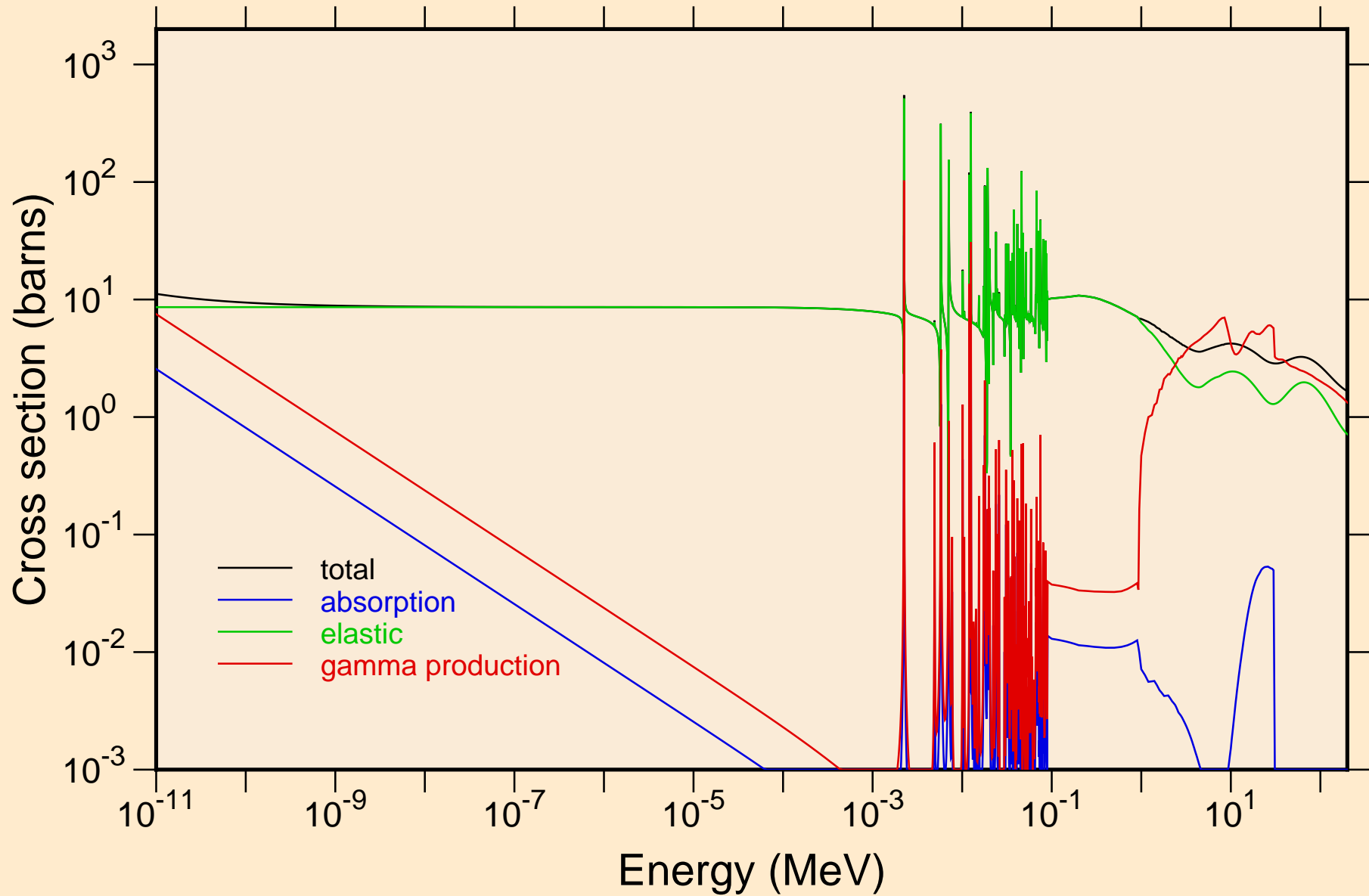
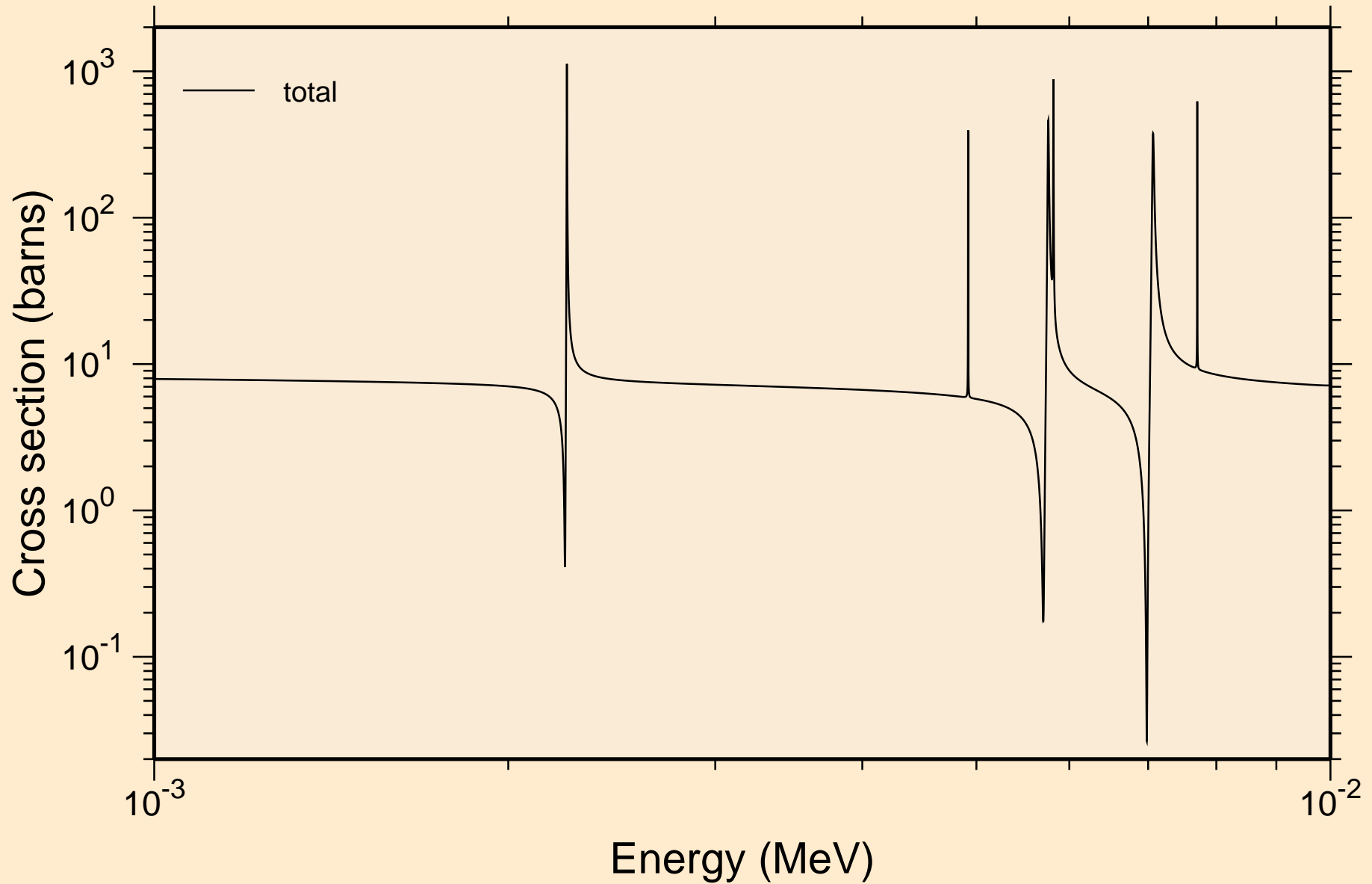


# ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

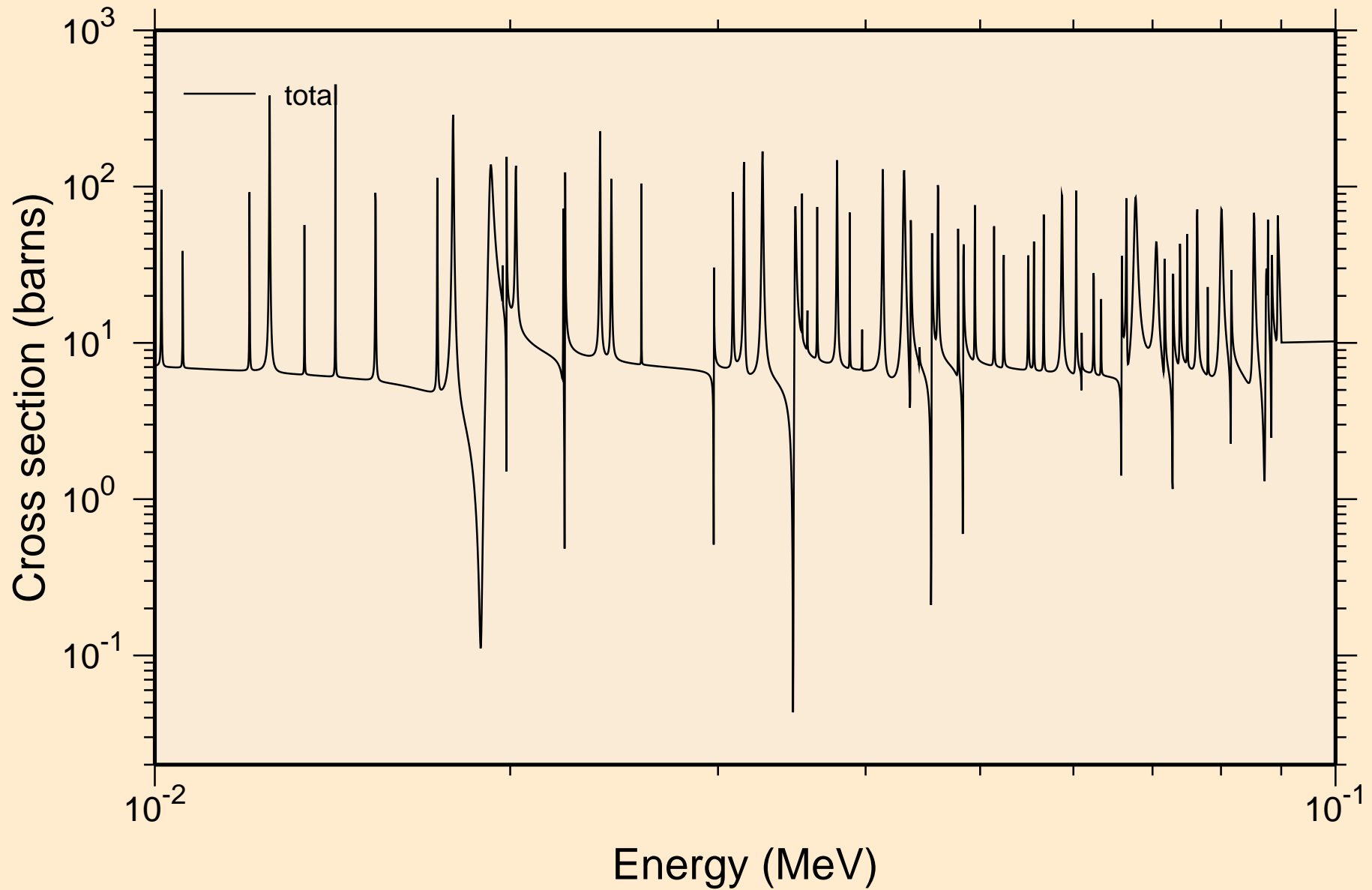
## Principal cross sections



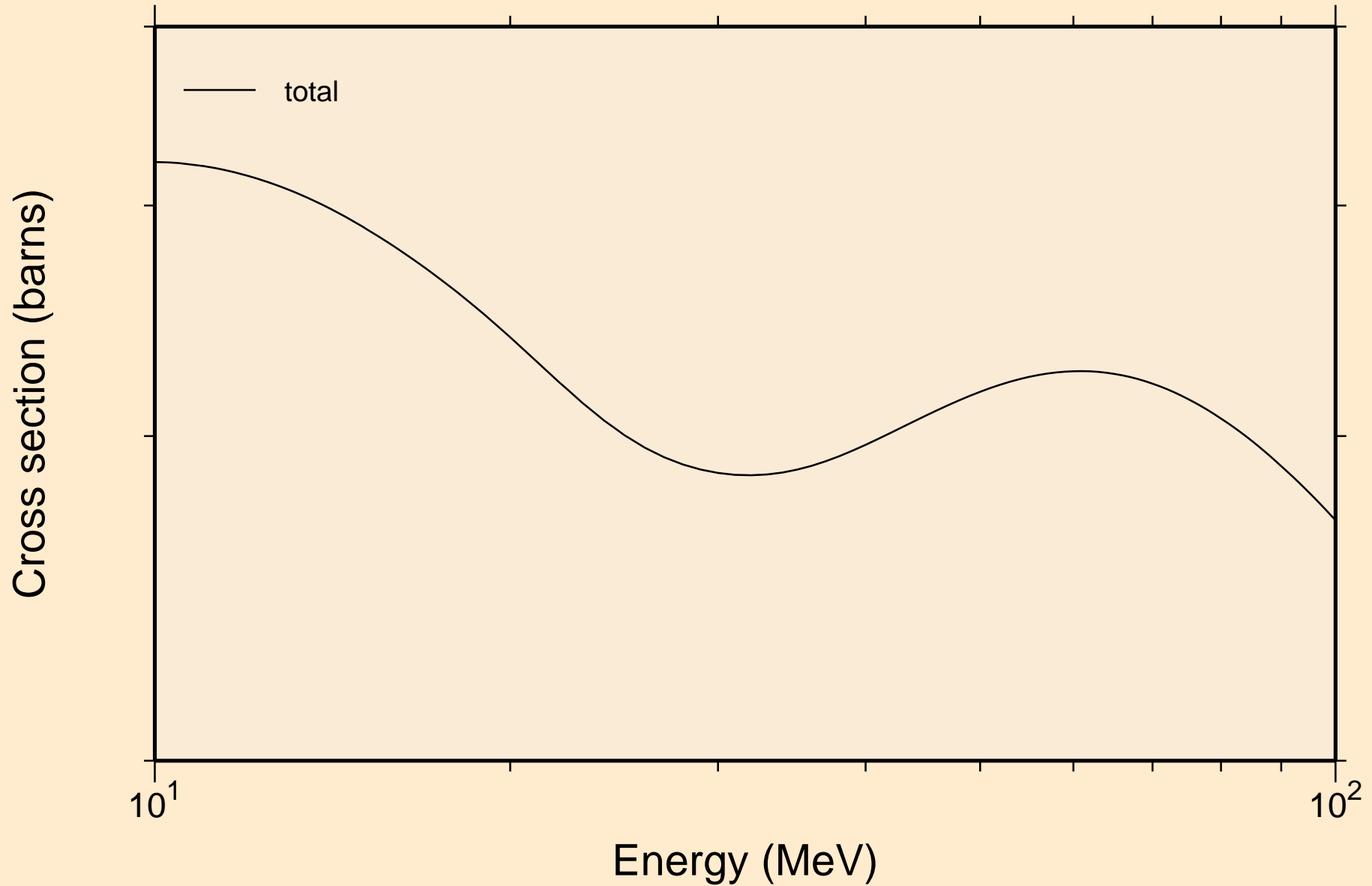
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resonance total cross section



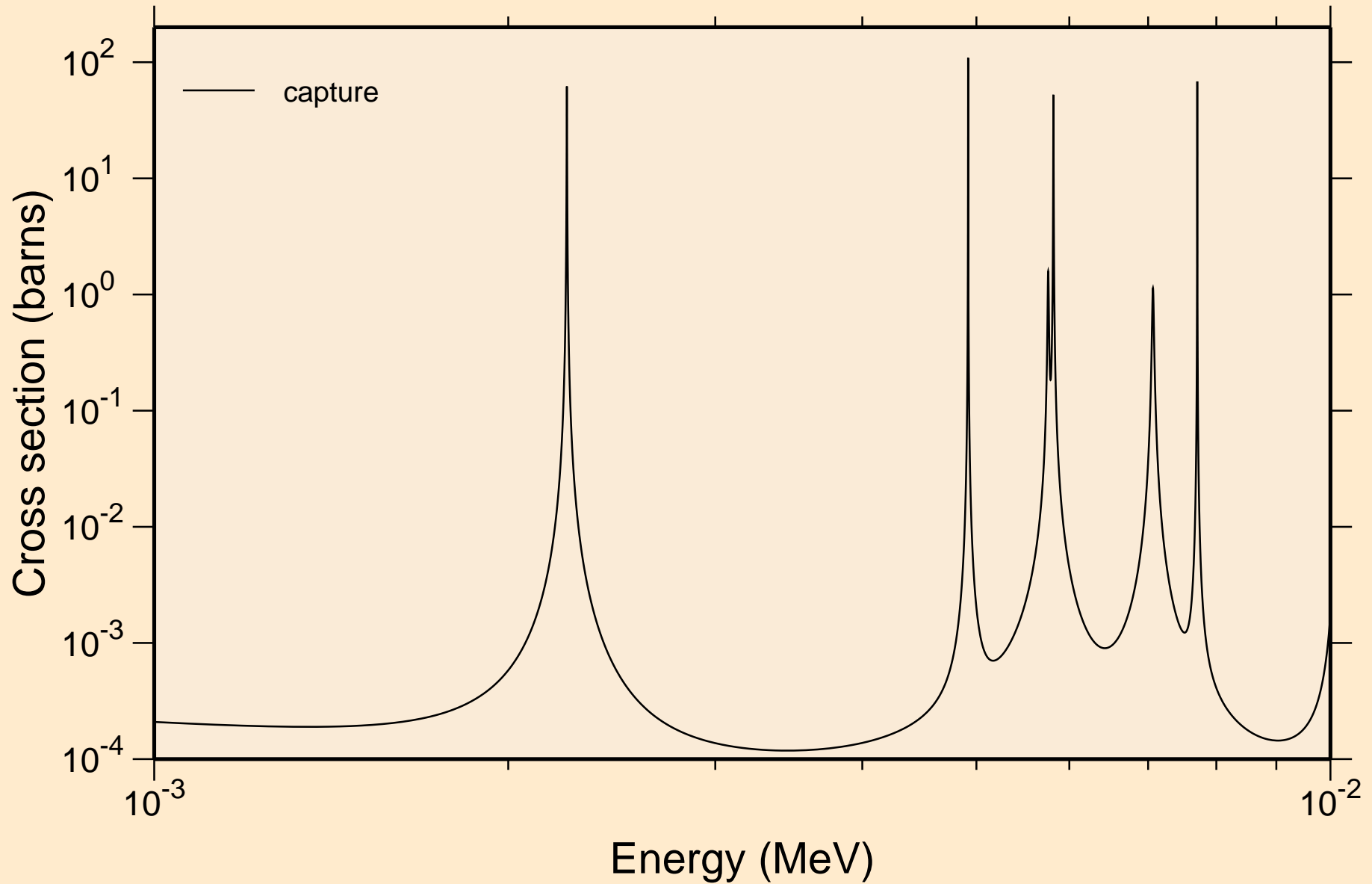
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resonance total cross section



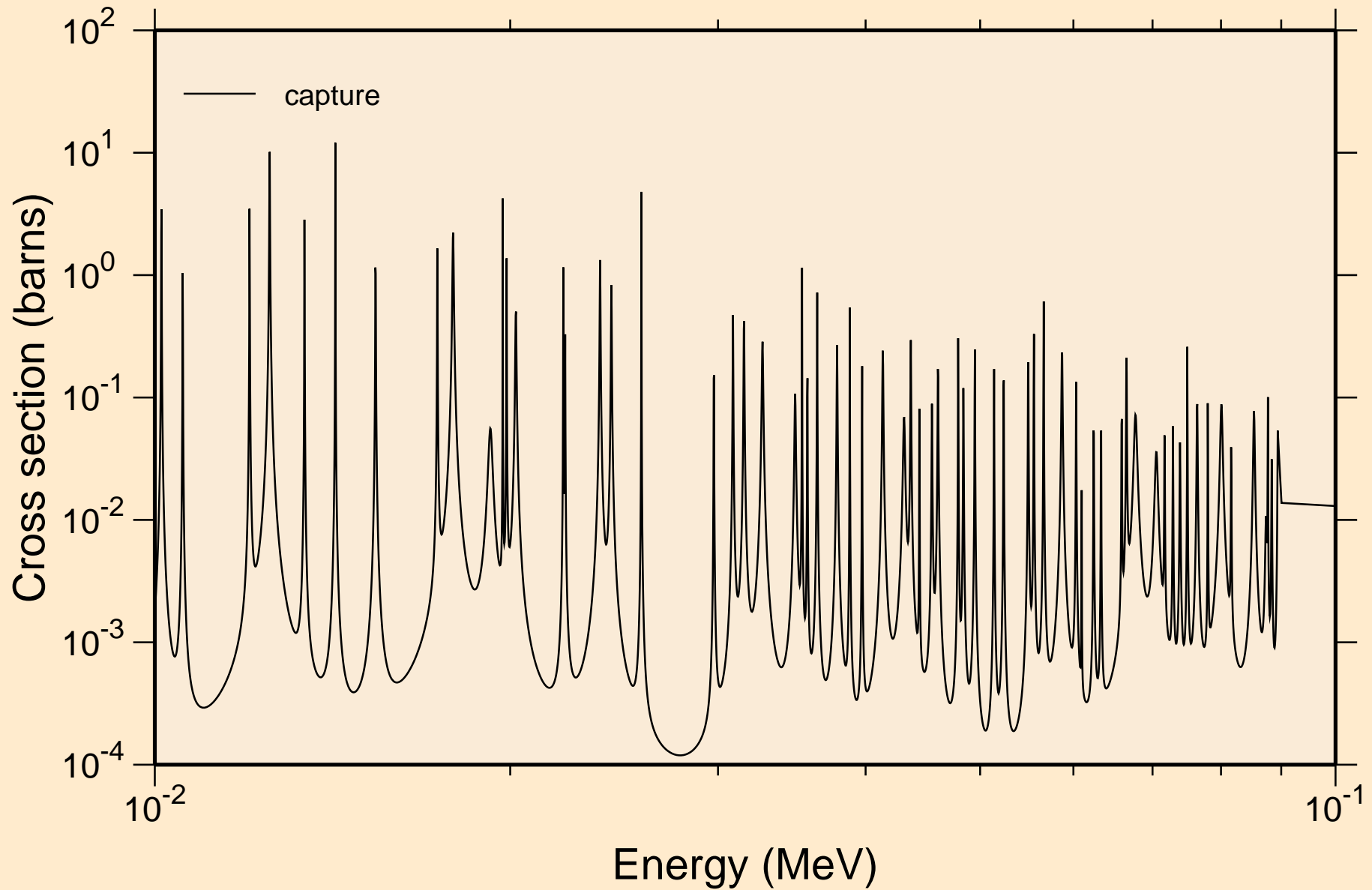
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resonance total cross section



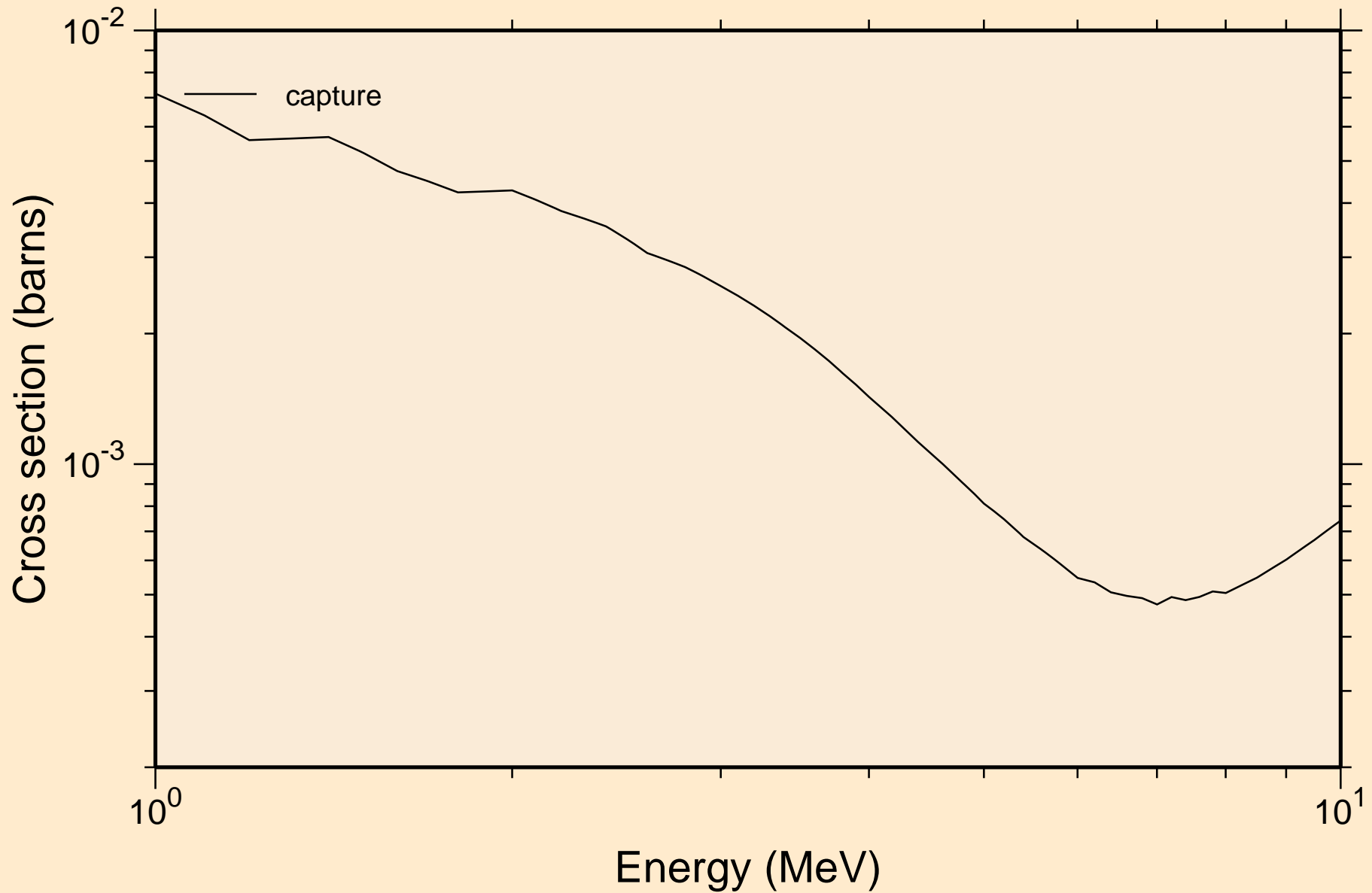
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



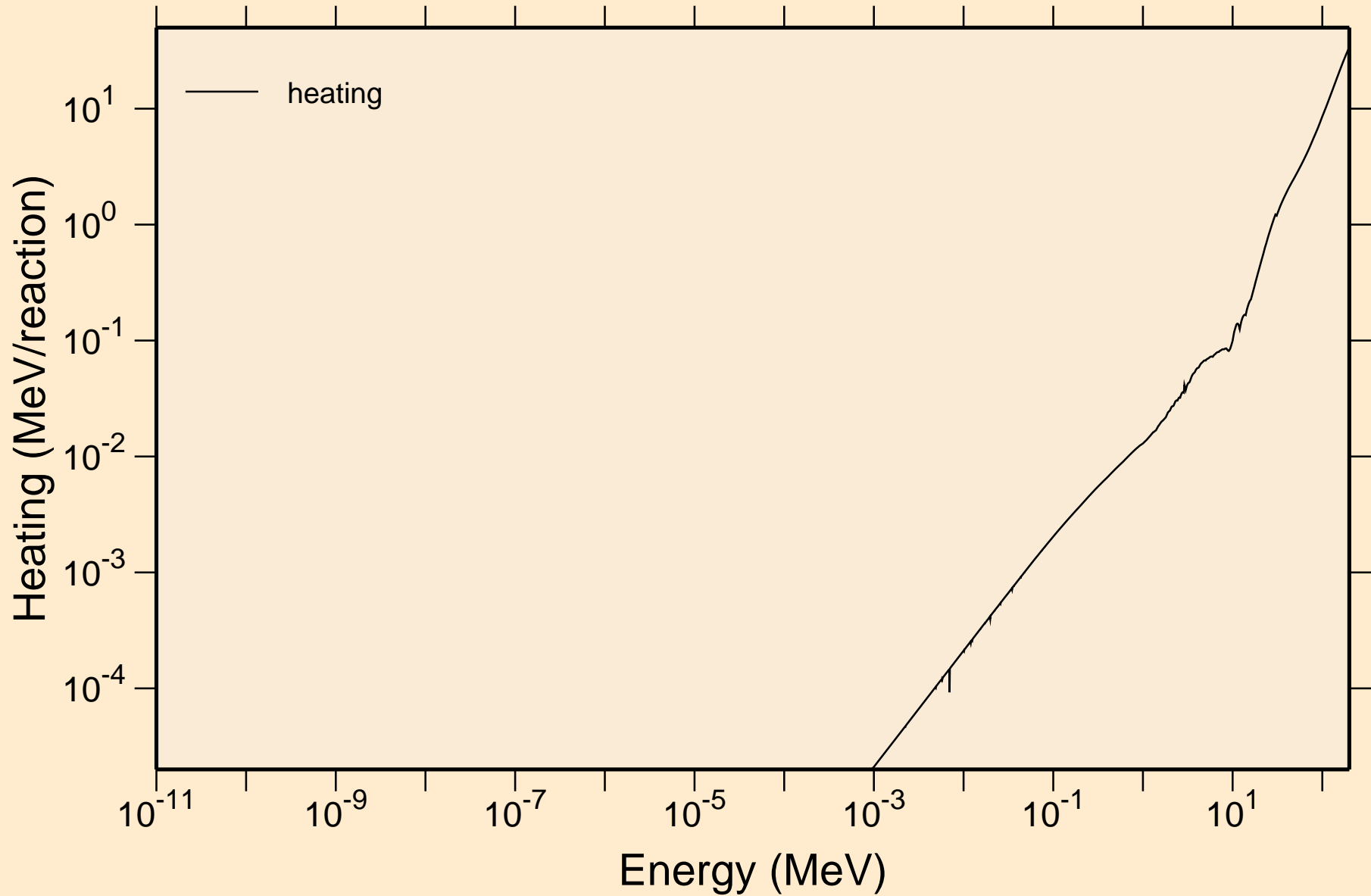
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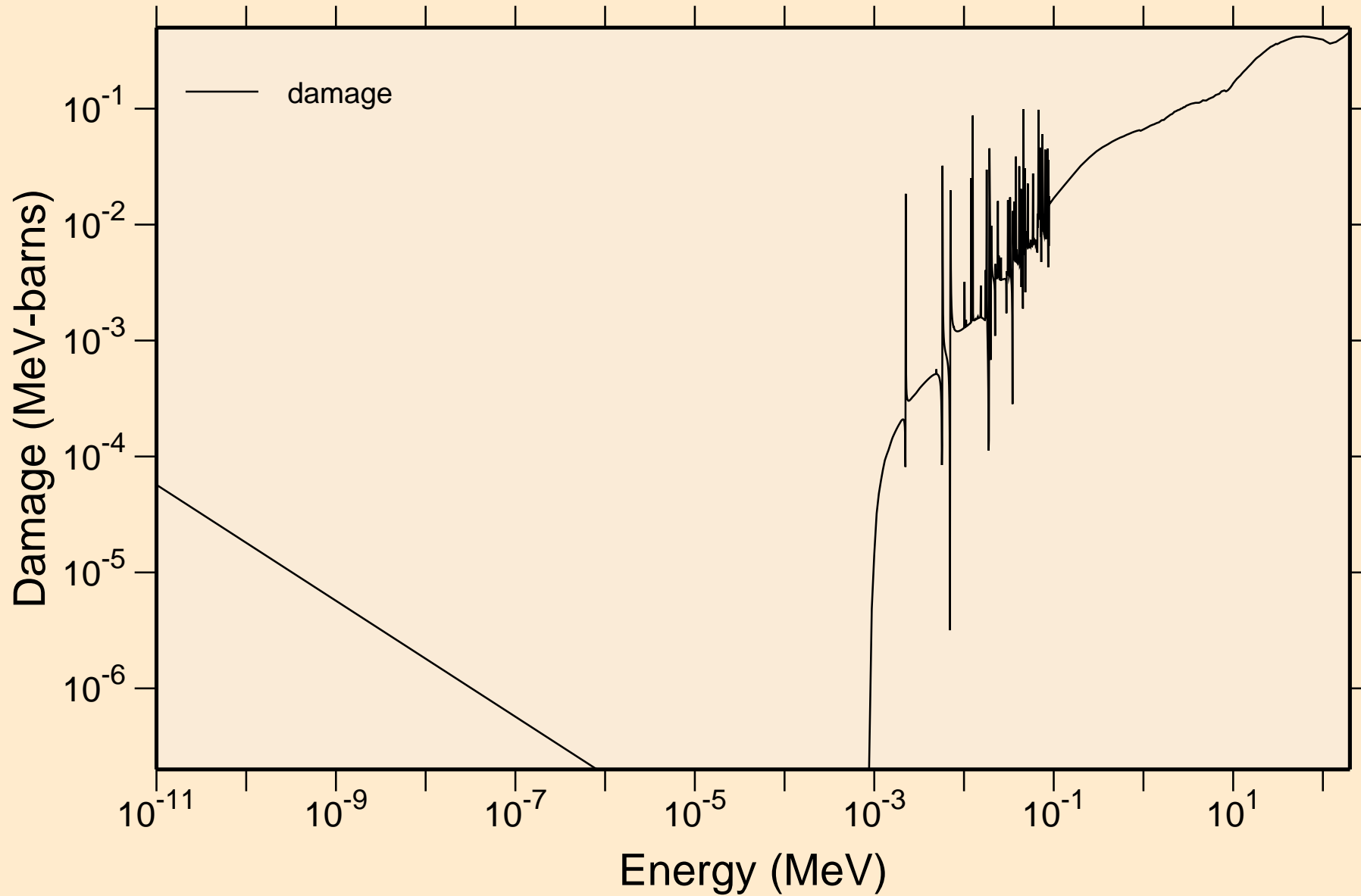
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resonance absorption cross sections



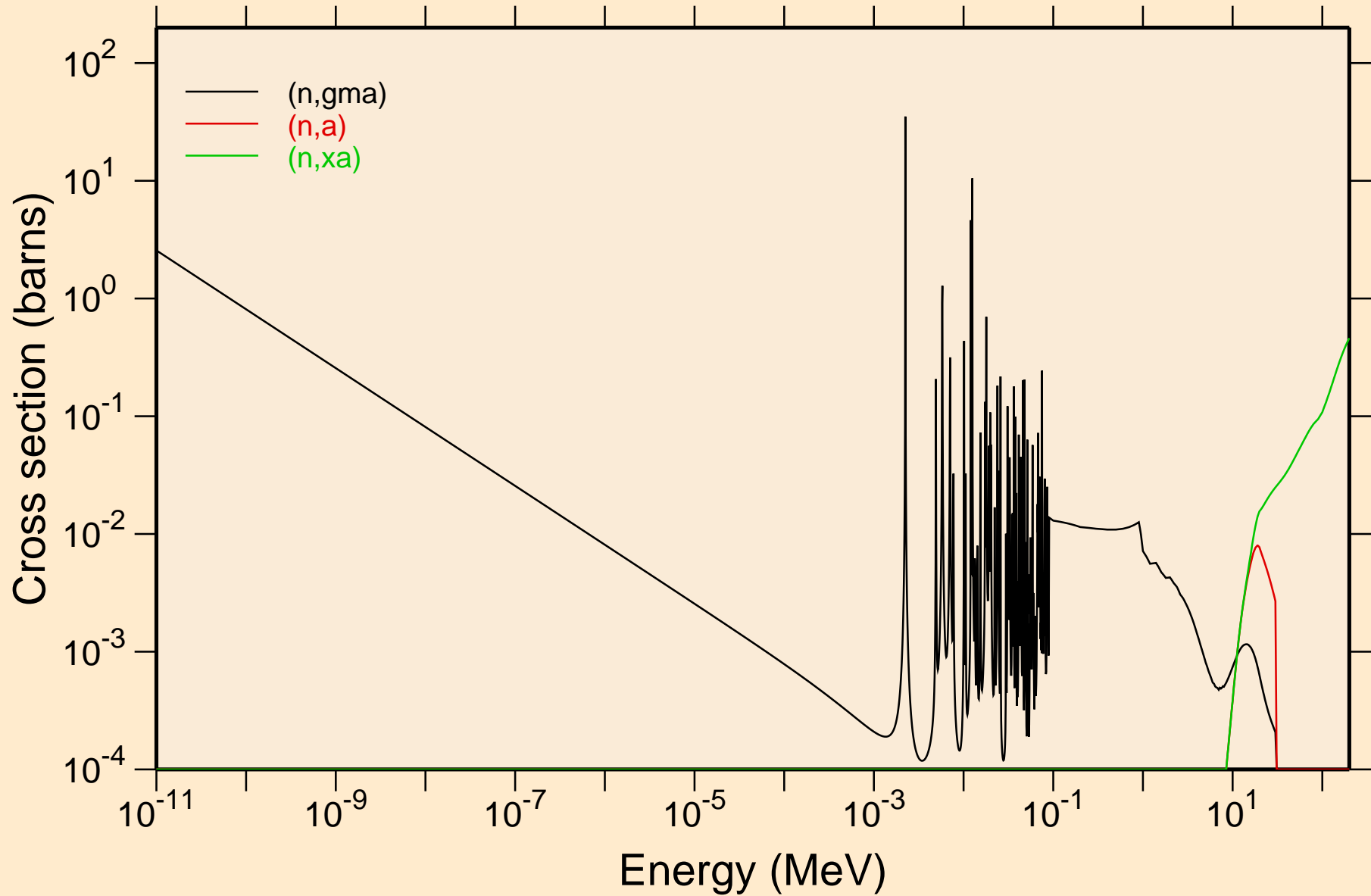
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

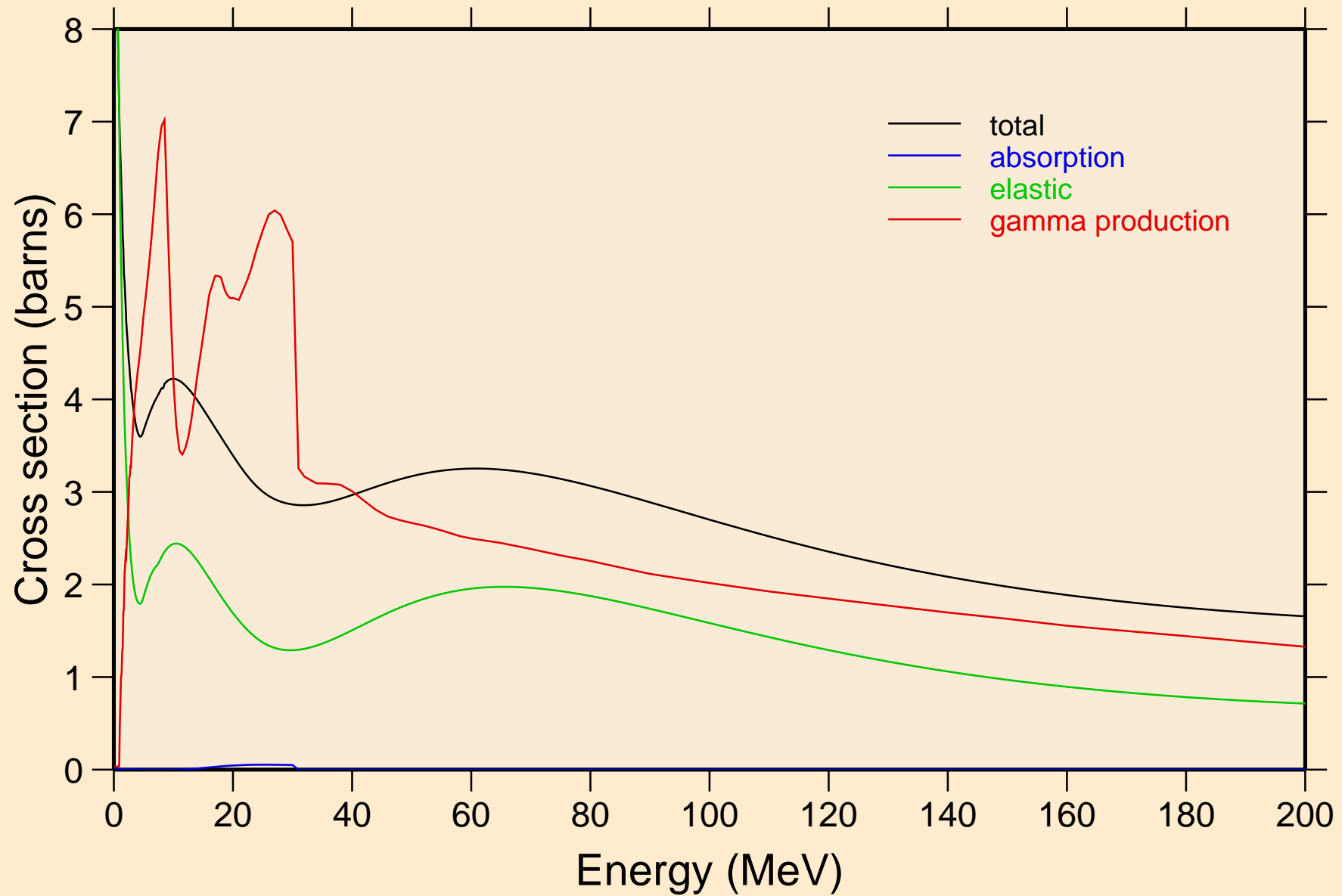


ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



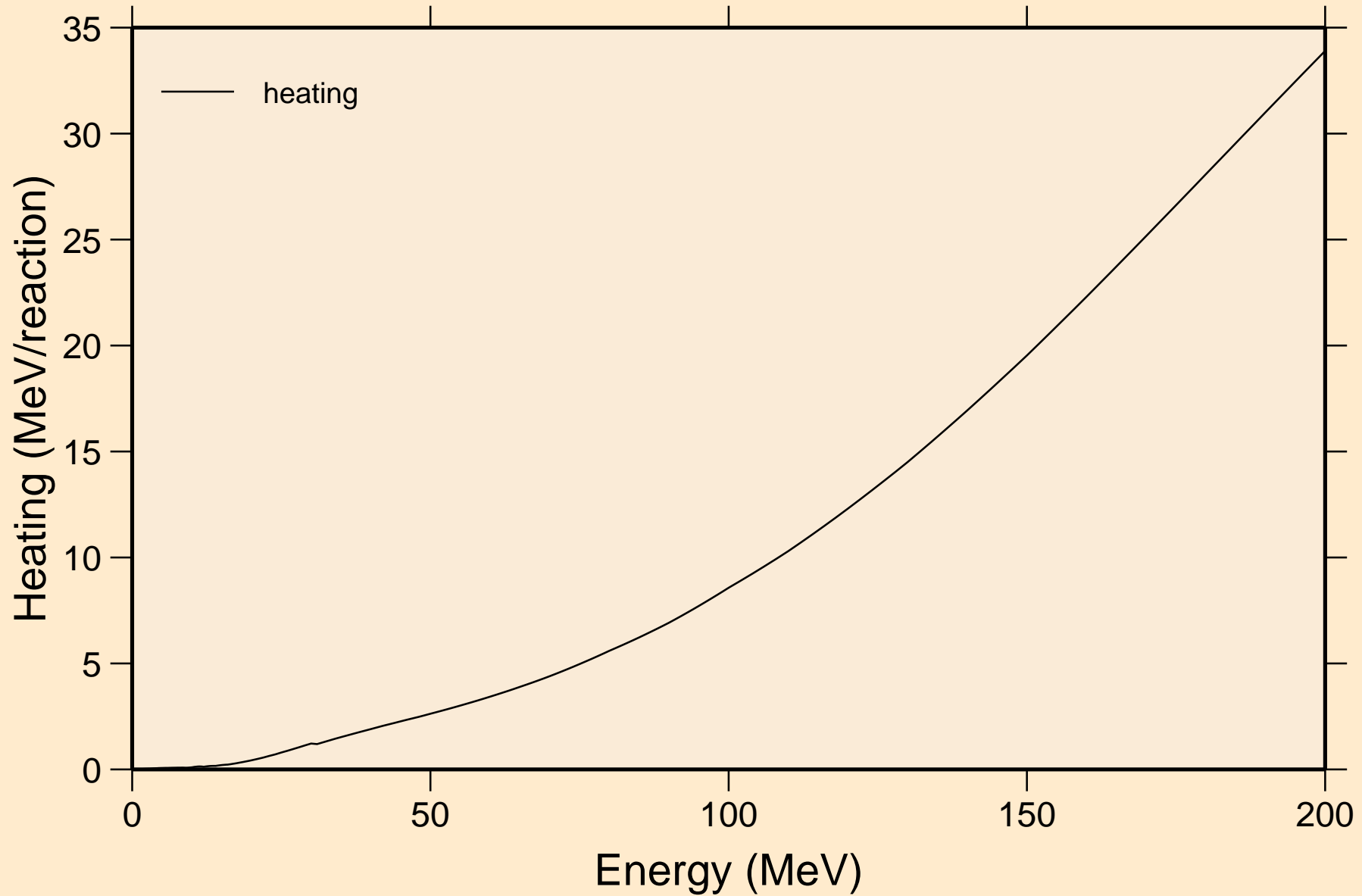
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## Principal cross sections



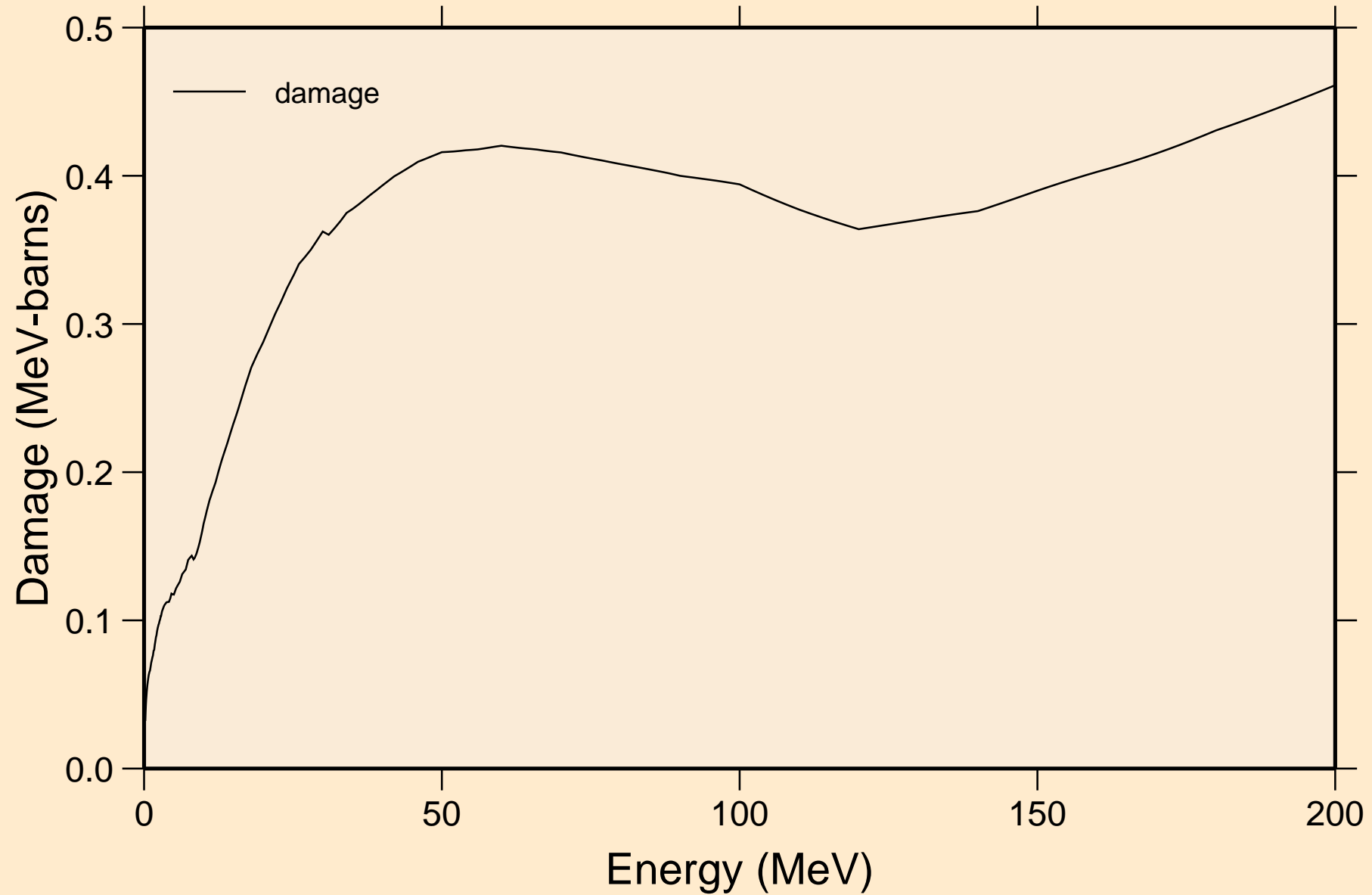
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## Heating

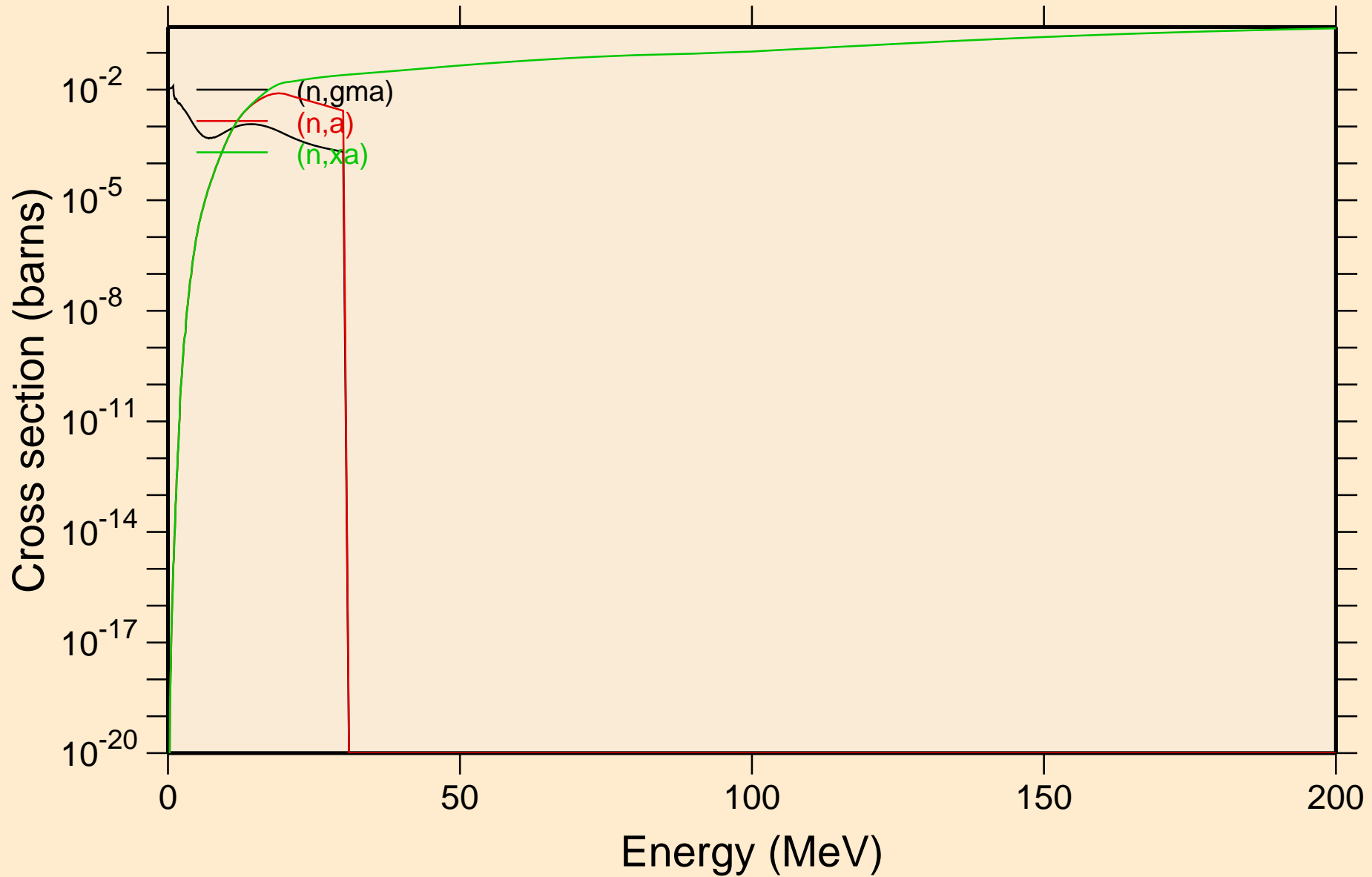


# ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

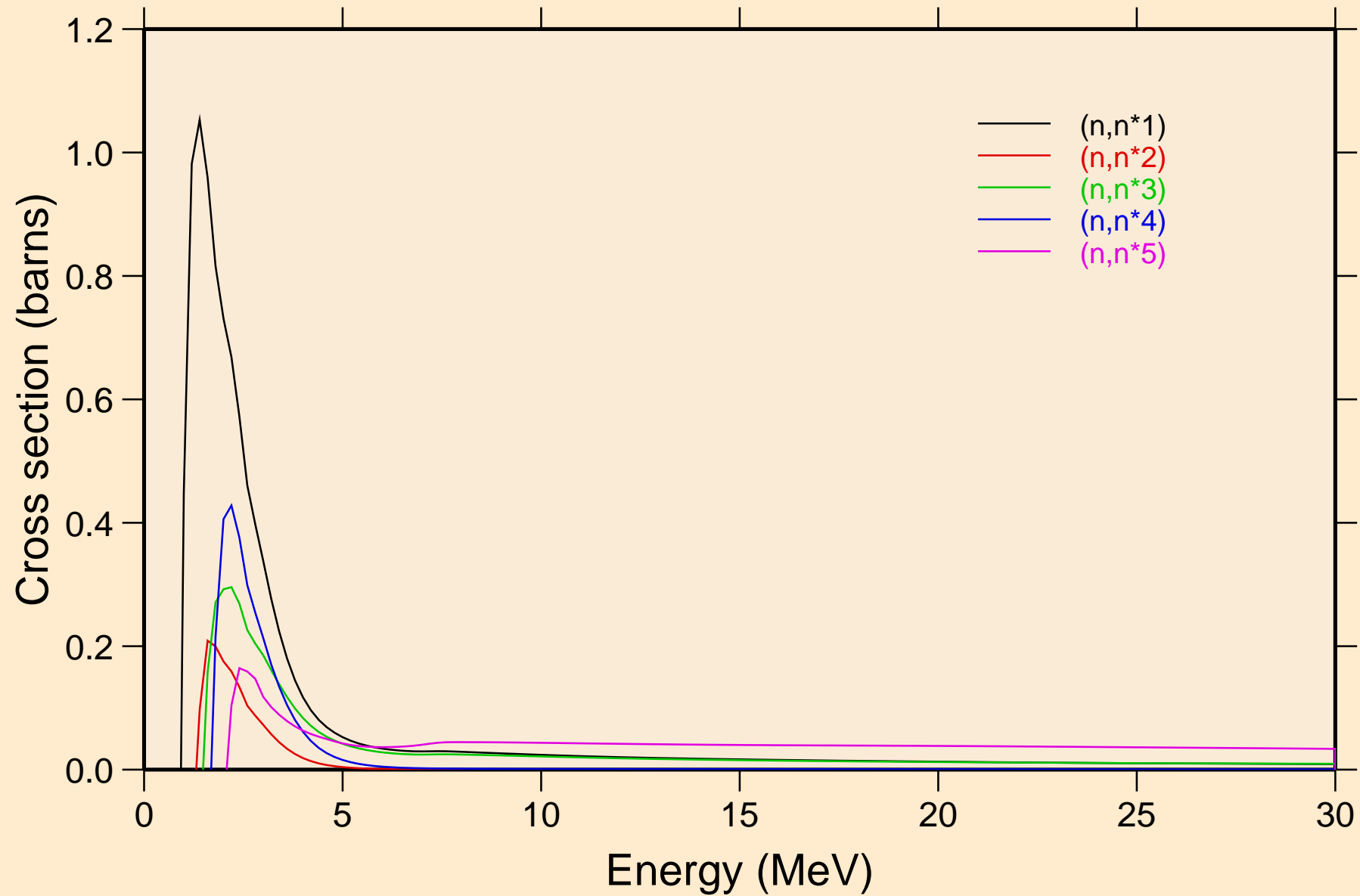
## Damage



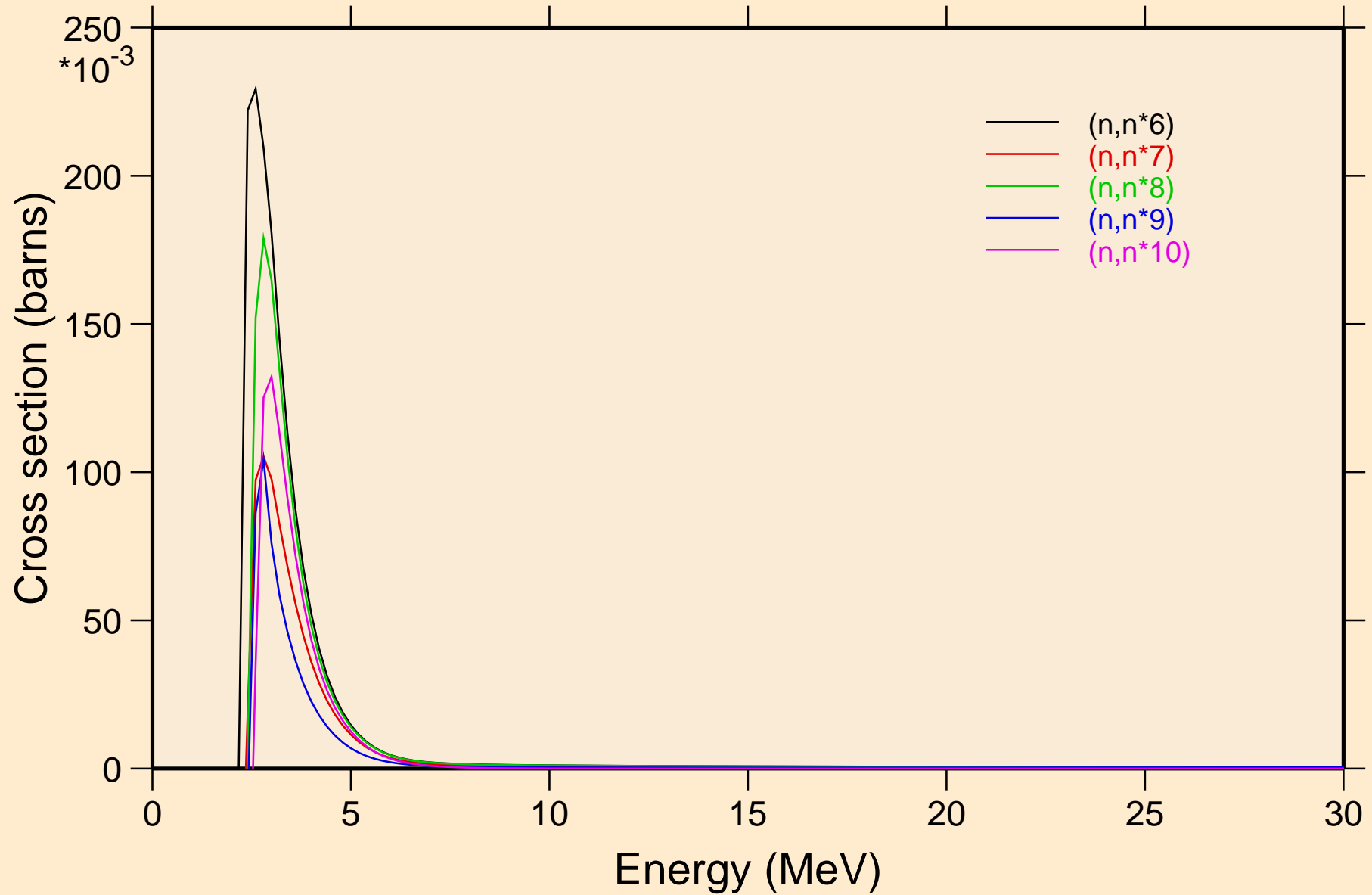
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



