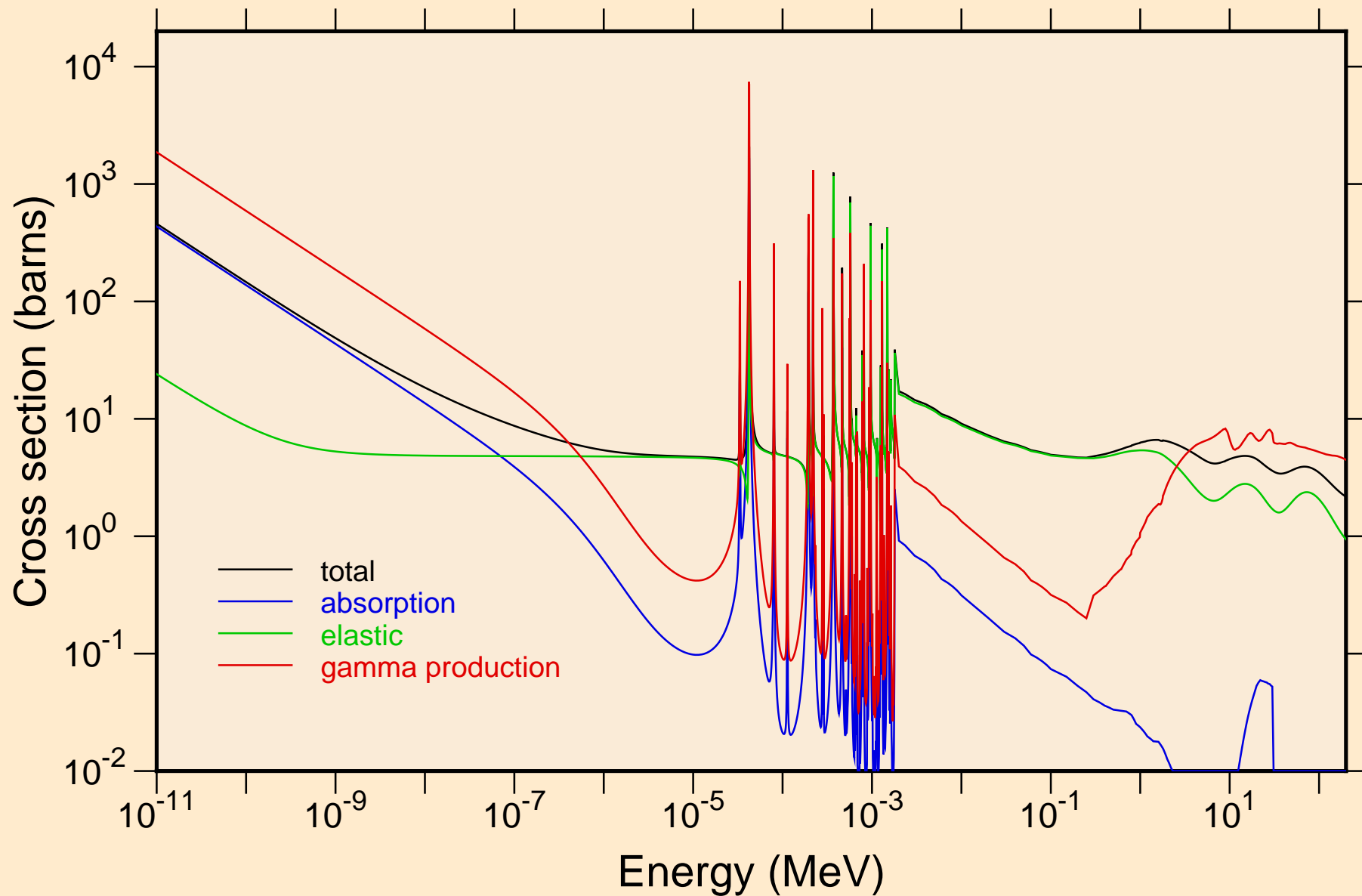
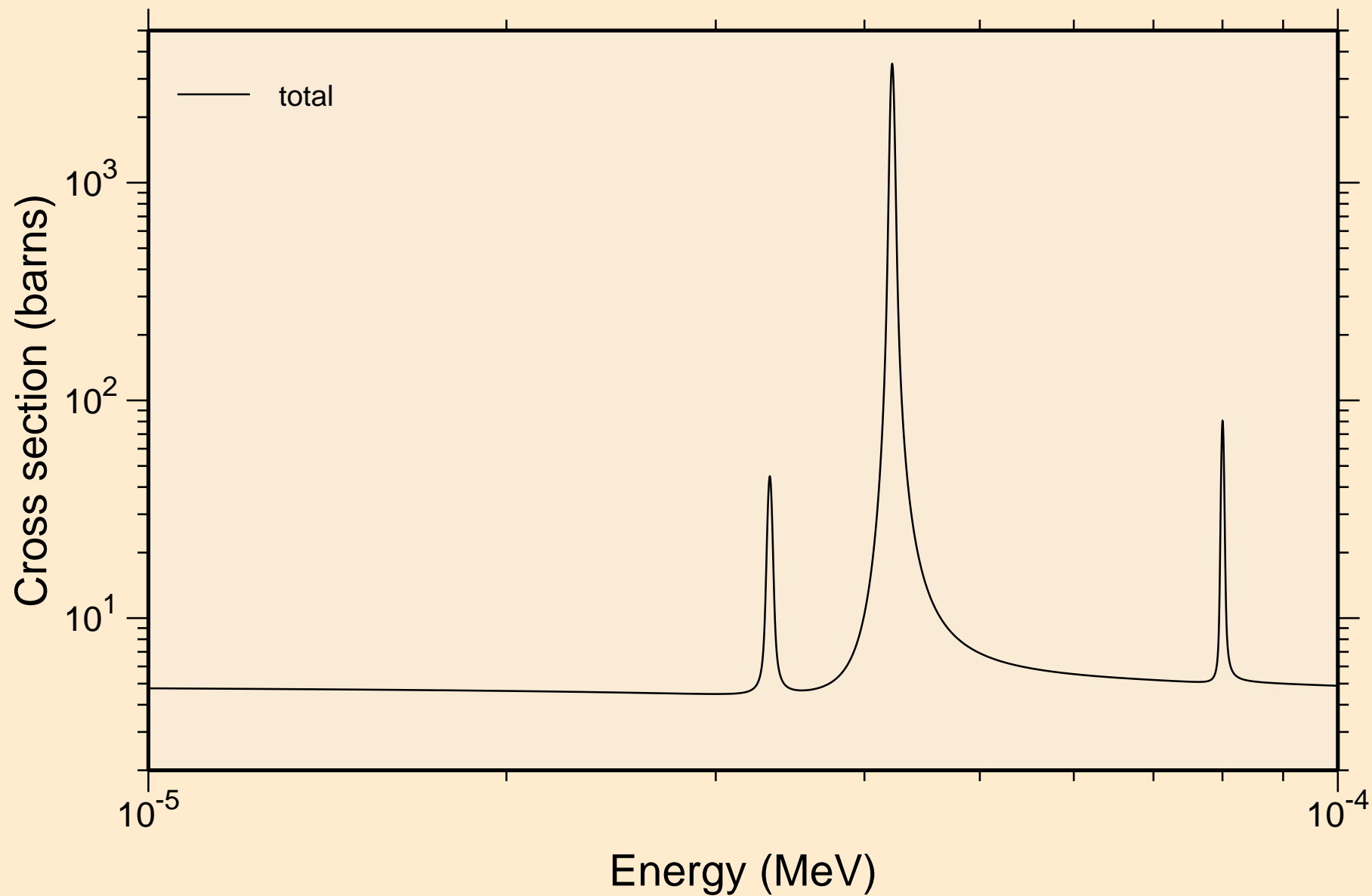


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

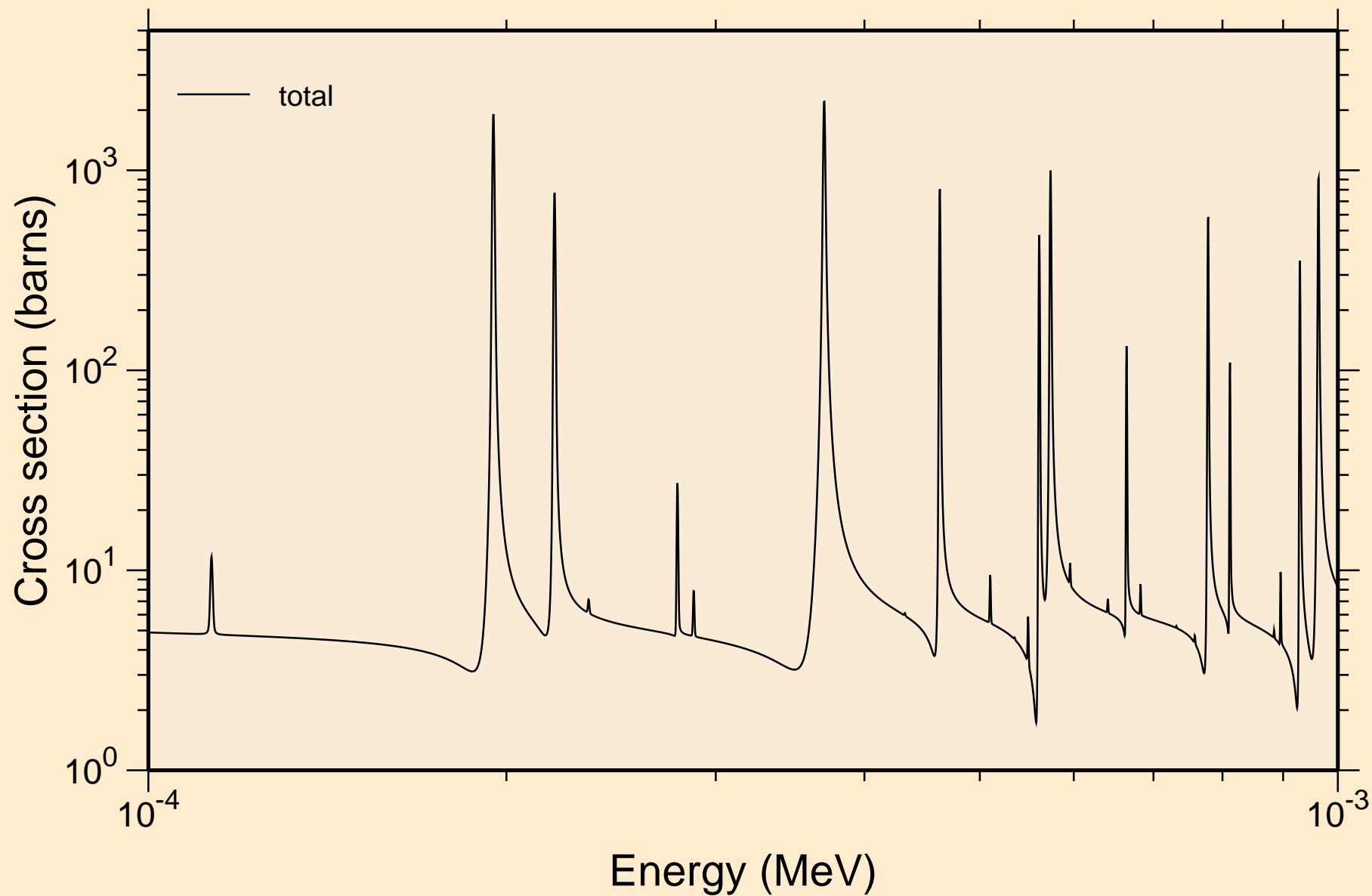
## Principal cross sections



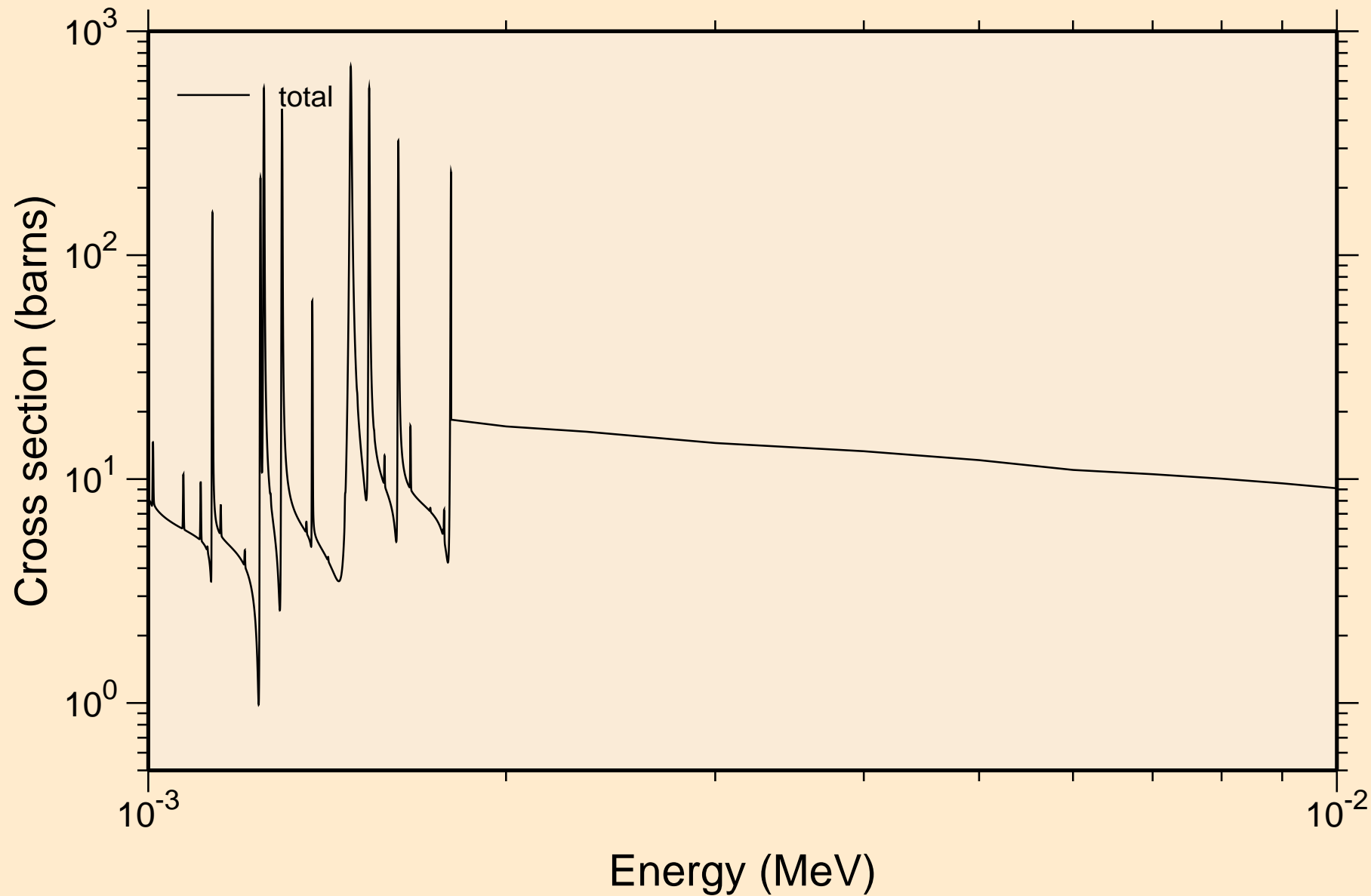
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



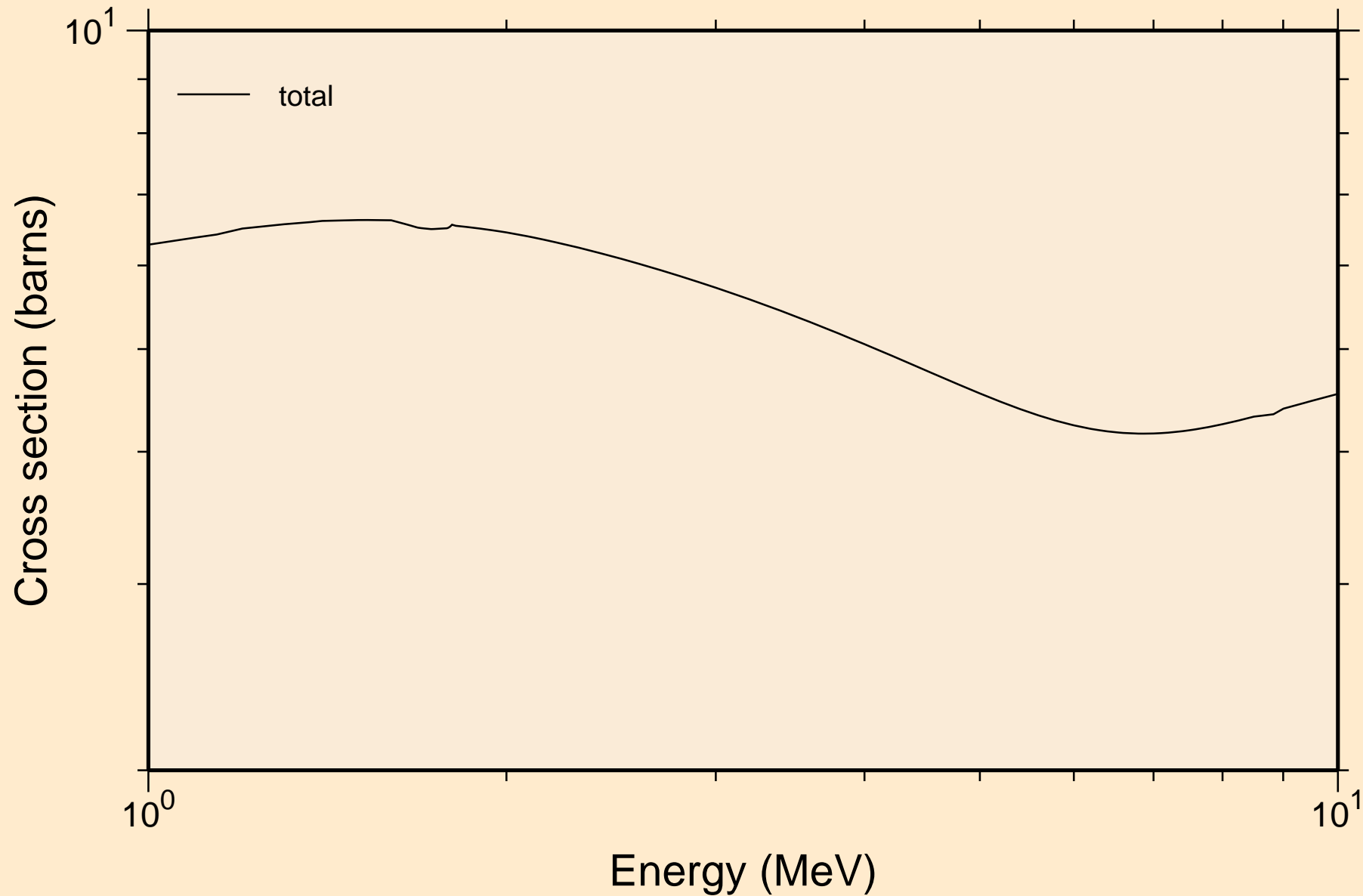
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



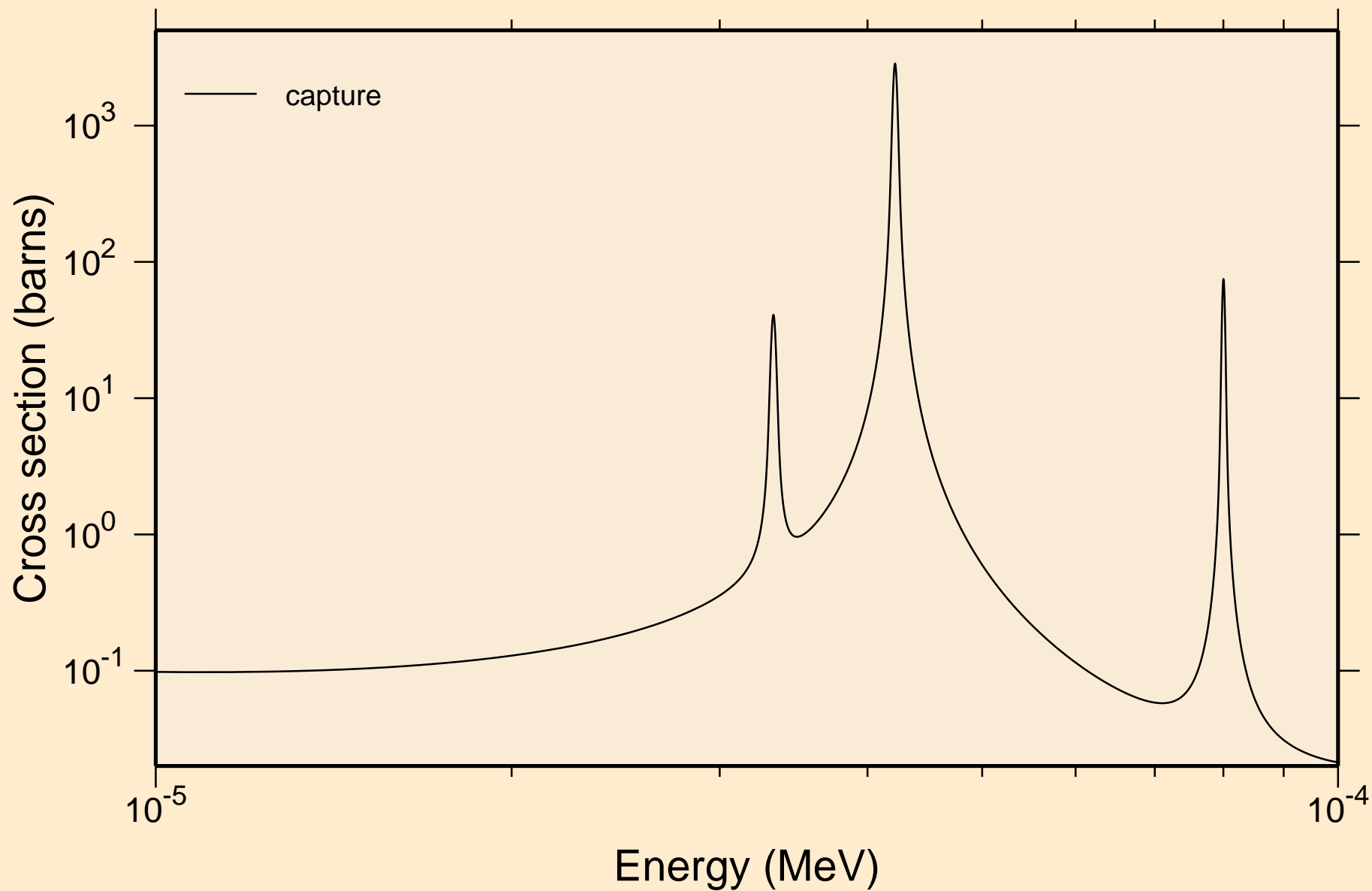
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



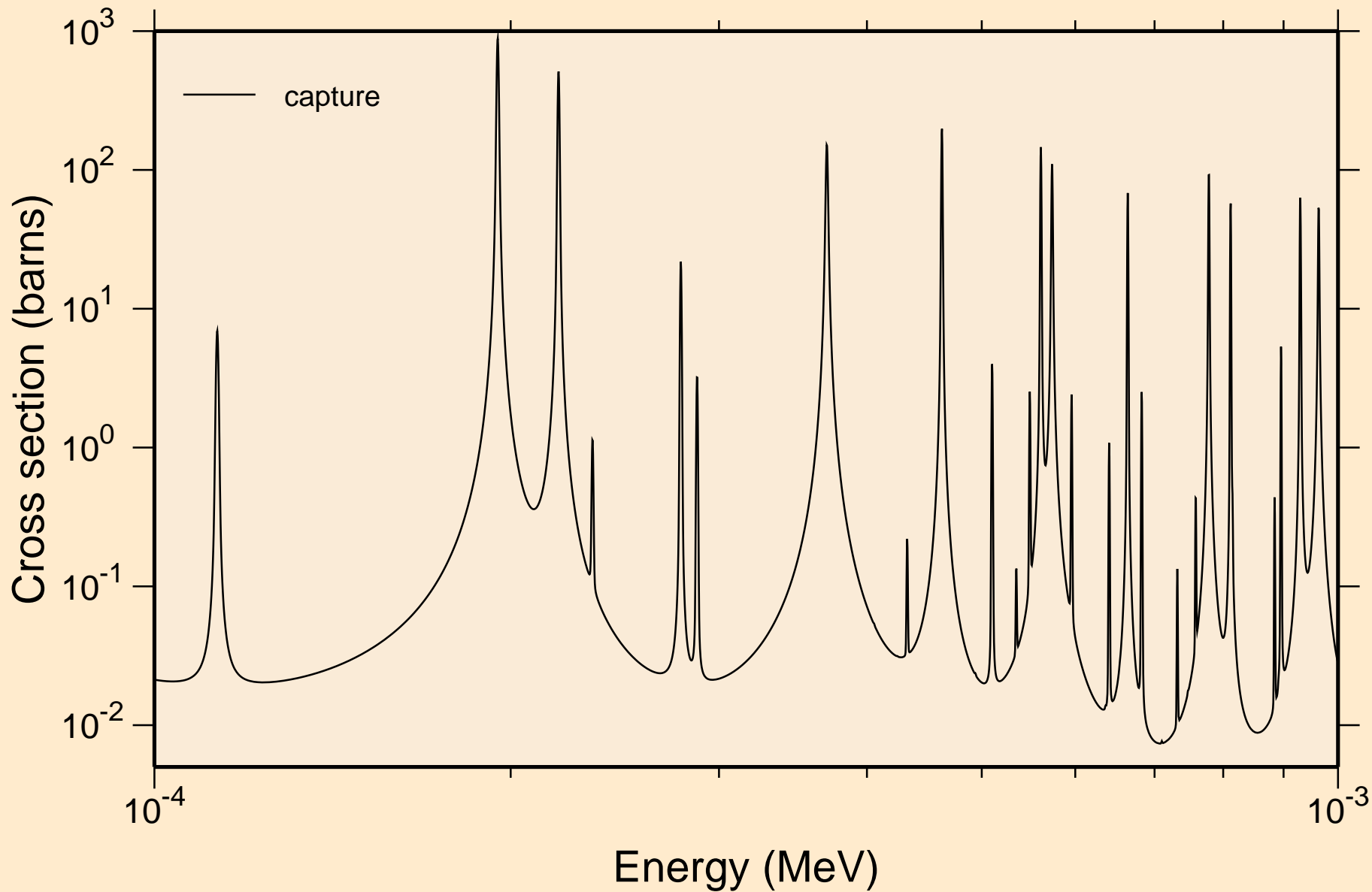
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



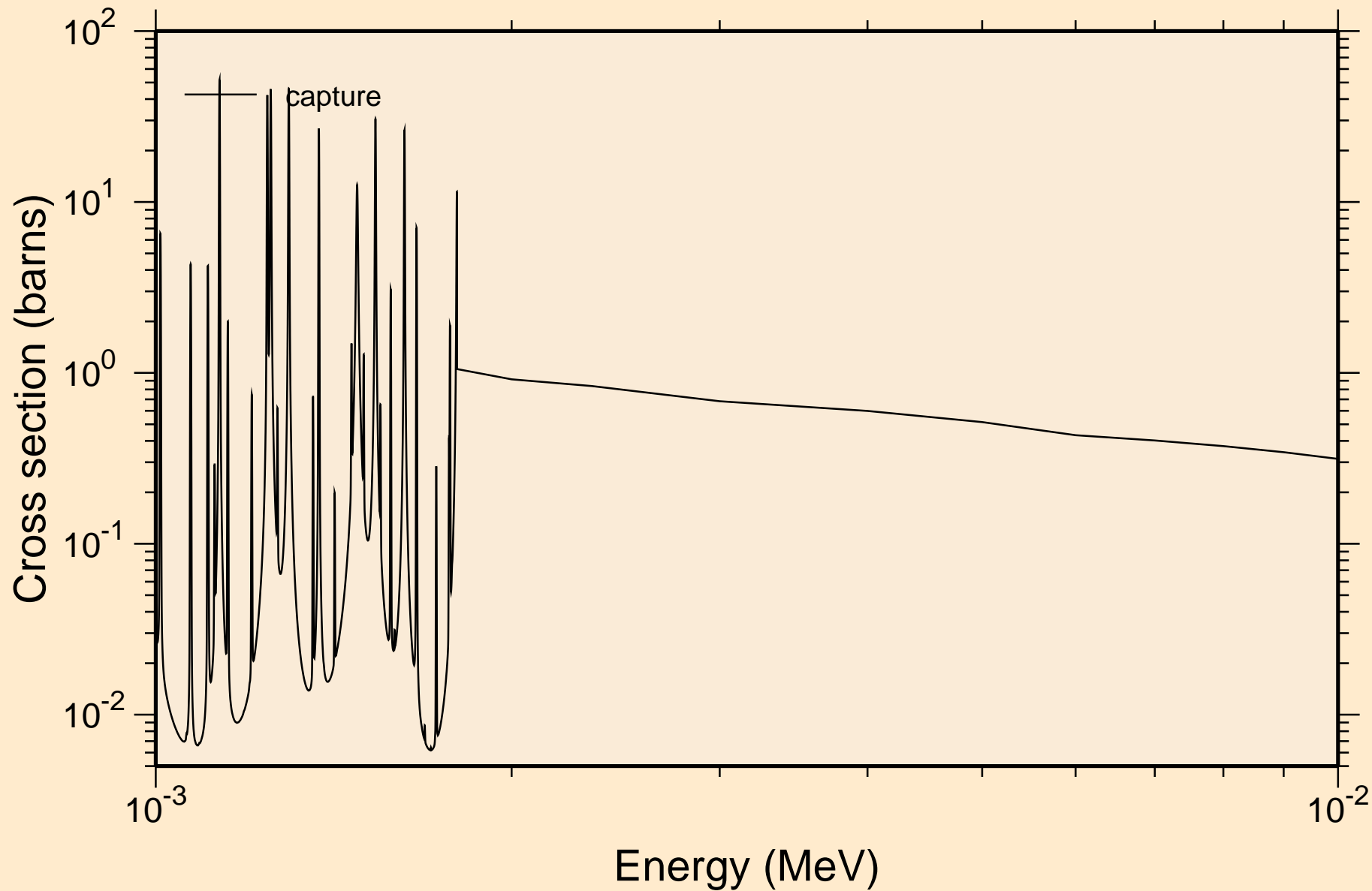
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

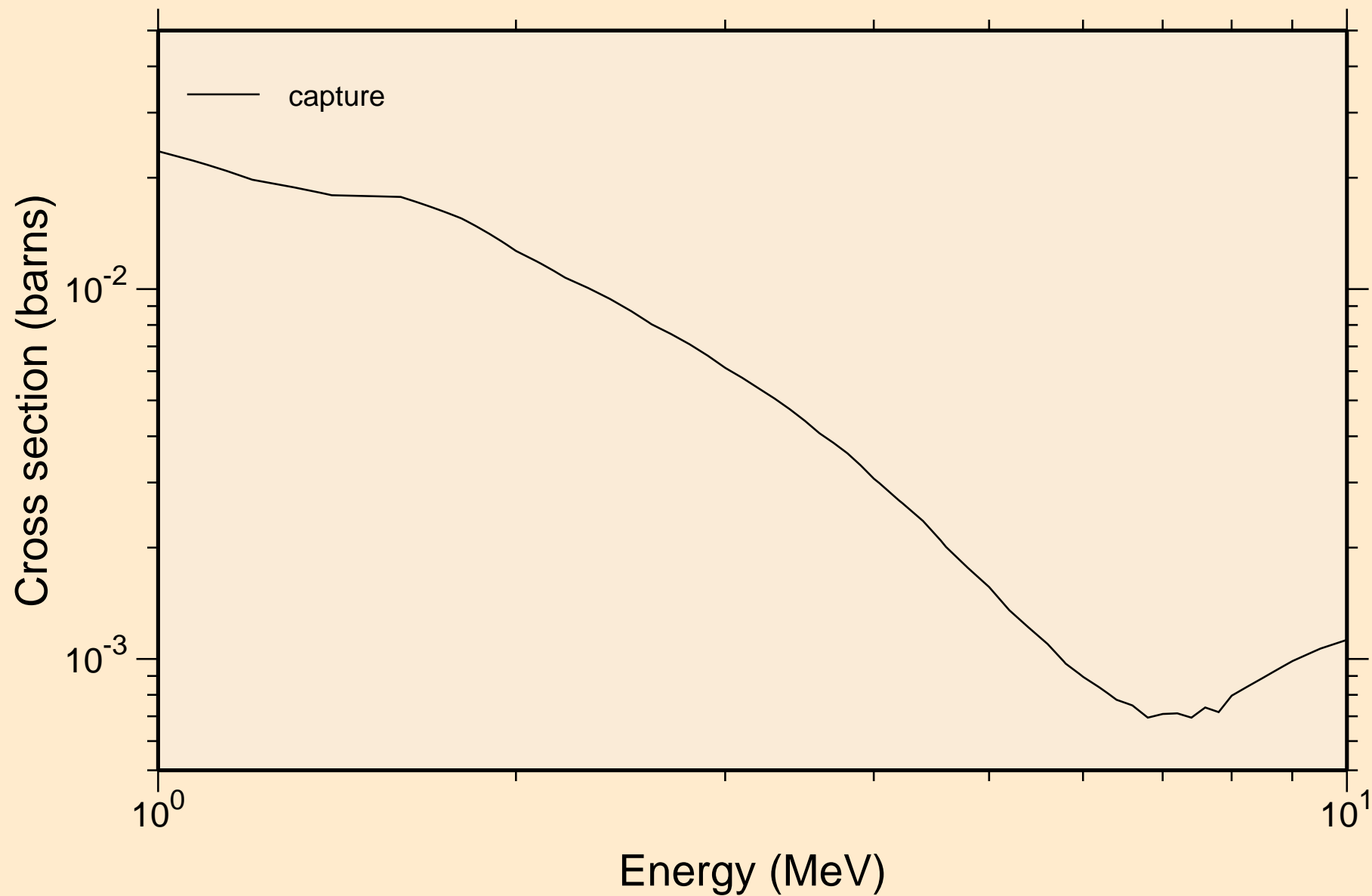


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

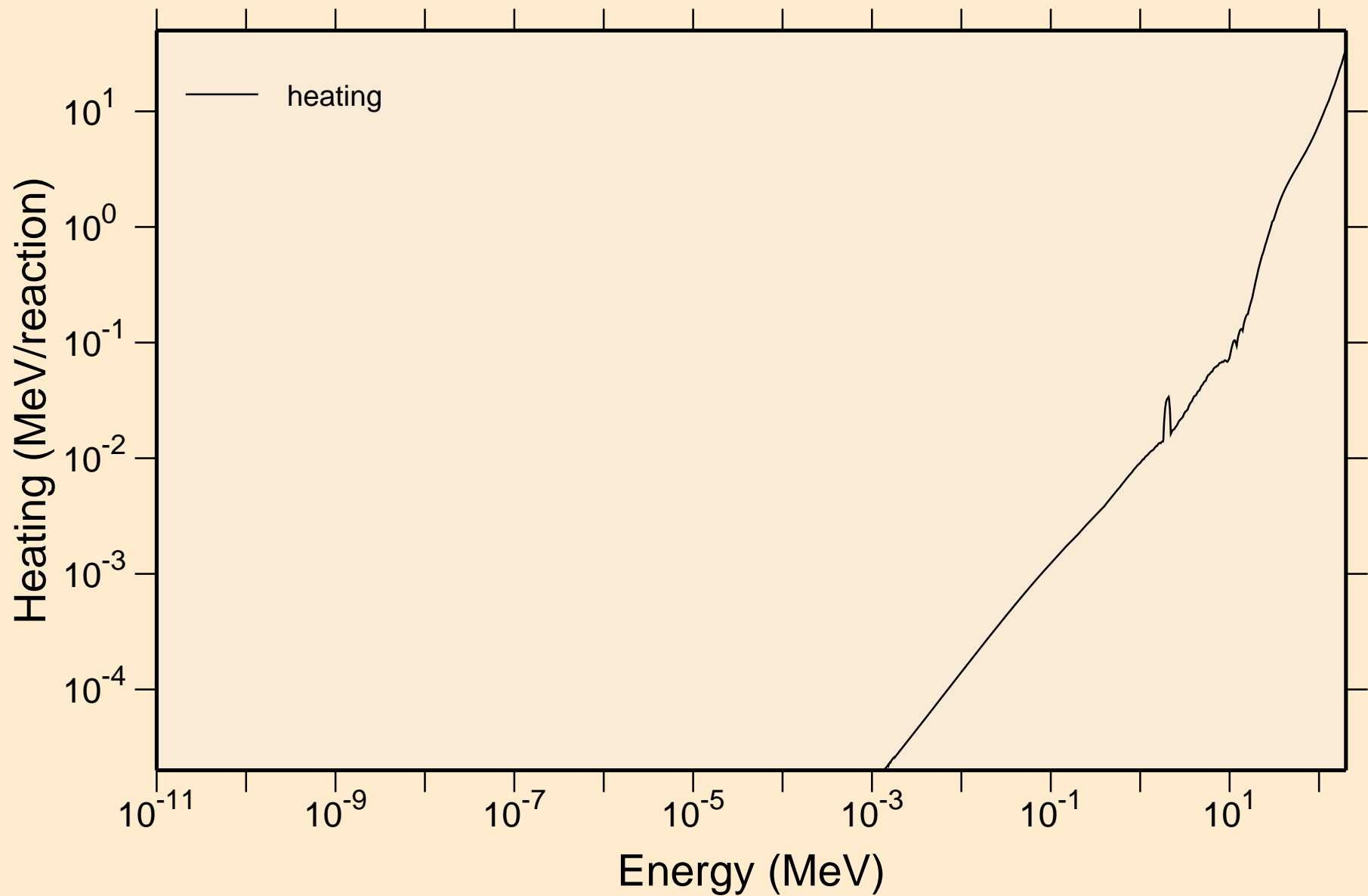




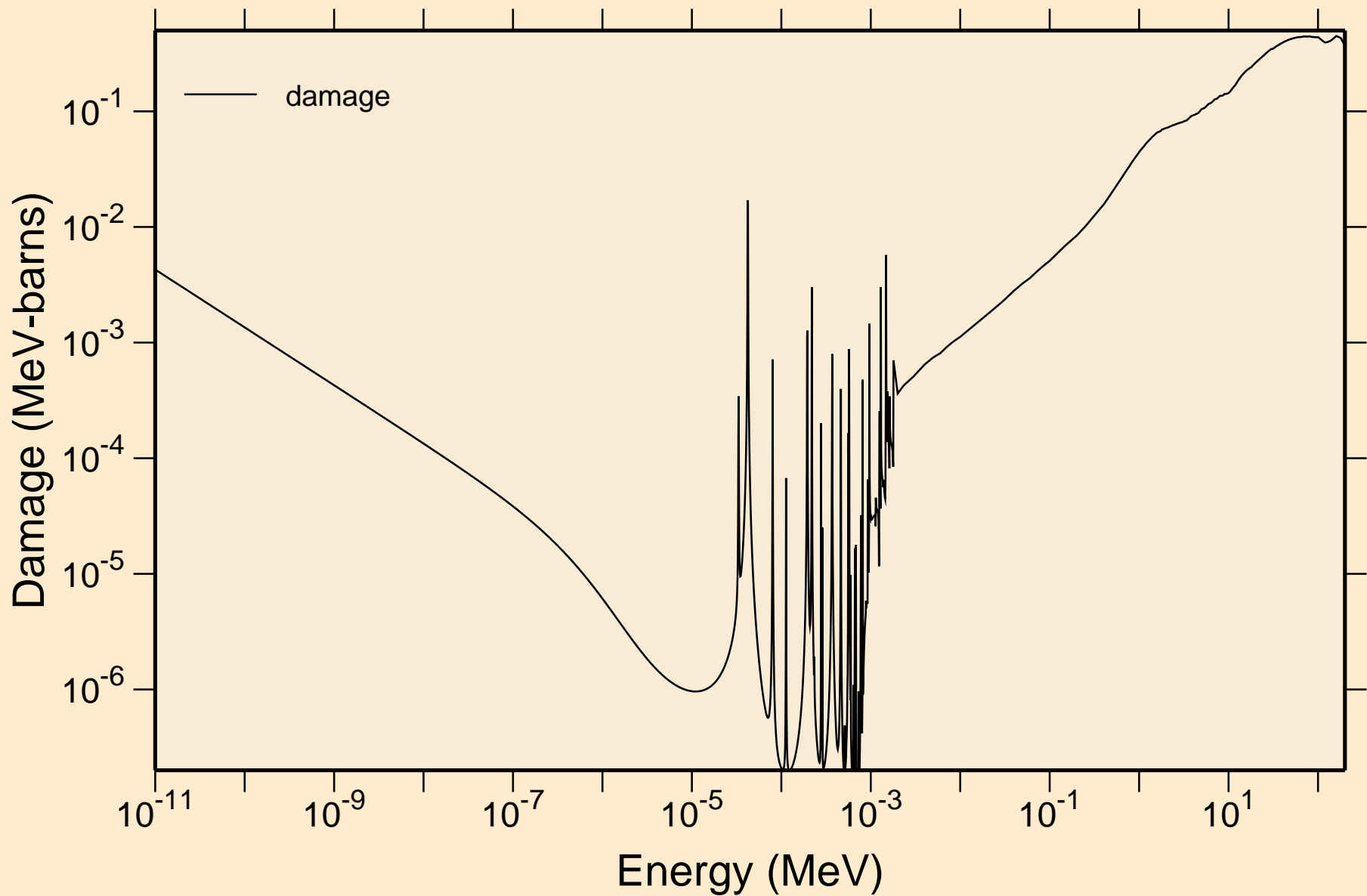
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



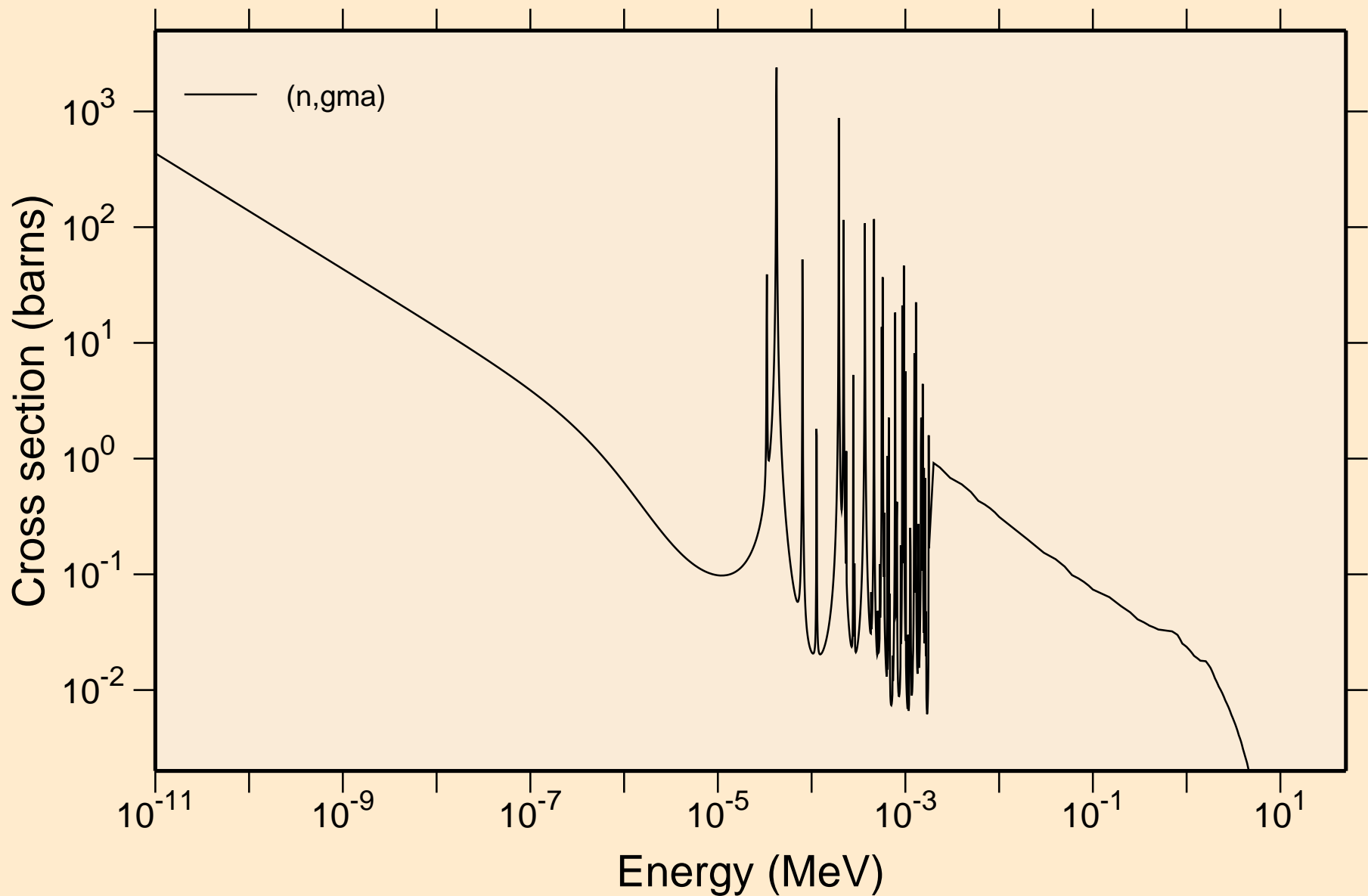
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

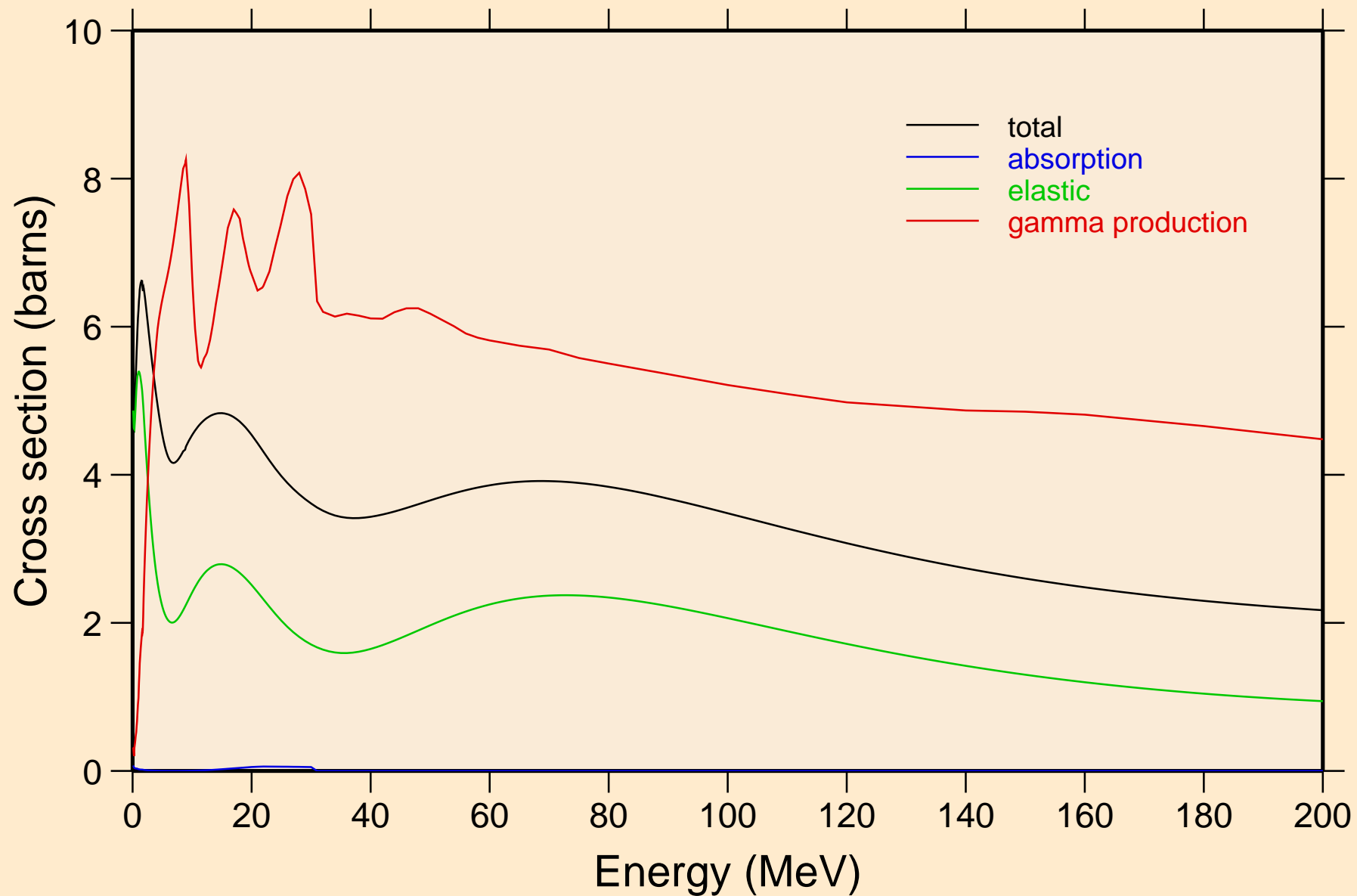


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

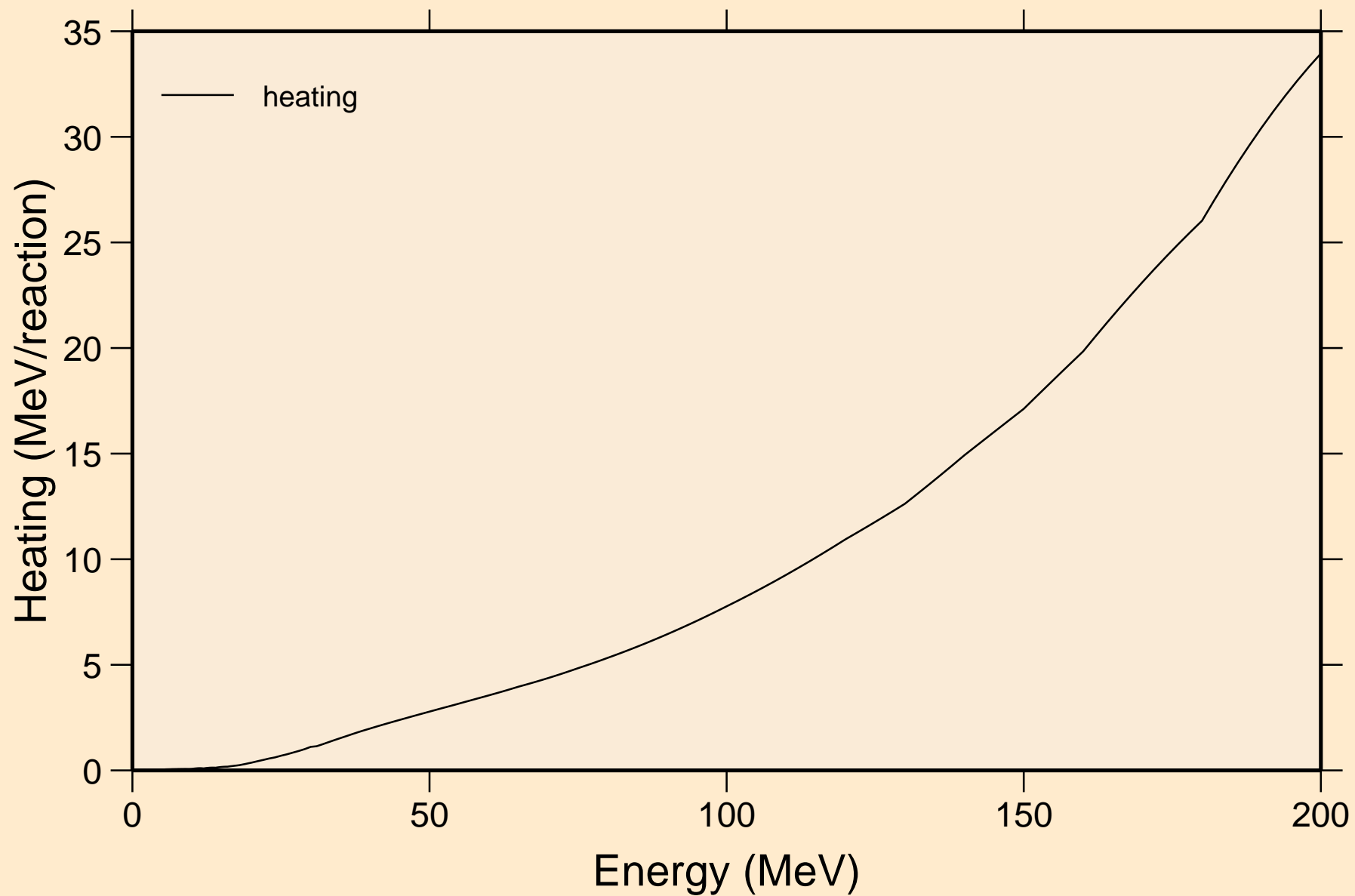


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

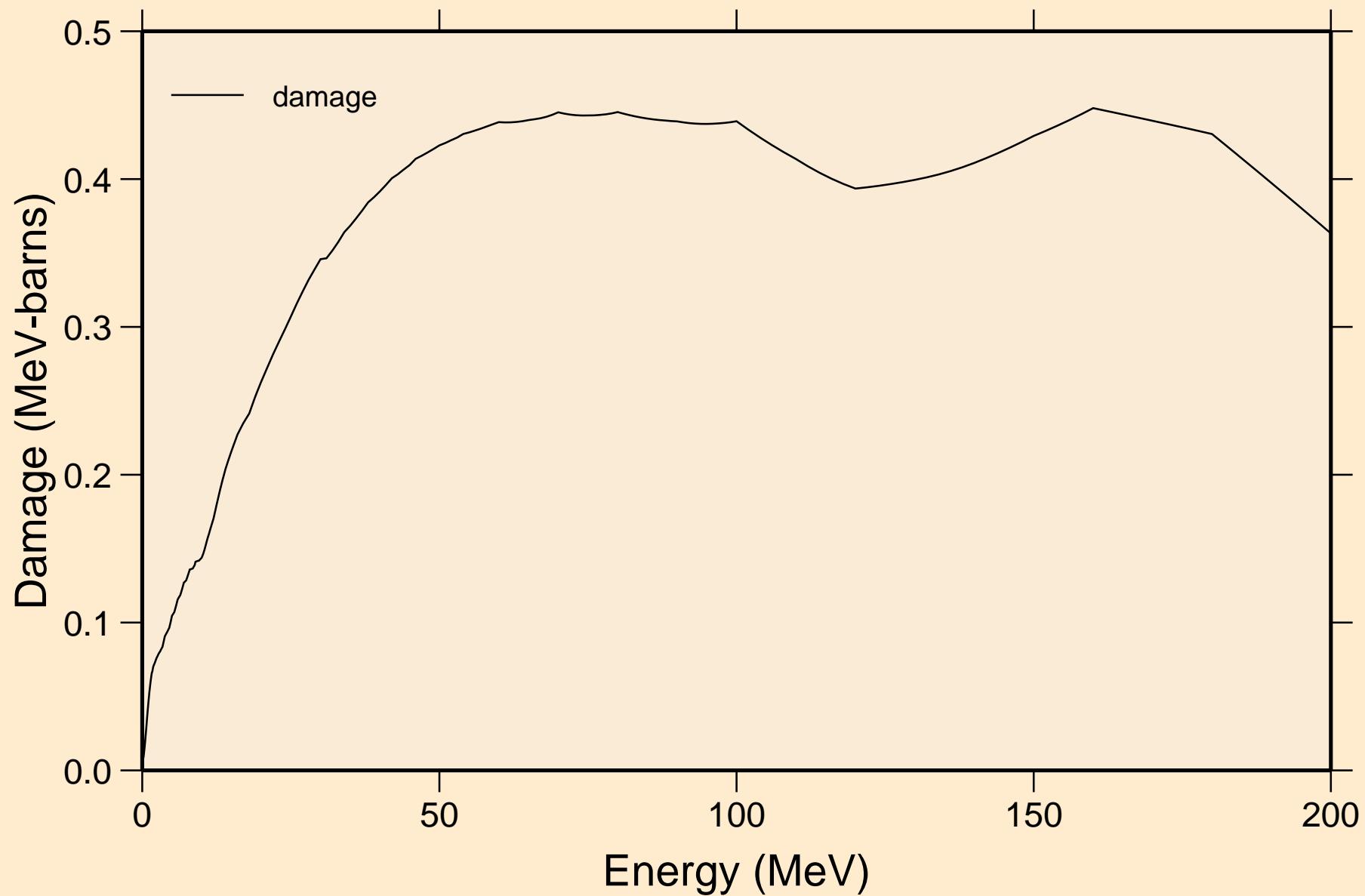
## Principal cross sections



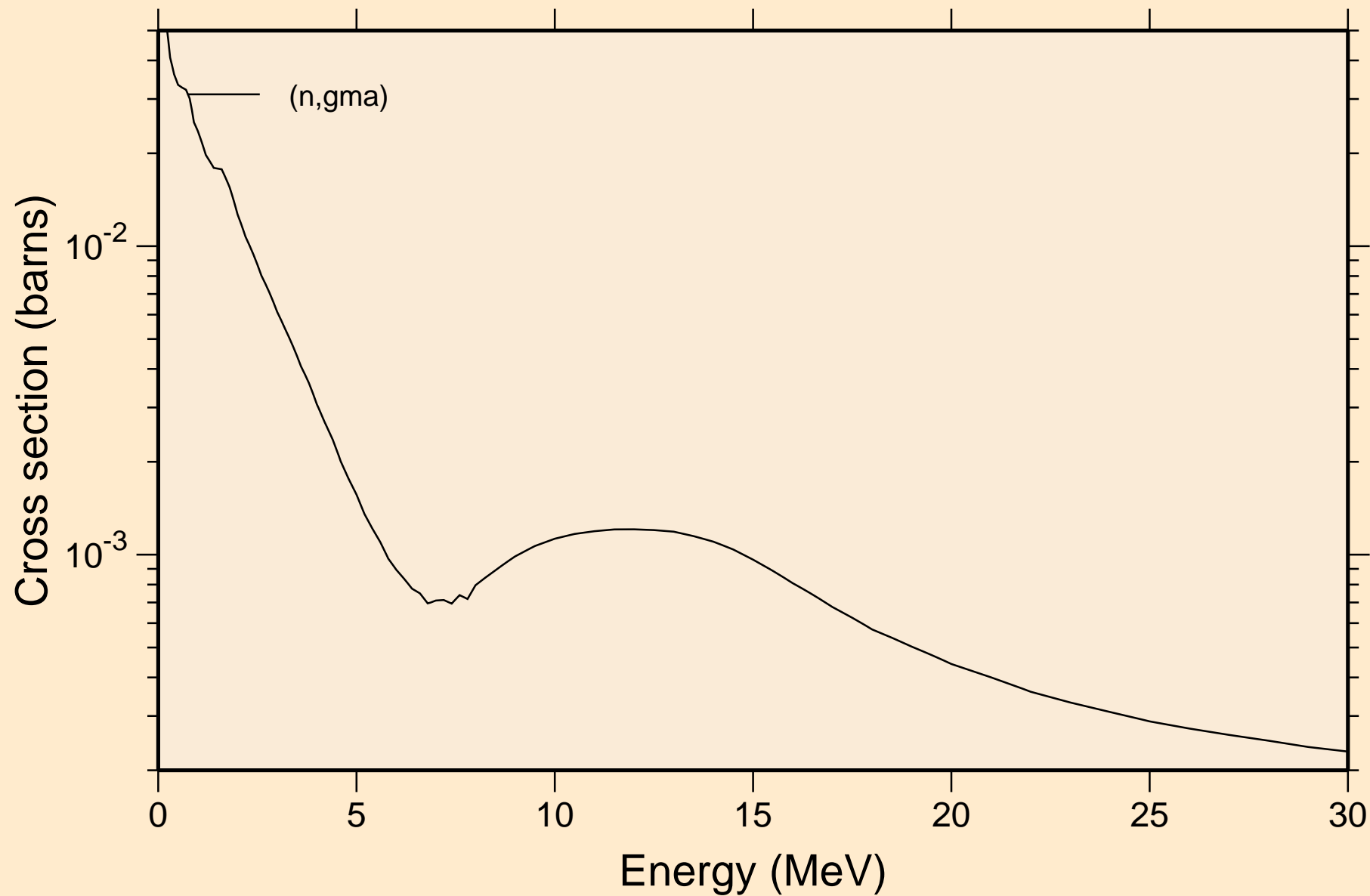
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

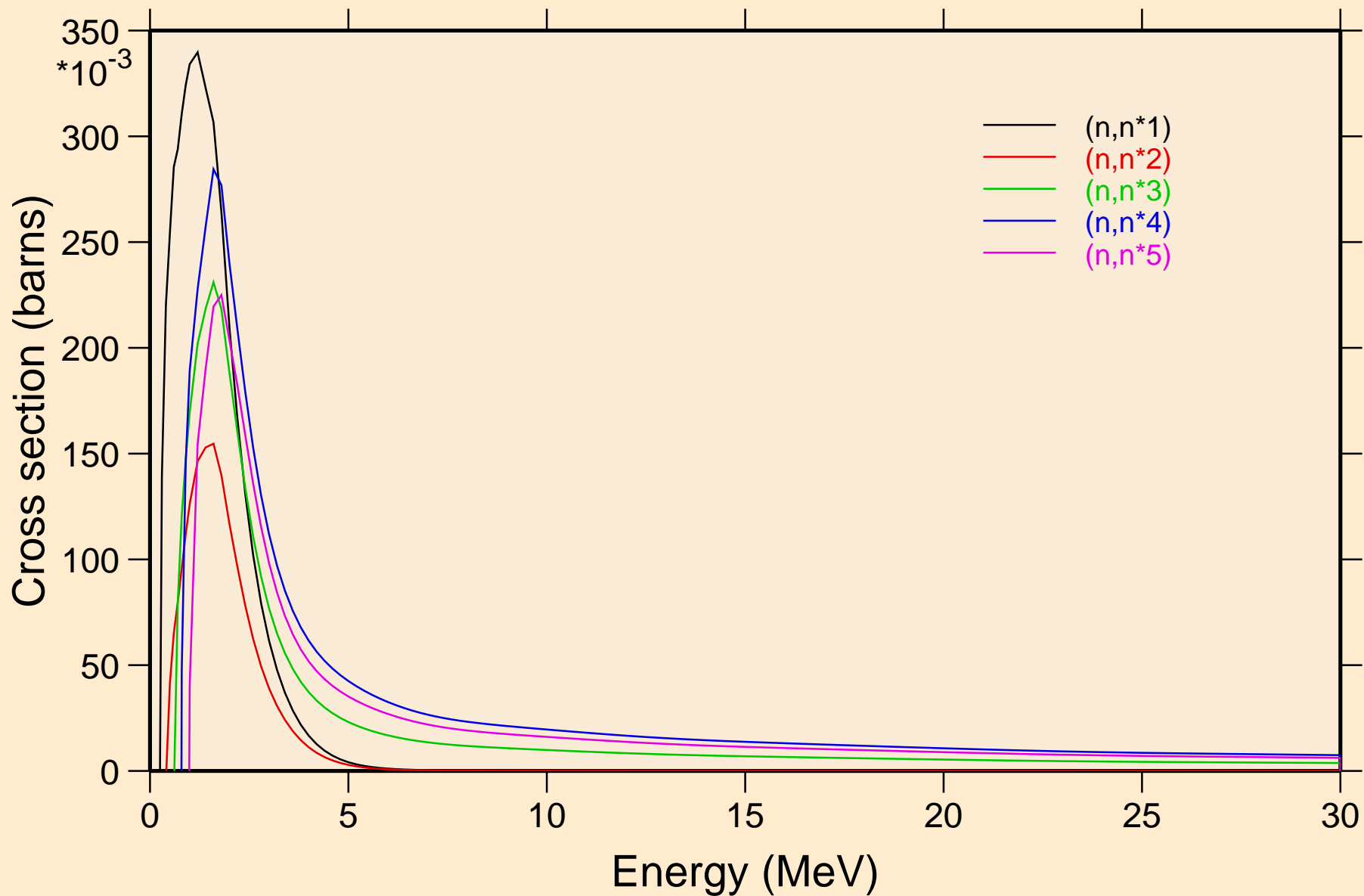


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

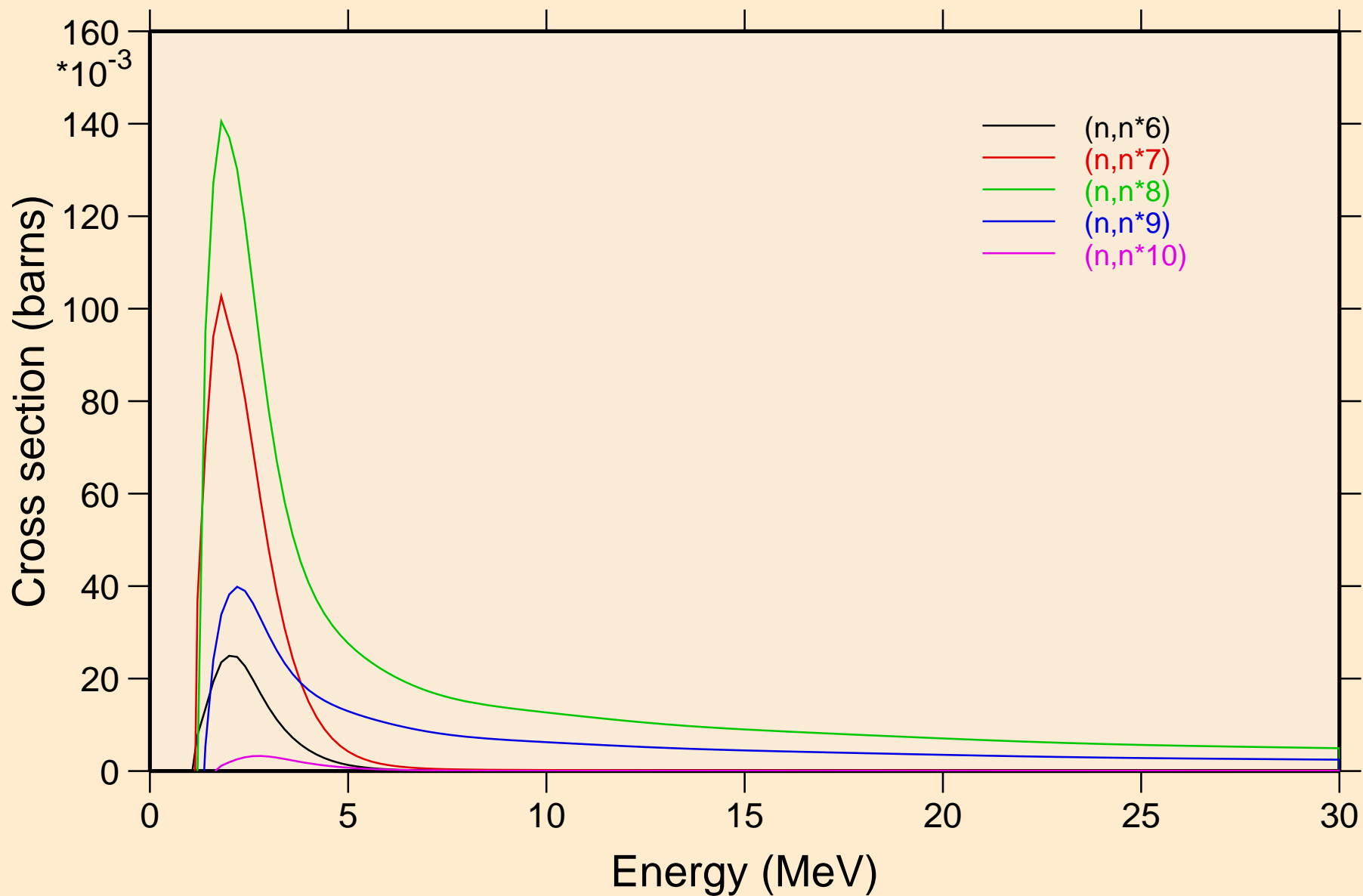




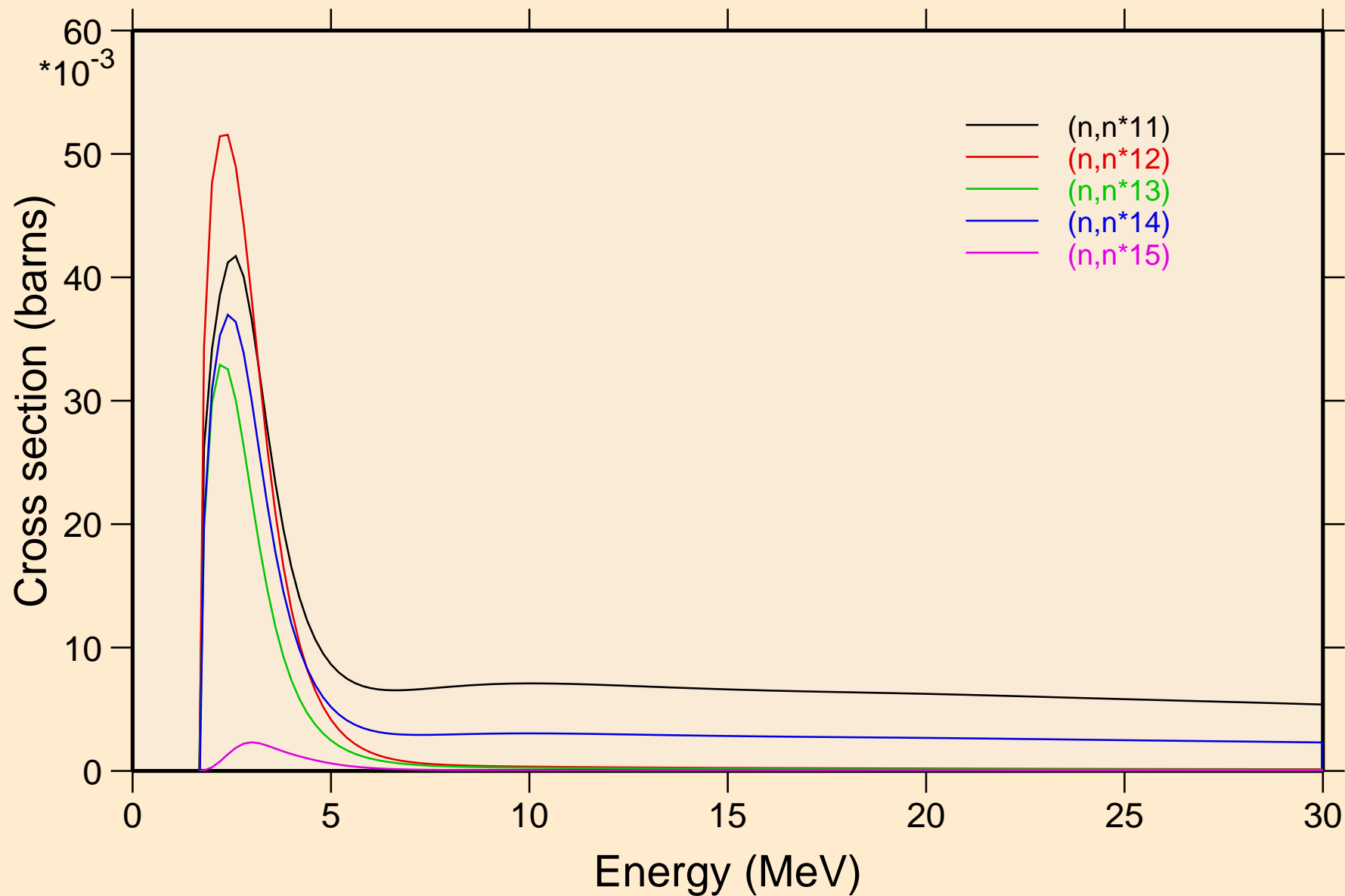
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



