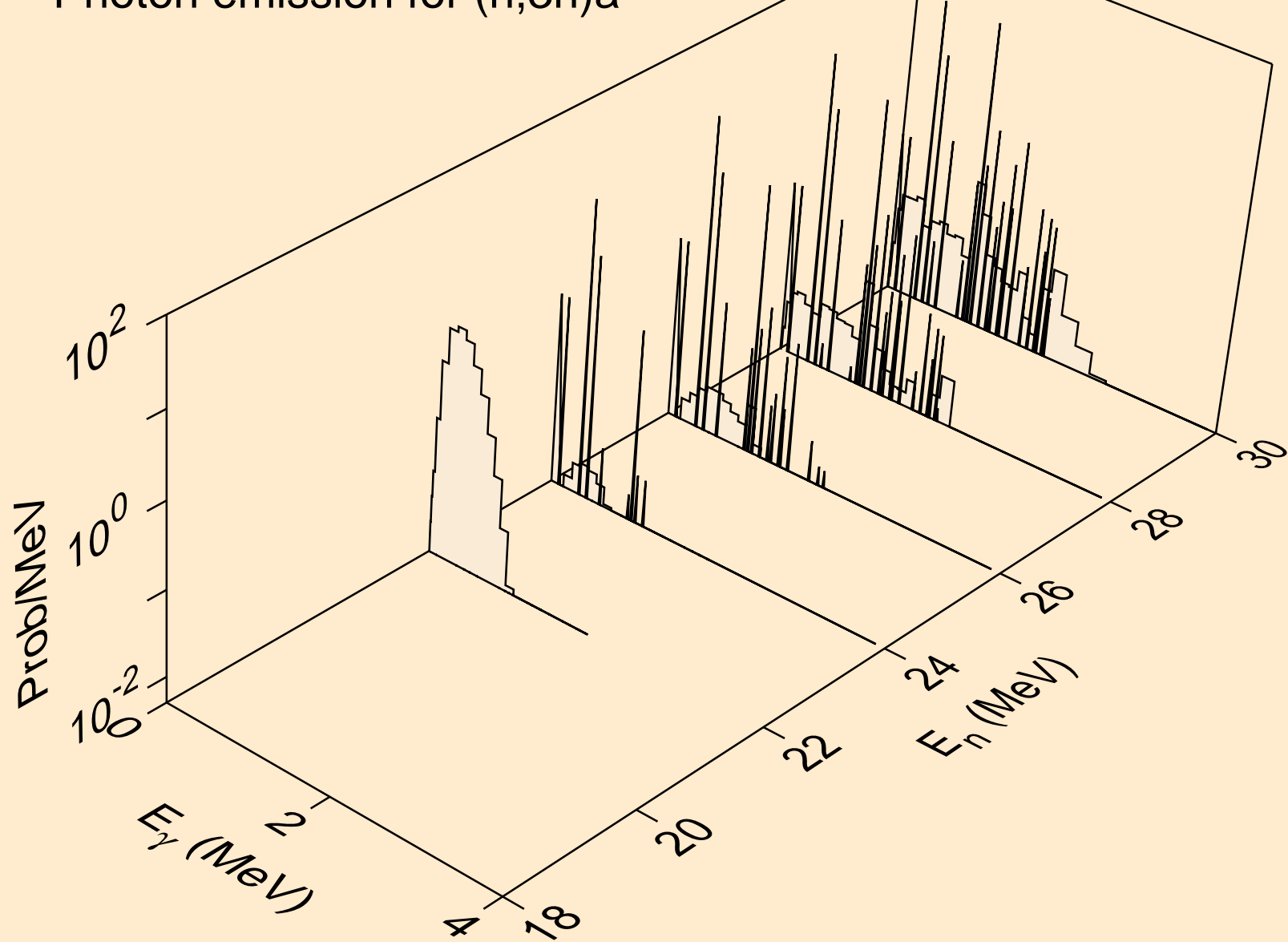
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

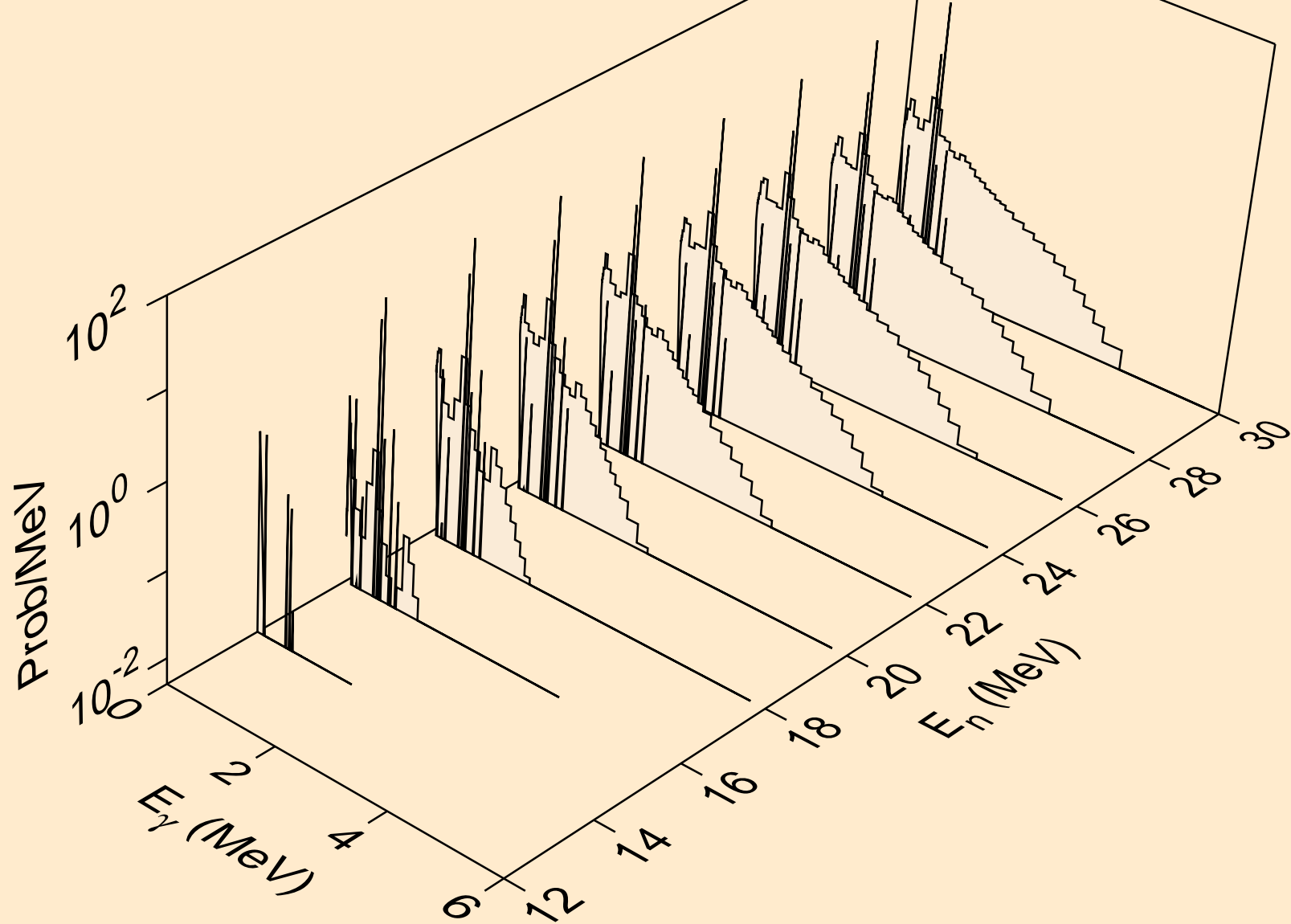


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a

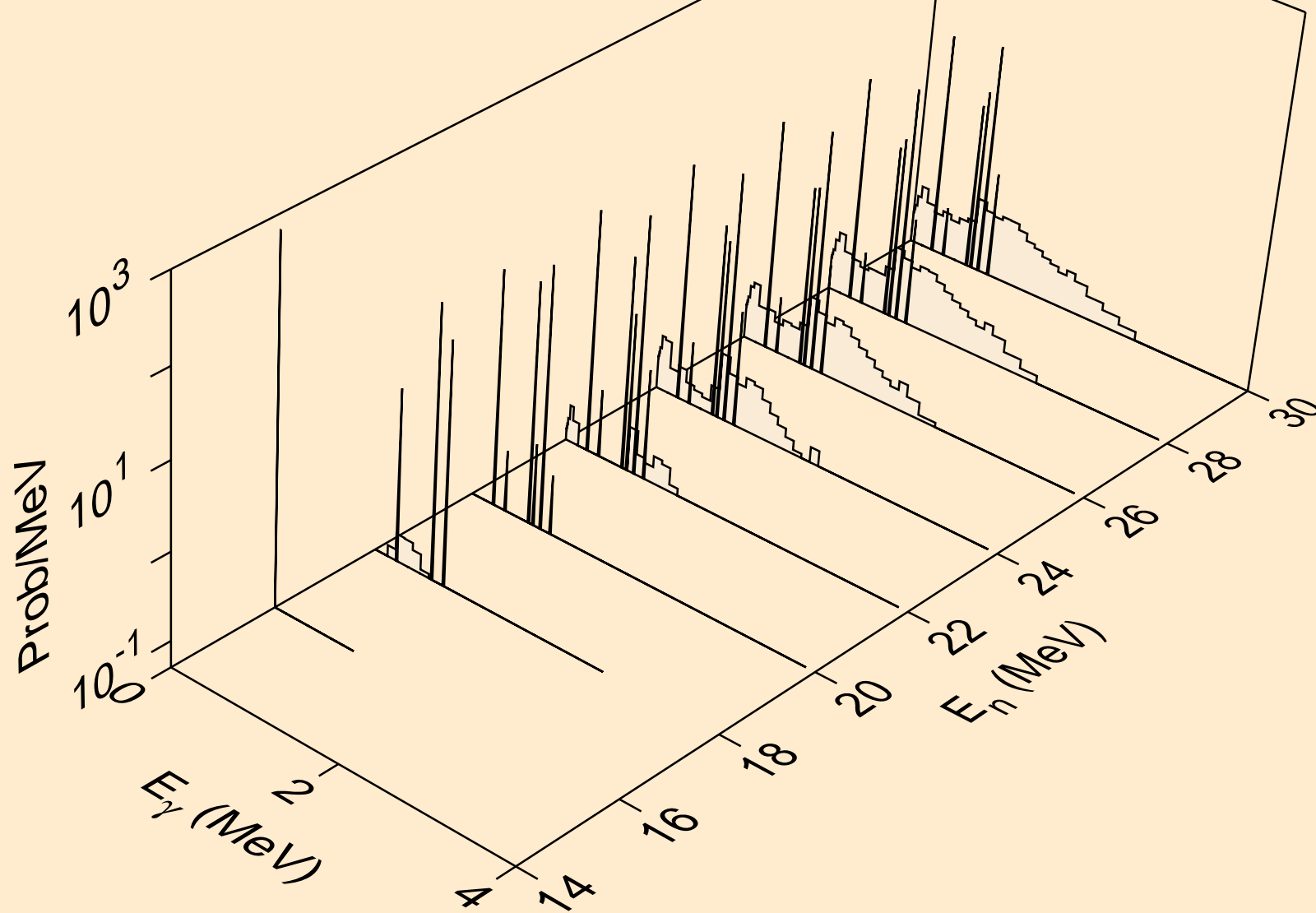




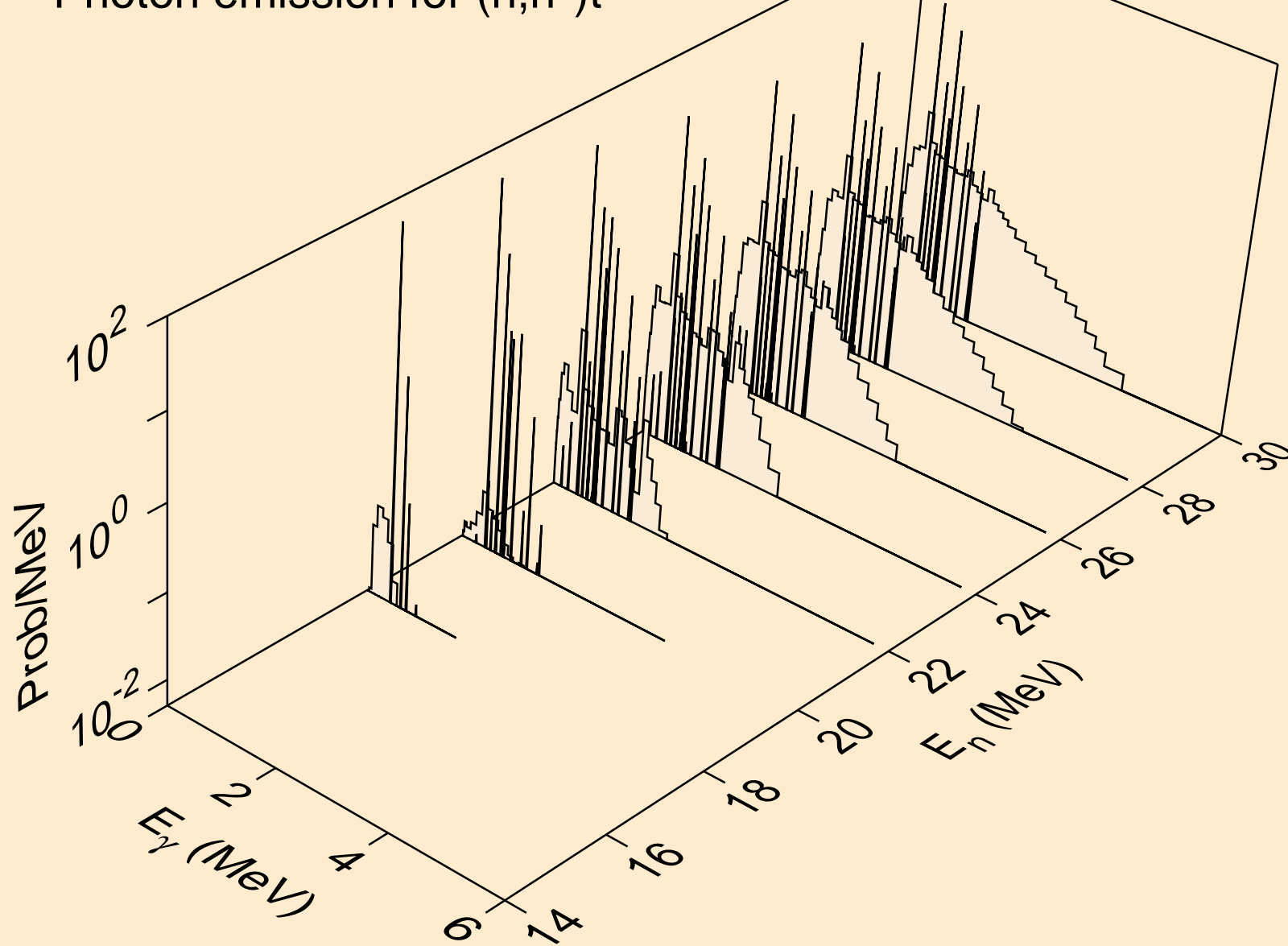
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



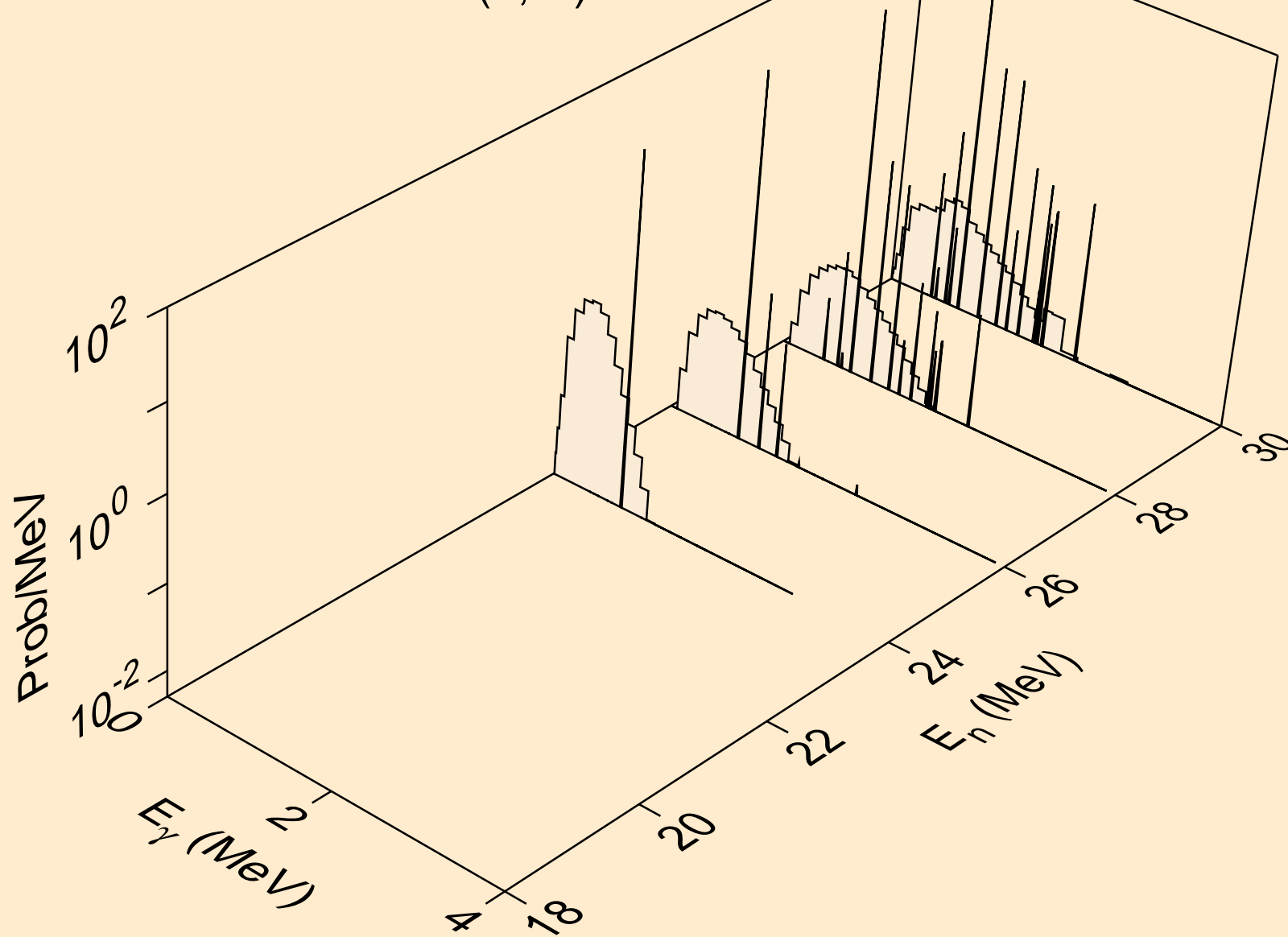
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Photon emission for (n,n\*)d



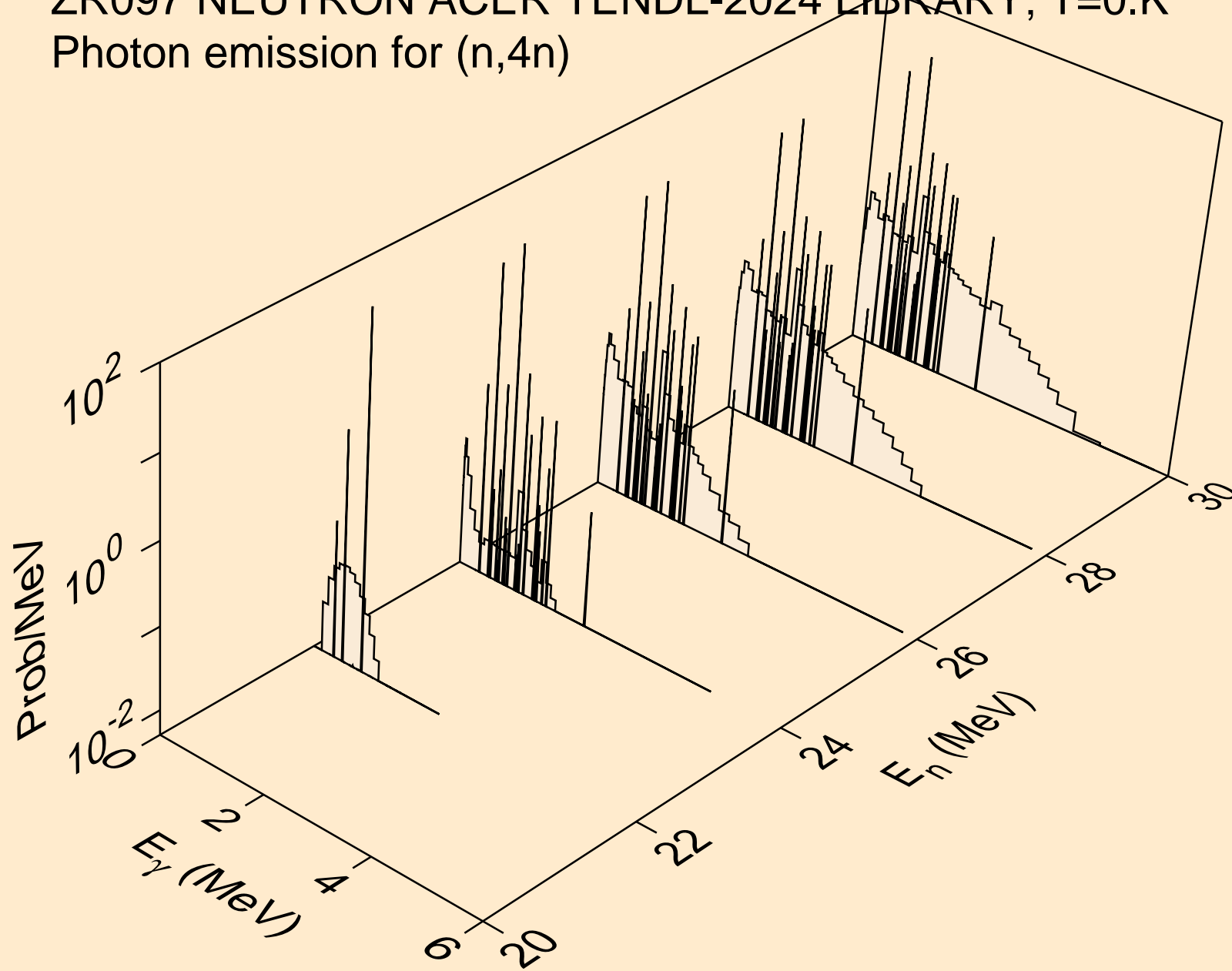
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Photon emission for (n,n\*)t



