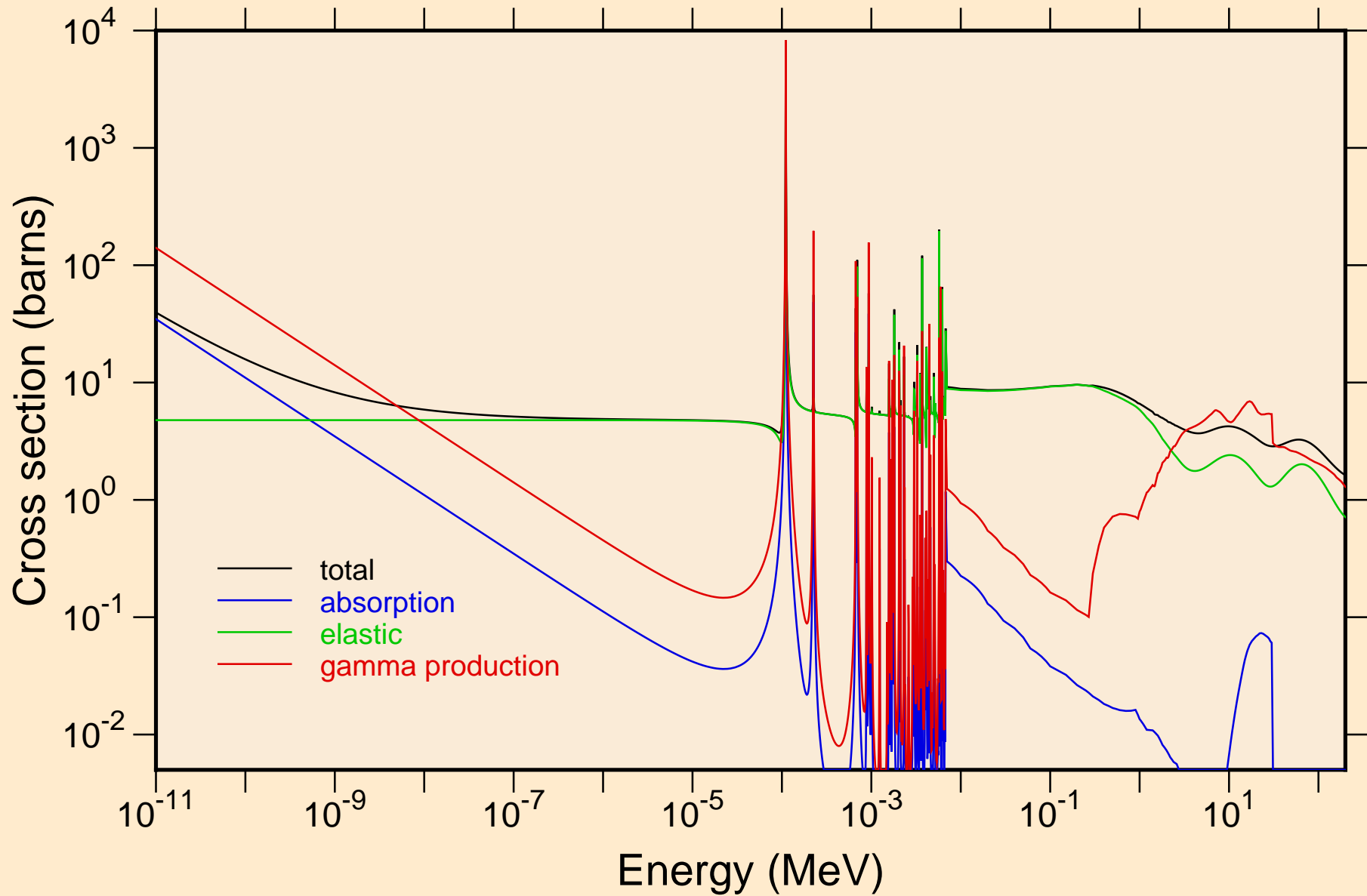
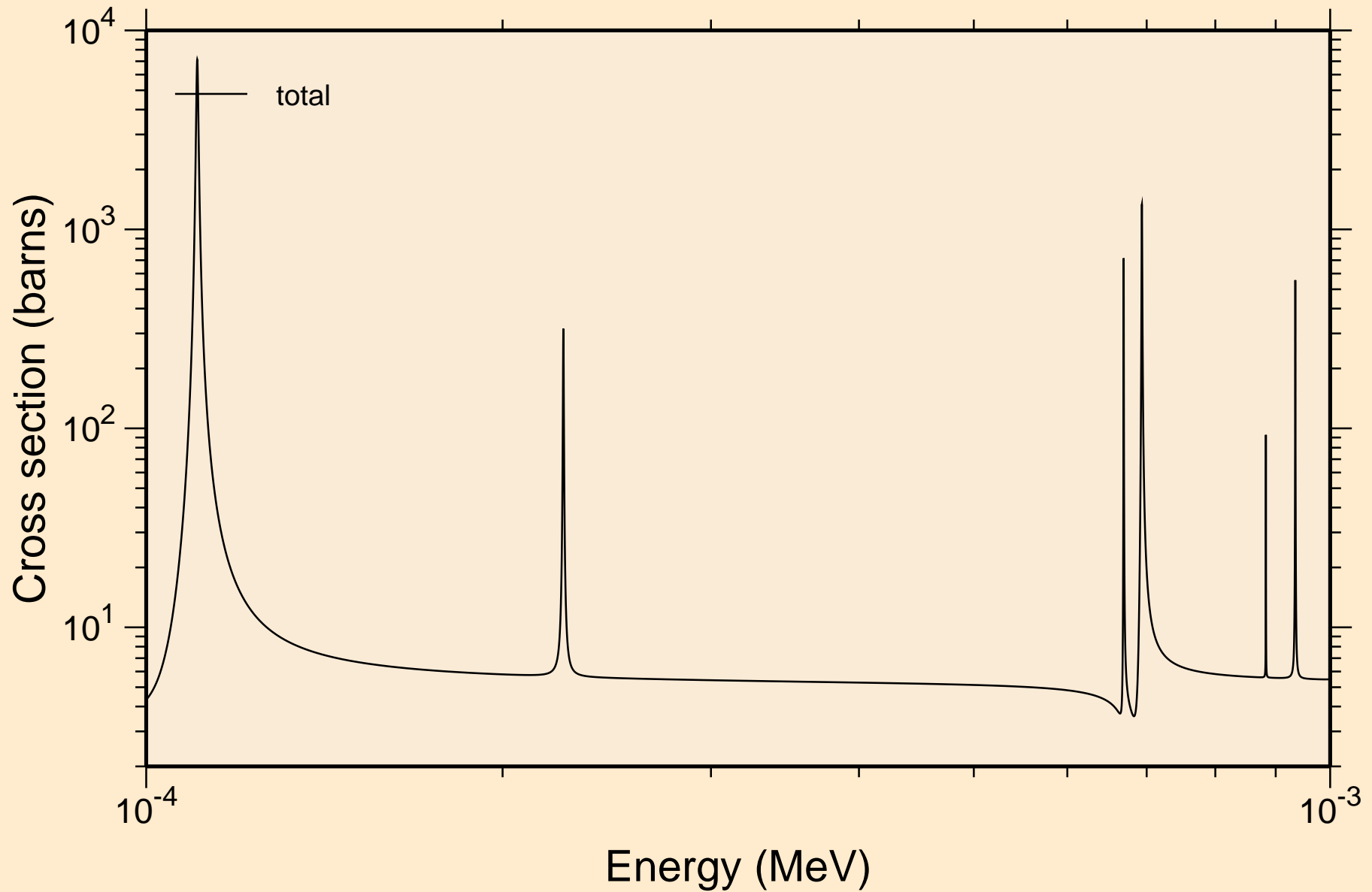


# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

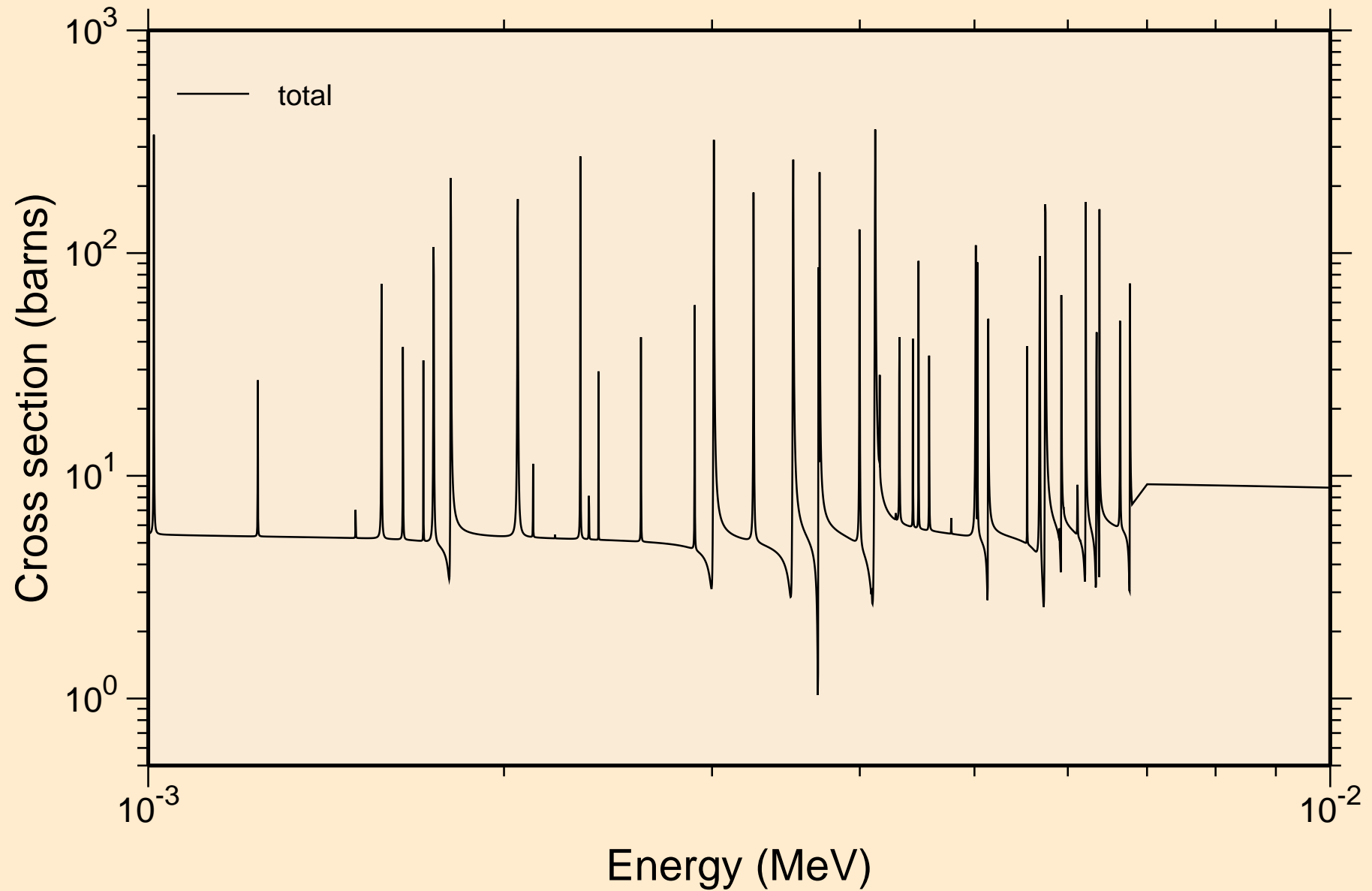
## Principal cross sections



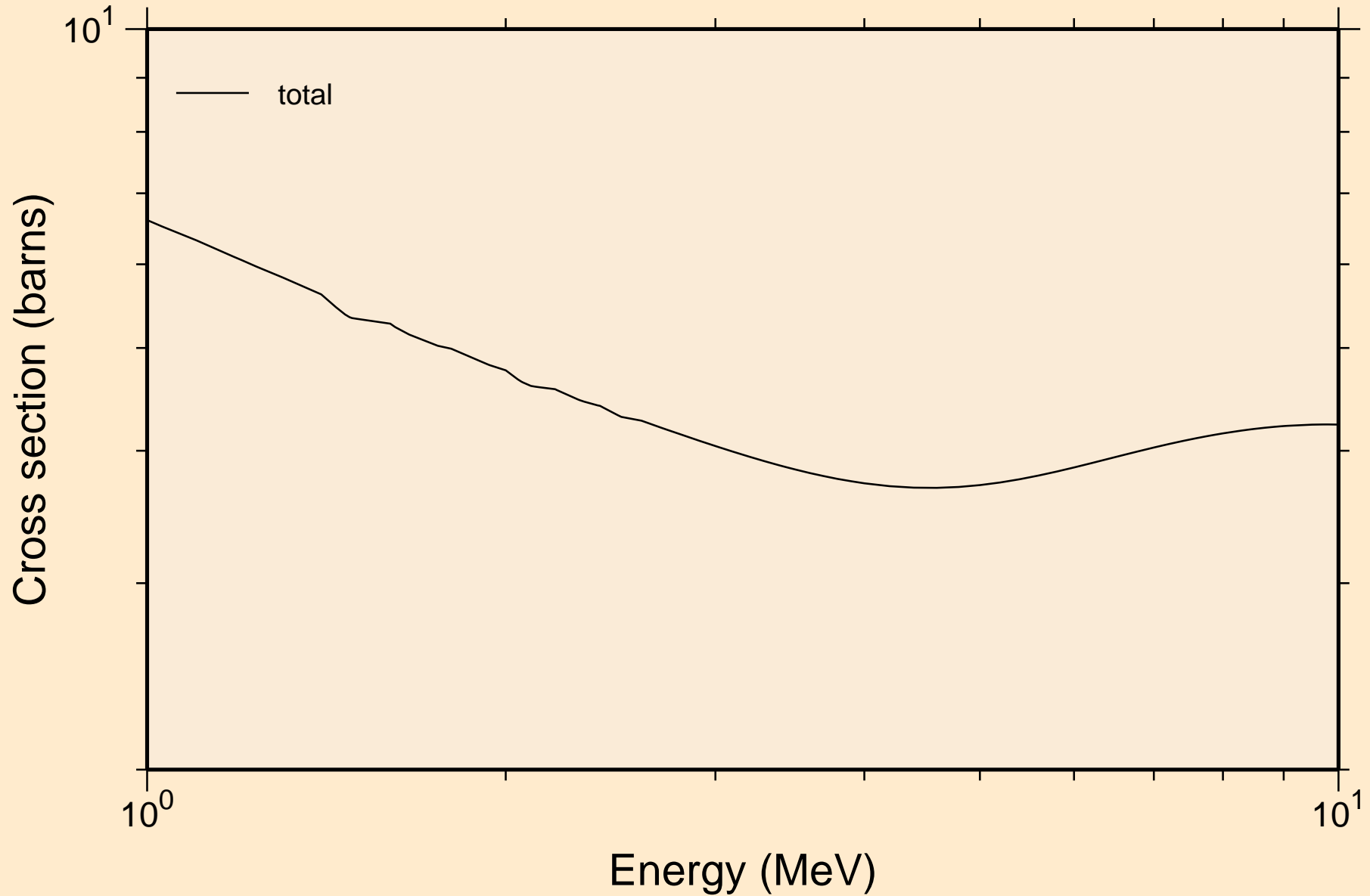
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



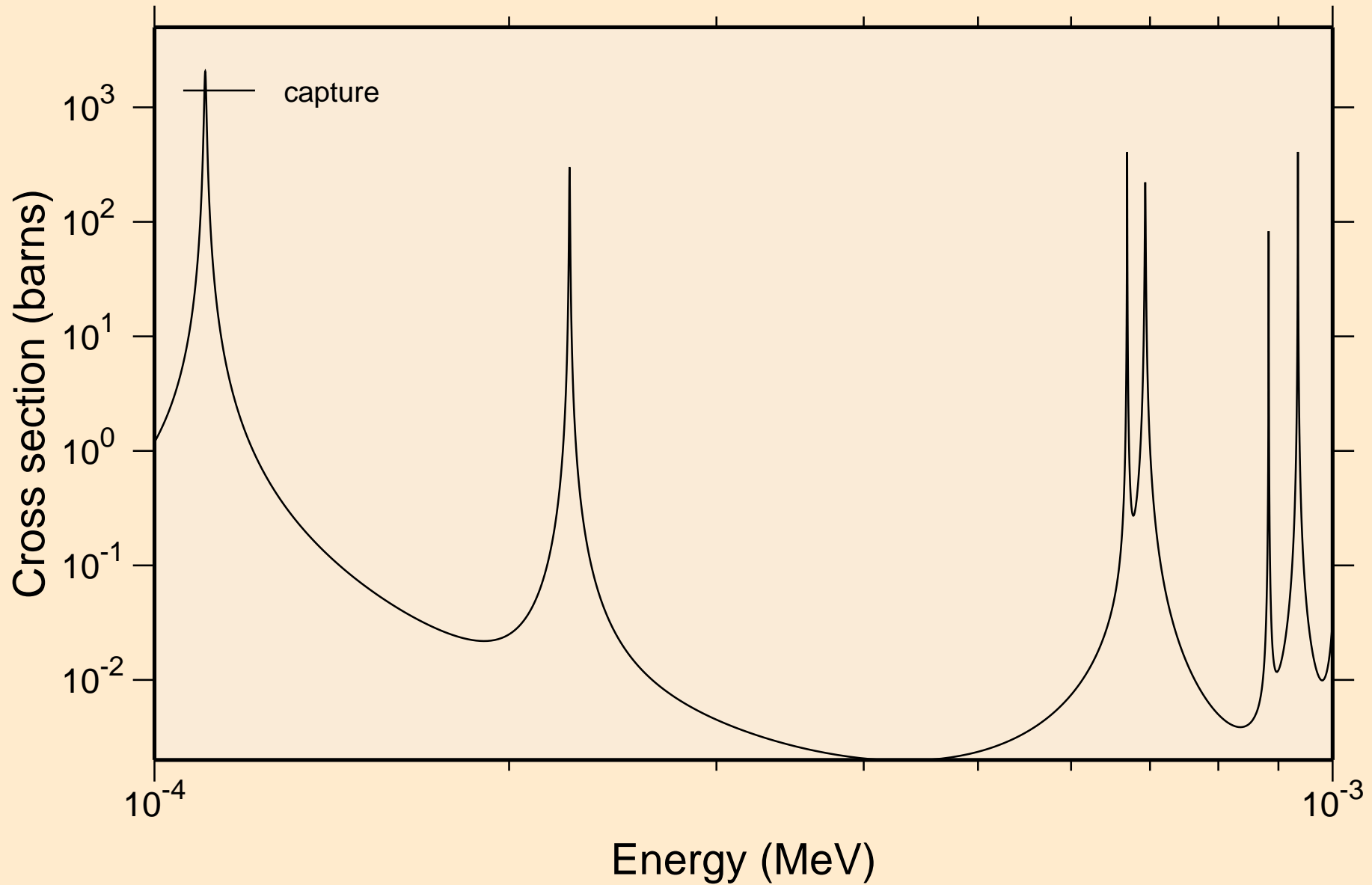
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



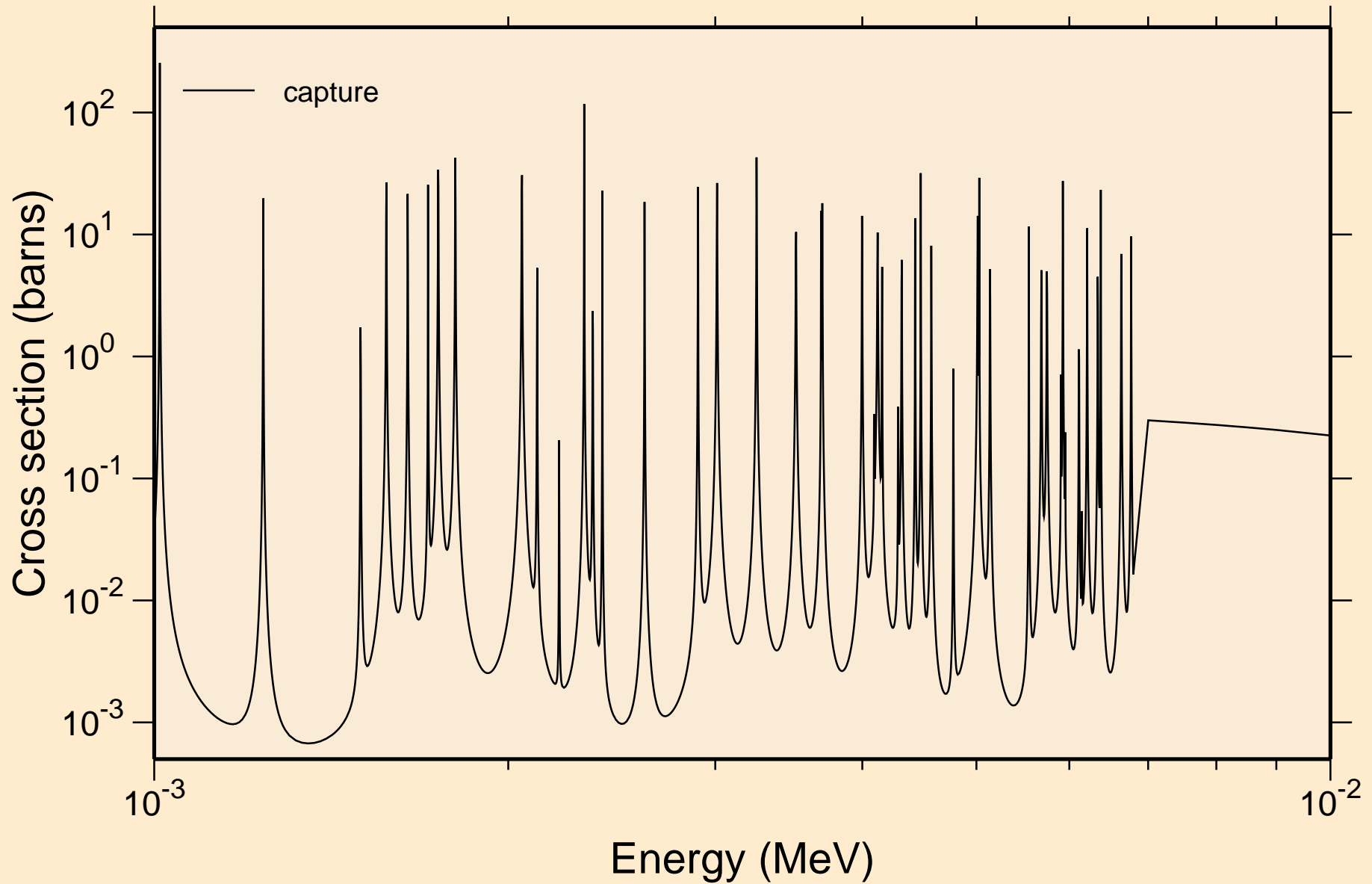
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



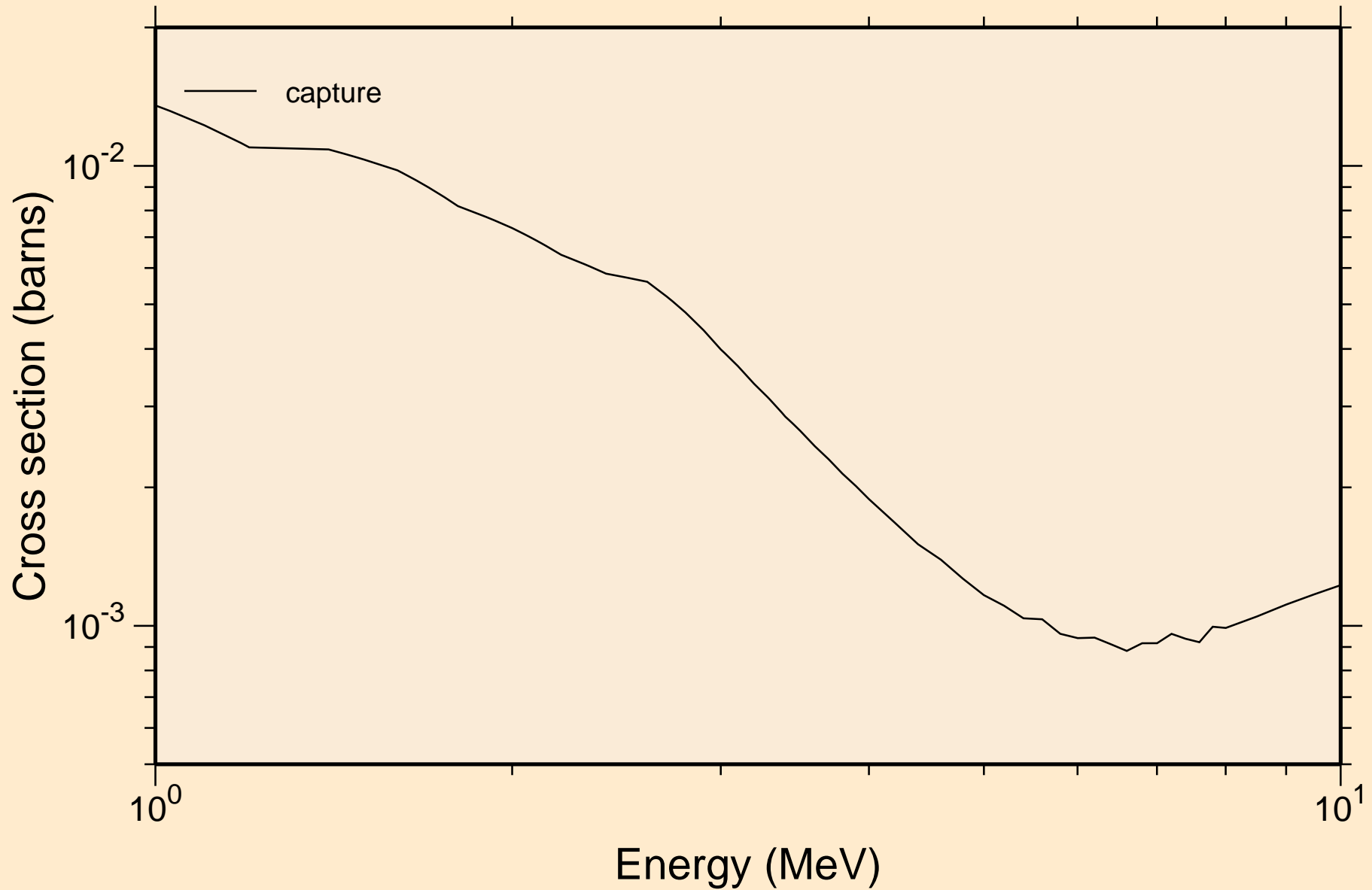
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

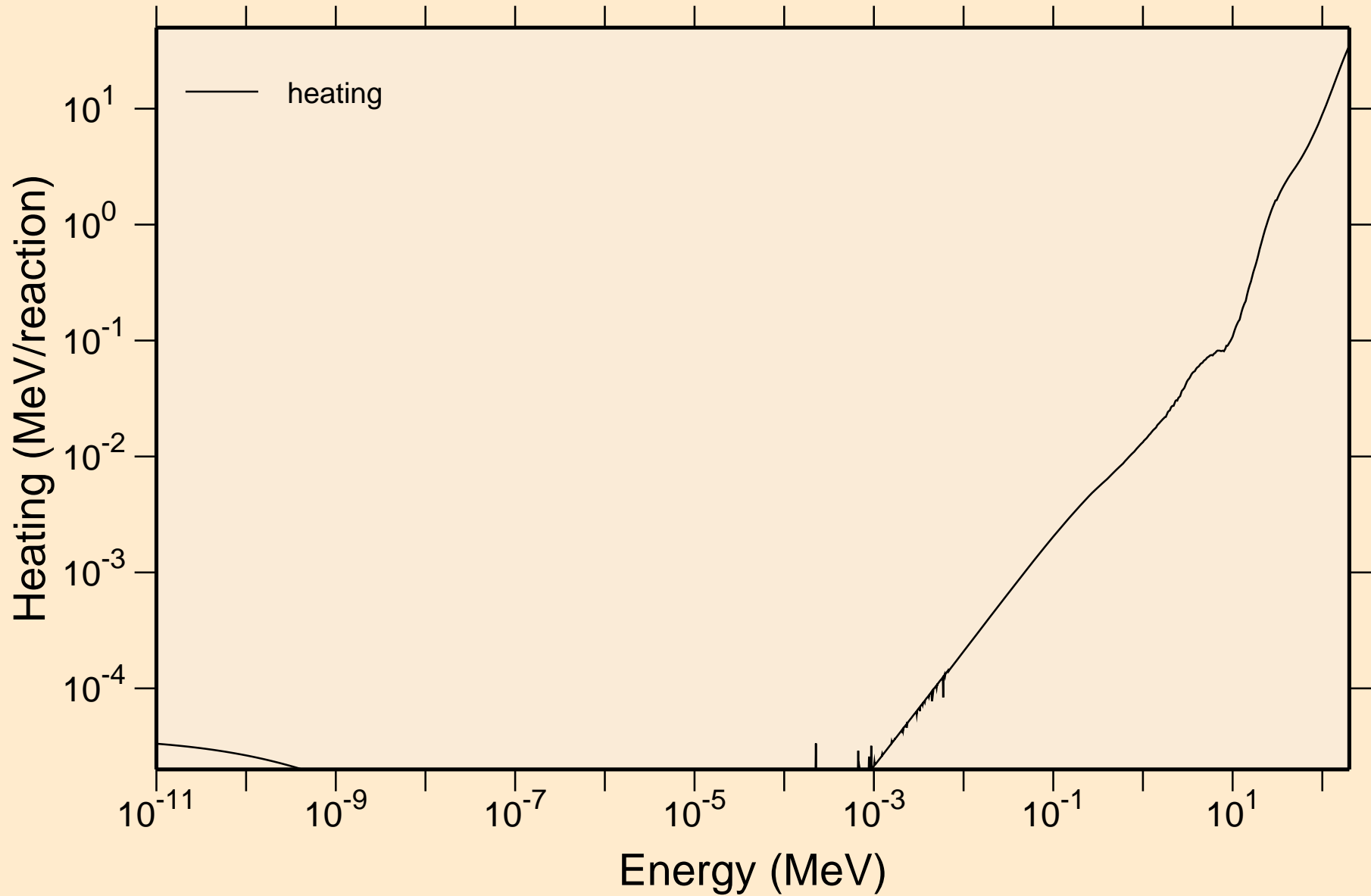


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



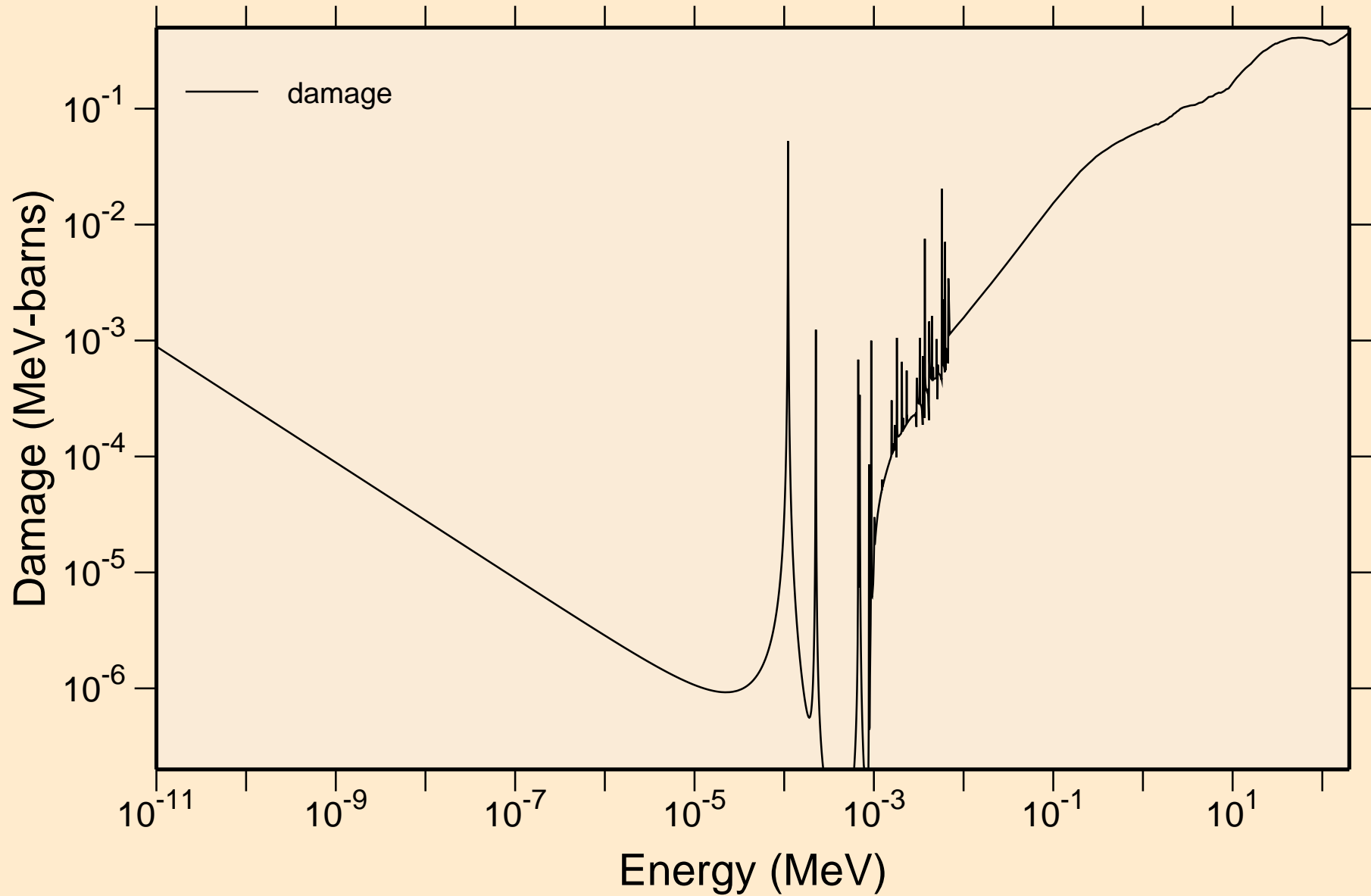
# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

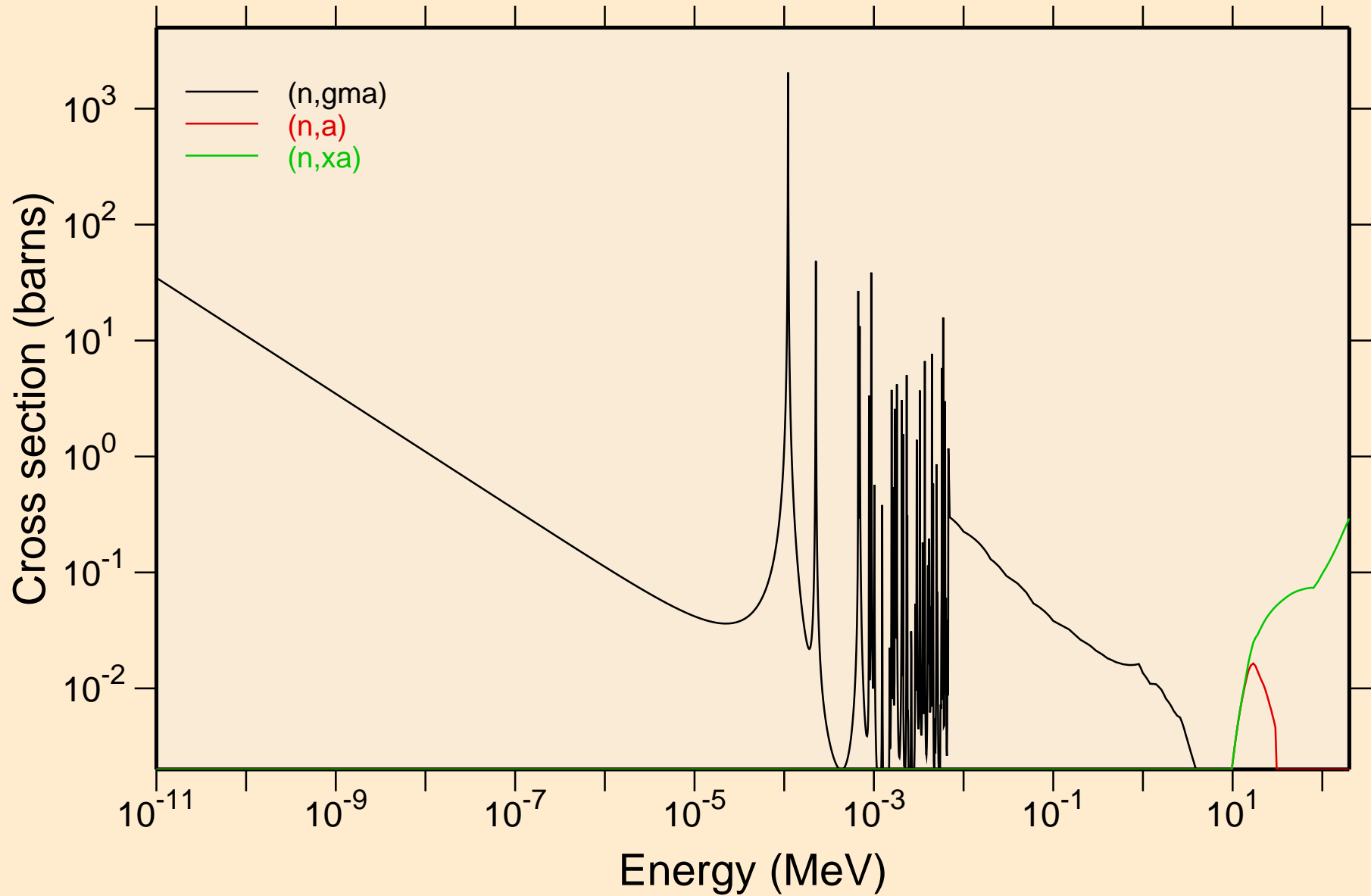




ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

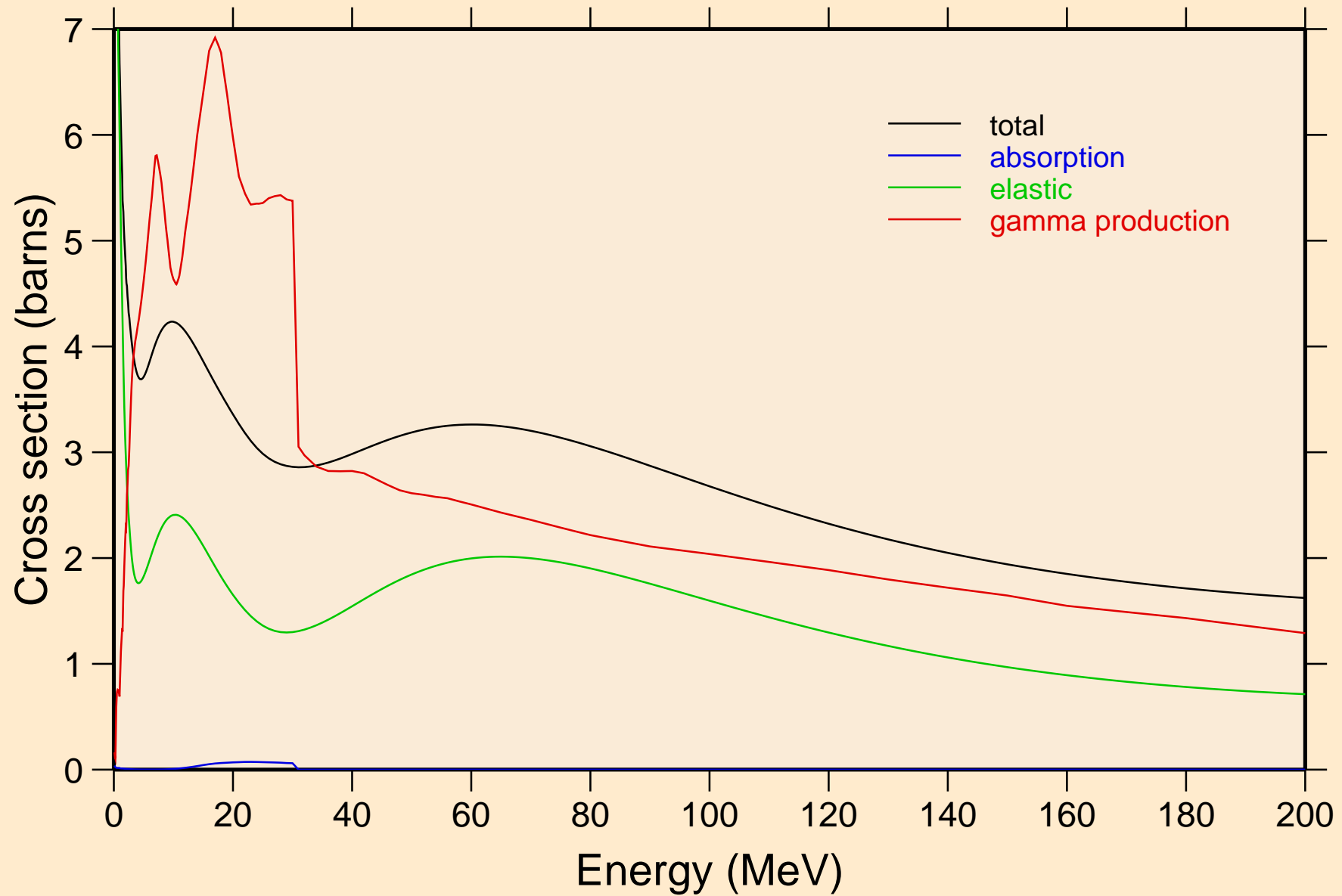


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



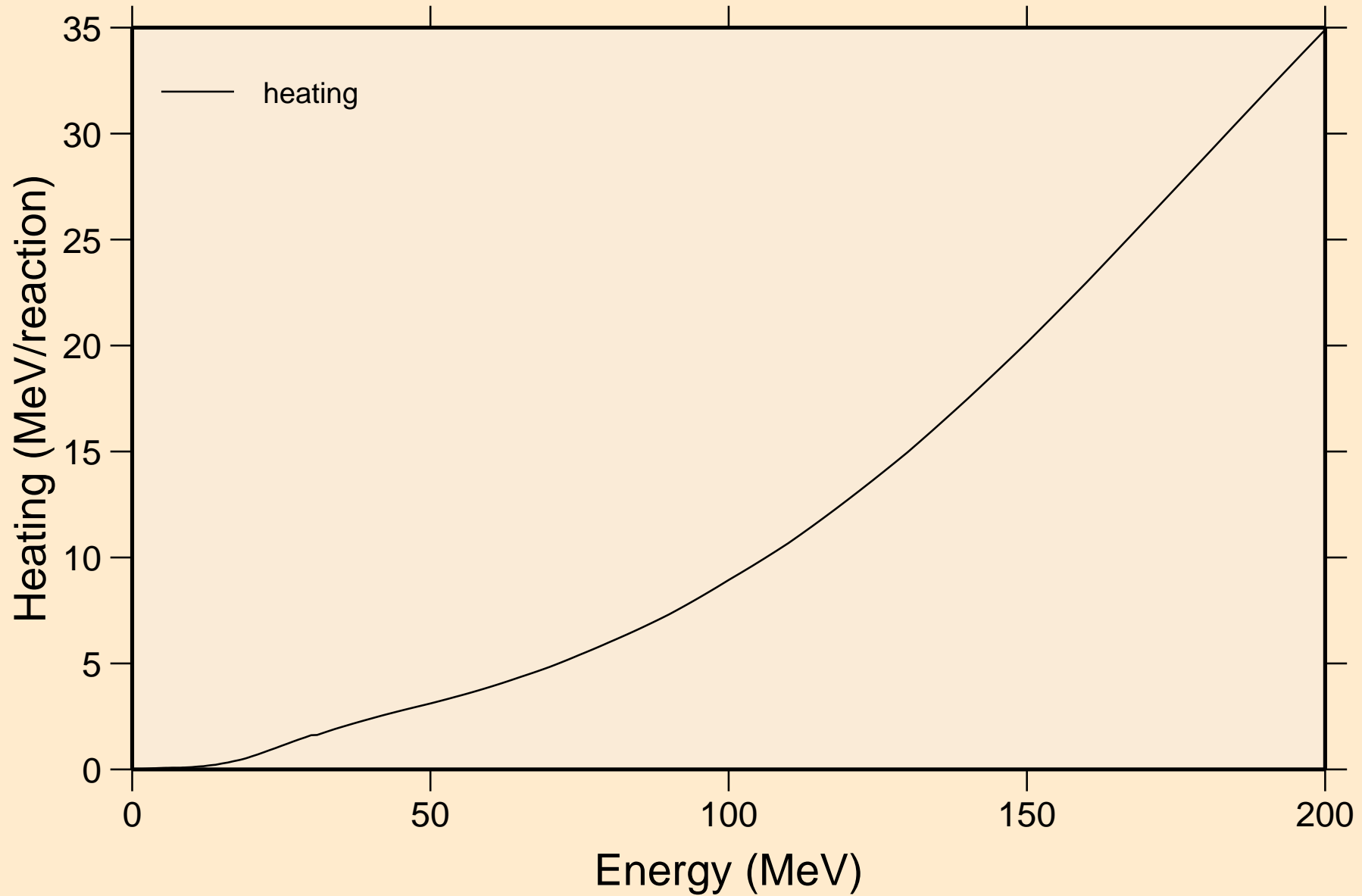
# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



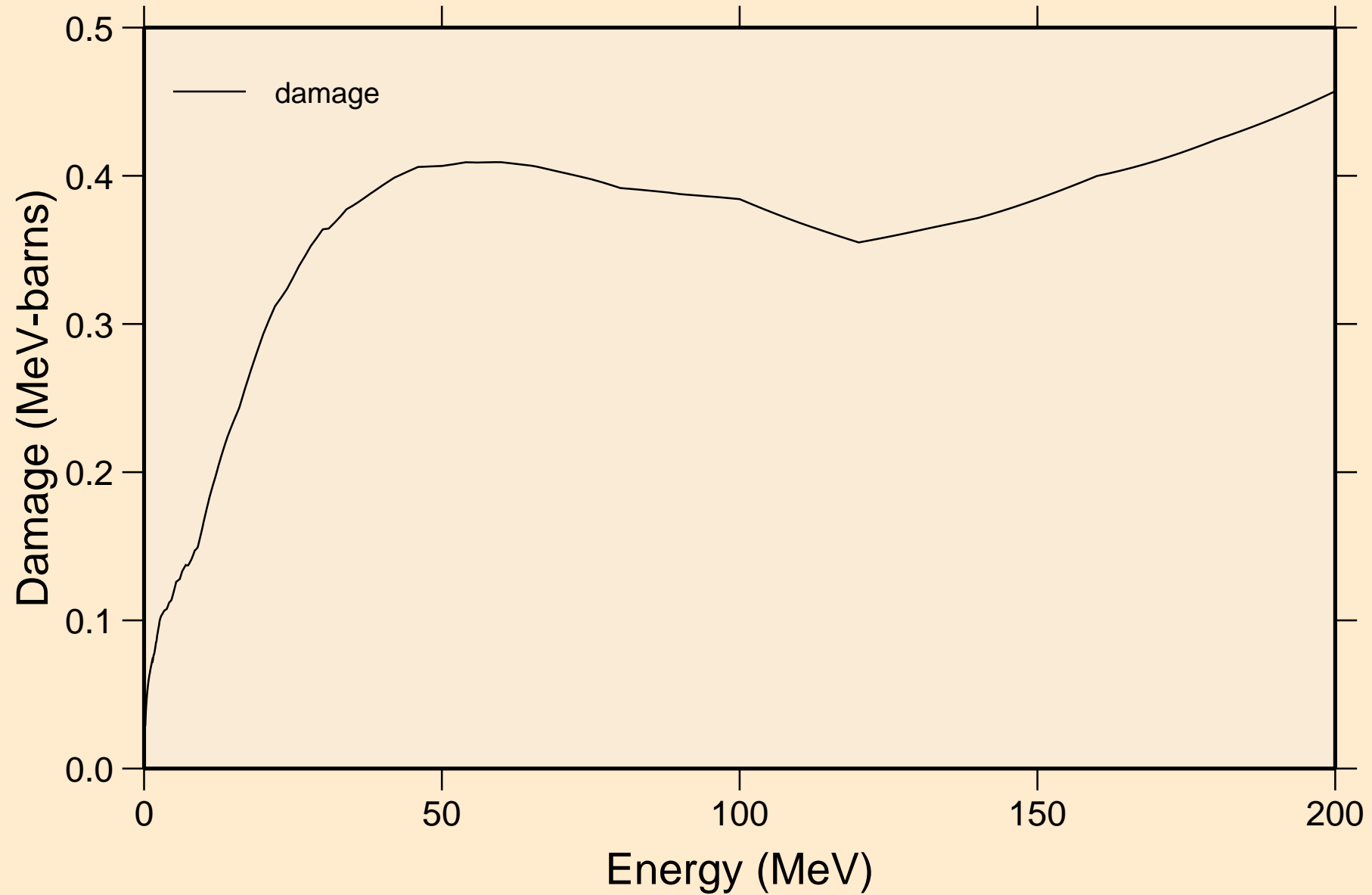
# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating

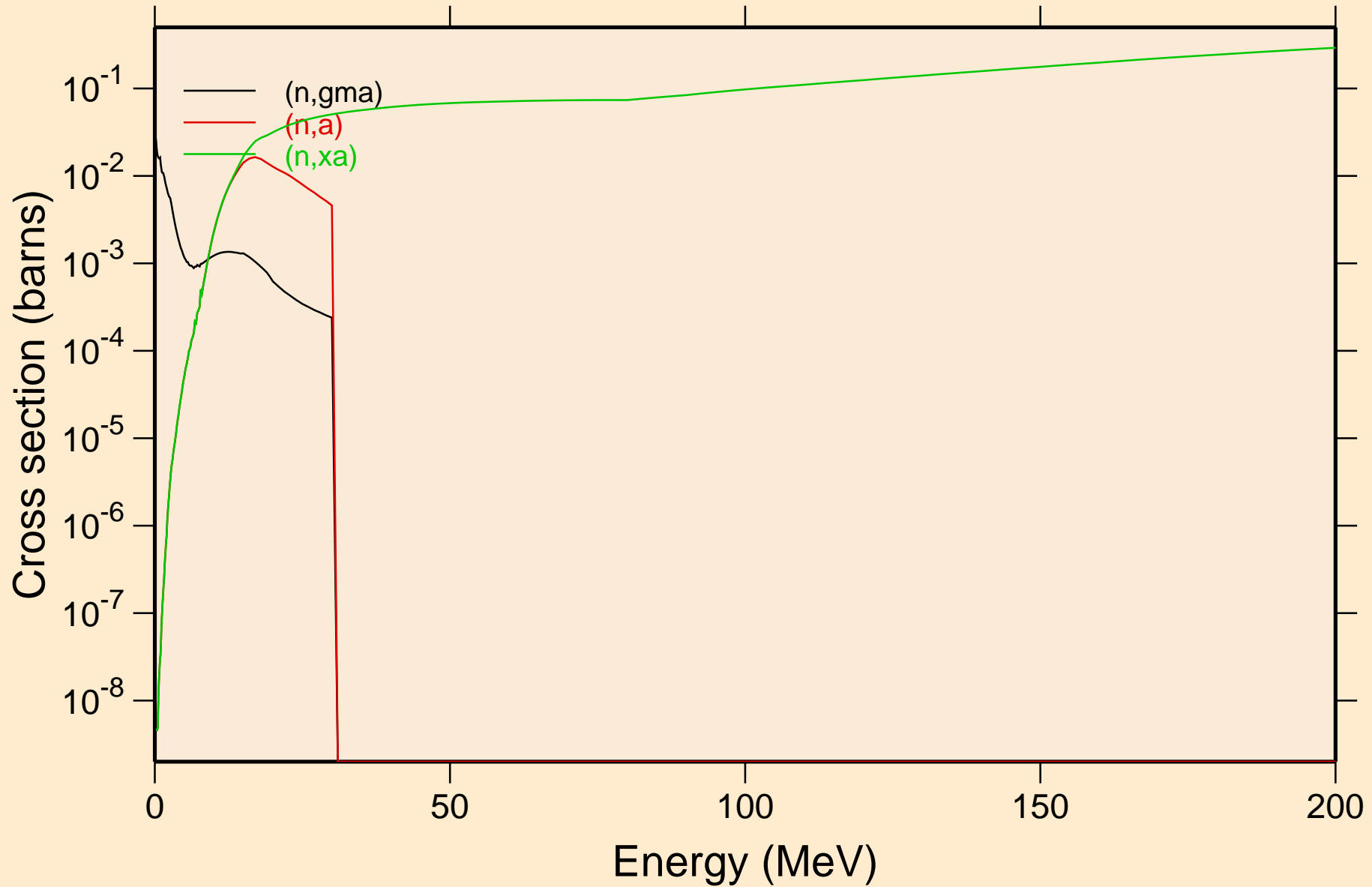


# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

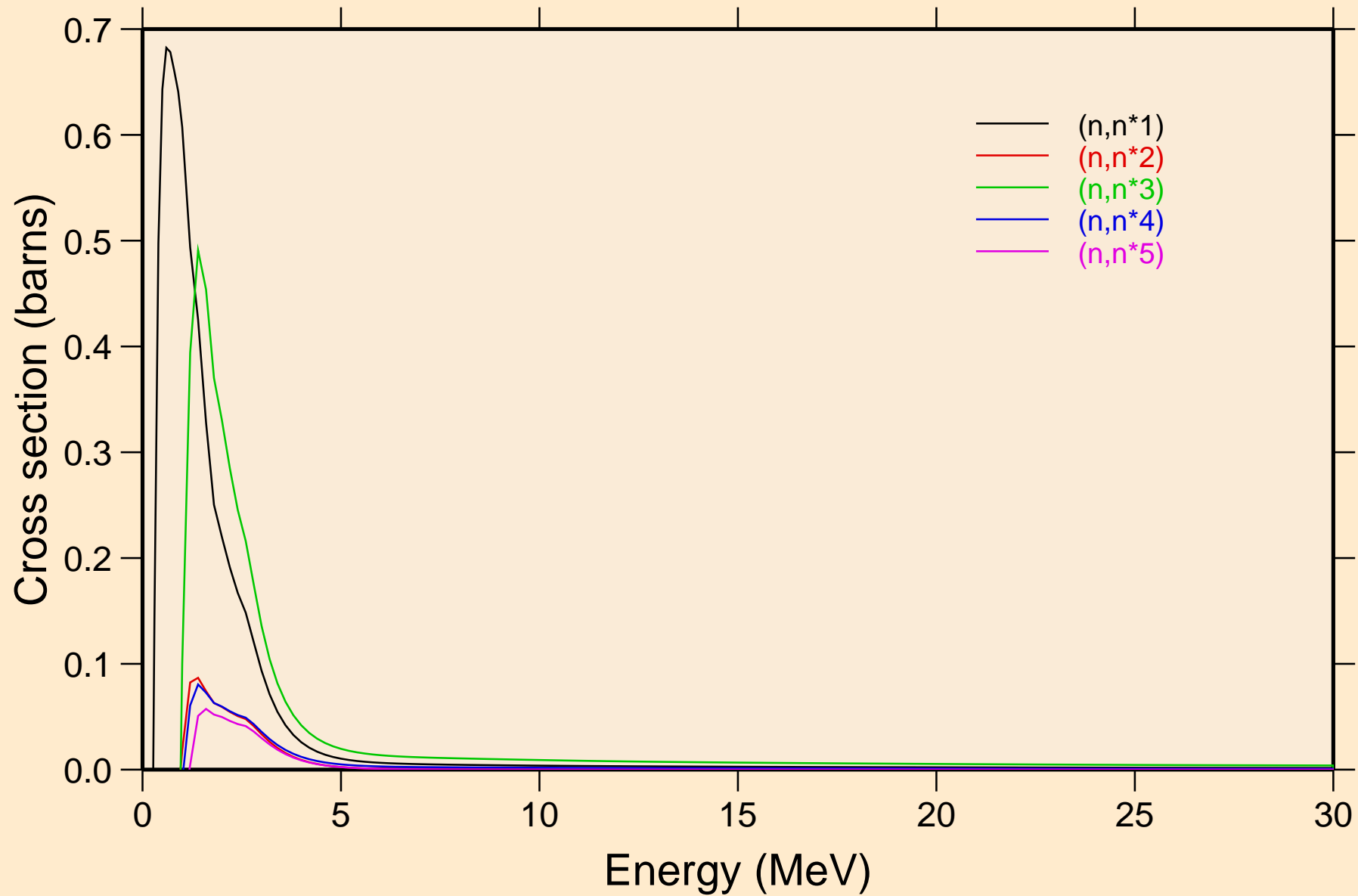
## Damage



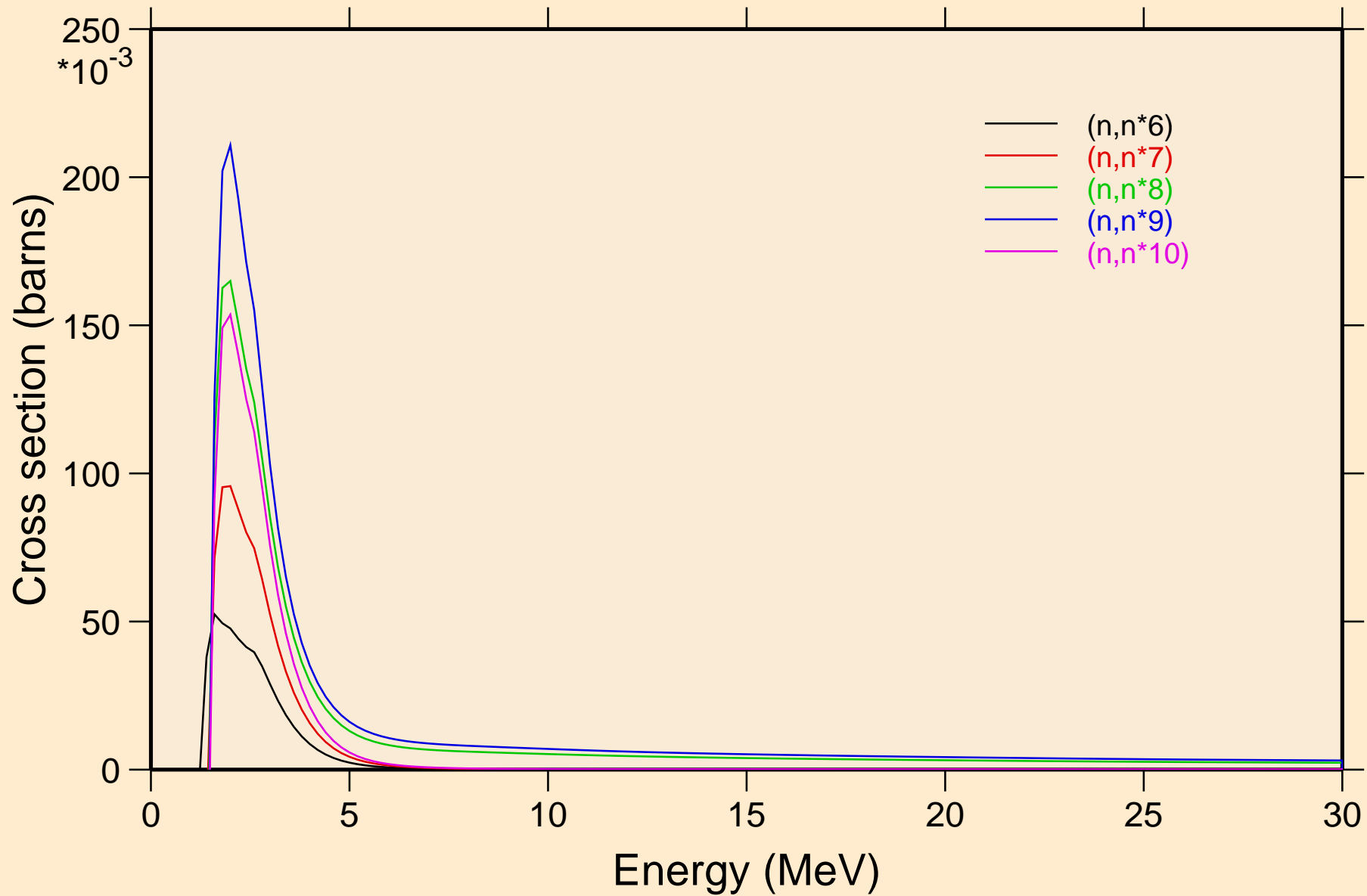
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

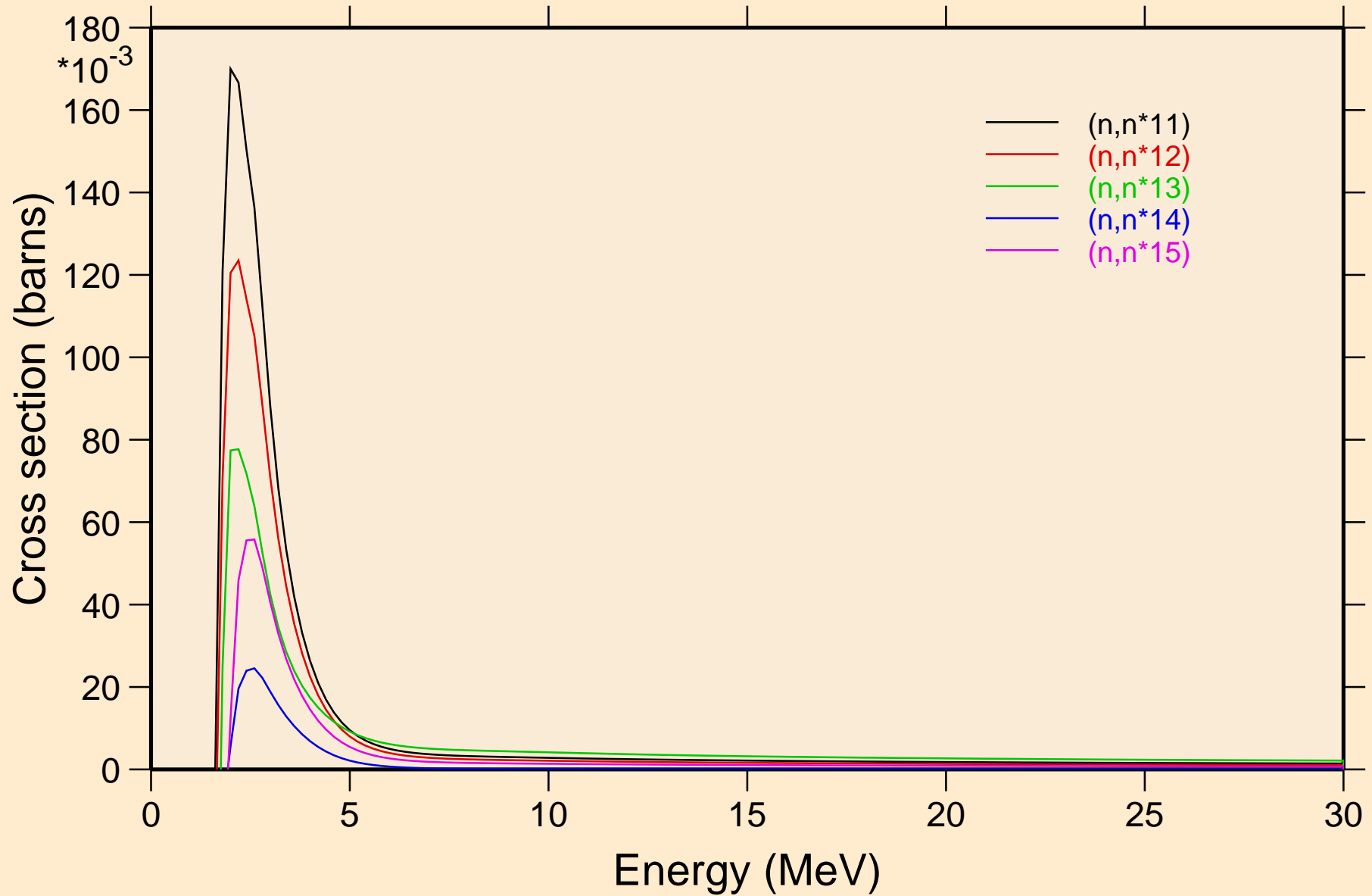


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

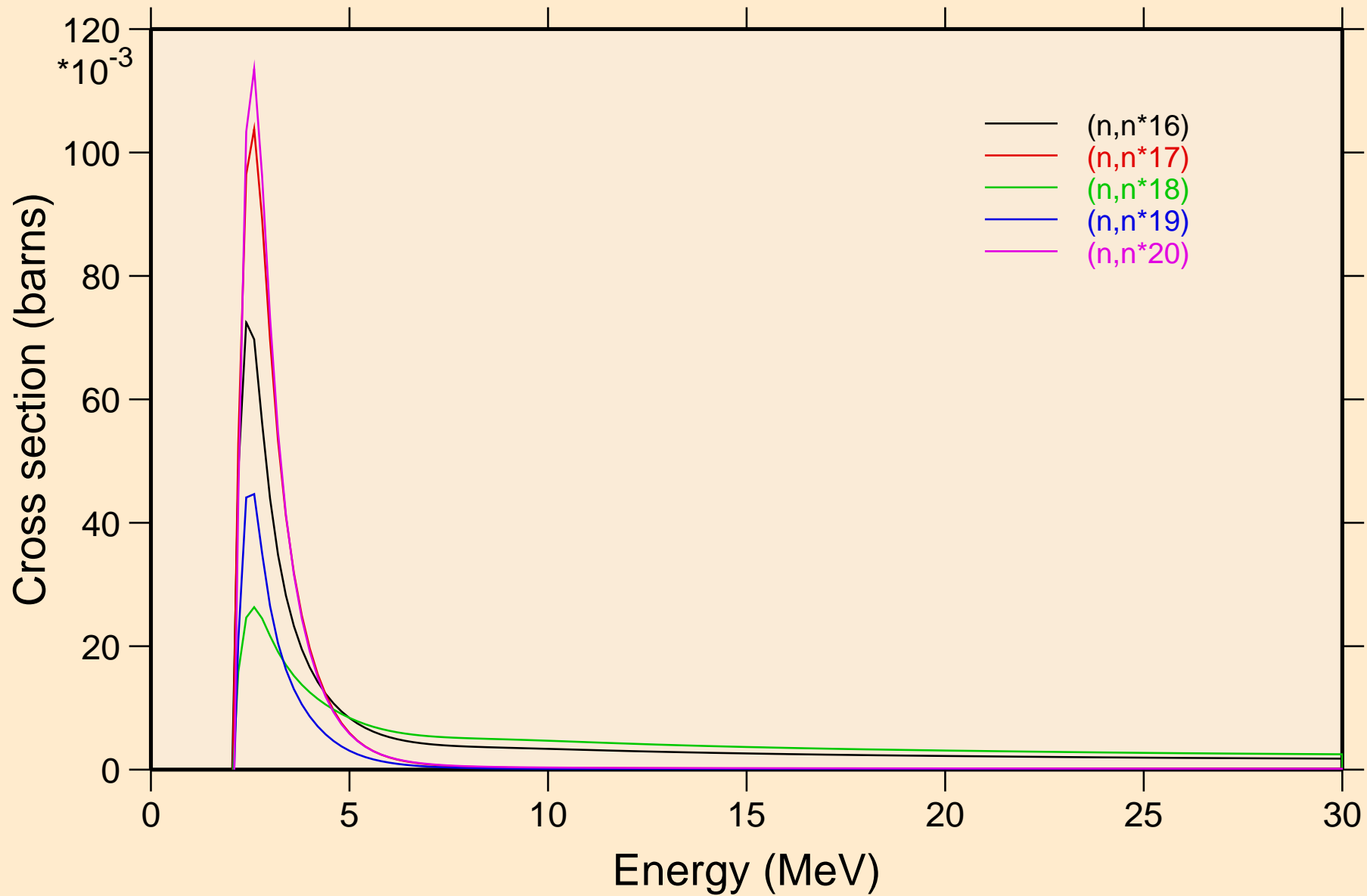




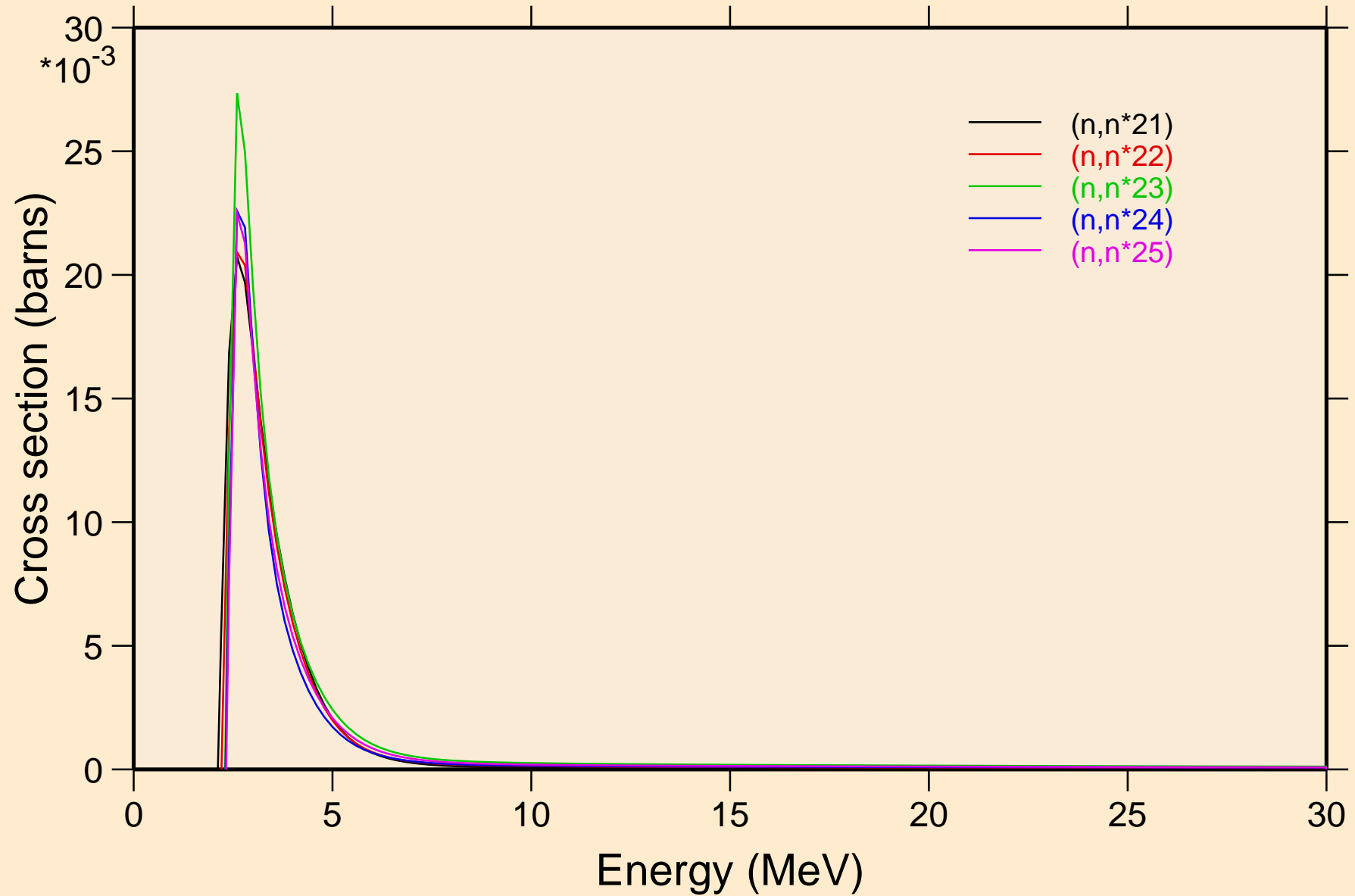
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



