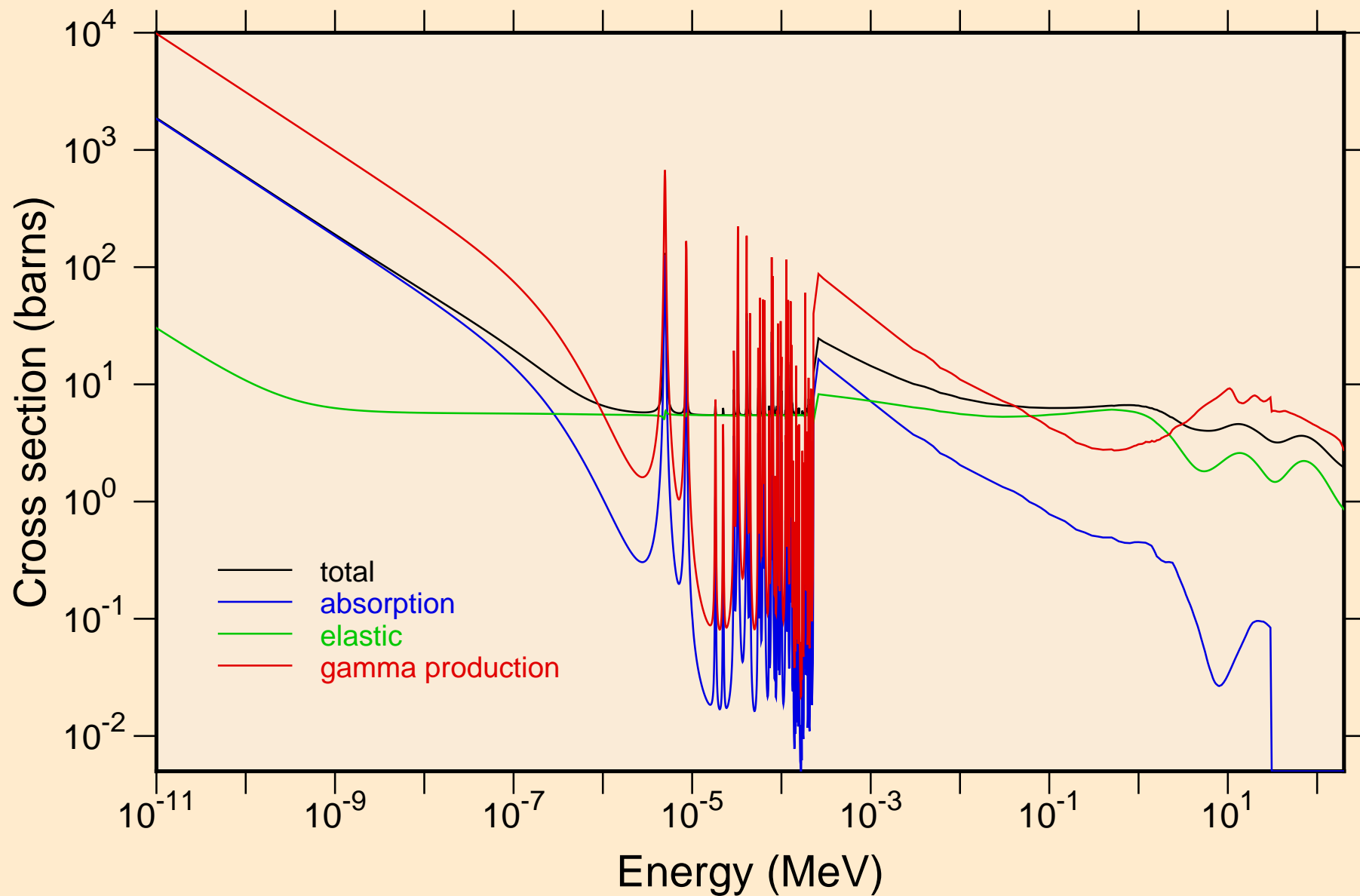
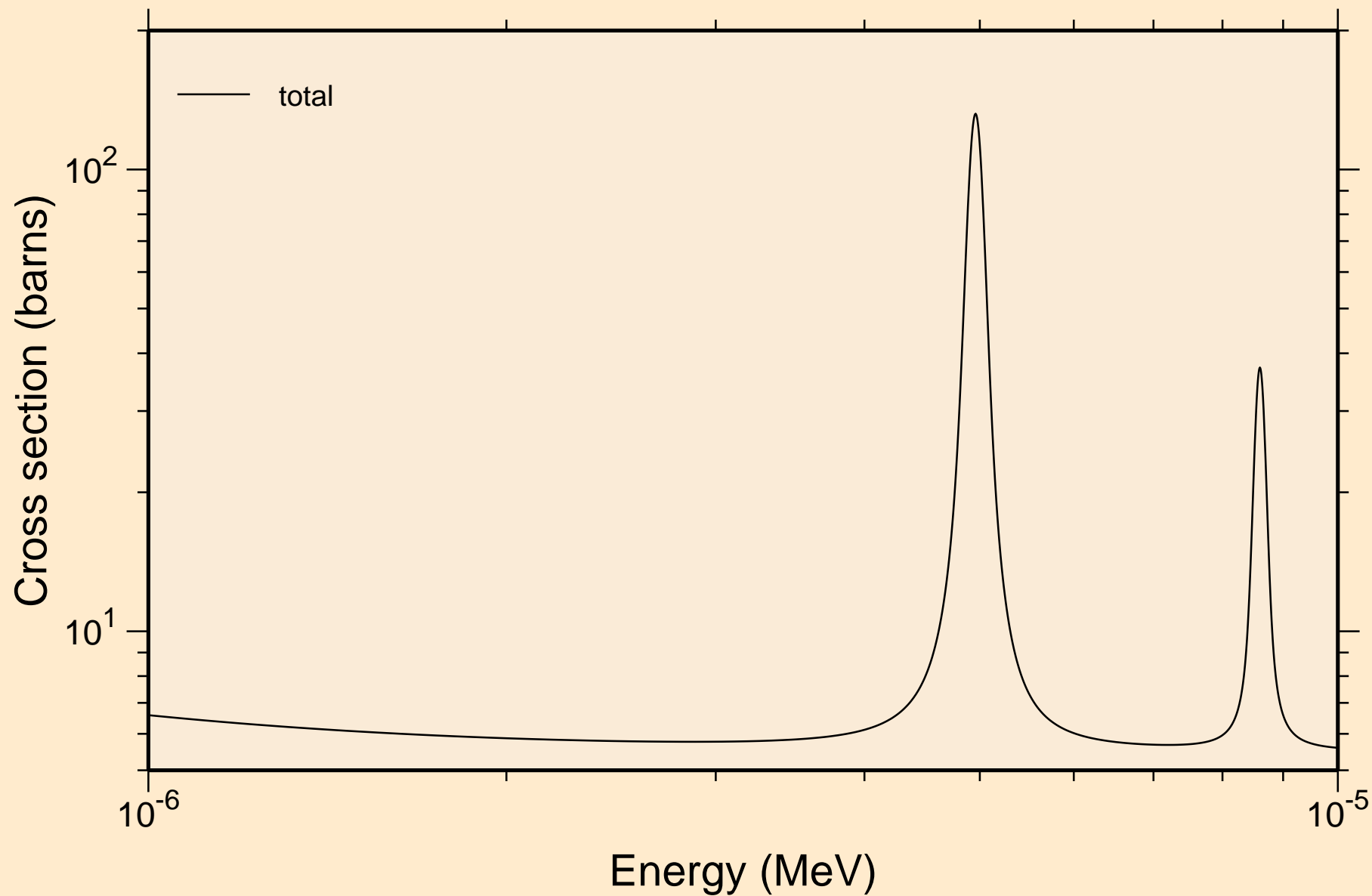


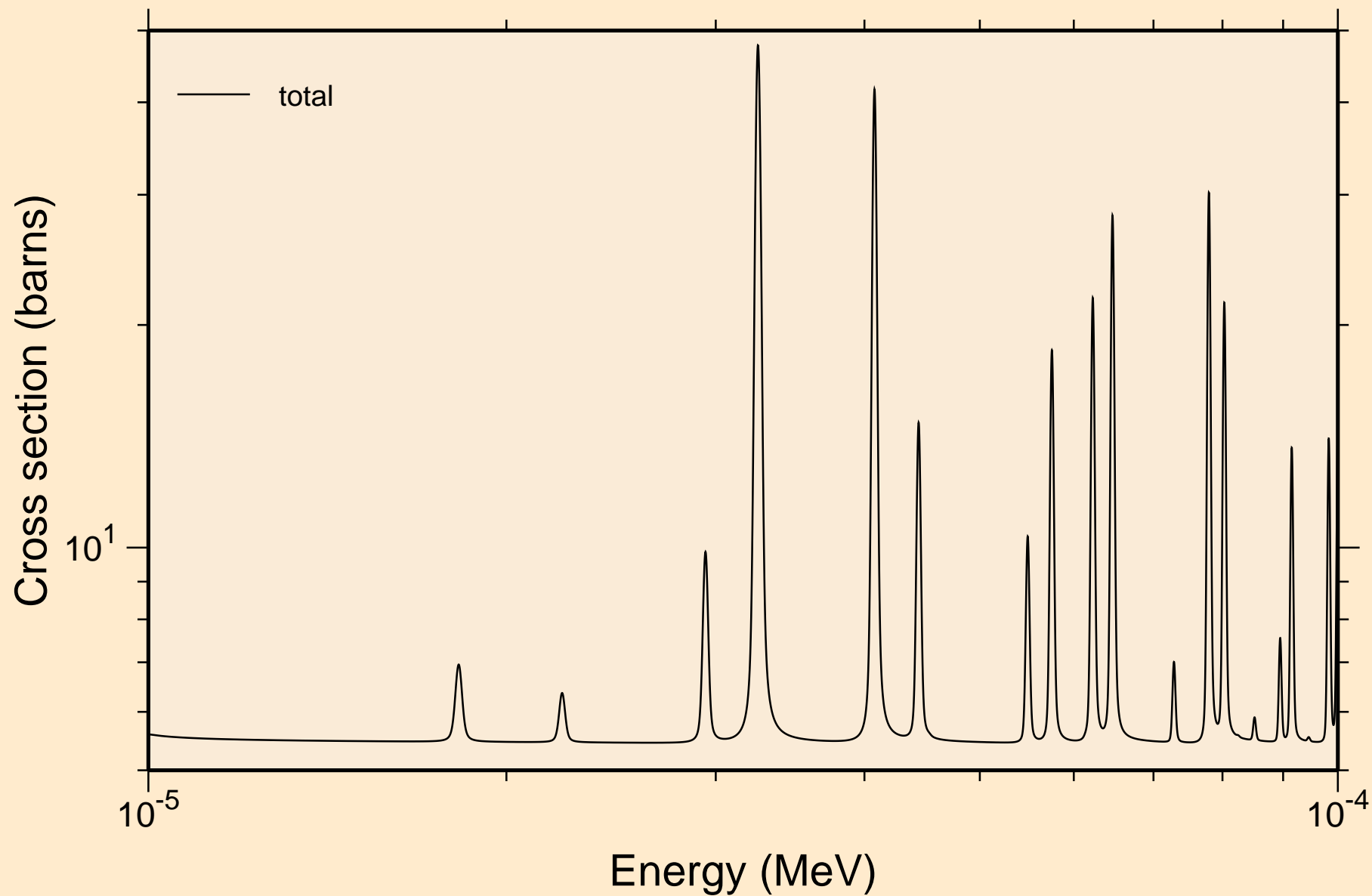
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Principal cross sections



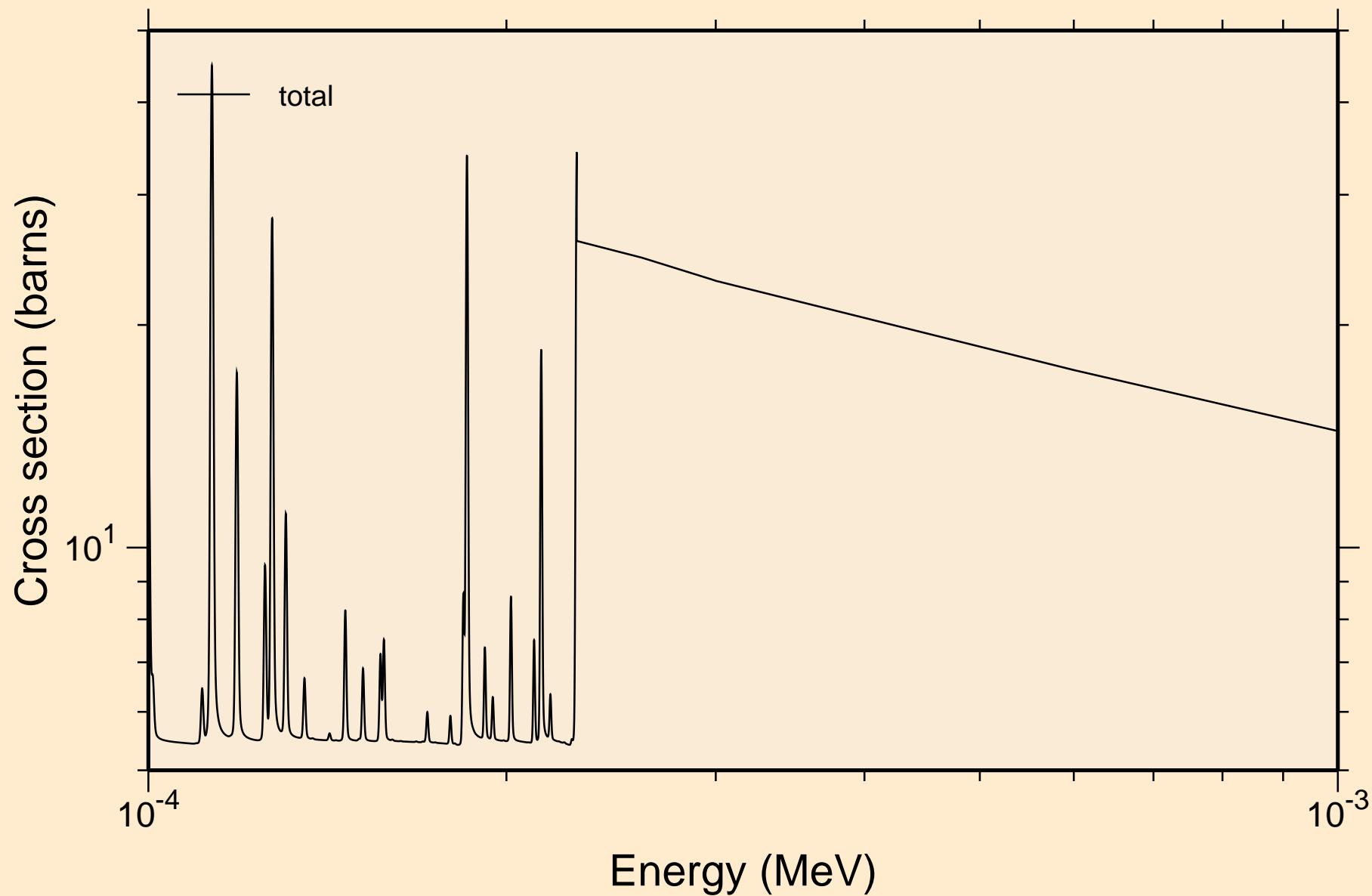
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resonance total cross section



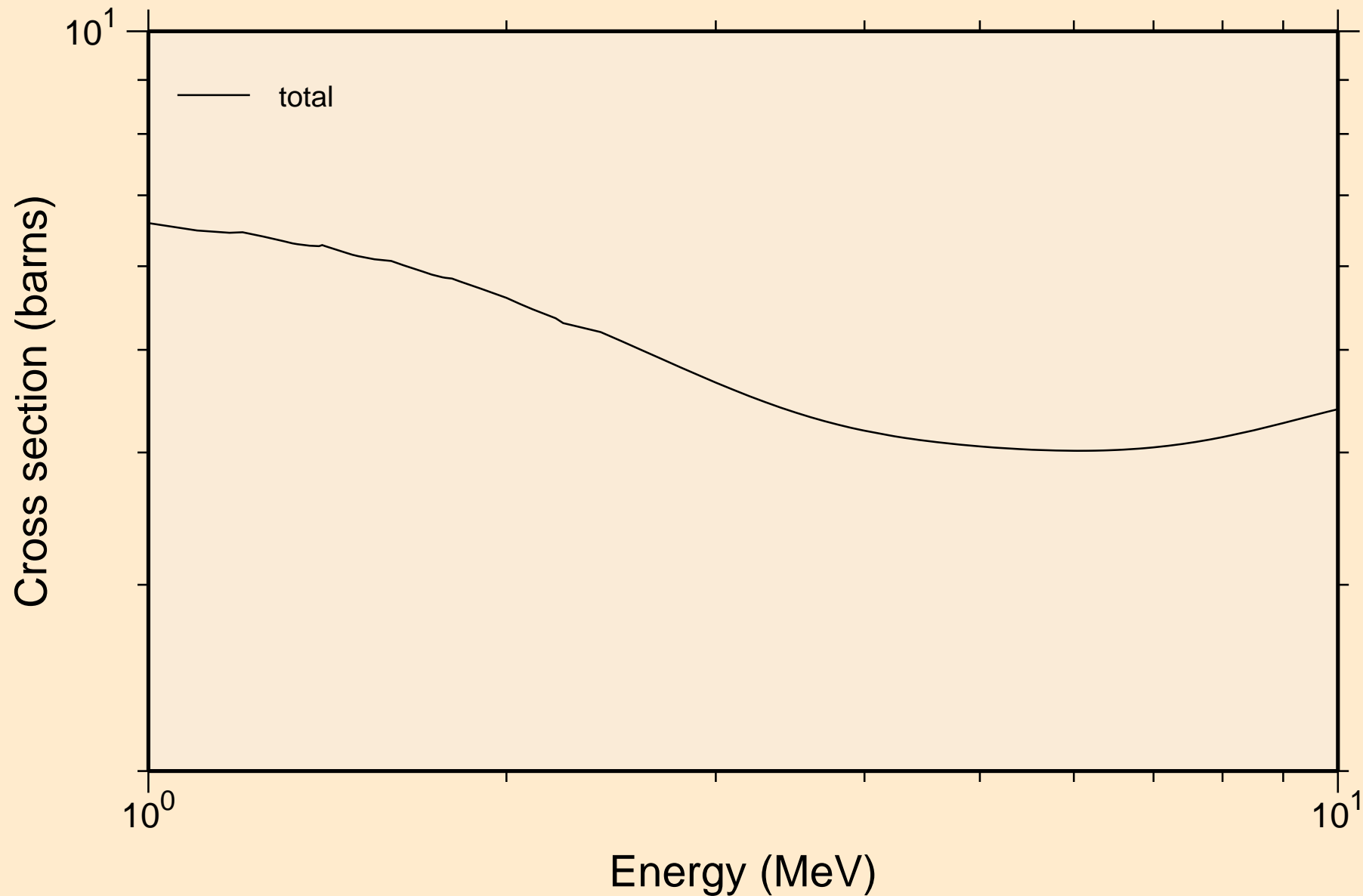
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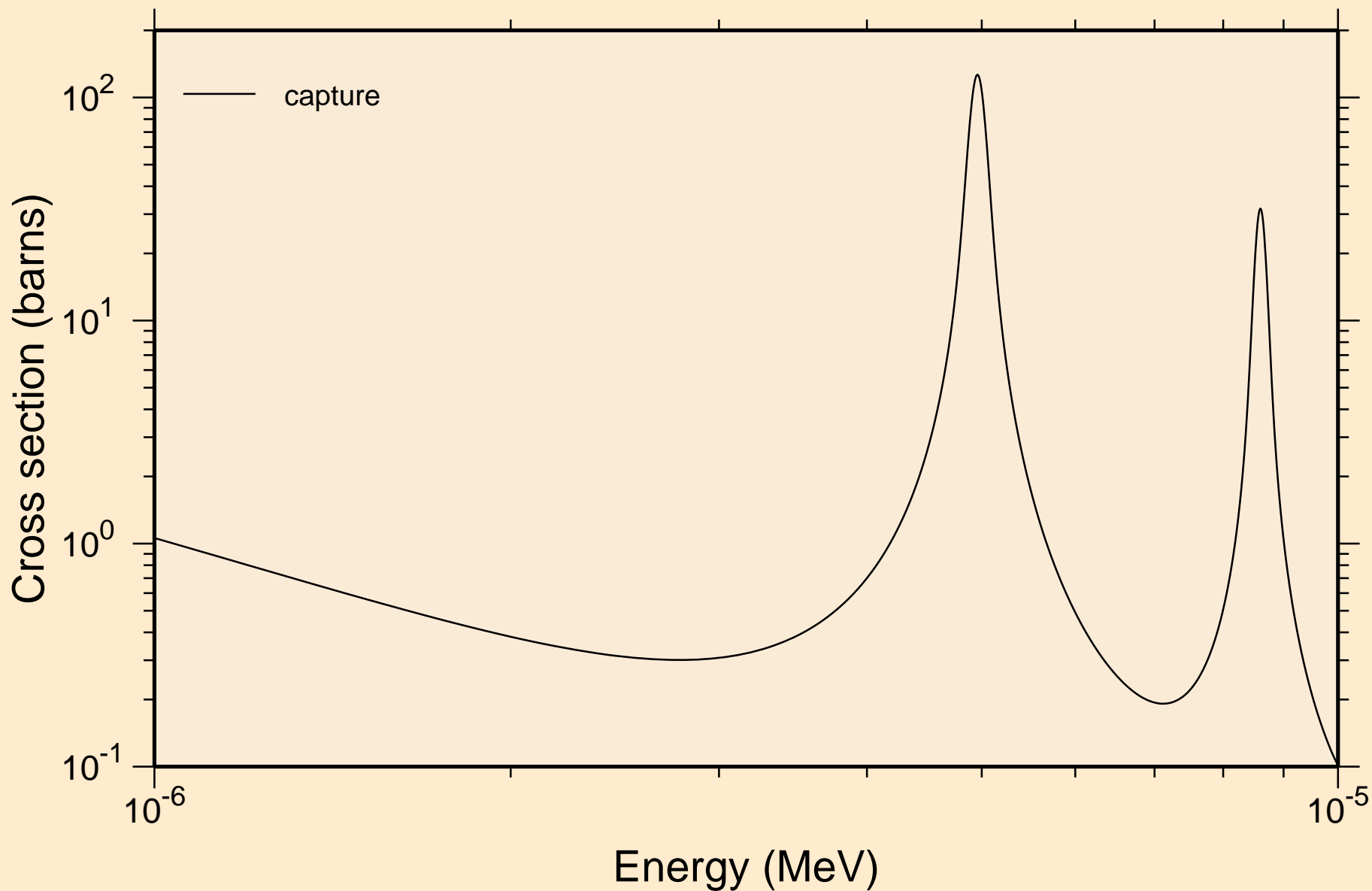
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resonance total cross section