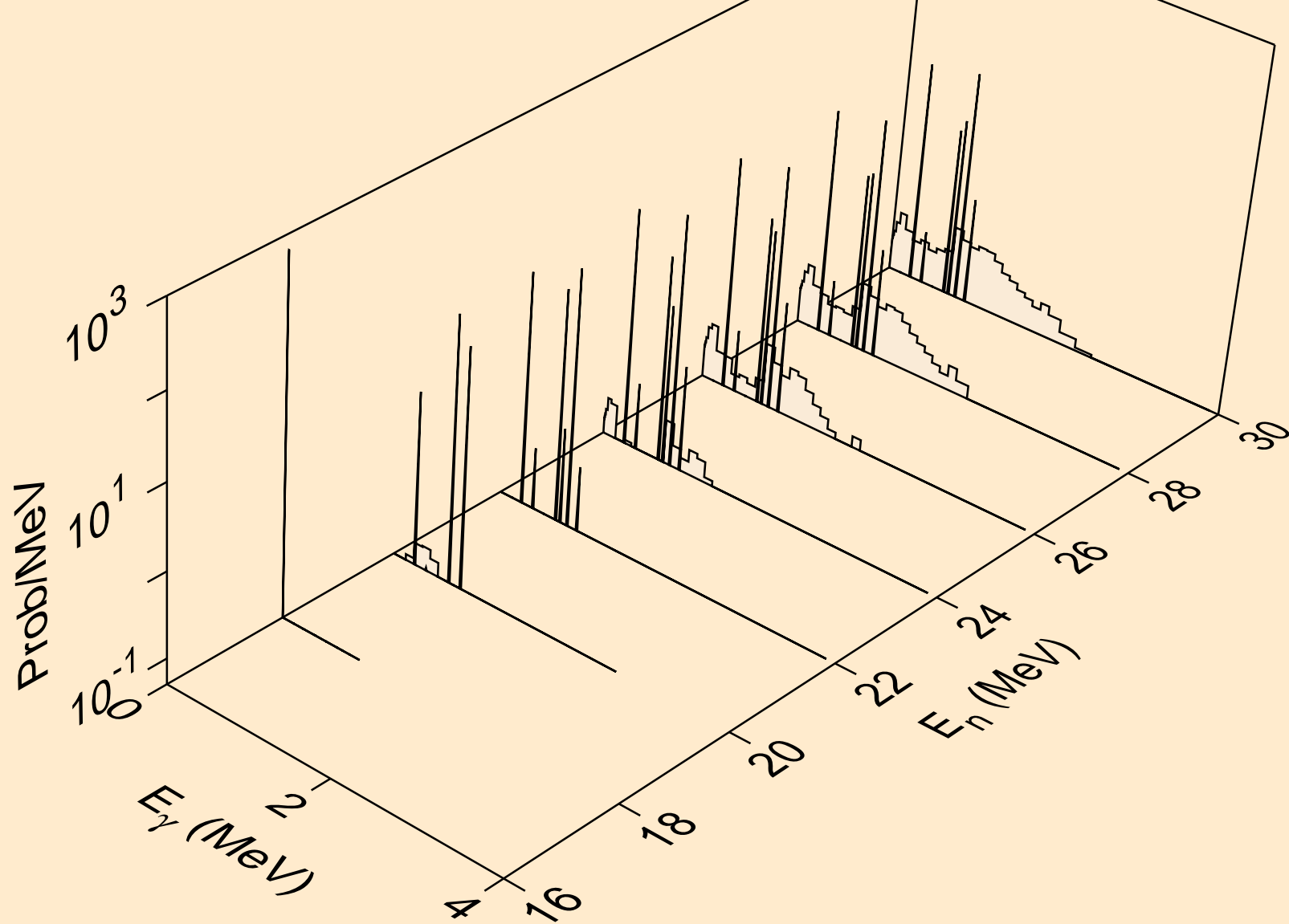
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



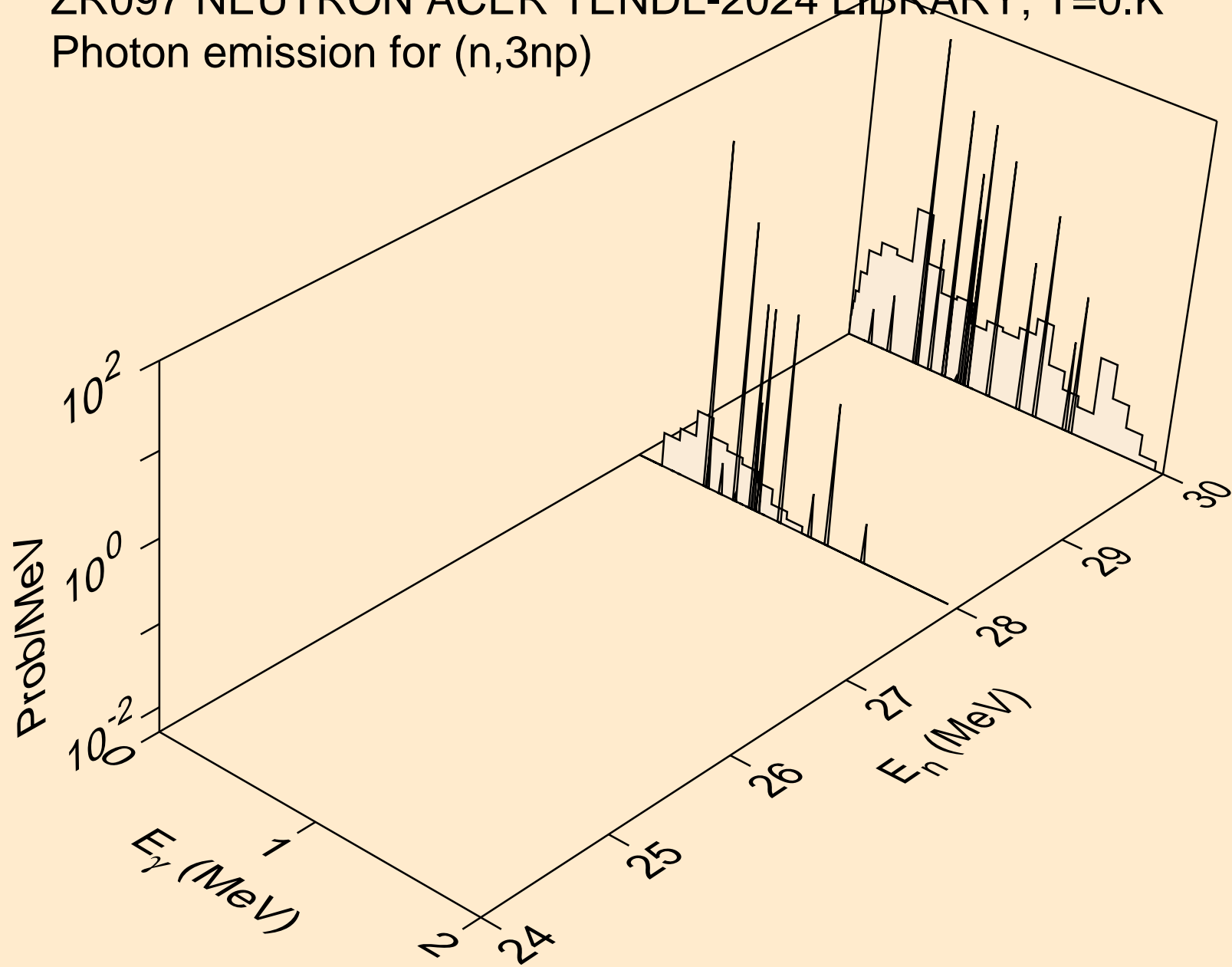
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



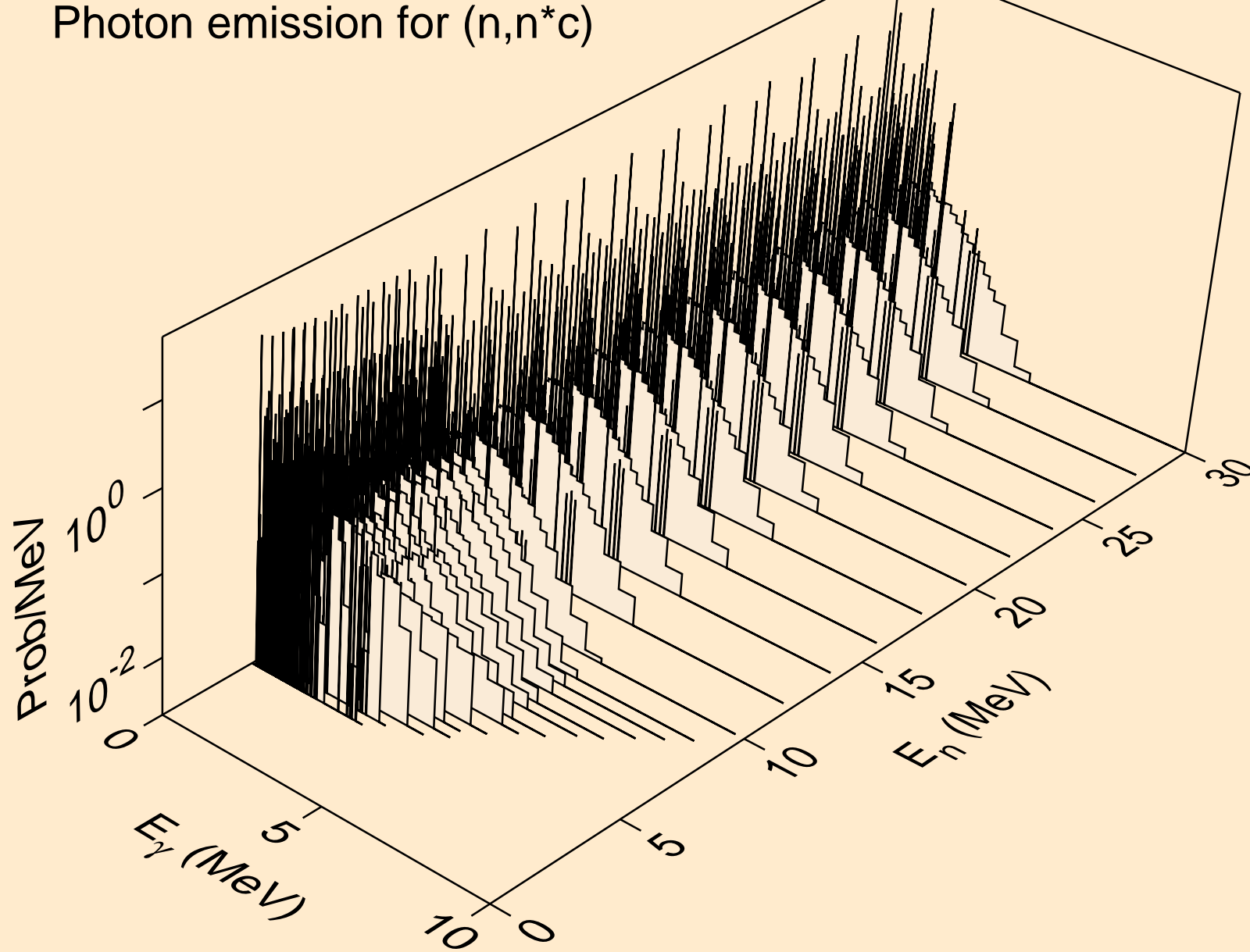
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)

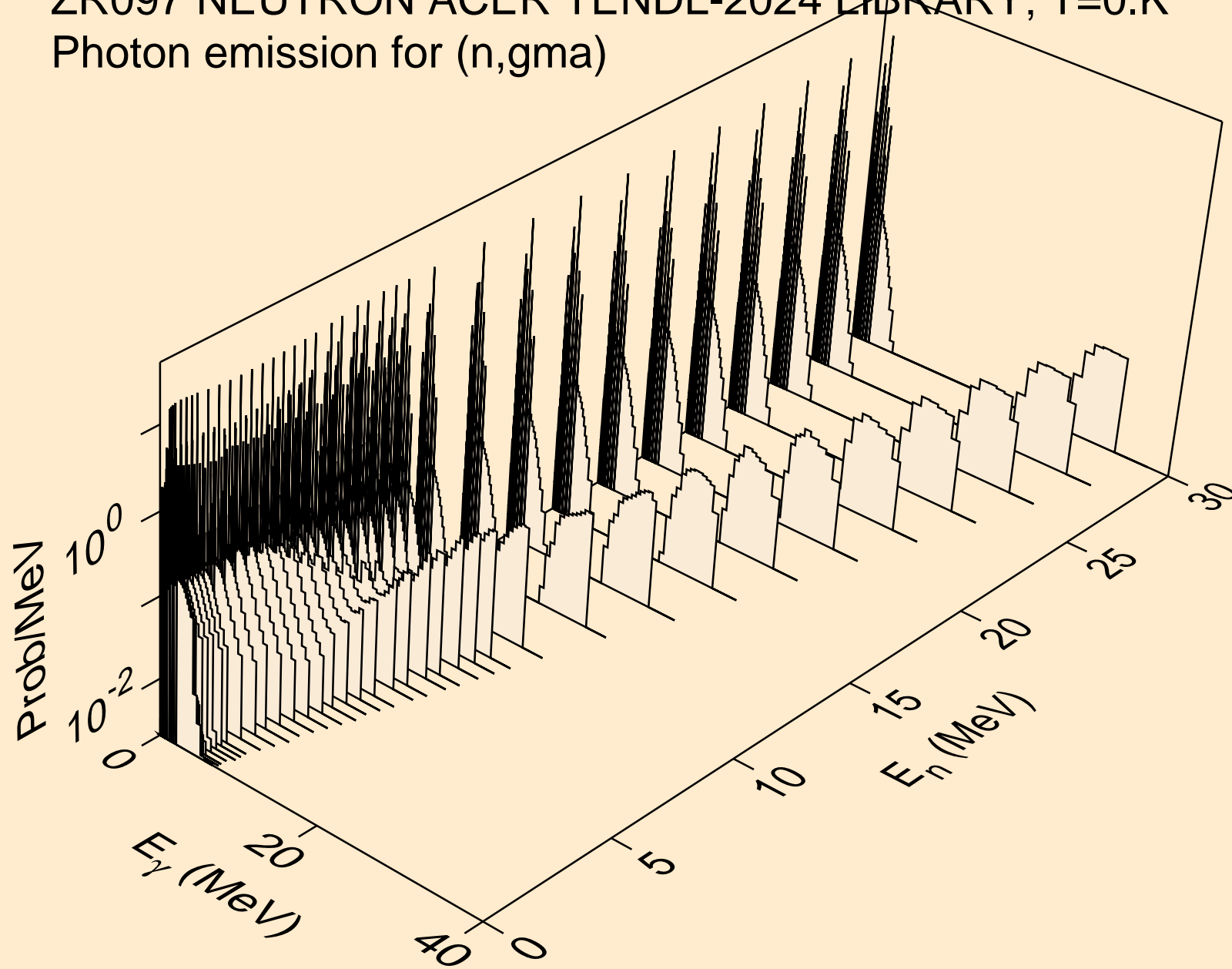


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

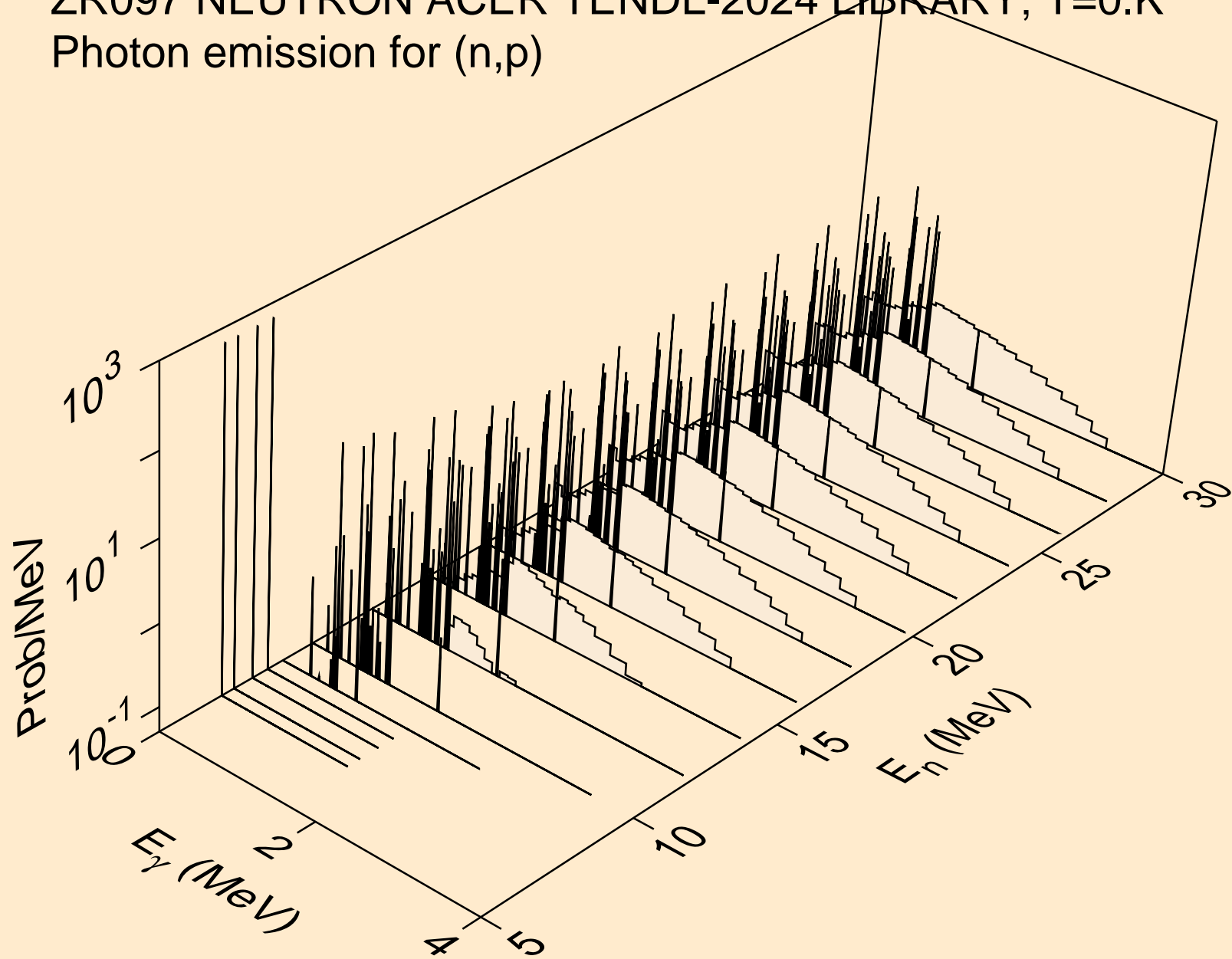




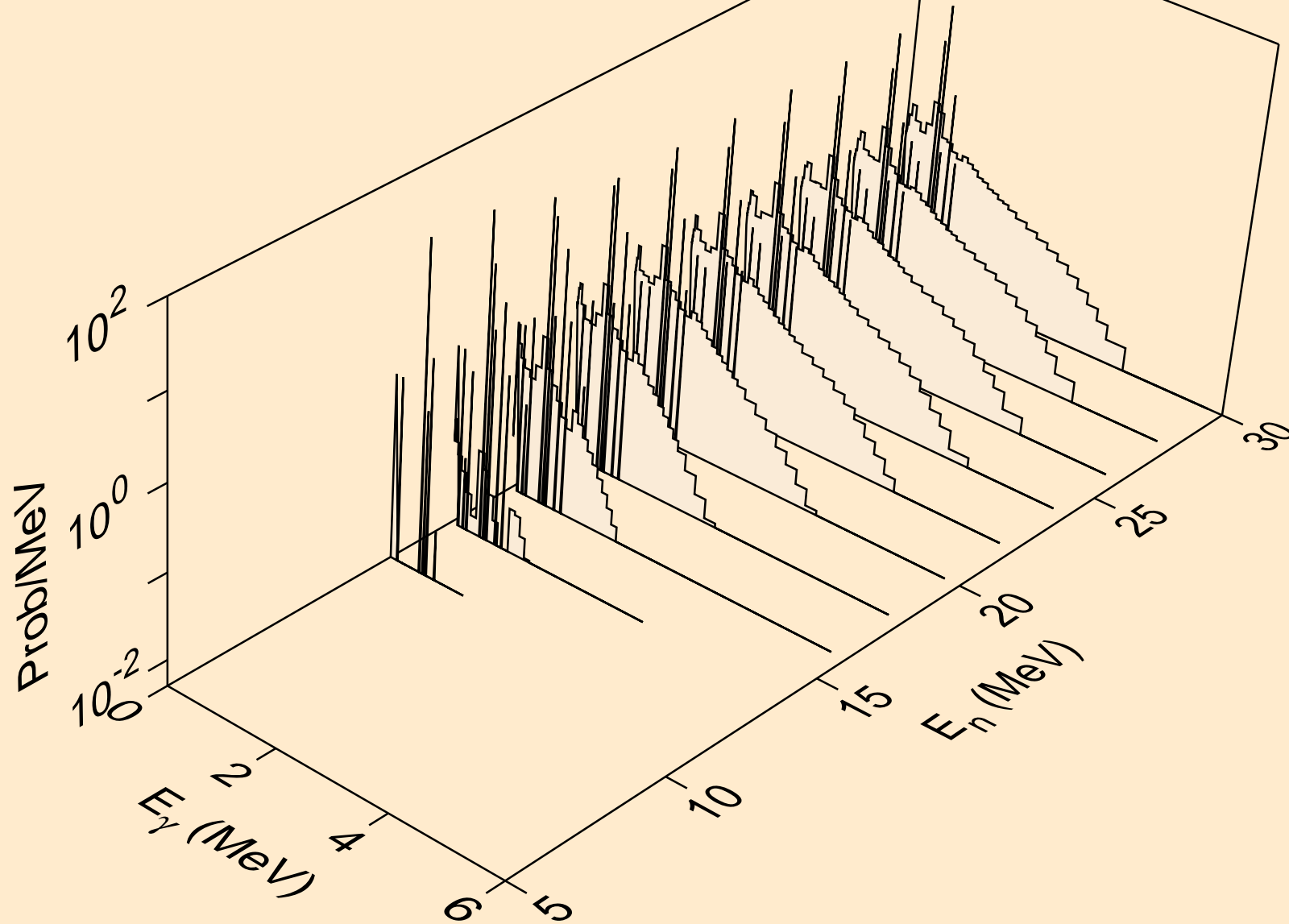
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Photon emission for (n,gma)



