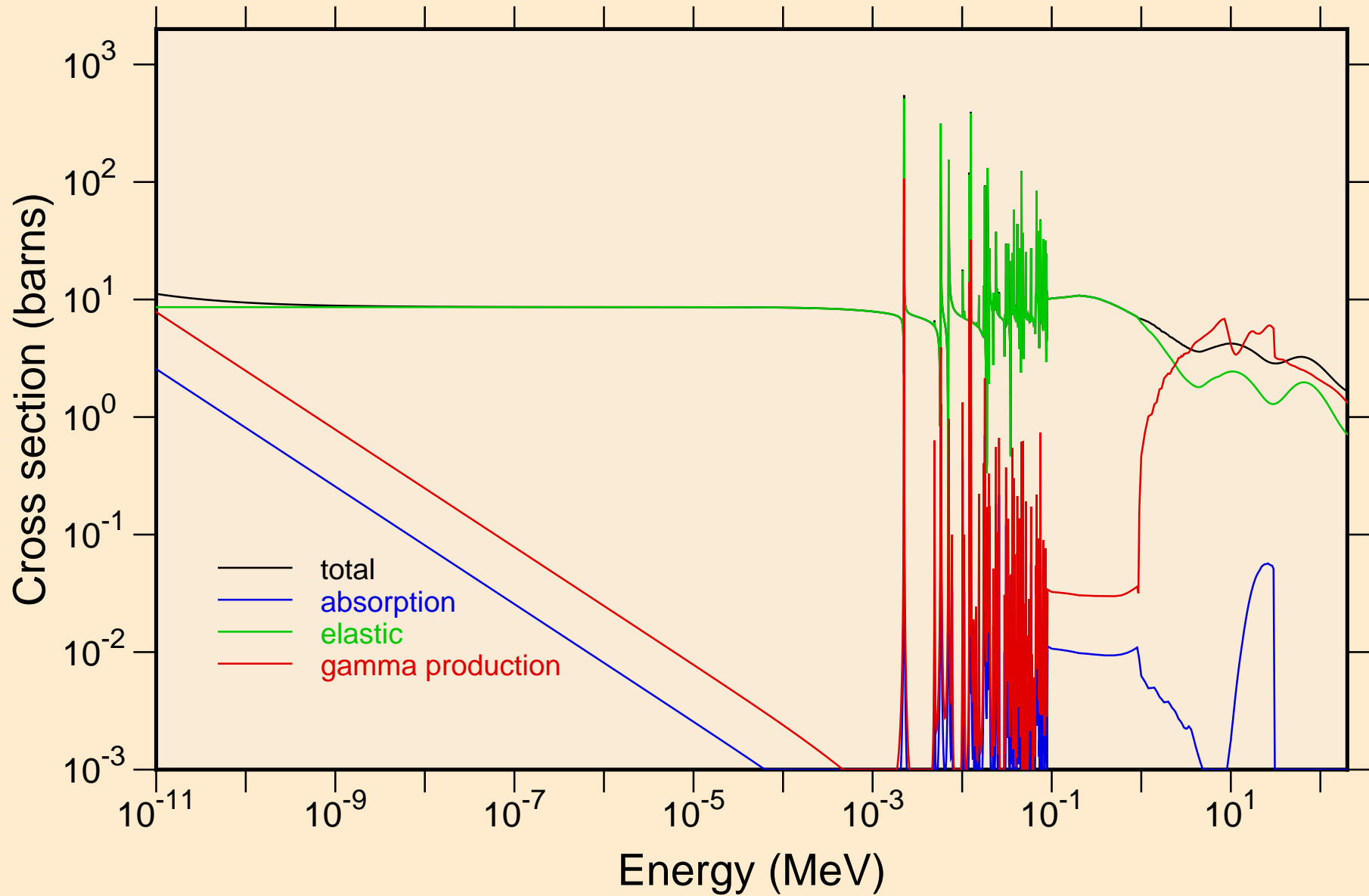
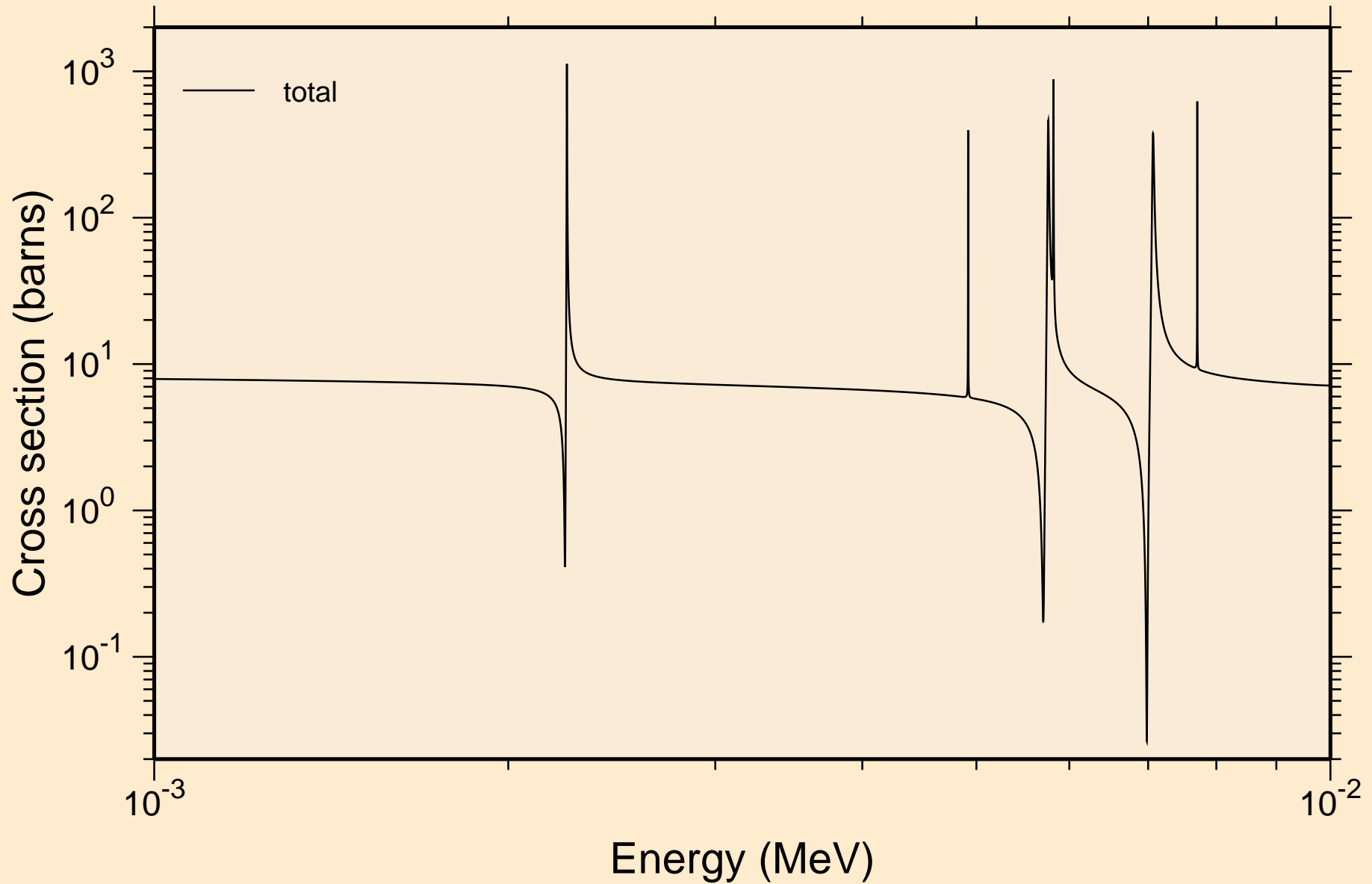


# ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

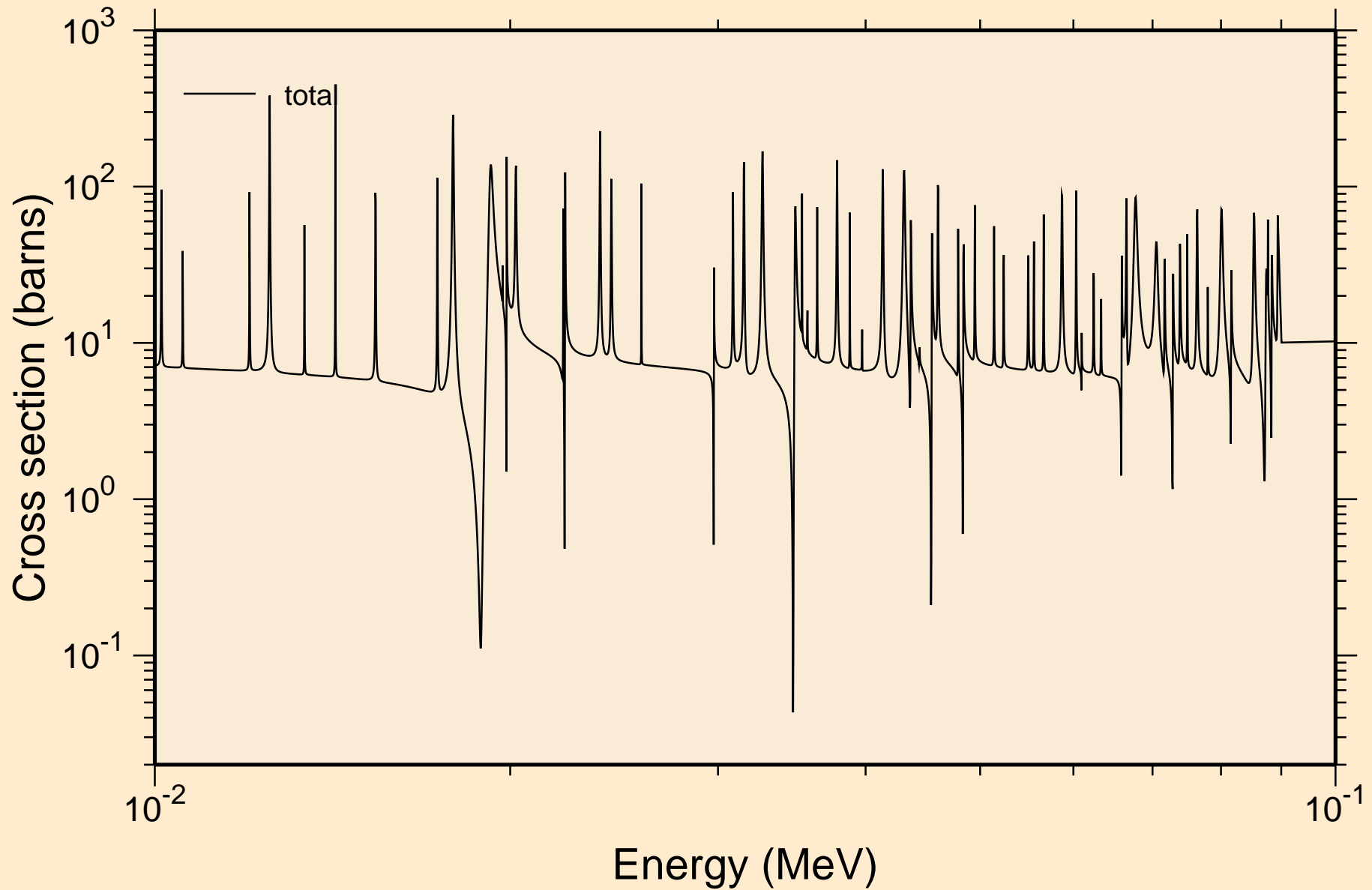
## Principal cross sections



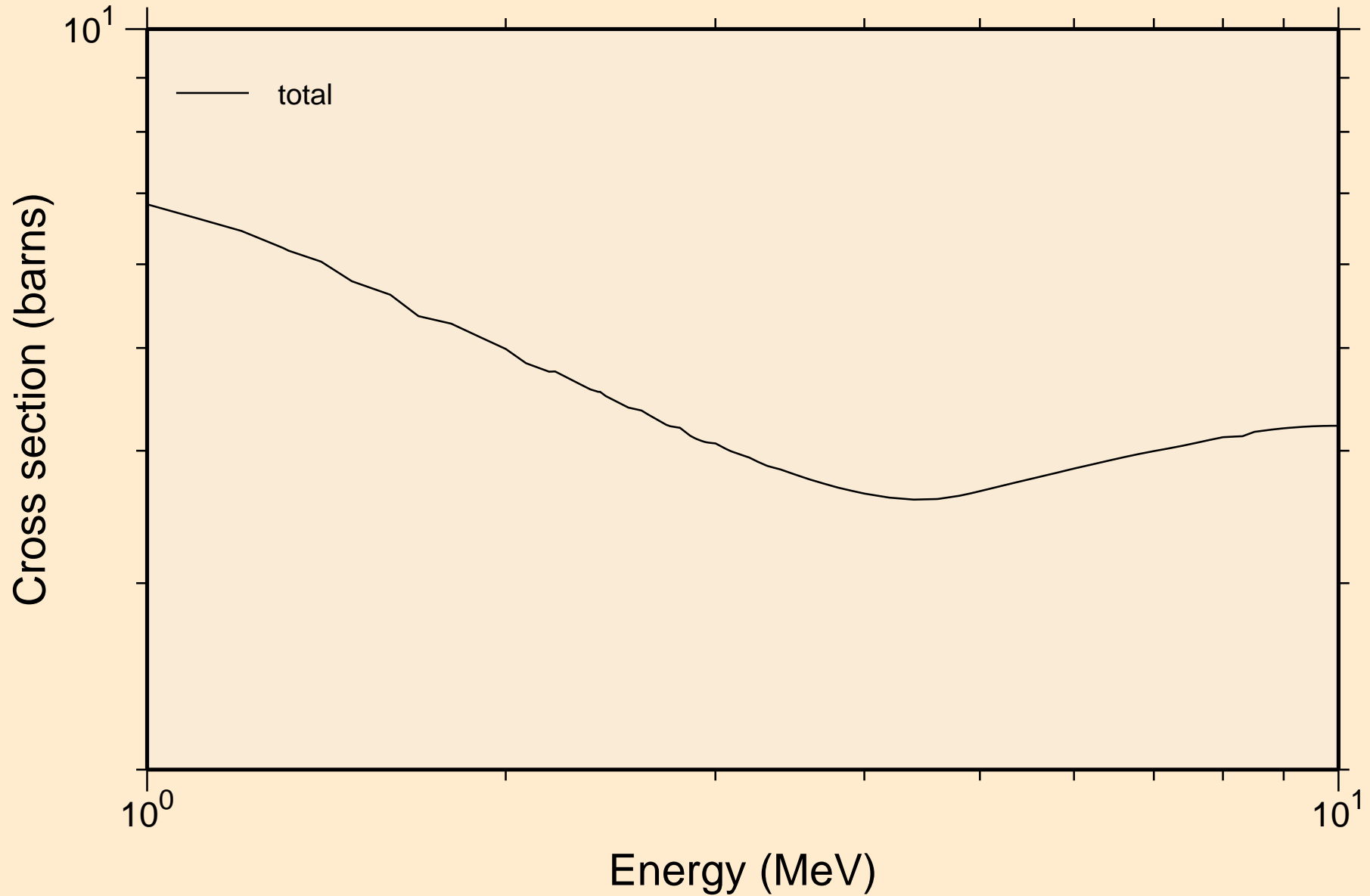
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



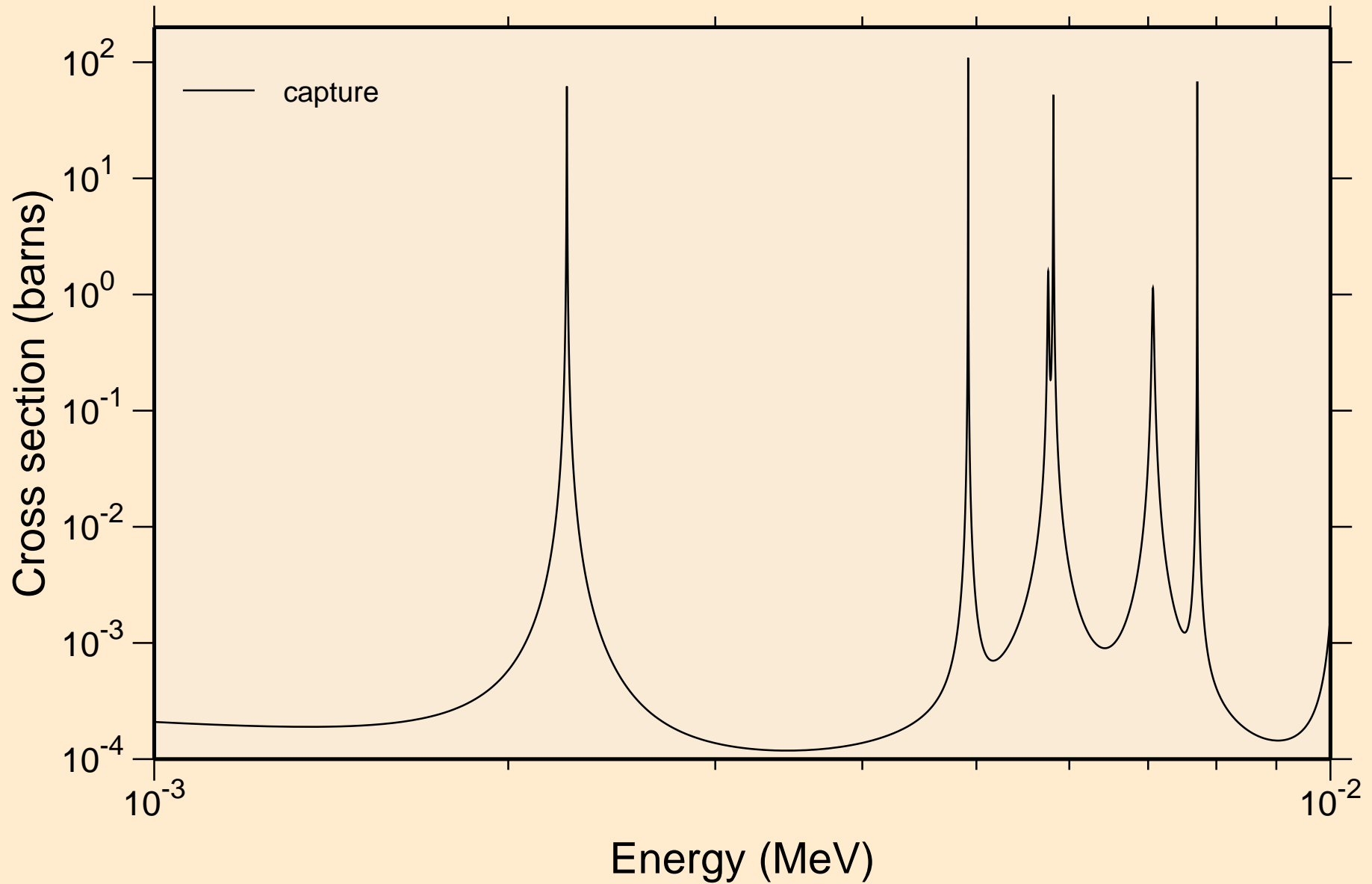
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



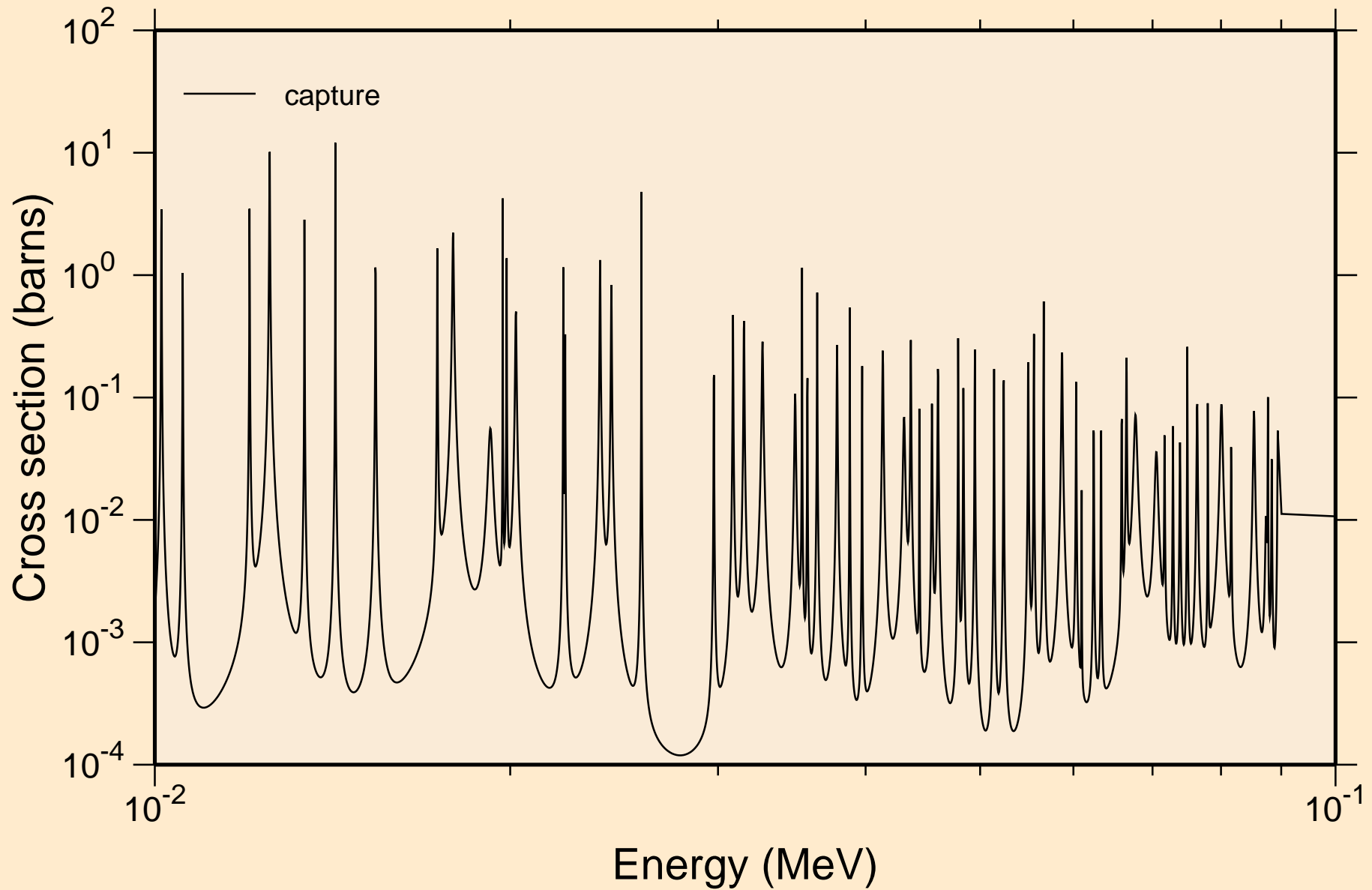
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance total cross section



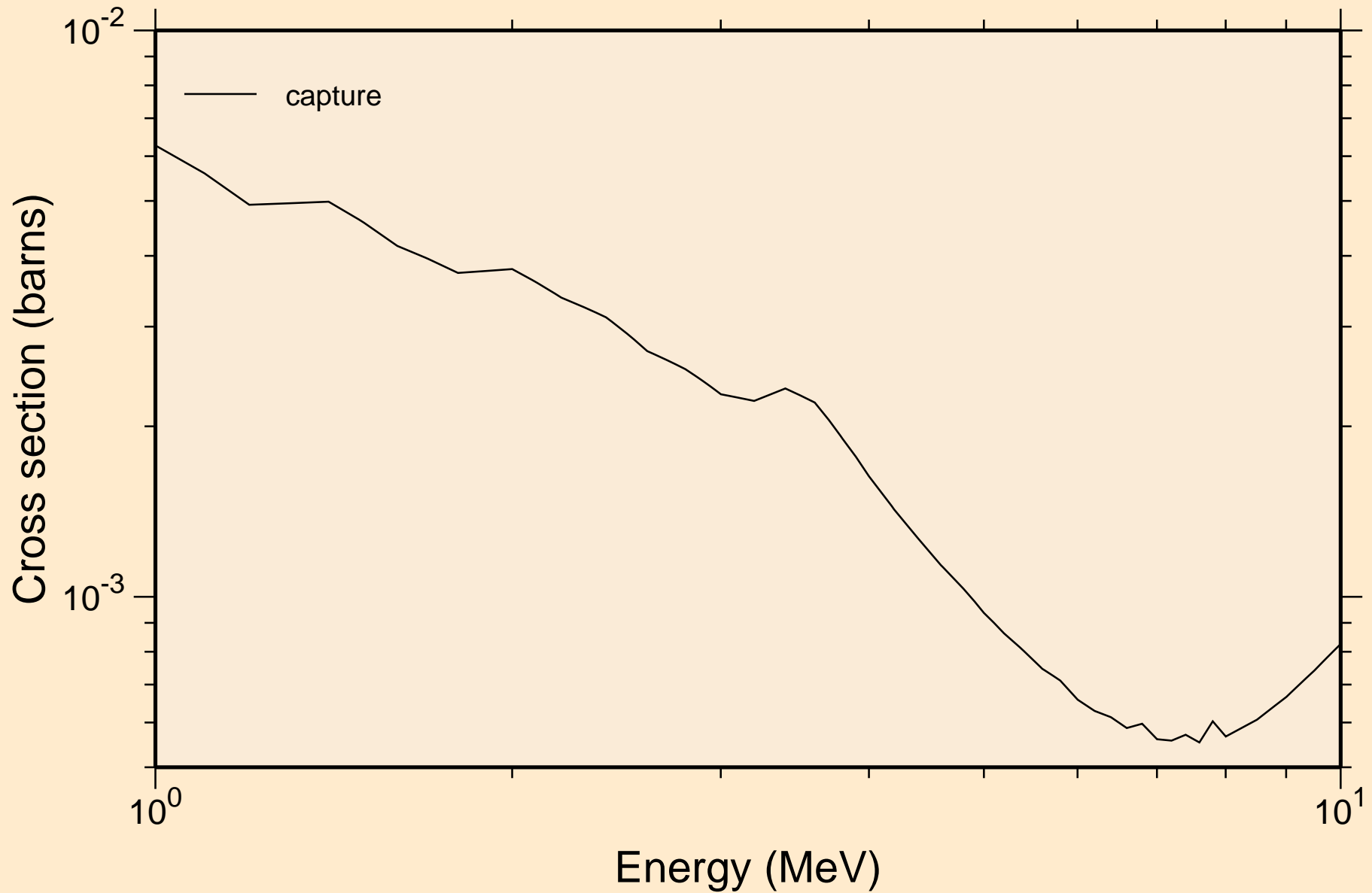
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



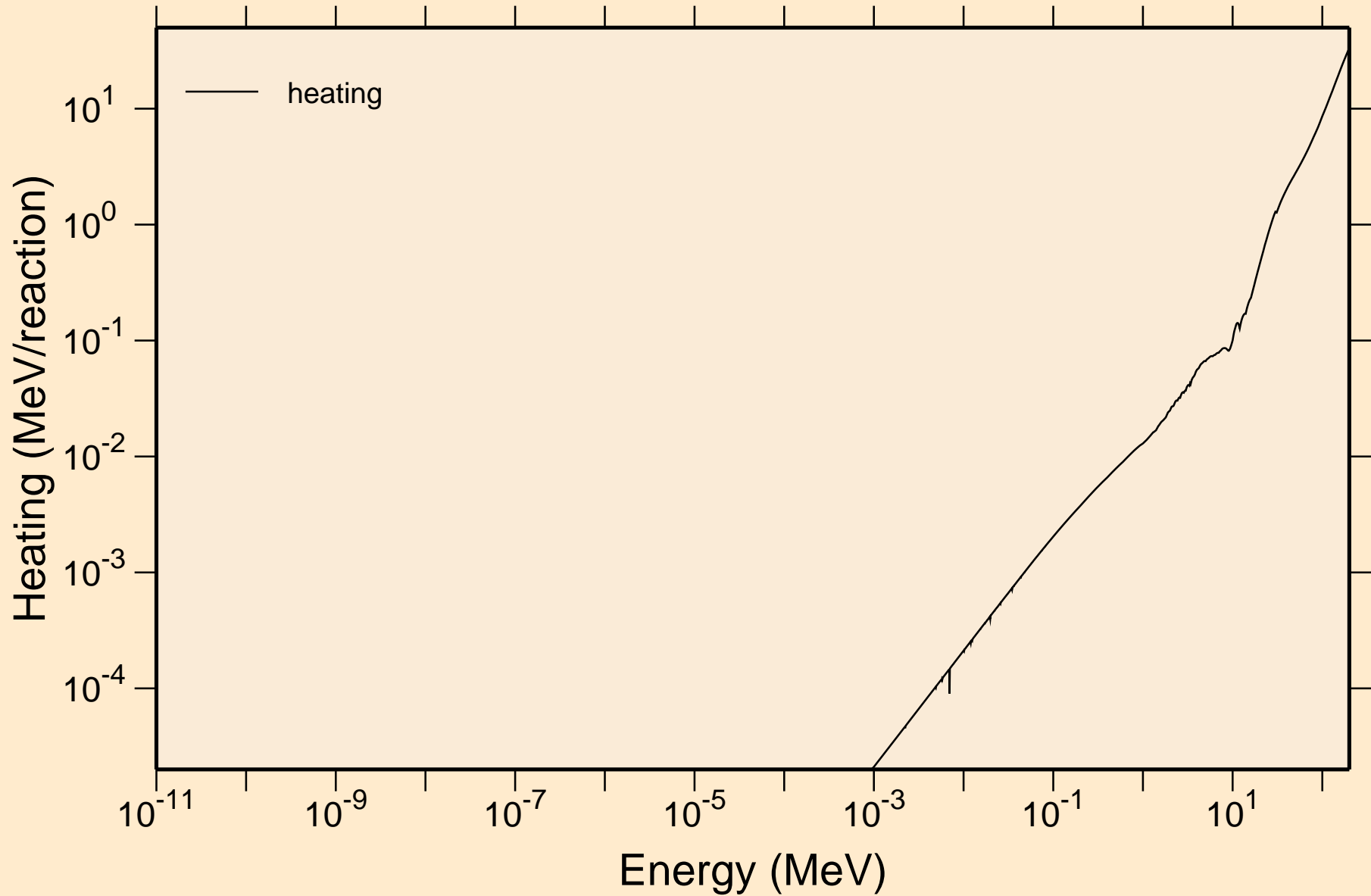
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
resonance absorption cross sections

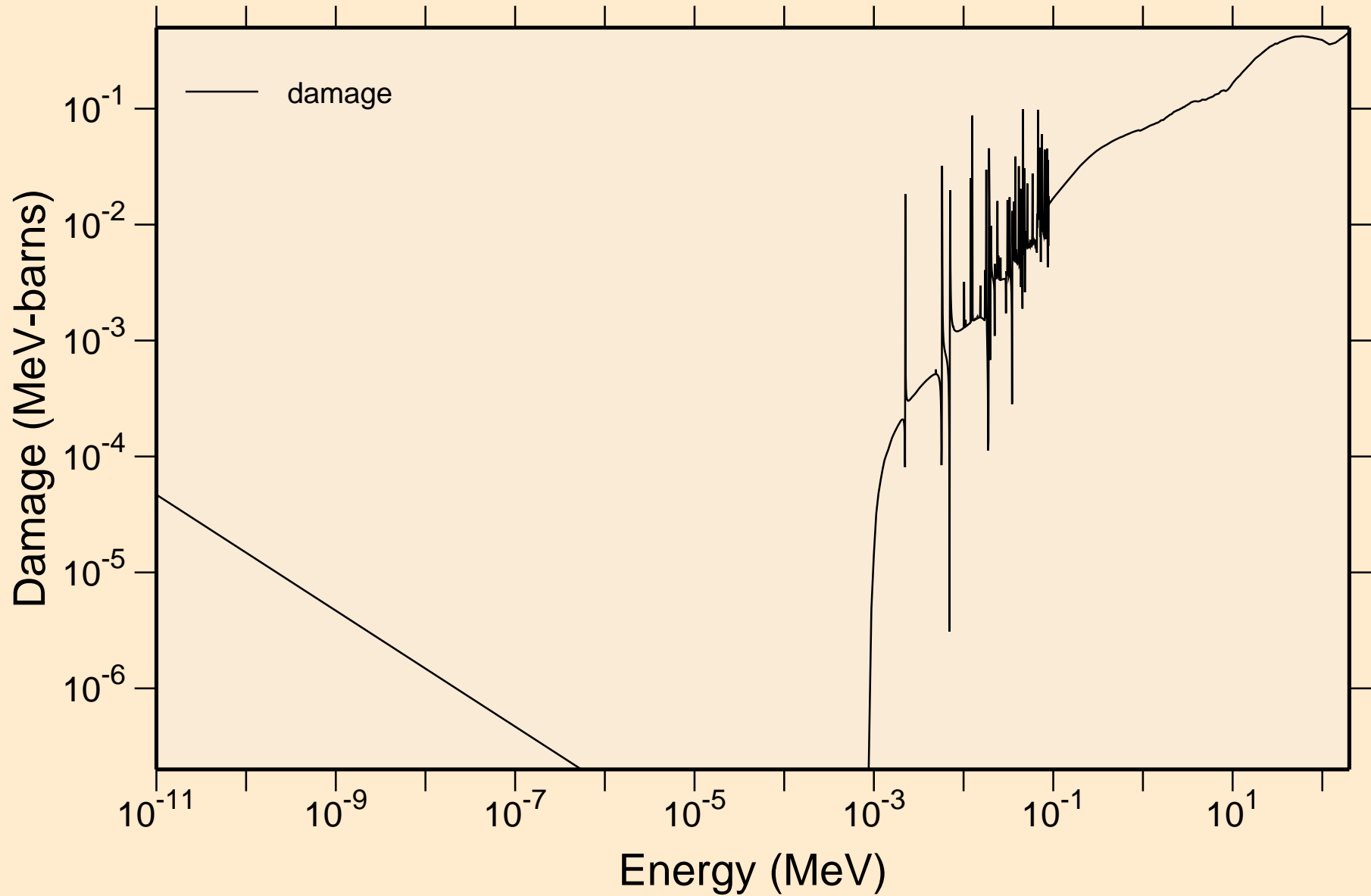


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Heating

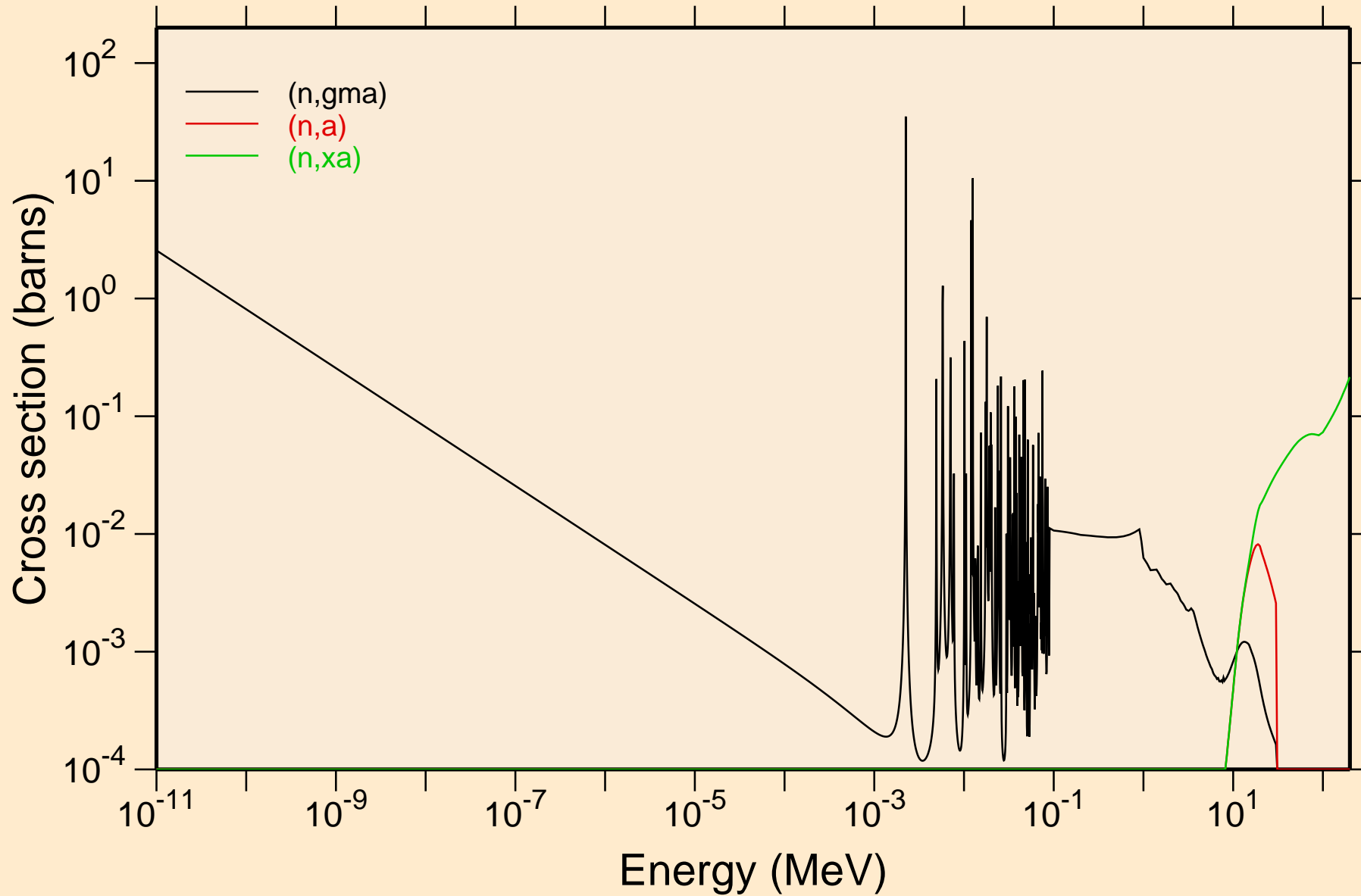




ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Damage

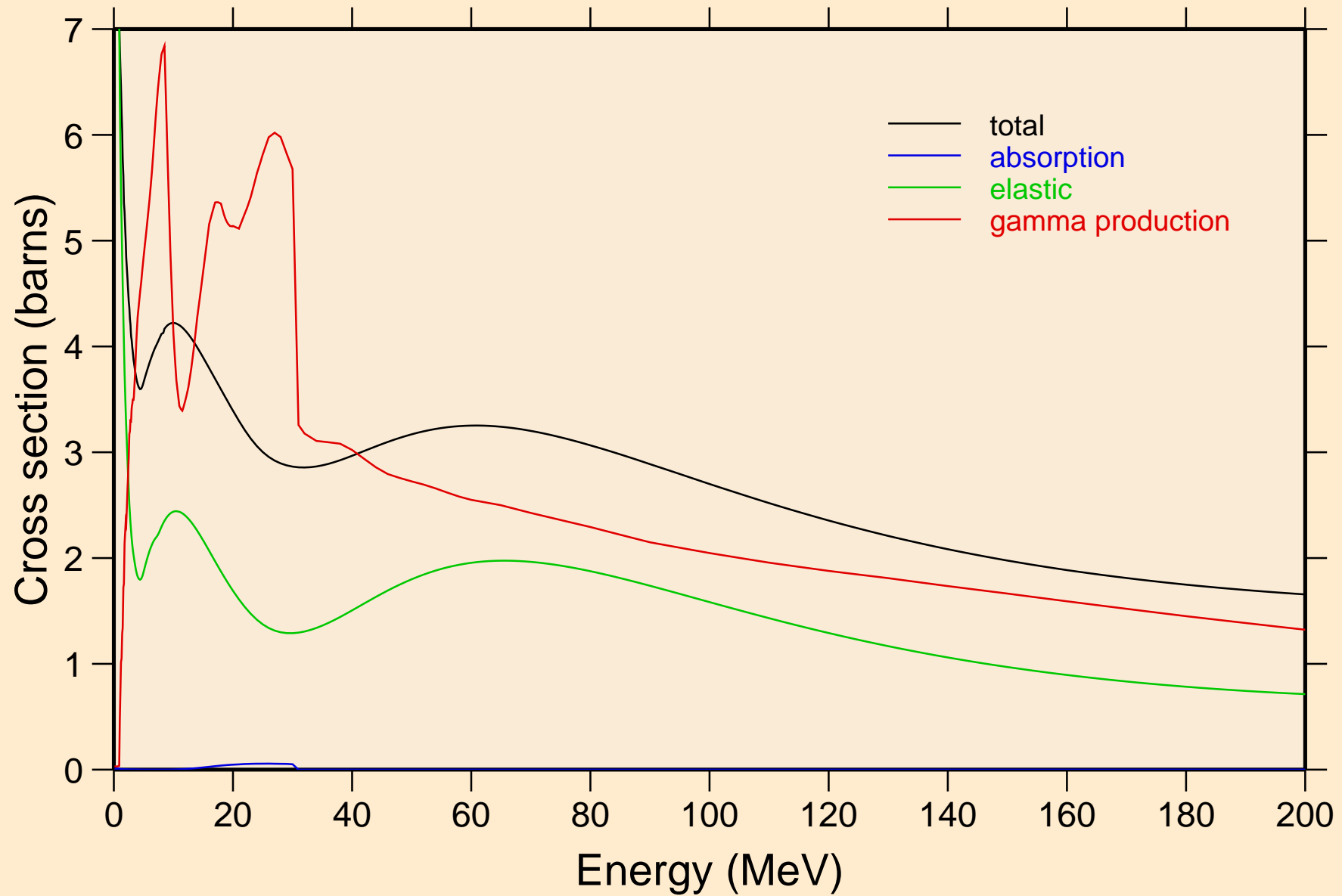


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



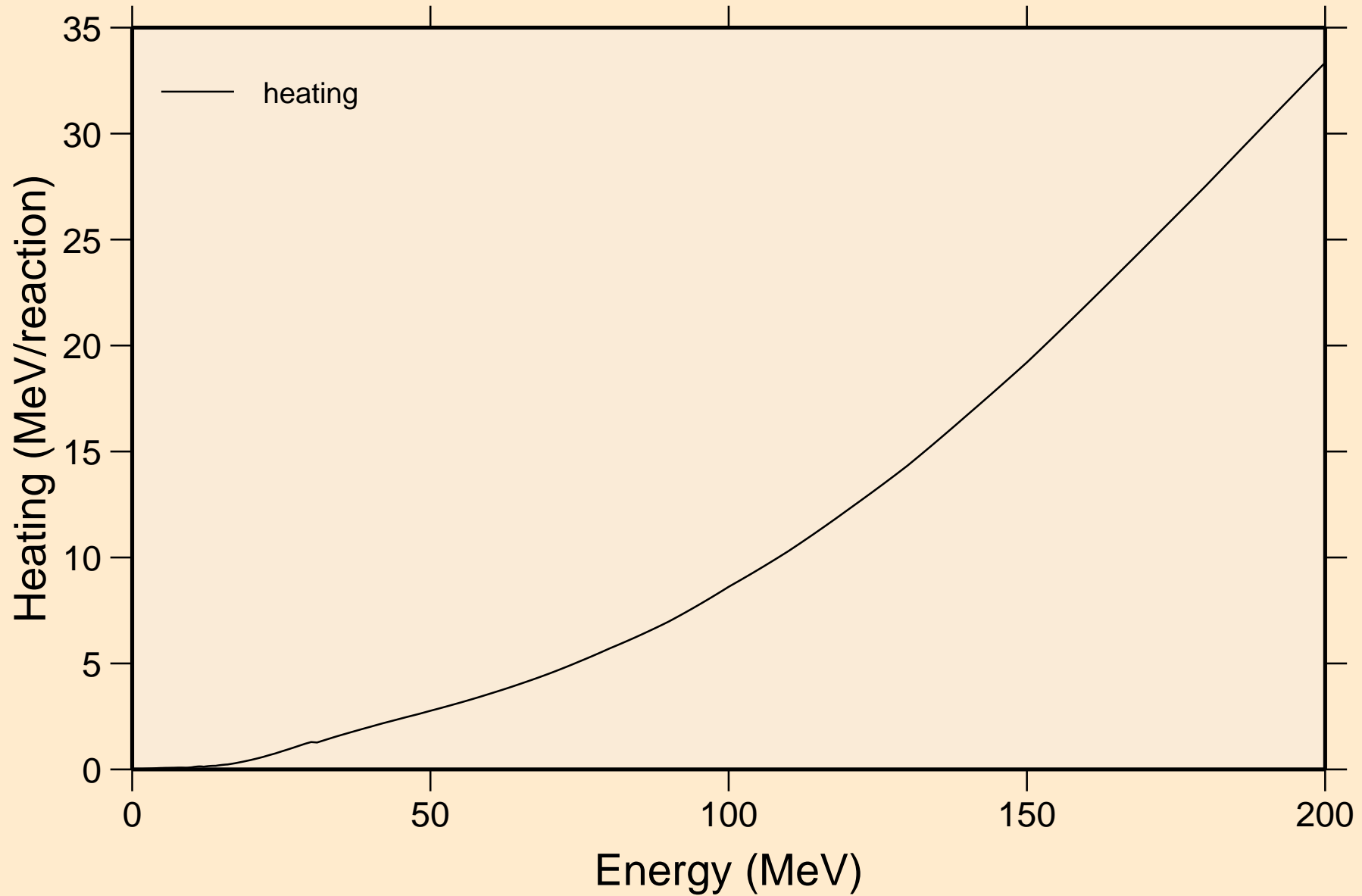
# ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



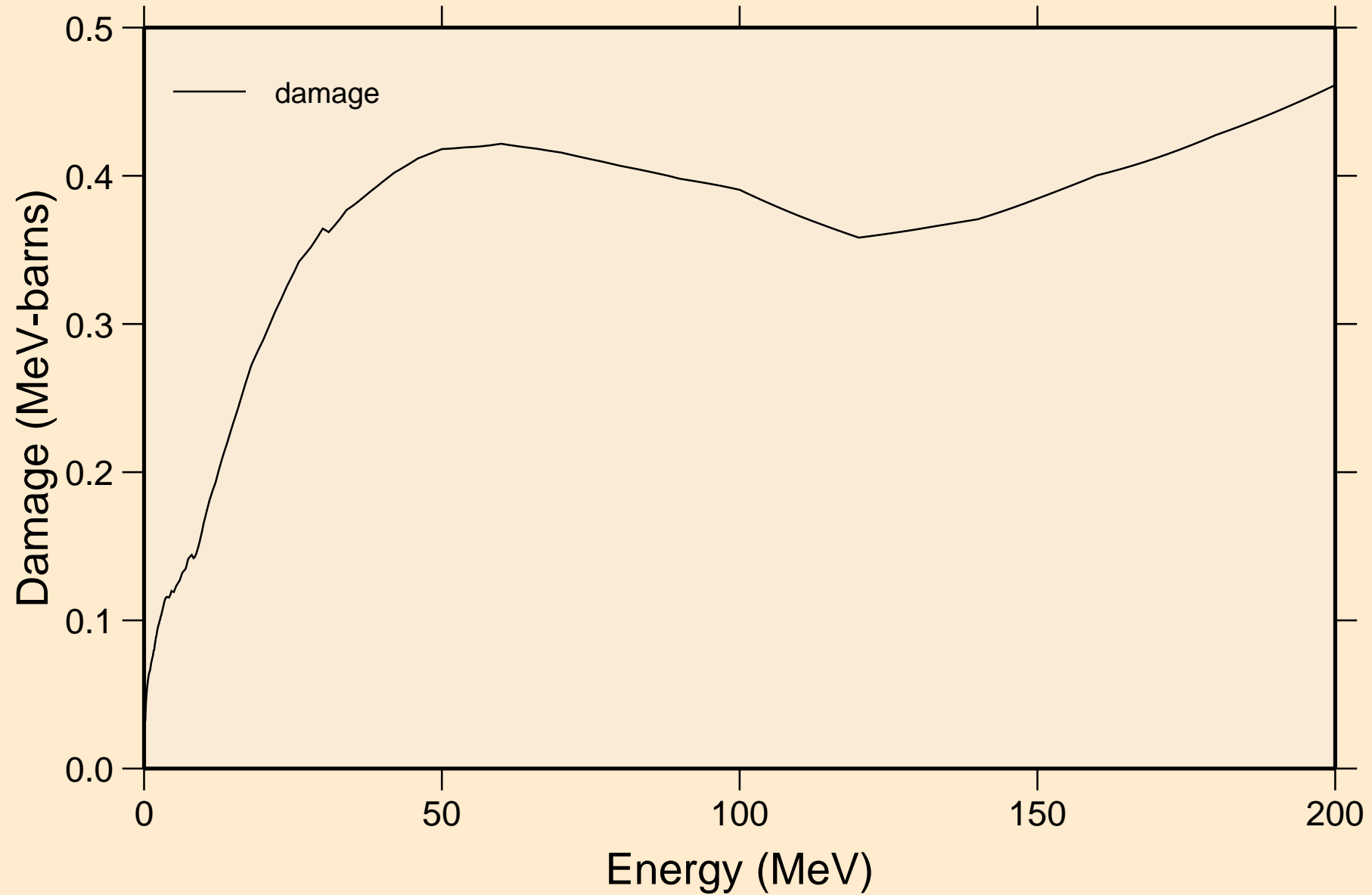
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## Heating

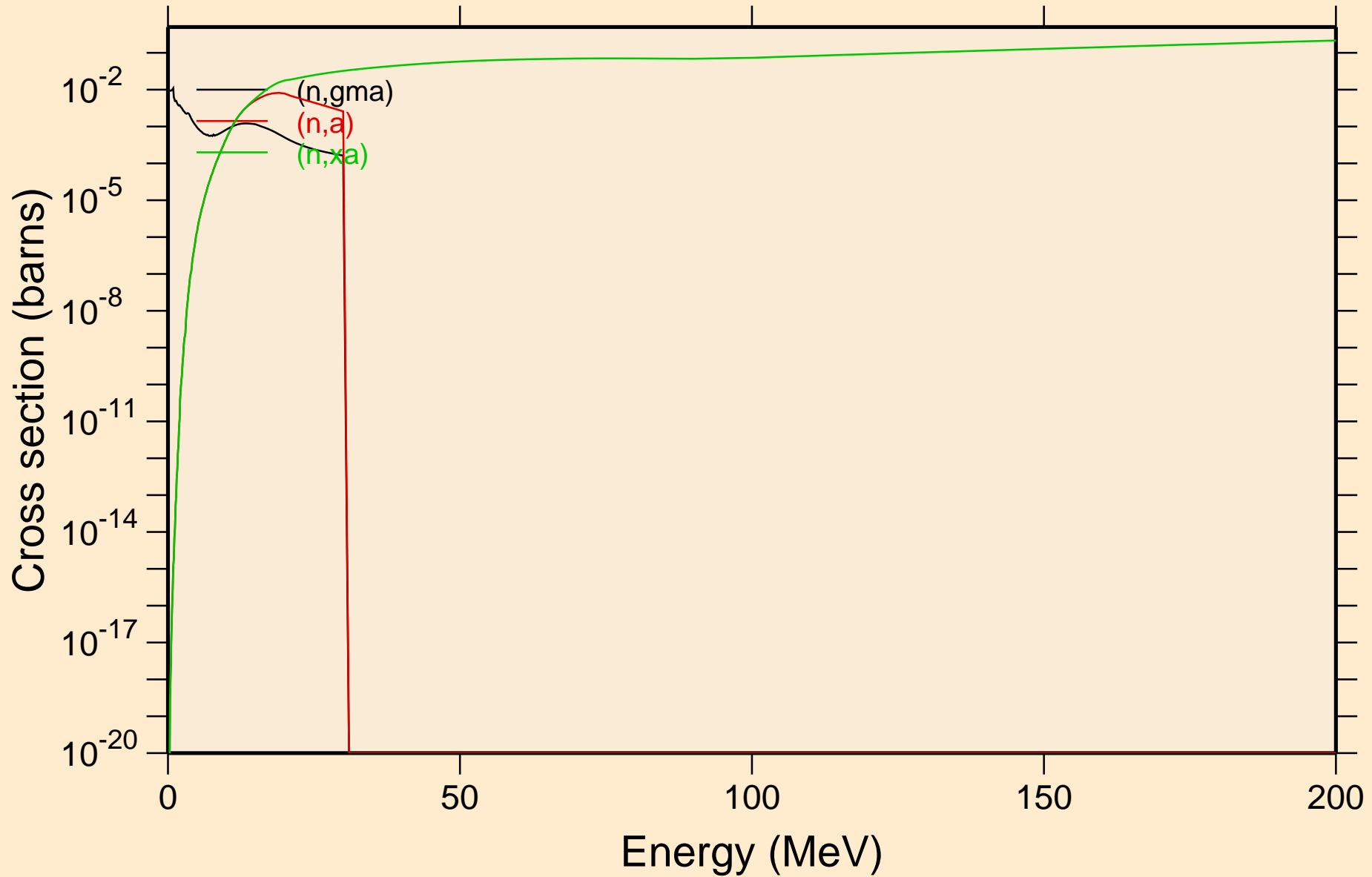


# ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

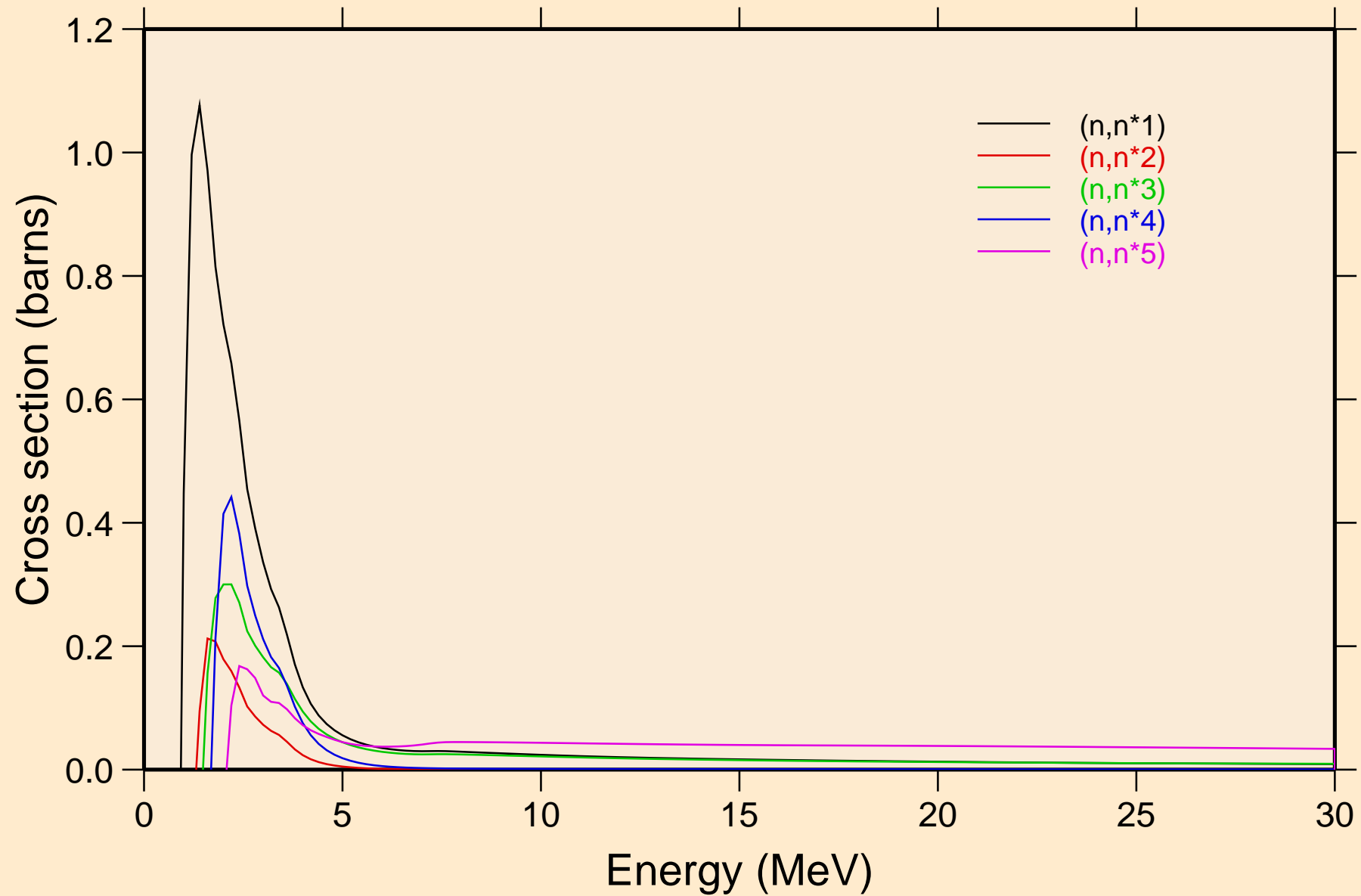
## Damage



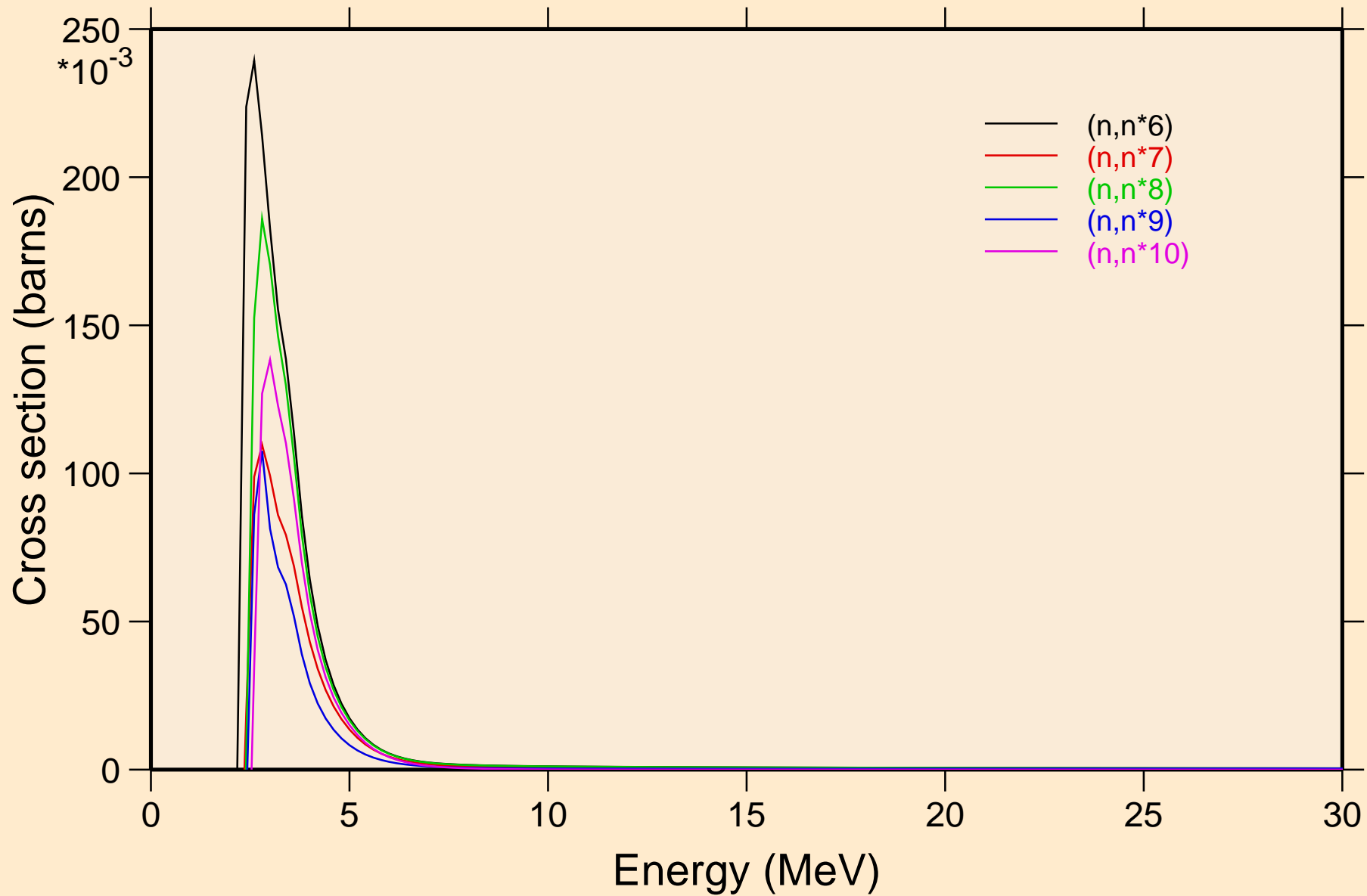
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

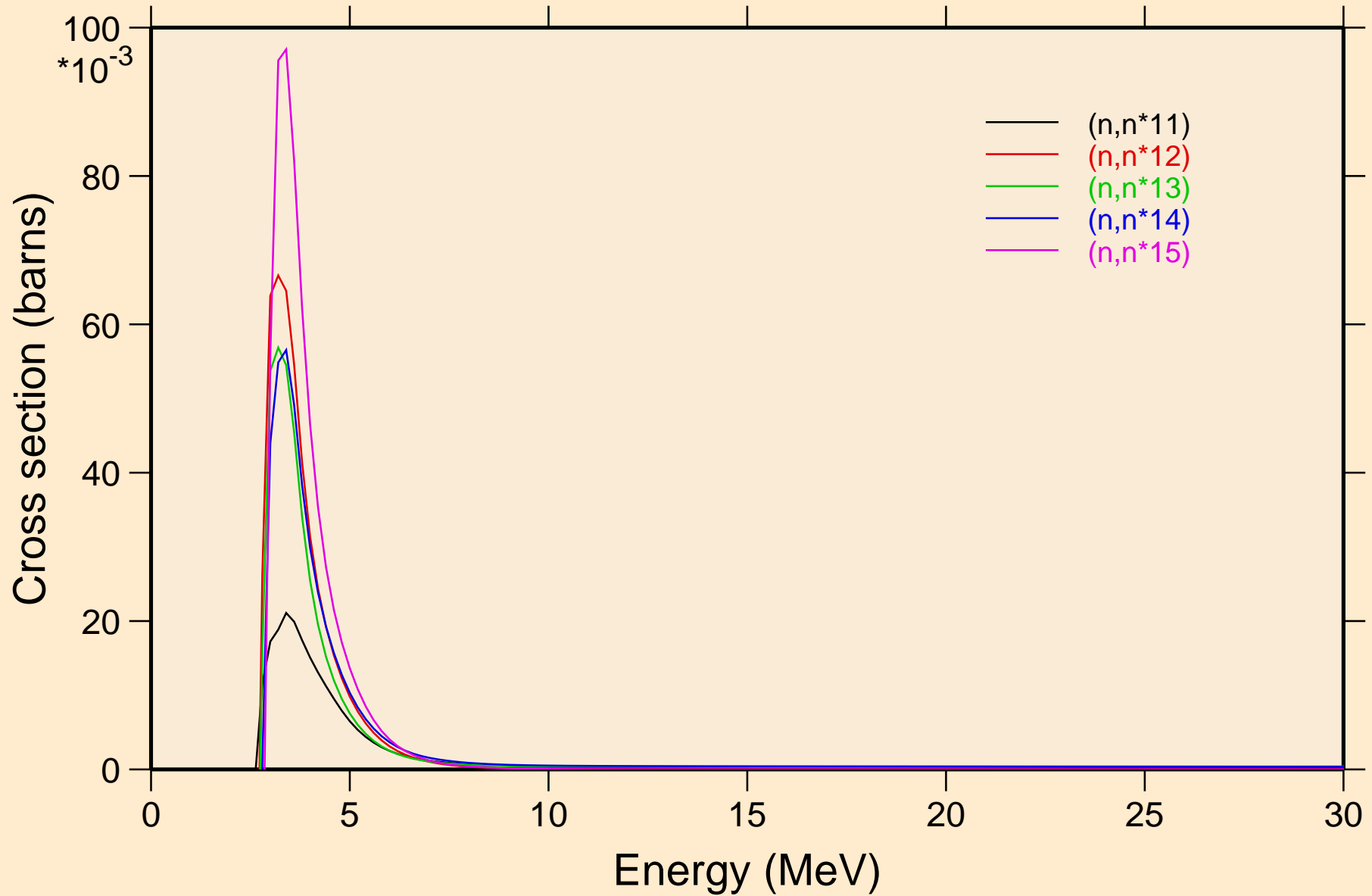


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

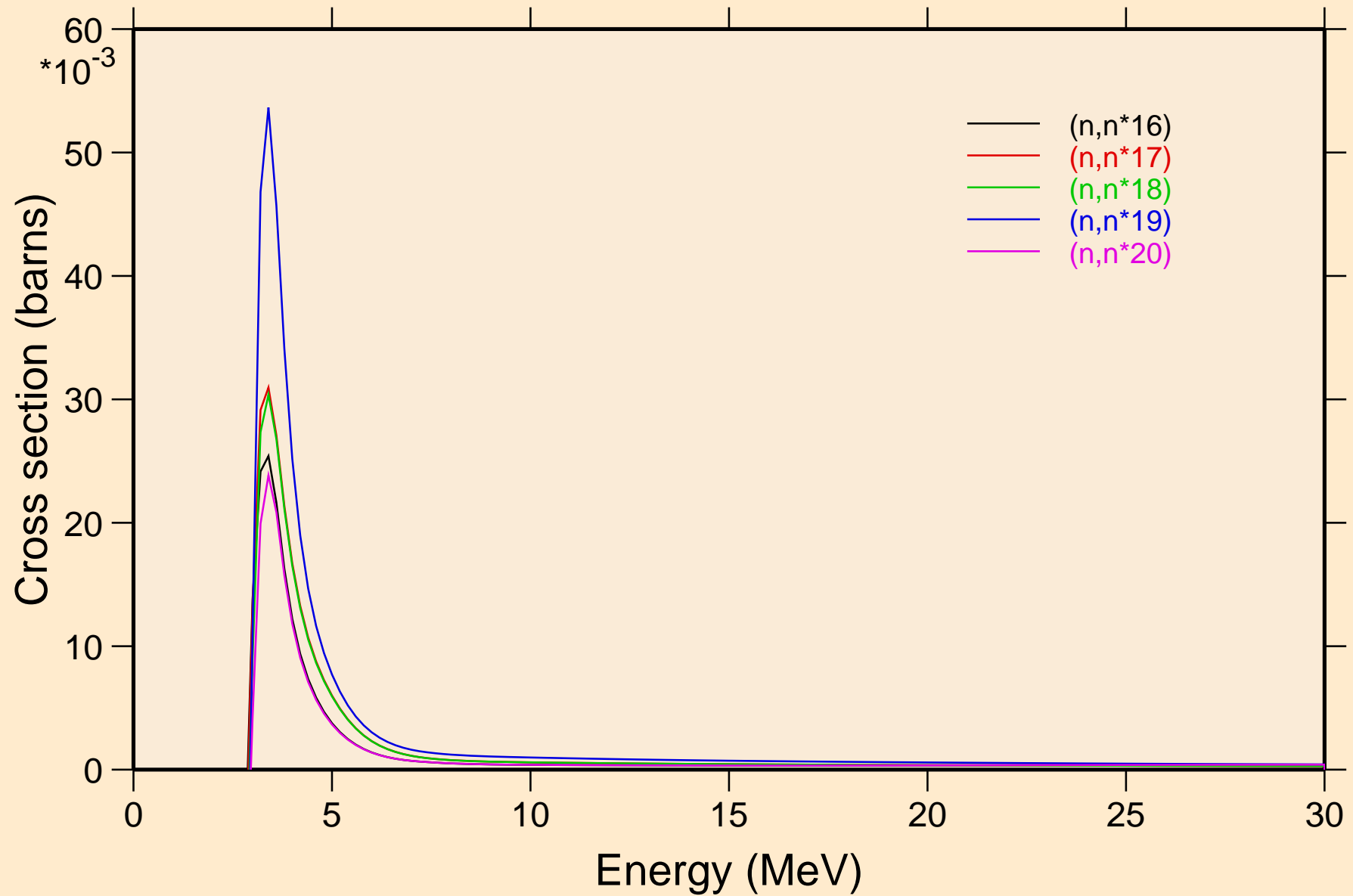




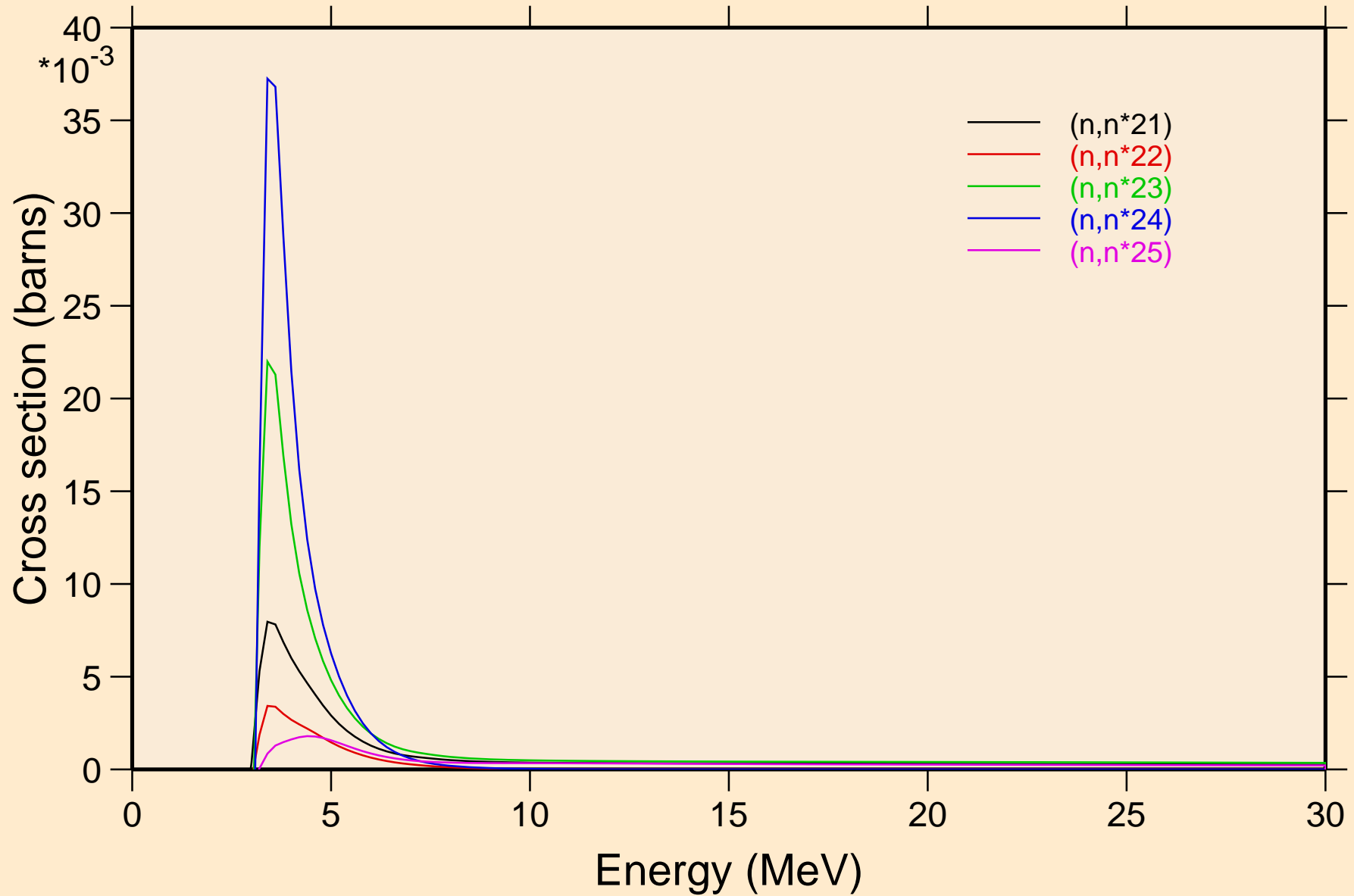
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