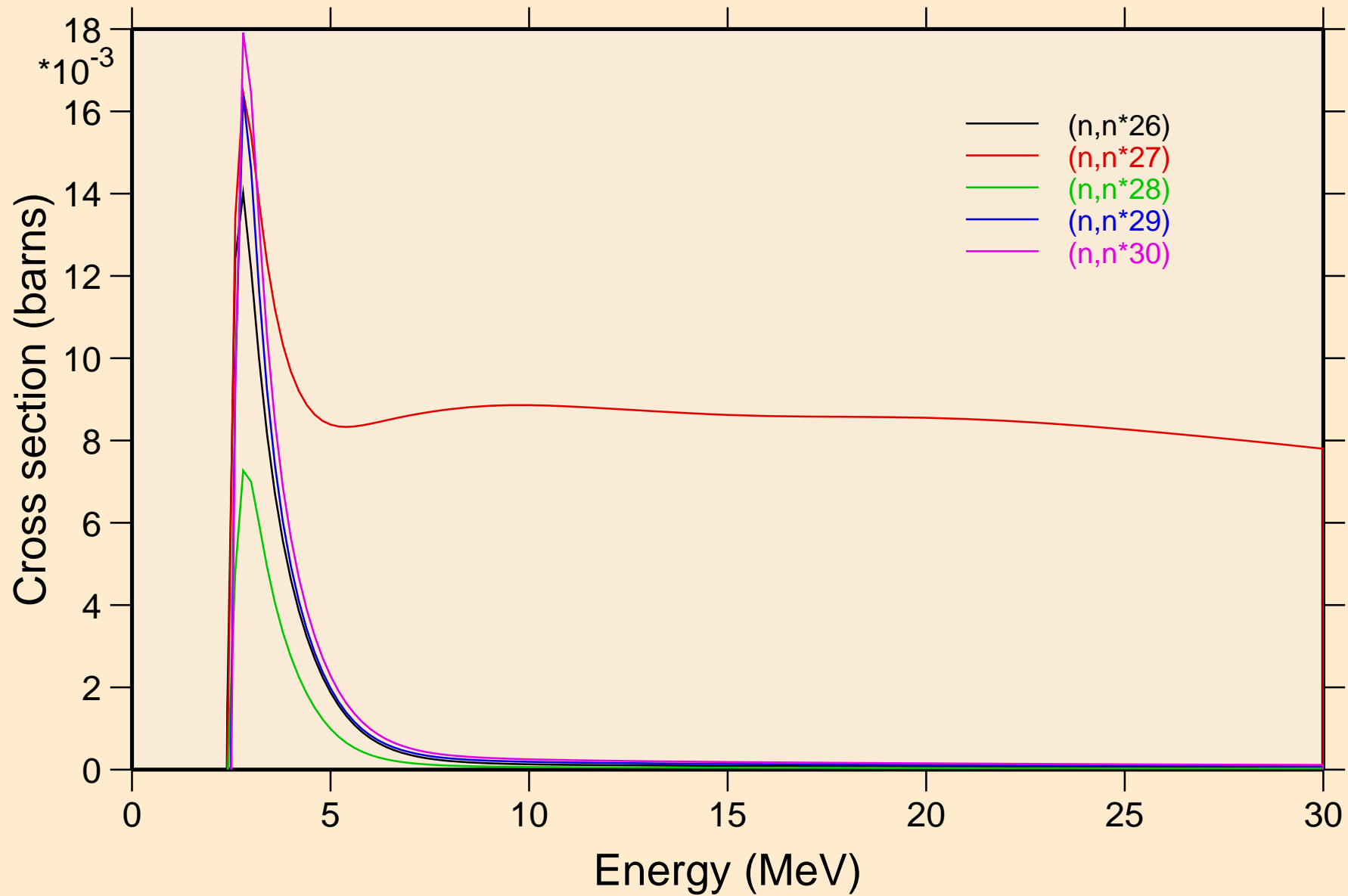
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



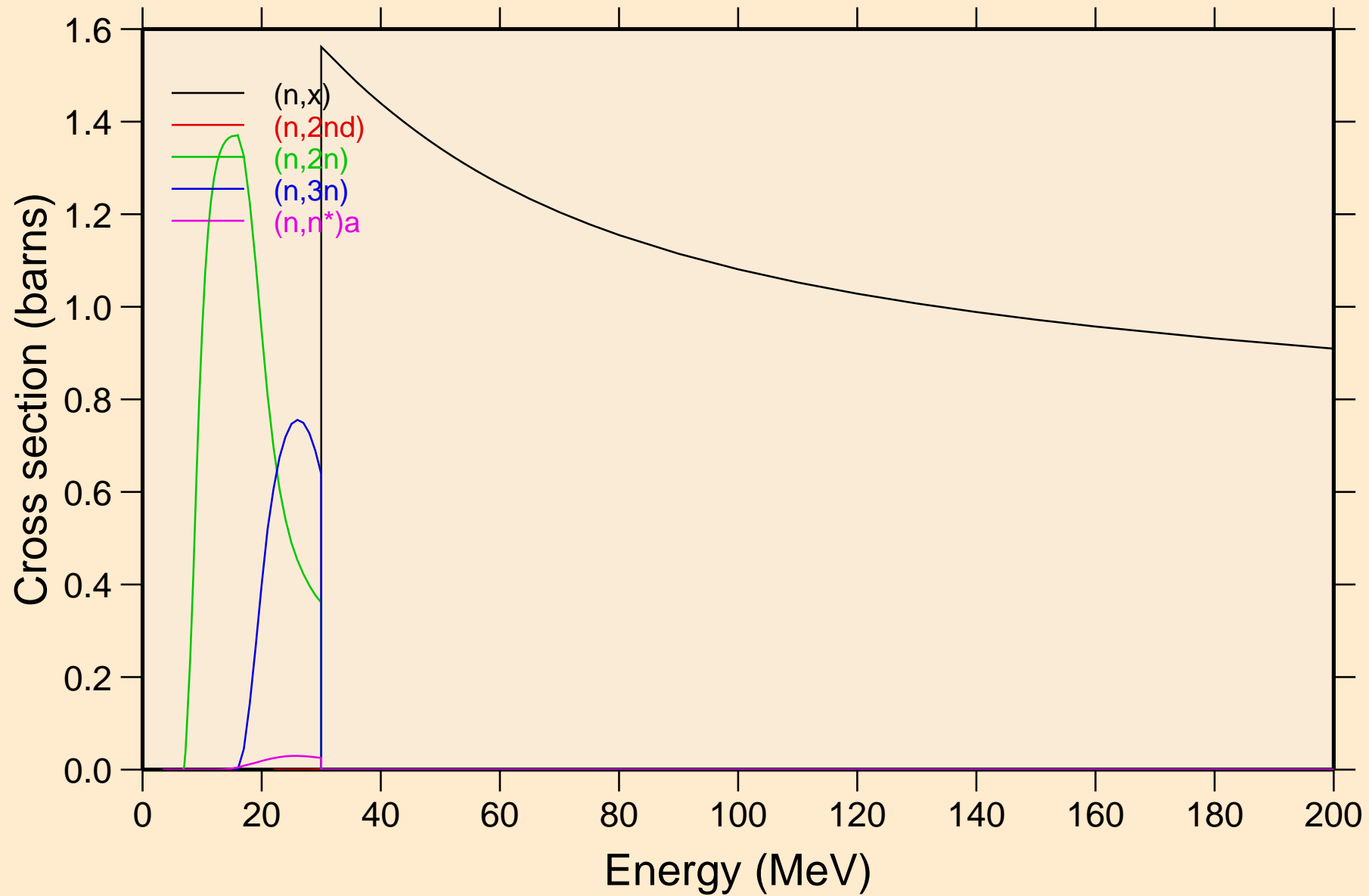
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

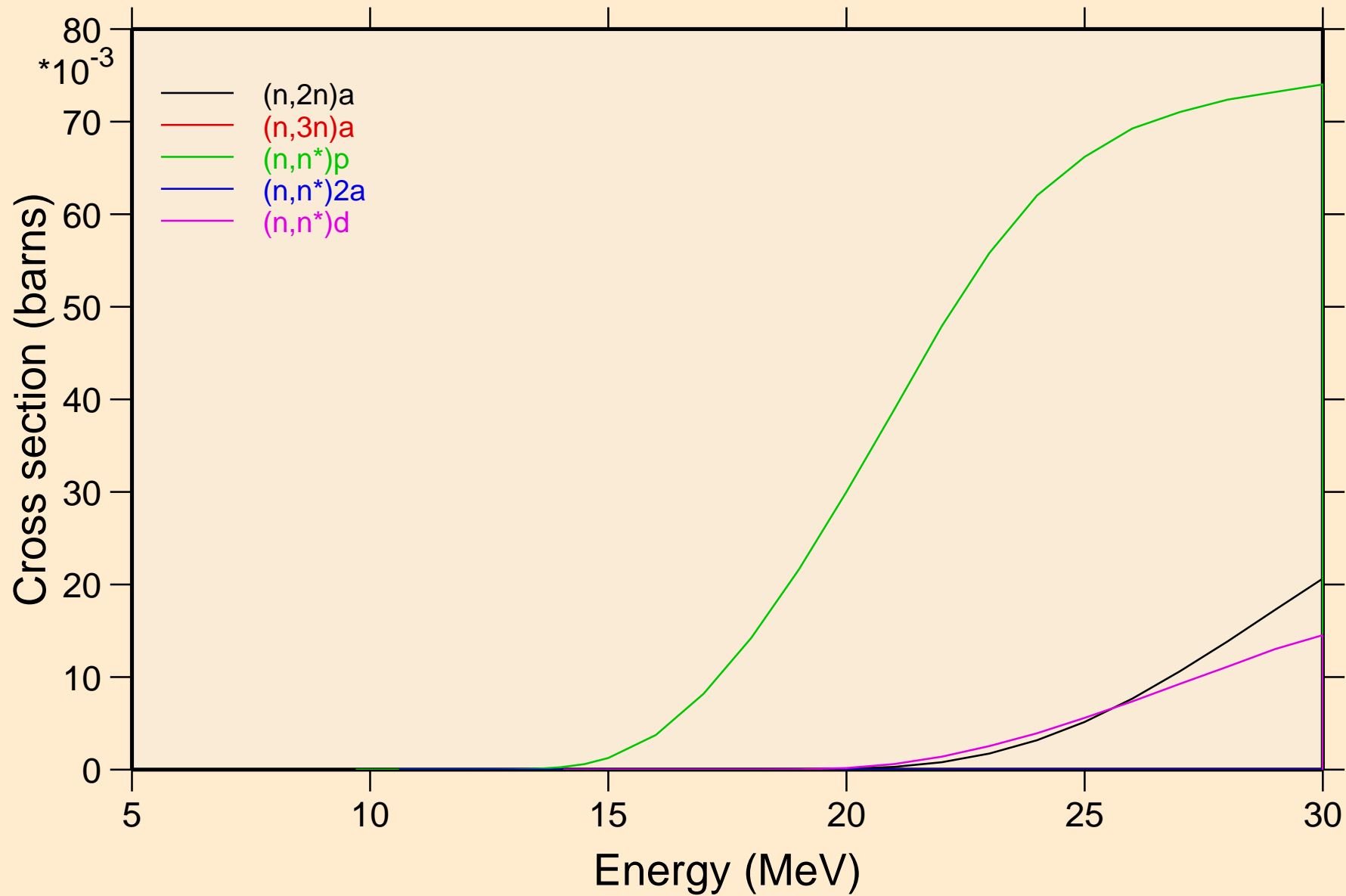


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

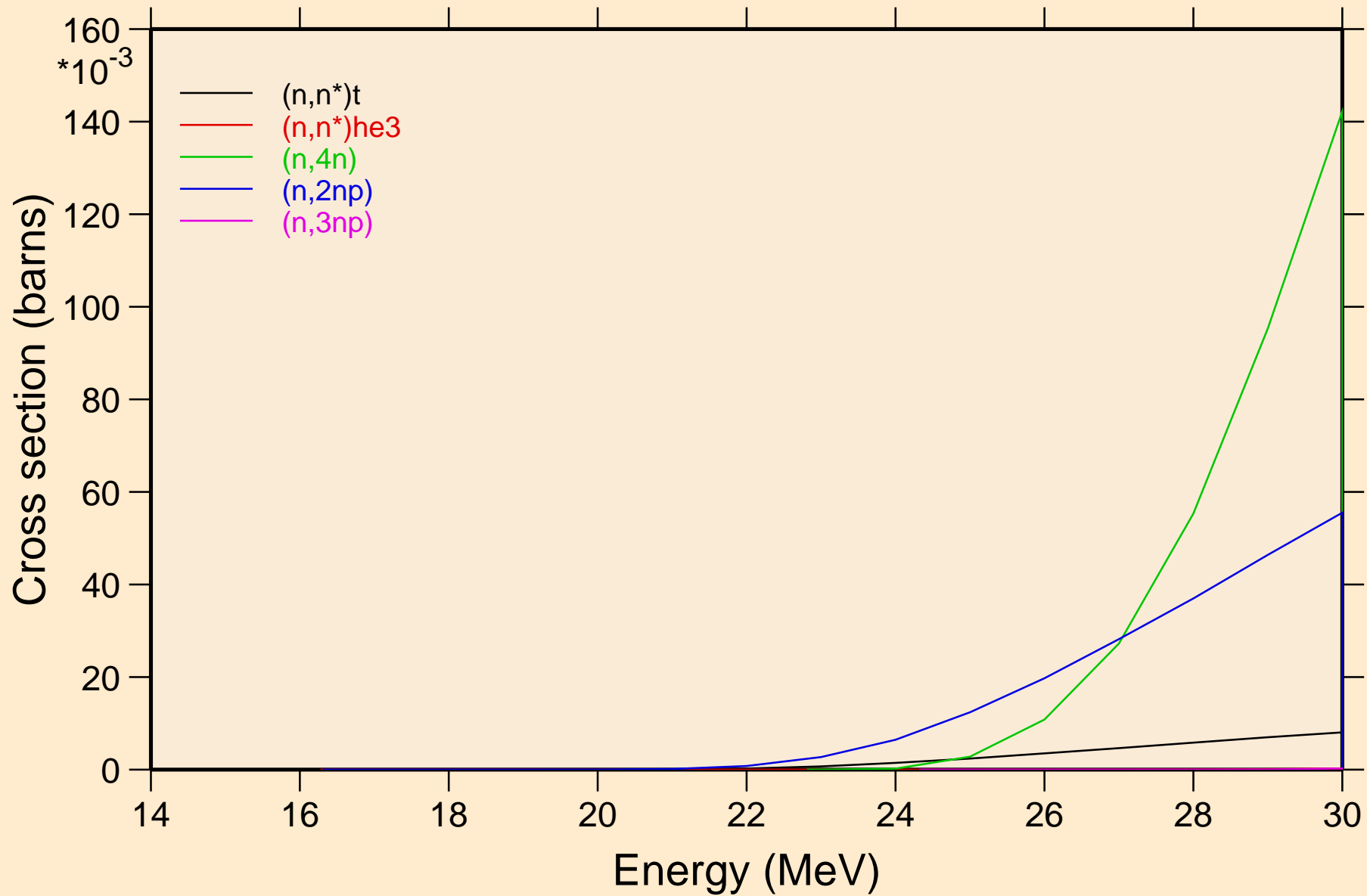


# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

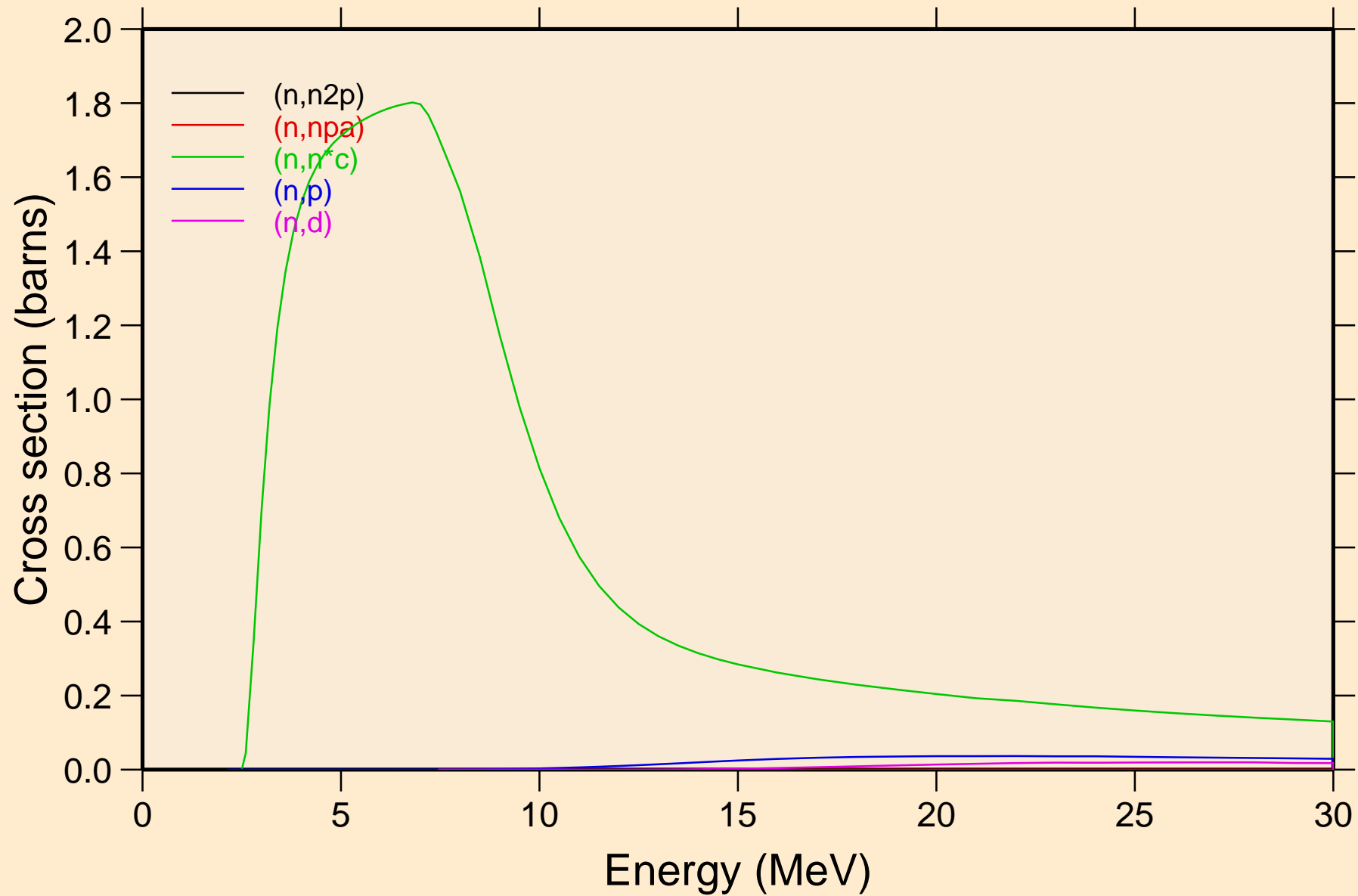


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



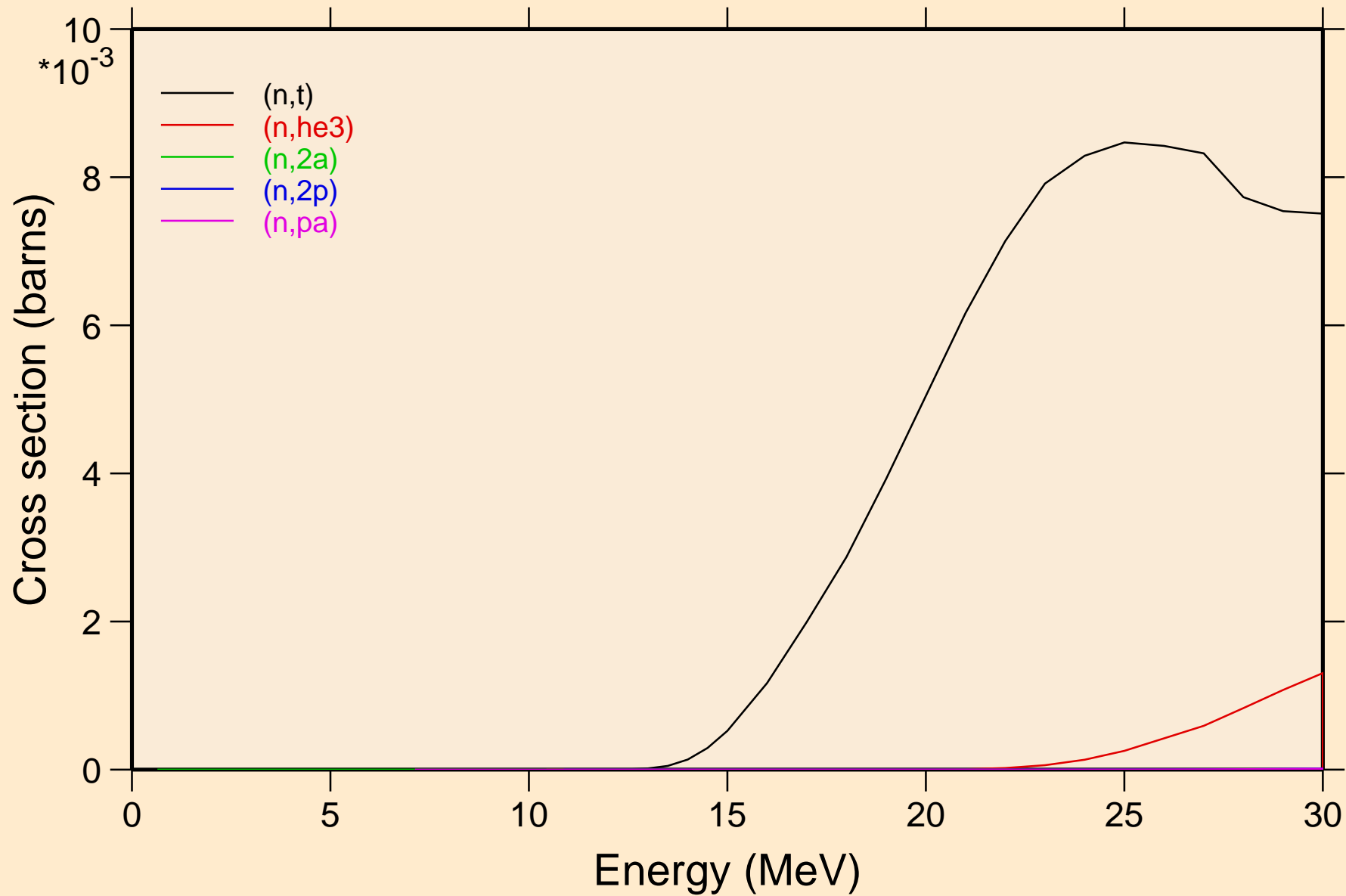
# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions

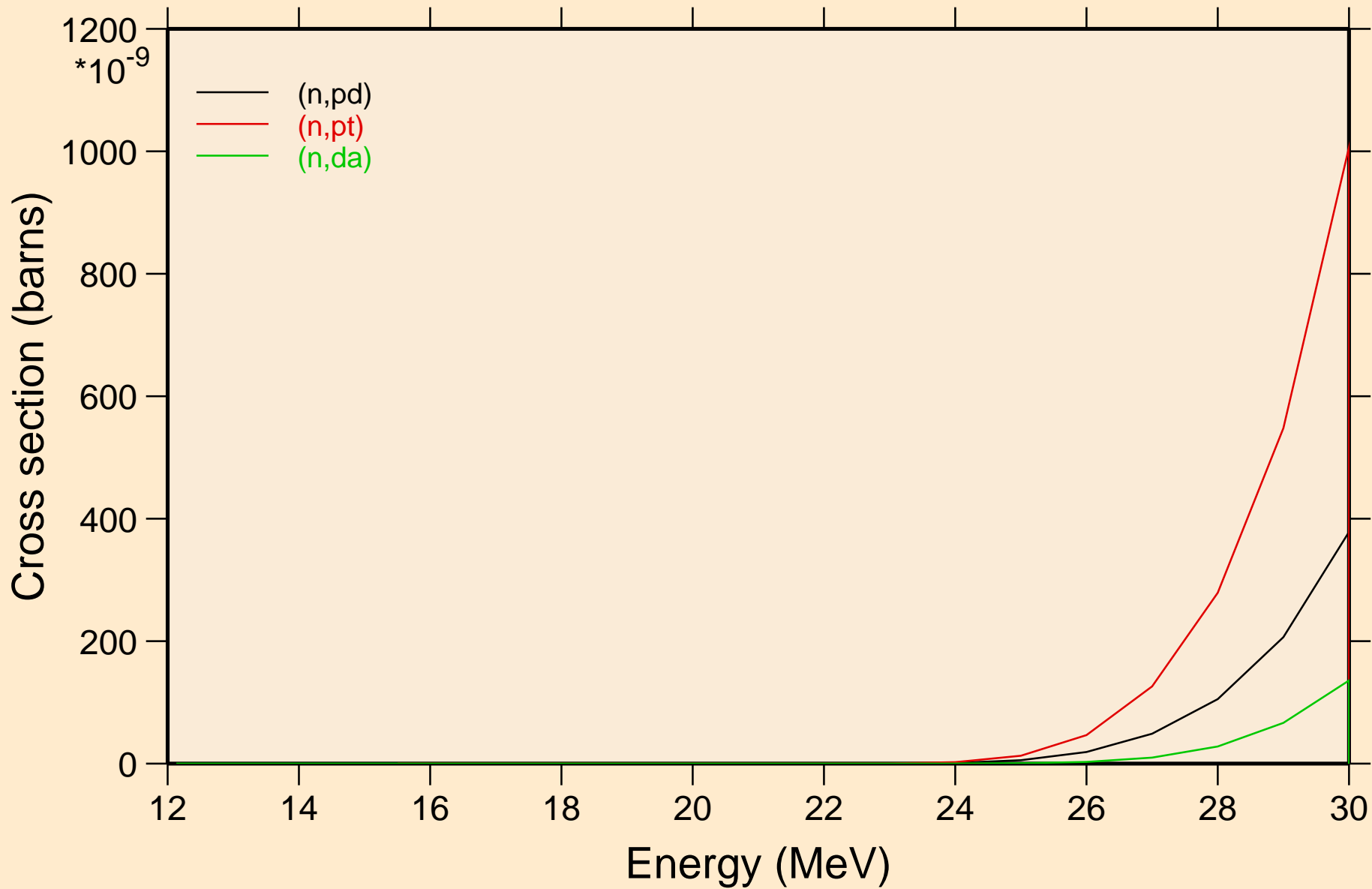




ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

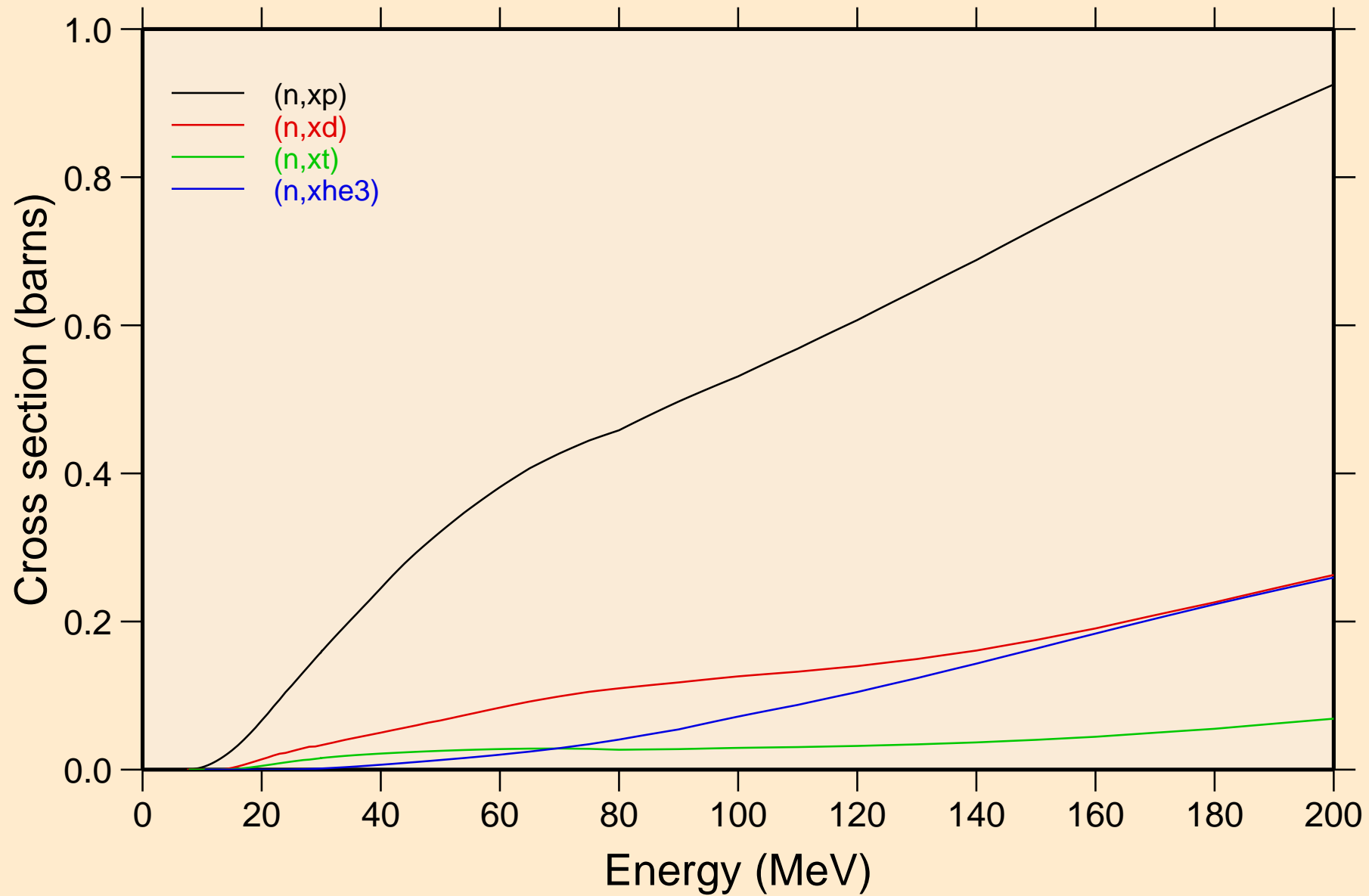


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

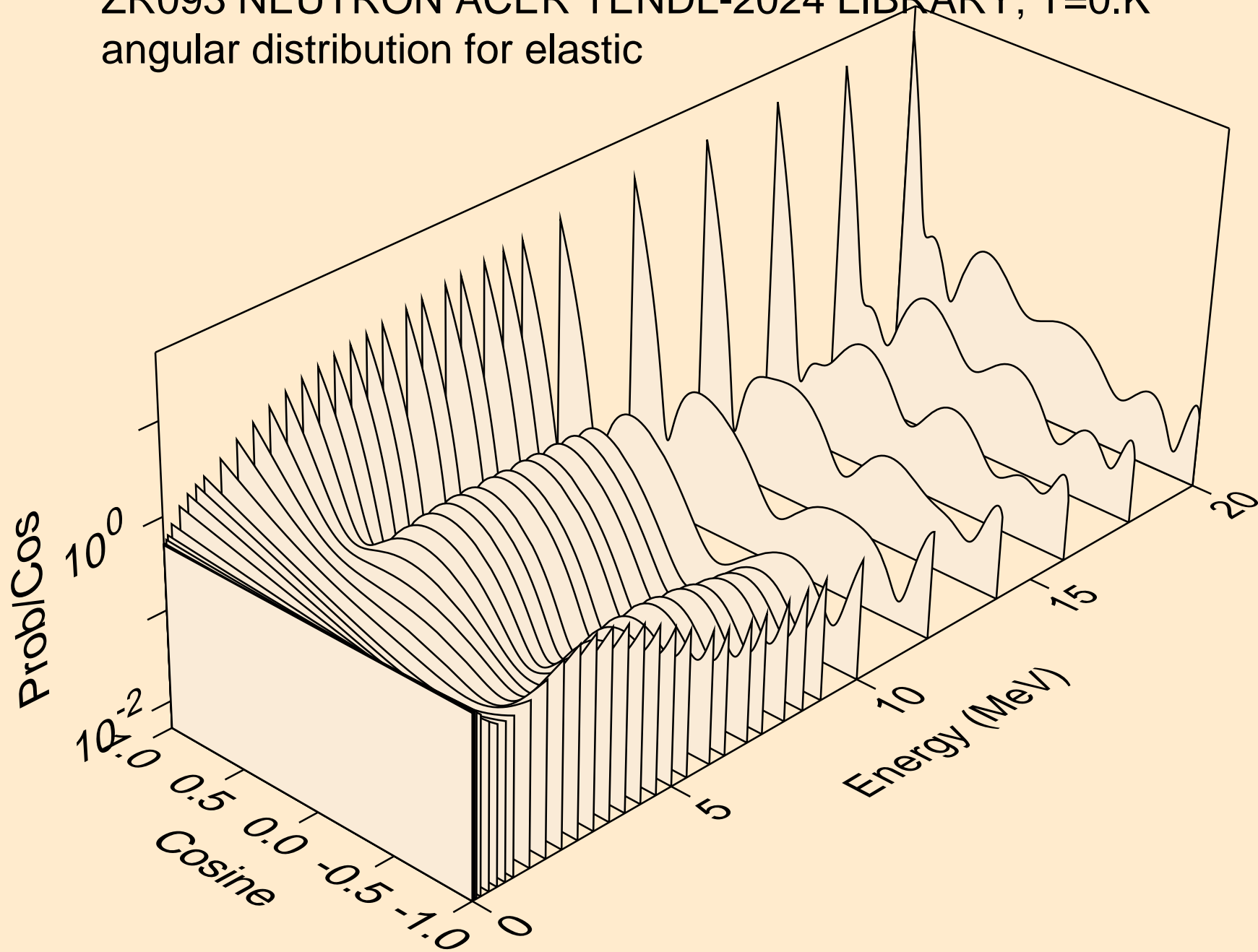


# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

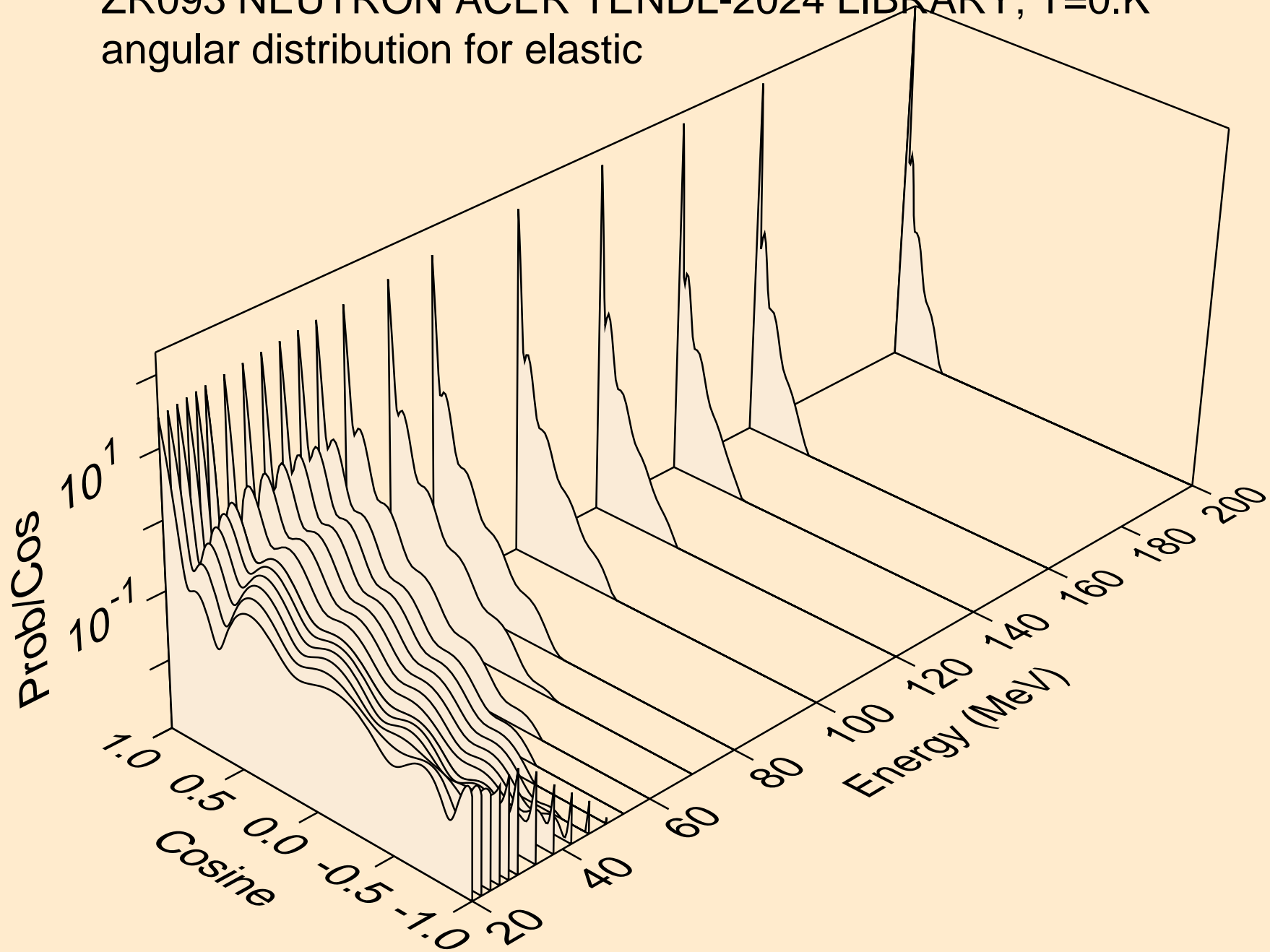
## Threshold reactions



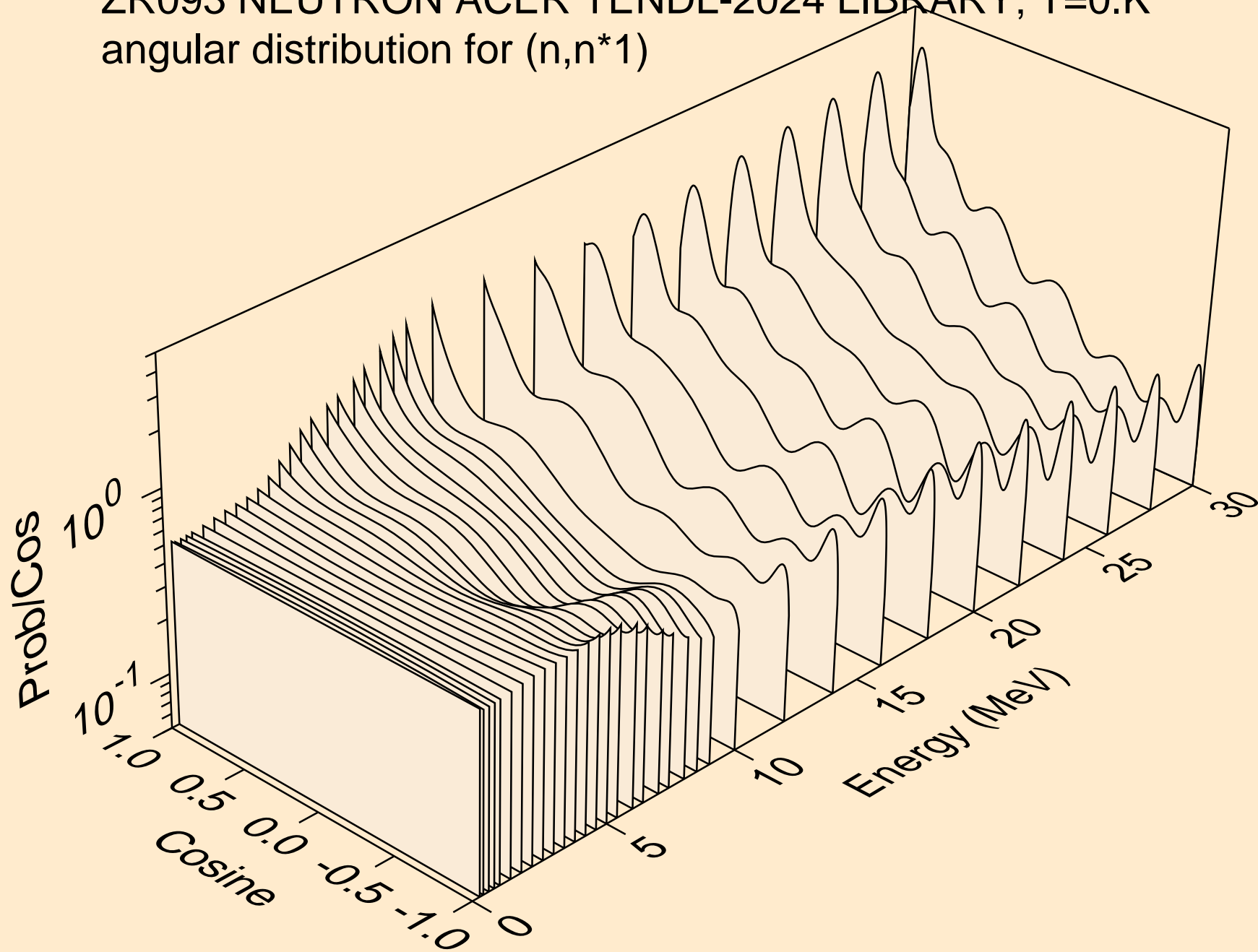
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



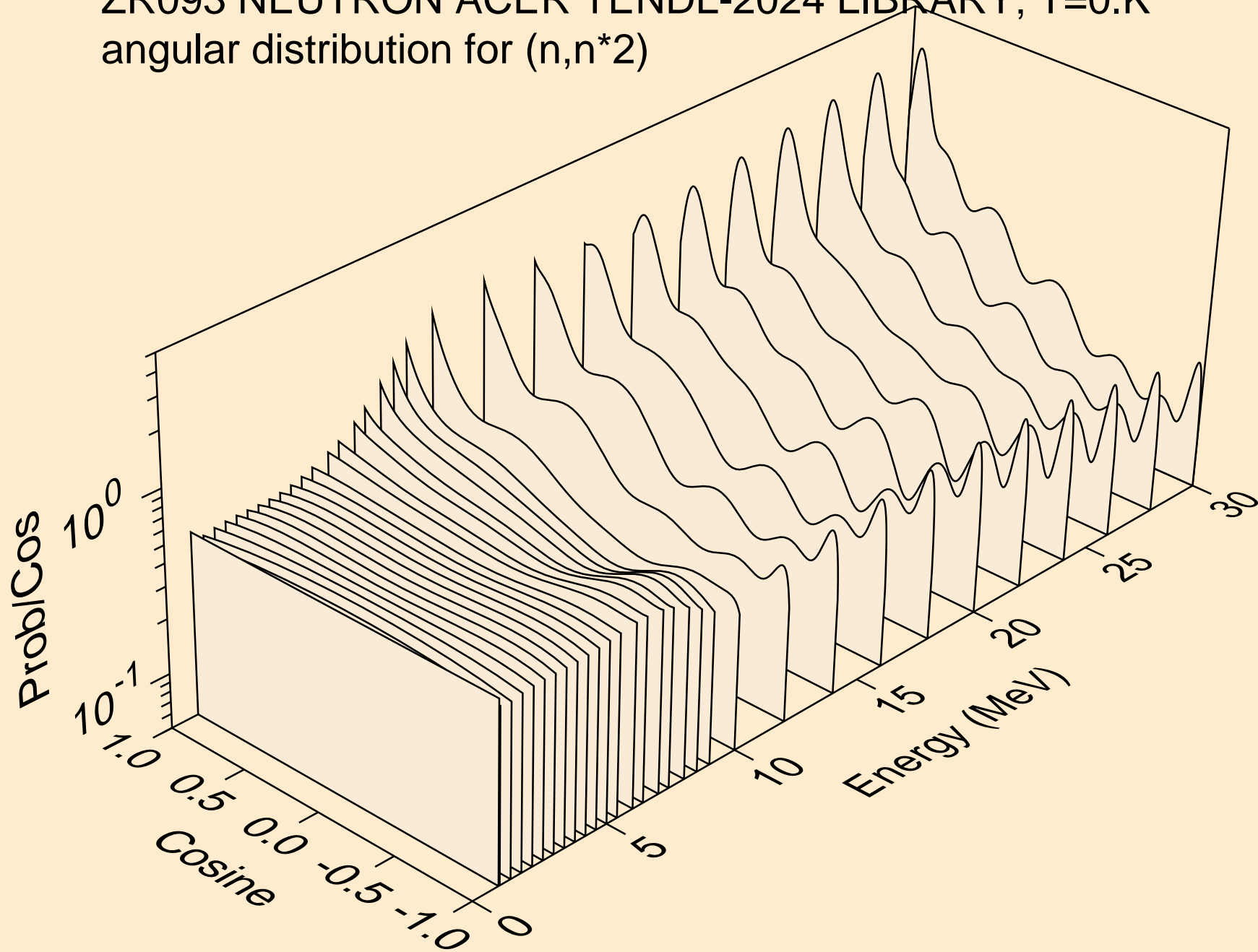
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



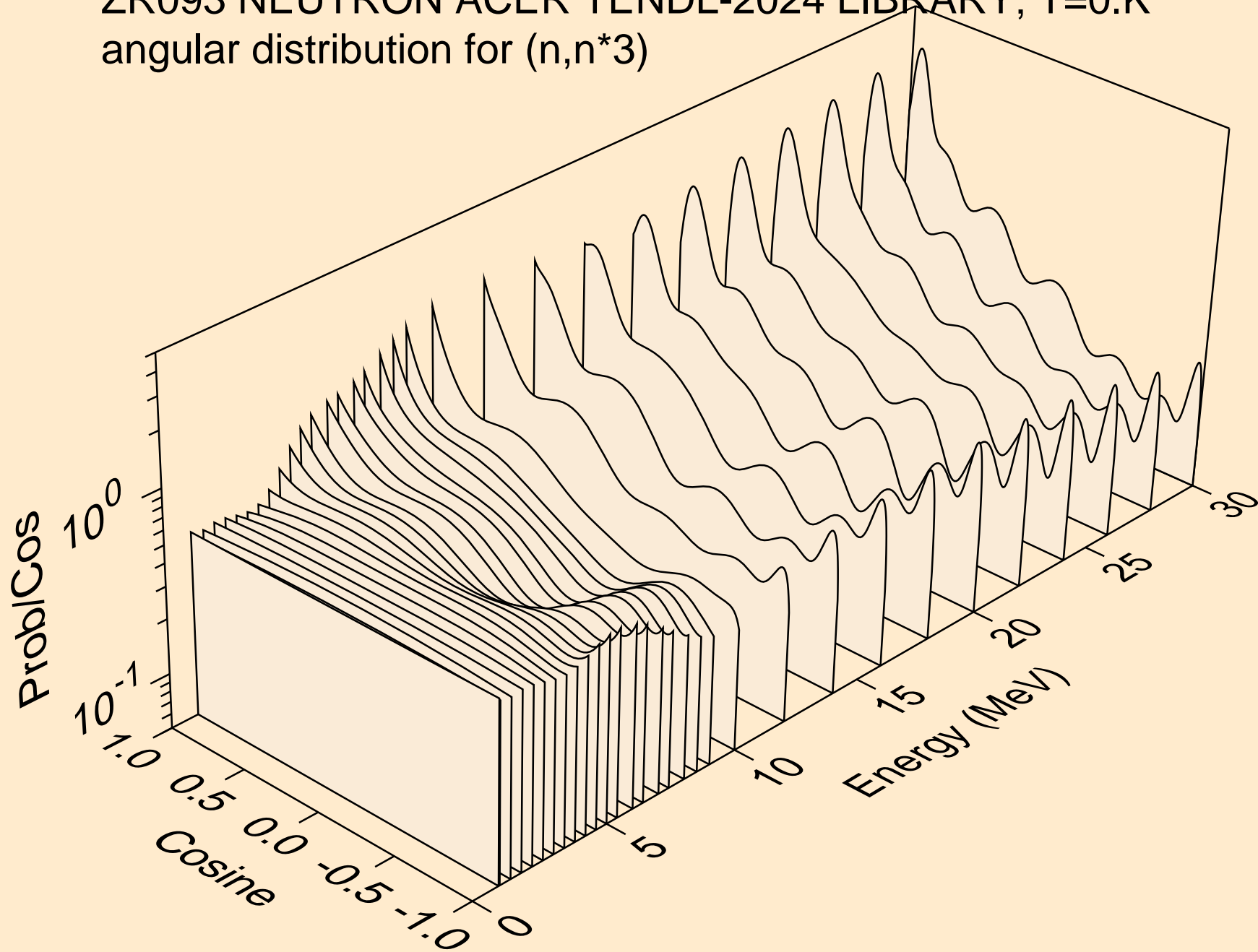
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

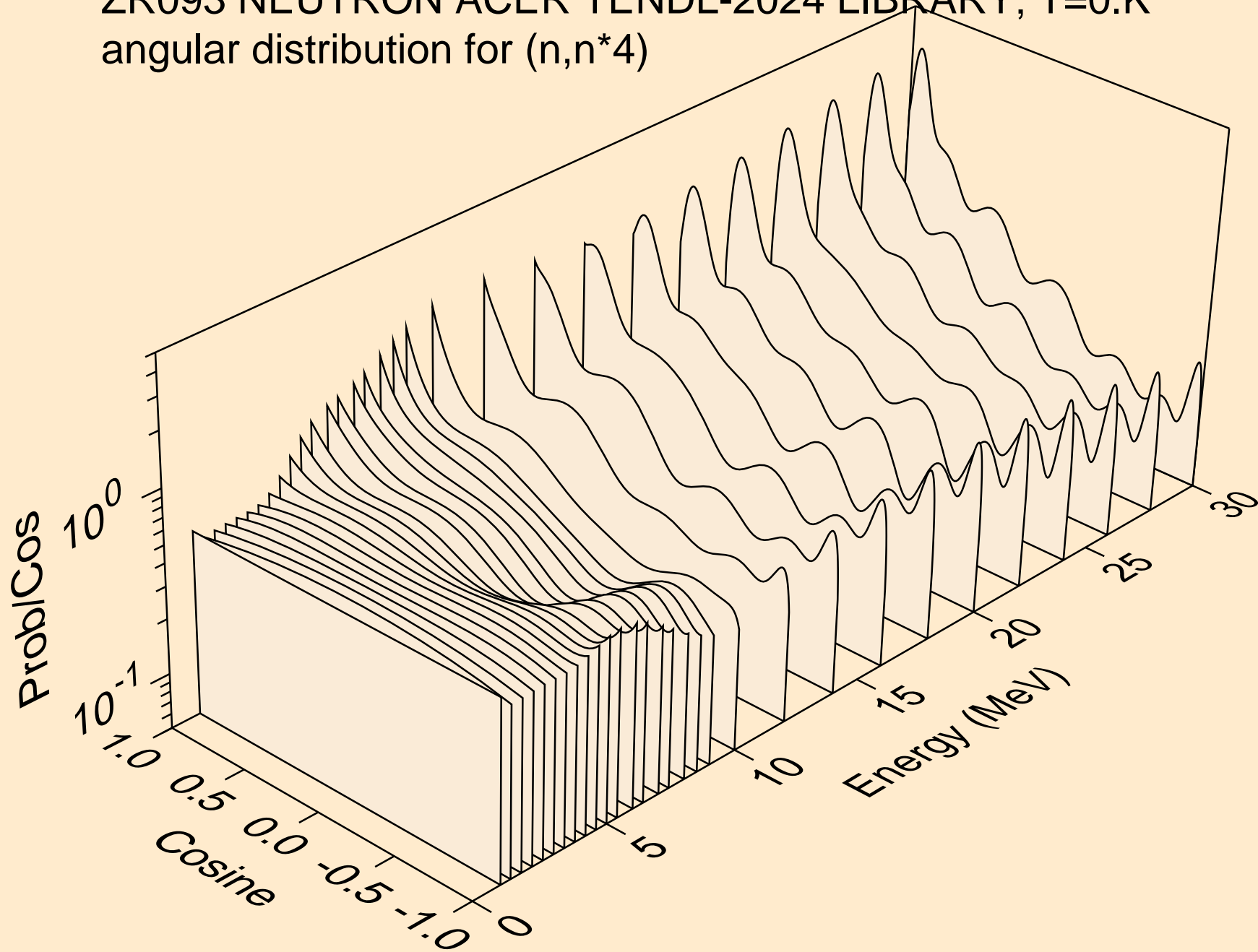


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

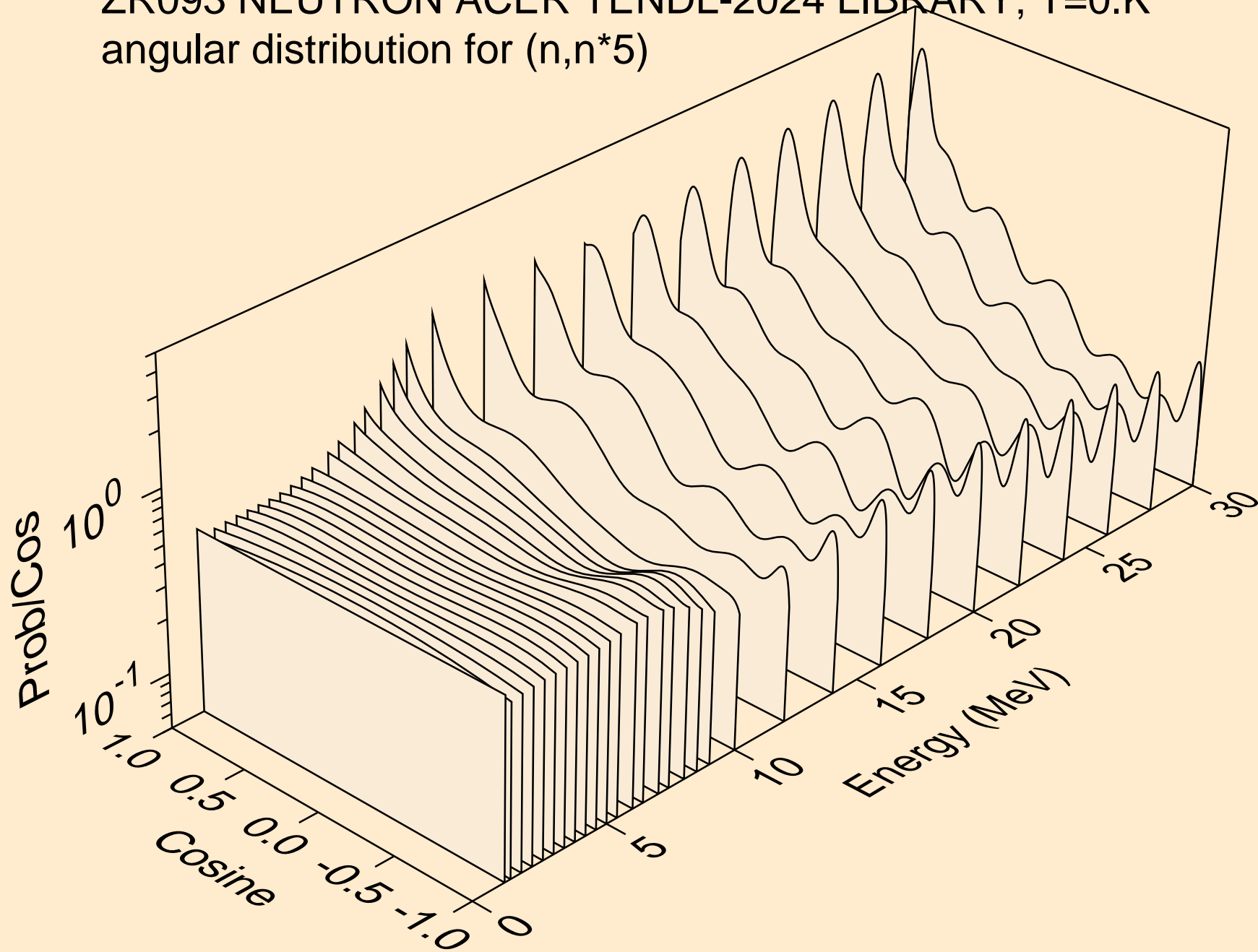




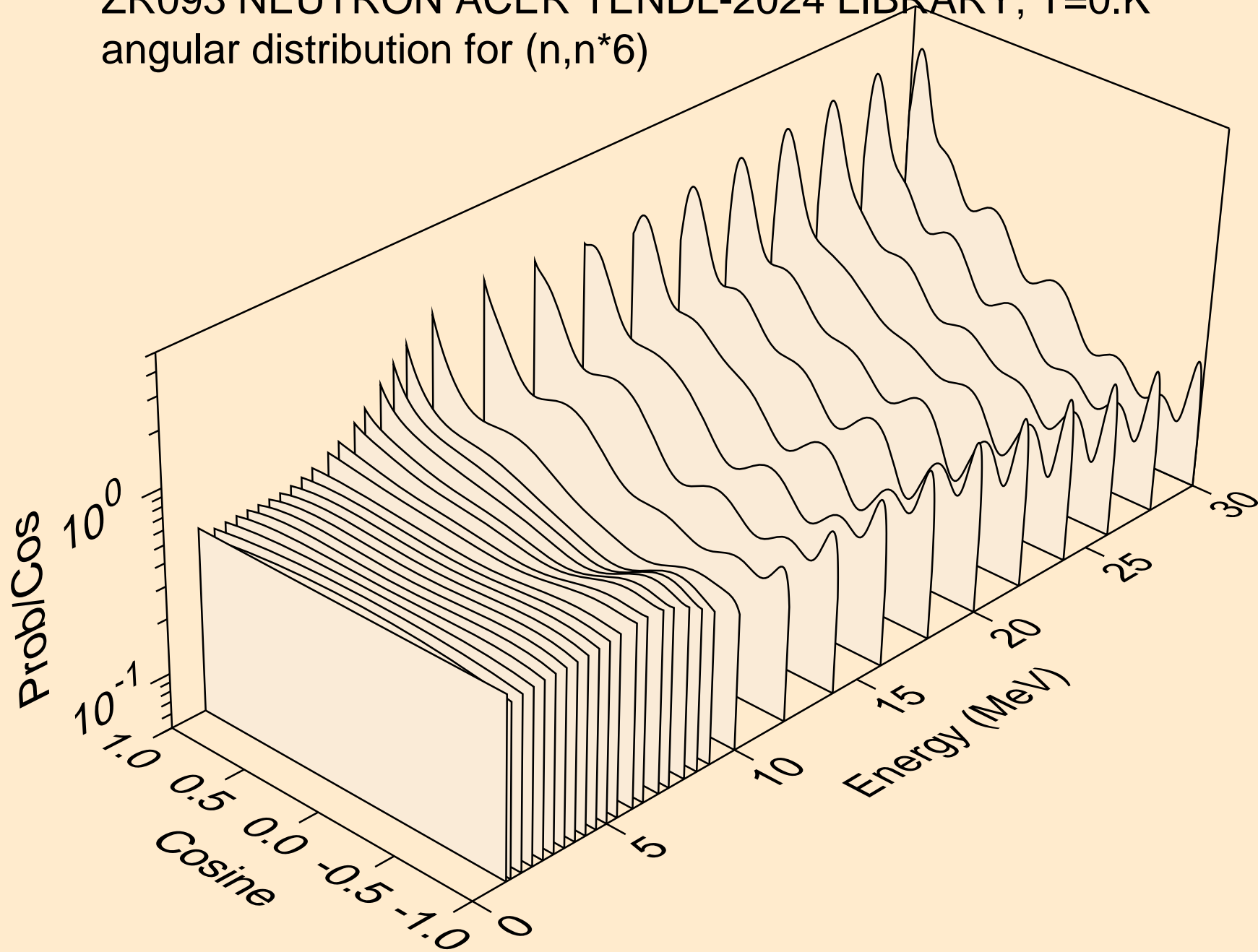
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



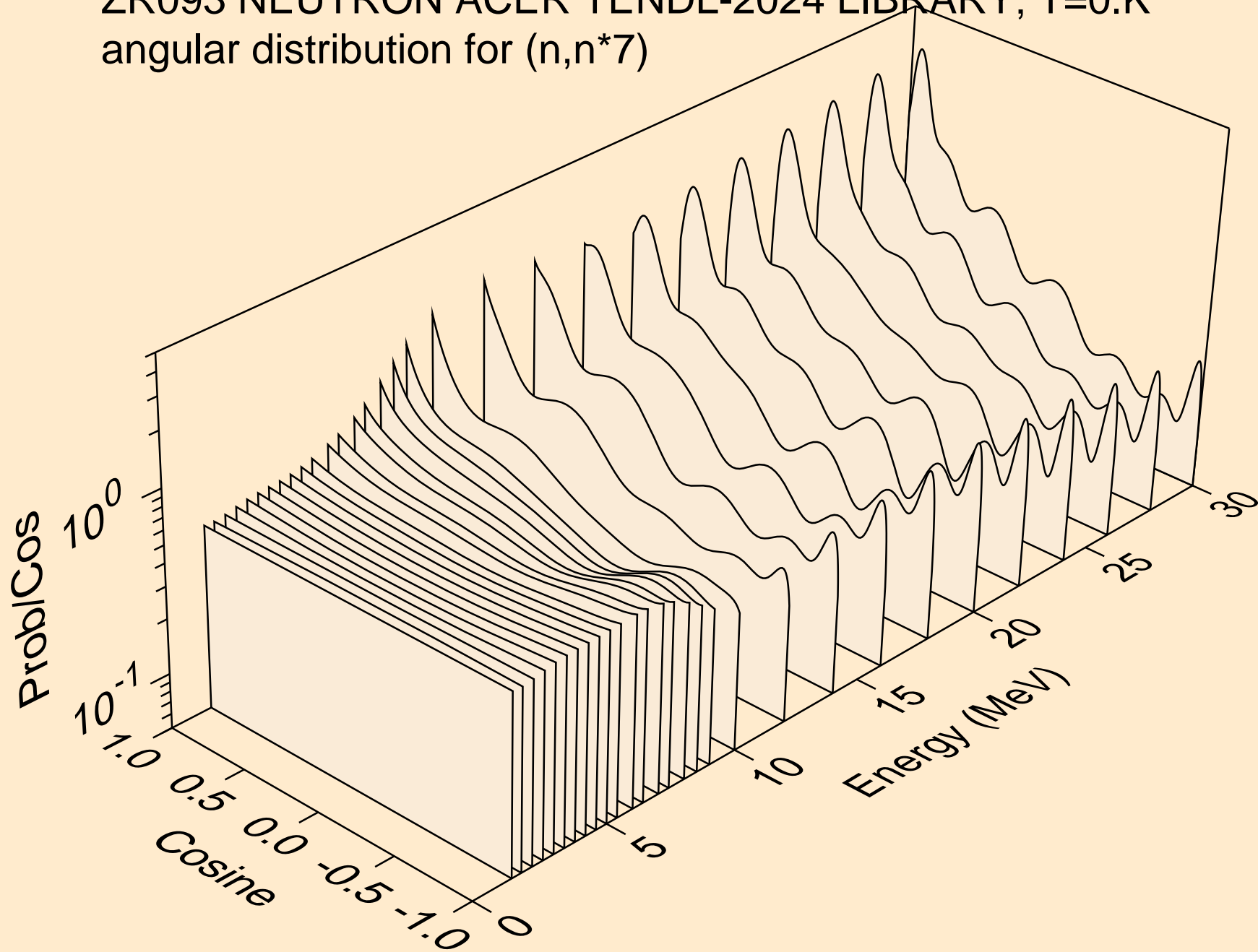
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