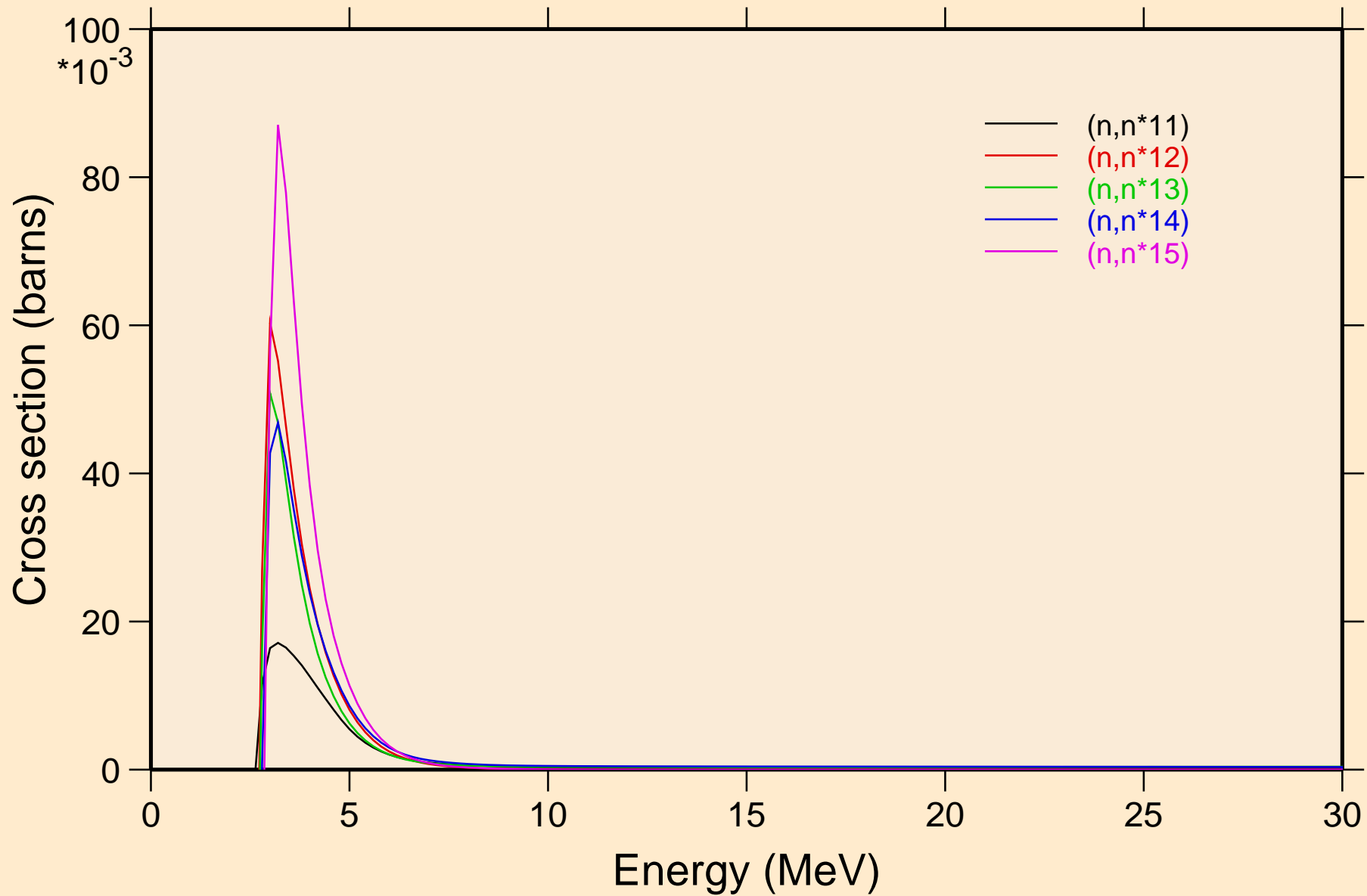
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Inelastic levels



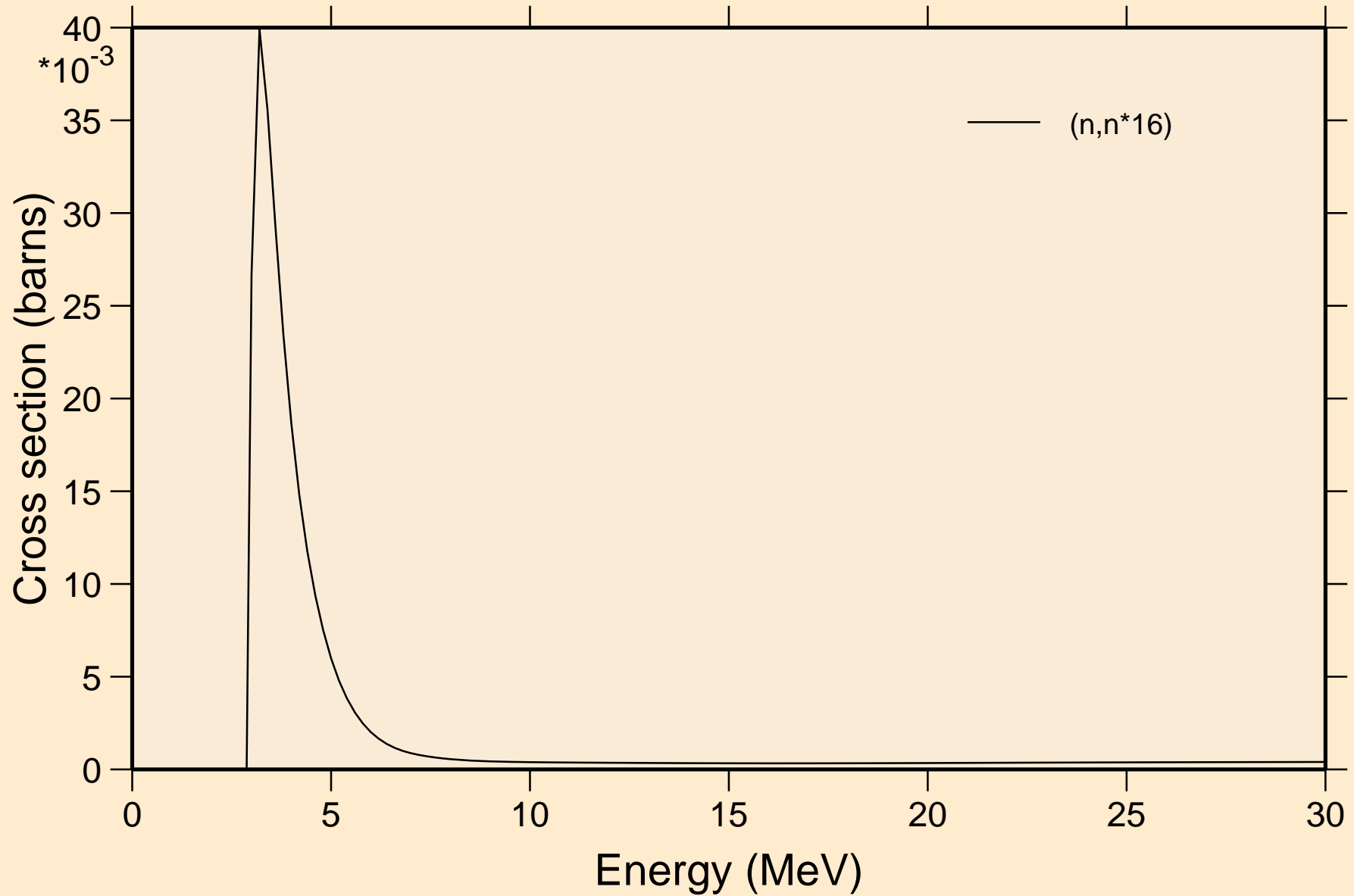
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Inelastic levels



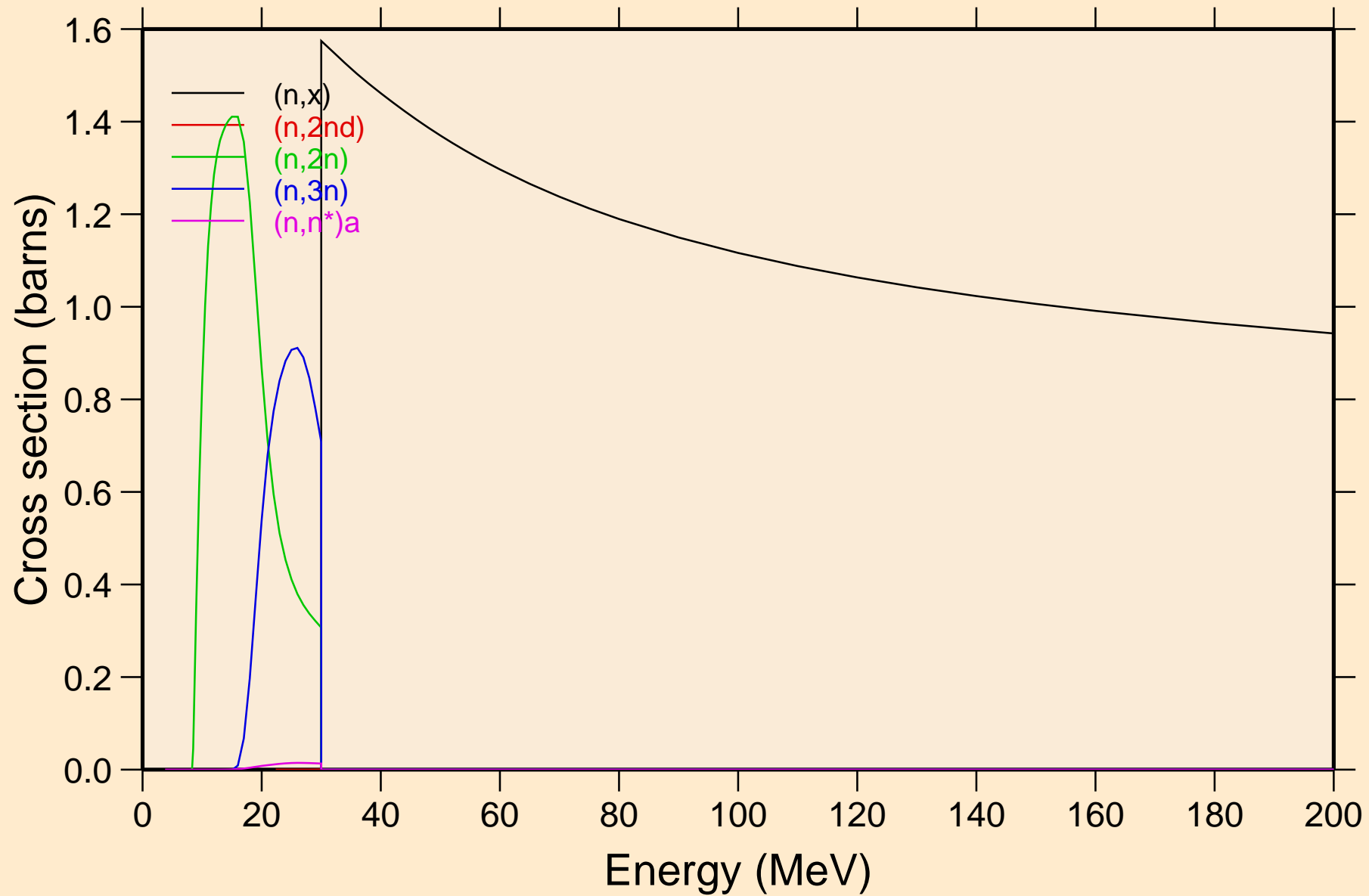
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Inelastic levels



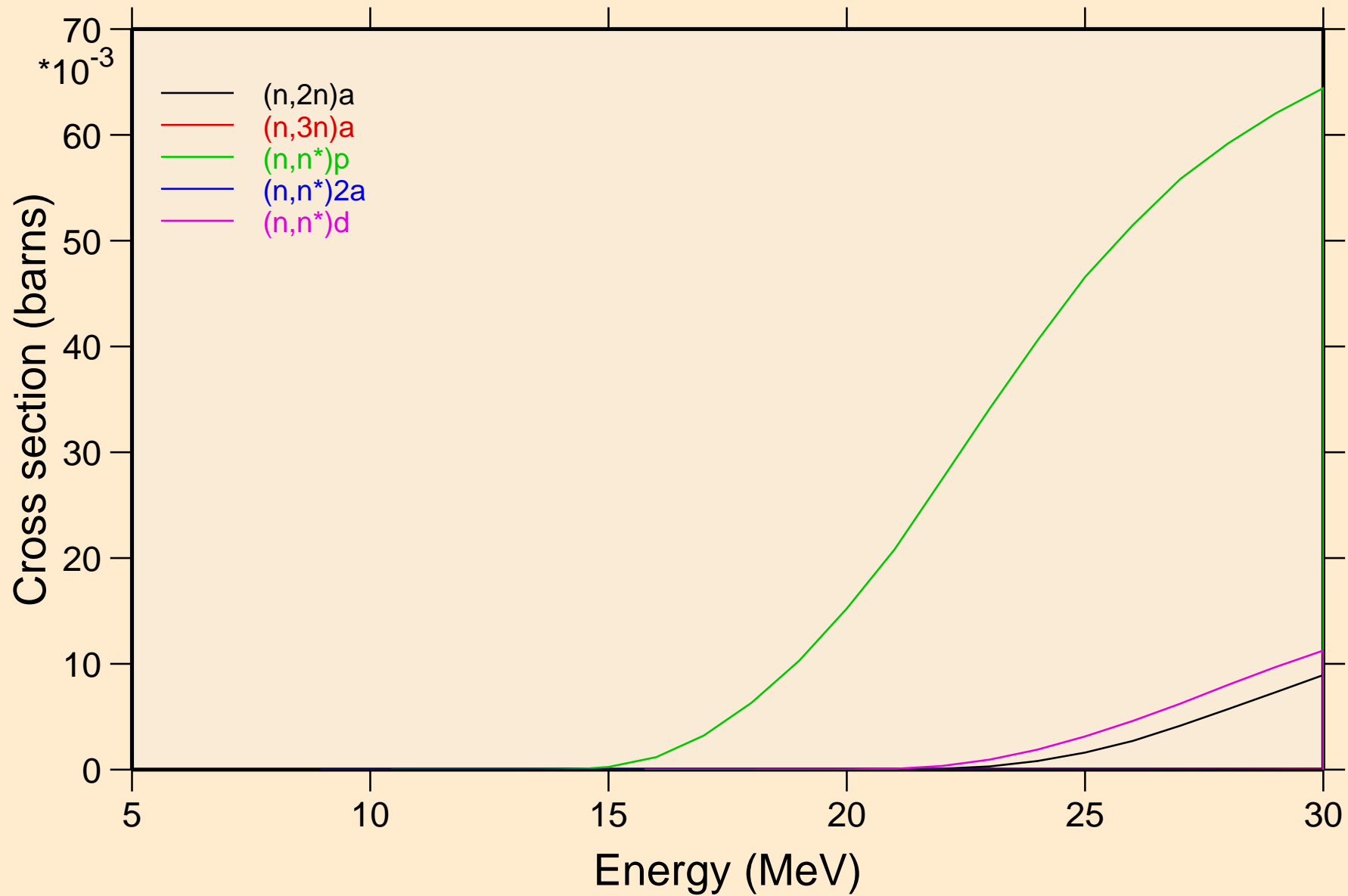
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

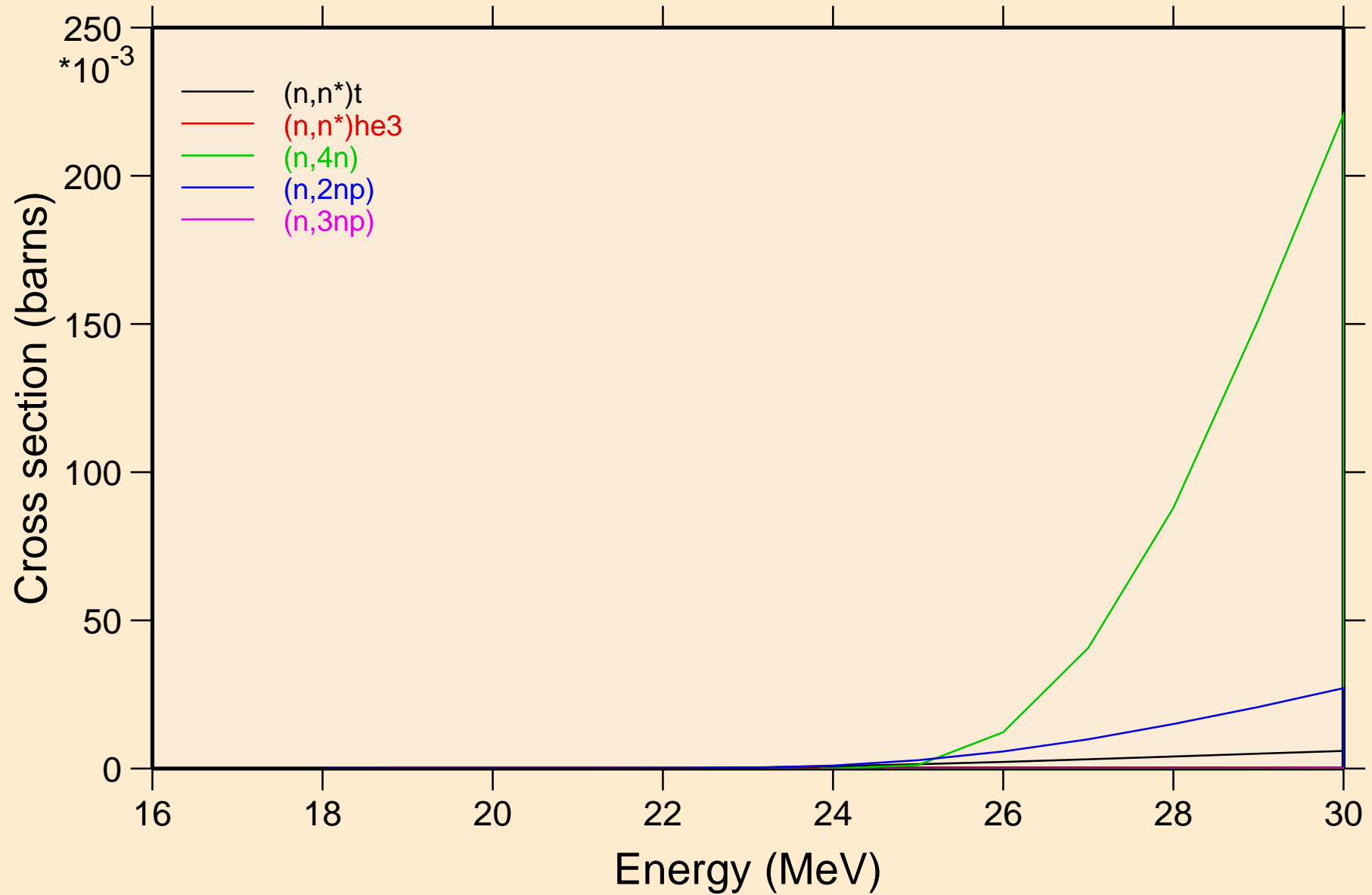


ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

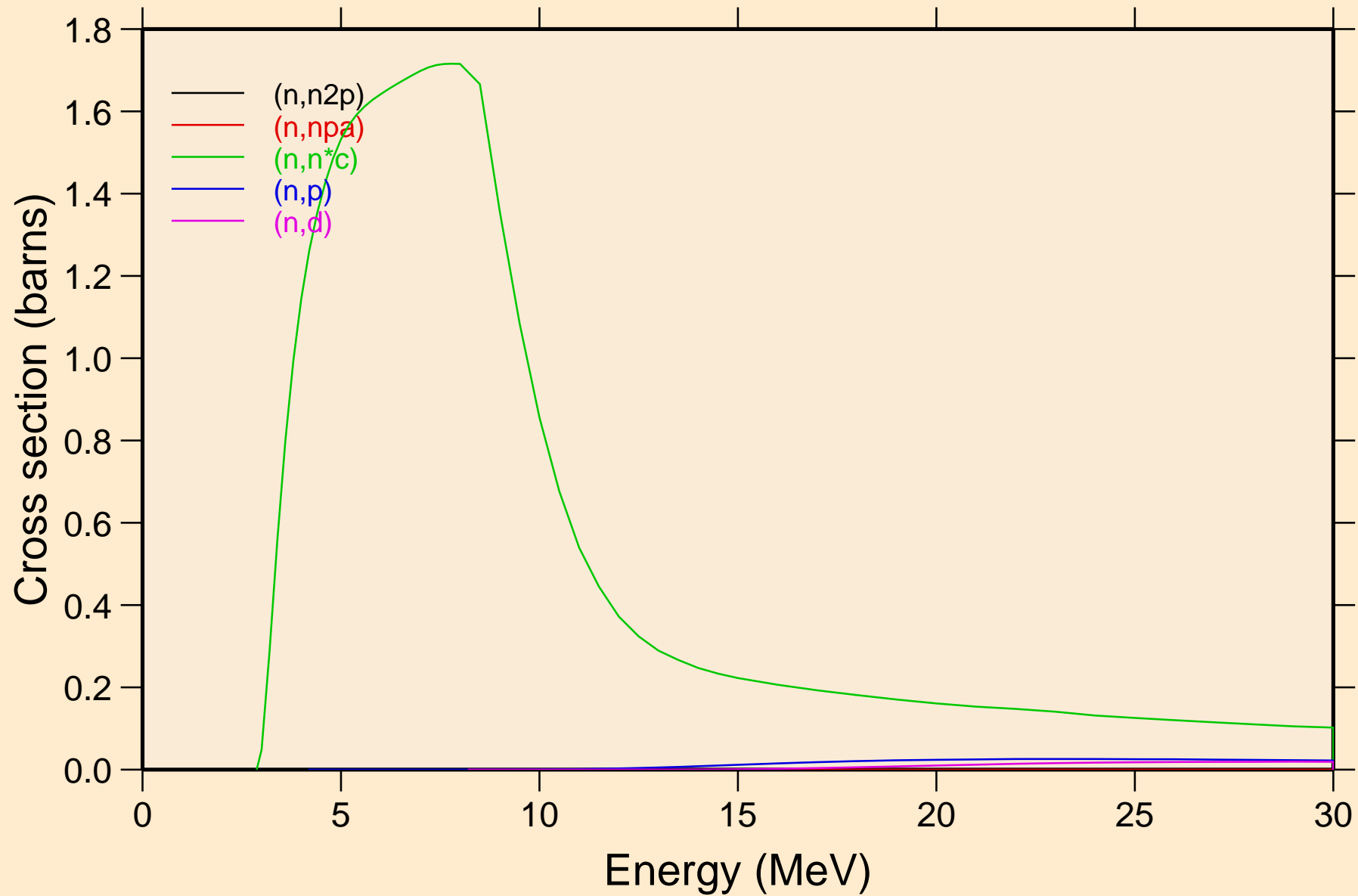


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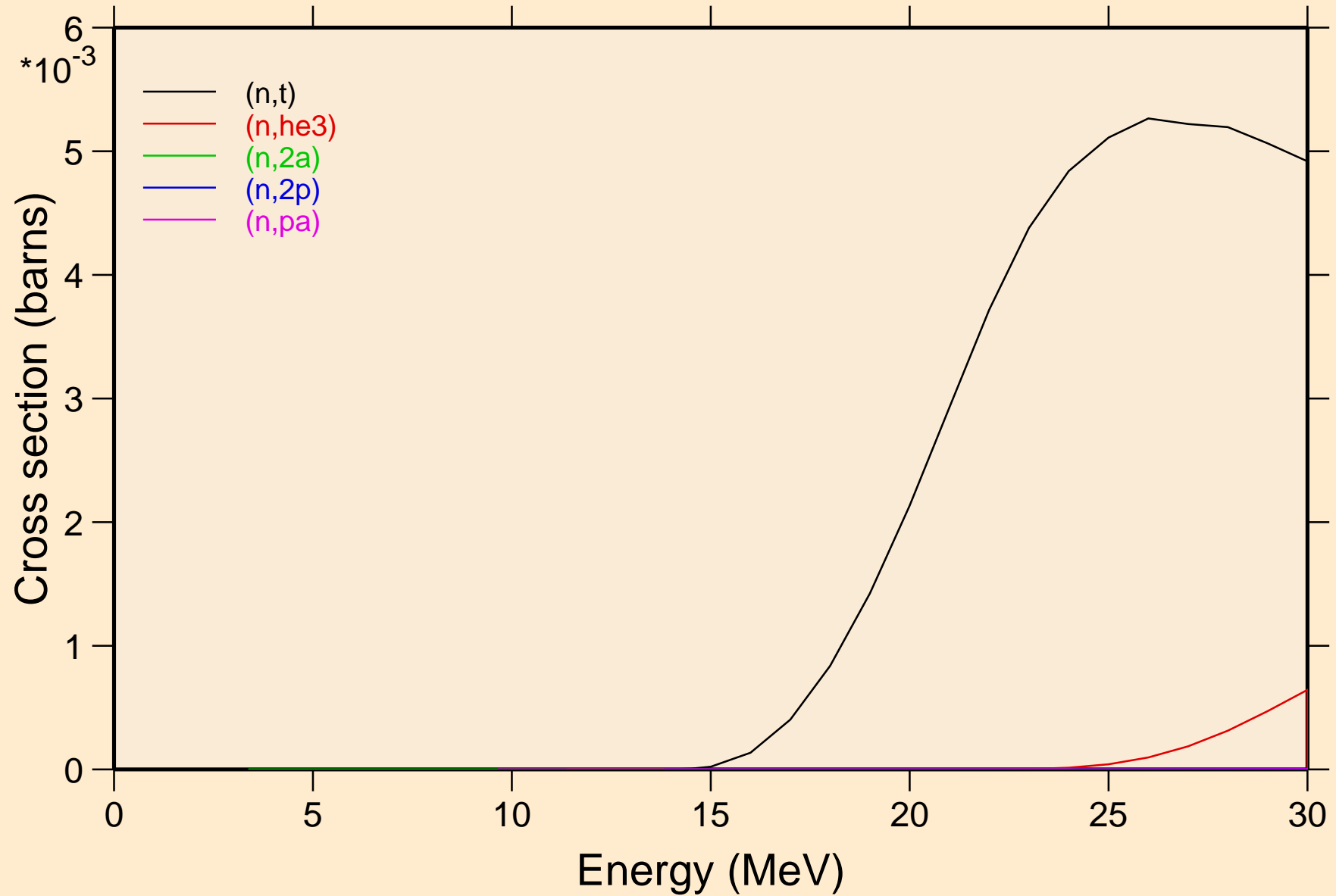
## Threshold reactions



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

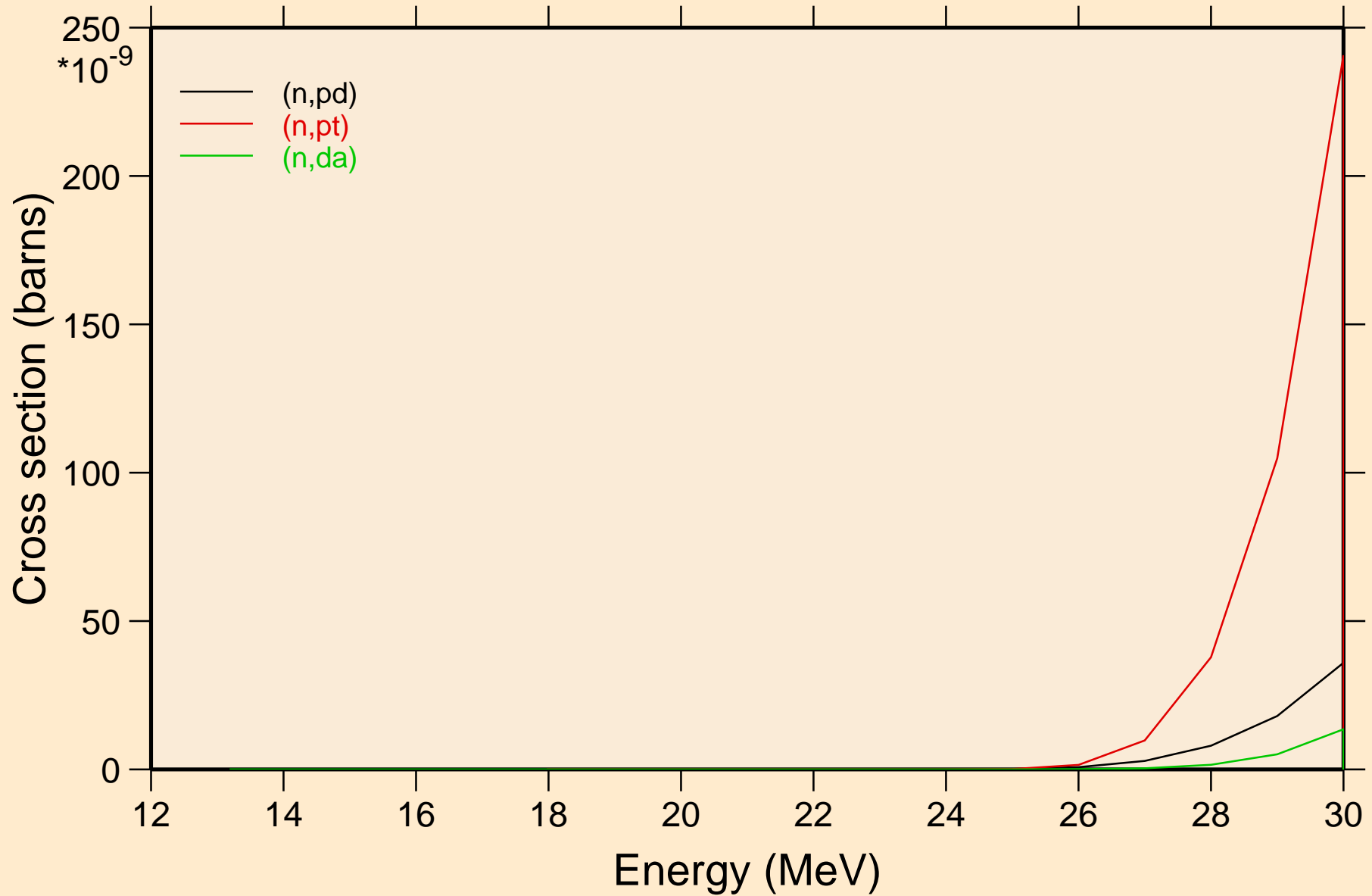


ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

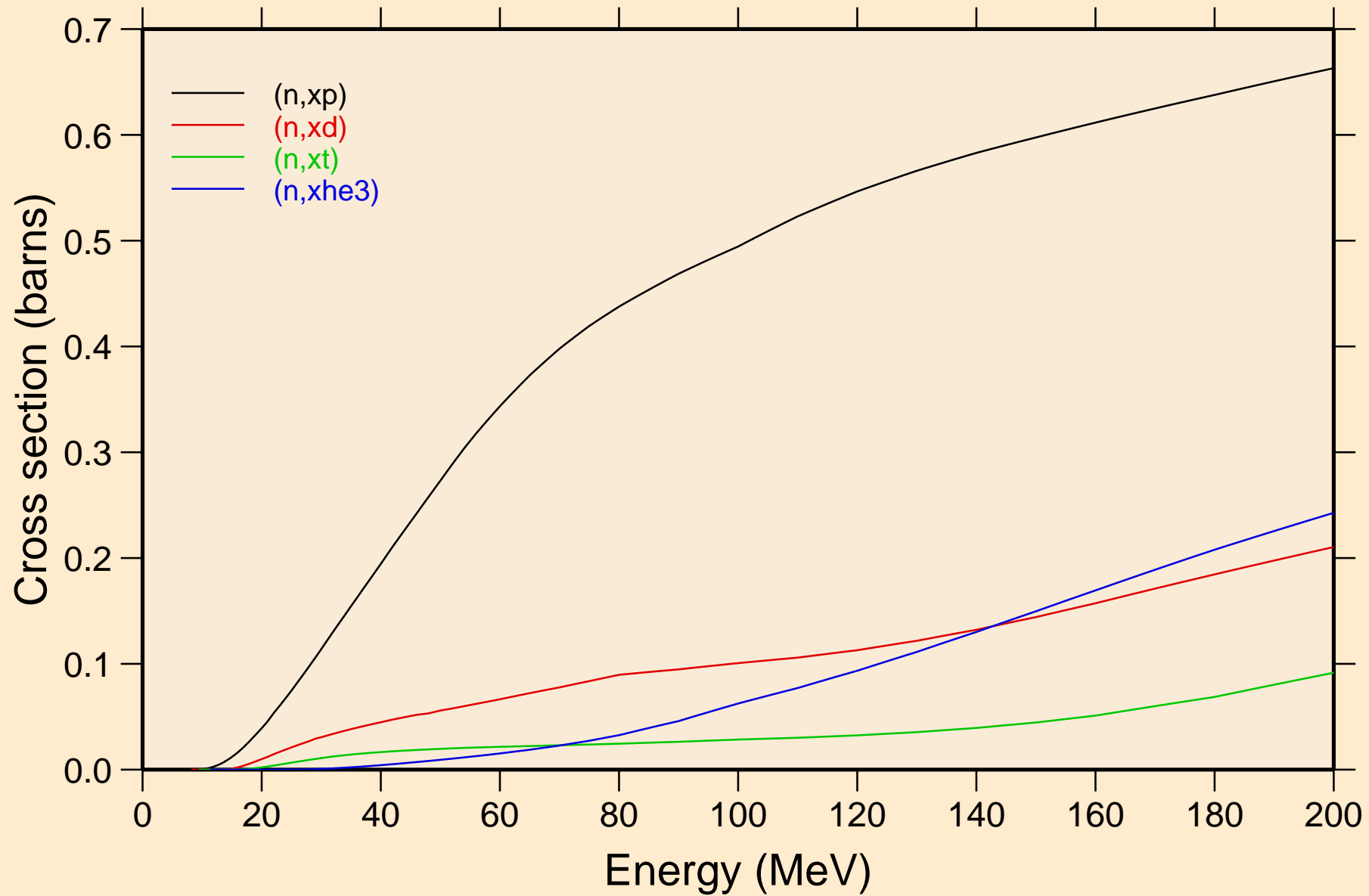


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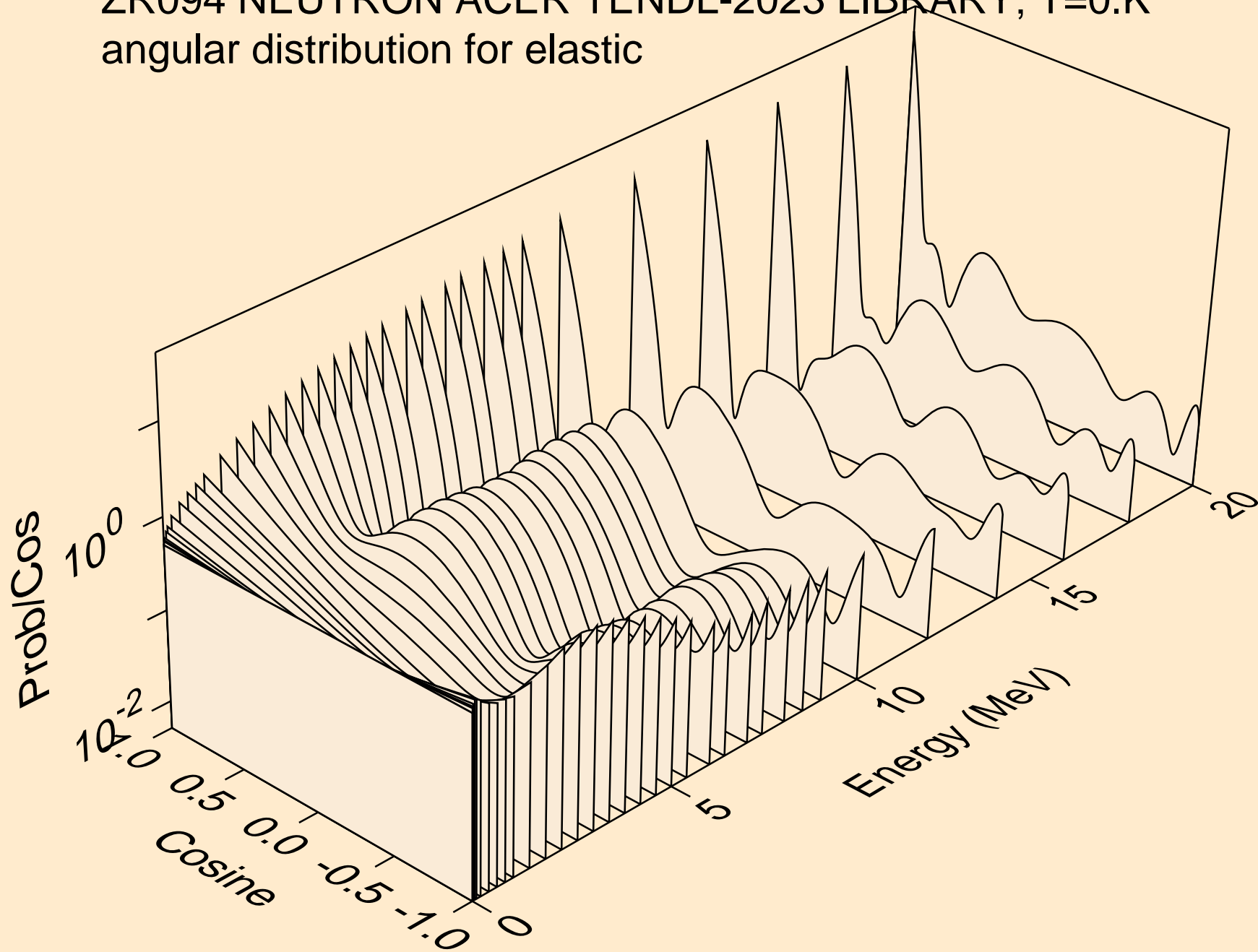
## Threshold reactions



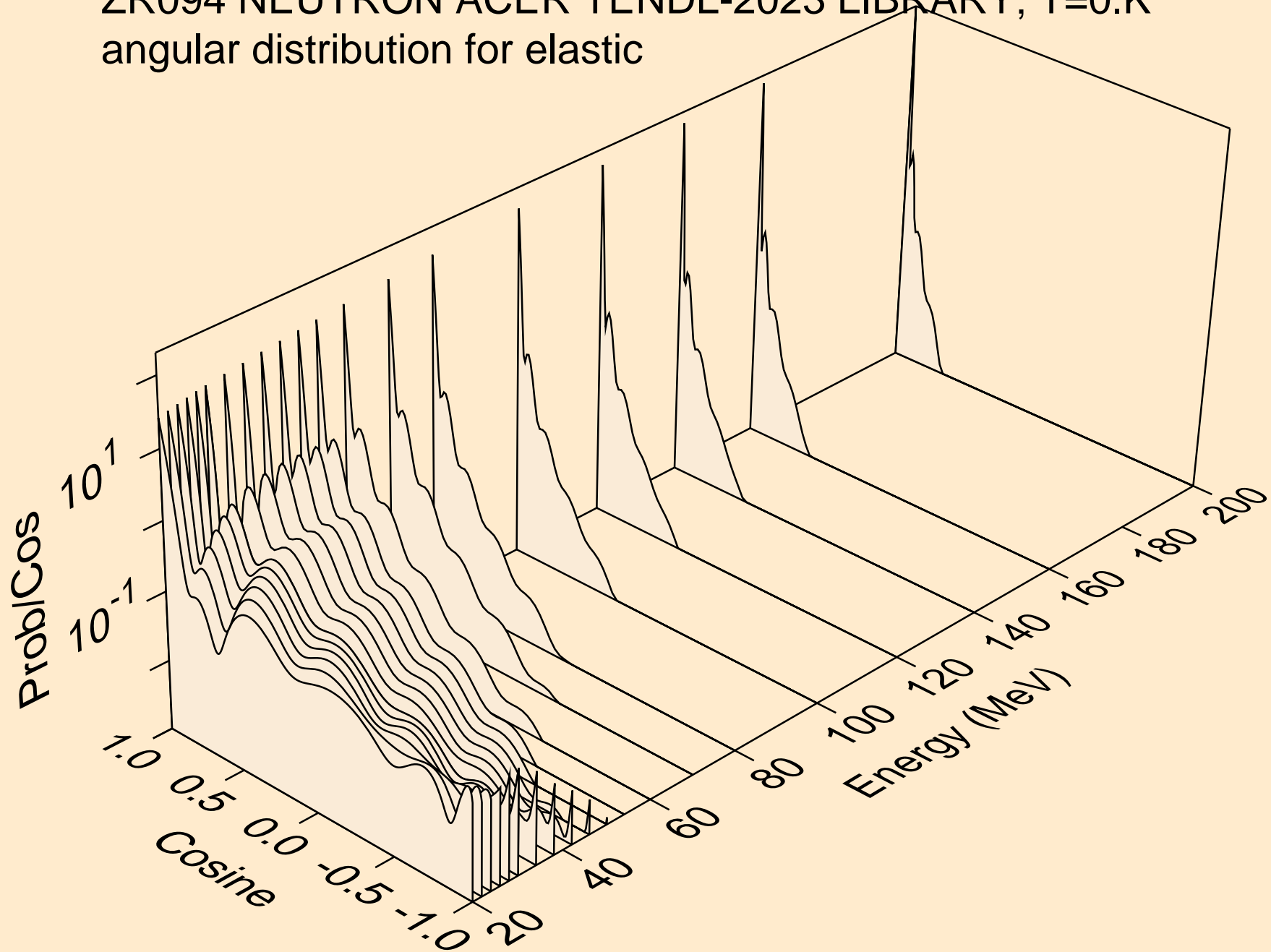
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Threshold reactions



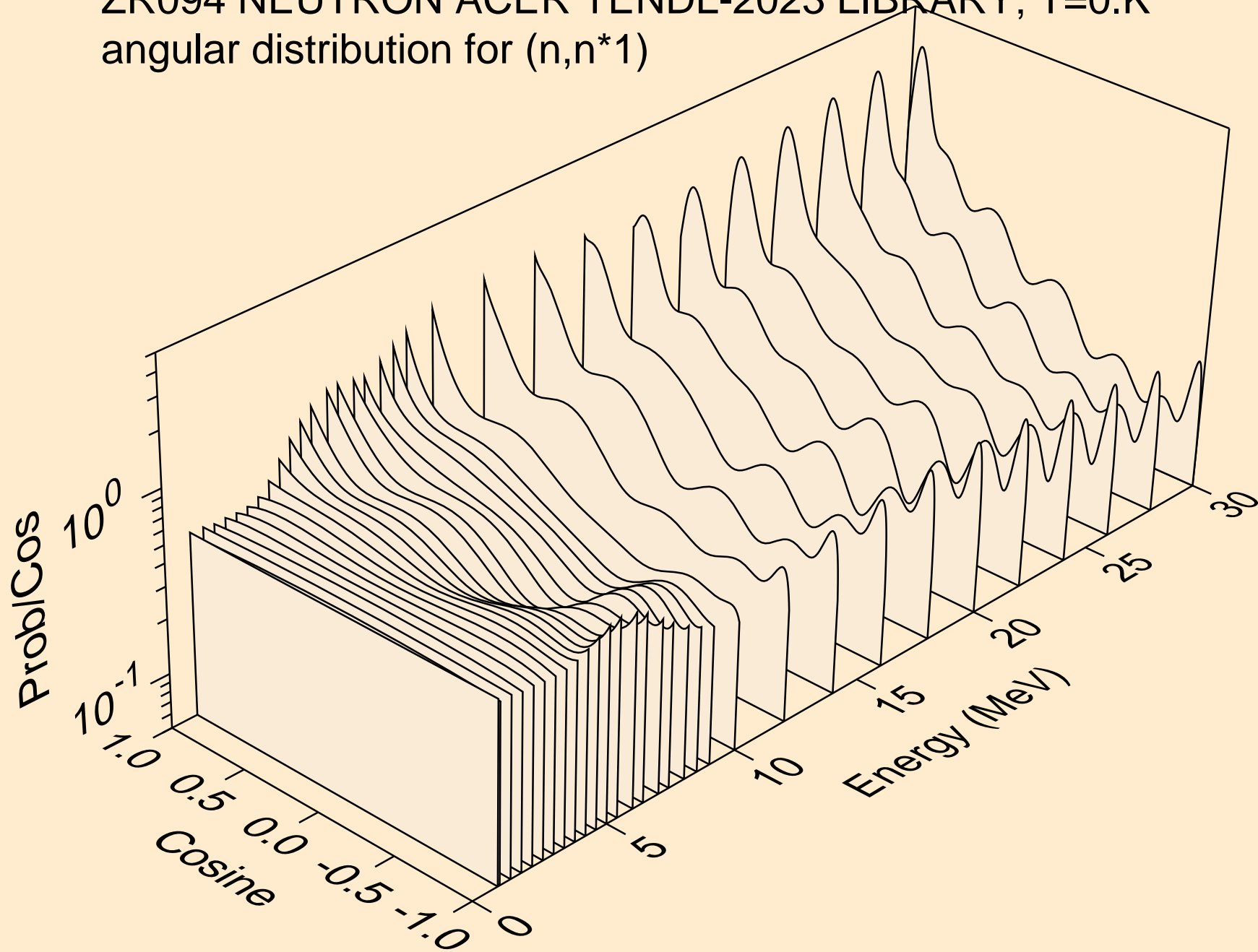
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angular distribution for elastic



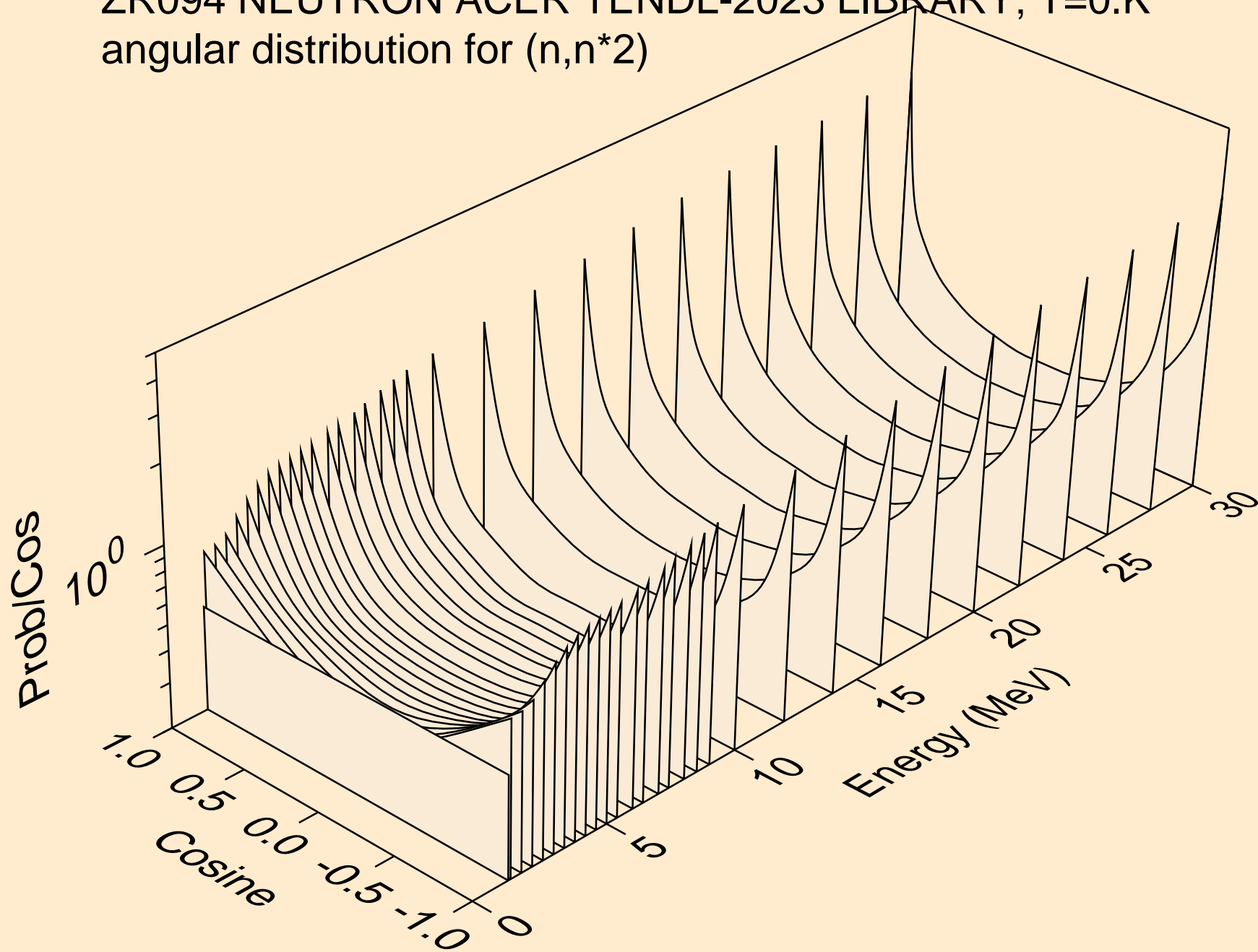
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angular distribution for elastic



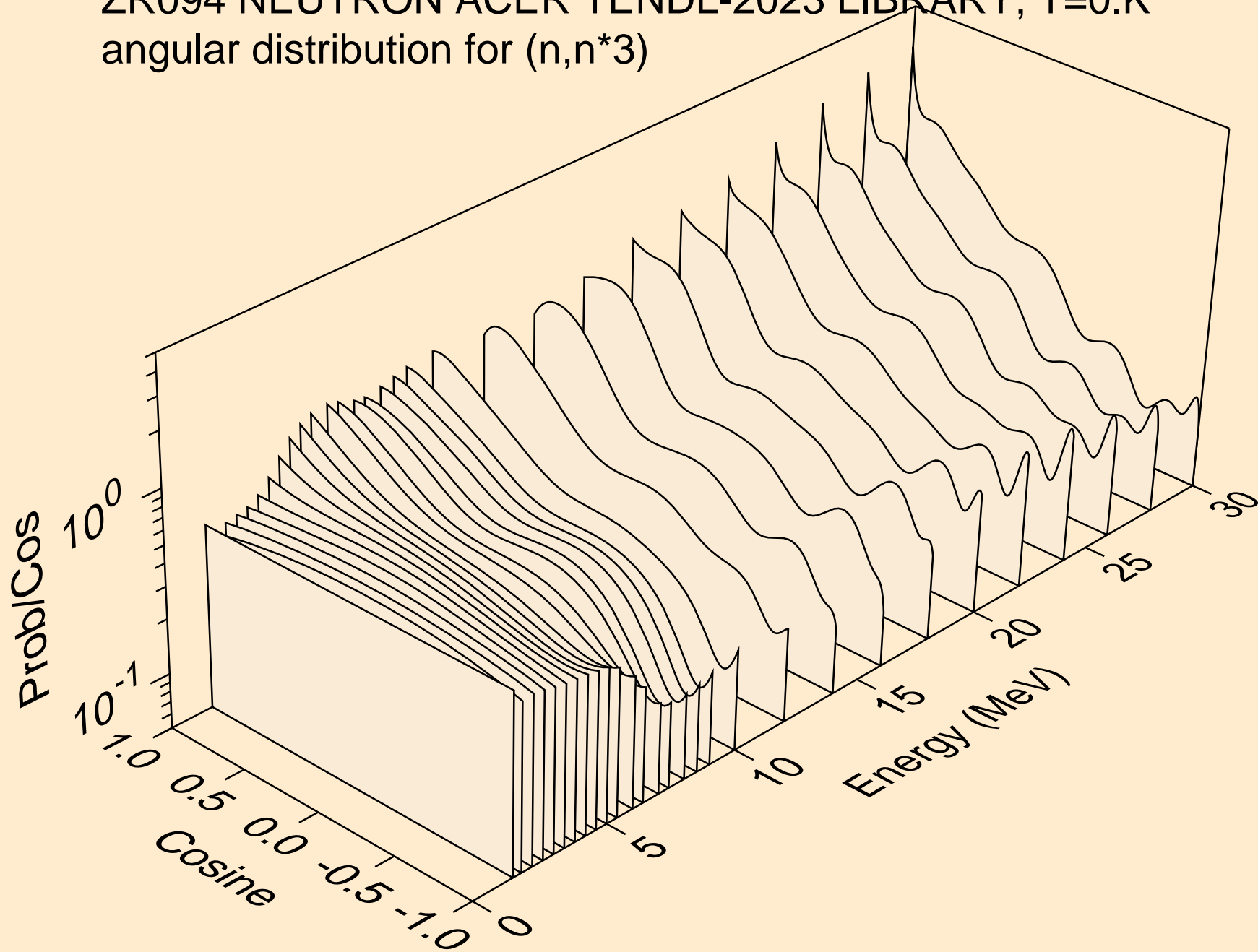
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angular distribution for (n,n\*1)



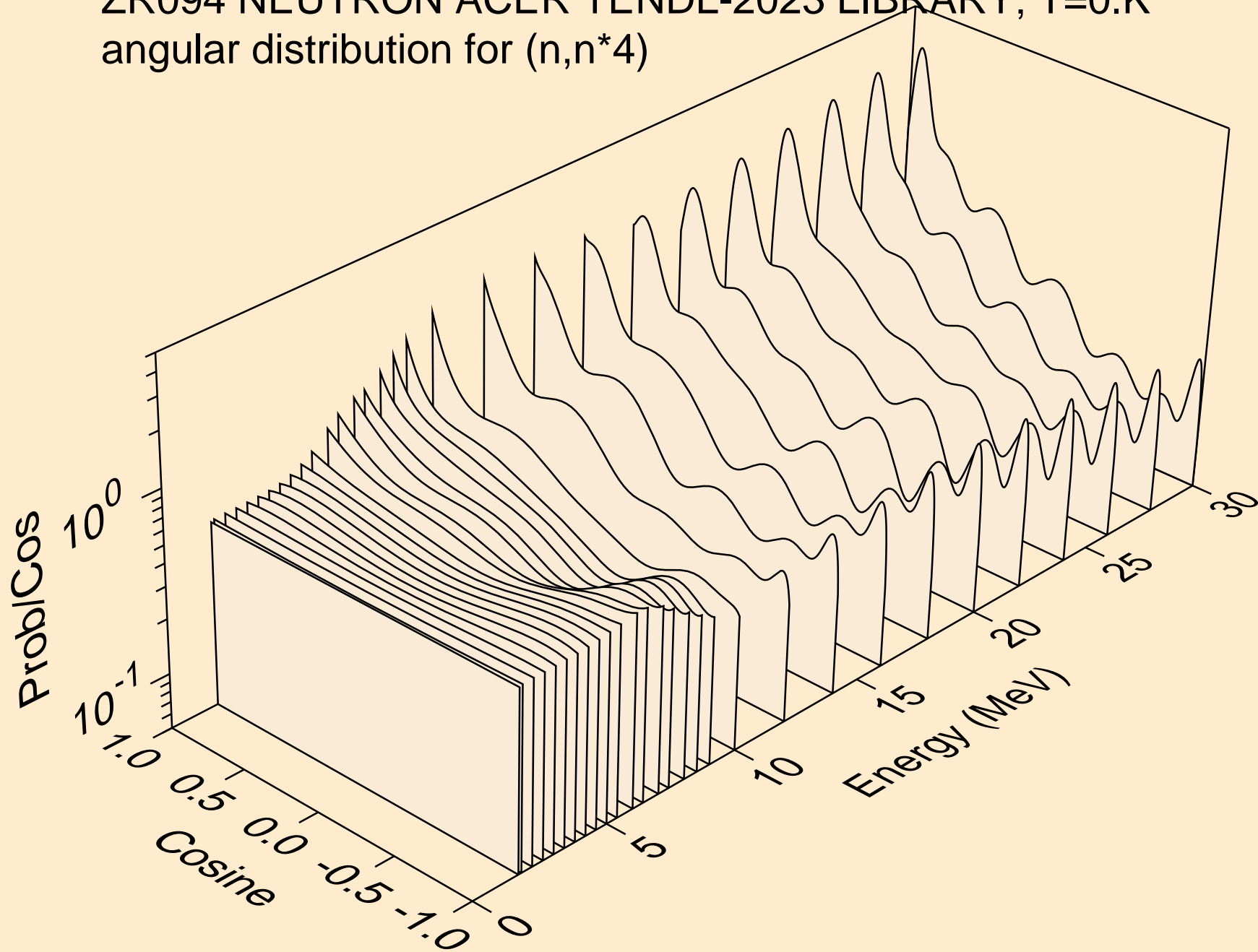
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angular distribution for (n,n\*2)



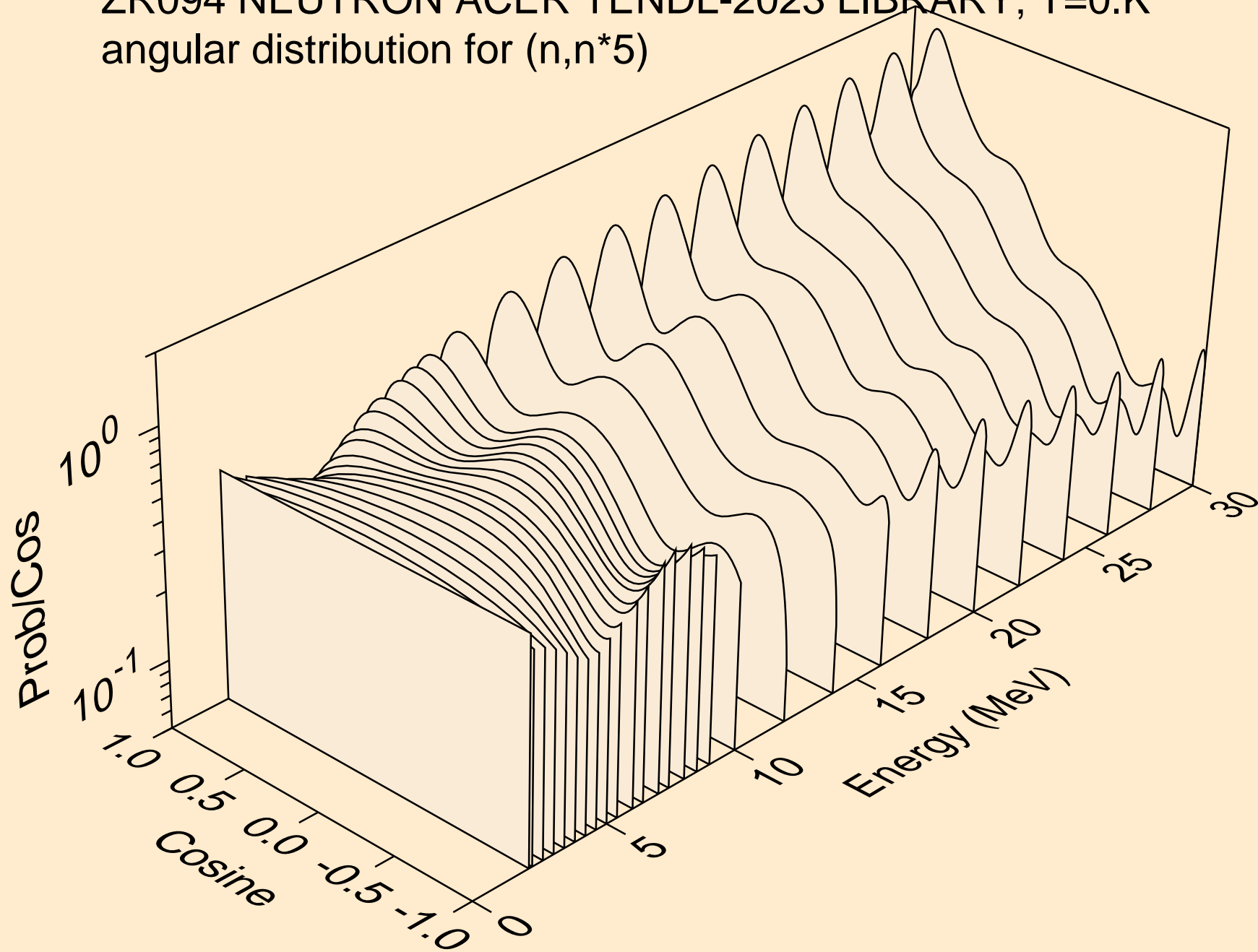
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angular distribution for (n,n\*3)