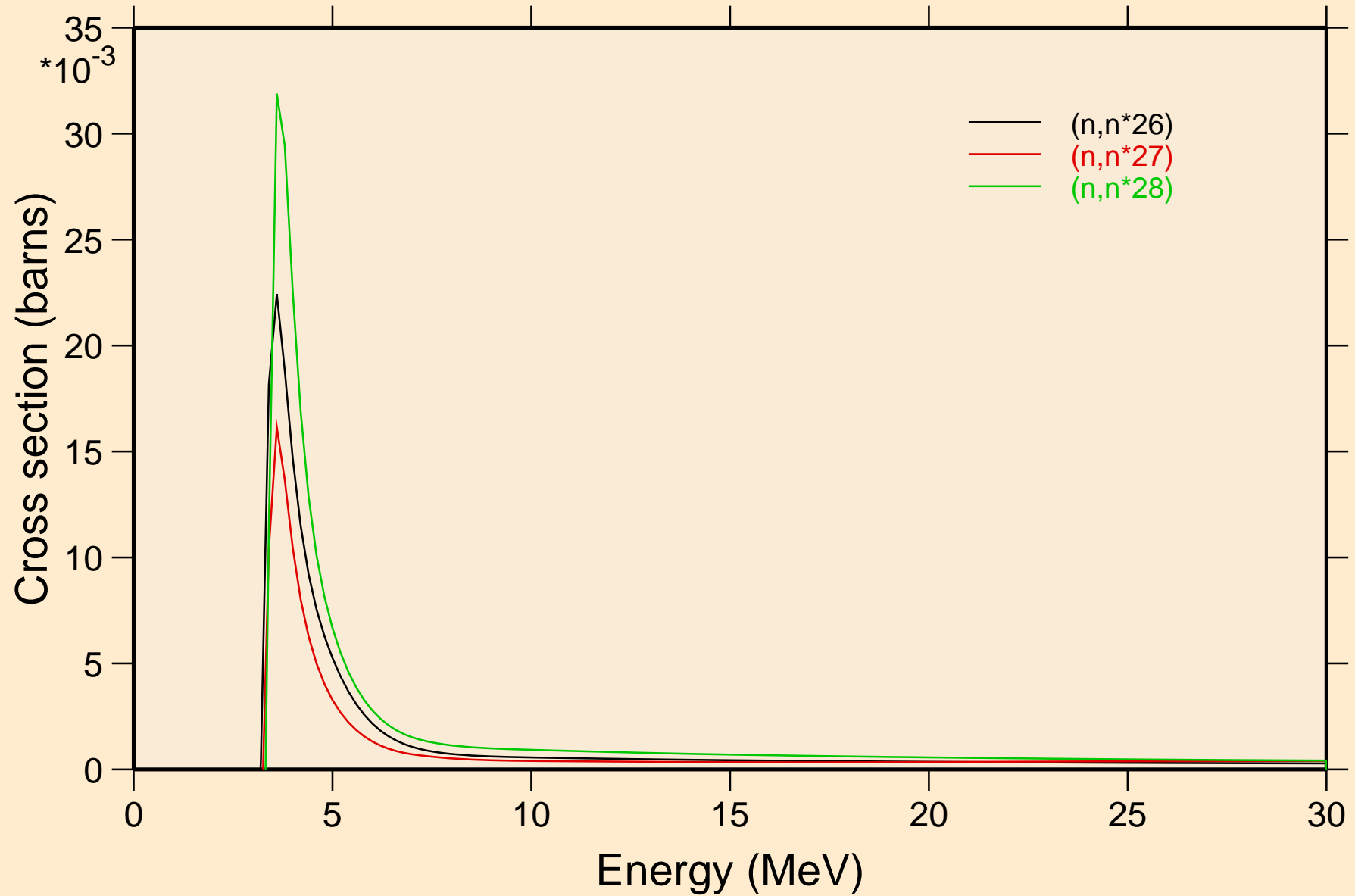
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



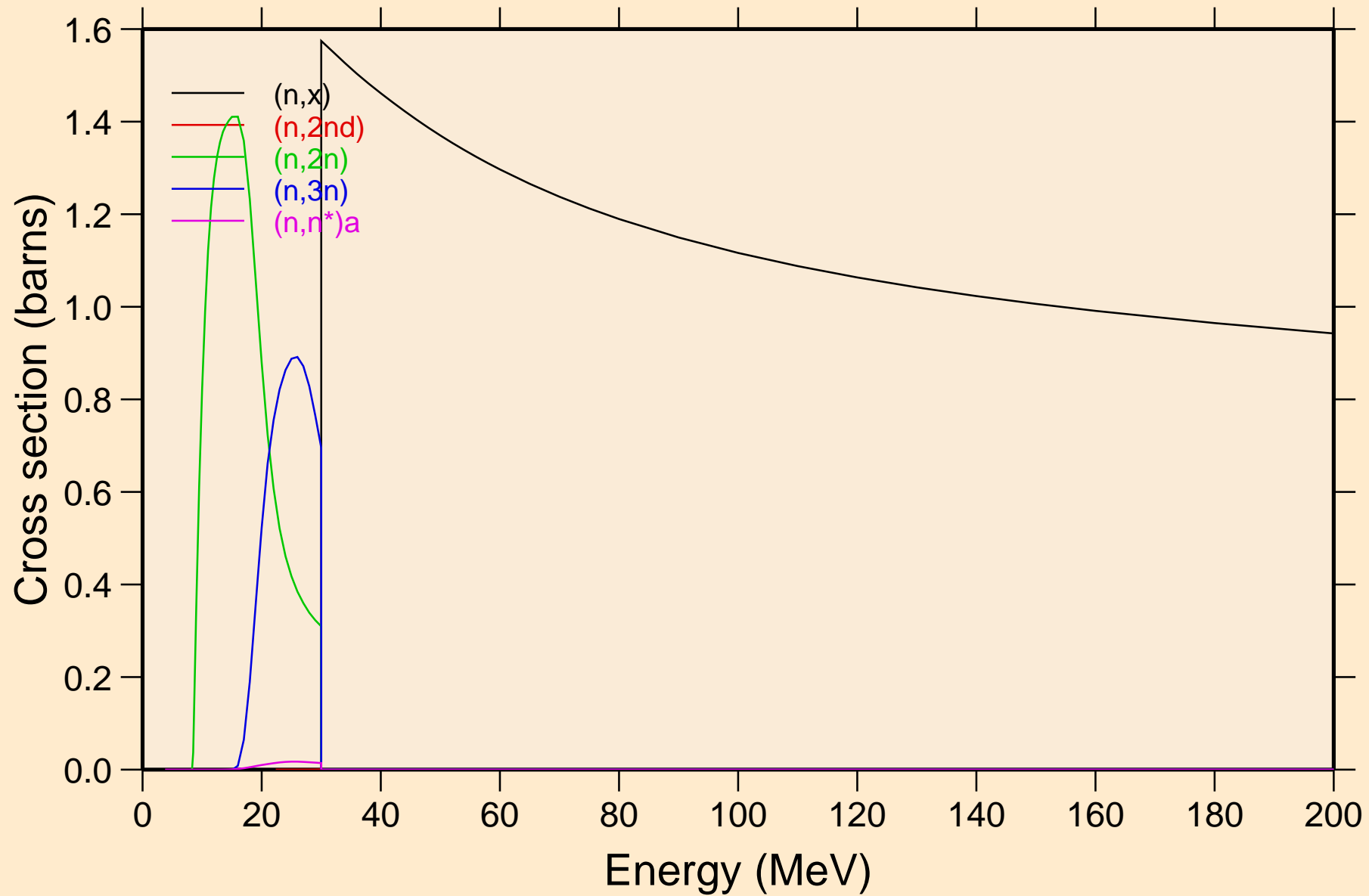
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels



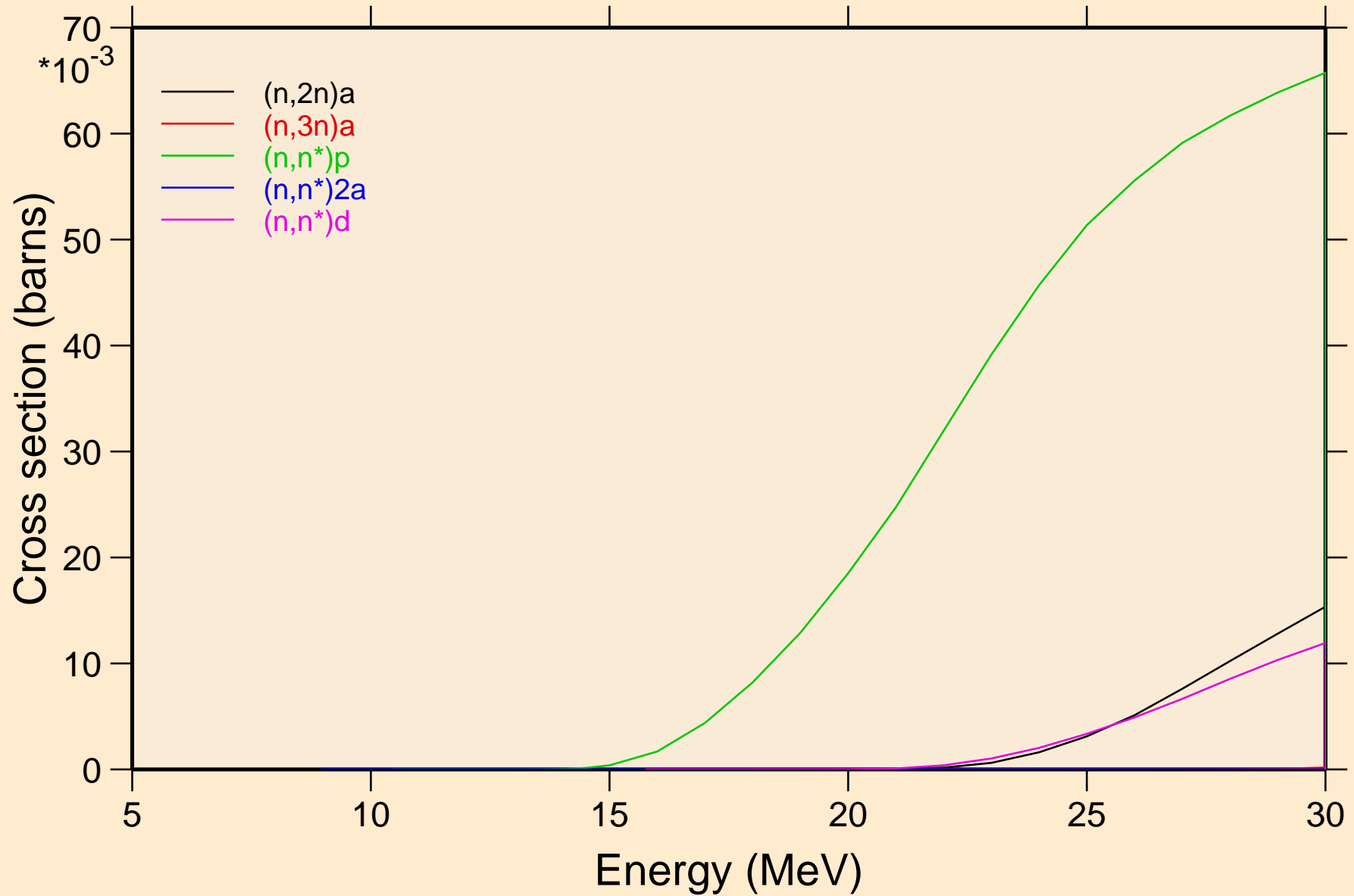
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Inelastic levels



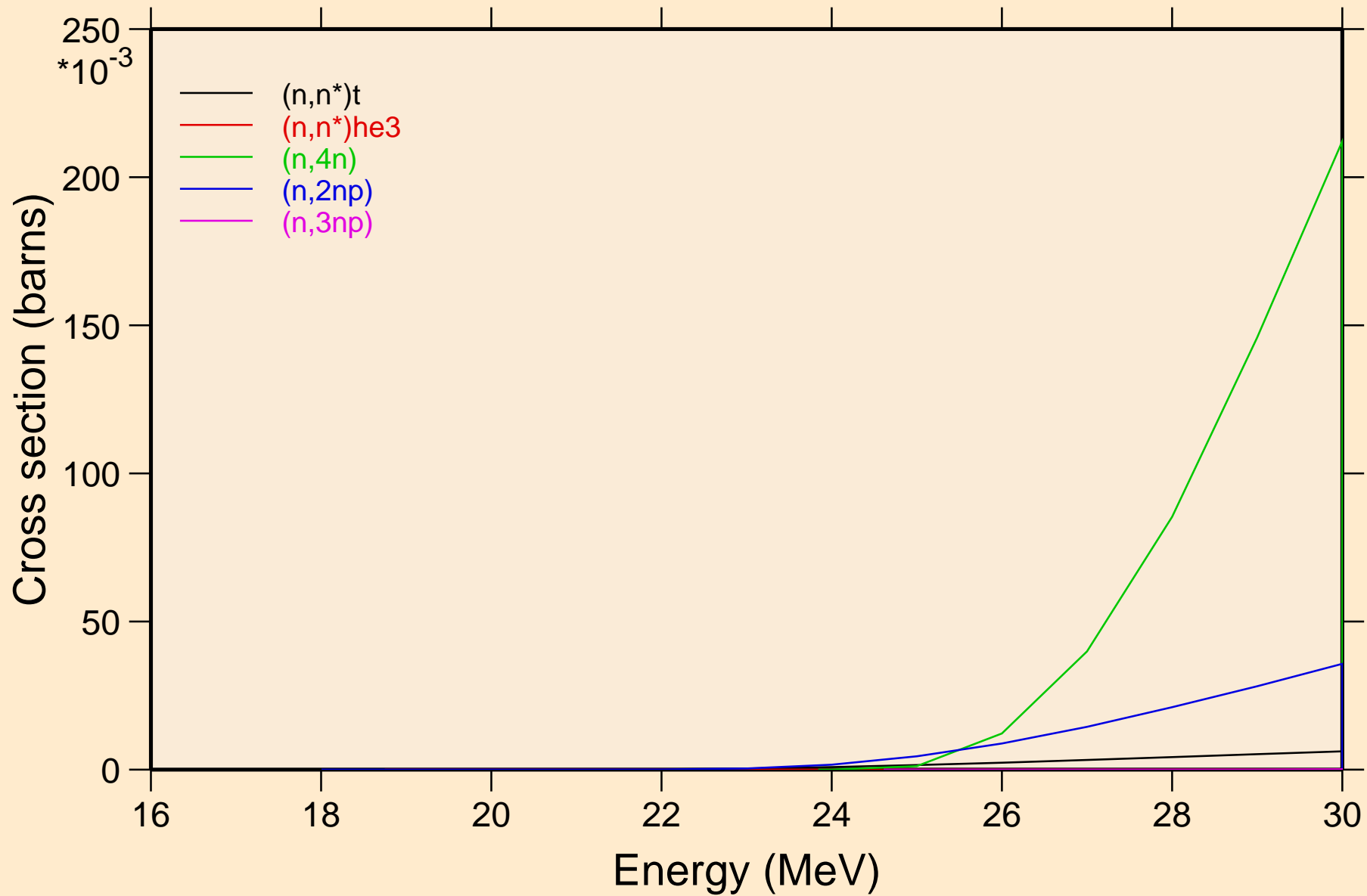
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



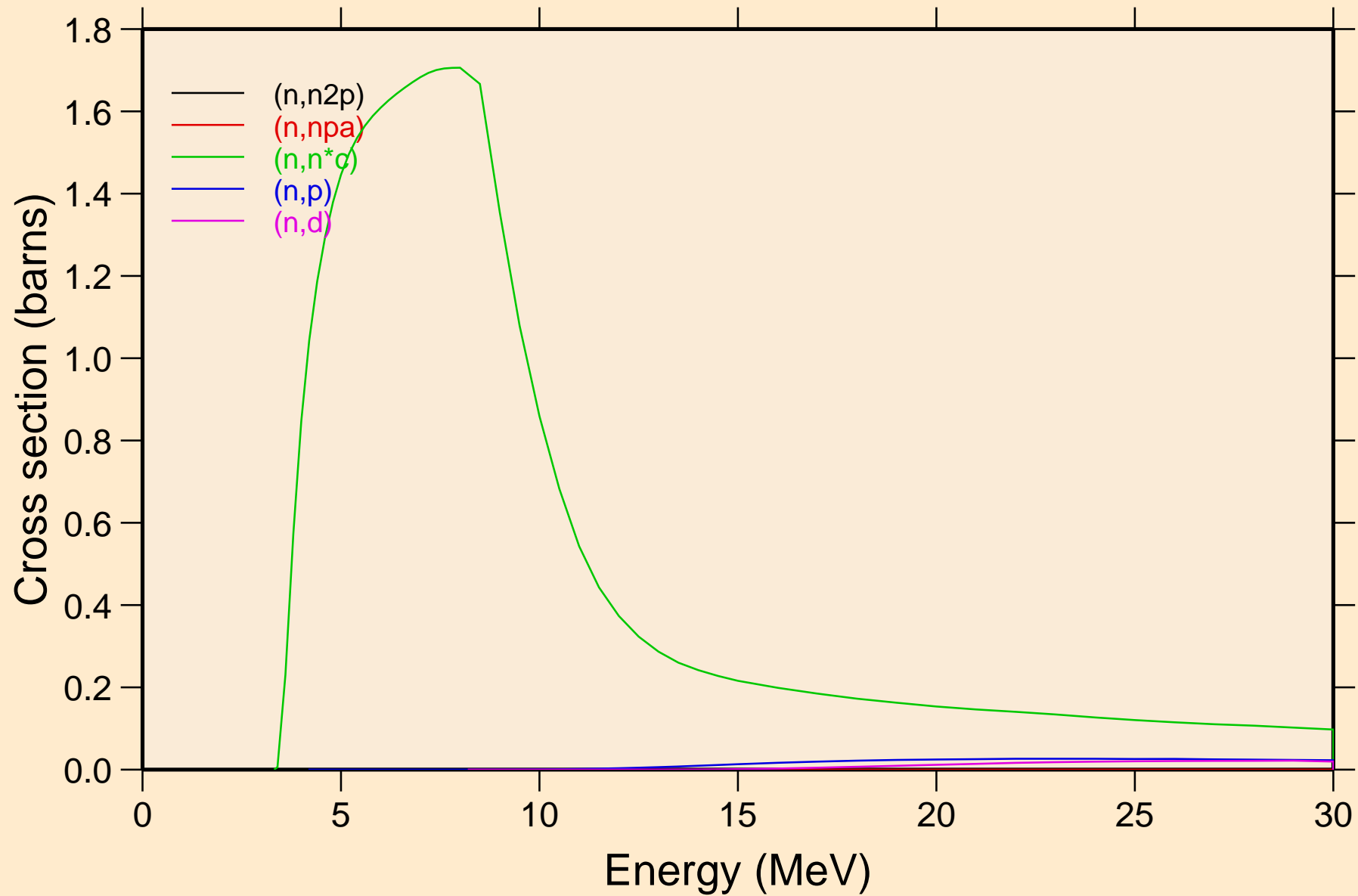
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

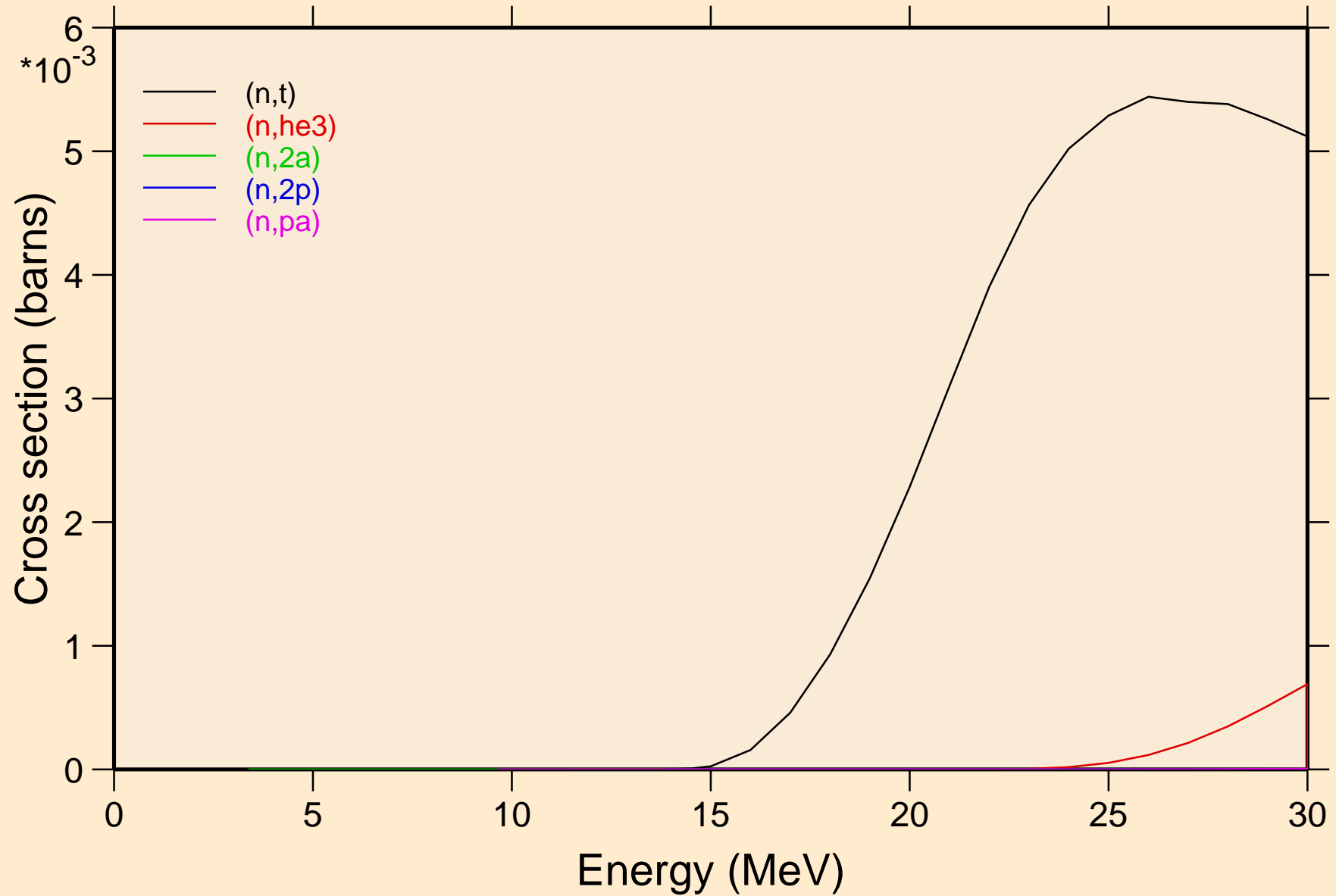


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



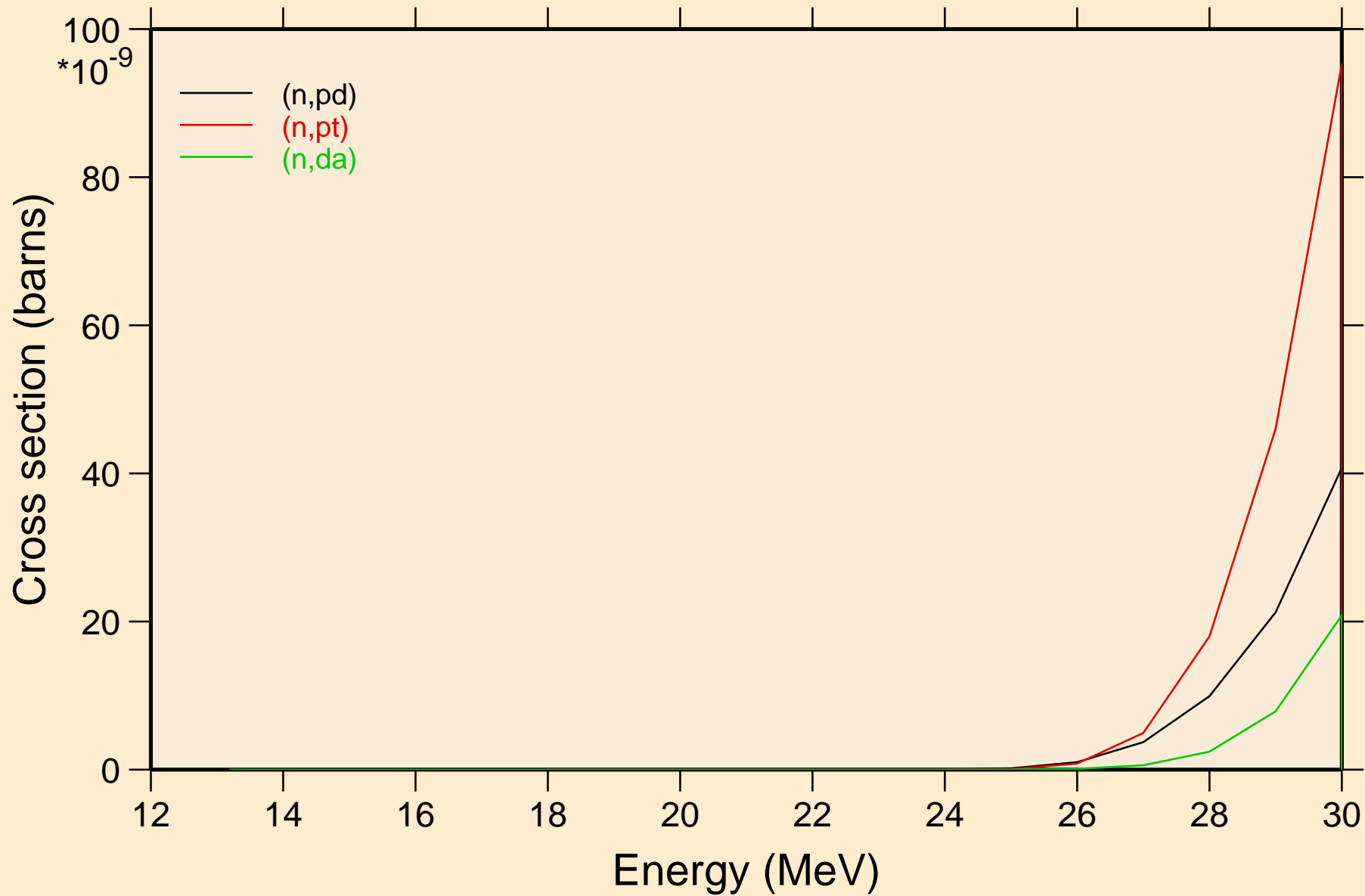


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

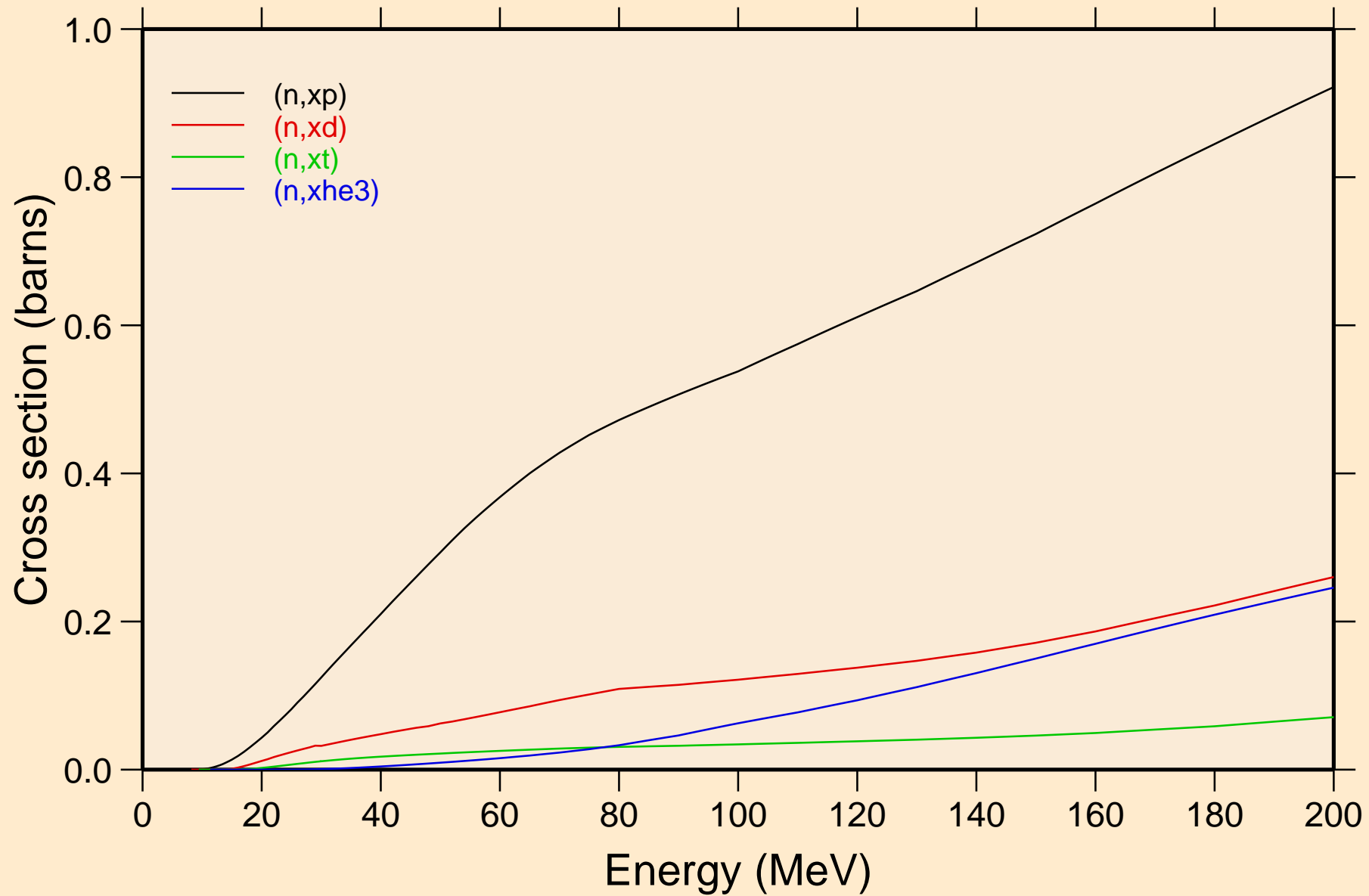


# ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

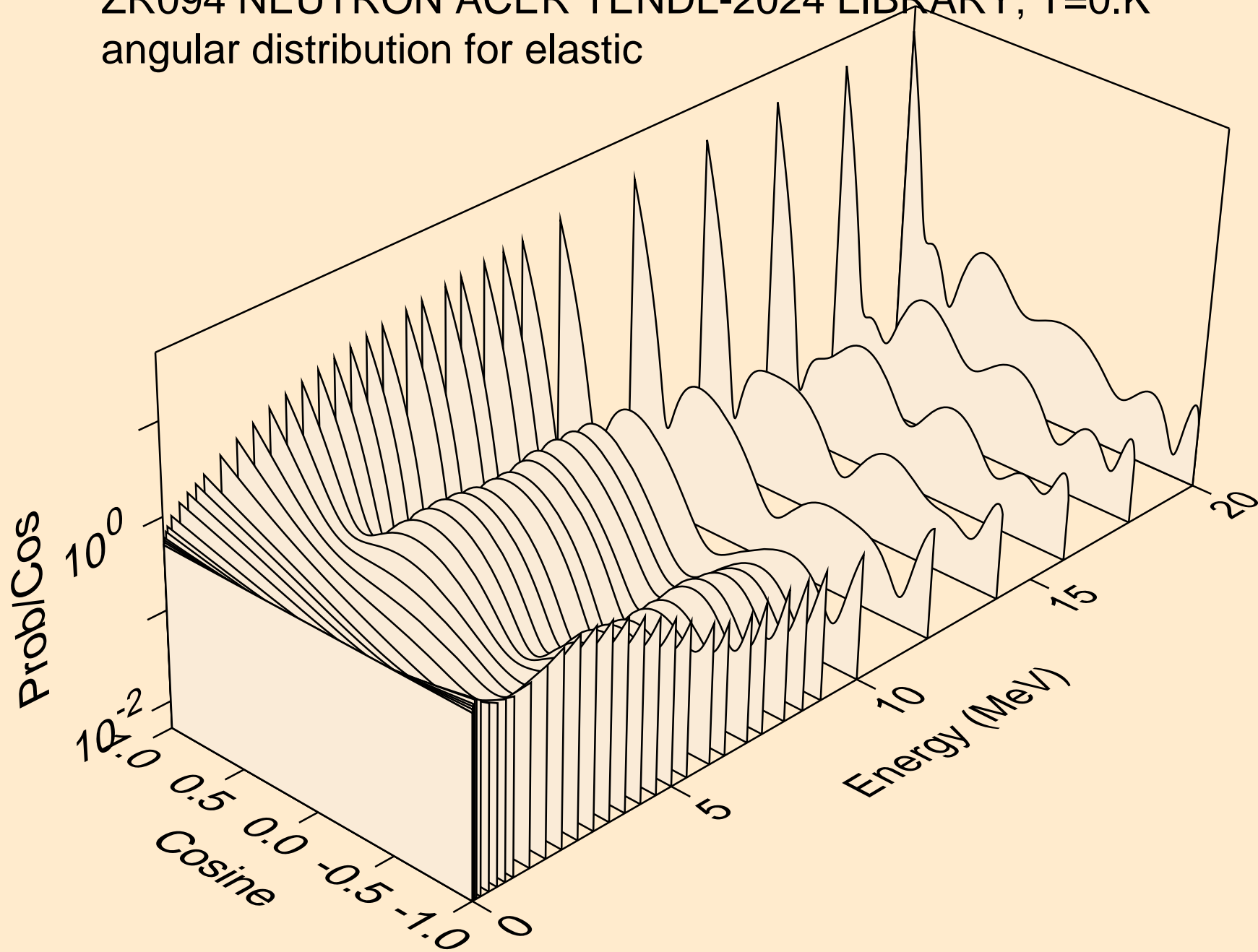
## Threshold reactions



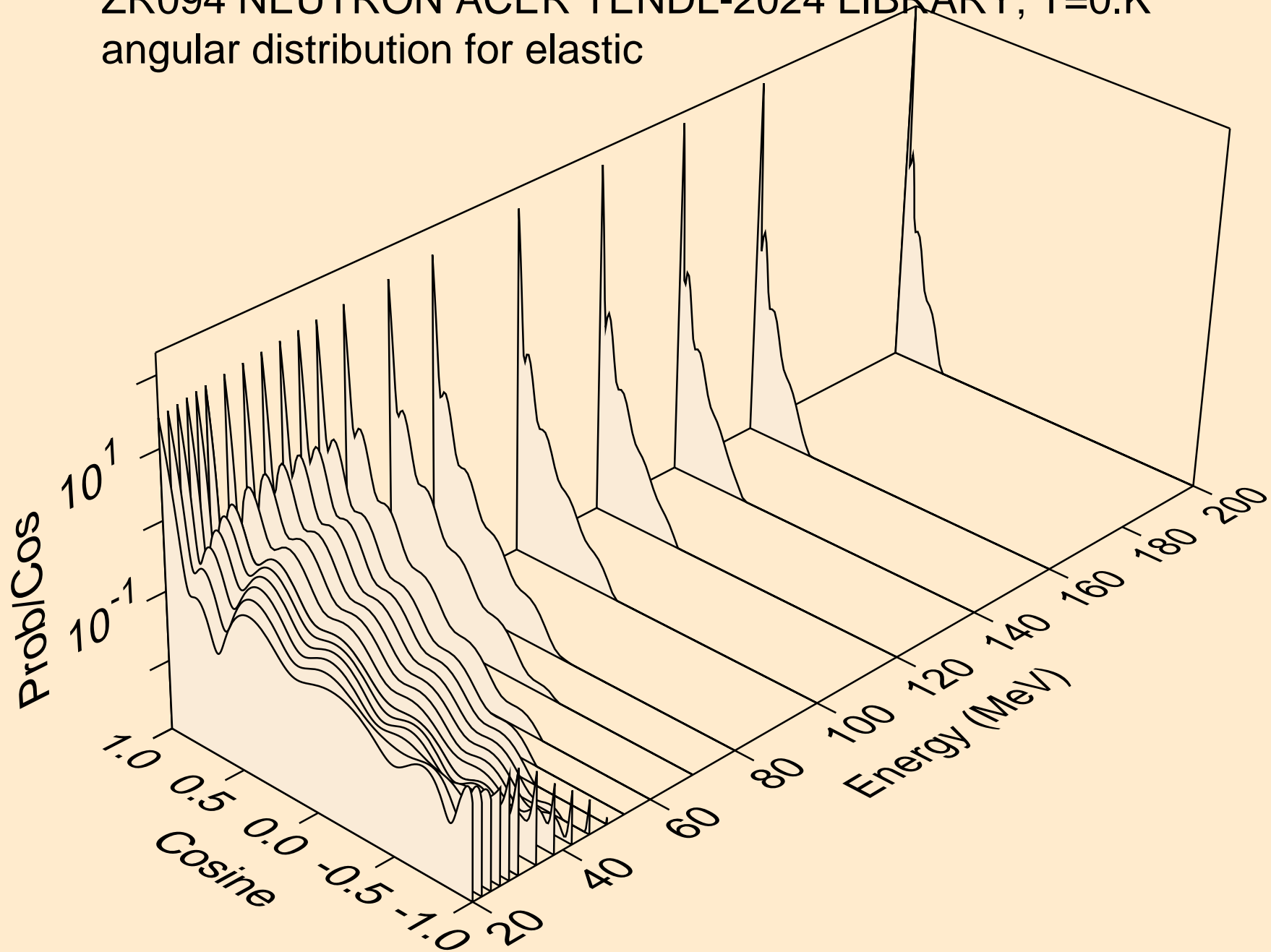
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



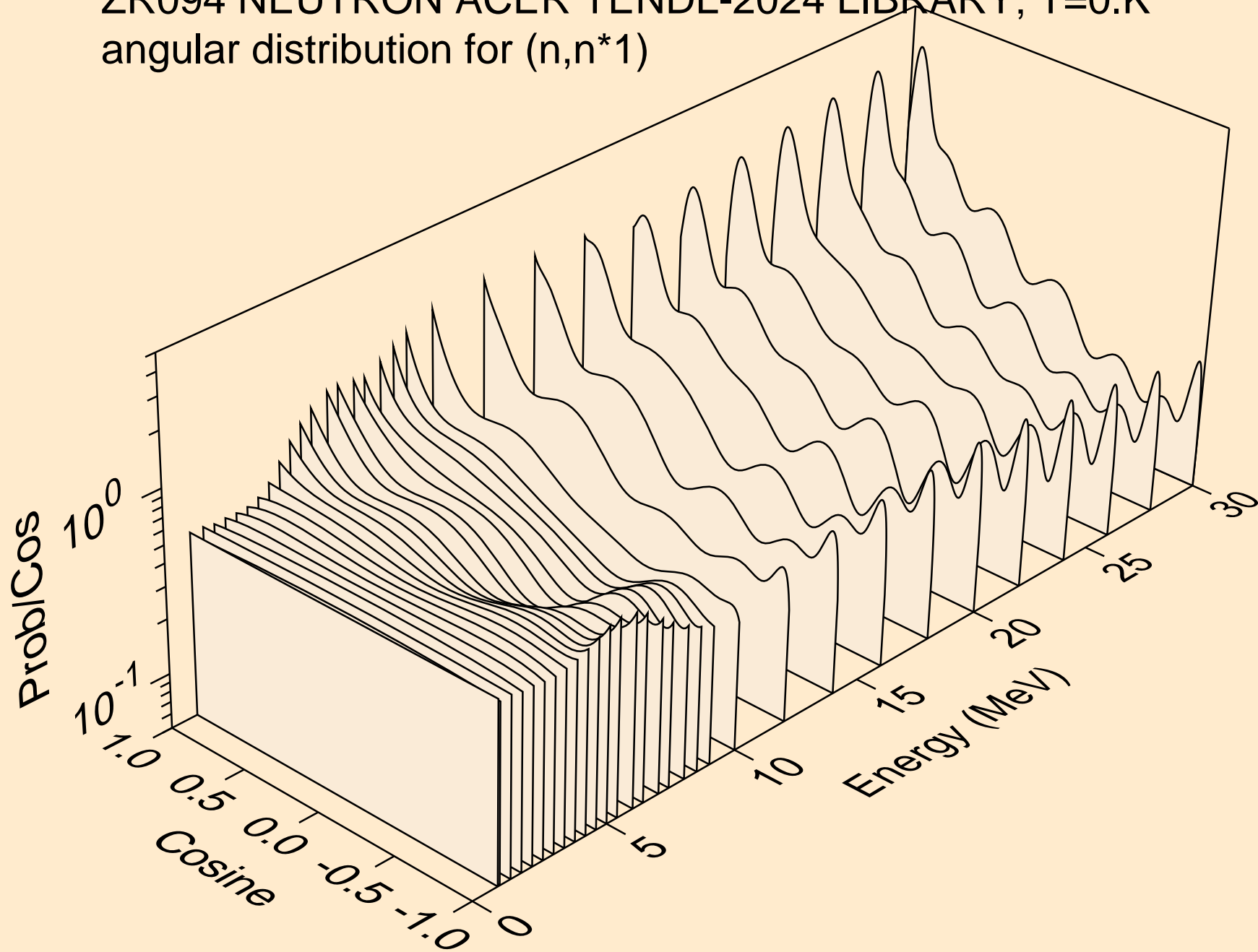
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



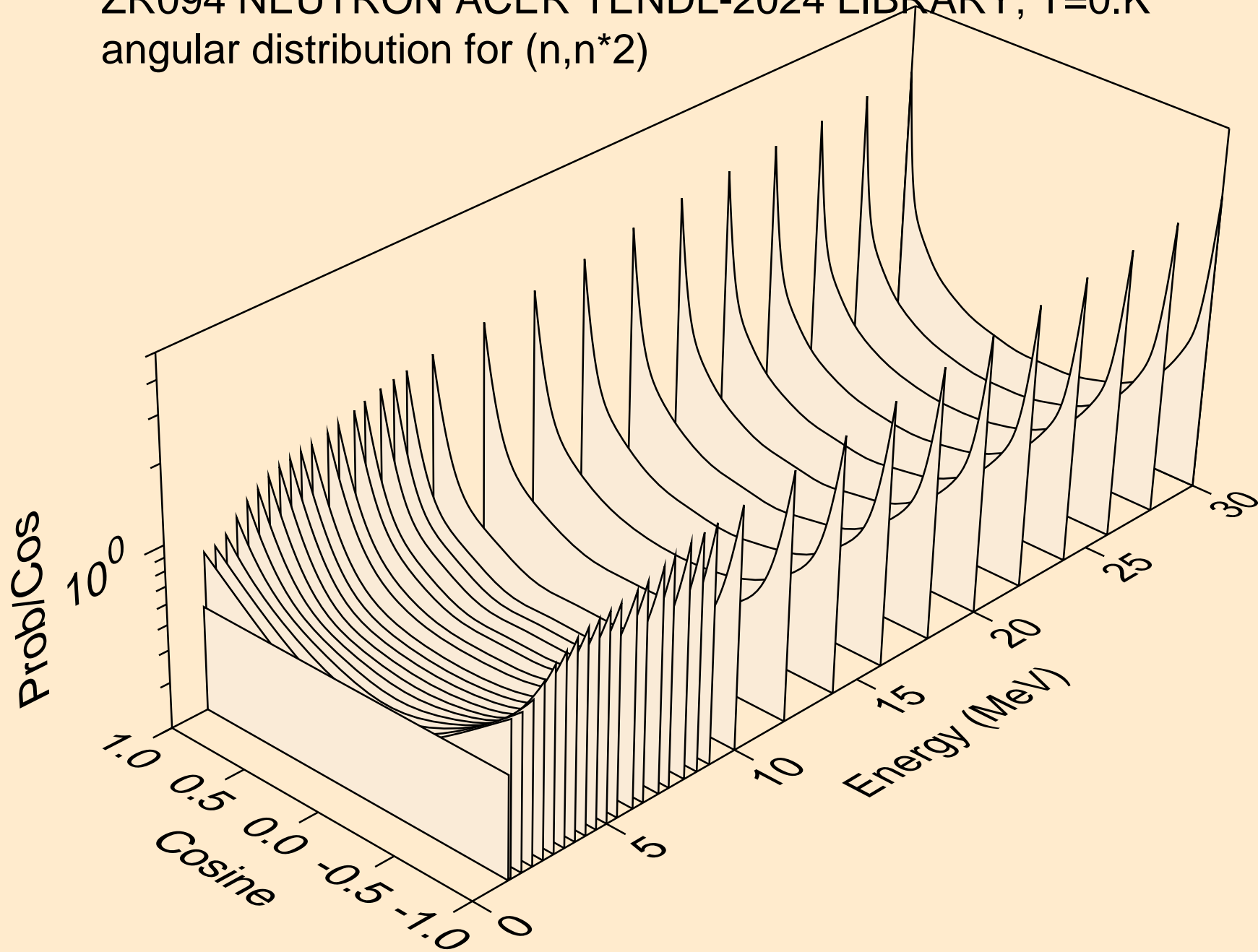
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angular distribution for elastic



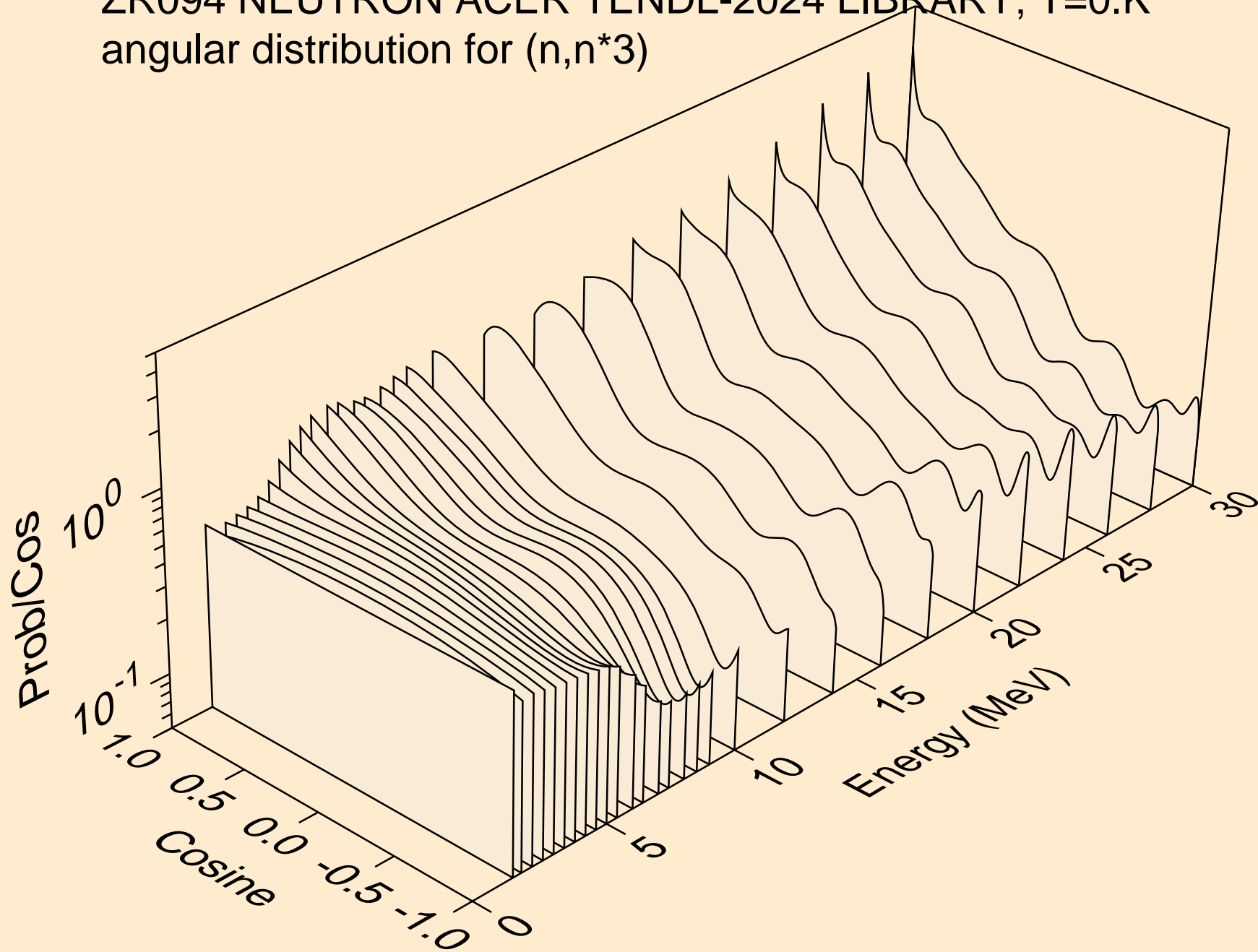
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

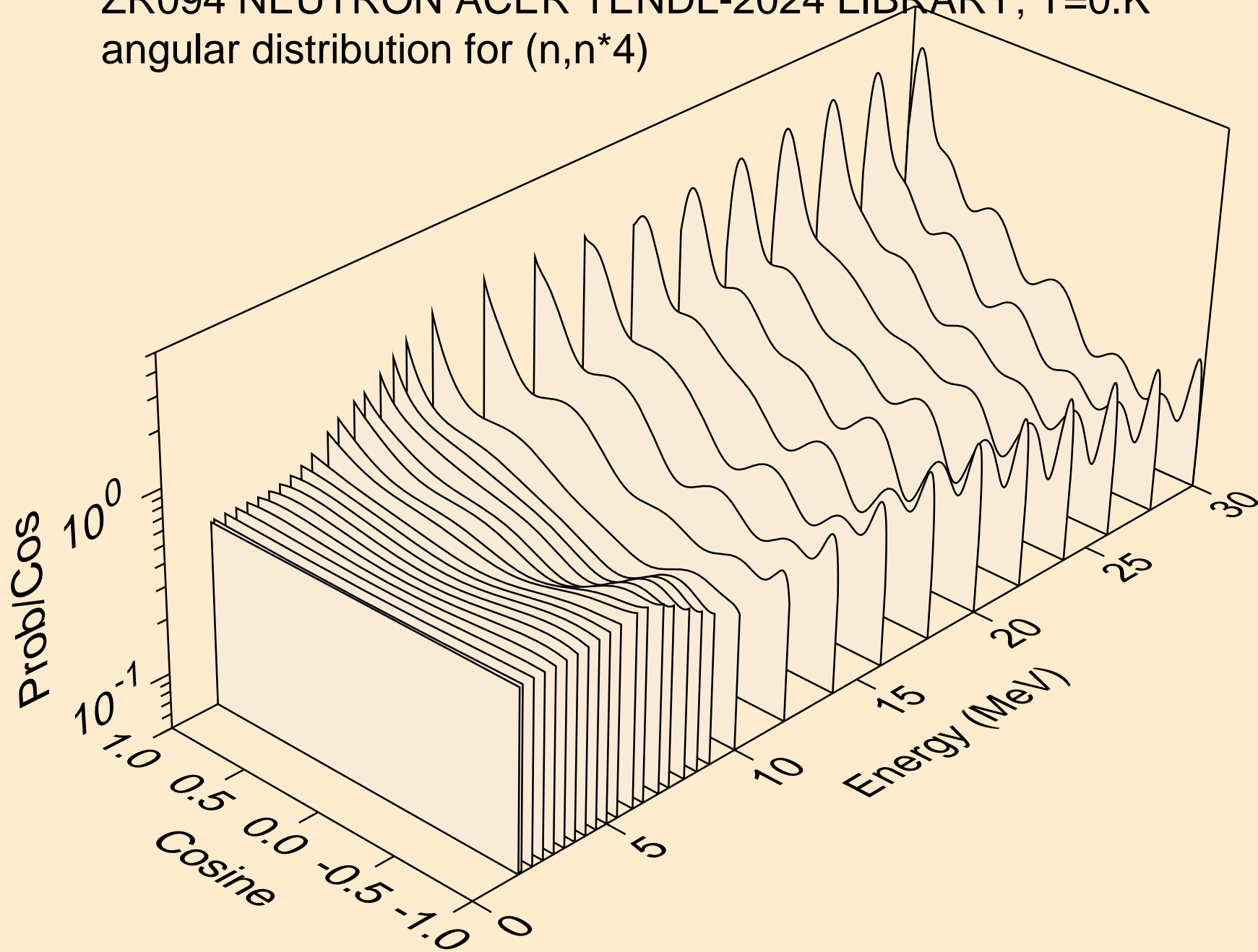


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*3)

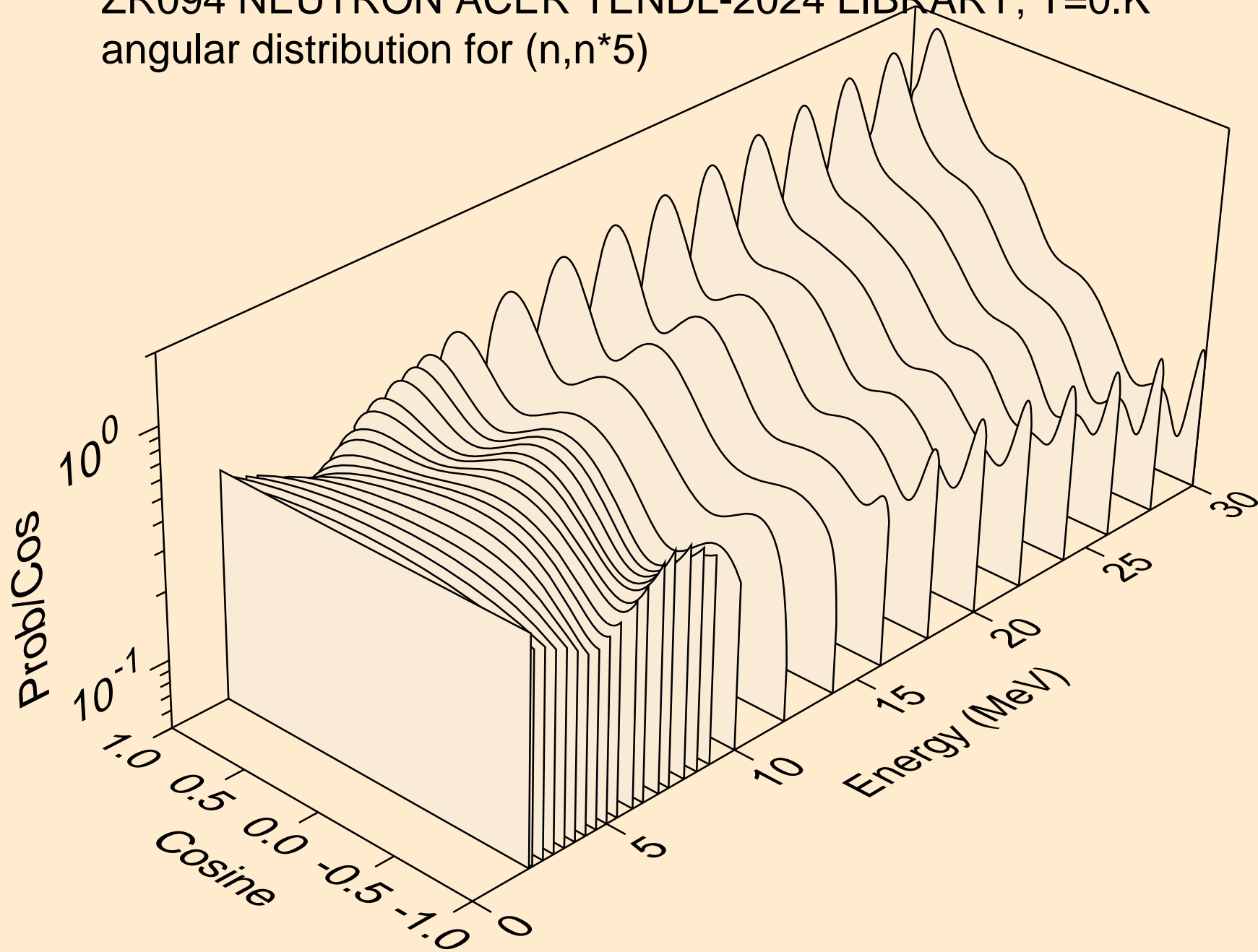




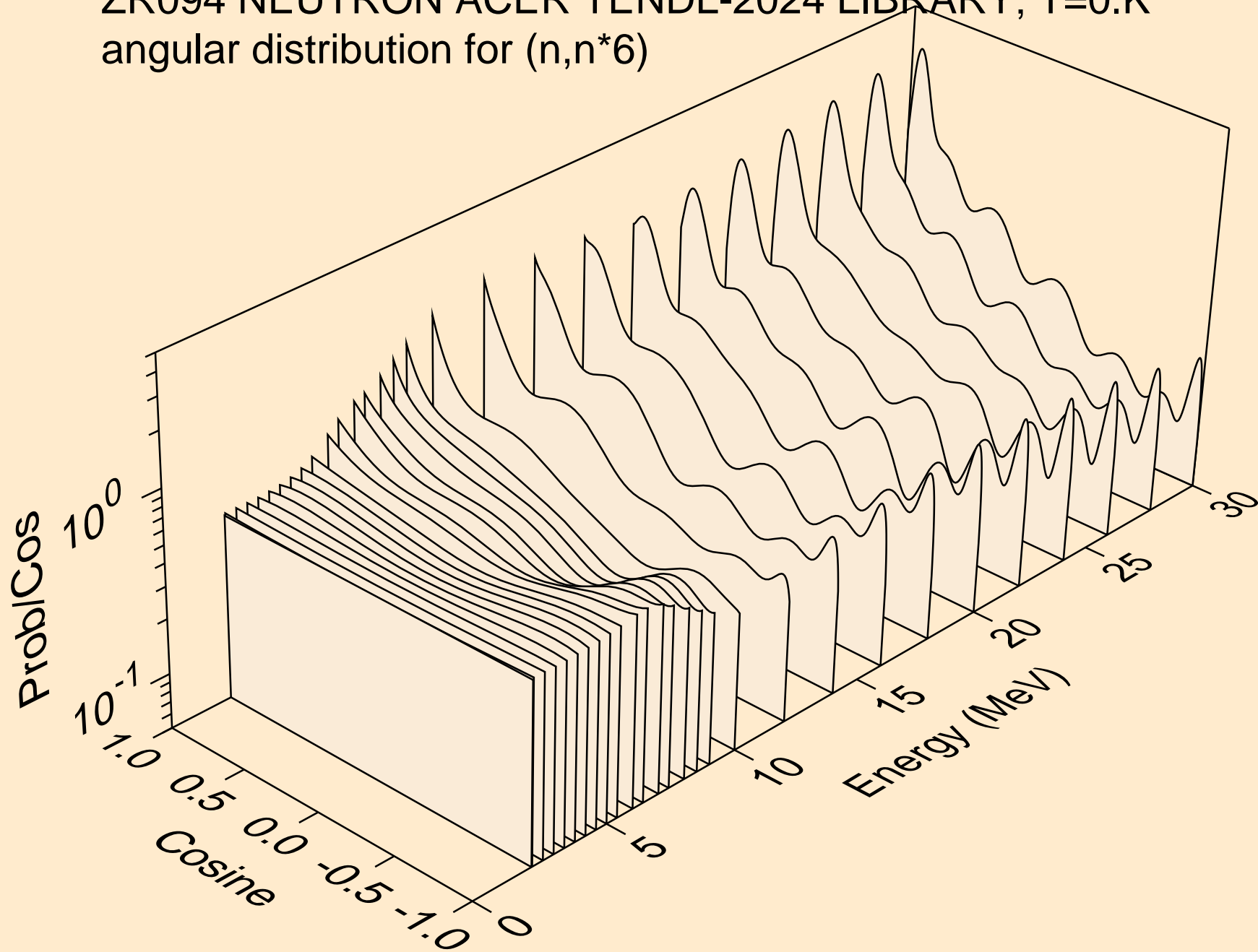
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angular distribution for (n,n\*4)



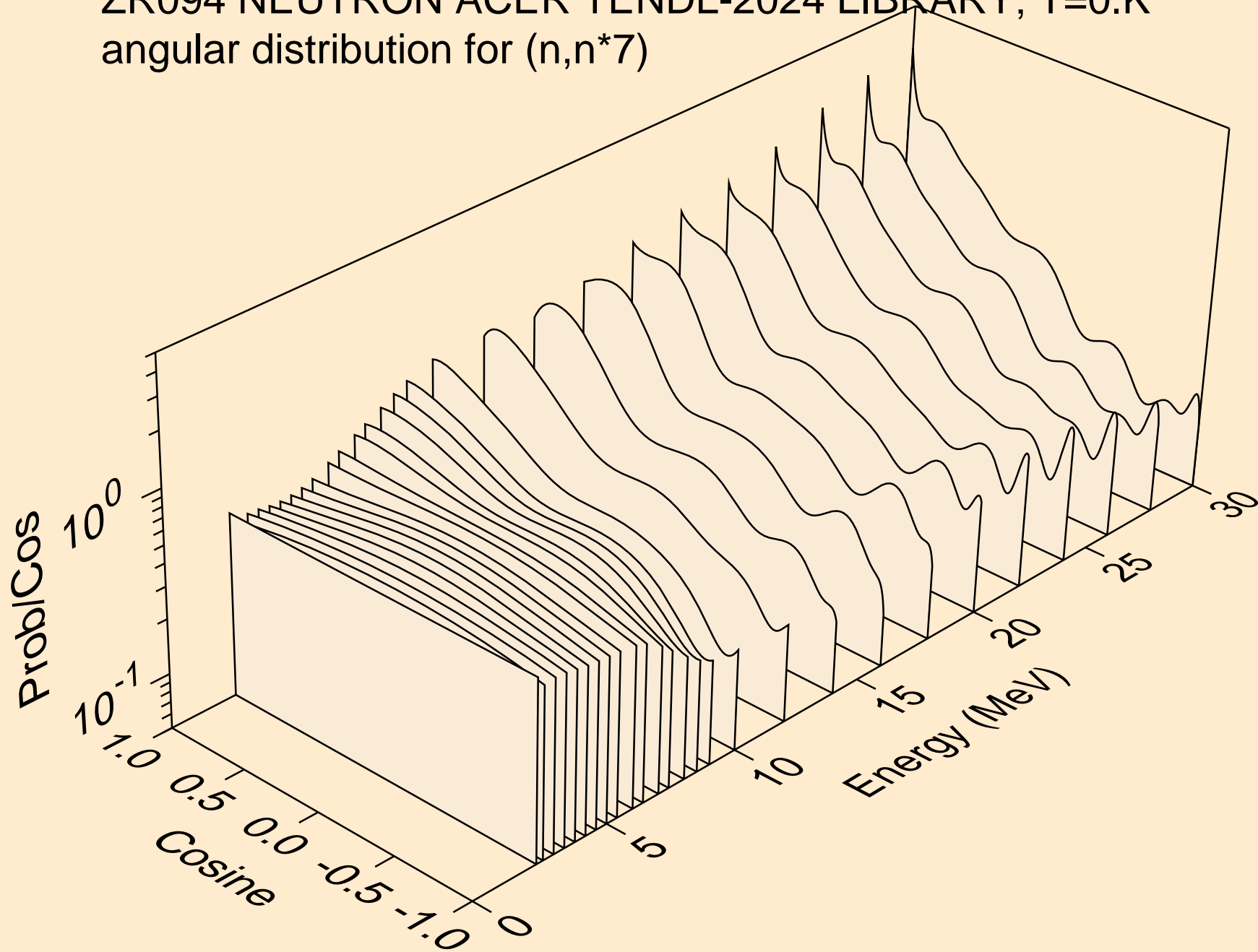
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angular distribution for (n,n\*5)