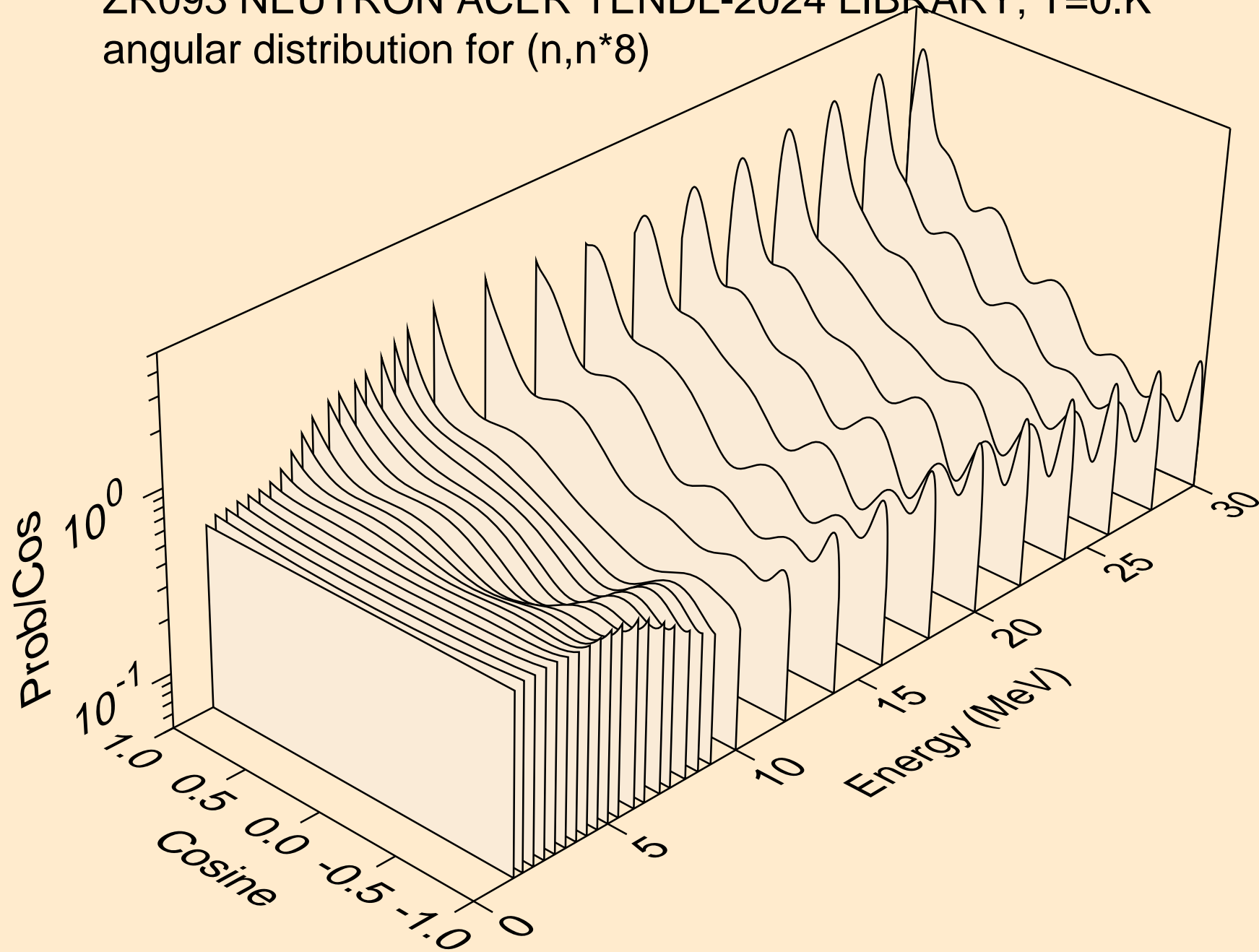
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



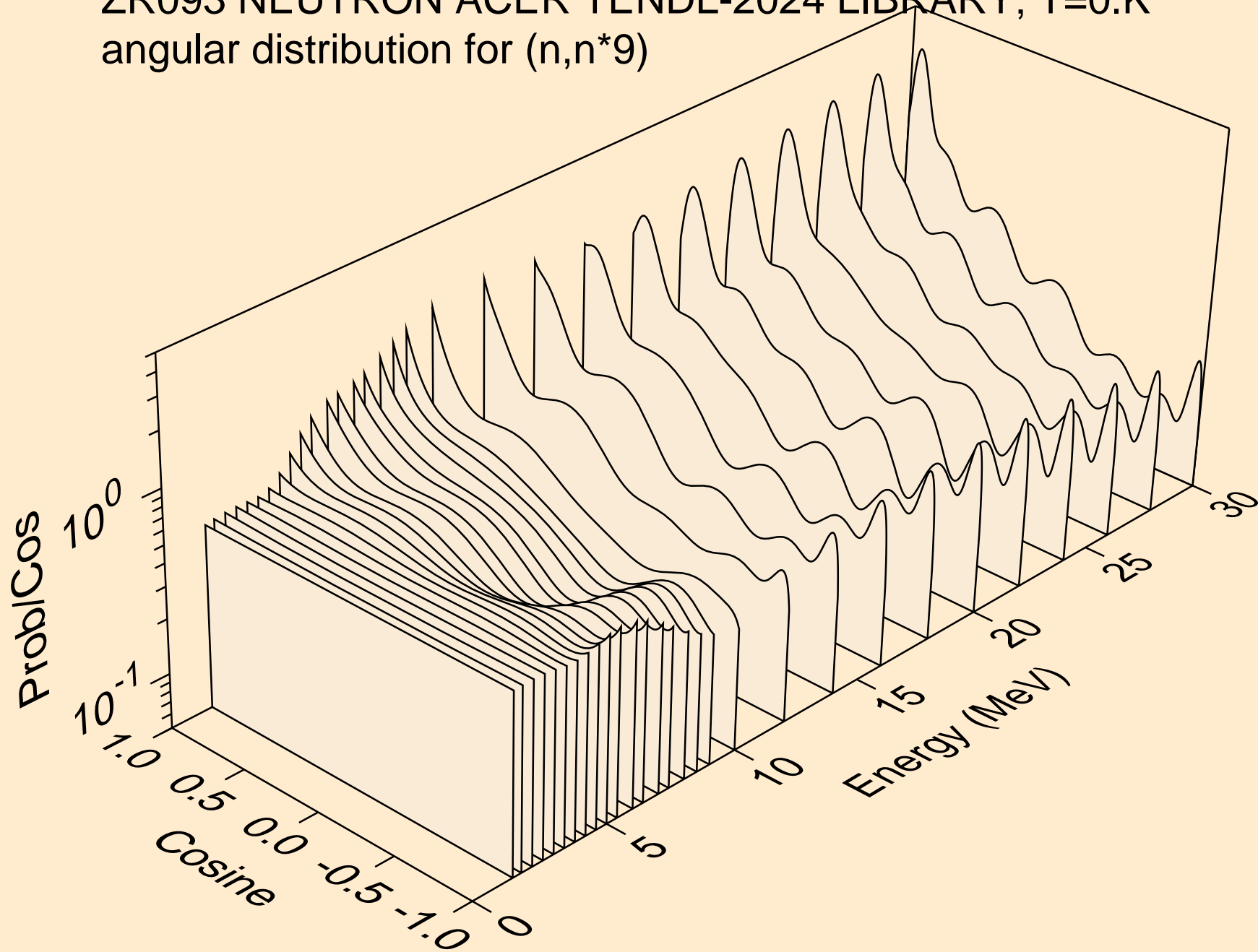
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



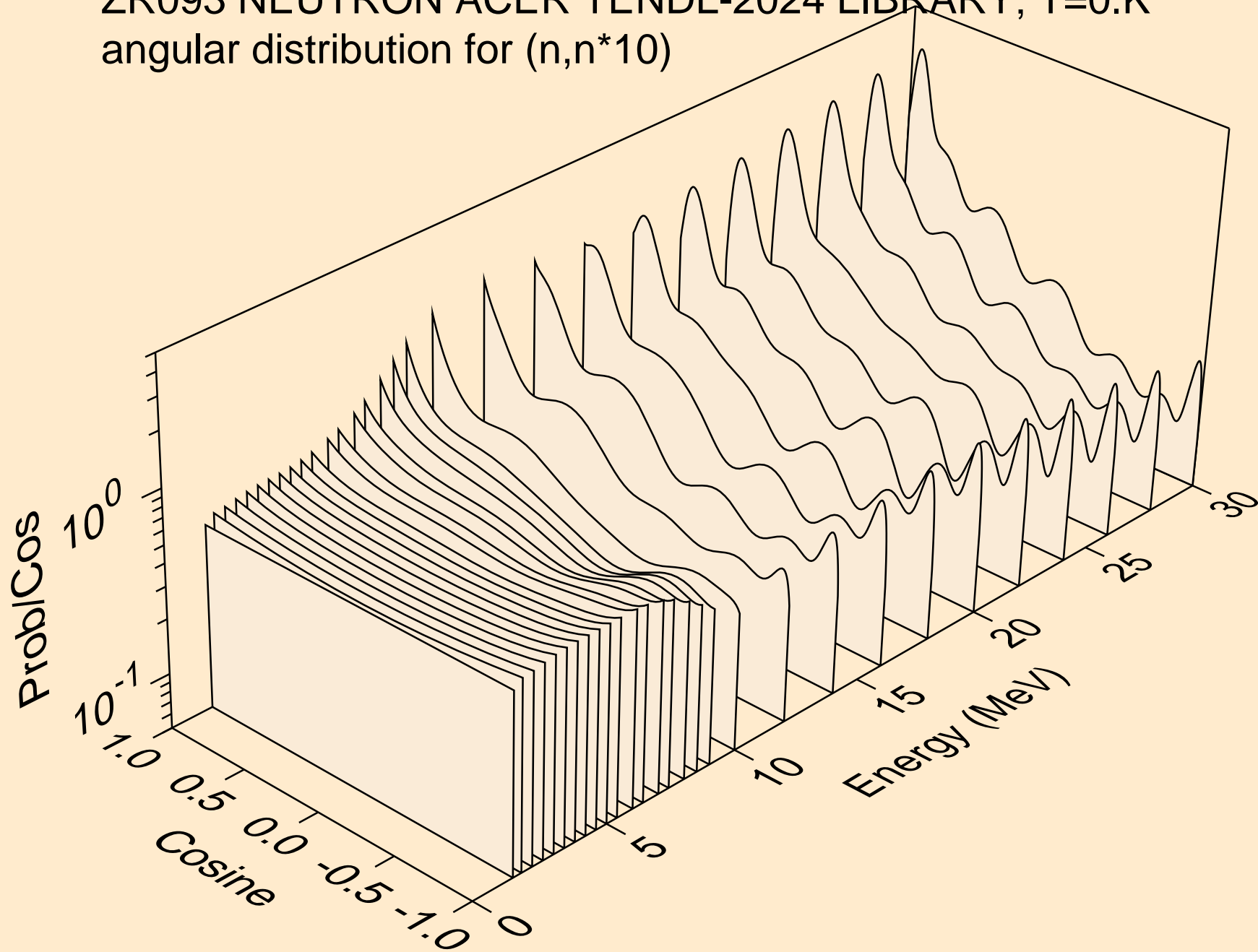
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



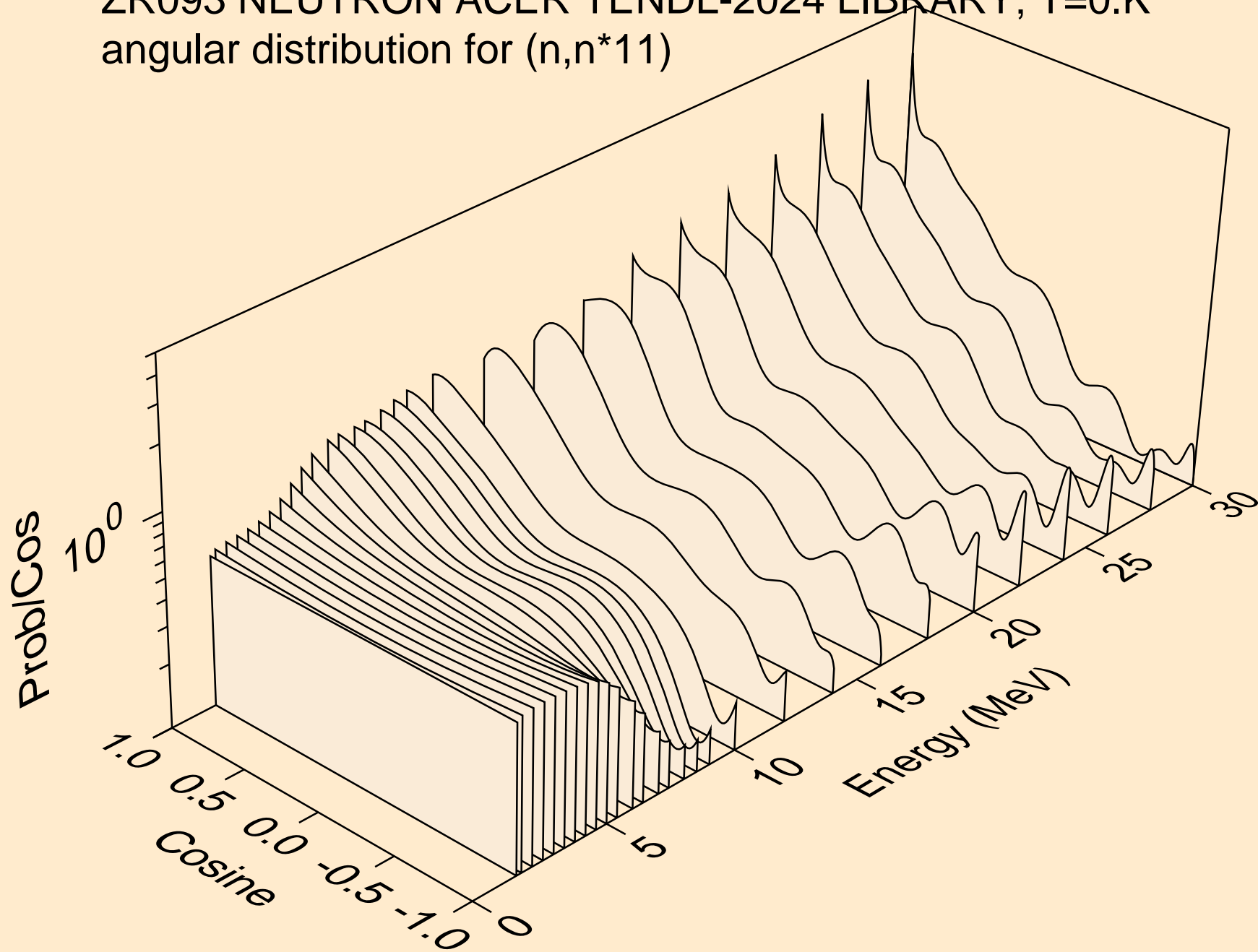
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

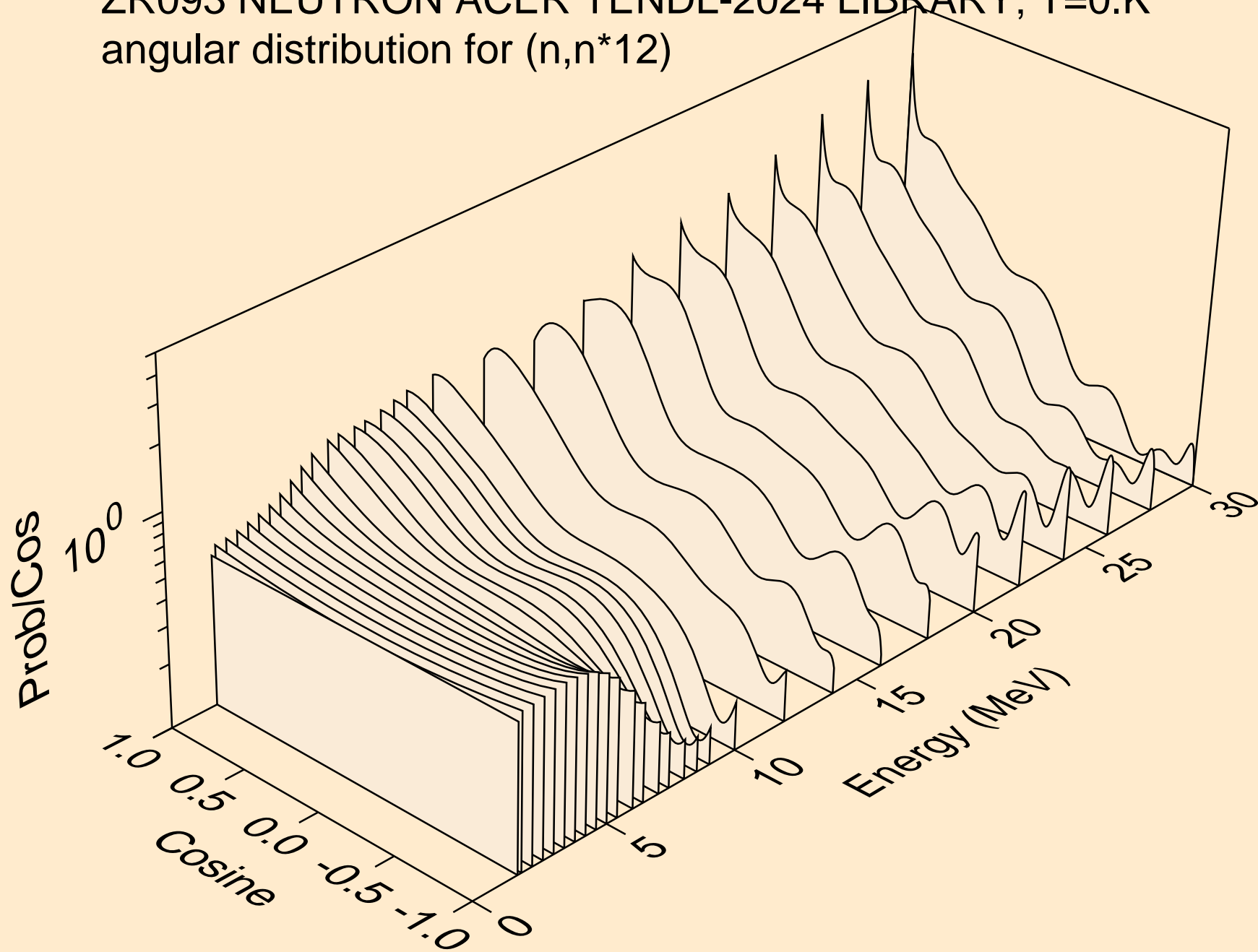


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

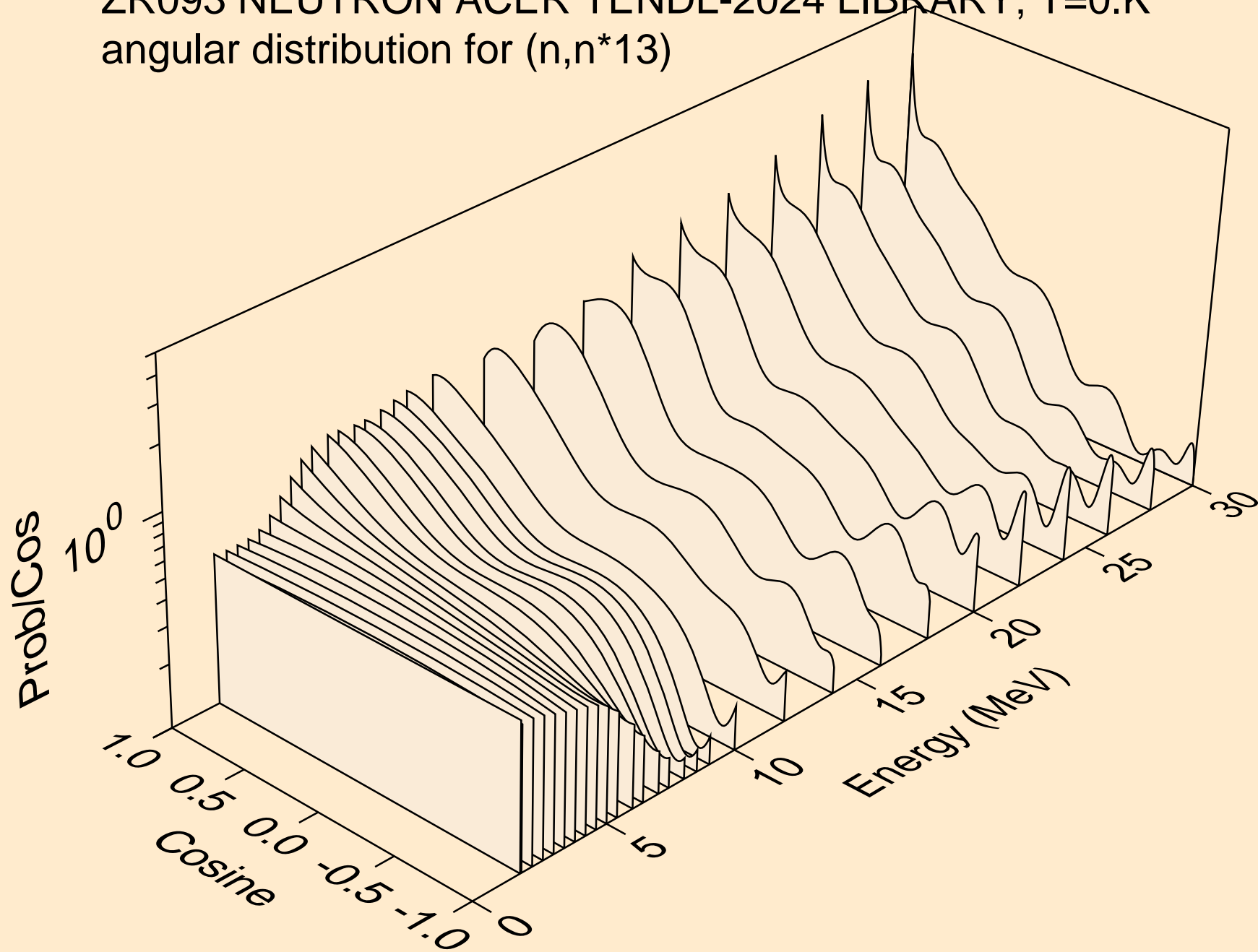




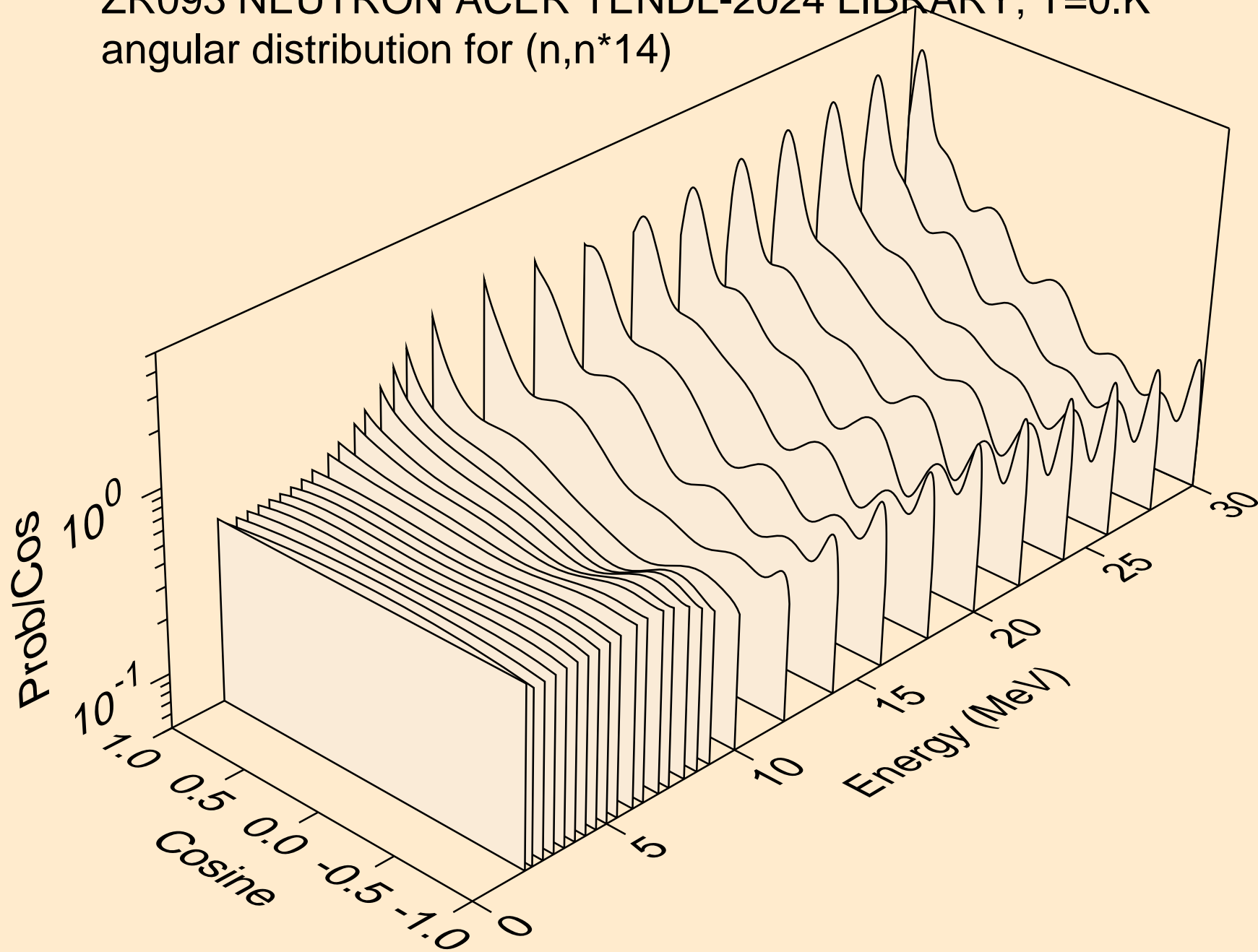
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



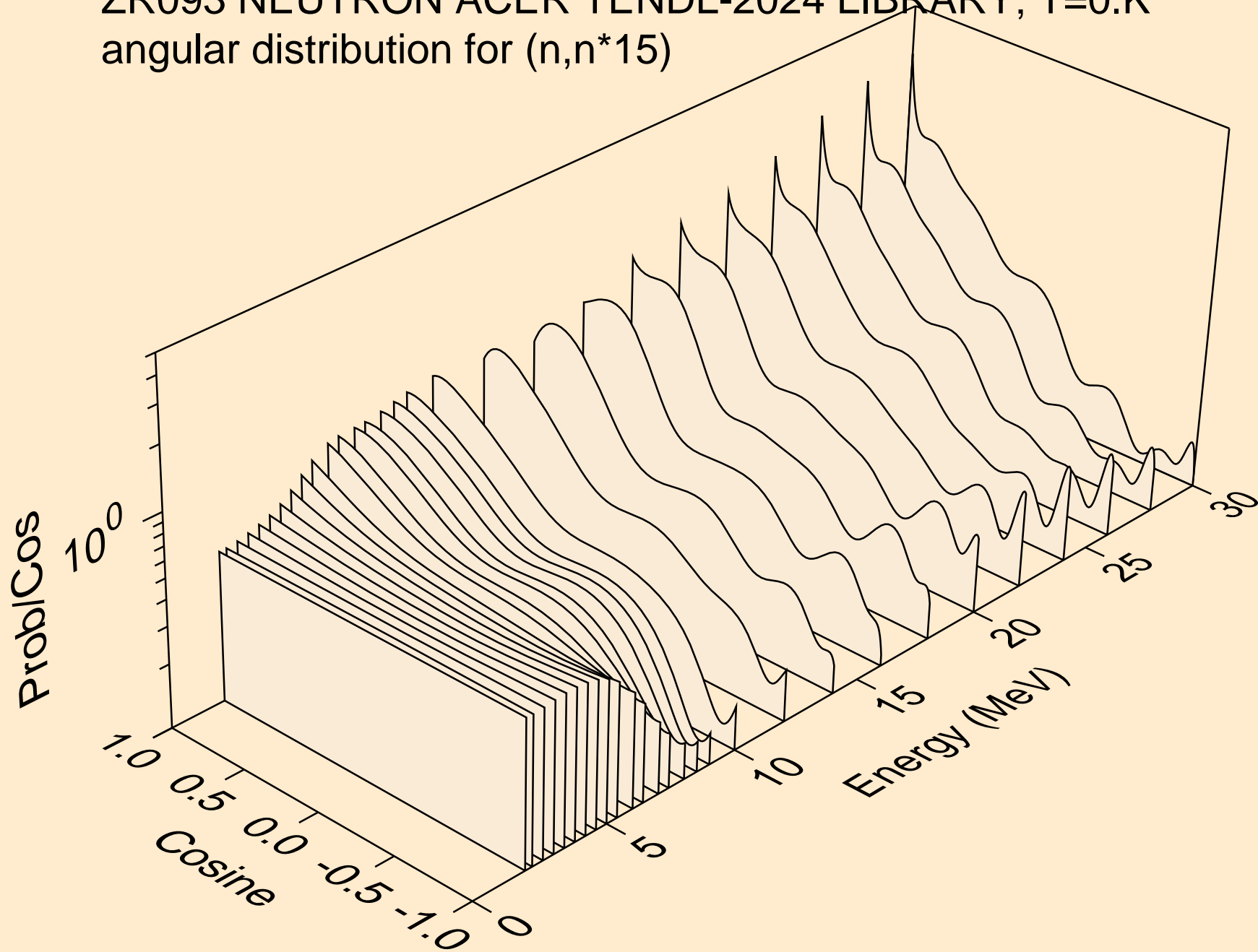
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



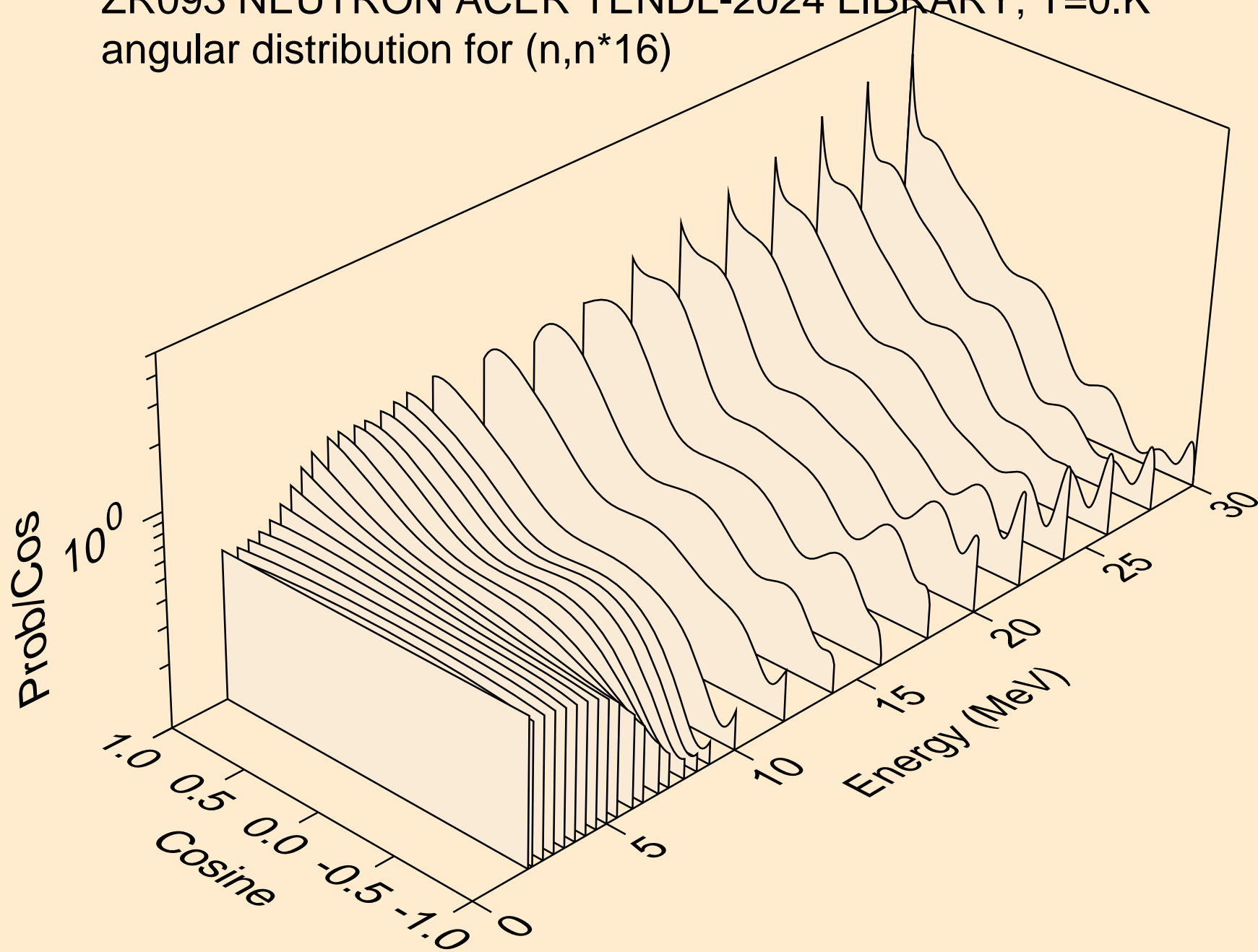
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angular distribution for (n,n\*14)



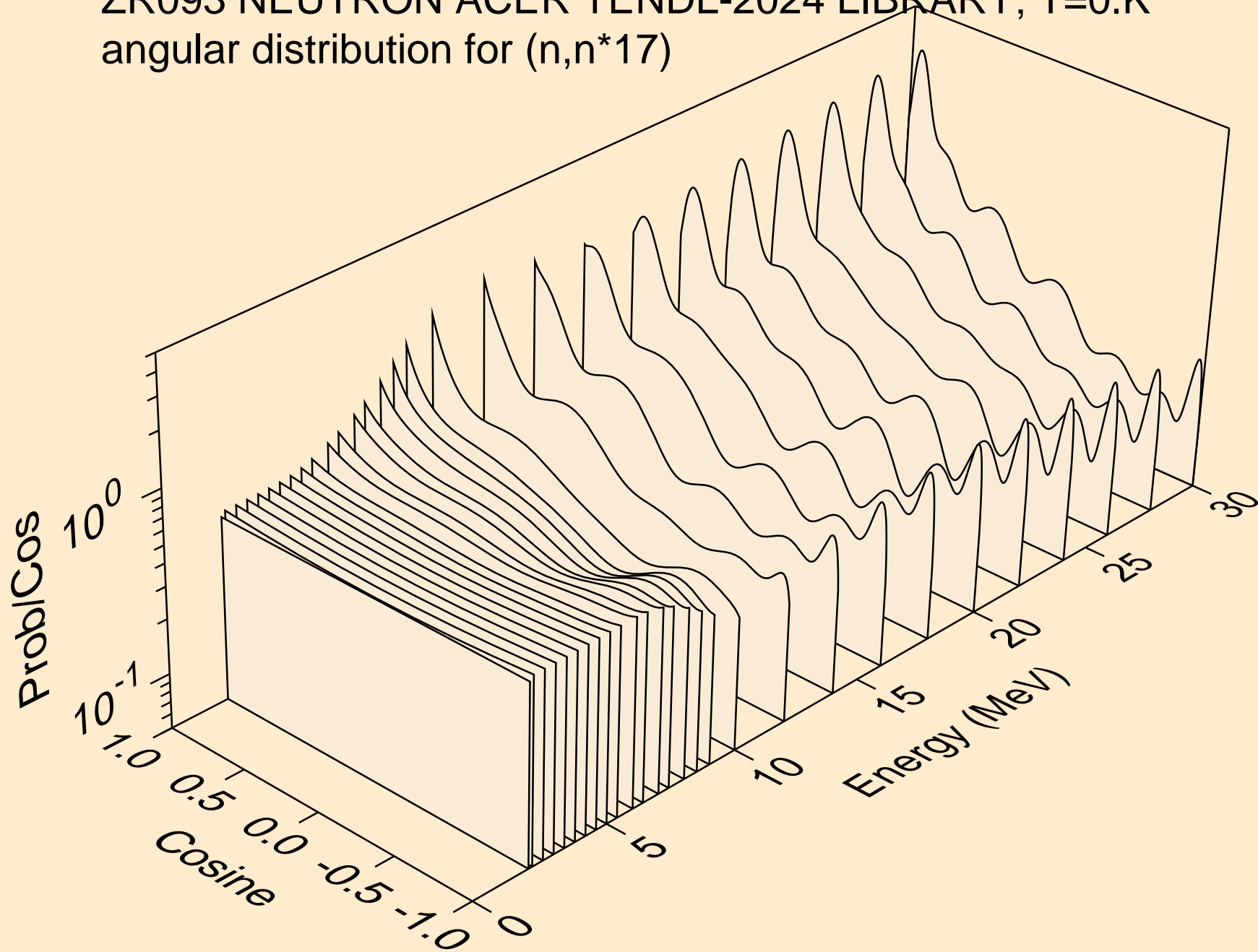
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



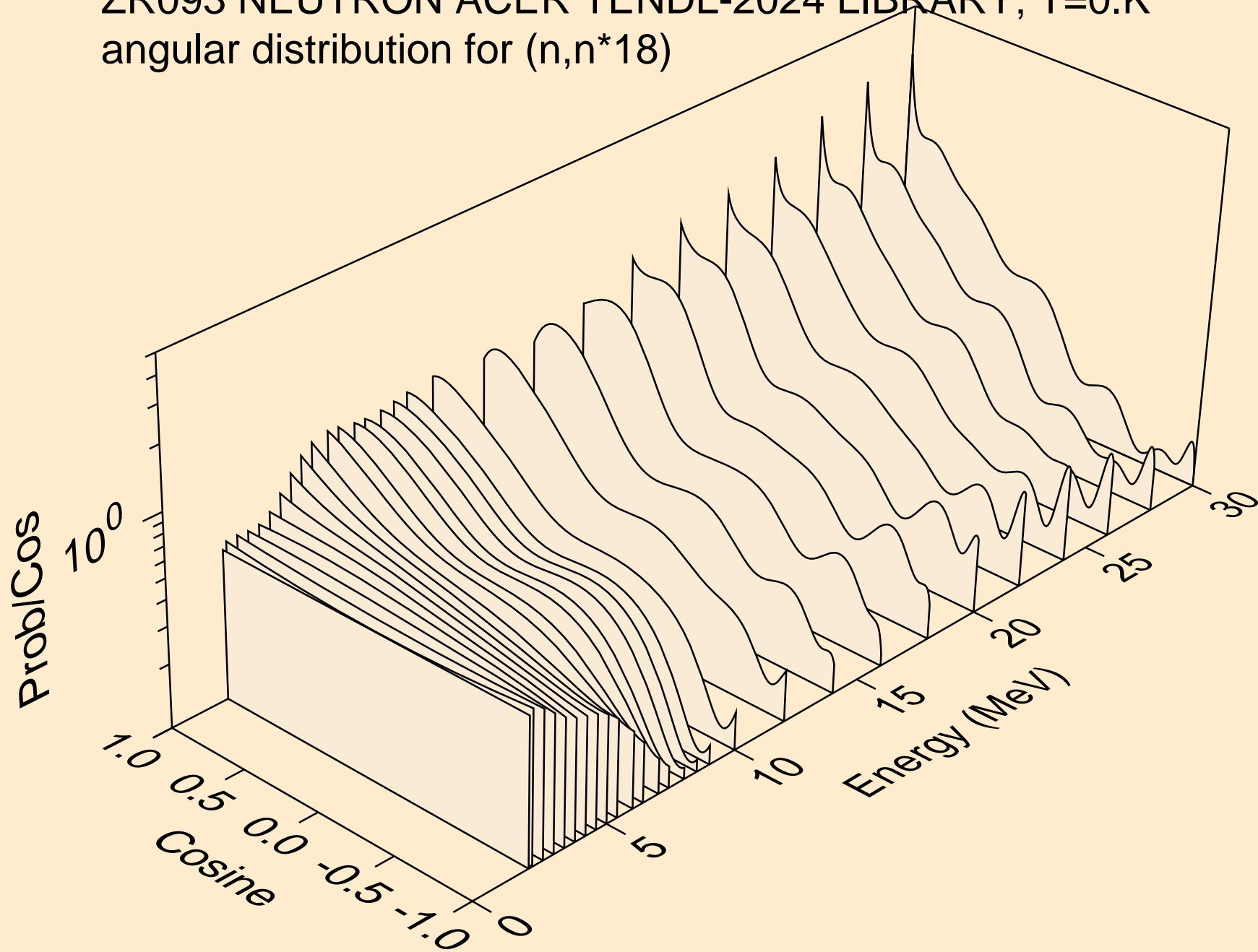
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



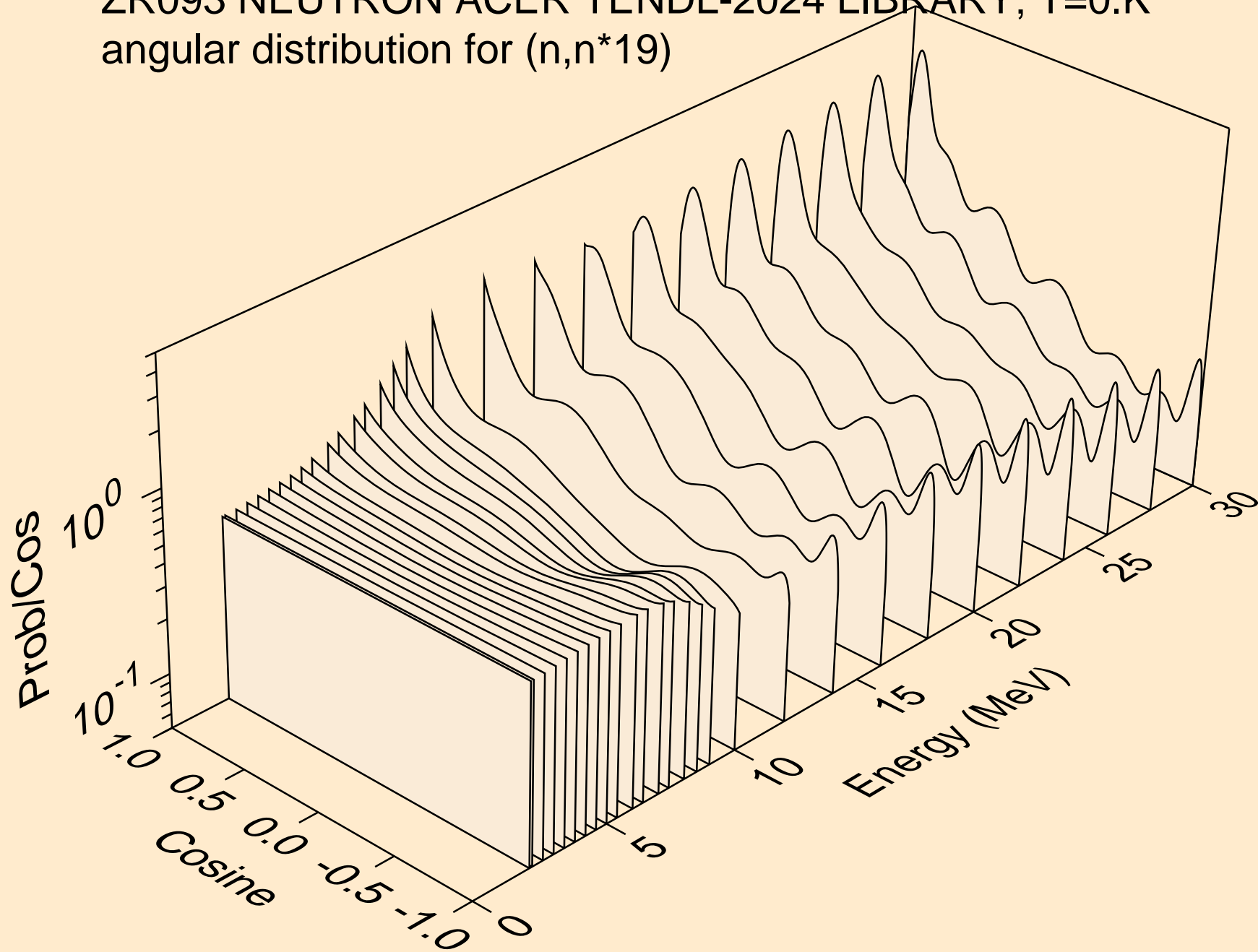
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

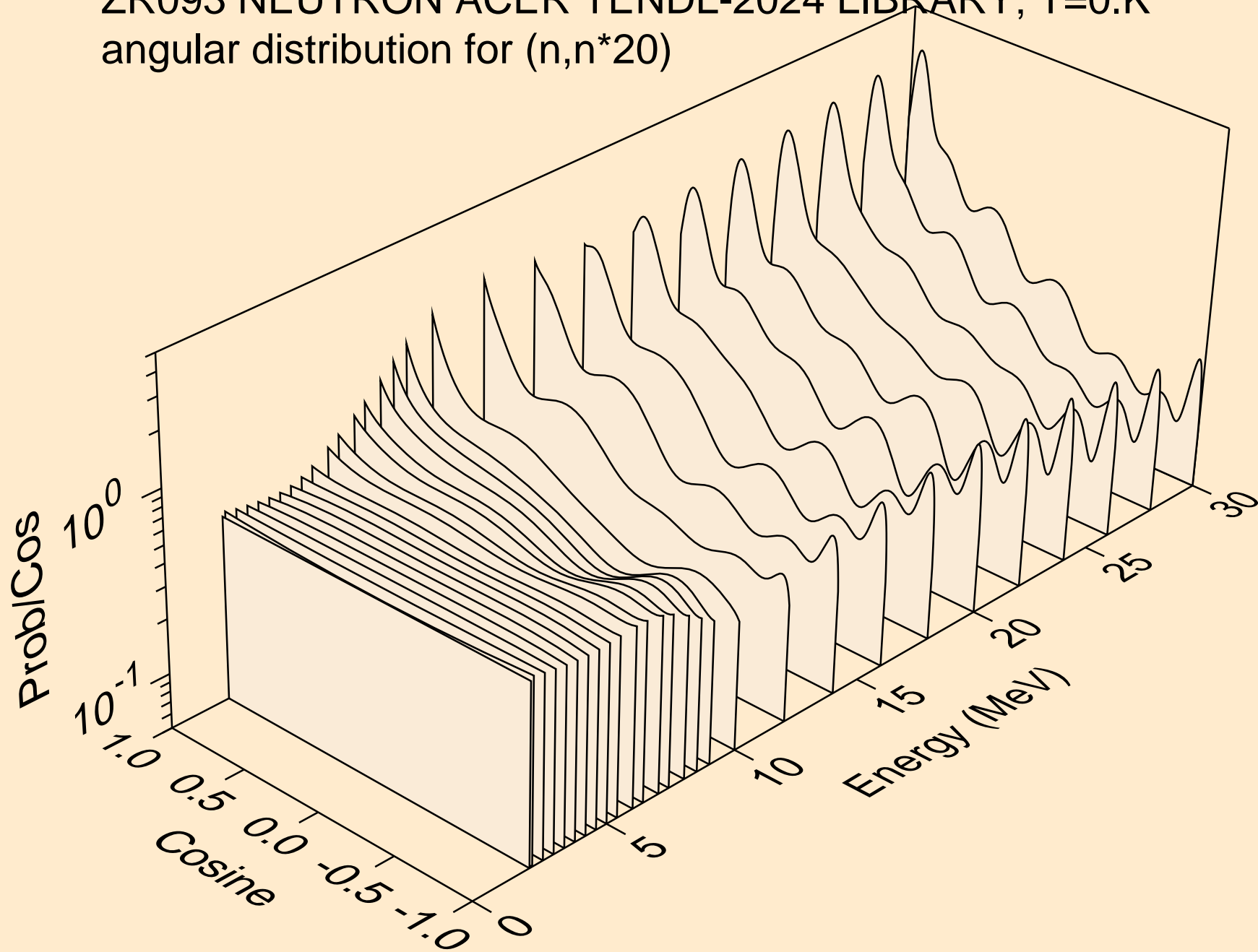


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*19)

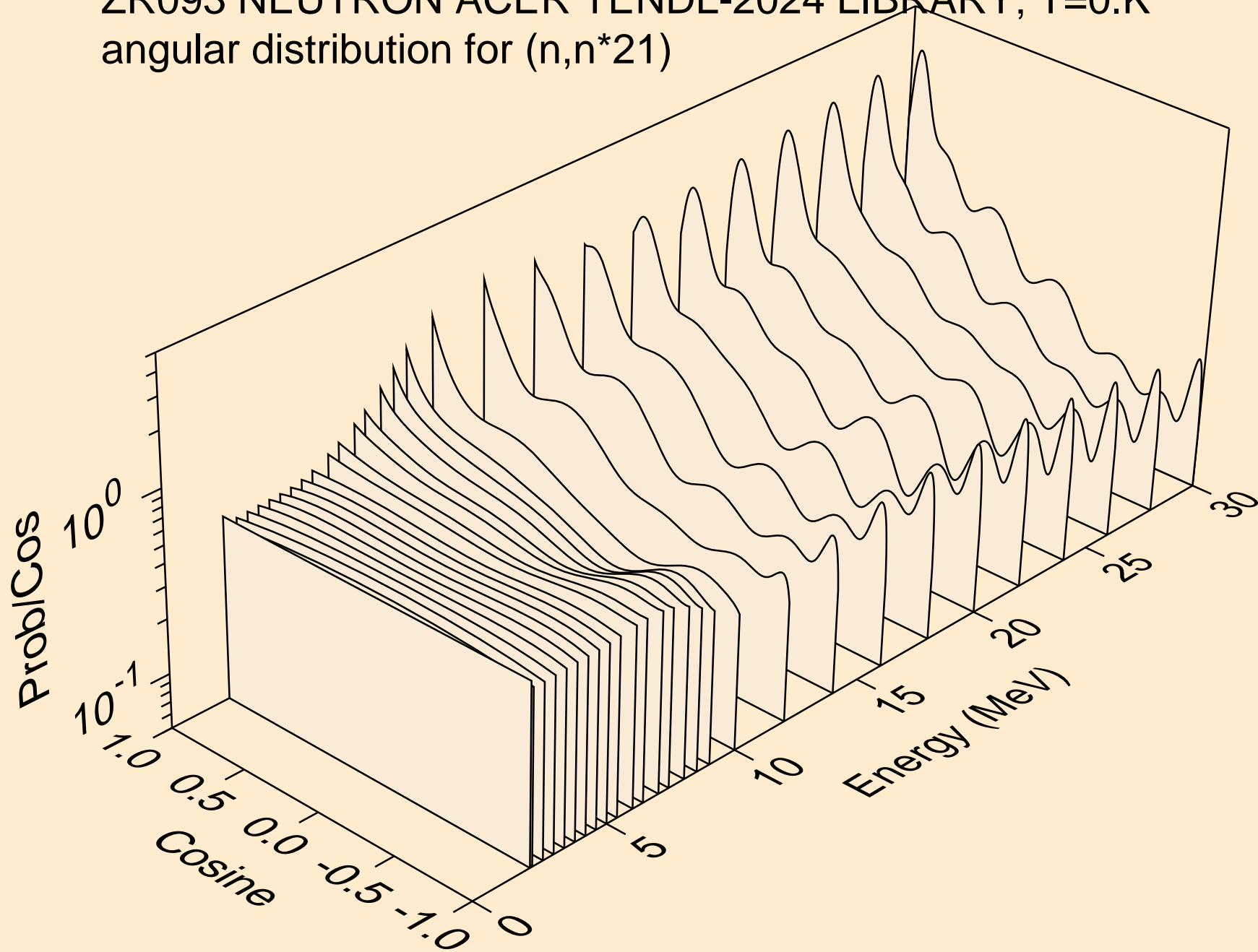




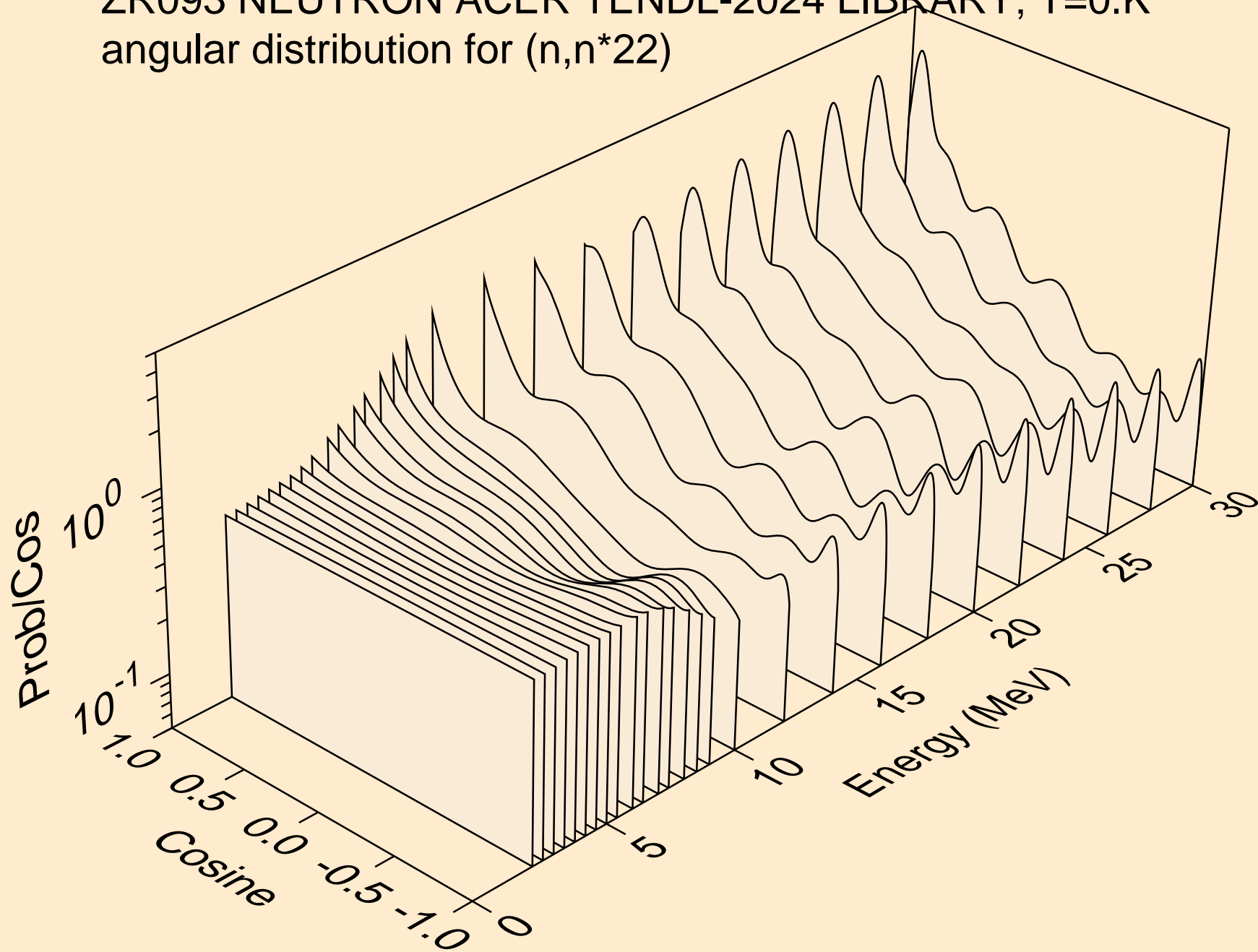
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*20)



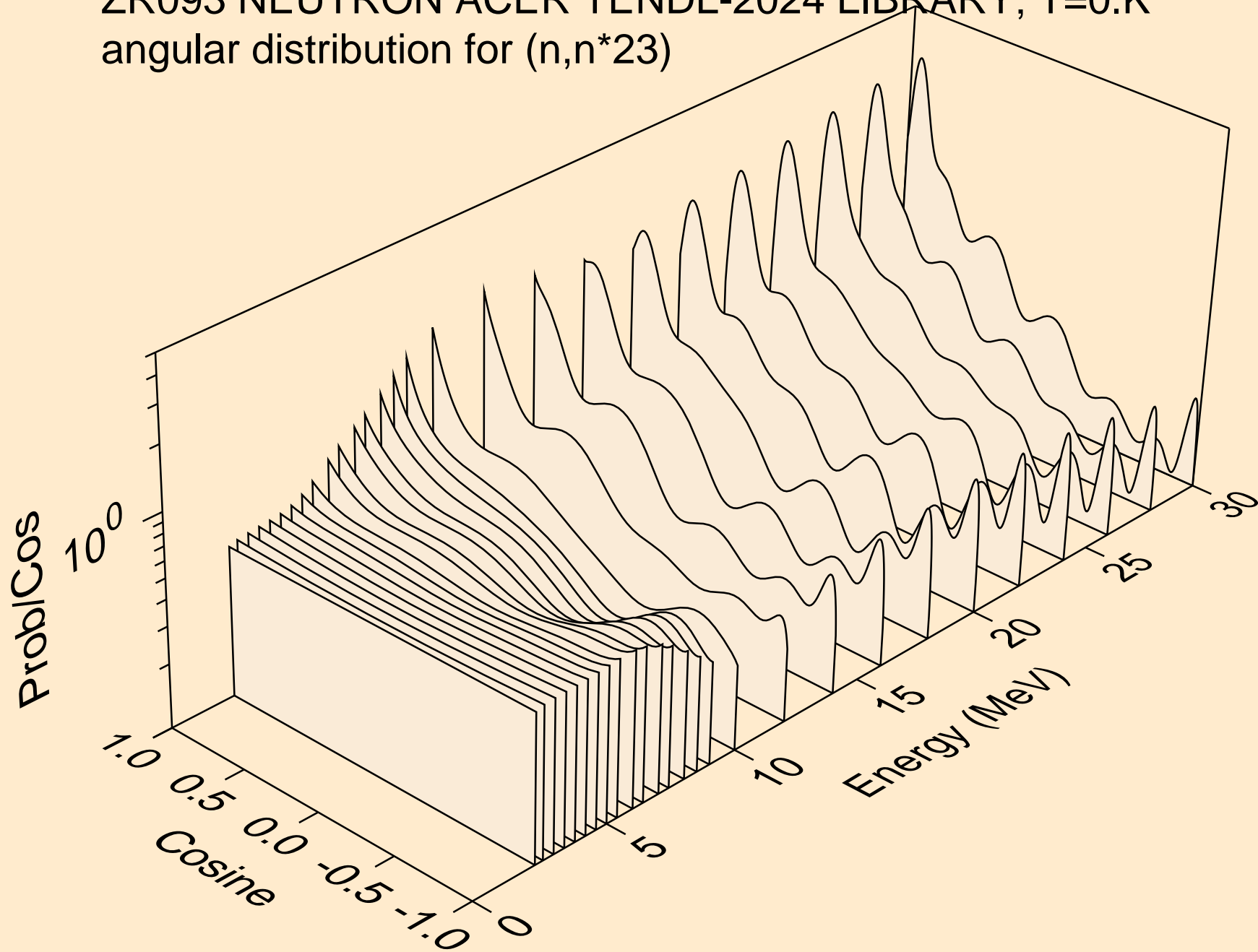
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angular distribution for (n,n\*21)



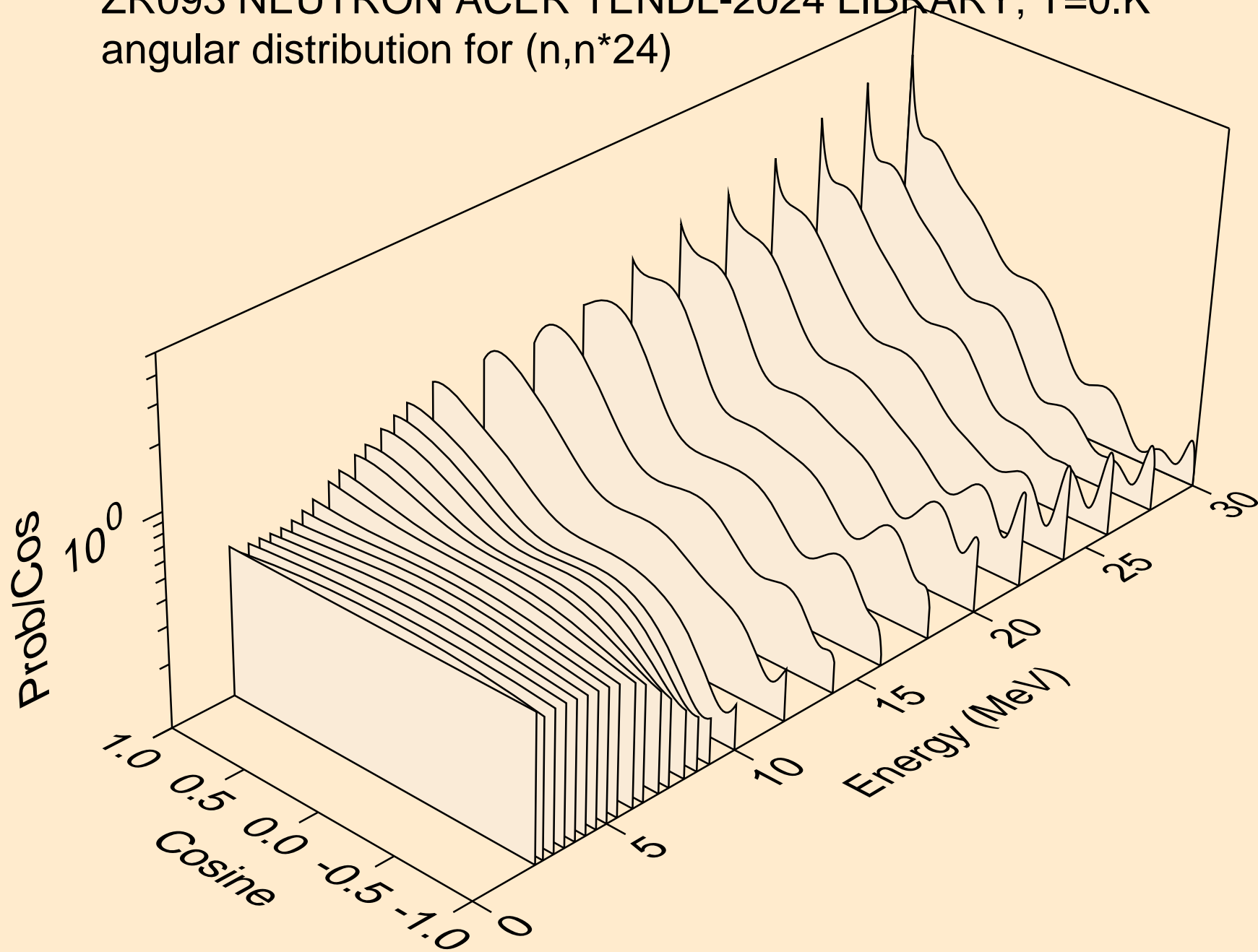
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*22)



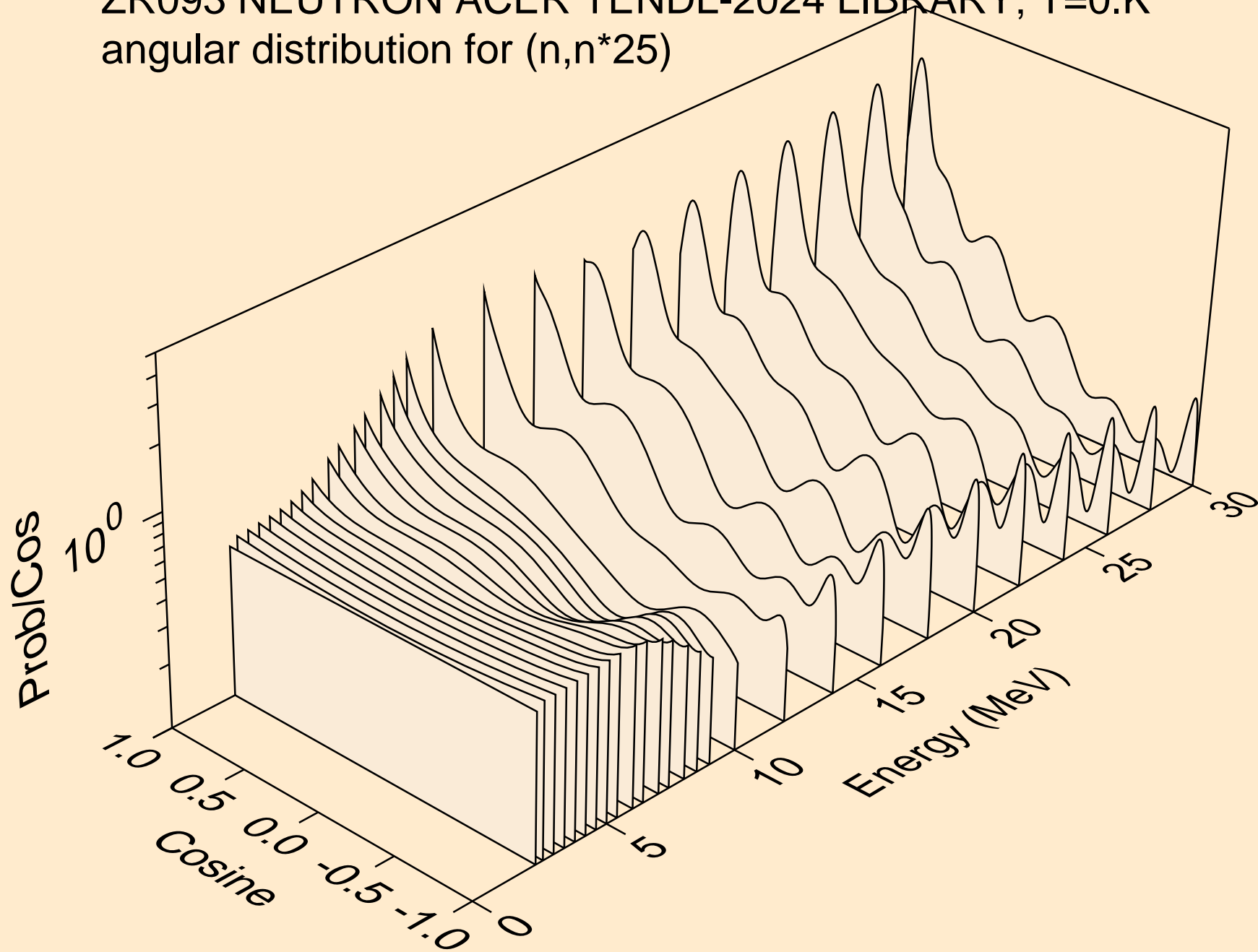
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*23)



