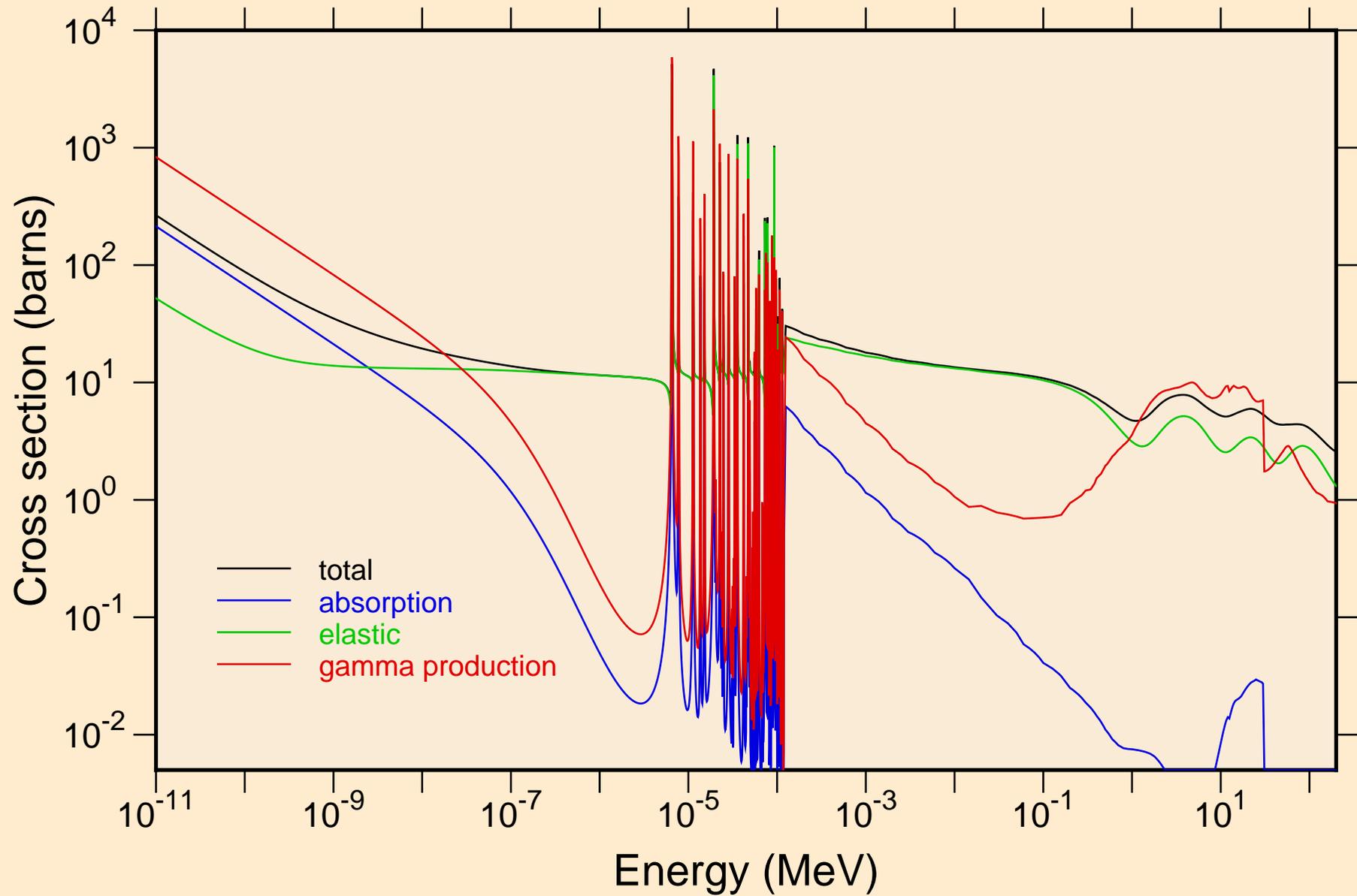
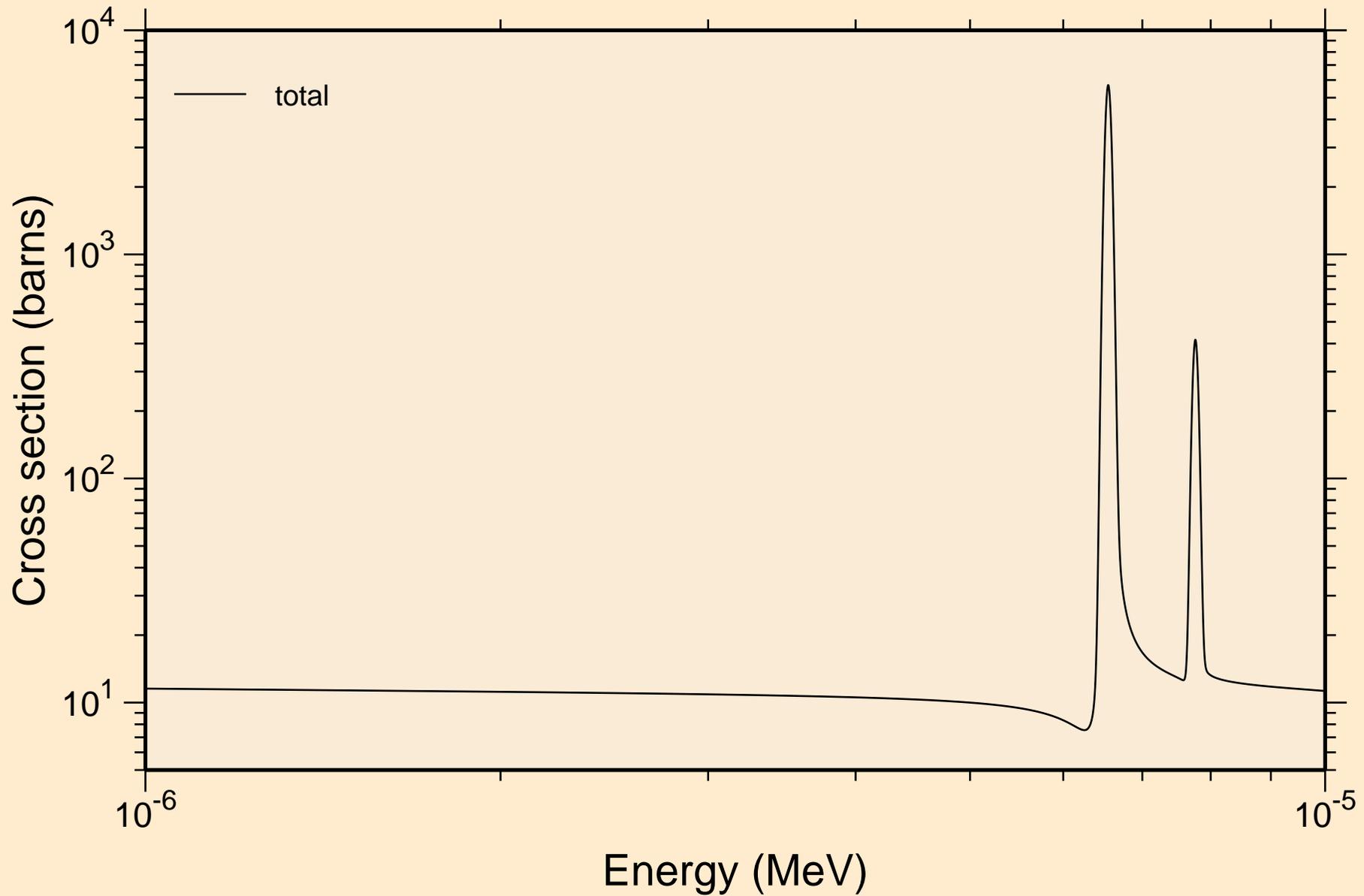


# RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K

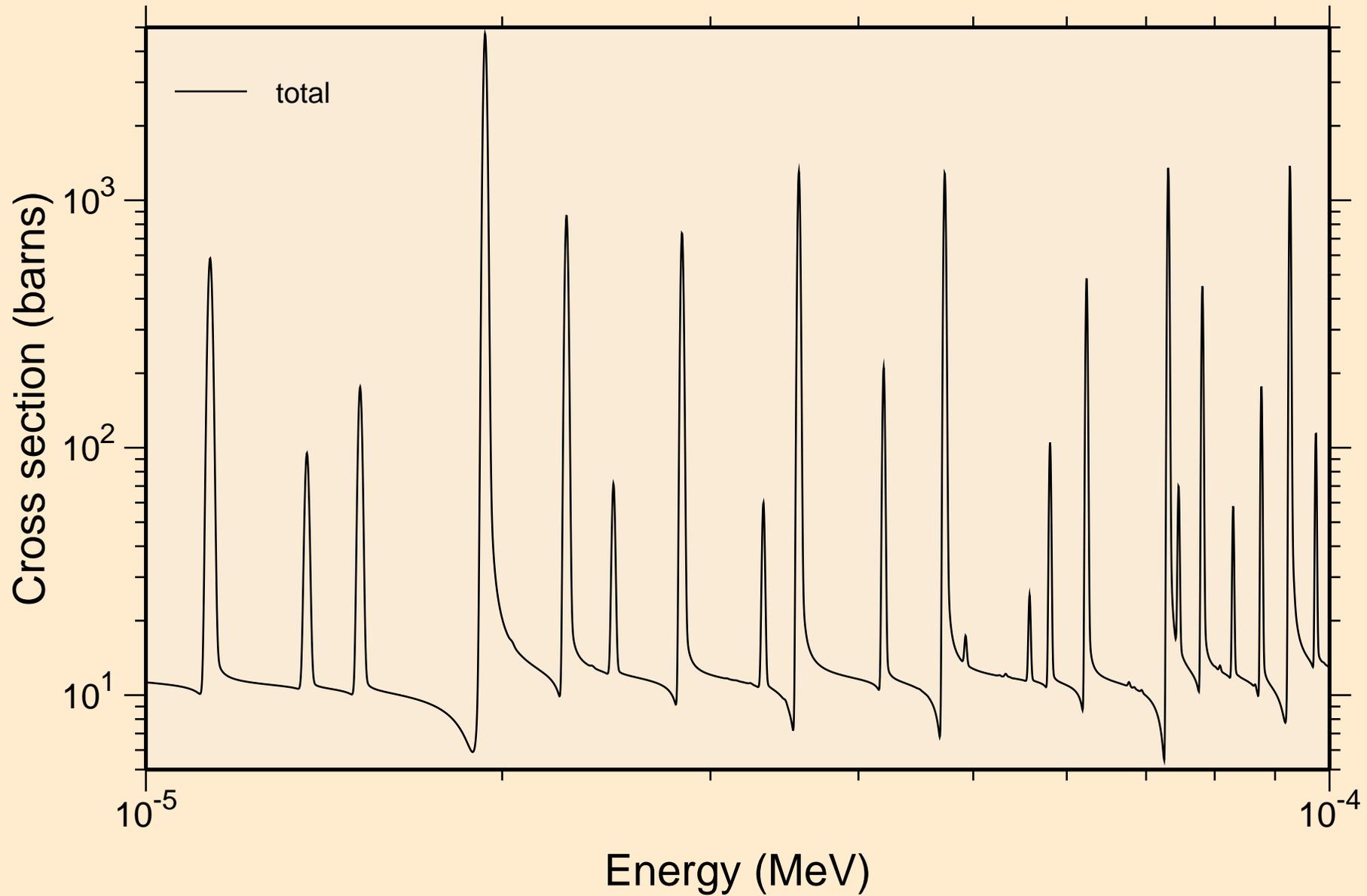
## Principal cross sections



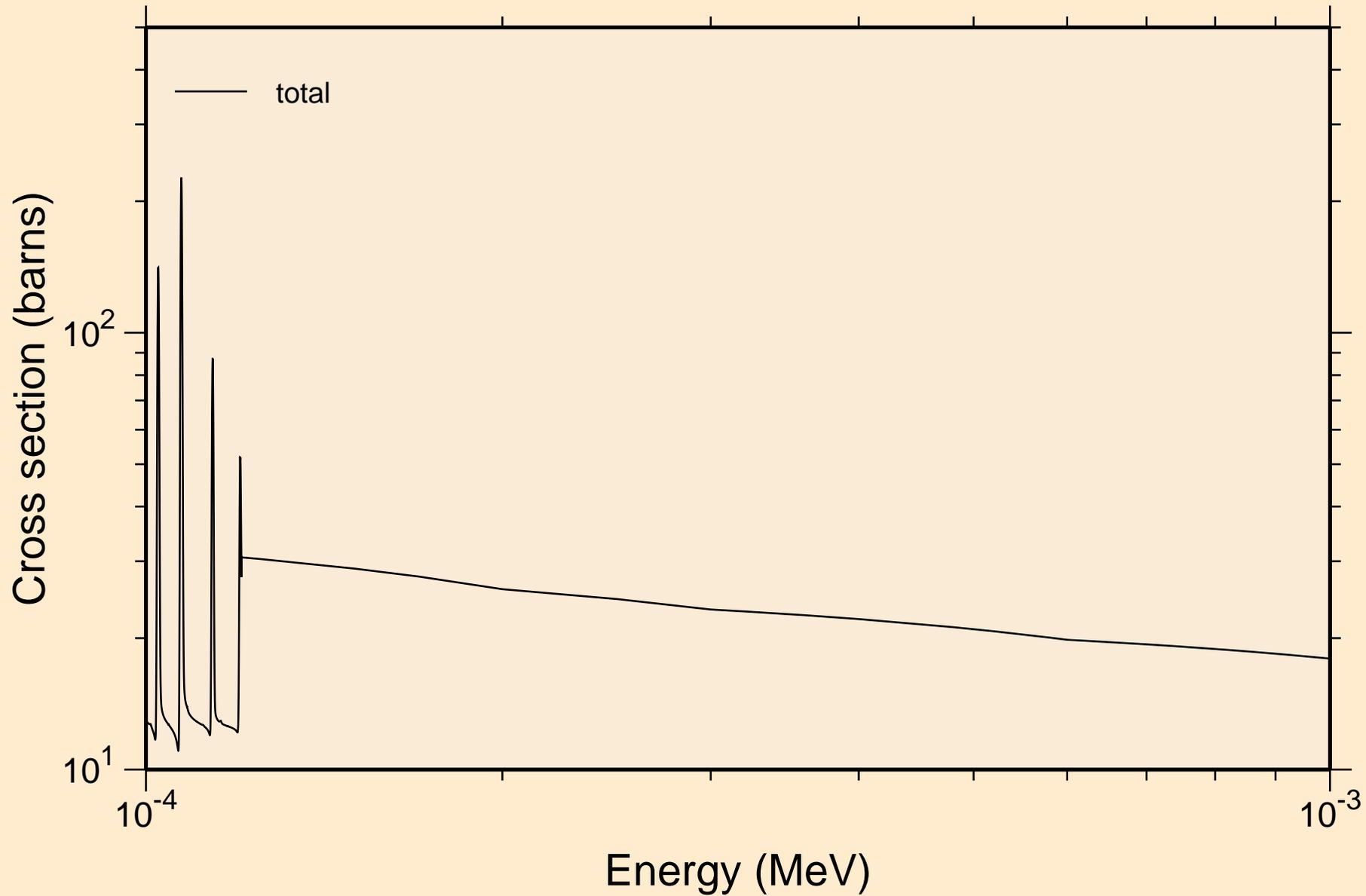
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resonance total cross section



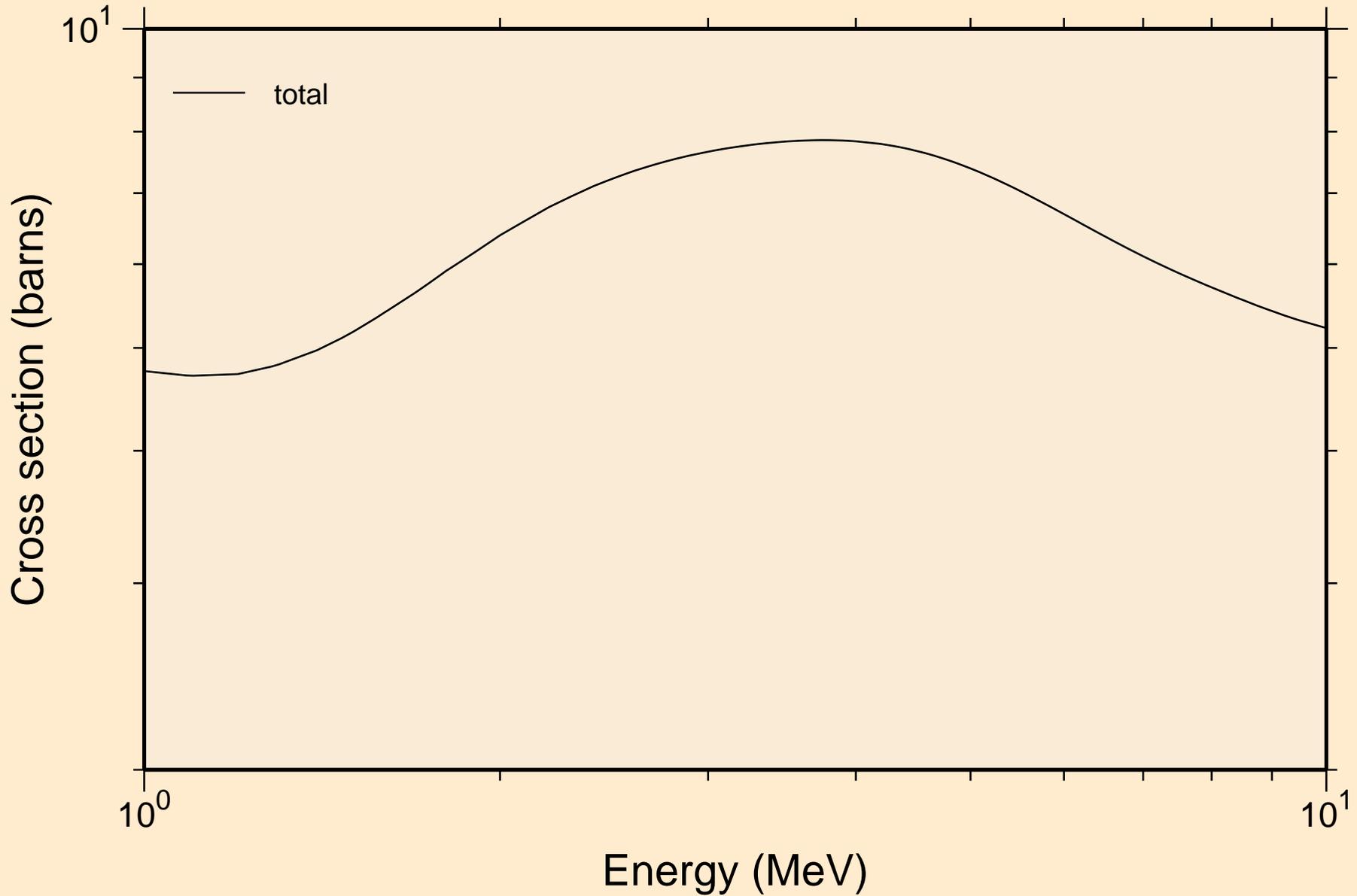
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resonance total cross section



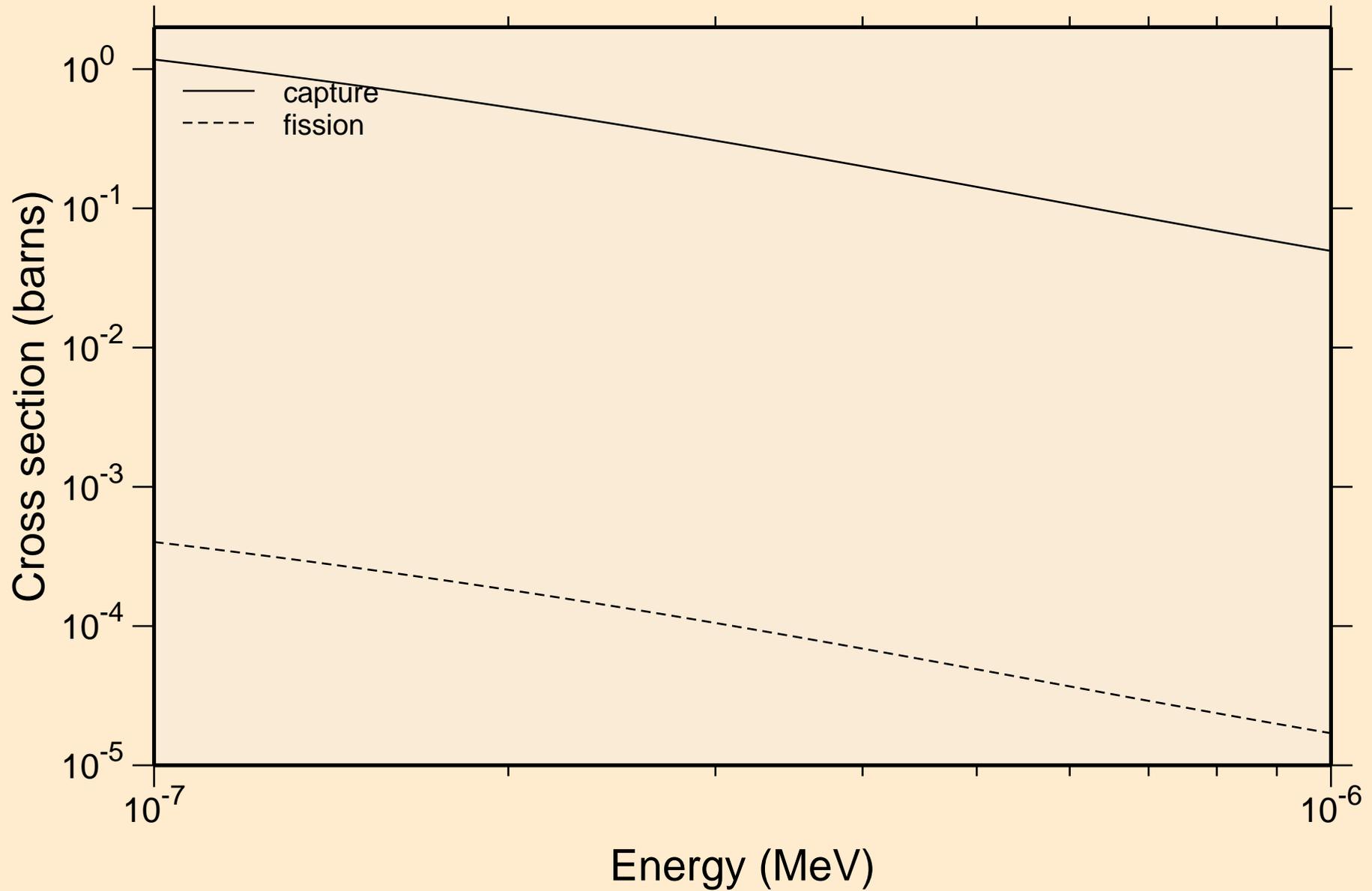
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resonance total cross section



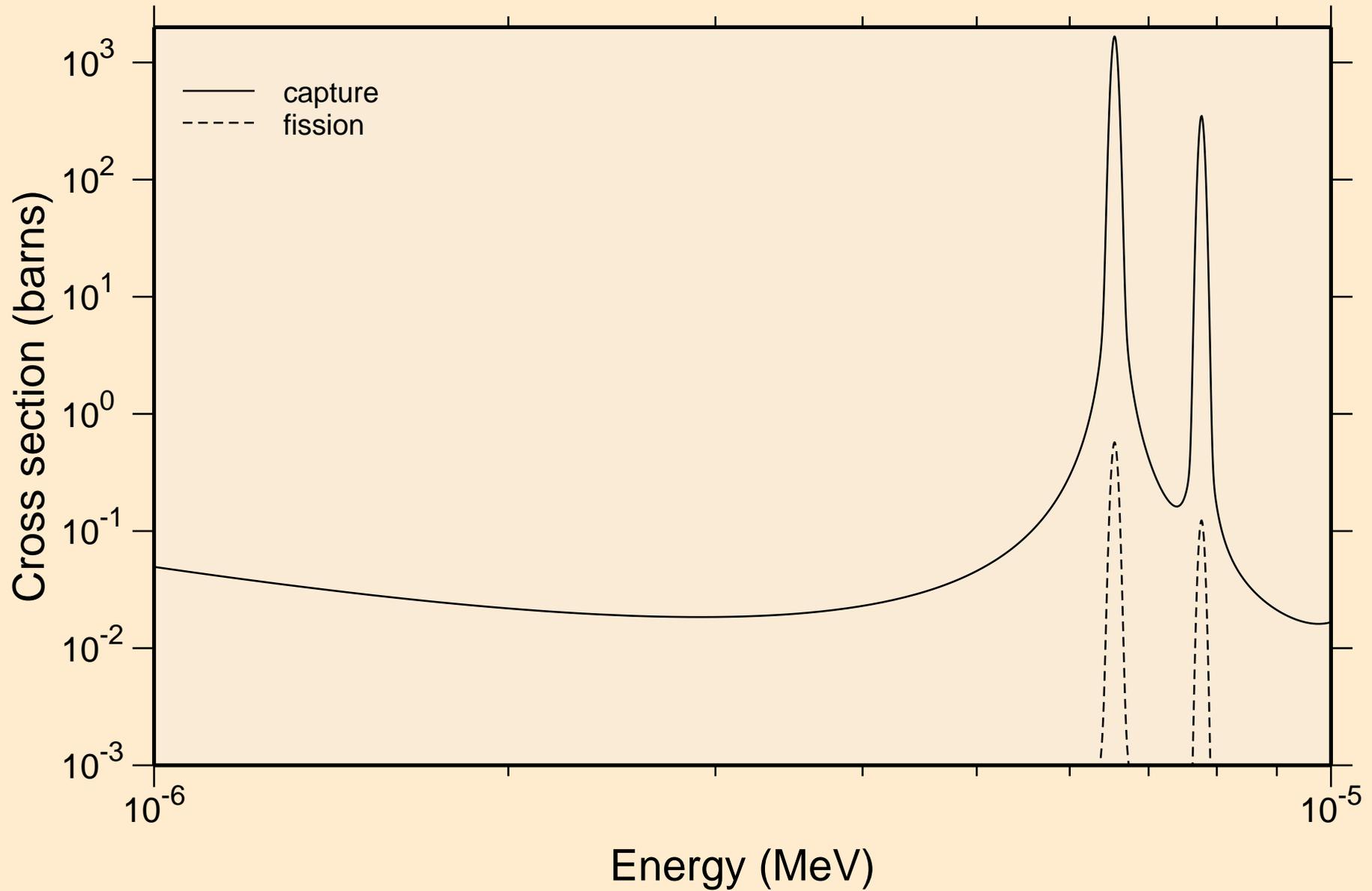
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resonance total cross section



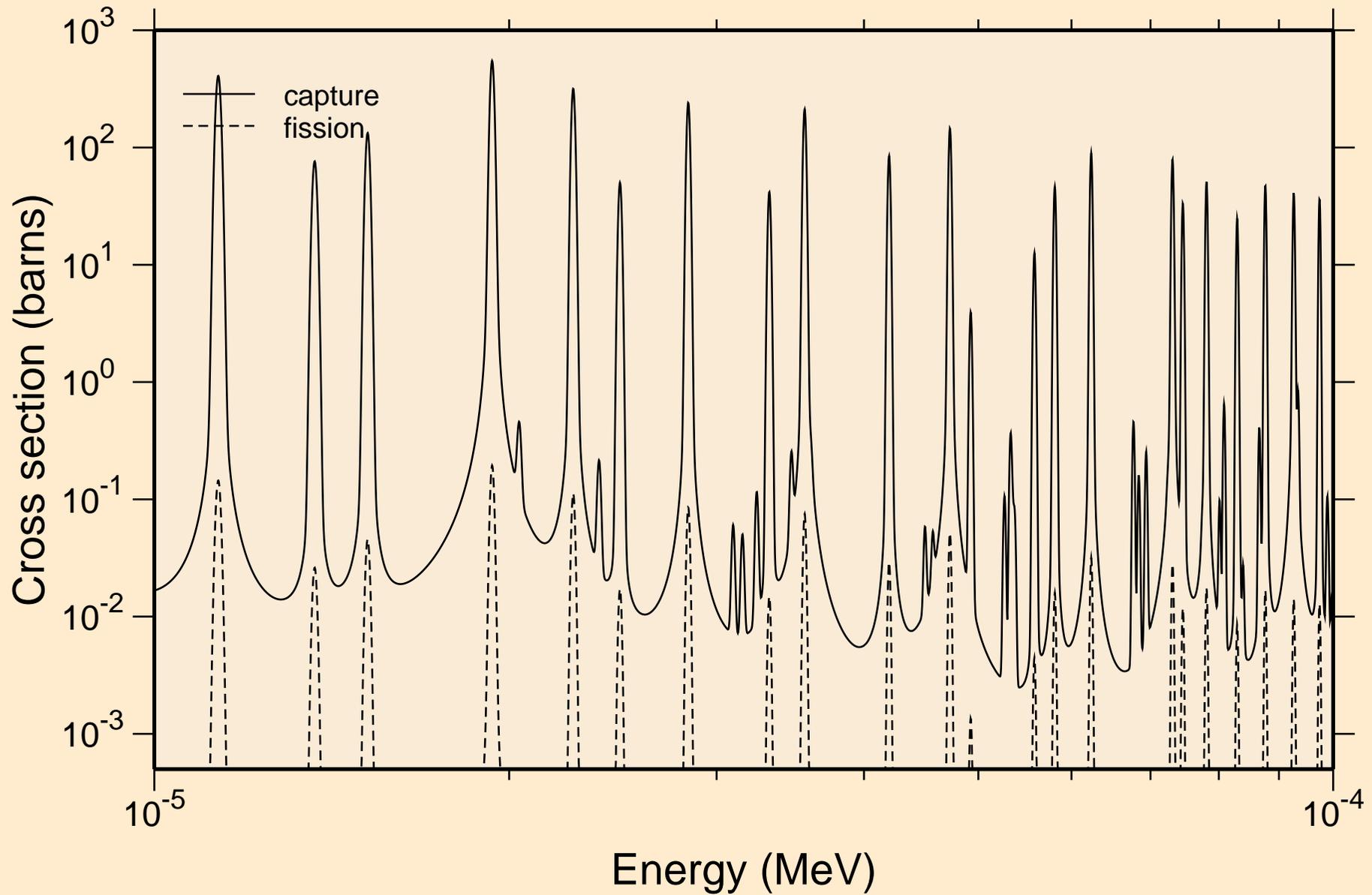
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resonance absorption cross sections



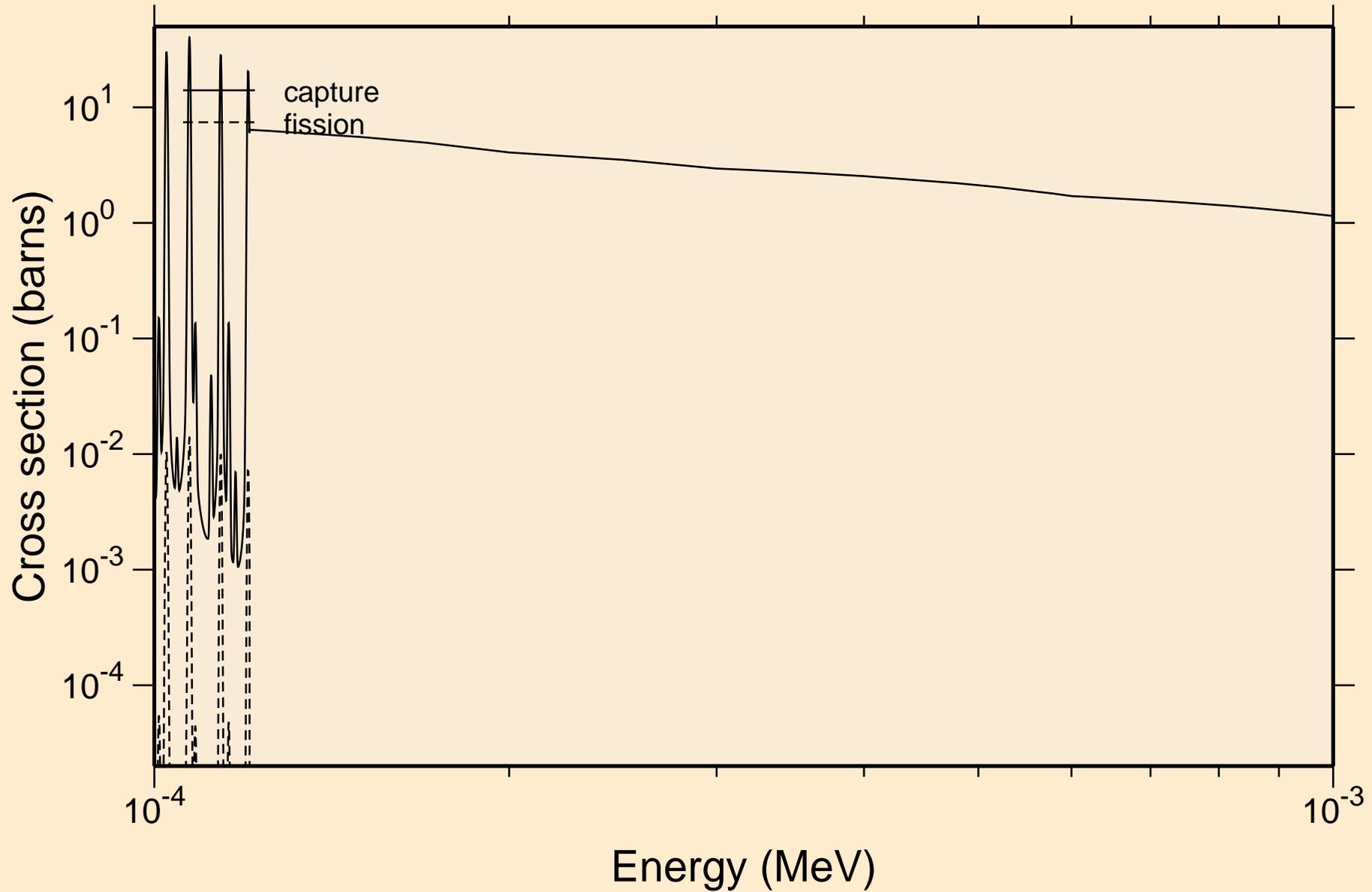
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resonance absorption cross sections



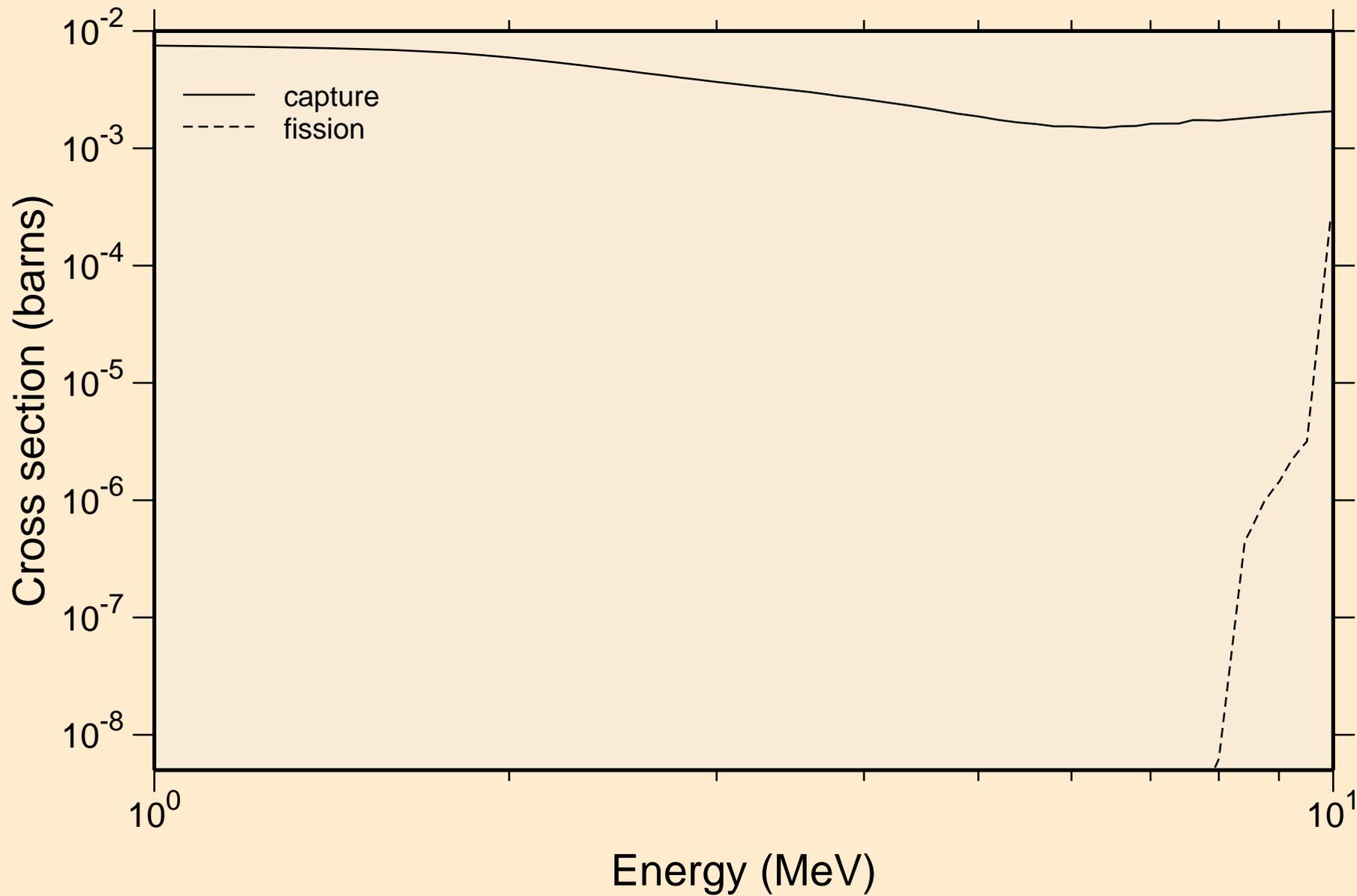
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resonance absorption cross sections



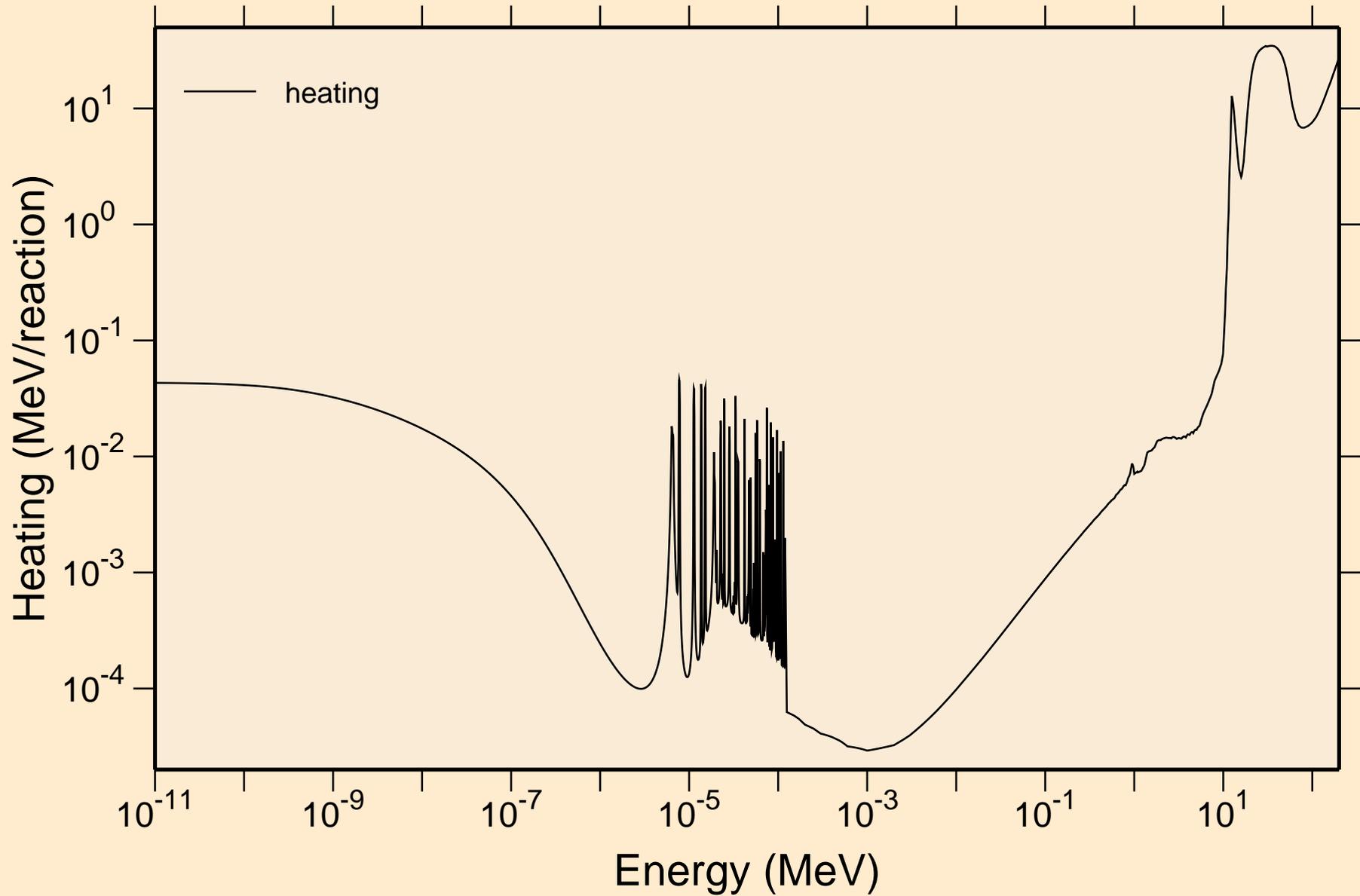
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resonance absorption cross sections



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
resonance absorption cross sections

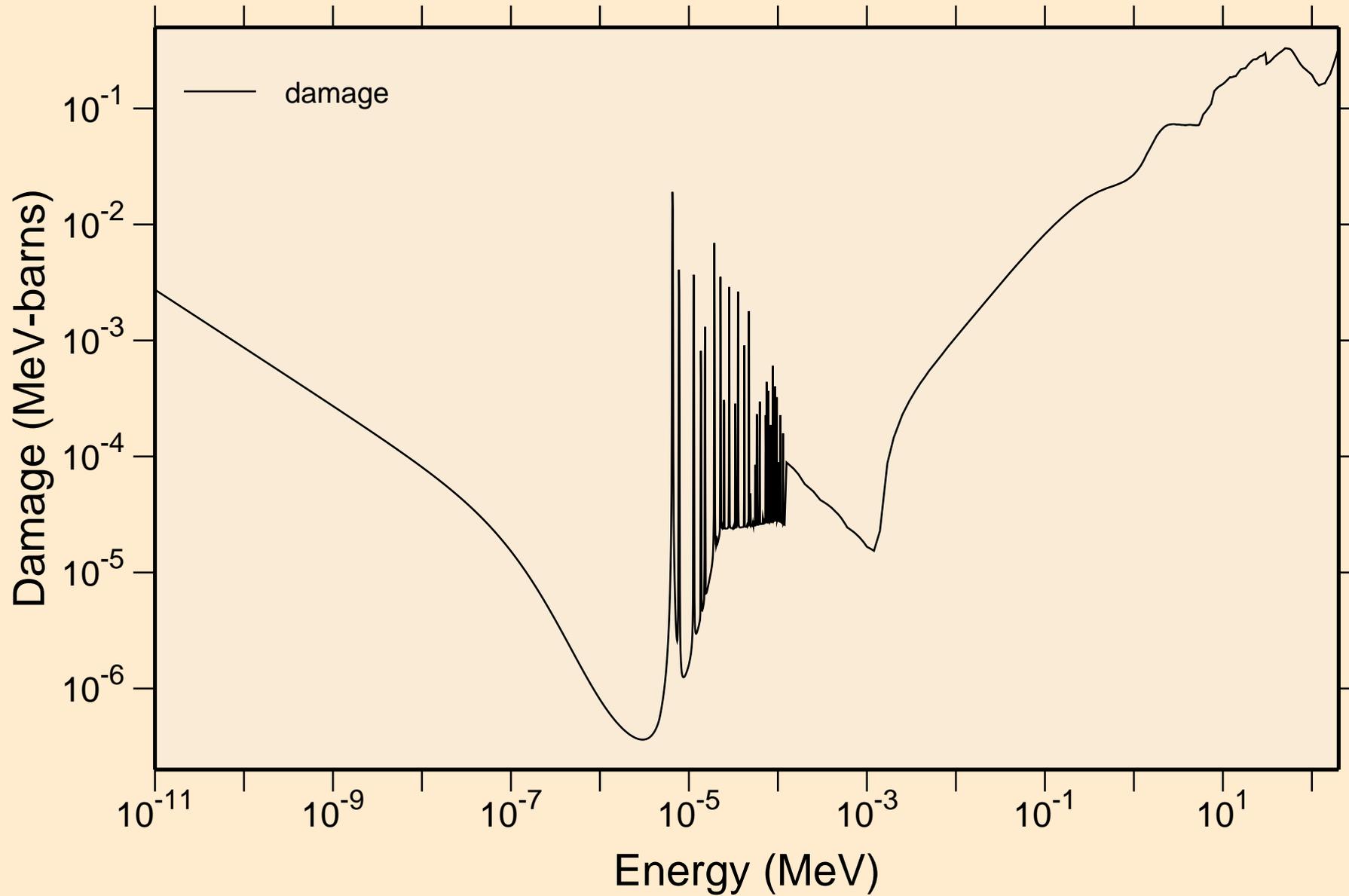


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Heating

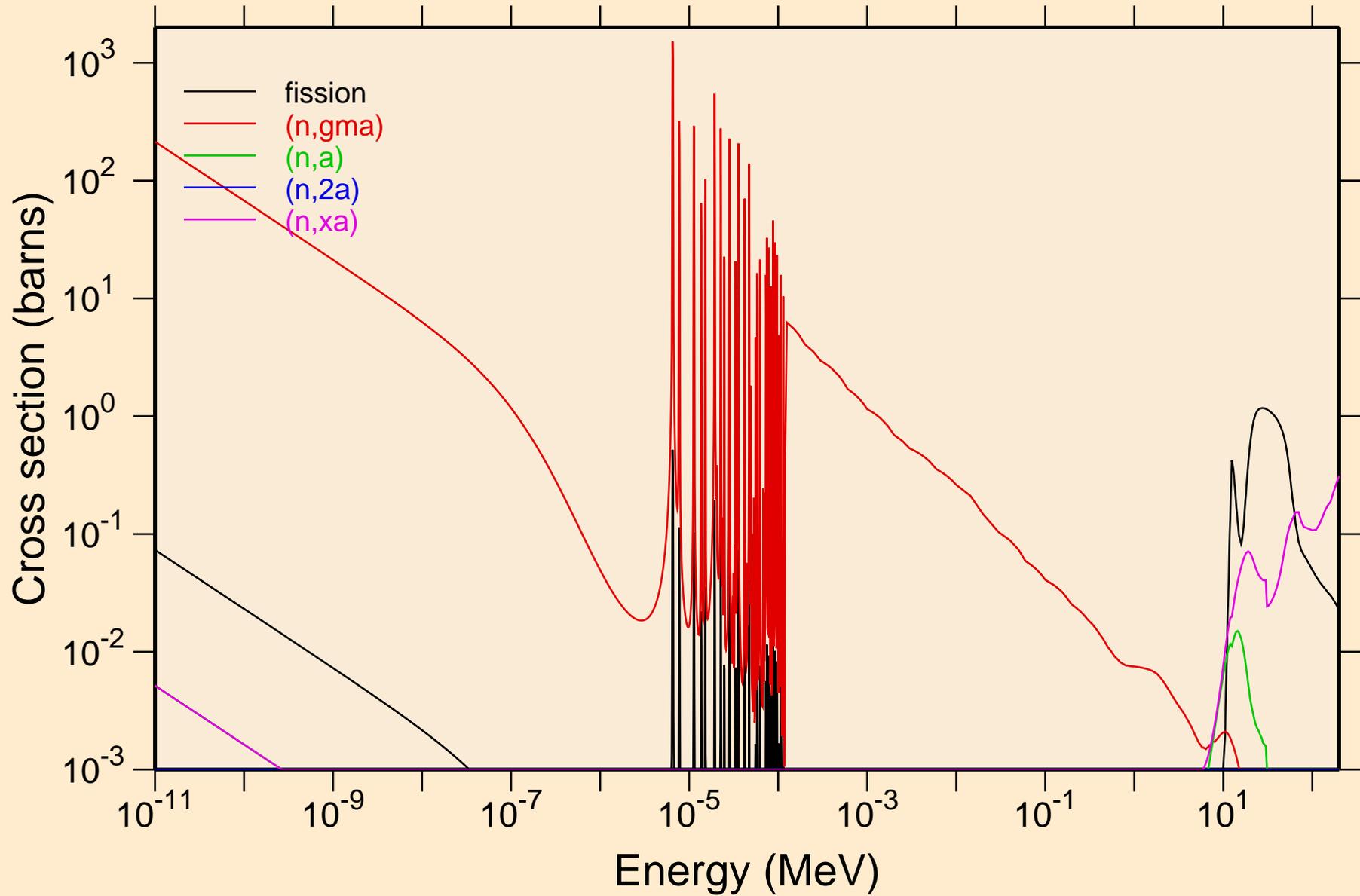


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## Damage

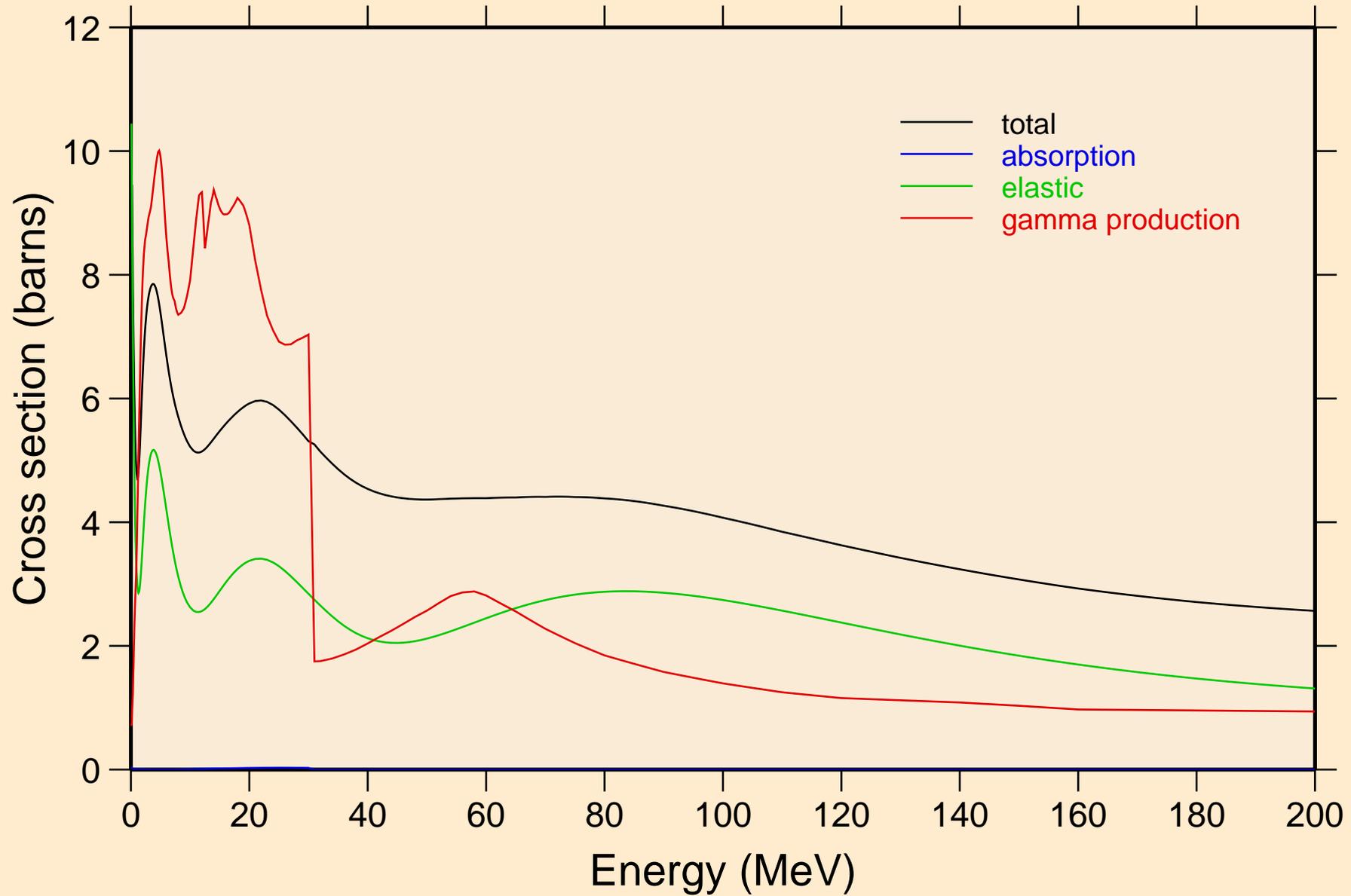


RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Non-threshold reactions

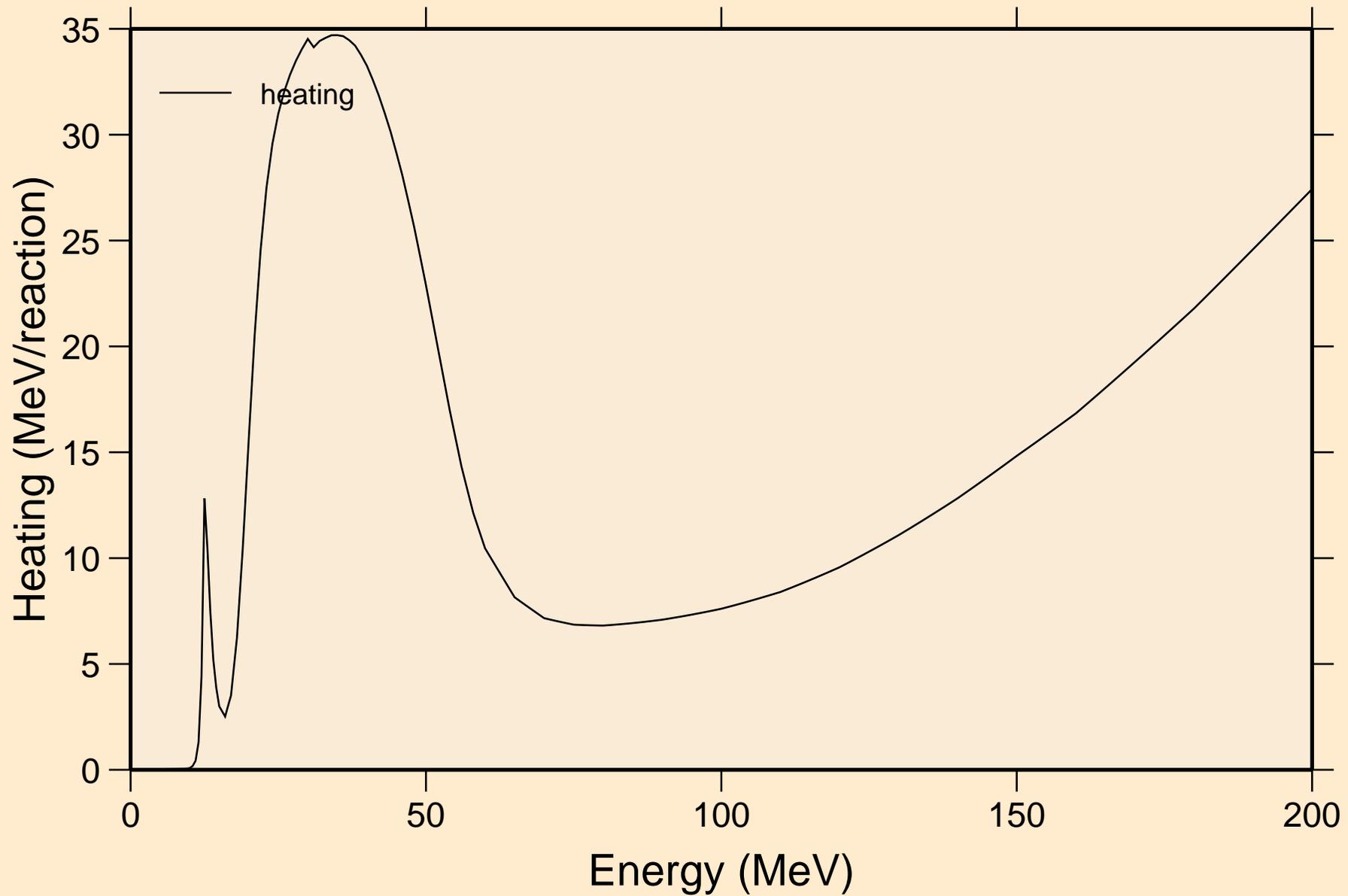


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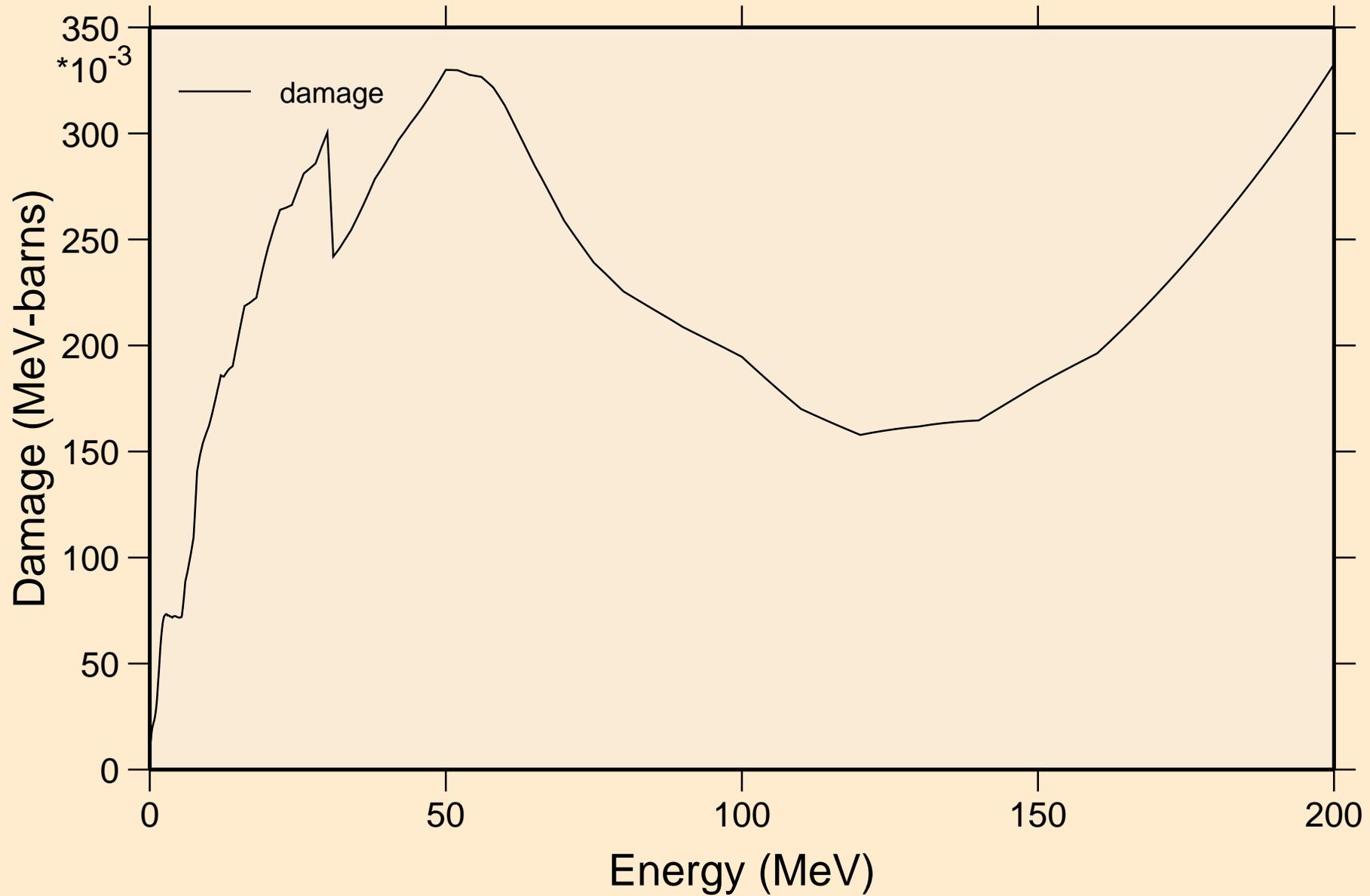
## Principal cross sections



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Heating

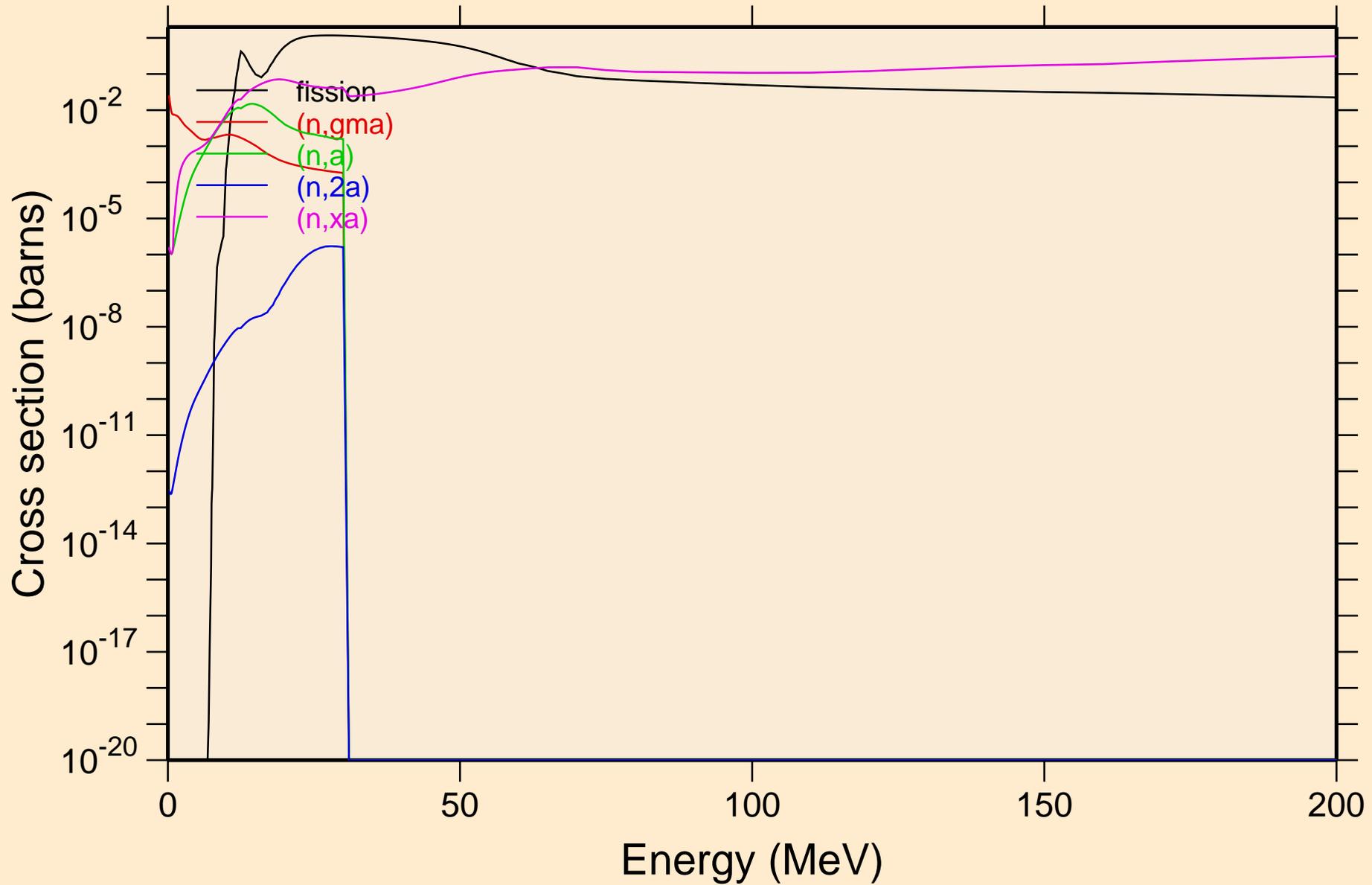


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Damage

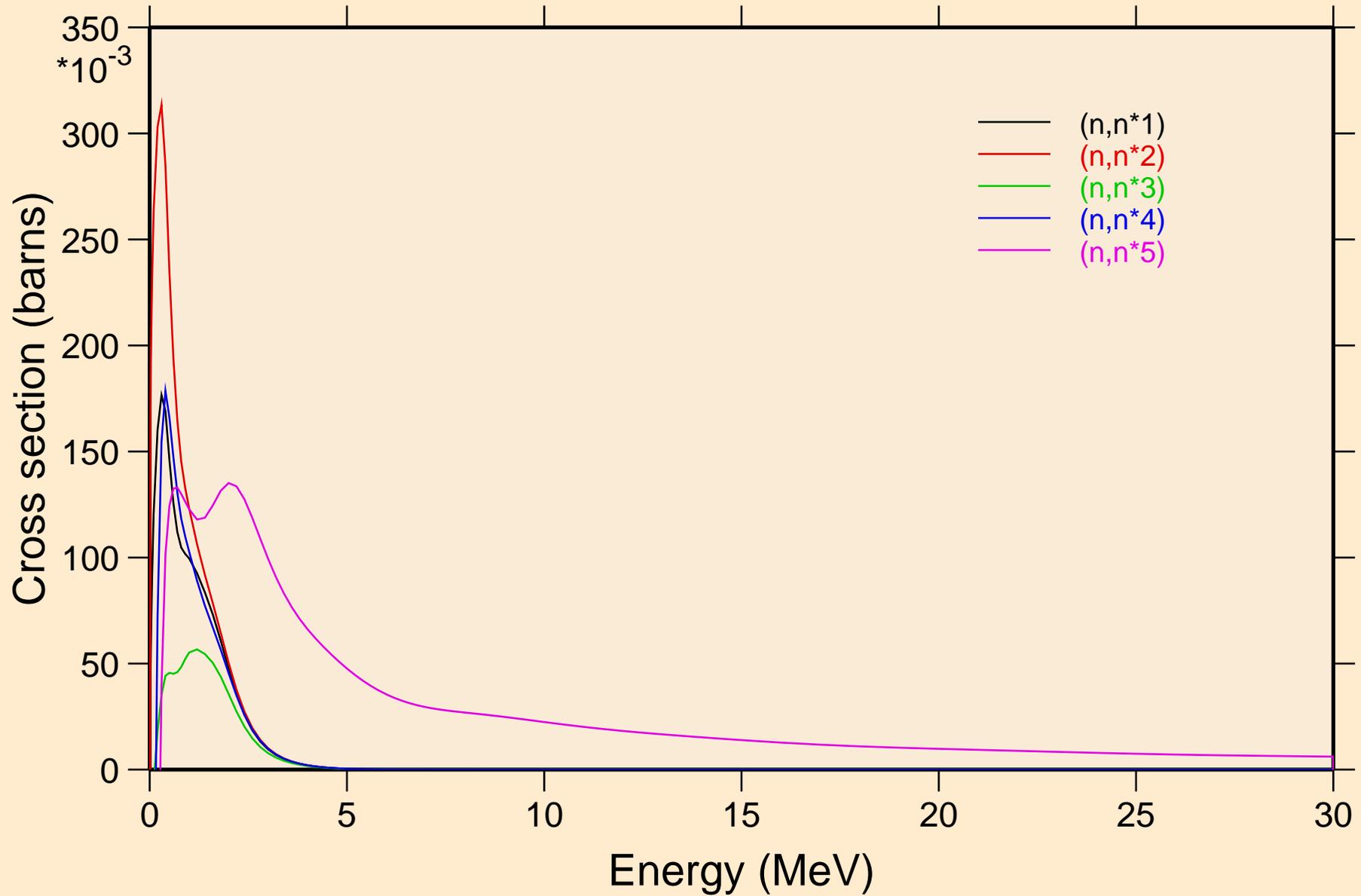


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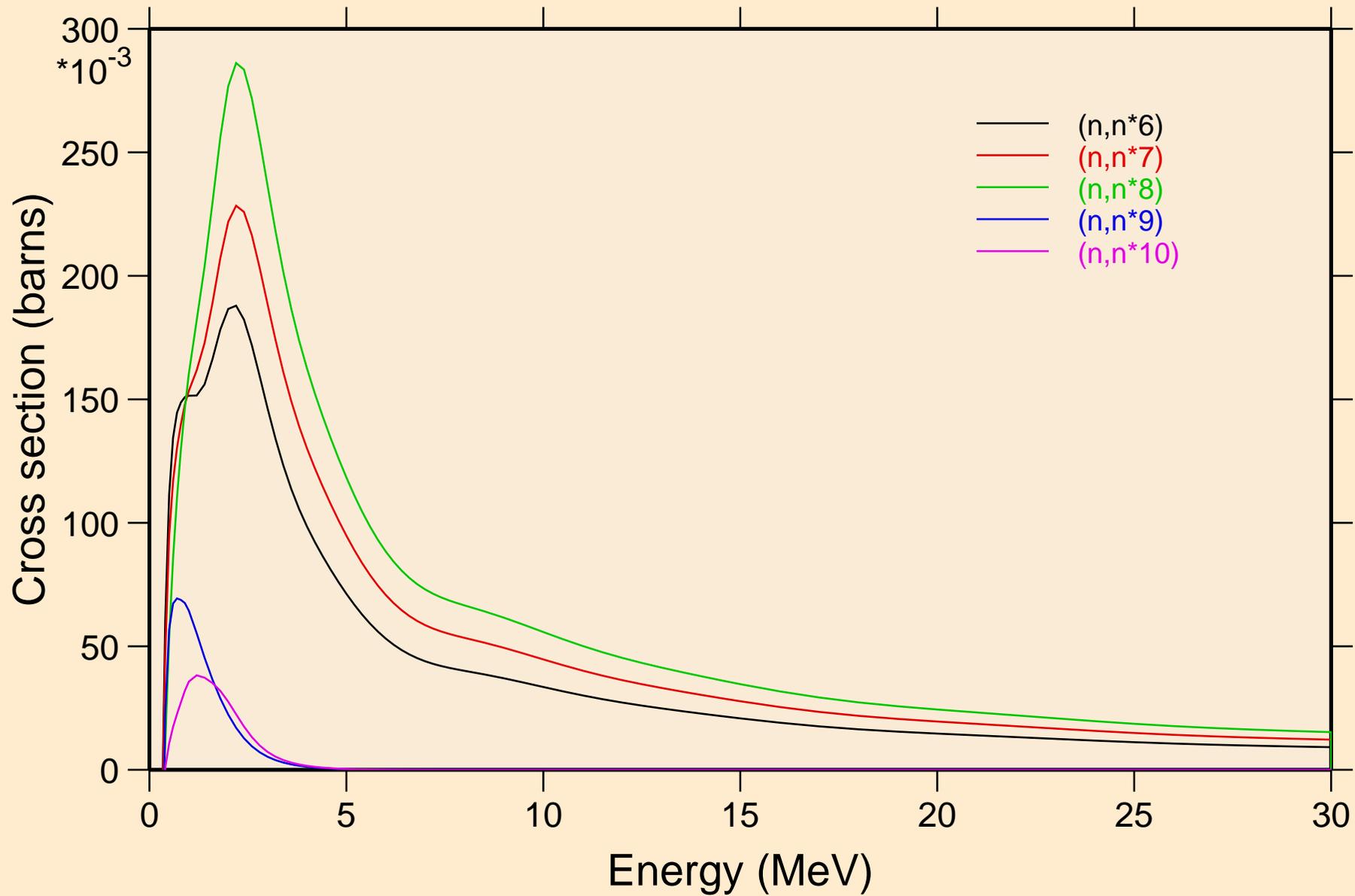
## Non-threshold reactions