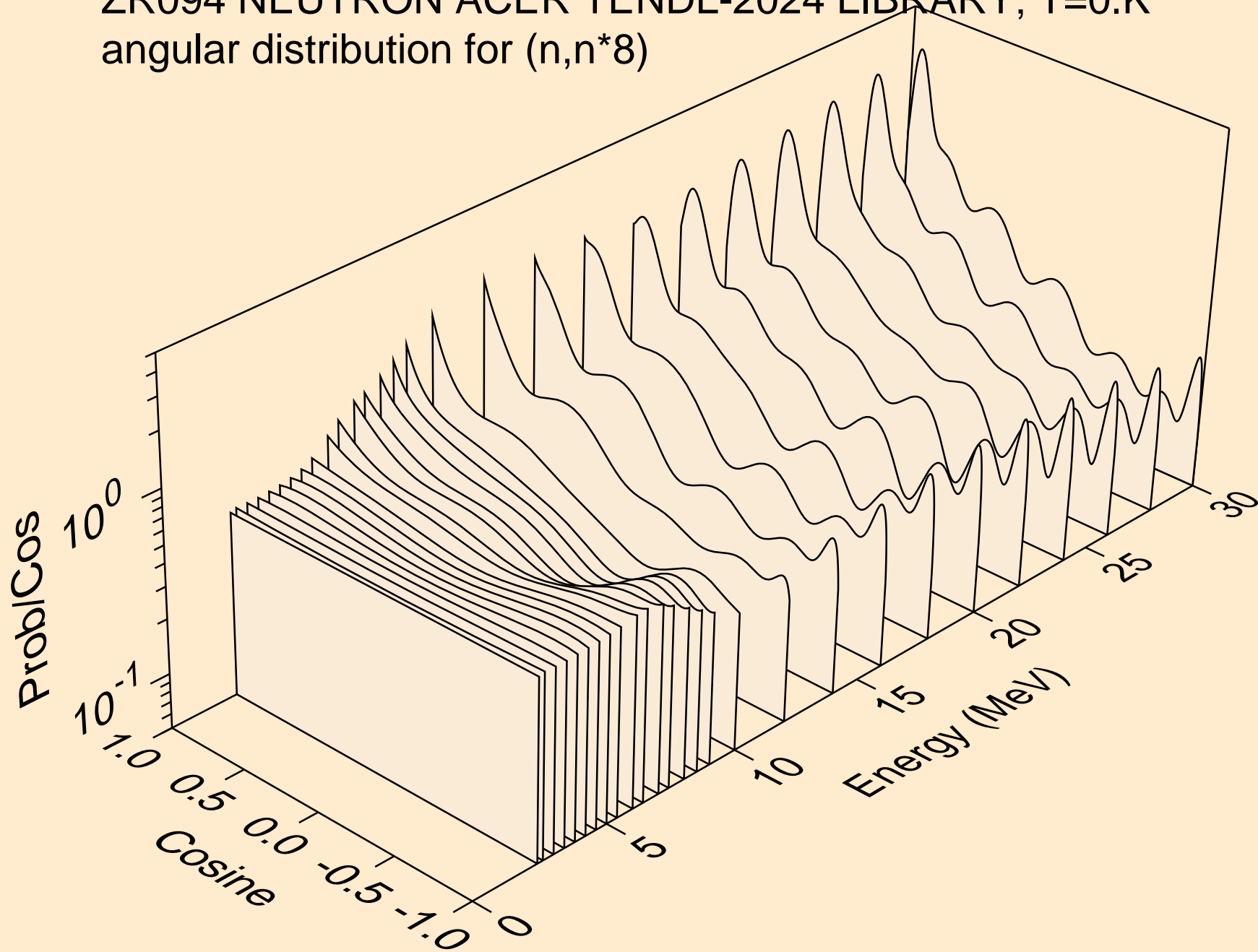
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angular distribution for (n,n\*6)



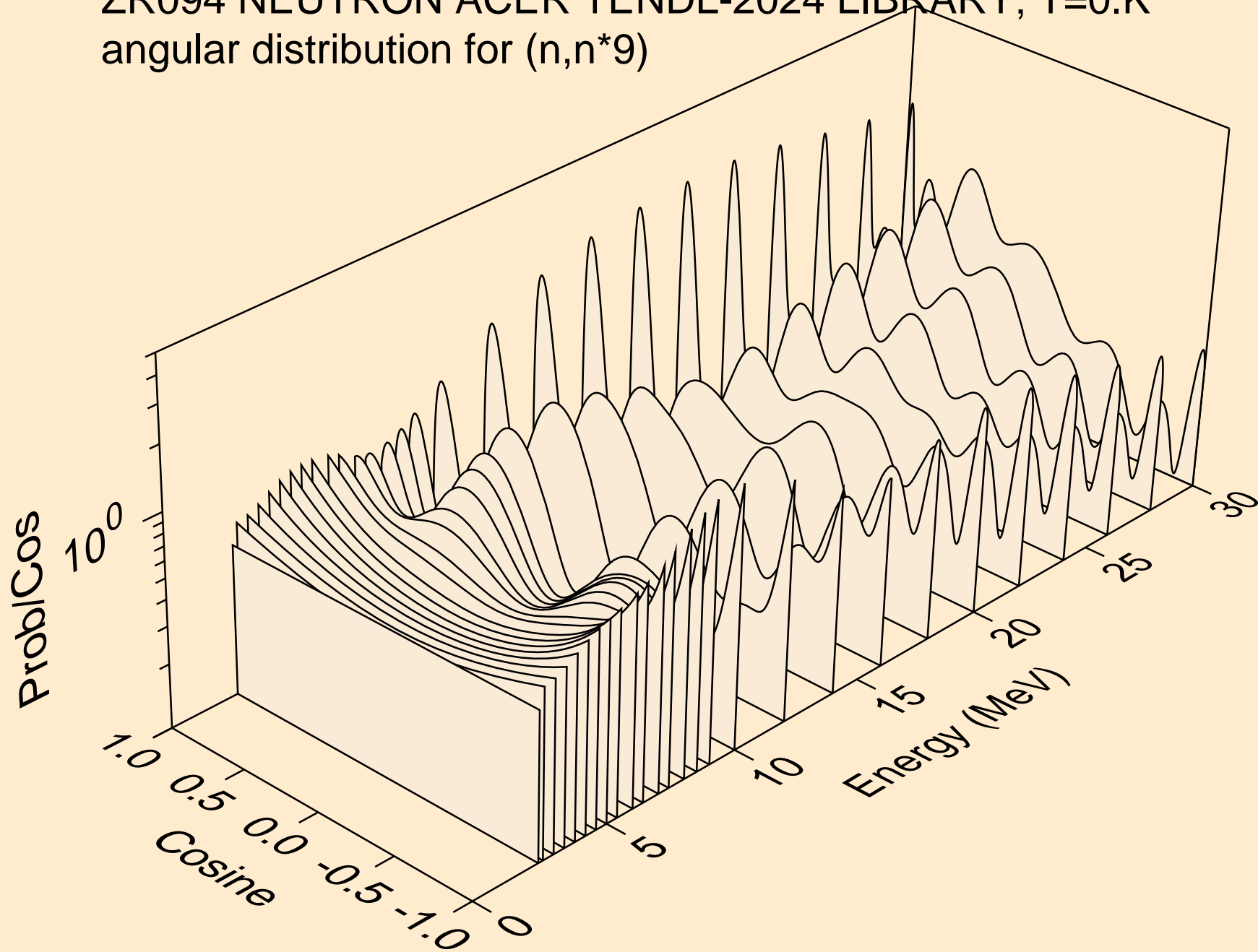
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angular distribution for (n,n\*7)



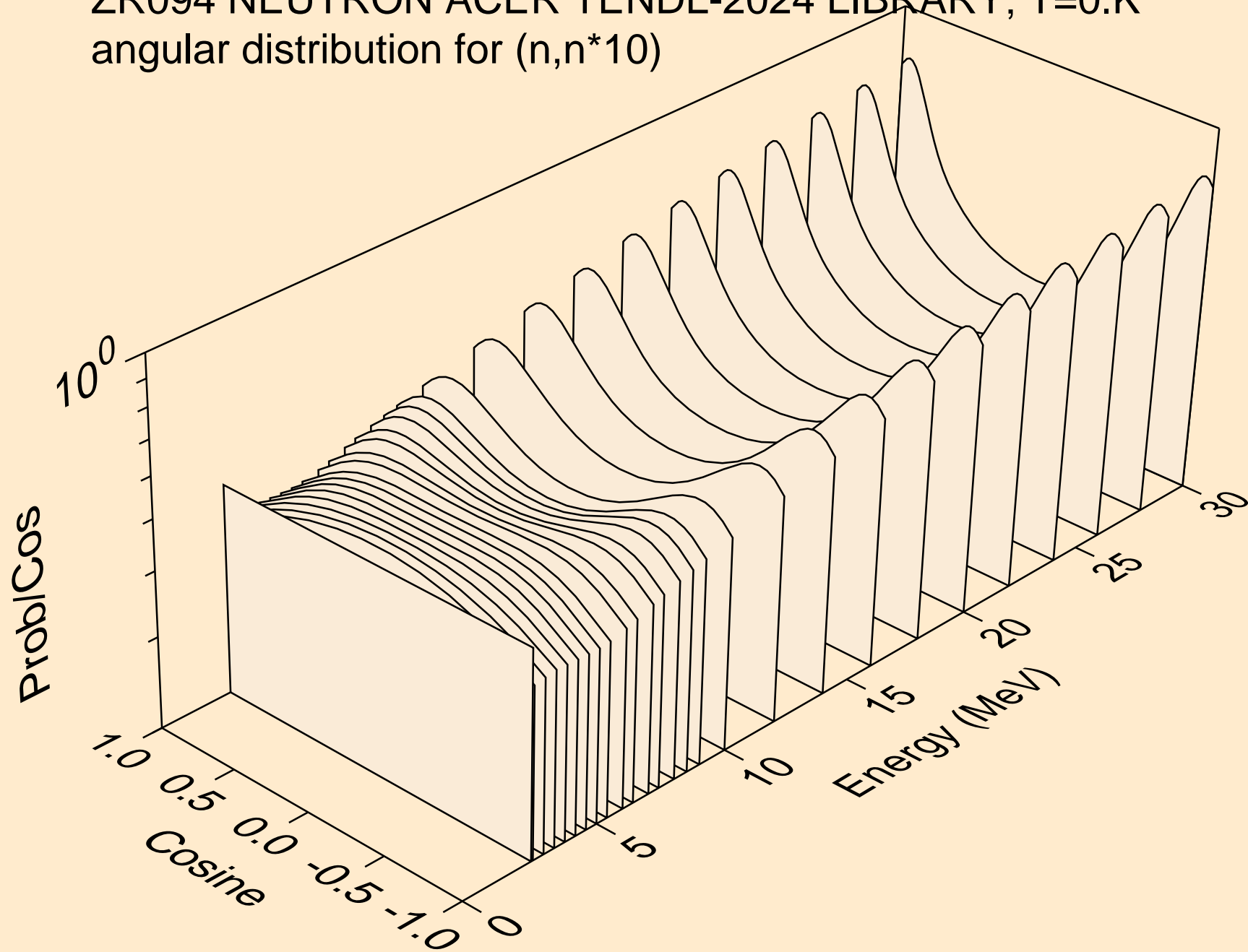
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angular distribution for (n,n\*8)



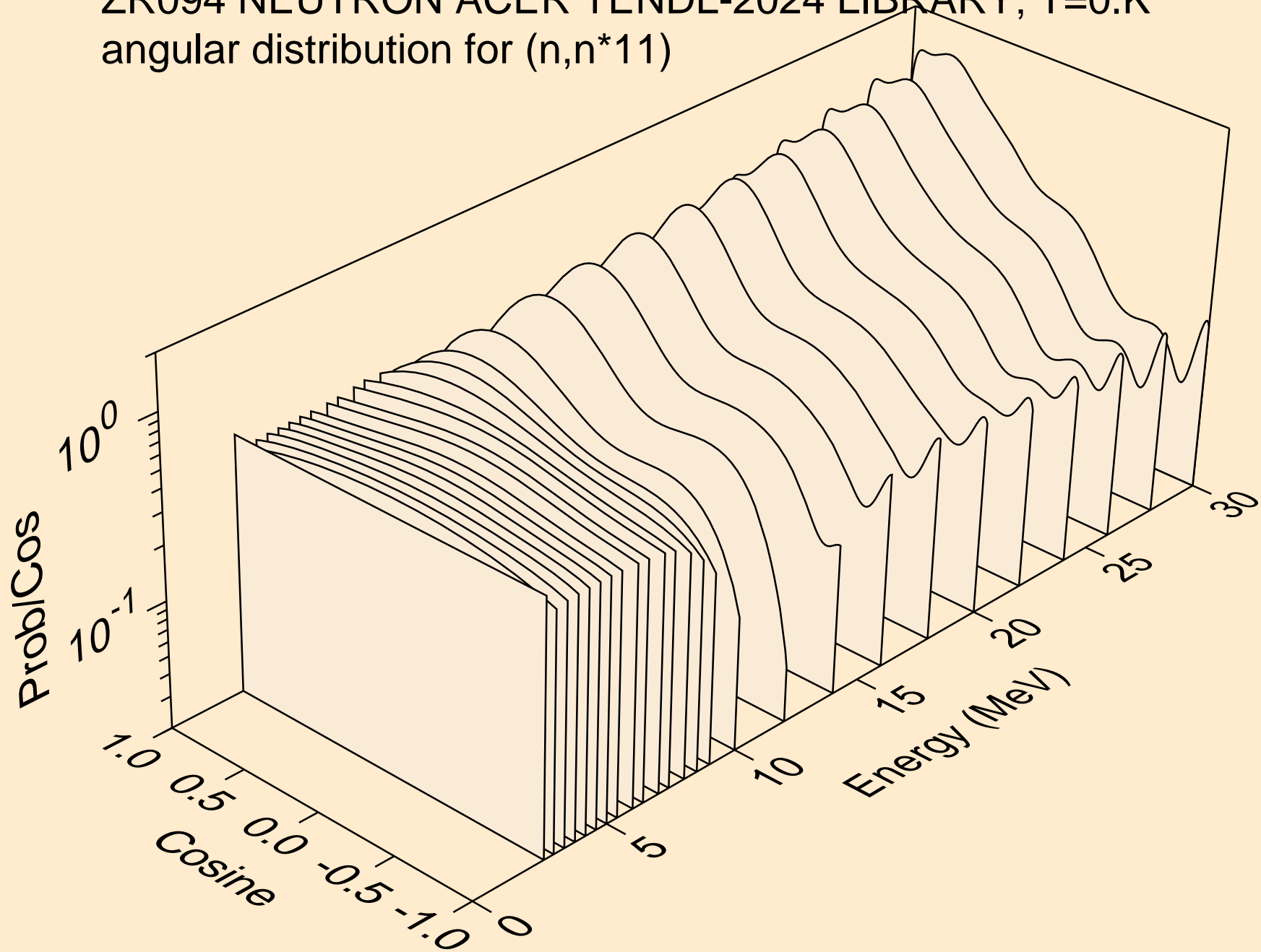
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

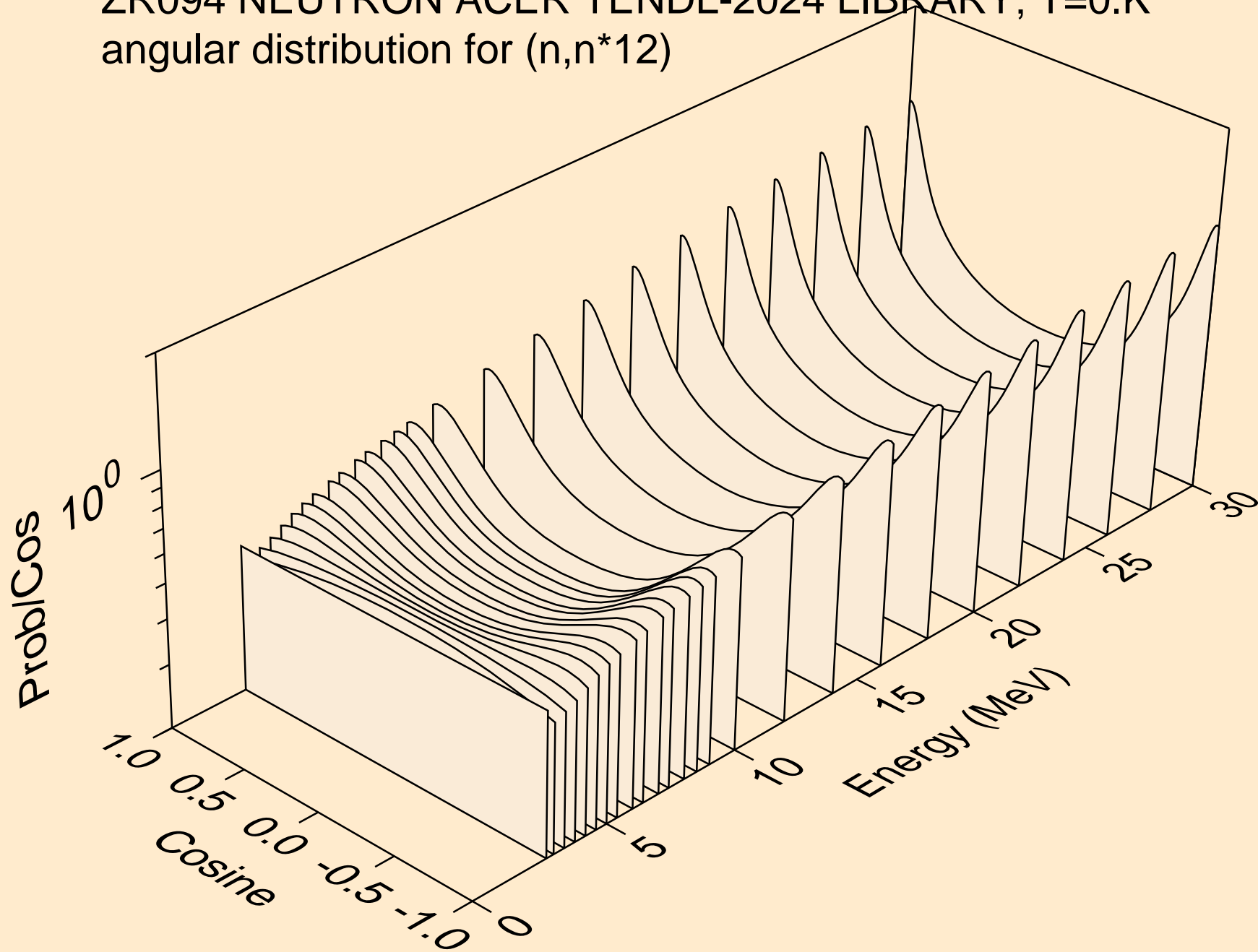


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*11)

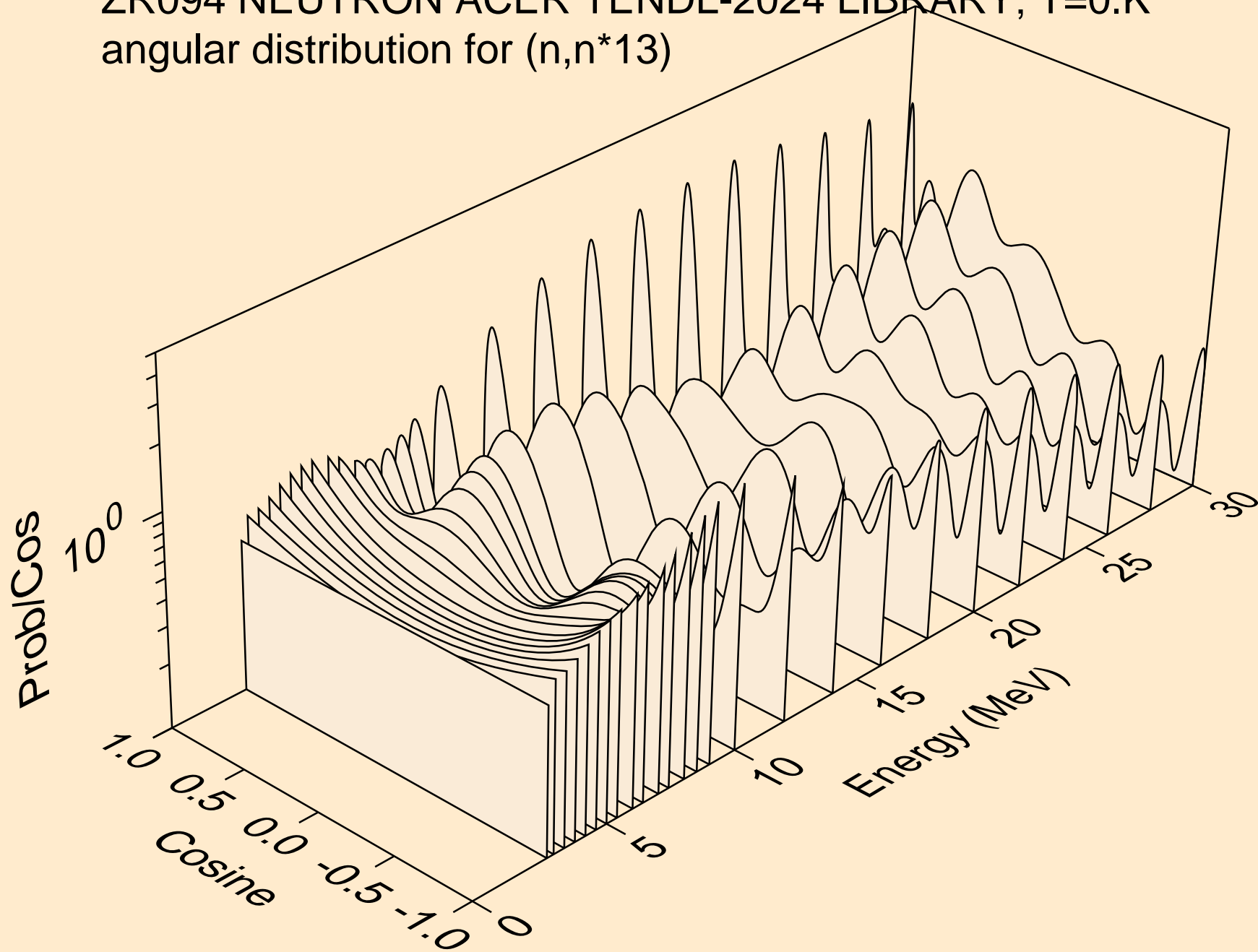




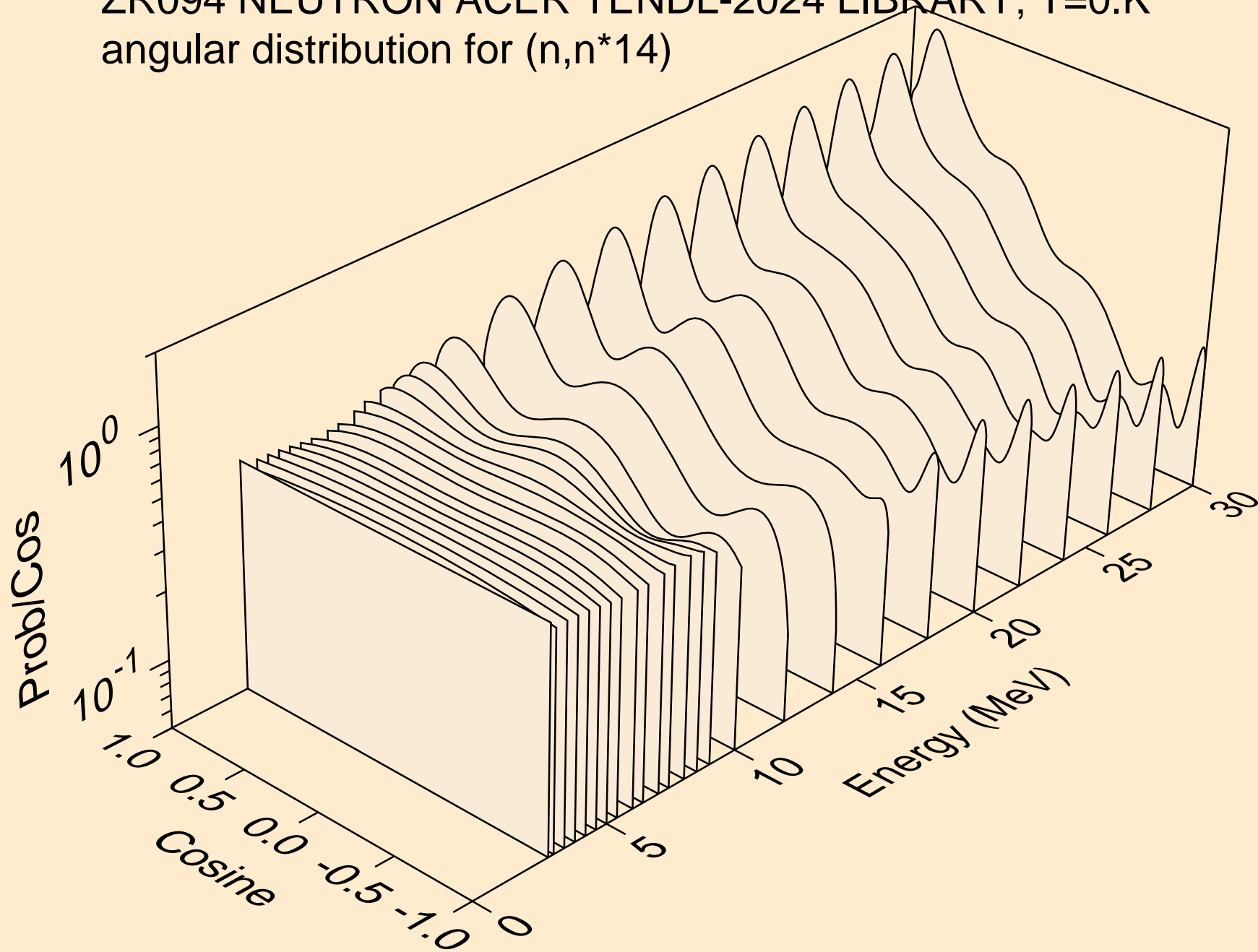
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angular distribution for (n,n\*12)



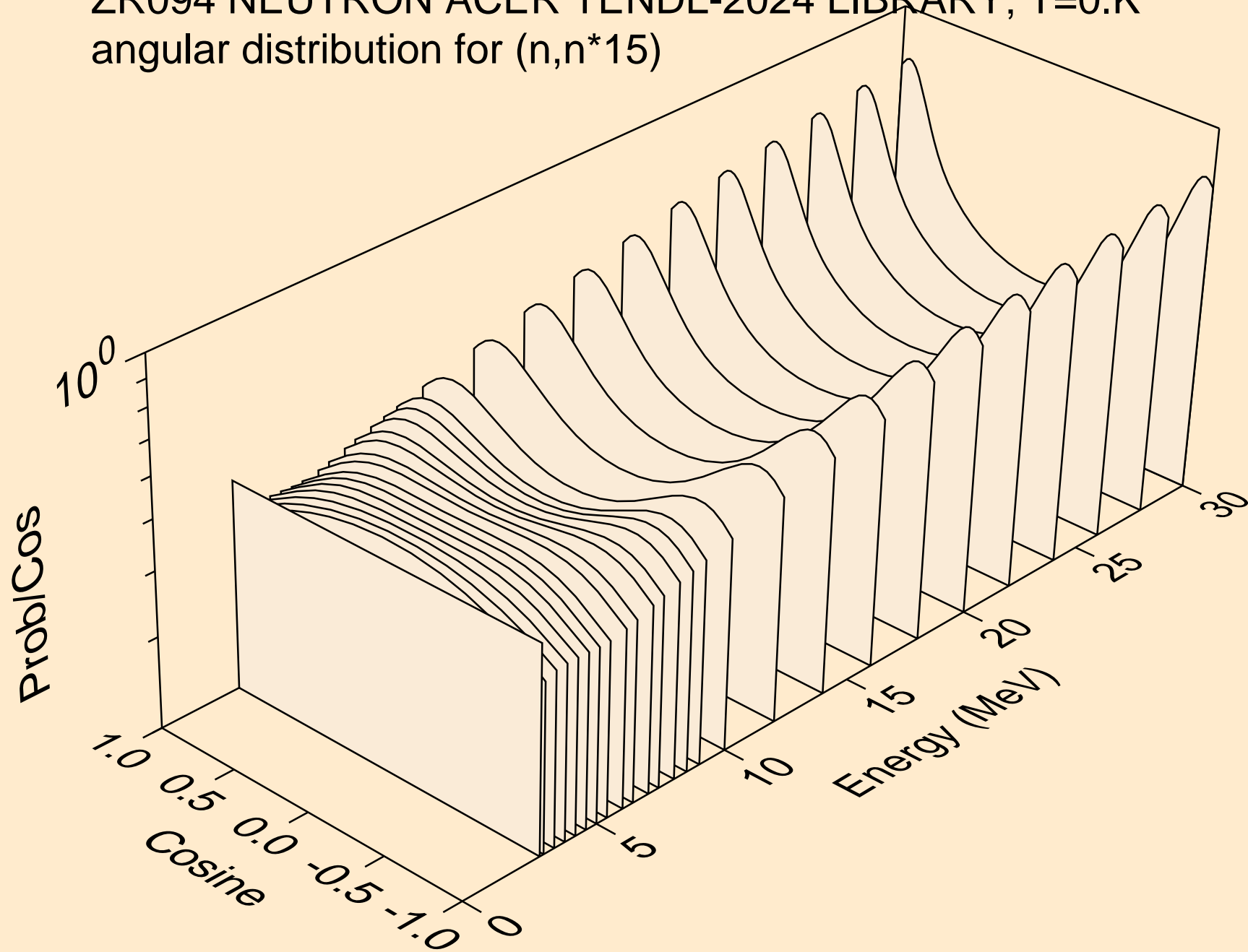
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angular distribution for (n,n\*13)



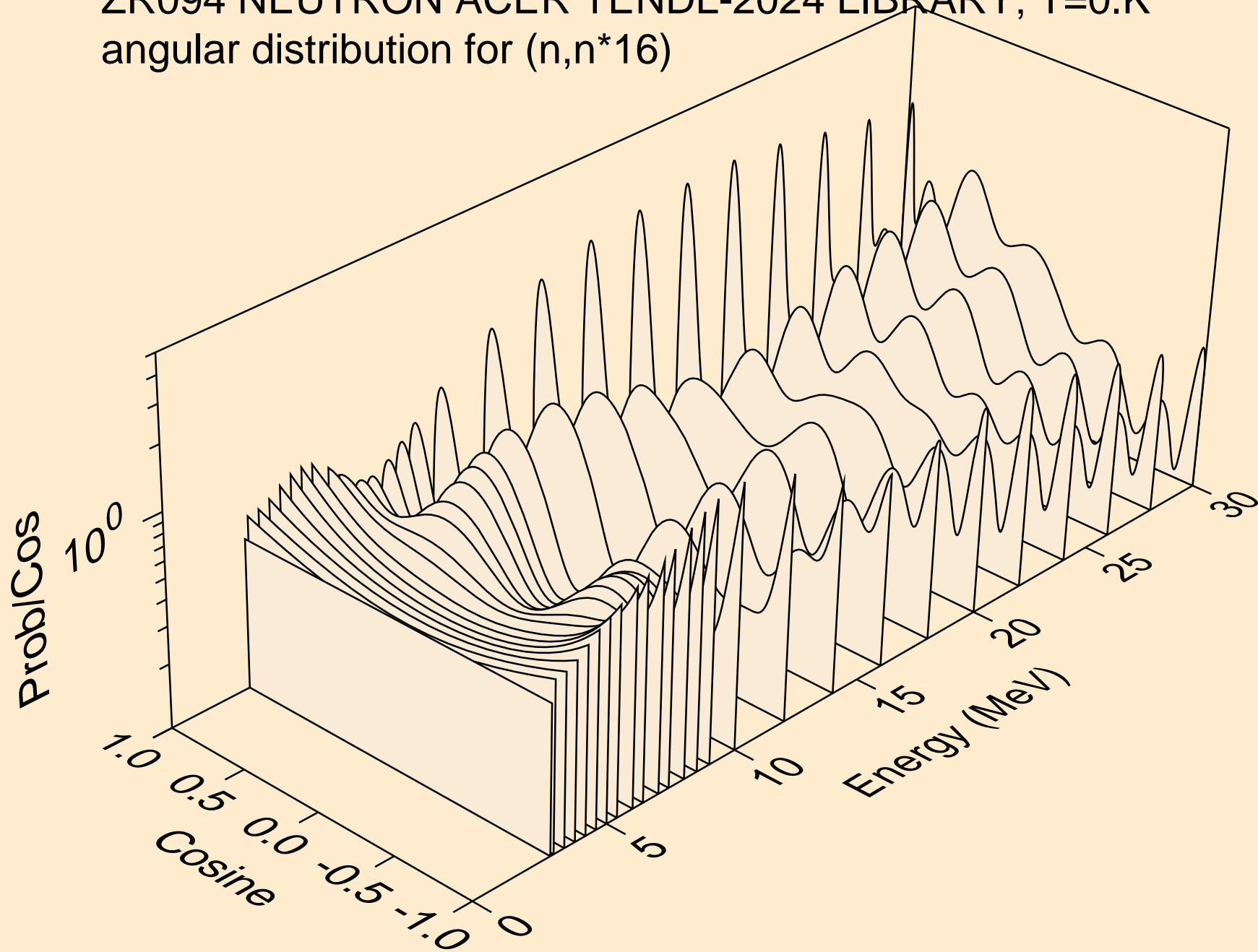
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angular distribution for (n,n\*14)



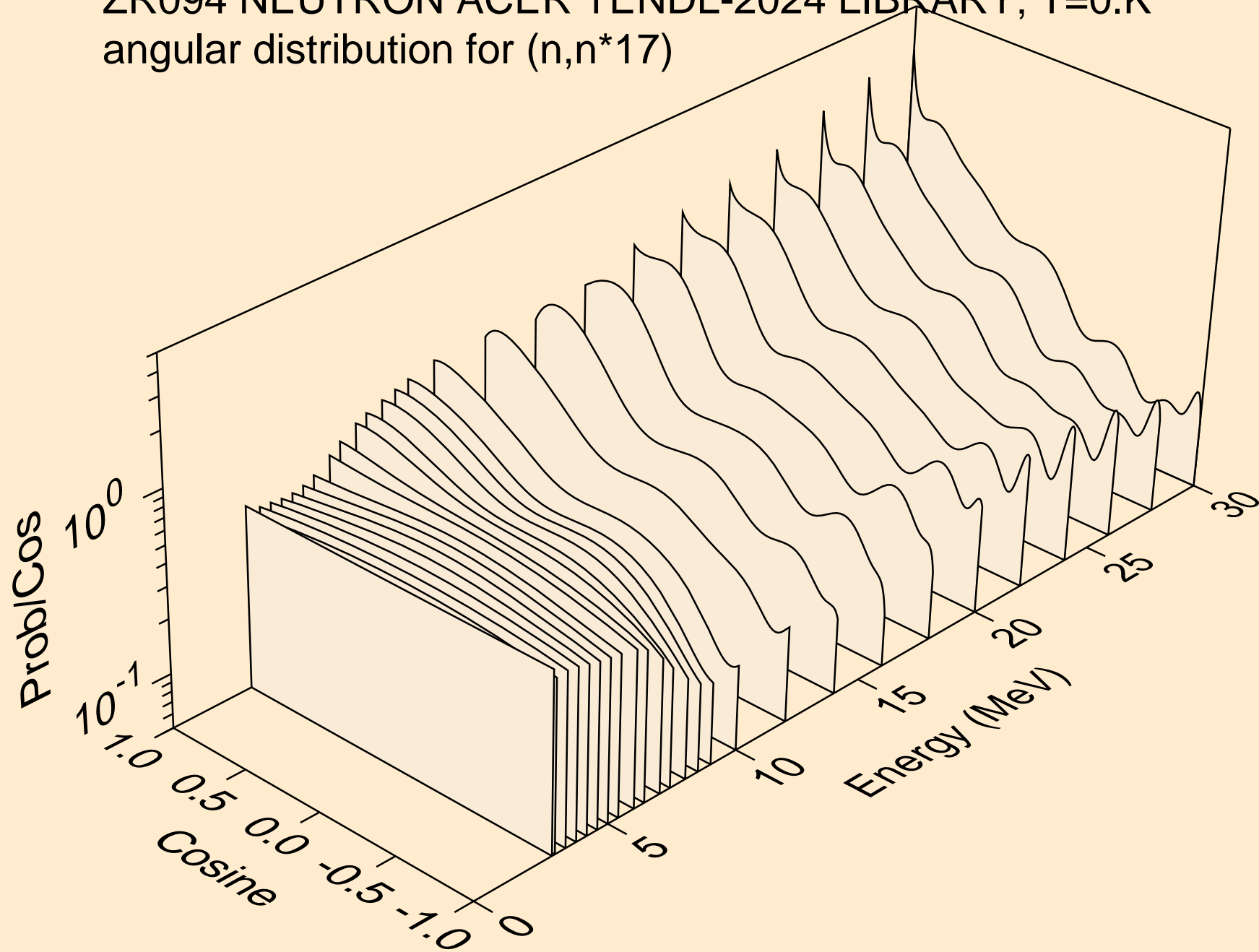
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angular distribution for (n,n\*15)



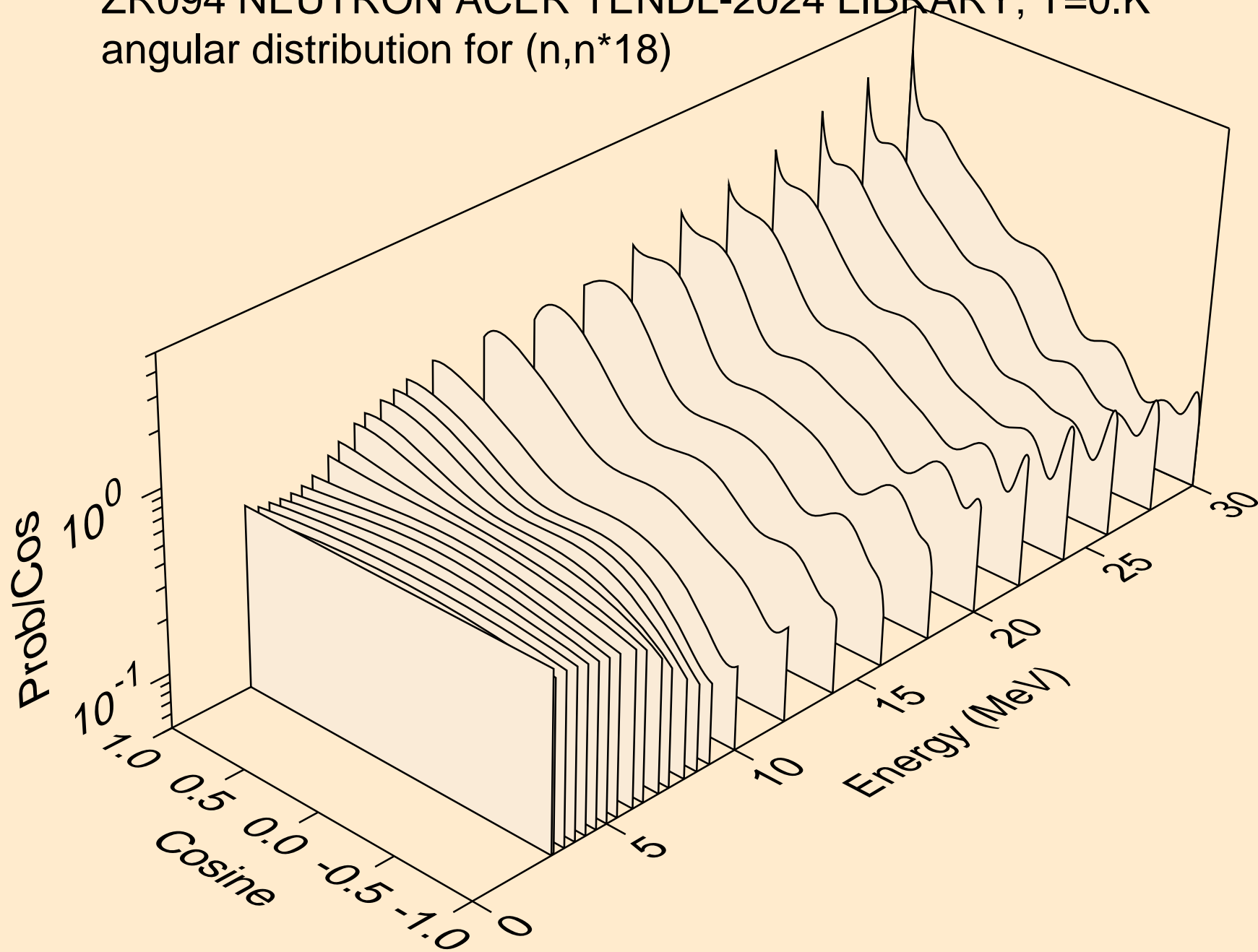
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angular distribution for (n,n\*16)



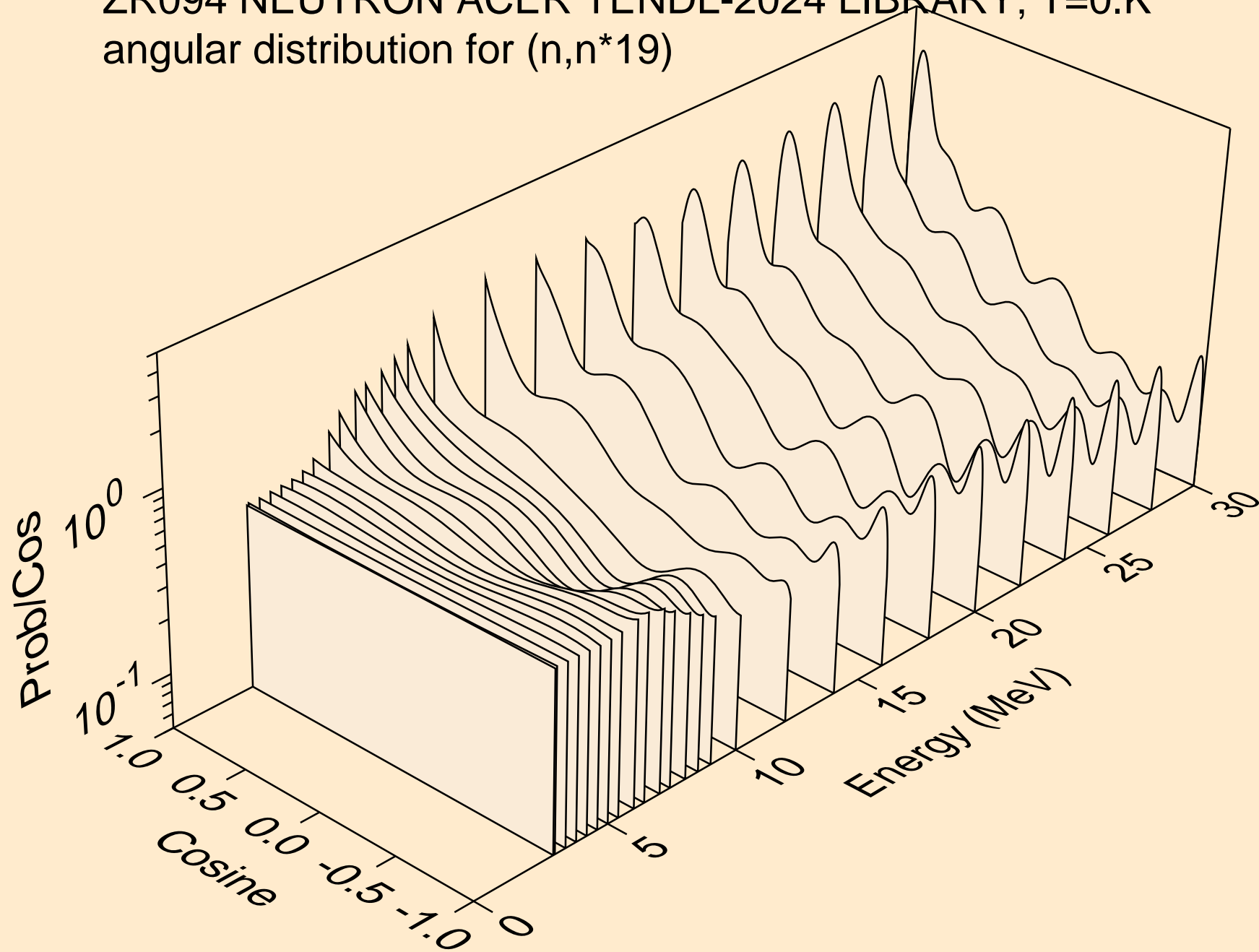
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

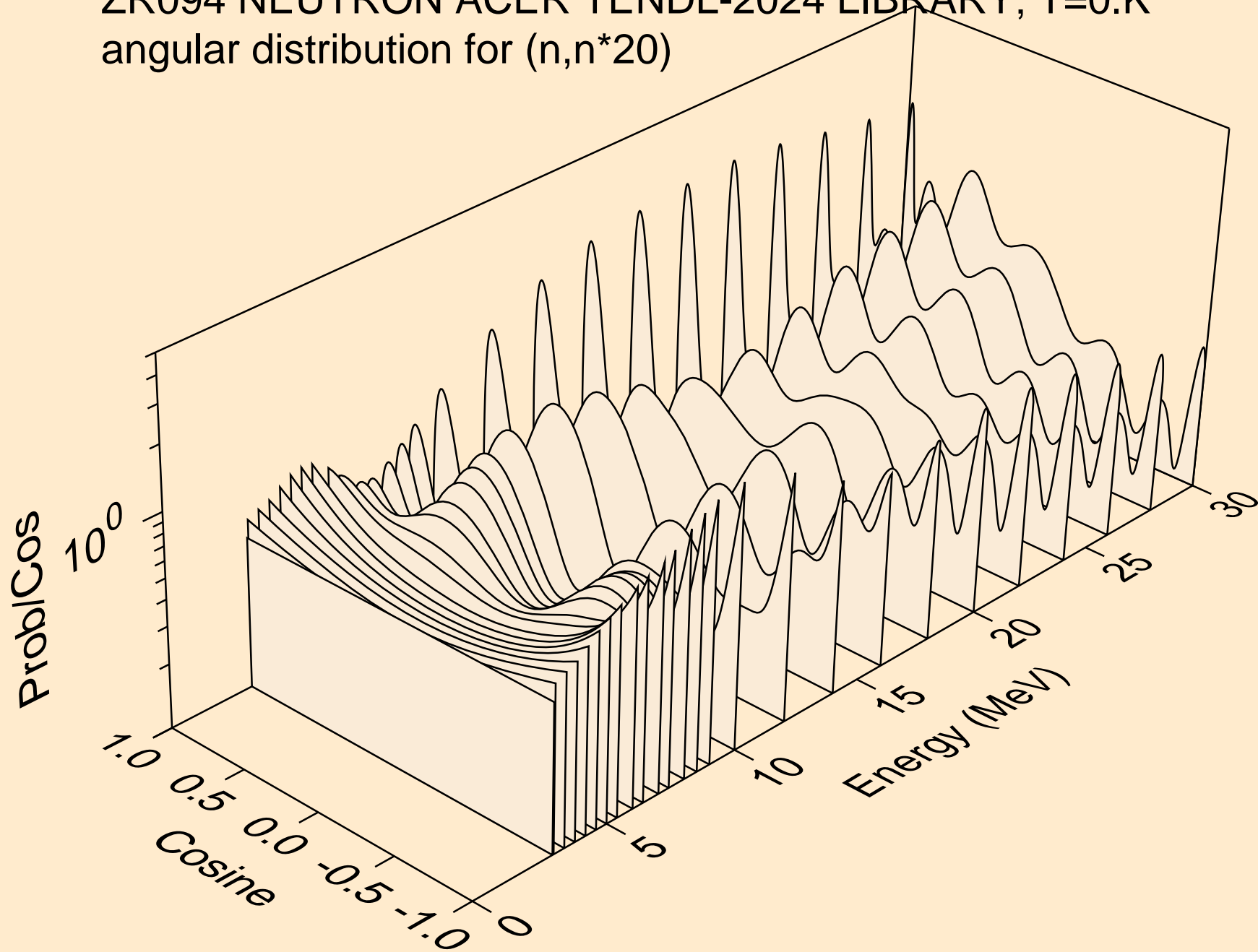


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*19)

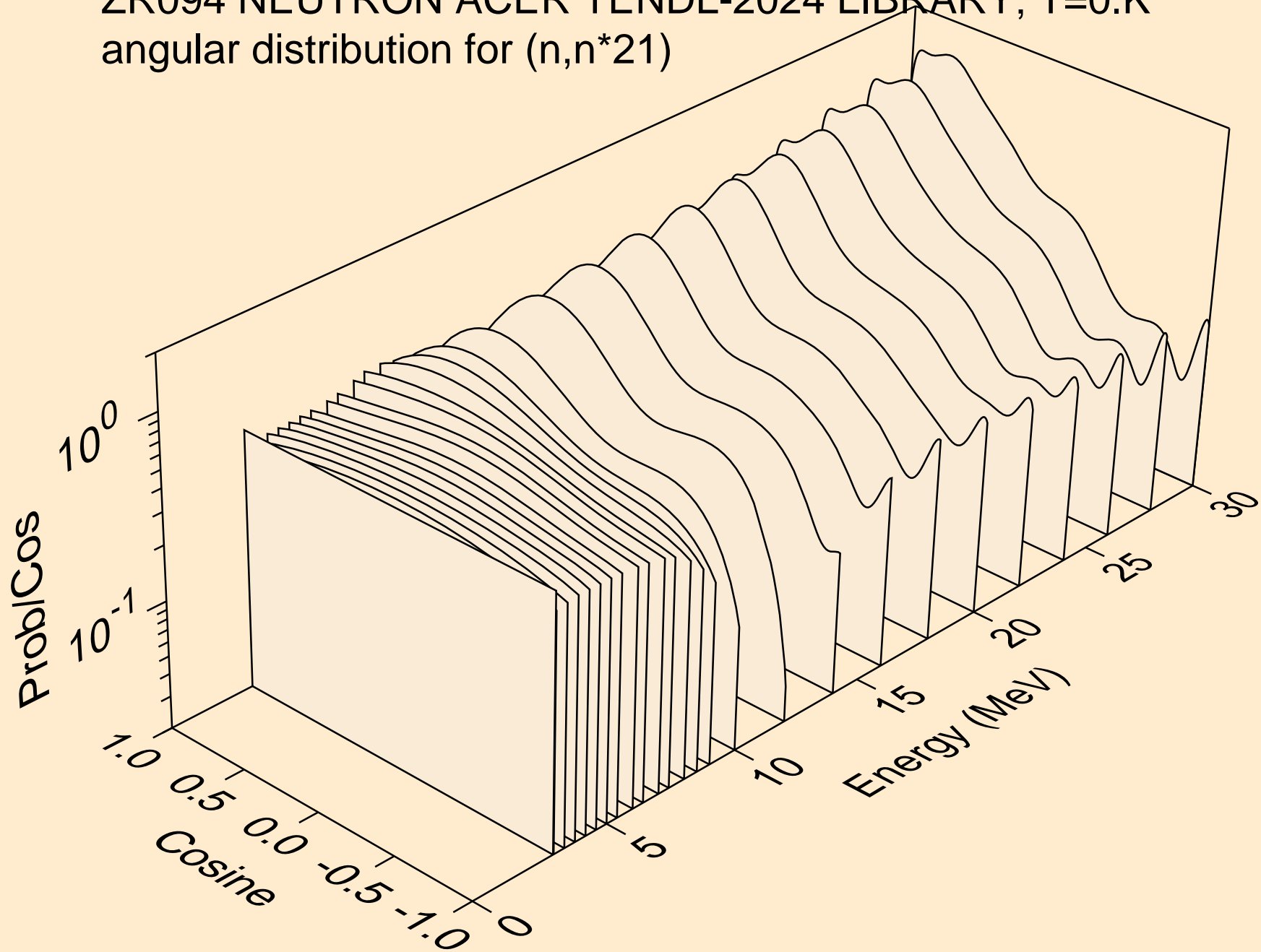




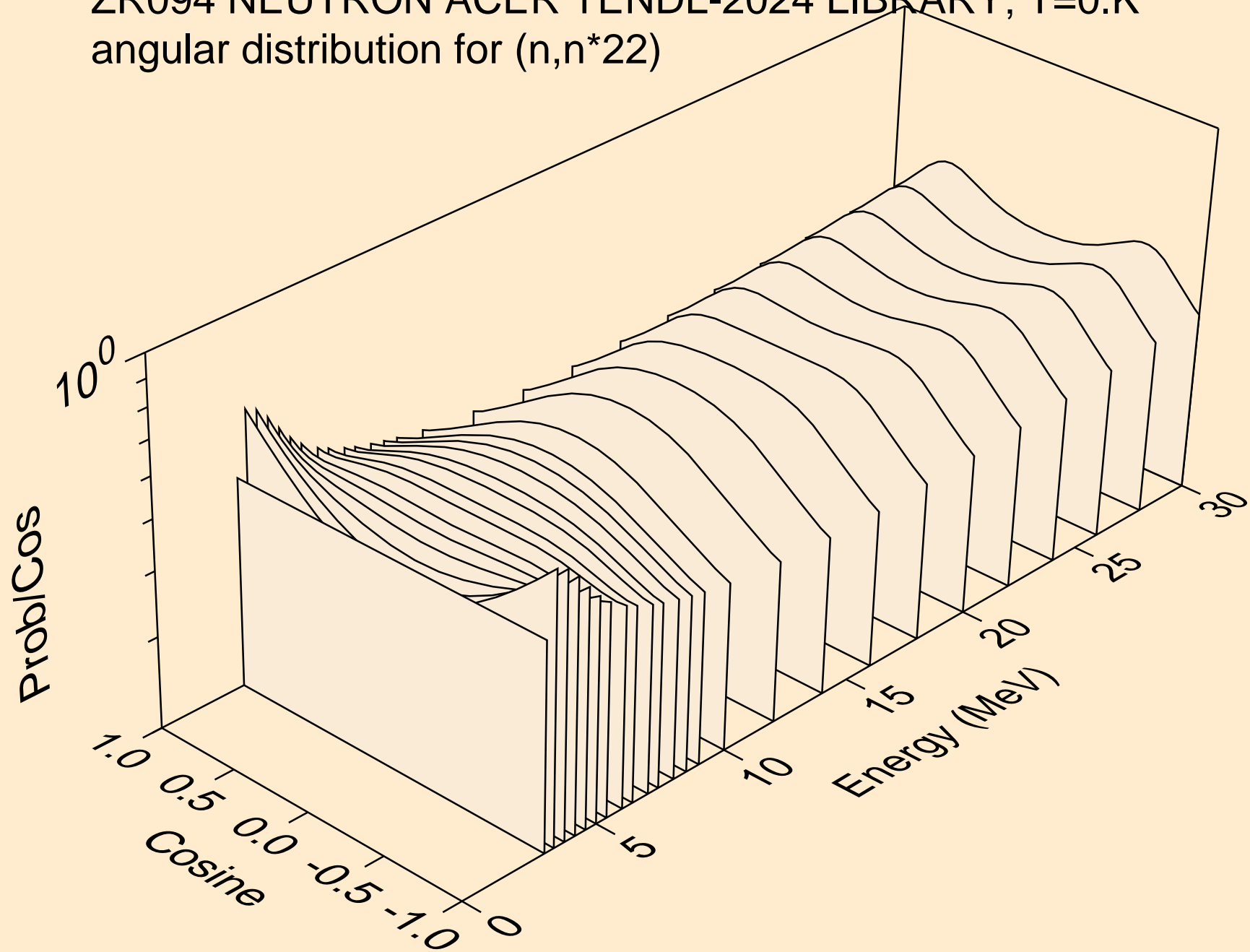
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angular distribution for (n,n\*20)



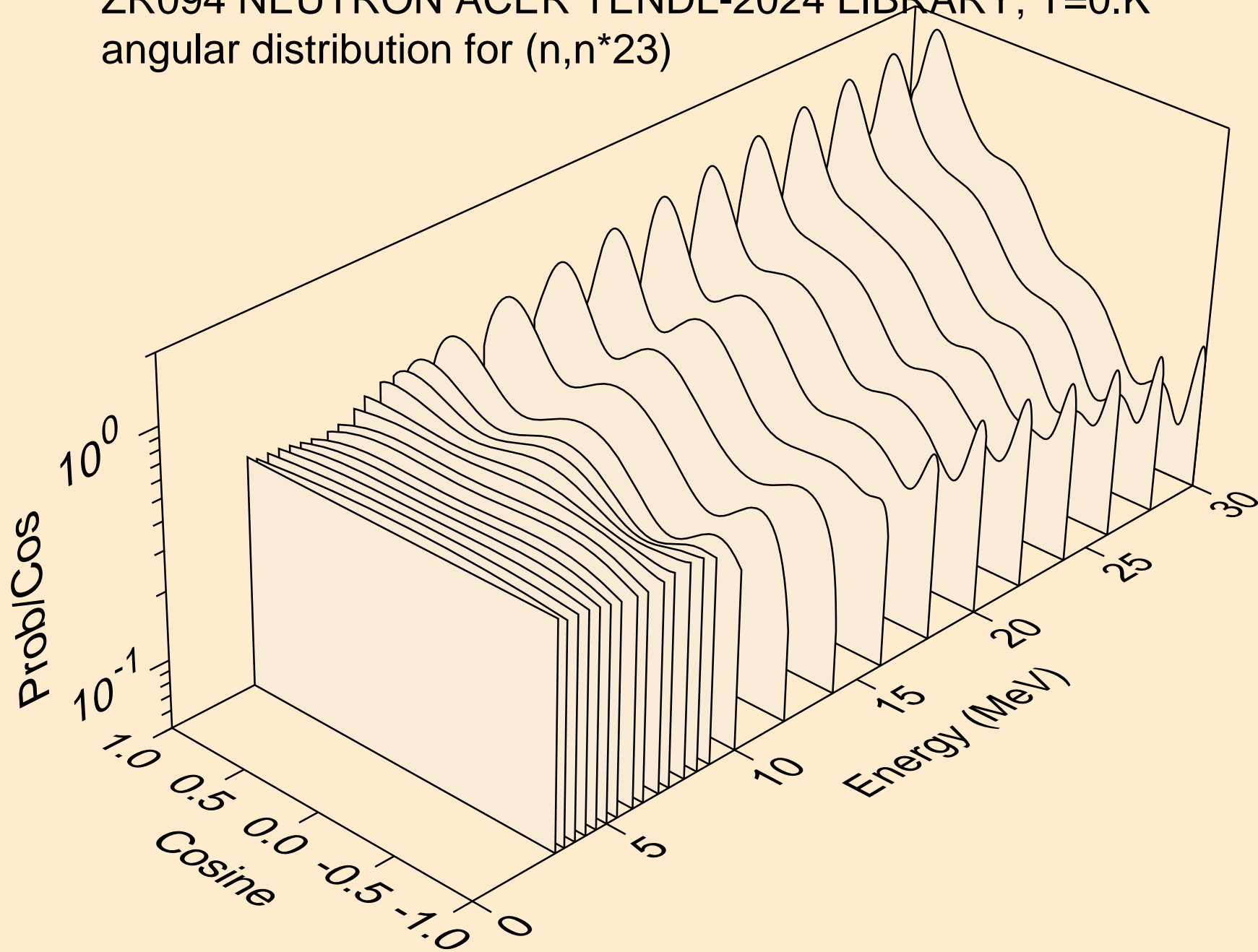
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angular distribution for (n,n\*21)



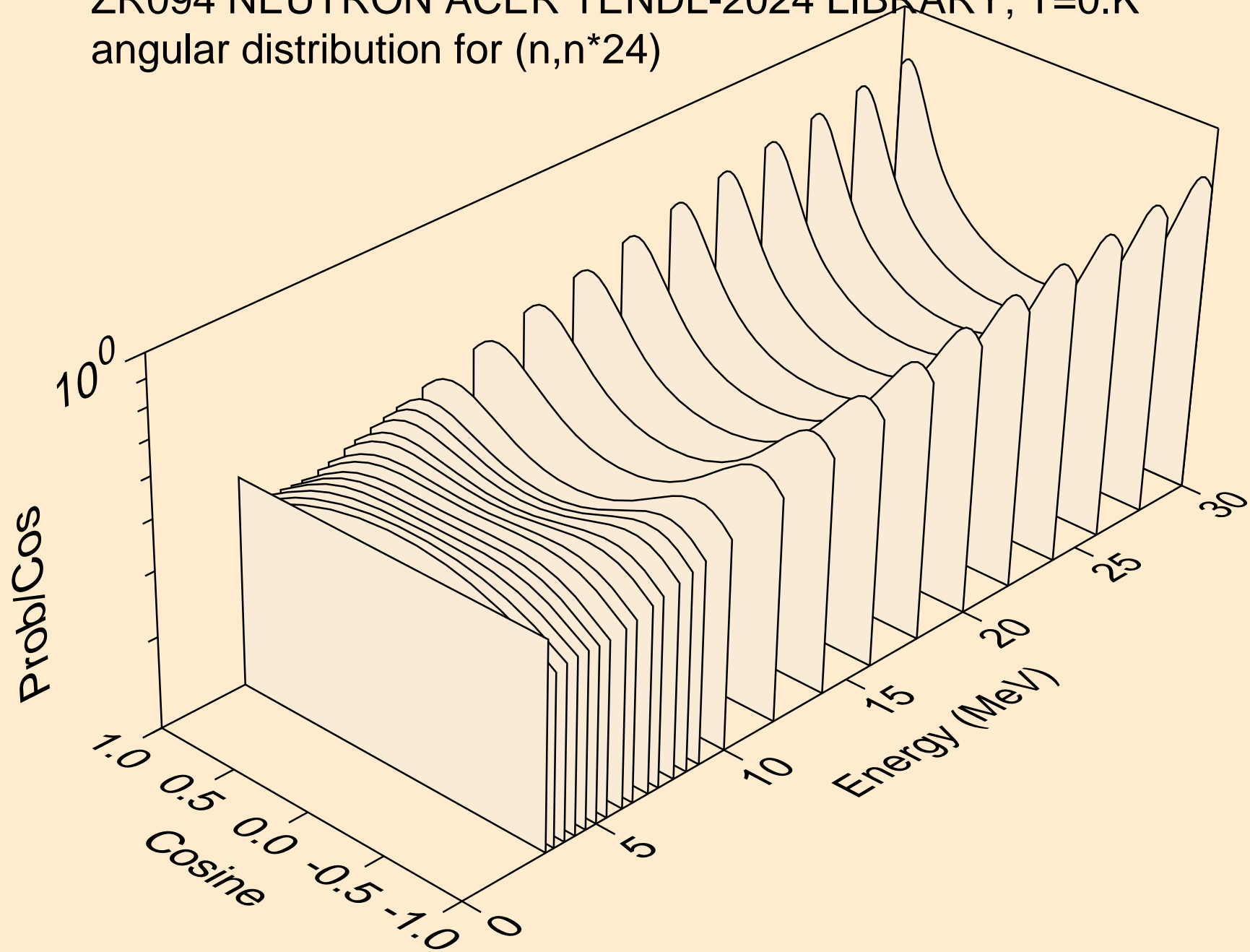
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angular distribution for (n,n\*22)



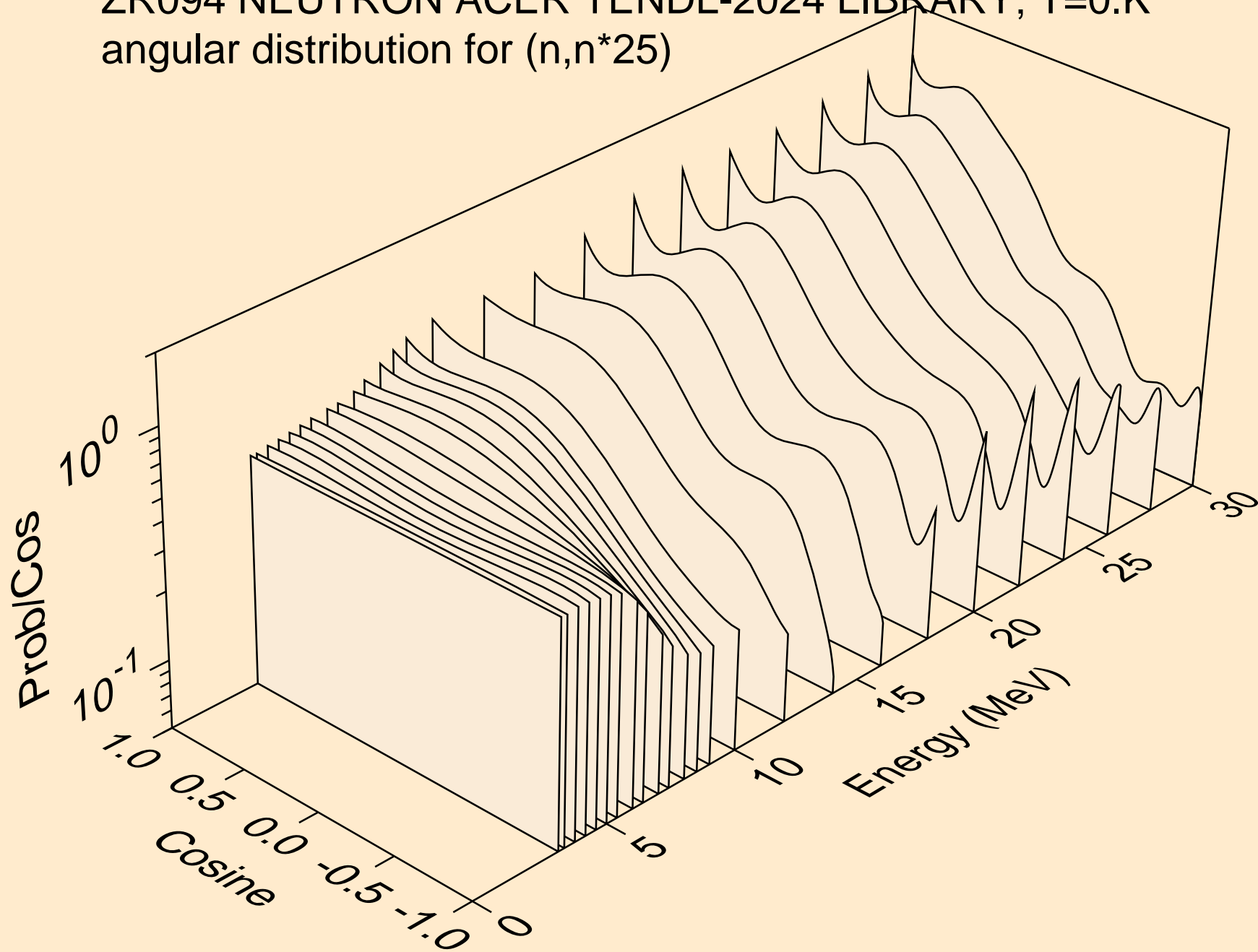
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angular distribution for (n,n\*23)