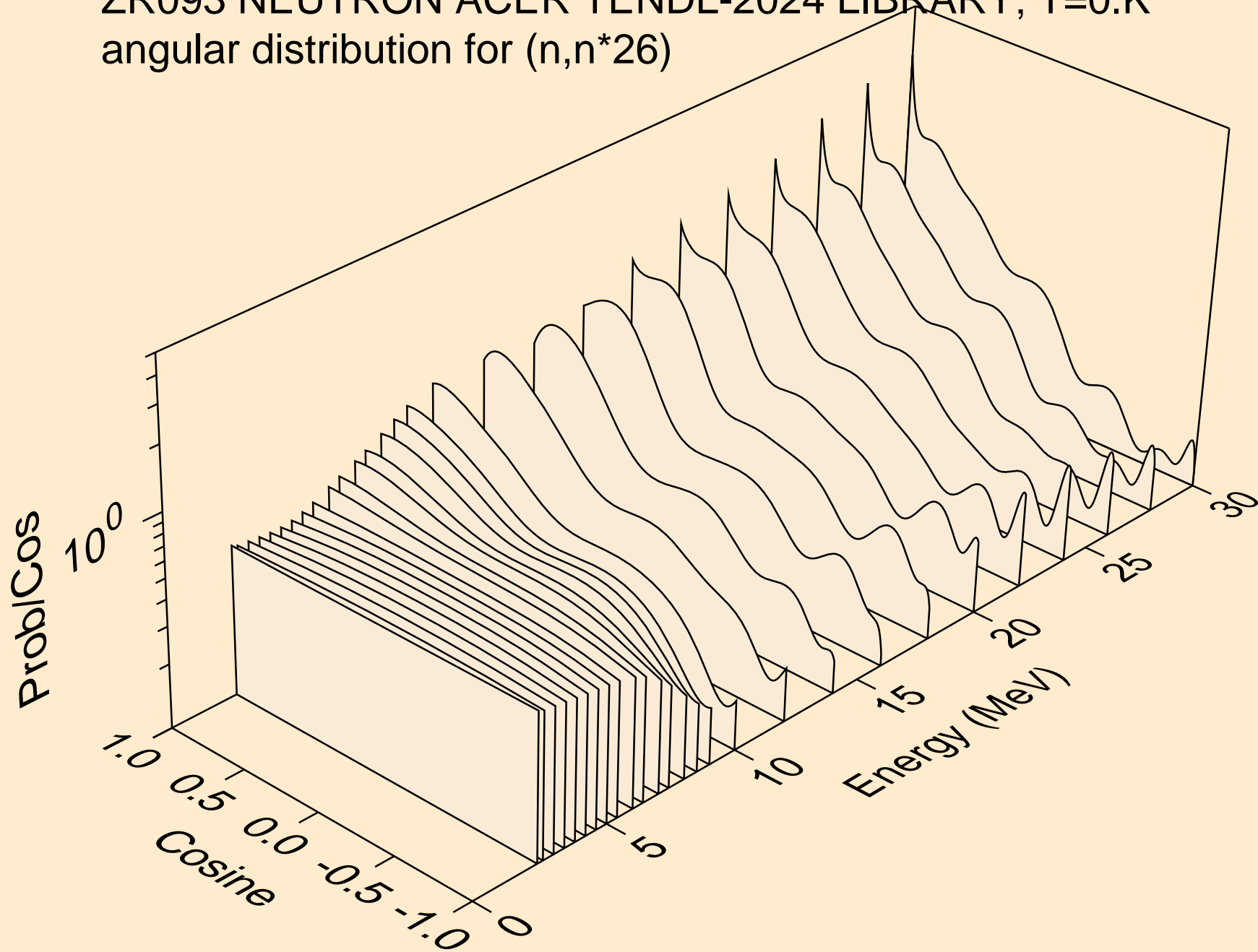
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*24)



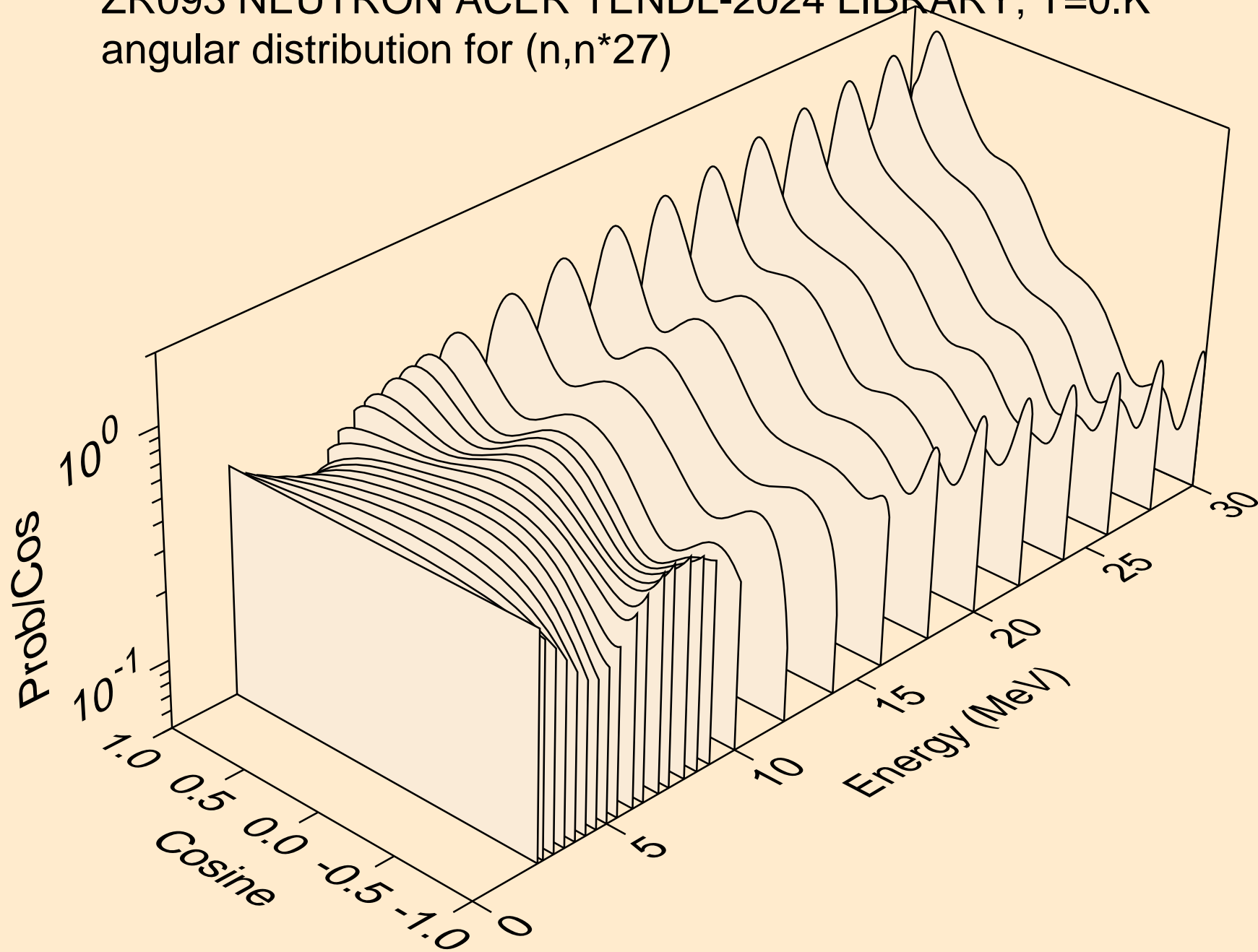
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)

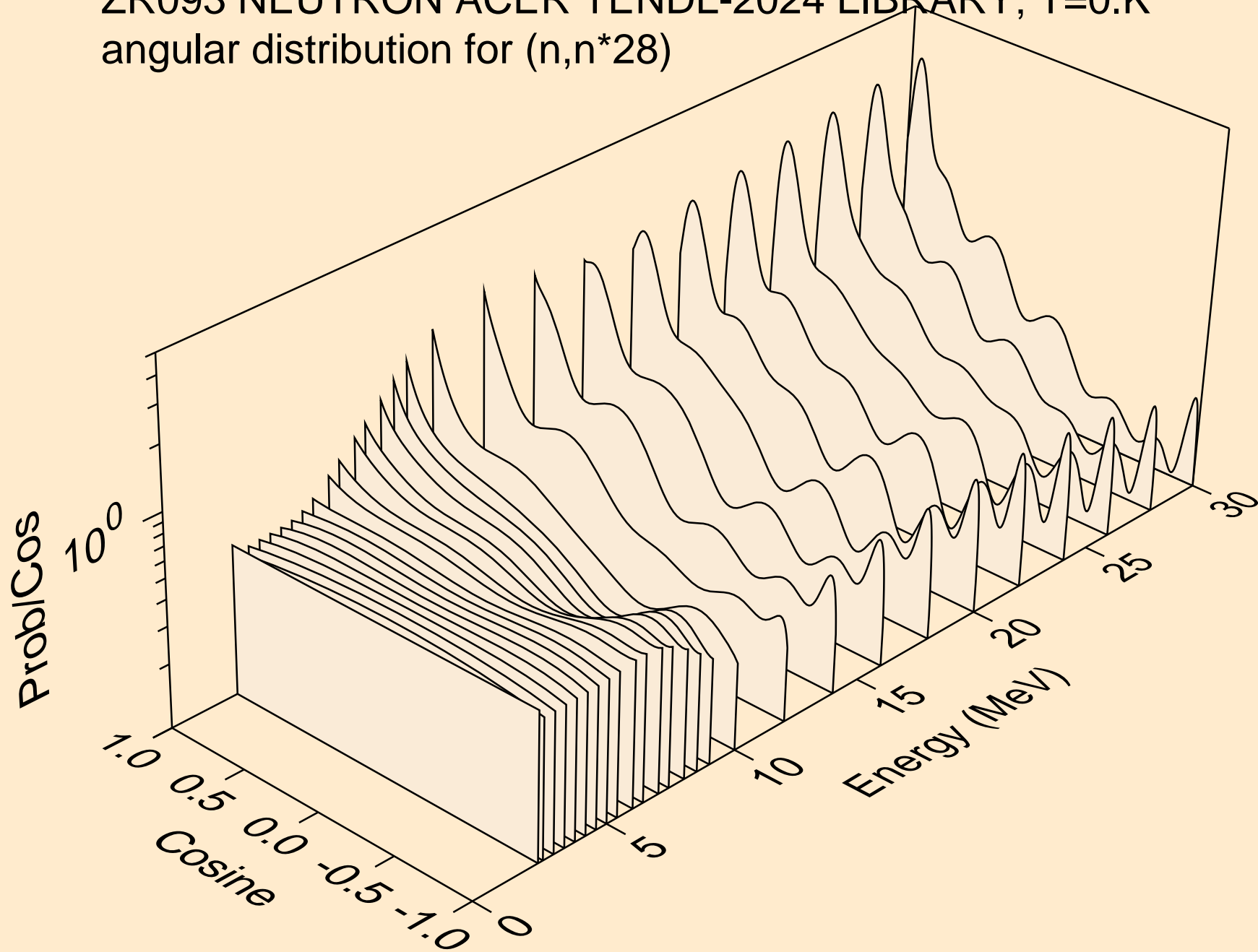


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*27)

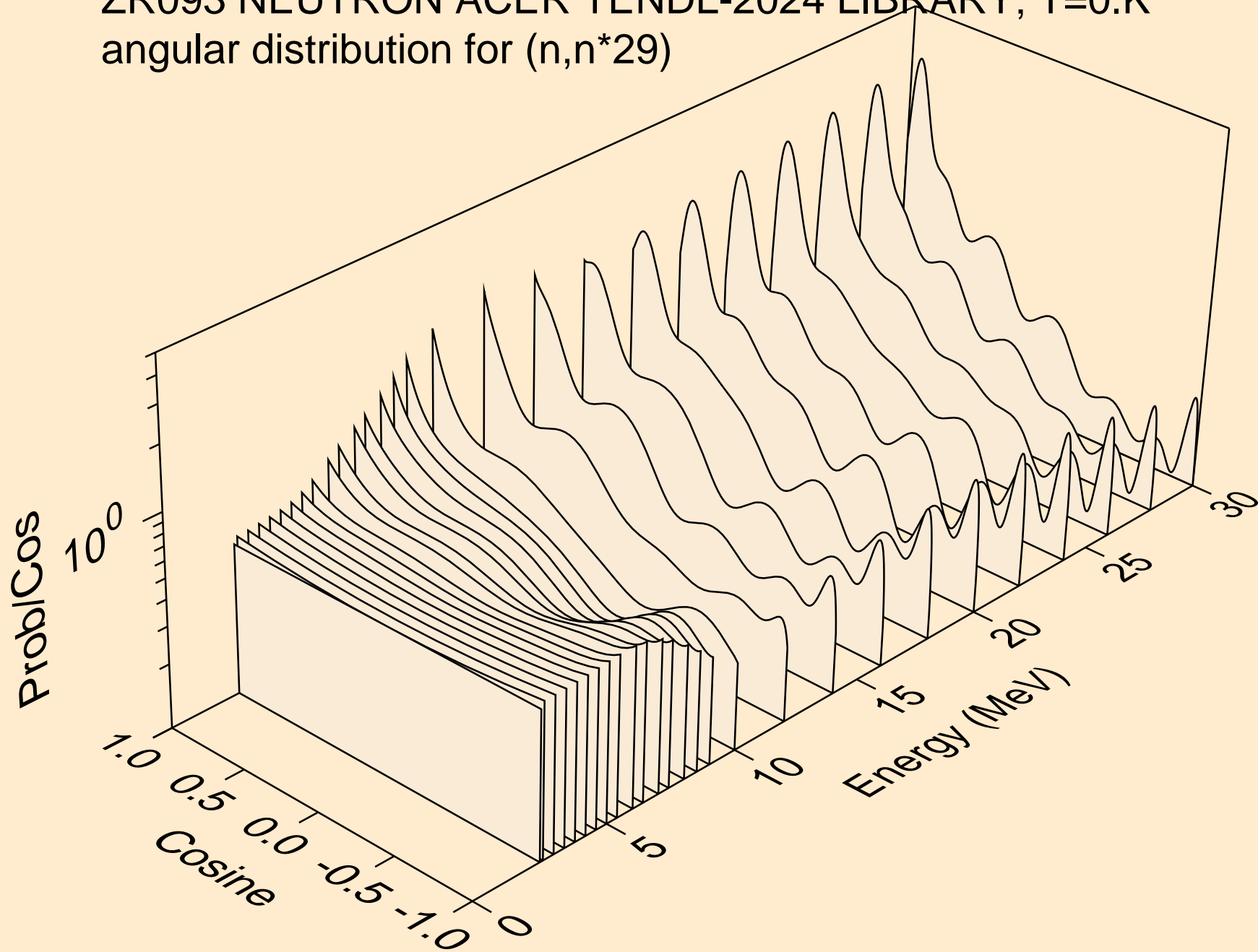




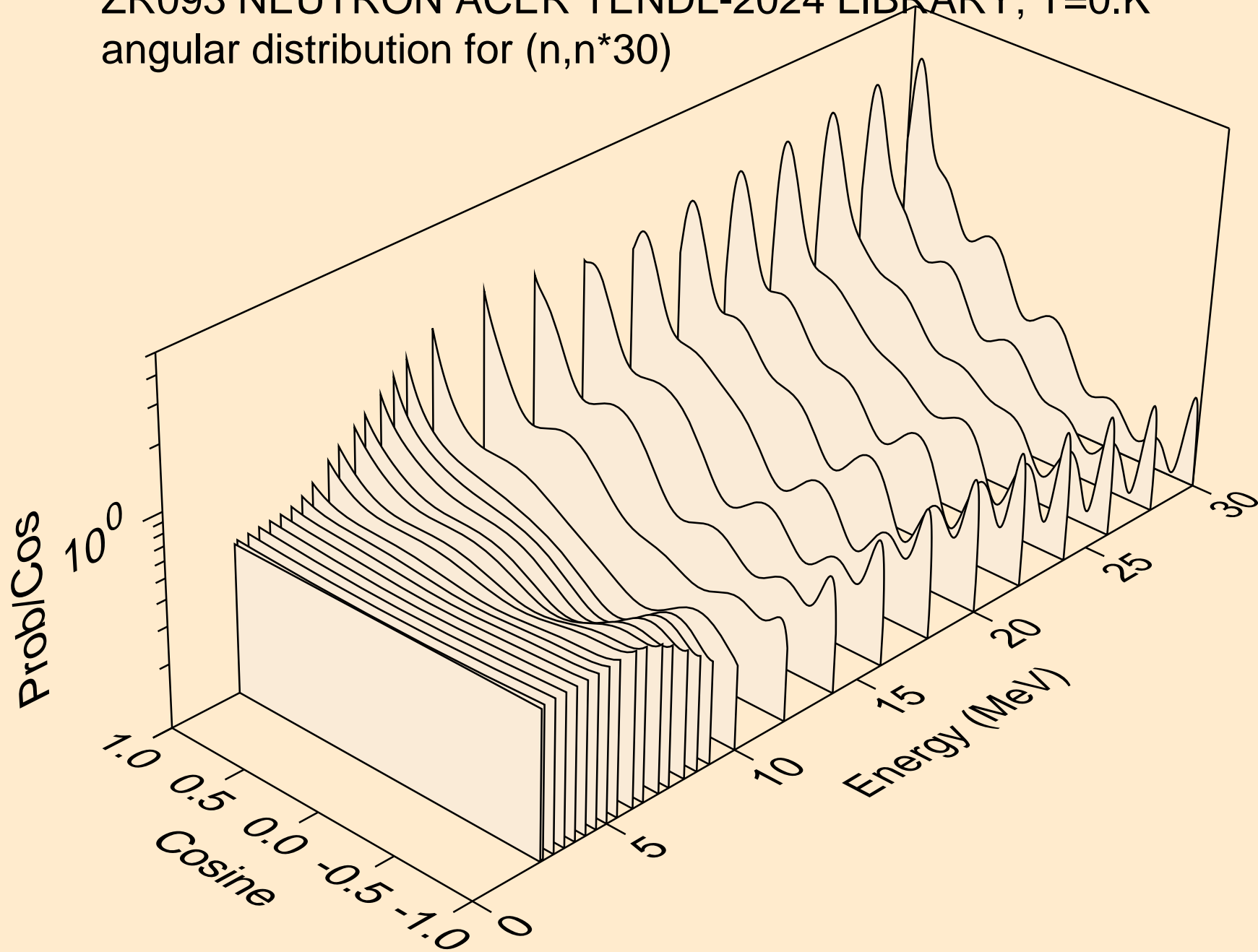
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*28)



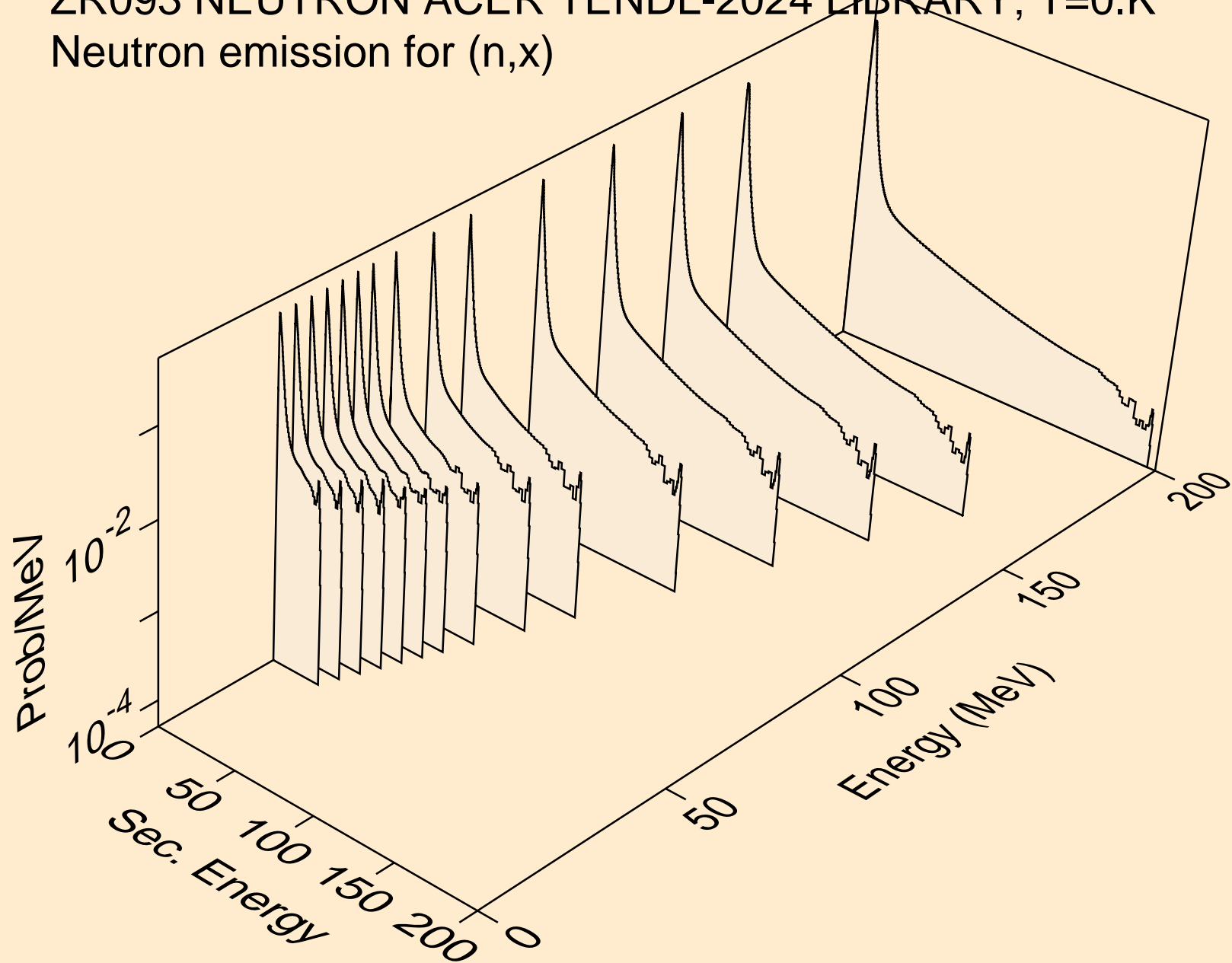
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*29)



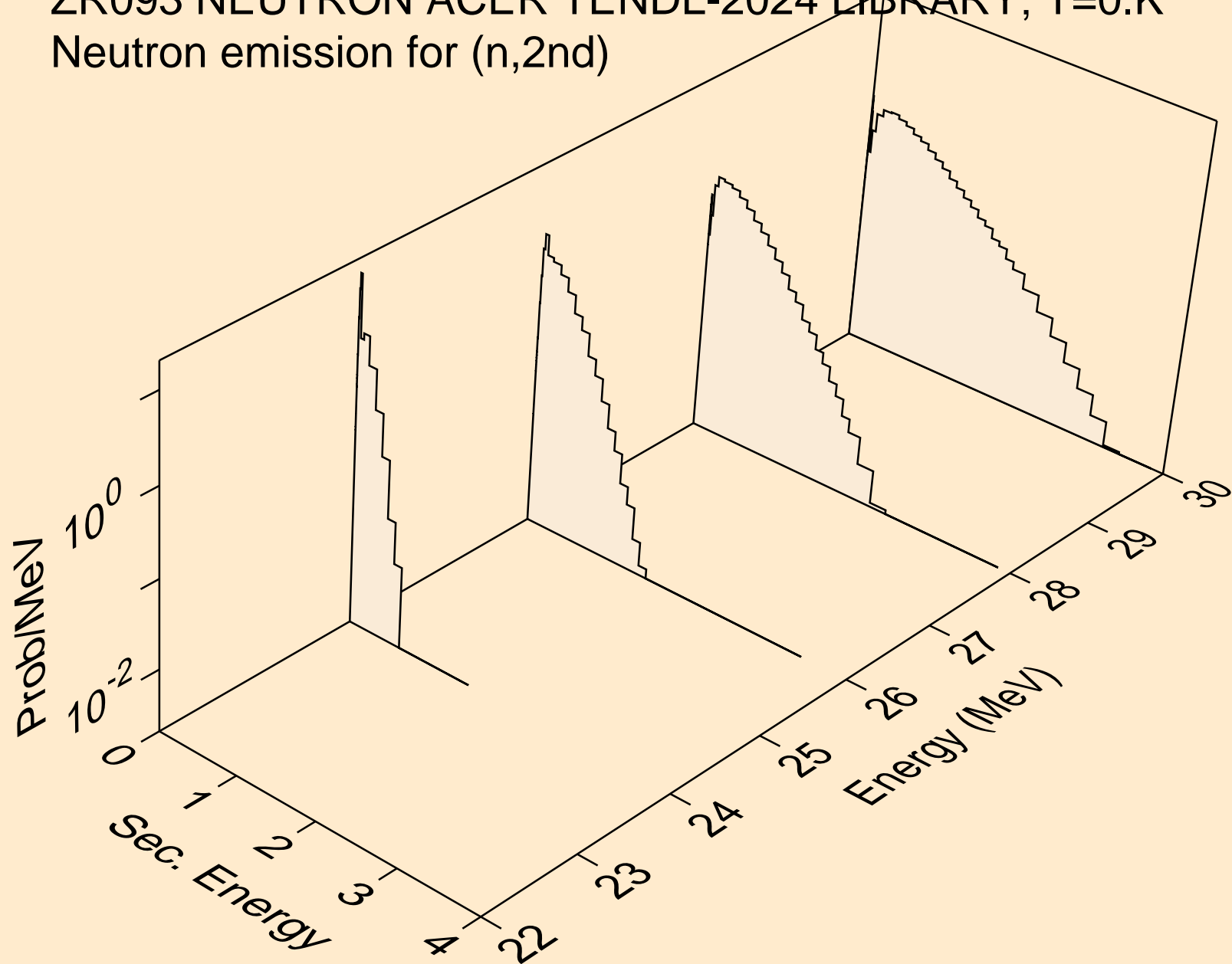
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*30)



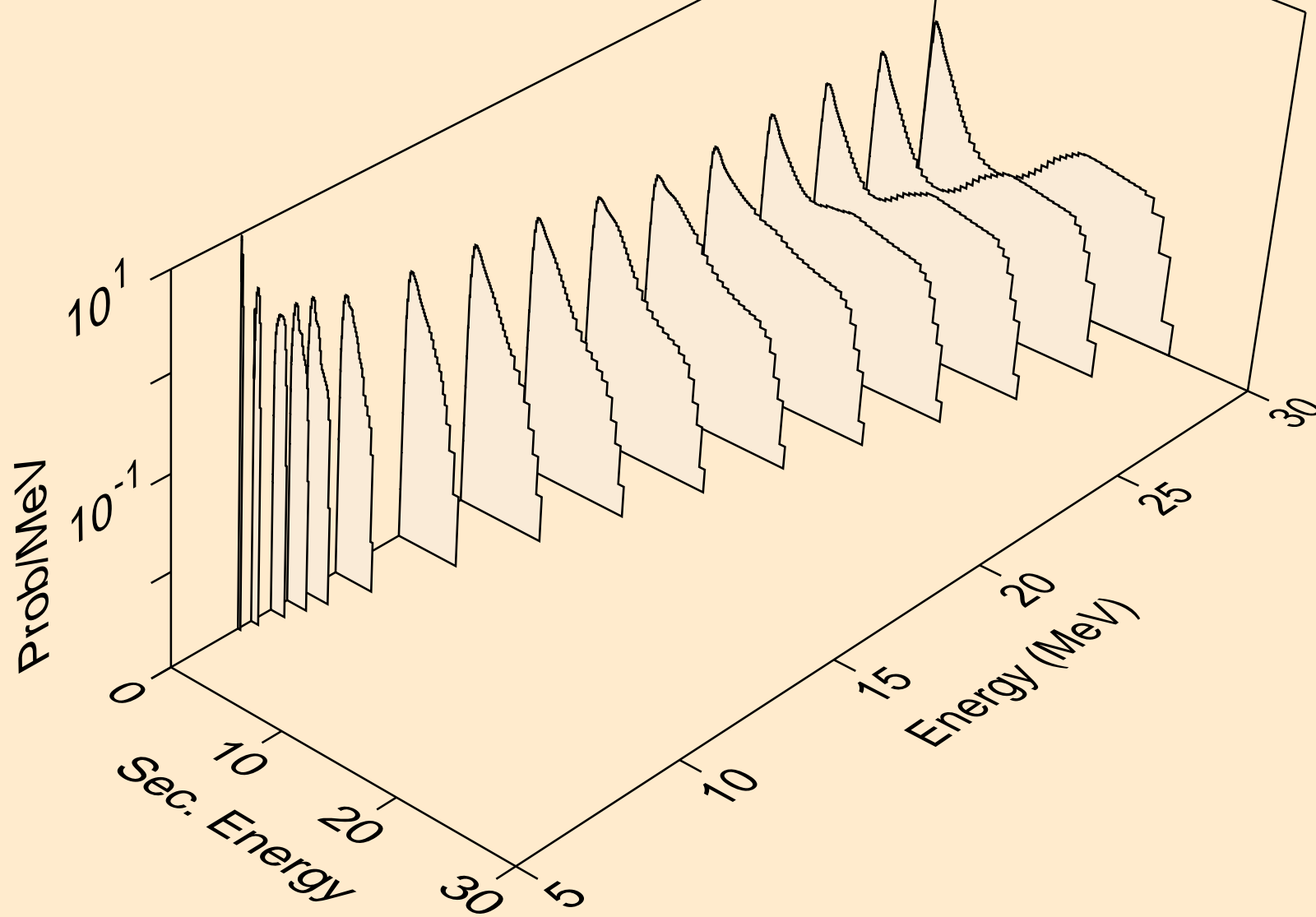
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



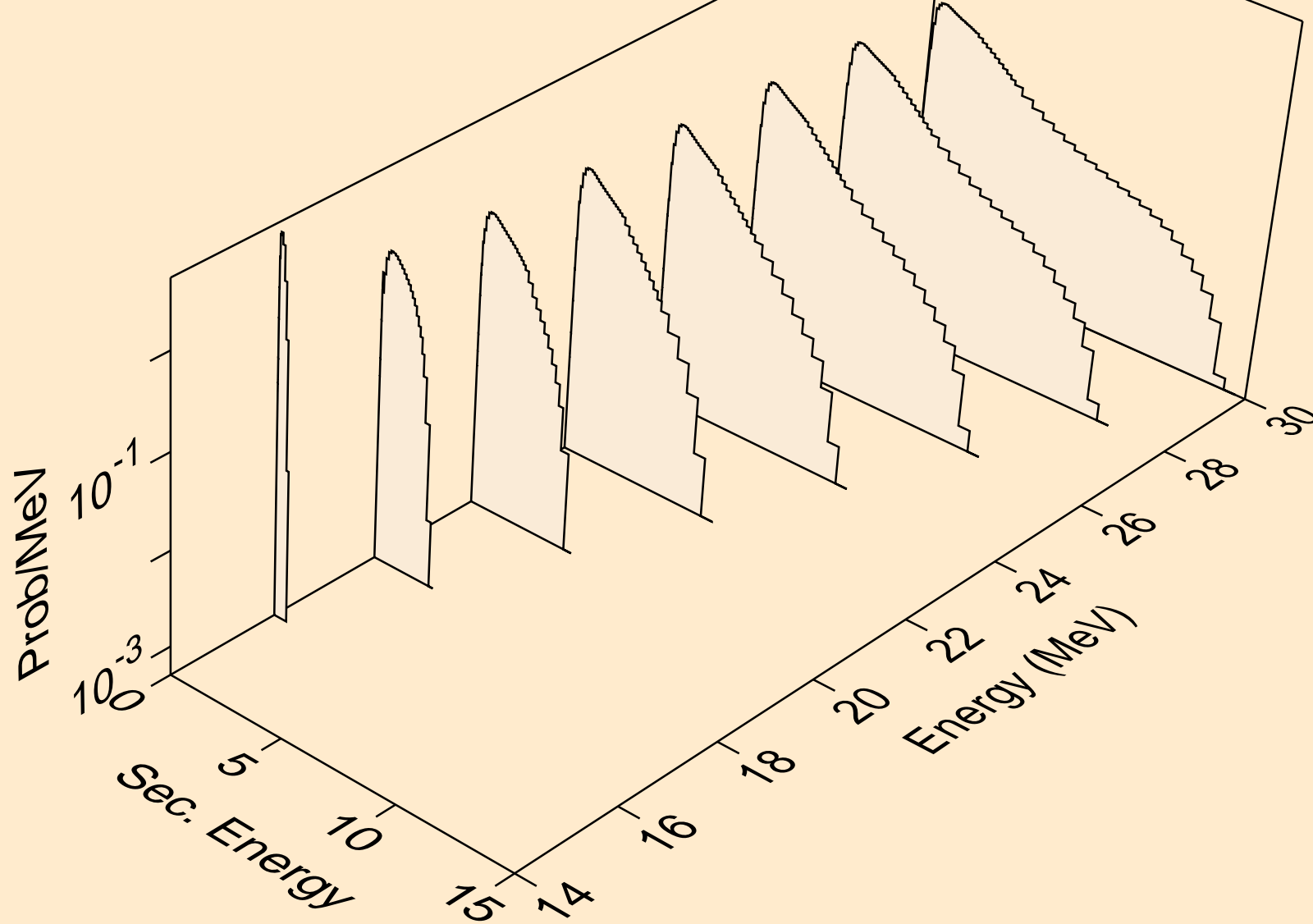
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



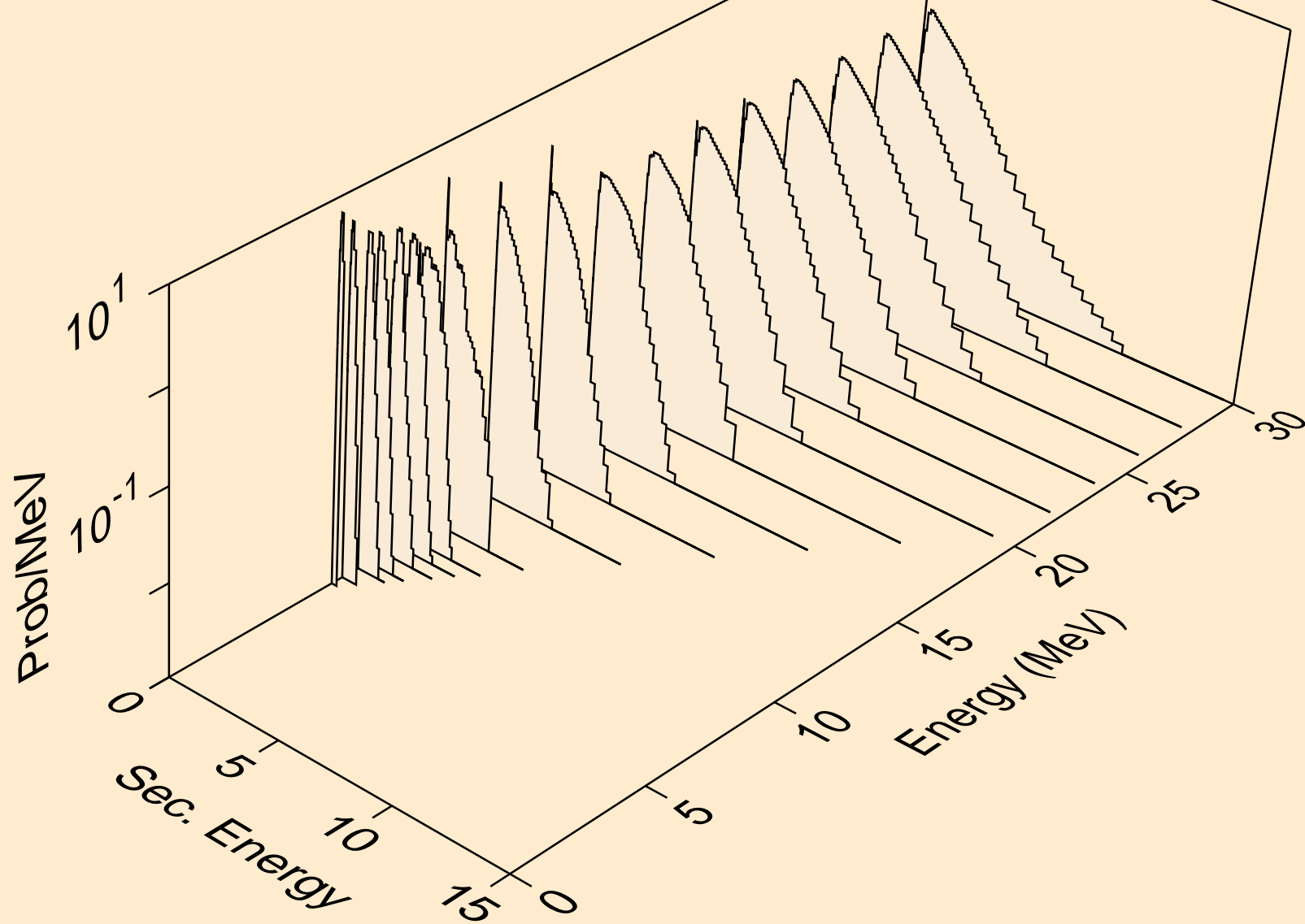
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)

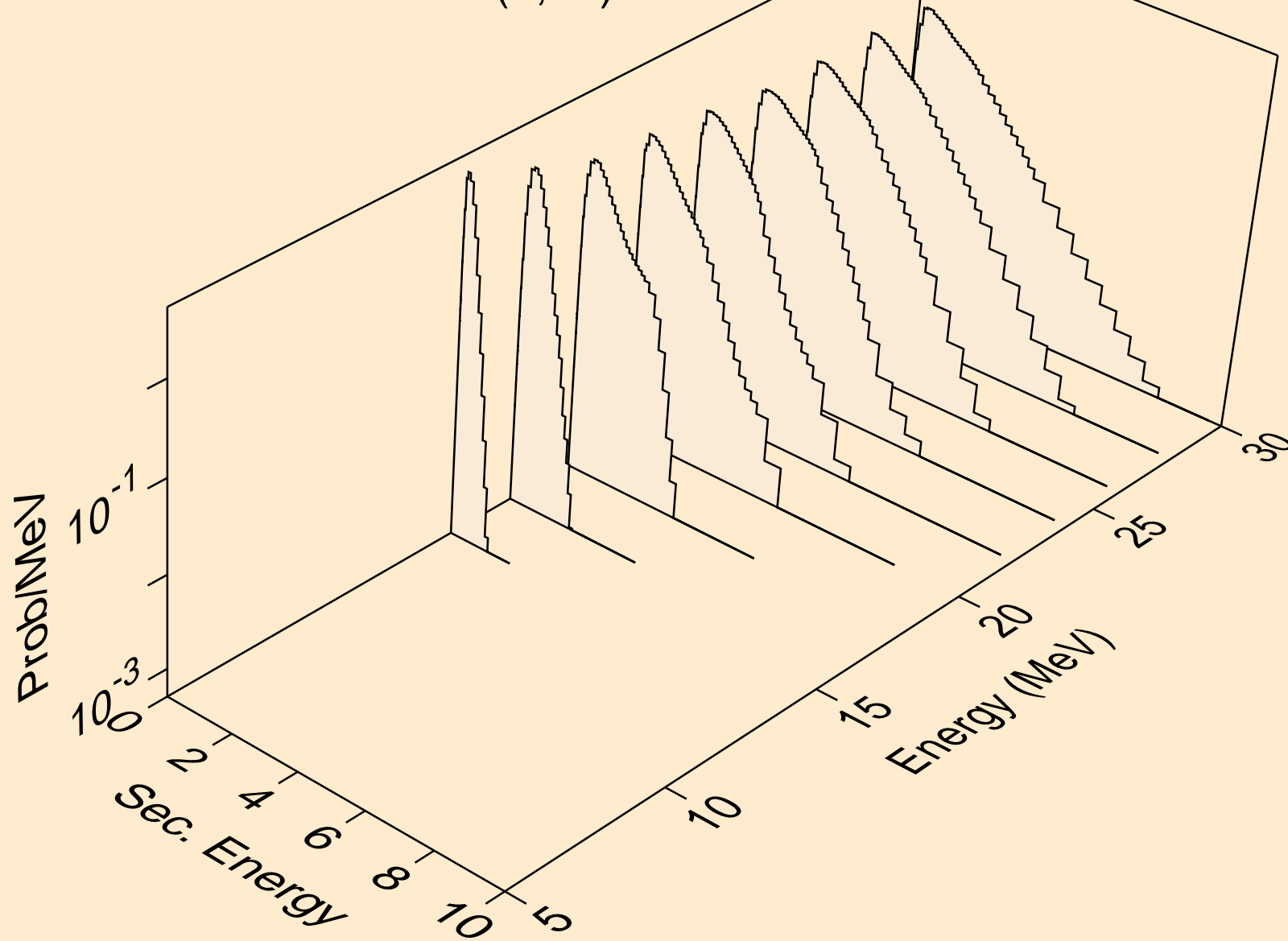


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

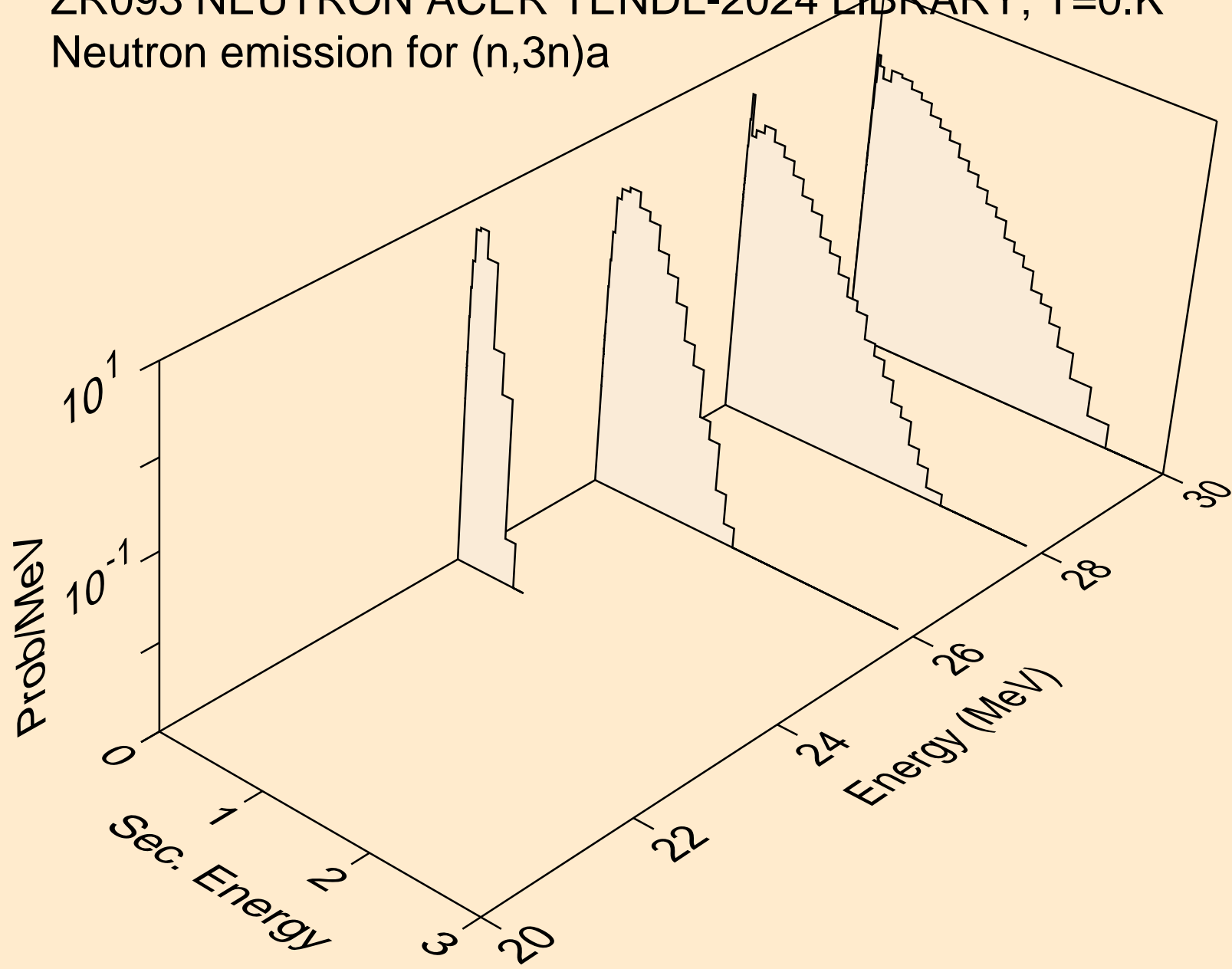




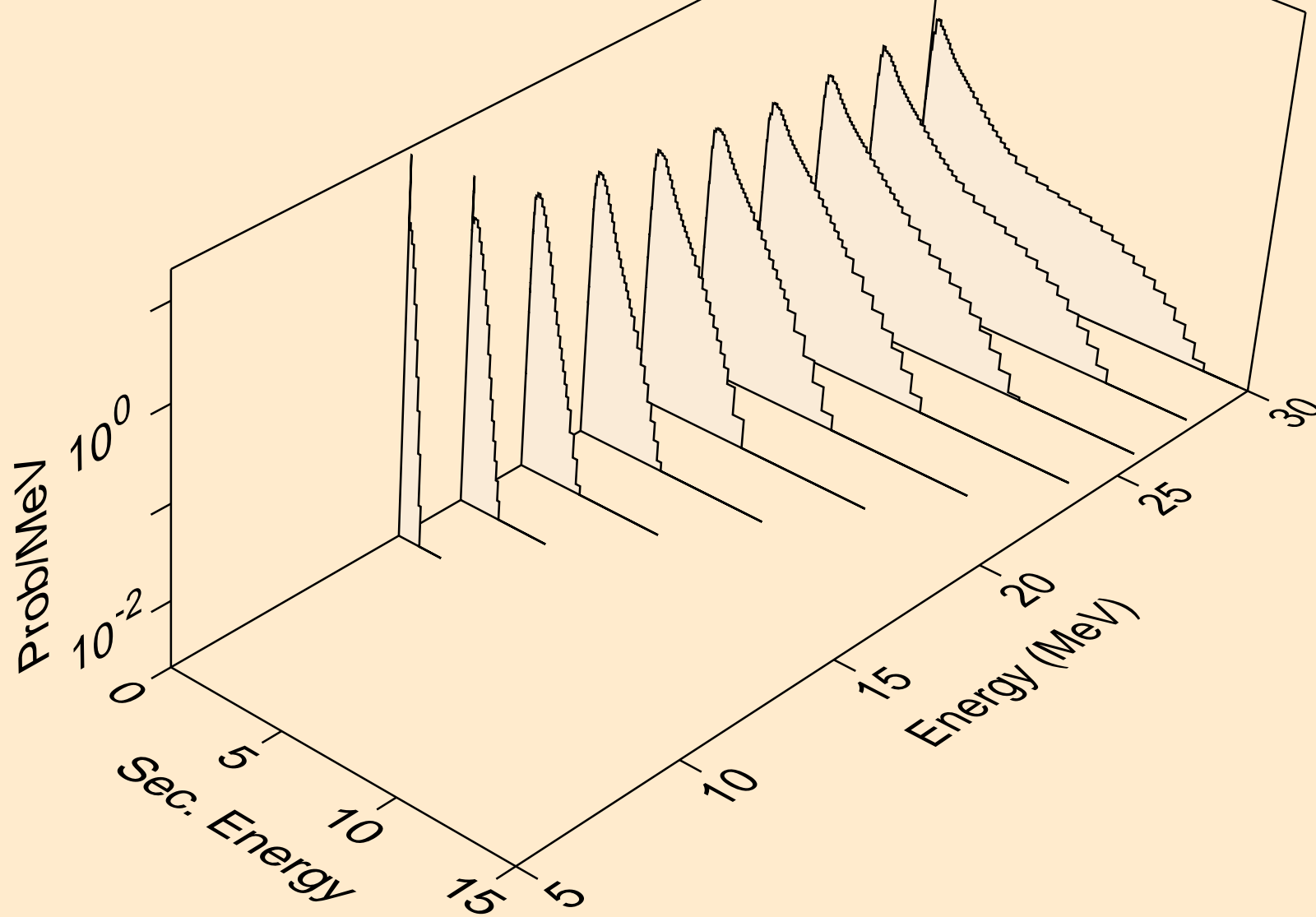
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



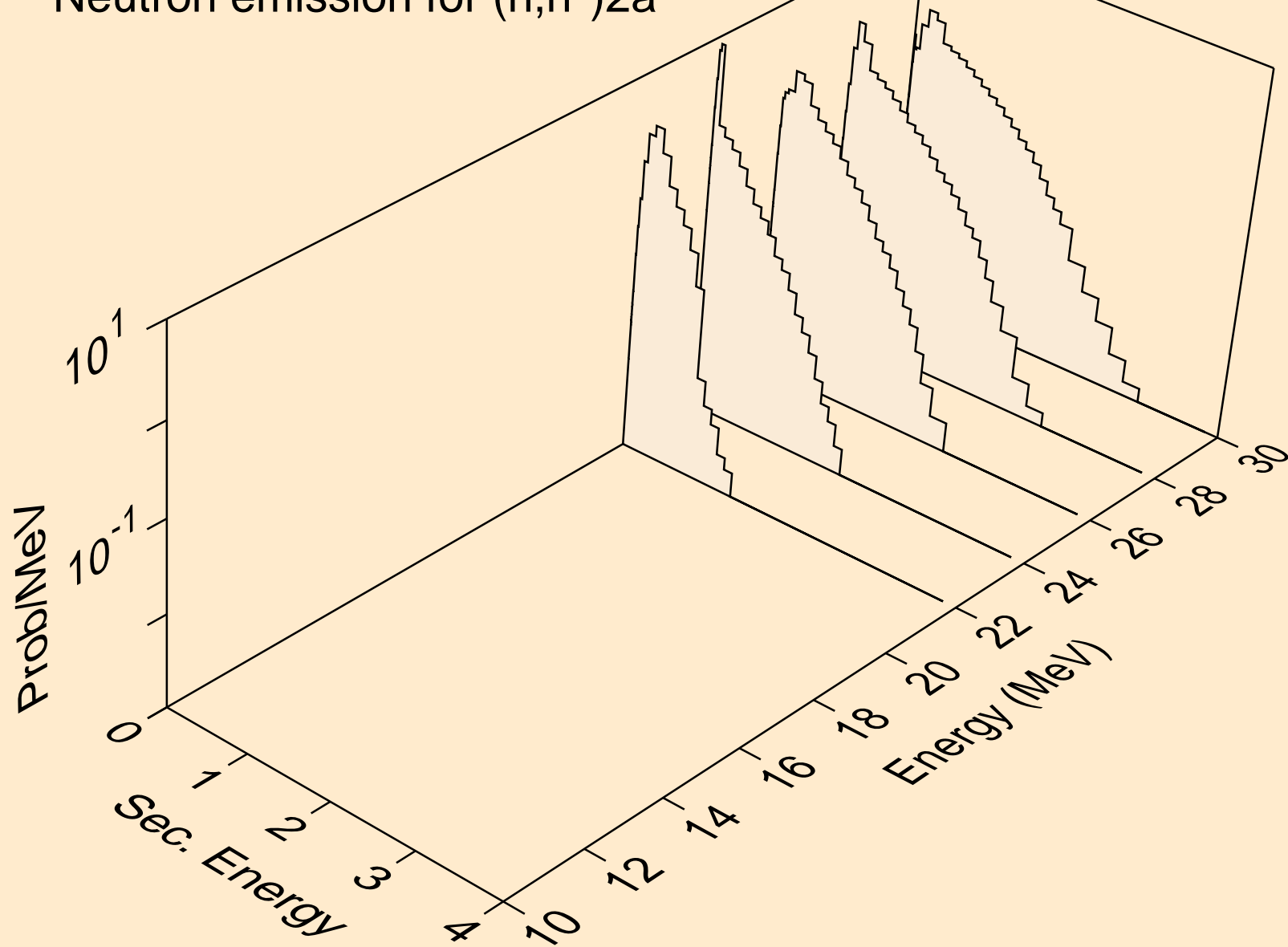
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



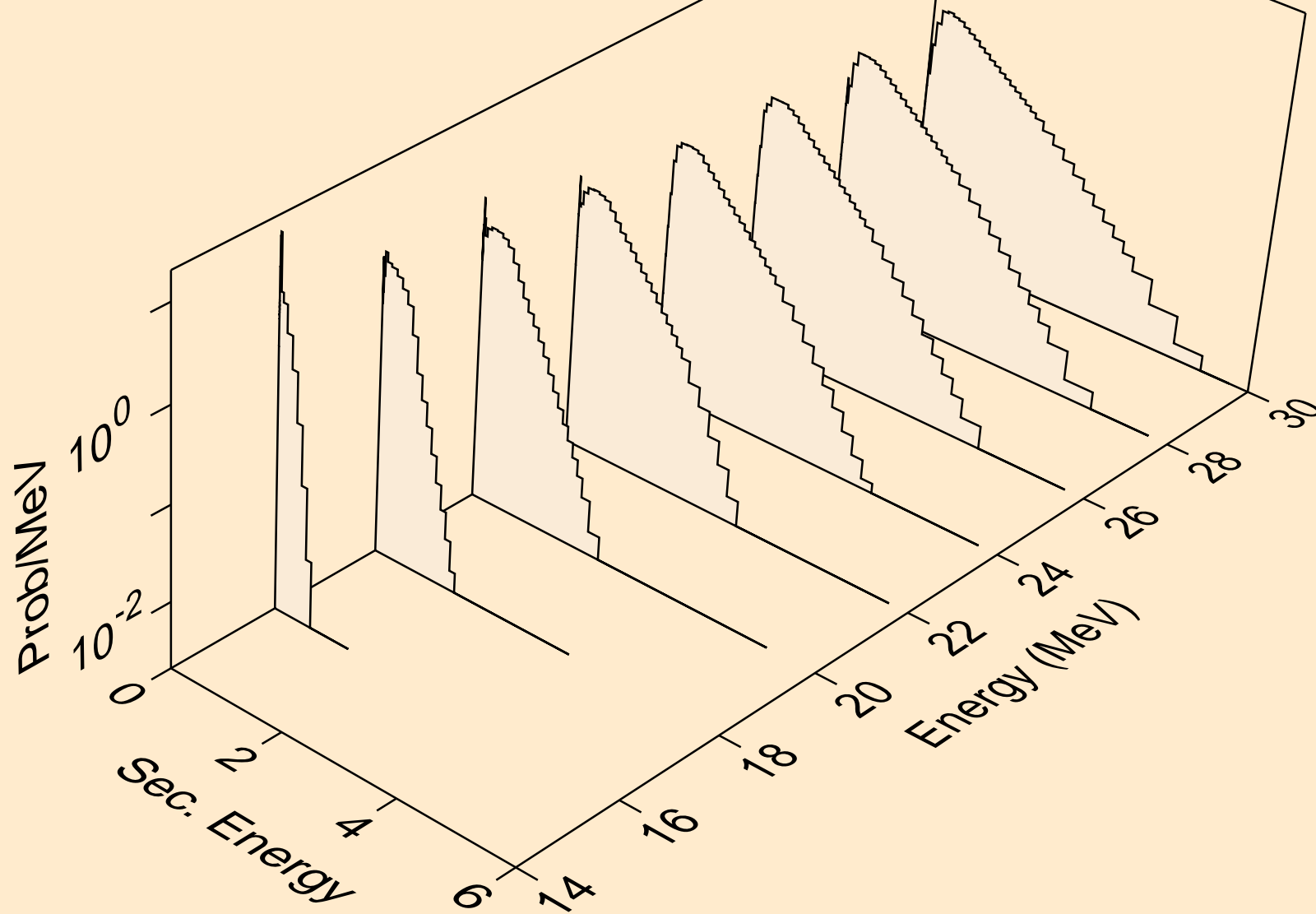
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



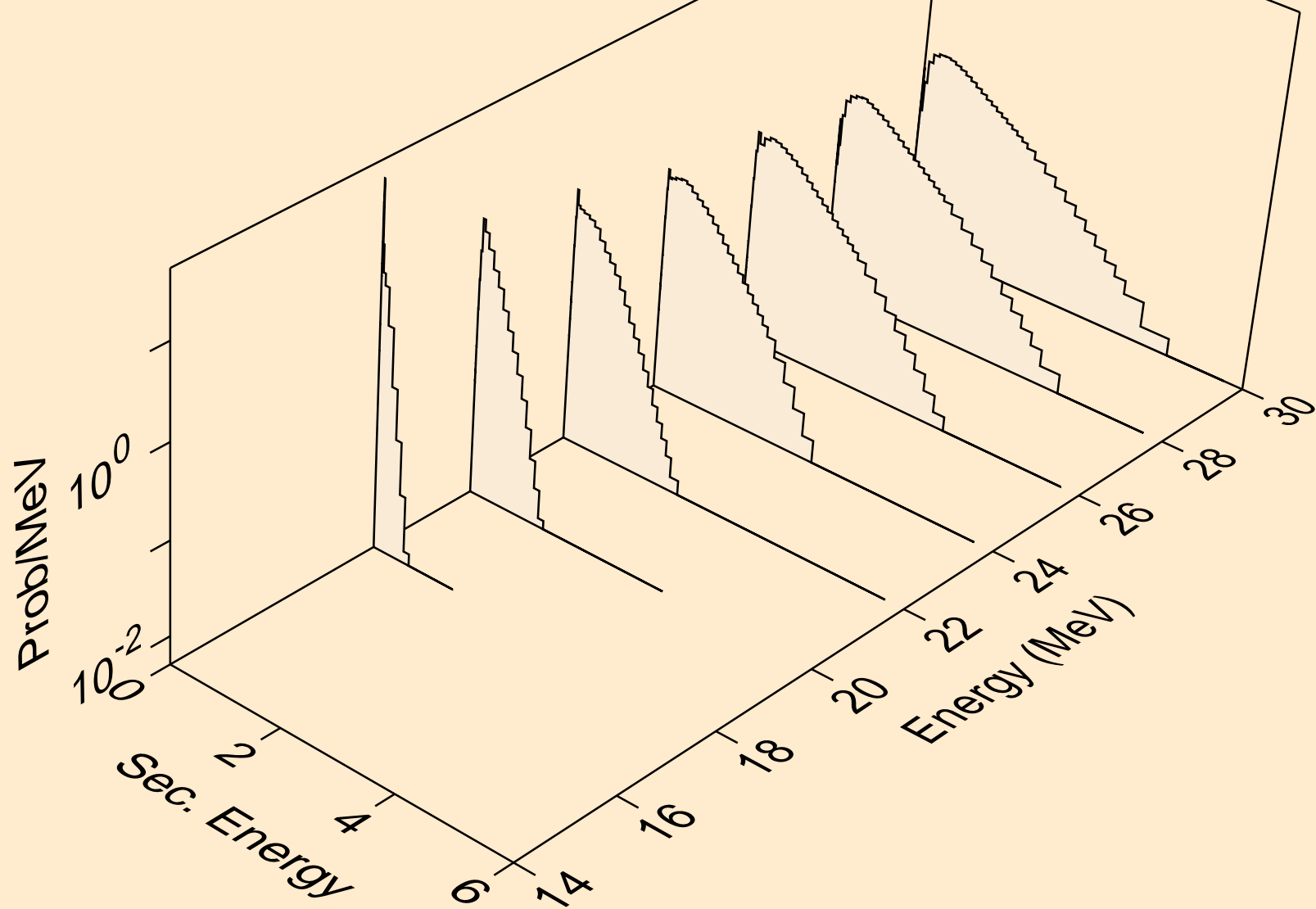
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



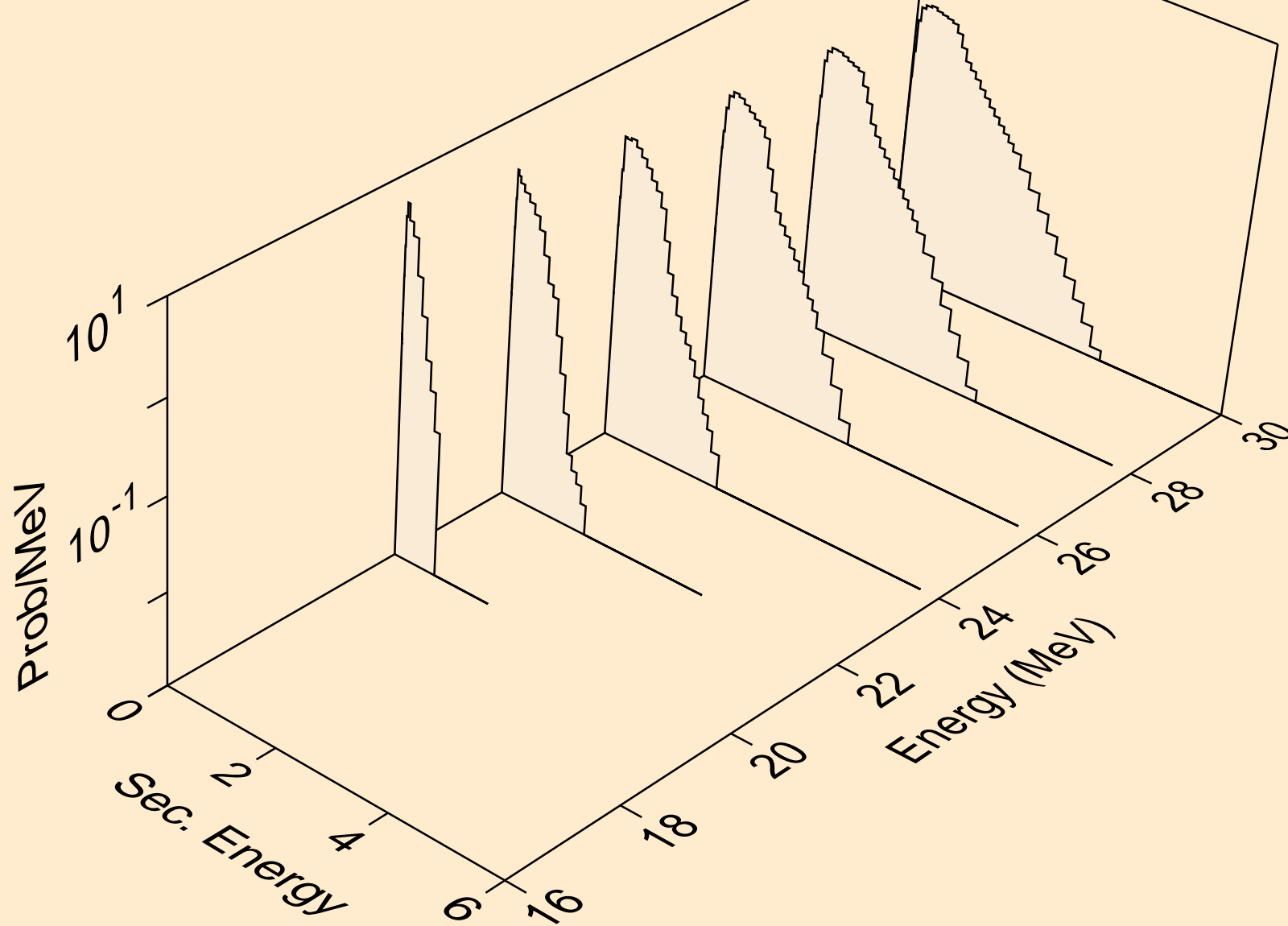
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



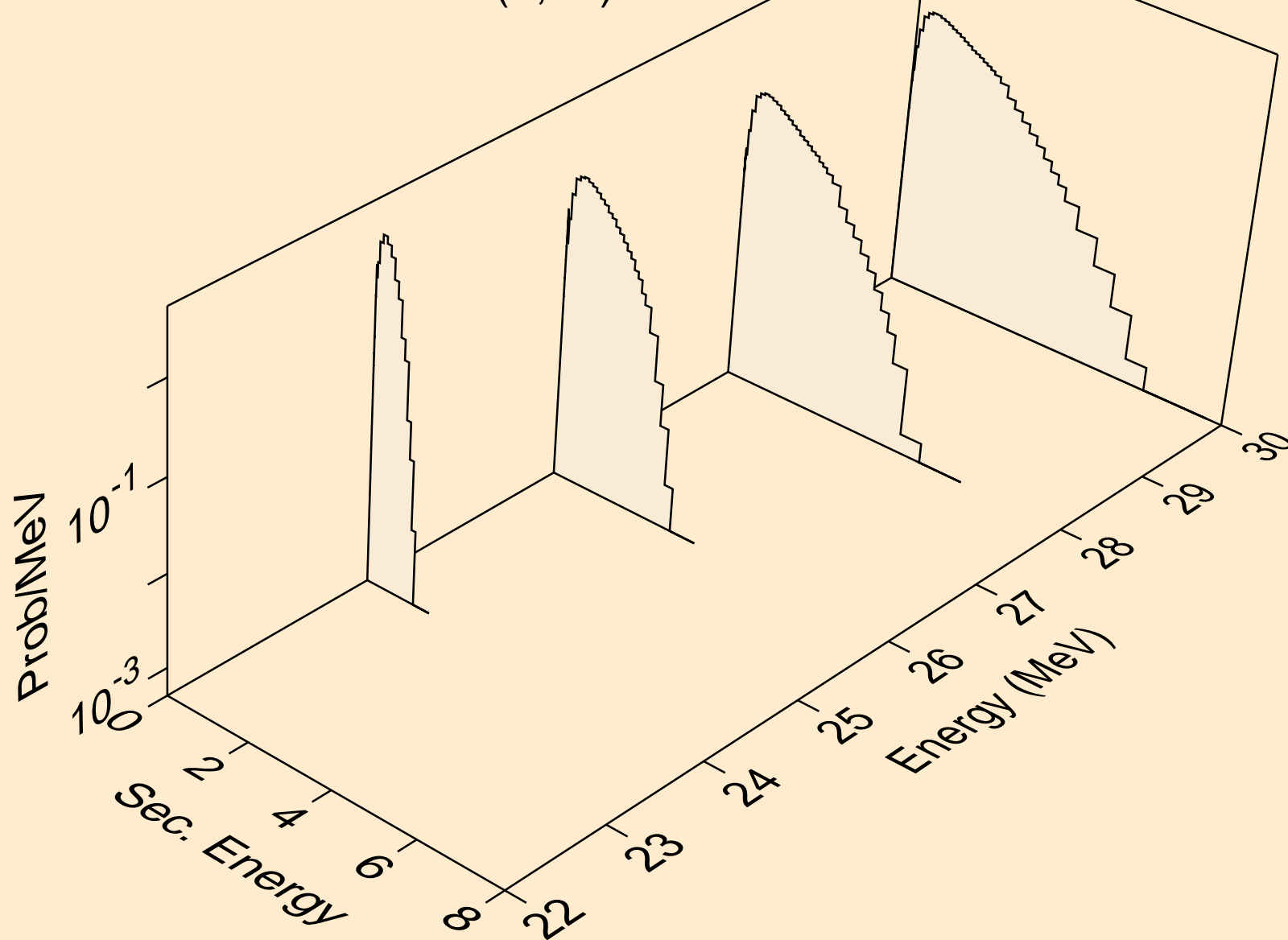
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3

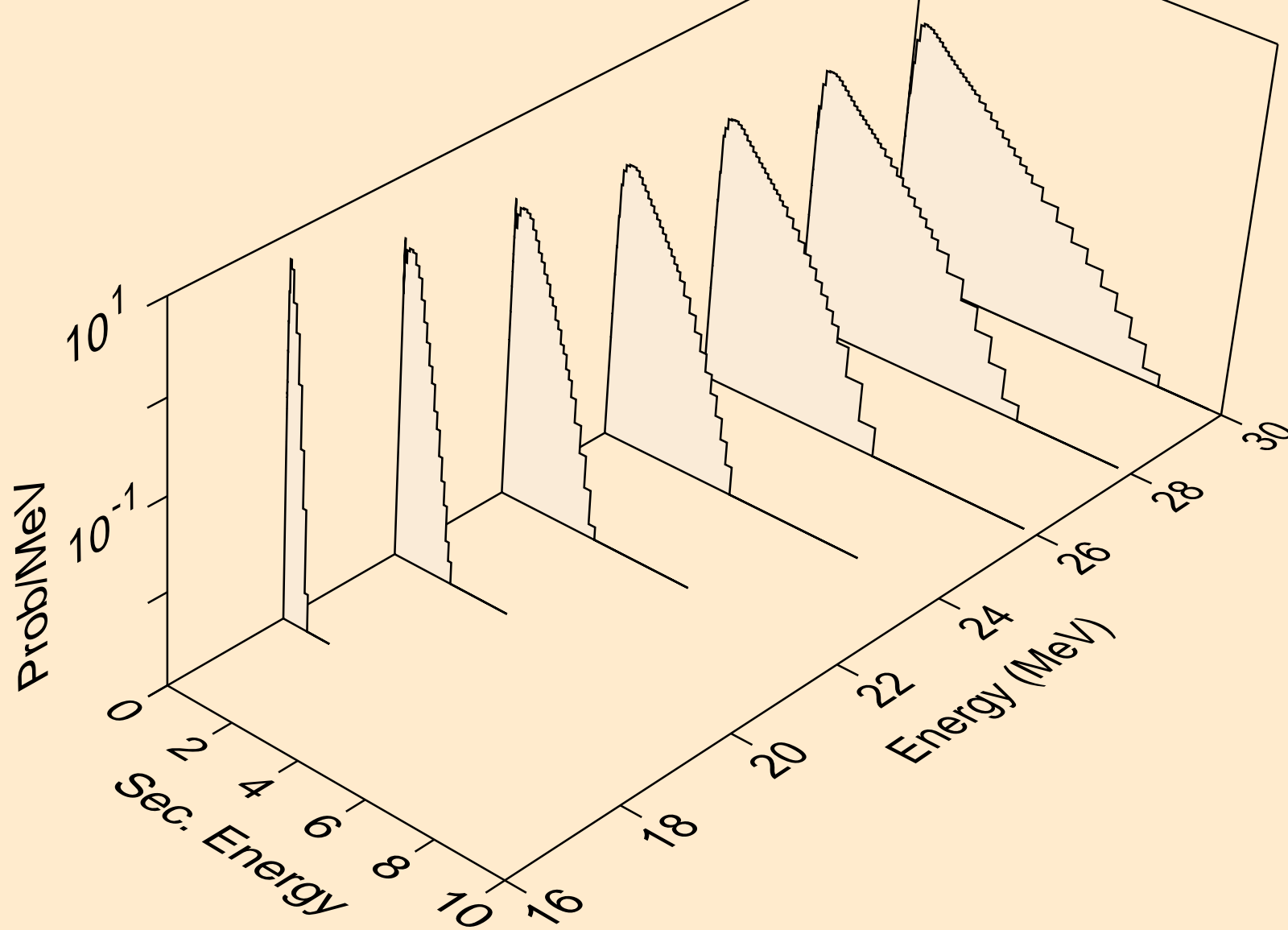


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)