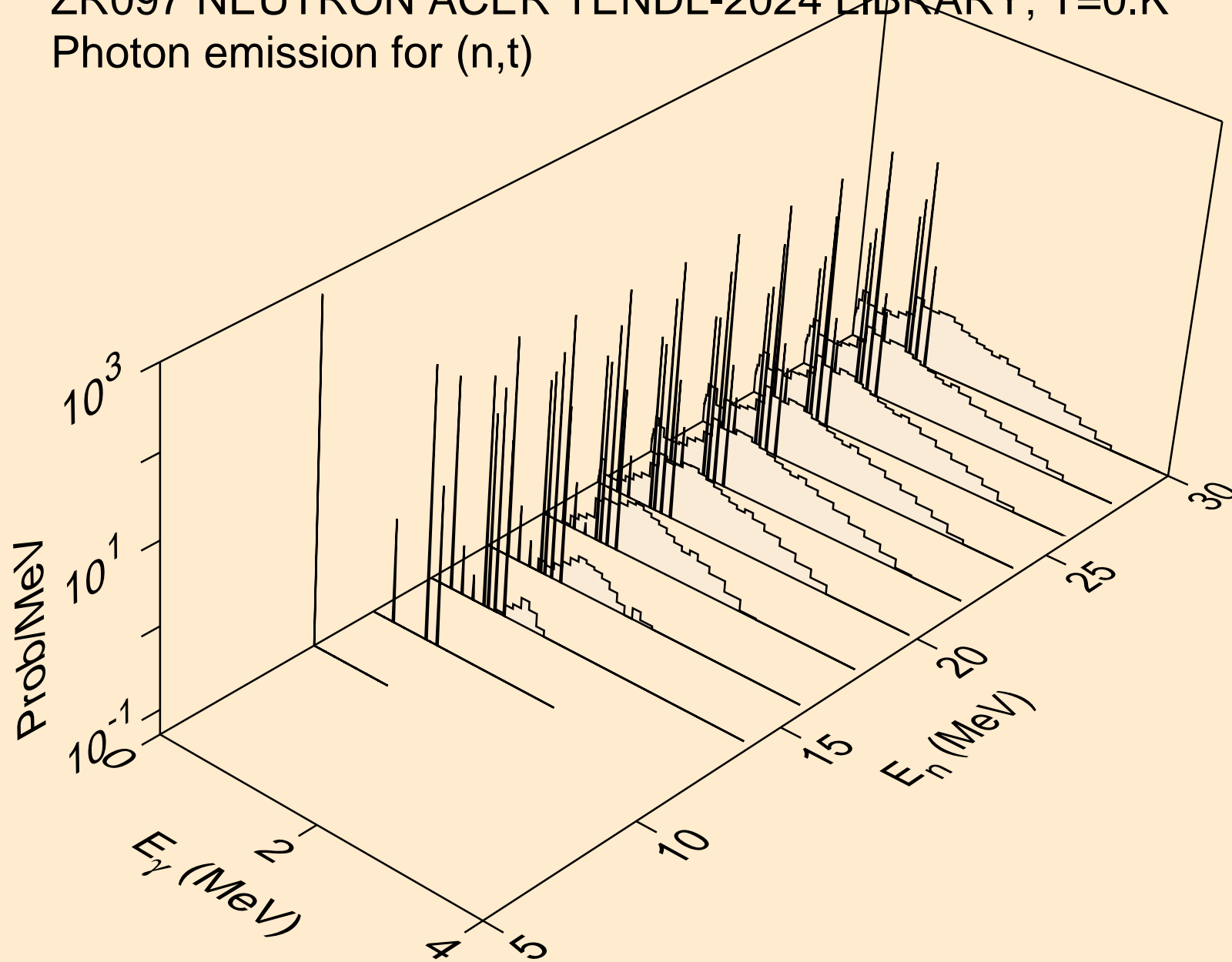
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Photon emission for (n,p)



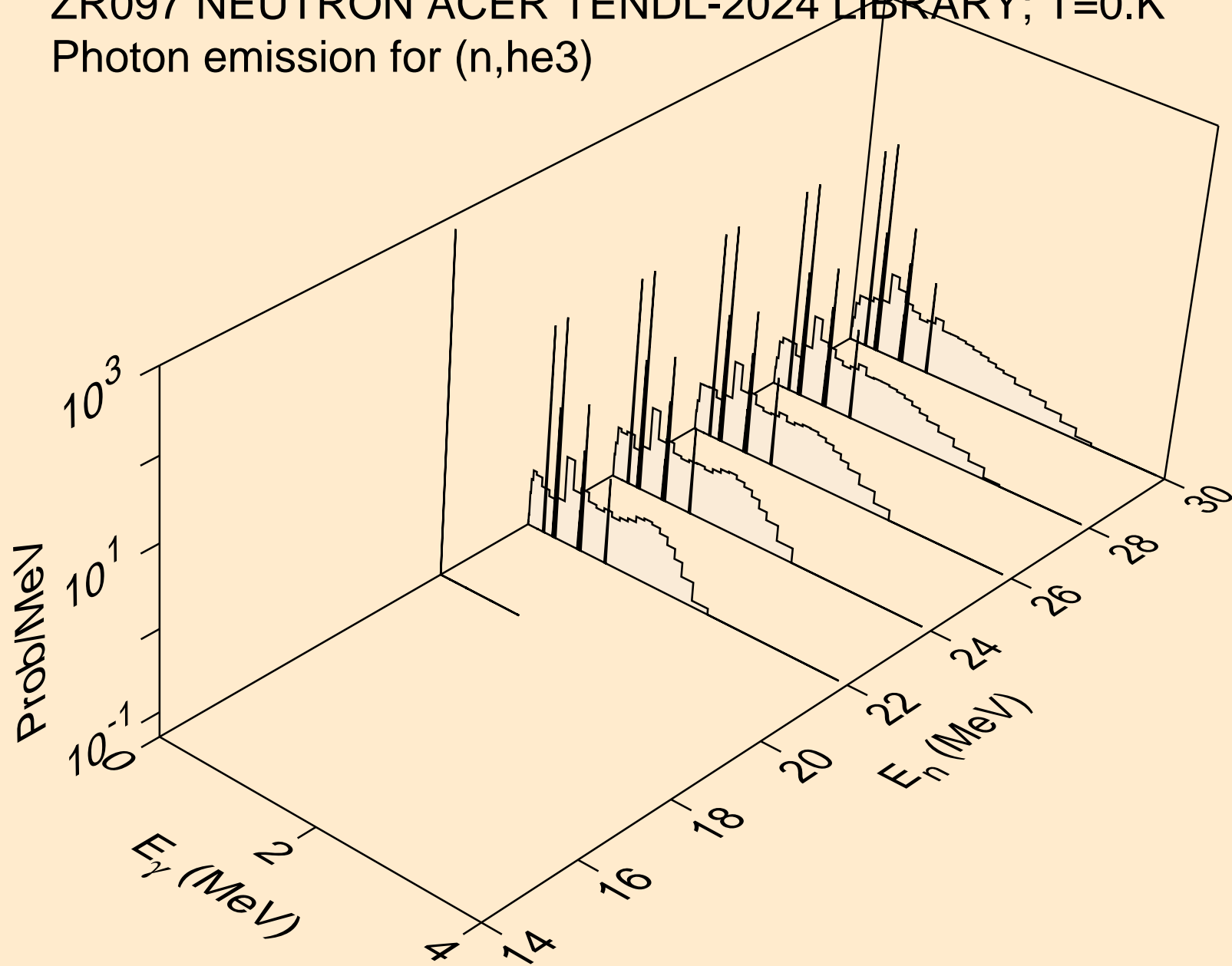
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Photon emission for (n,d)



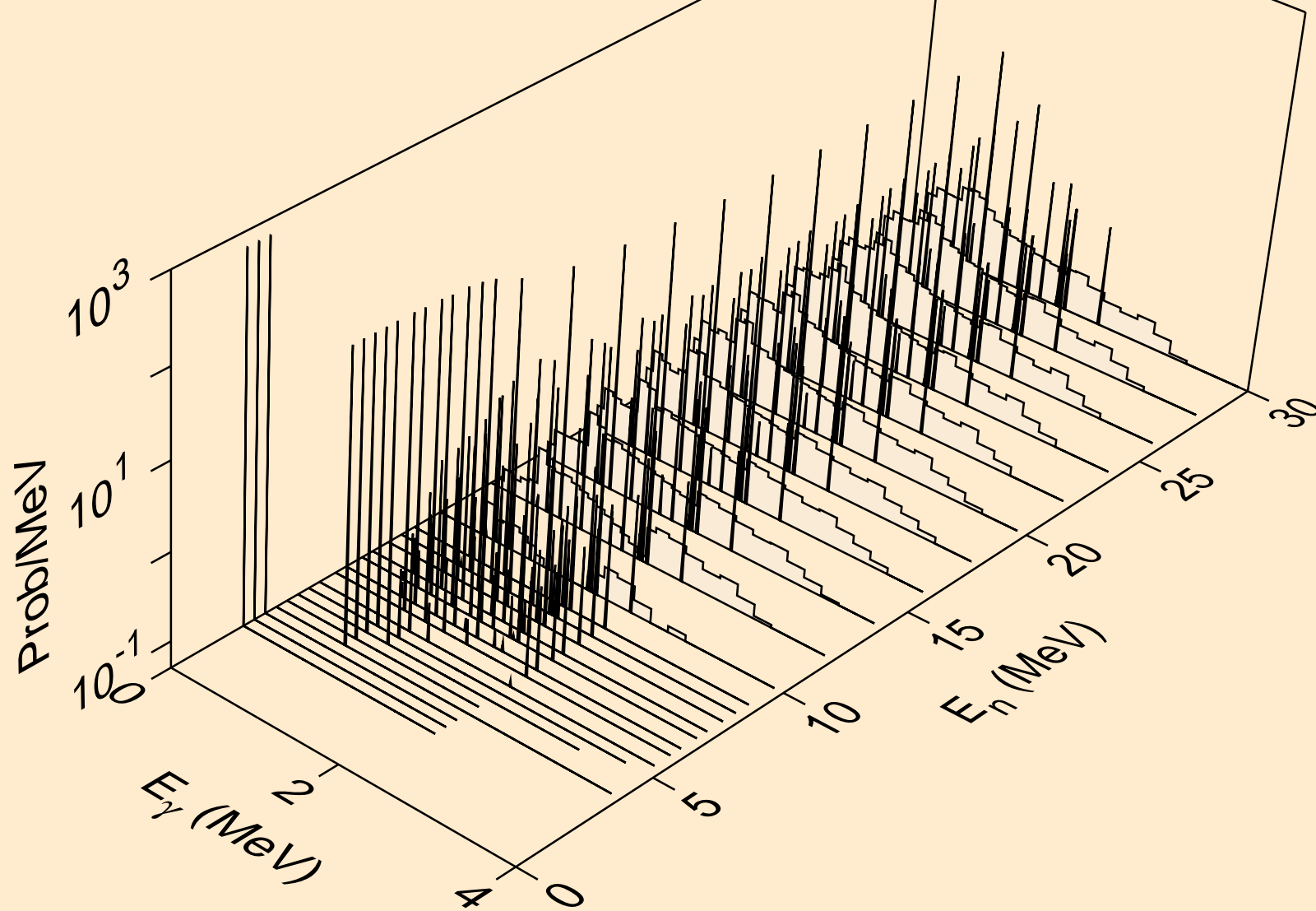
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Photon emission for (n,t)



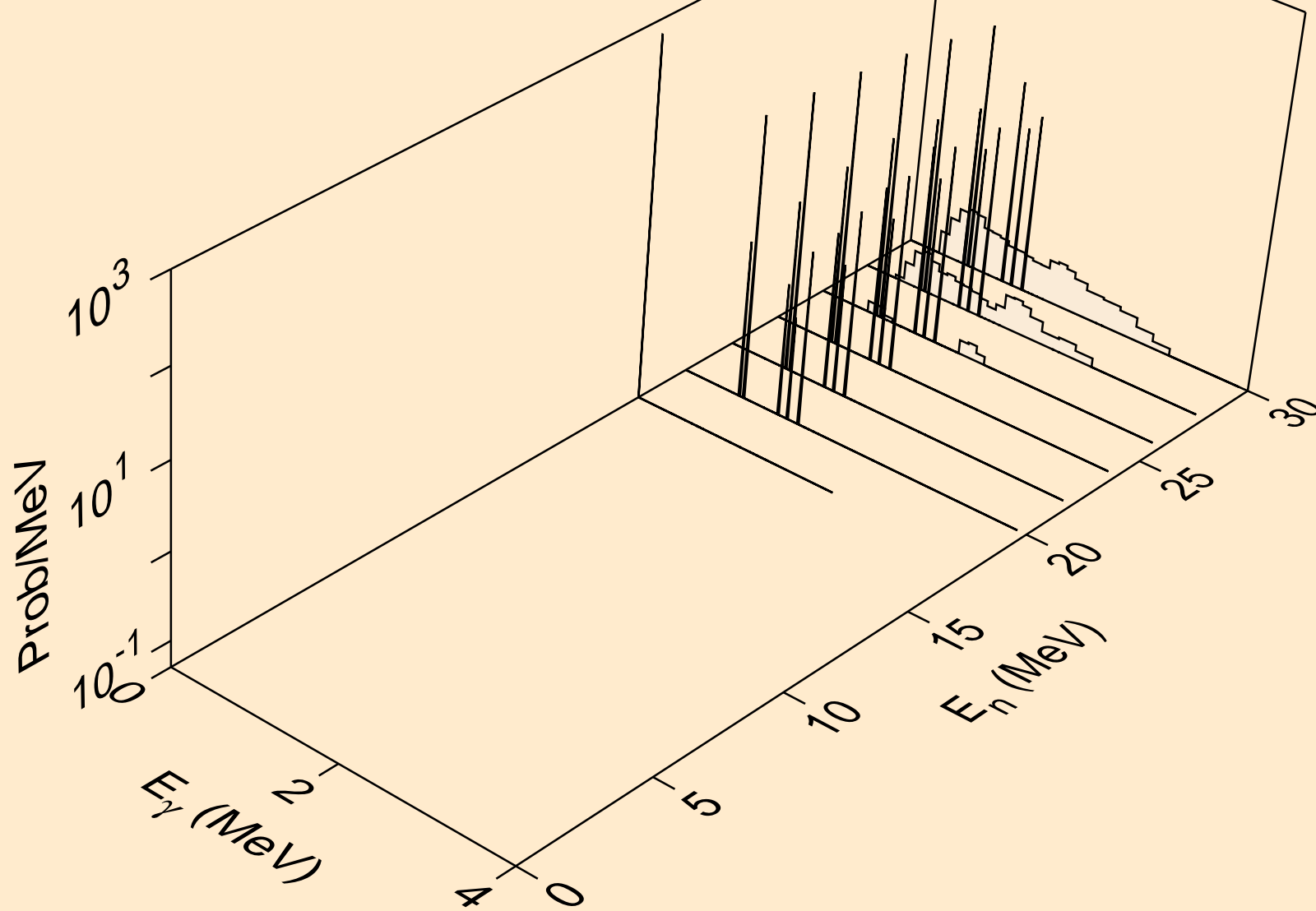
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Photon emission for (n,he3)



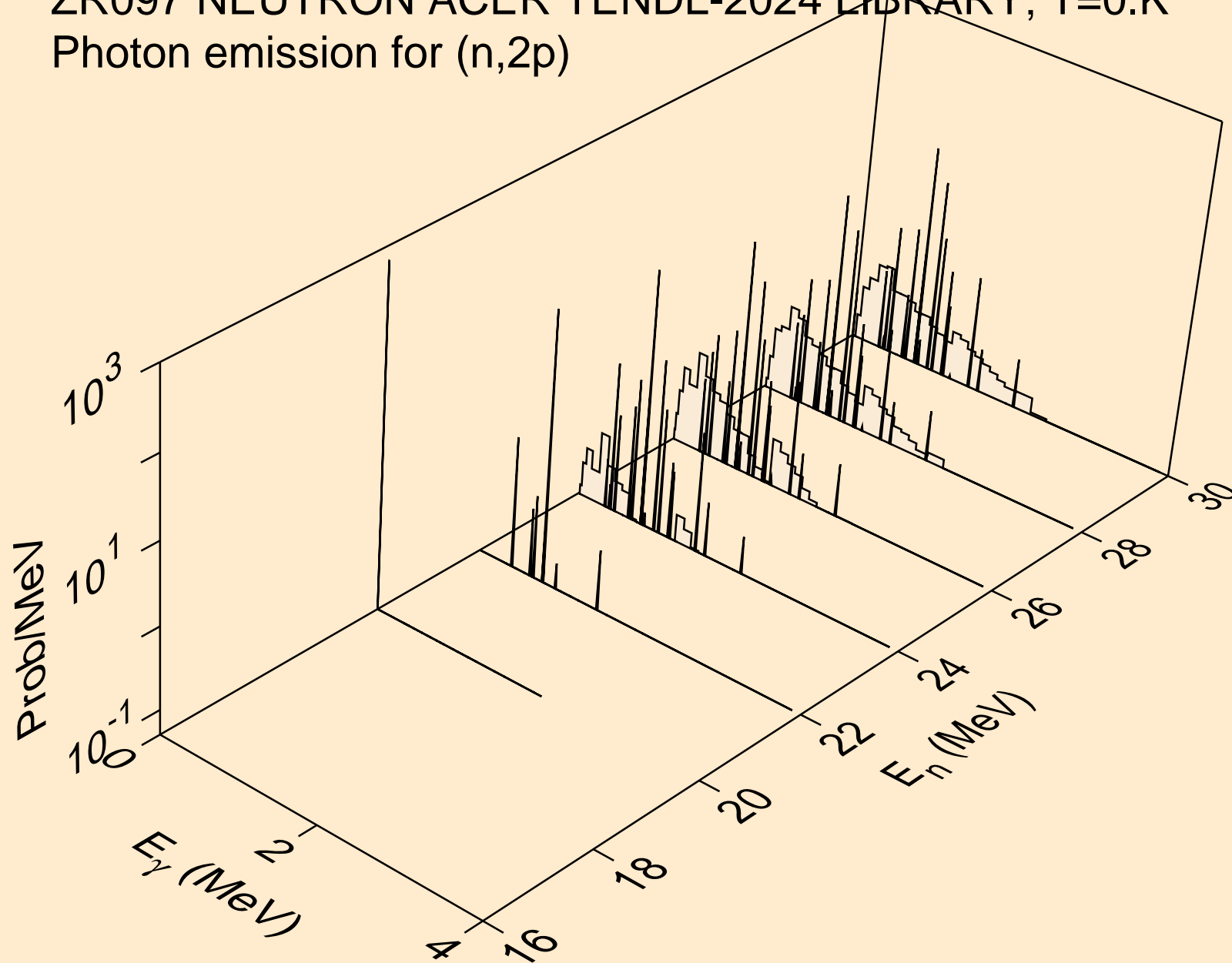
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)

