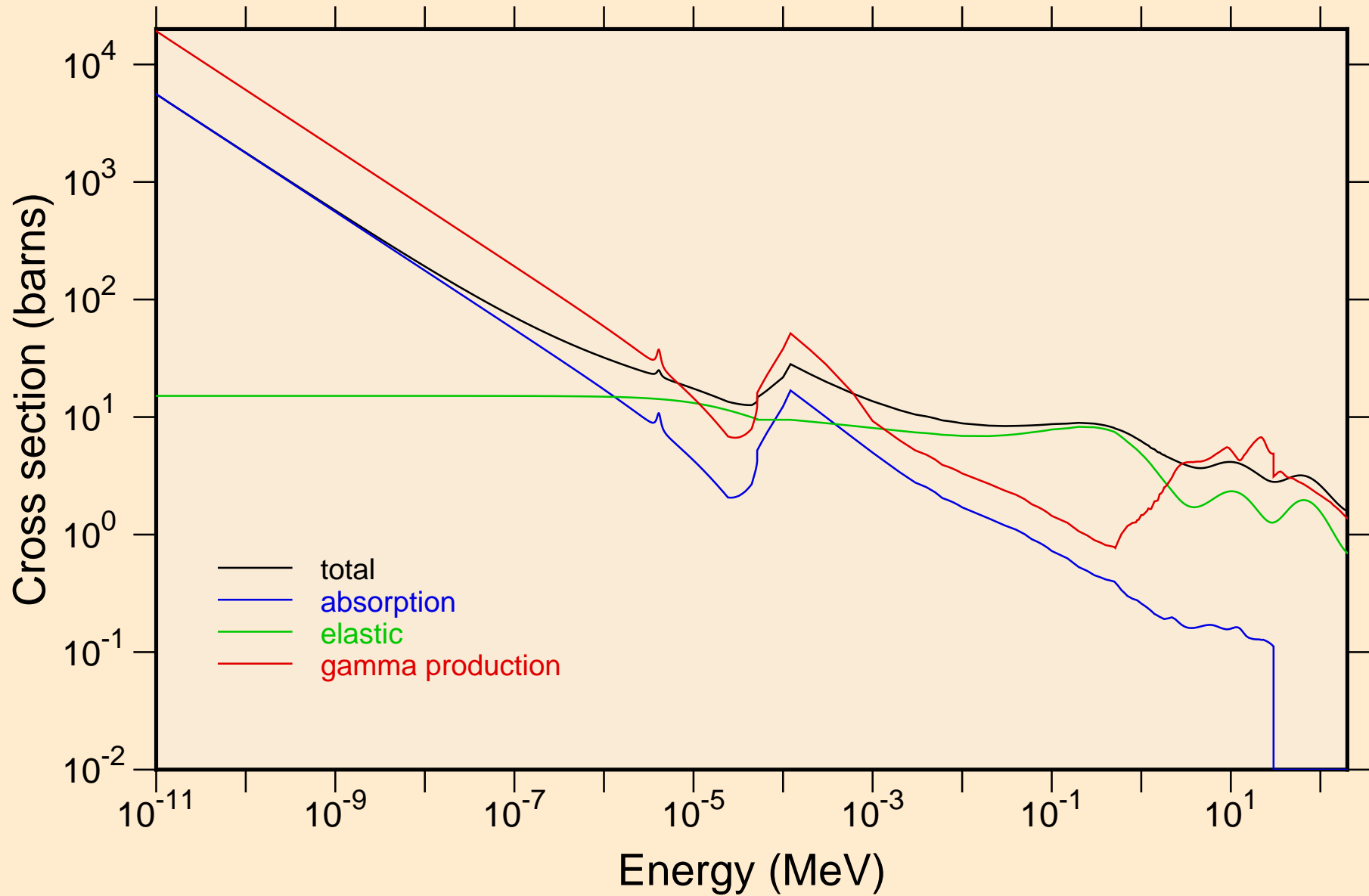
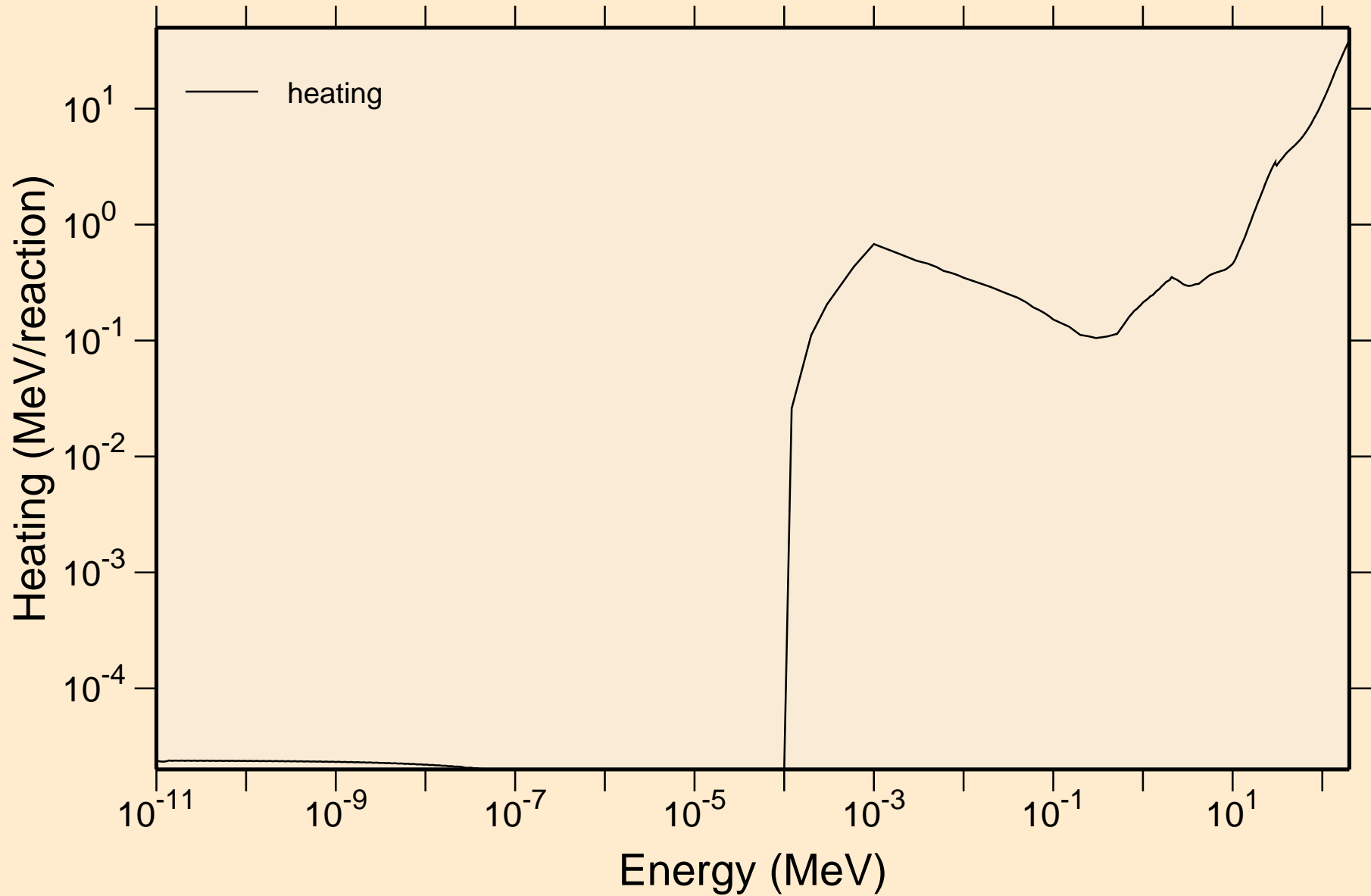


ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Principal cross sections



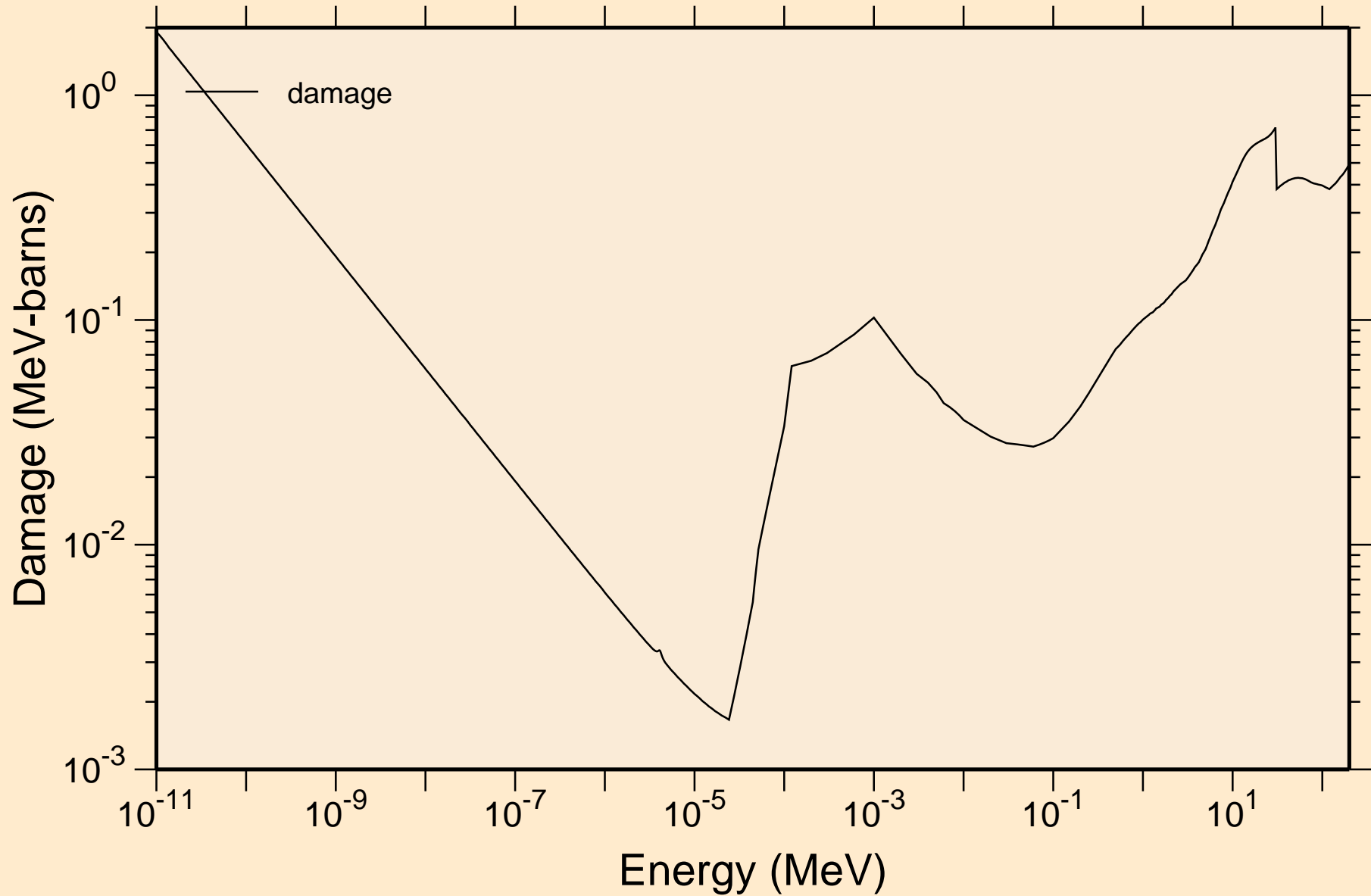
# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Heating



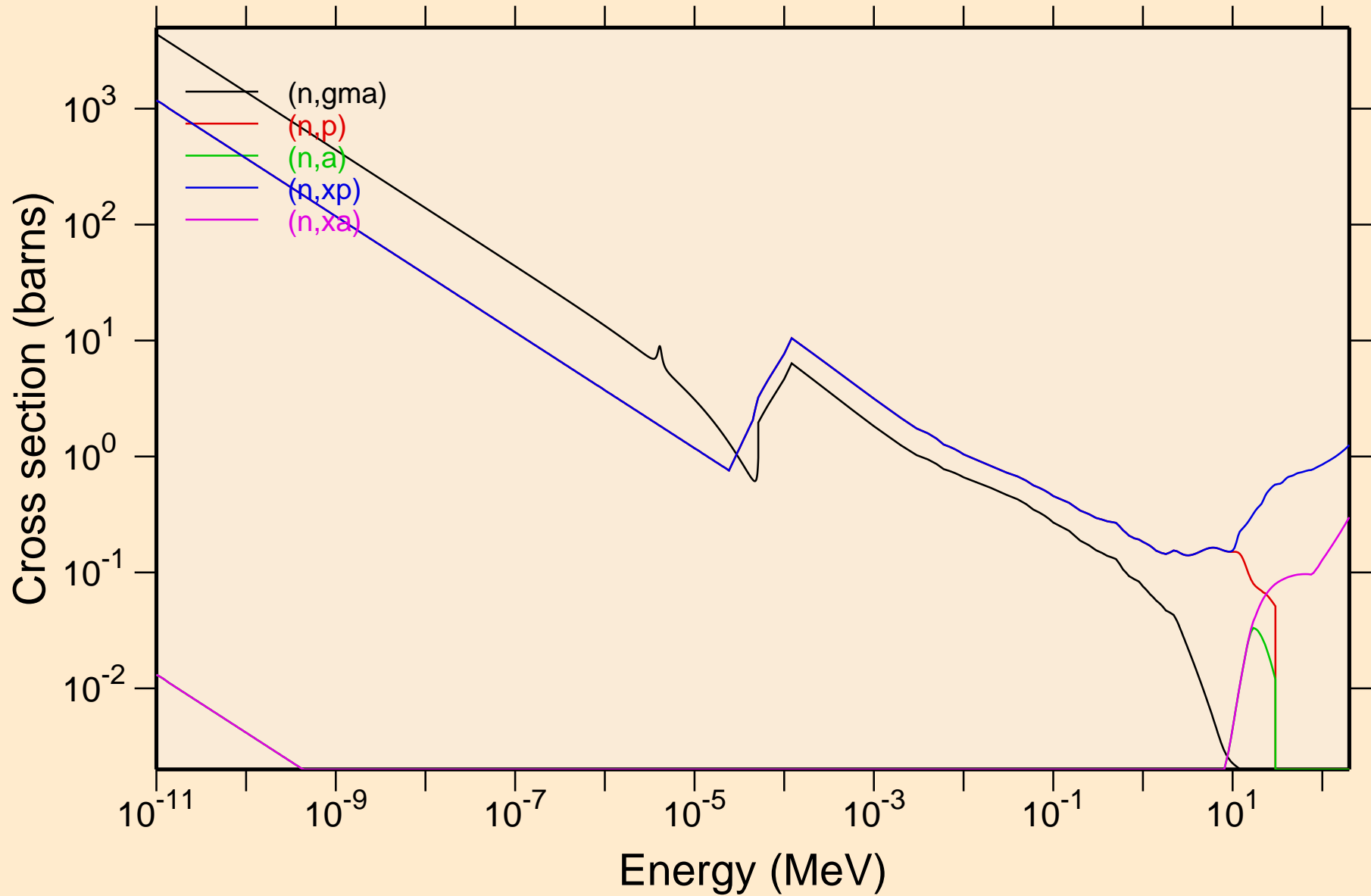
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## Damage



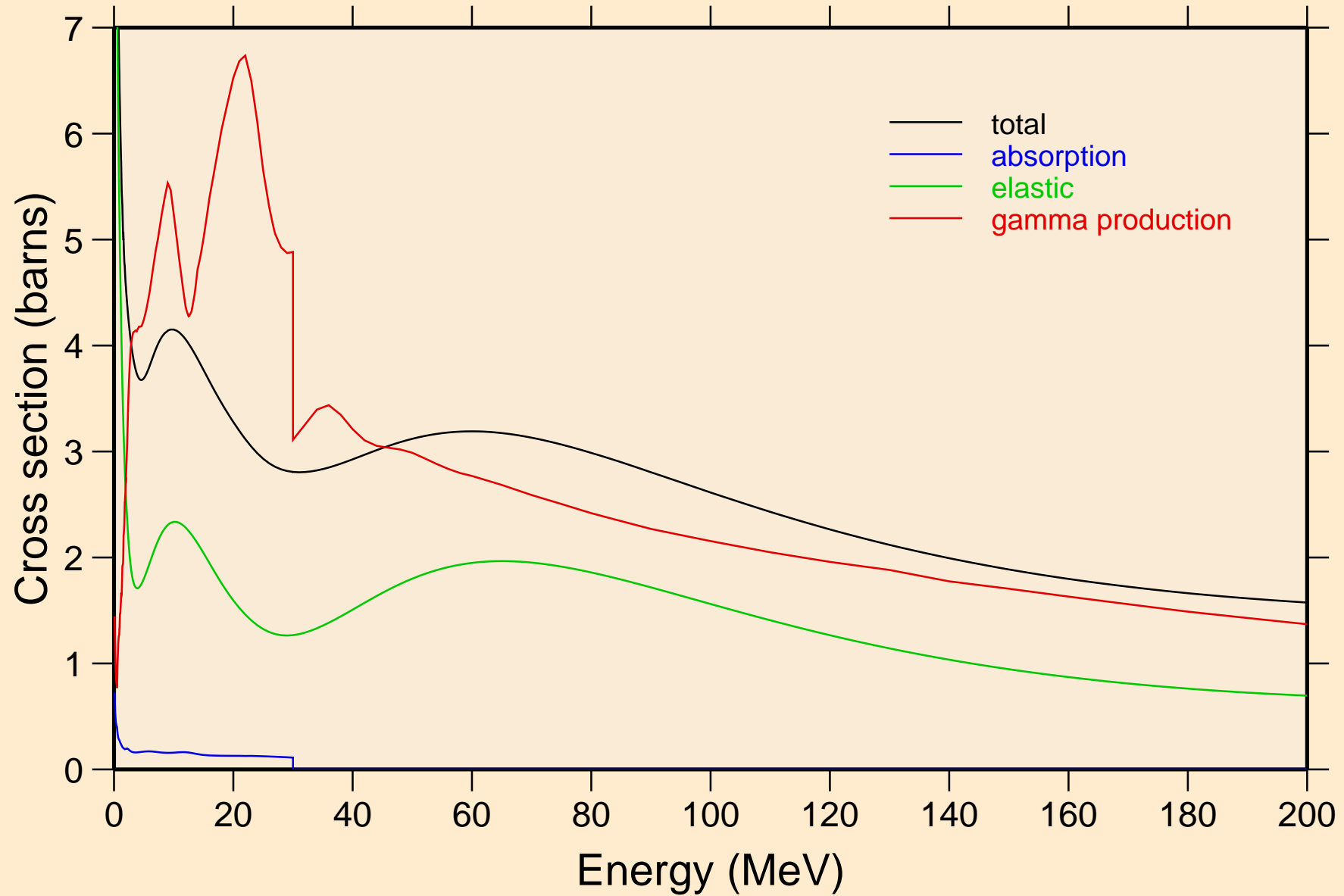
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## Non-threshold reactions



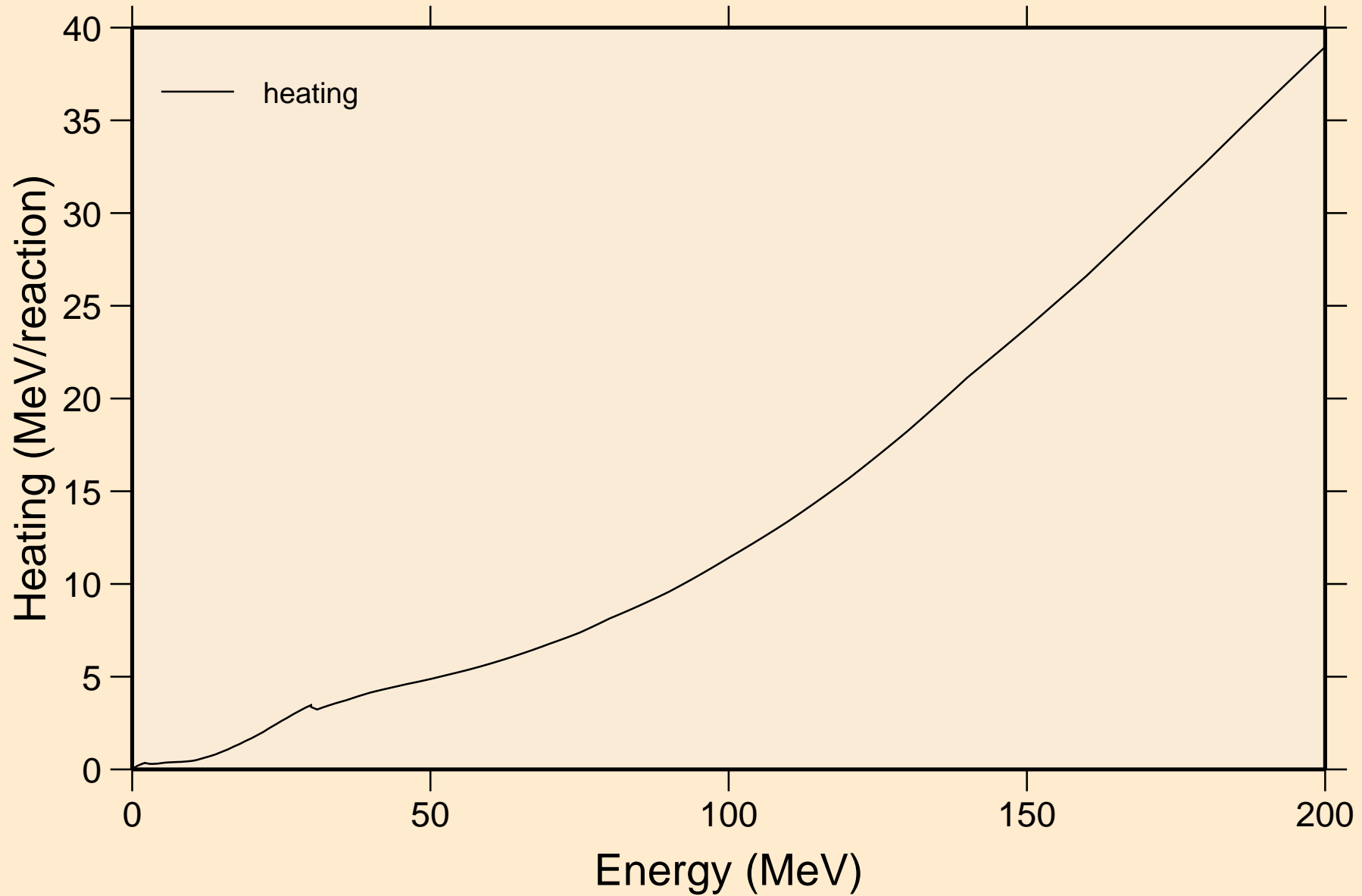
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## Principal cross sections



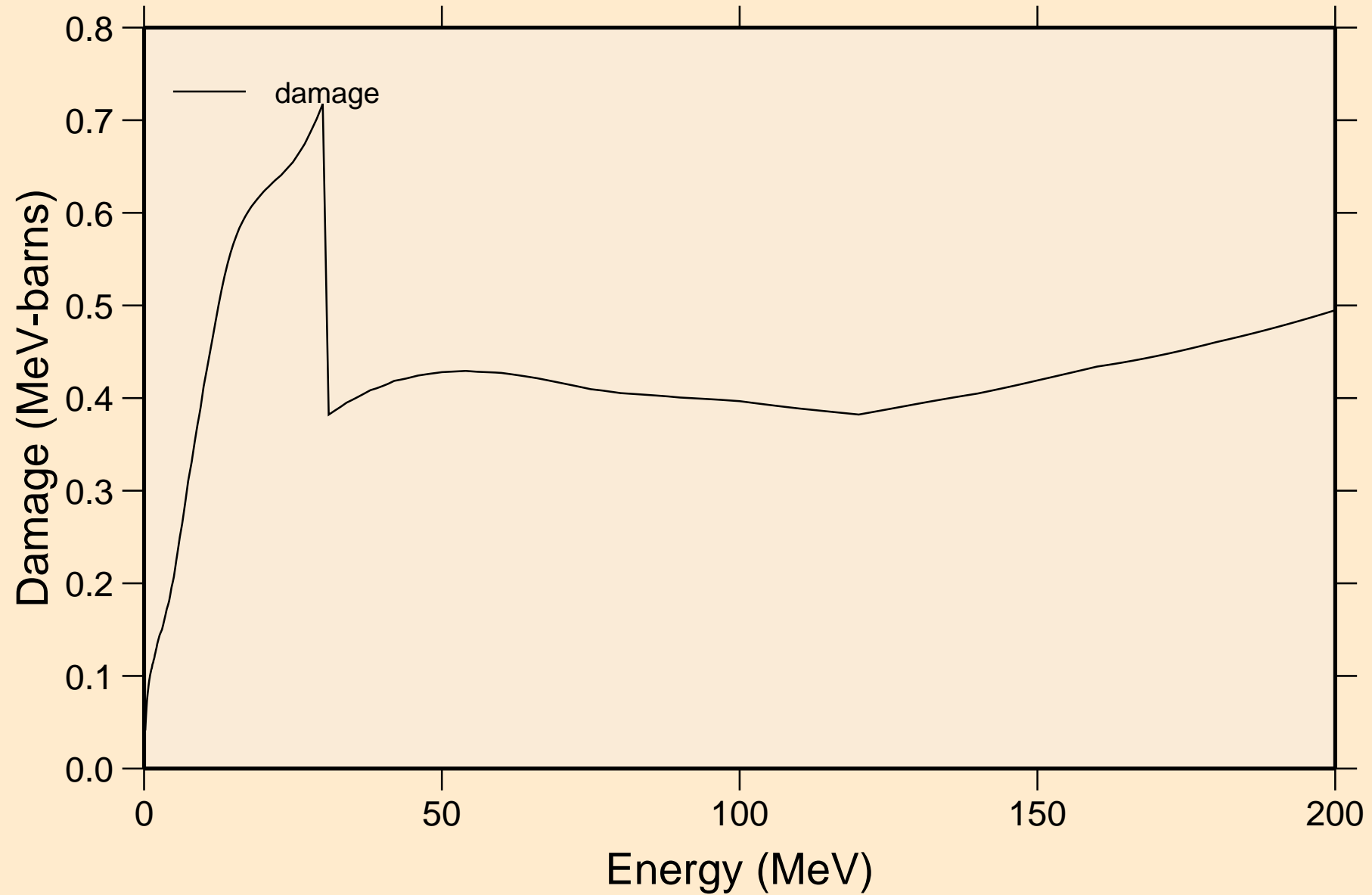
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## Heating

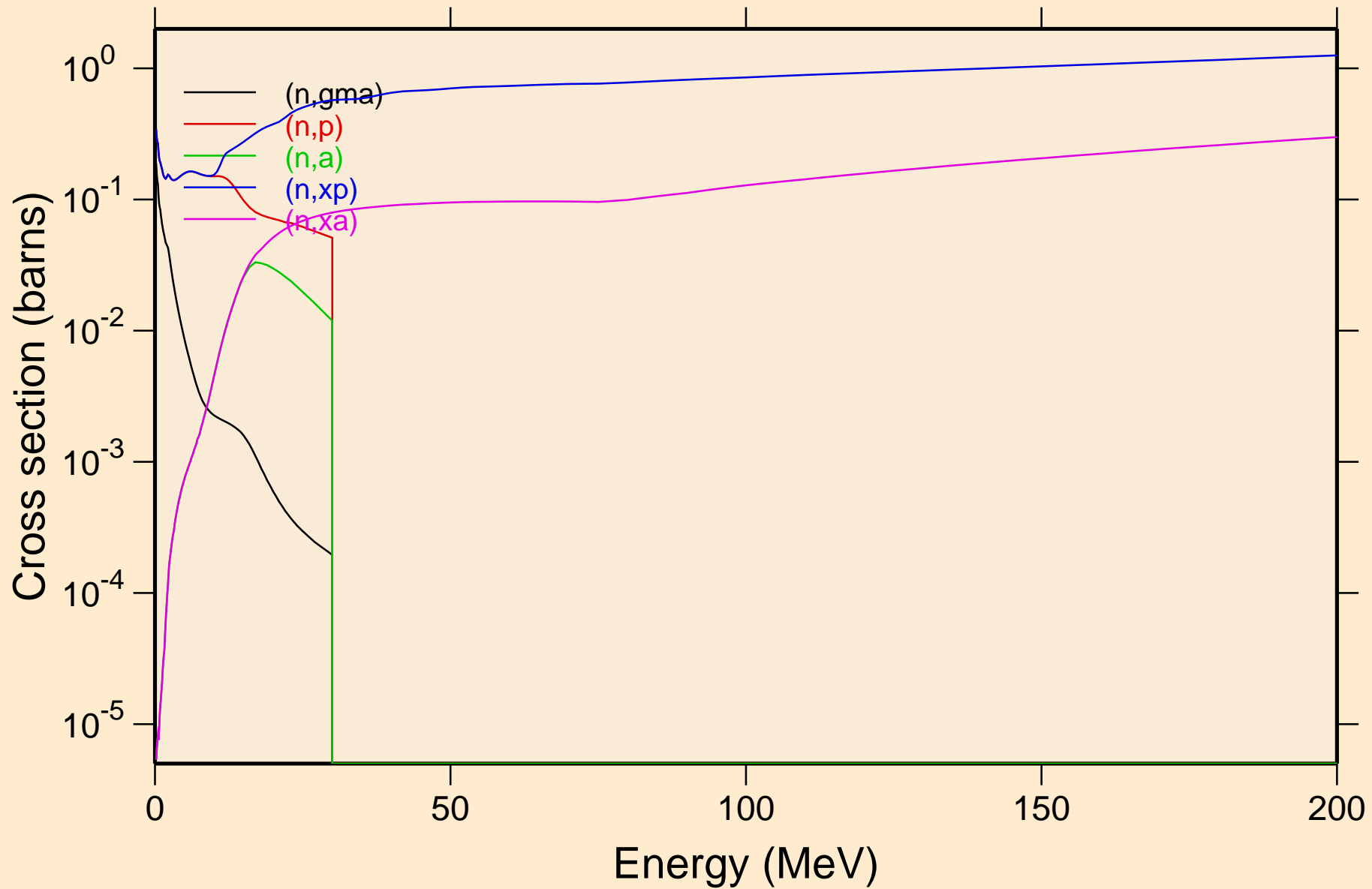


# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Damage

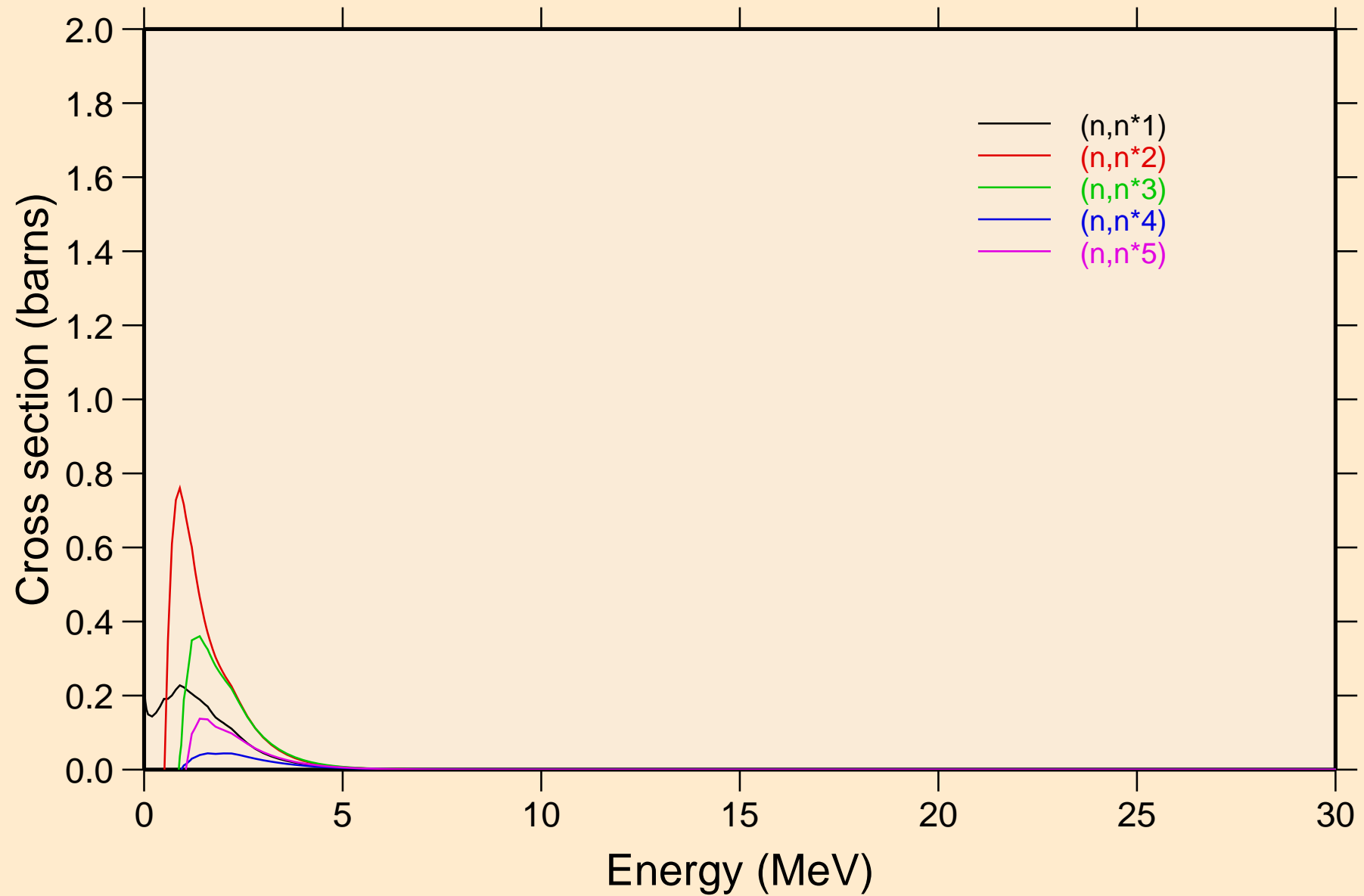


ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Non-threshold reactions



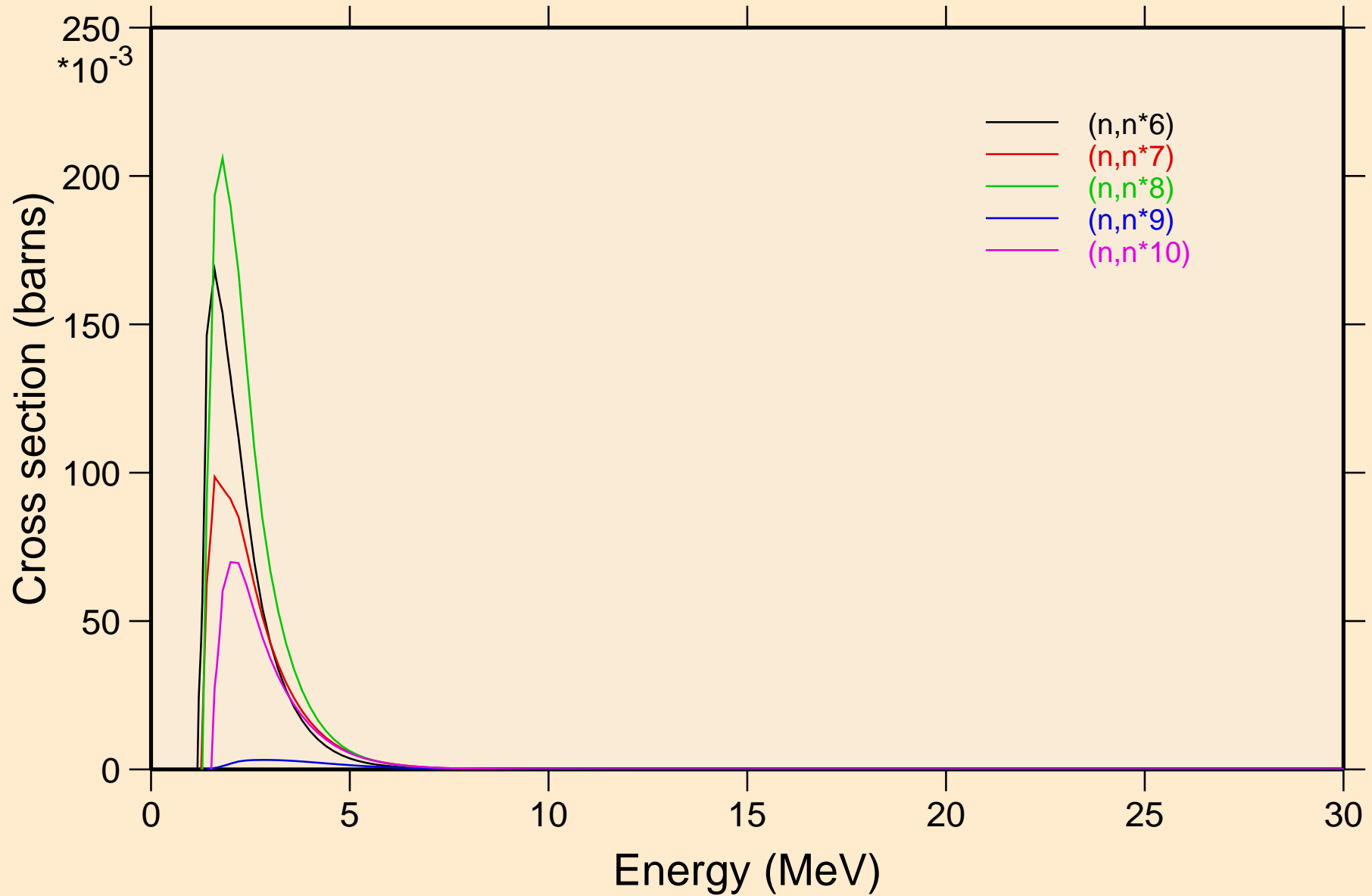


ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

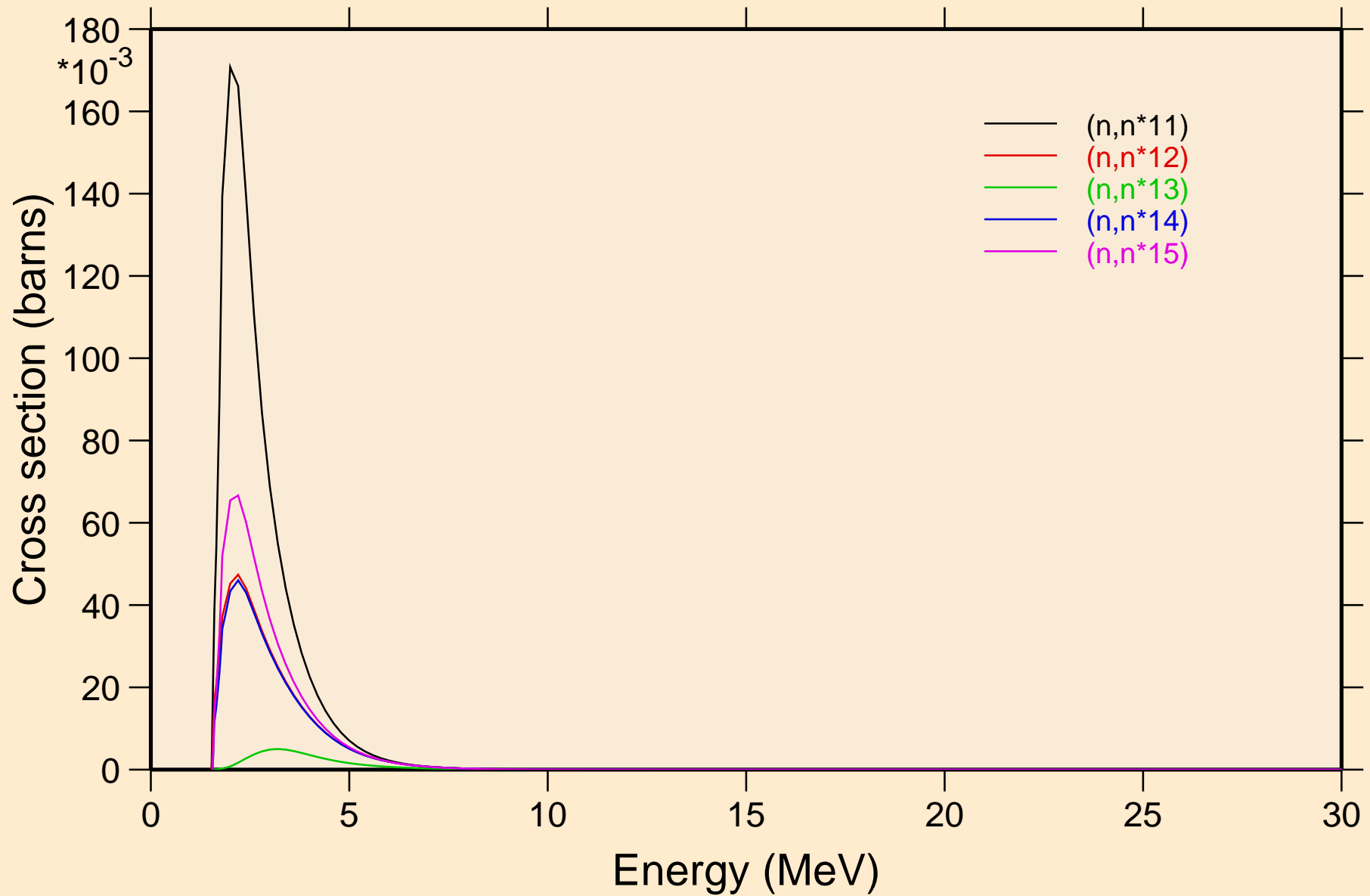


# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

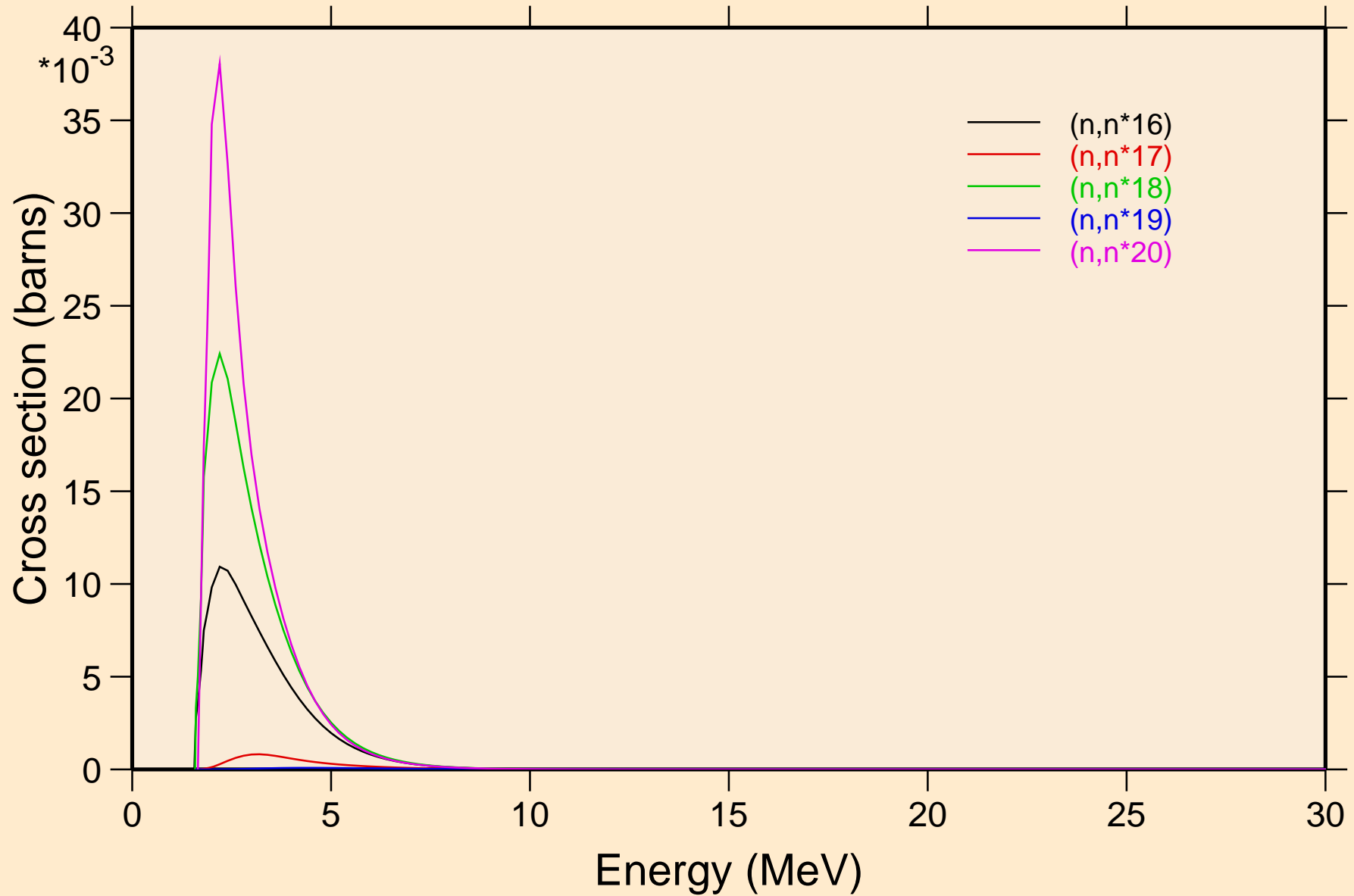
## Inelastic levels



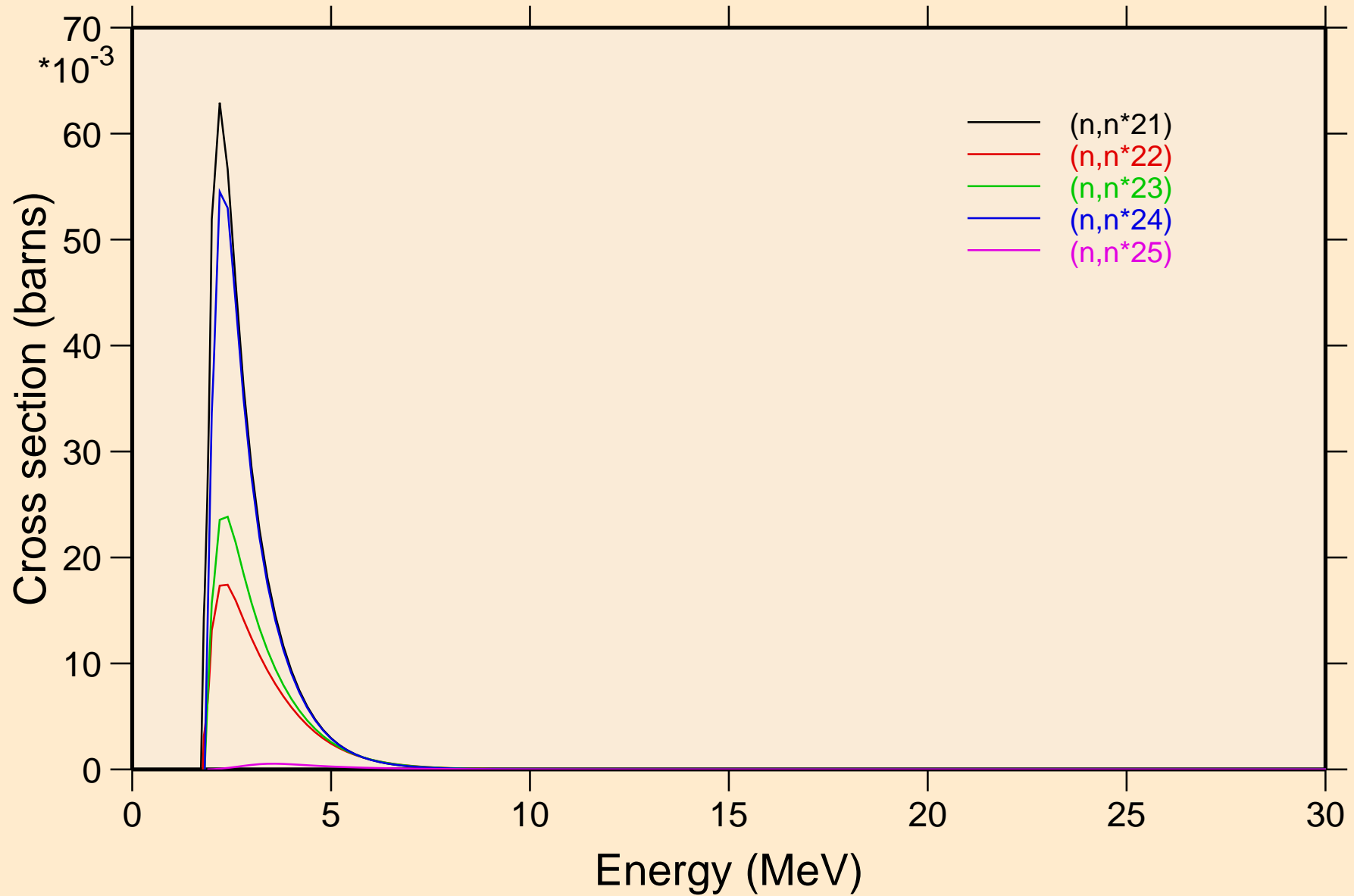
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Inelastic levels



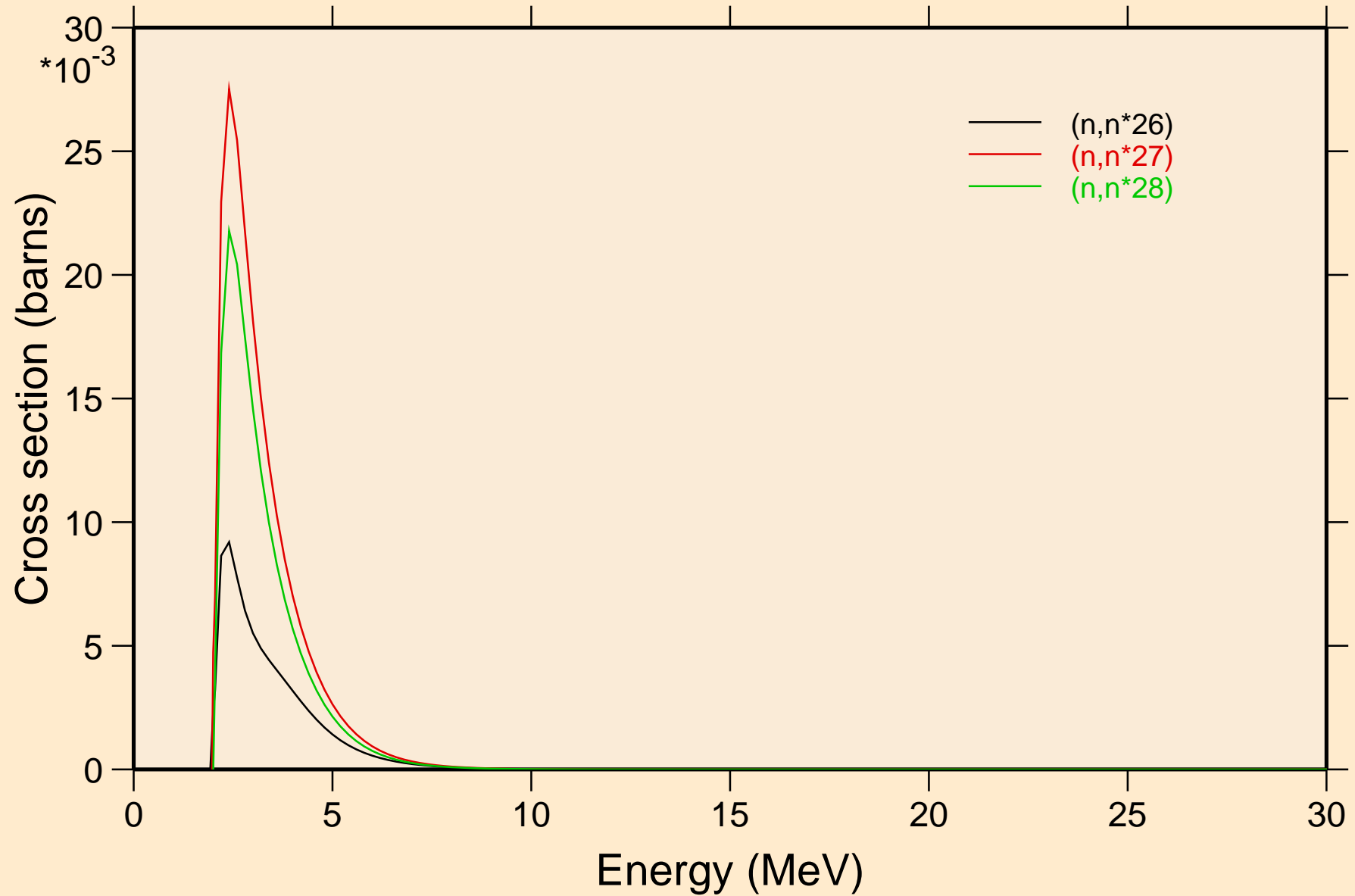
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Inelastic levels



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Inelastic levels

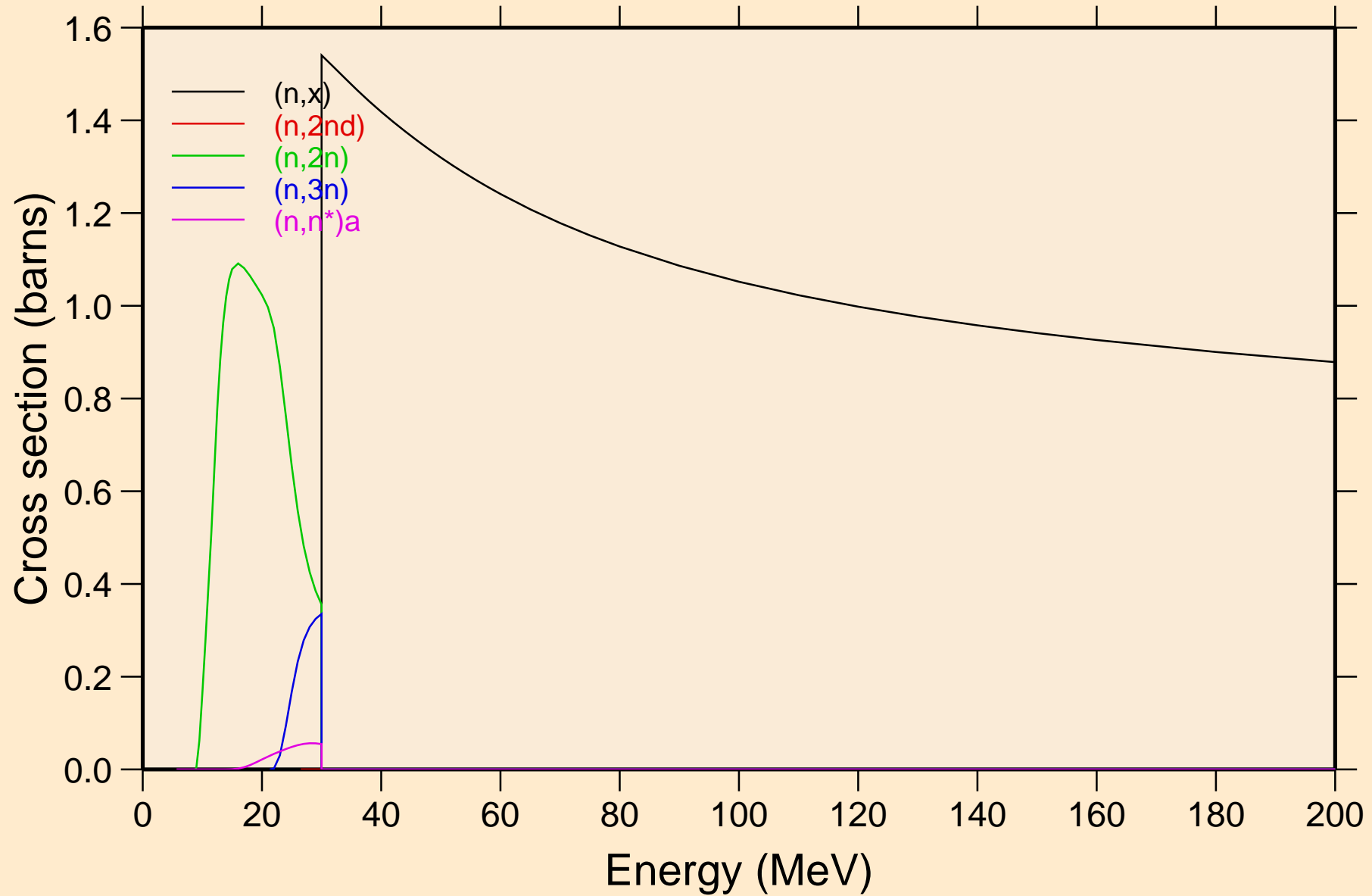


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Inelastic levels



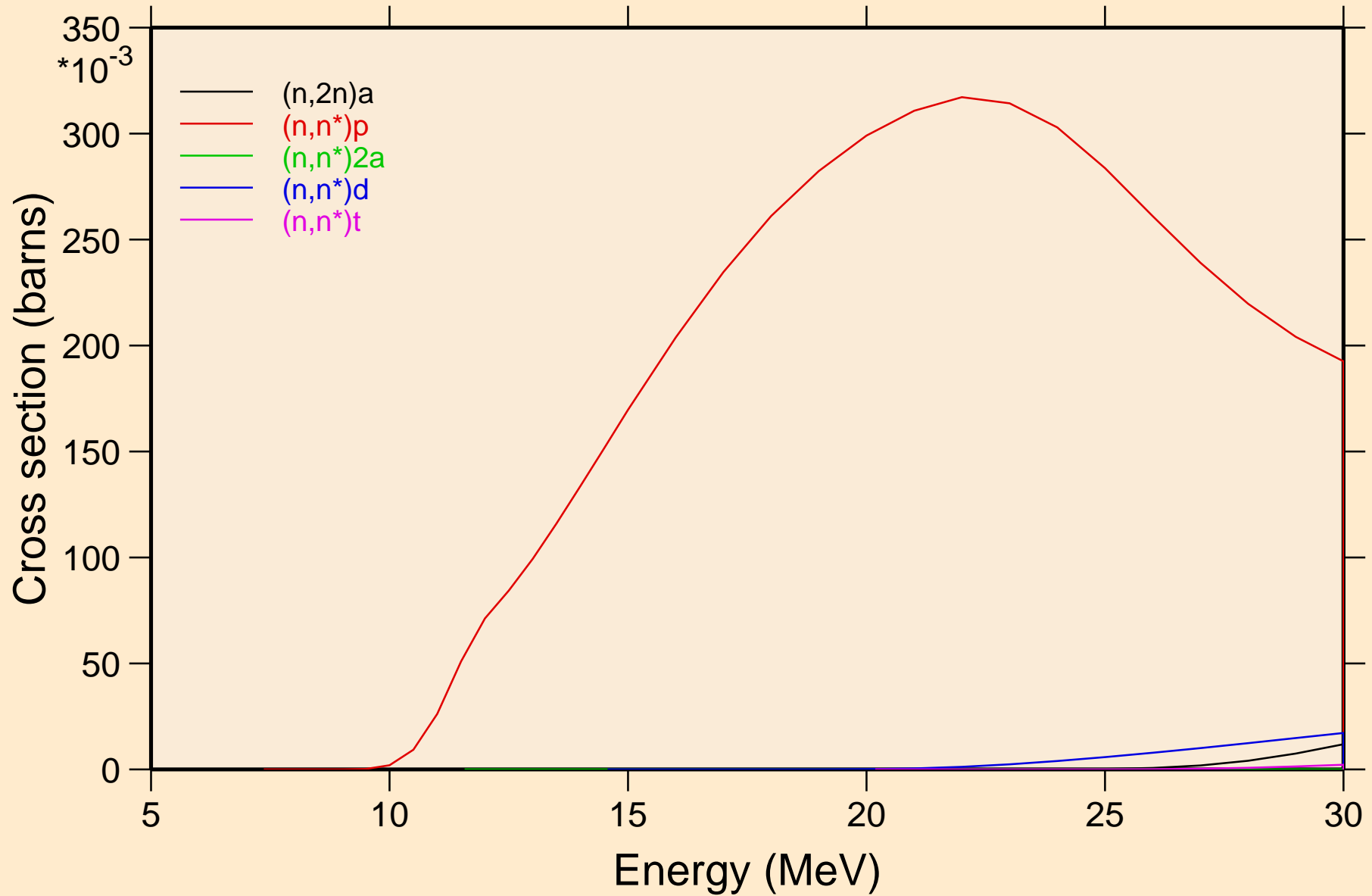
# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Threshold reactions



# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

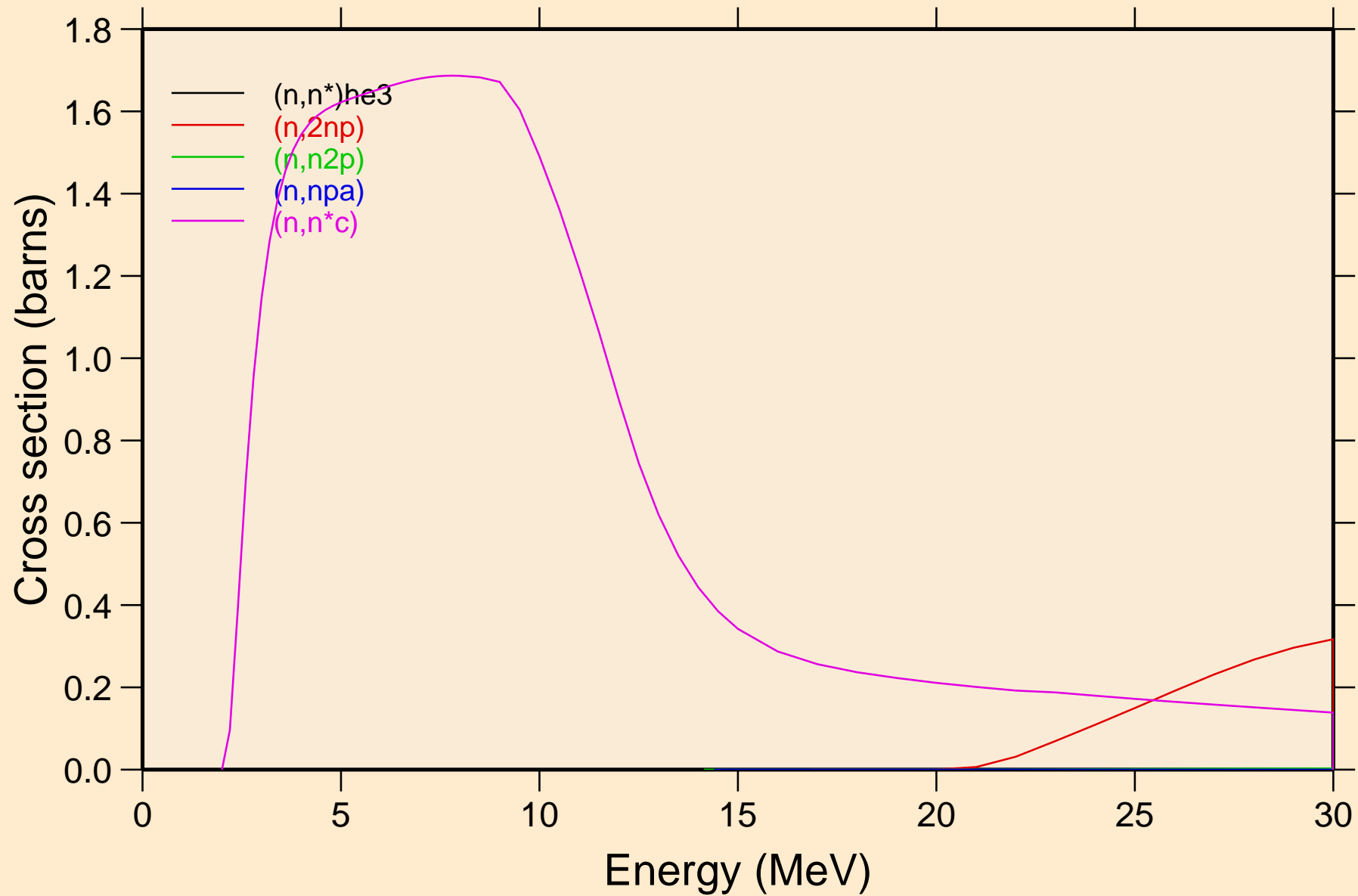
## Threshold reactions





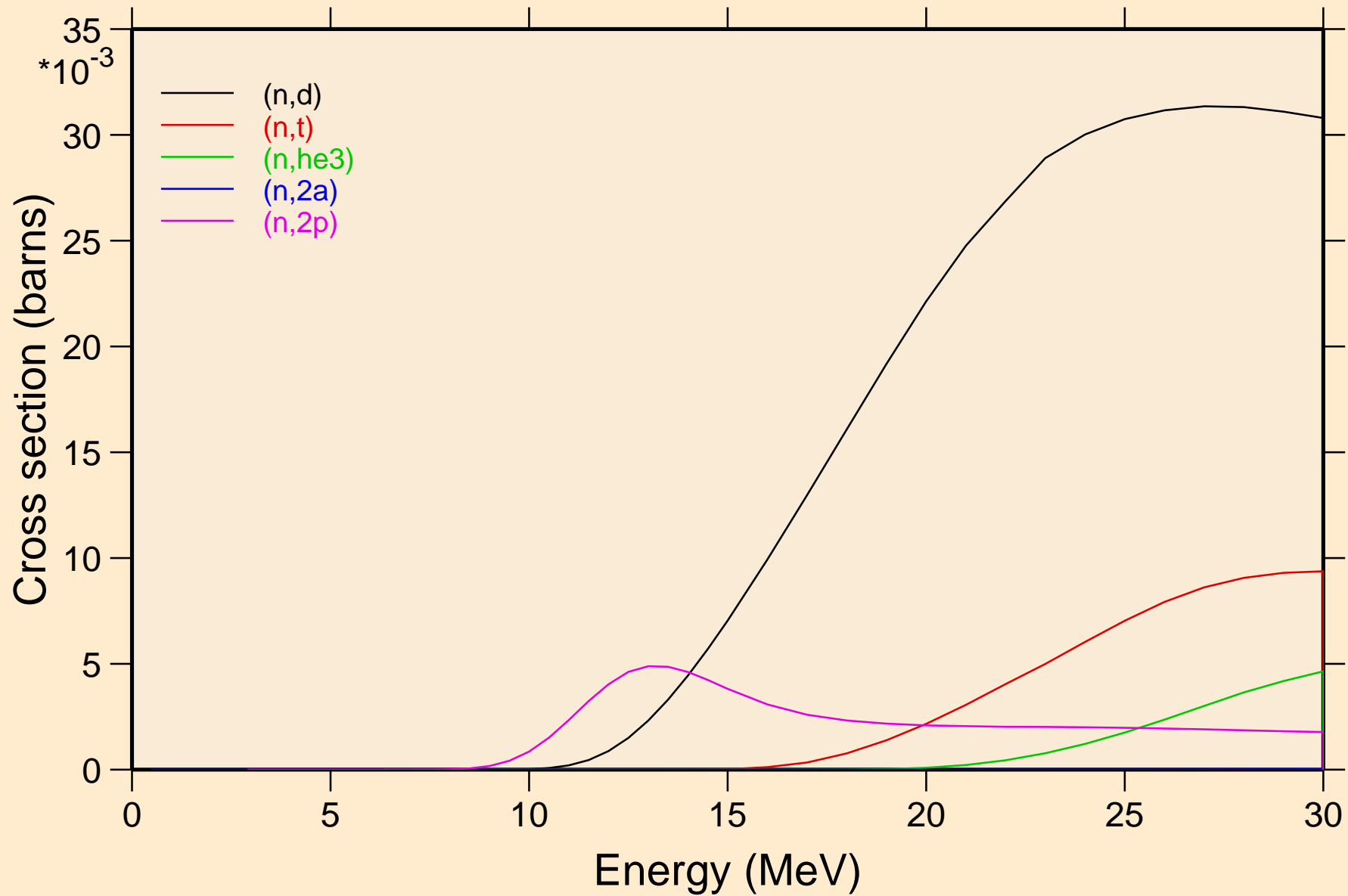
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## Threshold reactions



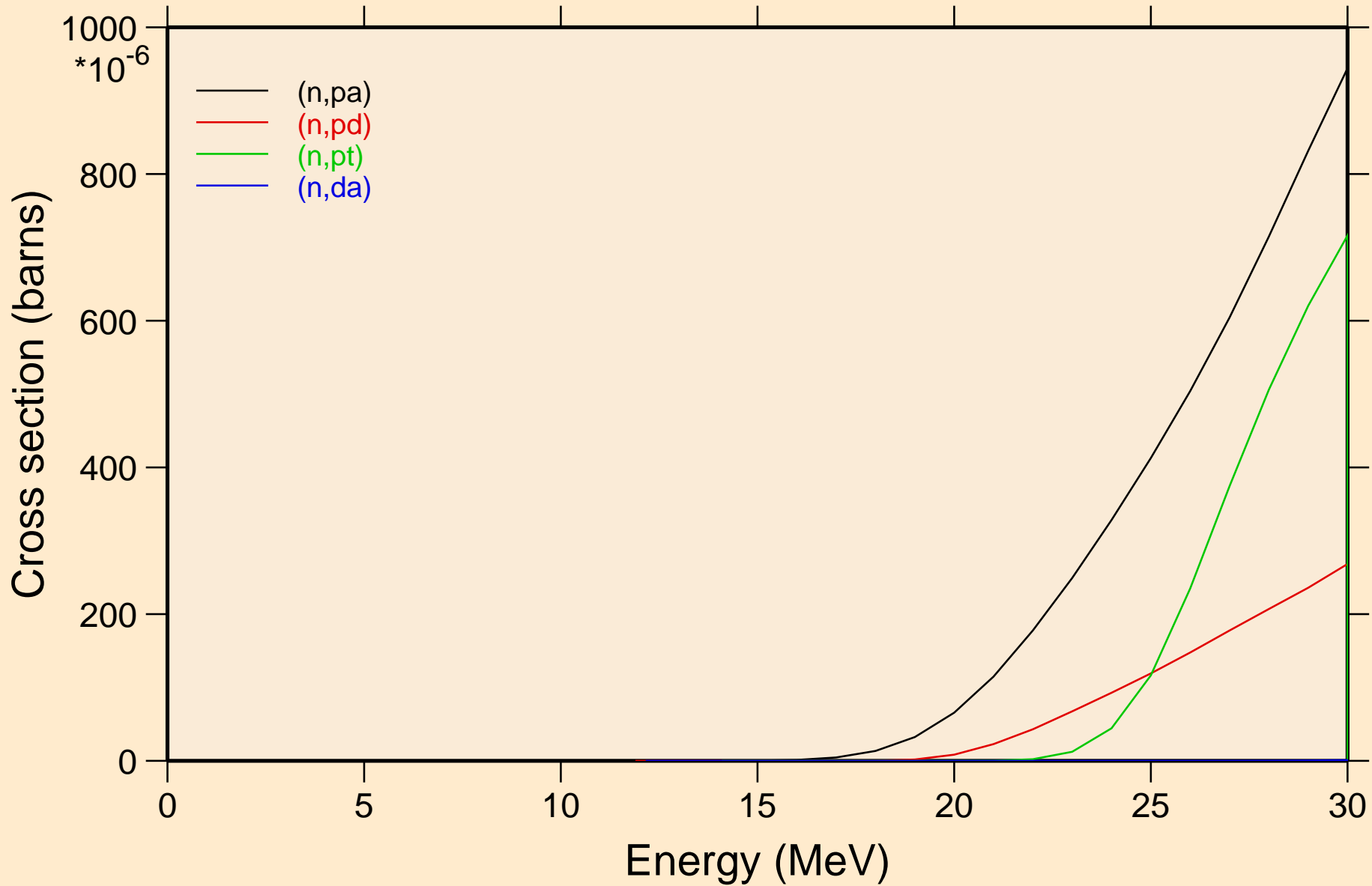
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## Threshold reactions