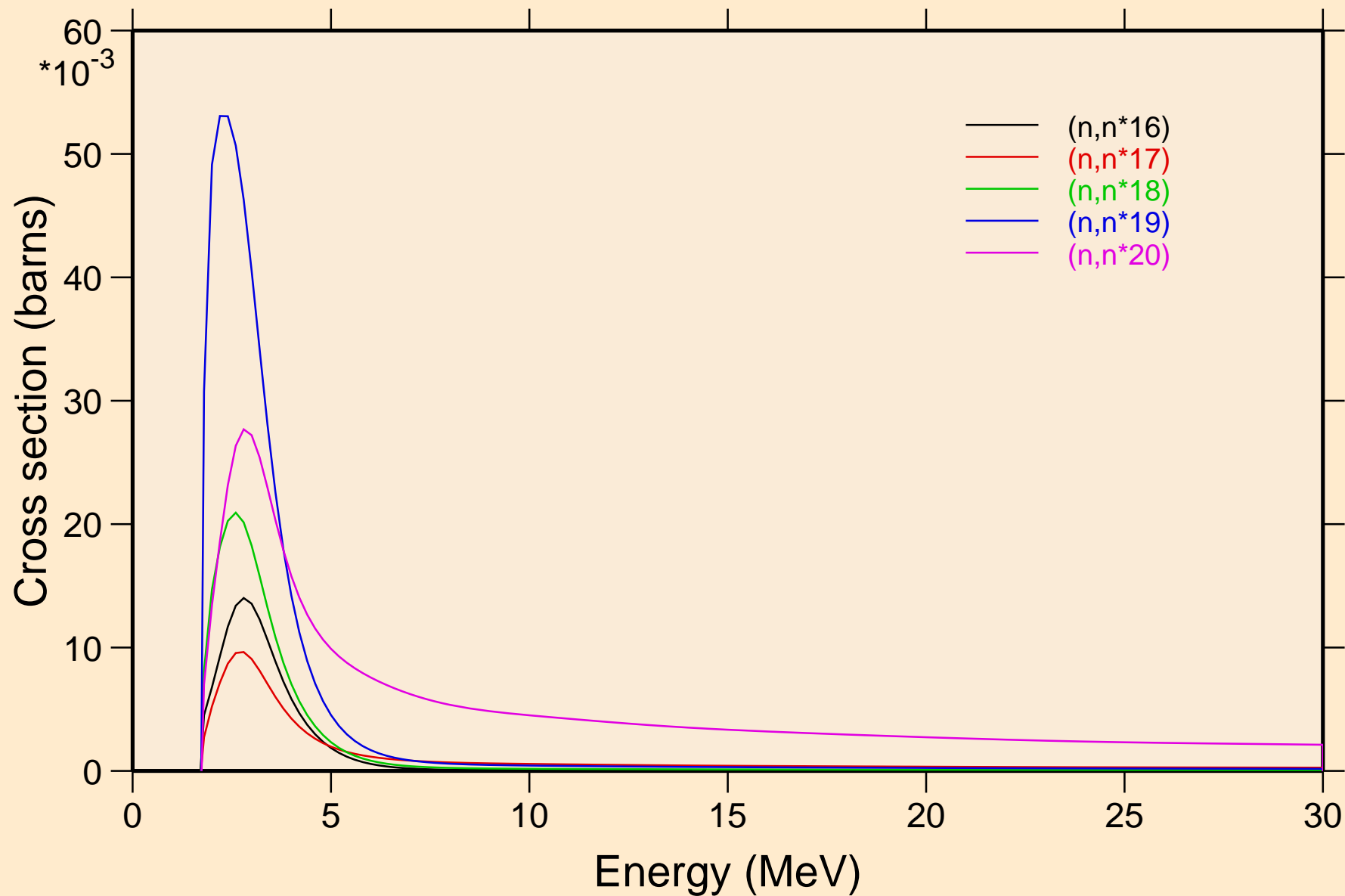
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

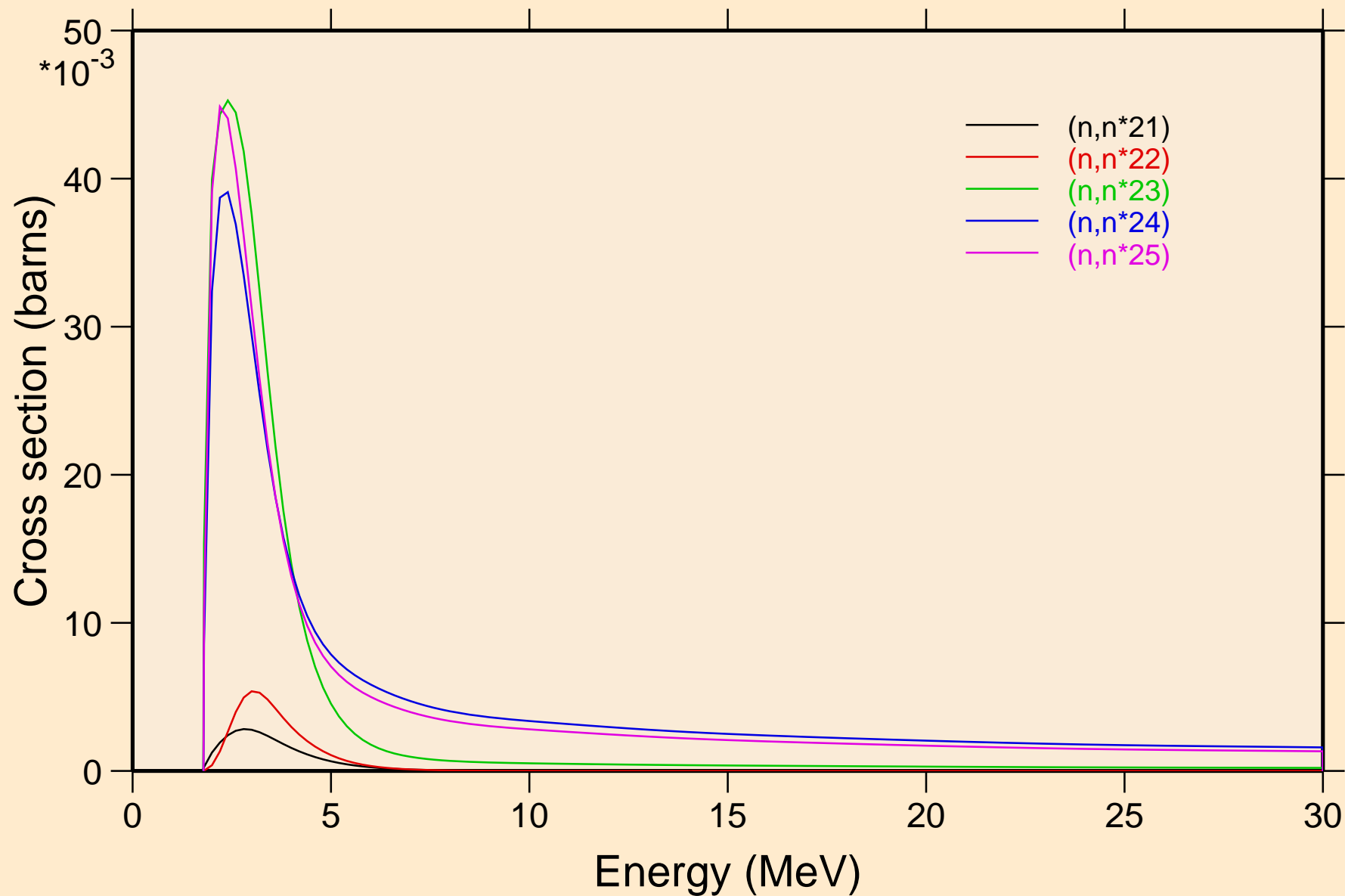


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

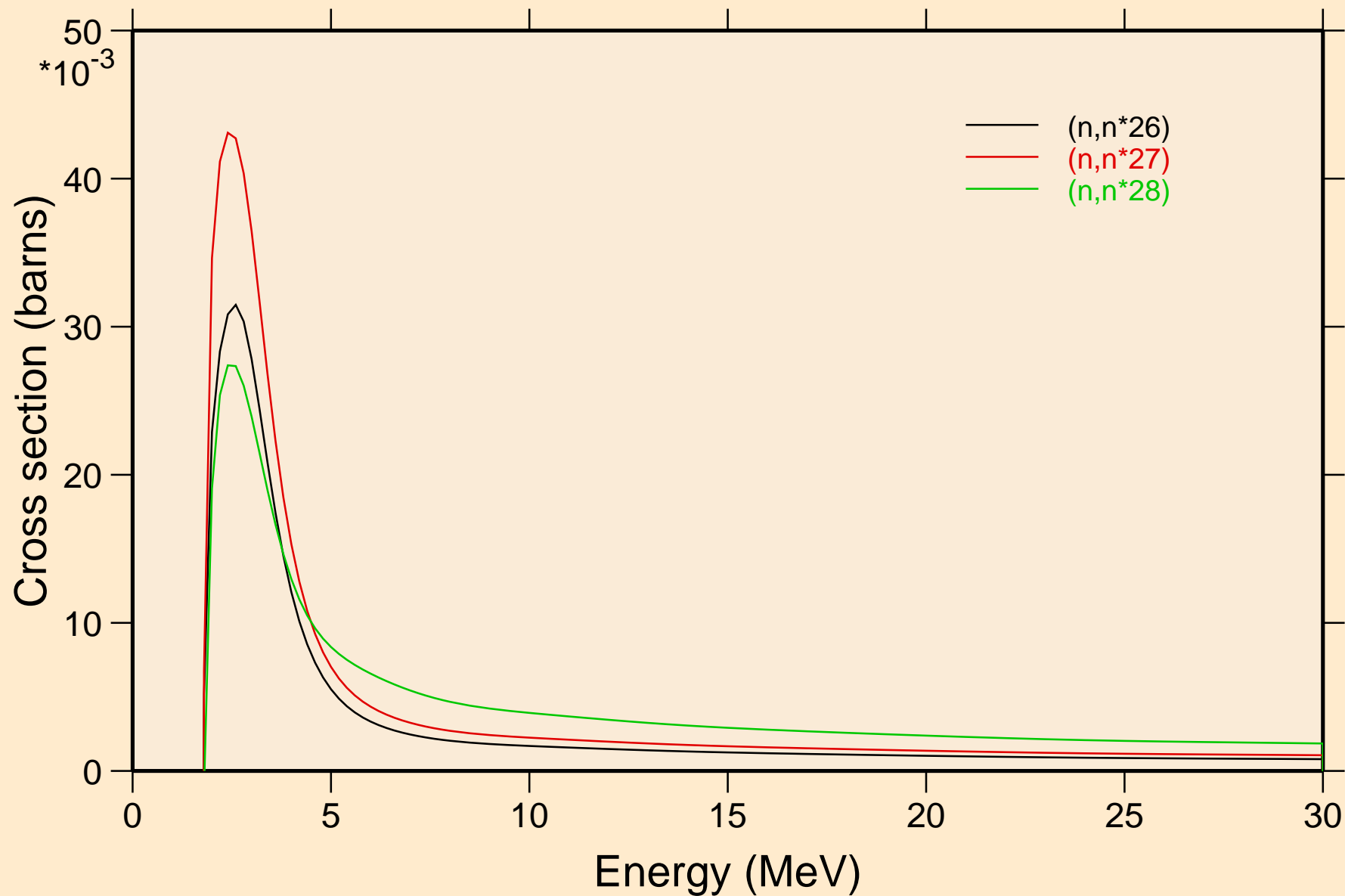


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

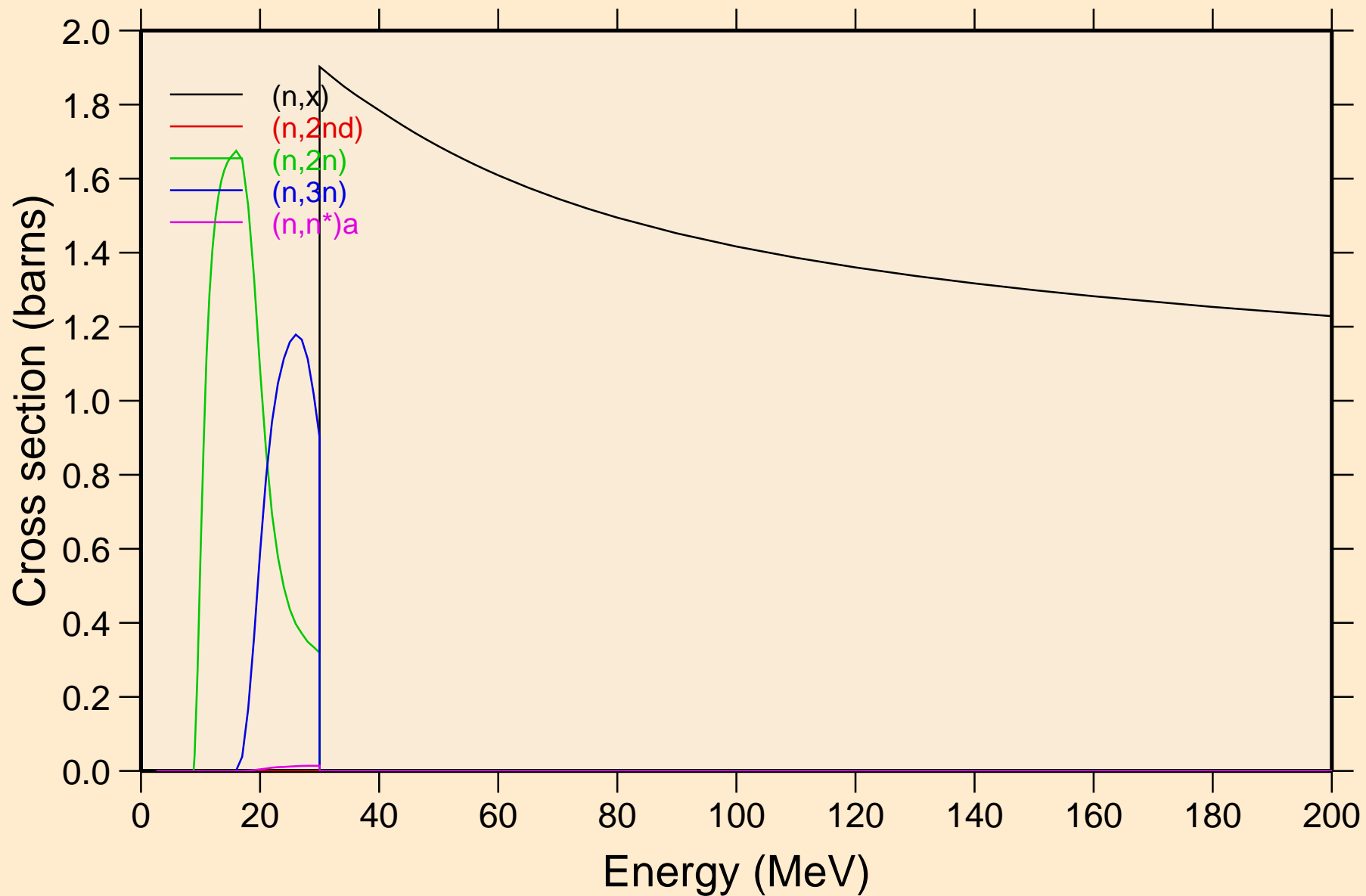
## Inelastic levels



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

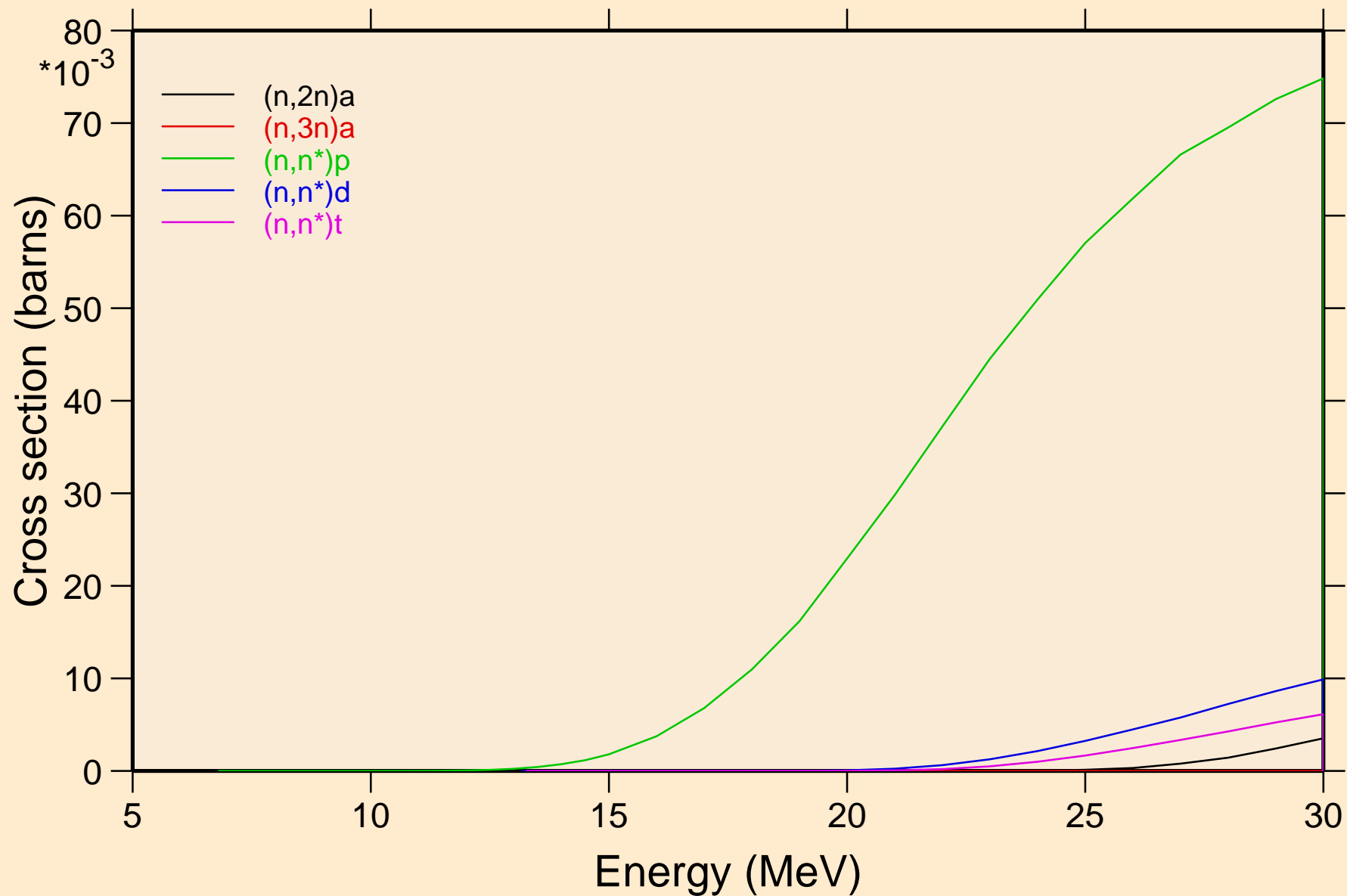


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

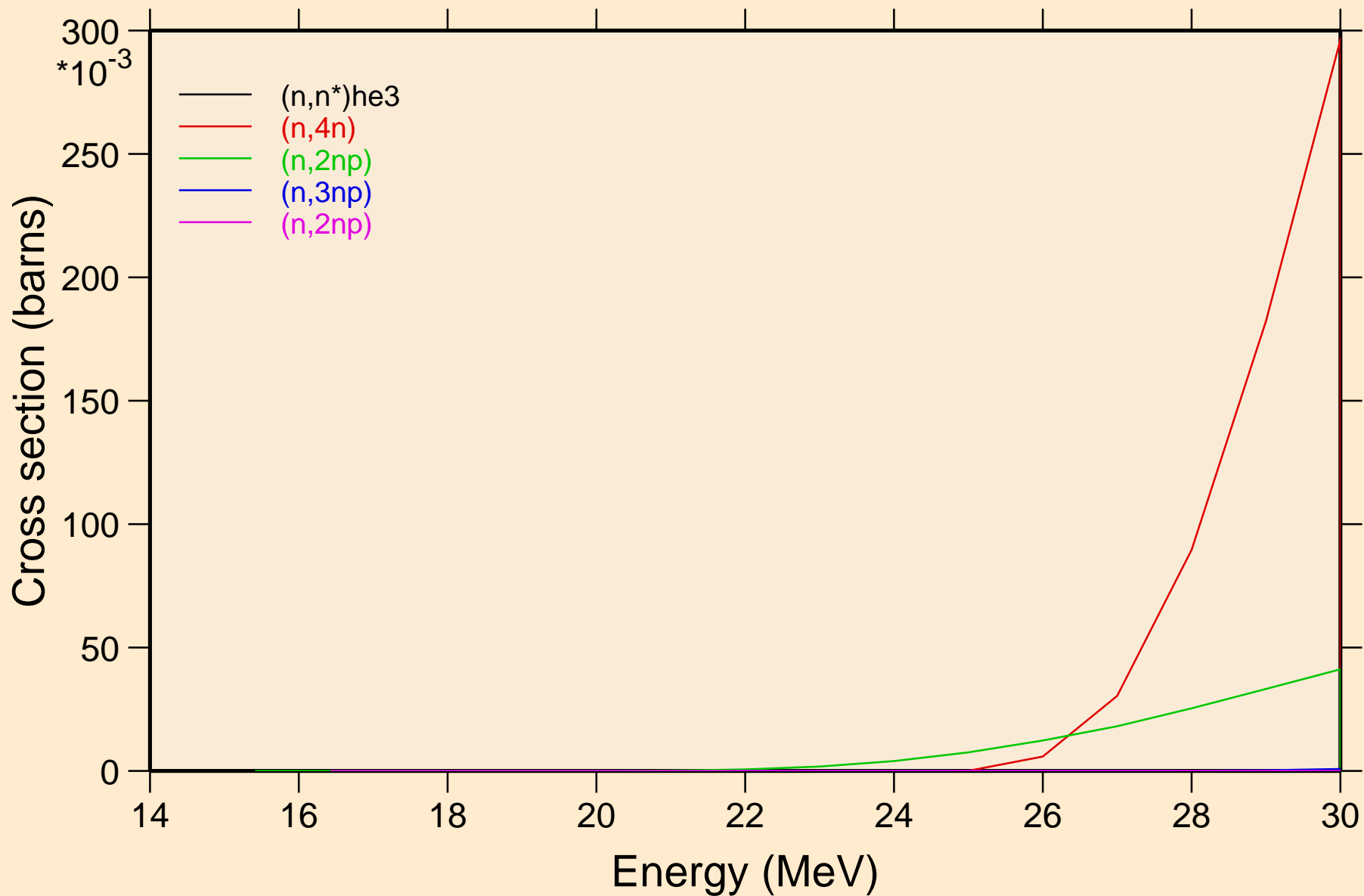
## Threshold reactions



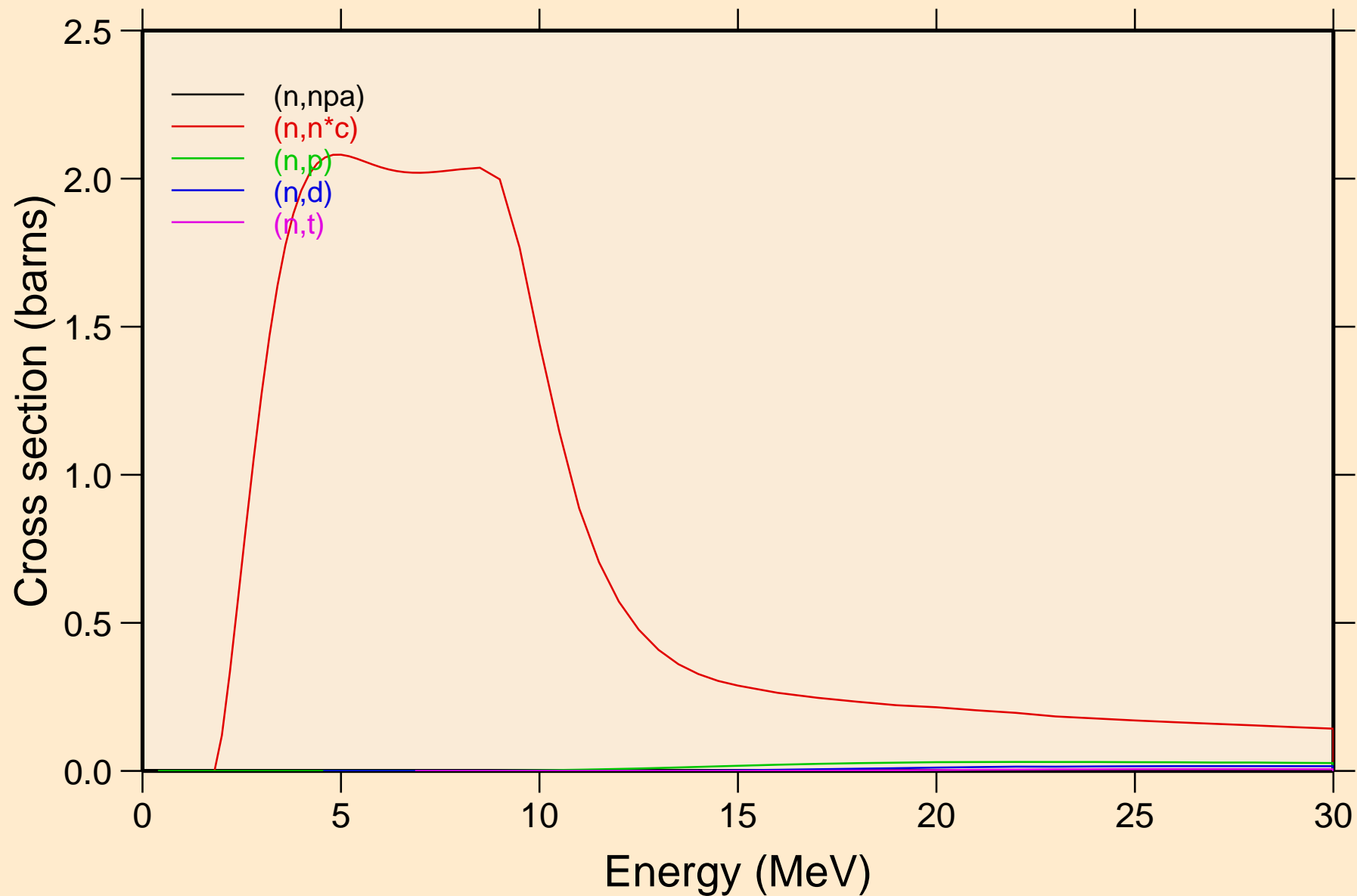


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

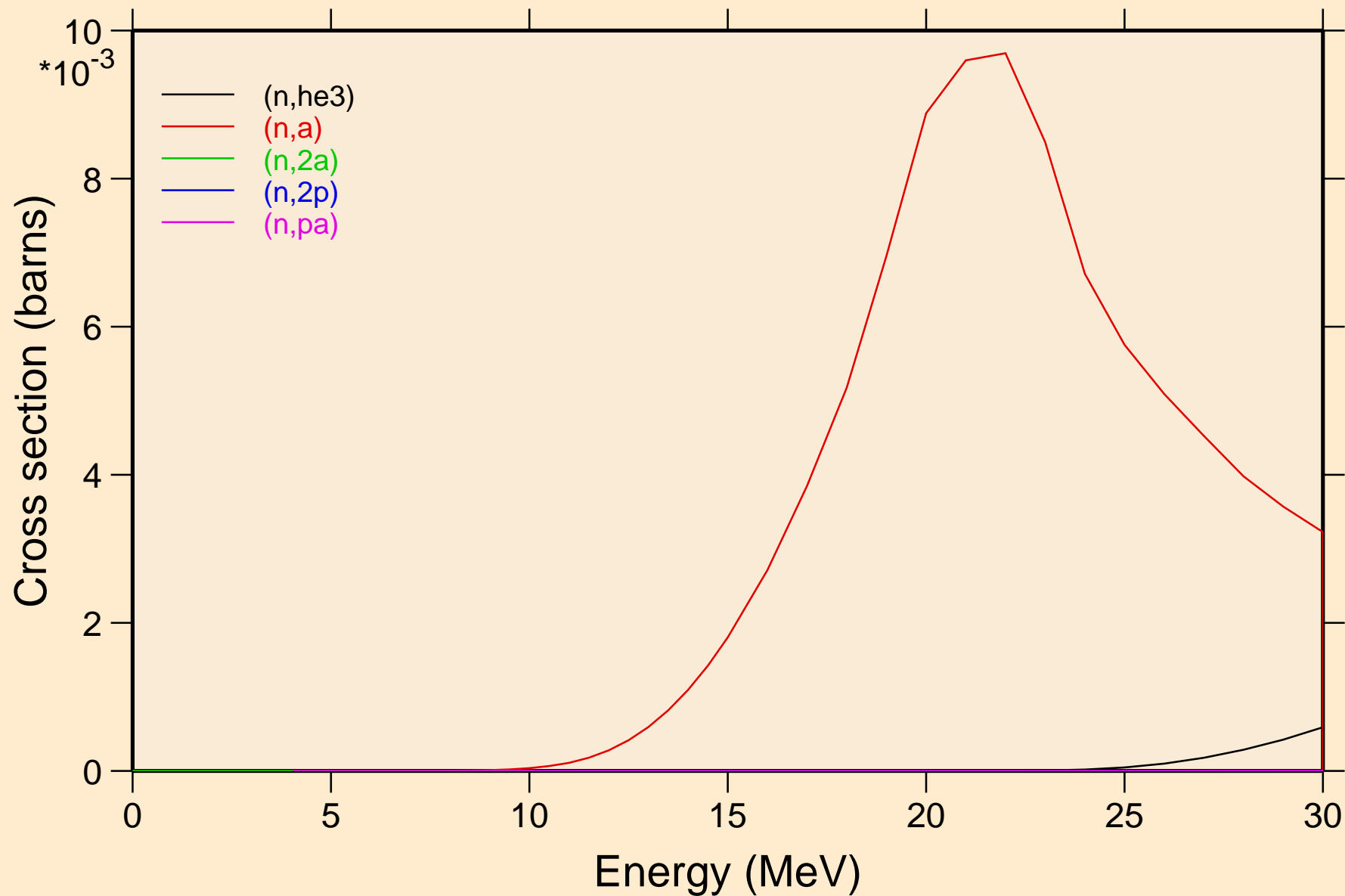


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

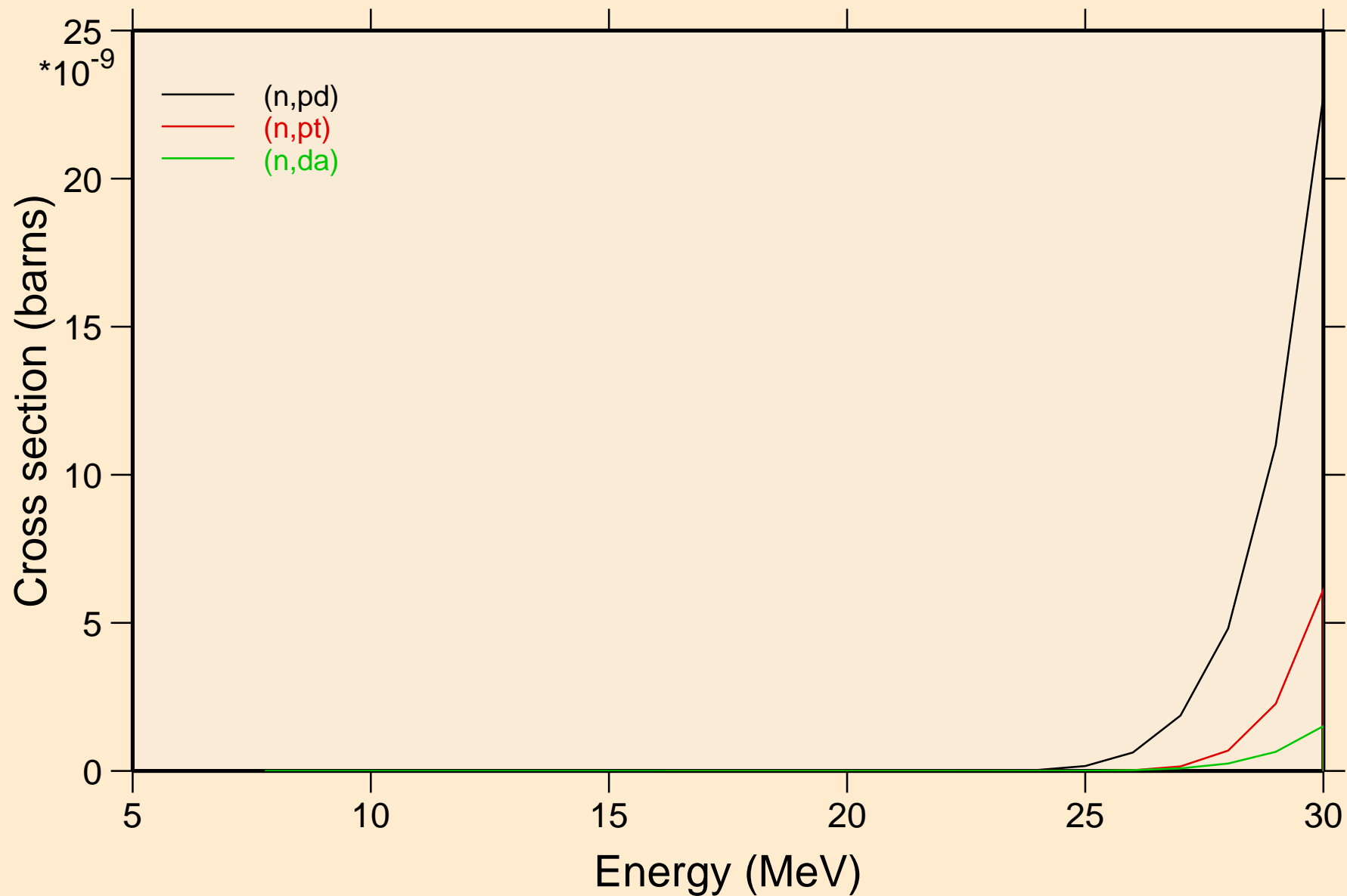


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

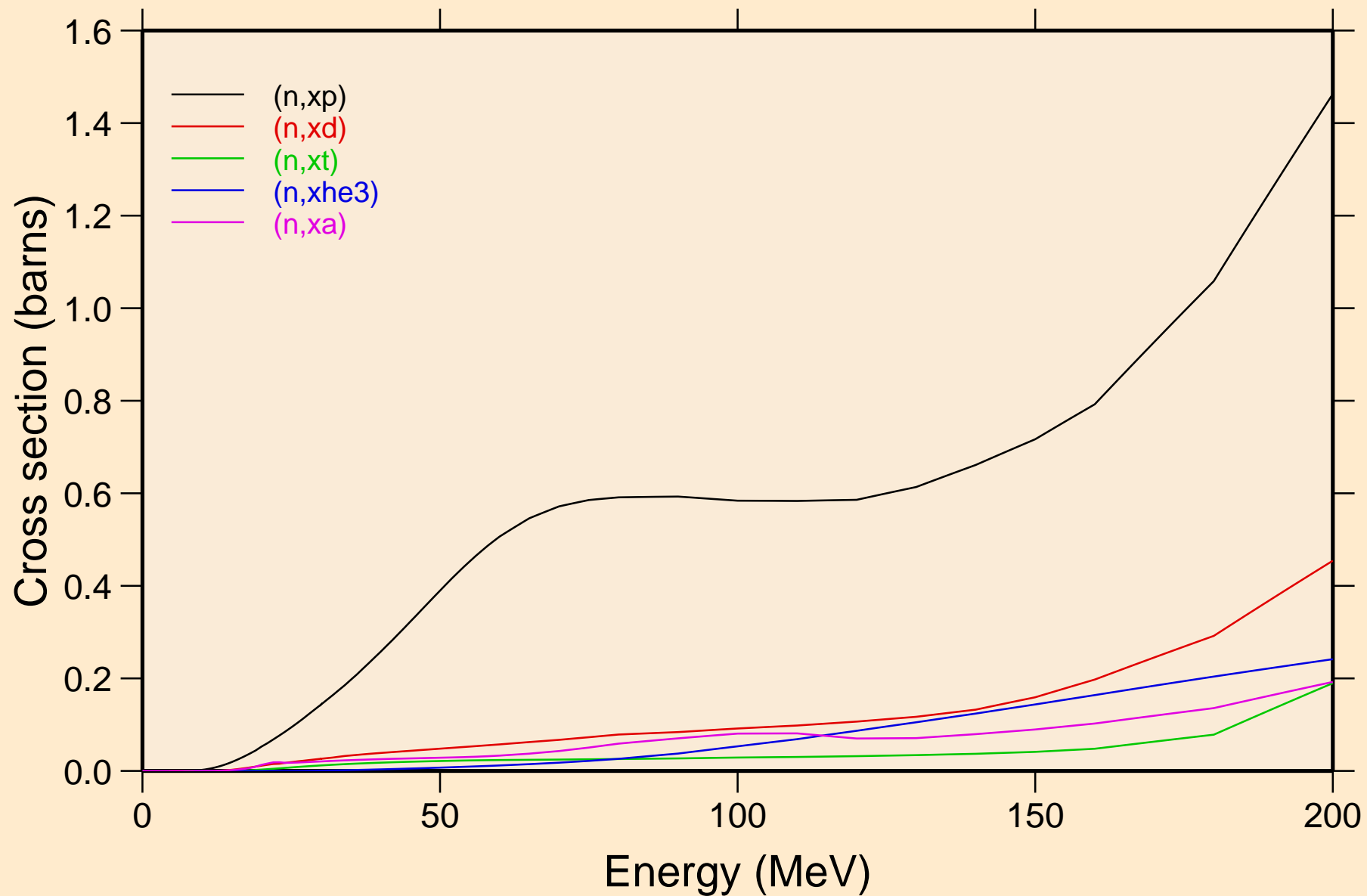


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

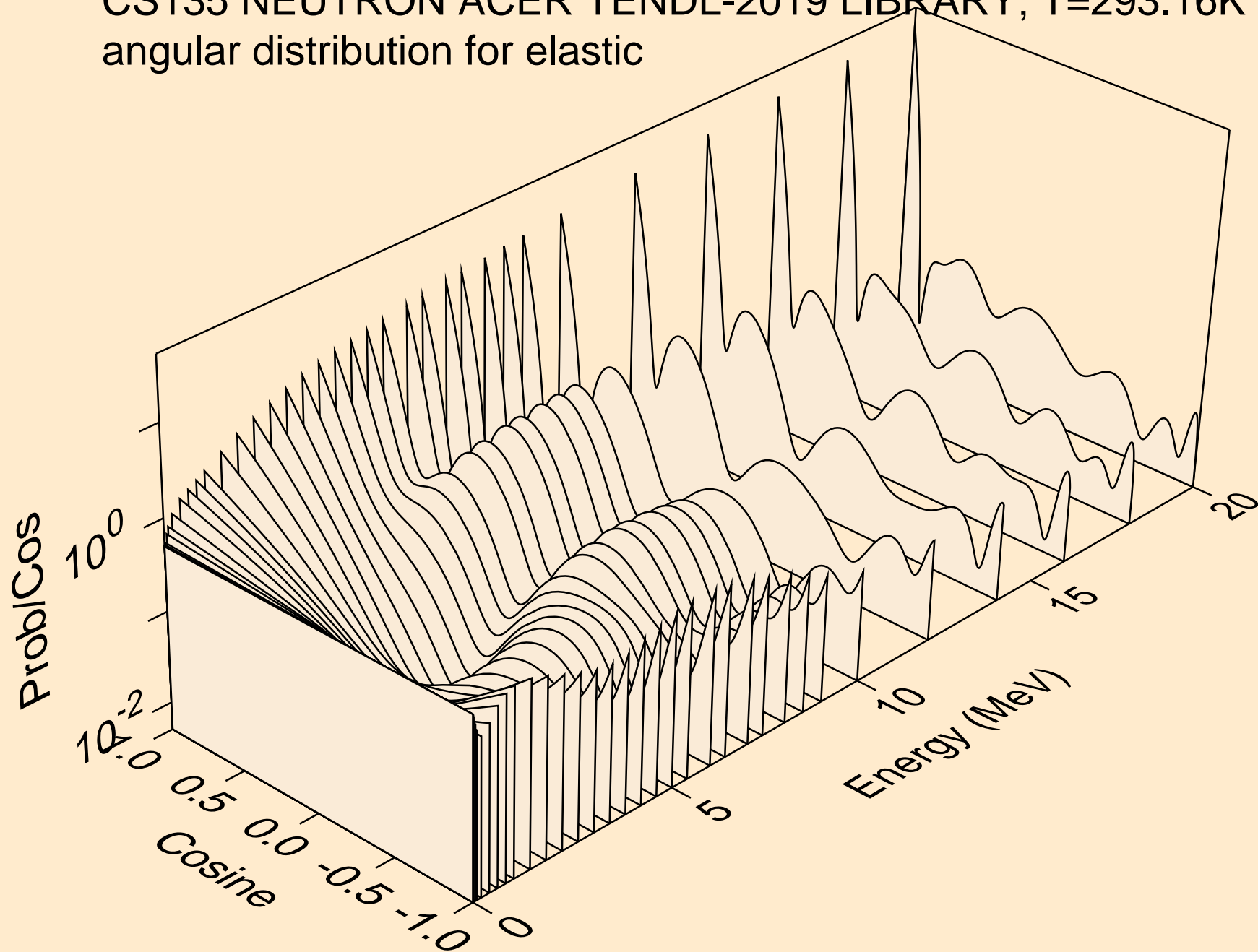


# CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

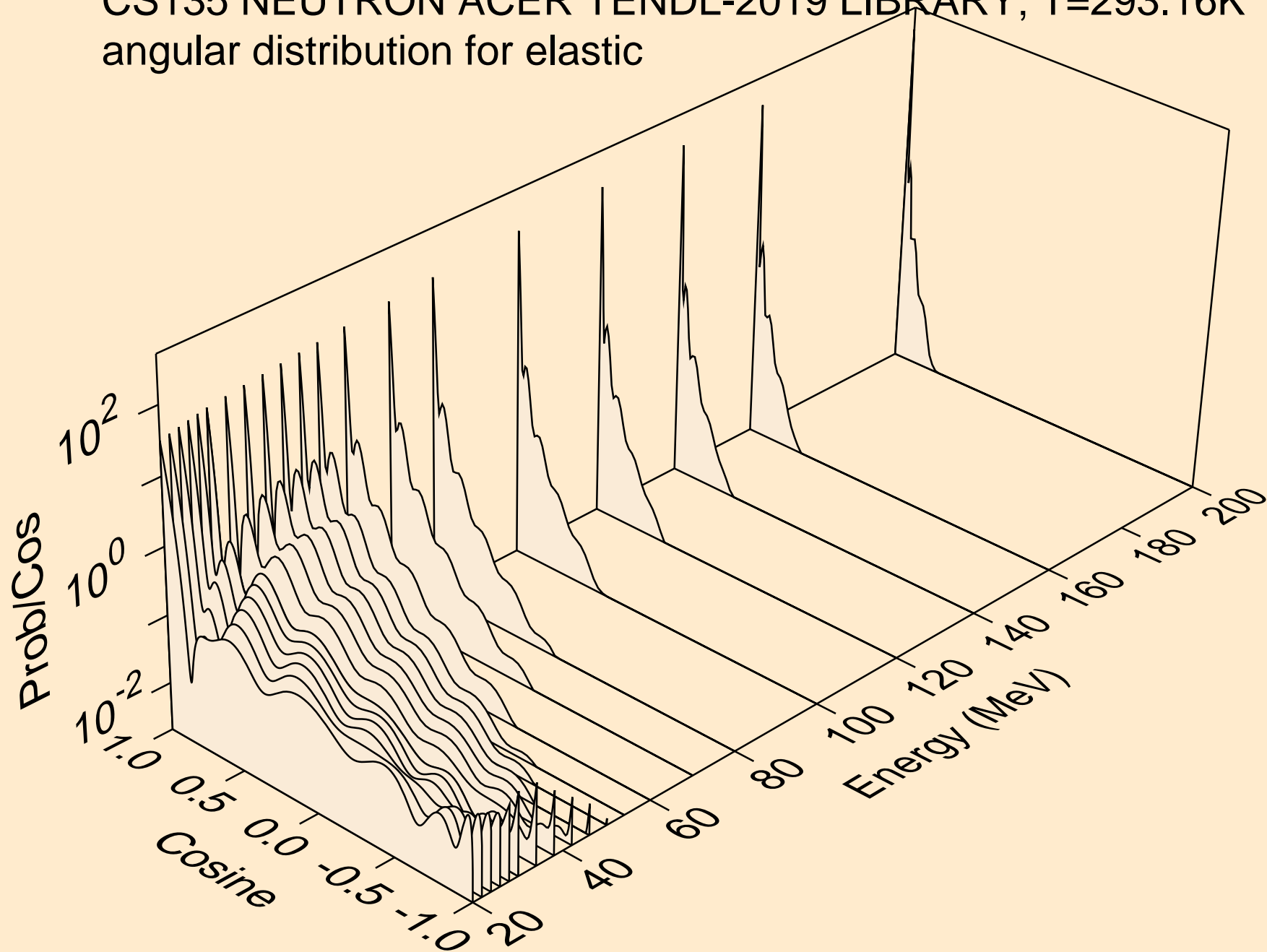
## Threshold reactions



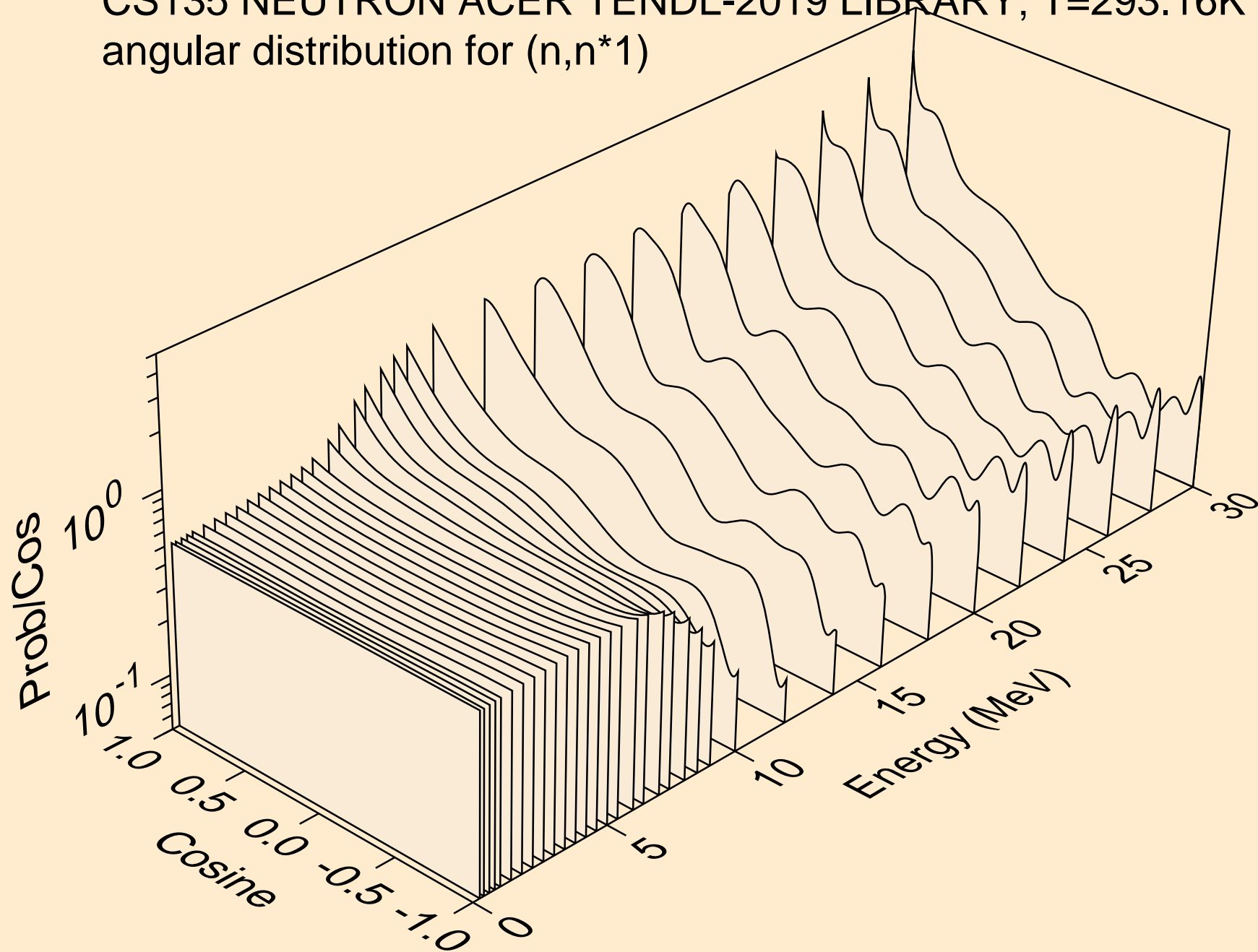
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

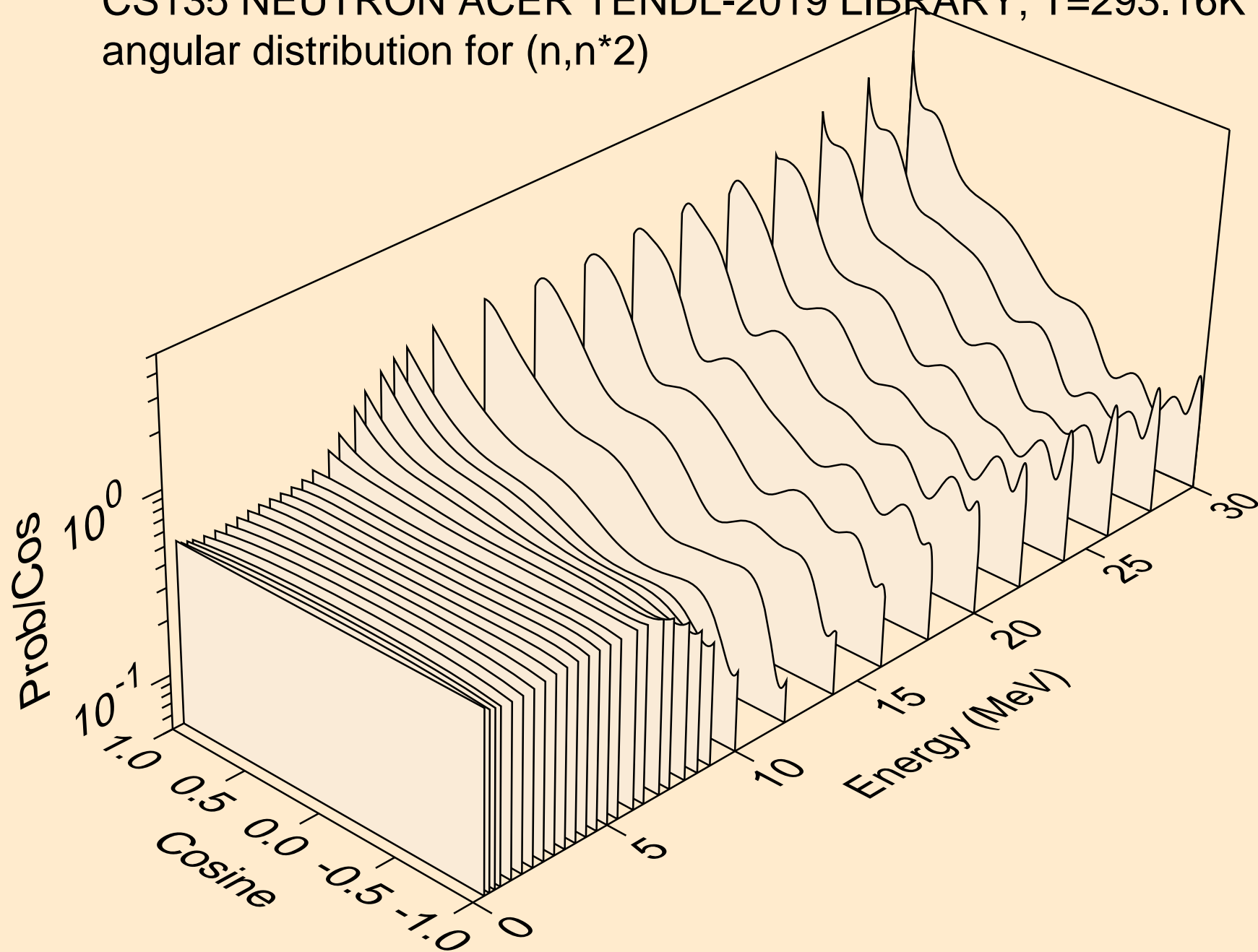


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

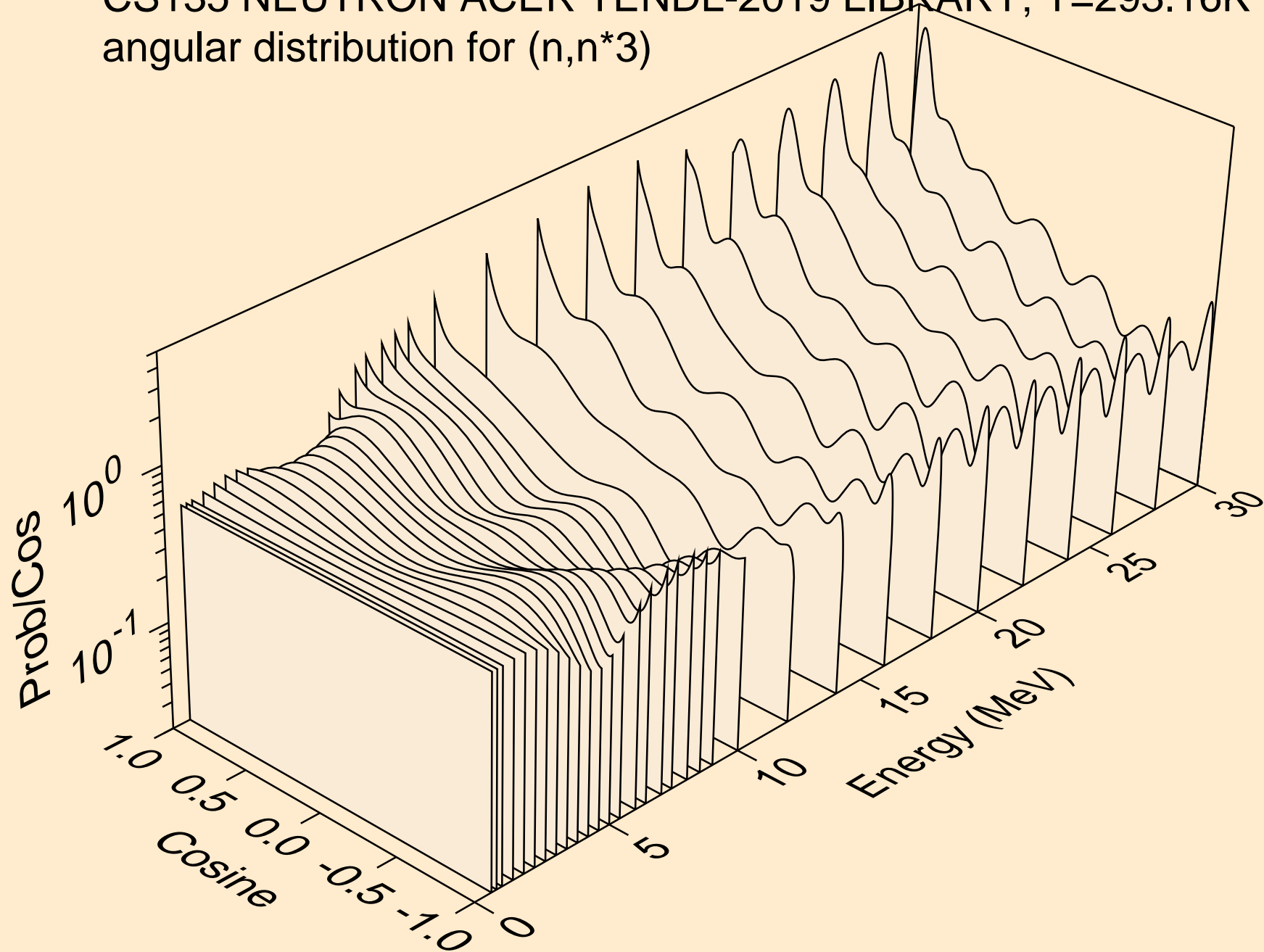




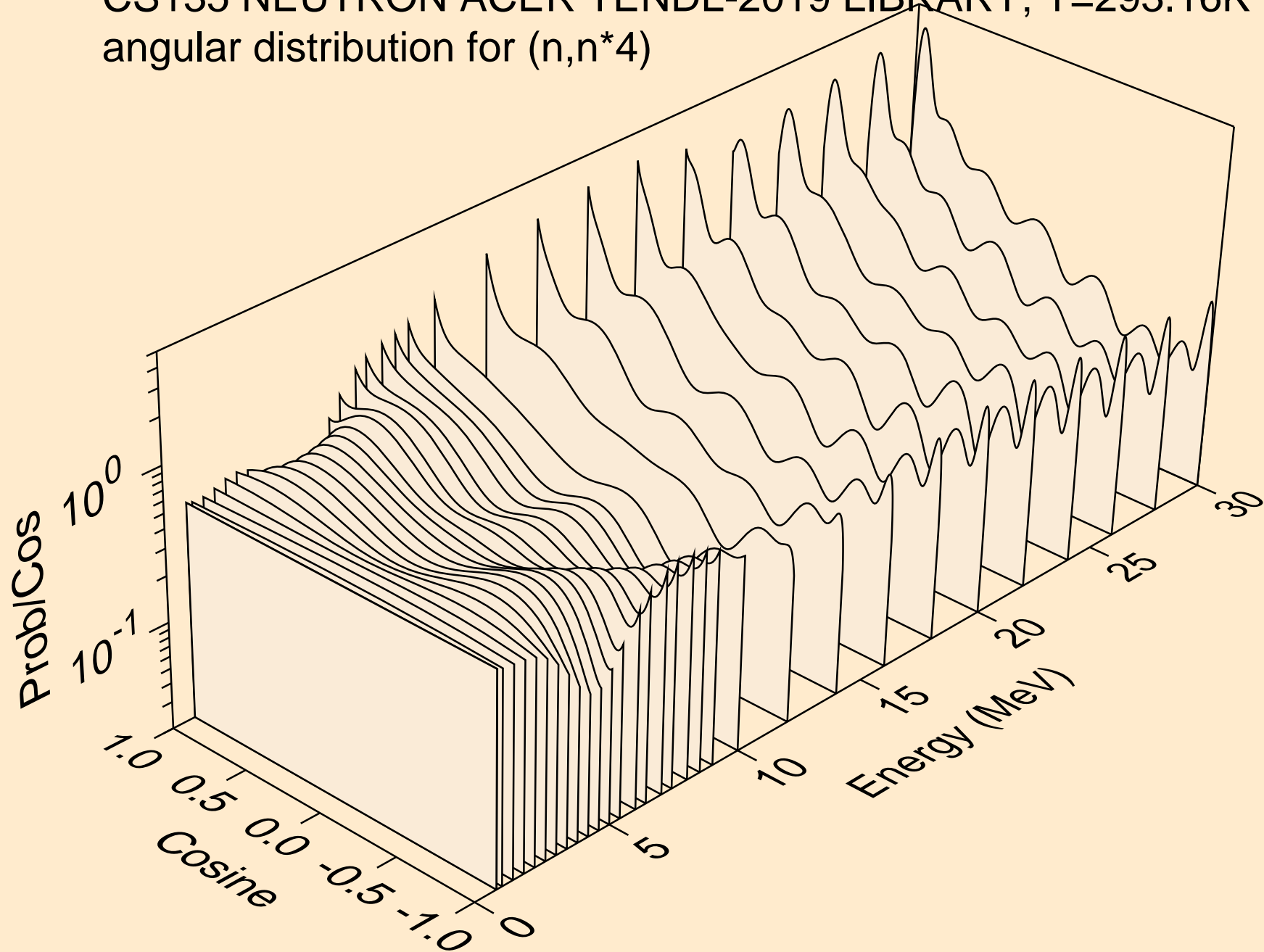
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angular distribution for (n,n\*2)