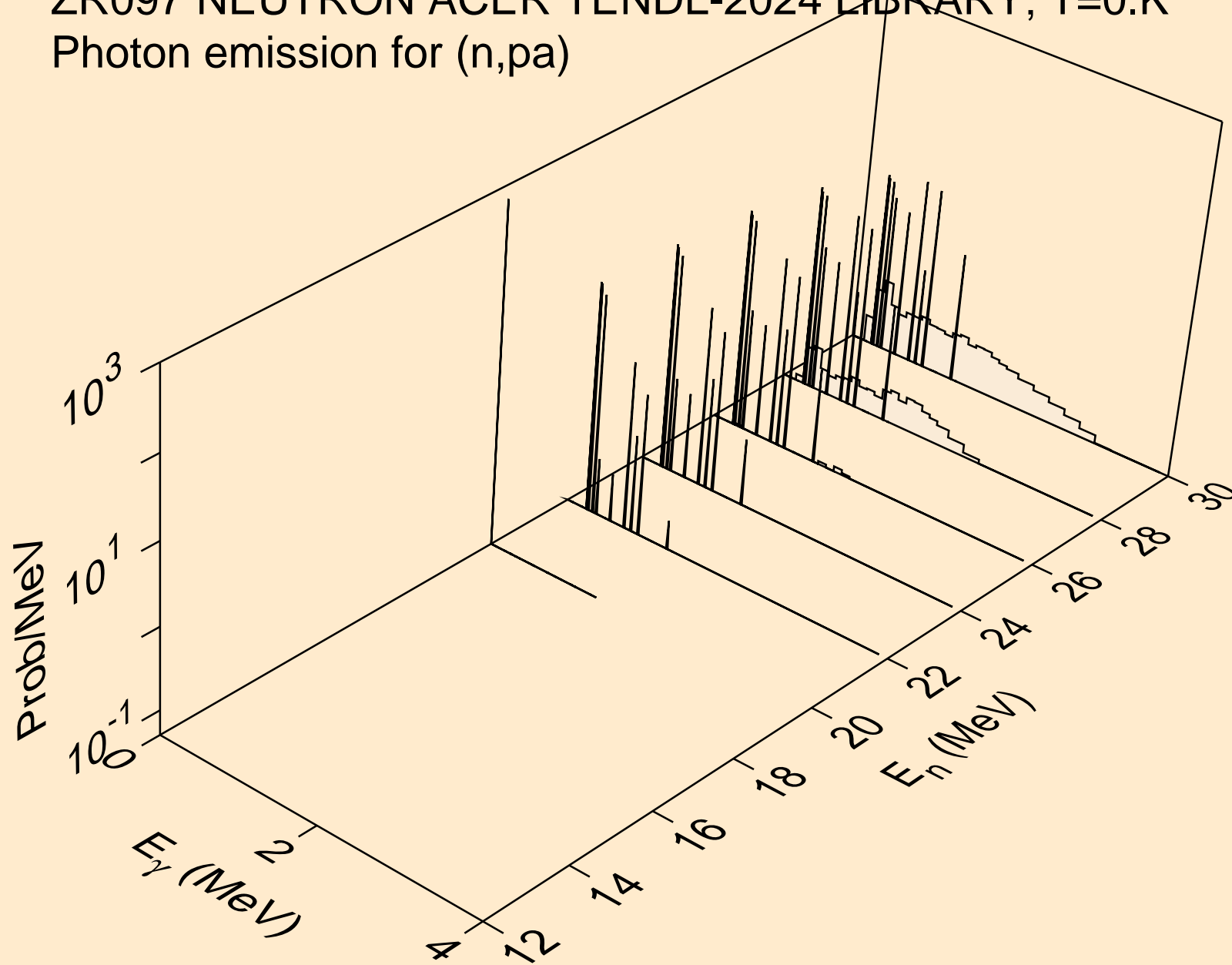


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Photon emission for (n,2p)

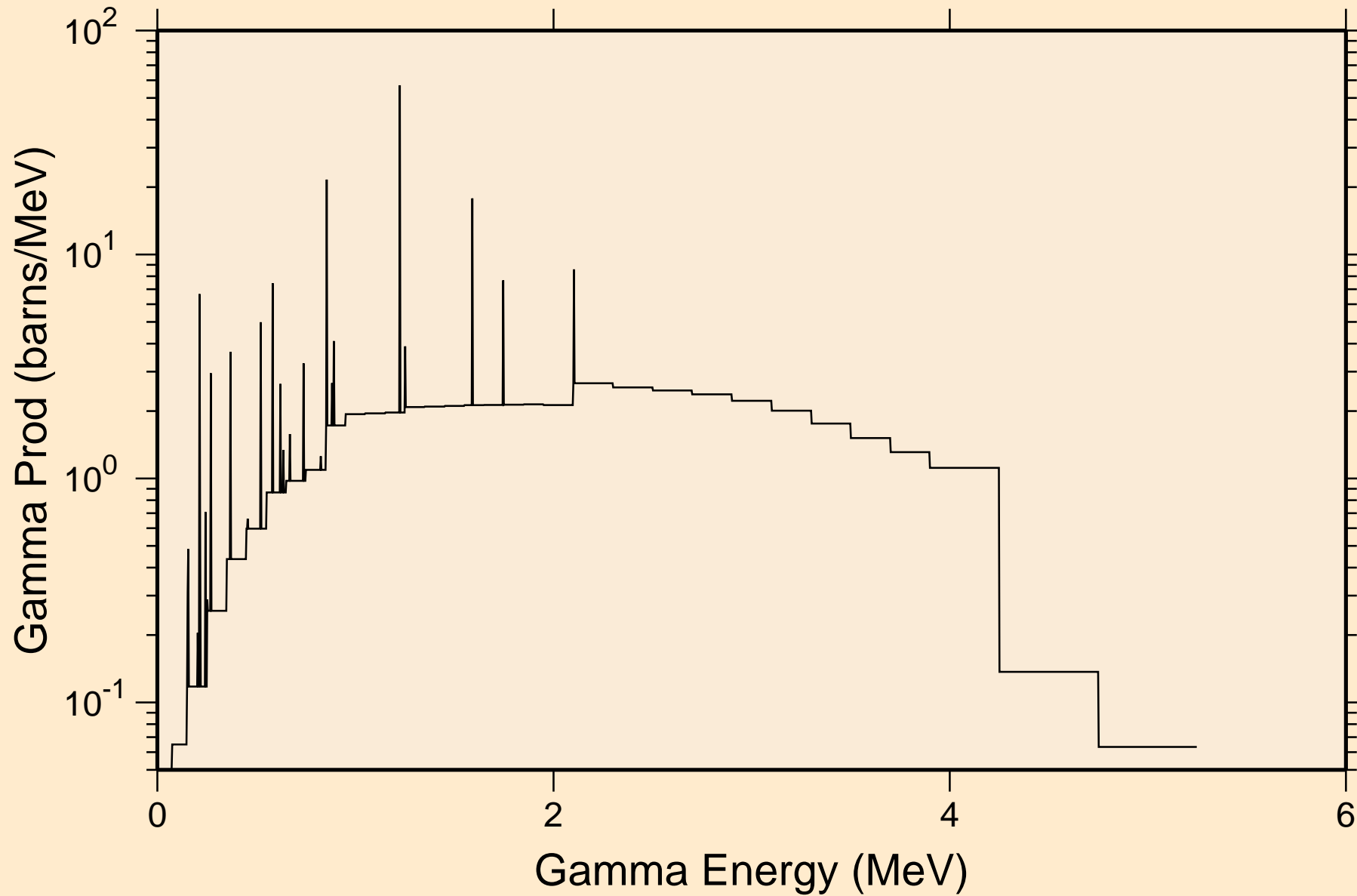




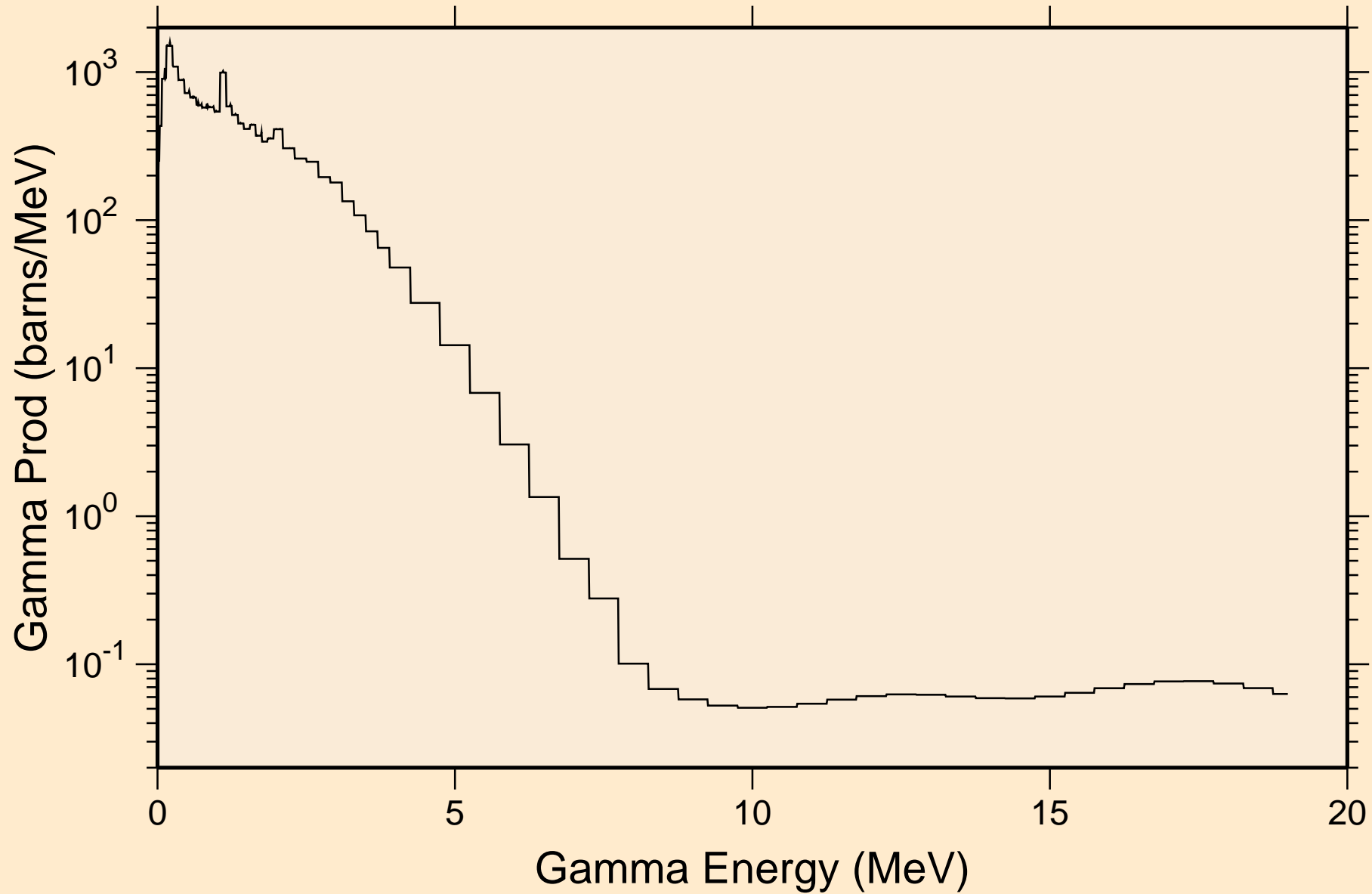
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pa)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