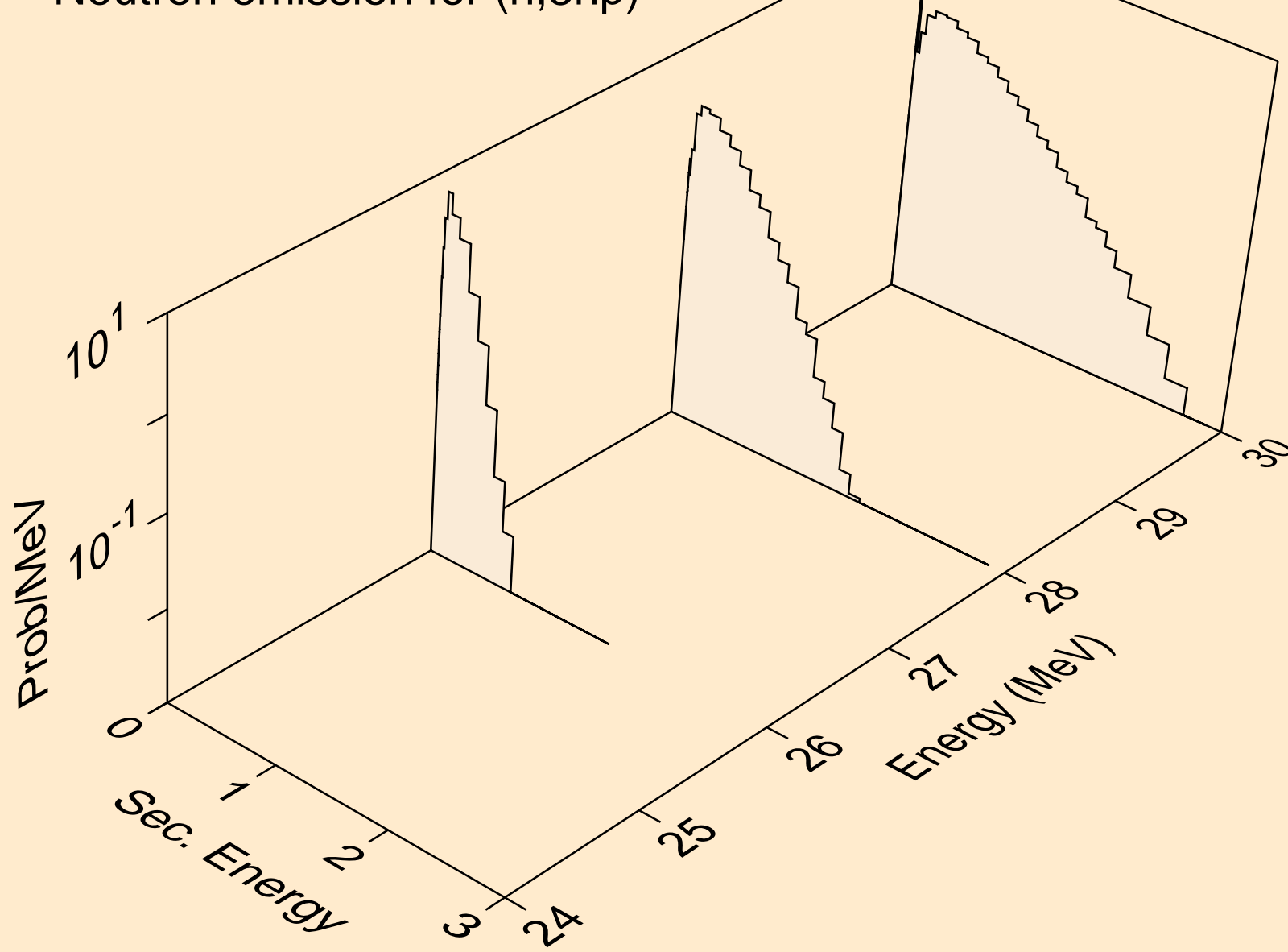




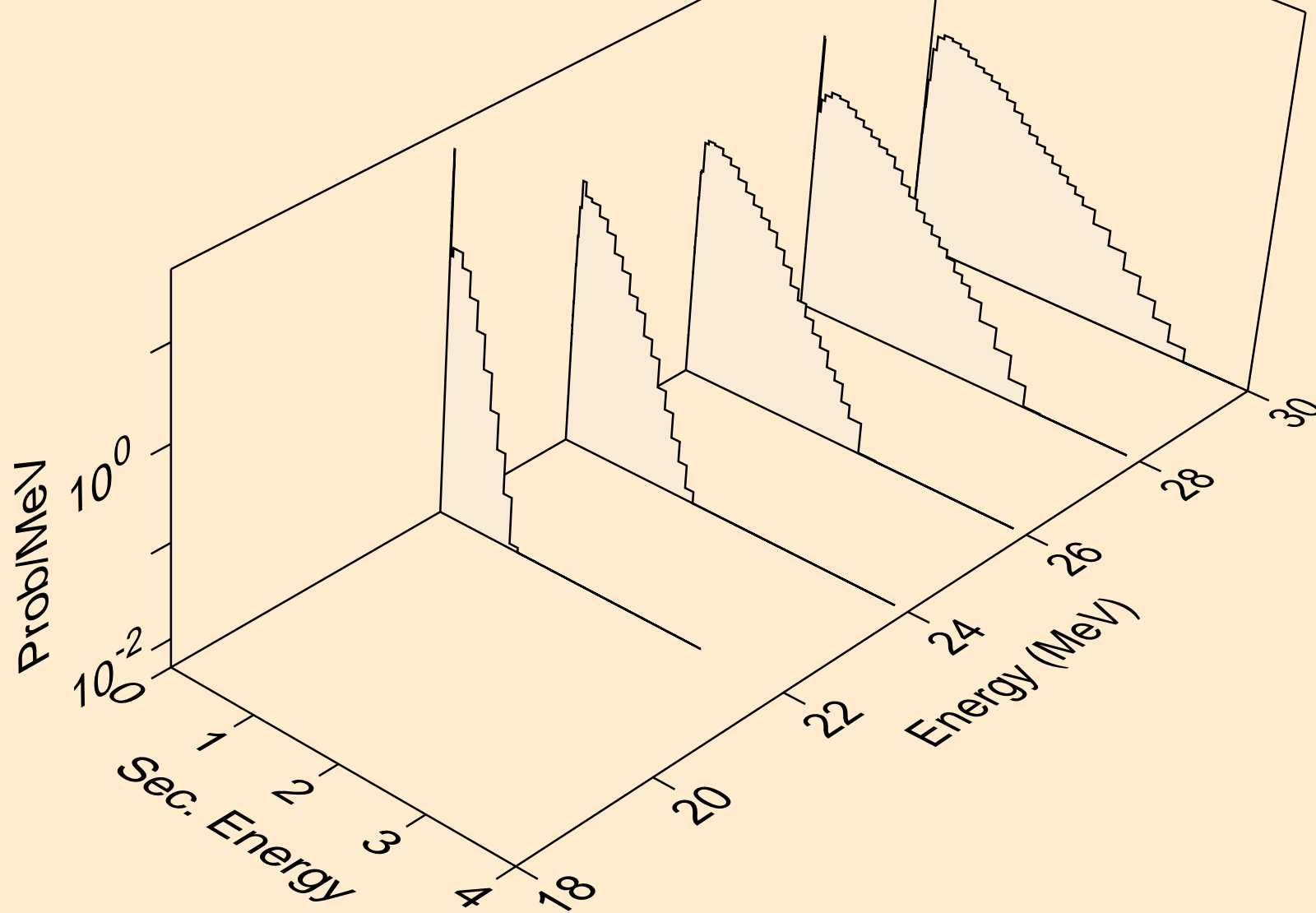
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



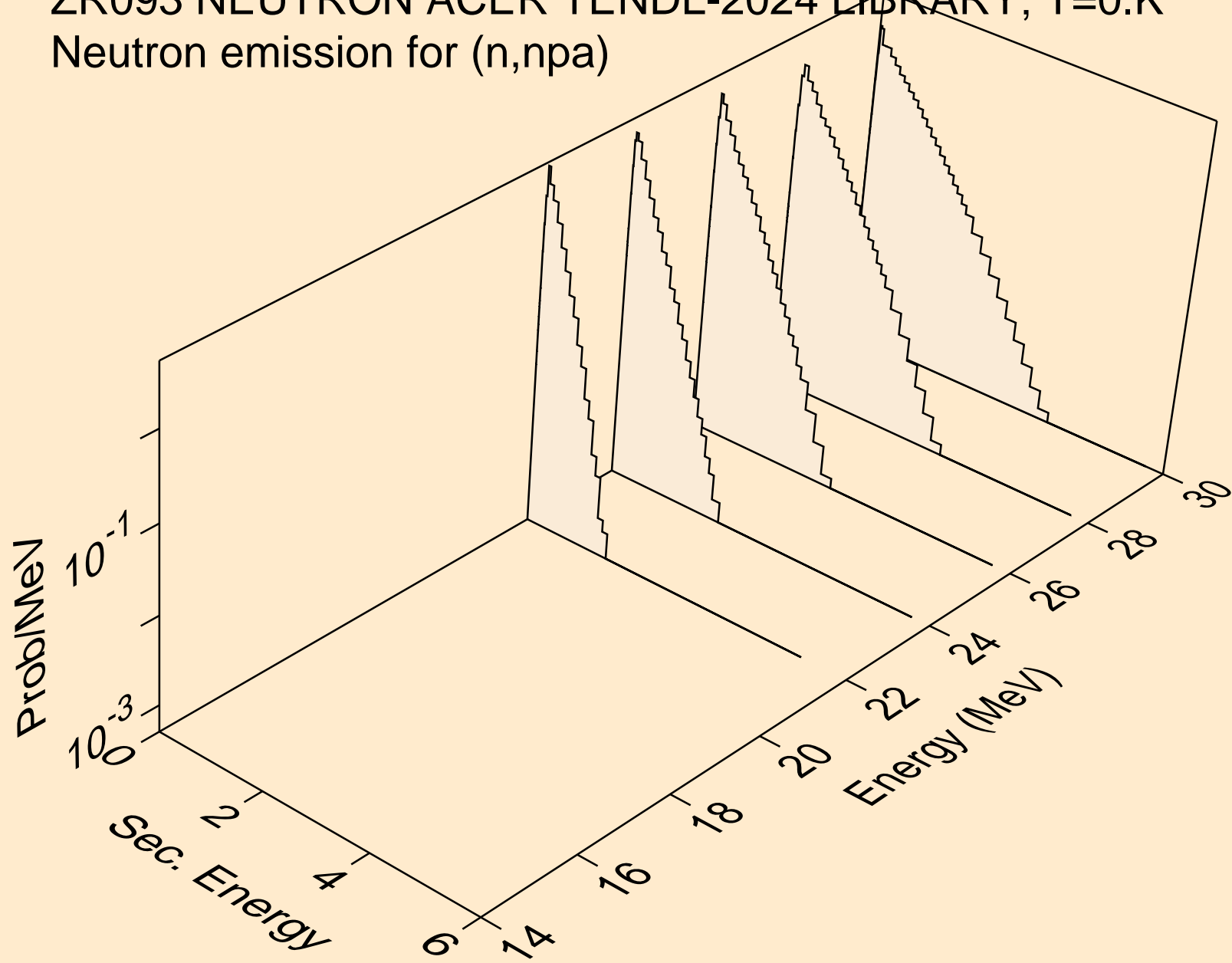
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)



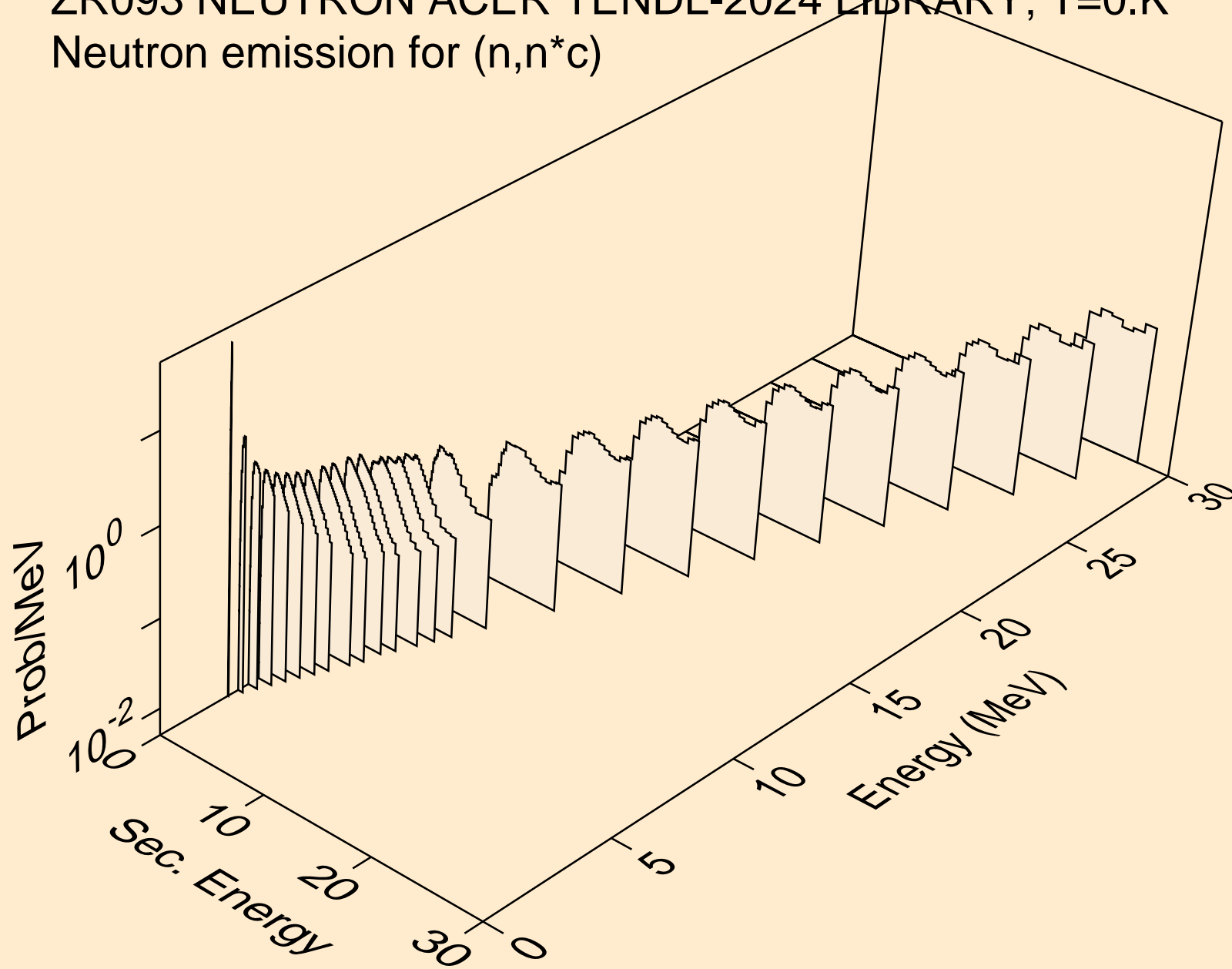
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



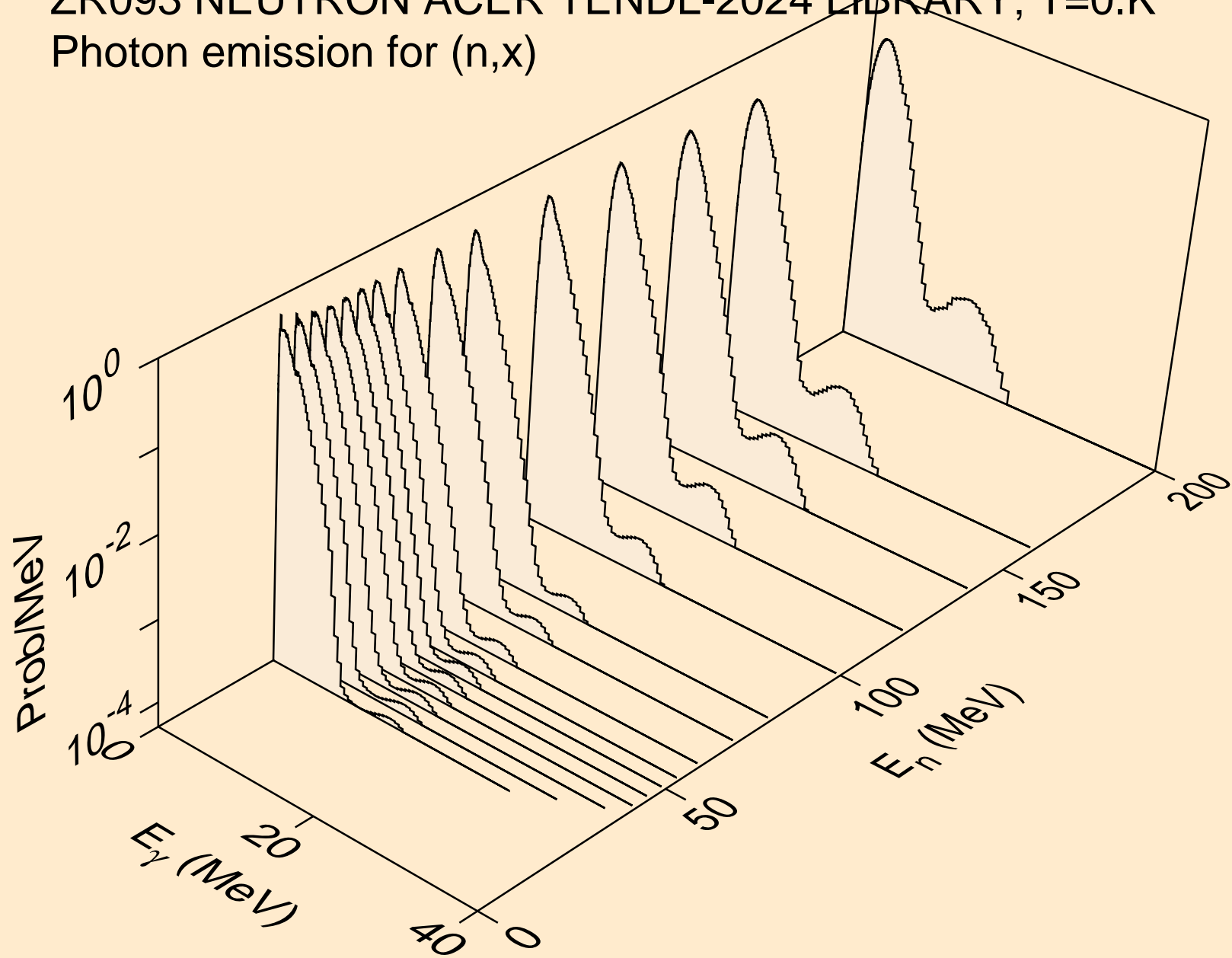
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



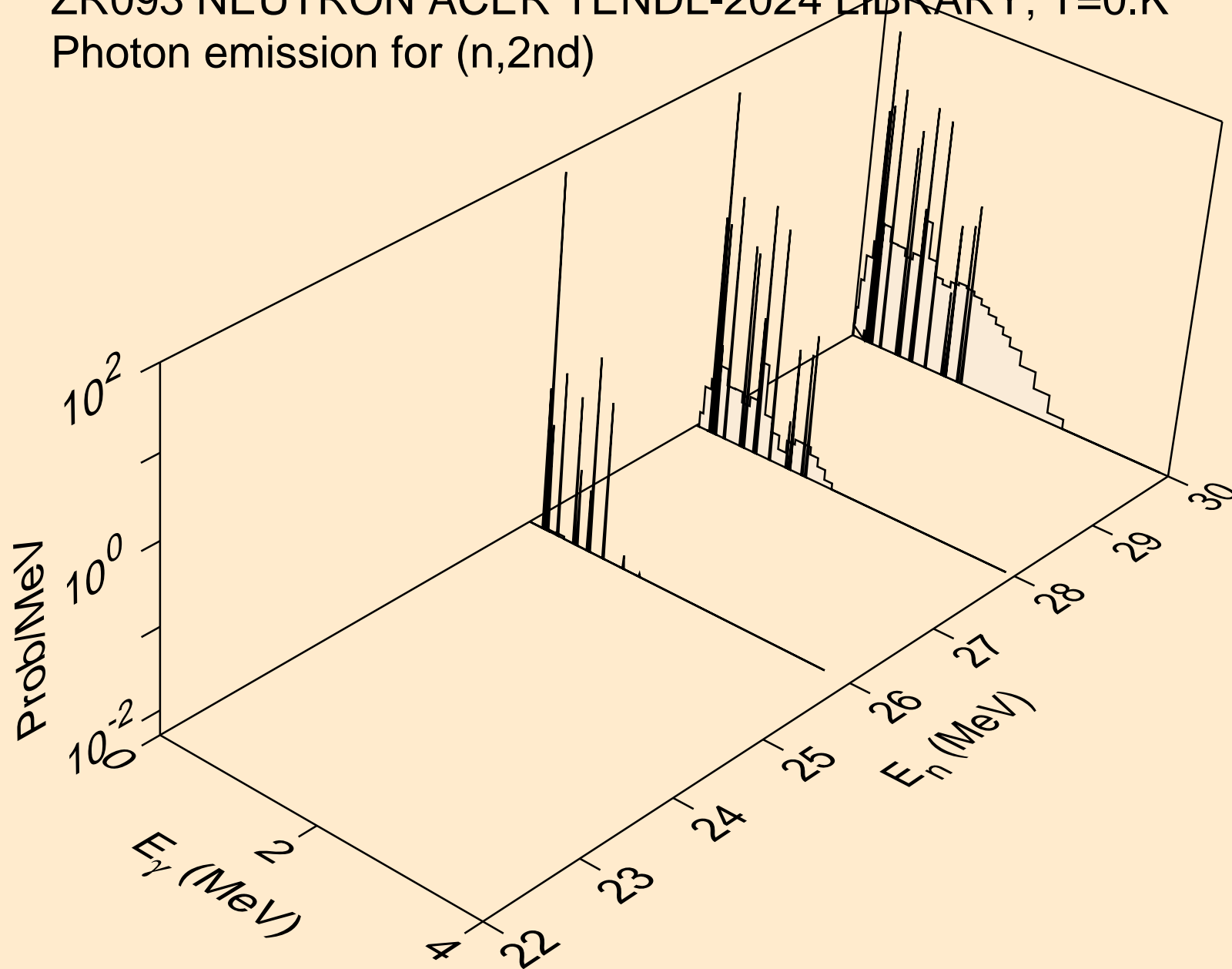
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



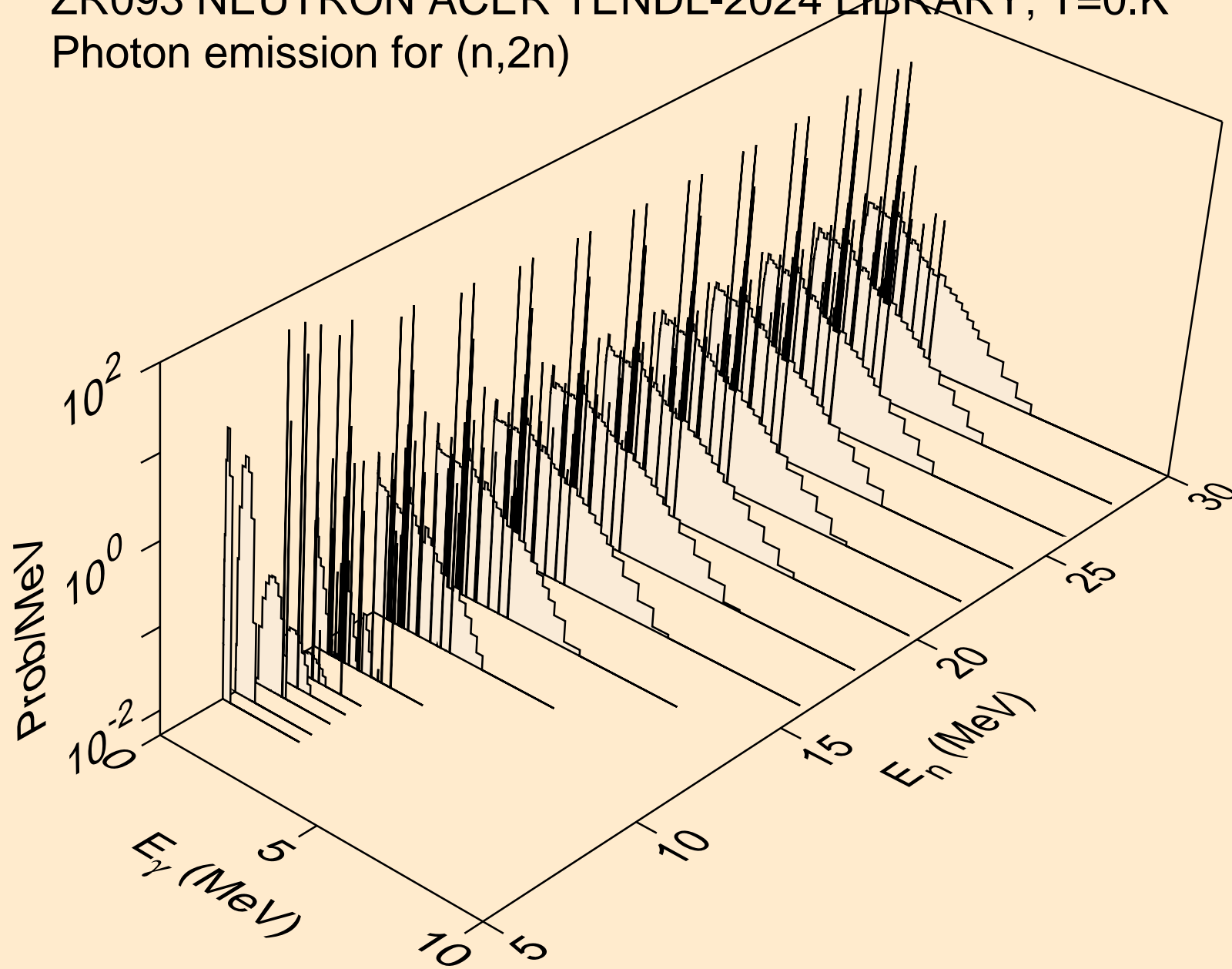
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)

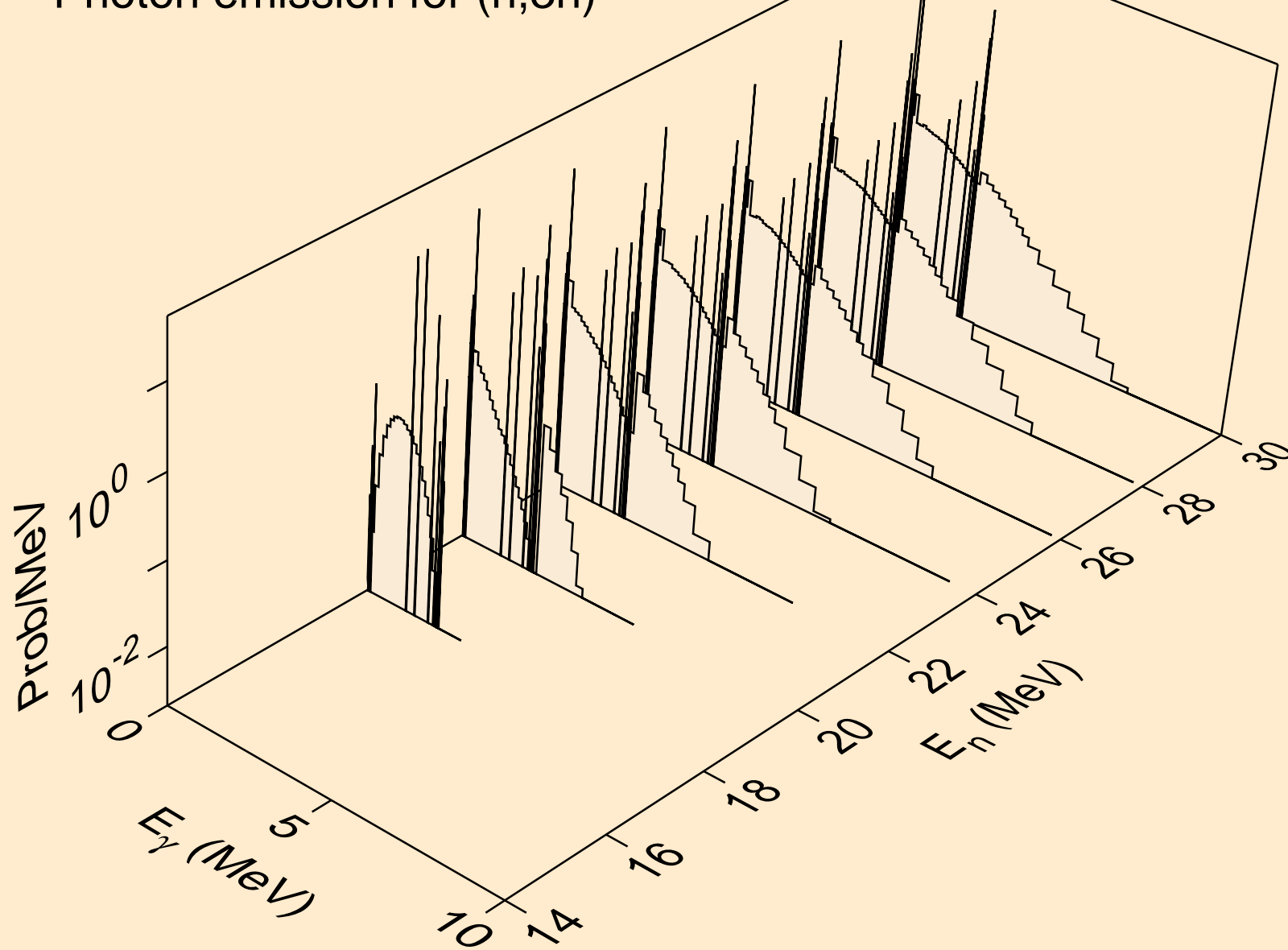


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)

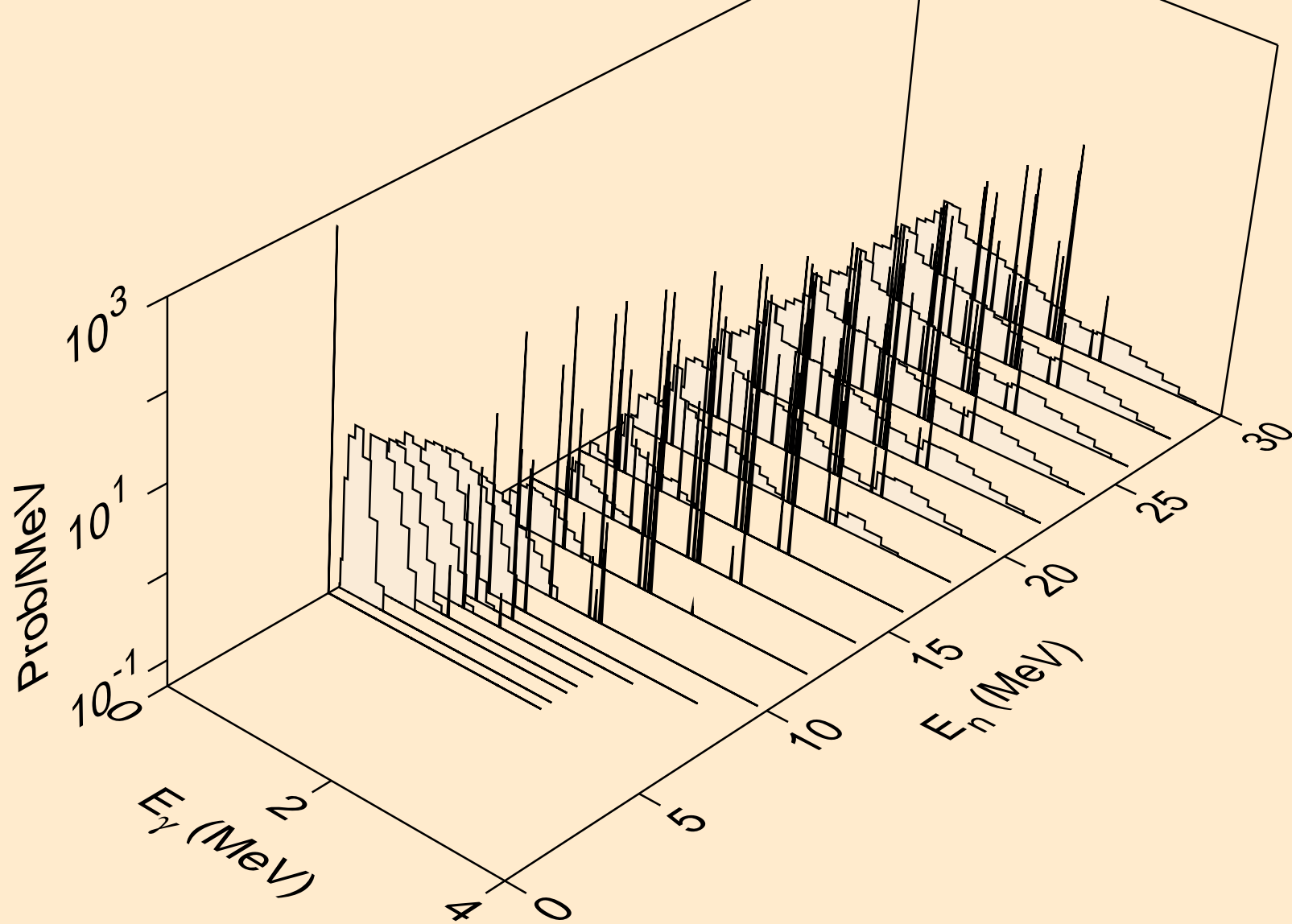




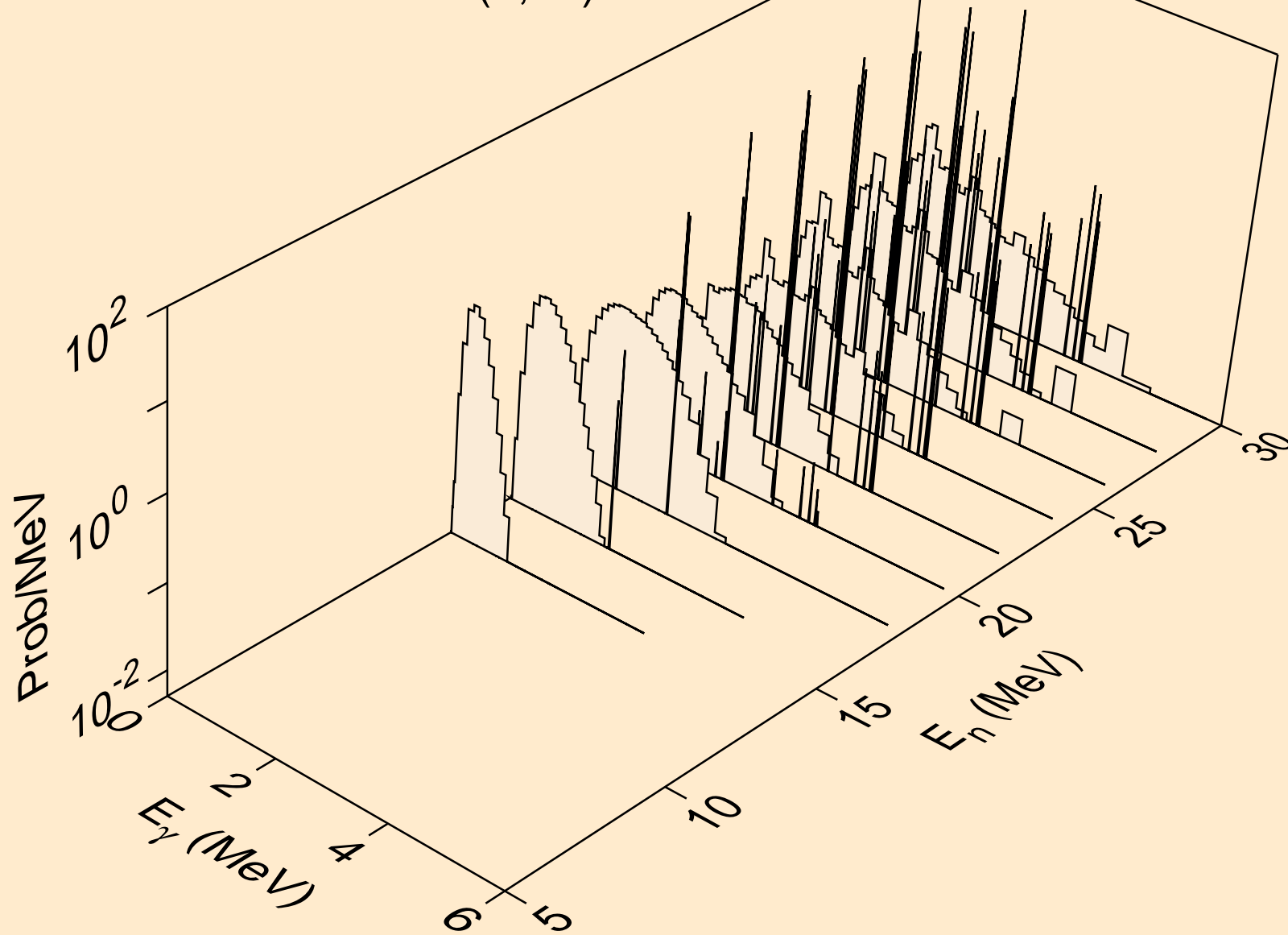
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Photon emission for (n,3n)



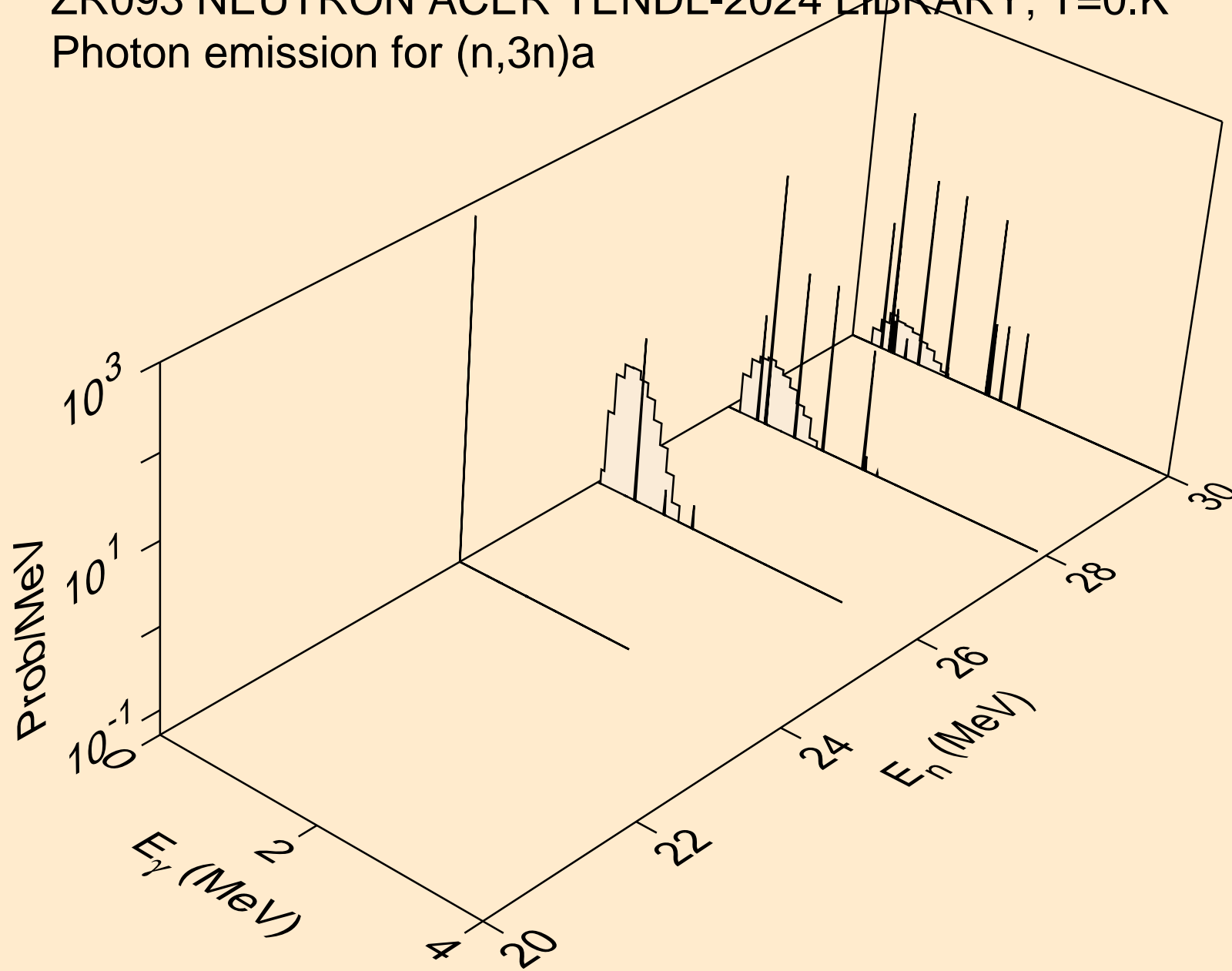
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Photon emission for (n,n\*)a



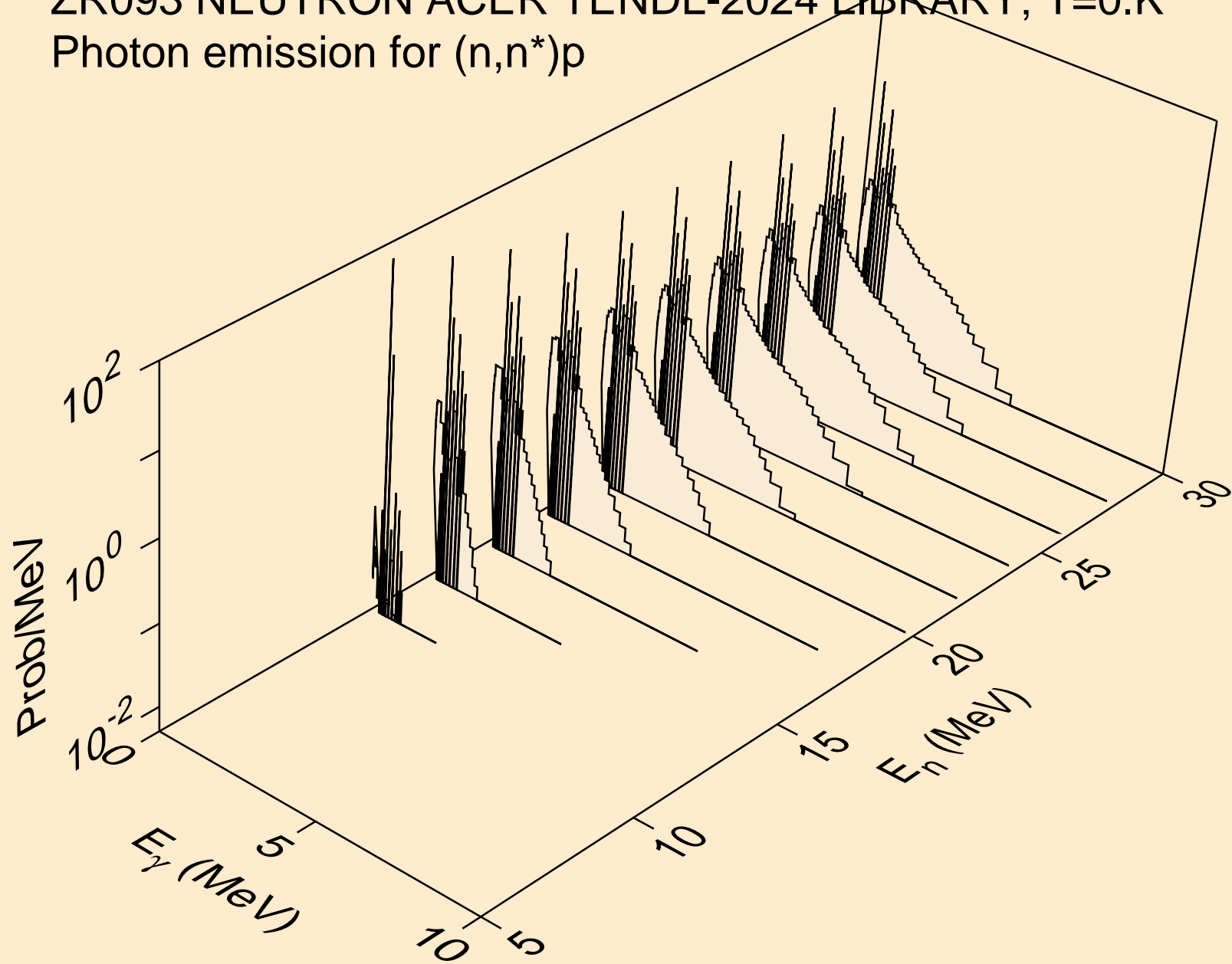
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Photon emission for (n,2n)a



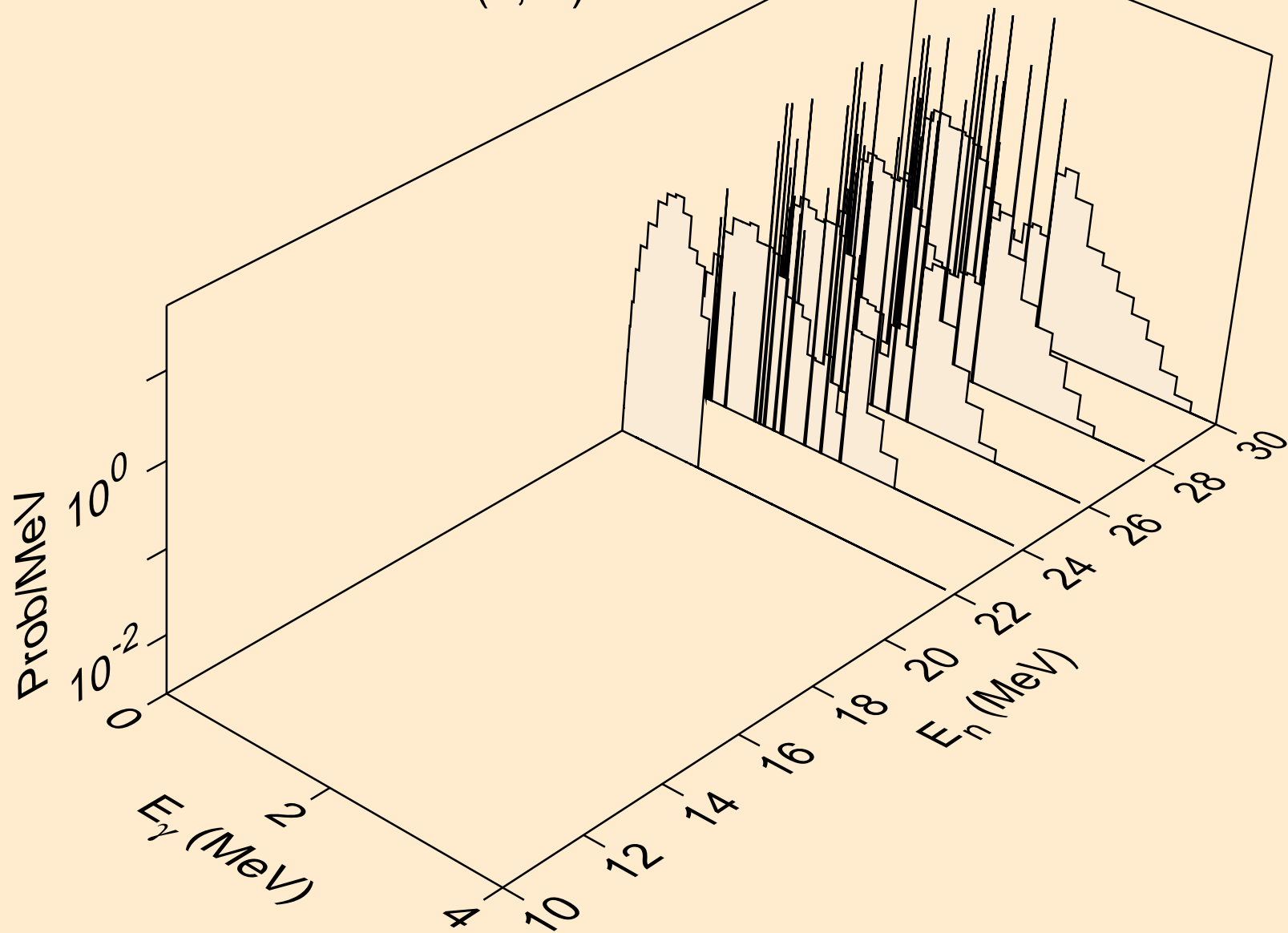
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Photon emission for (n,3n)a



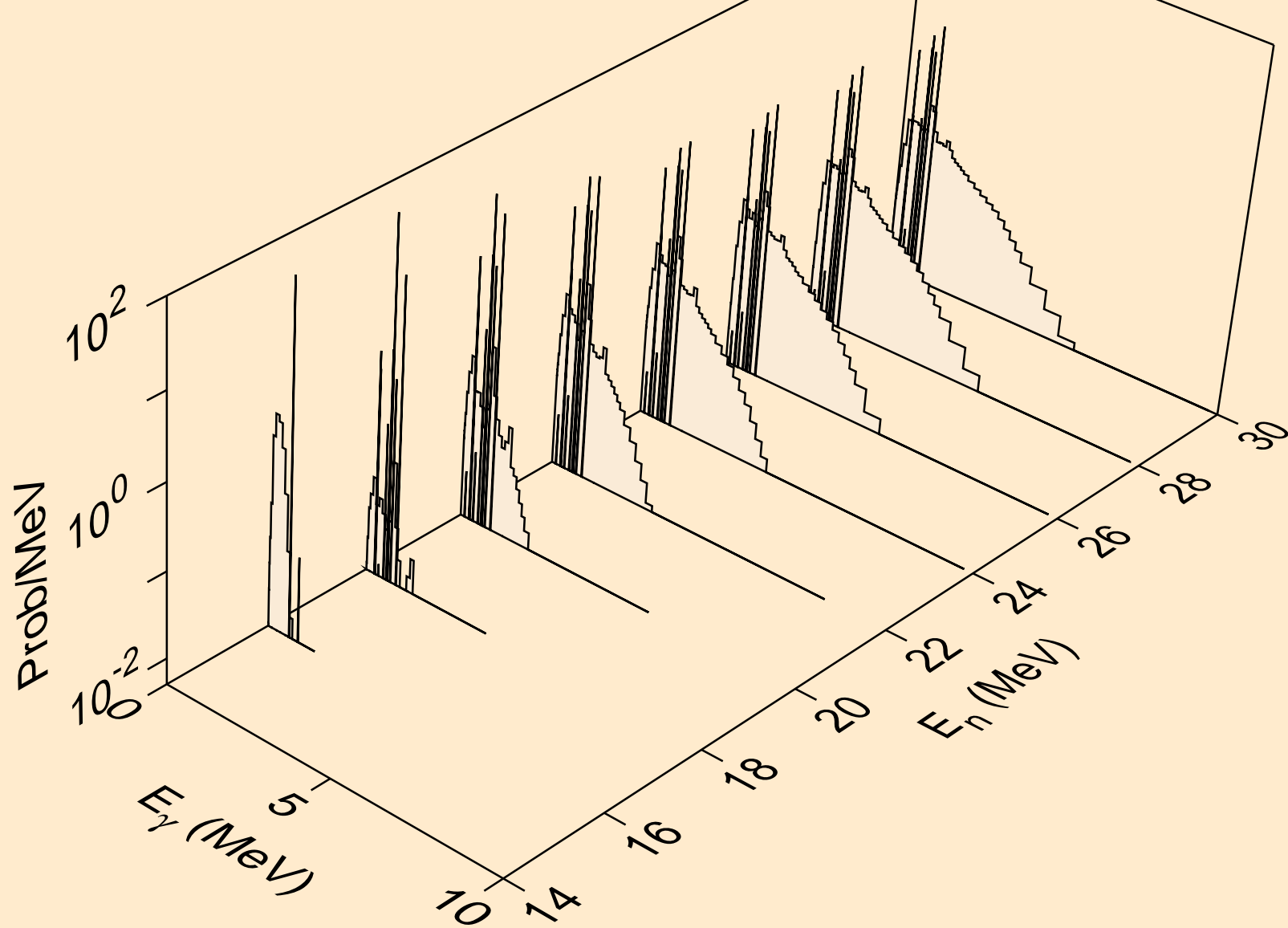
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



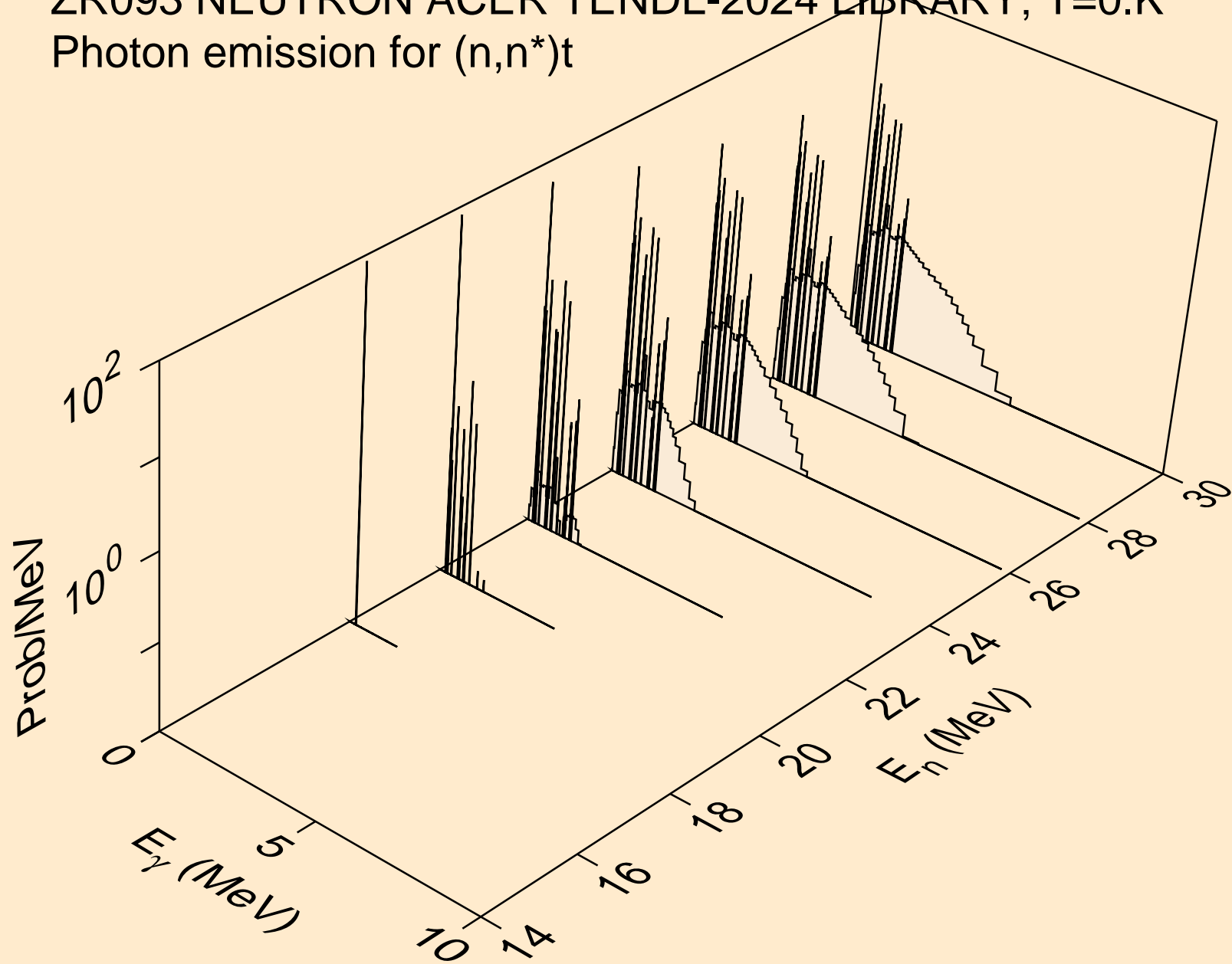
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

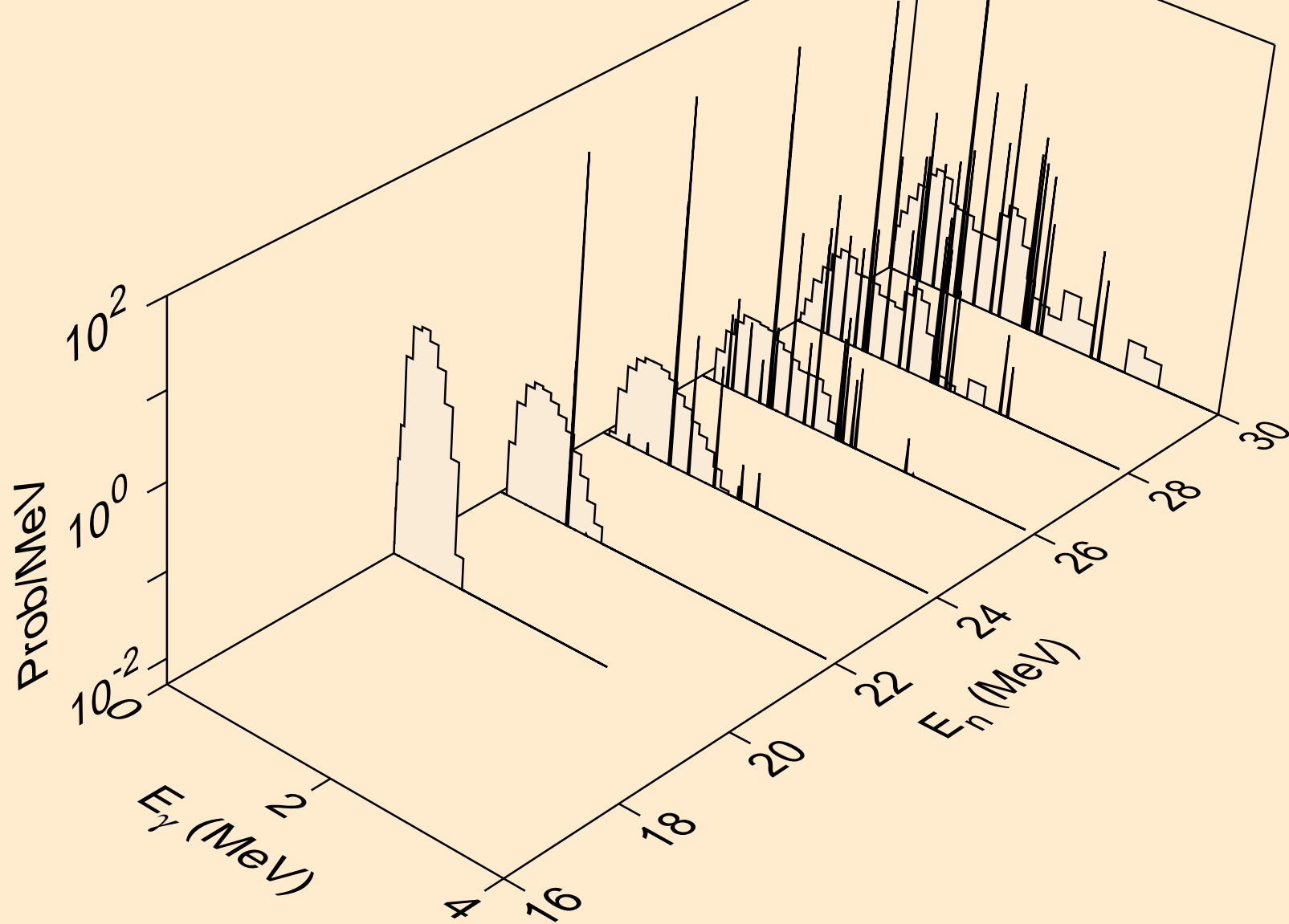


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

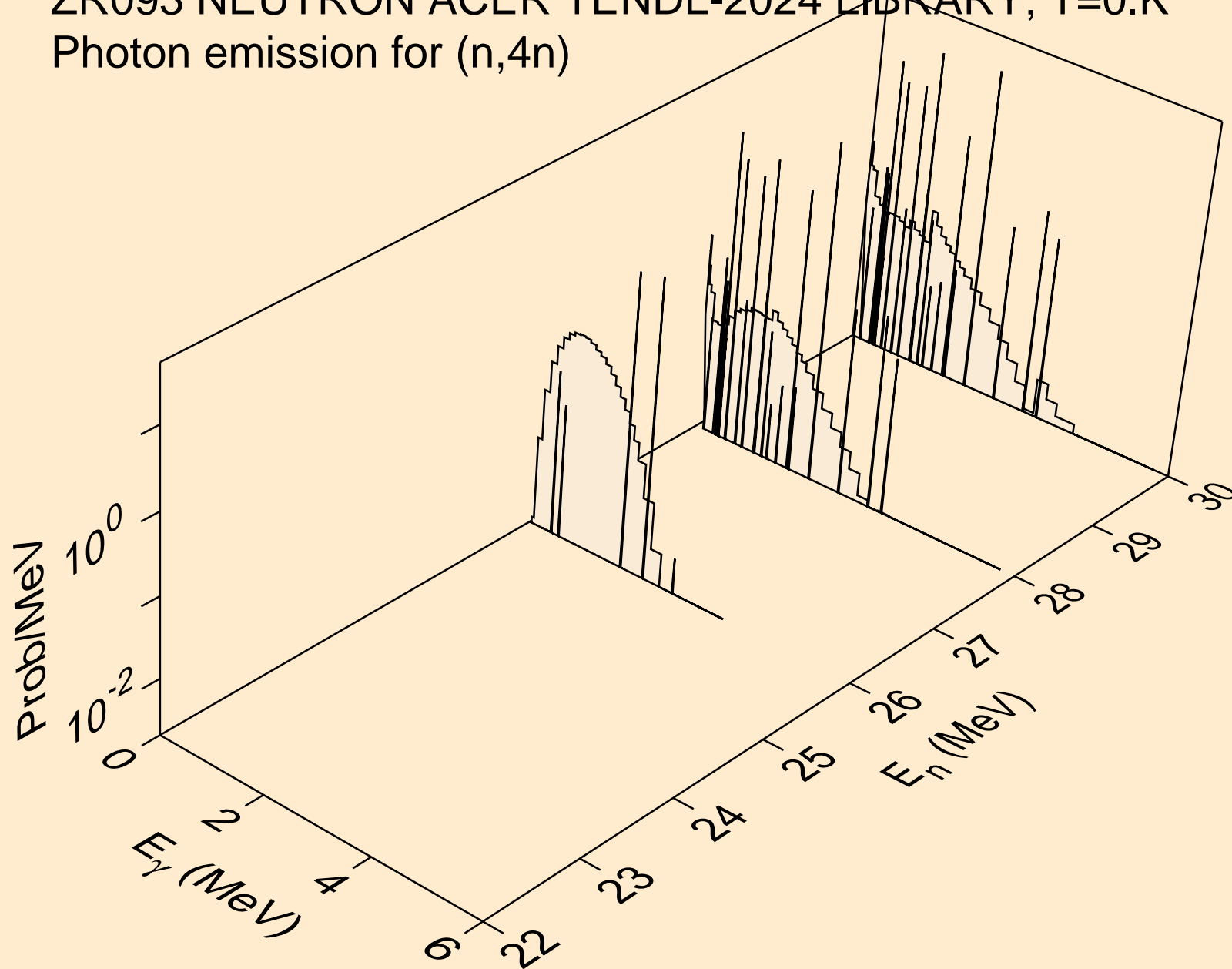




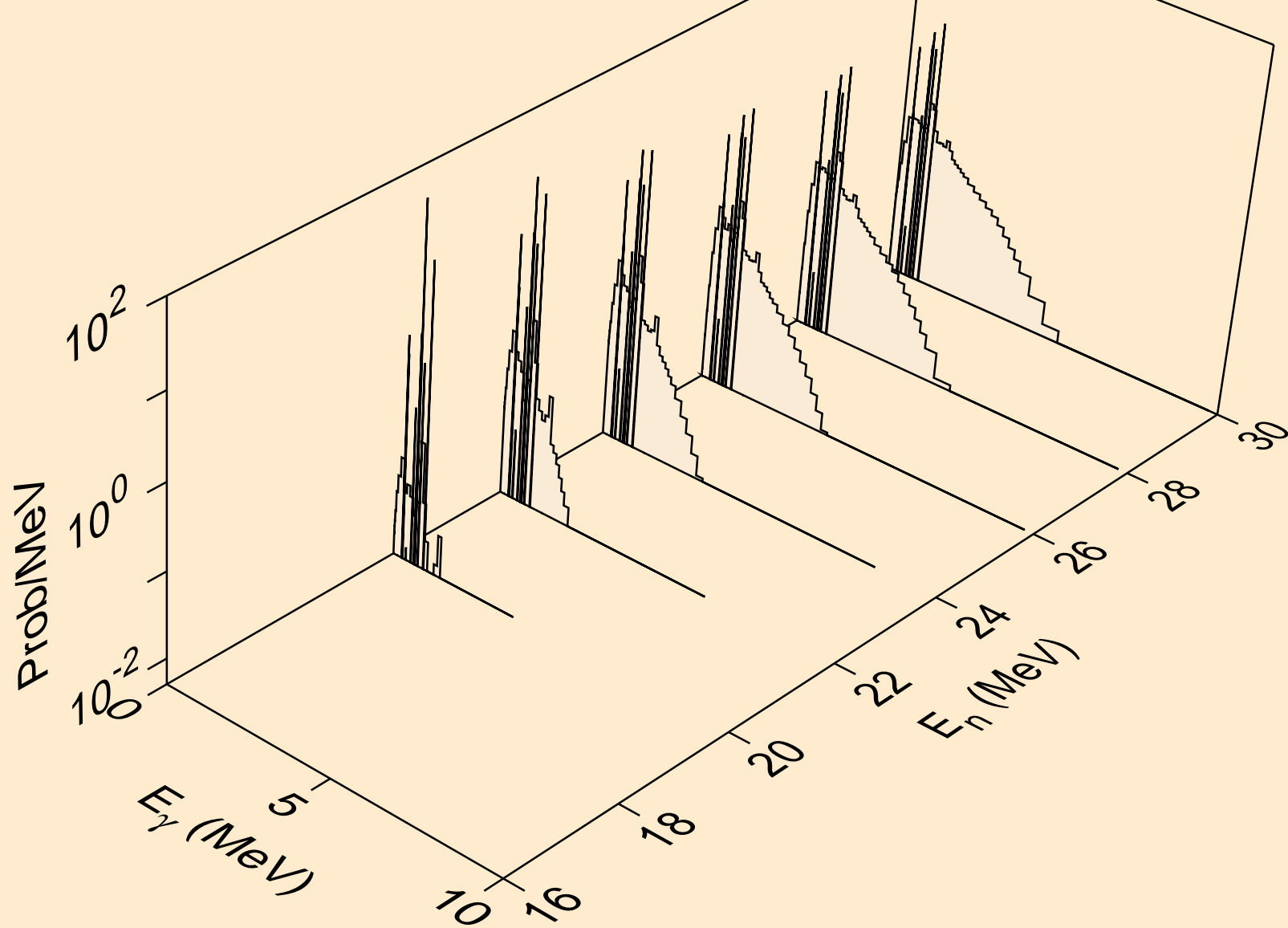
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