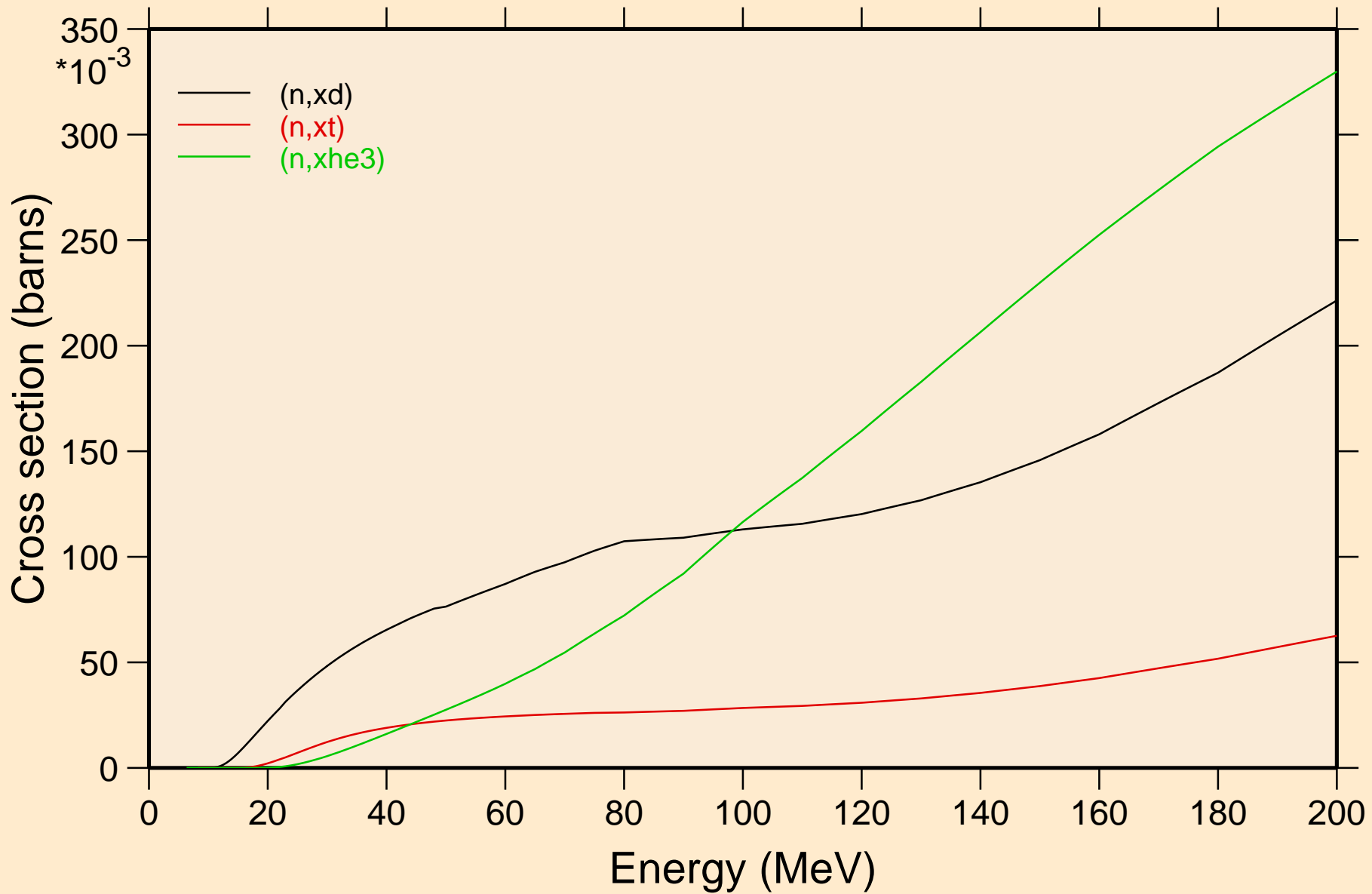


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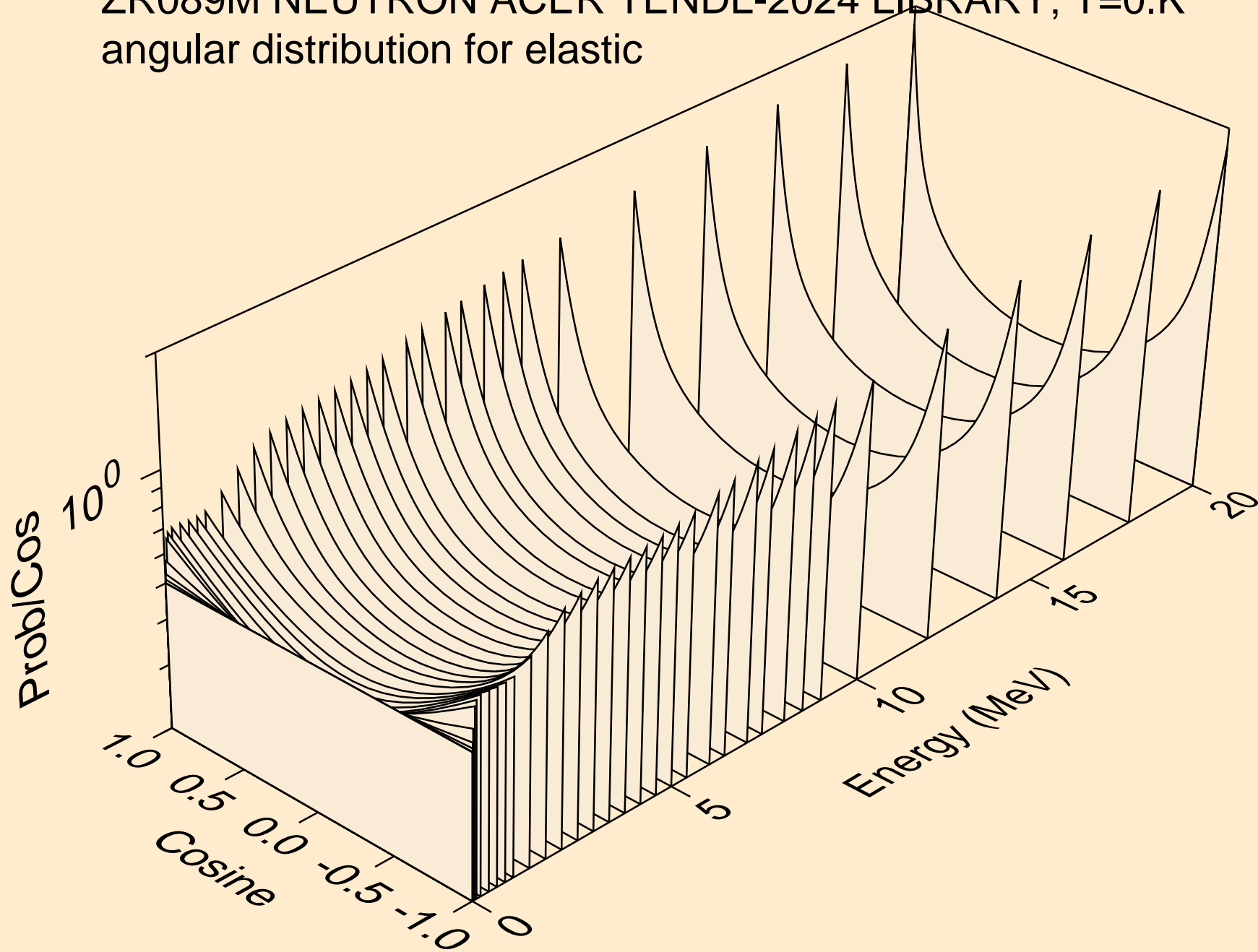
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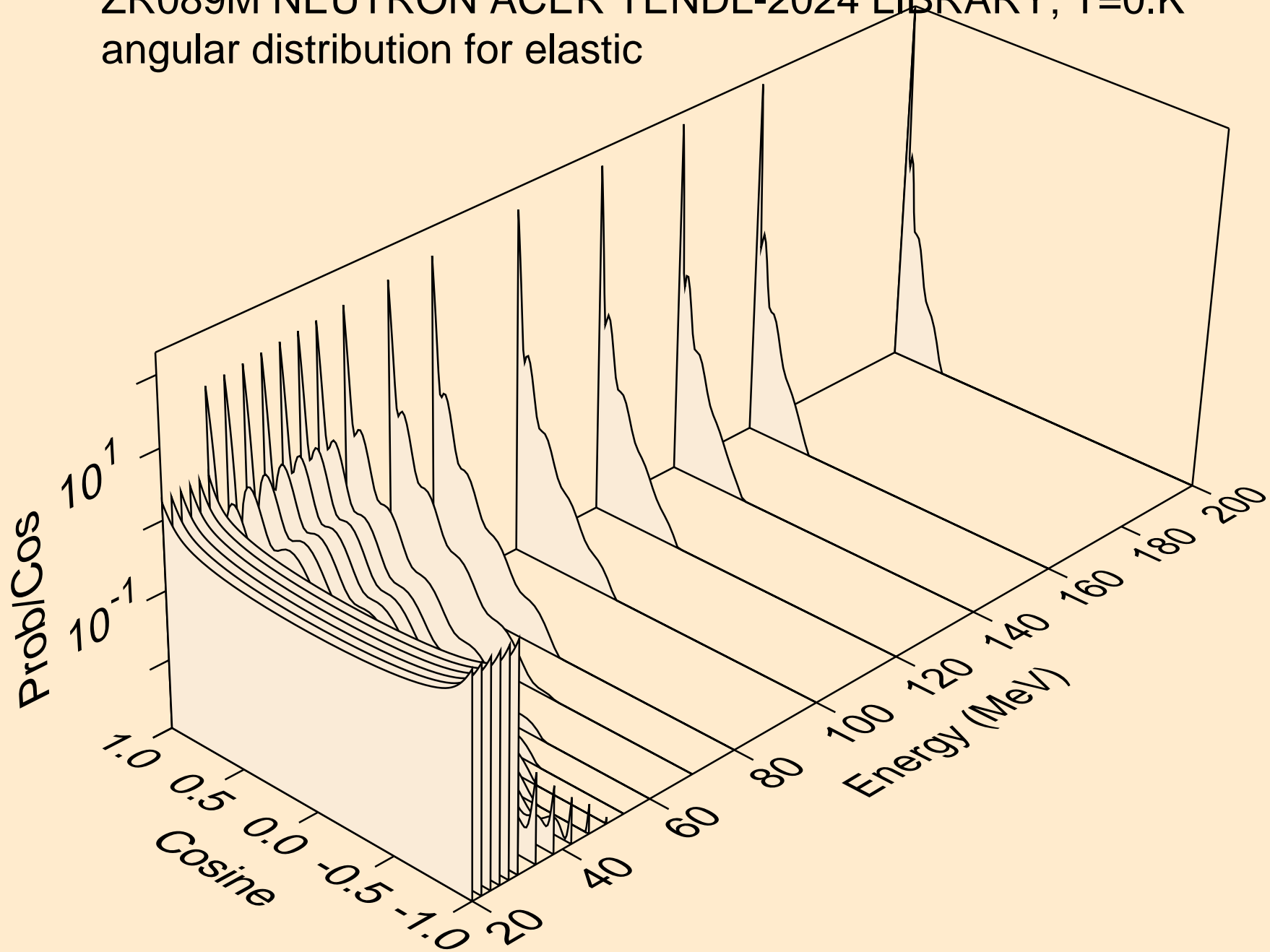
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Threshold reactions



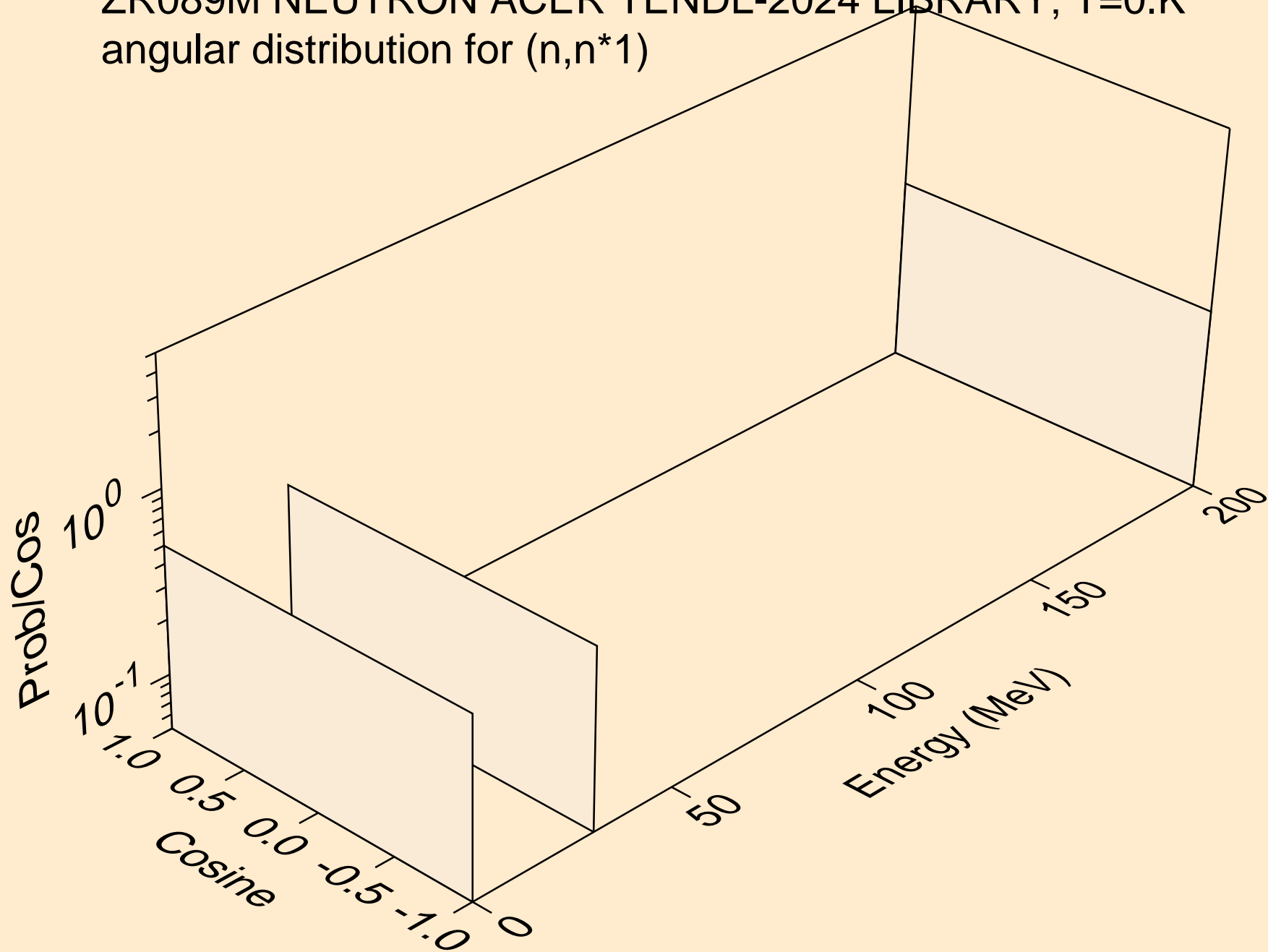
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angular distribution for elastic



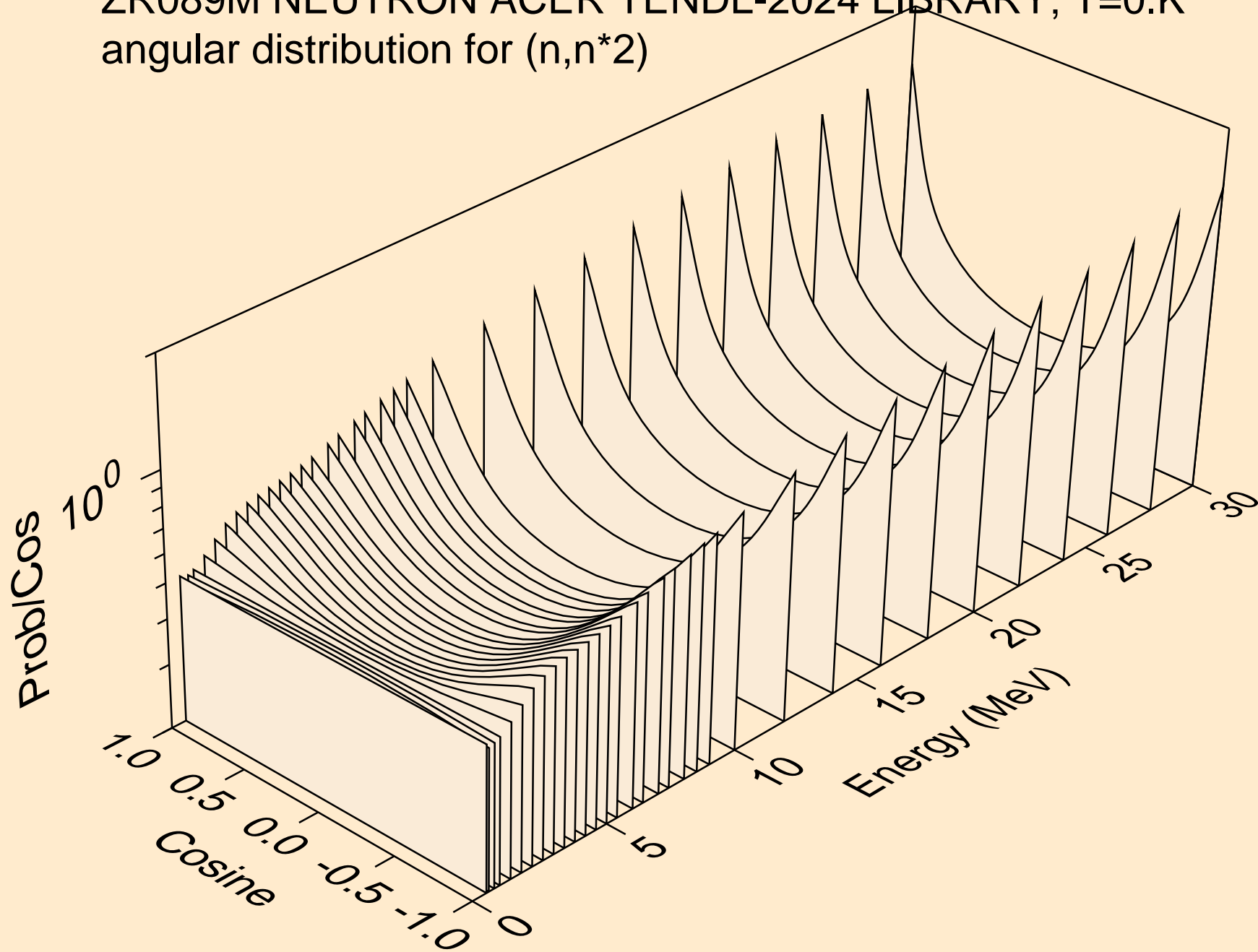
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

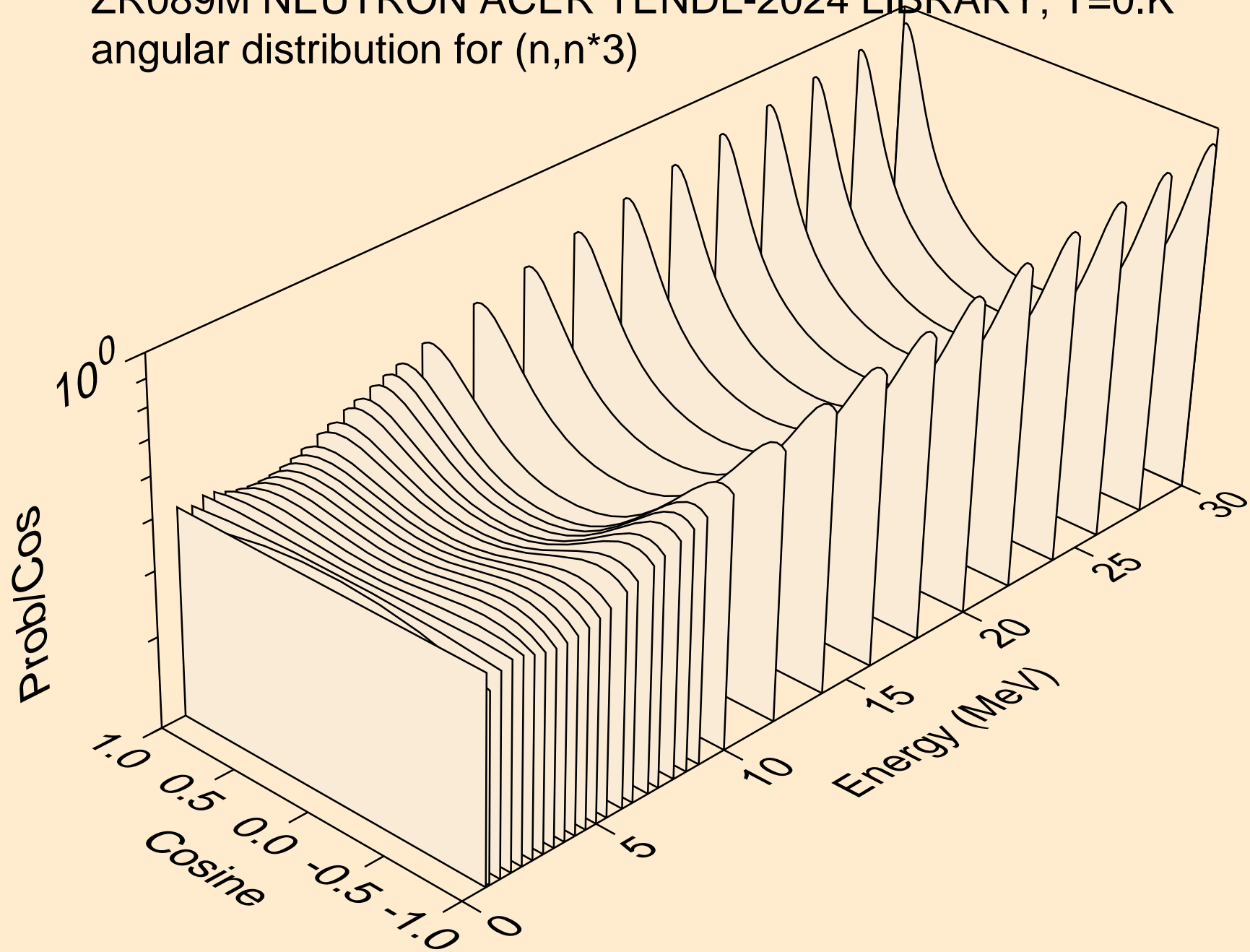


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angular distribution for (n,n\*2)

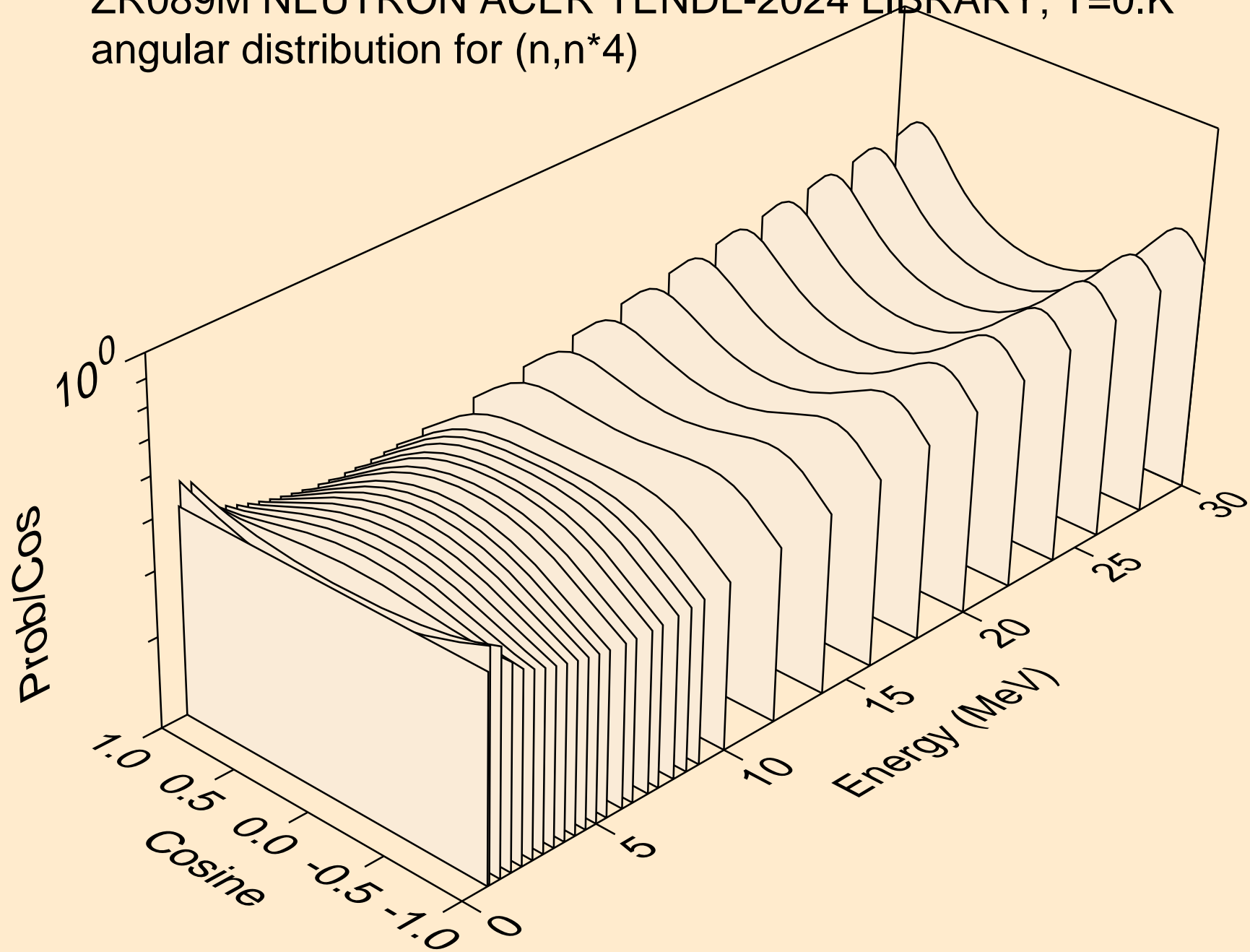




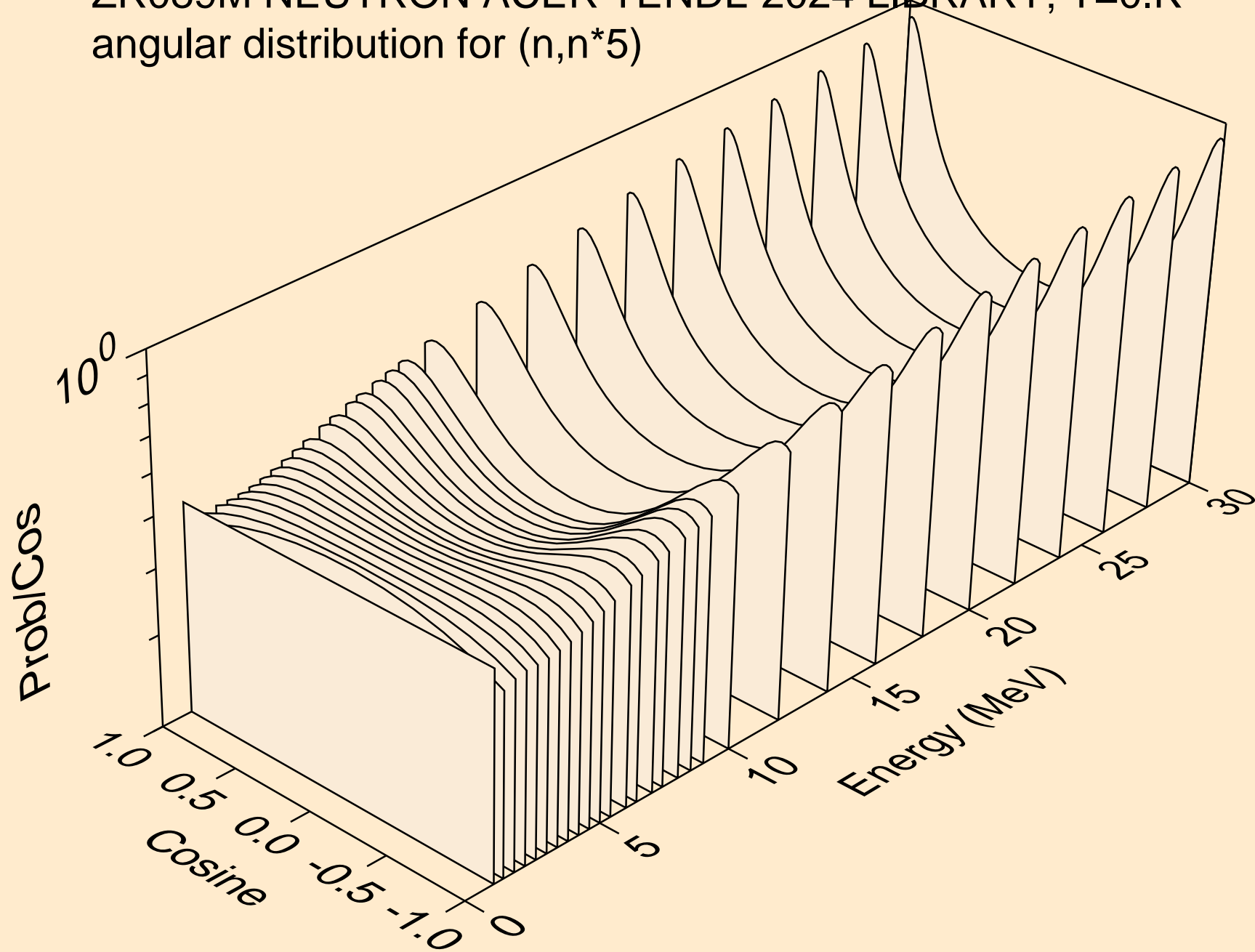
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angular distribution for (n,n\*3)



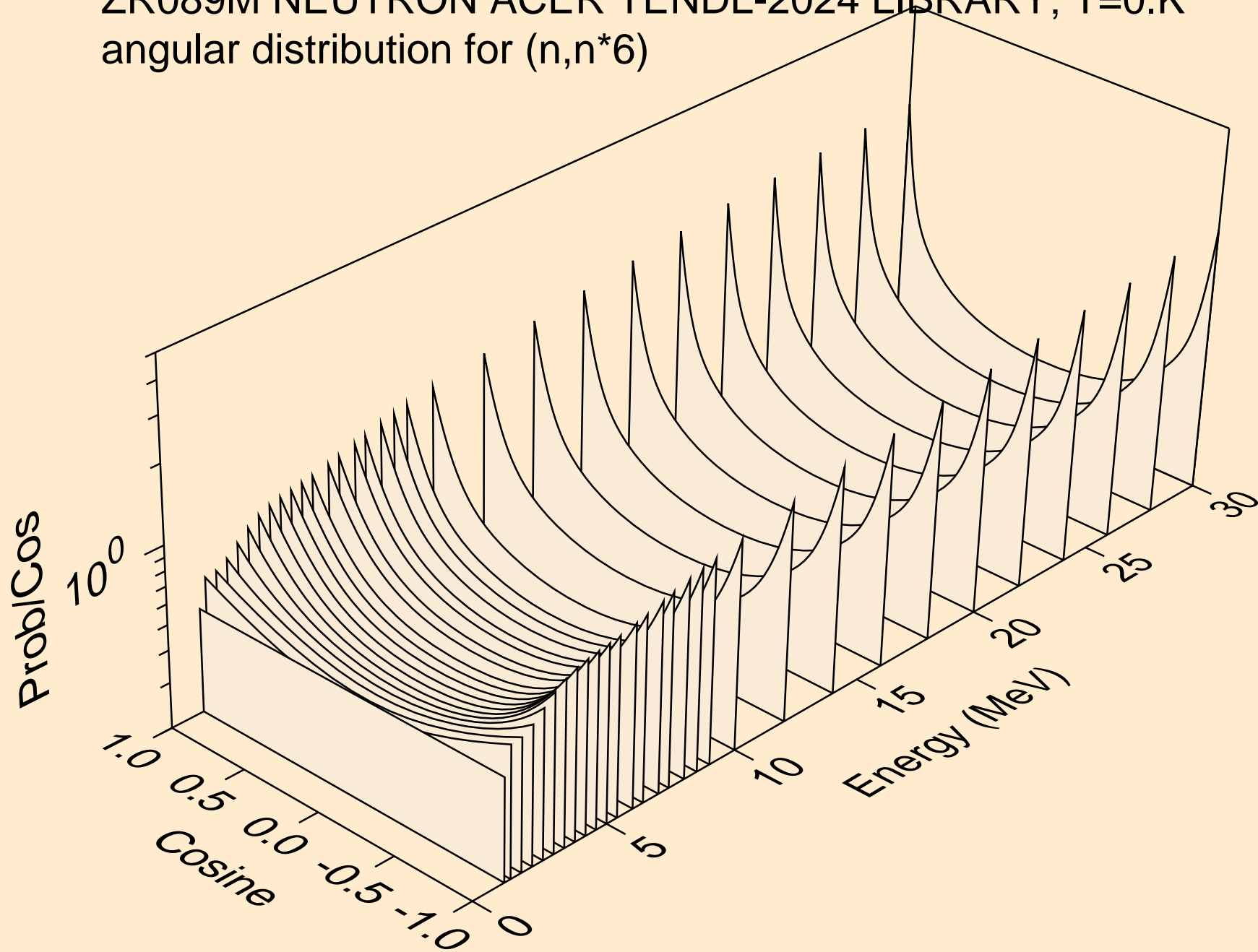
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angular distribution for (n,n\*4)



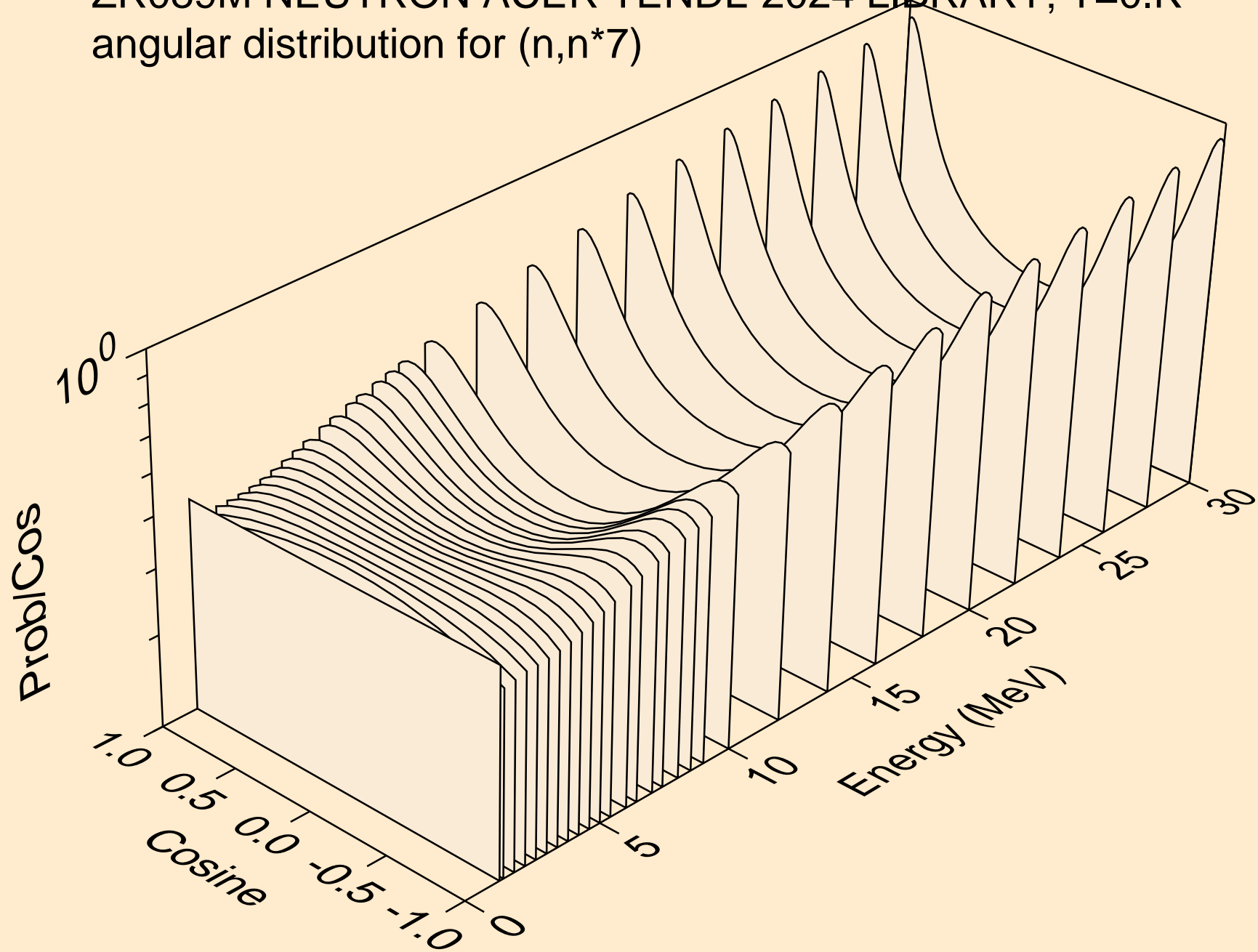
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angular distribution for (n,n\*5)



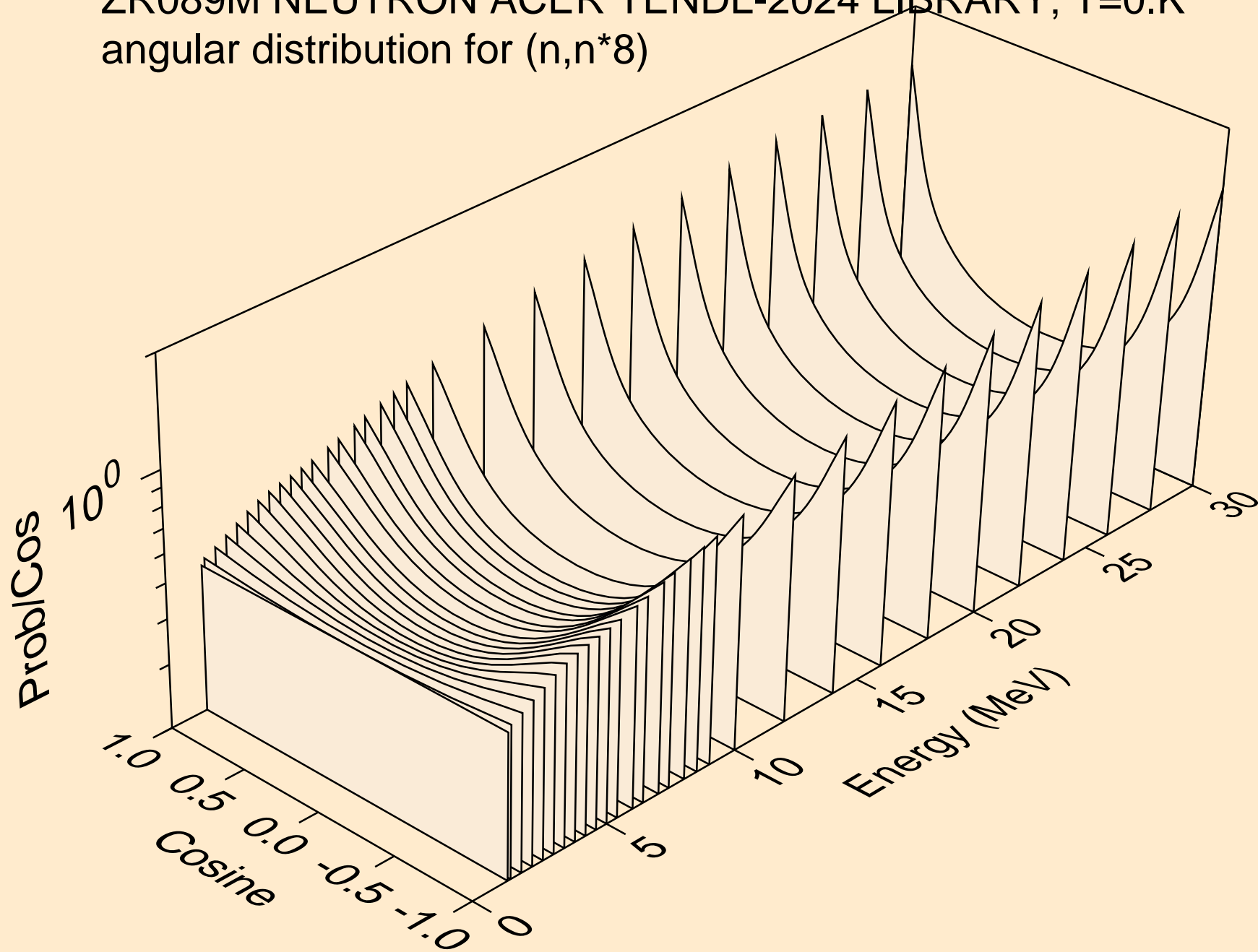
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angular distribution for (n,n\*6)



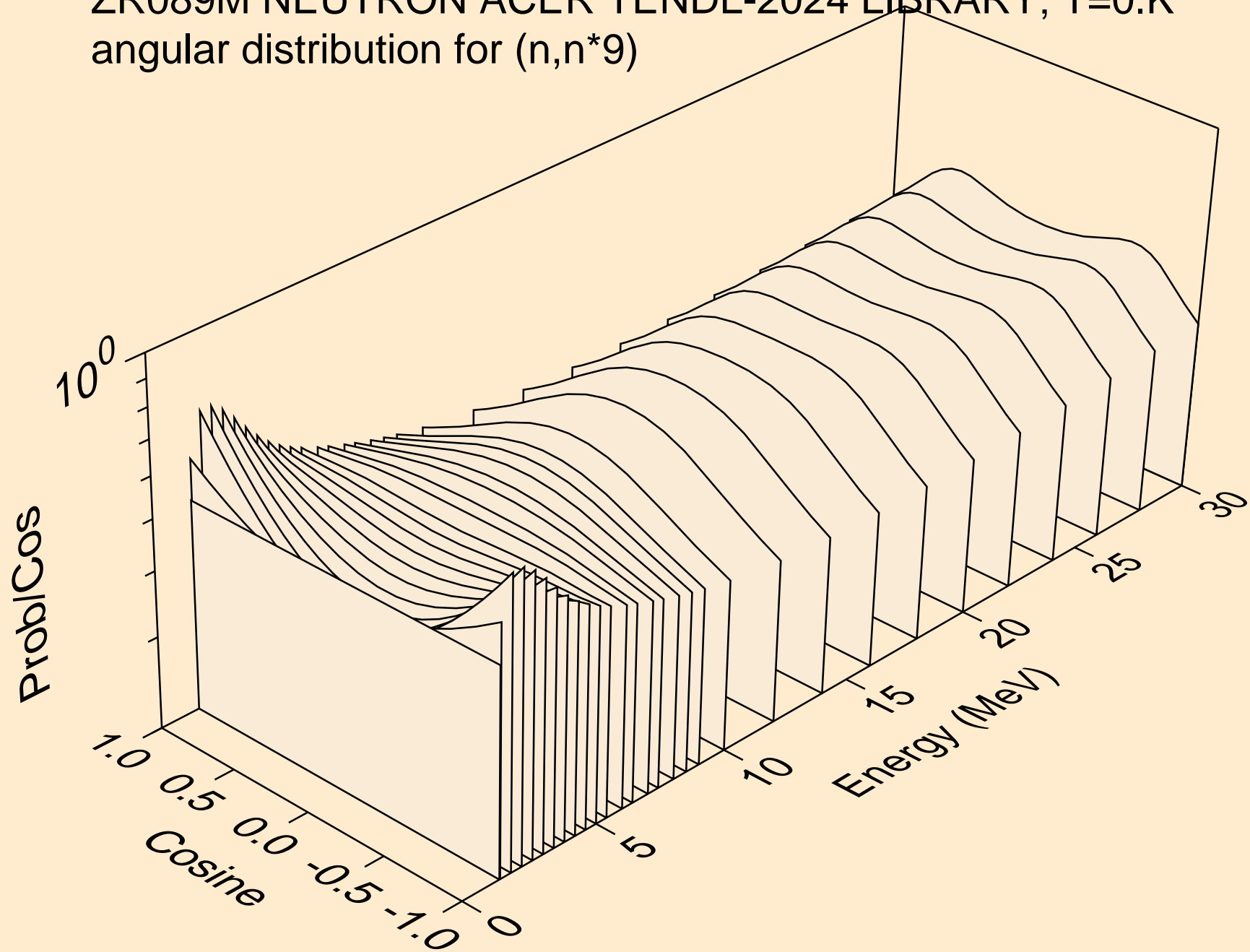
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angular distribution for (n,n\*7)



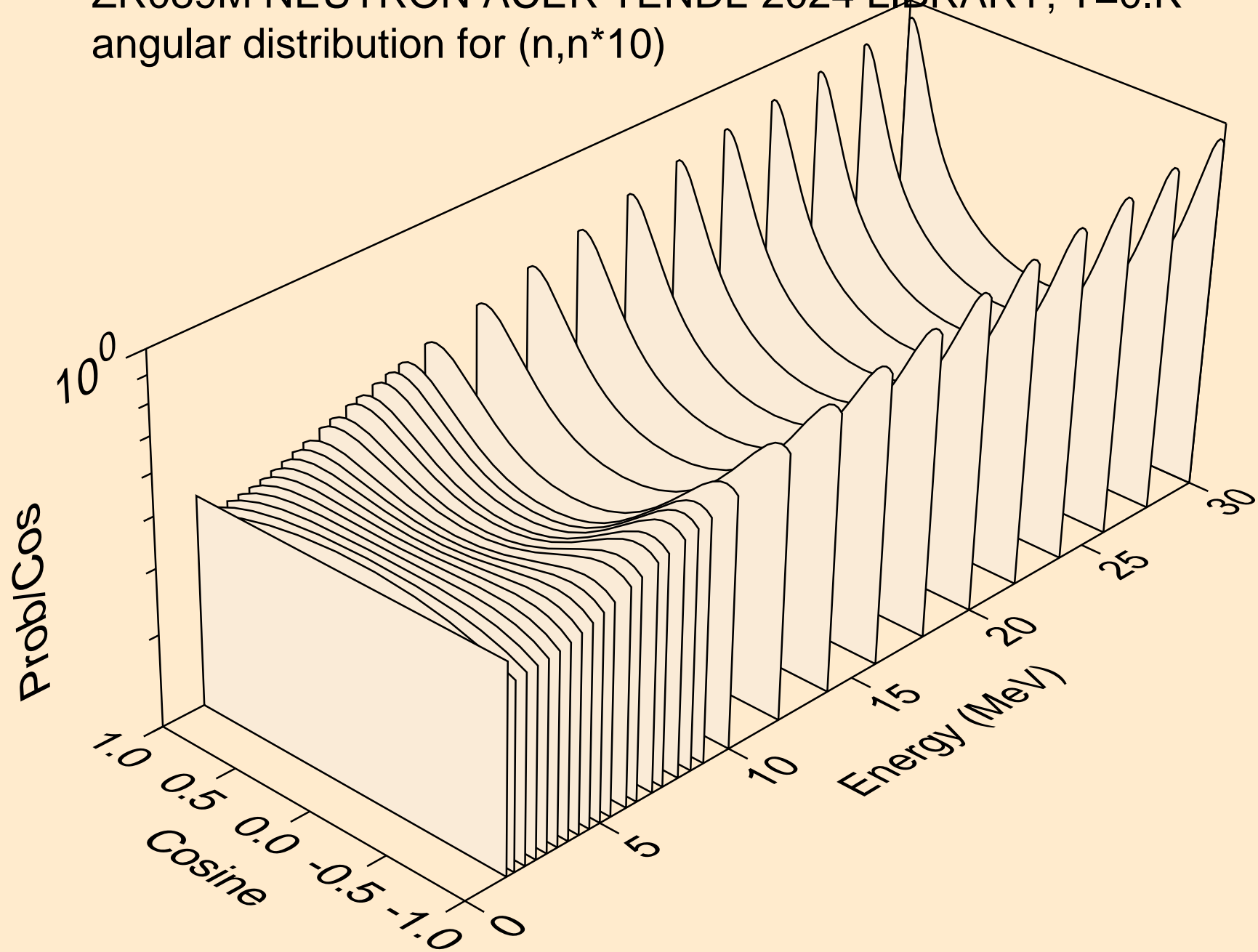
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

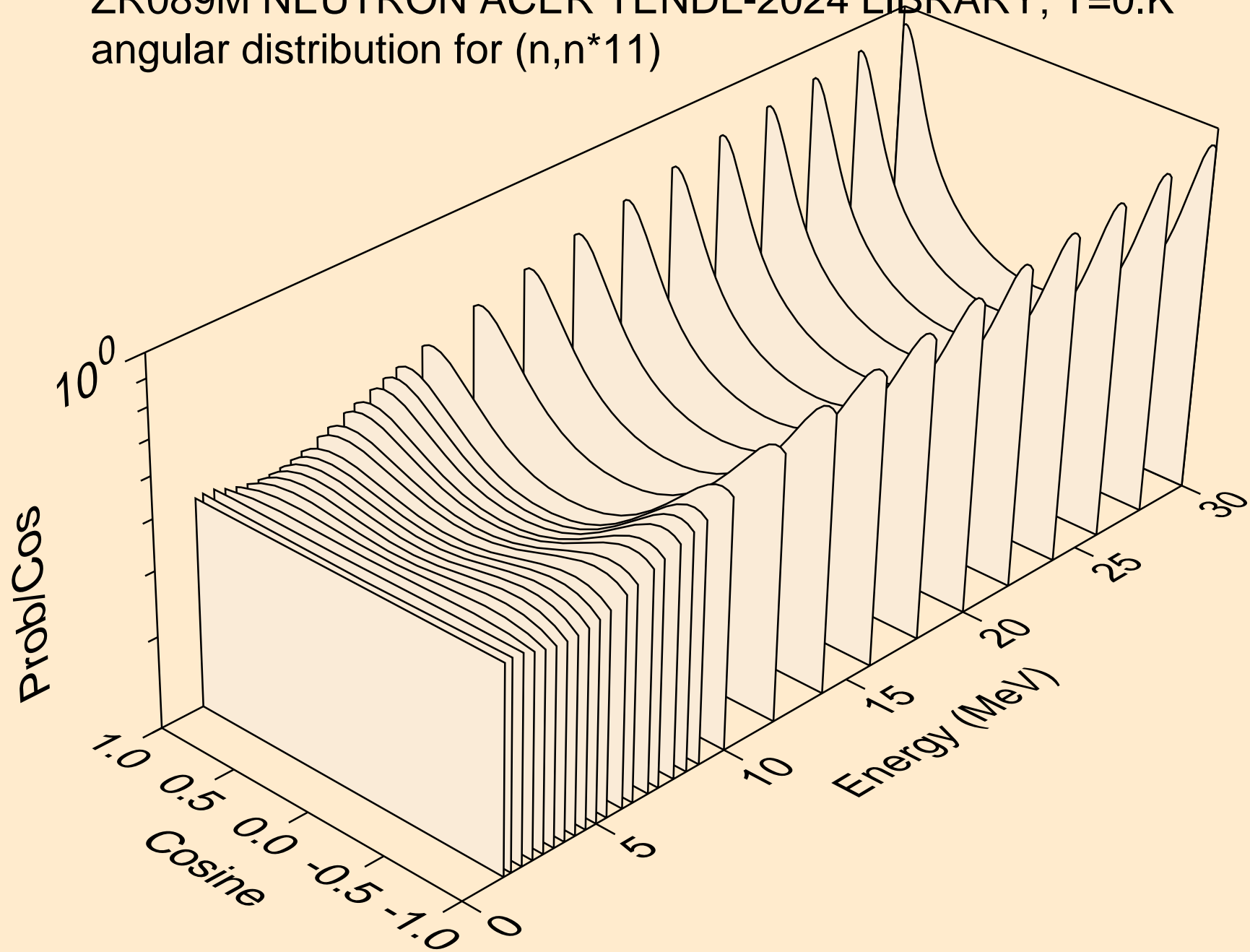


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angular distribution for (n,n\*10)

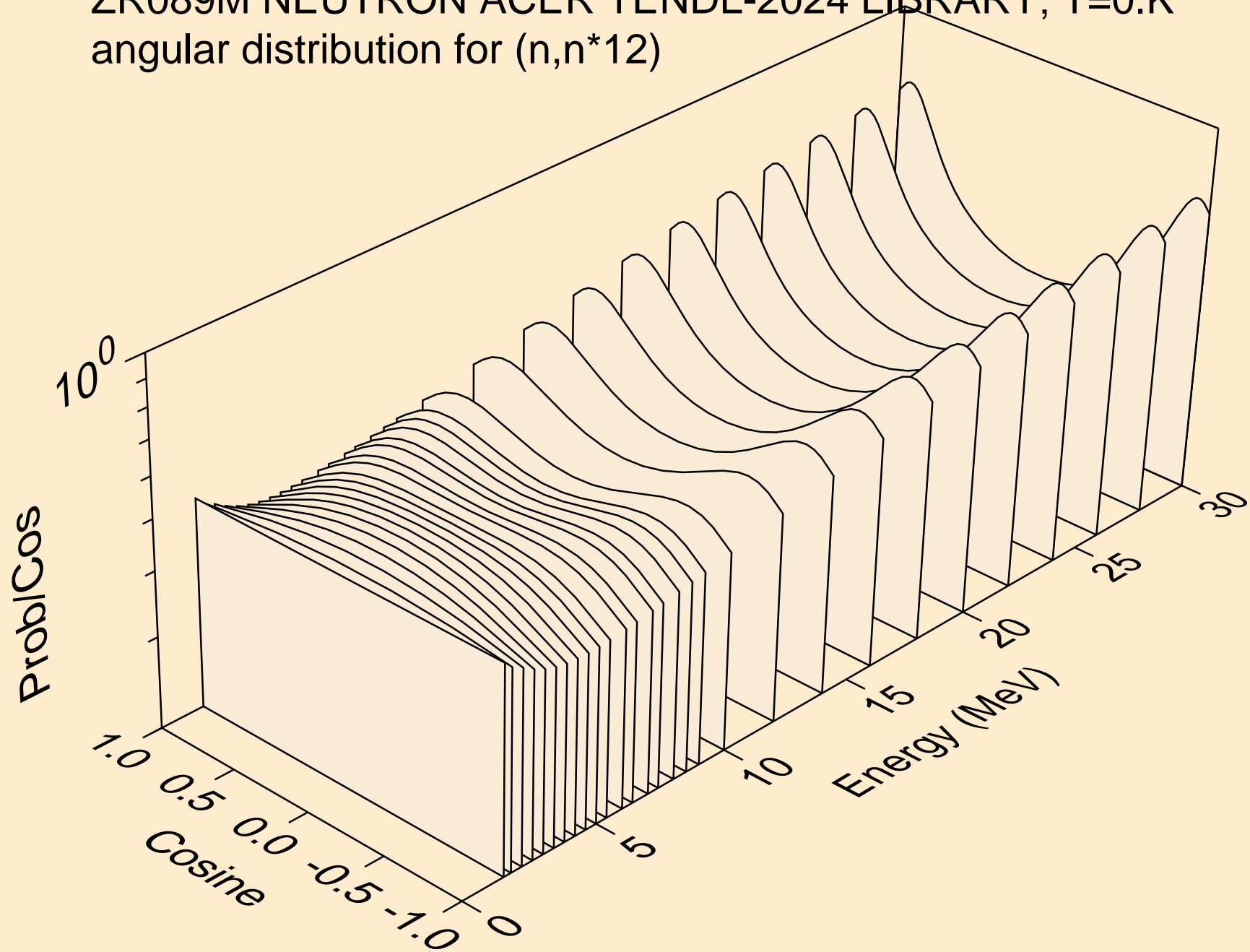




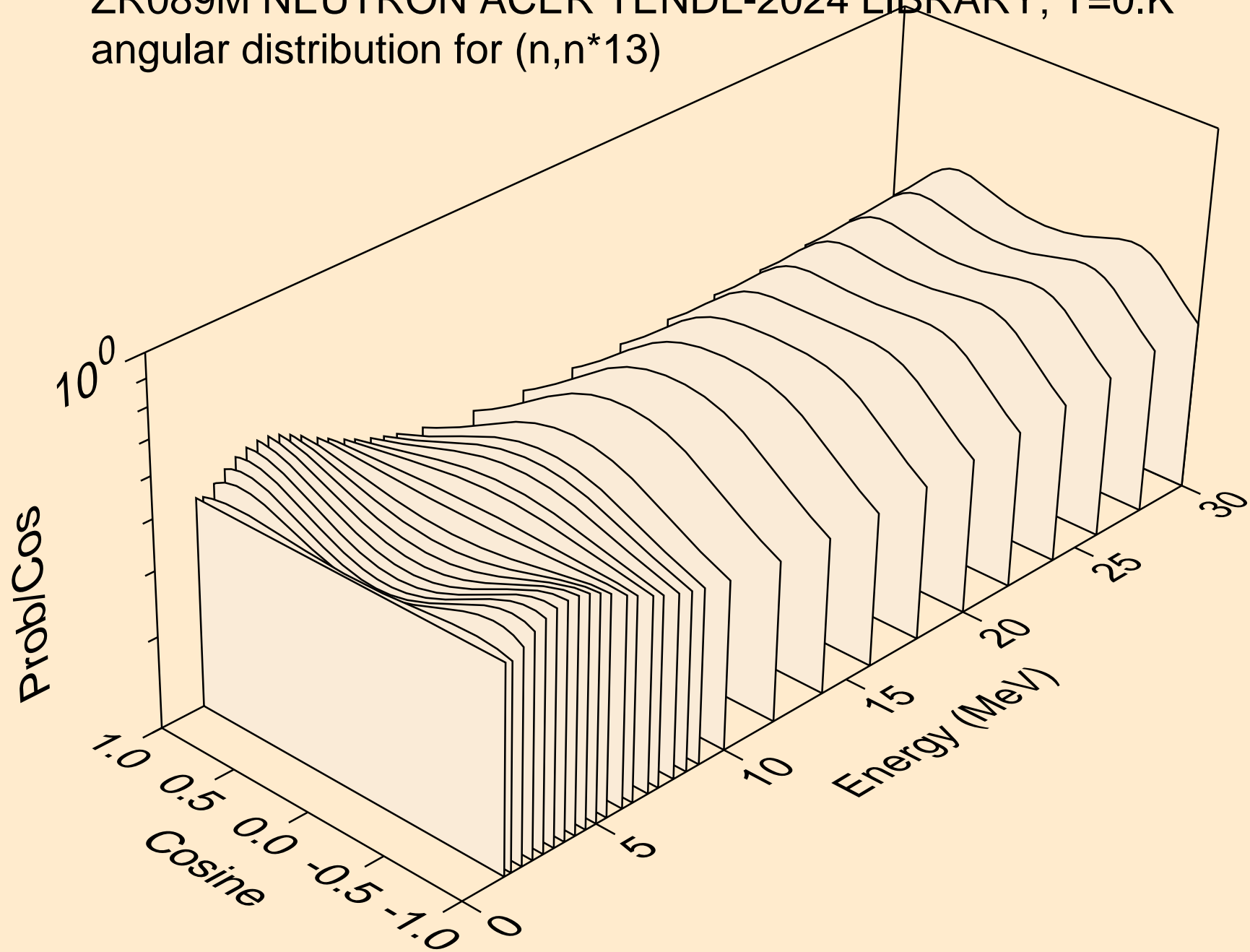
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angular distribution for (n,n\*11)



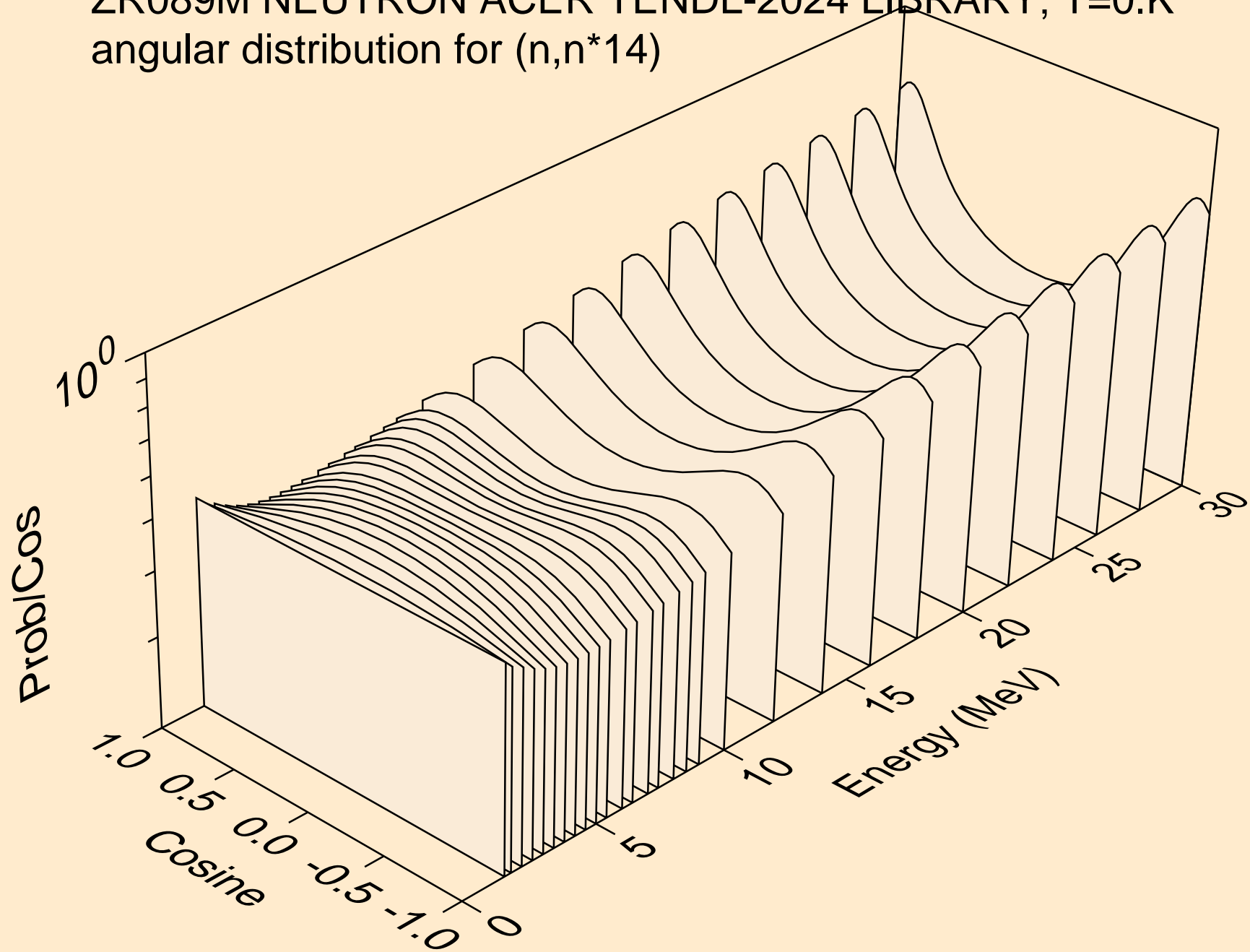
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angular distribution for (n,n\*12)



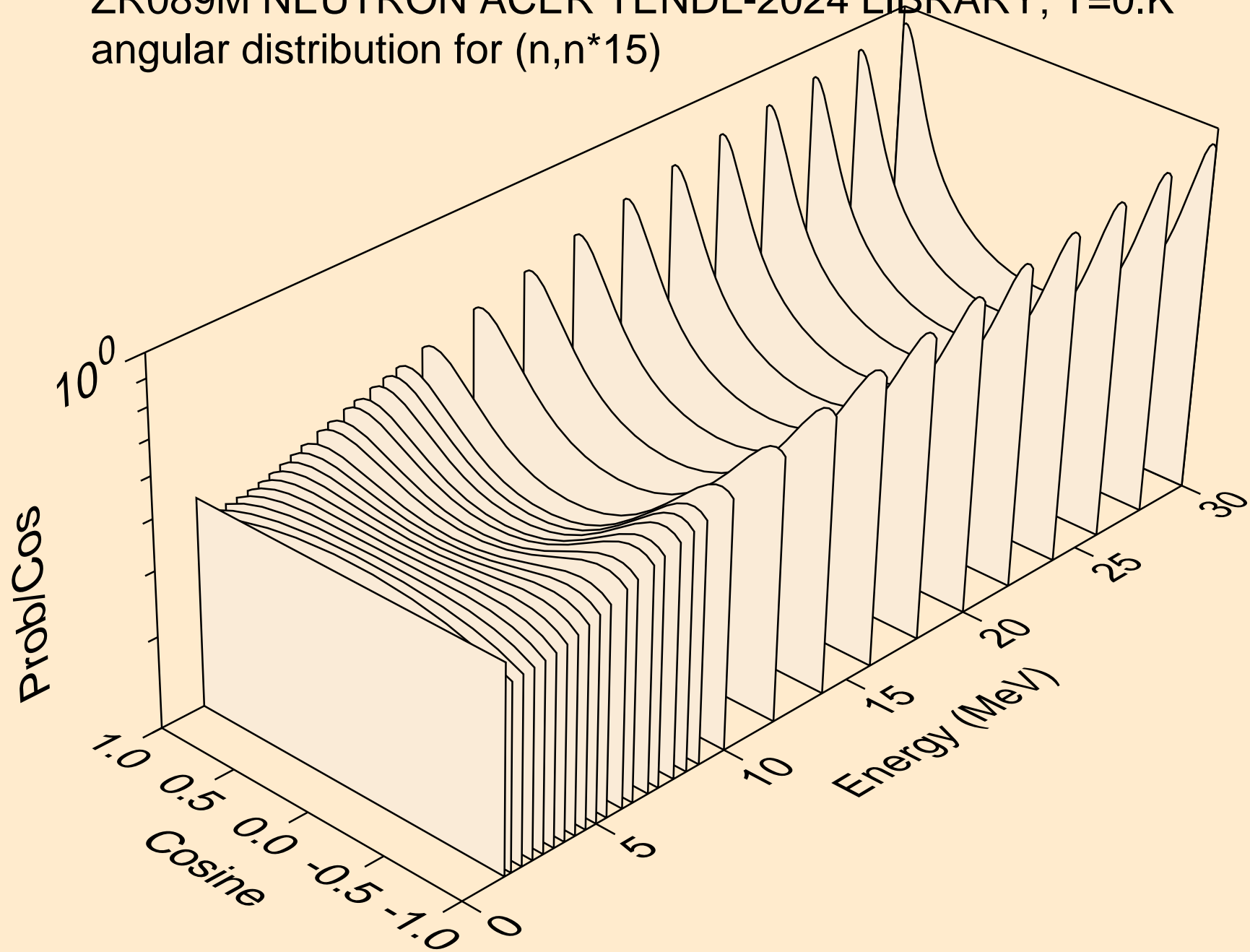
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angular distribution for (n,n\*13)



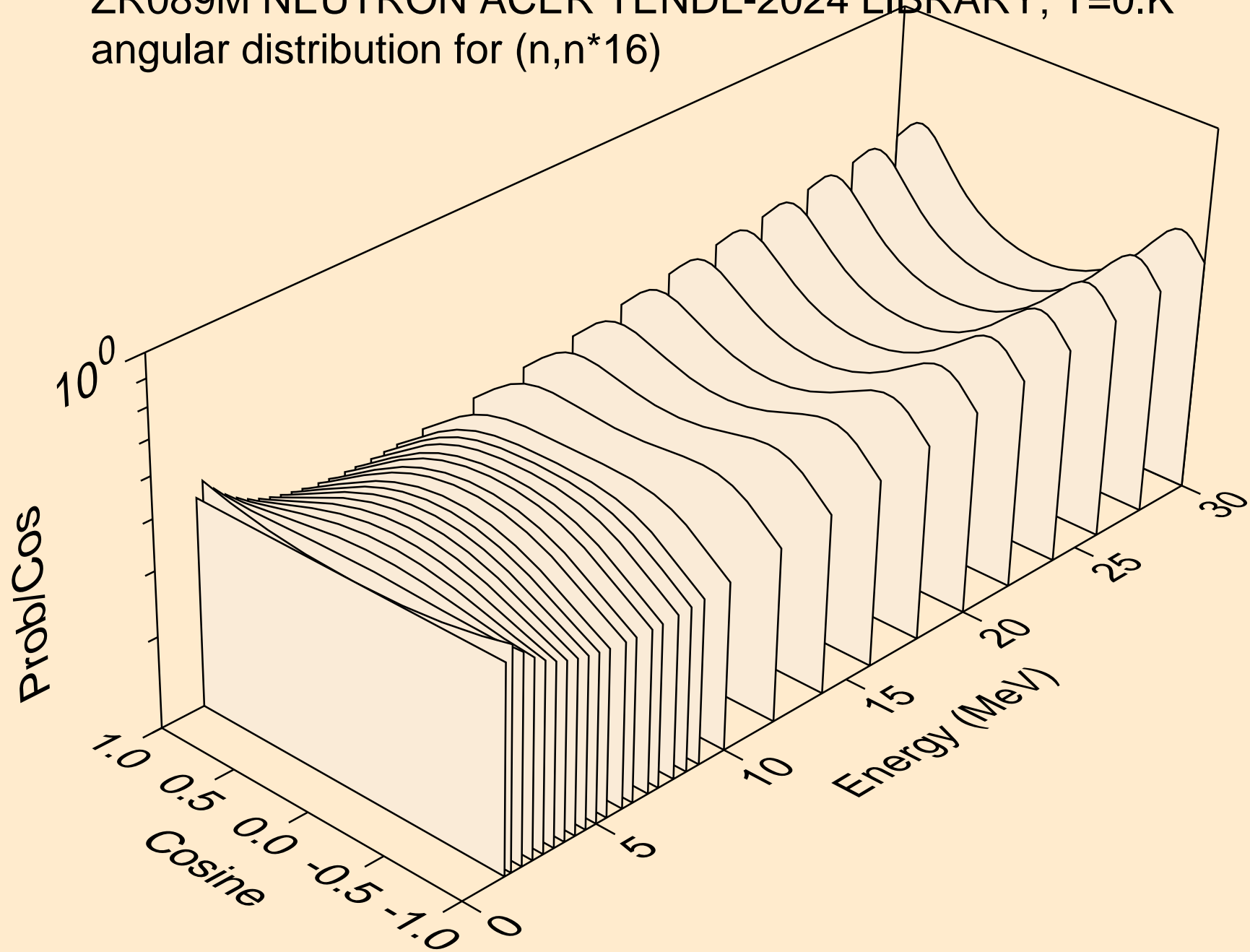
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angular distribution for (n,n\*14)



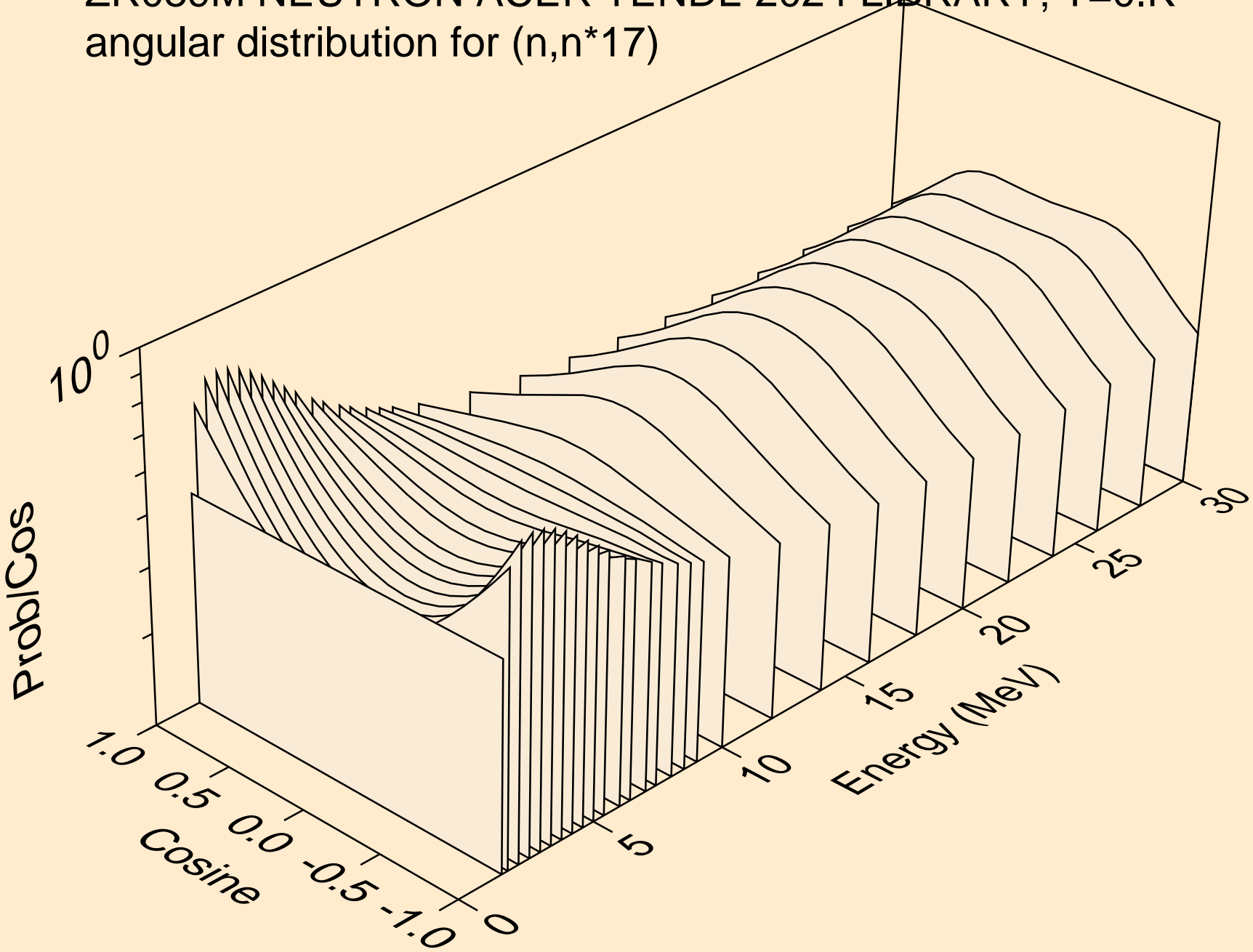
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angular distribution for (n,n\*15)