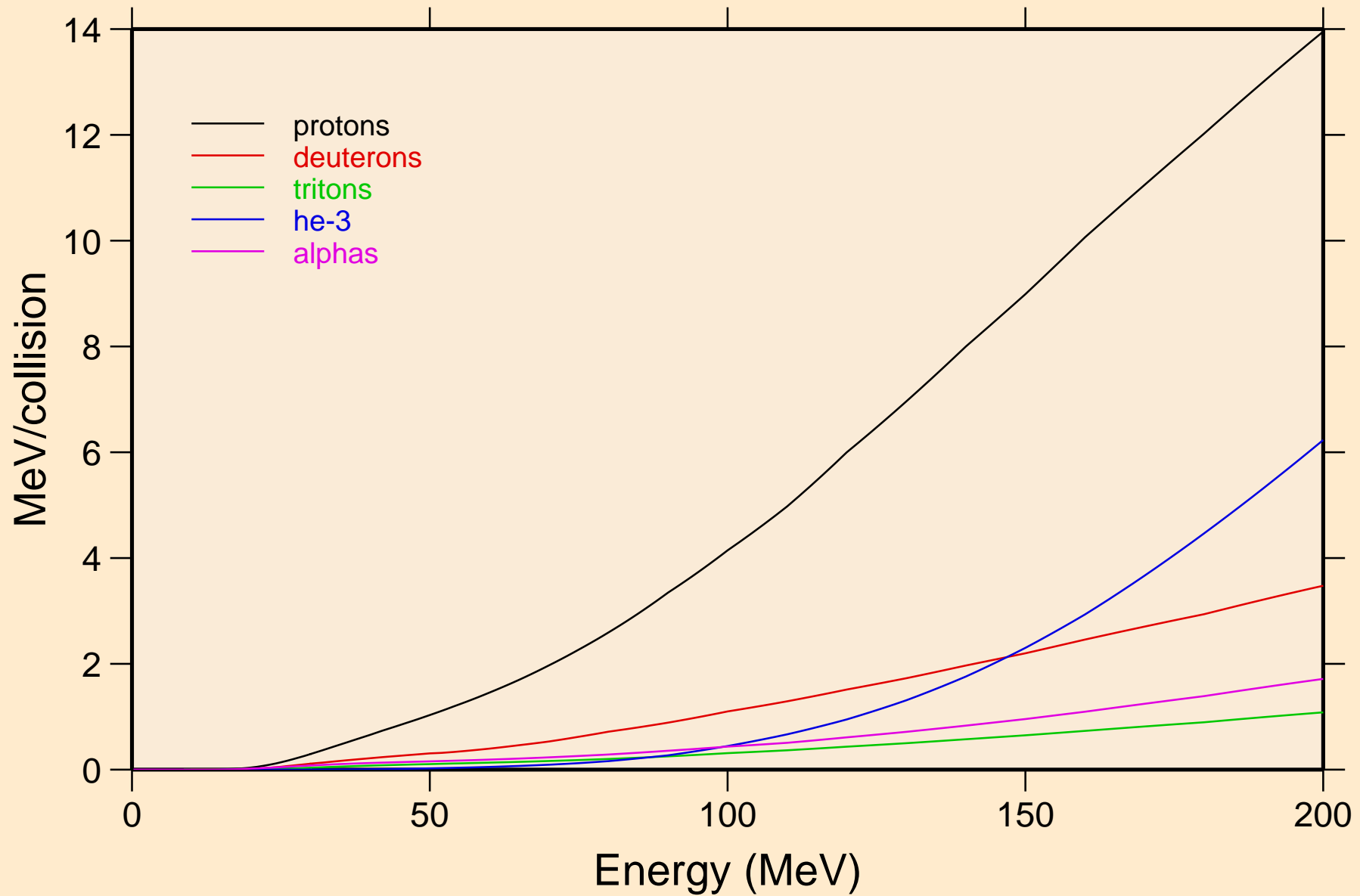


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

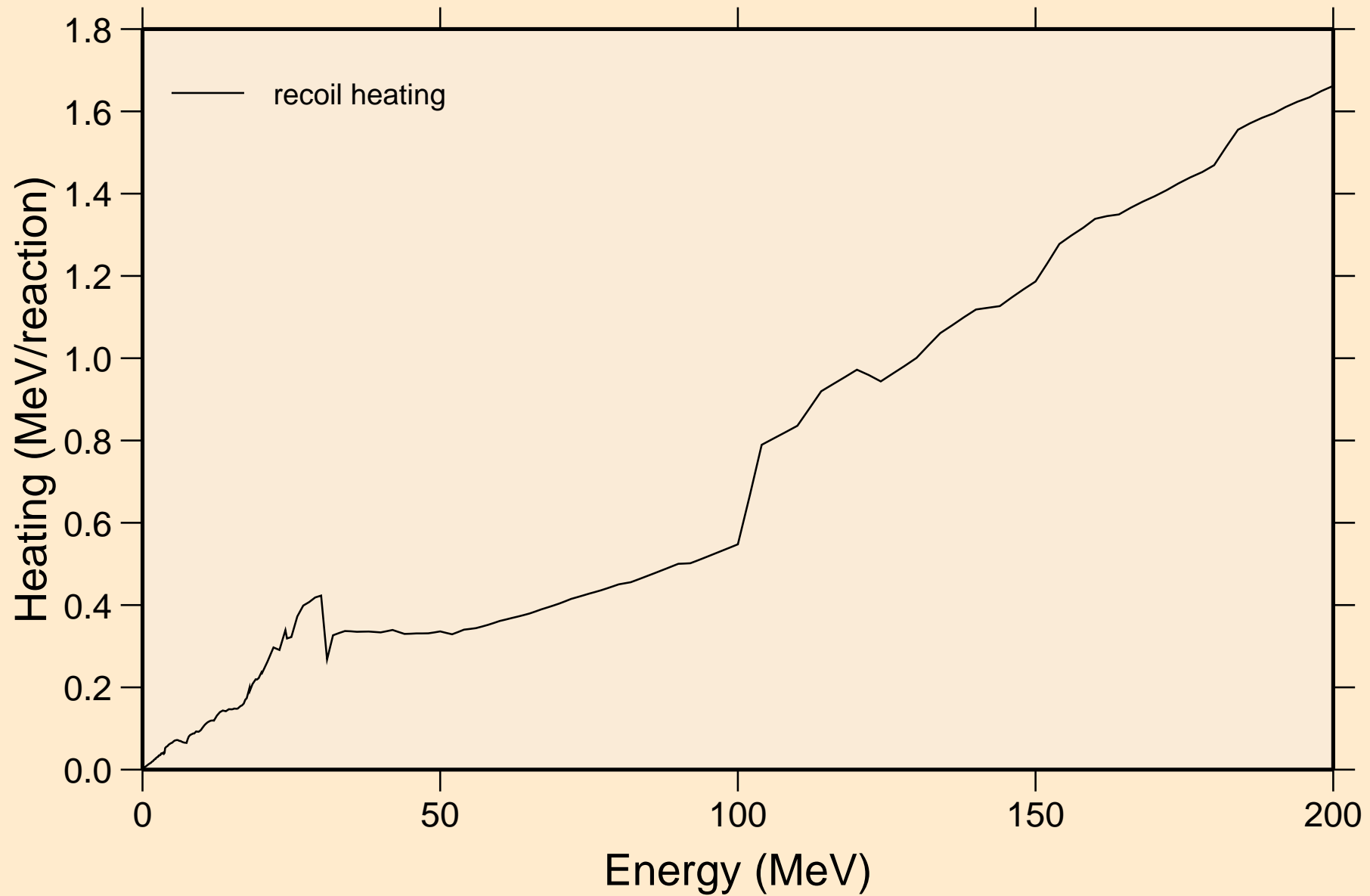


# ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

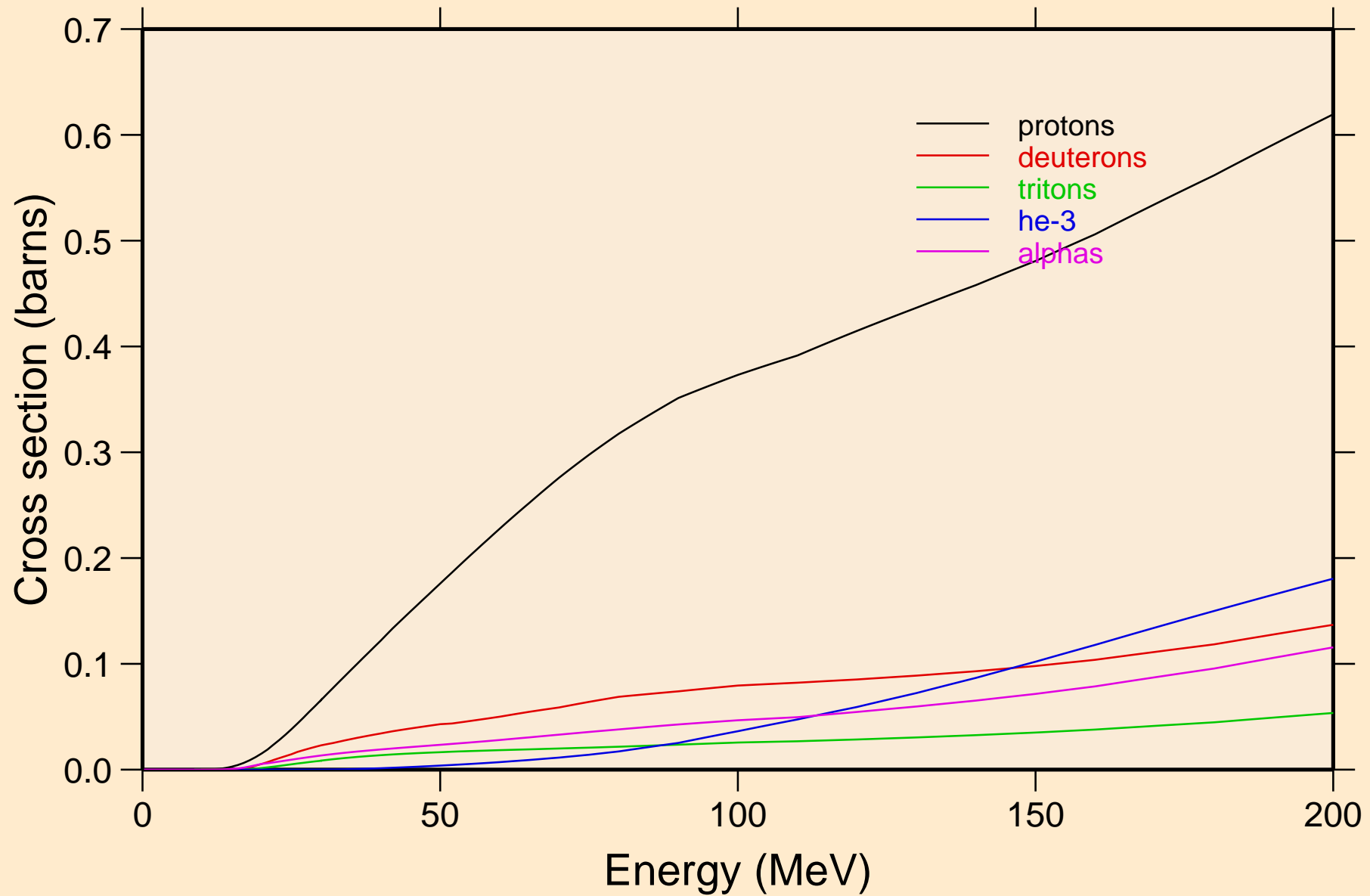
## Particle heating contributions



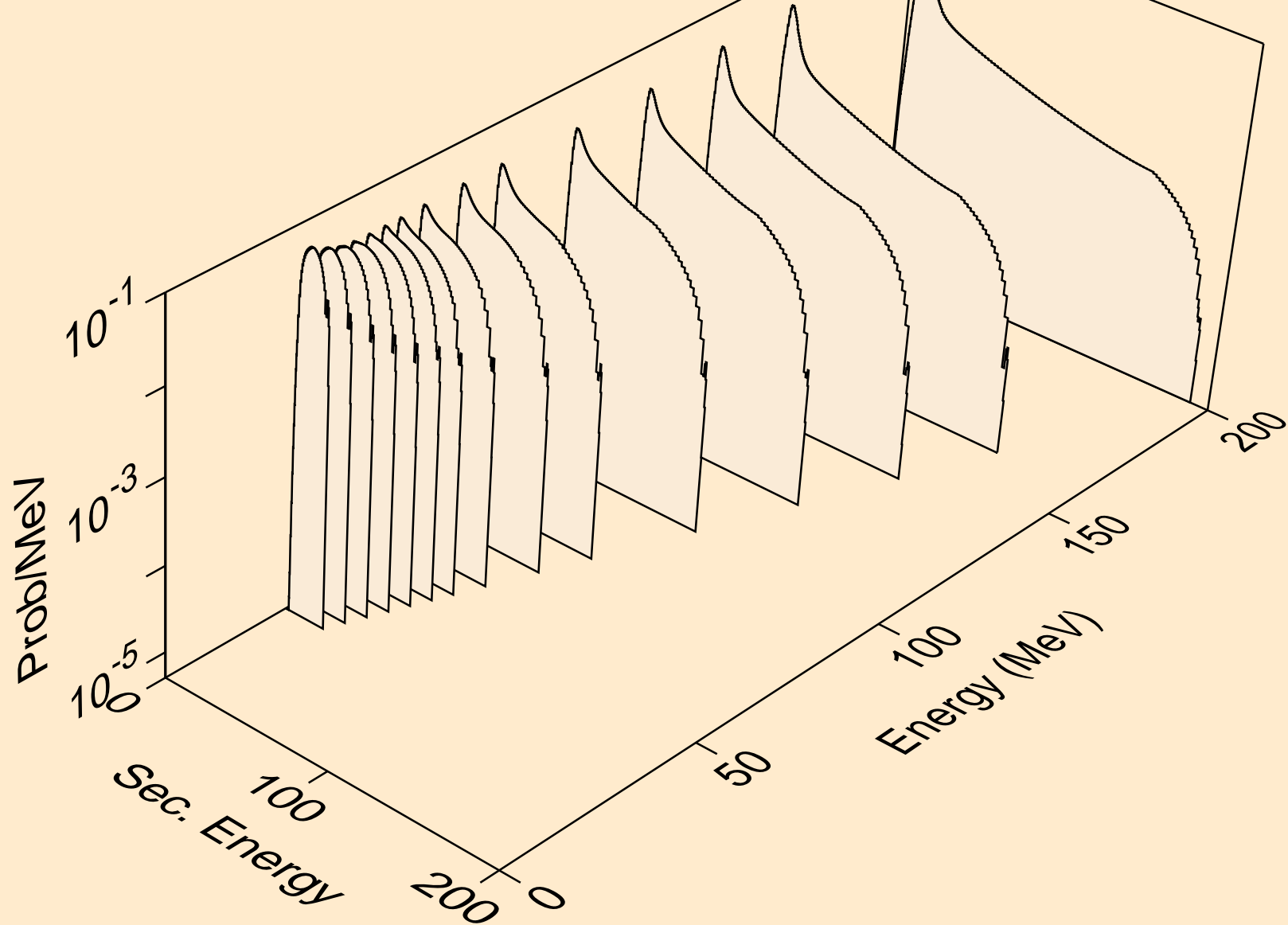
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Recoil Heating



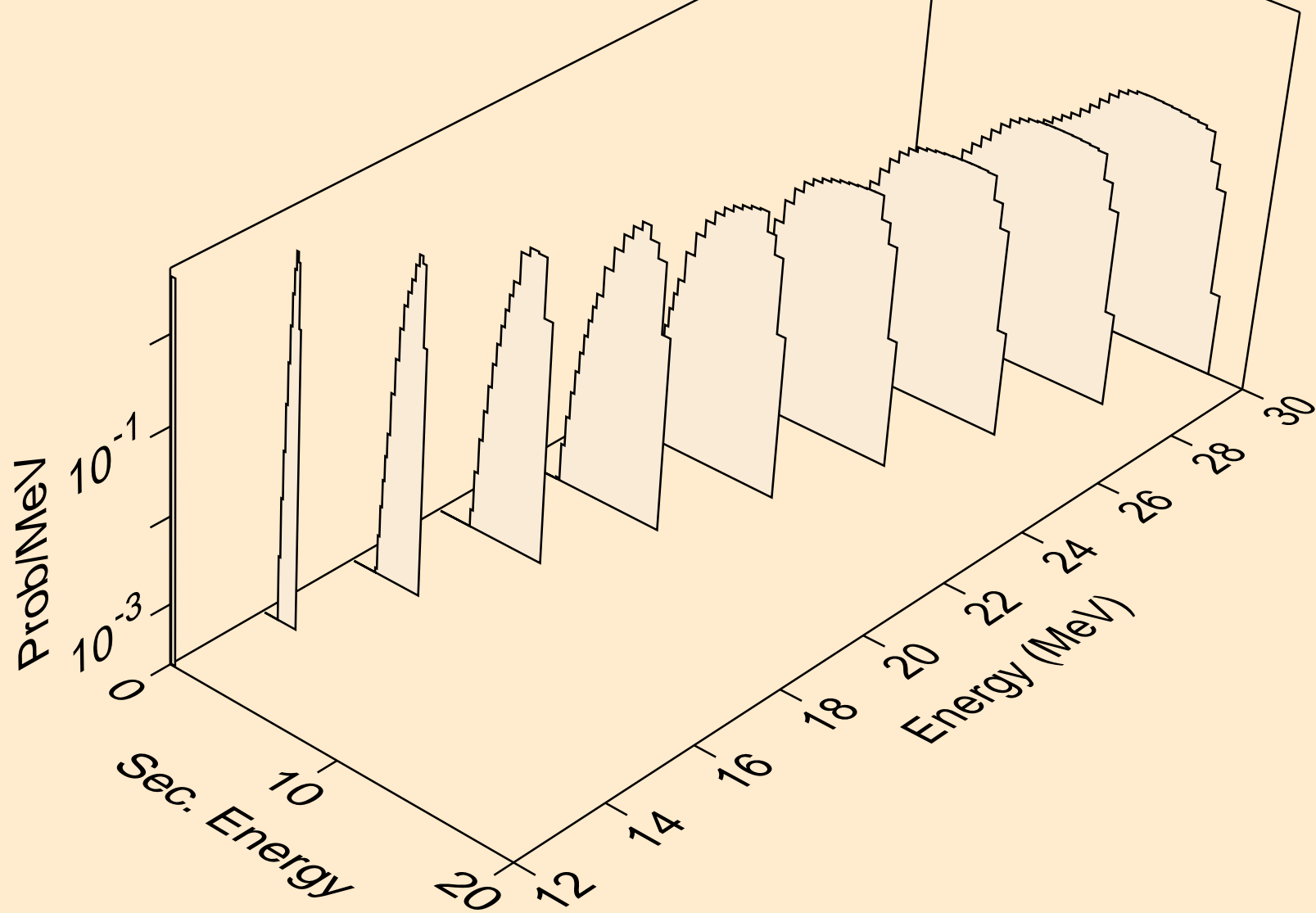
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

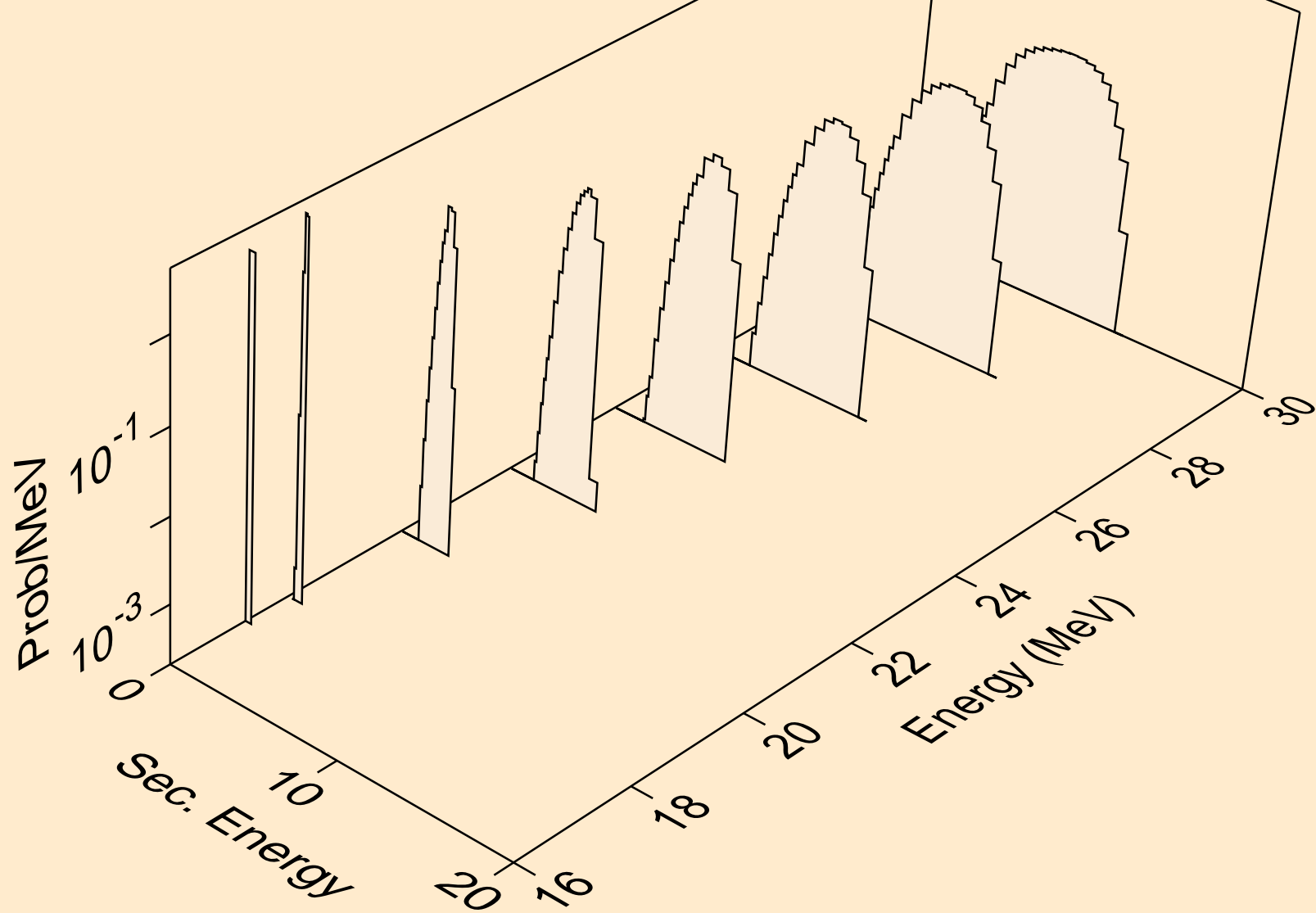


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protons from (n,n\*)p

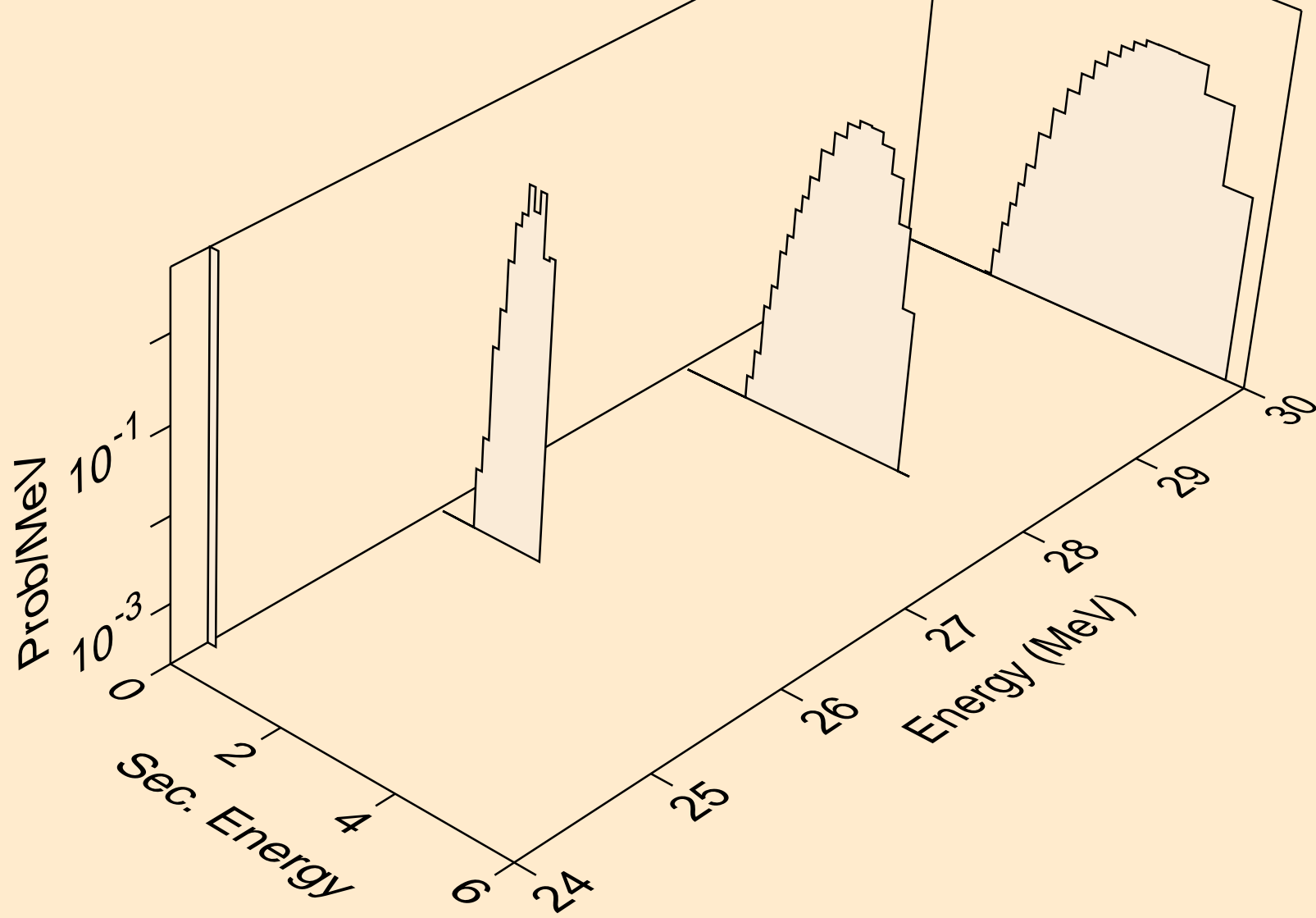




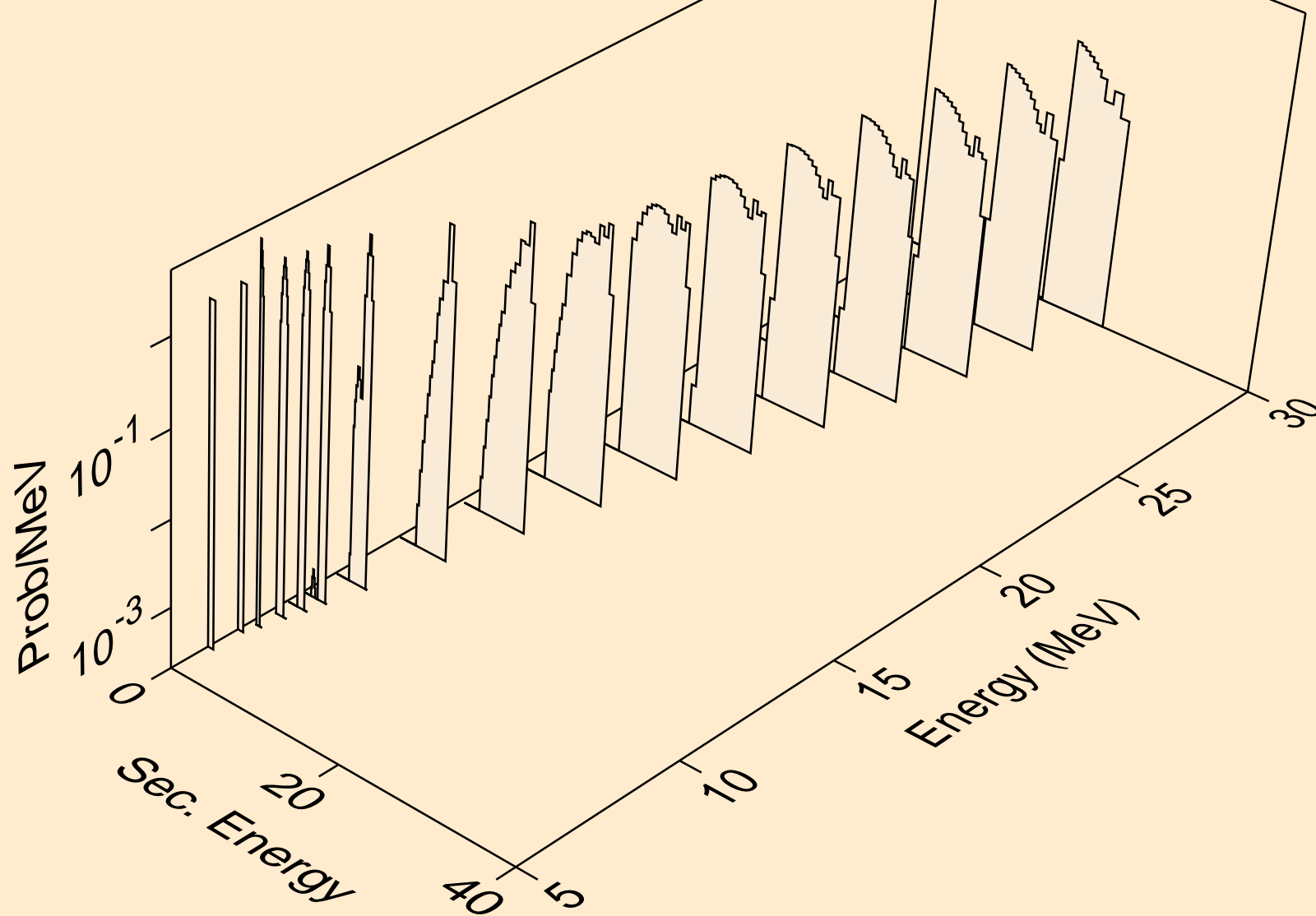
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protons from (n,2np)



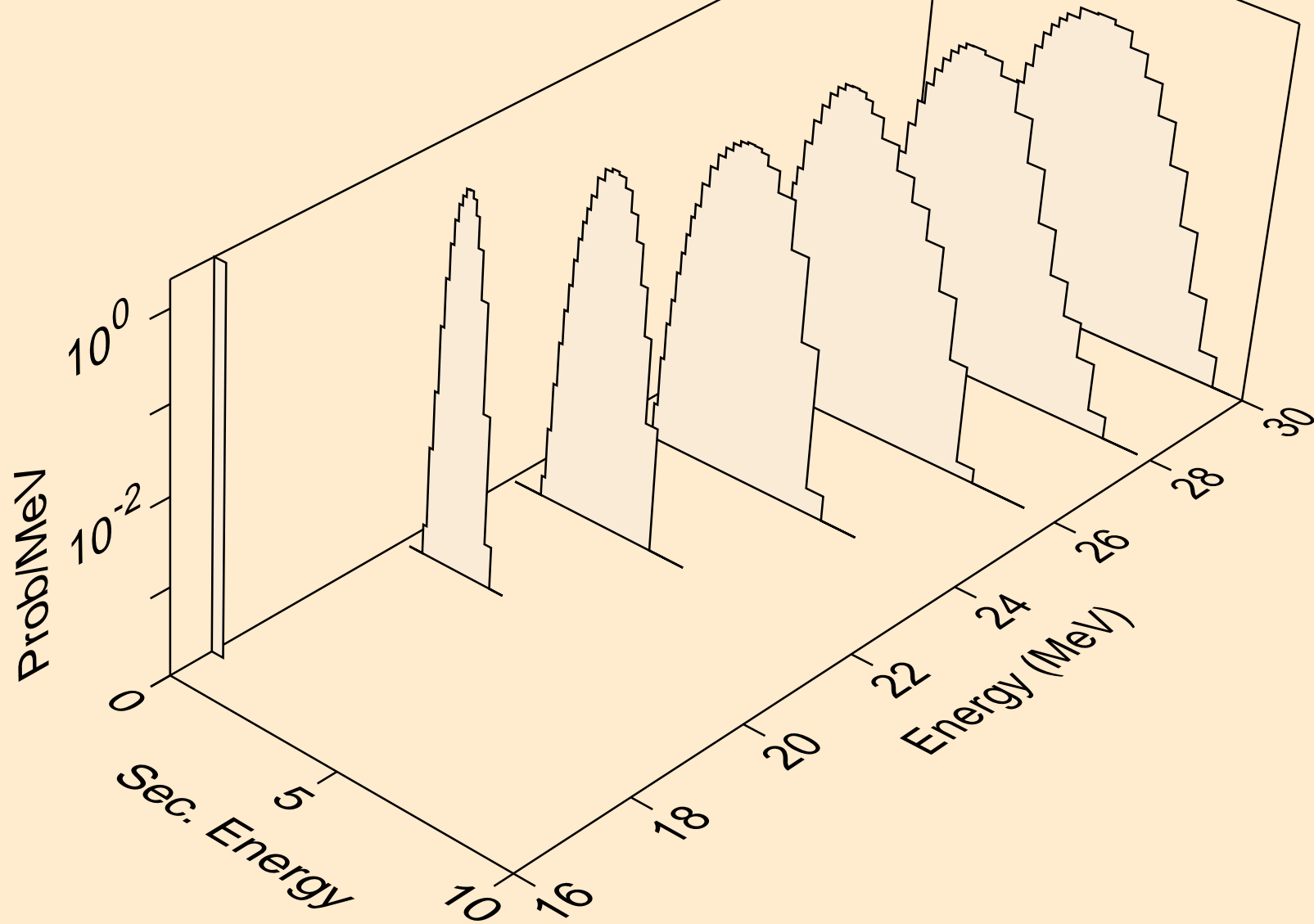
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protons from (n,3np)