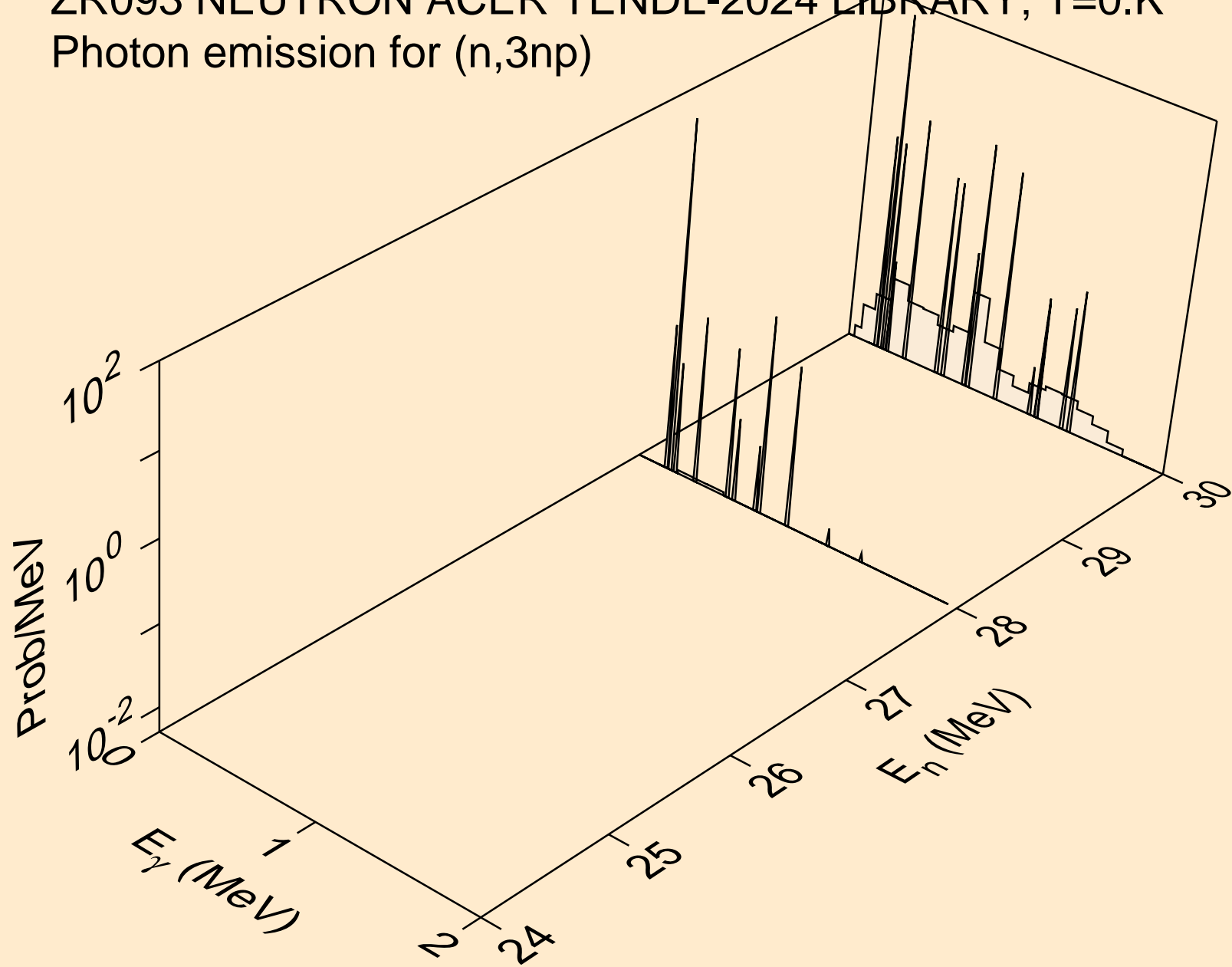
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



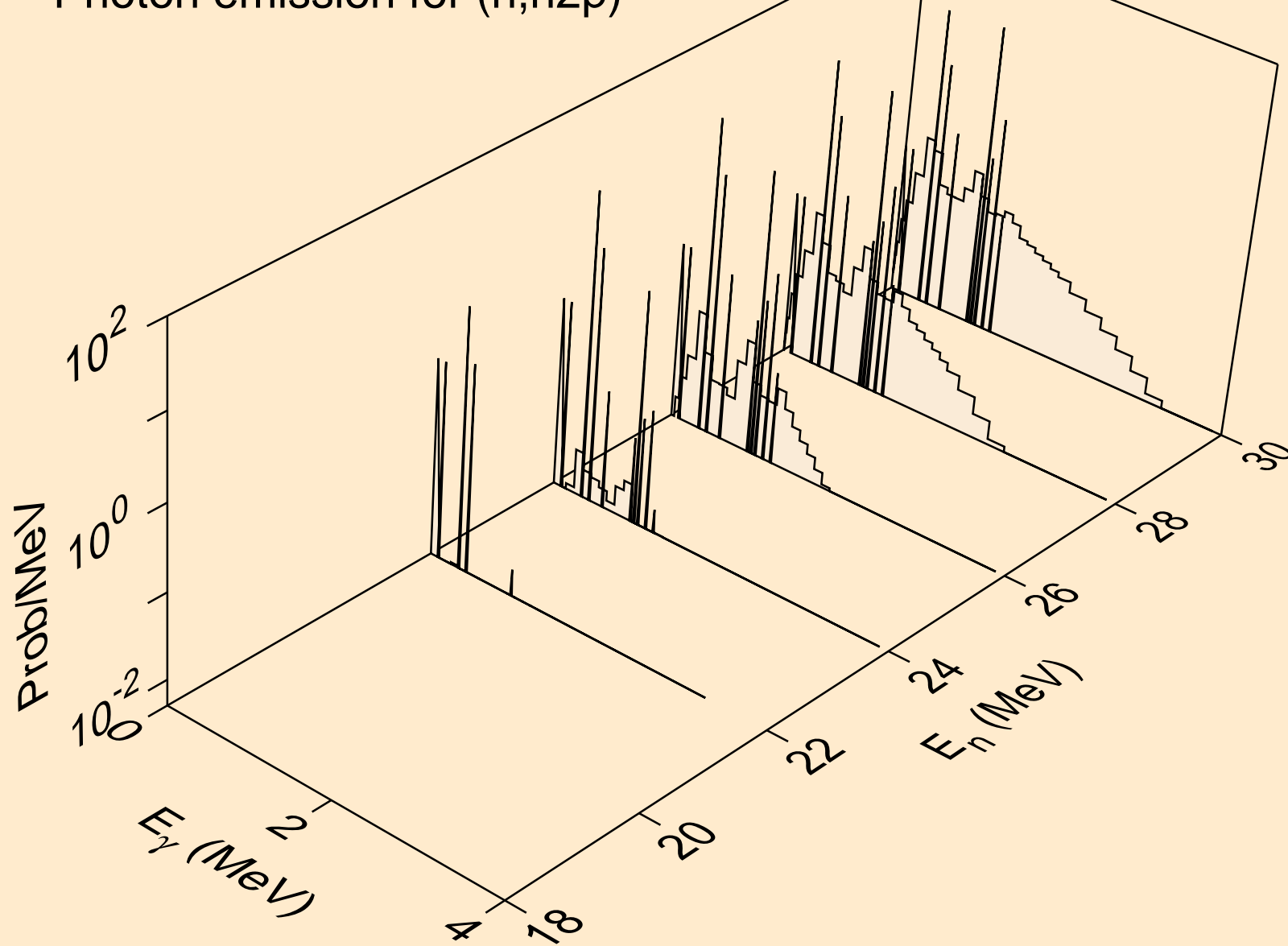
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Photon emission for (n,2np)



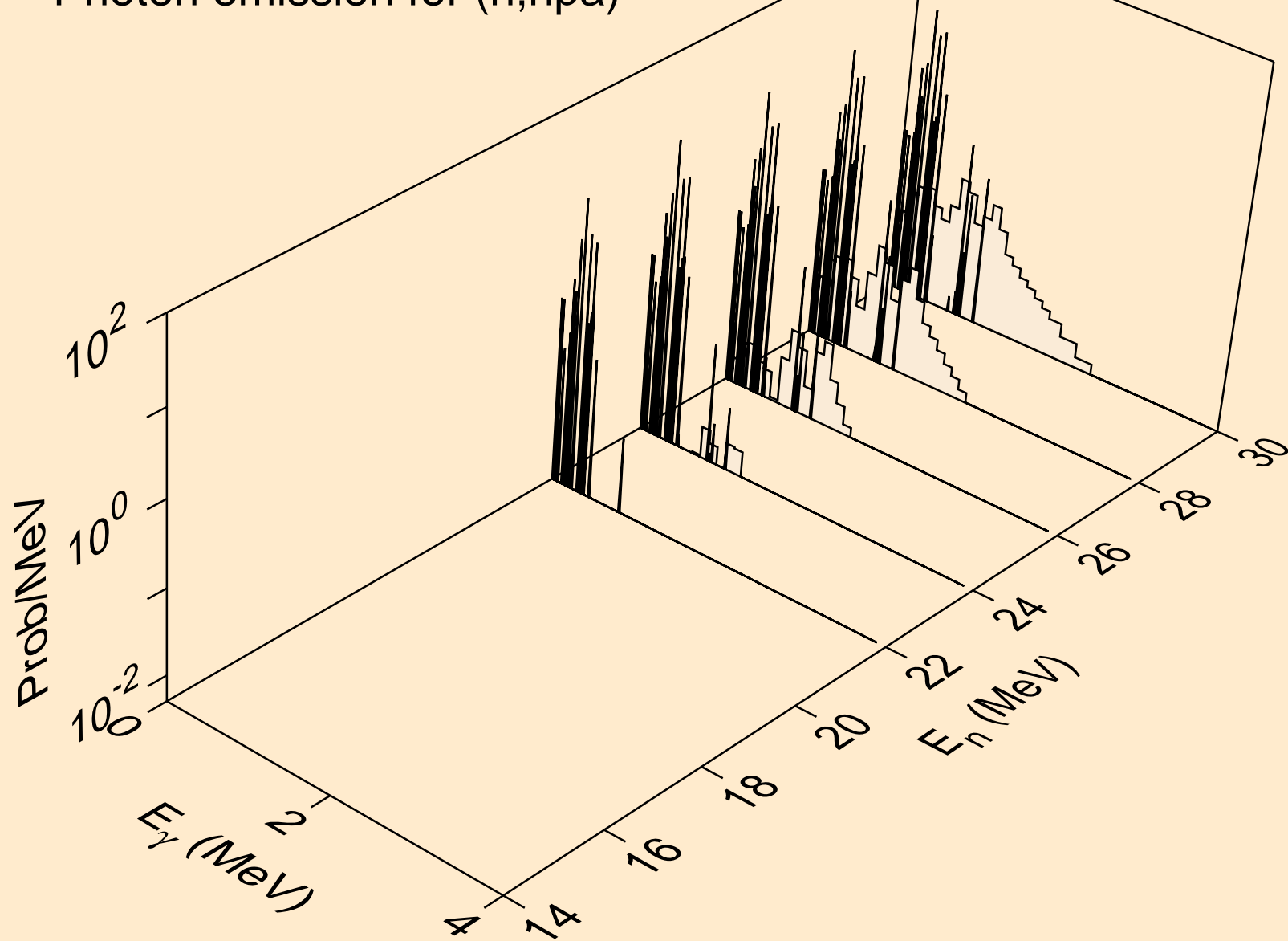
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Photon emission for (n,3np)



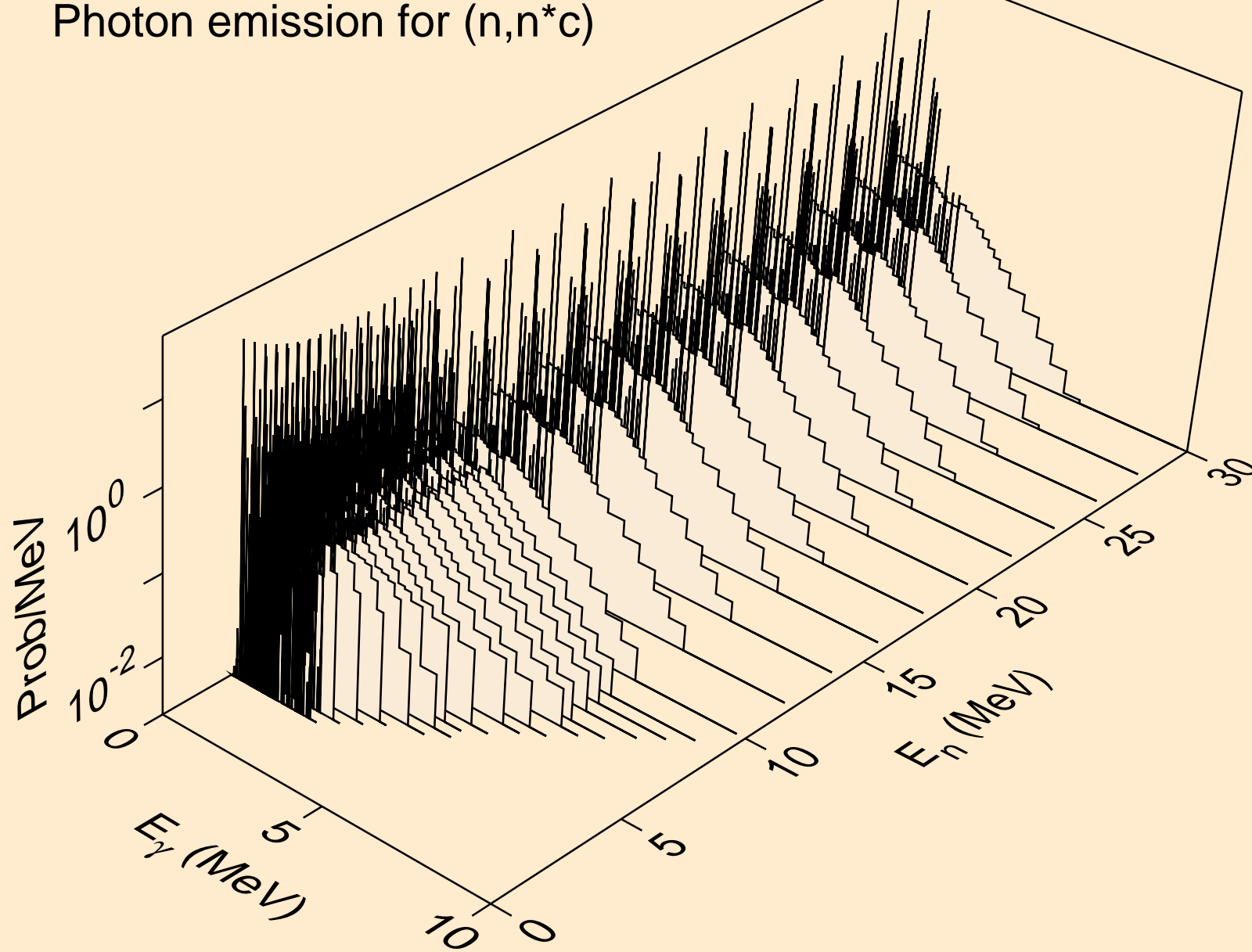
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Photon emission for (n,n2p)



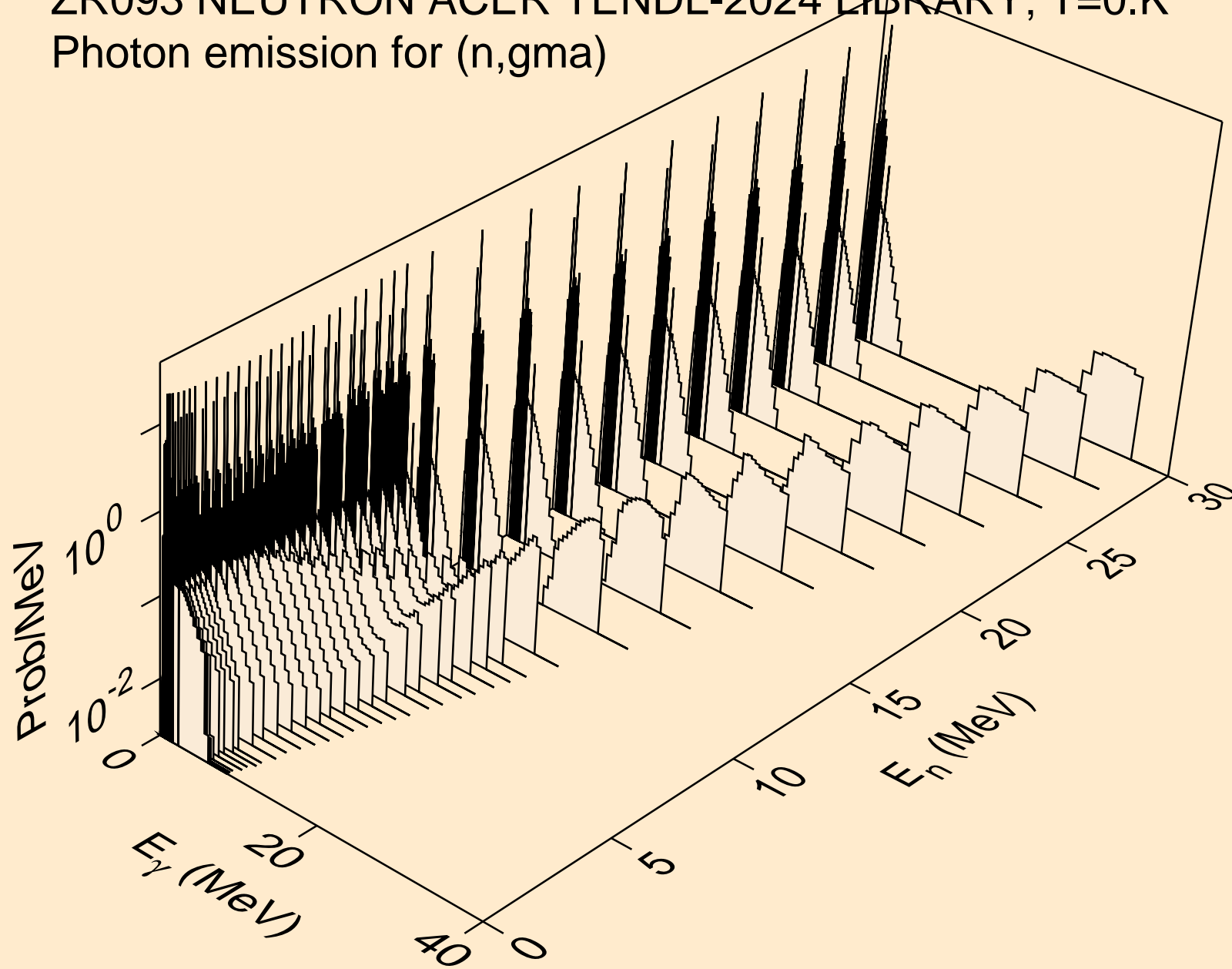
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

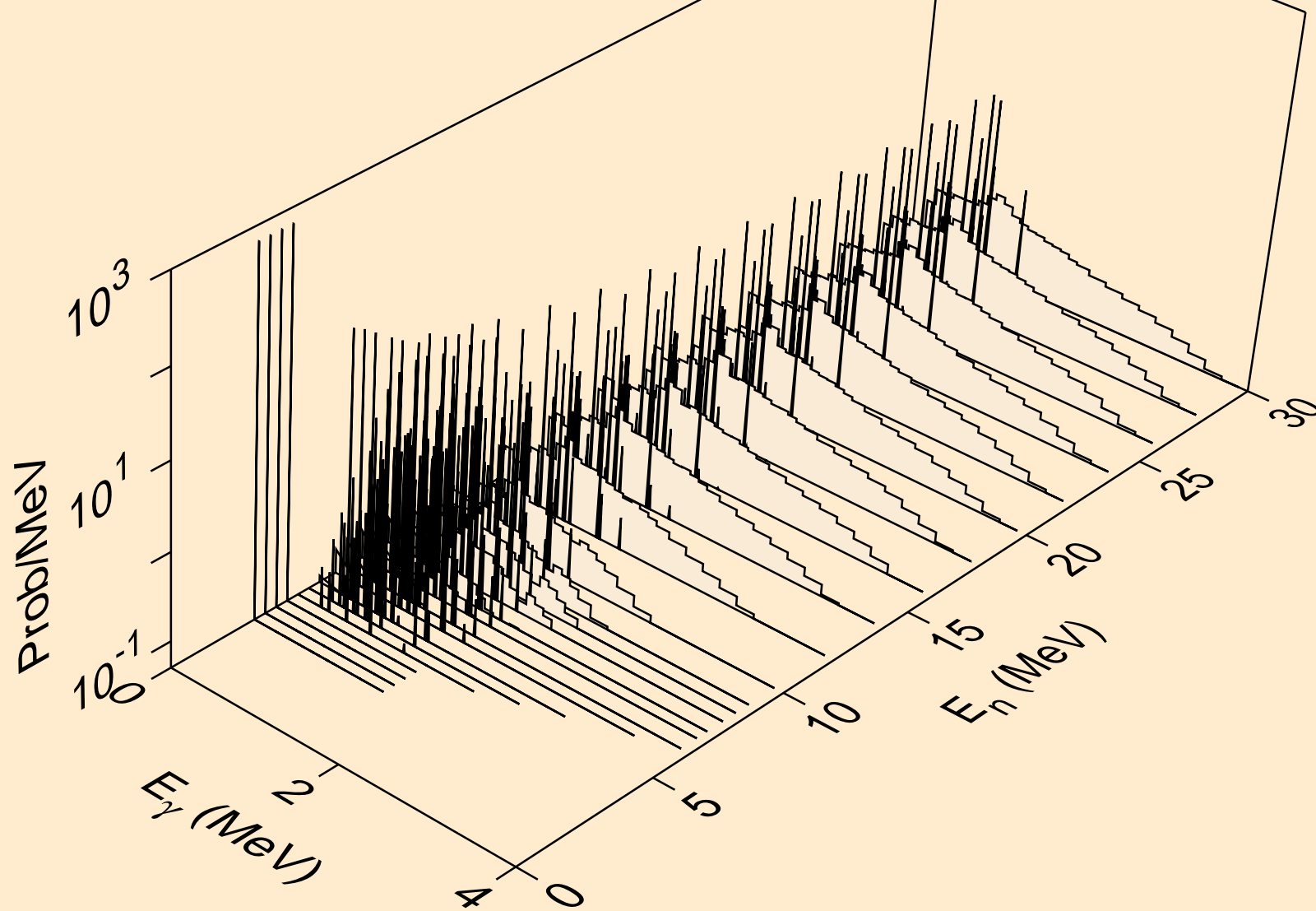


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Photon emission for (n,gma)

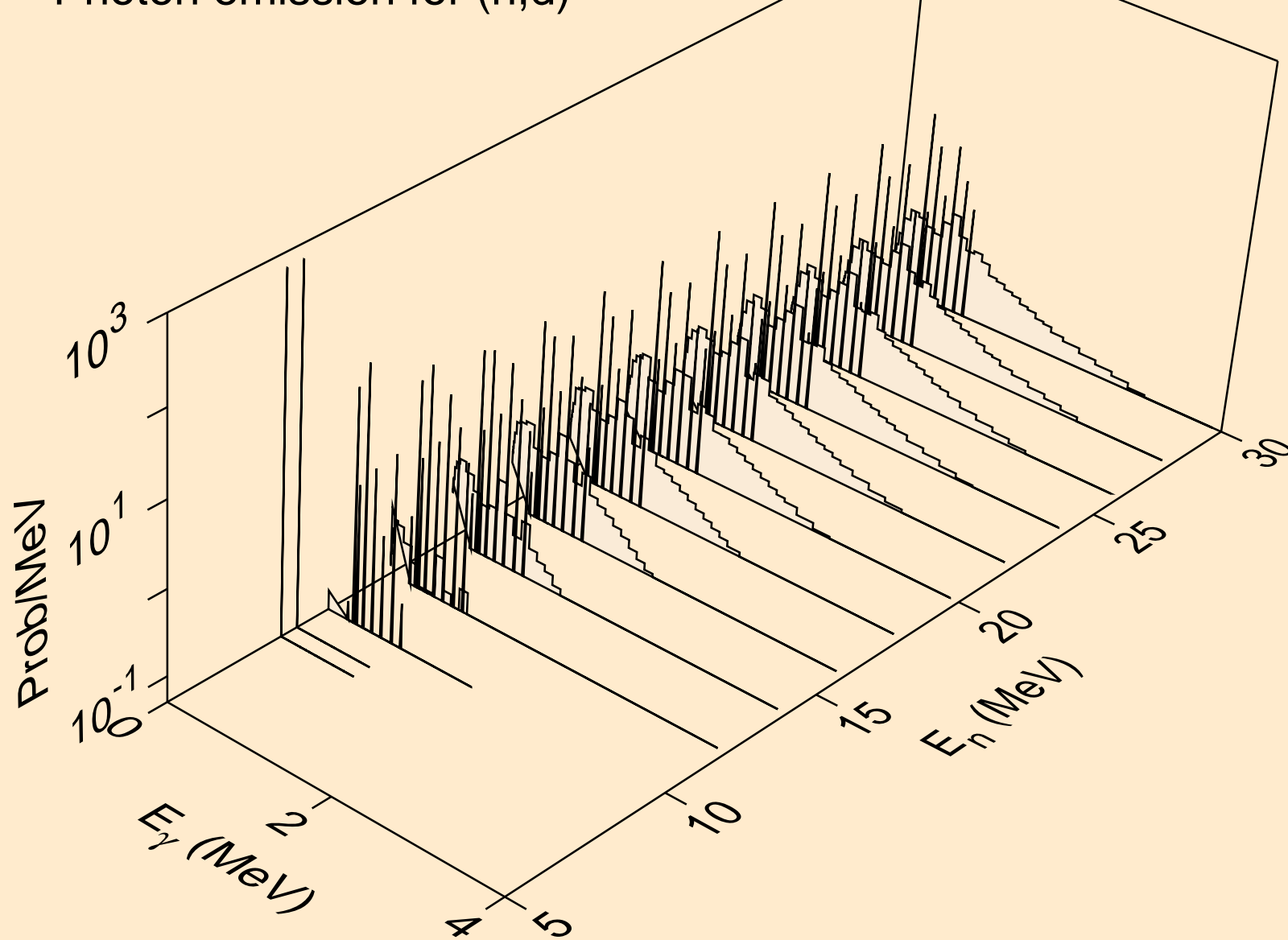




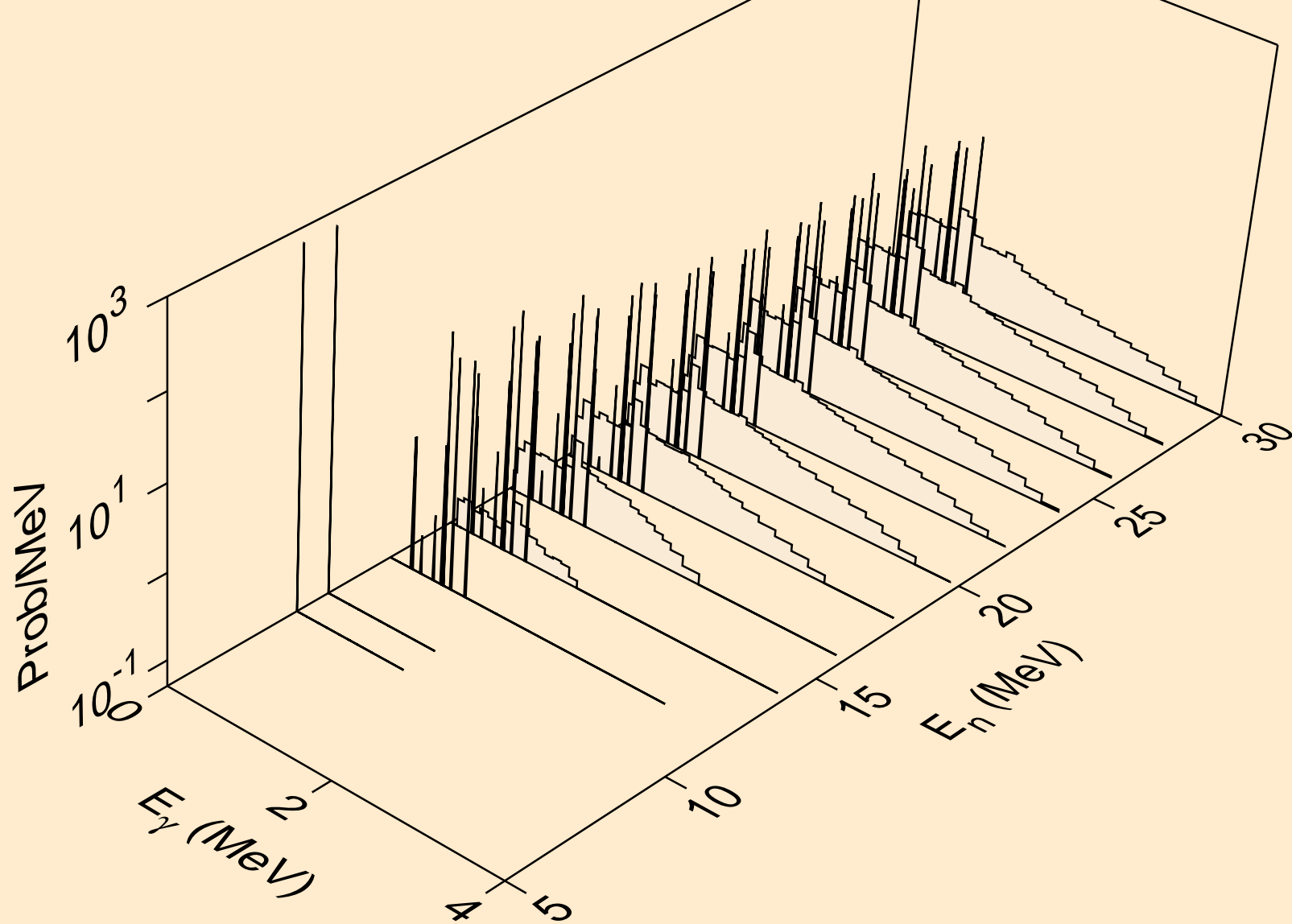
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Photon emission for (n,p)



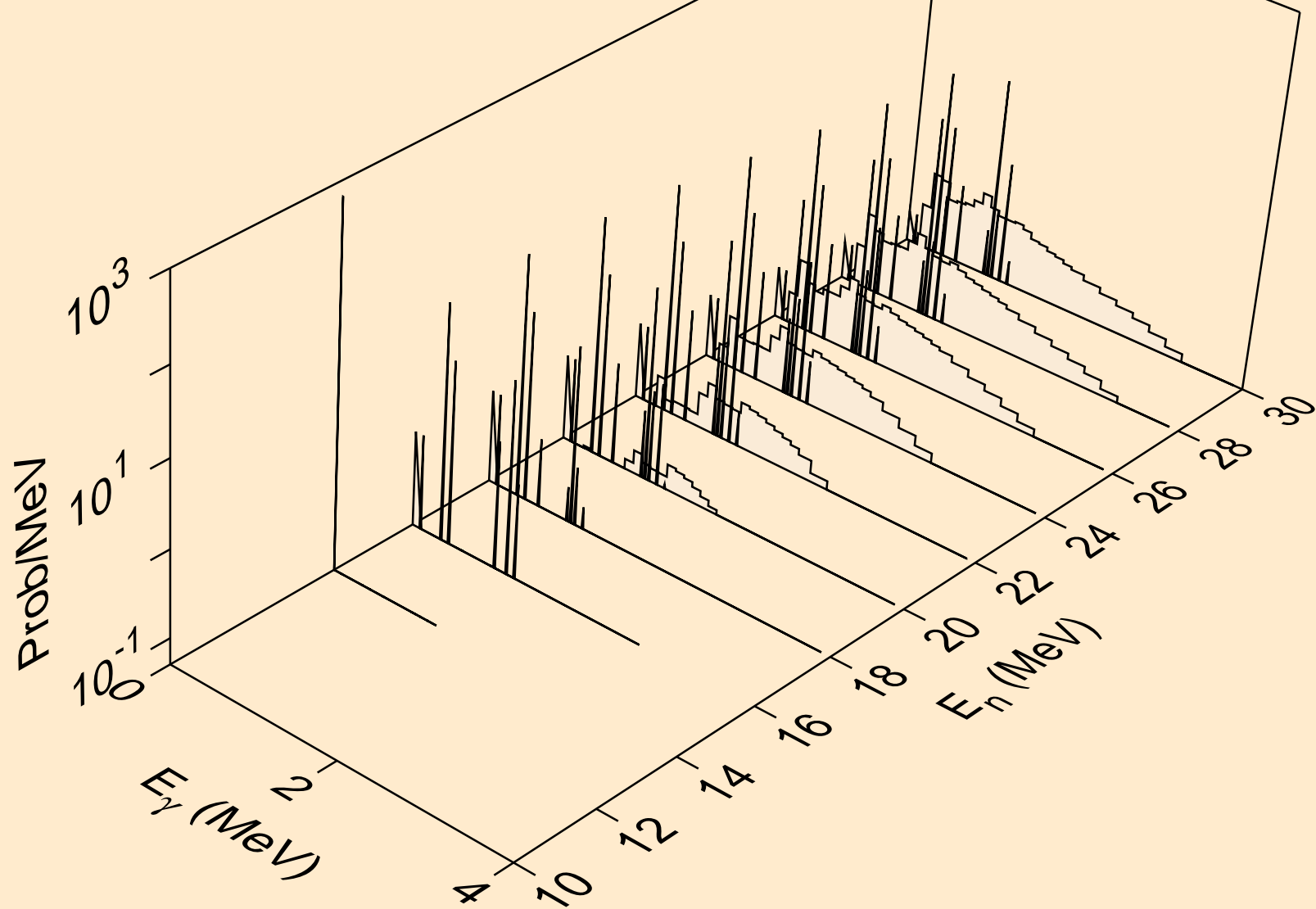
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Photon emission for (n,d)



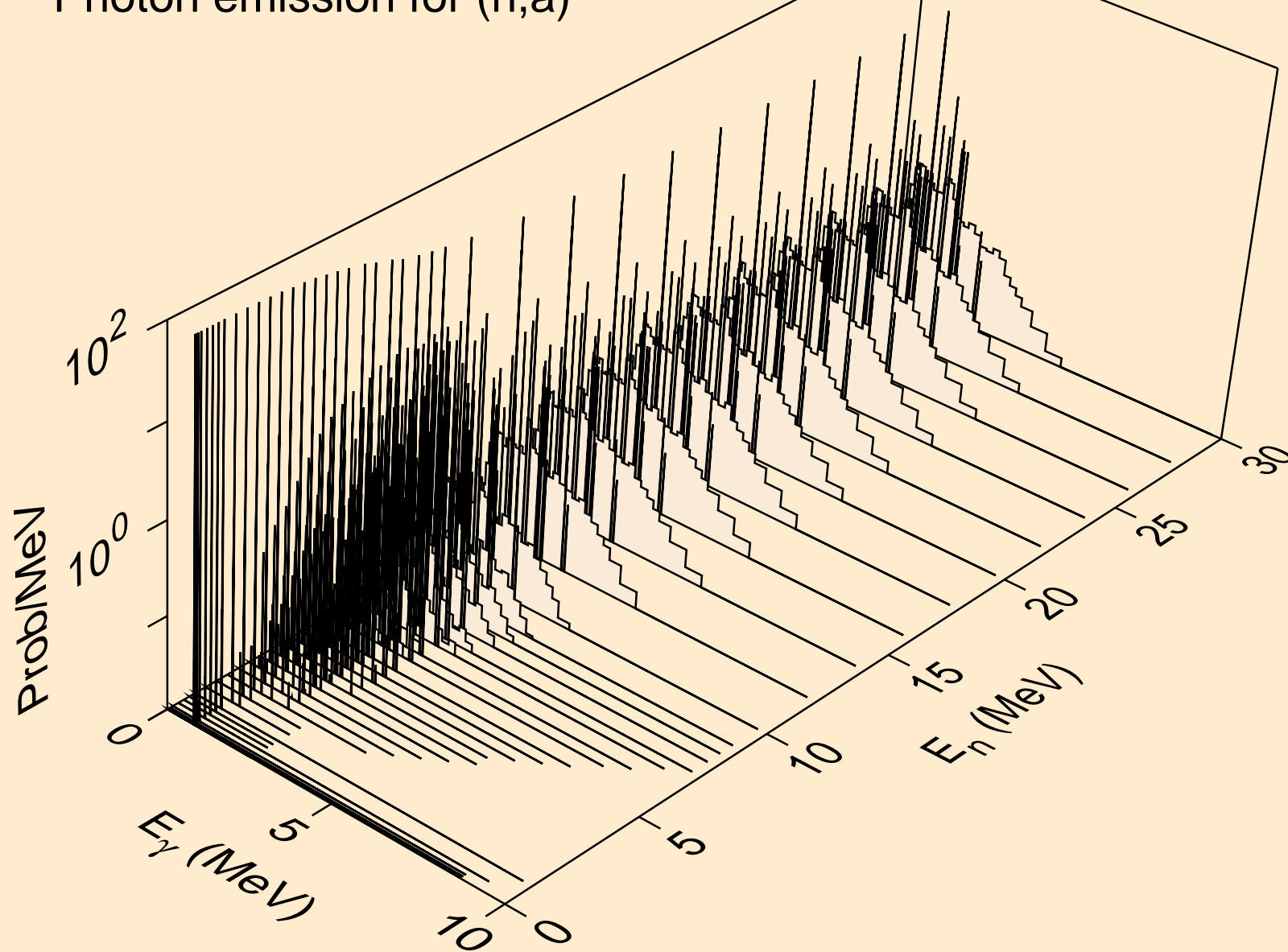
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Photon emission for (n,t)



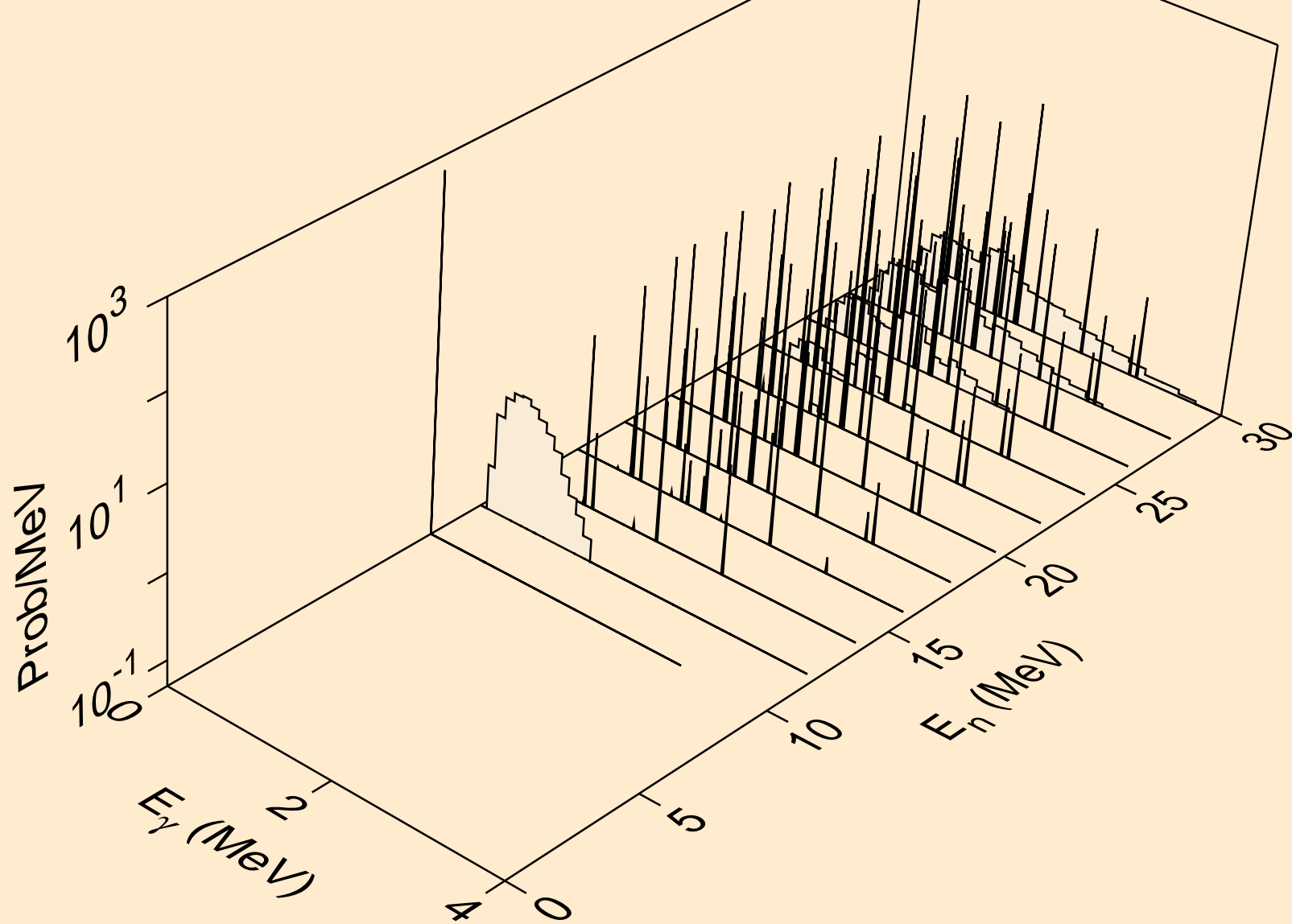
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Photon emission for (n,he3)



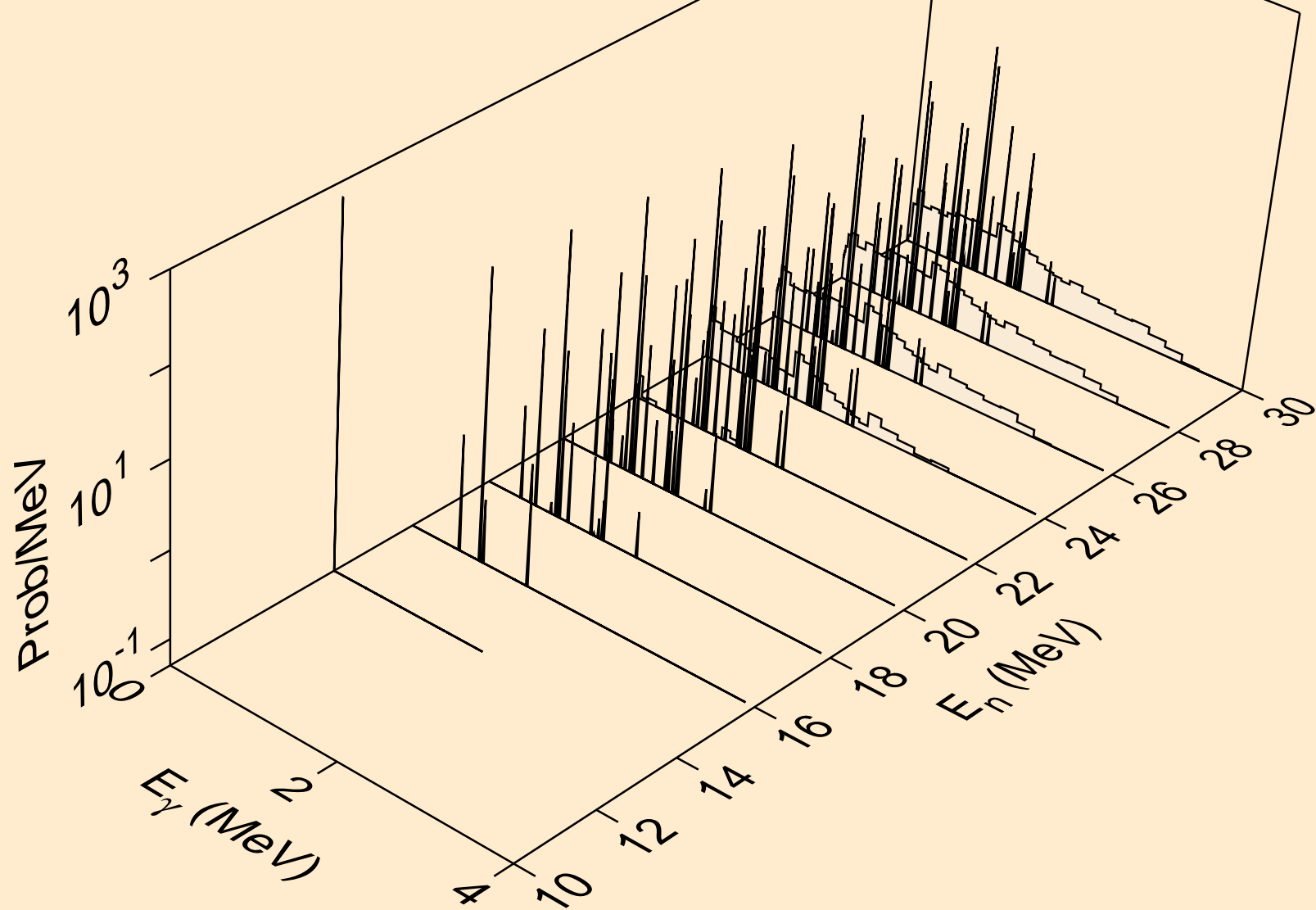
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Photon emission for (n,a)



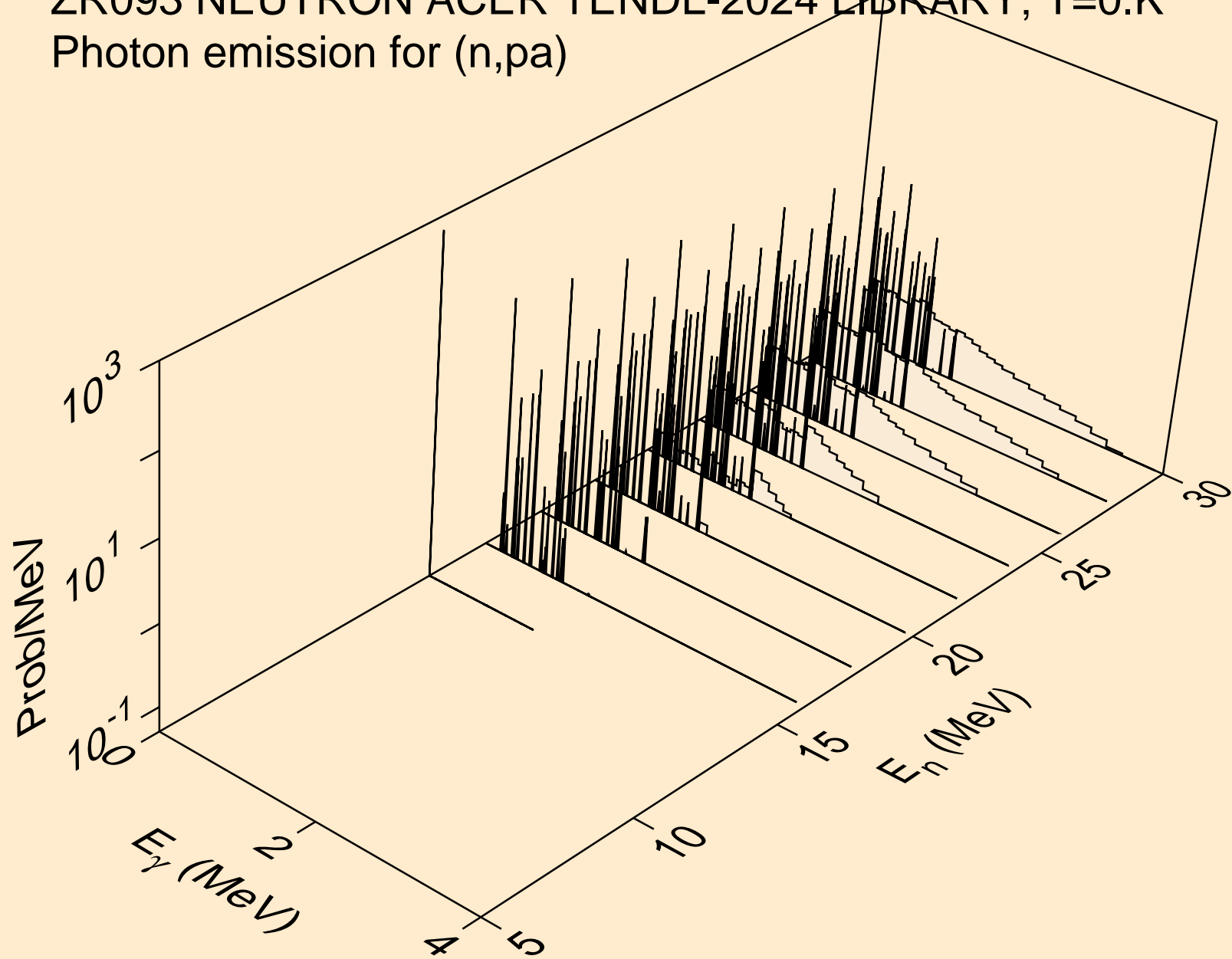
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)

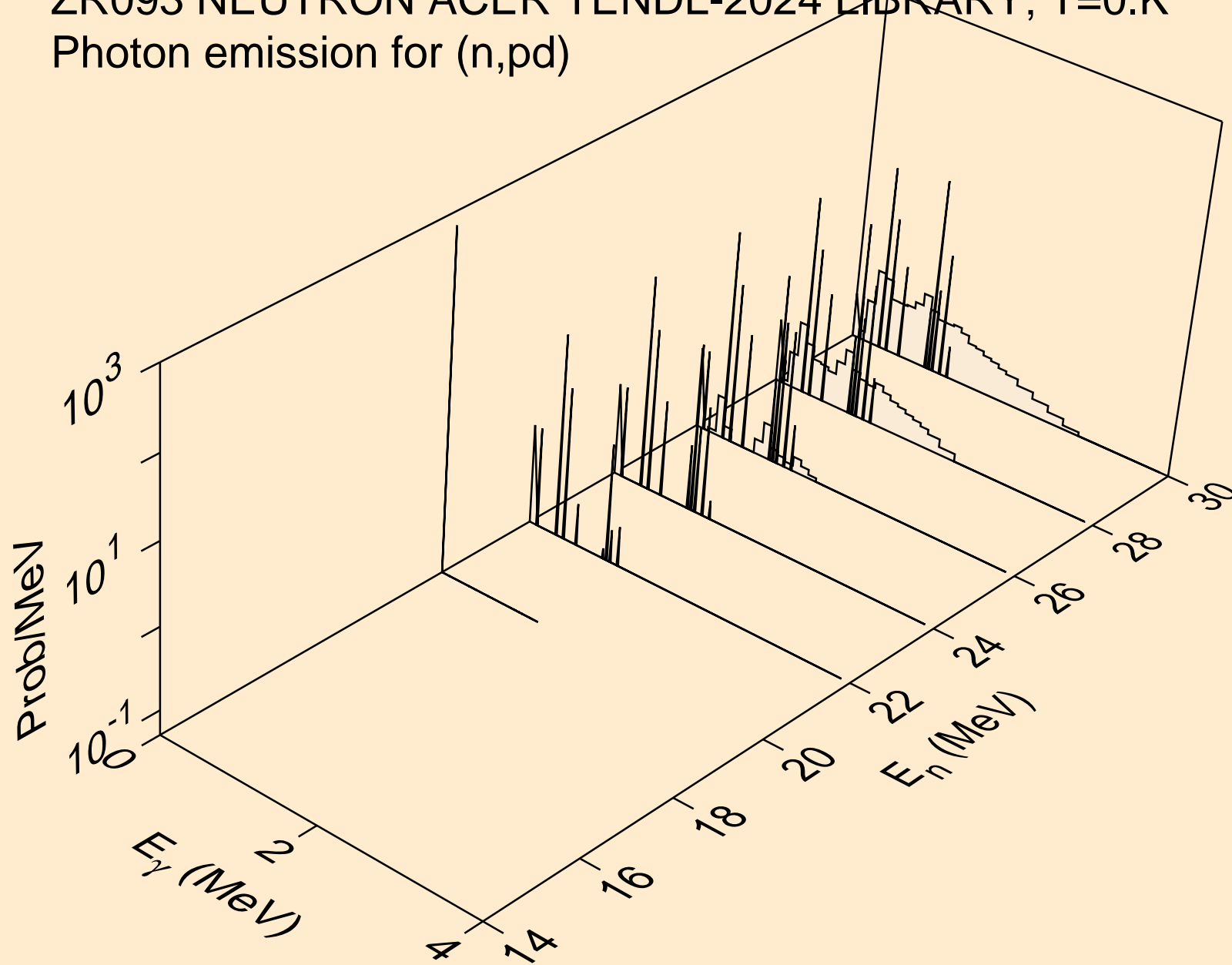


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

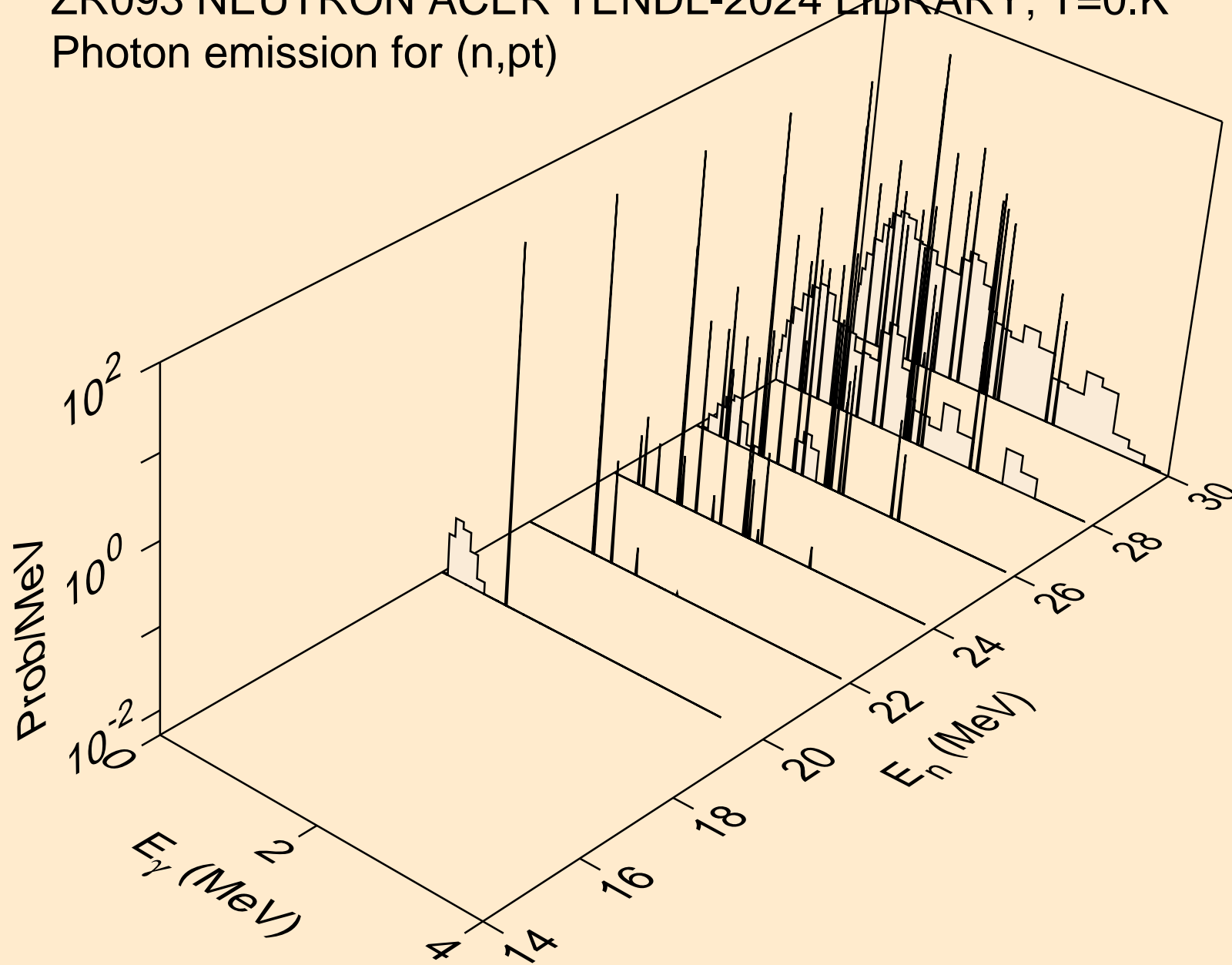




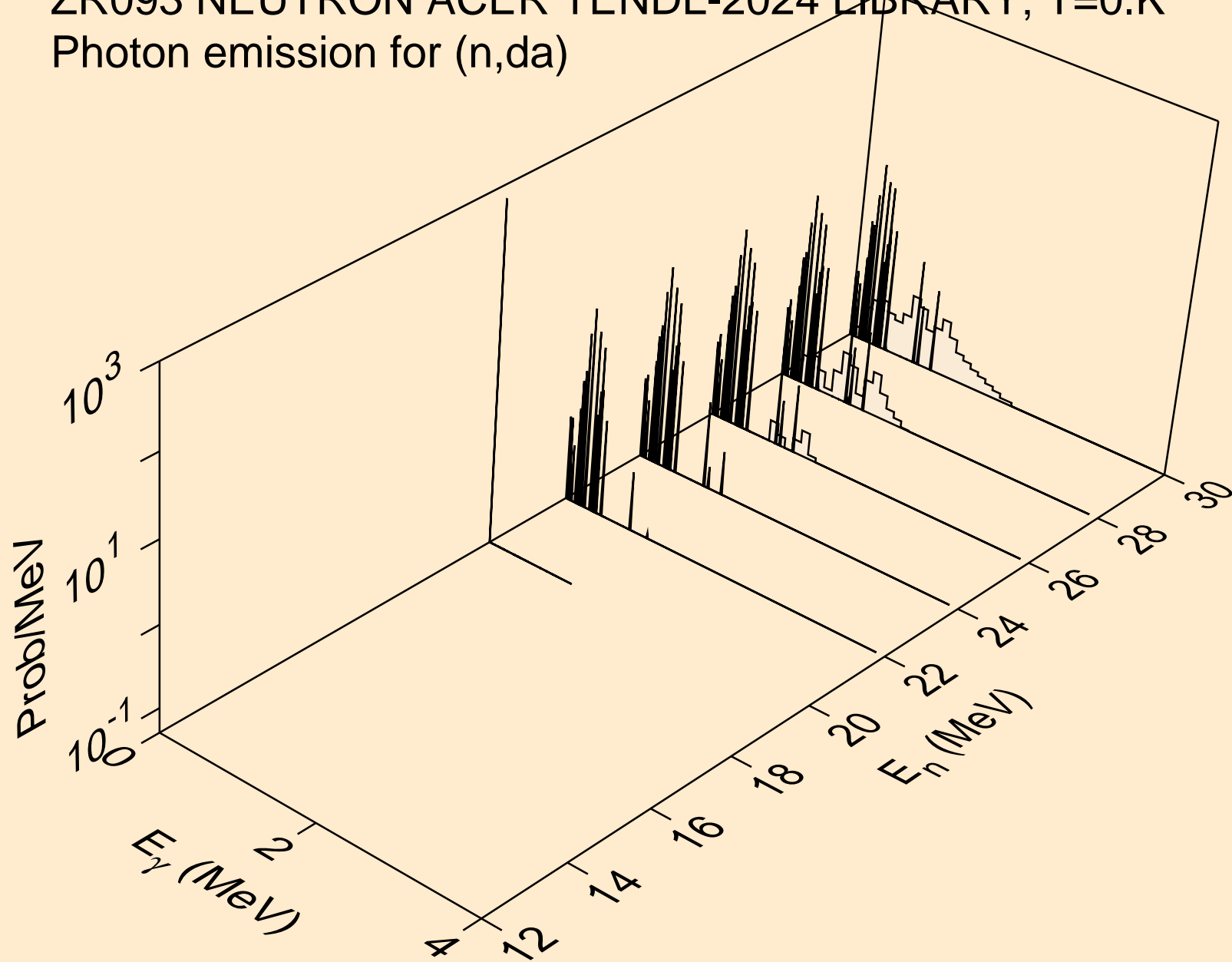
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Photon emission for (n,pd)



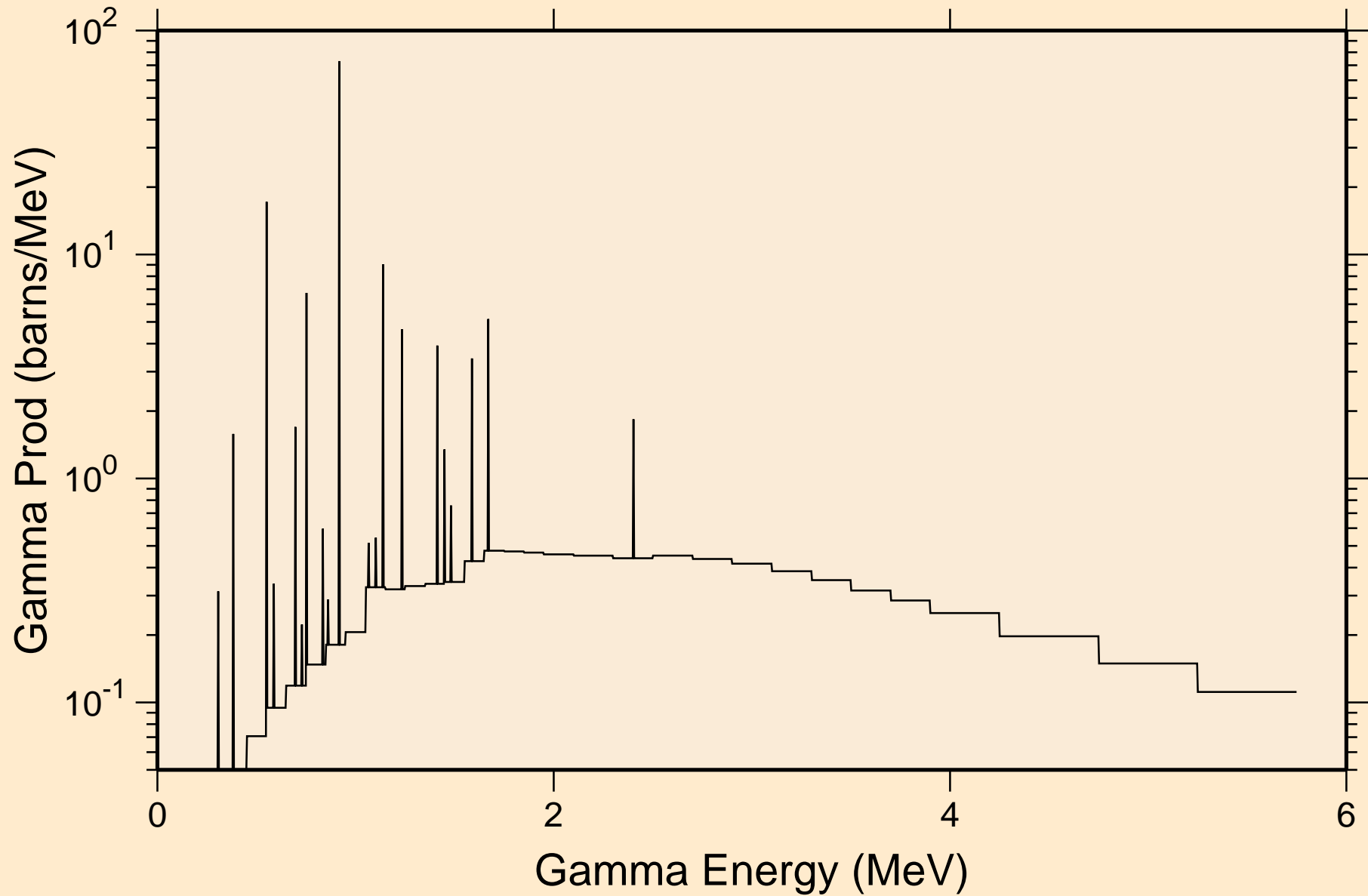
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



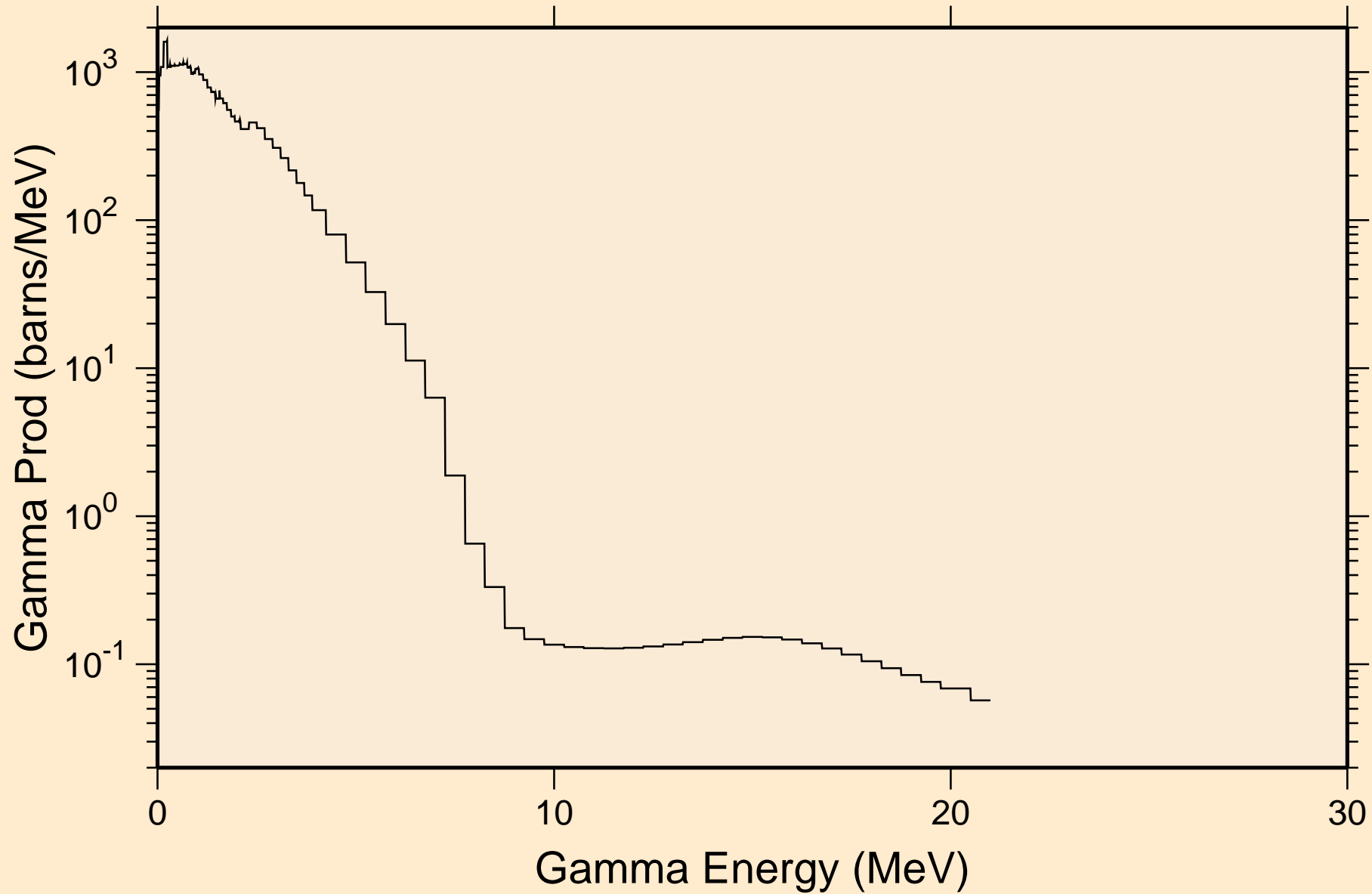
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