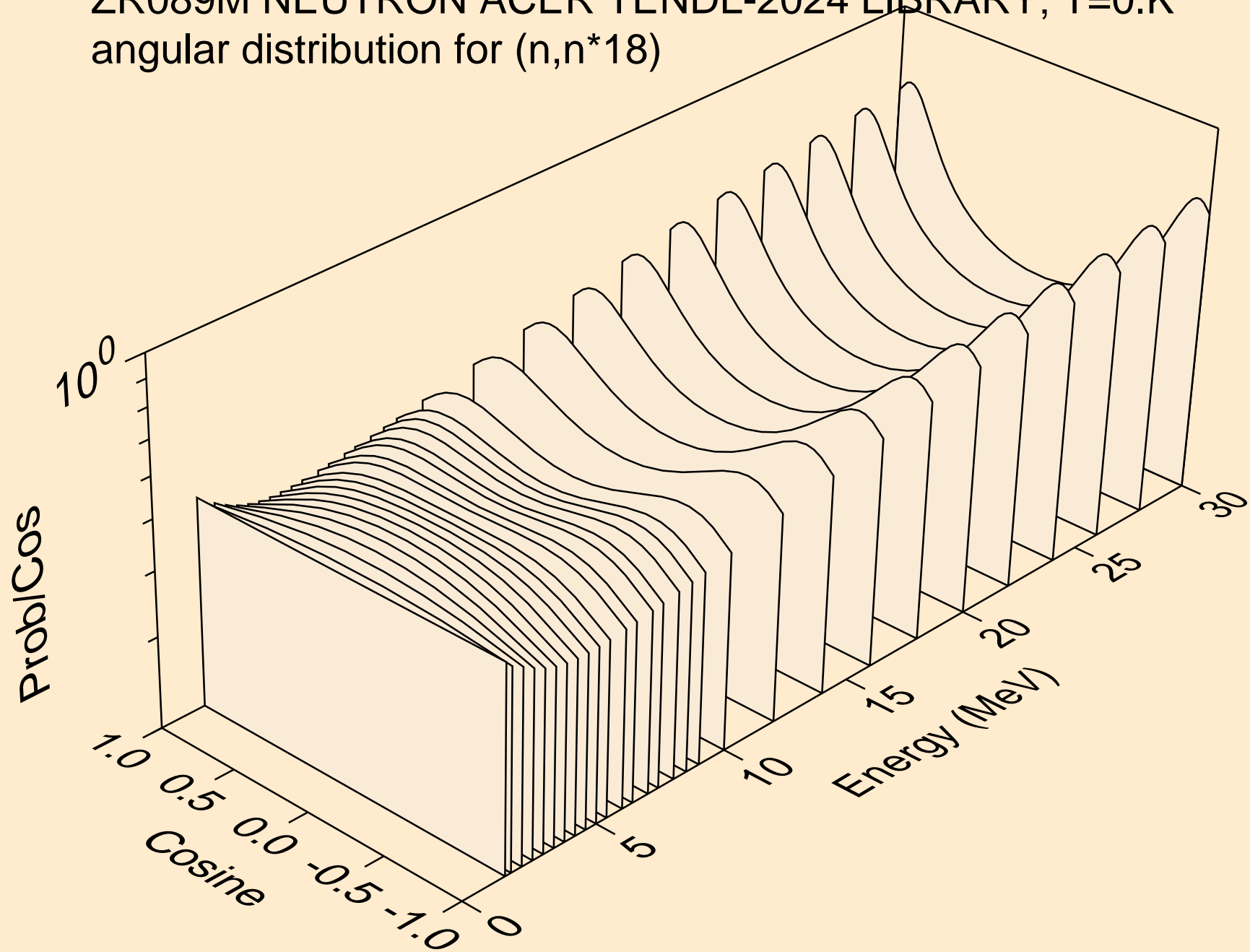
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*17)

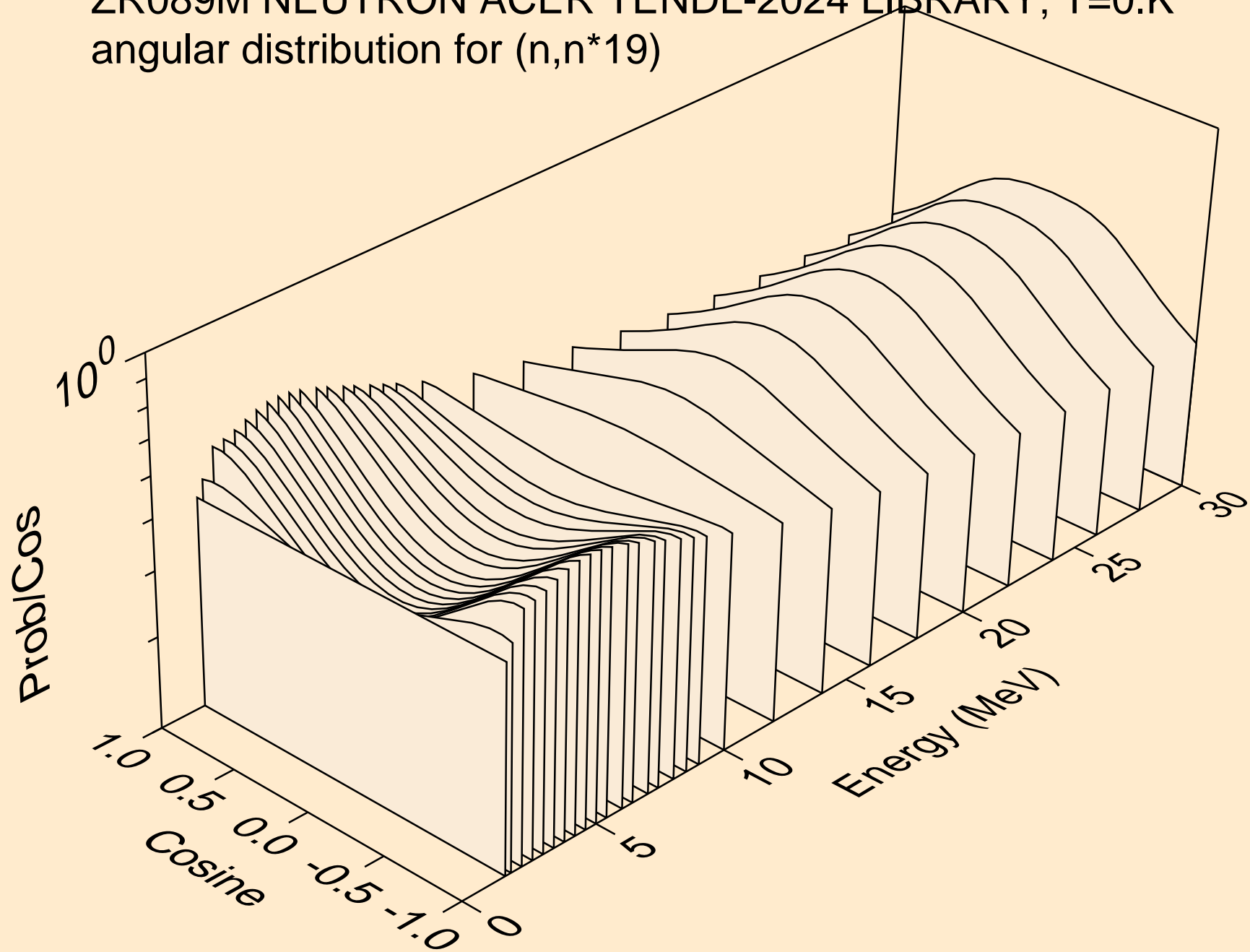


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angular distribution for (n,n\*18)

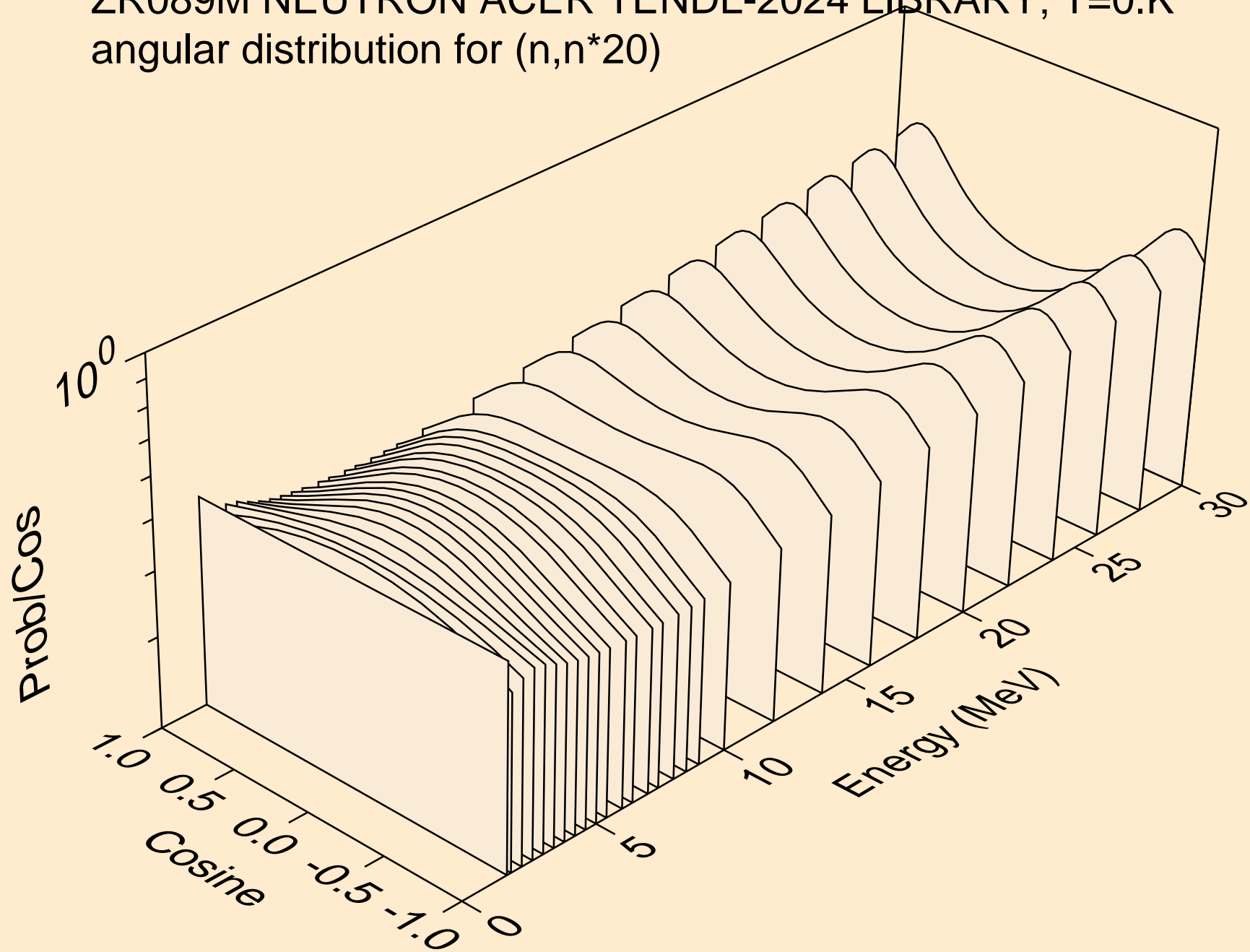




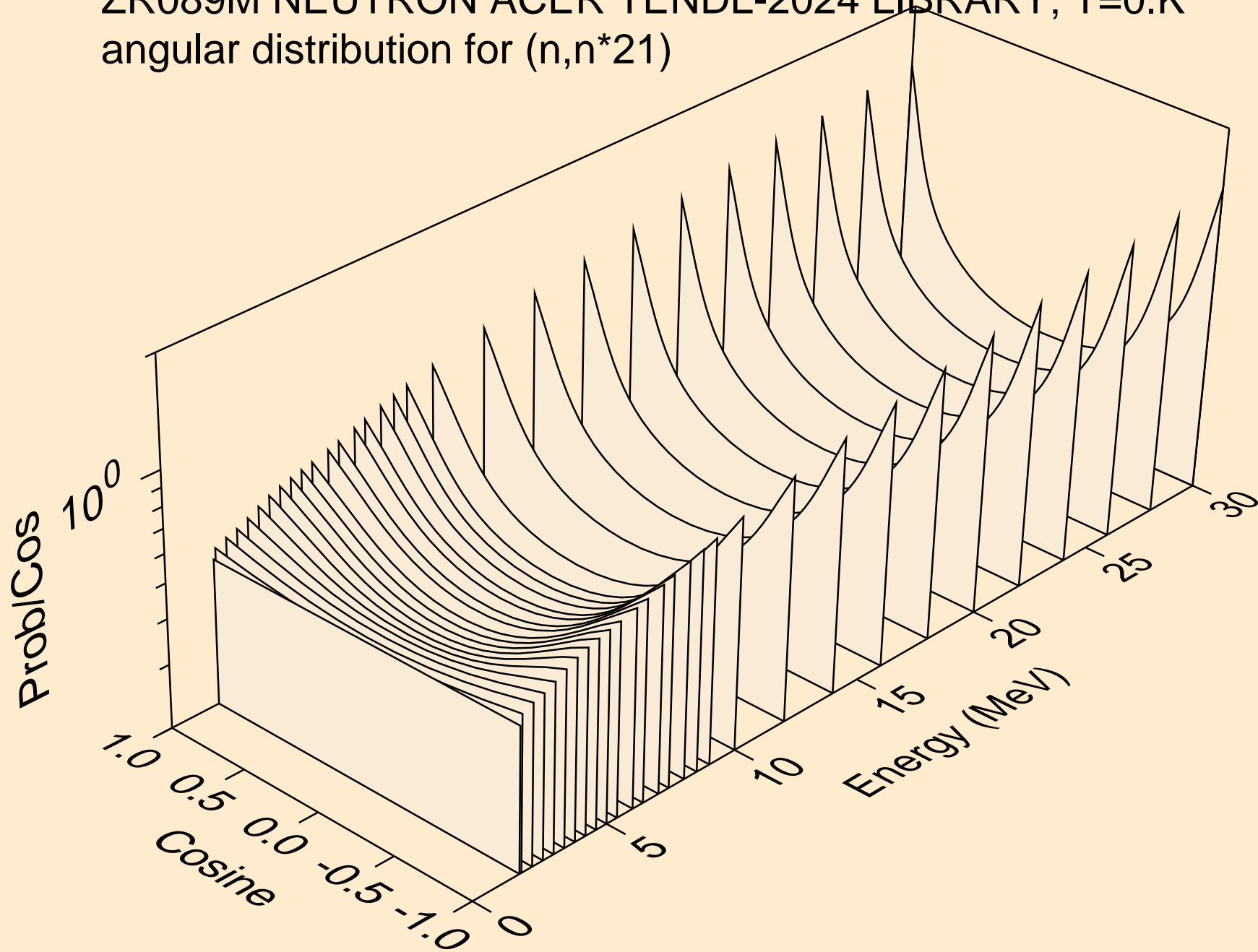
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angular distribution for (n,n\*19)



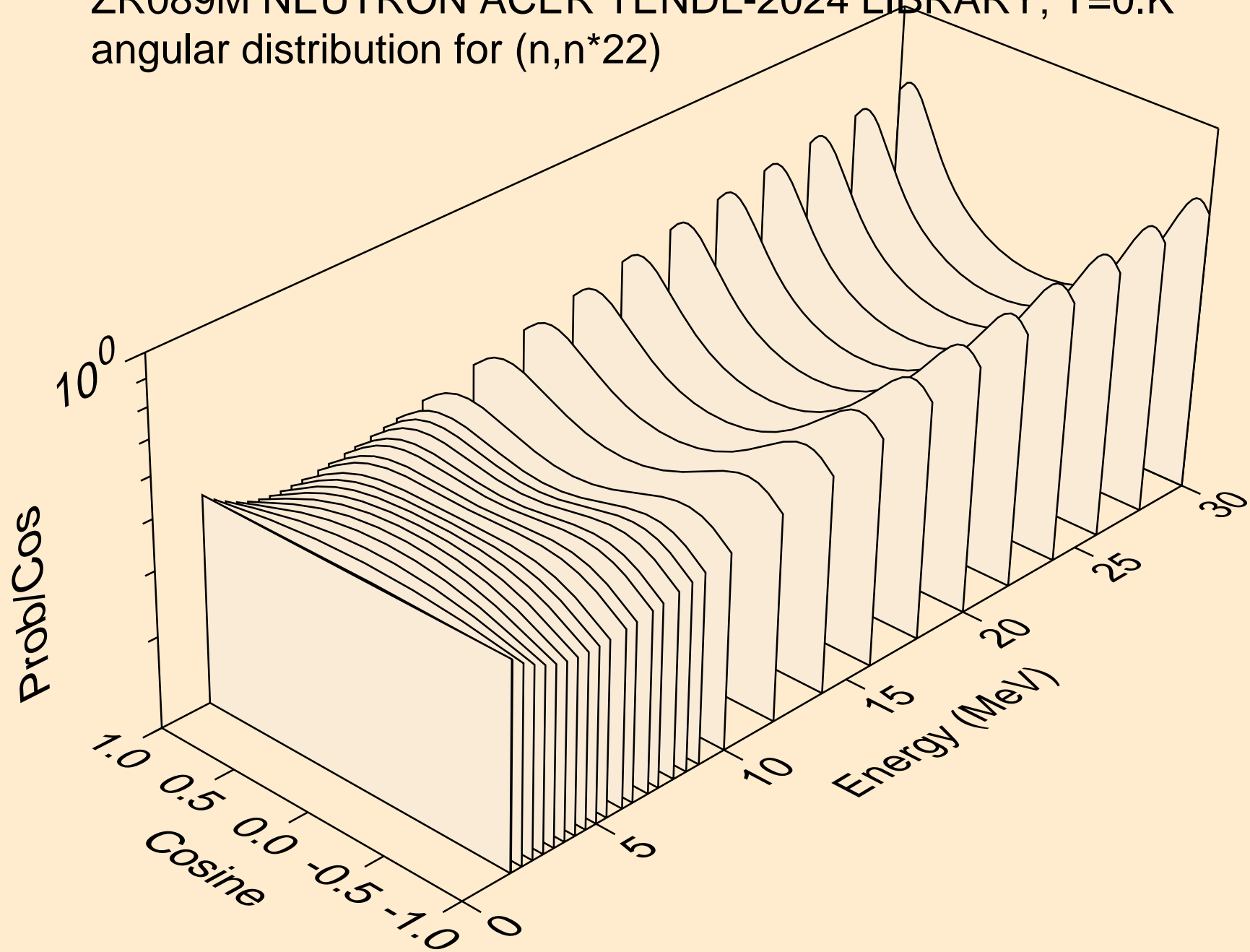
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angular distribution for (n,n\*20)



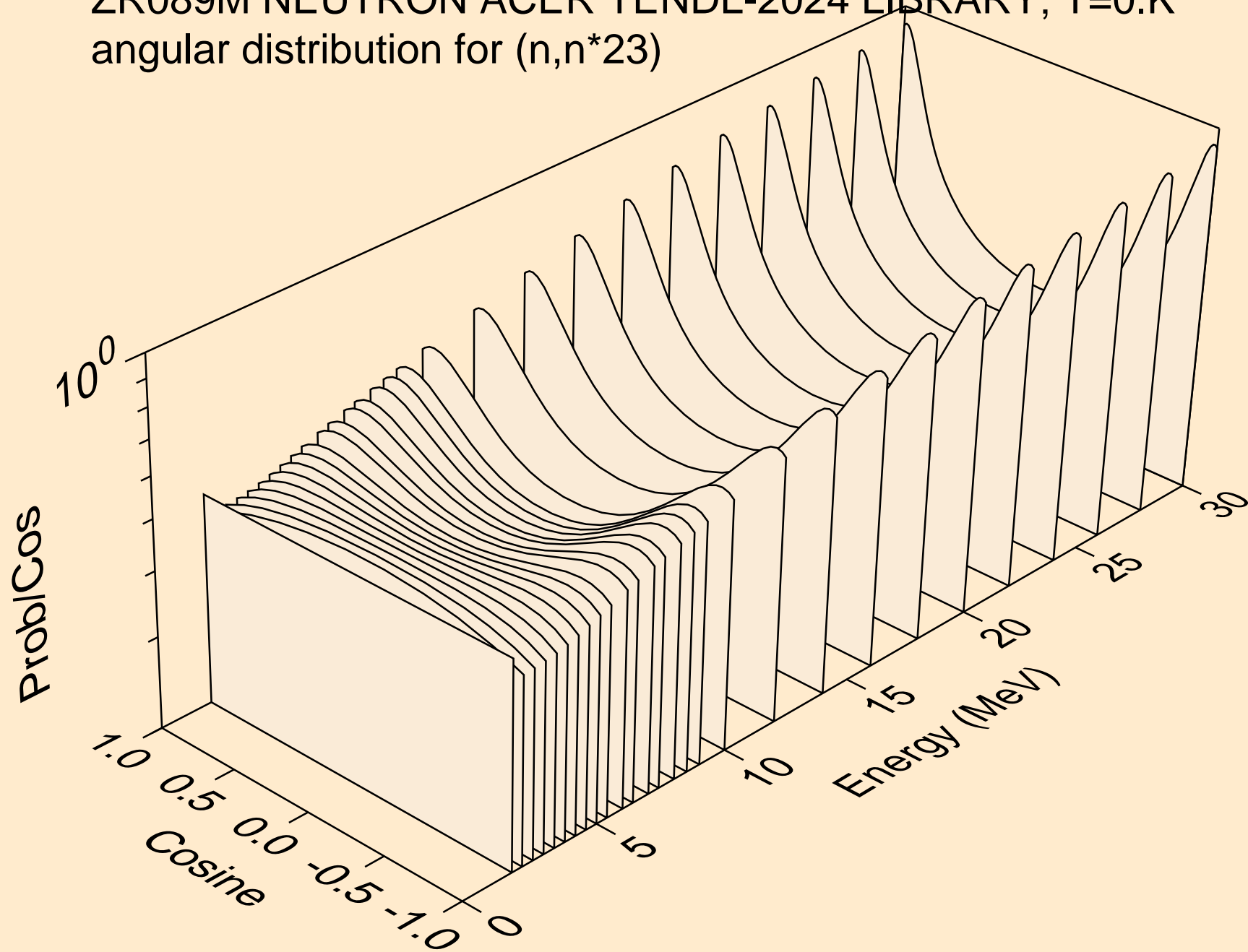
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angular distribution for (n,n\*21)



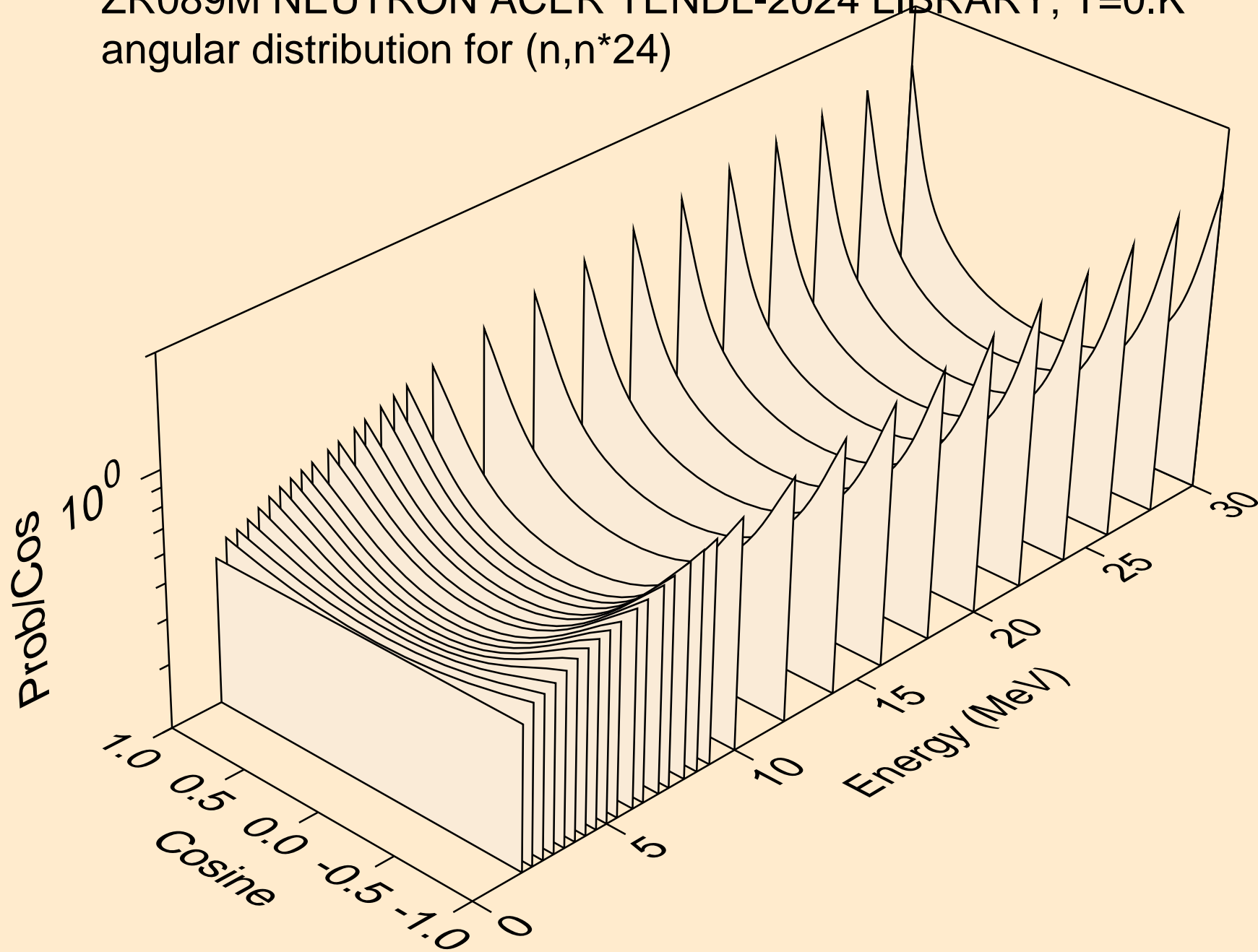
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angular distribution for (n,n\*22)



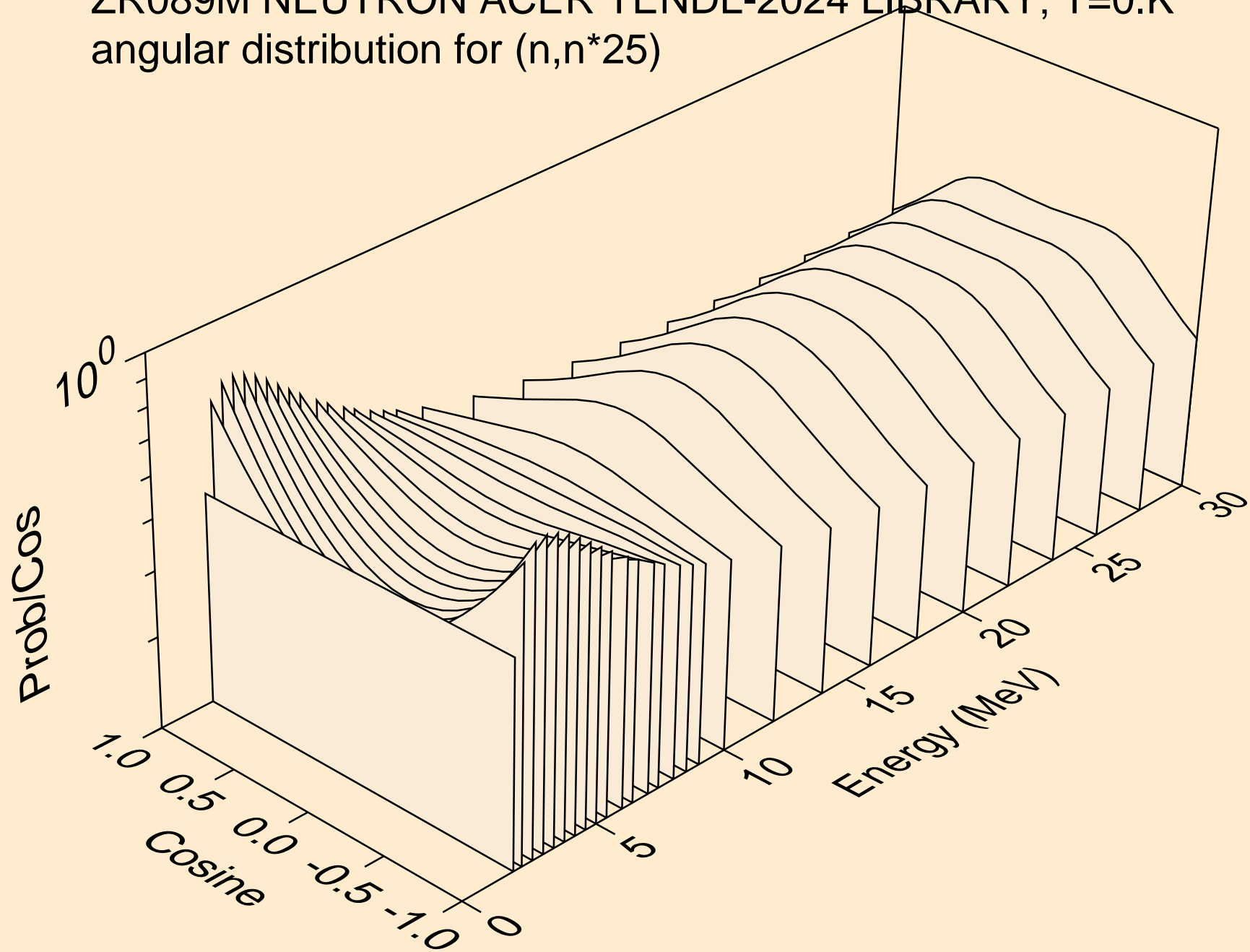
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angular distribution for (n,n\*23)



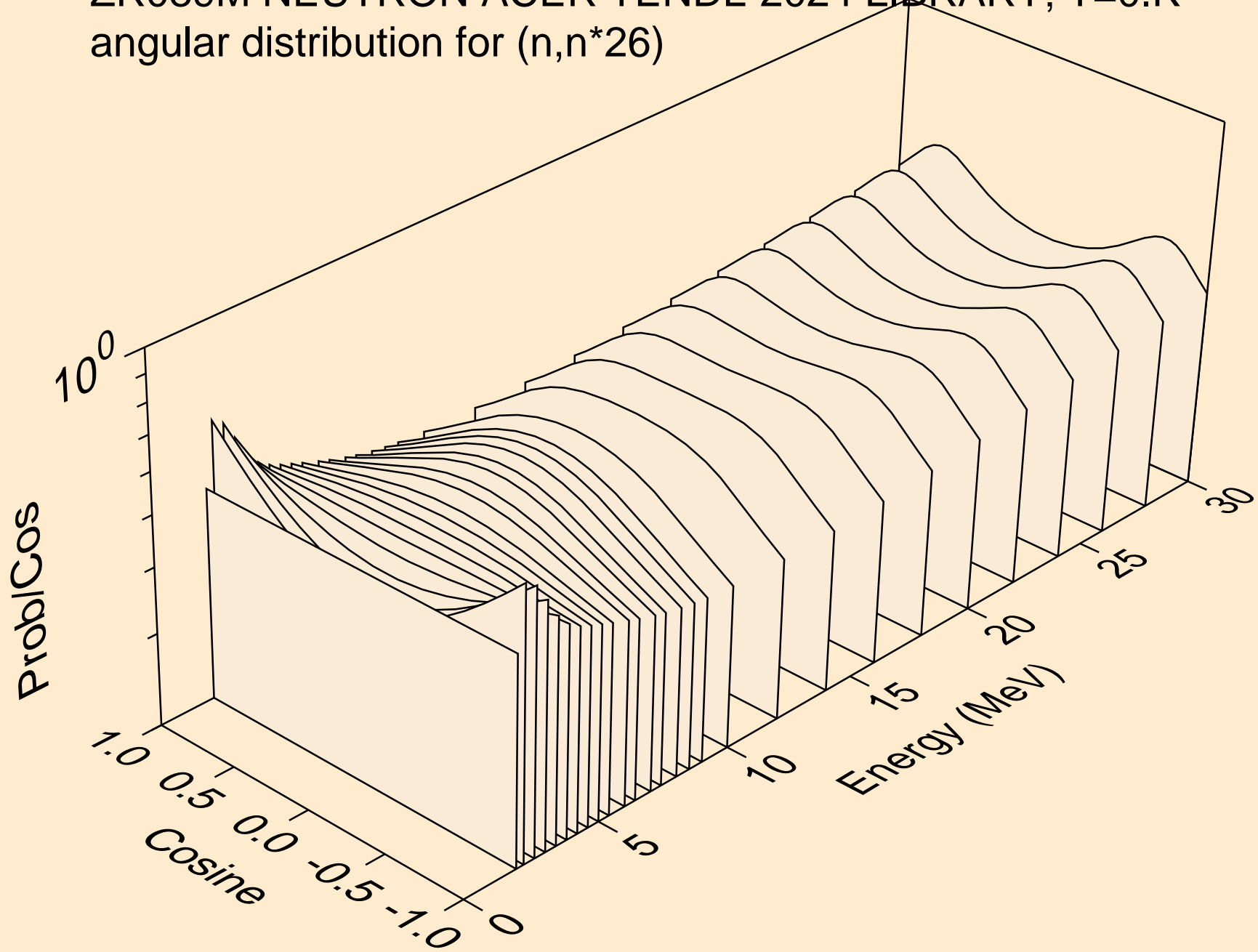
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angular distribution for (n,n\*24)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for (n,n\*25)

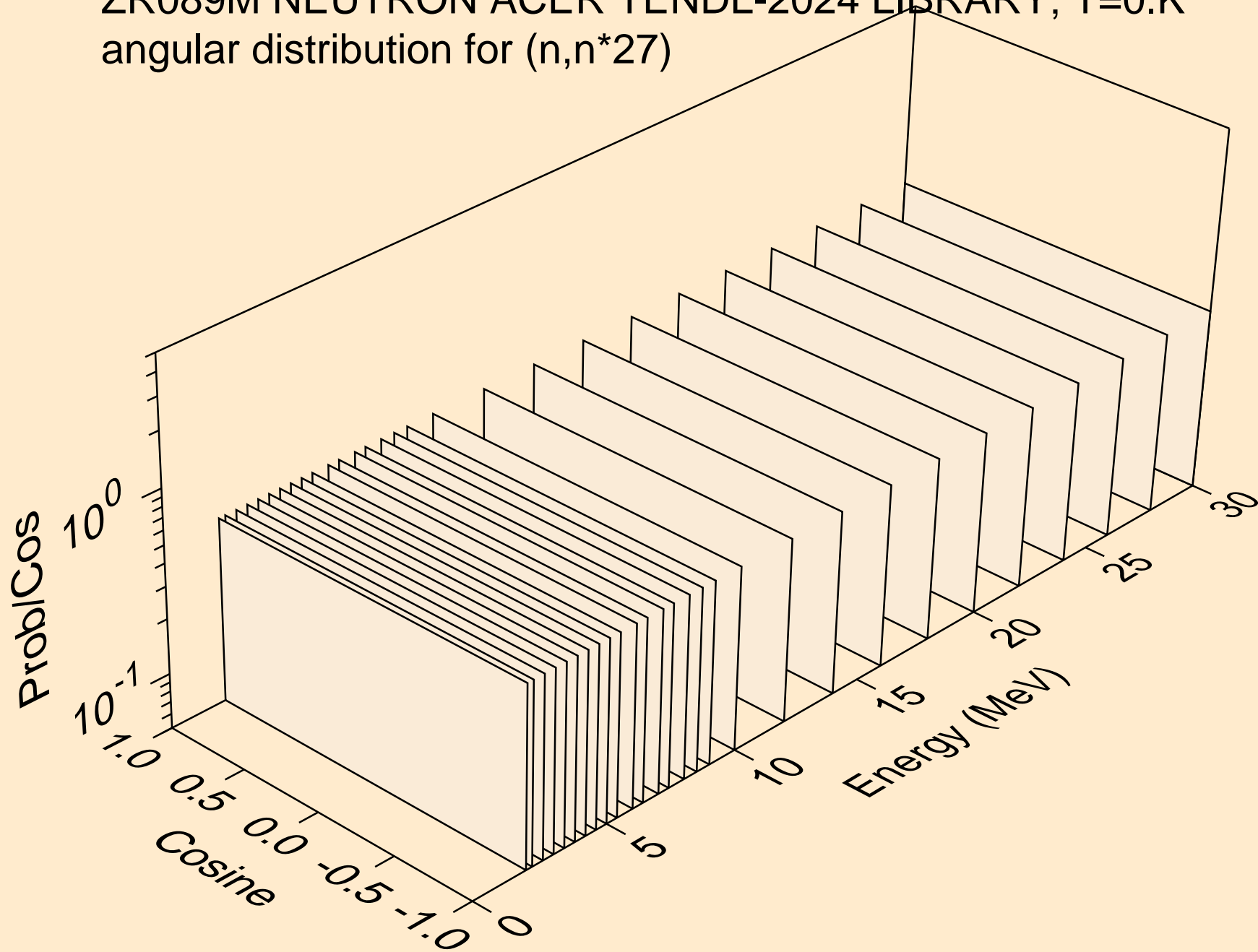


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angular distribution for (n,n\*26)

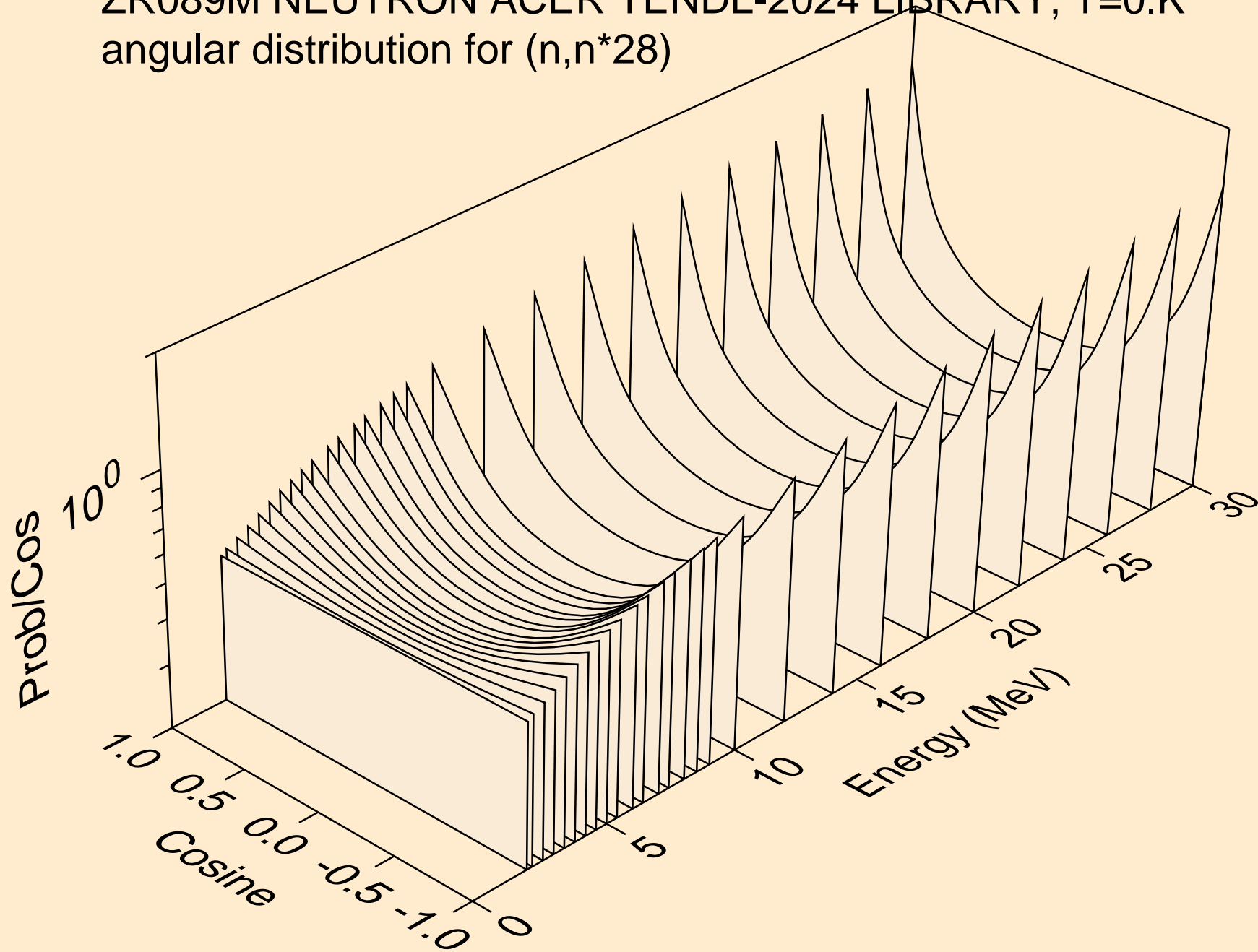




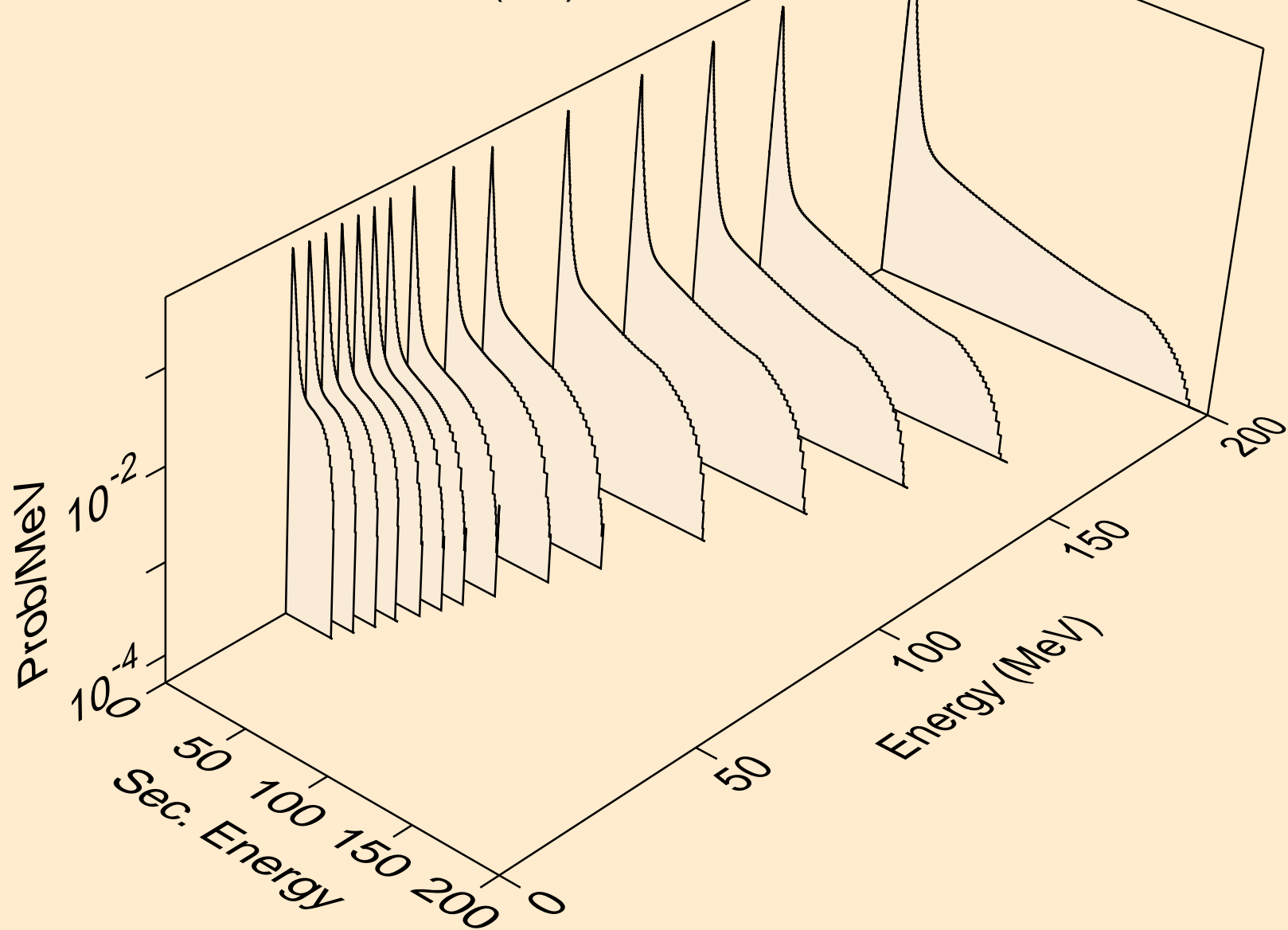
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angular distribution for (n,n\*27)



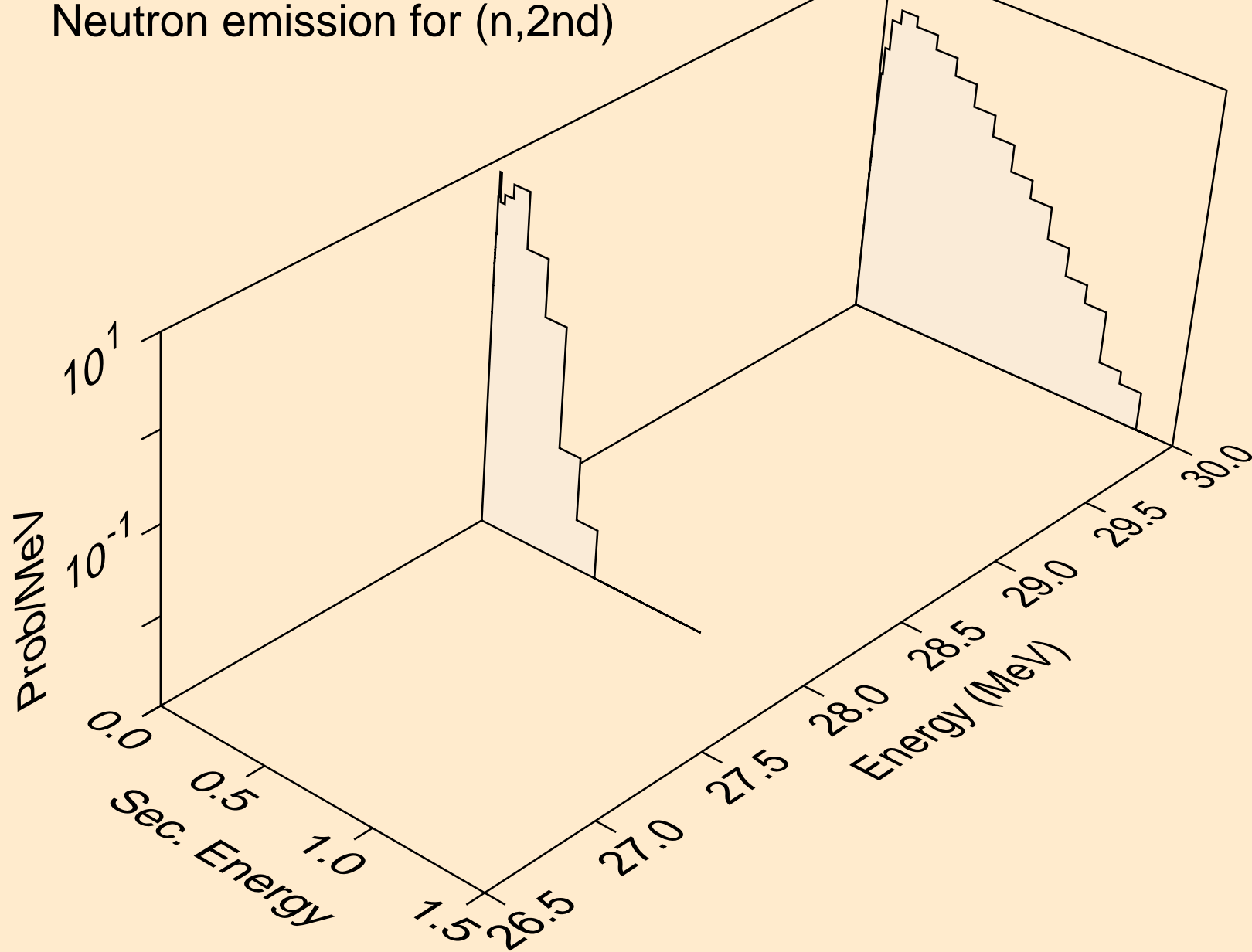
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angular distribution for (n,n\*28)



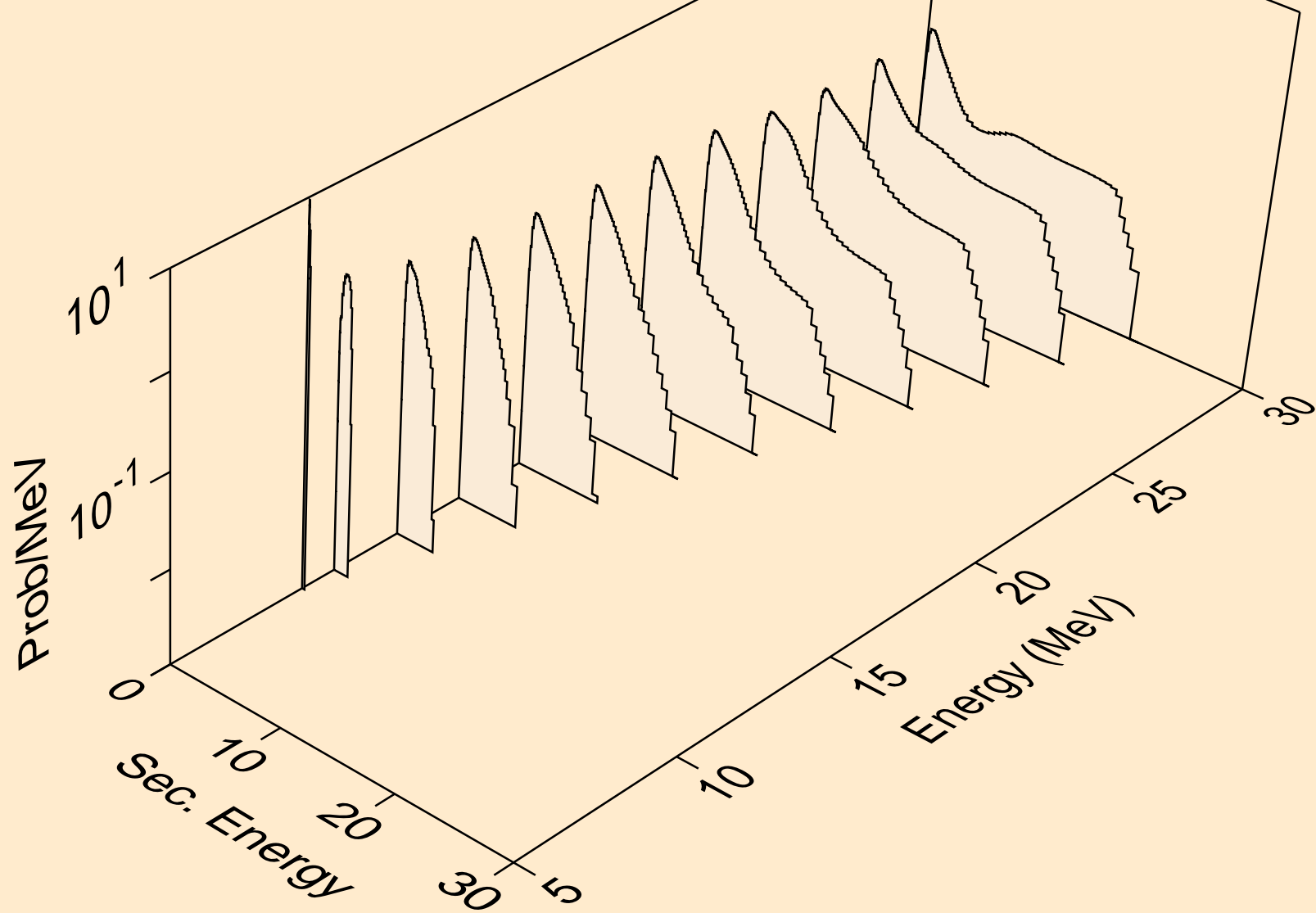
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Neutron emission for (n,x)



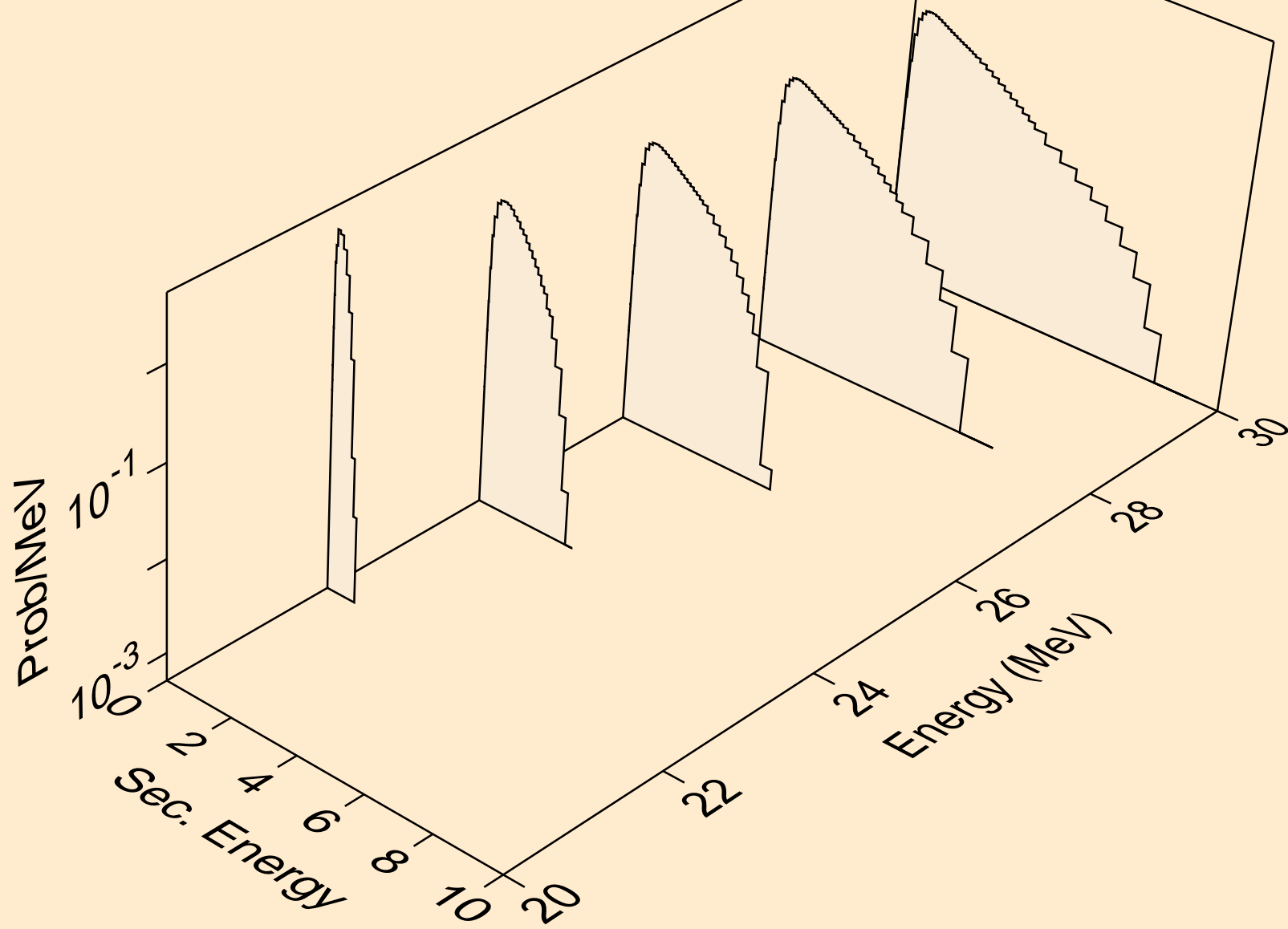
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Neutron emission for (n,2nd)



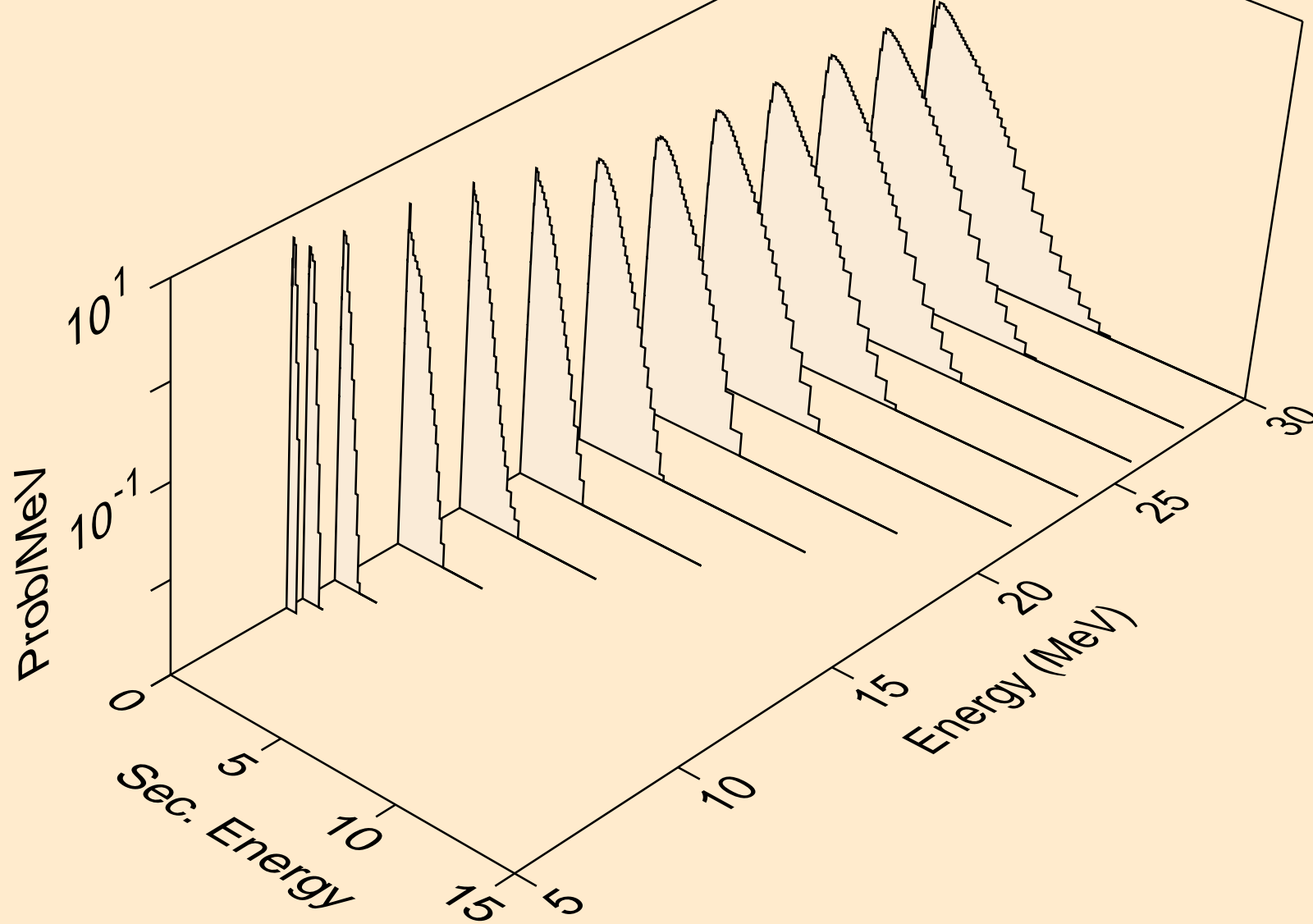
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Neutron emission for (n,2n)



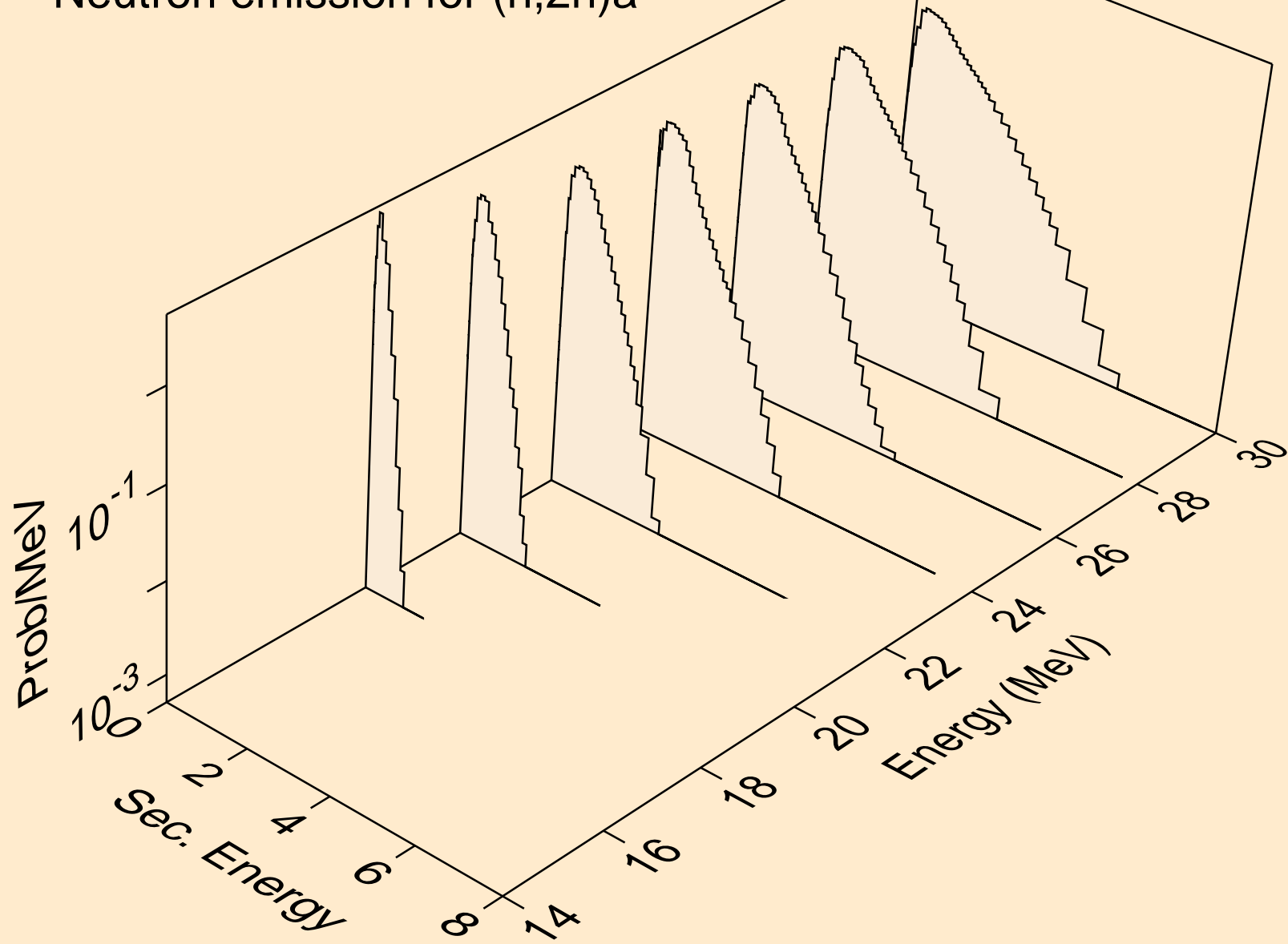
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,3n)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

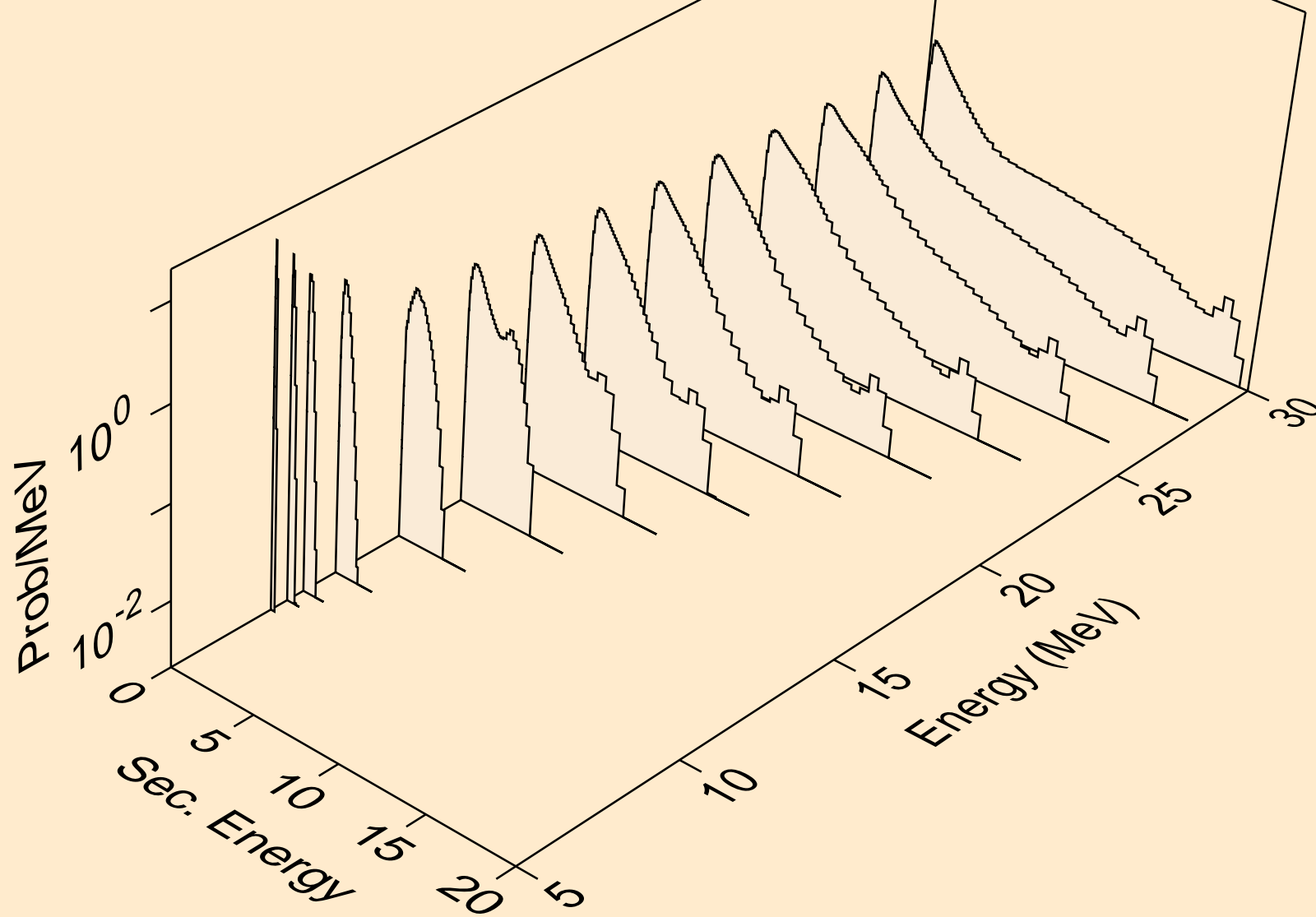


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Neutron emission for (n,2n)a

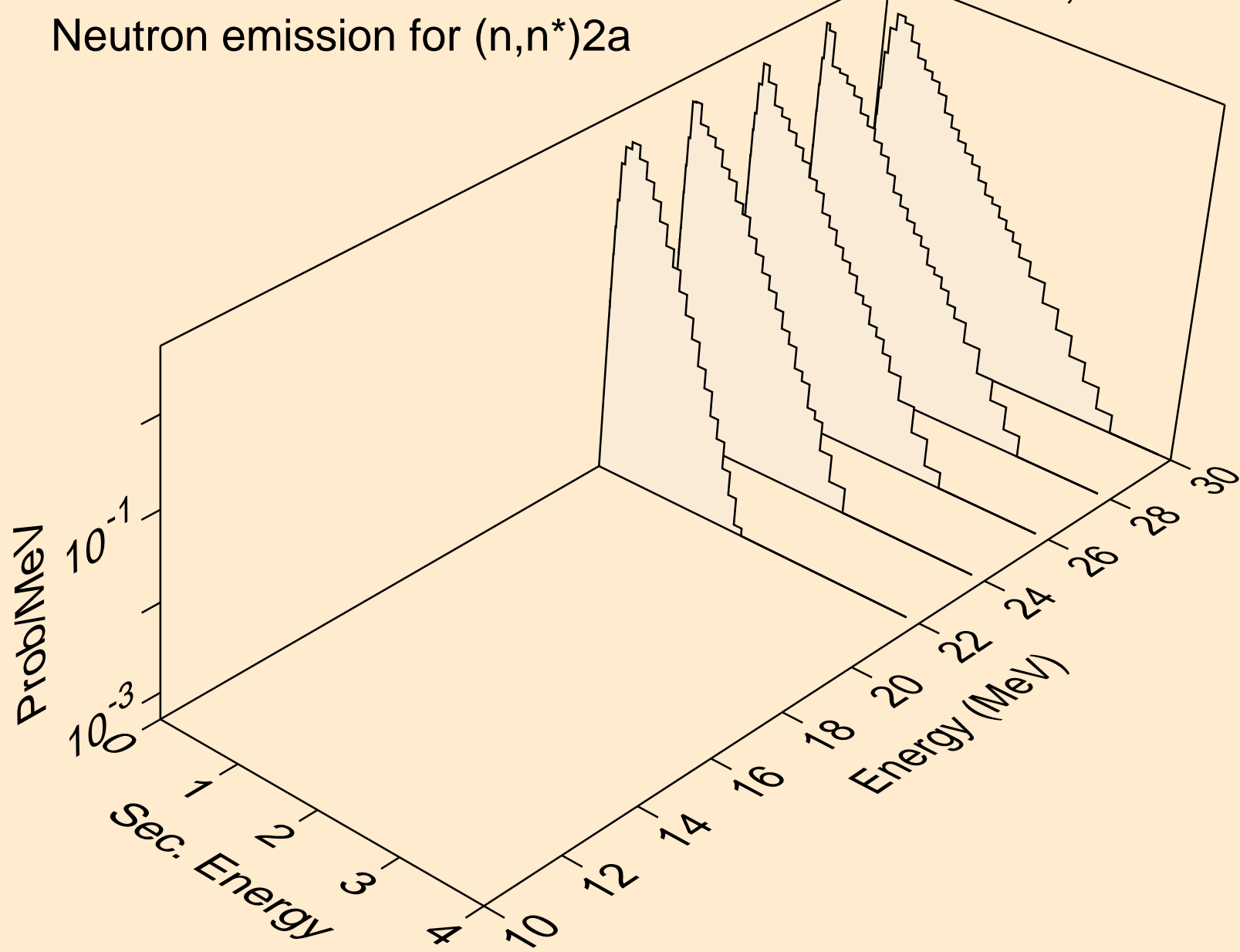




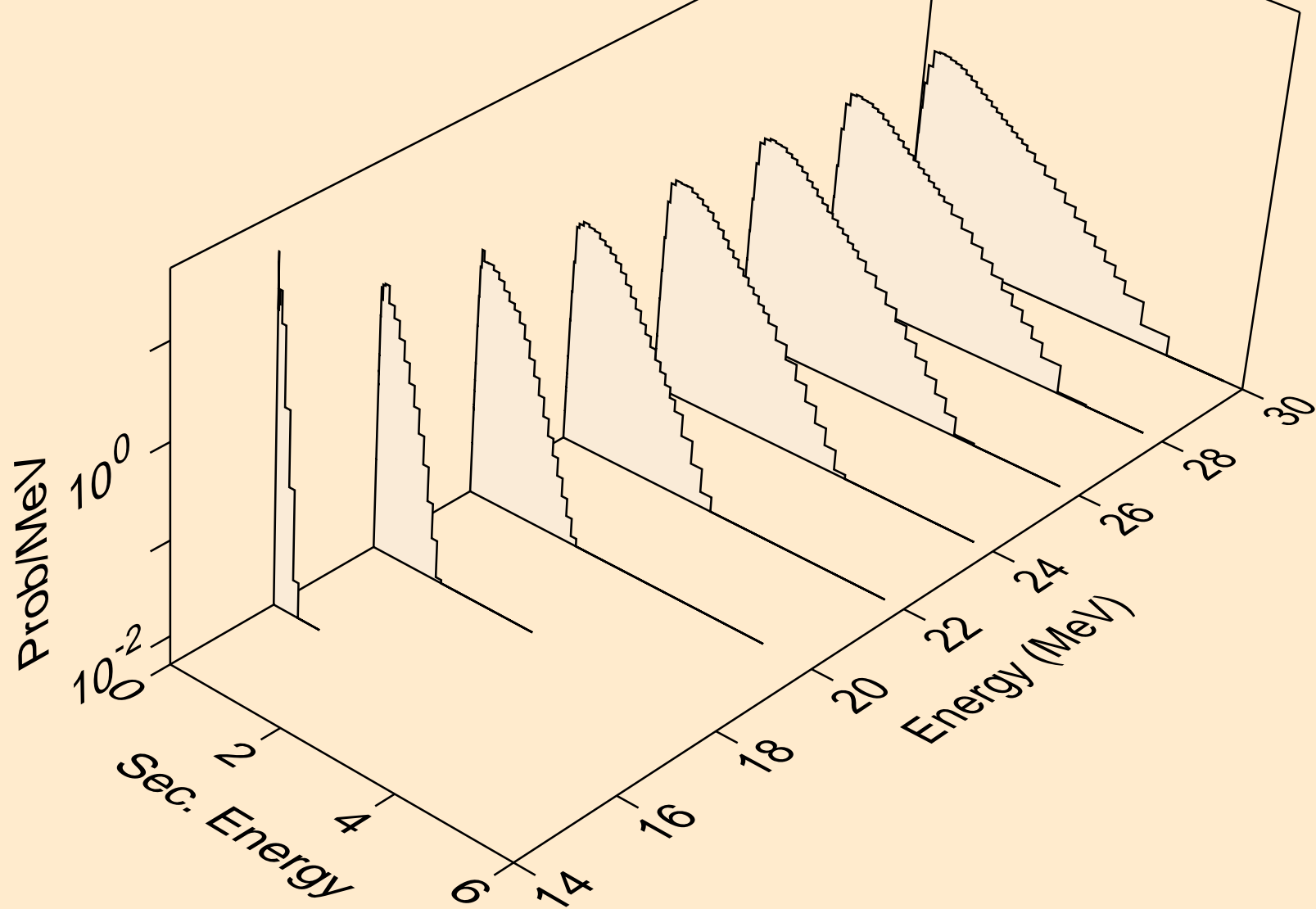
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Neutron emission for (n,n\*)p