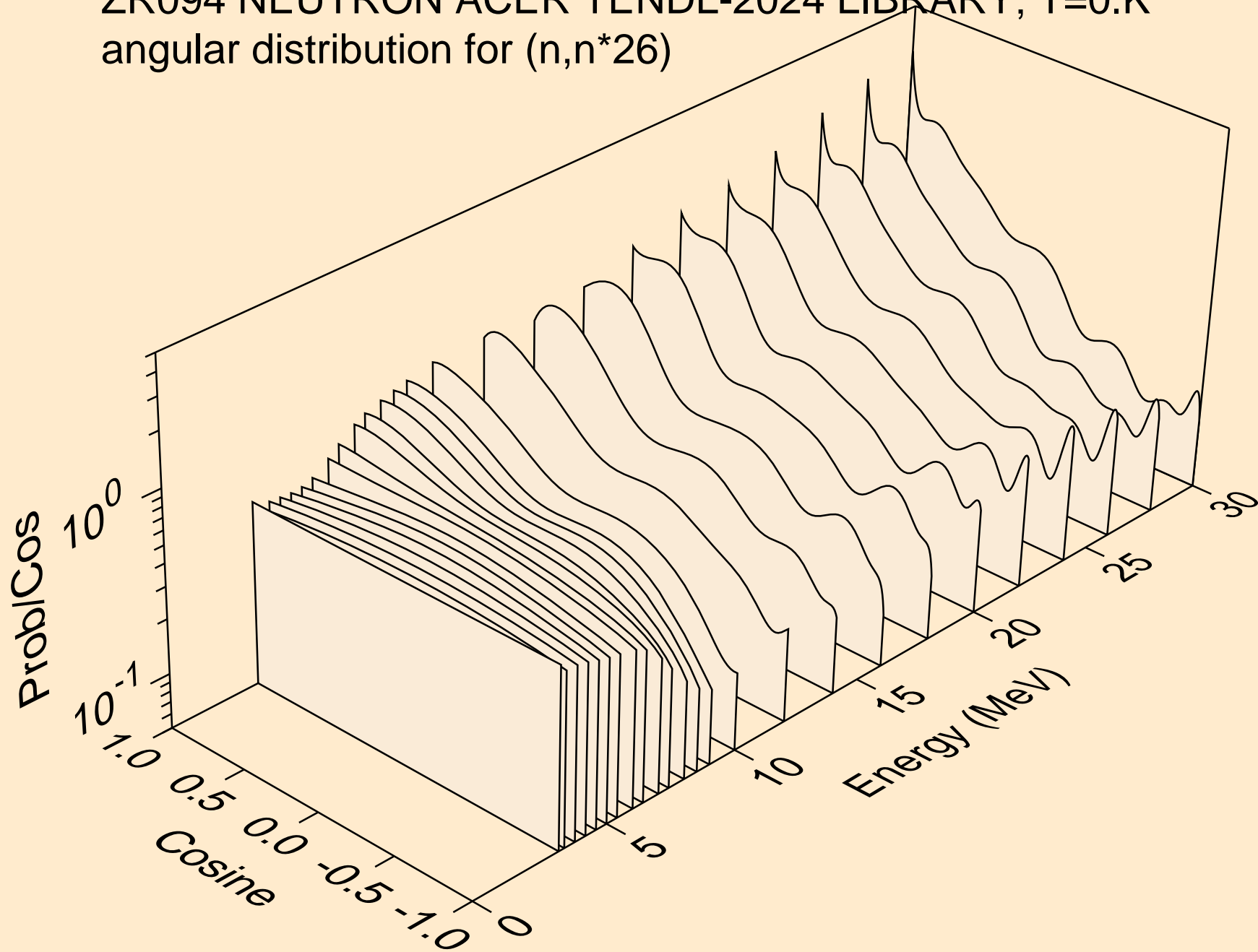
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angular distribution for (n,n\*24)



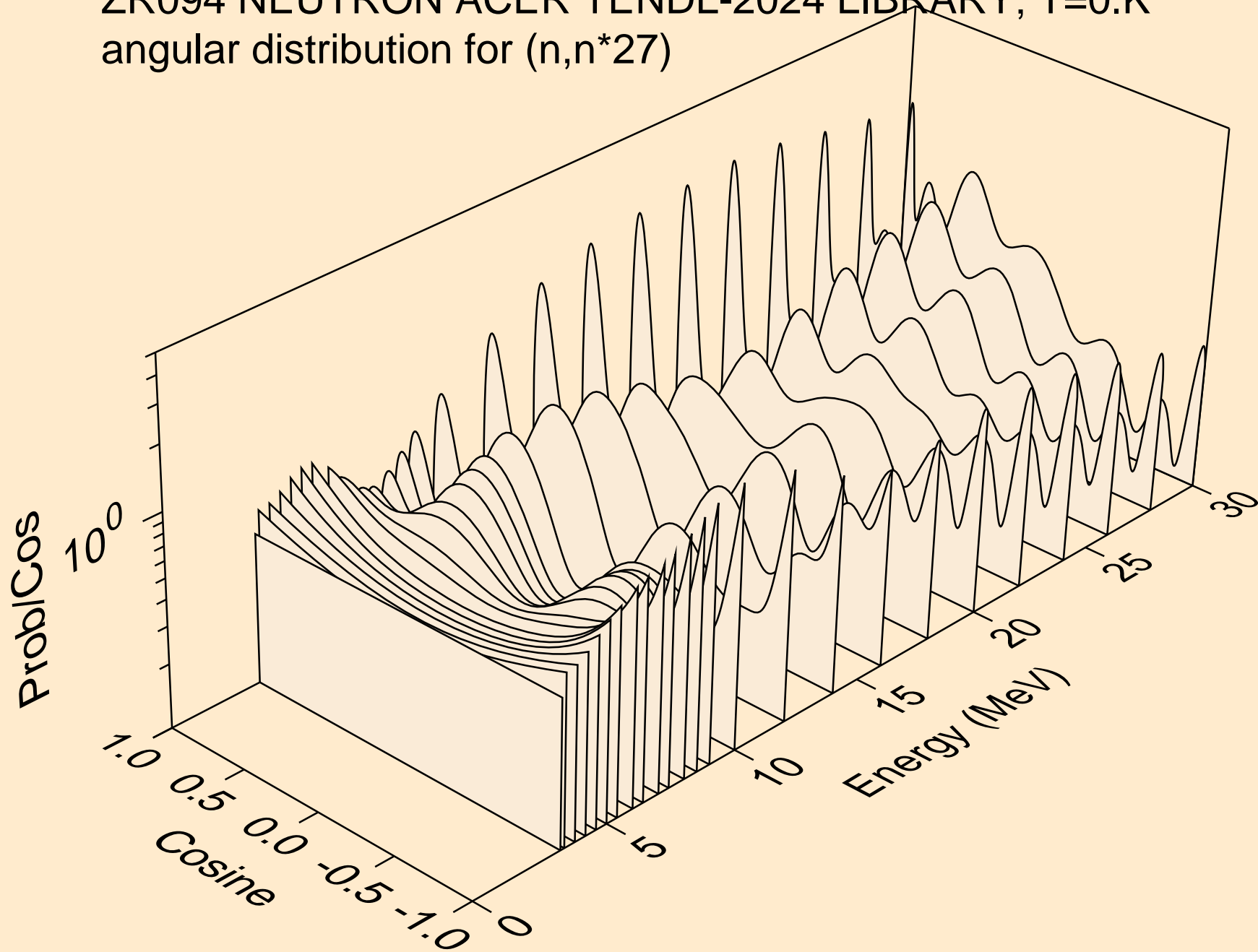
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*26)

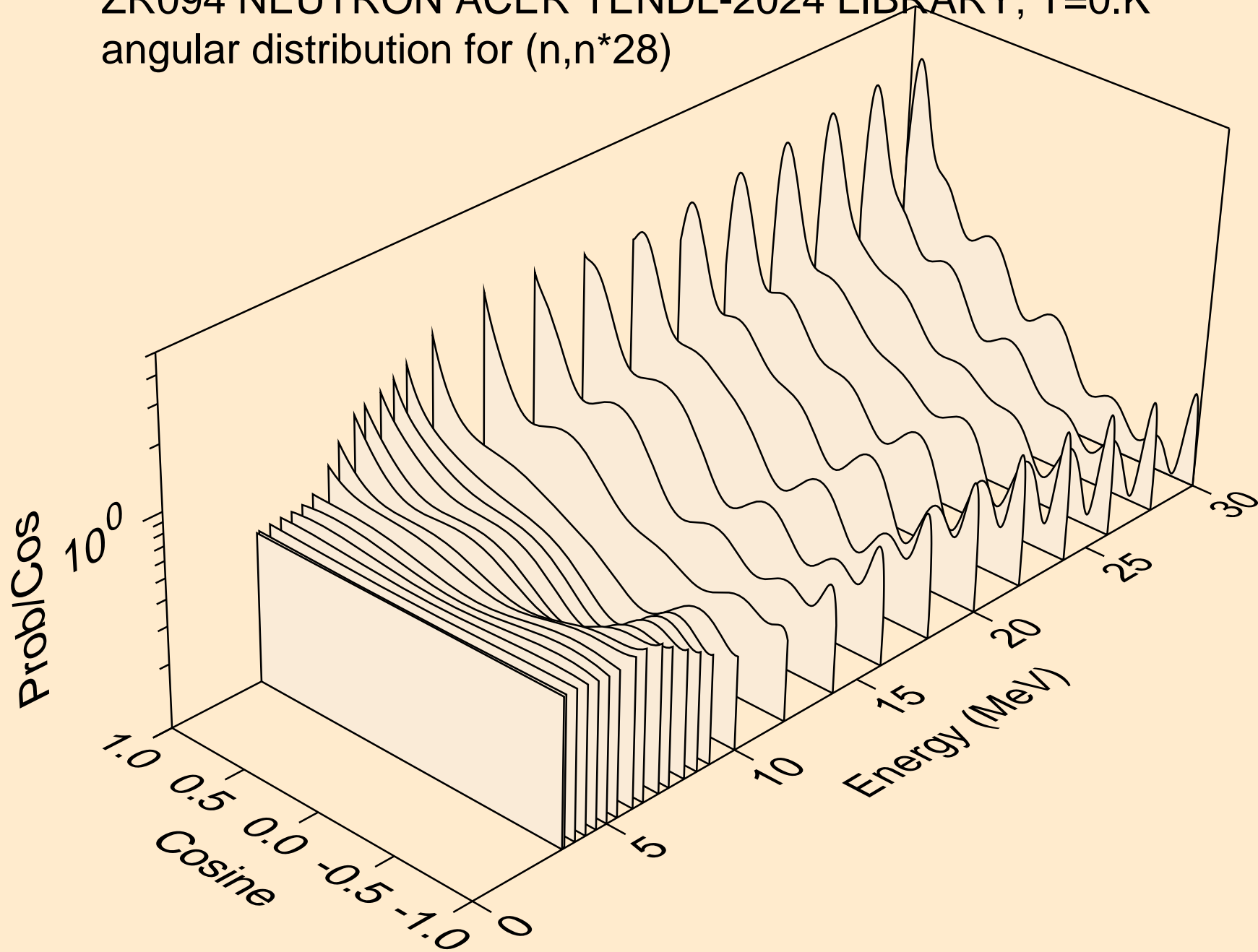


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angular distribution for (n,n\*27)

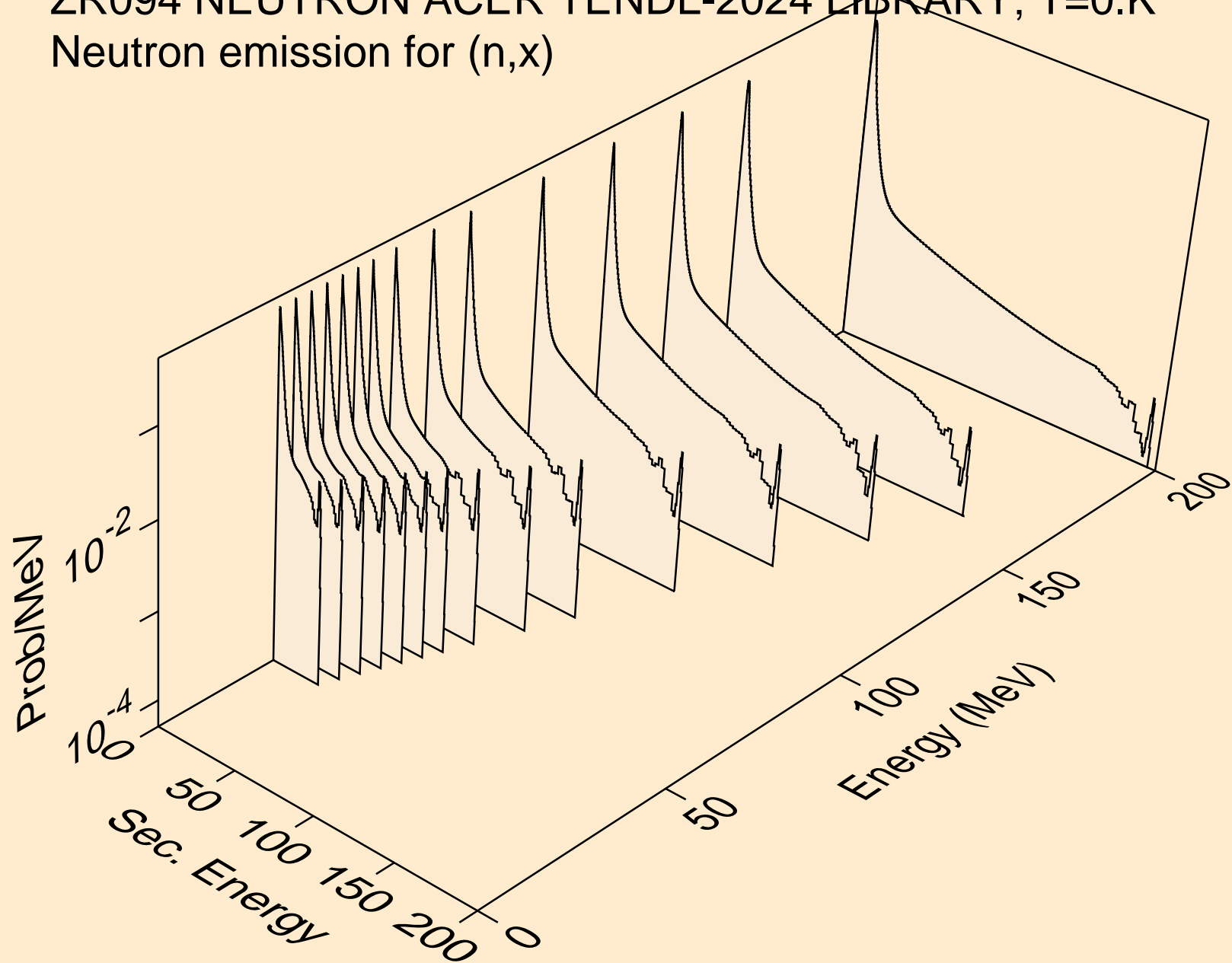




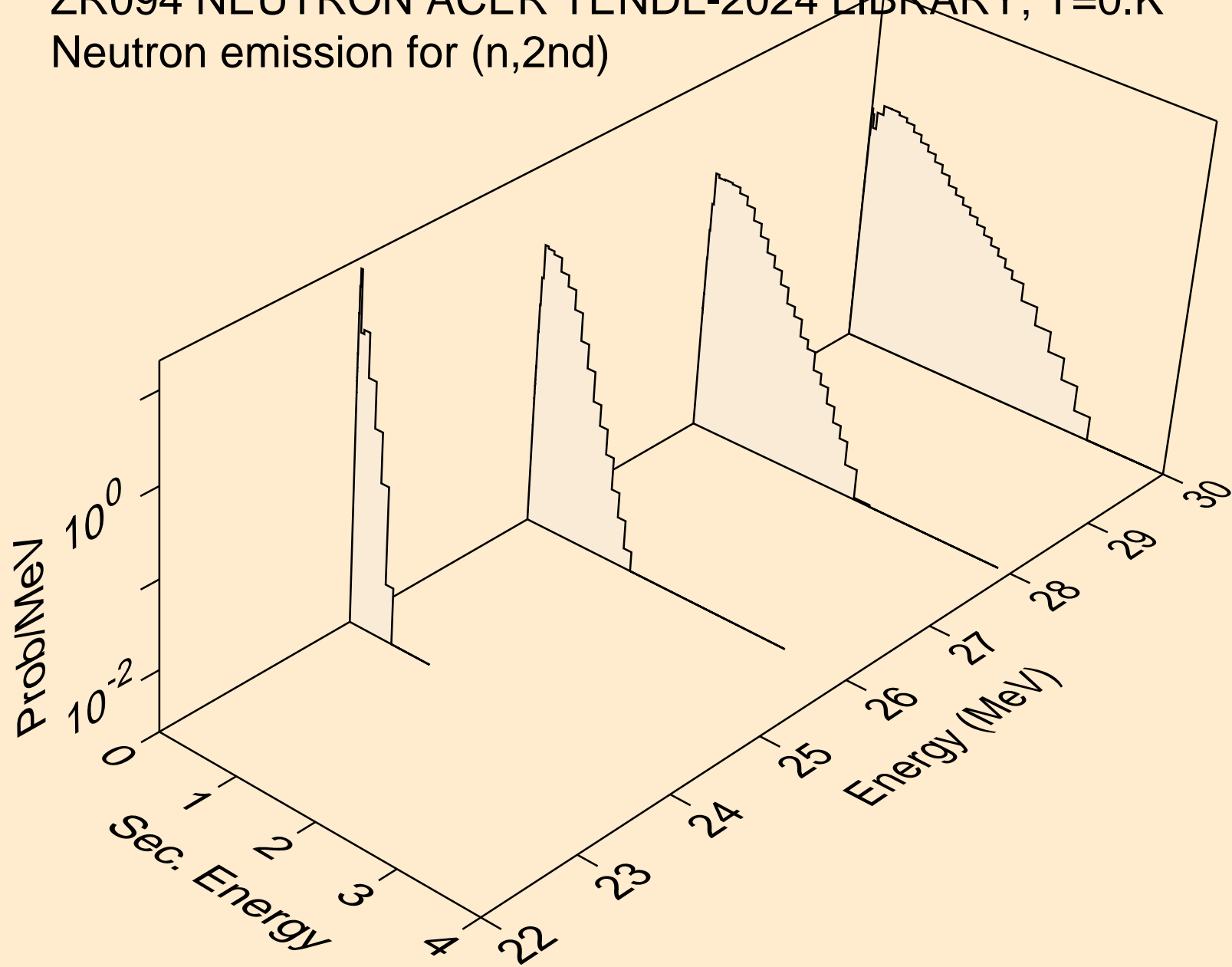
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angular distribution for (n,n\*28)



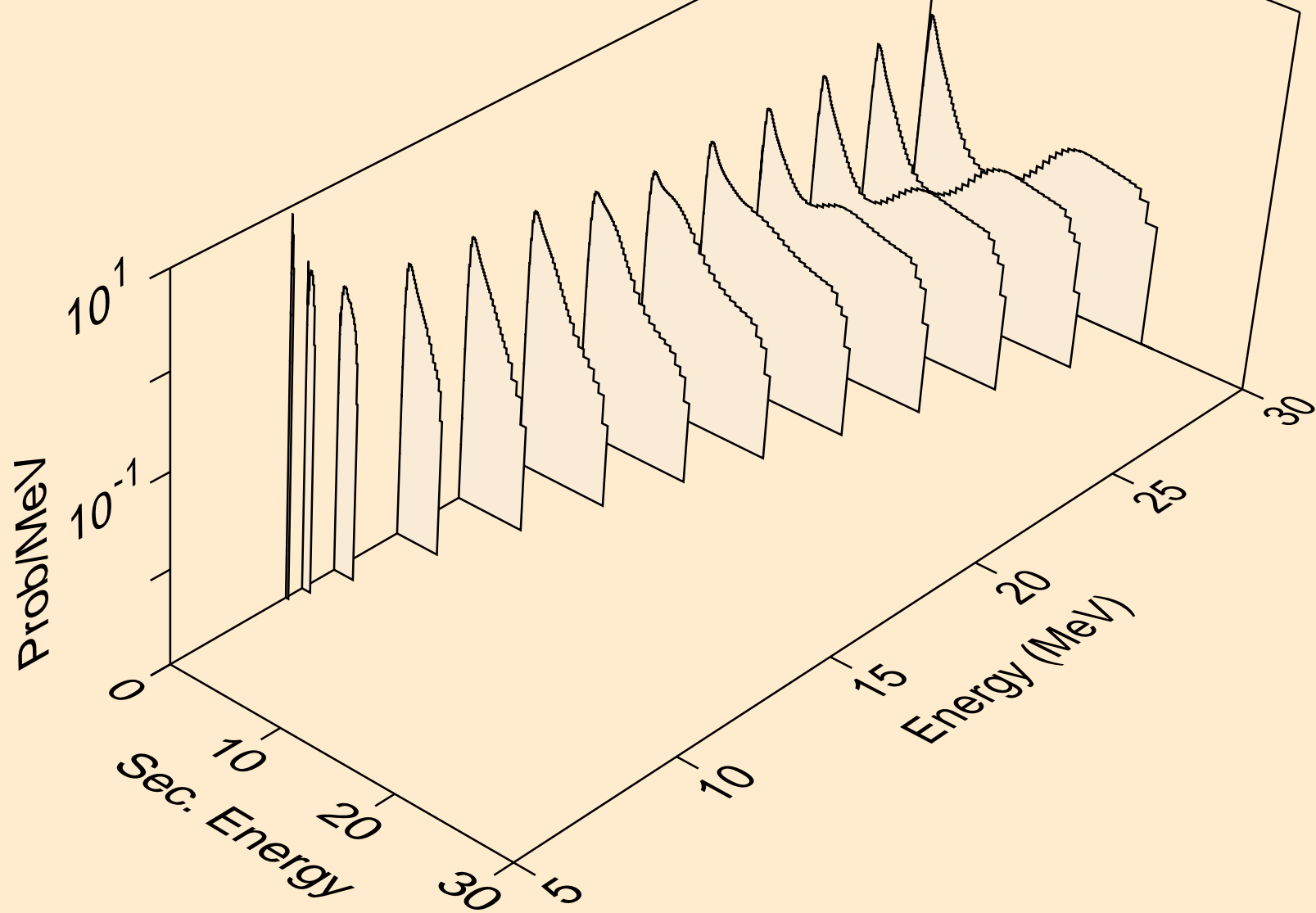
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,x)



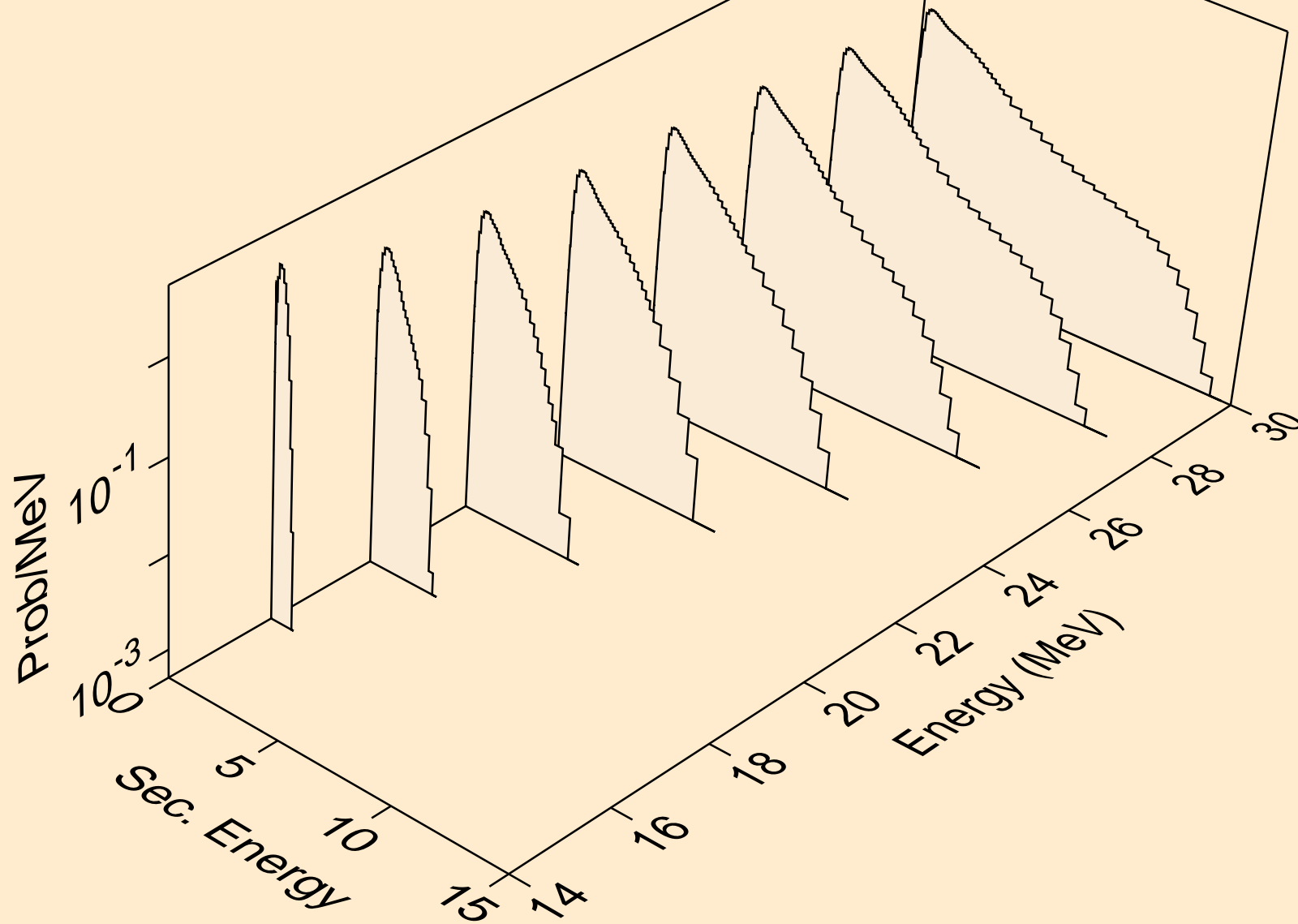
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



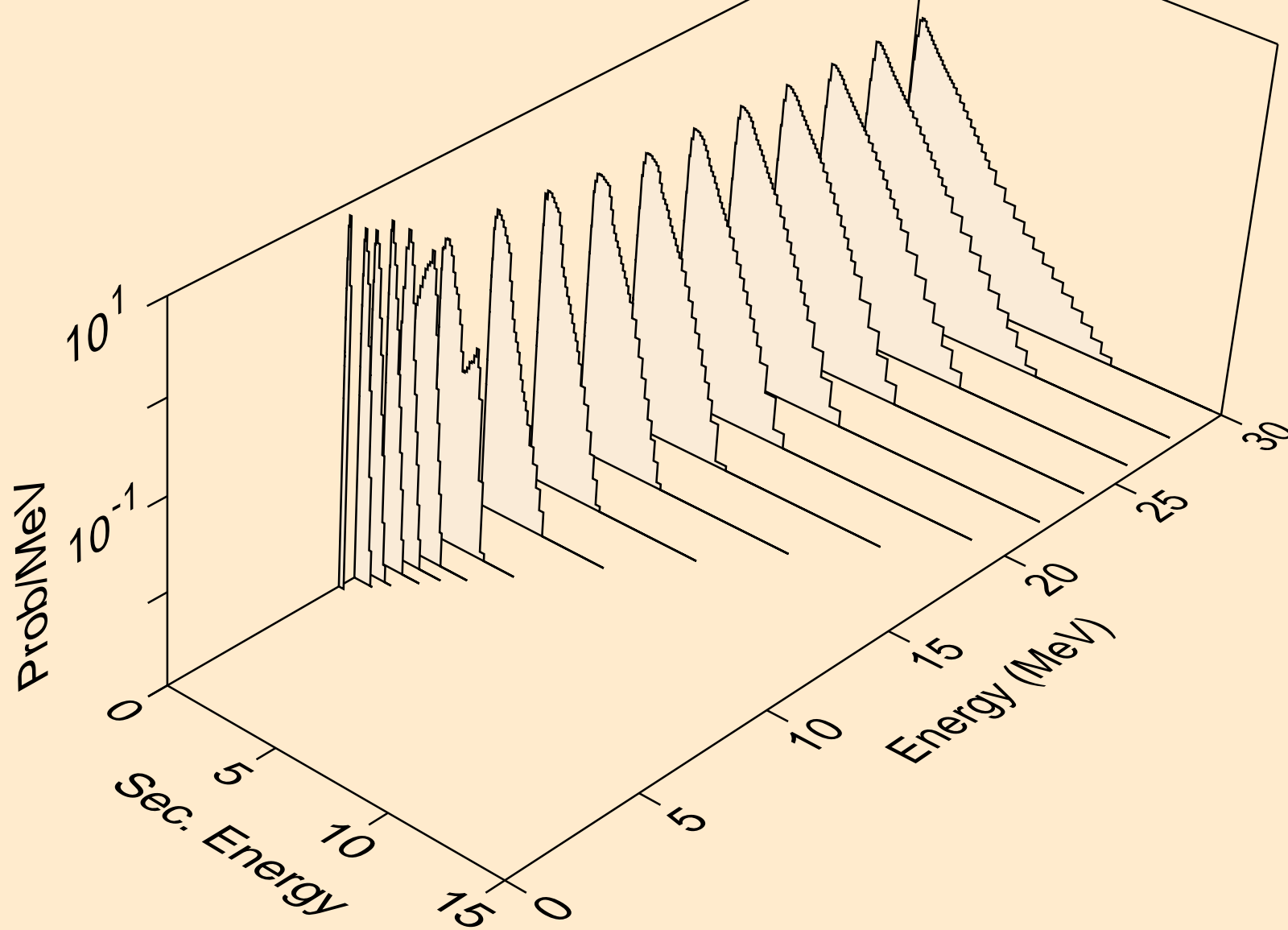
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)



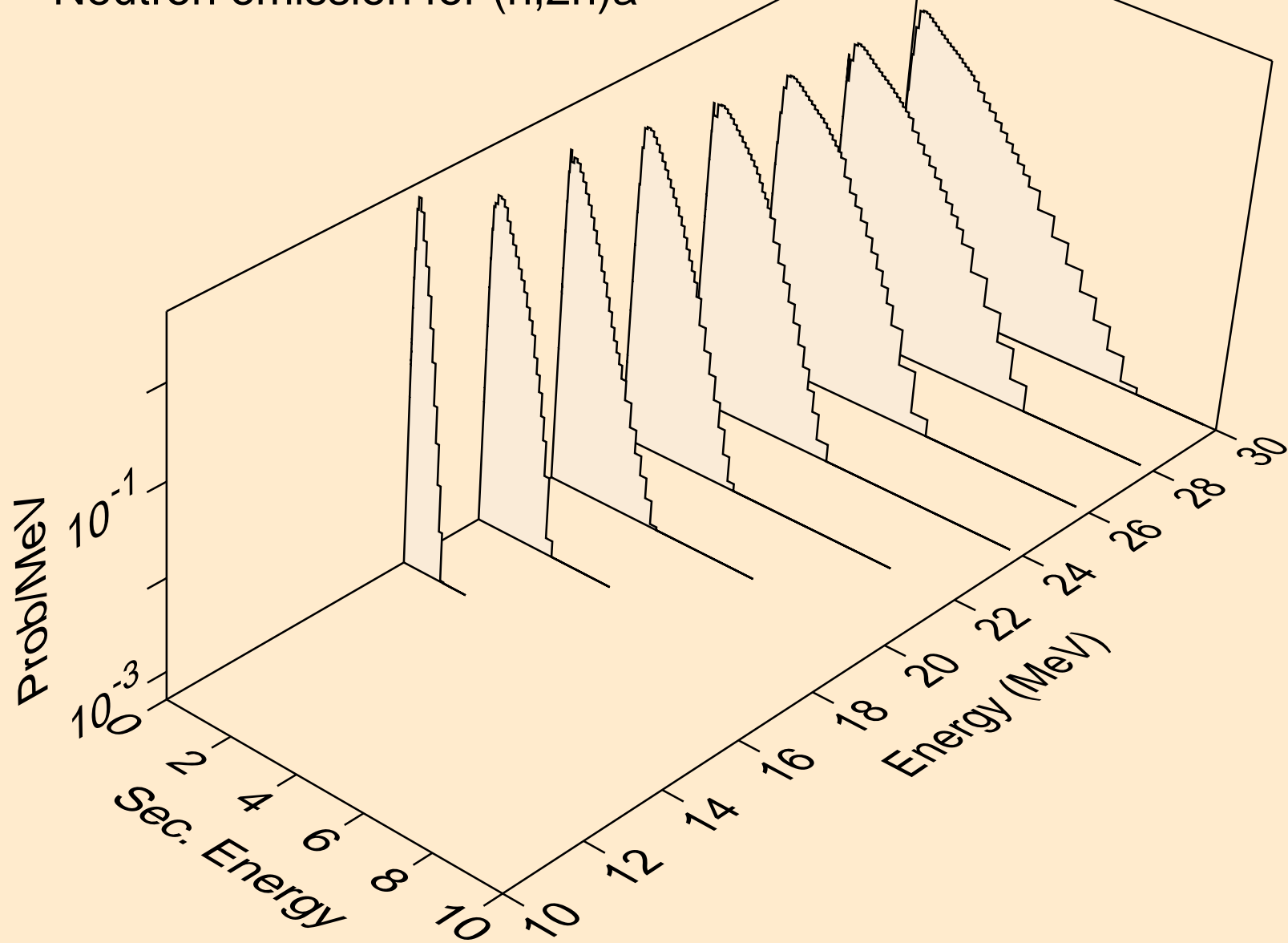
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



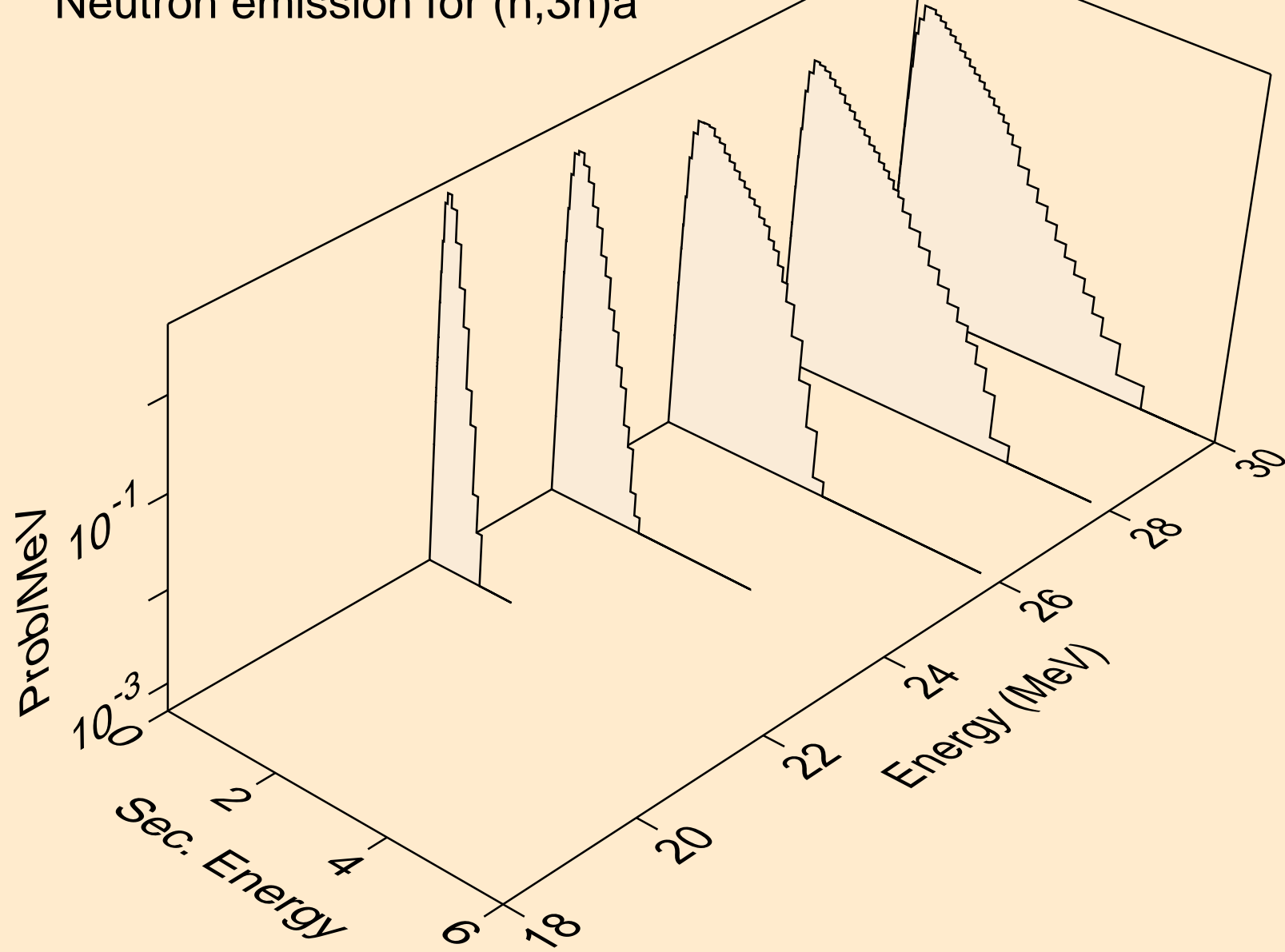
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

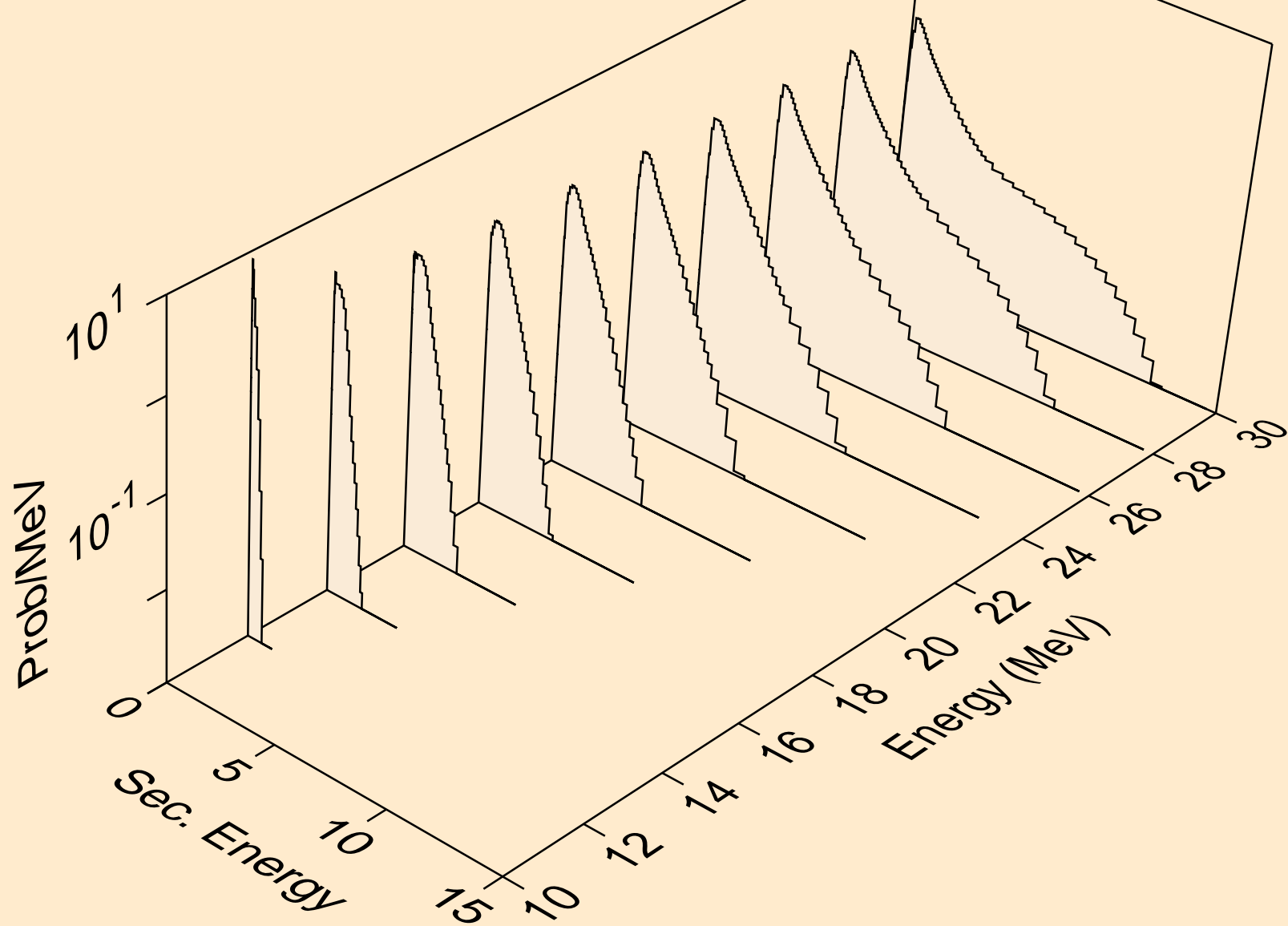


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

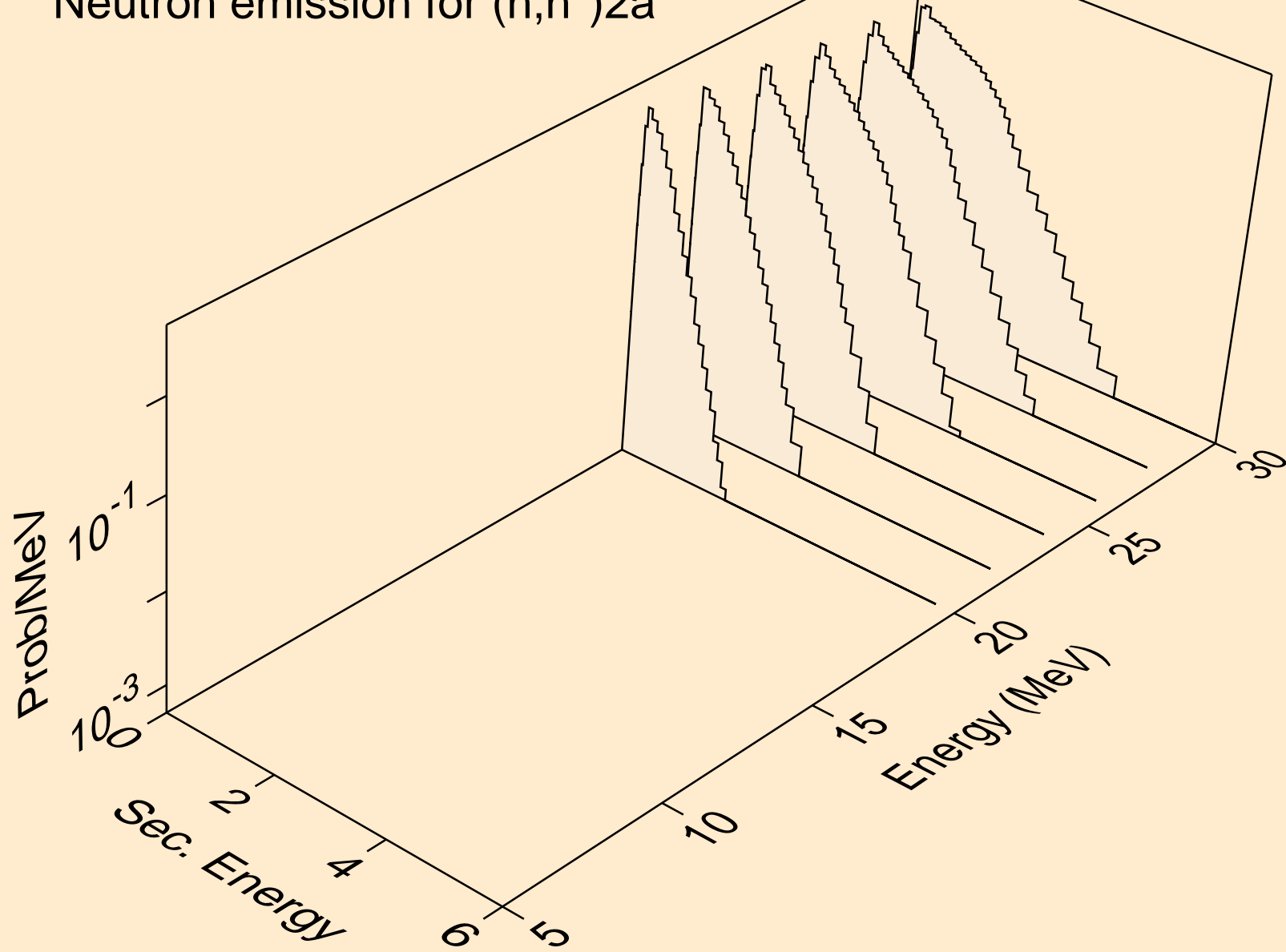




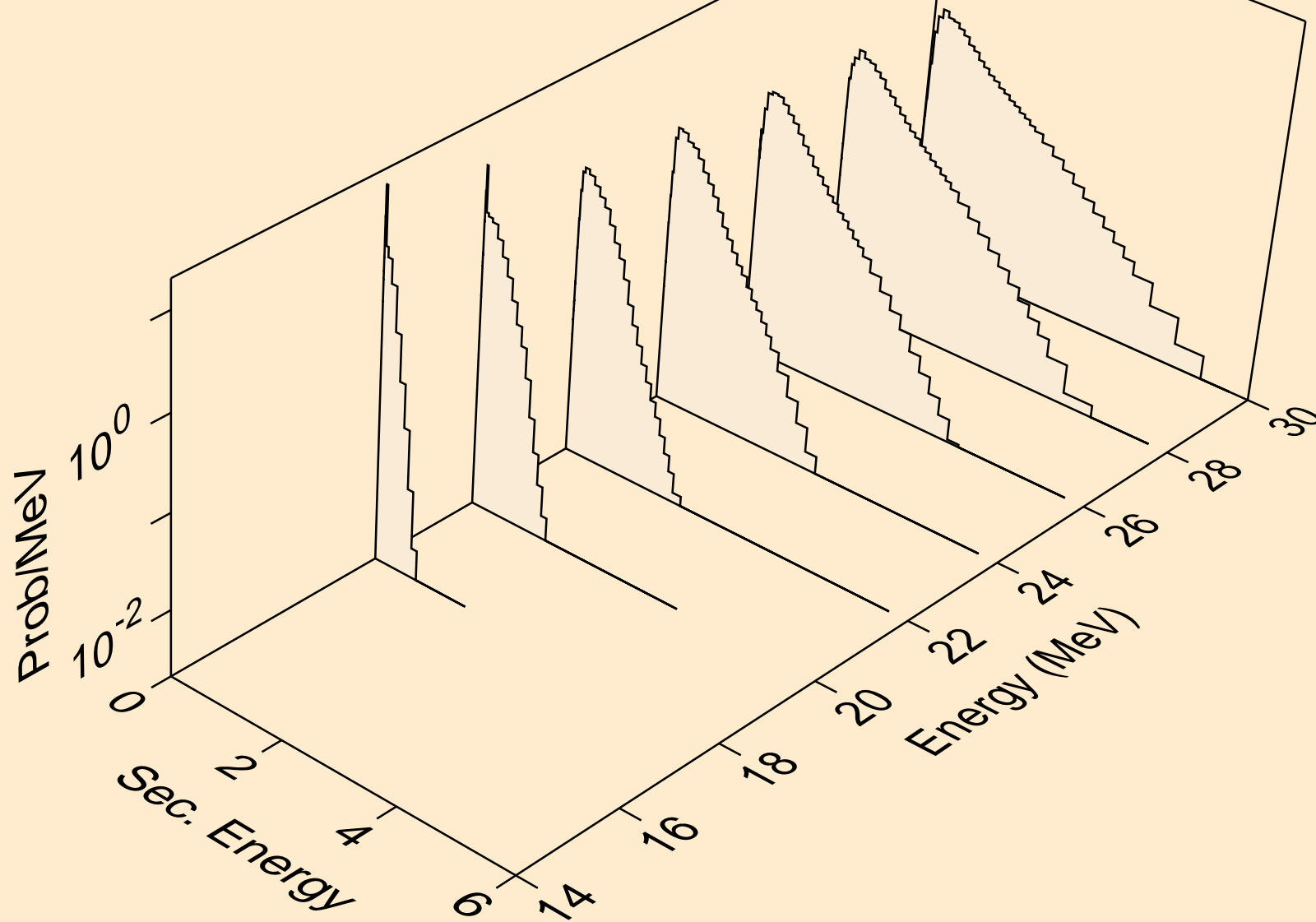
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



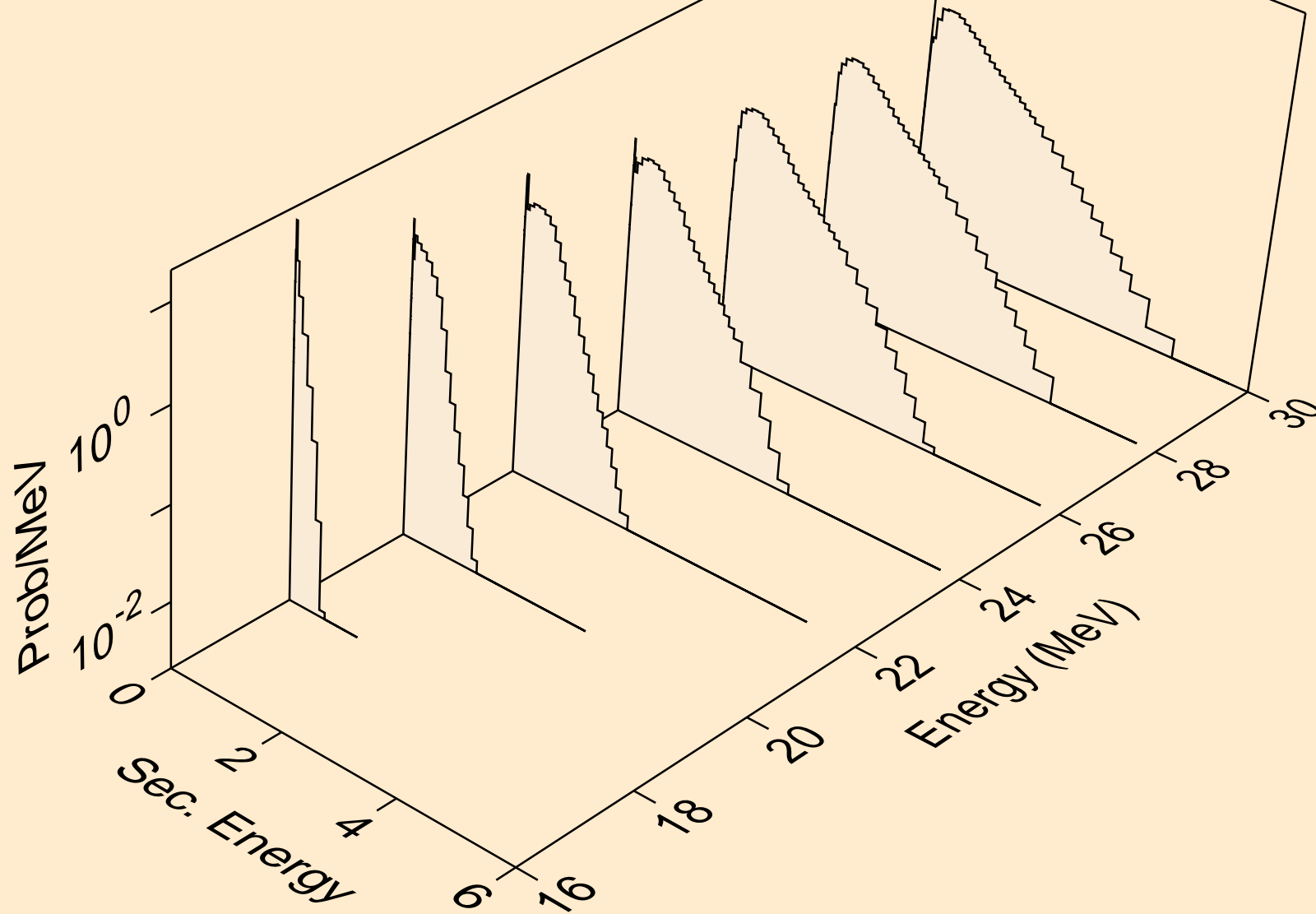
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



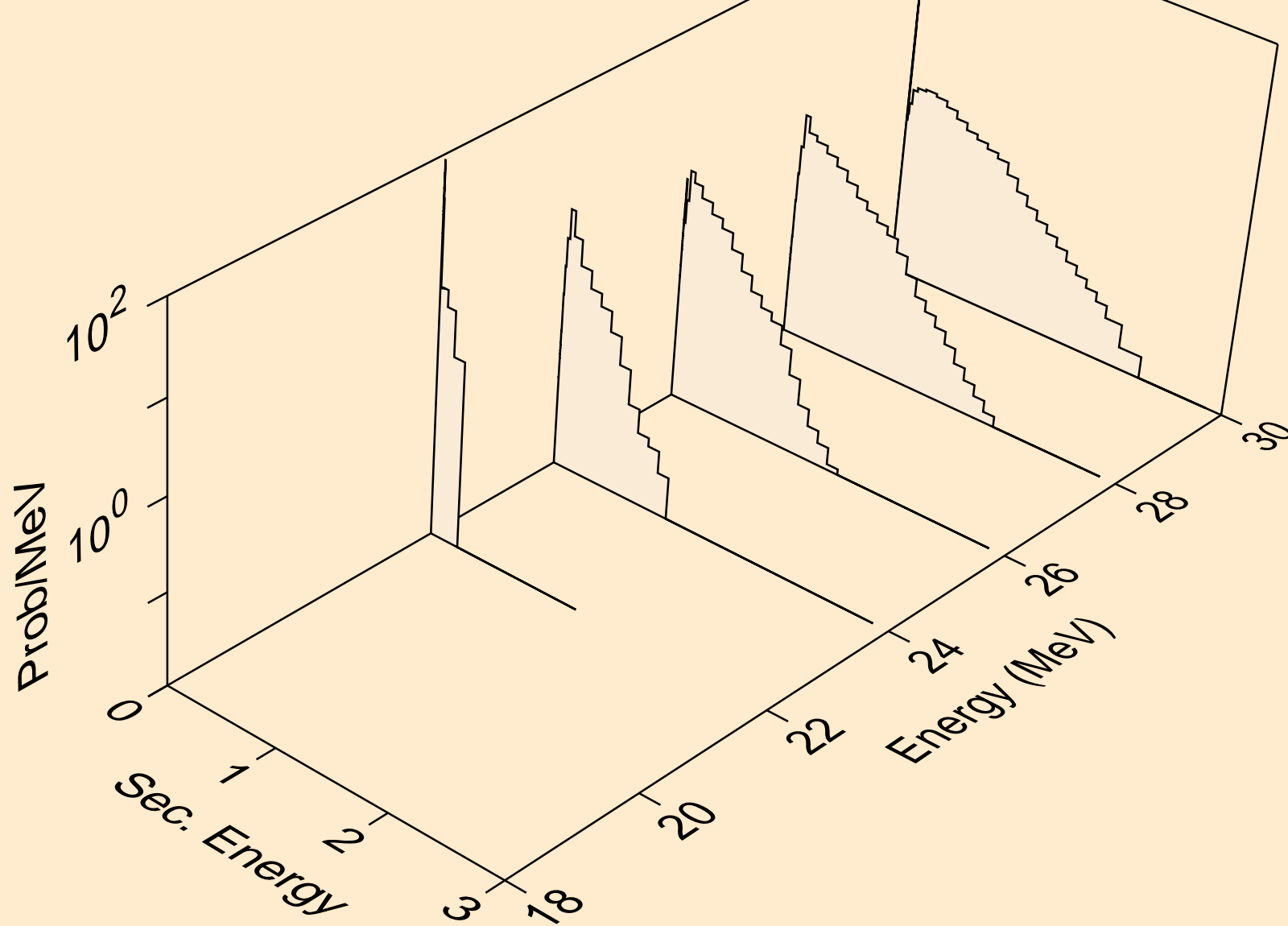
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



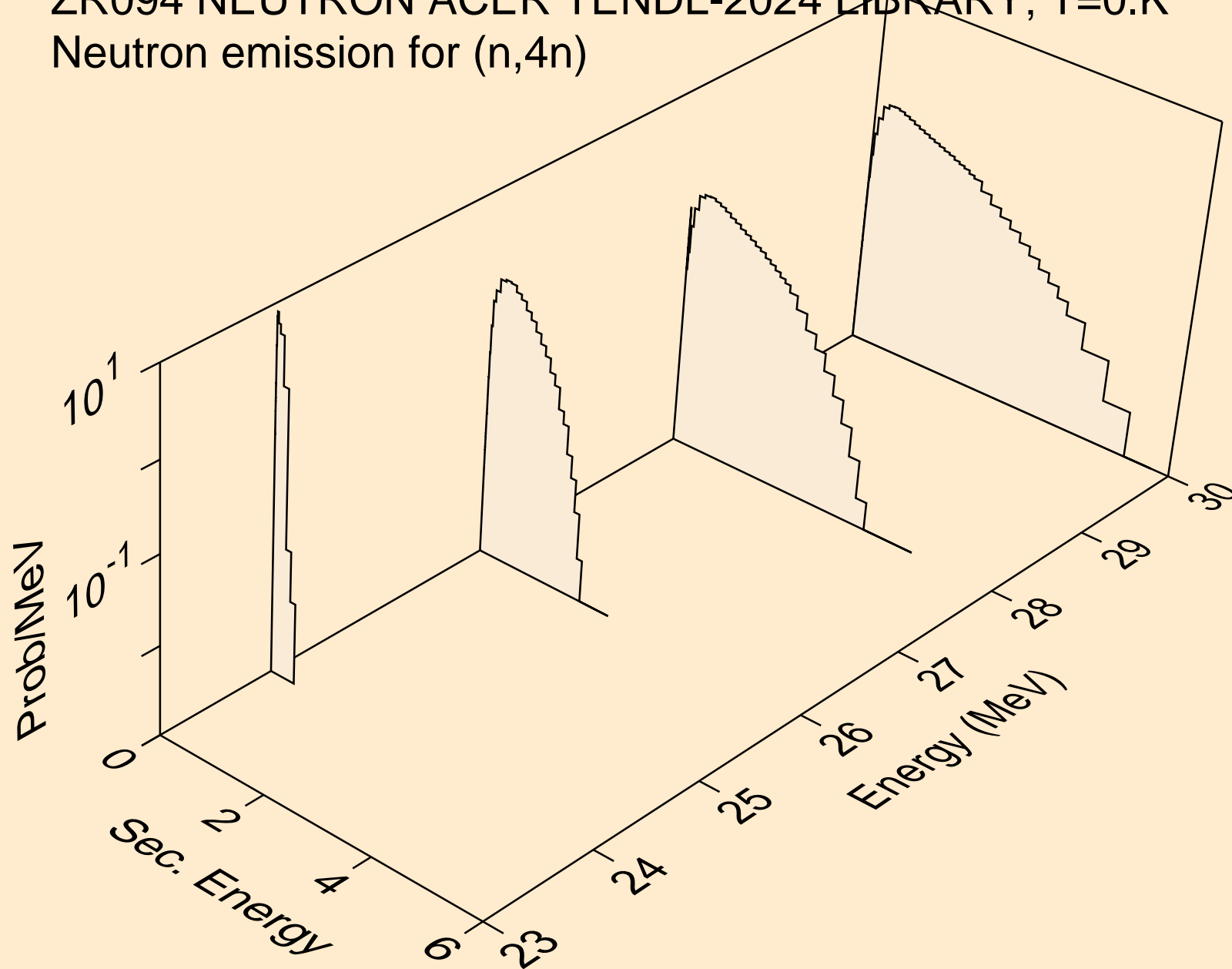
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



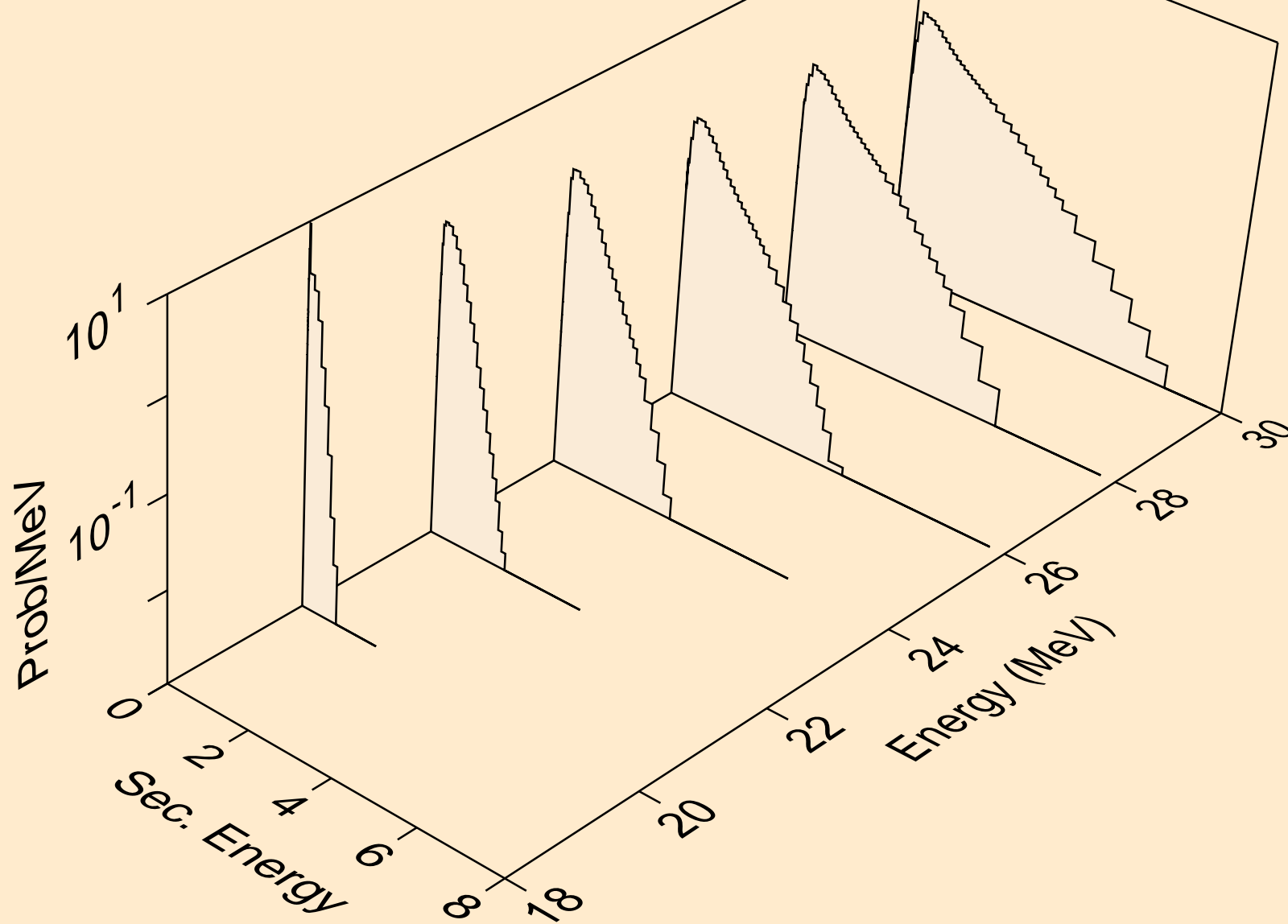
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



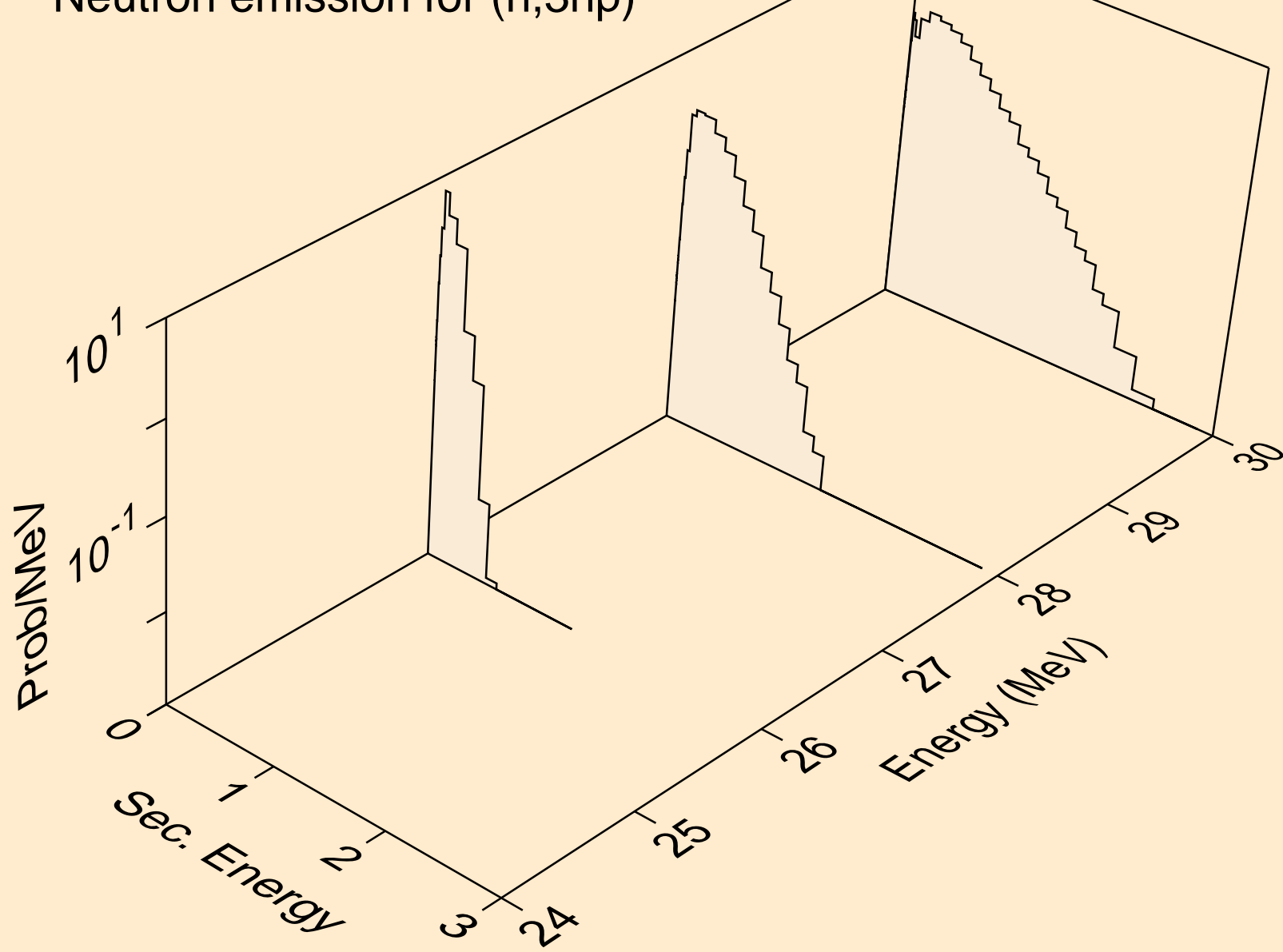
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,4n)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)