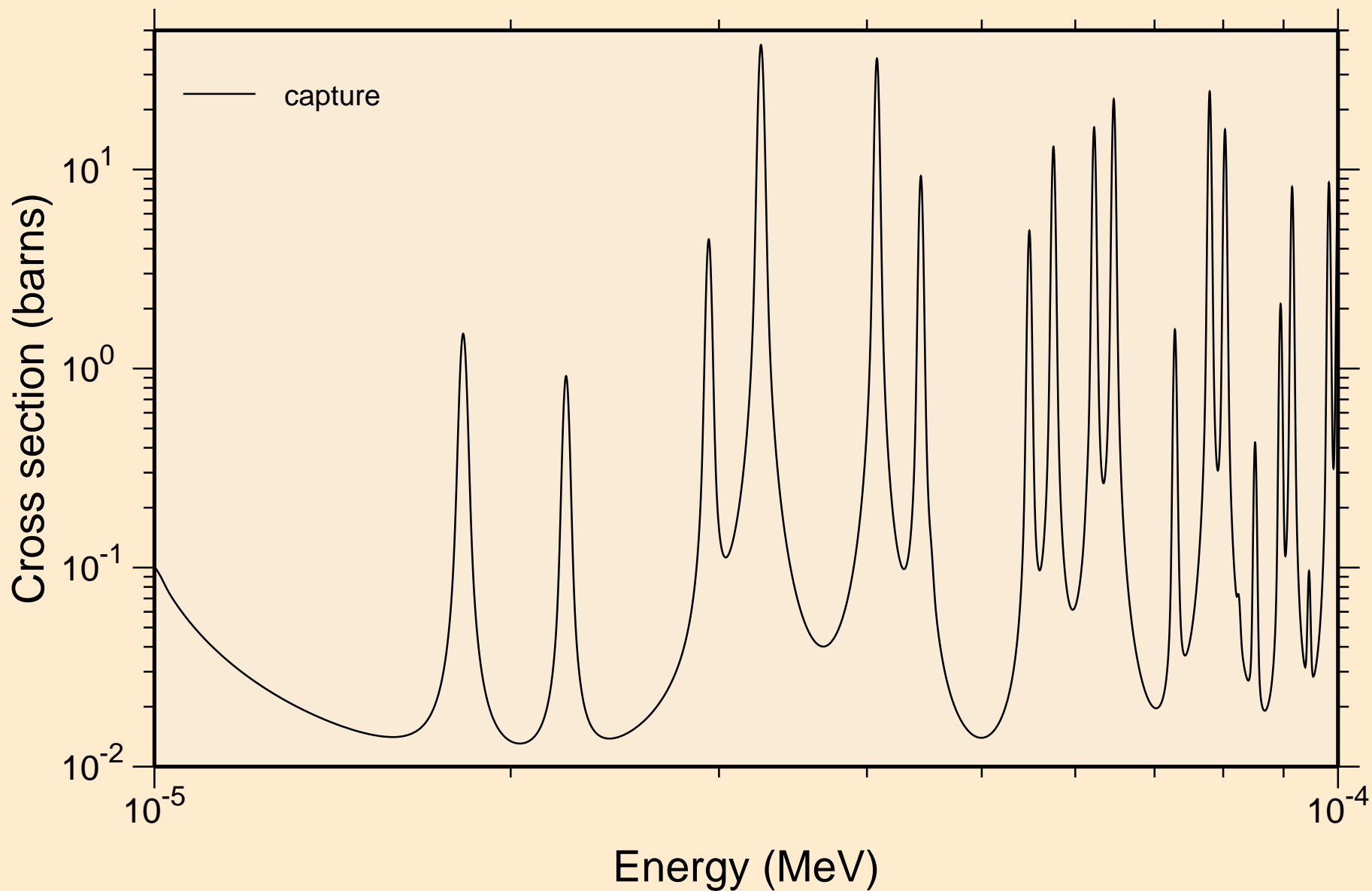
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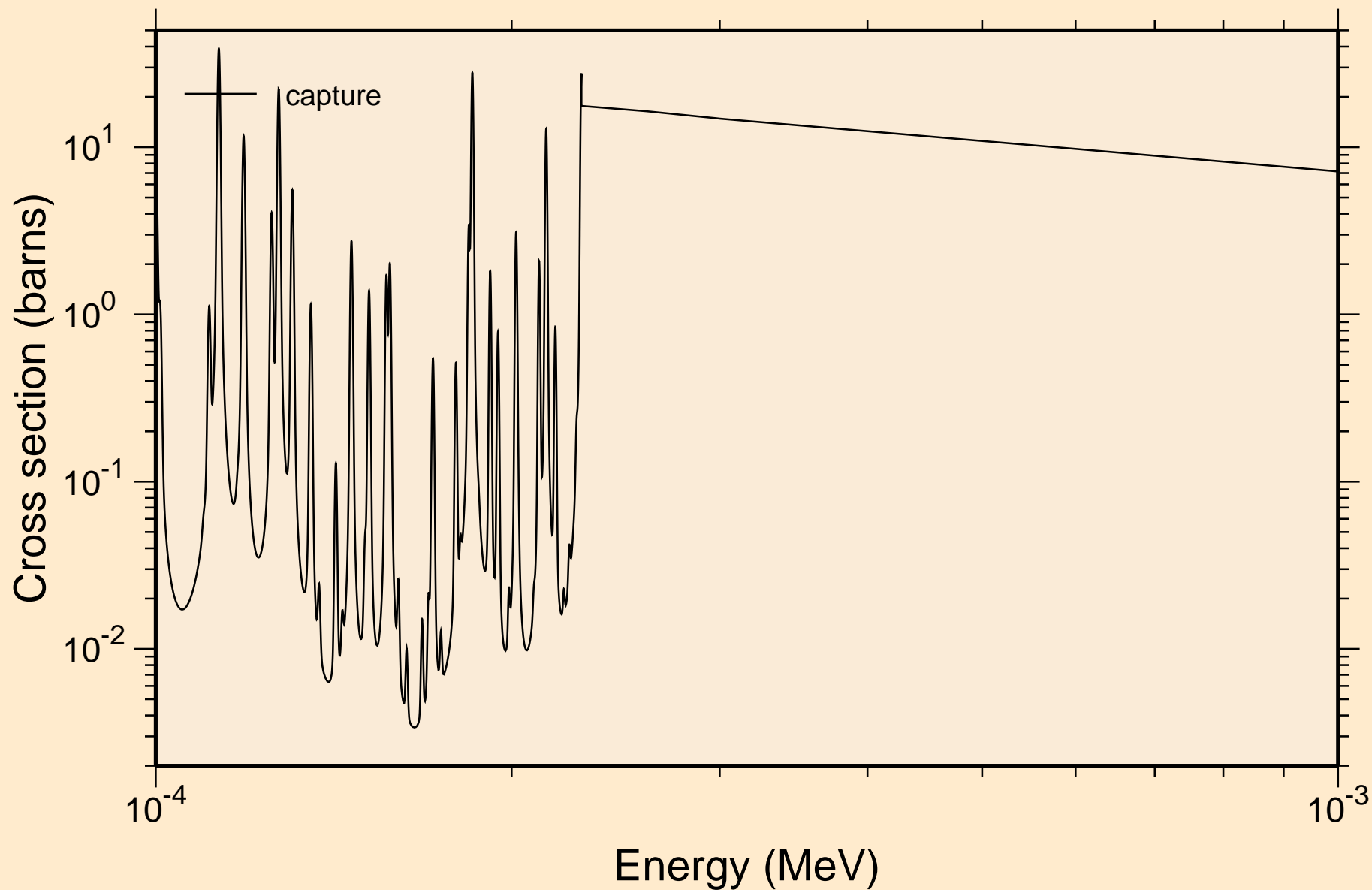
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

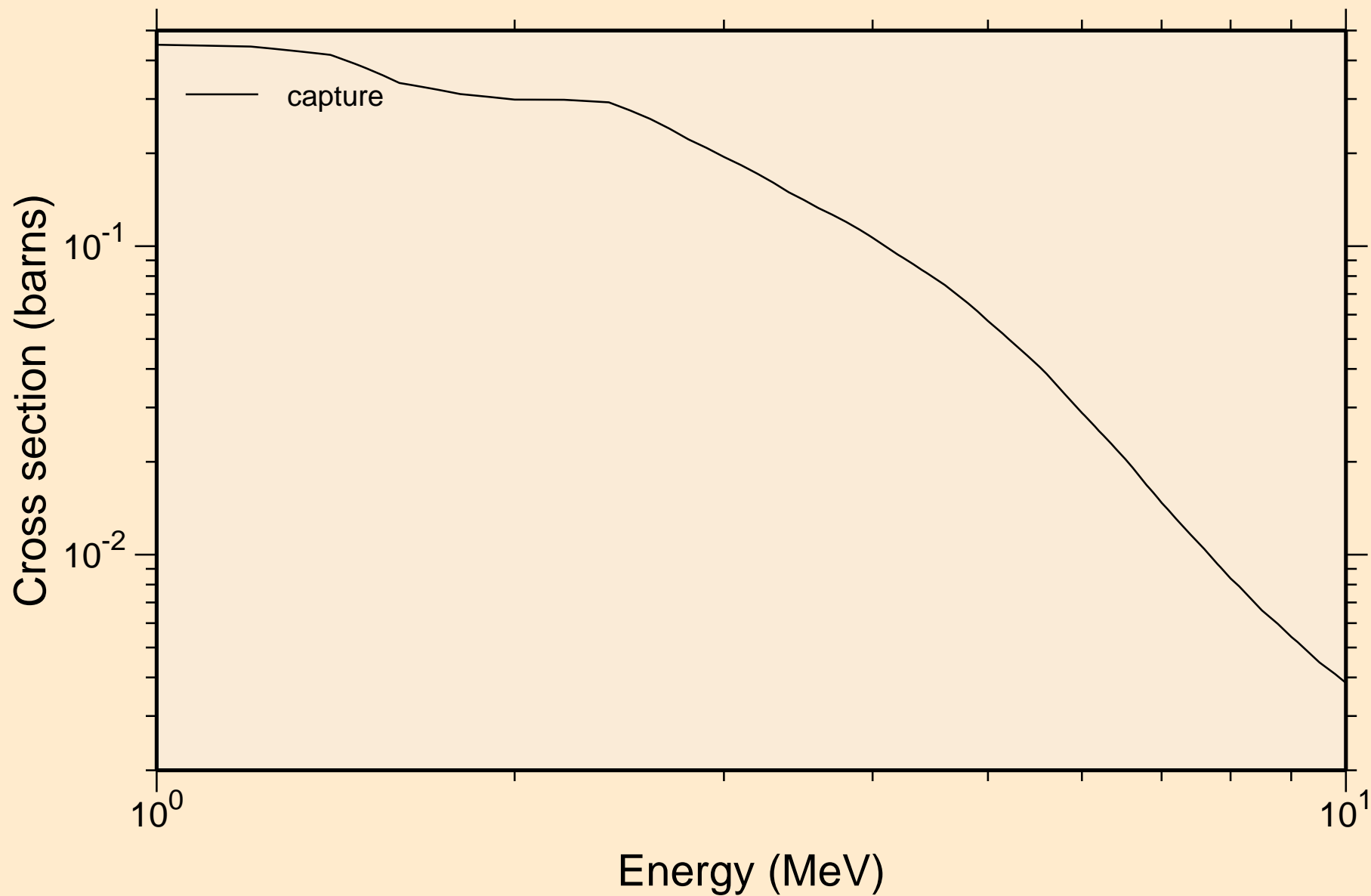


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

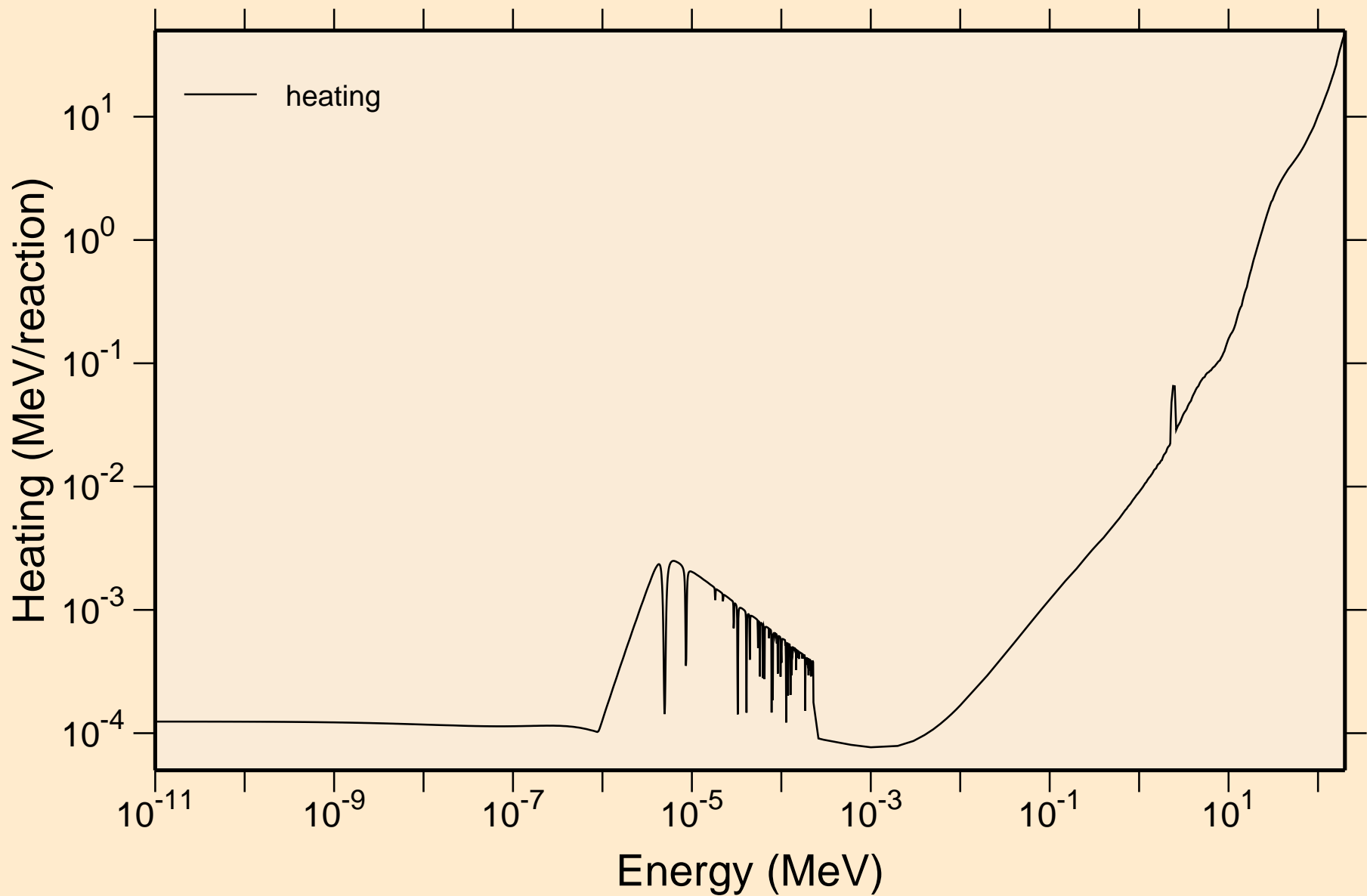




SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

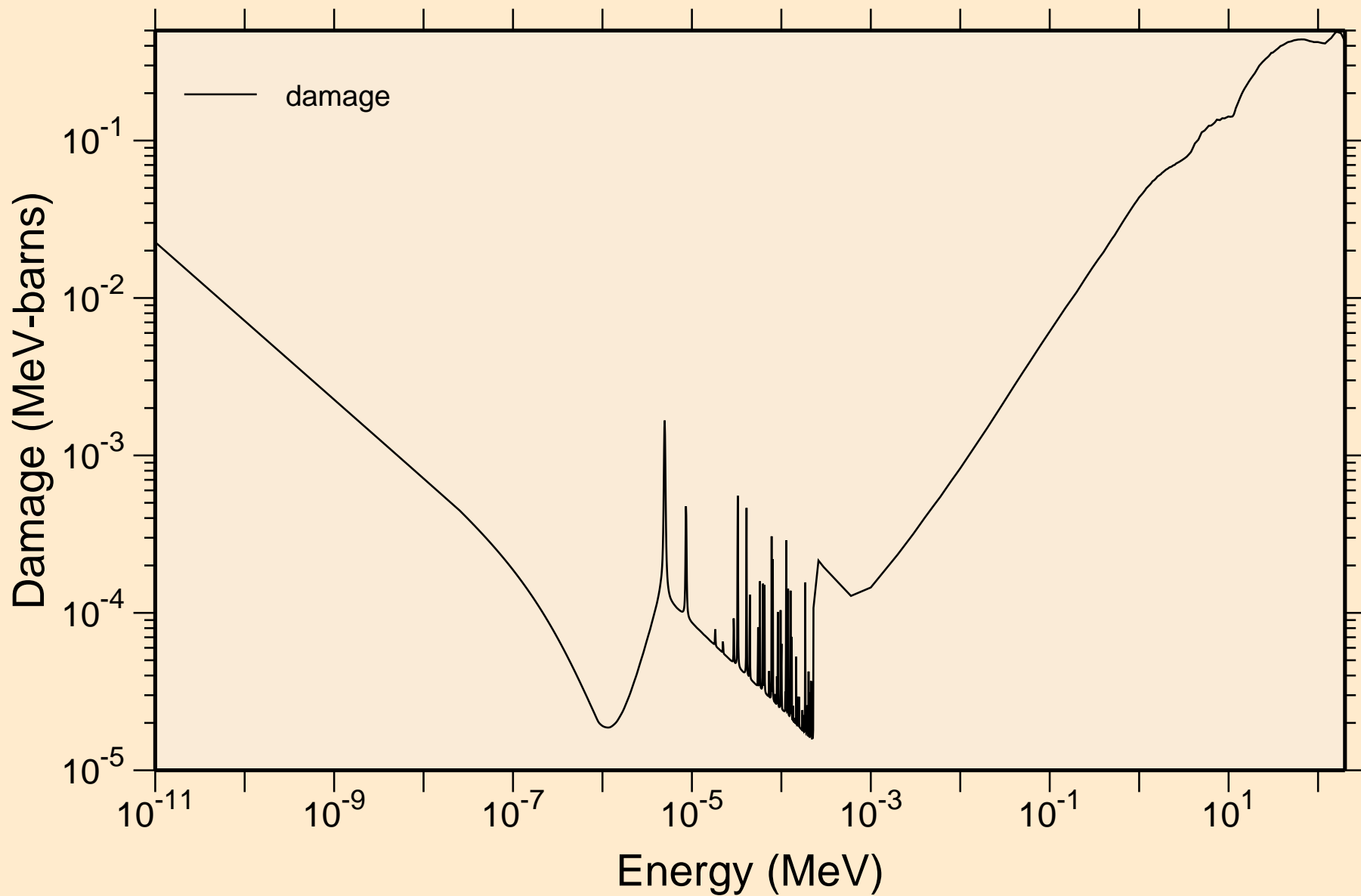


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



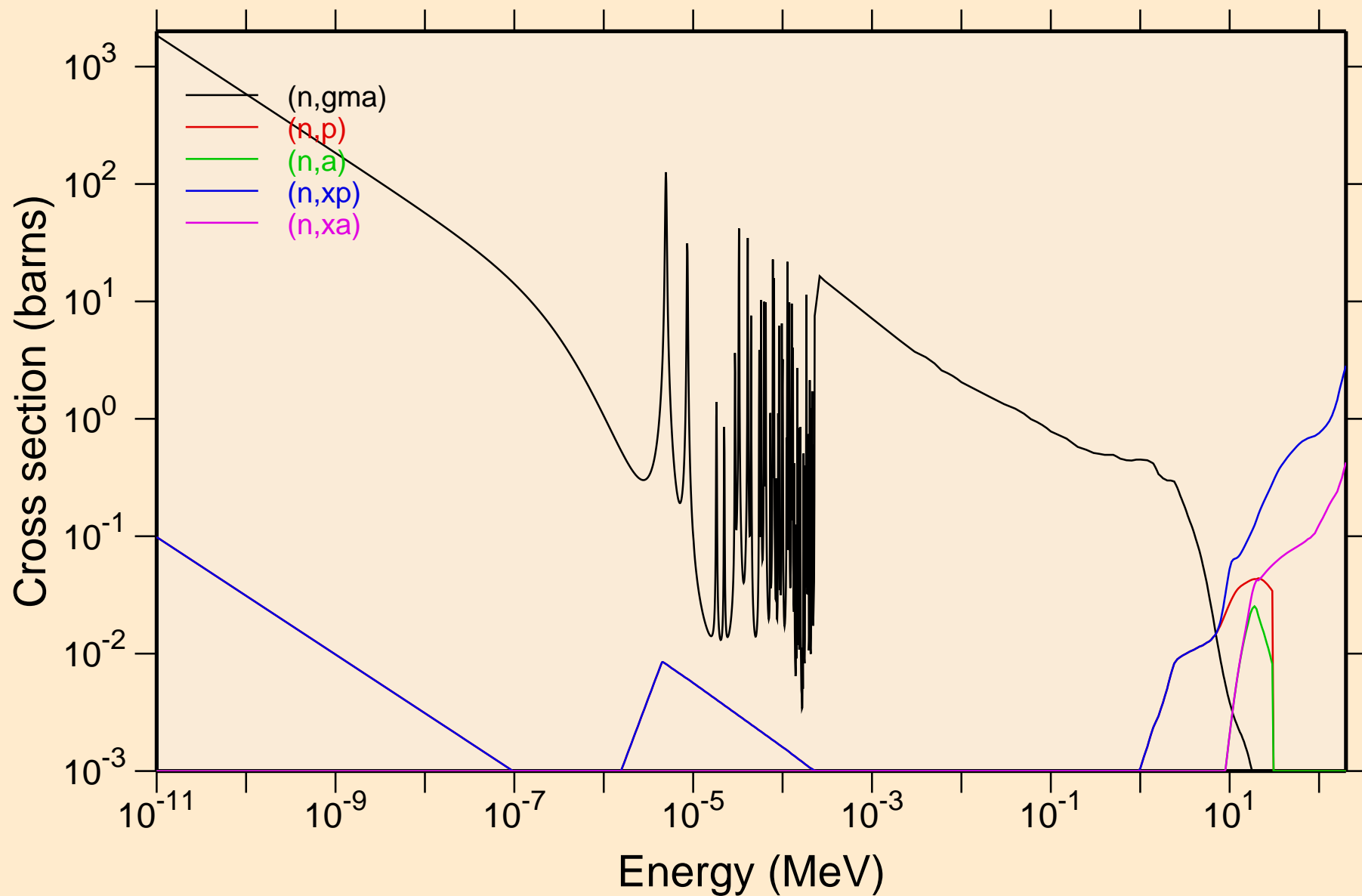
# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage



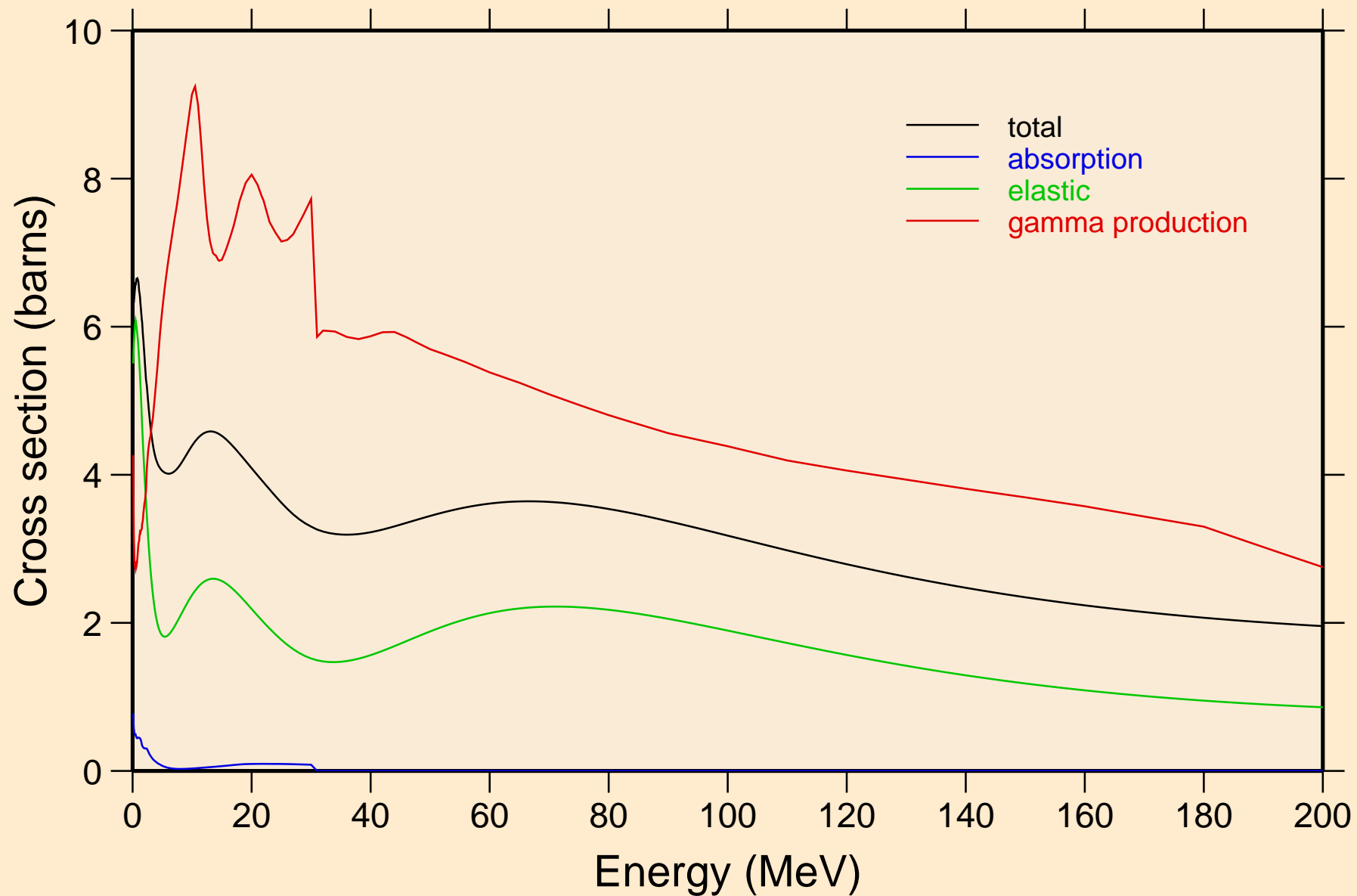
# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