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Inelastic levels

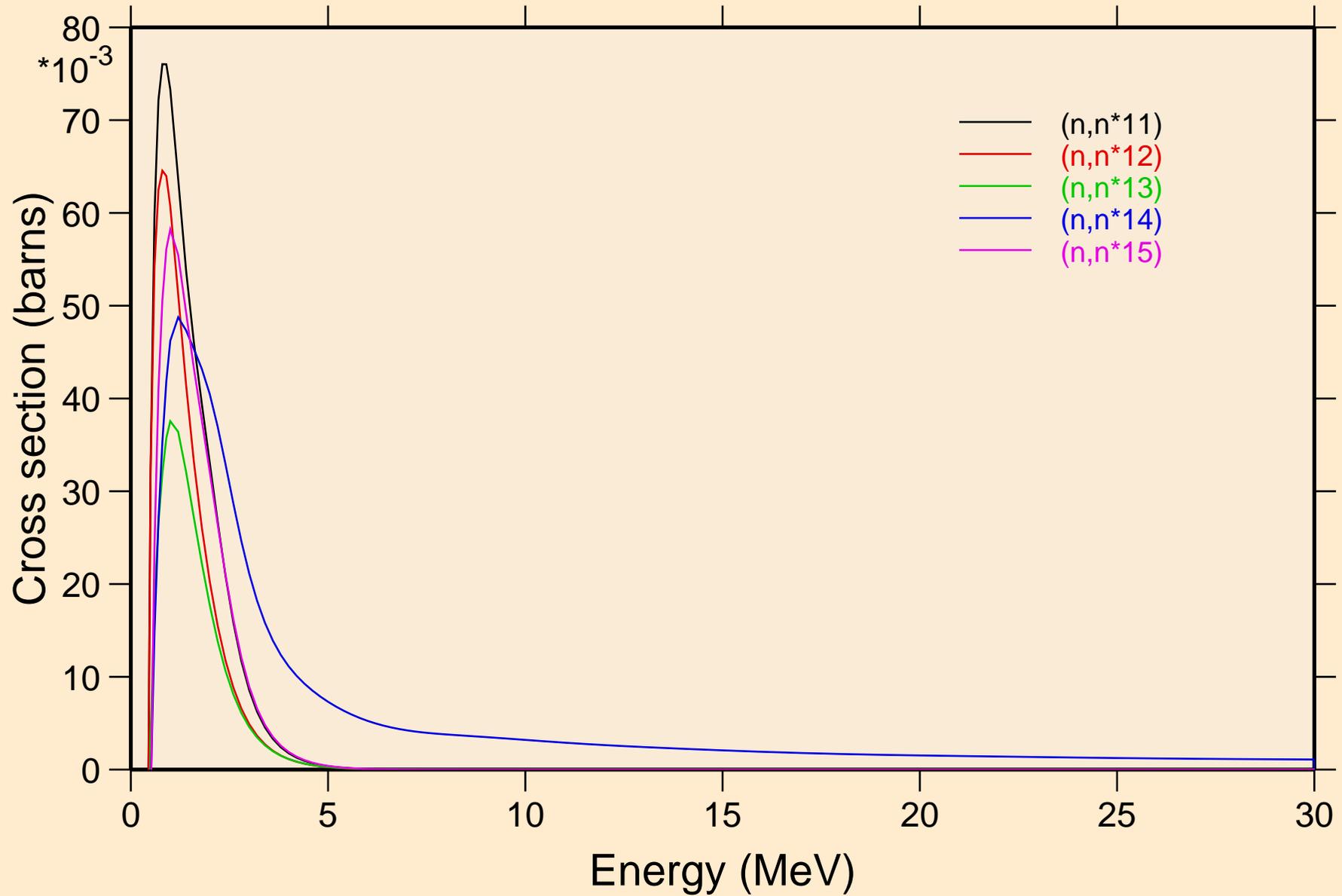


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Inelastic levels

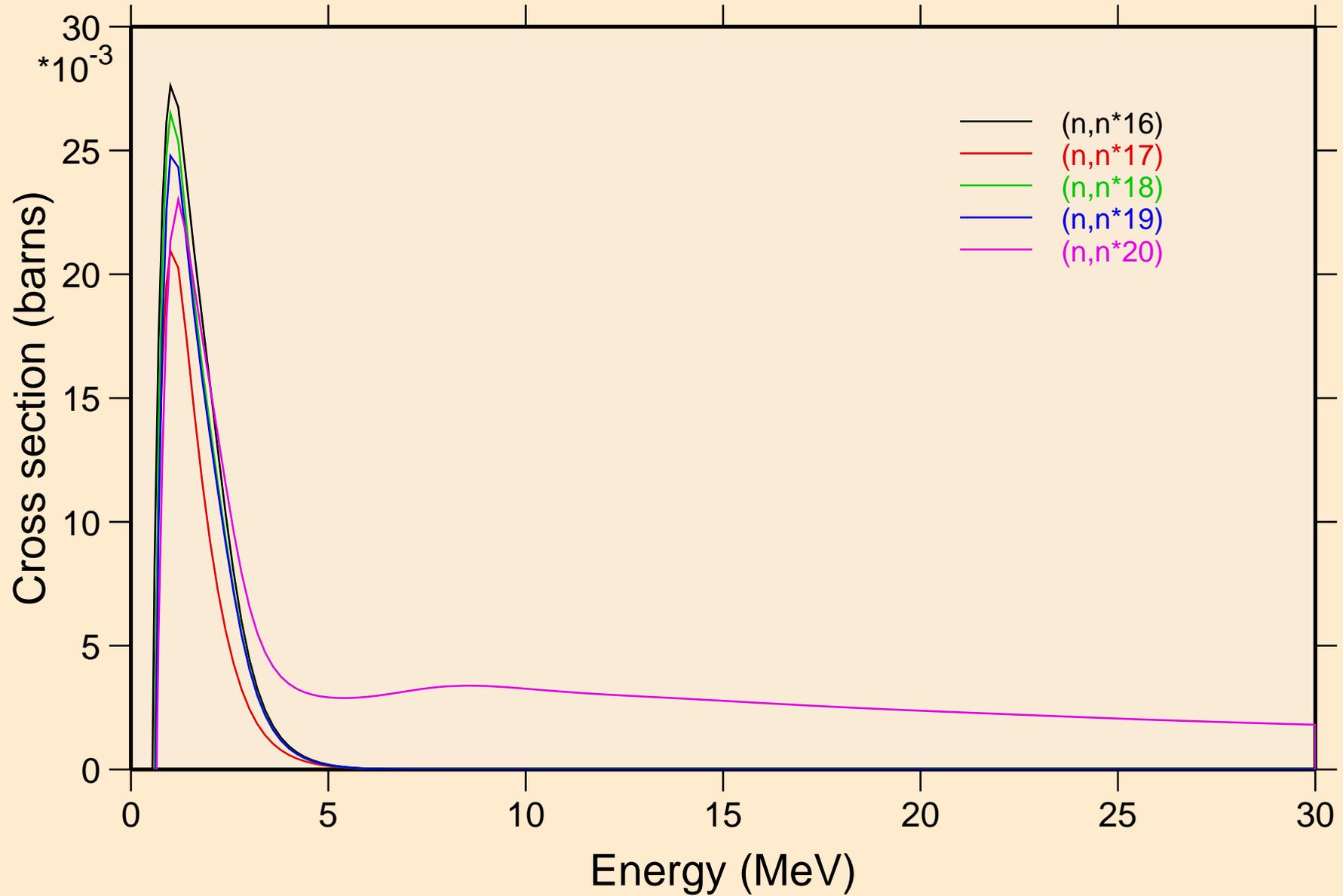


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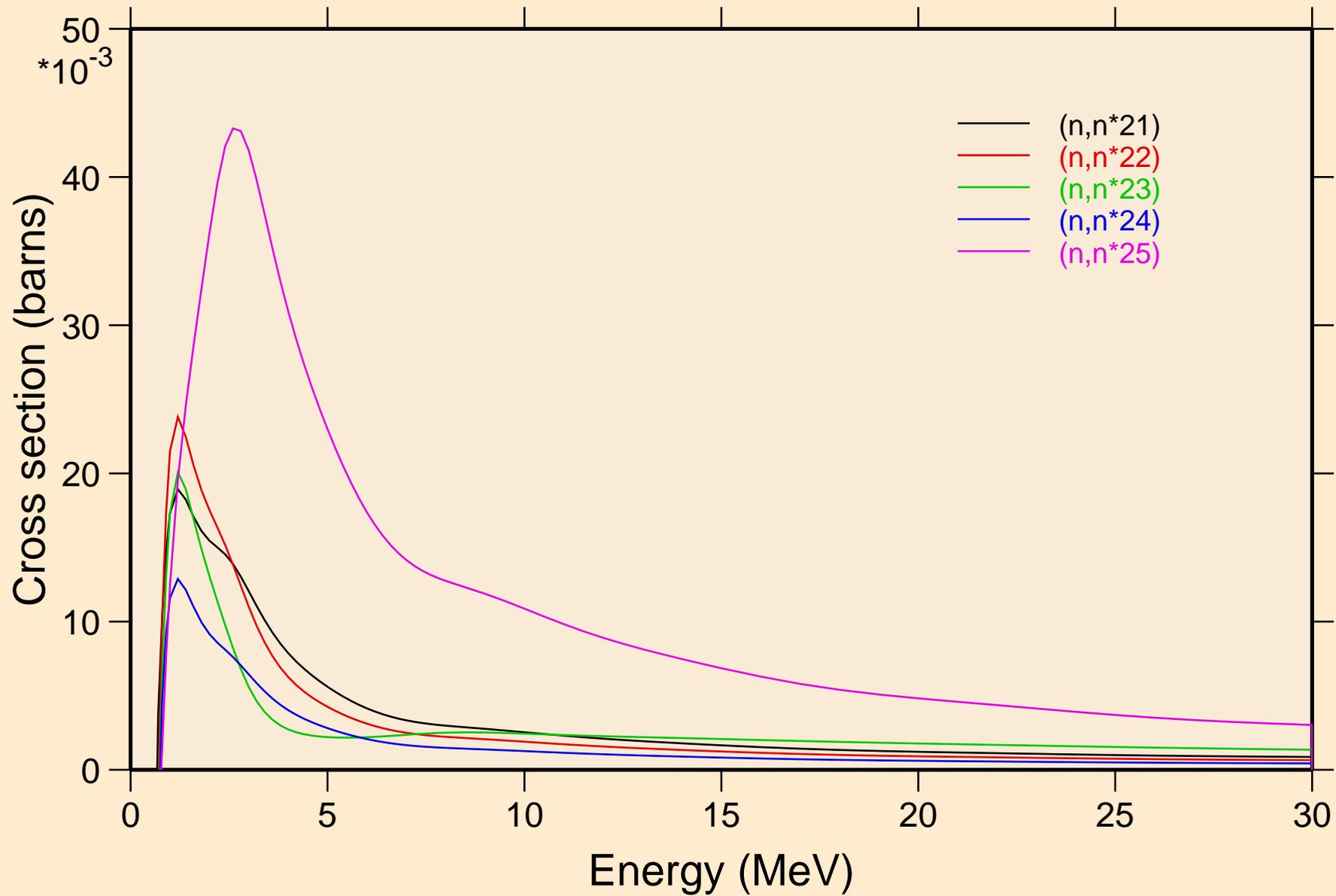
## Inelastic levels



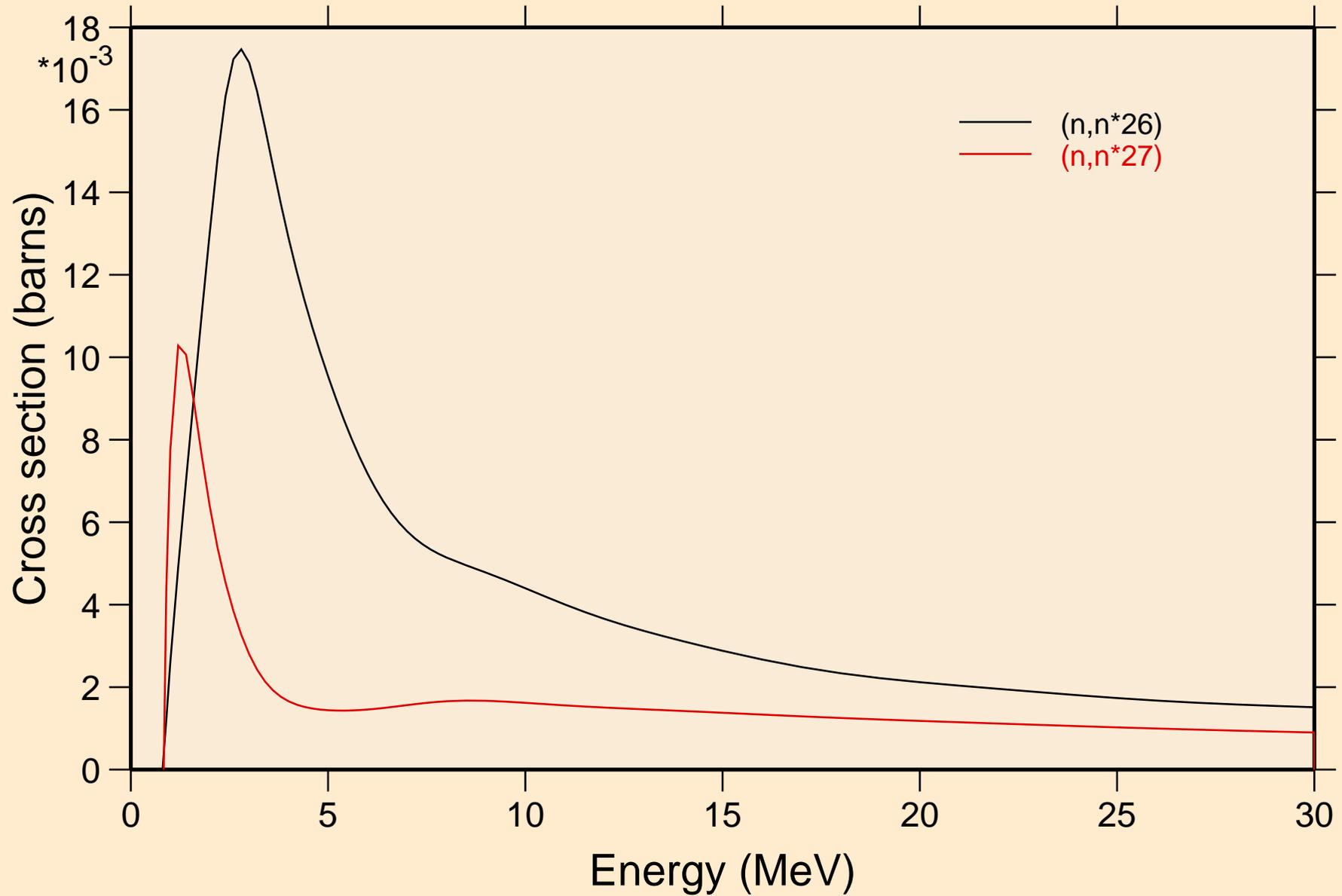
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Inelastic levels



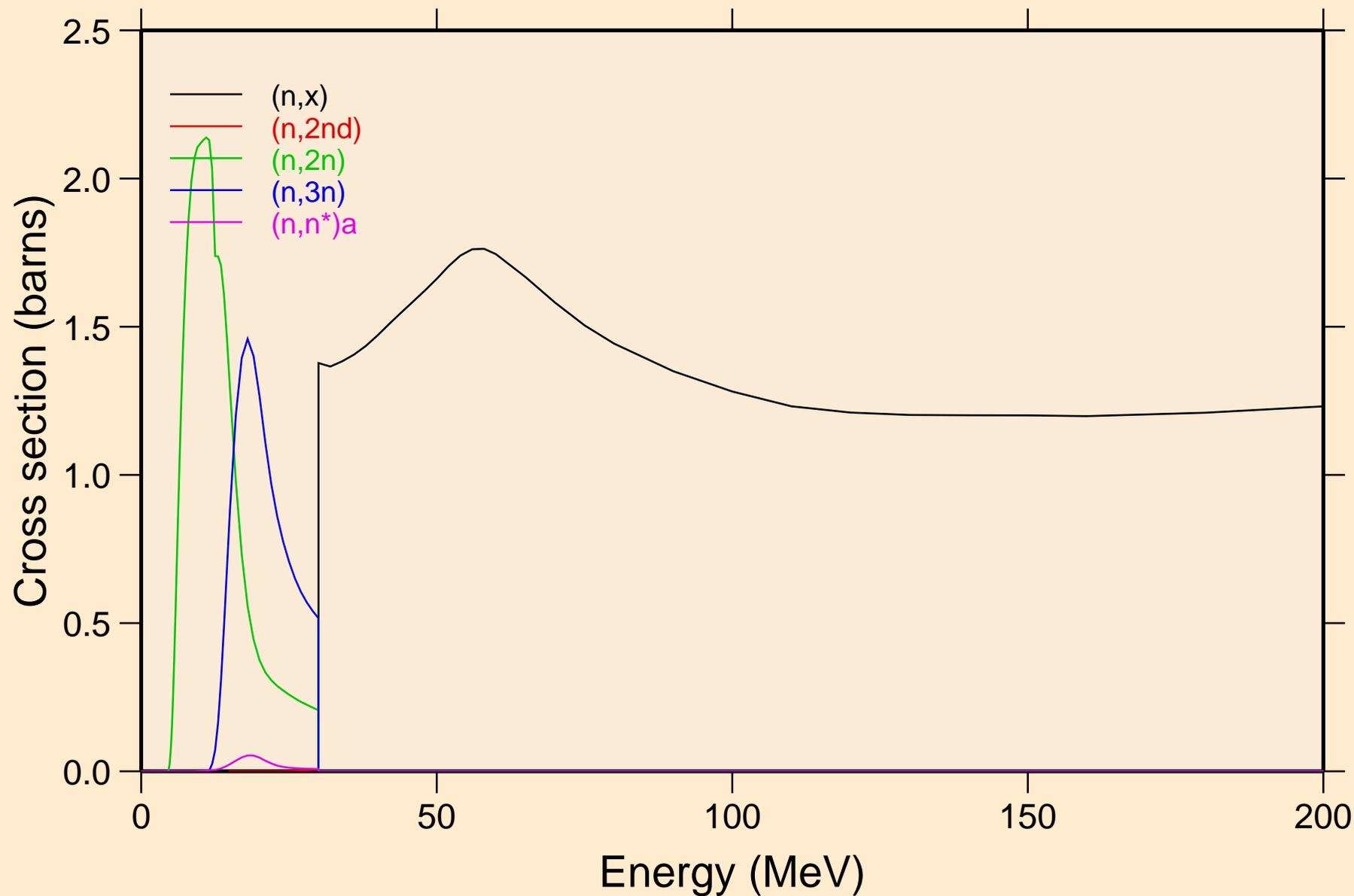
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Inelastic levels



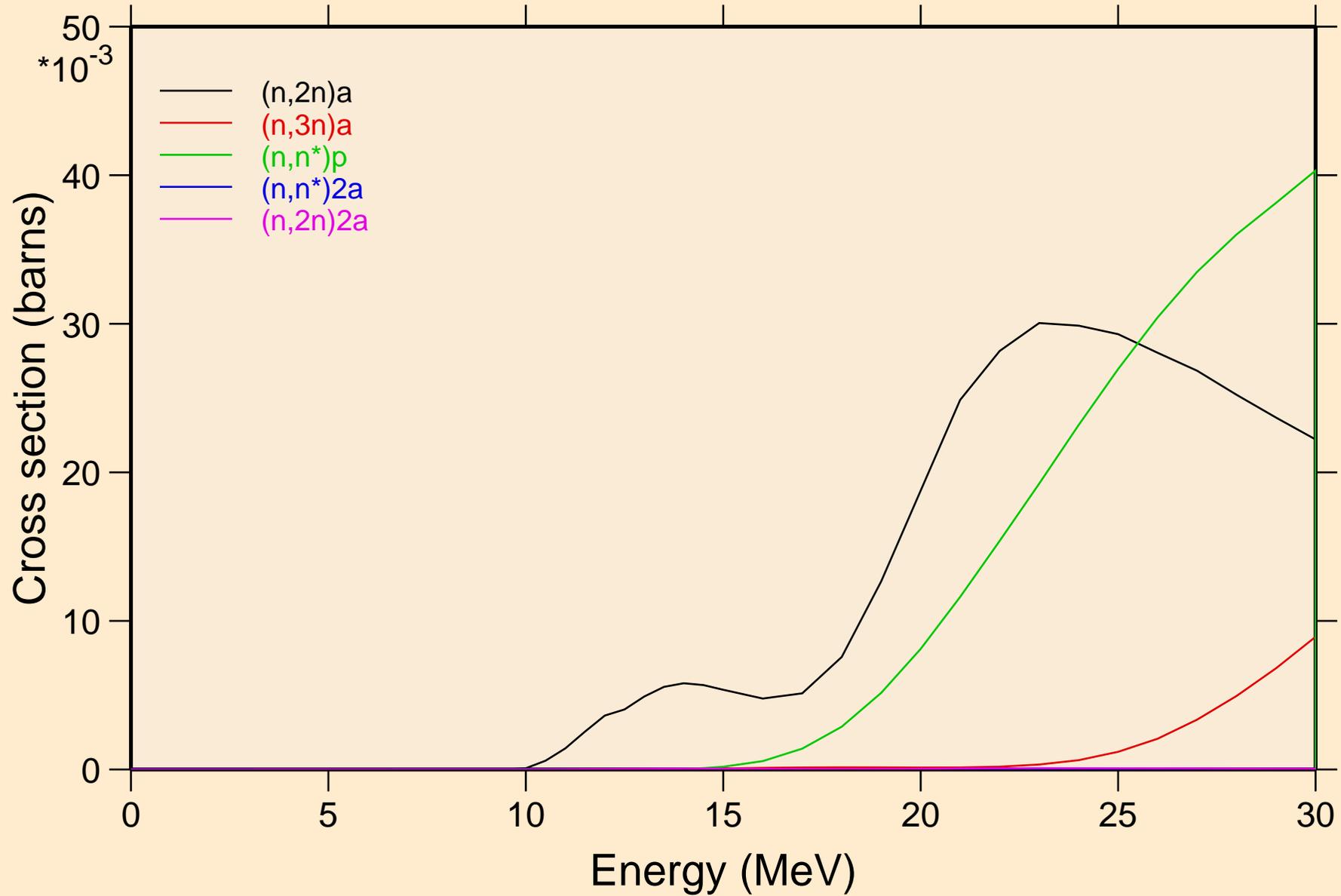
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Inelastic levels



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Threshold reactions

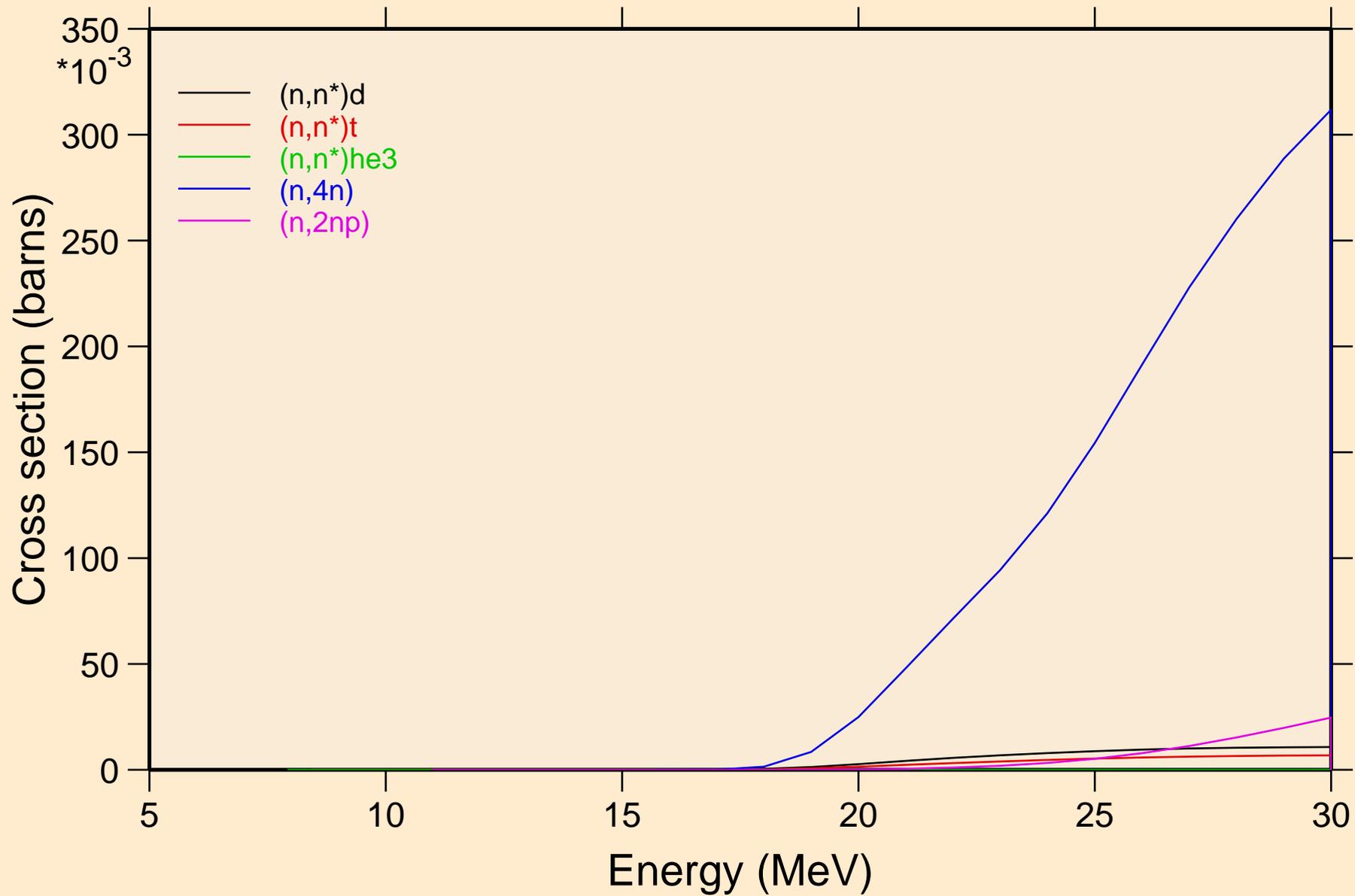


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Threshold reactions



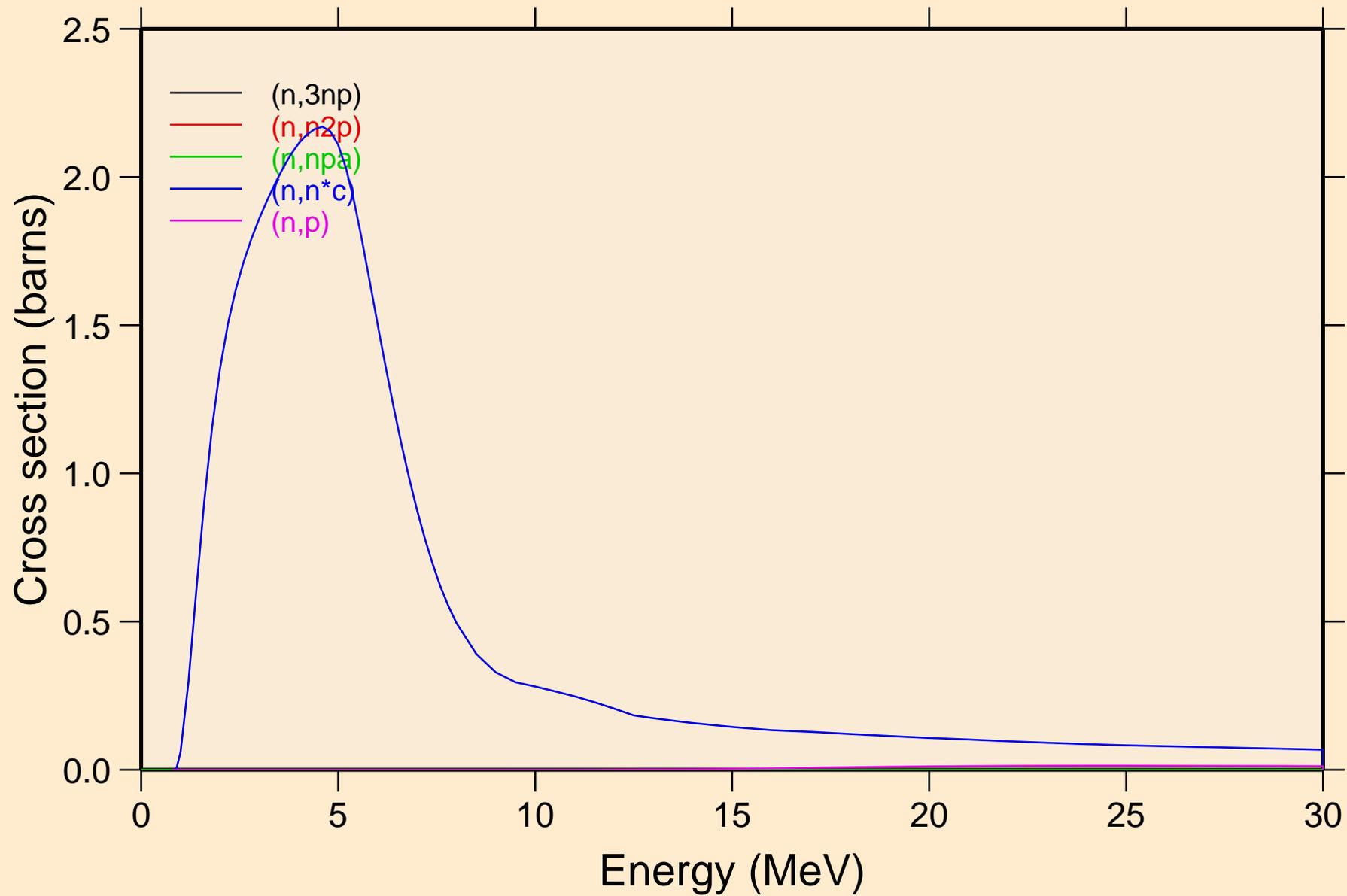
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## Threshold reactions

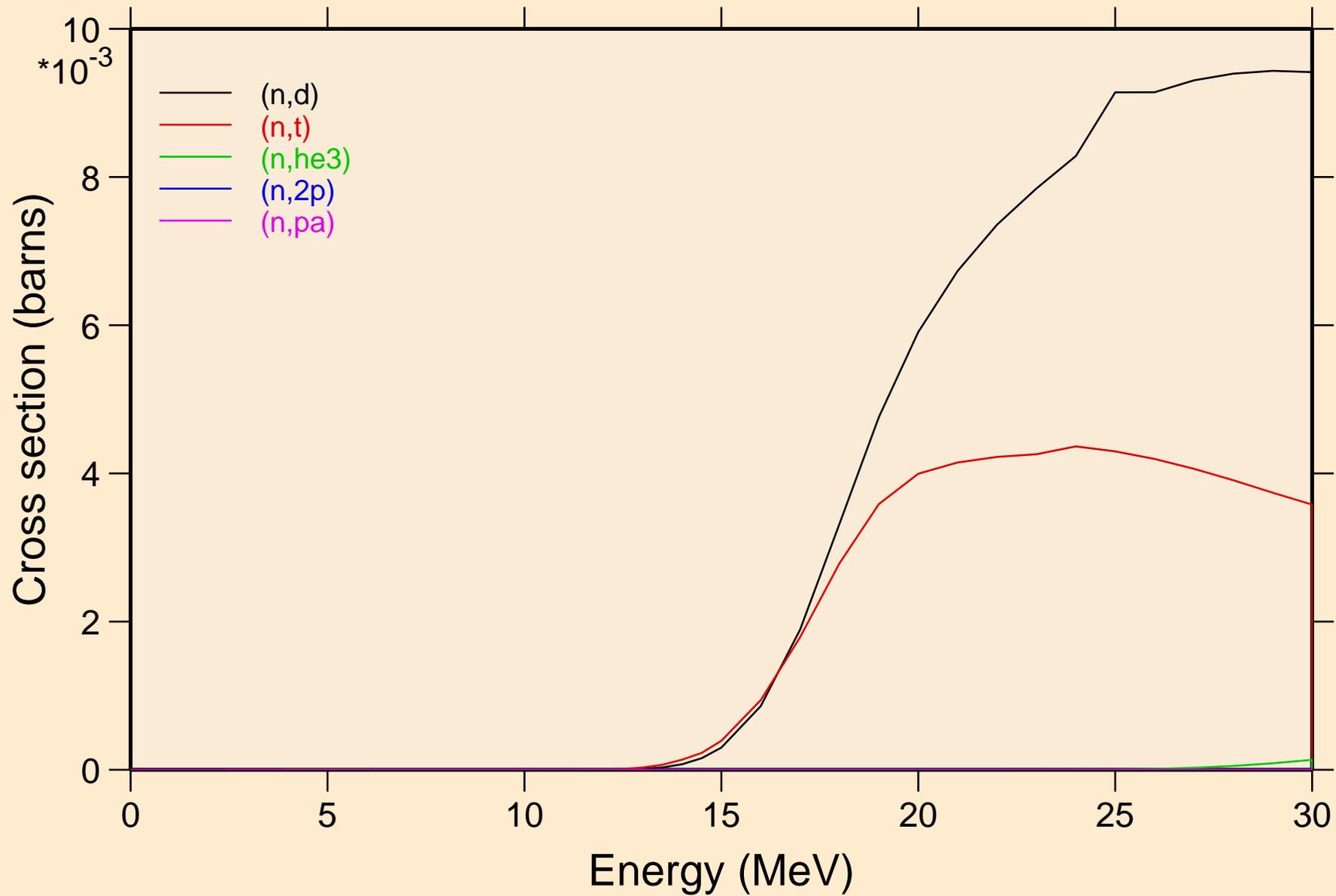


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## Threshold reactions

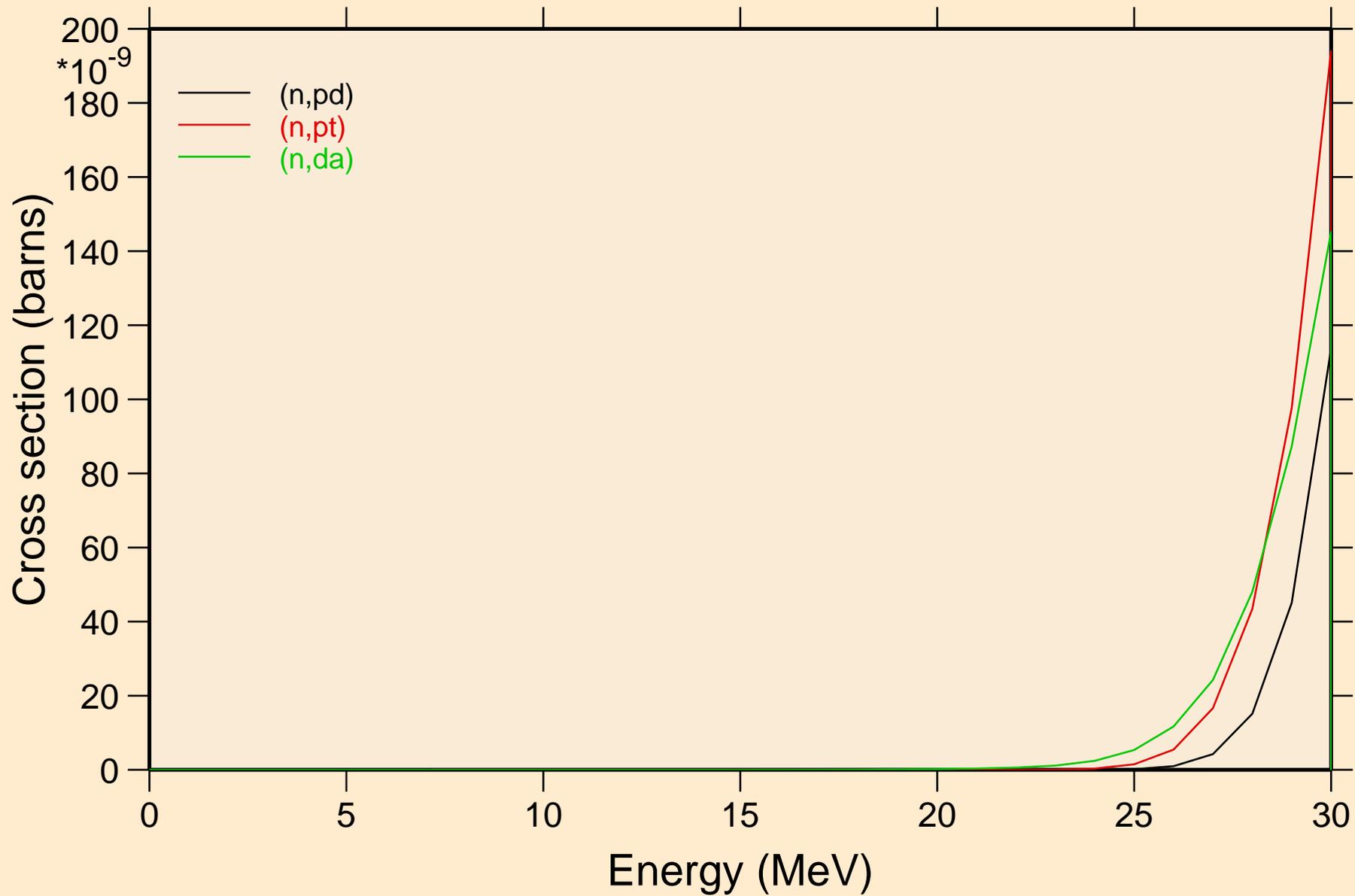


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Threshold reactions



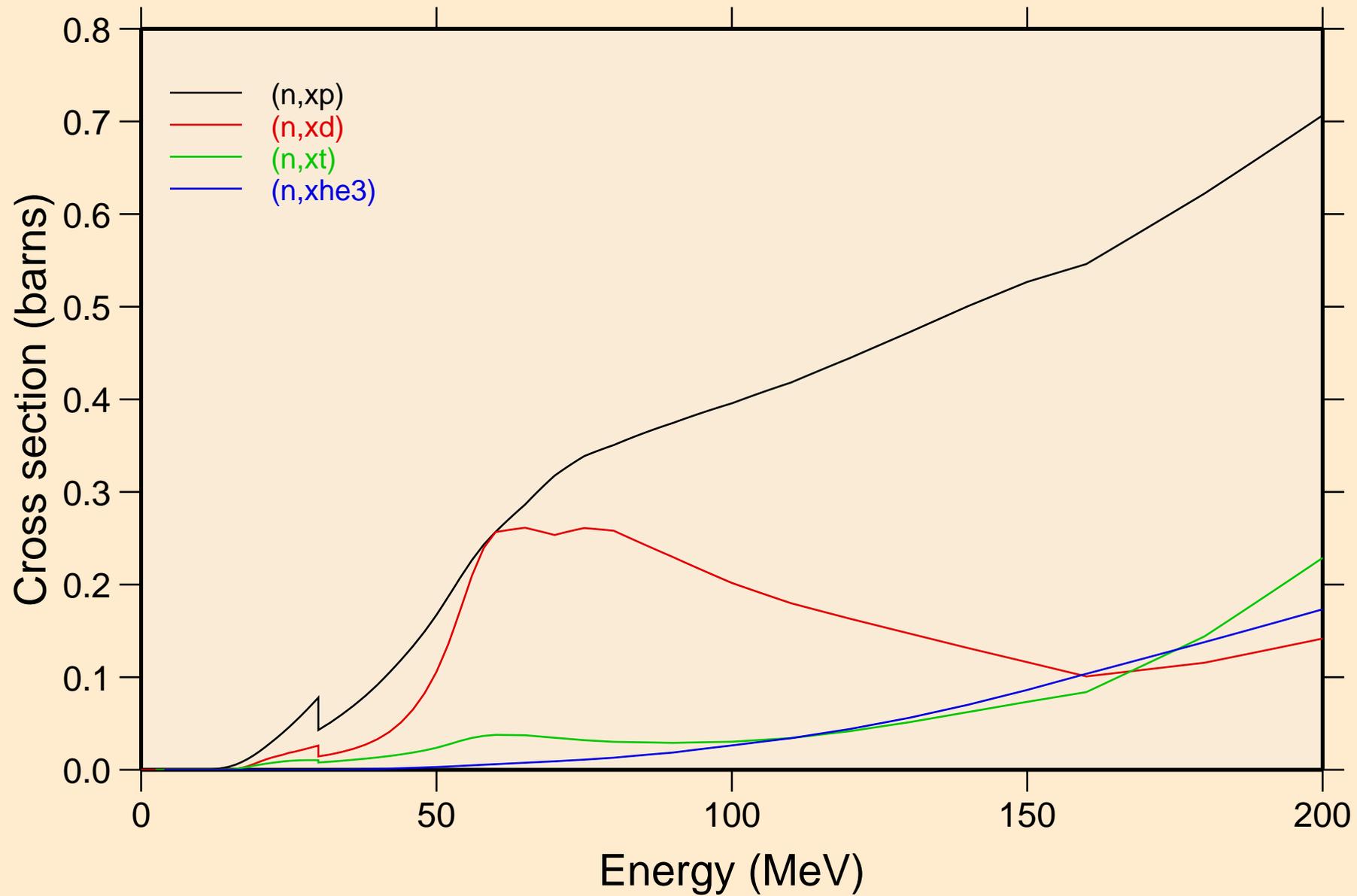
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## Threshold reactions

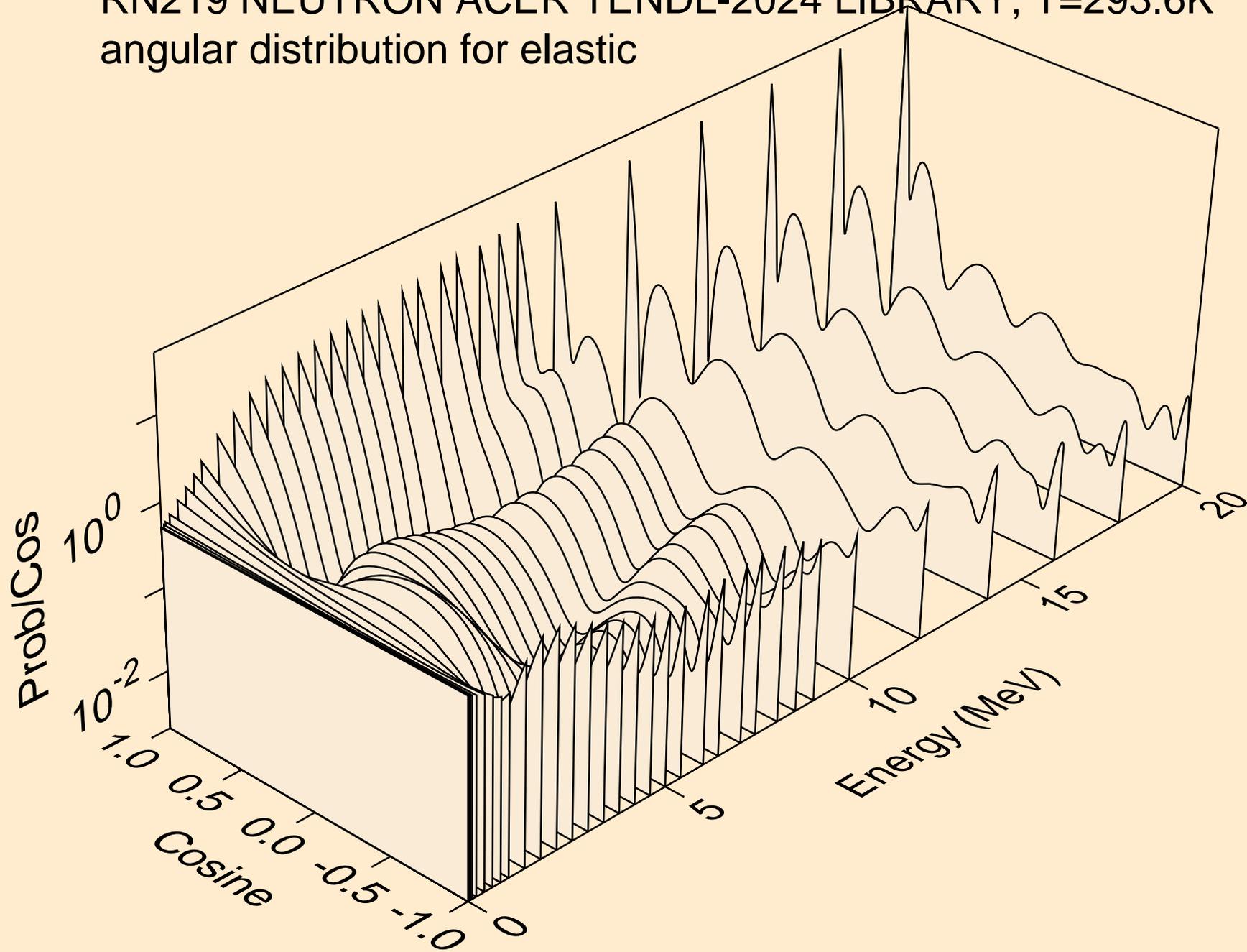


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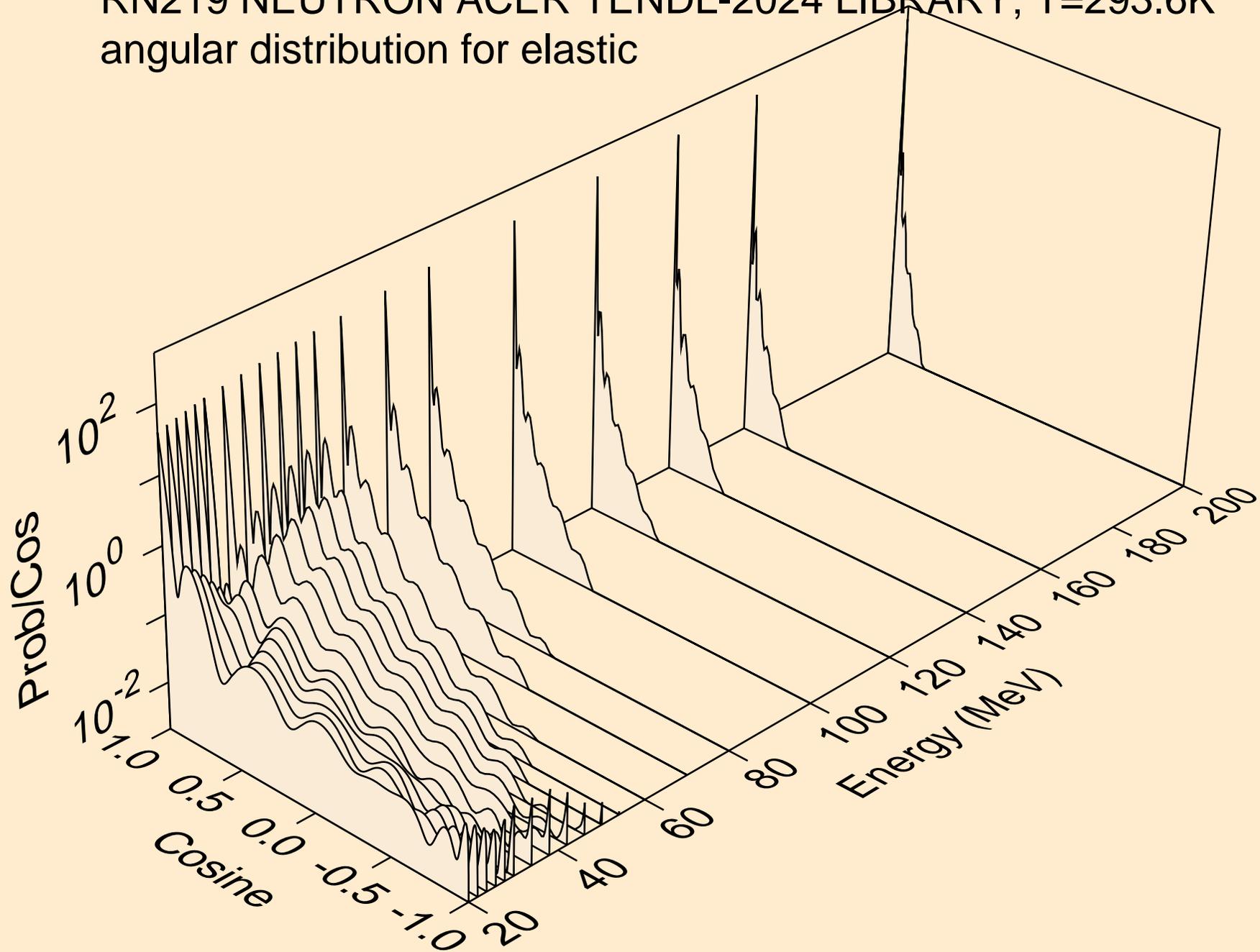
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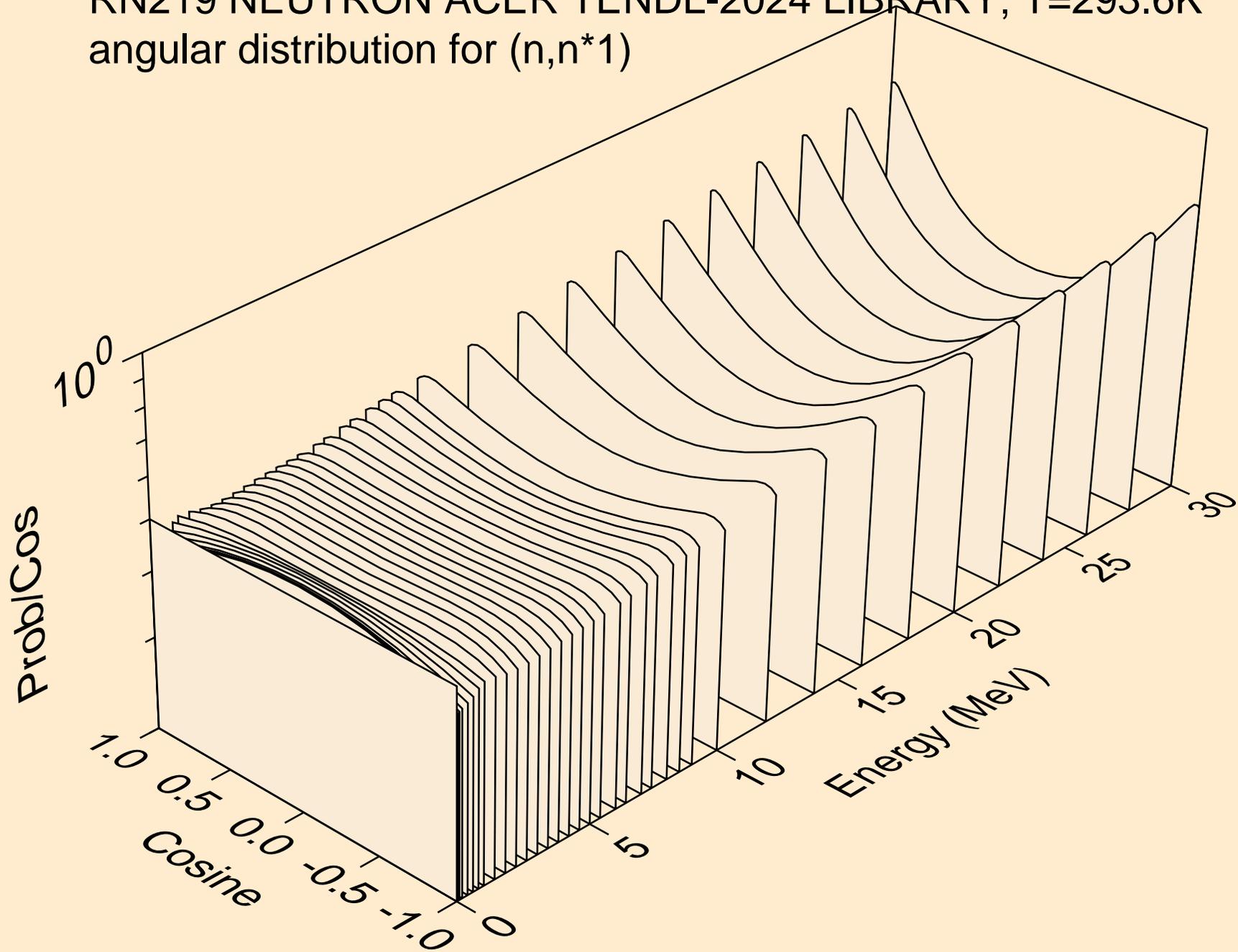
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angular distribution for elastic



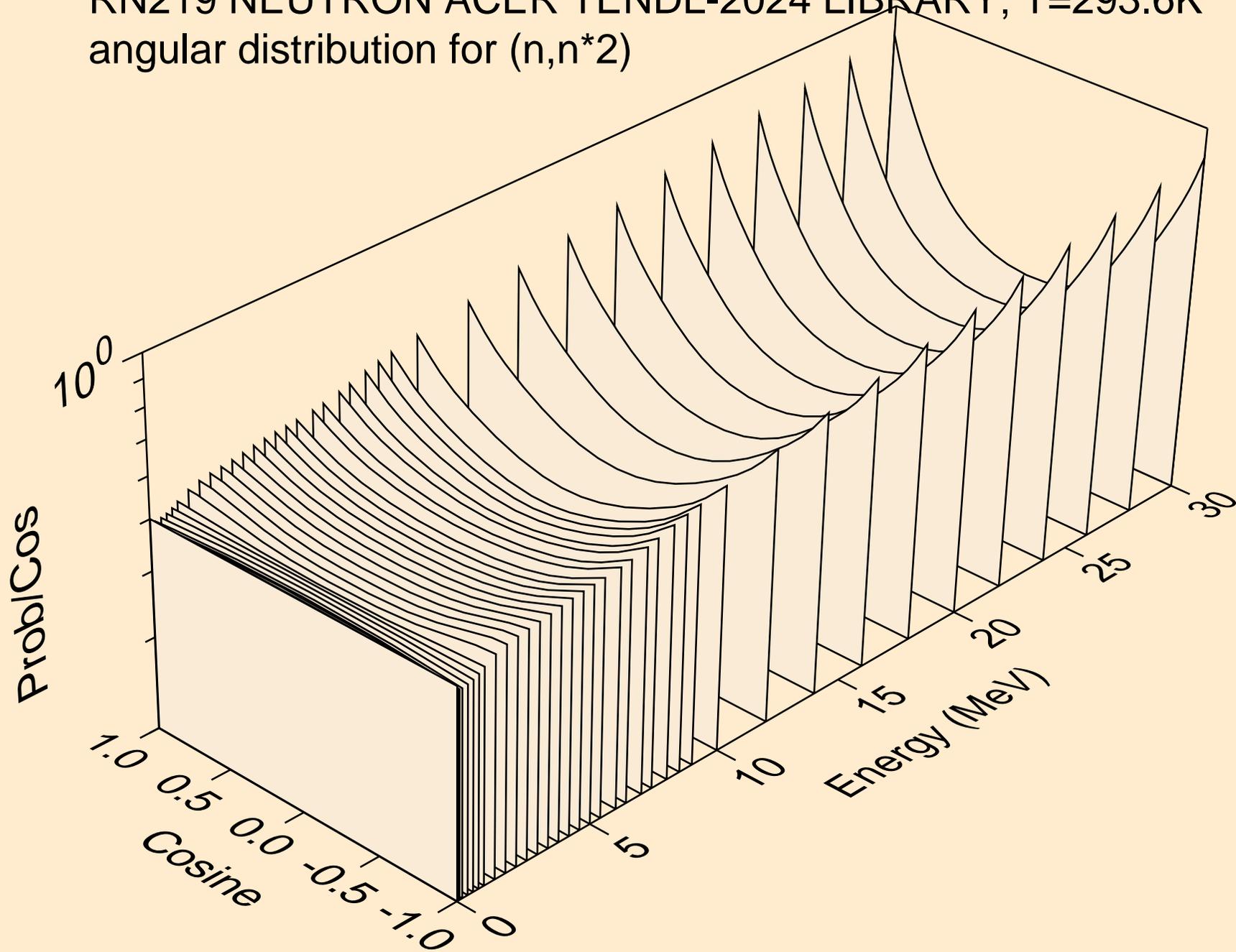
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angular distribution for elastic



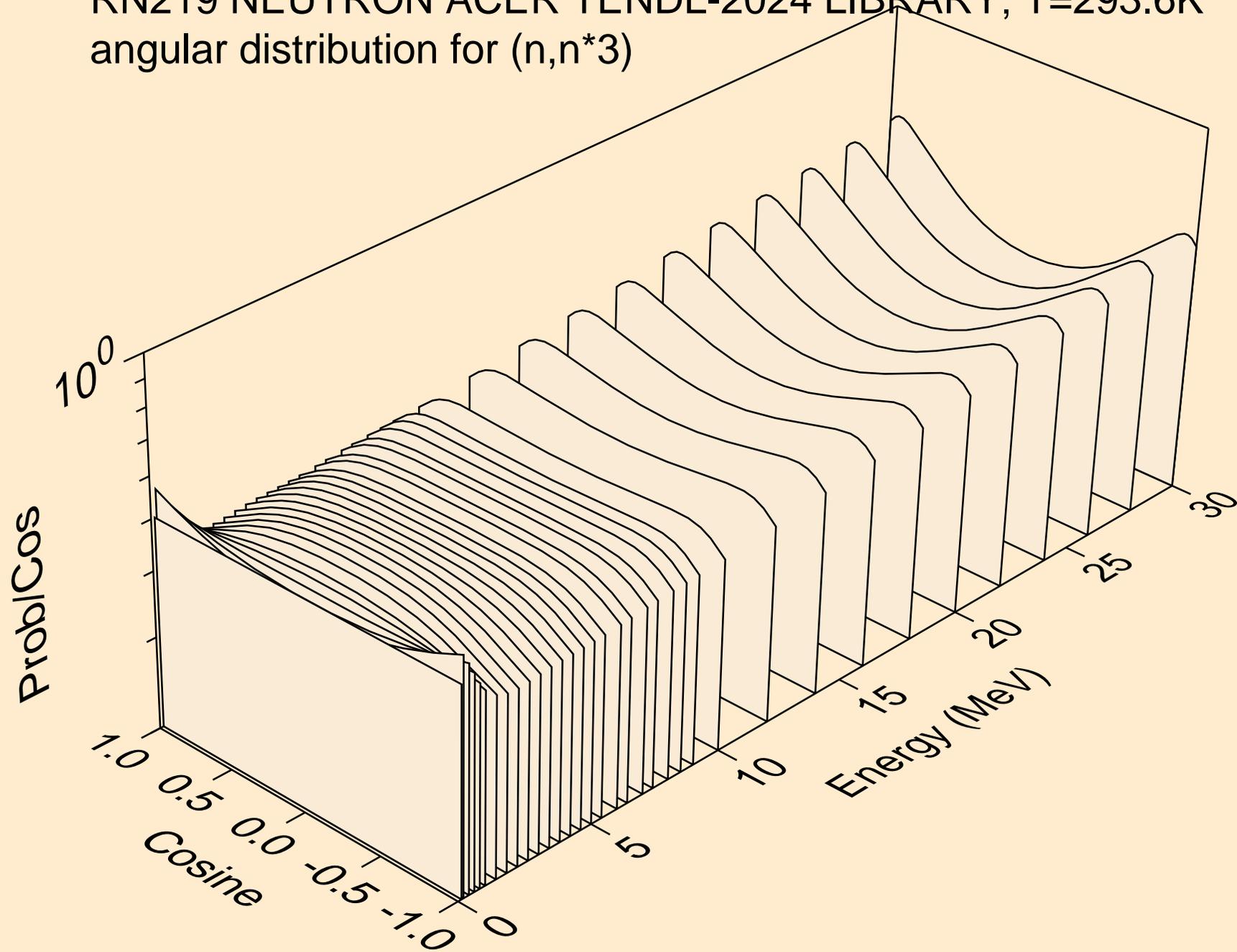
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angular distribution for (n,n\*1)



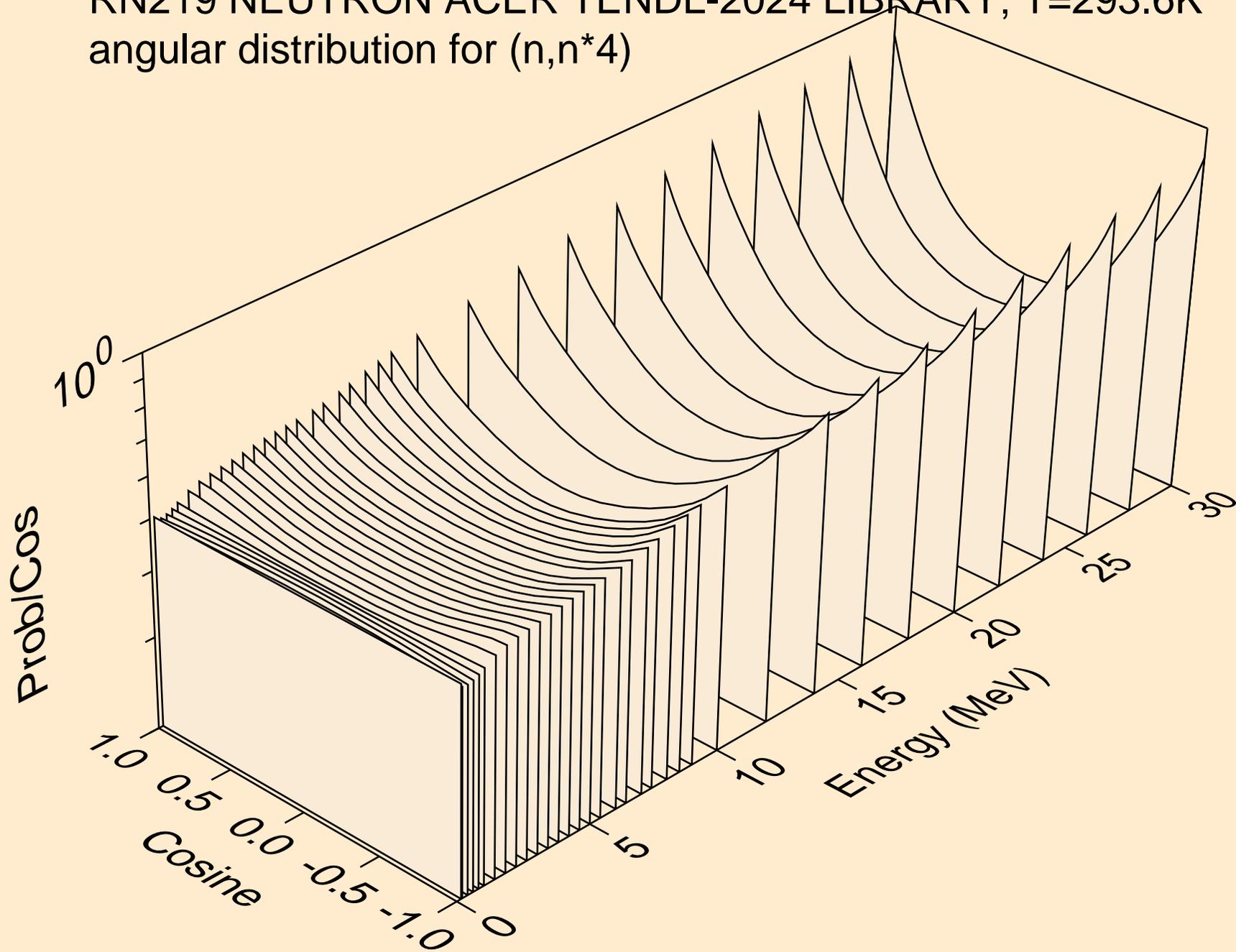
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angular distribution for (n,n\*2)



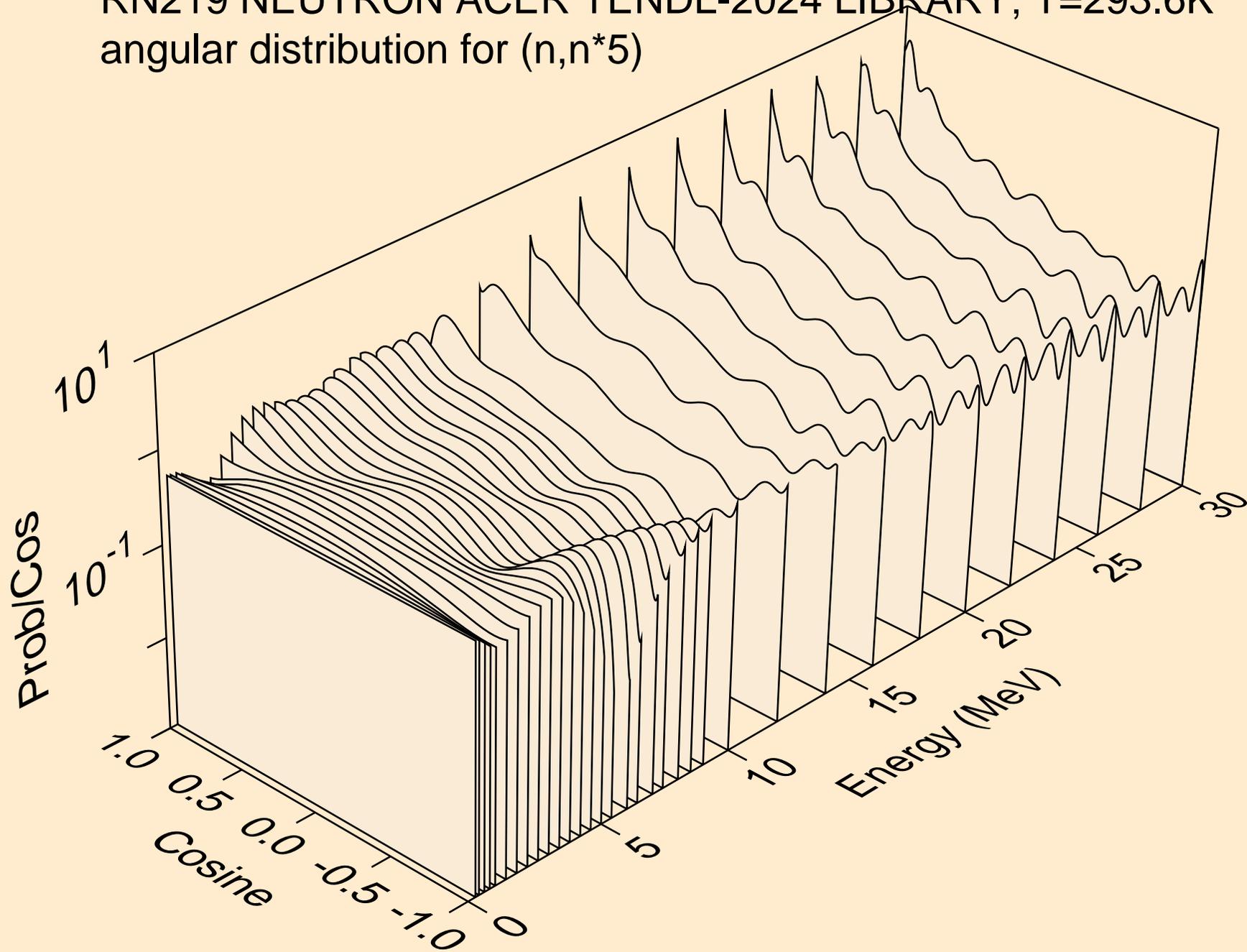
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angular distribution for (n,n\*3)



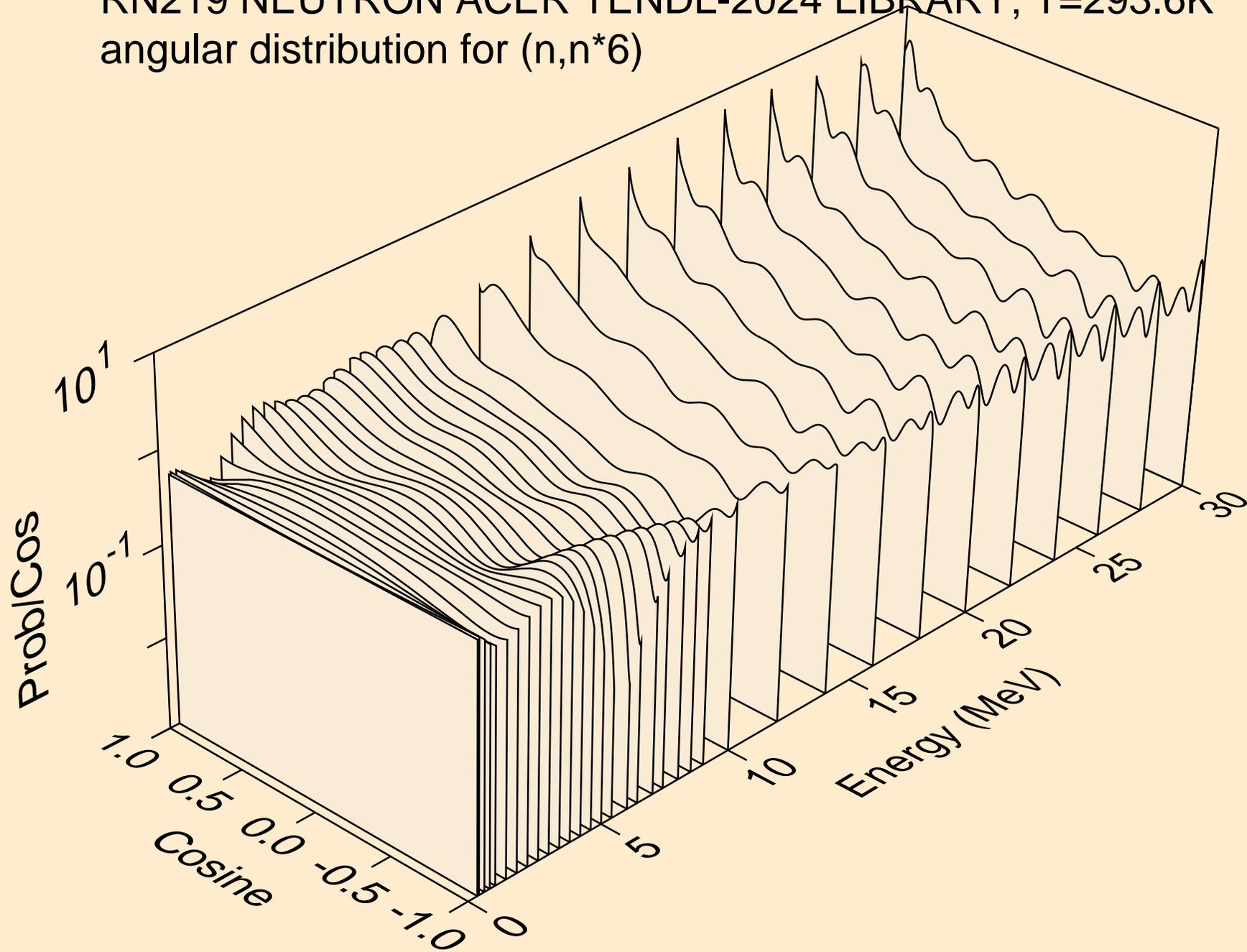
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angular distribution for (n,n\*4)