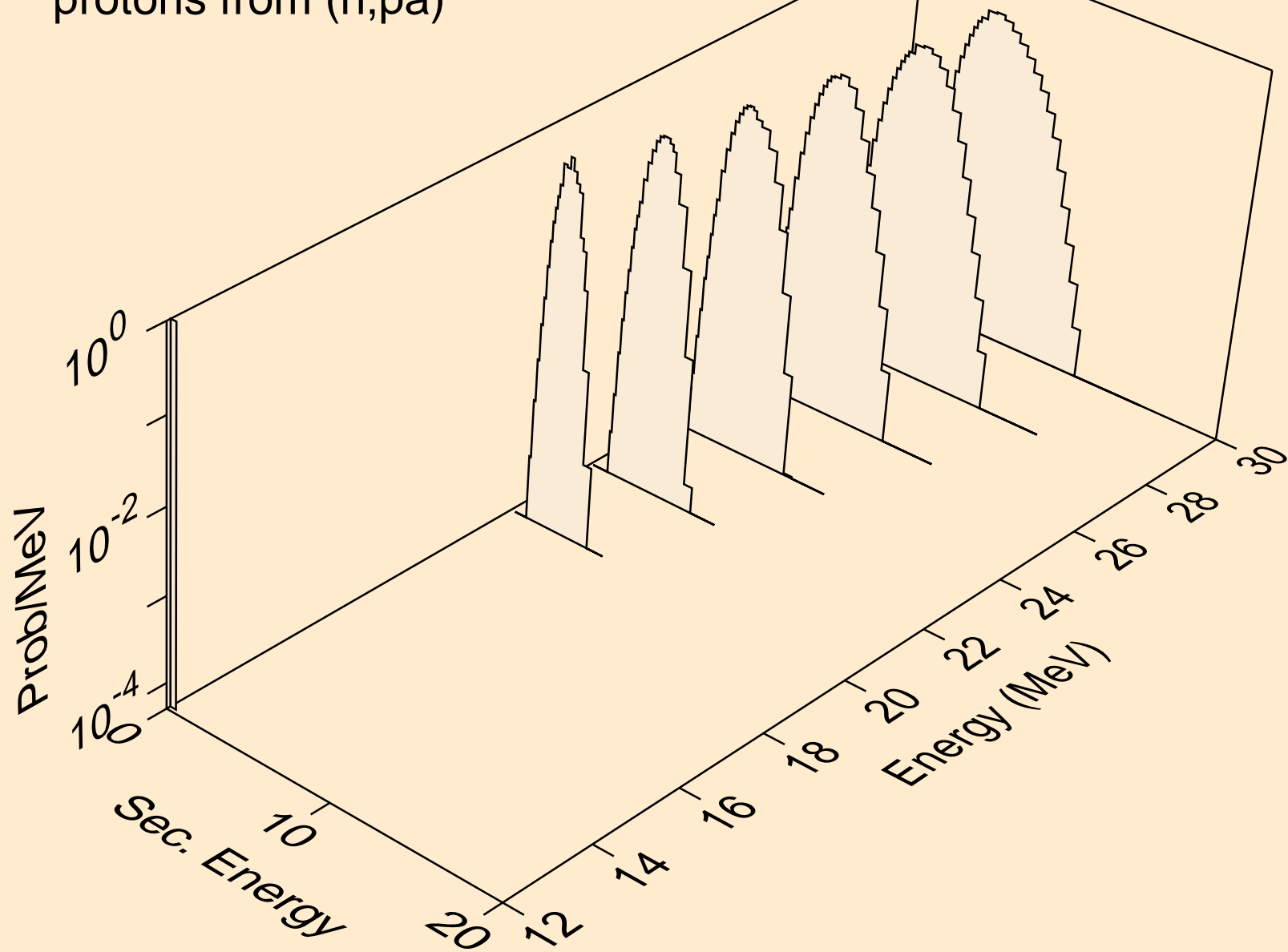
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protons from (n,p)



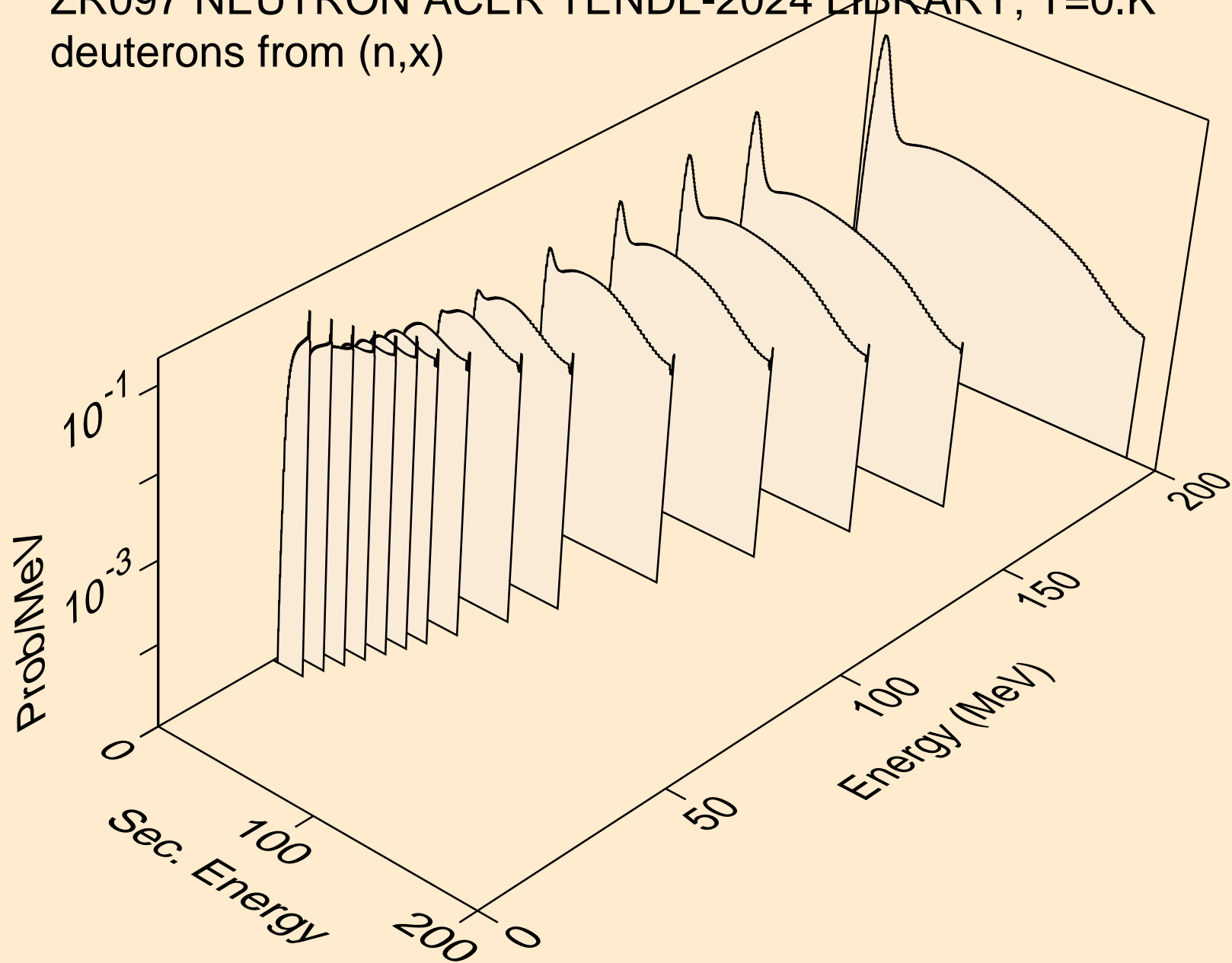
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protons from (n,2p)



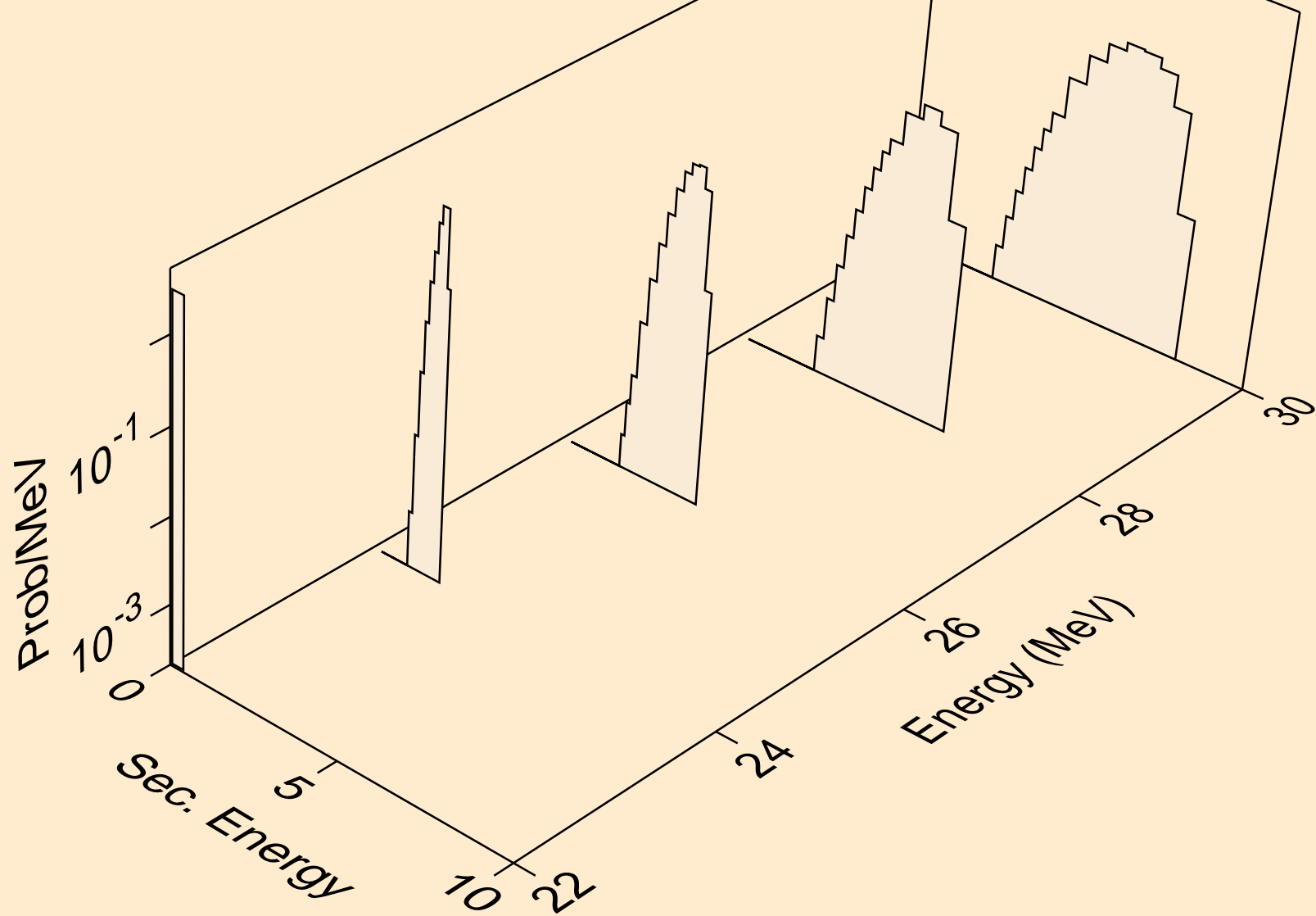
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protons from (n,pa)



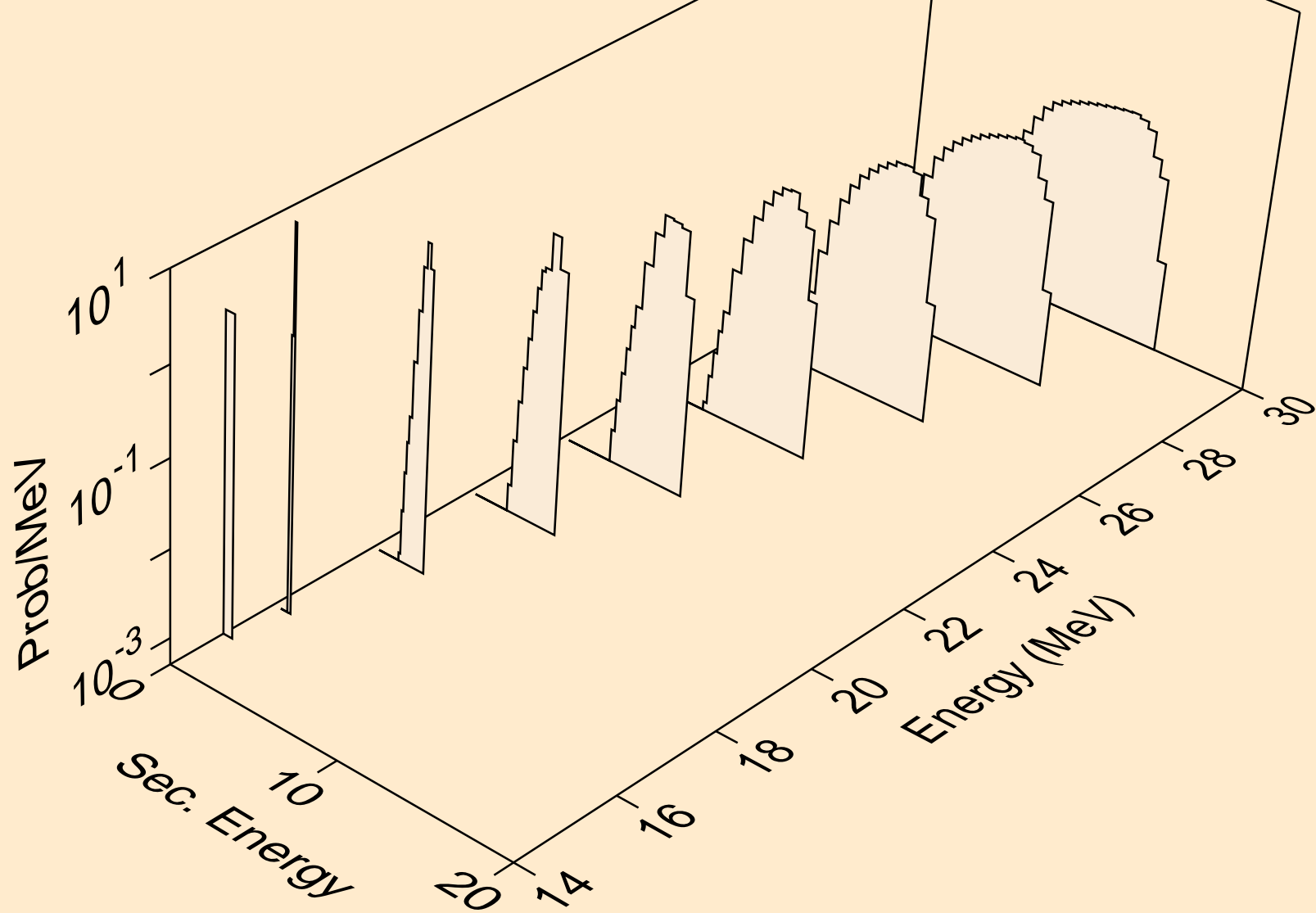
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,2nd)