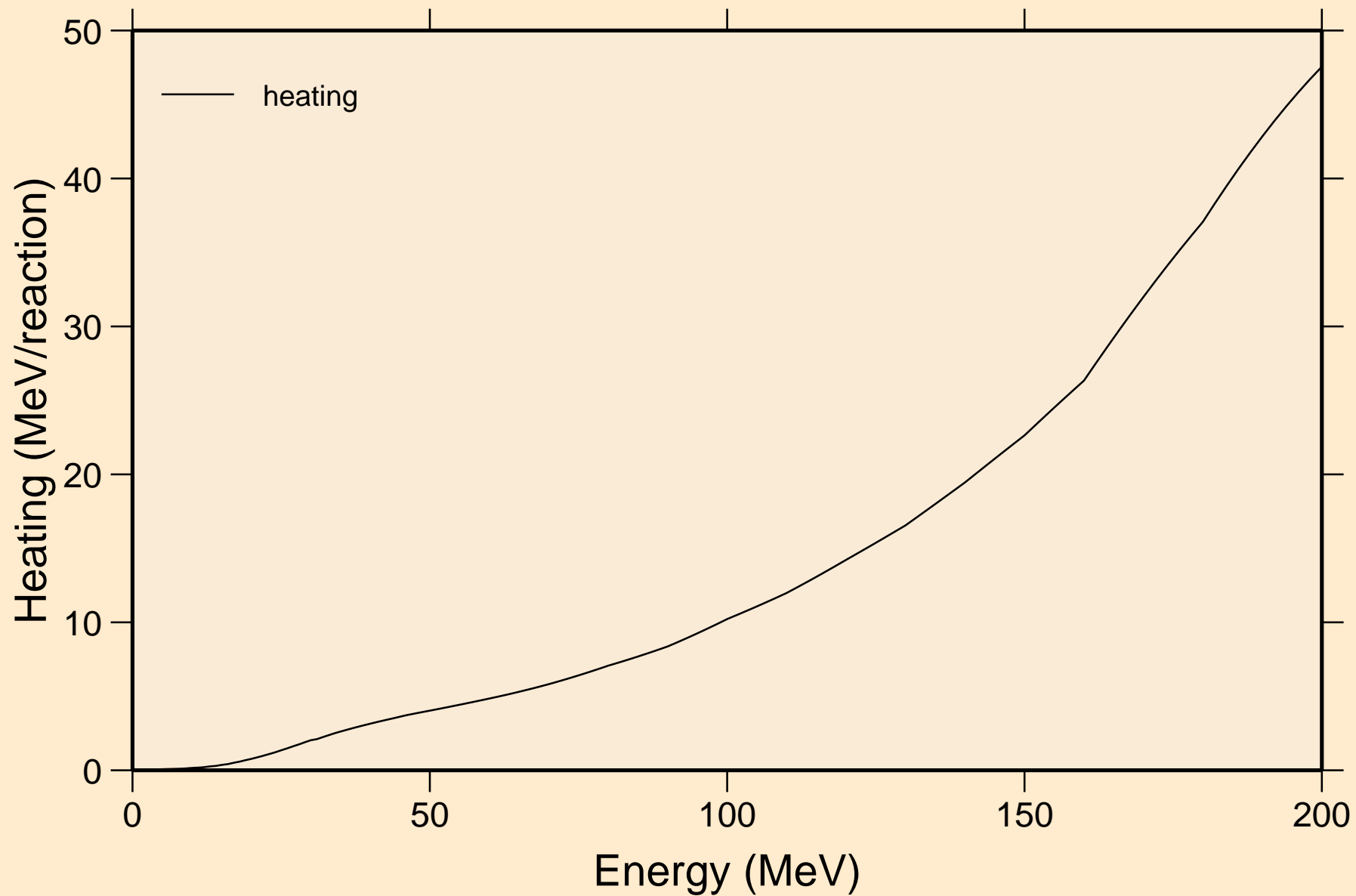


# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

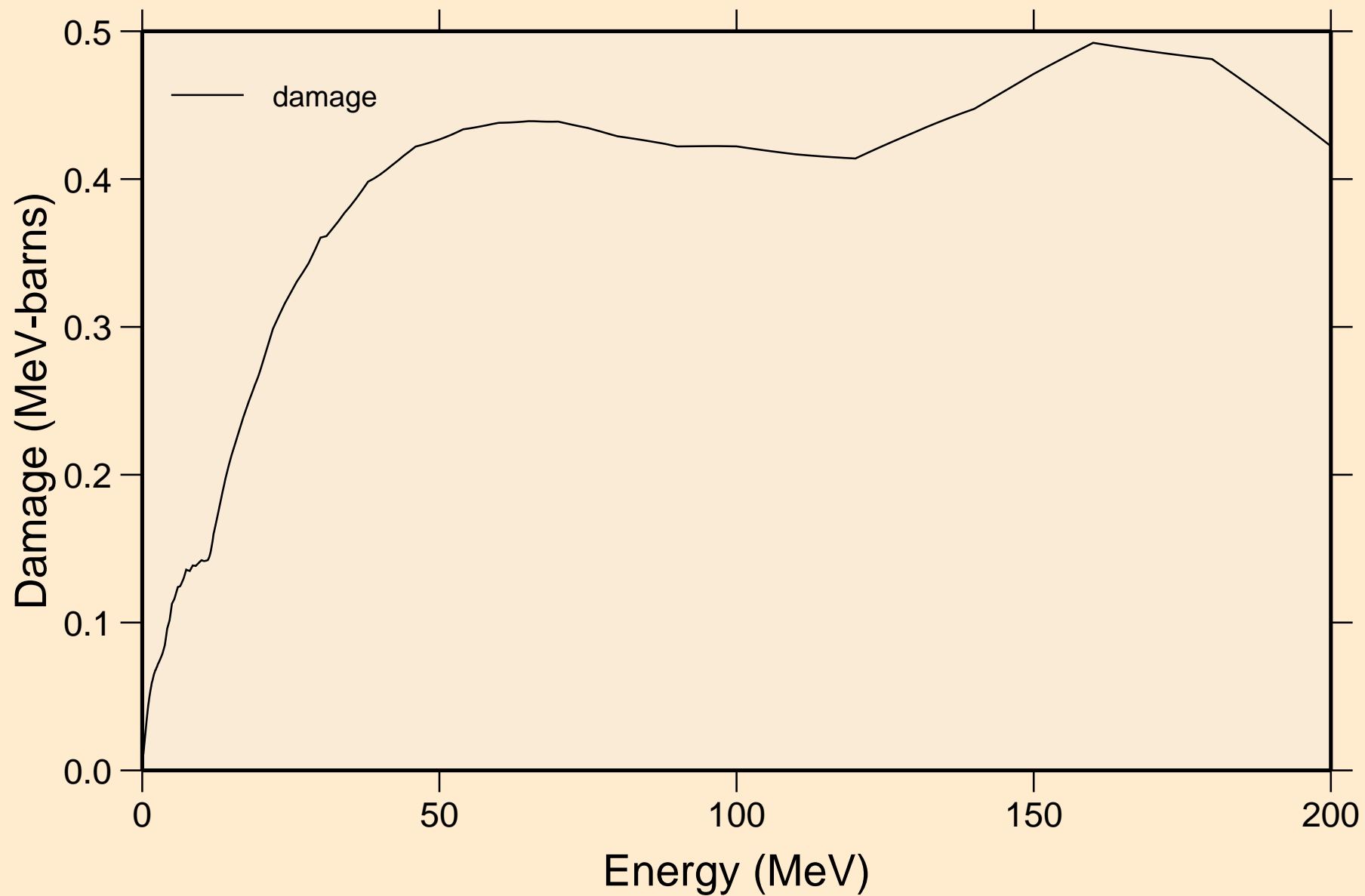
## Principal cross sections



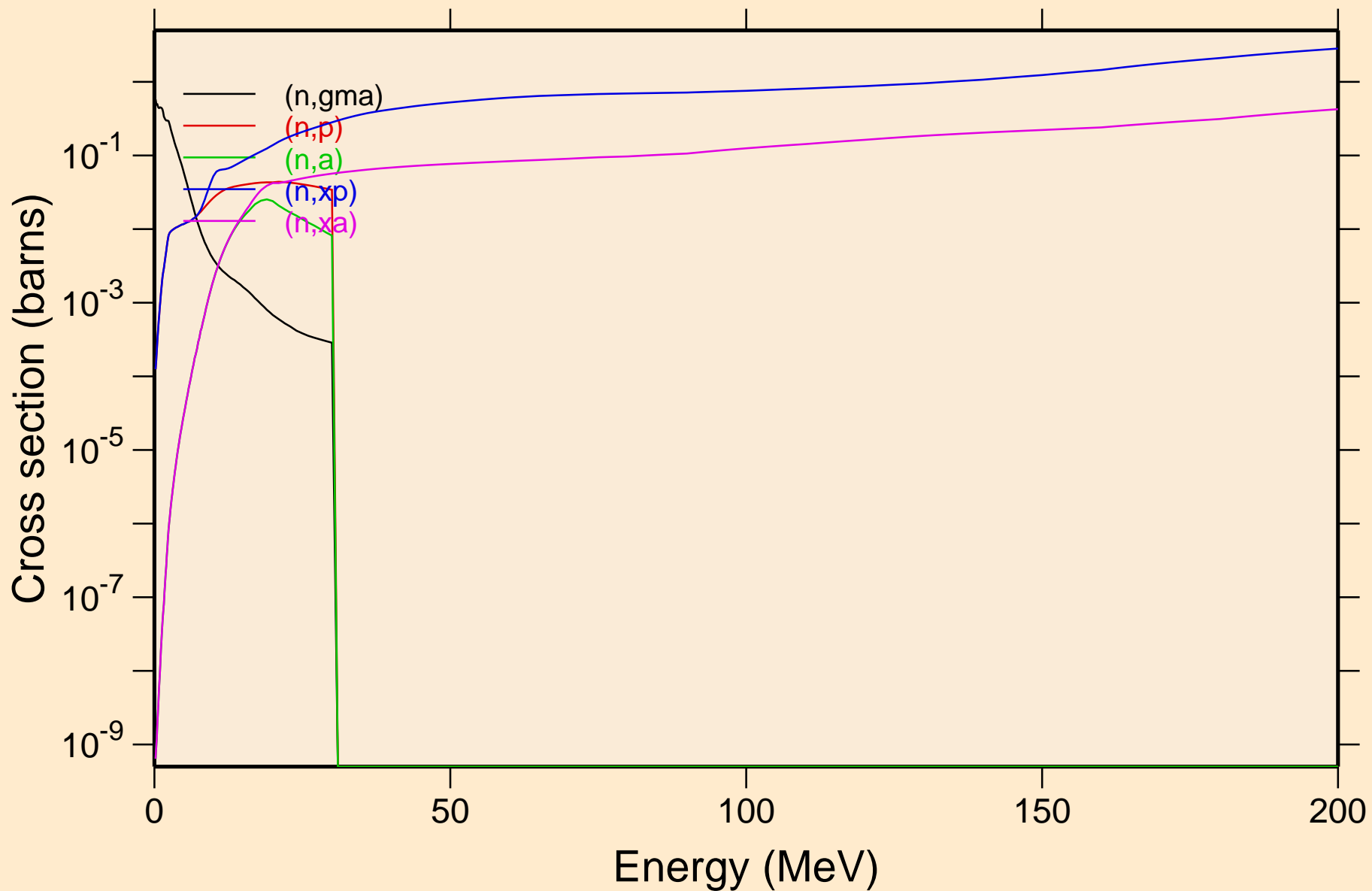
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

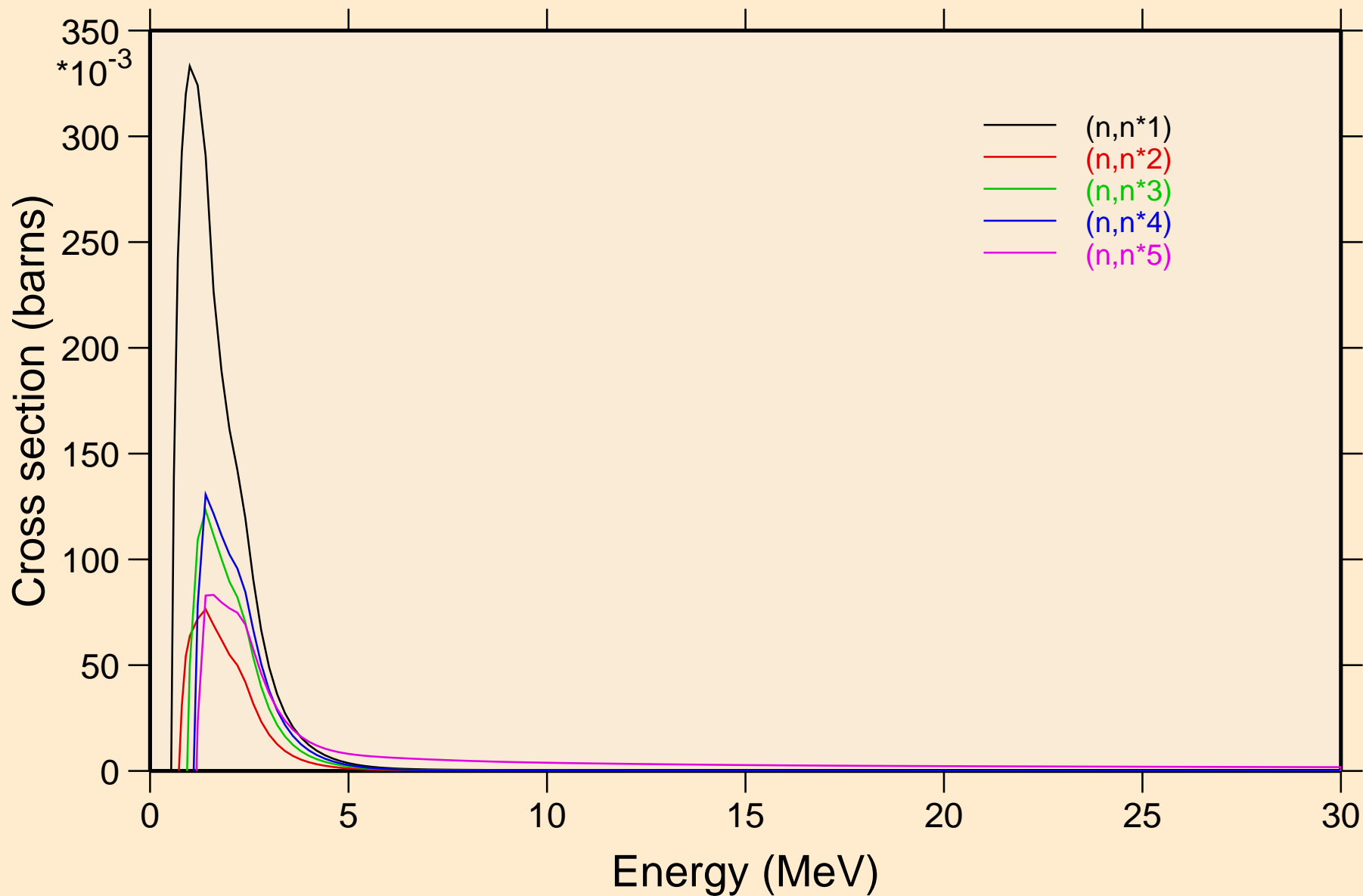


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

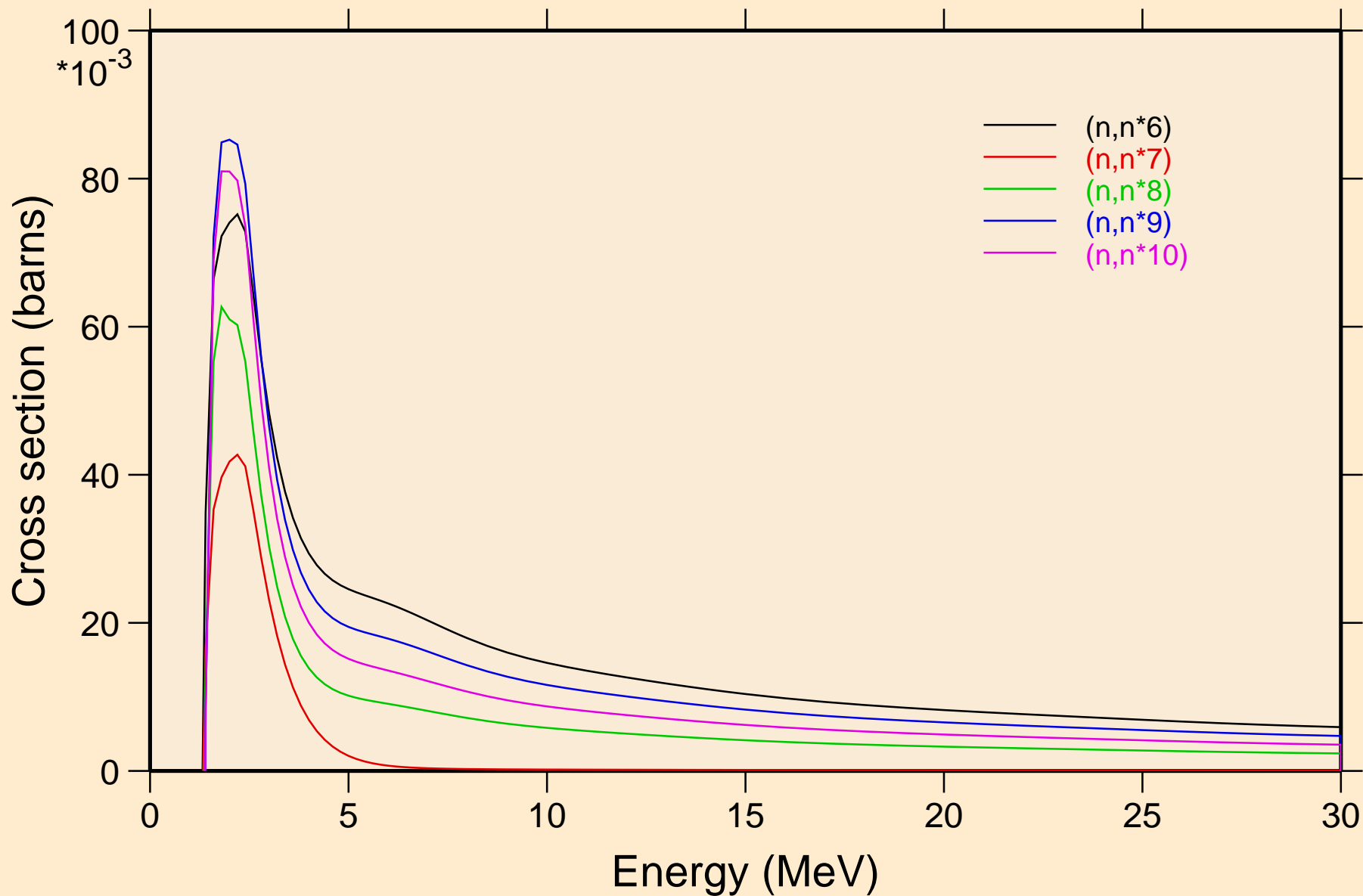




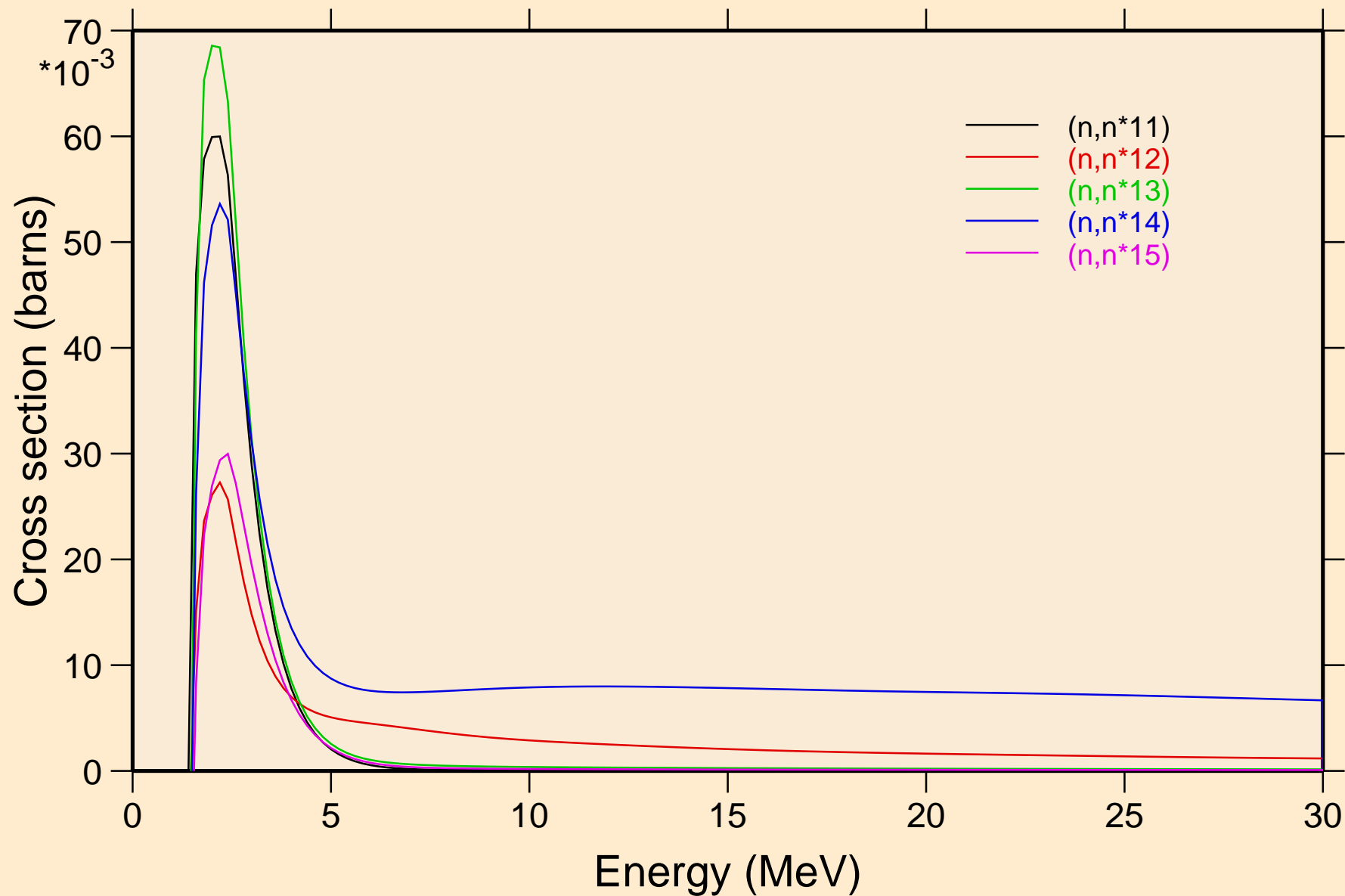
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