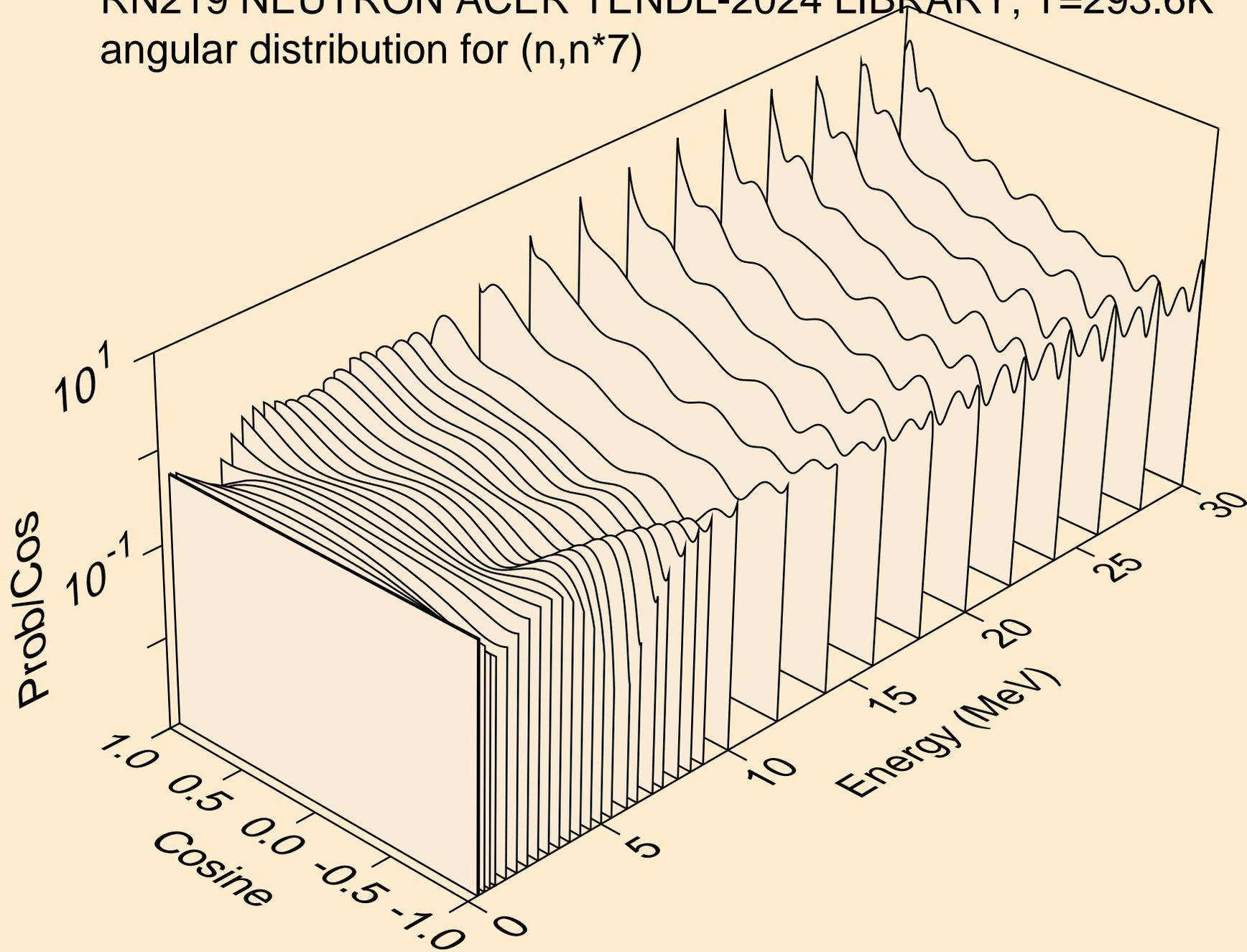
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angular distribution for (n,n\*5)



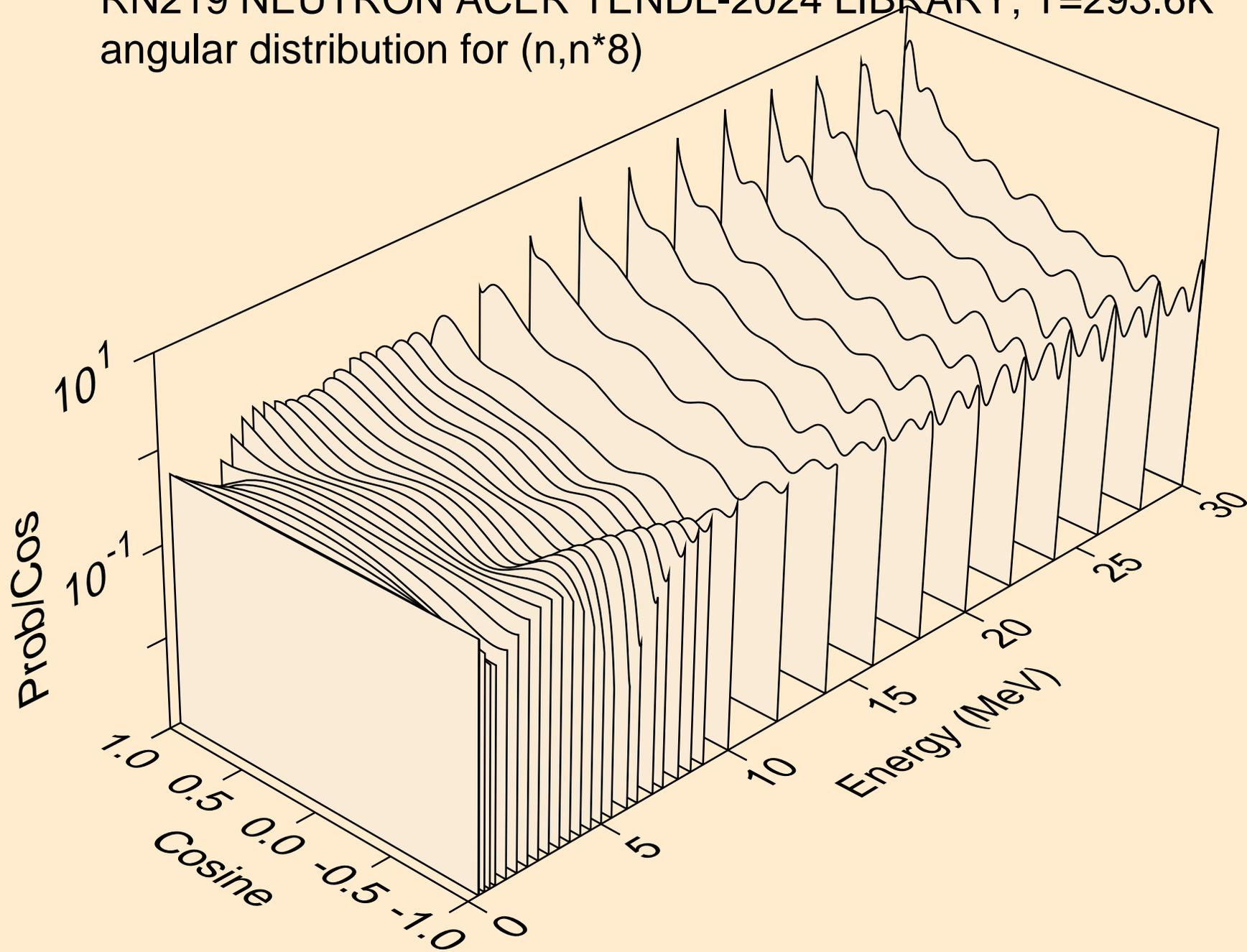
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angular distribution for (n,n\*6)



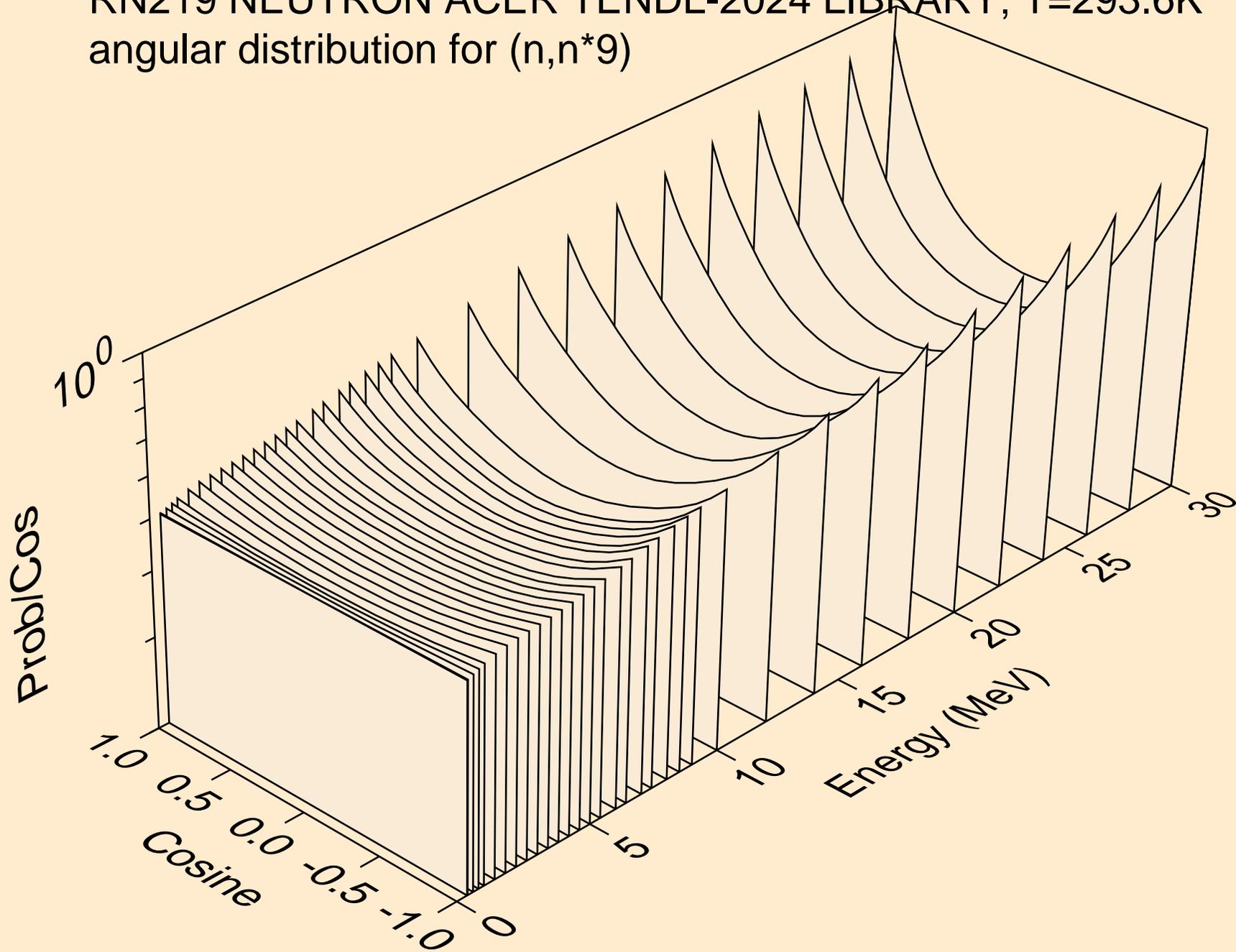
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angular distribution for (n,n\*7)



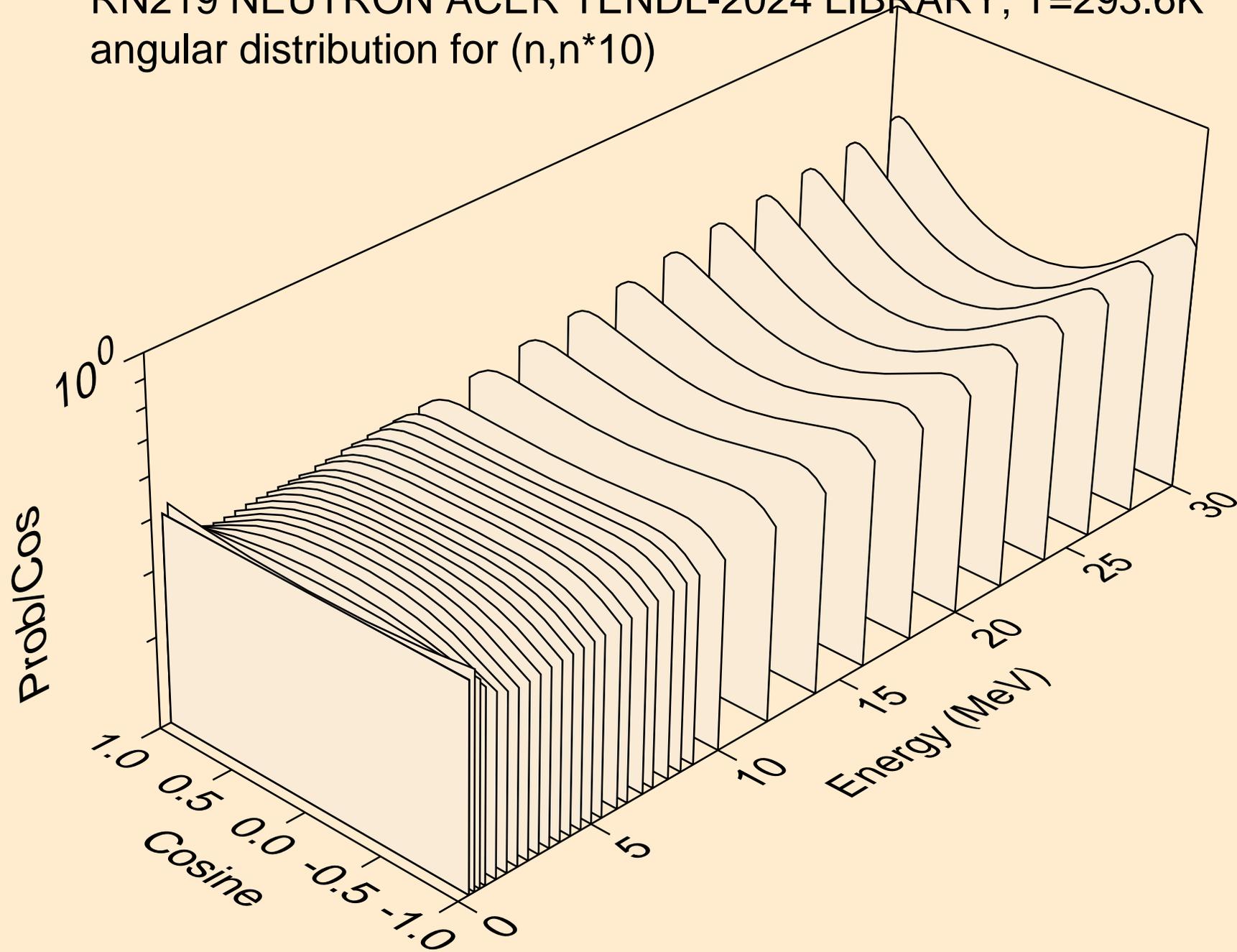
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angular distribution for (n,n\*8)



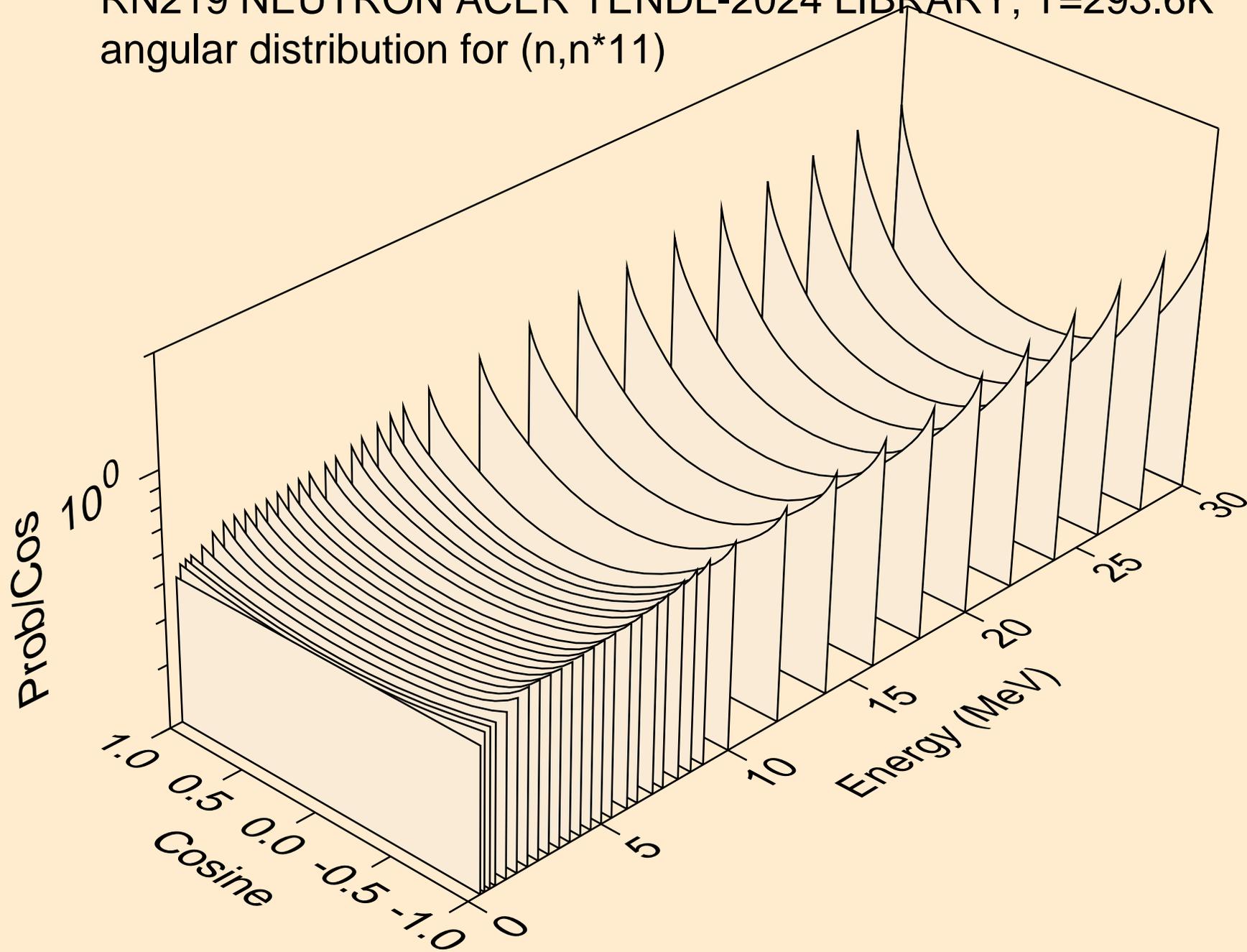
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angular distribution for (n,n\*9)



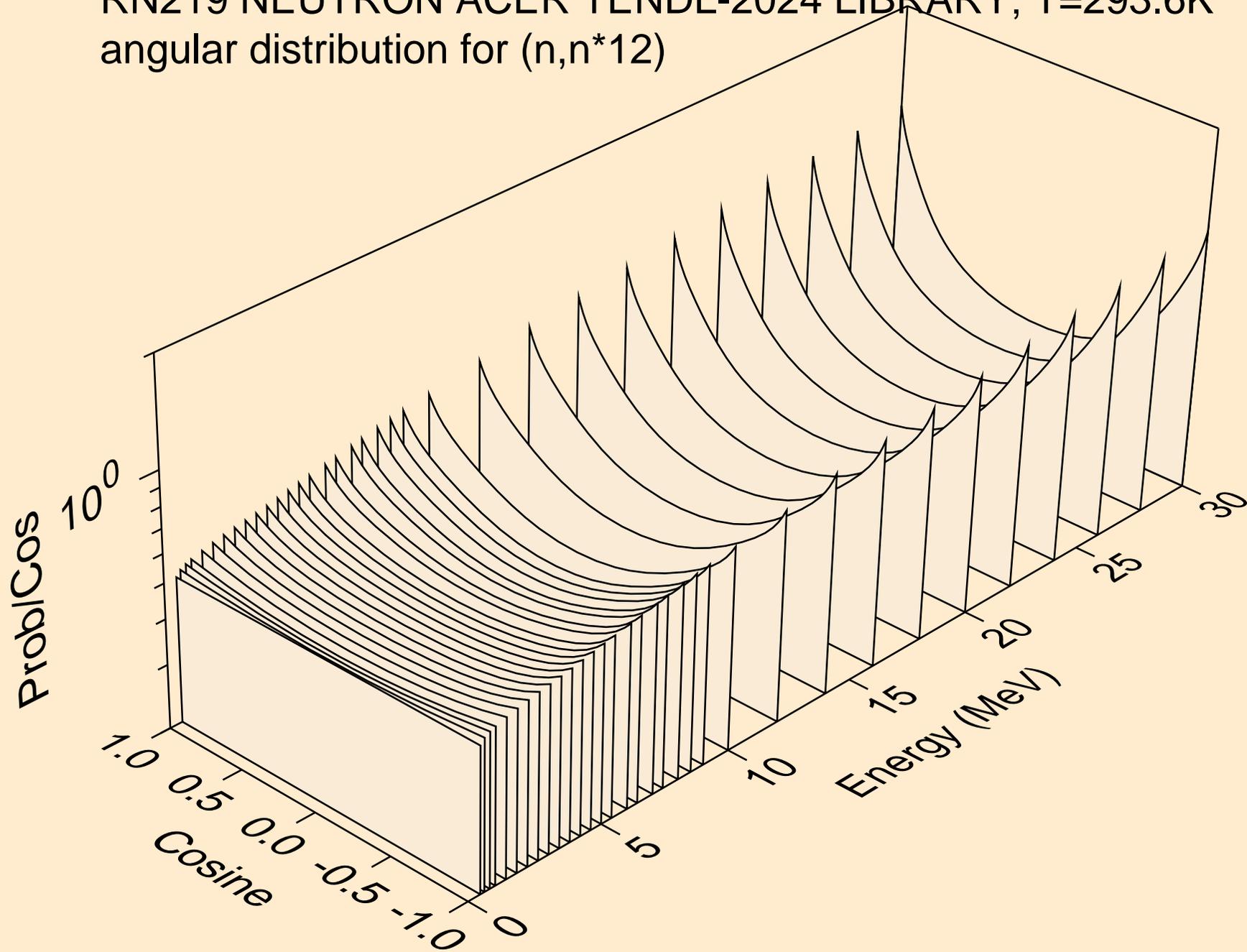
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angular distribution for (n,n\*10)



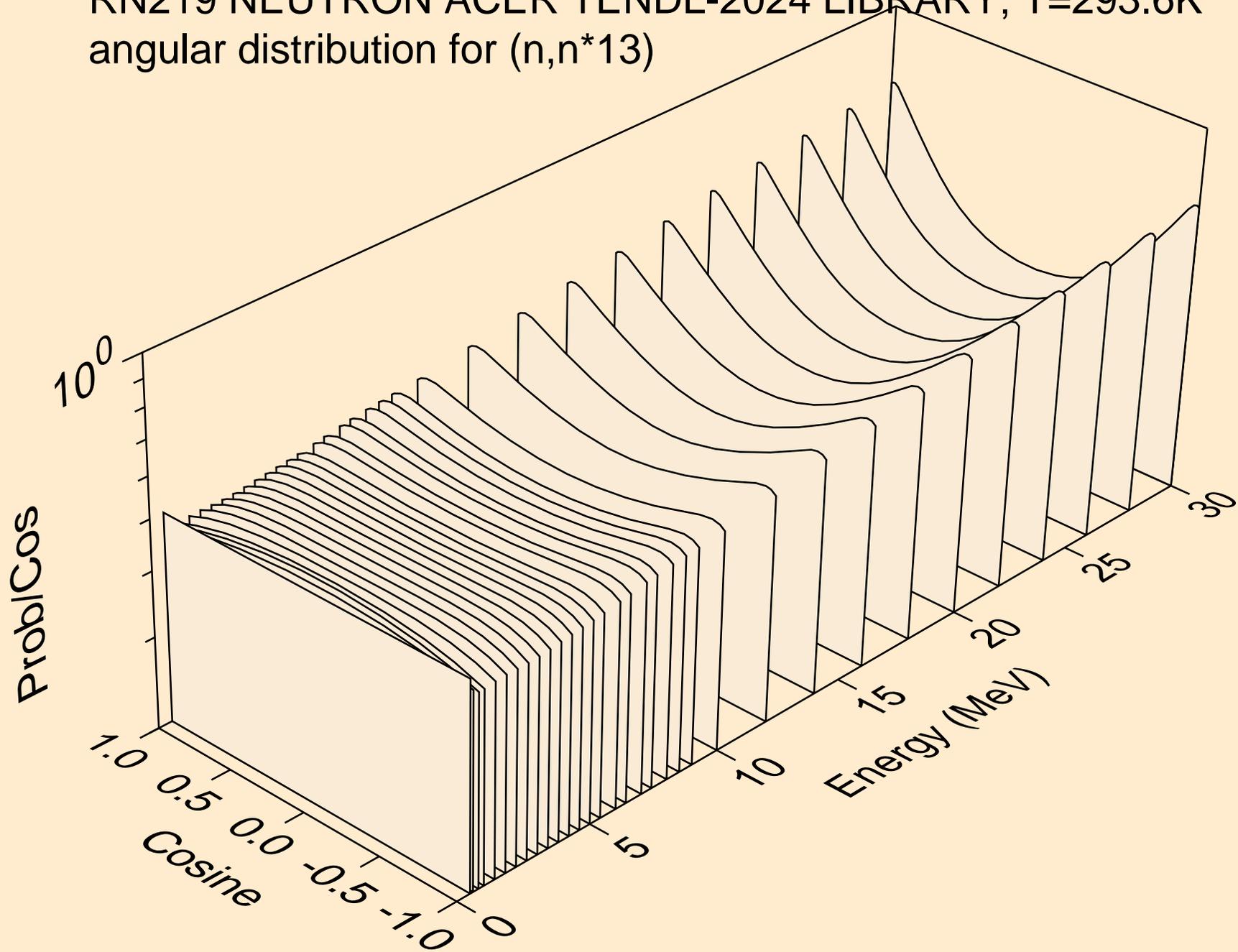
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angular distribution for (n,n\*11)



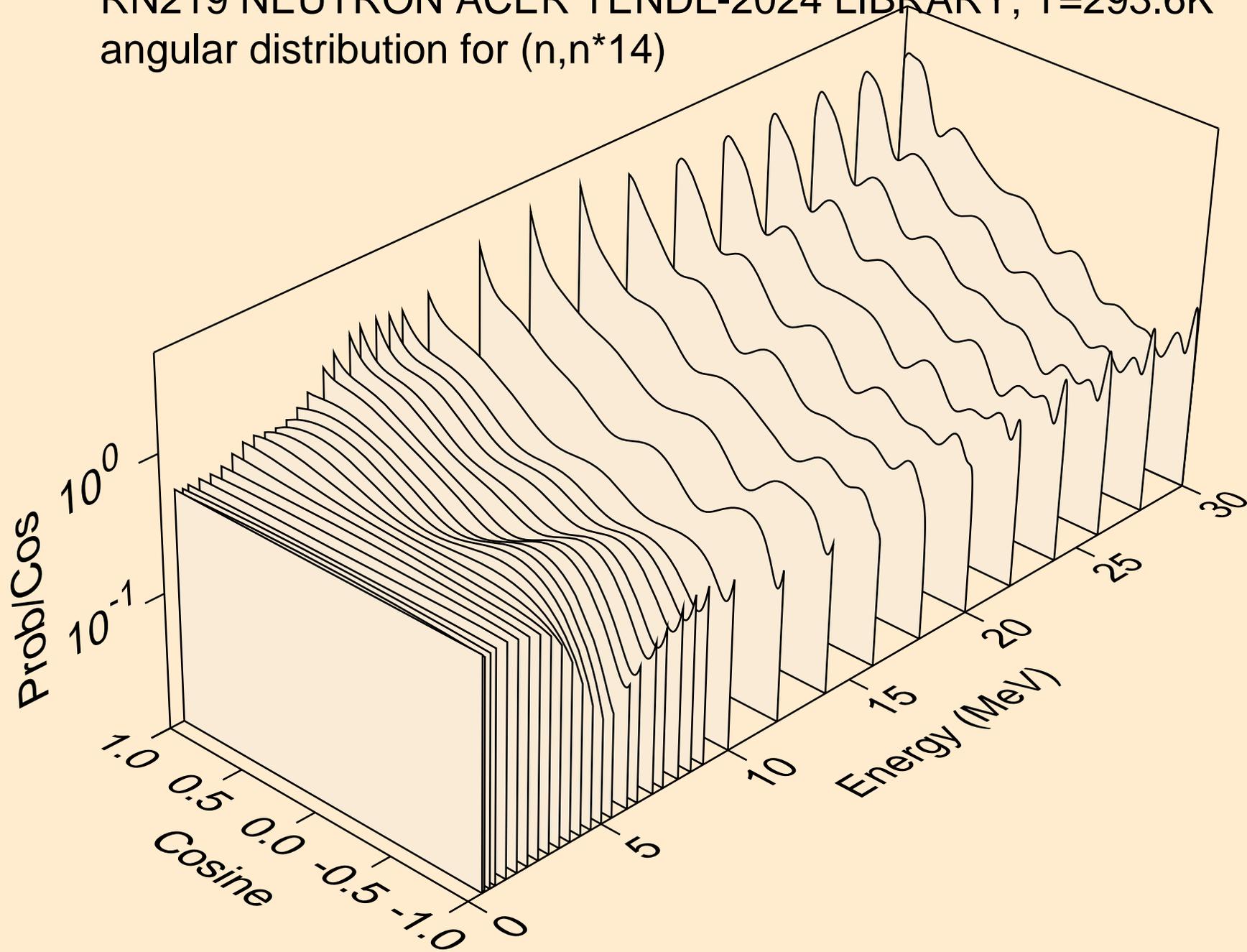
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angular distribution for (n,n\*12)



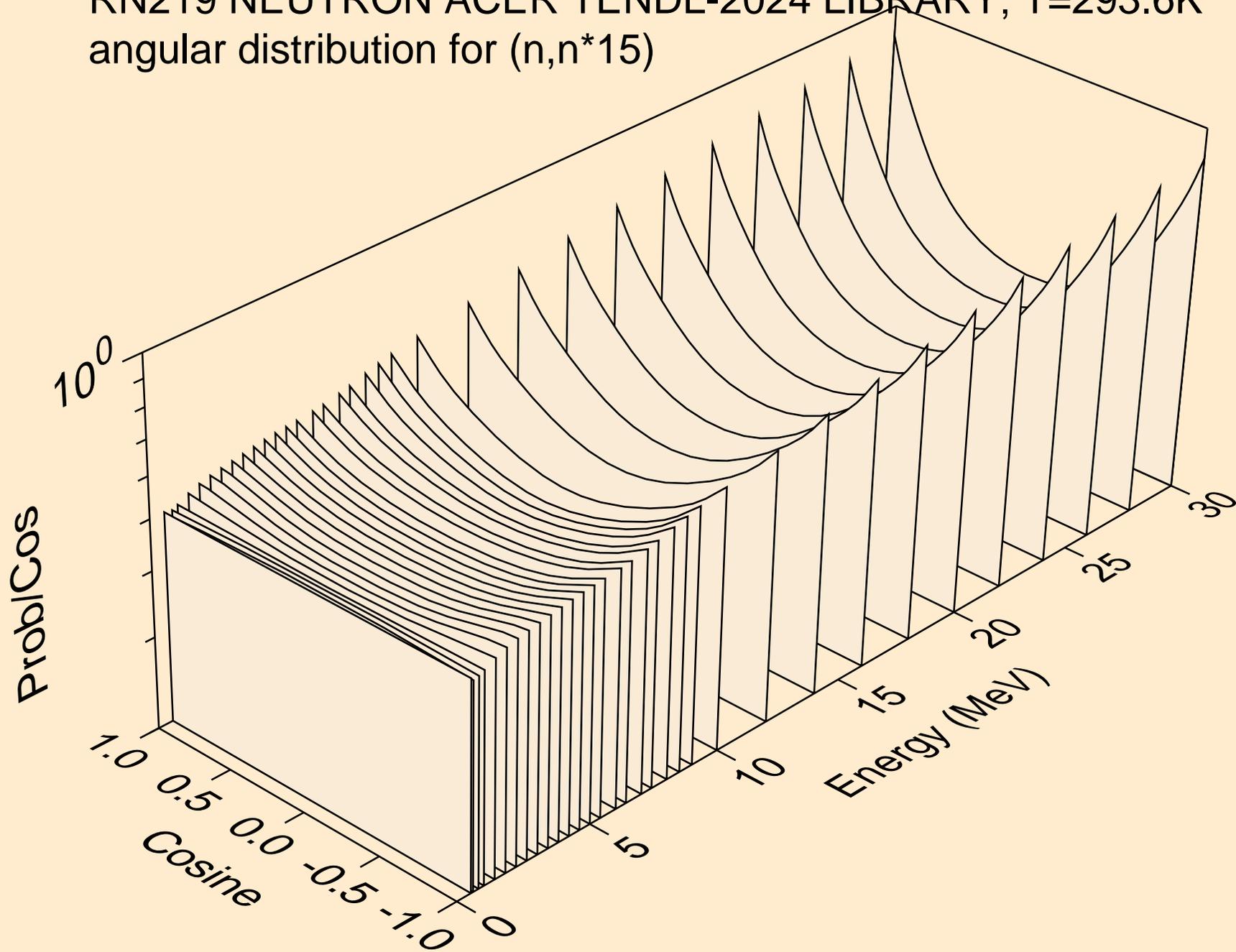
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angular distribution for (n,n\*13)



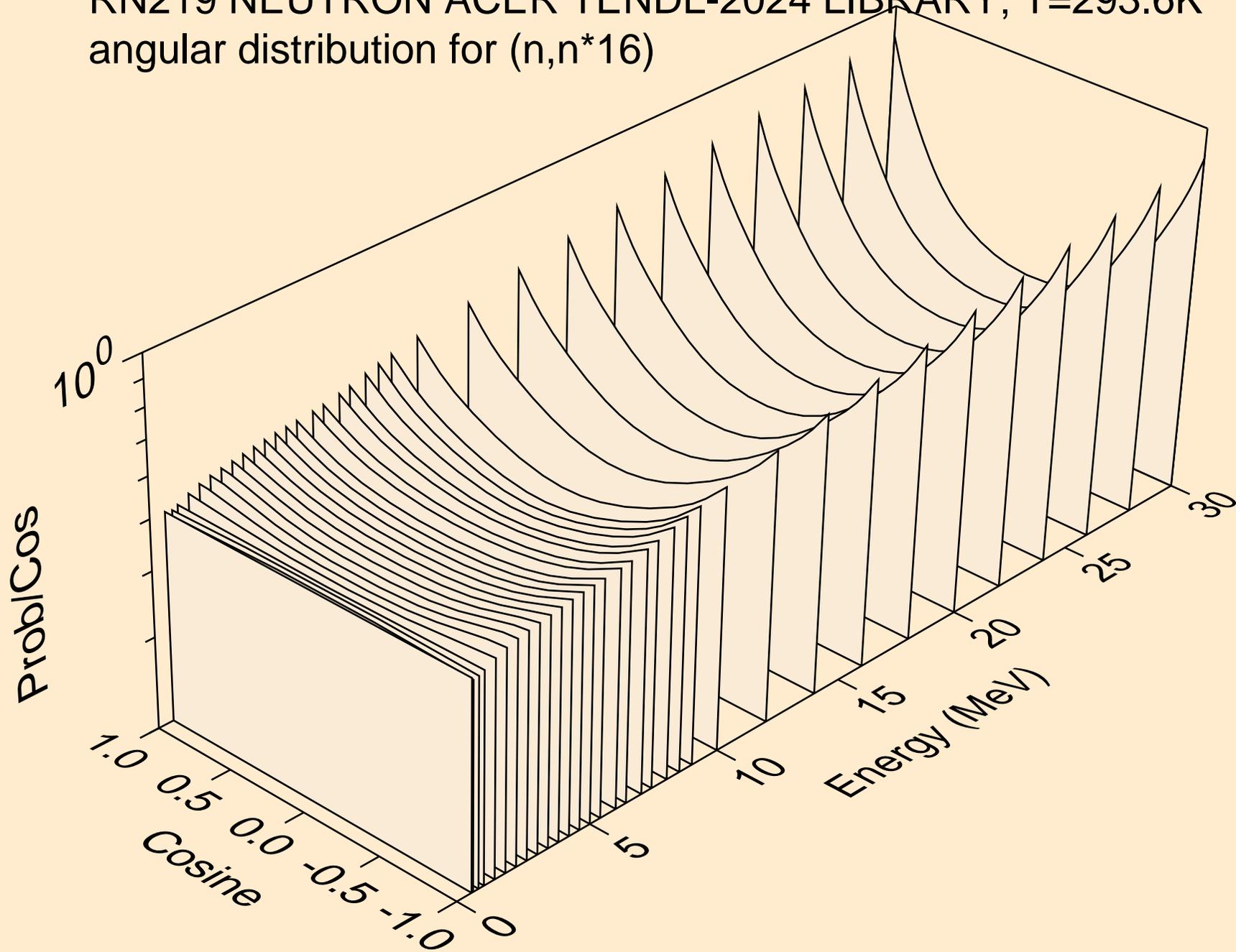
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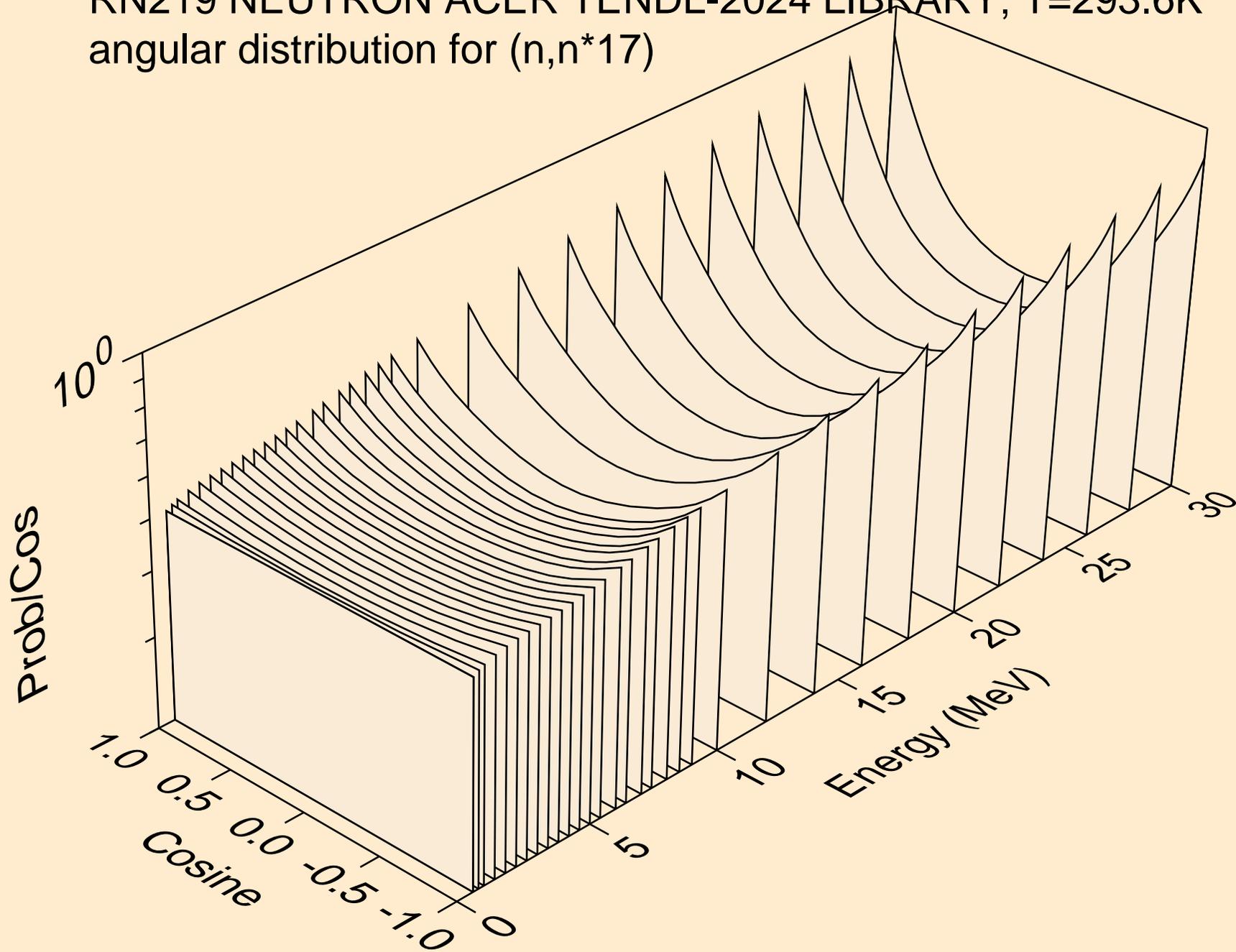
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angular distribution for (n,n\*15)



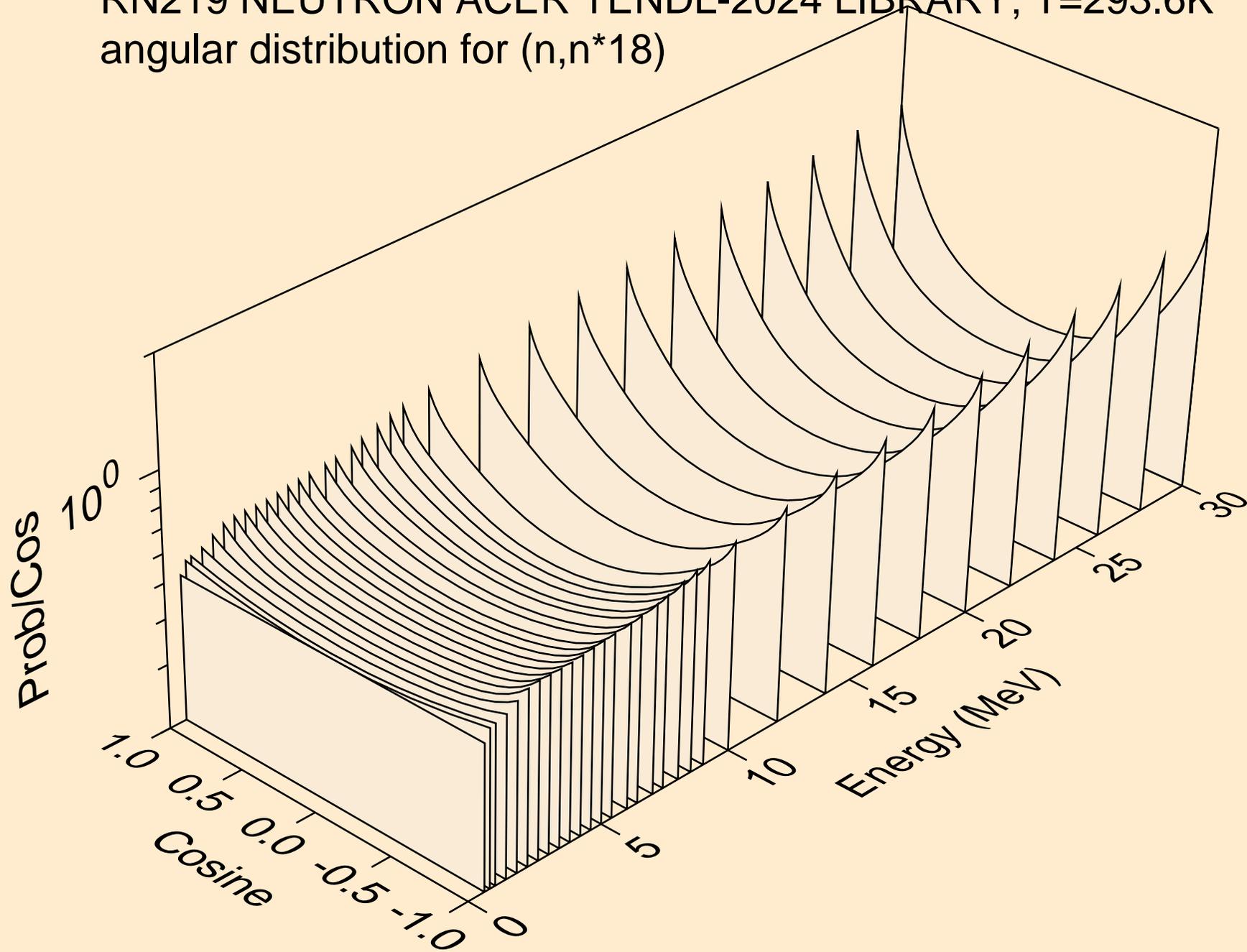
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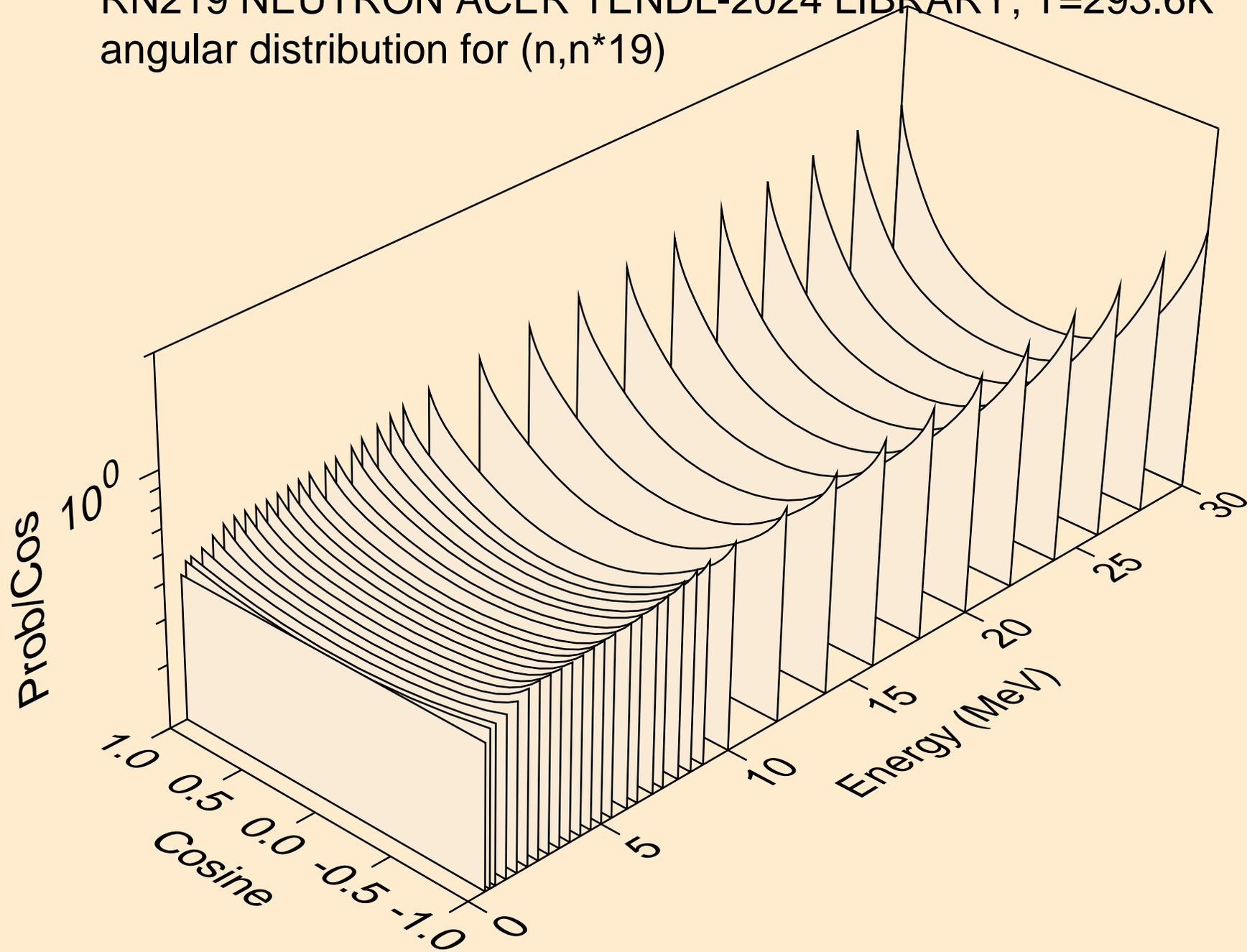
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angular distribution for (n,n\*17)



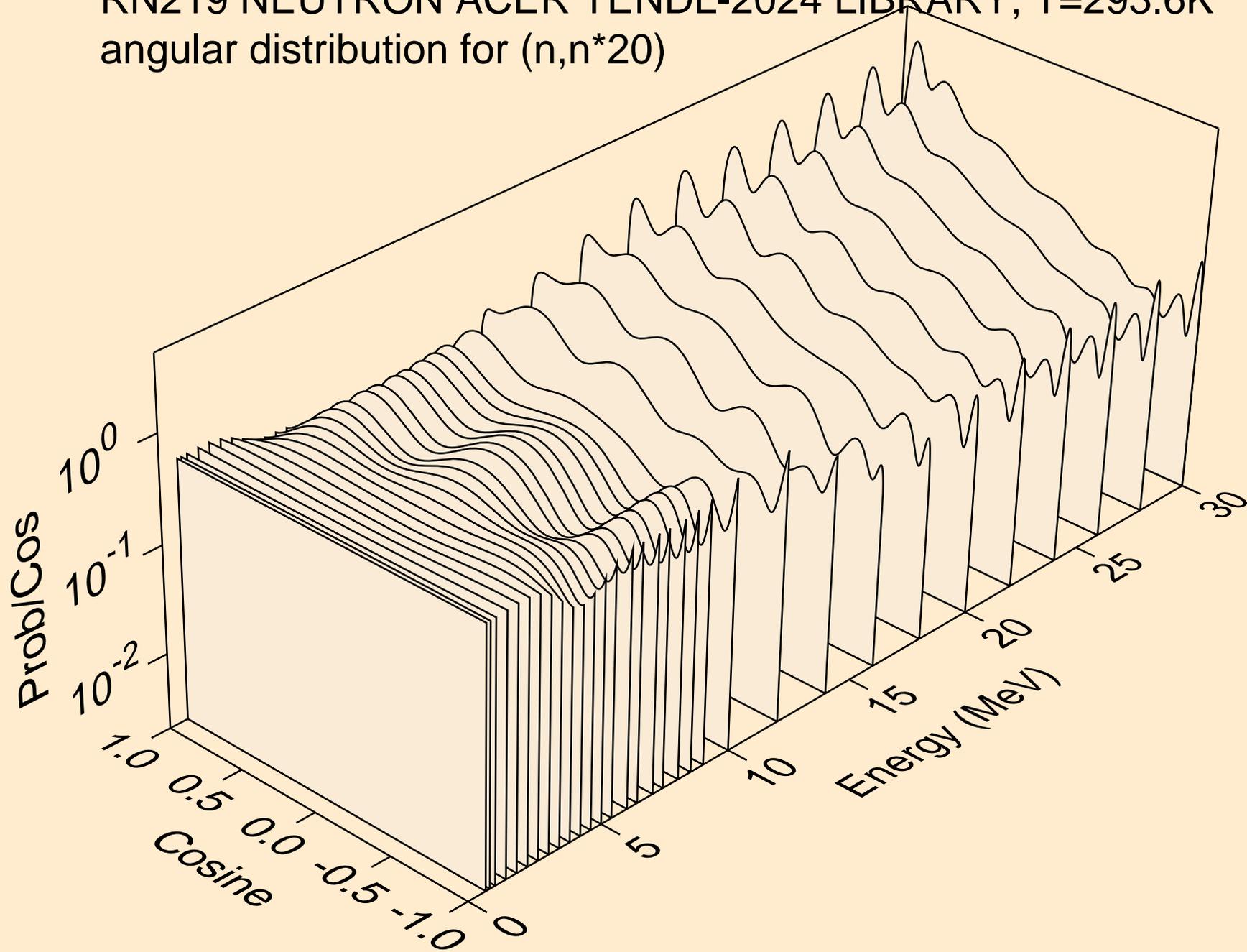
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angular distribution for (n,n\*18)



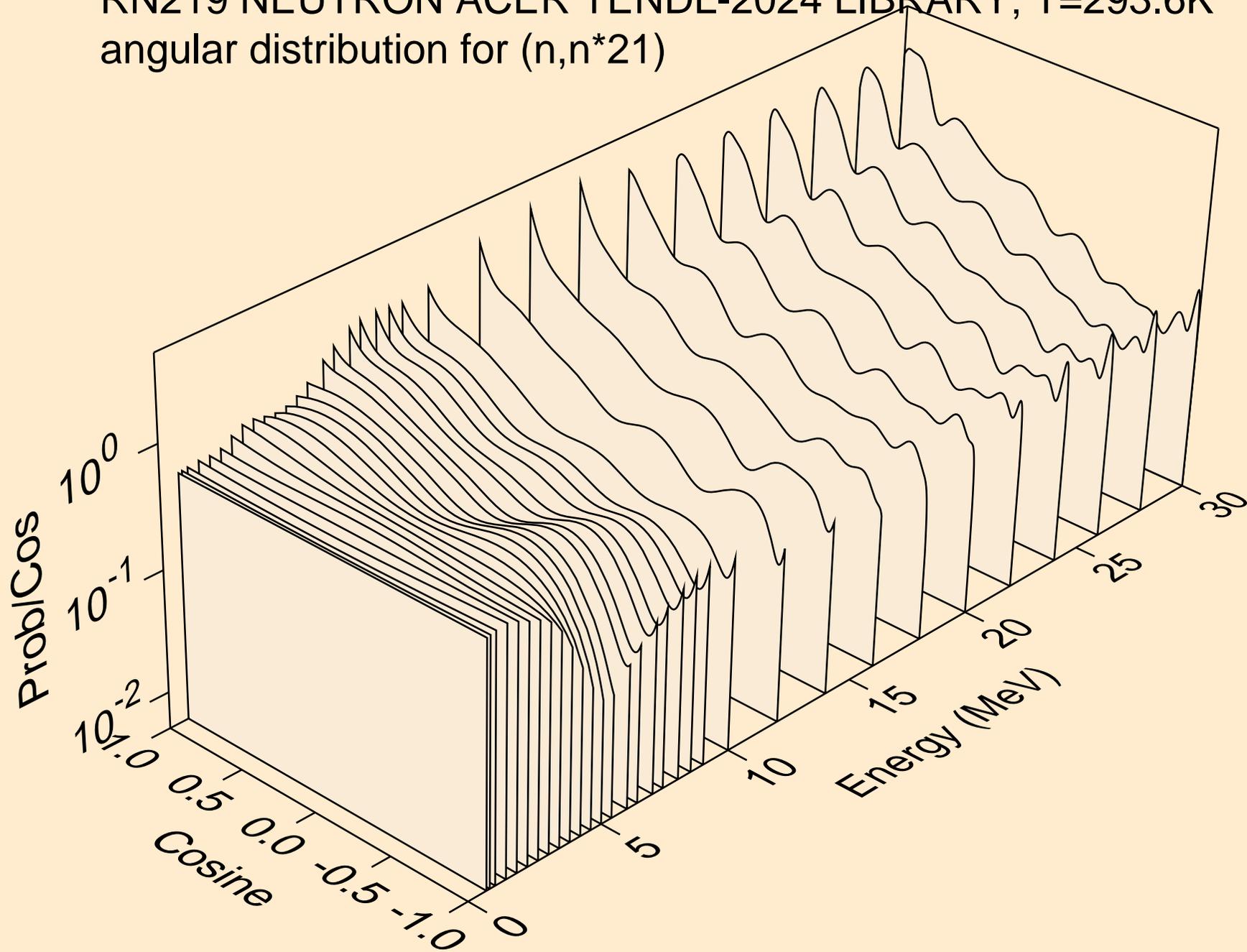
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angular distribution for (n,n\*19)



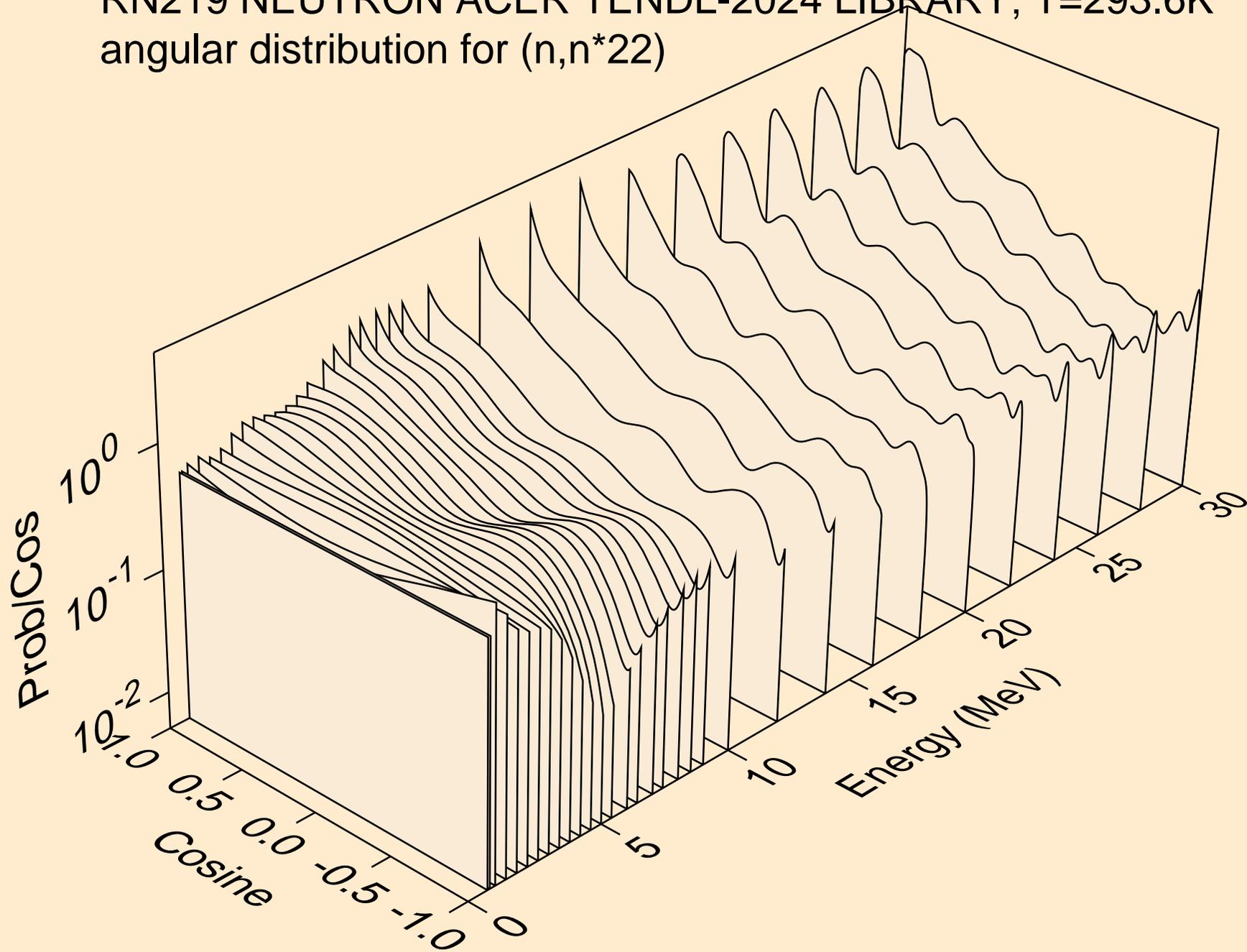
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angular distribution for (n,n\*20)



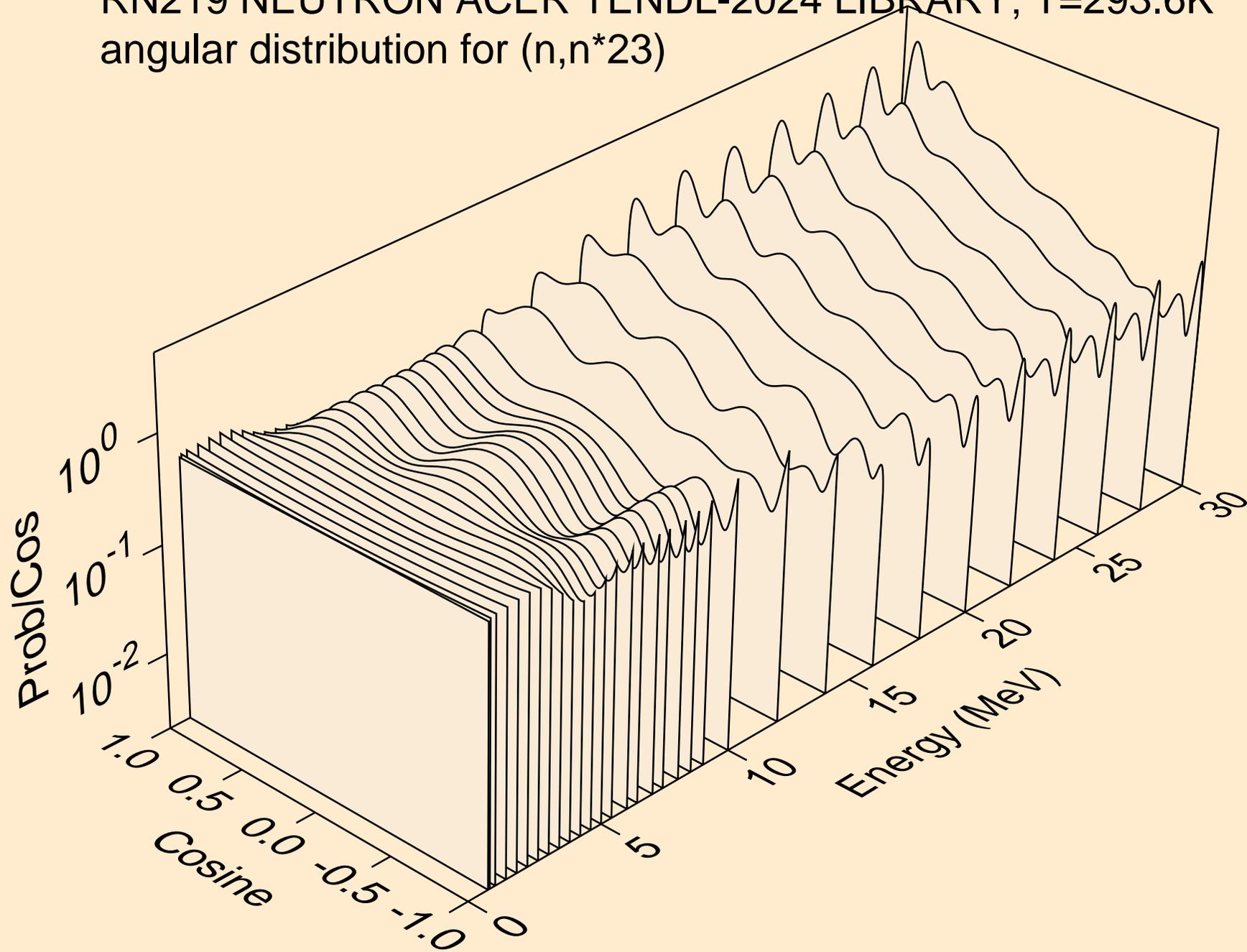
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angular distribution for (n,n\*21)



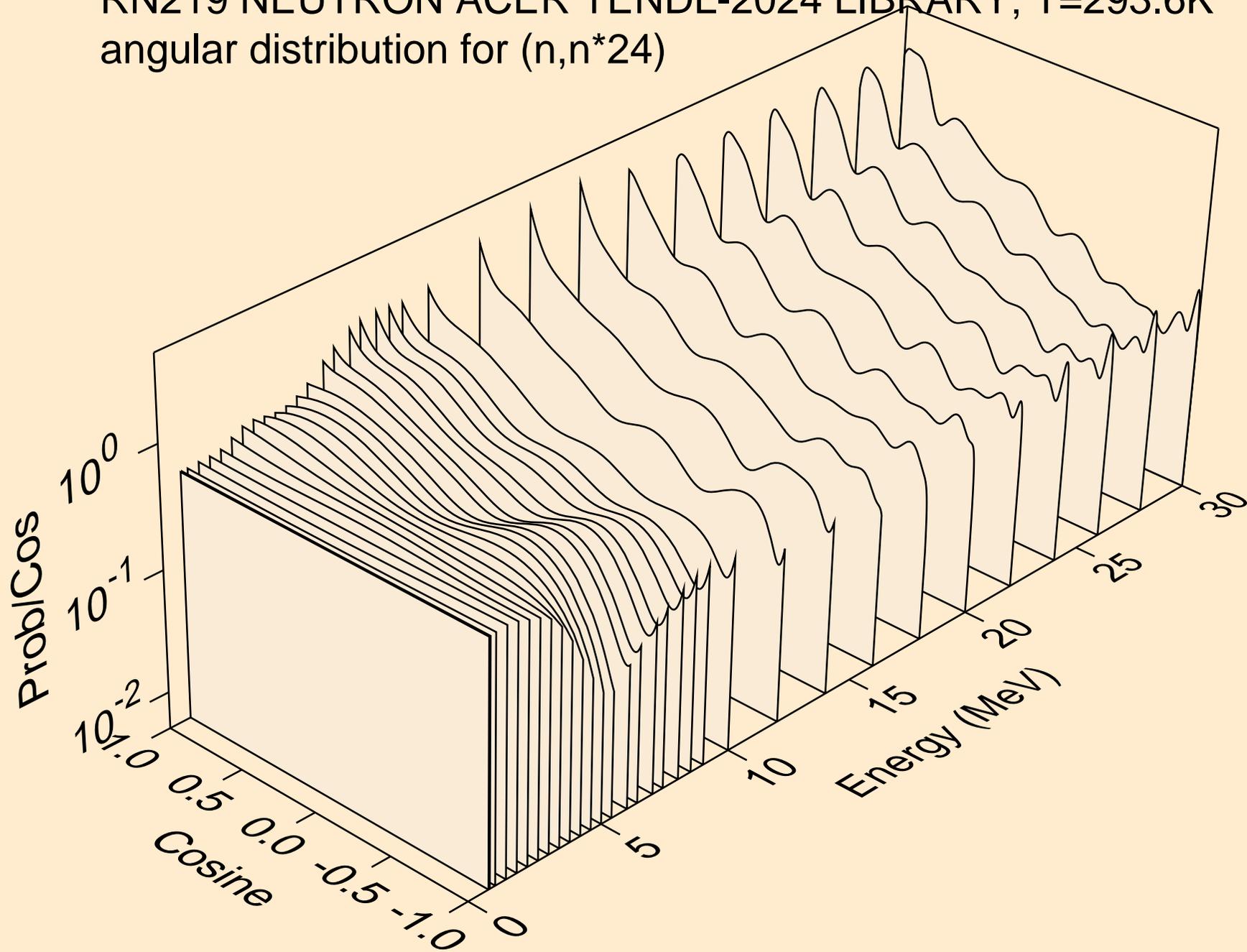
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angular distribution for (n,n\*22)



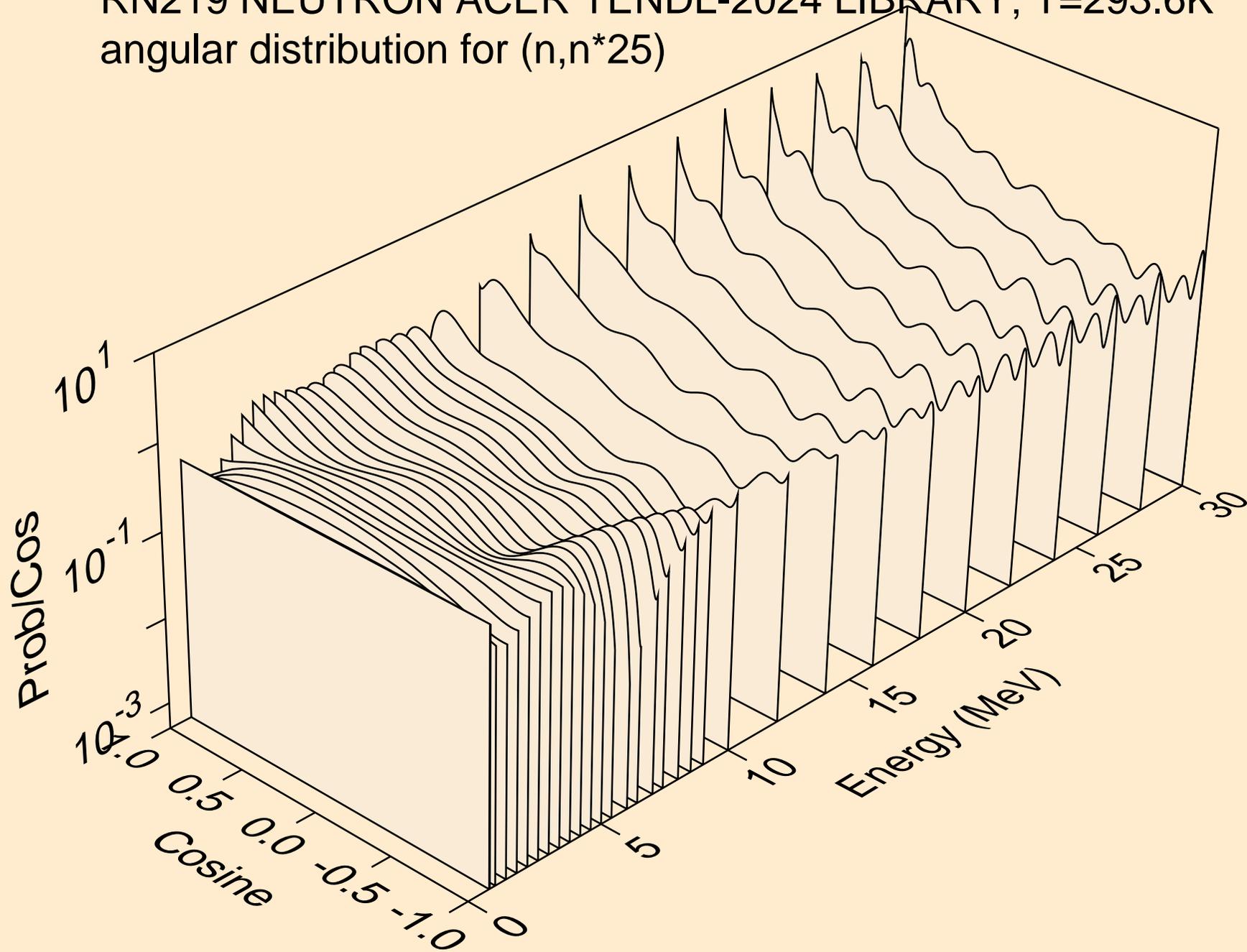
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angular distribution for (n,n\*23)