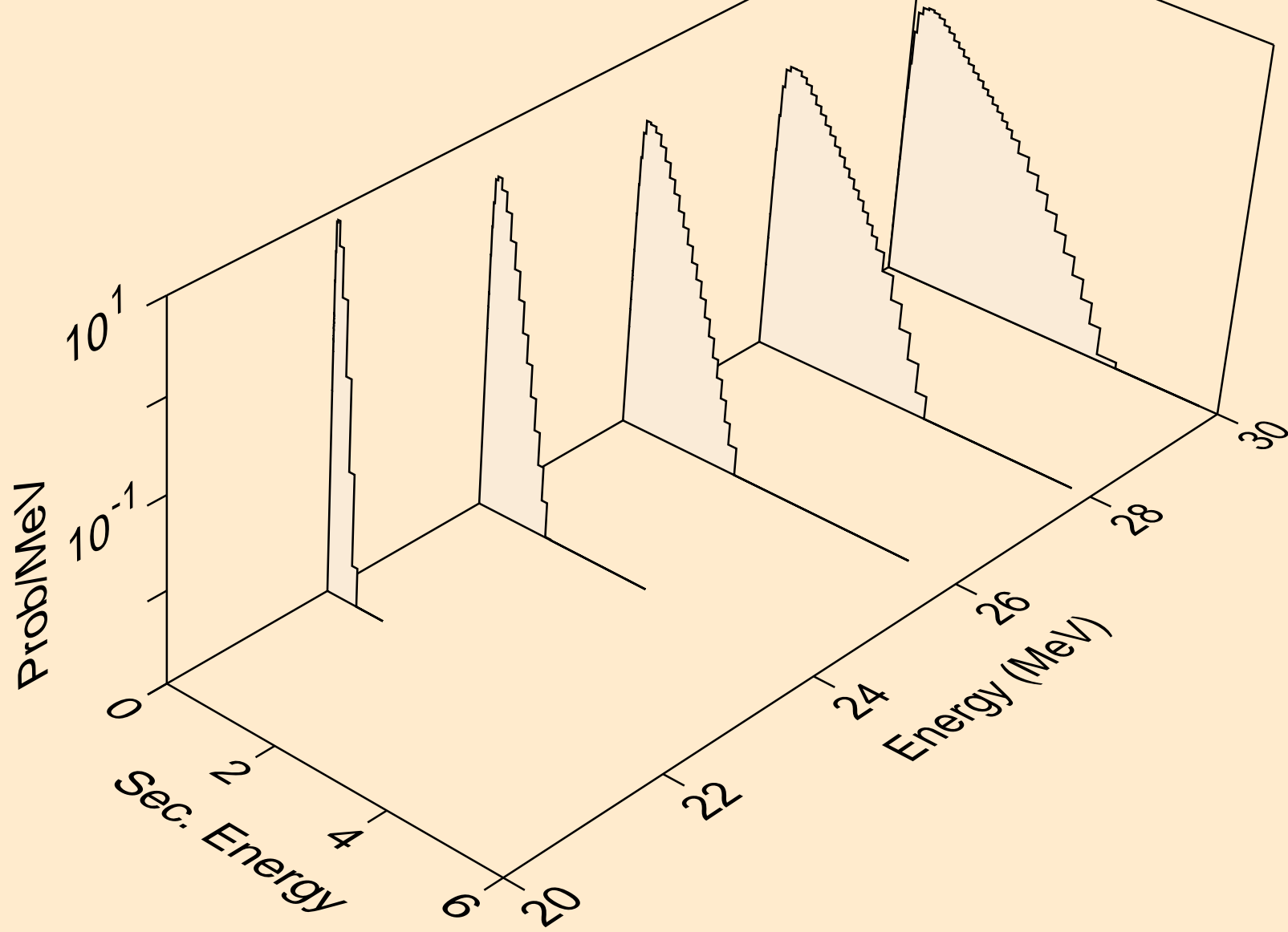
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Neutron emission for (n,n\*)2a



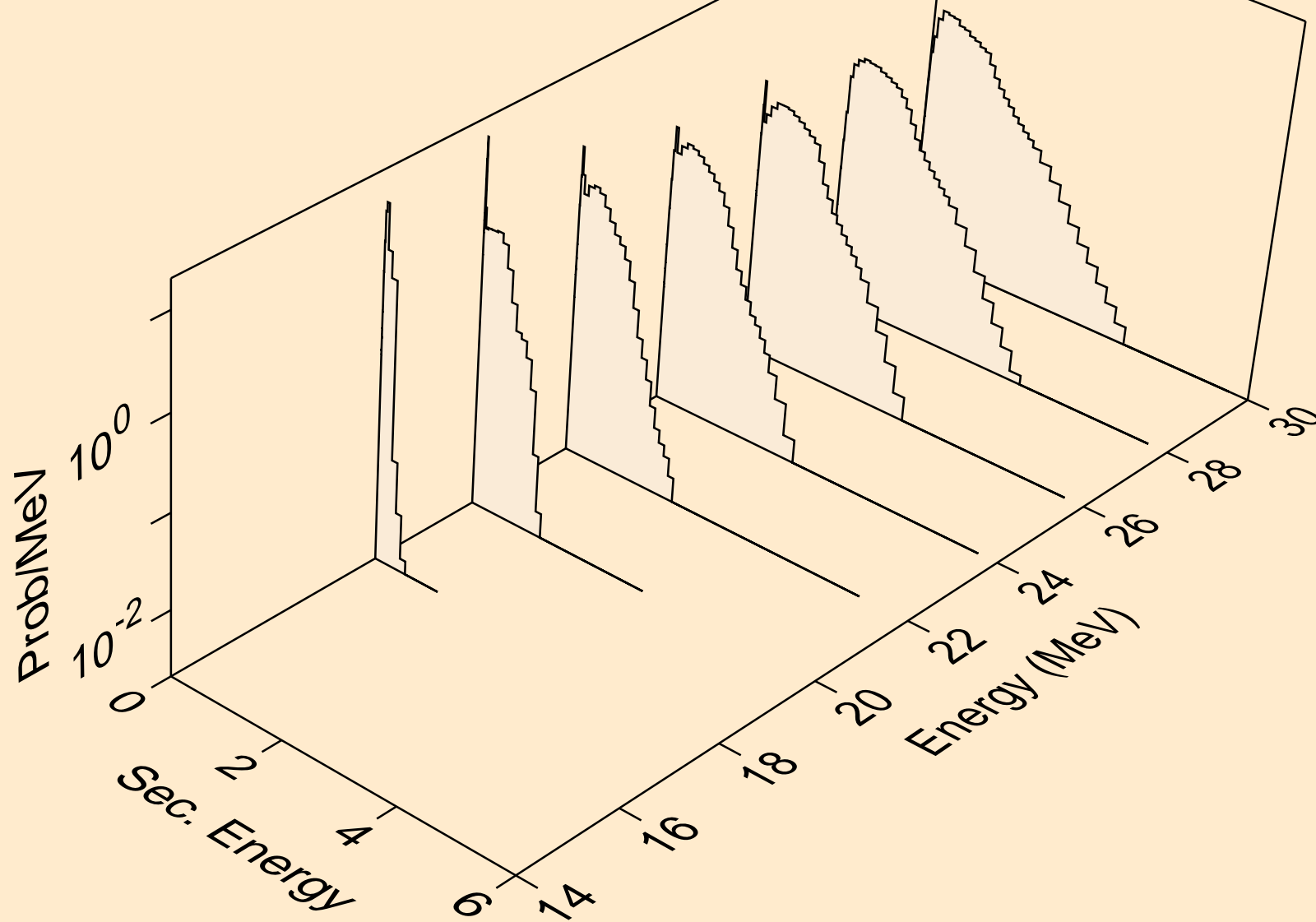
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Neutron emission for (n,n\*)d



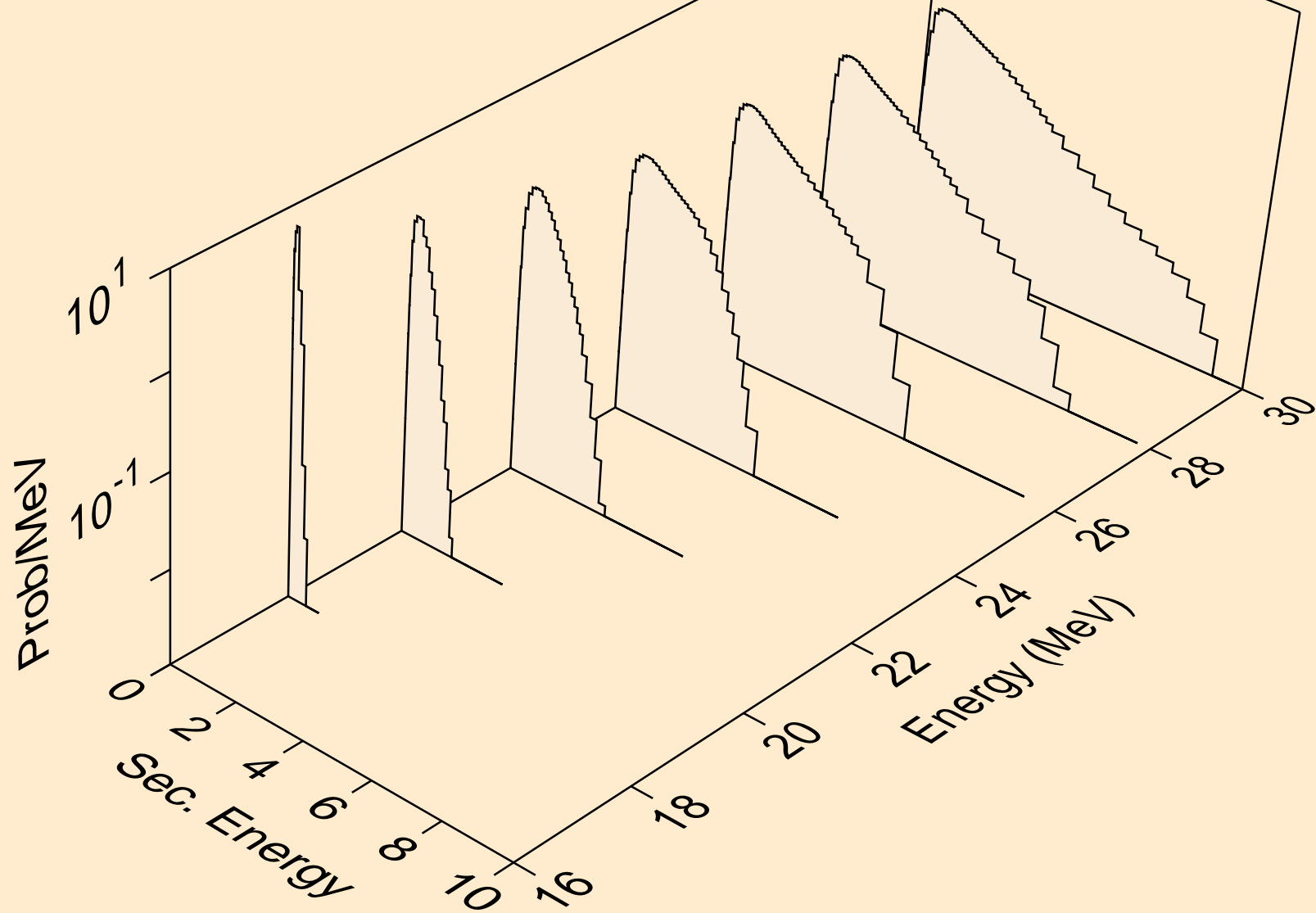
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Neutron emission for (n,n\*)t



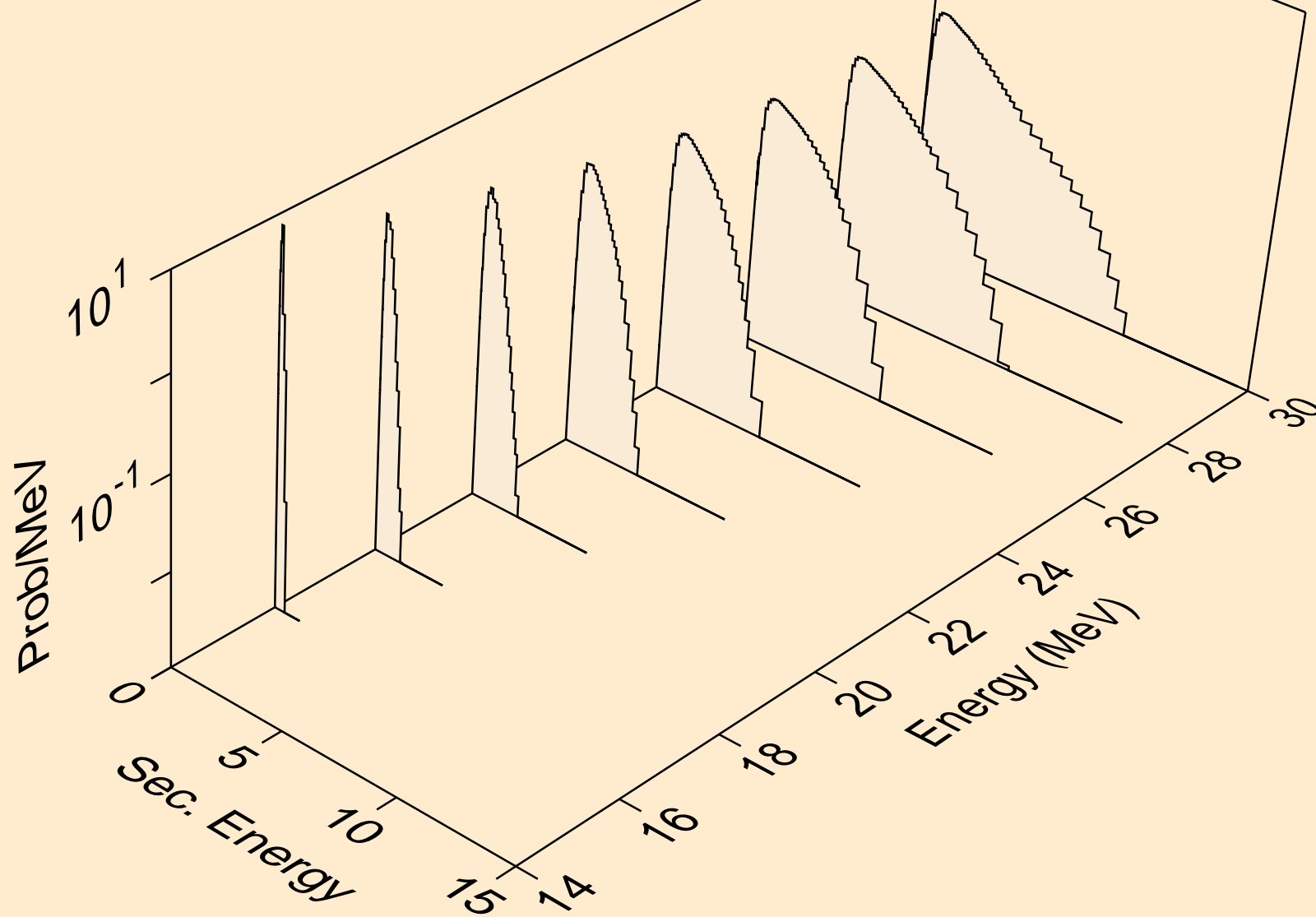
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Neutron emission for (n,n\*)he3



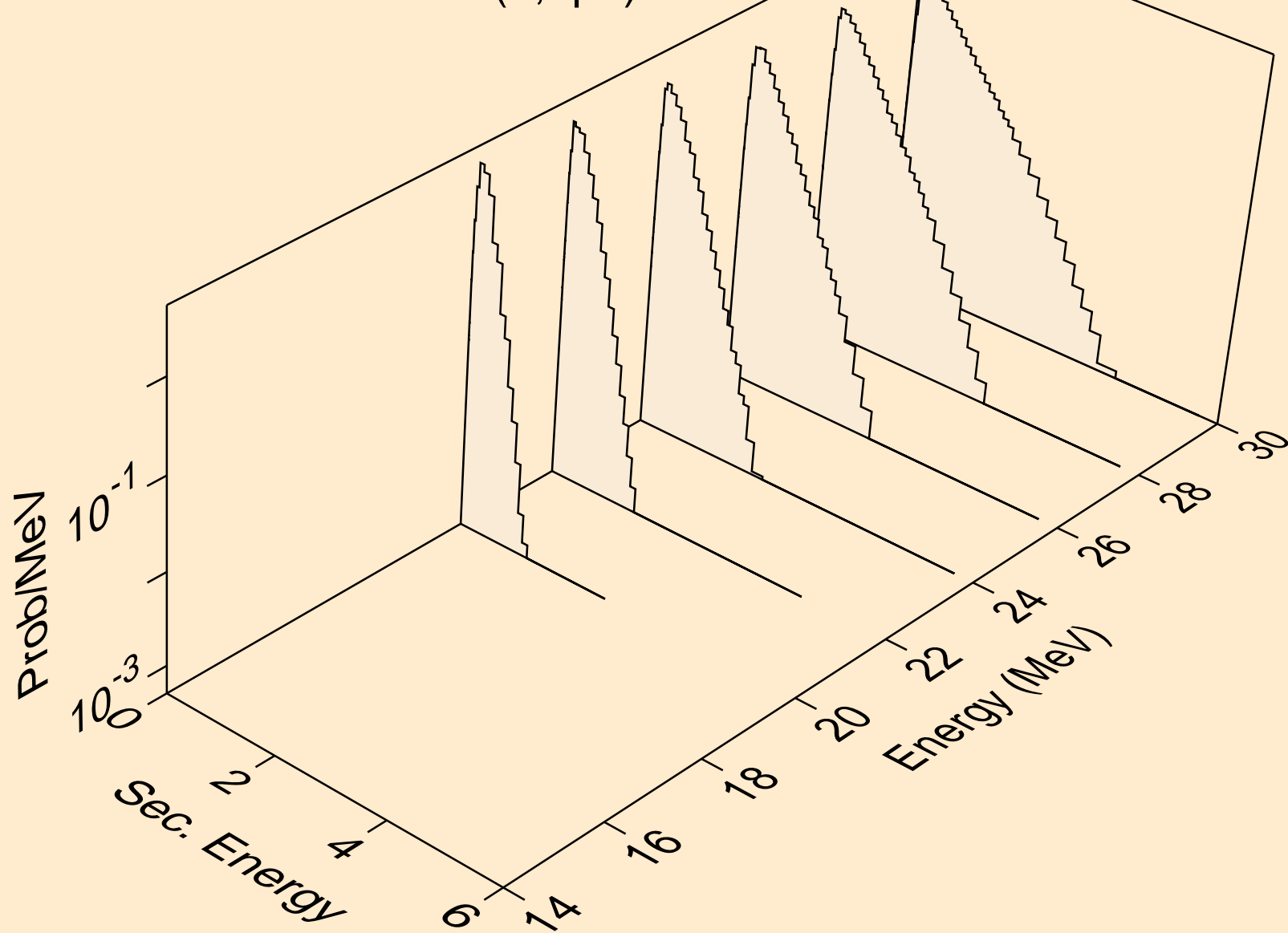
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,2np)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

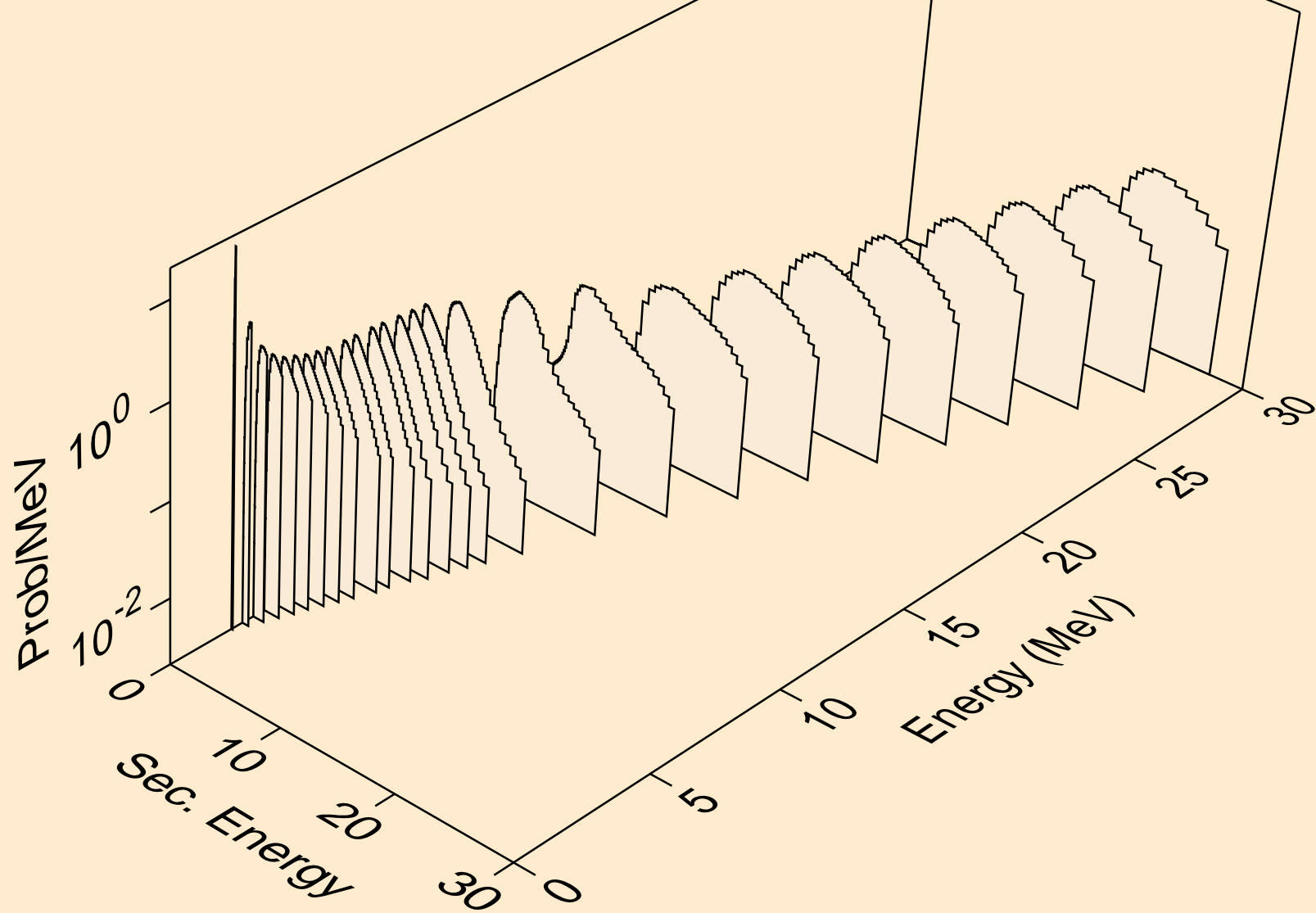


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Neutron emission for (n,npa)

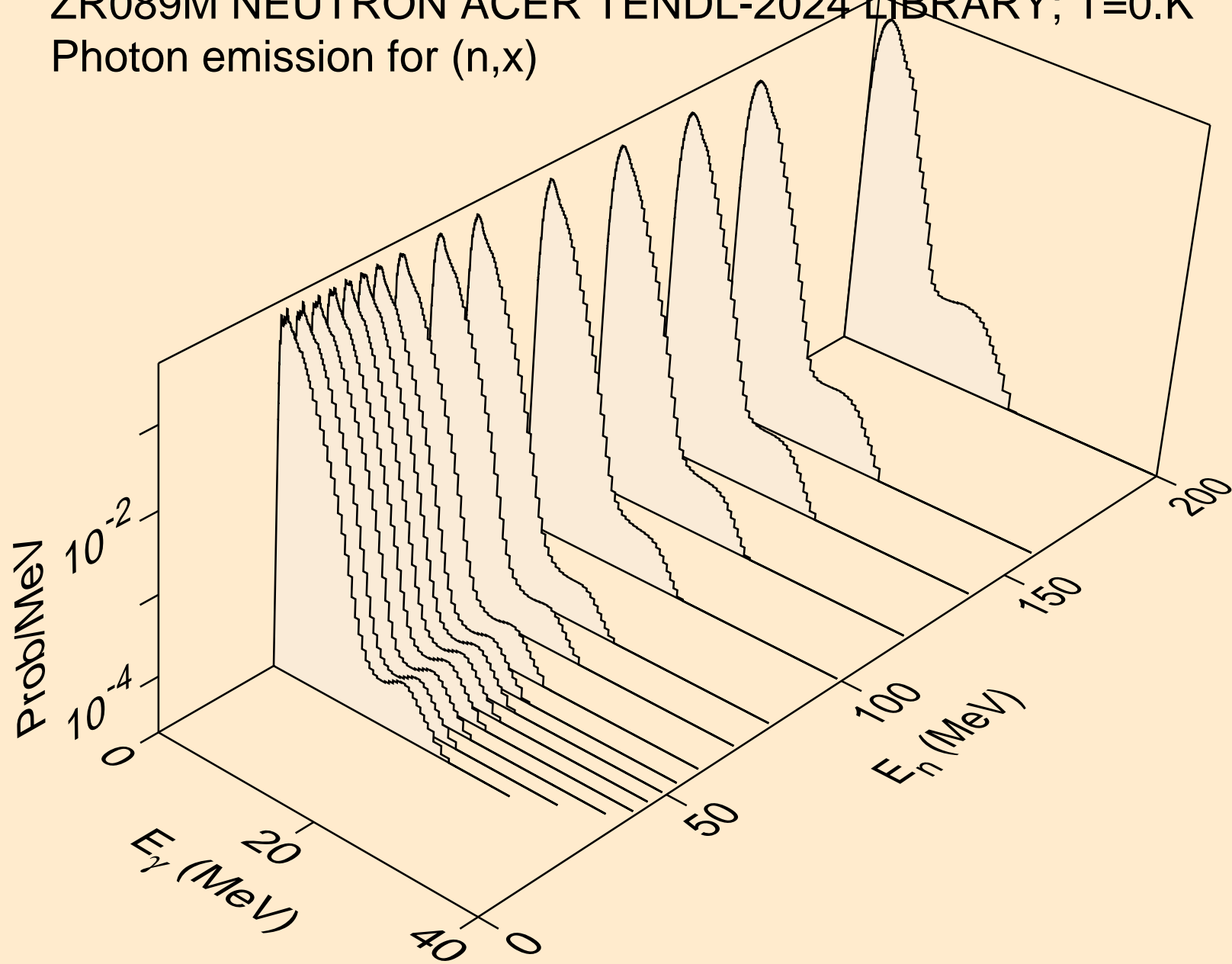




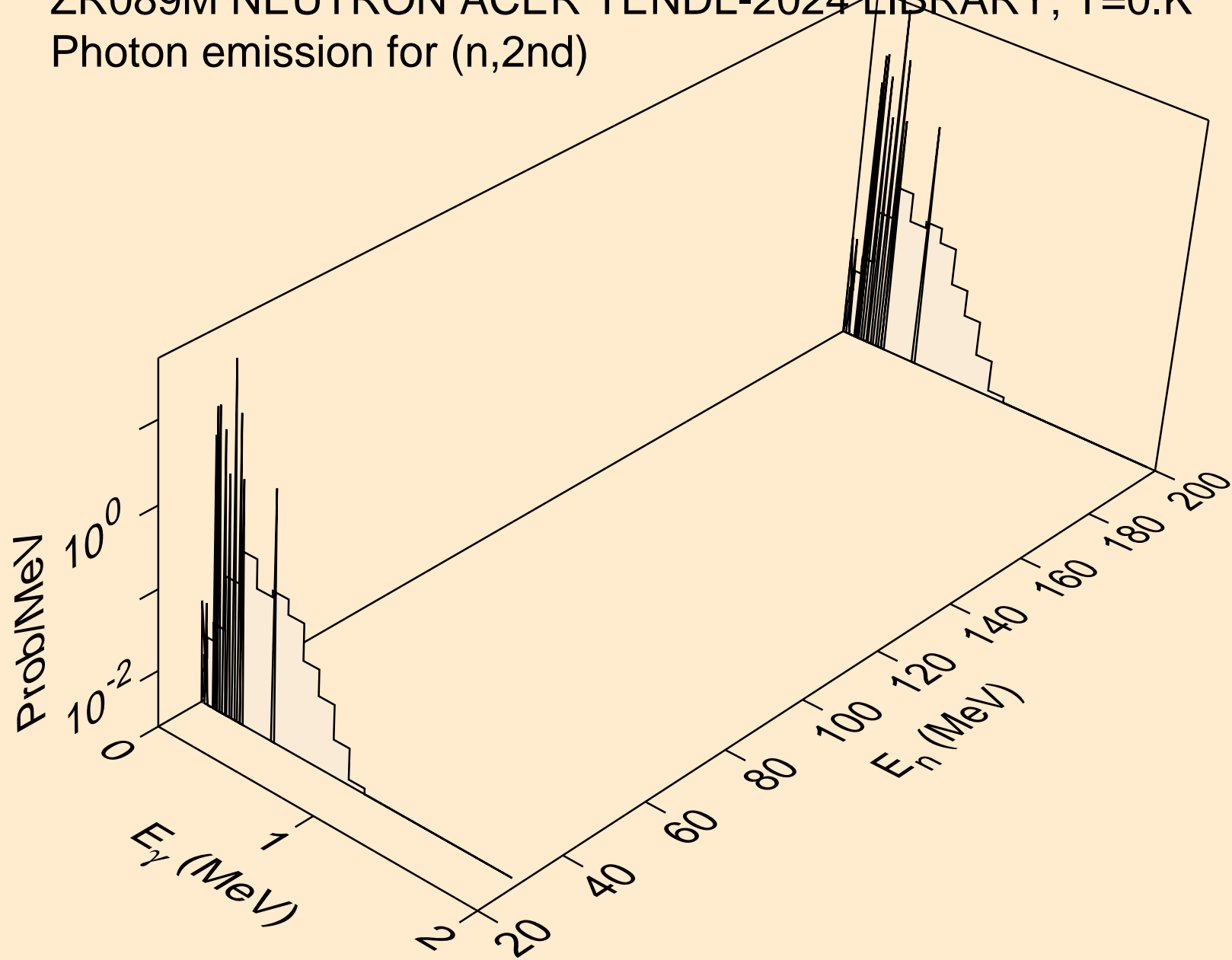
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Neutron emission for (n,n\*c)



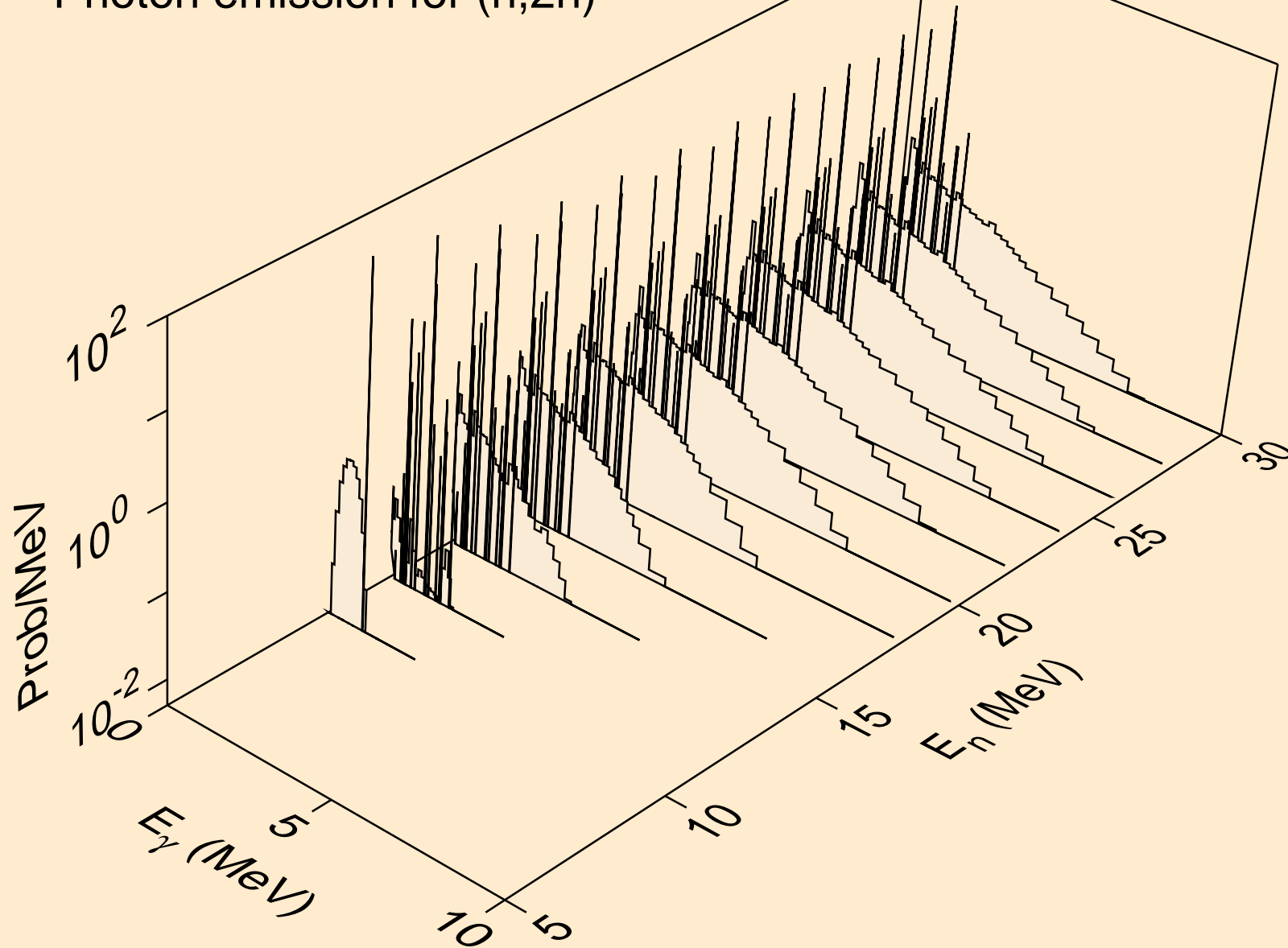
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Photon emission for (n,x)



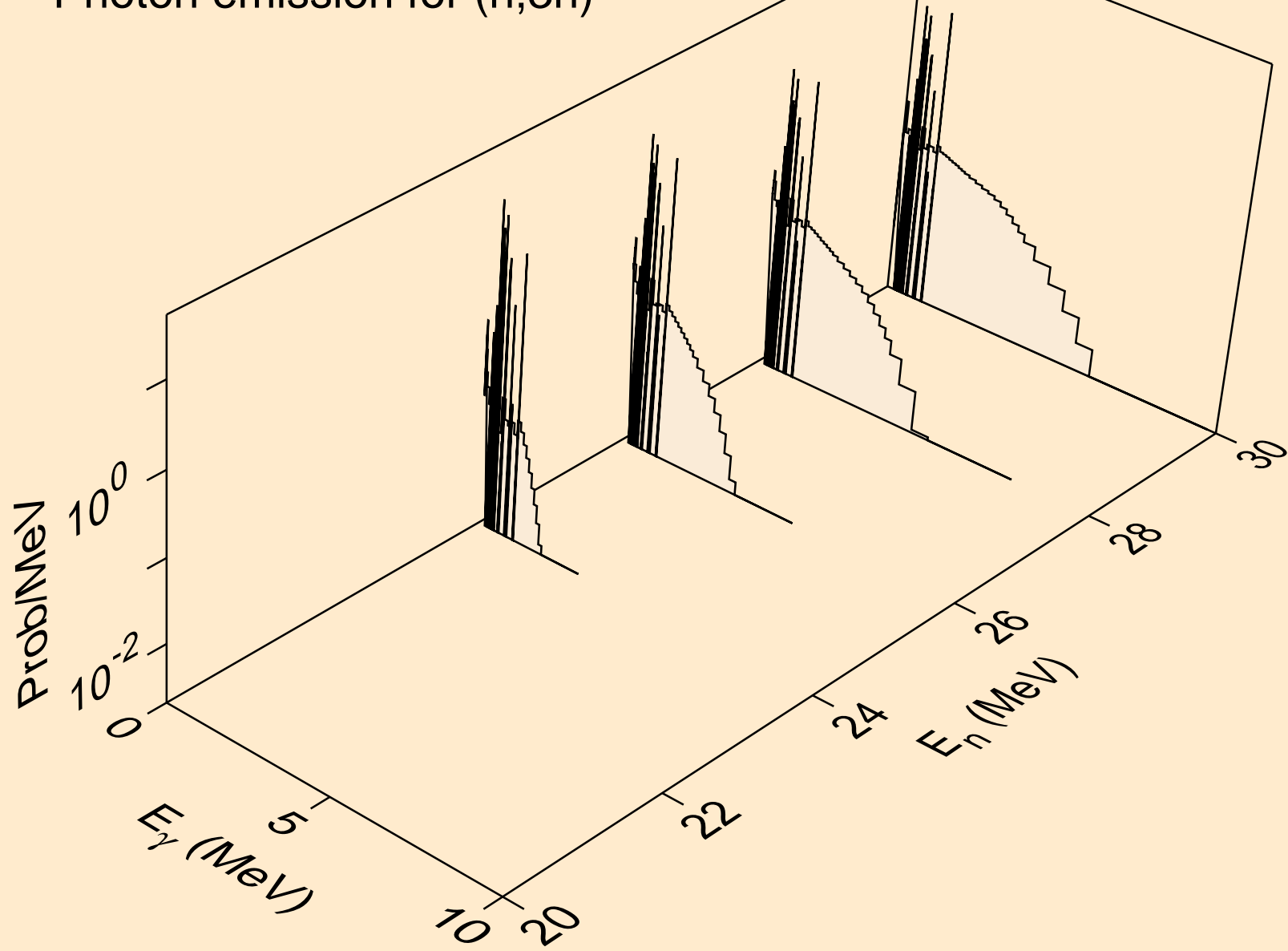
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Photon emission for (n,2nd)



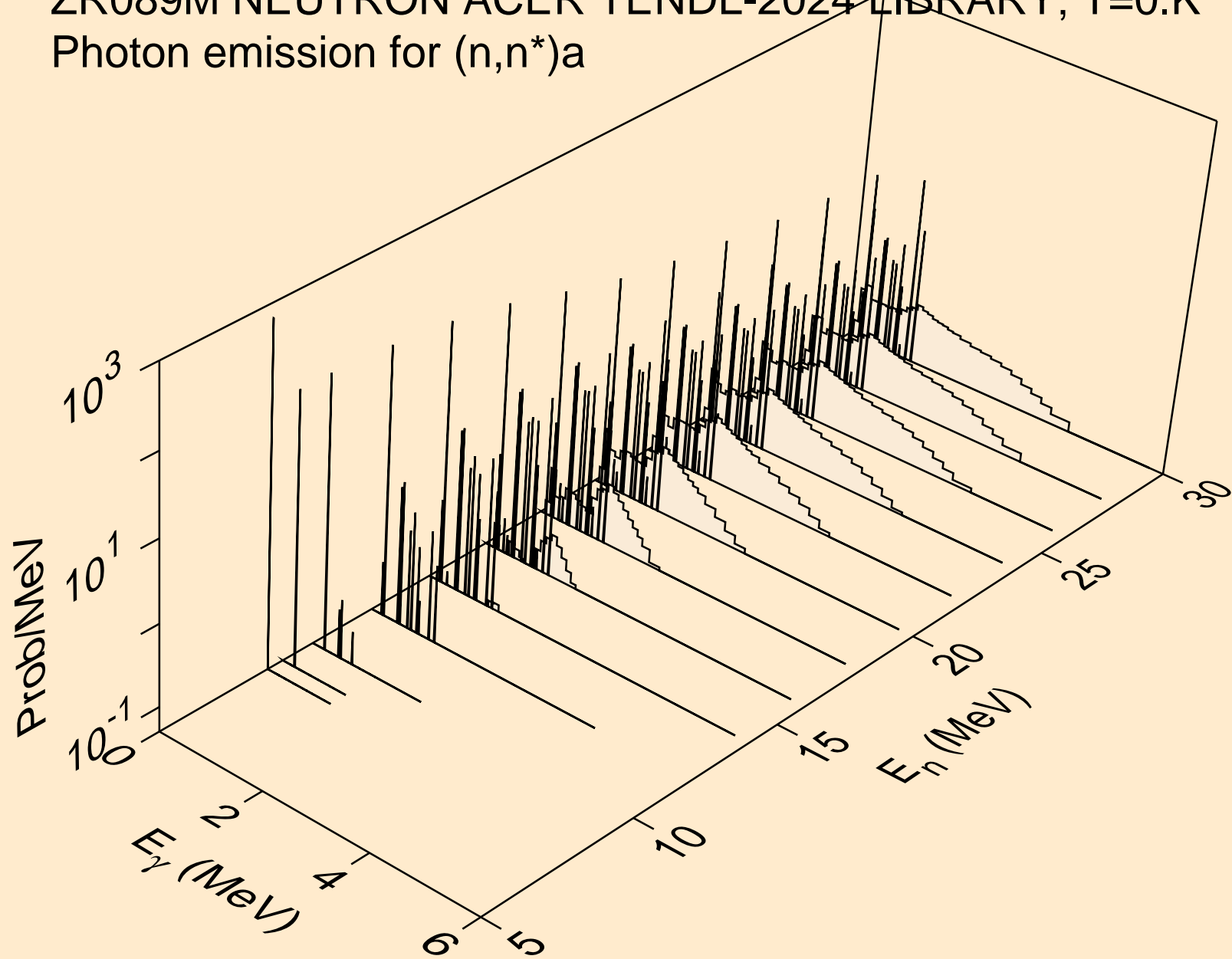
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Photon emission for (n,2n)



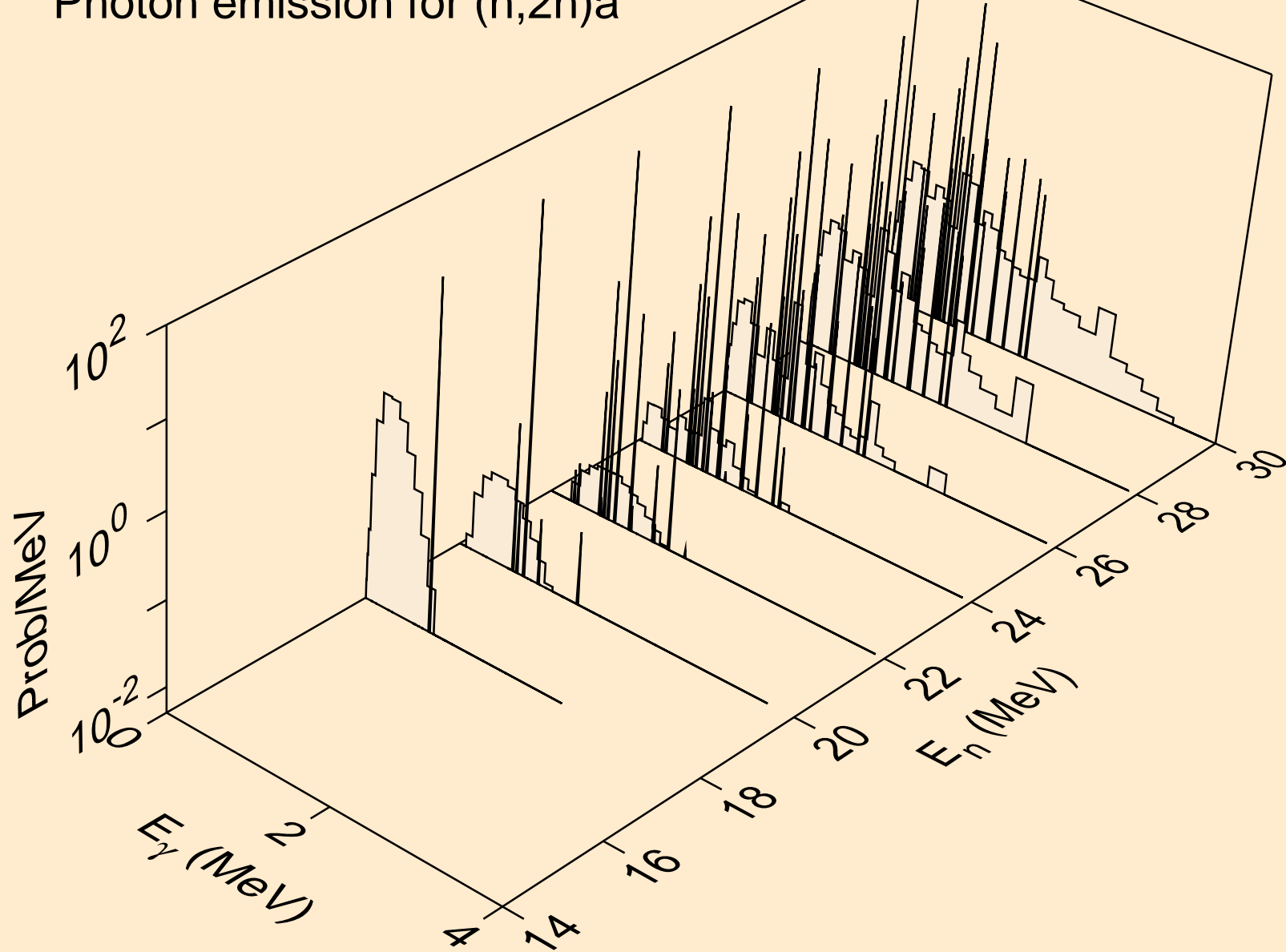
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Photon emission for (n,3n)



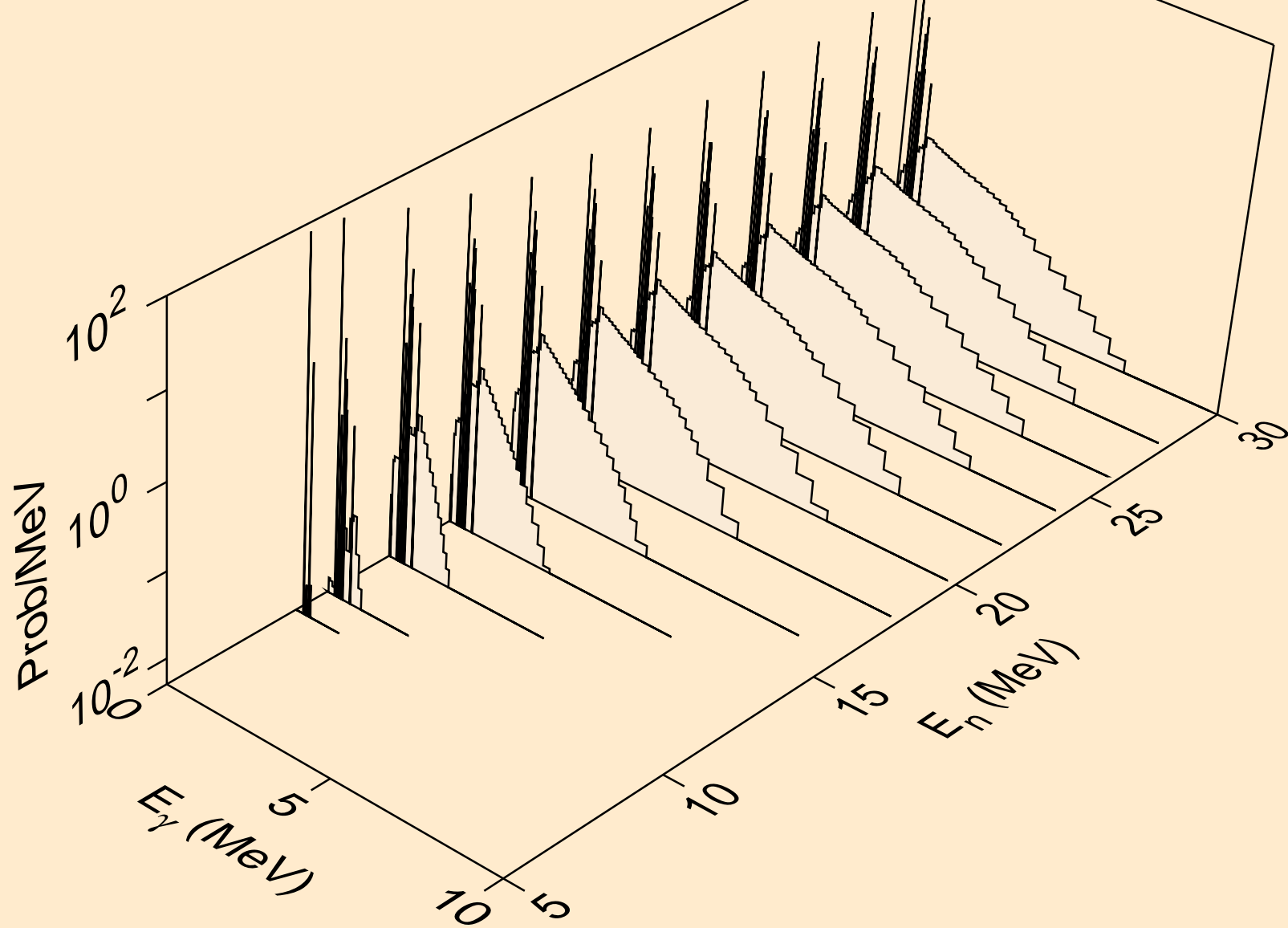
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Photon emission for (n,n\*)a



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a

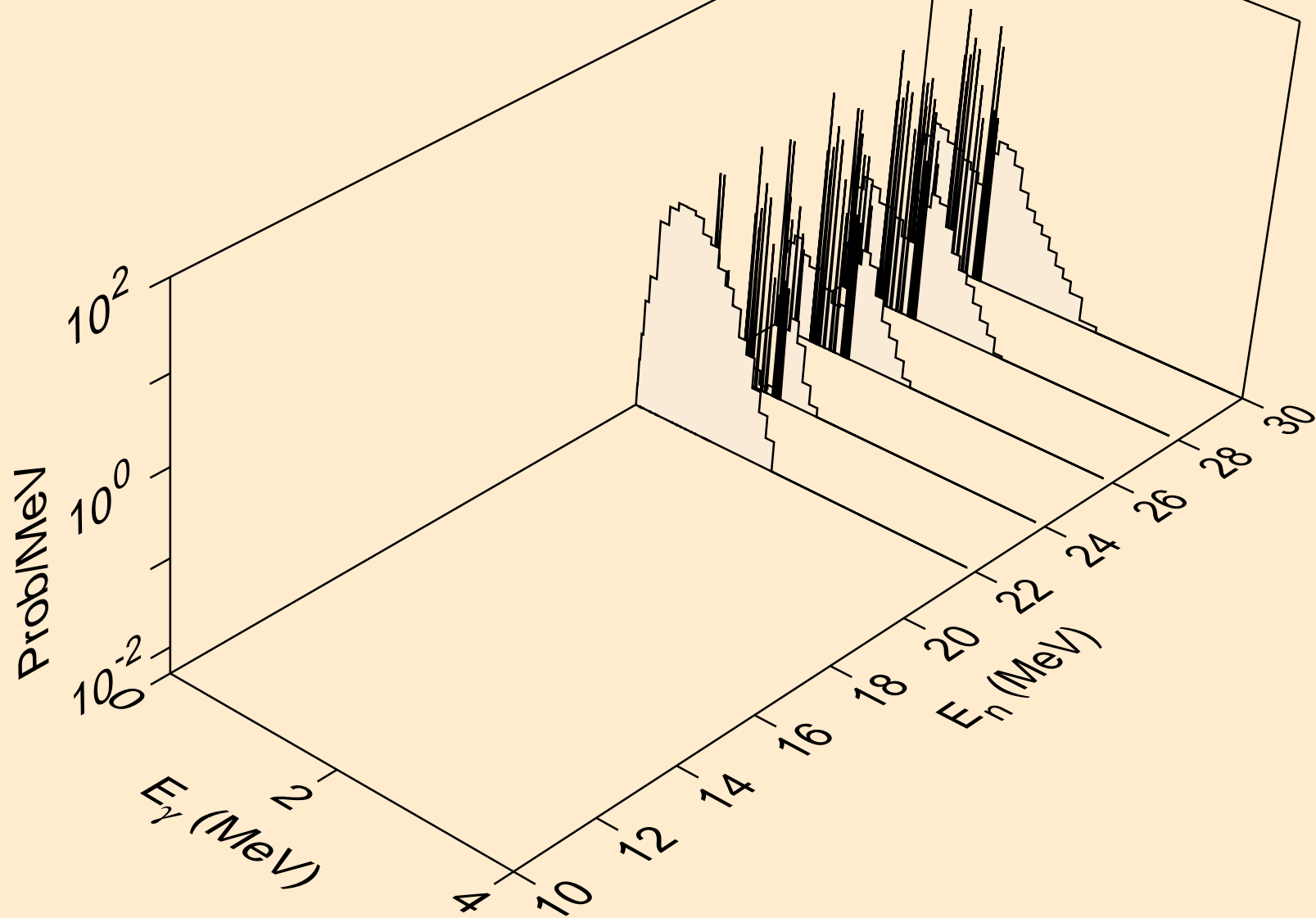


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Photon emission for (n,n\*)p

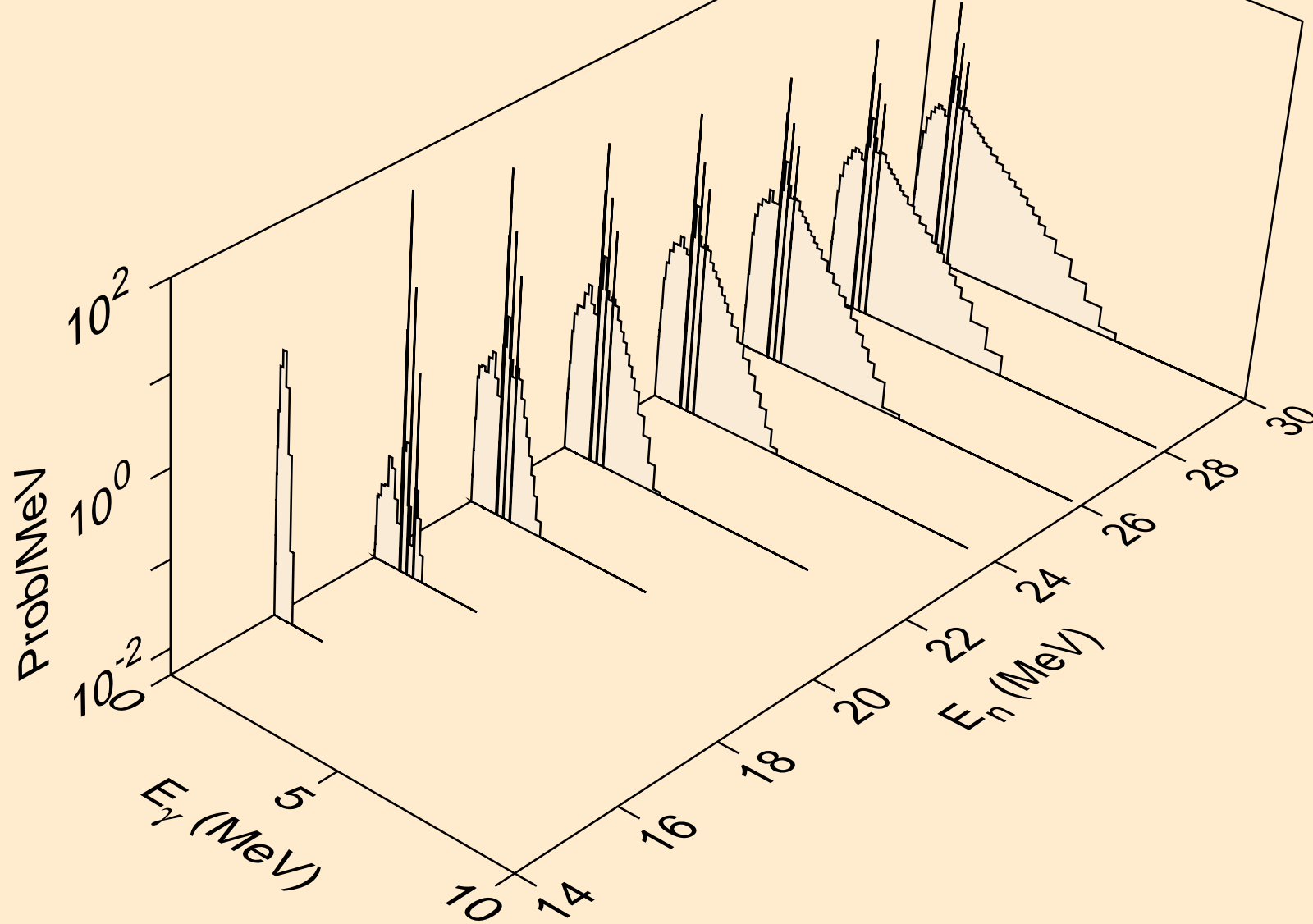




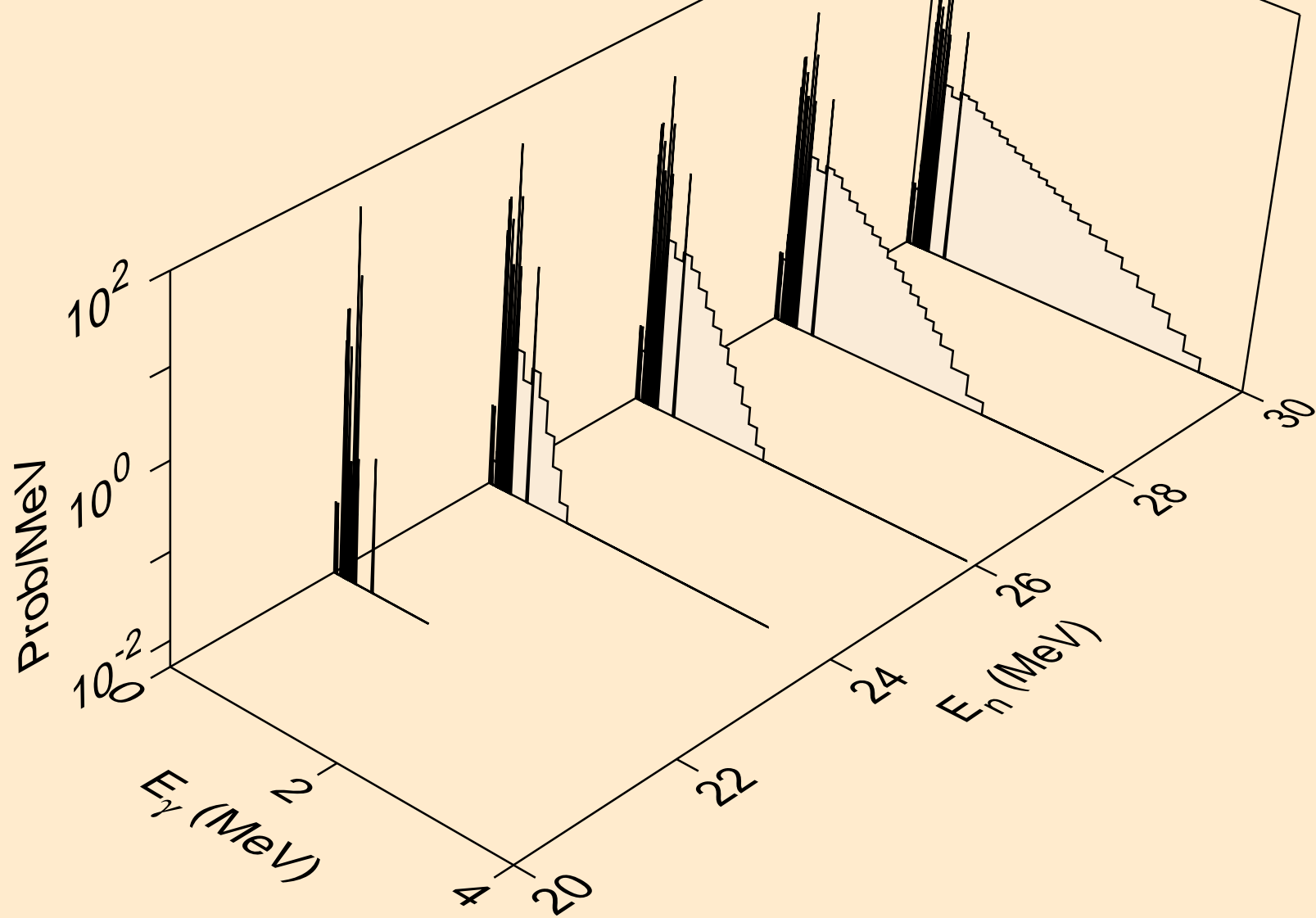
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Photon emission for (n,n\*)2a



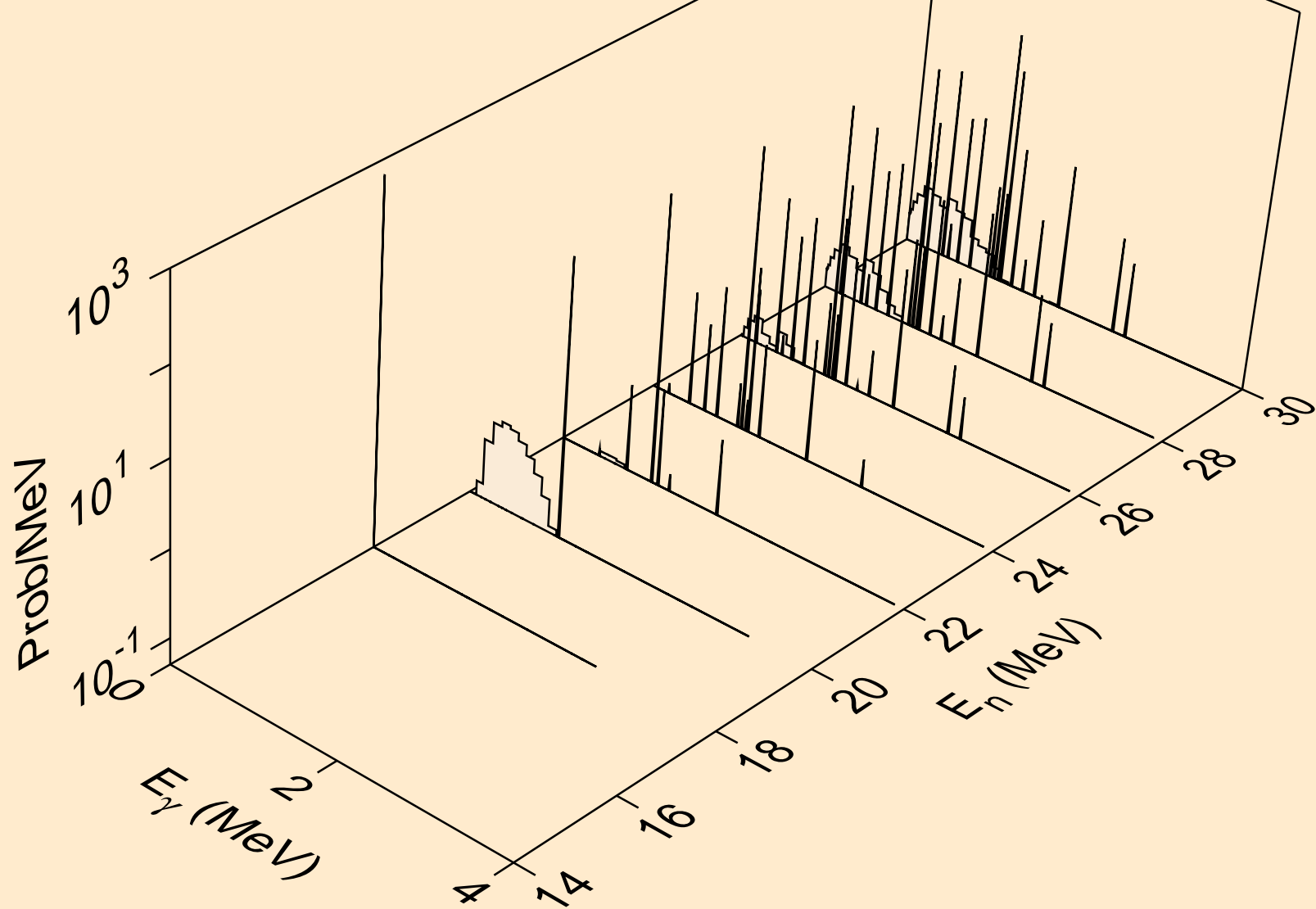
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Photon emission for (n,n\*)d



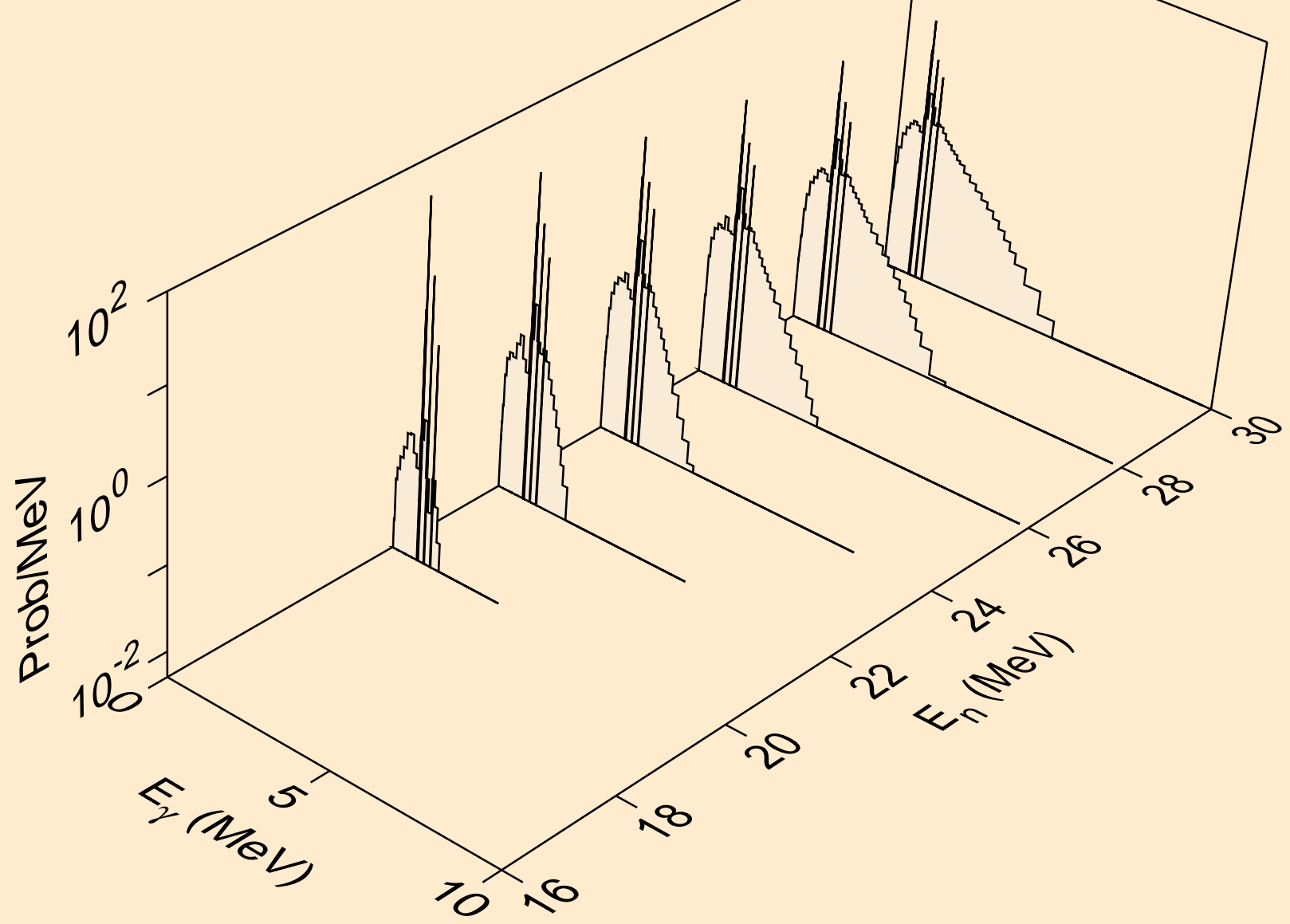
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Photon emission for (n,n\*)t



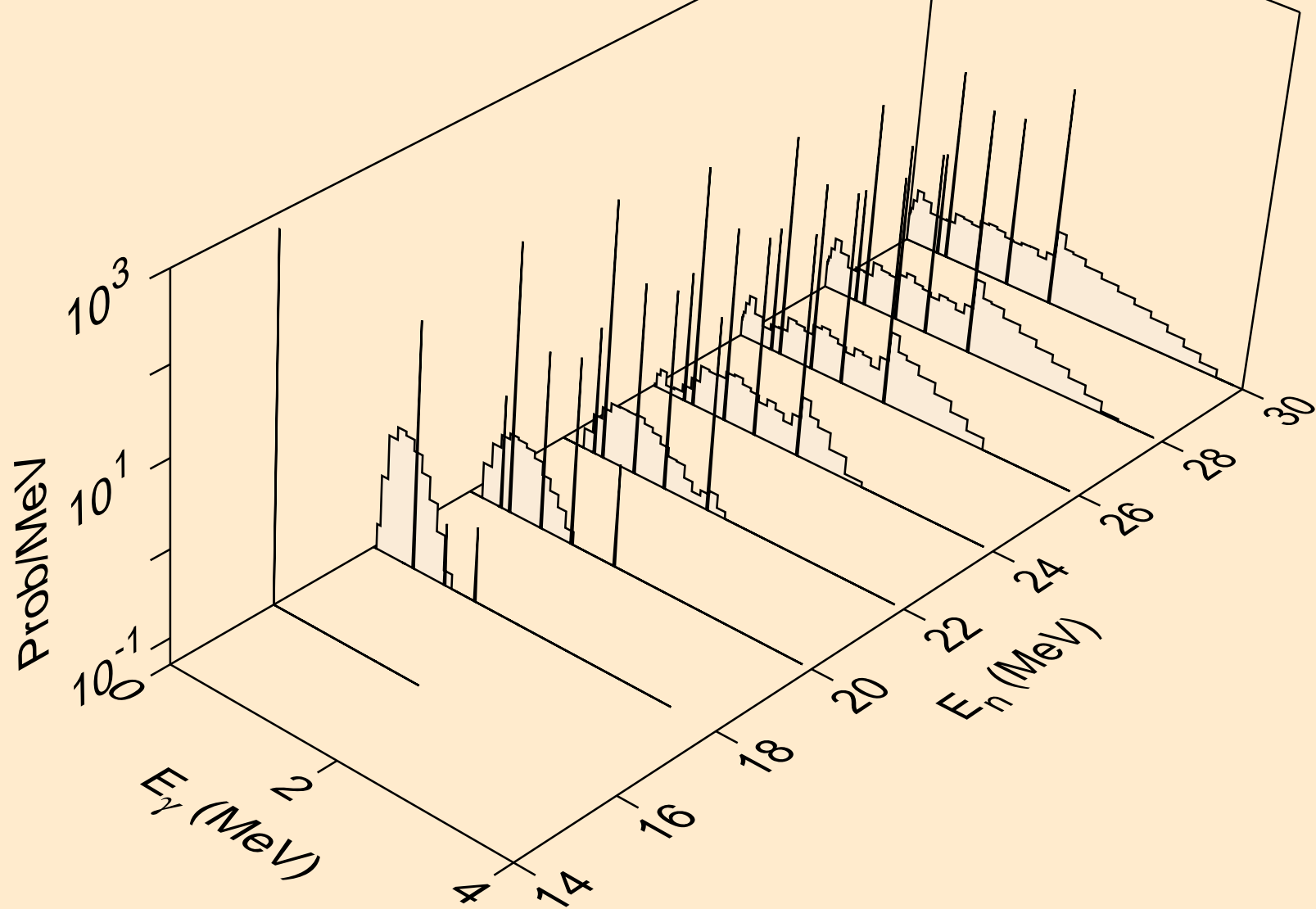
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Photon emission for (n,n\*)he3