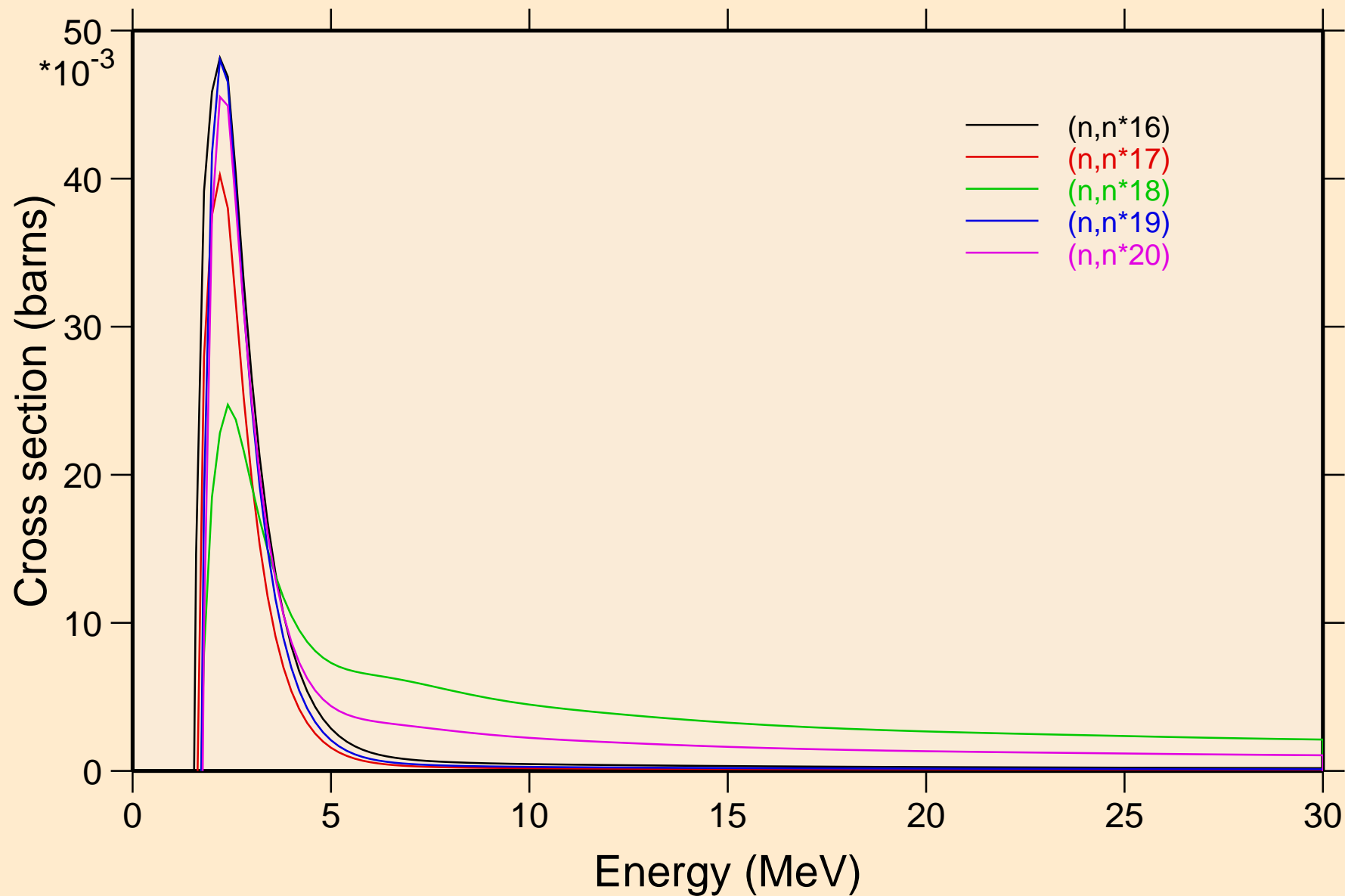
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



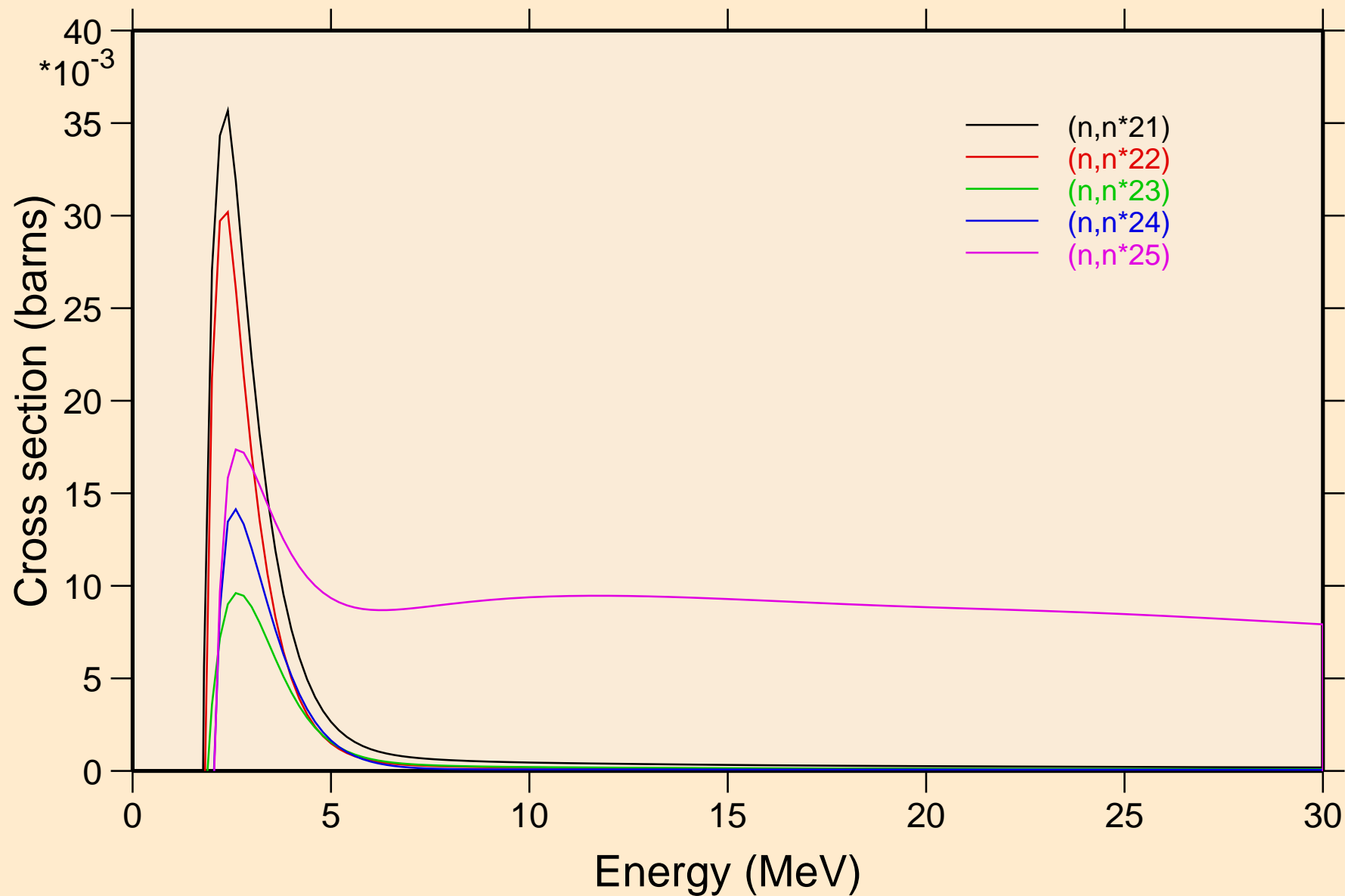
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



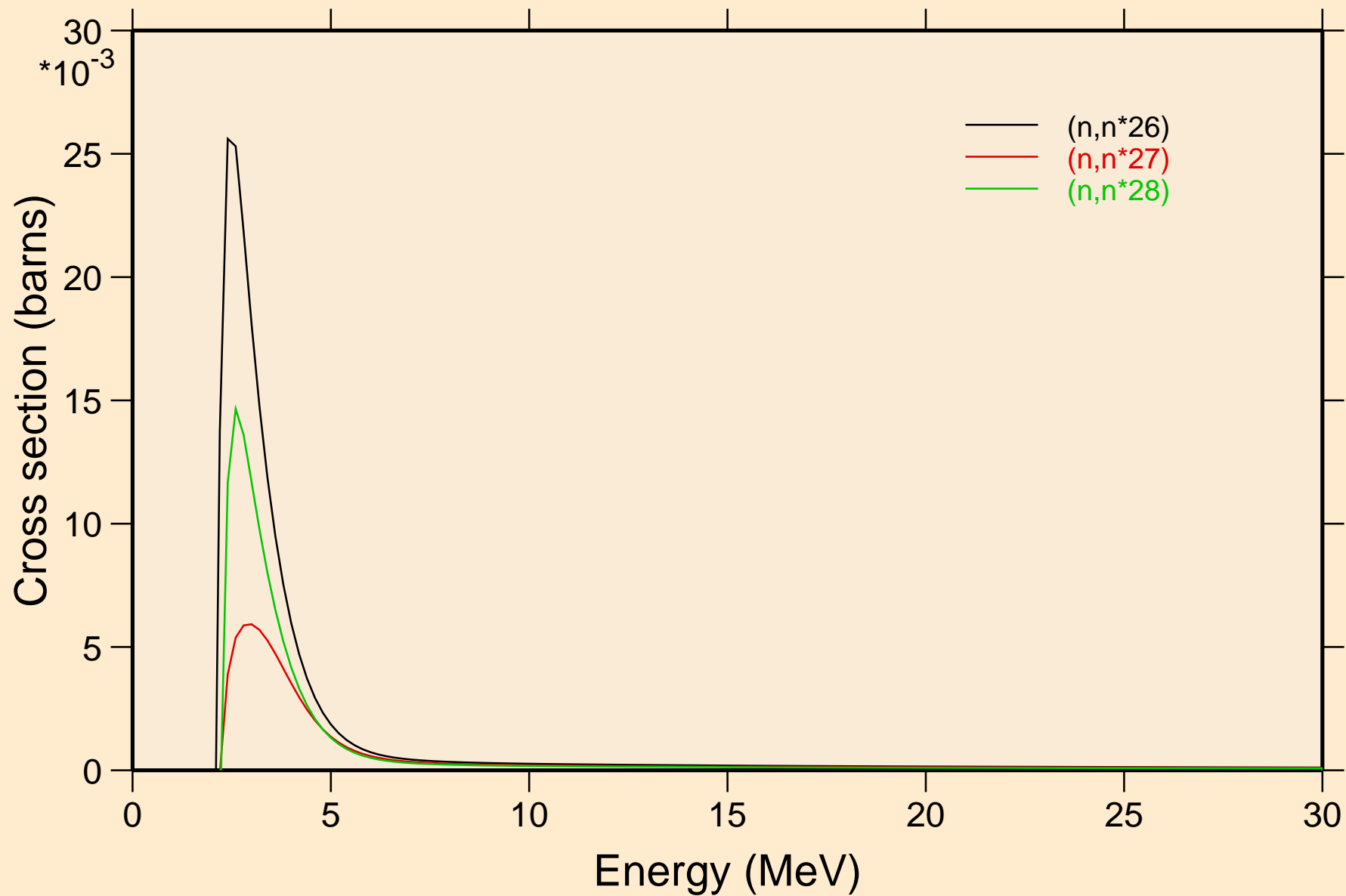
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

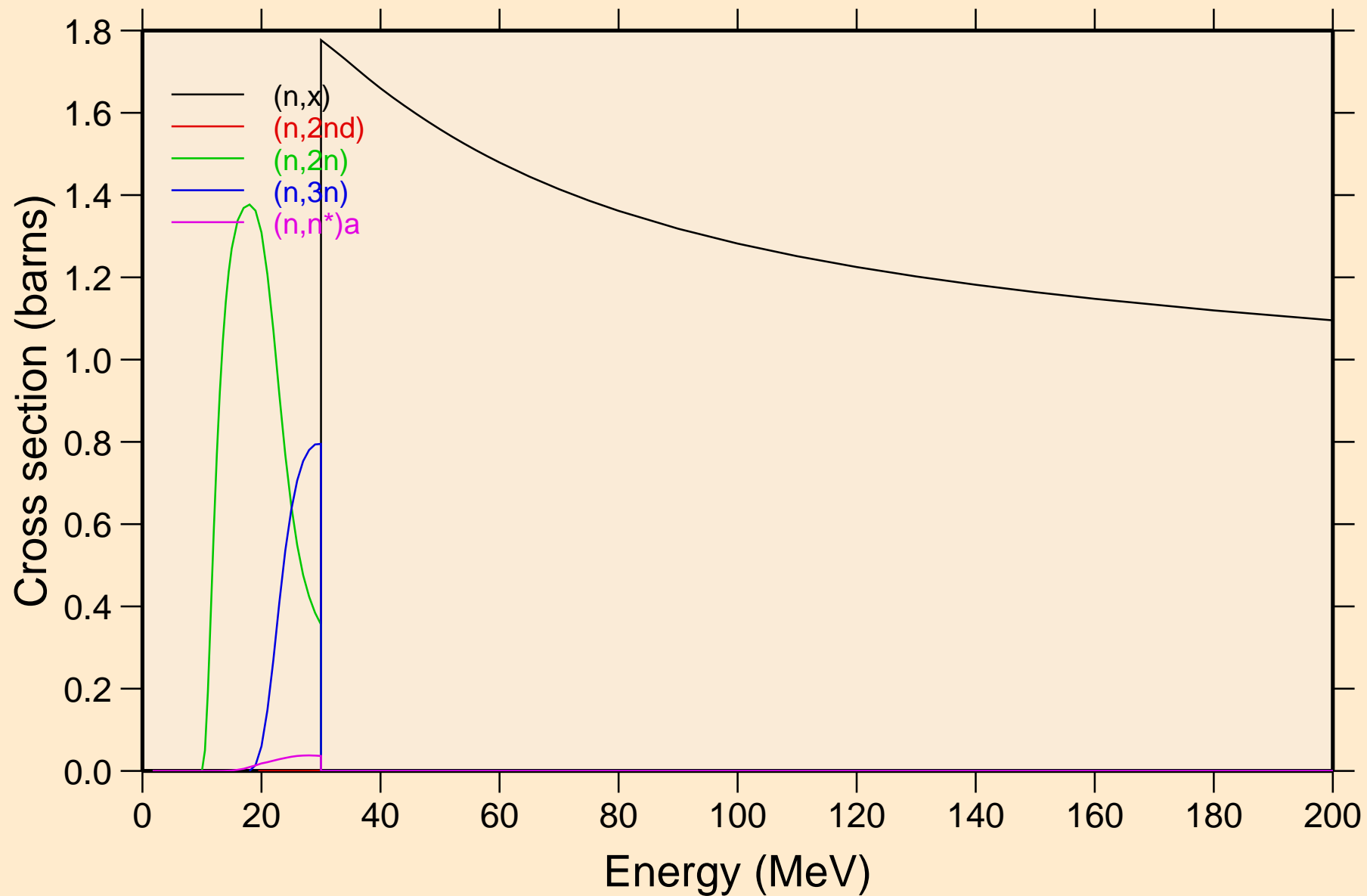


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels

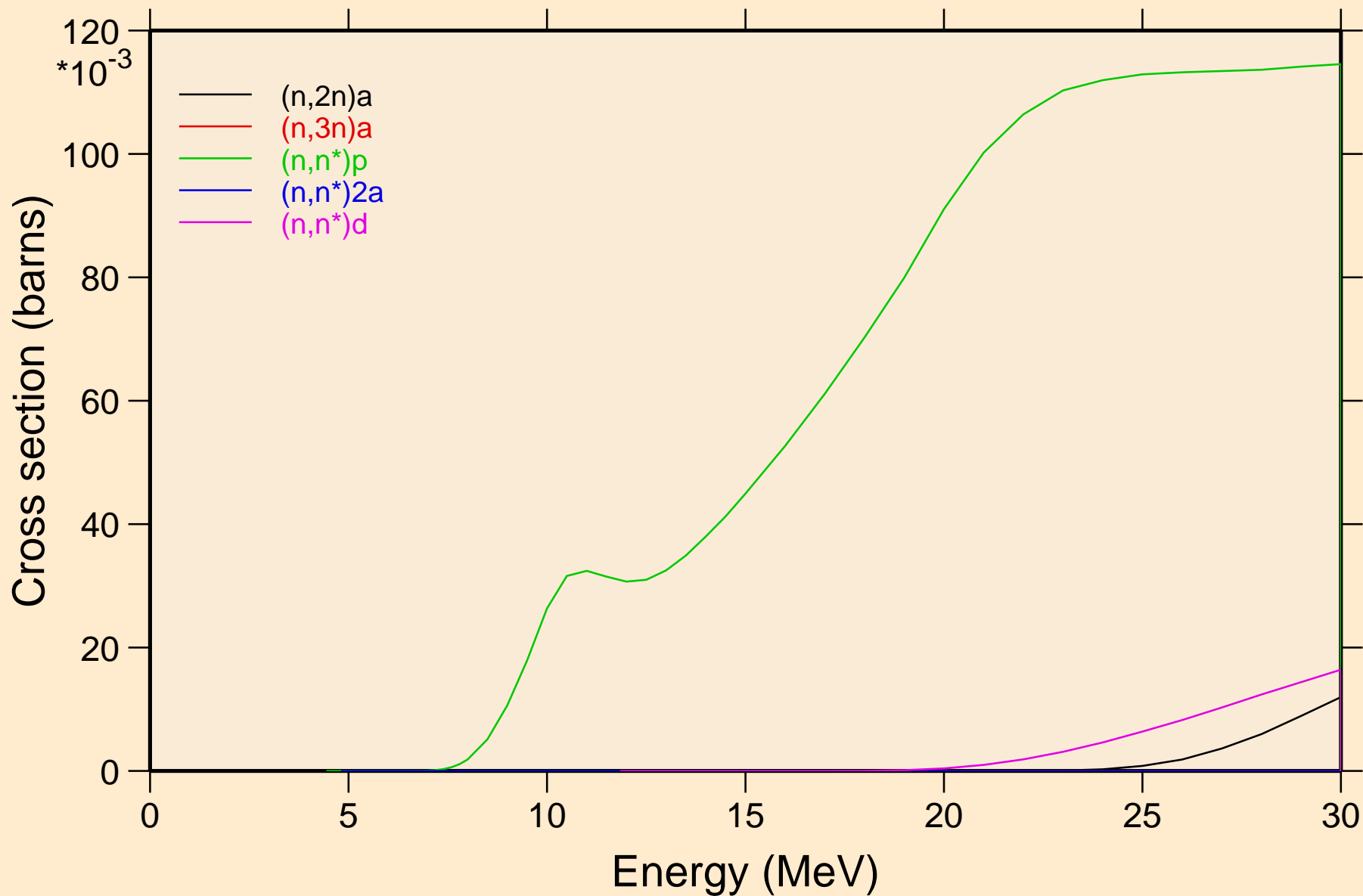


# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



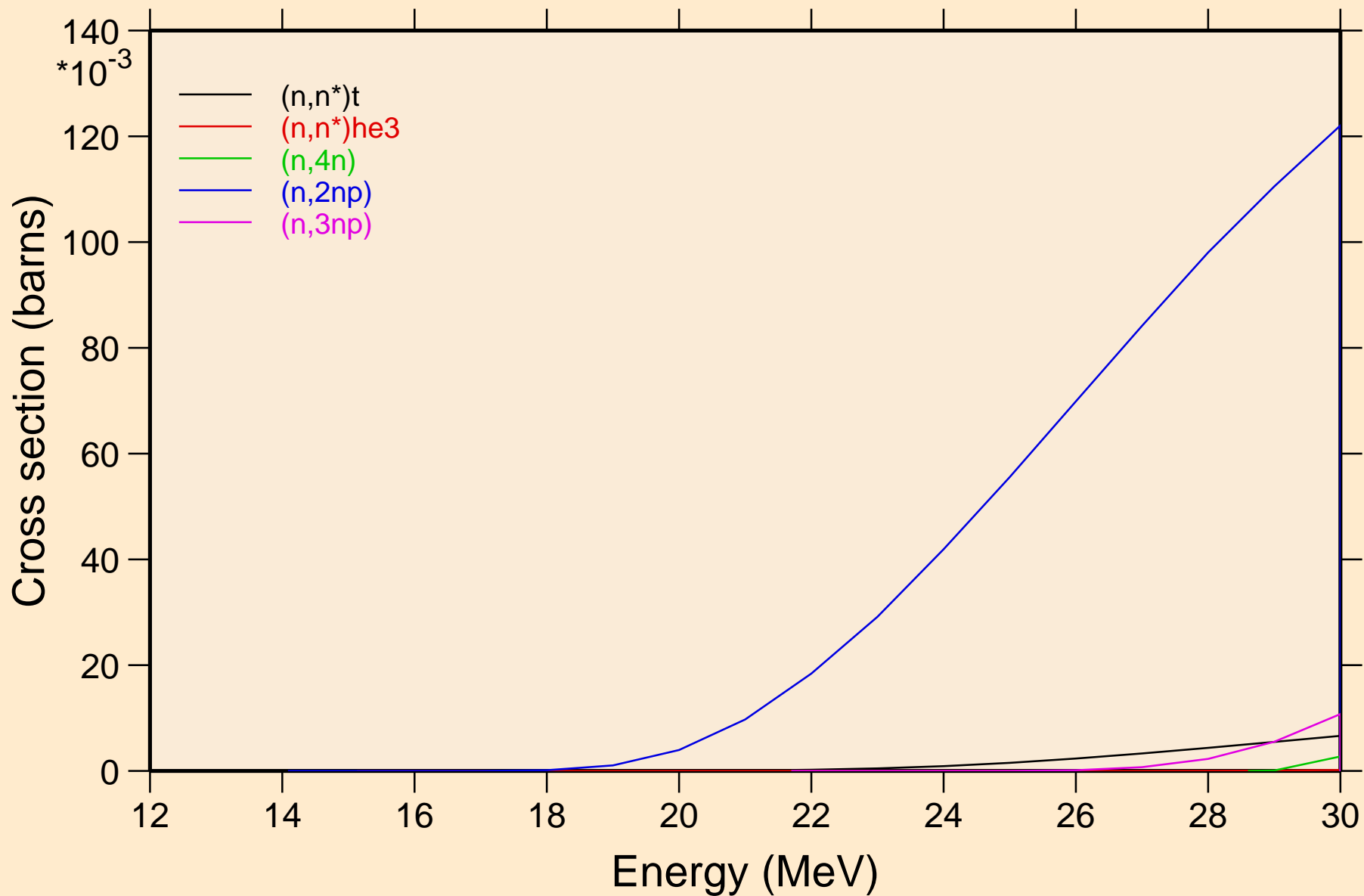
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