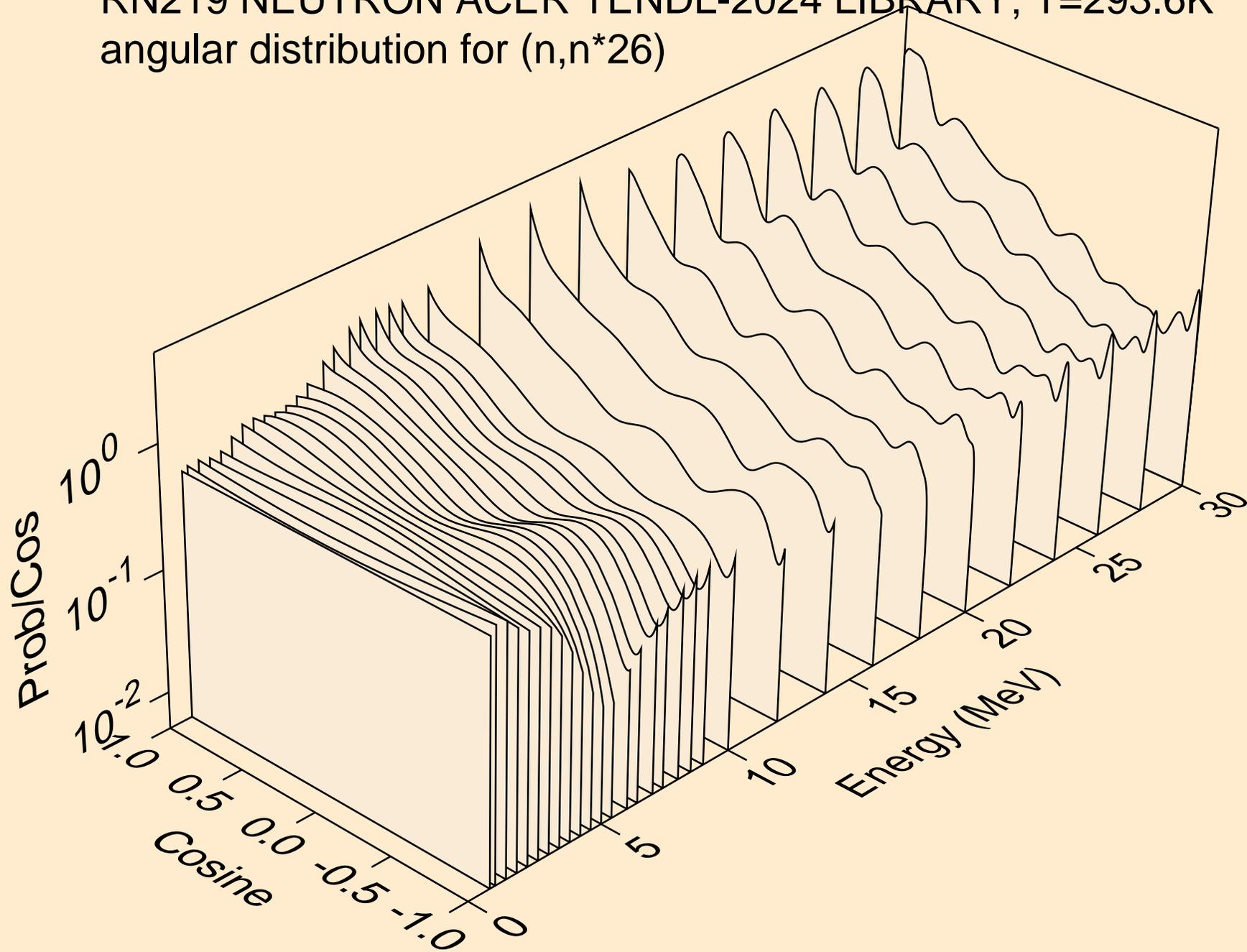
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angular distribution for (n,n\*24)



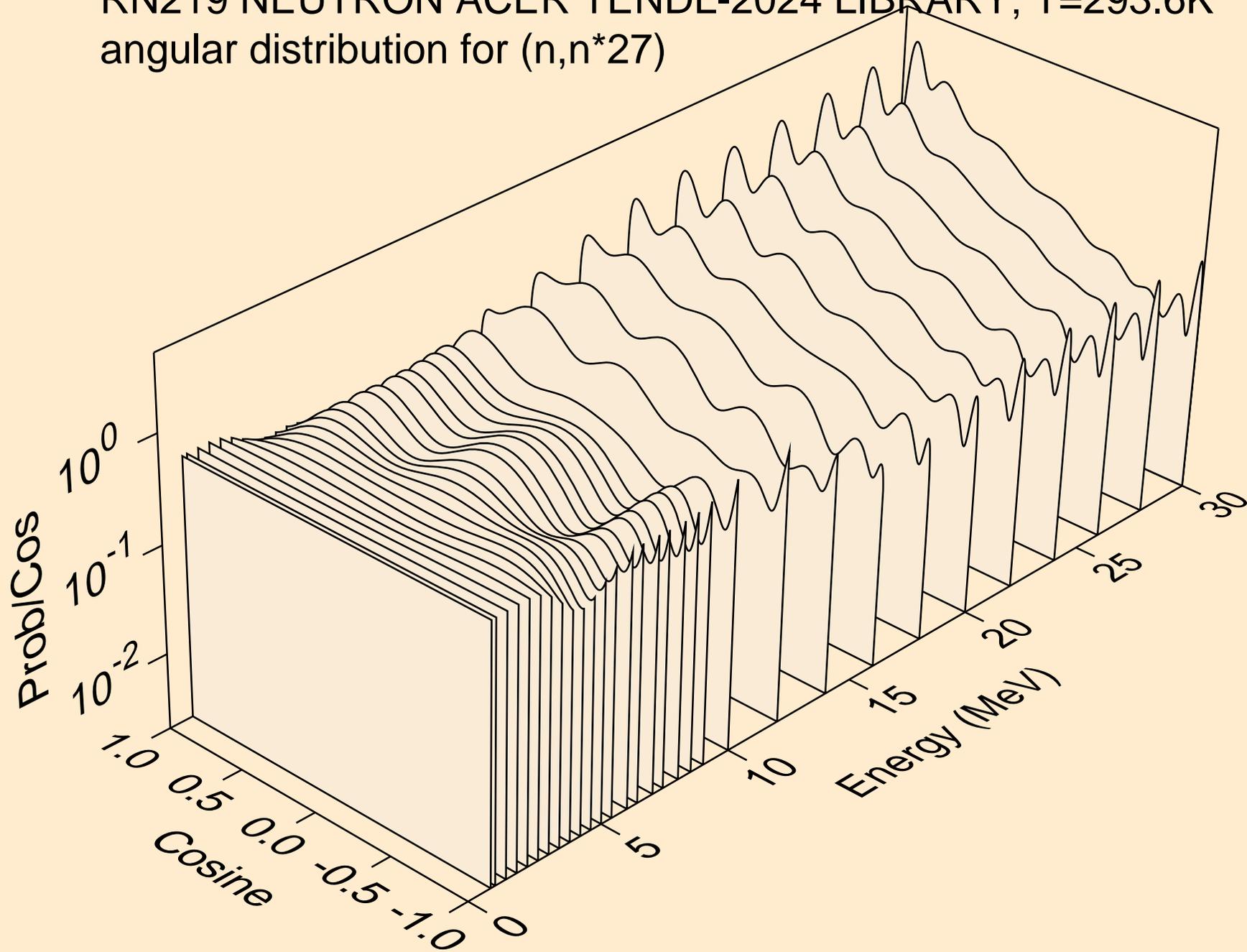
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angular distribution for (n,n\*25)



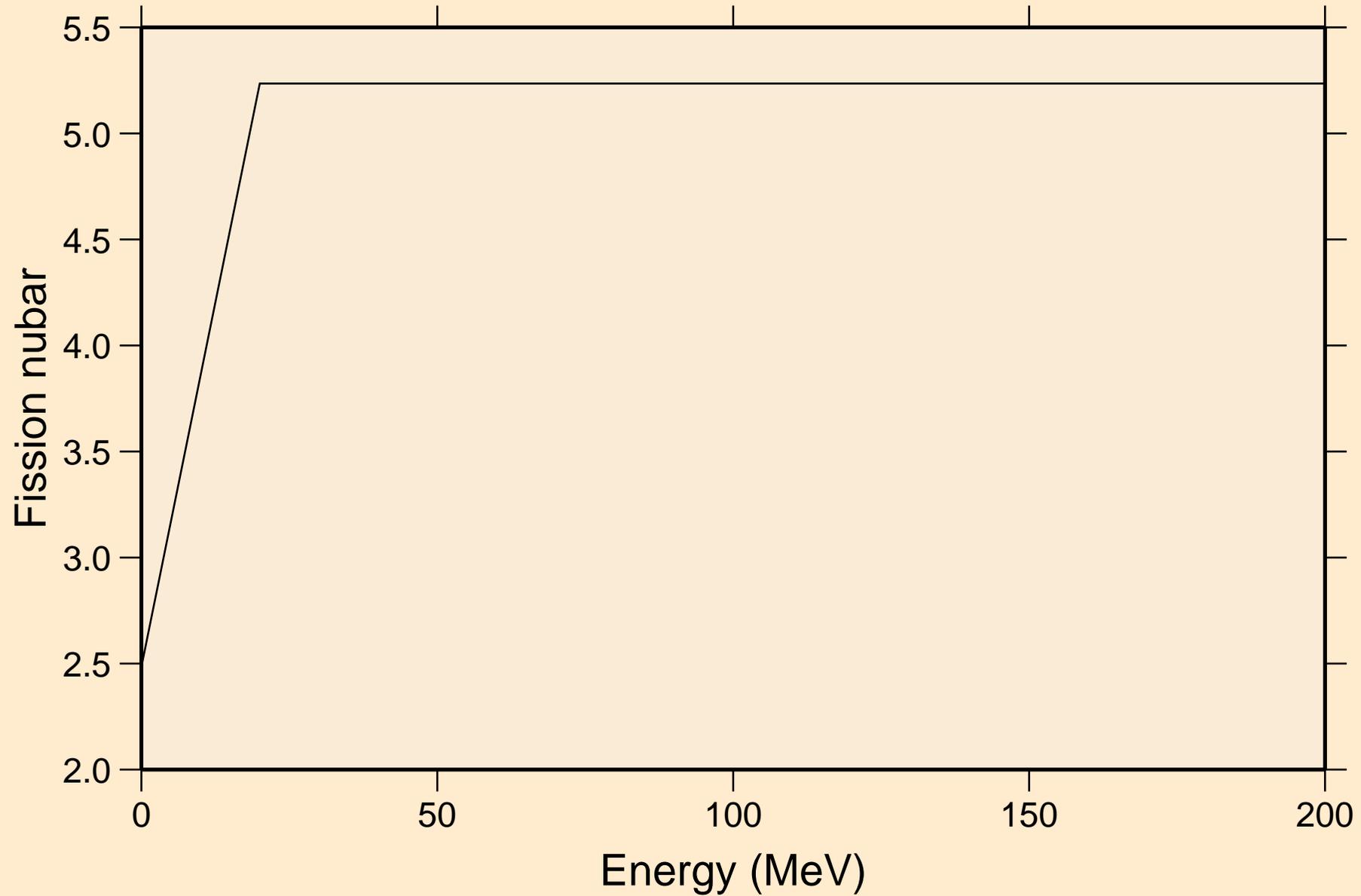
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angular distribution for (n,n\*26)



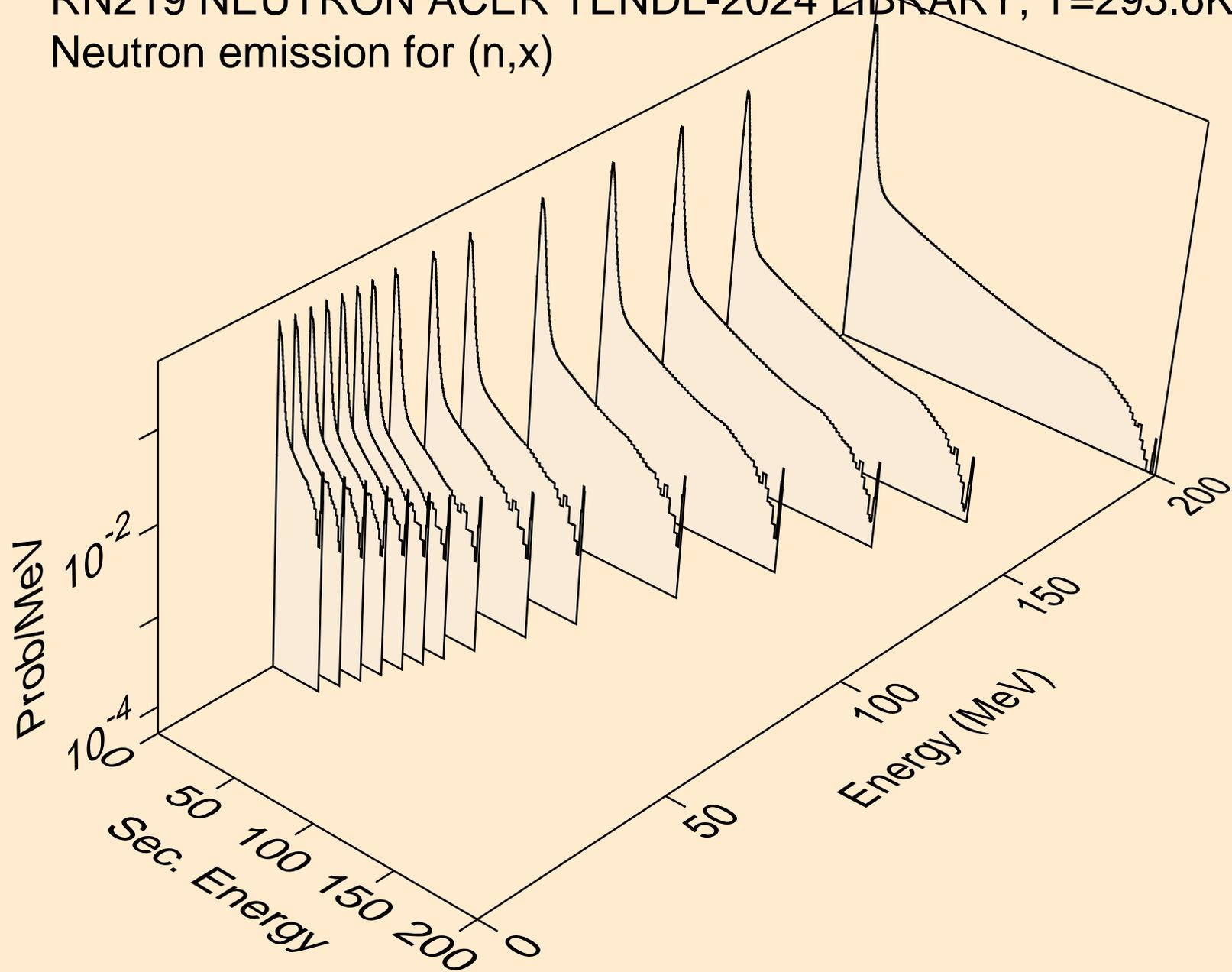
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angular distribution for (n,n\*27)



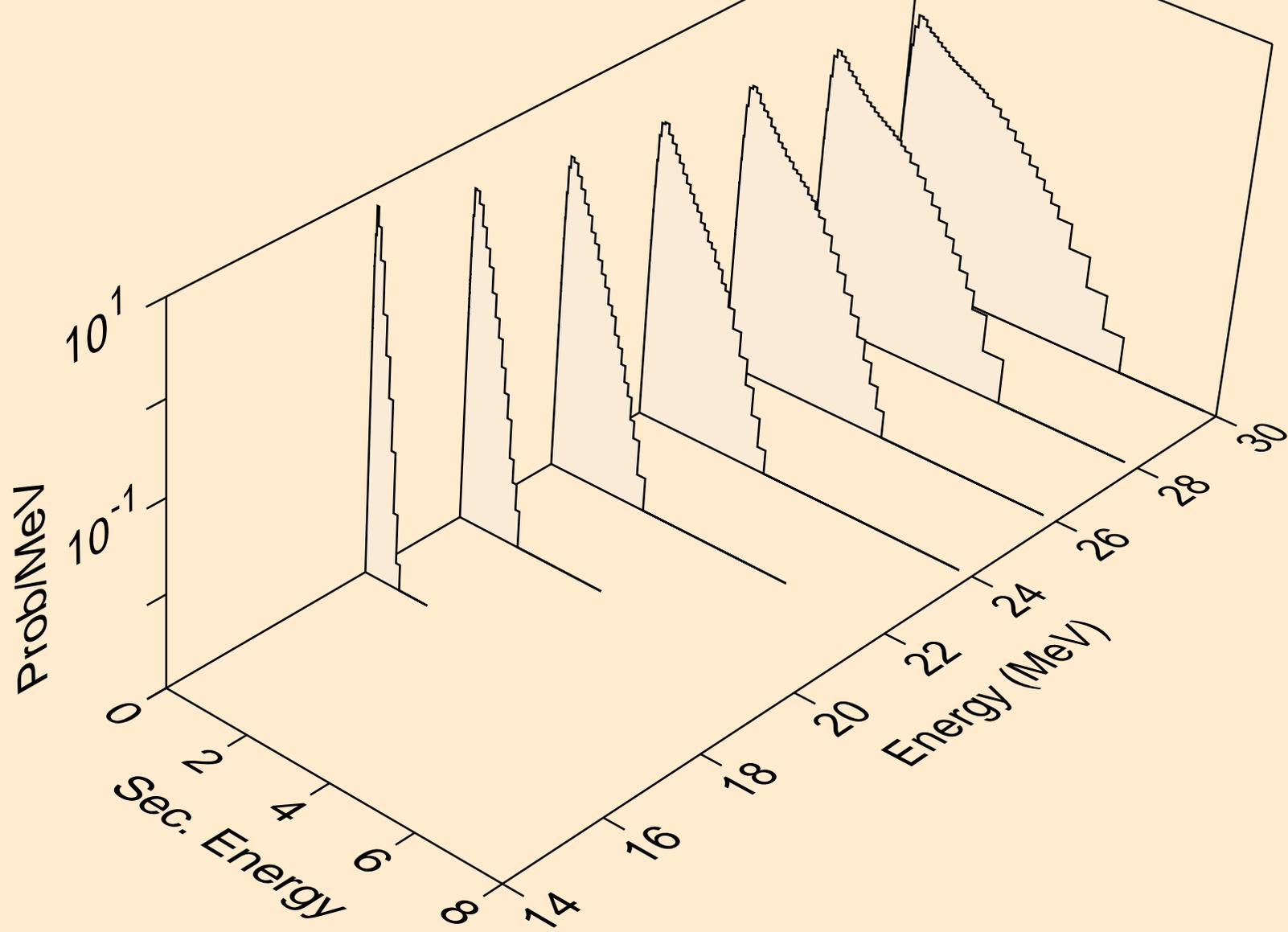
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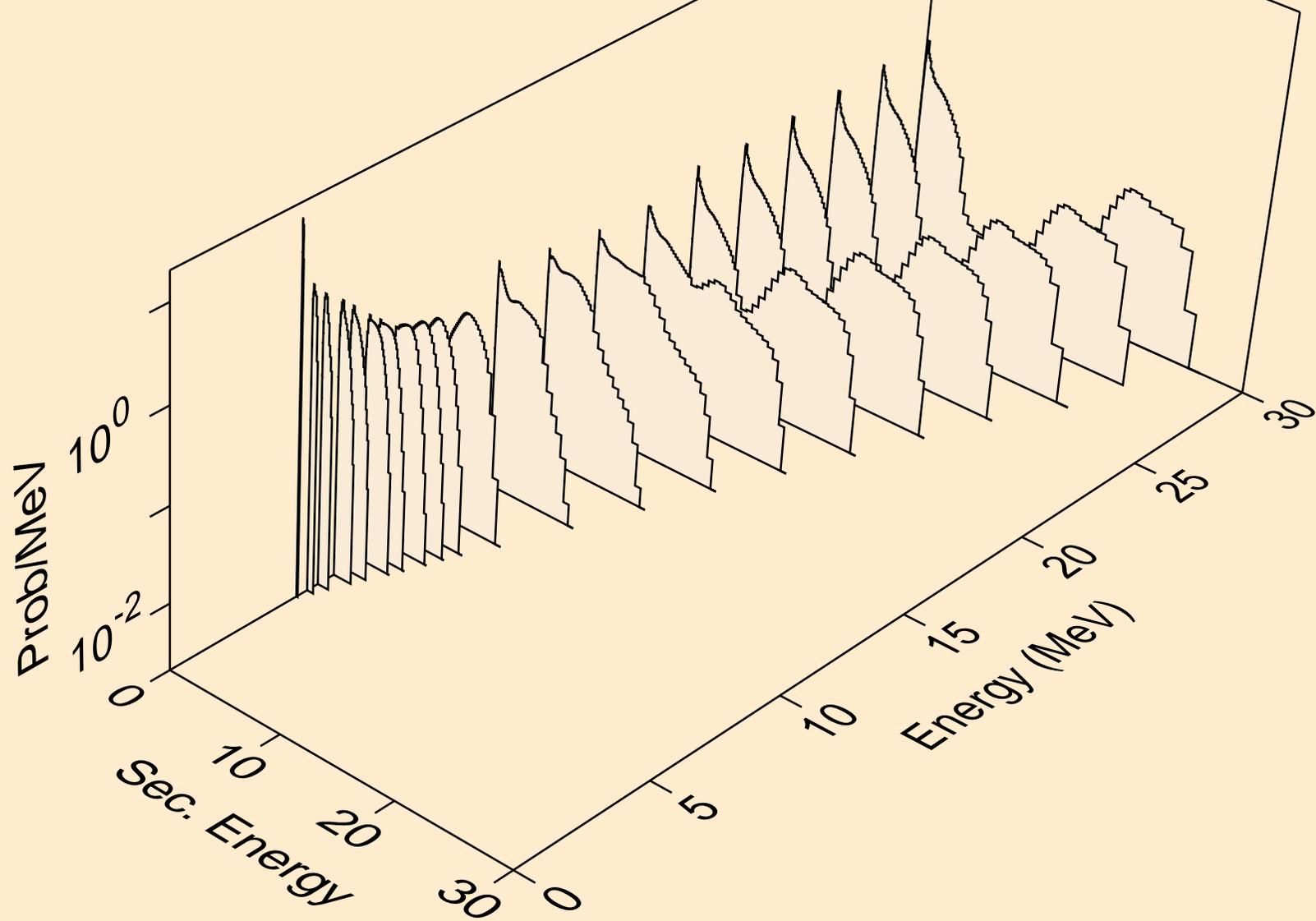
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Neutron emission for (n,x)



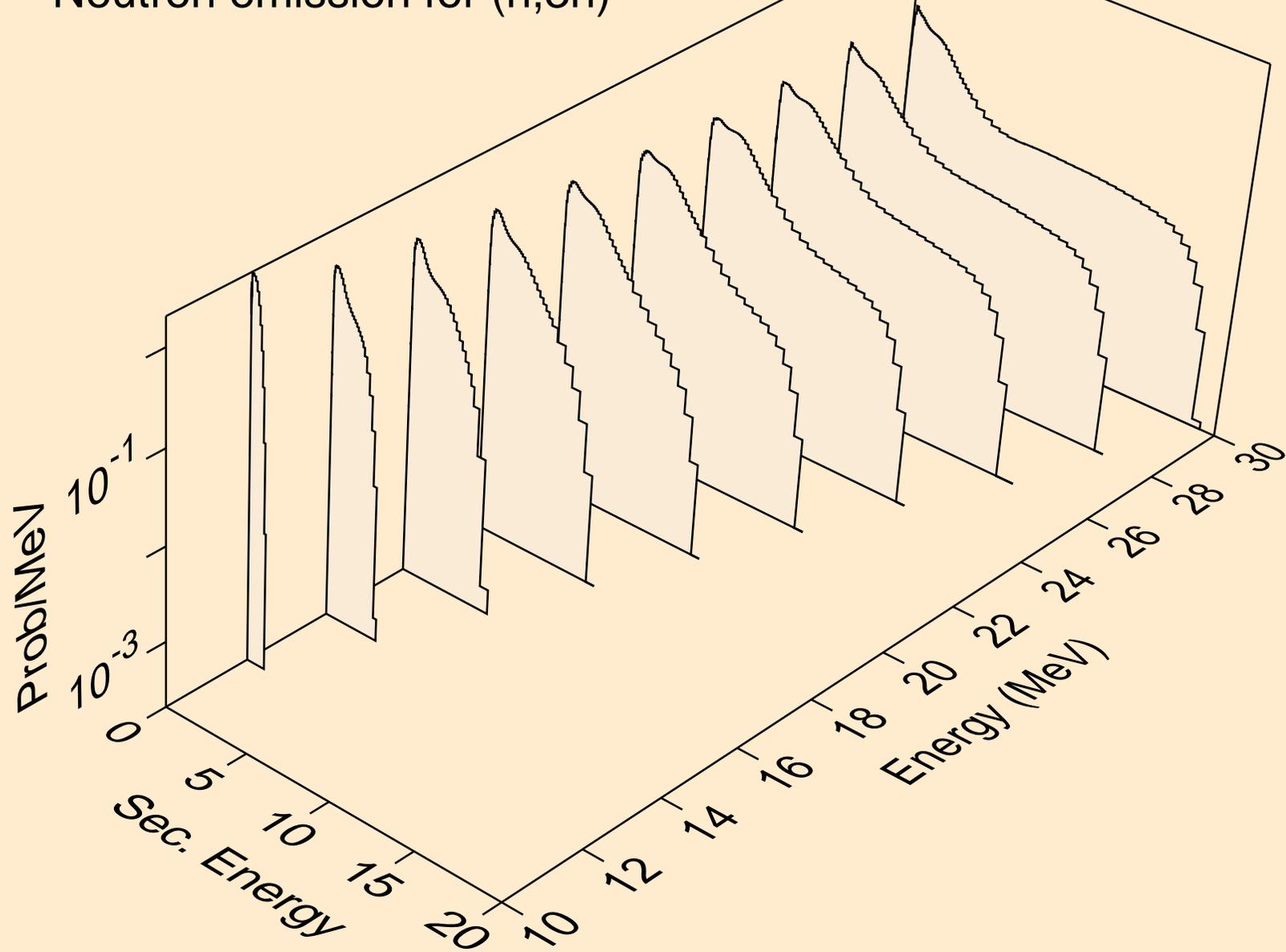
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Neutron emission for (n,2nd)



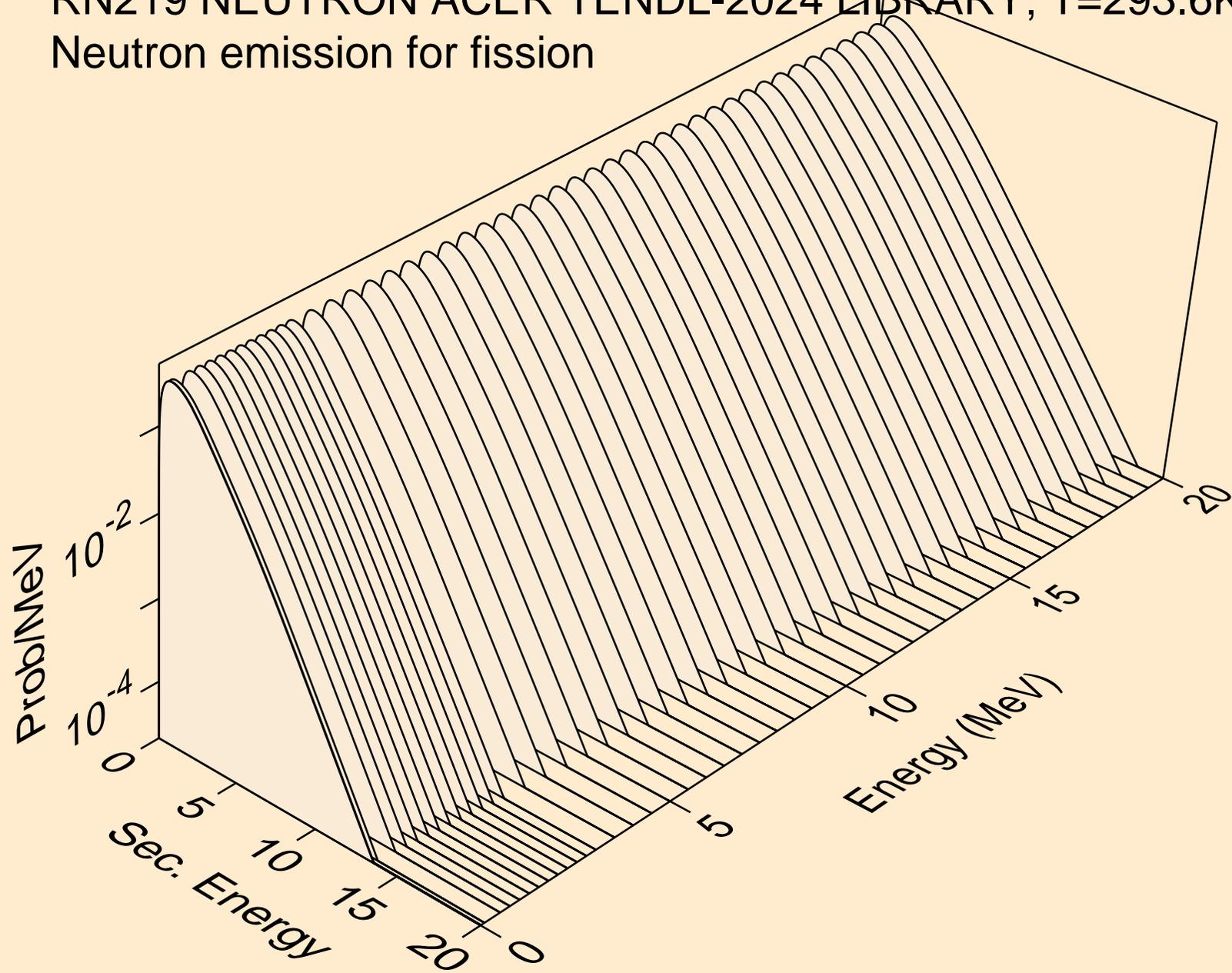
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Neutron emission for (n,2n)



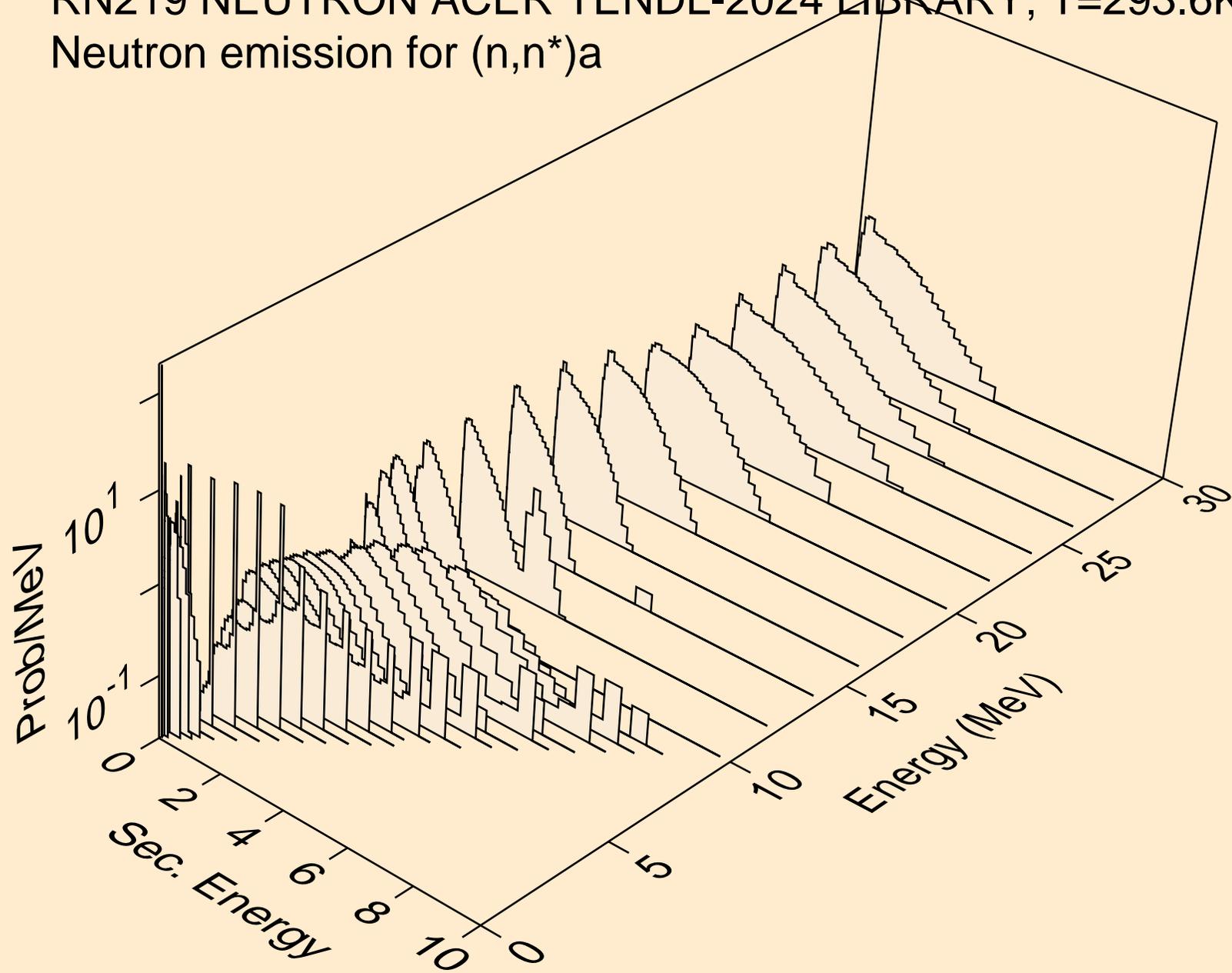
RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



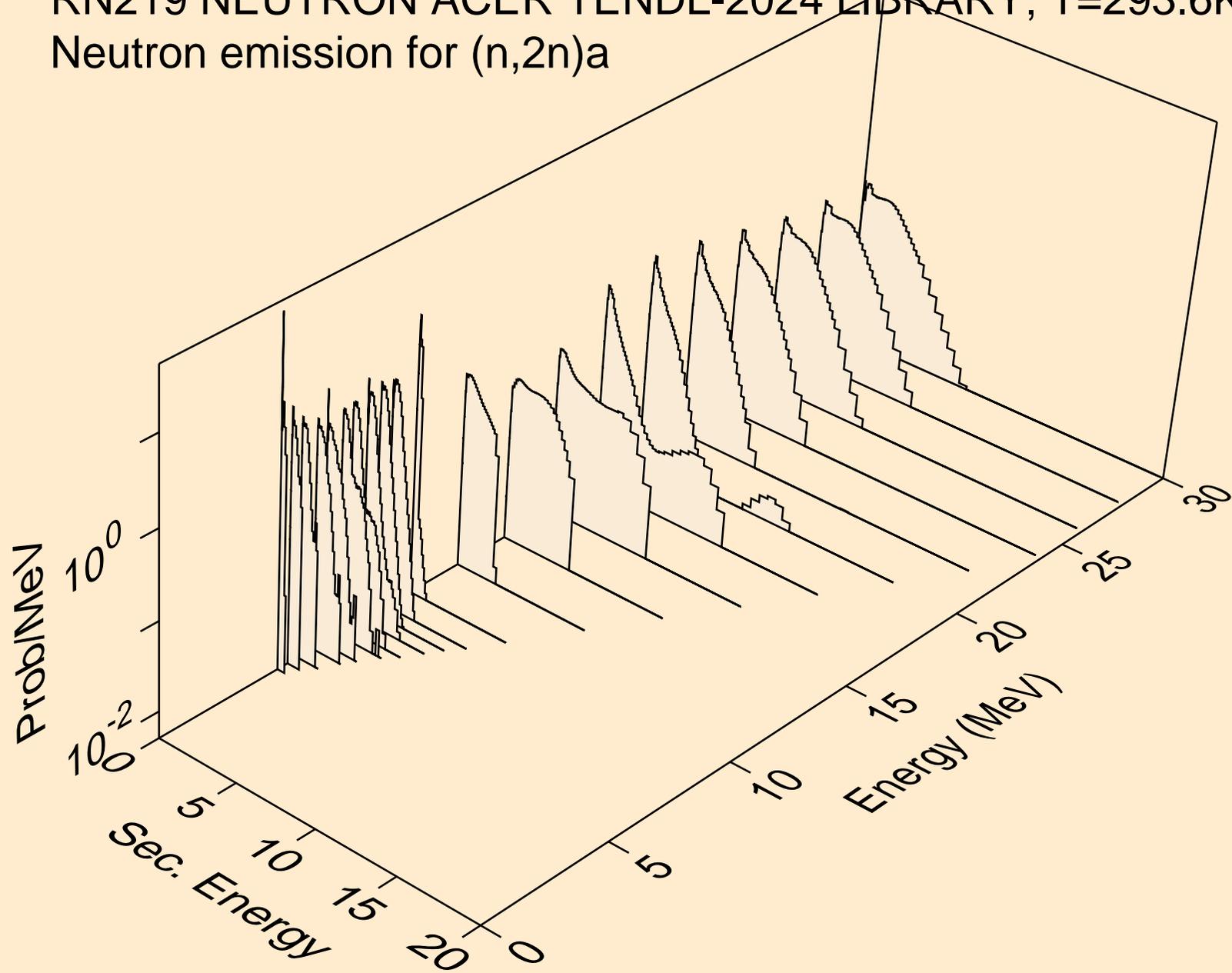
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Neutron emission for fission



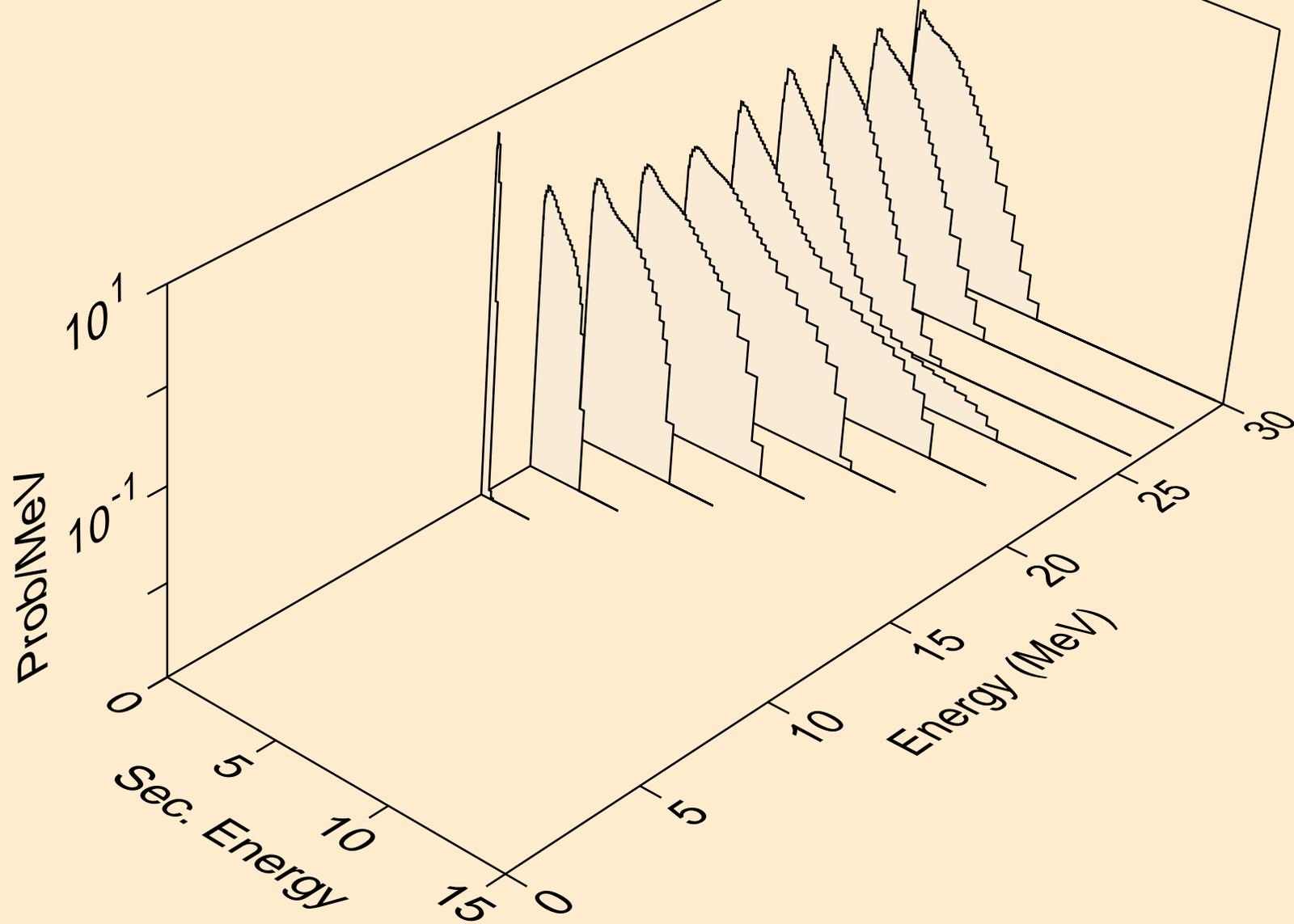
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Neutron emission for (n,n\*)a



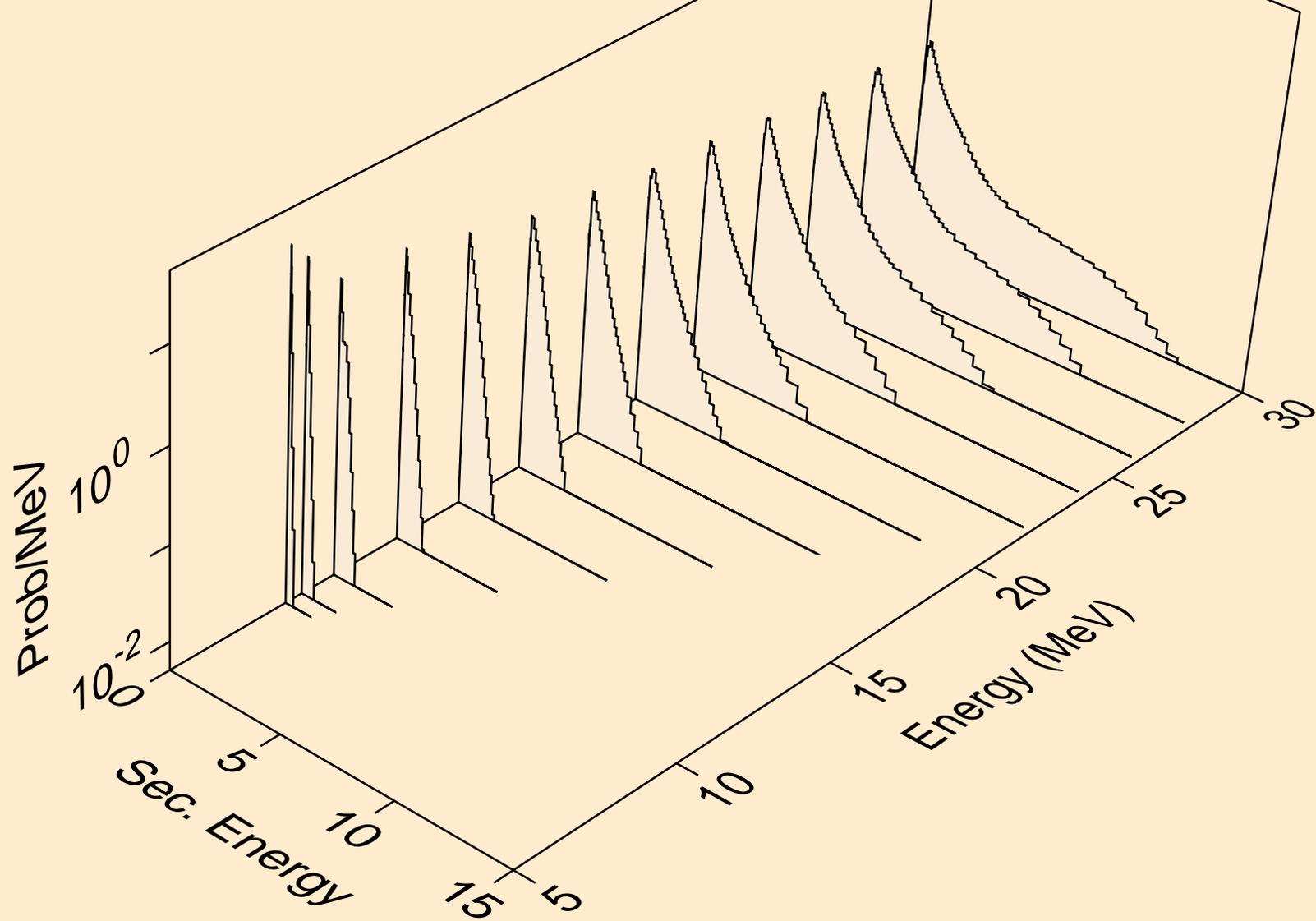
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Neutron emission for (n,2n)a



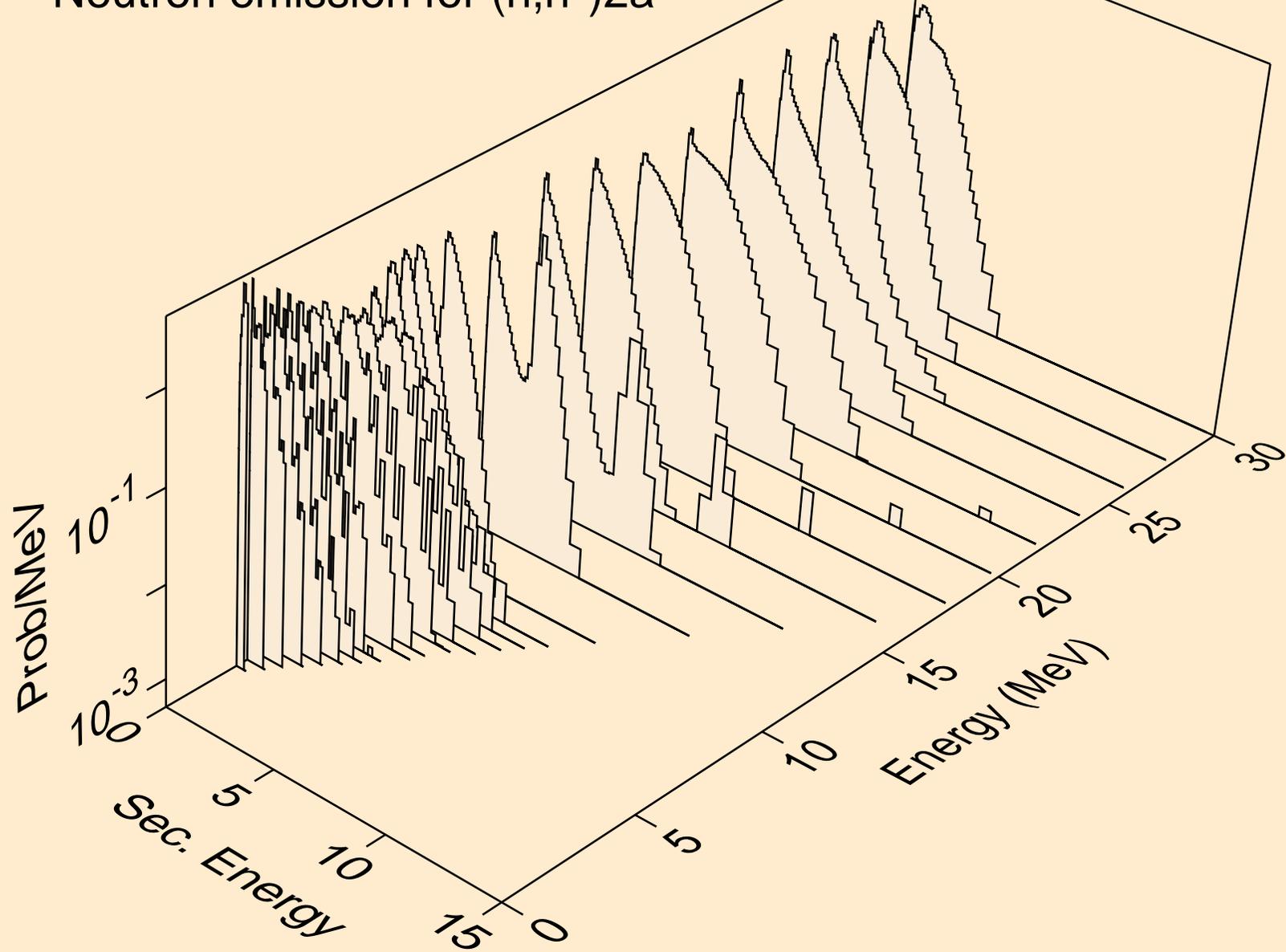
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Neutron emission for (n,3n)a



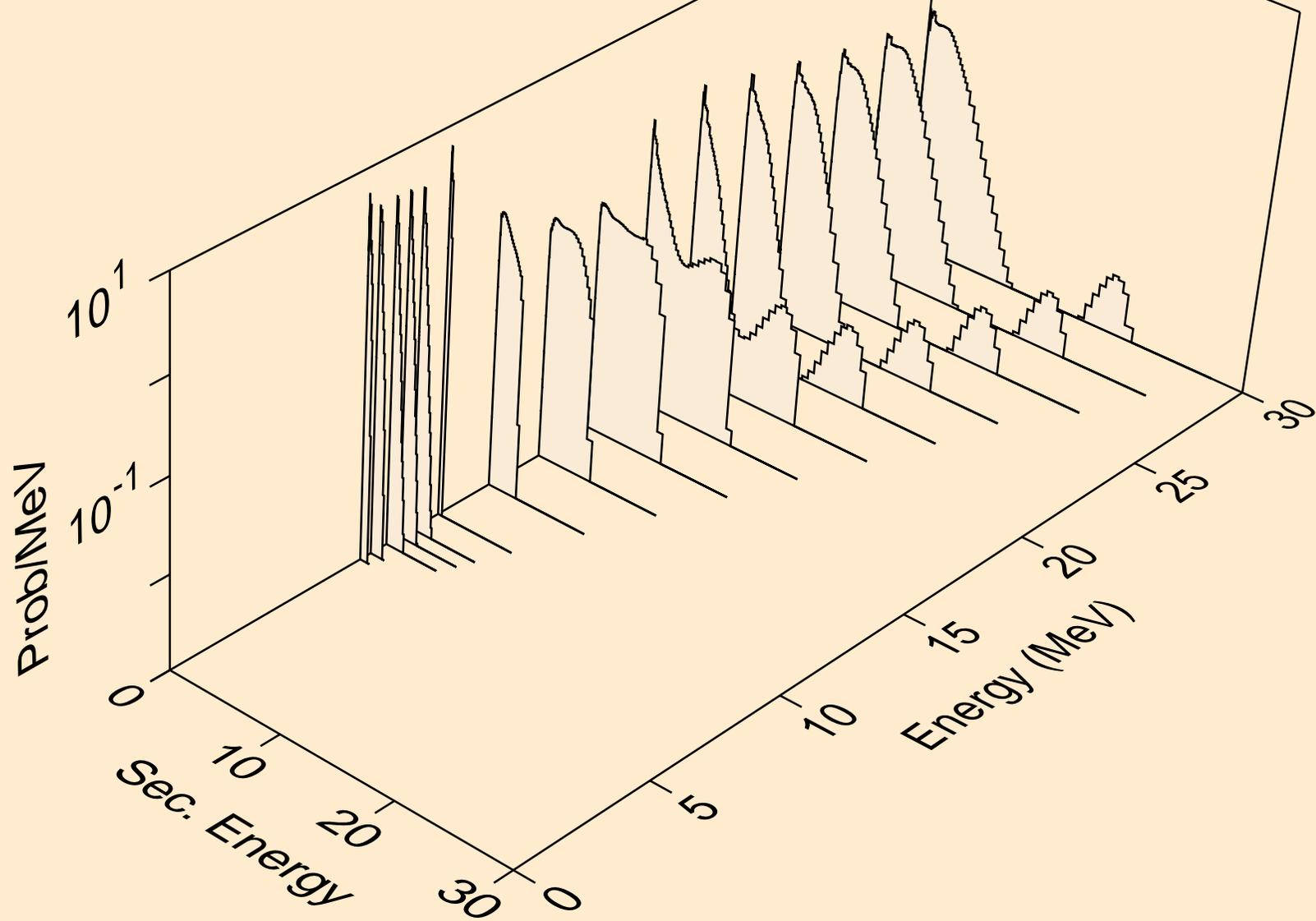
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Neutron emission for (n,n\*)p



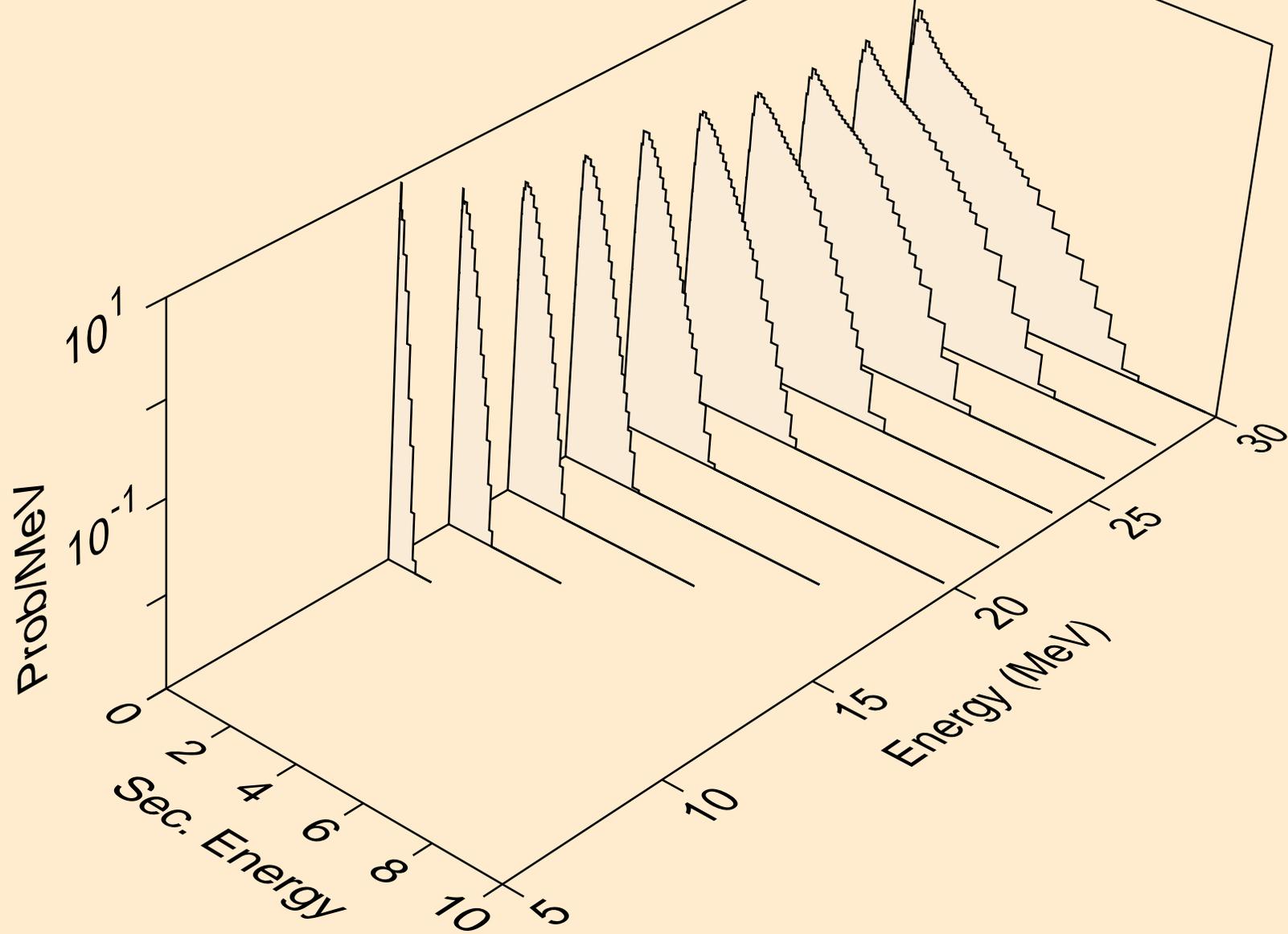
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Neutron emission for (n,n\*)2a



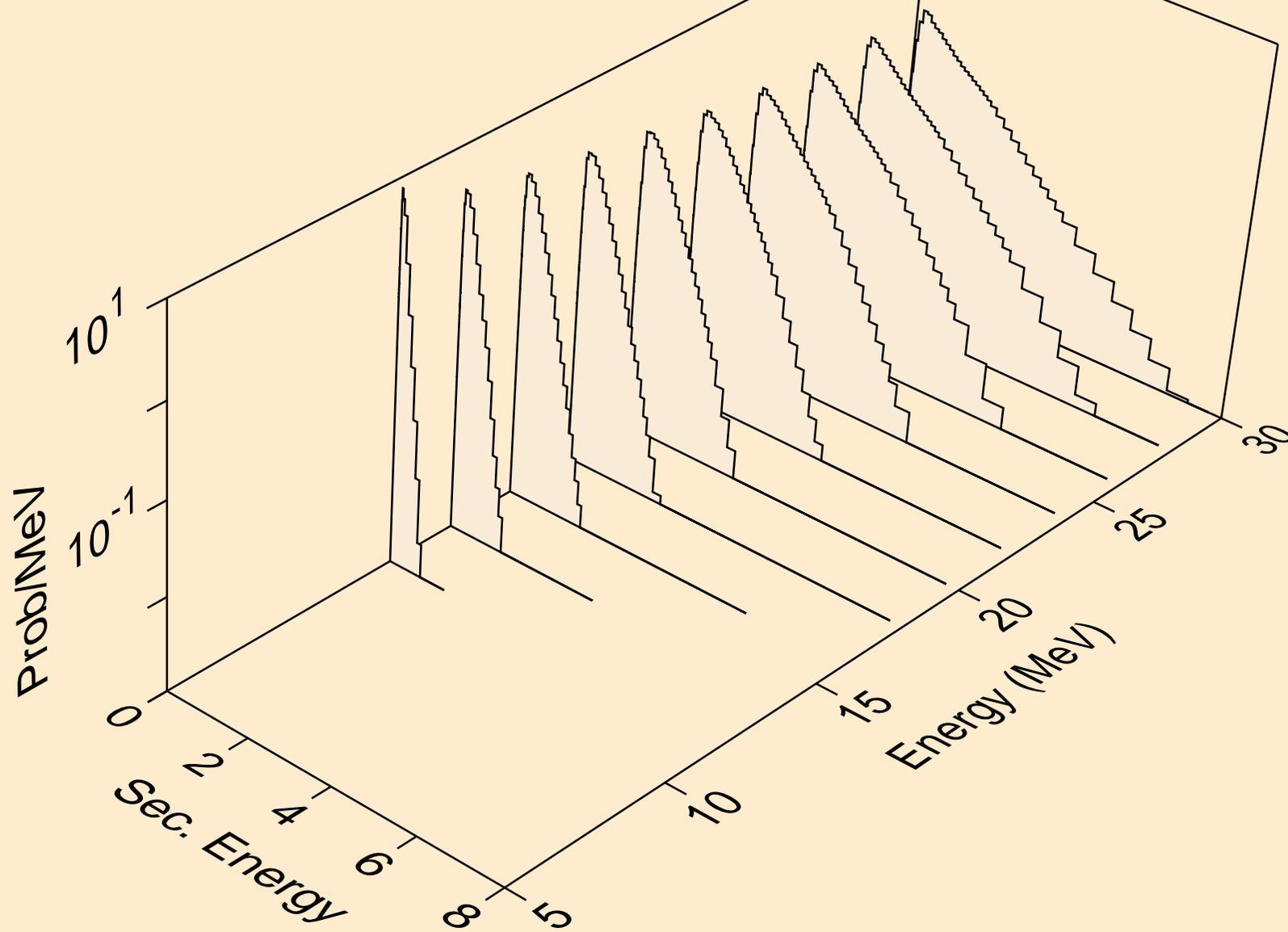
RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,2n)2a



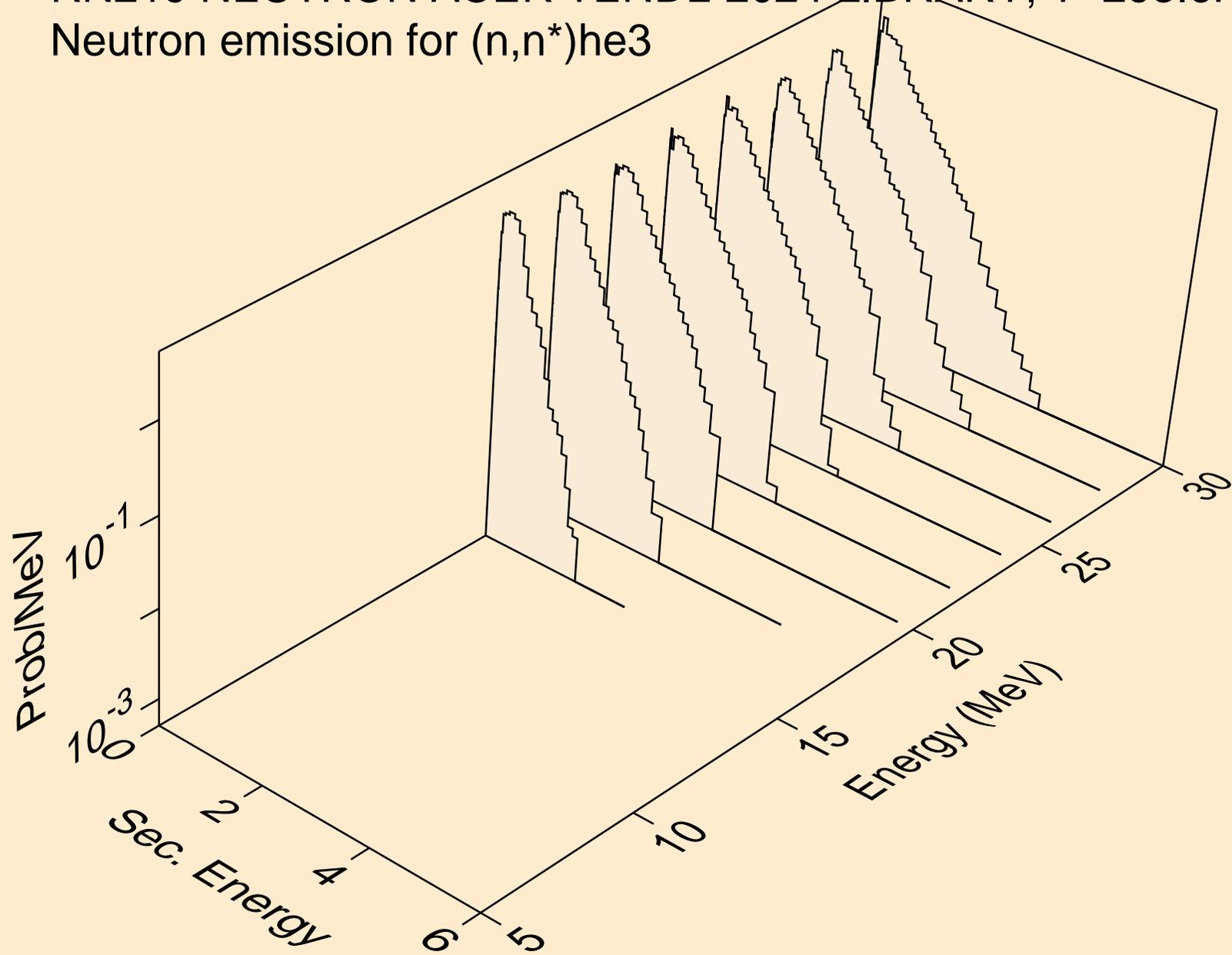
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Neutron emission for (n,n\*)d



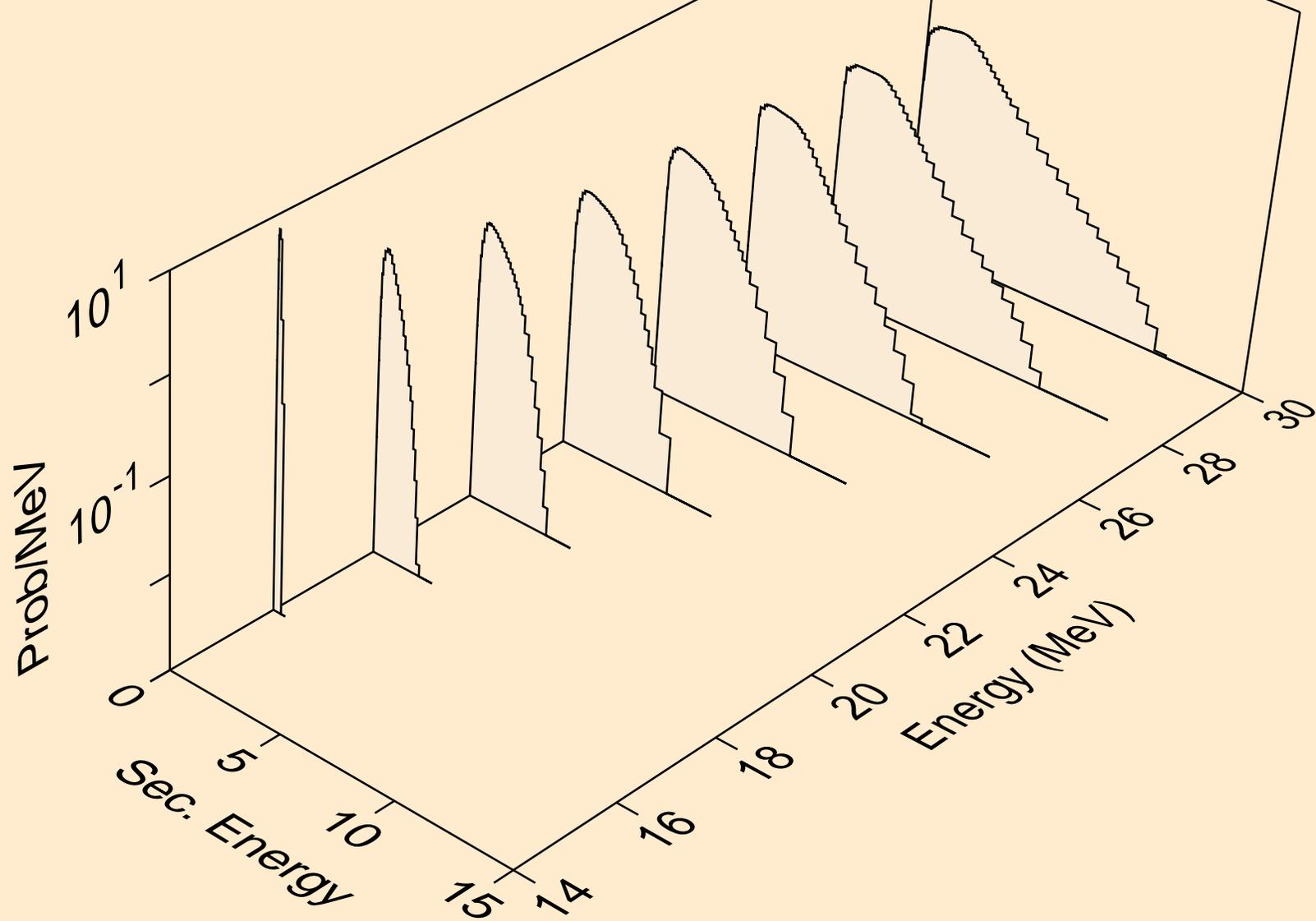
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Neutron emission for (n,n\*)t



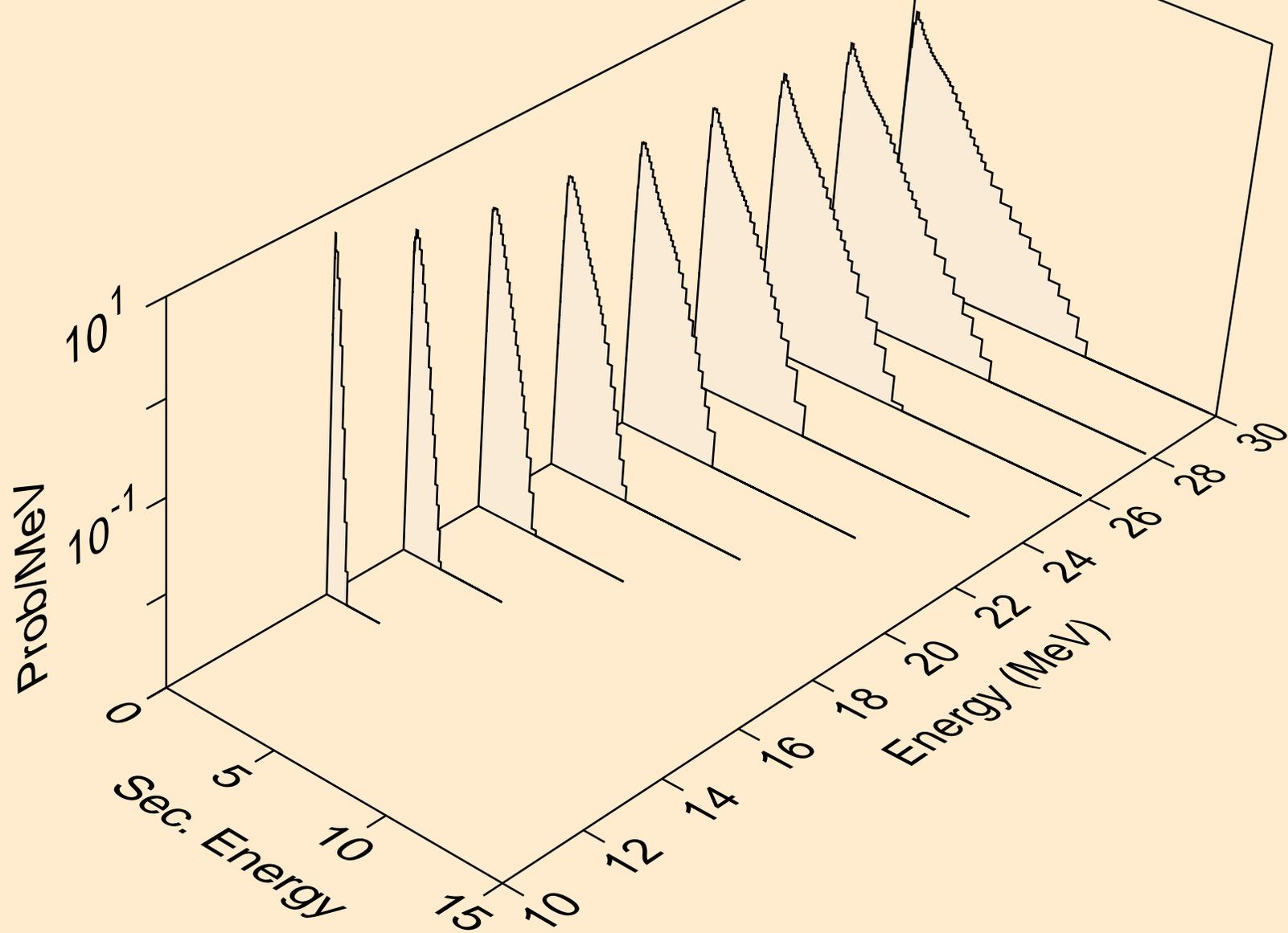
RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