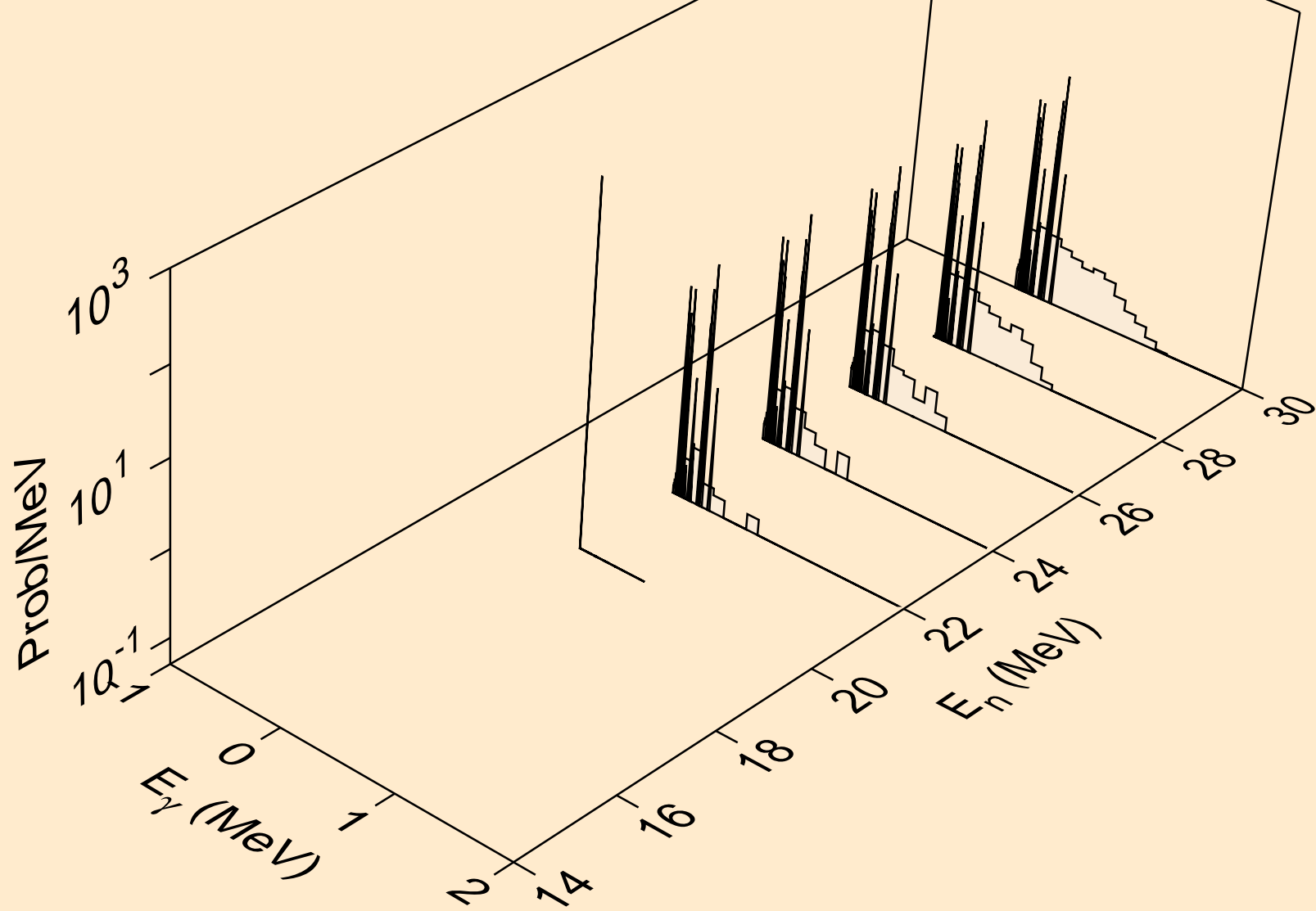
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Photon emission for (n,2np)



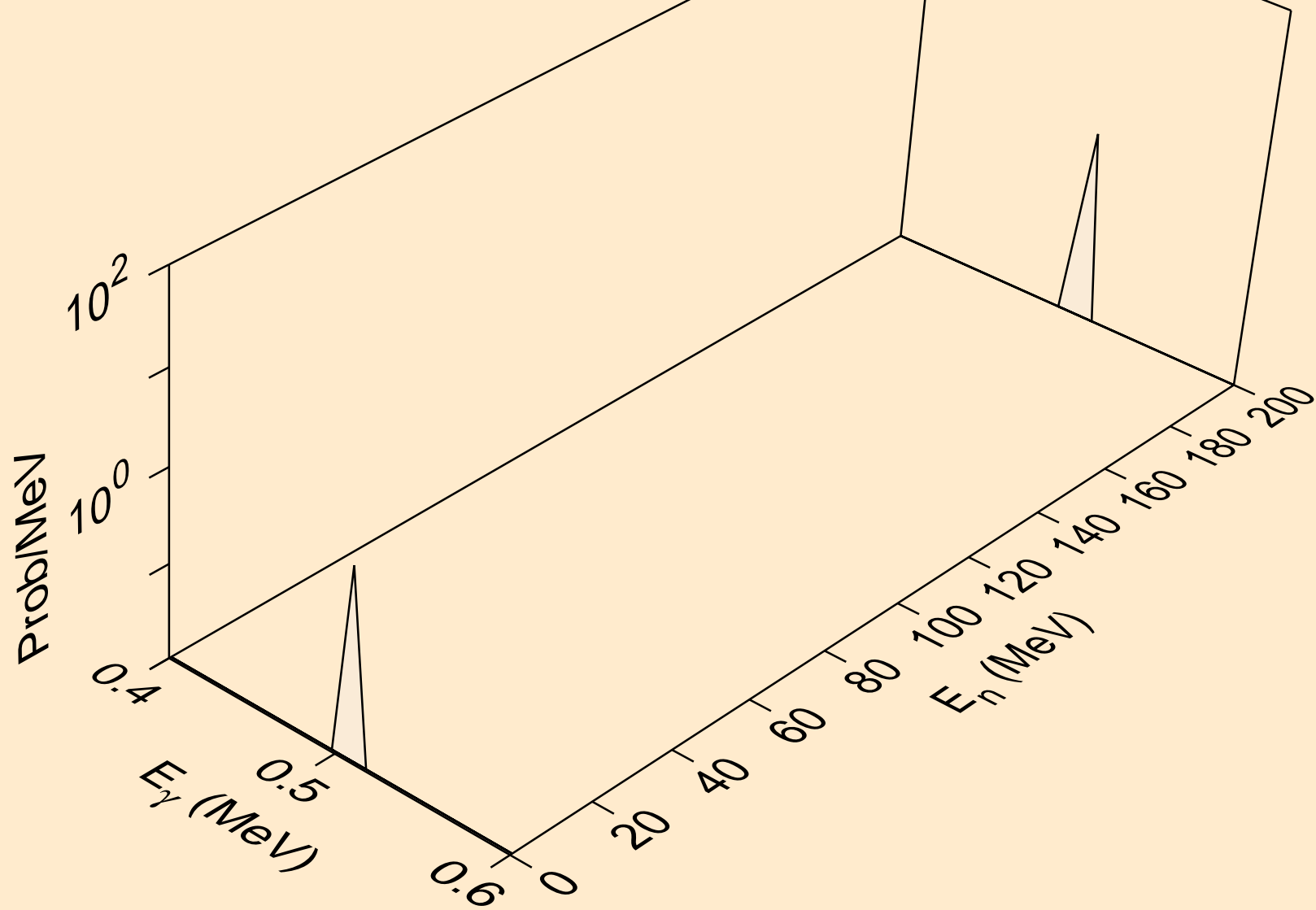
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Photon emission for (n,n2p)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)

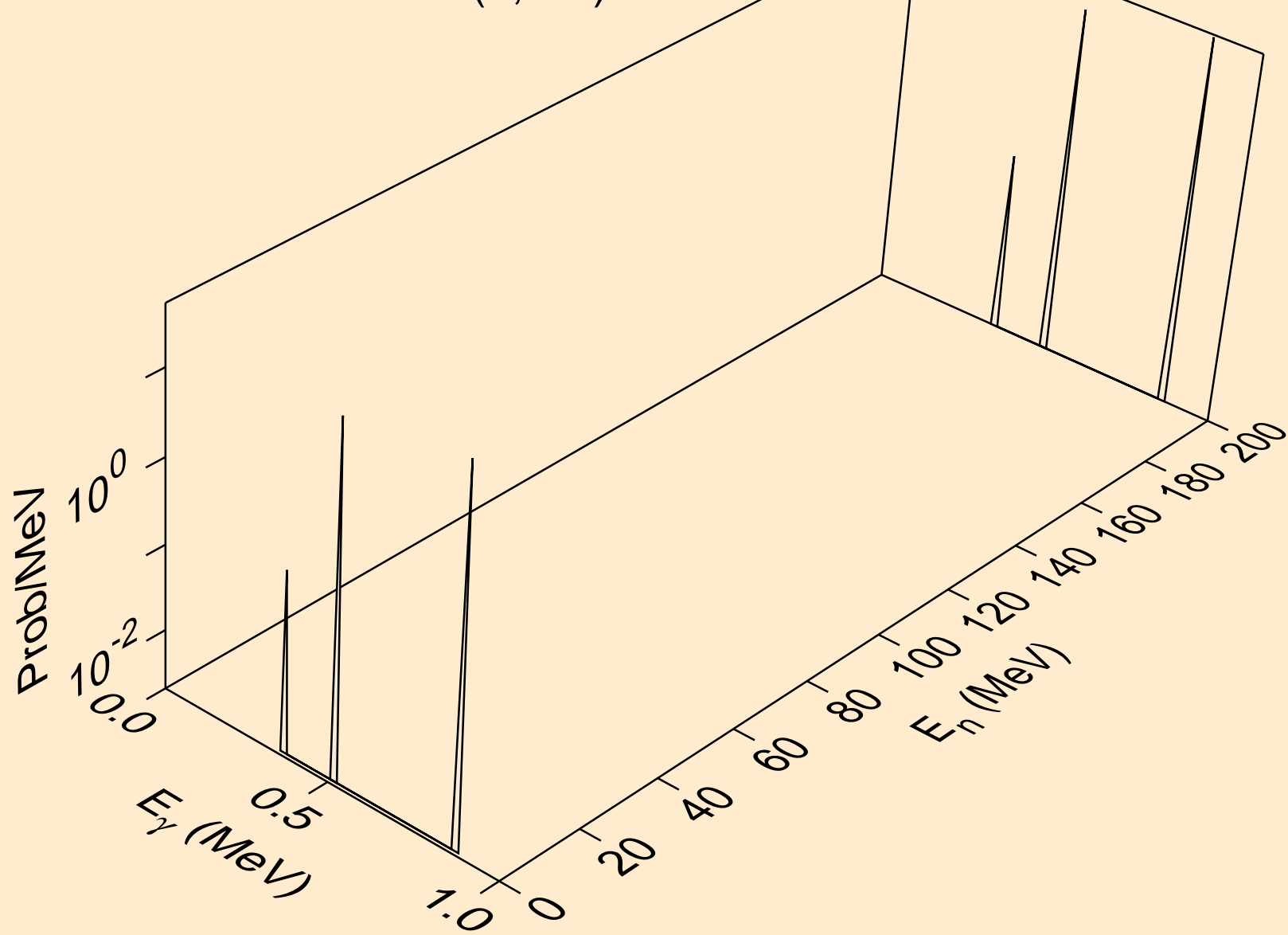


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Photon emission for (n,n\*2)

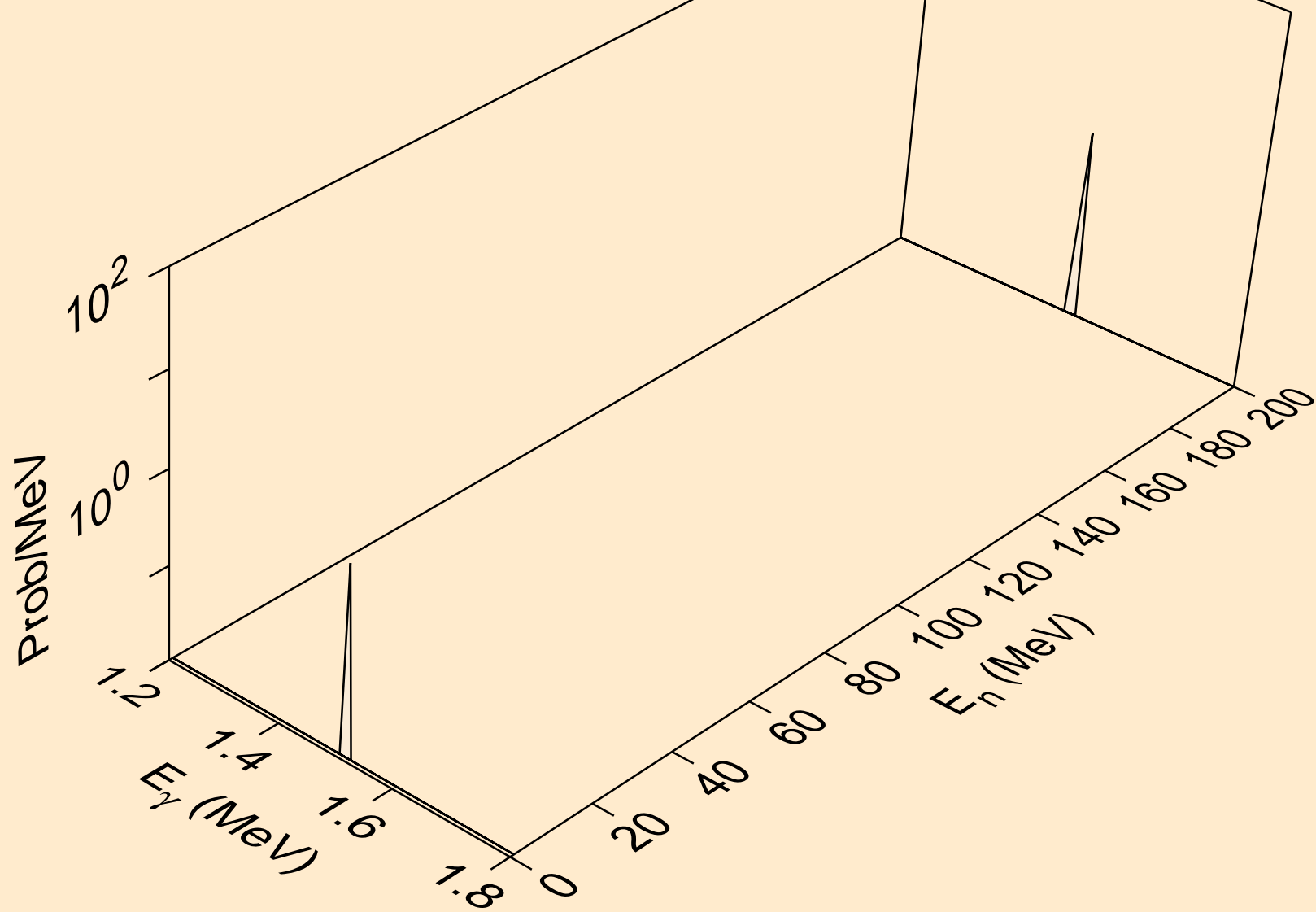




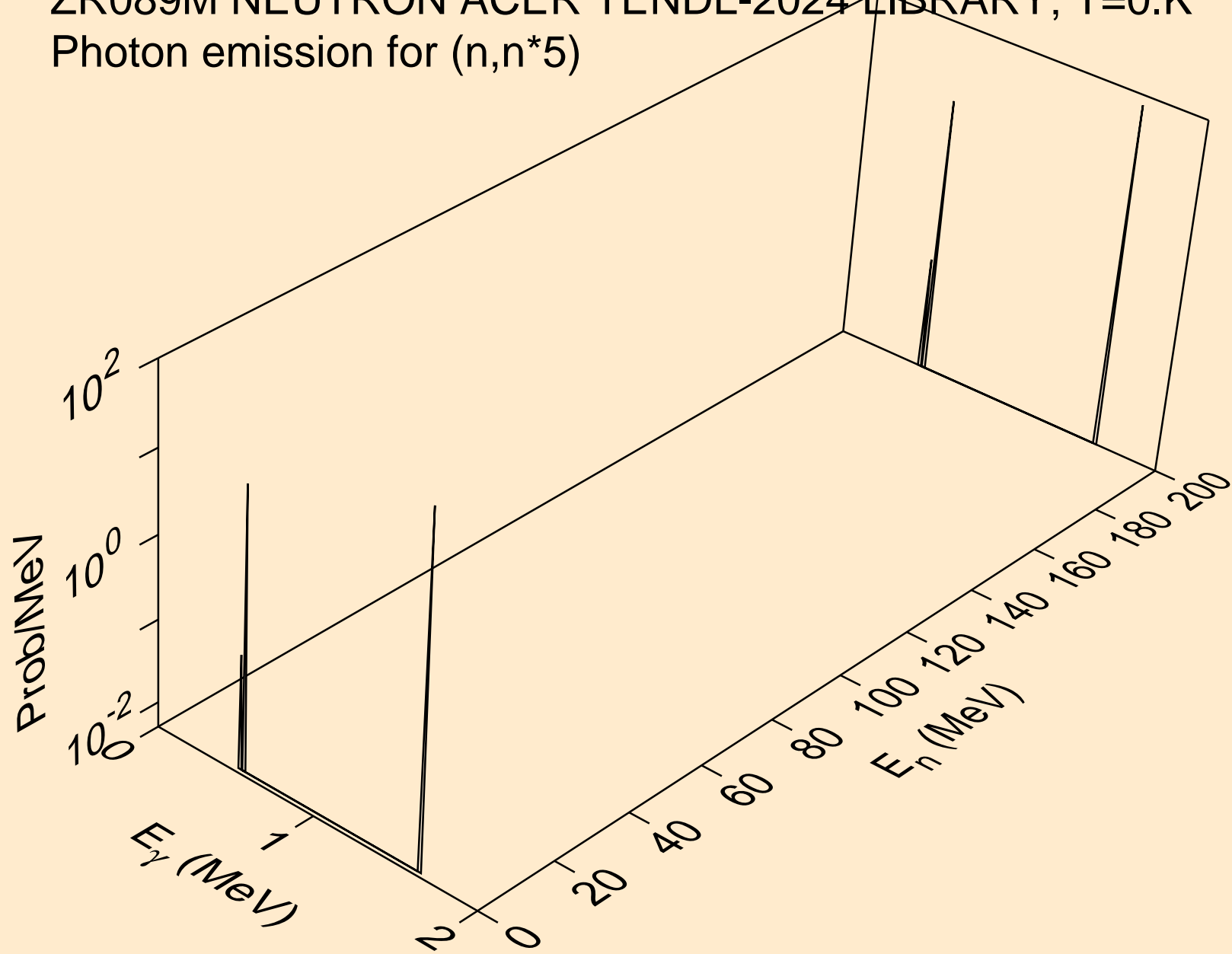
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Photon emission for (n,n\*3)



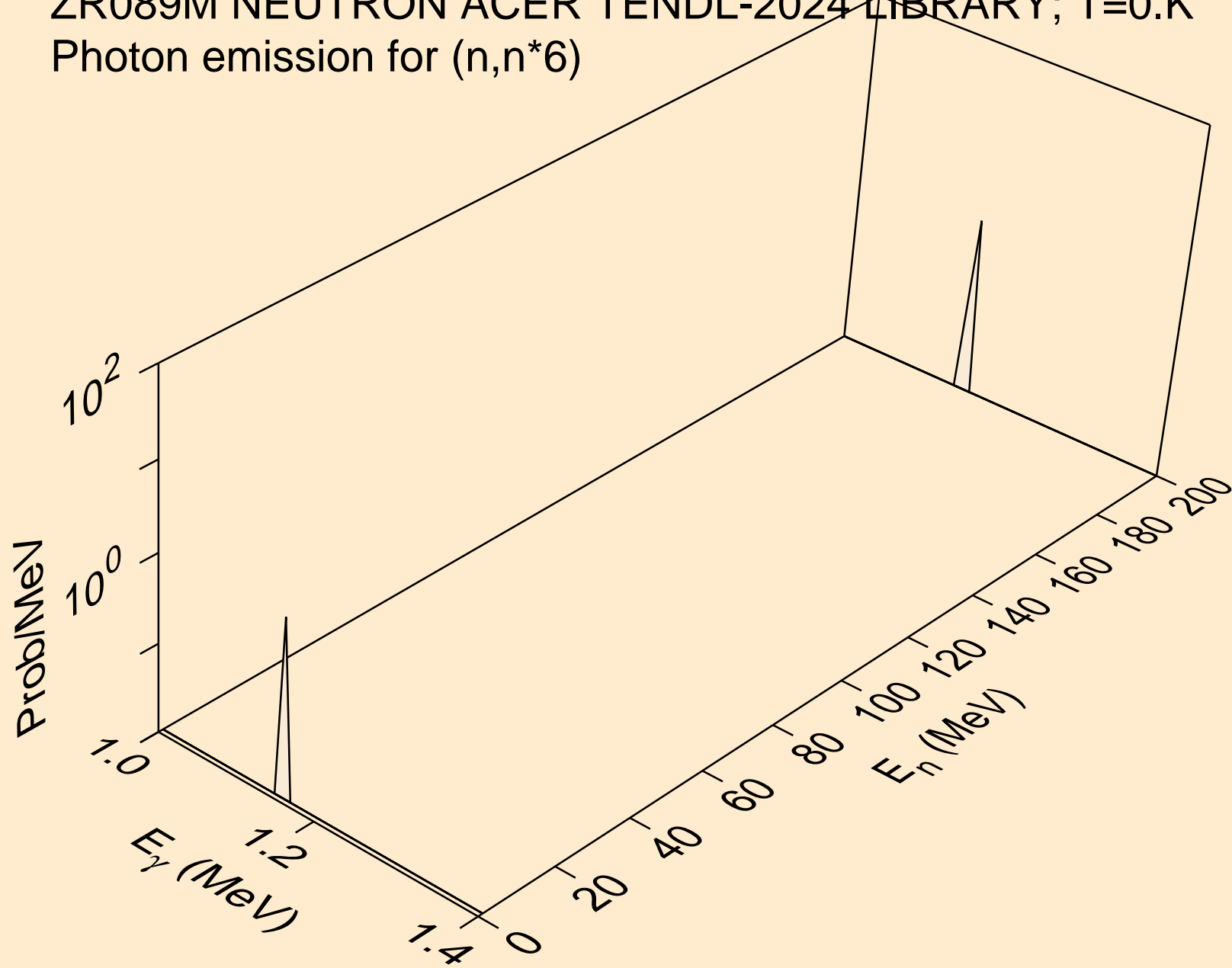
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Photon emission for (n,n\*4)



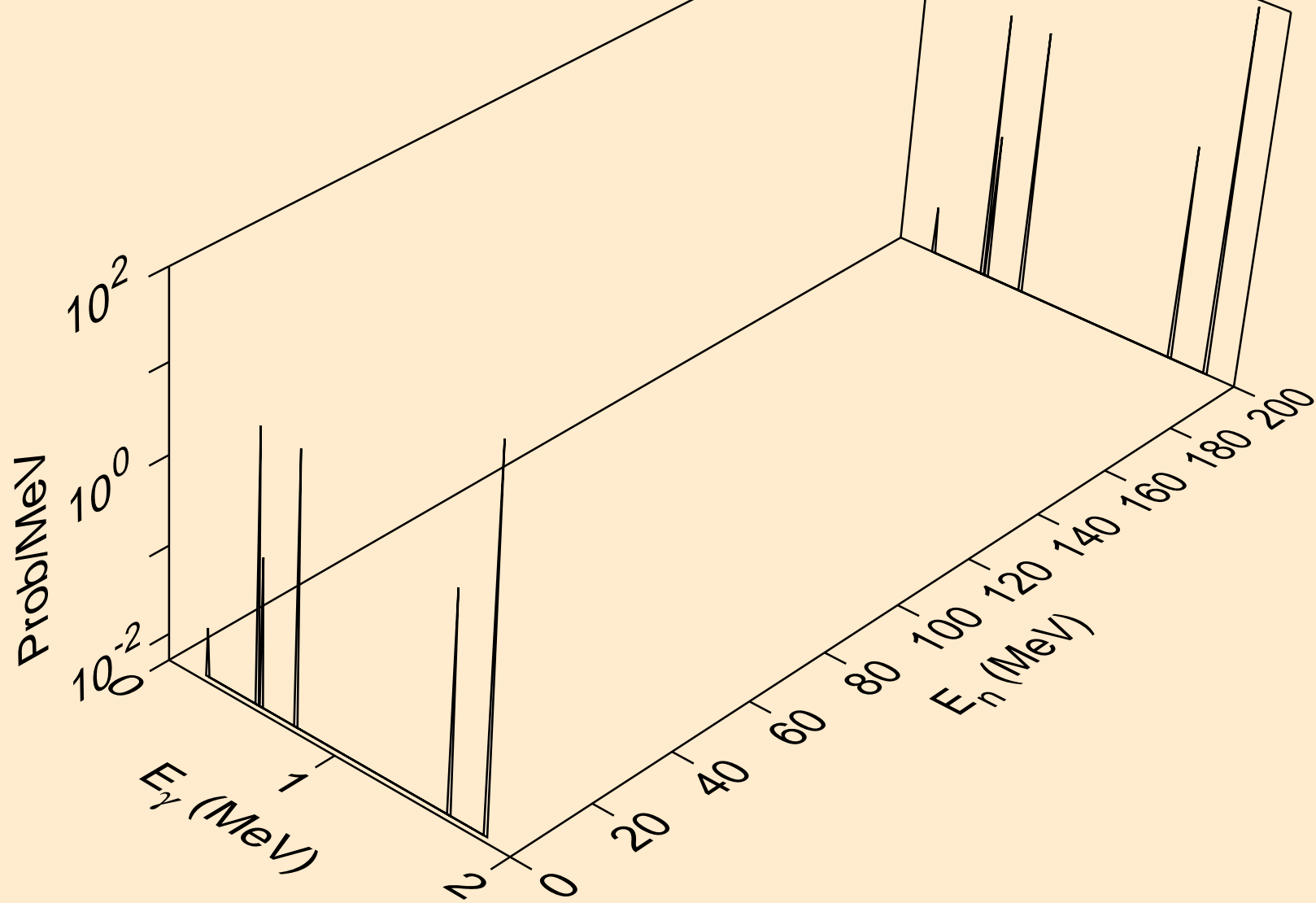
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Photon emission for (n,n\*5)



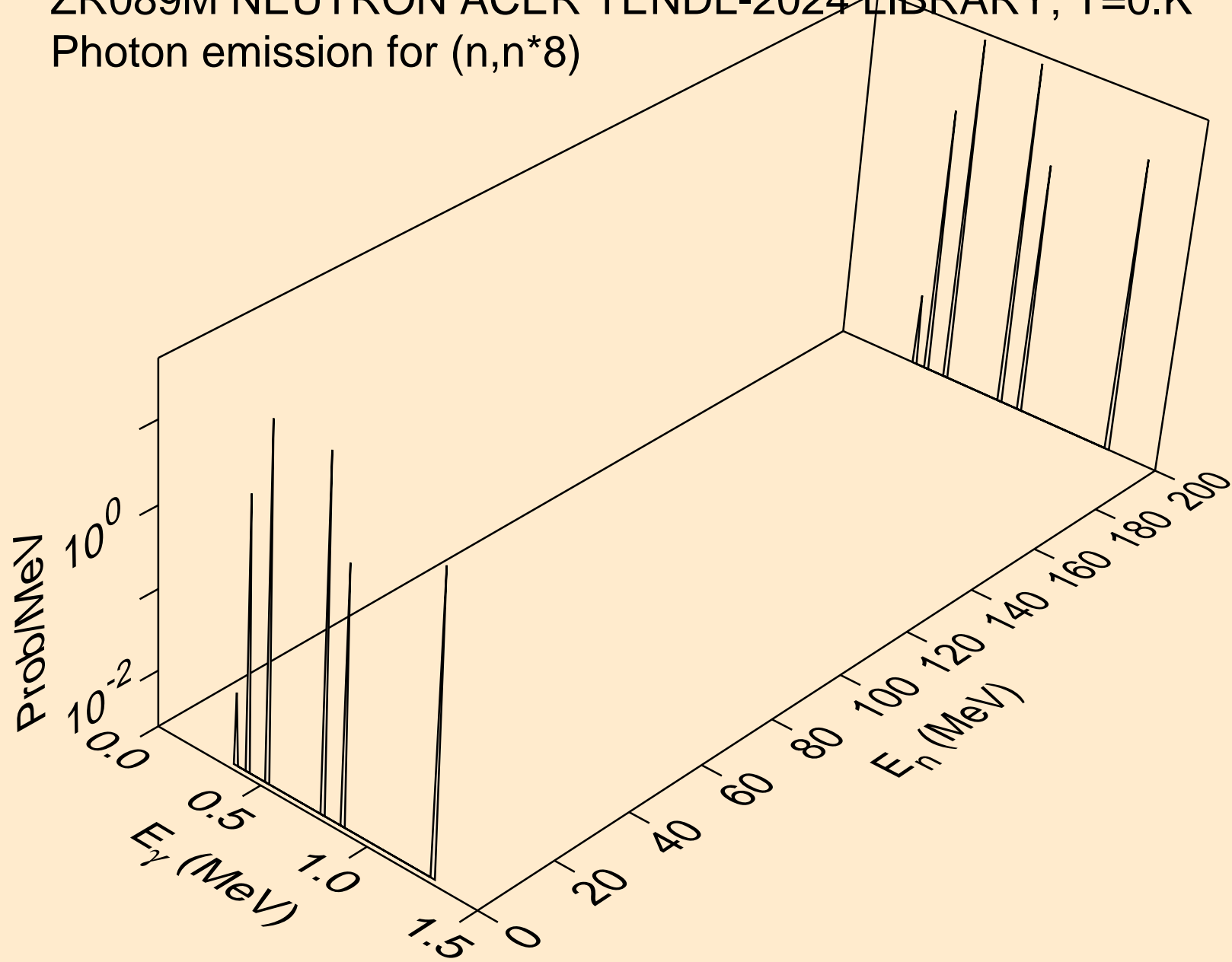
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Photon emission for (n,n\*6)



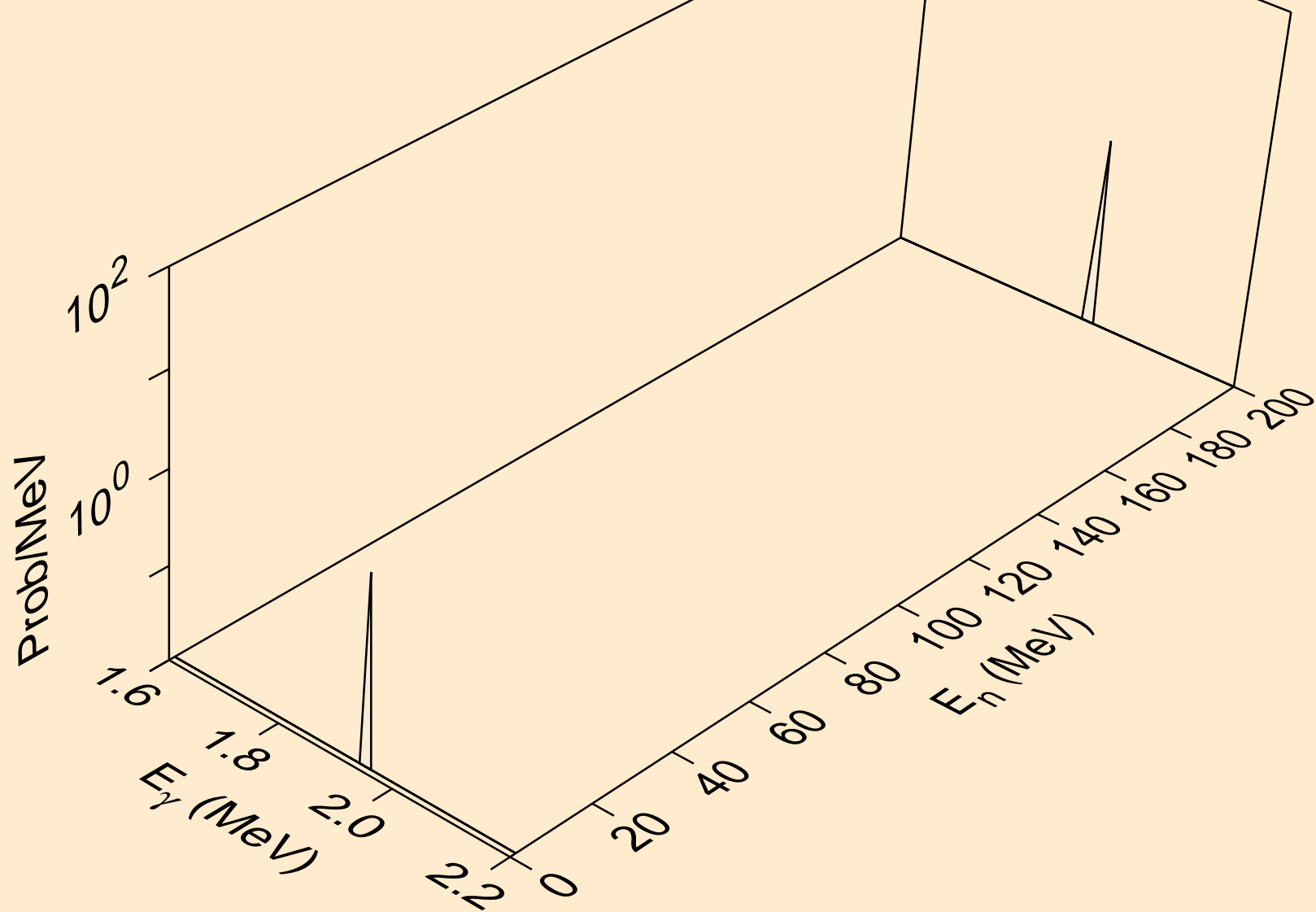
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Photon emission for (n,n\*7)



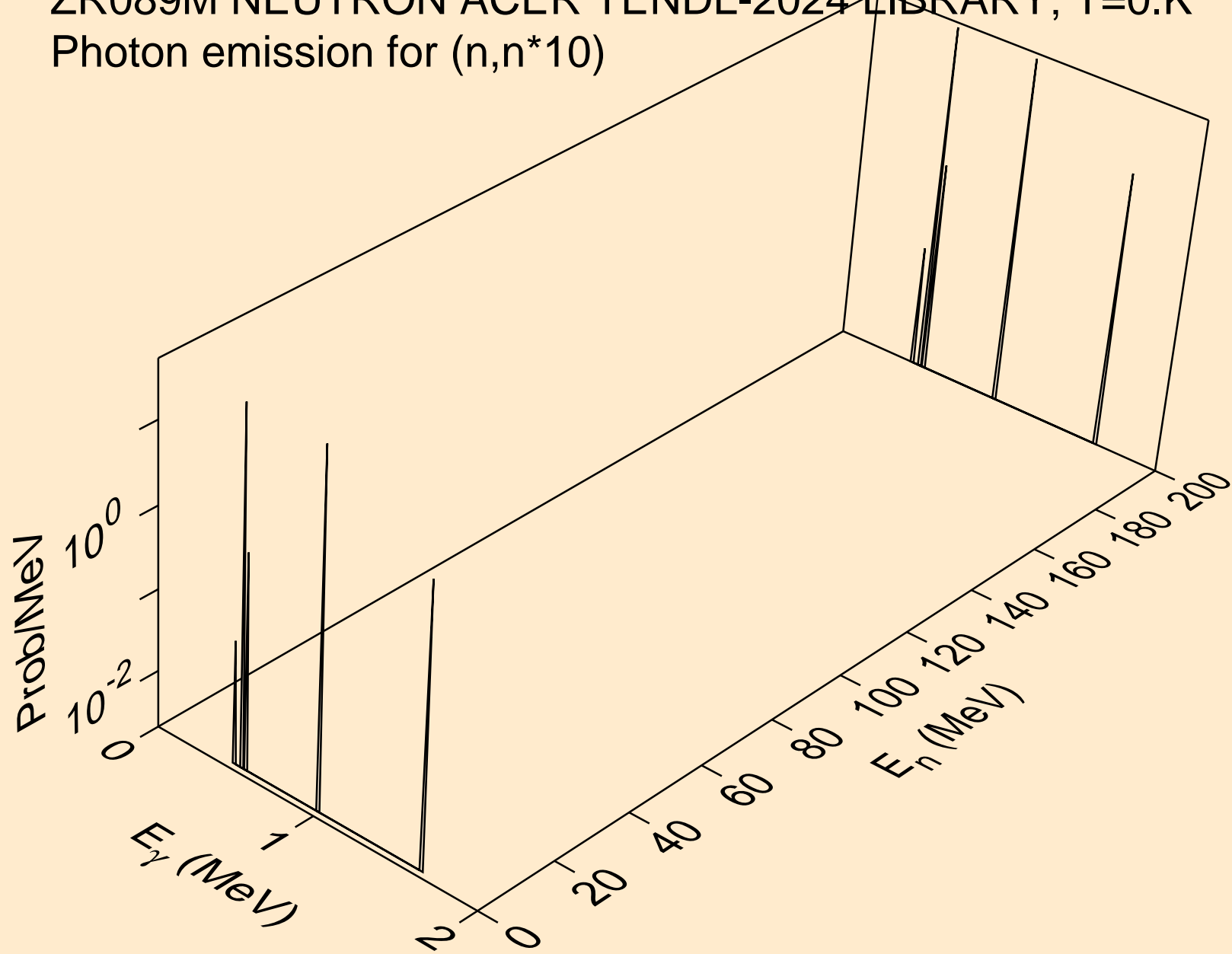
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Photon emission for (n,n\*8)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*9)

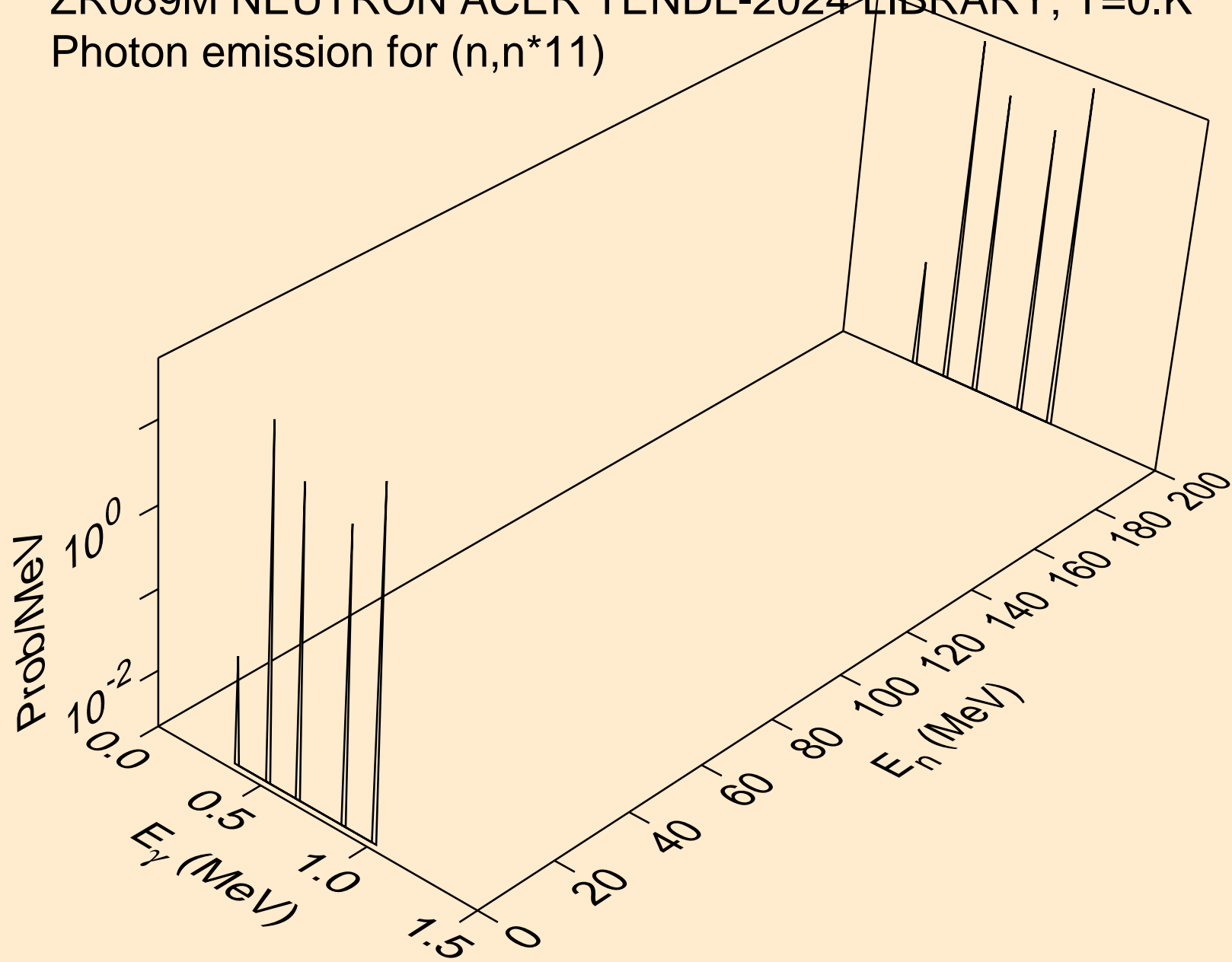


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Photon emission for (n,n\*10)

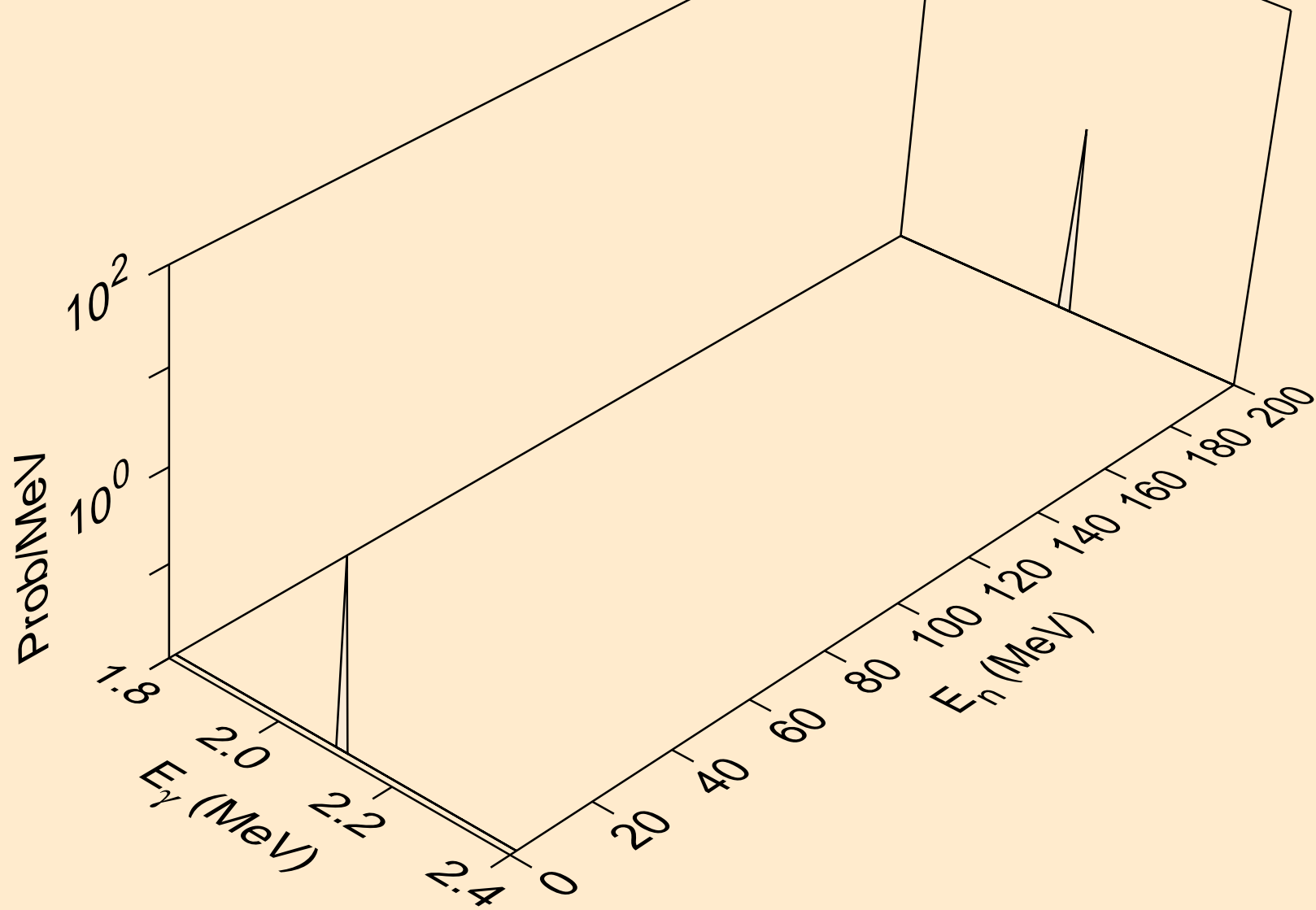




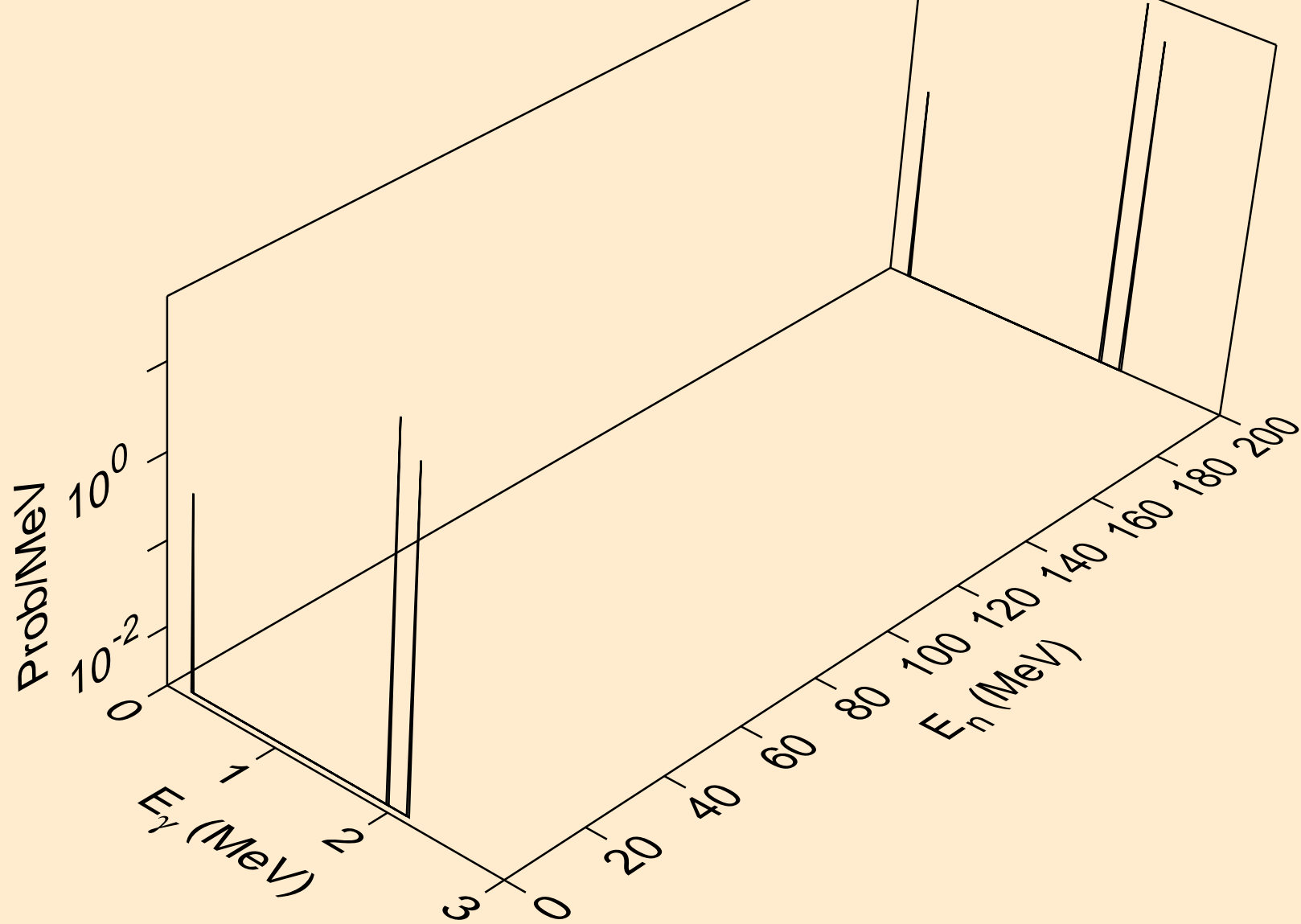
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Photon emission for (n,n\*11)



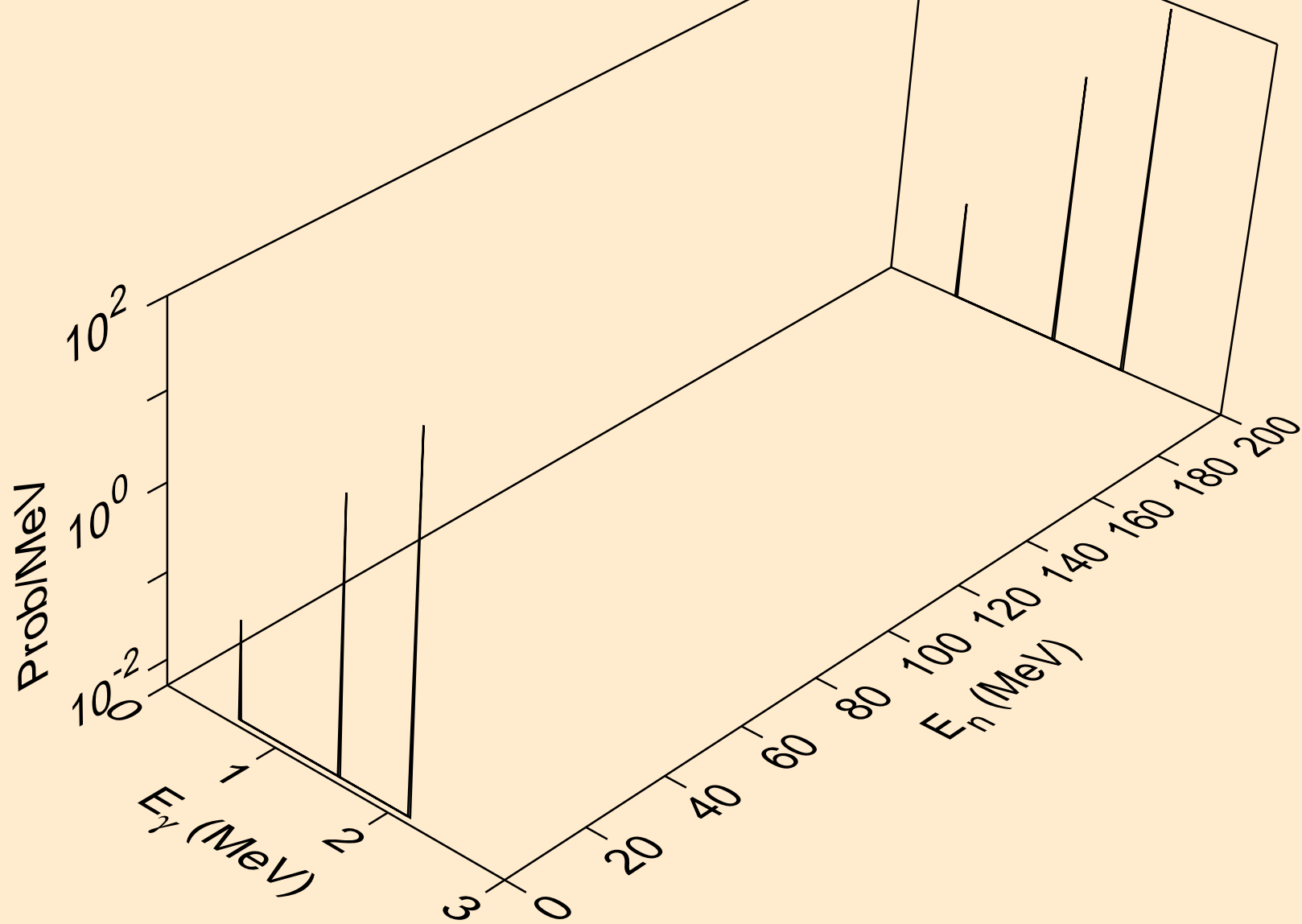
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Photon emission for (n,n\*12)



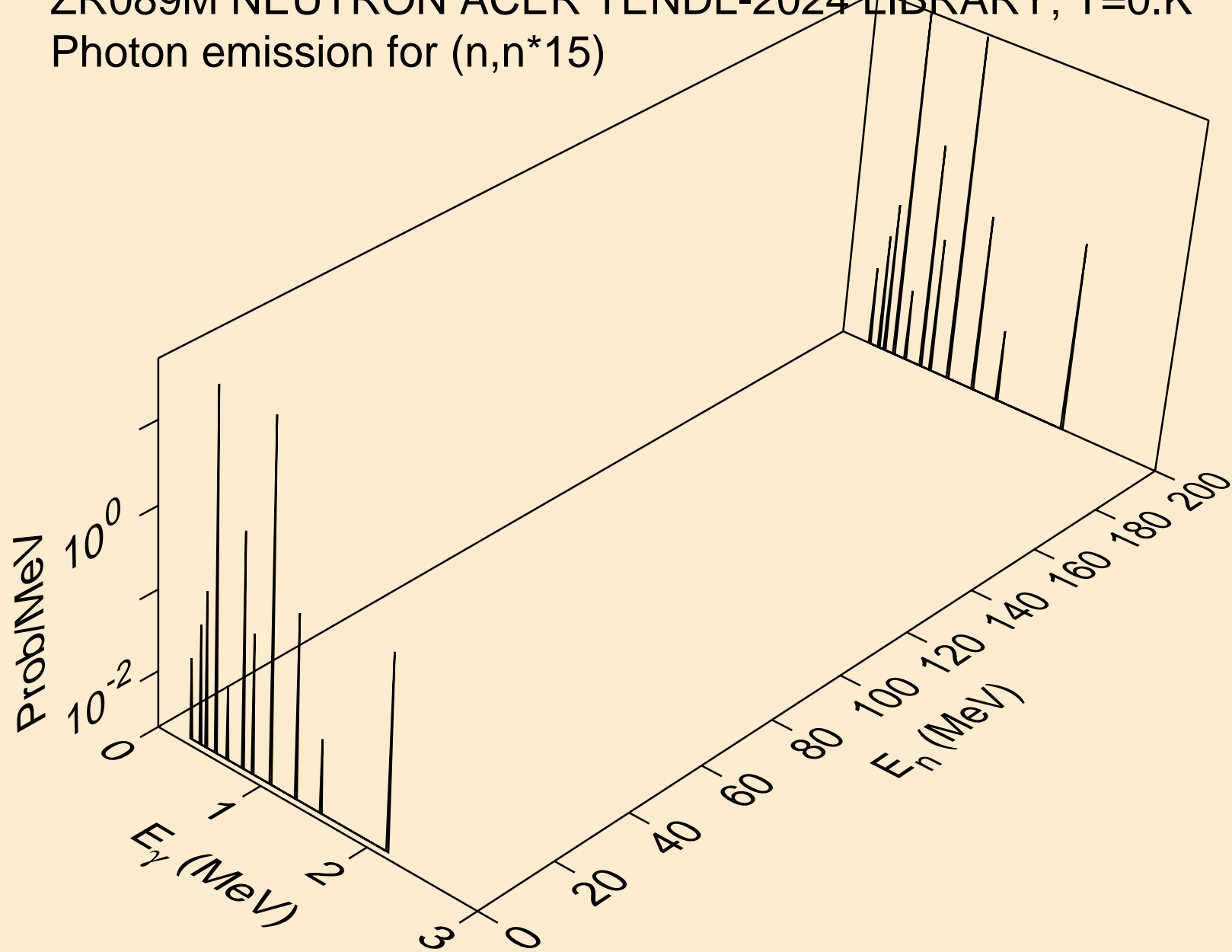
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Photon emission for (n,n\*13)



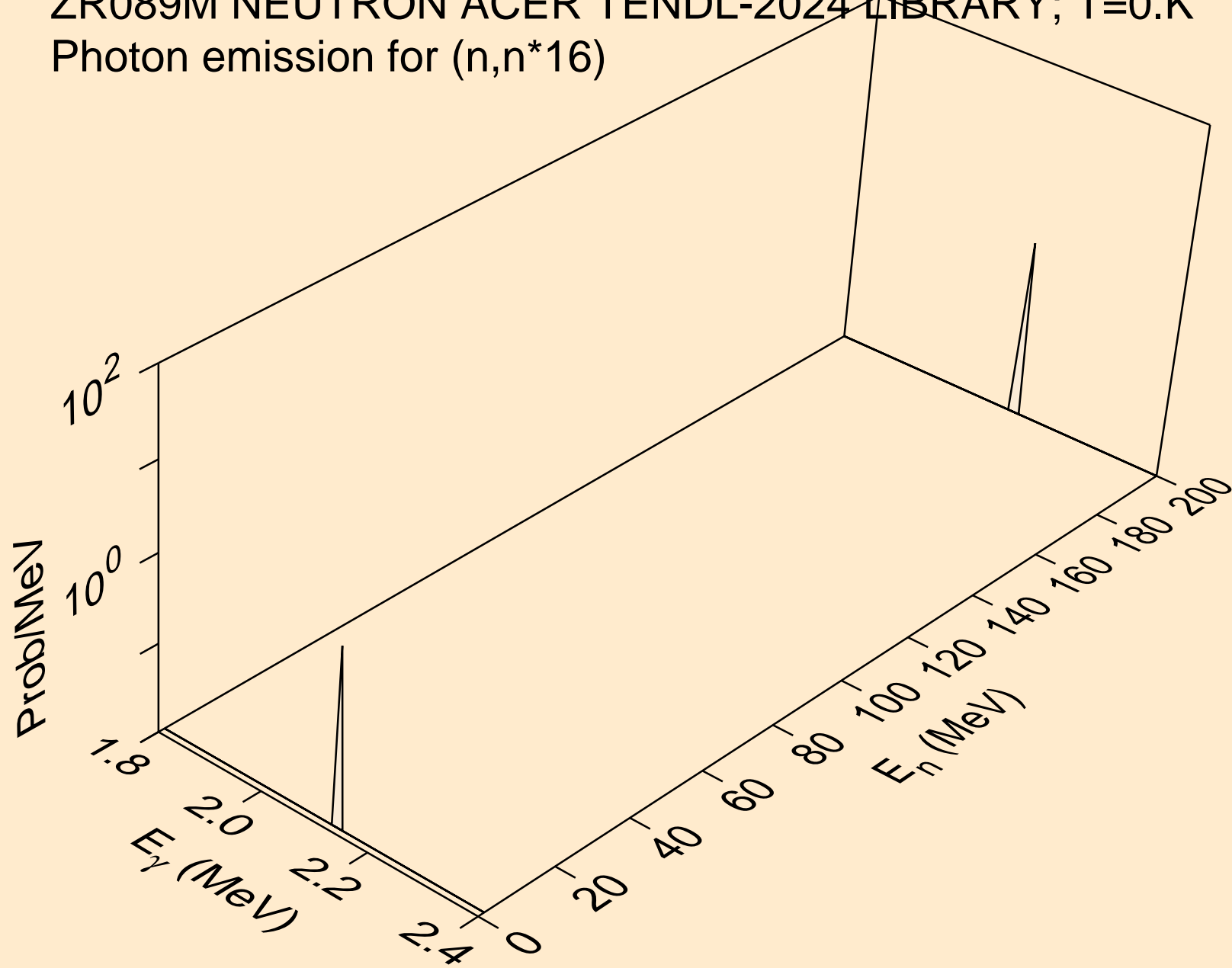
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Photon emission for (n,n\*14)



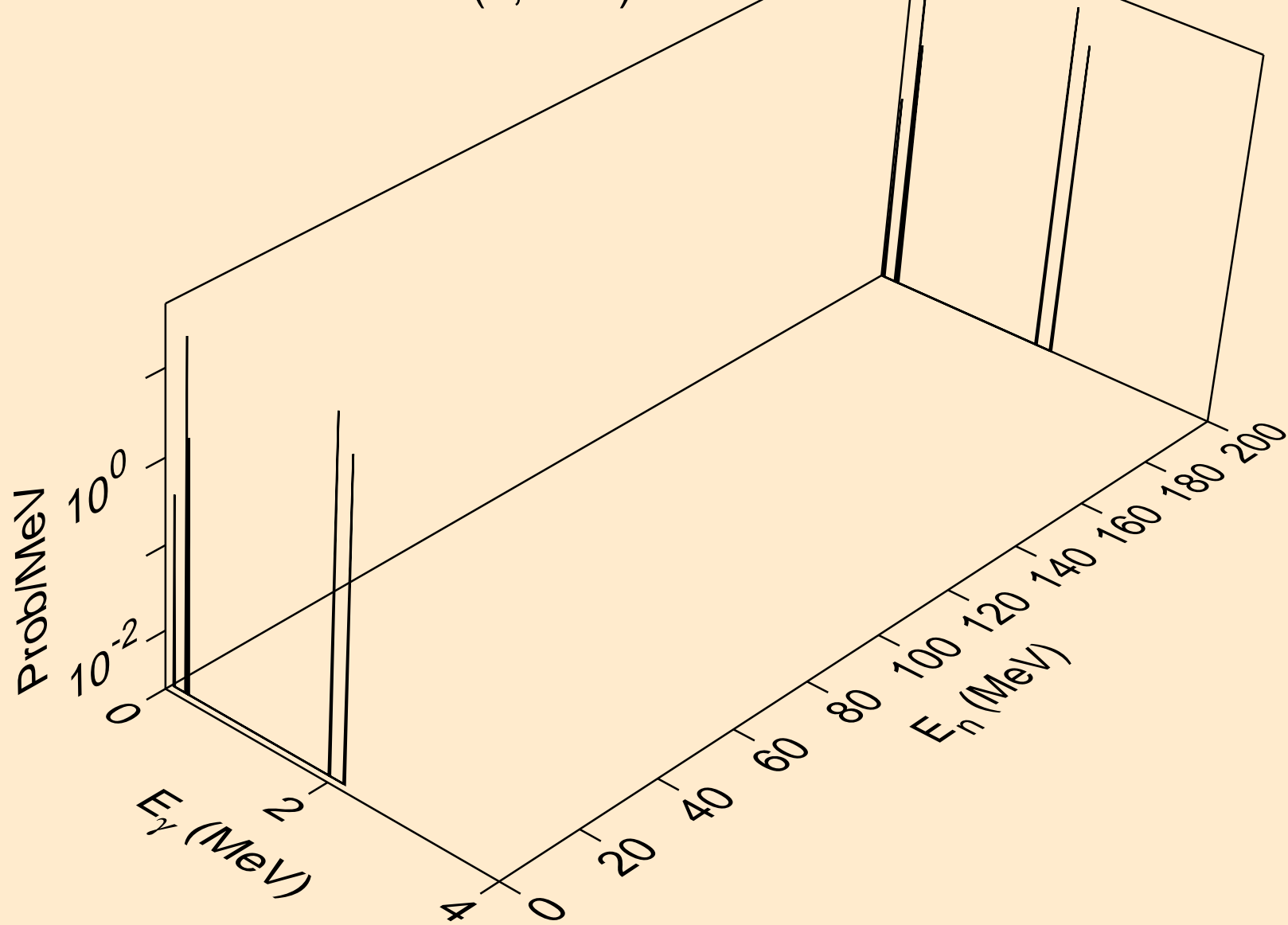
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Photon emission for (n,n\*15)



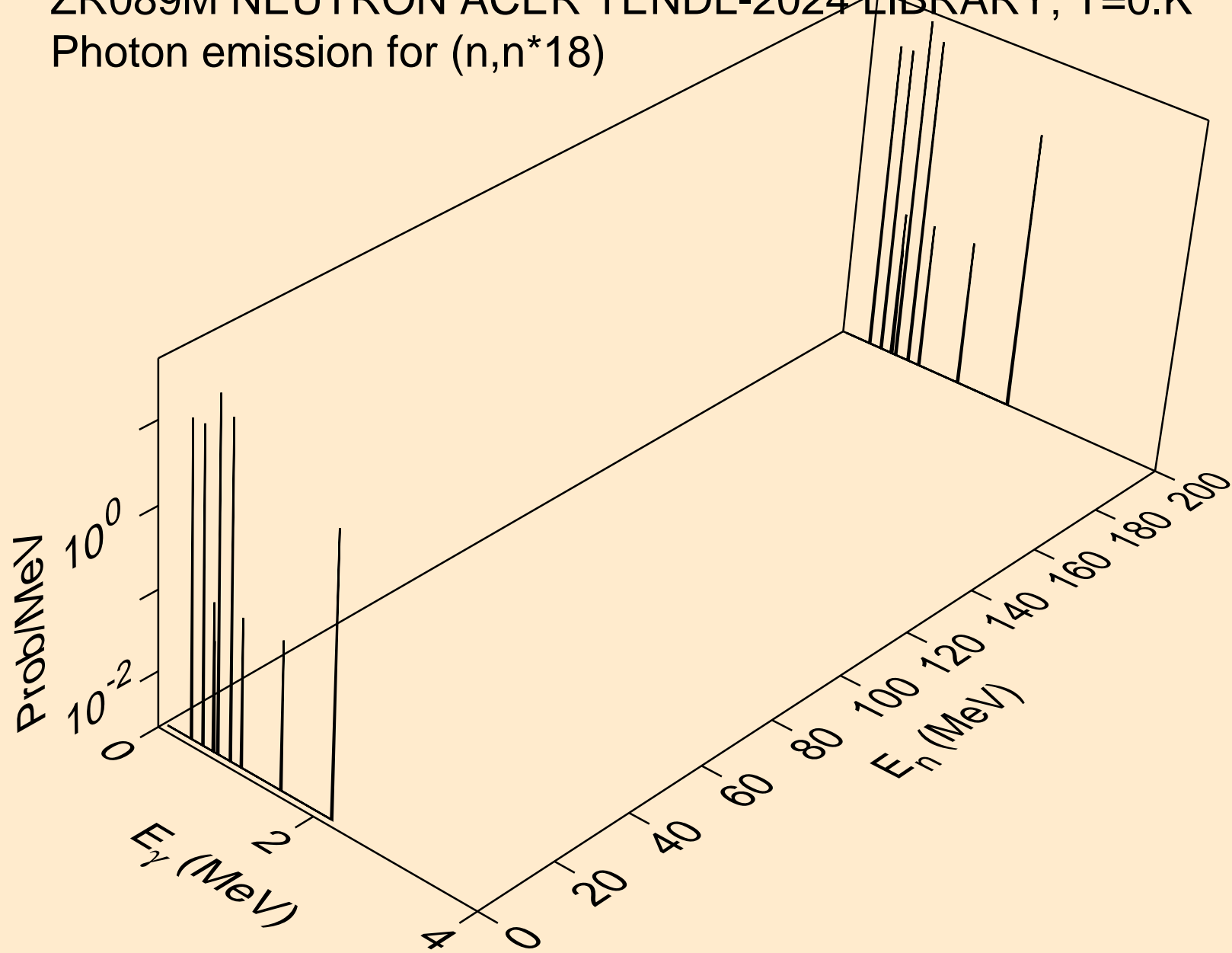
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Photon emission for (n,n\*16)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*17)

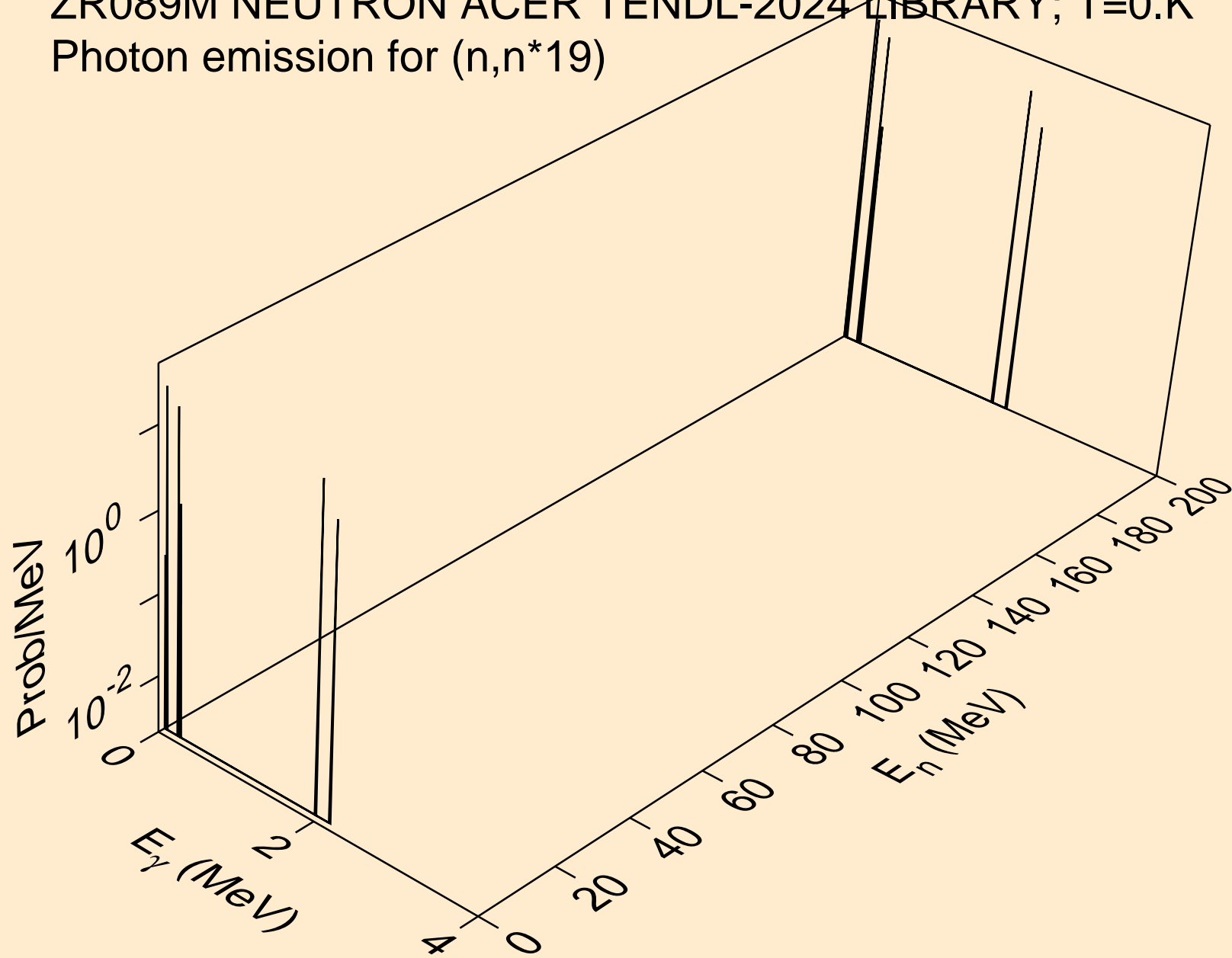


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Photon emission for (n,n\*18)