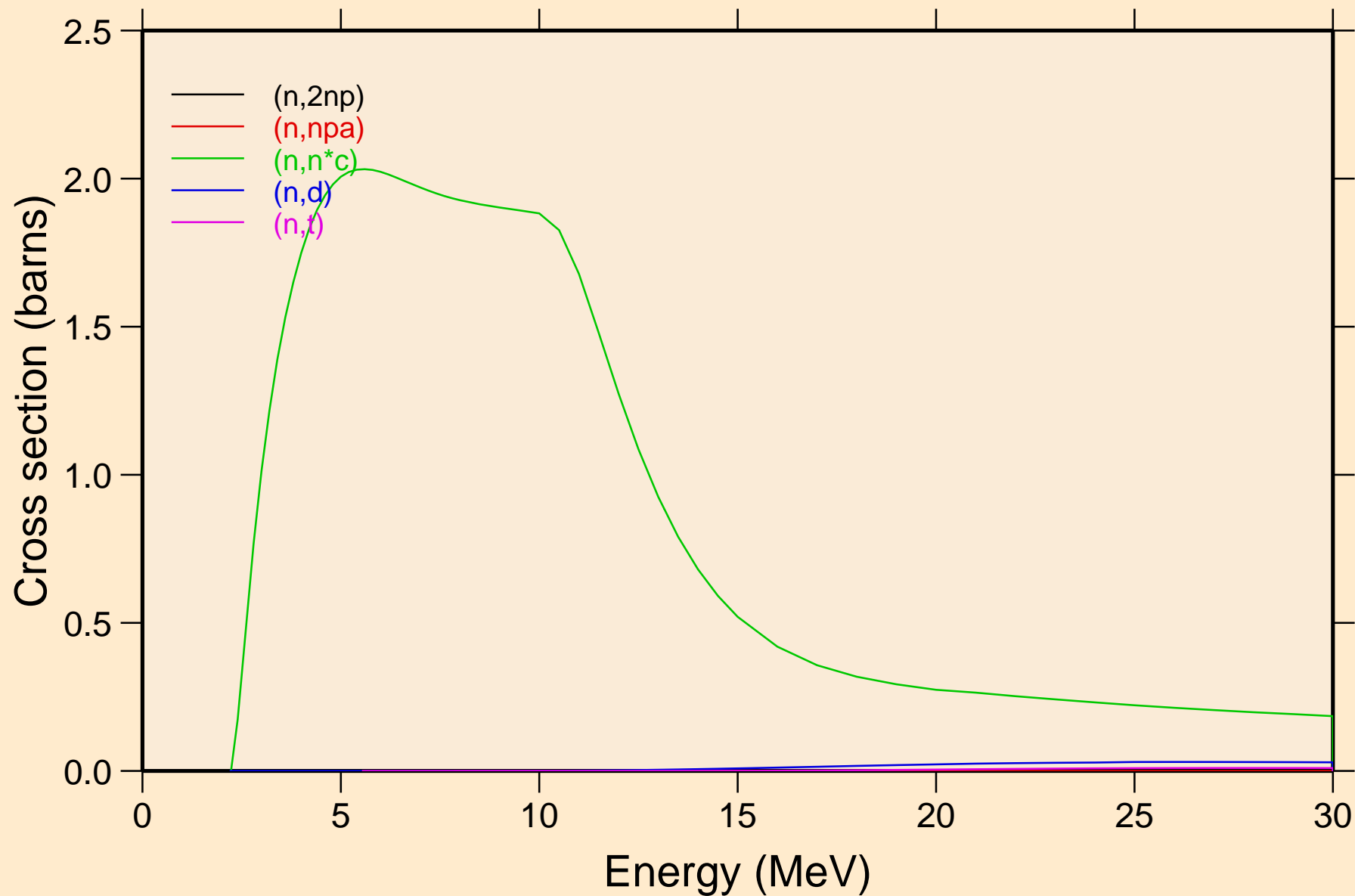


# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

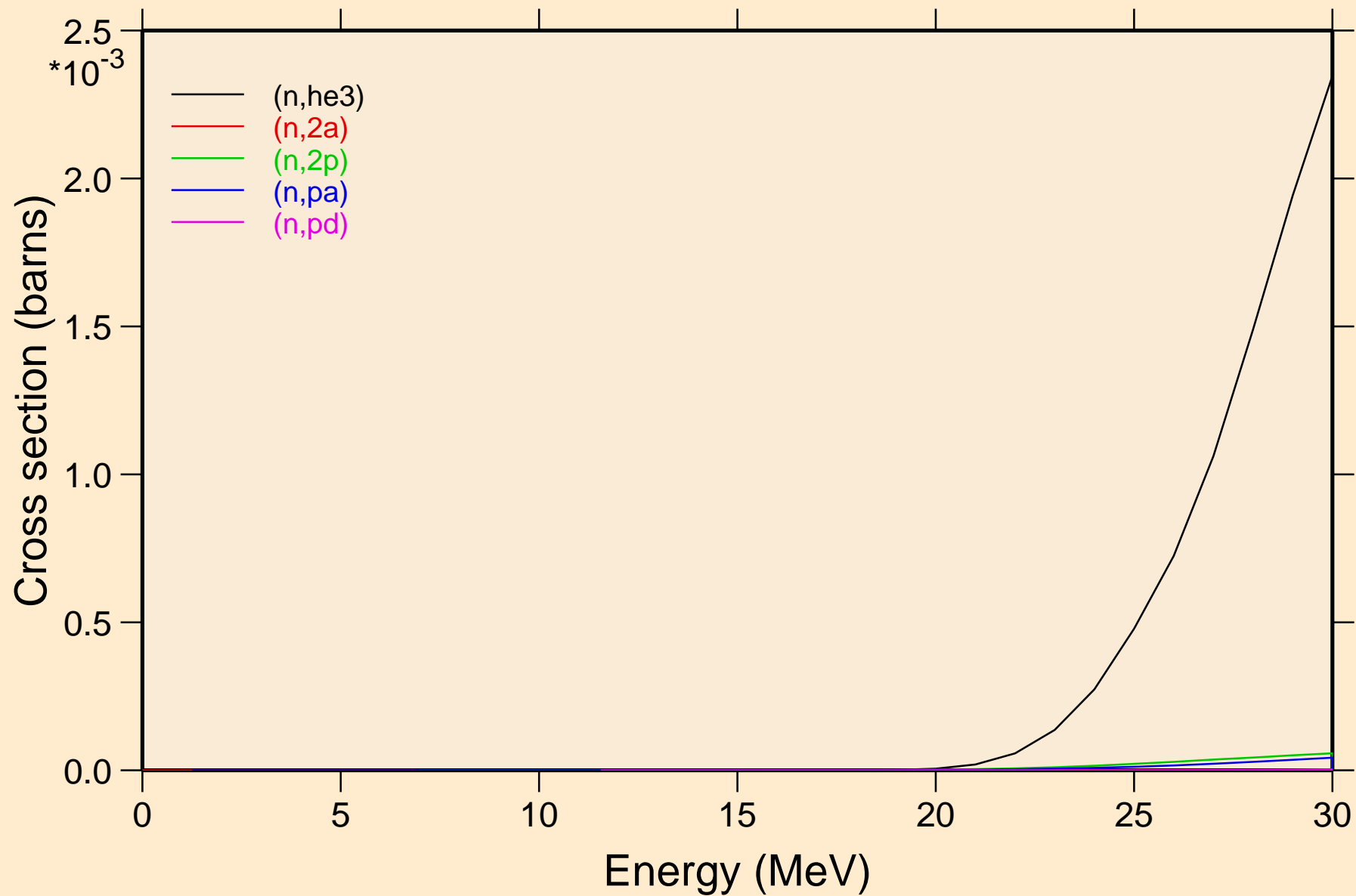


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions

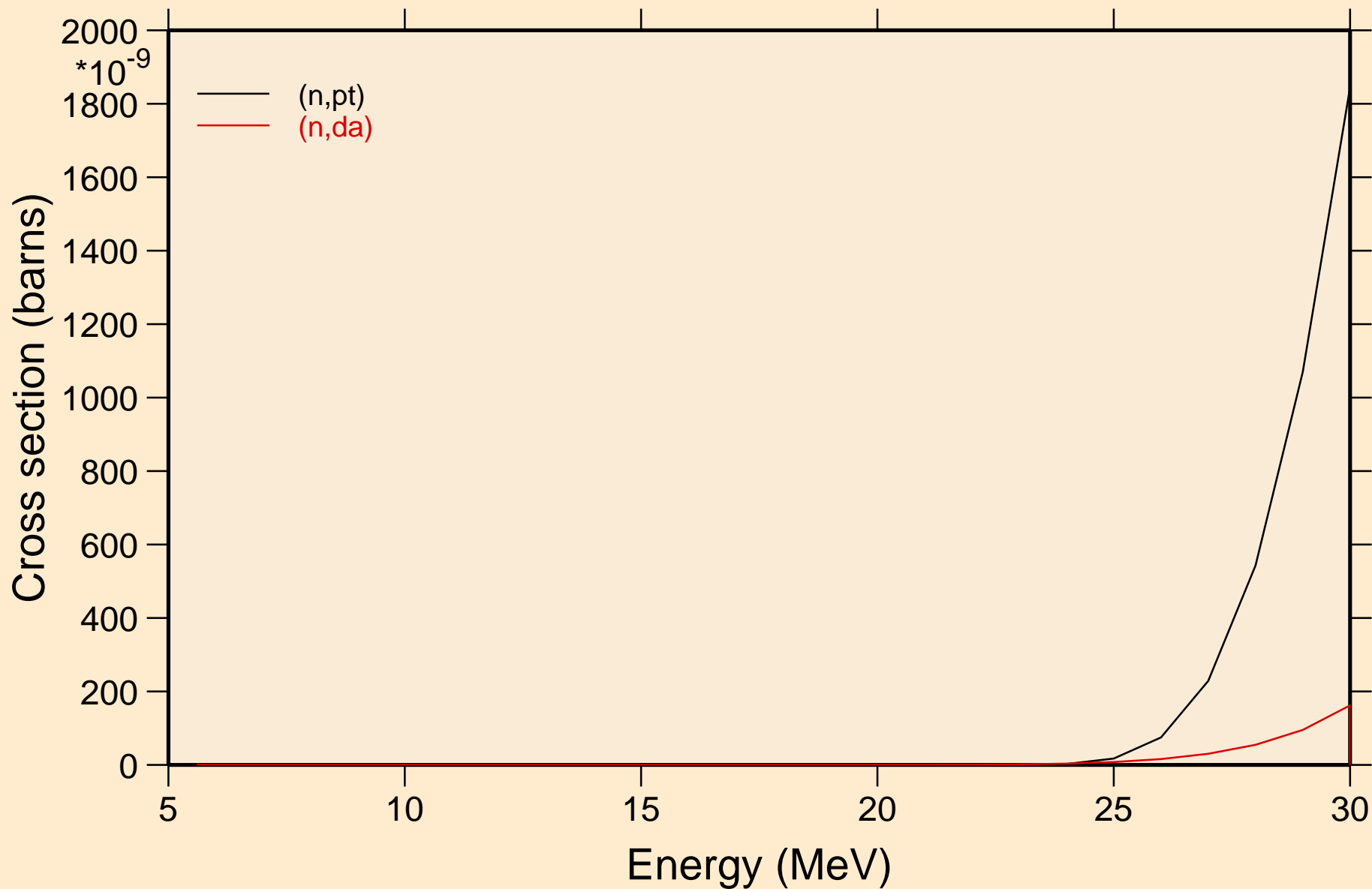


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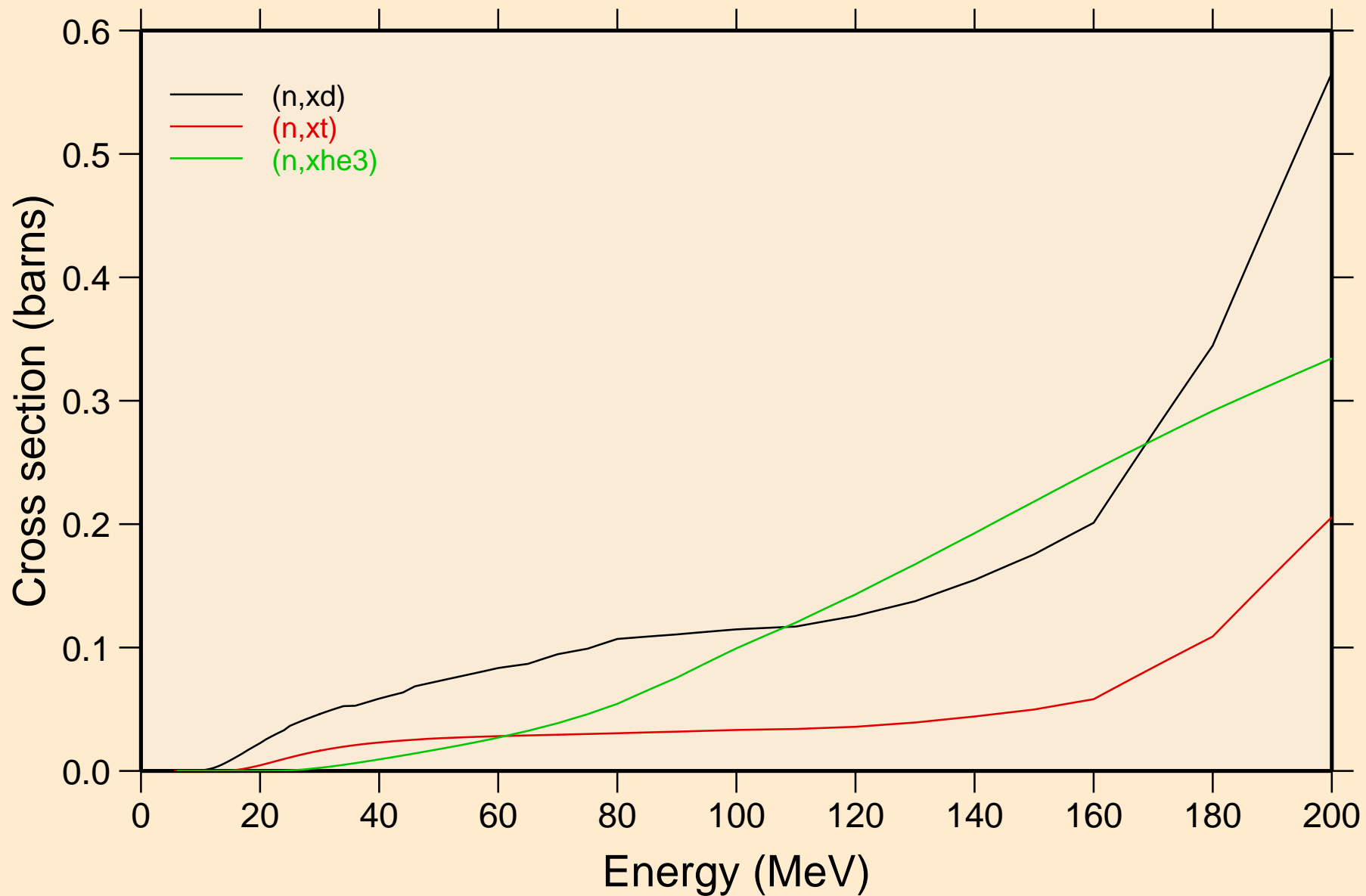
## Threshold reactions



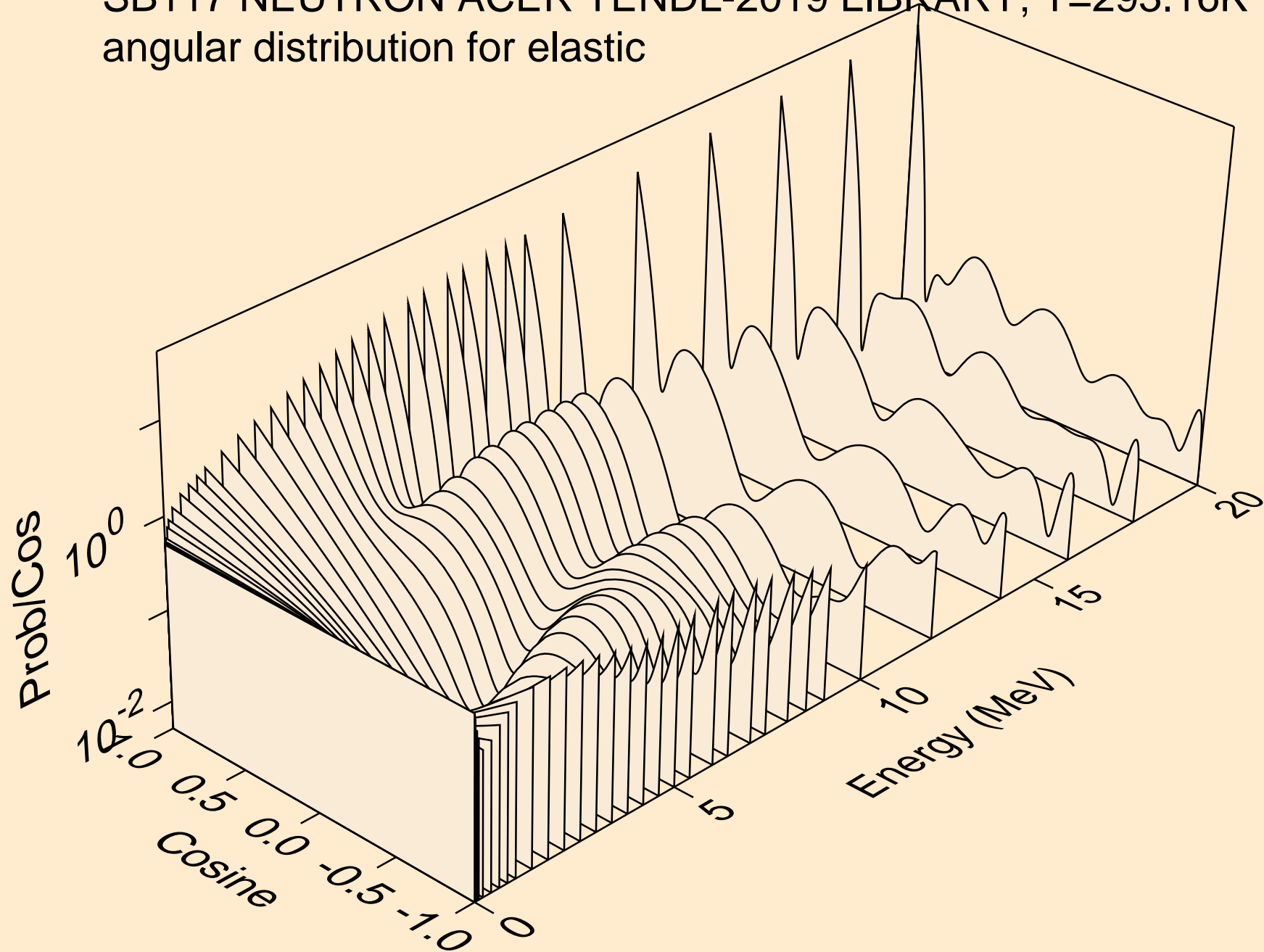
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



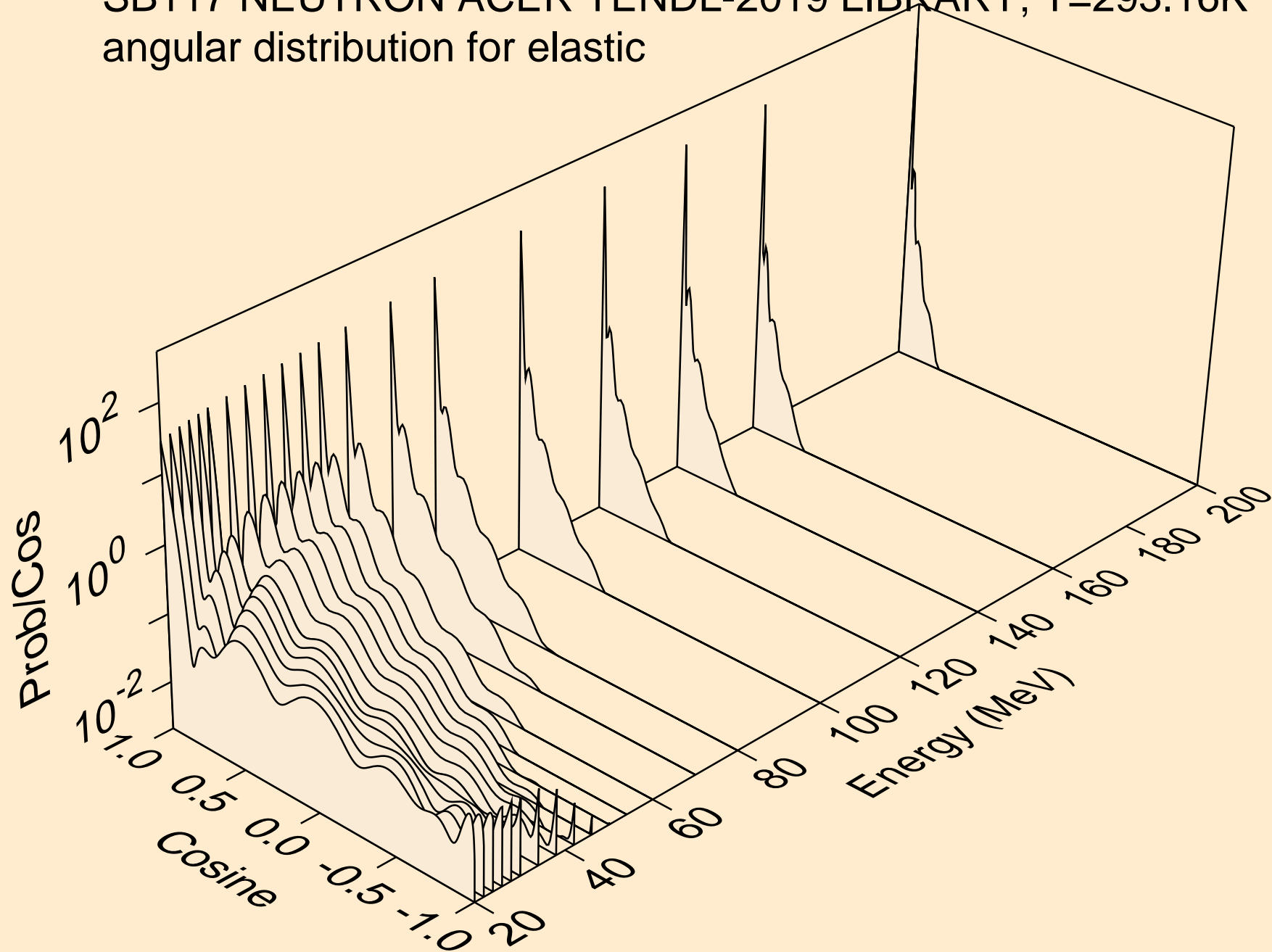
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



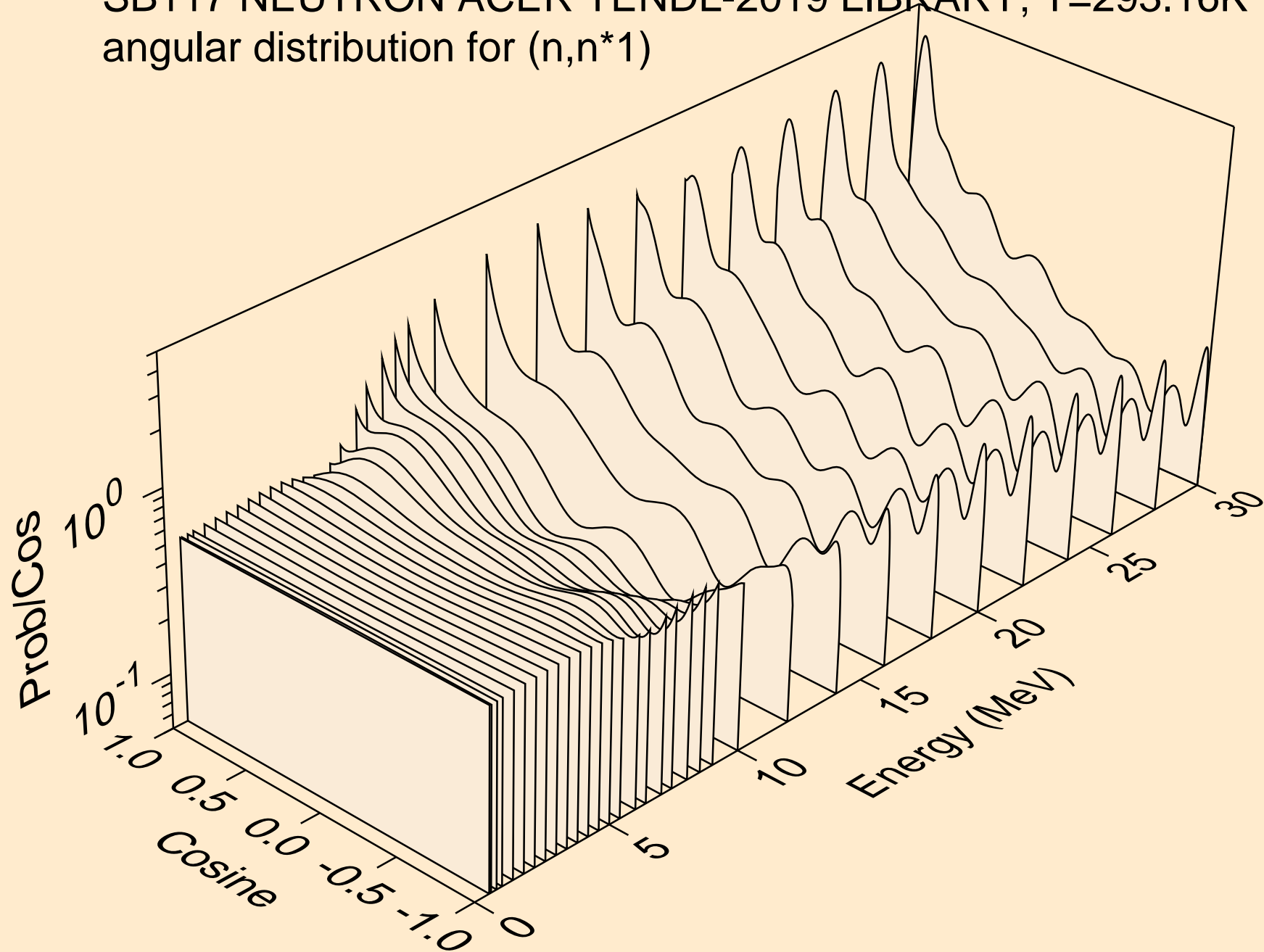
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