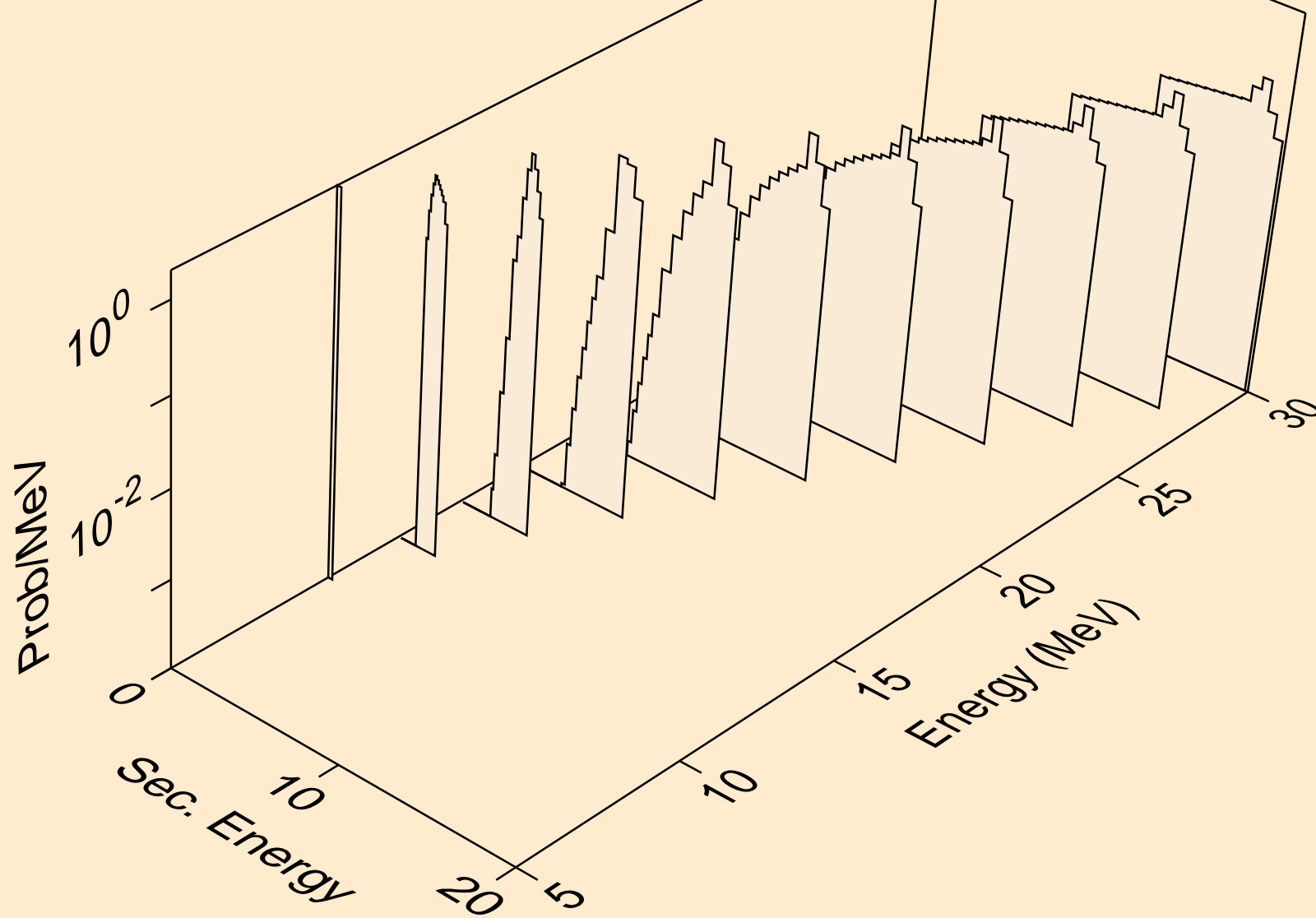


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deuterons from (n,n\*)d

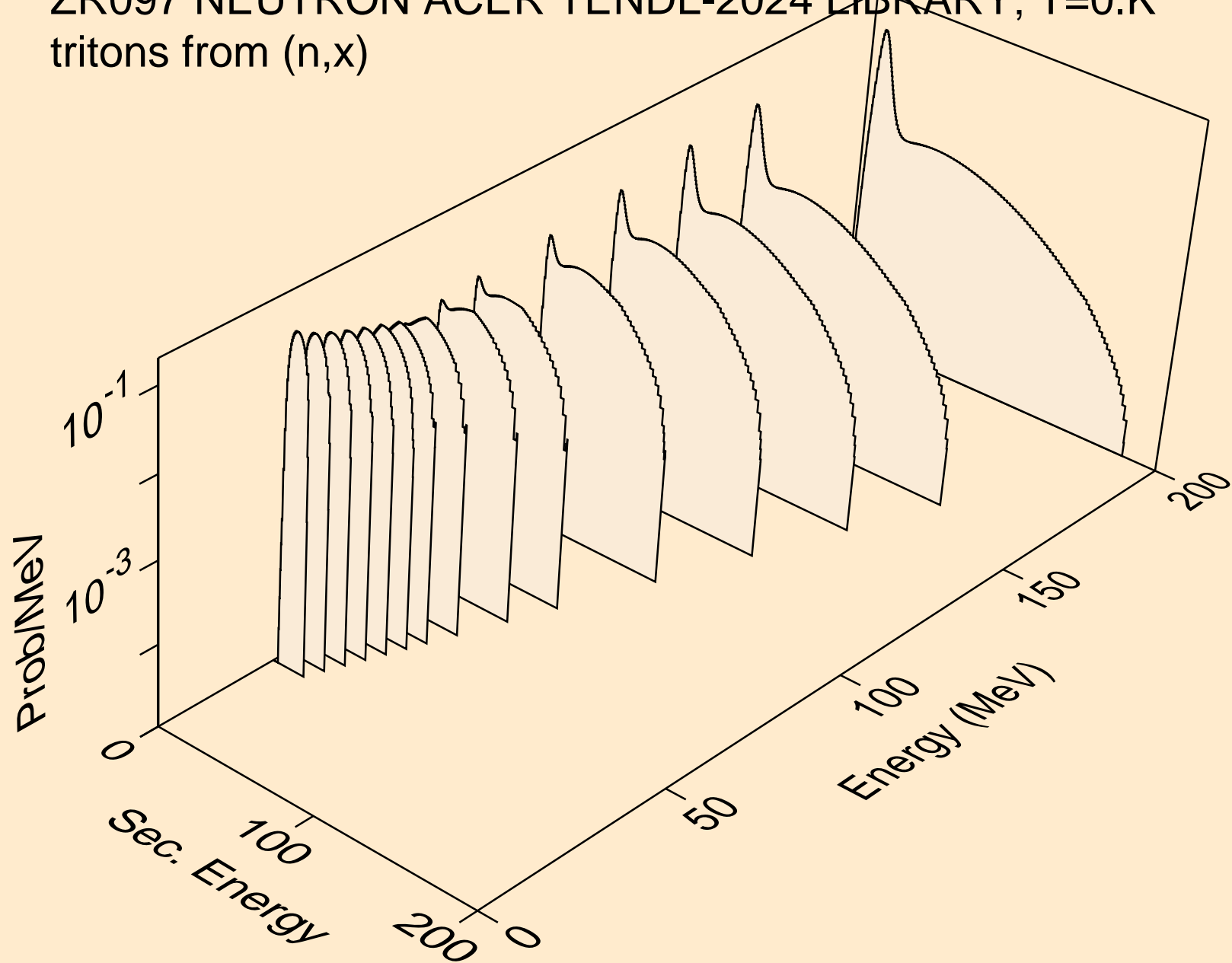




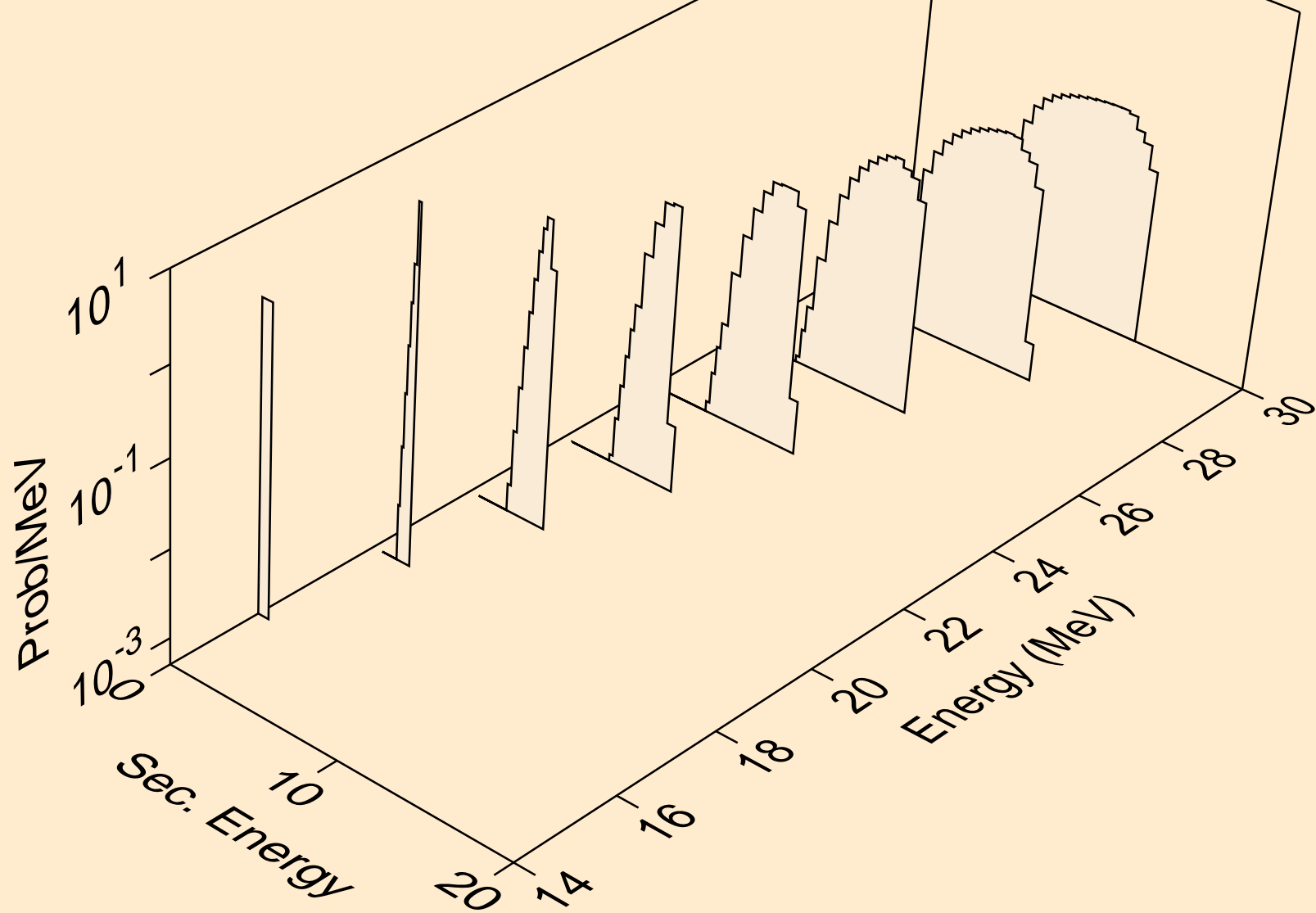
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deuterons from (n,d)



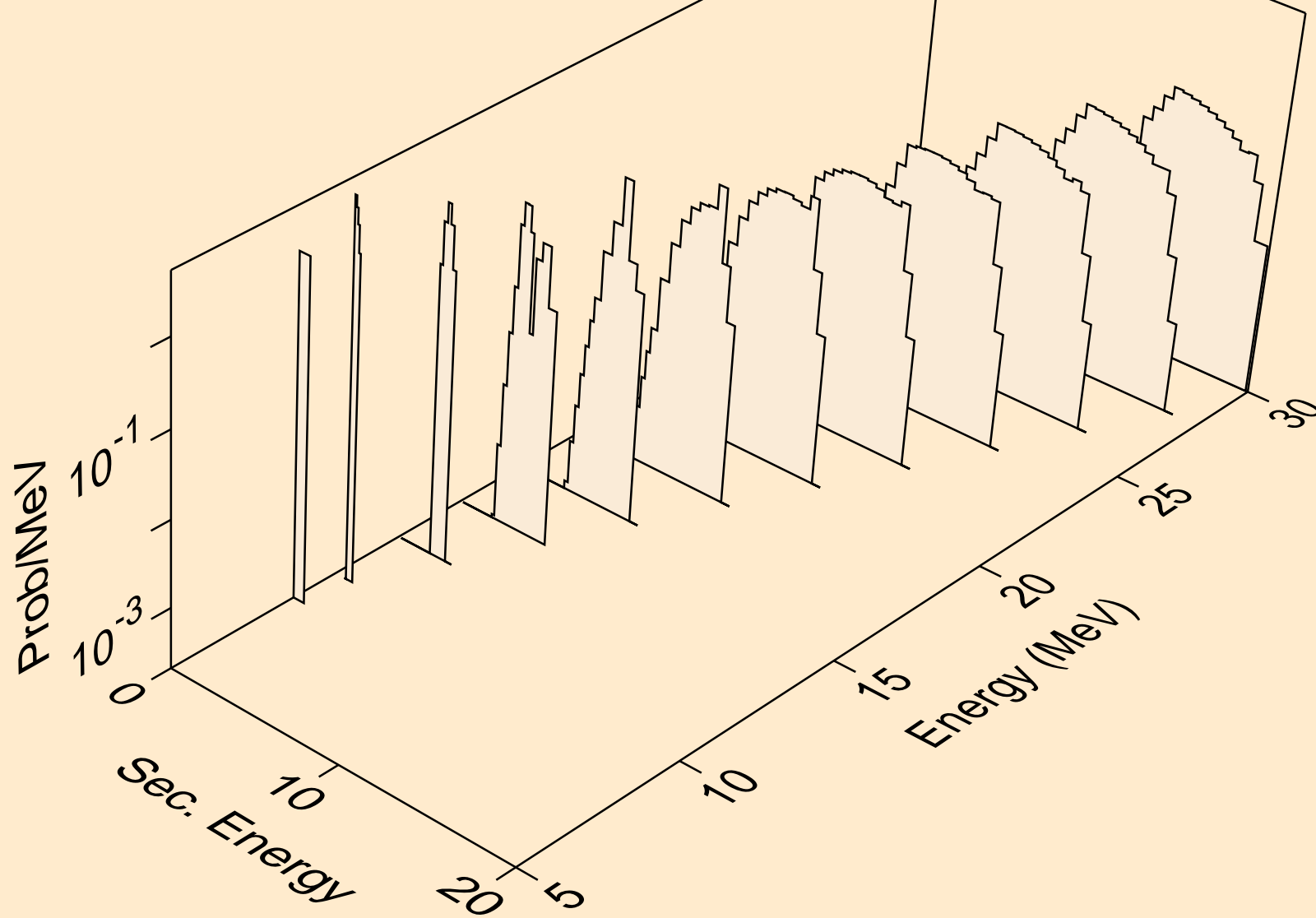
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tritons from (n,x)



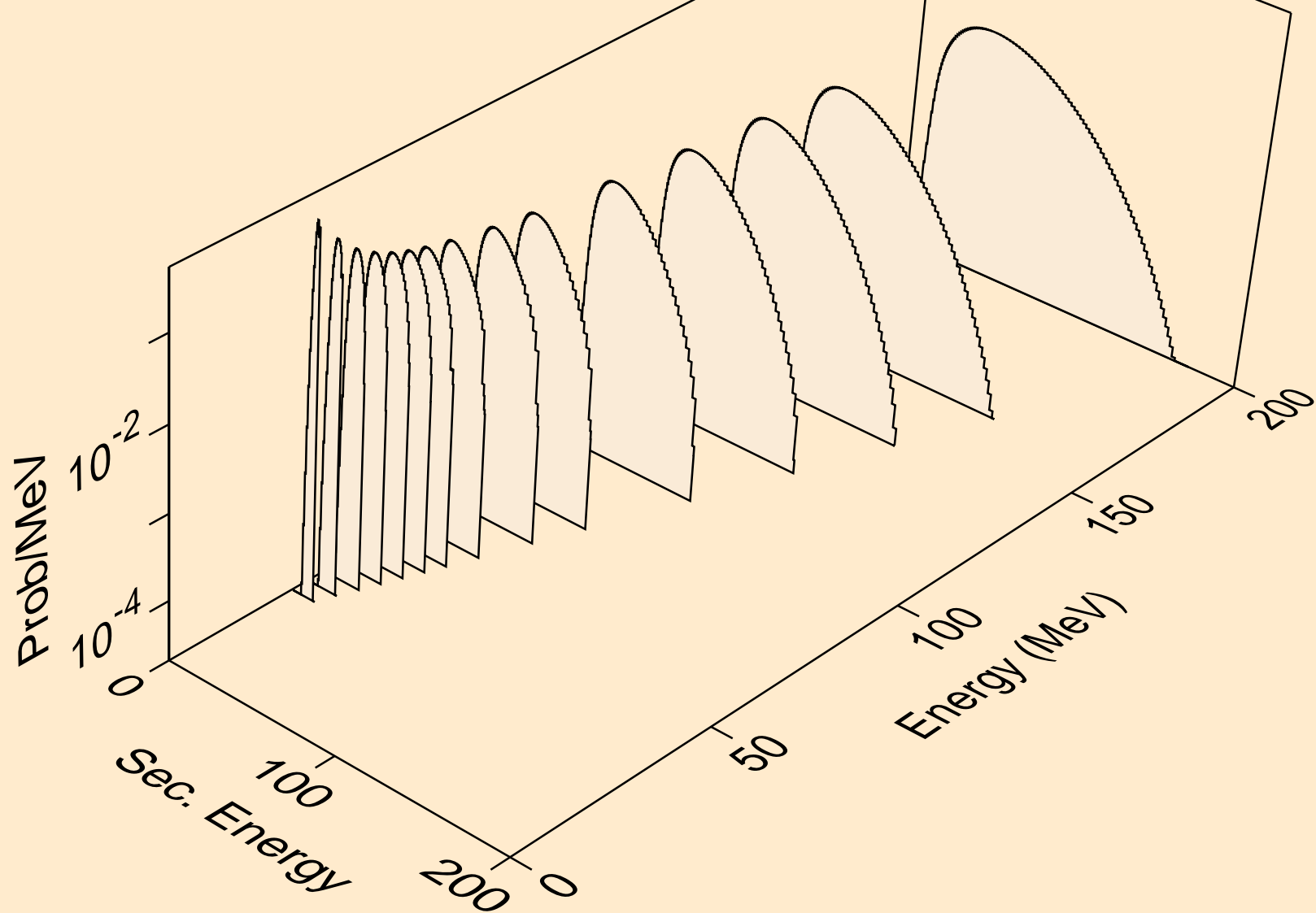
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tritons from (n,n\*)t



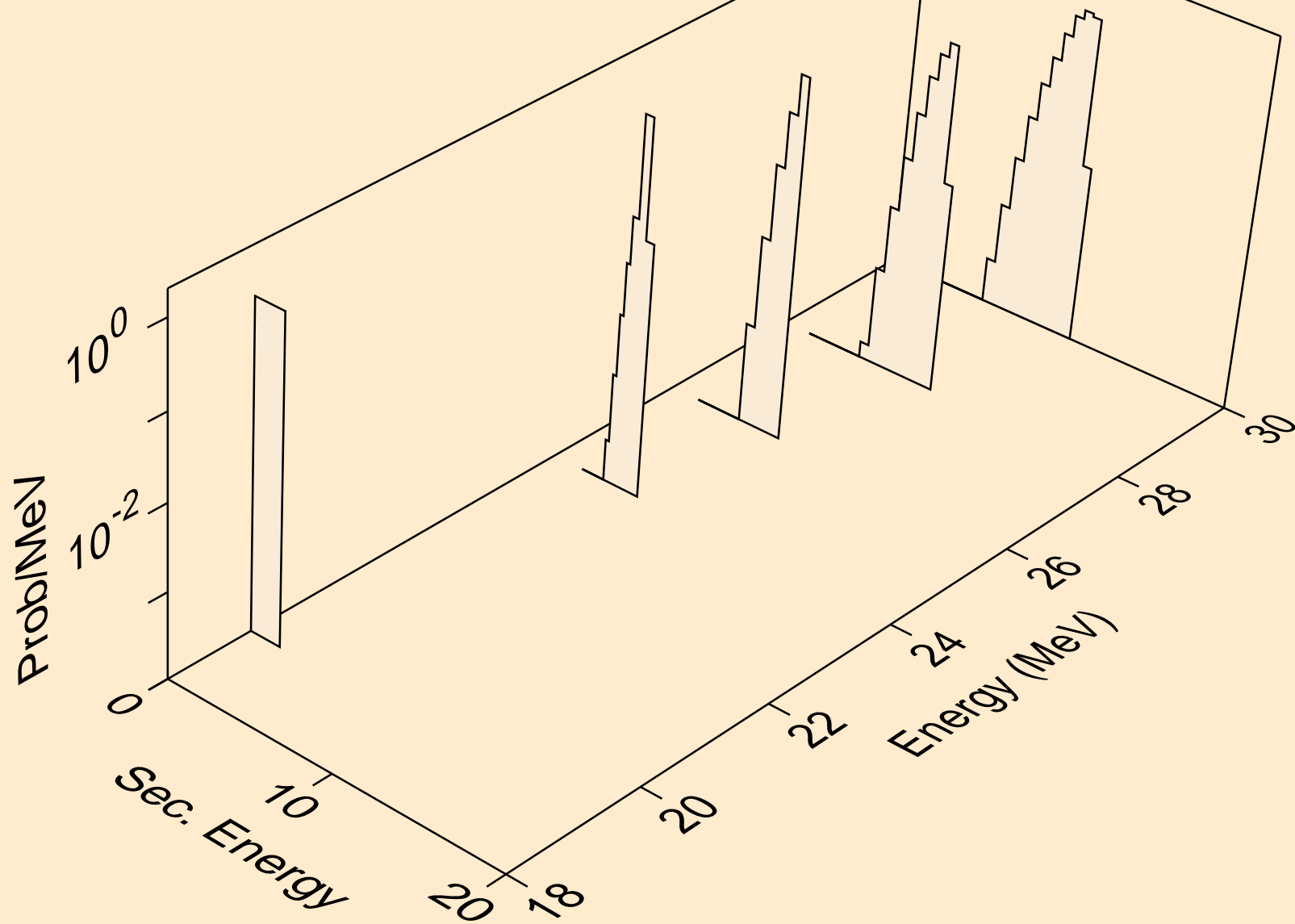
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tritons from (n,t)



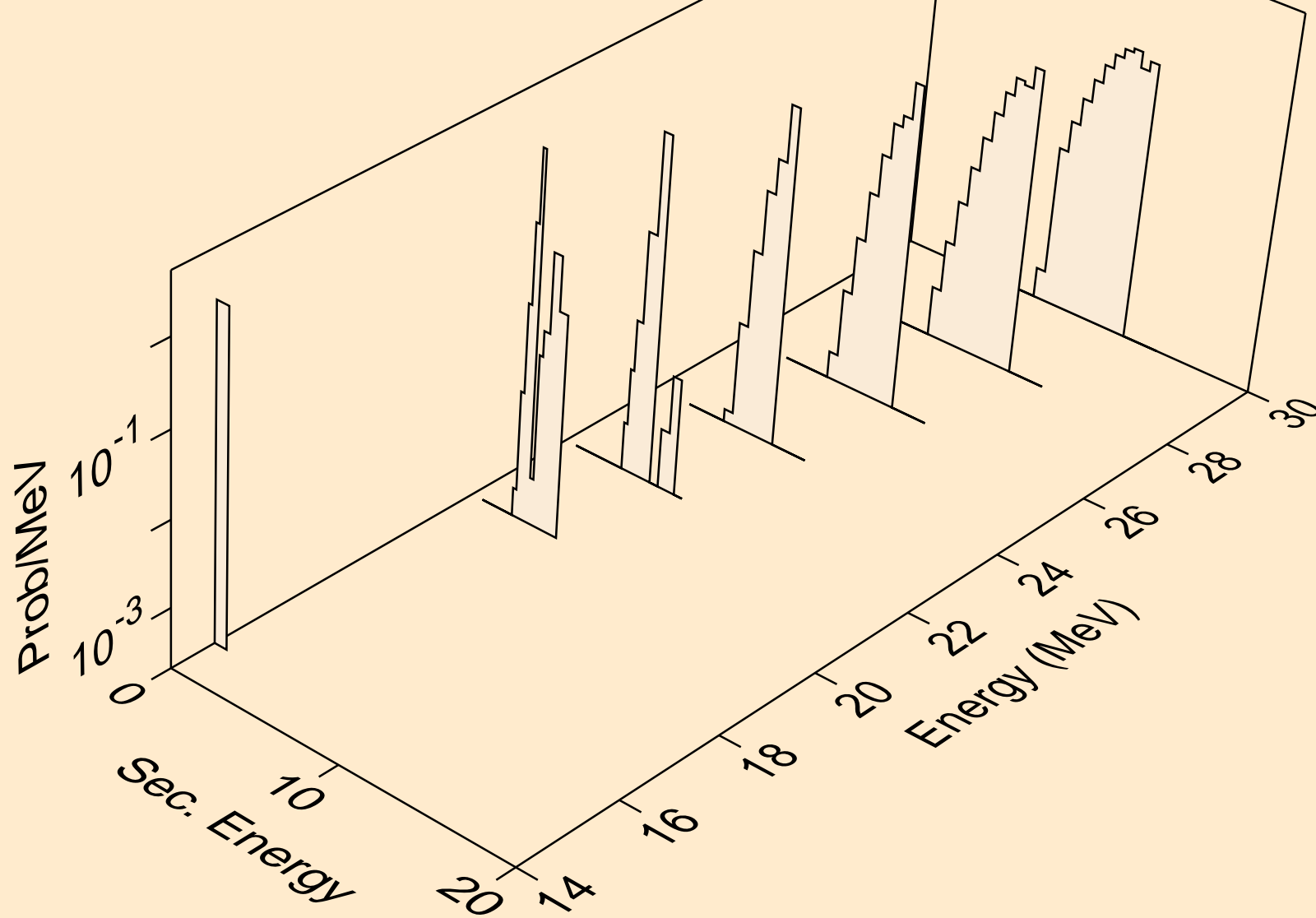
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)