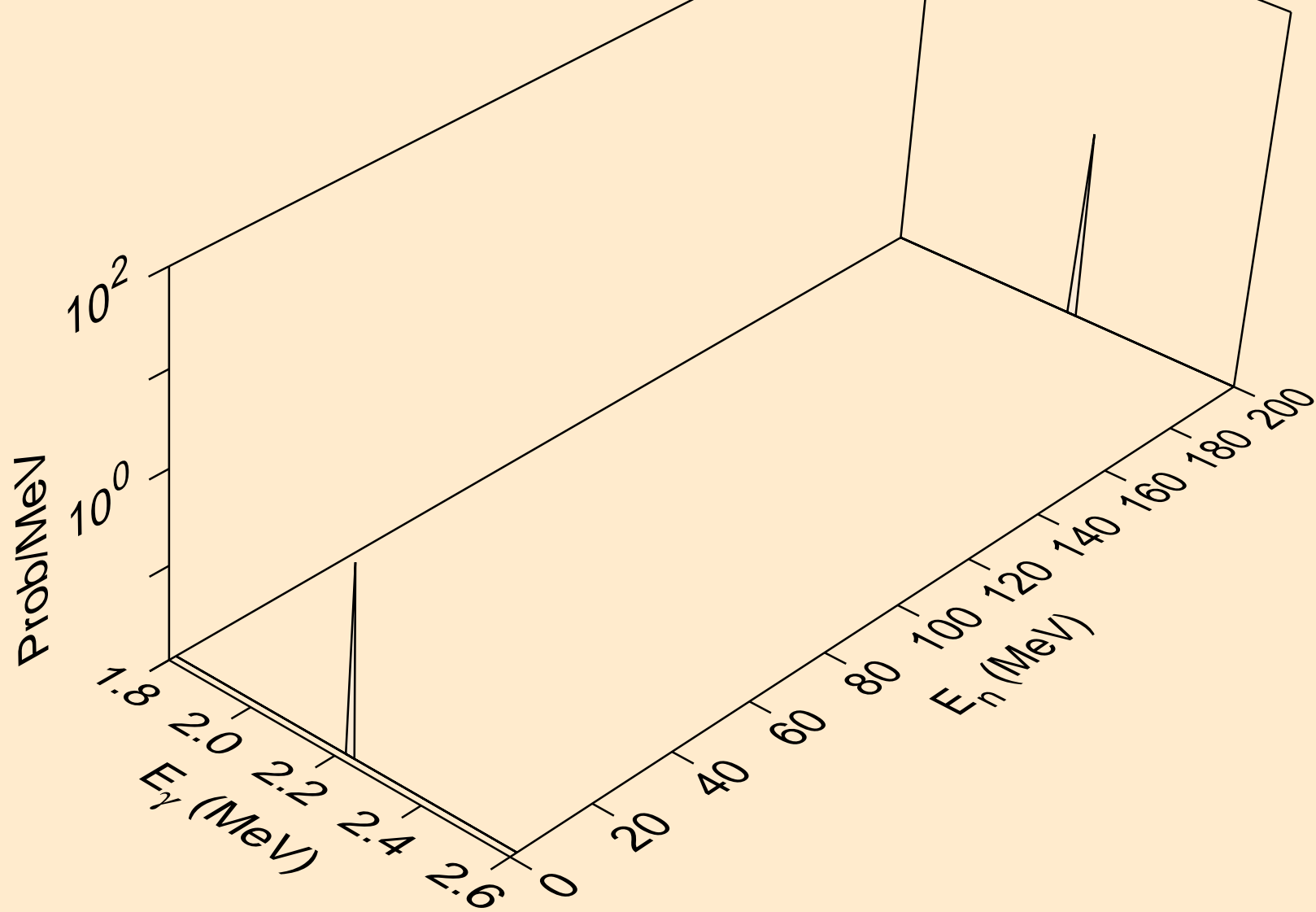




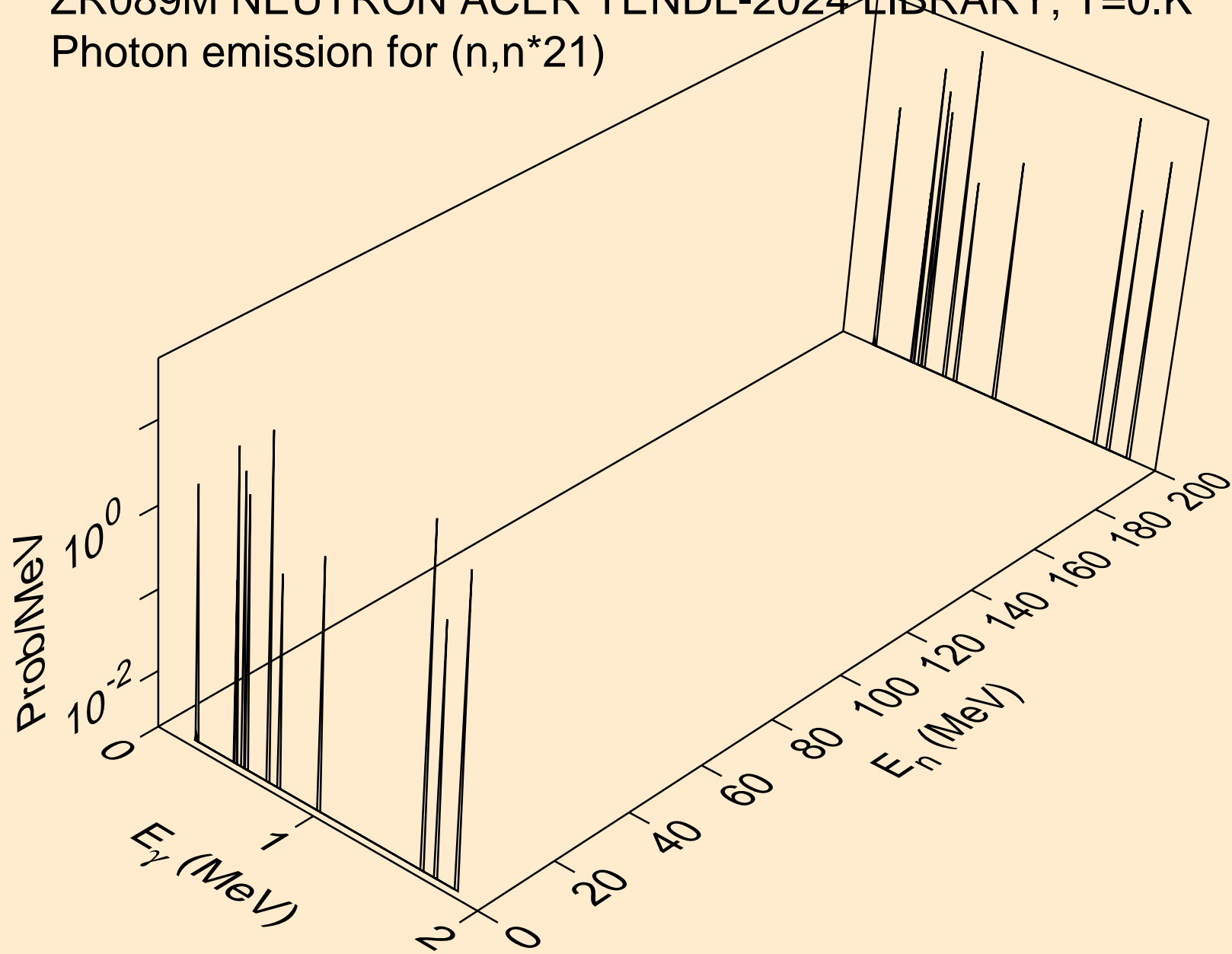
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Photon emission for (n,n\*19)



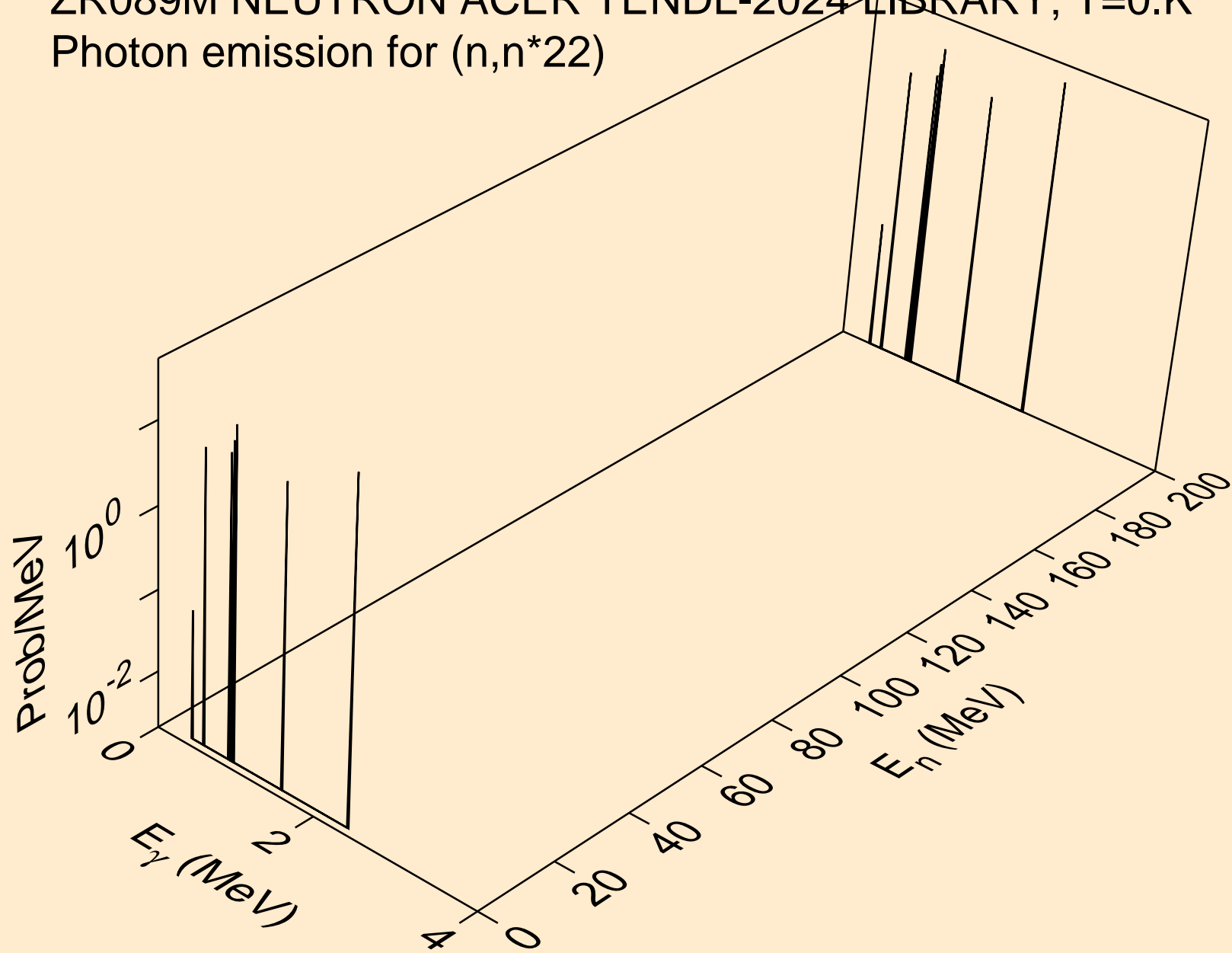
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Photon emission for (n,n\*20)



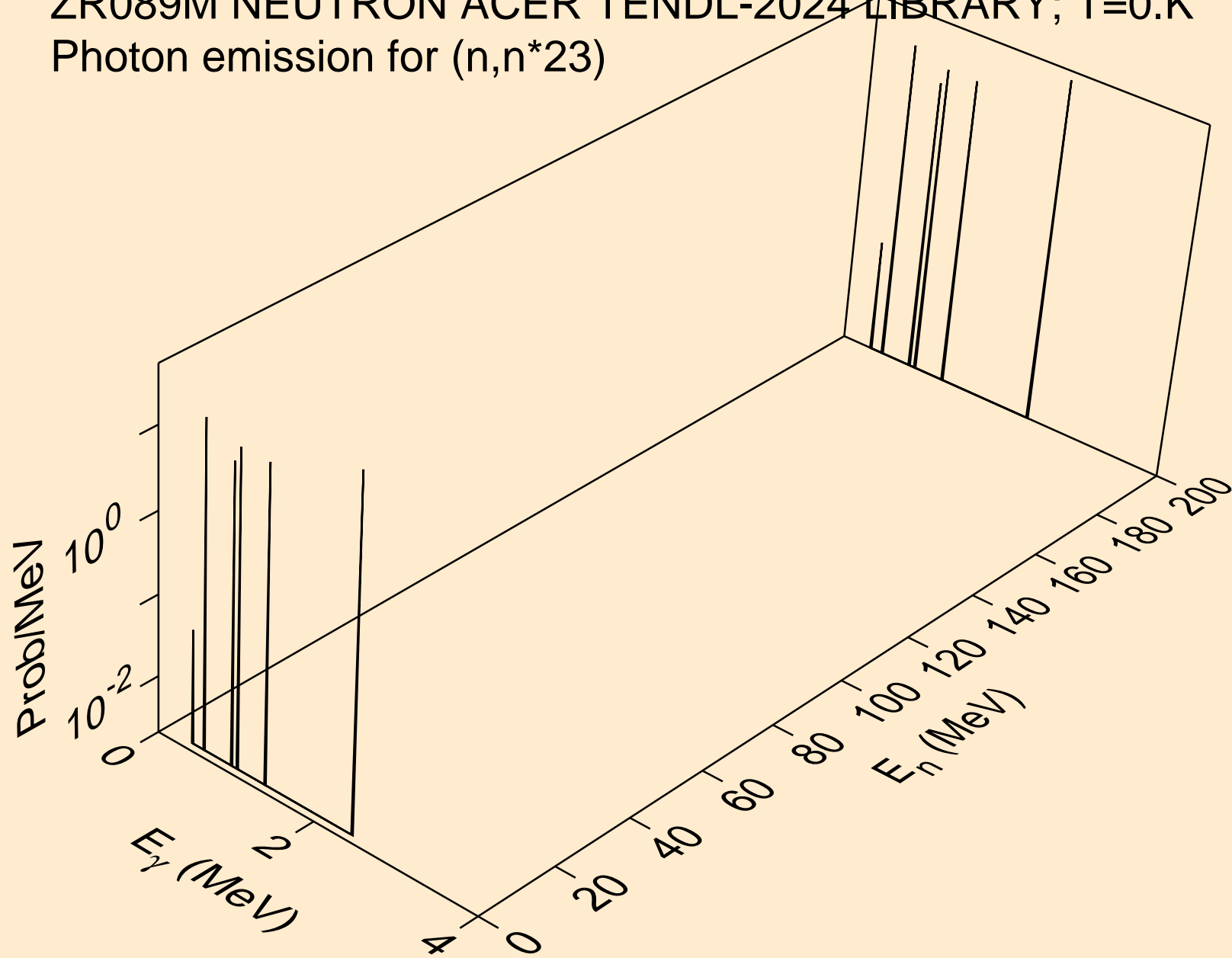
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Photon emission for (n,n\*21)



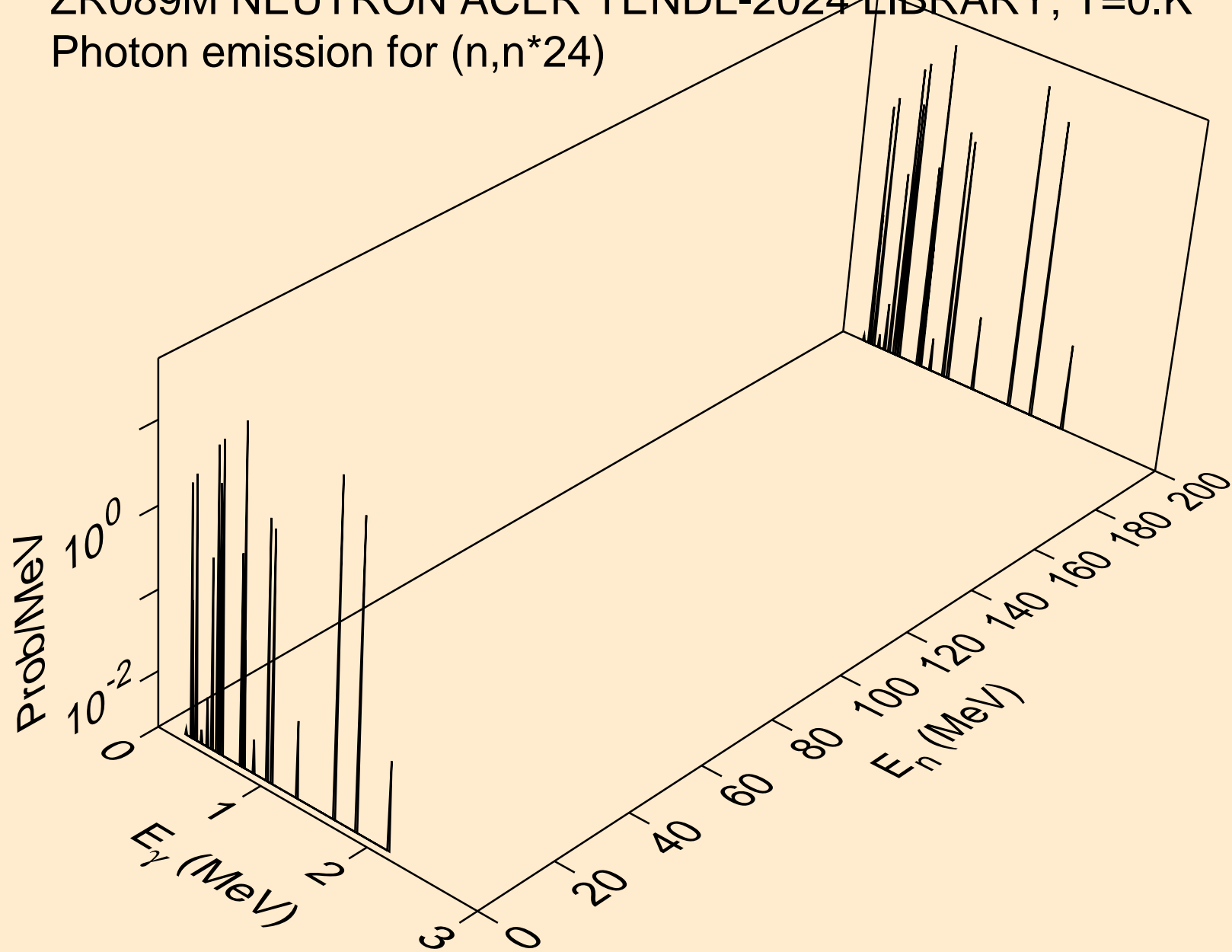
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Photon emission for (n,n\*22)



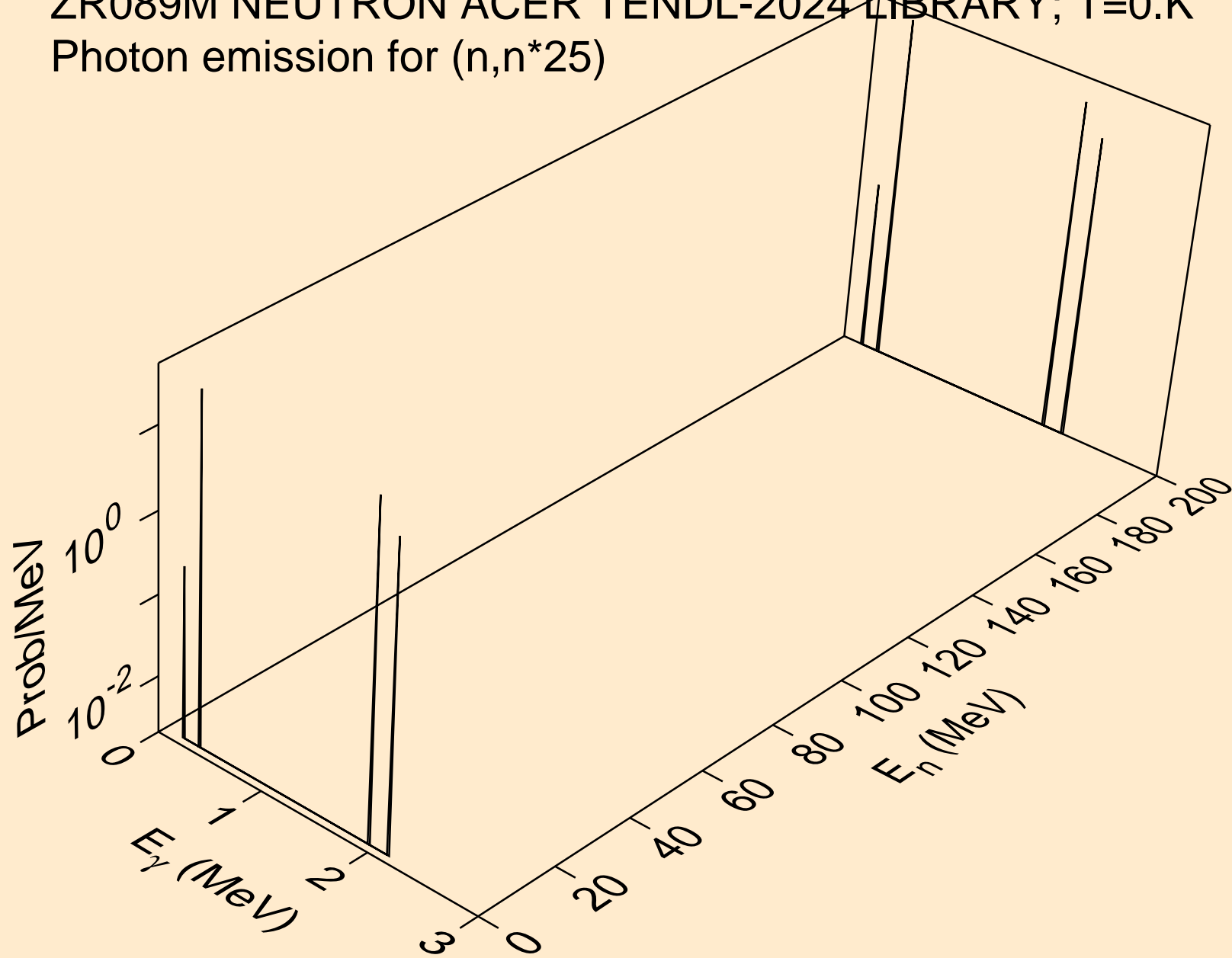
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Photon emission for (n,n\*23)



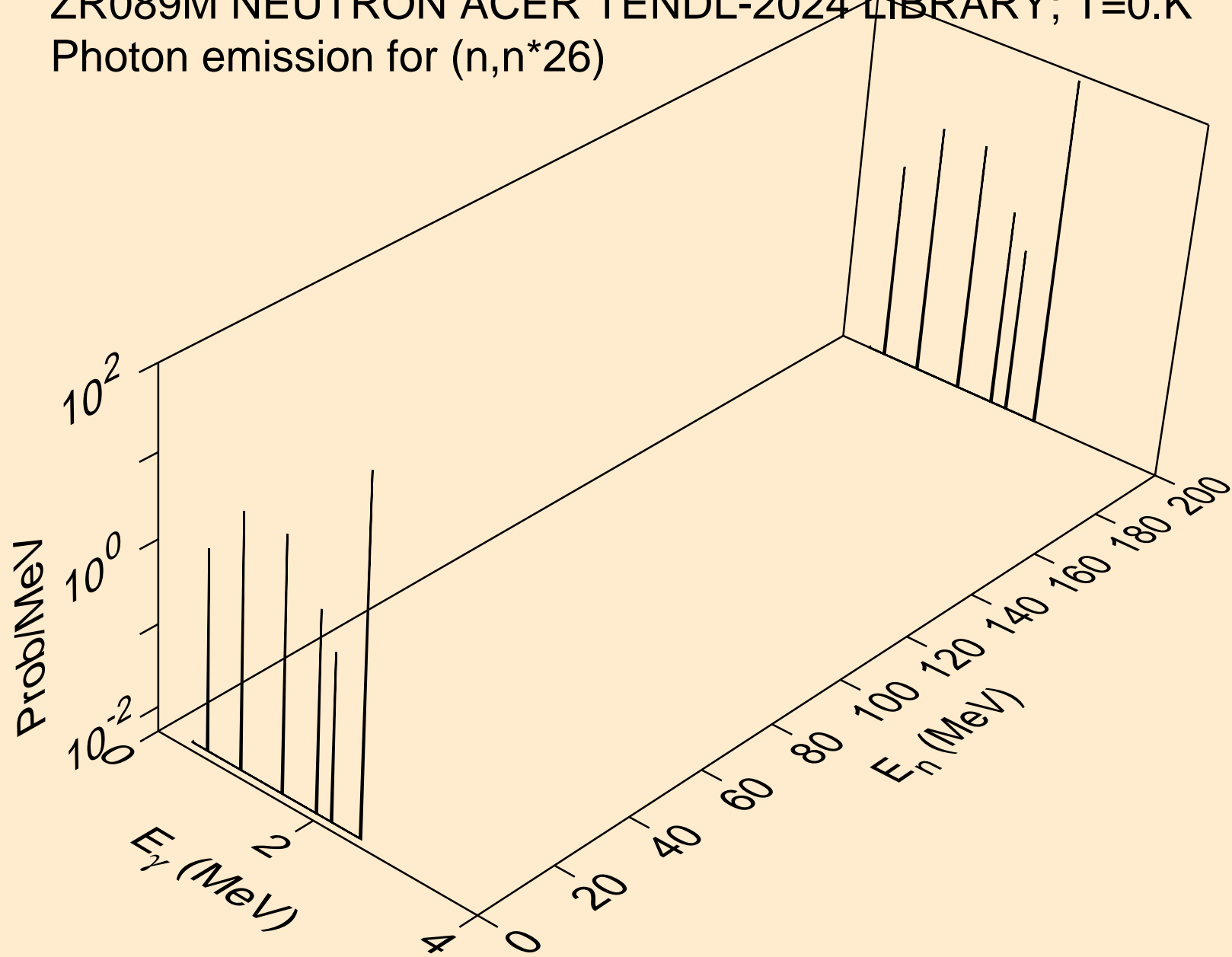
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Photon emission for (n,n\*24)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*25)

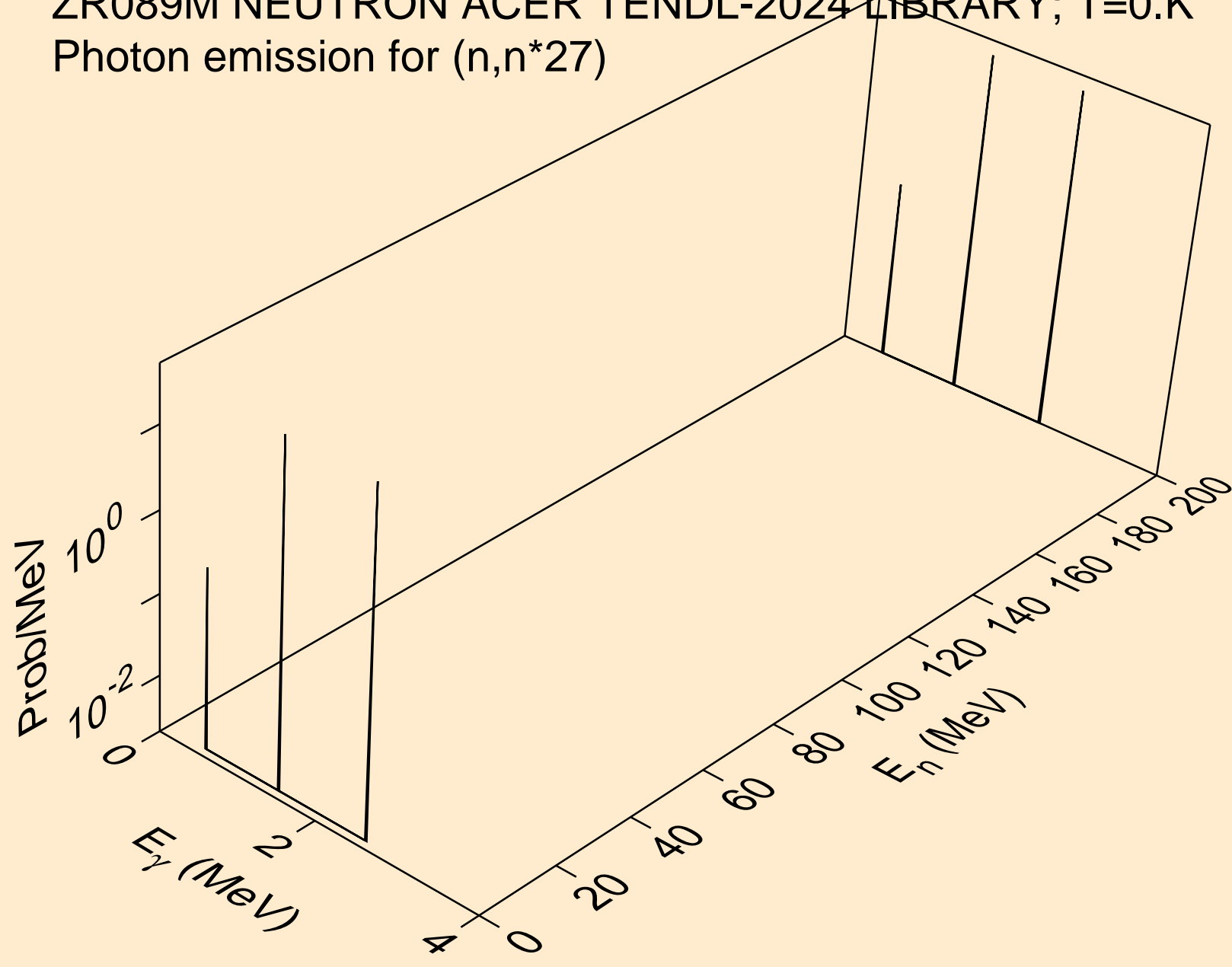


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Photon emission for (n,n\*26)

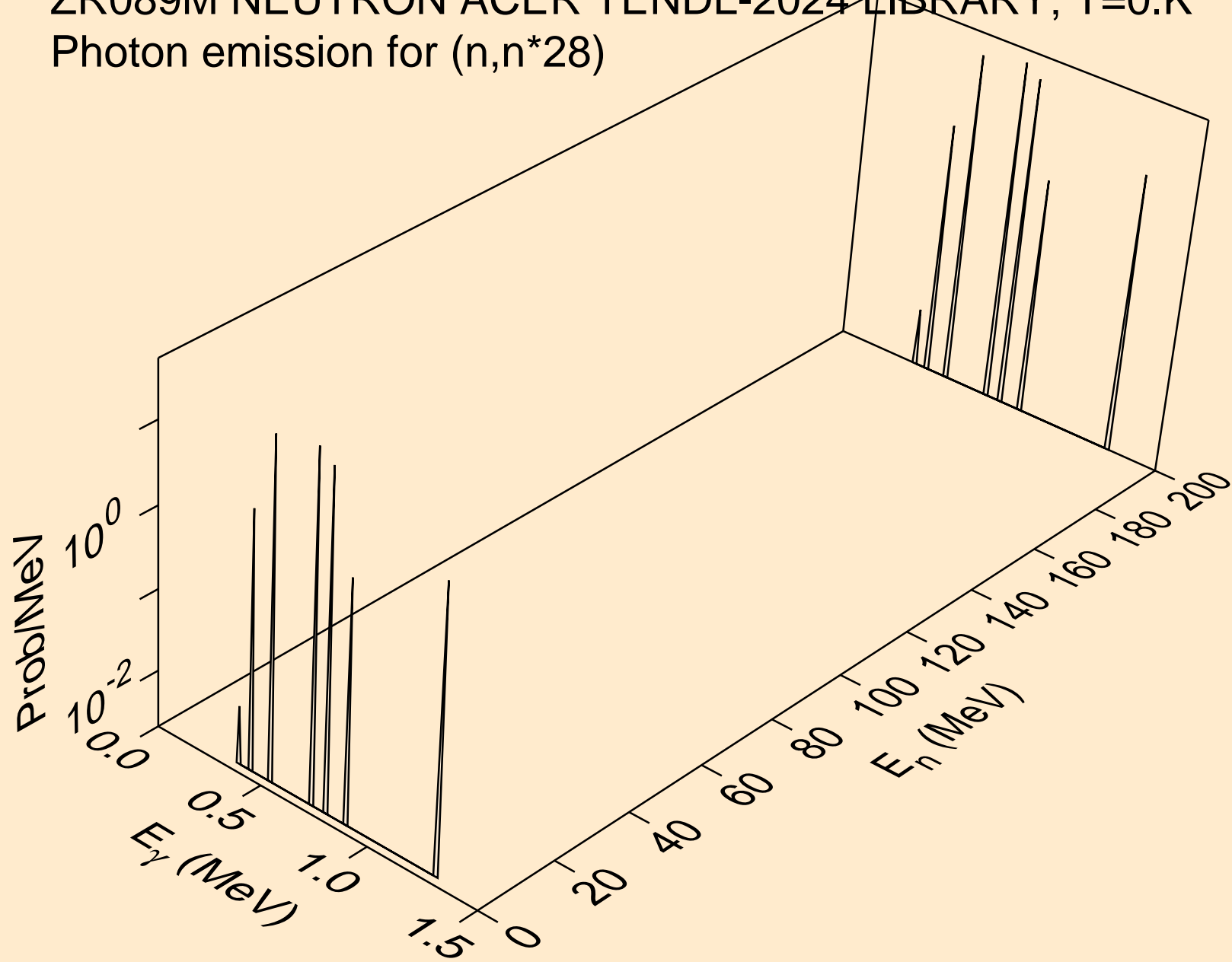




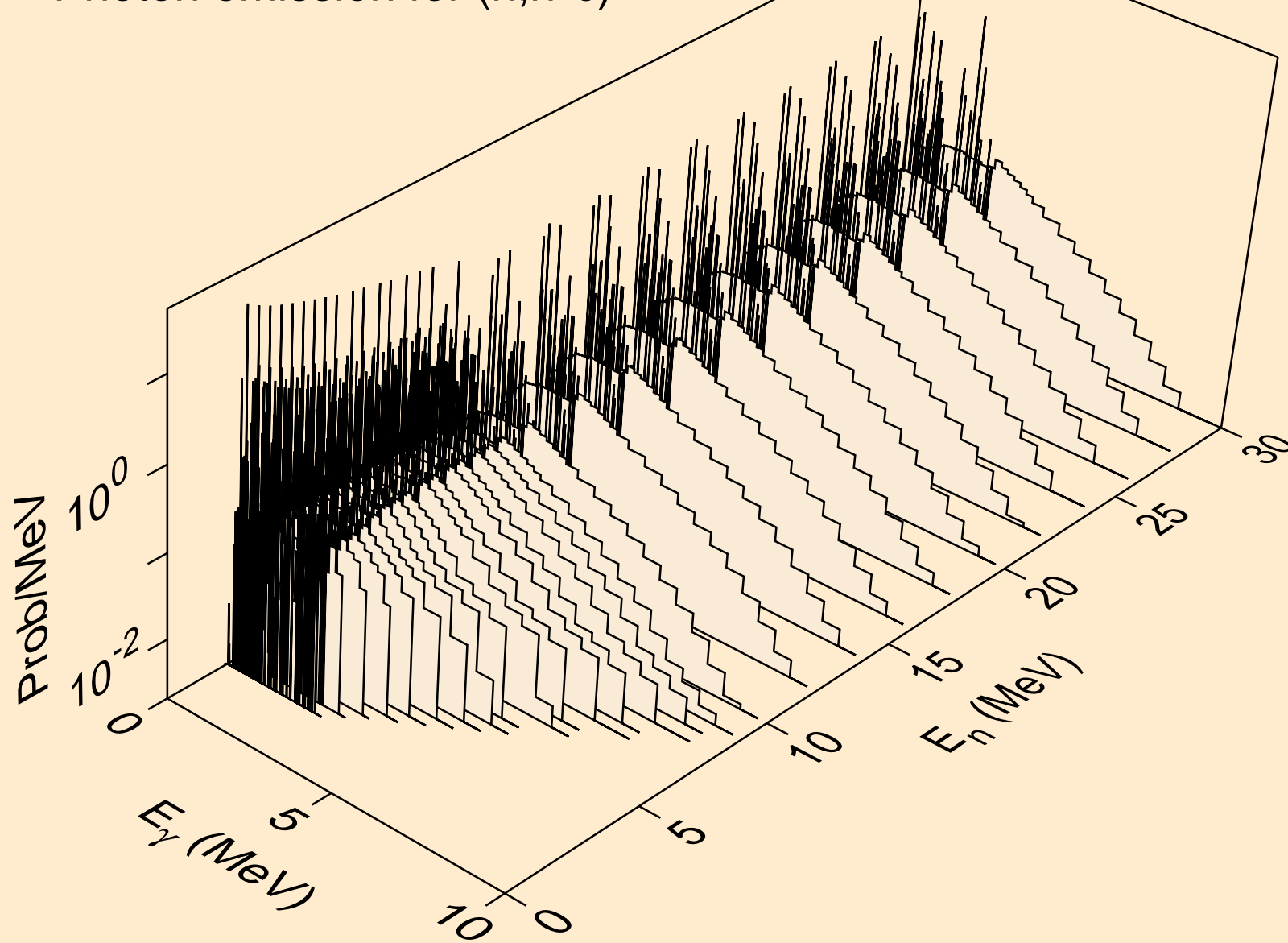
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Photon emission for (n,n\*27)



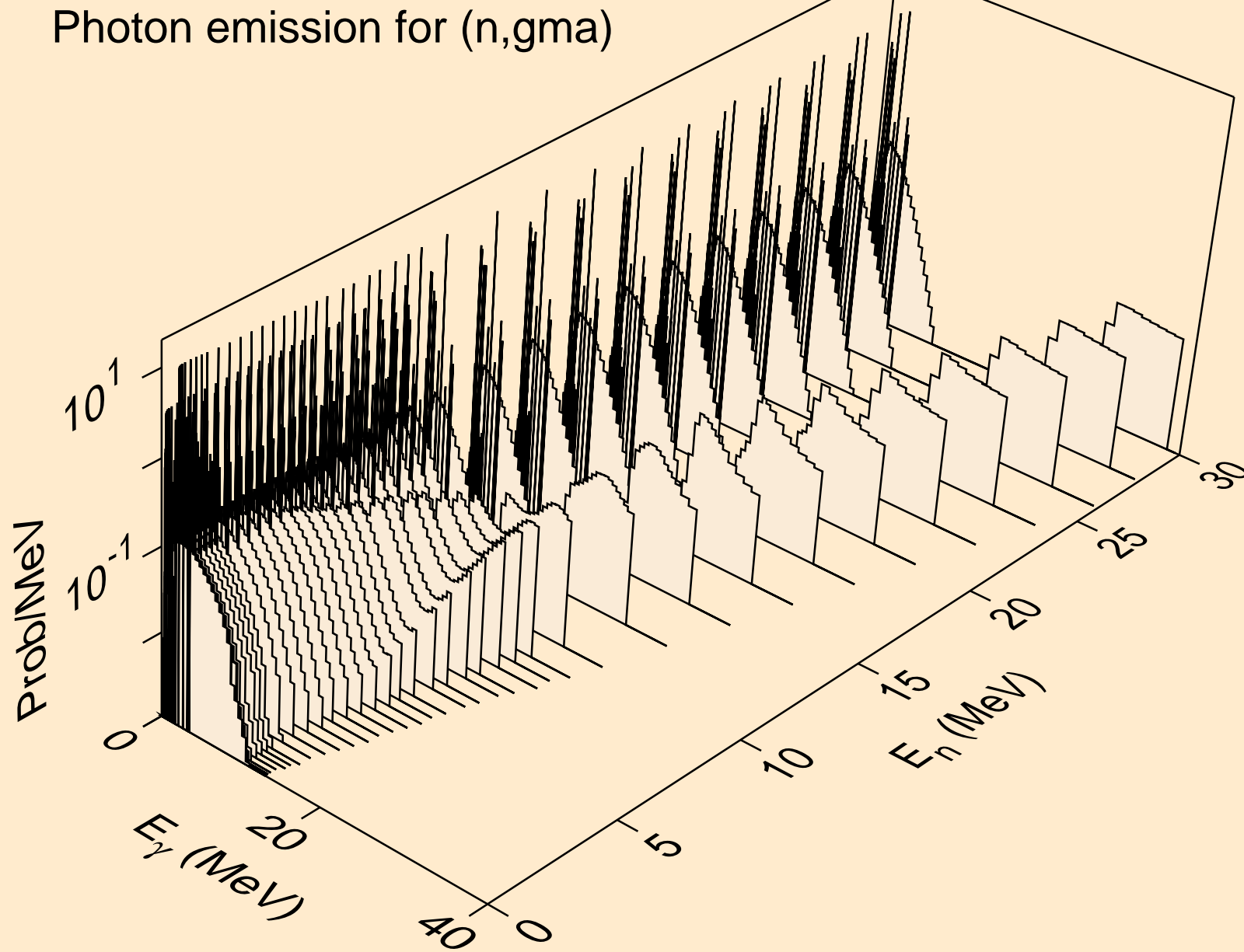
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Photon emission for (n,n\*28)



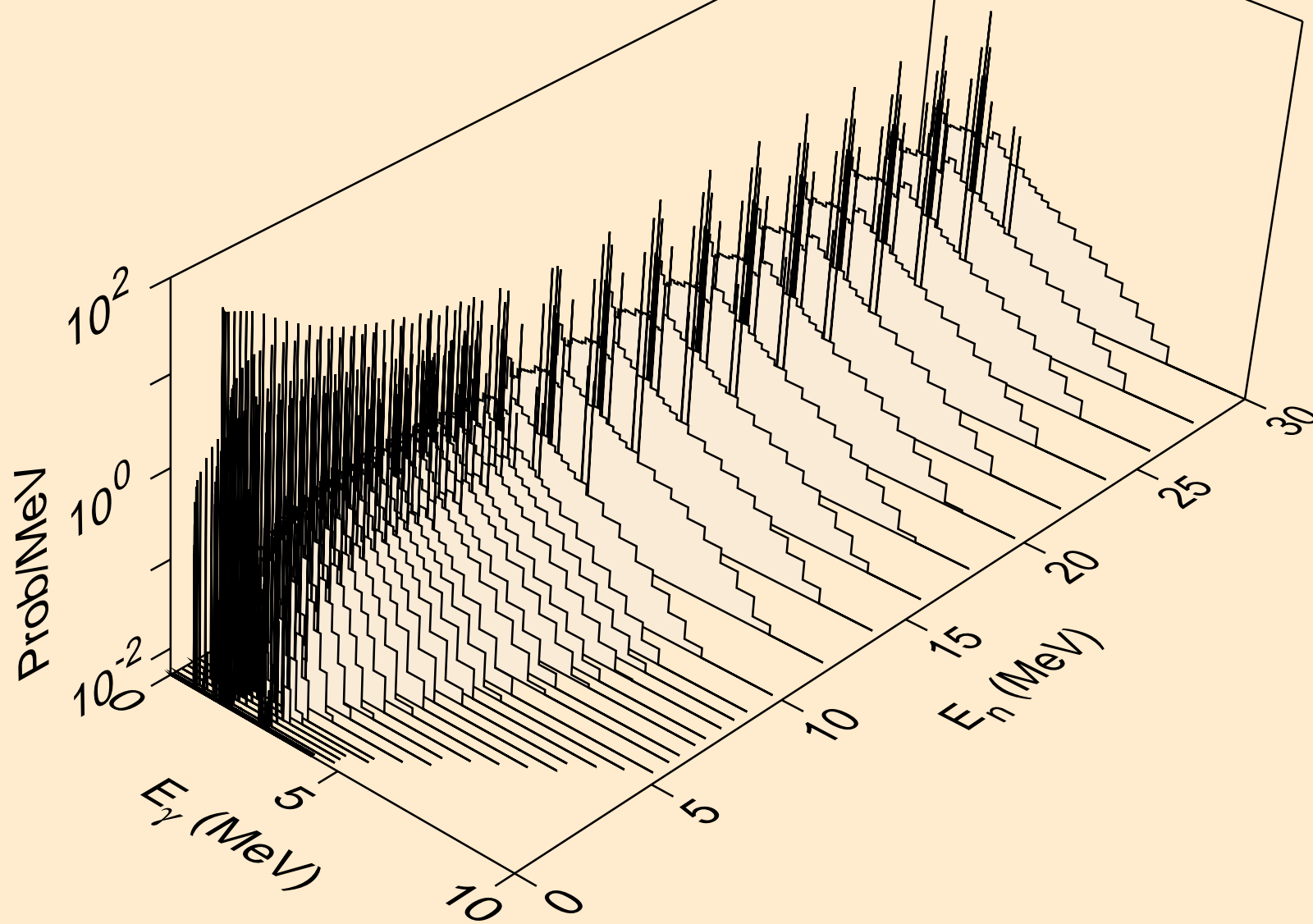
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Photon emission for (n,n\*c)



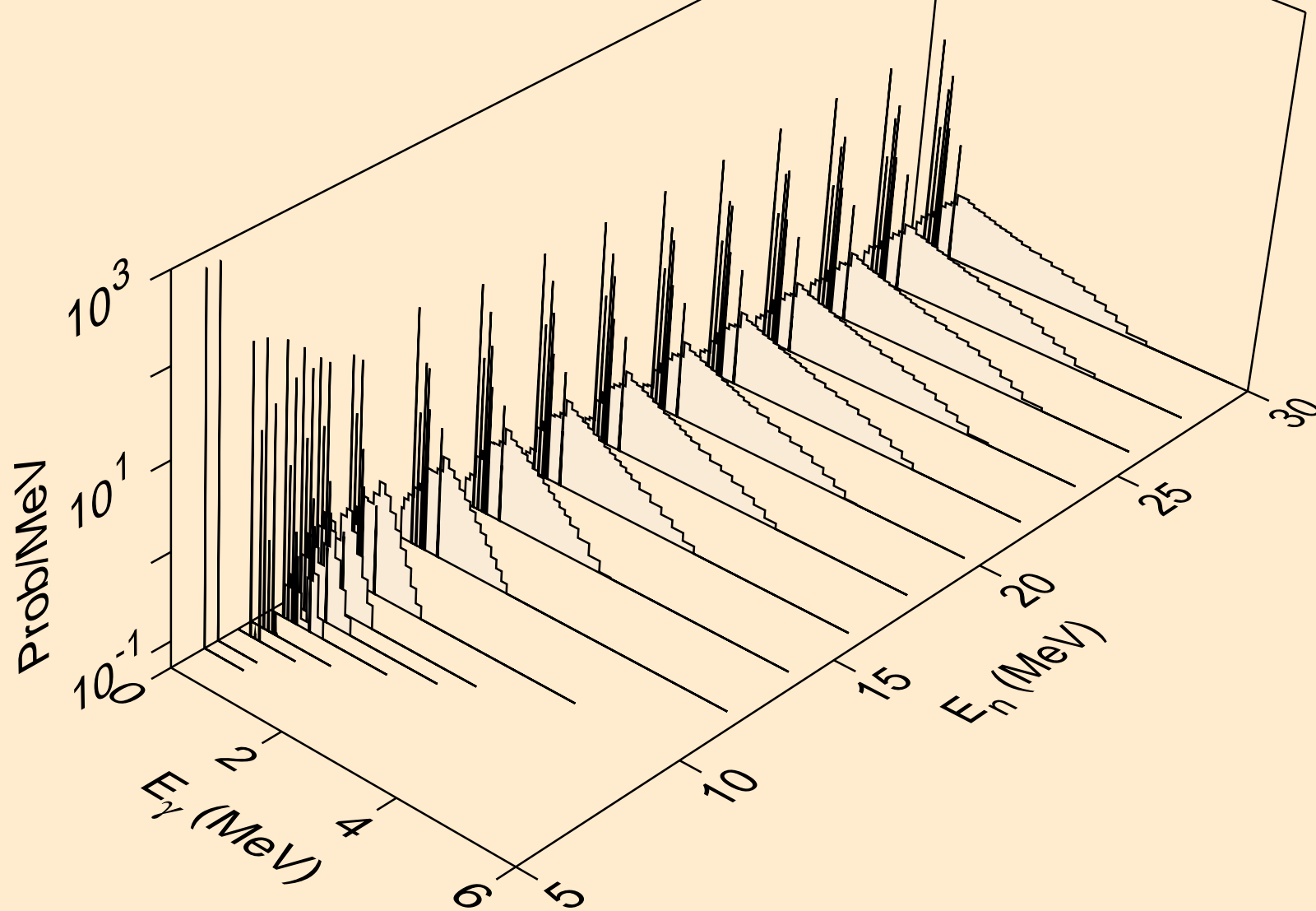
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Photon emission for (n,gma)



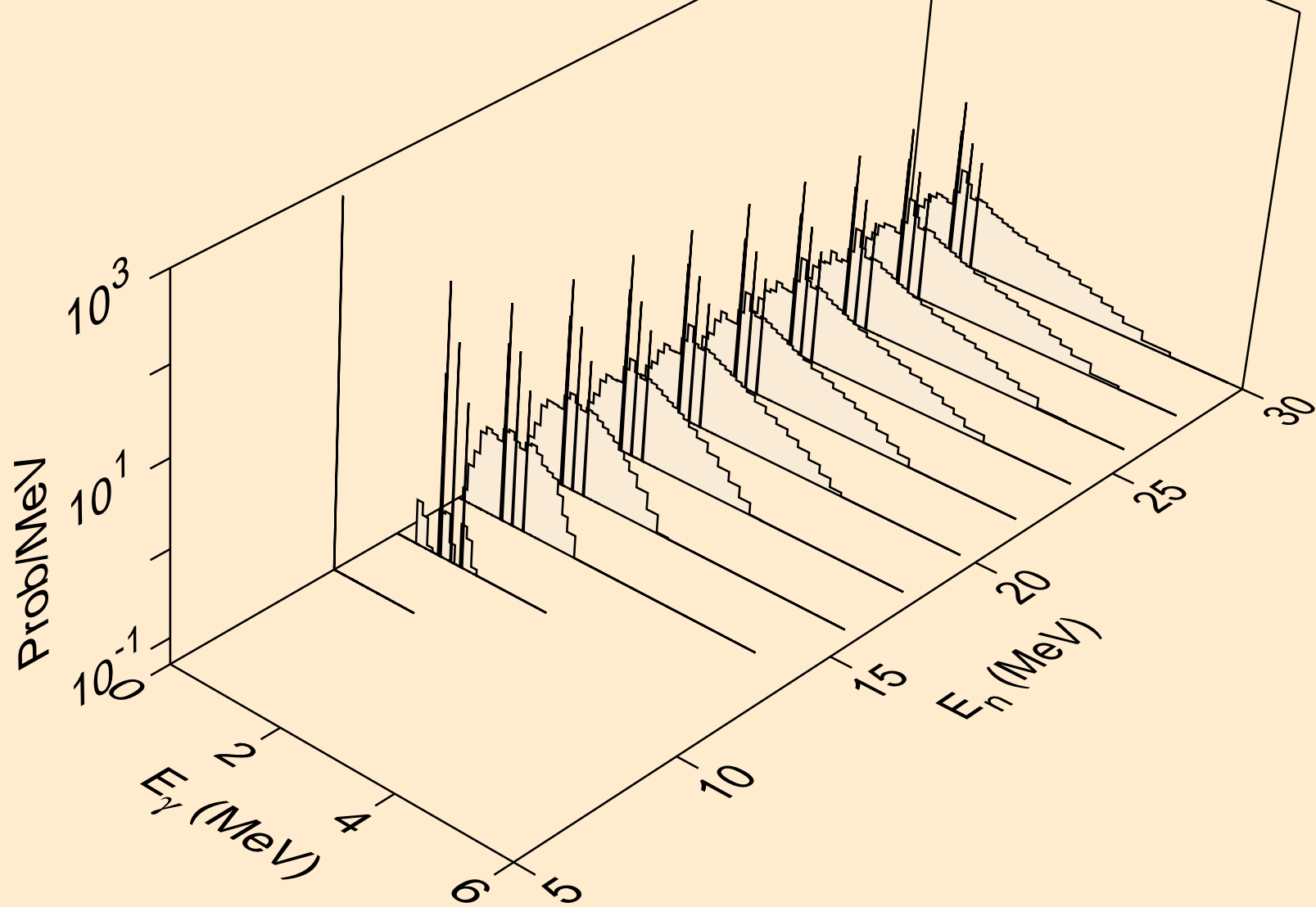
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Photon emission for (n,p)



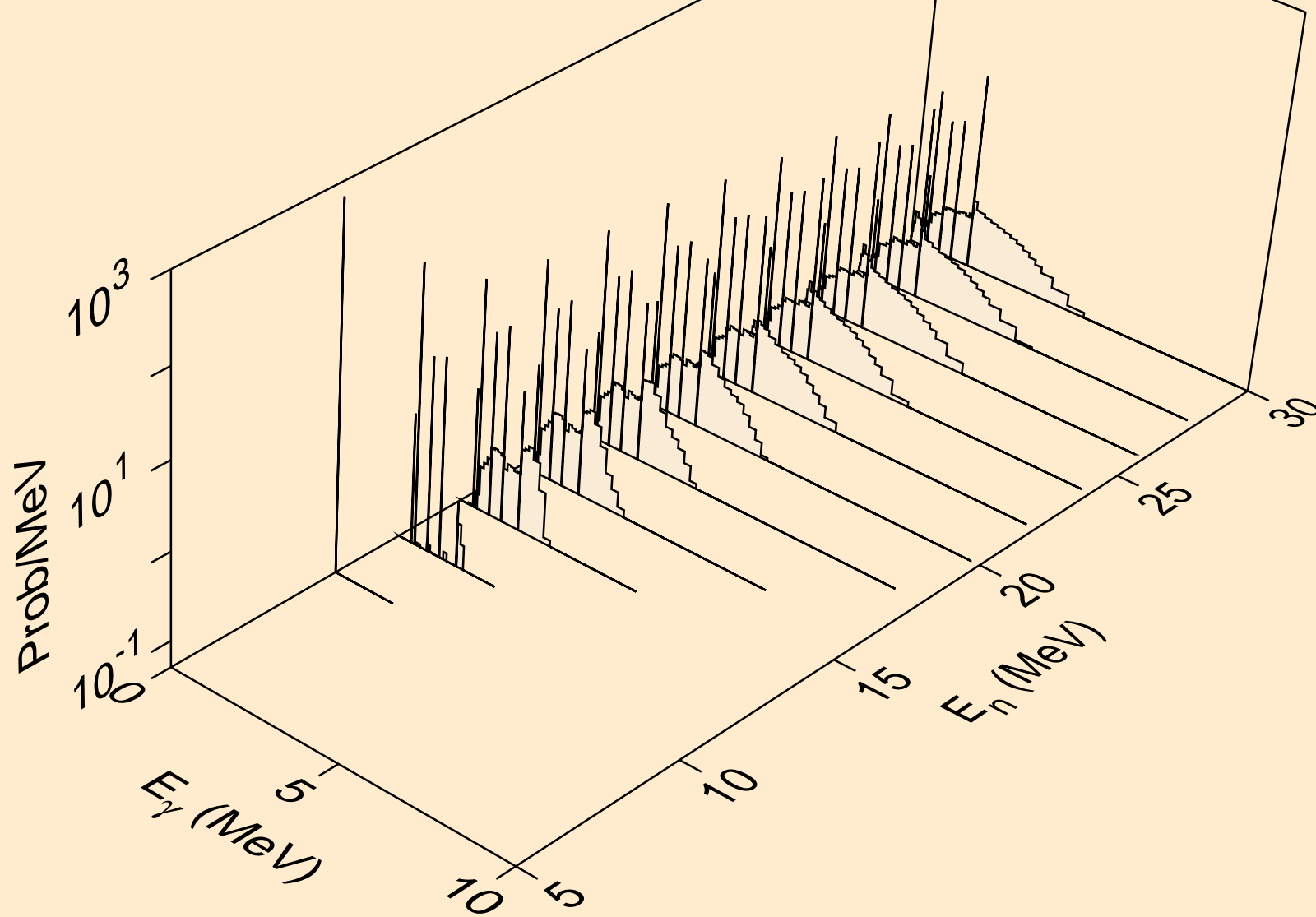
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Photon emission for (n,d)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)

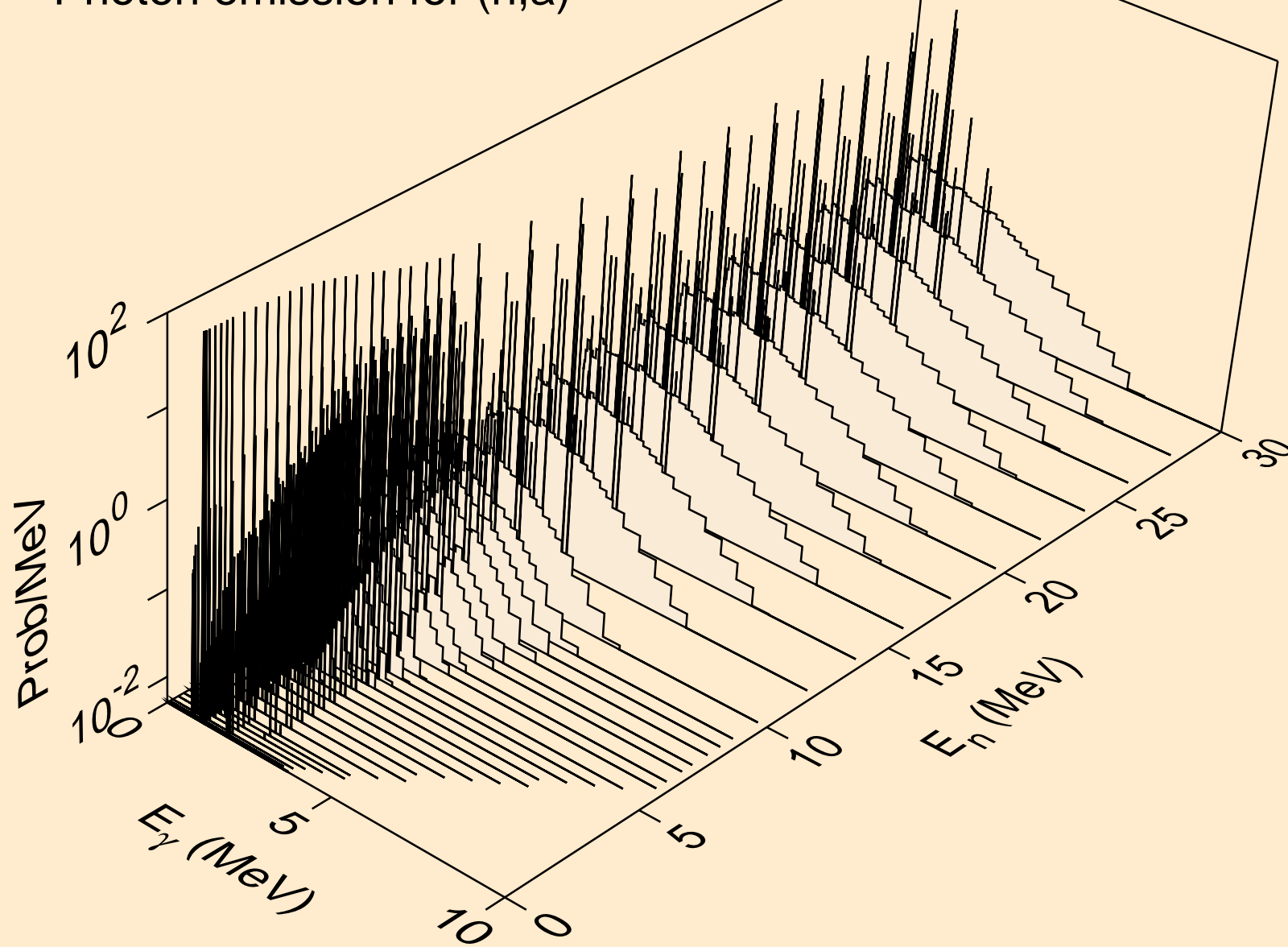


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Photon emission for (n,he3)

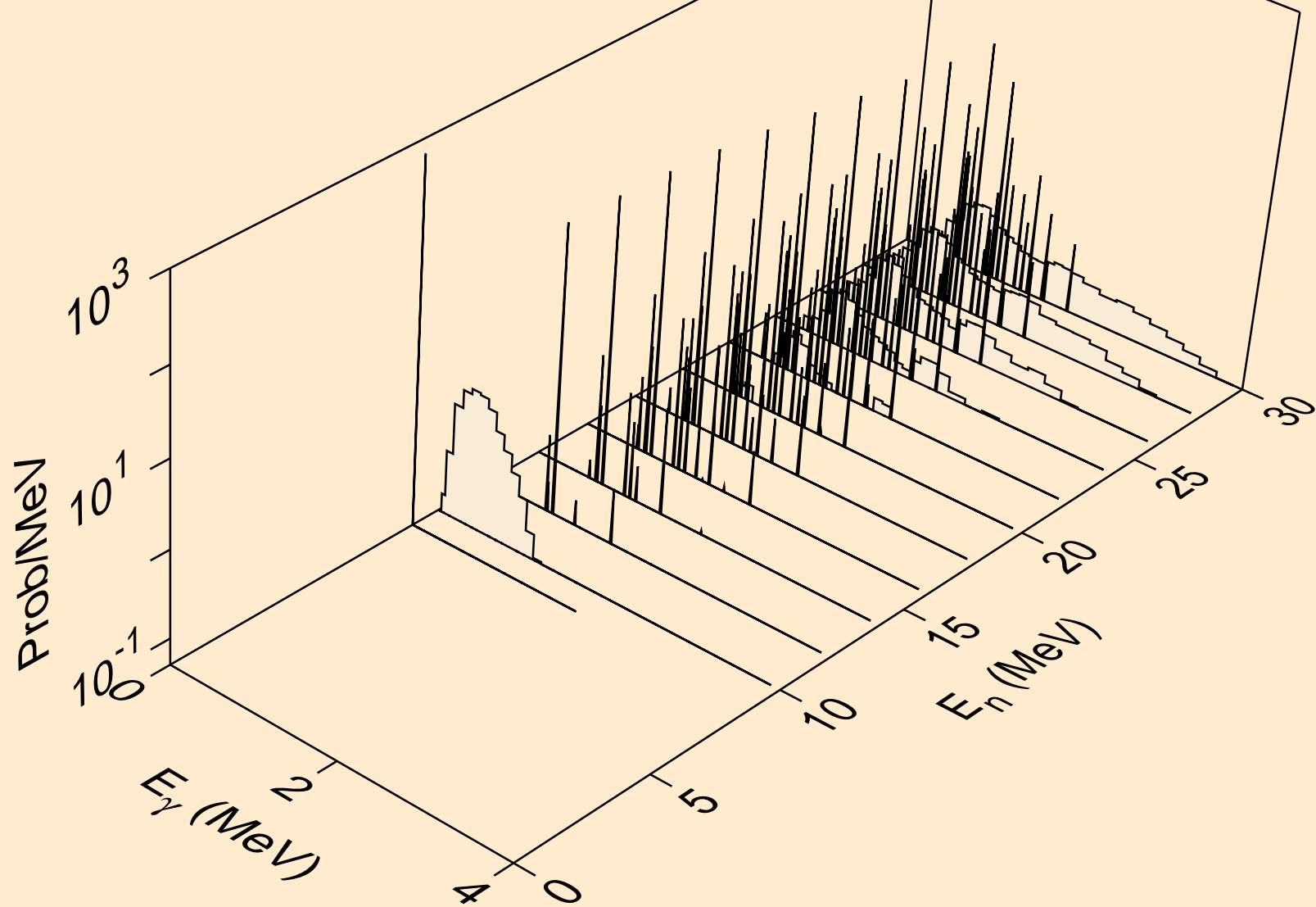




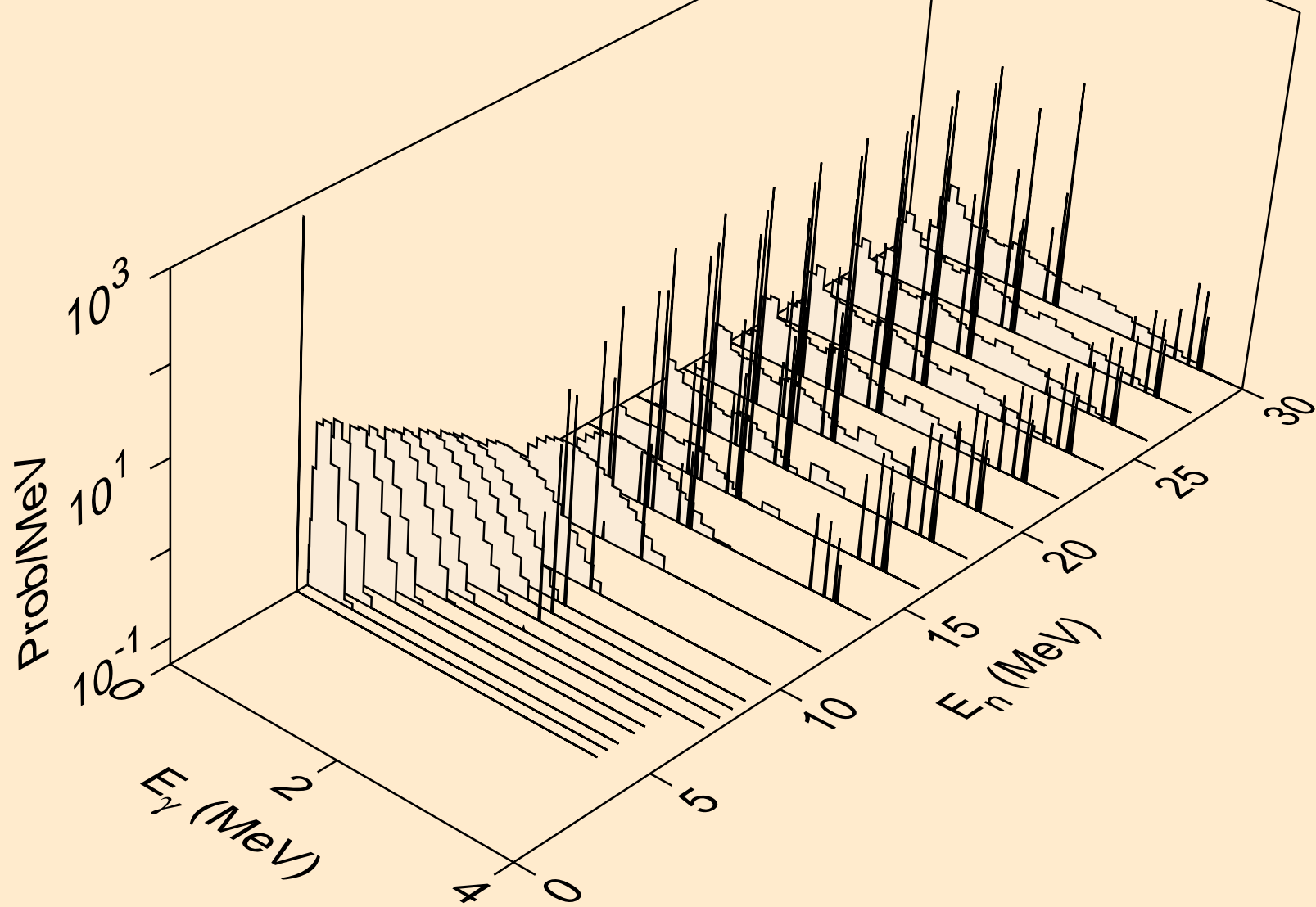
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Photon emission for (n,a)



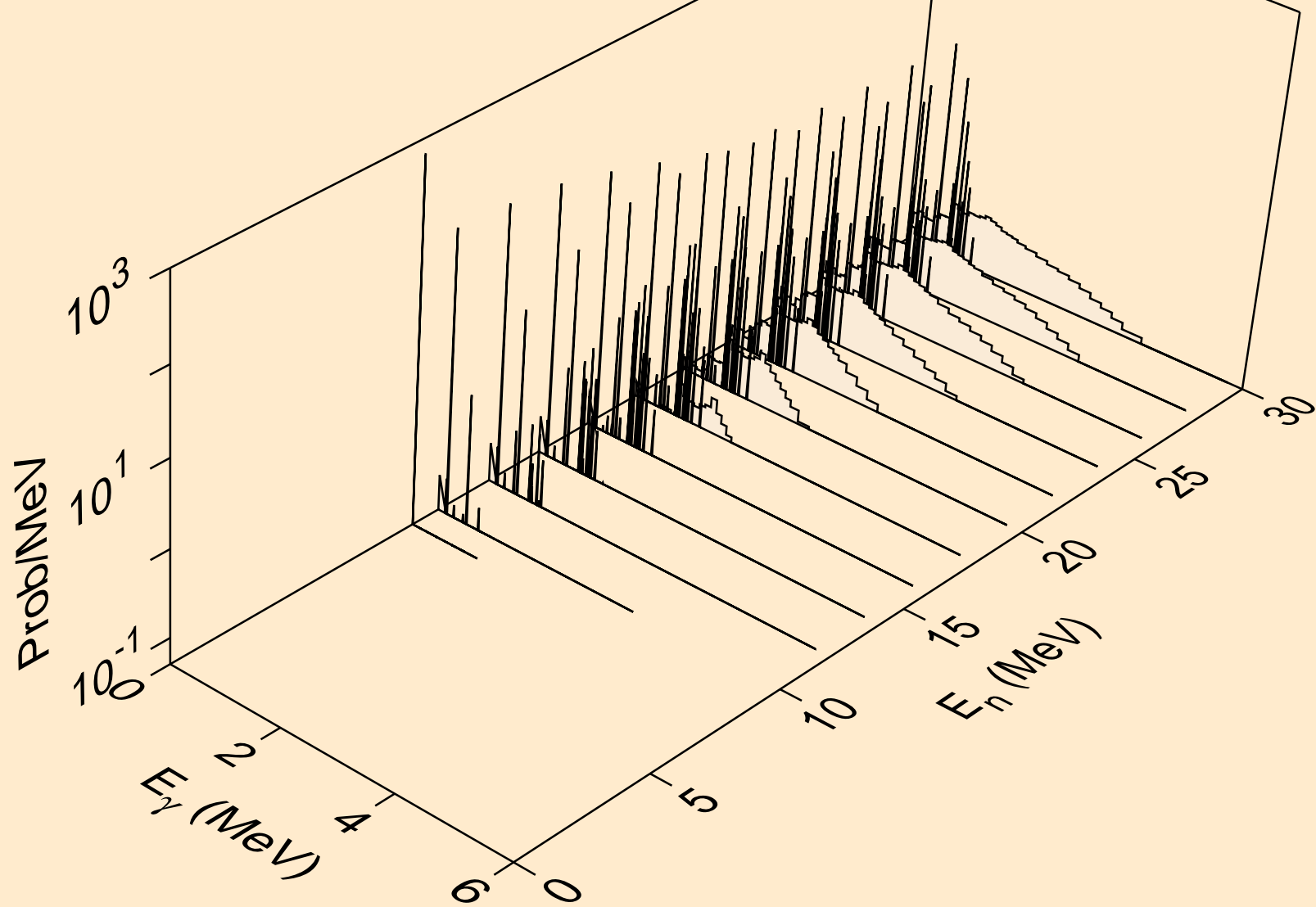
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Photon emission for (n,2a)