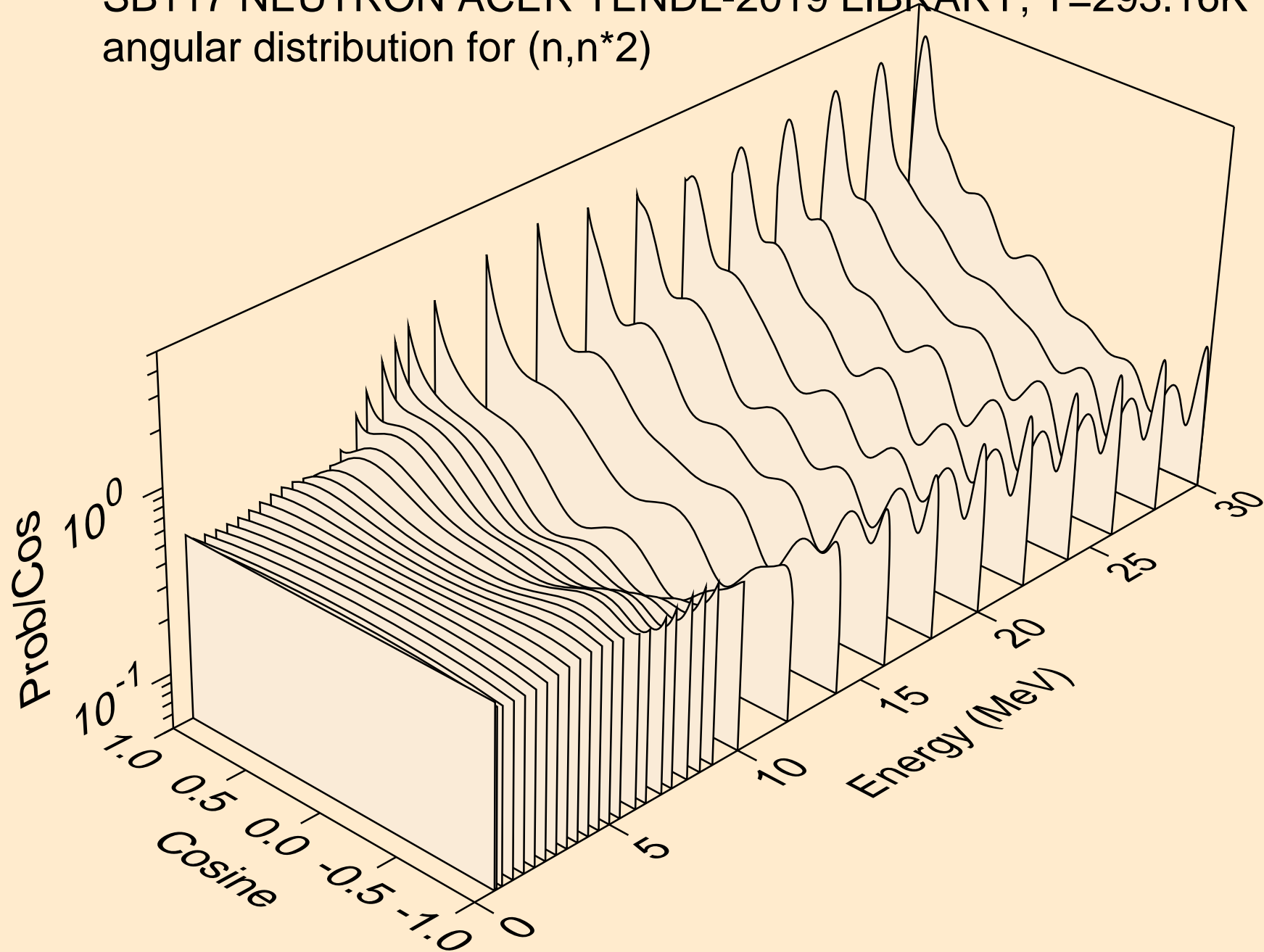


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

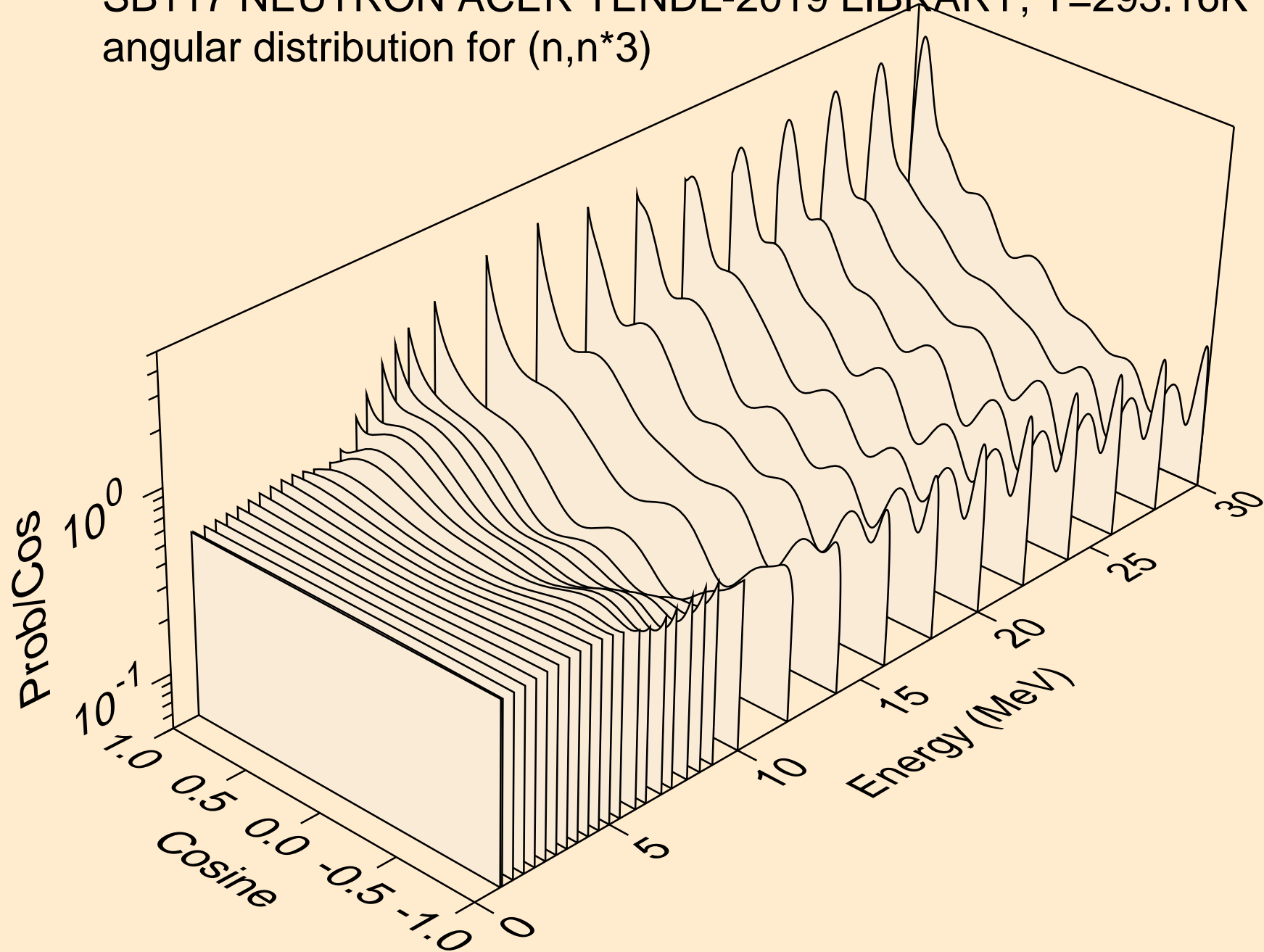




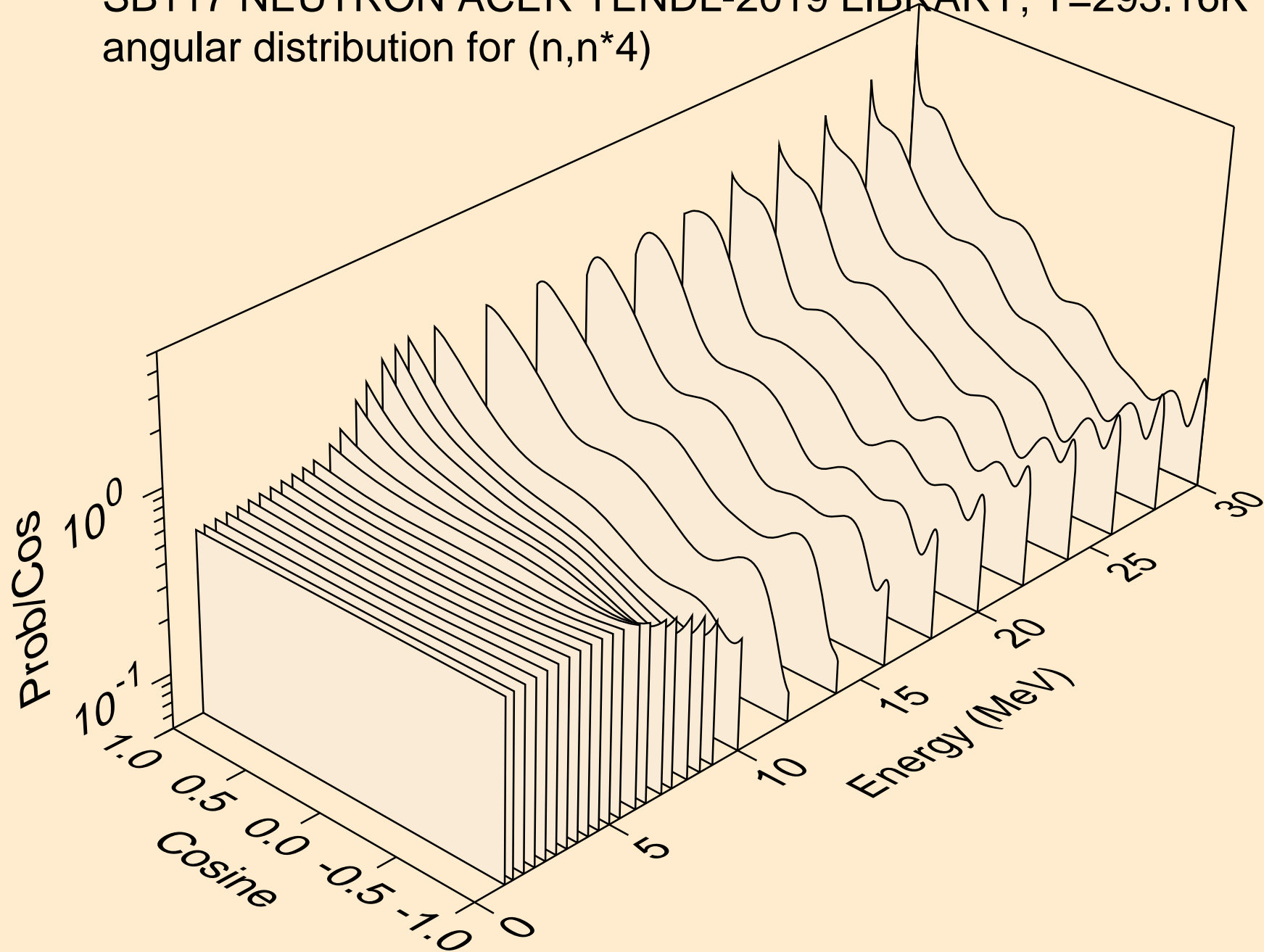
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angular distribution for (n,n\*2)



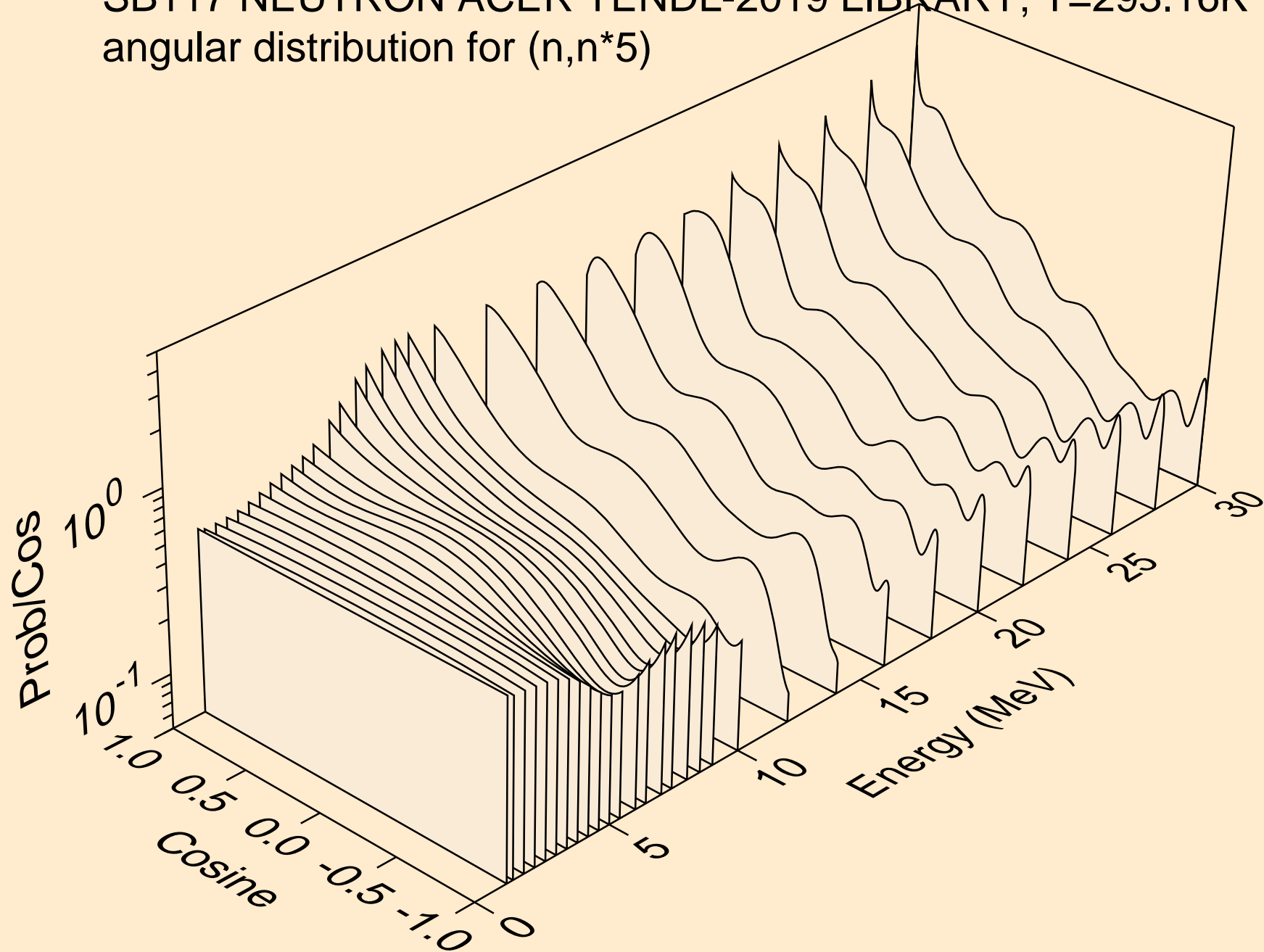
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angular distribution for (n,n\*3)



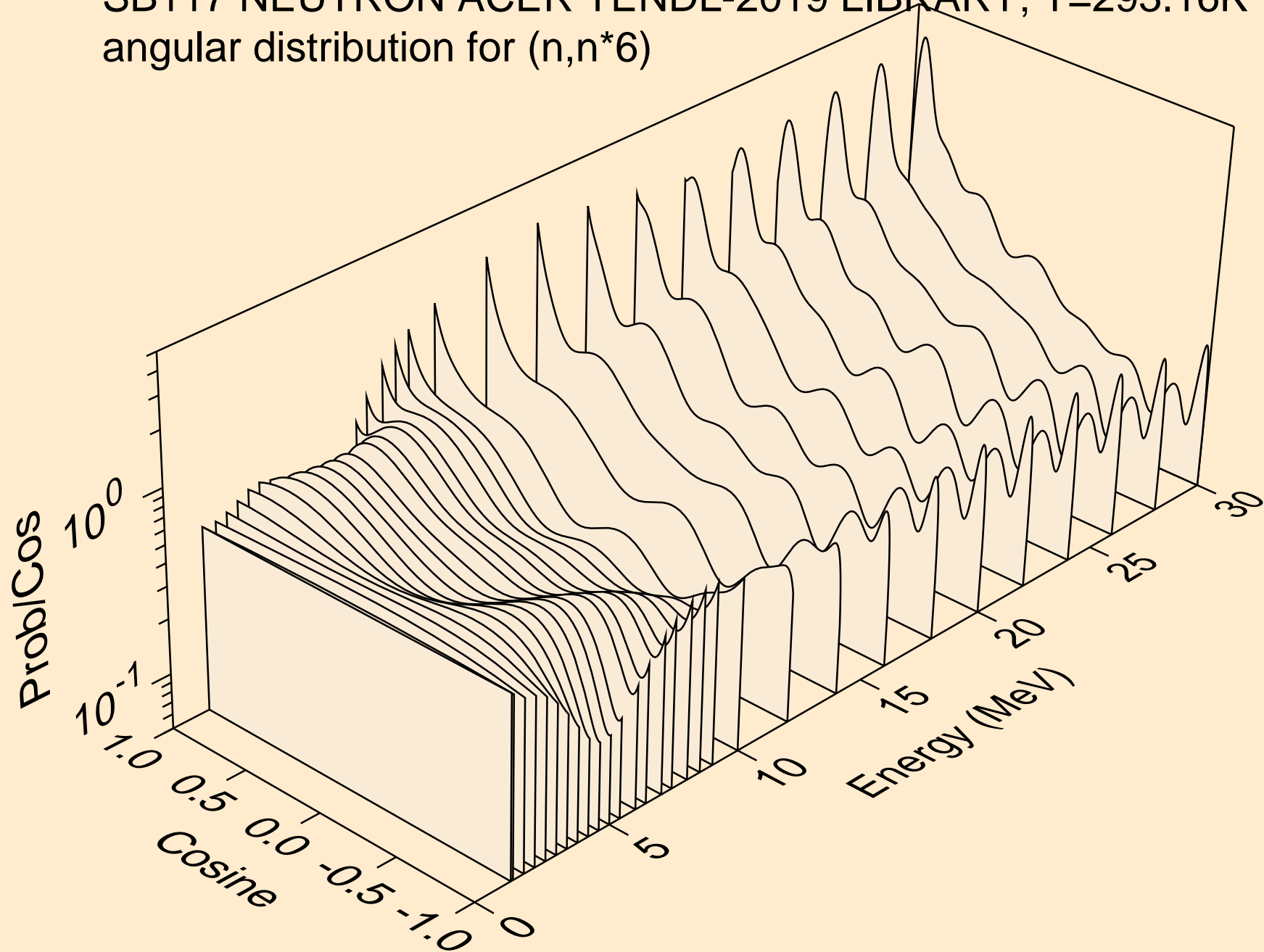
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angular distribution for (n,n\*4)



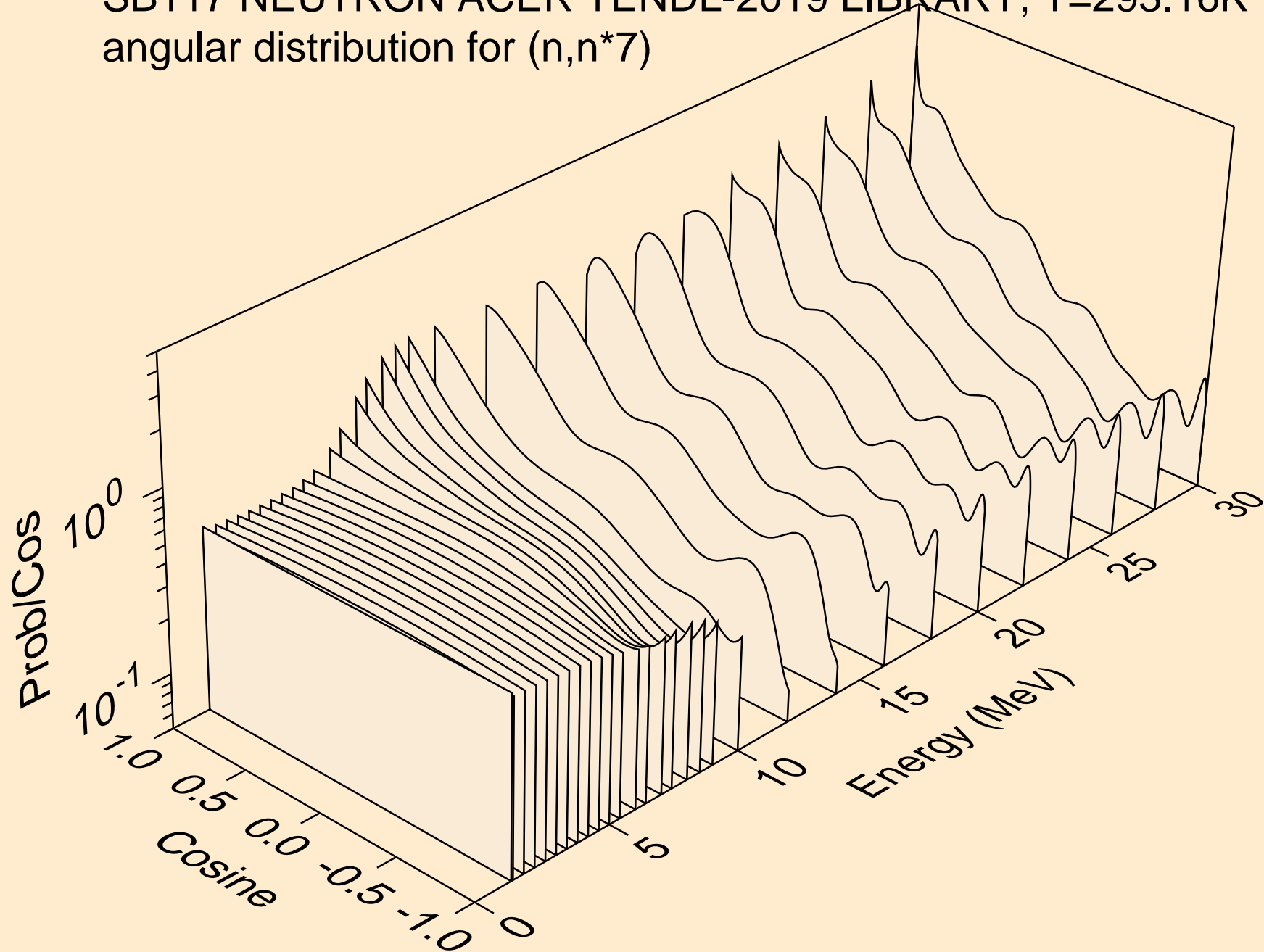
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angular distribution for (n,n\*5)