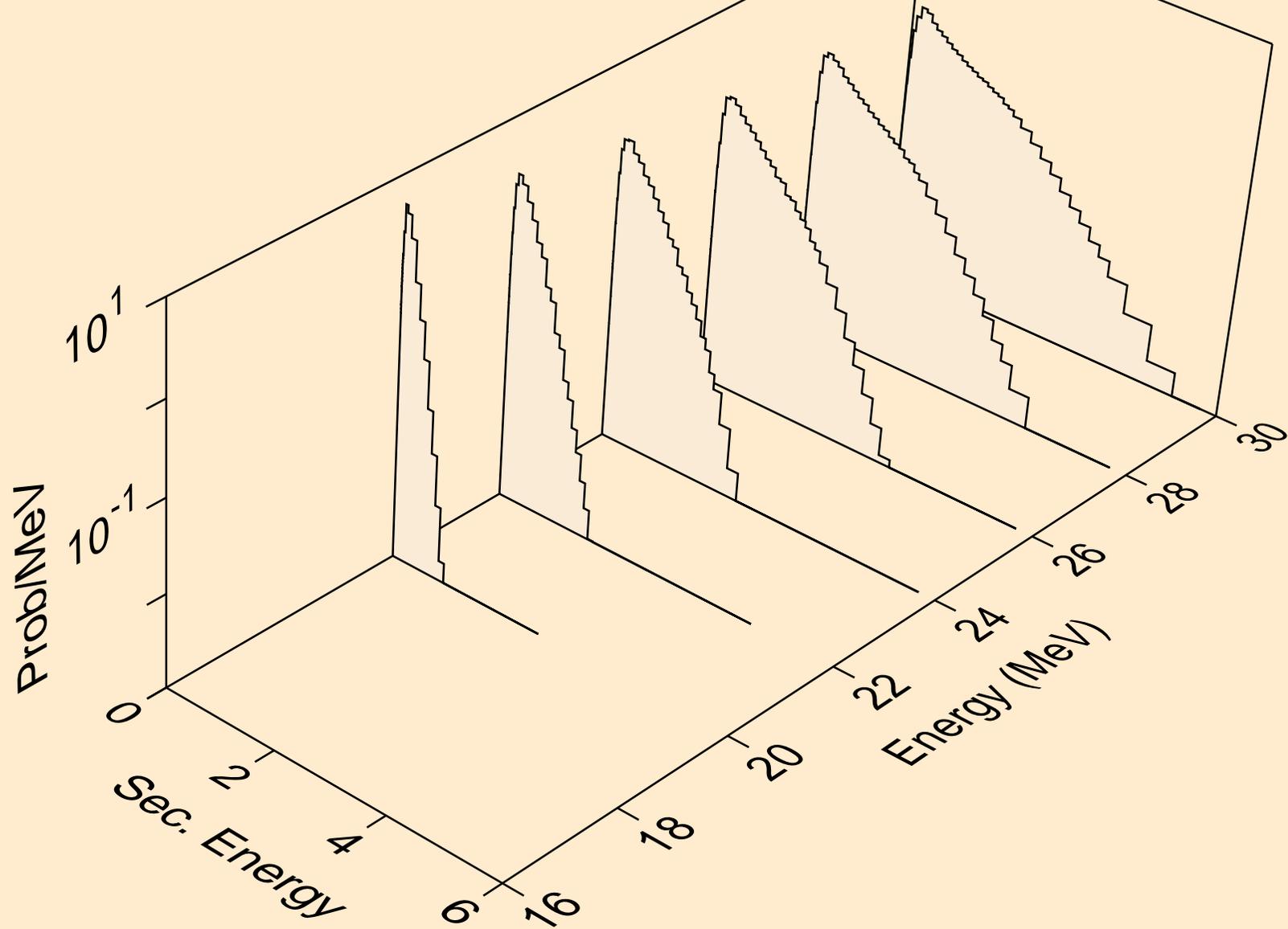
RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



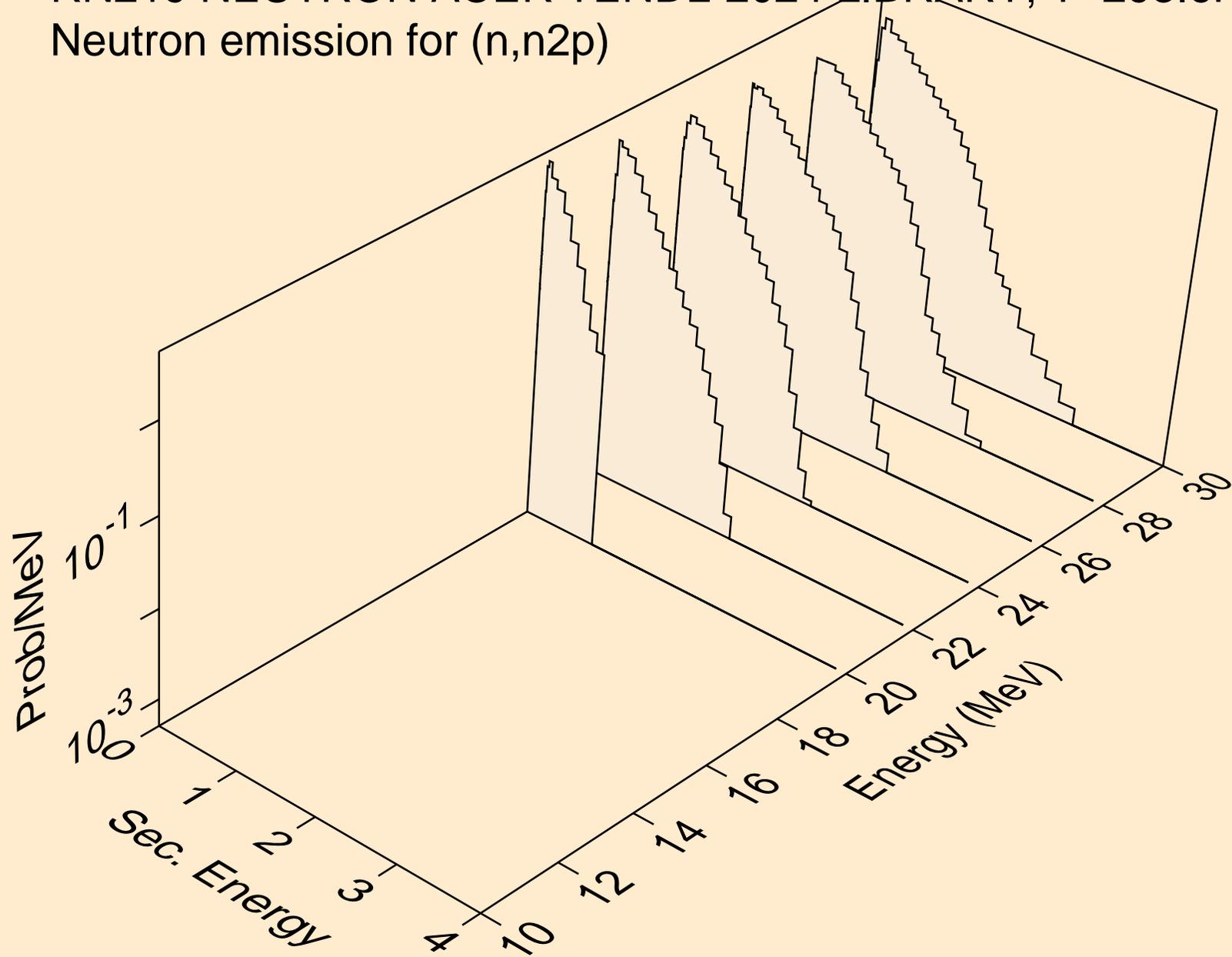
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Neutron emission for (n,2np)



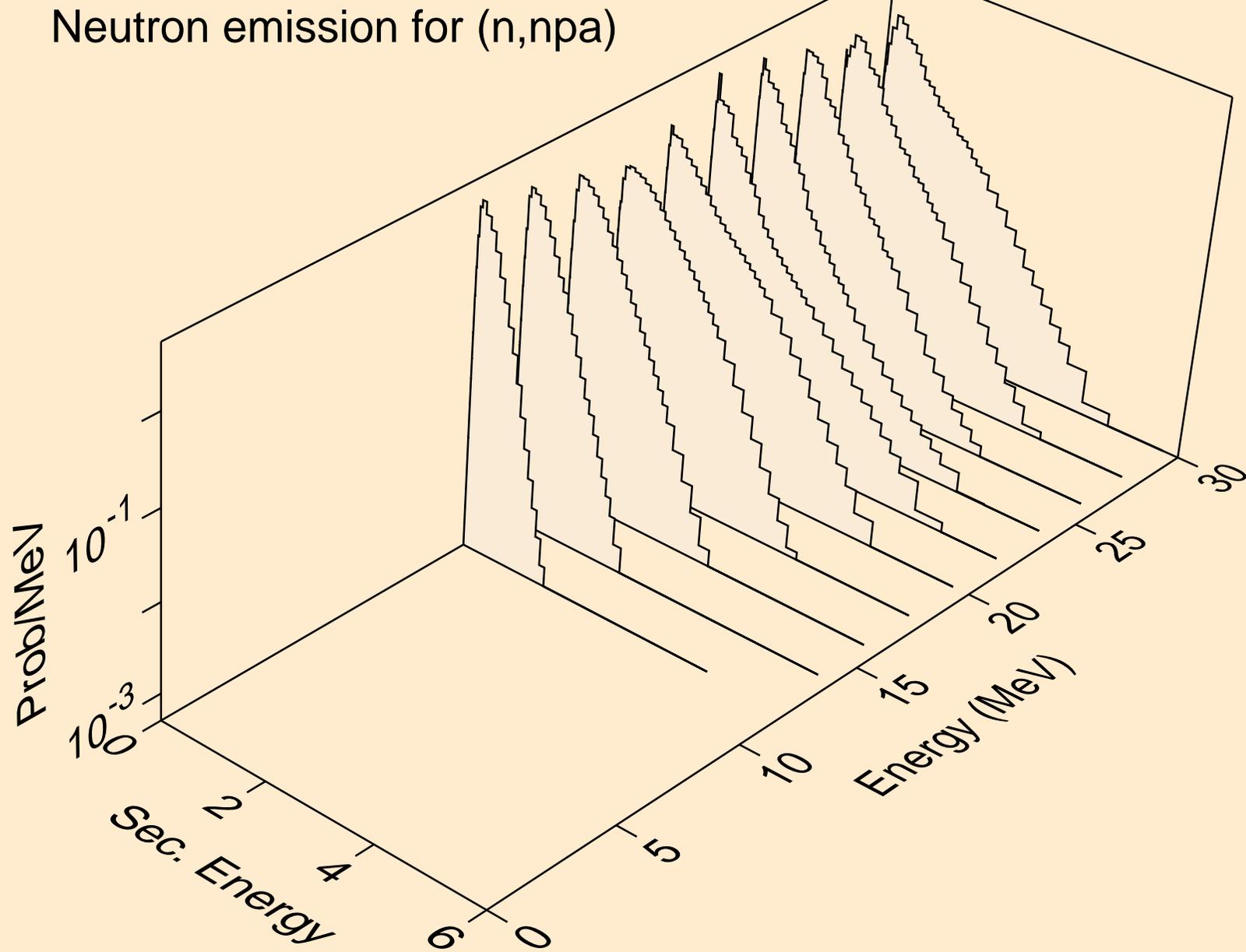
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Neutron emission for (n,3np)



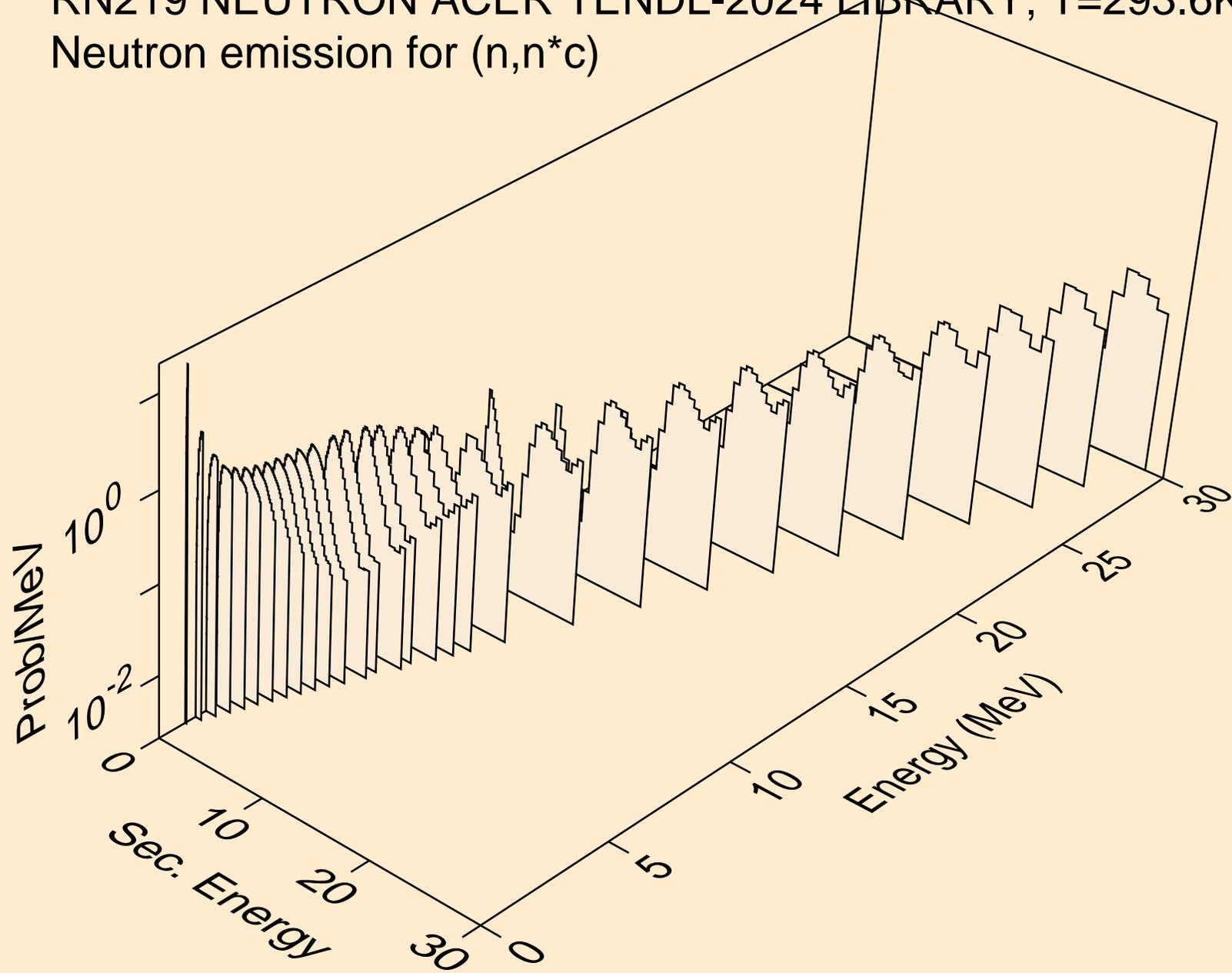
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Neutron emission for (n,n2p)



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Neutron emission for (n,npa)

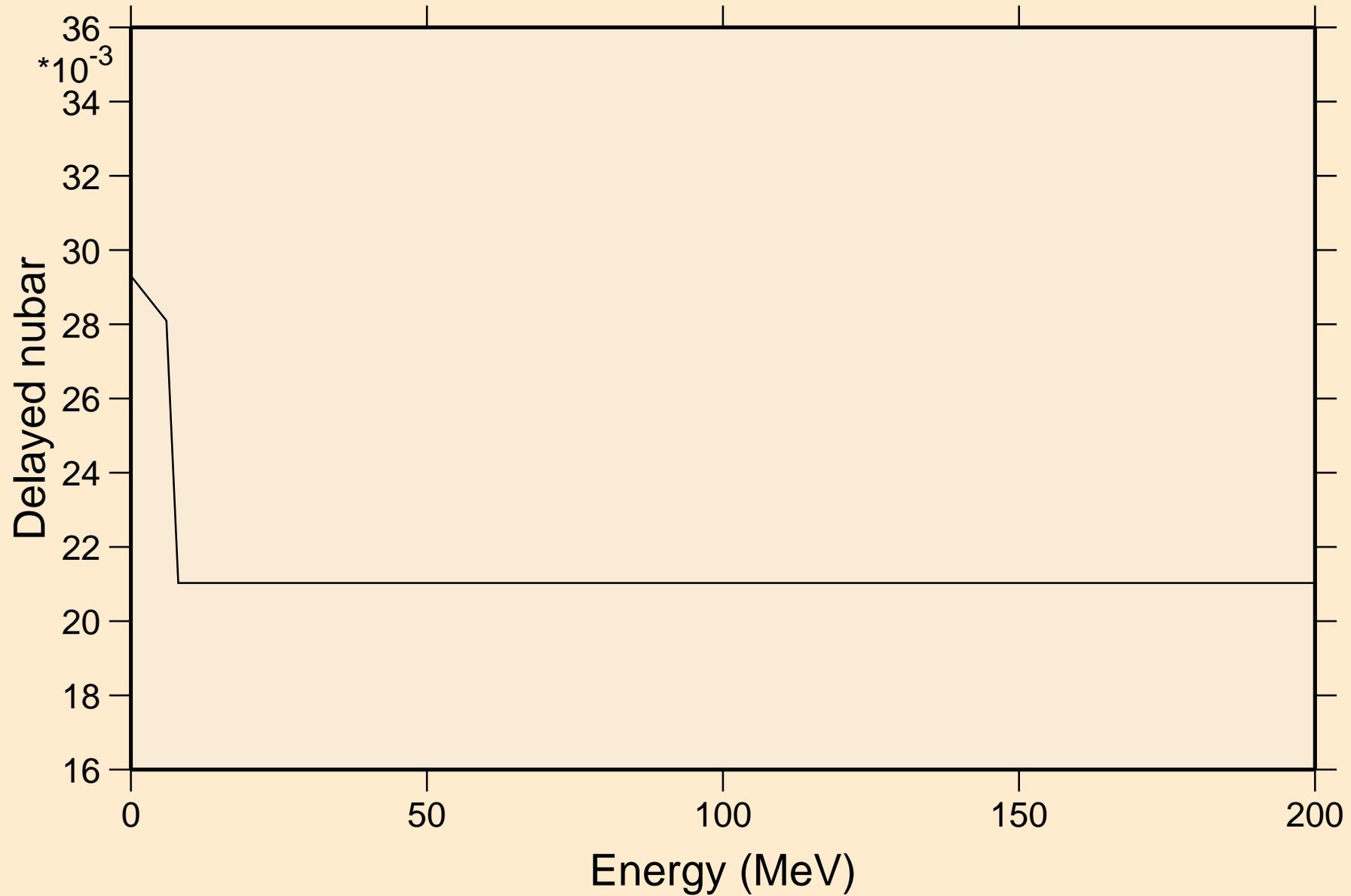


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Neutron emission for (n,n\*c)



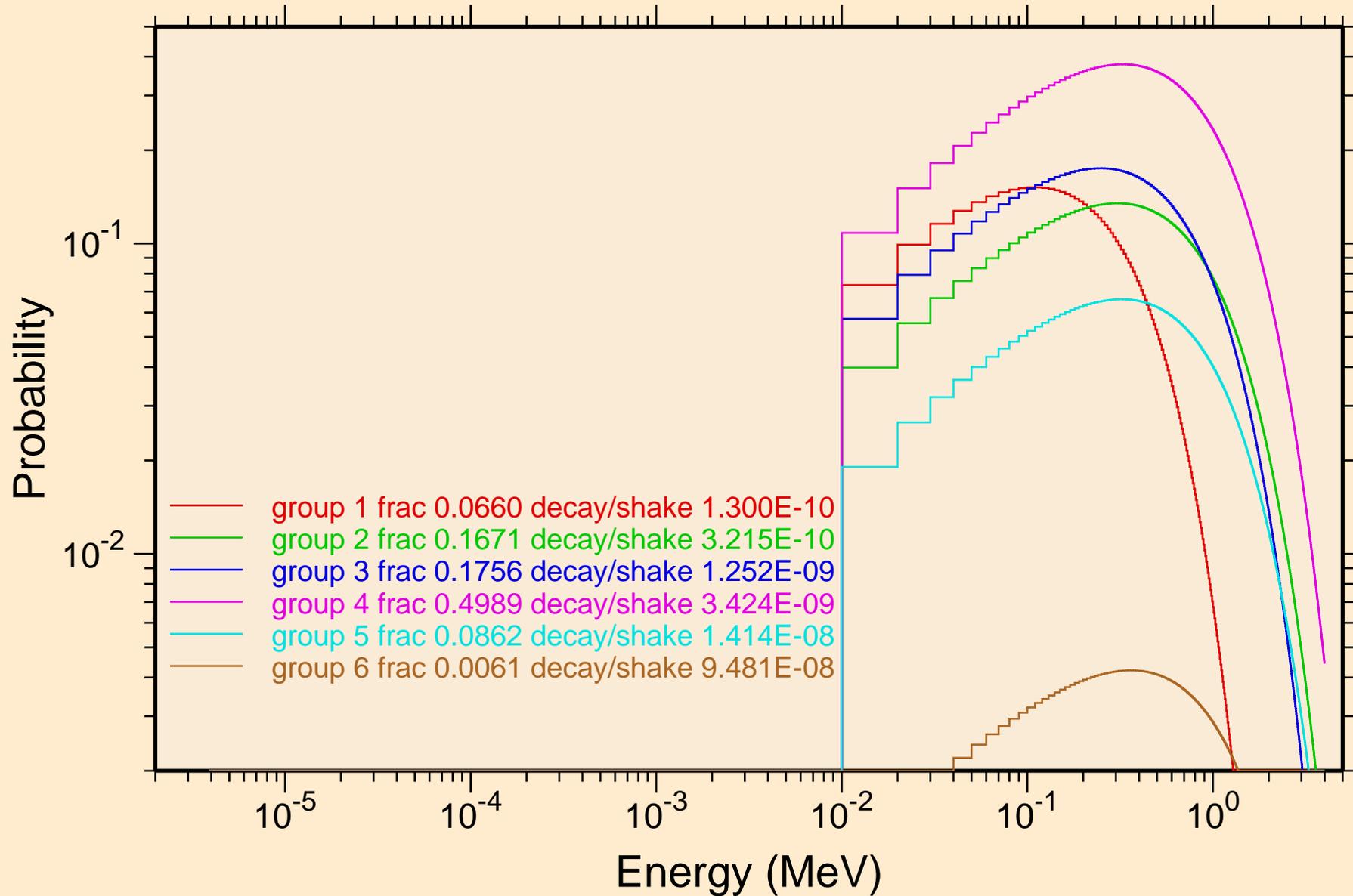
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## Delayed nubar

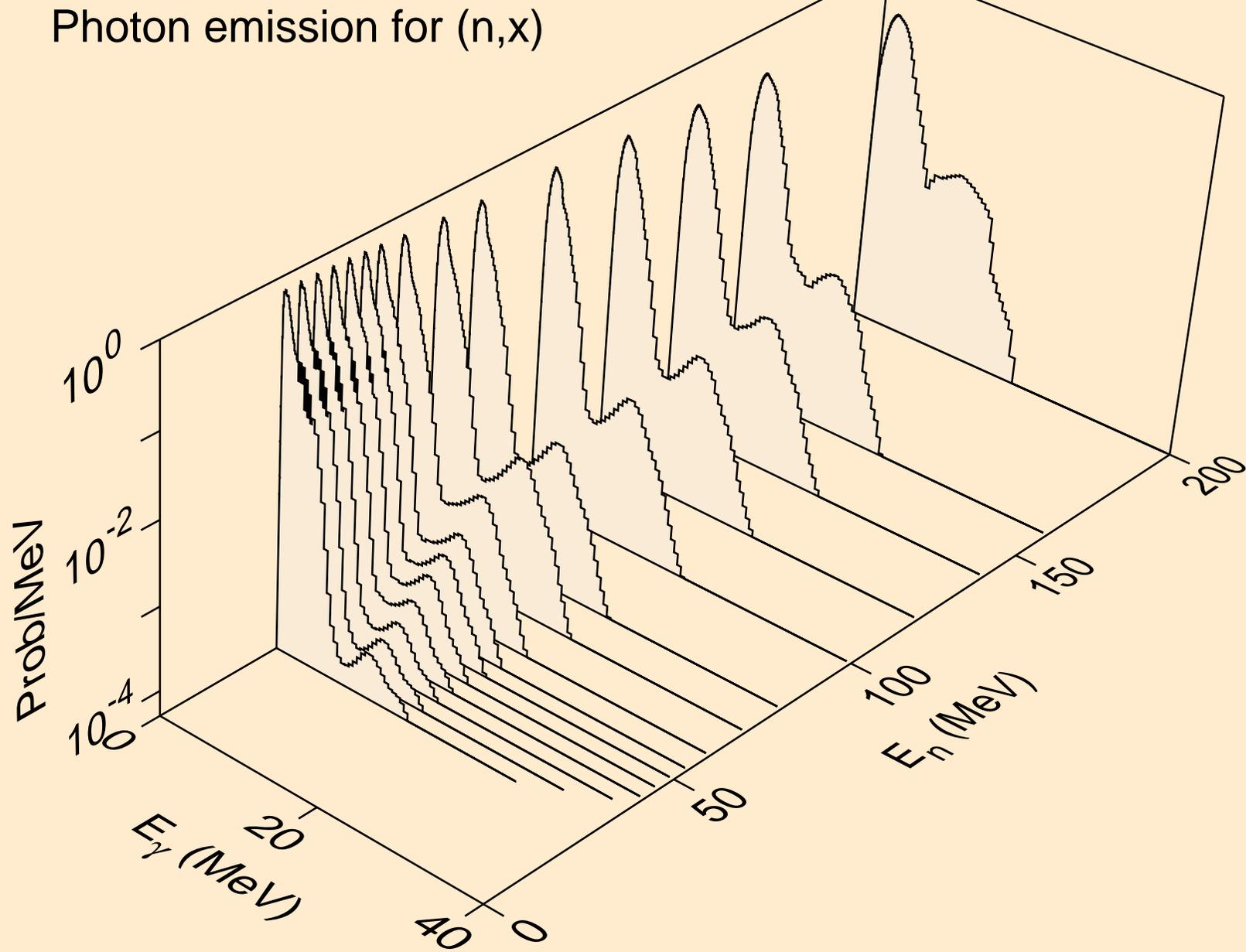


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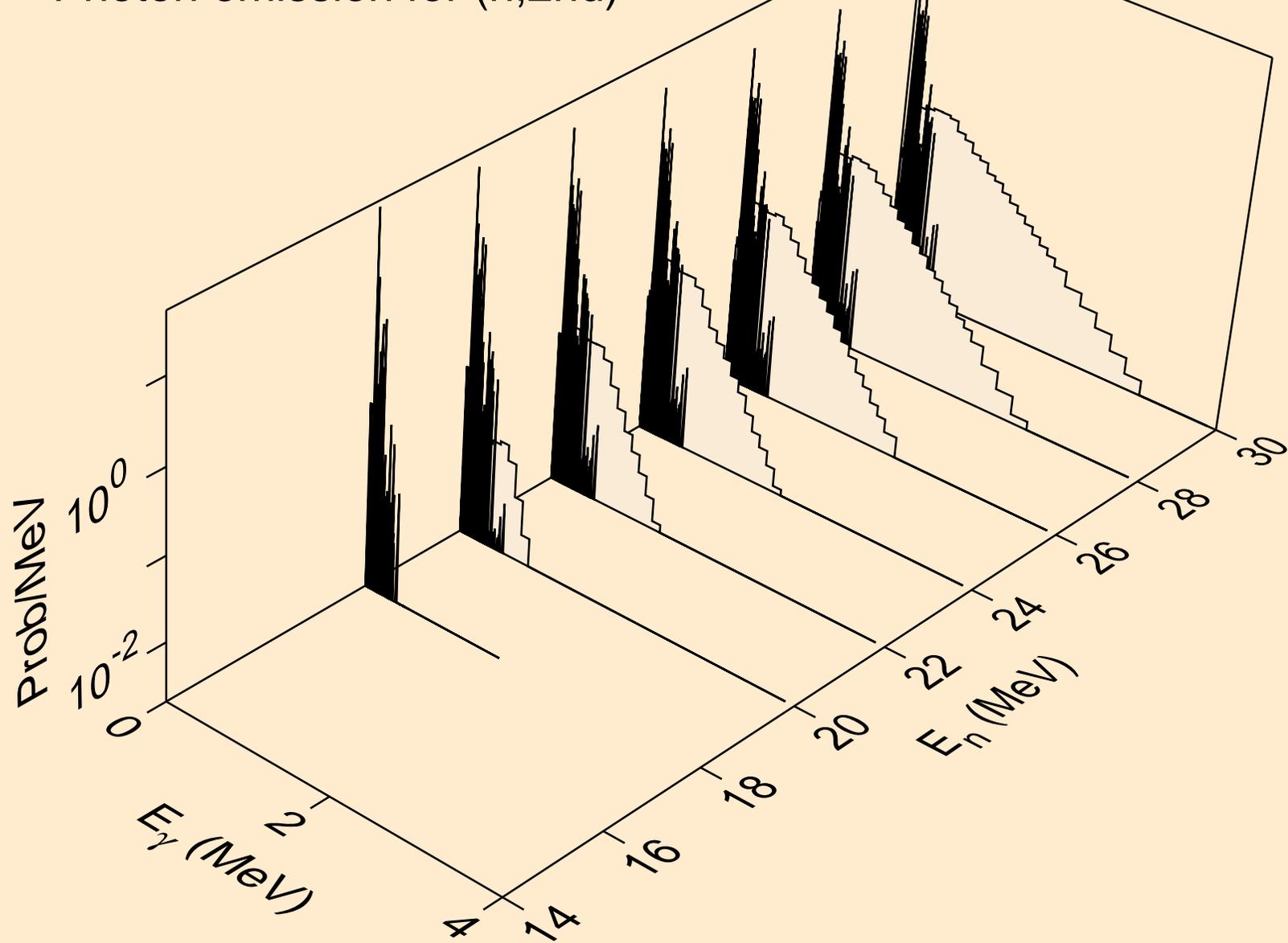
## Delayed neutron spectra



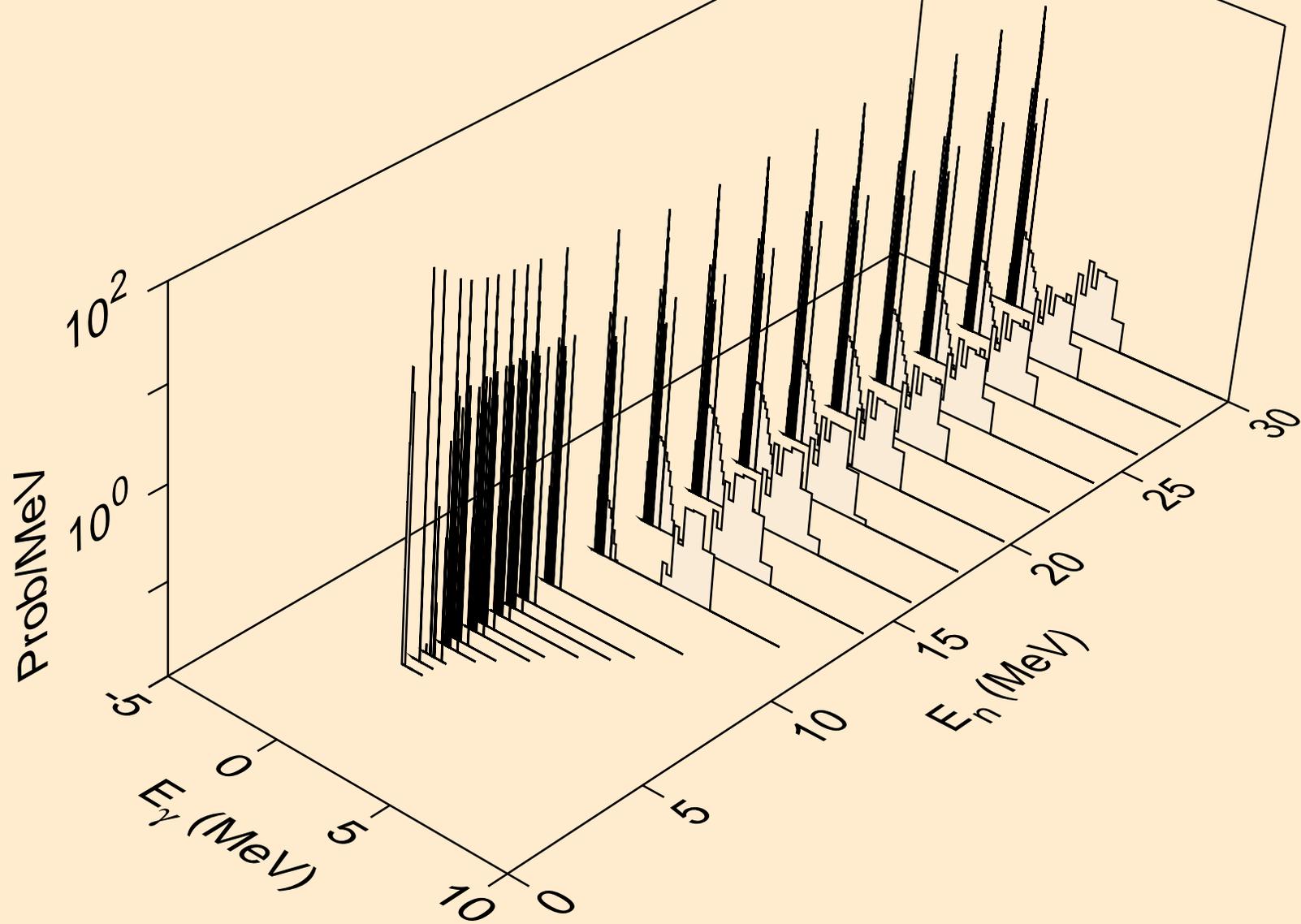
RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
Photon emission for (n,x)



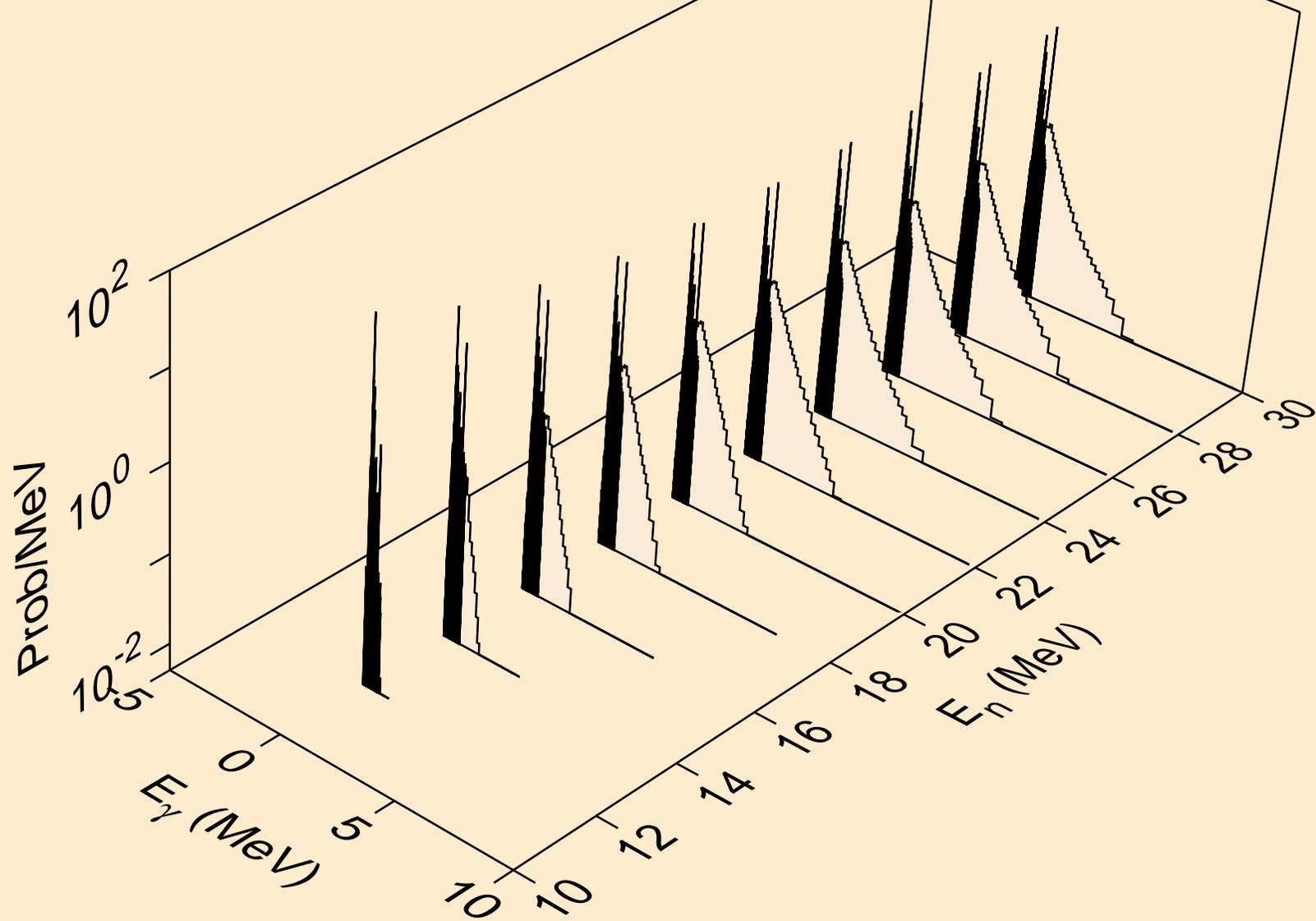
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Photon emission for (n,2nd)



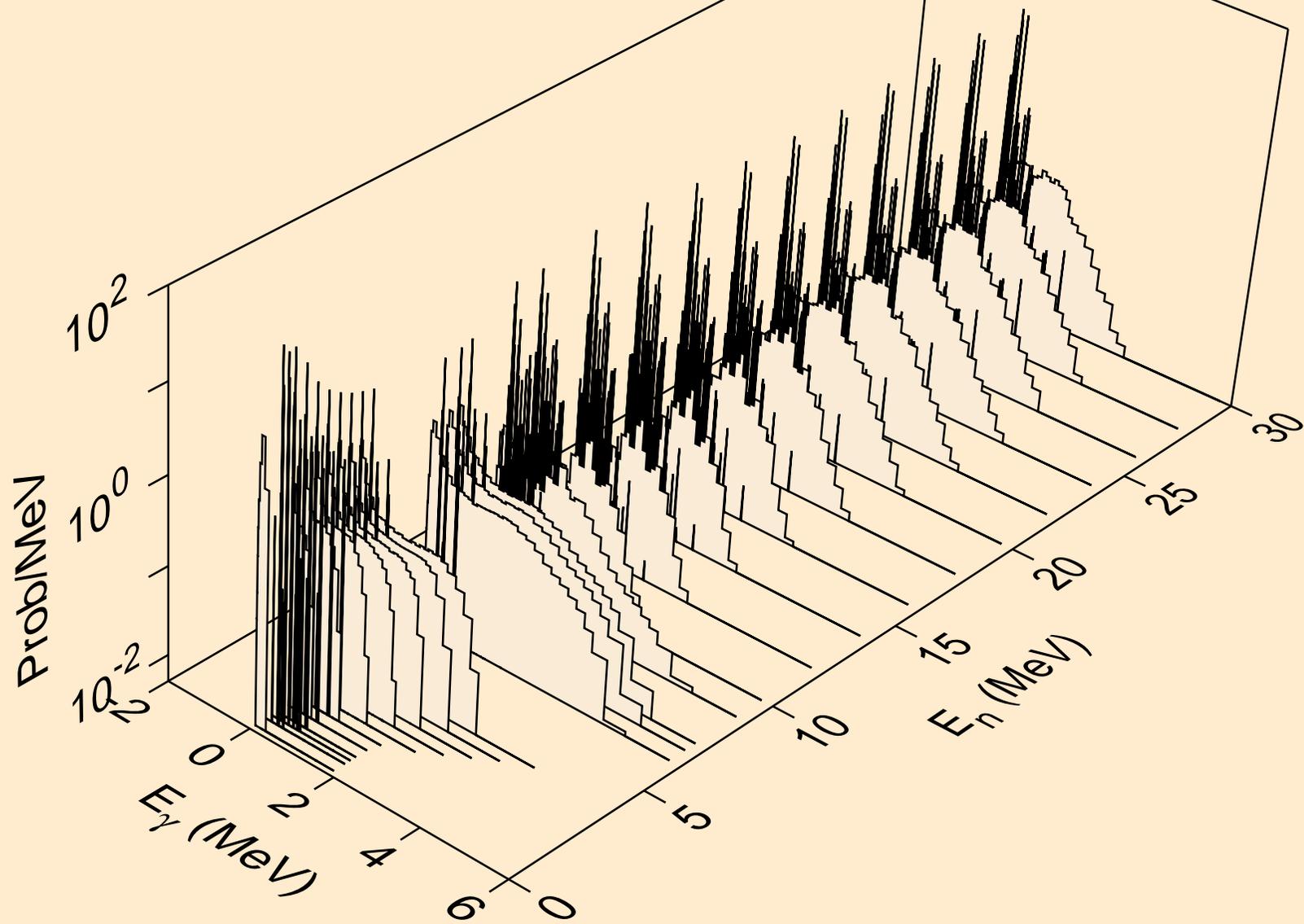
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Photon emission for (n,2n)



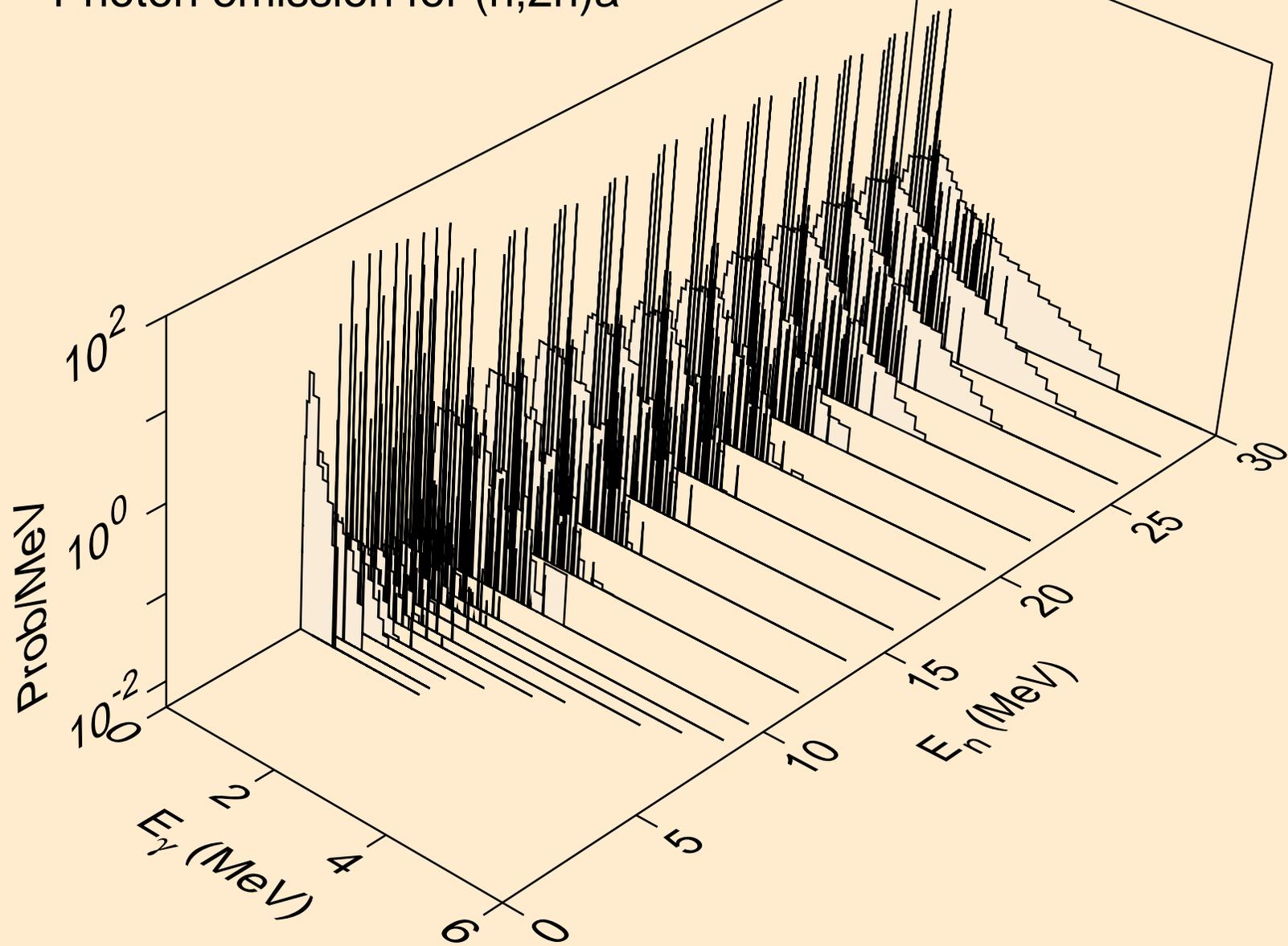
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Photon emission for (n,3n)



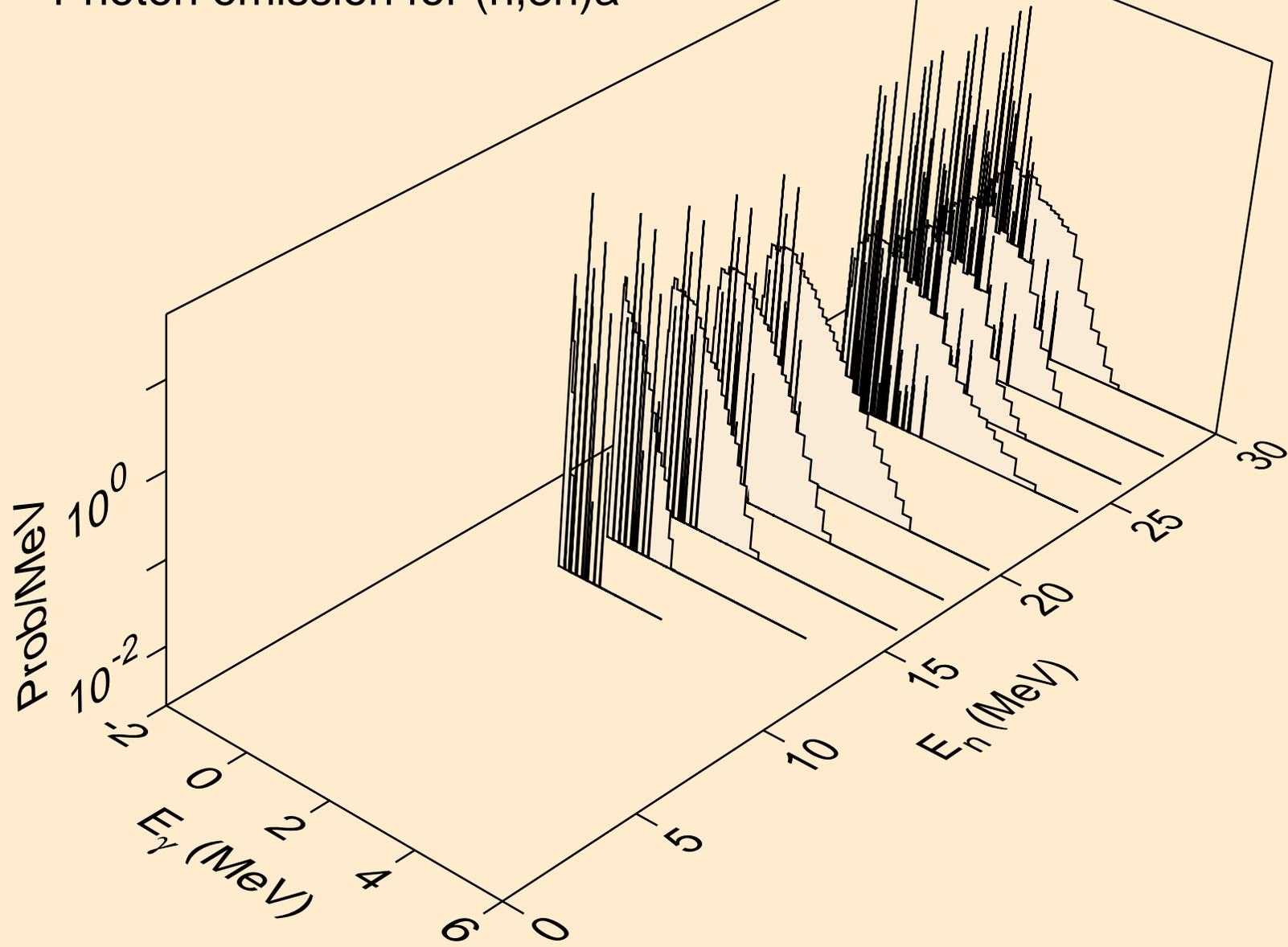
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Photon emission for (n,n\*)a



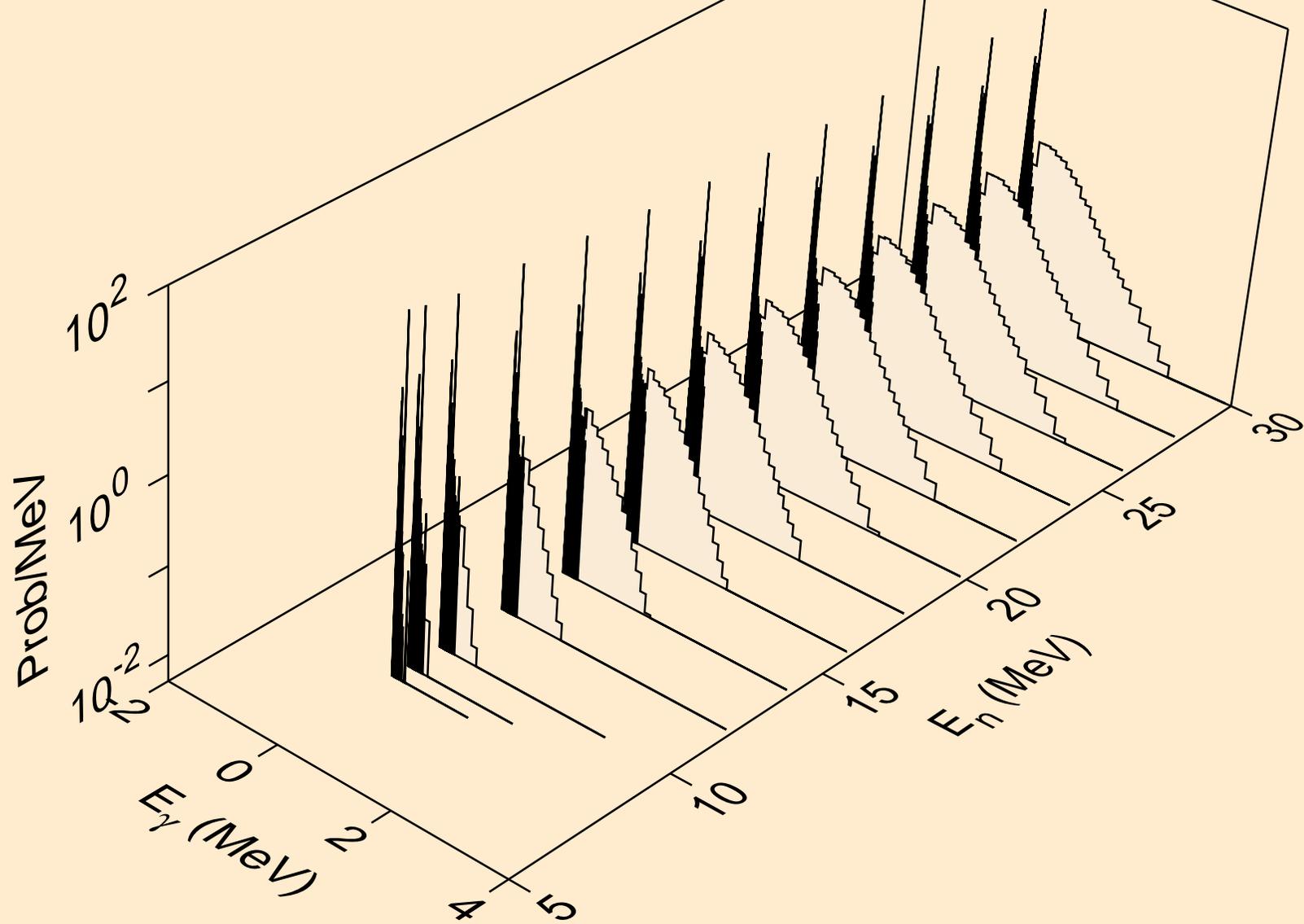
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Photon emission for (n,2n)a



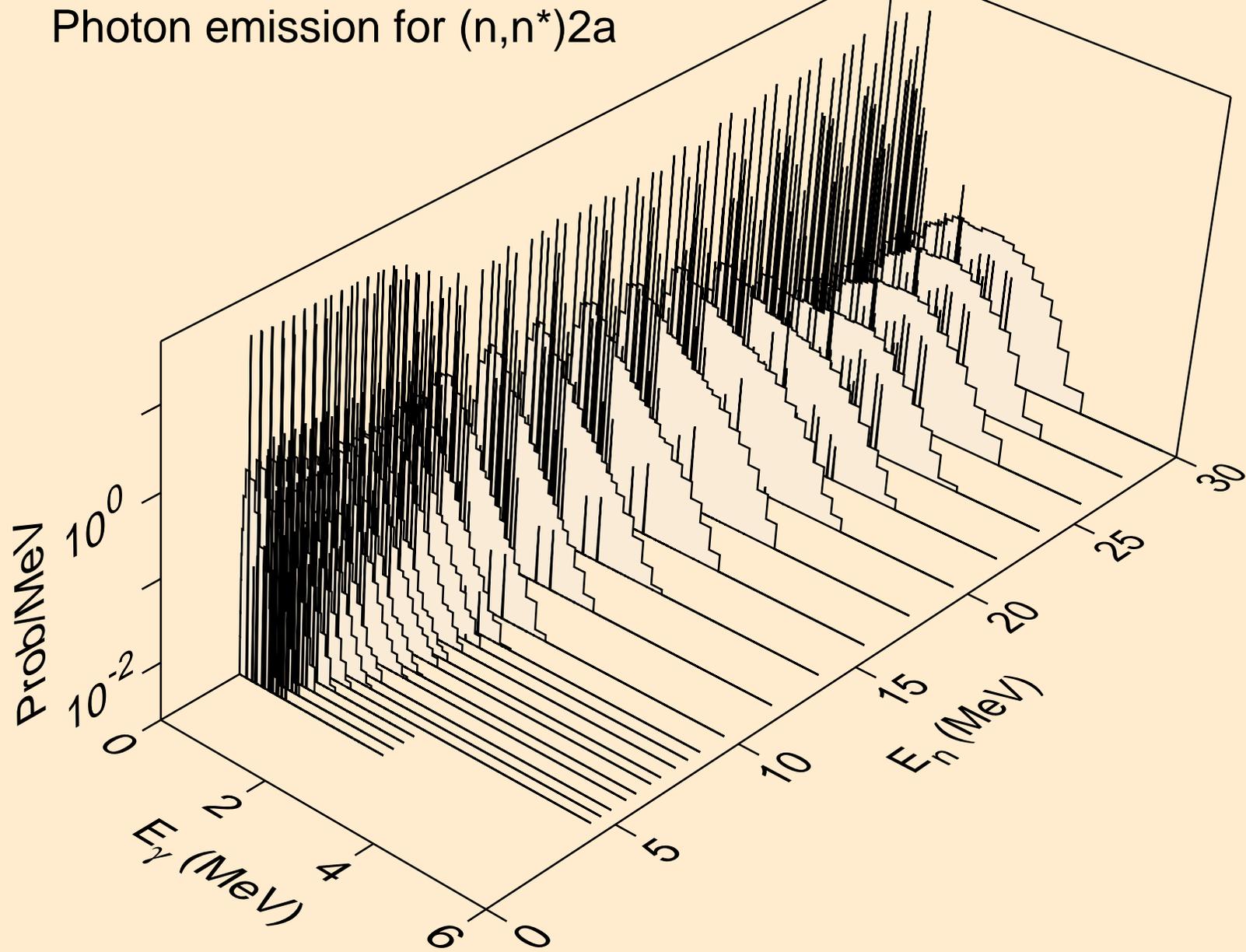
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Photon emission for (n,3n)a



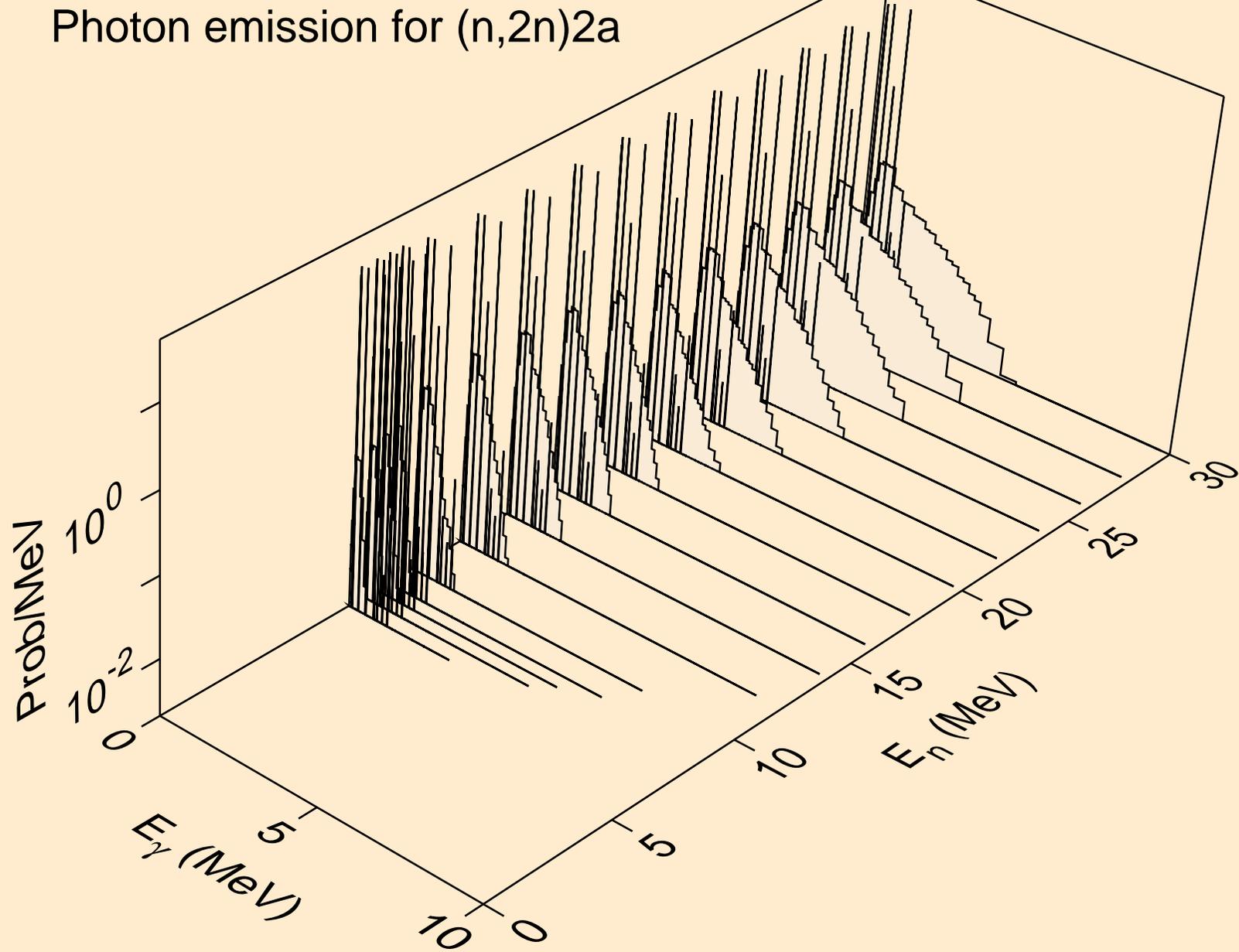
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Photon emission for (n,n\*)p



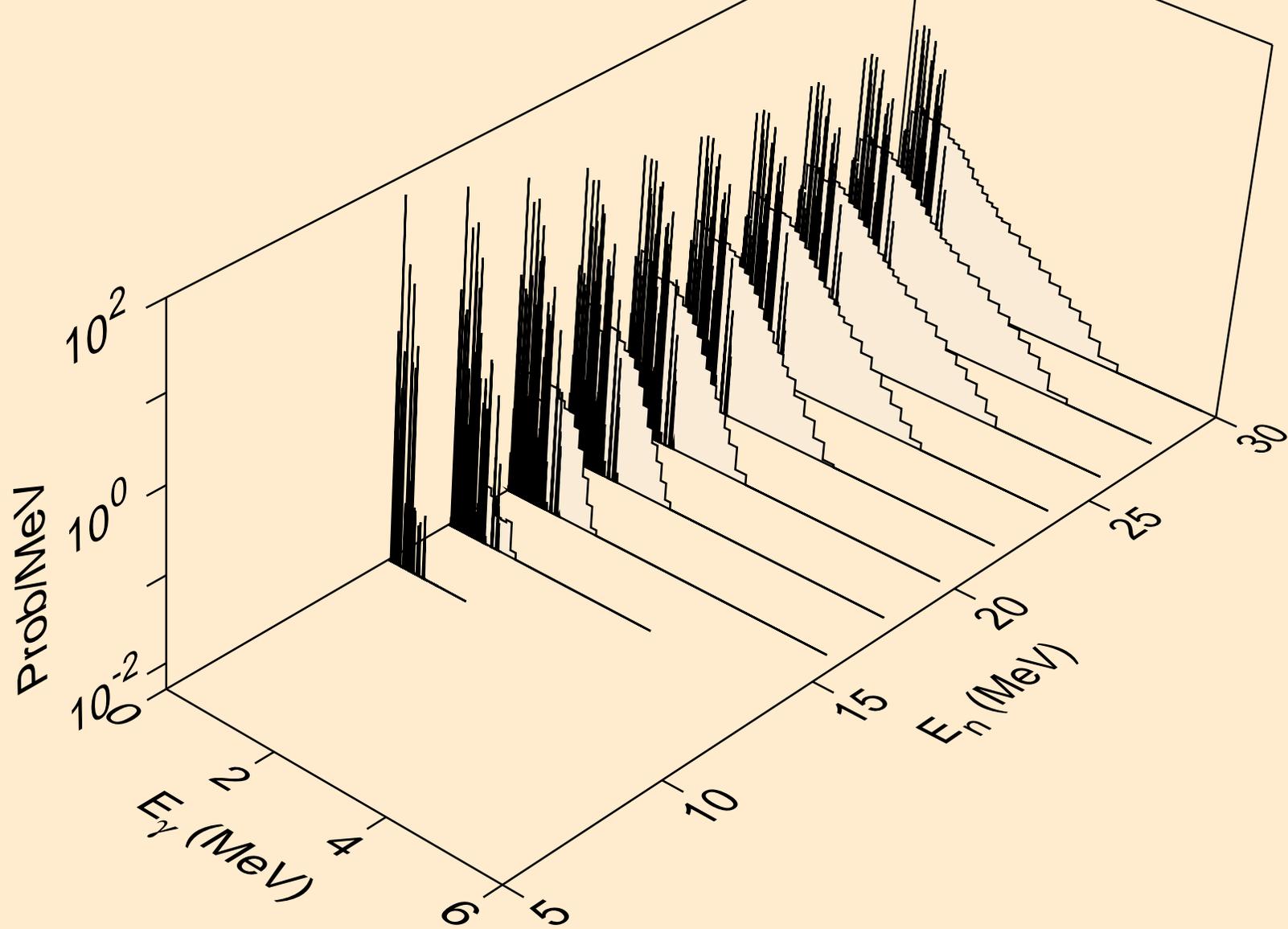
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Photon emission for (n,n\*)2a



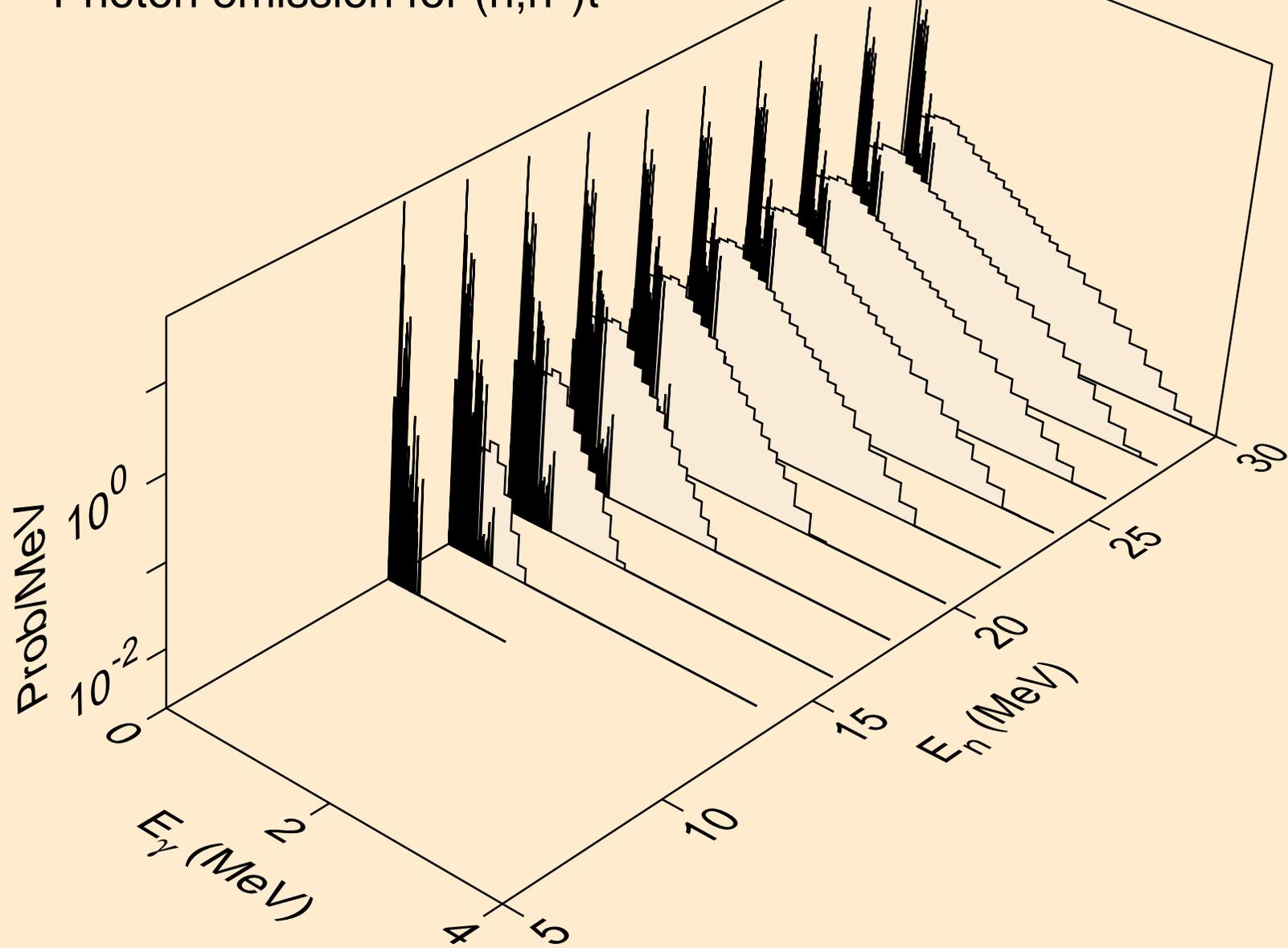
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Photon emission for (n,2n)2a



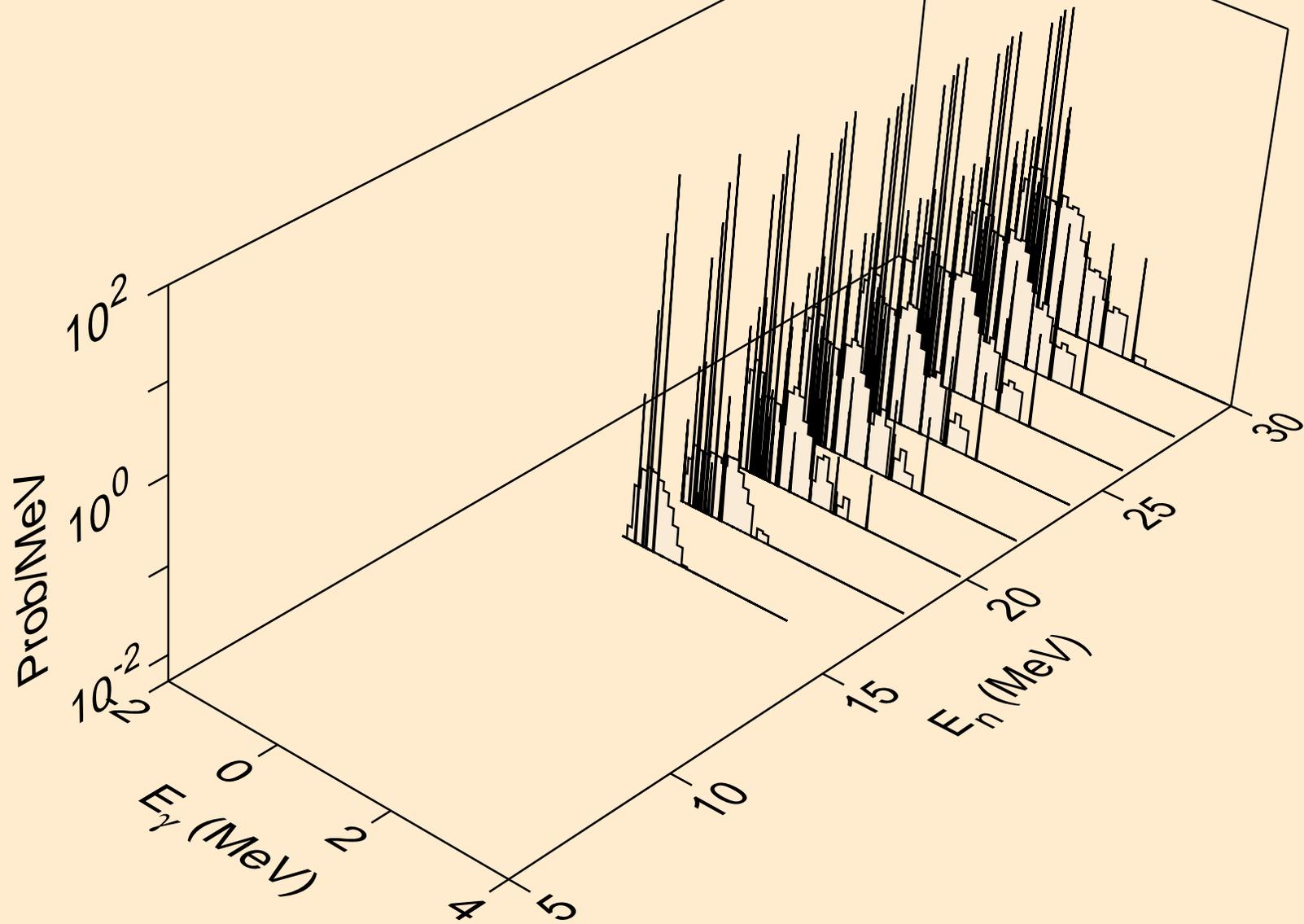
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Photon emission for (n,n\*)d