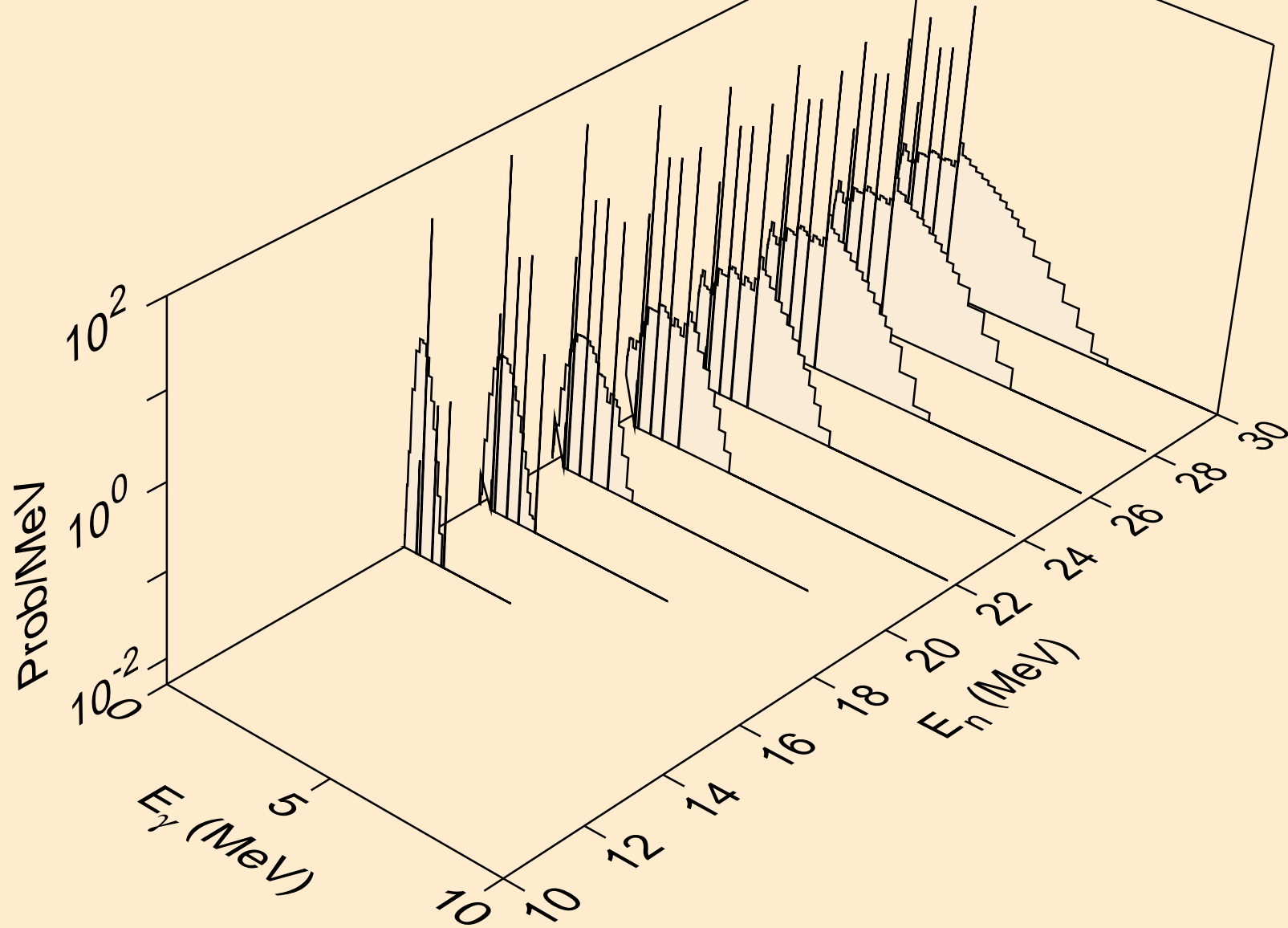
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Photon emission for (n,2p)



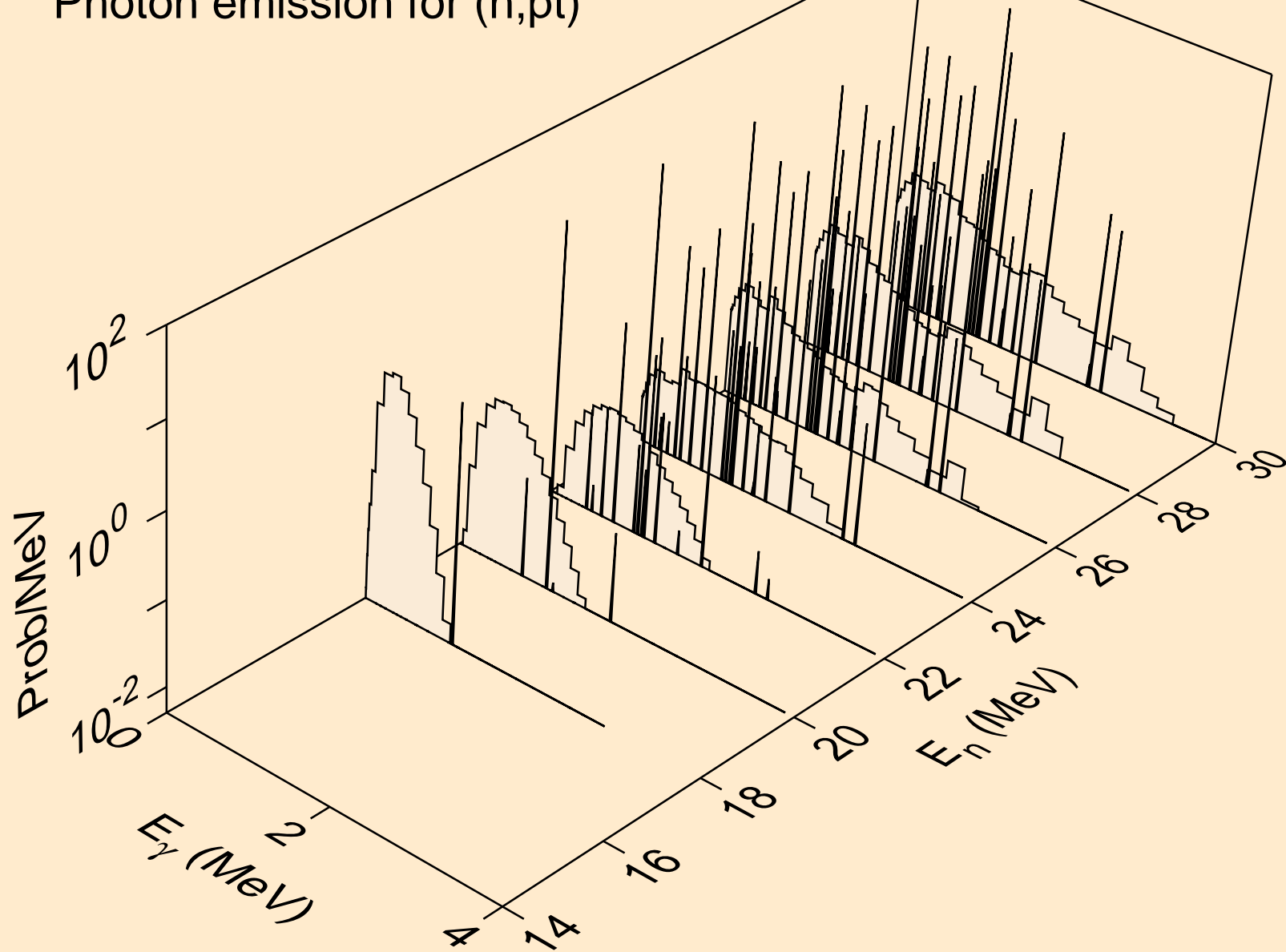
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Photon emission for (n,p $\alpha$ )



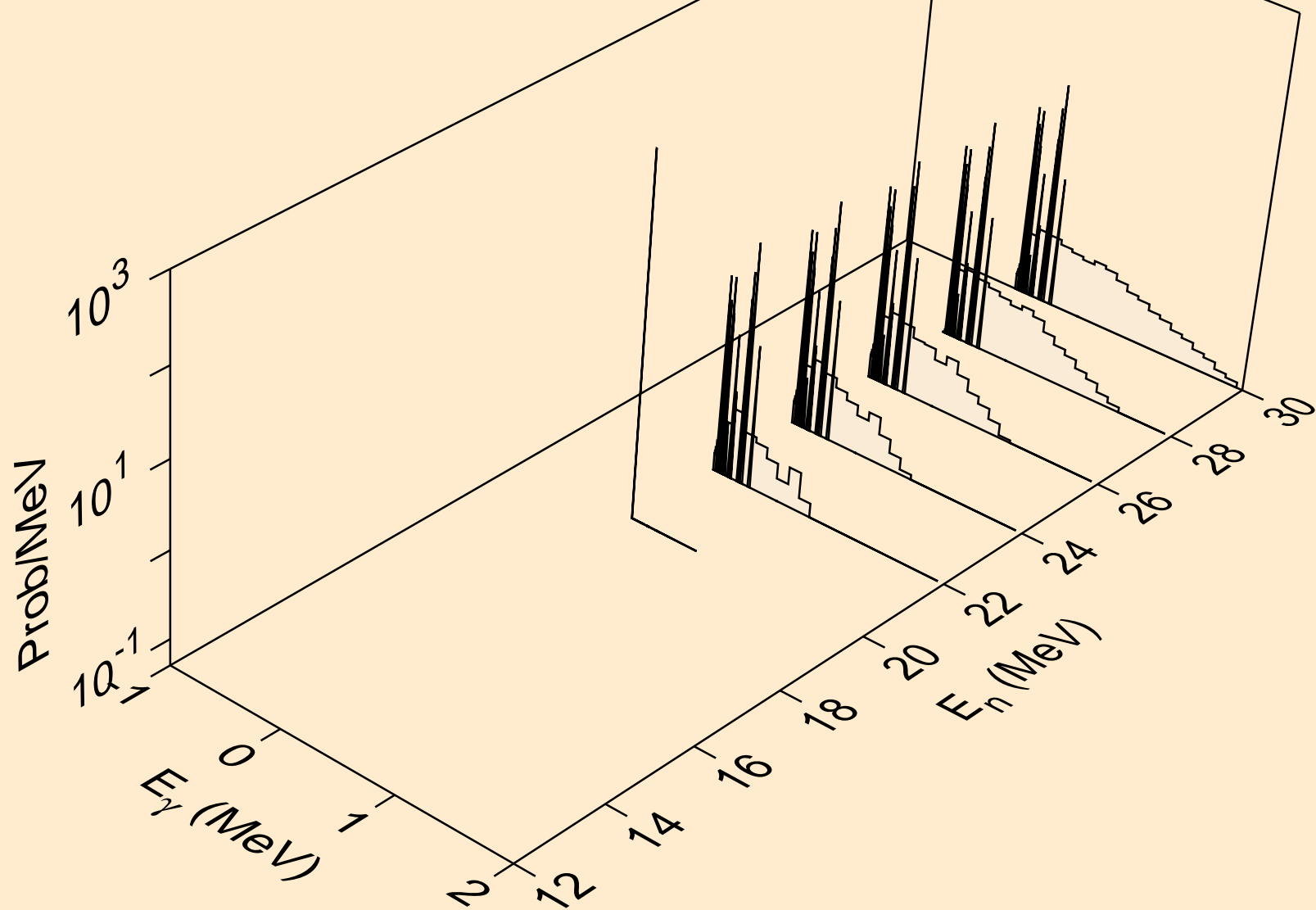
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Photon emission for (n,pd)



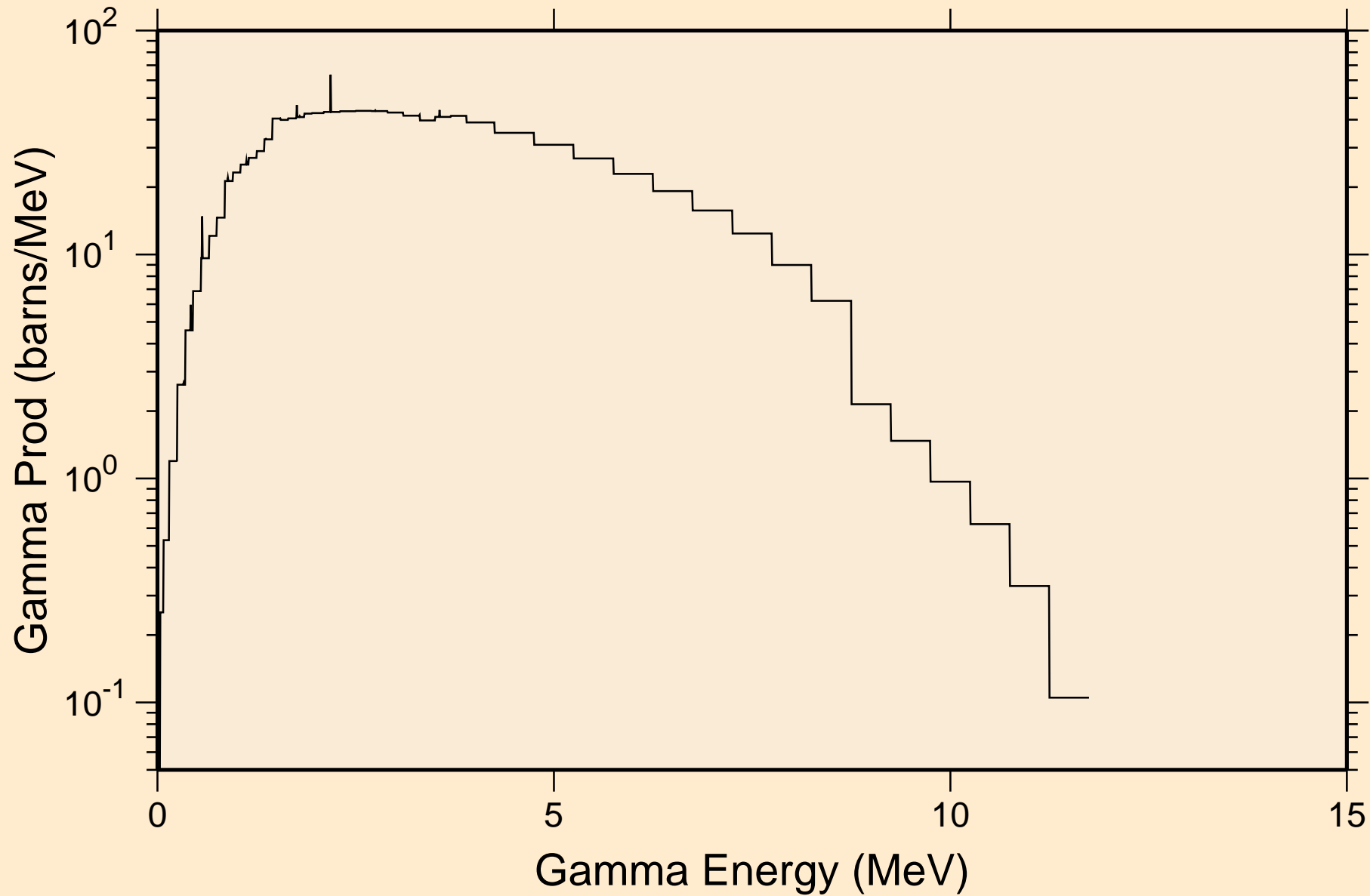
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Photon emission for (n,pt)



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Photon emission for (n,da)

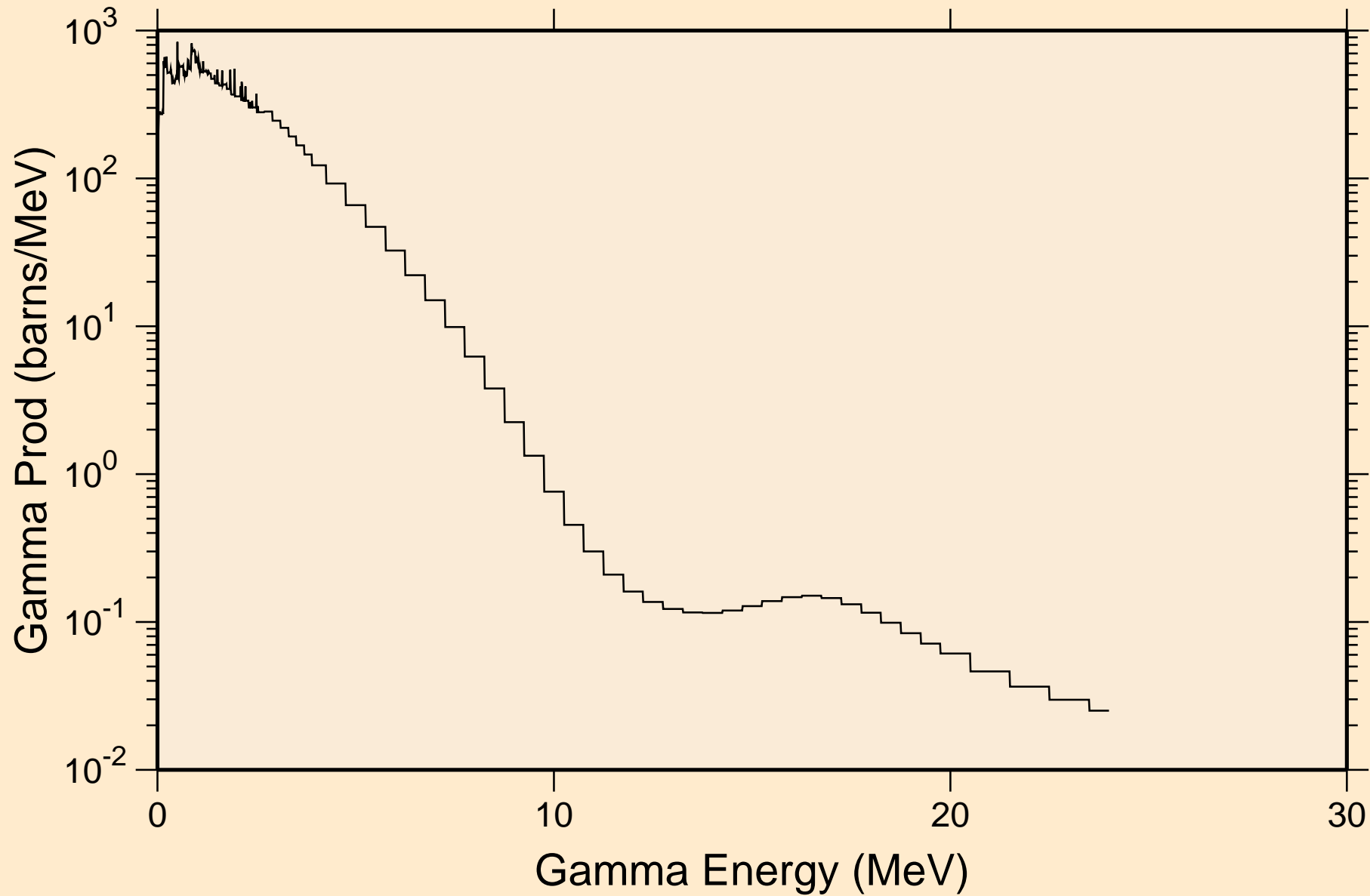


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thermal capture photon spectrum



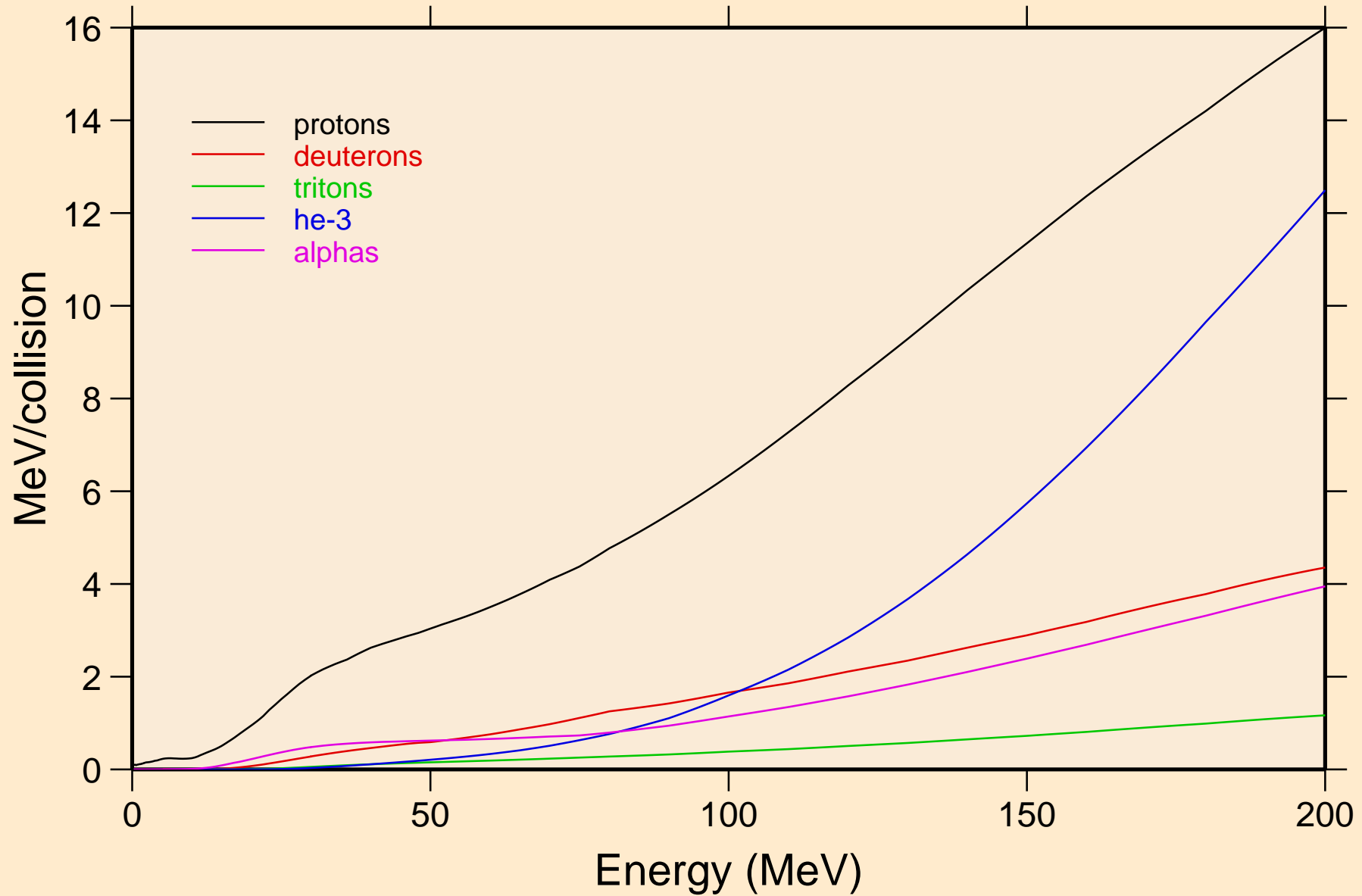


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14 MeV photon spectrum

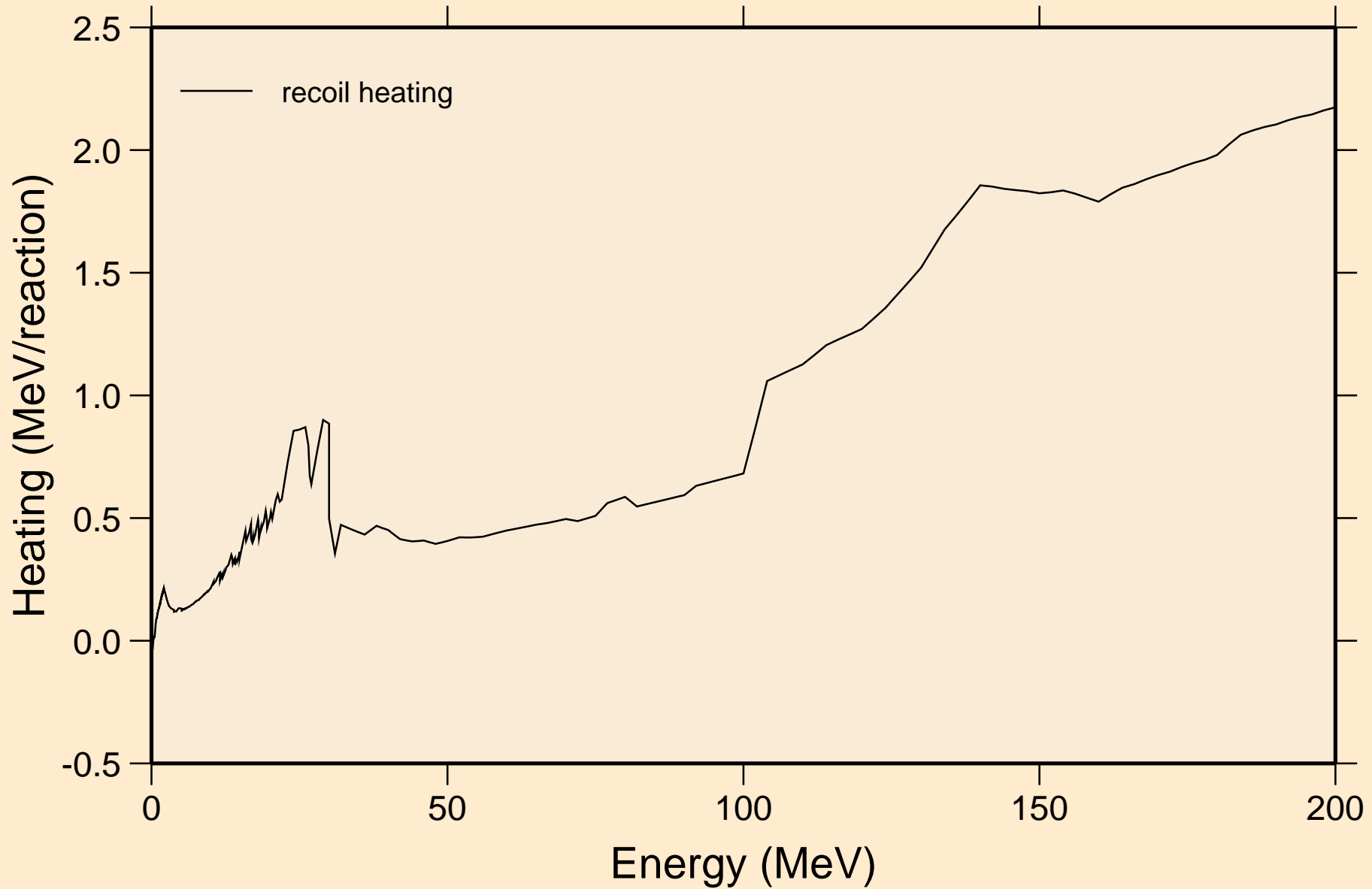


# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions

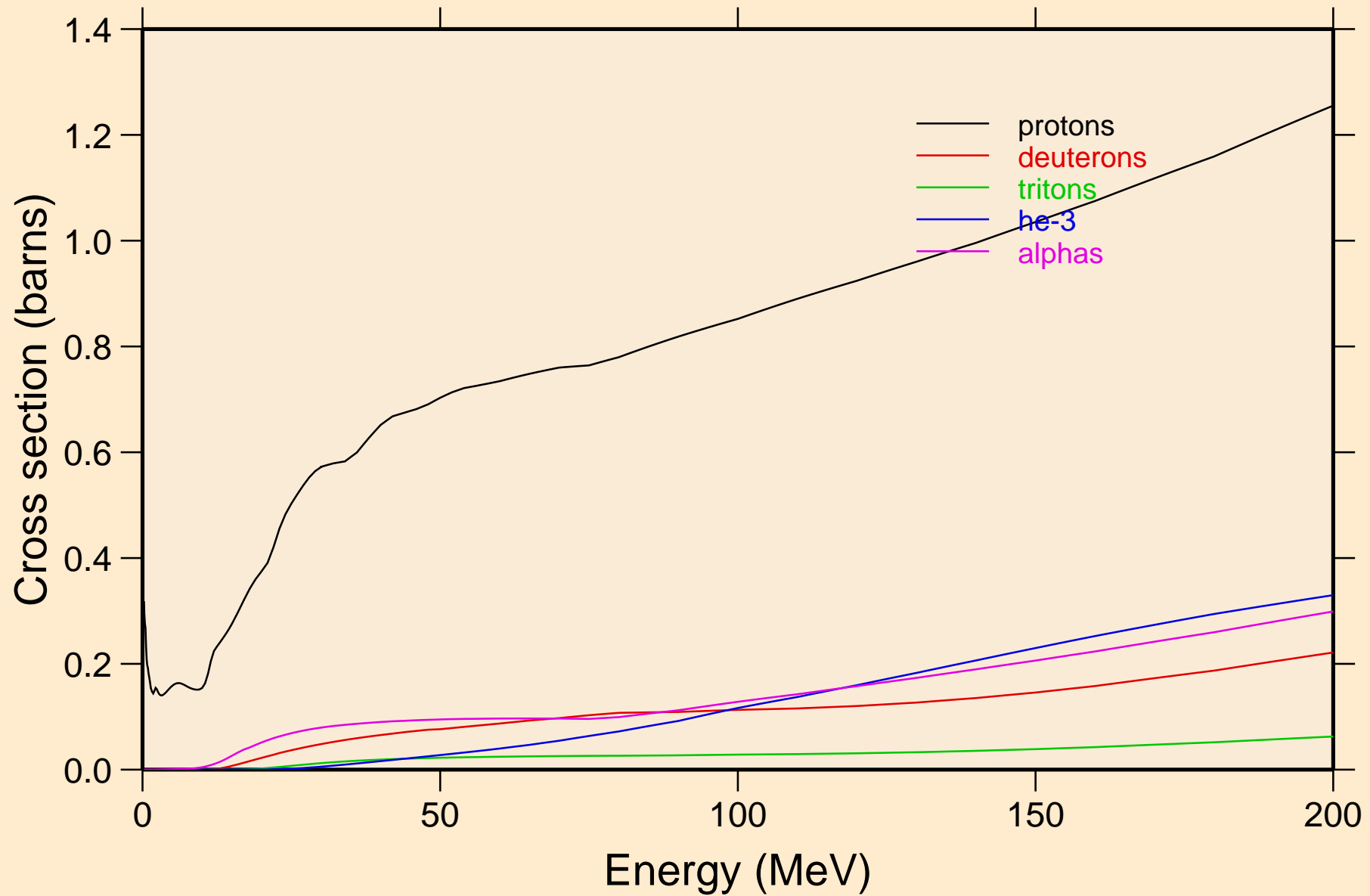


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Recoil Heating

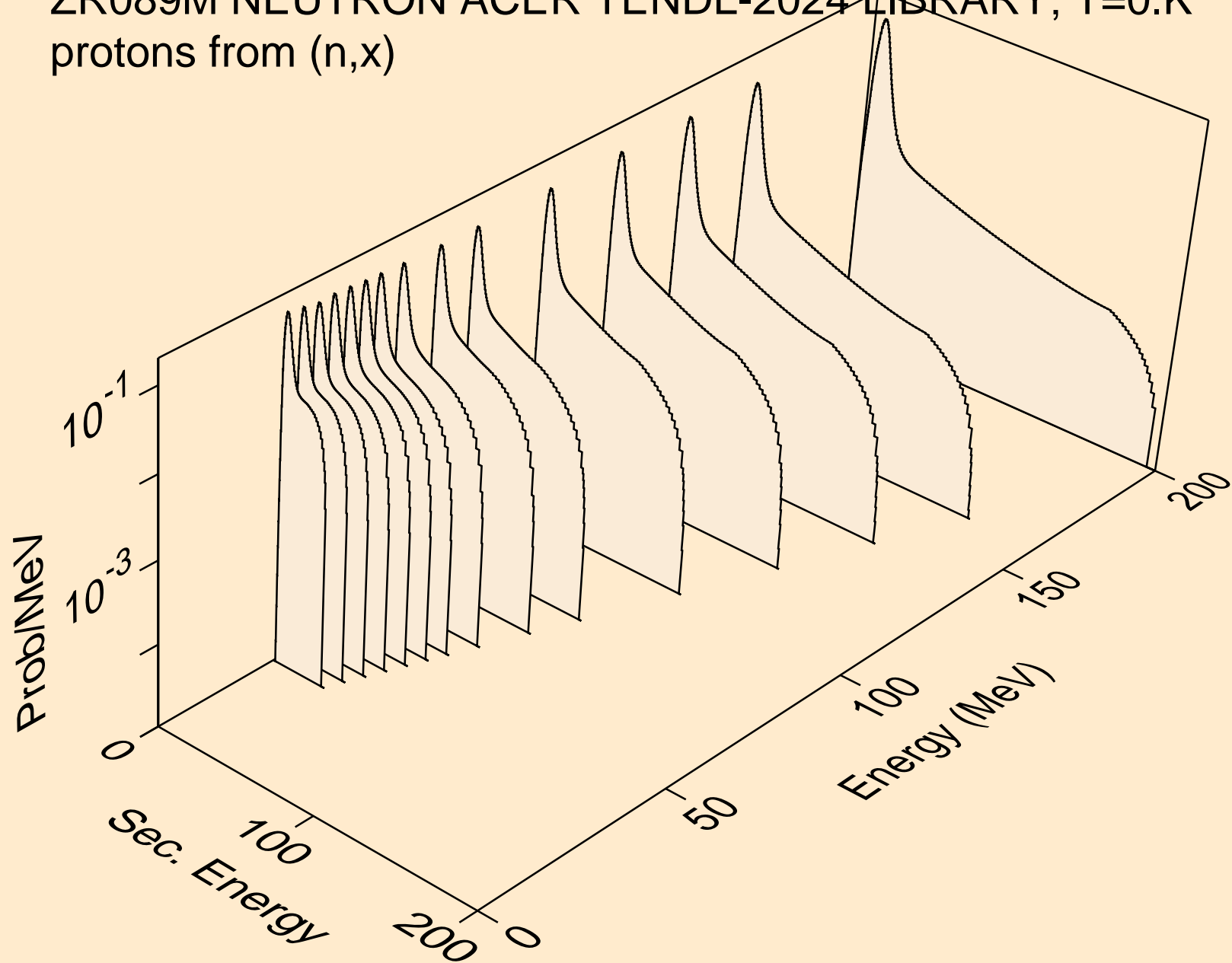


# ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K

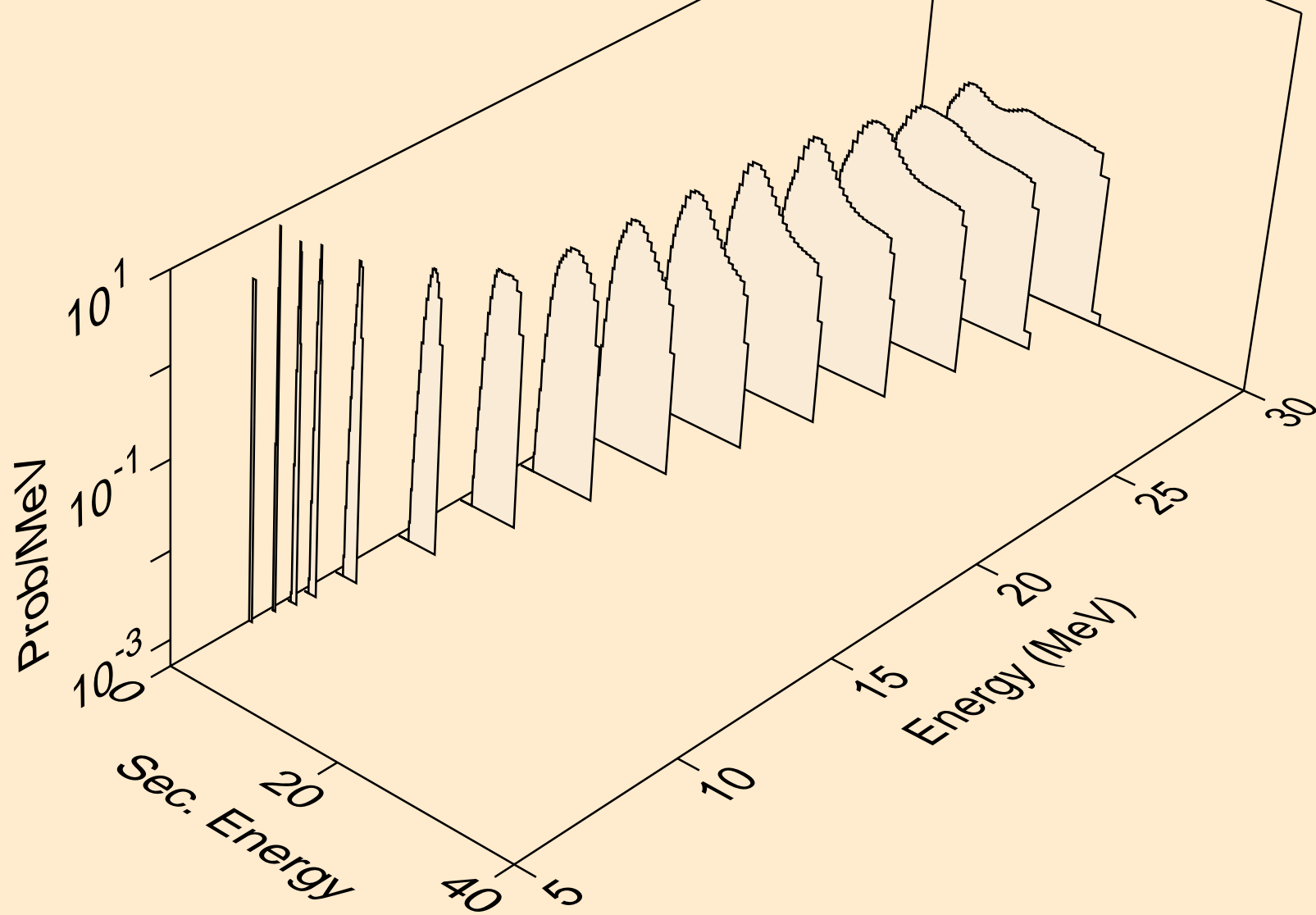
## Particle production cross sections



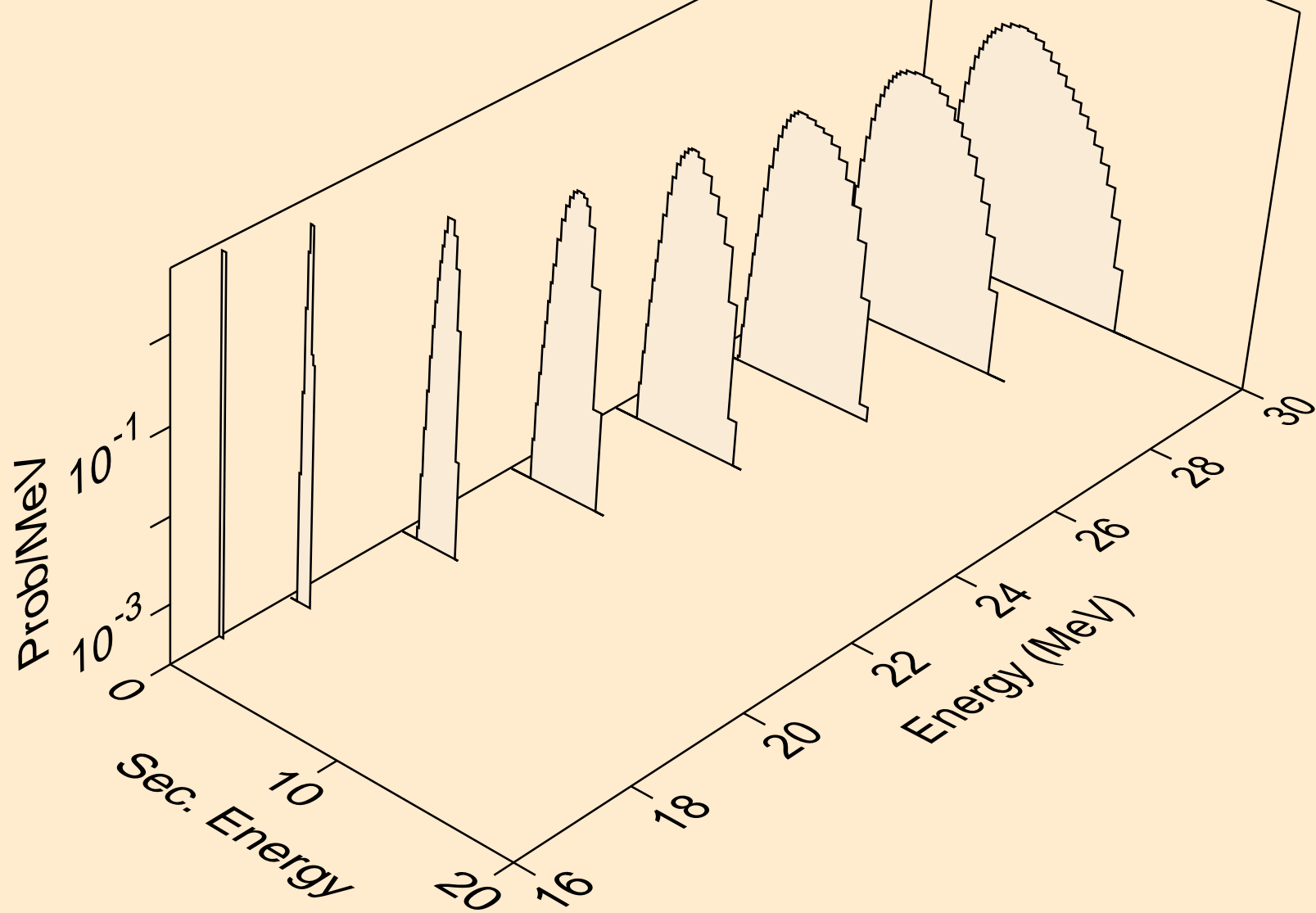
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protons from (n,x)



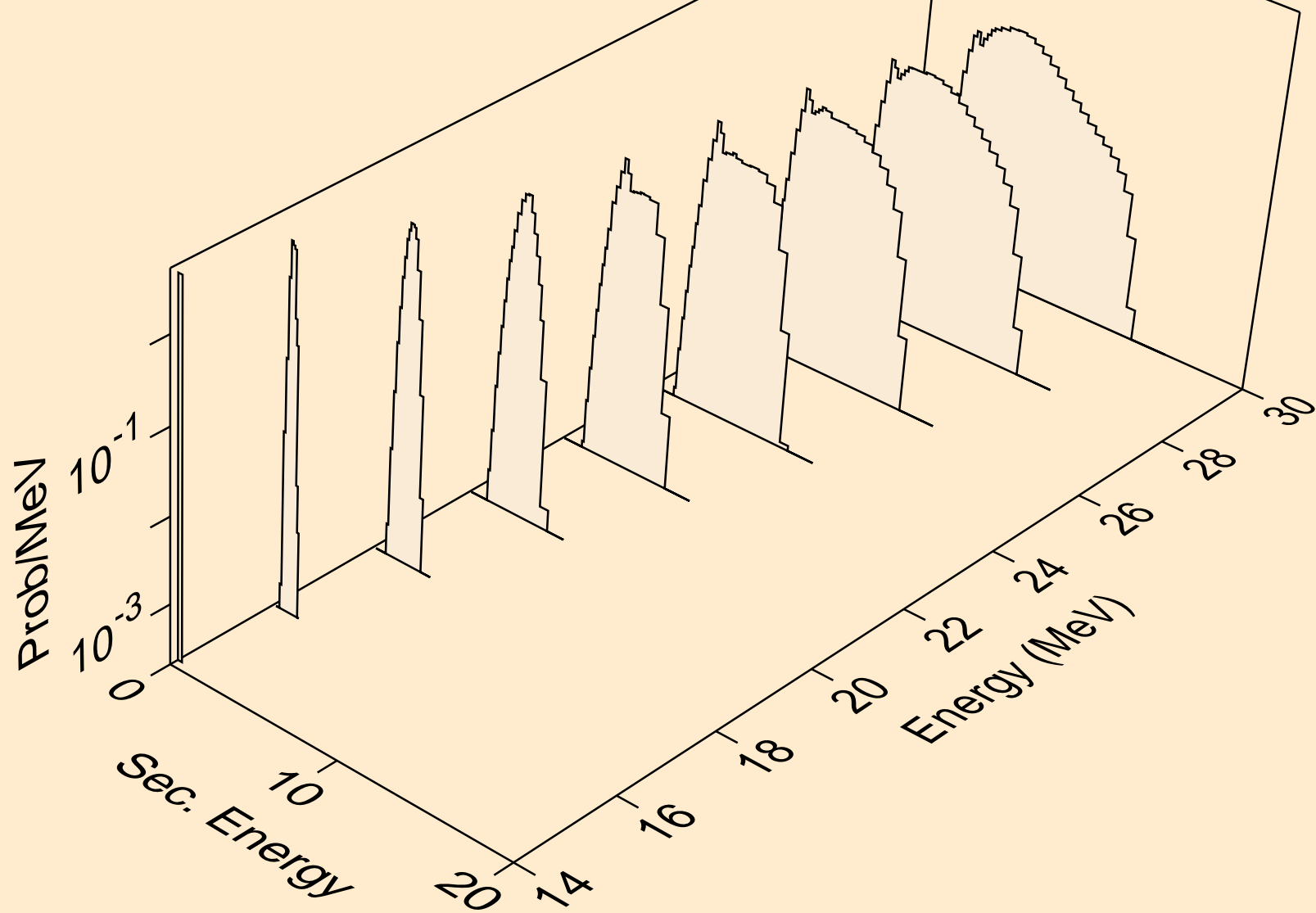
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protons from (n,n\*)p



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
protons from (n,2np)

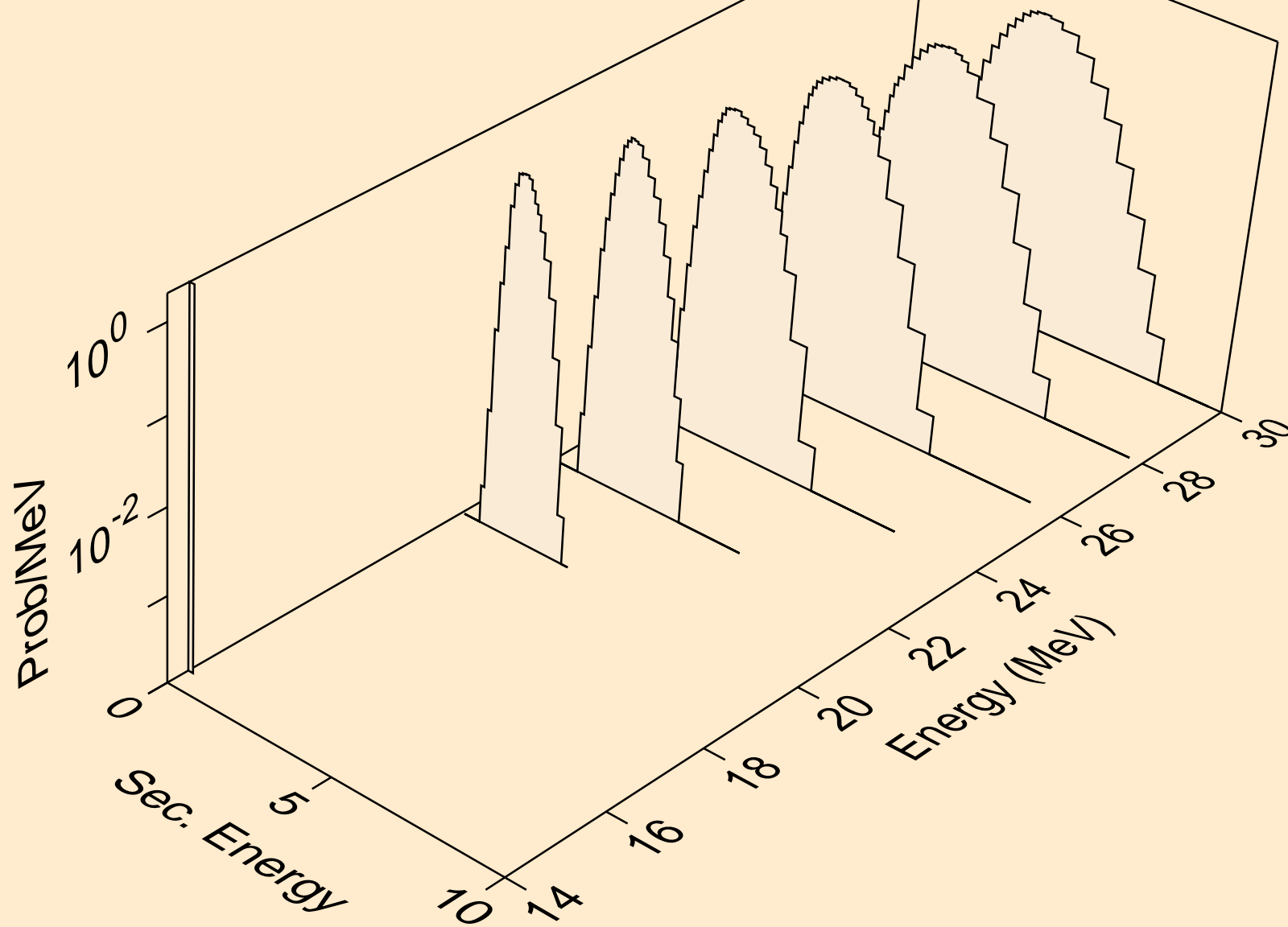


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protons from (n,n2p)

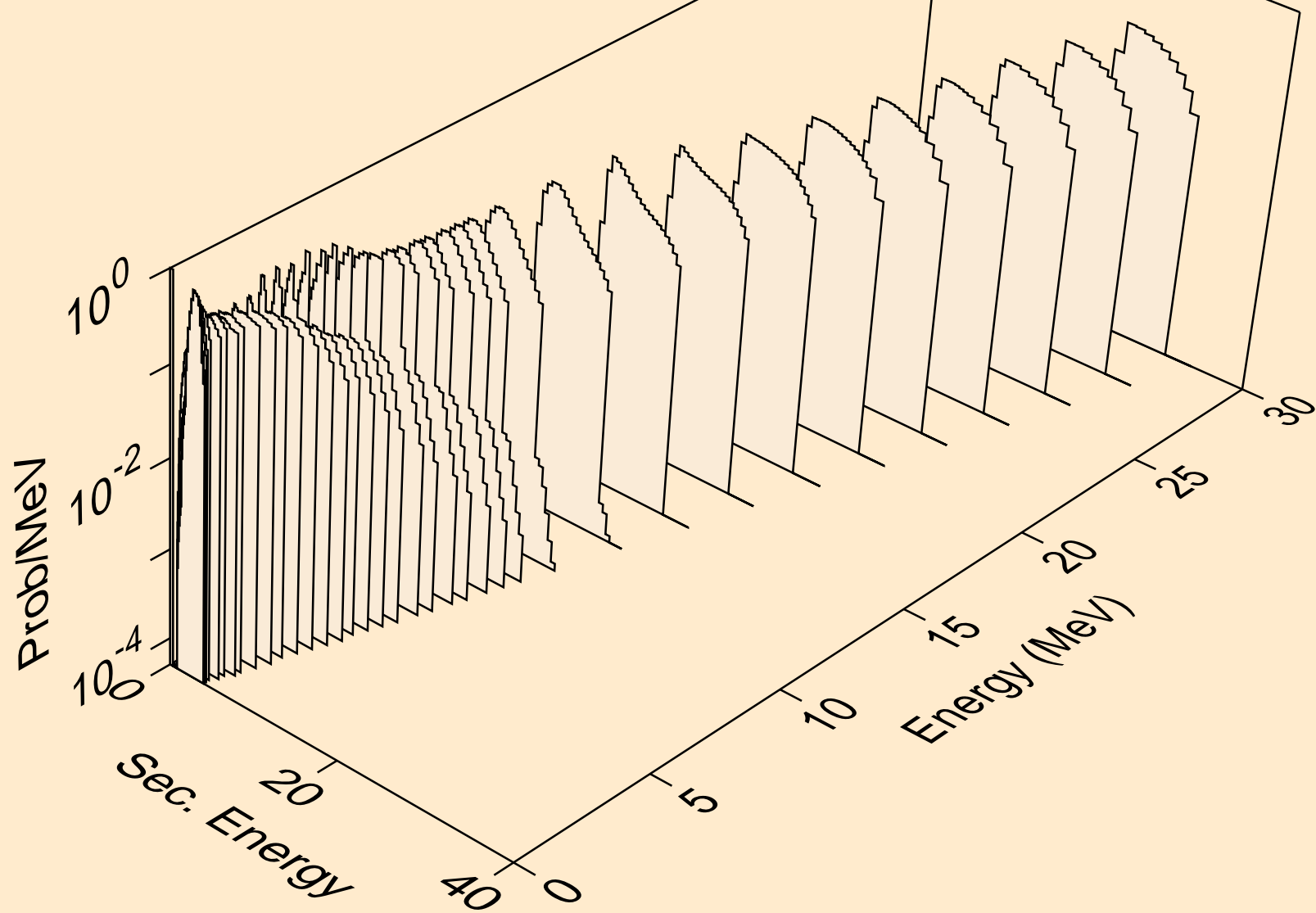




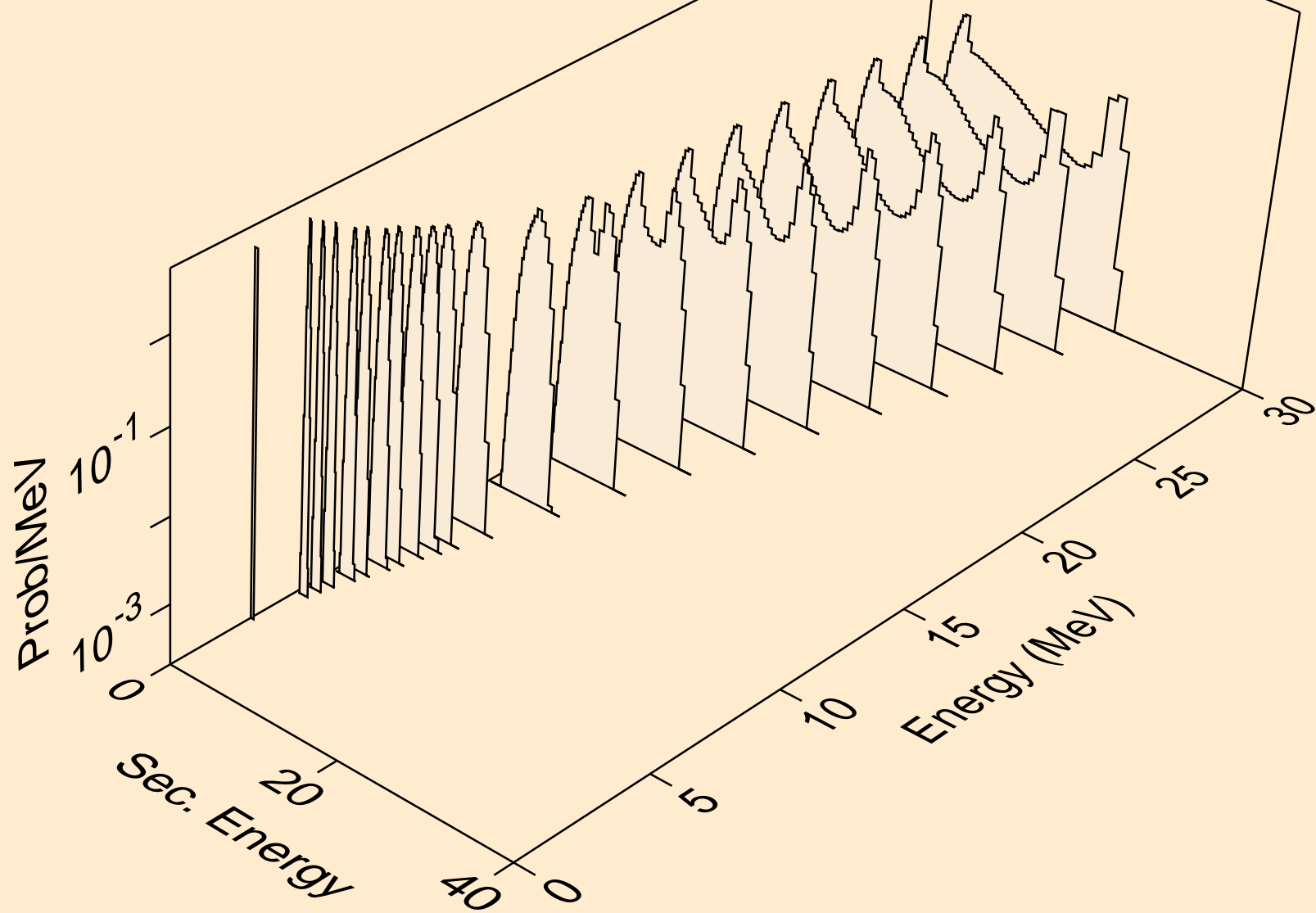
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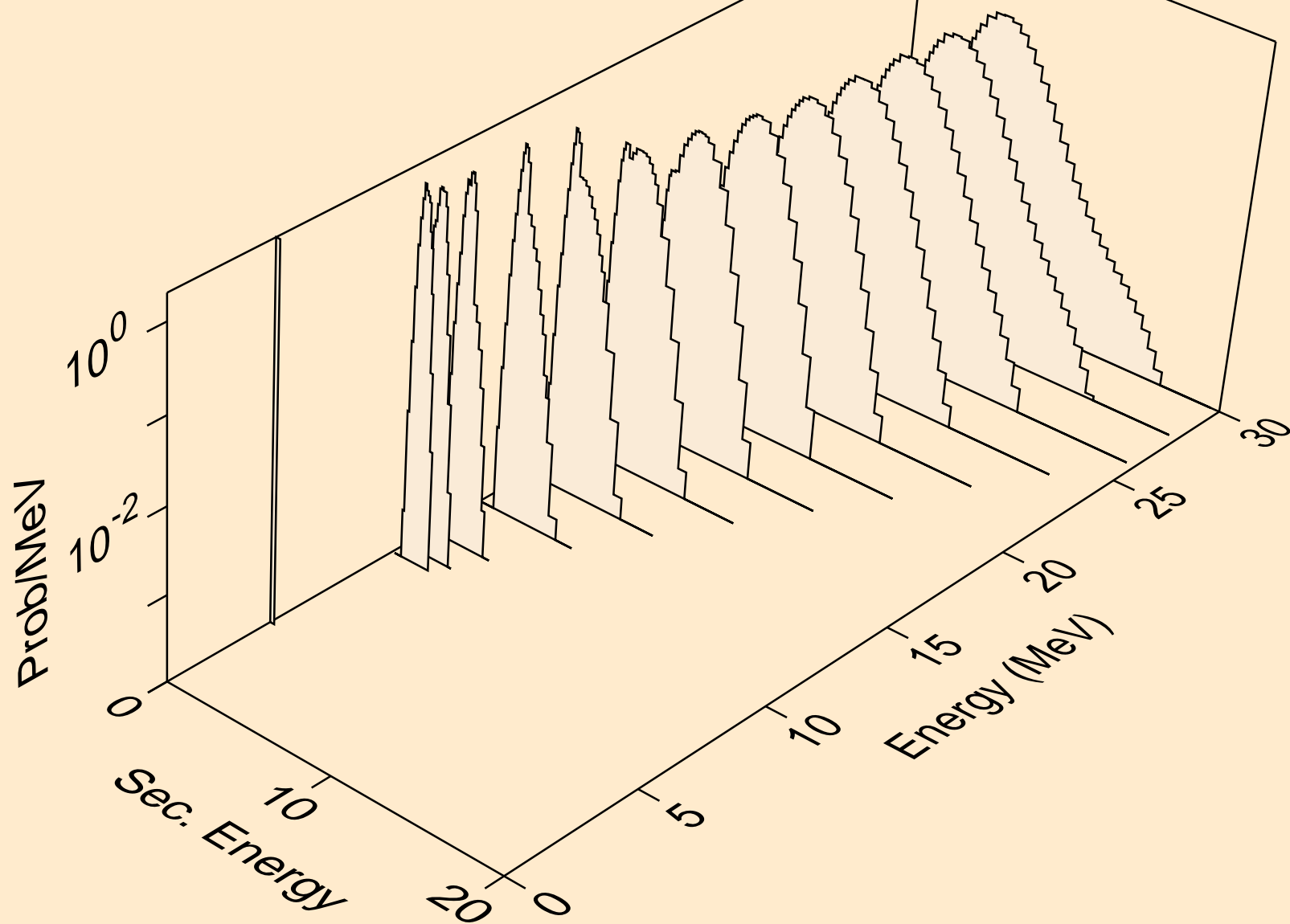
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protons from (n,p)



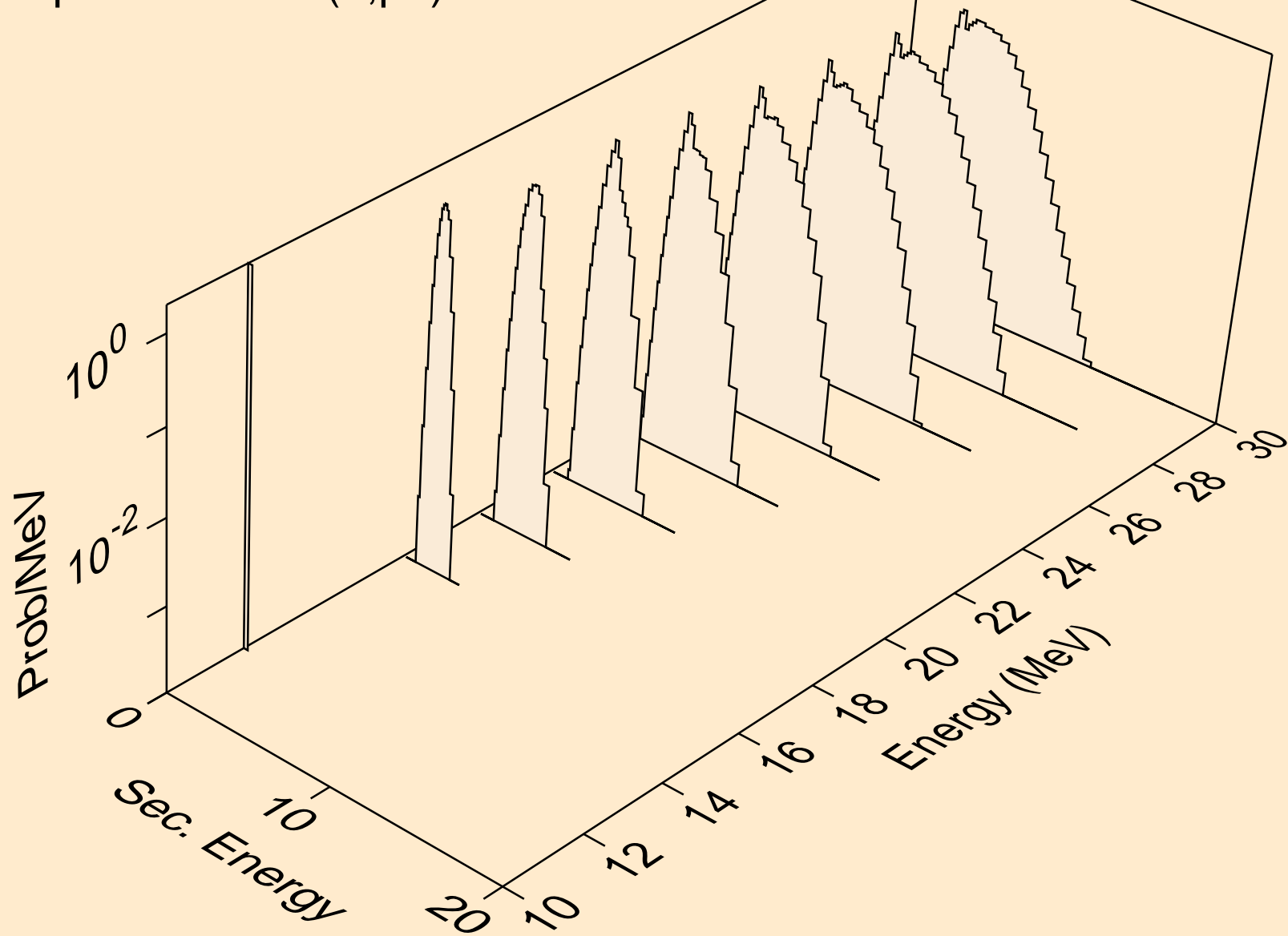
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protons from (n,2p)



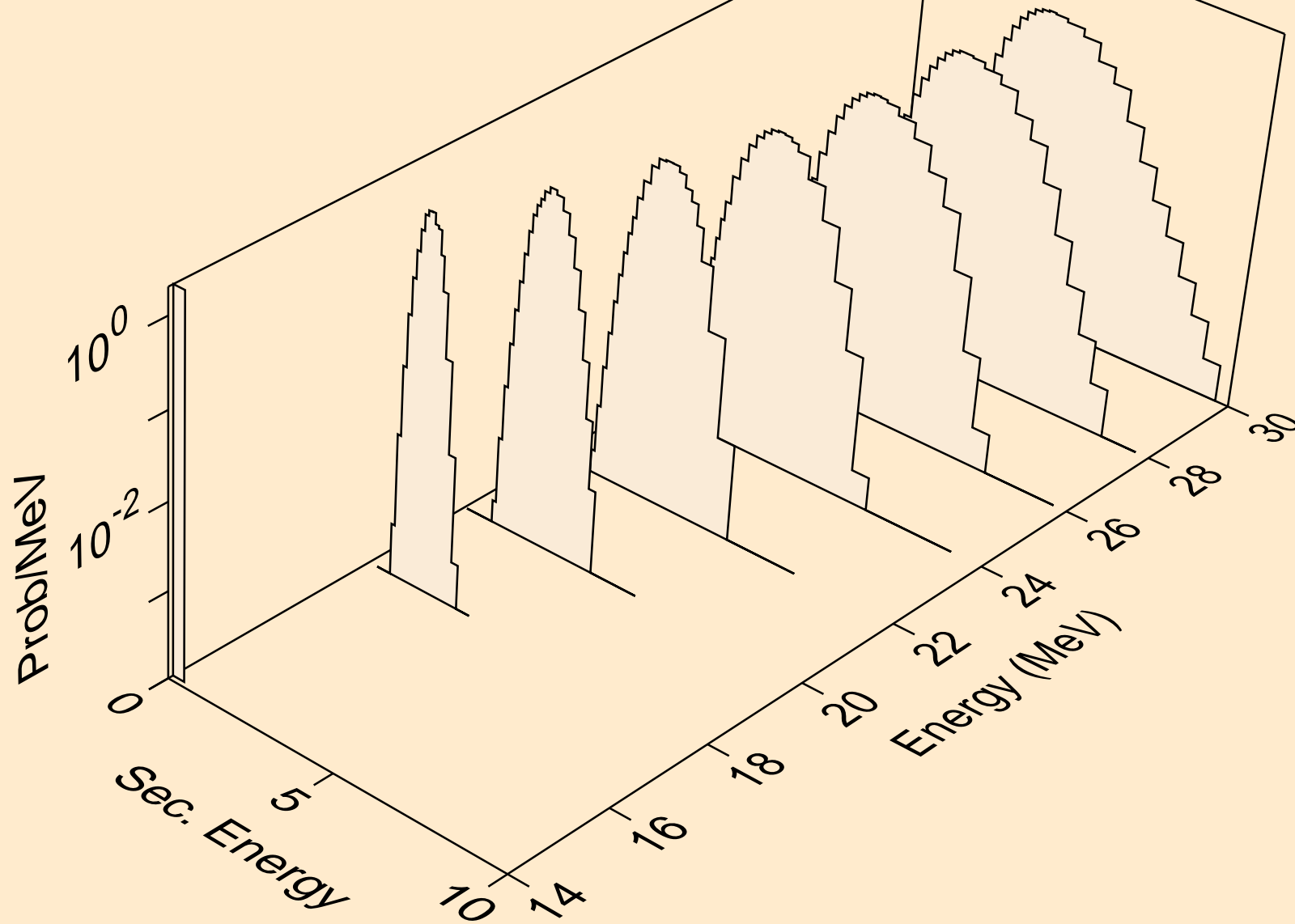
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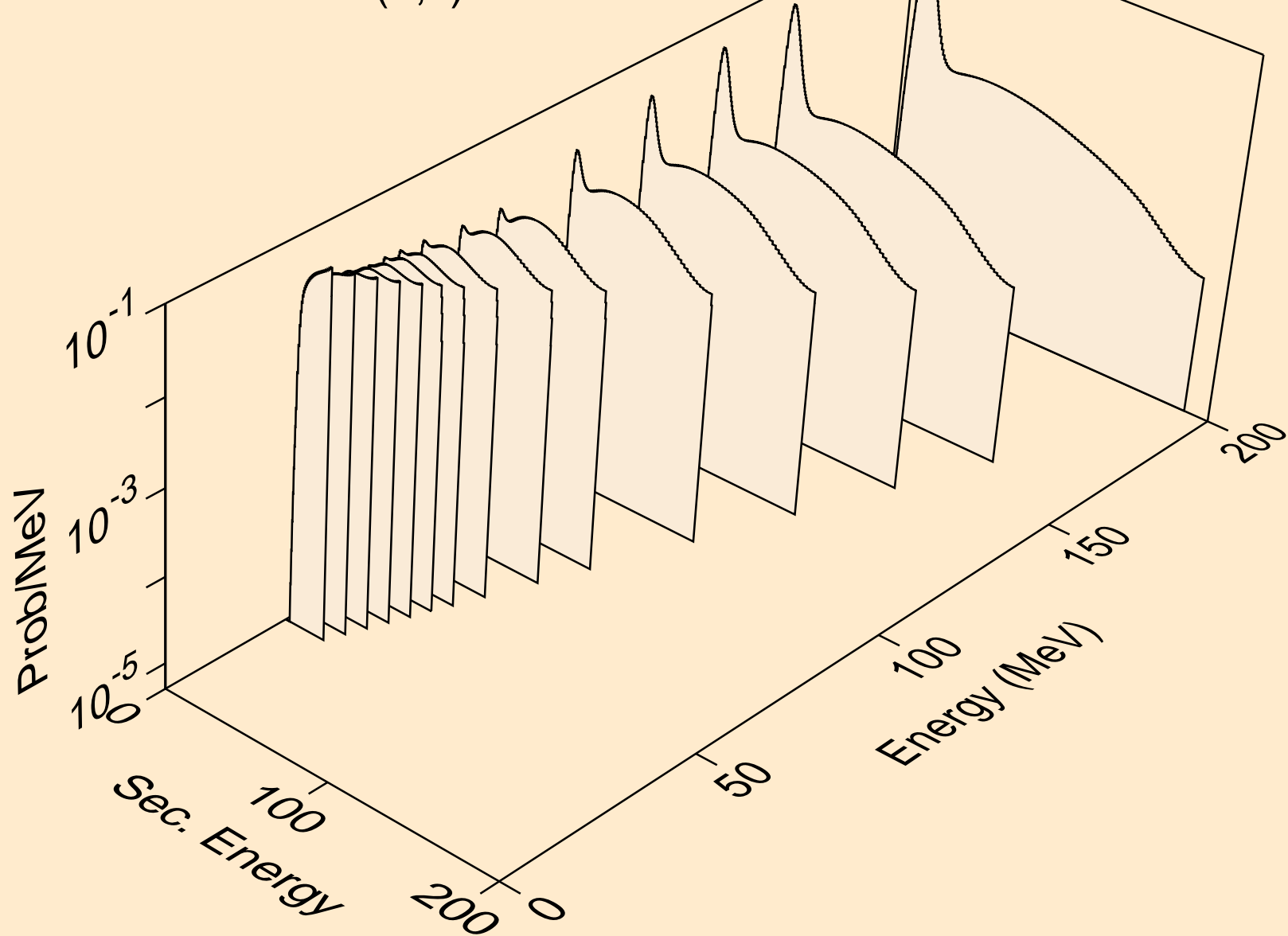
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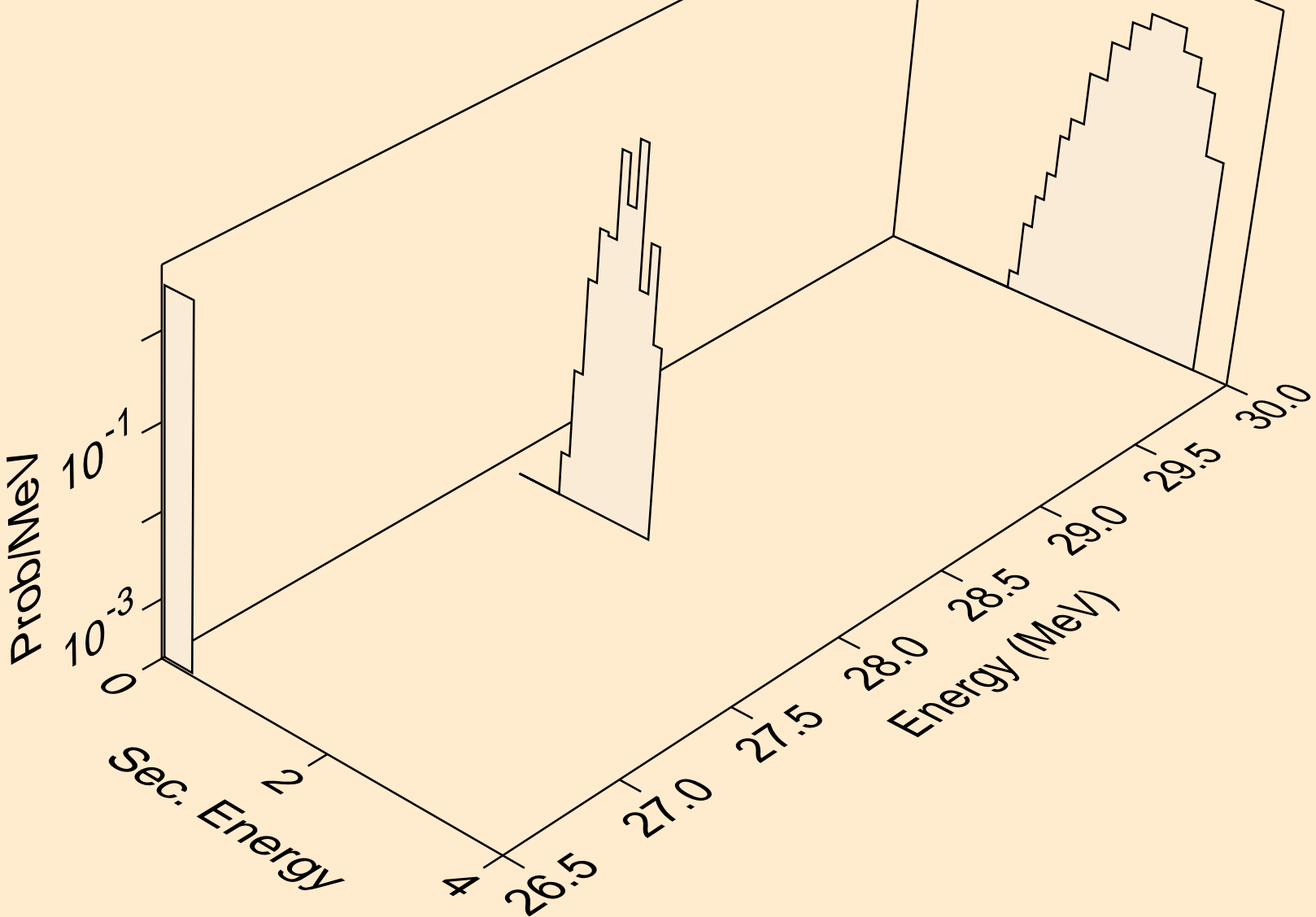
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protons from (n,pt)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (n,x)