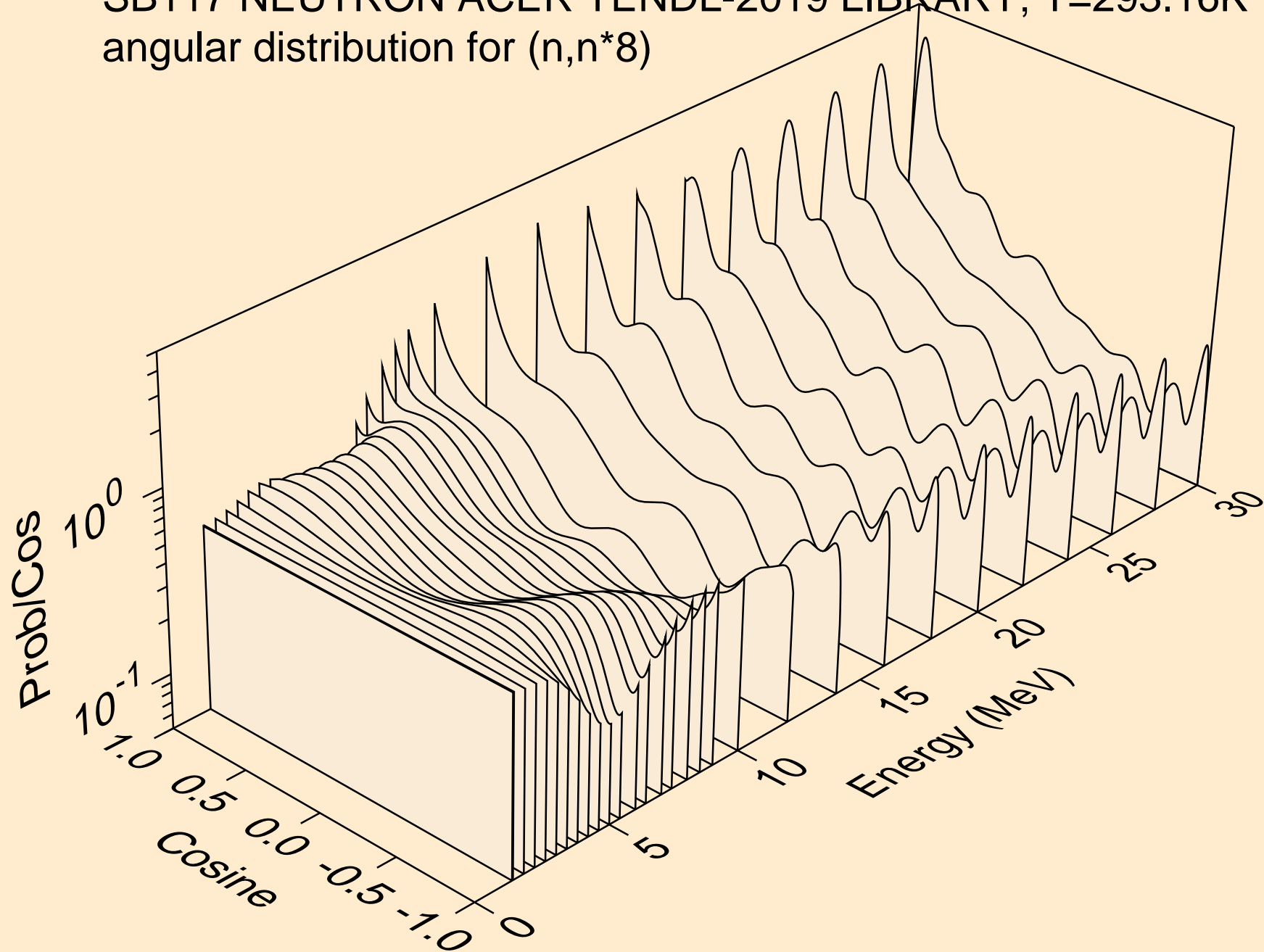
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angular distribution for (n,n\*6)



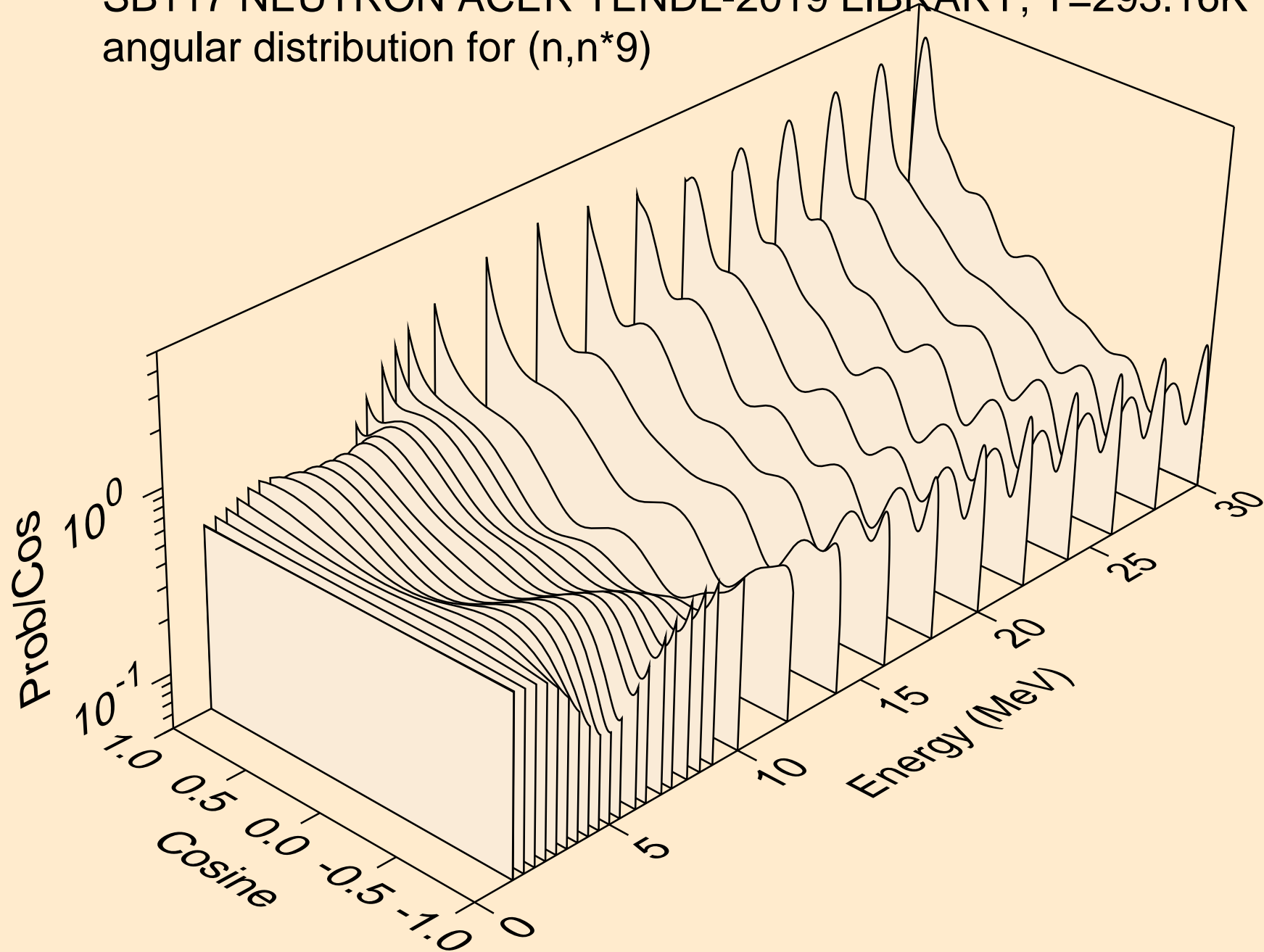
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angular distribution for (n,n\*7)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*8)

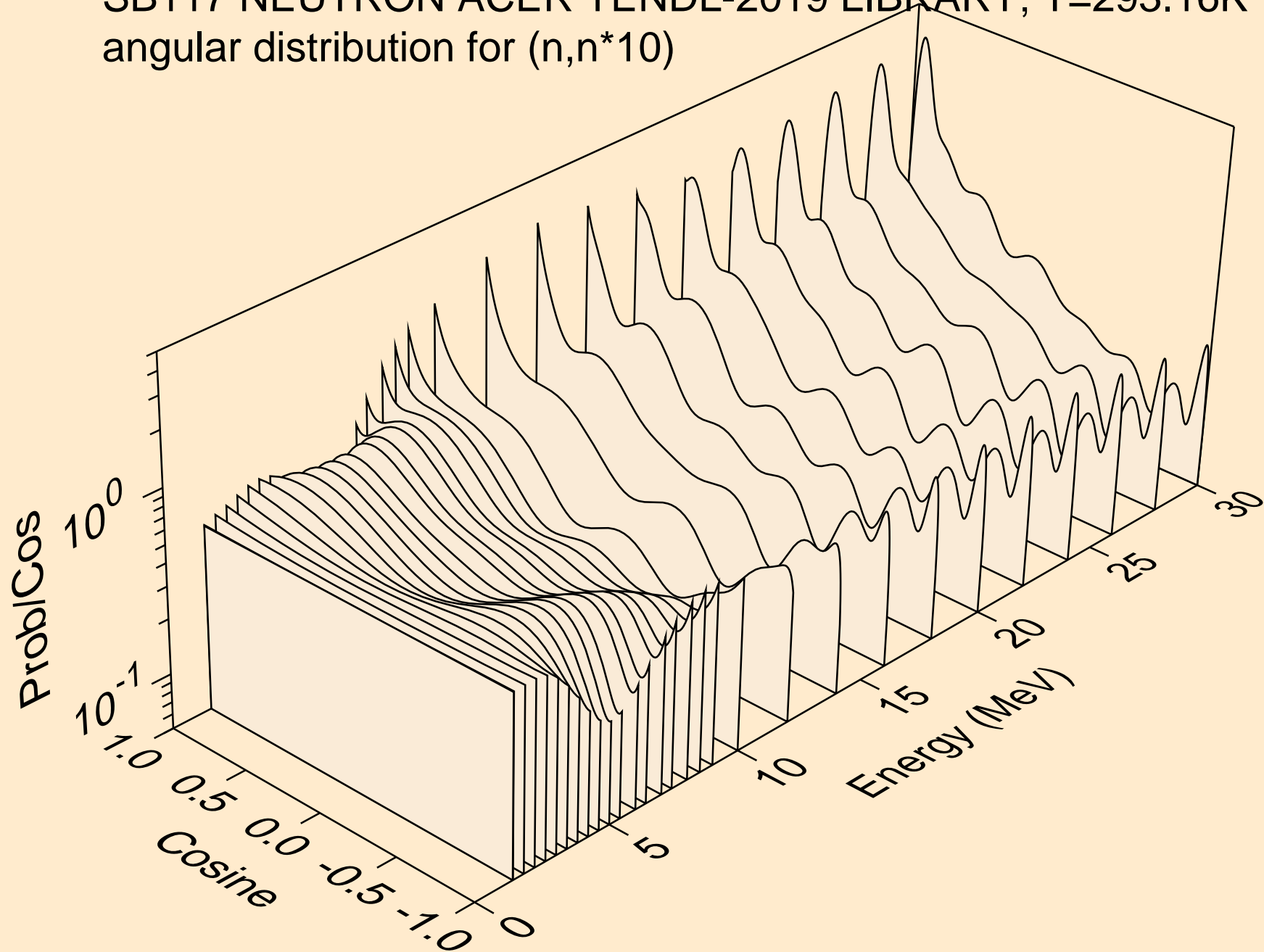


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angular distribution for (n,n\*9)

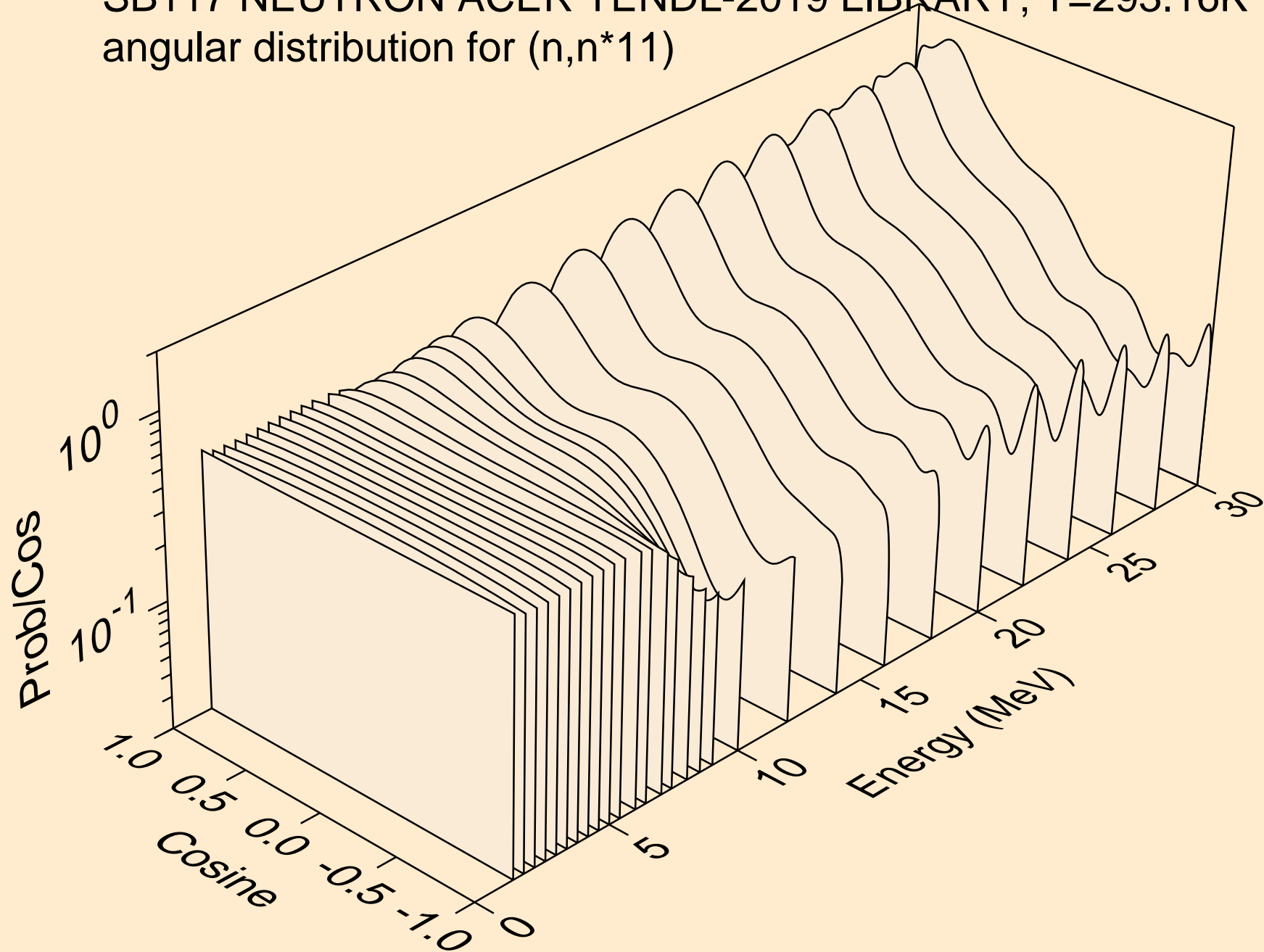




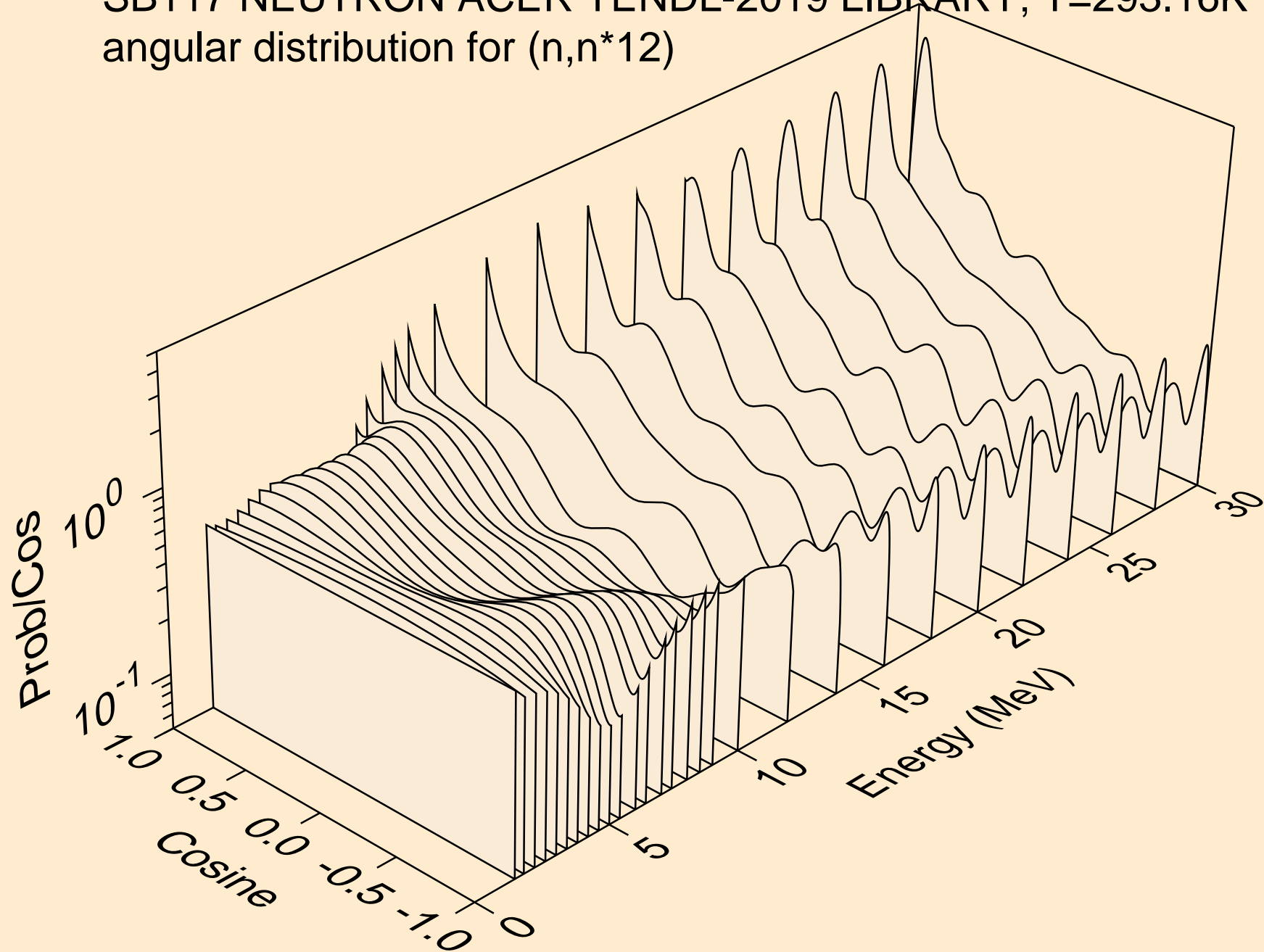
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angular distribution for (n,n\*10)



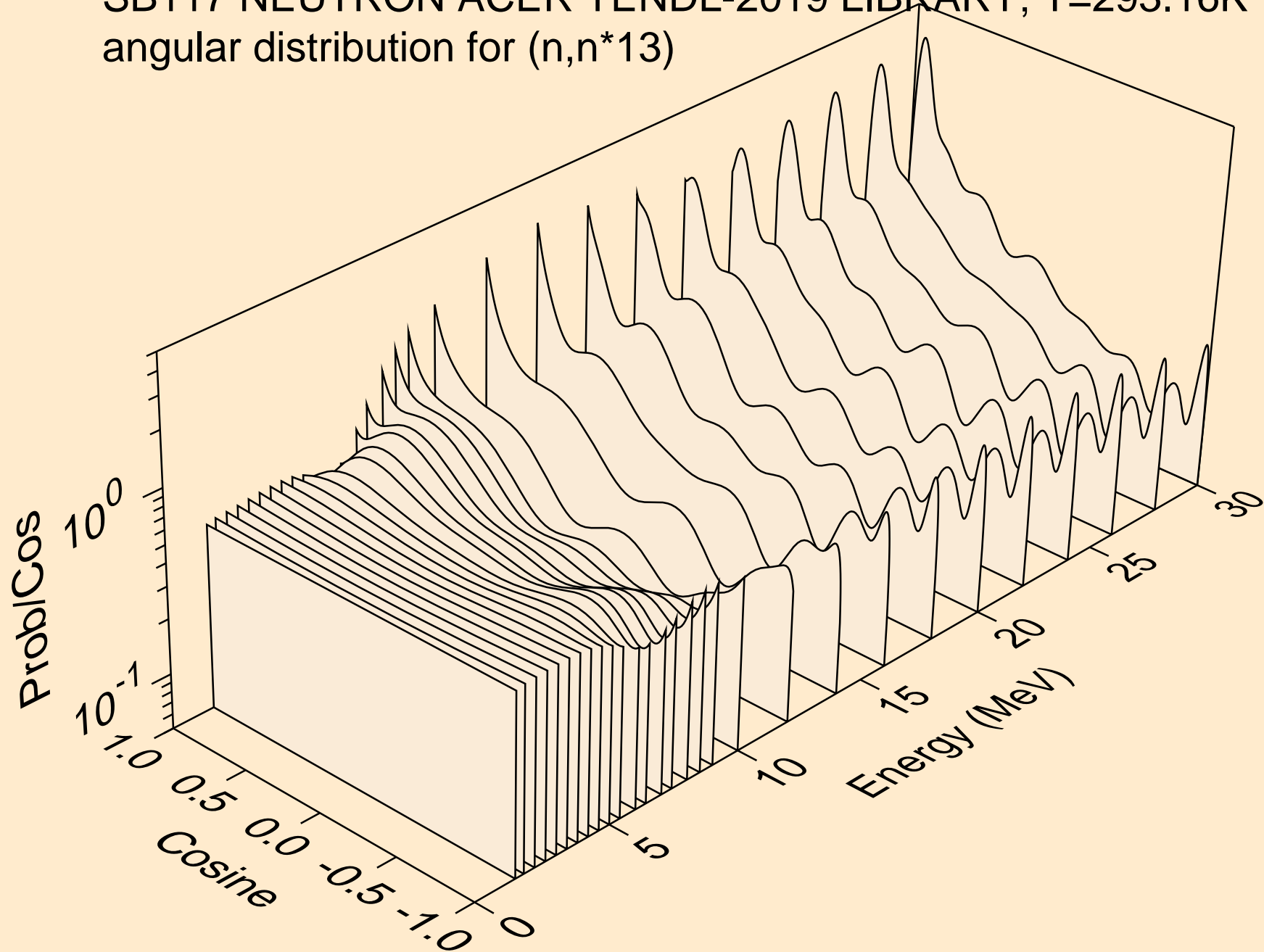
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angular distribution for (n,n\*11)



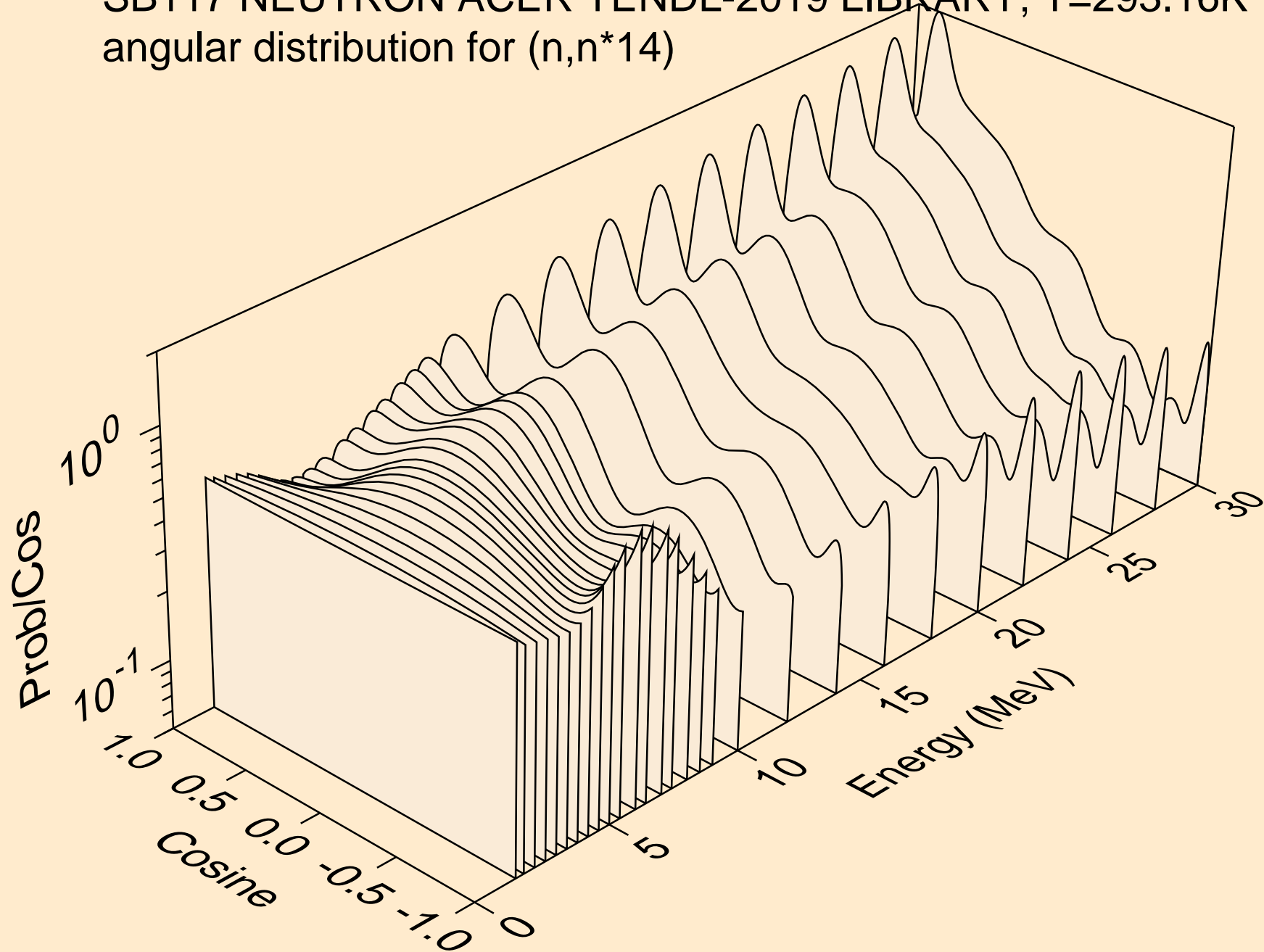
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angular distribution for (n,n\*12)