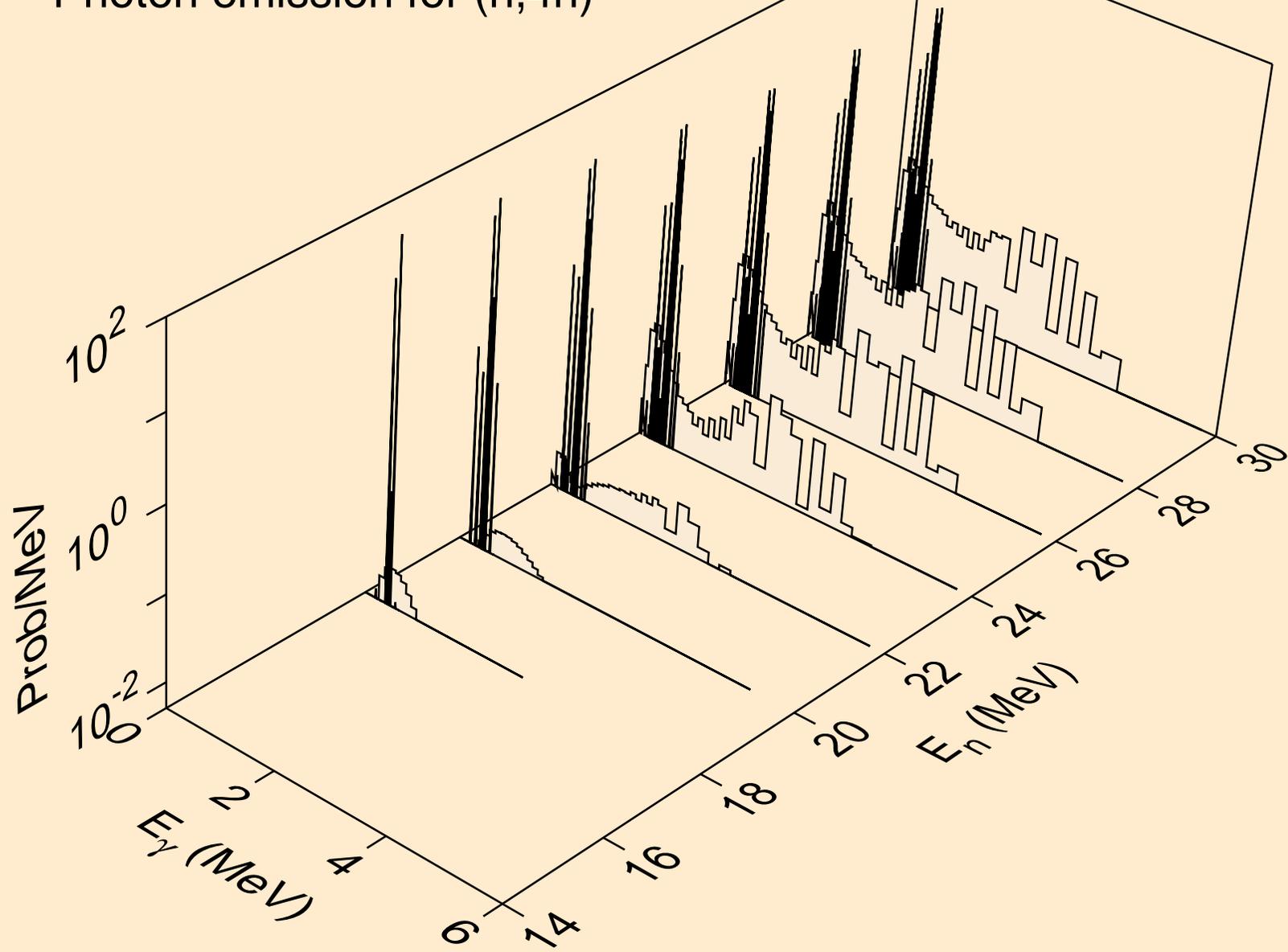
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Photon emission for (n,n\*)t



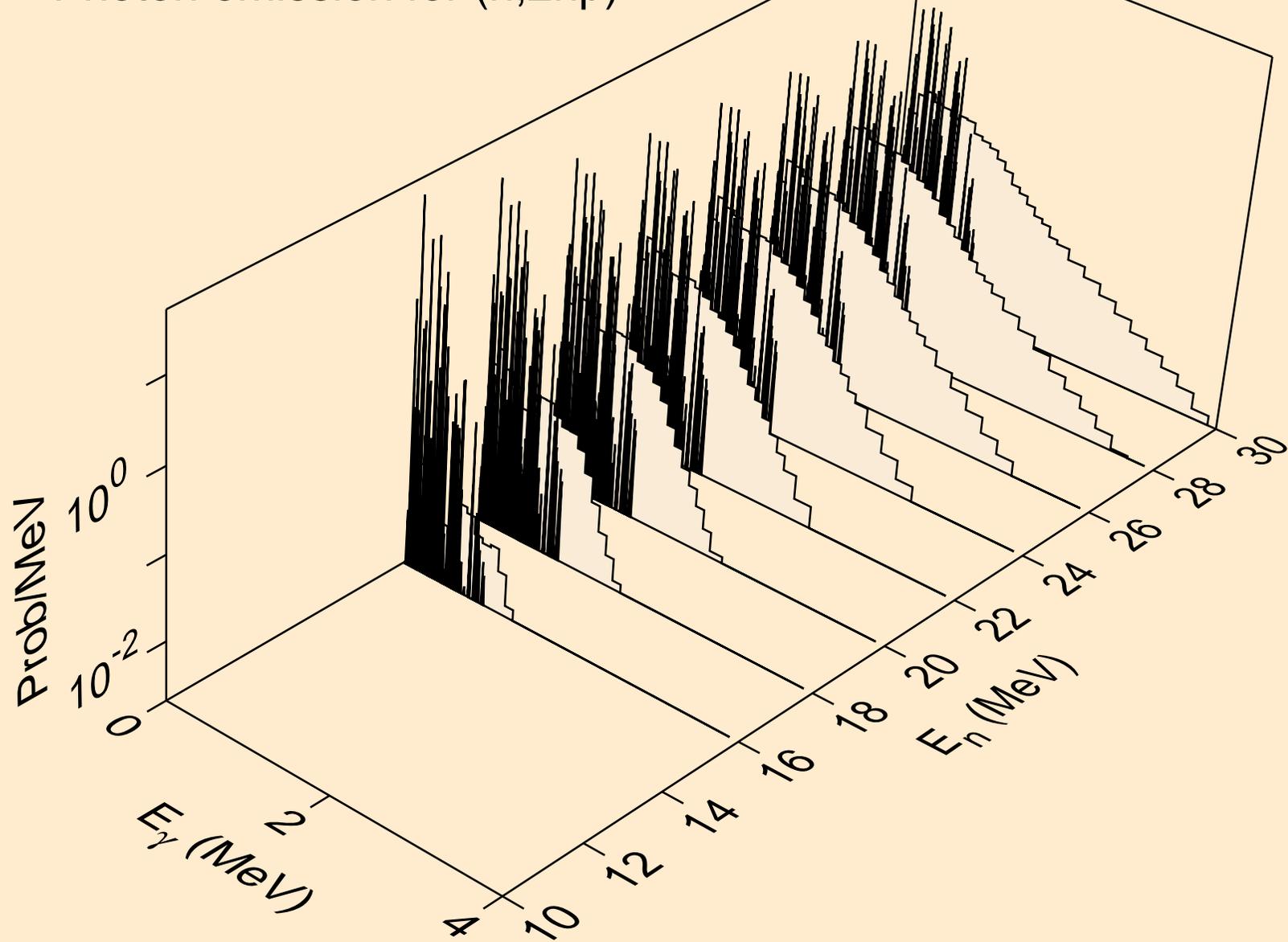
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Photon emission for (n,n\*)he3



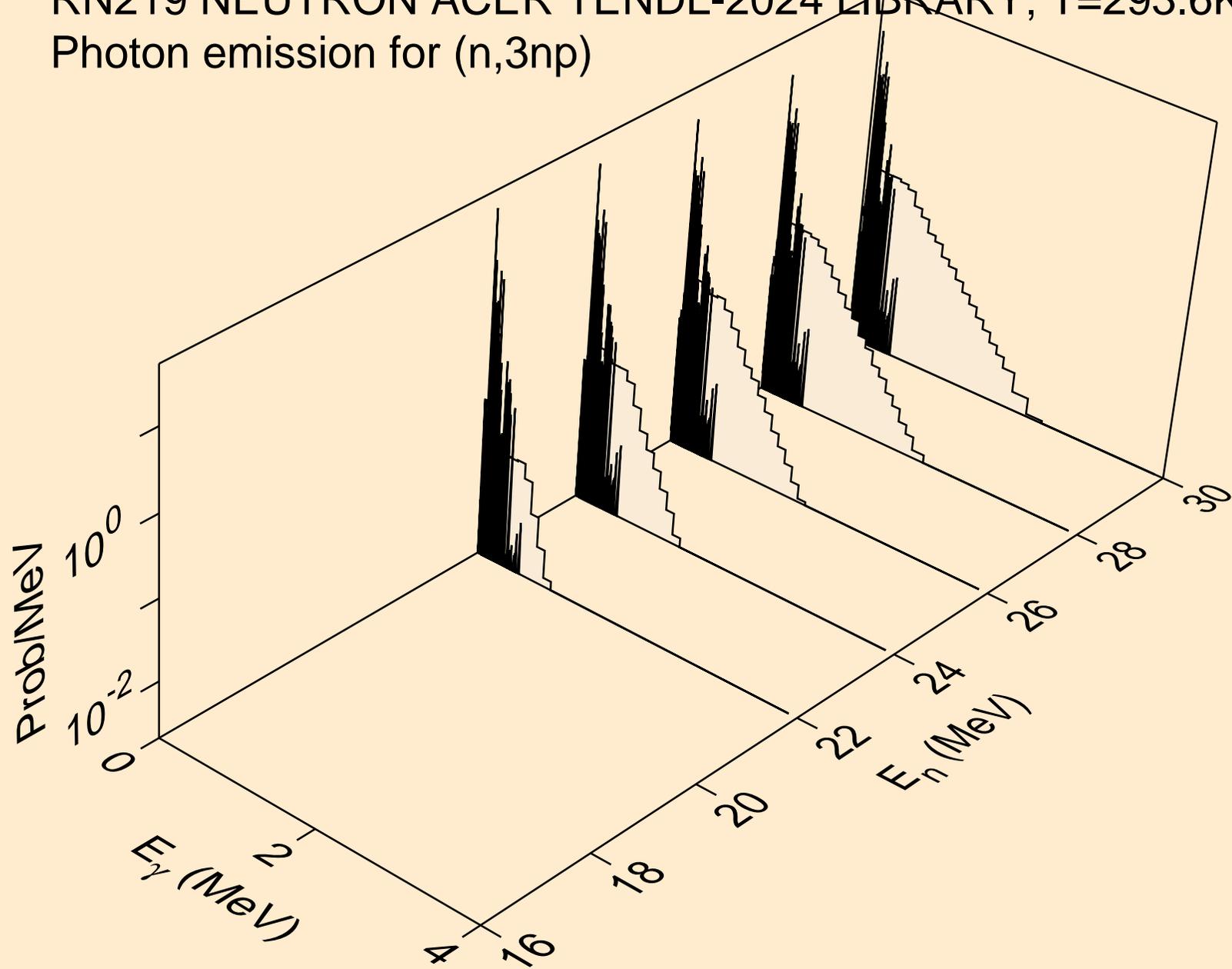
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Photon emission for (n,4n)



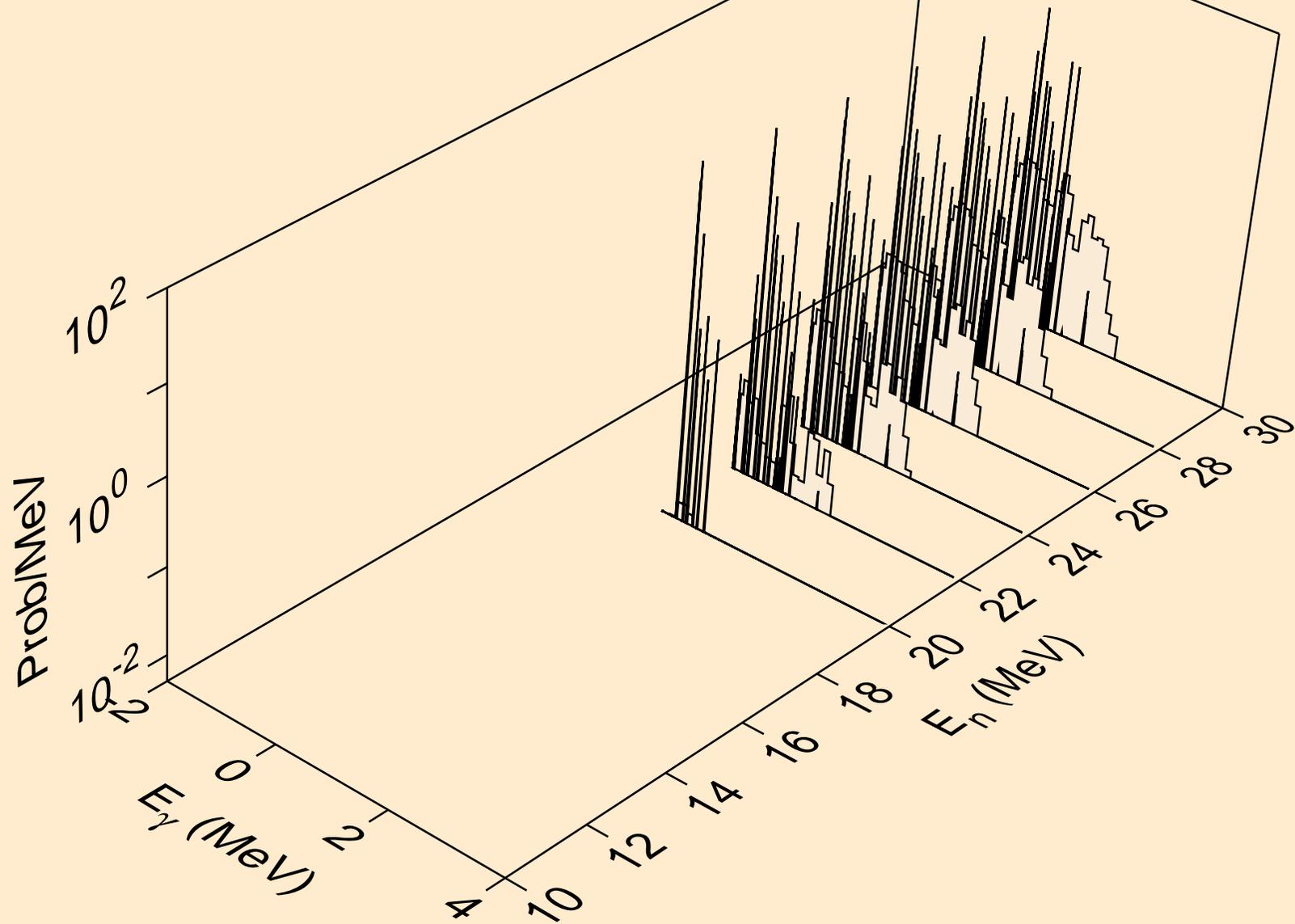
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Photon emission for (n,2np)



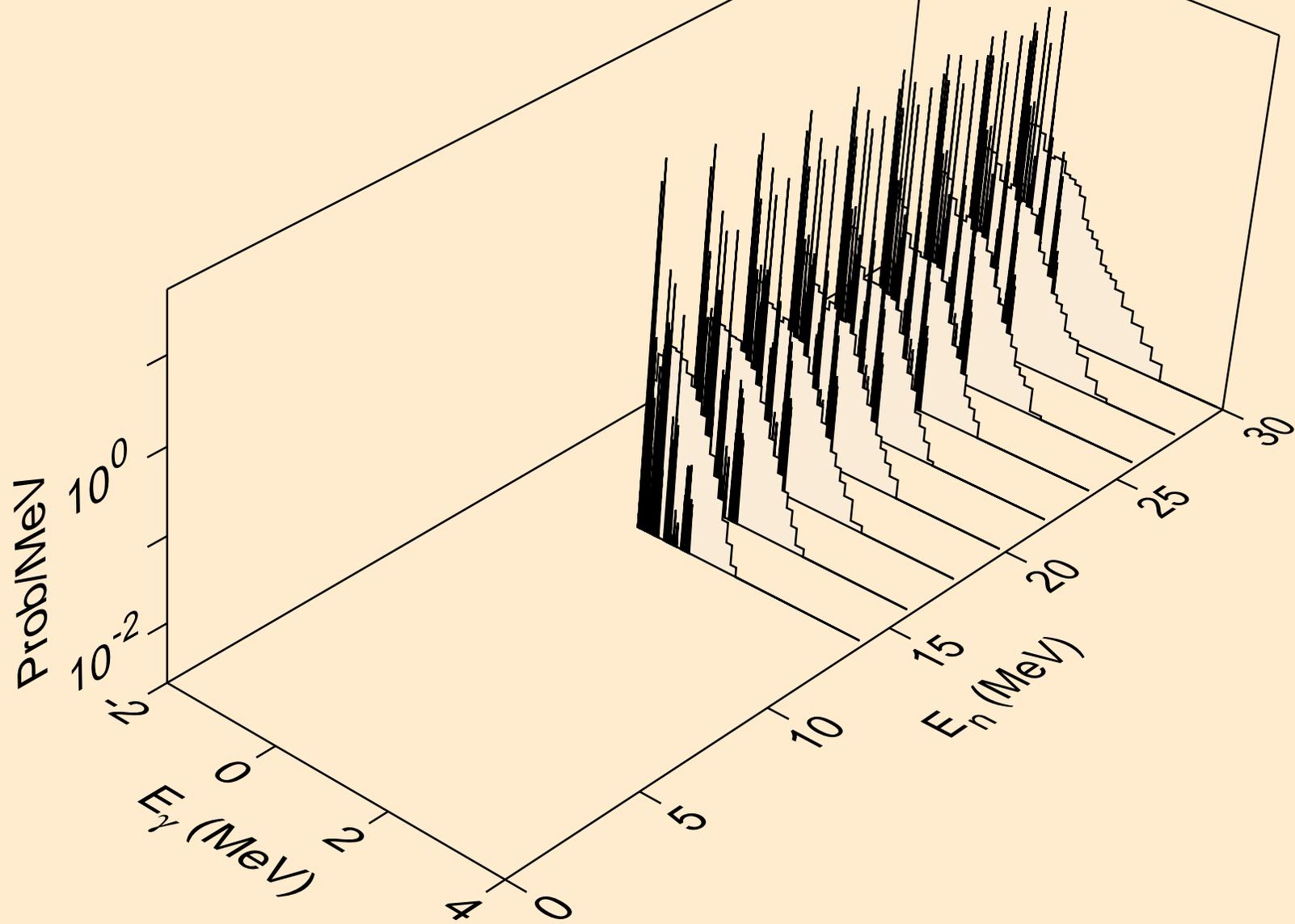
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Photon emission for (n,3np)



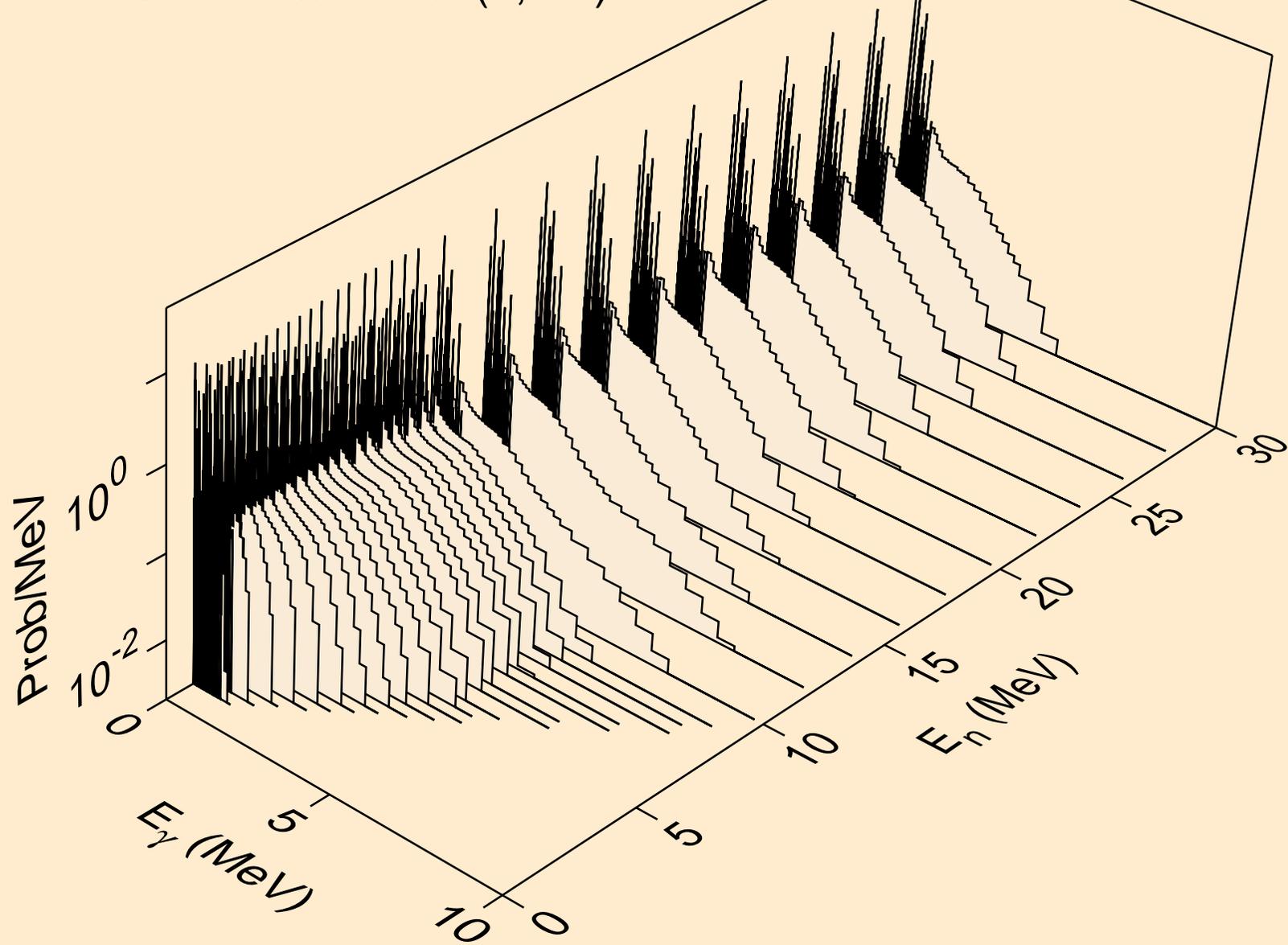
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Photon emission for (n,n2p)



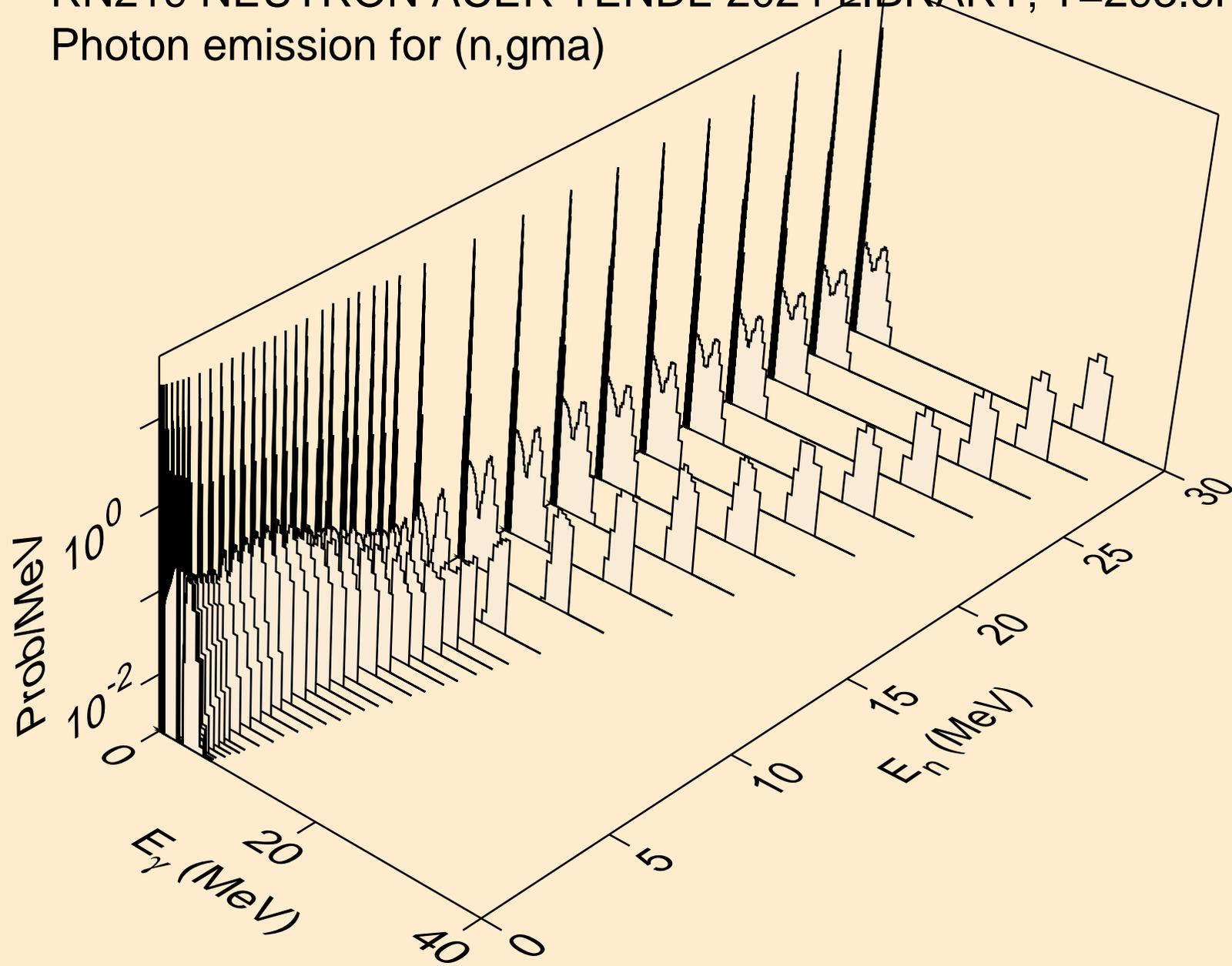
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Photon emission for (n,npa)



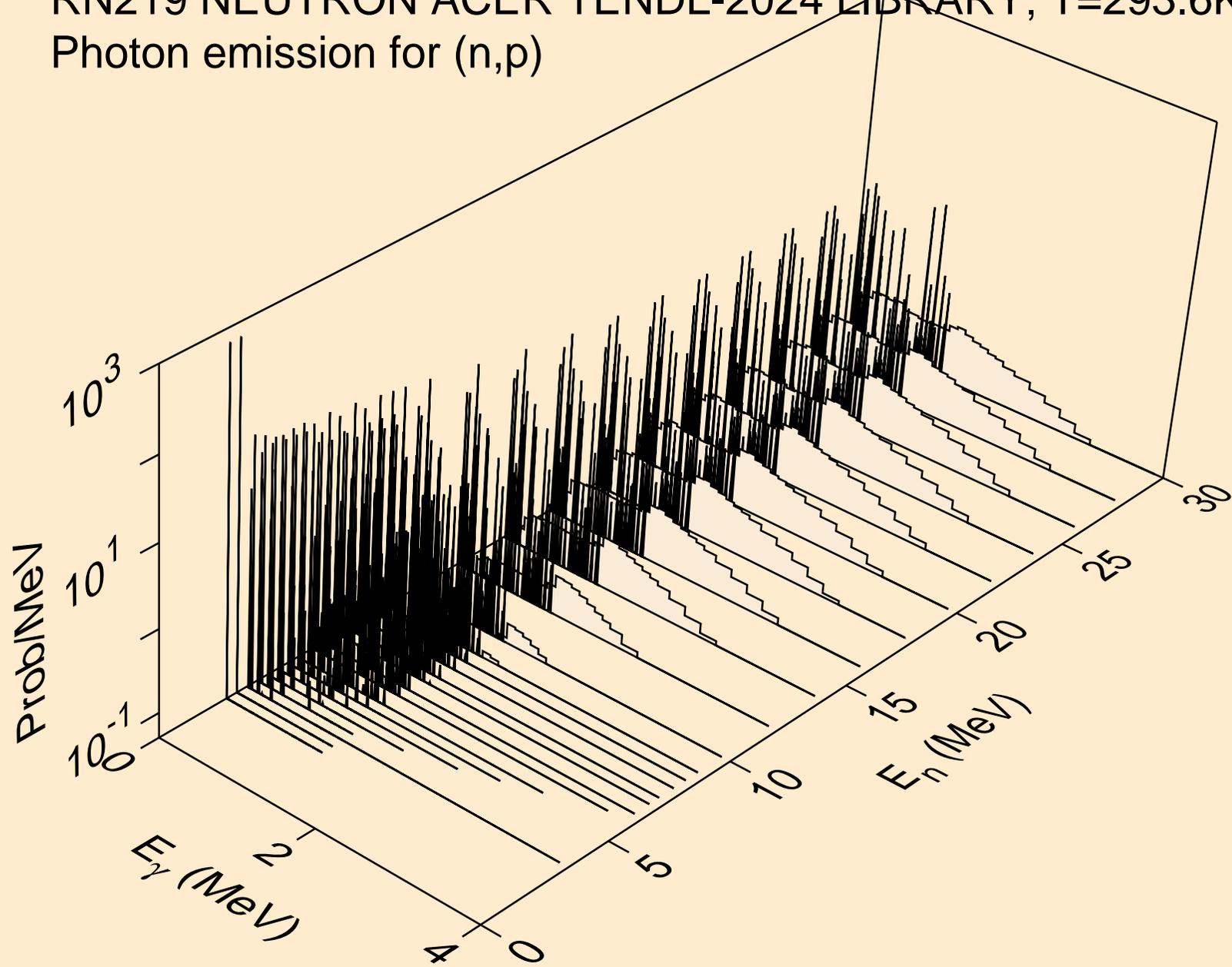
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Photon emission for (n,n\*c)



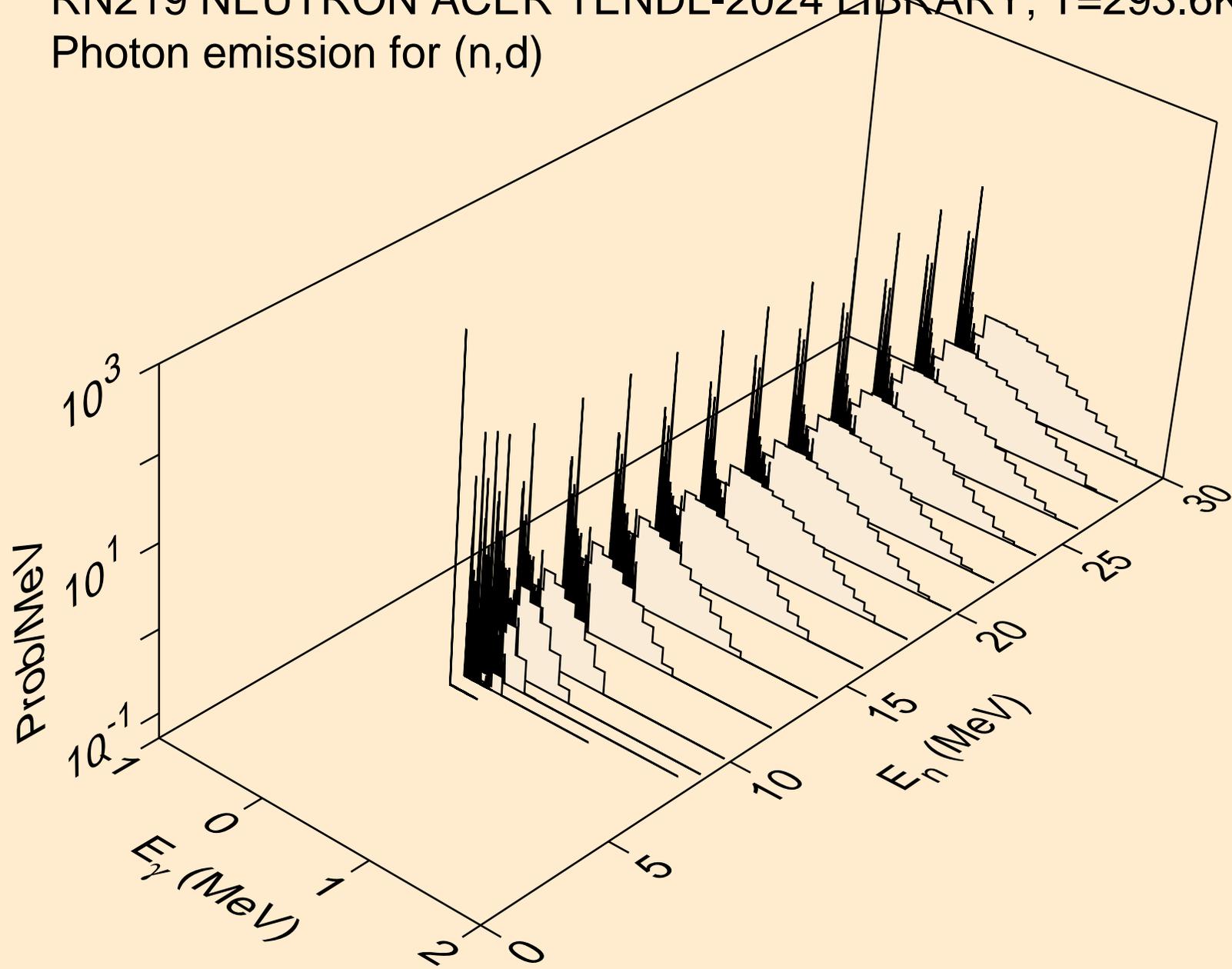
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Photon emission for (n,gma)



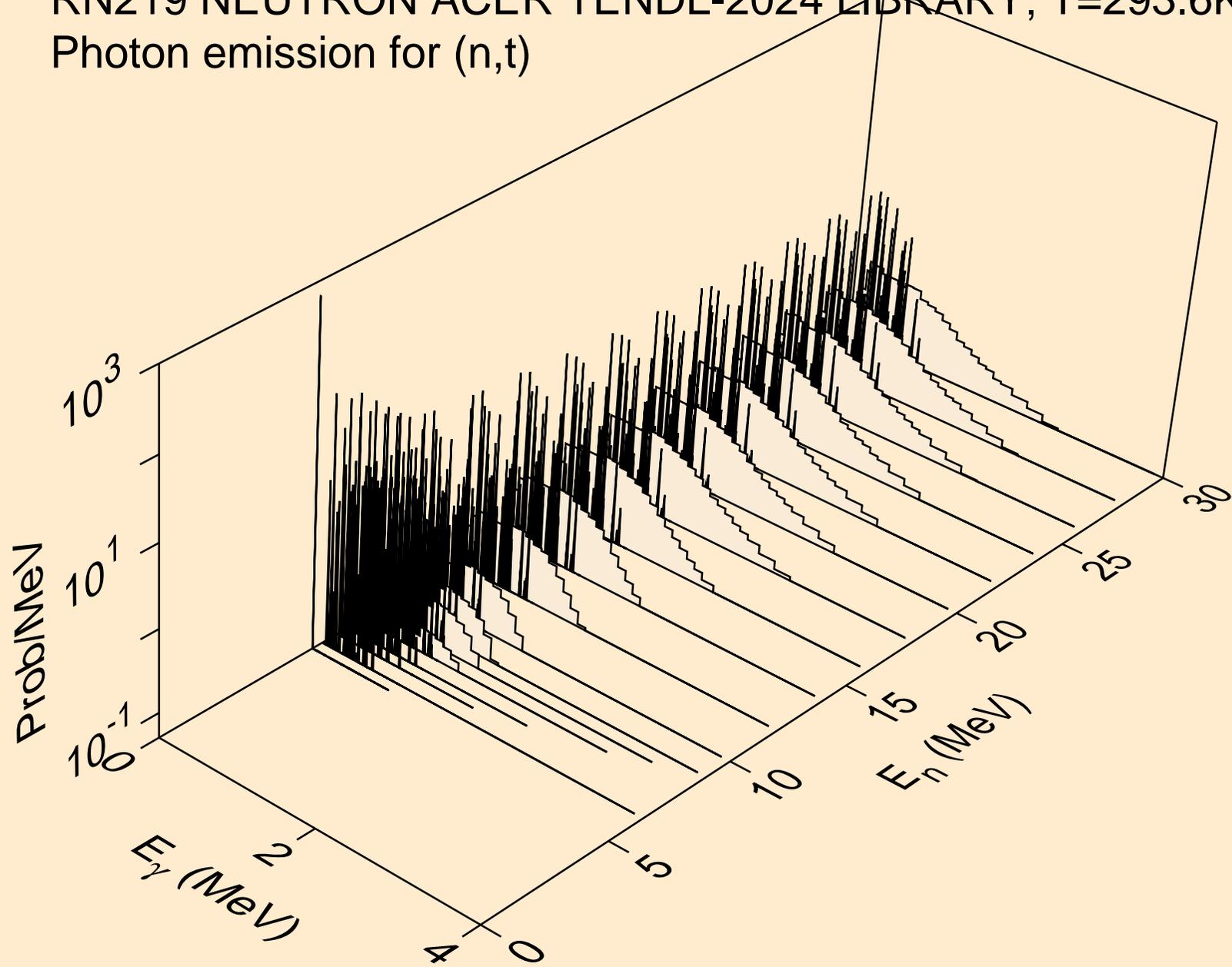
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Photon emission for (n,p)



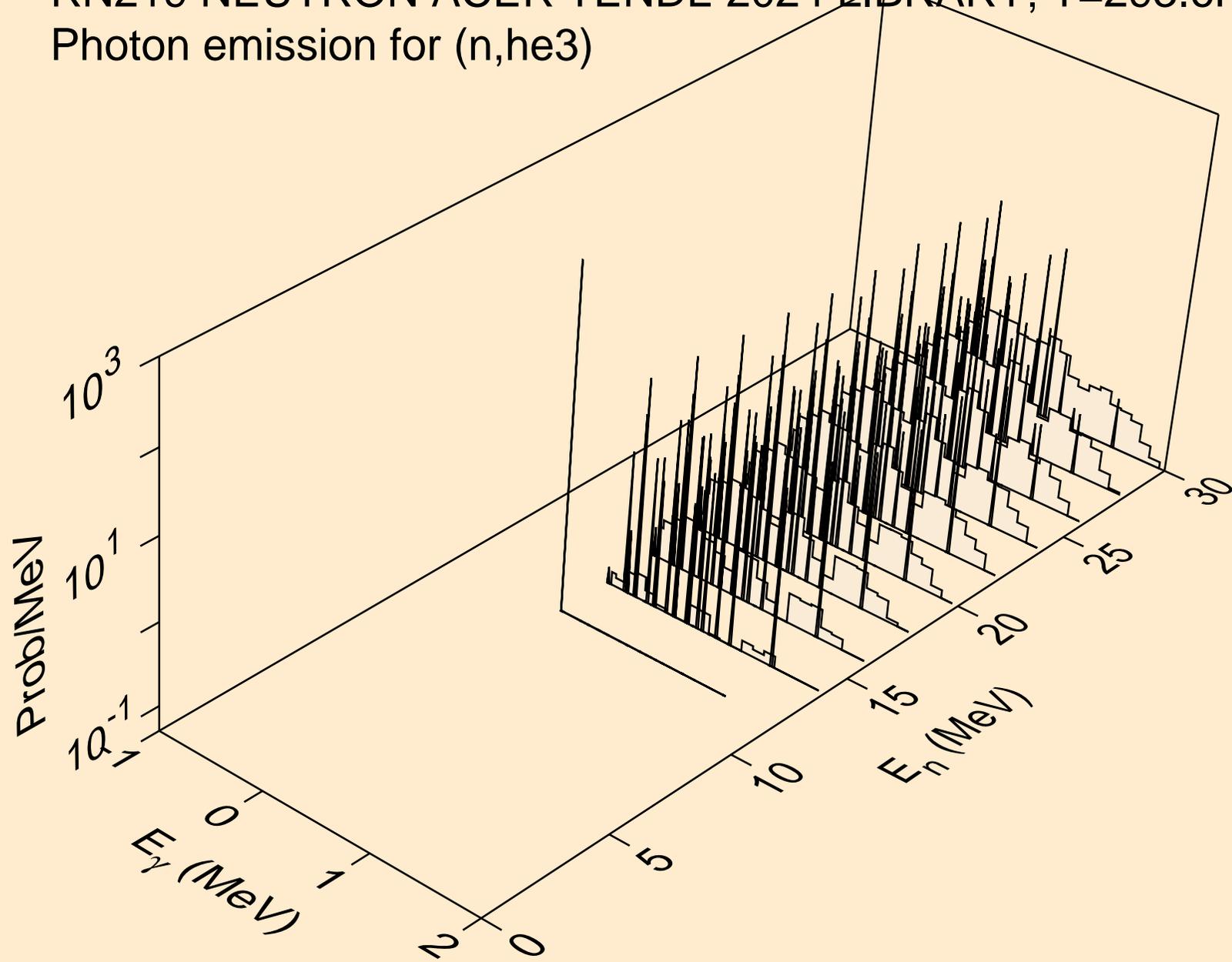
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Photon emission for (n,d)



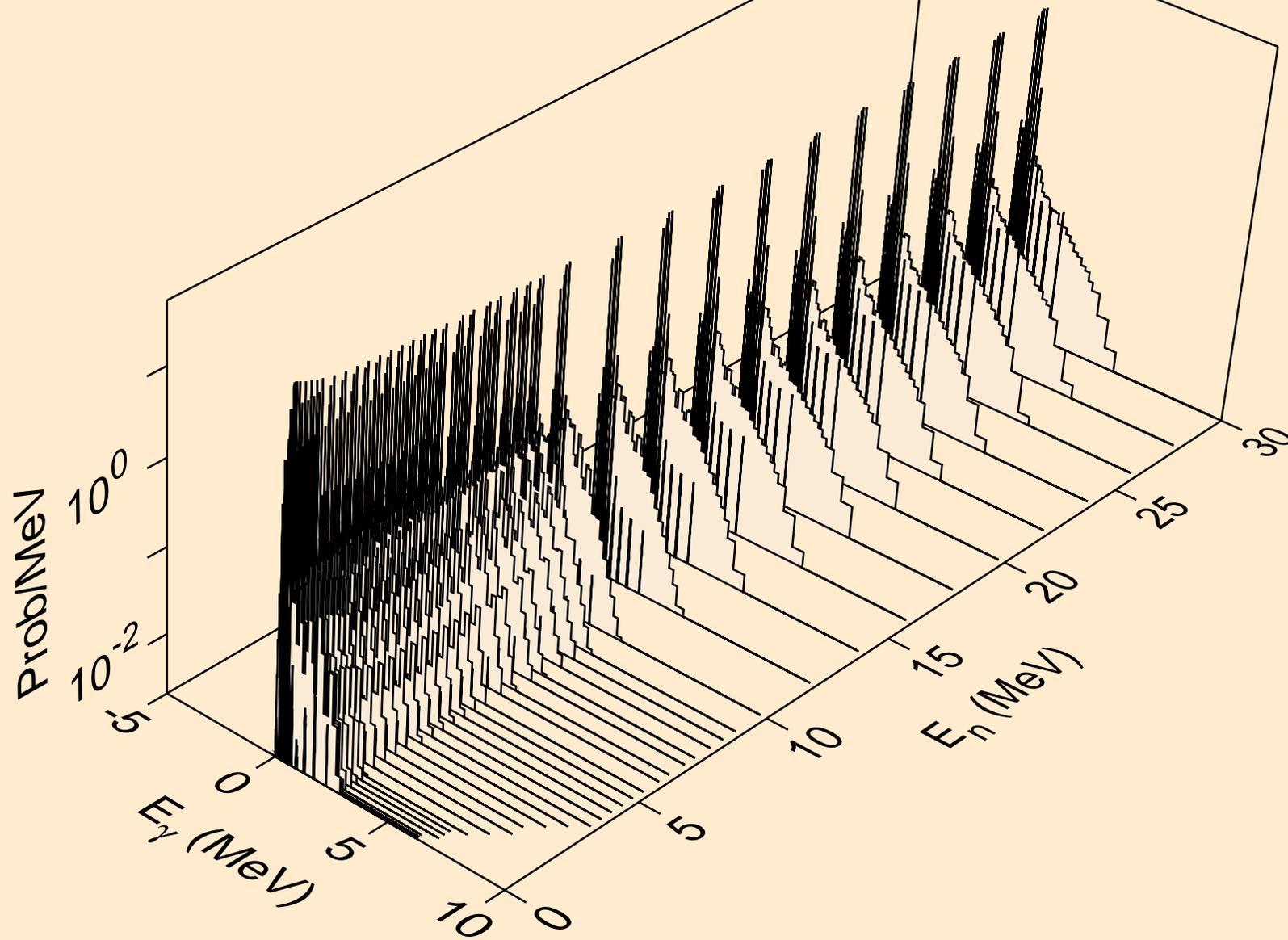
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Photon emission for (n,t)



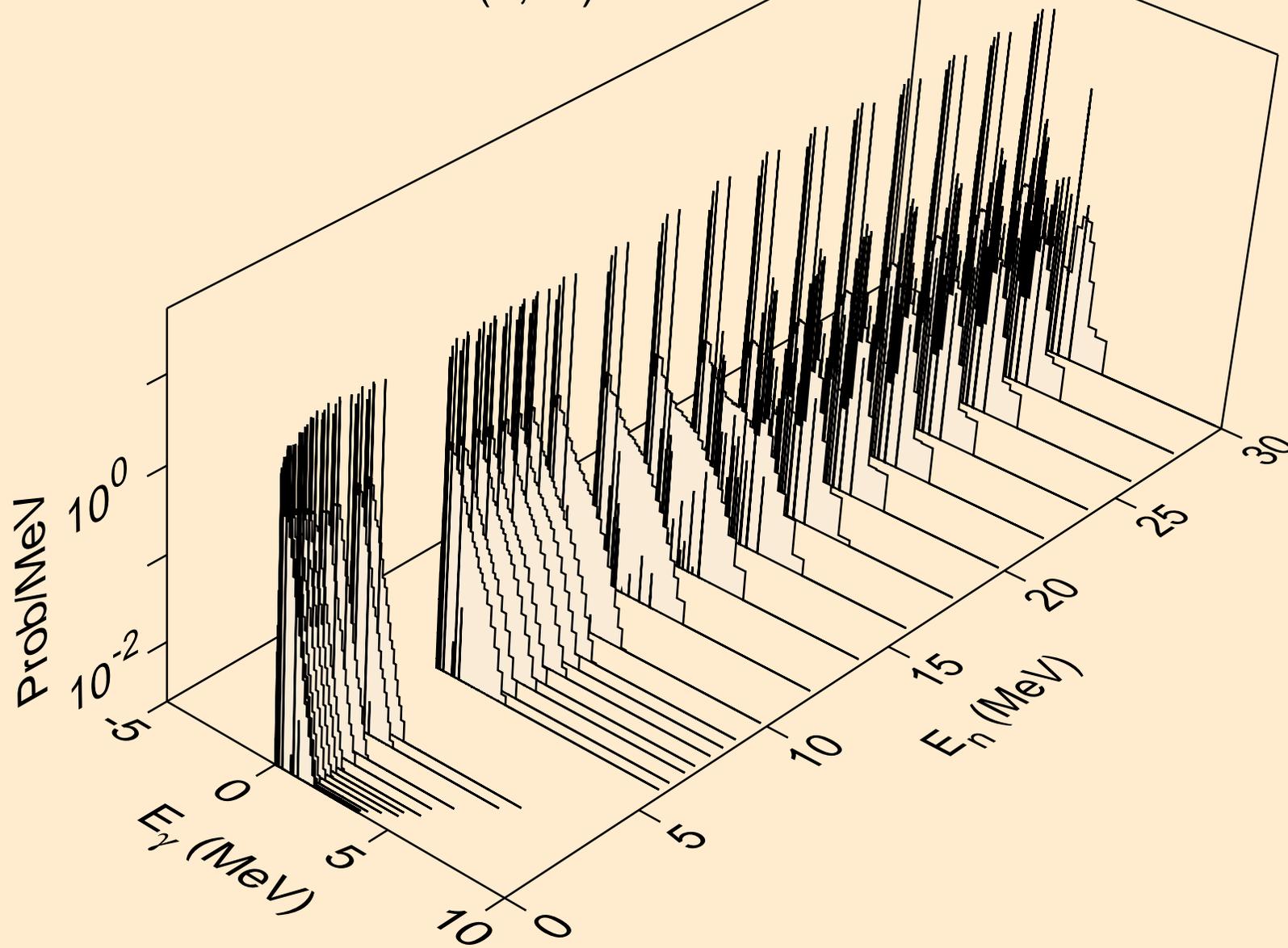
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Photon emission for (n,he3)



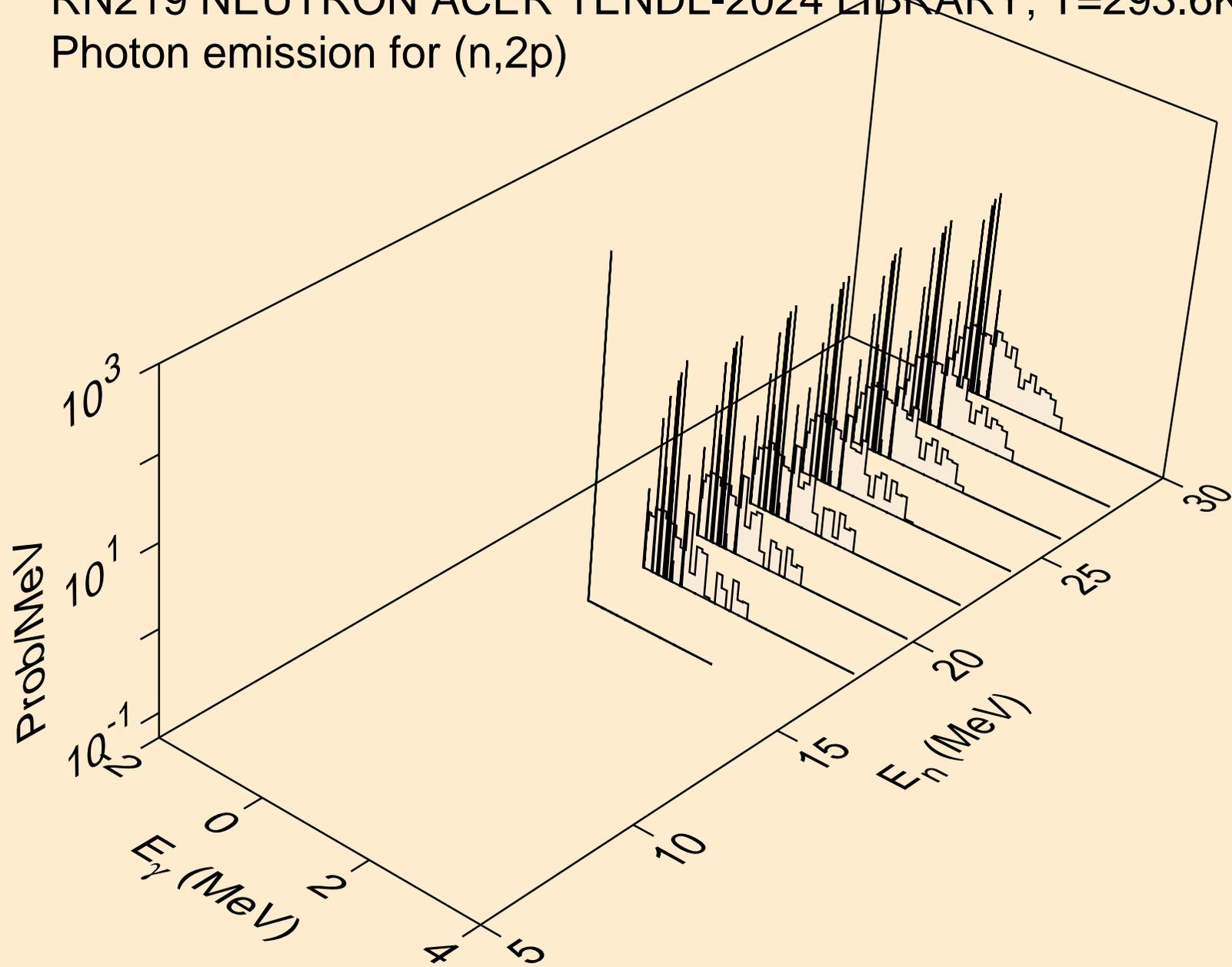
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Photon emission for (n,a)



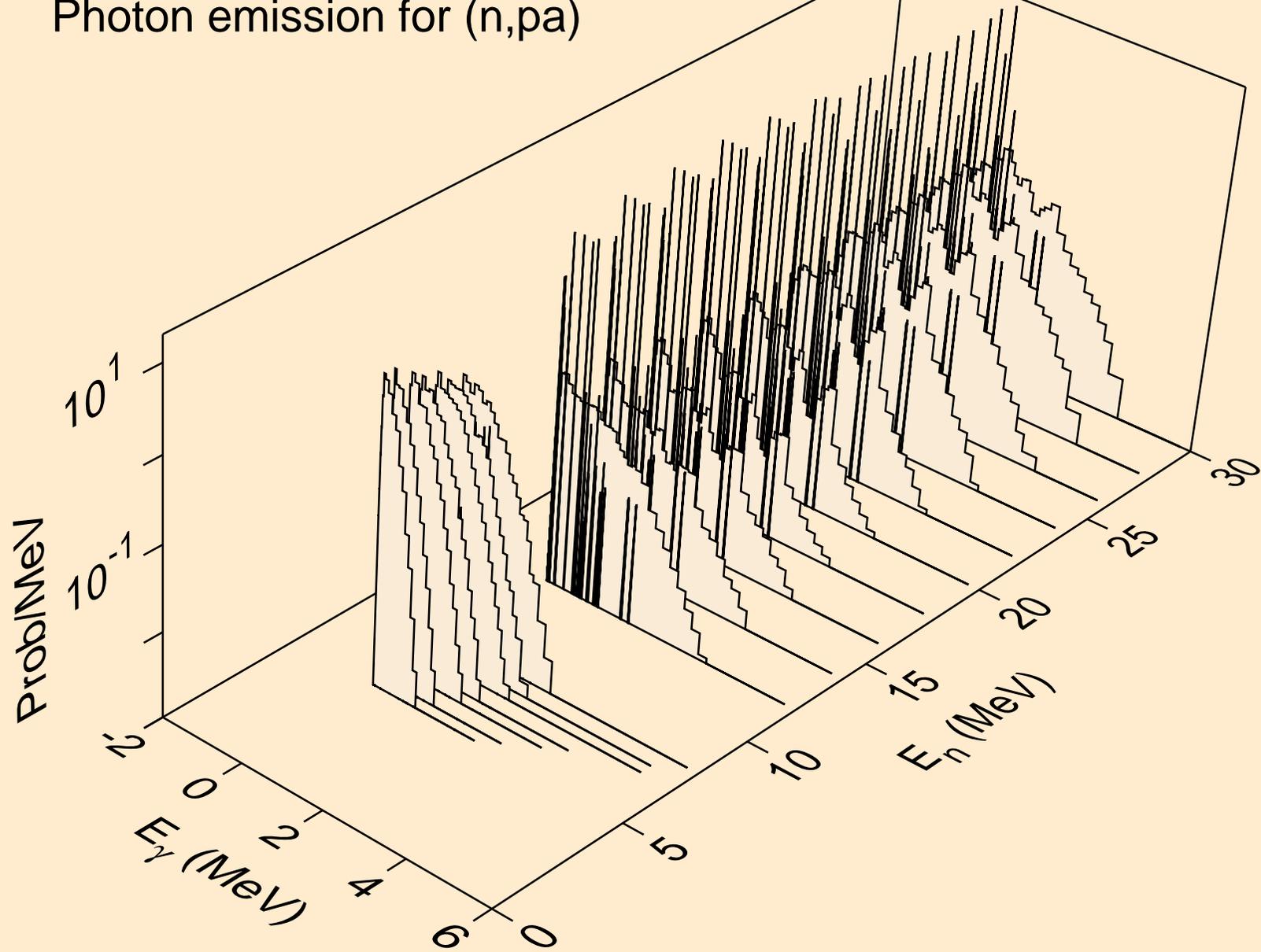
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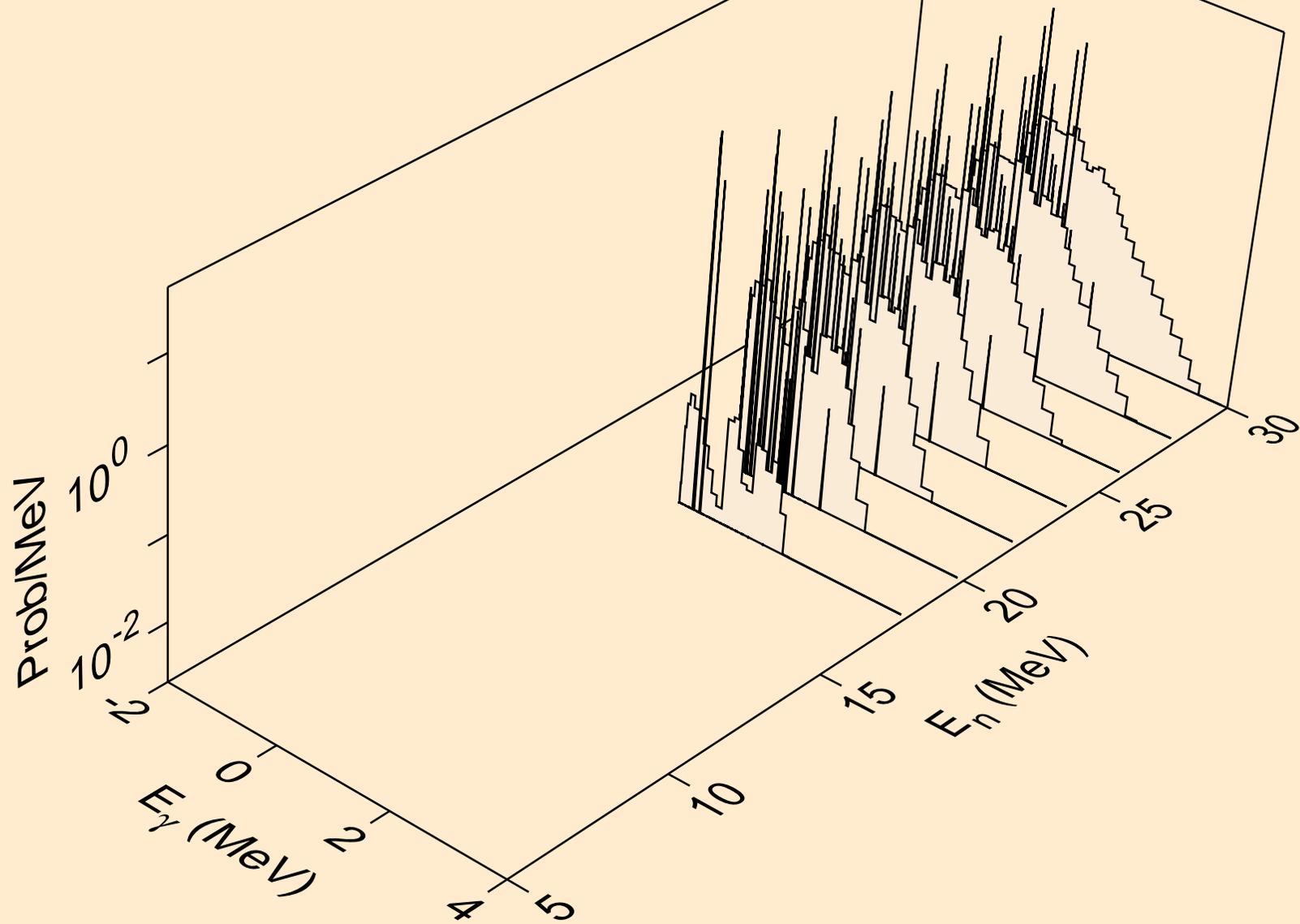
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Photon emission for (n,2p)



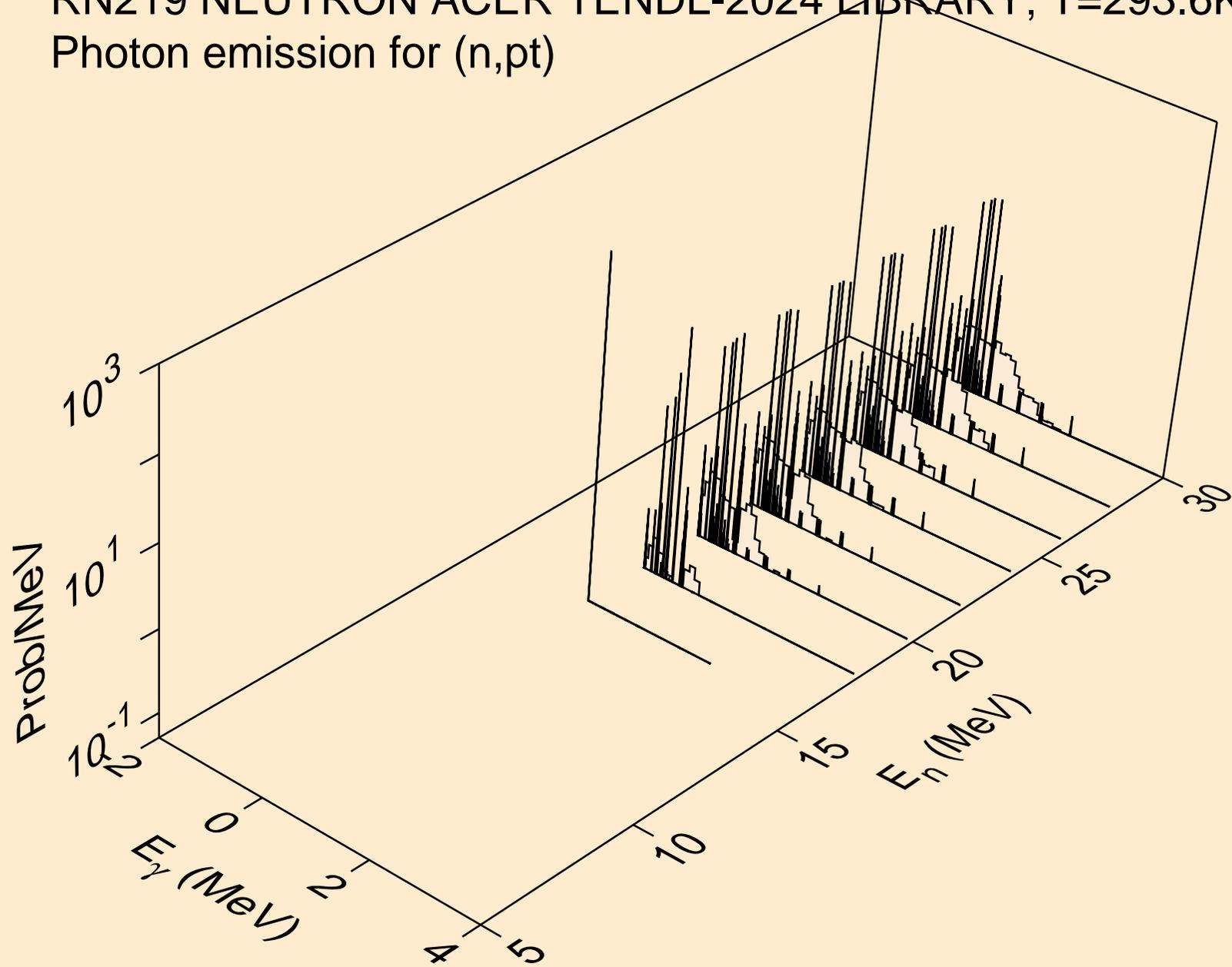
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Photon emission for (n,p $\alpha$ )



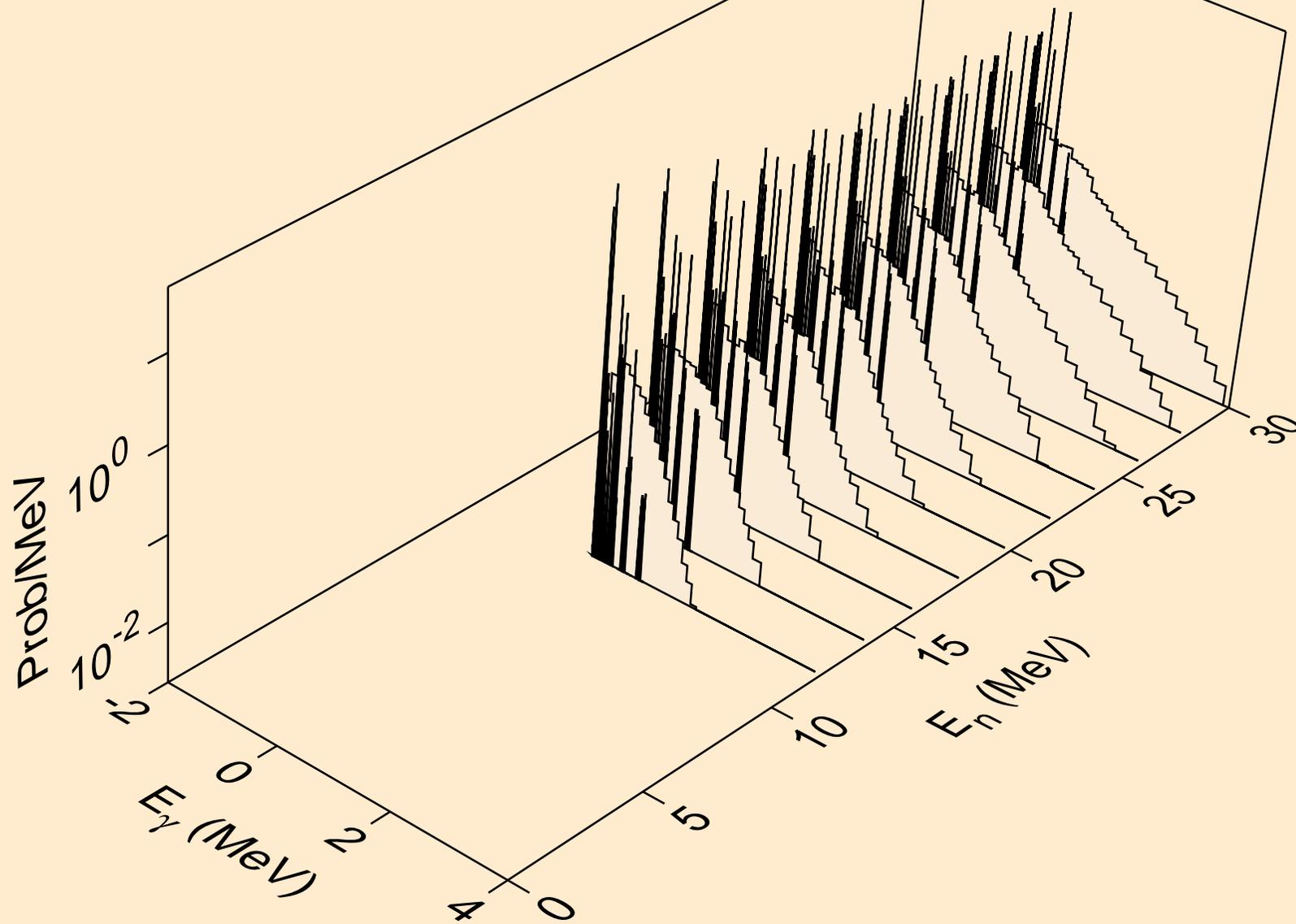
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Photon emission for (n,pd)



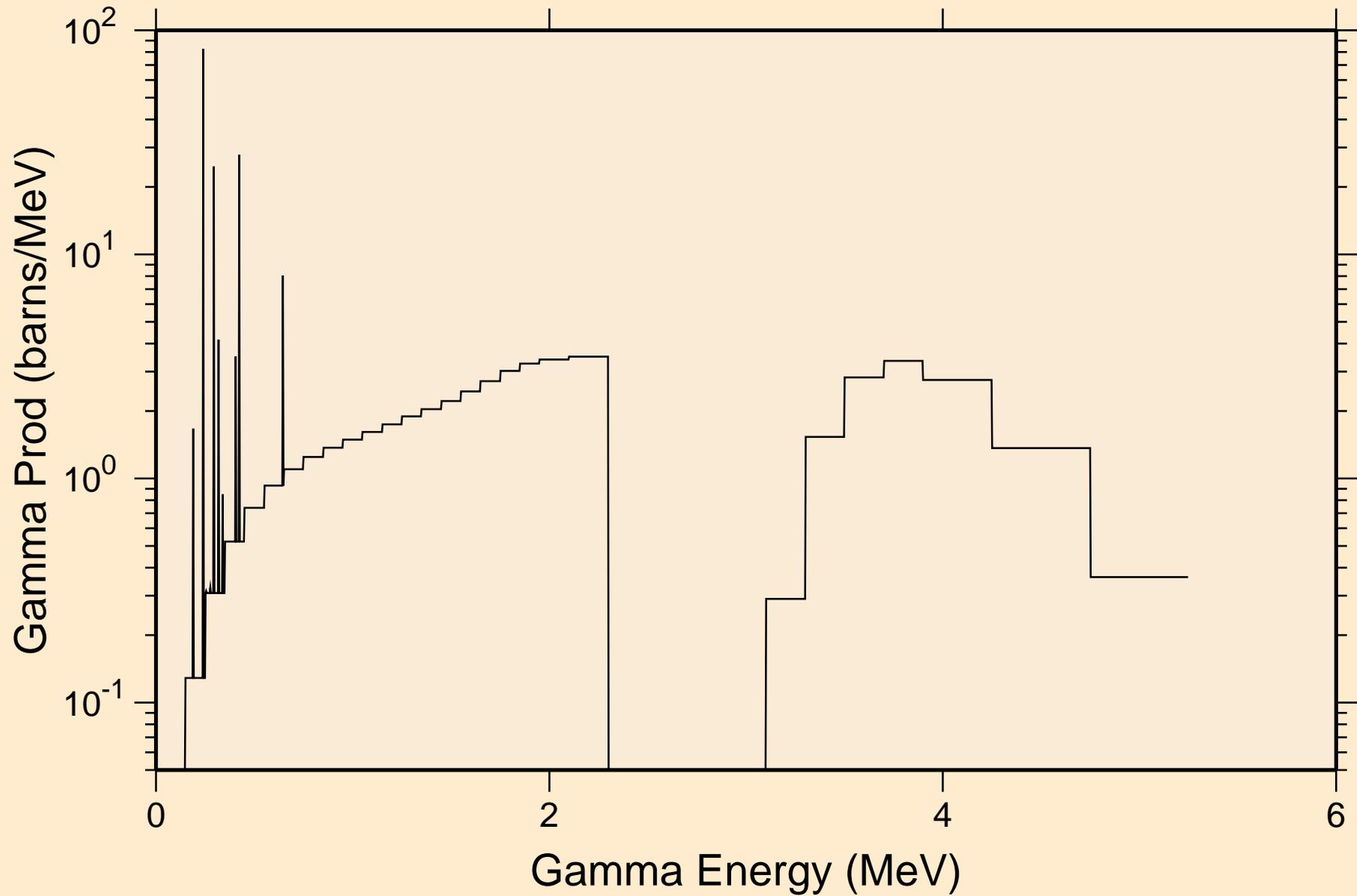
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Photon emission for (n,pt)