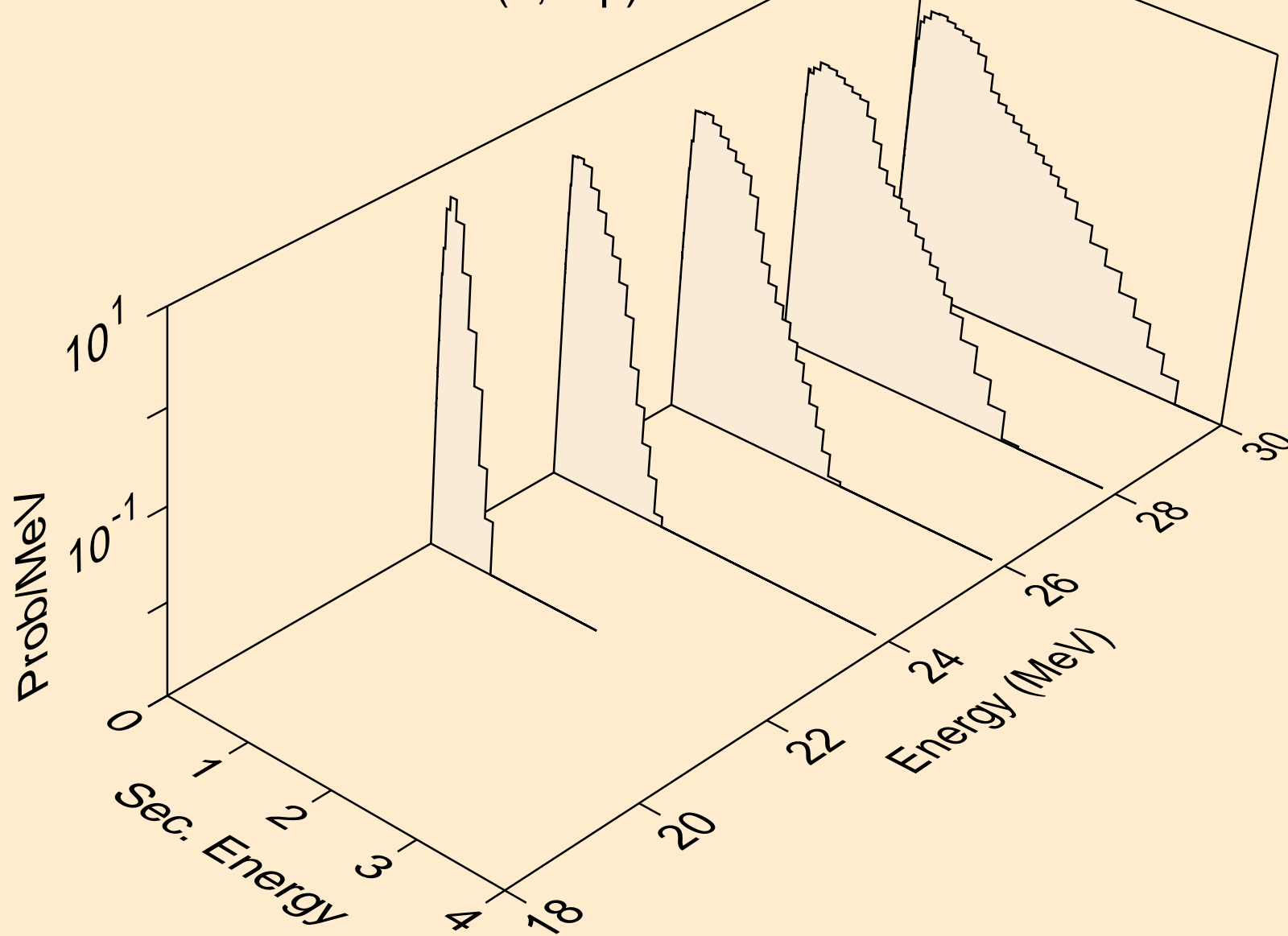


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3np)

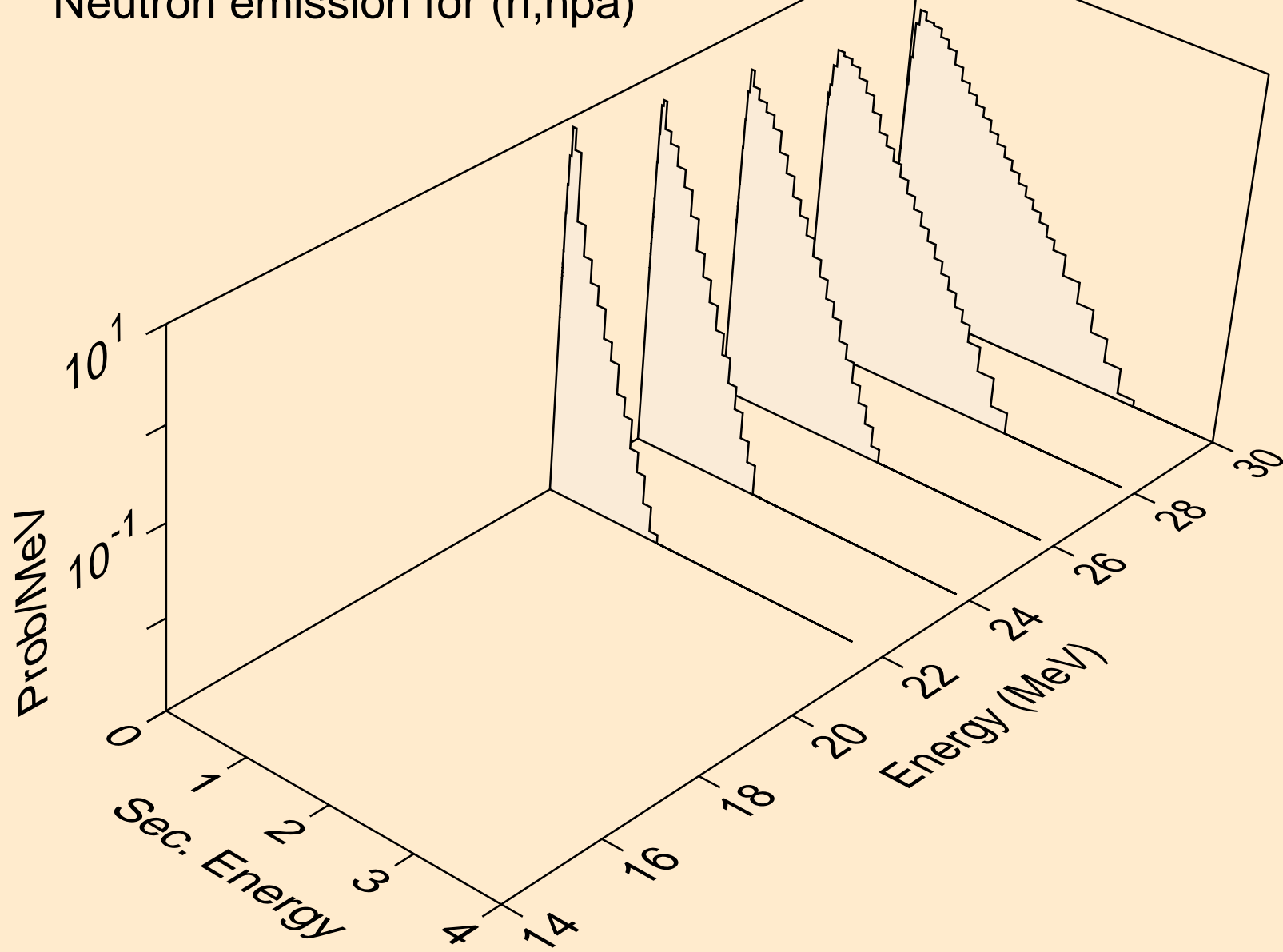




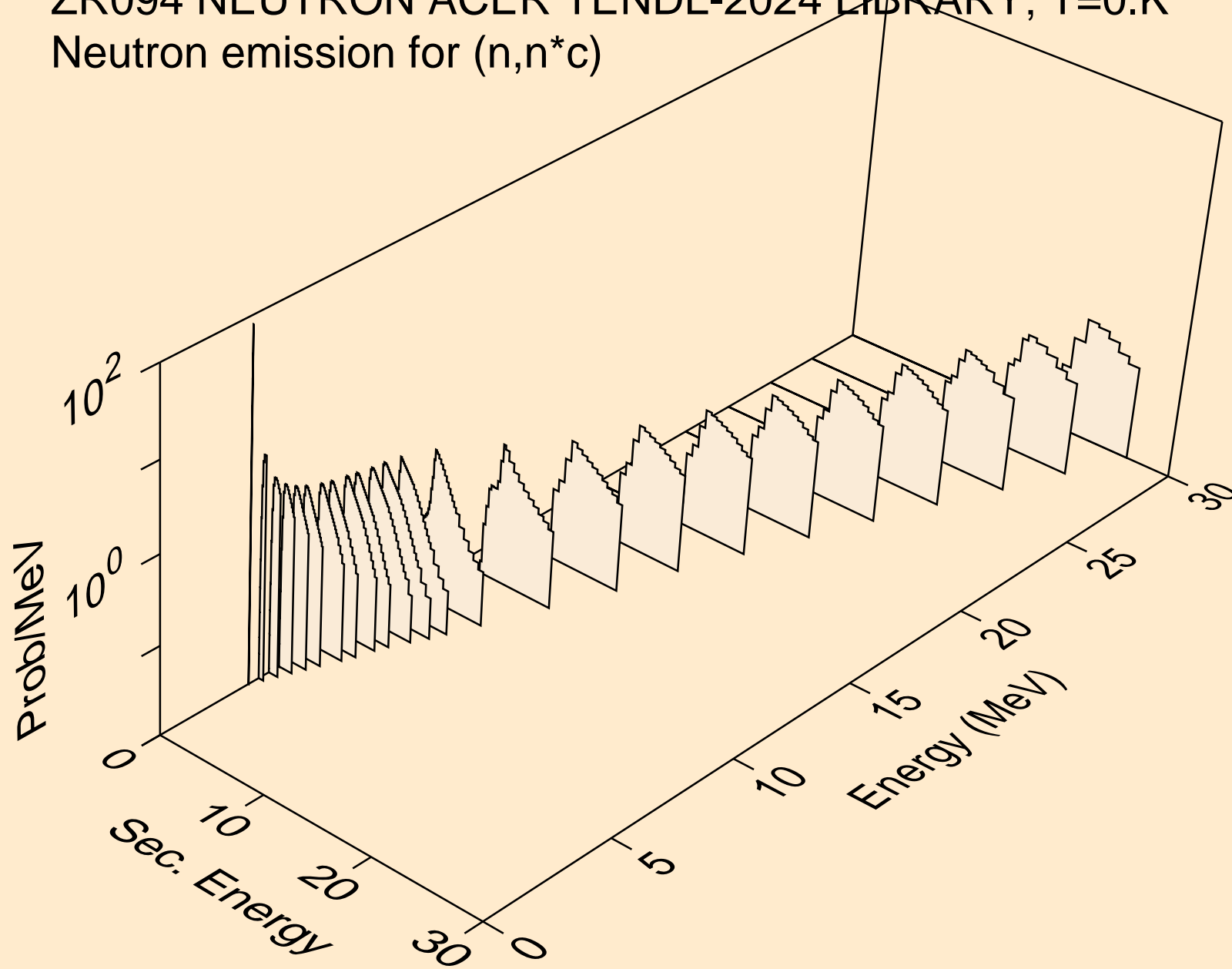
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



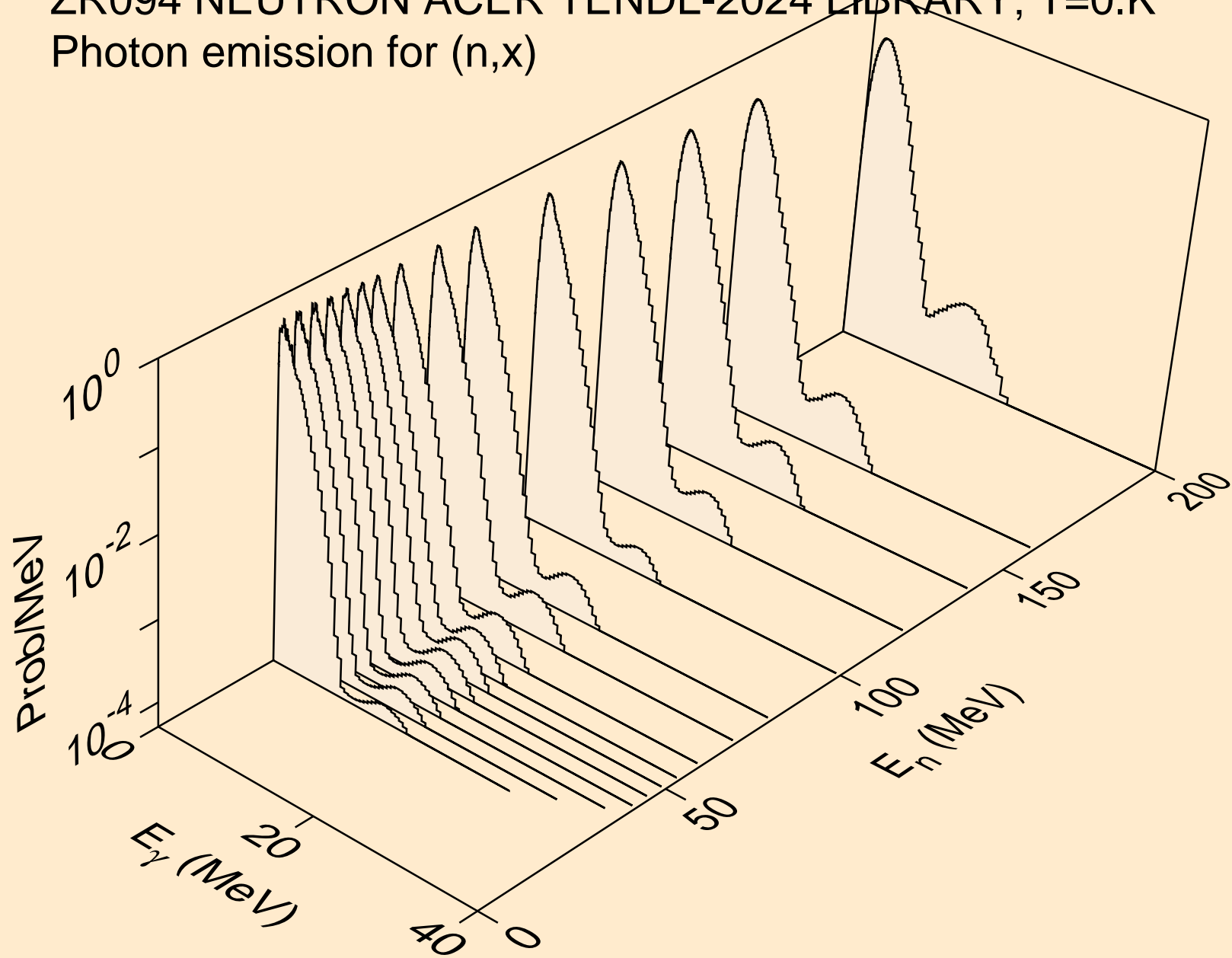
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,npa)



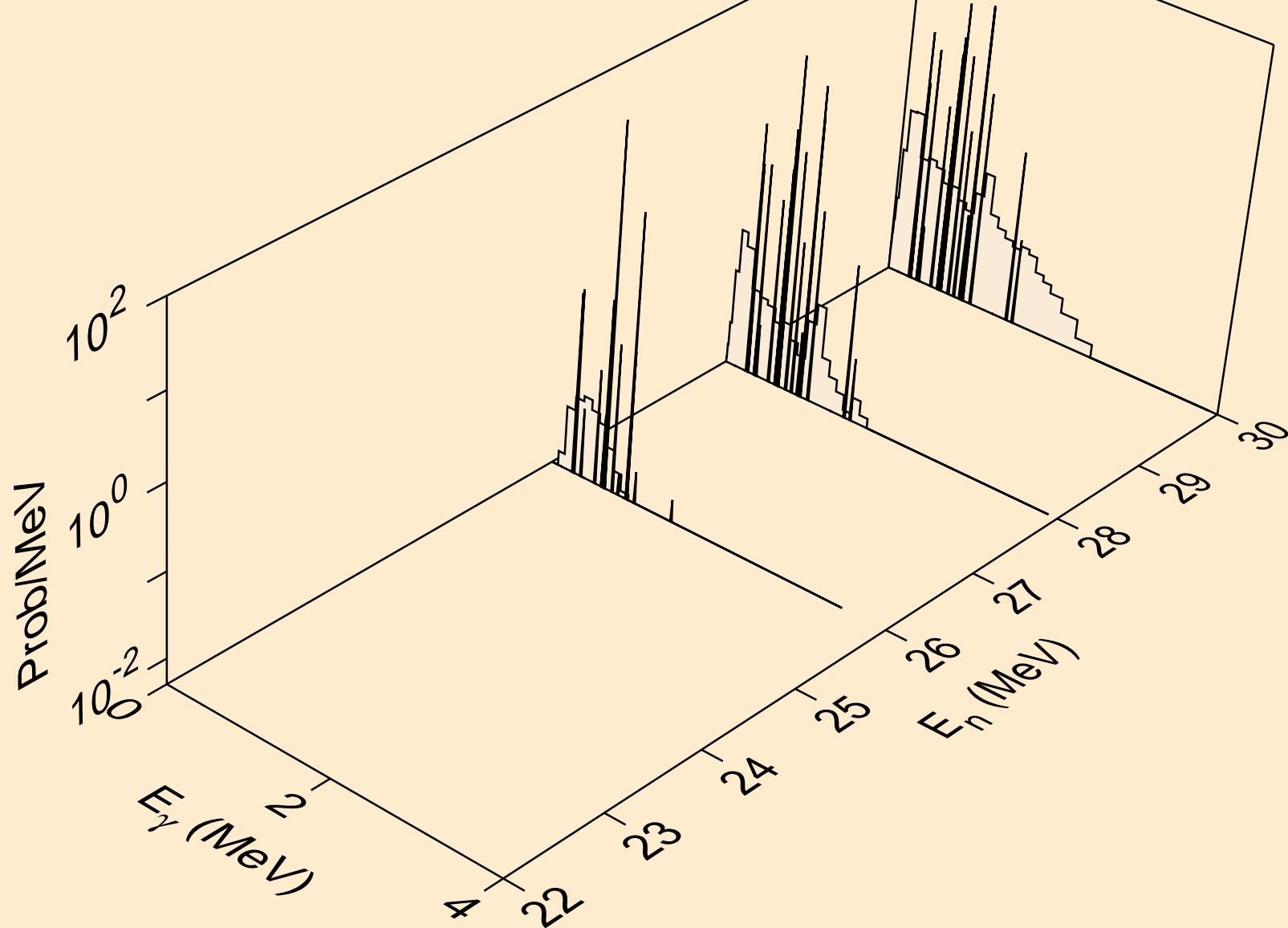
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



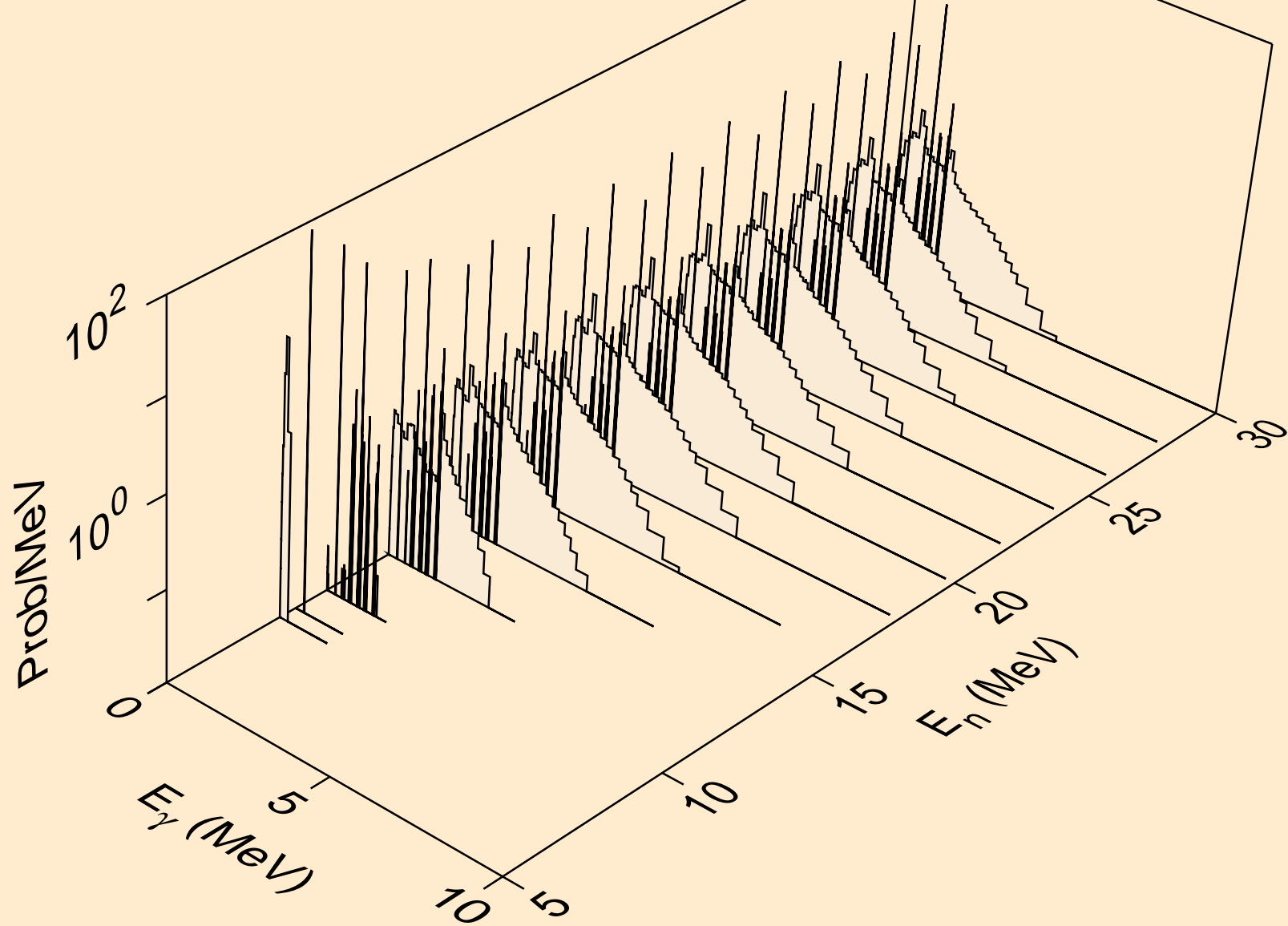
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,x)



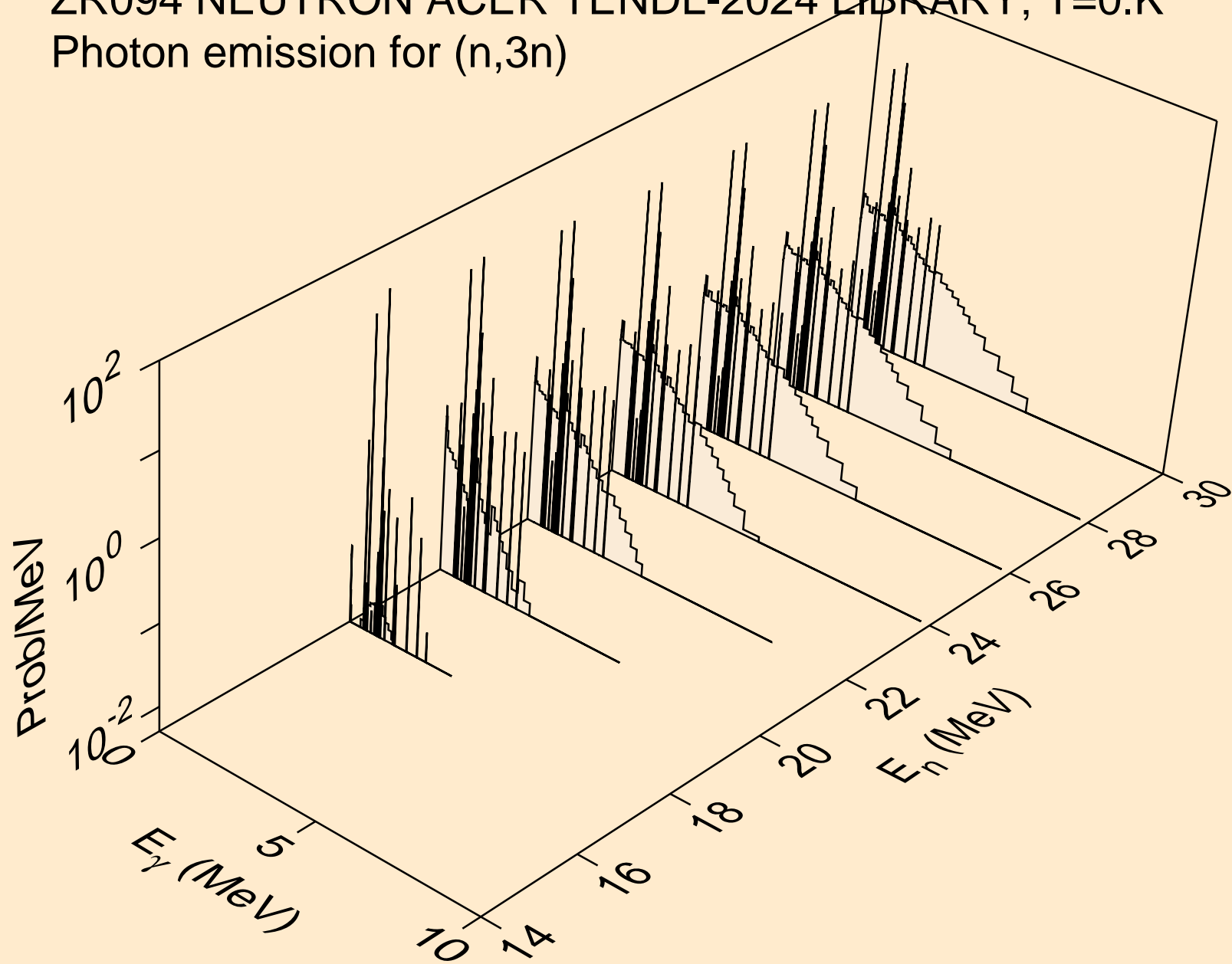
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)



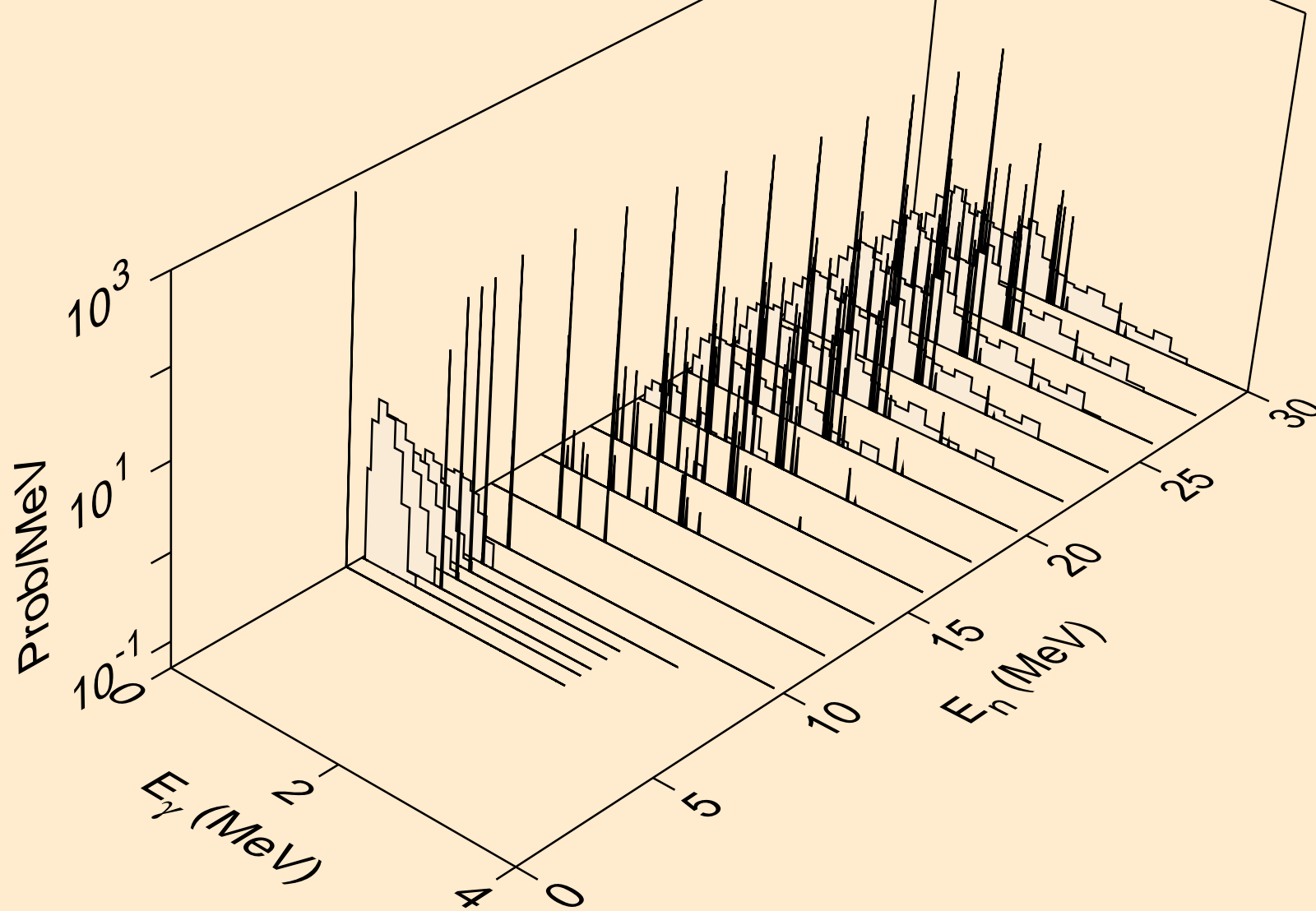
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)

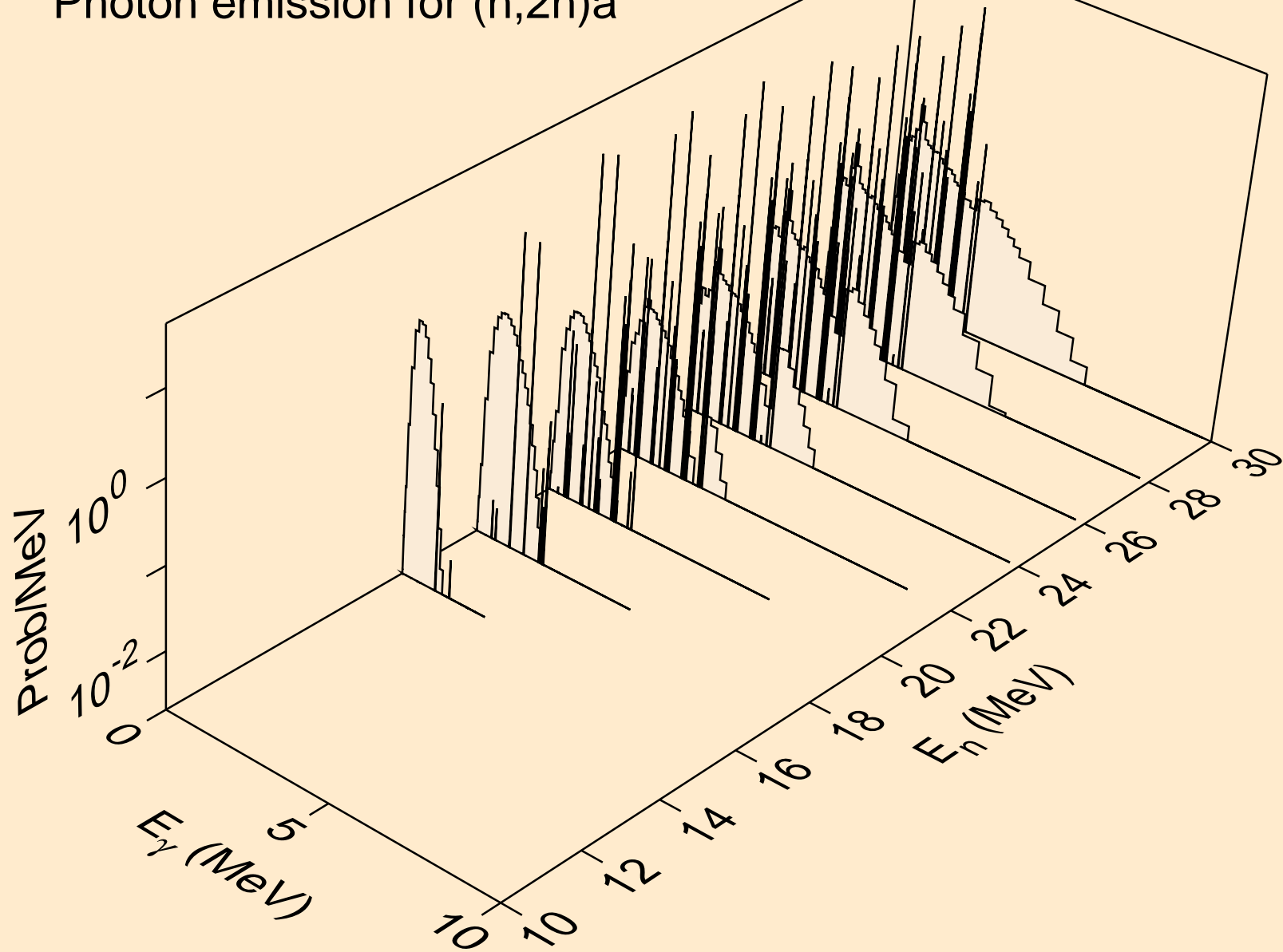


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

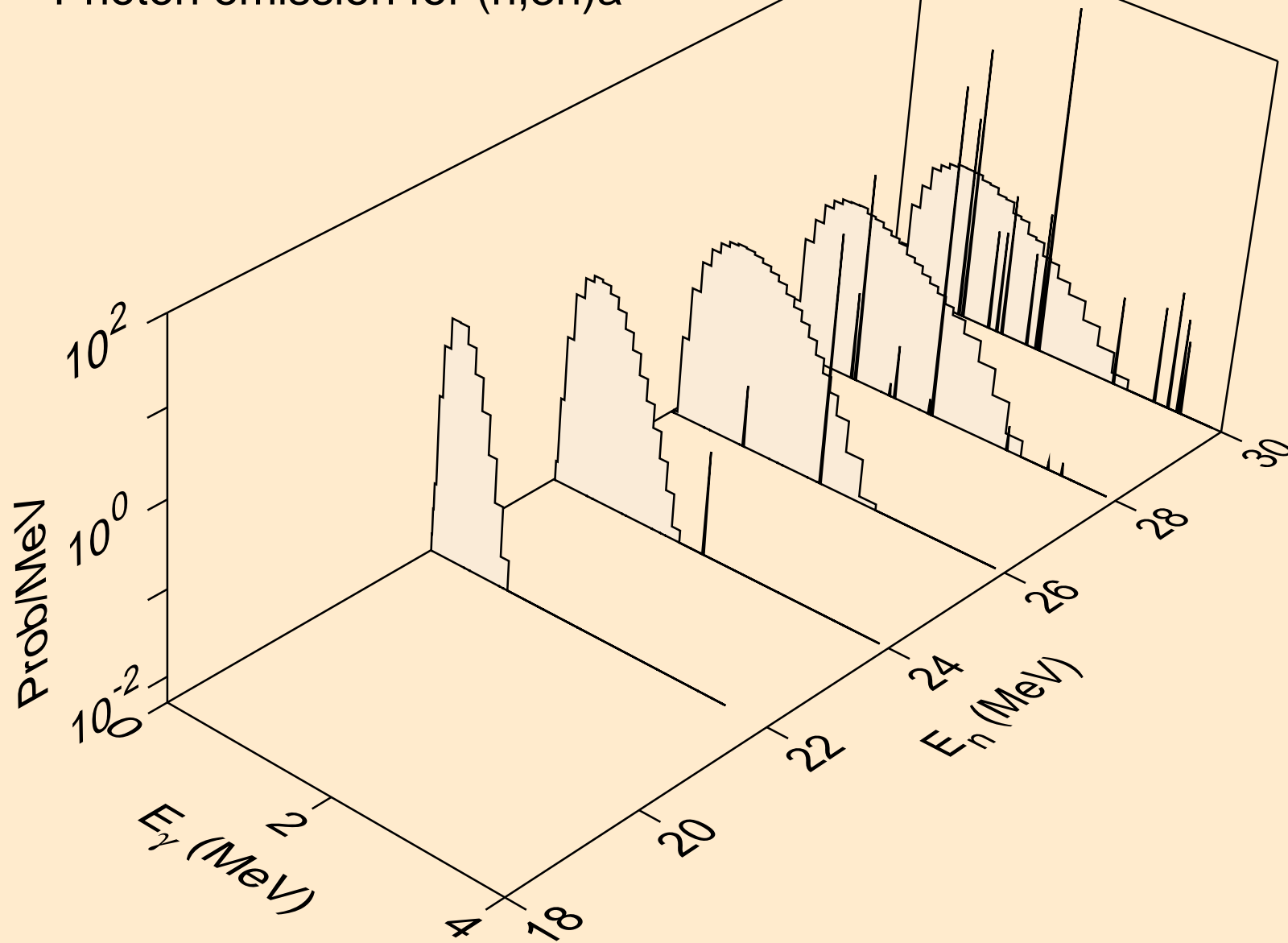




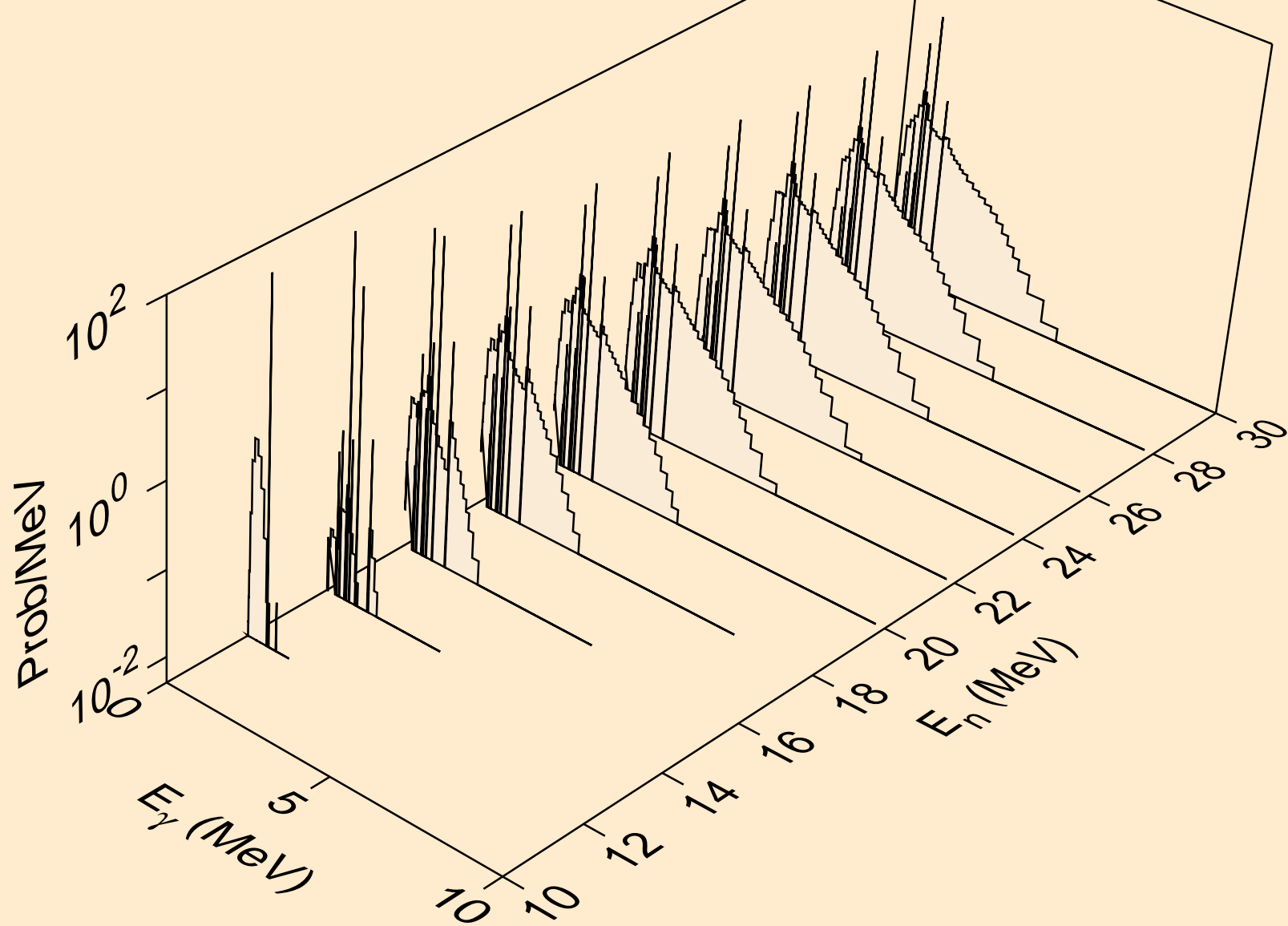
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



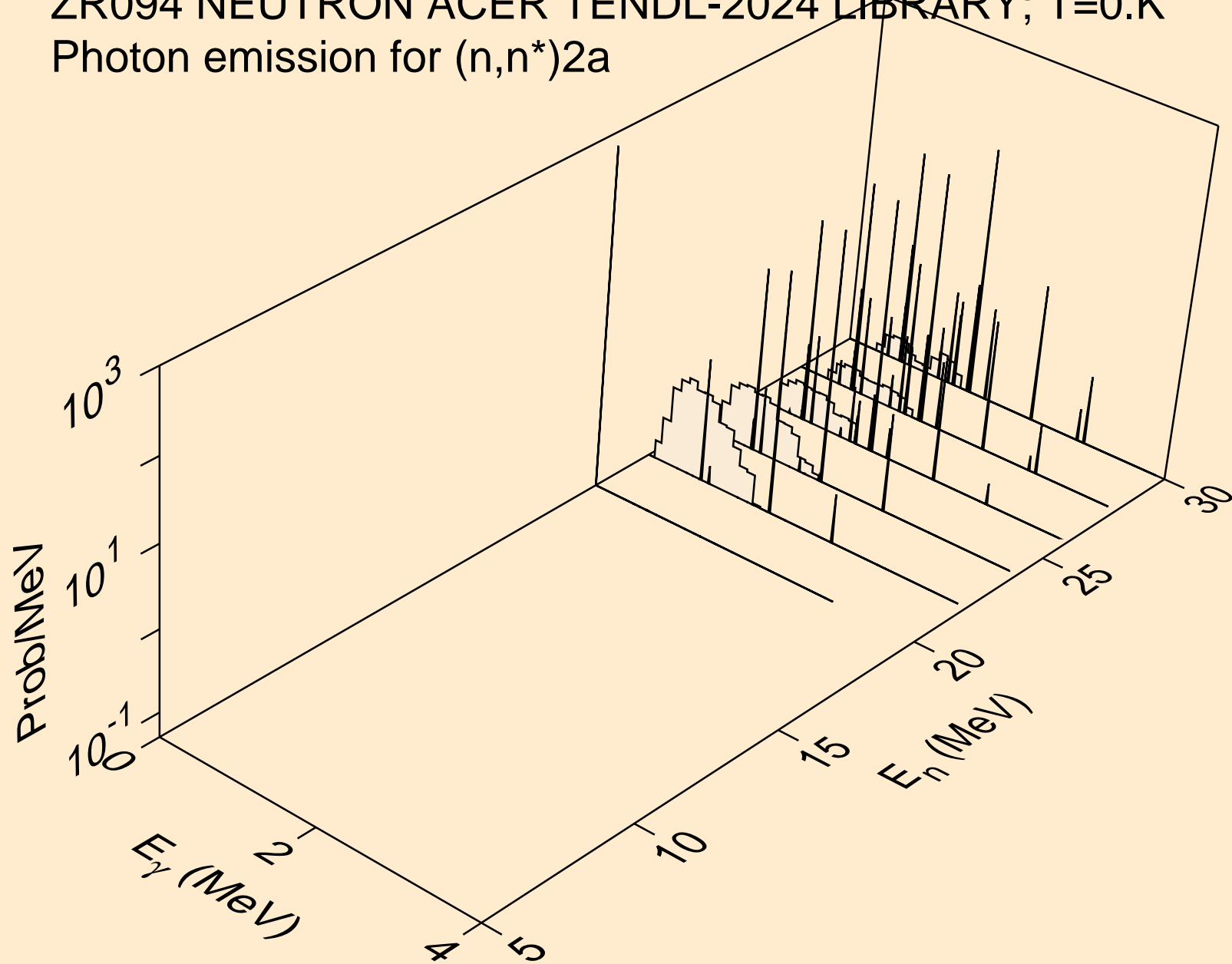
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Photon emission for (n,3n)a



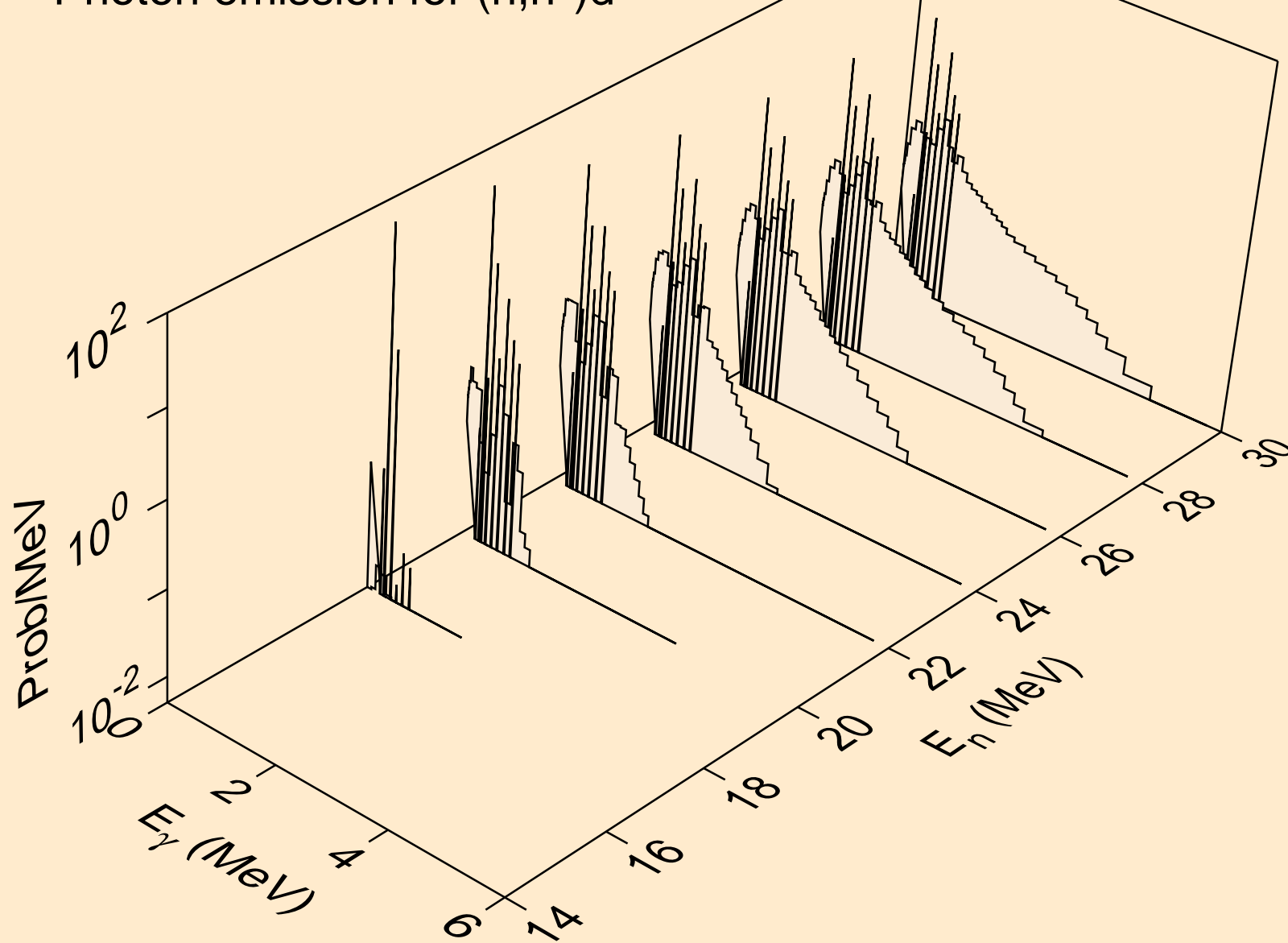
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



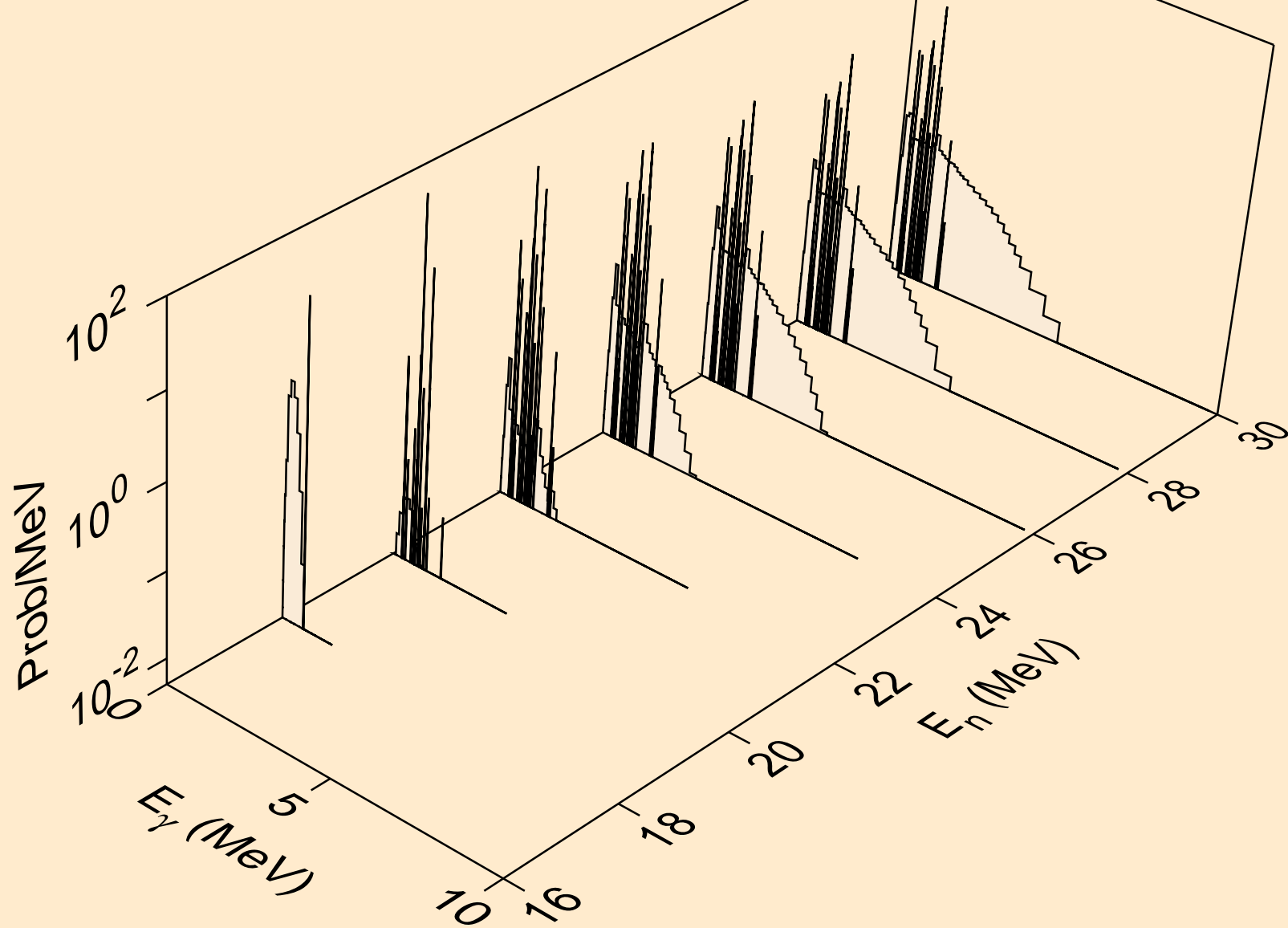
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Photon emission for (n,n\*)2a



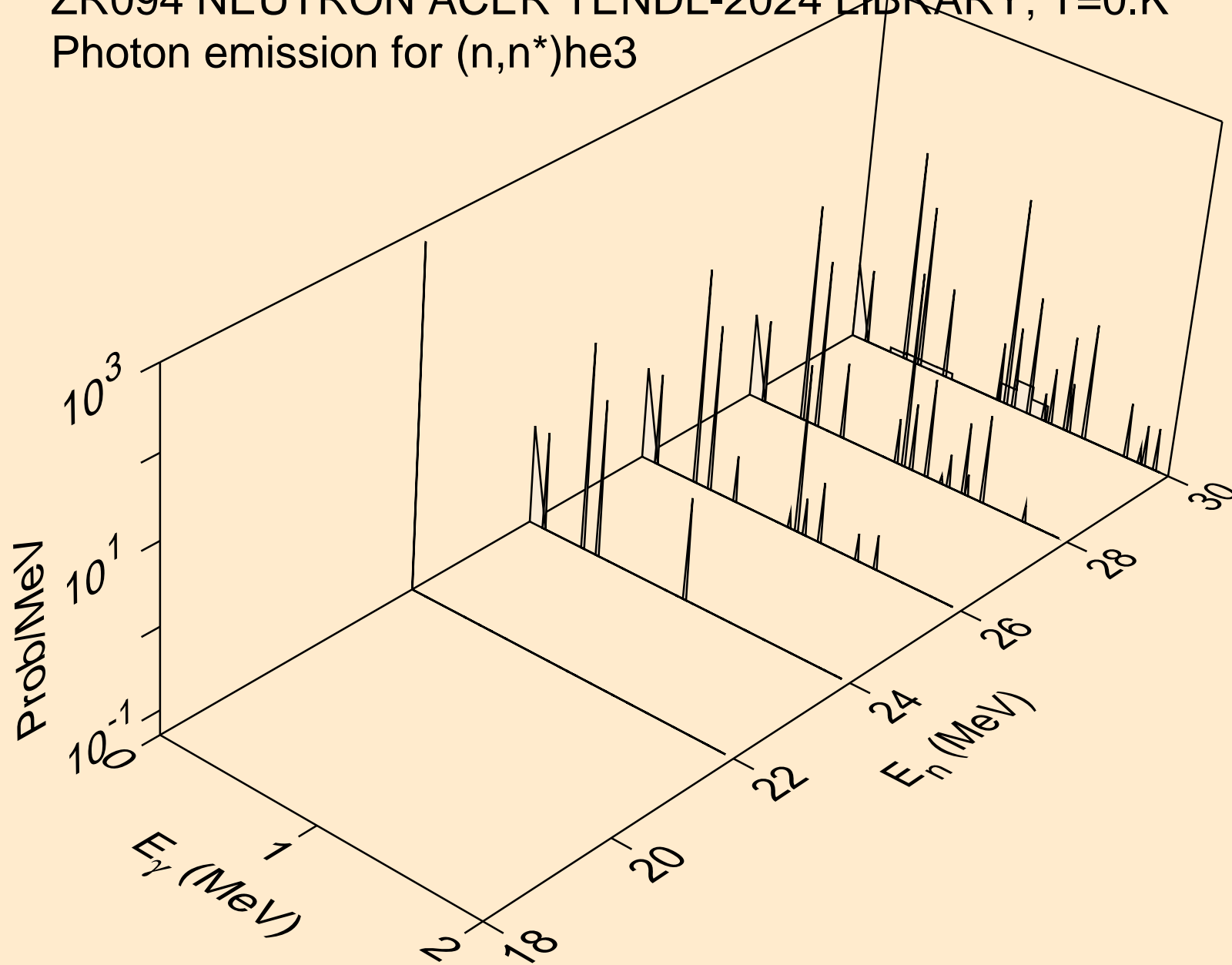
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



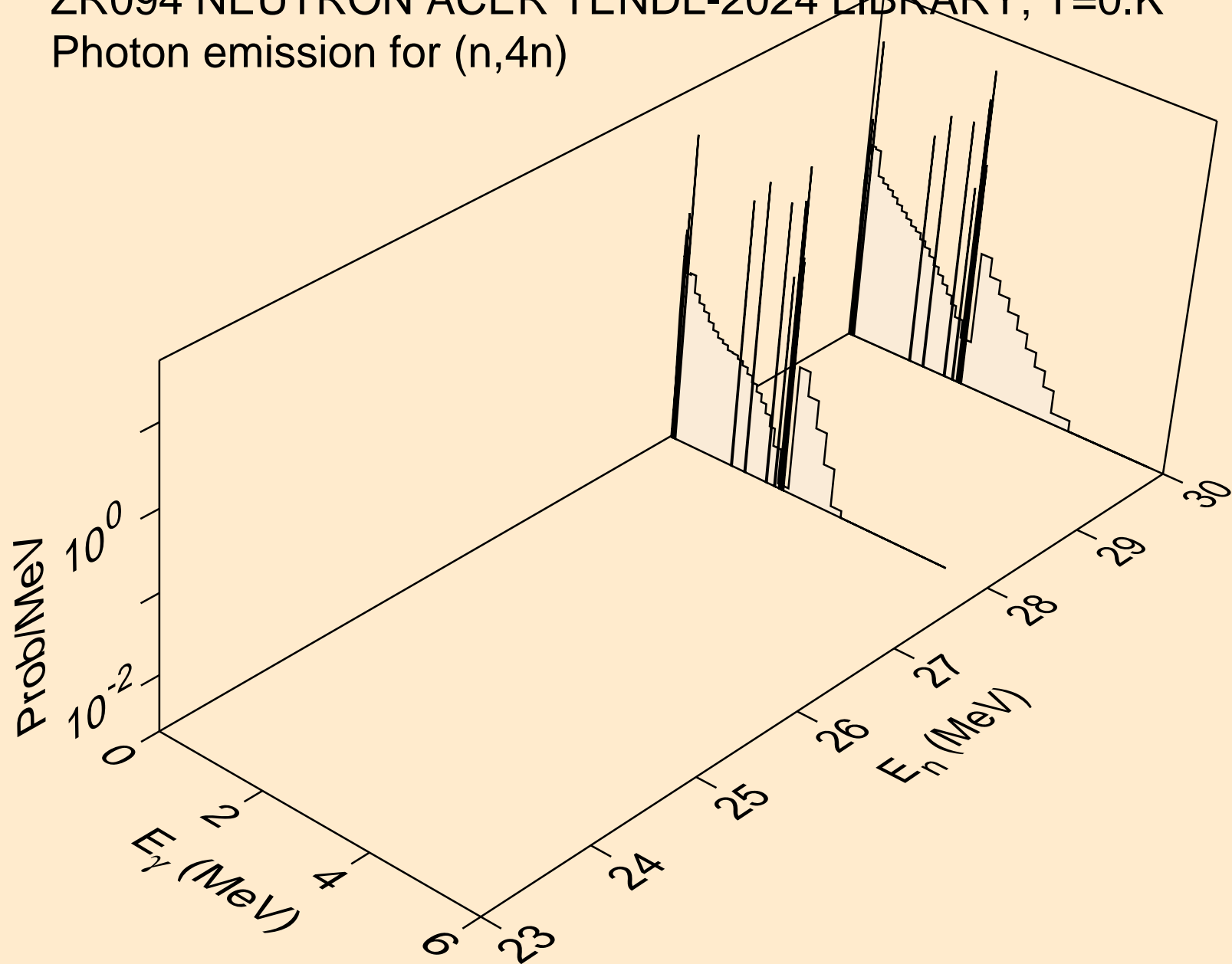
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

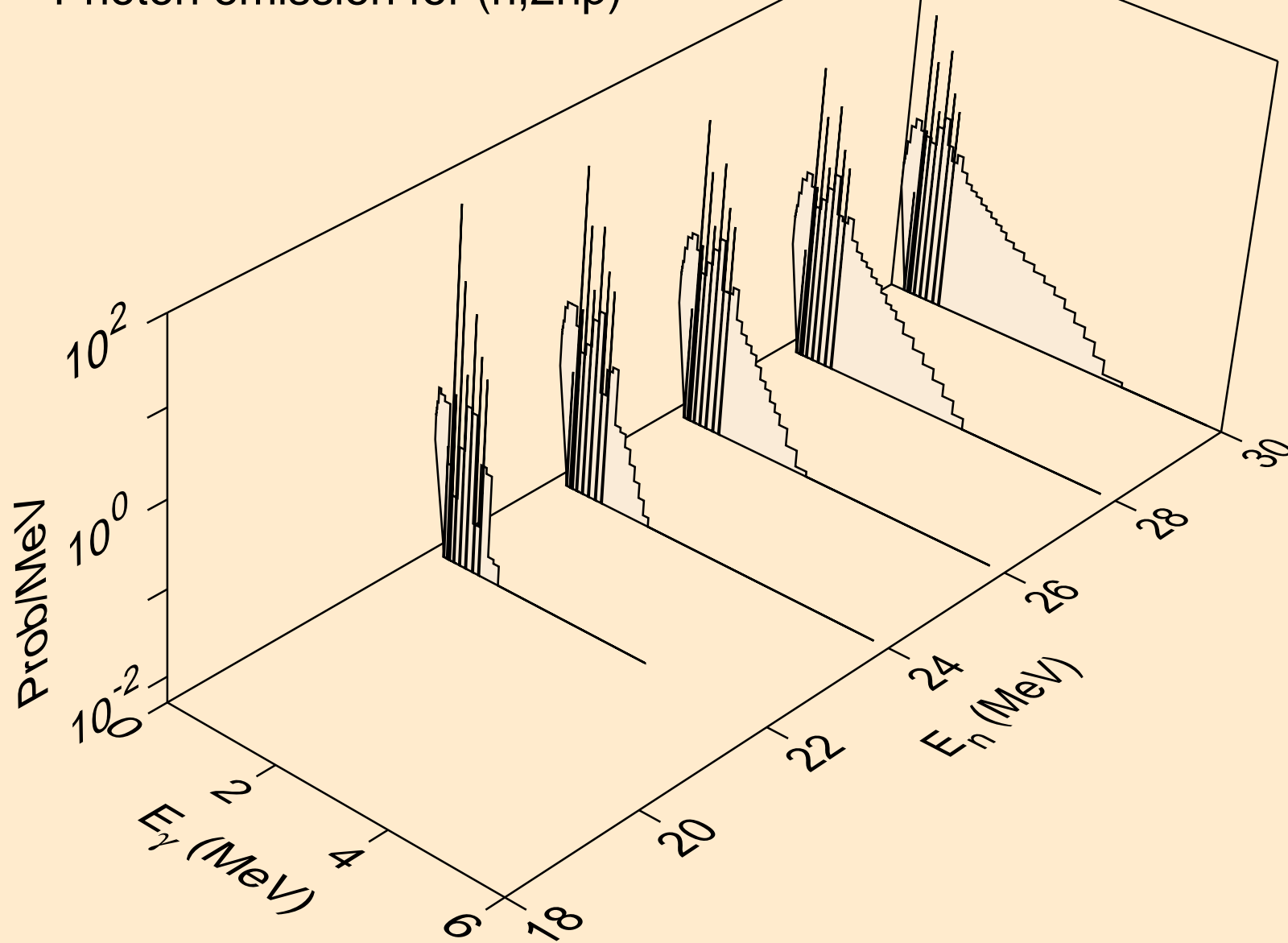


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)