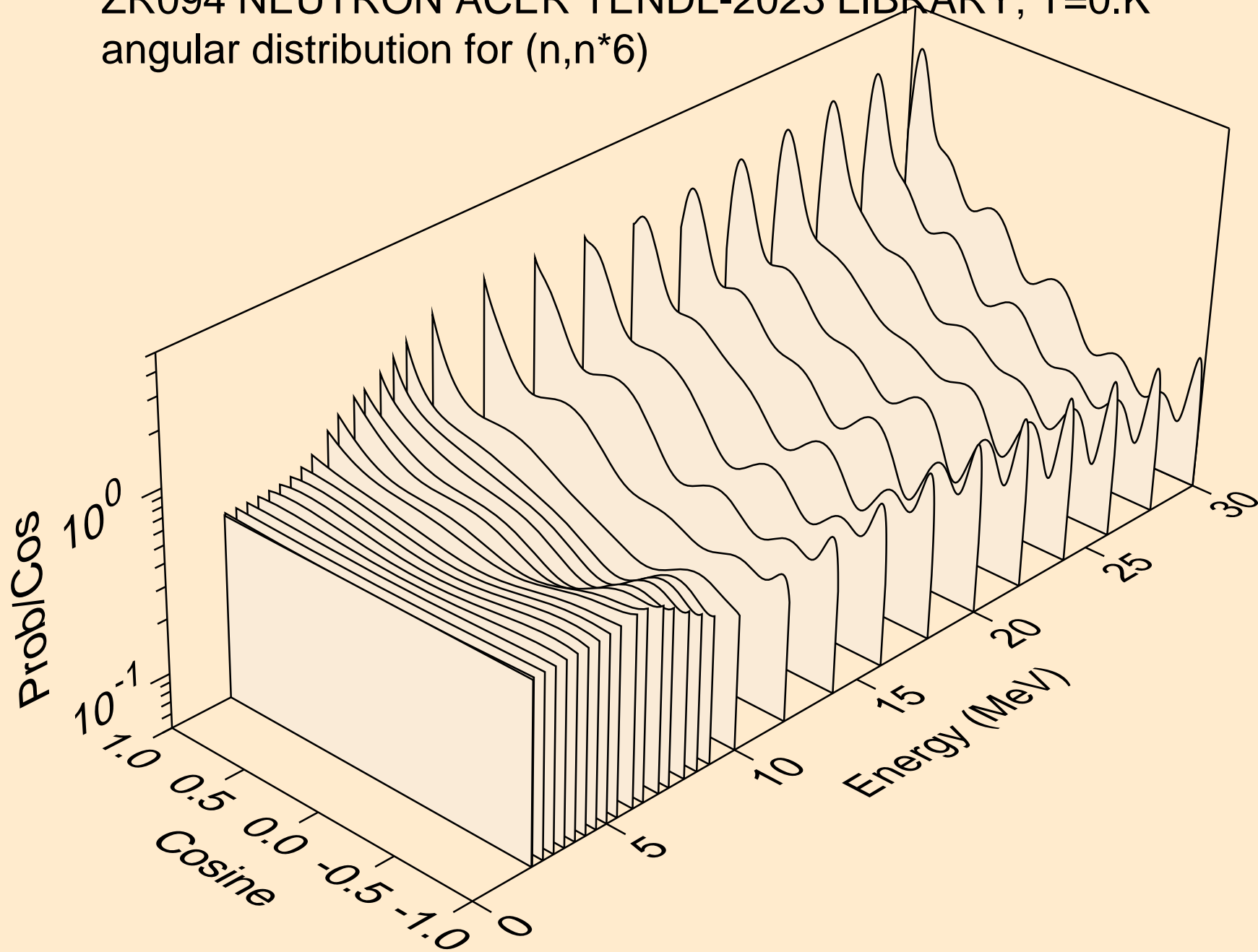
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angular distribution for (n,n\*4)



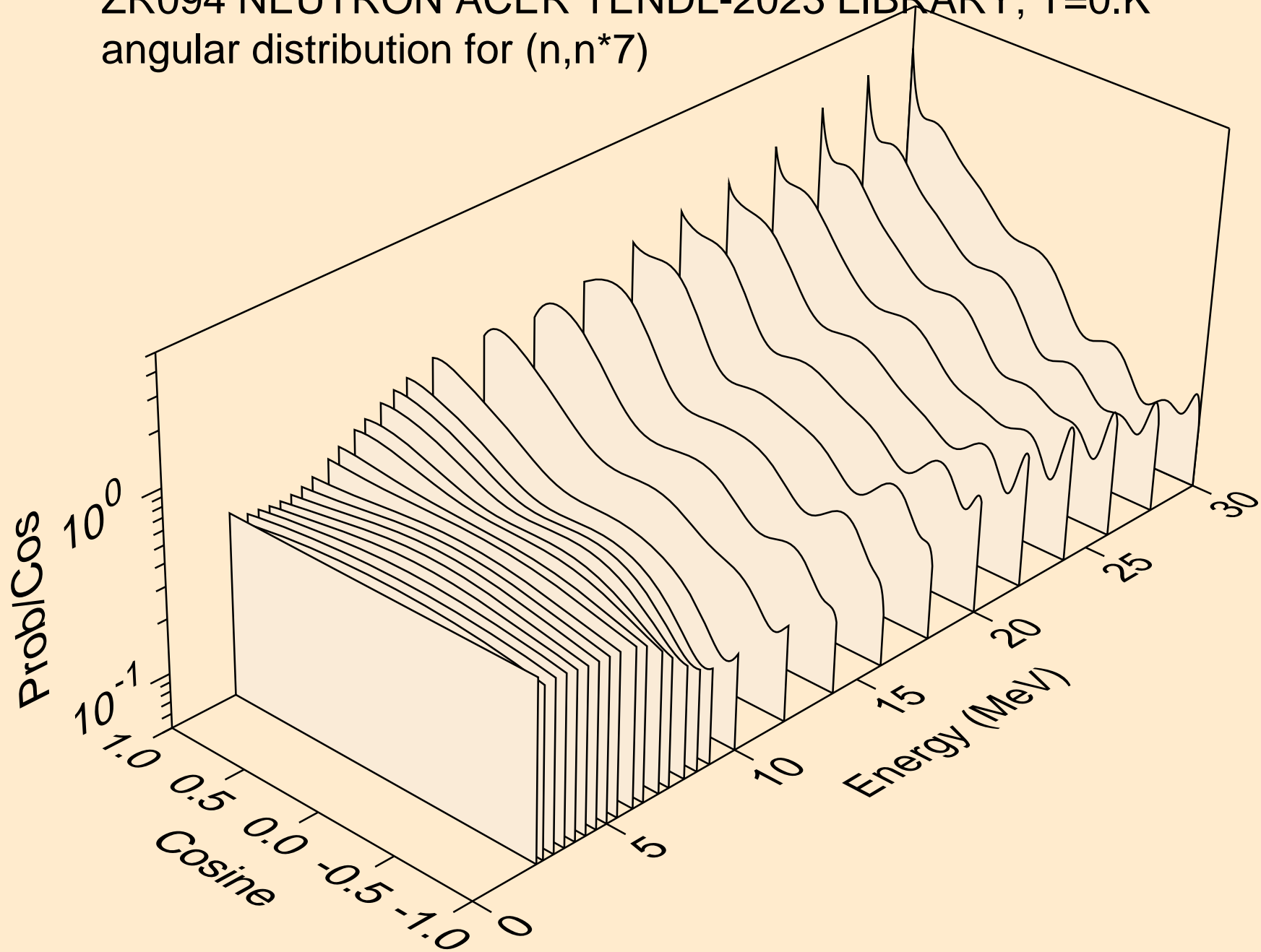
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angular distribution for (n,n\*5)



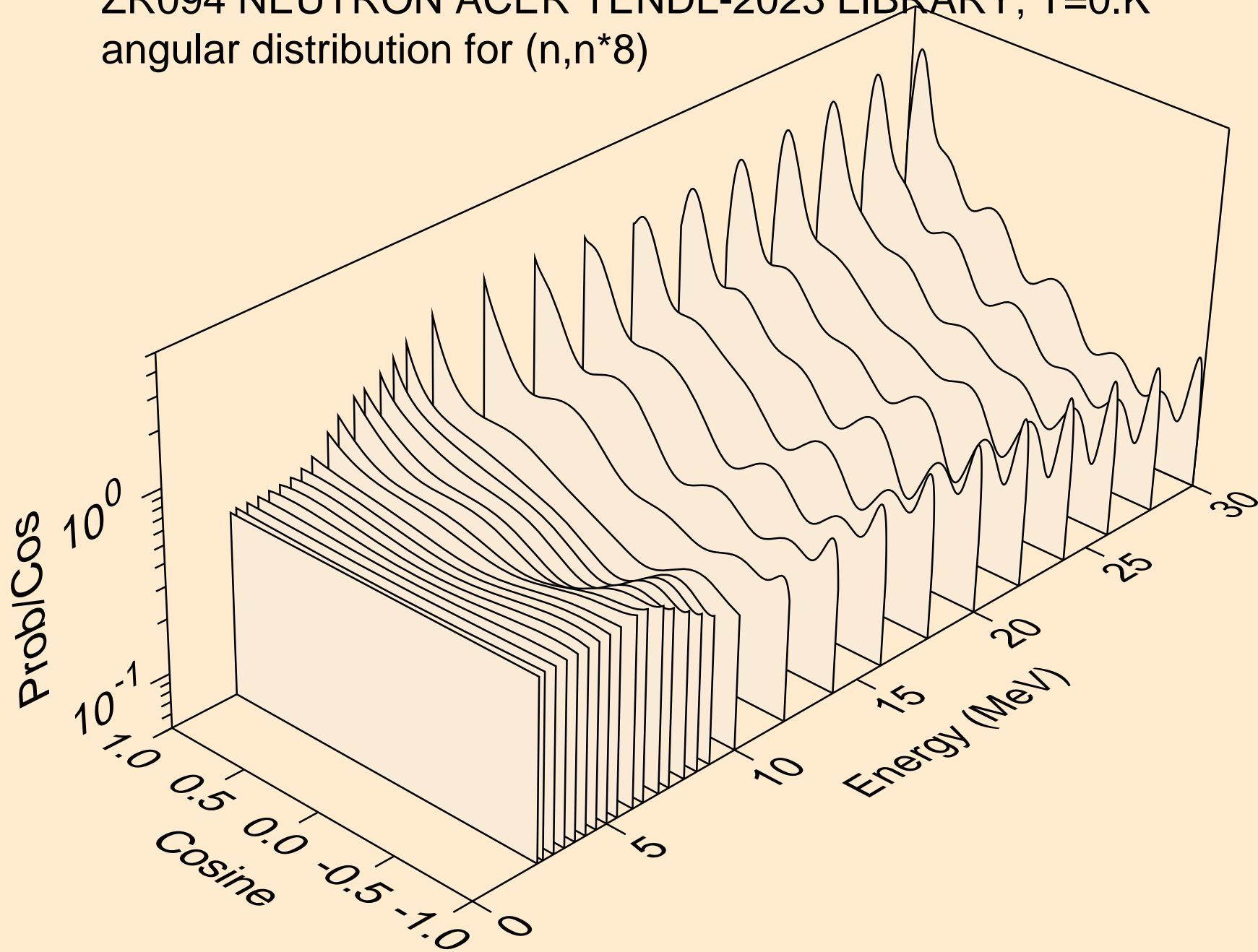
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angular distribution for (n,n\*6)



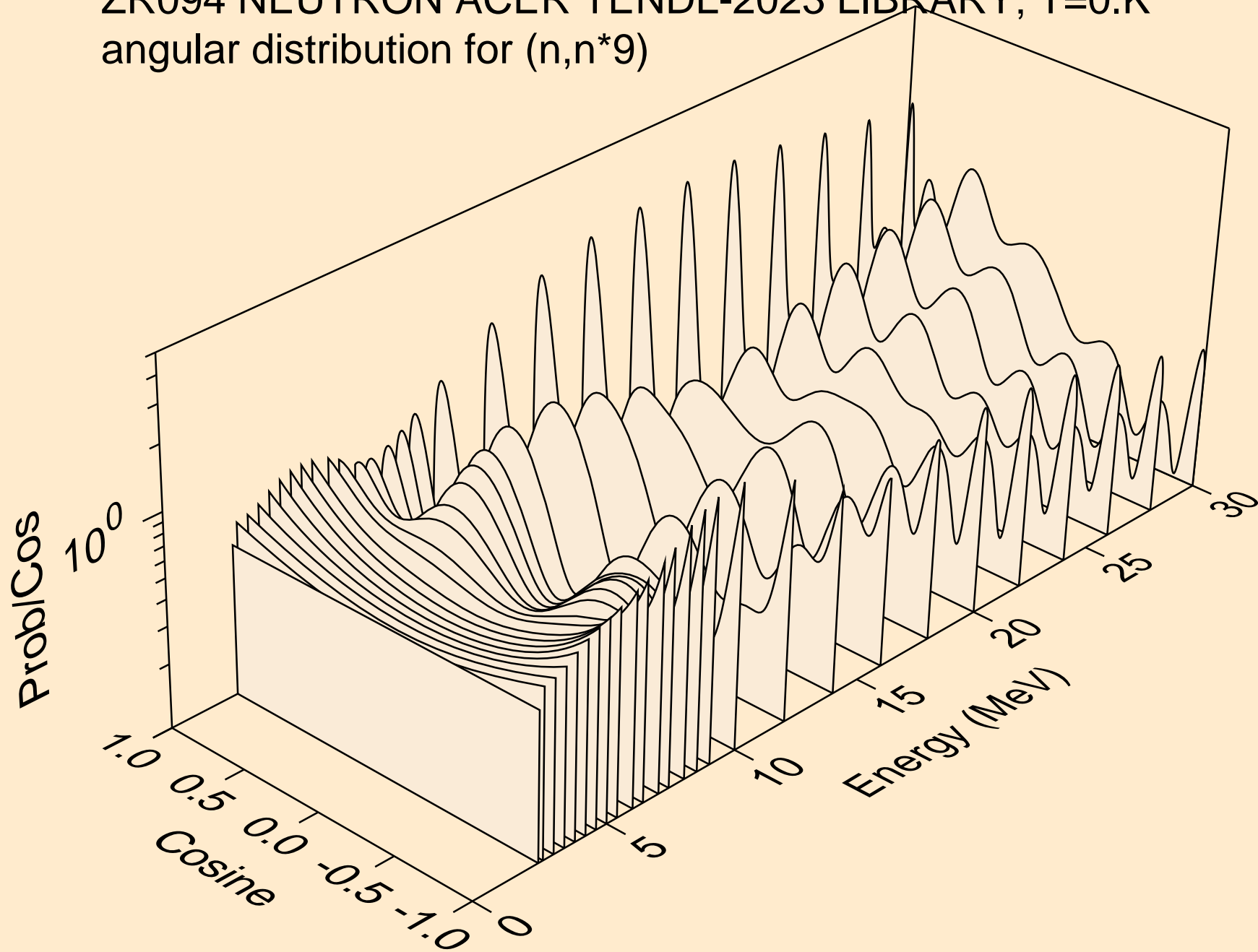
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angular distribution for (n,n\*7)



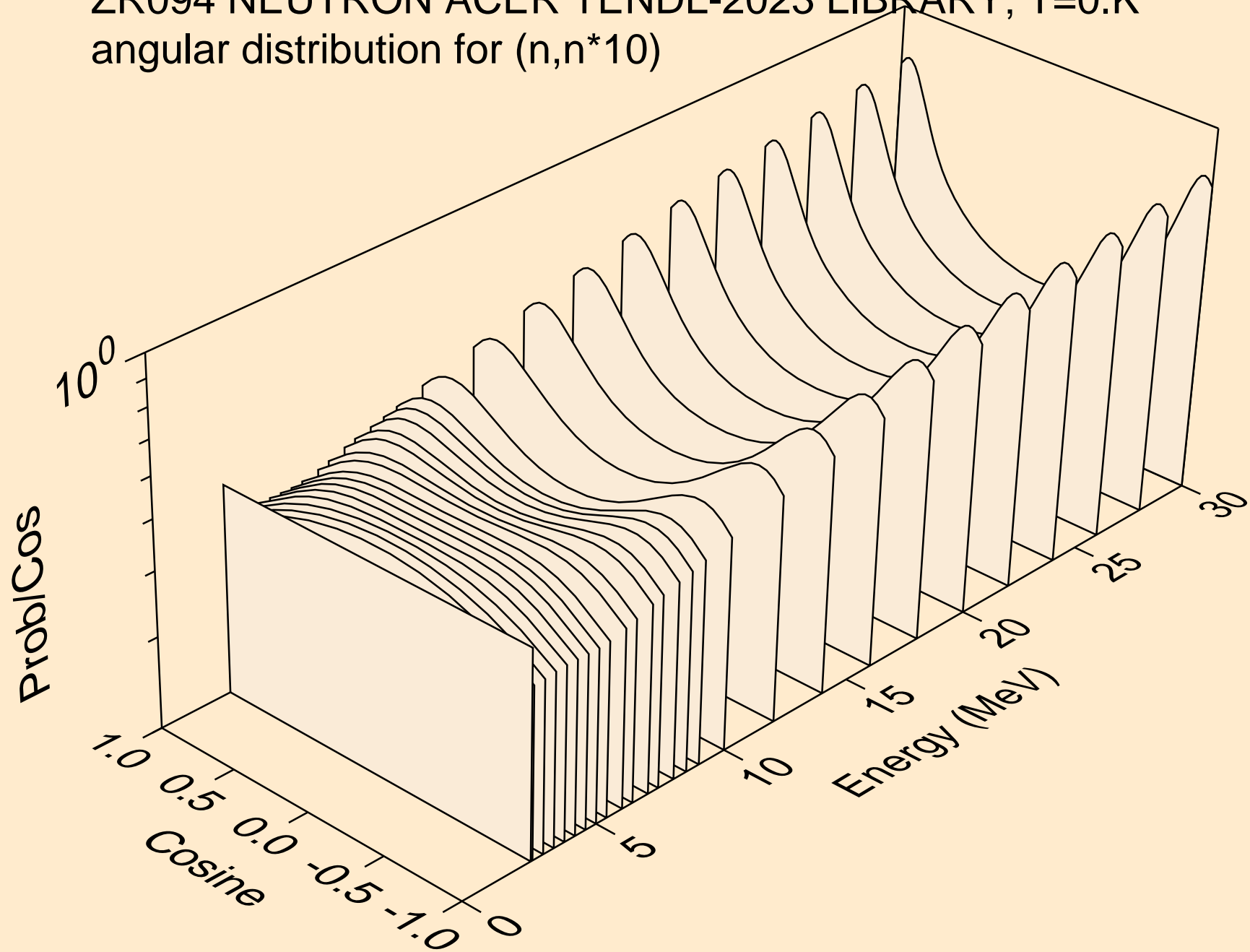
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angular distribution for (n,n\*8)



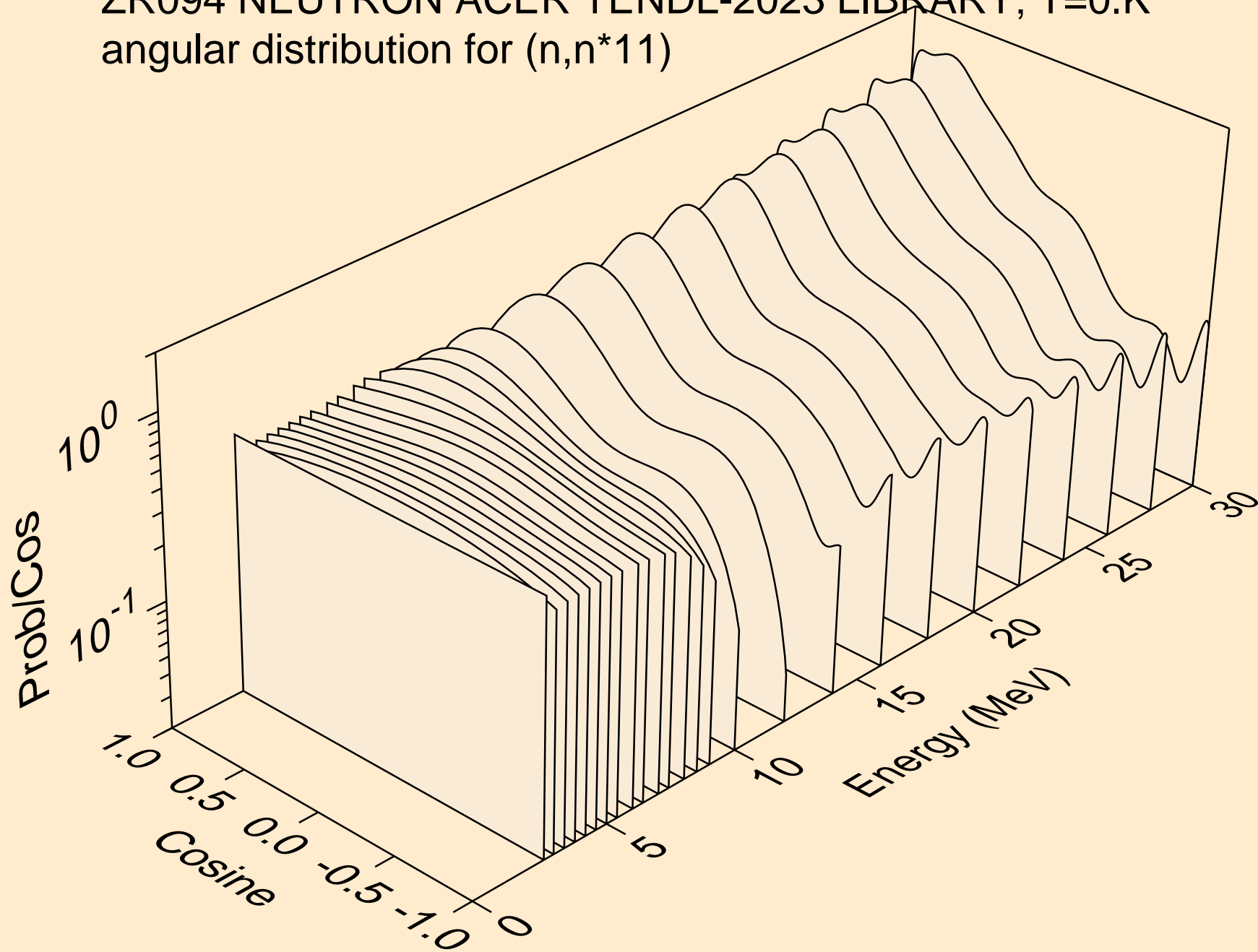
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angular distribution for (n,n\*9)



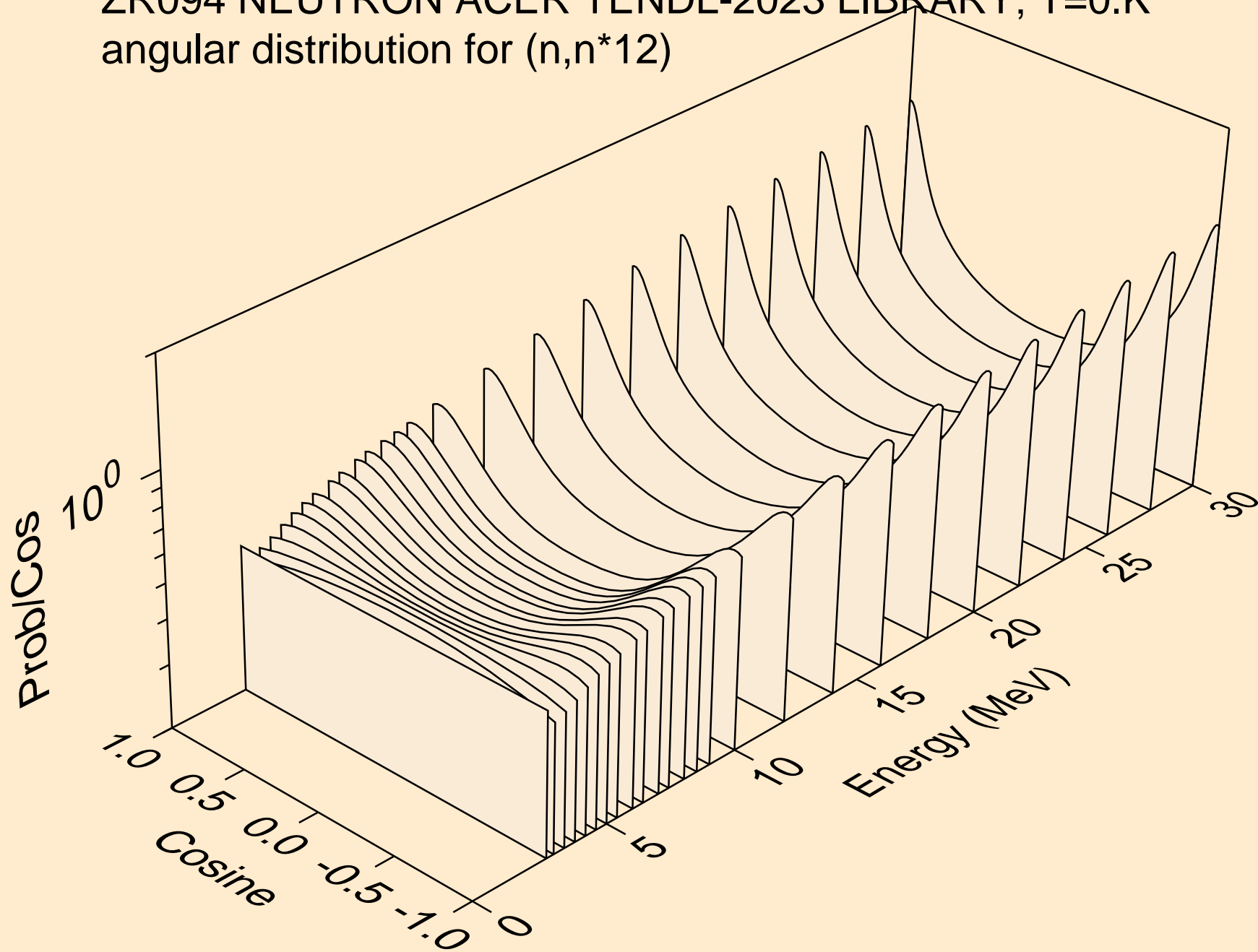
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angular distribution for (n,n\*10)



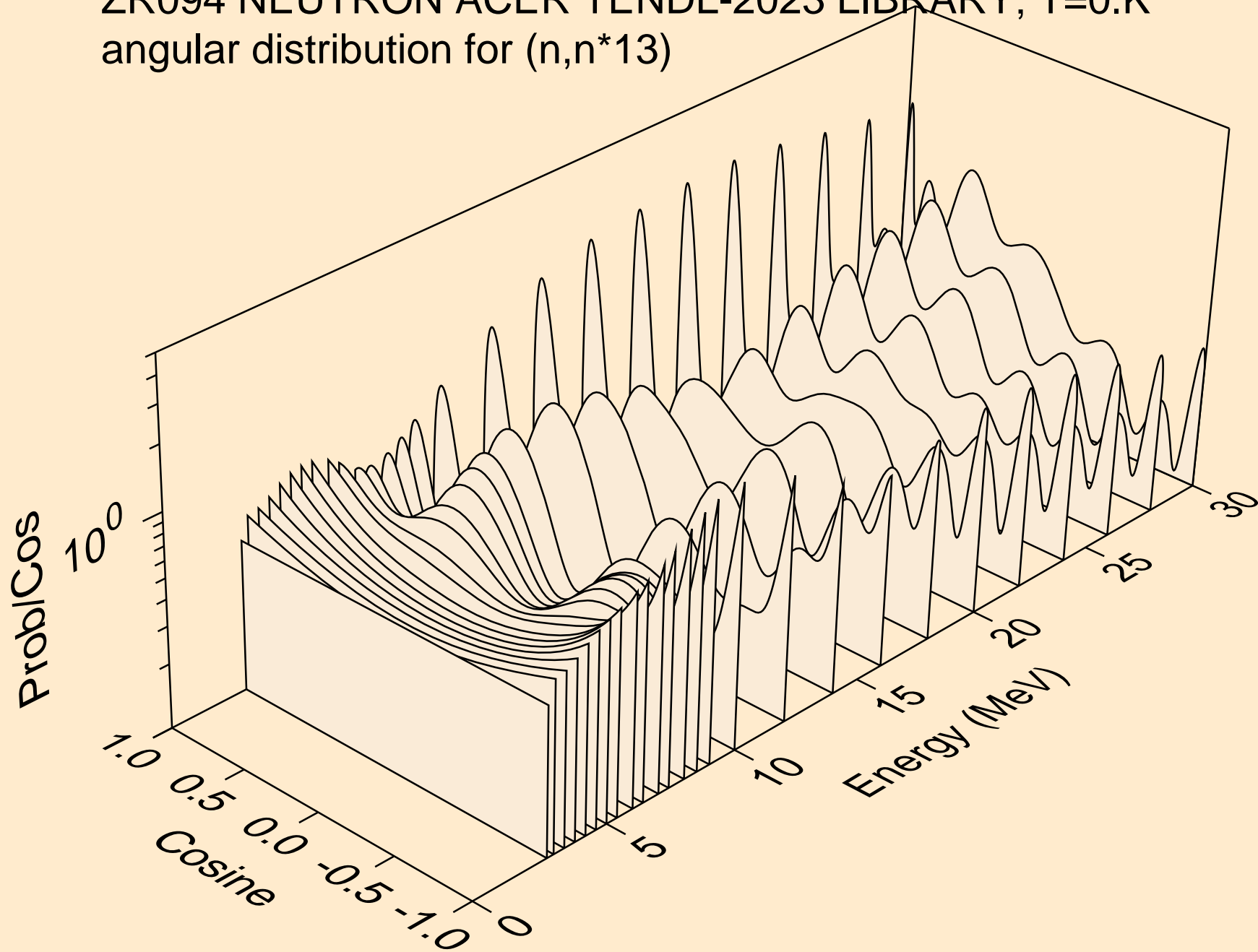
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angular distribution for (n,n\*11)



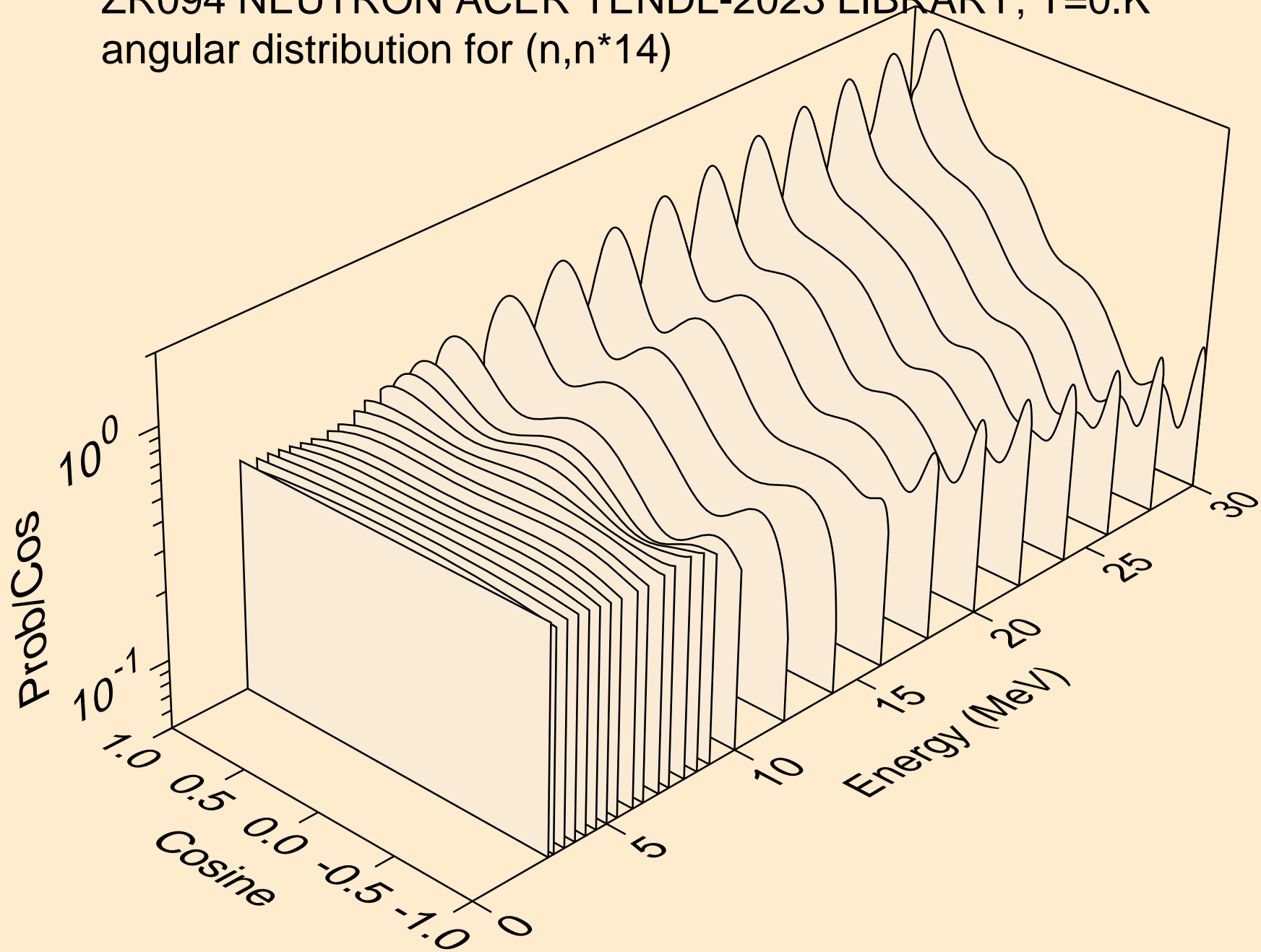
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angular distribution for (n,n\*12)



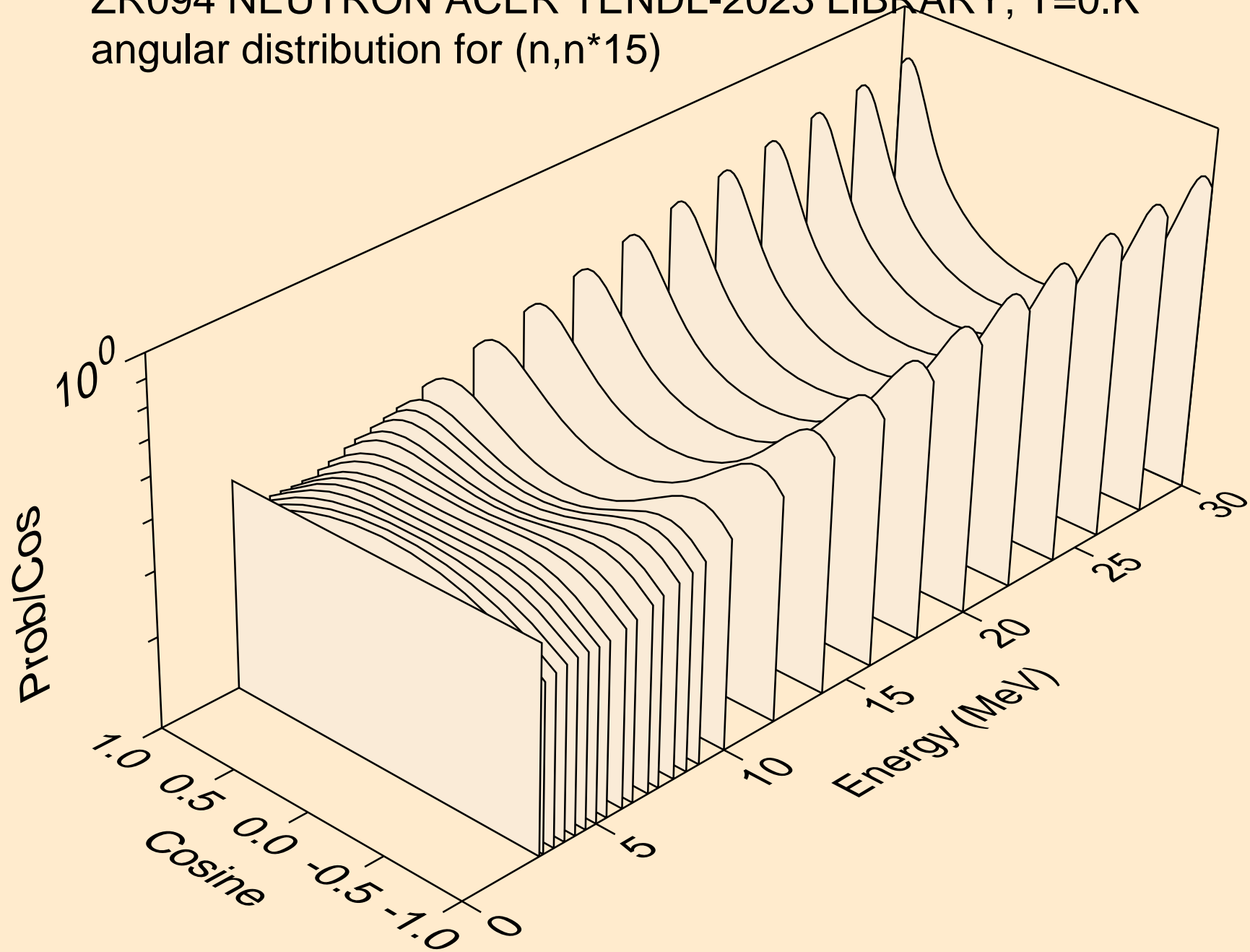
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angular distribution for (n,n\*13)



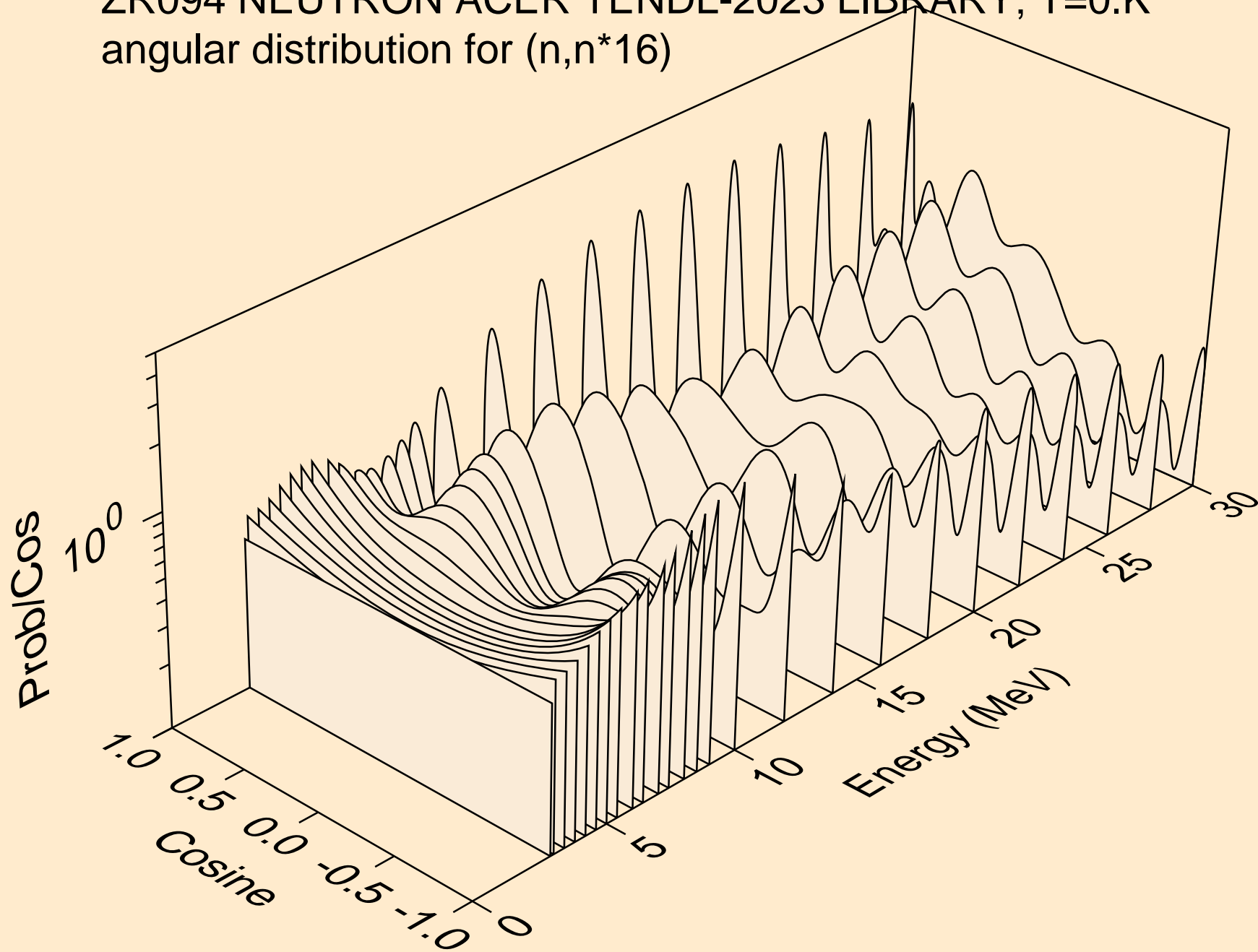
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angular distribution for (n,n\*14)



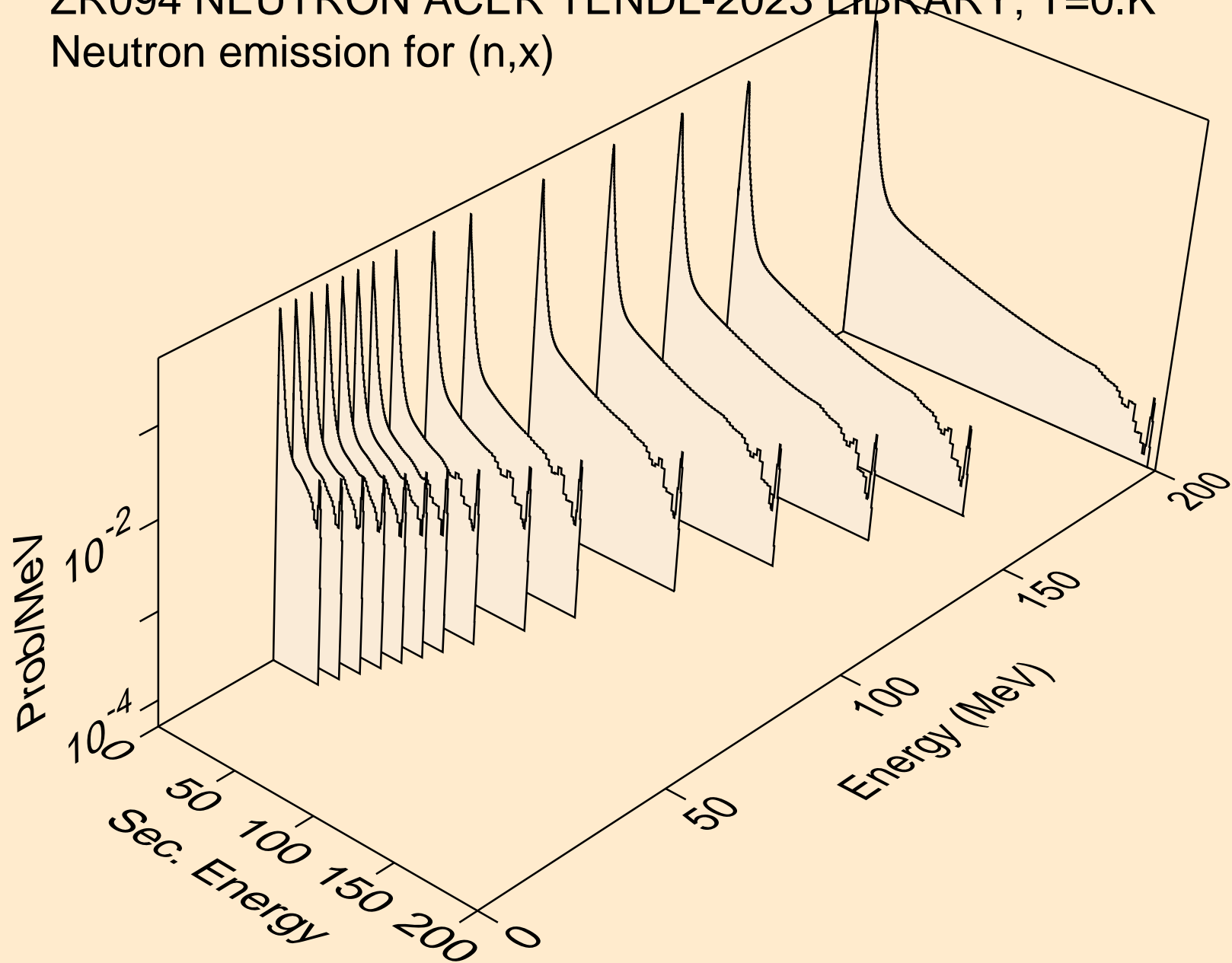
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angular distribution for (n,n\*15)



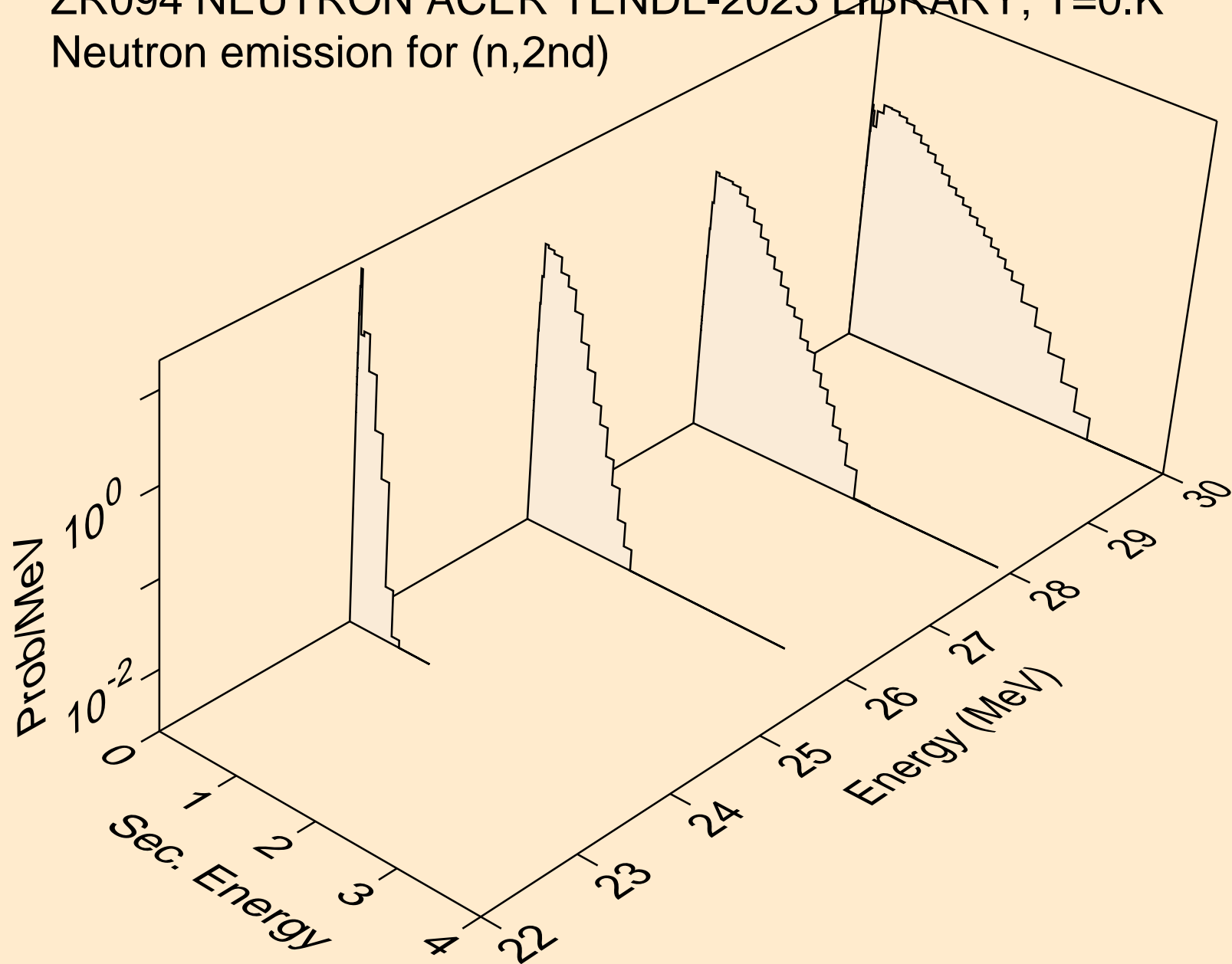
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angular distribution for (n,n\*16)



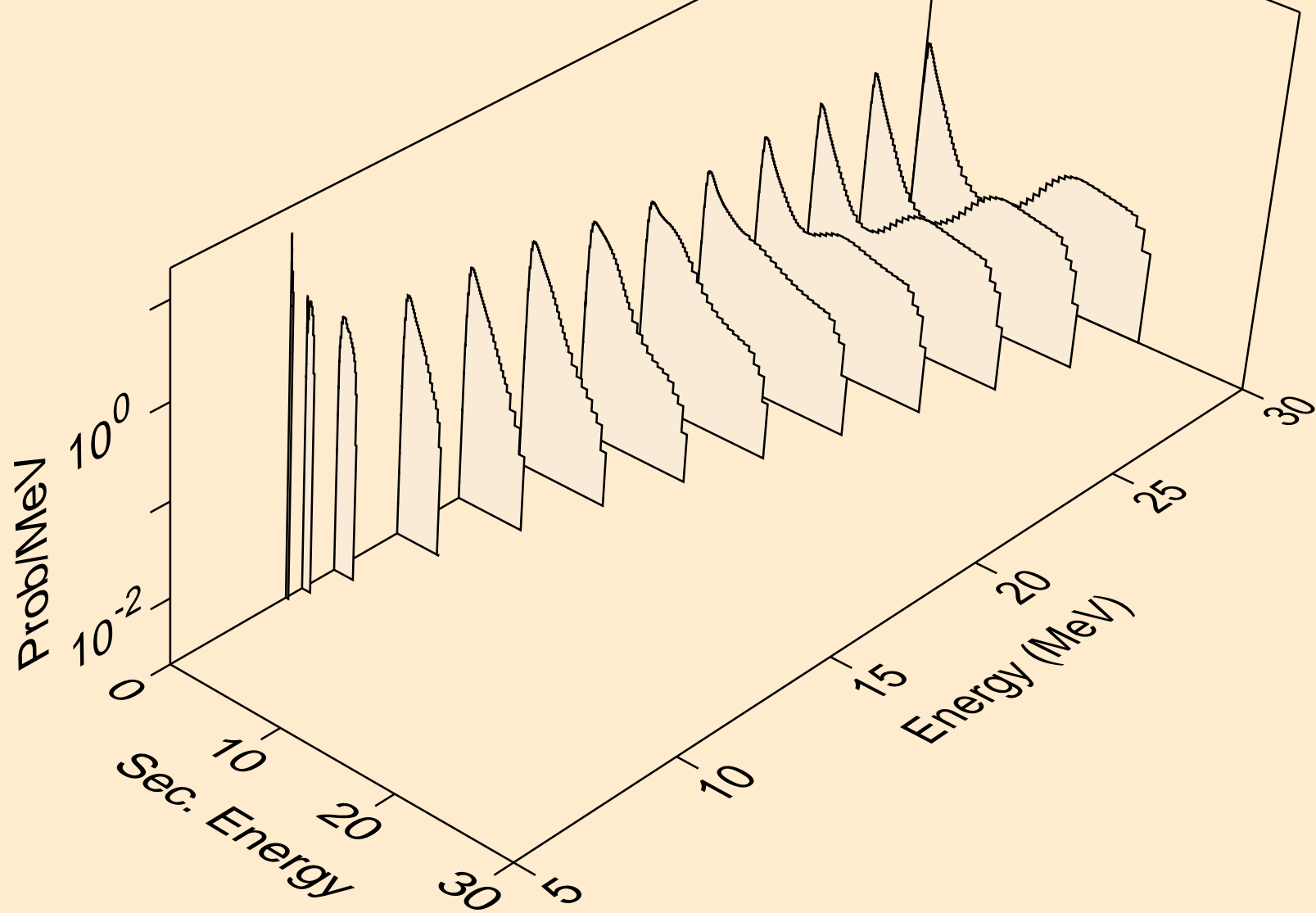
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Neutron emission for (n,x)



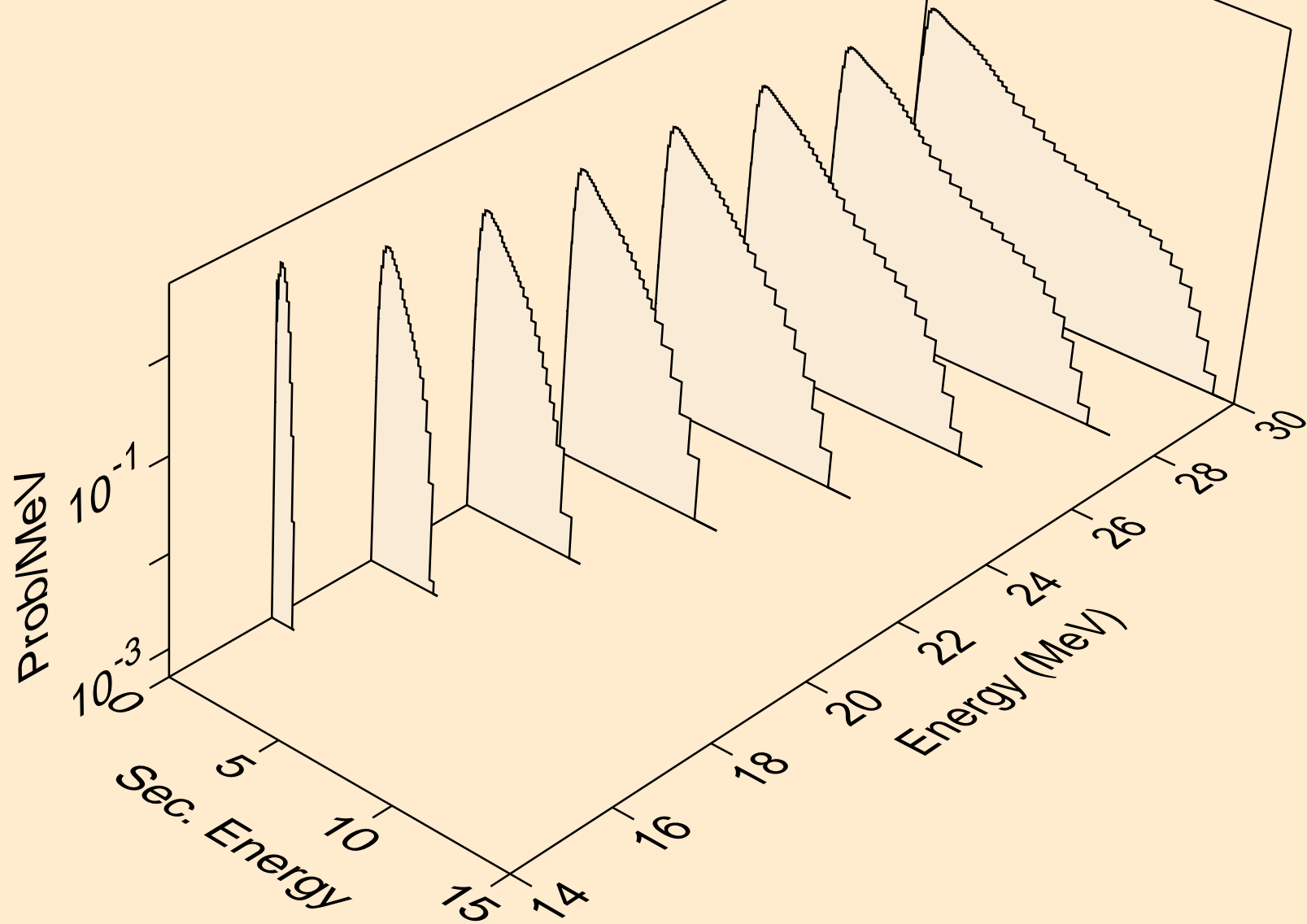
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Neutron emission for (n,2nd)



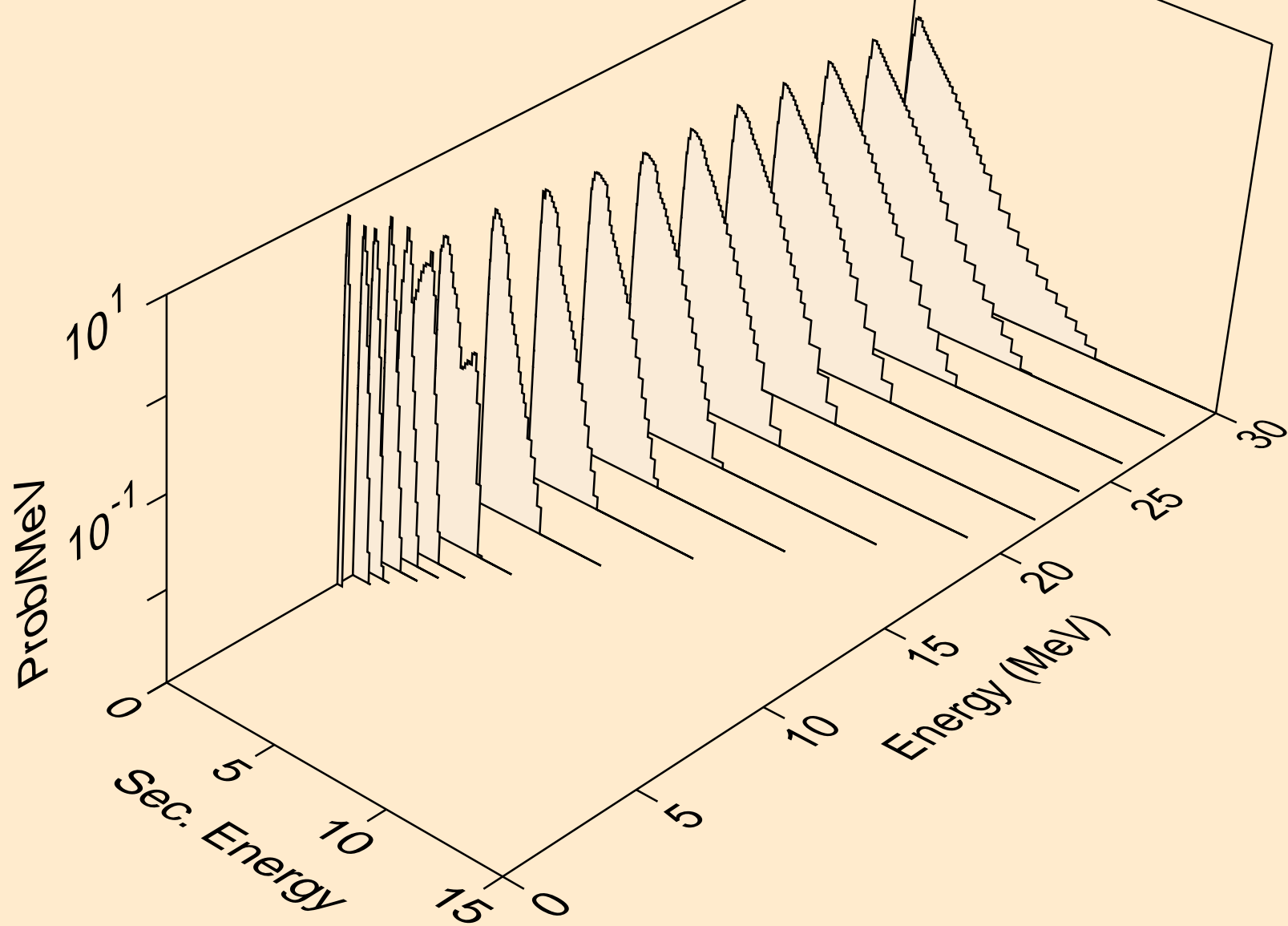
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Neutron emission for (n,2n)