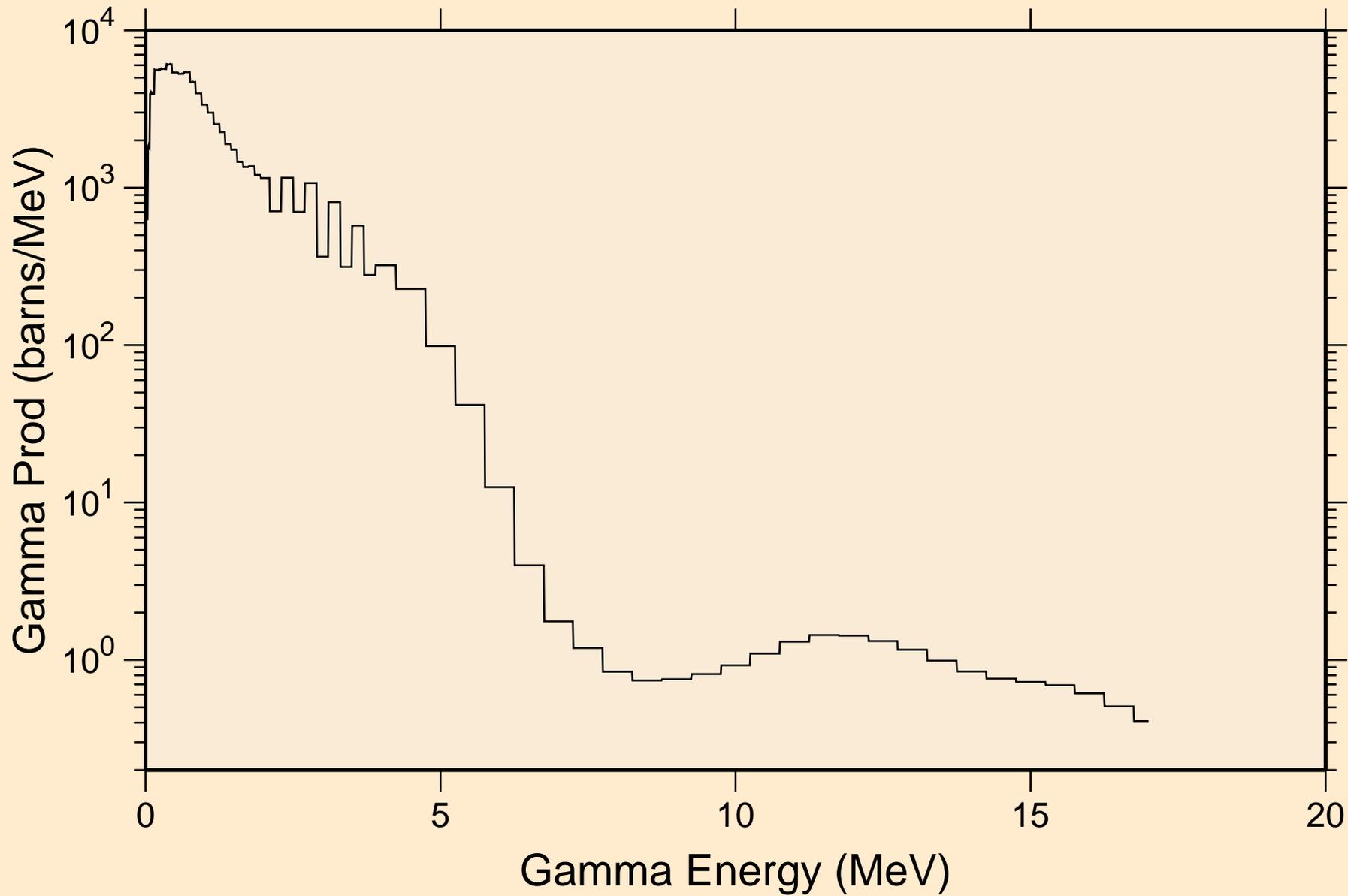
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Photon emission for (n,d $\alpha$ )



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
thermal capture photon spectrum

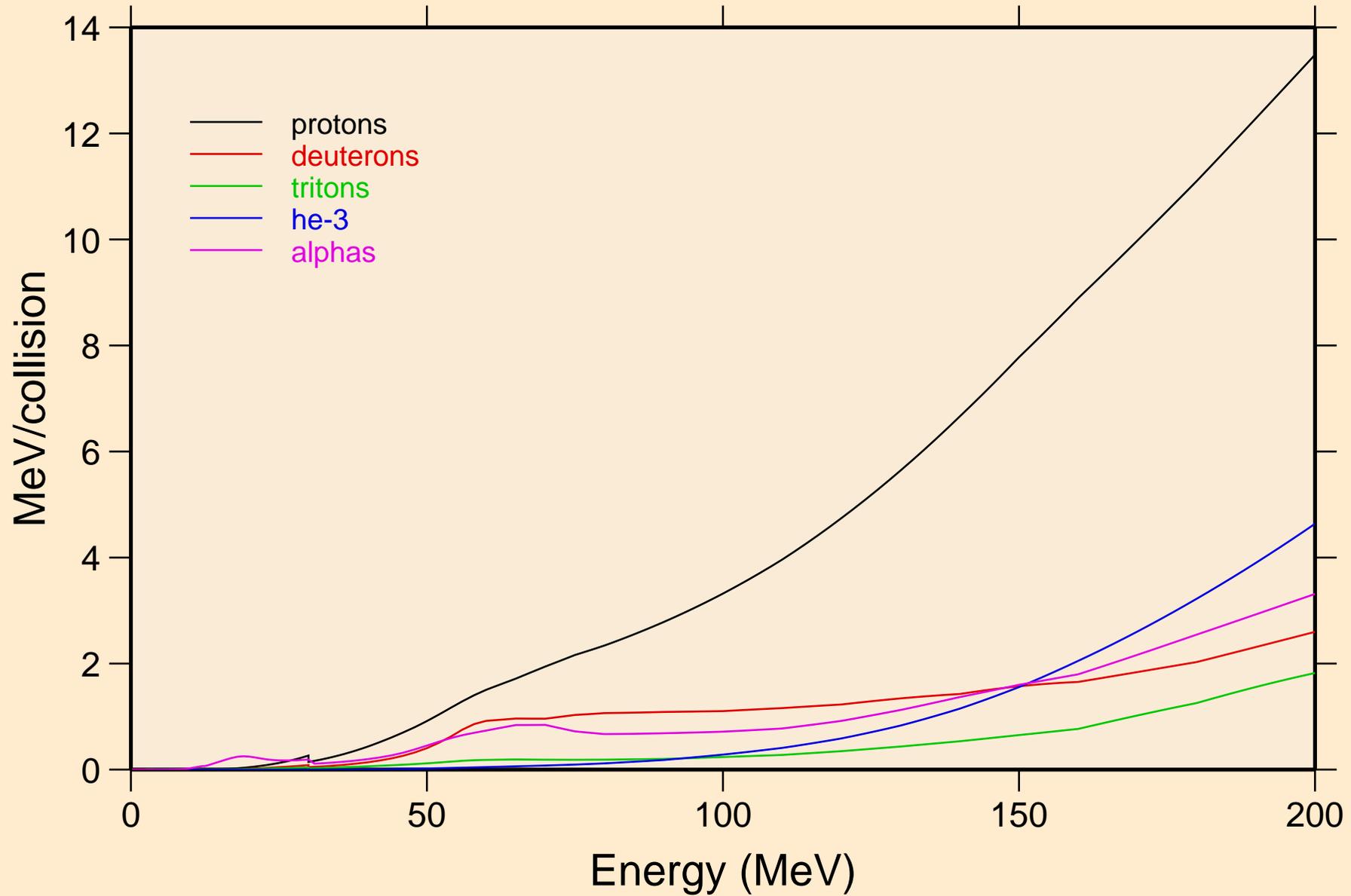


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14 MeV photon spectrum

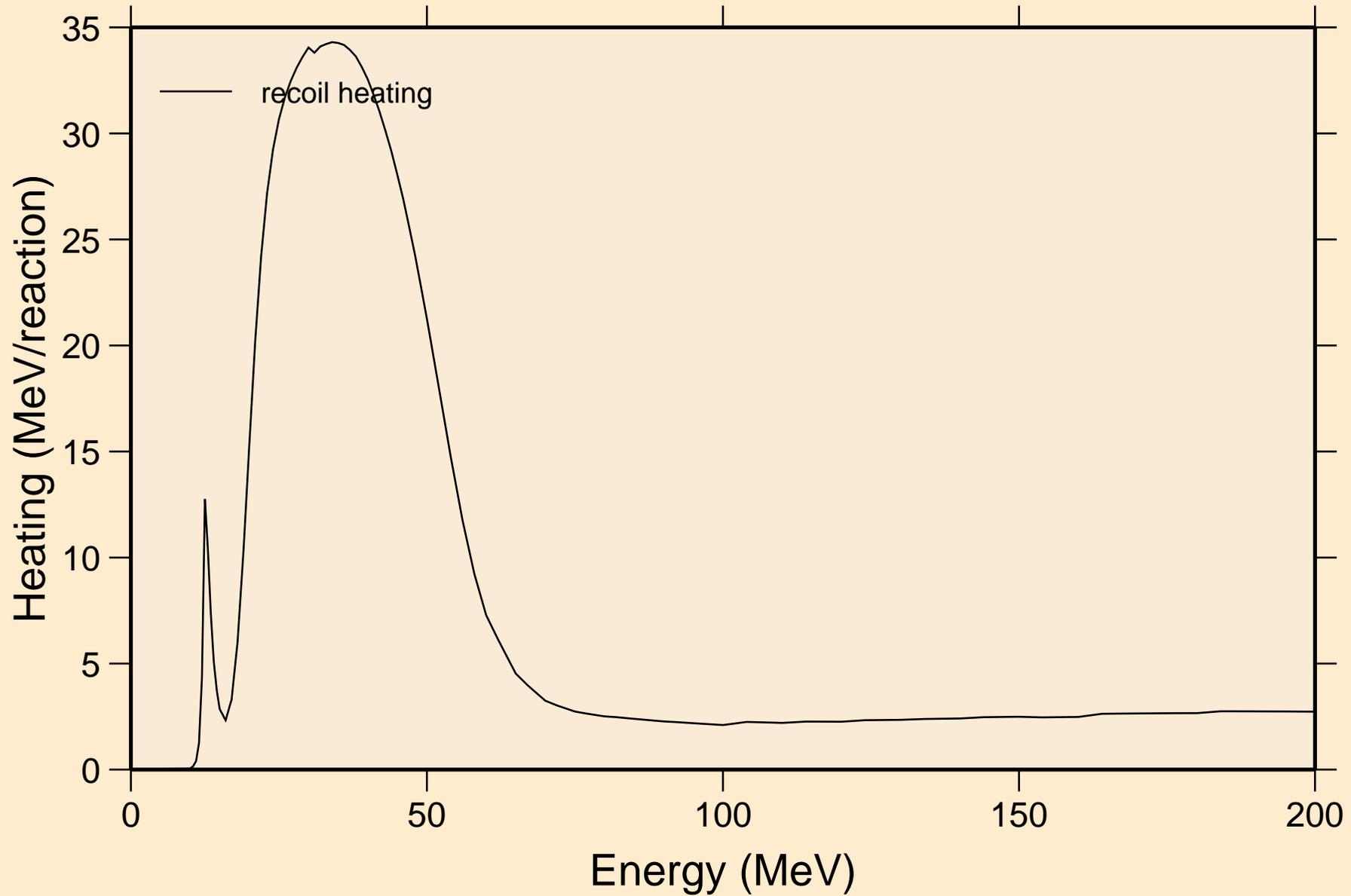


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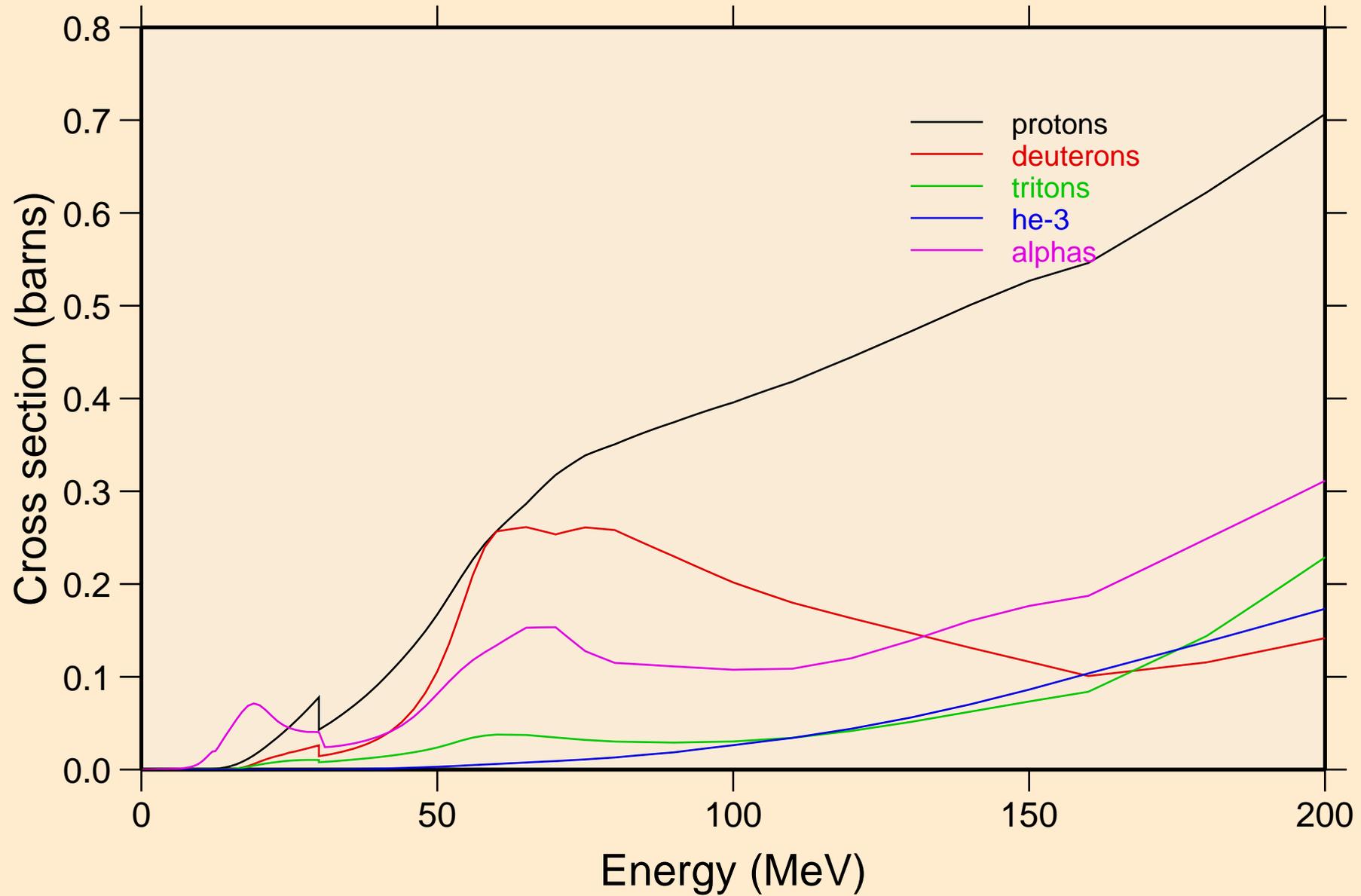
## Particle heating contributions



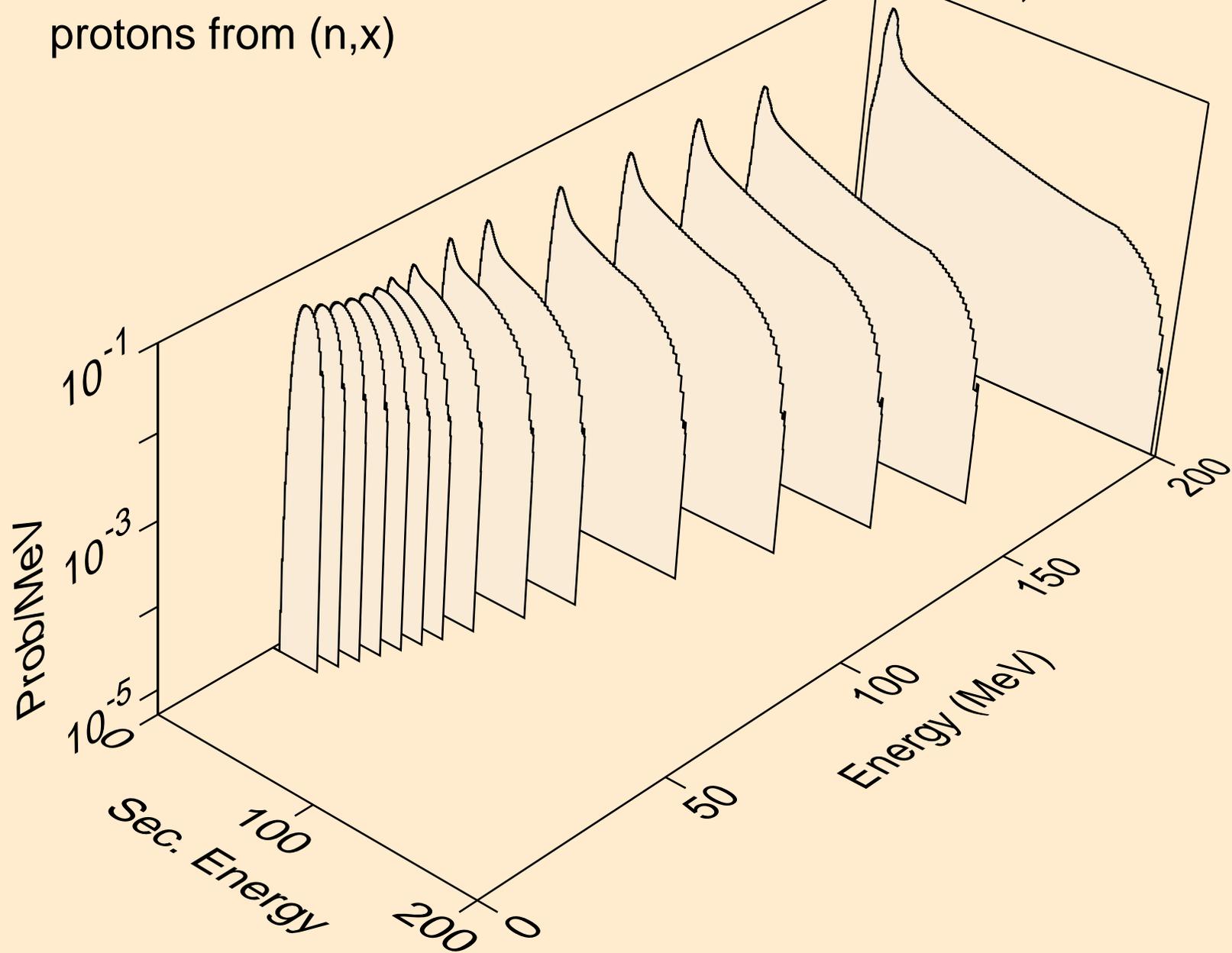
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Recoil Heating



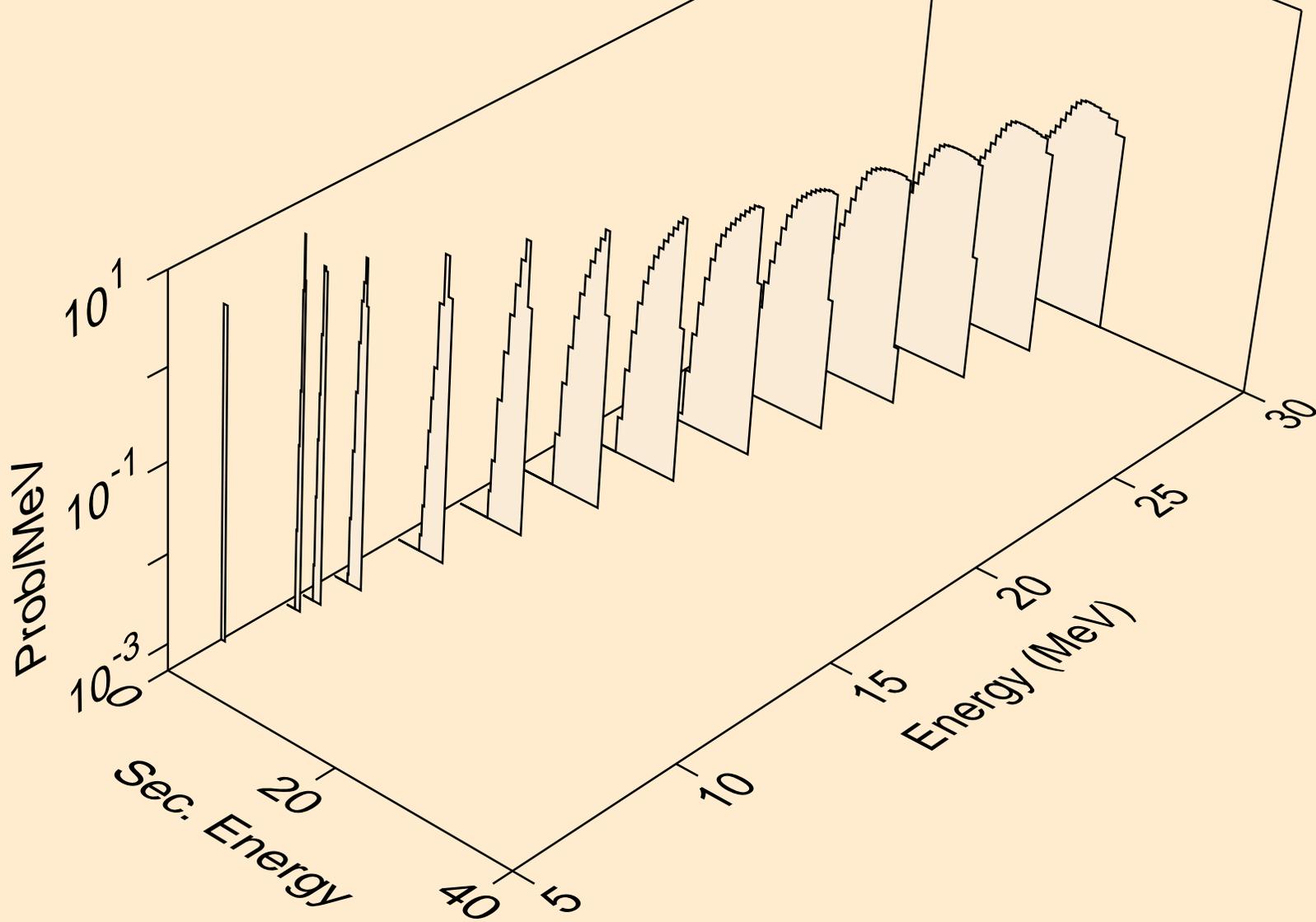
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Particle production cross sections



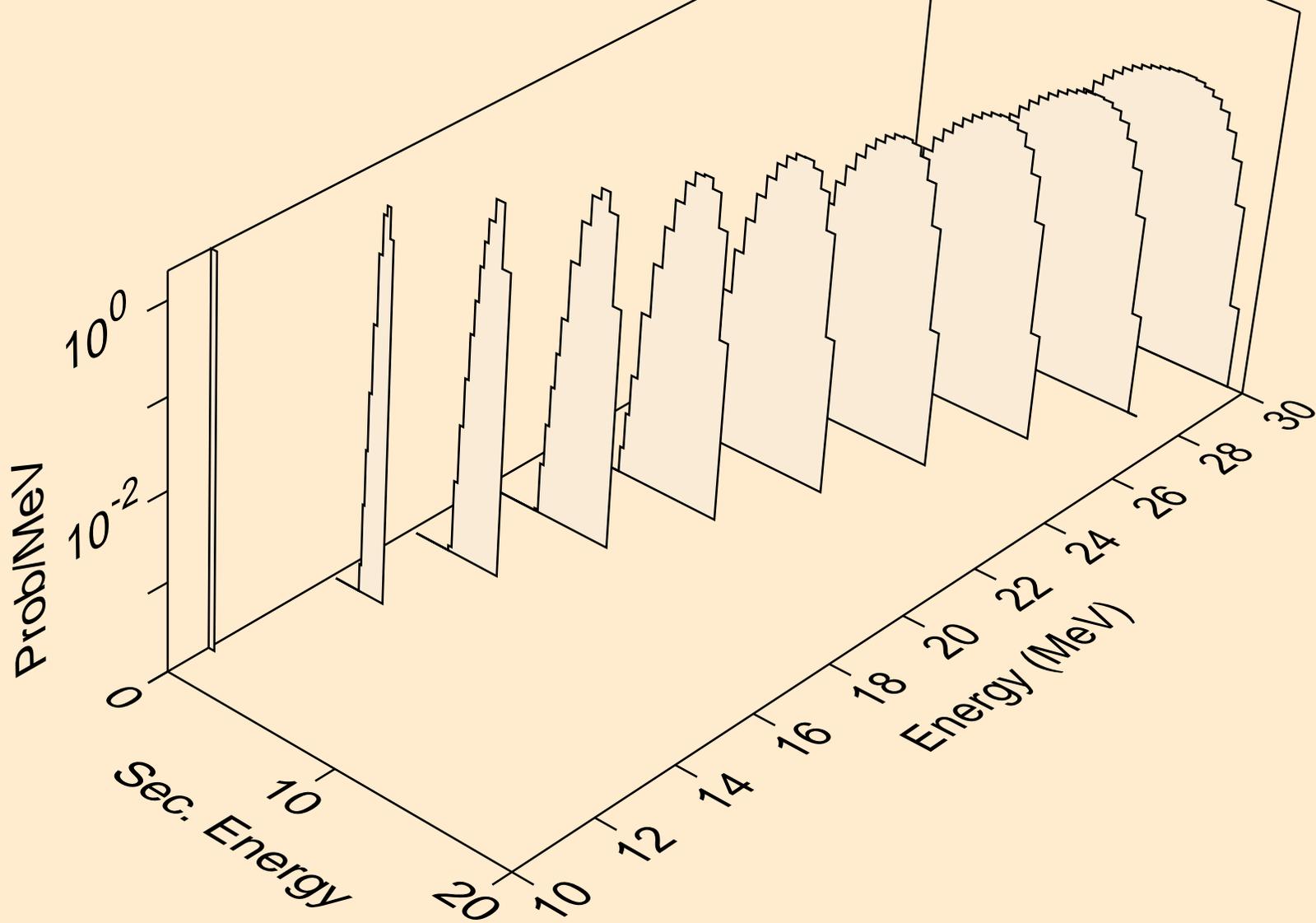
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protons from (n,x)



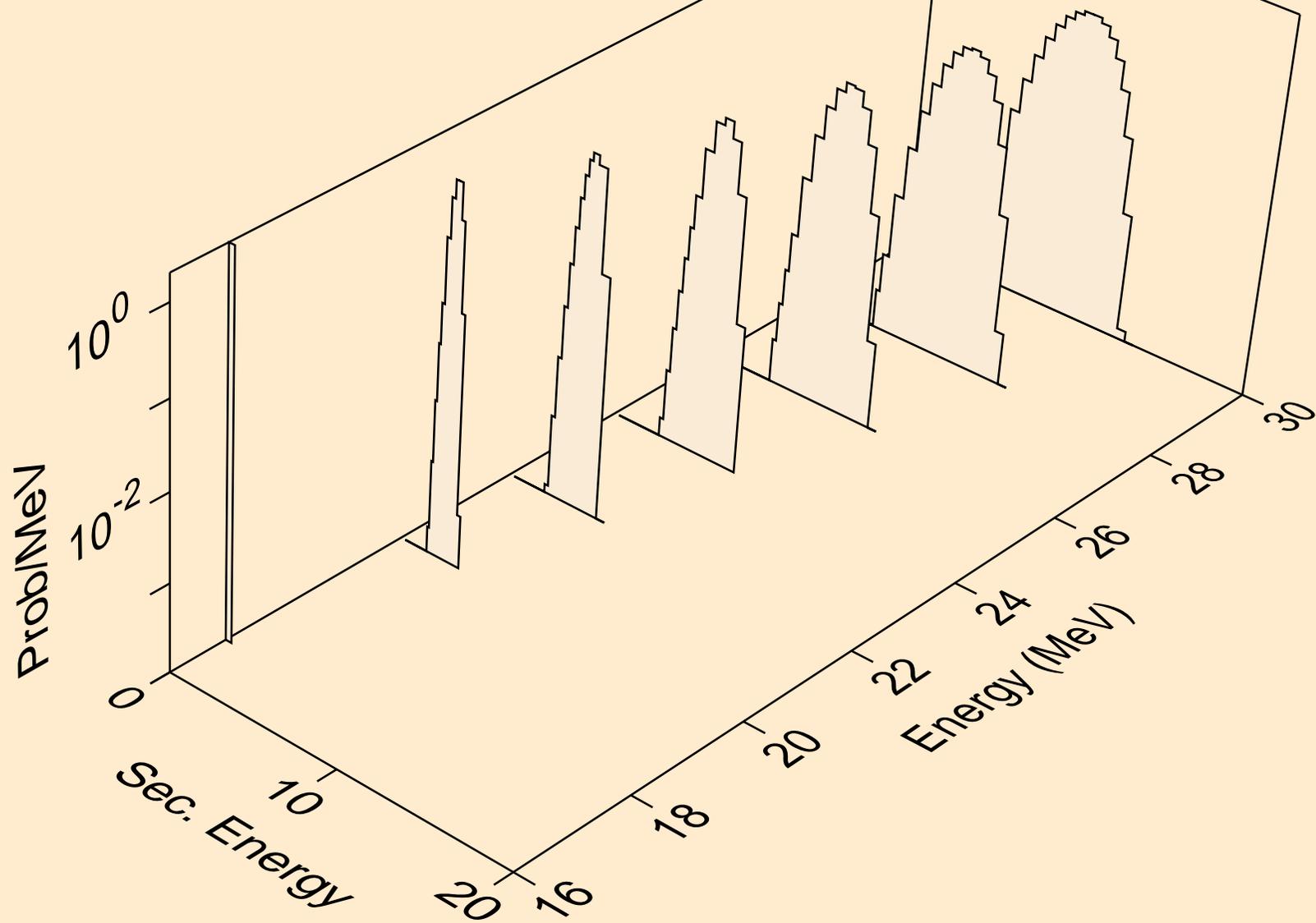
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protons from (n,n\*)p



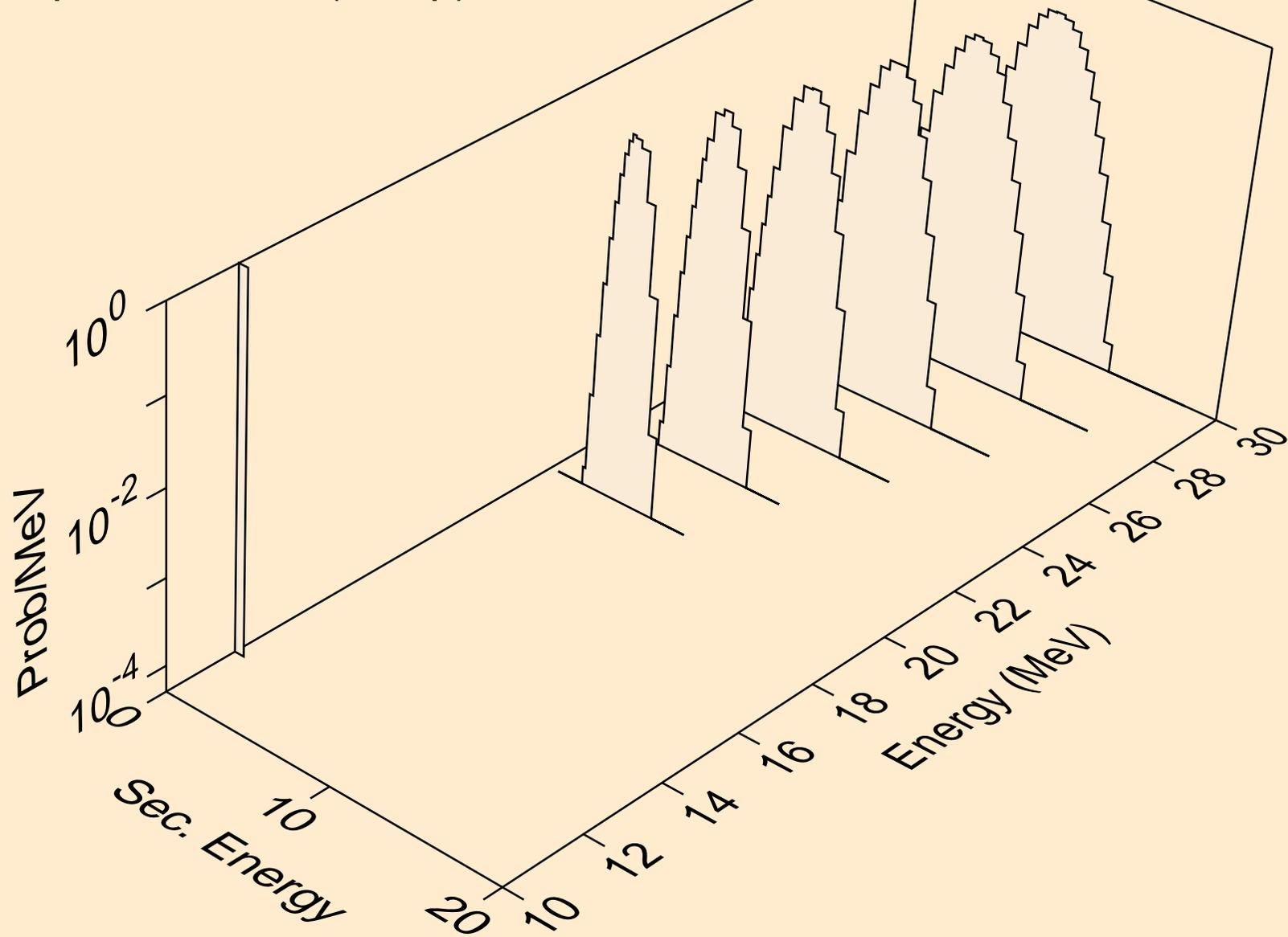
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protons from (n,2np)



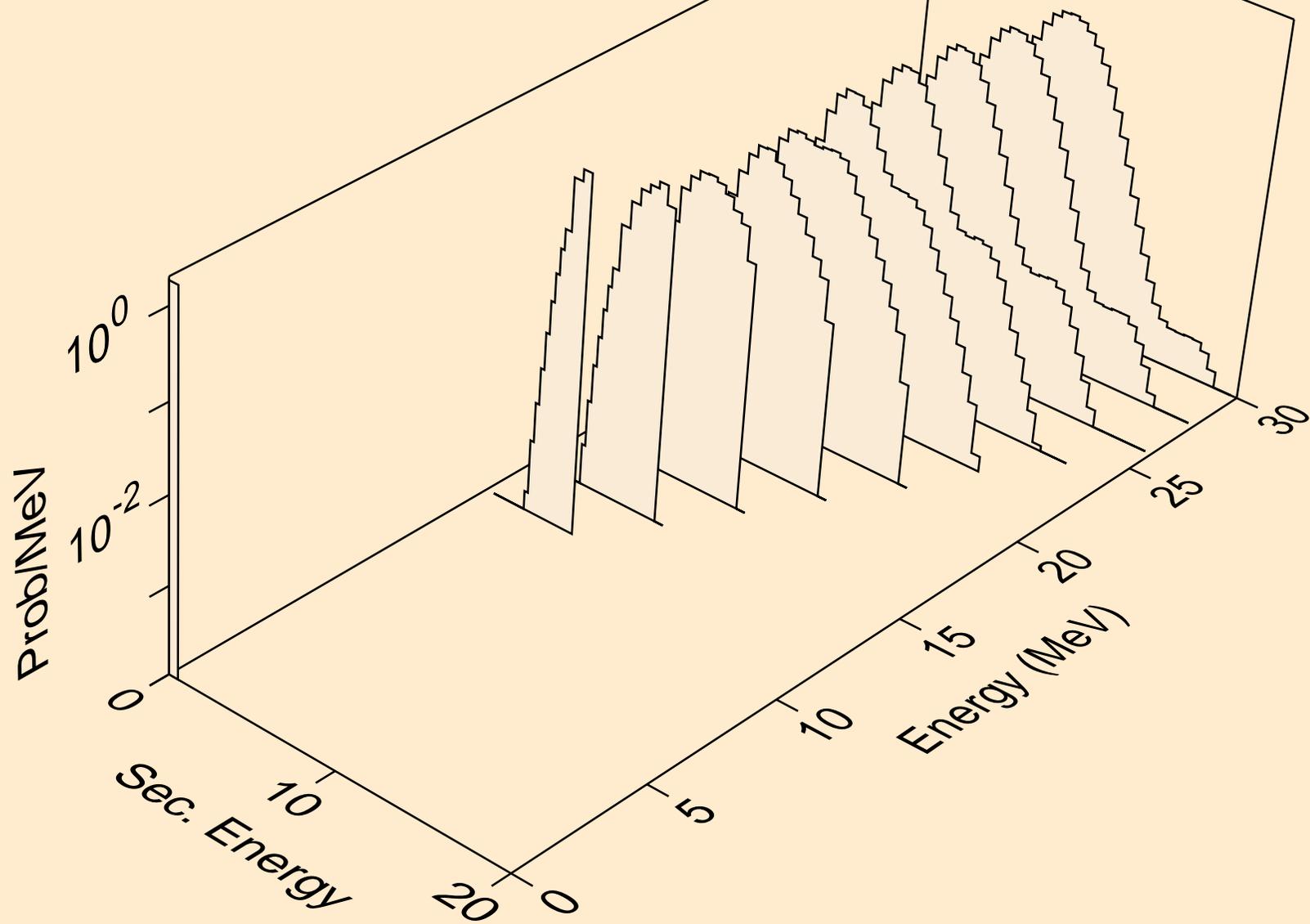
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protons from (n,3np)



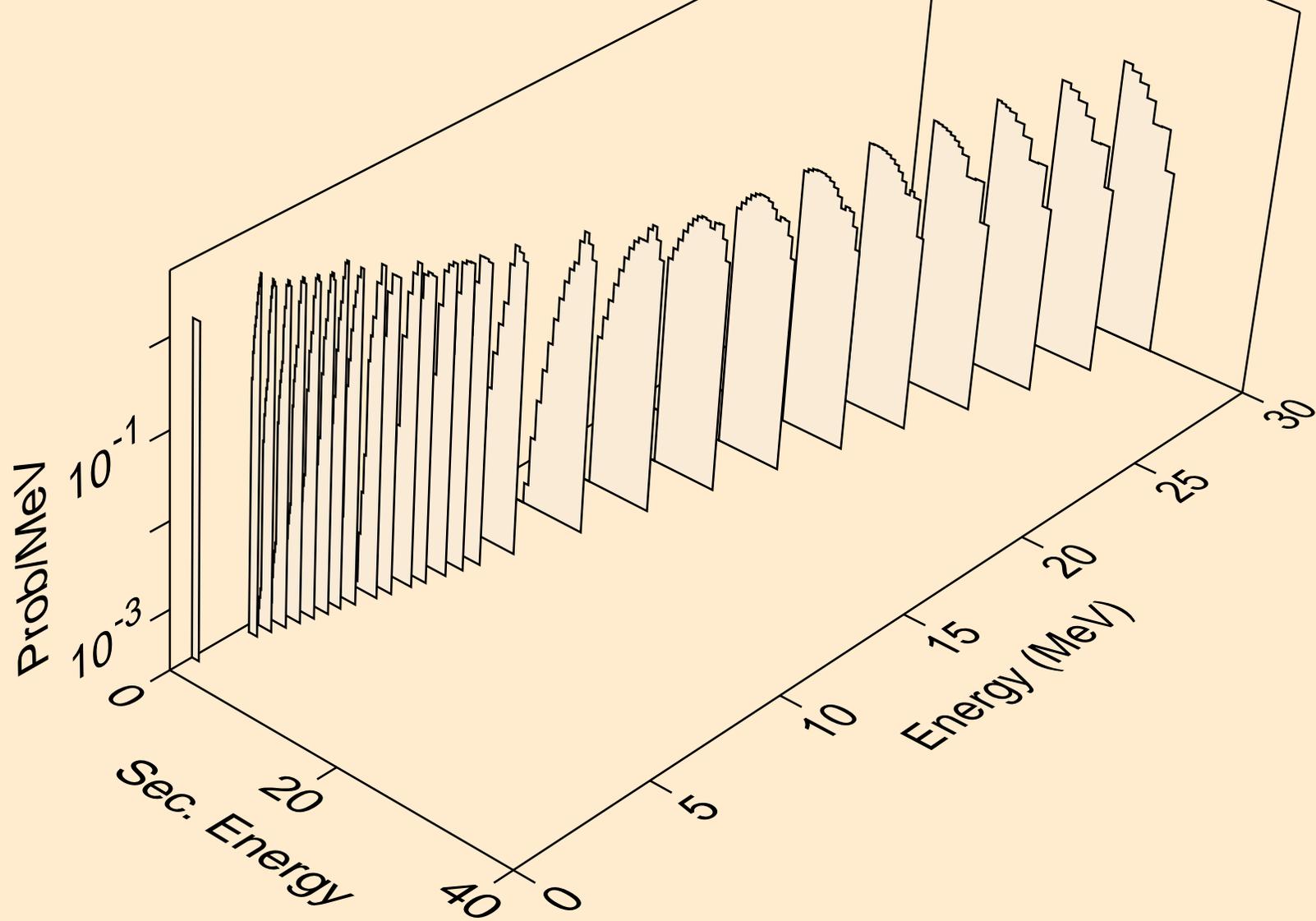
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protons from (n,n2p)



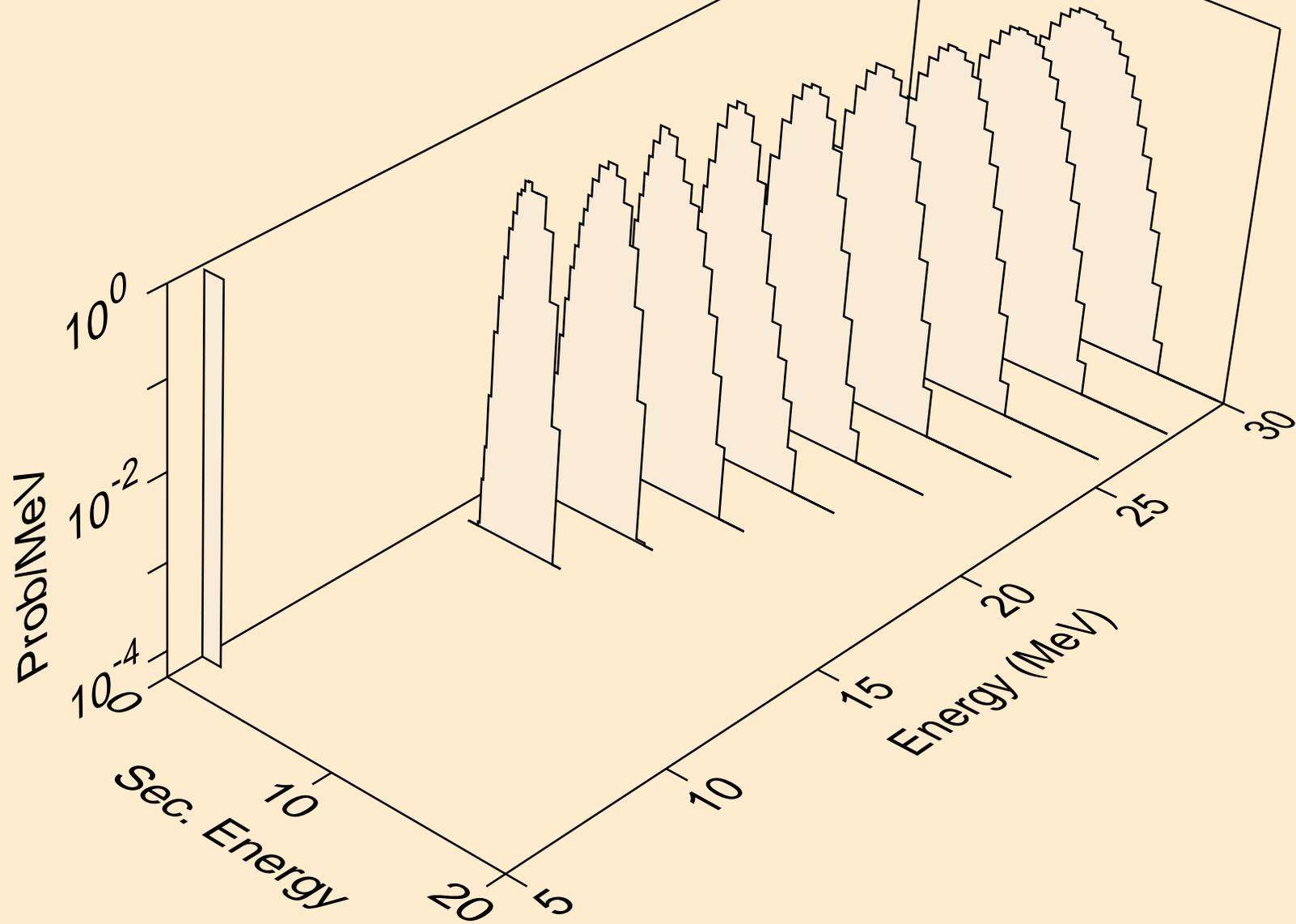
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protons from (n,npa)



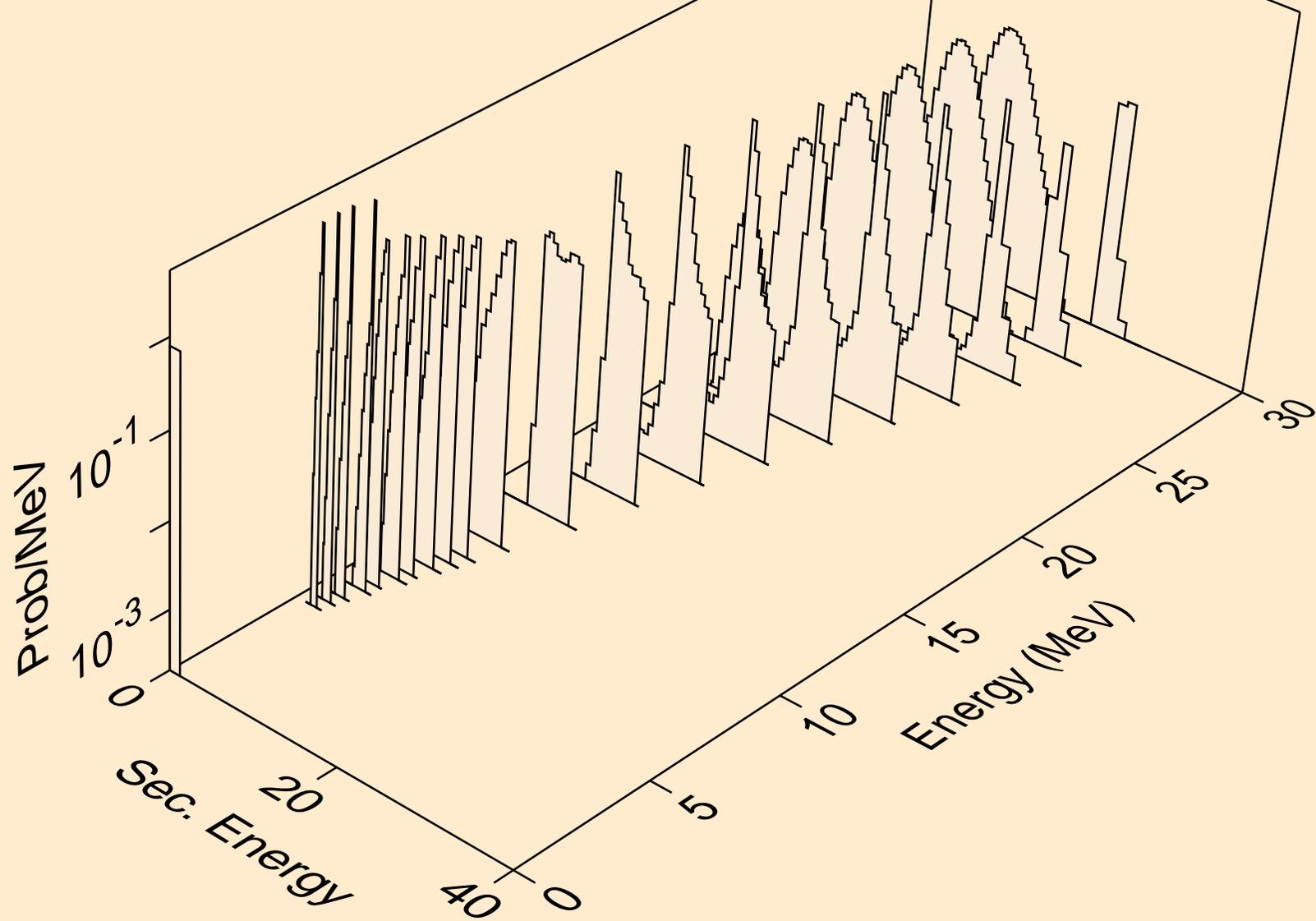
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protons from (n,p)



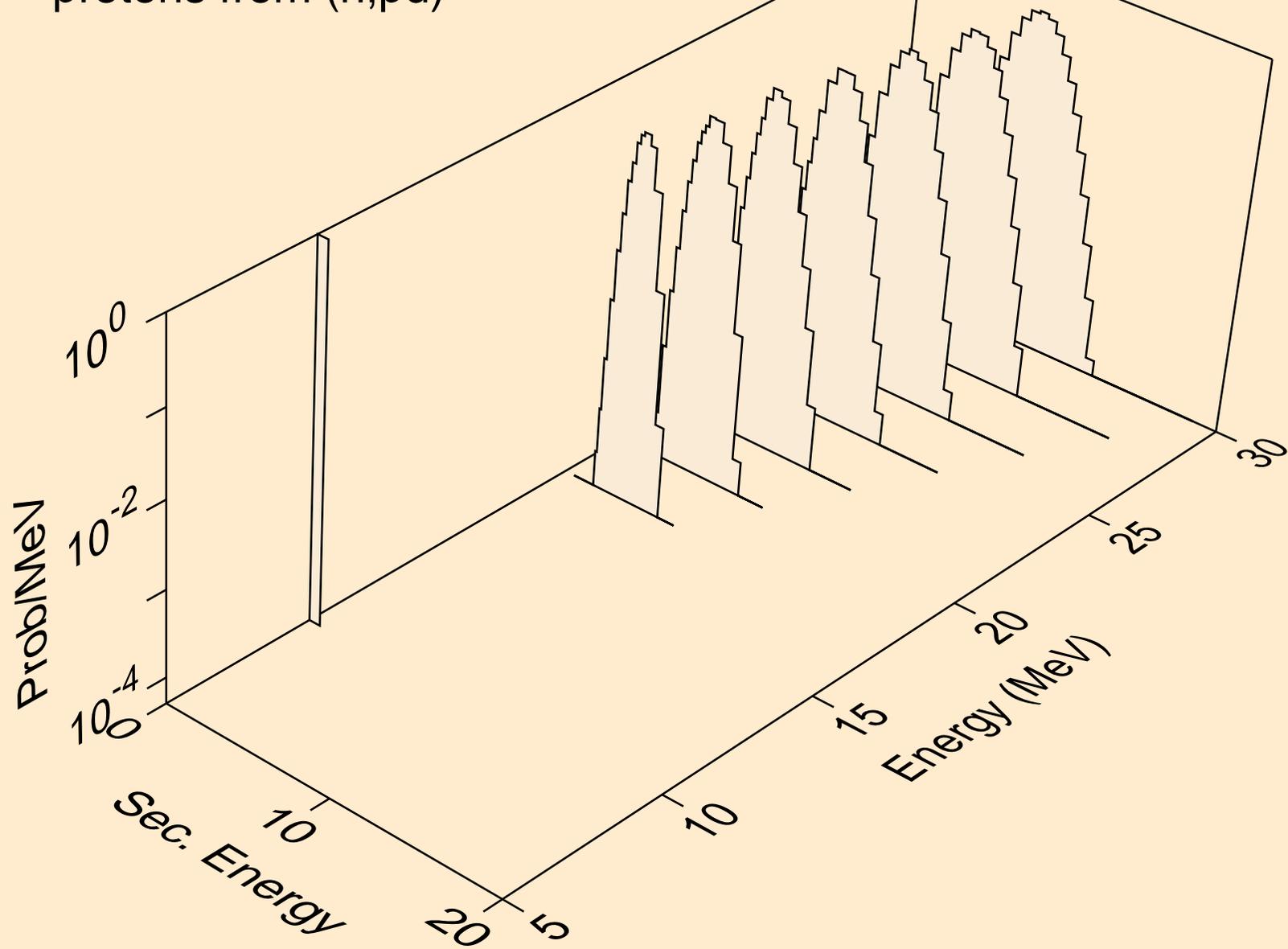
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protons from (n,2p)



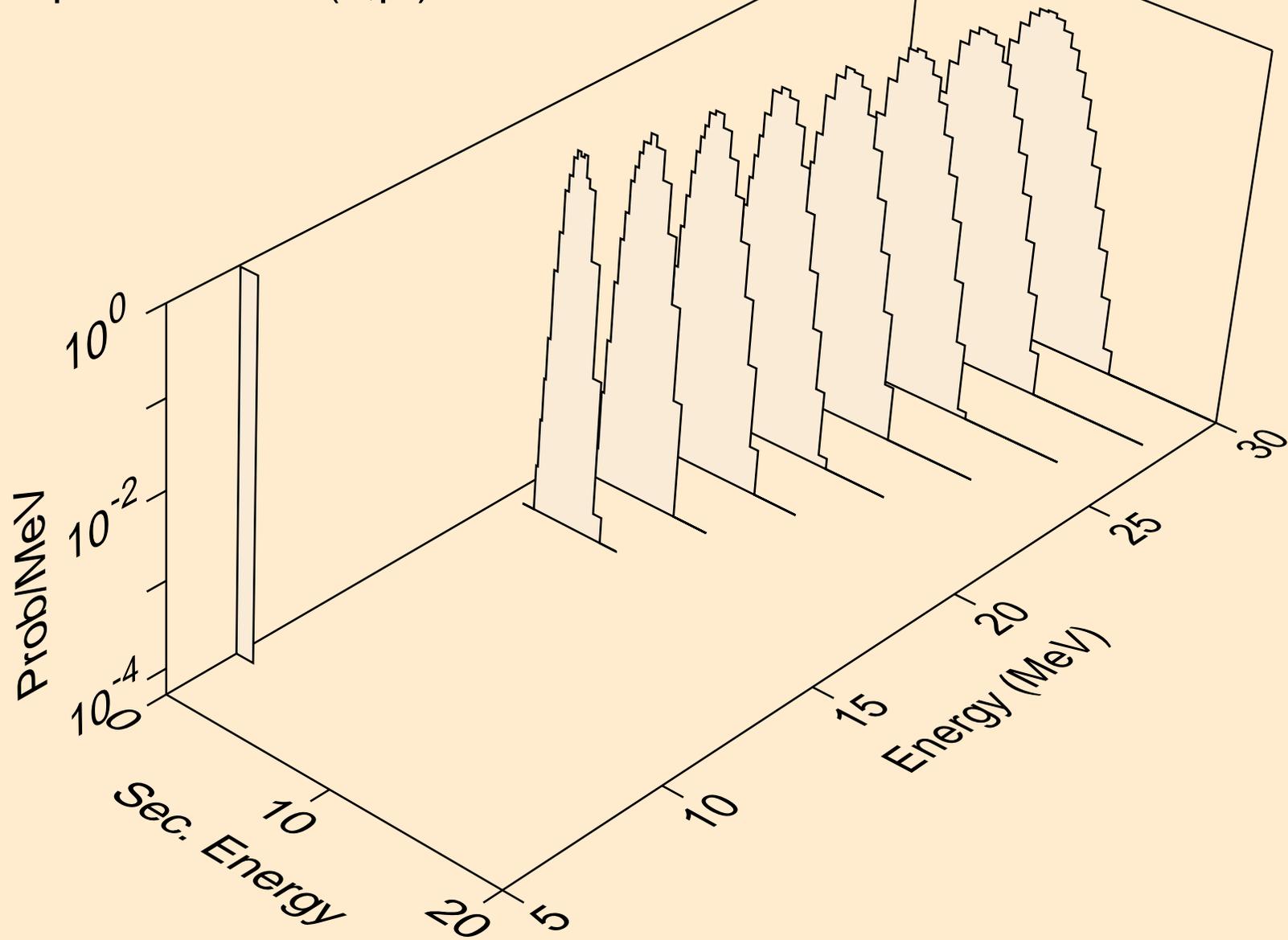
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protons from (n,p)