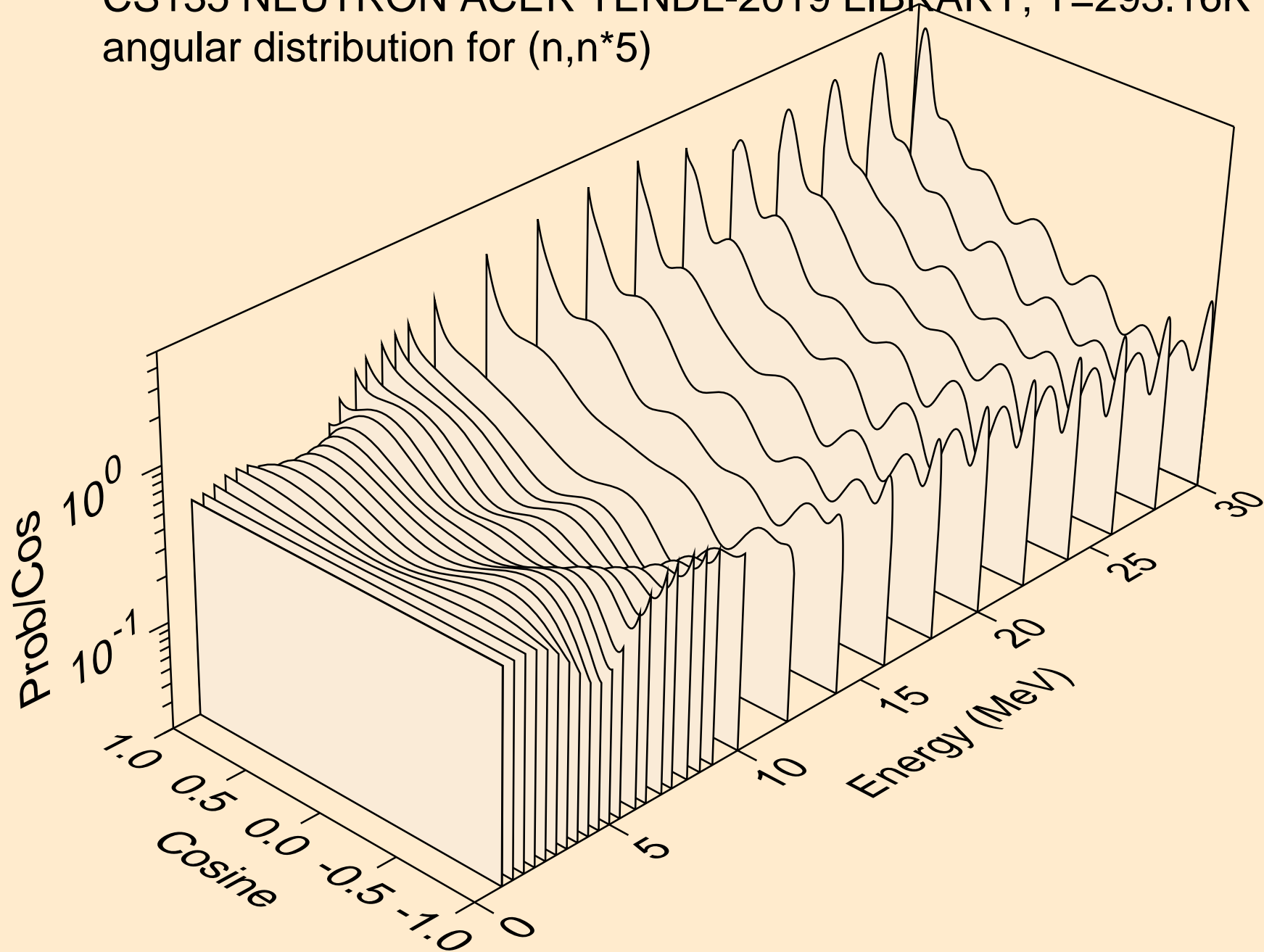
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angular distribution for (n,n\*3)



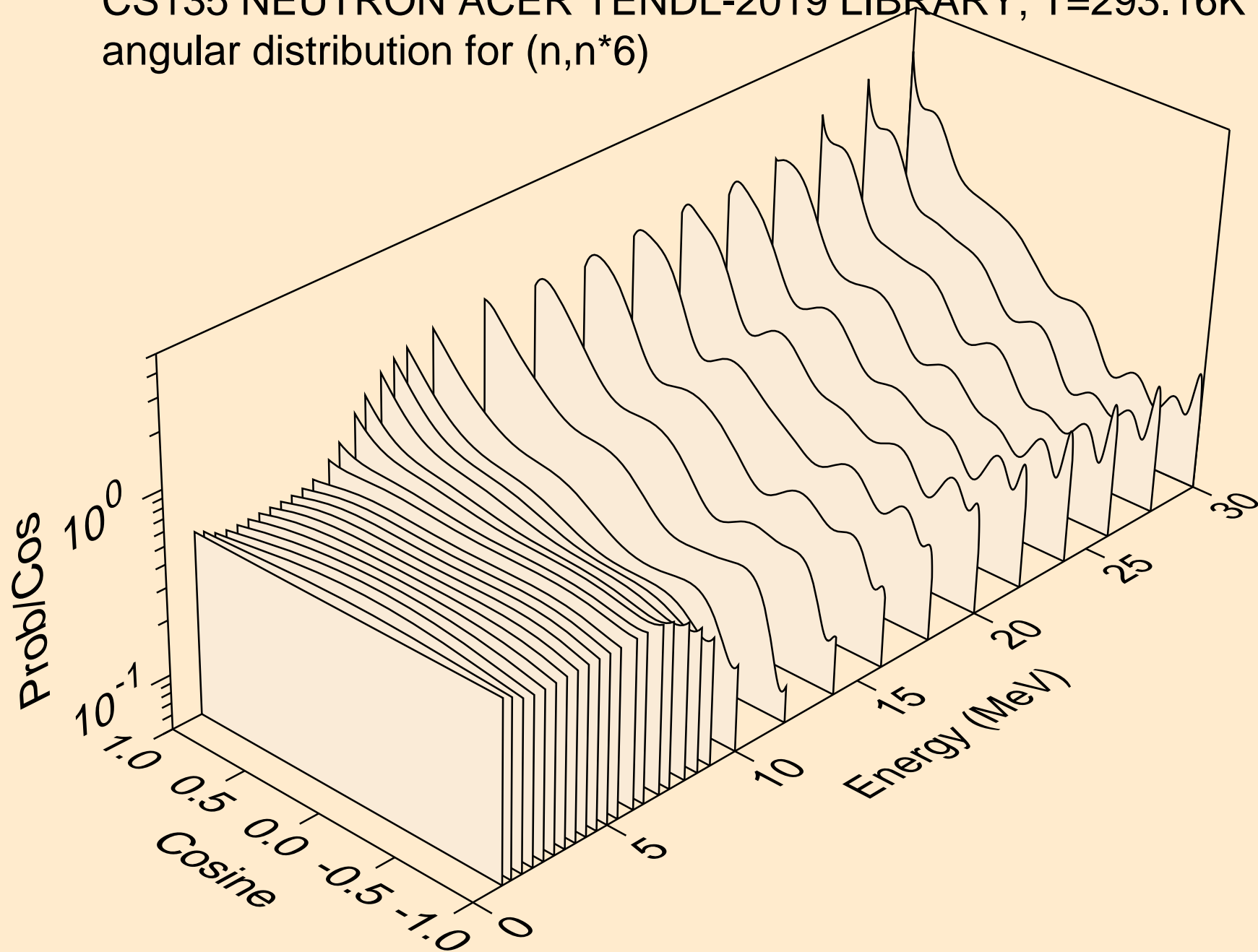
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angular distribution for (n,n\*4)



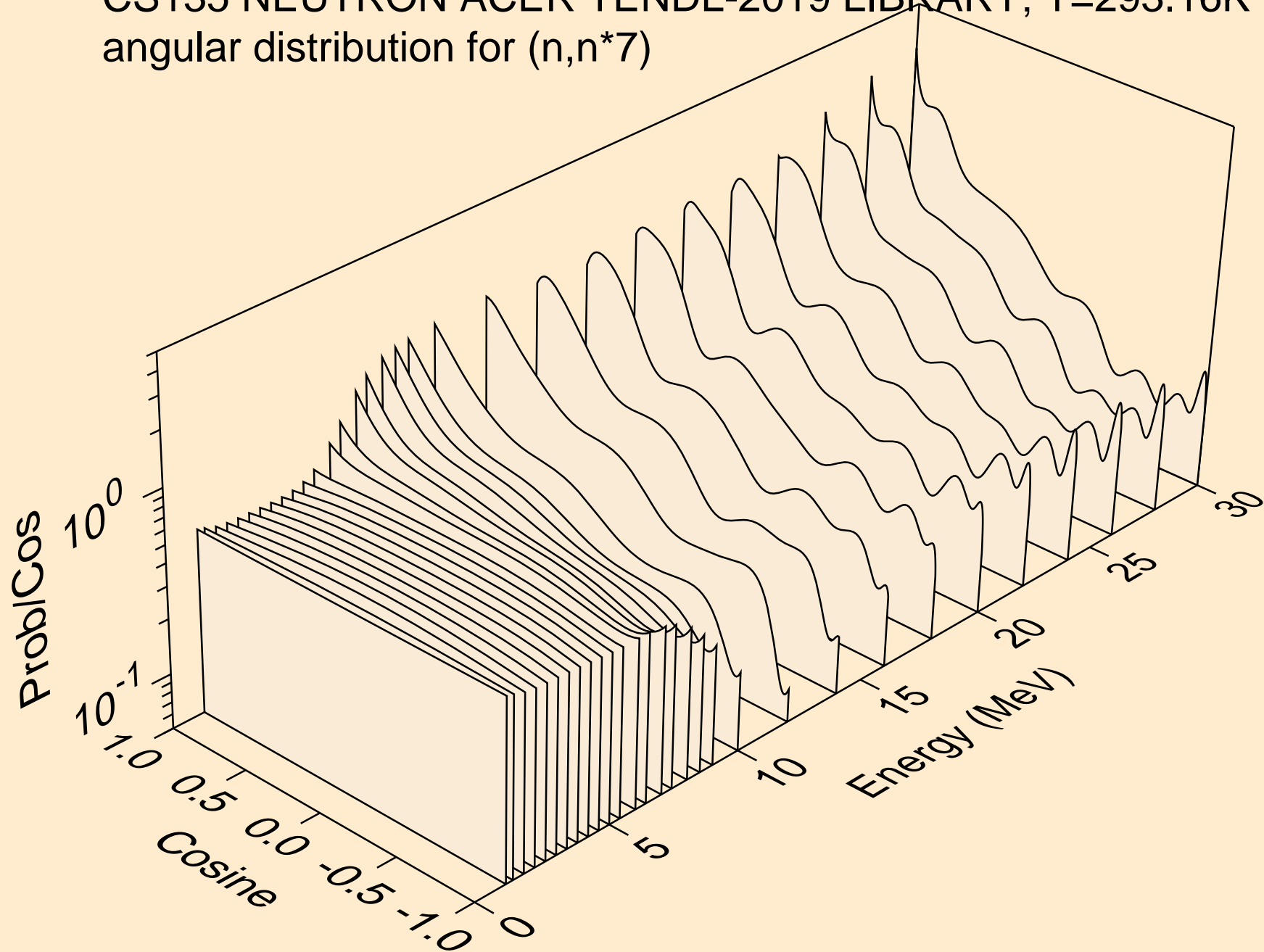
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angular distribution for (n,n\*5)



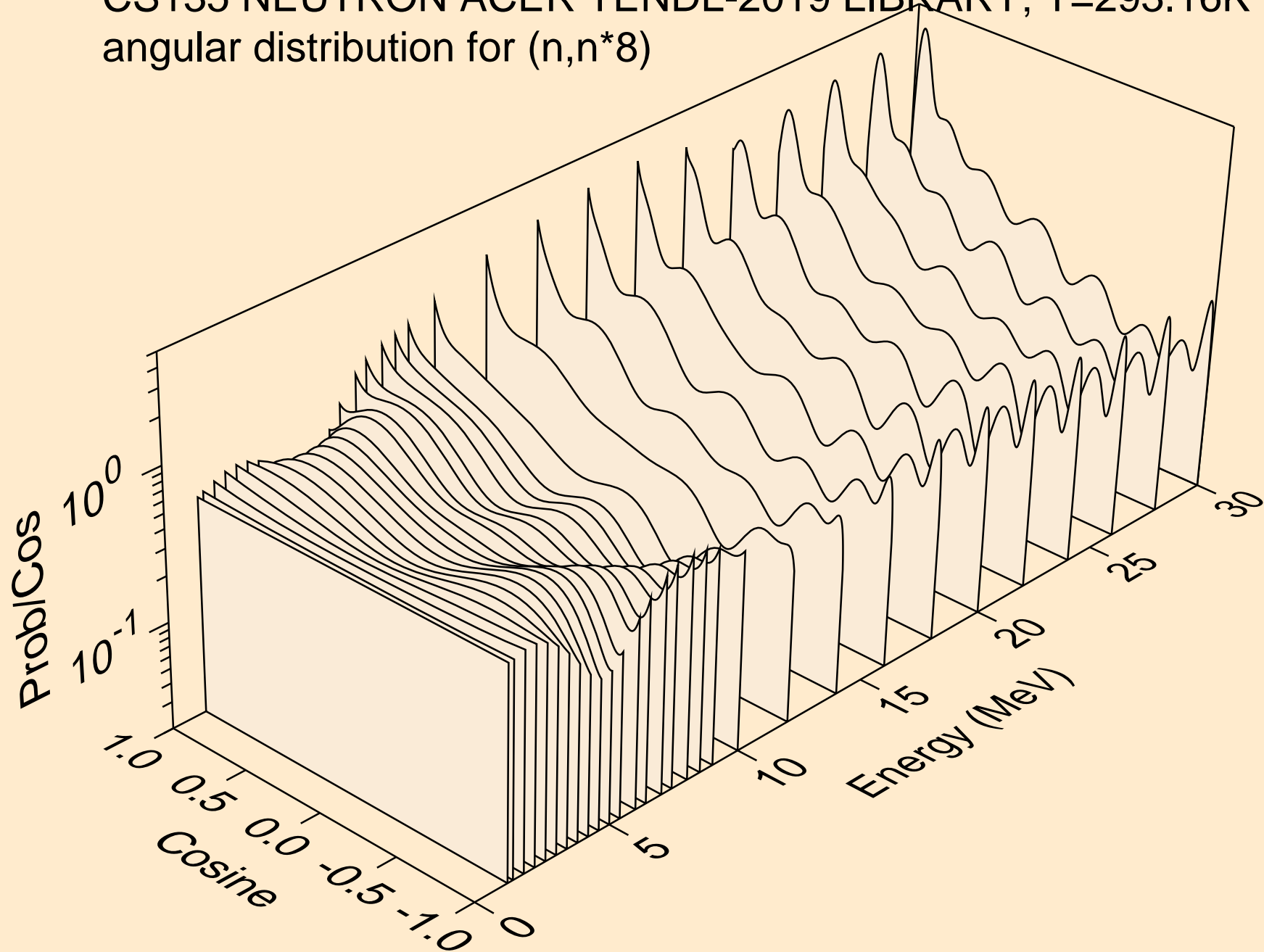
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angular distribution for (n,n\*6)



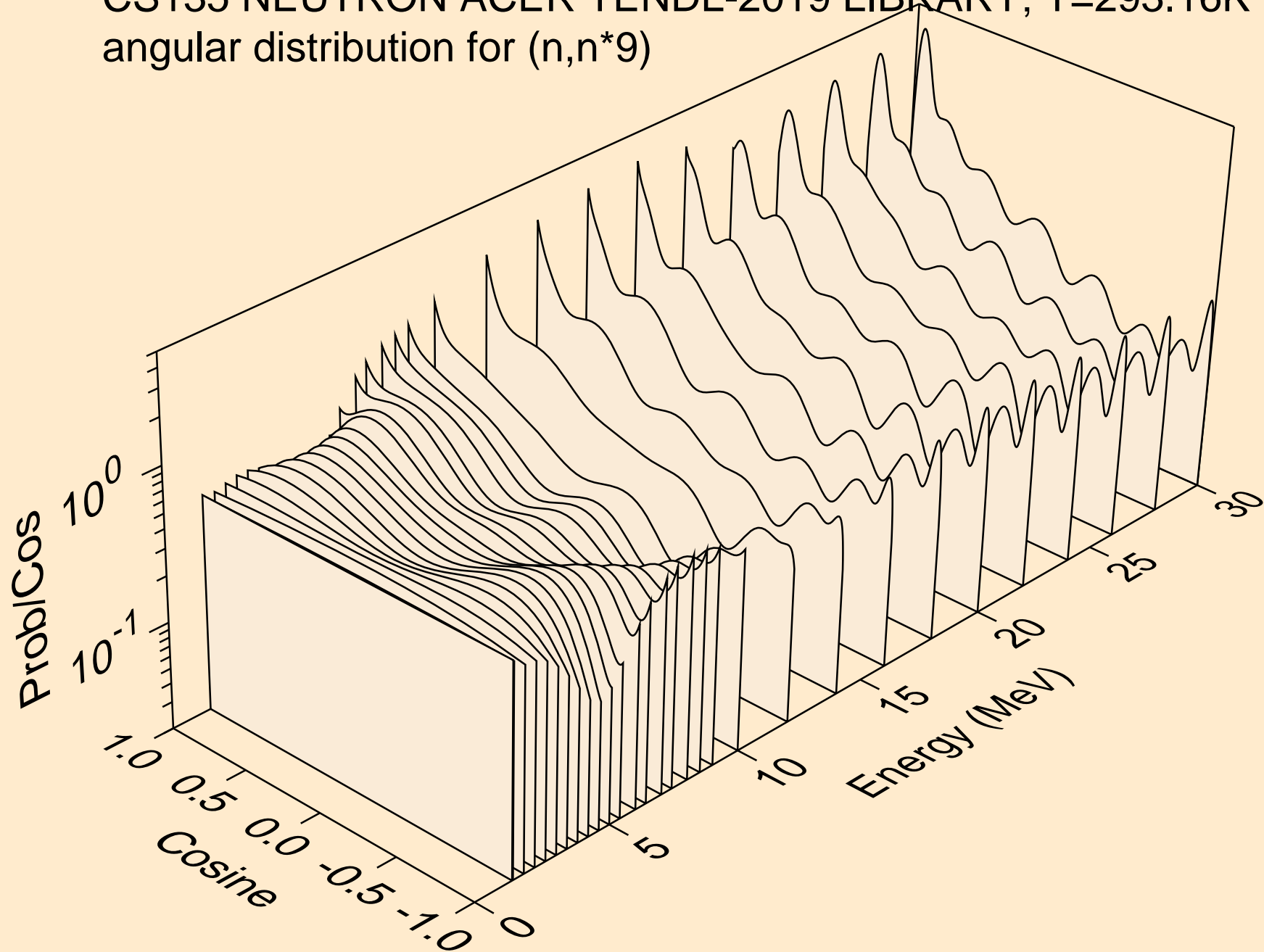
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*7)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

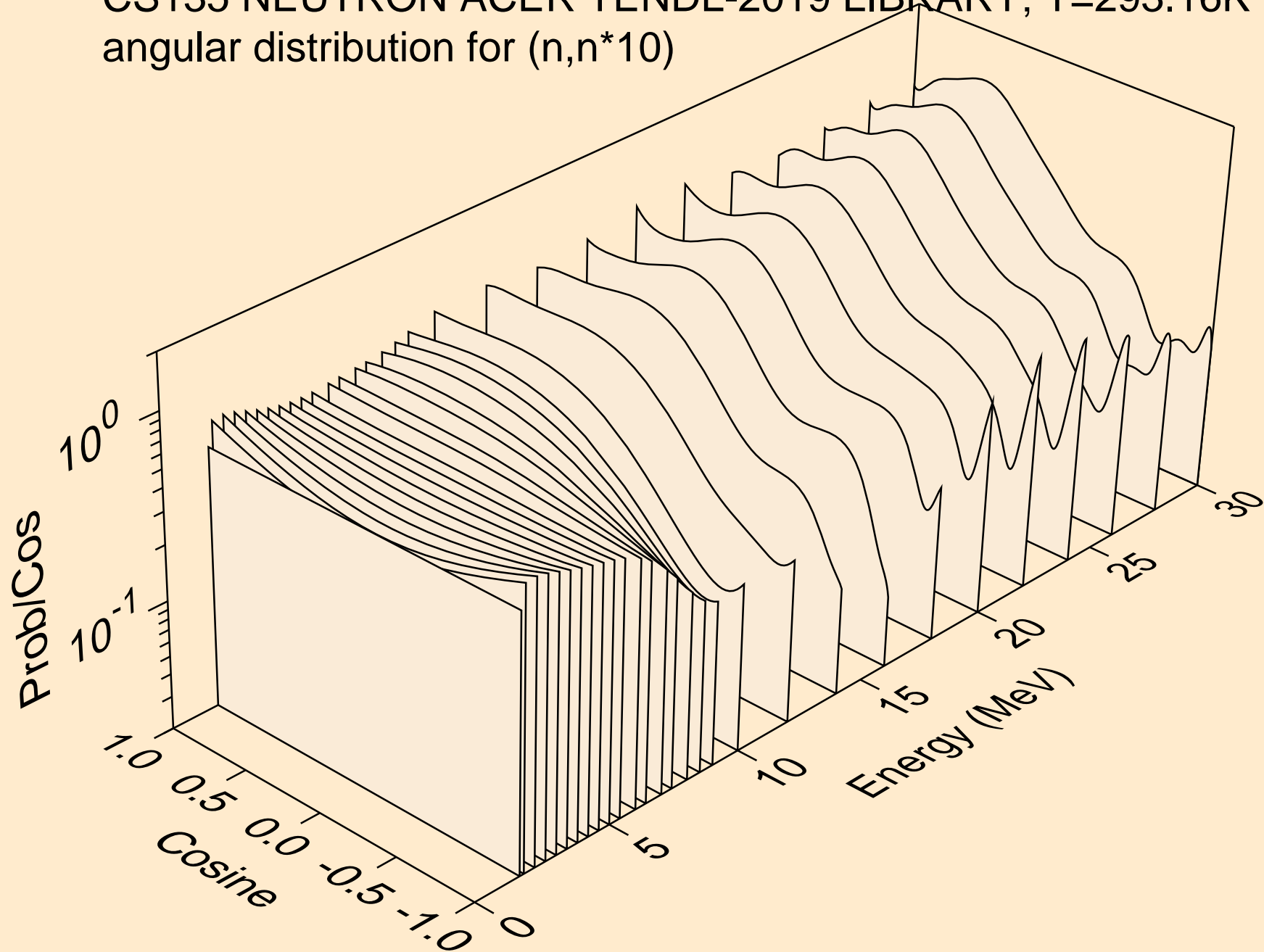


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*9)

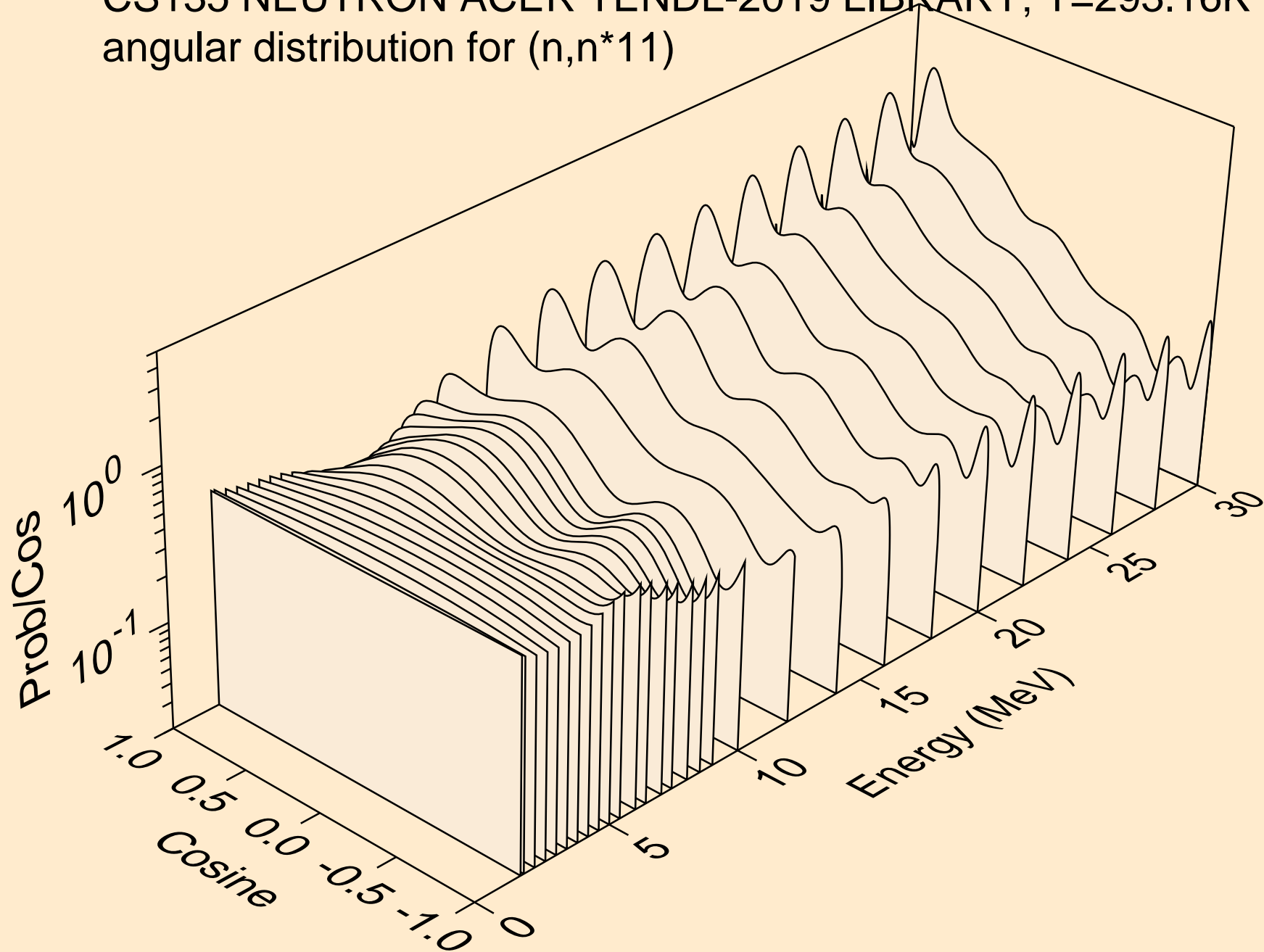




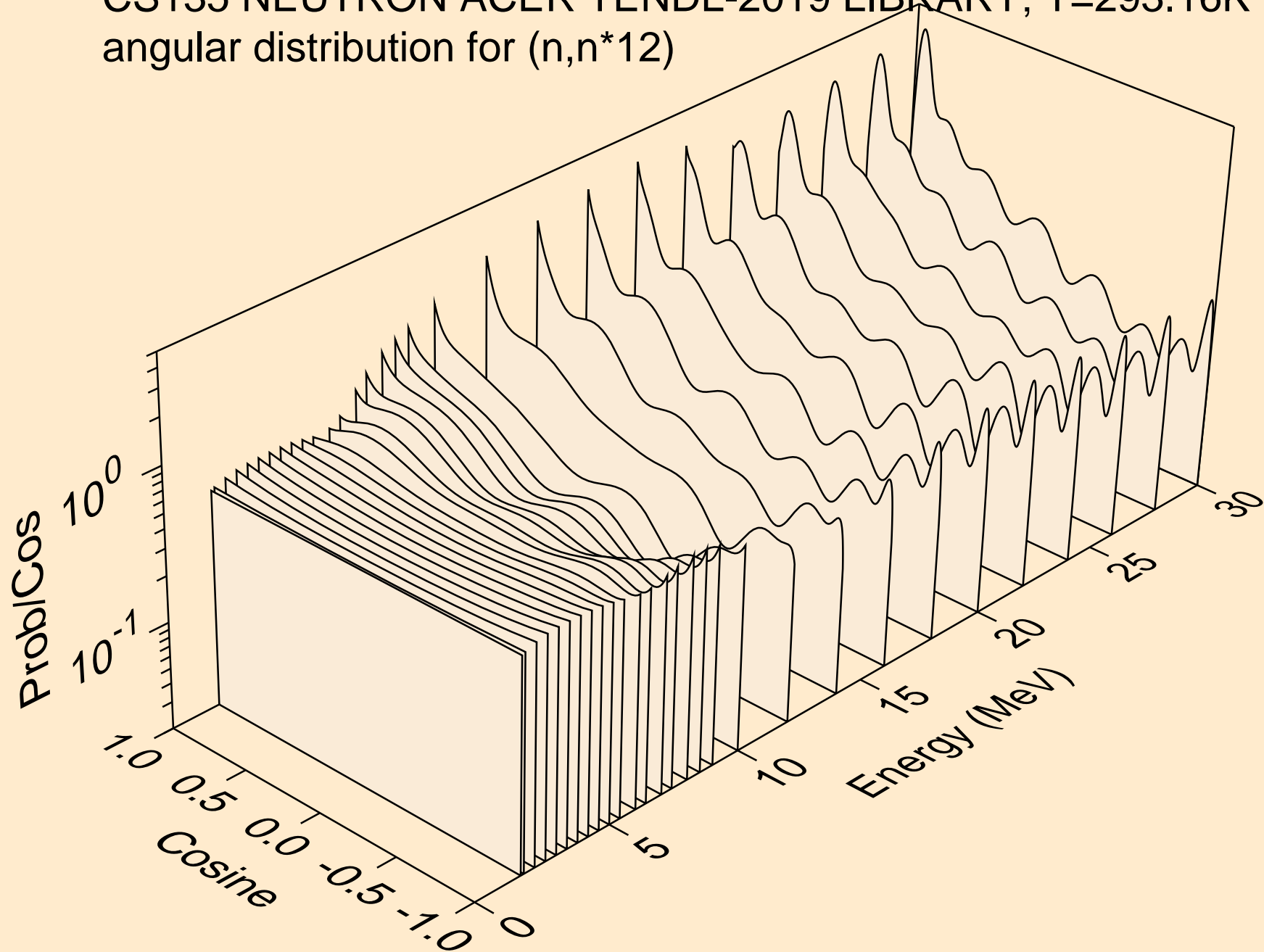
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angular distribution for (n,n\*10)



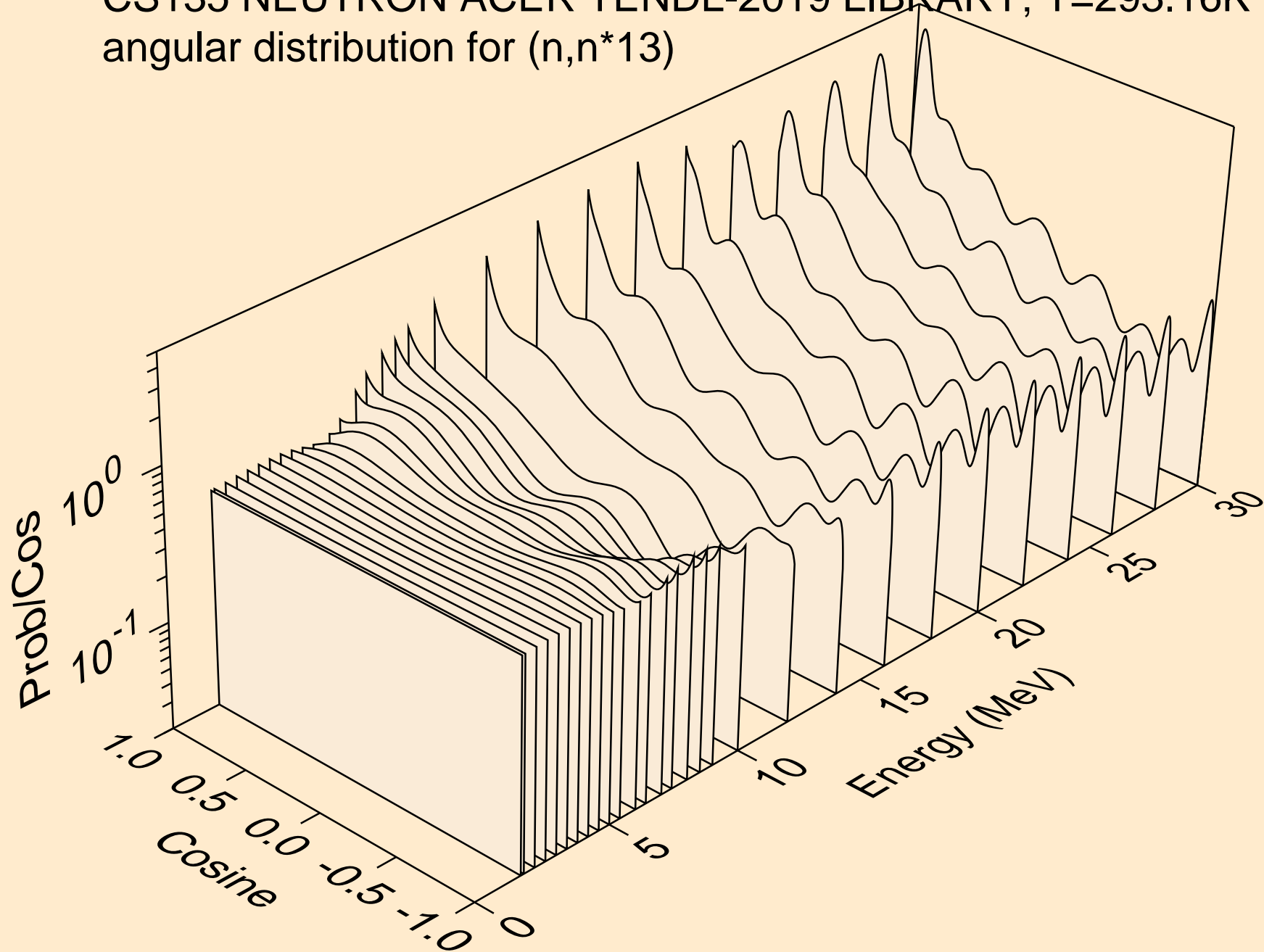
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angular distribution for (n,n\*11)



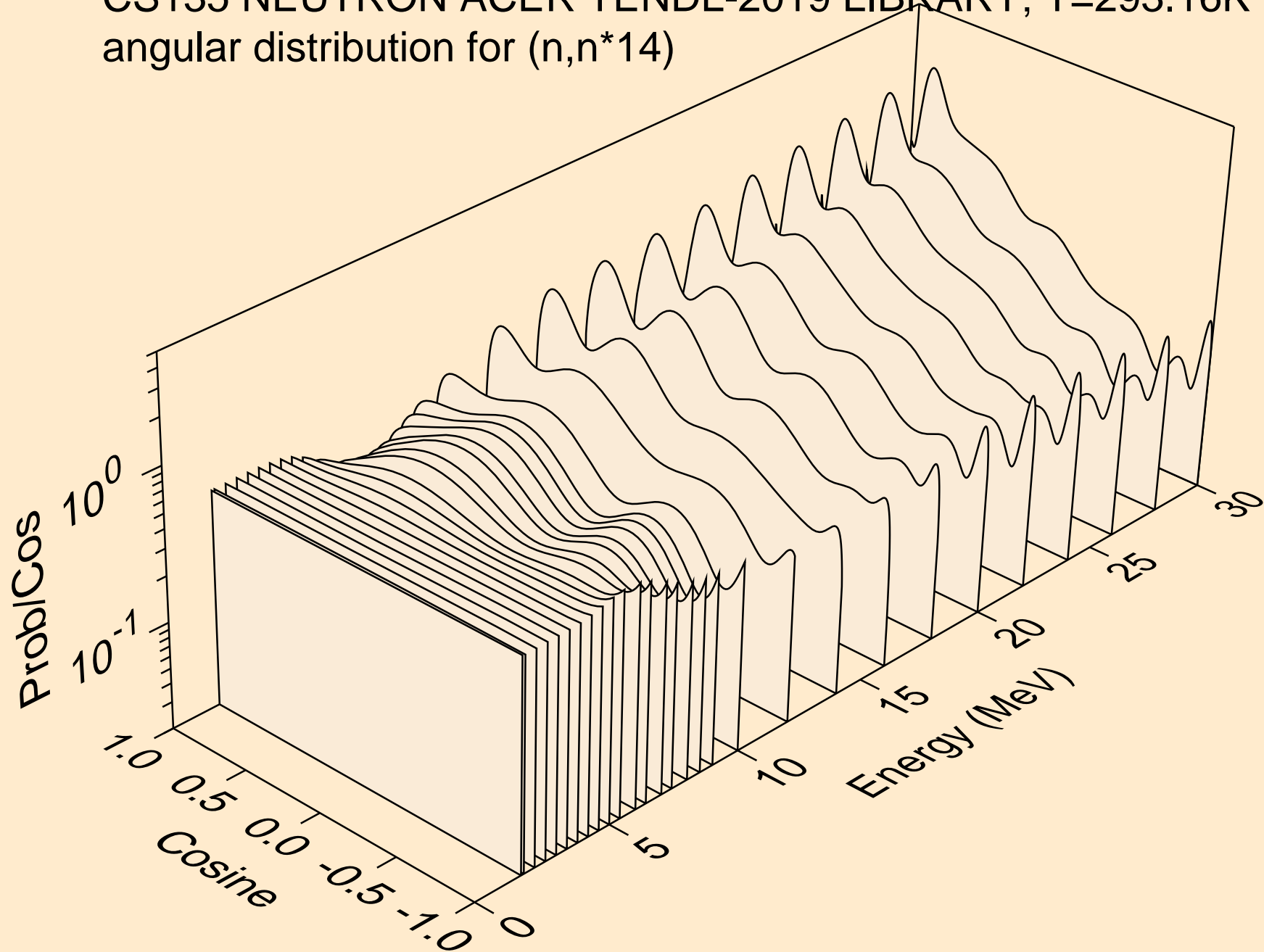
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angular distribution for (n,n\*12)



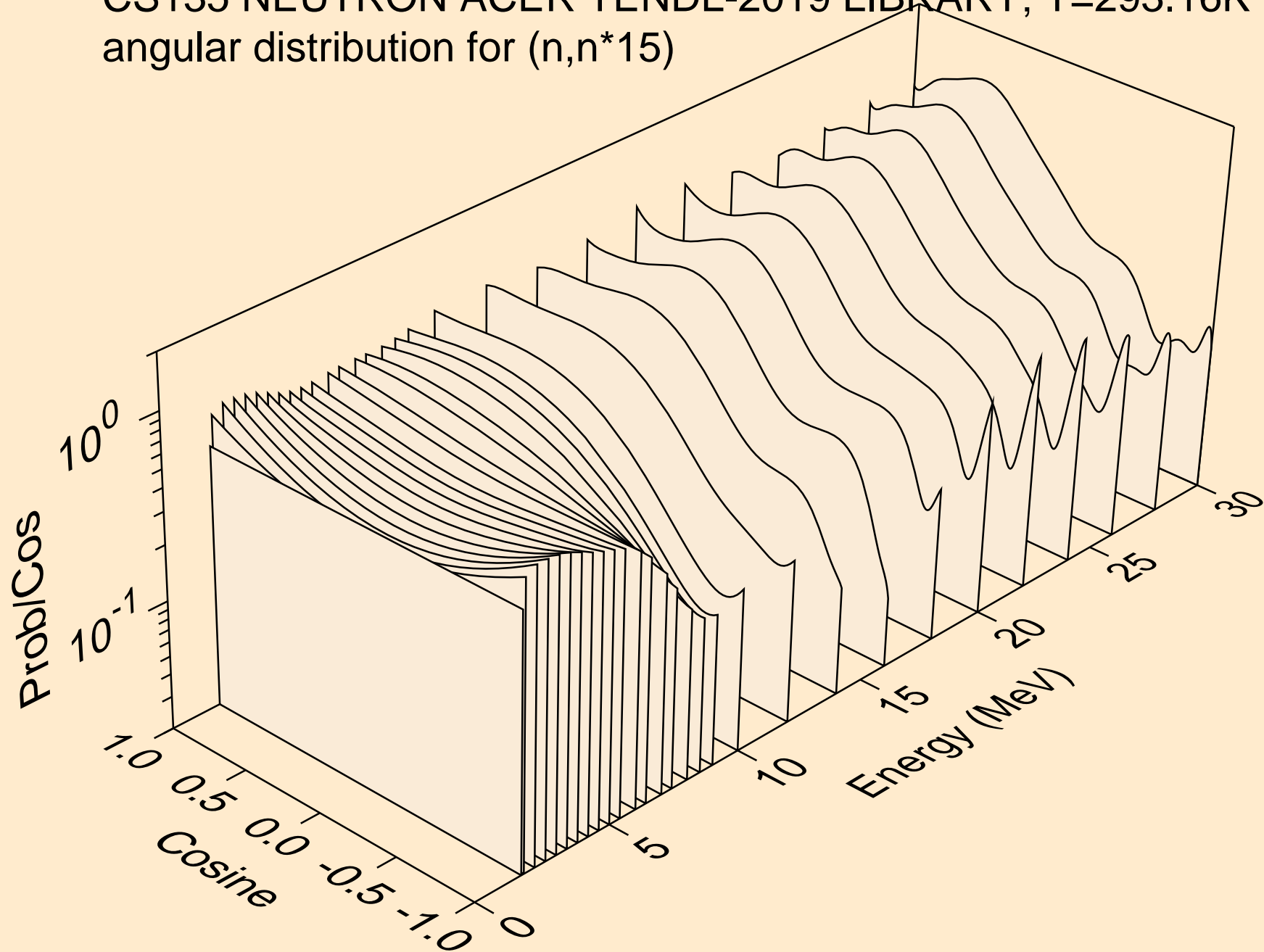
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angular distribution for (n,n\*13)



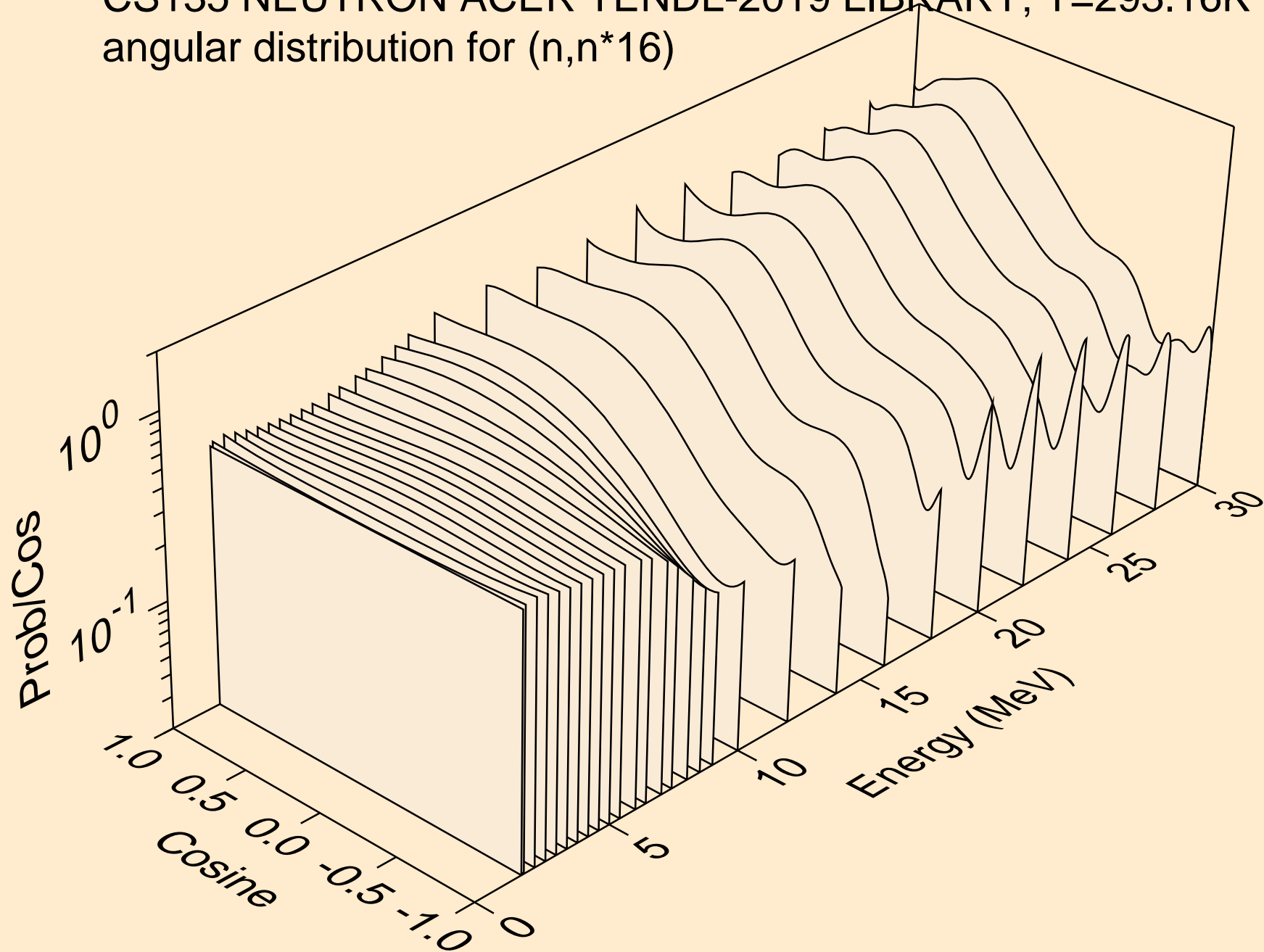
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angular distribution for (n,n\*14)



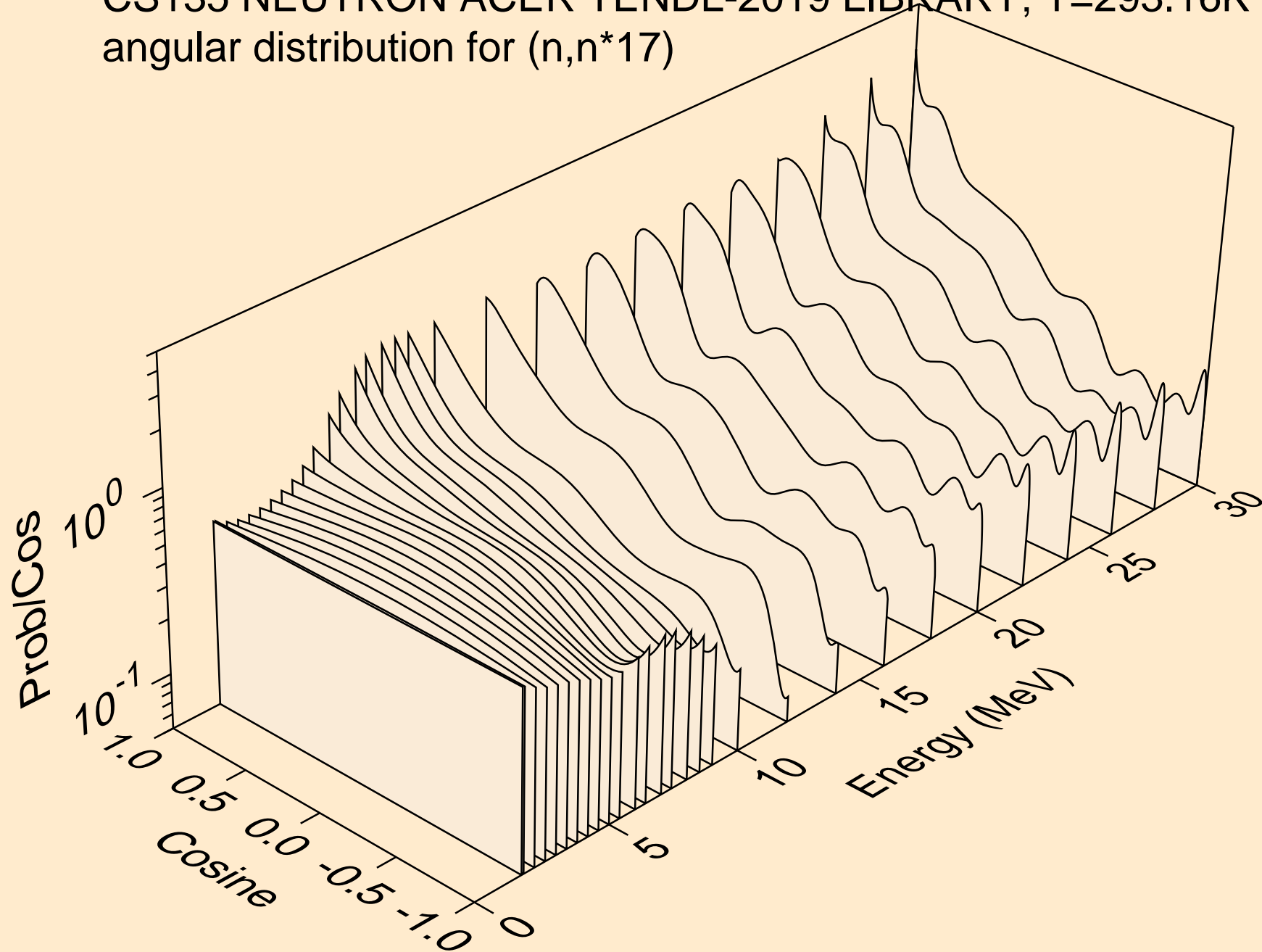
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angular distribution for (n,n\*15)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)

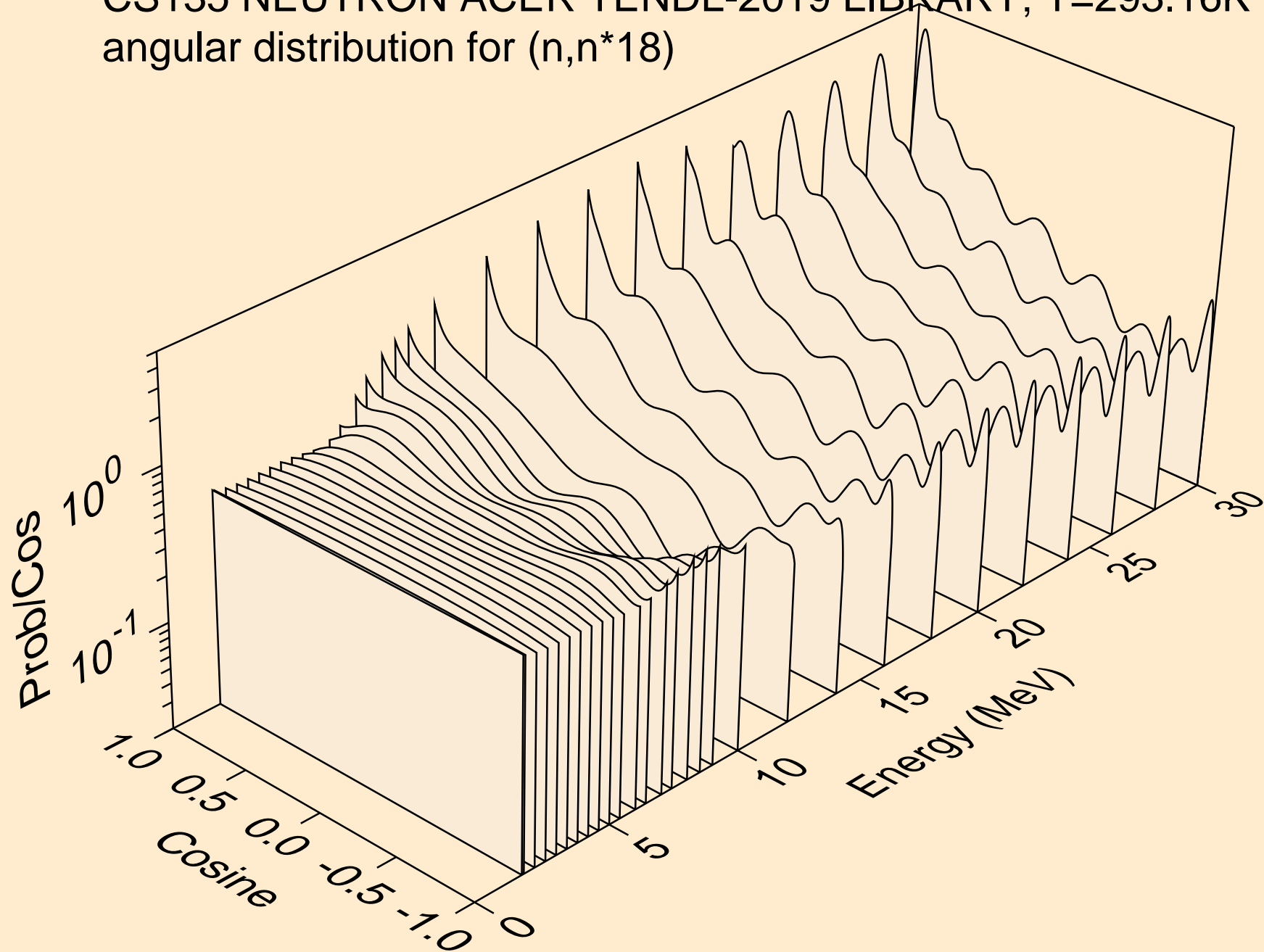


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*17)

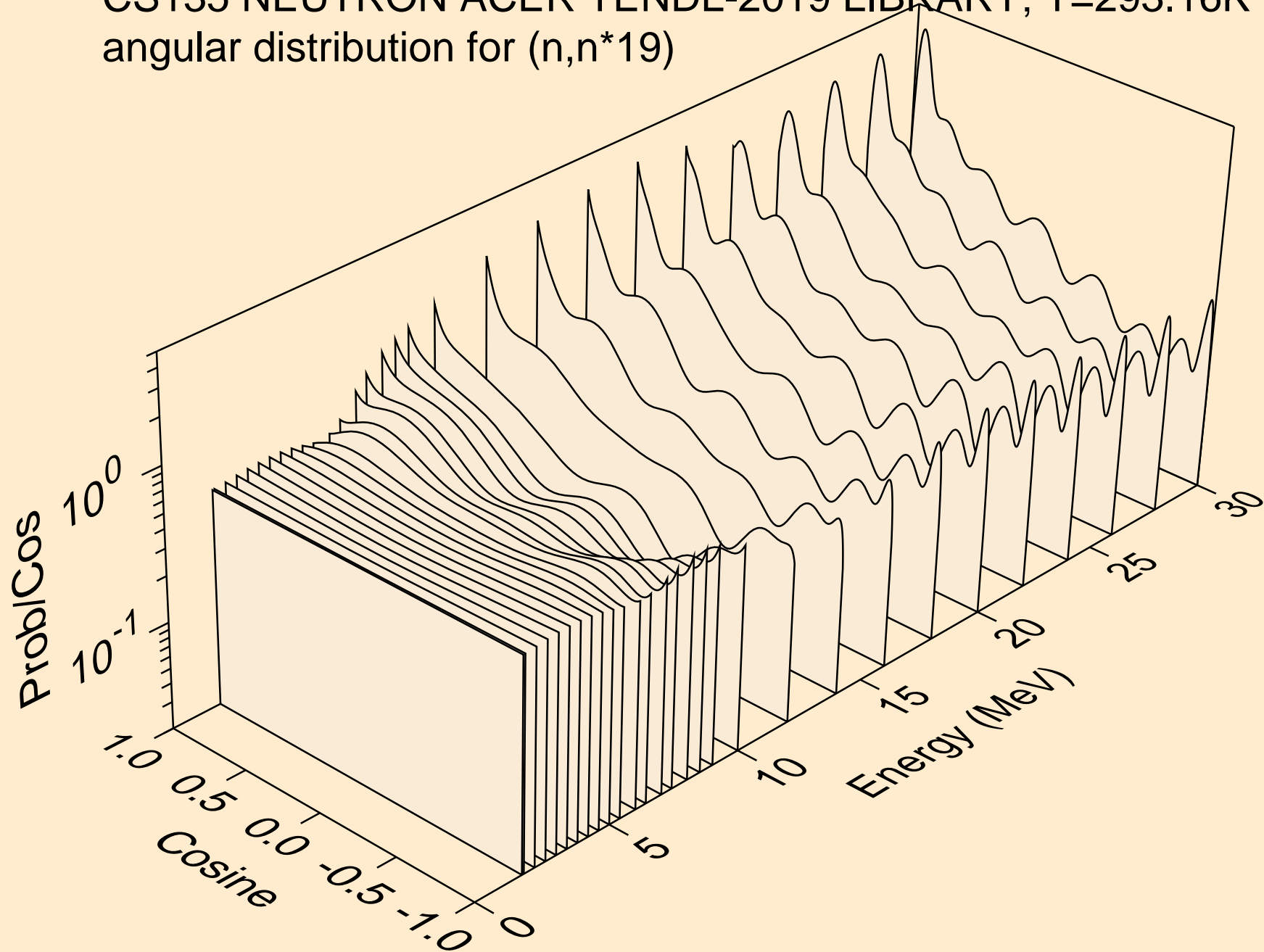




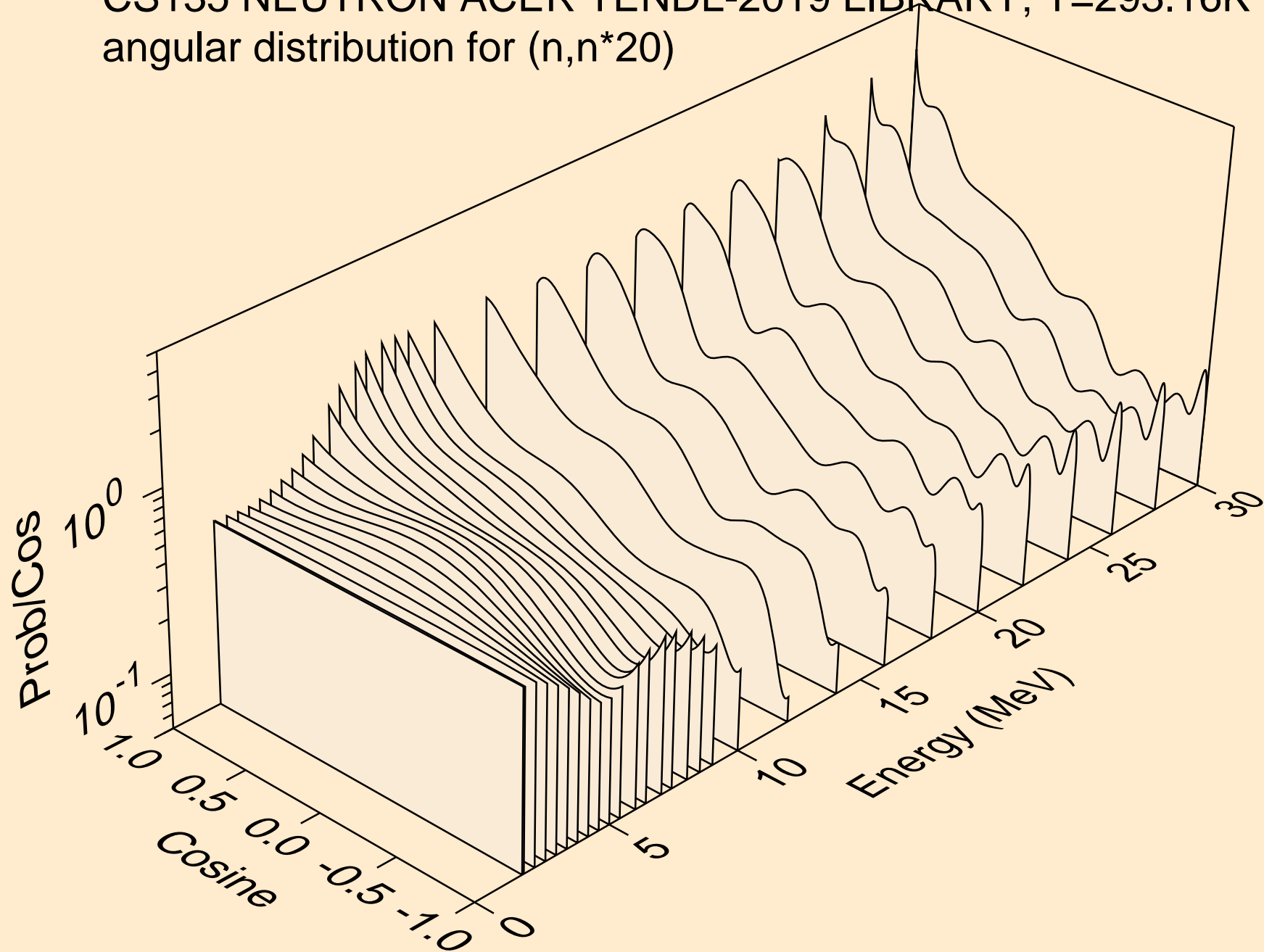
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angular distribution for (n,n\*18)



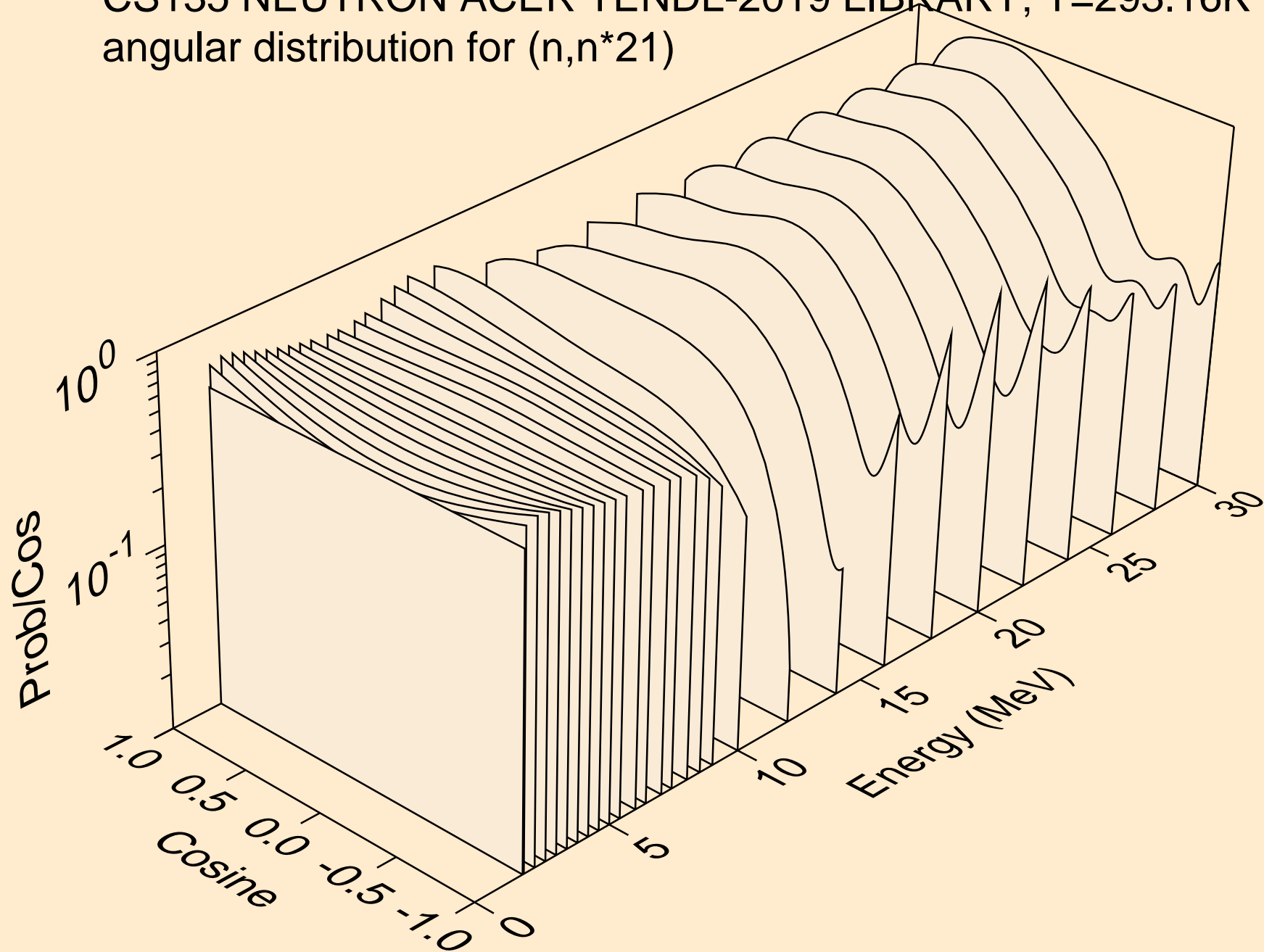
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angular distribution for (n,n\*19)



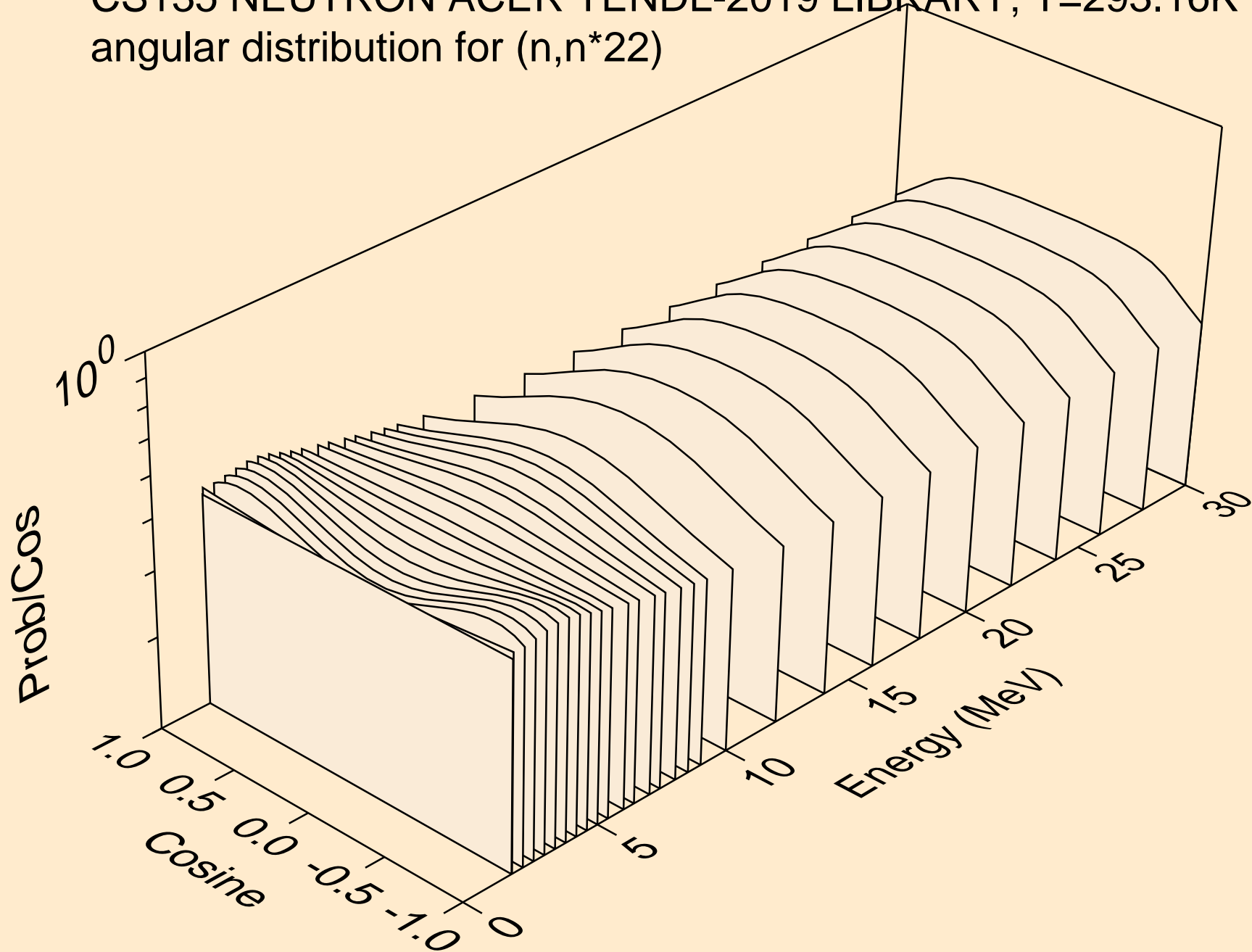
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angular distribution for (n,n\*20)