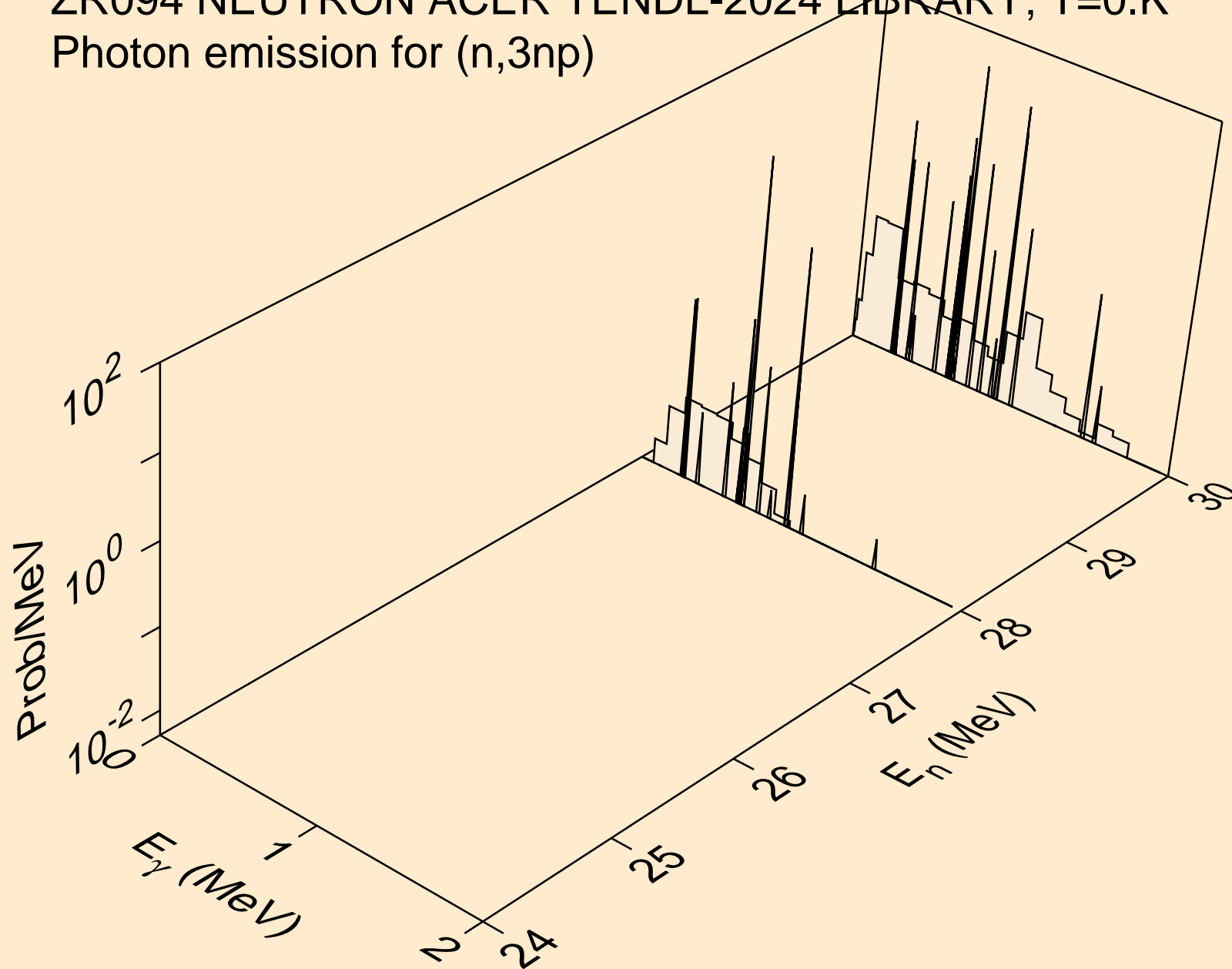




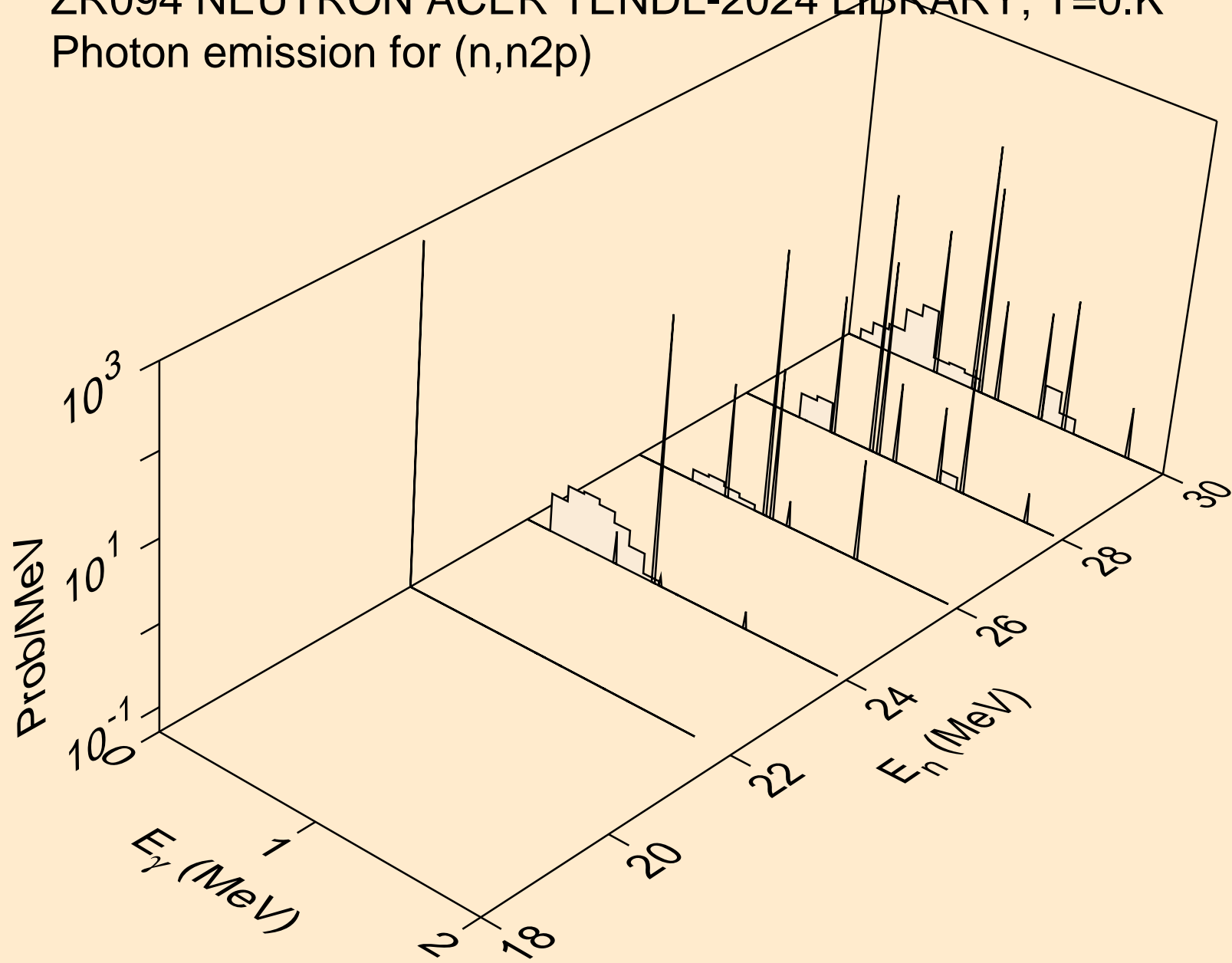
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Photon emission for (n,2np)



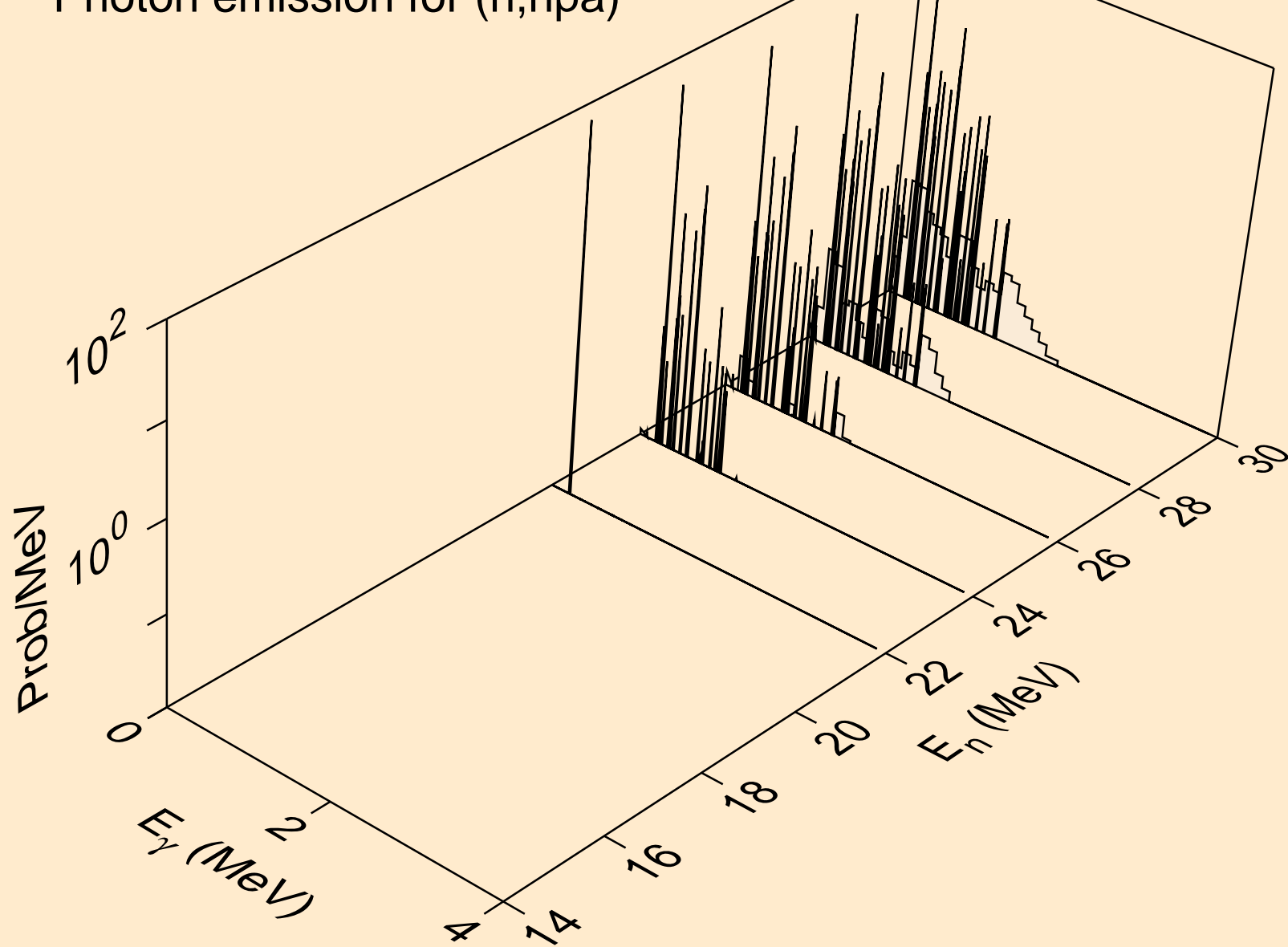
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Photon emission for (n,3np)



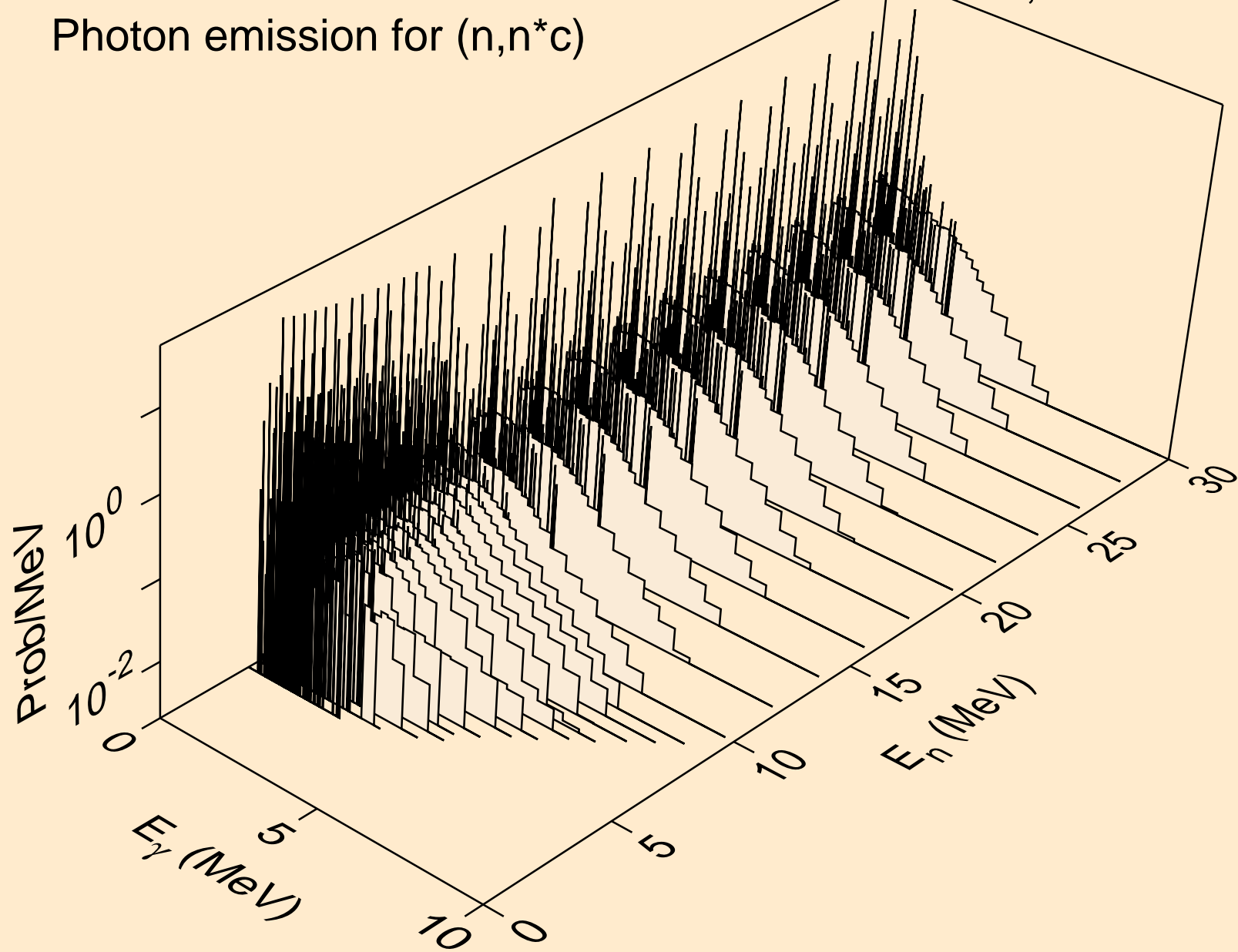
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Photon emission for (n,n2p)



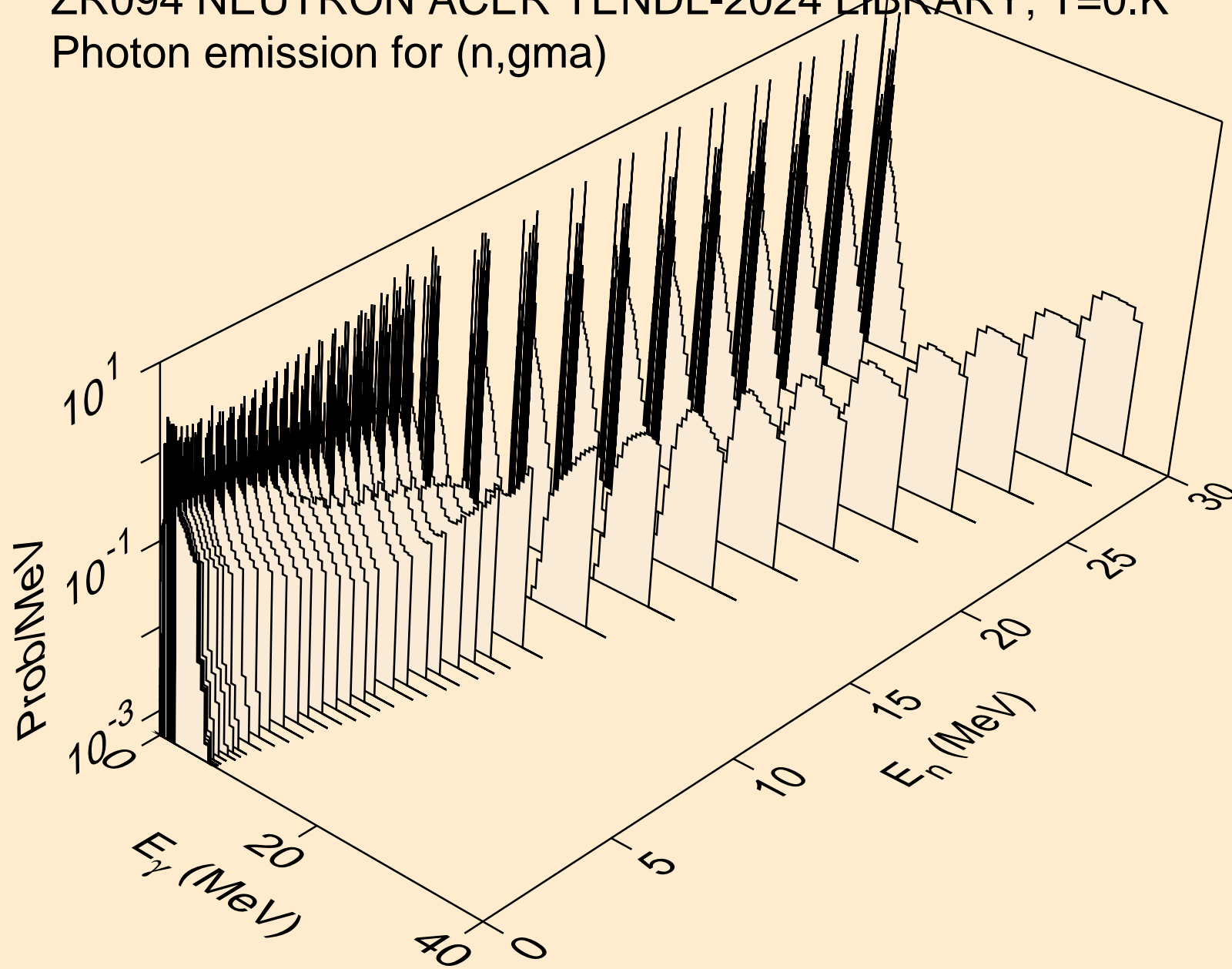
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Photon emission for (n,npa)



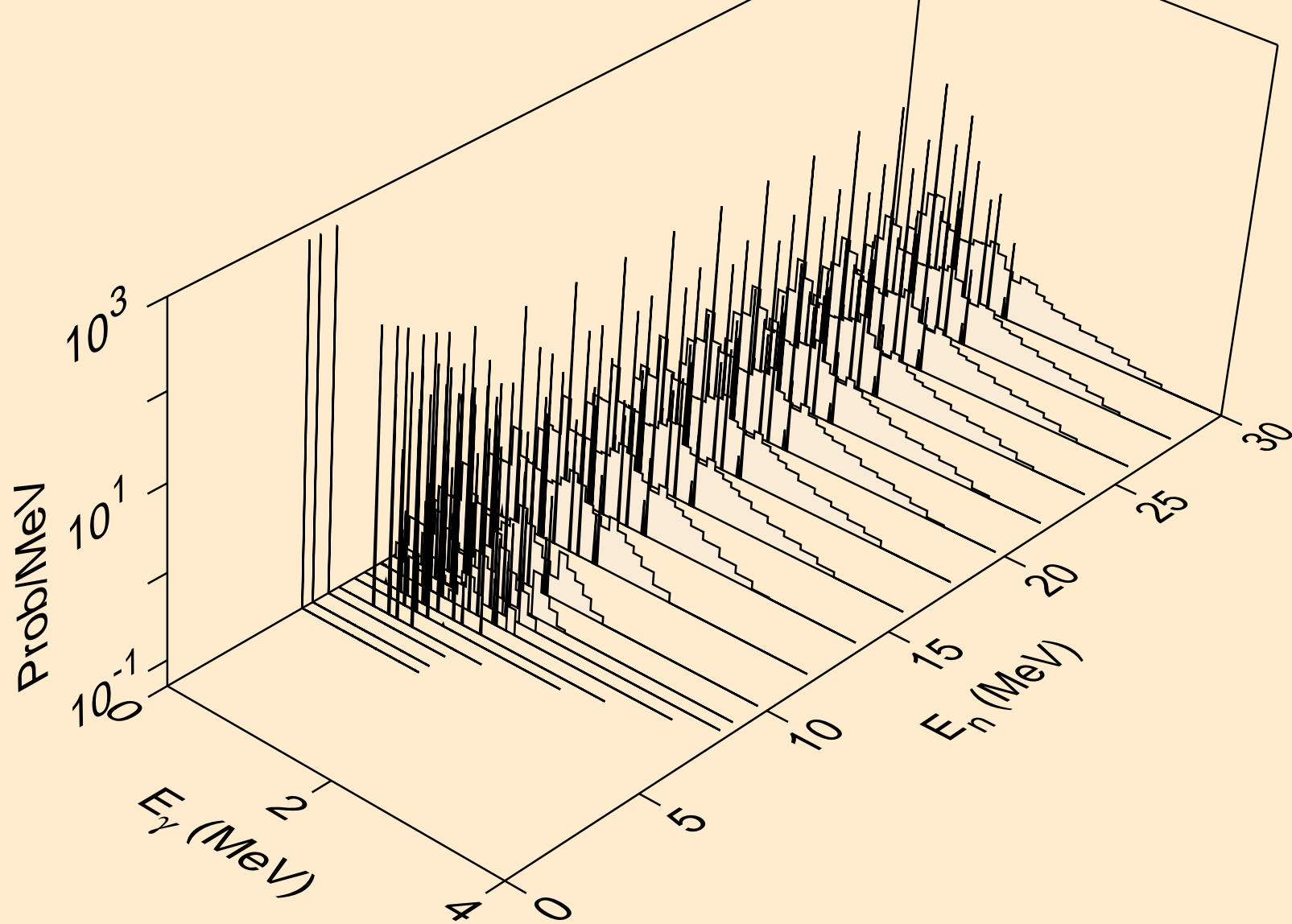
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Photon emission for (n,n\*c)



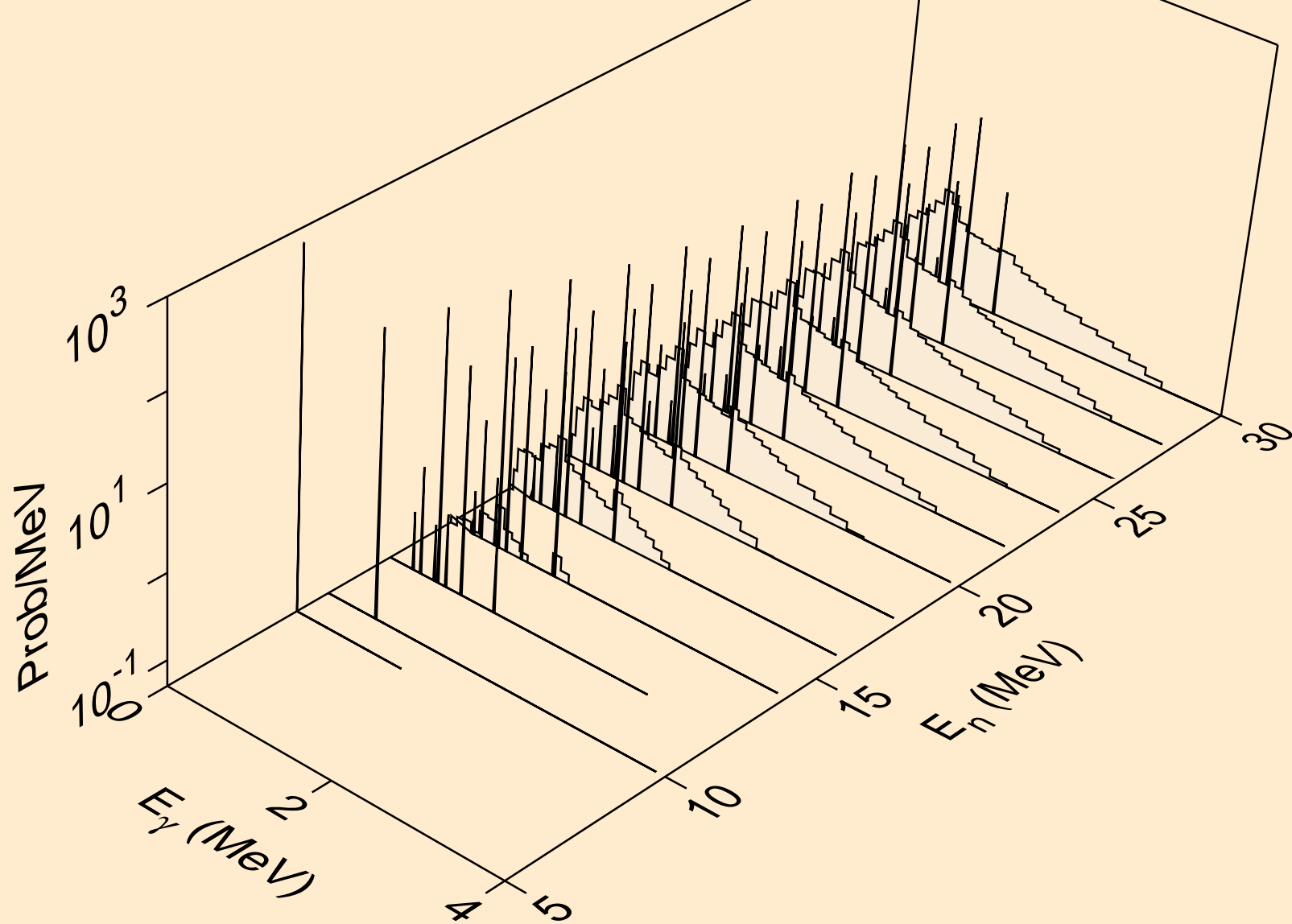
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

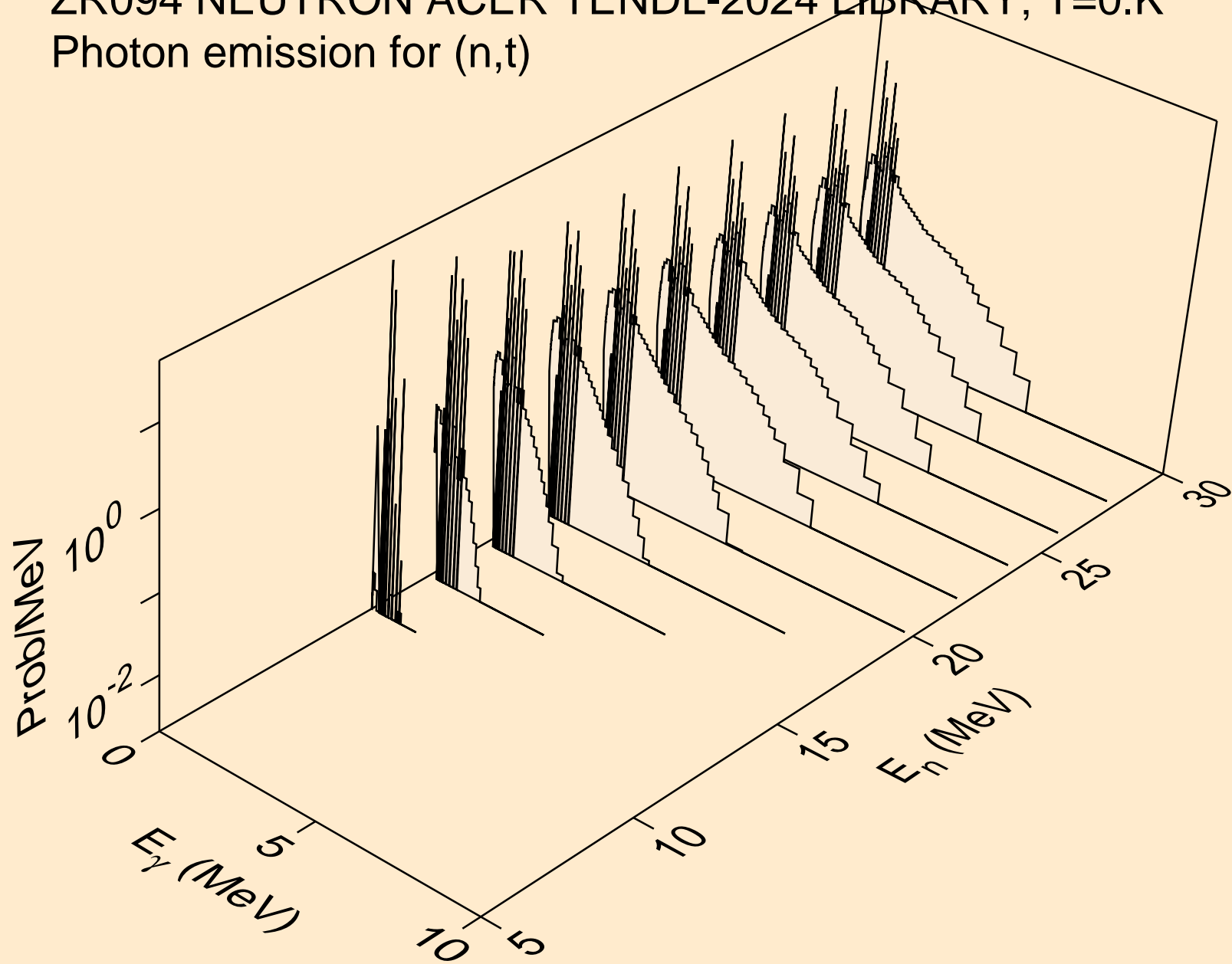


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Photon emission for (n,d)

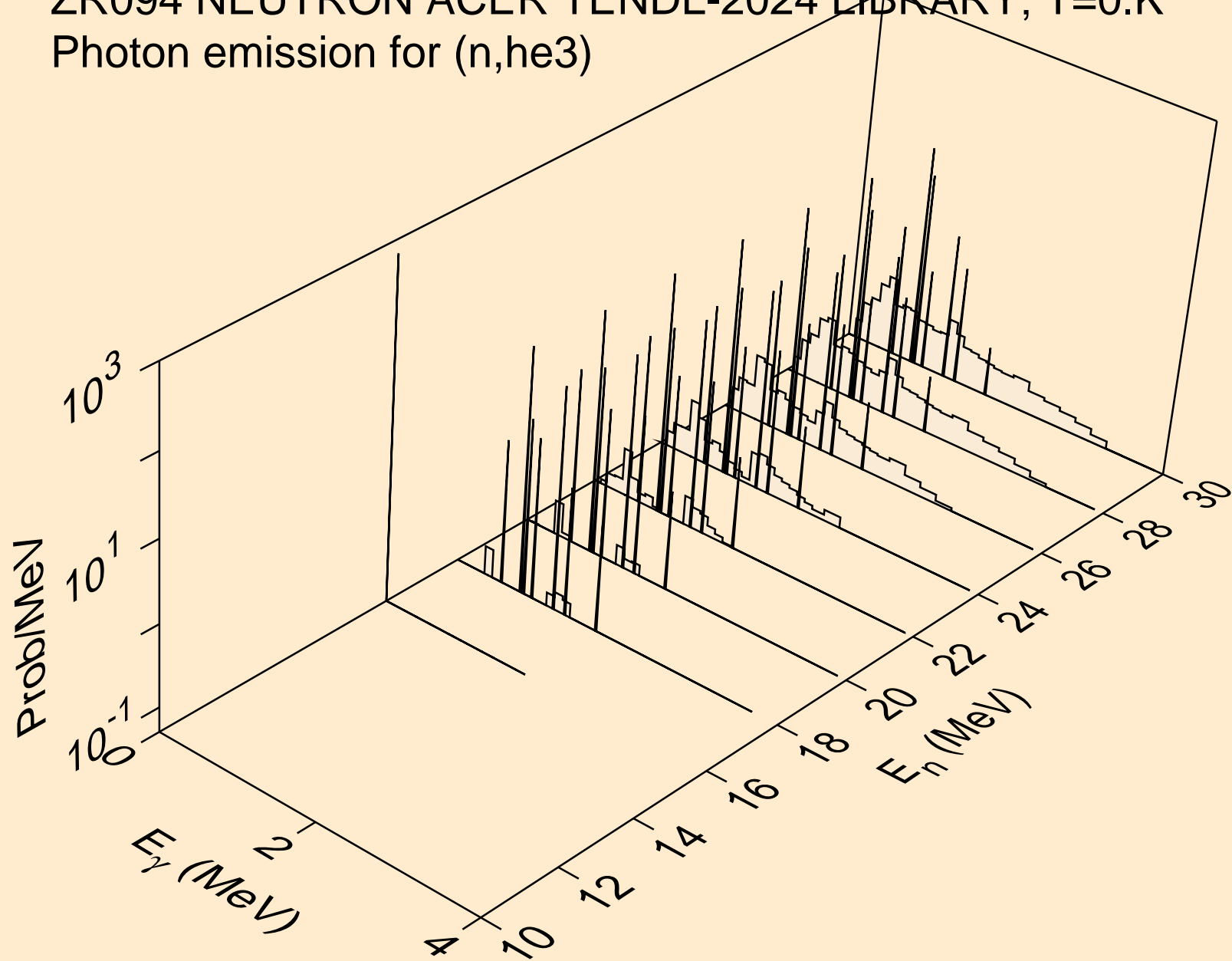




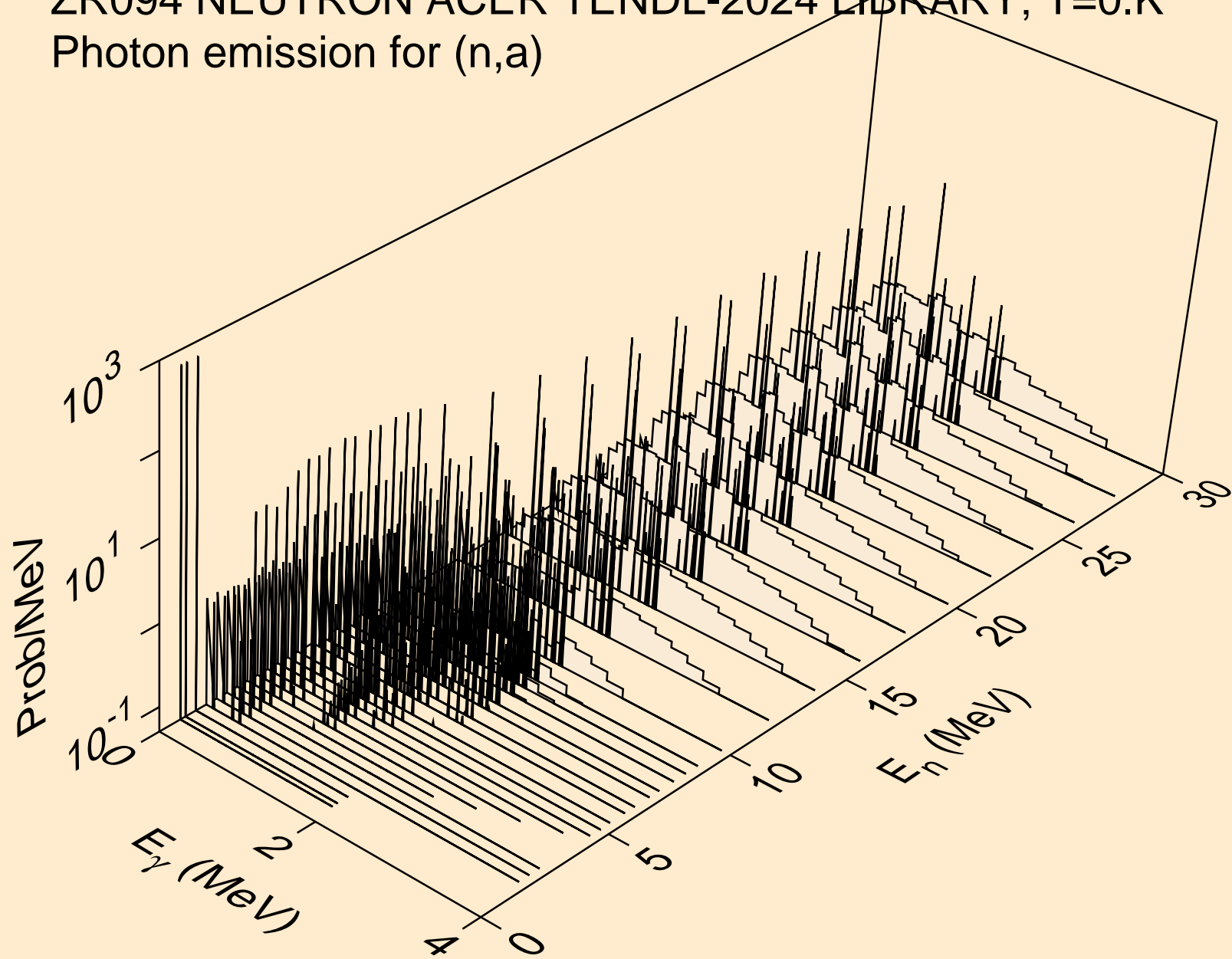
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Photon emission for (n,t)



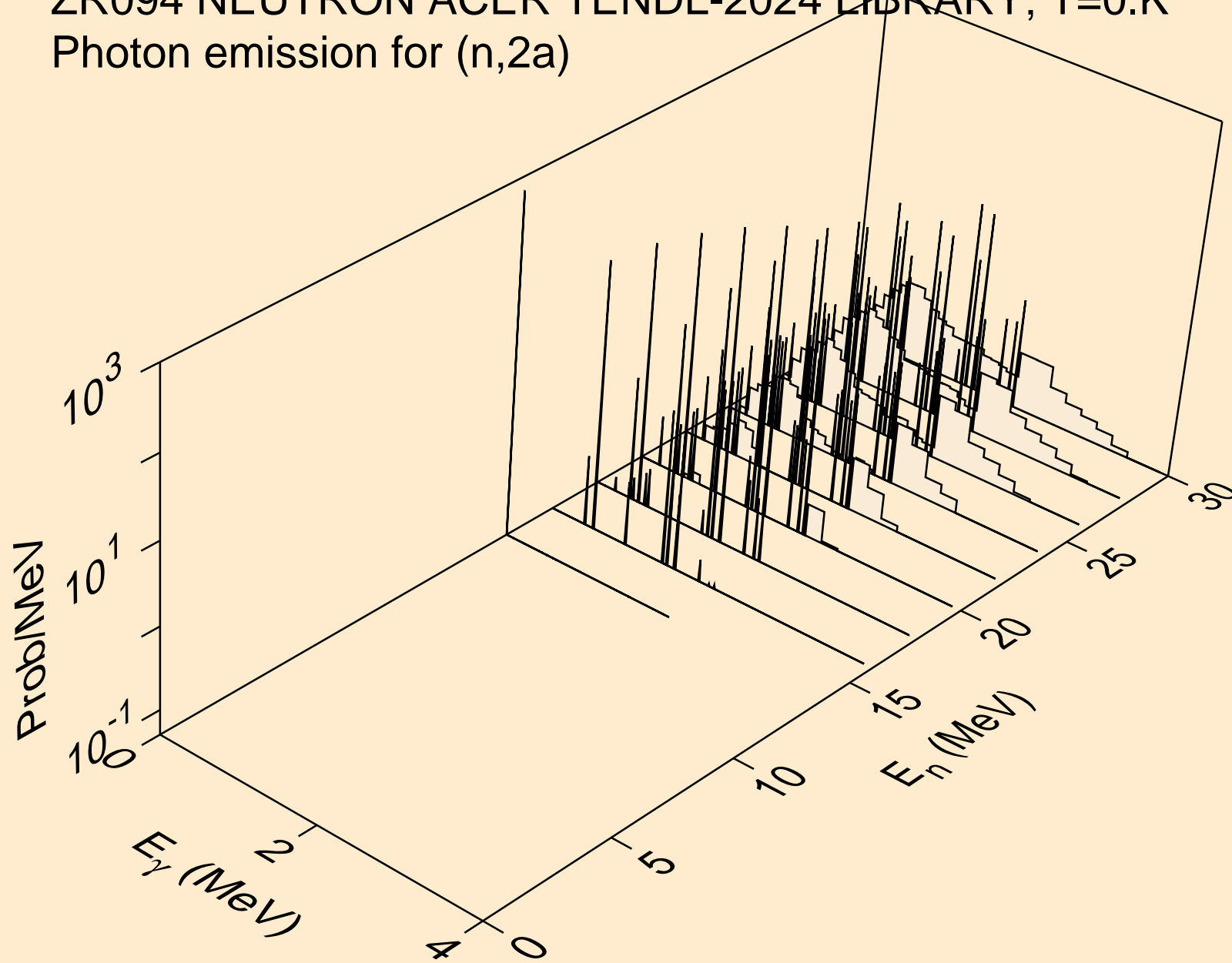
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Photon emission for (n,he3)



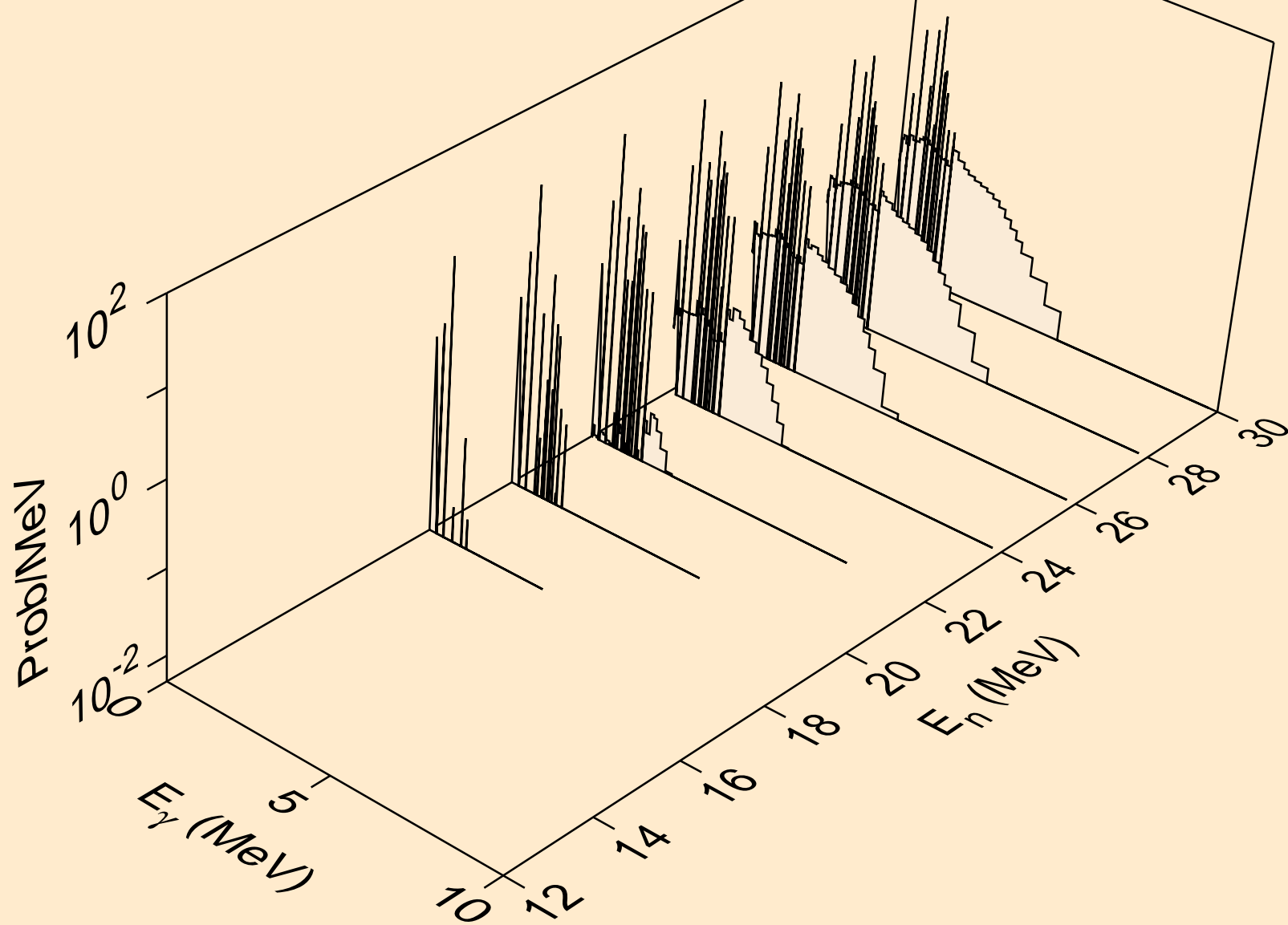
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Photon emission for (n,a)



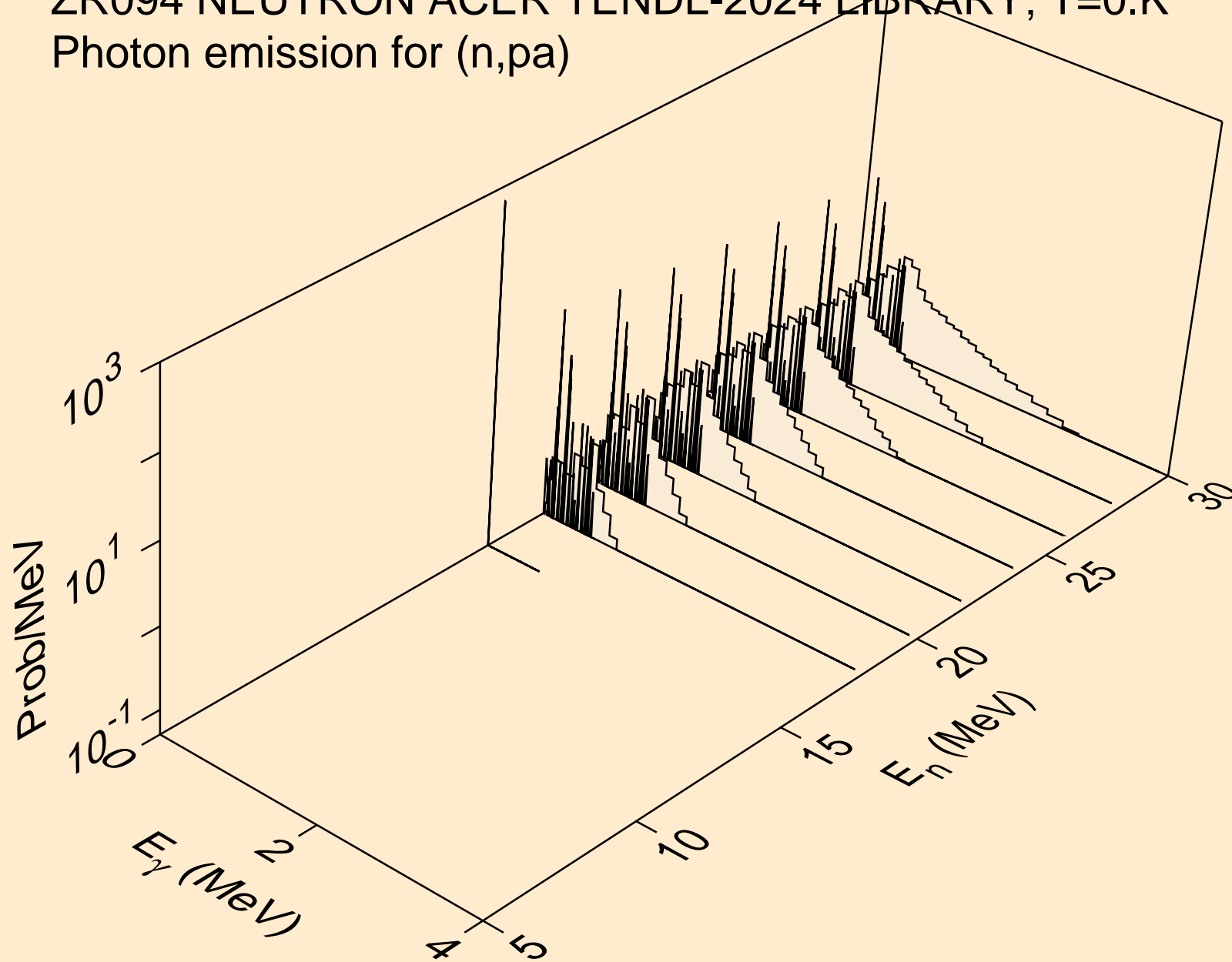
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Photon emission for (n,2a)



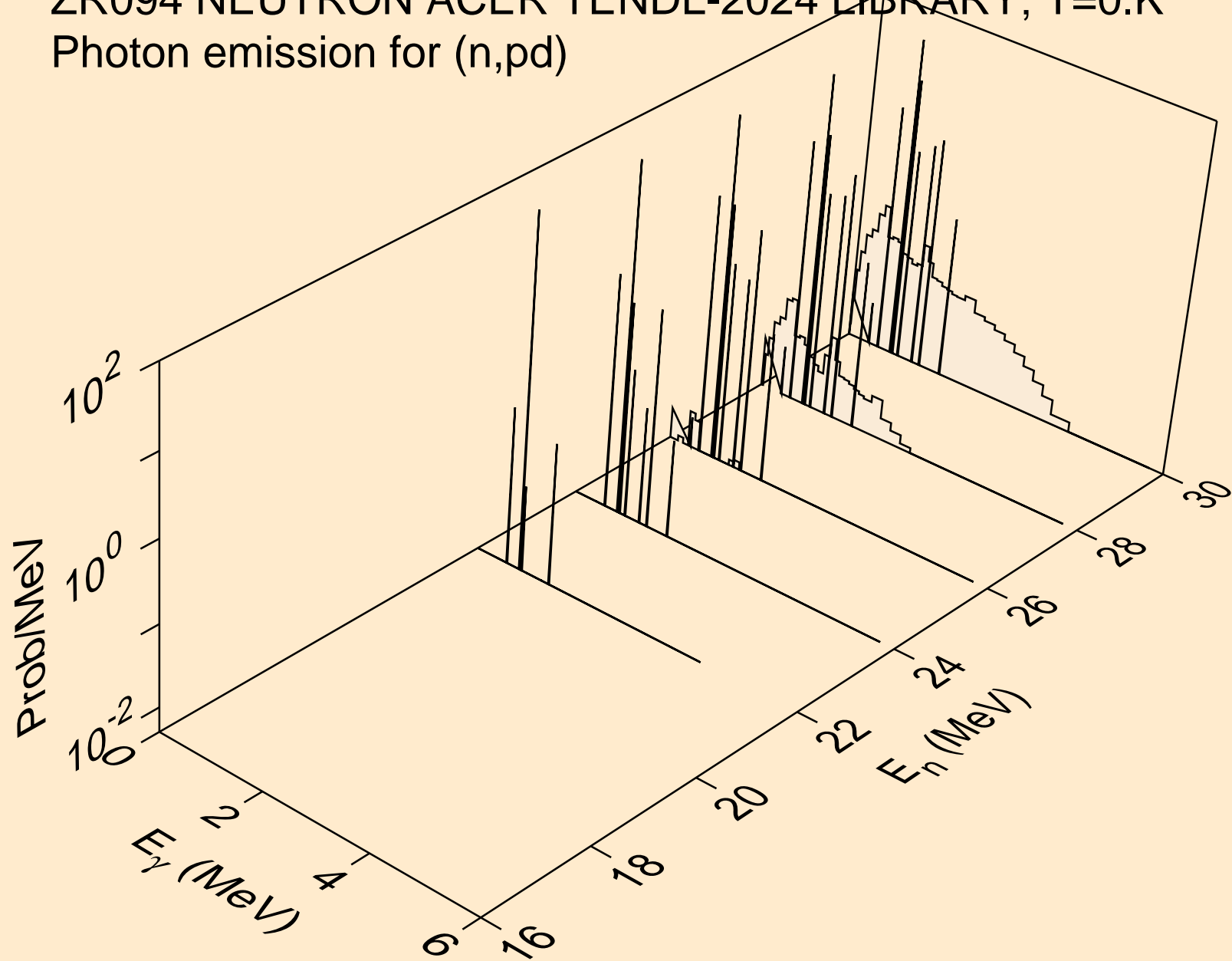
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Photon emission for (n,2p)



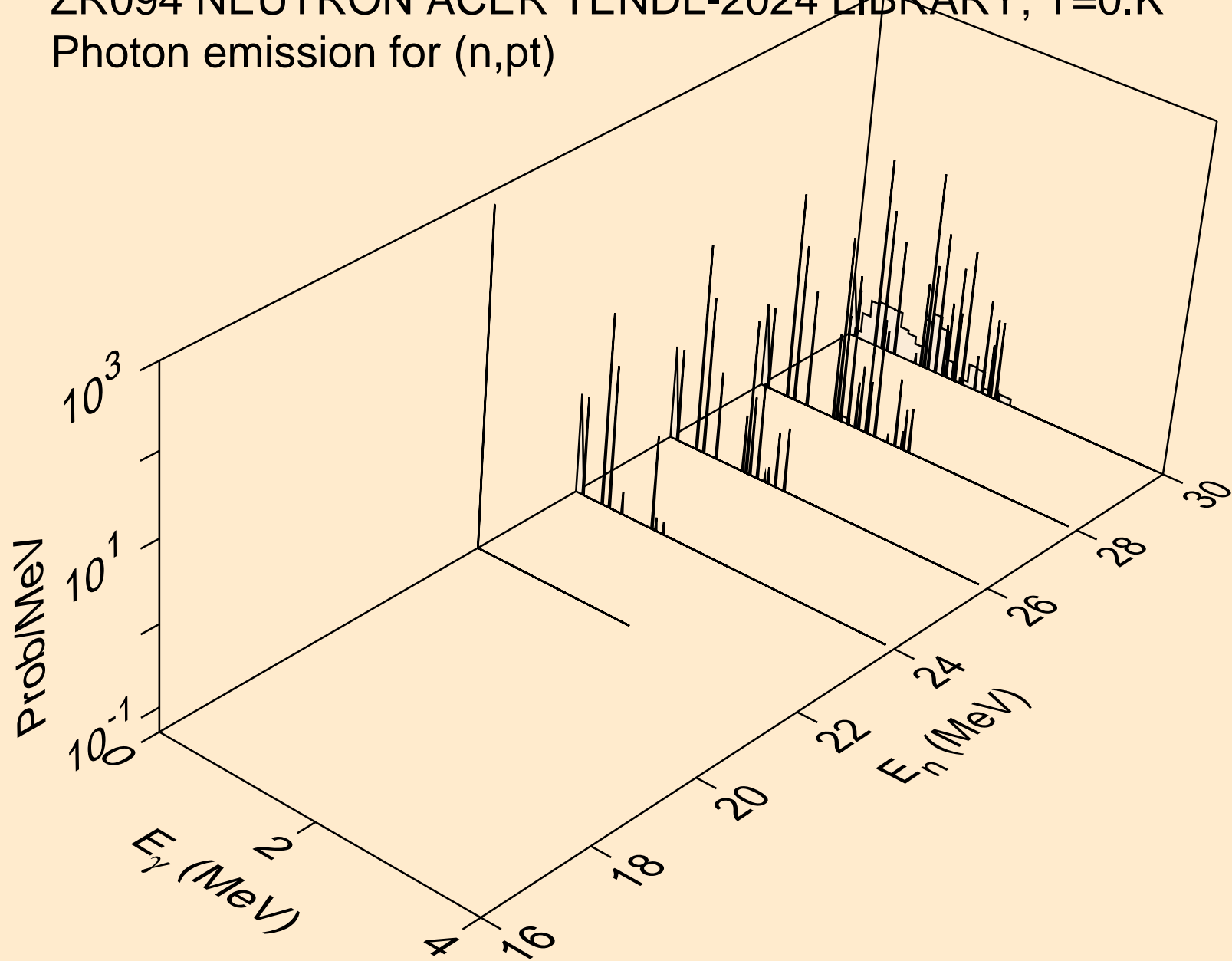
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Photon emission for (n,p $\alpha$ )



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)

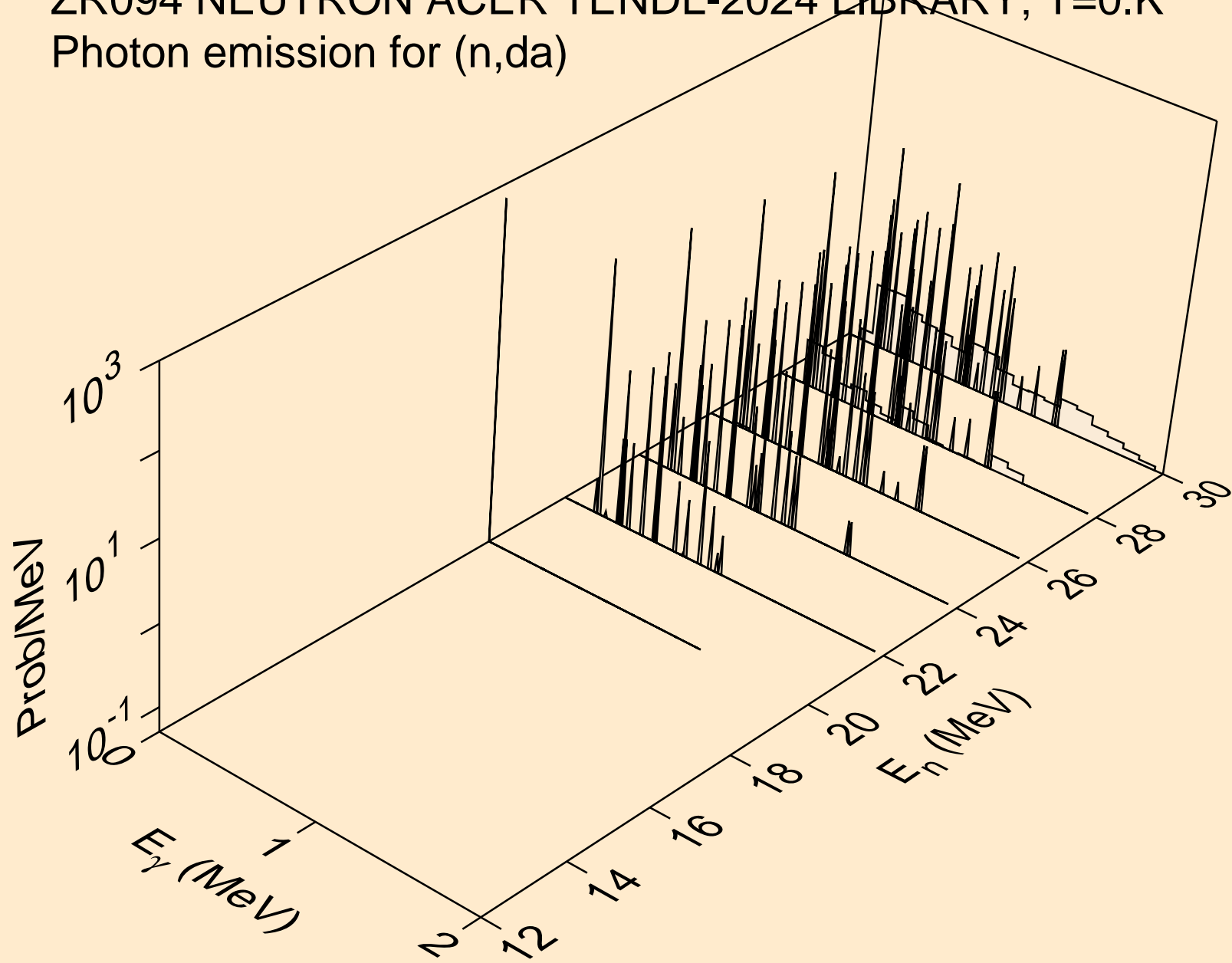


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Photon emission for (n,pt)

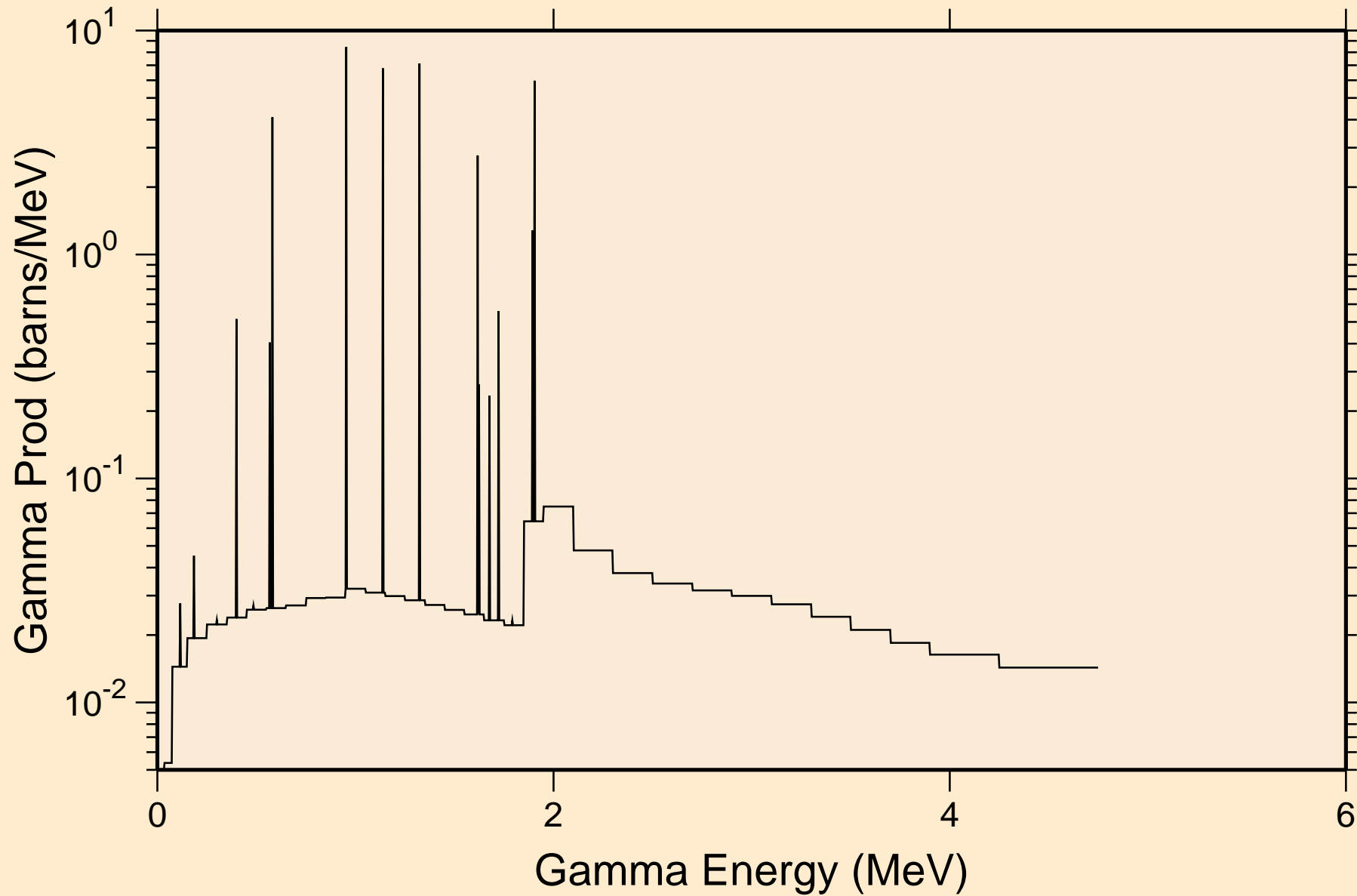




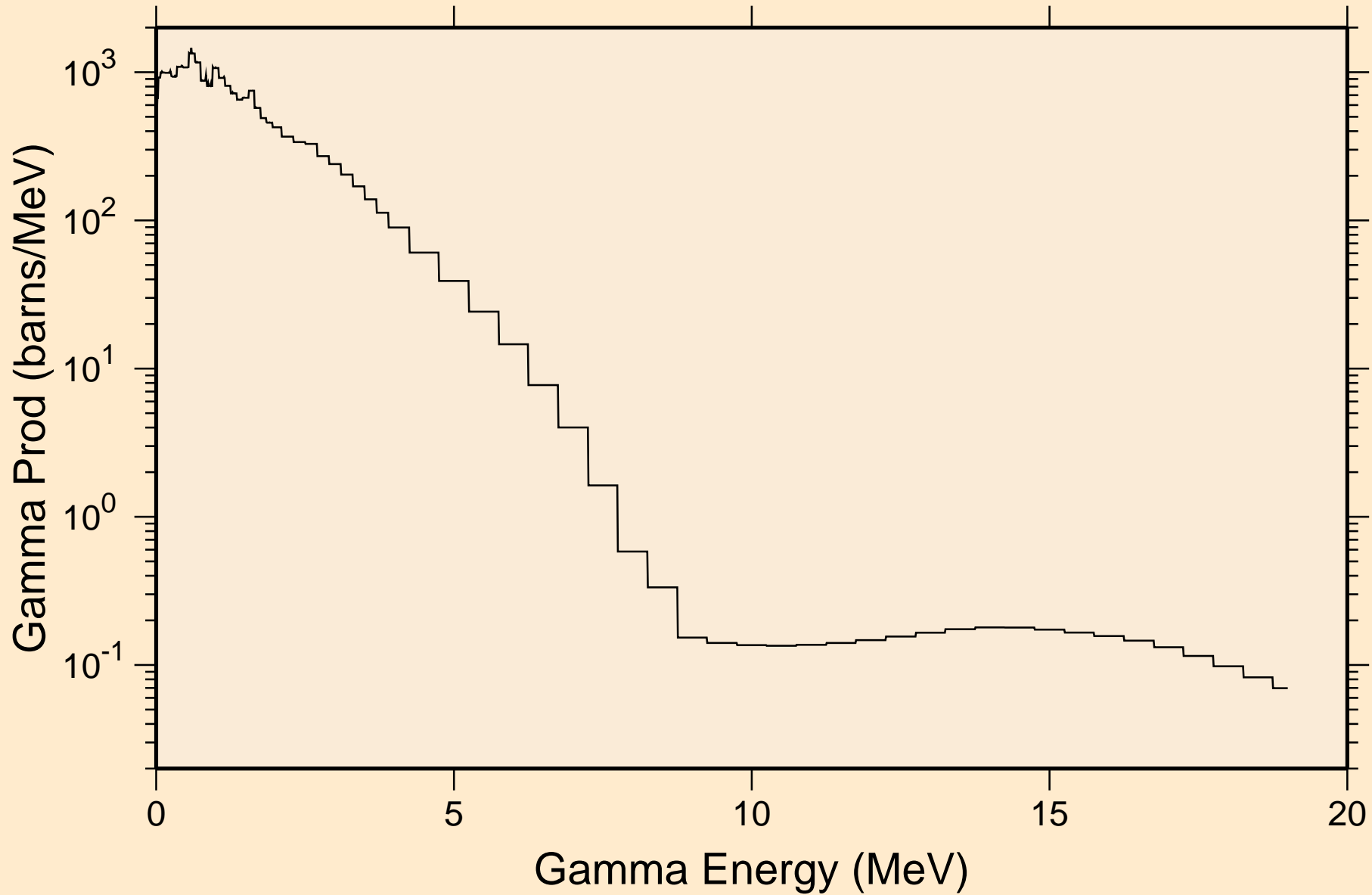
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
thermal capture photon spectrum