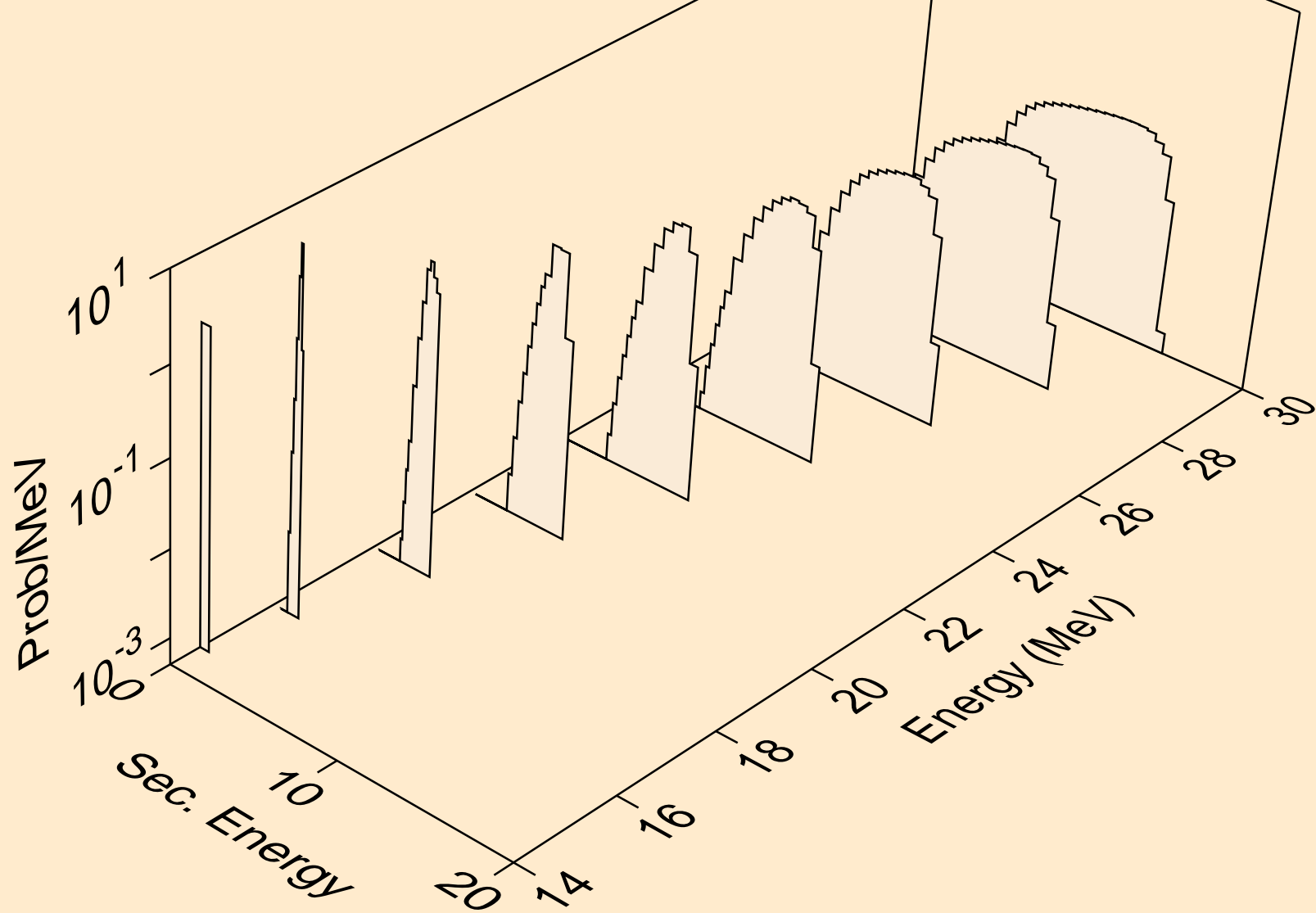


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deuterons from (n,2nd)

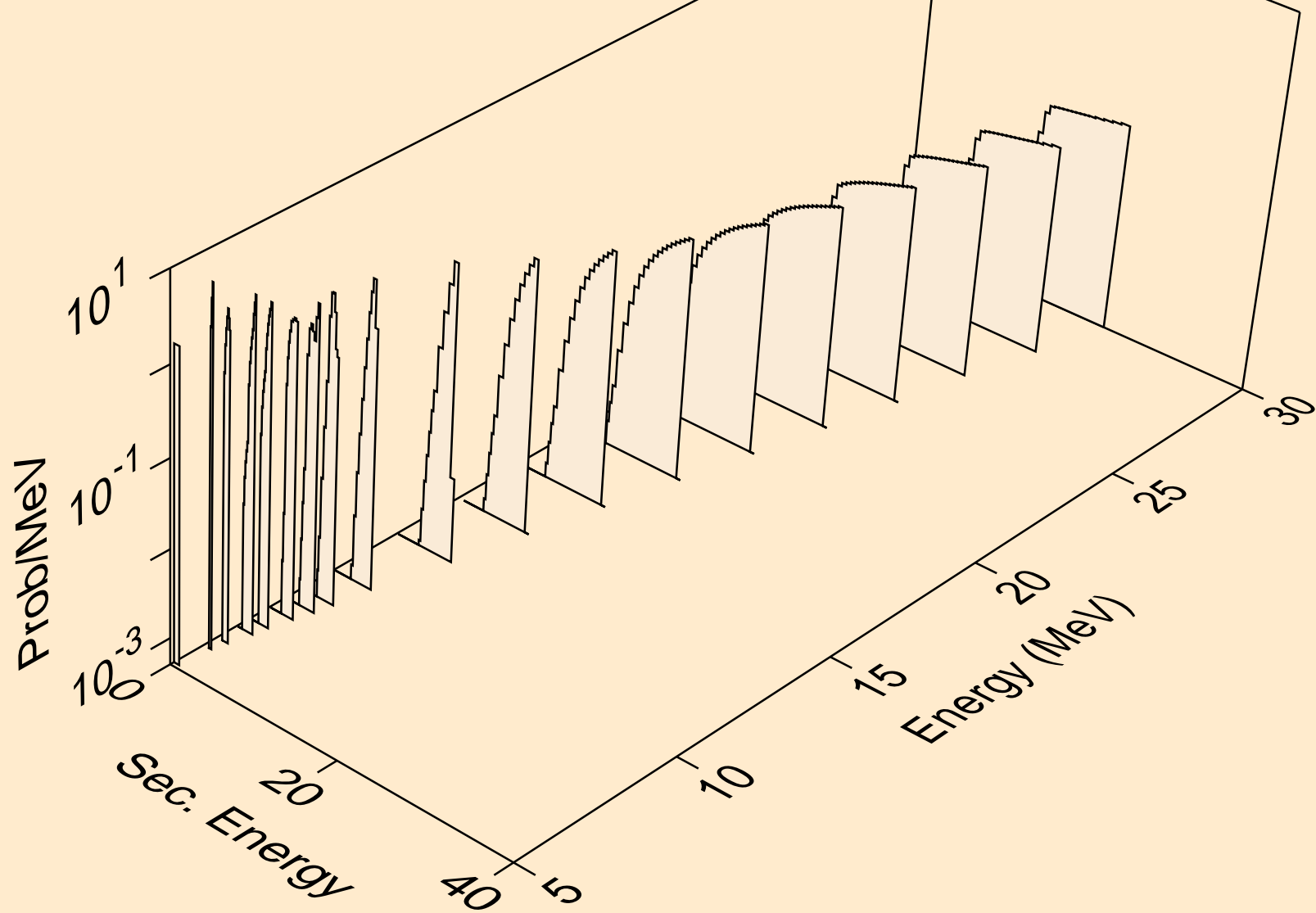




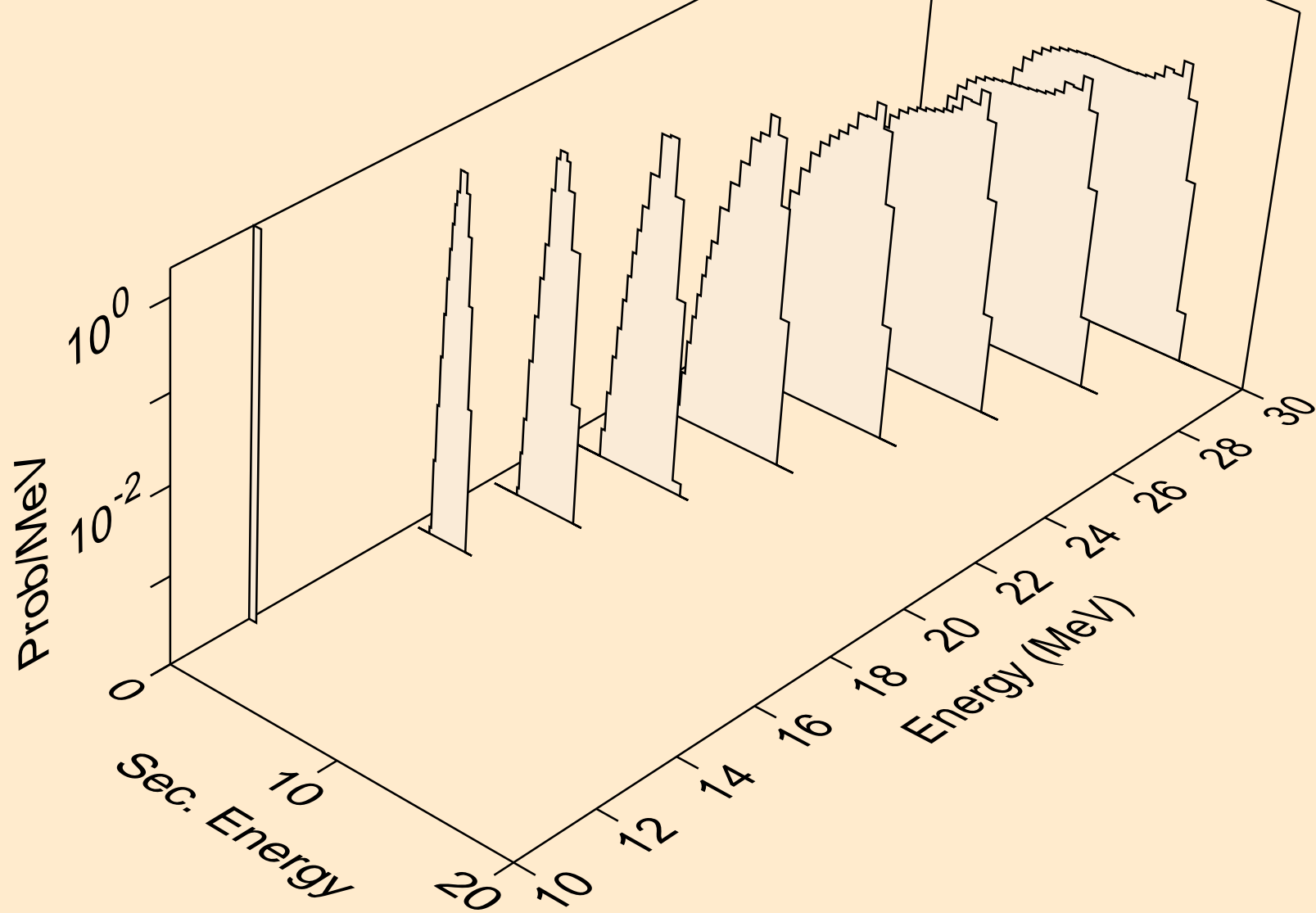
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deuterons from (n,n\*)d



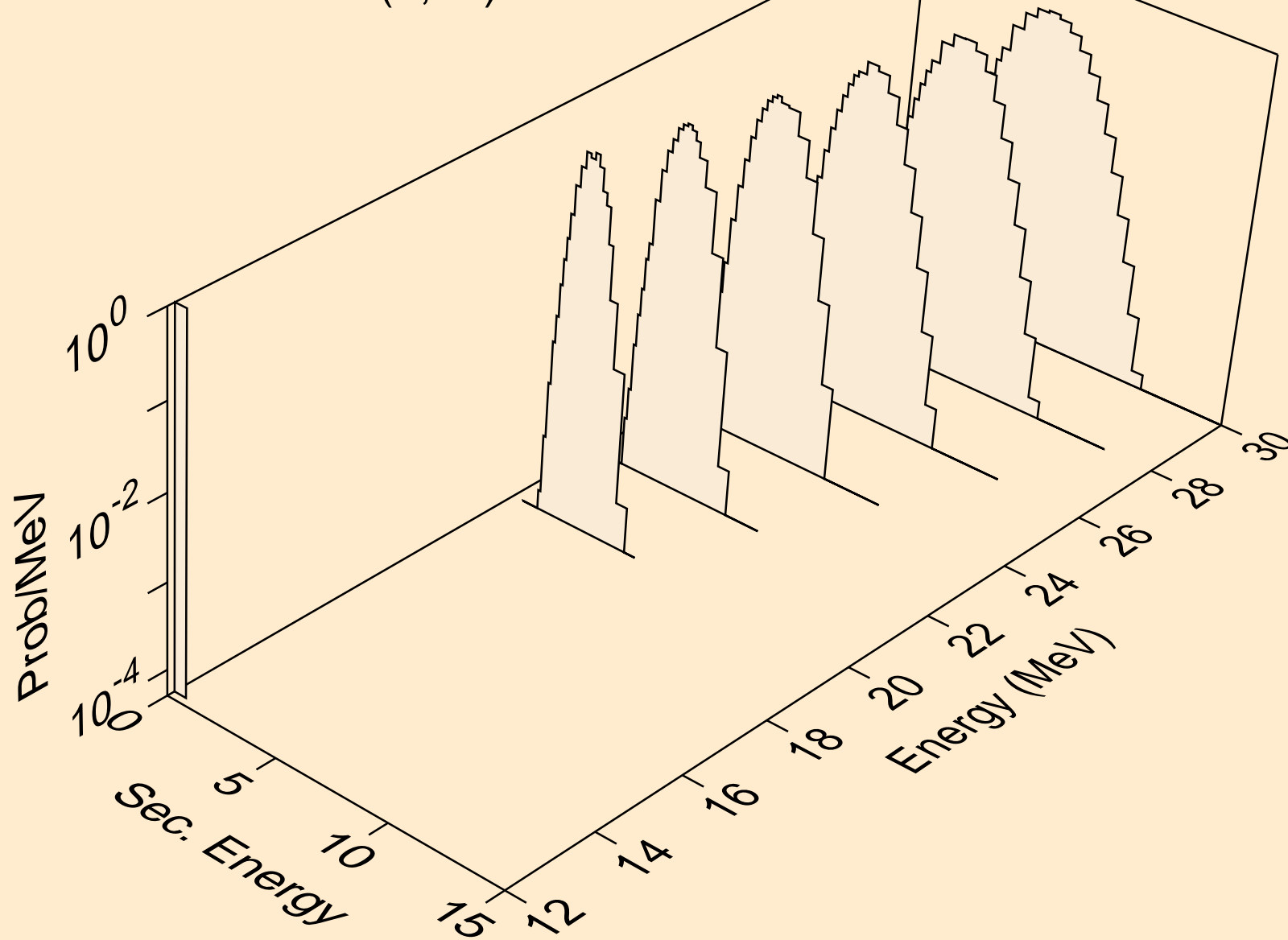
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deuterons from (n,d)



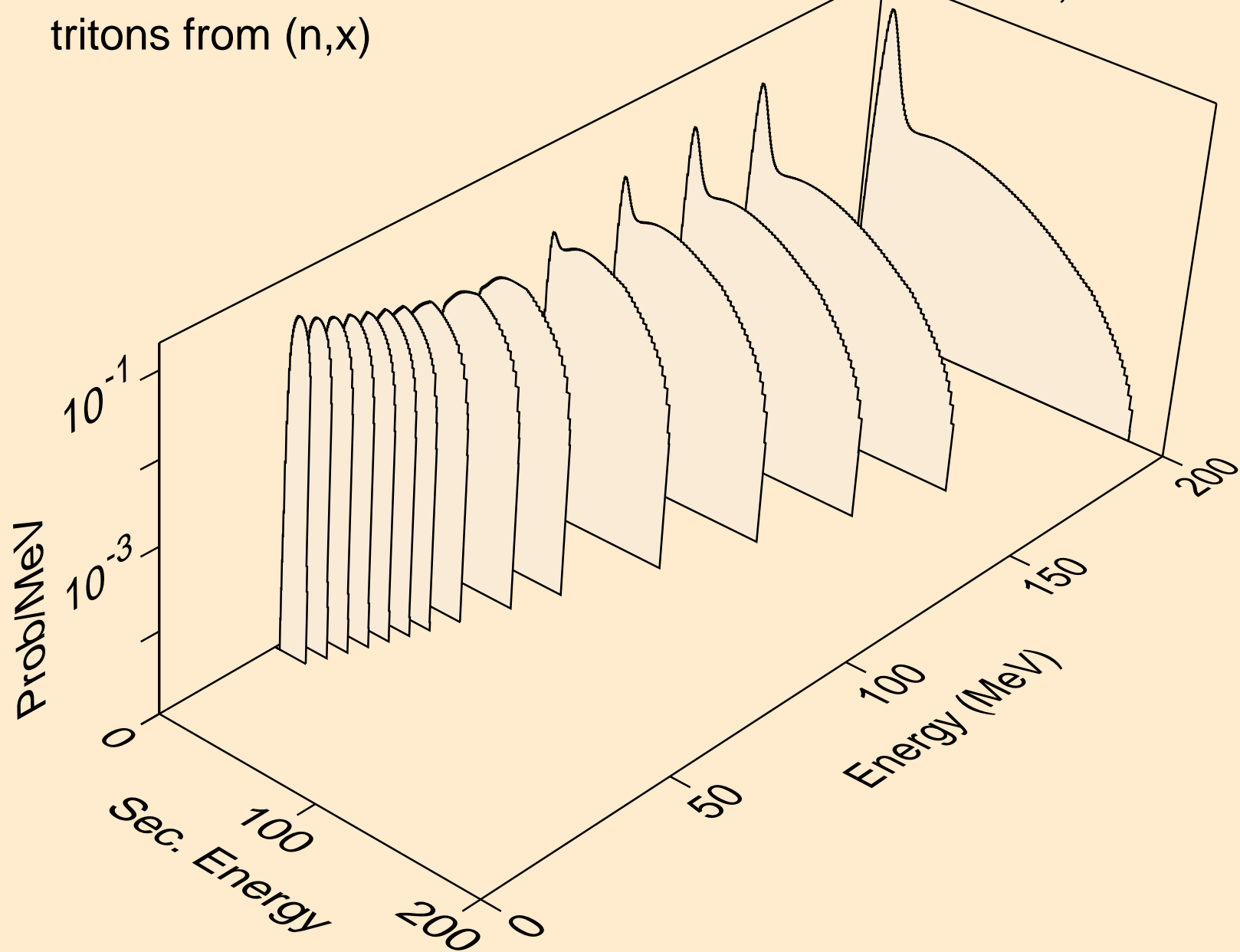
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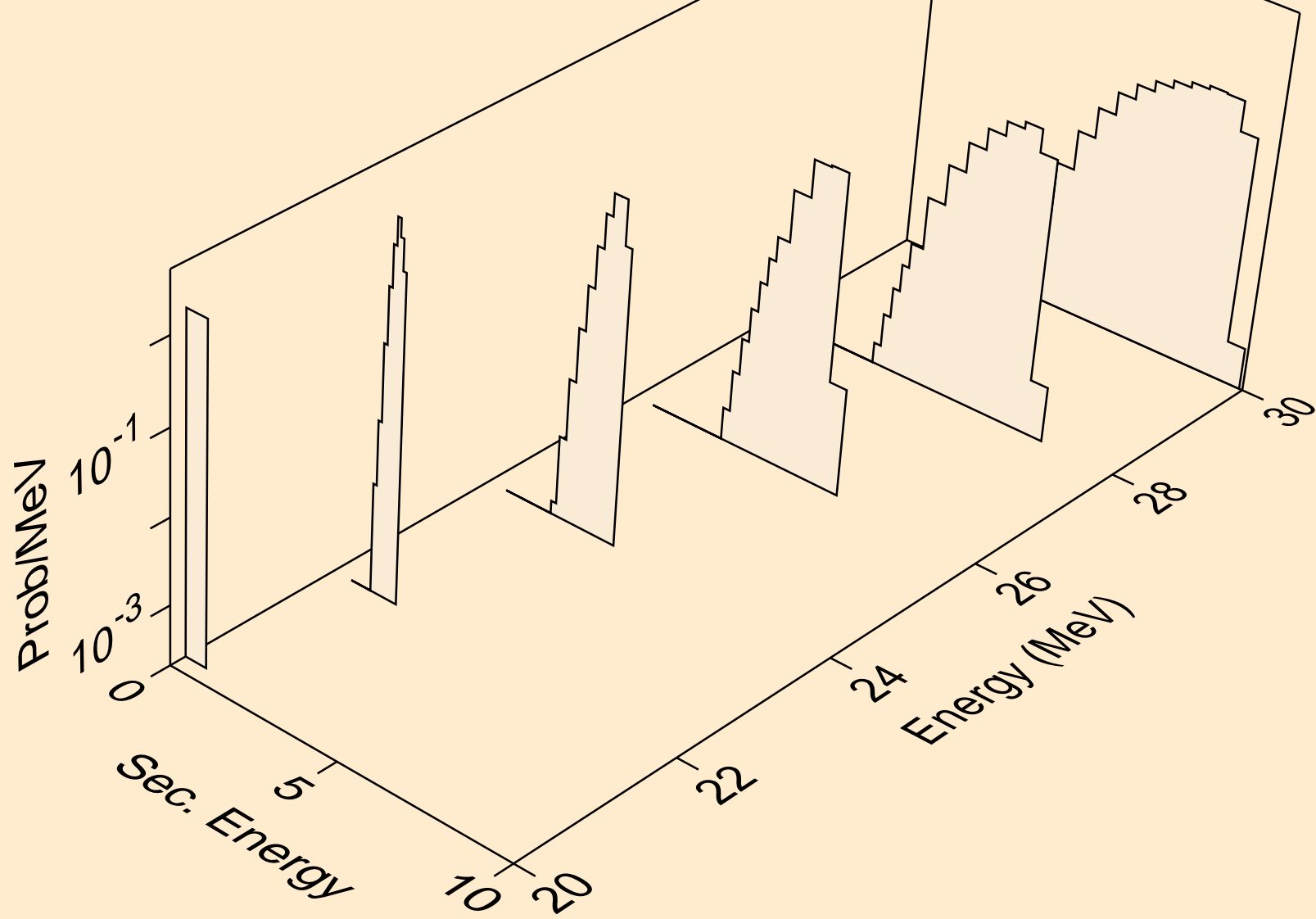
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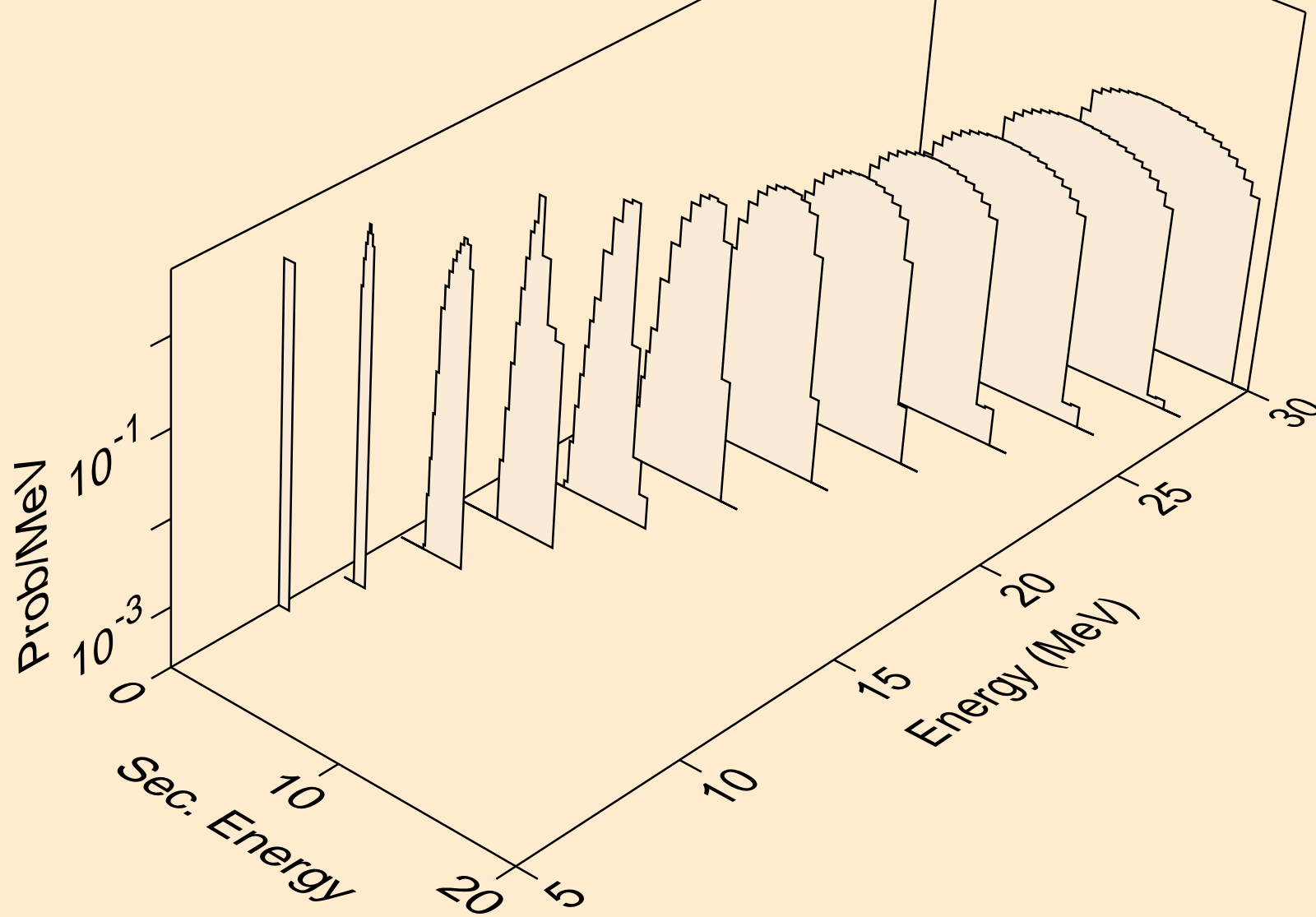
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tritons from (n,x)



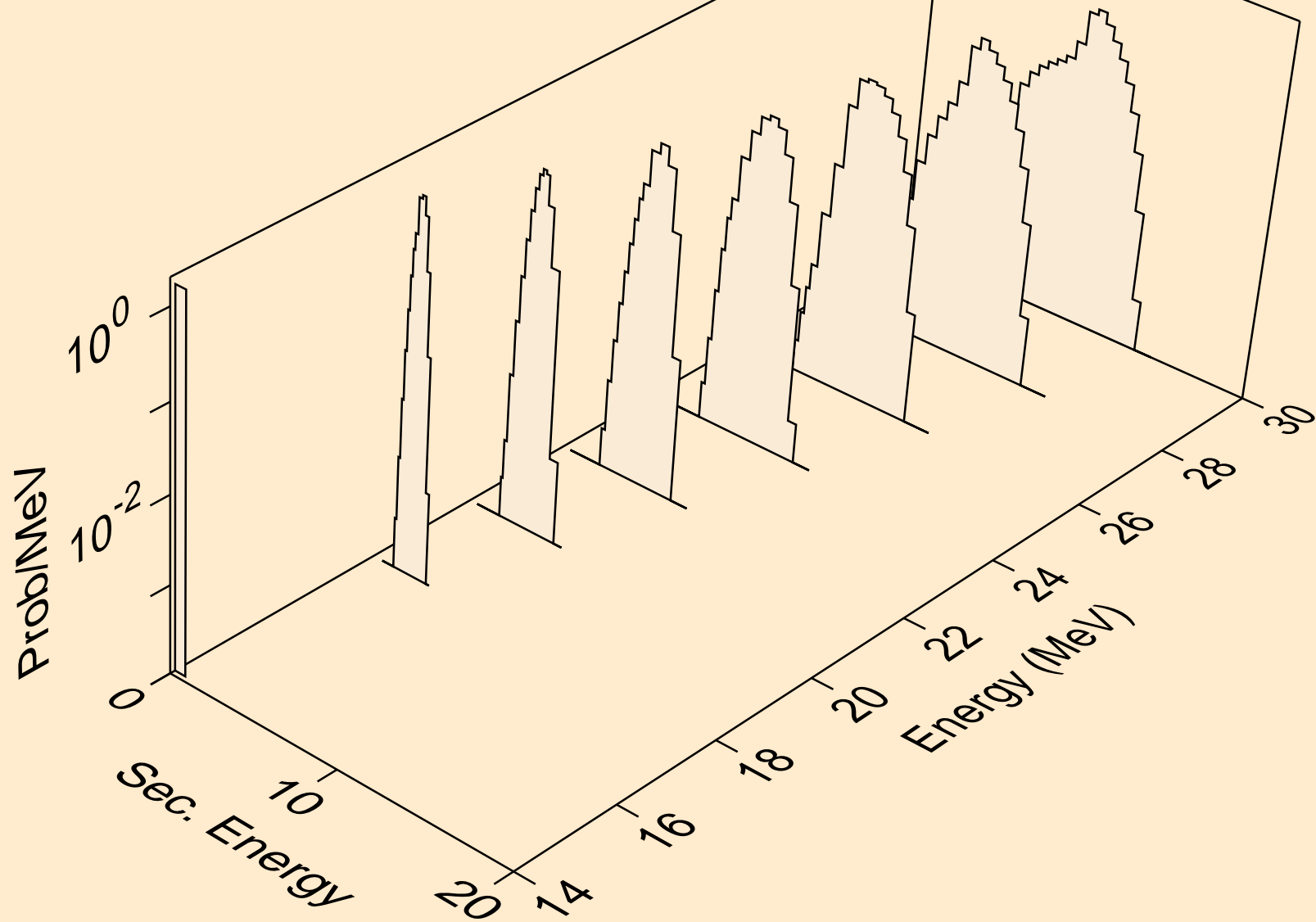
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
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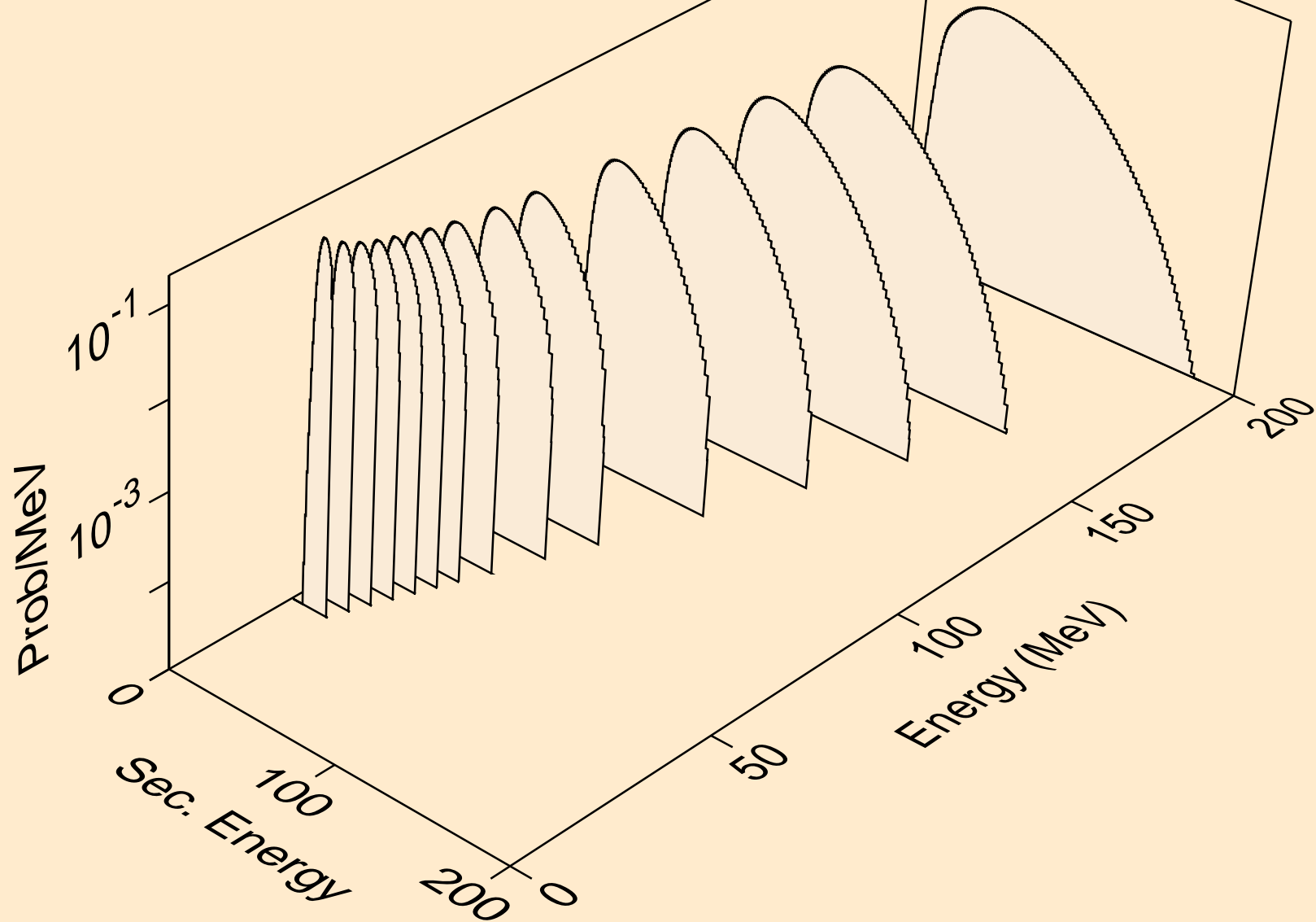


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tritons from (n,pt)

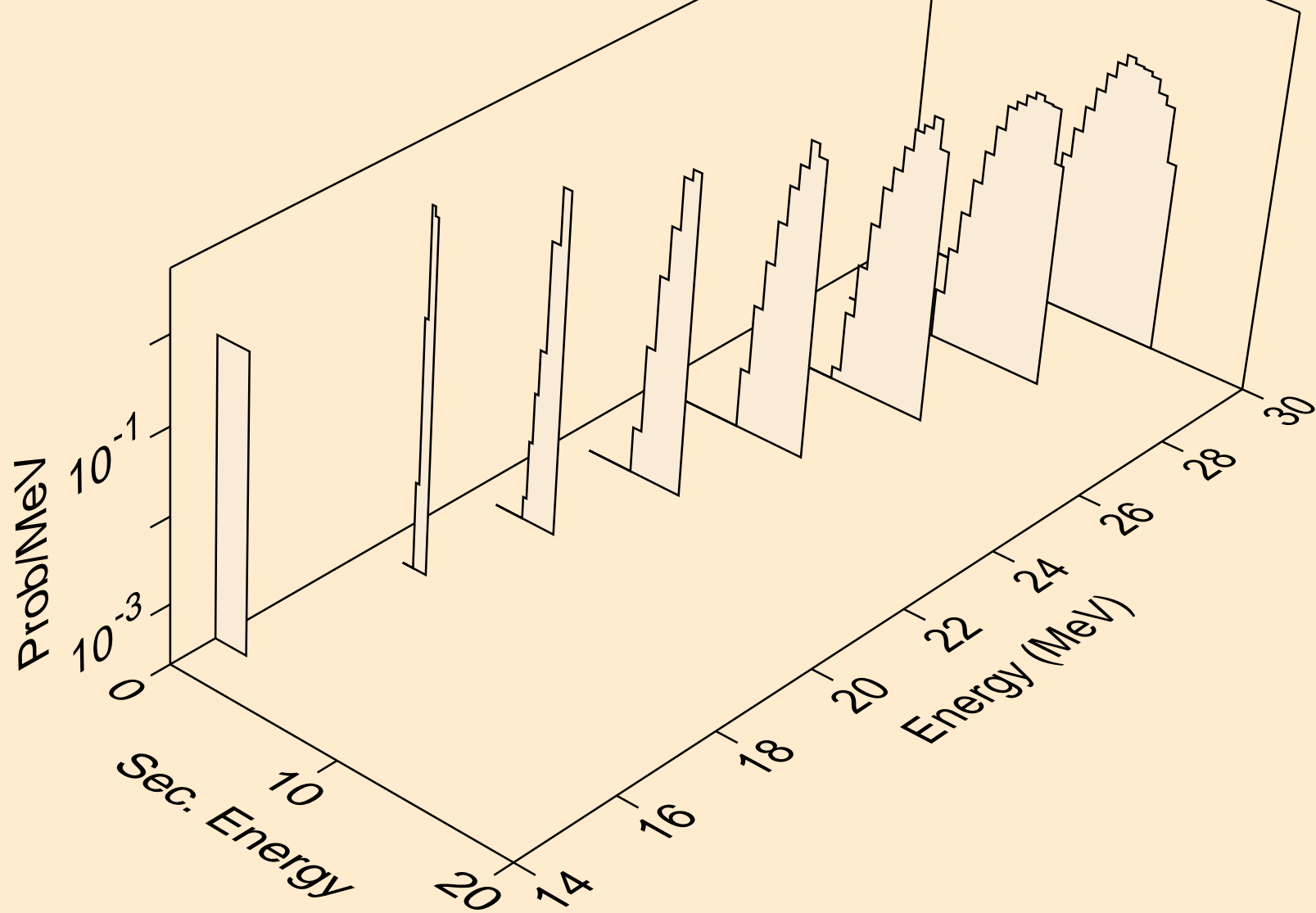




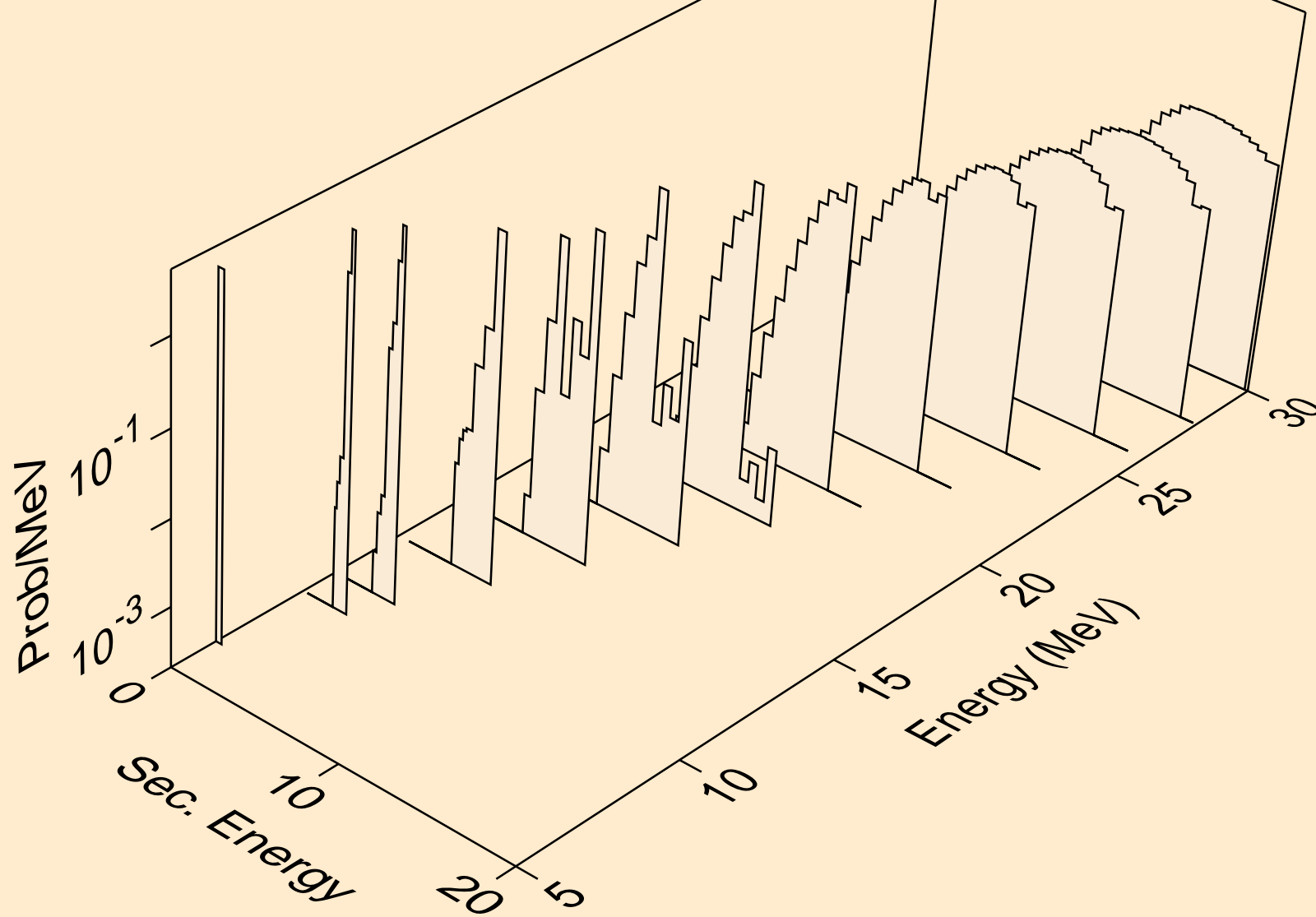
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he3s from (n,x)



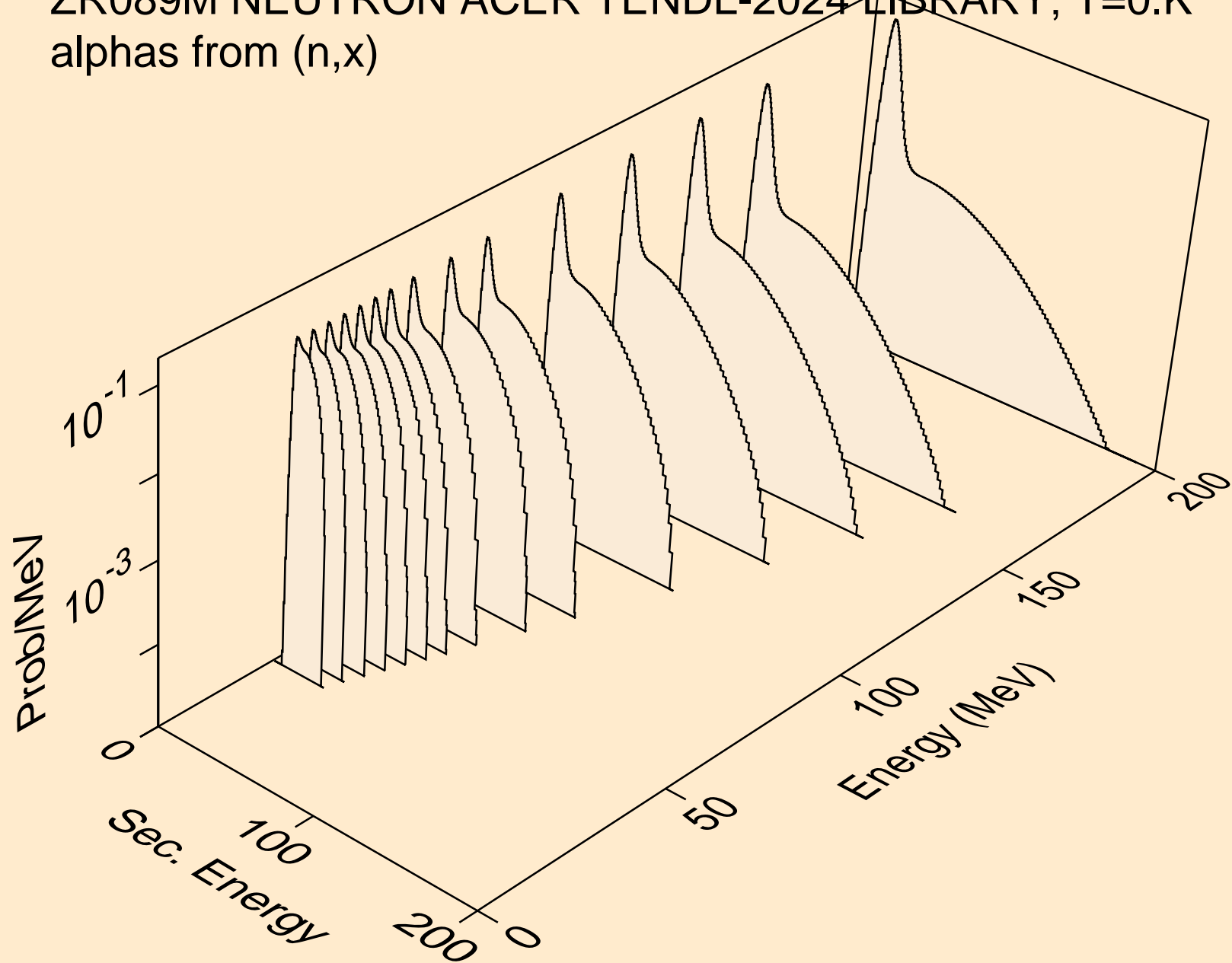
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he3s from (n,n\*)he3



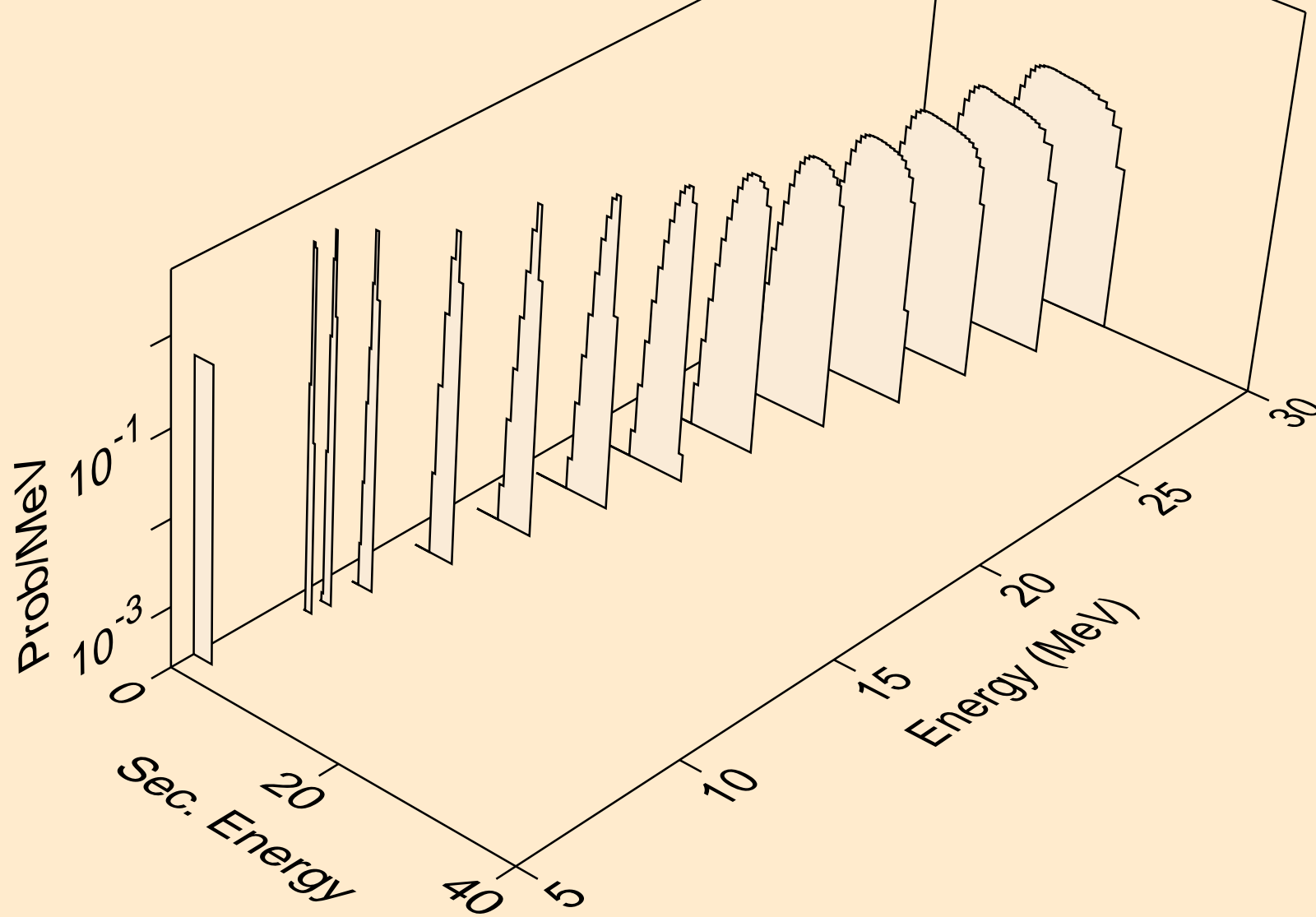
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he3s from (n,he3)



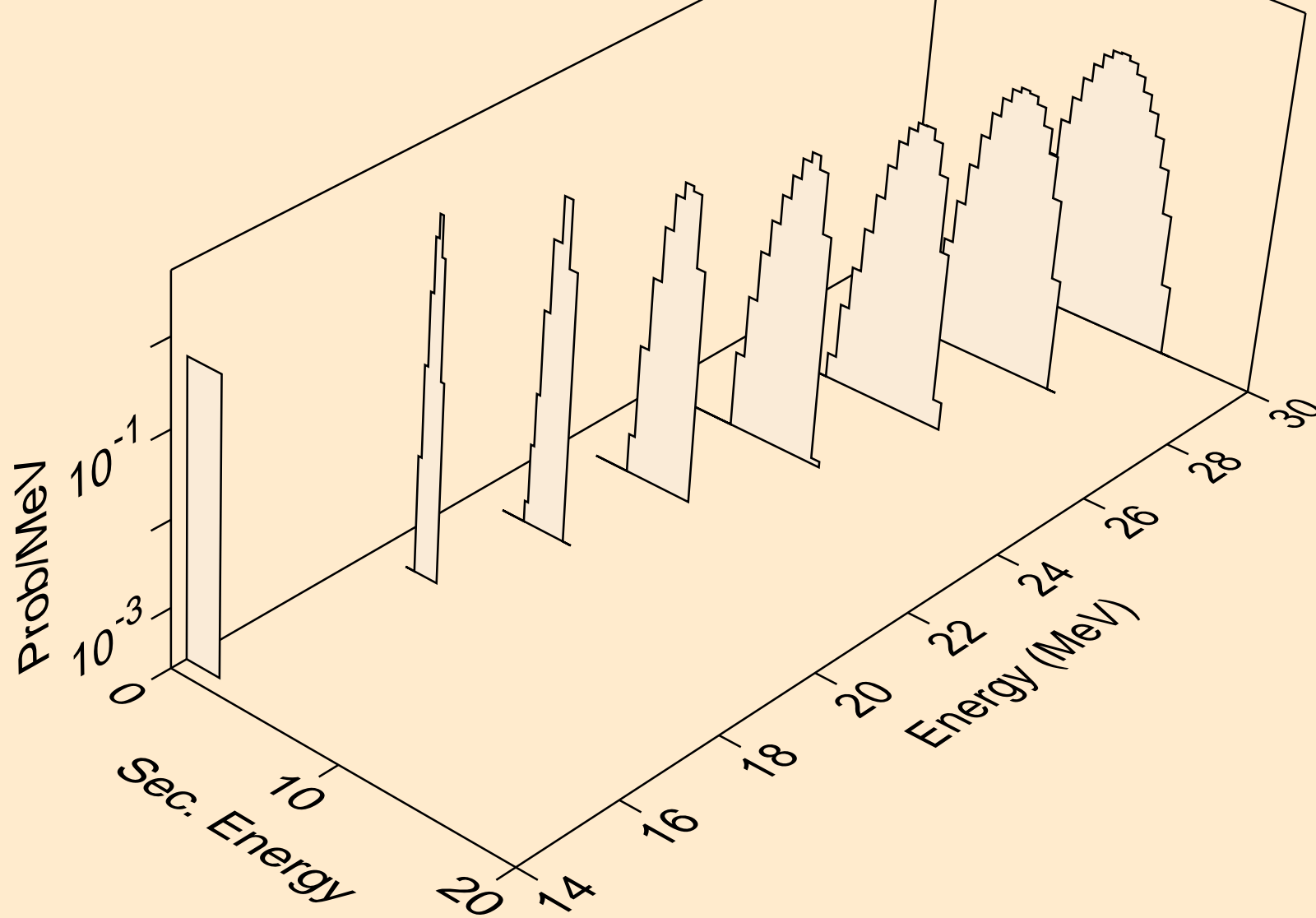
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alphas from (n,x)



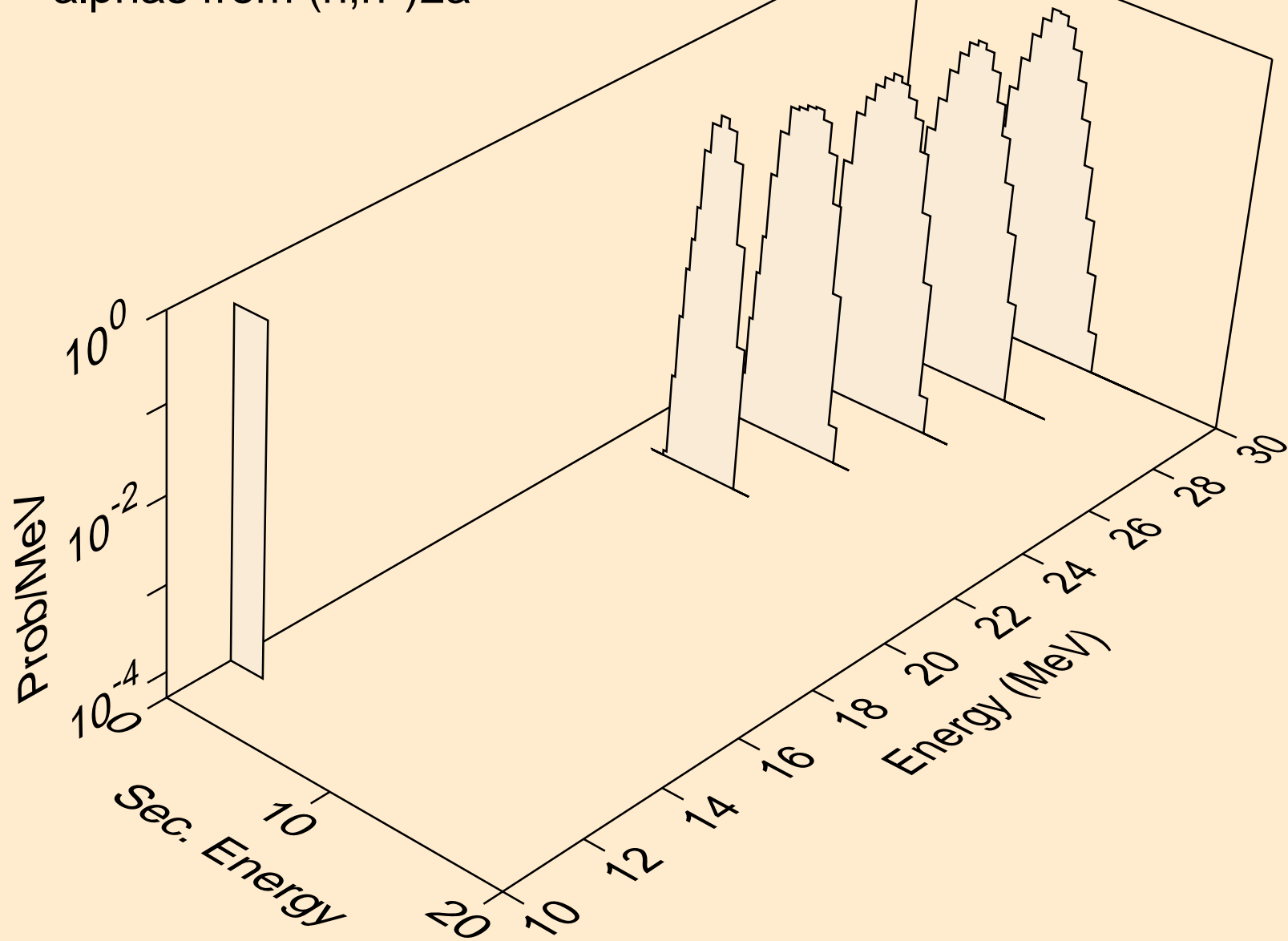
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alphas from (n,n\*)a



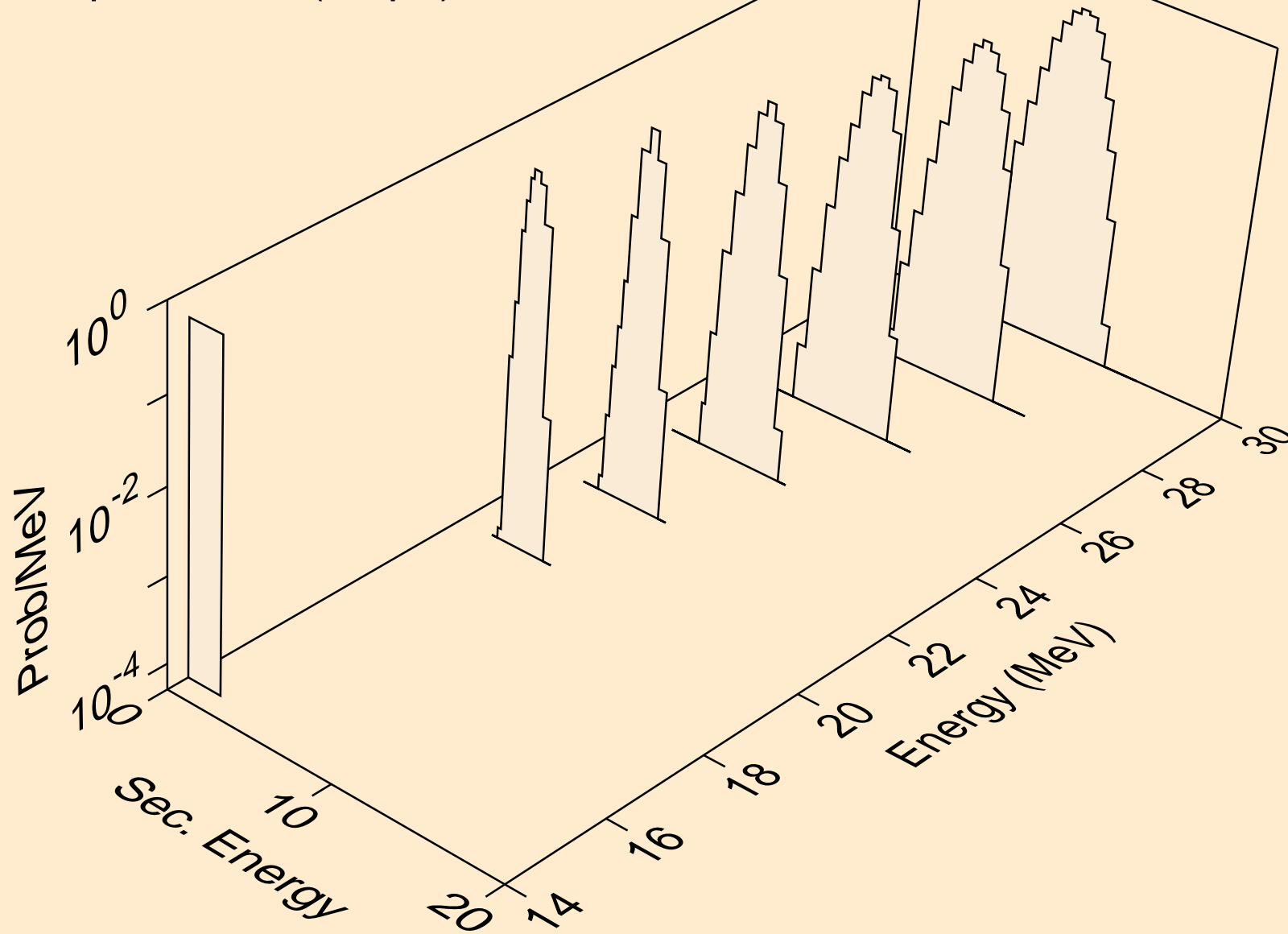
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2n)a



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,n\*)2a

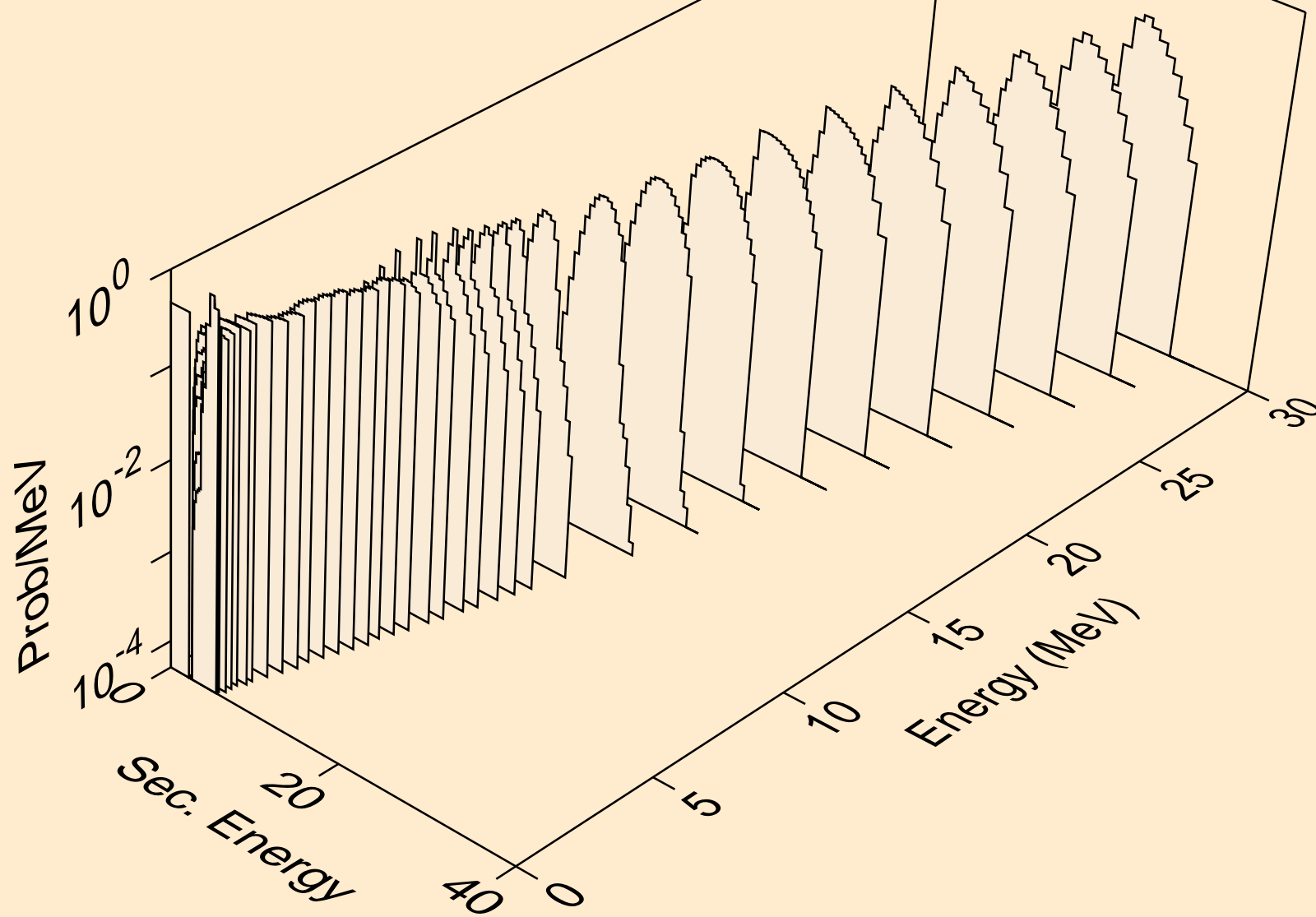


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alphas from (n,npa)

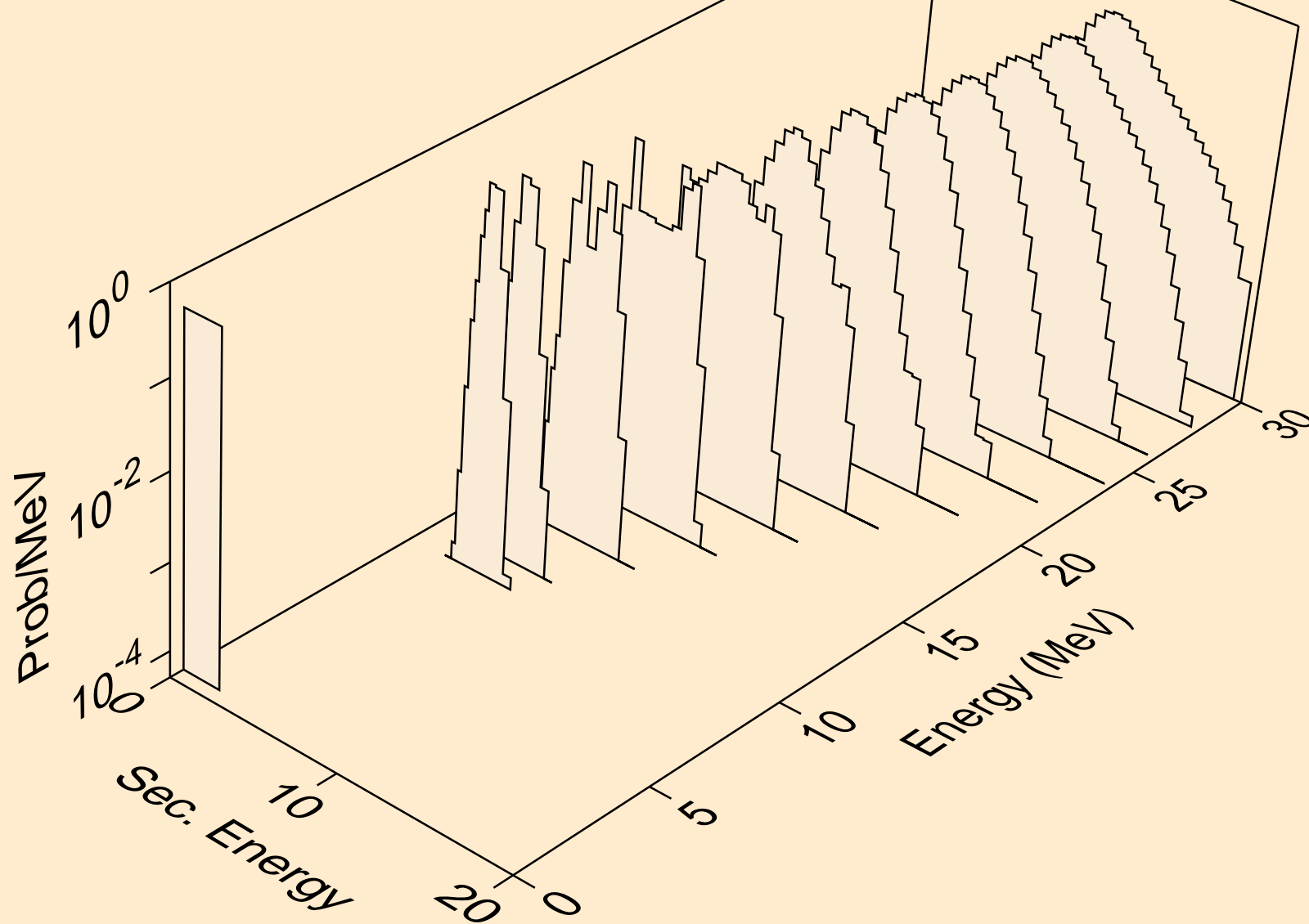




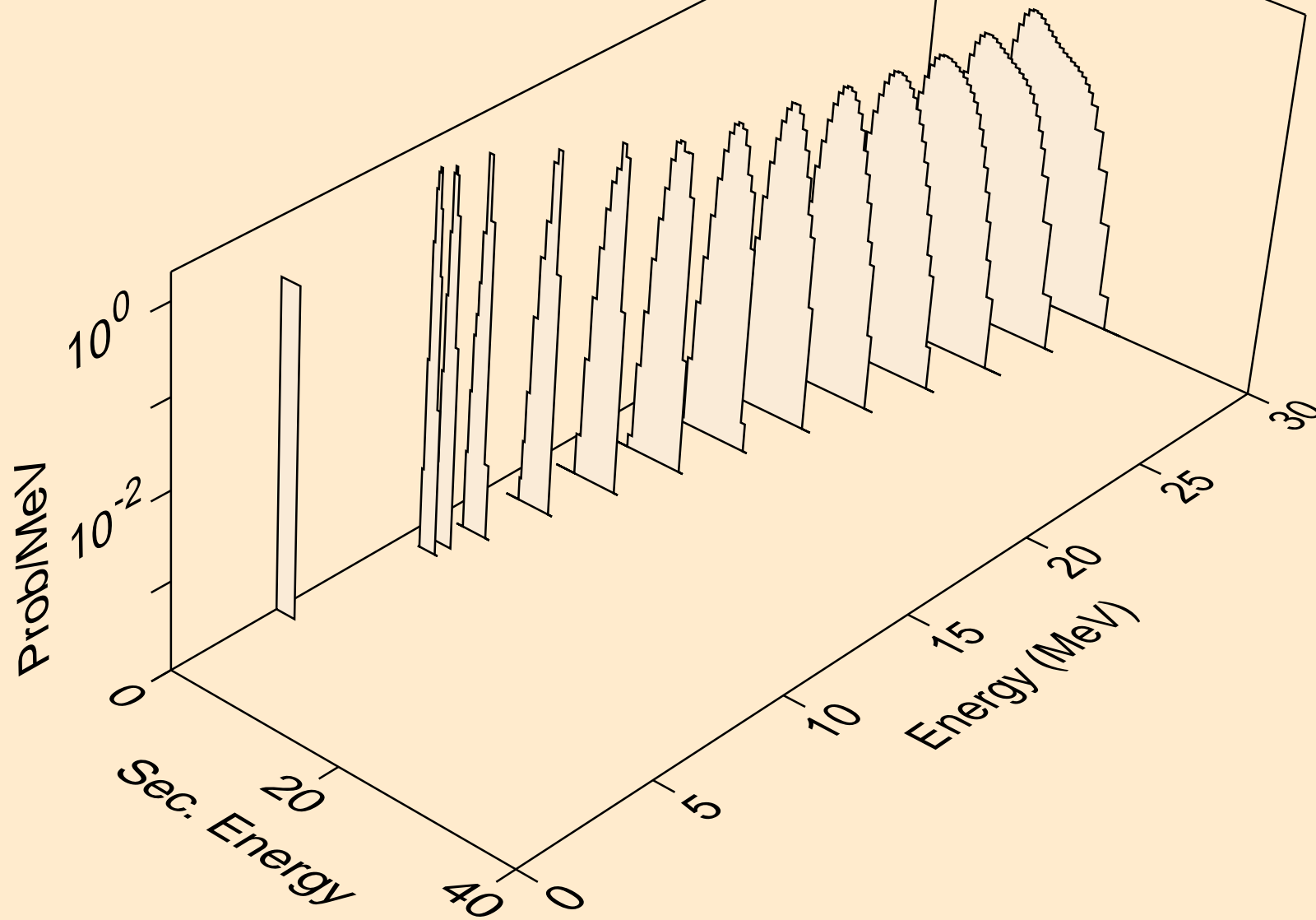
ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,a)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,2a)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,pa)



ZR089M NEUTRON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (n,da)