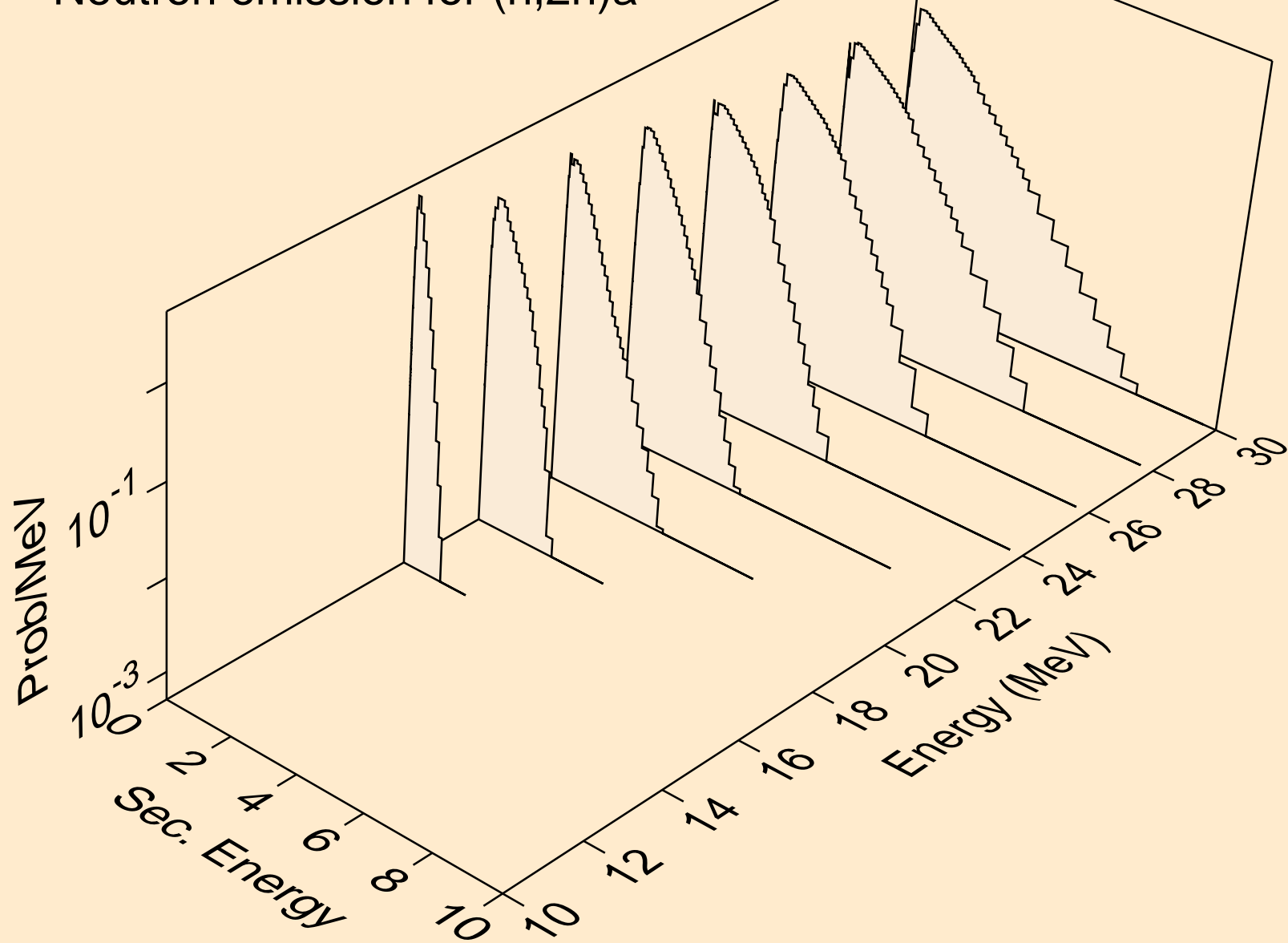
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Neutron emission for (n,3n)



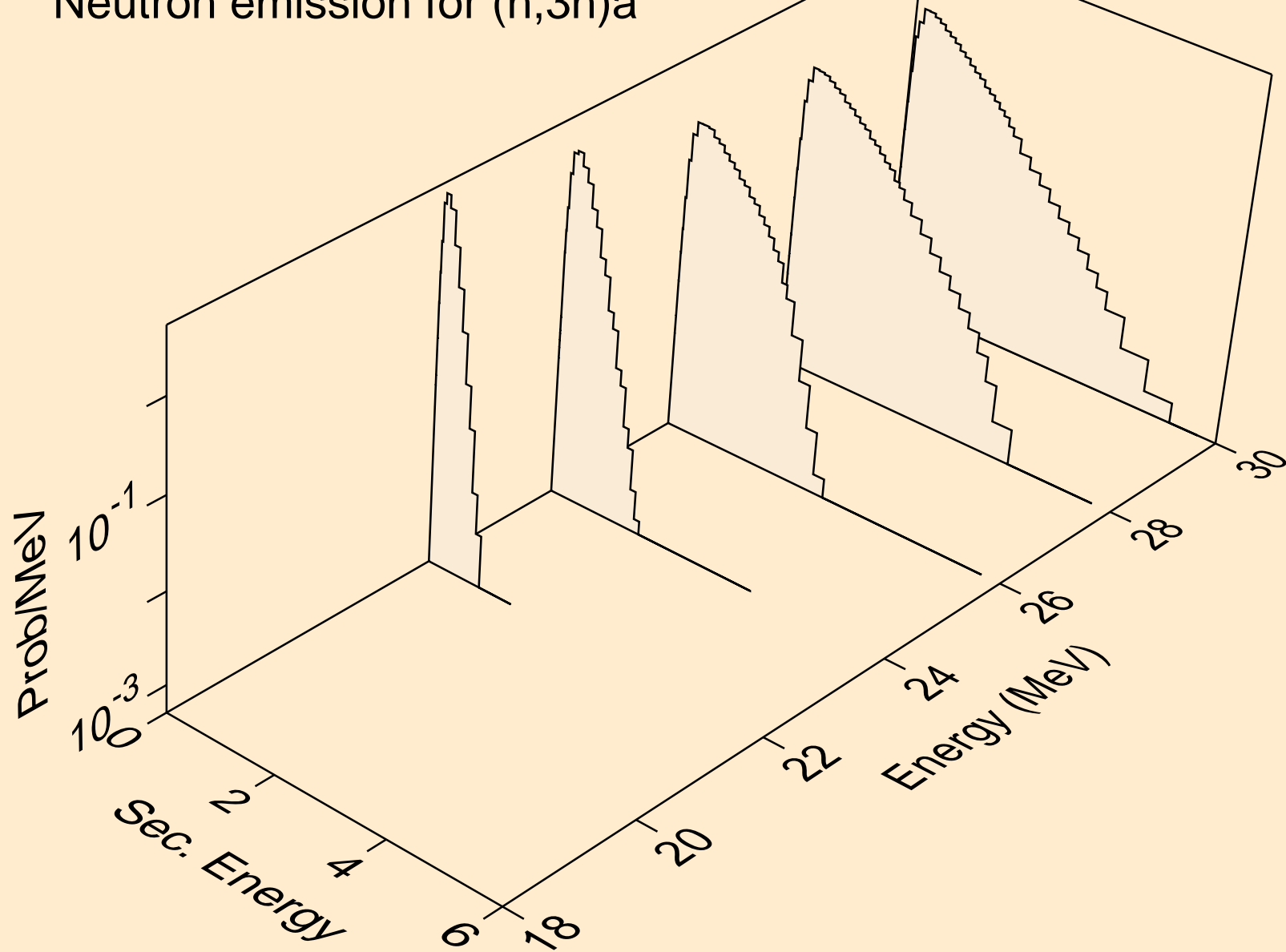
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Neutron emission for (n,n\*)a



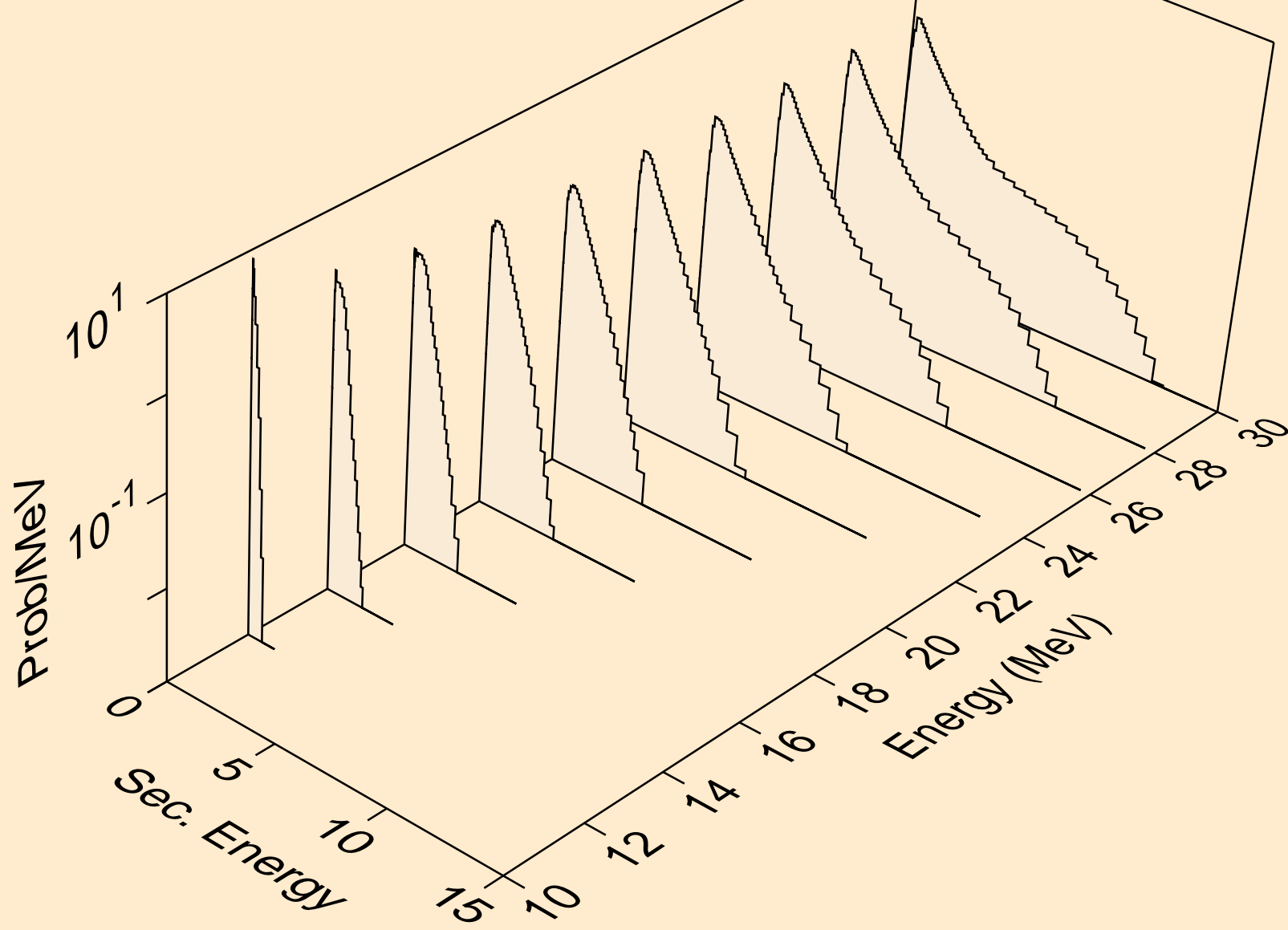
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Neutron emission for (n,2n)<sub>a</sub>



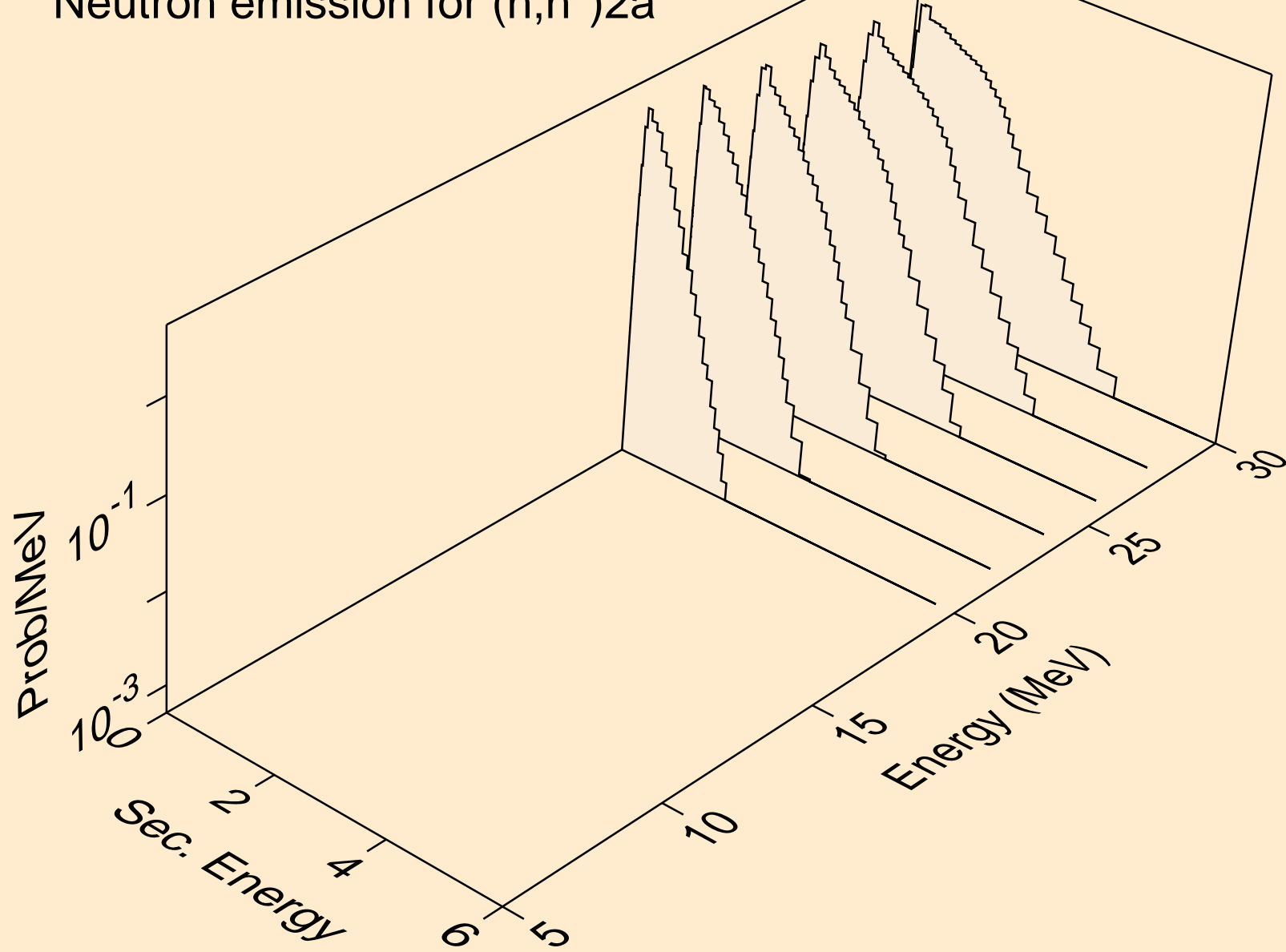
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Neutron emission for (n,3n)a



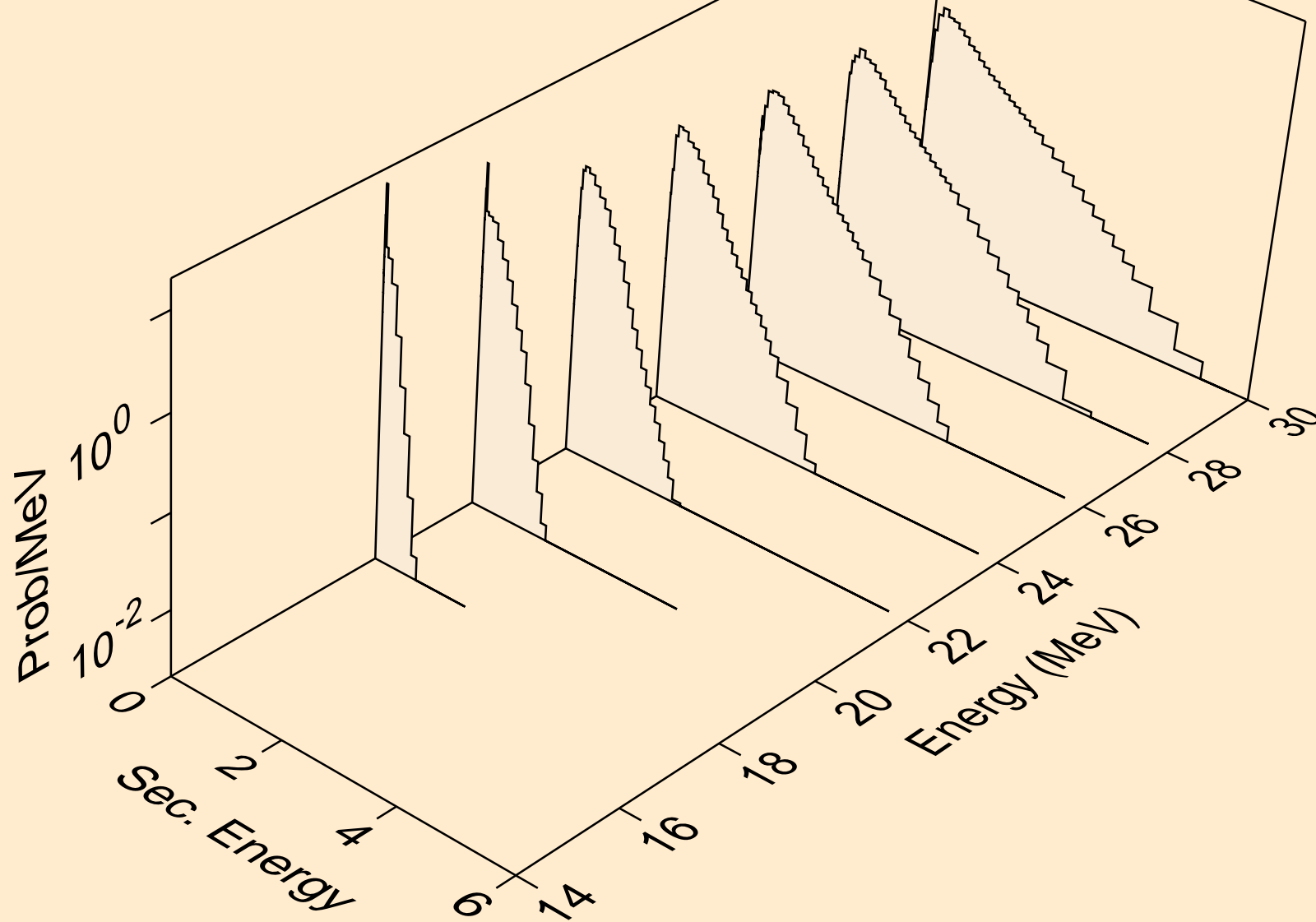
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Neutron emission for (n,n\*)p



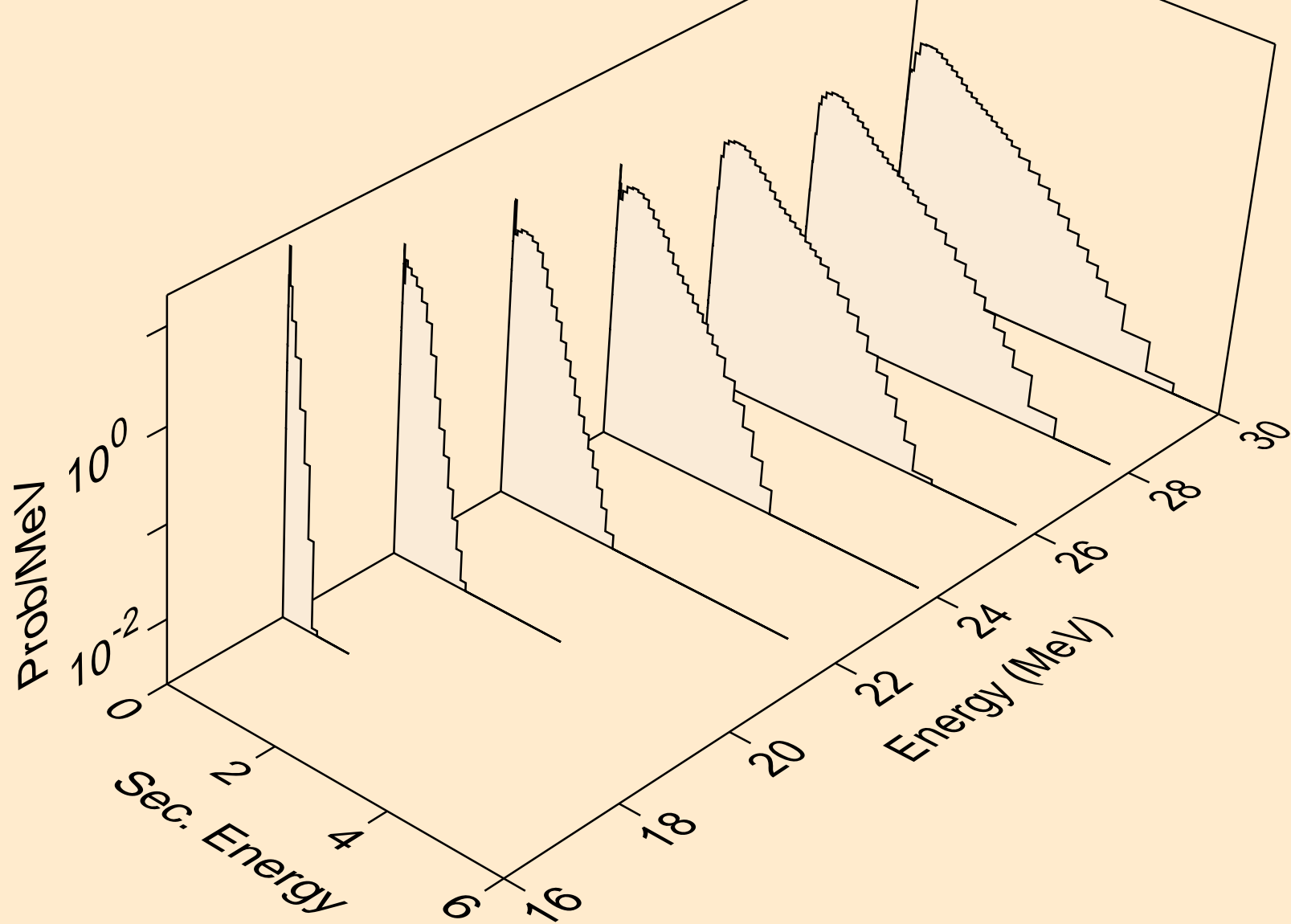
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Neutron emission for (n,n\*)2a



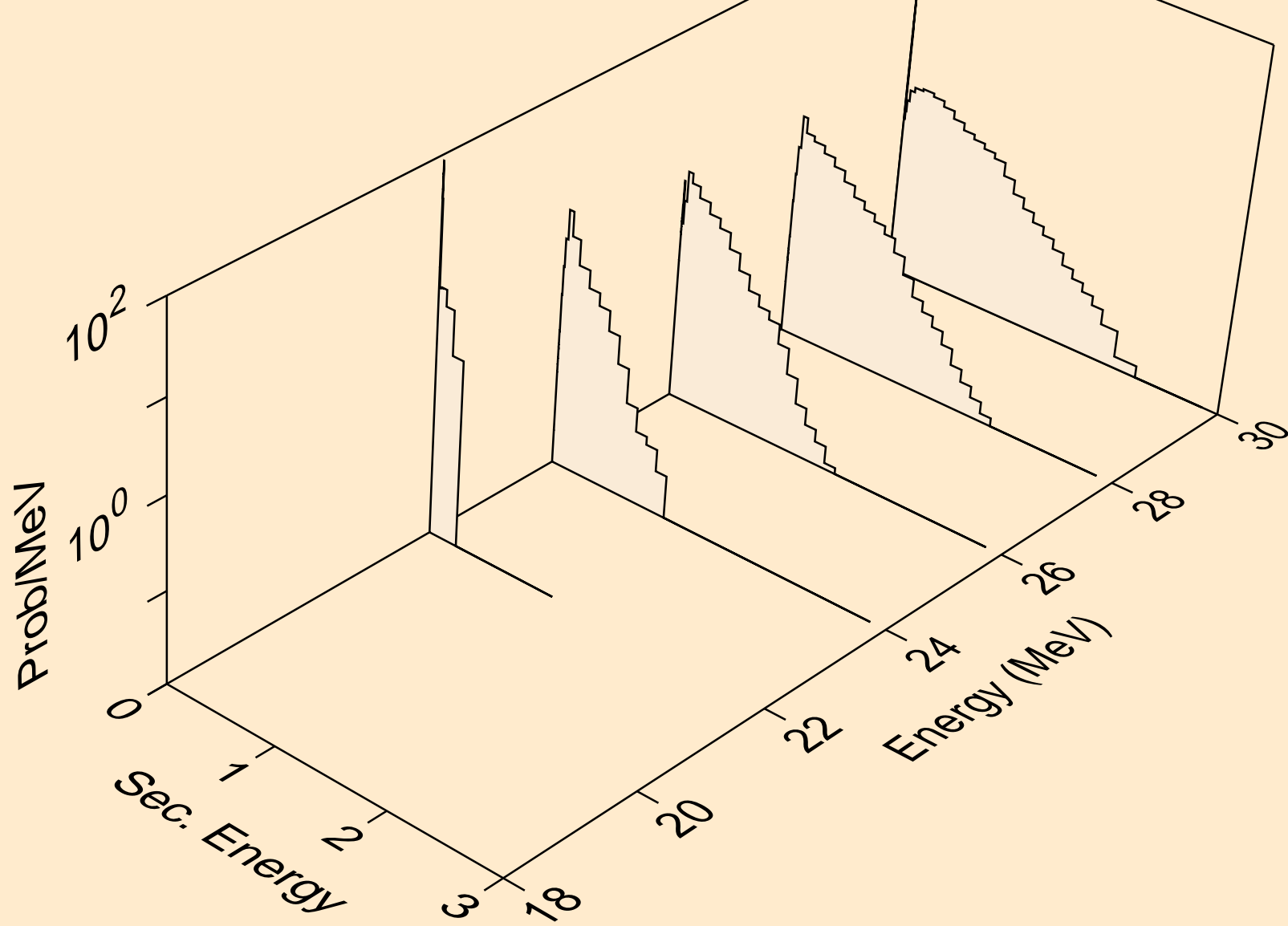
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Neutron emission for (n,n\*)d



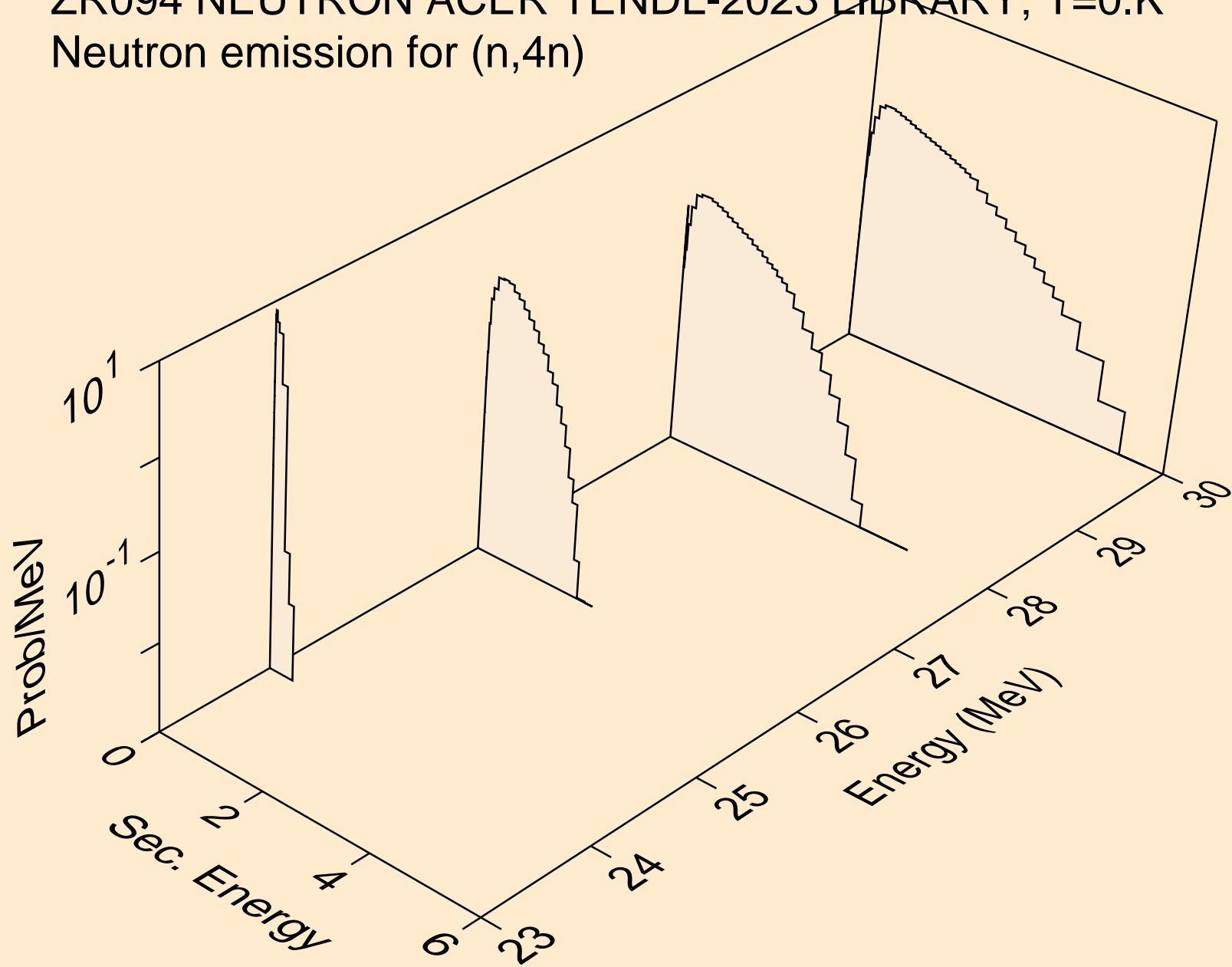
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Neutron emission for (n,n\*)t



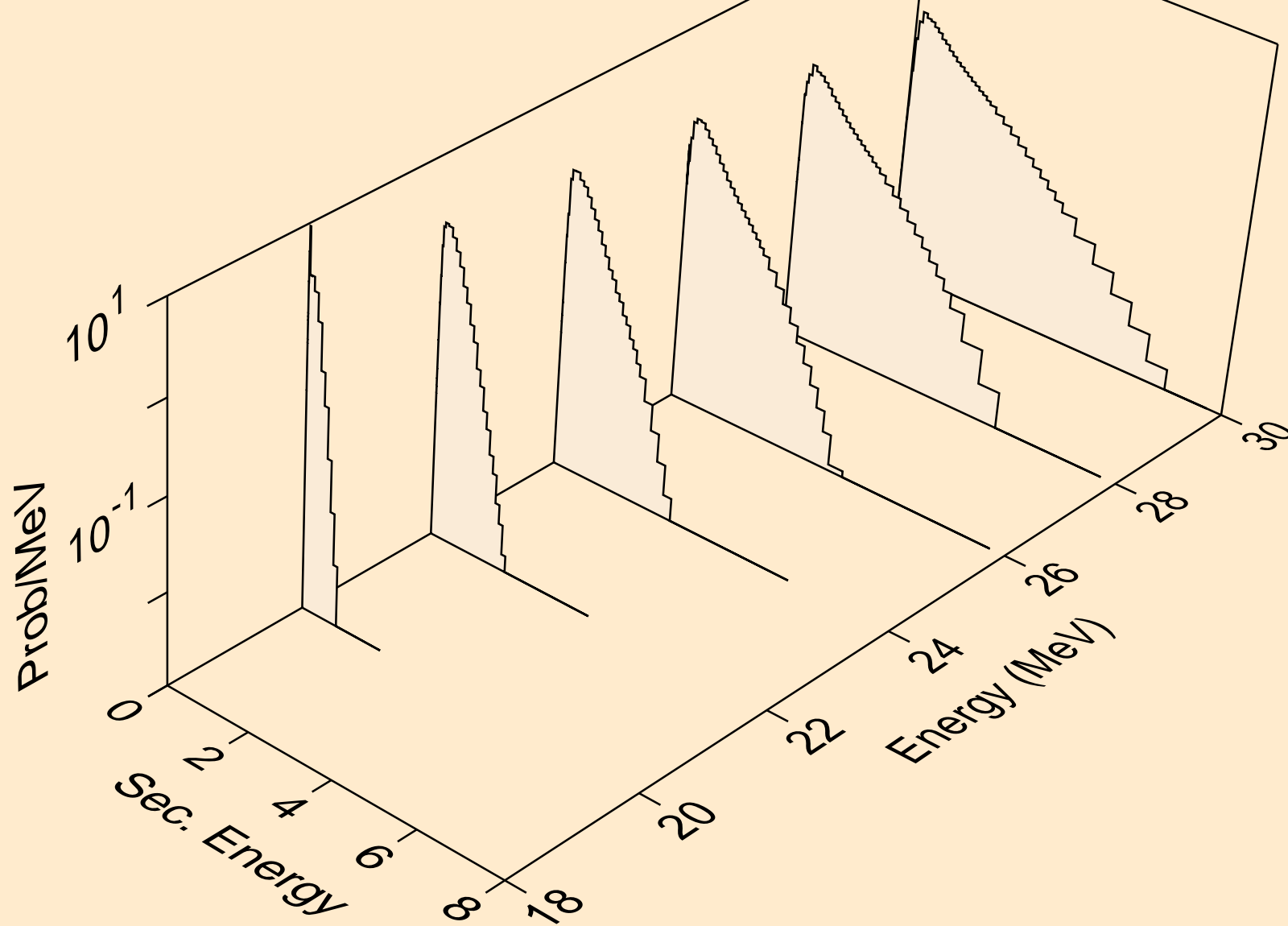
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Neutron emission for (n,n\*)he3



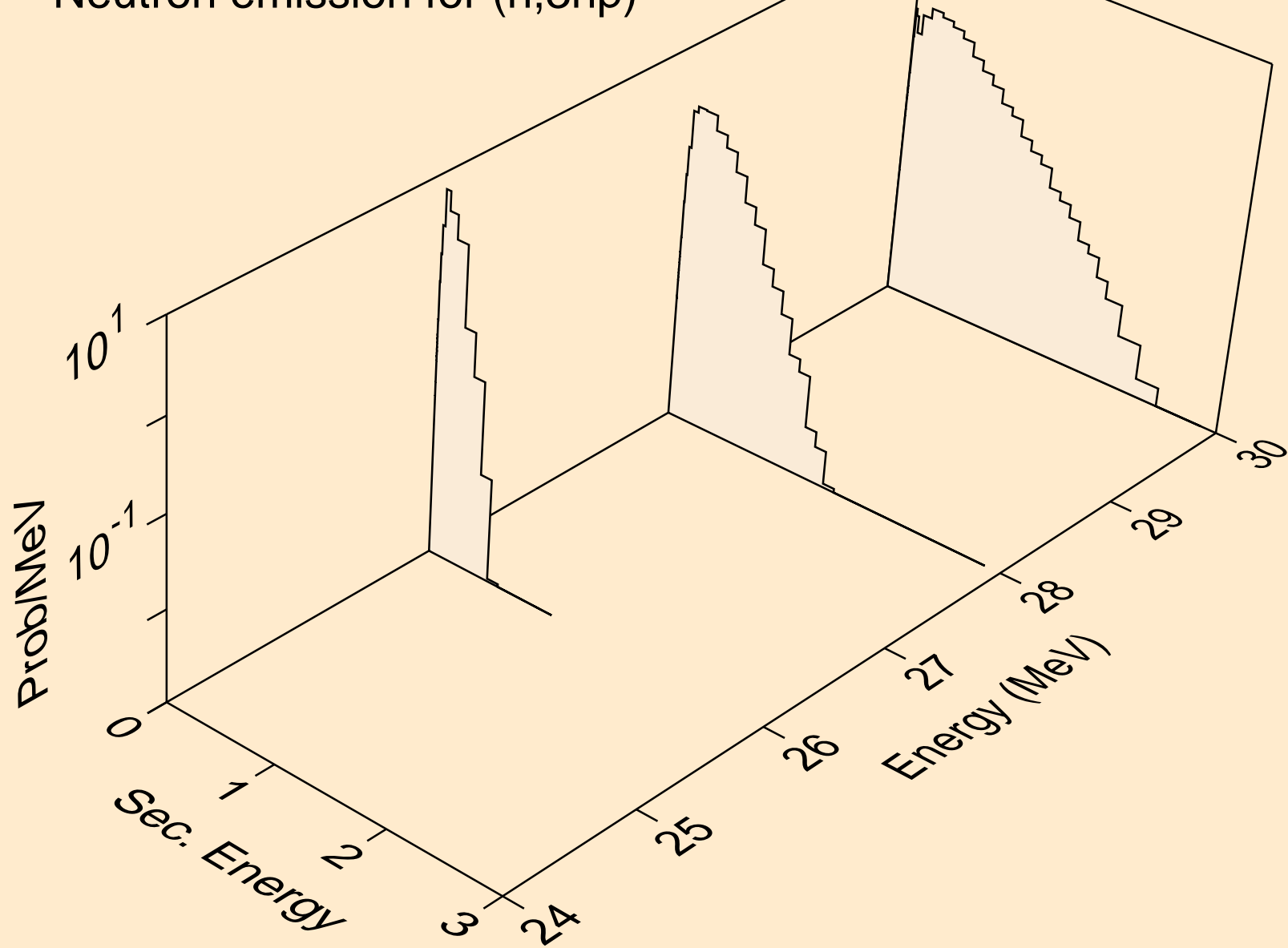
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Neutron emission for (n,4n)



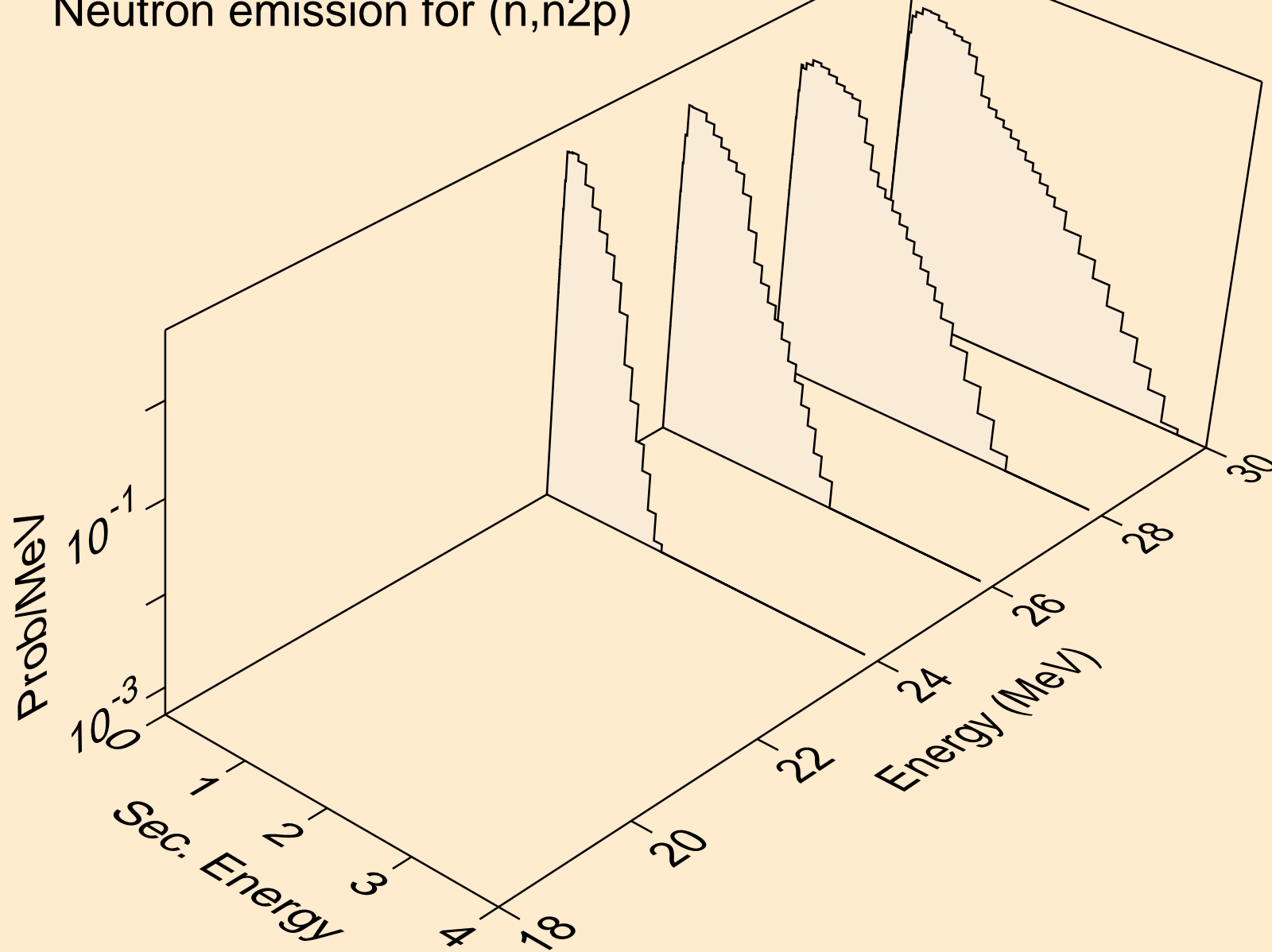
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Neutron emission for (n,2np)



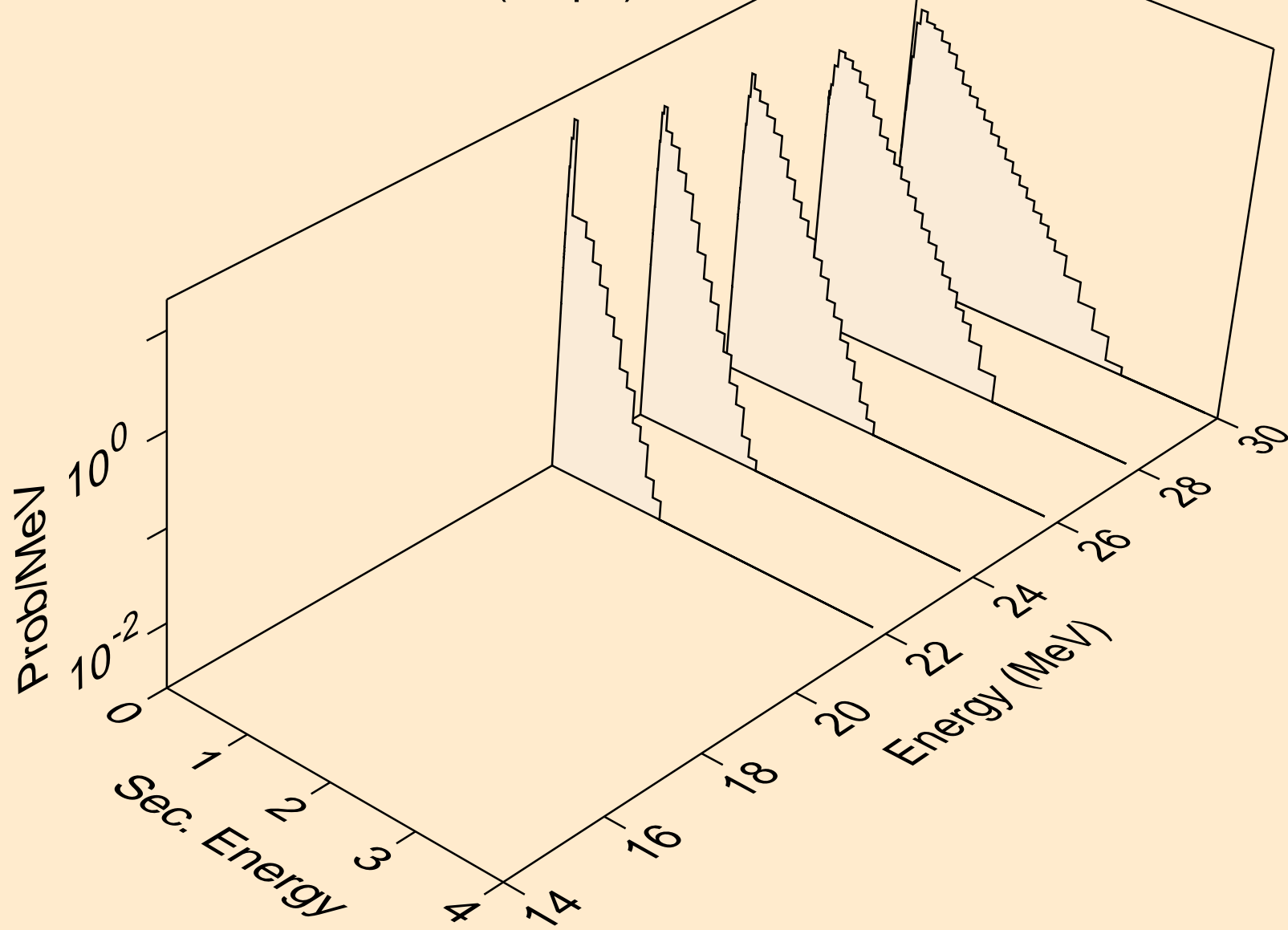
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Neutron emission for (n,3np)



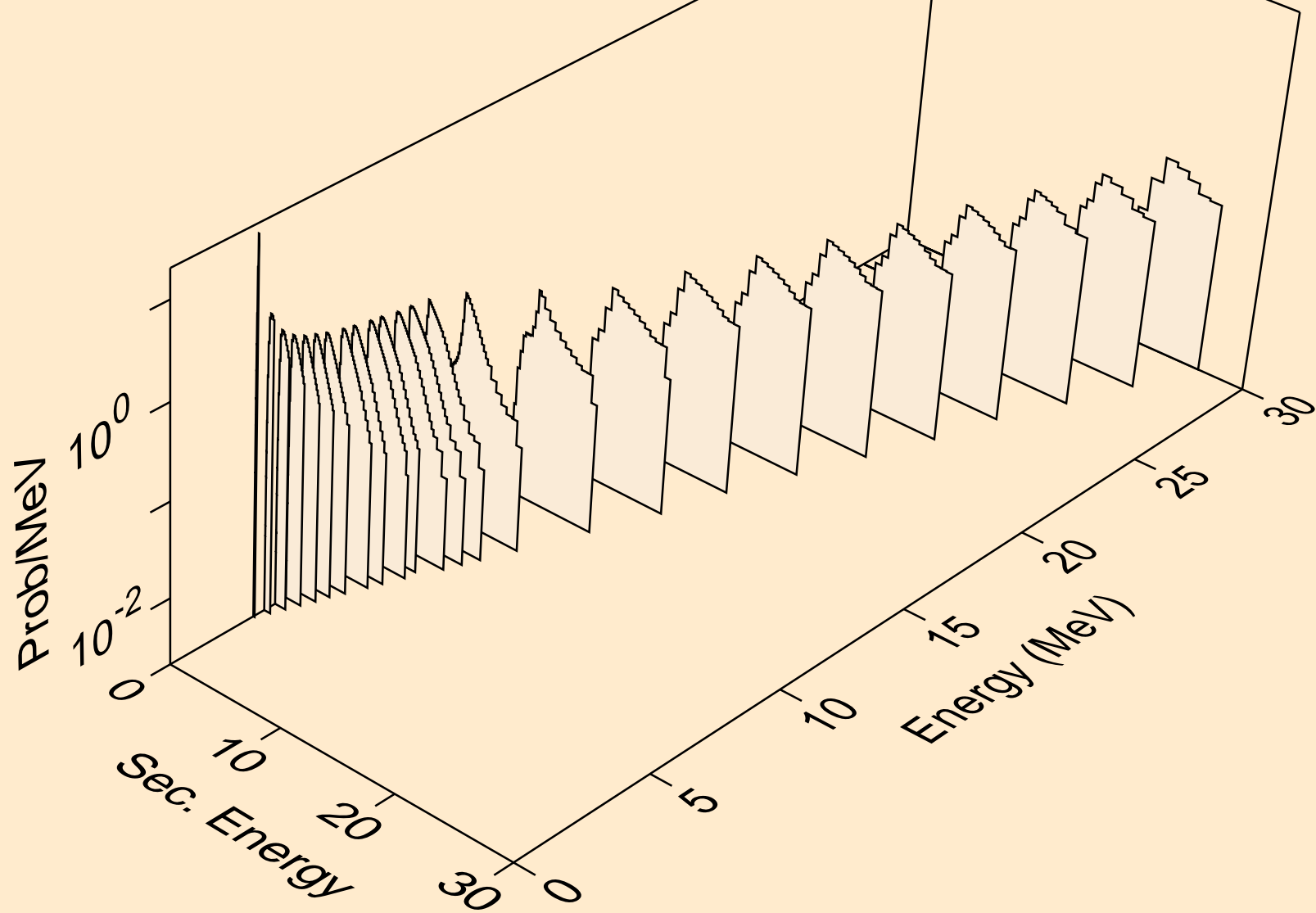
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Neutron emission for (n,n2p)



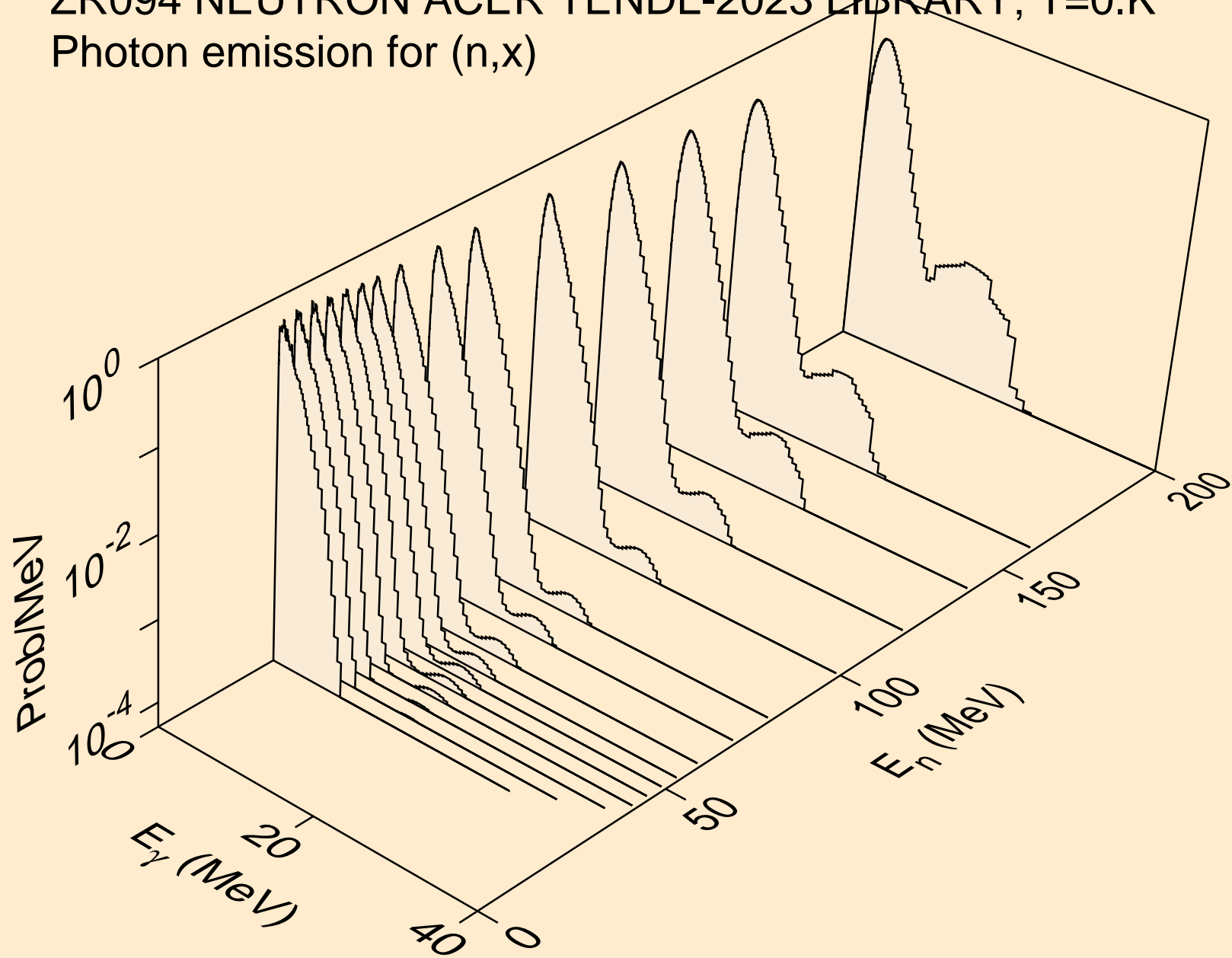
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Neutron emission for (n,npa)



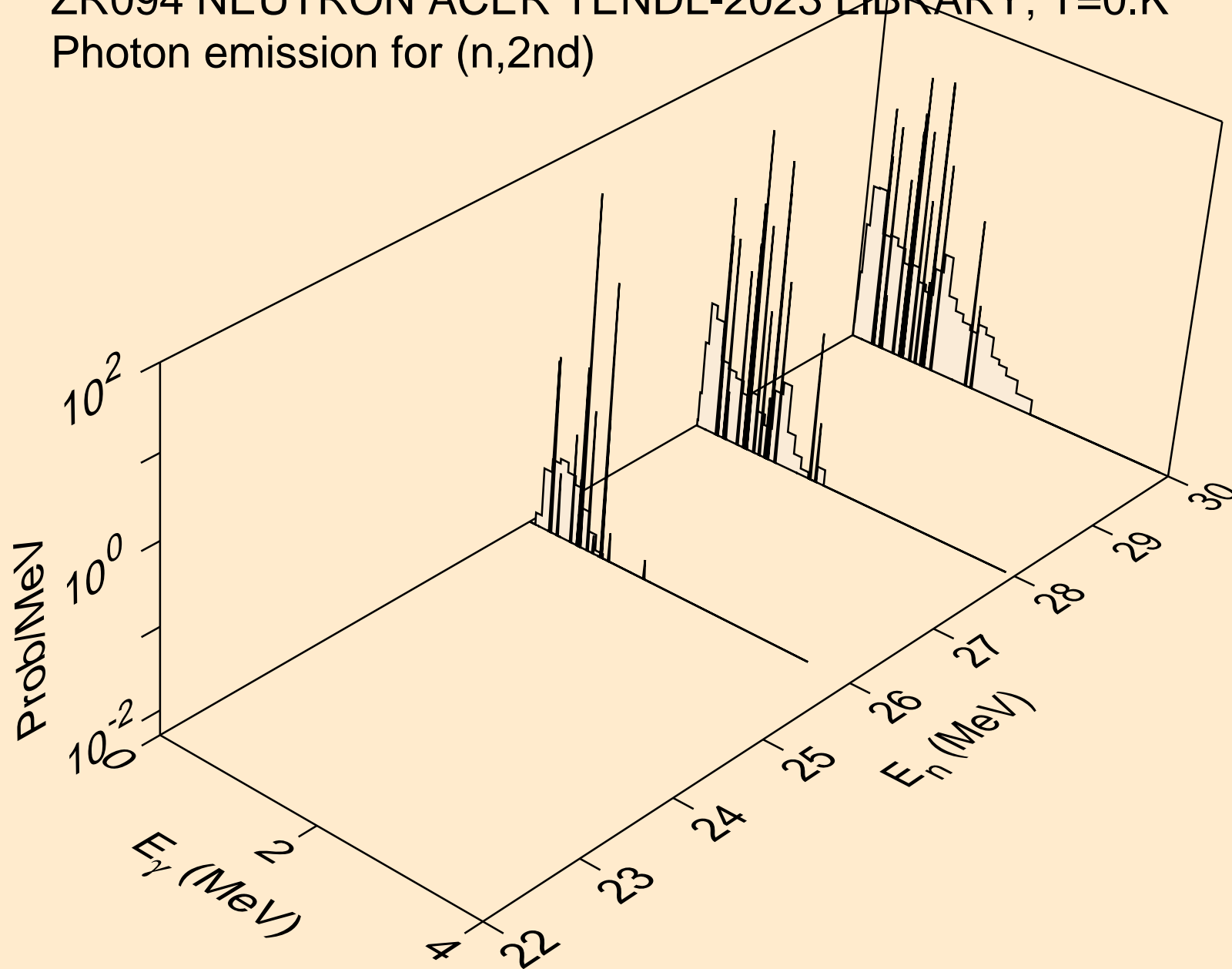
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Neutron emission for (n,n\*c)



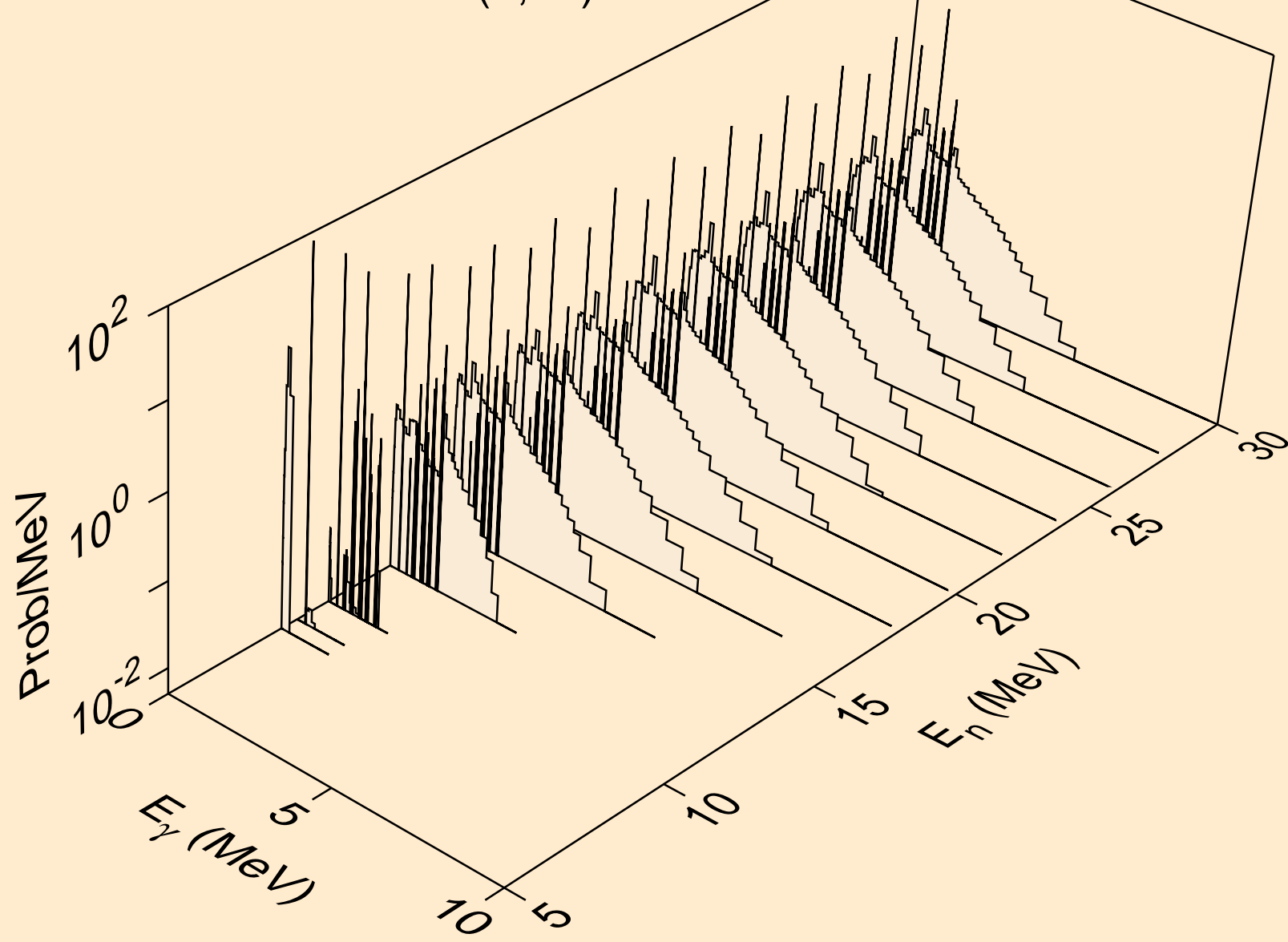
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Photon emission for (n,x)