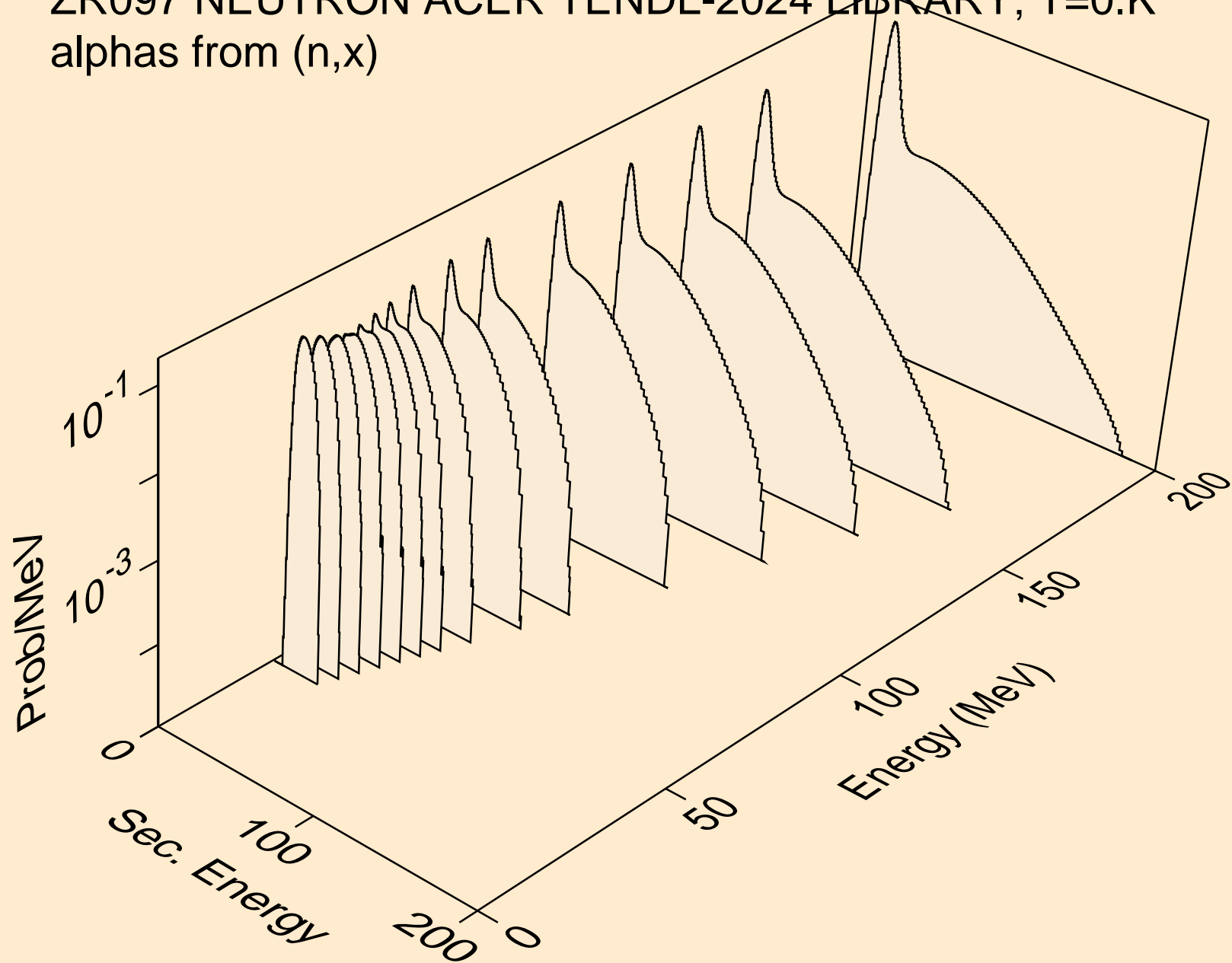
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,he3)

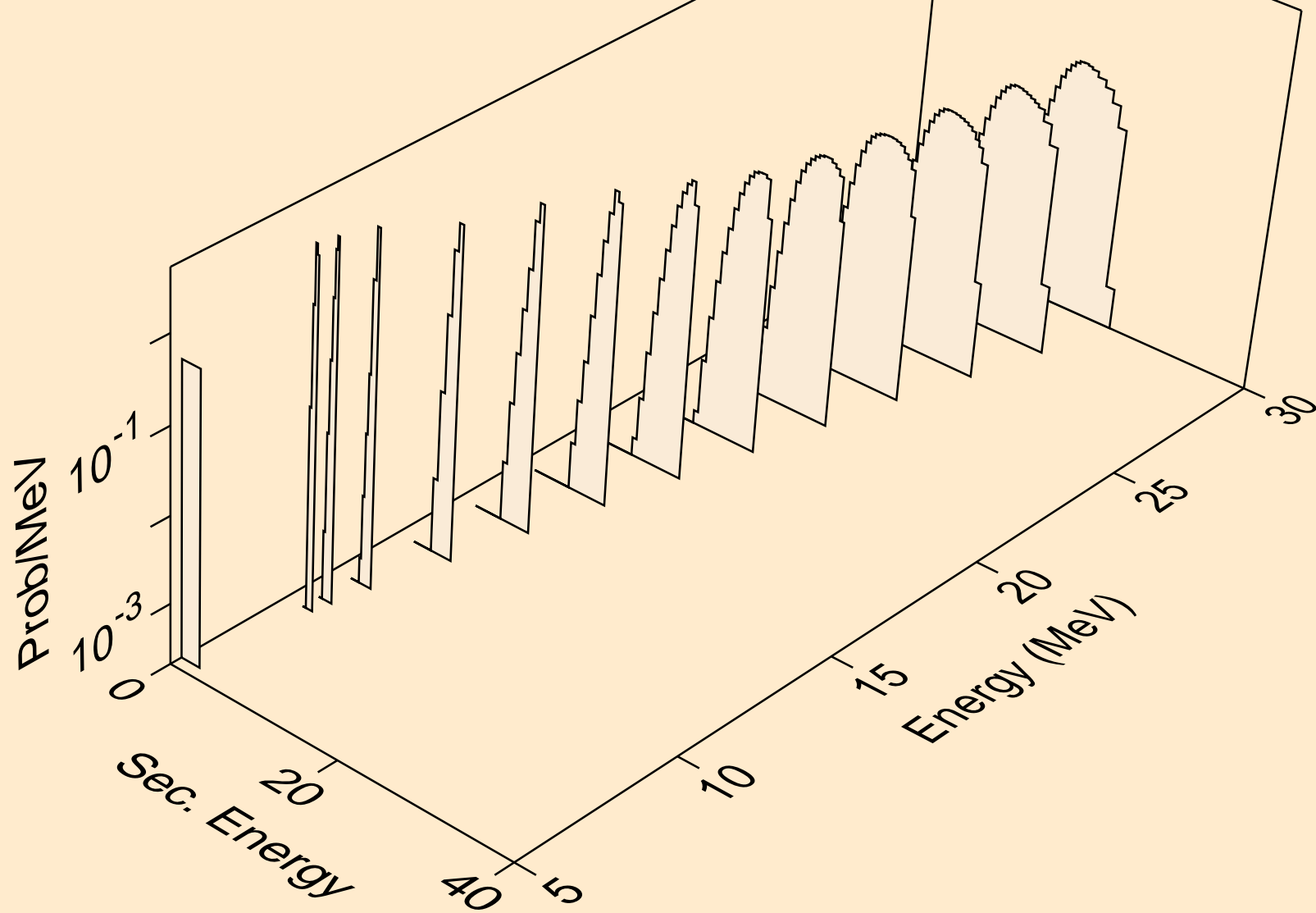


ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)

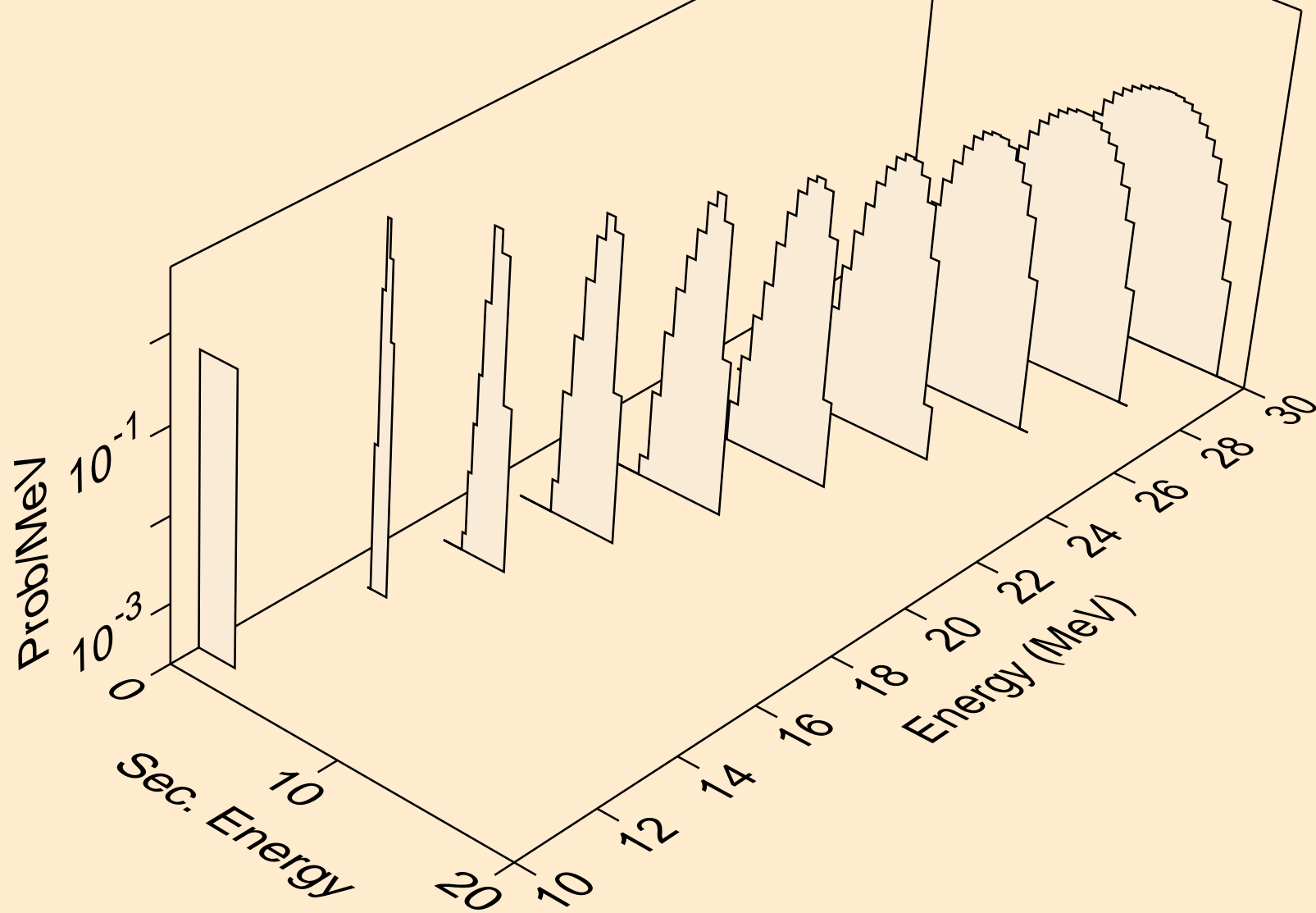




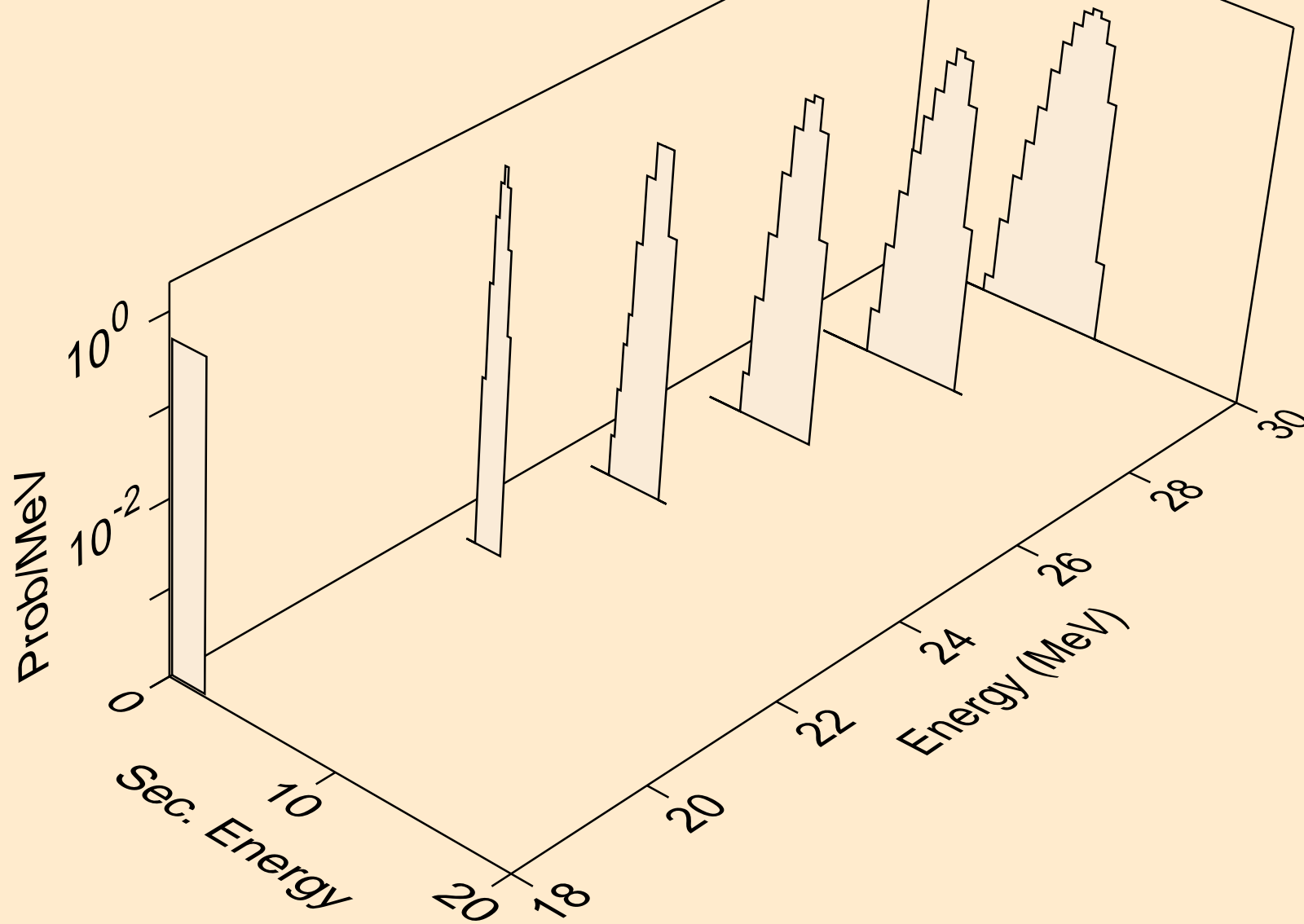
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



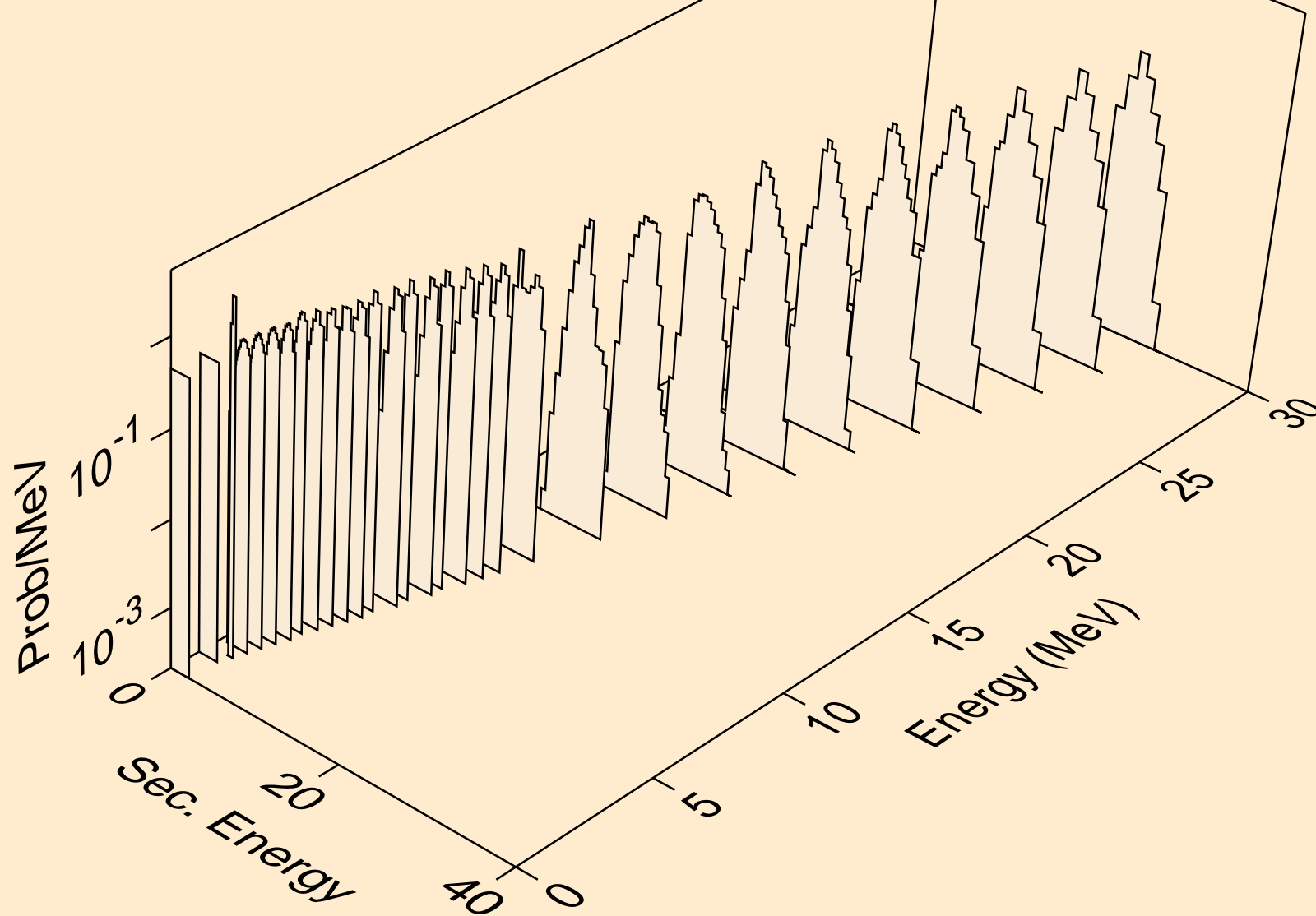
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



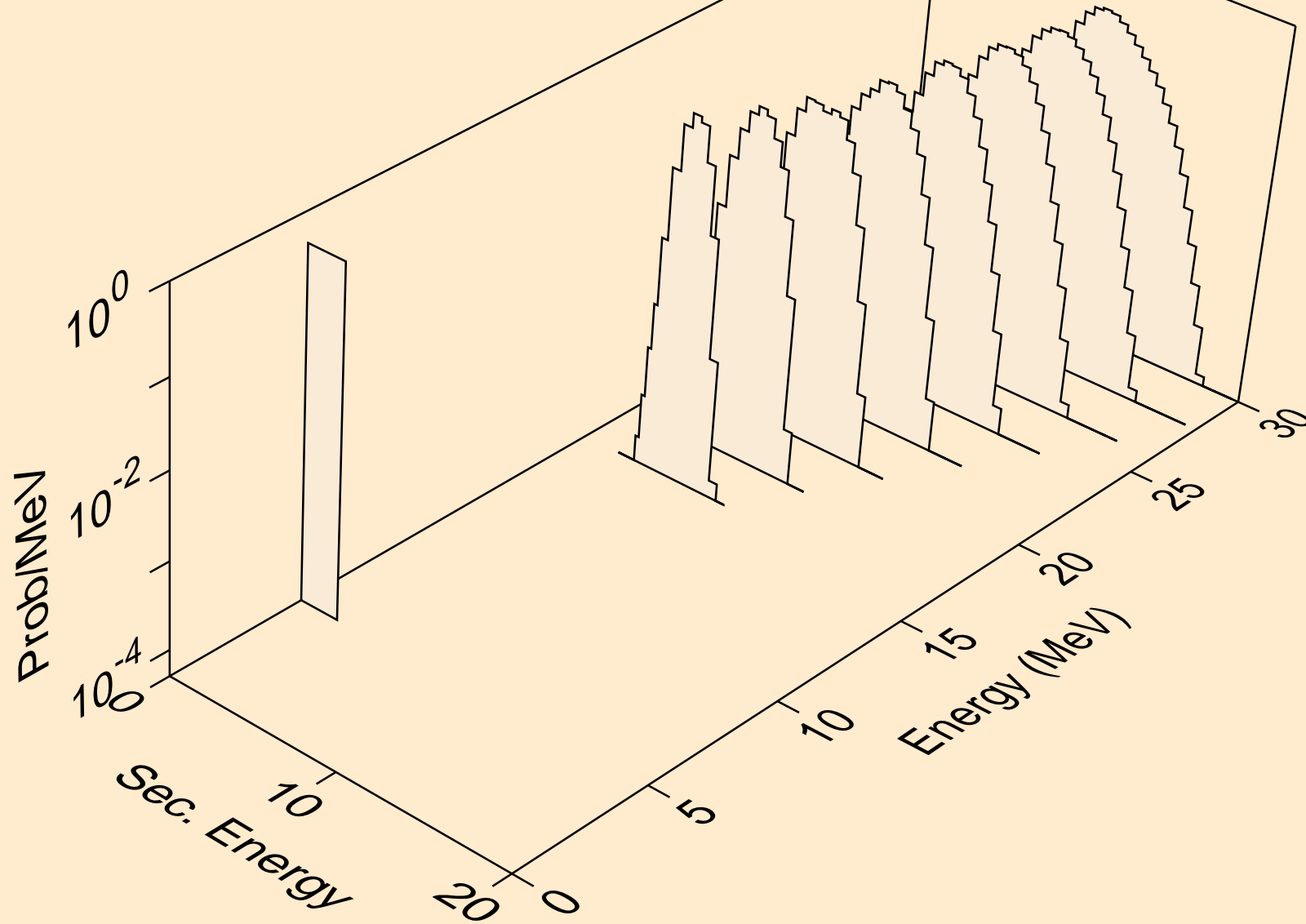
ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



ZR097 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)