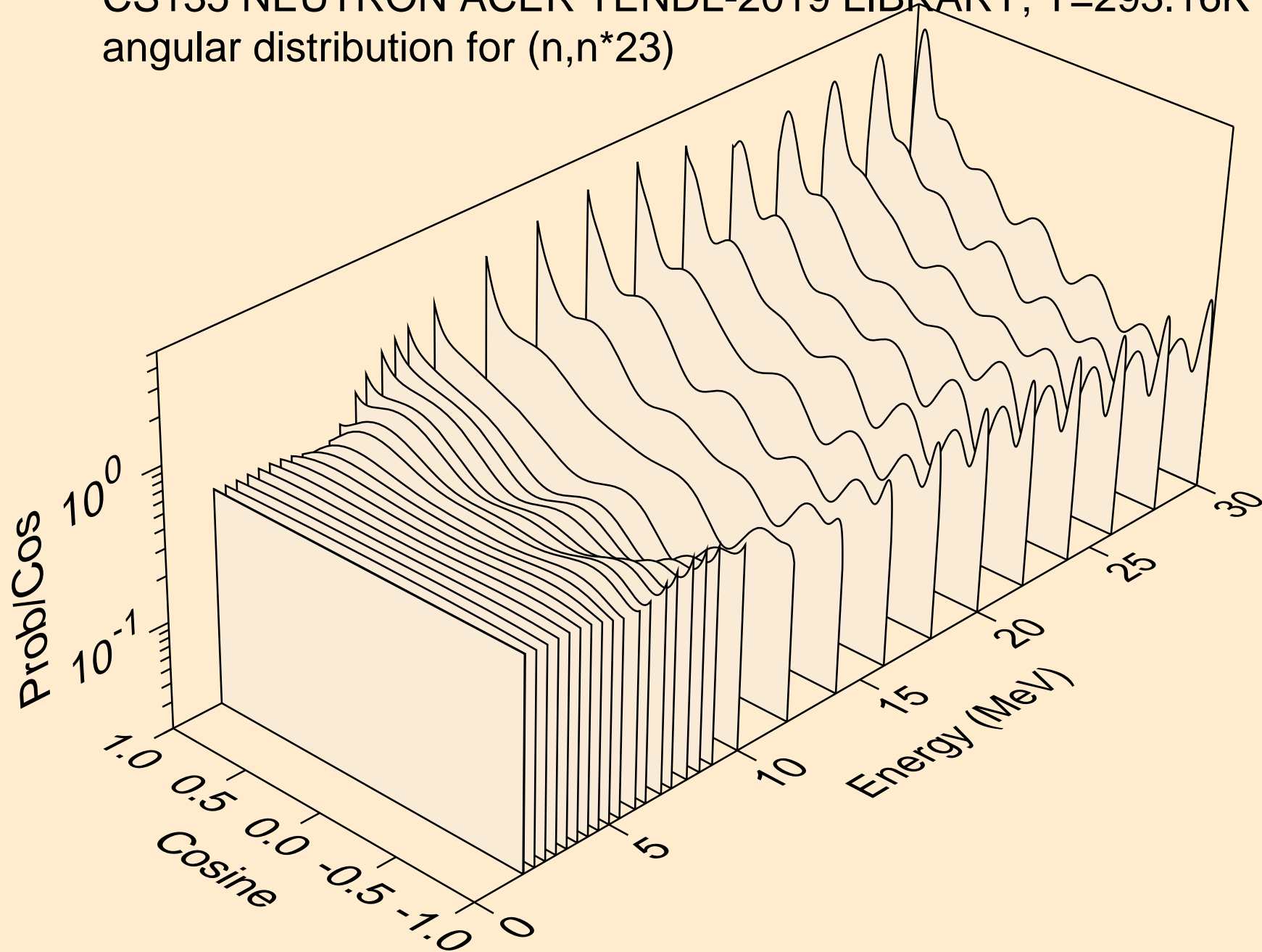
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angular distribution for (n,n\*21)



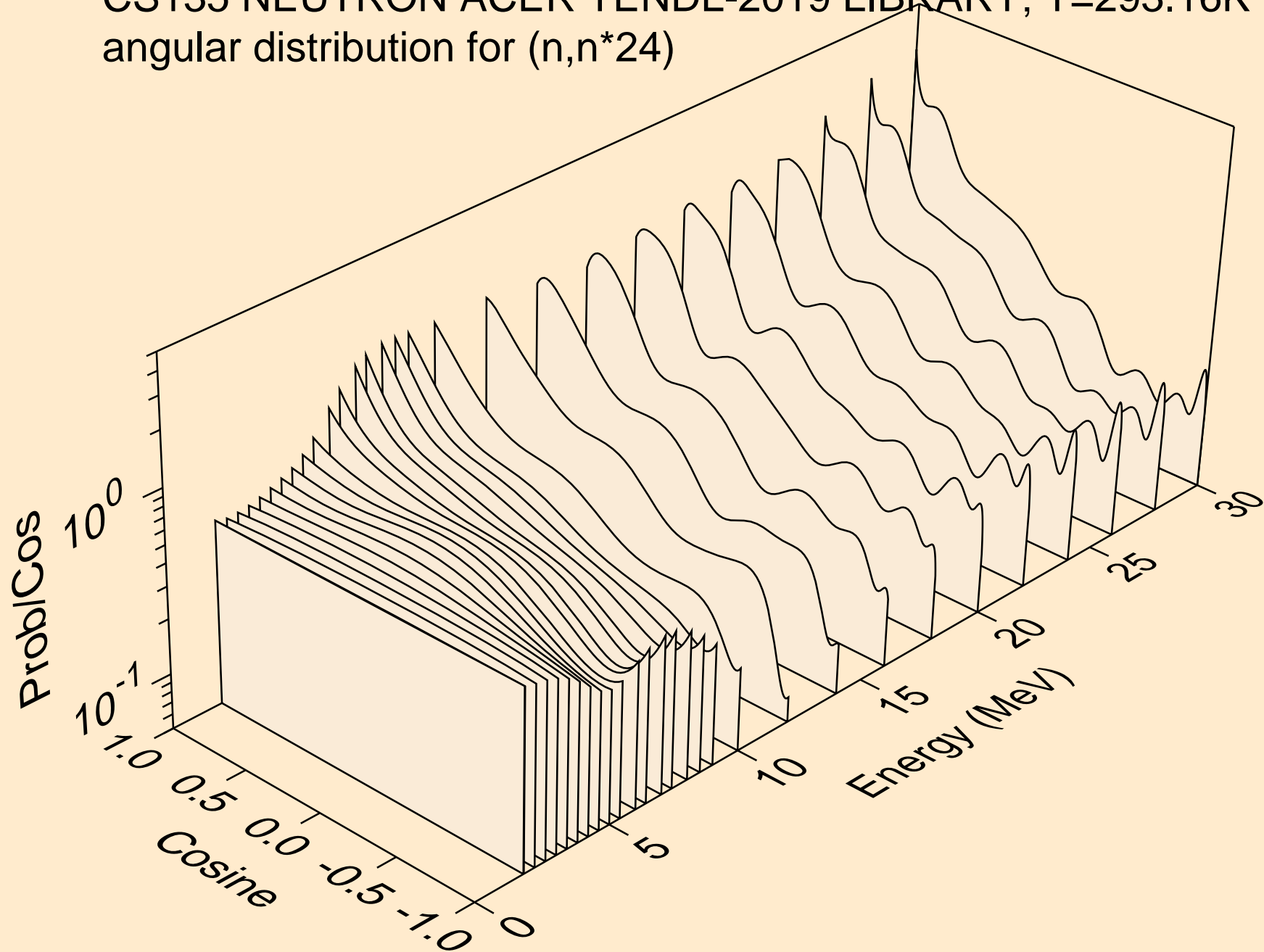
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angular distribution for (n,n\*22)



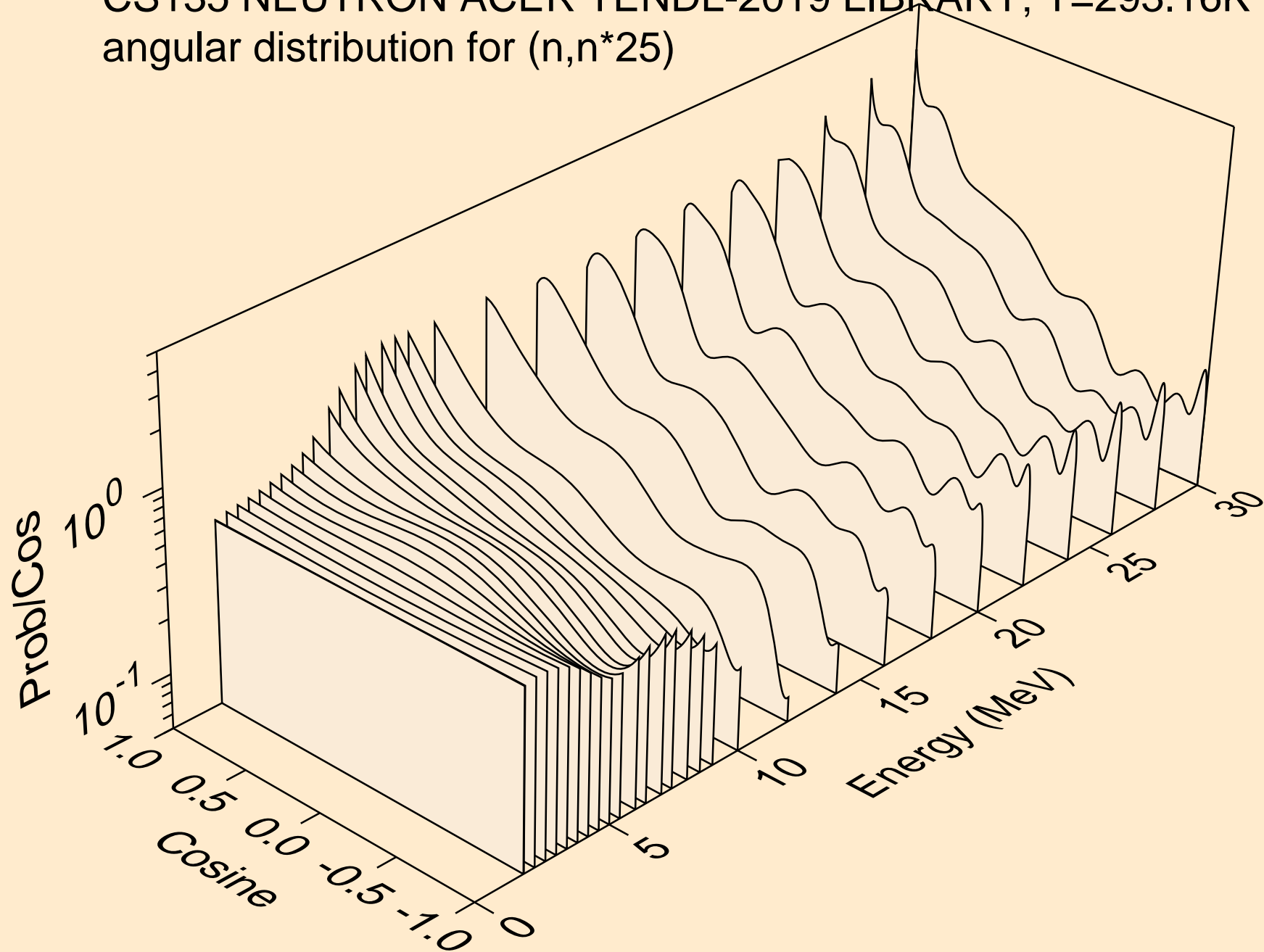
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)

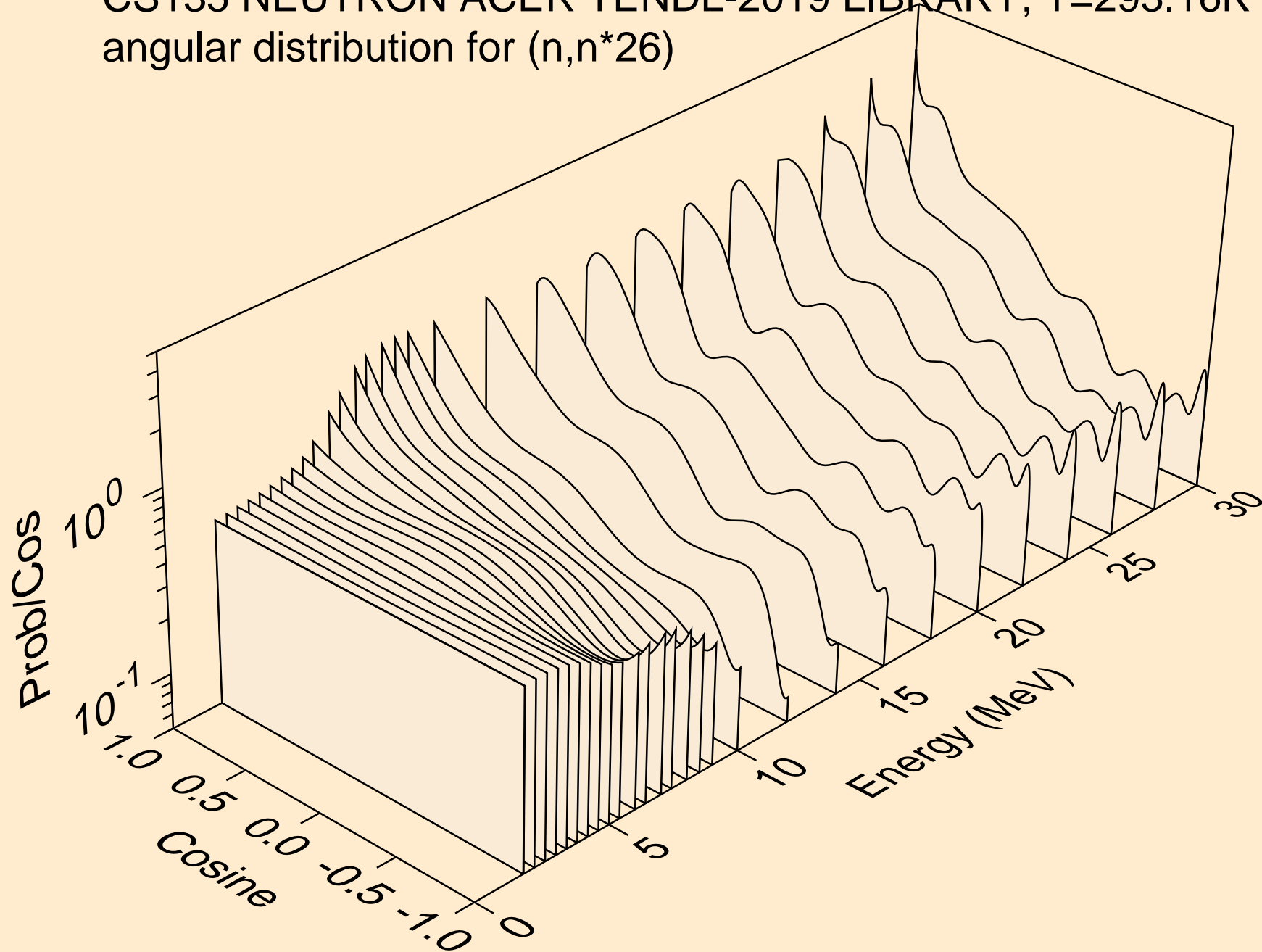


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angular distribution for (n,n\*25)

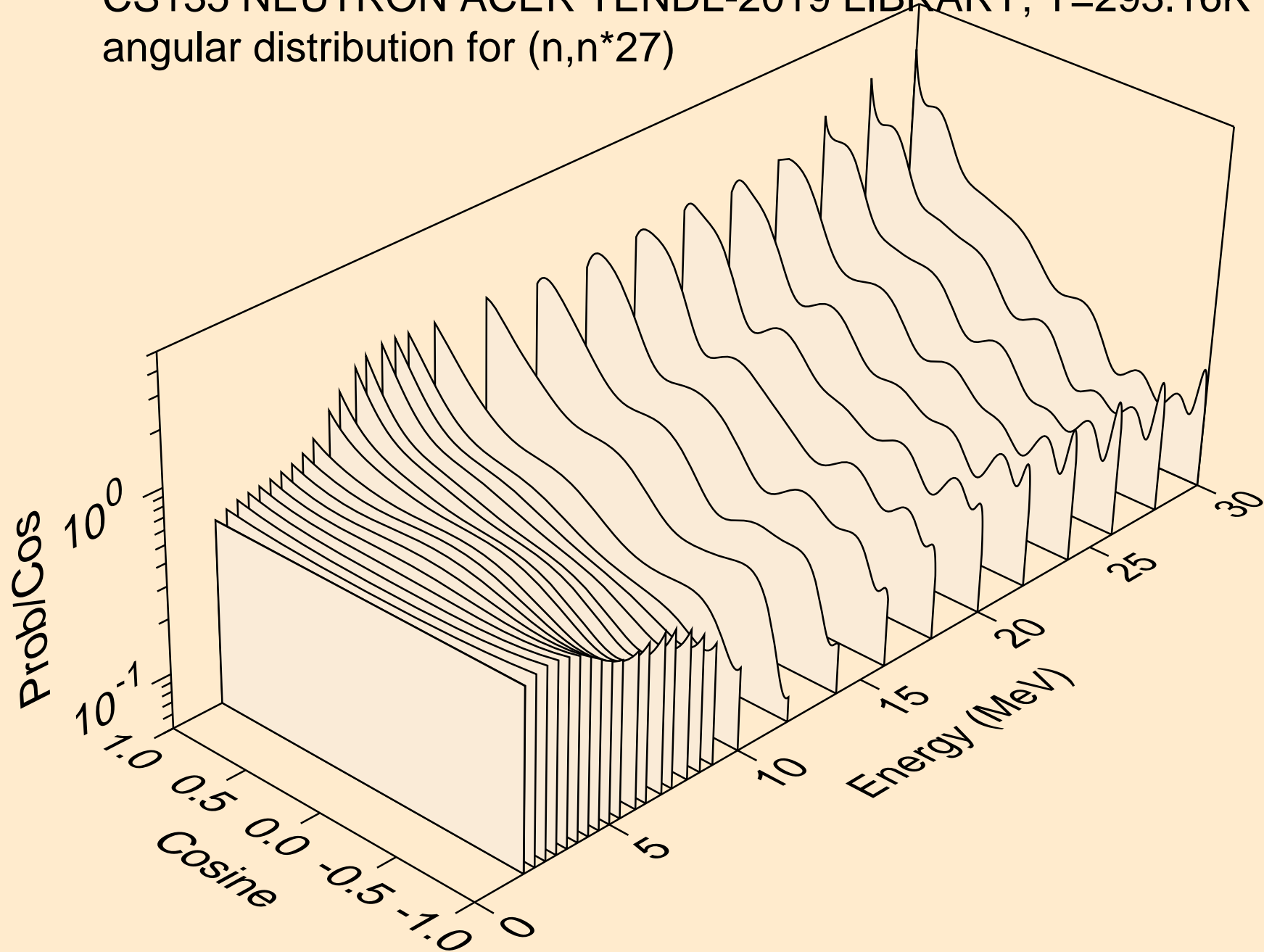




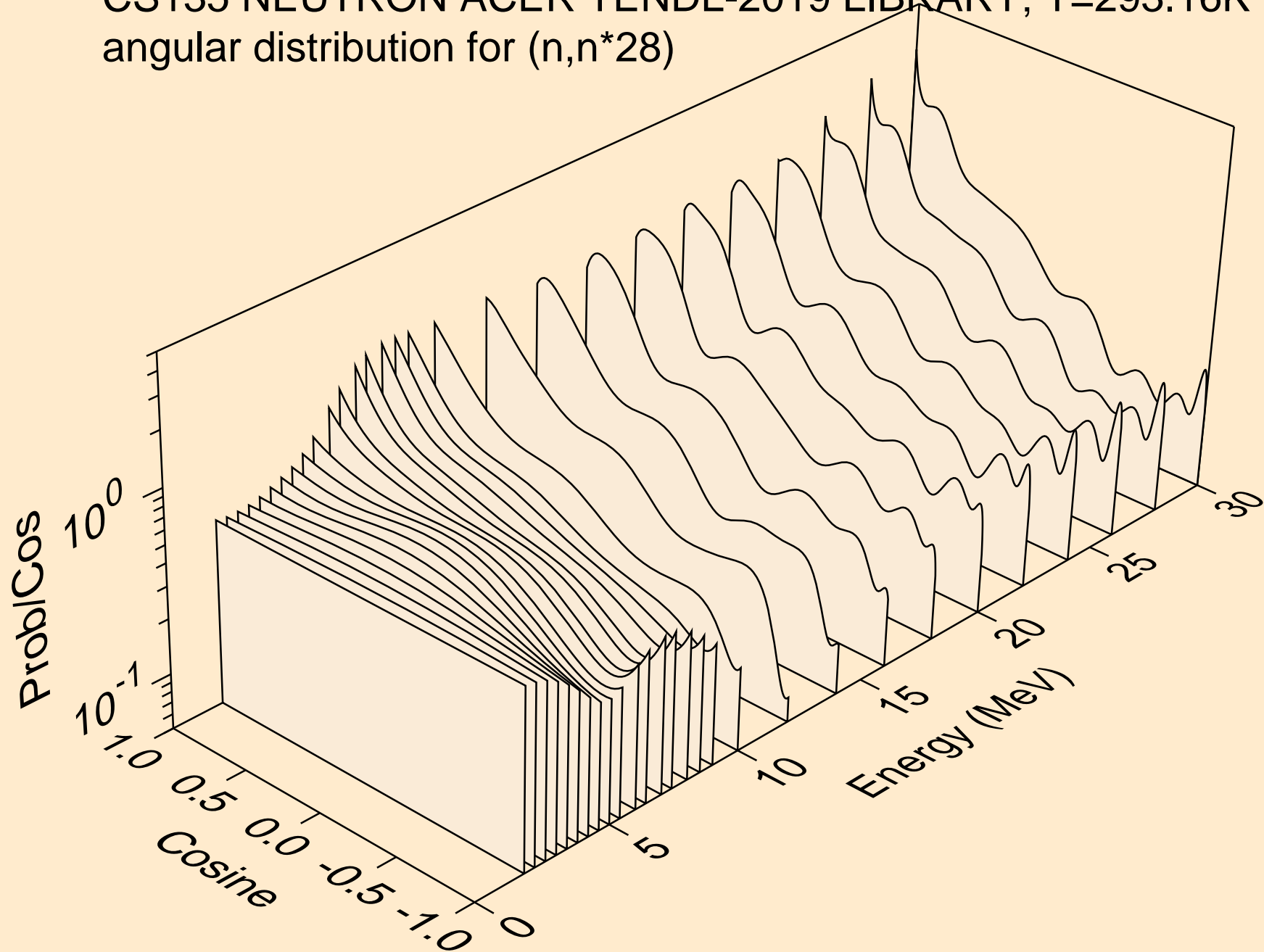
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angular distribution for (n,n\*26)



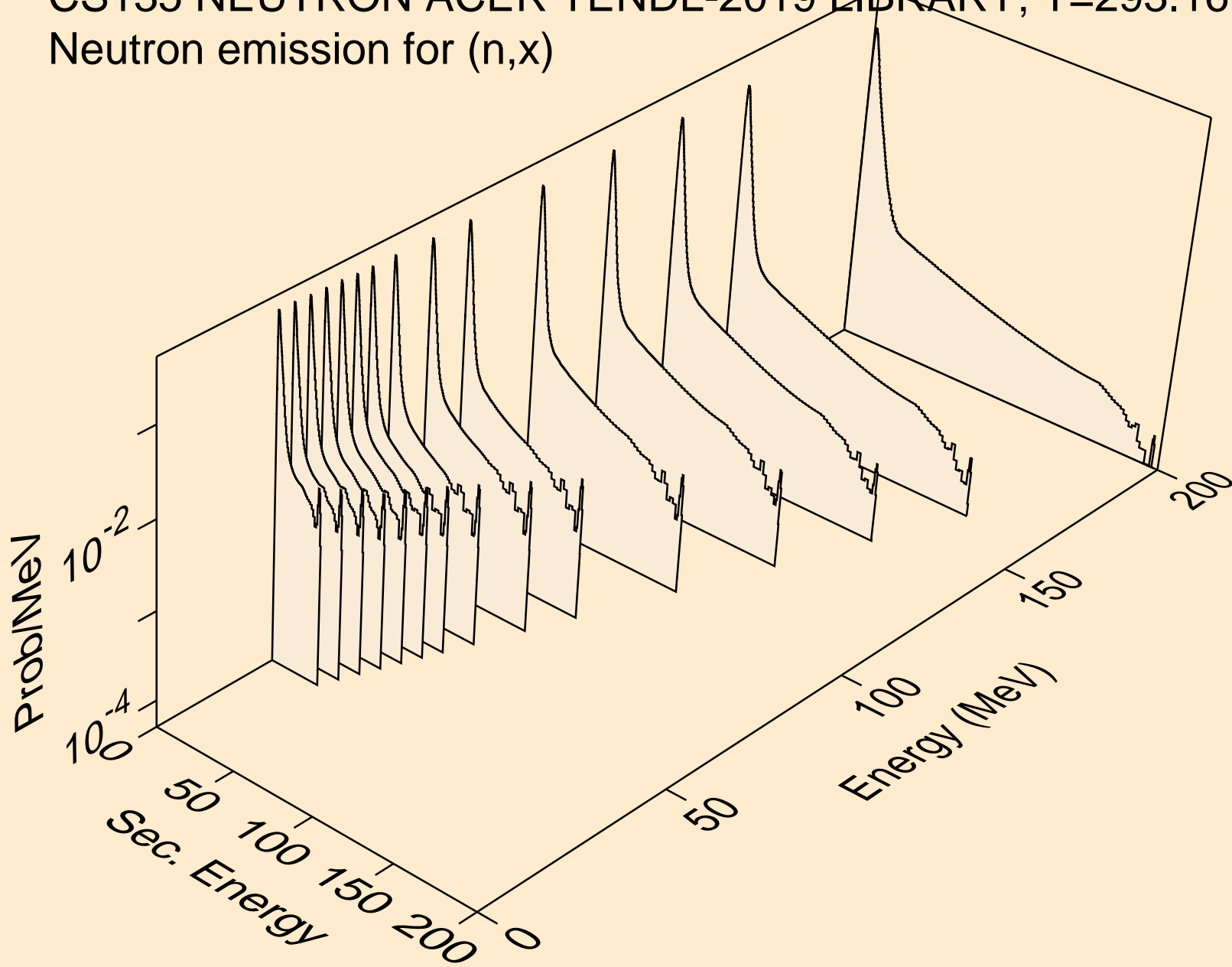
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angular distribution for (n,n\*27)



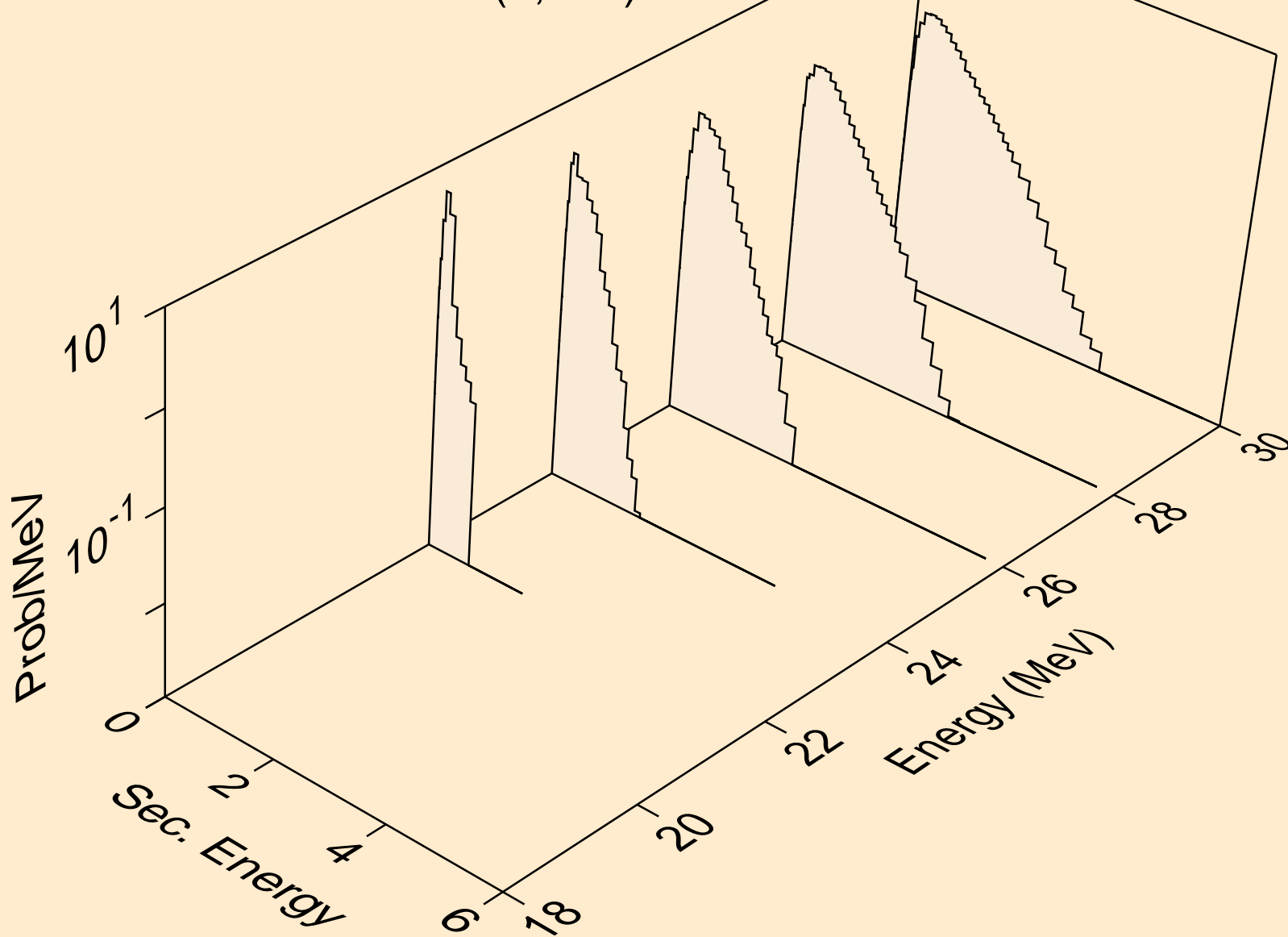
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angular distribution for (n,n\*28)



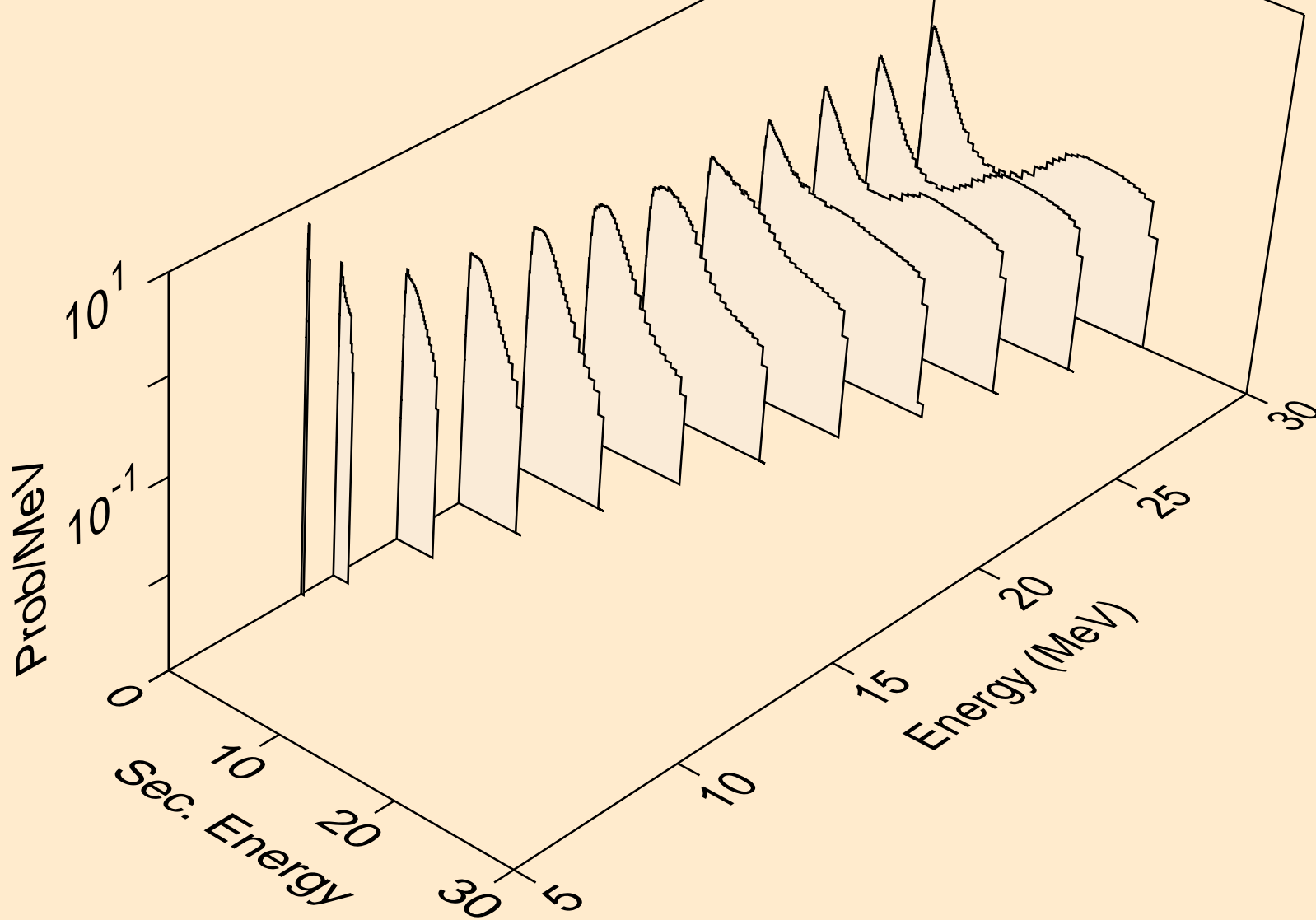
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



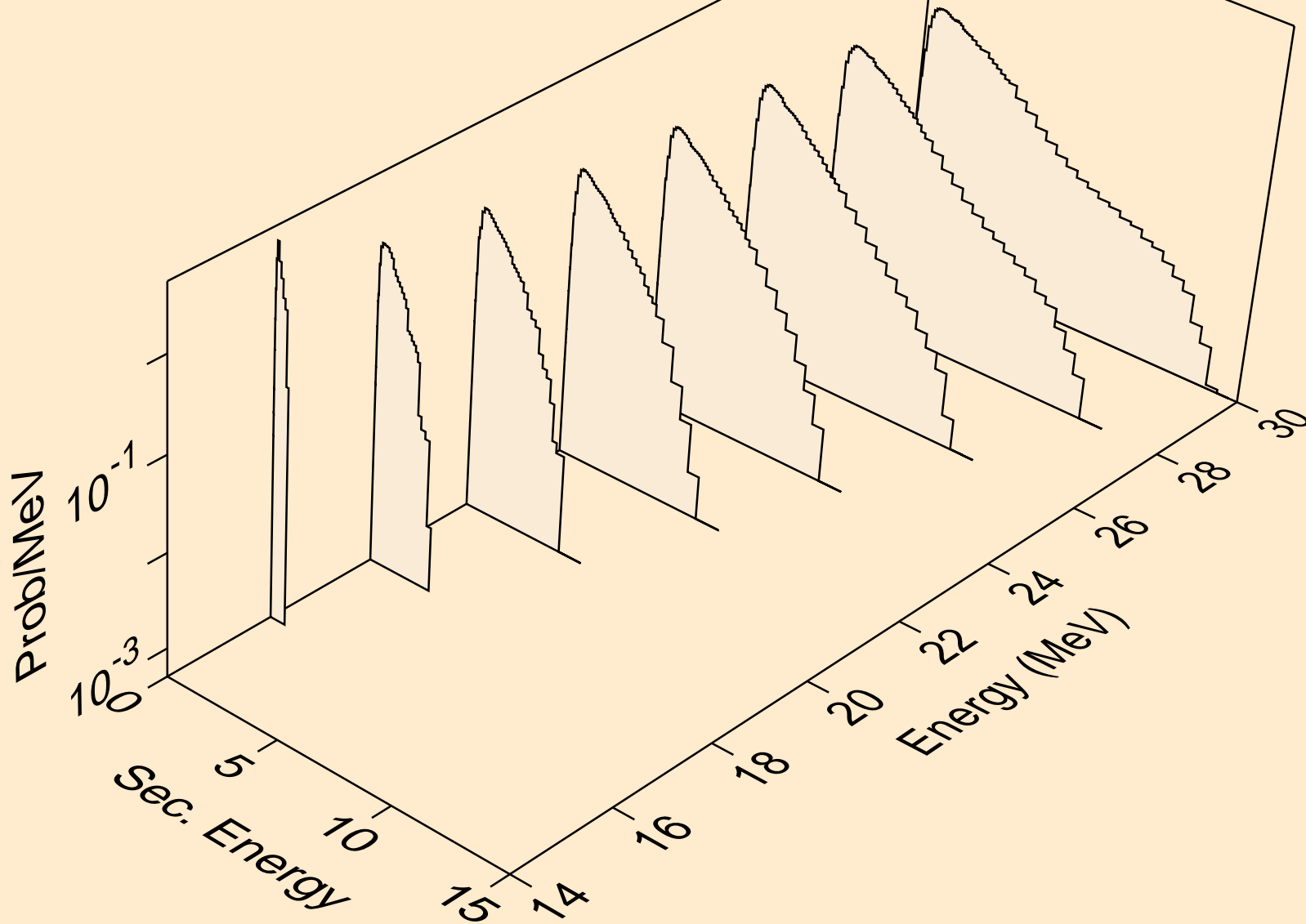
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



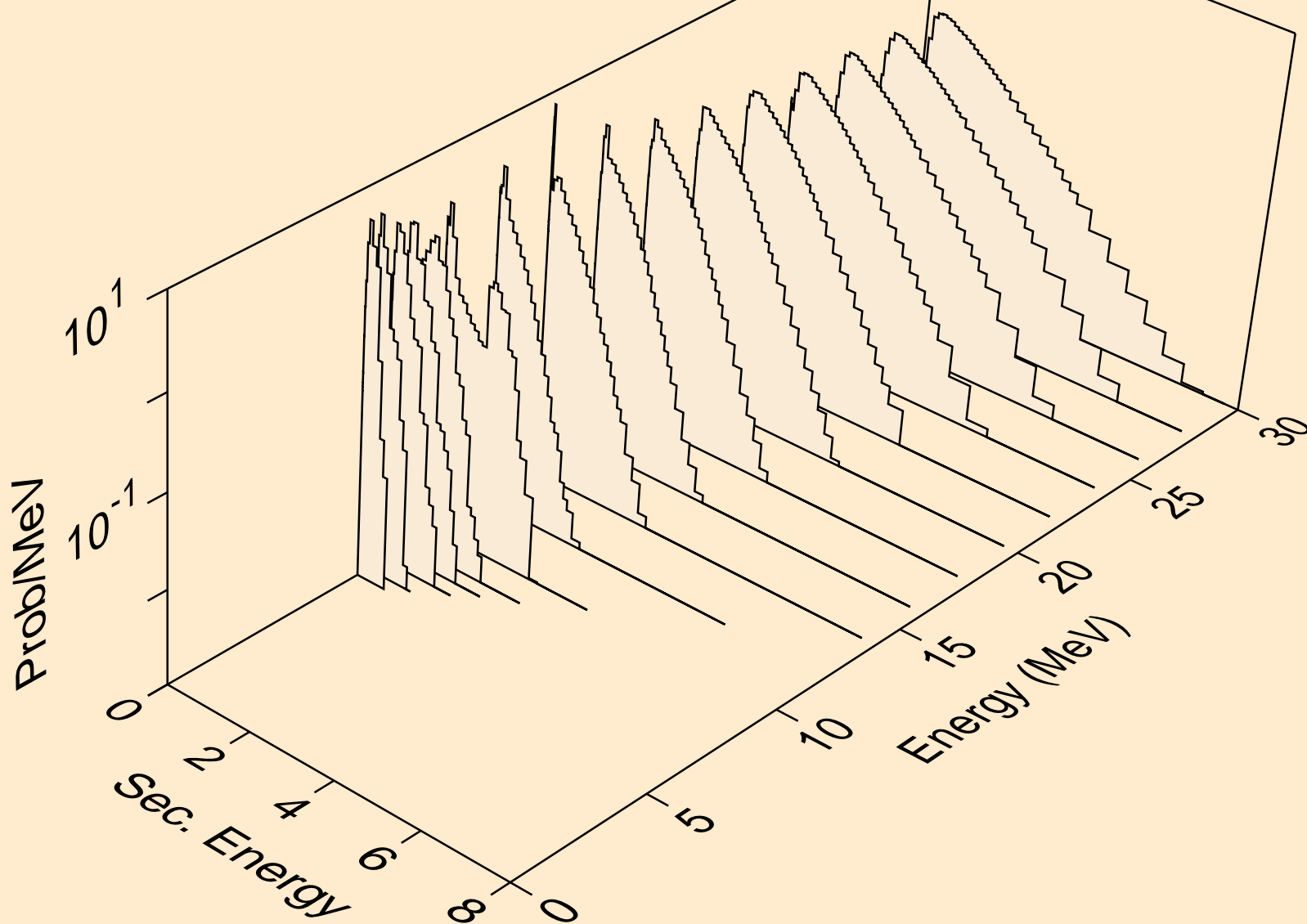
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

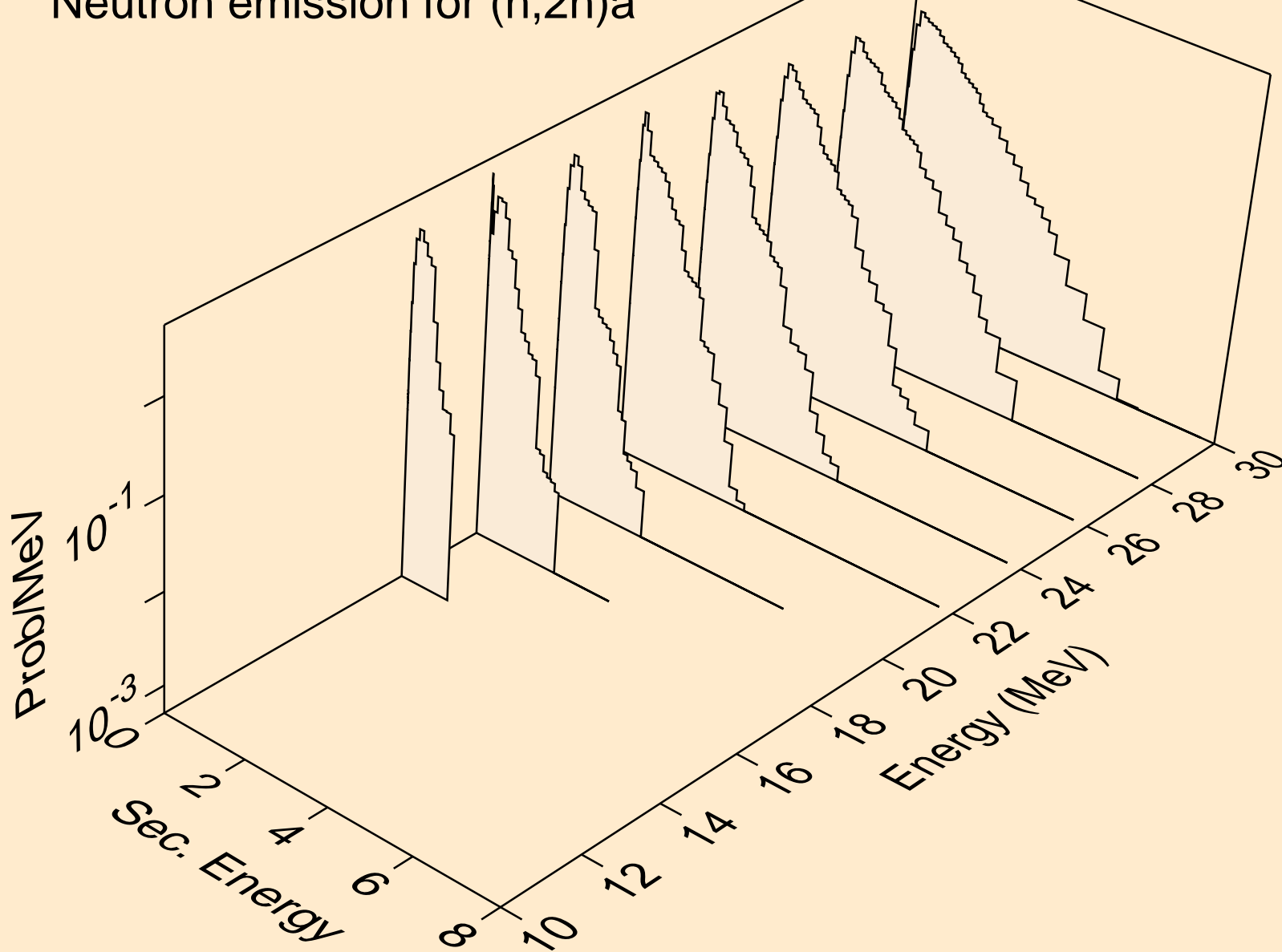


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a

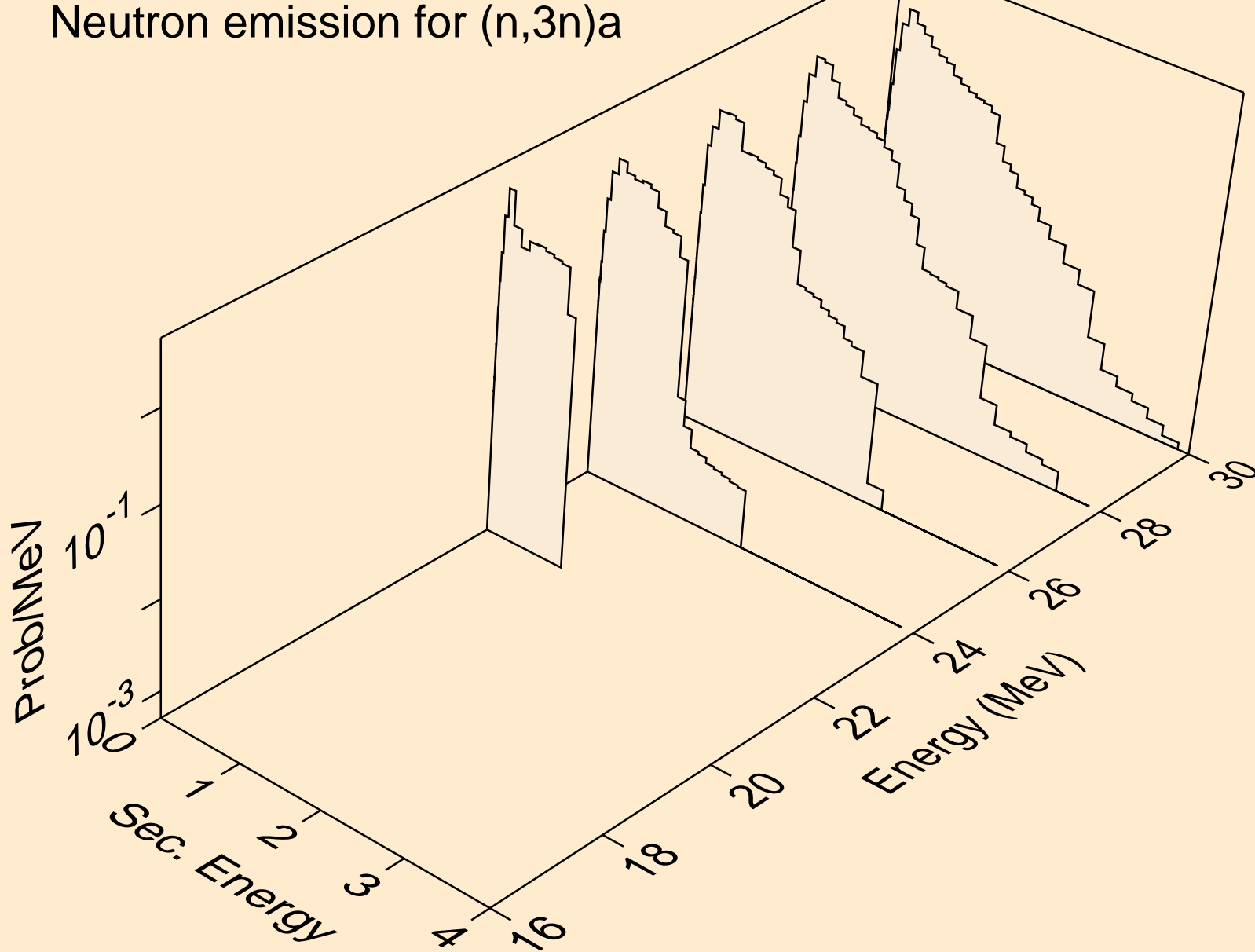




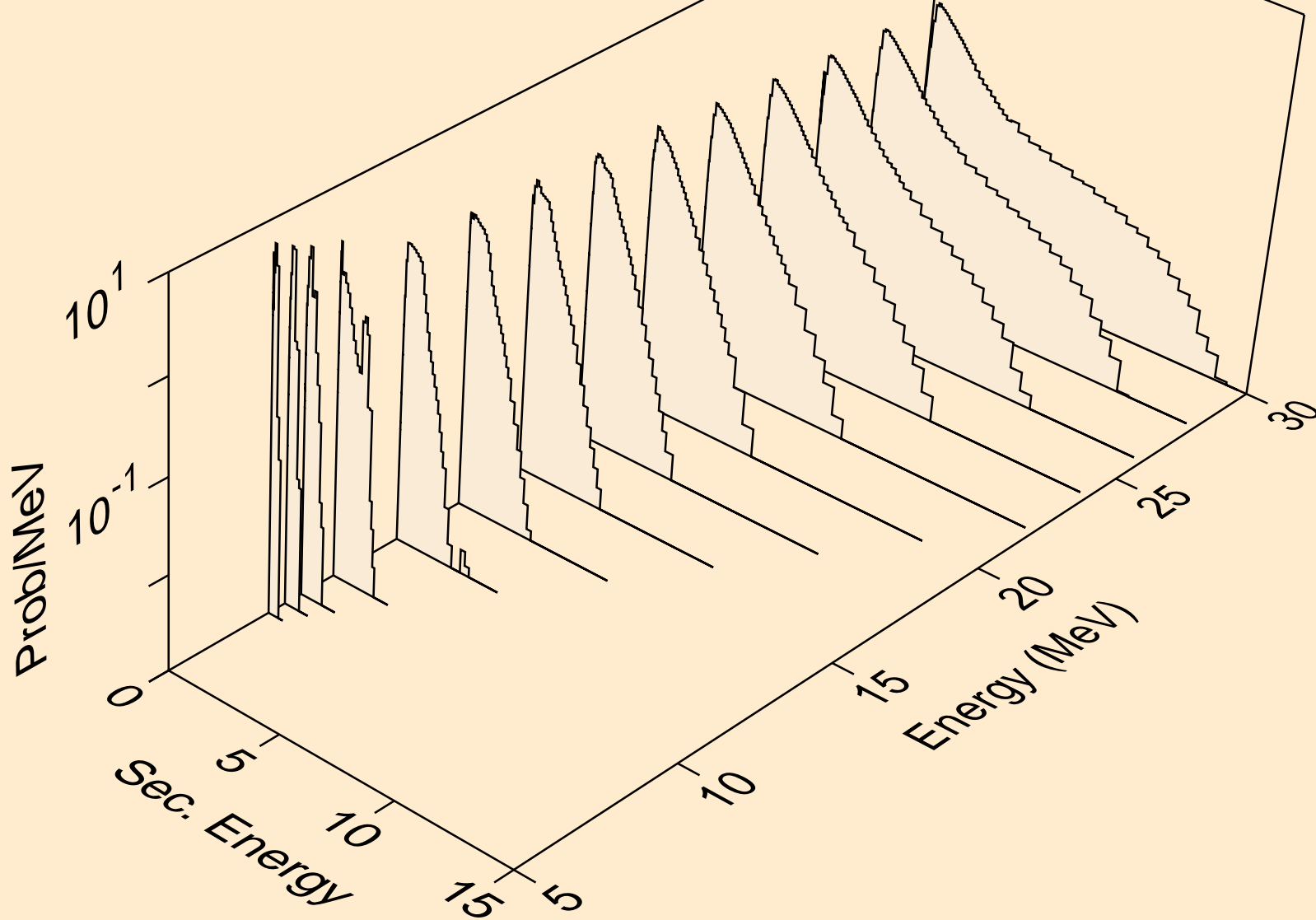
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Neutron emission for (n,2n)a



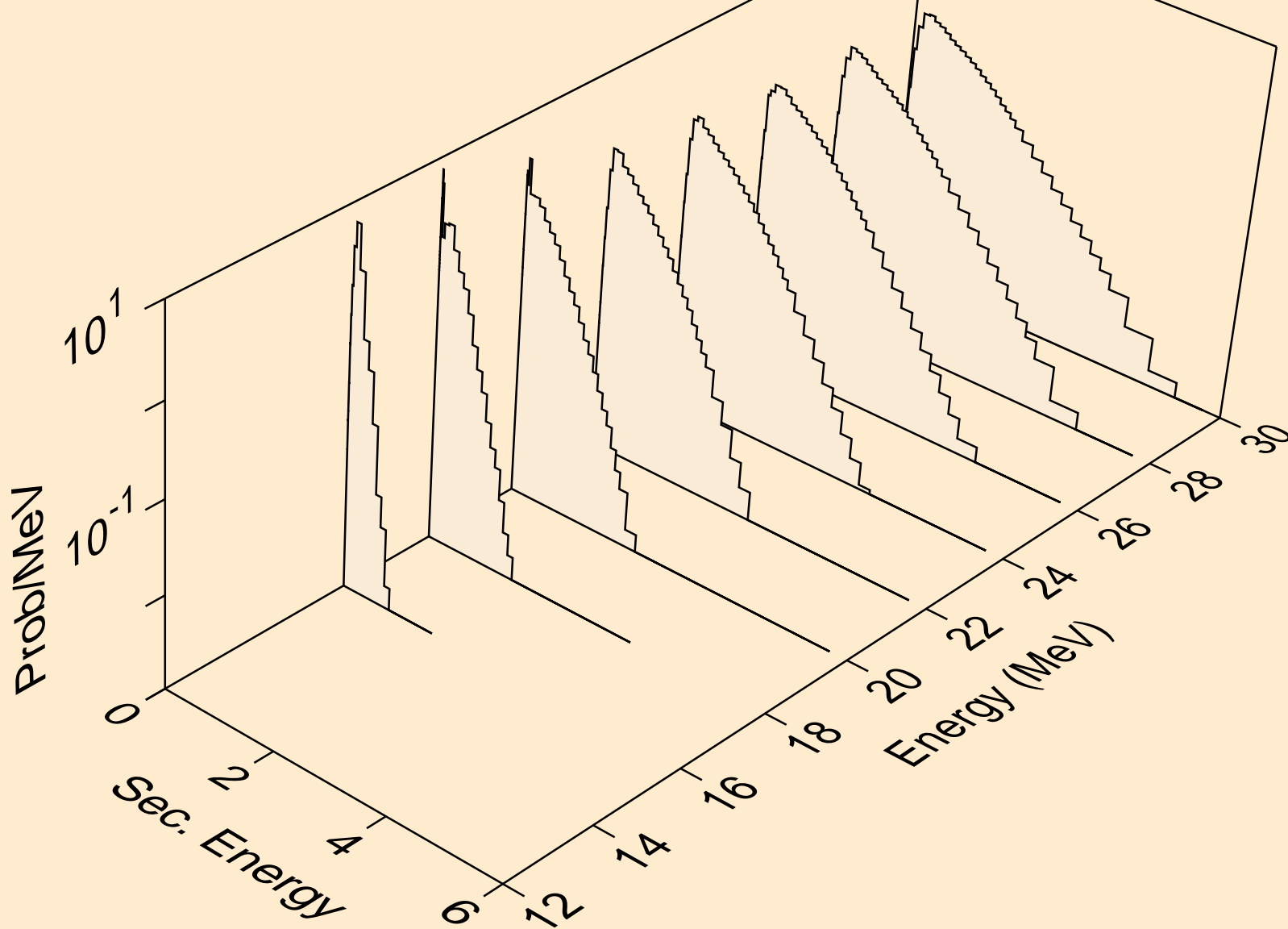
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



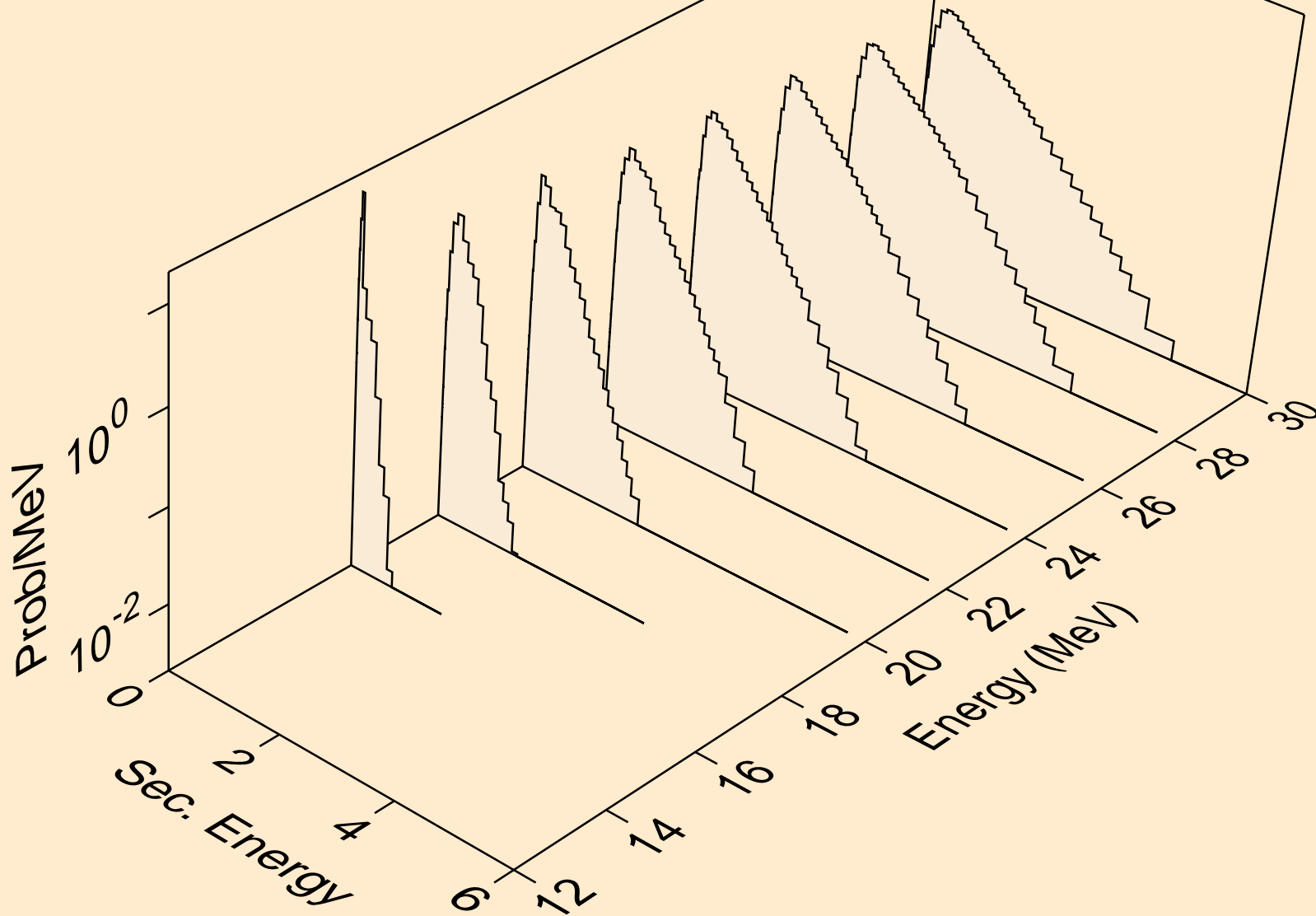
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



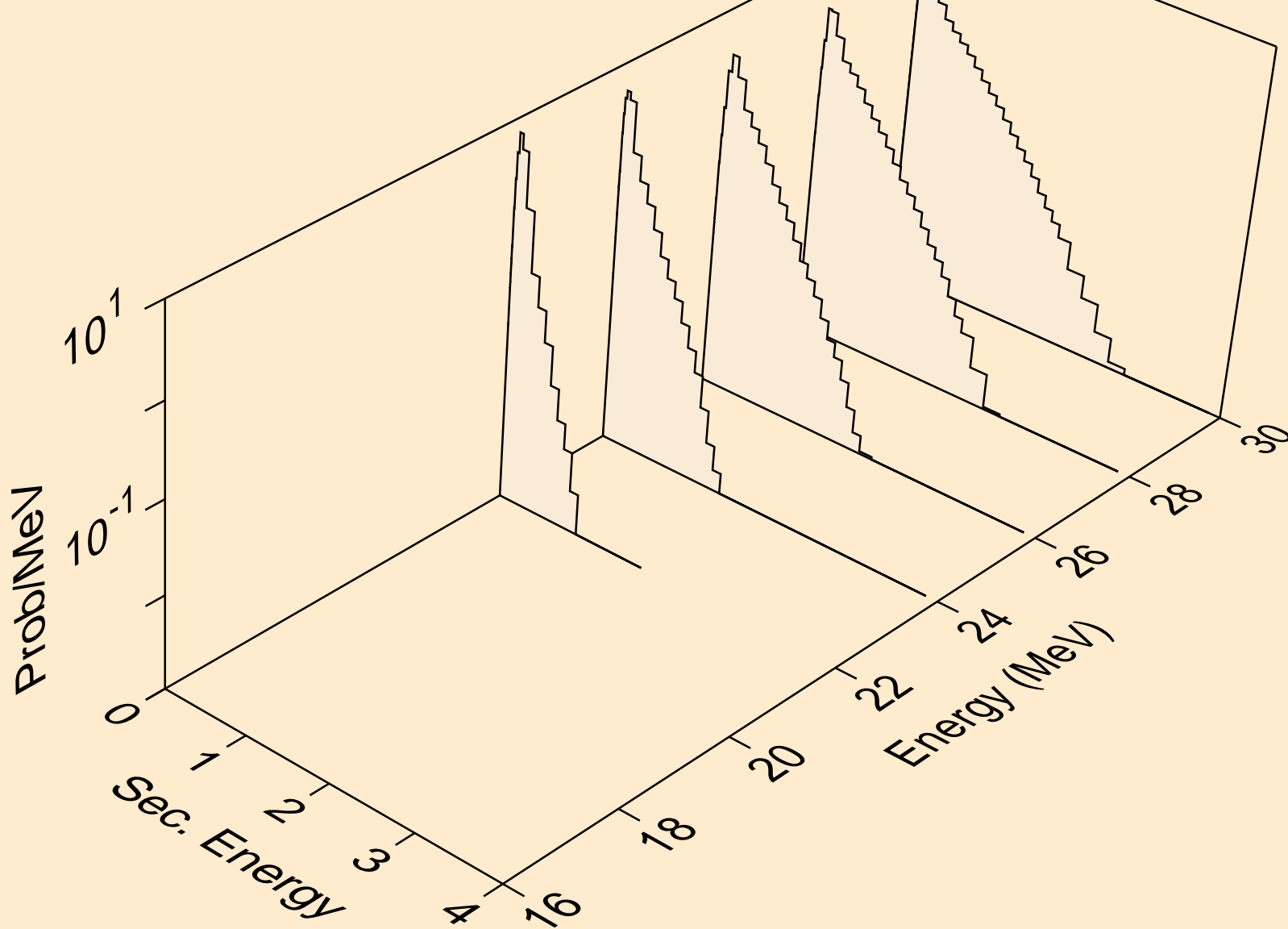
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Neutron emission for (n,n\*)d



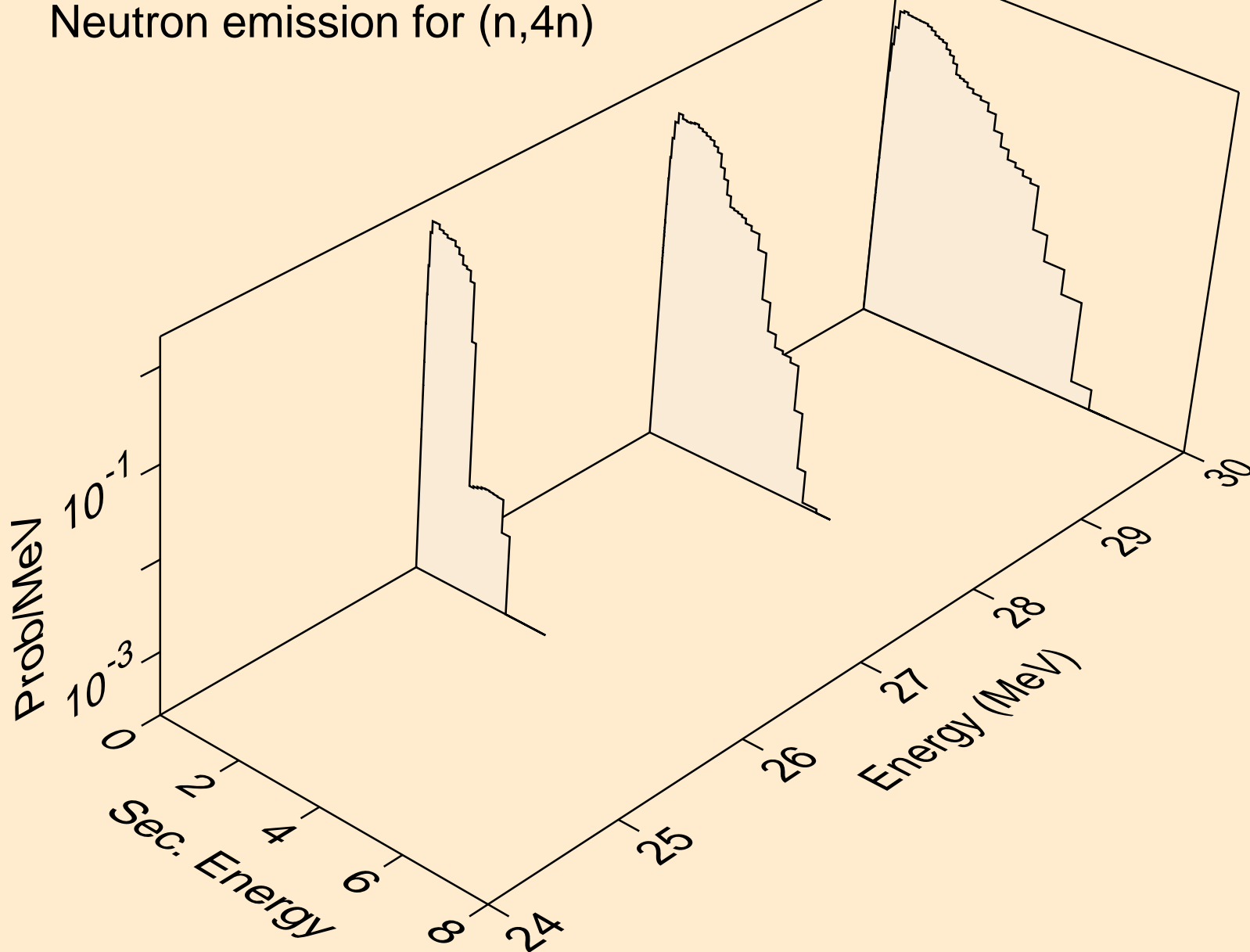
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