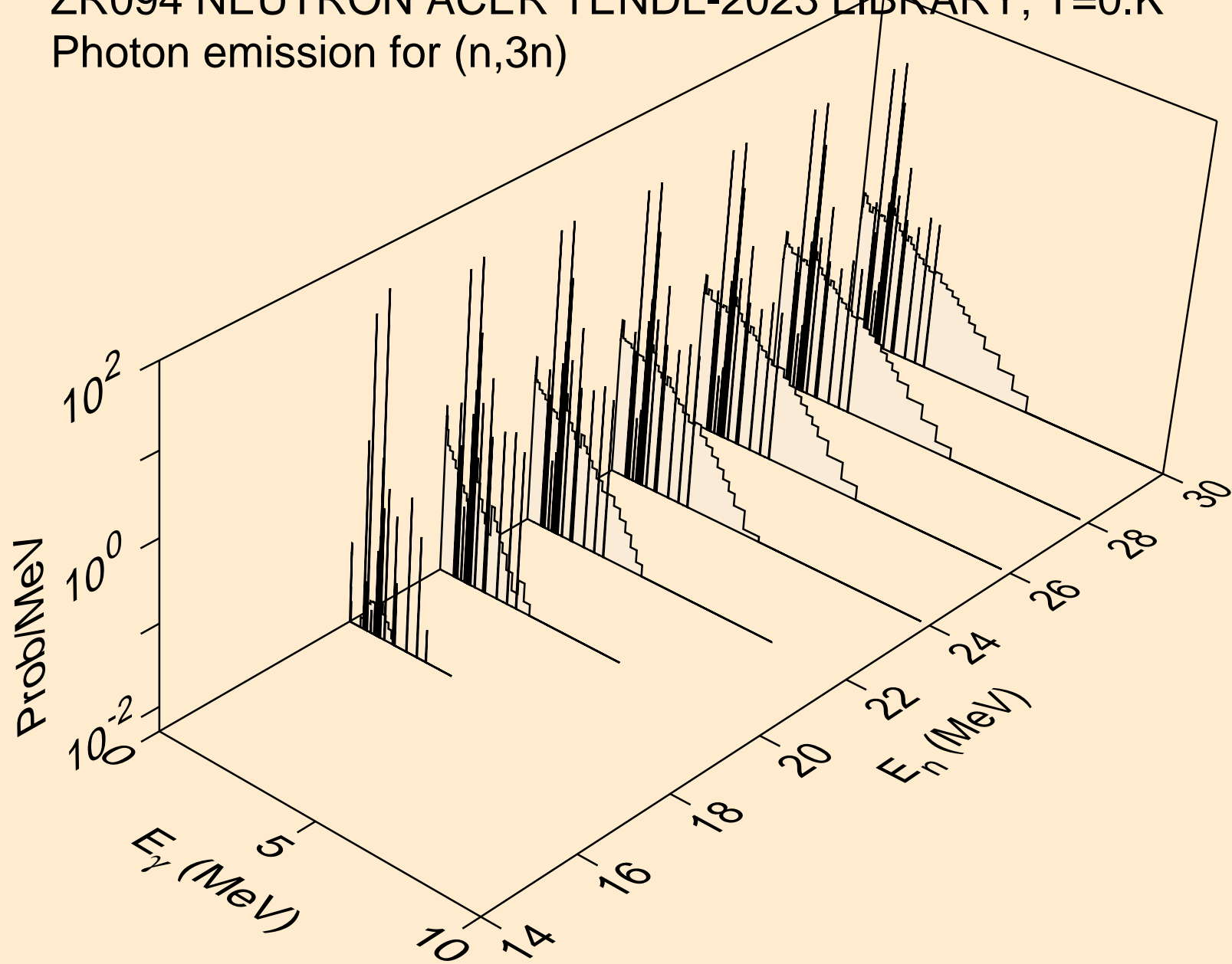
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Photon emission for (n,2nd)



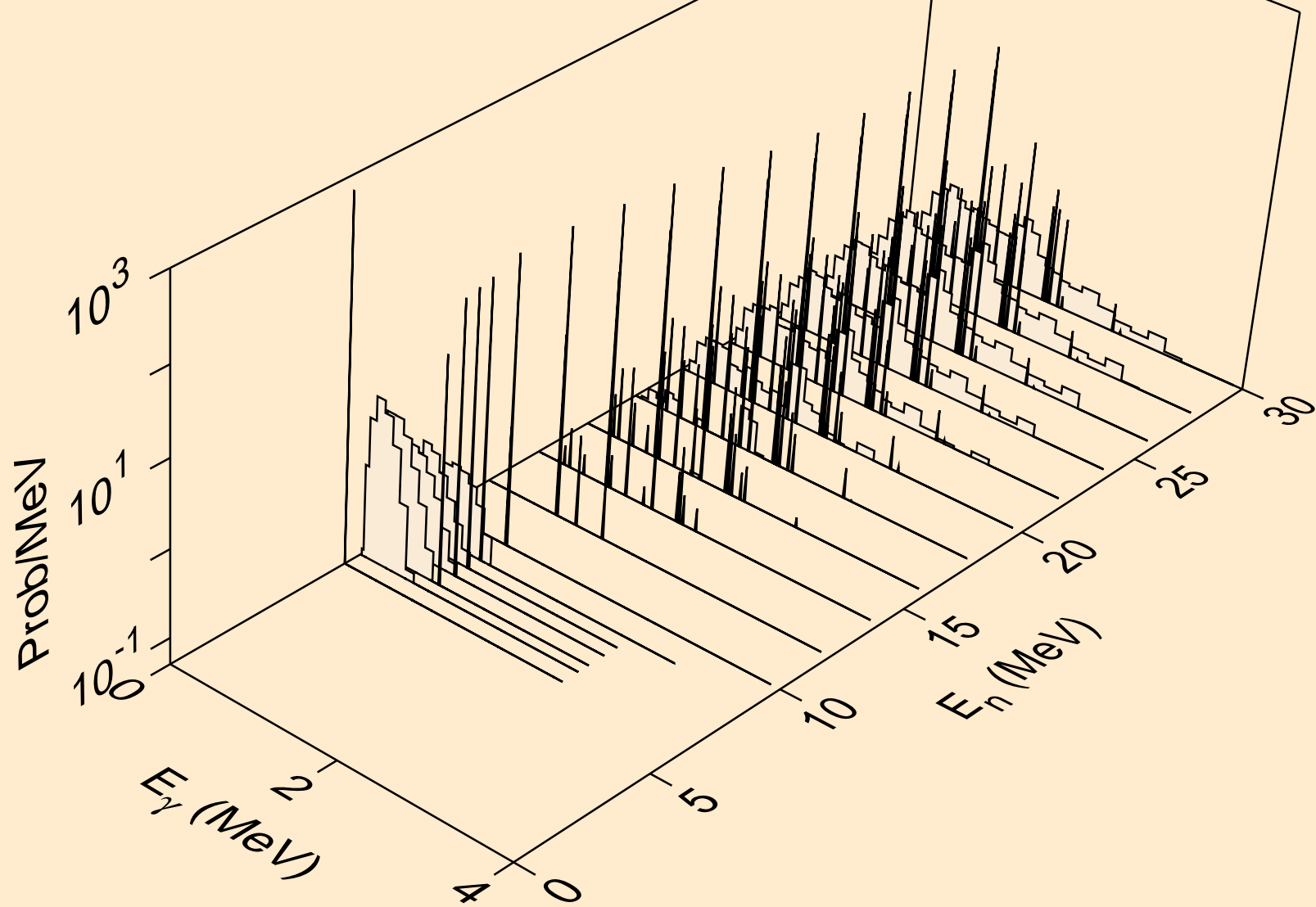
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Photon emission for (n,2n)



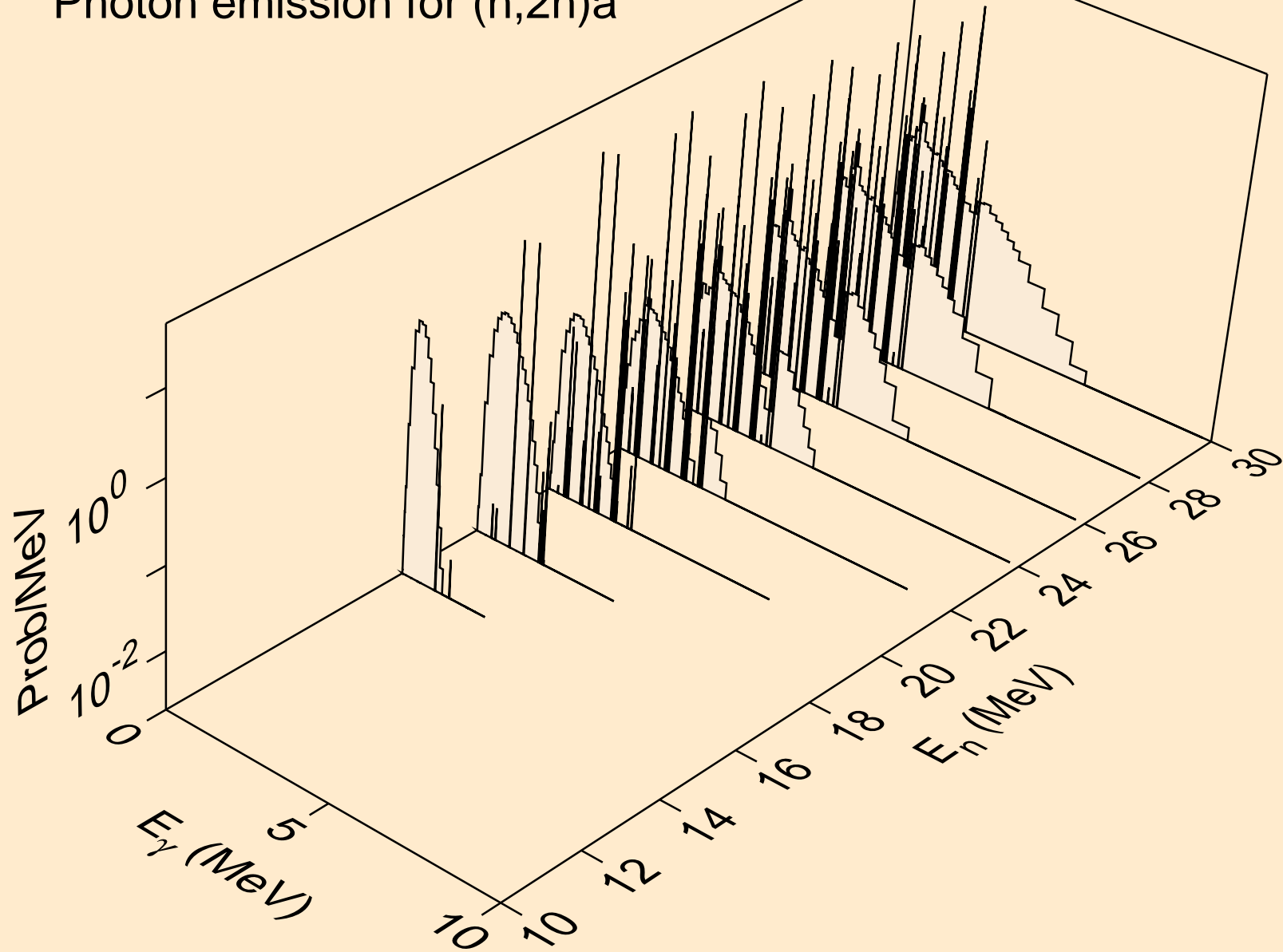
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Photon emission for (n,3n)



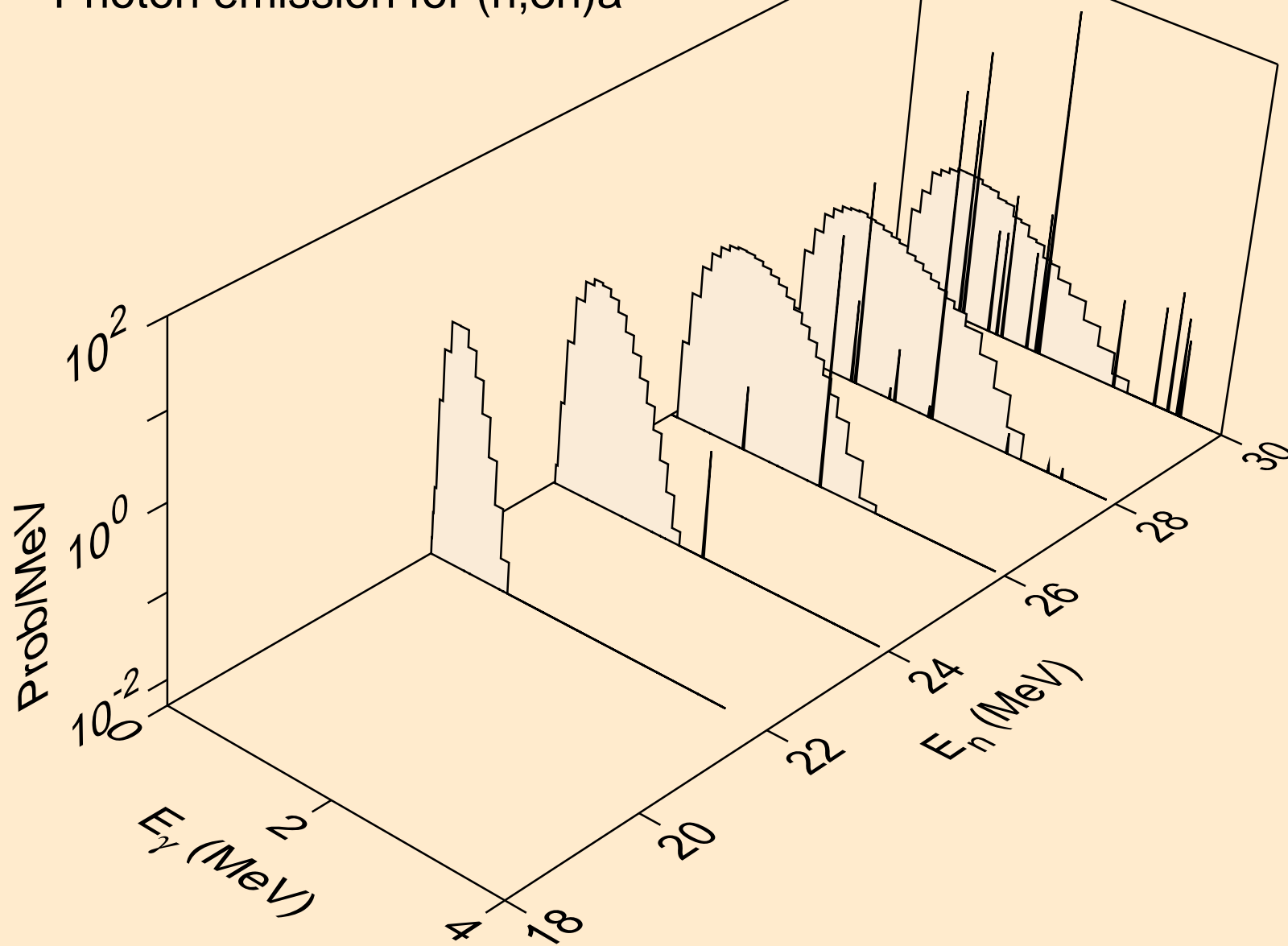
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



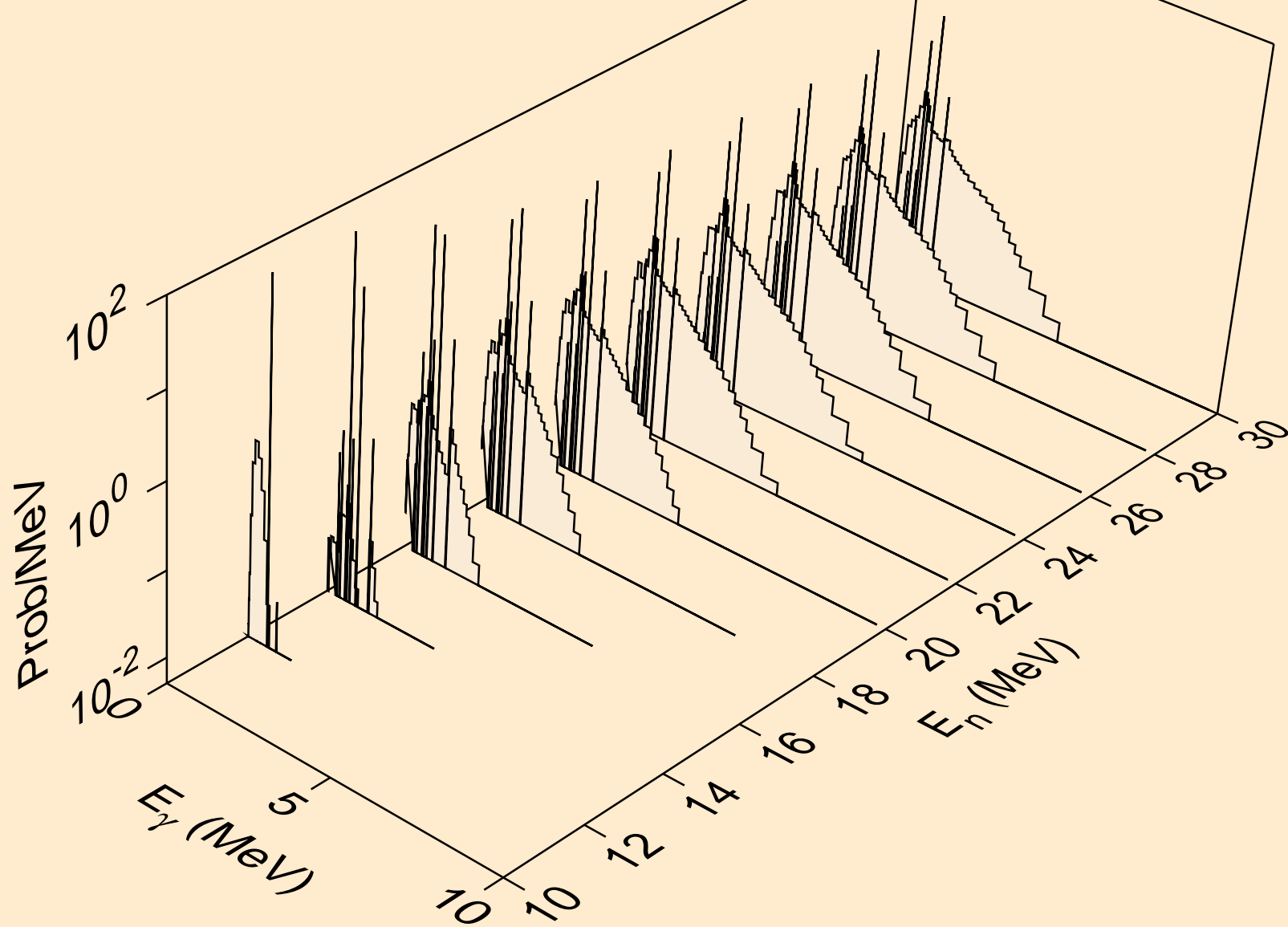
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



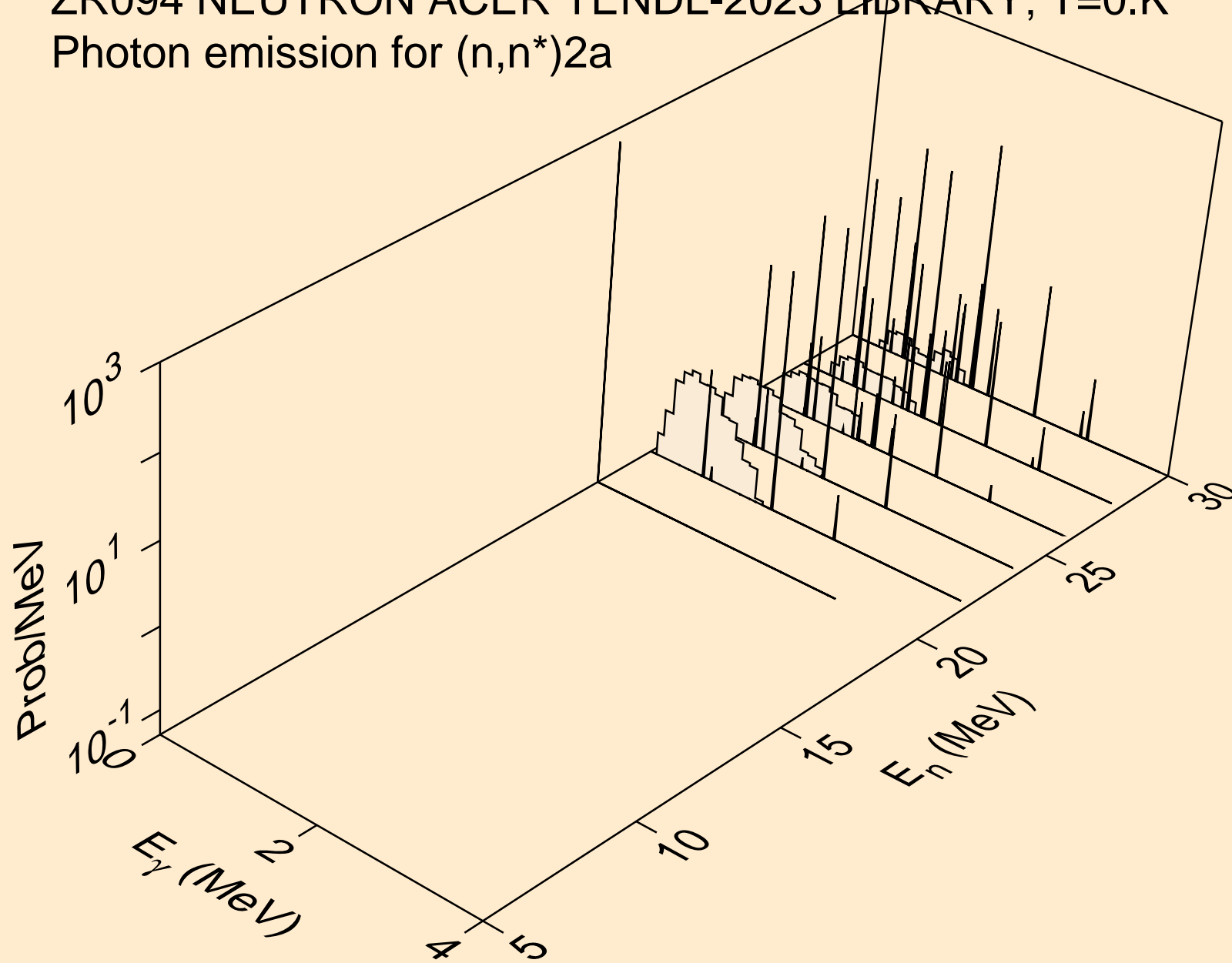
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



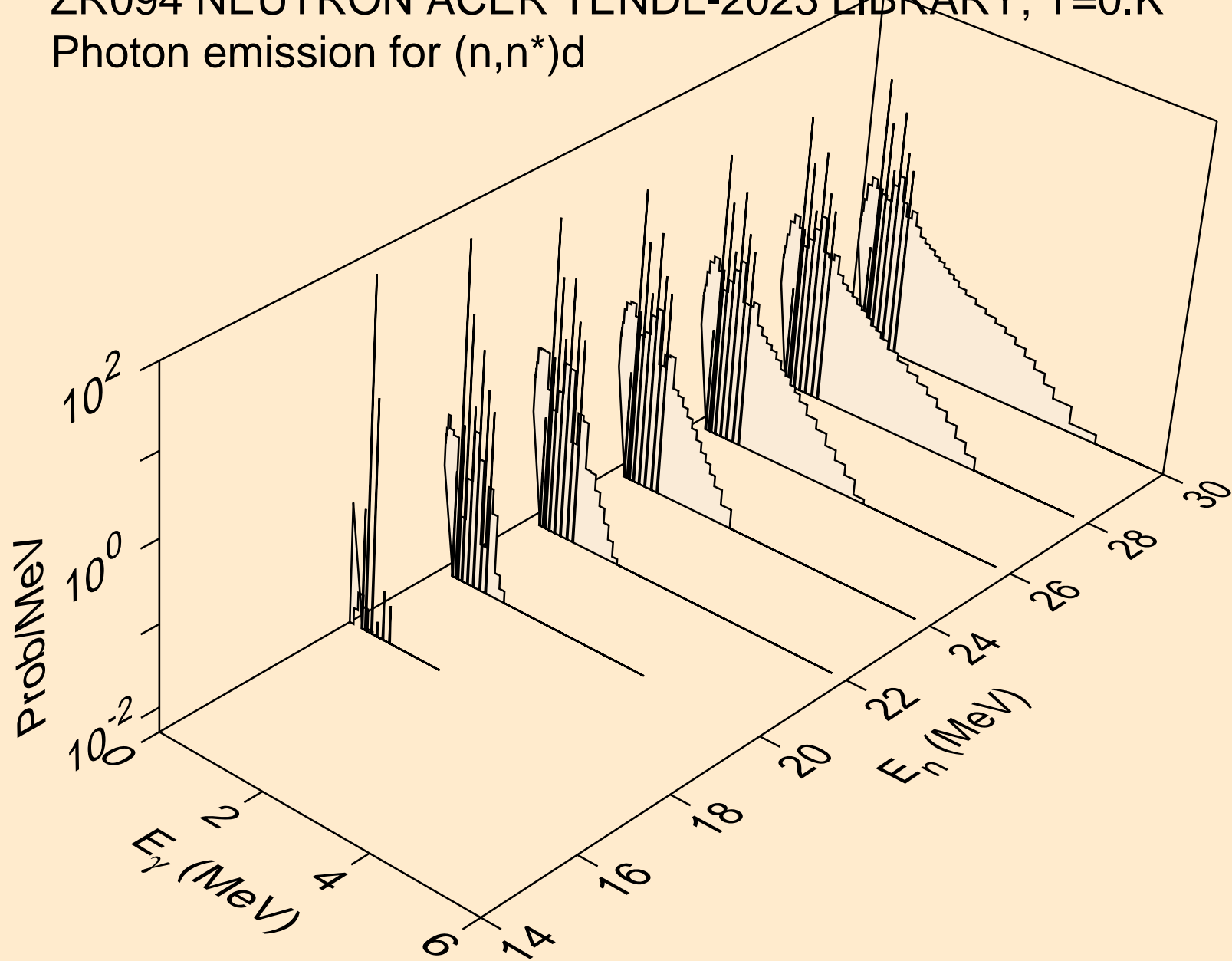
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Photon emission for (n,n\*)p



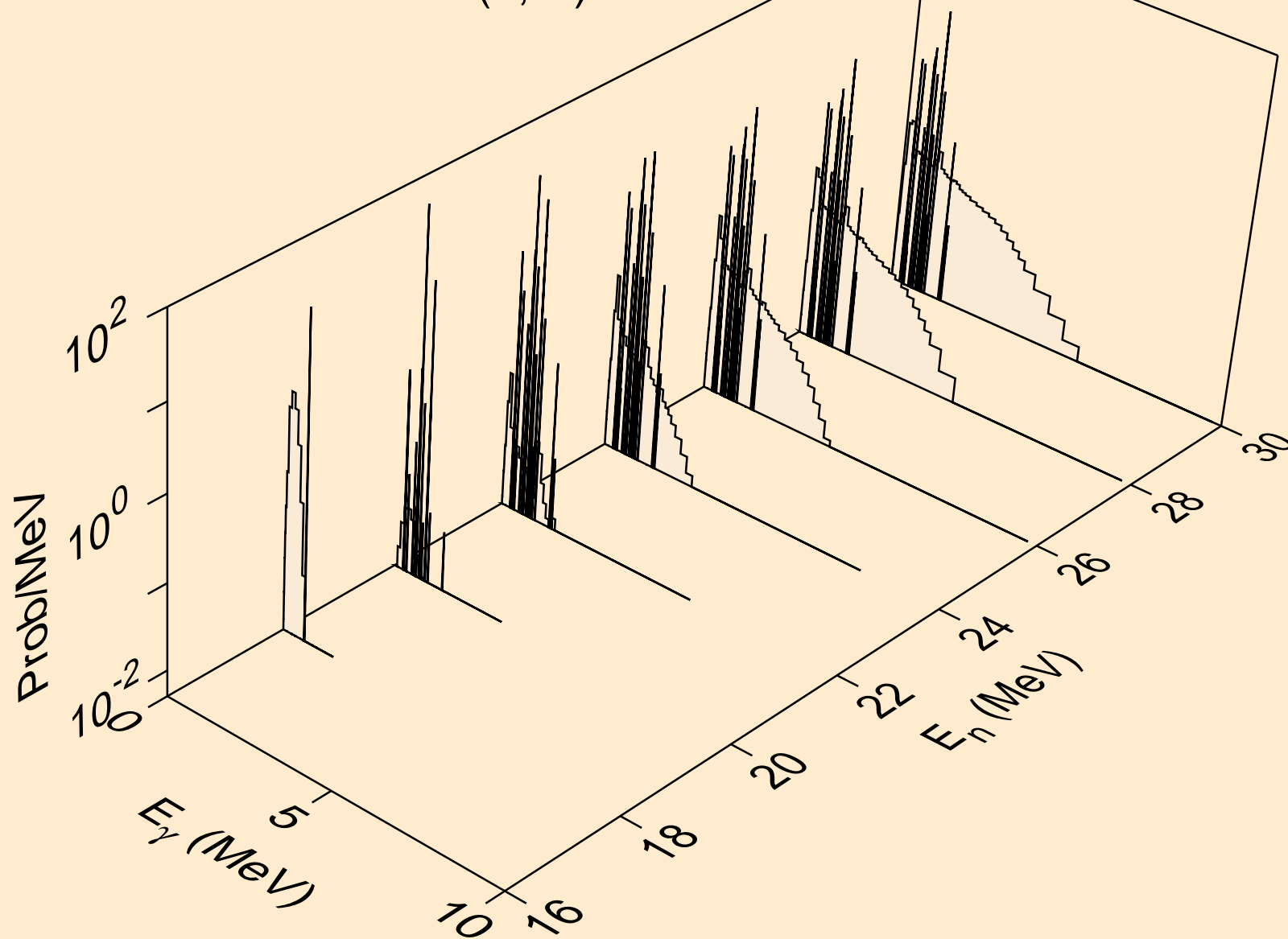
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



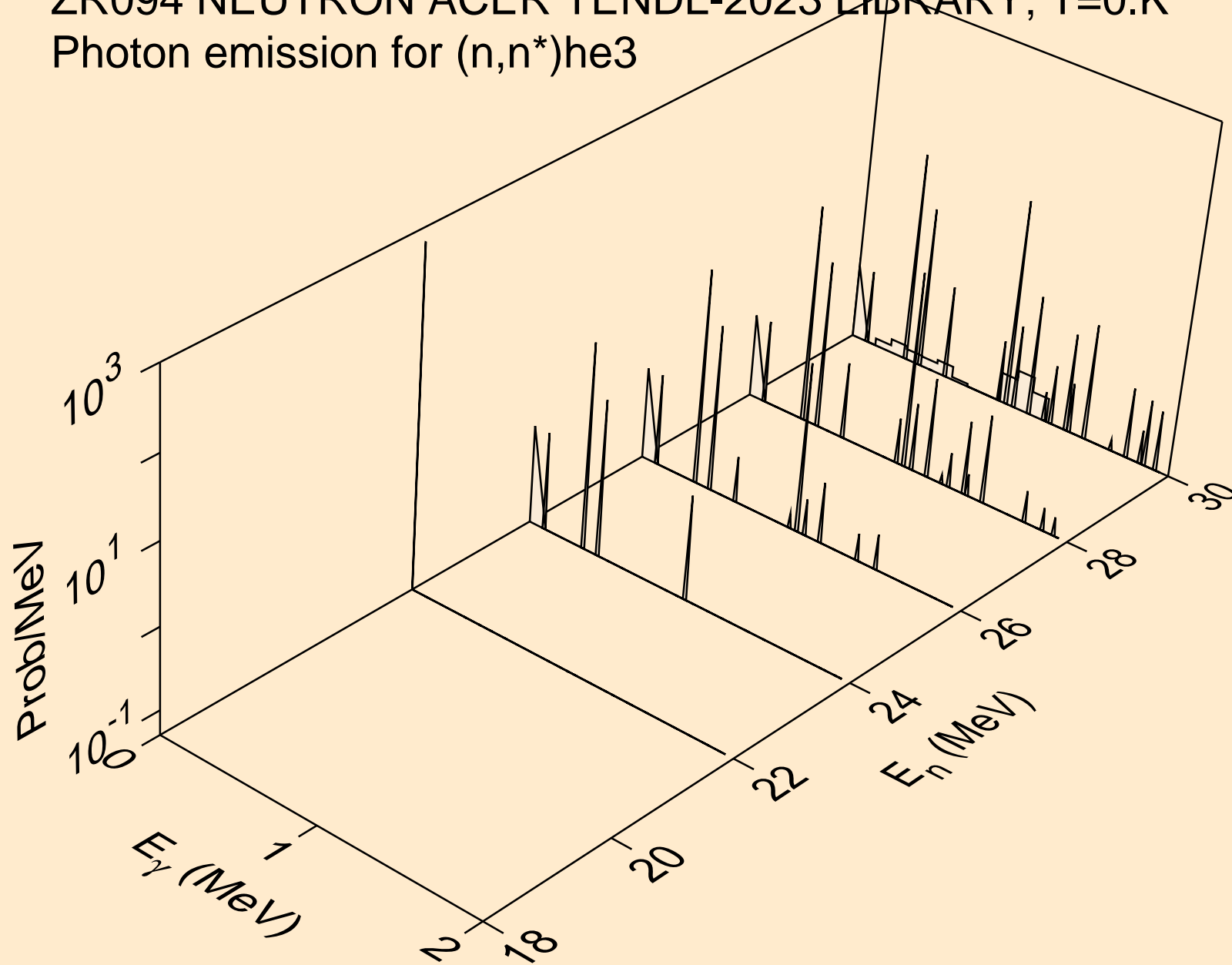
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Photon emission for (n,n\*)d



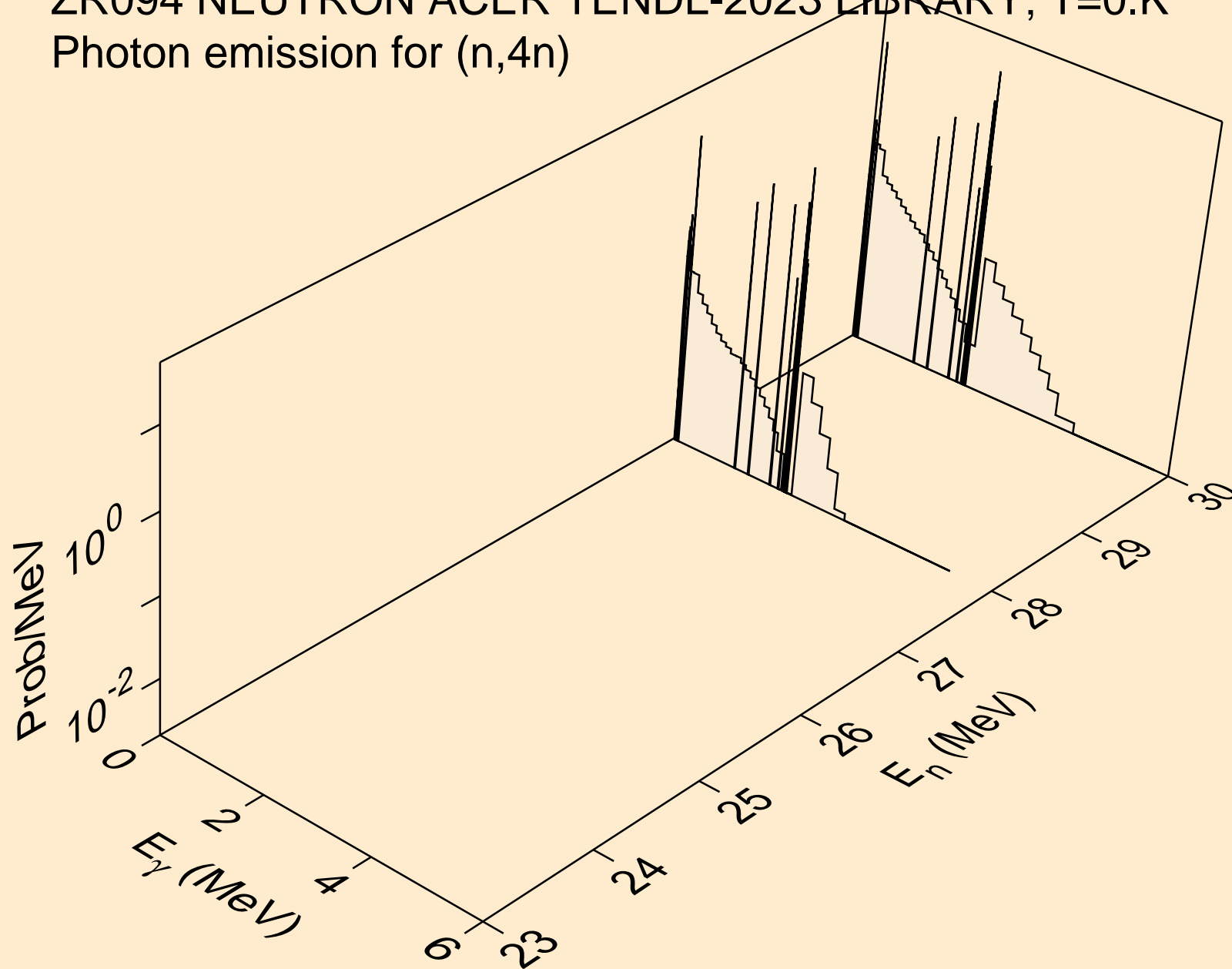
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Photon emission for (n,n\*)t



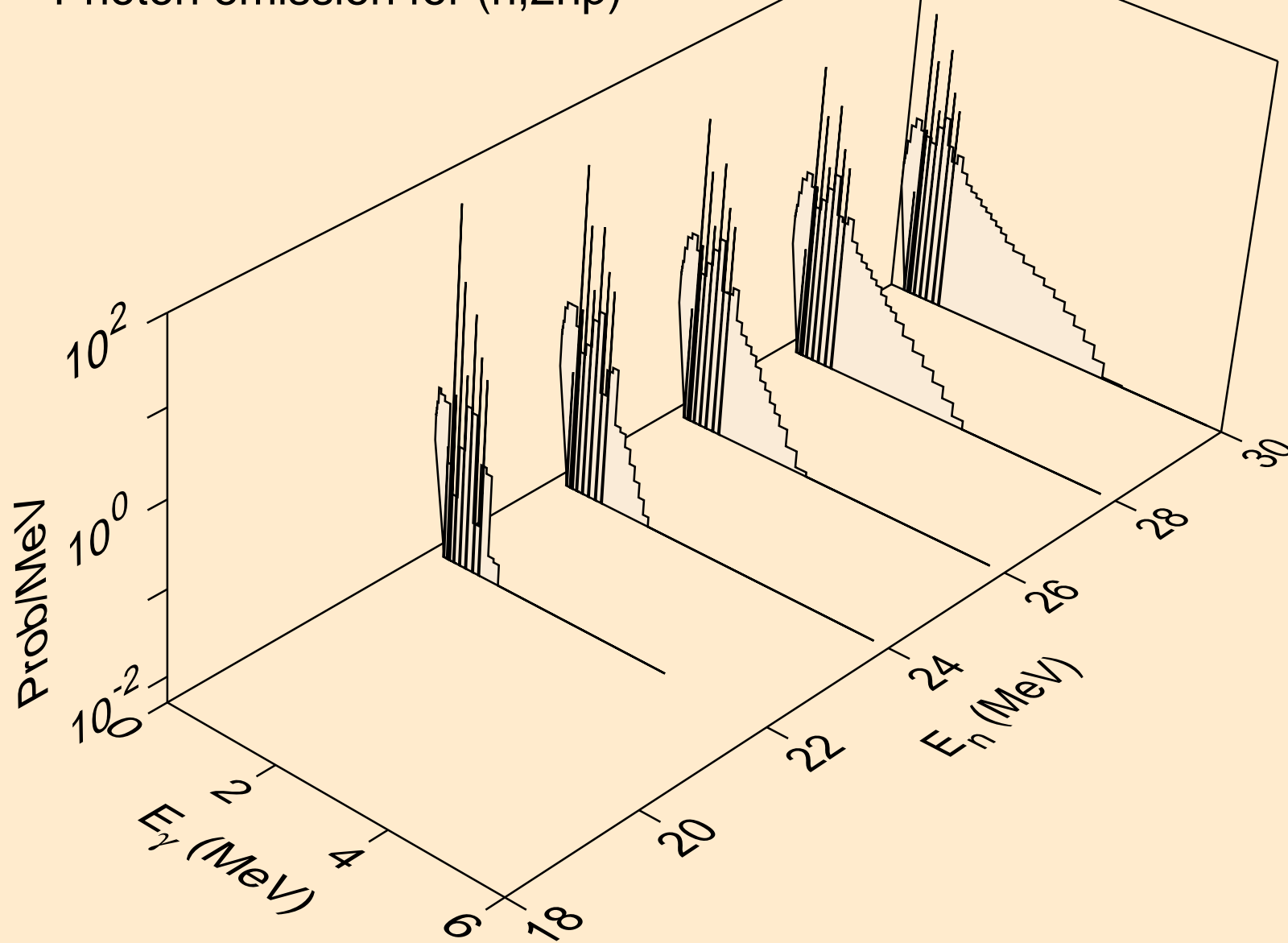
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Photon emission for (n,n\*)he3



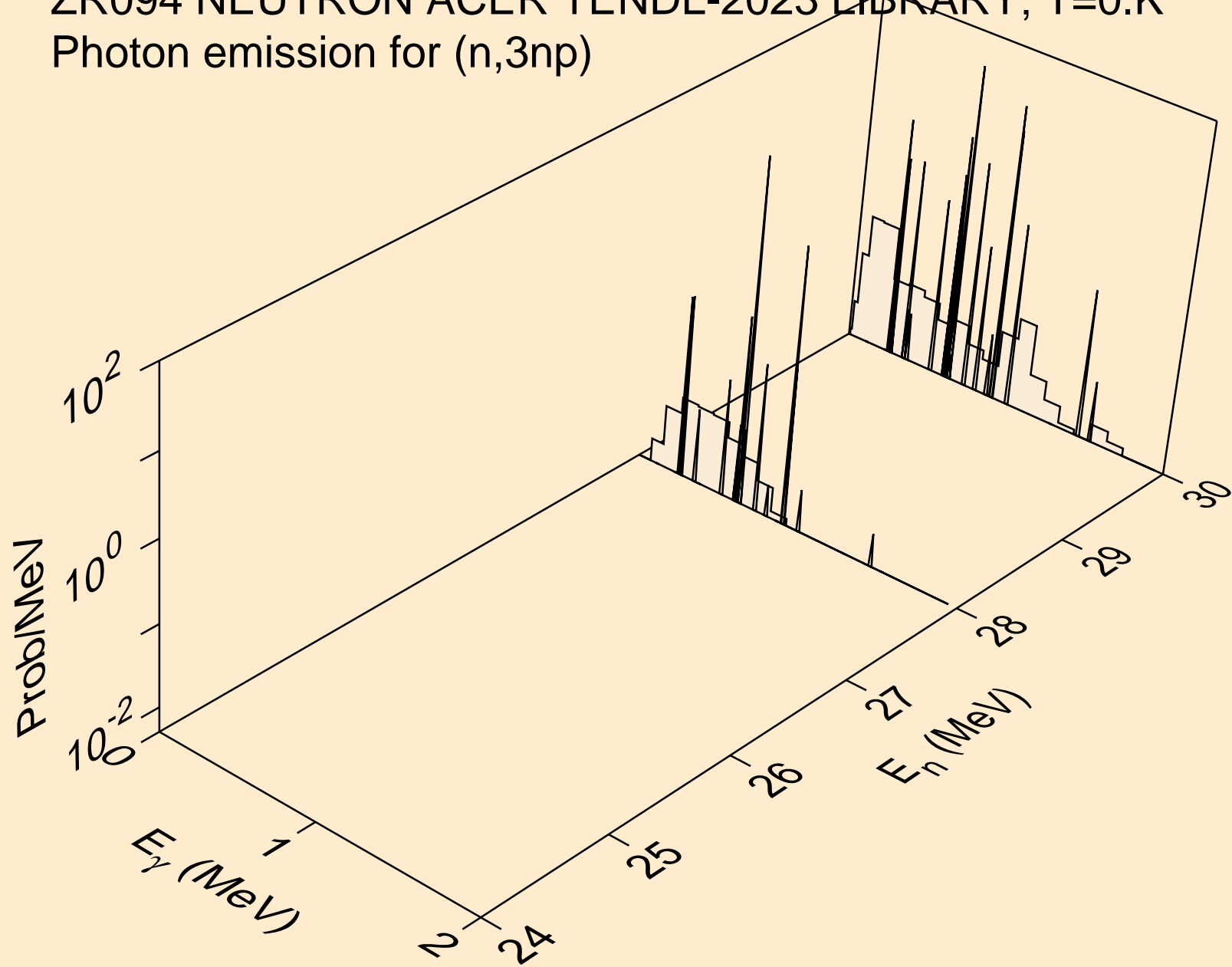
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Photon emission for (n,4n)



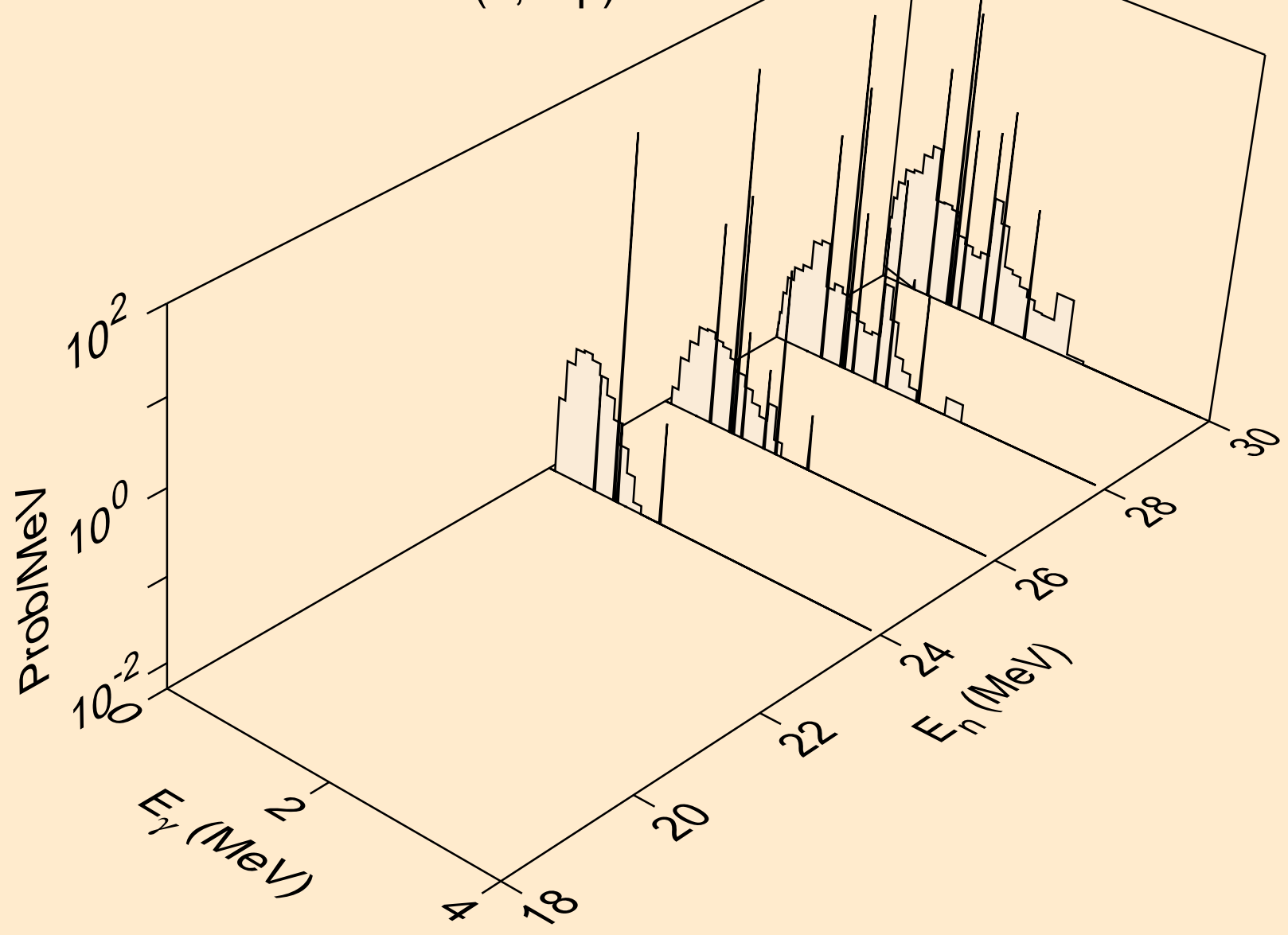
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Photon emission for (n,2np)



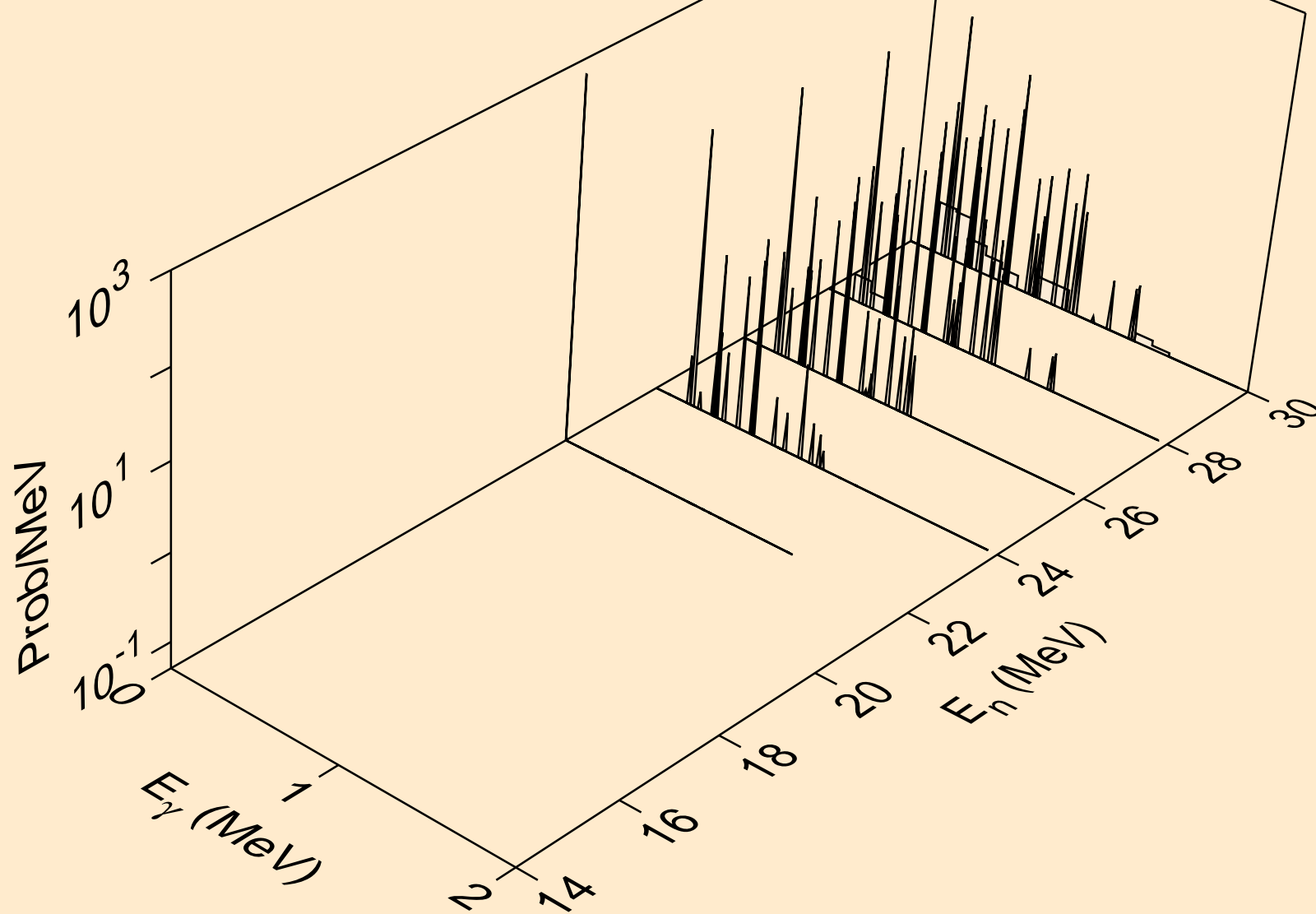
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Photon emission for (n,3np)



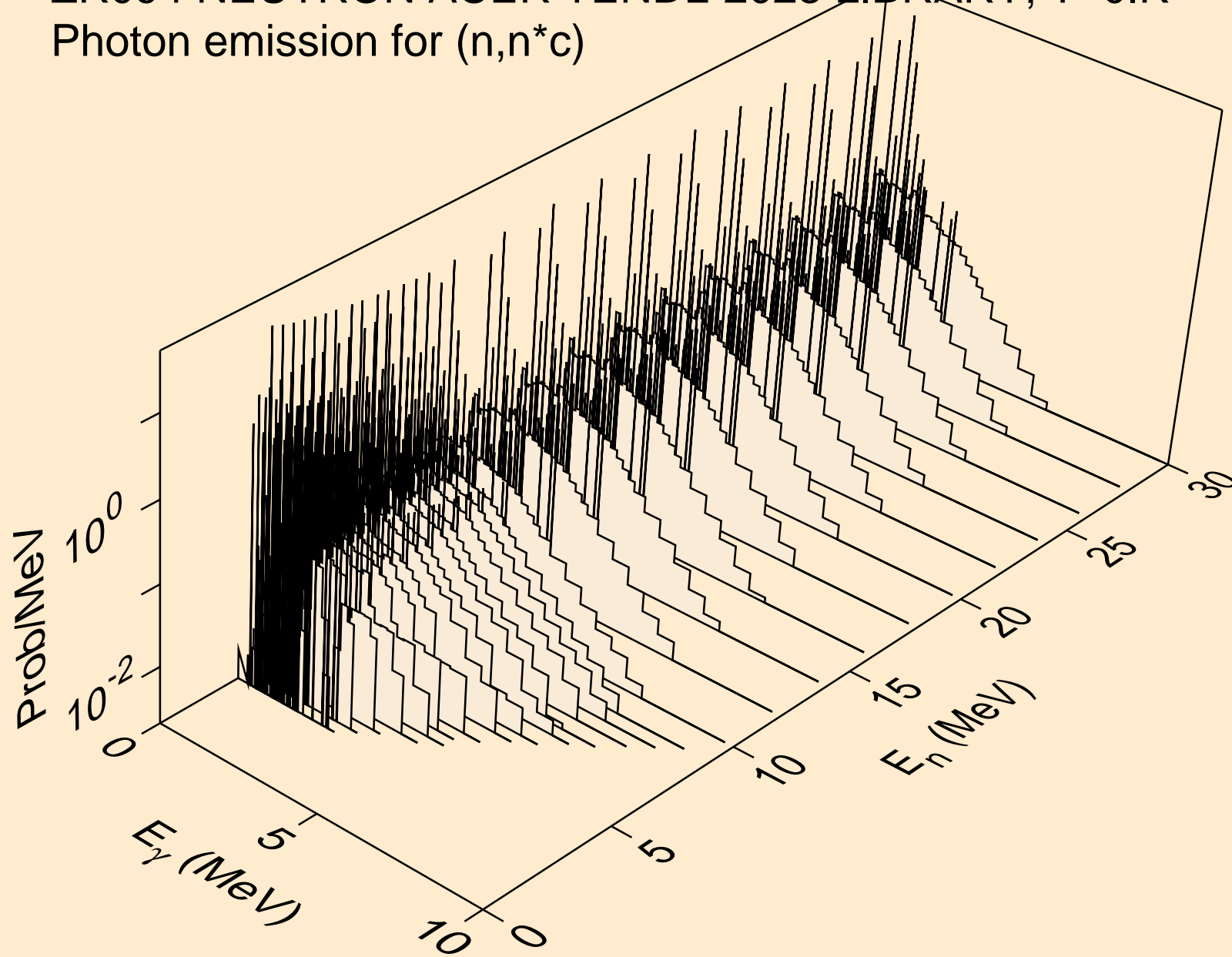
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Photon emission for (n,n2p)



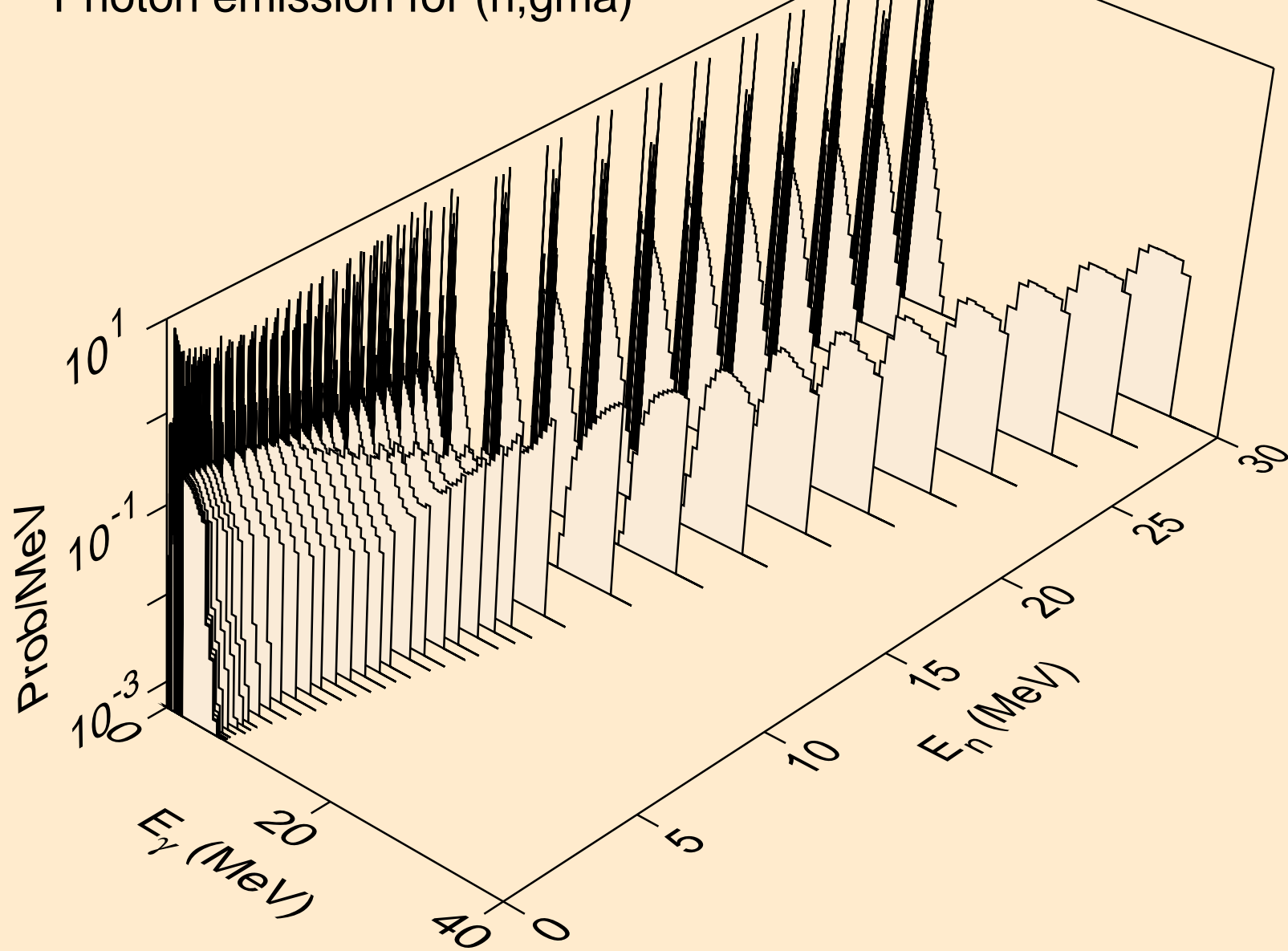
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Photon emission for (n,npa)



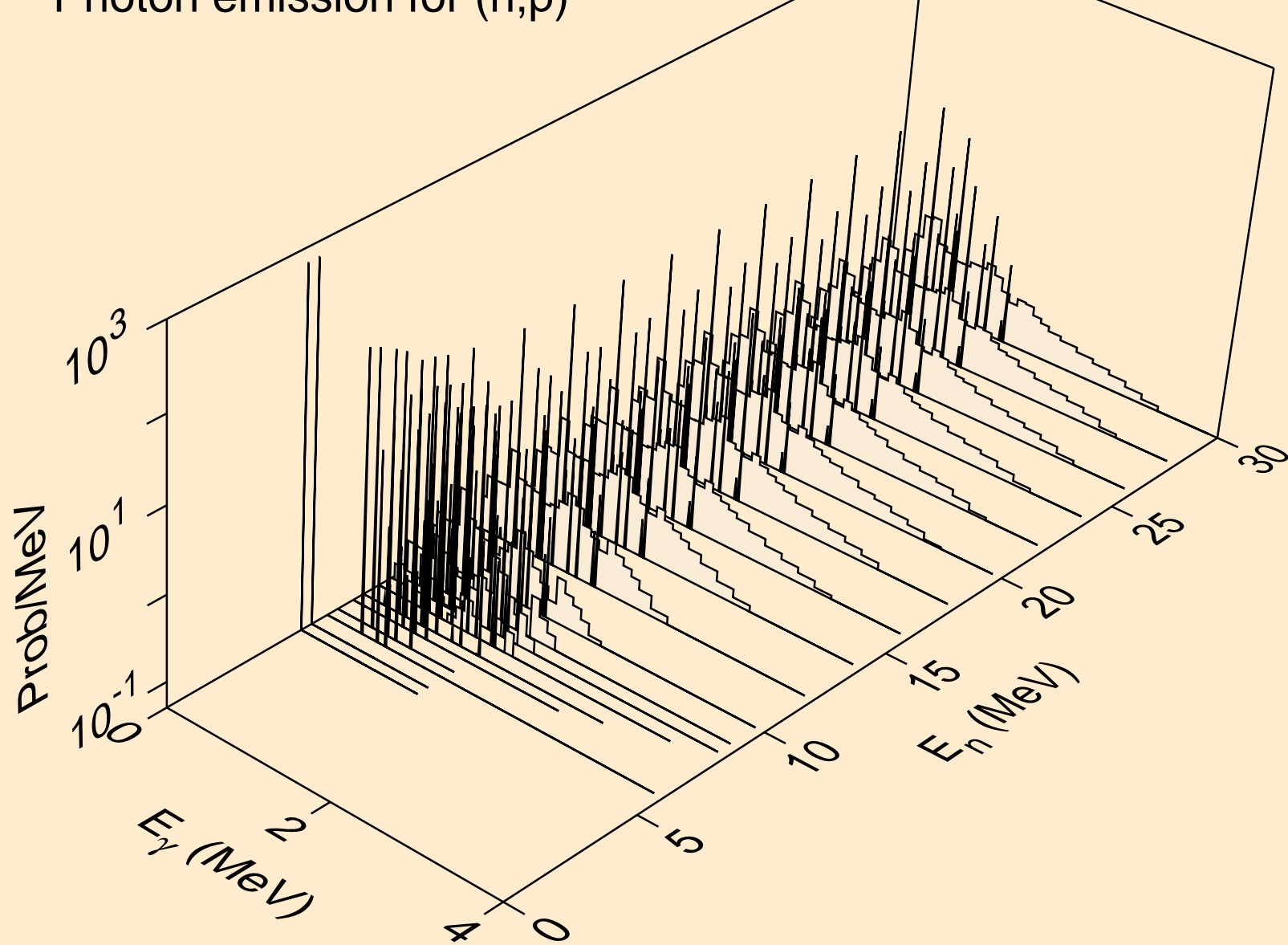
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Photon emission for (n,n\*c)