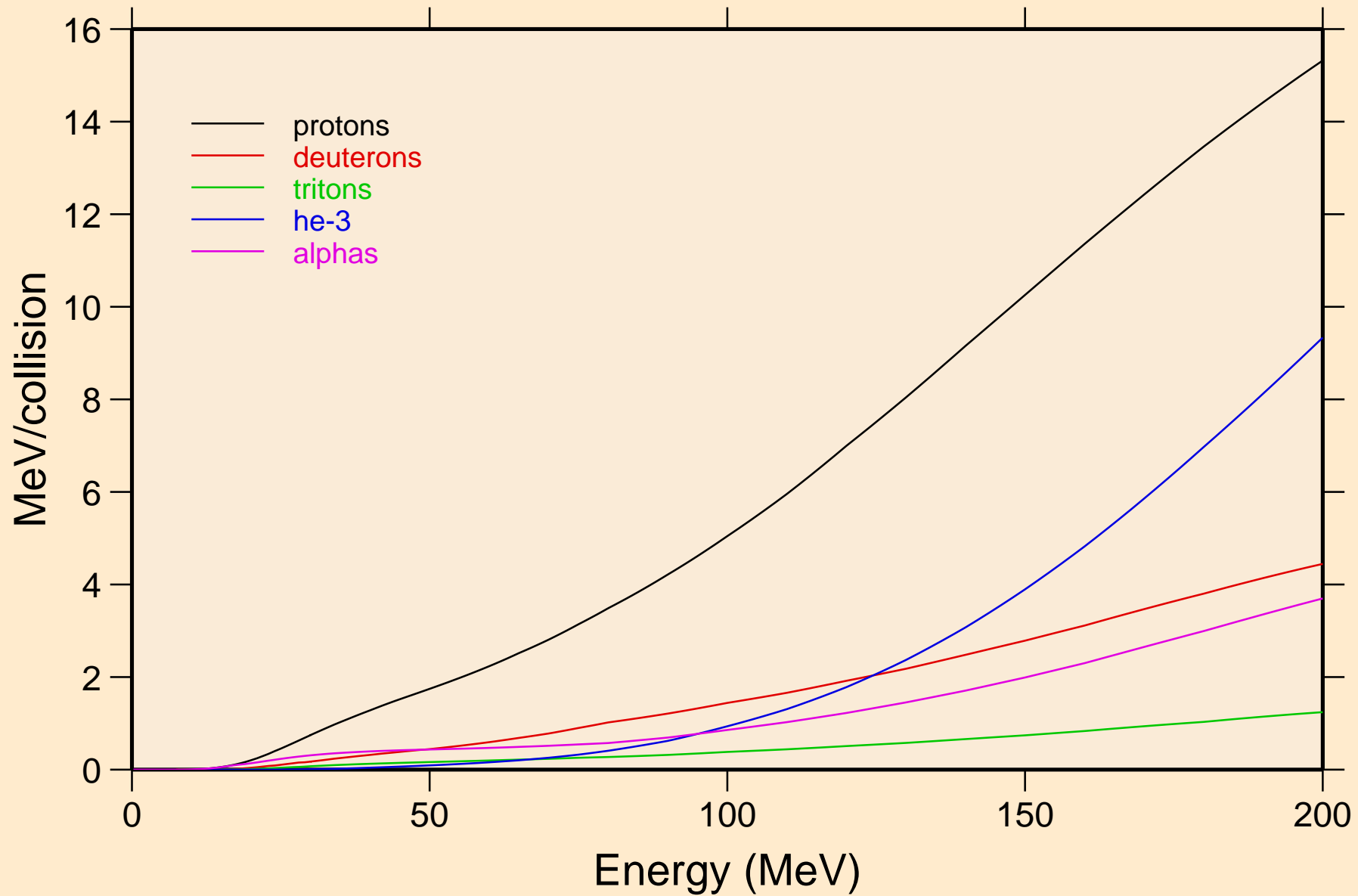


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

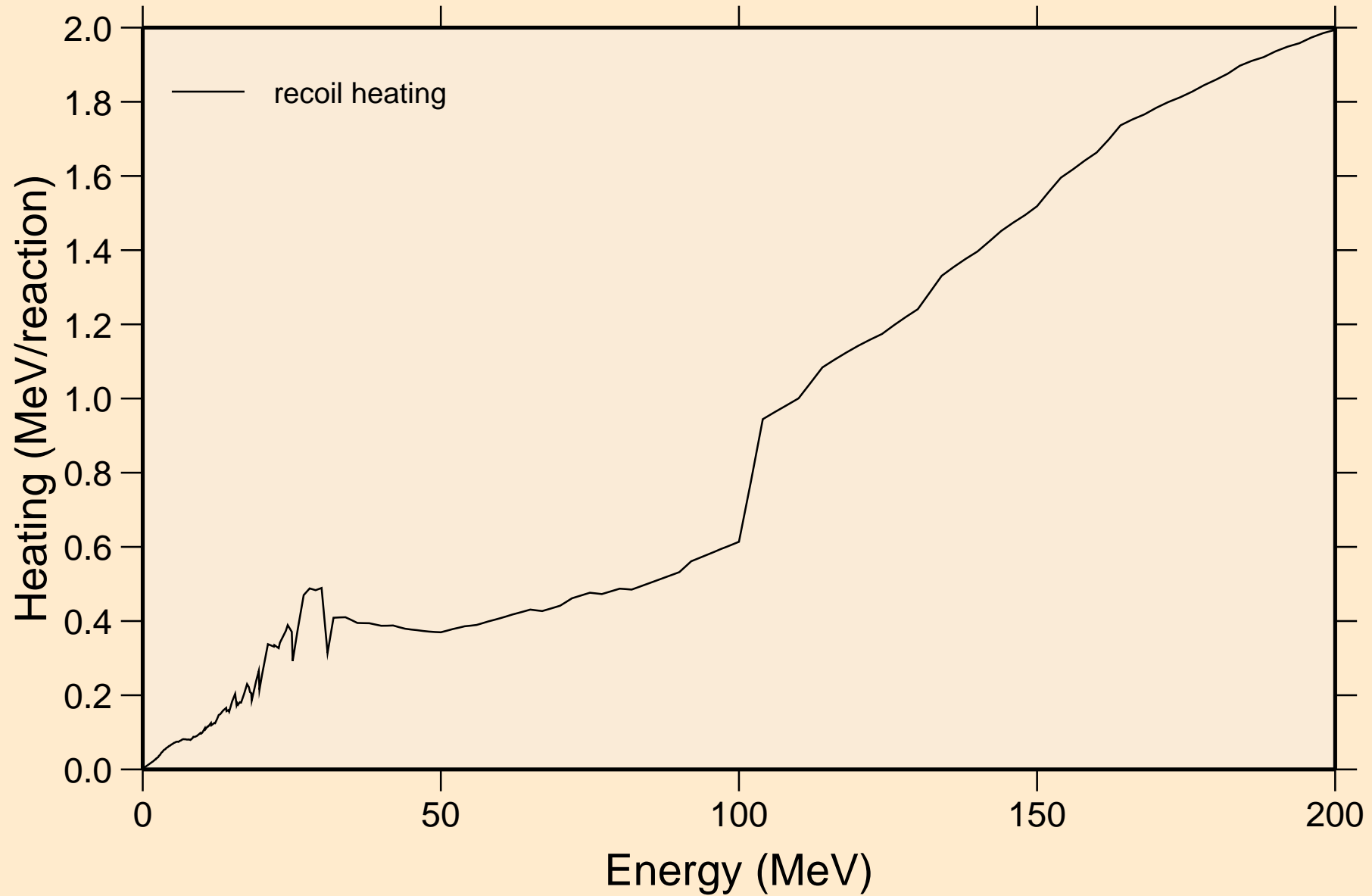


# ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

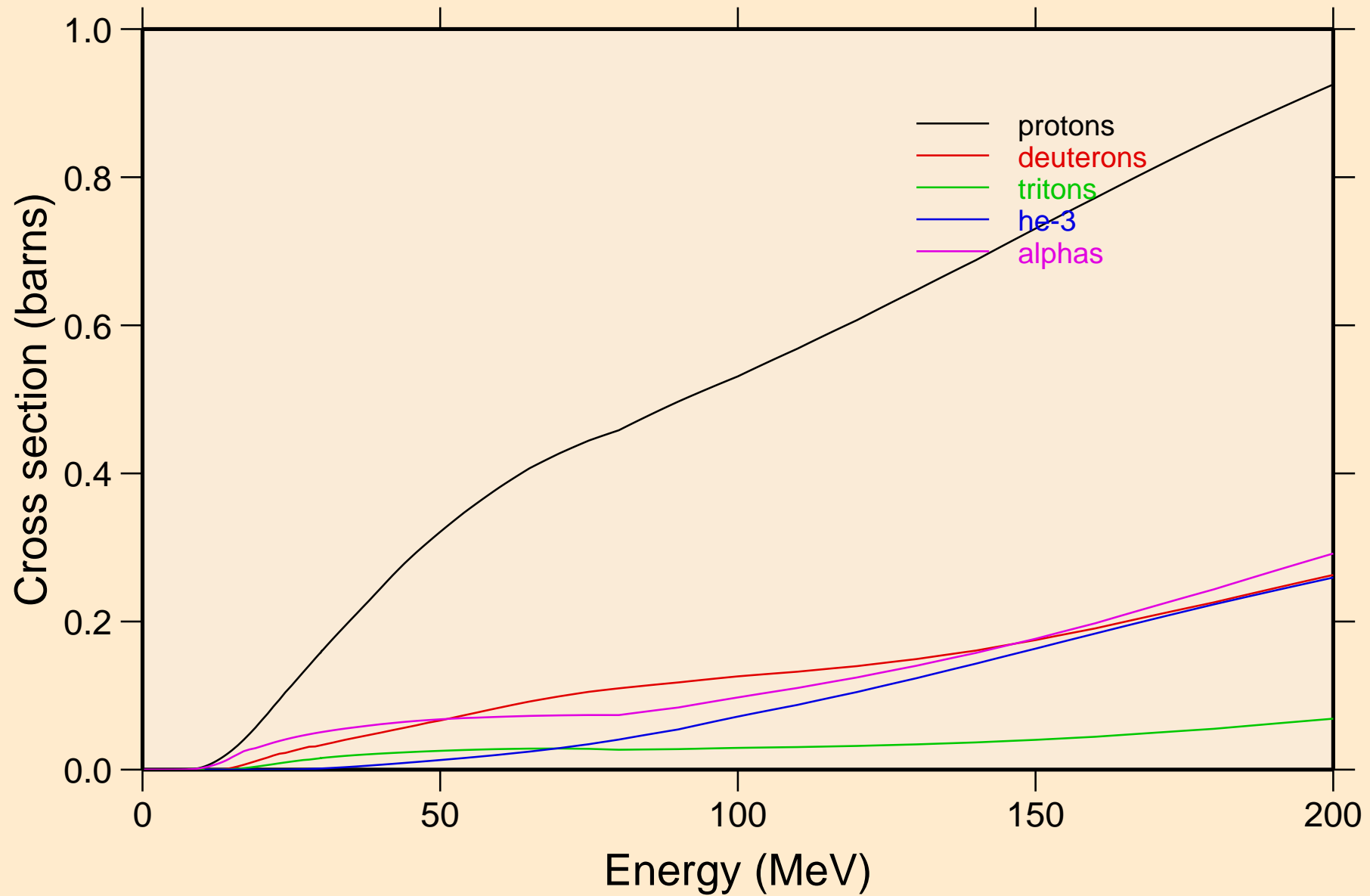
## Particle heating contributions



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Recoil Heating

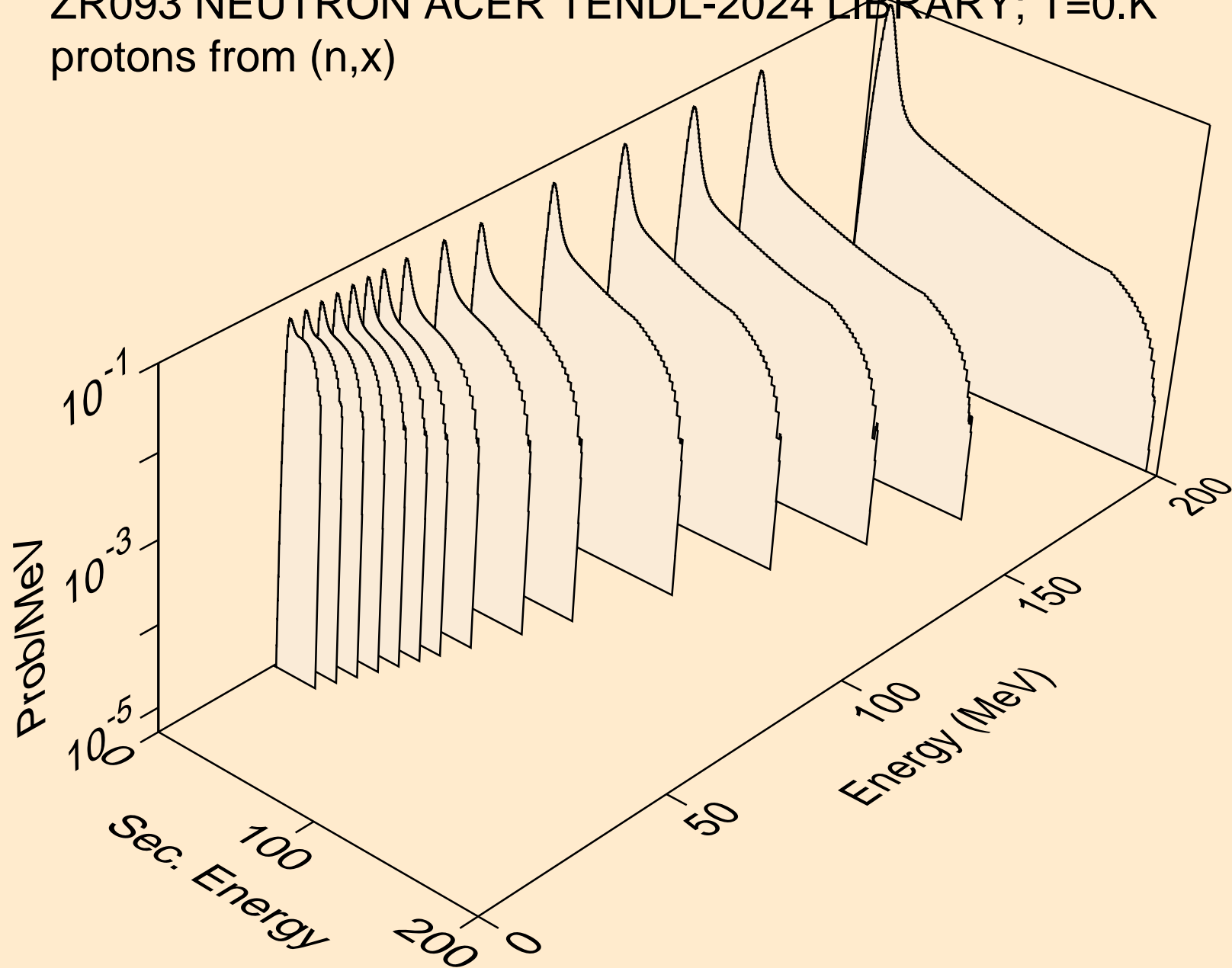


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections

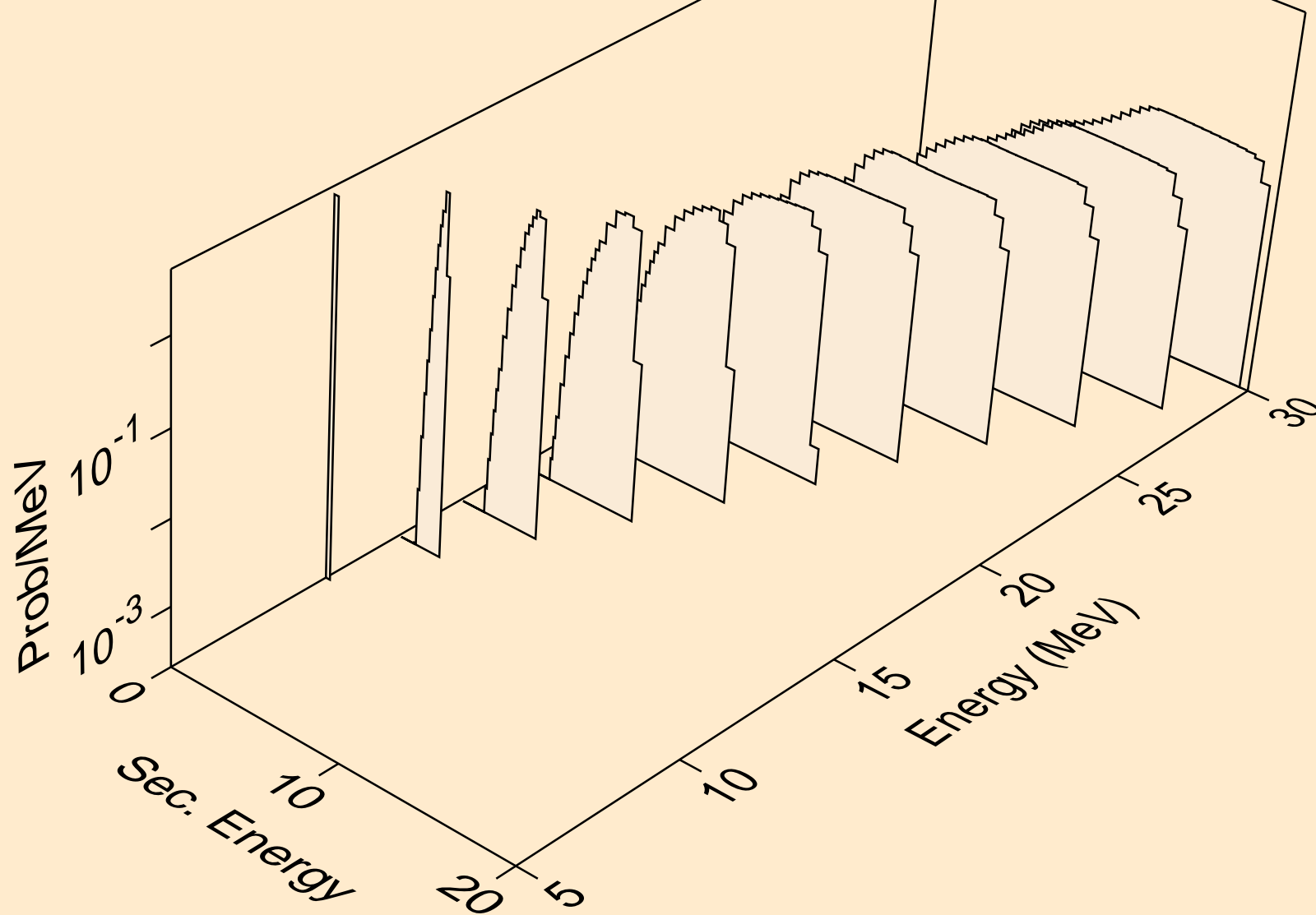




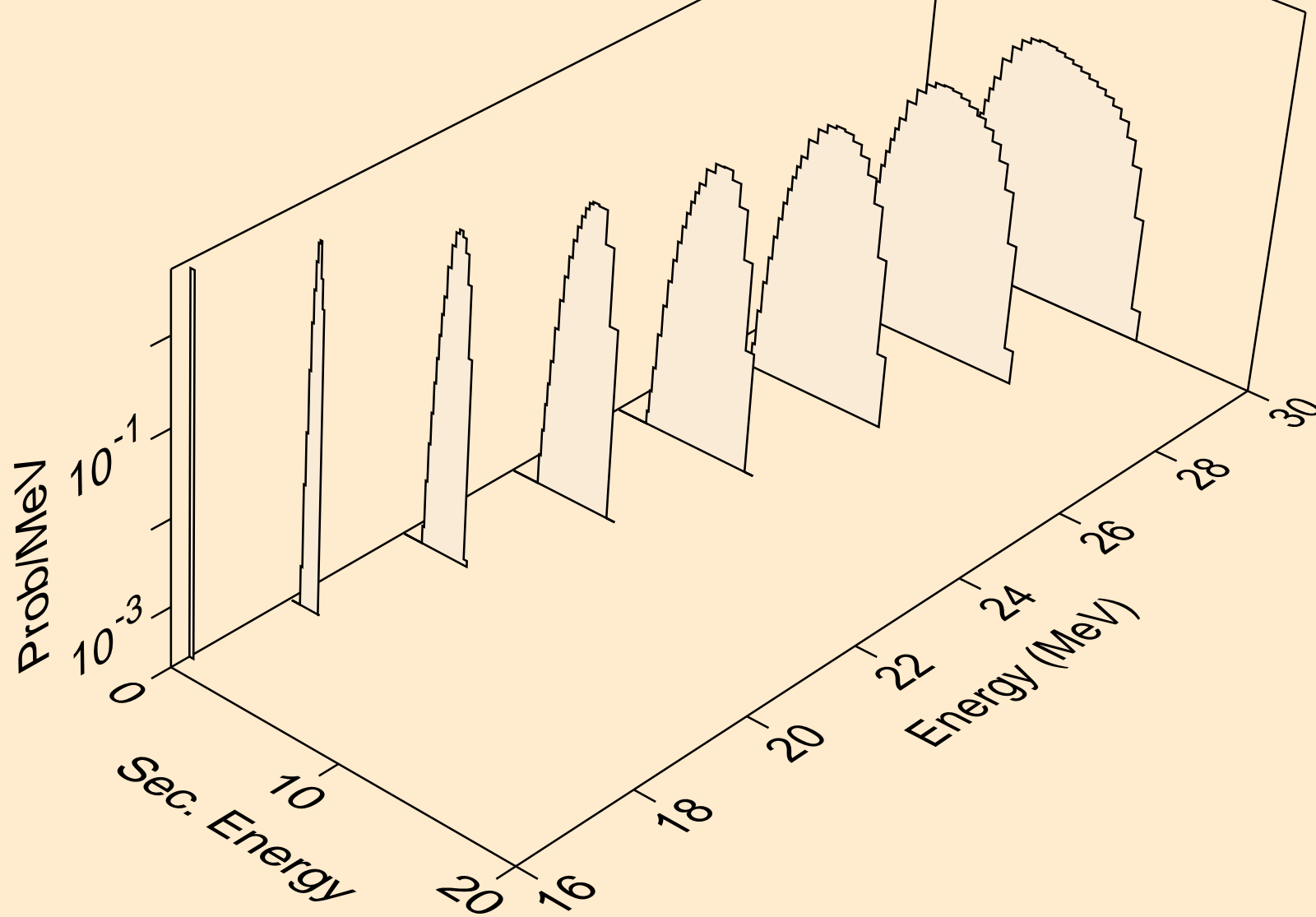
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)



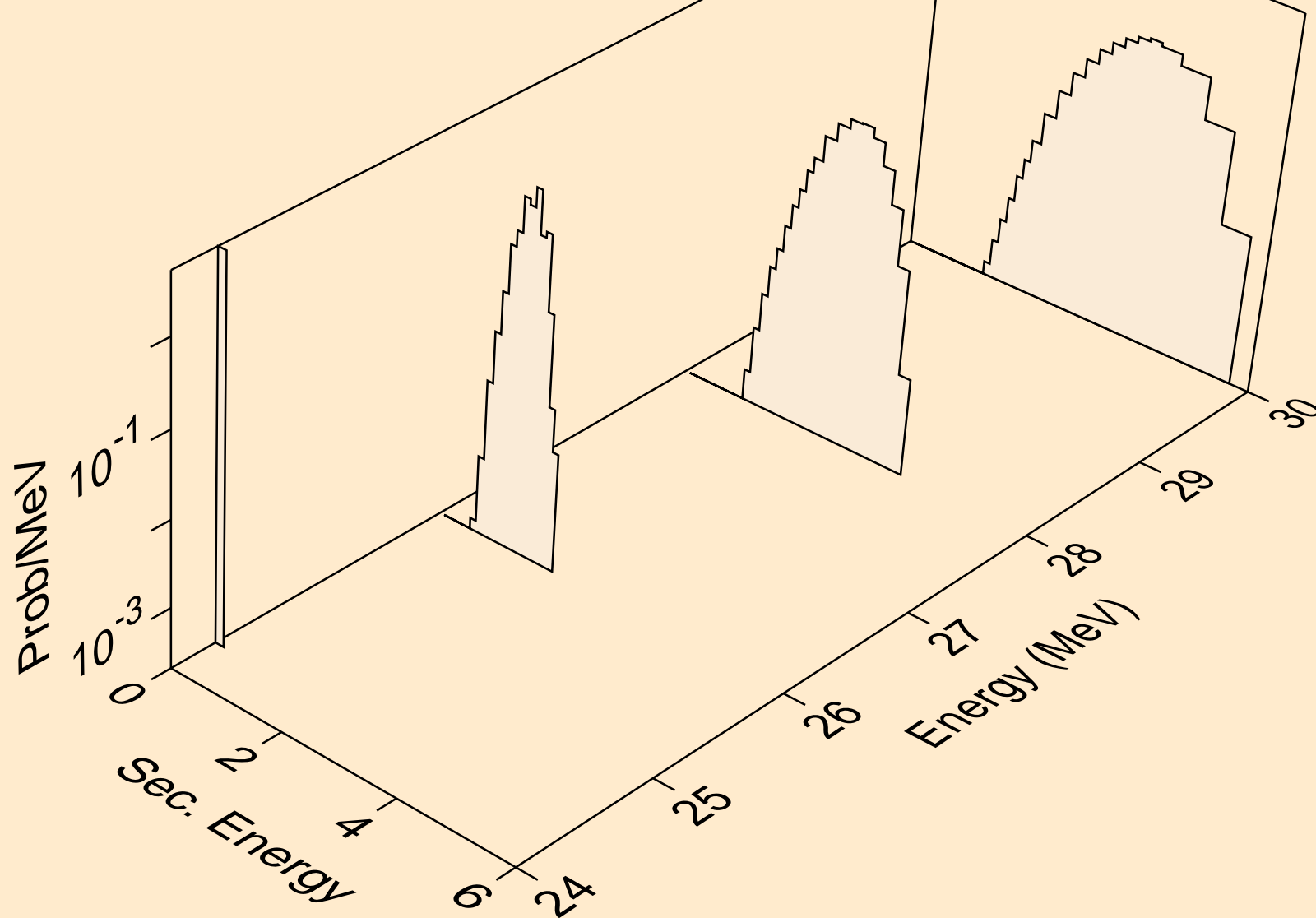
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protons from (n,n\*)p



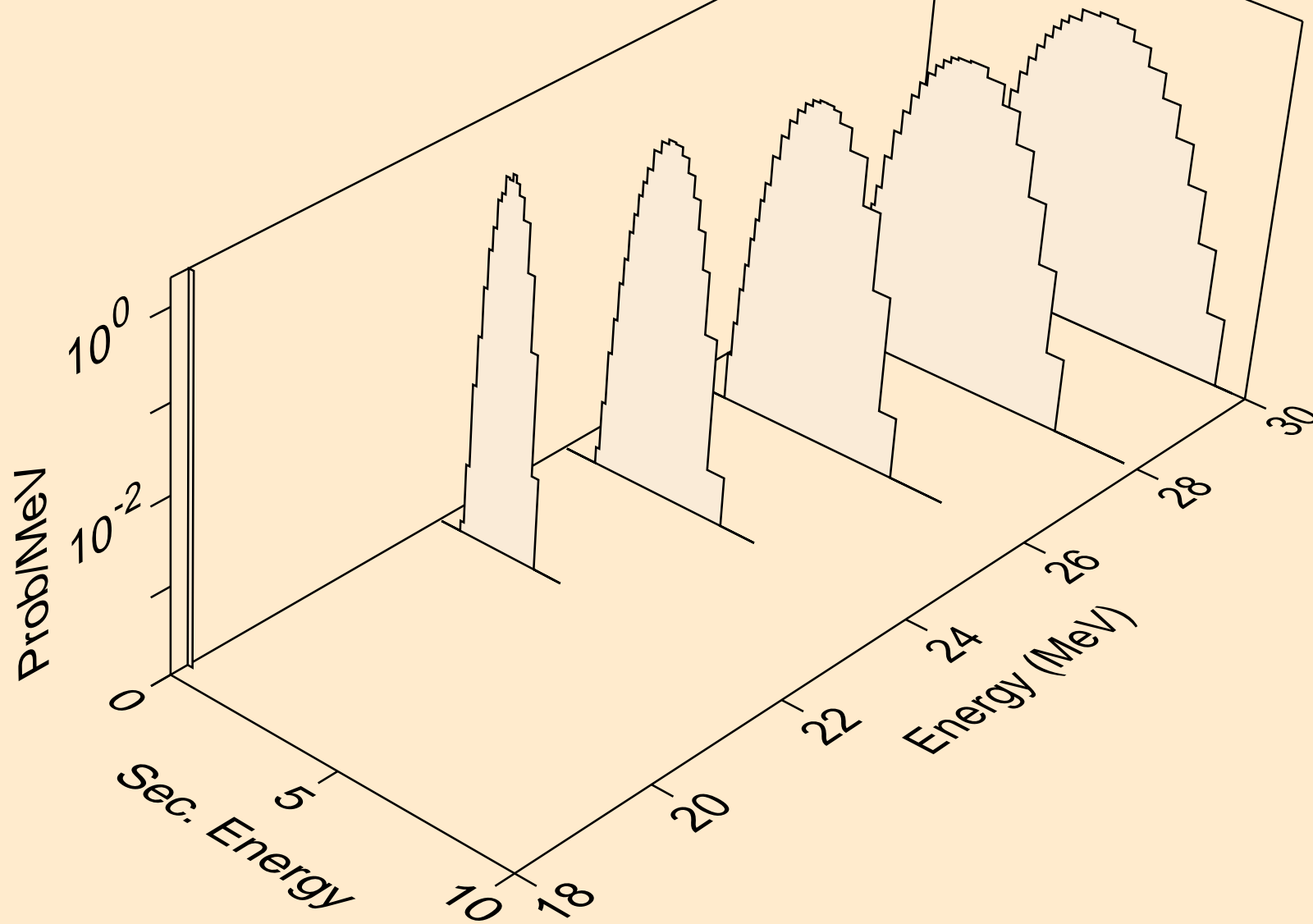
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protons from (n,2np)



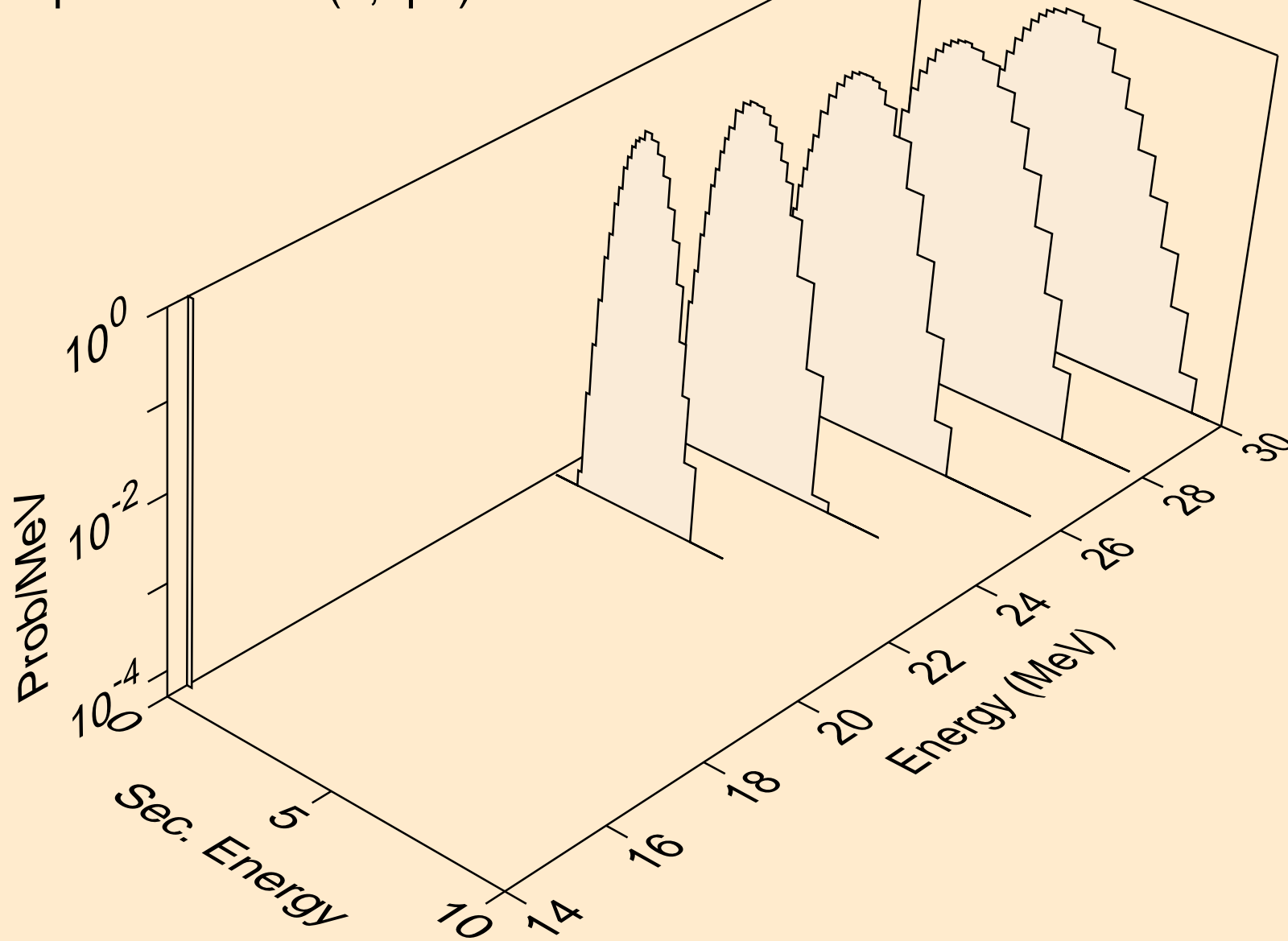
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protons from (n,3np)



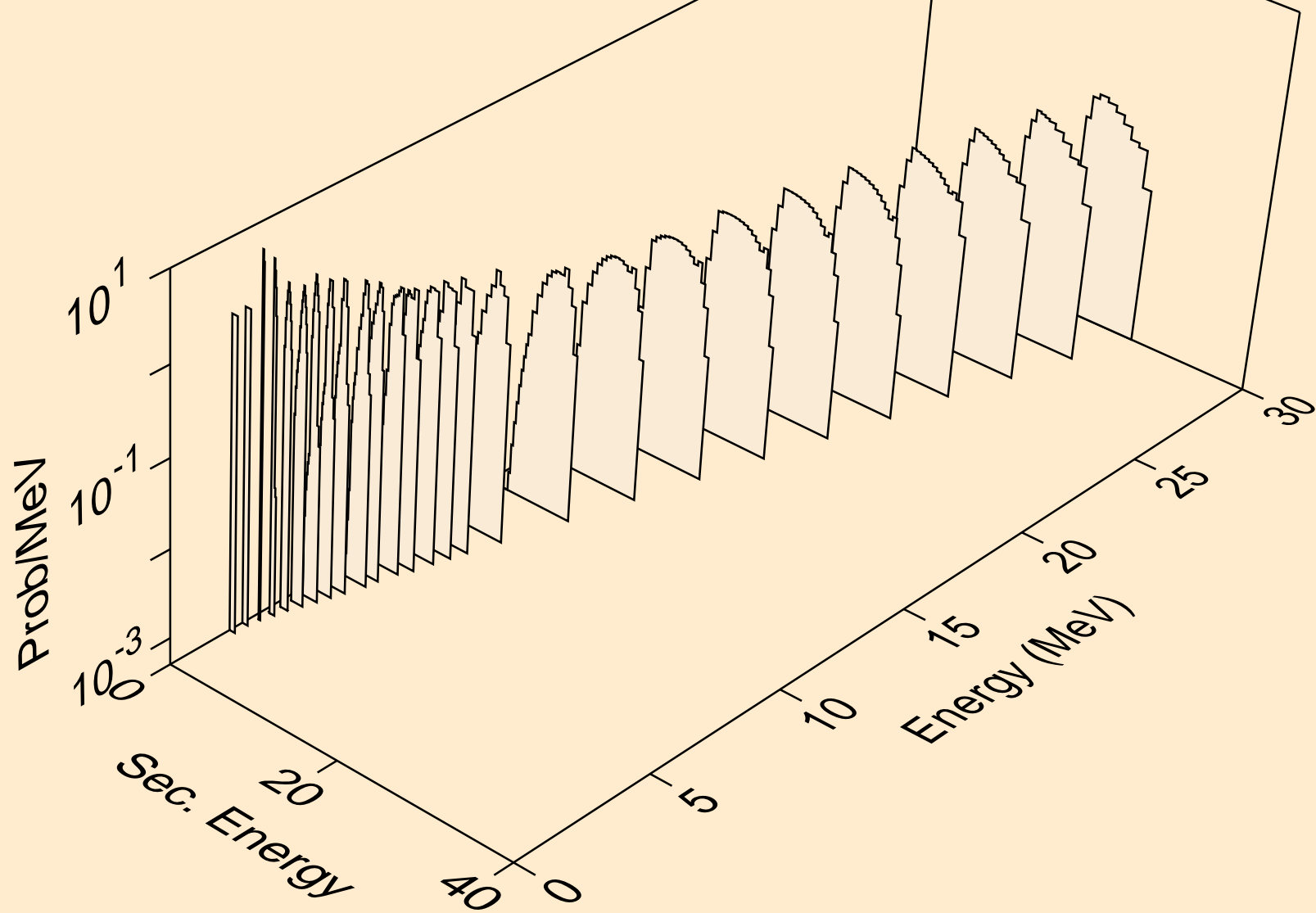
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protons from (n,n2p)



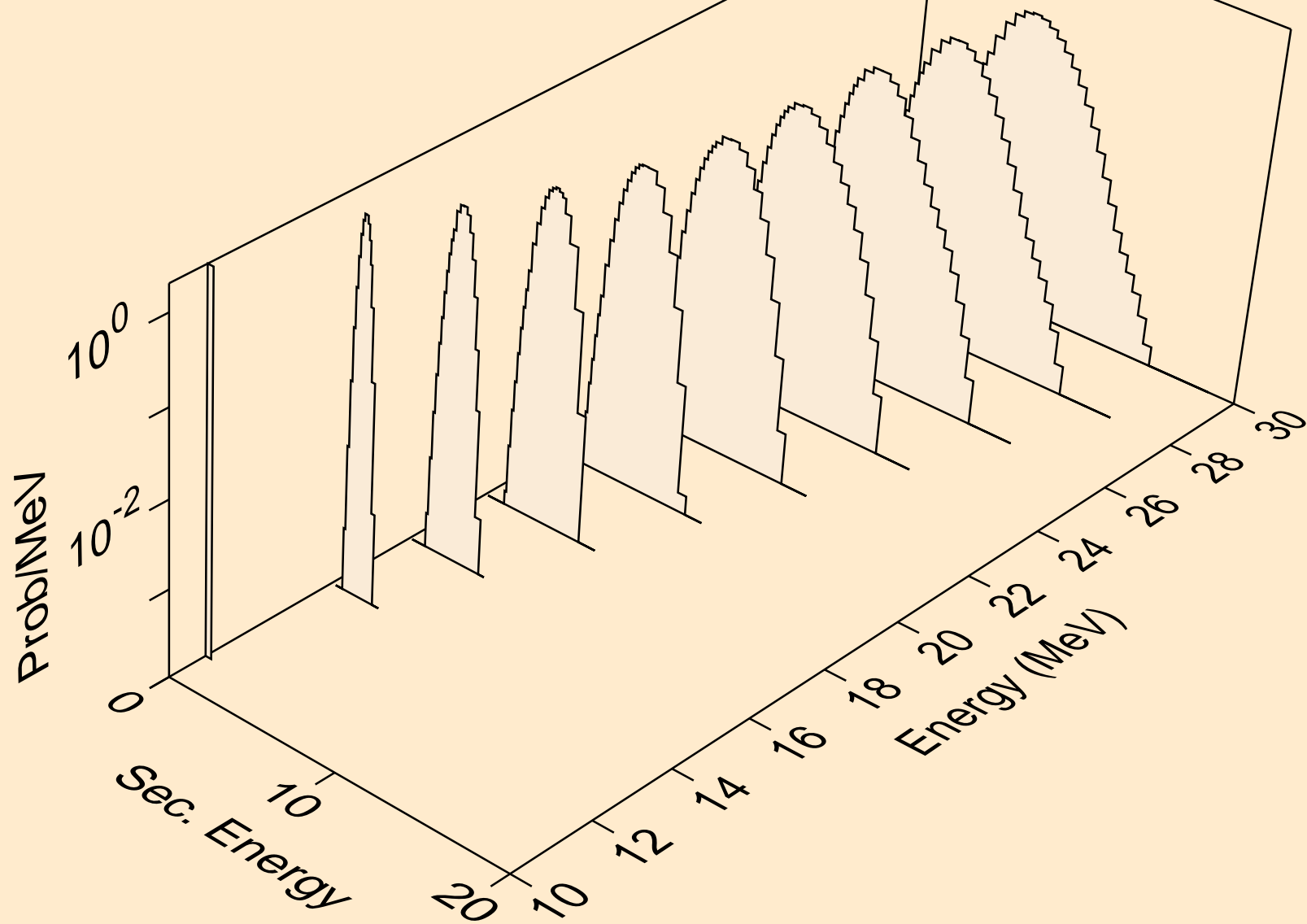
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protons from (n,npa)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

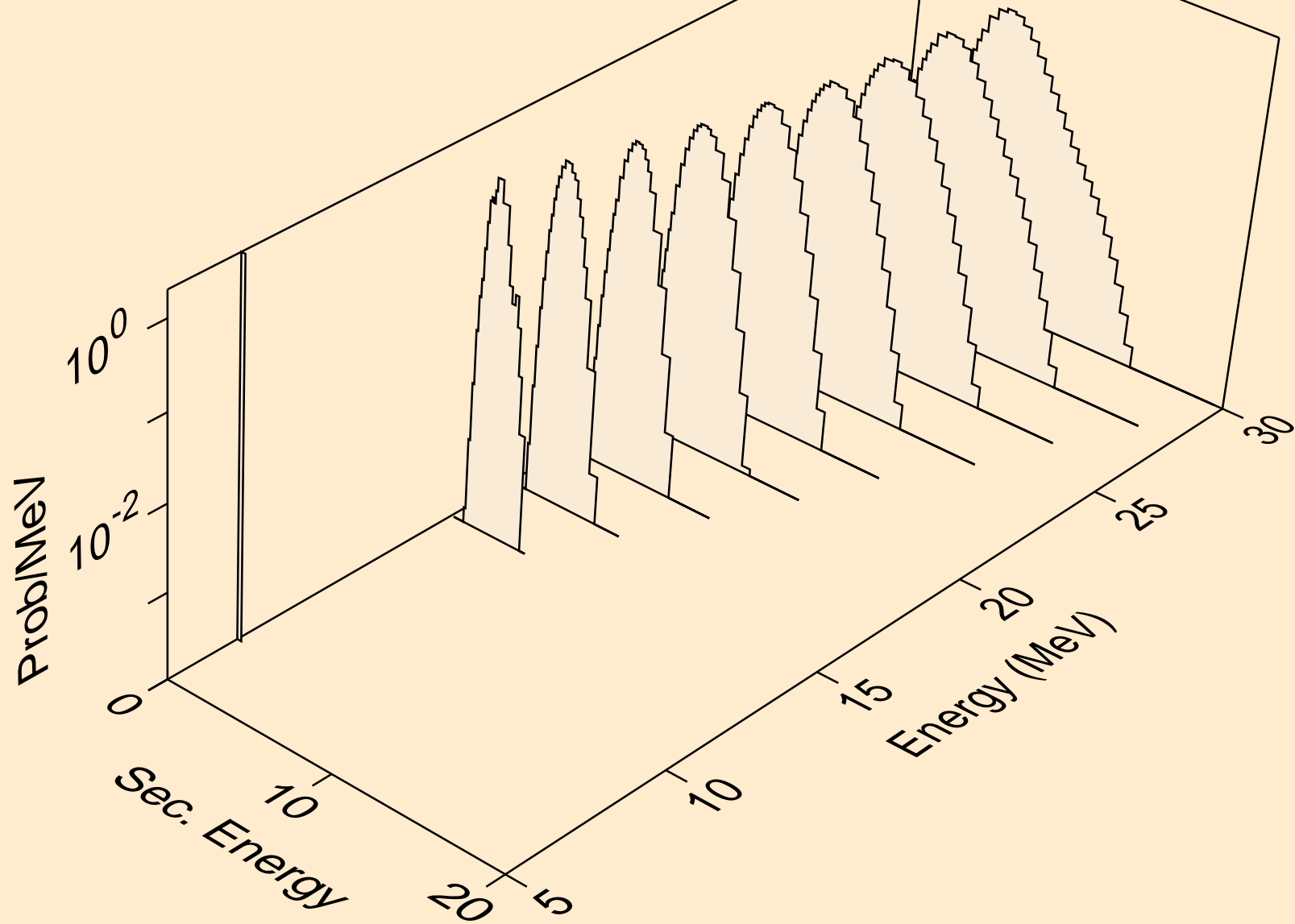


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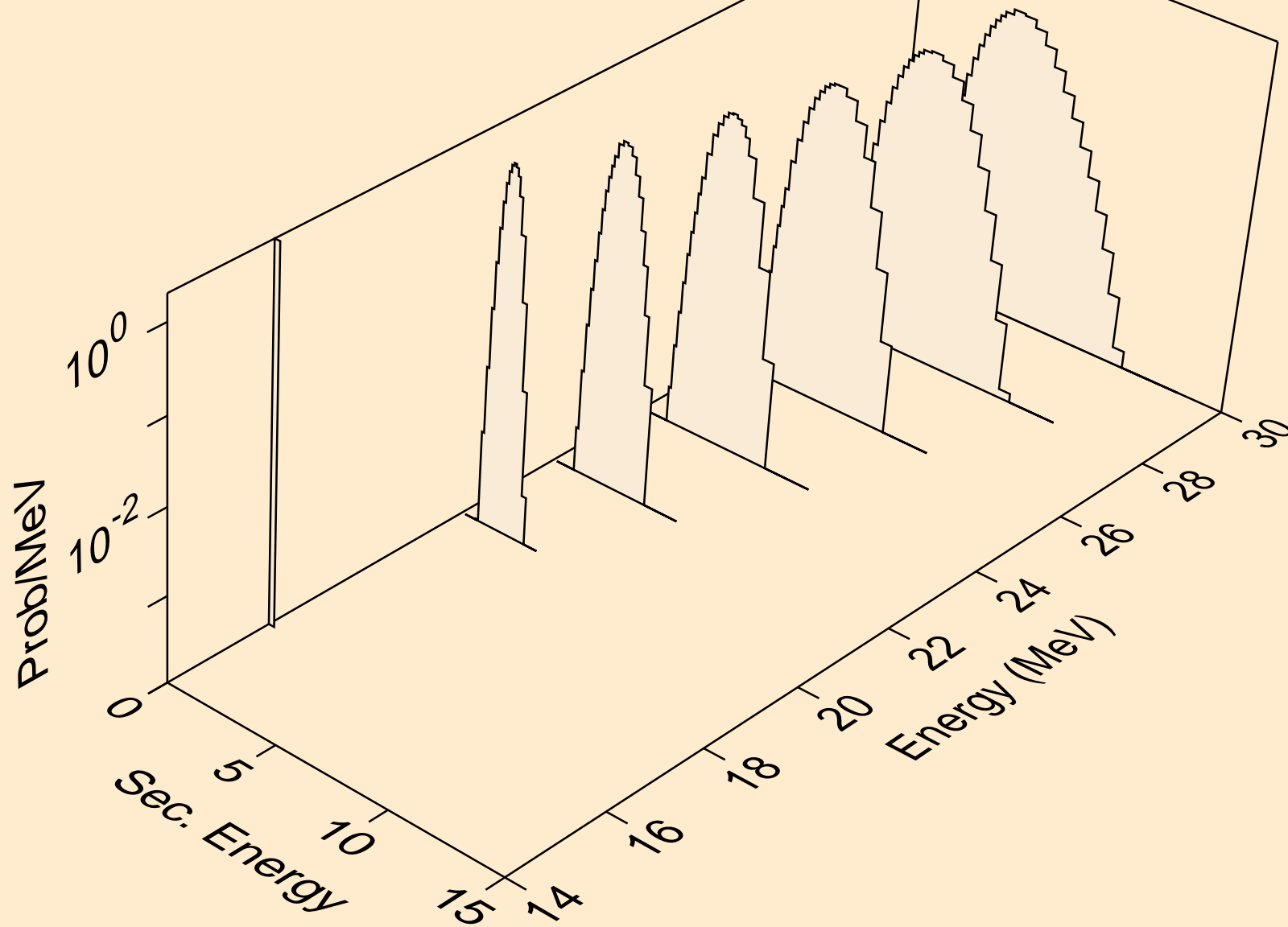




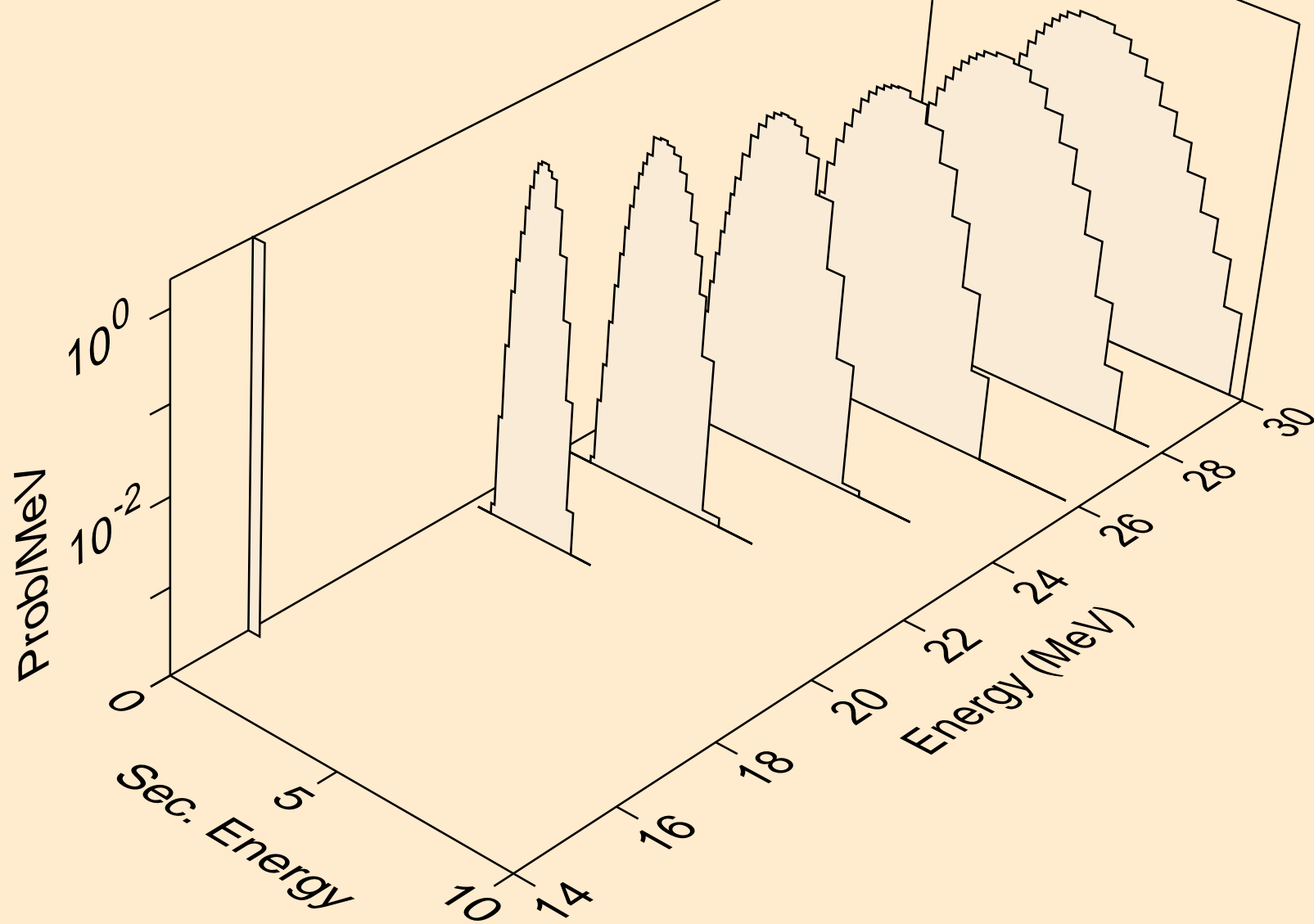
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protons from (n,p)



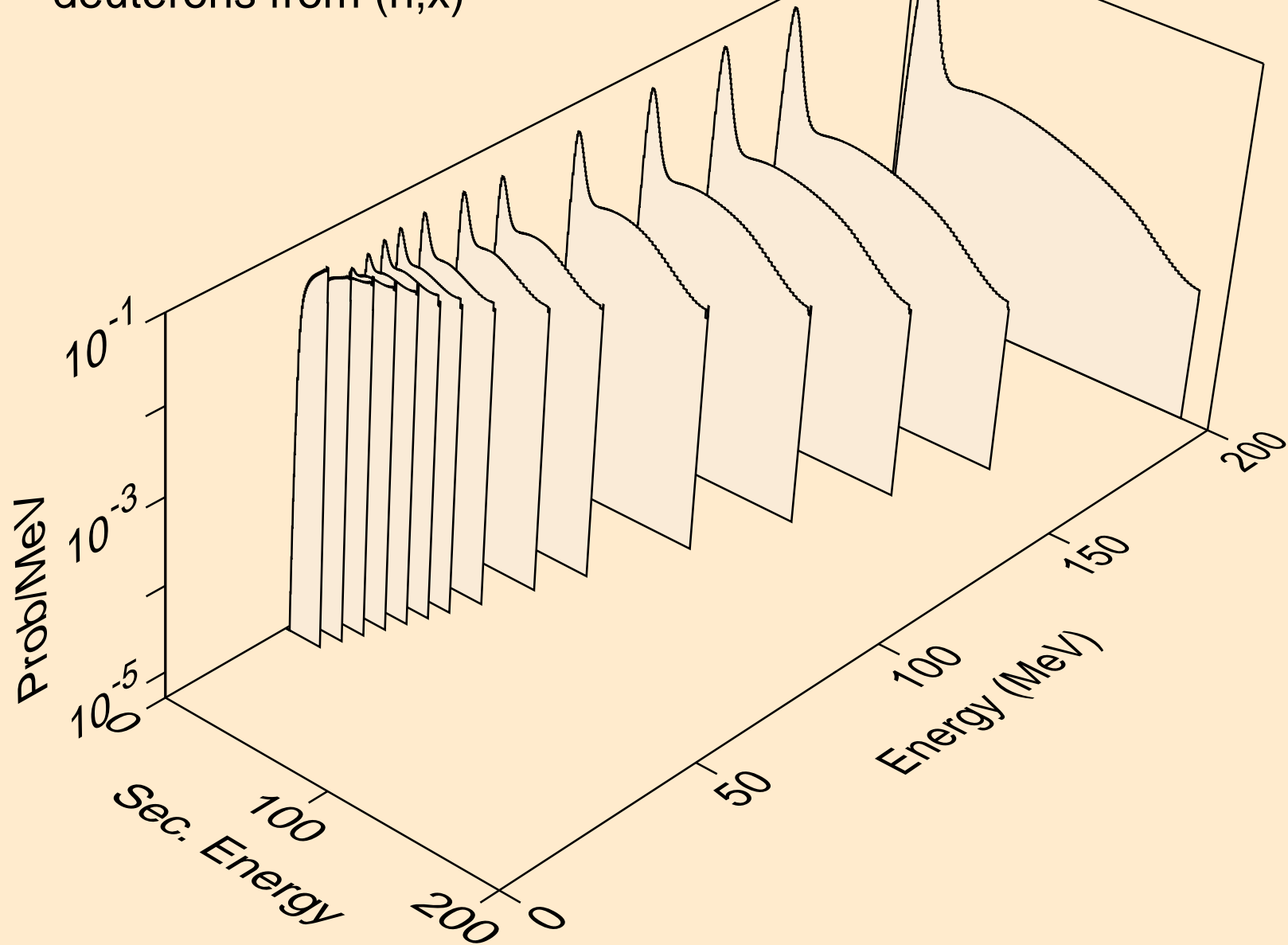
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protons from (n,pd)



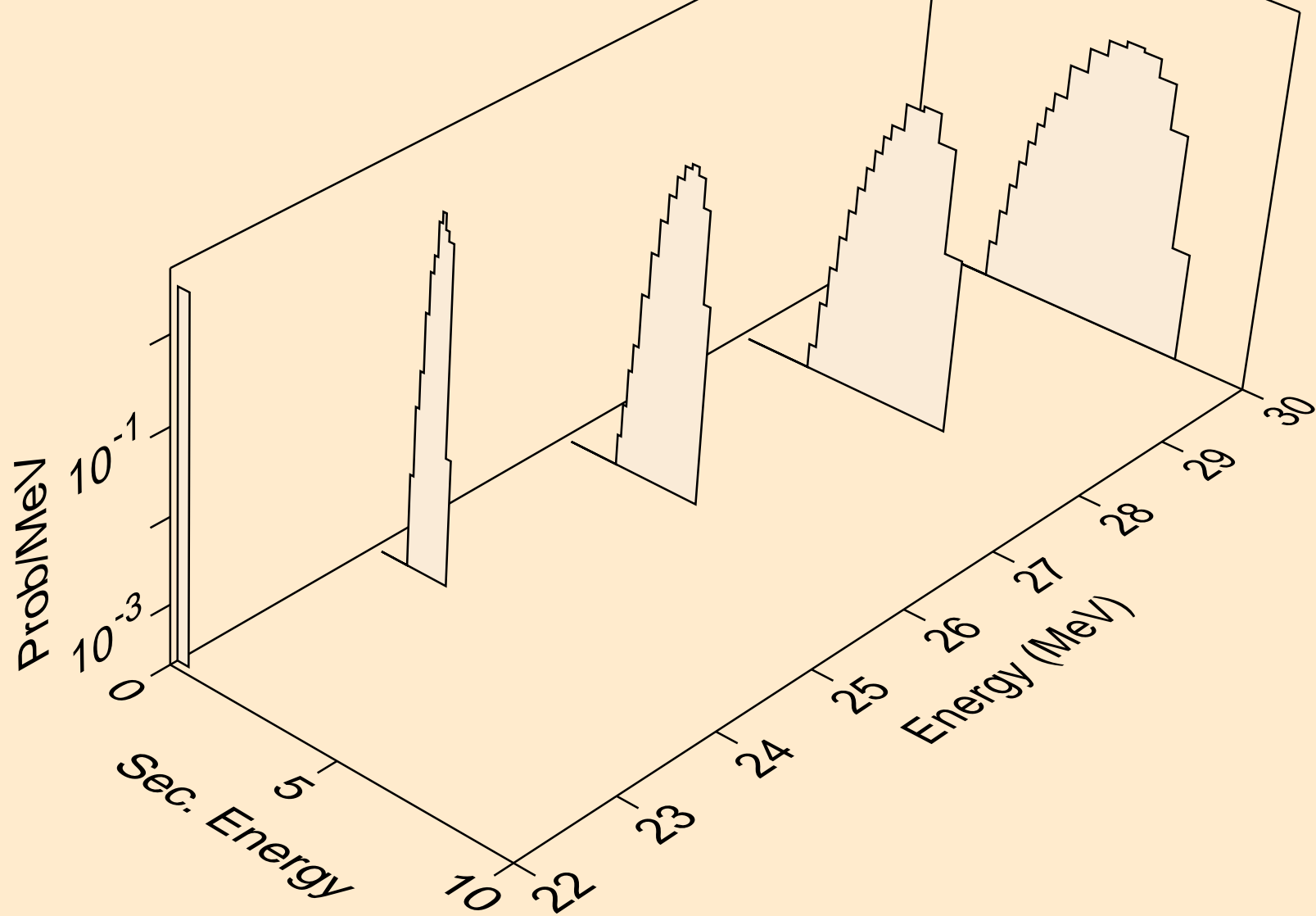
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protons from (n,pt)



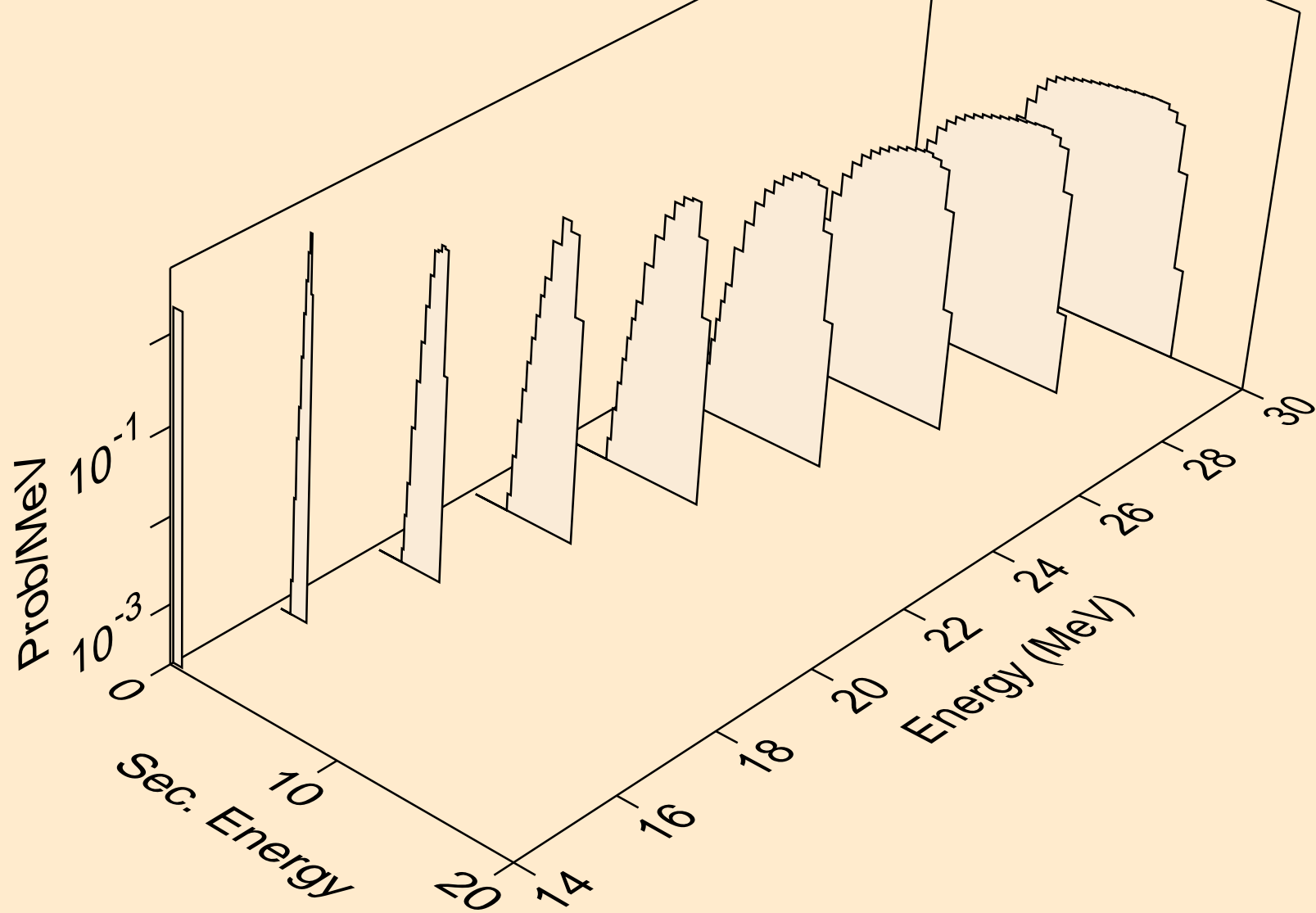
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deuterons from (n,x)



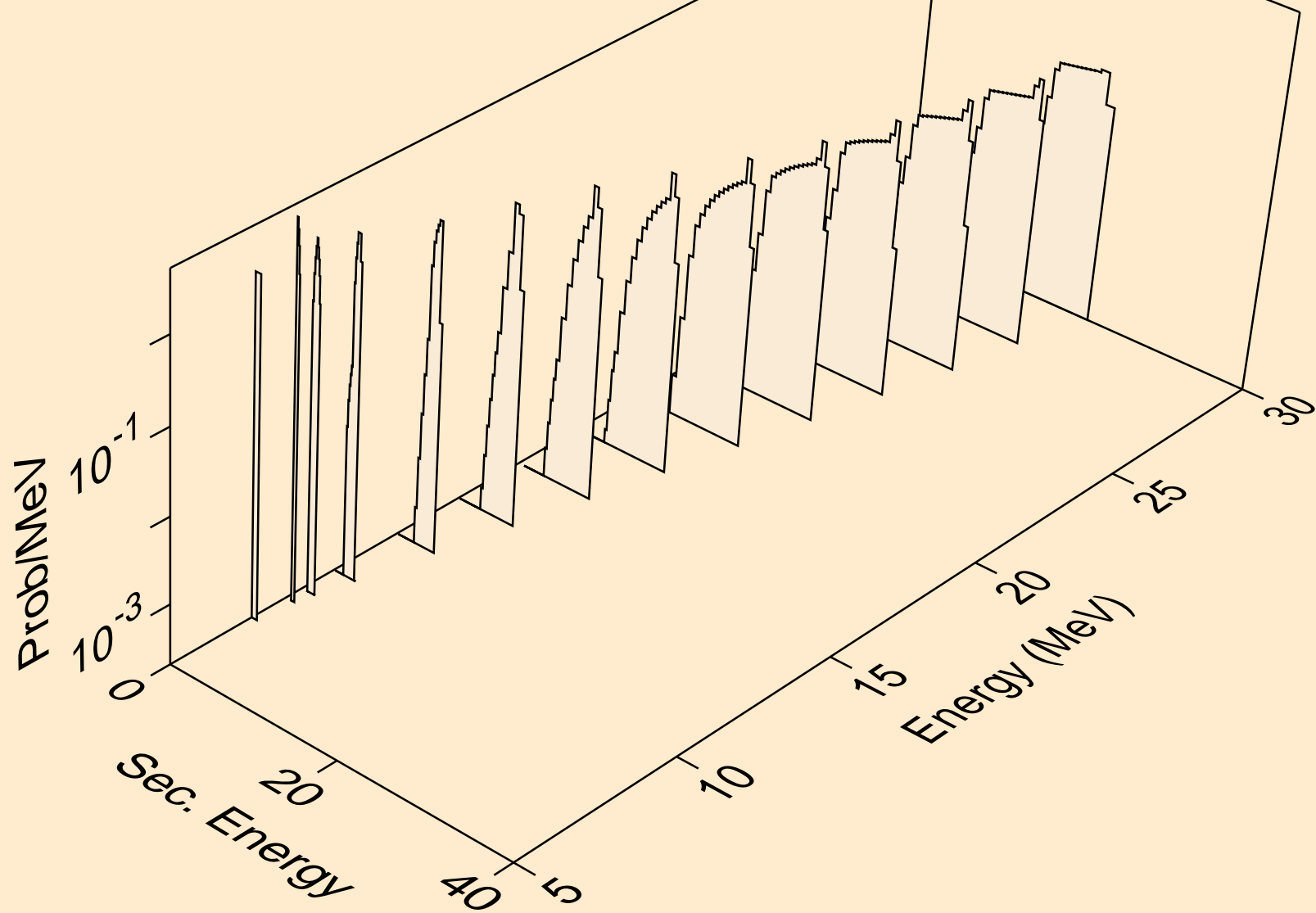
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deuterons from (n,2nd)