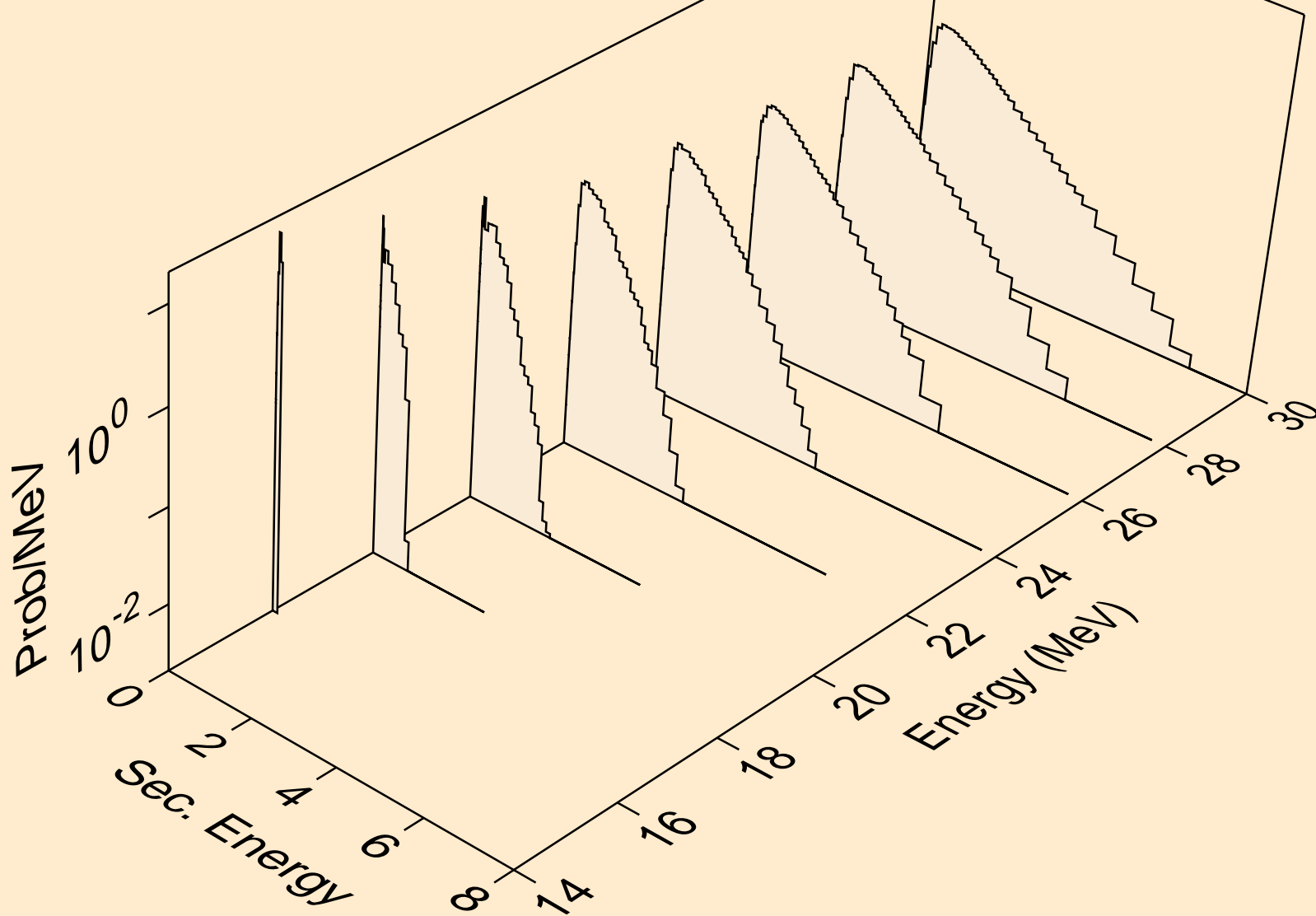
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)

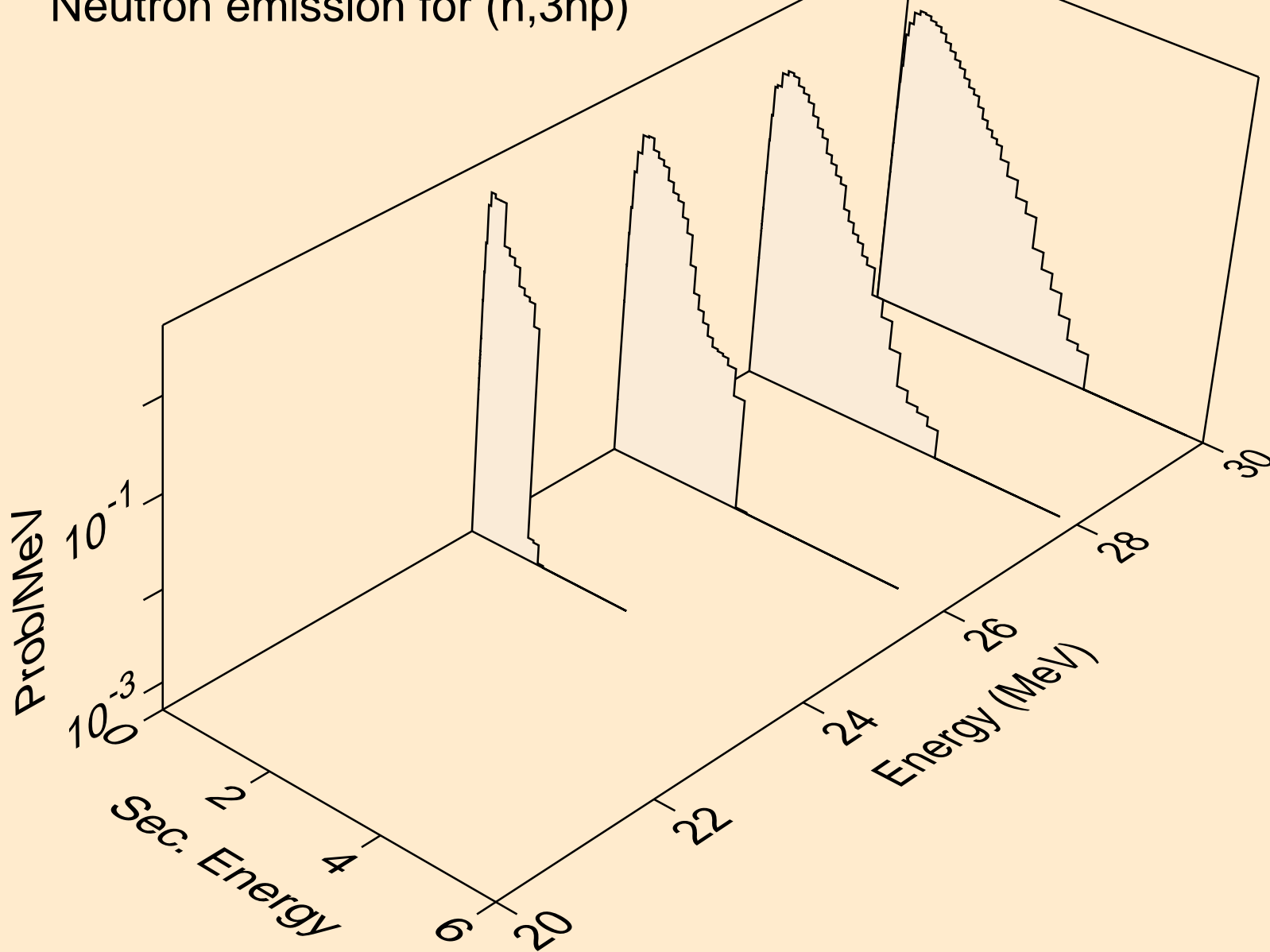


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

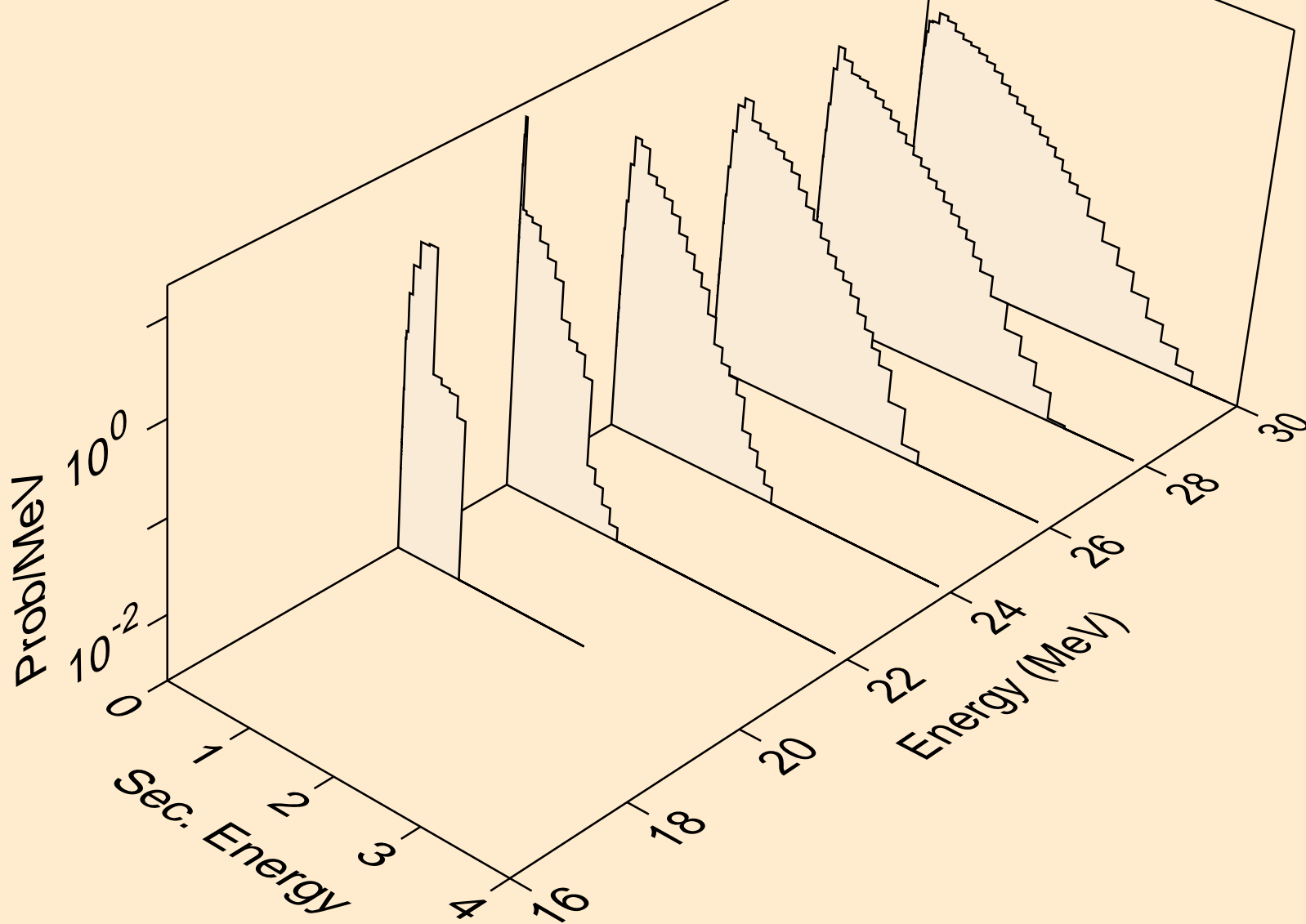




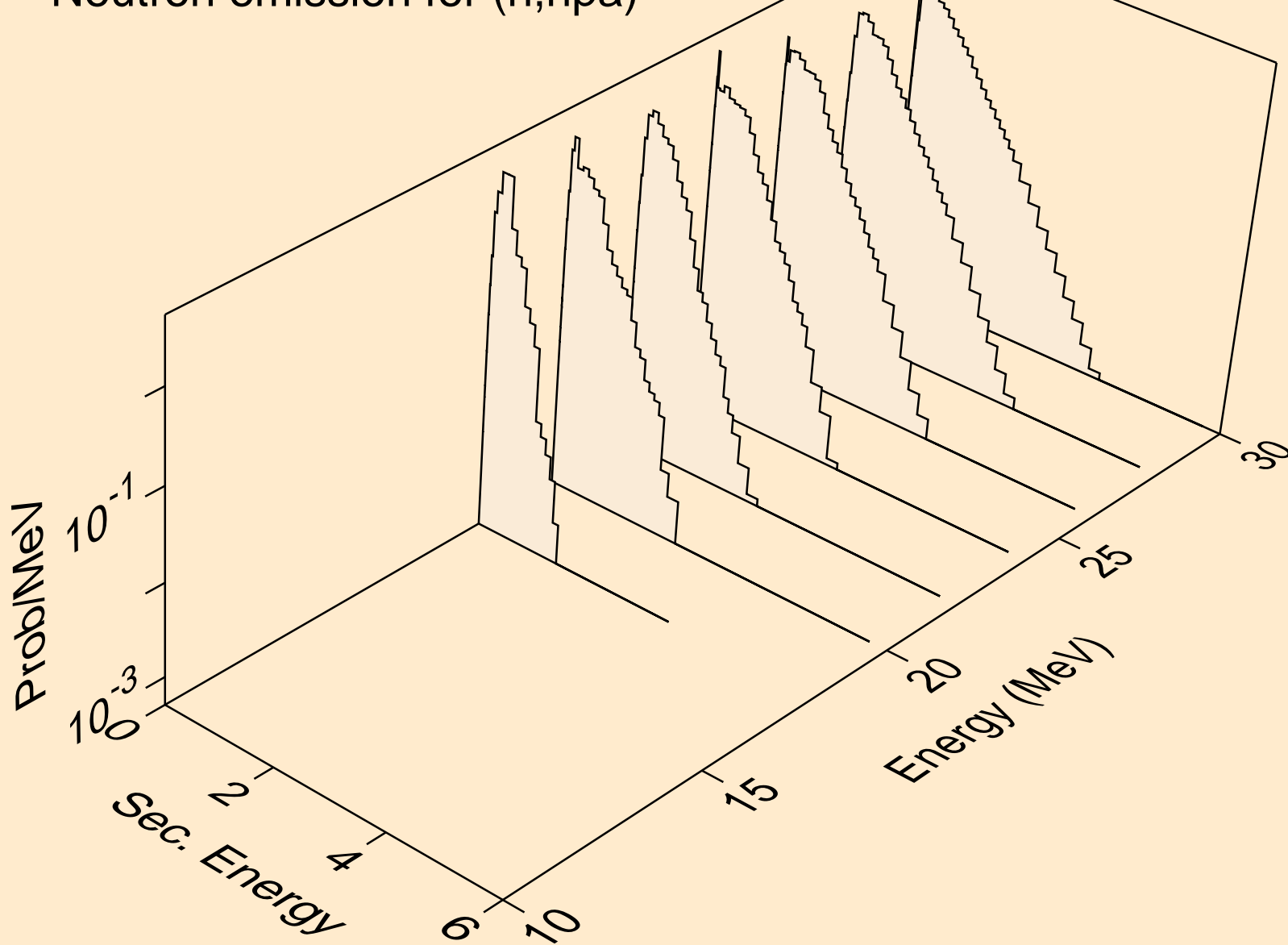
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Neutron emission for (n,3np)



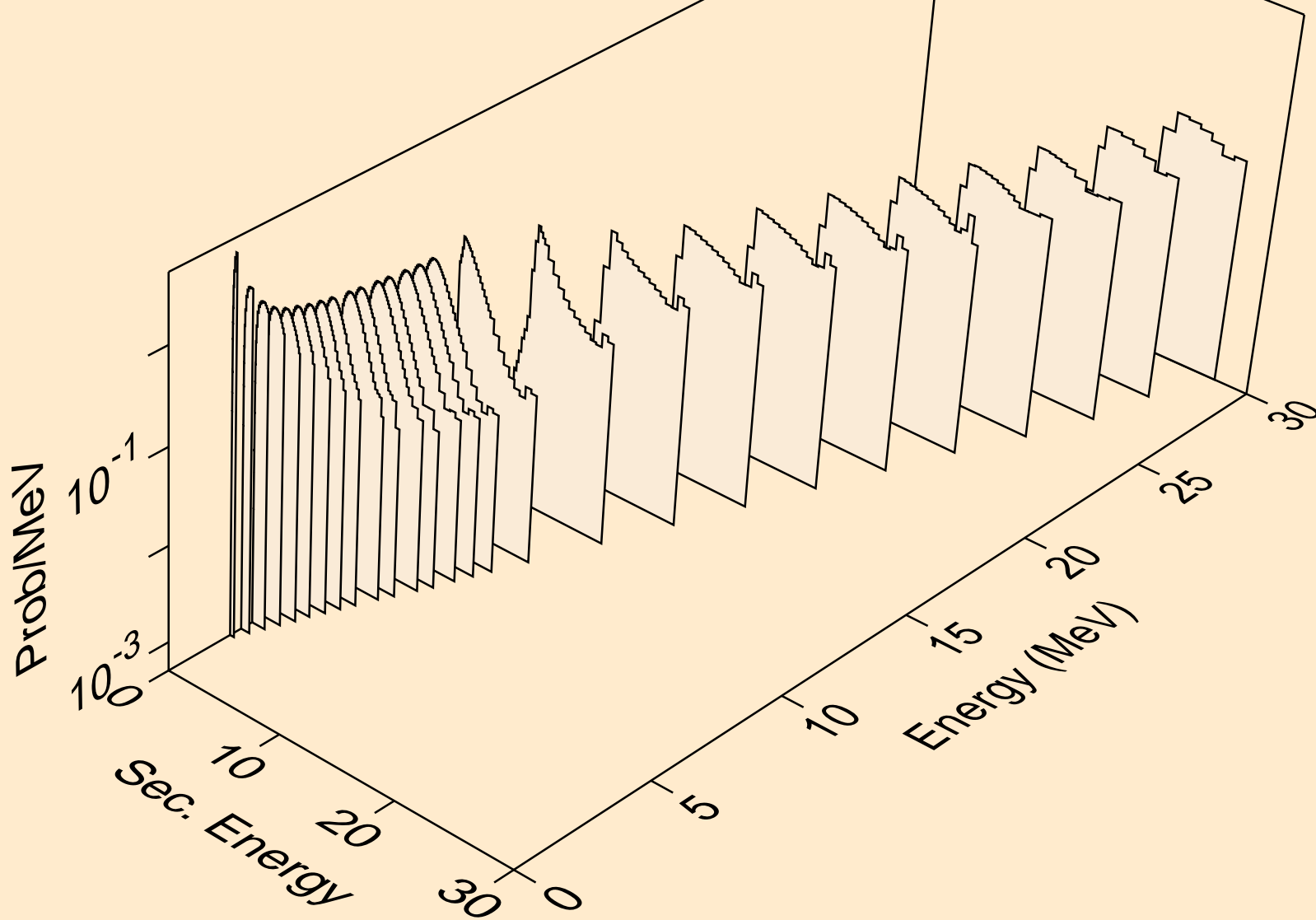
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Neutron emission for (n,2np)



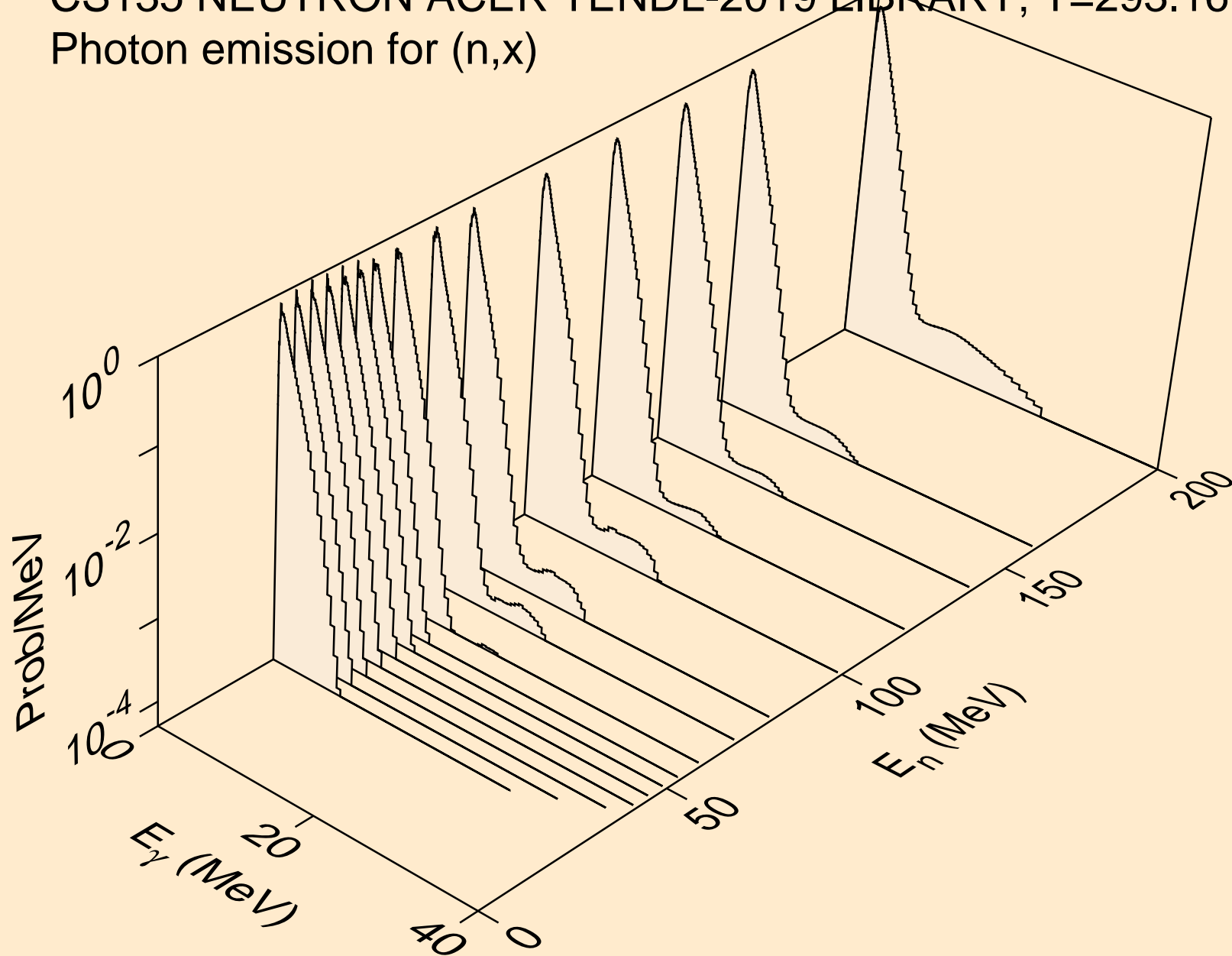
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Neutron emission for (n,npa)



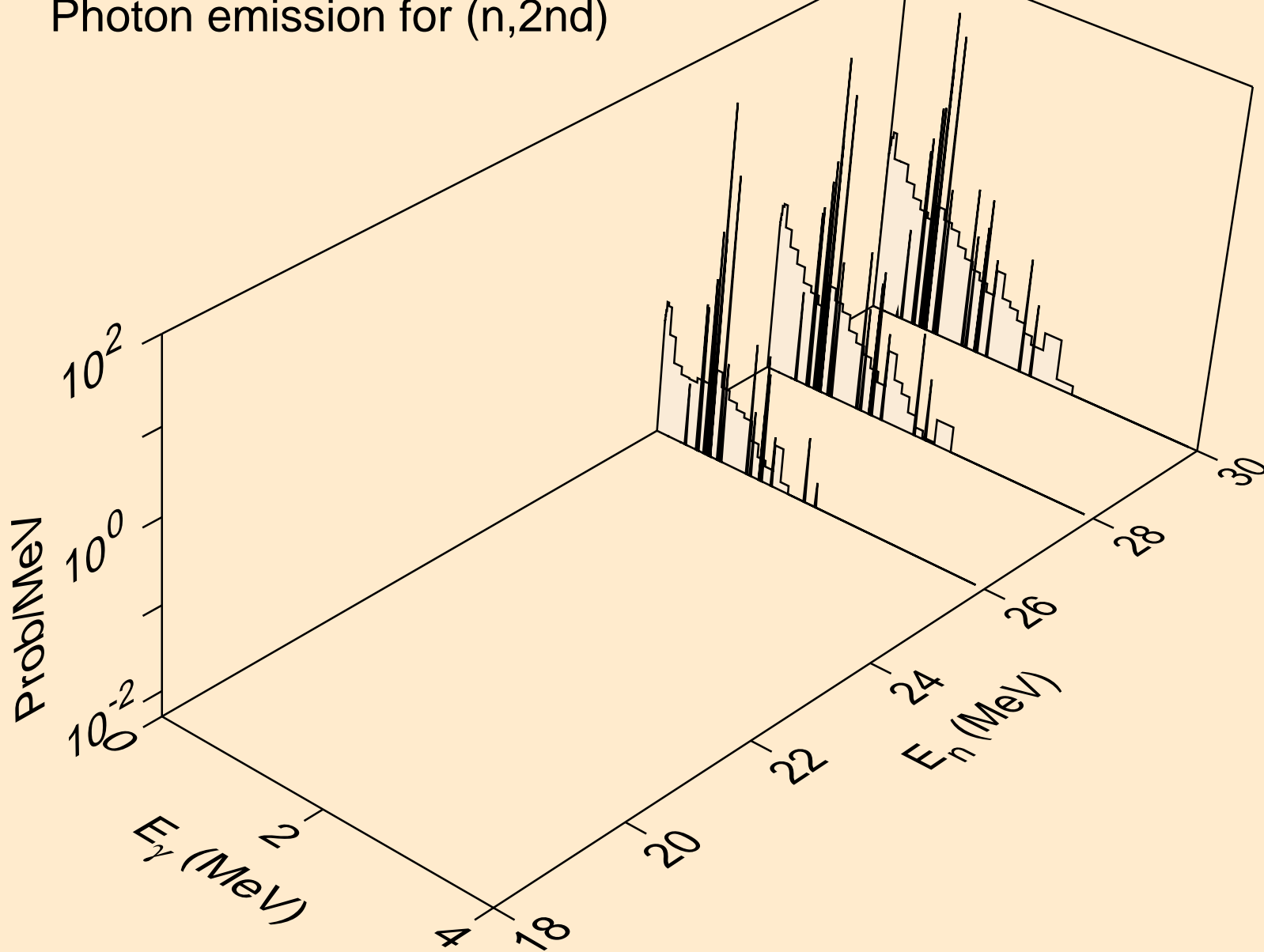
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Neutron emission for (n,n\*c)



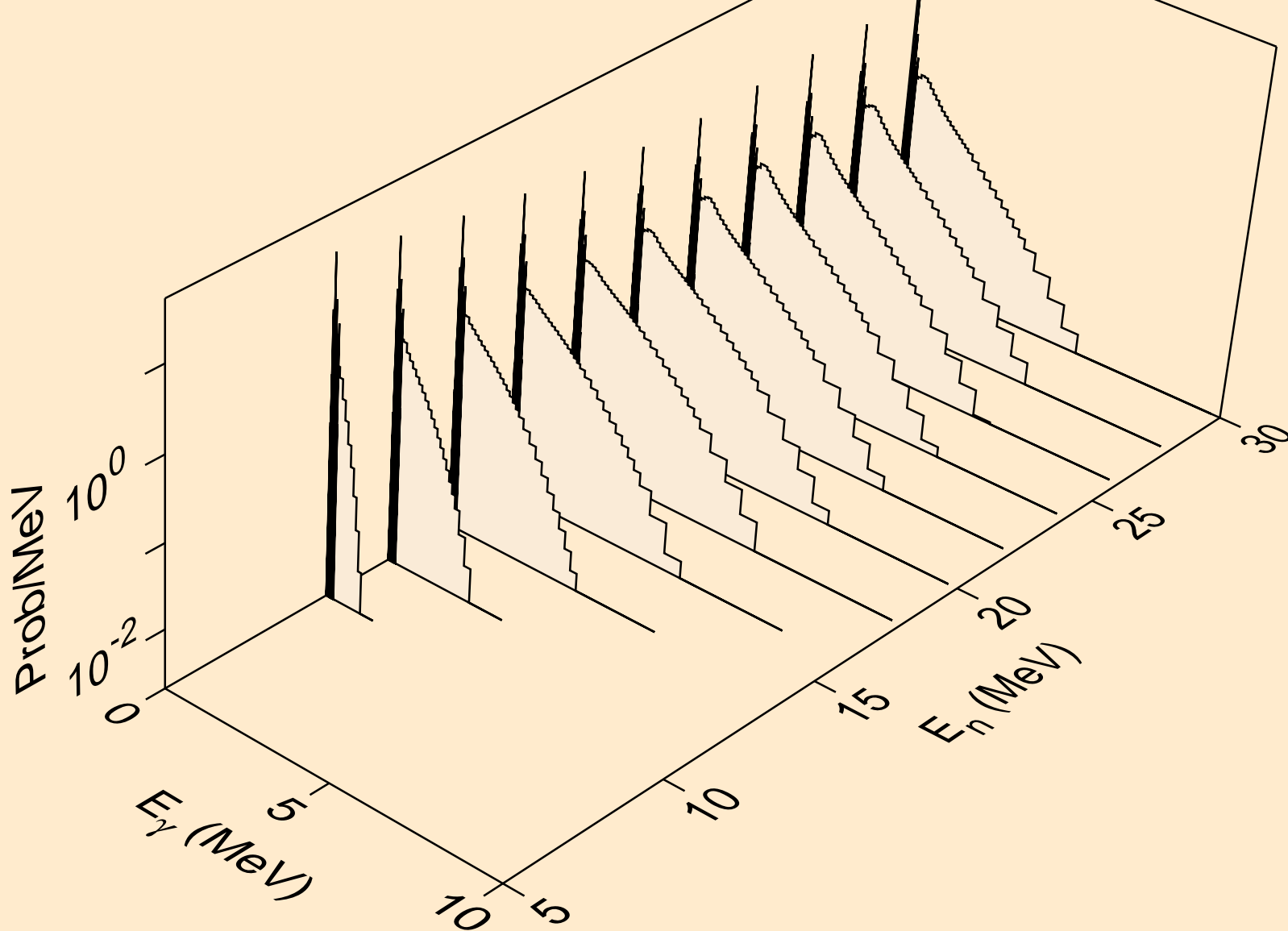
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Photon emission for (n,x)



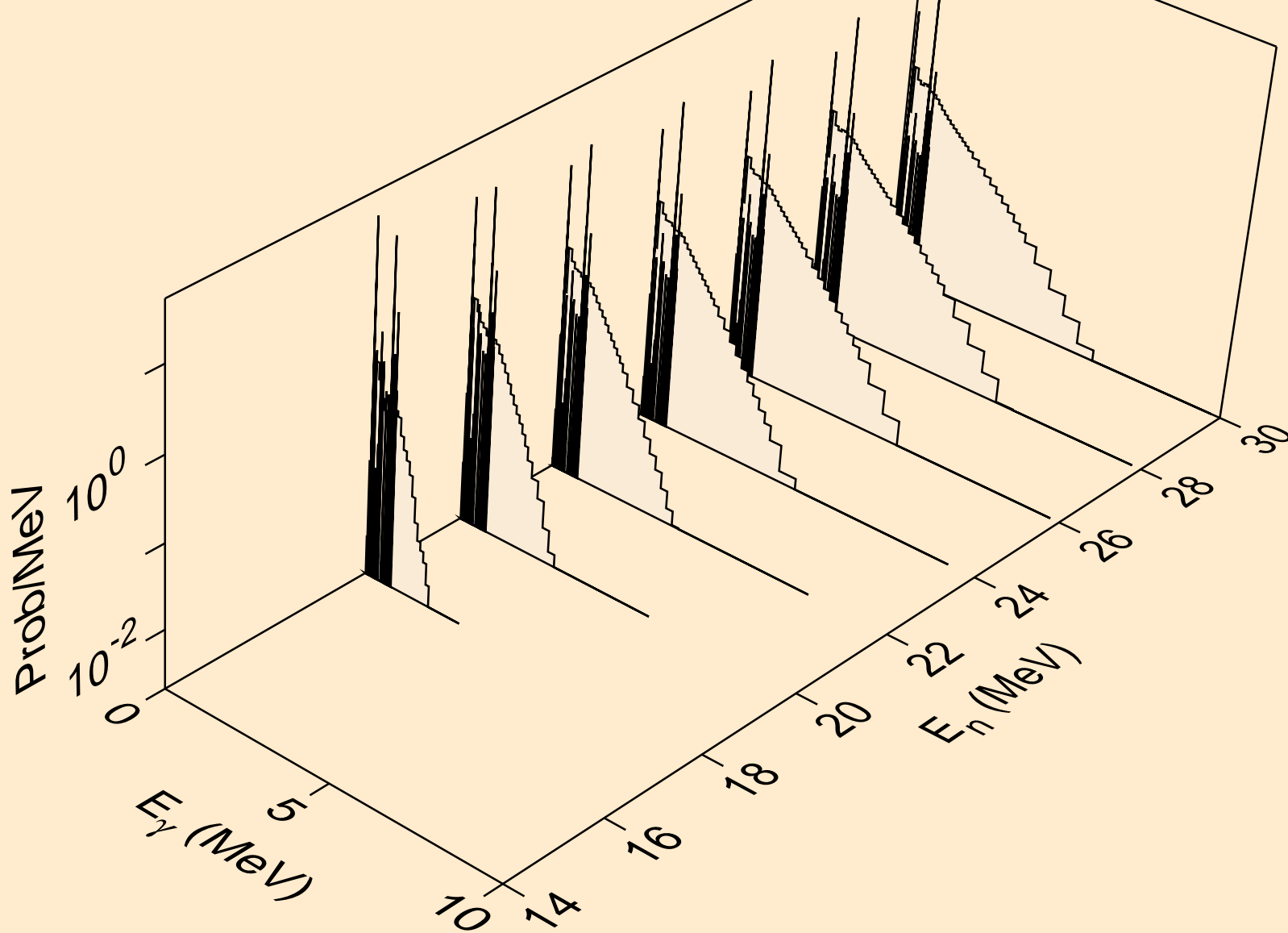
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)

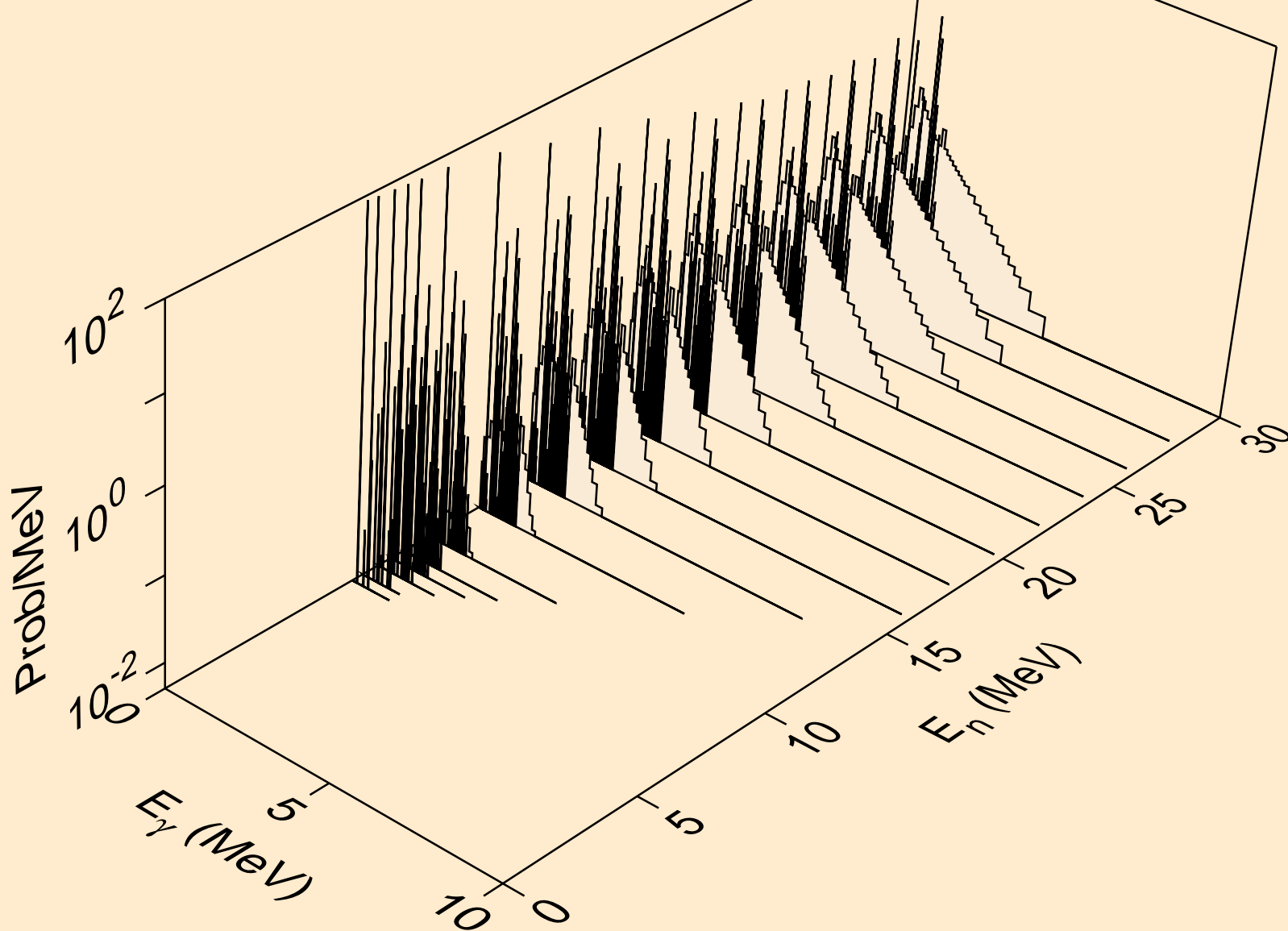


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Photon emission for (n,3n)

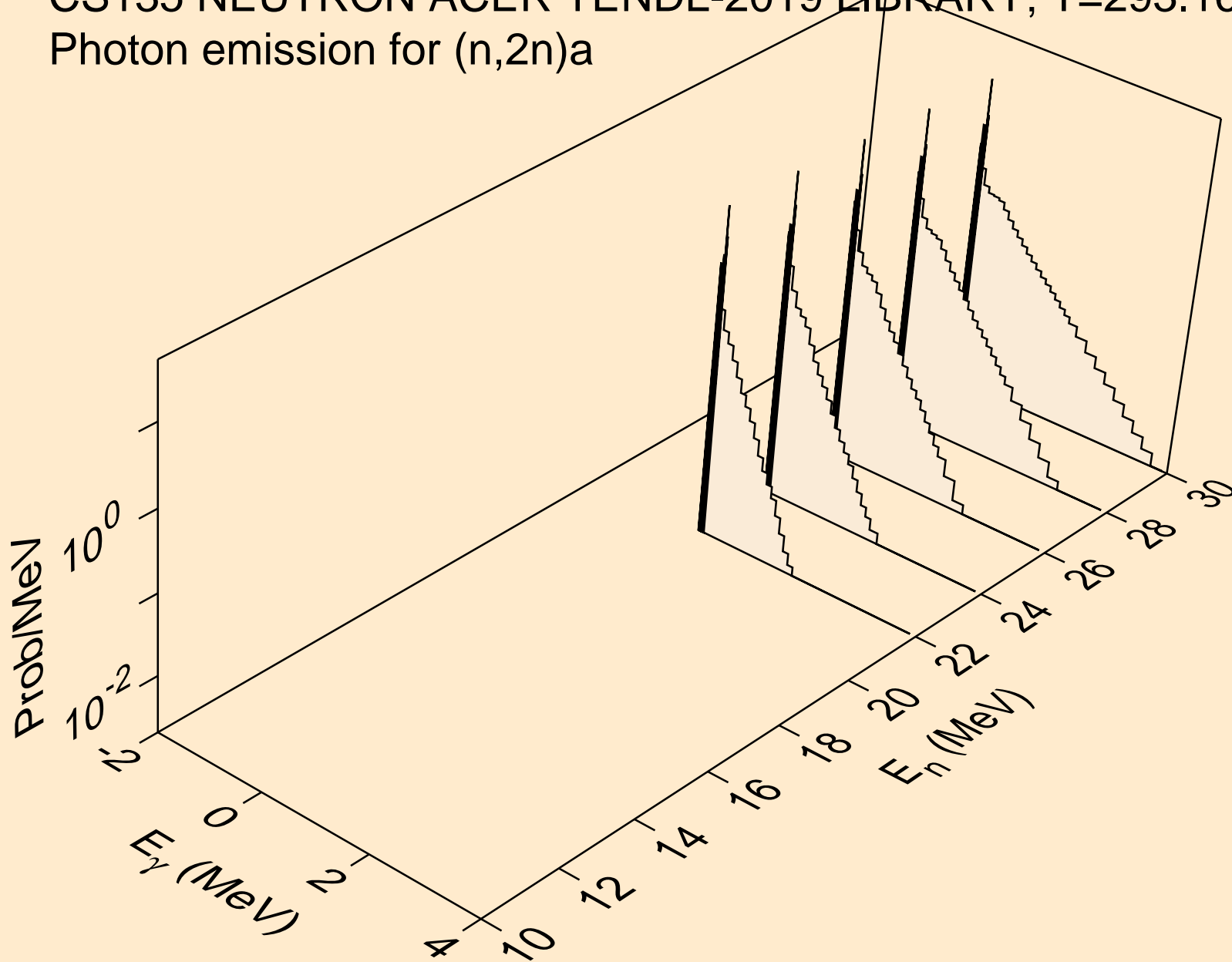




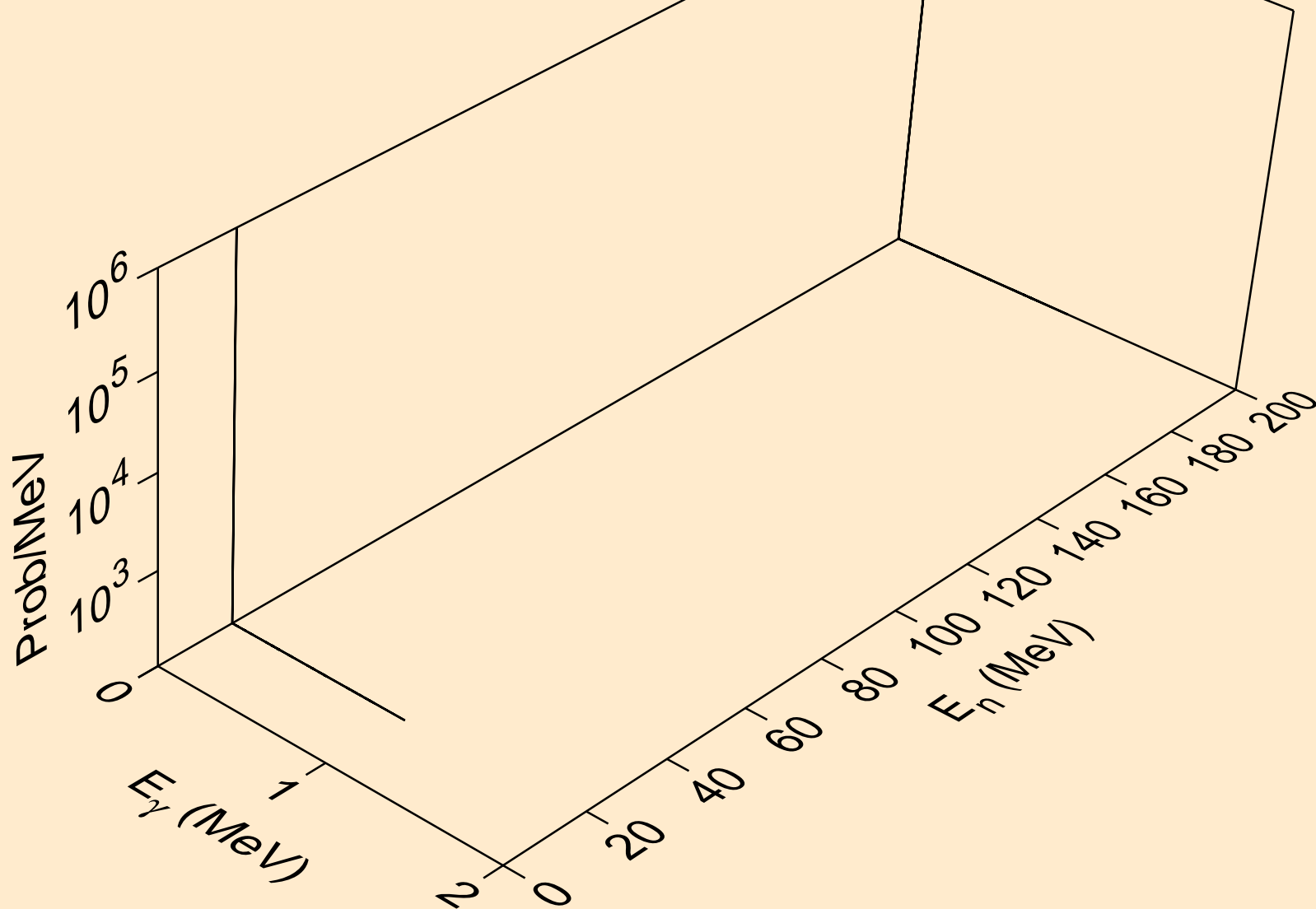
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Photon emission for (n,n\*)a



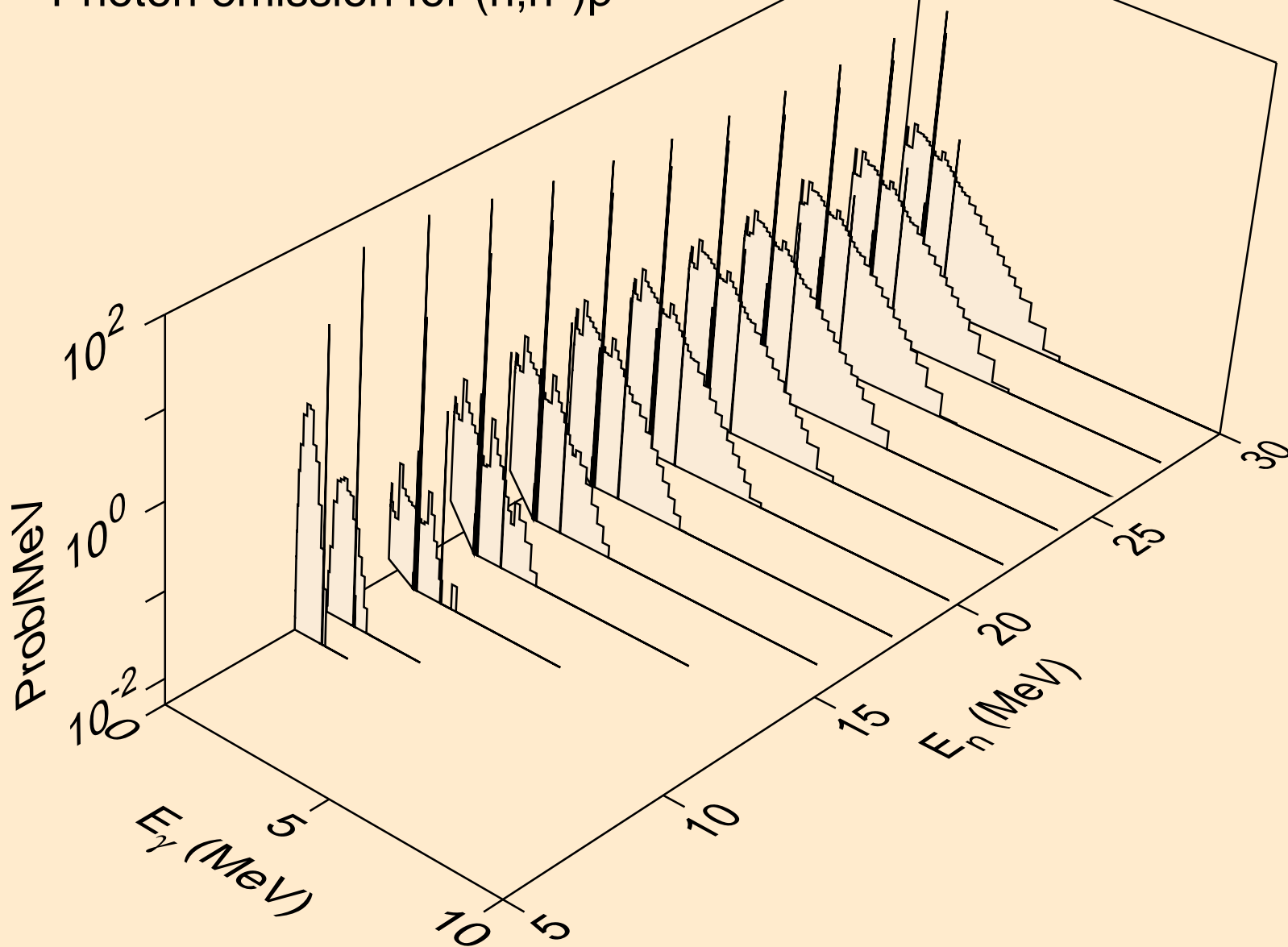
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Photon emission for (n,2n)a



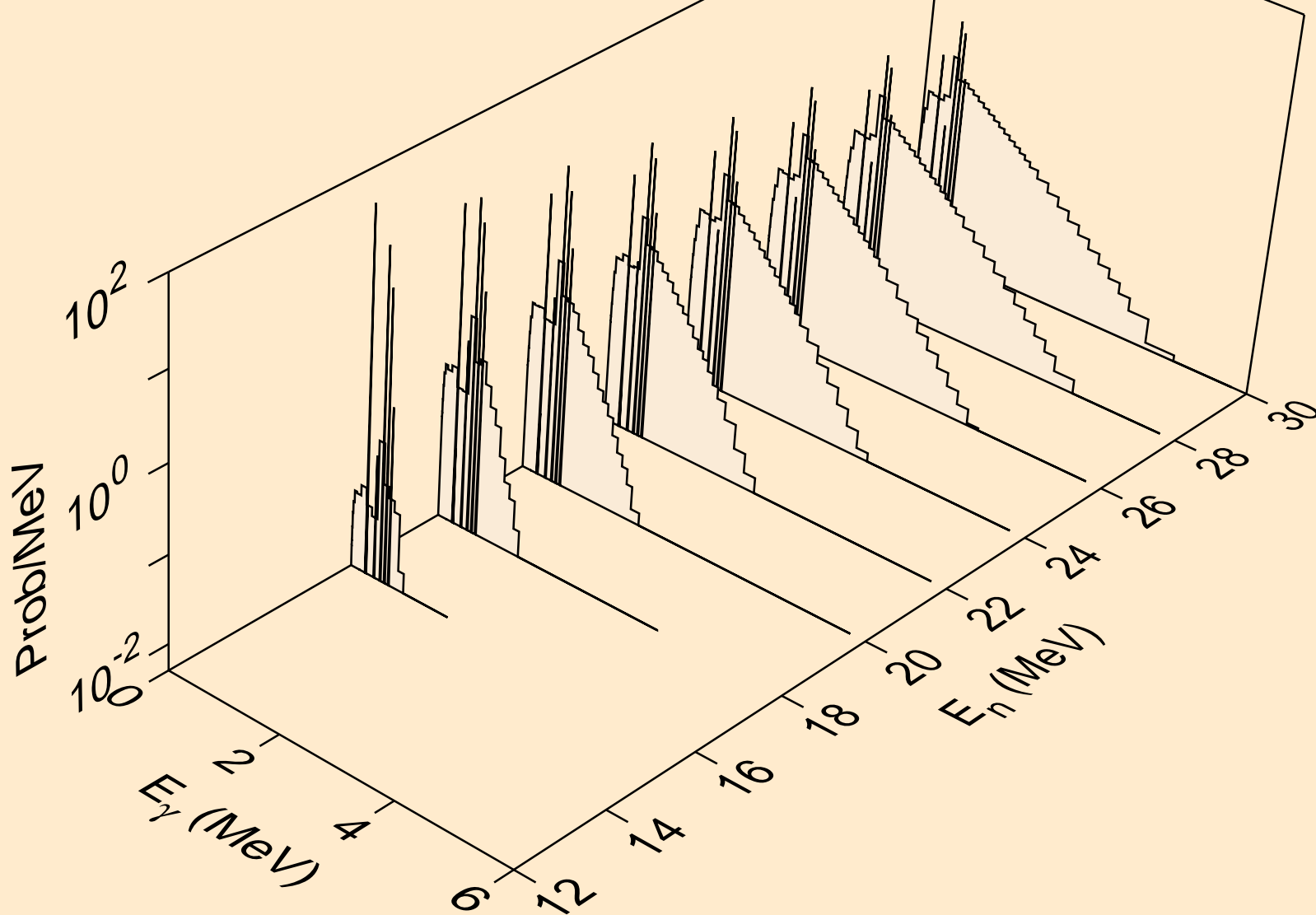
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Photon emission for (n,3n)a



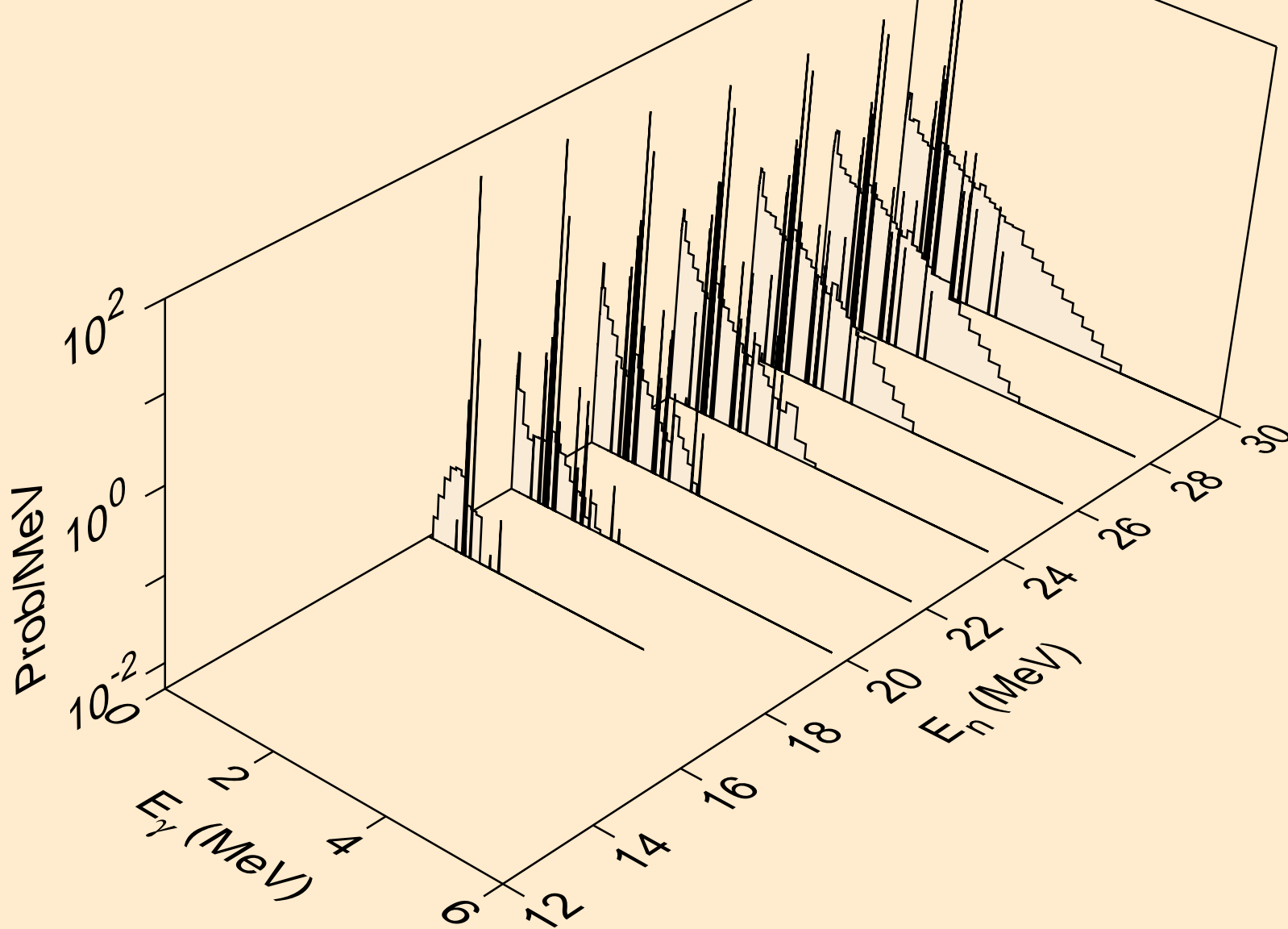
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Photon emission for (n,n\*)p



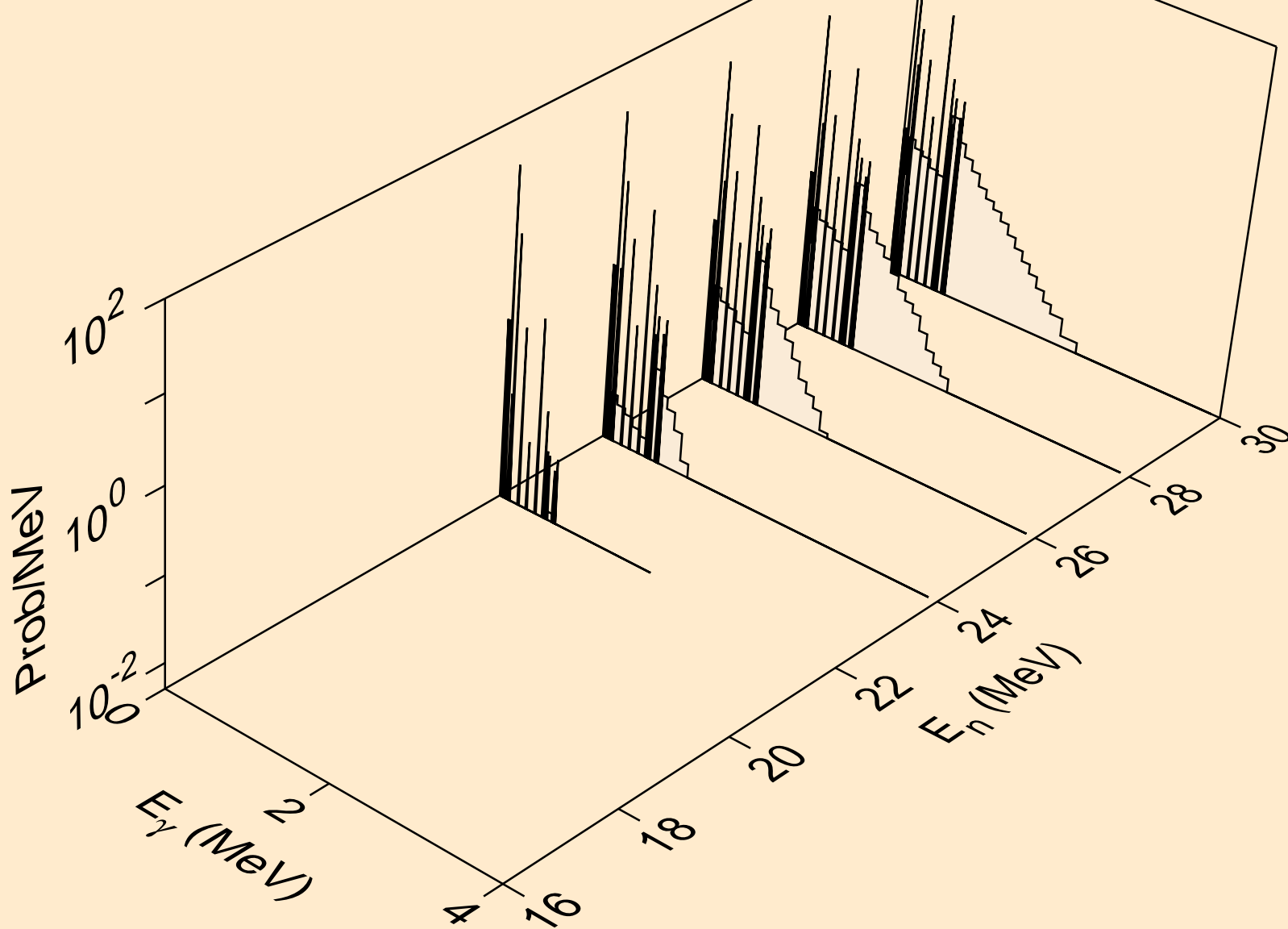
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Photon emission for (n,n\*)d



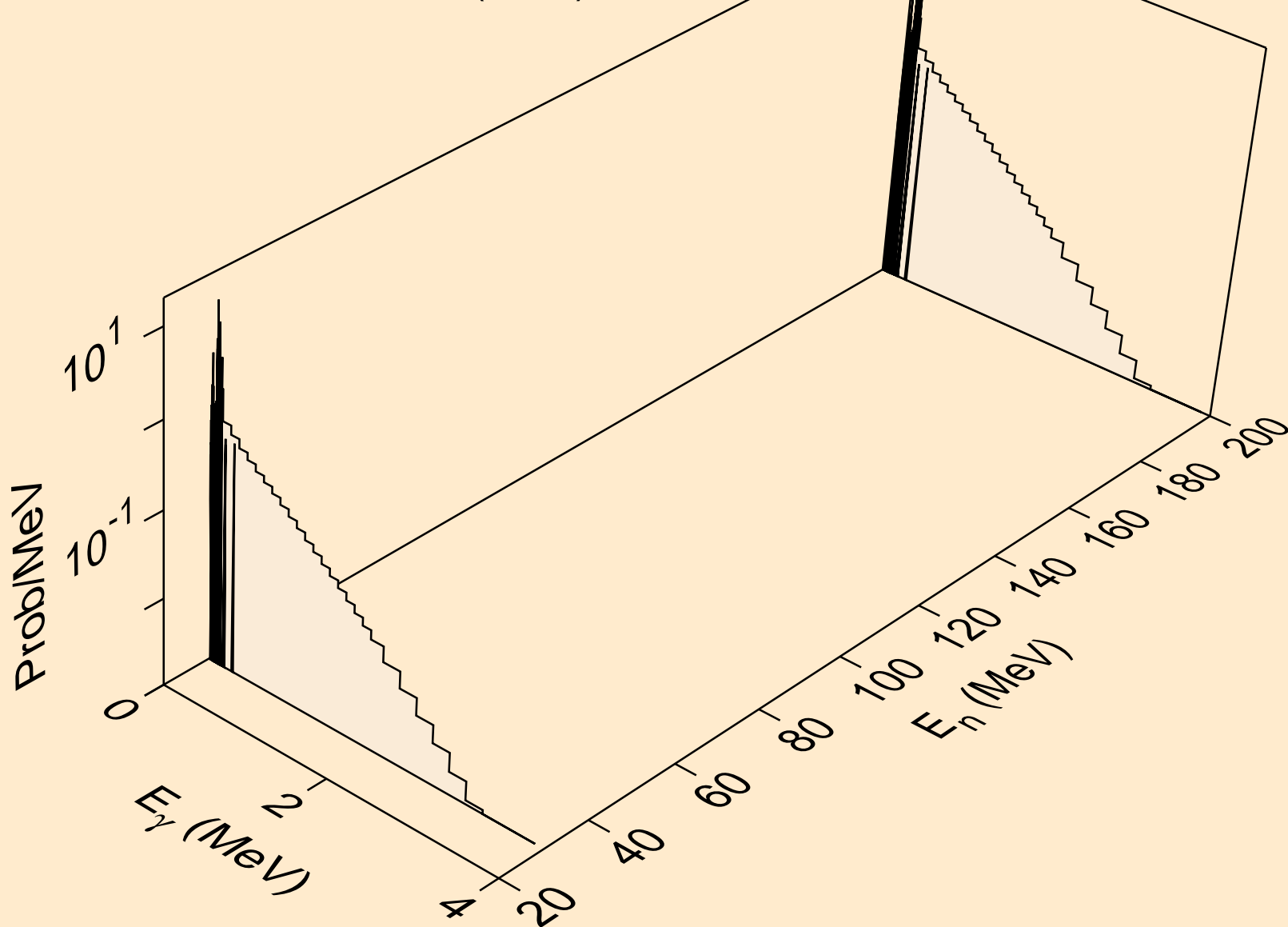
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Photon emission for (n,n\*)t



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

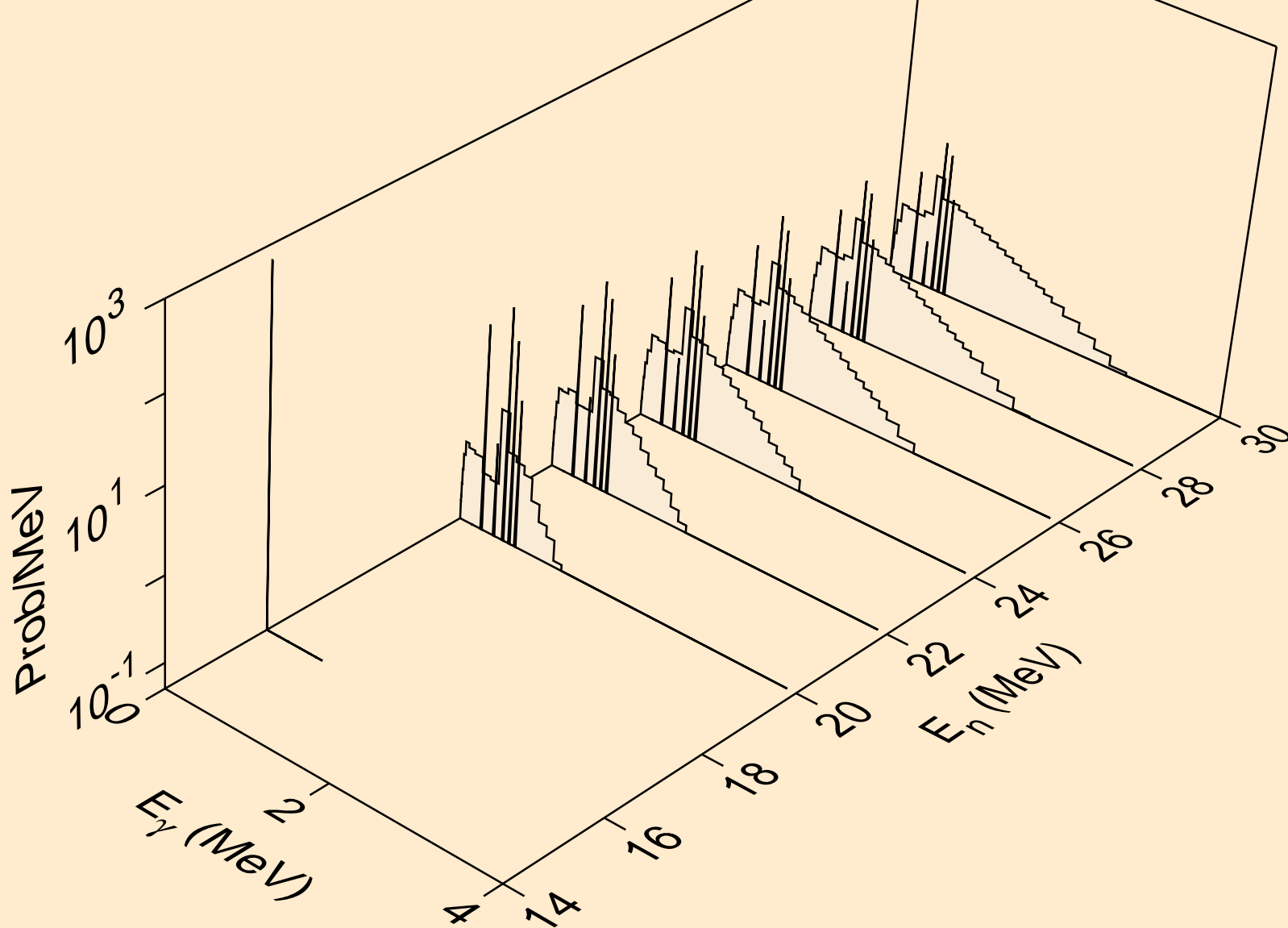


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Photon emission for (n,4n)