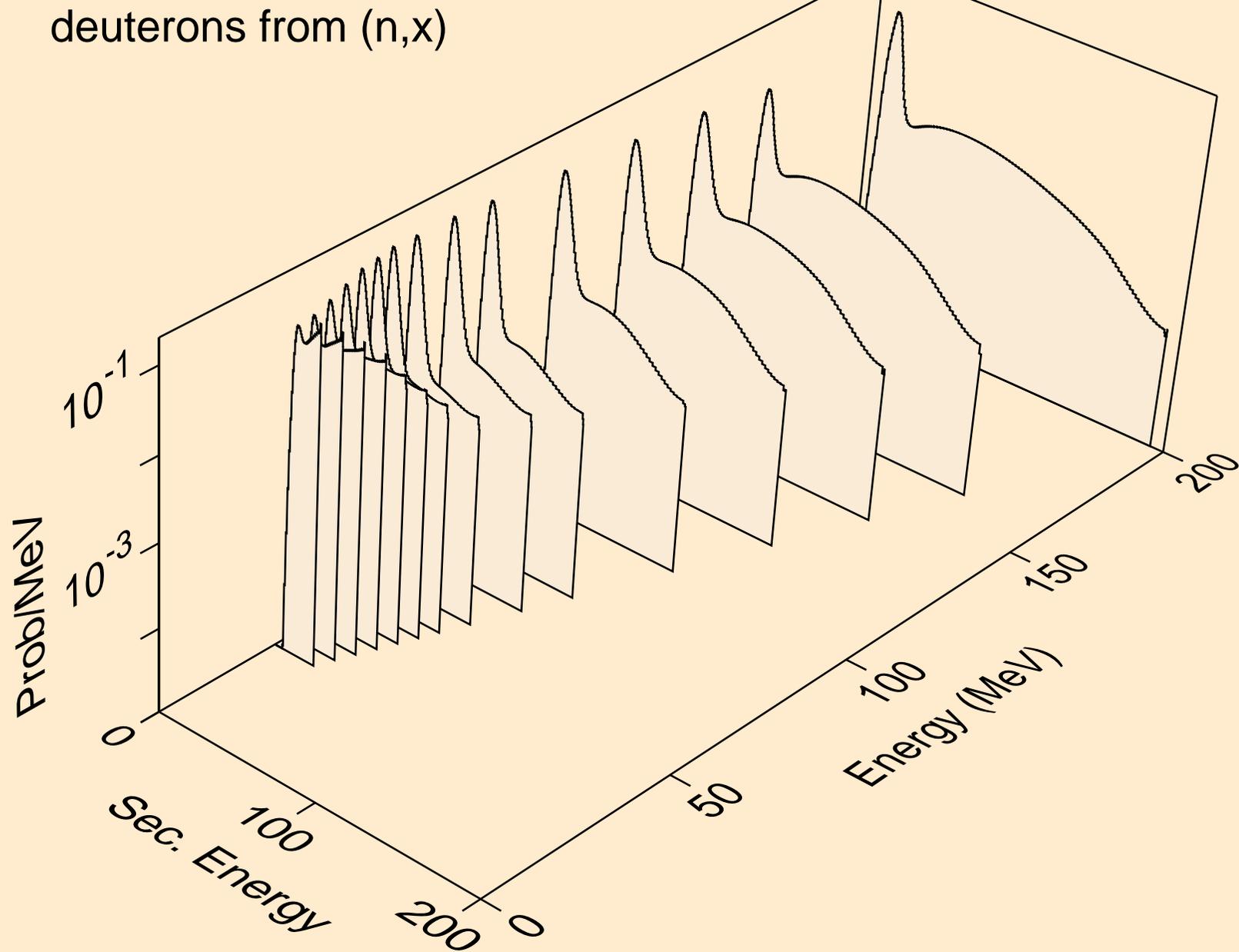
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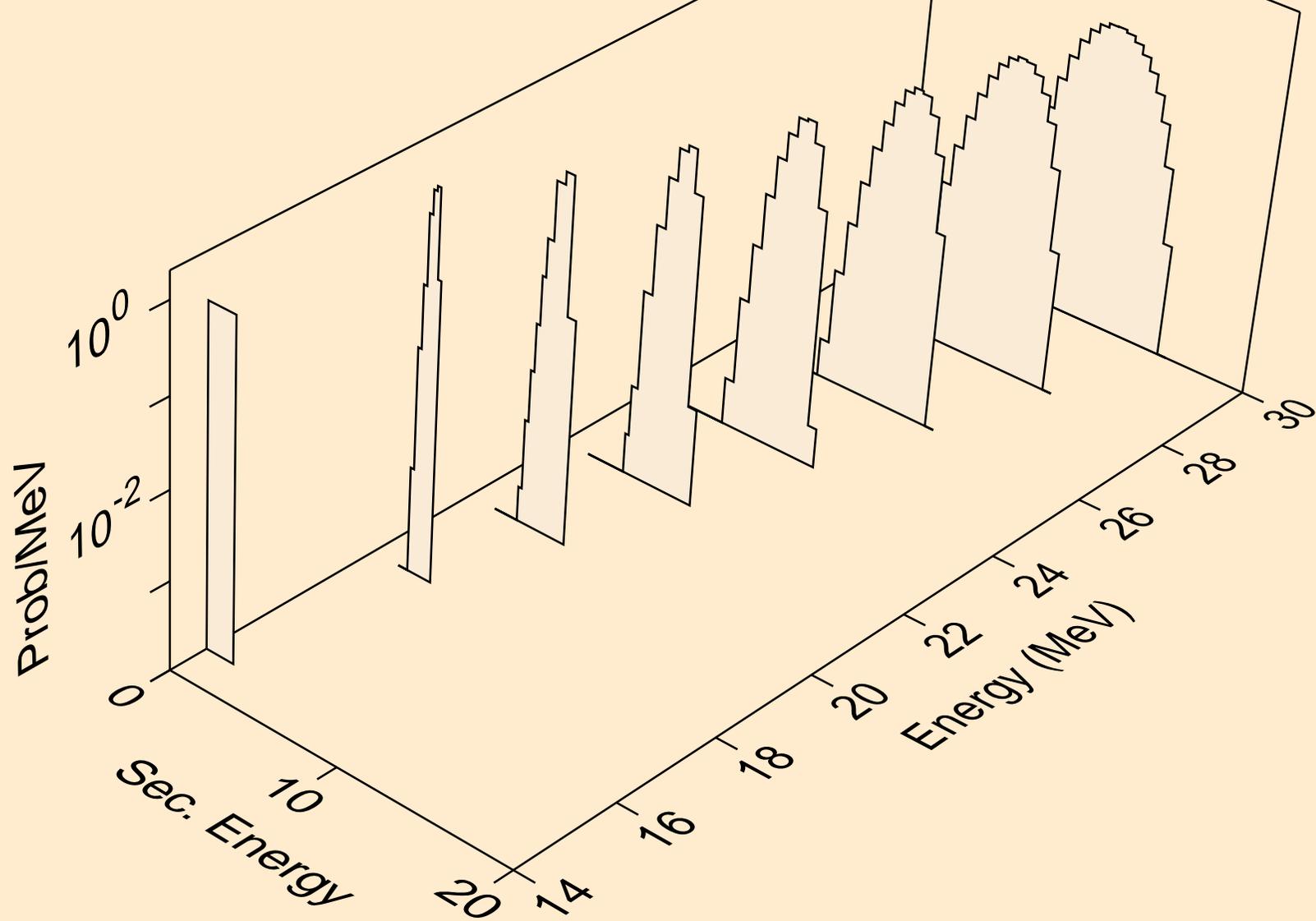
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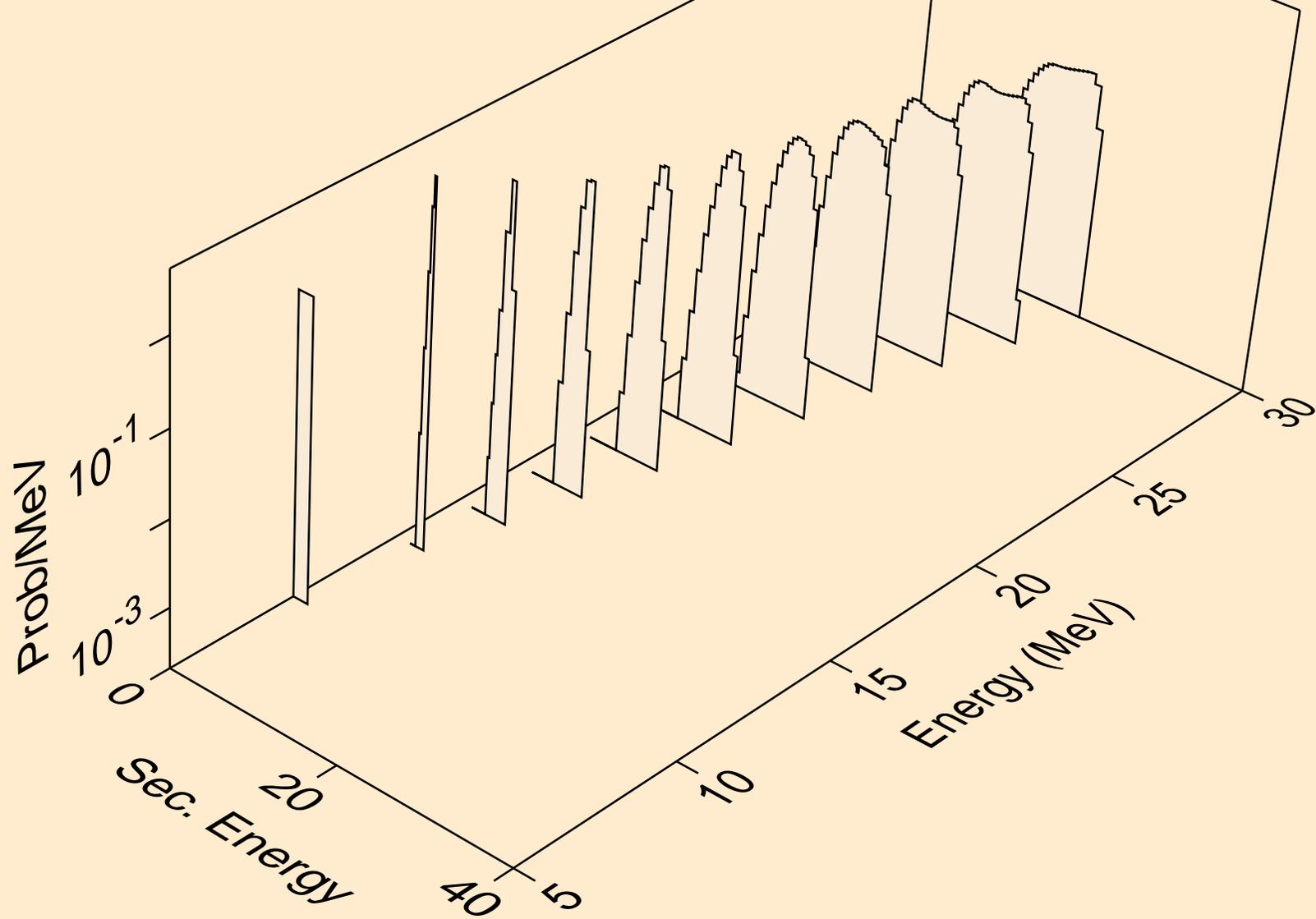
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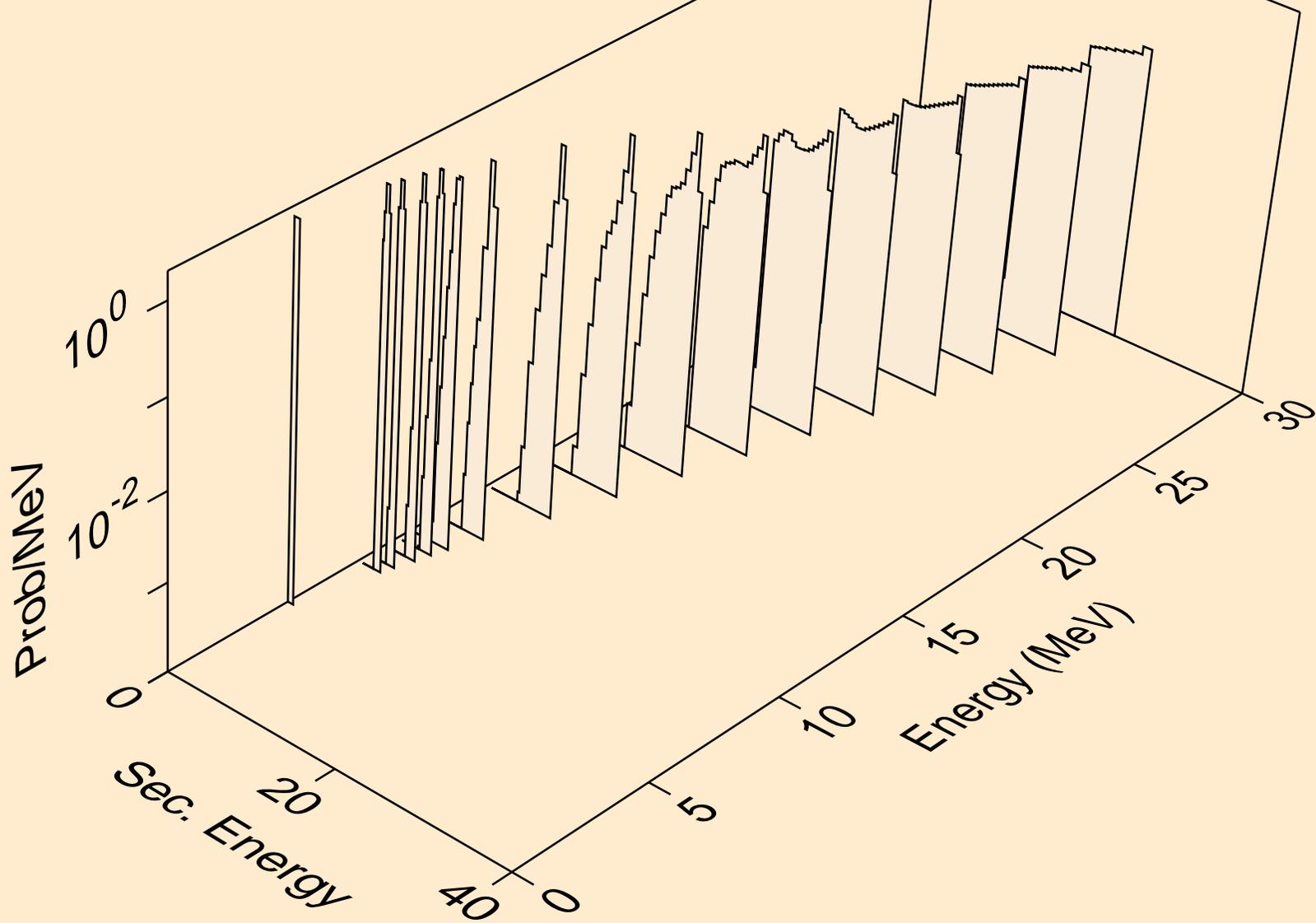
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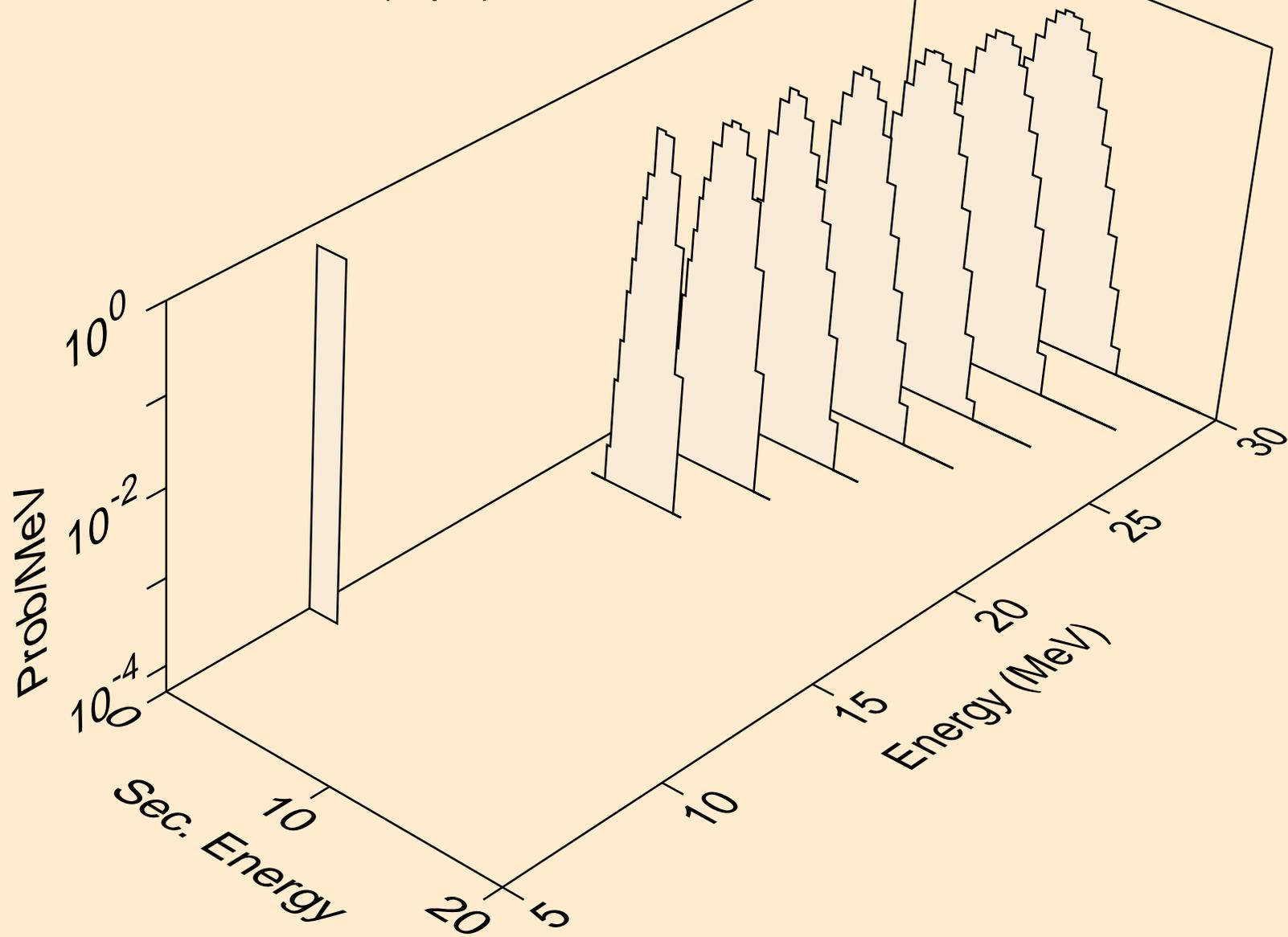
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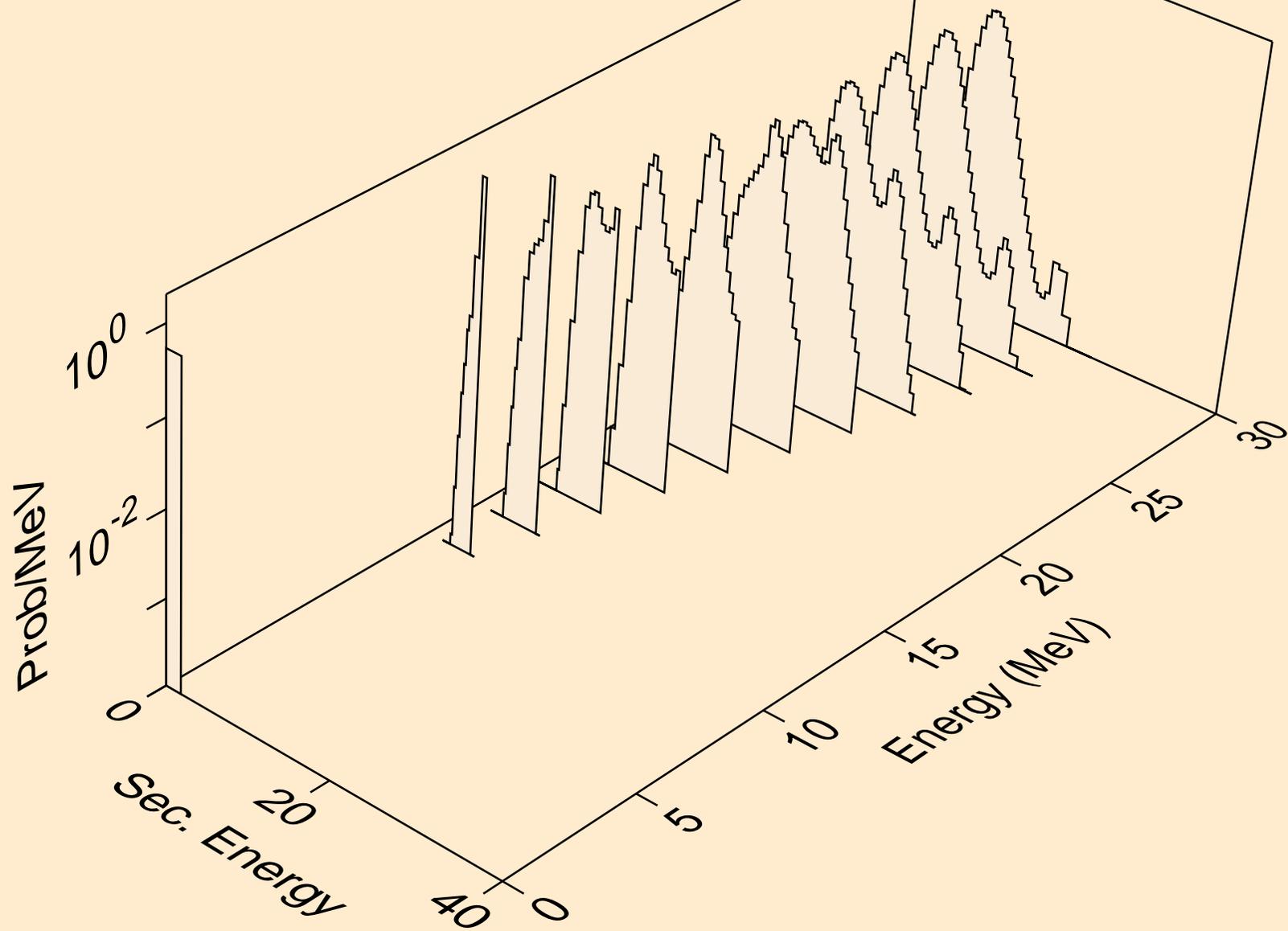
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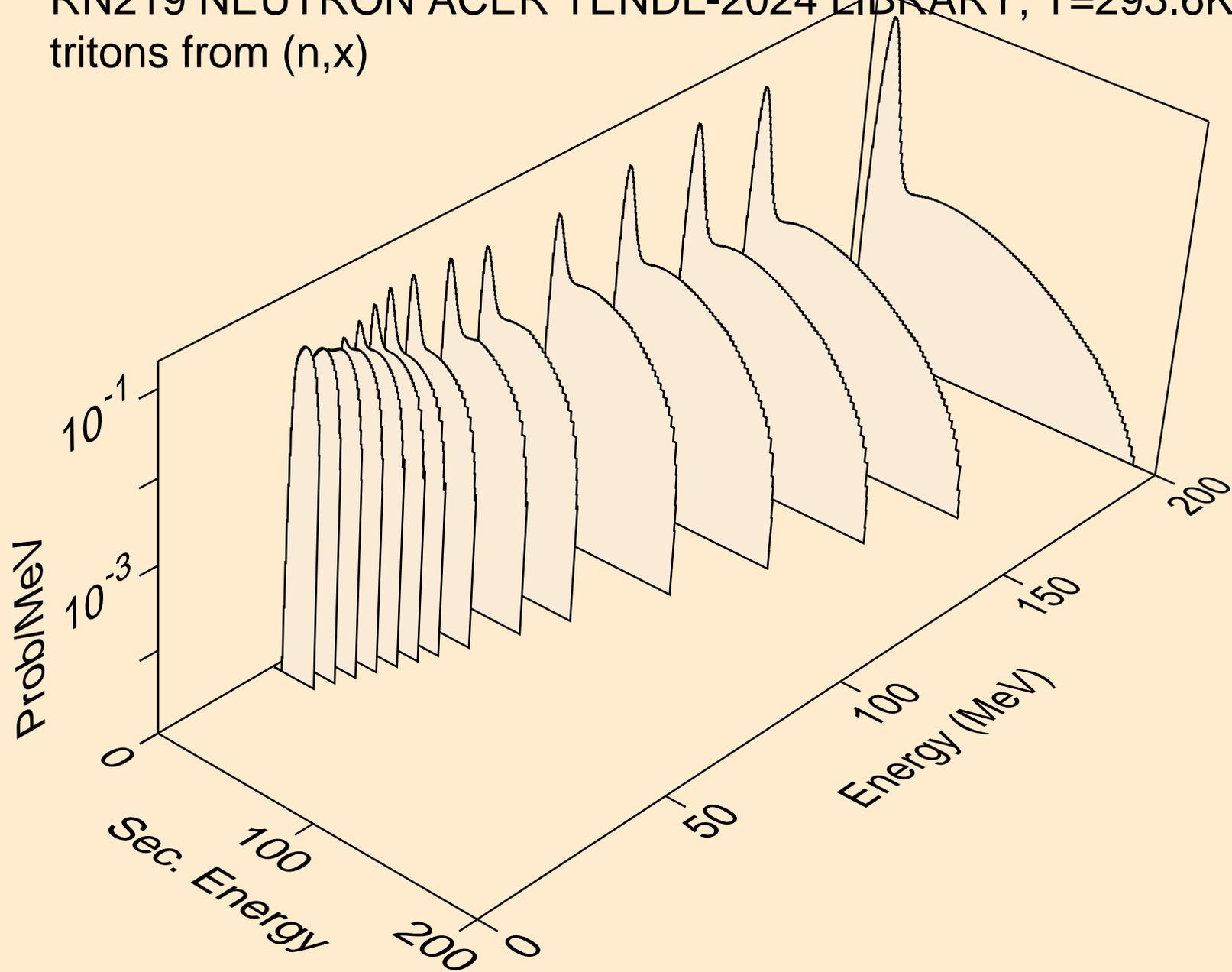
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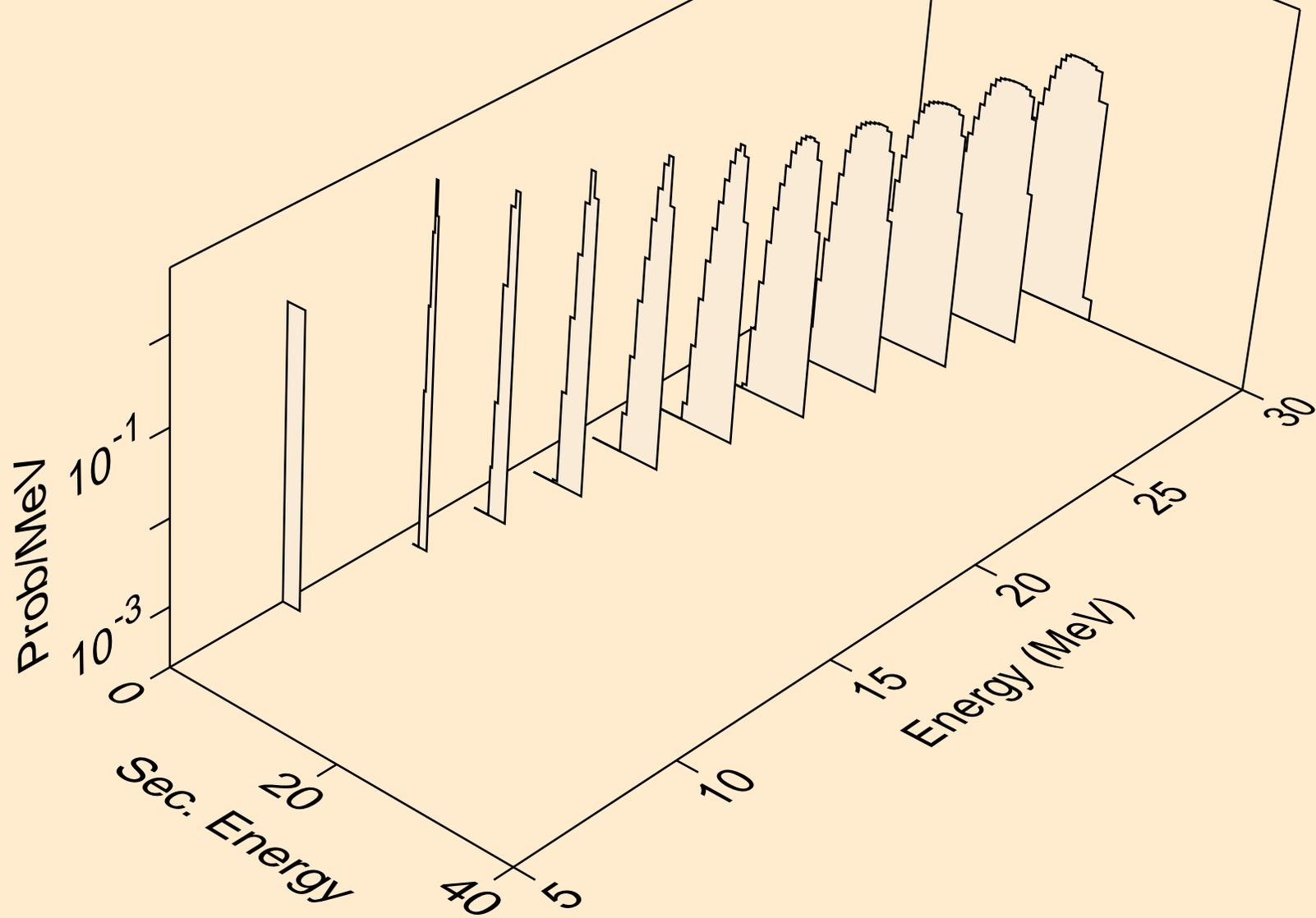
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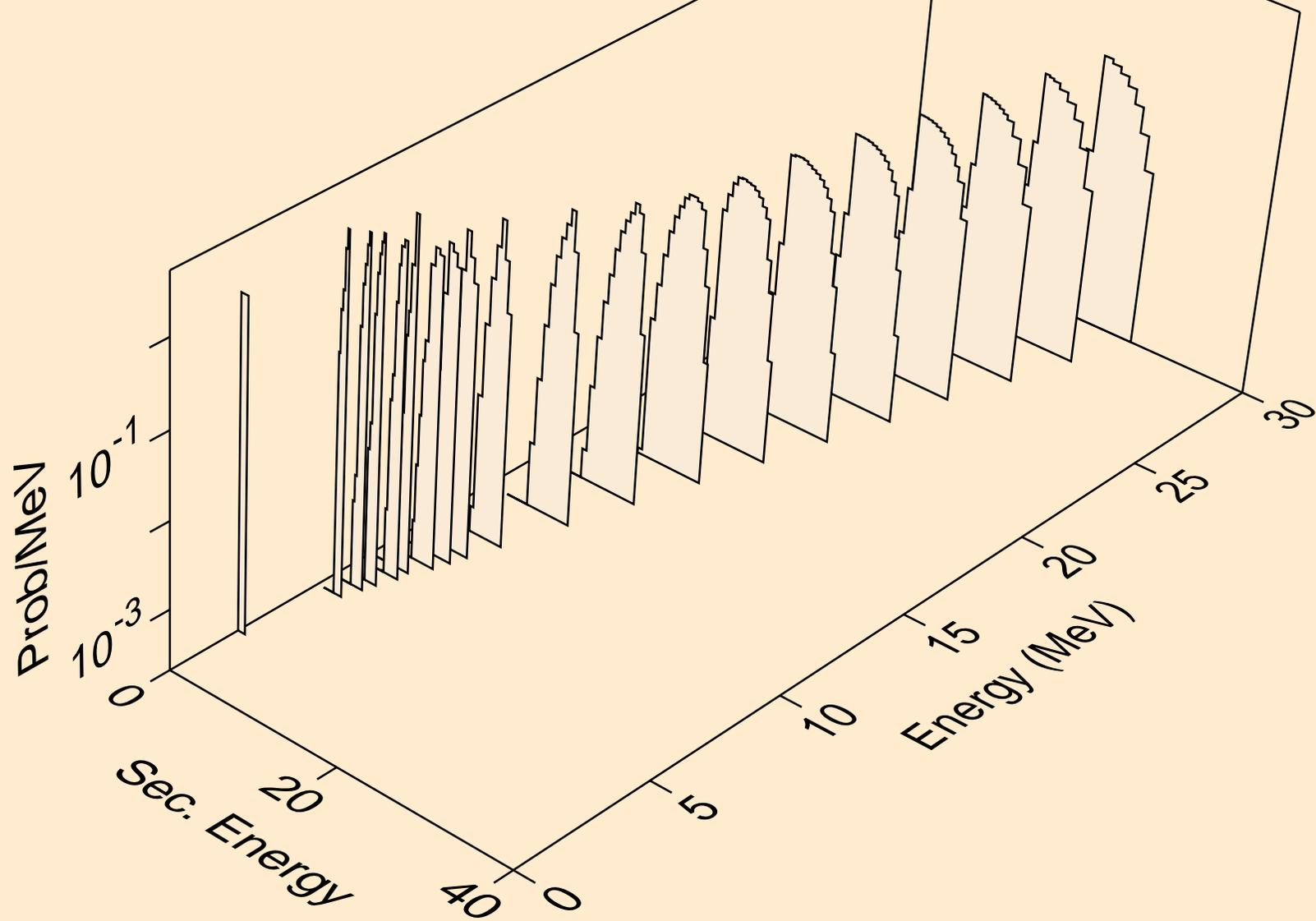
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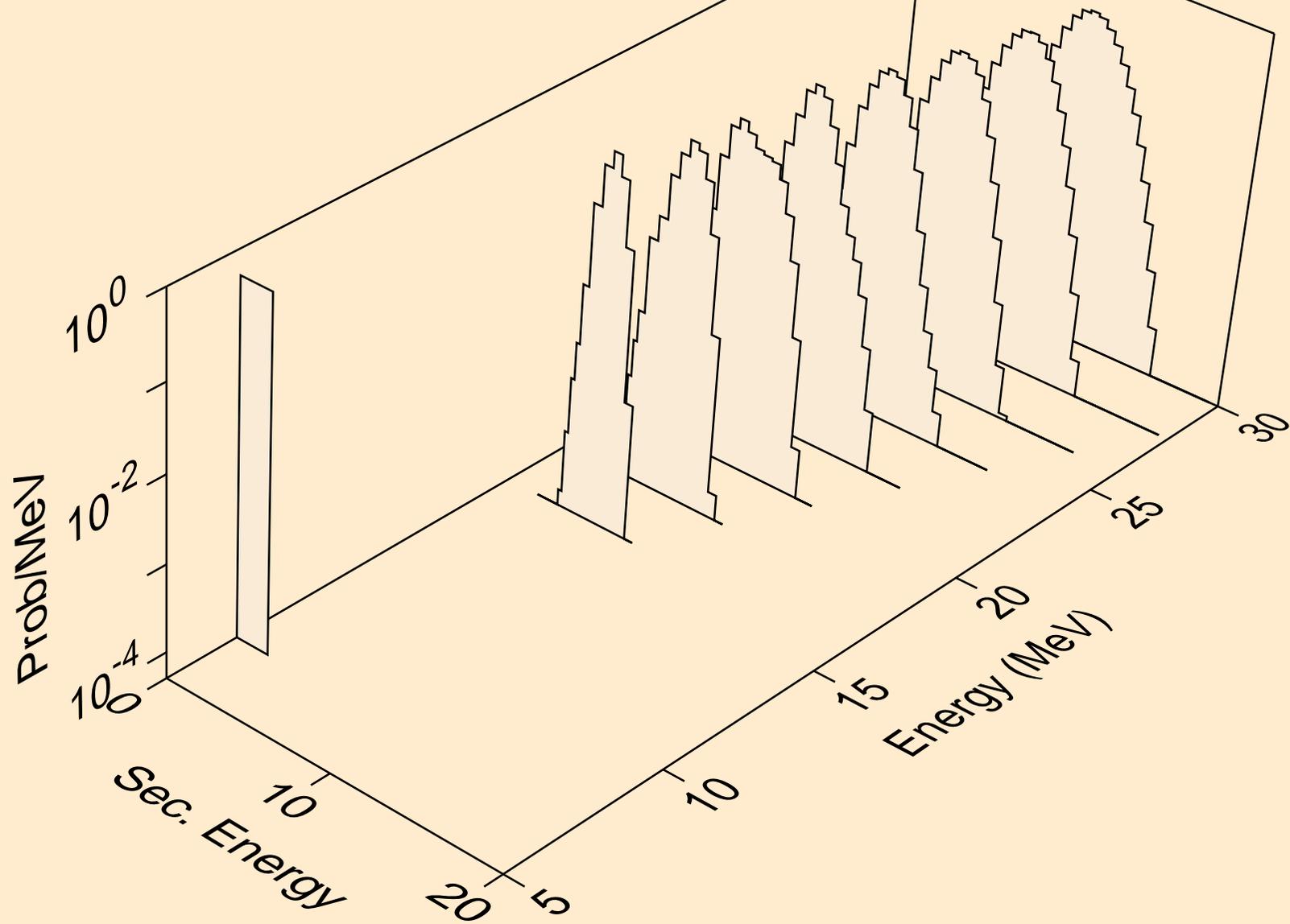
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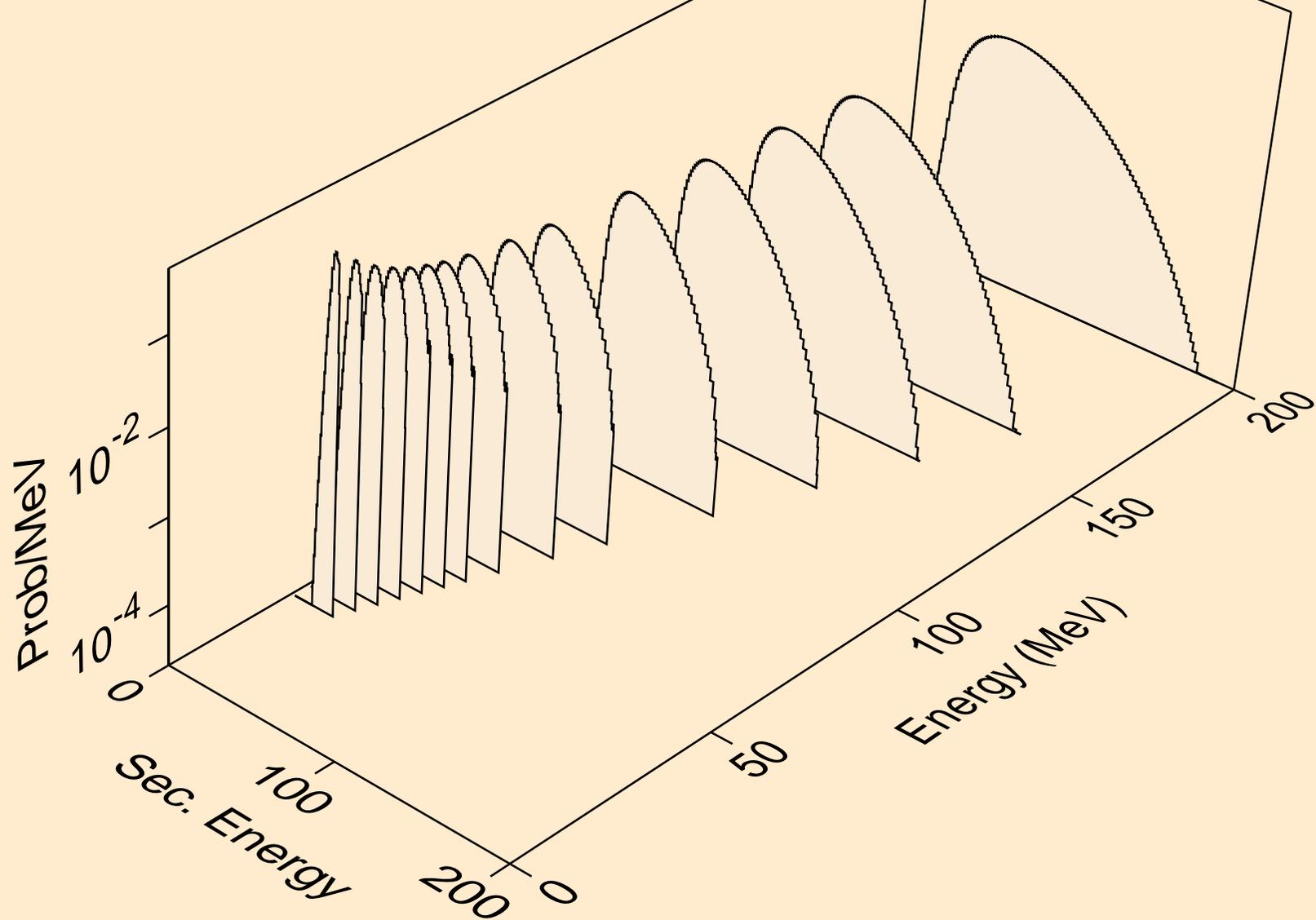
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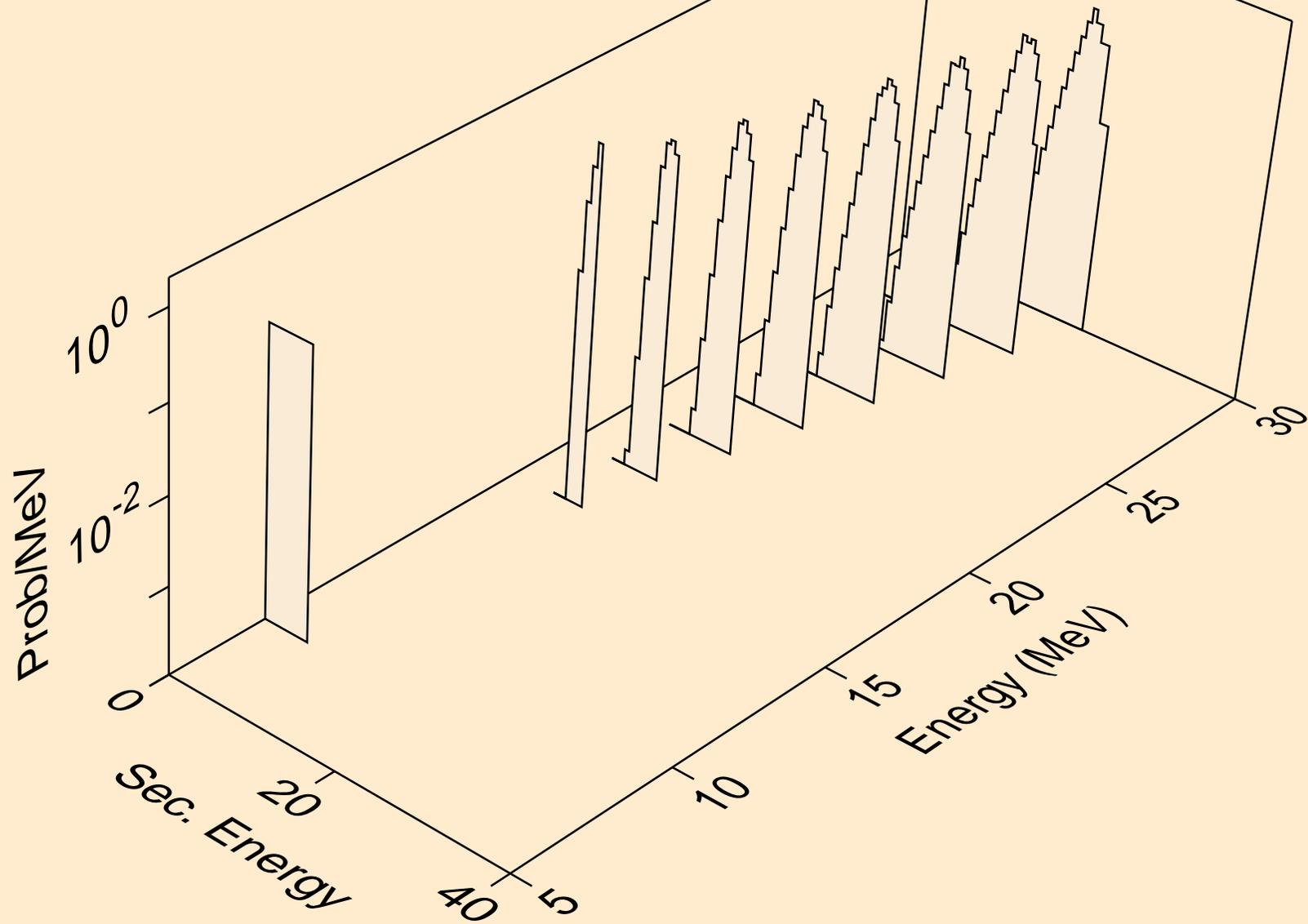
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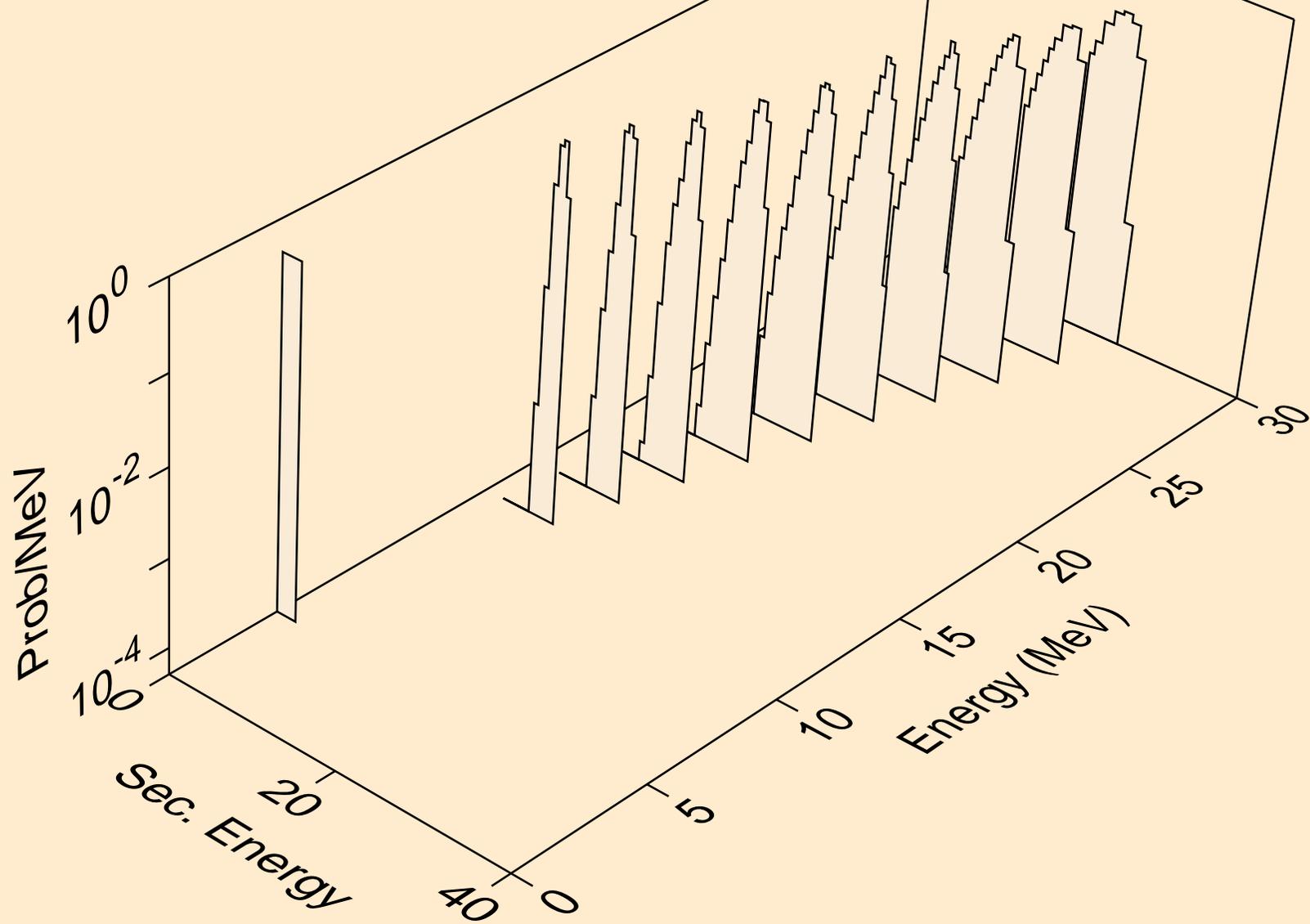
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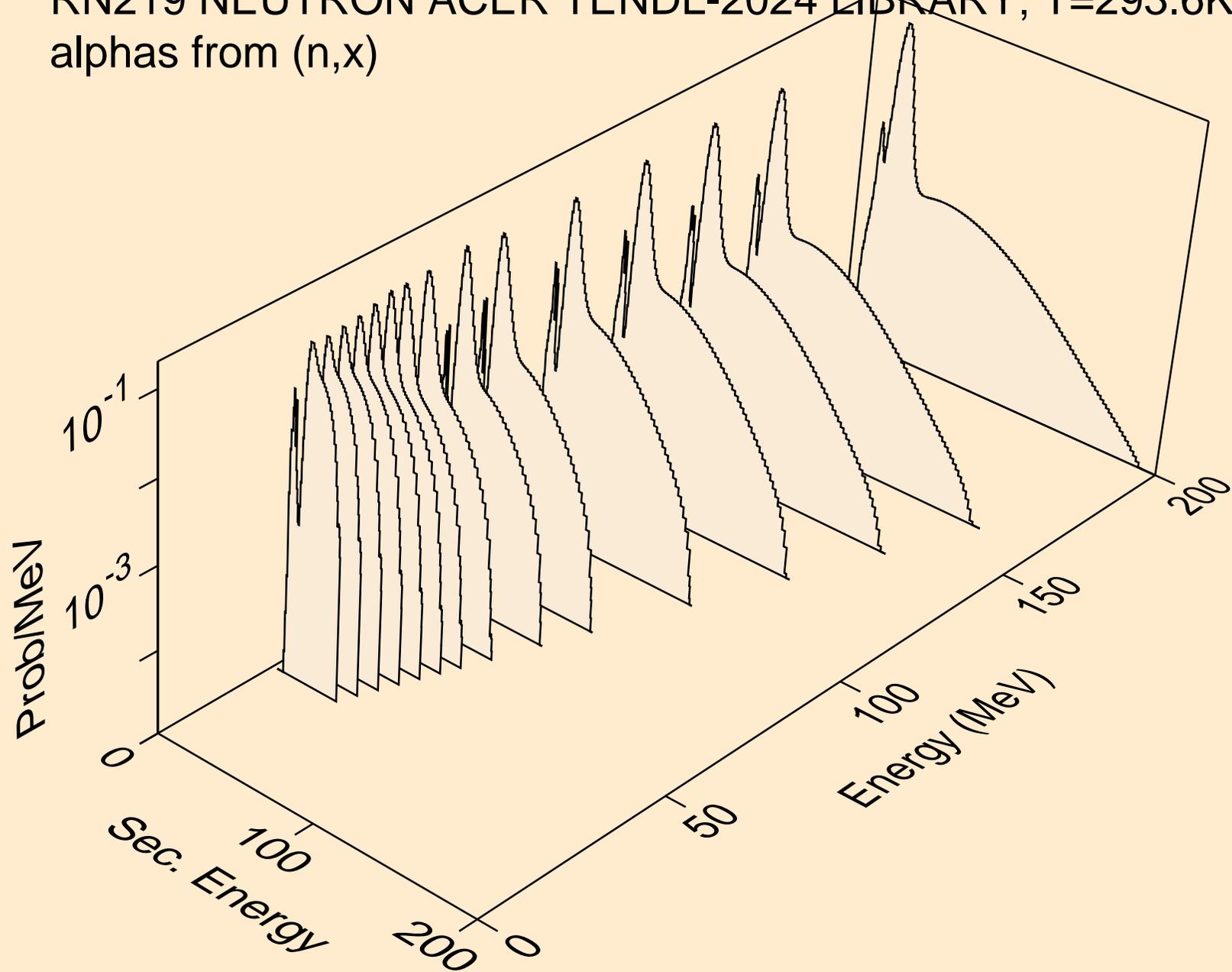
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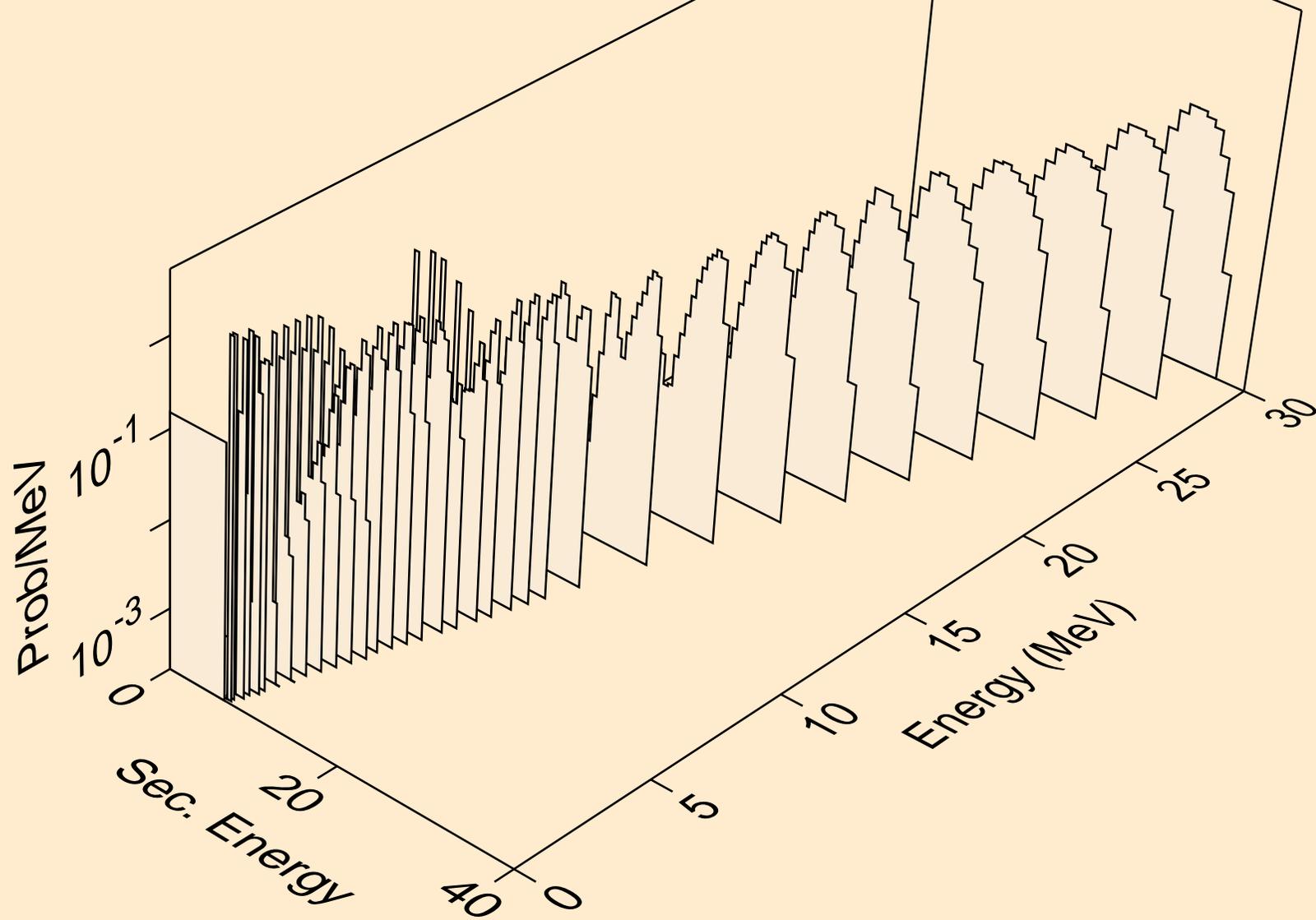
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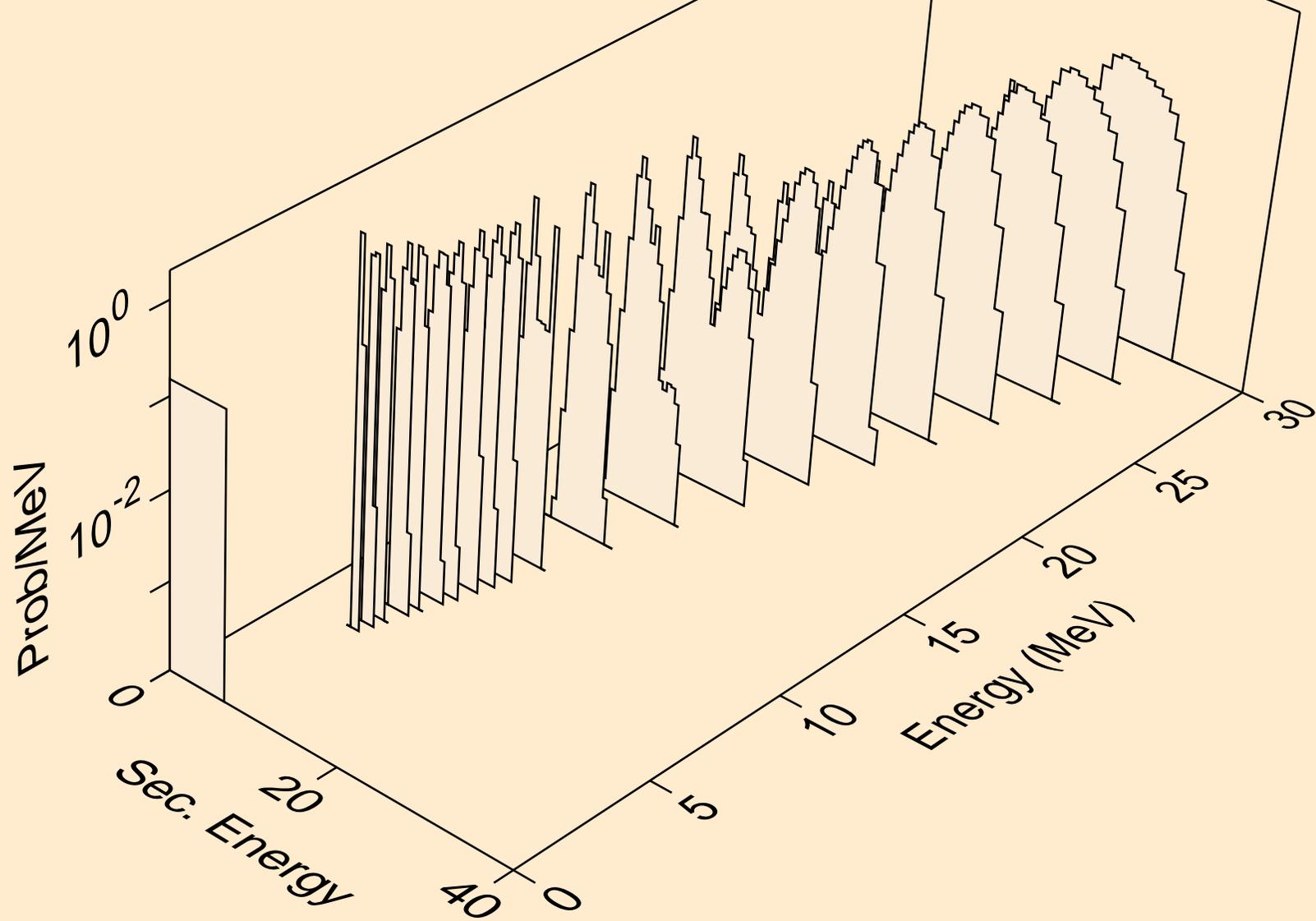
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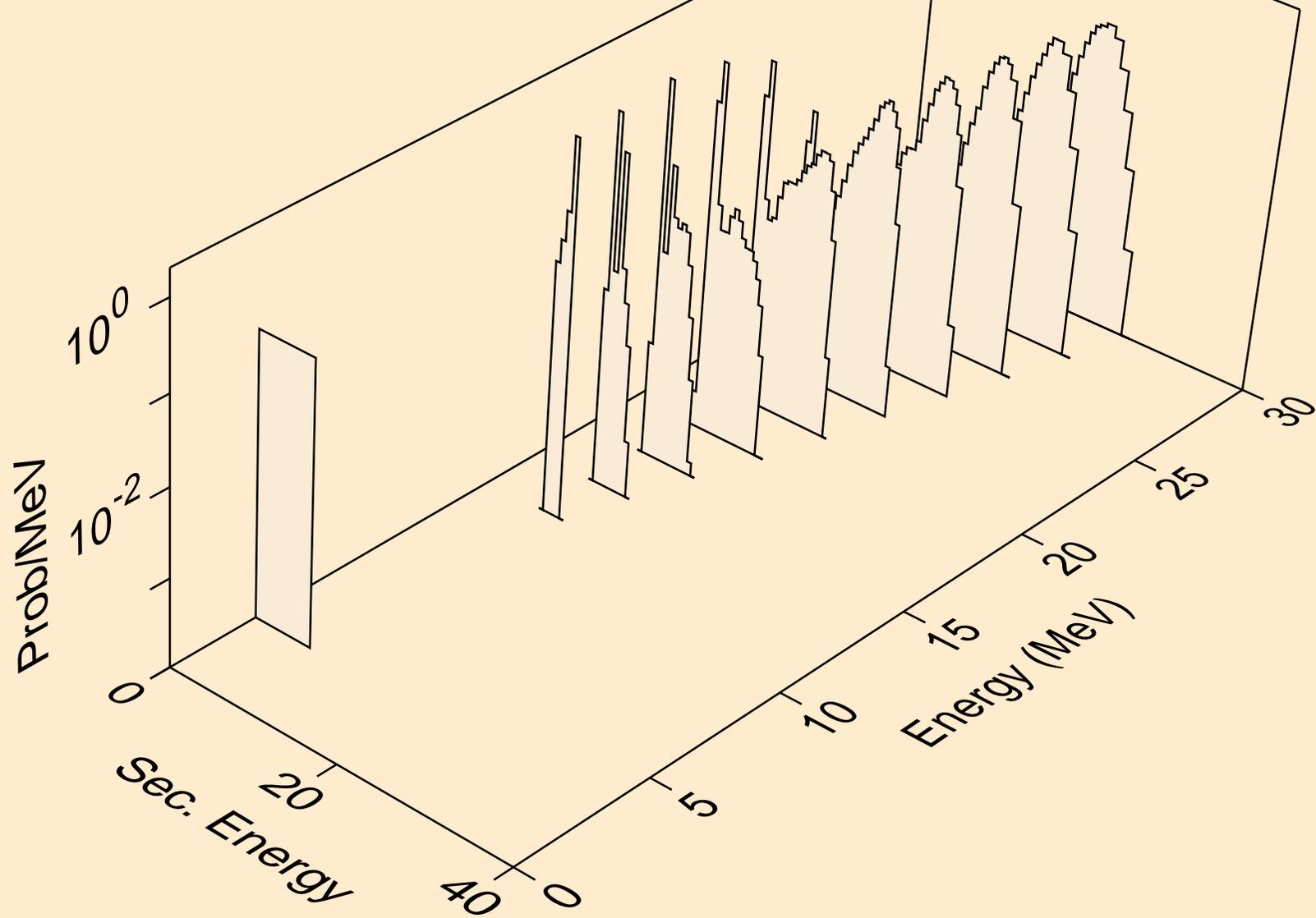
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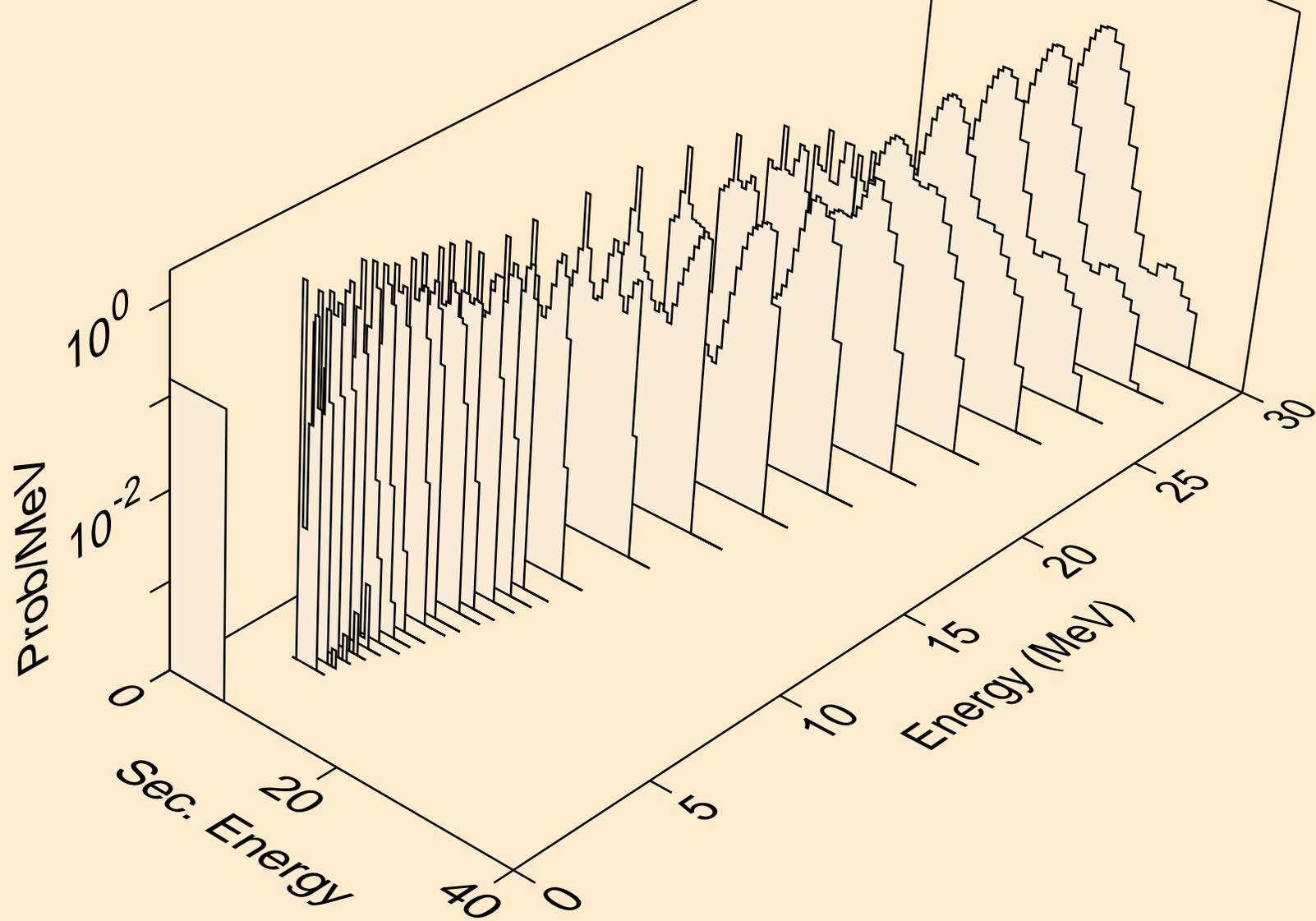
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alphas from (n,2n)a



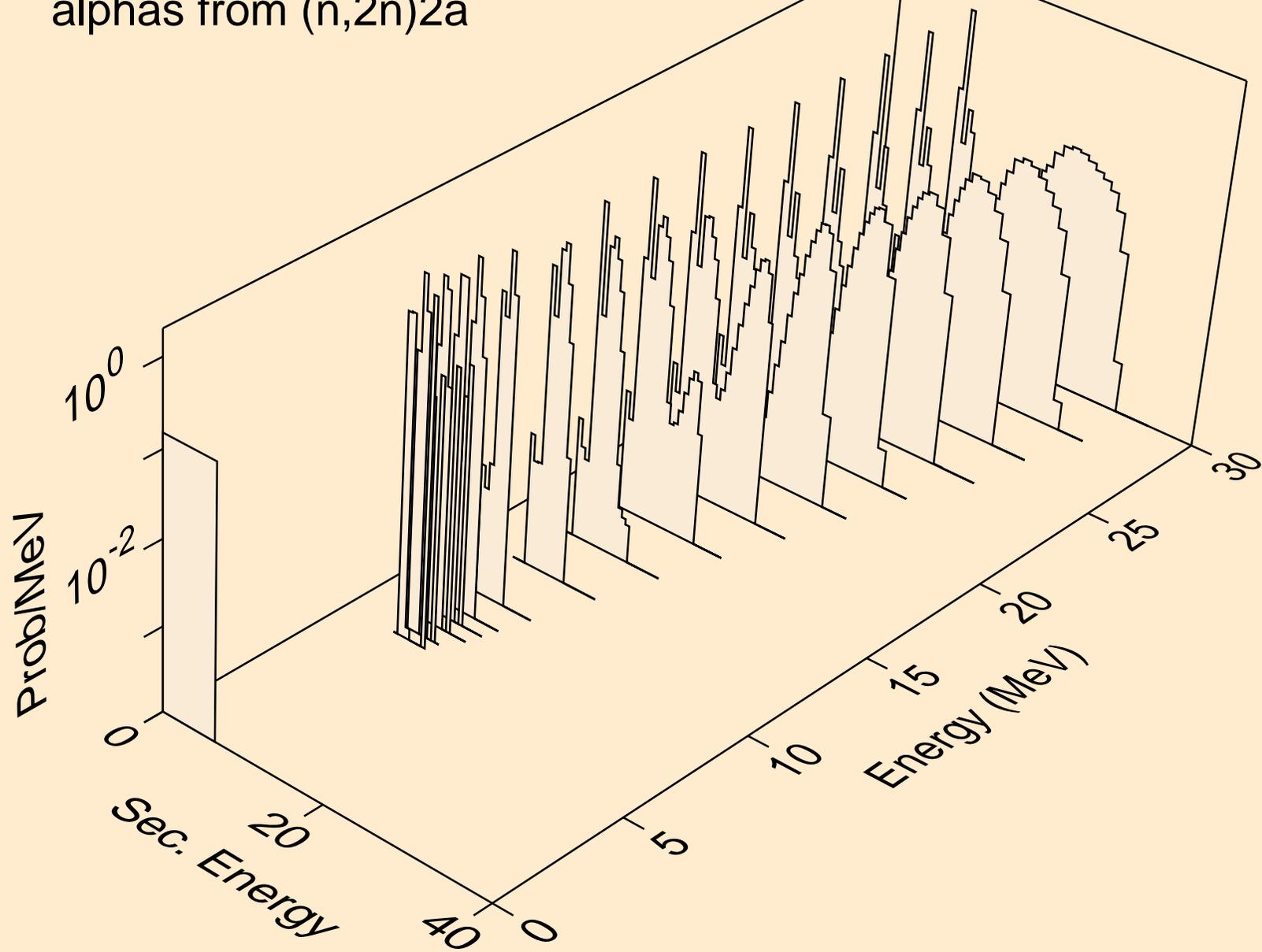
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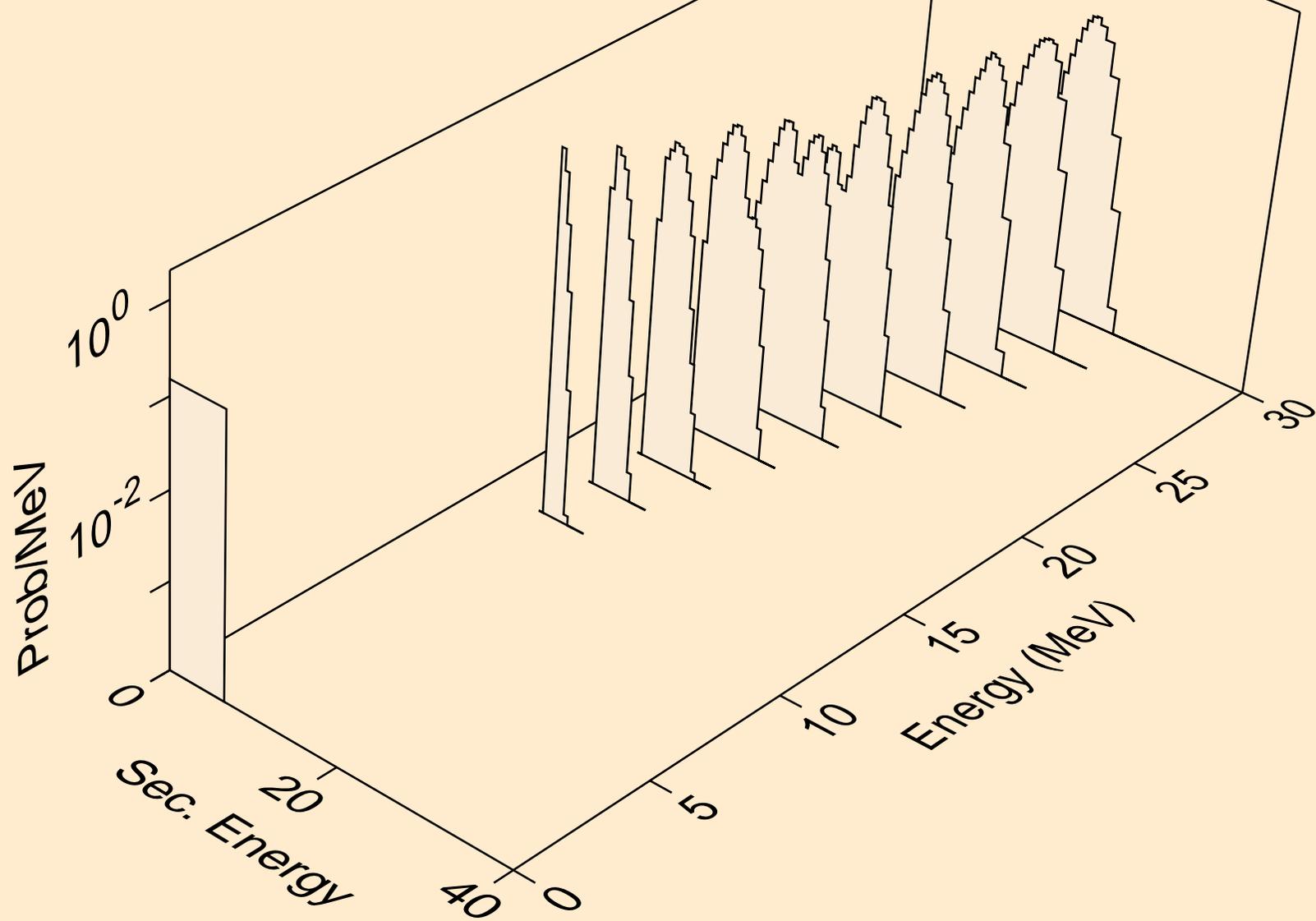
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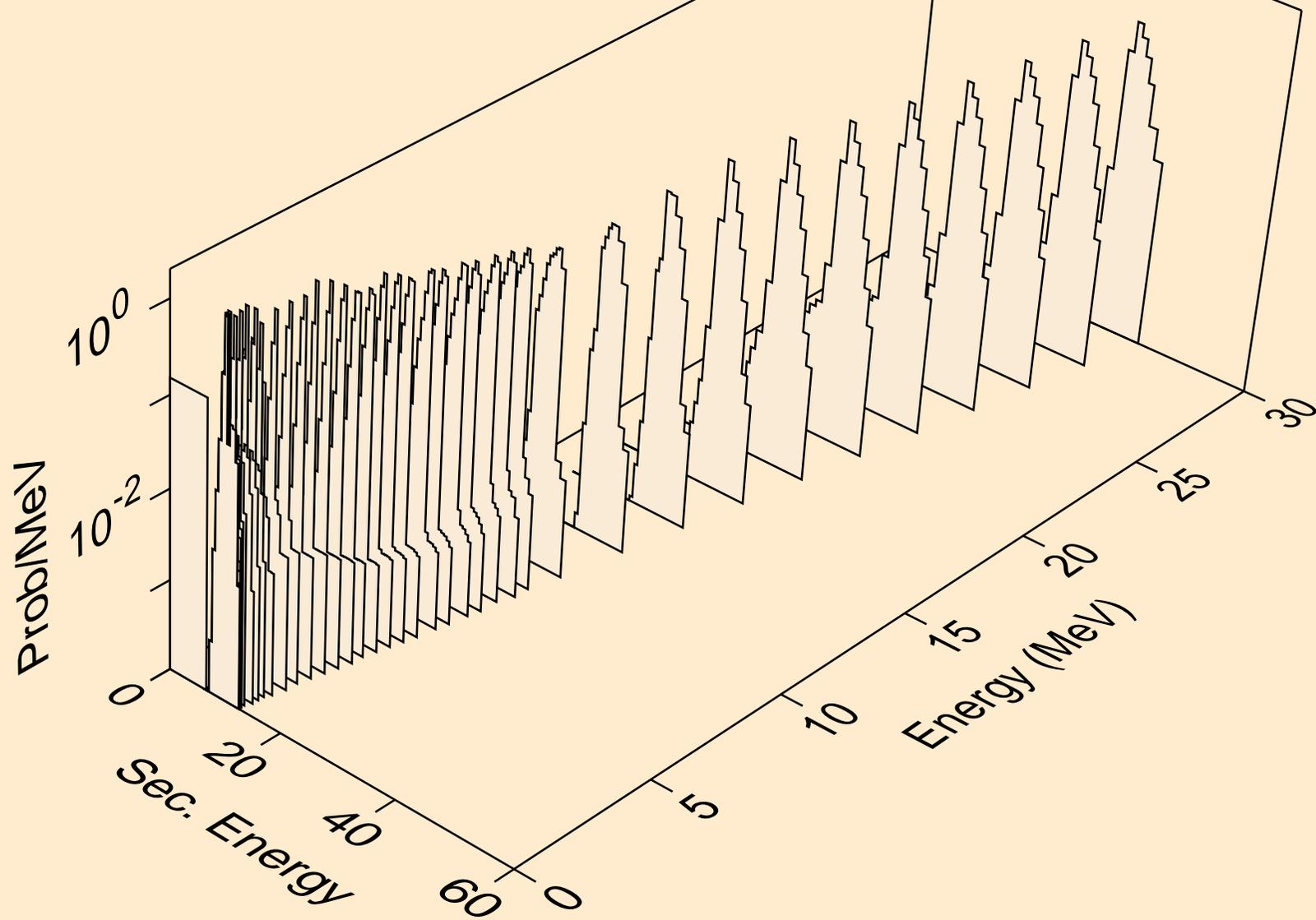
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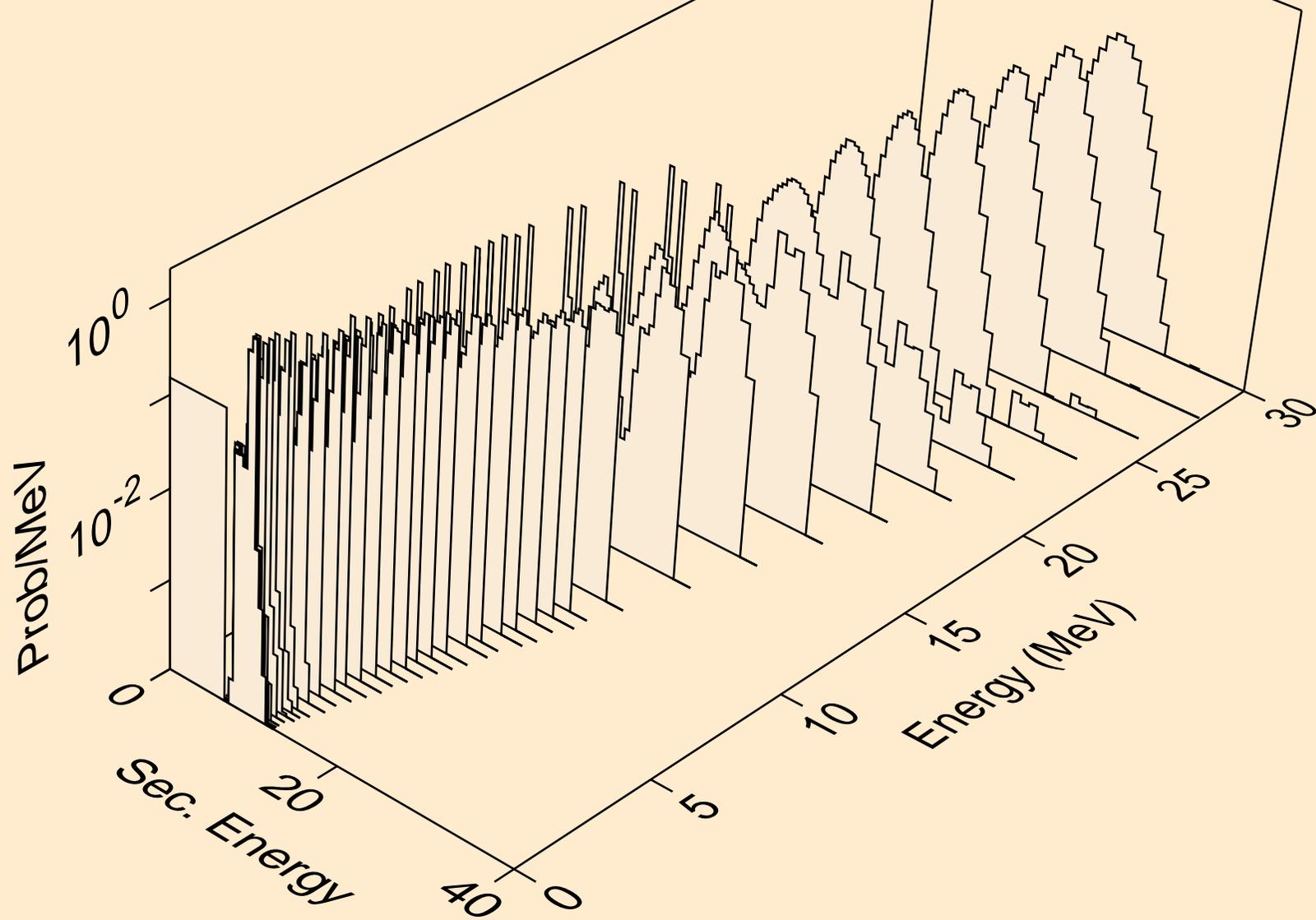
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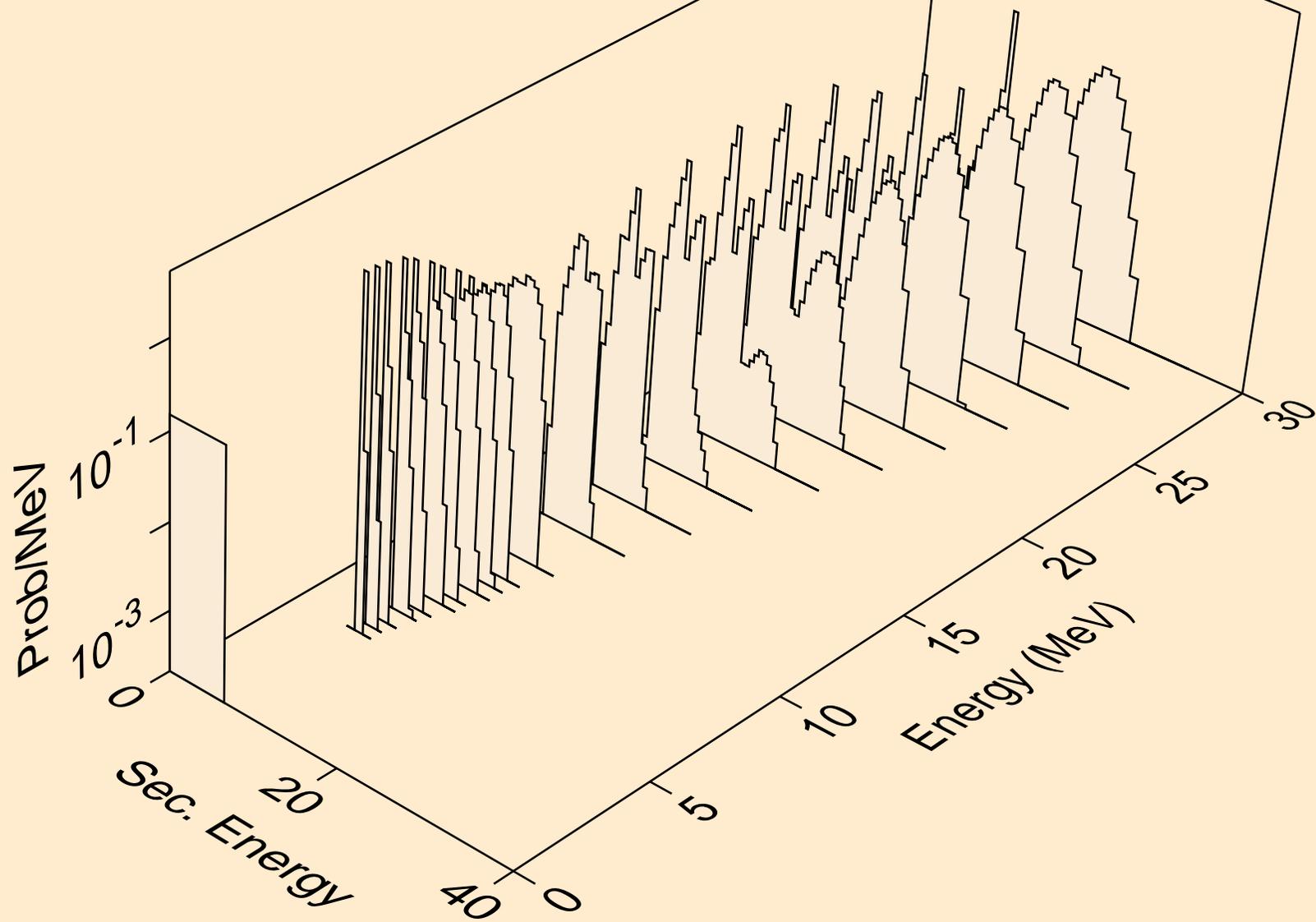
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alphas from (n,2a)



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,pa)



RN219 NEUTRON ACER TENDL-2024 LIBRARY; T=293.6K  
alphas from (n,da)