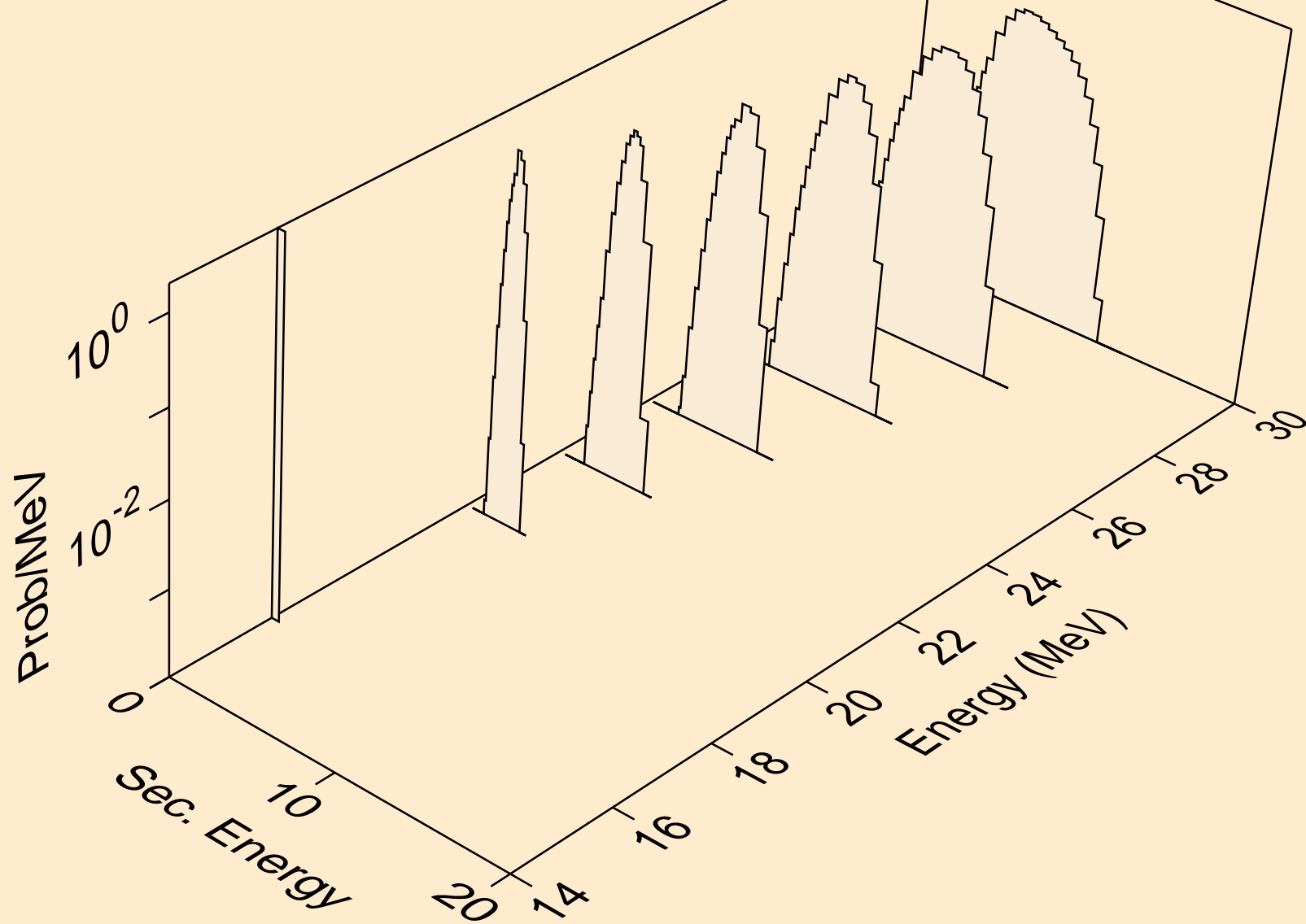
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,n\*)d



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,d)

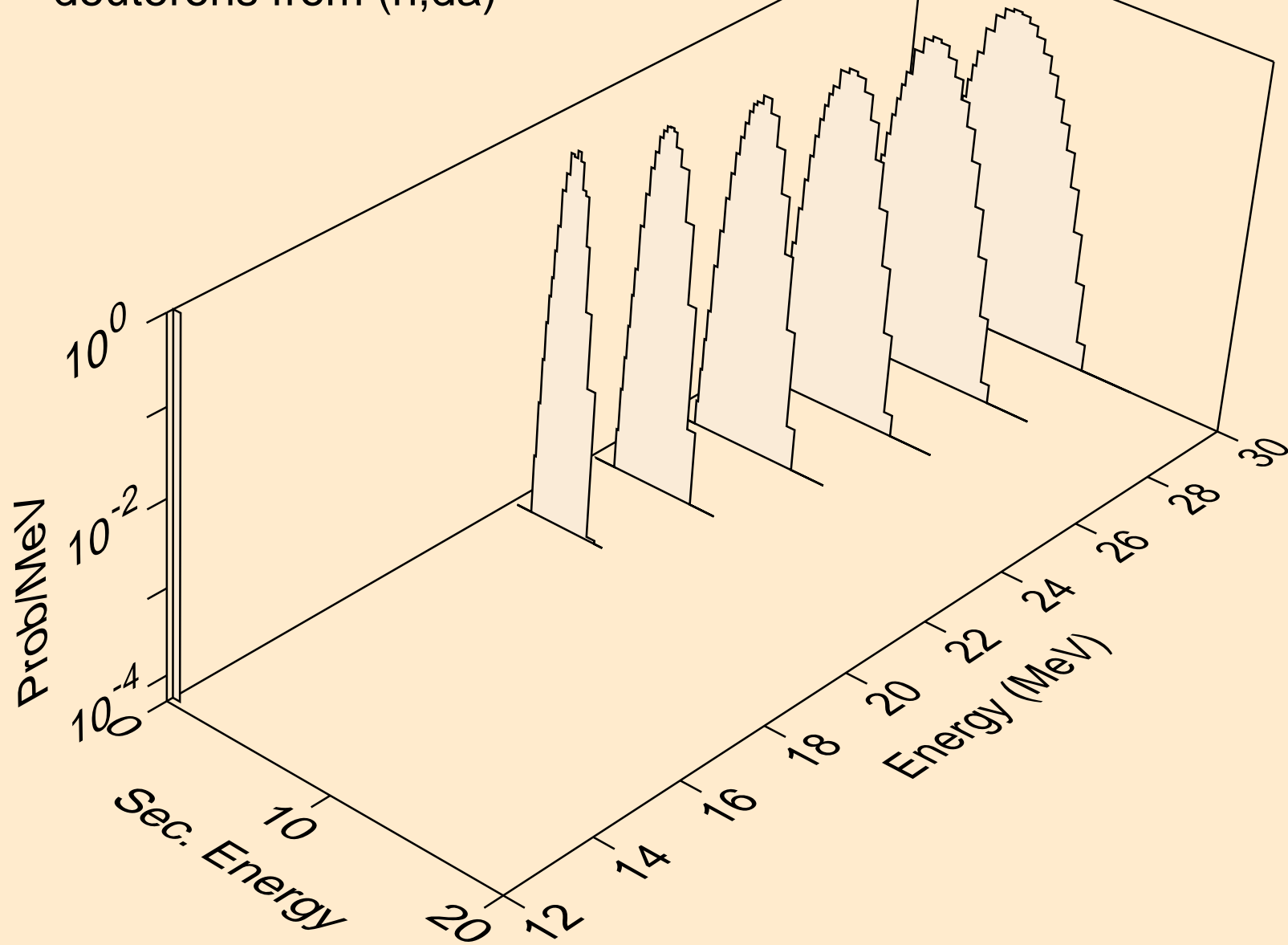


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deuterons from (n,pd)

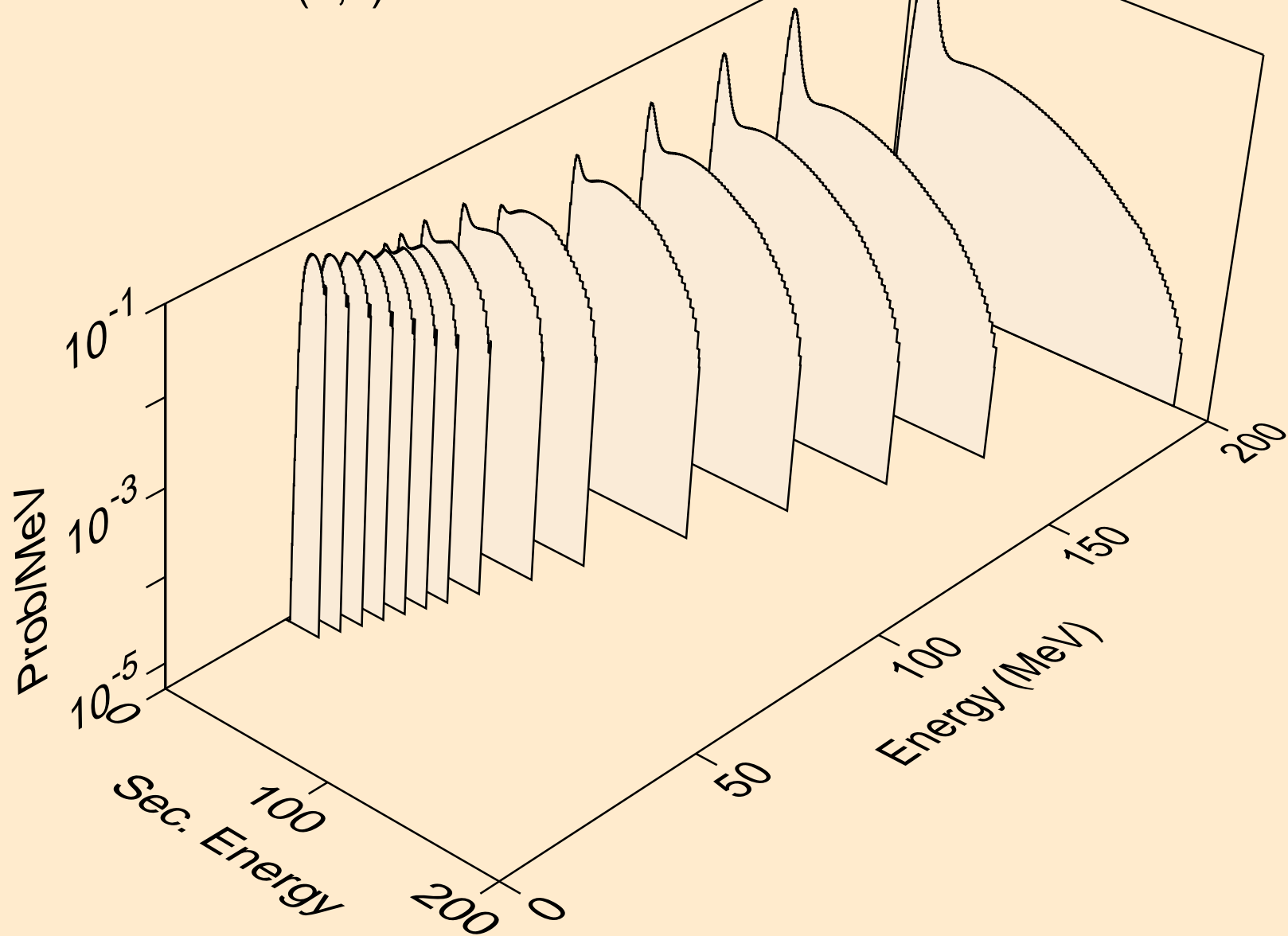




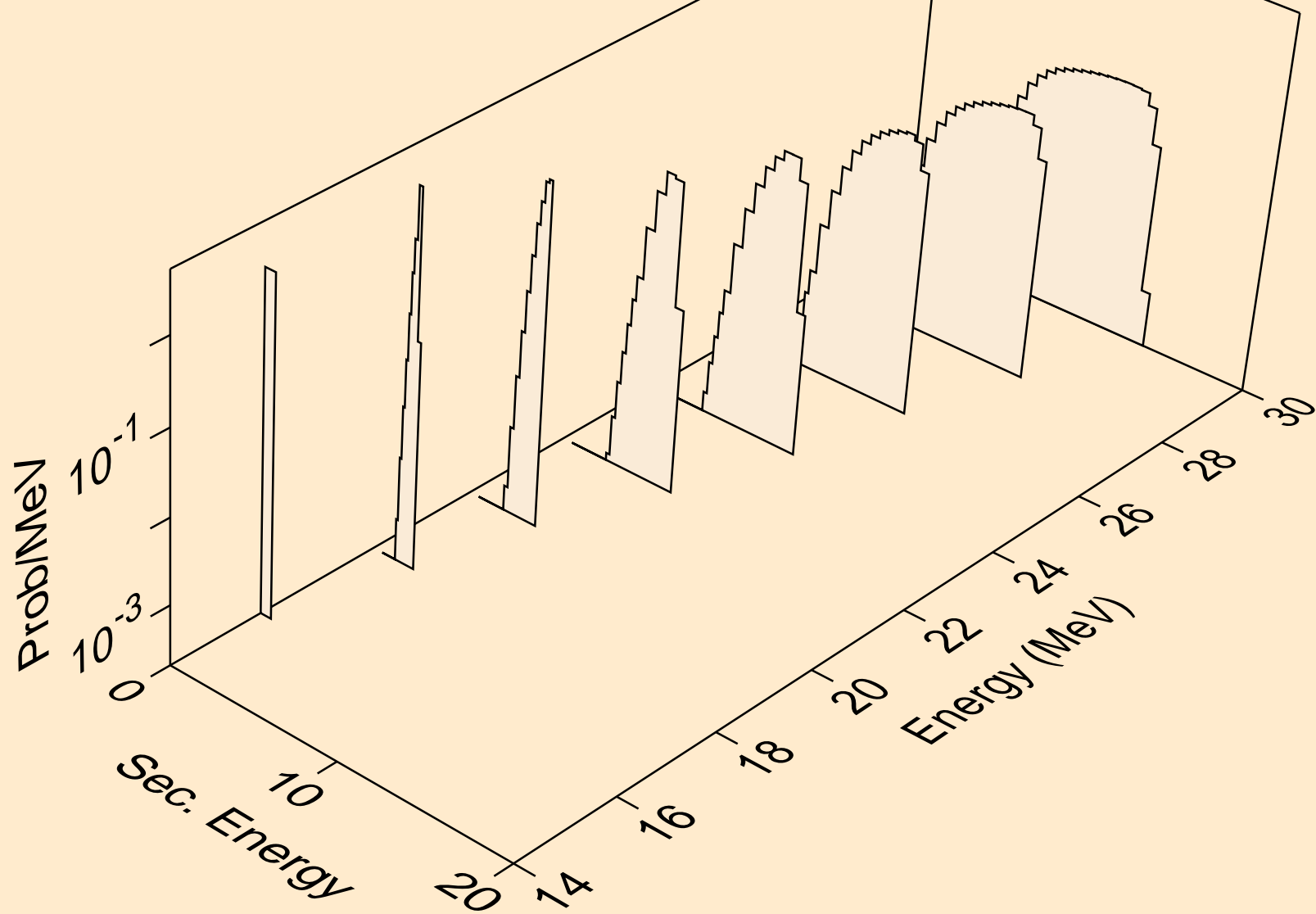
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deuterons from (n,da)



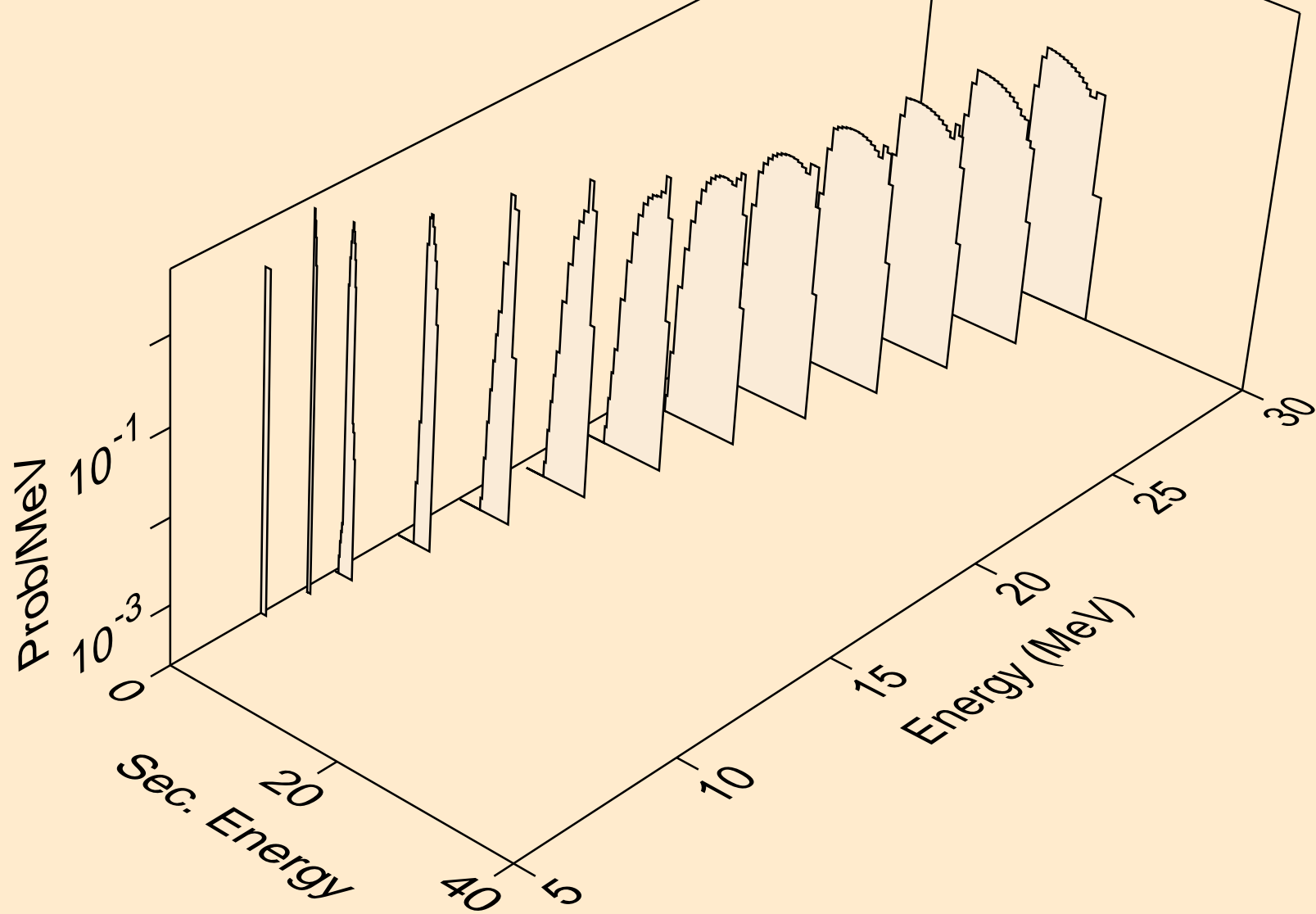
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,x)



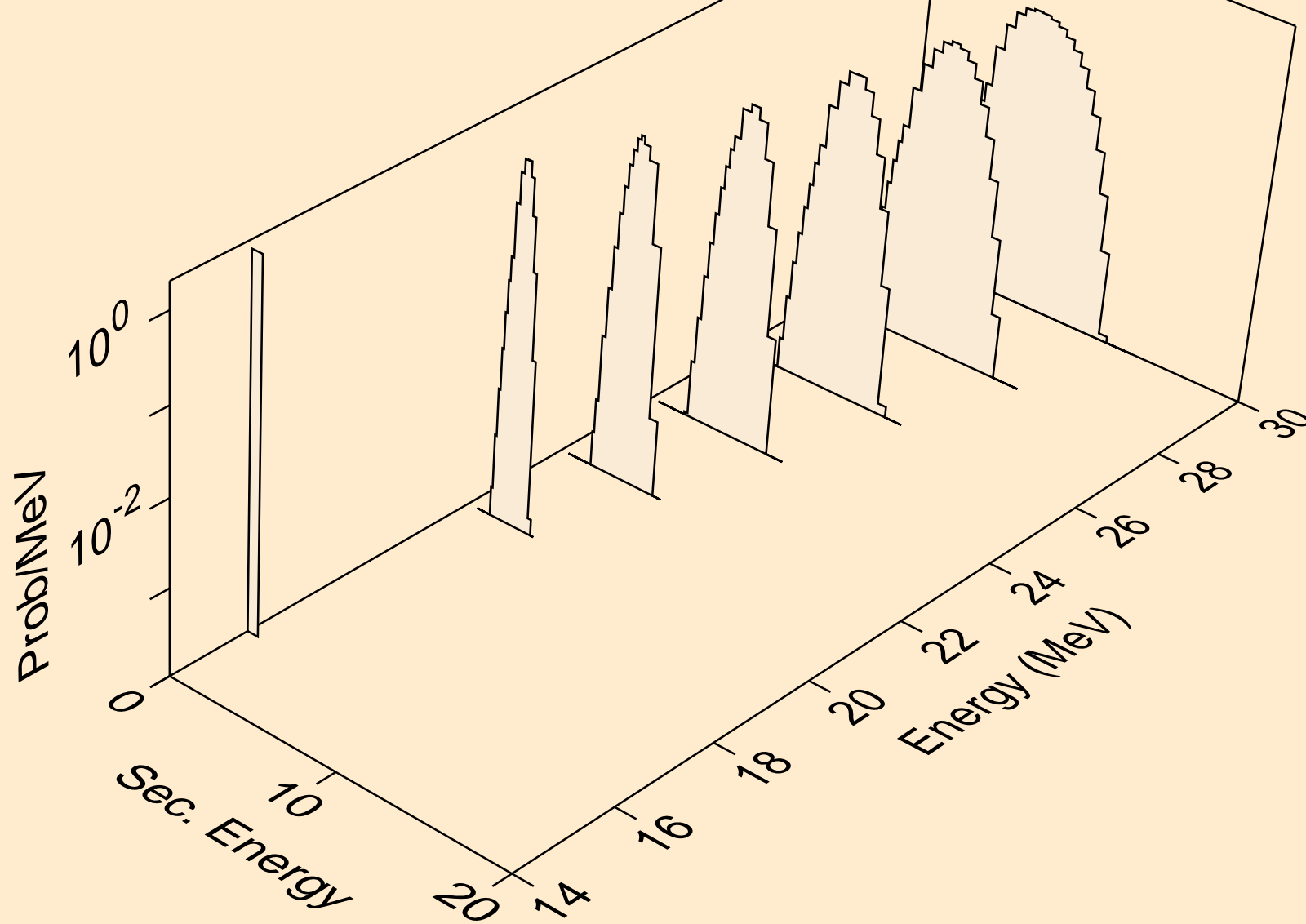
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (n,n\*)t



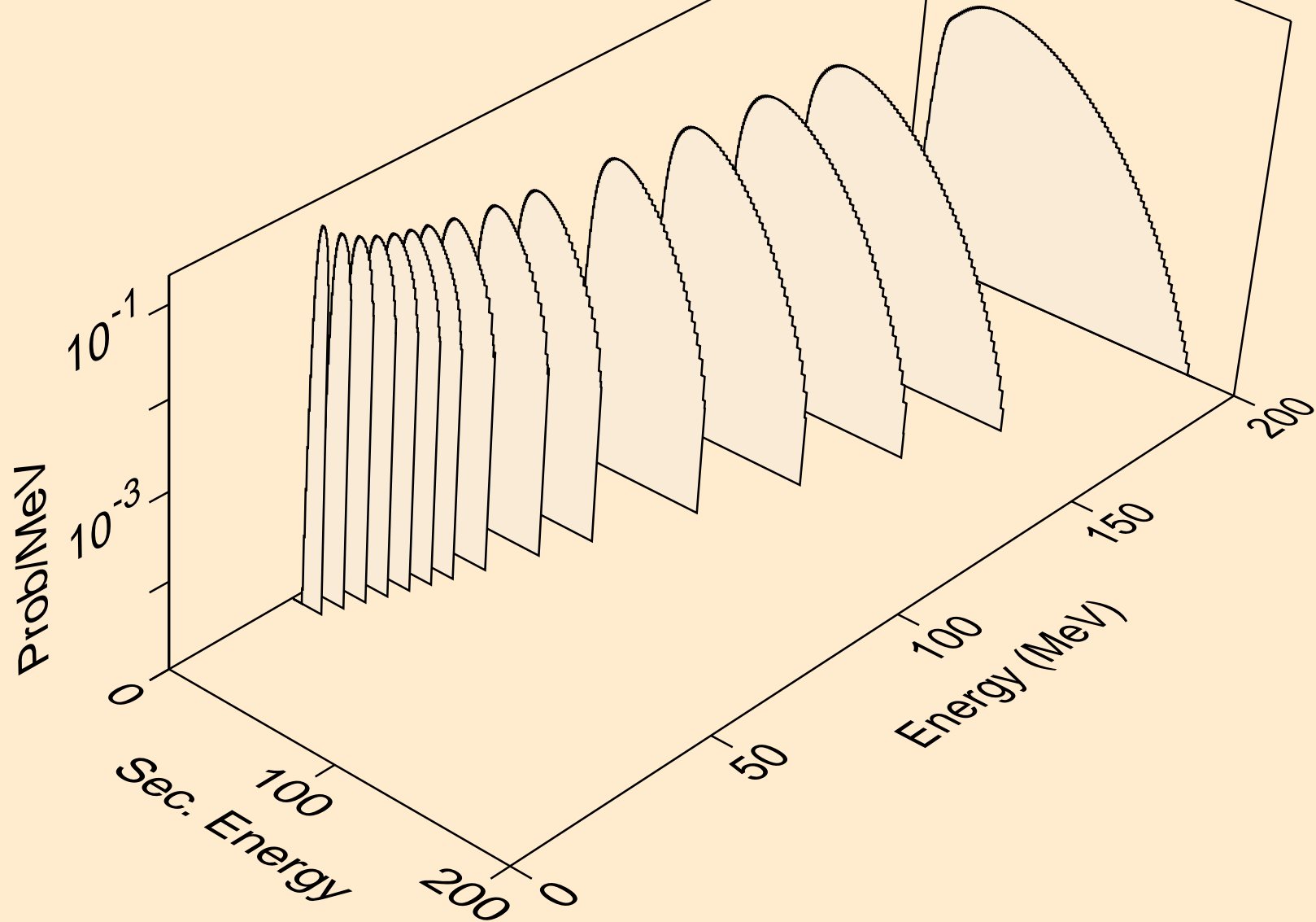
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tritons from (n,t)



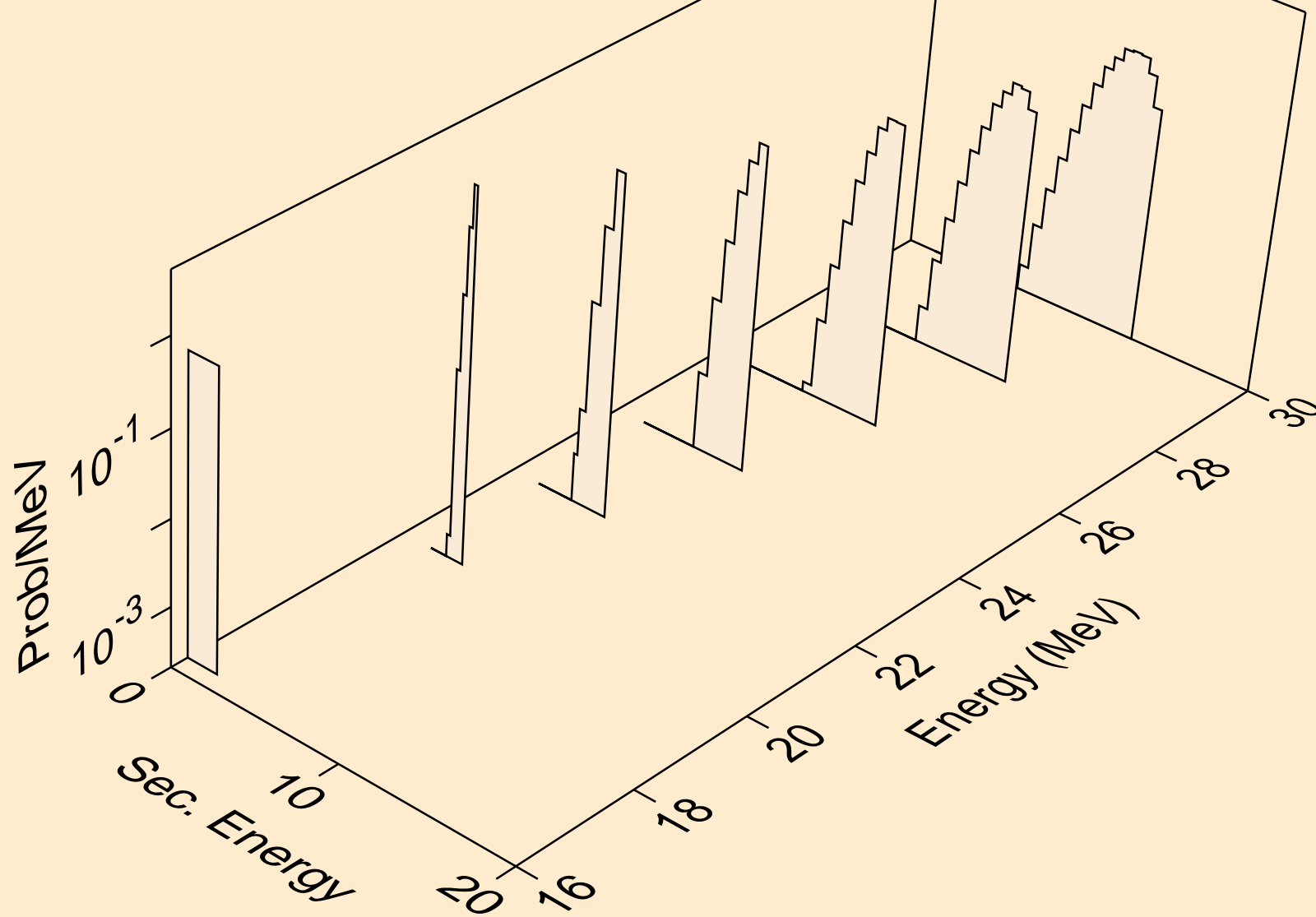
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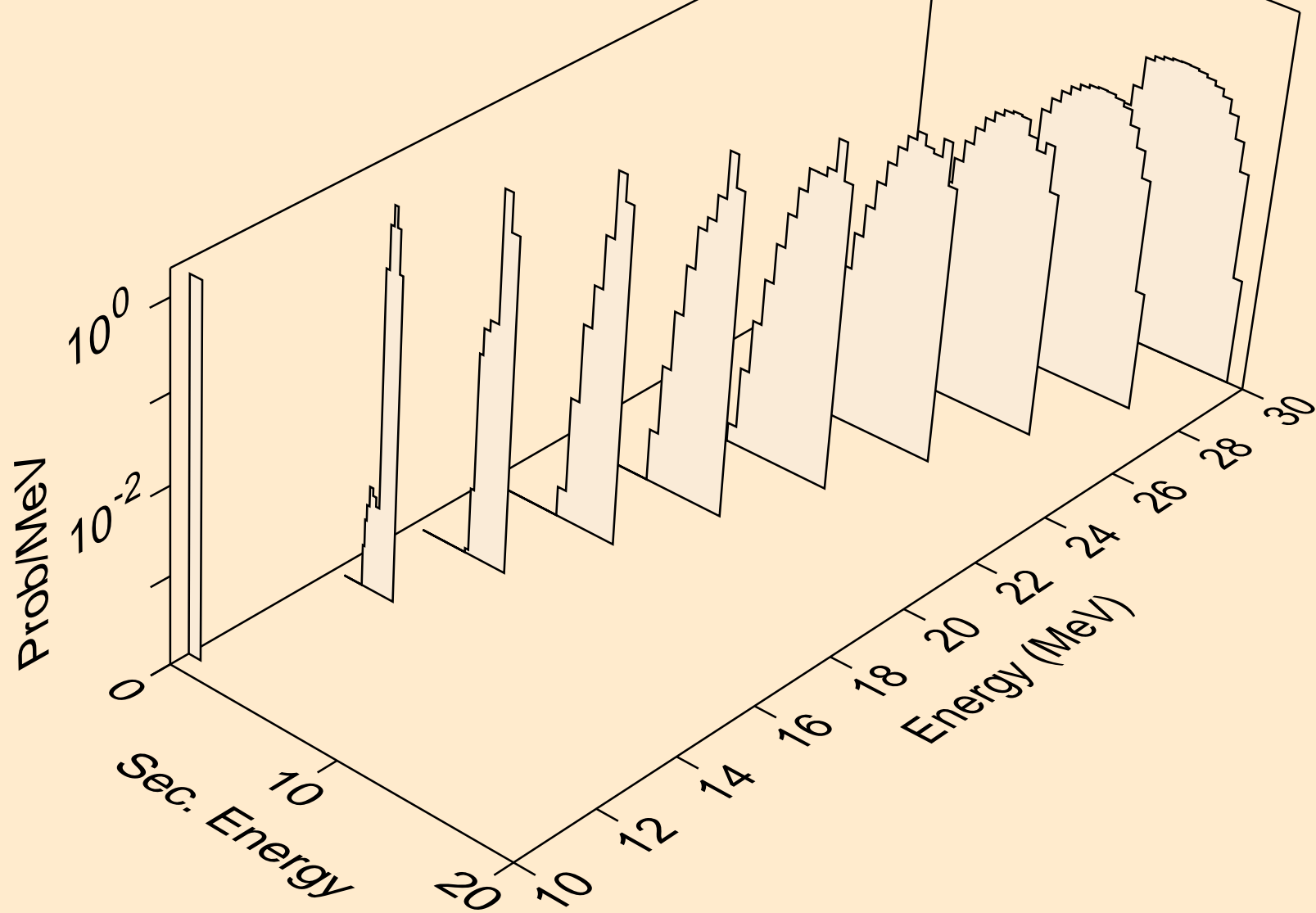
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,x)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3

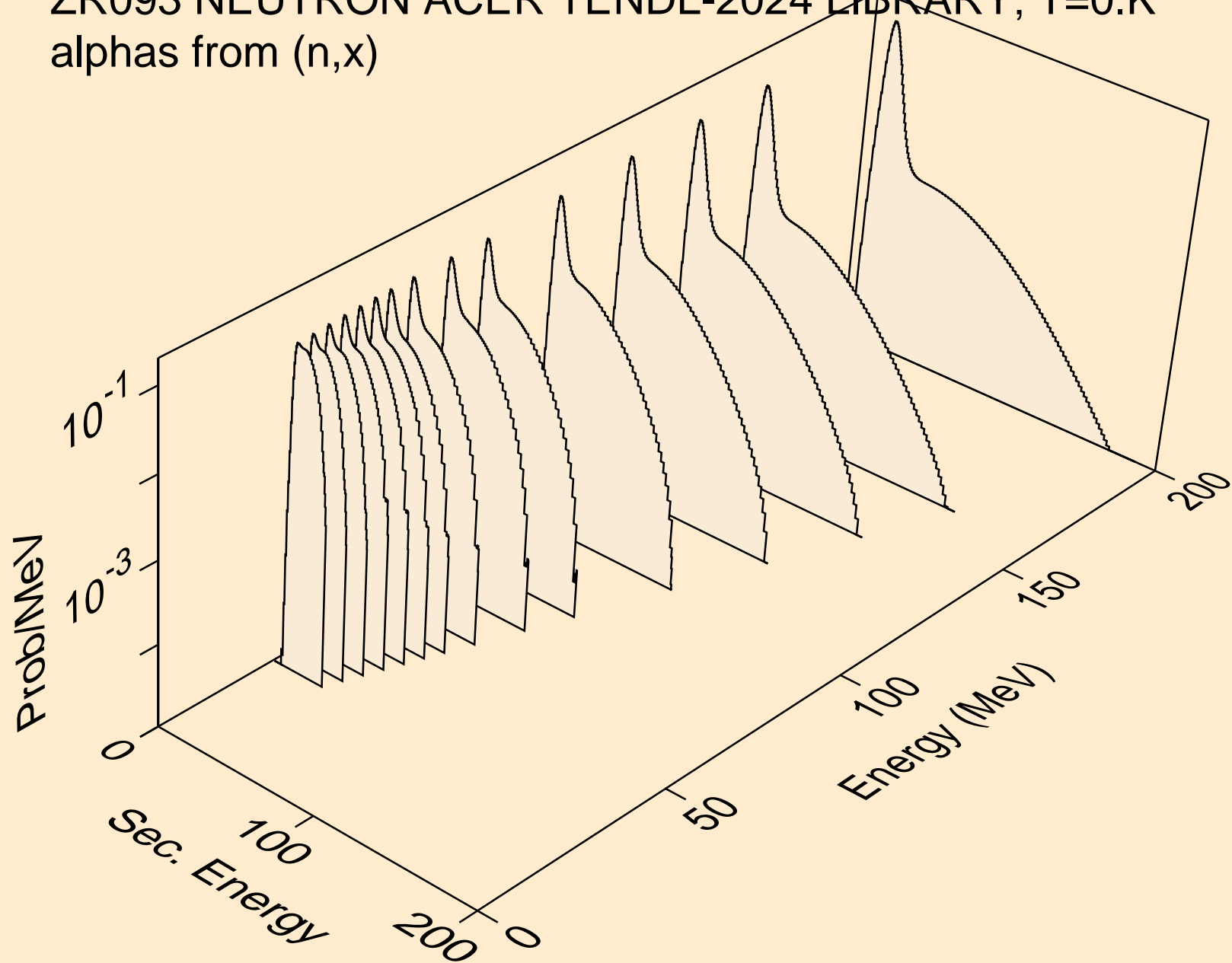


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he3s from (n,he3)

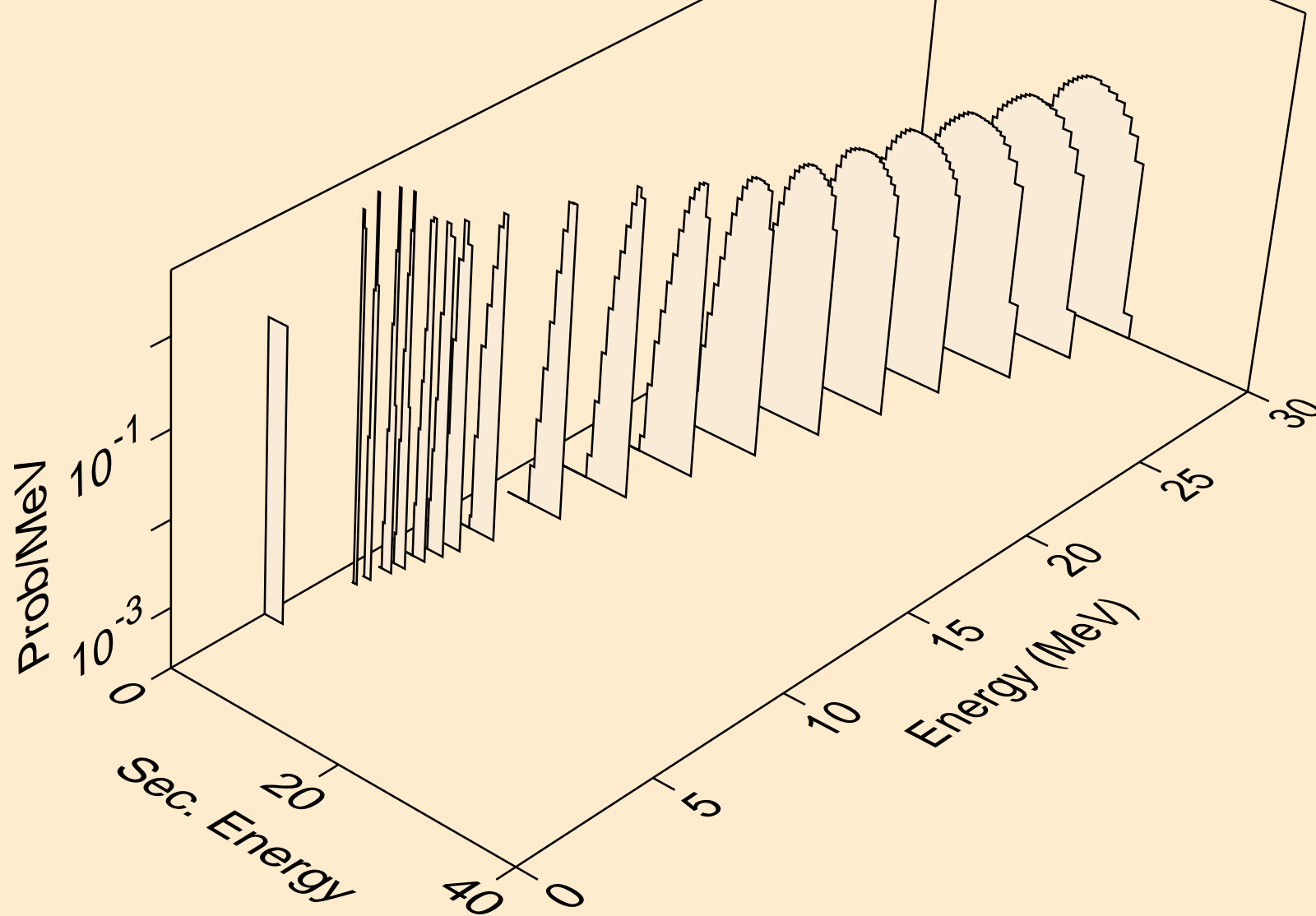




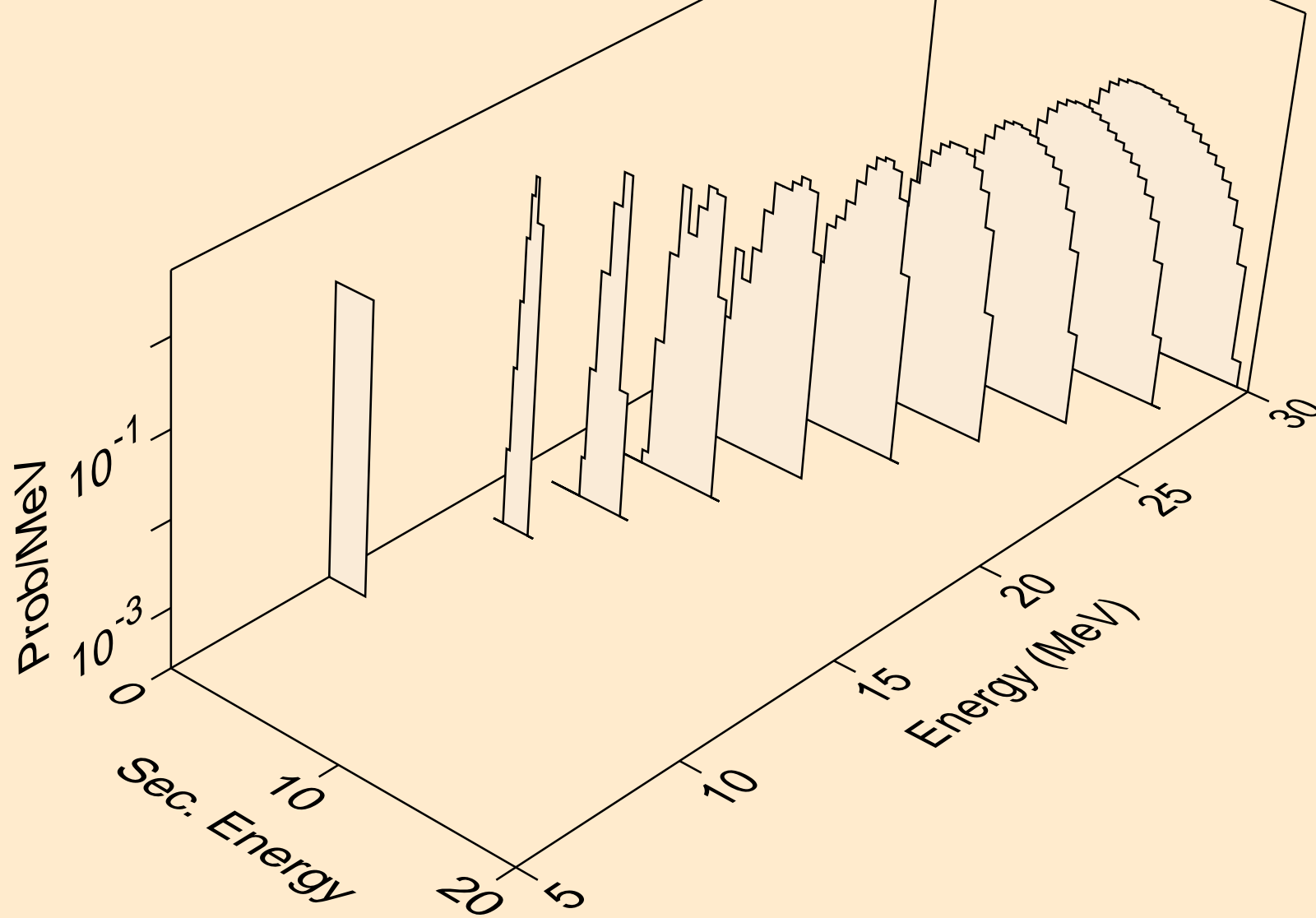
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)



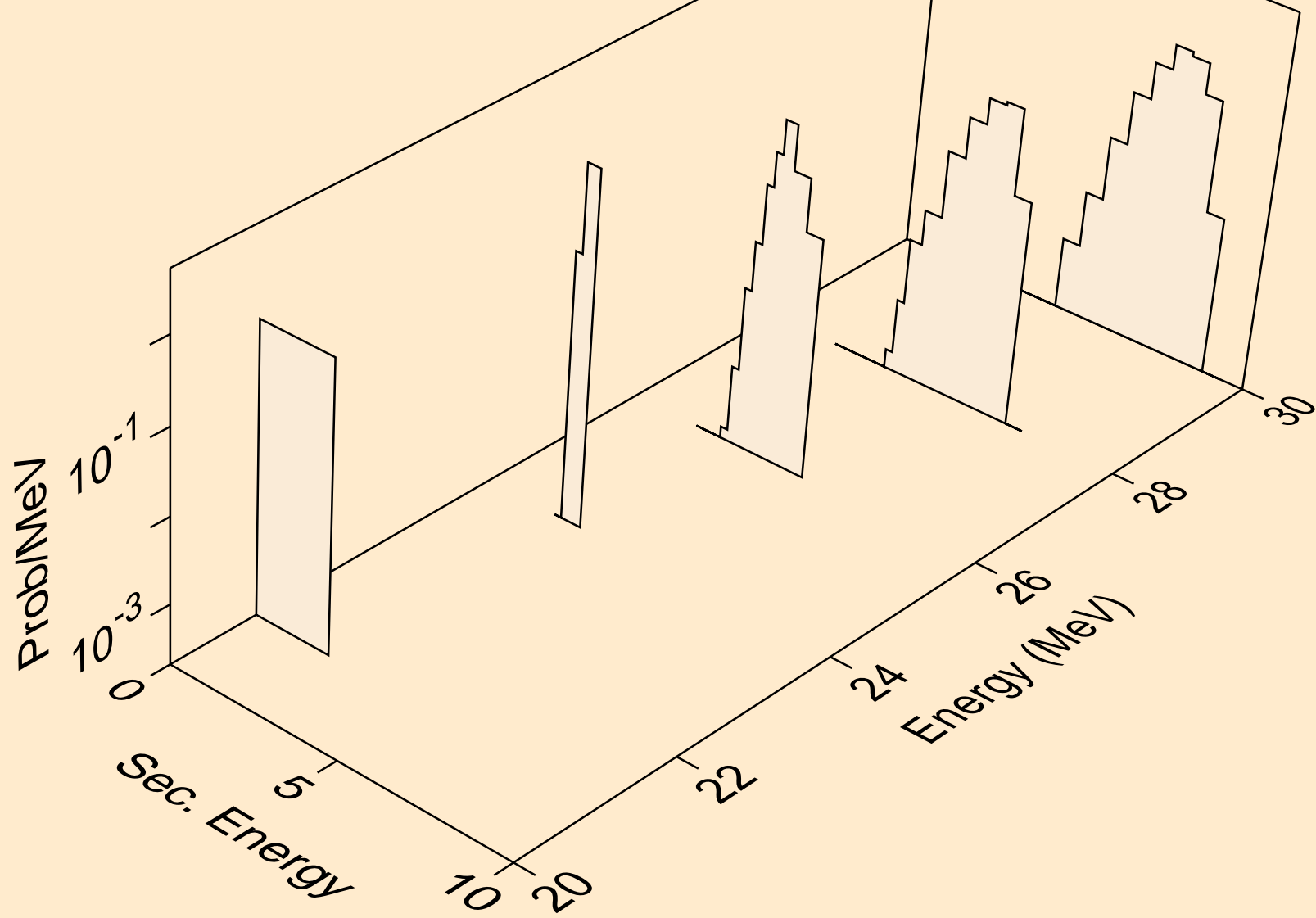
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a



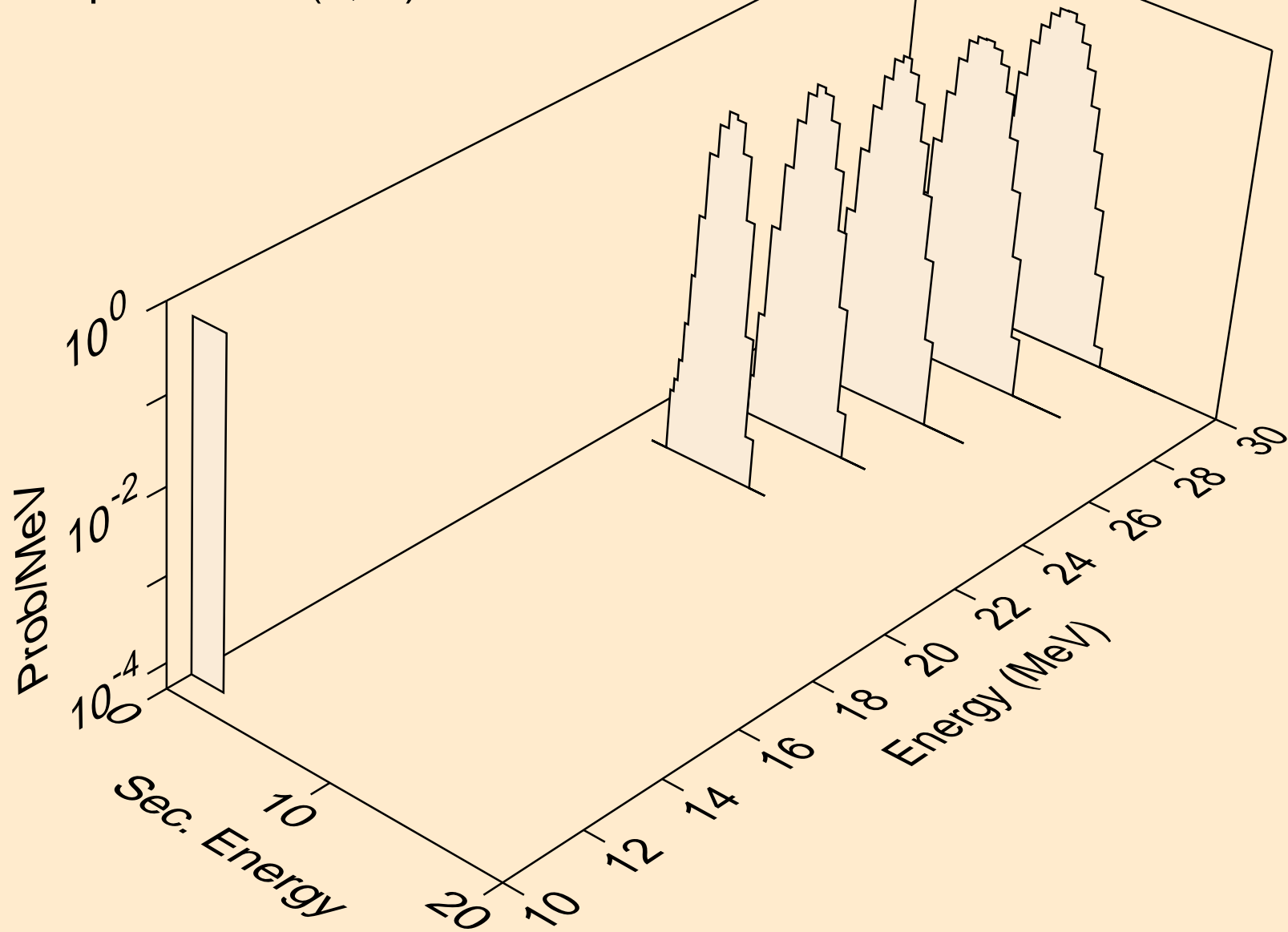
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



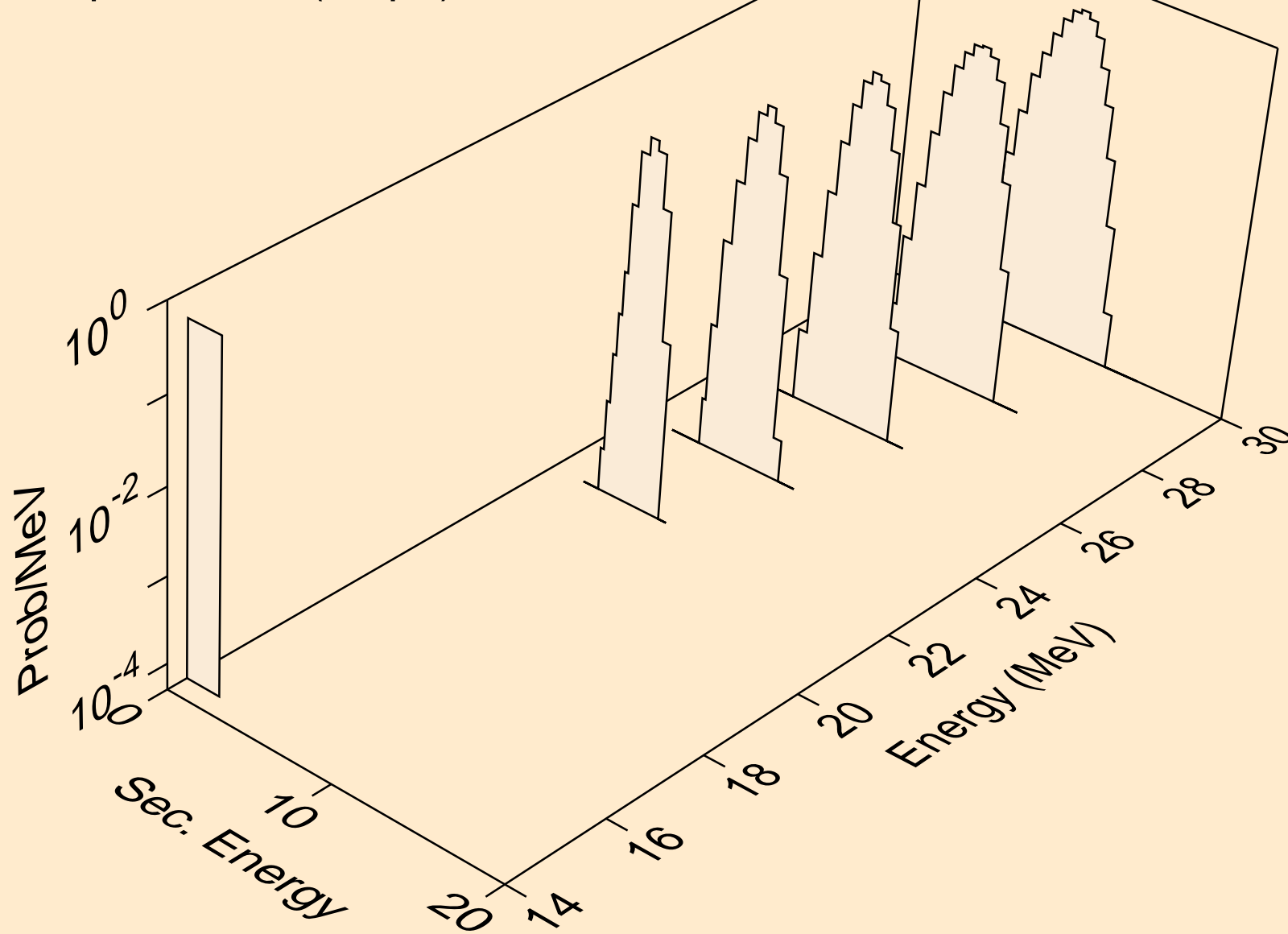
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



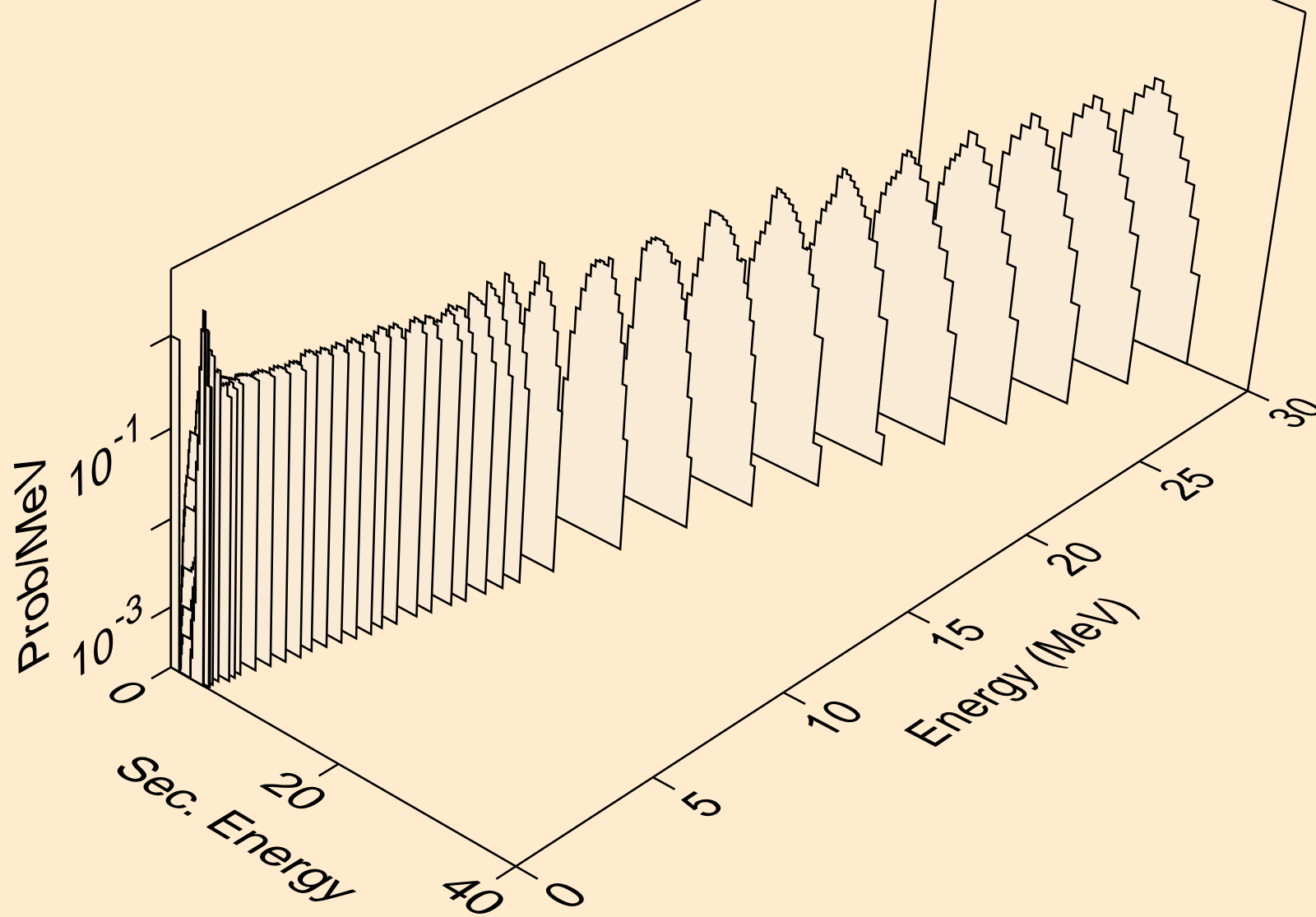
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a



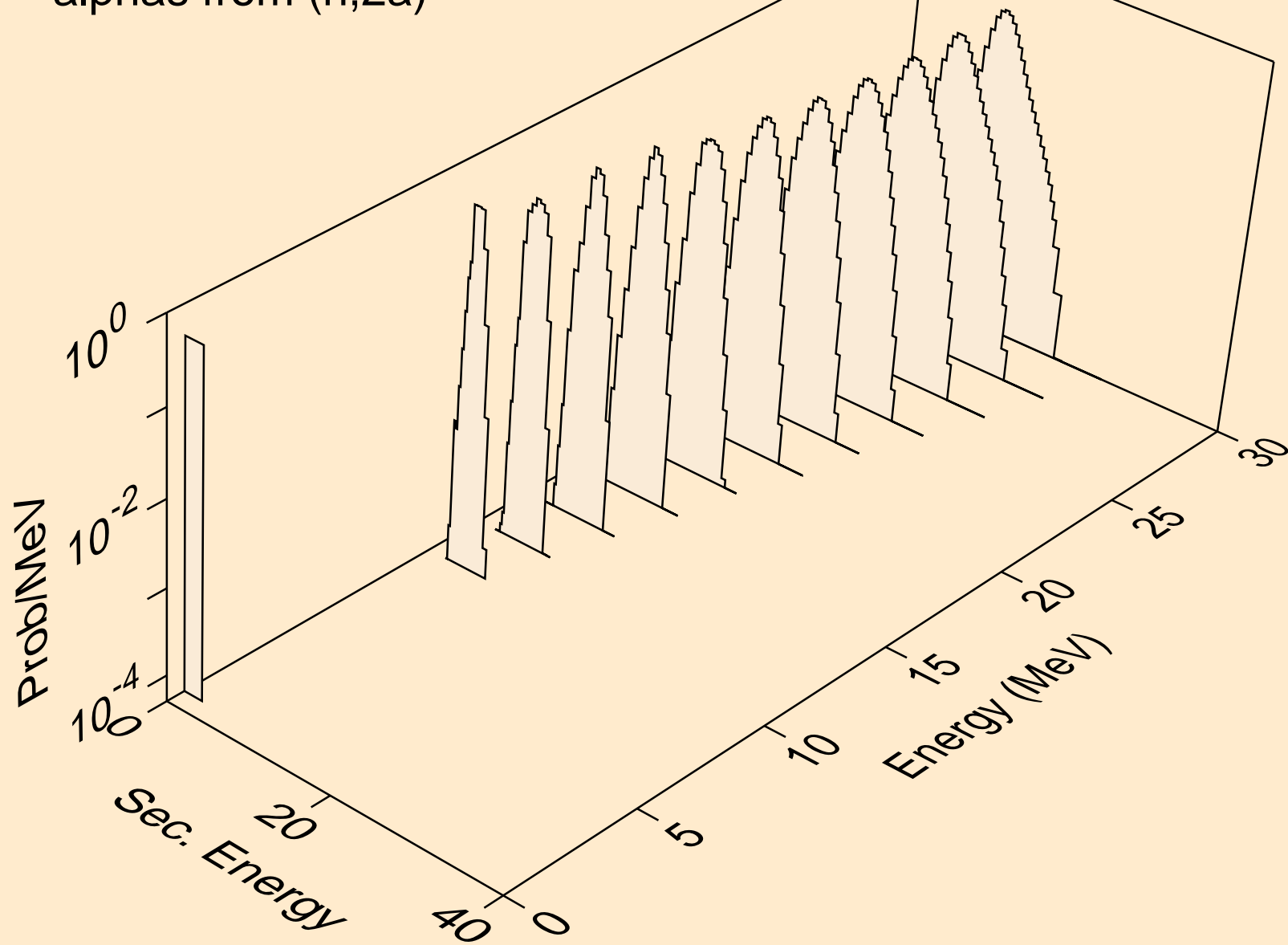
ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)

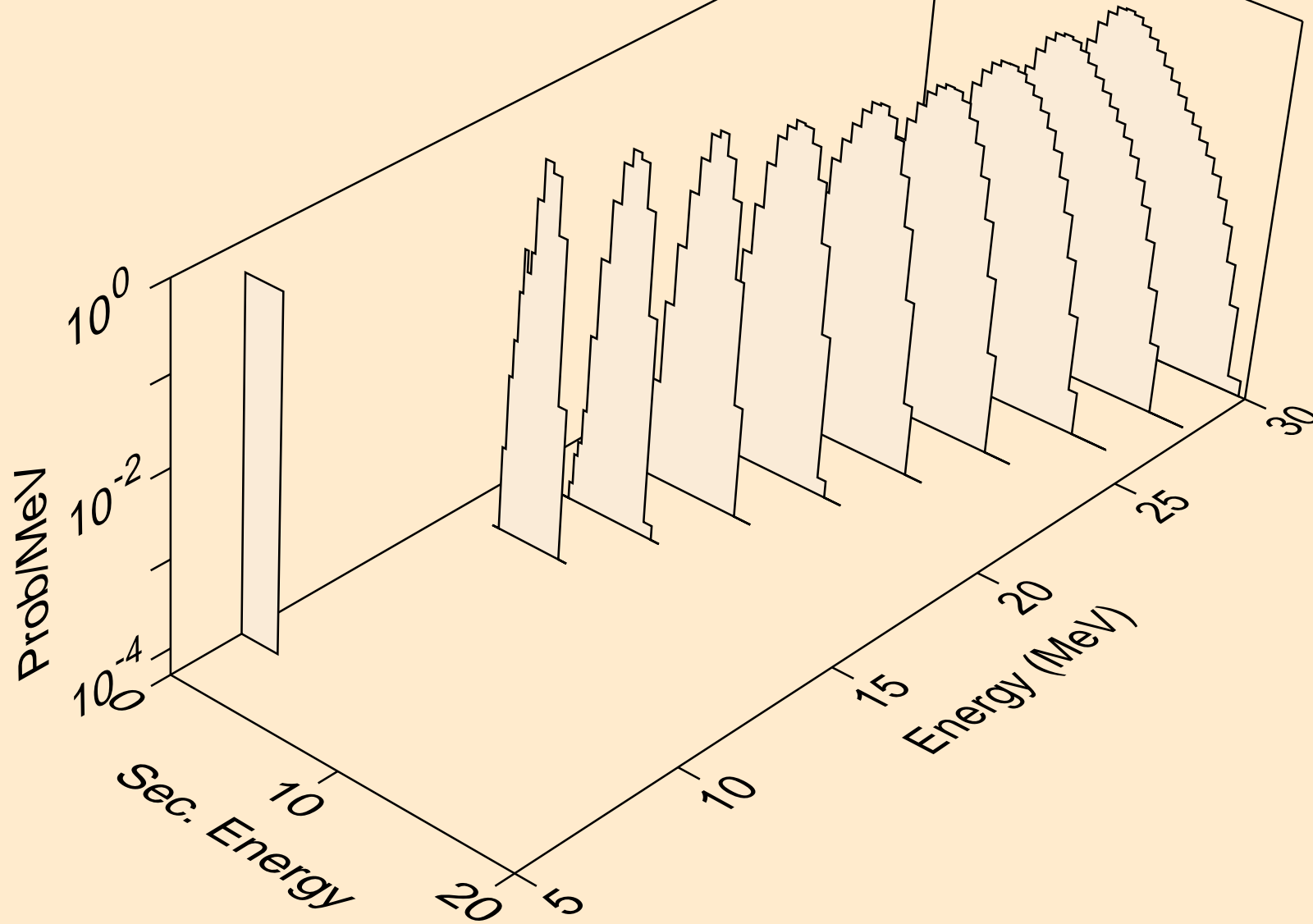


ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)





ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



ZR093 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