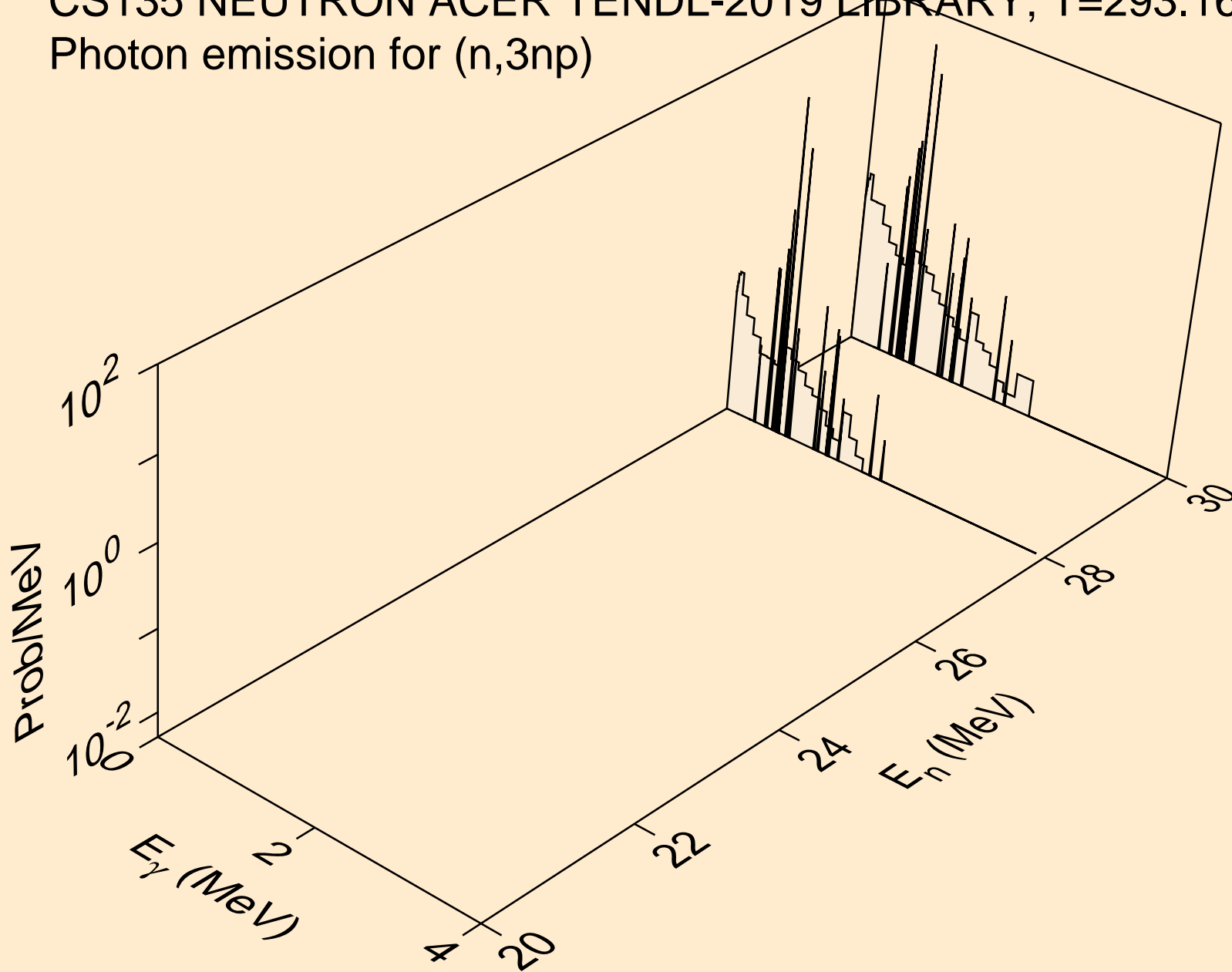




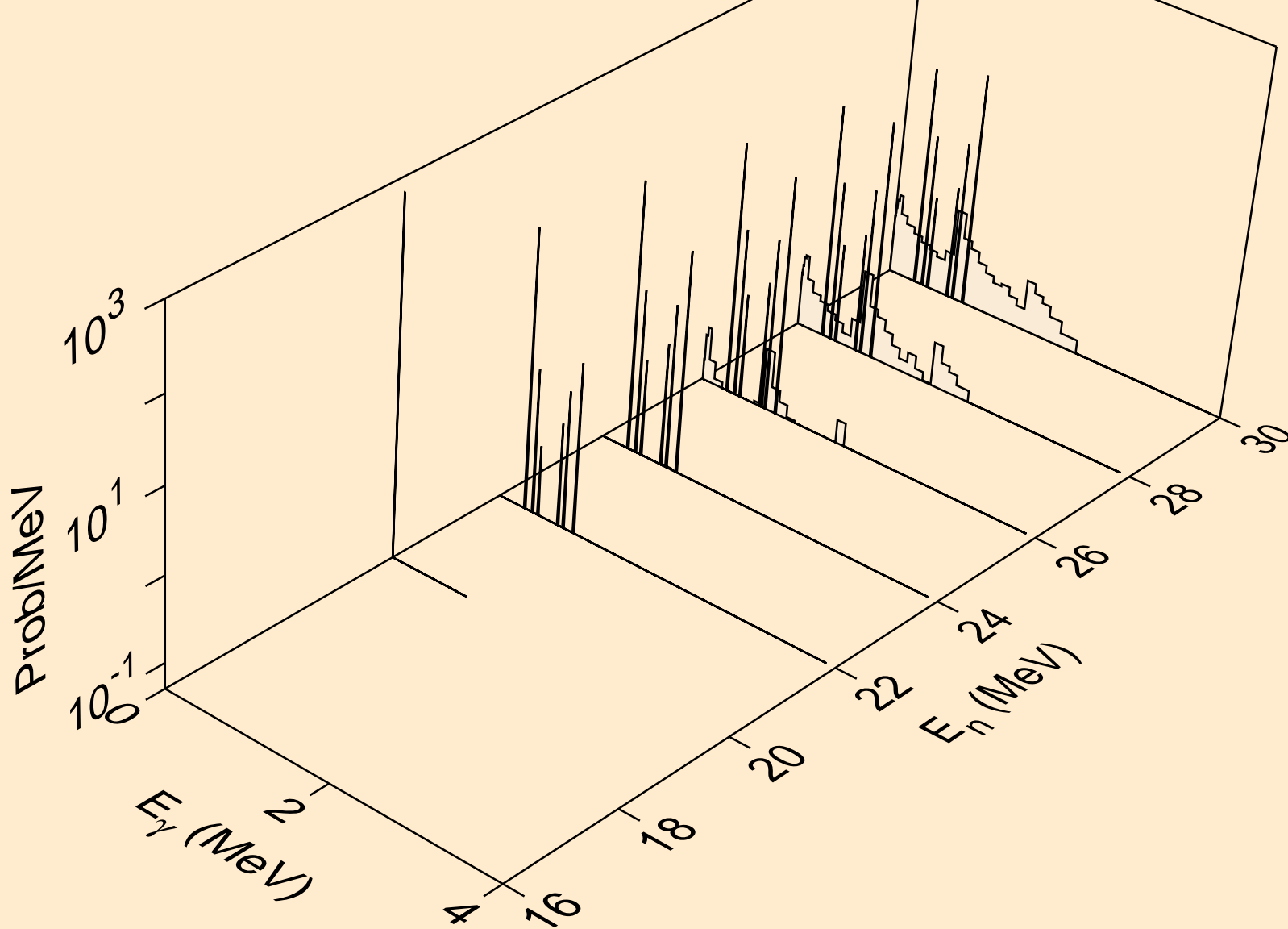
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Photon emission for (n,2np)



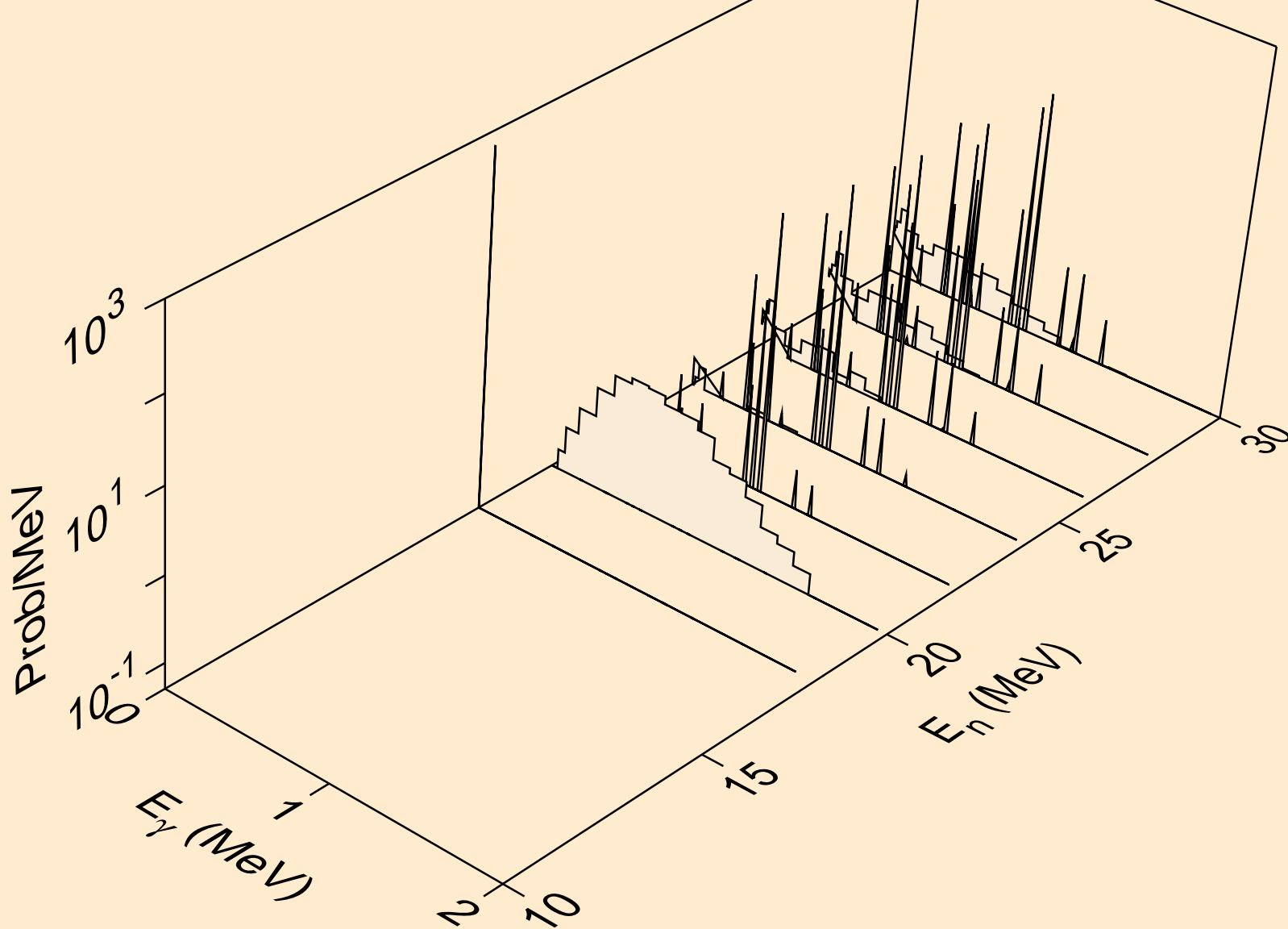
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Photon emission for (n,3np)



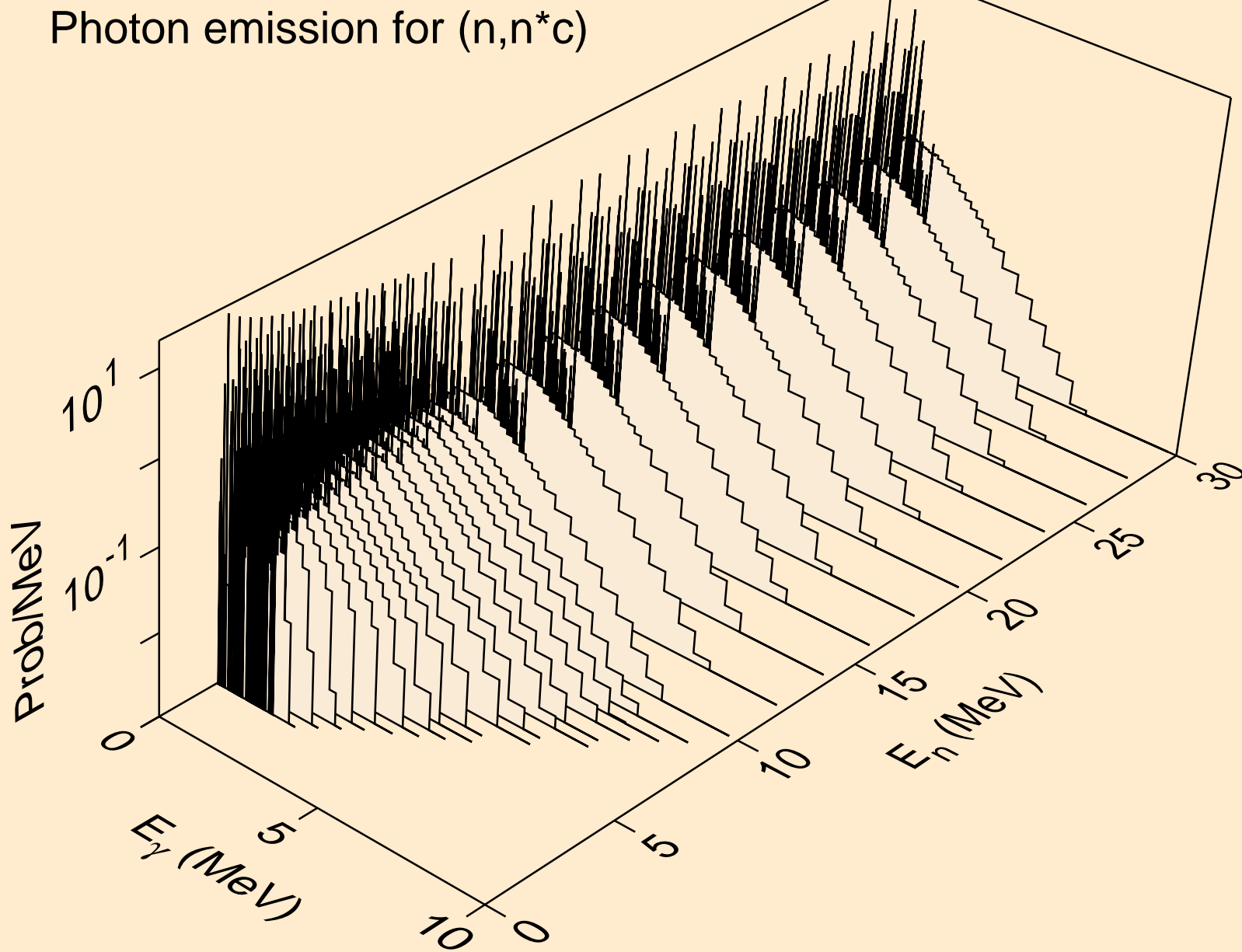
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Photon emission for (n,2np)



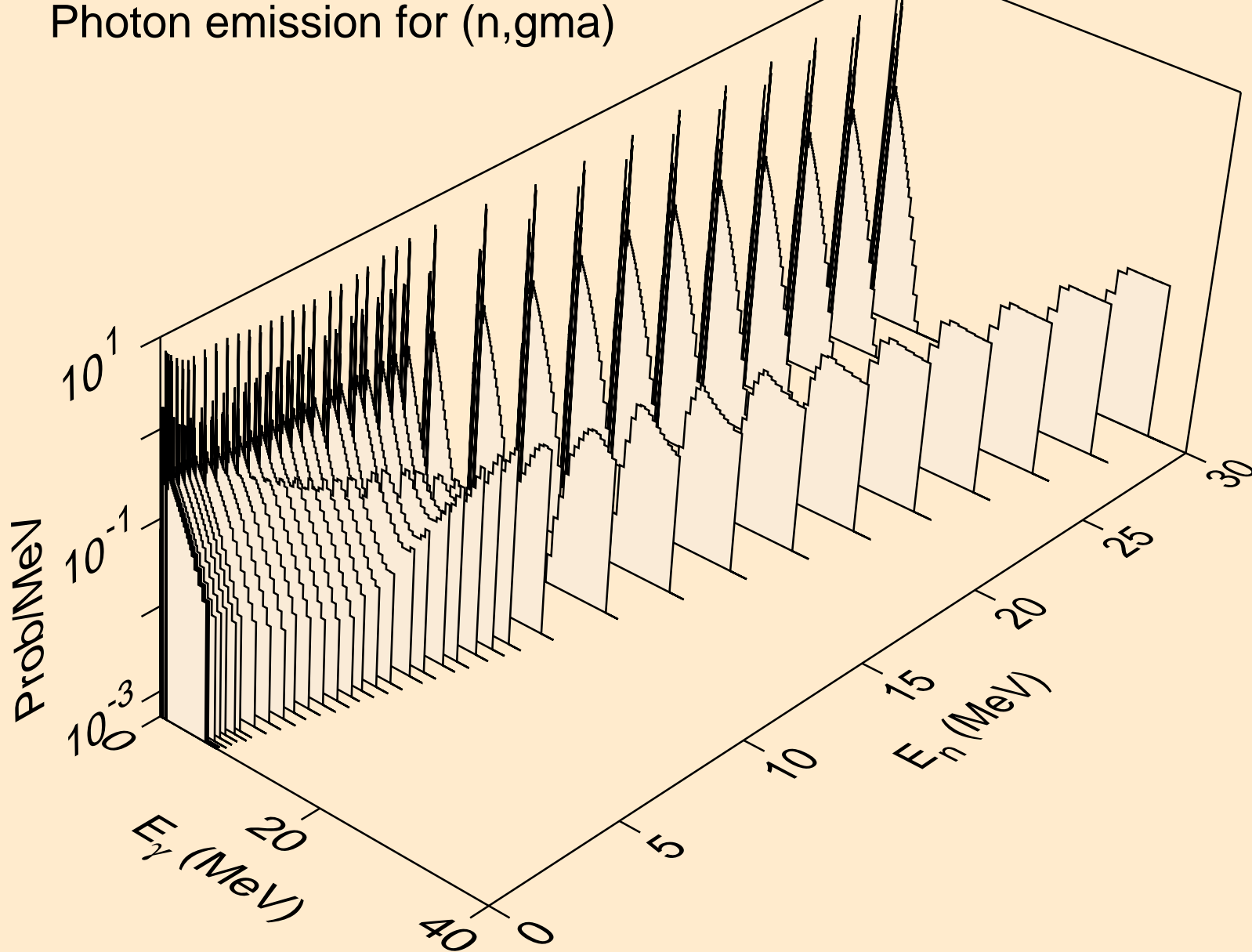
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Photon emission for (n,npa)



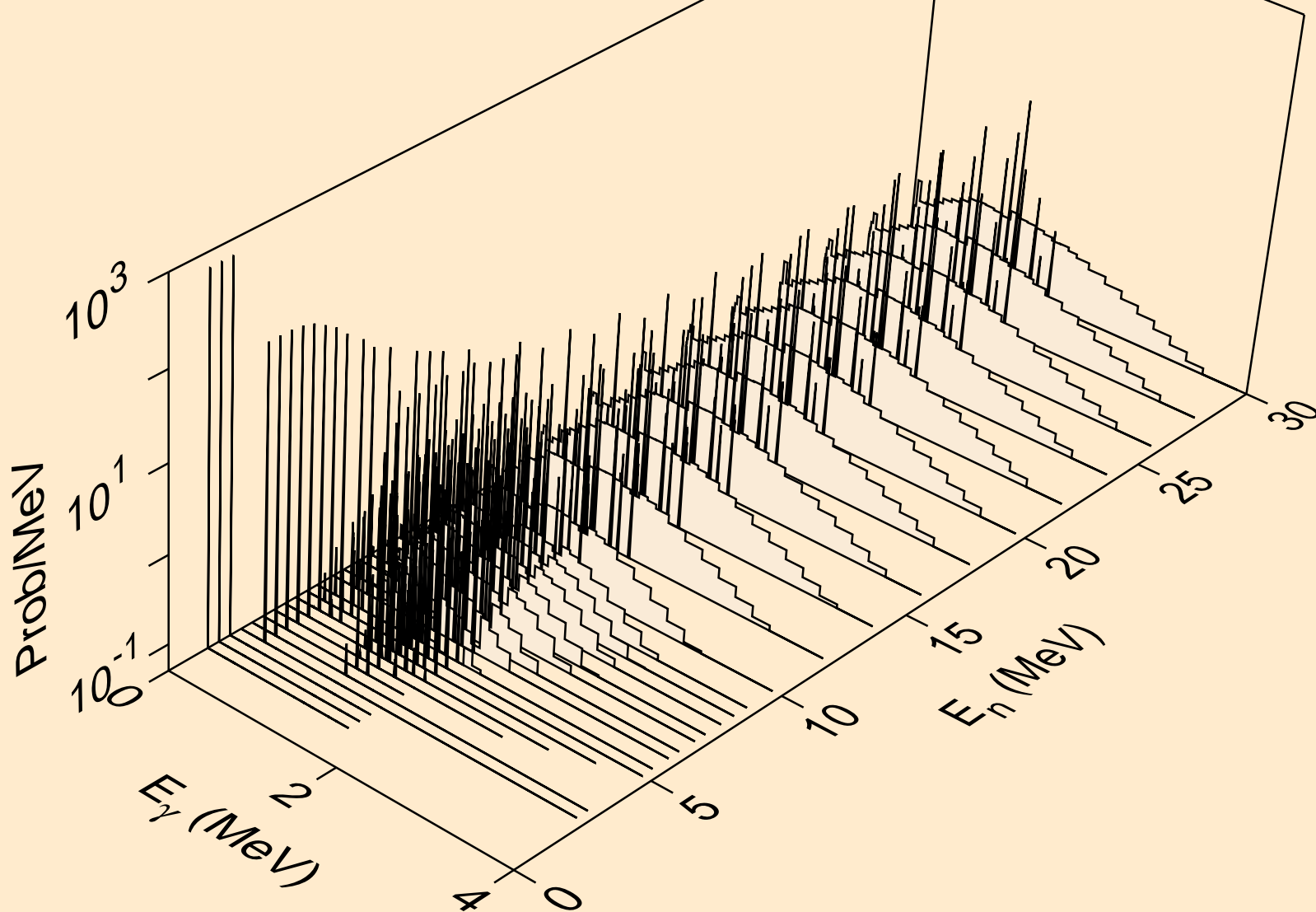
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Photon emission for (n,n\*c)



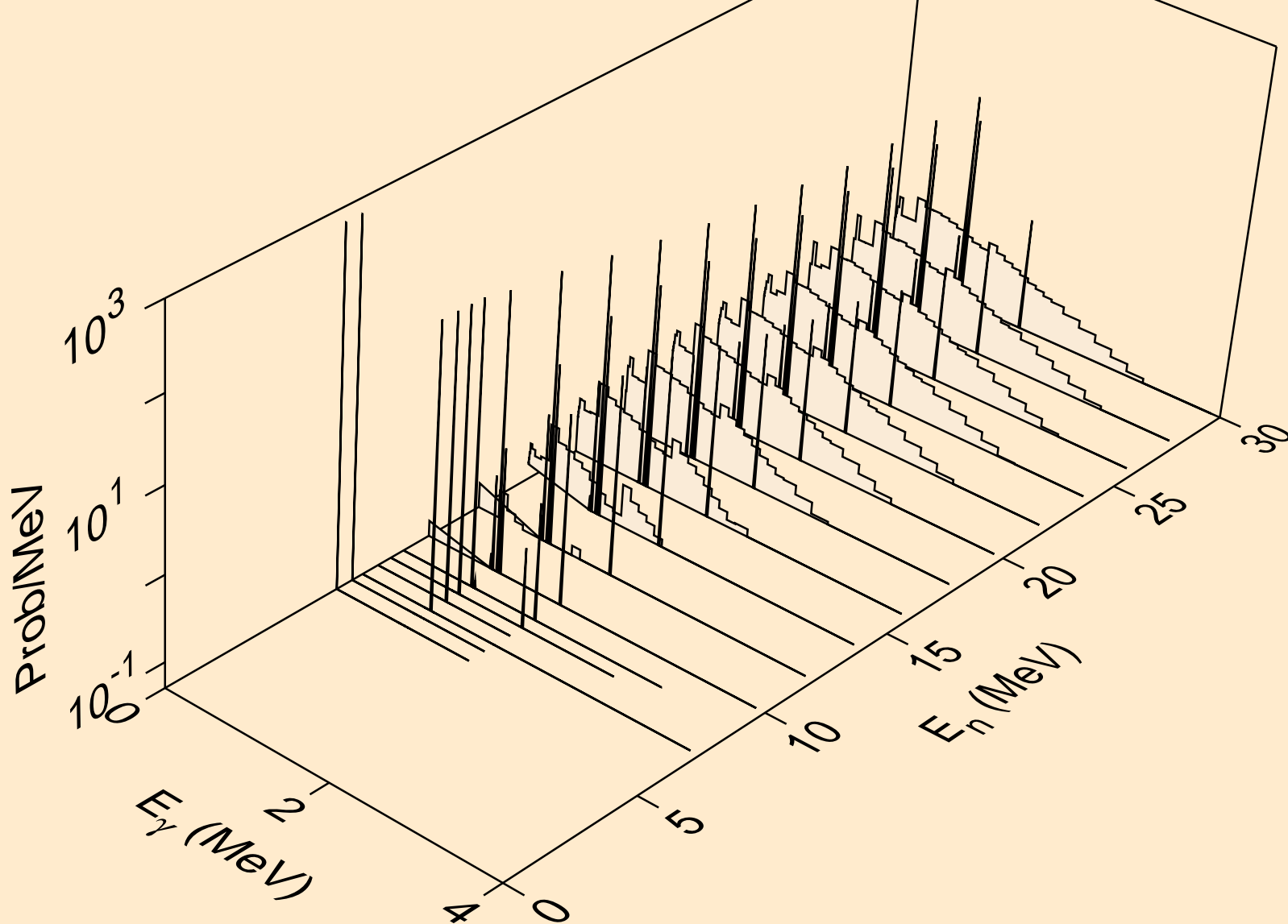
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Photon emission for (n,gma)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)

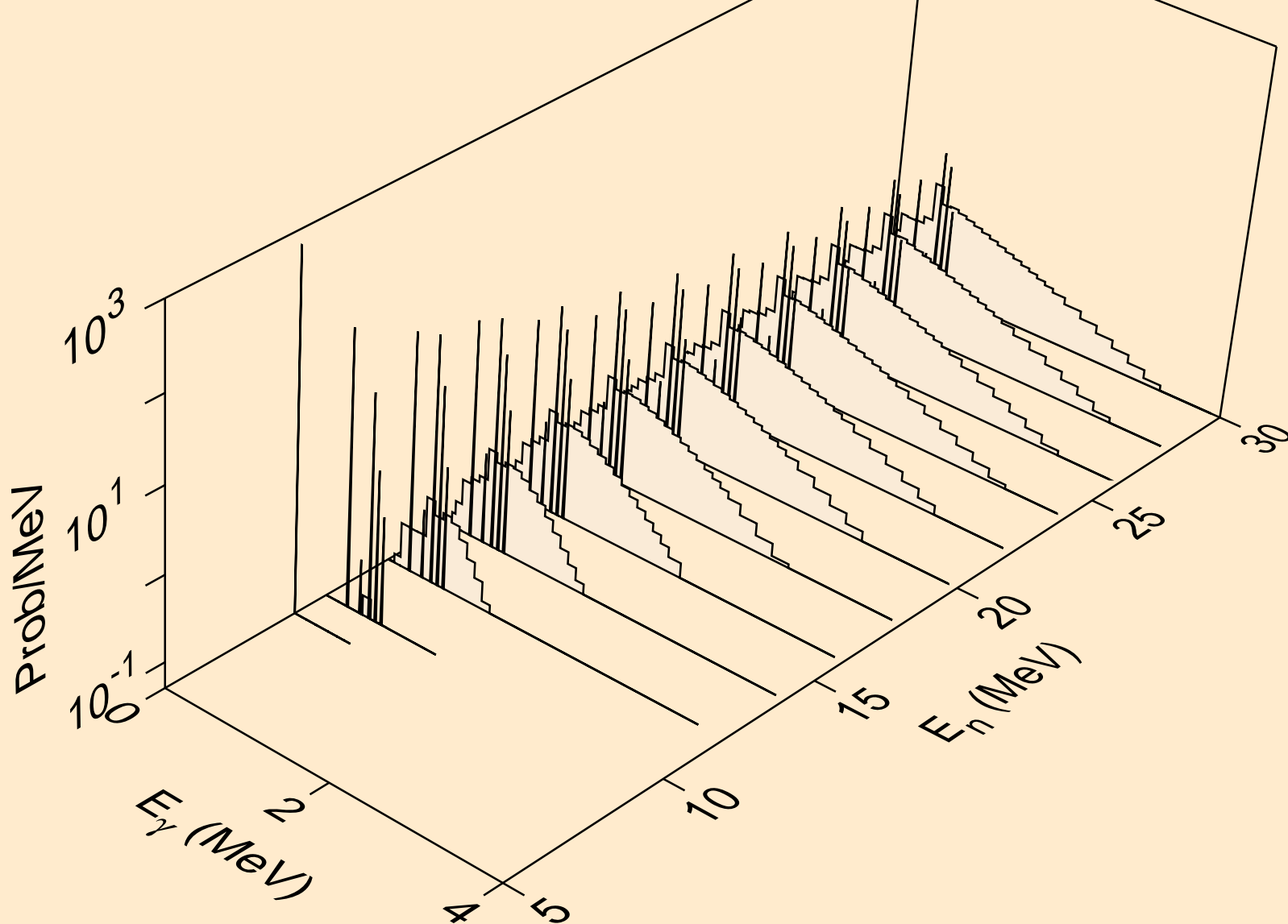


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Photon emission for (n,d)

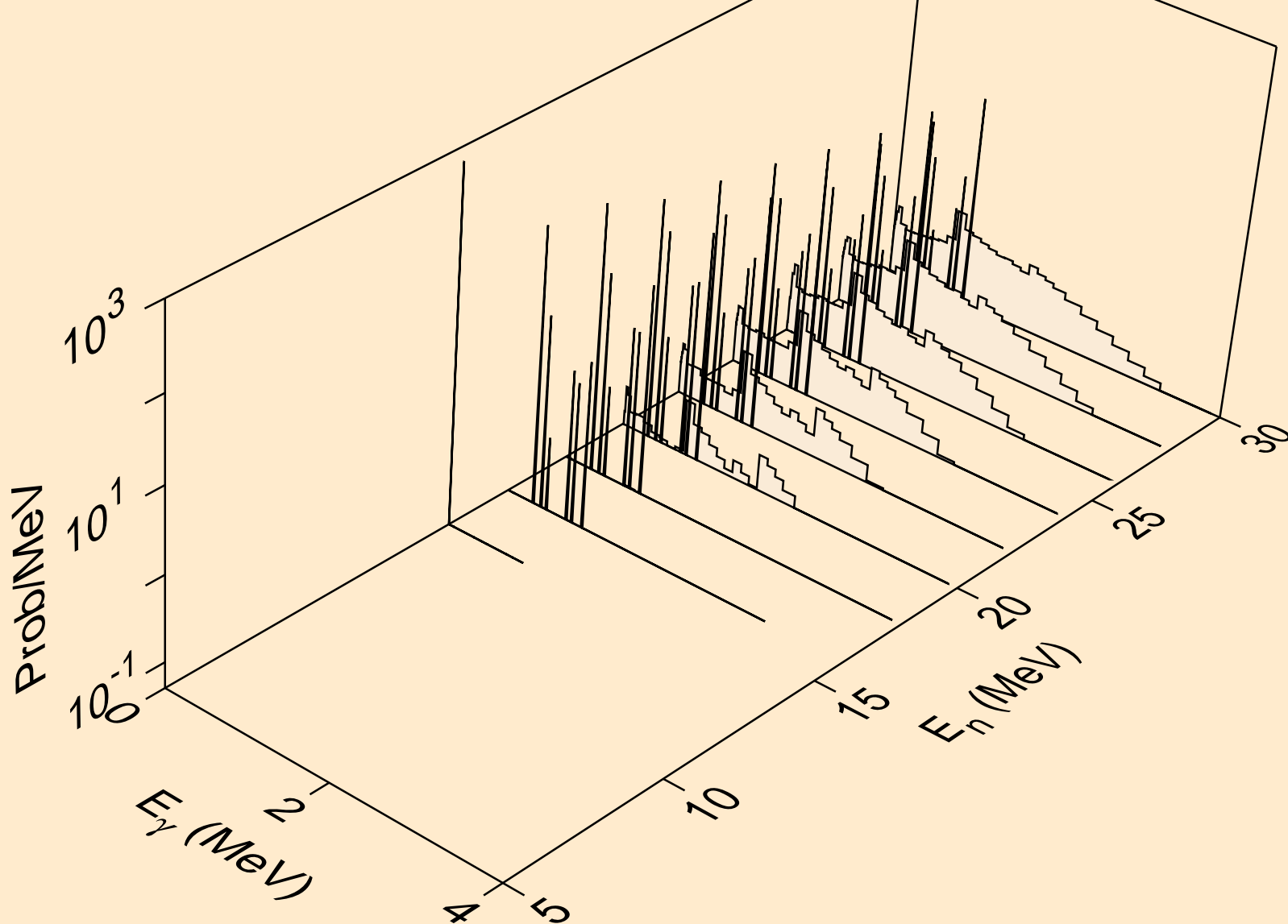




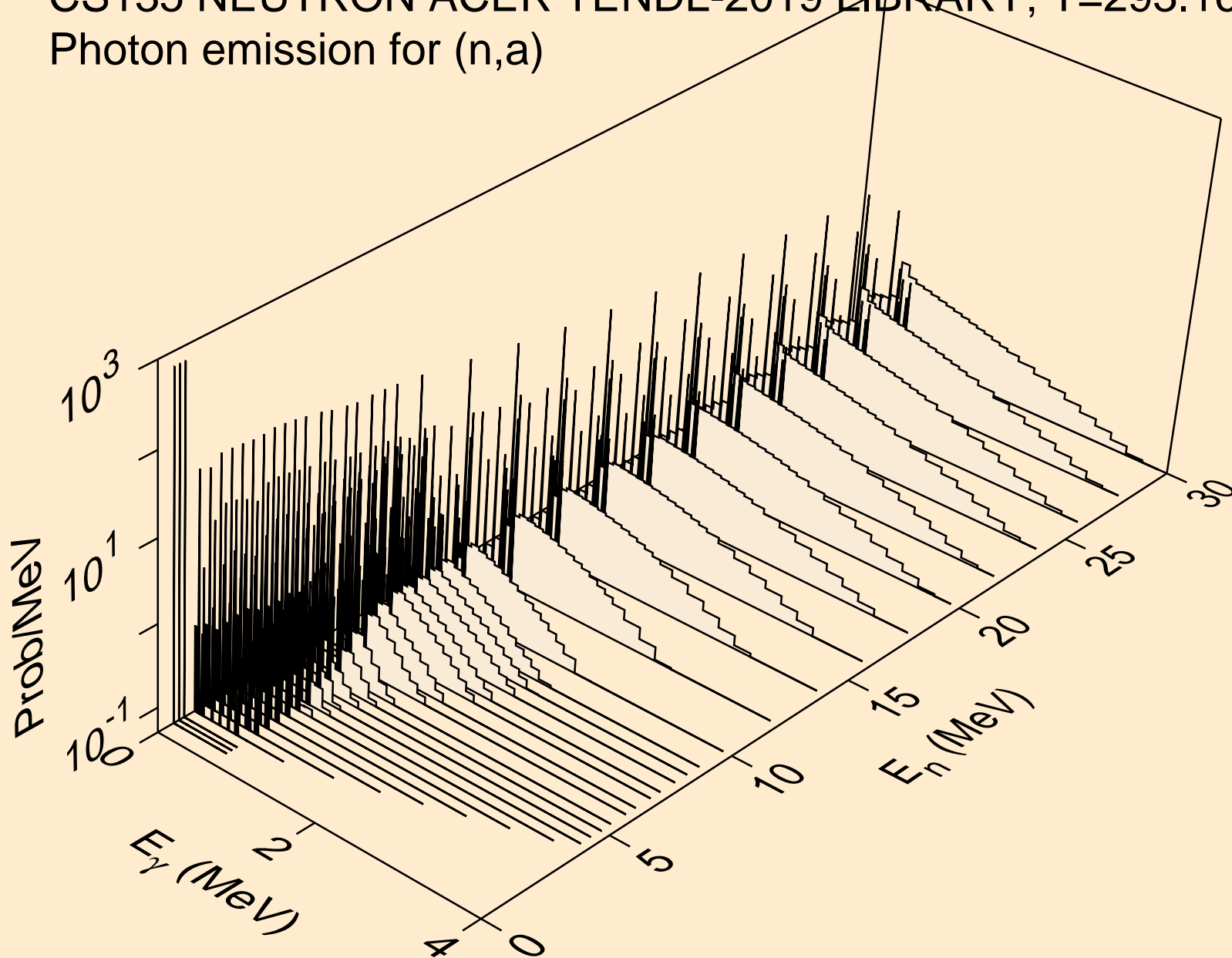
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Photon emission for (n,t)



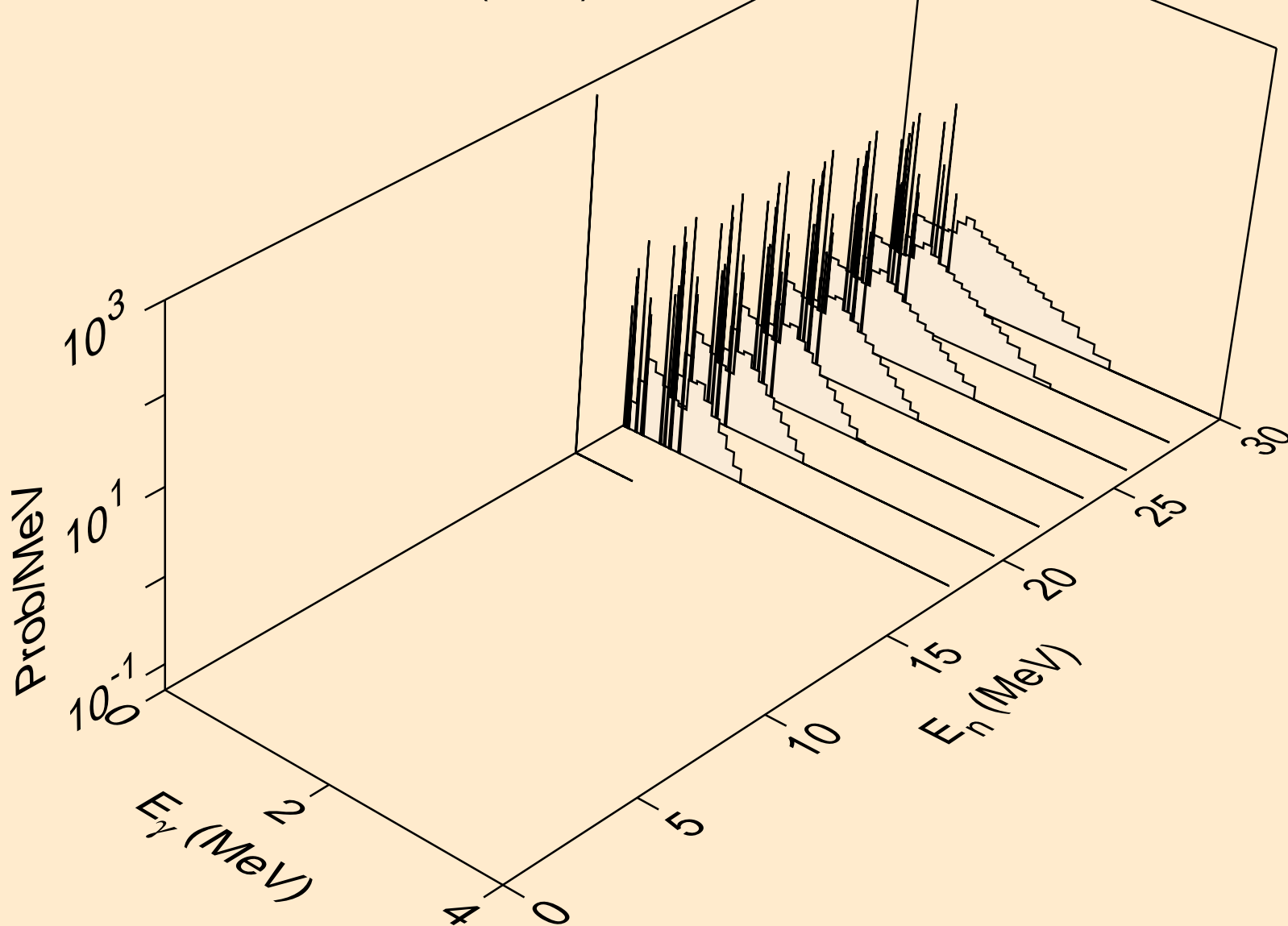
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Photon emission for (n,he3)



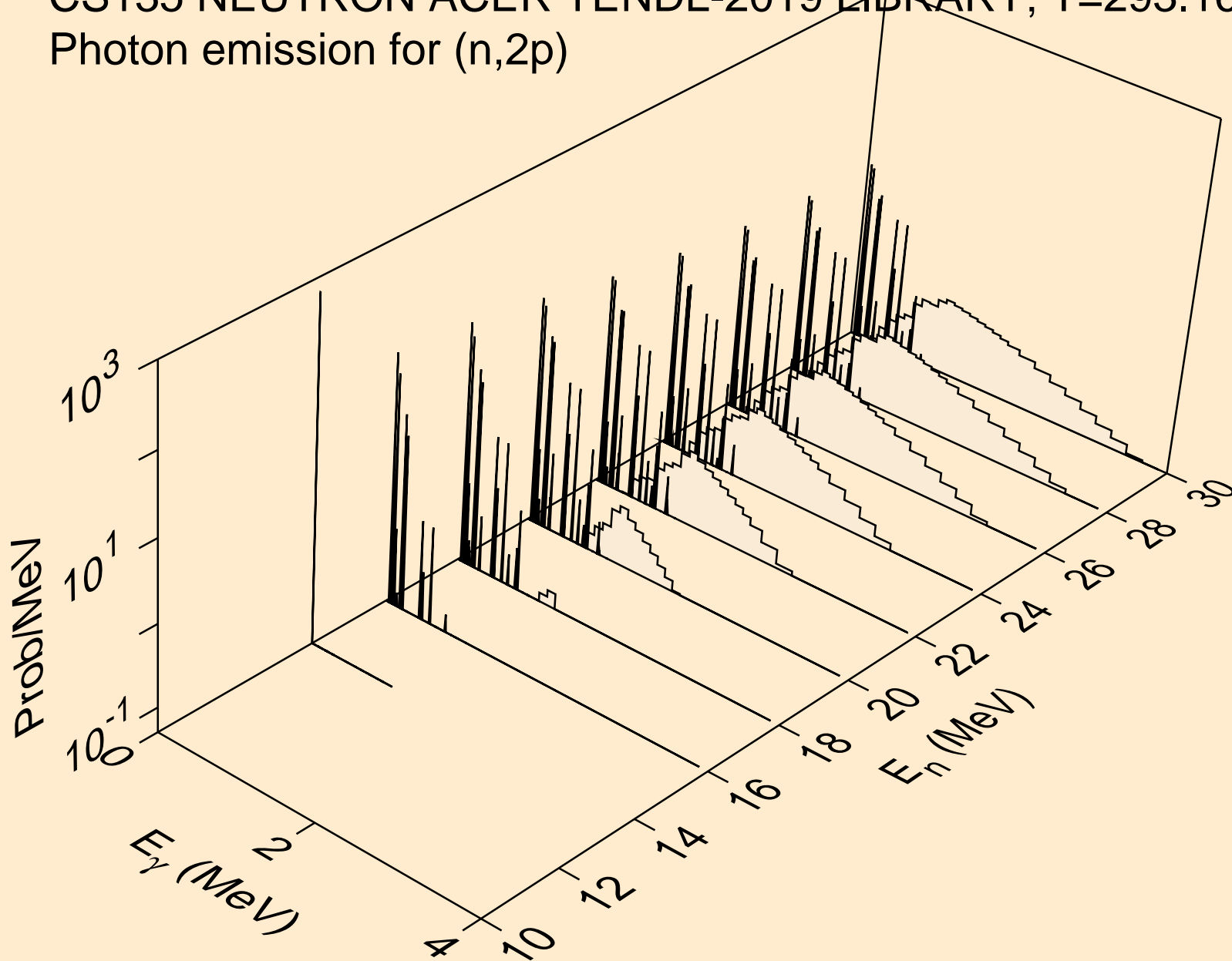
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Photon emission for (n,a)



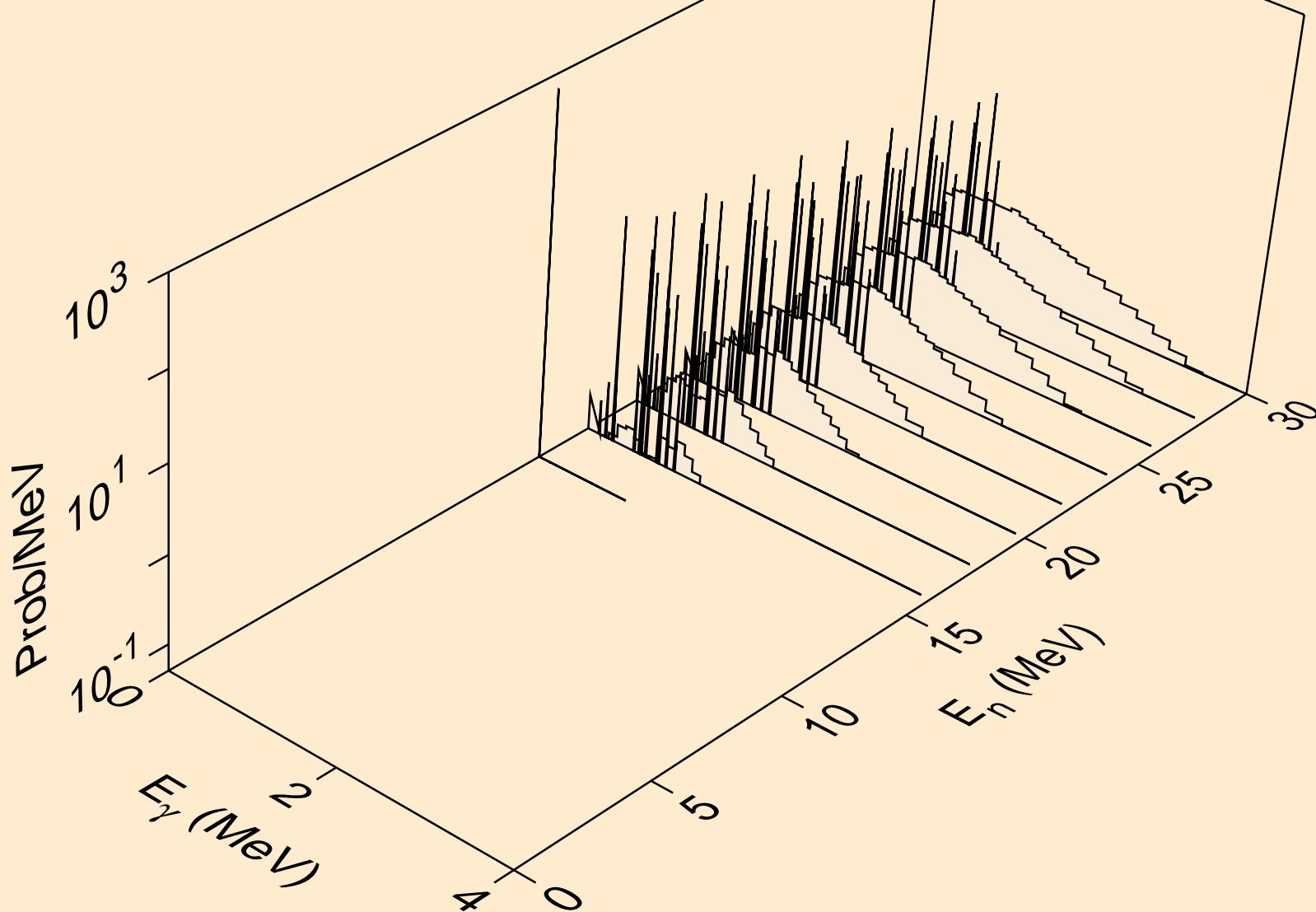
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Photon emission for (n,2a)



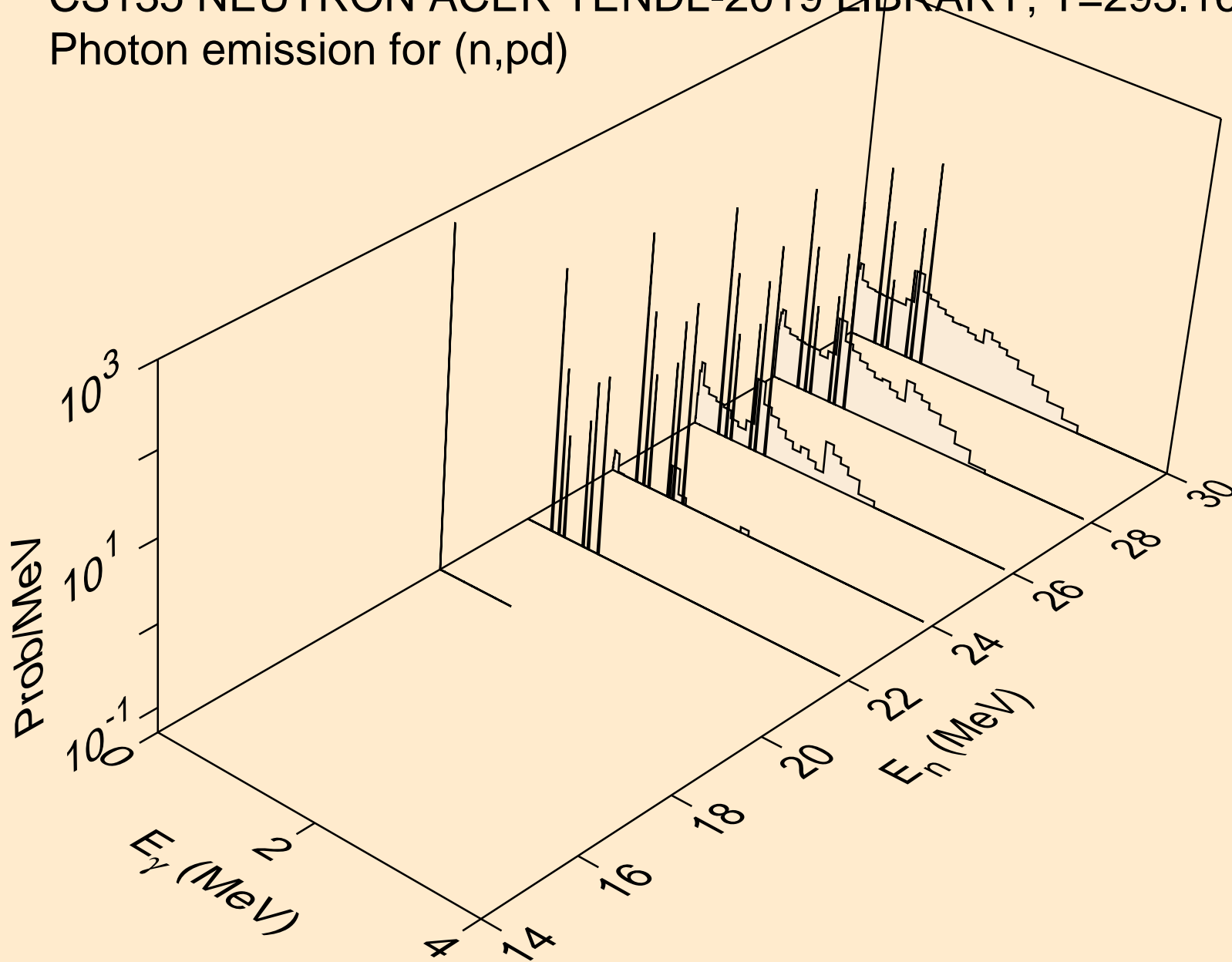
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Photon emission for (n,2p)



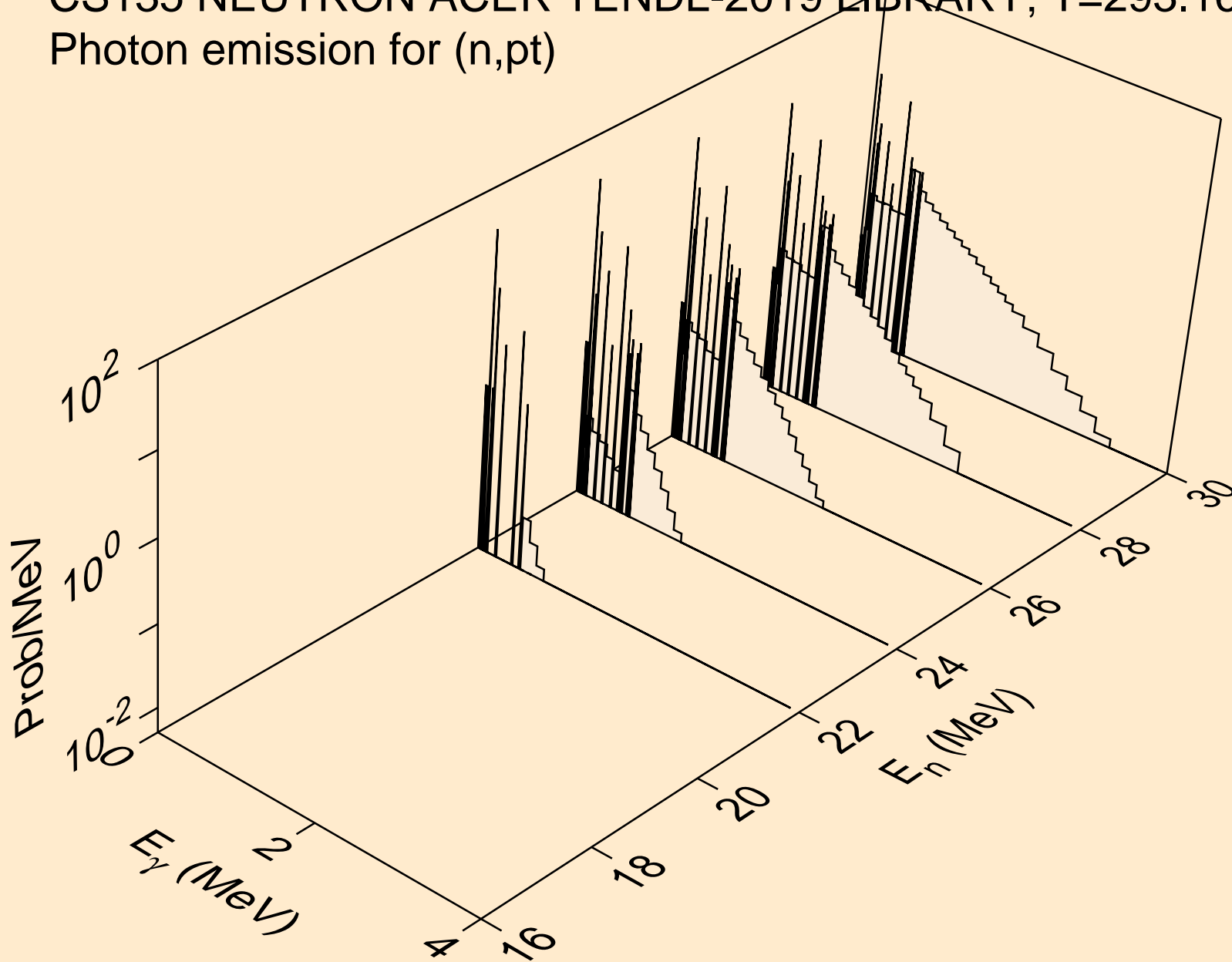
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Photon emission for (n,p $\alpha$ )



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)

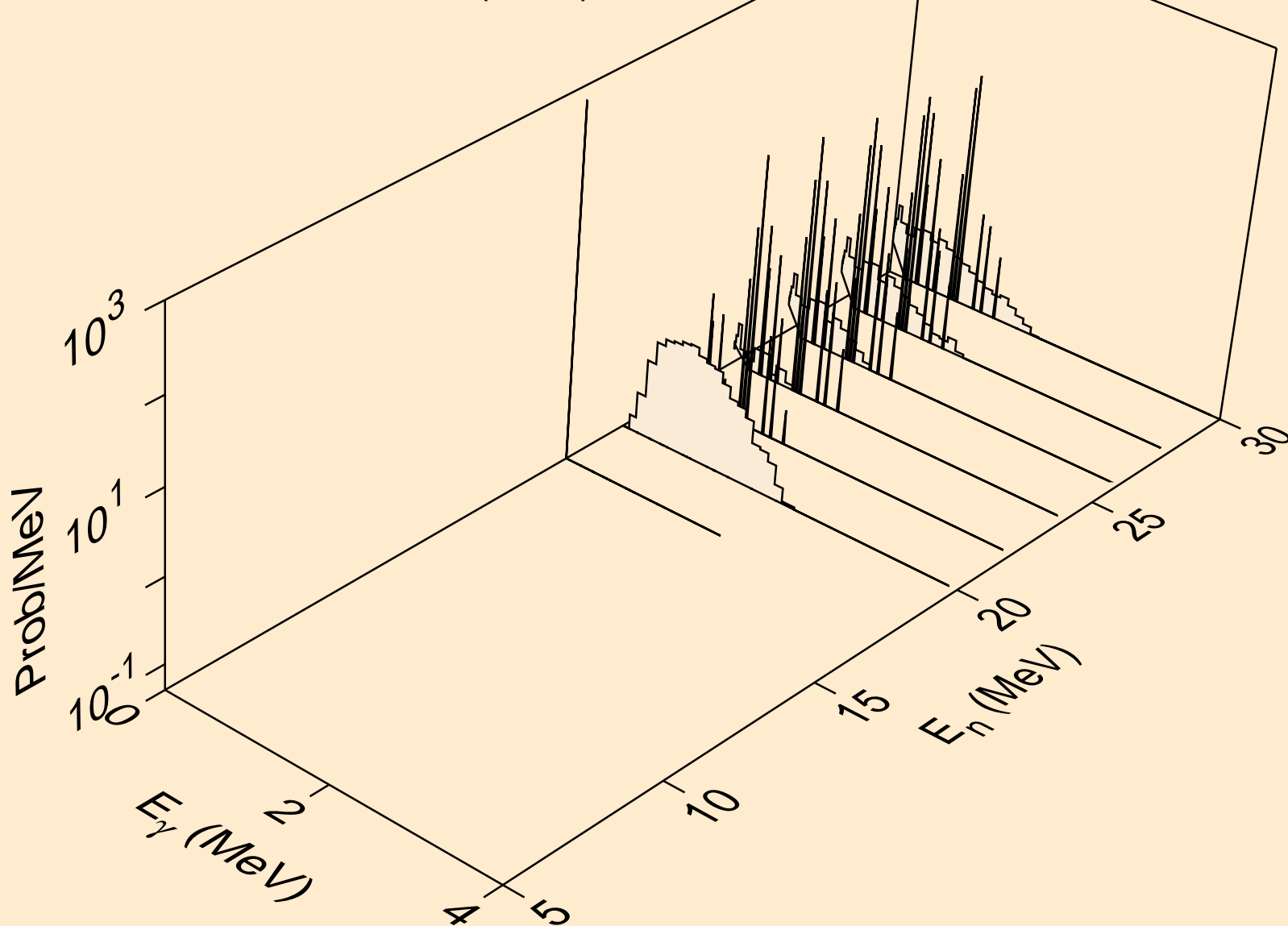


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Photon emission for (n,pt)

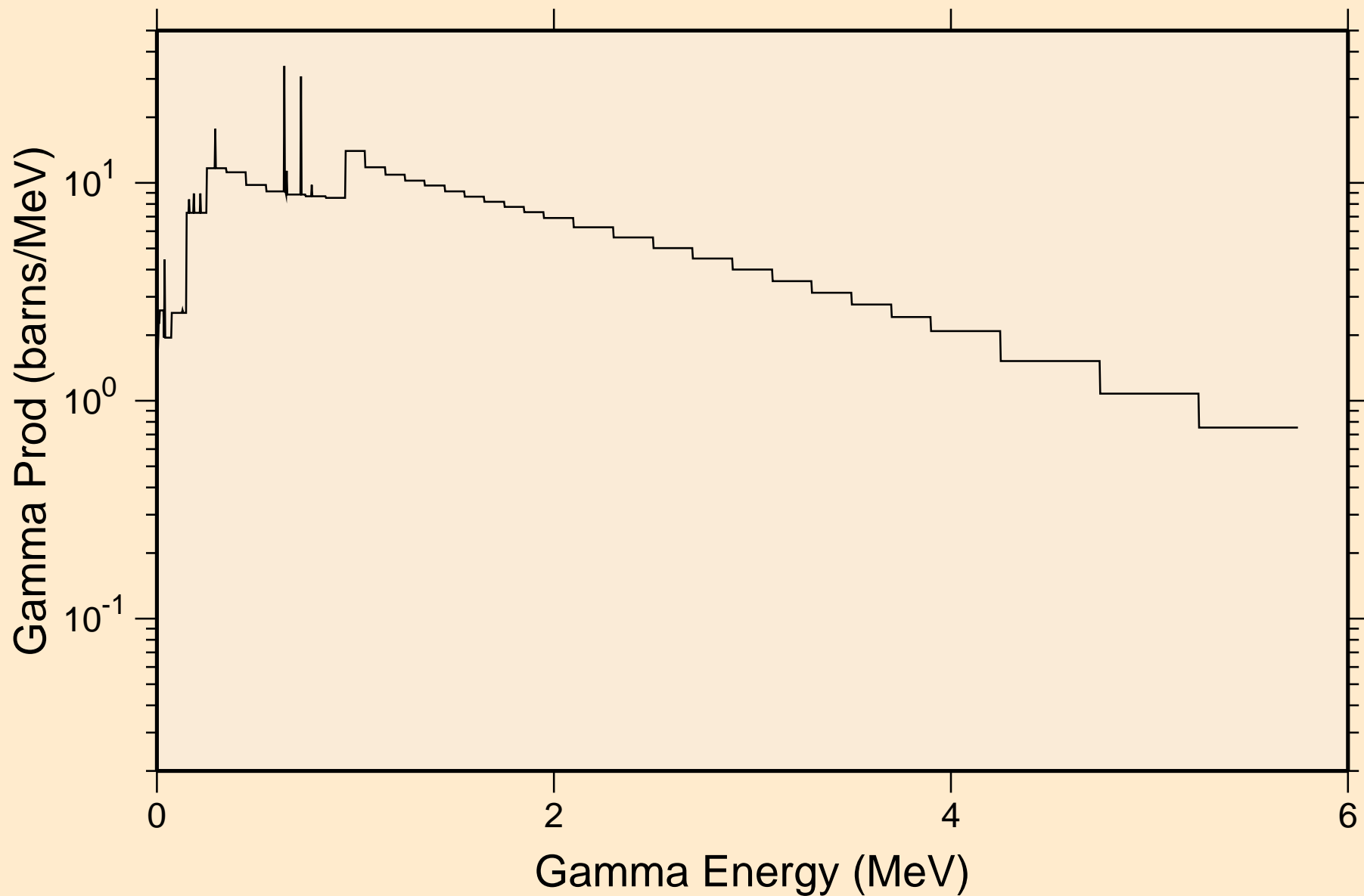




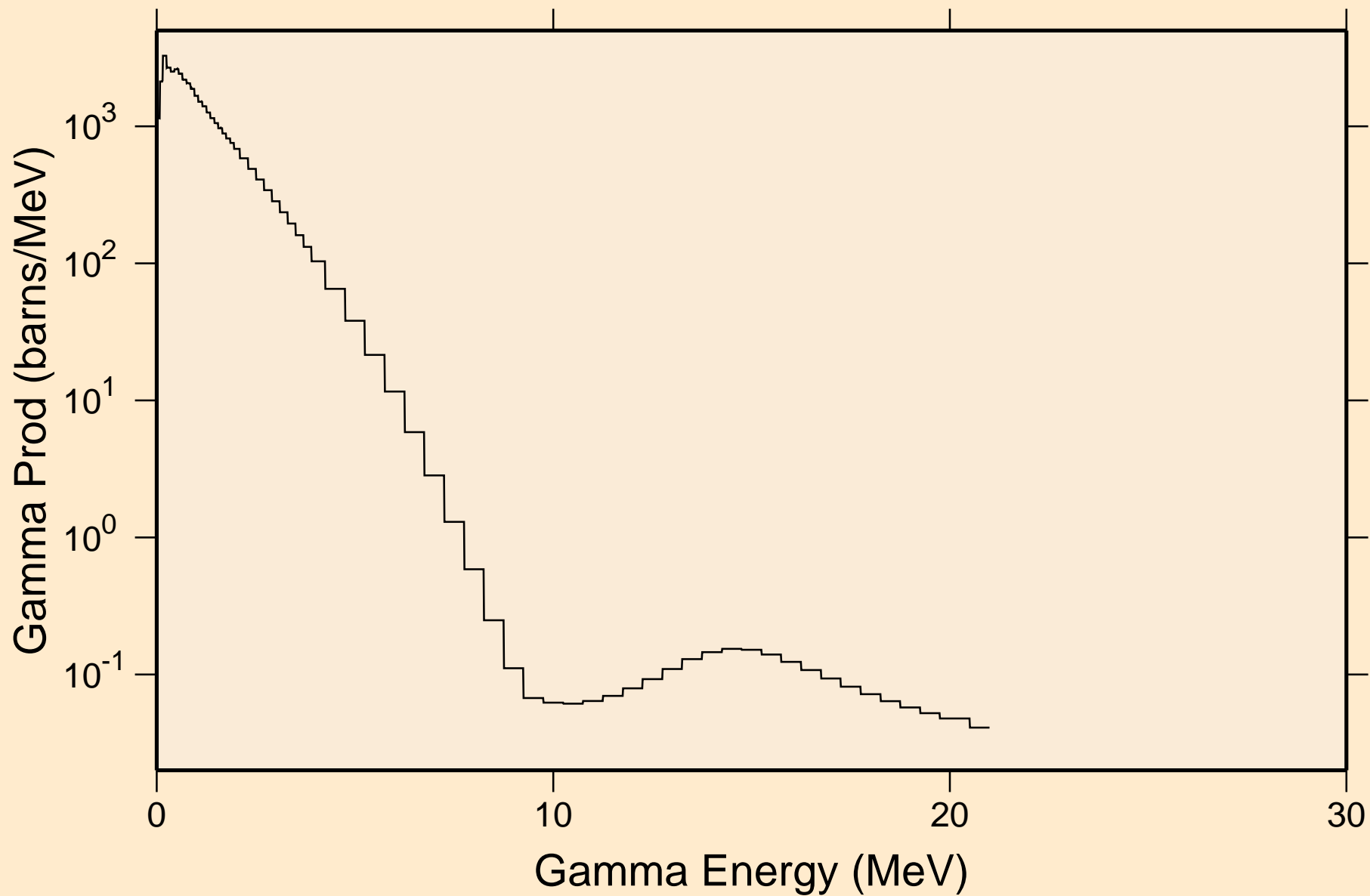
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Photon emission for (n,da)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum