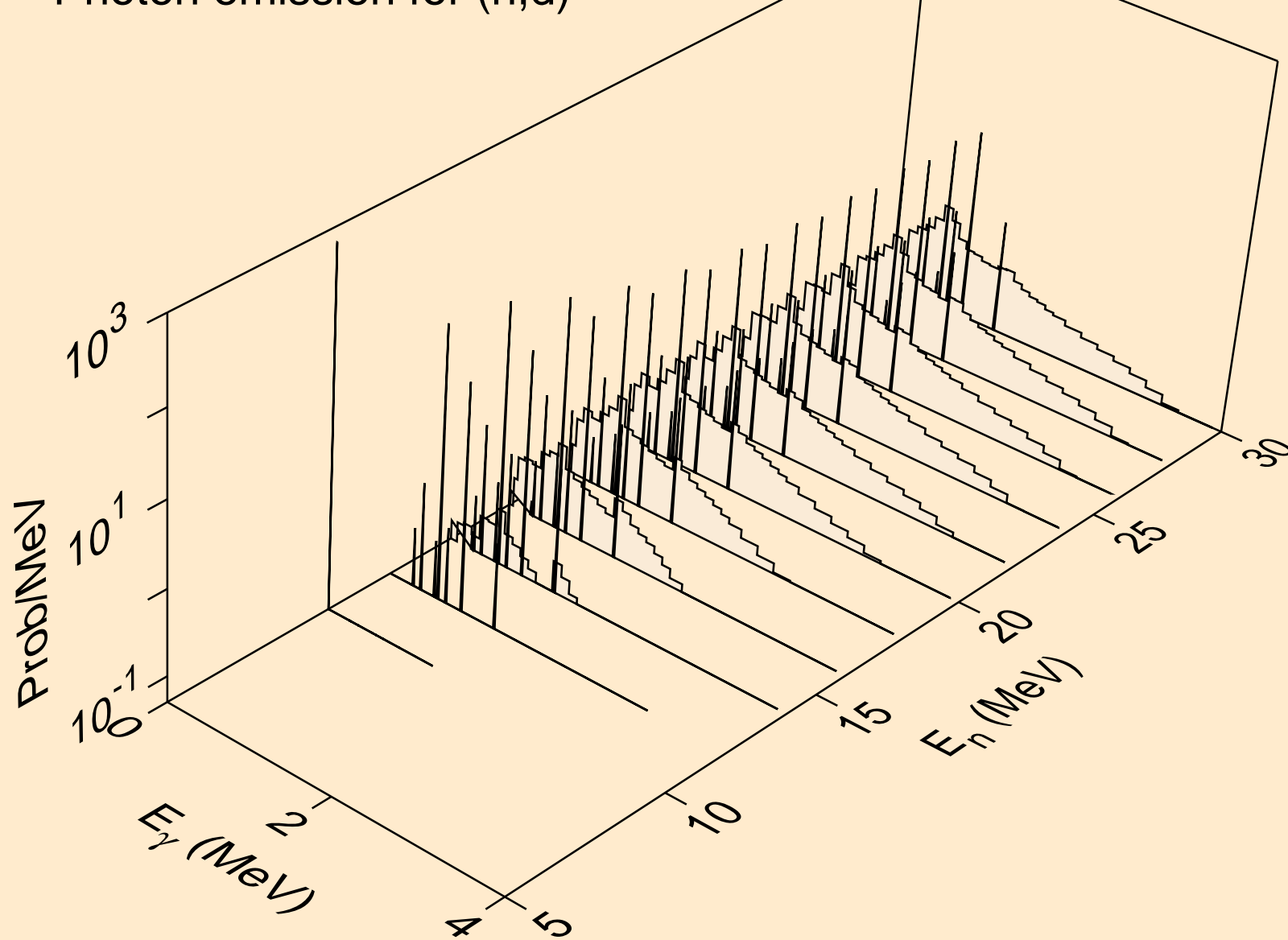
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Photon emission for (n,gma)



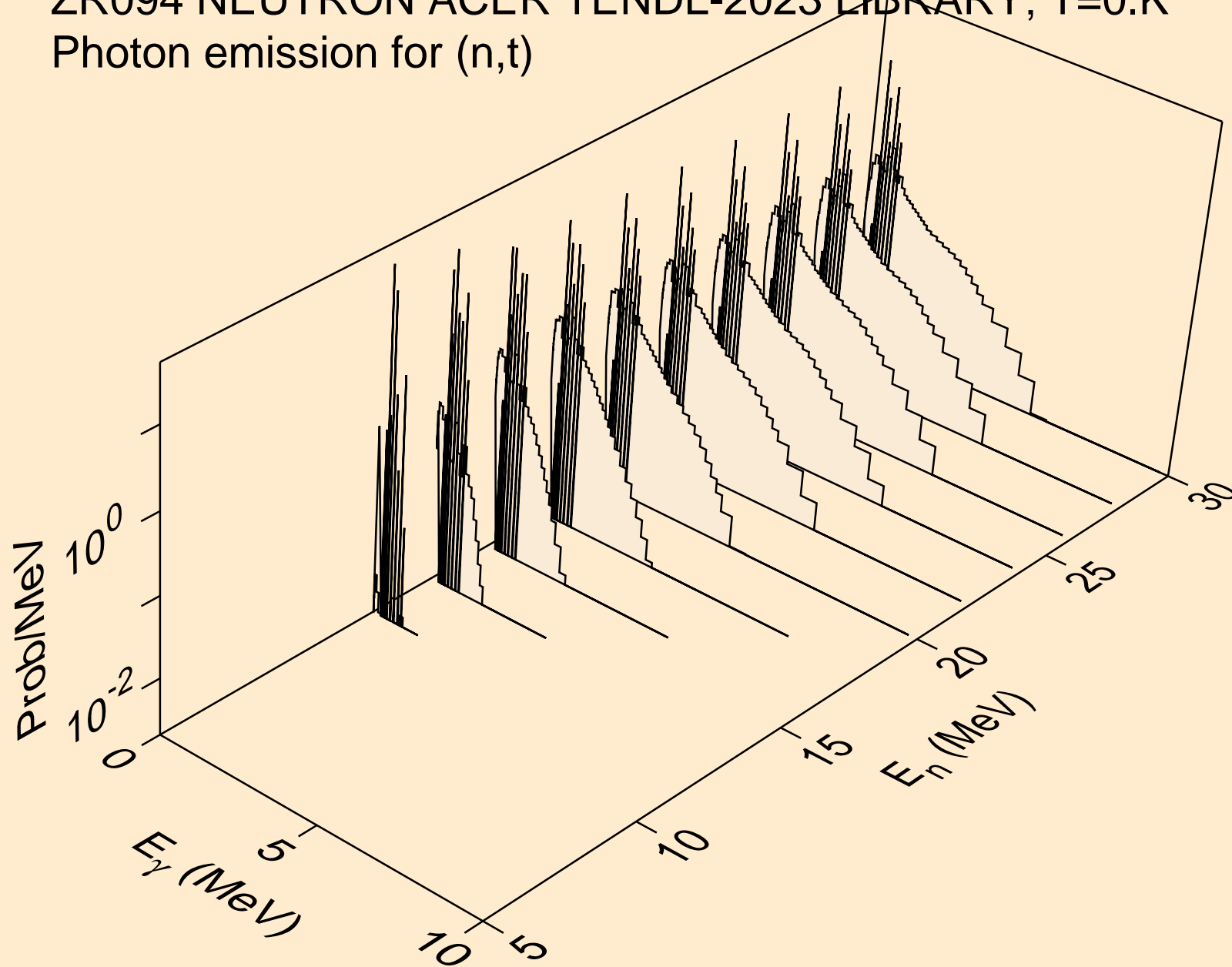
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Photon emission for (n,p)



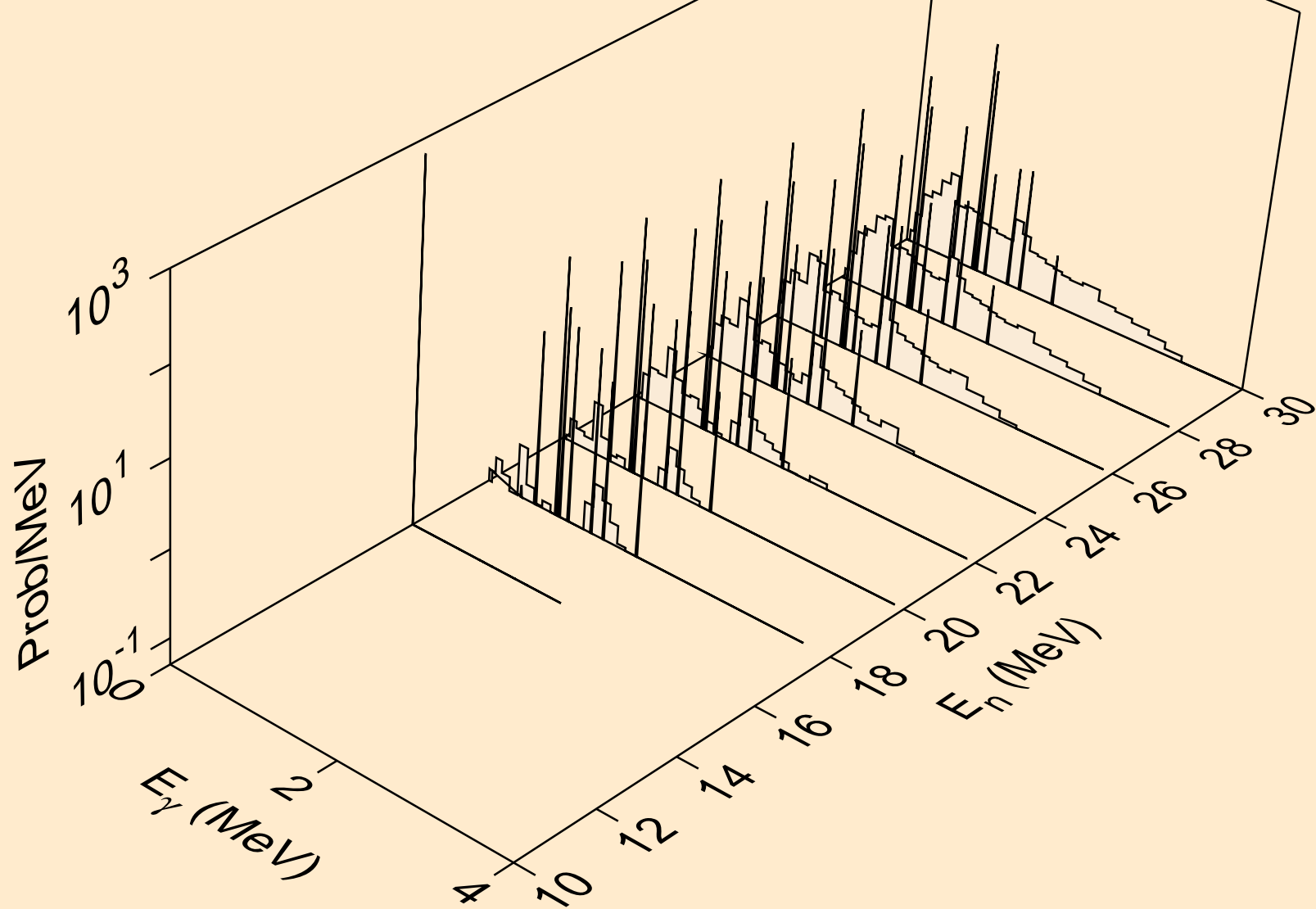
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Photon emission for (n,d)



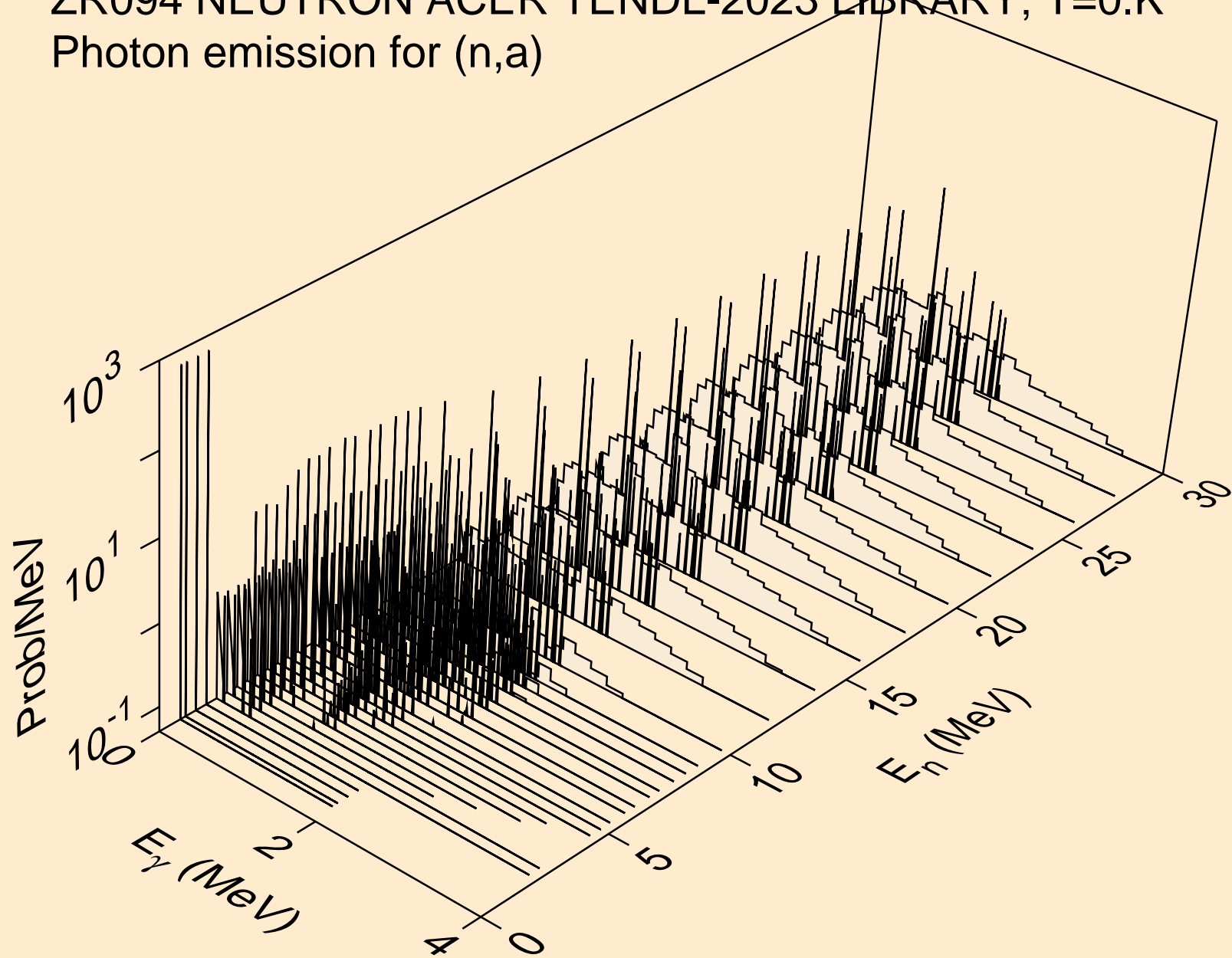
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Photon emission for (n,t)



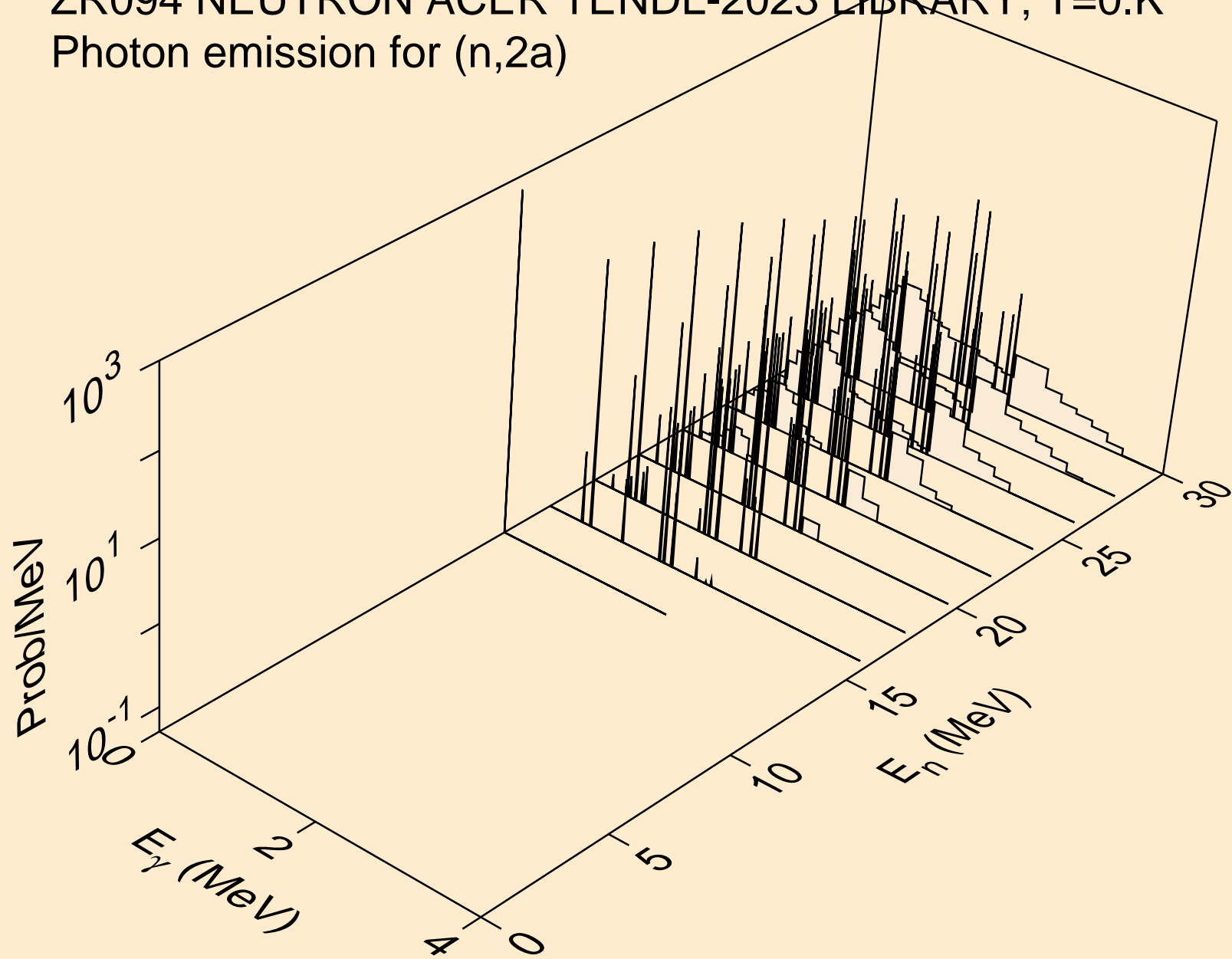
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Photon emission for (n,he3)



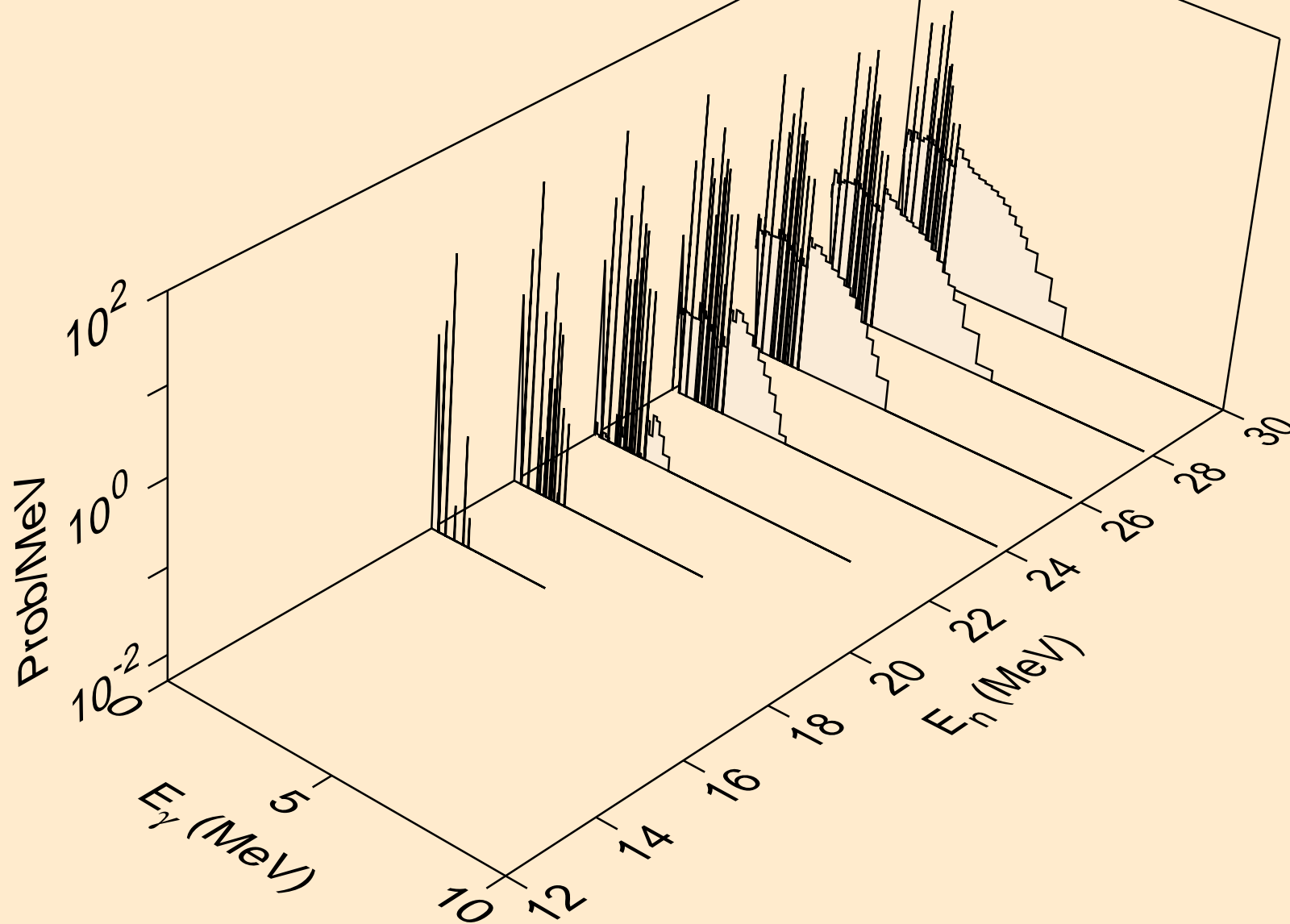
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Photon emission for (n,a)



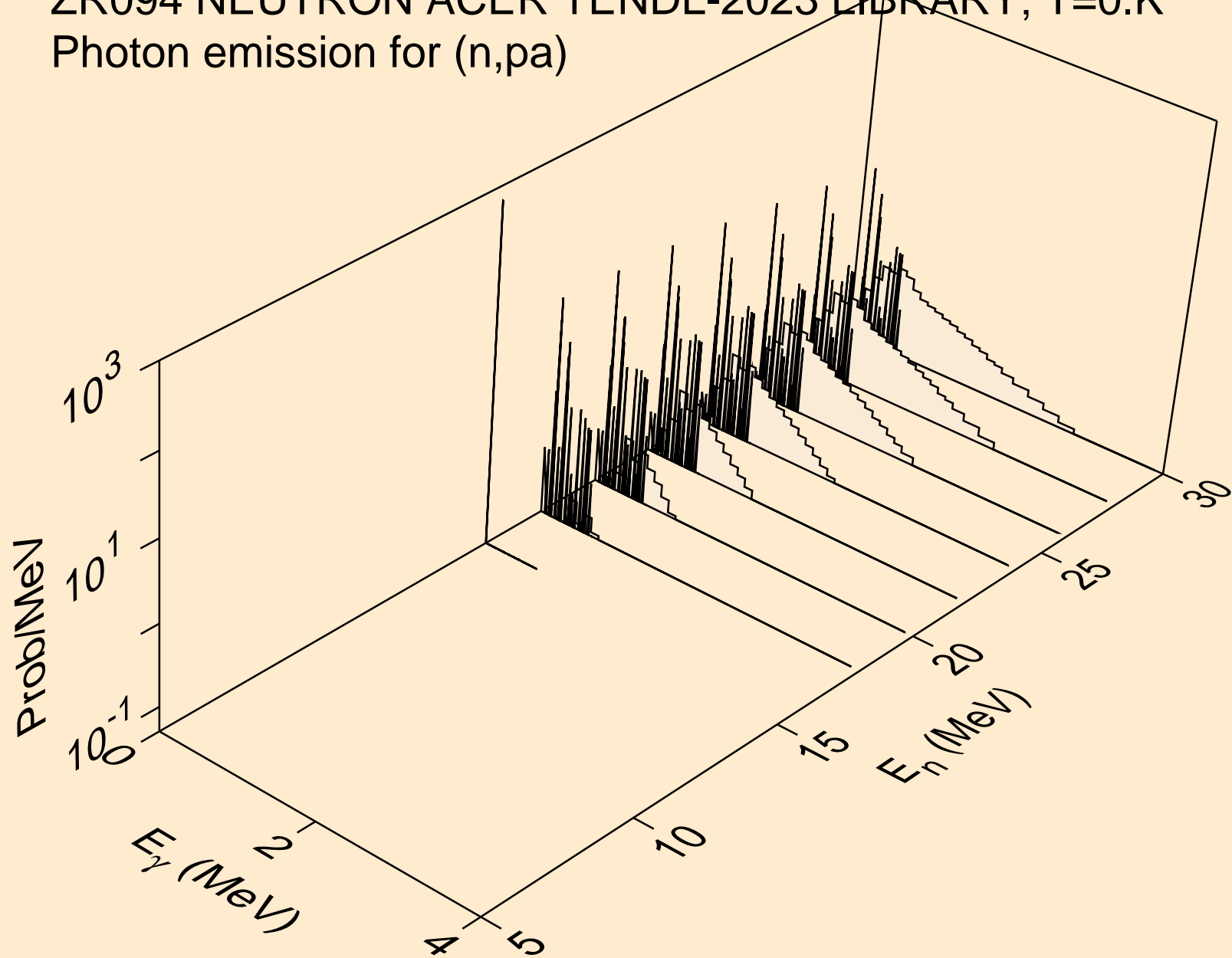
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



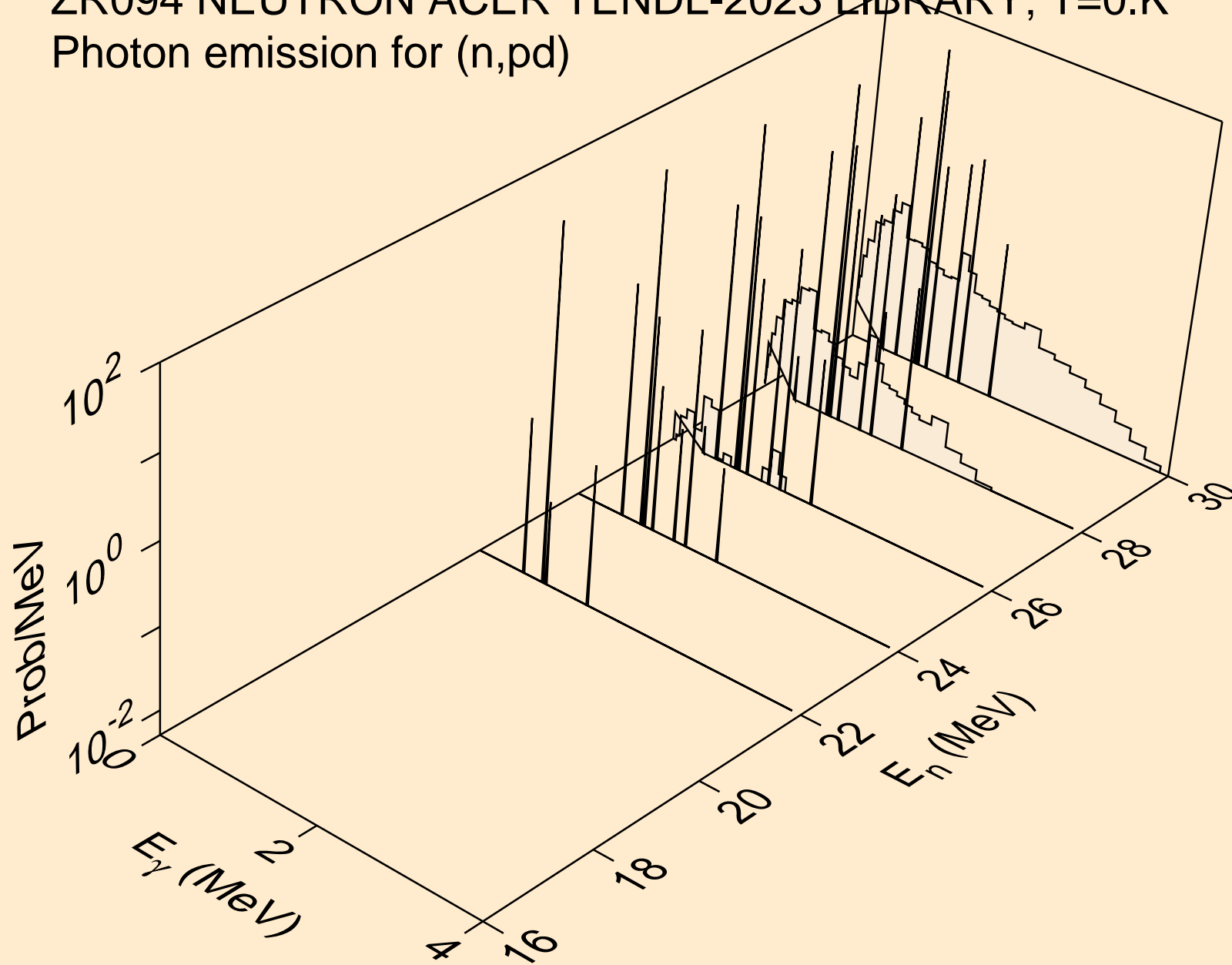
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Photon emission for (n,2p)



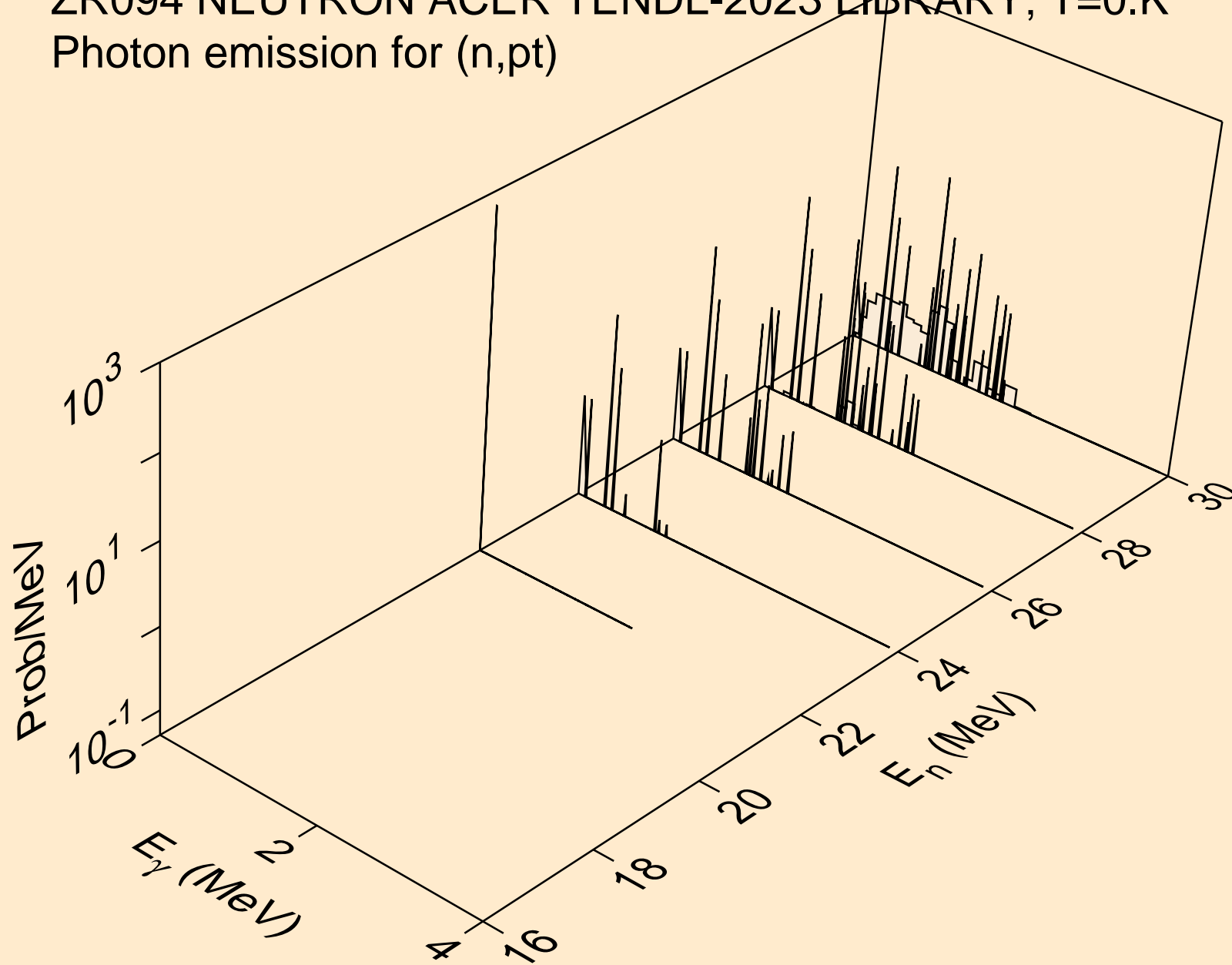
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Photon emission for (n,p $\alpha$ )



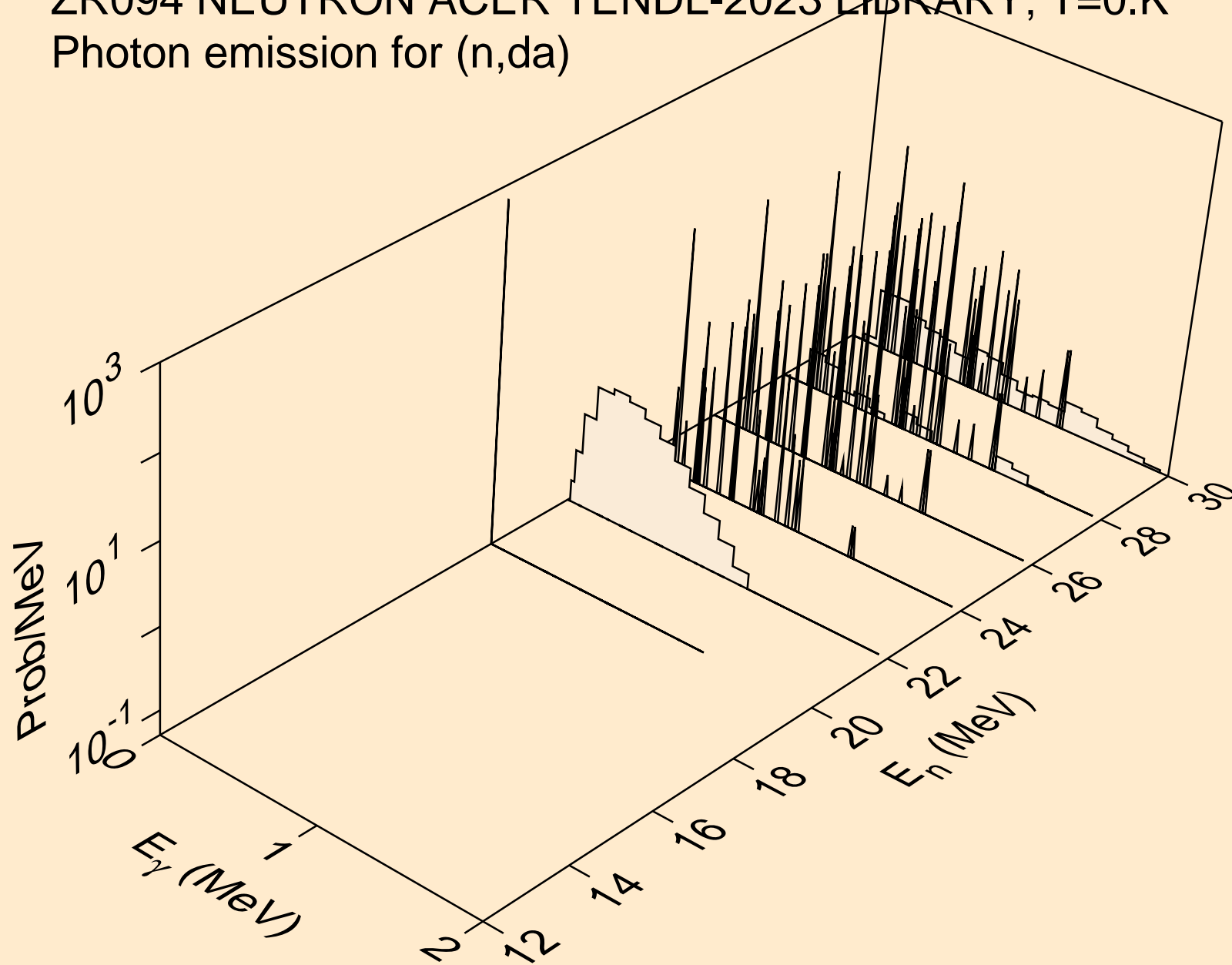
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



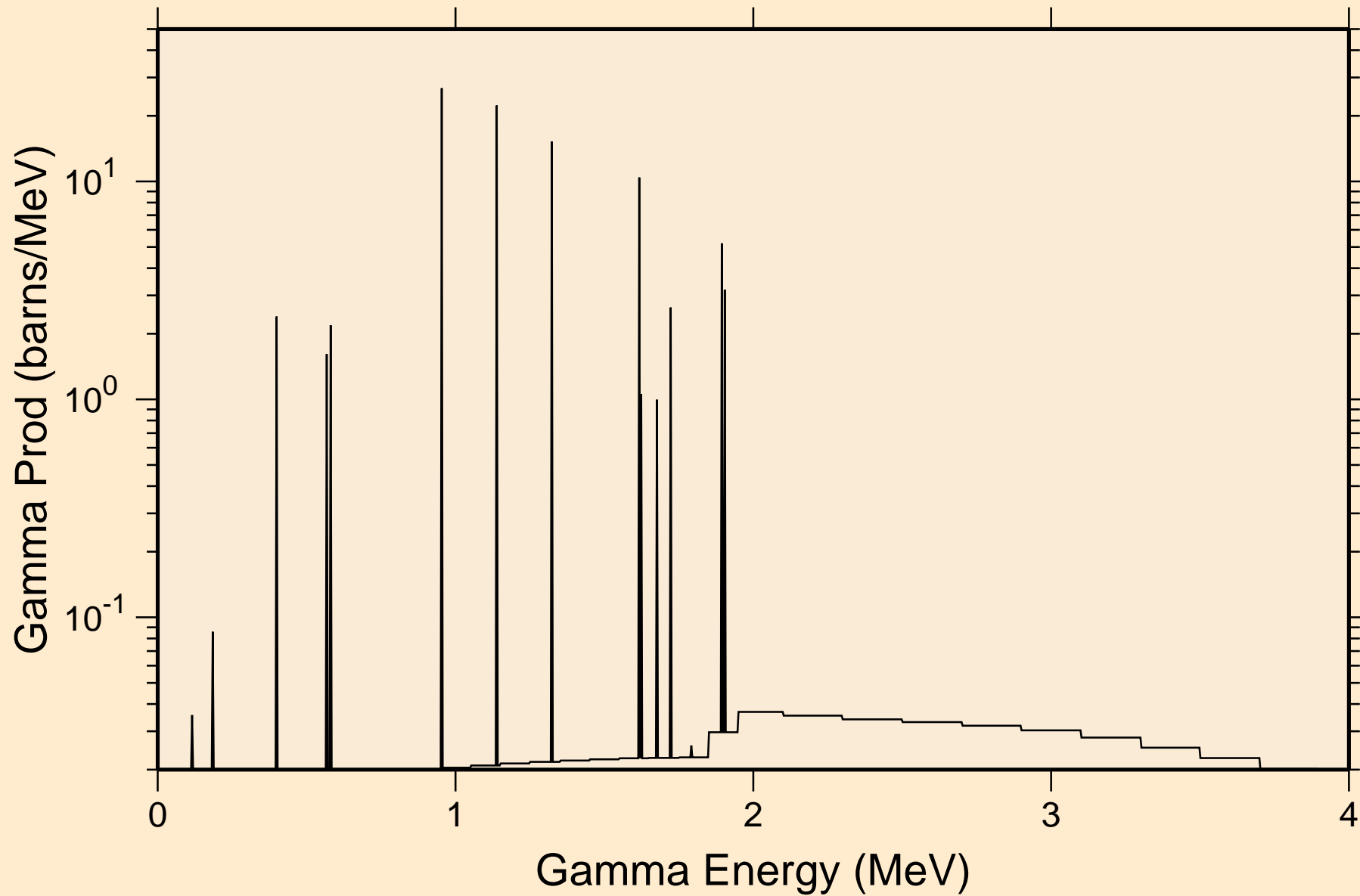
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Photon emission for (n,pt)



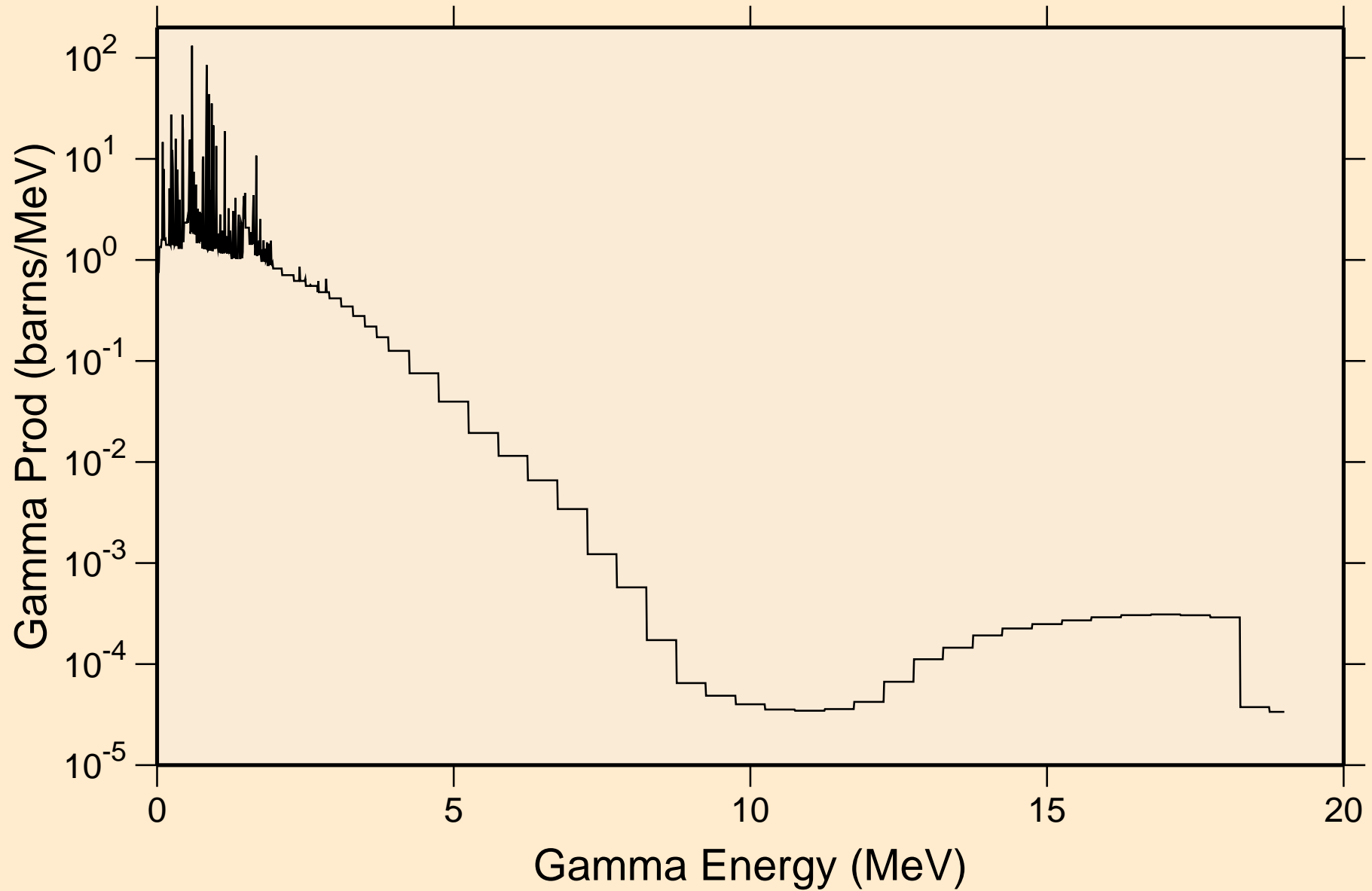
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

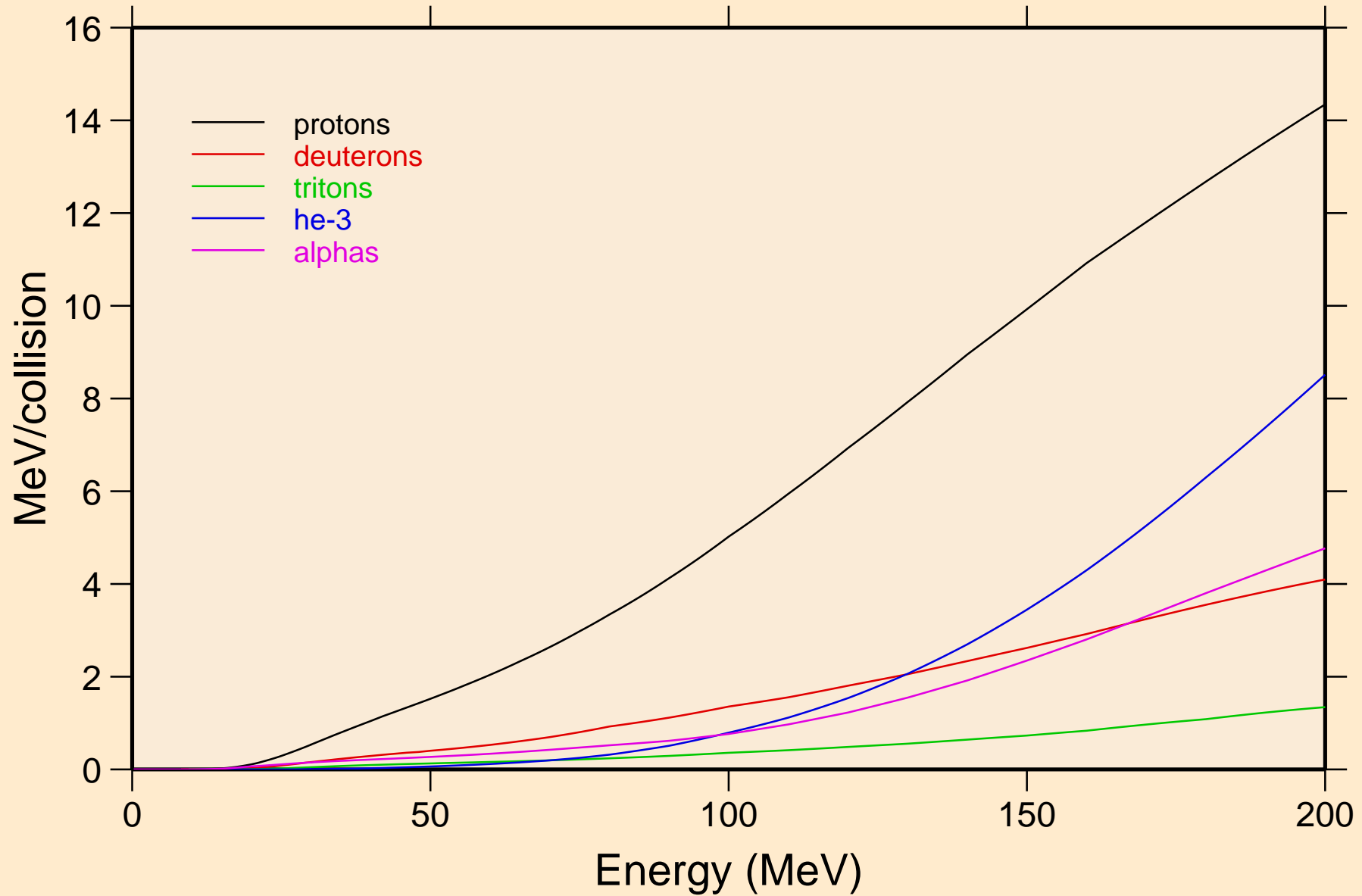


ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

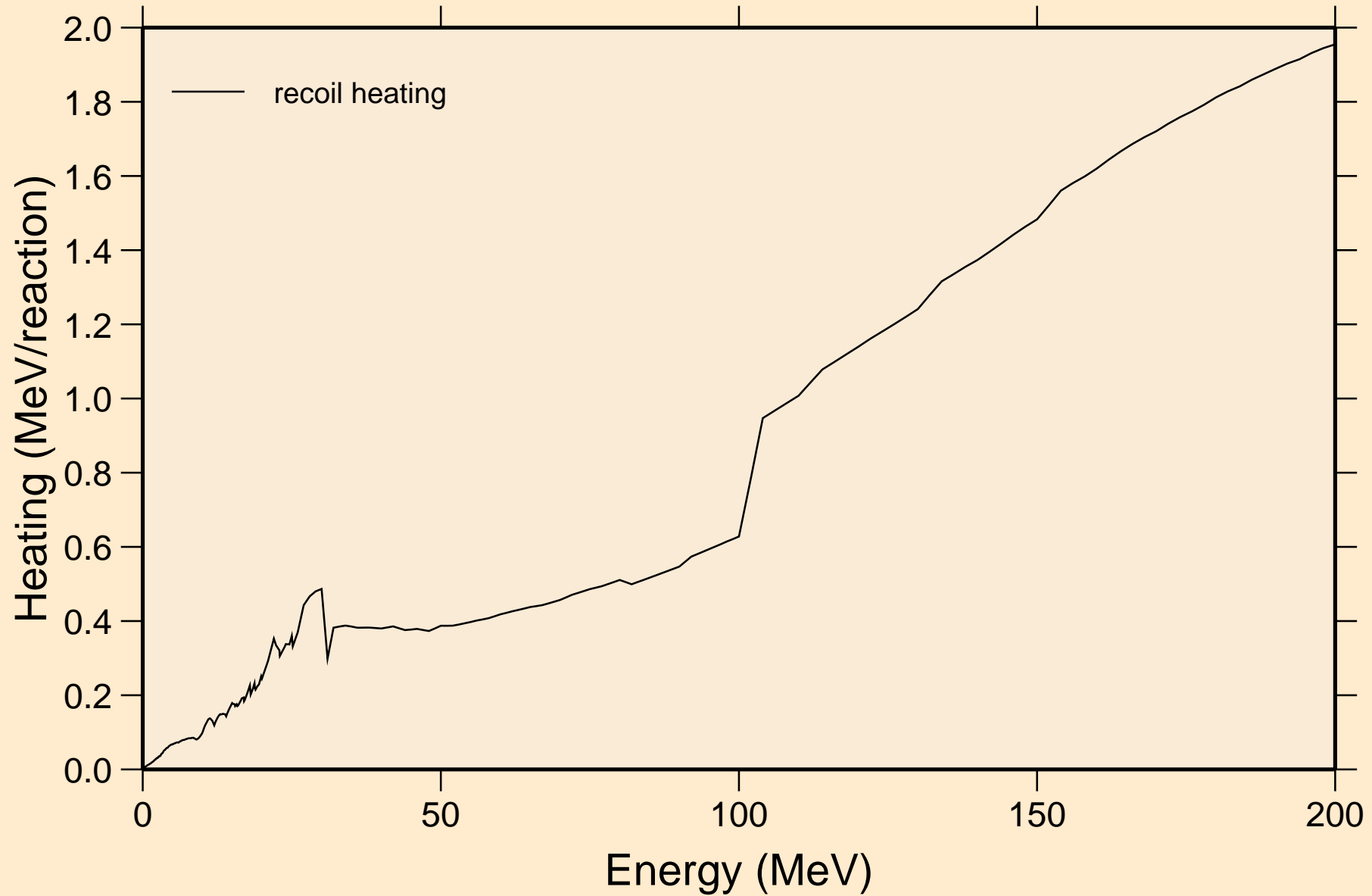


# ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

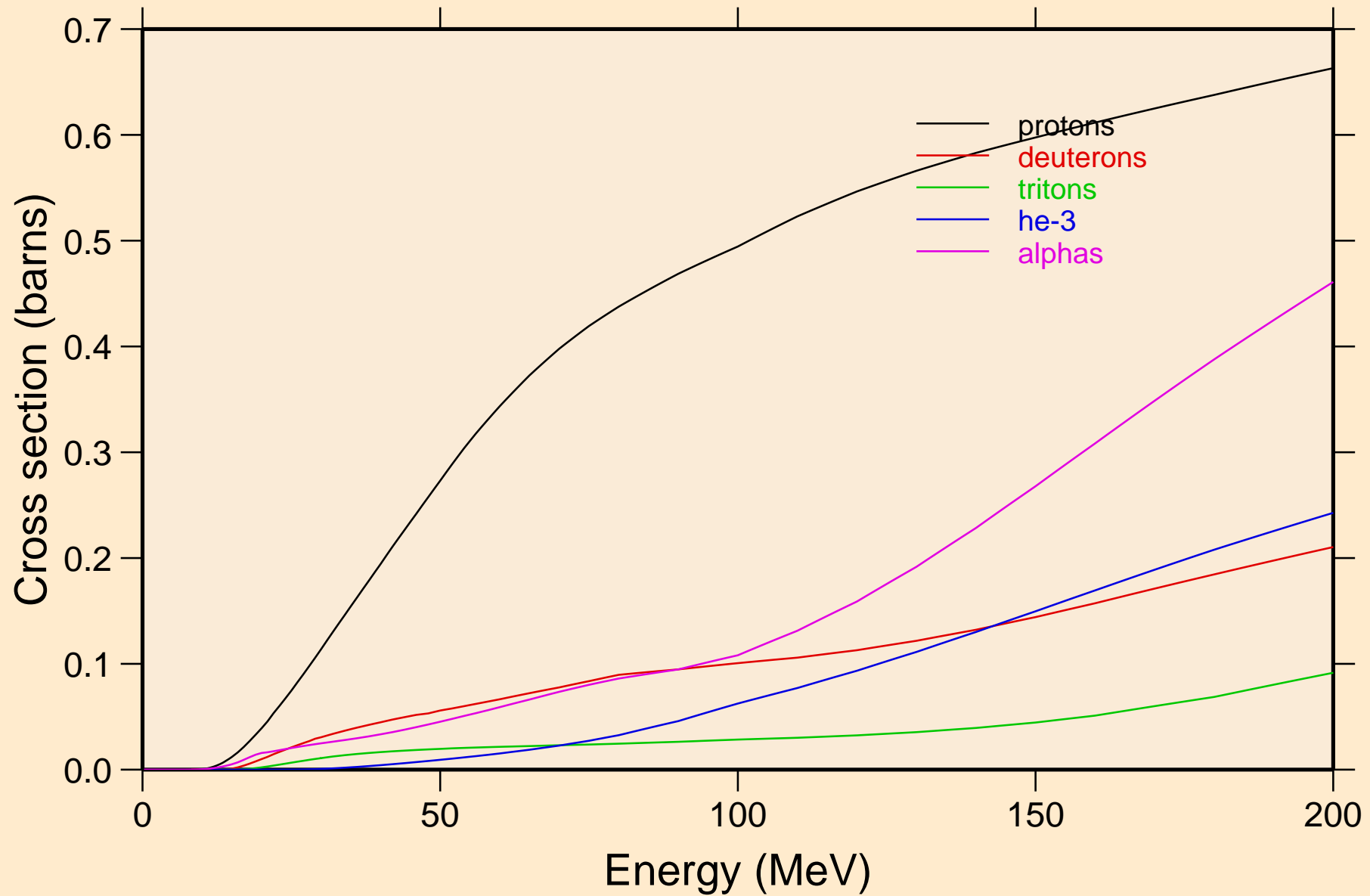


ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

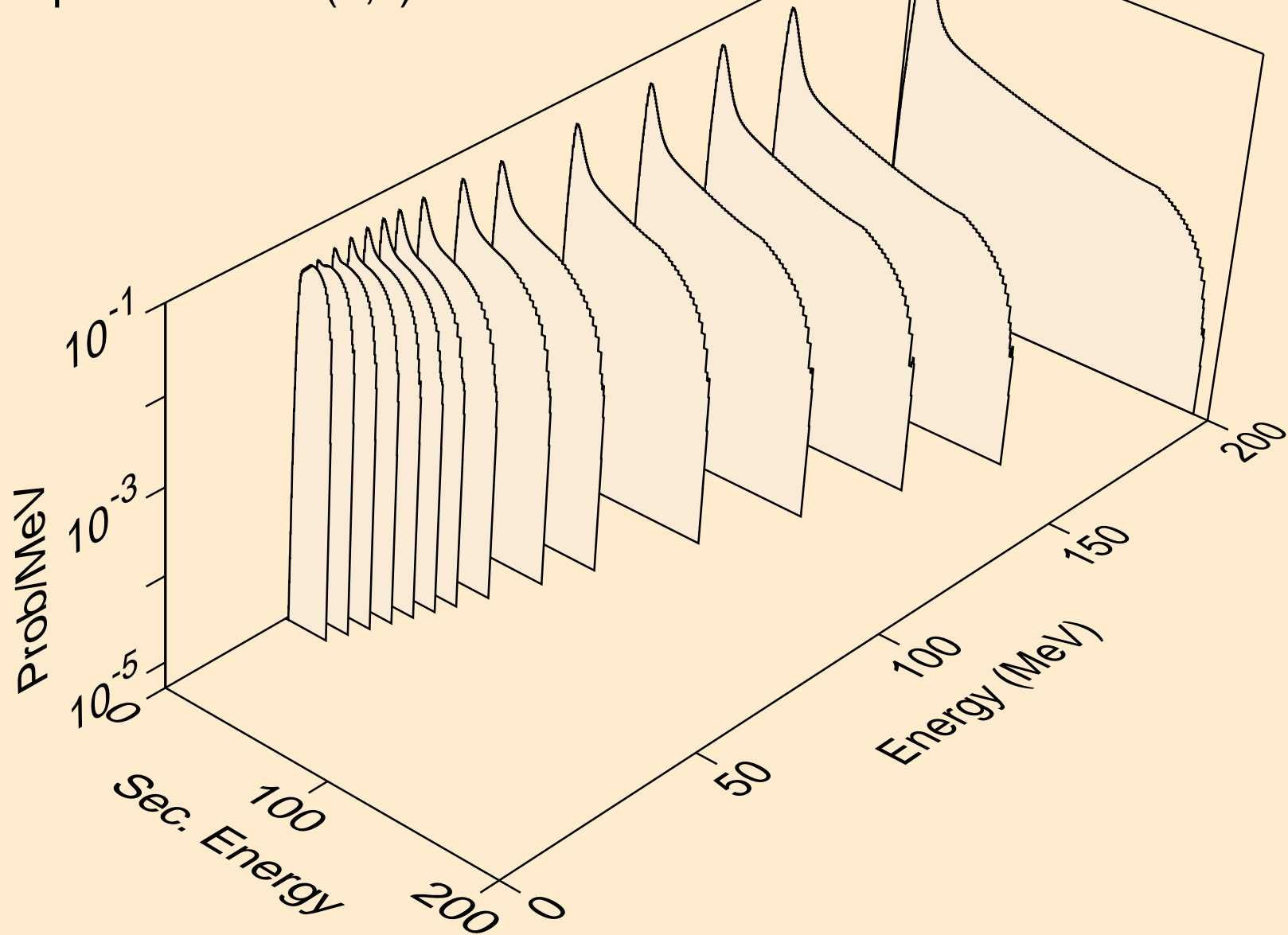


# ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

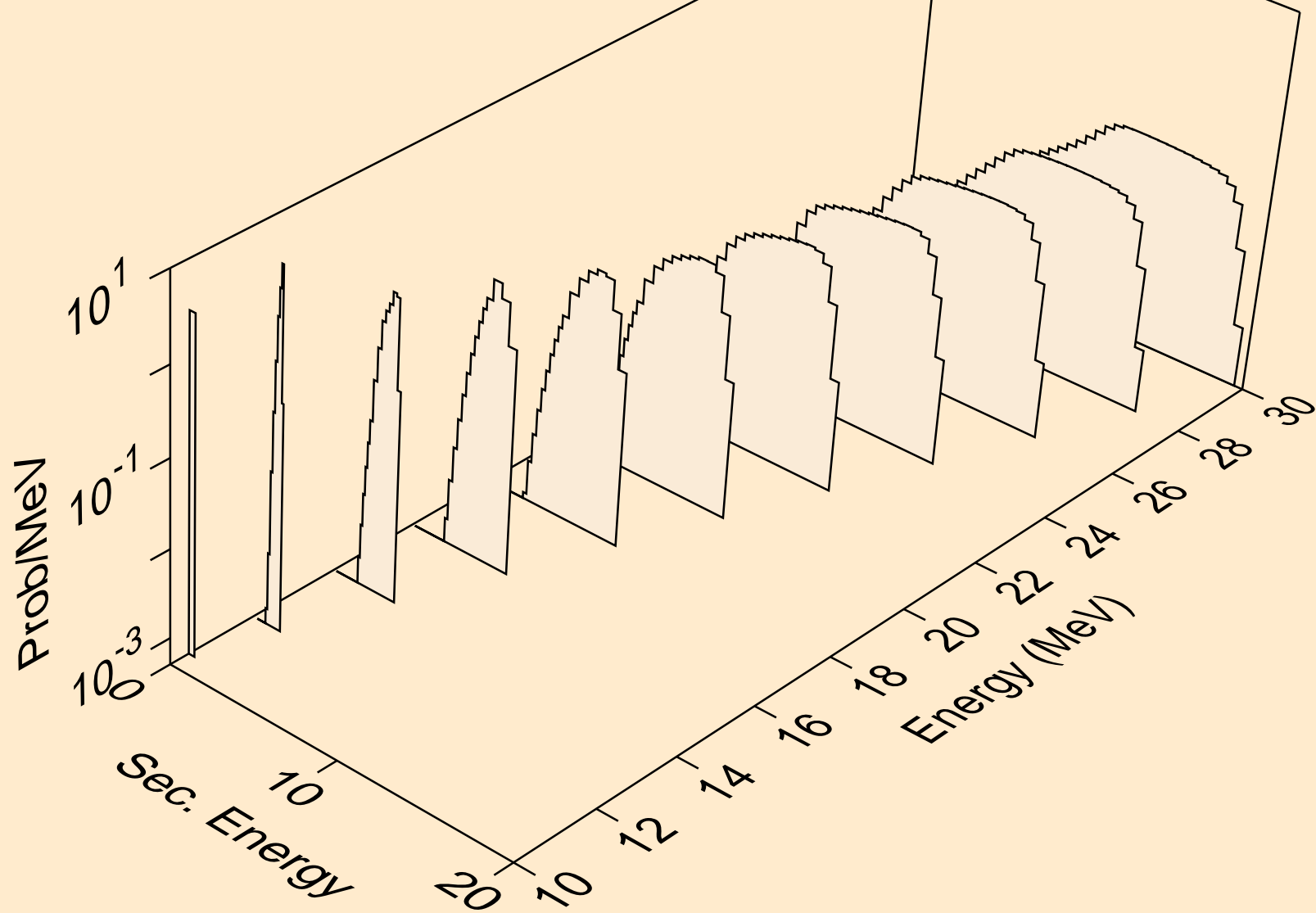
## Particle production cross sections



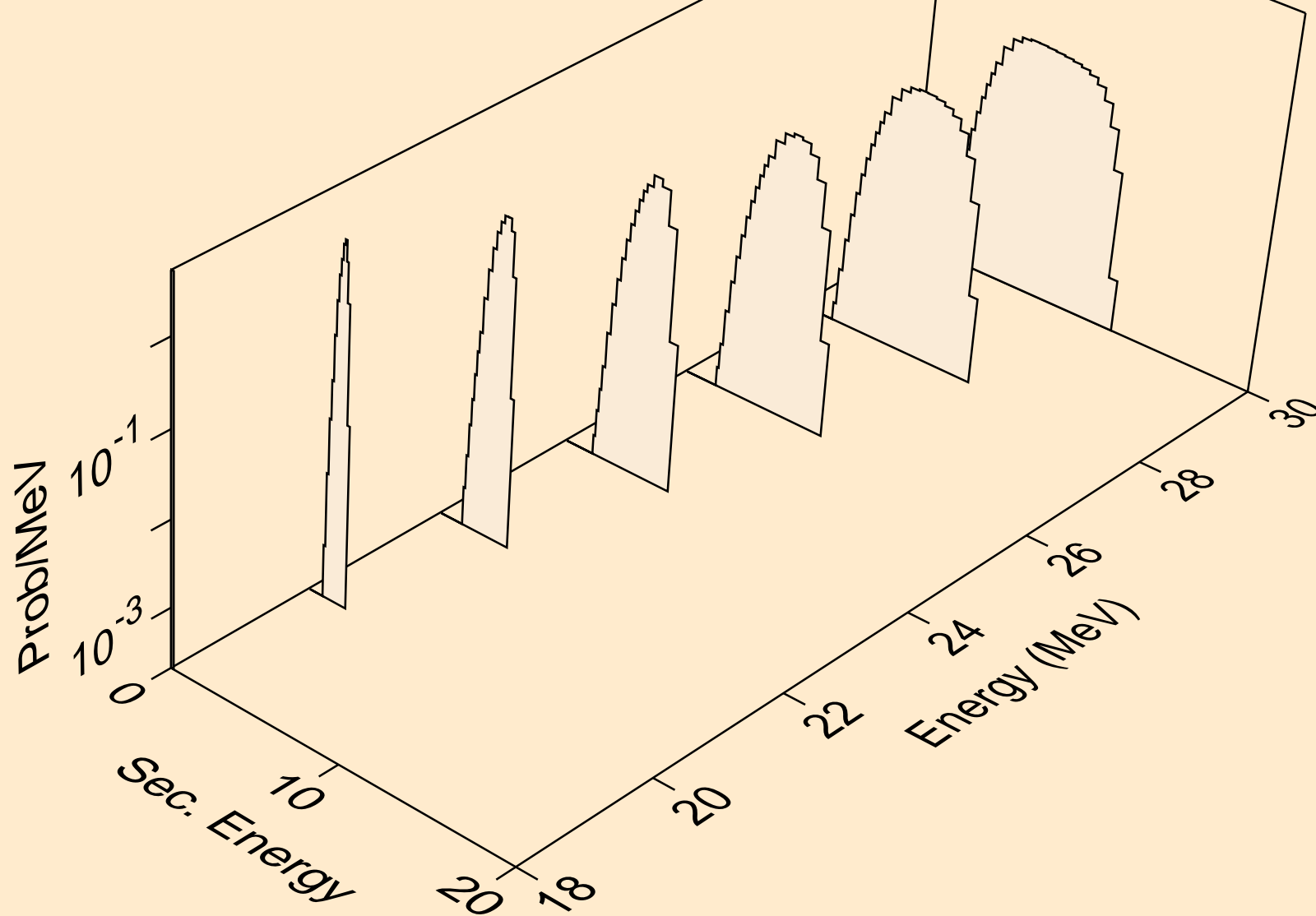
ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