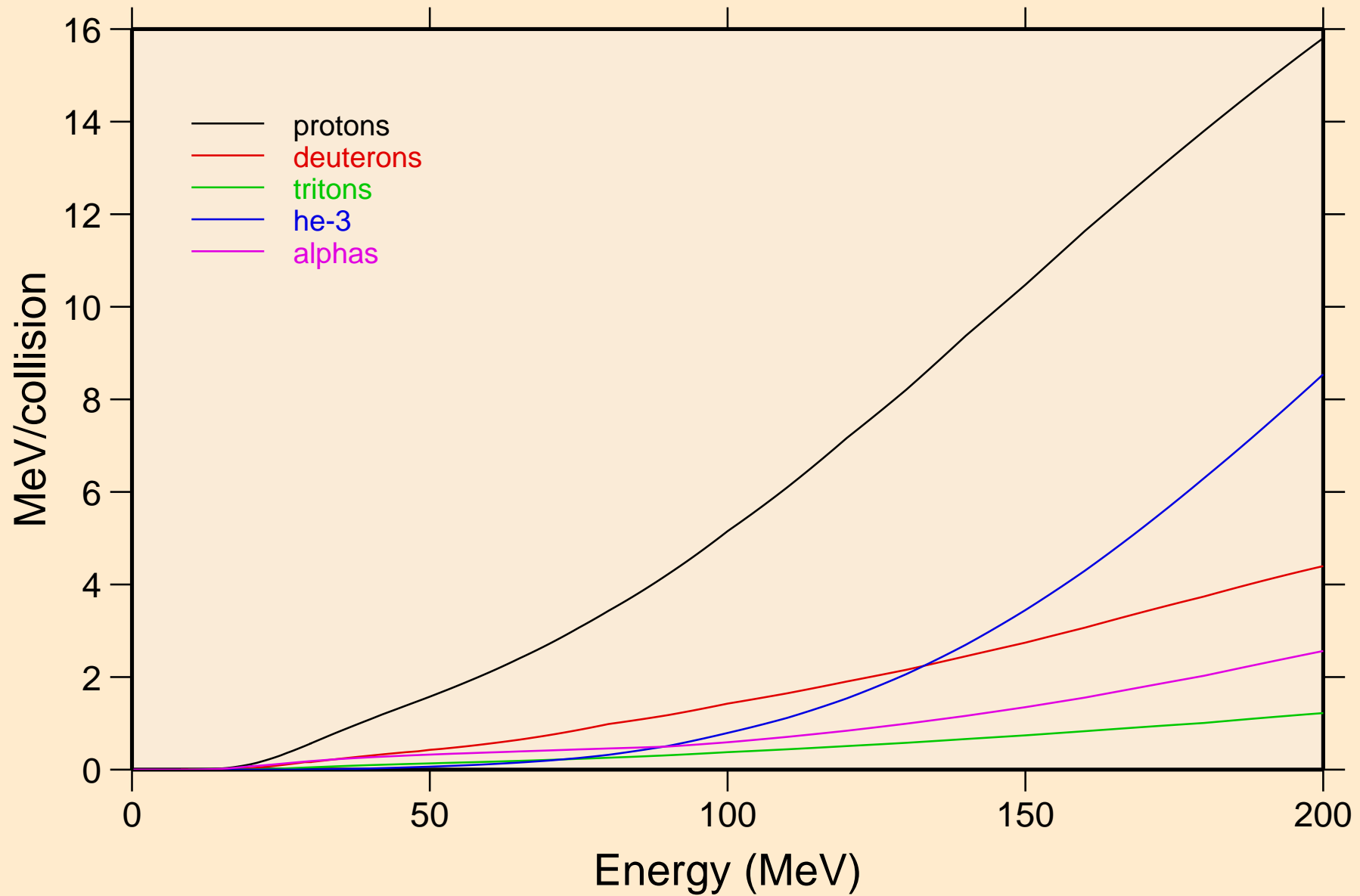


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
14 MeV photon spectrum

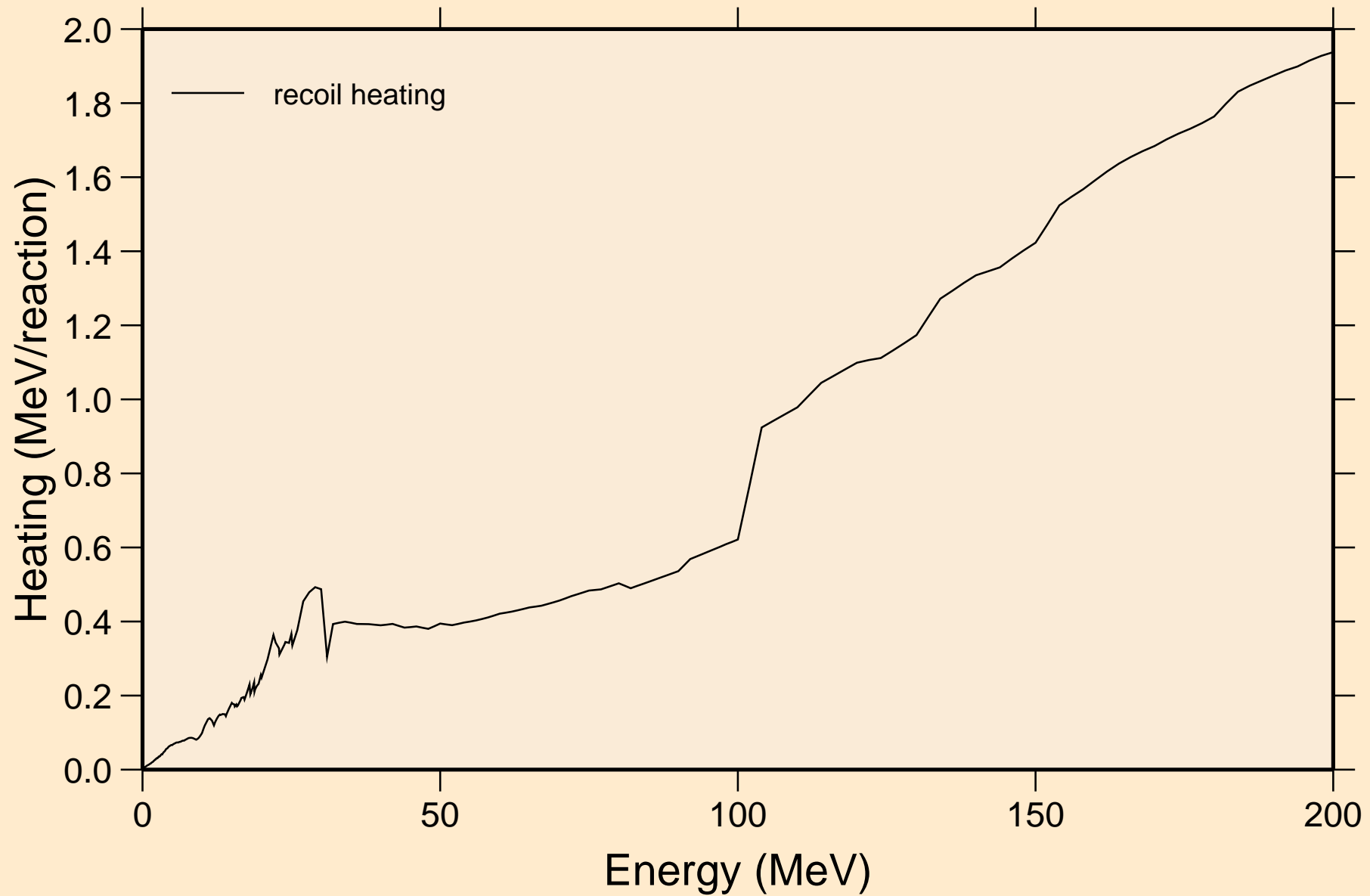


# ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

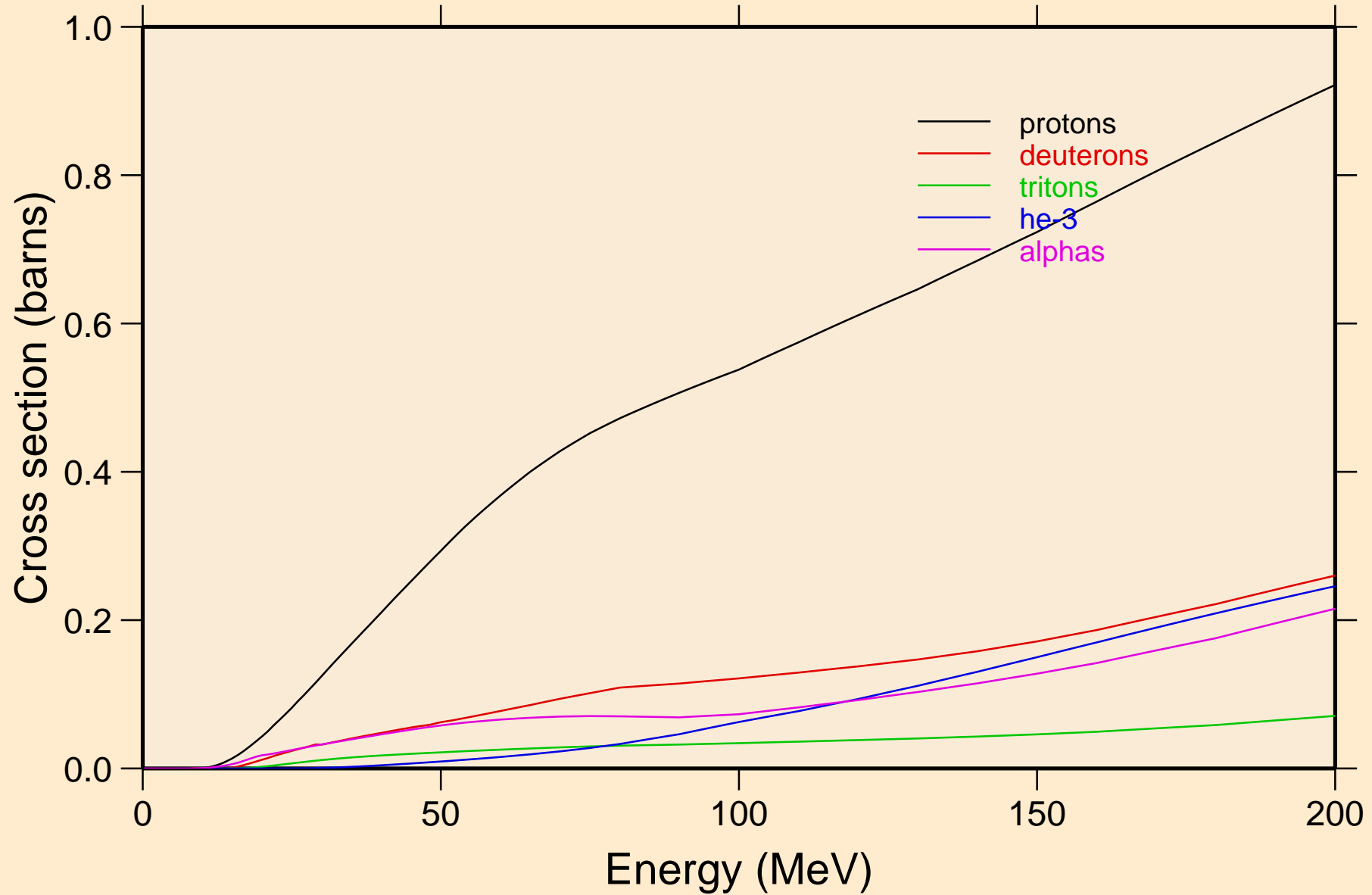
## Particle heating contributions



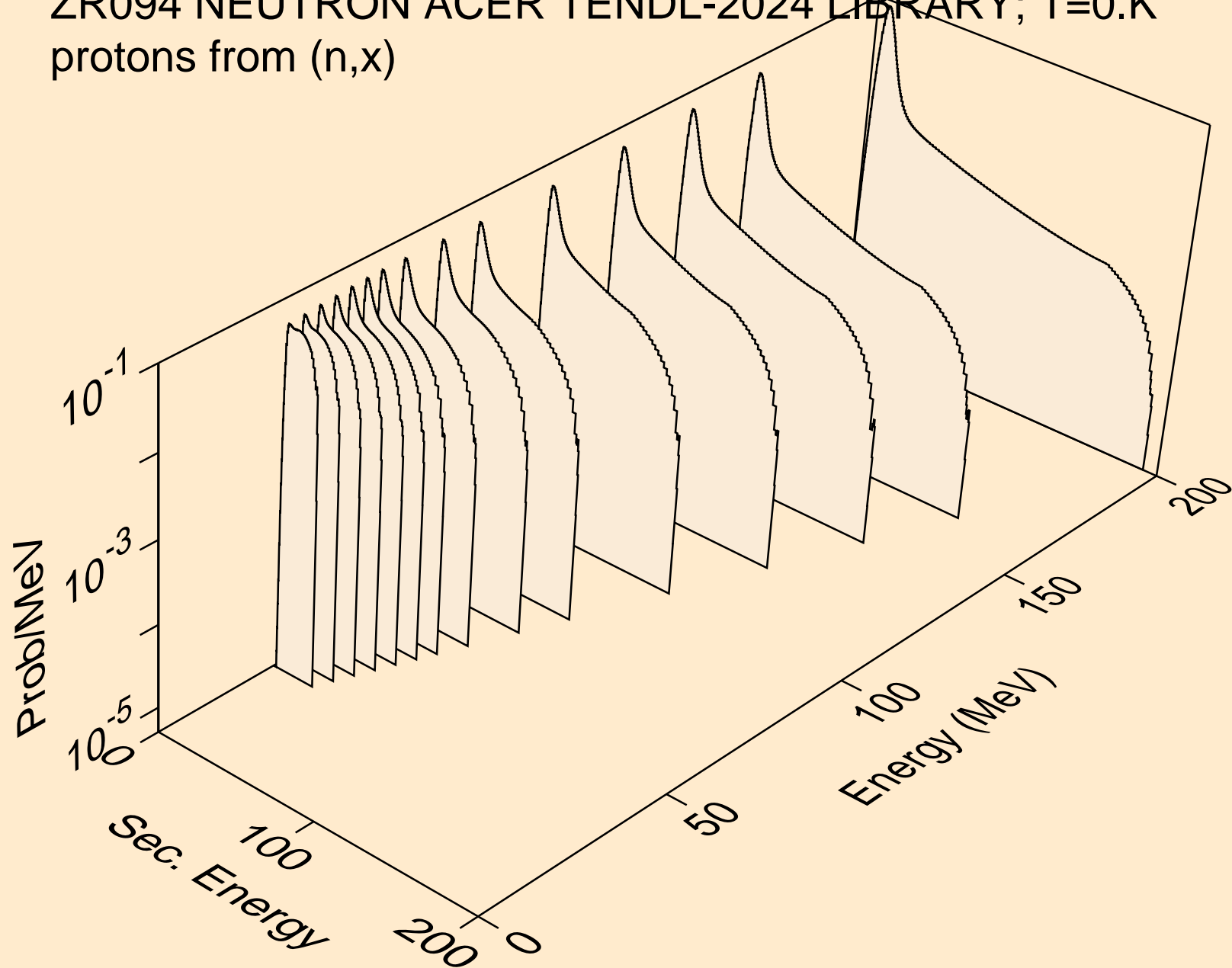
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Recoil Heating



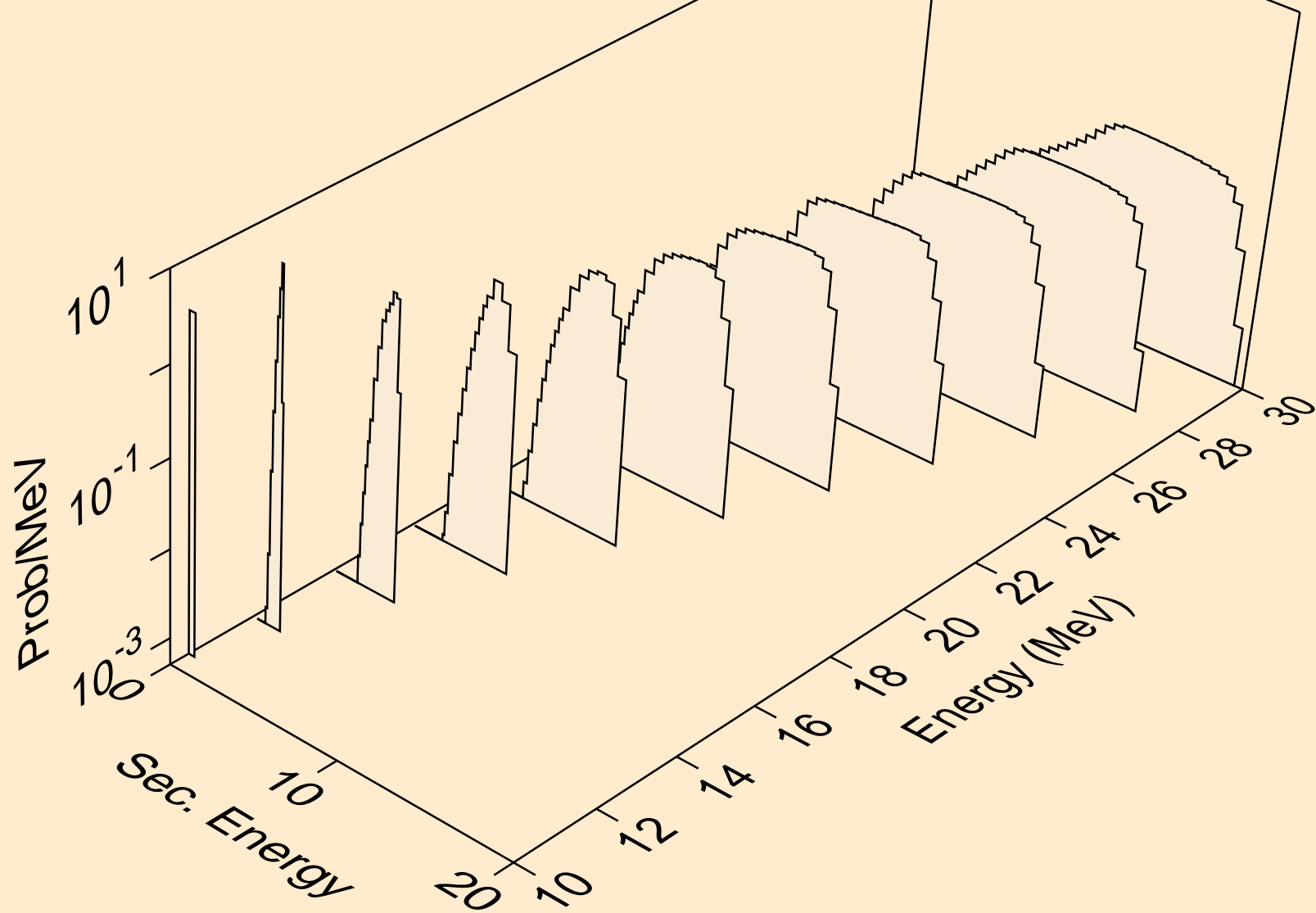
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,x)

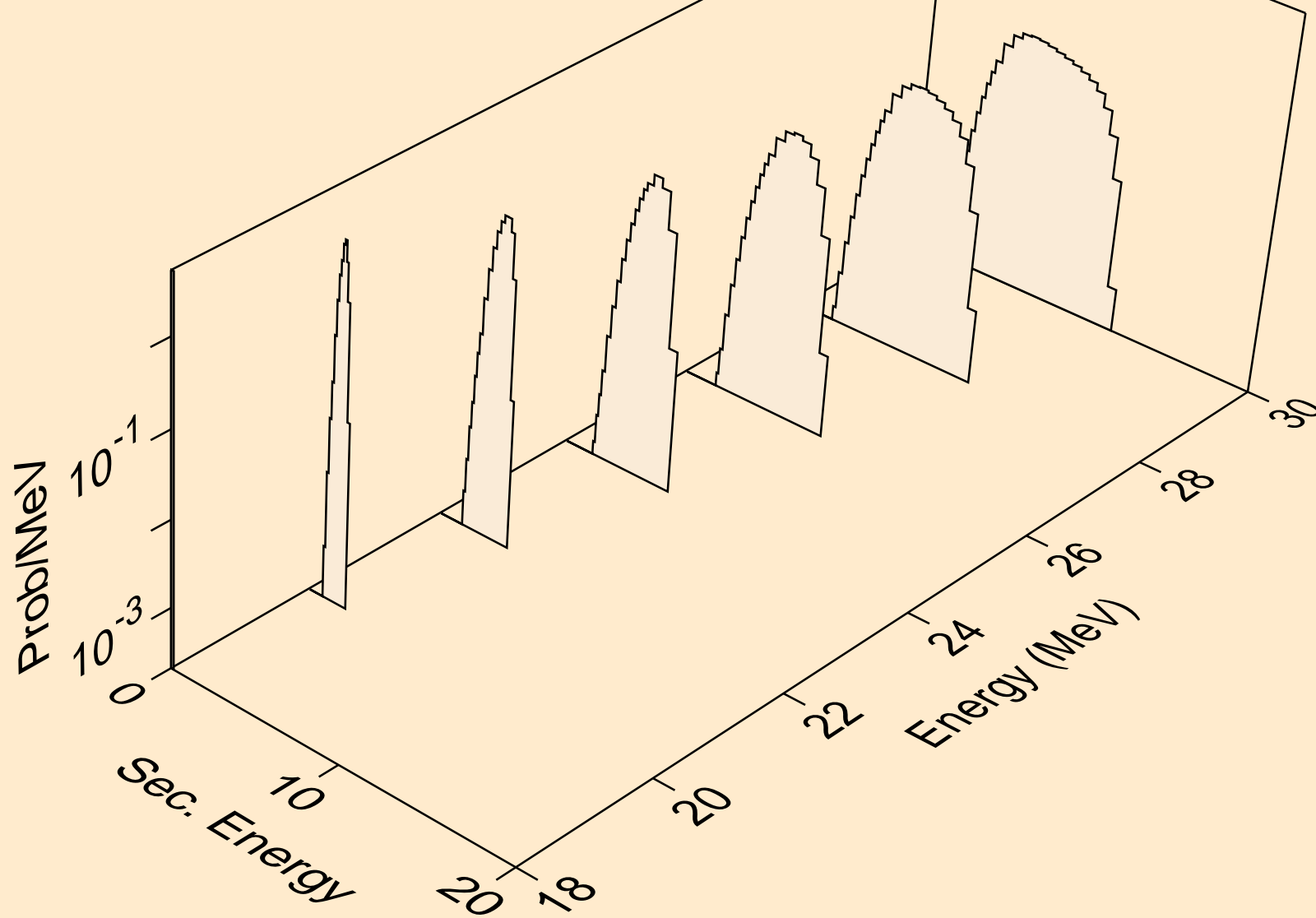


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protons from (n,n\*)p

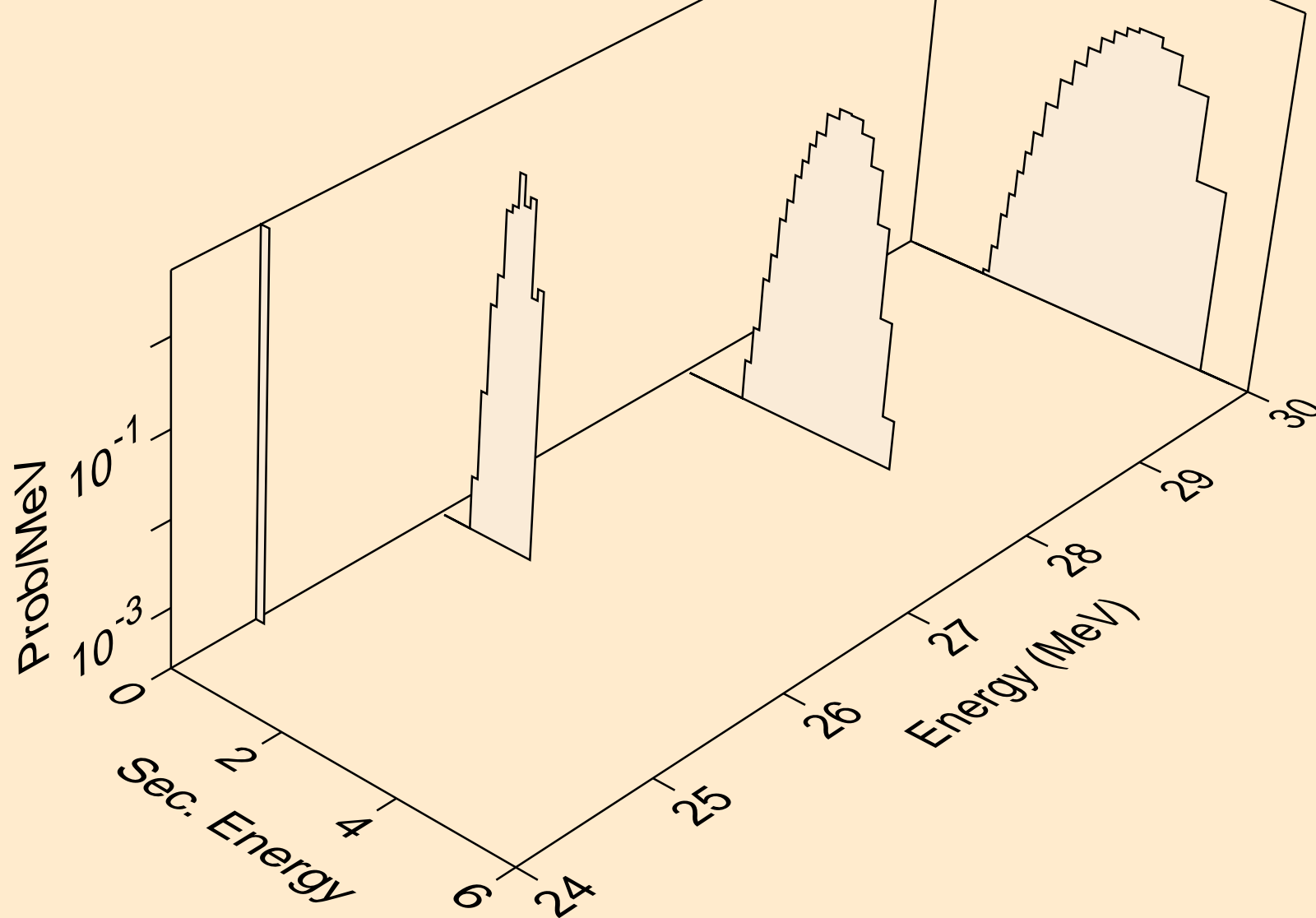




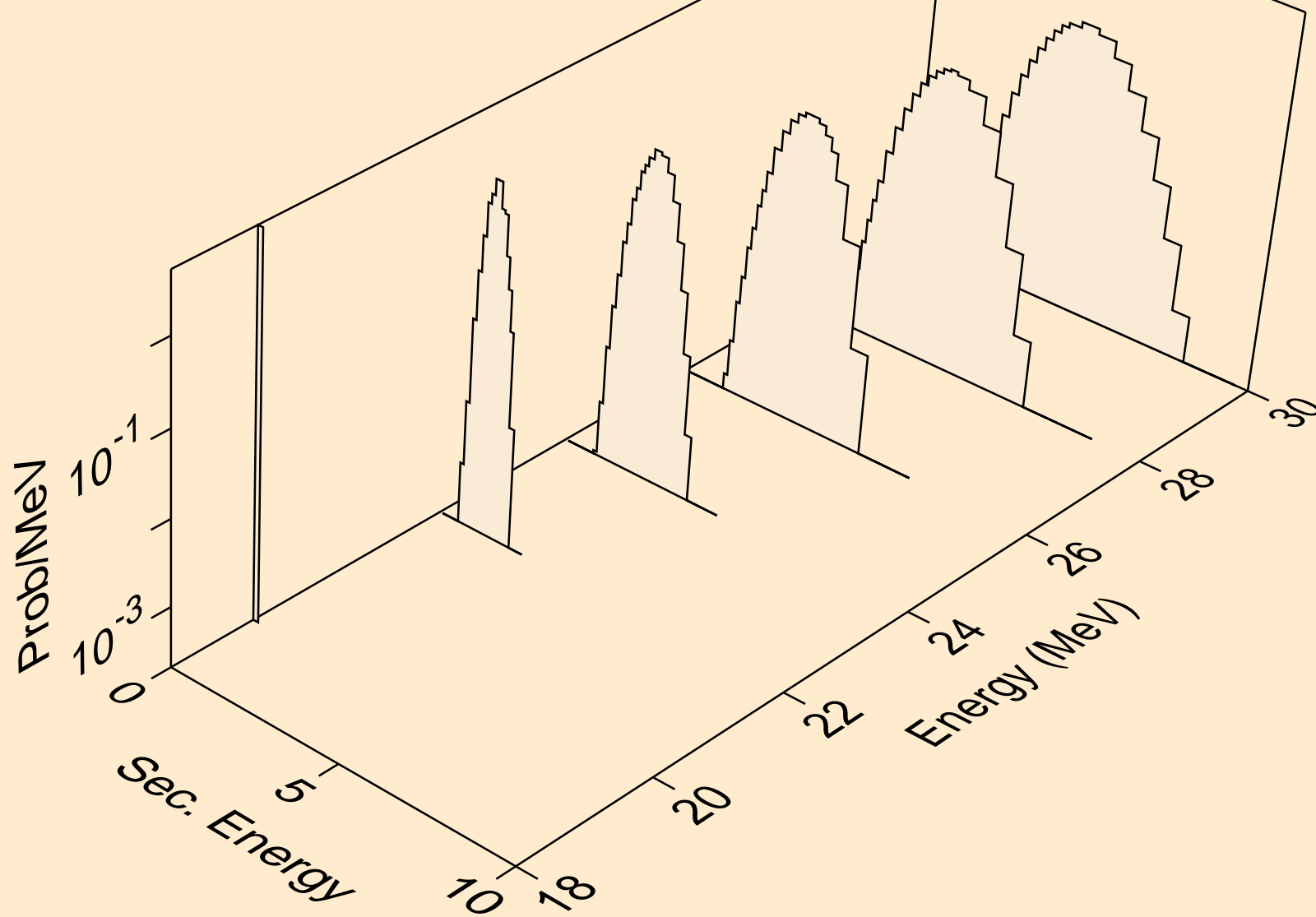
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protons from (n,2np)



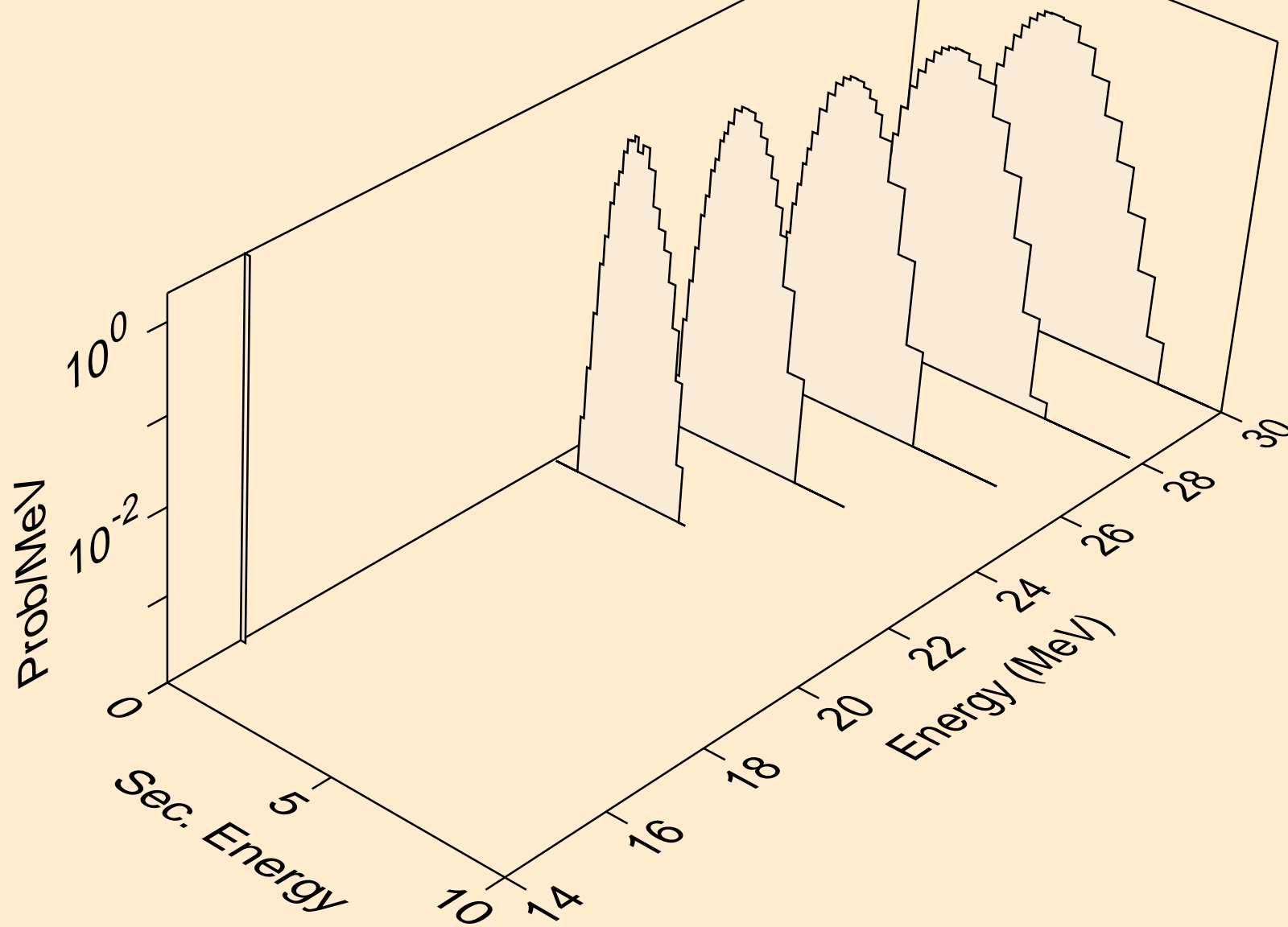
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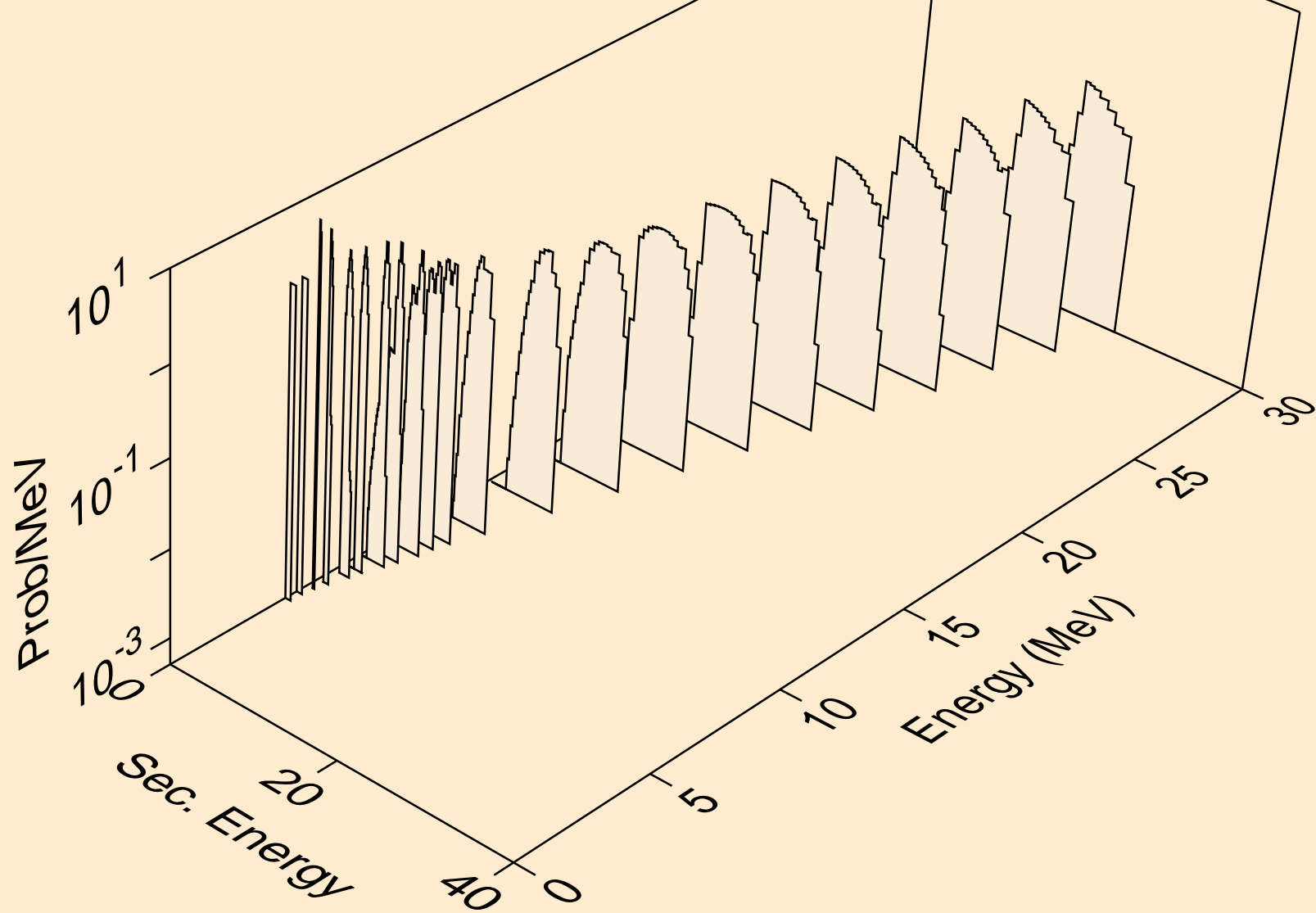
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protons from (n,n2p)



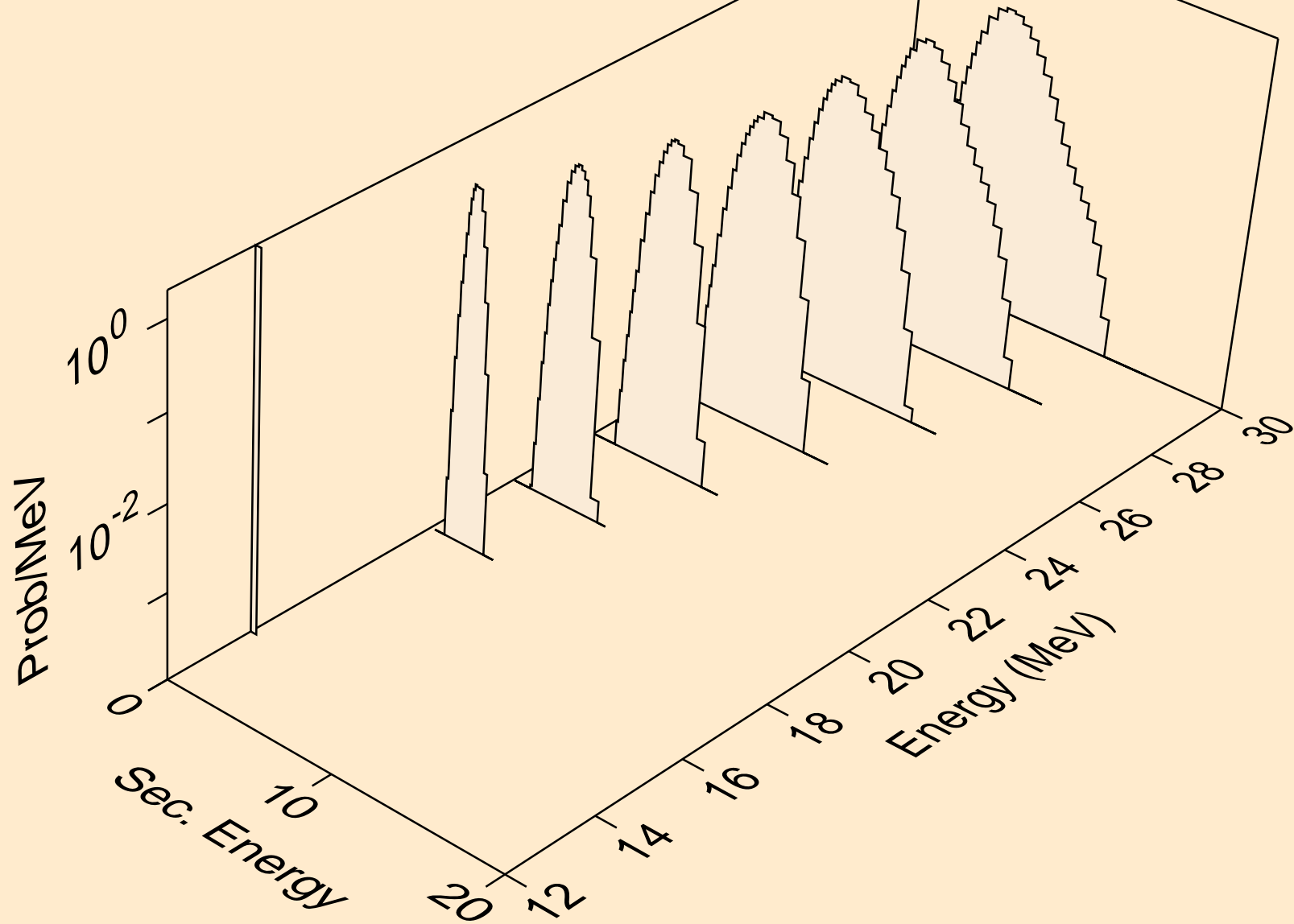
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protons from (n,npa)



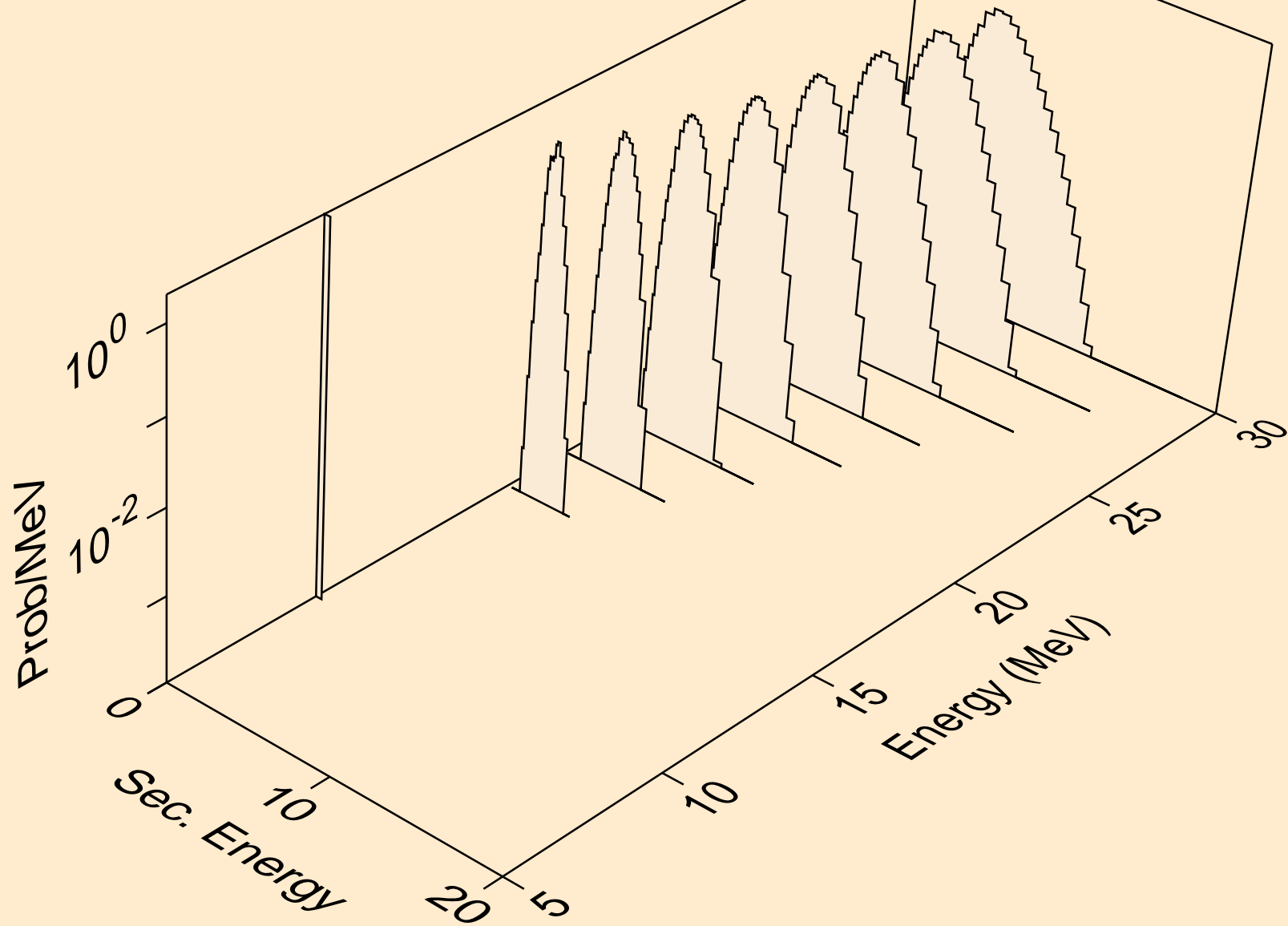
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protons from (n,p)



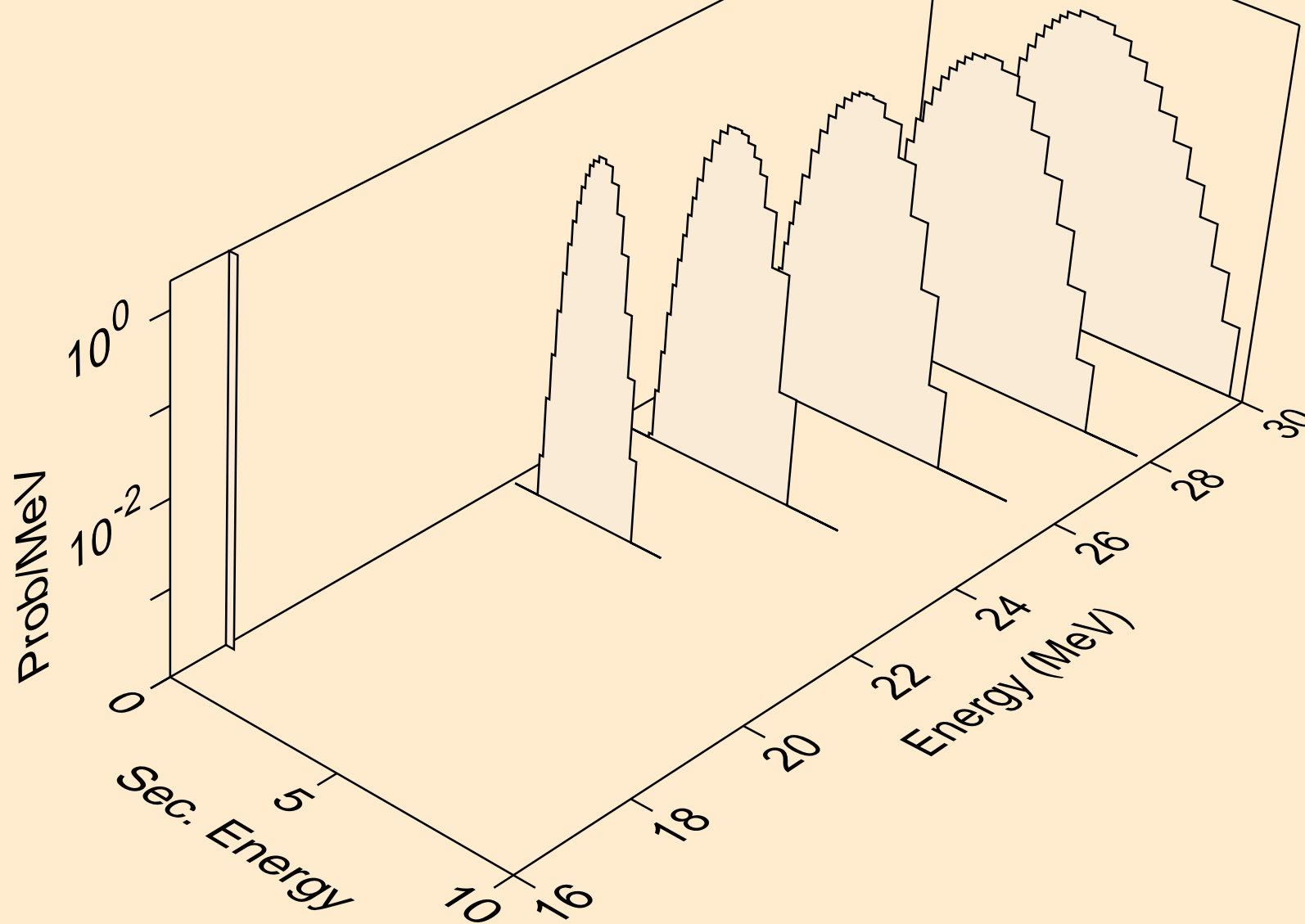
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protons from (n,2p)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,p)

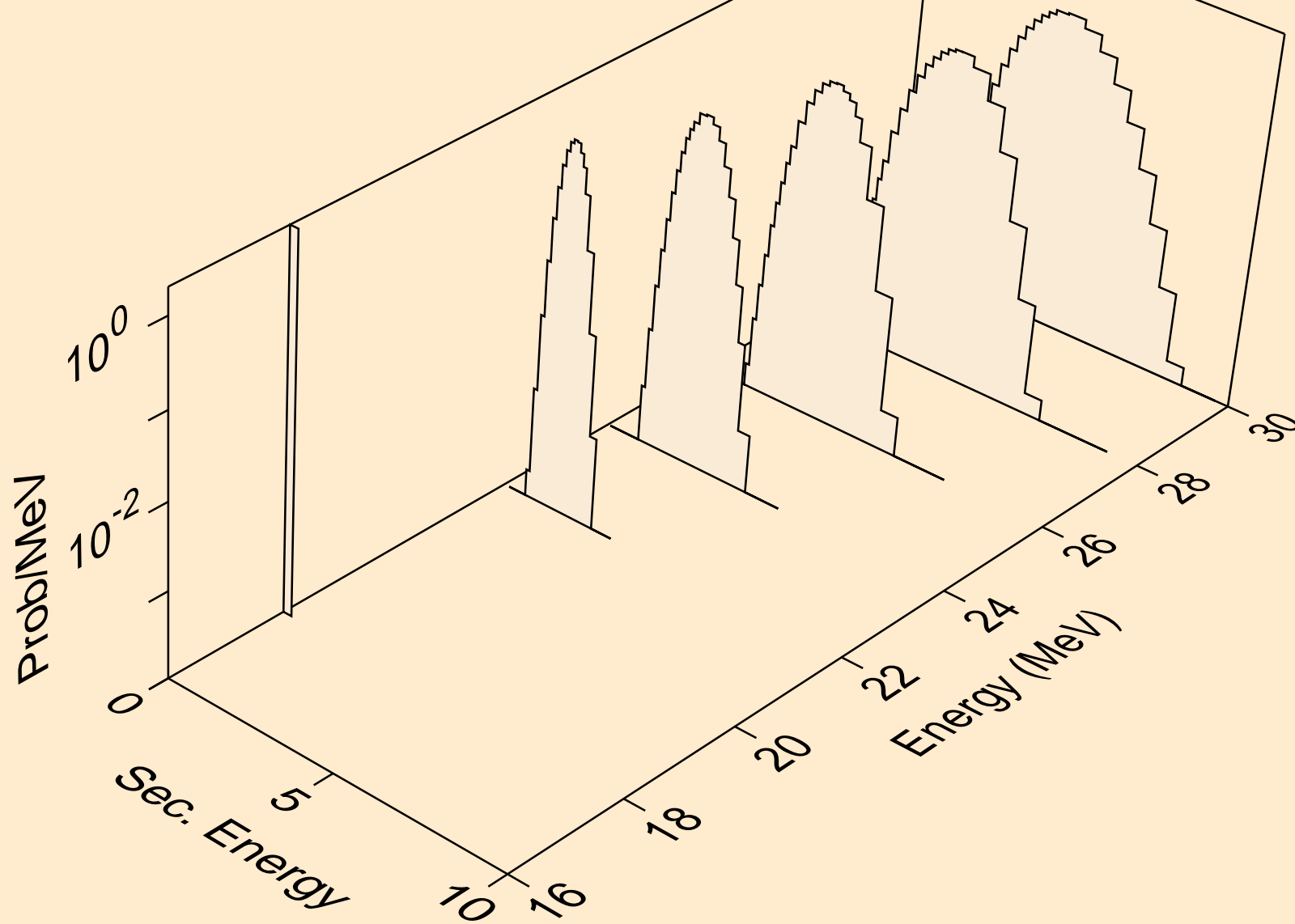


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protons from (n,pd)

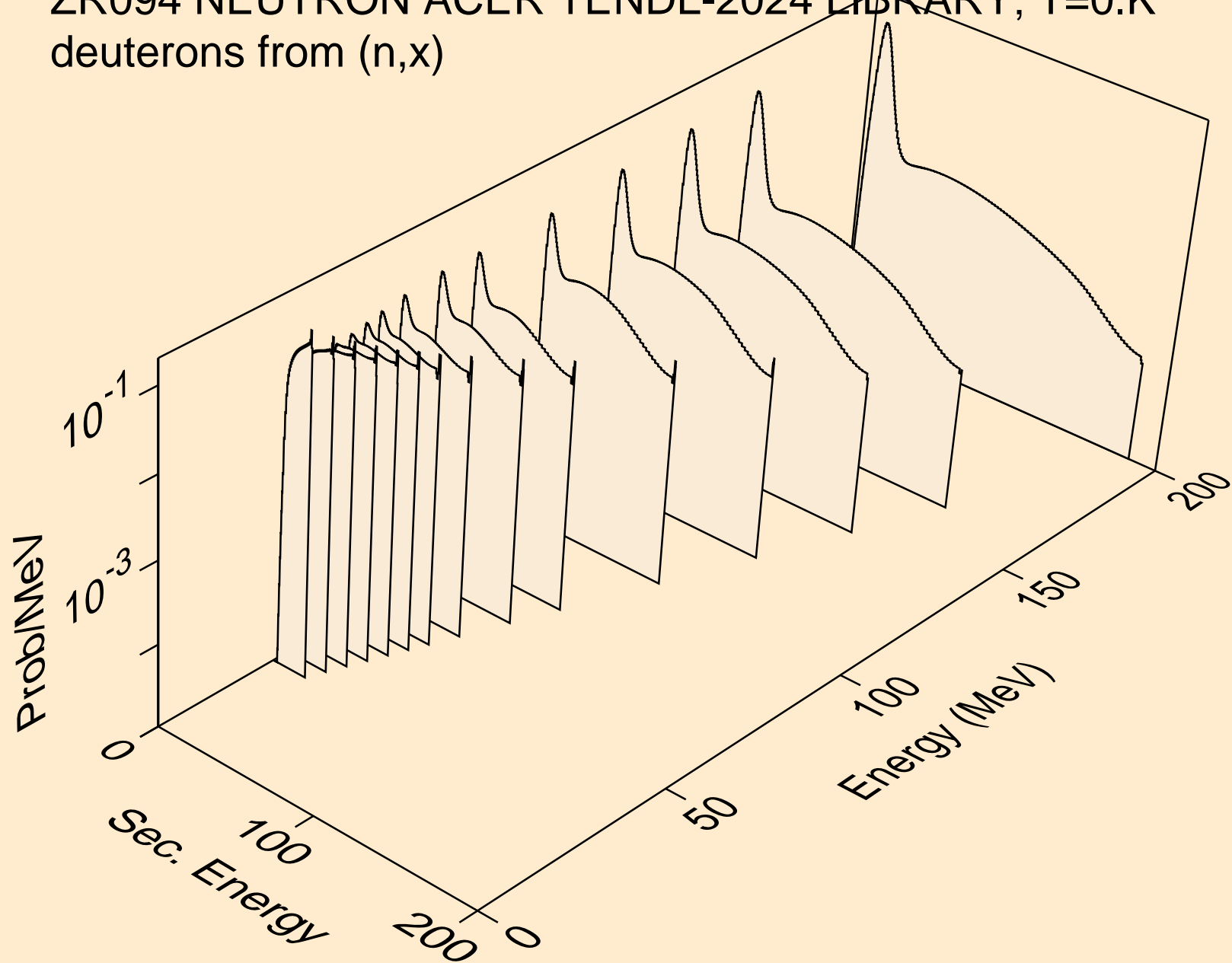




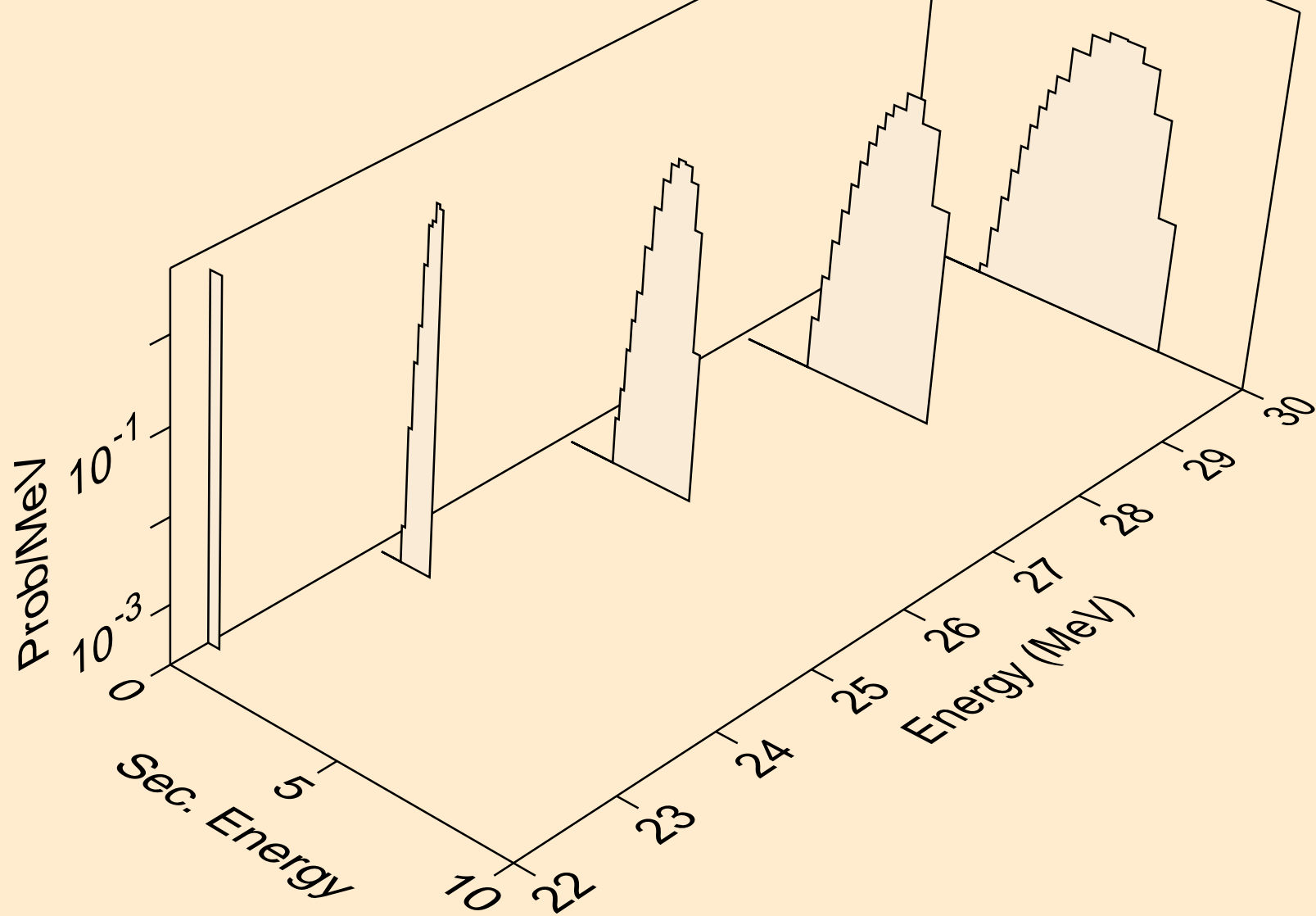
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protons from (n,pt)



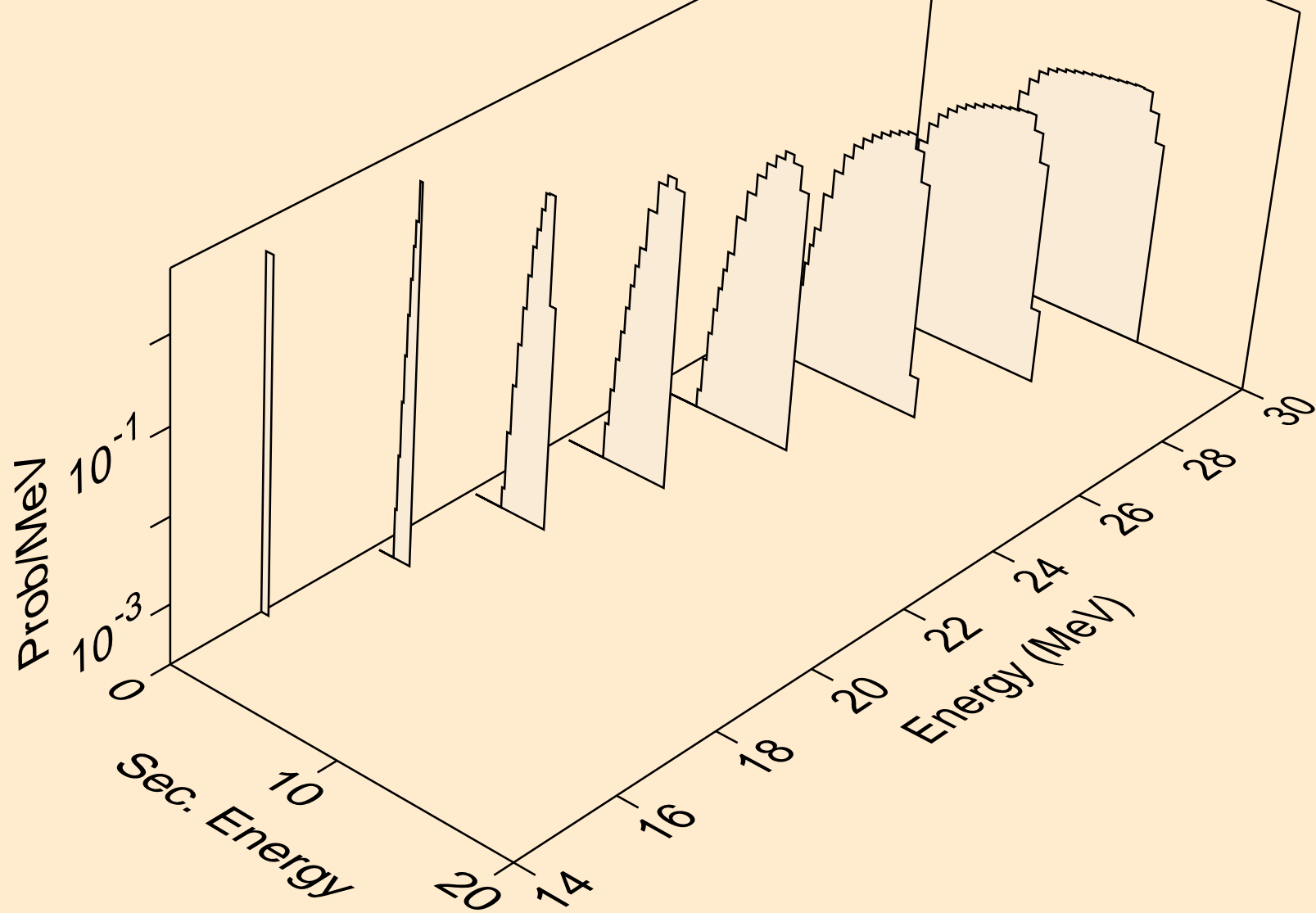
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deuterons from (n,x)



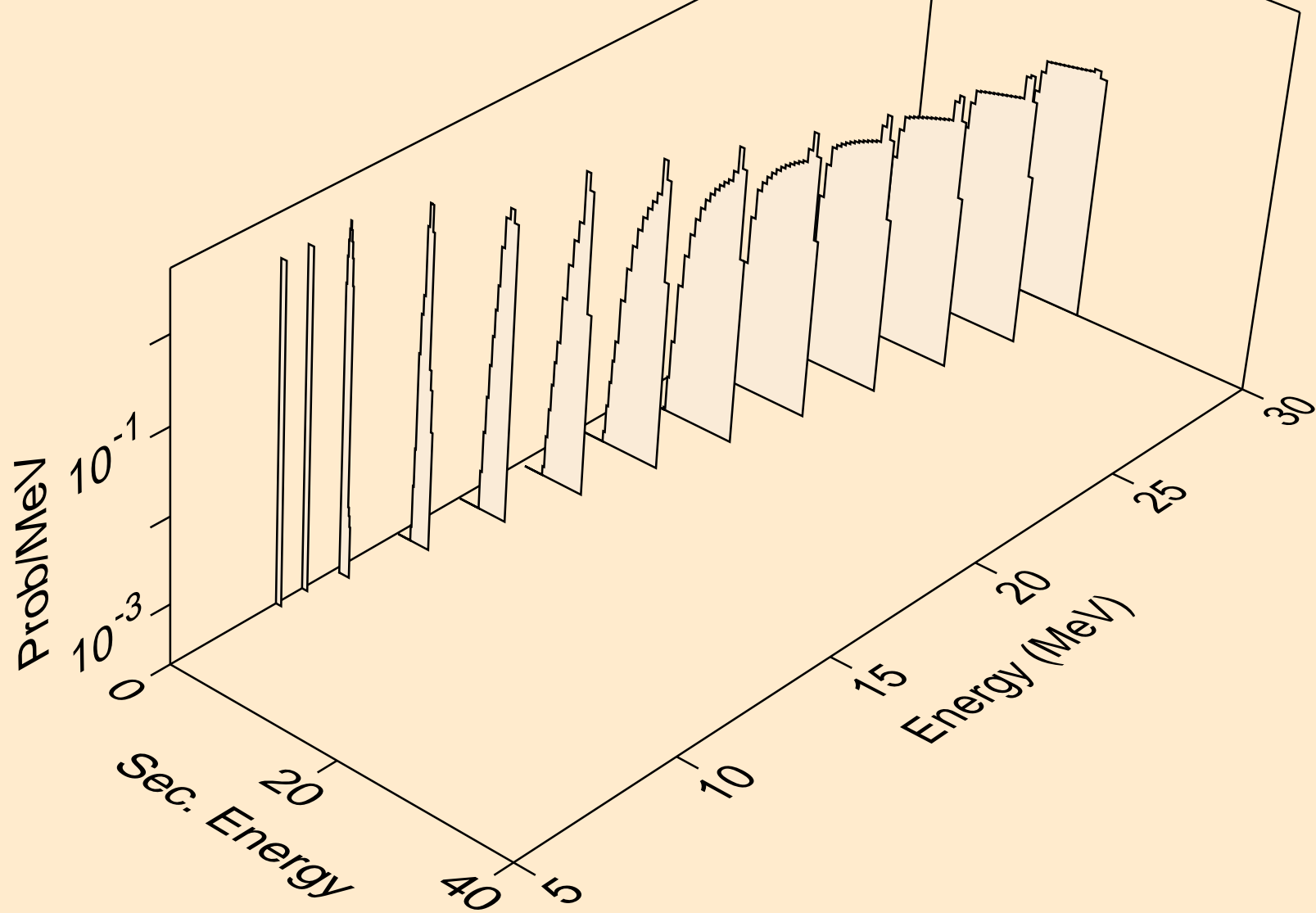
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deuterons from (n,2nd)