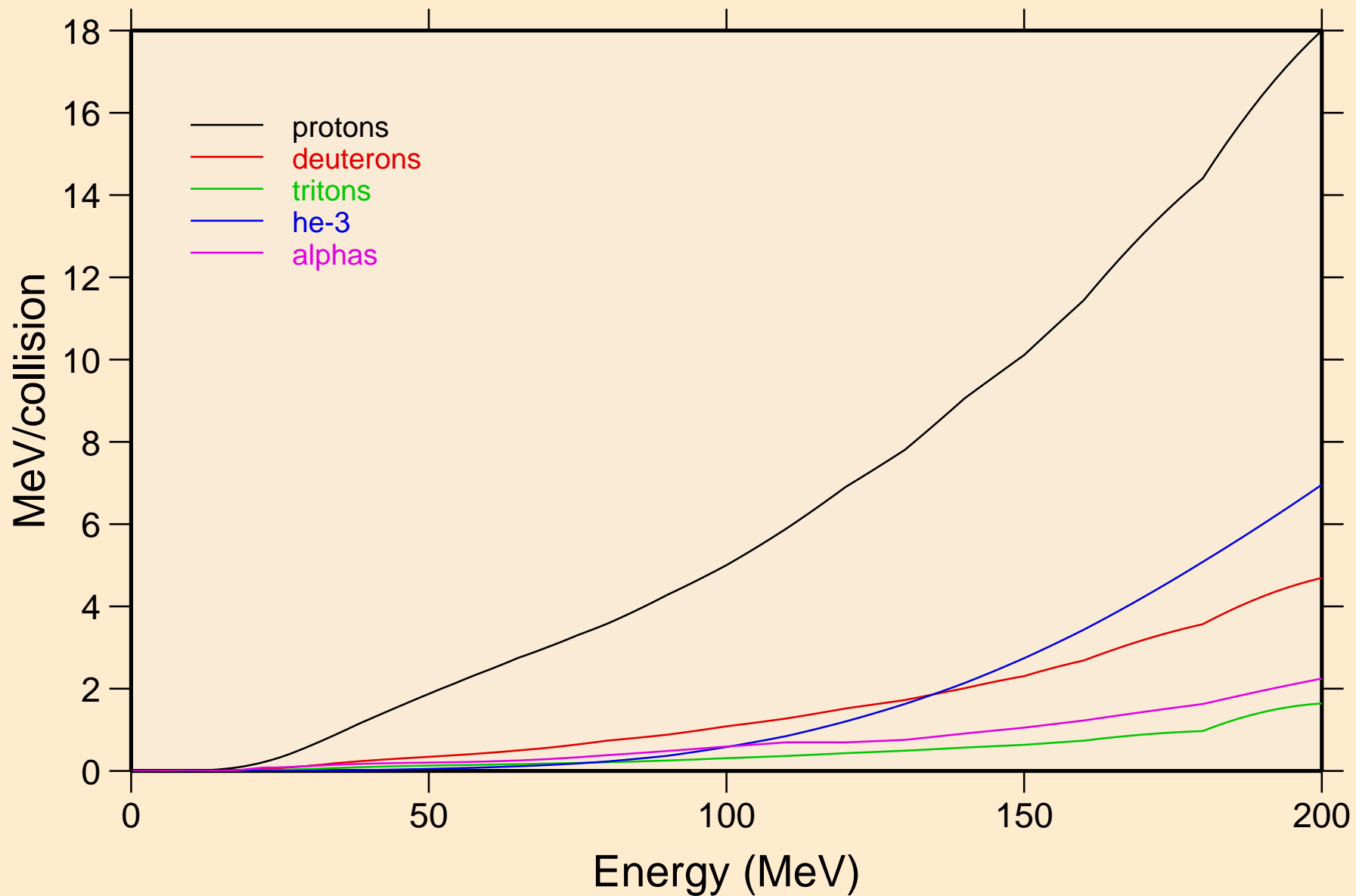


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14 MeV photon spectrum

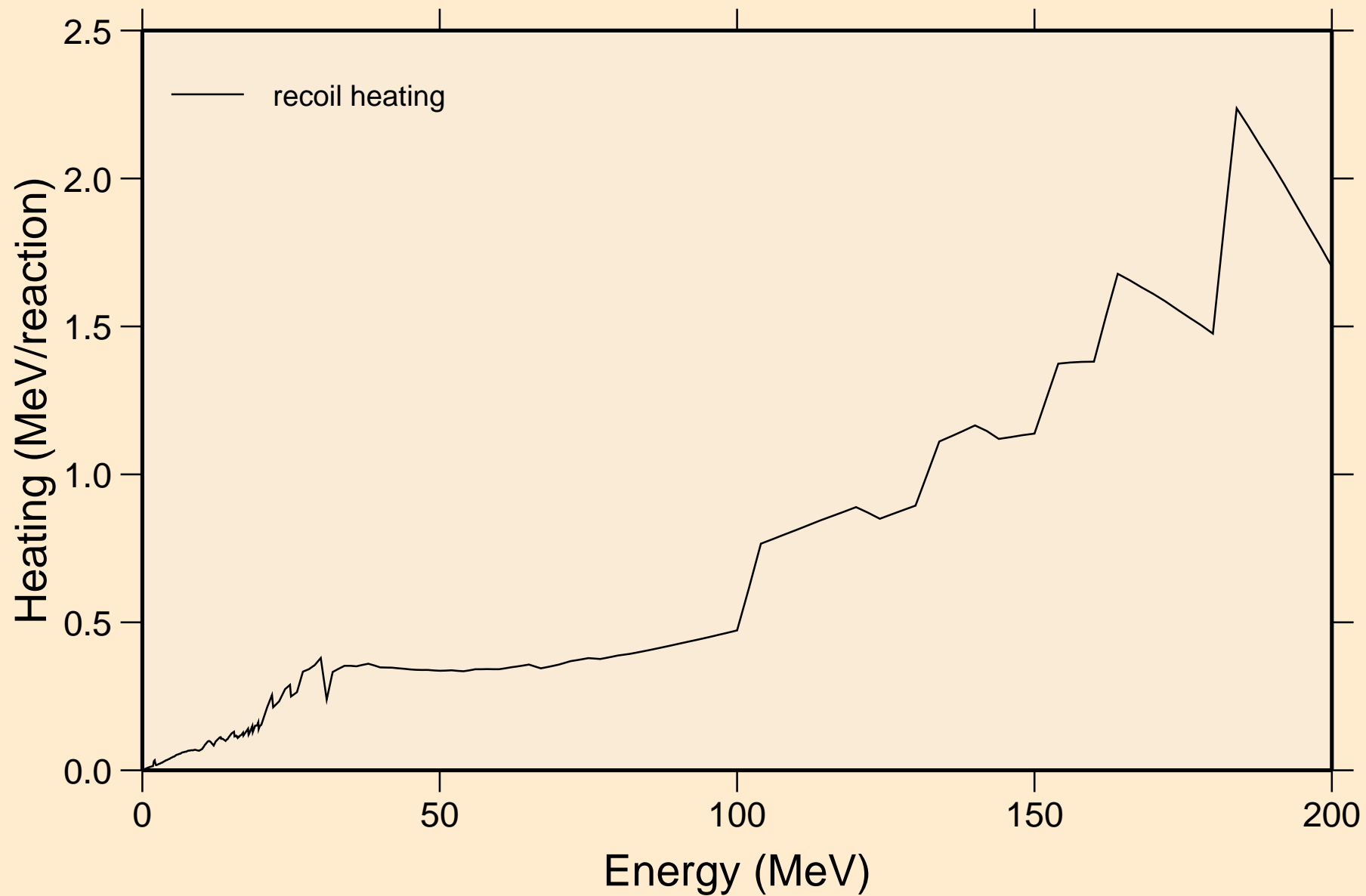


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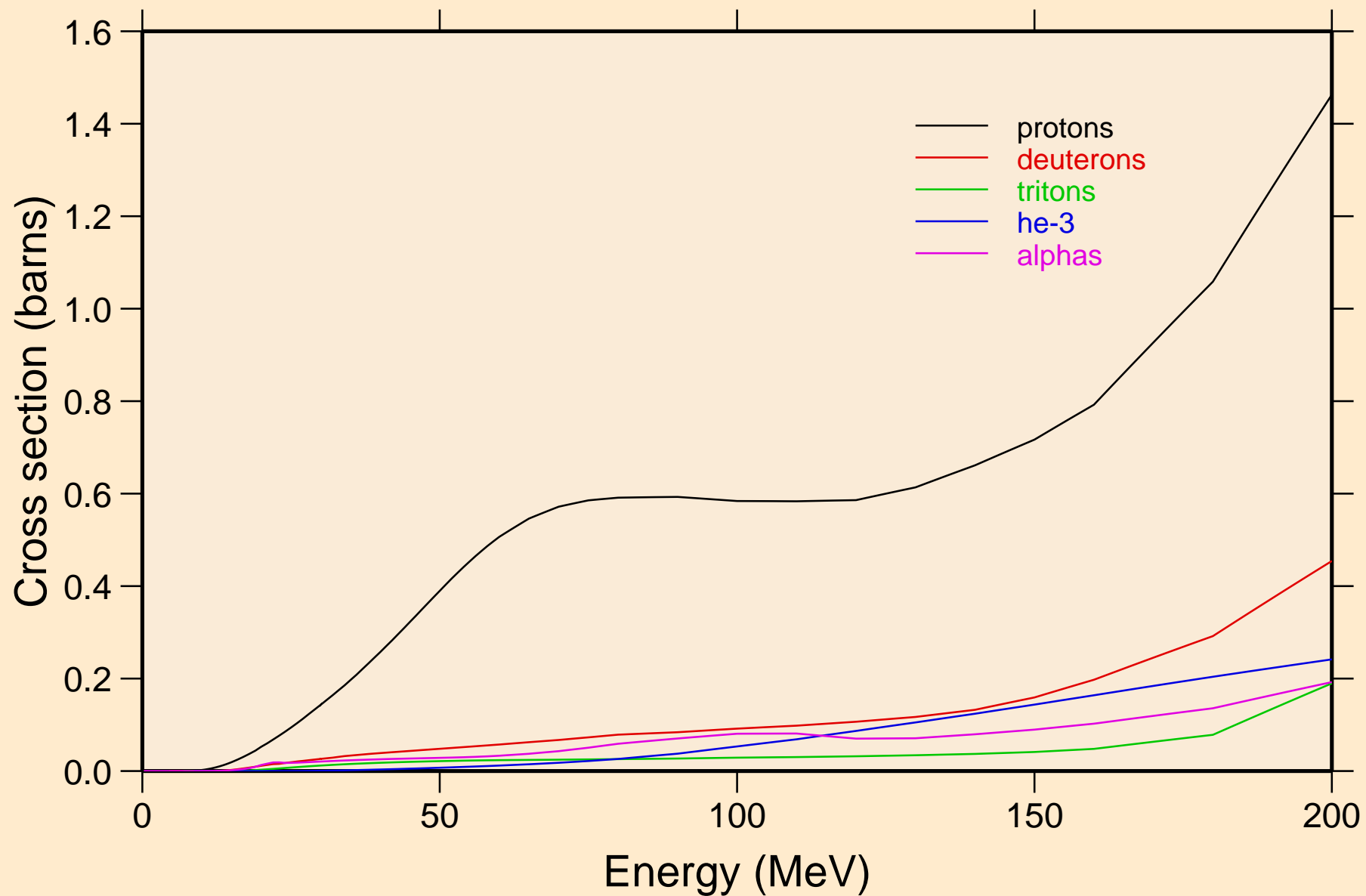
## Particle heating contributions



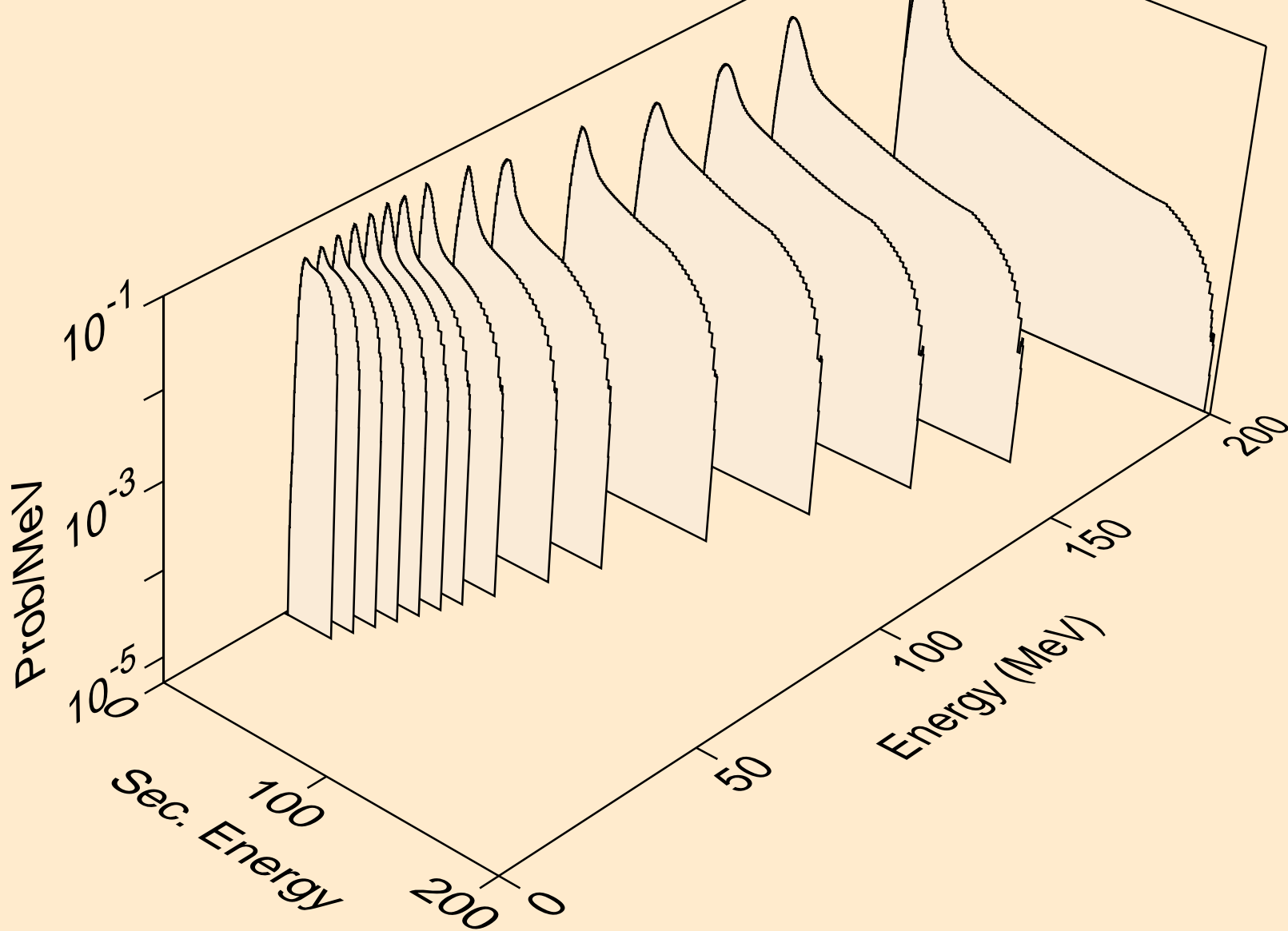
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Recoil Heating



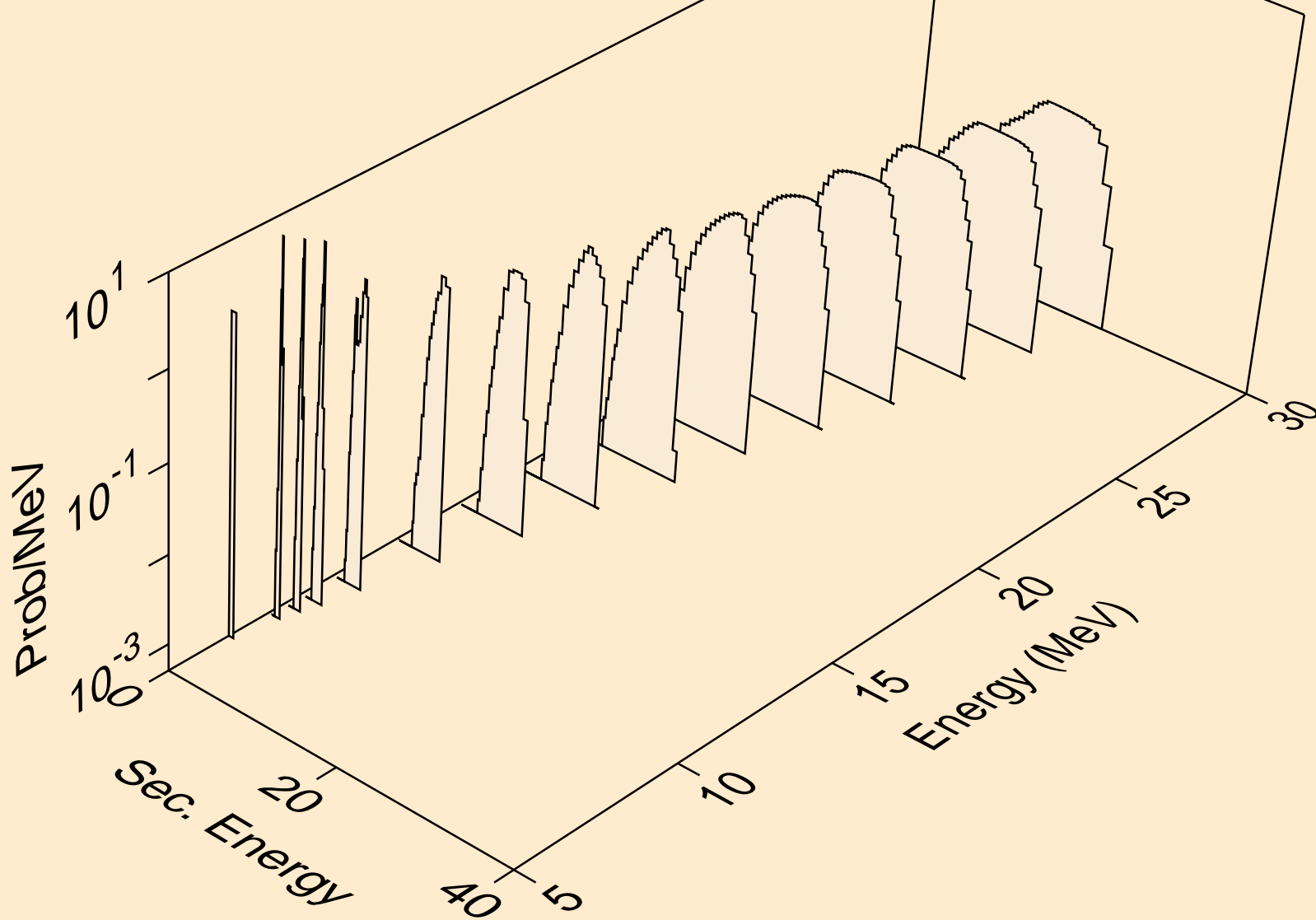
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Particle production cross sections



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)

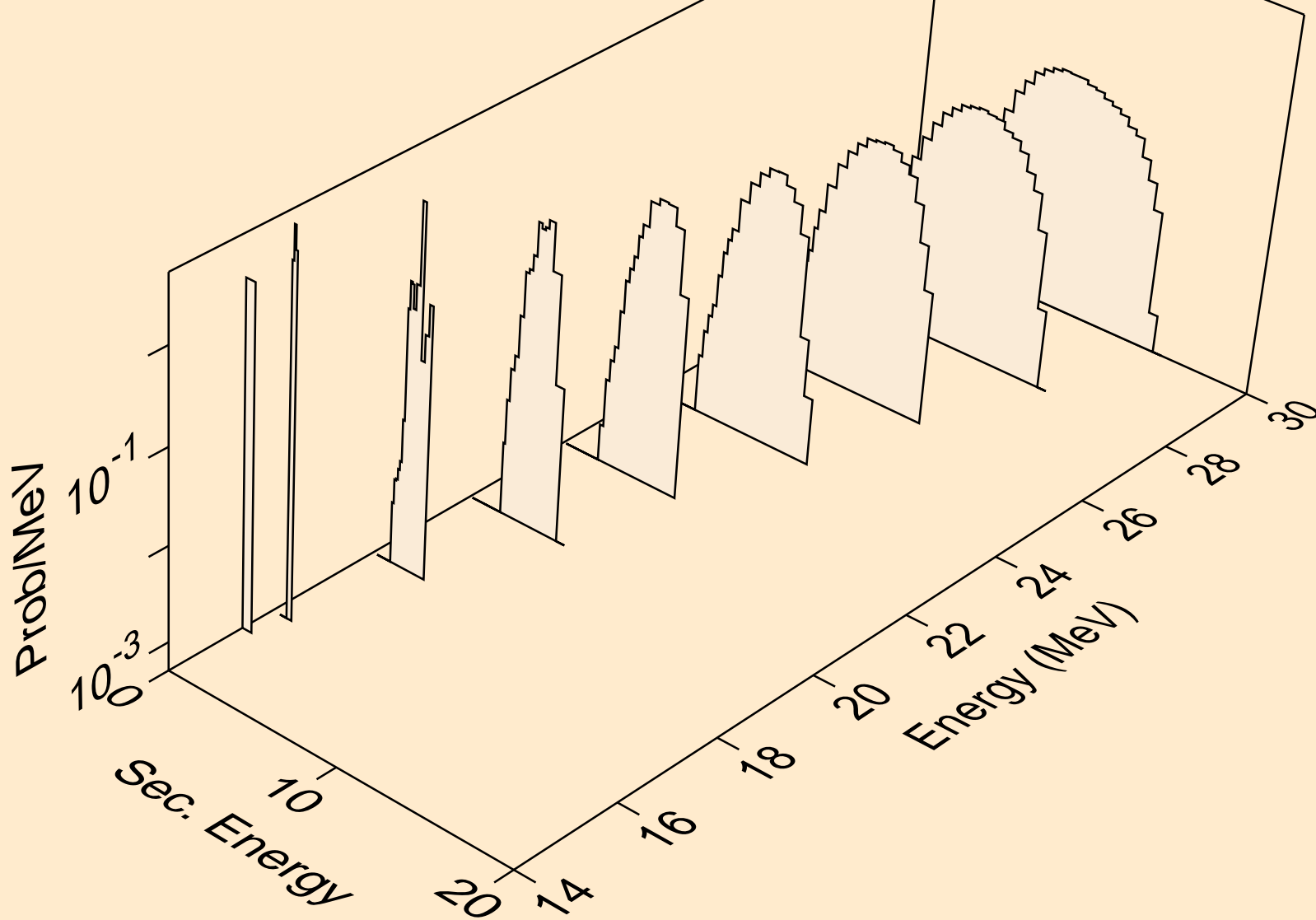


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protons from (n,n\*)p

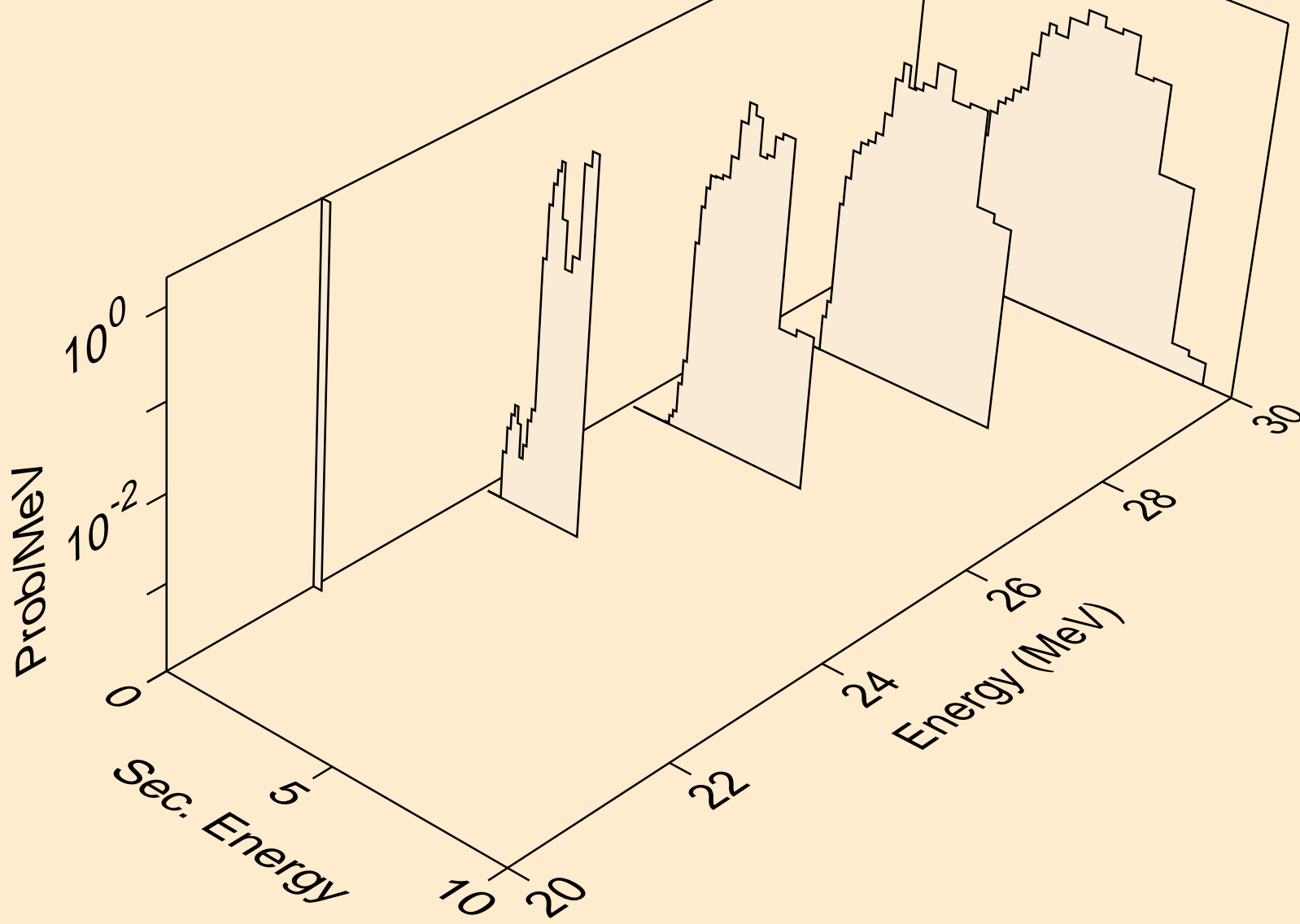




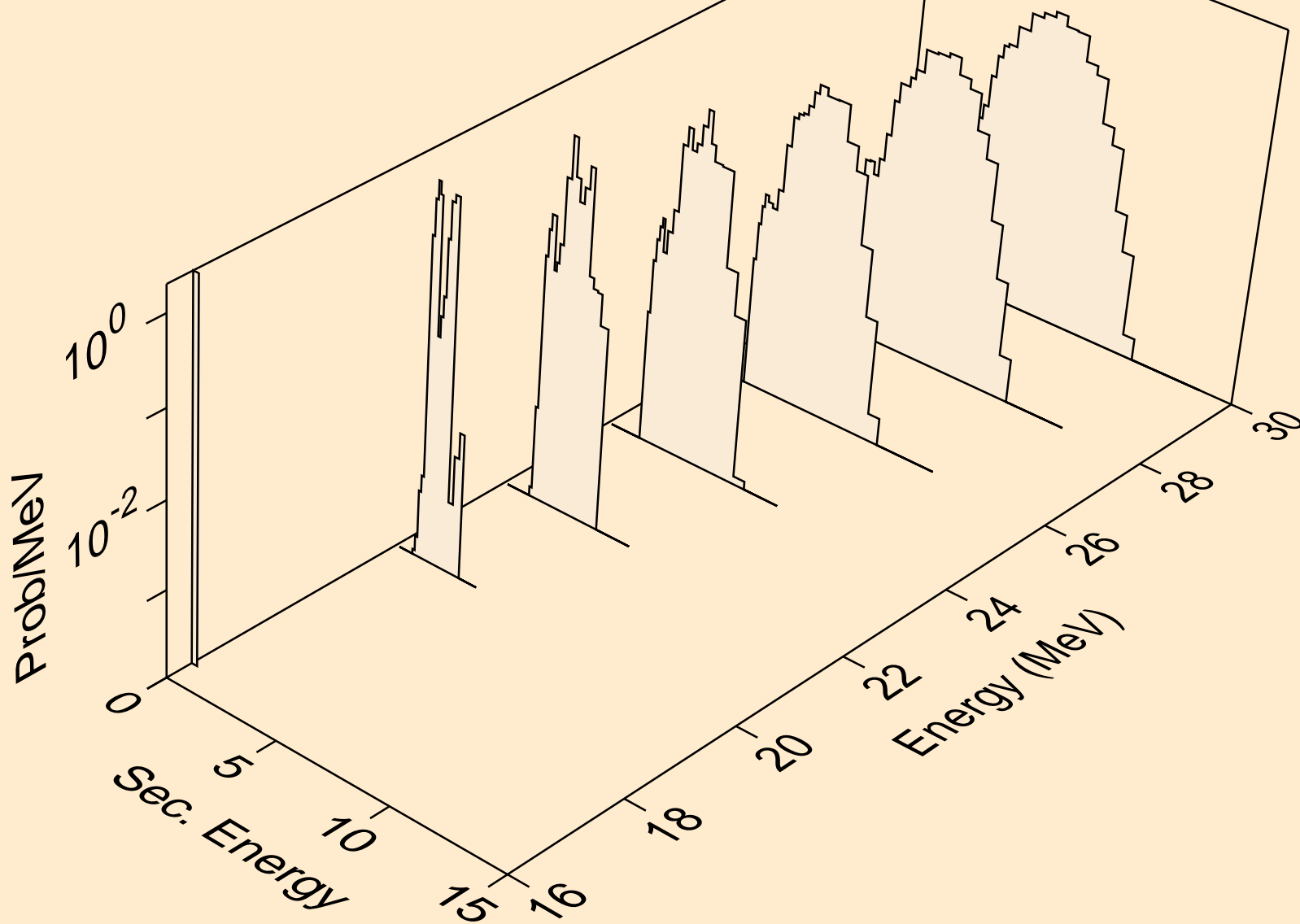
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protons from (n,2np)



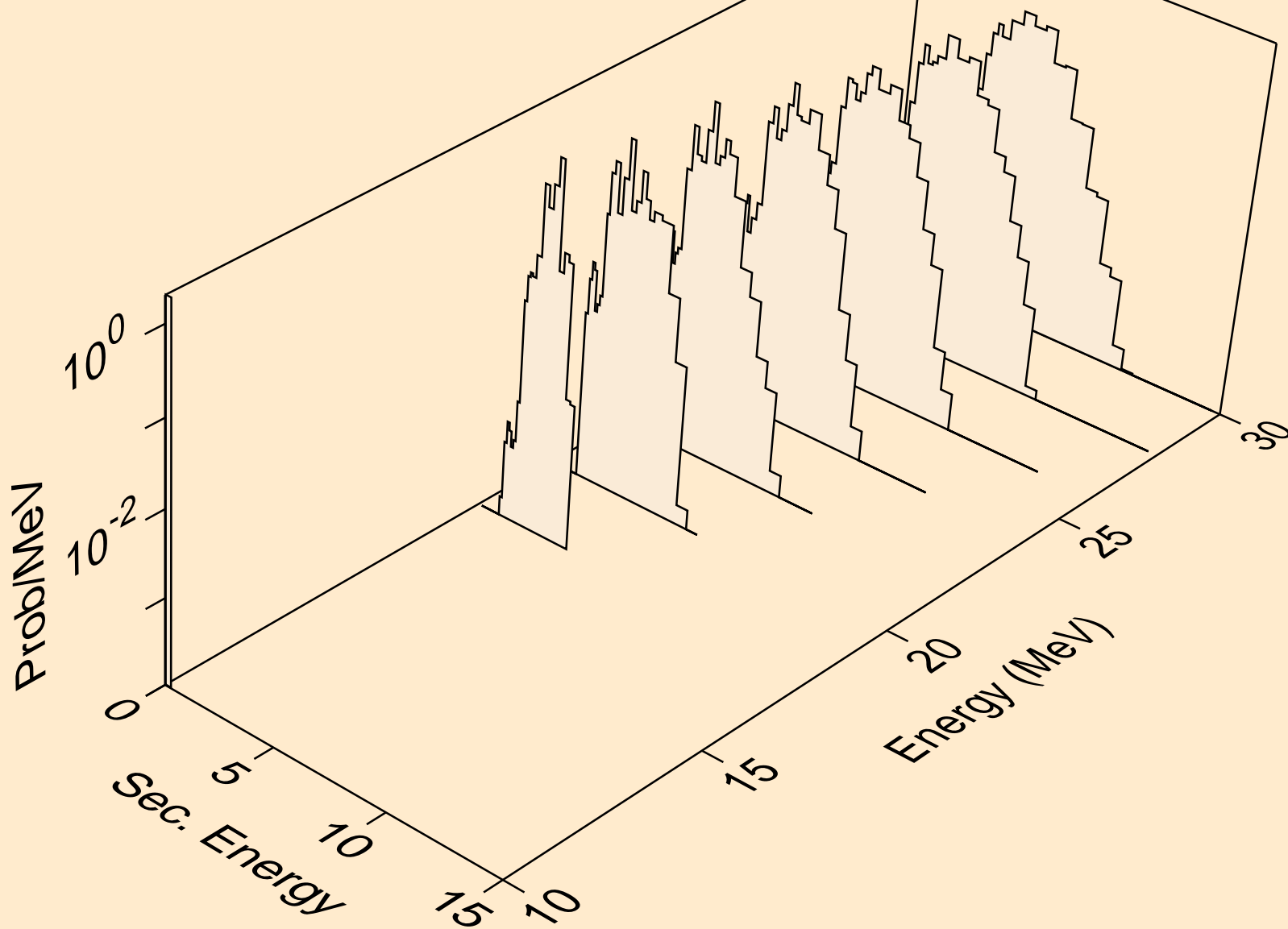
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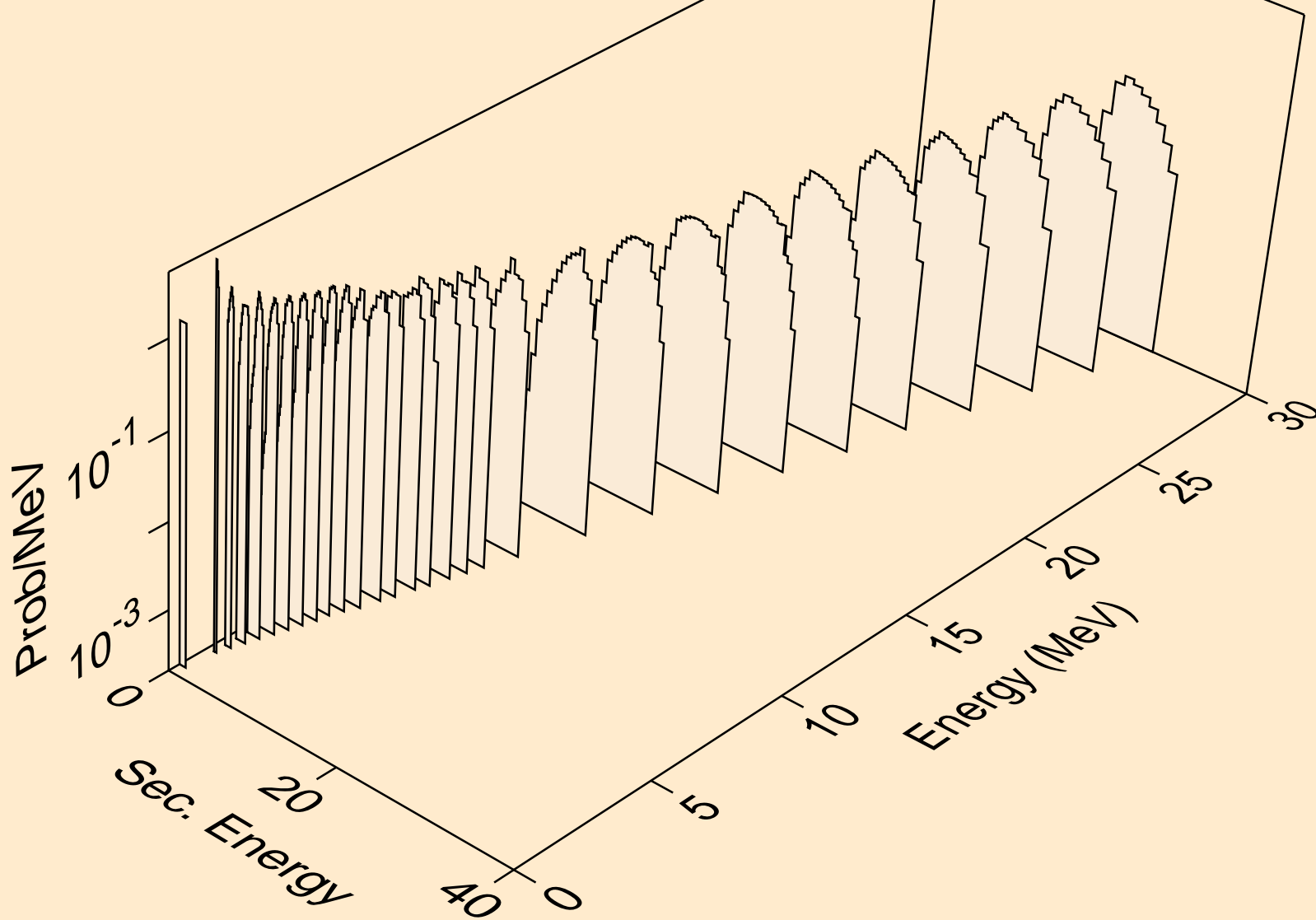
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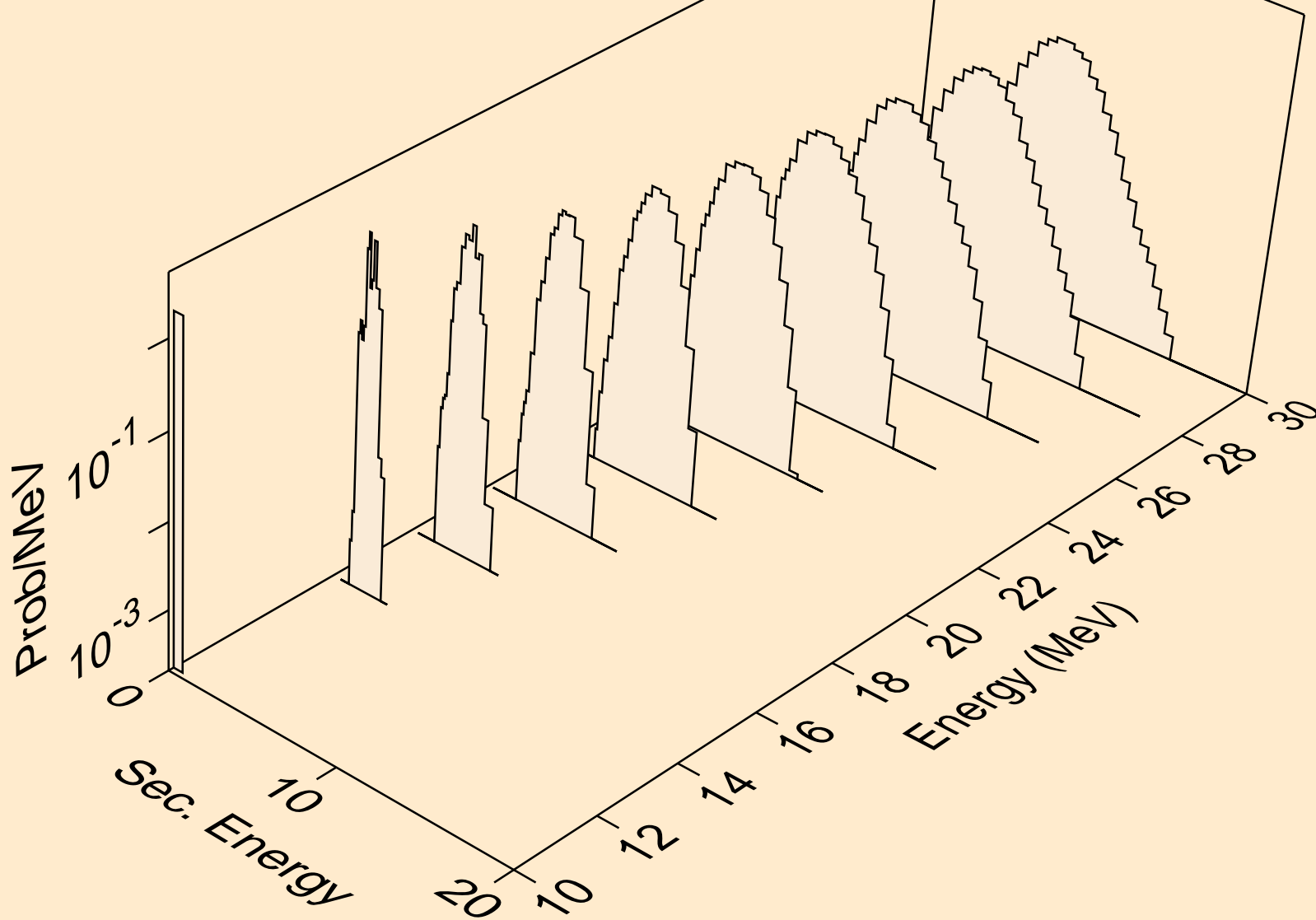
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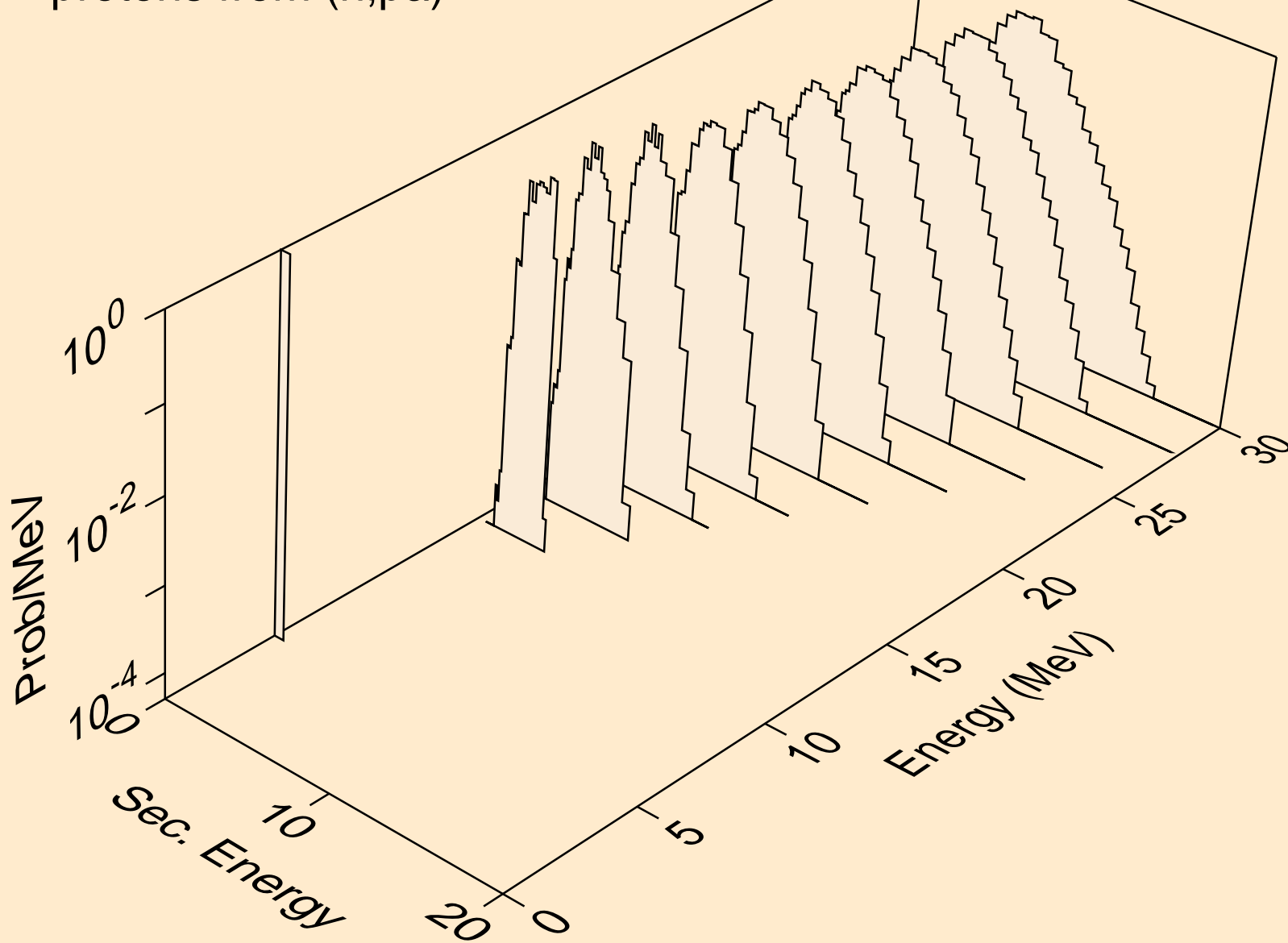
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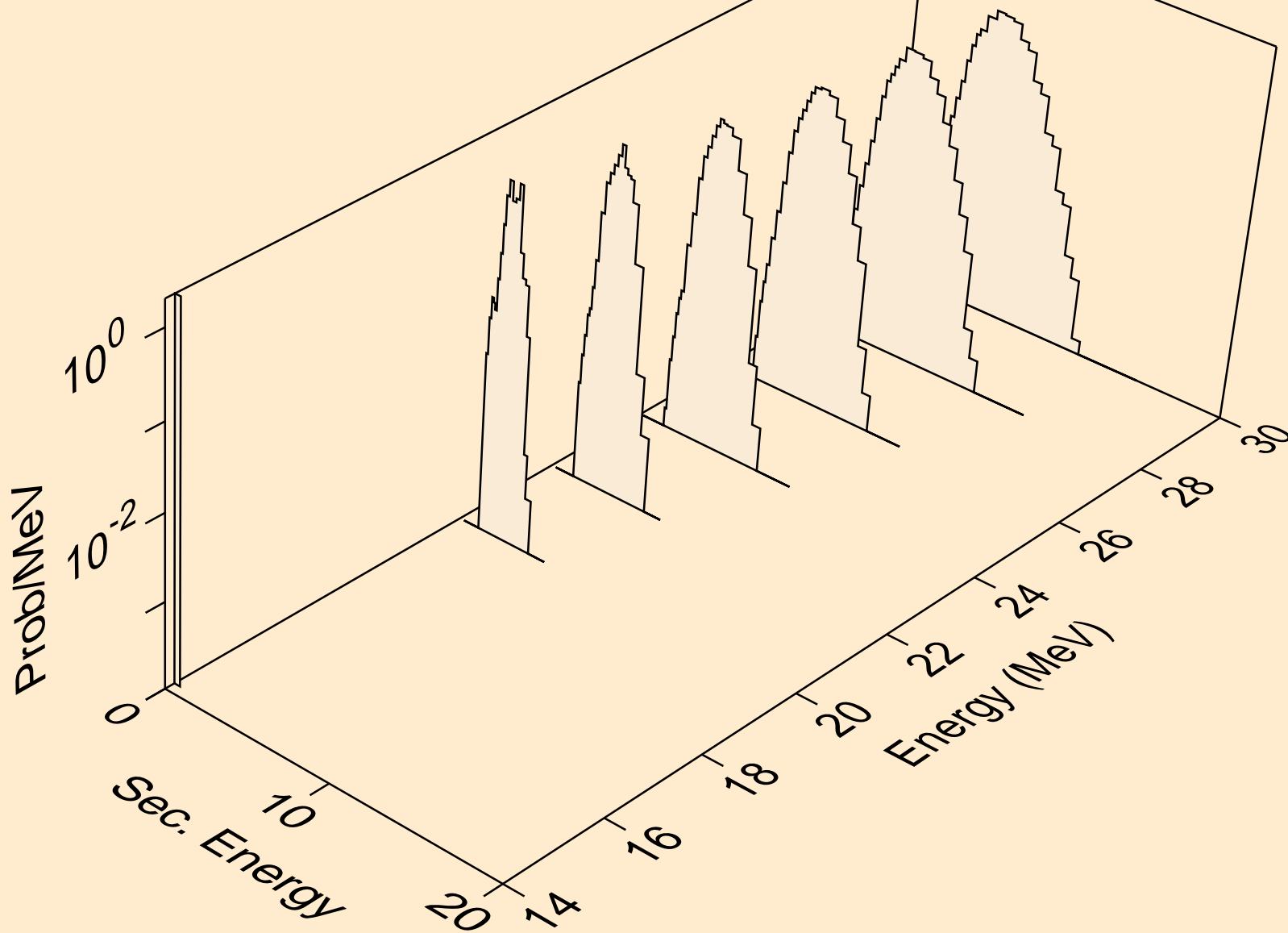
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protons from (n,2p)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

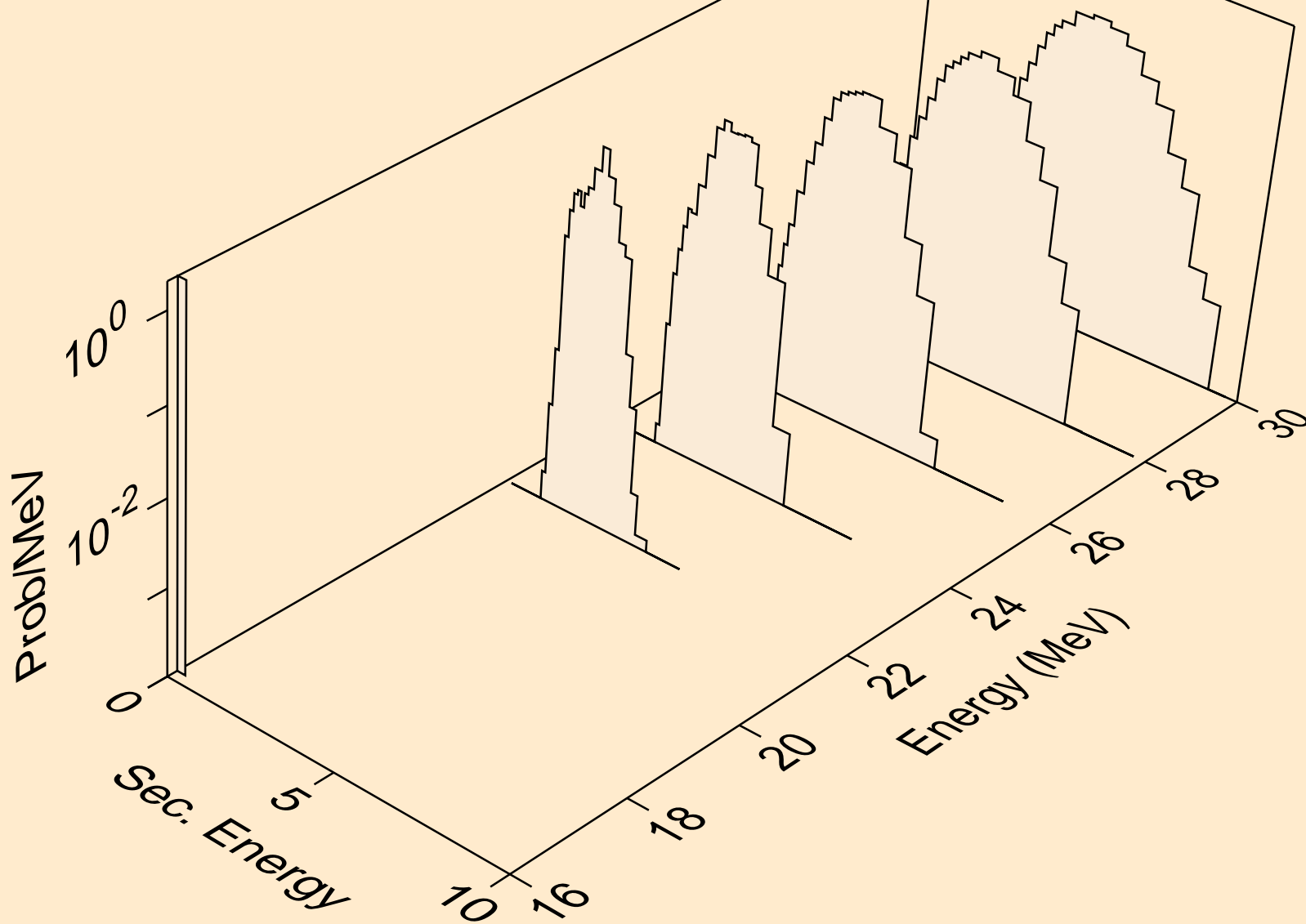


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protons from (n,pd)

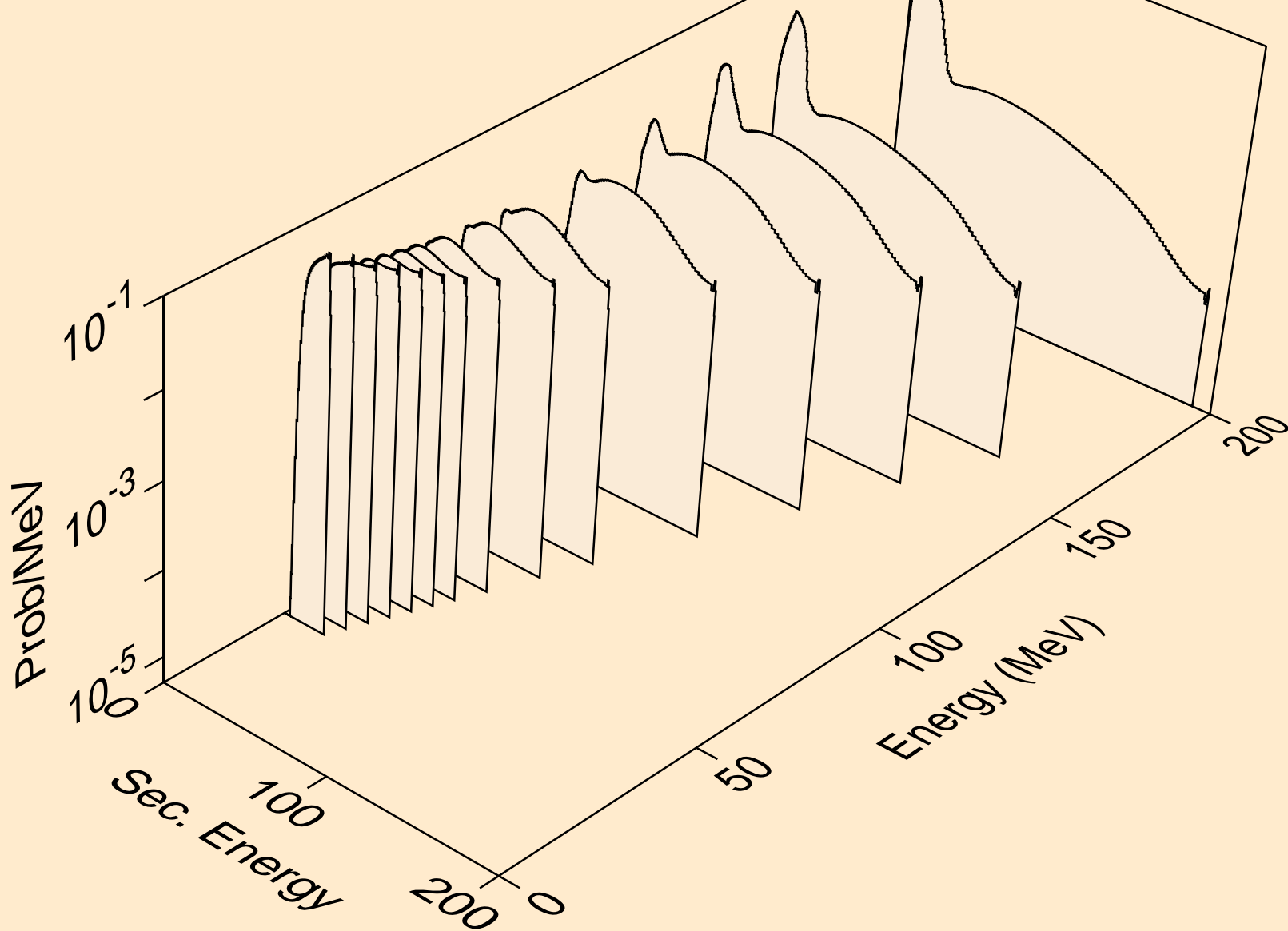




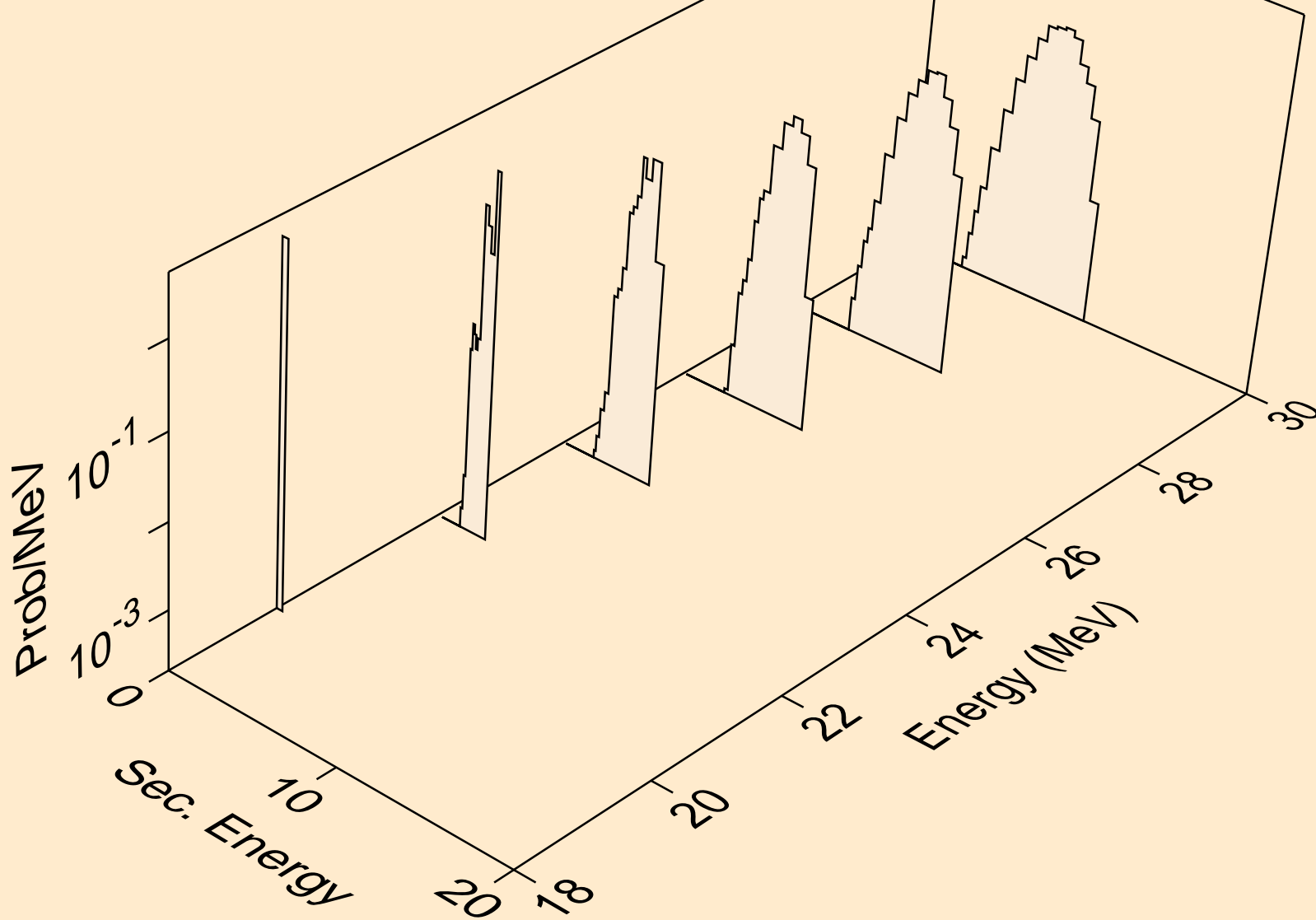
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protons from (n,pt)