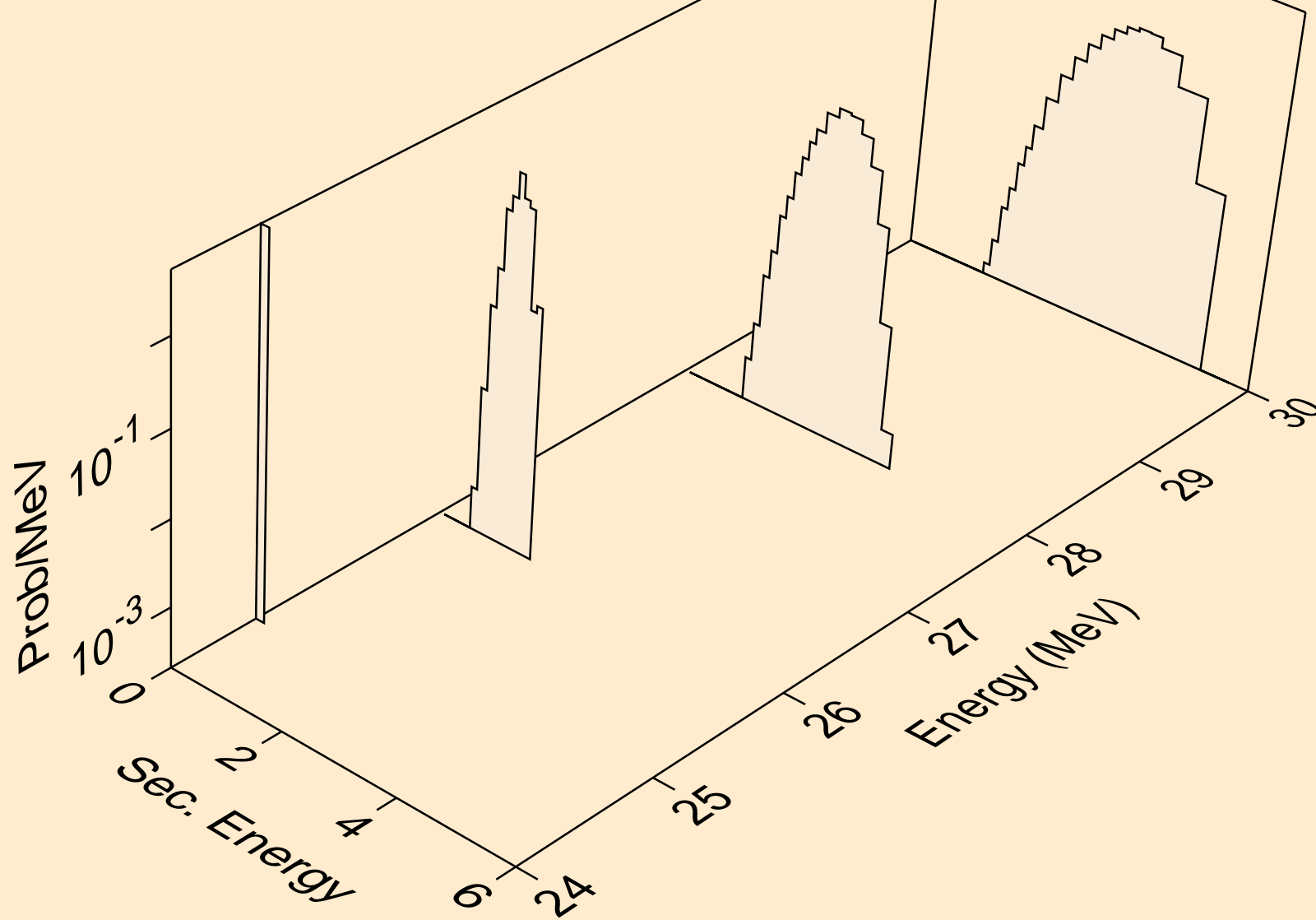
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protons from (n,n\*)p



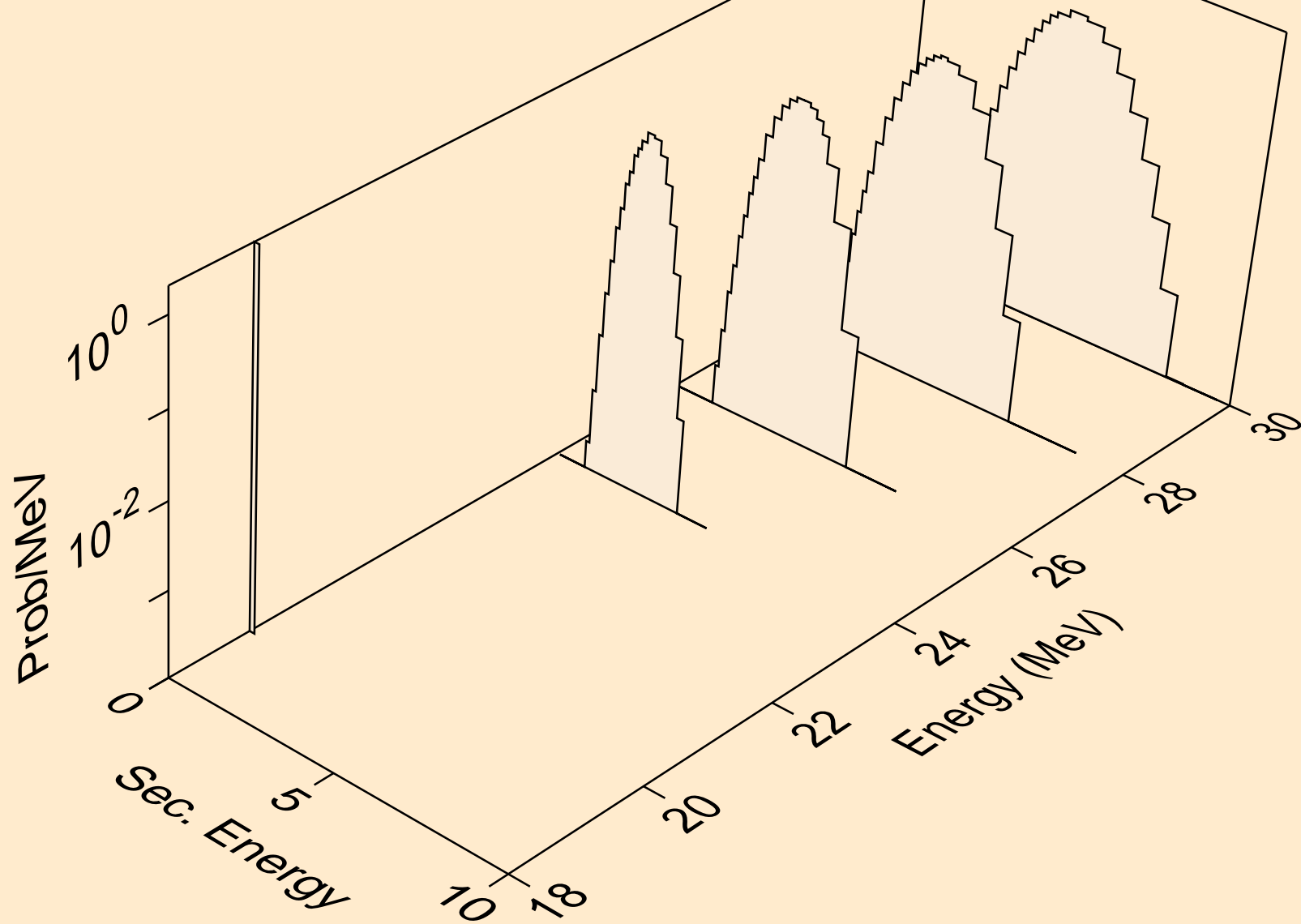
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protons from (n,2np)



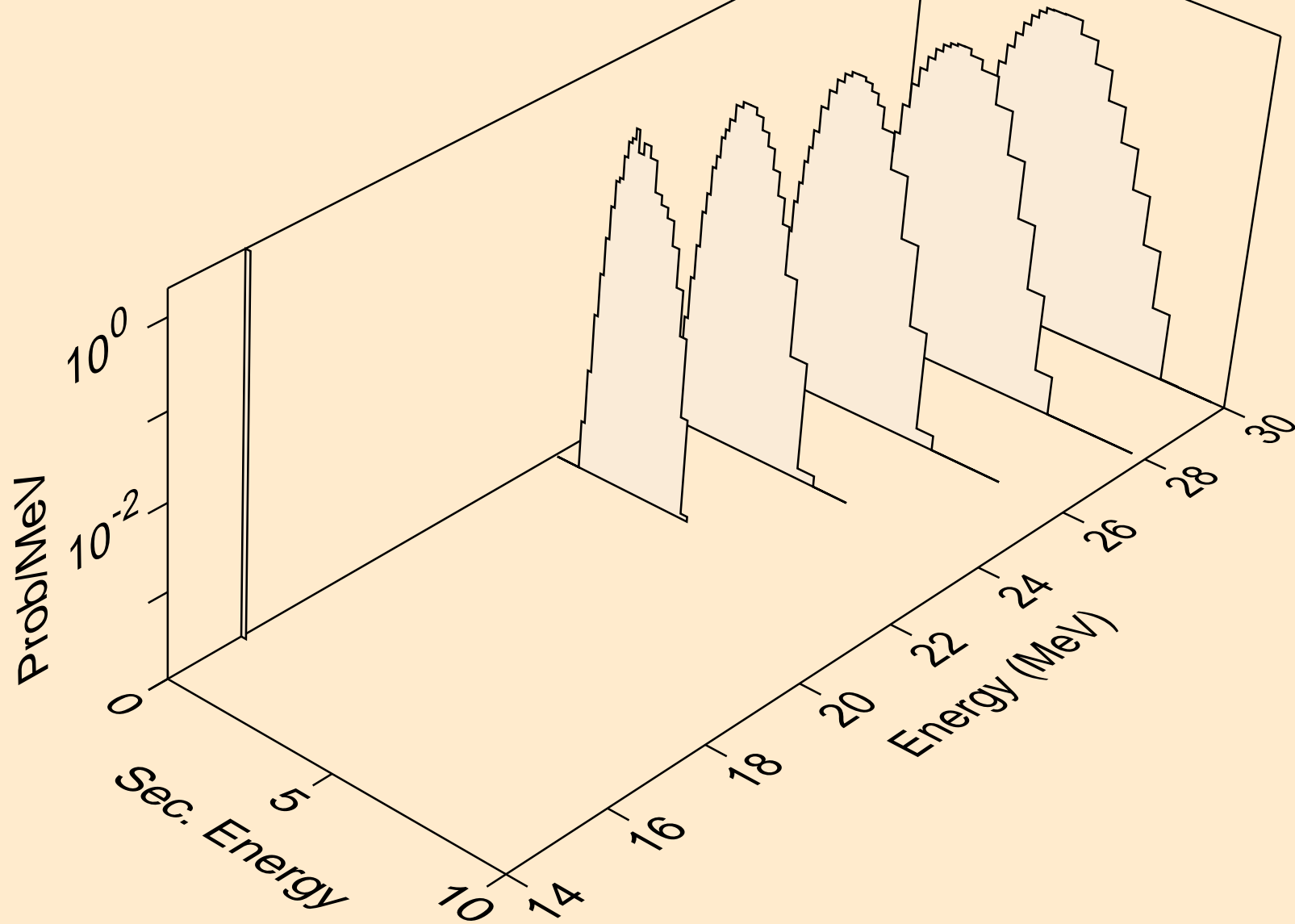
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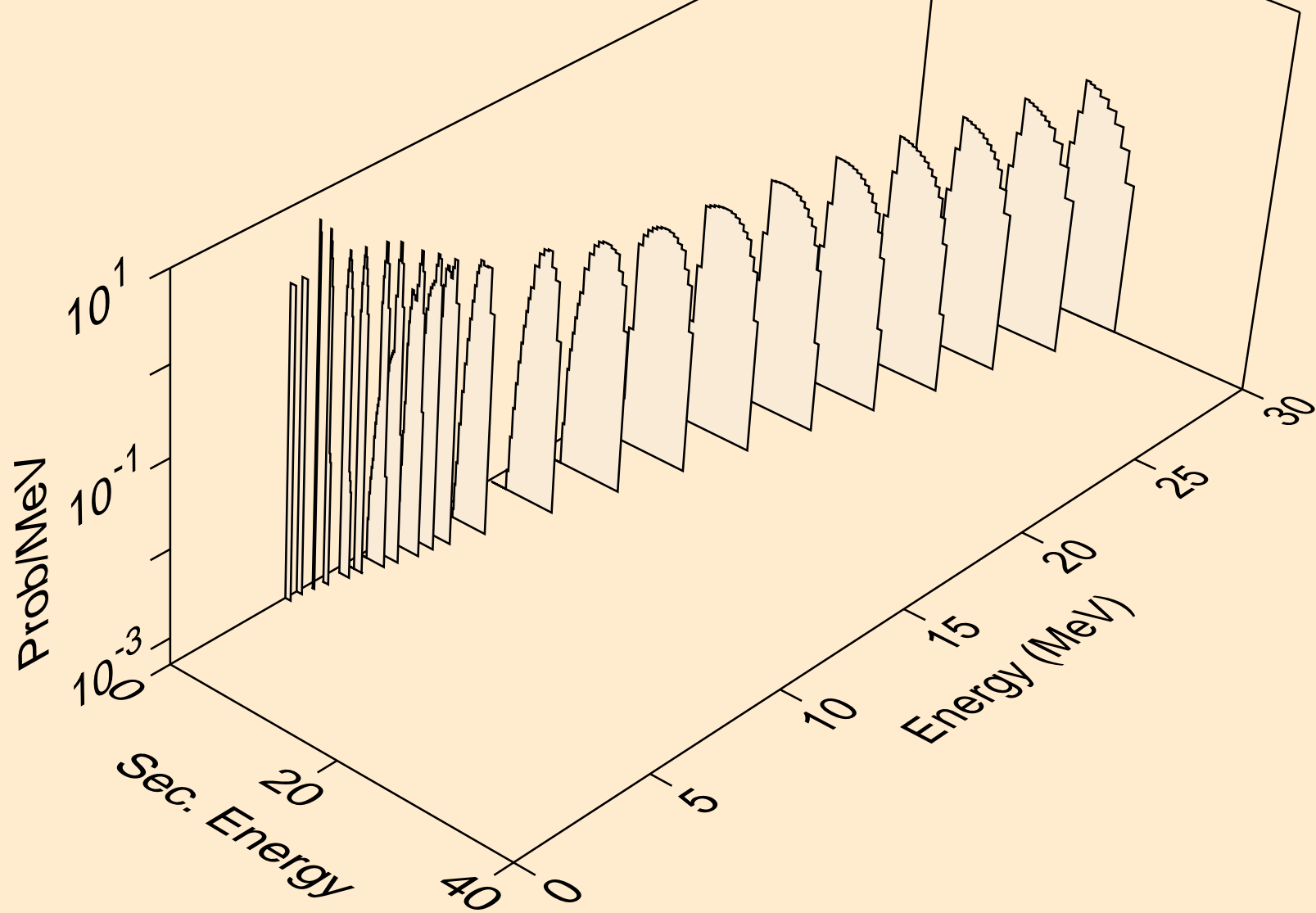
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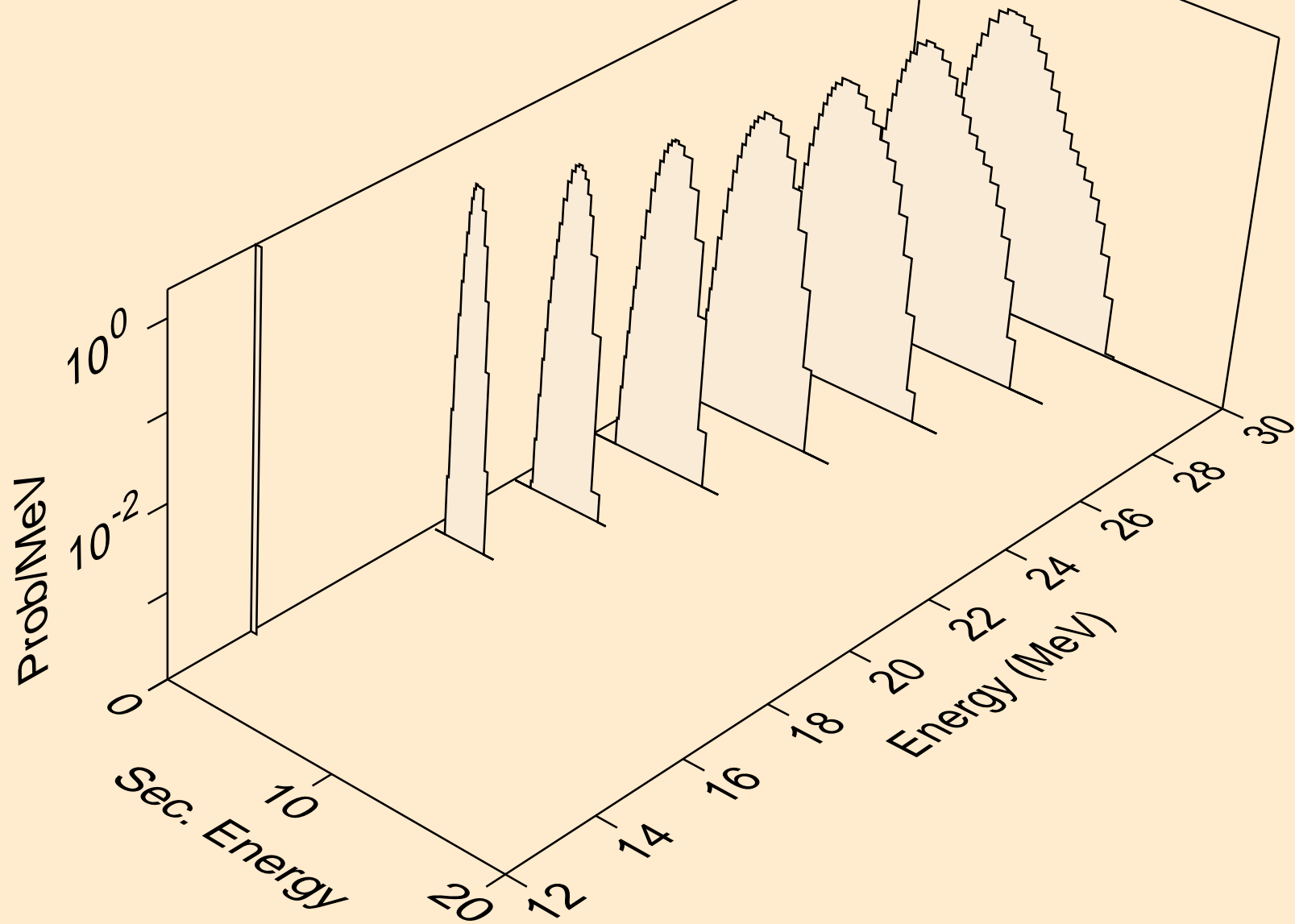
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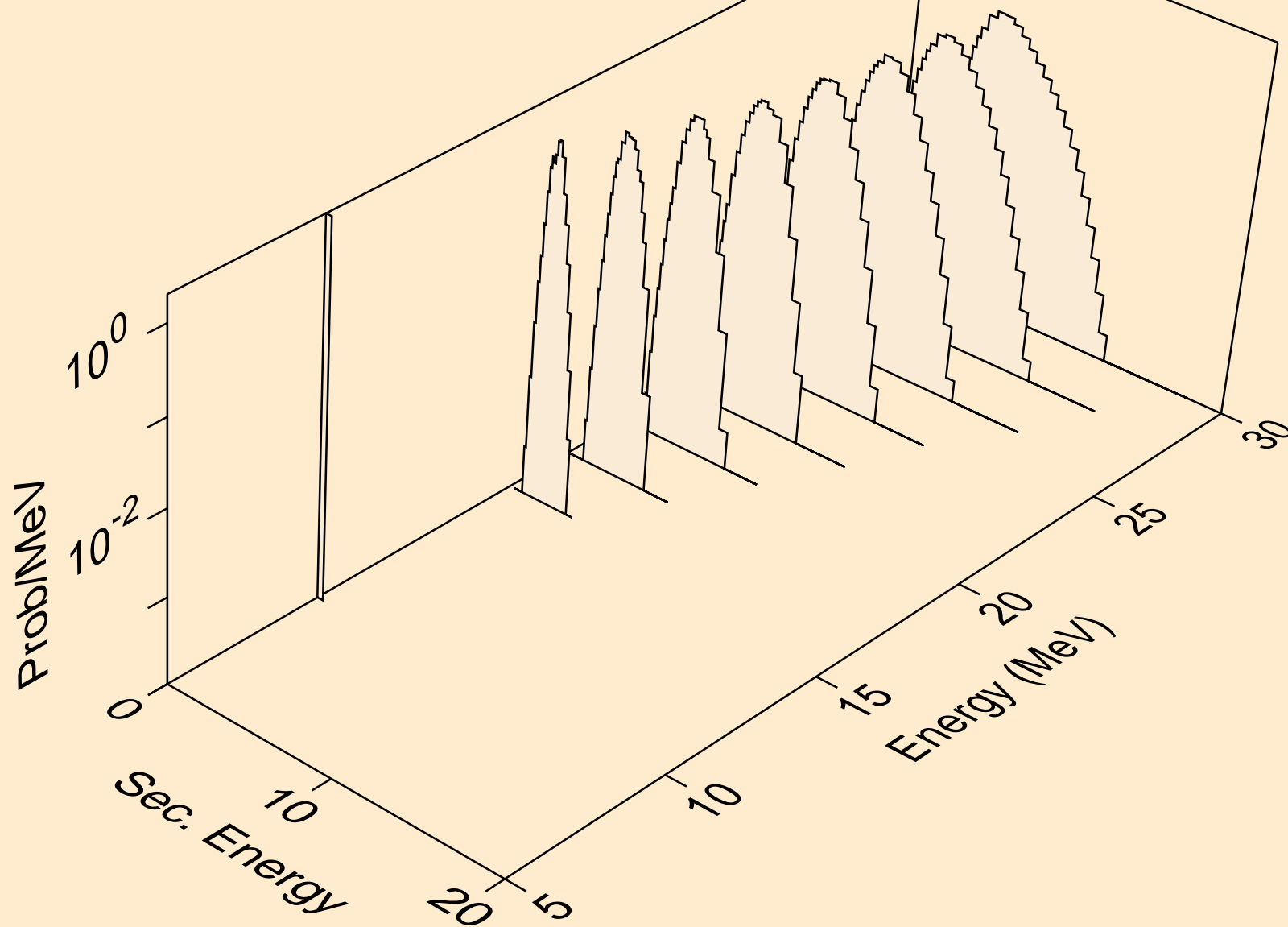
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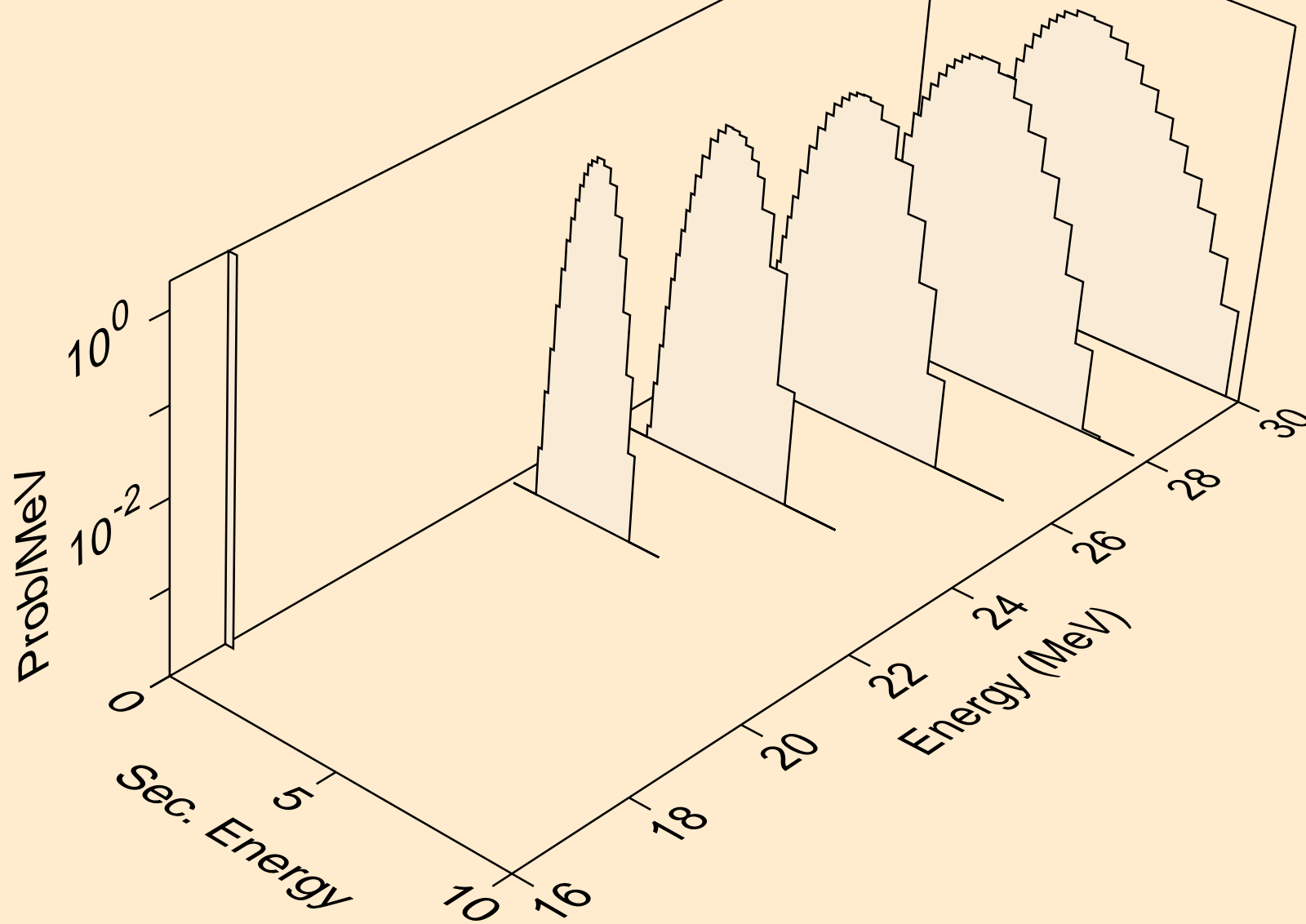
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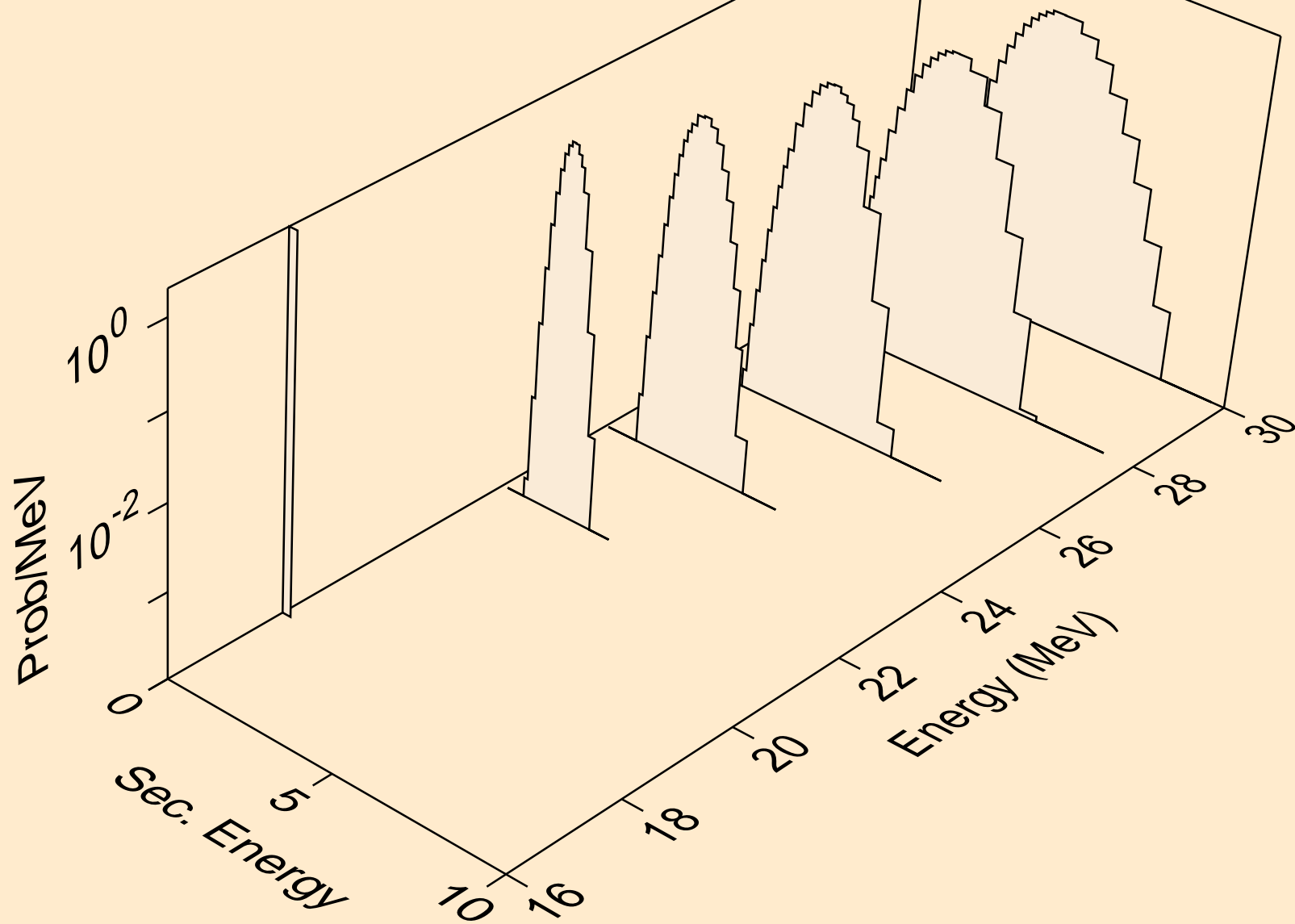
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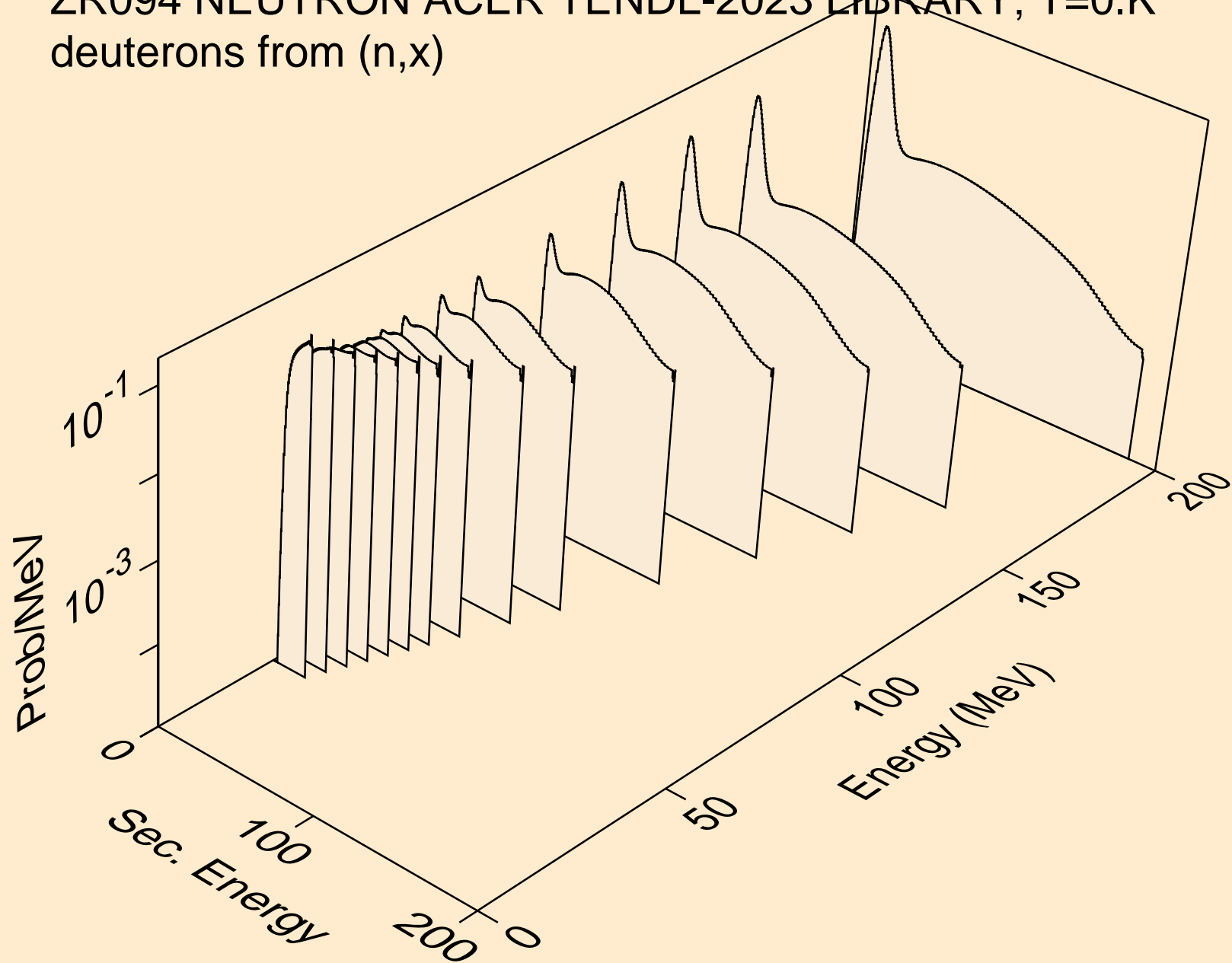
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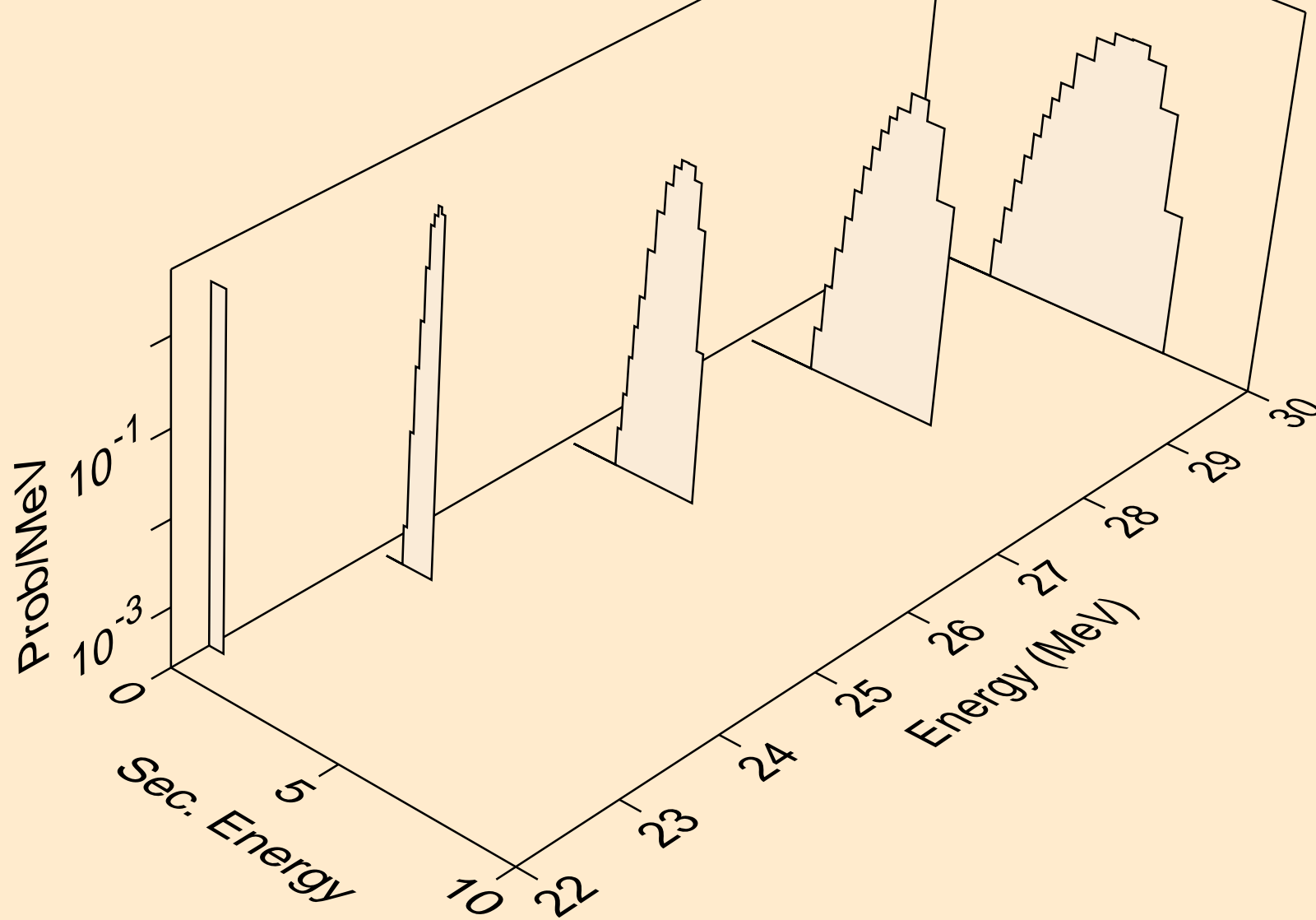
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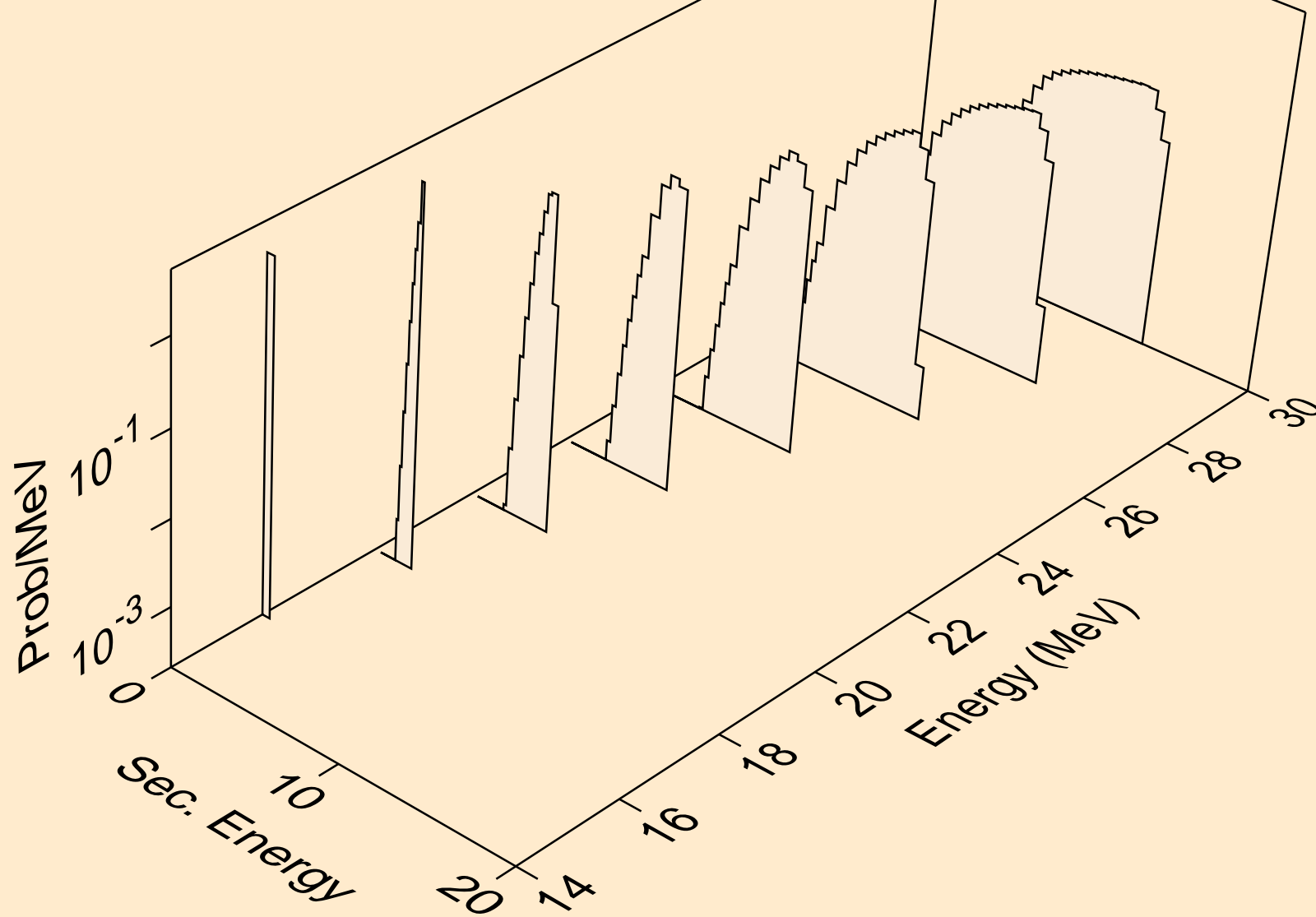
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deuterons from (n,x)