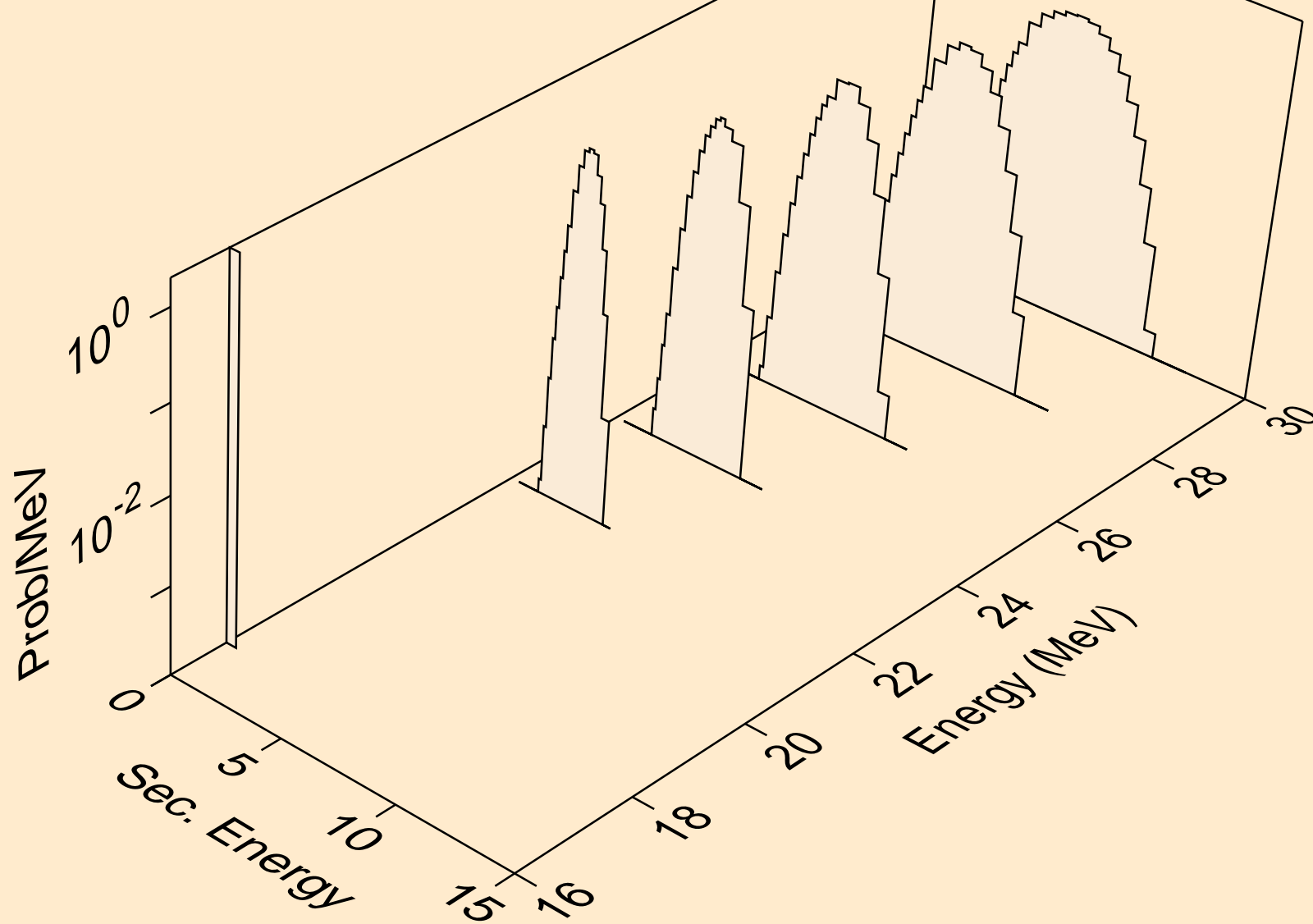
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deuterons from (n,n\*)d



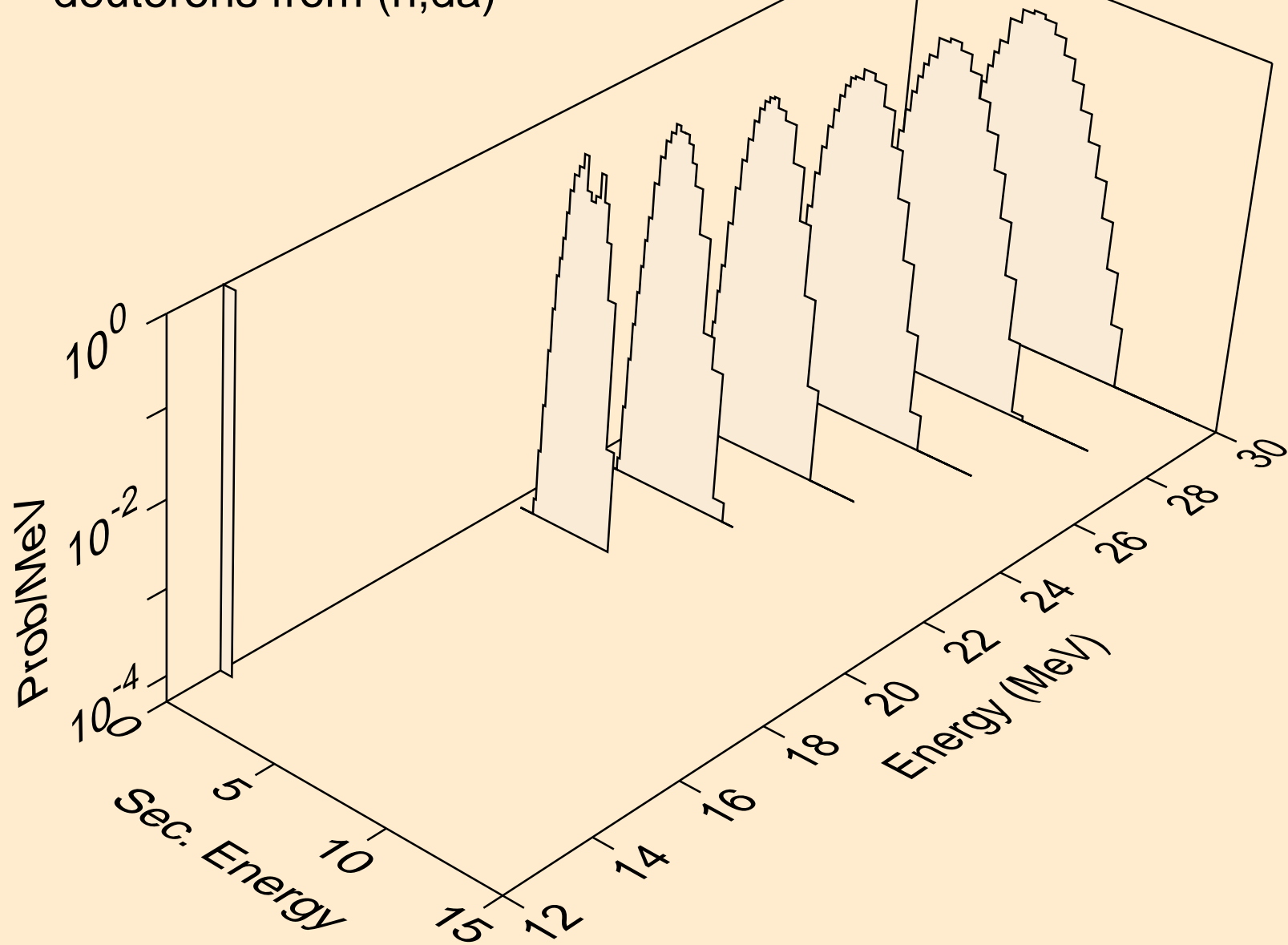
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deuterons from (n,d)



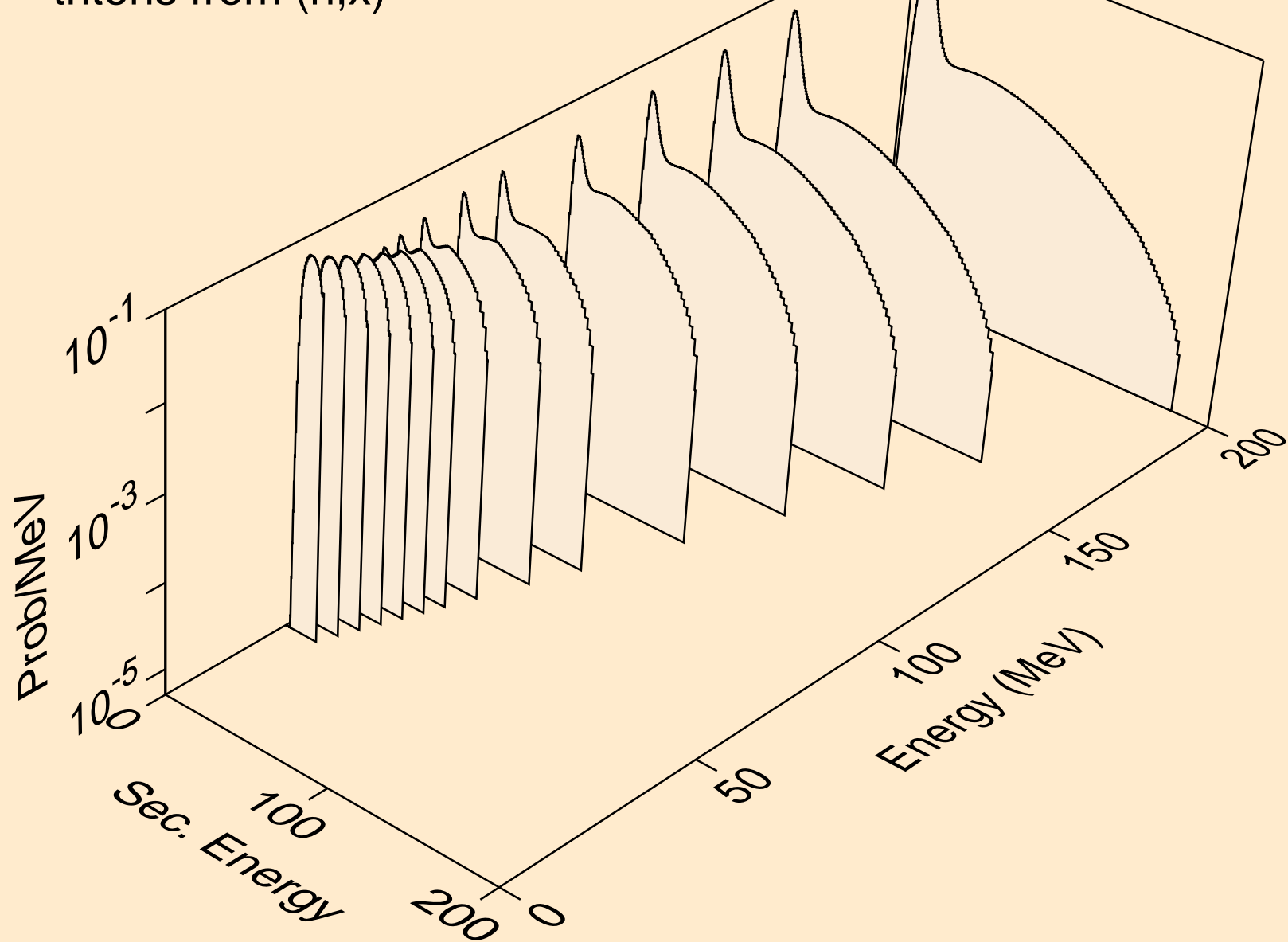
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deuterons from (n,pd)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,da)

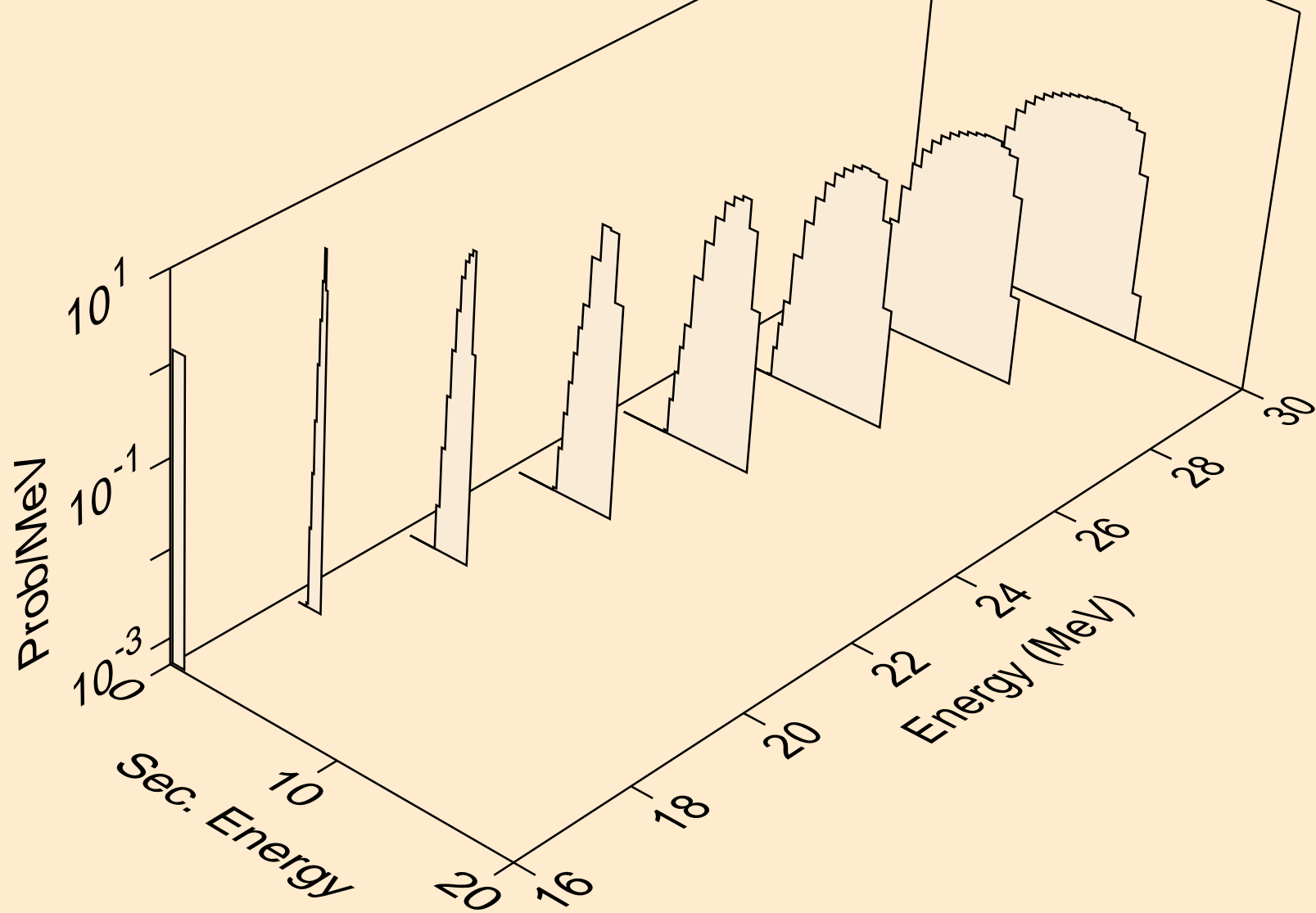


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tritons from (n,x)

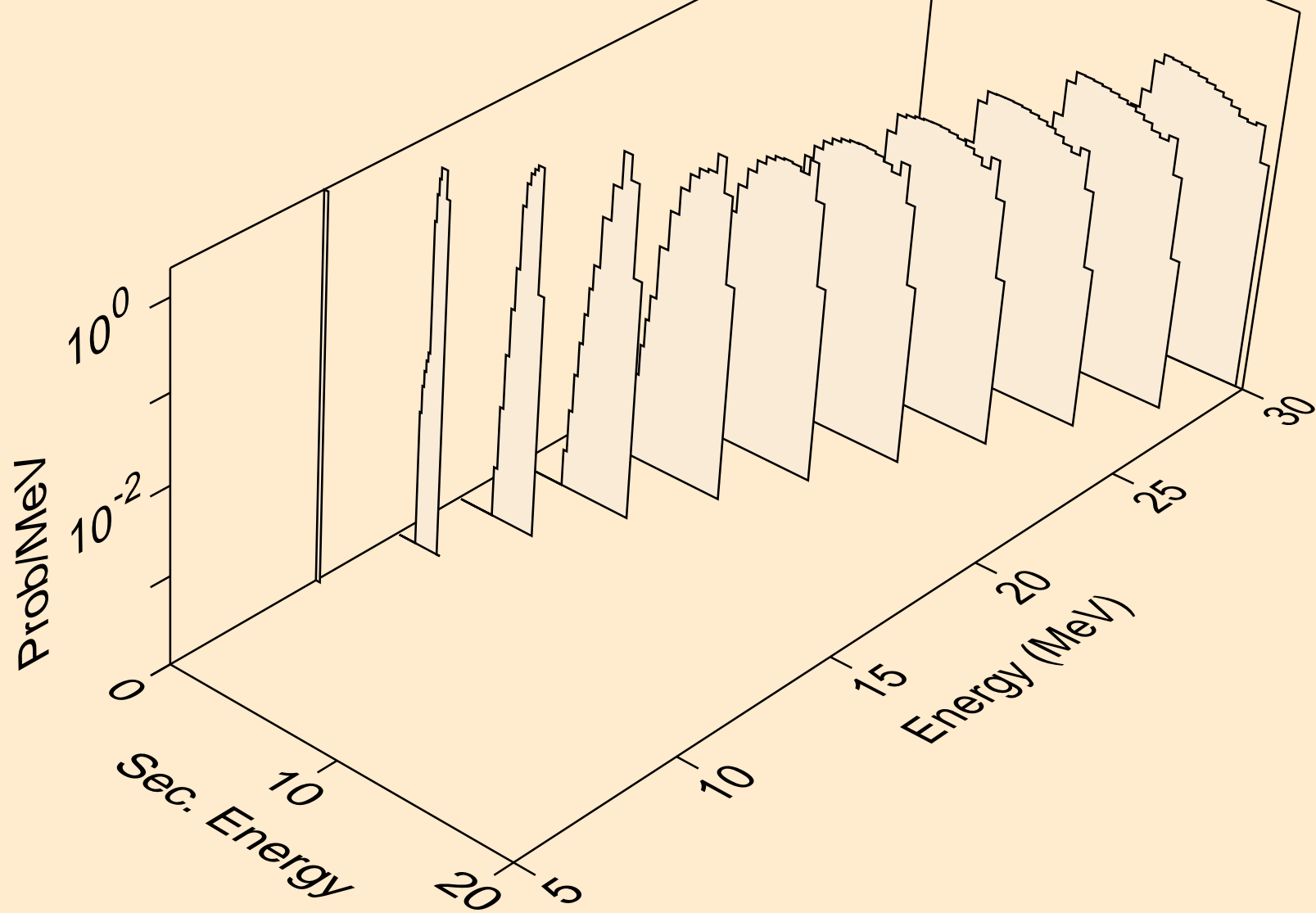




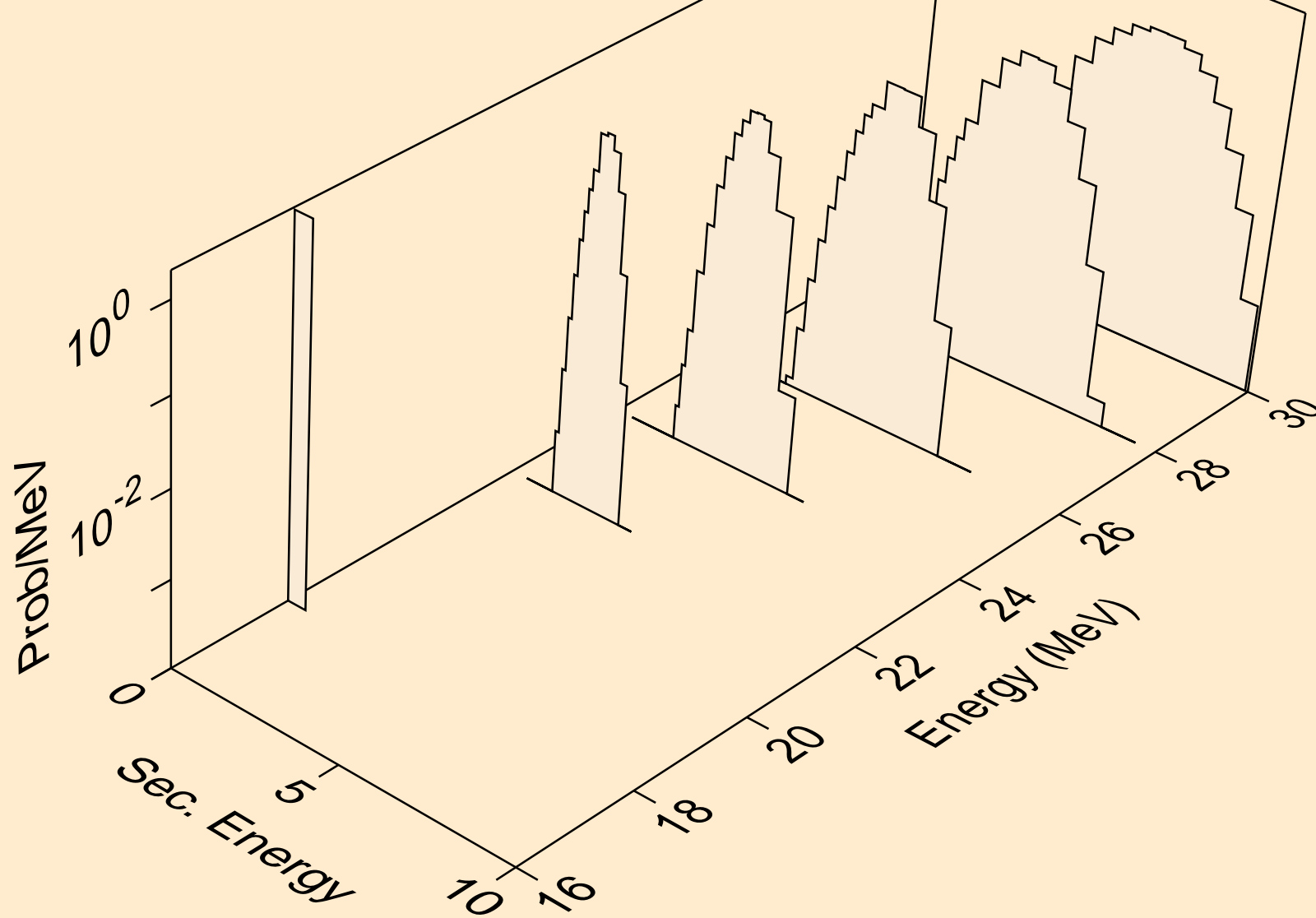
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tritons from (n,n\*)t



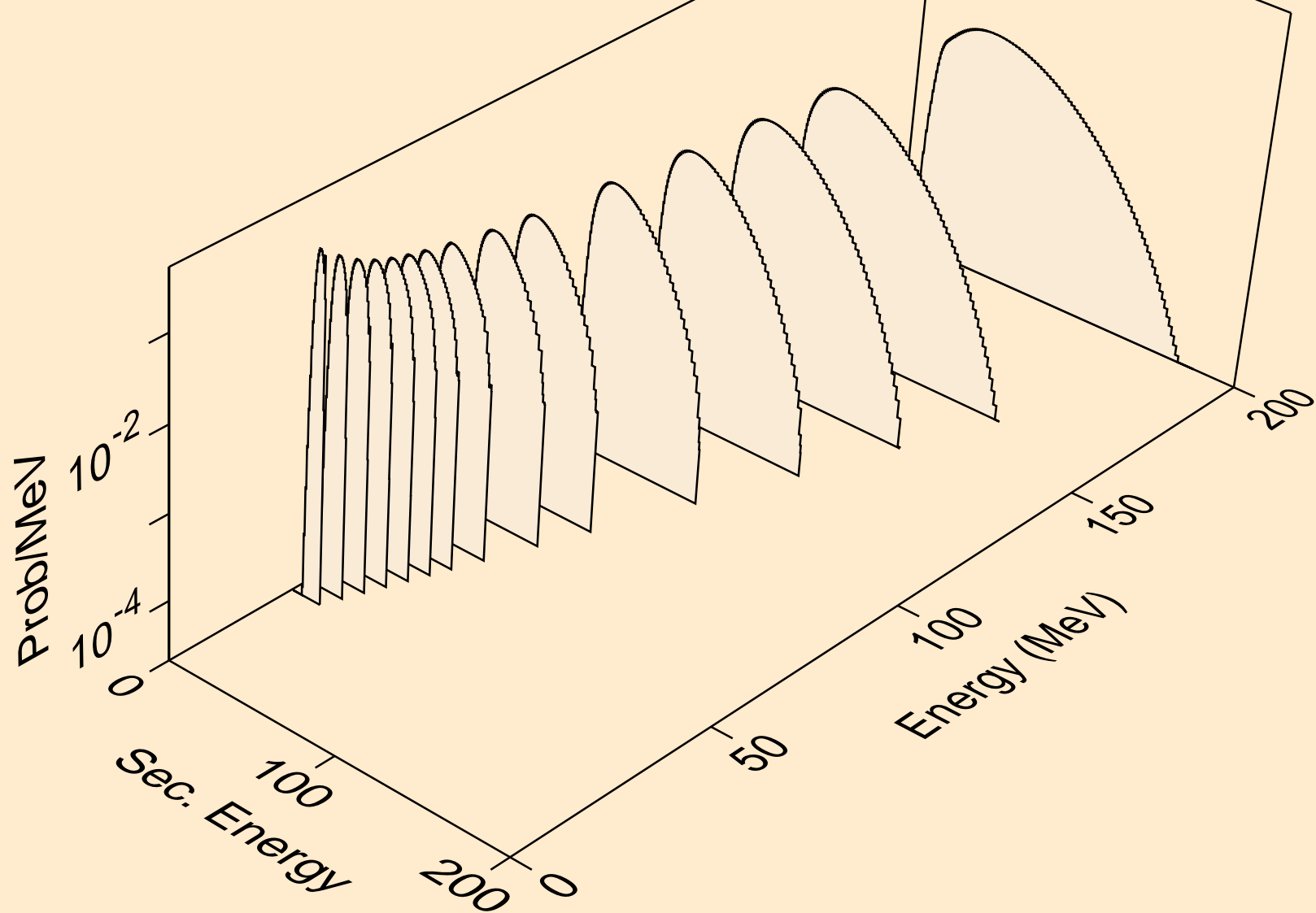
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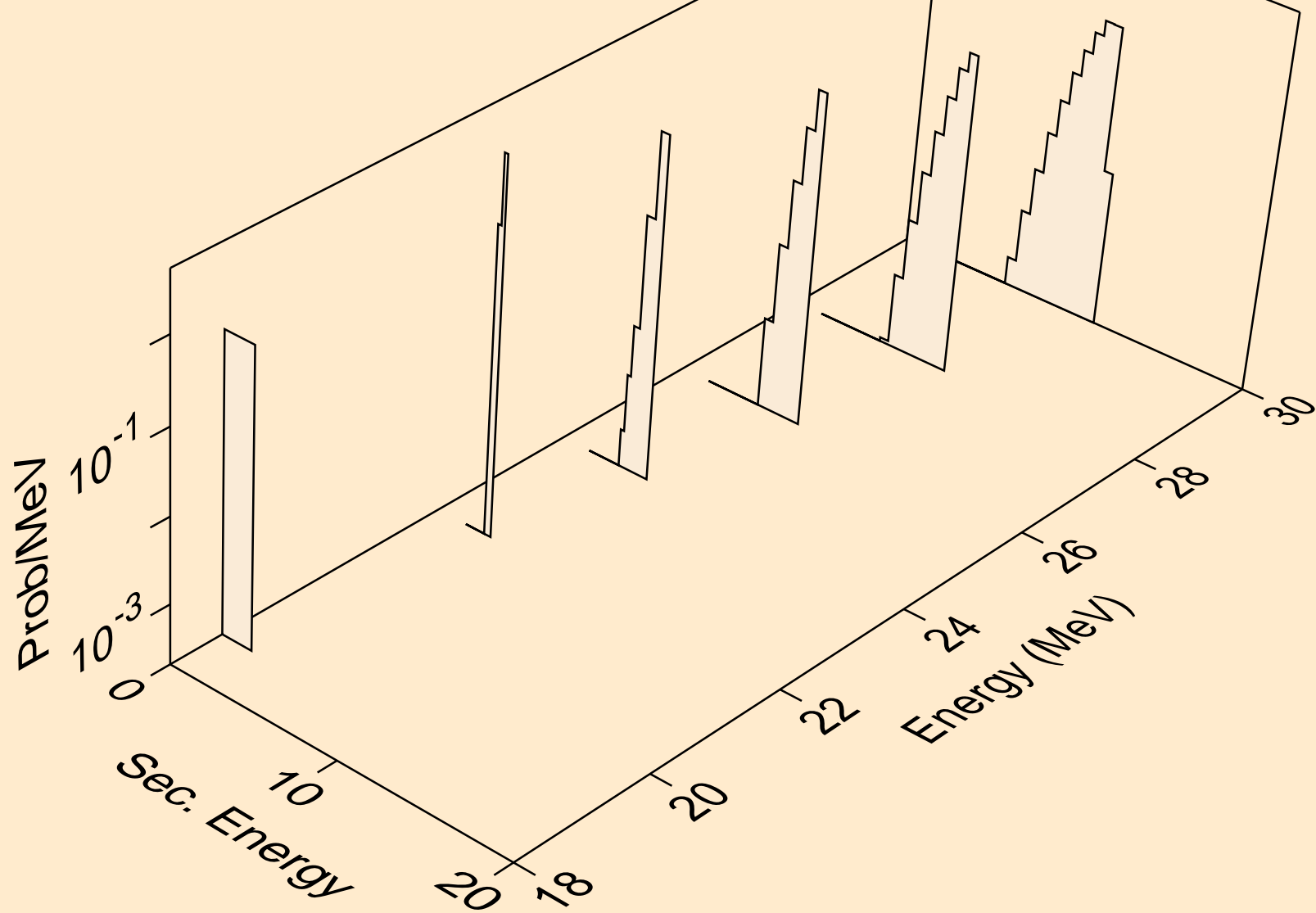
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tritons from (n,pt)



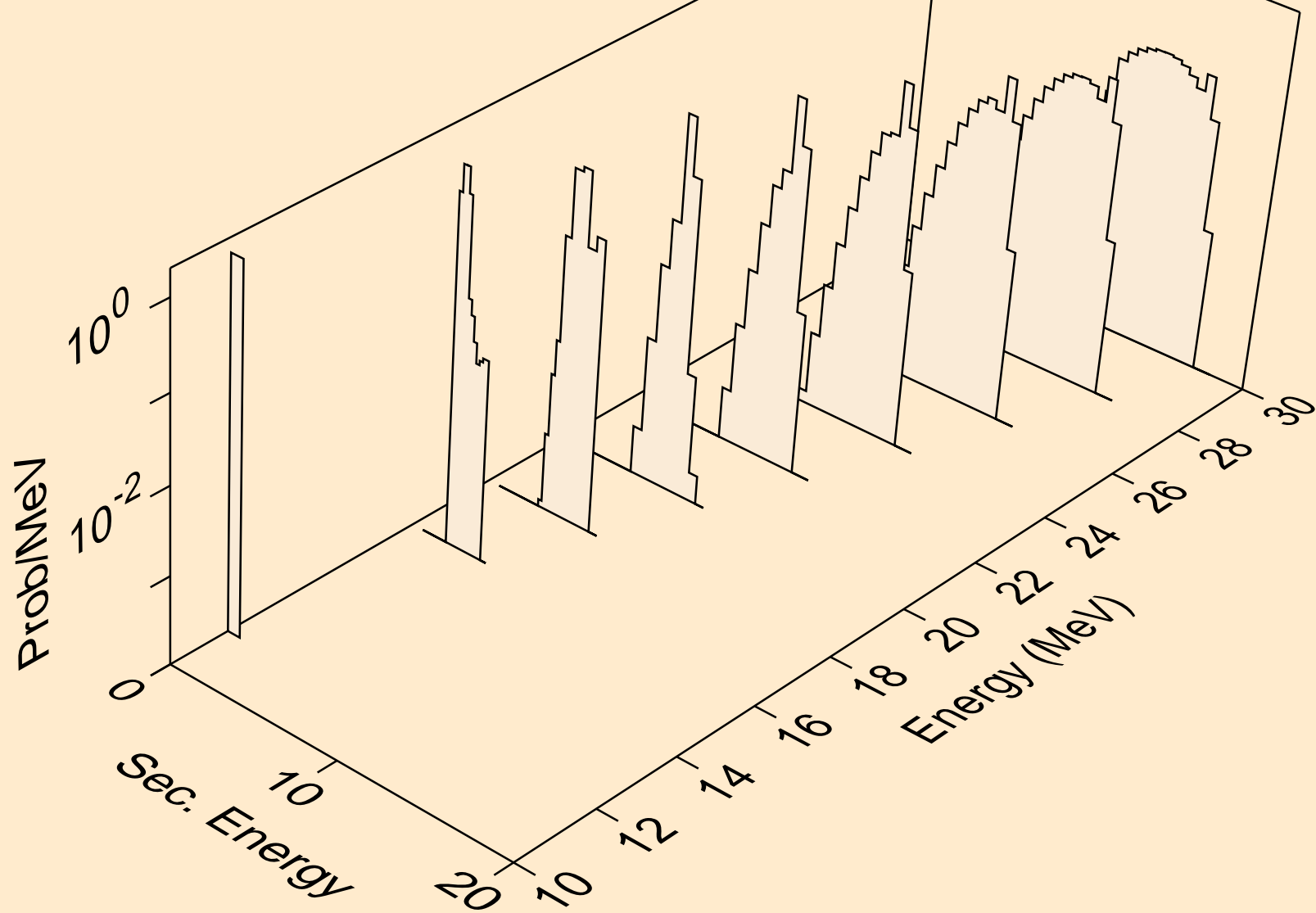
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he3s from (n,x)



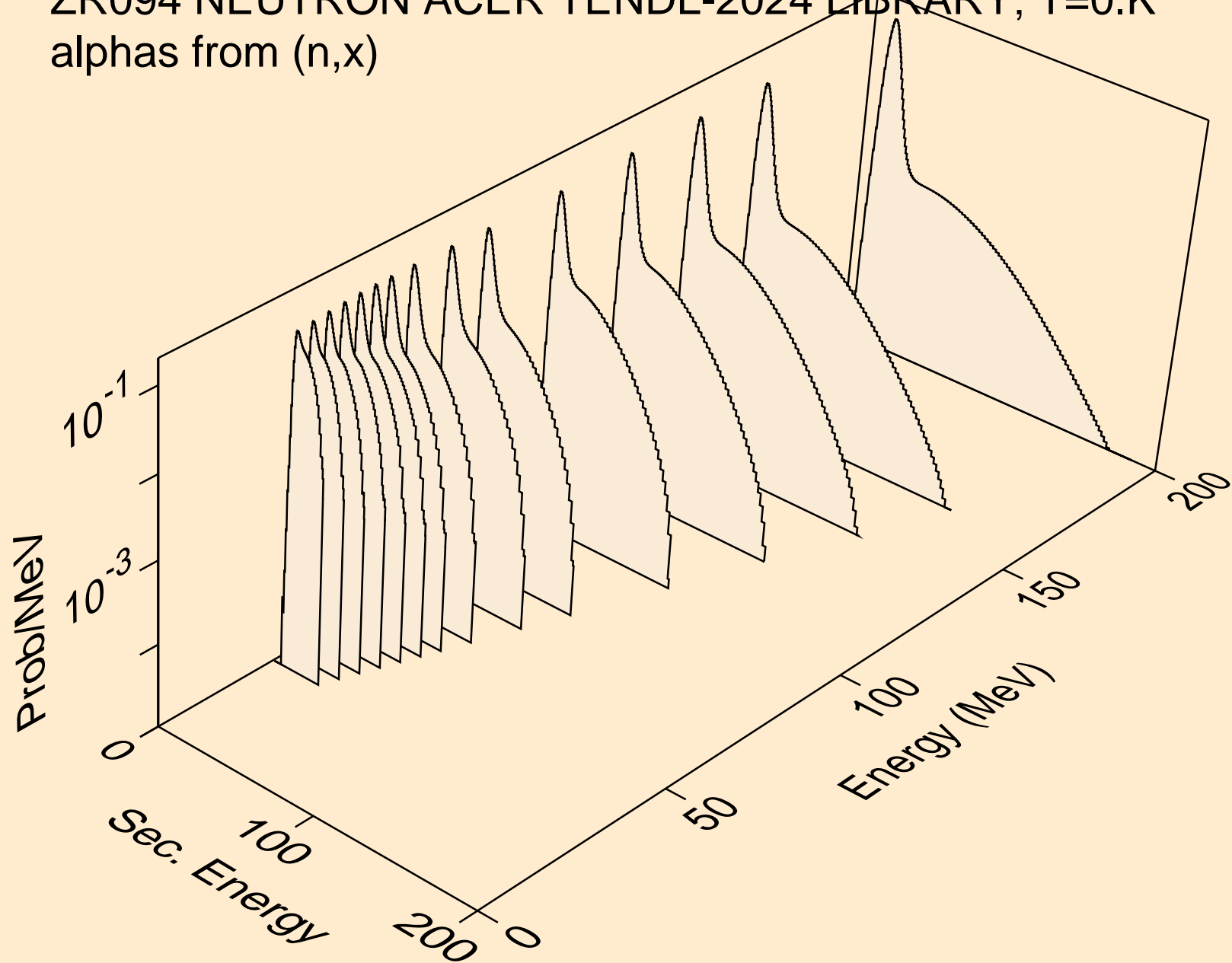
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,n\*)he3



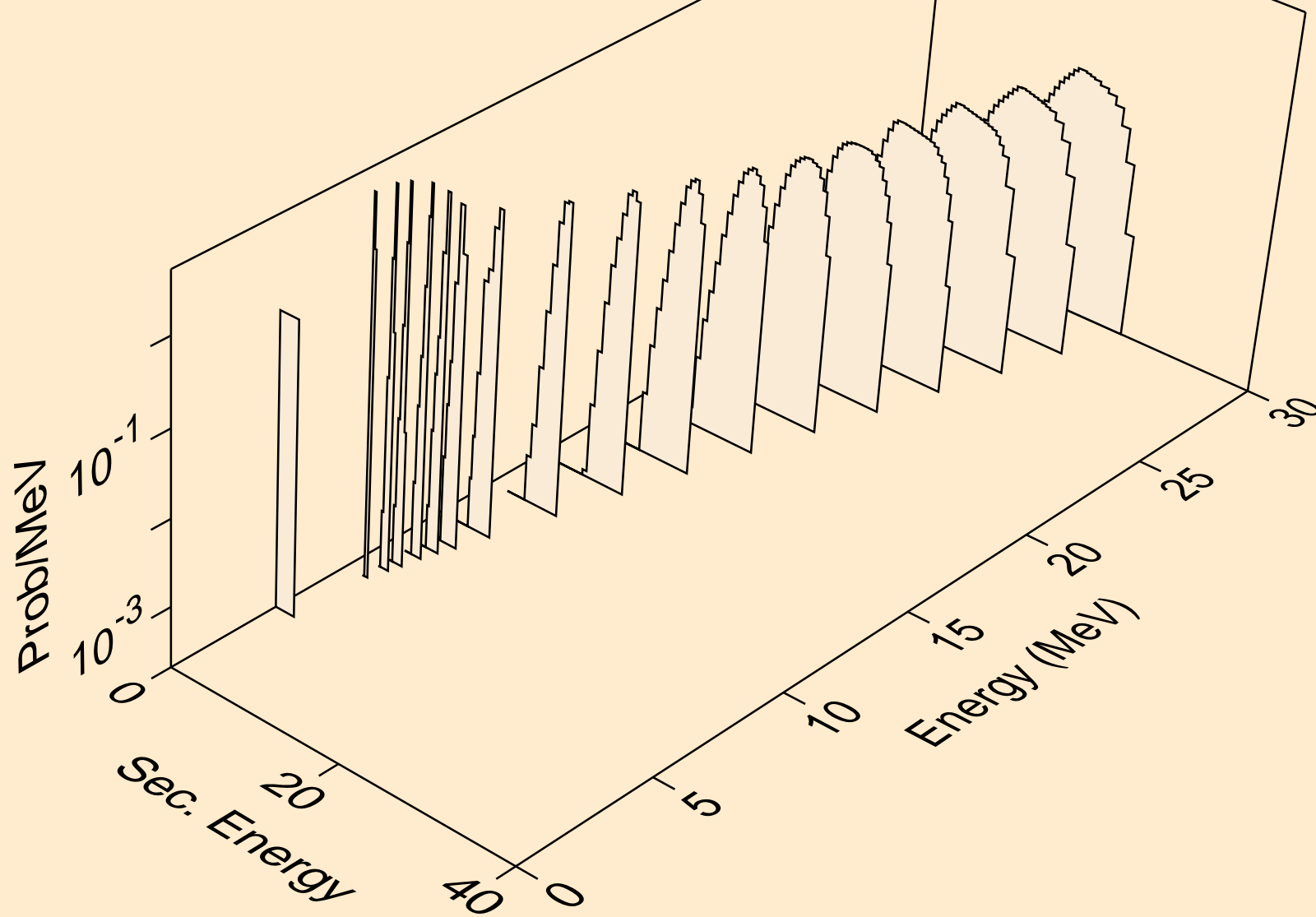
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (n,he3)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,x)

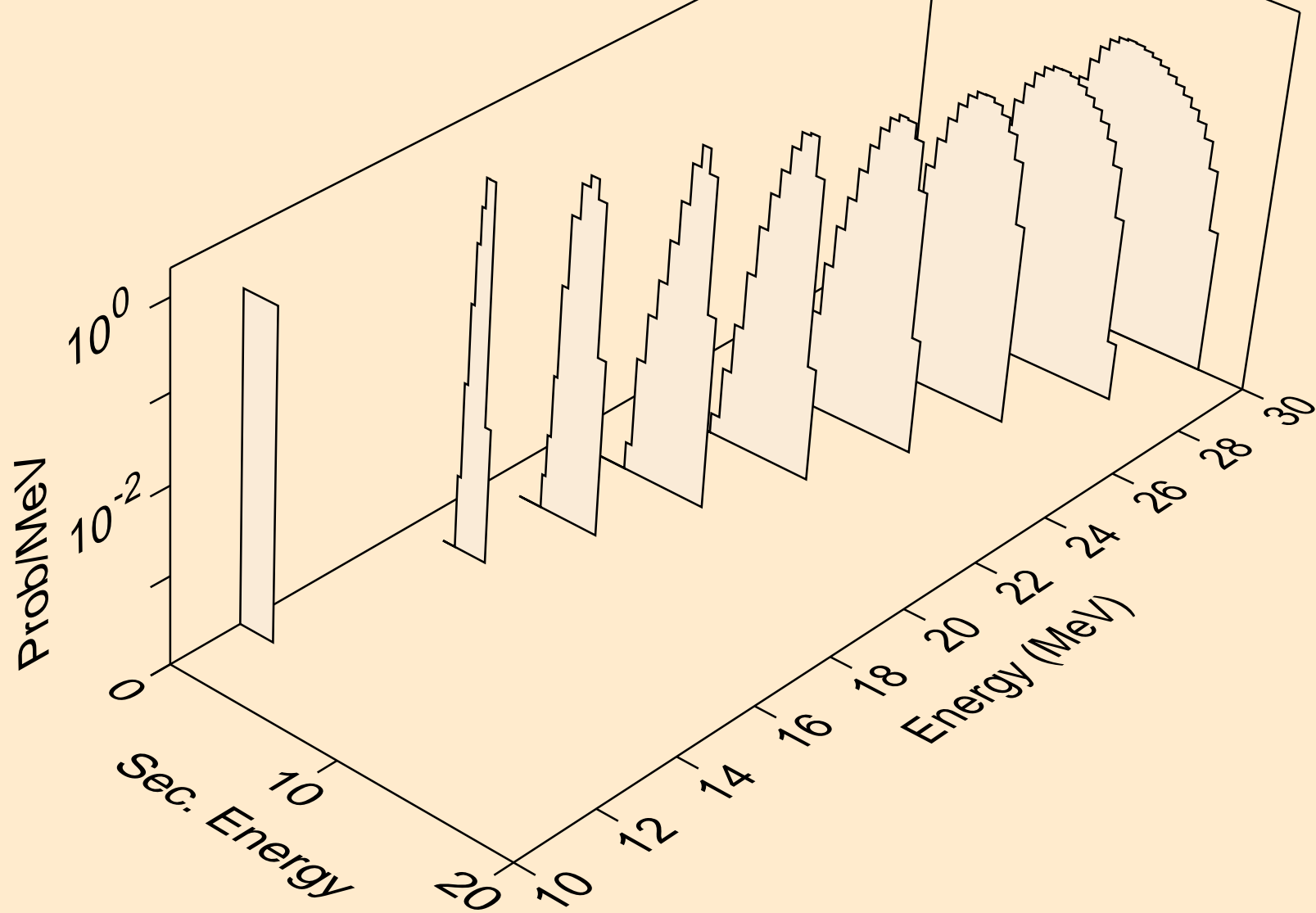


ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)a

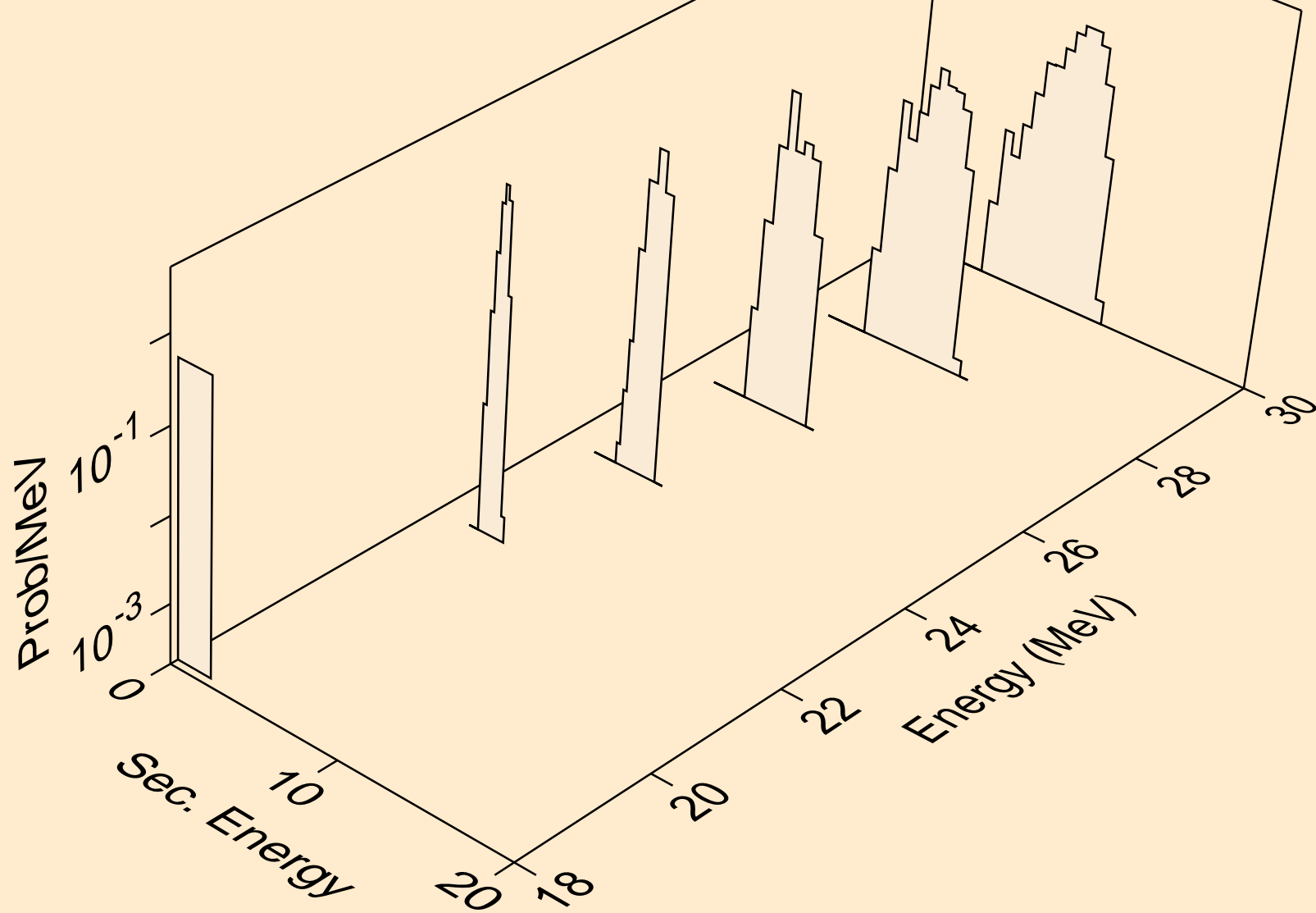




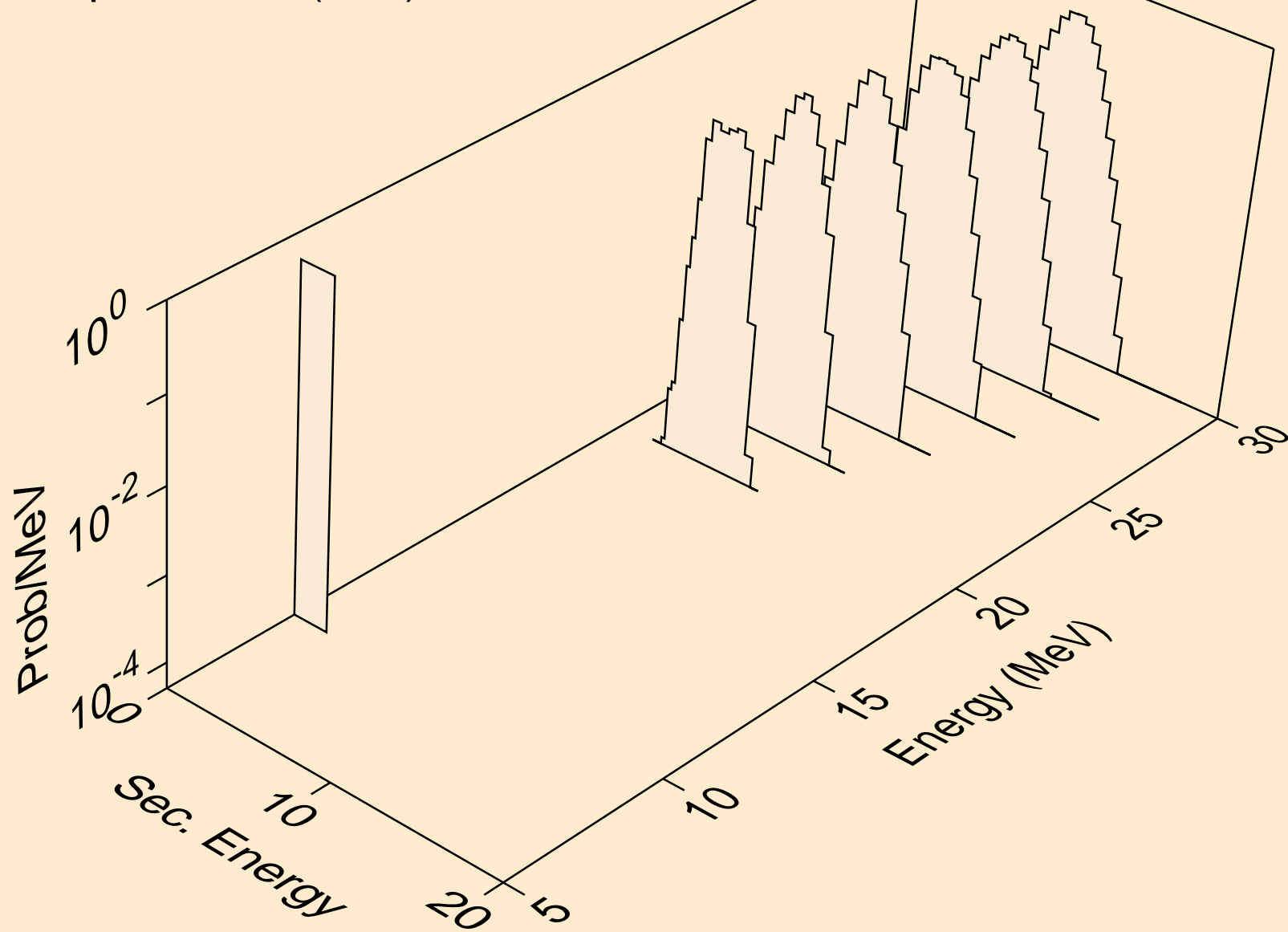
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



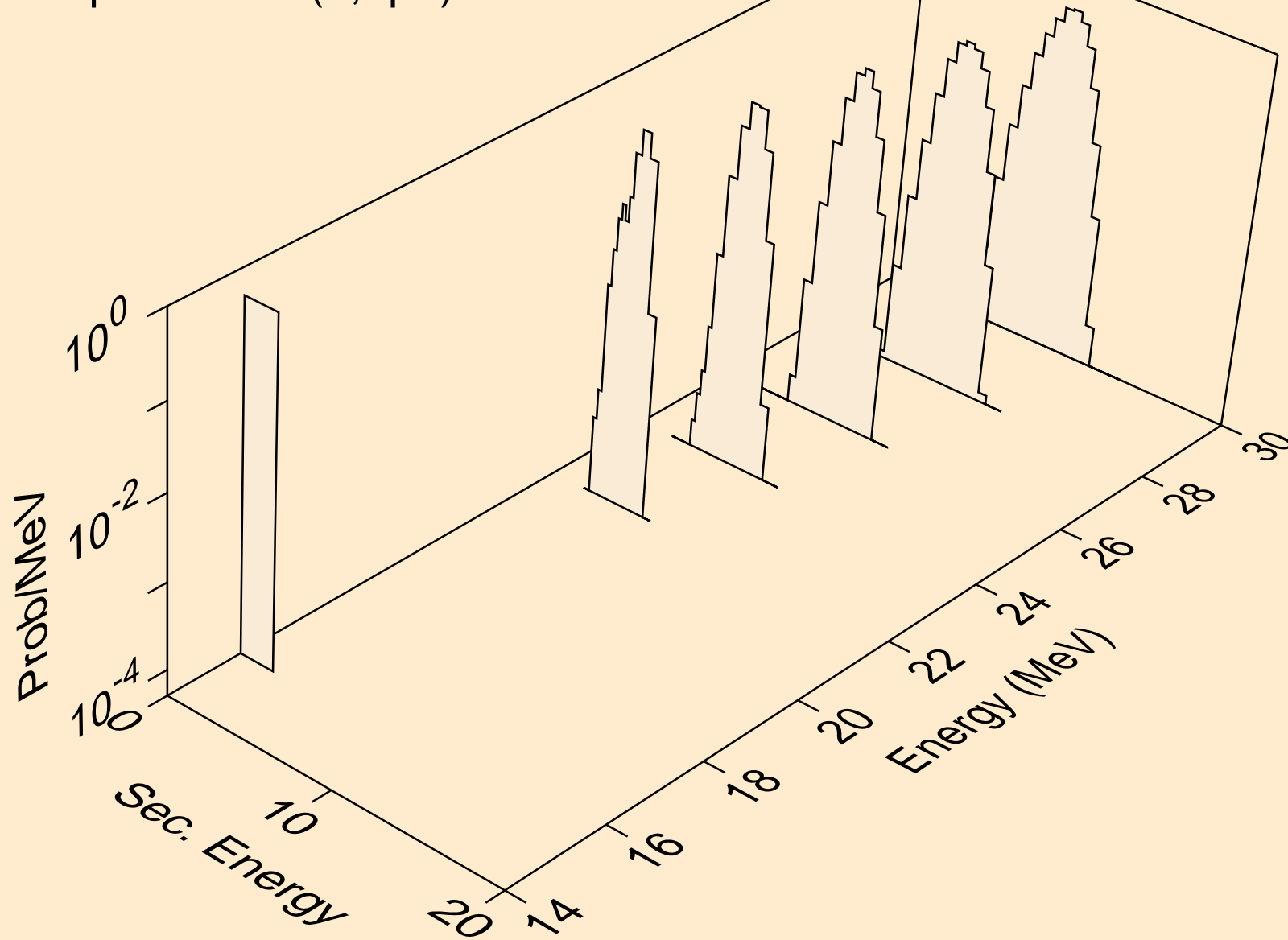
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,3n)a



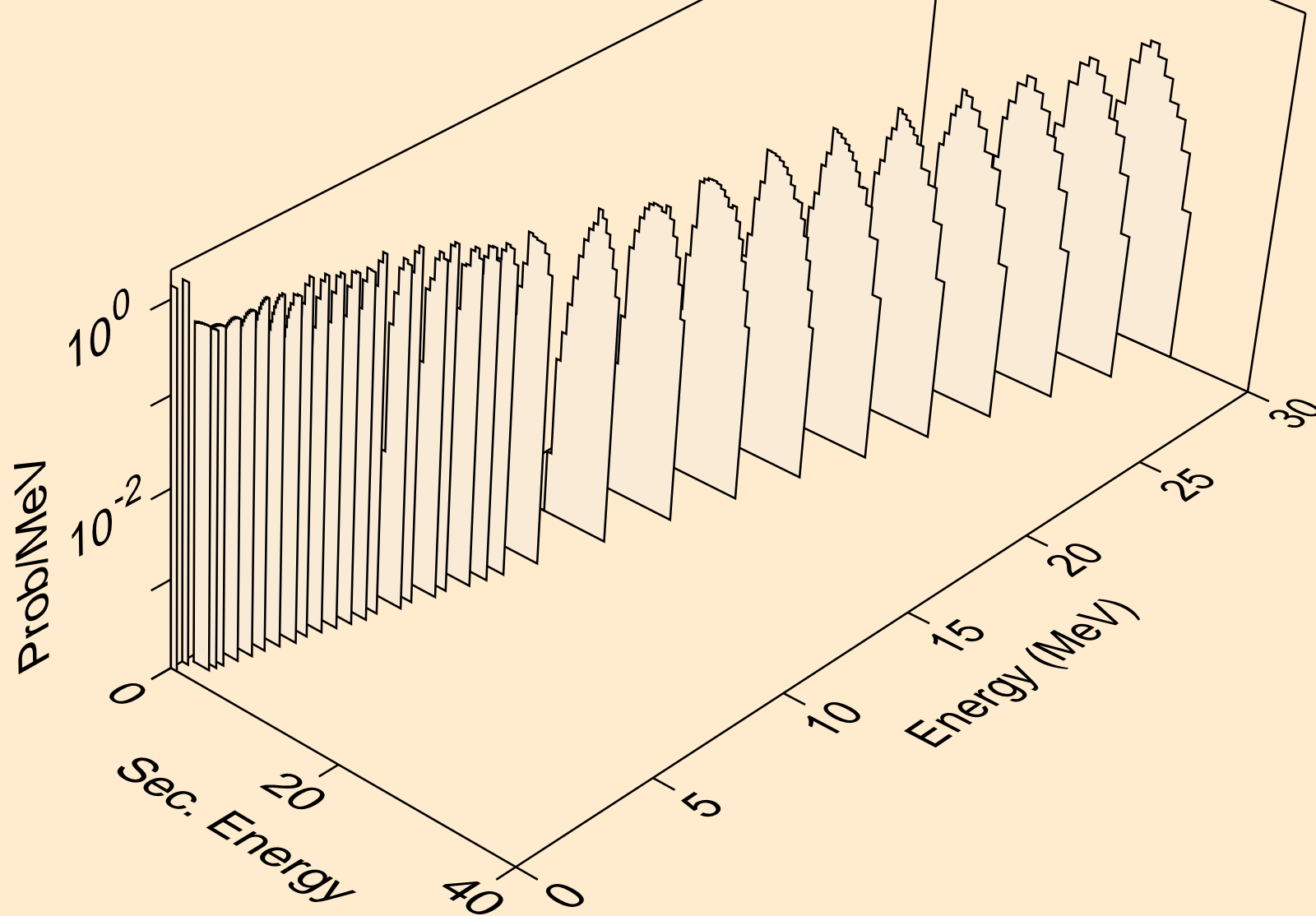
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a



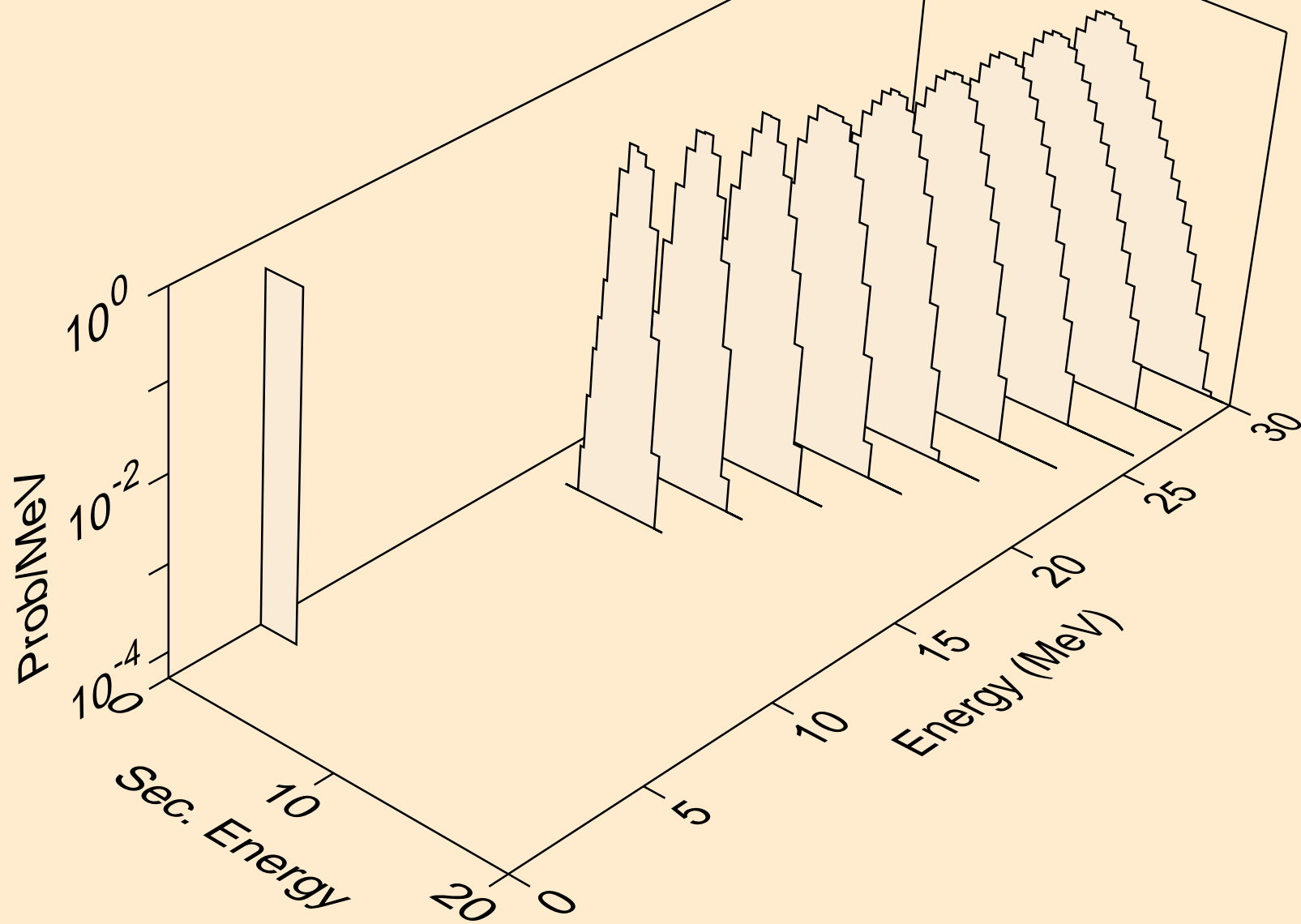
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,npa)



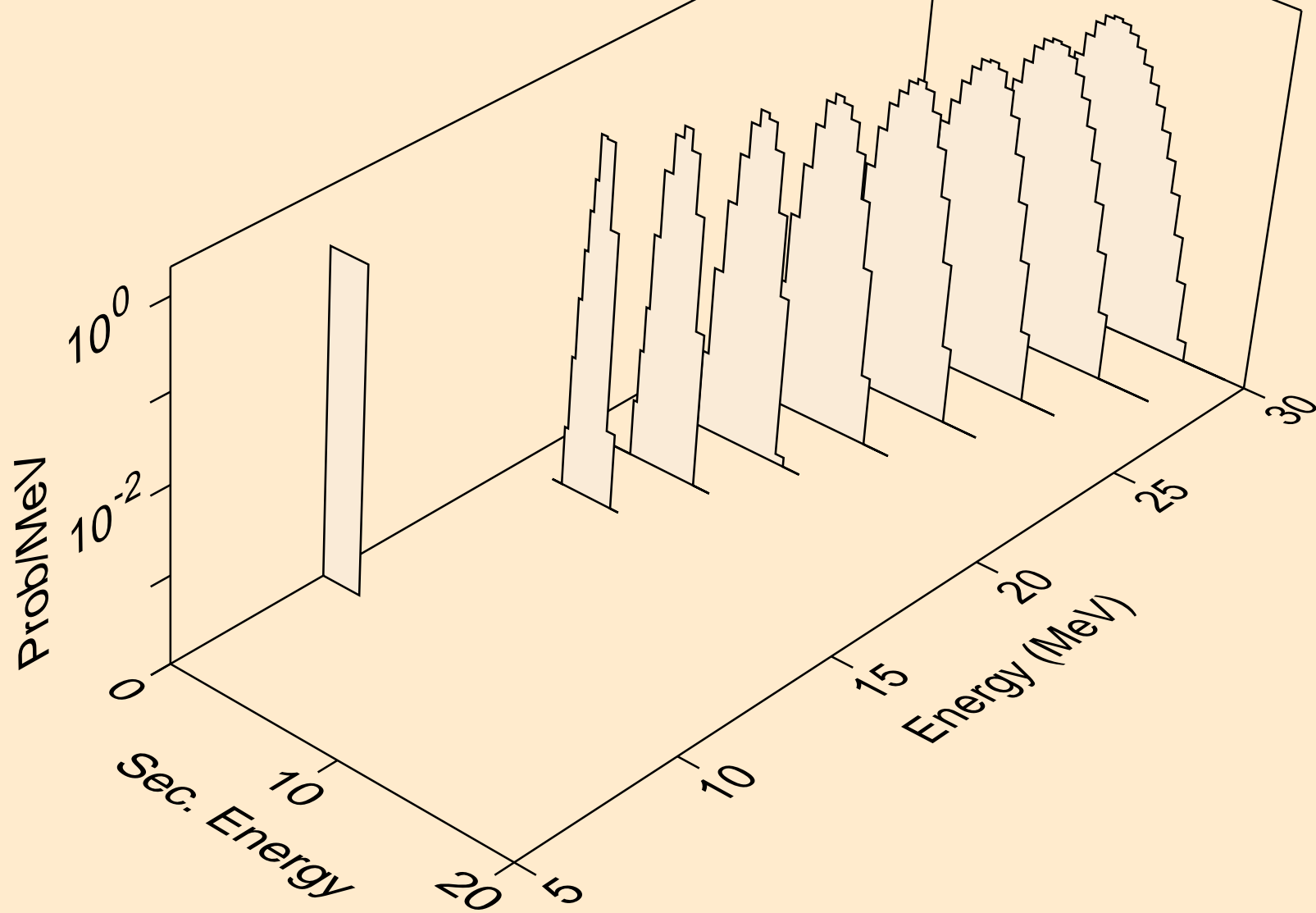
ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



ZR094 NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