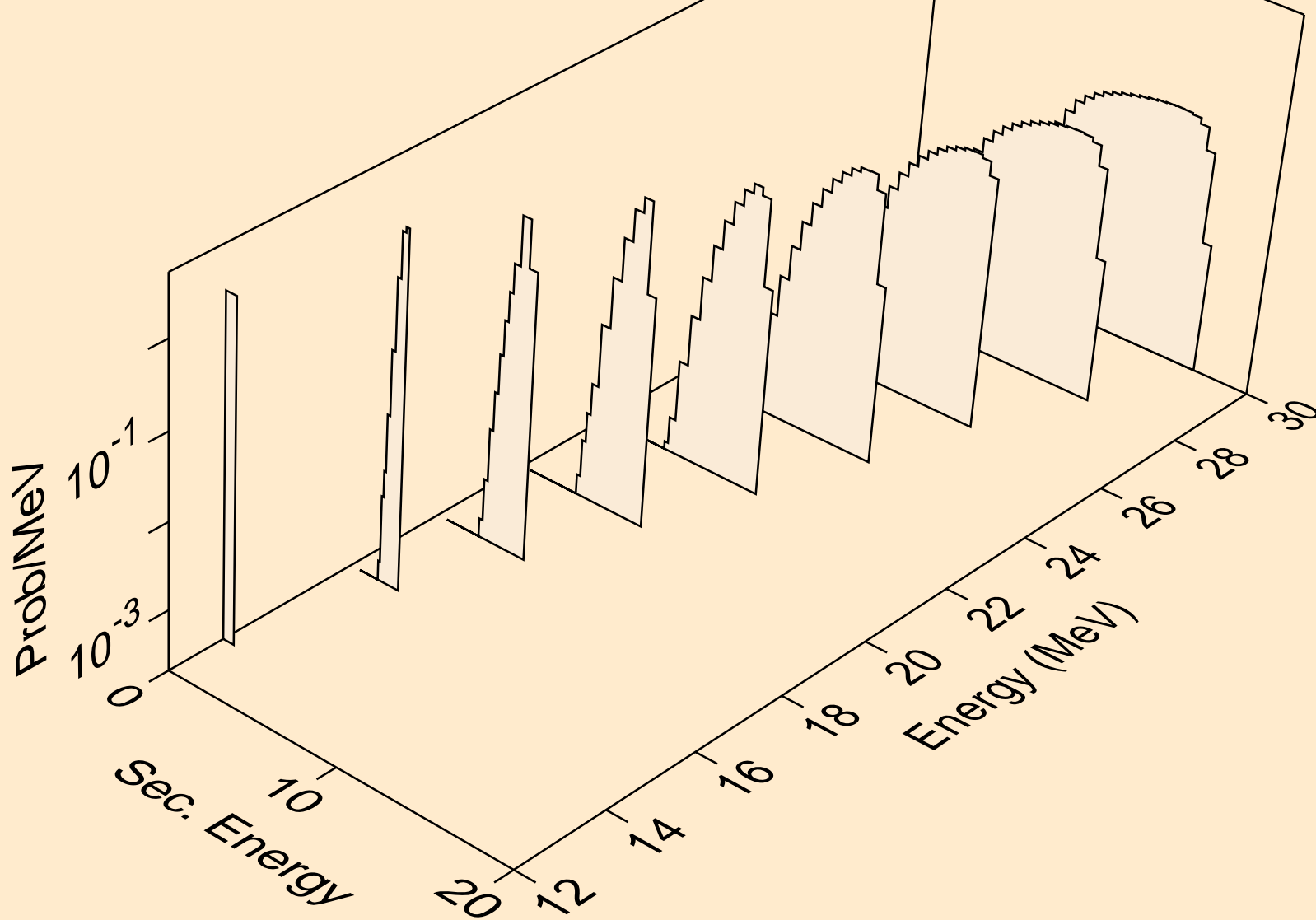
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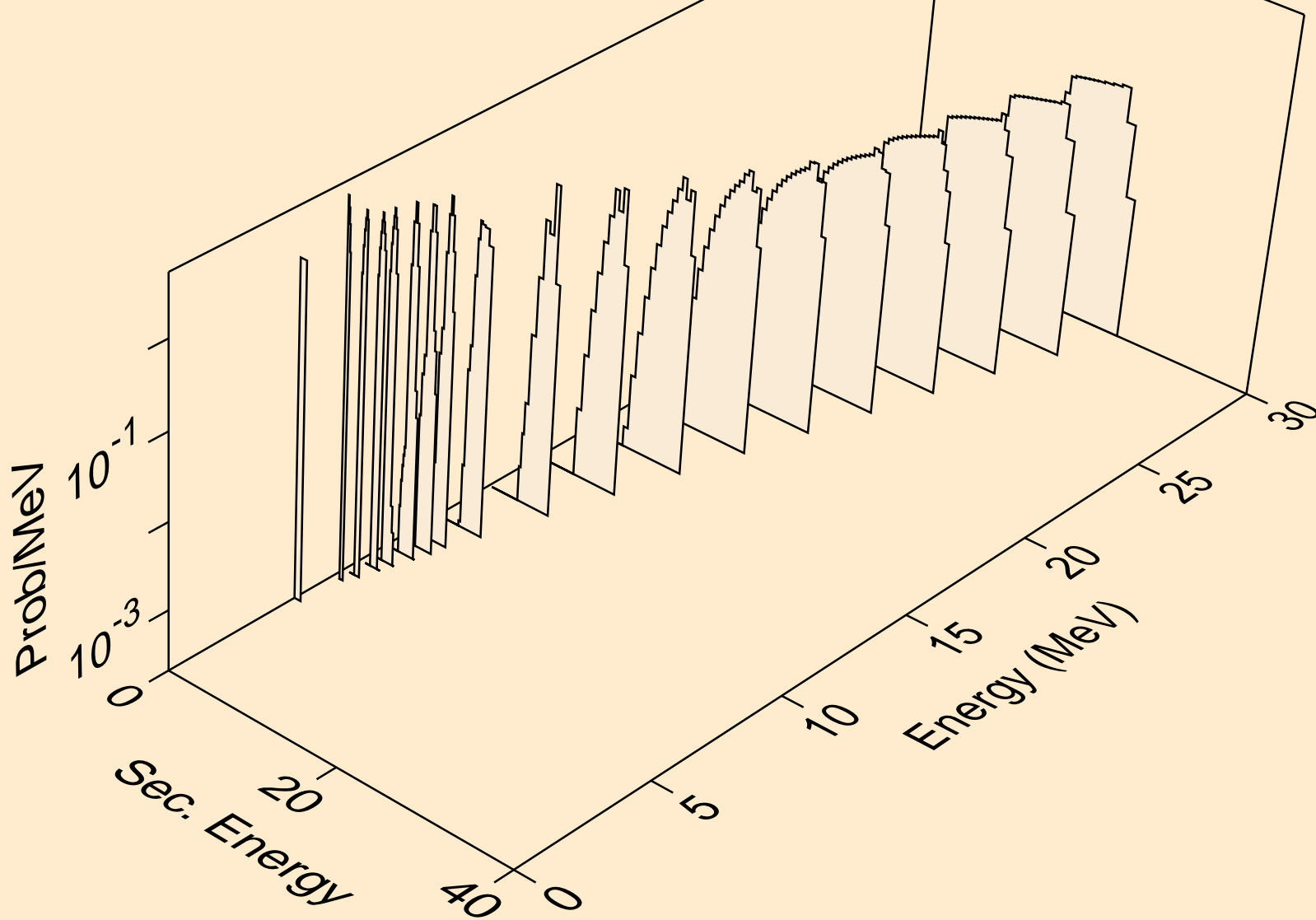
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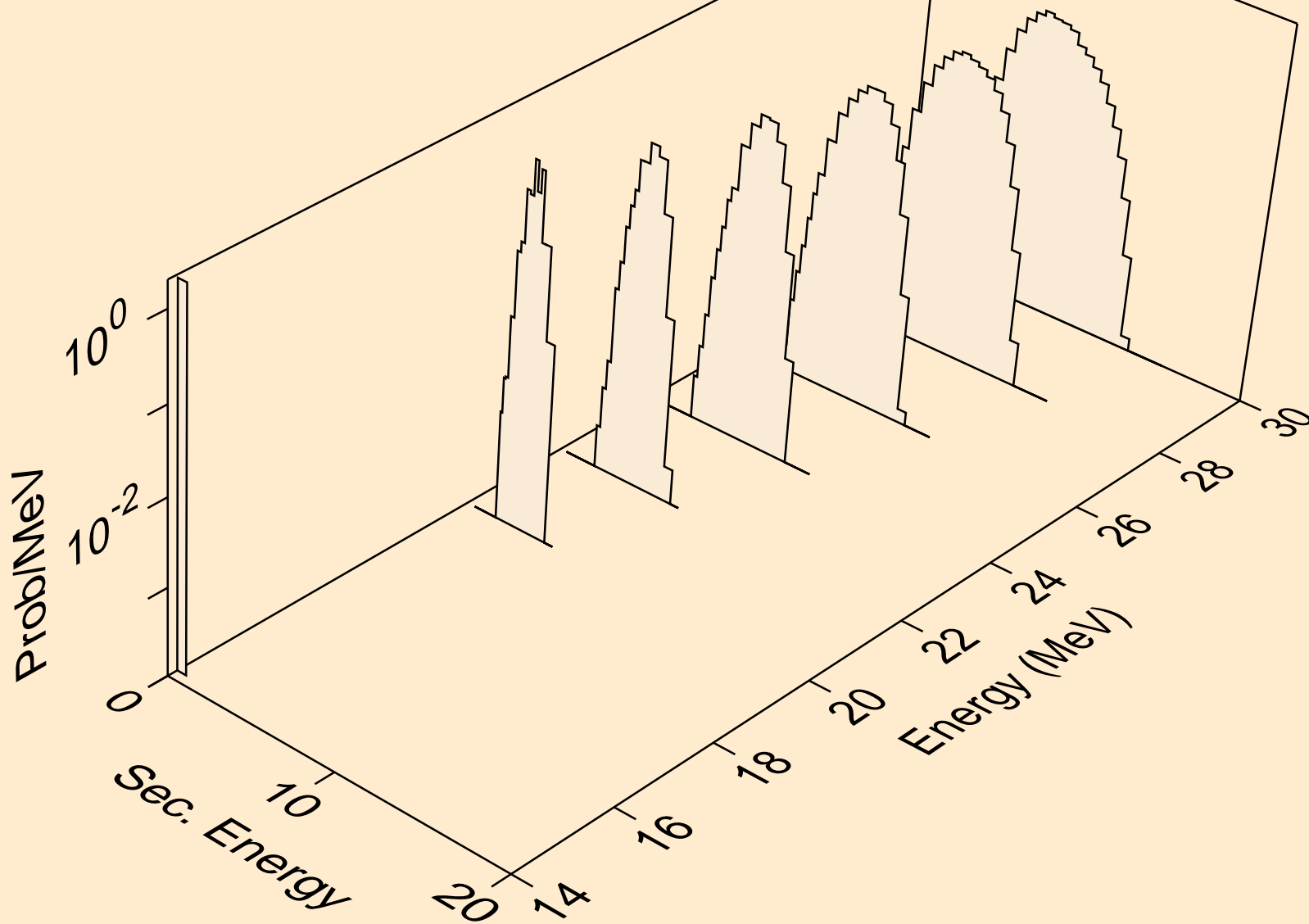
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deuterons from (n,n\*)d



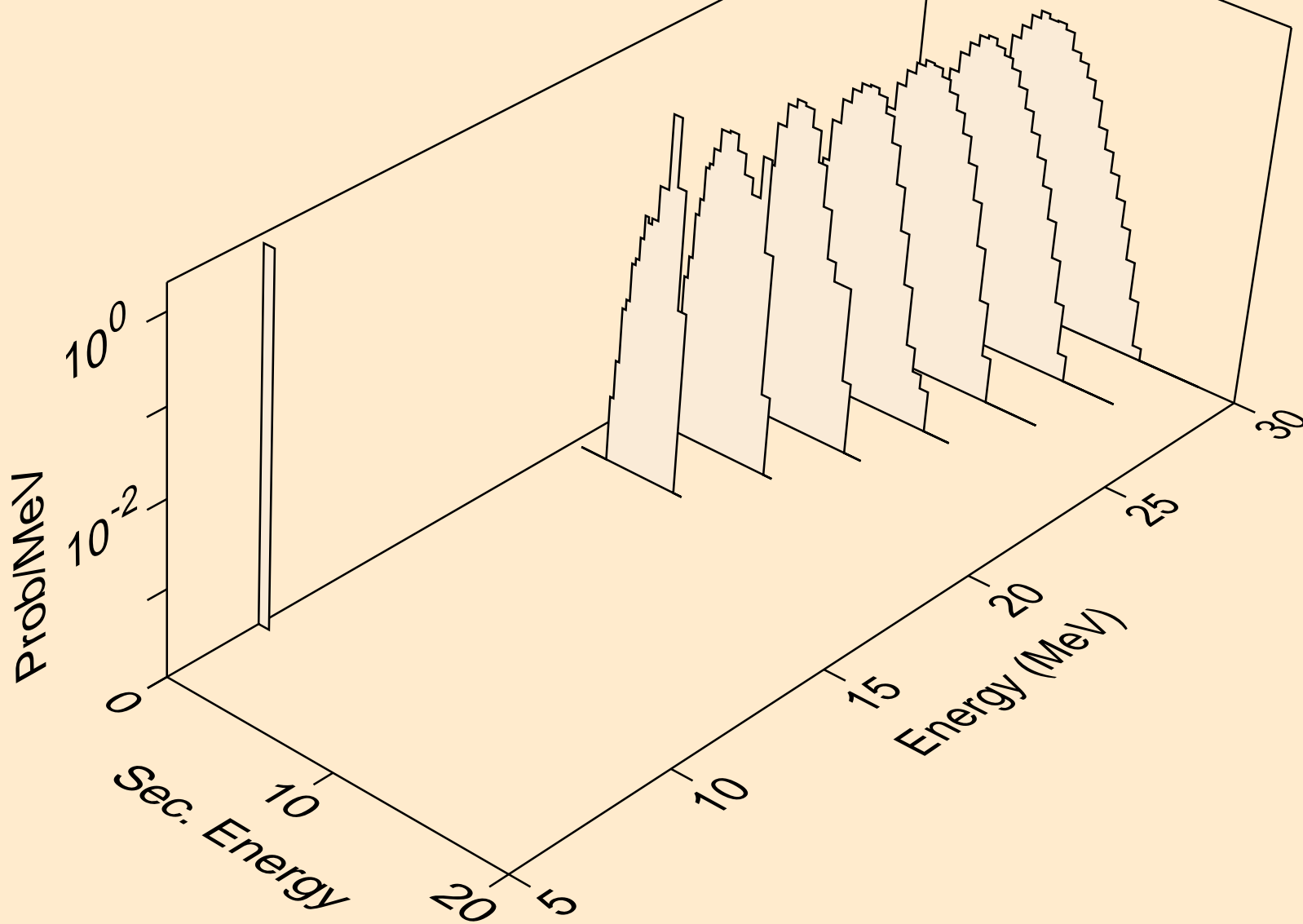
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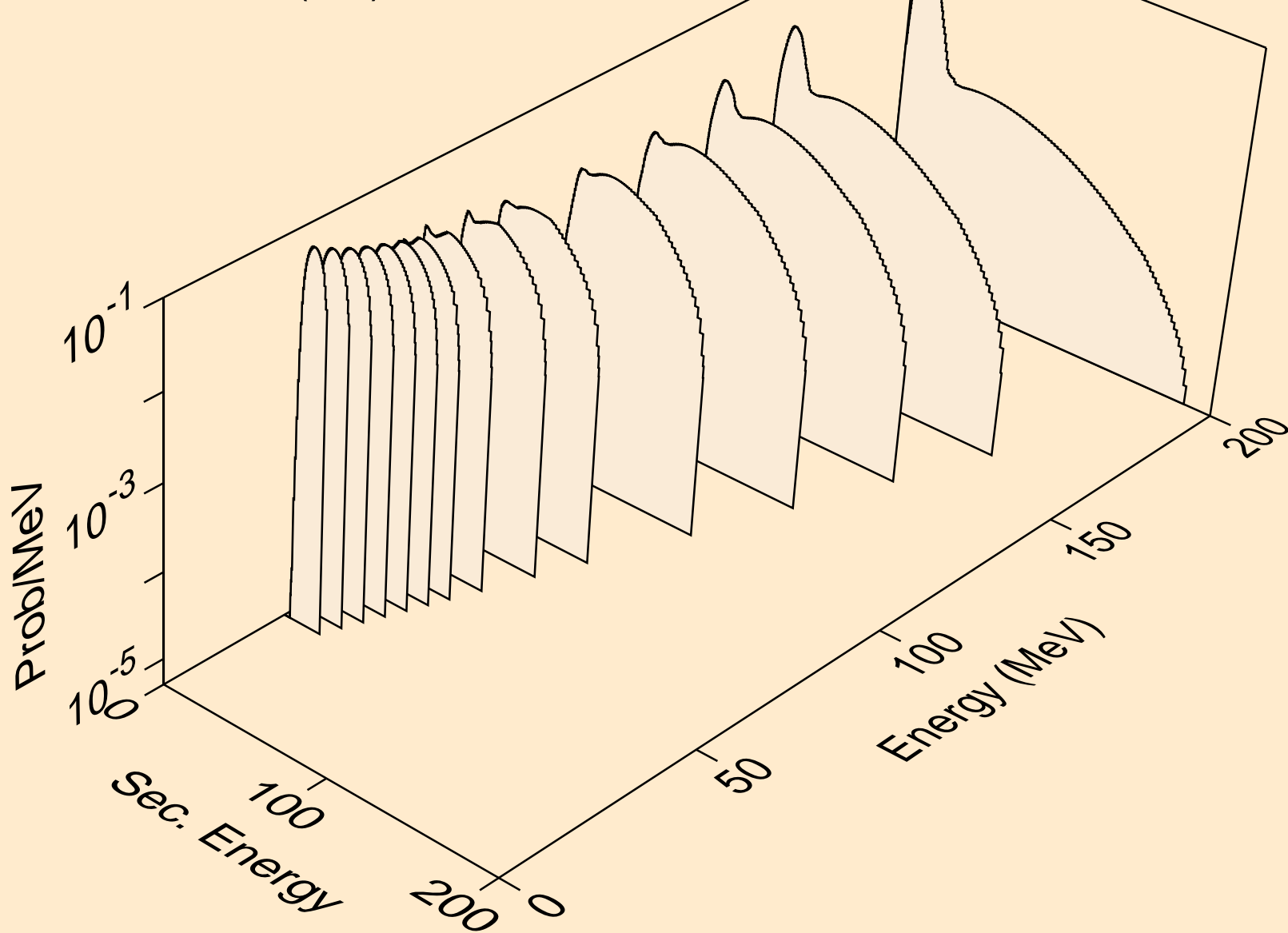
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deuterons from (n,da)

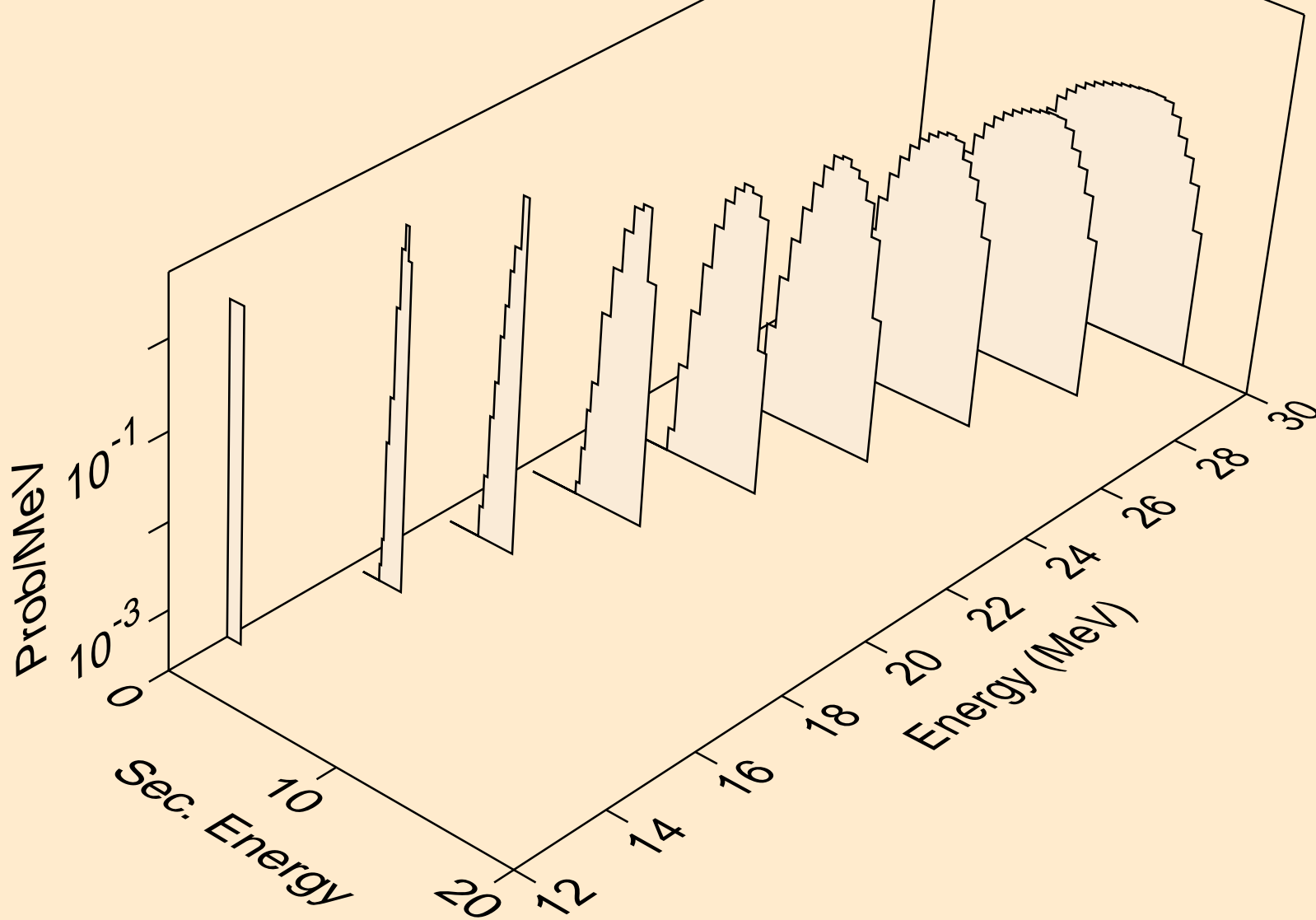


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tritons from (n,x)

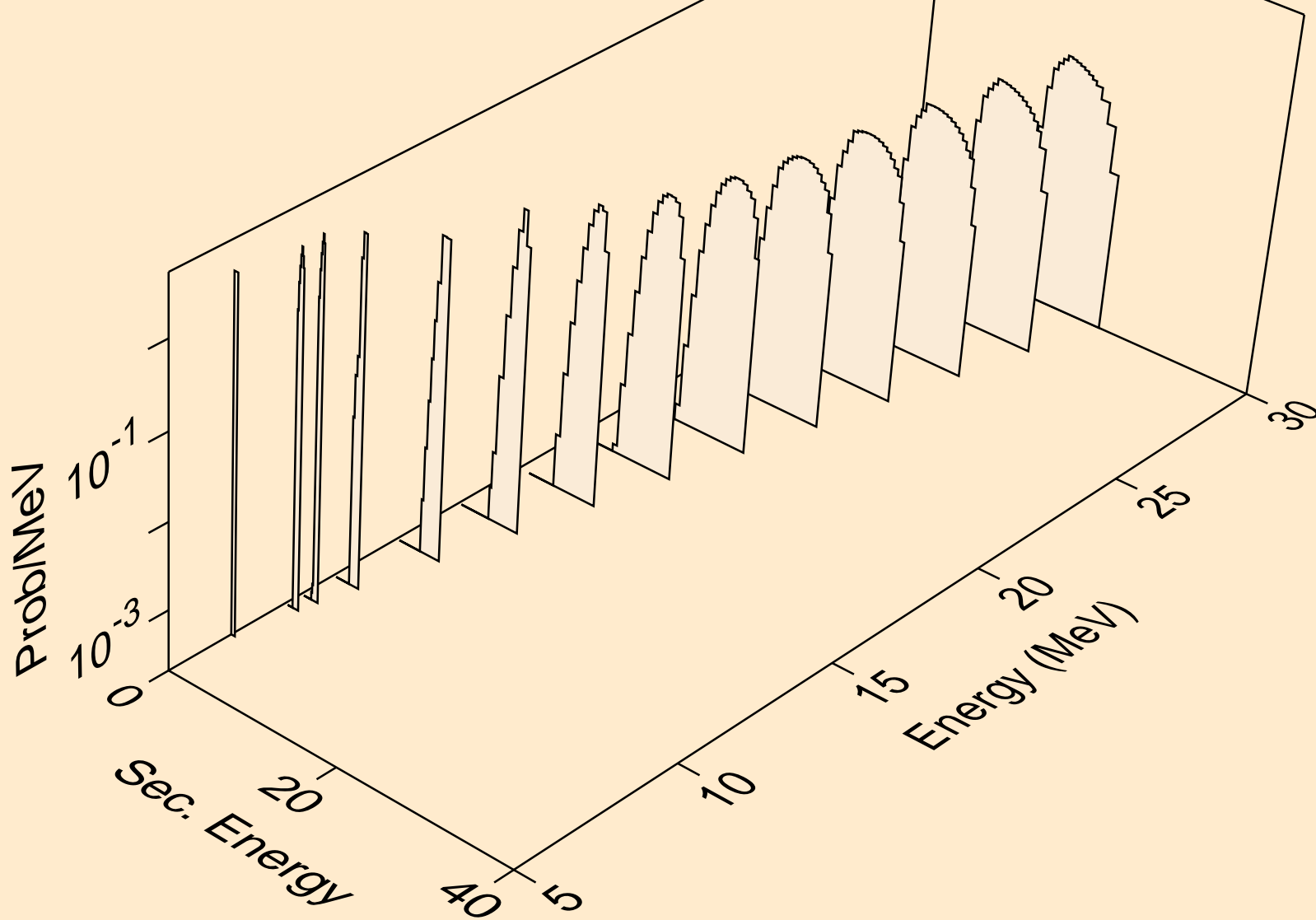




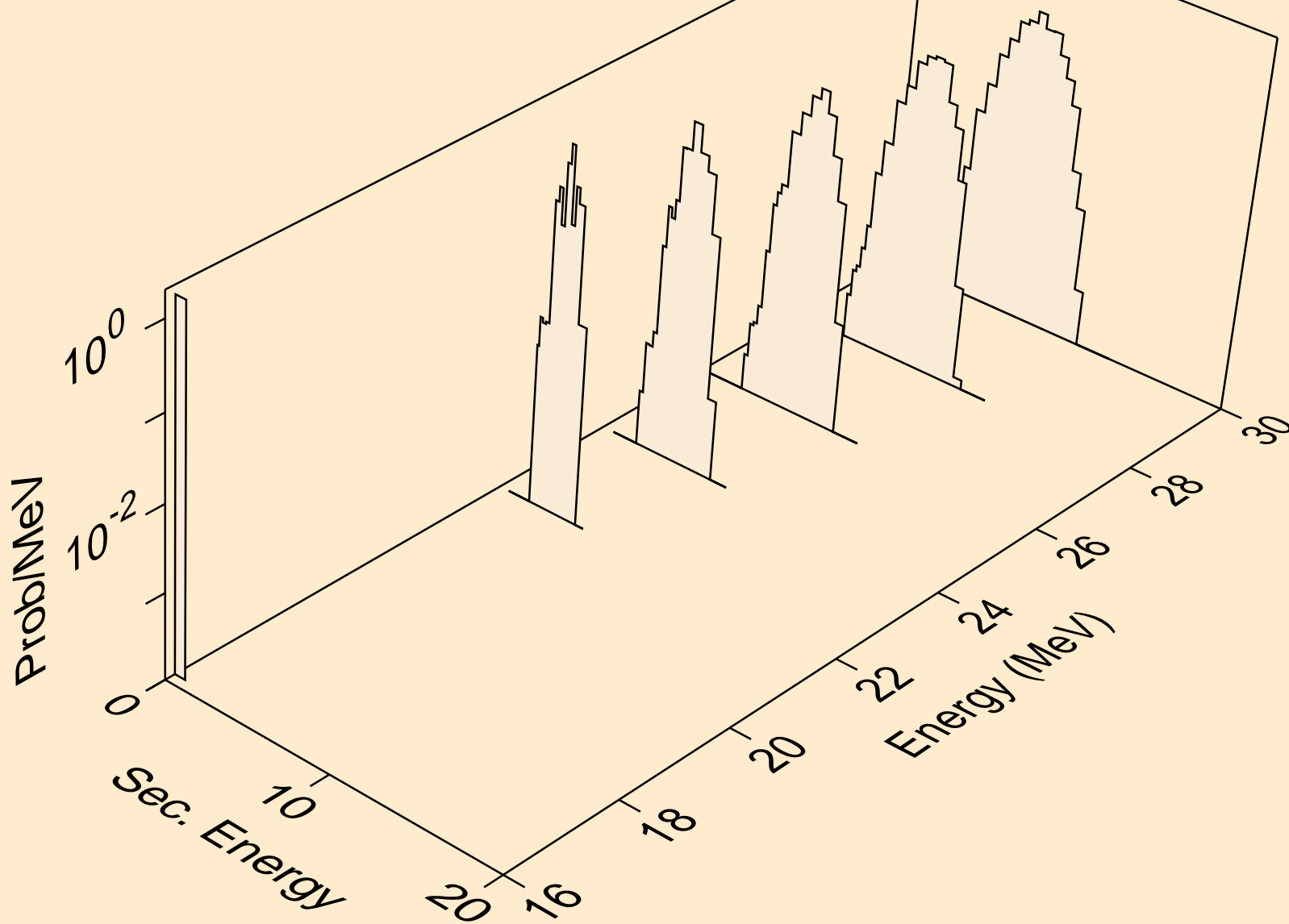
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tritons from (n,n\*)t



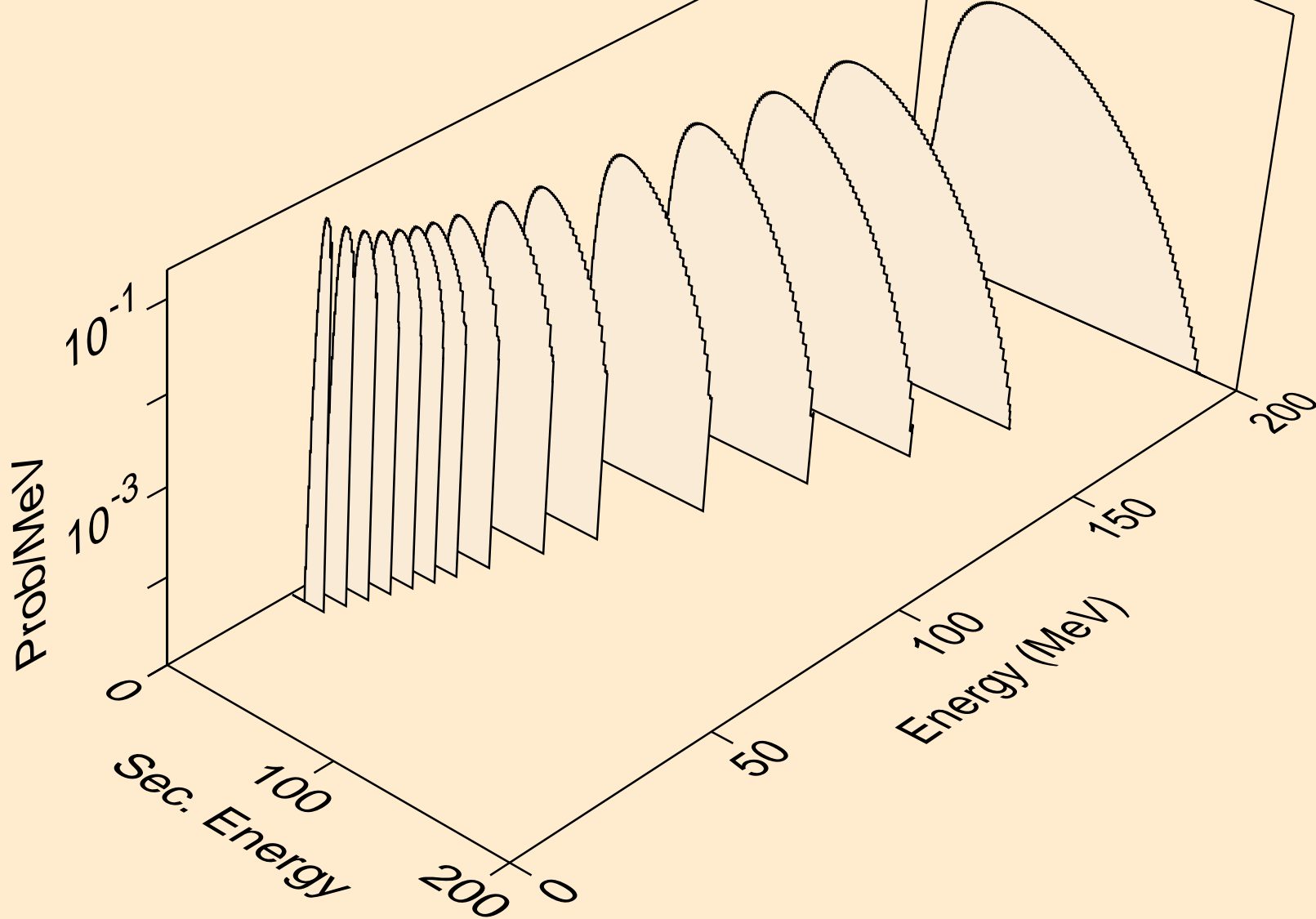
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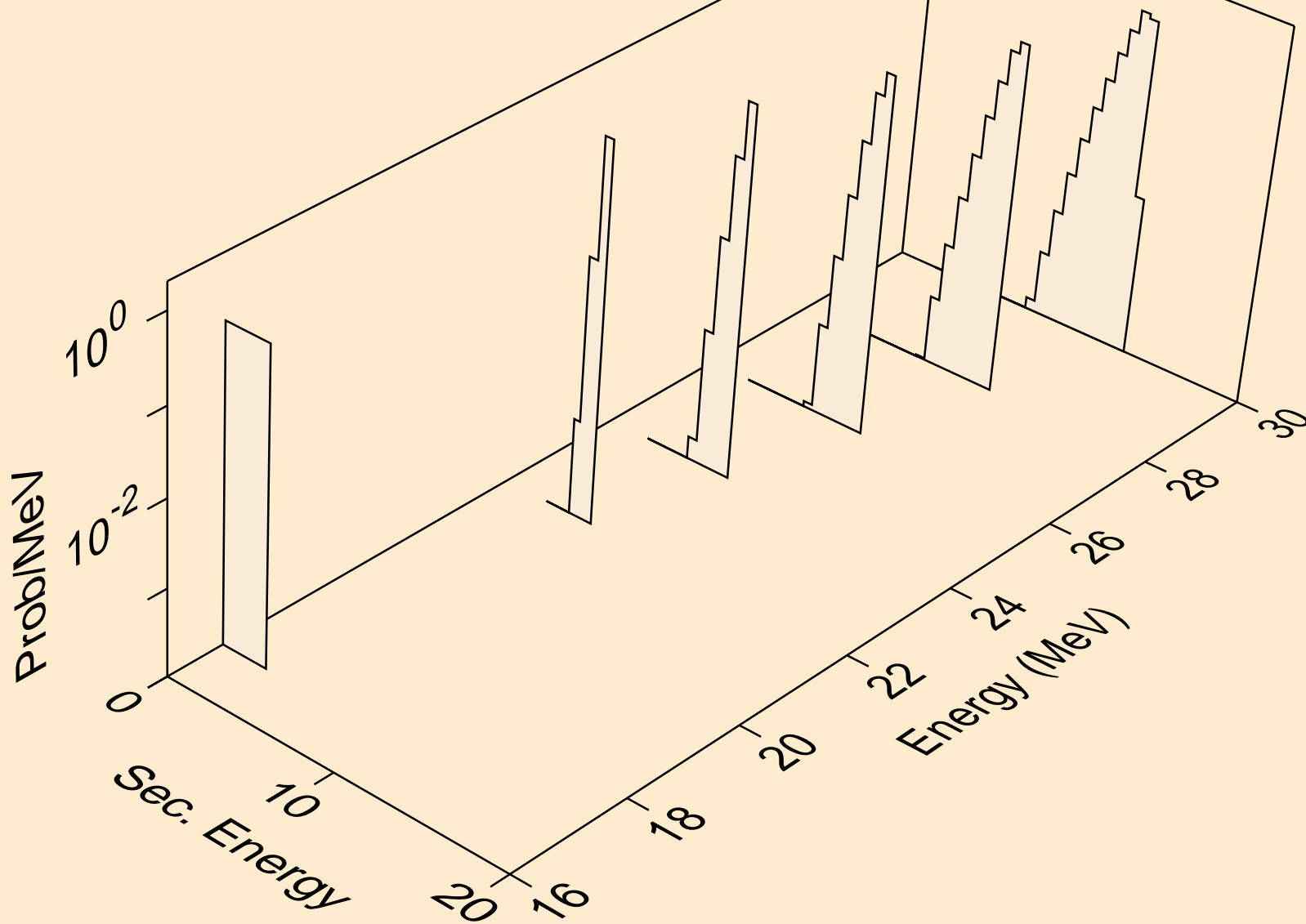
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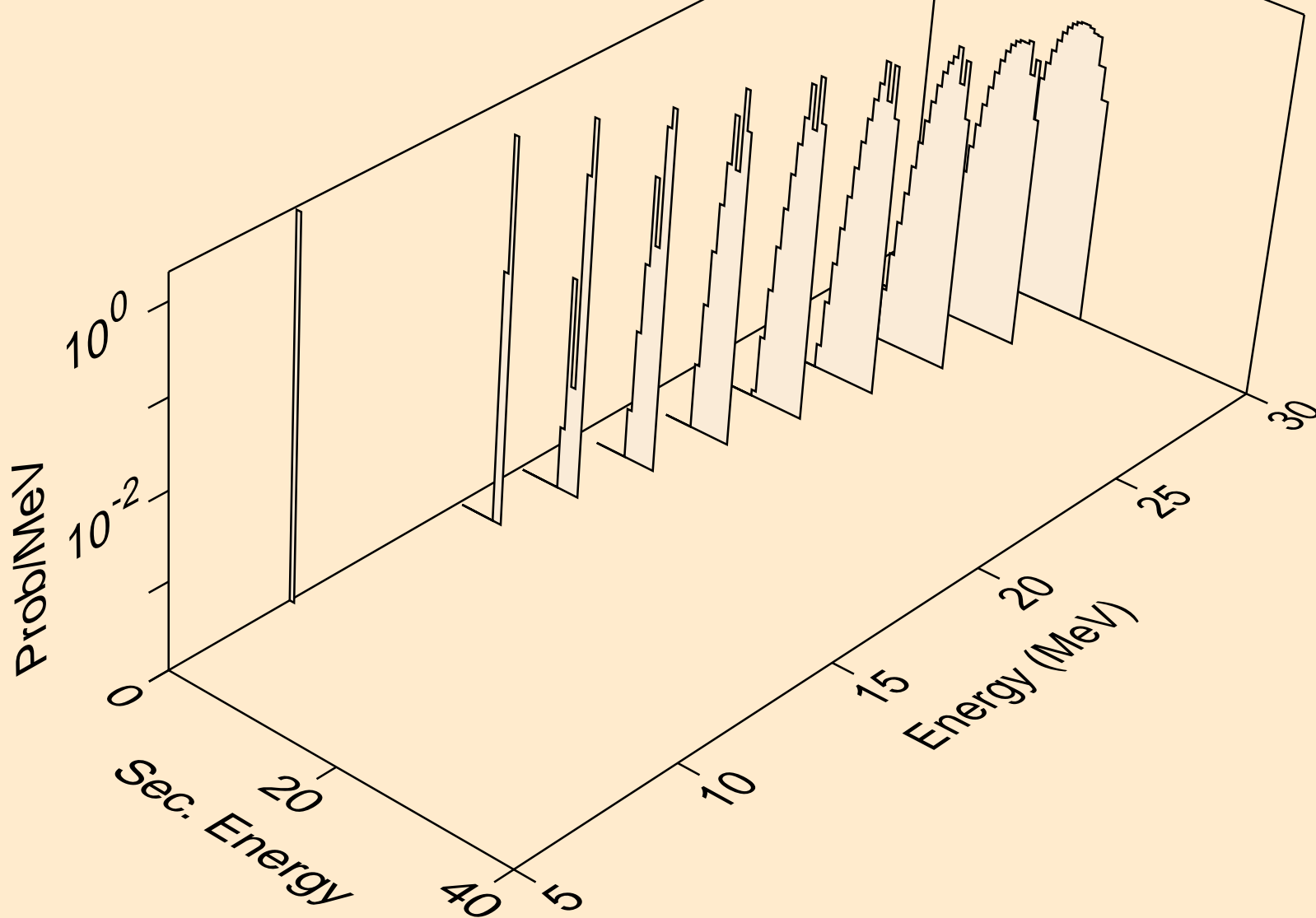
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he3s from (n,x)



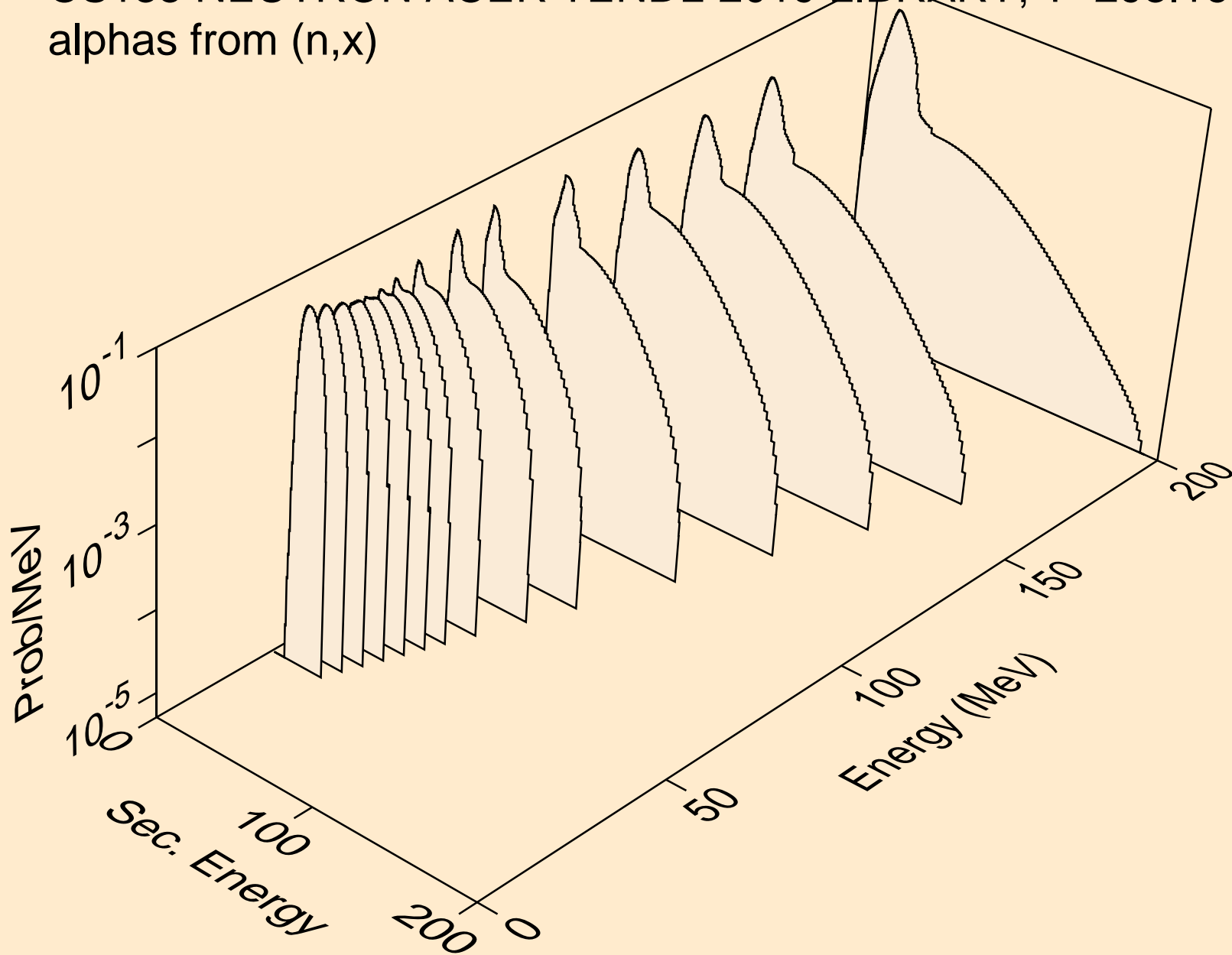
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he3s from (n,n\*)he3



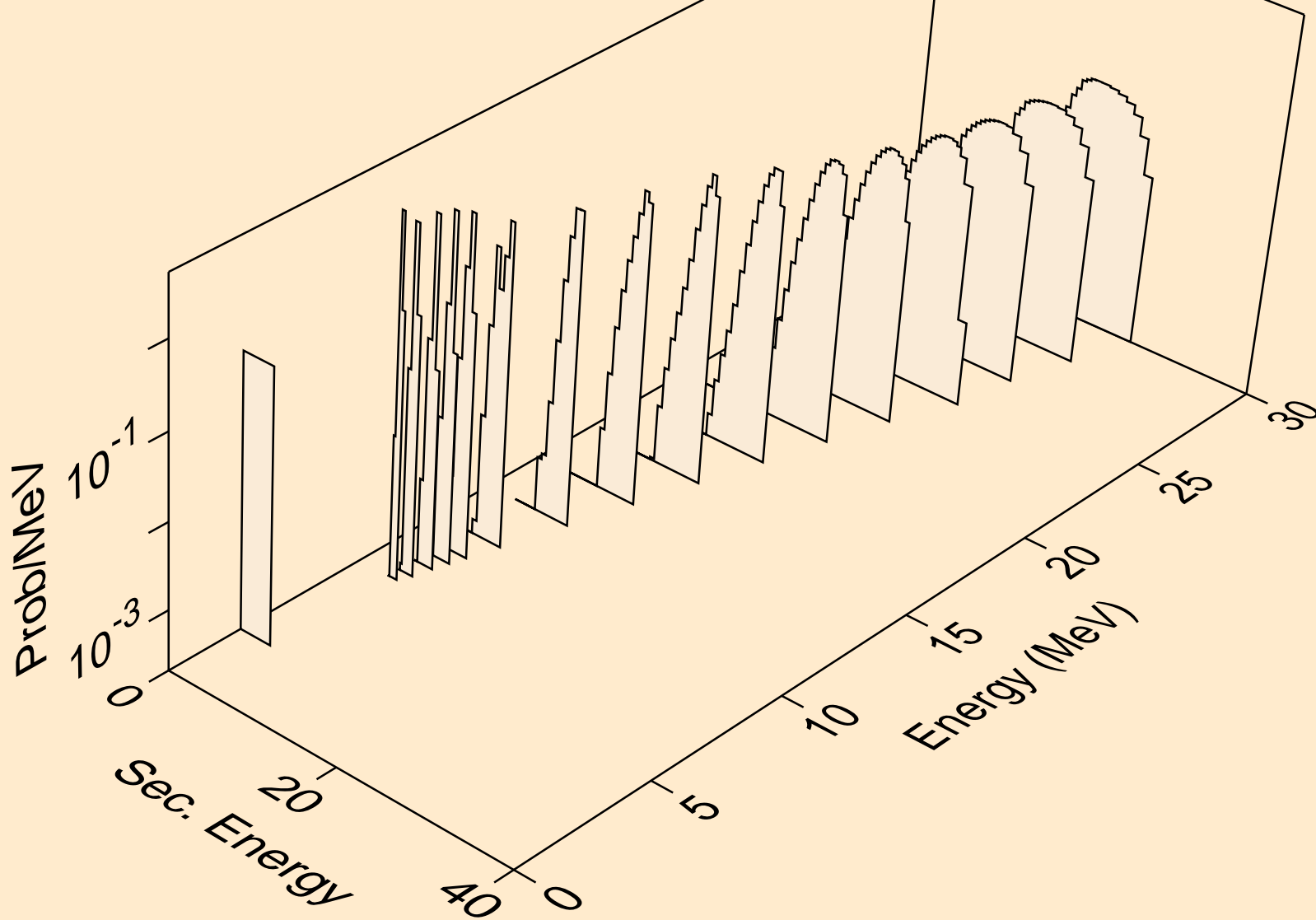
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he3s from (n,he3)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

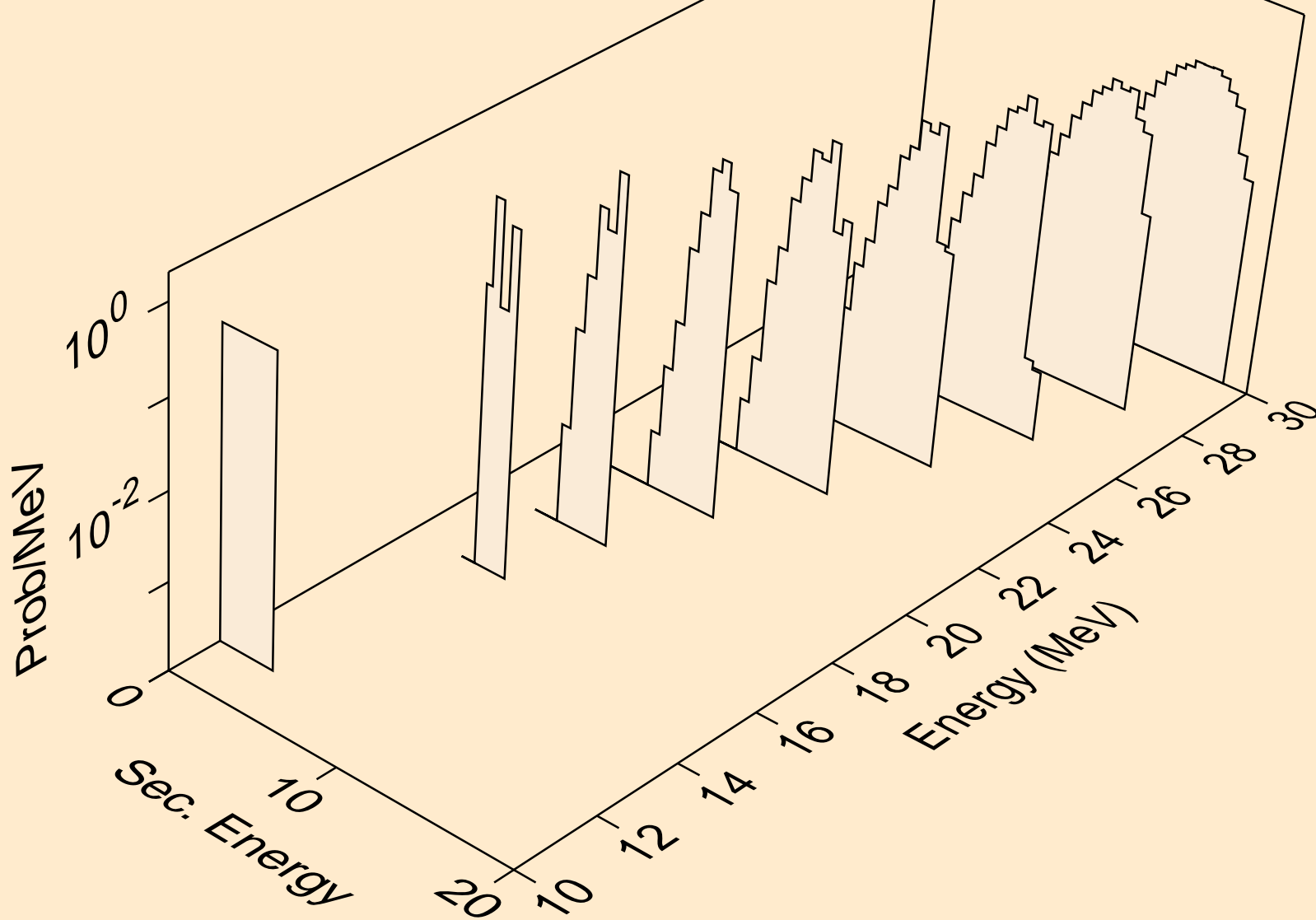


CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a

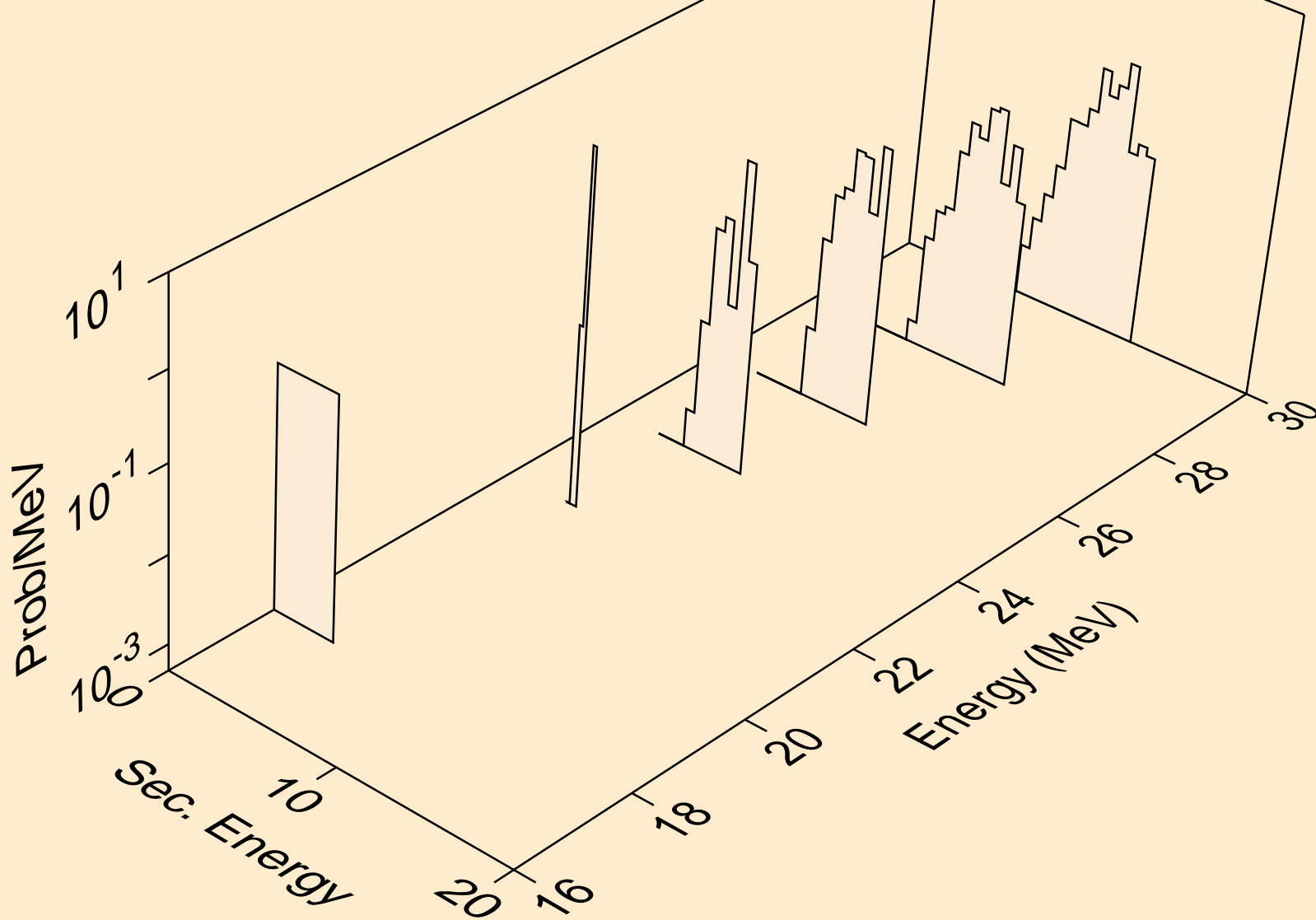




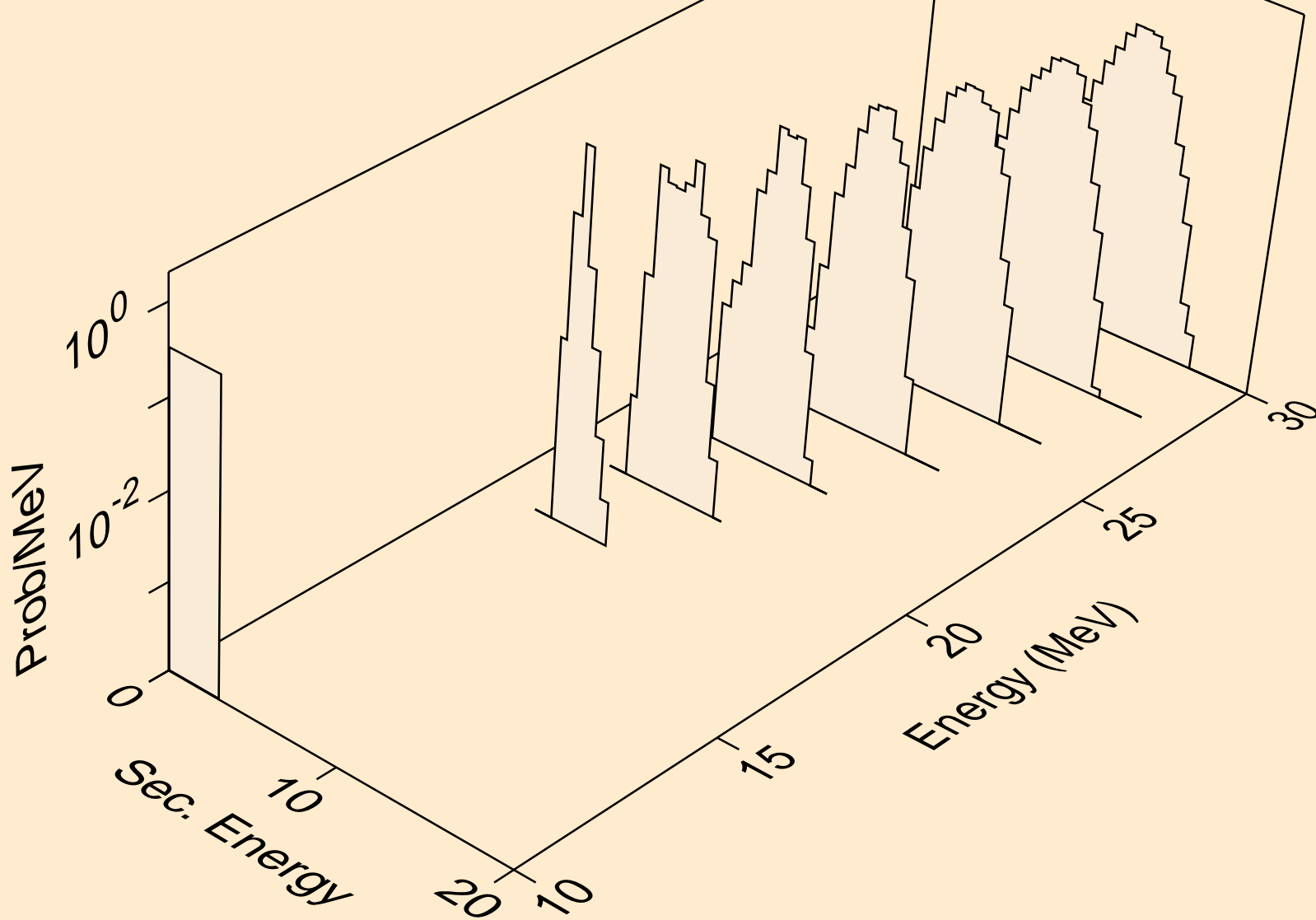
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



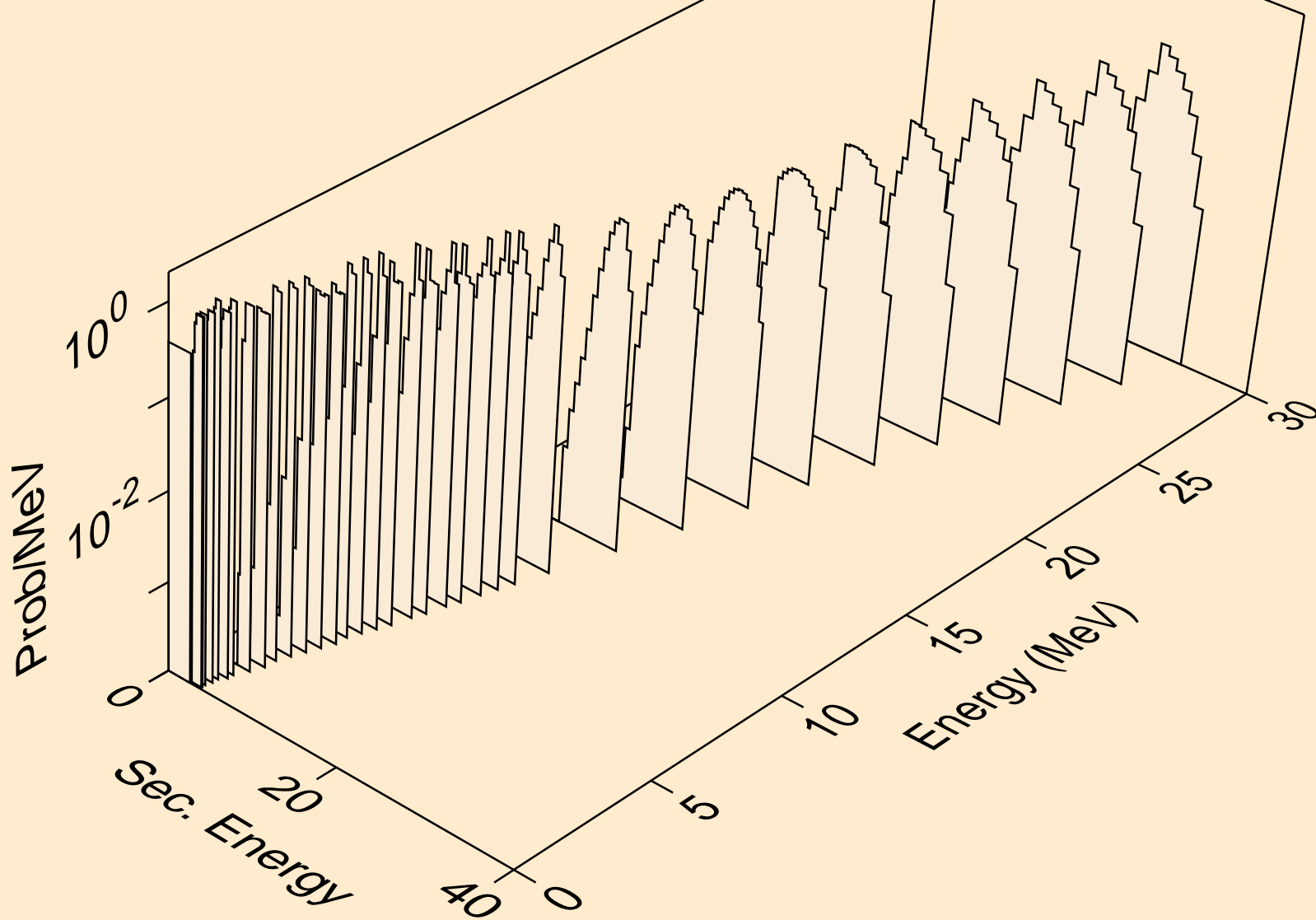
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alphas from (n,3n)a



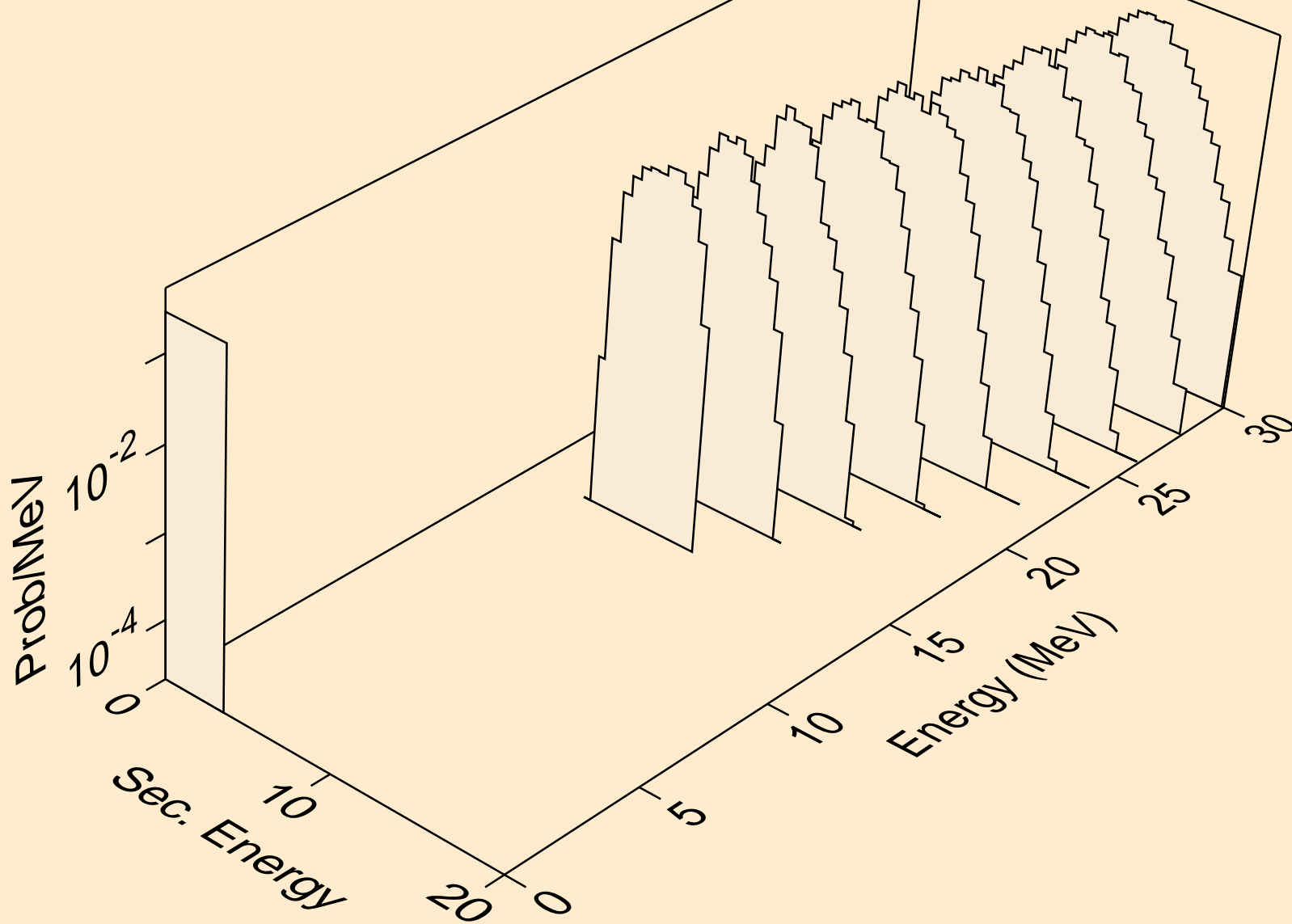
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



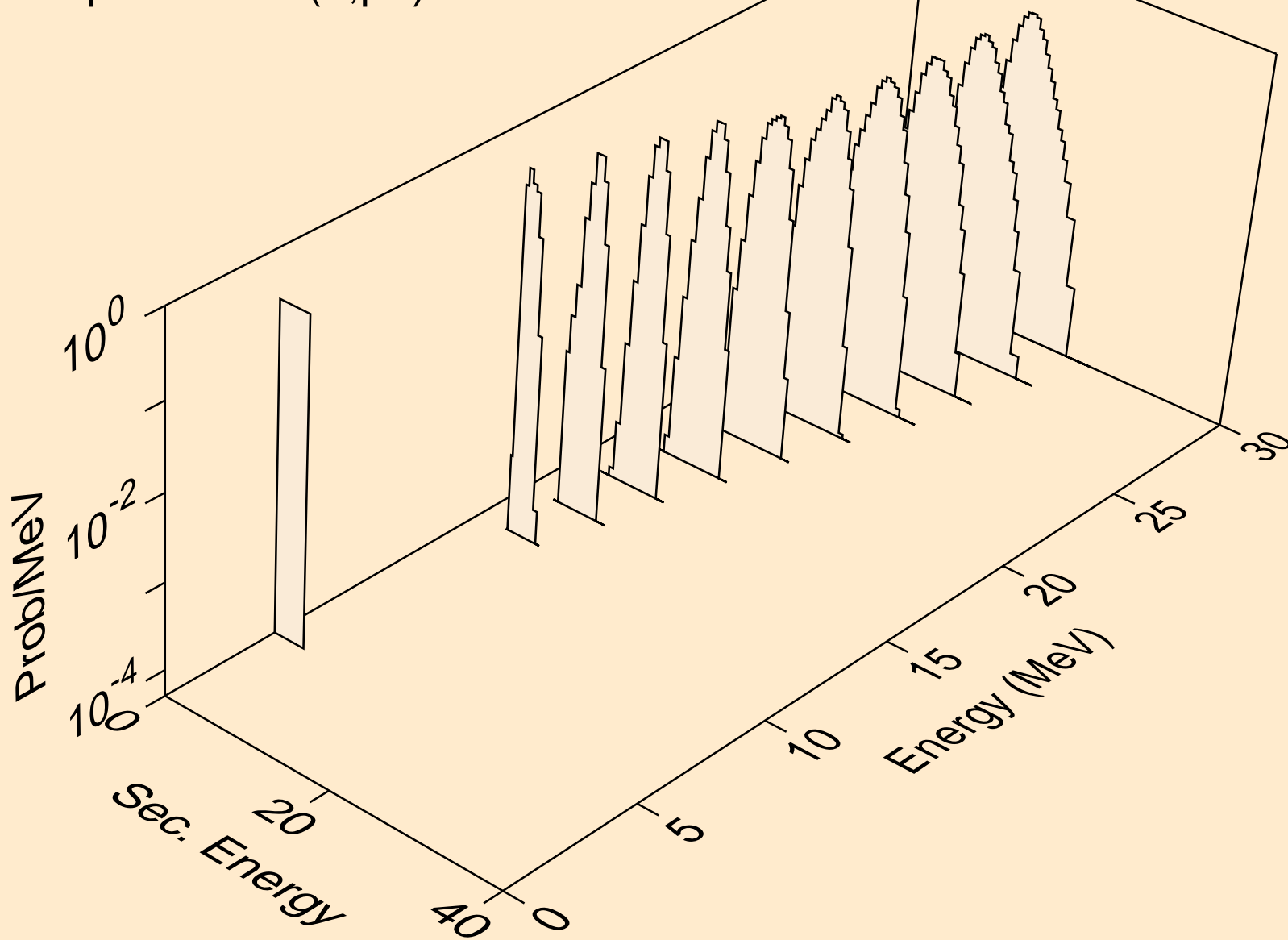
CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



CS135 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