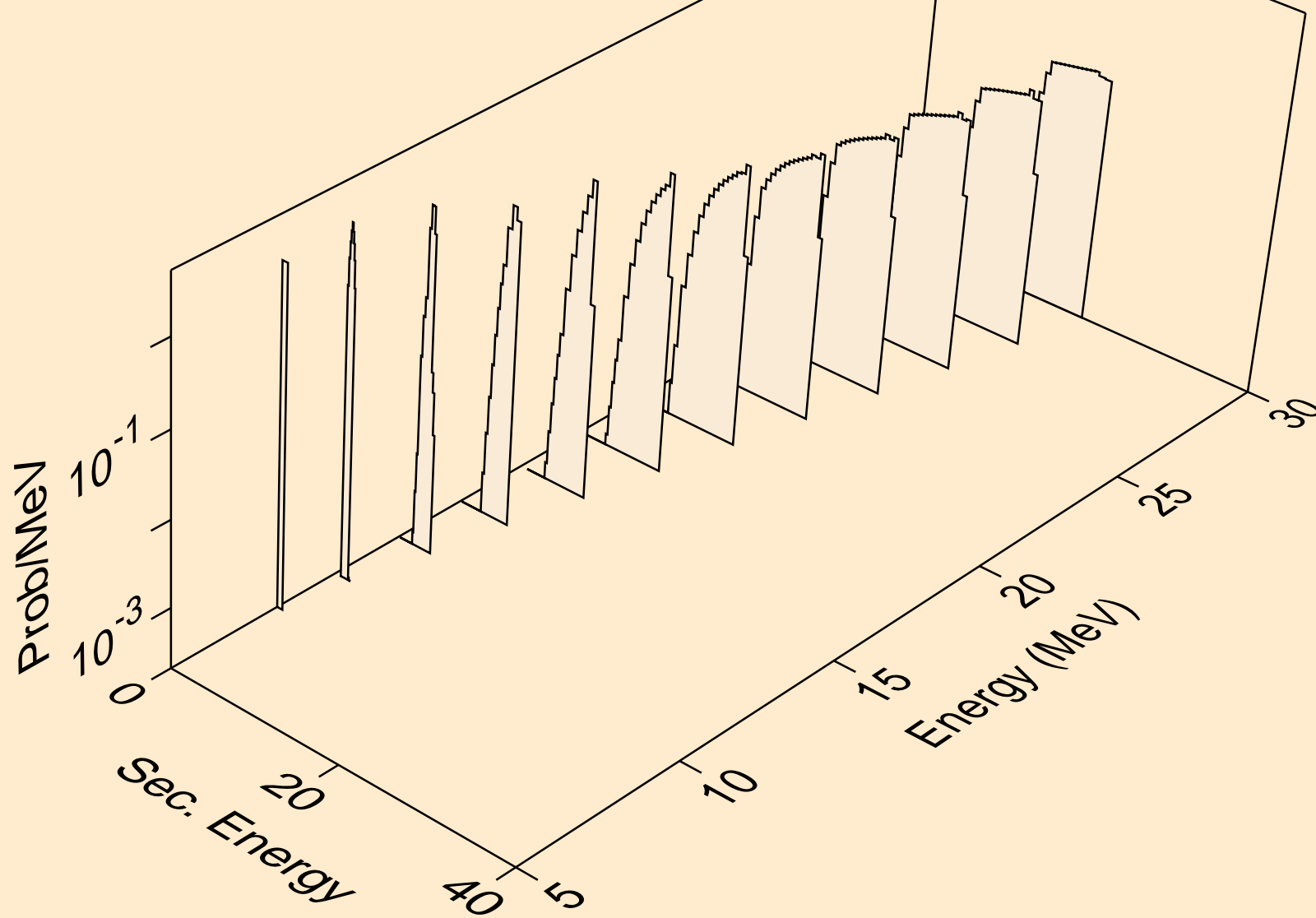
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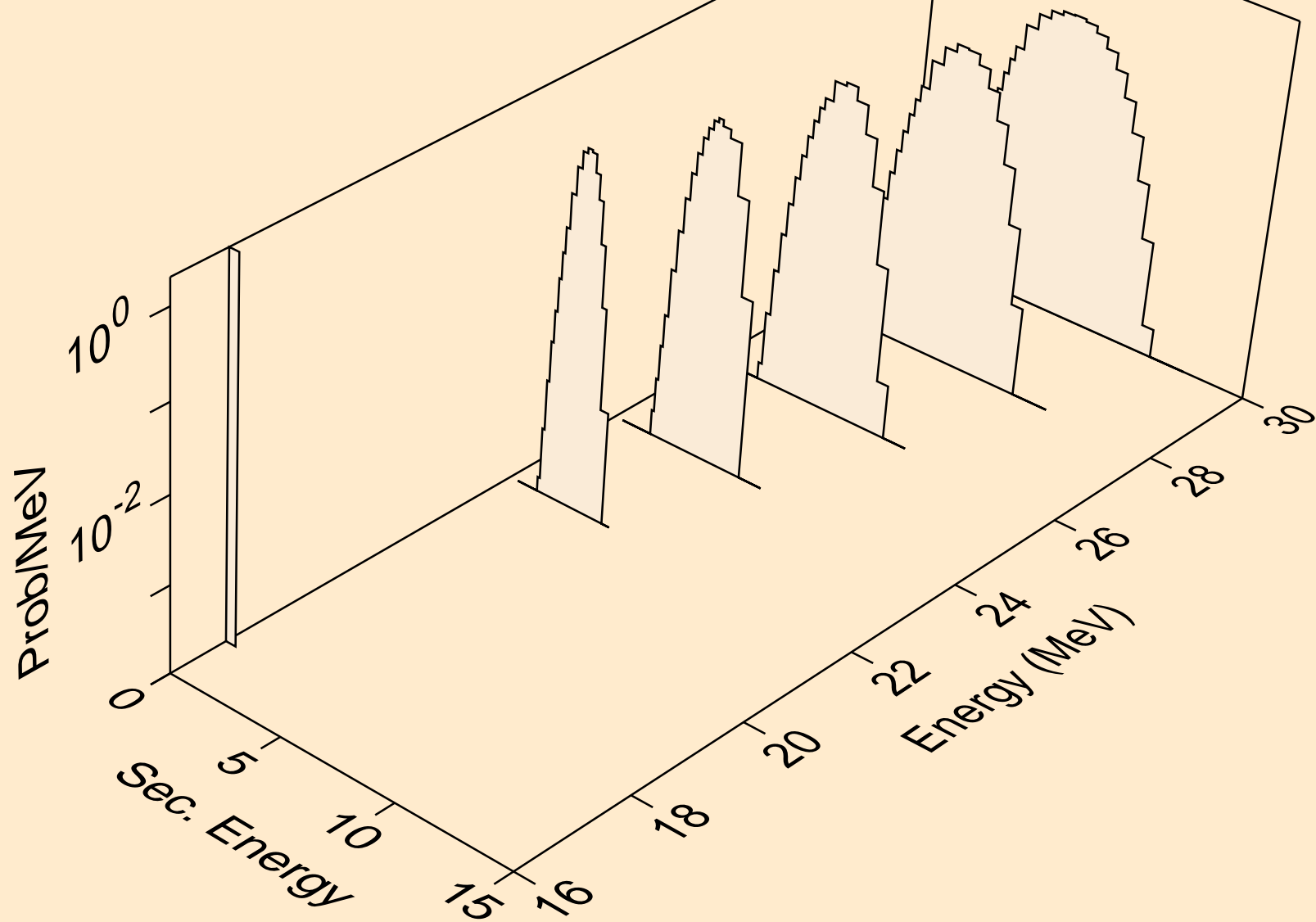
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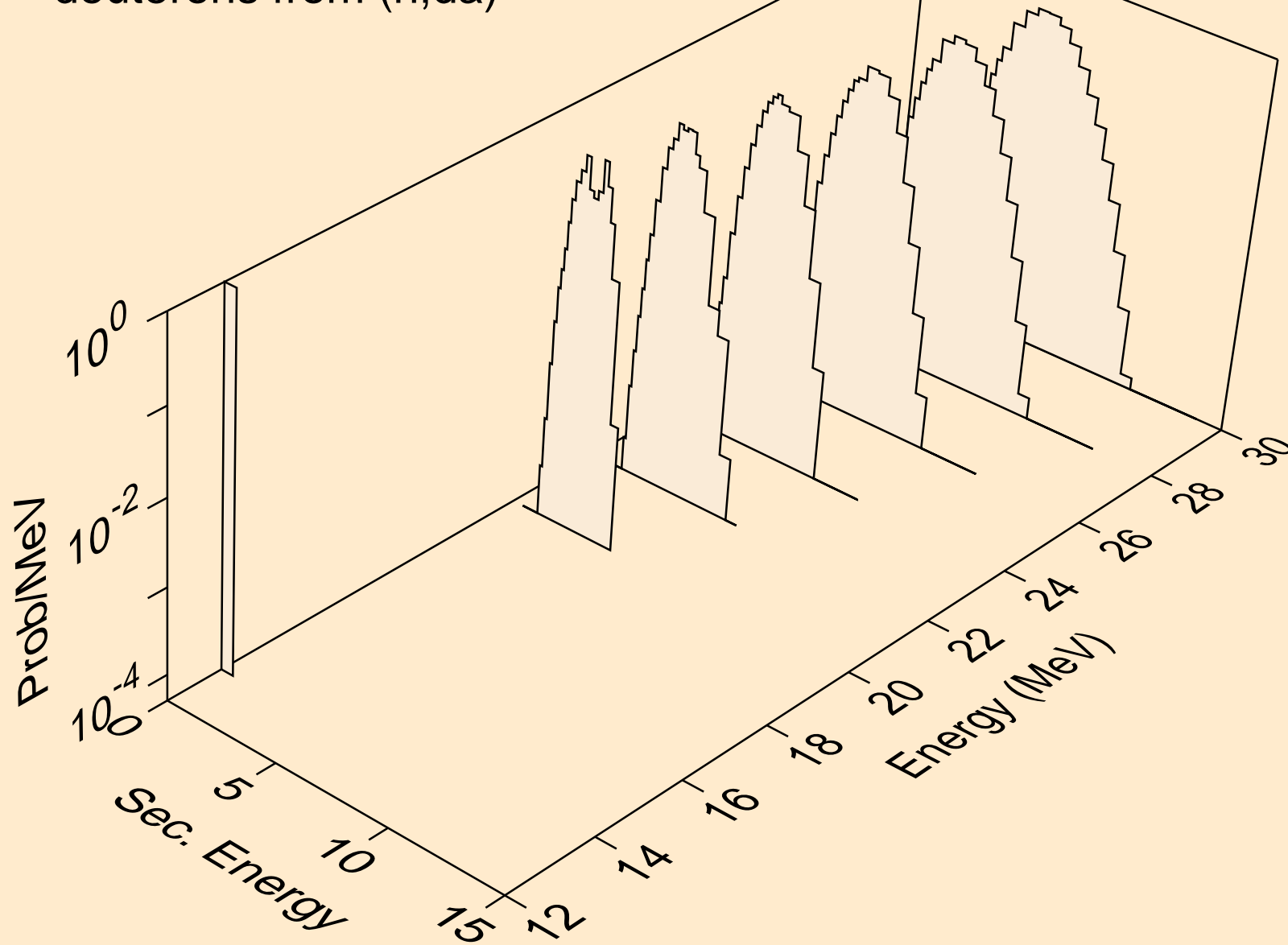
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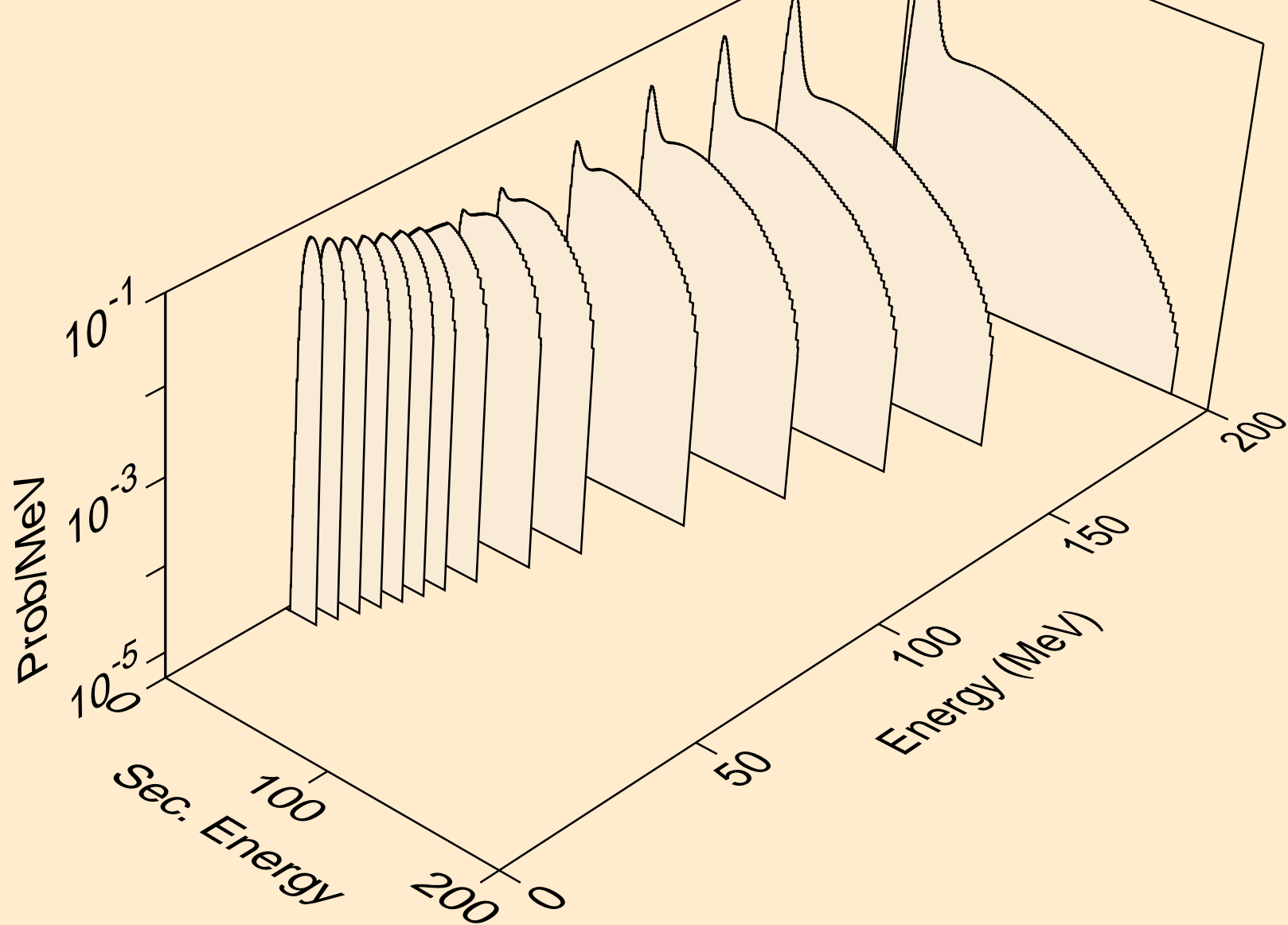
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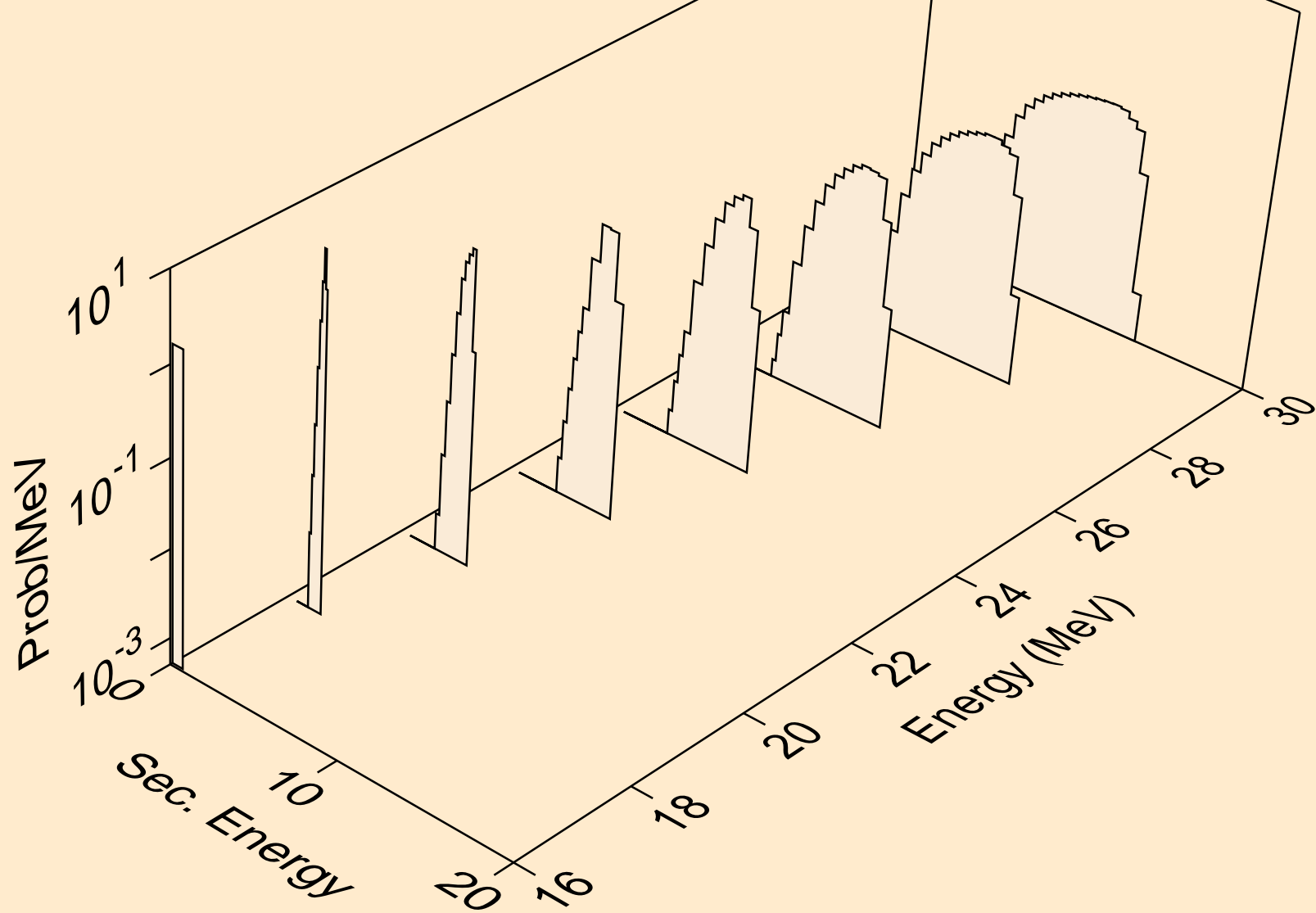
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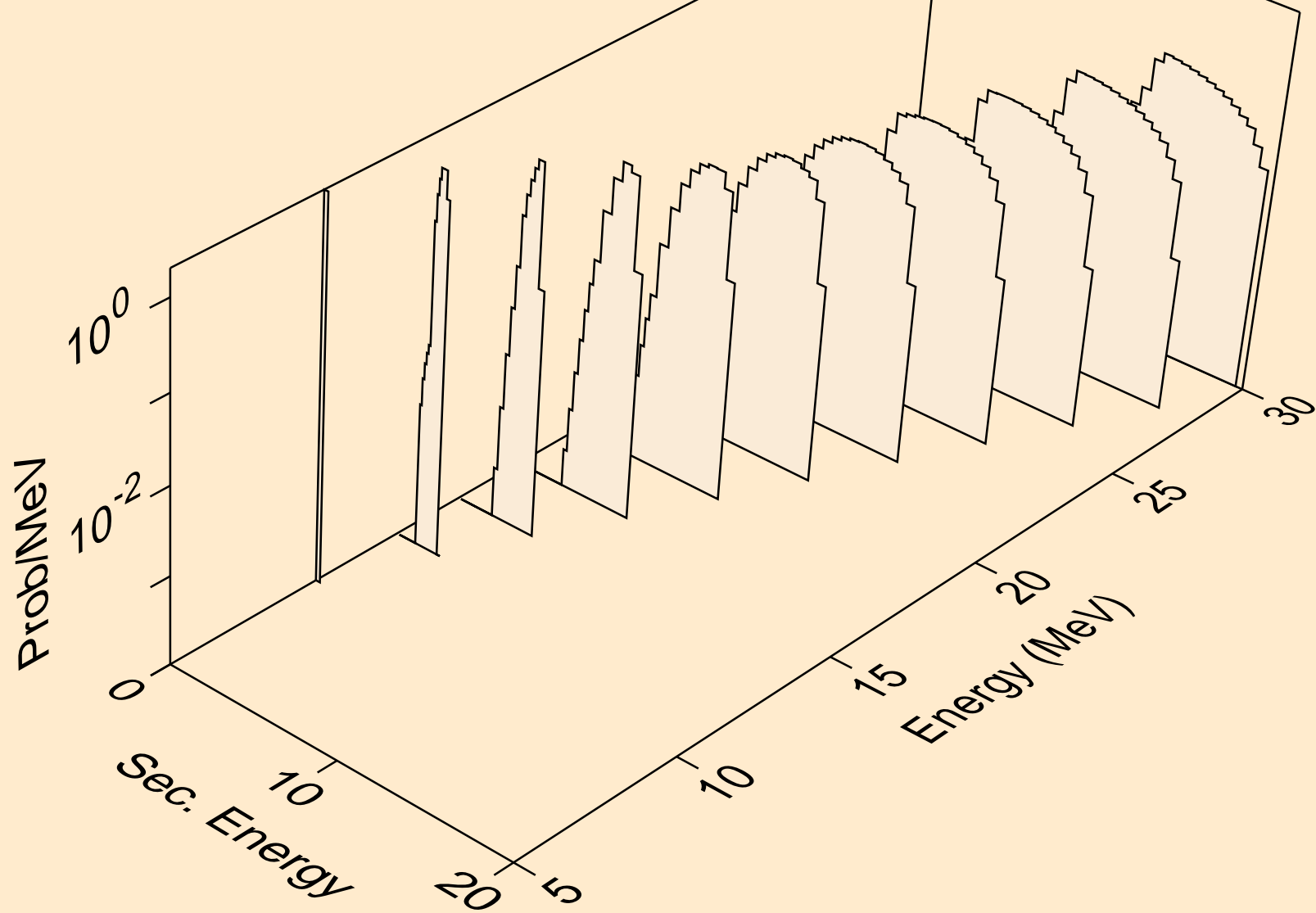
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tritons from (n,x)



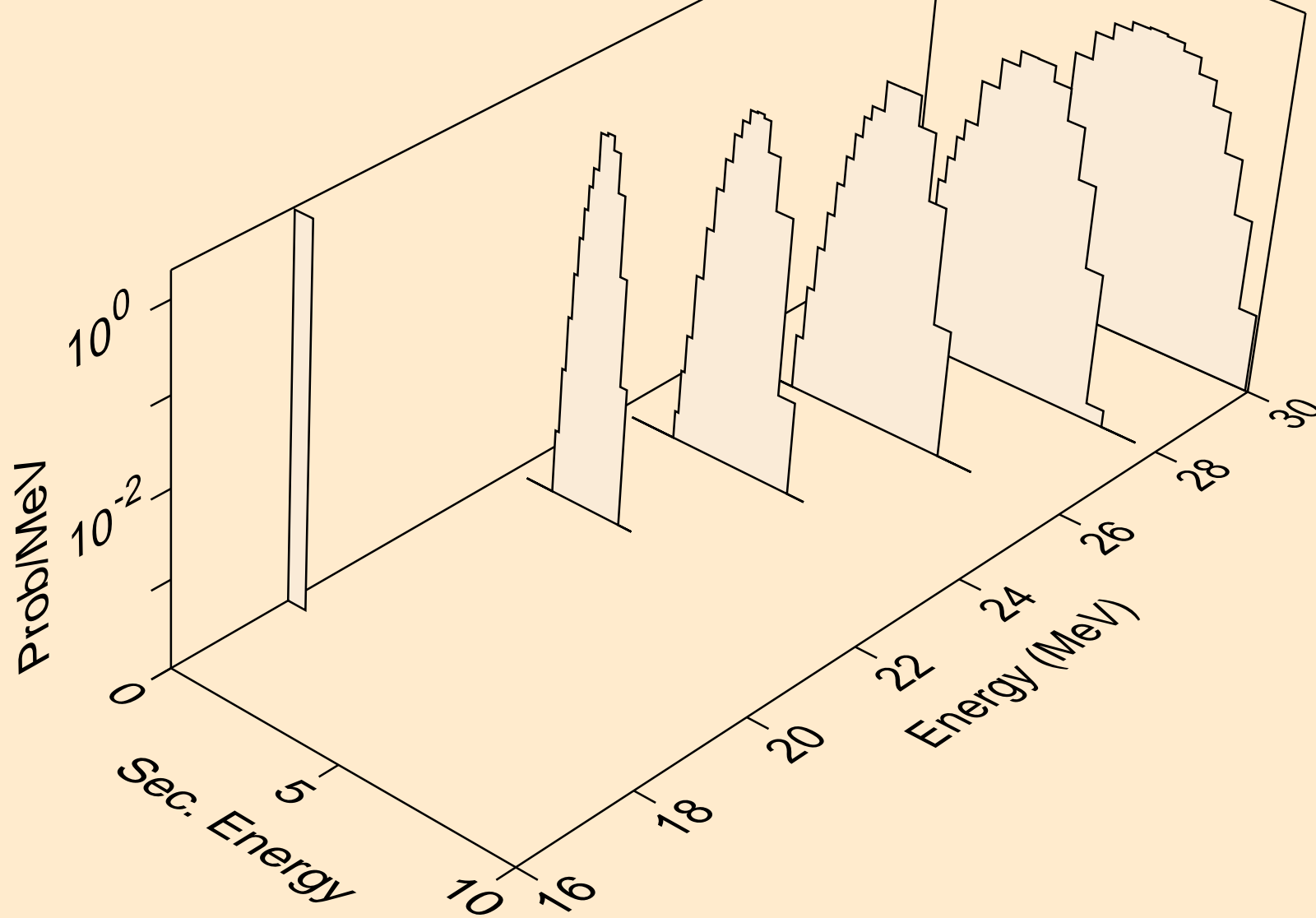
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tritons from (n,n\*)t



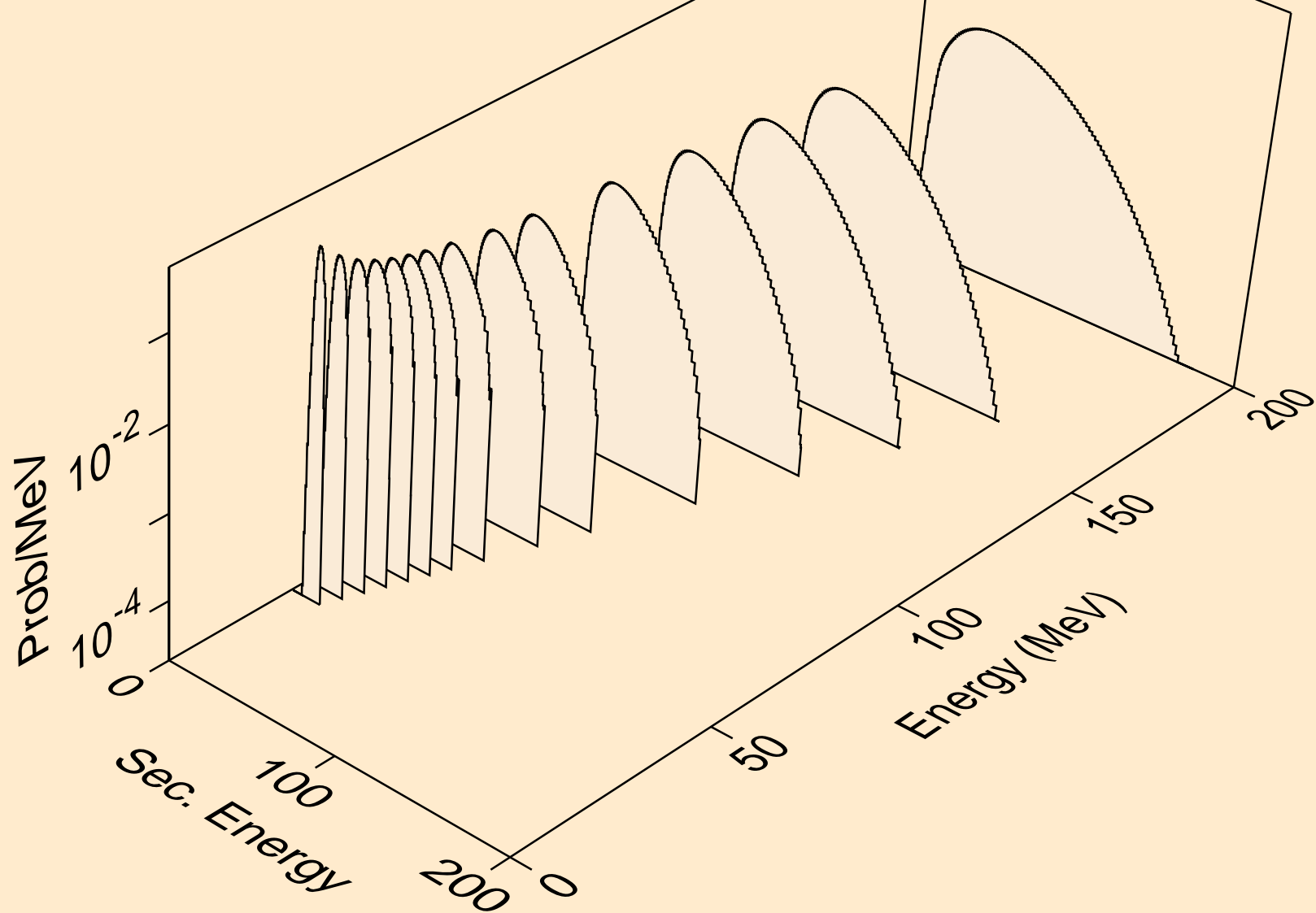
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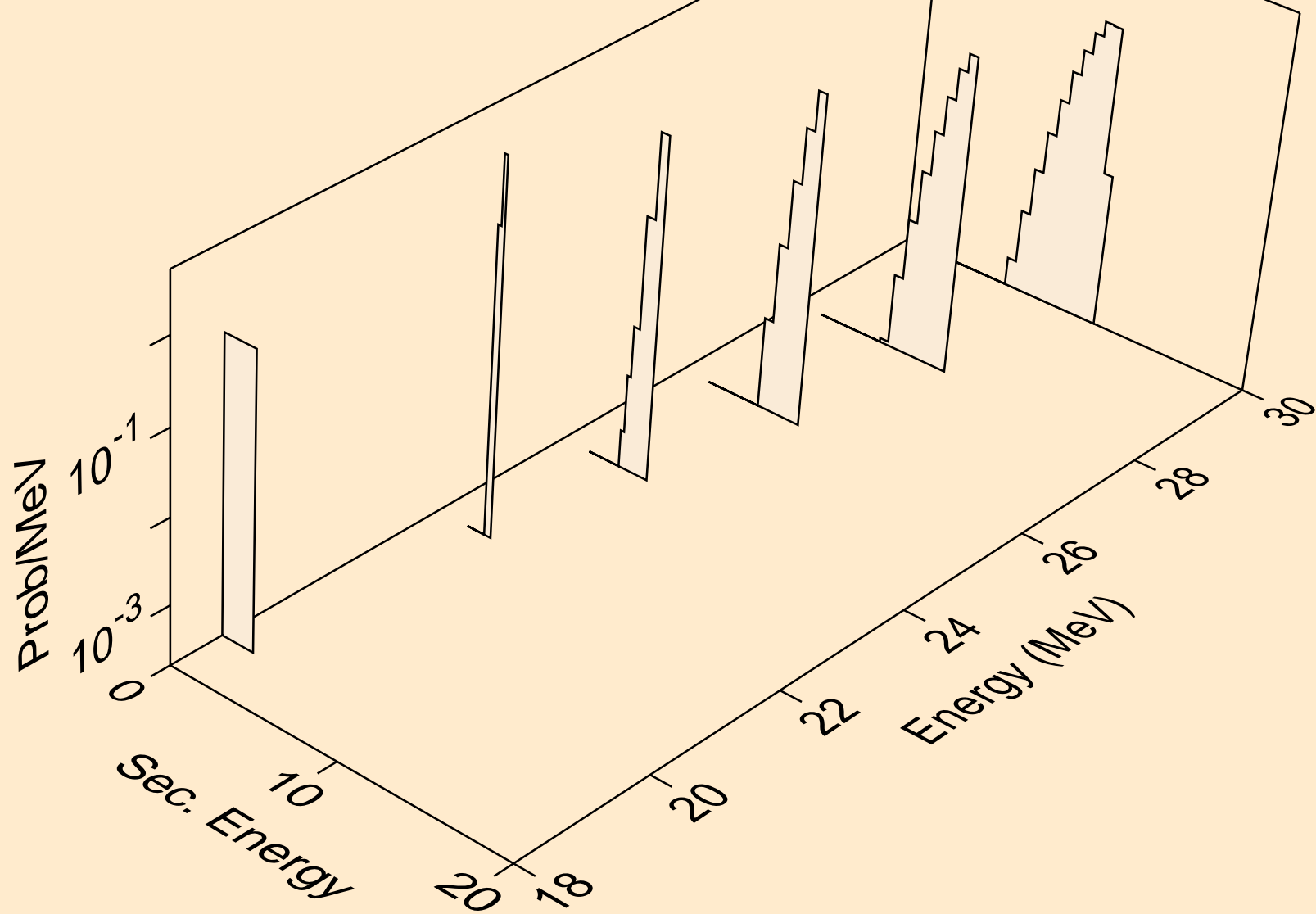
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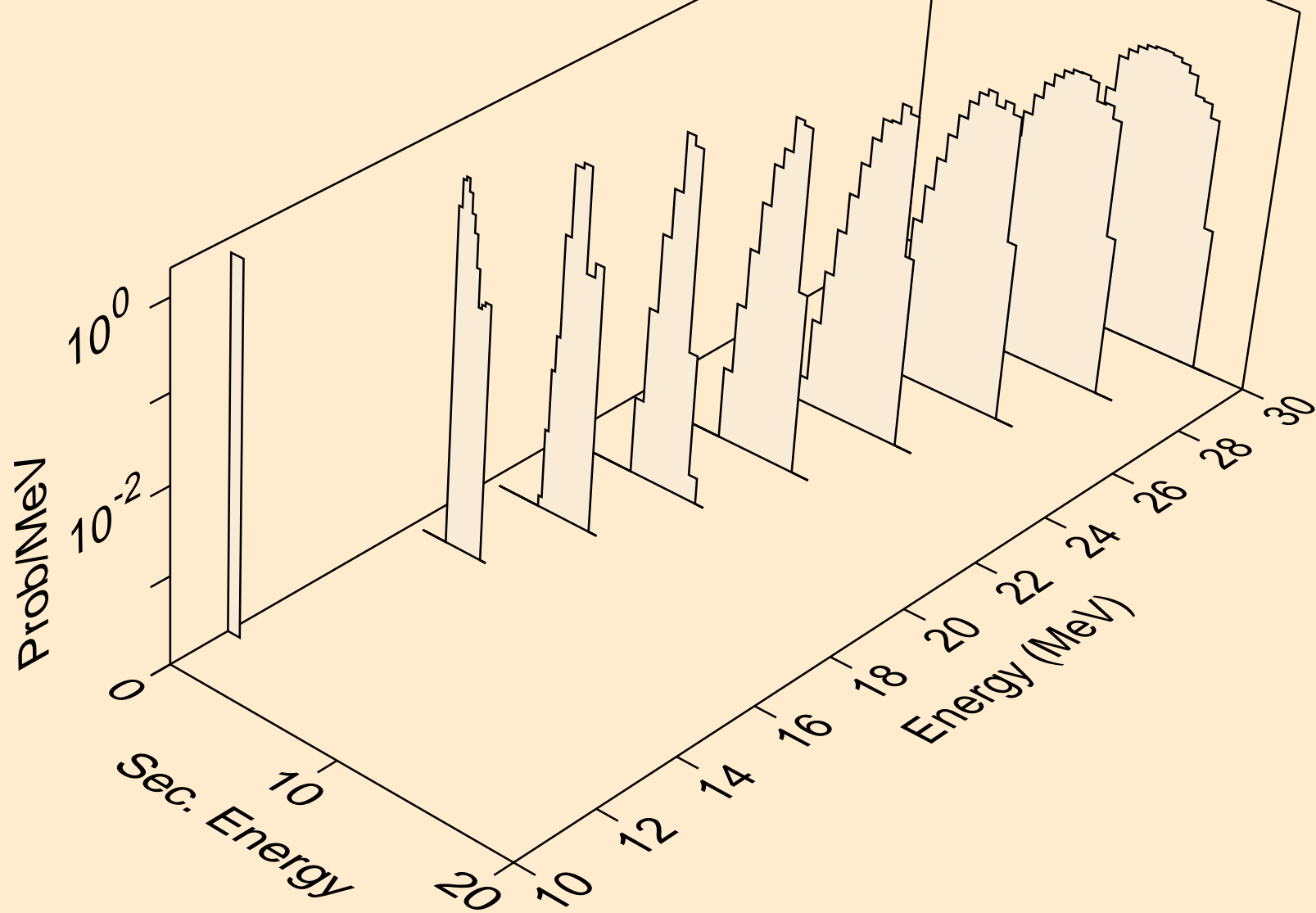
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he3s from (n,x)



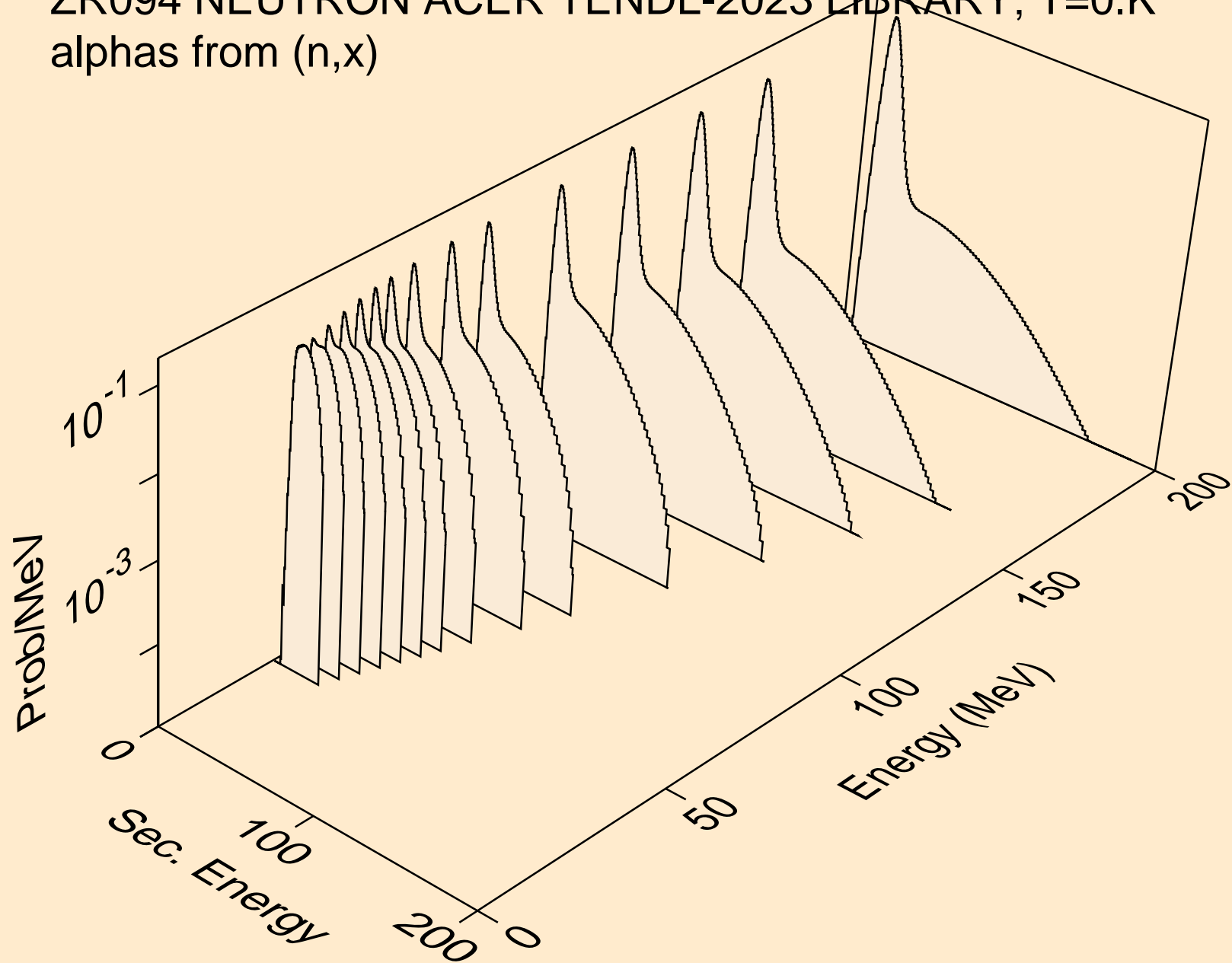
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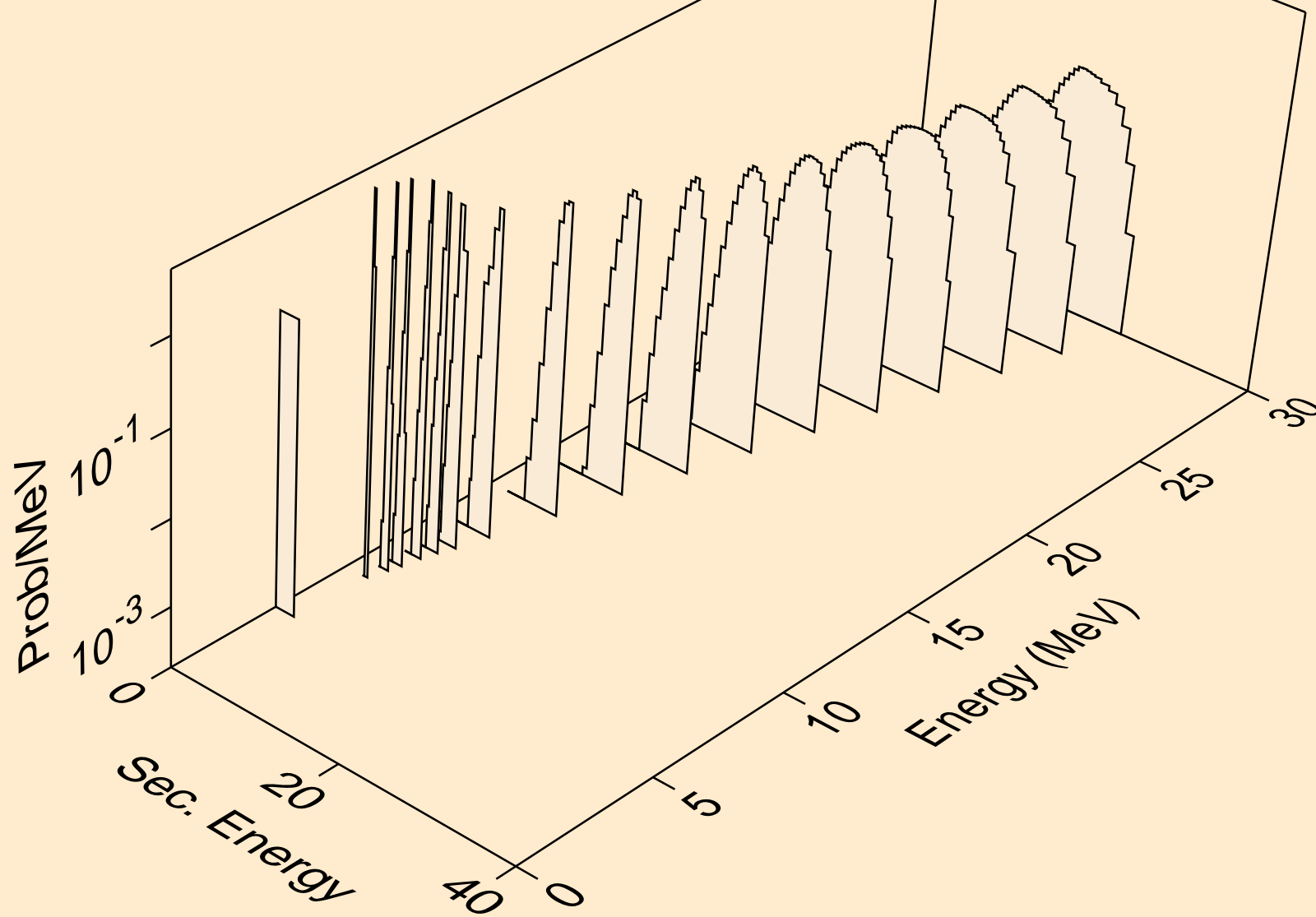
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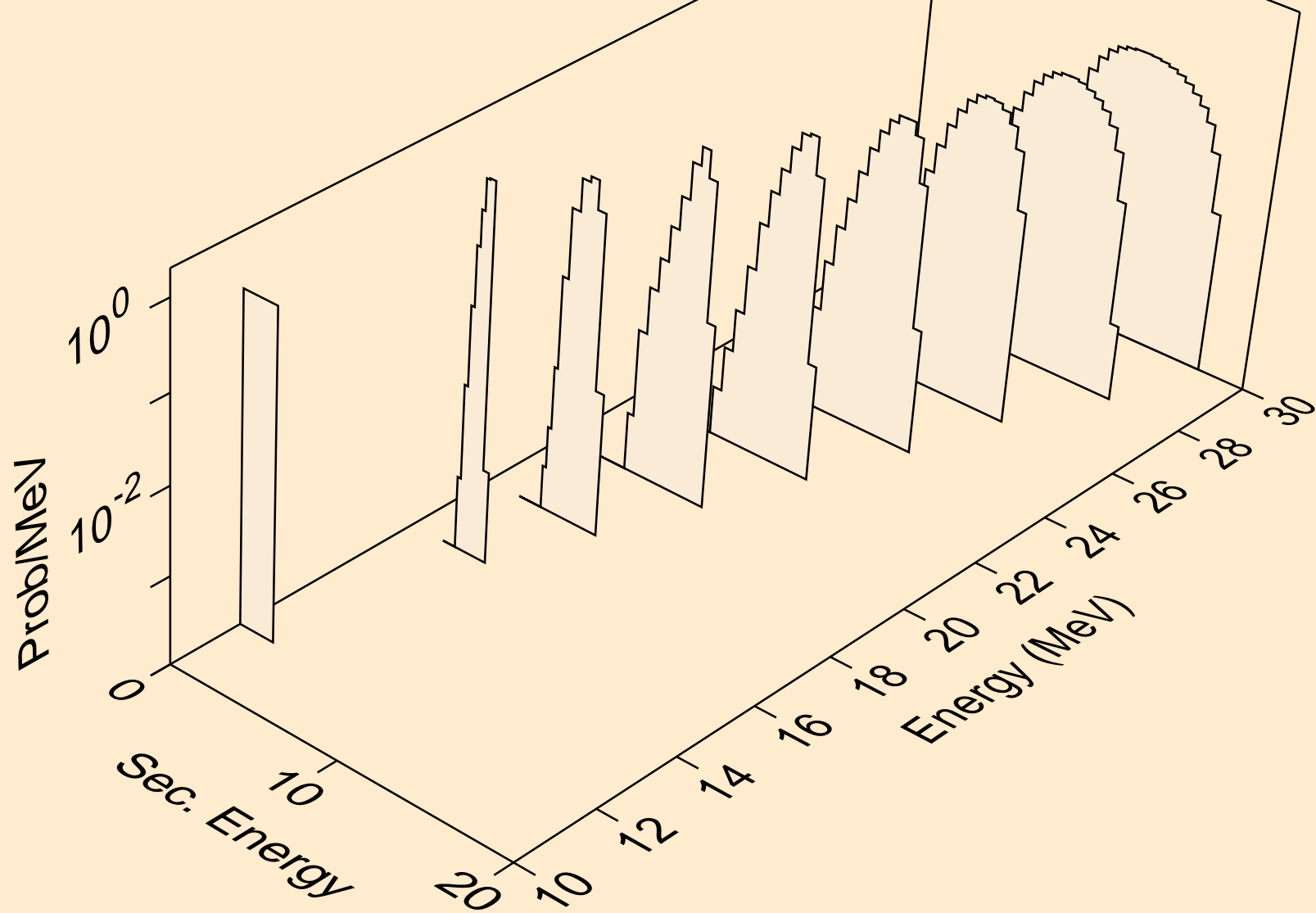
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alphas from (n,x)



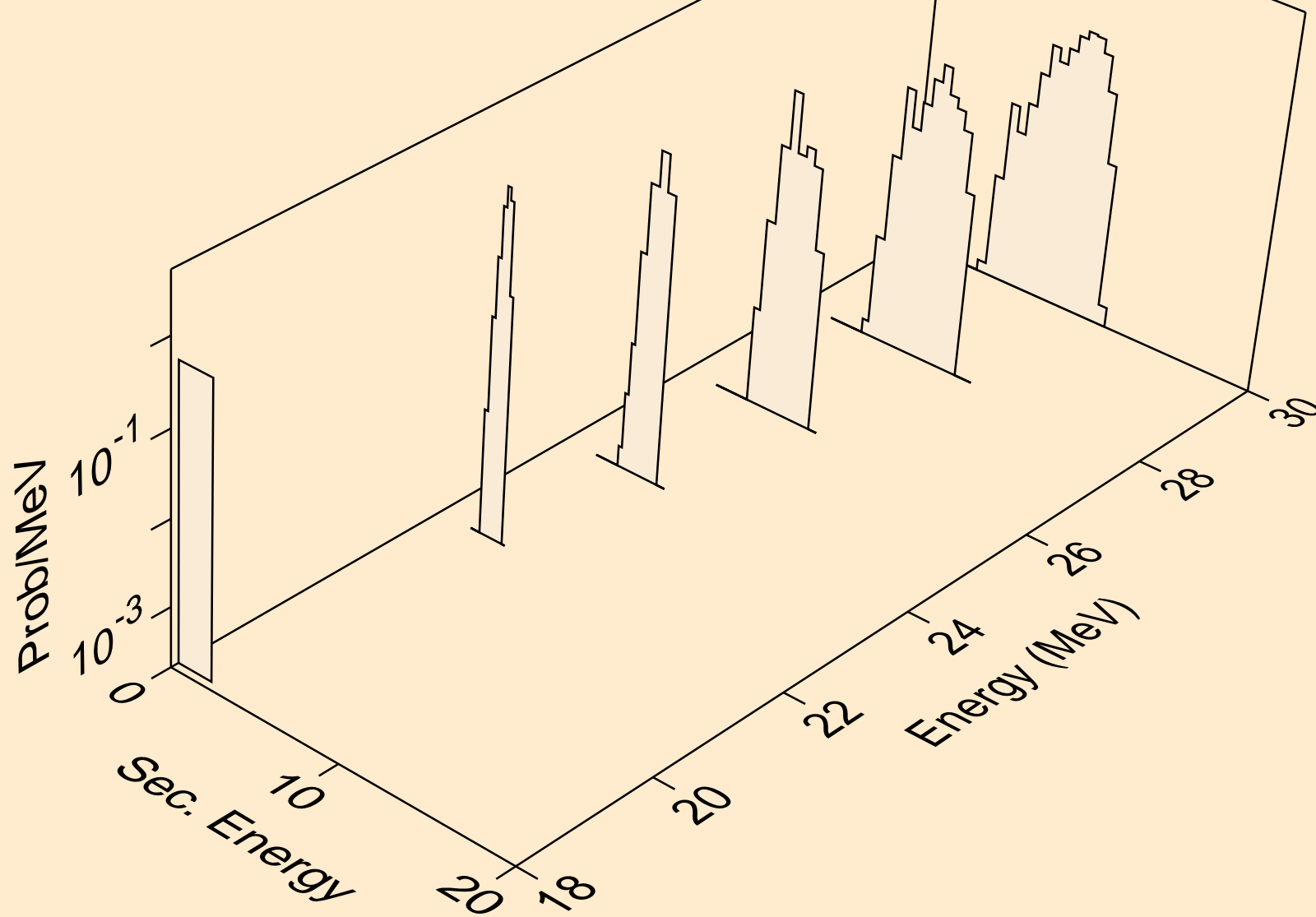
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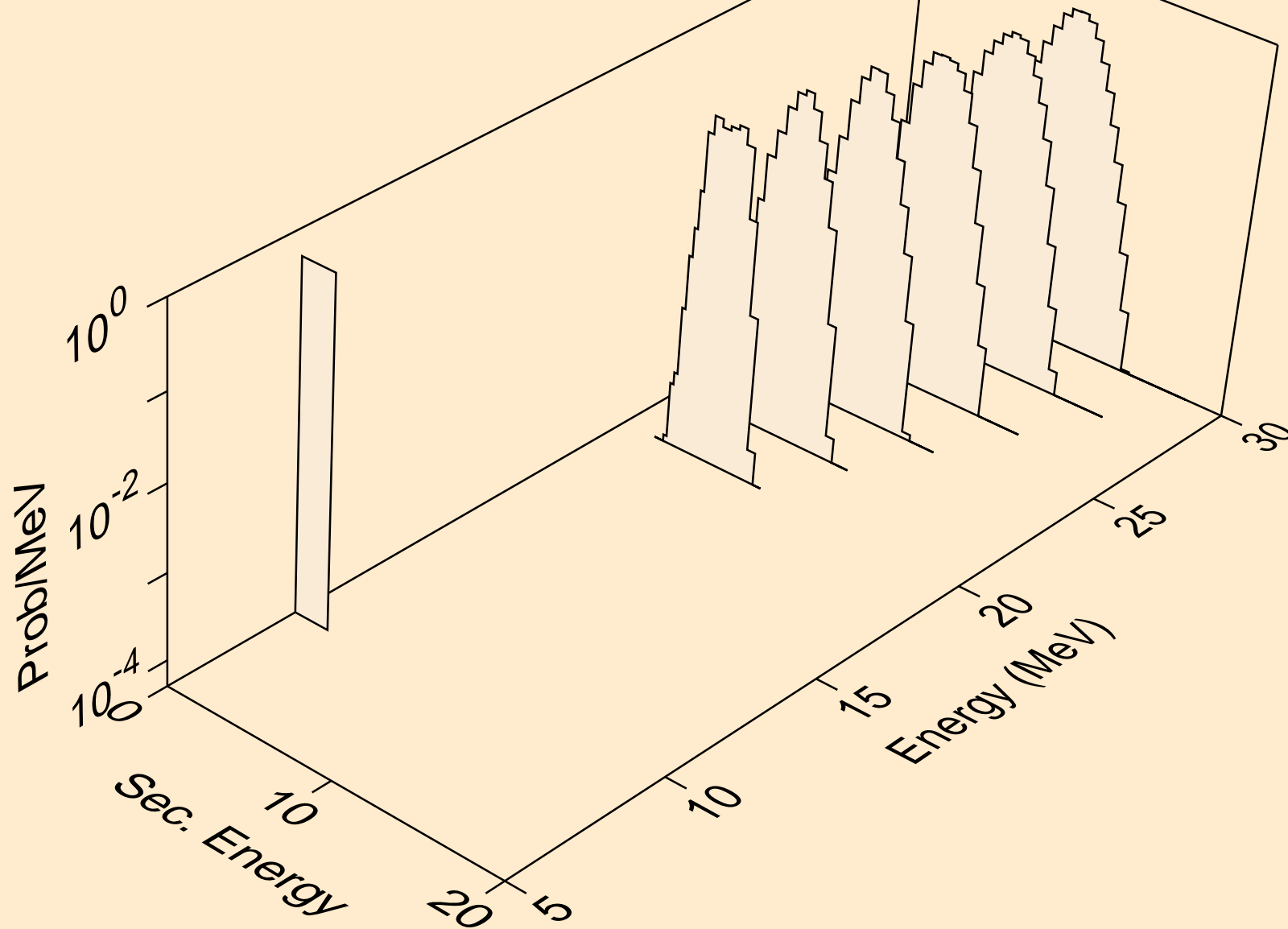
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alphas from (n,2n)a



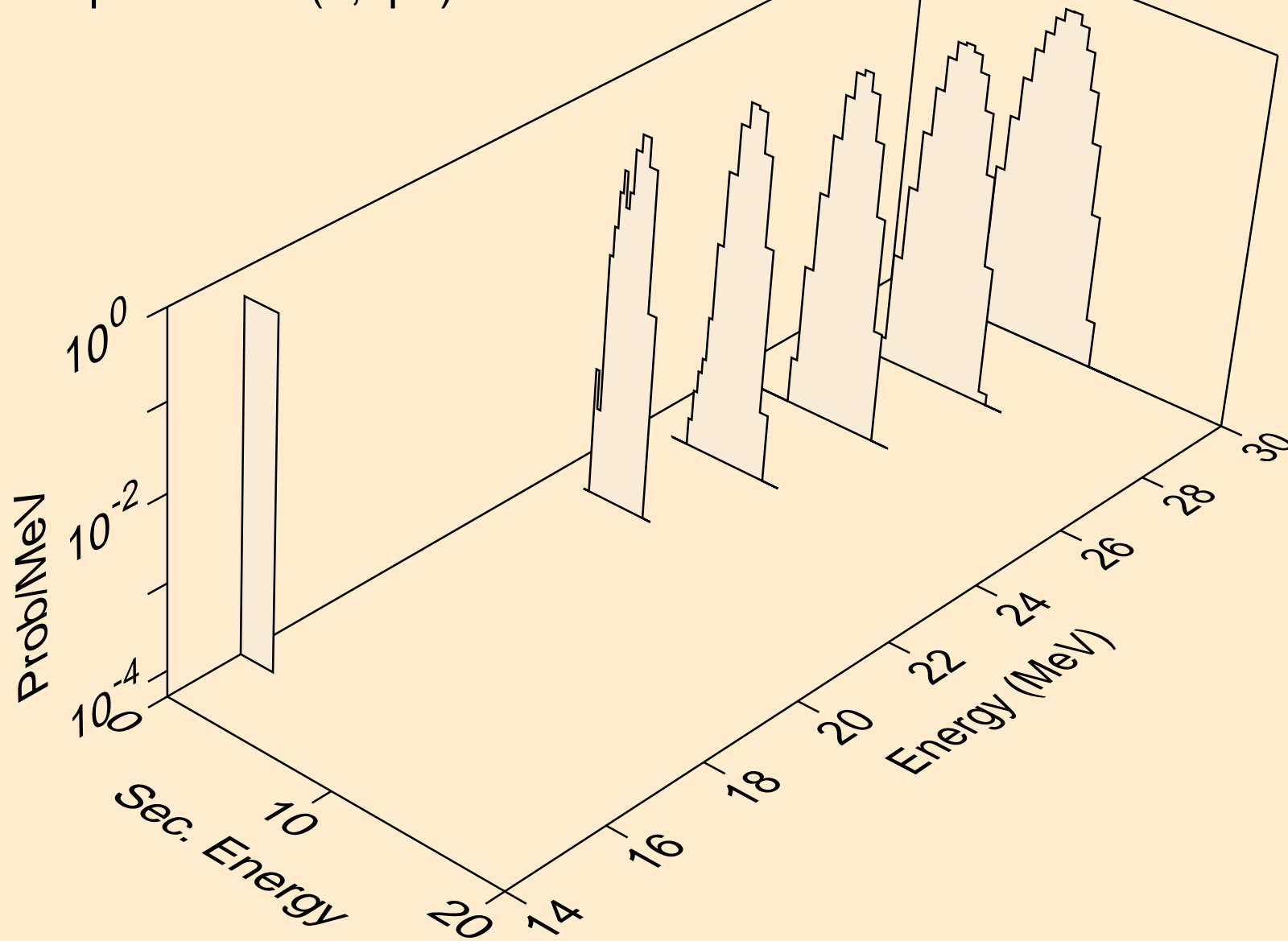
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alphas from (n,3n)a



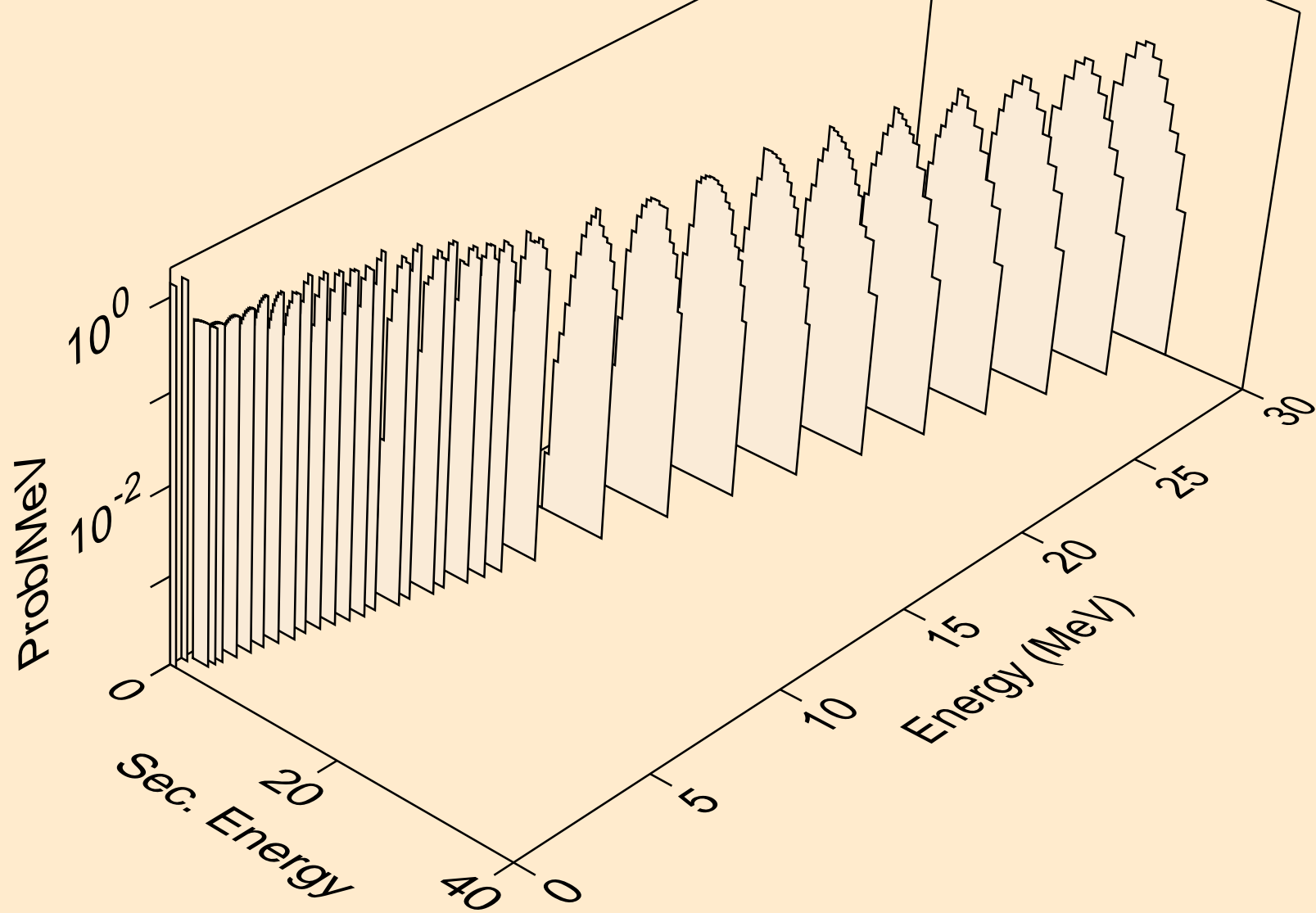
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alphas from (n,n\*)2a



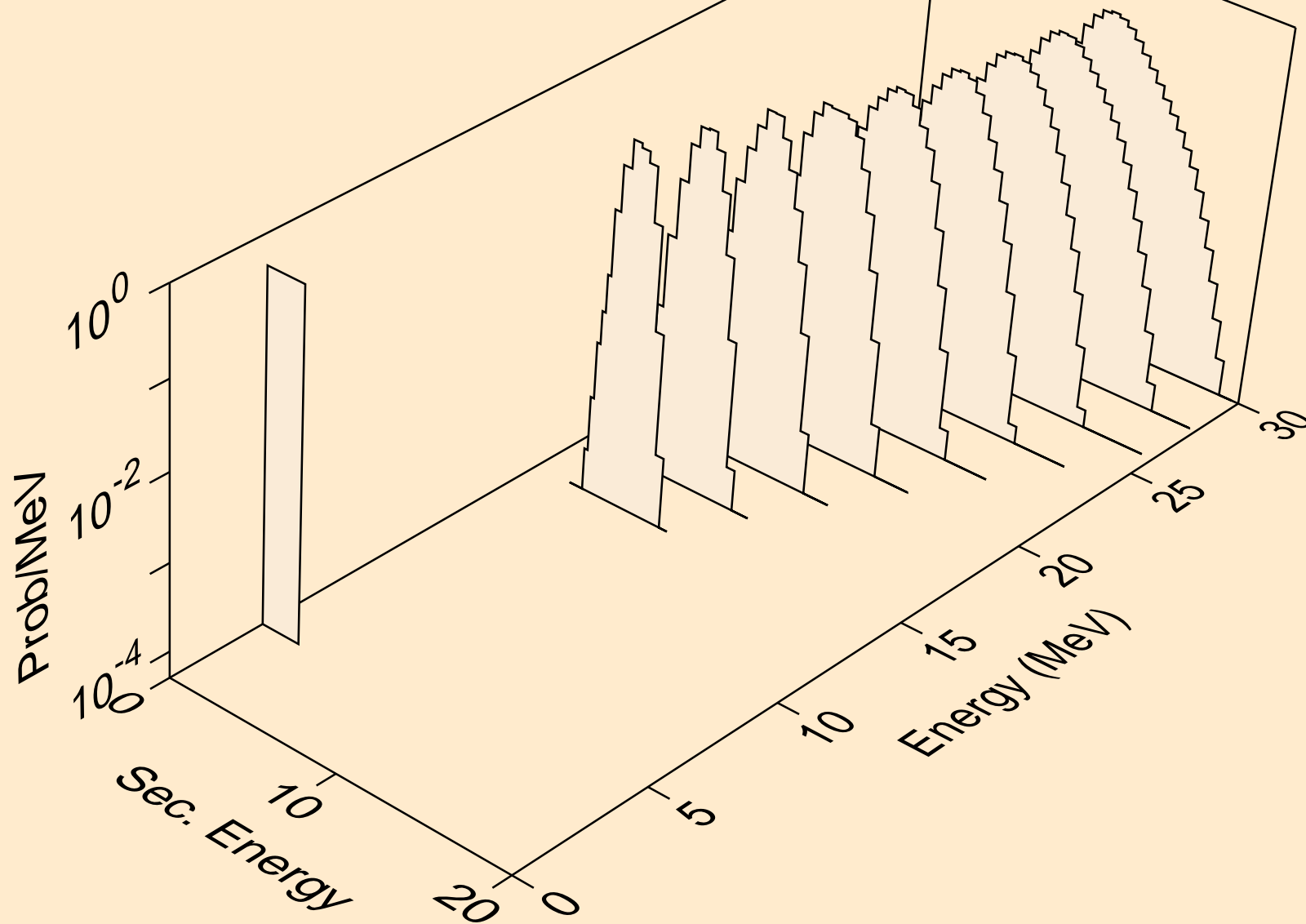
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alphas from (n,npa)



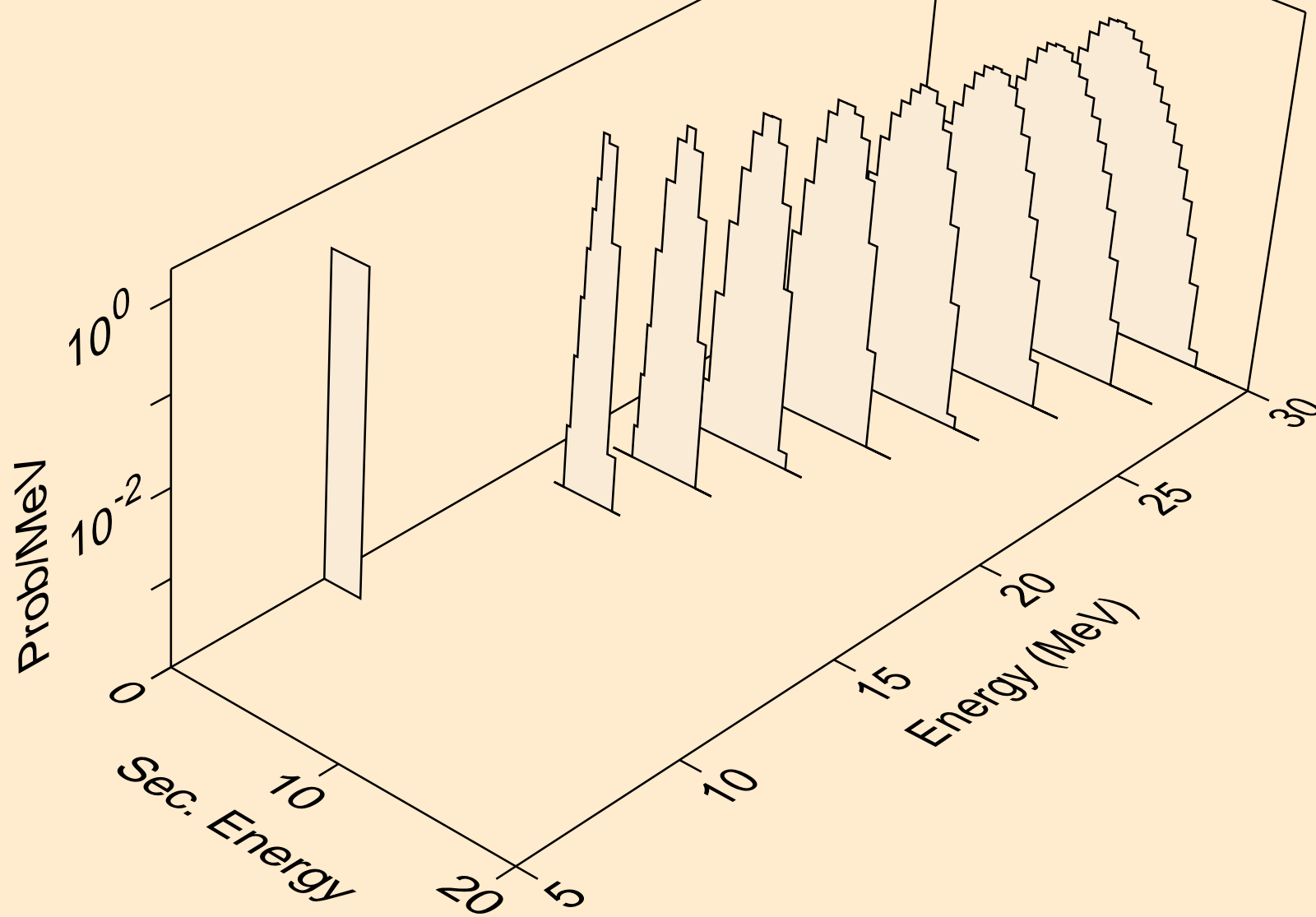
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alphas from (n,a)



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



ZR094 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