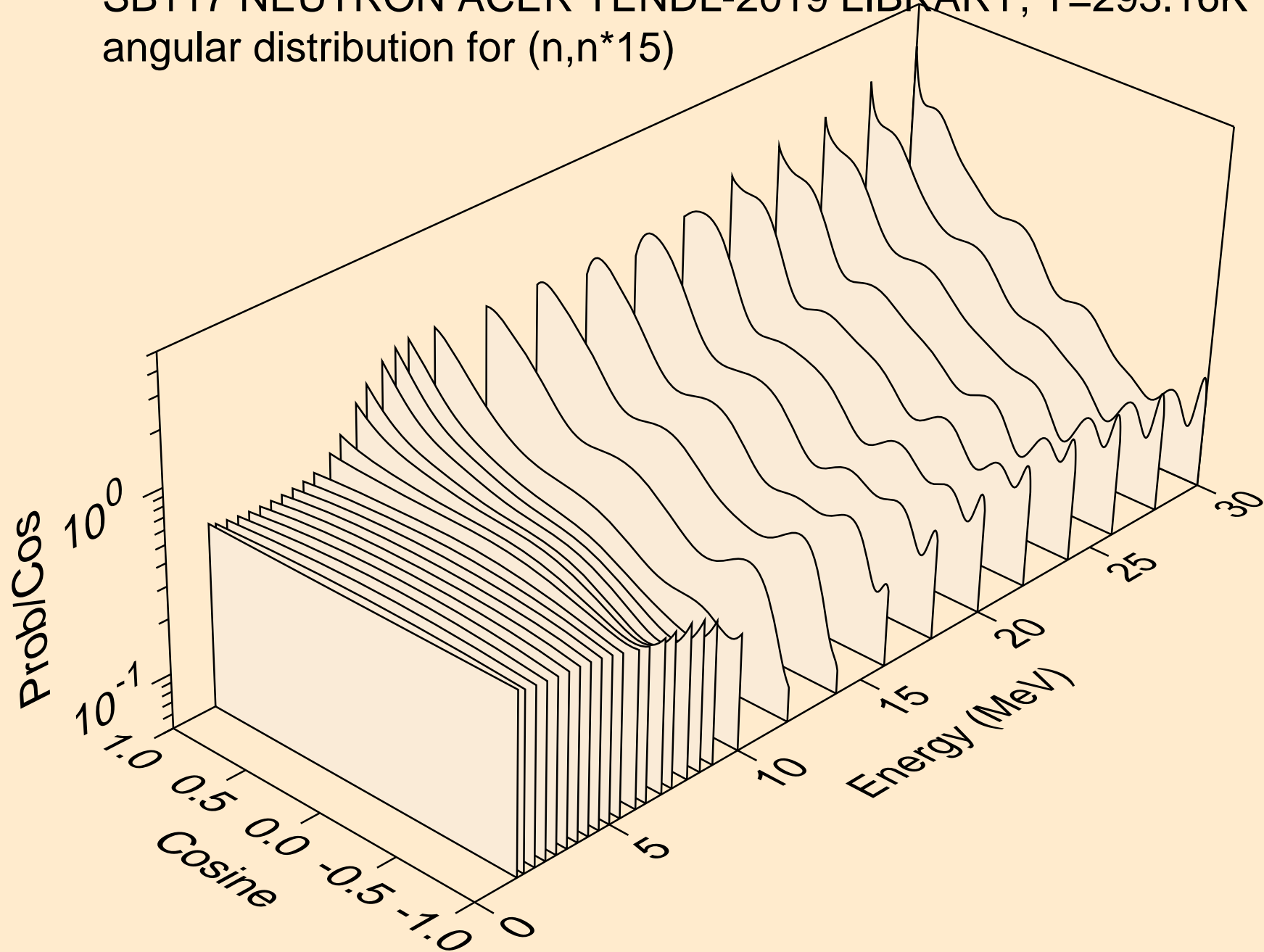
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angular distribution for (n,n\*13)



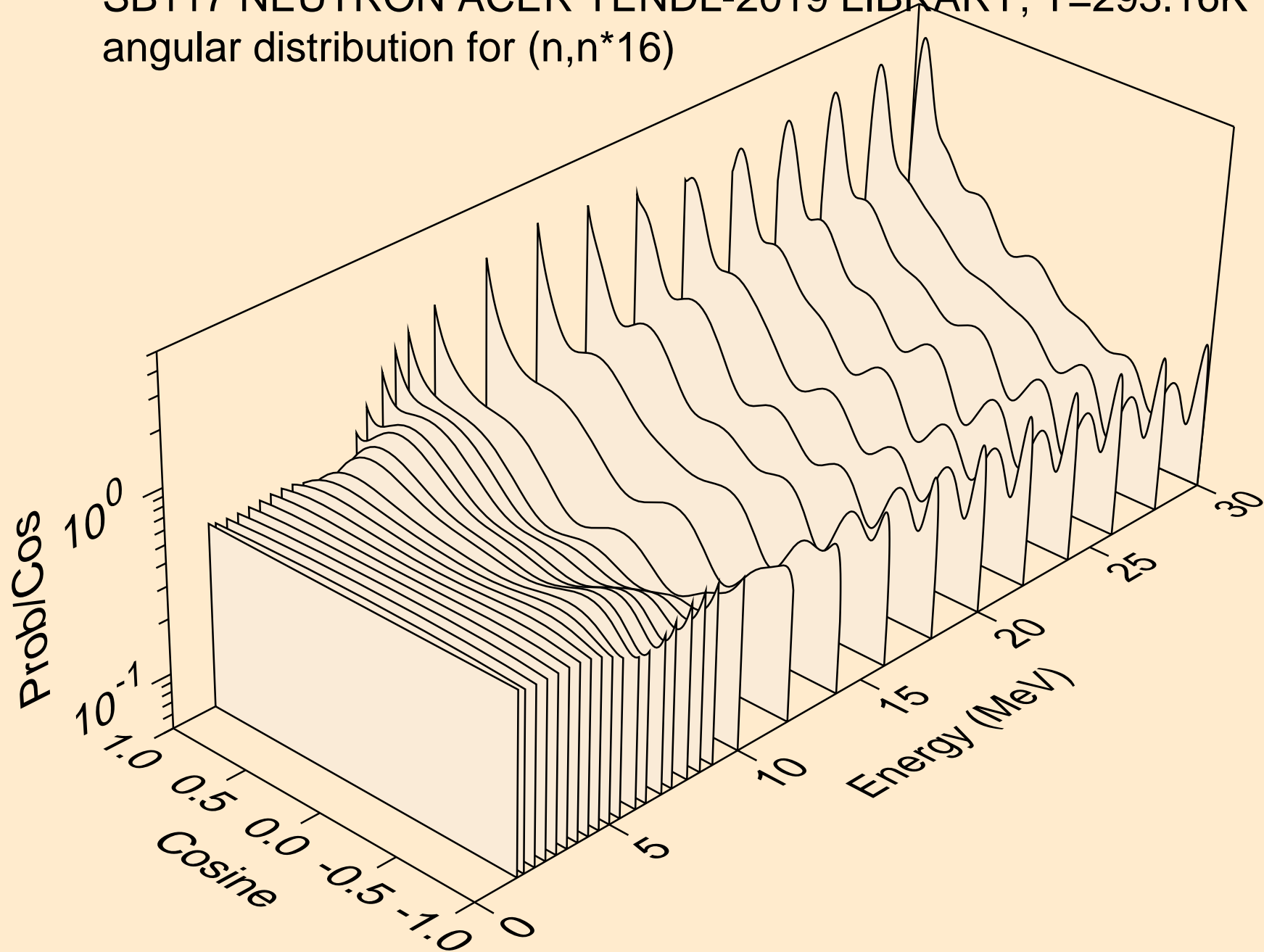
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angular distribution for (n,n\*14)



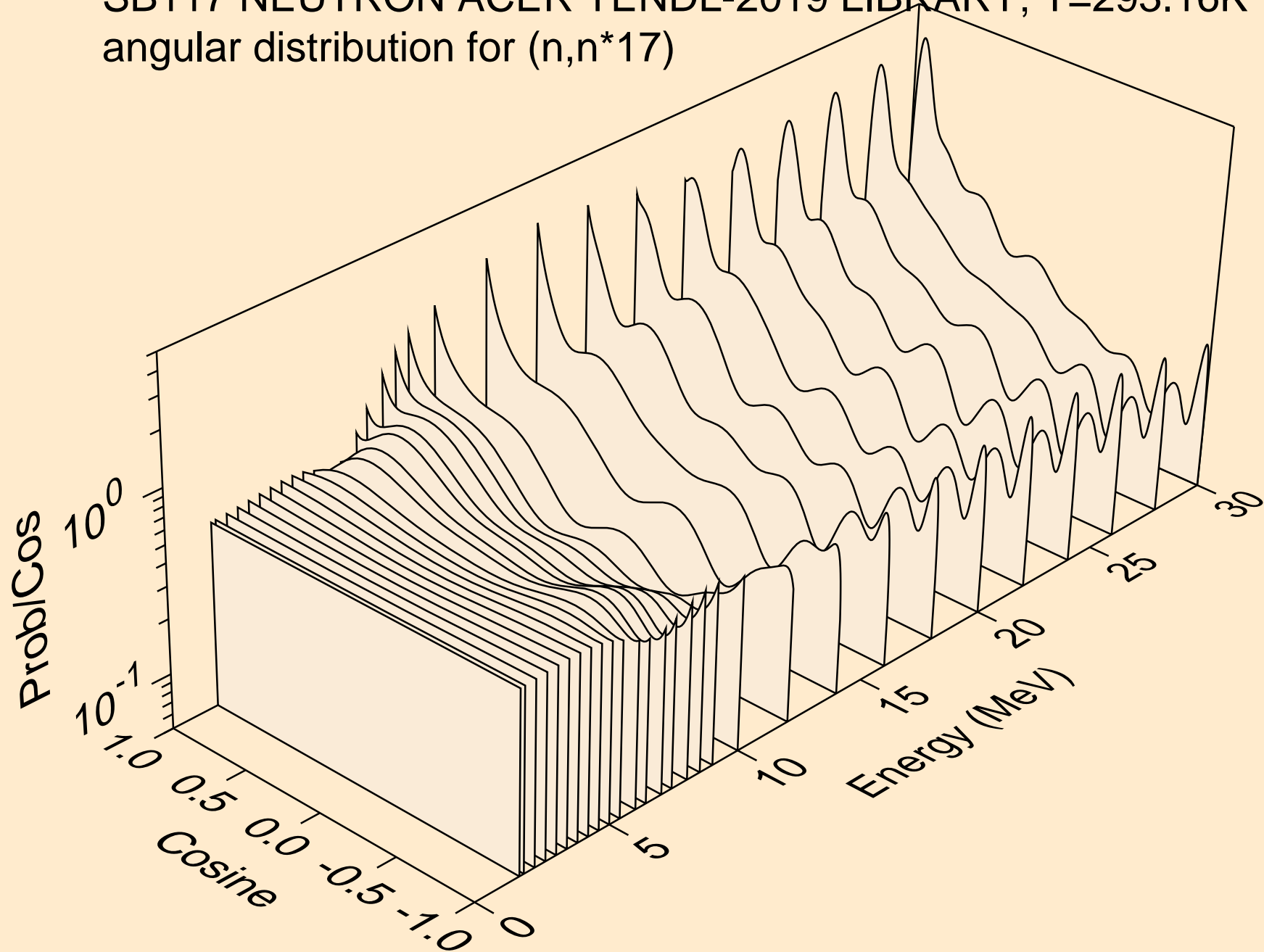
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angular distribution for (n,n\*15)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*16)

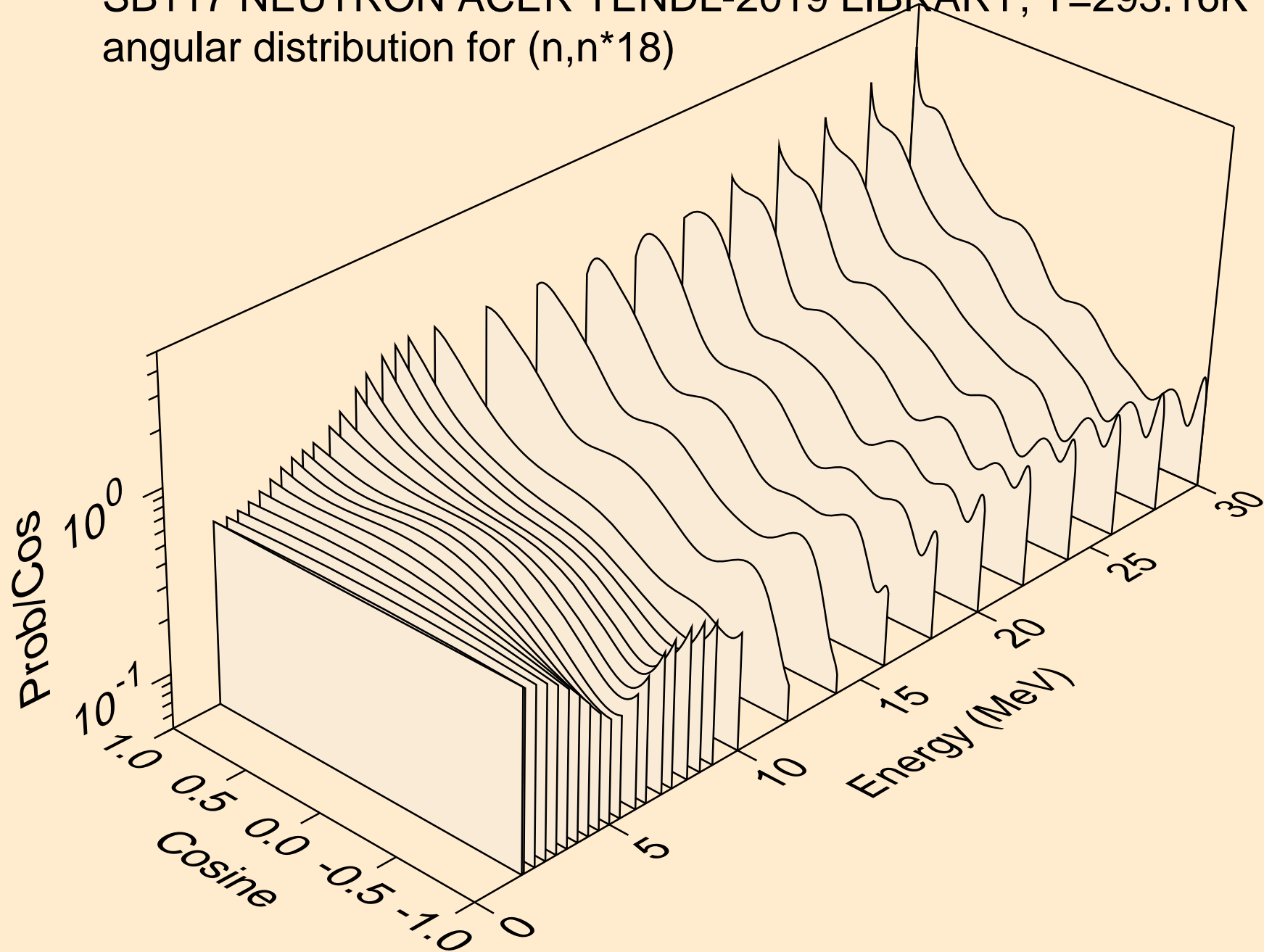


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angular distribution for (n,n\*17)

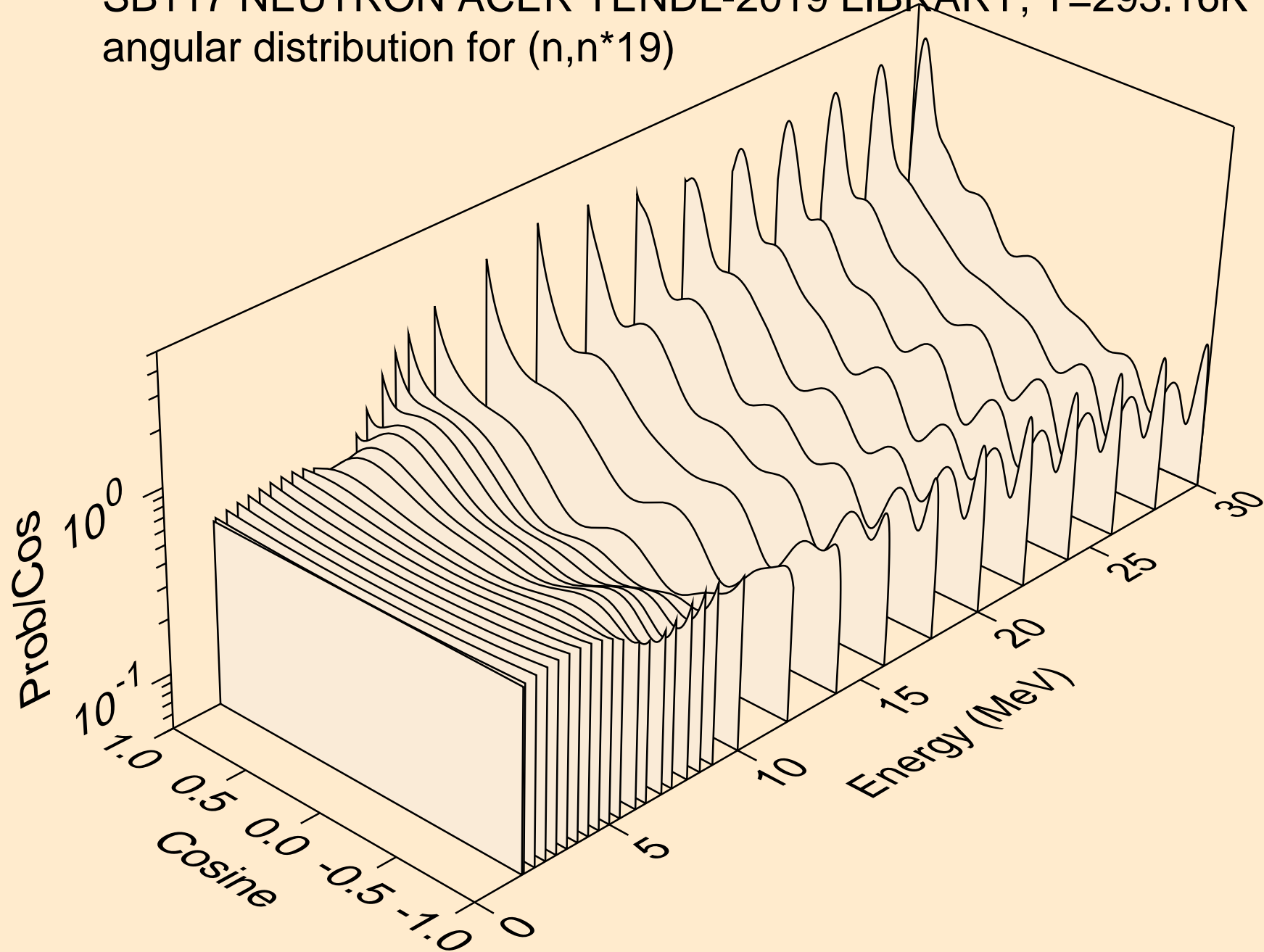




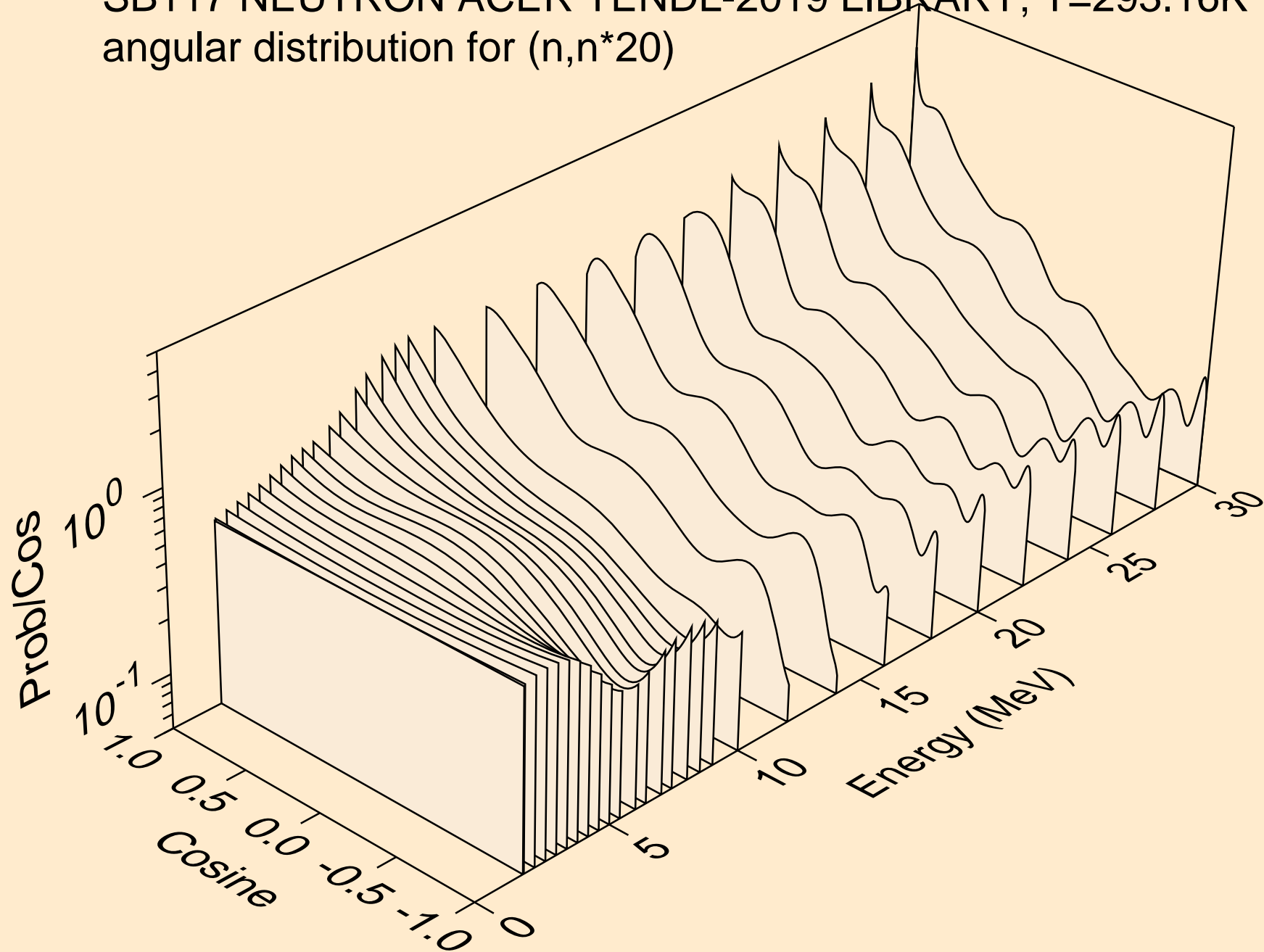
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angular distribution for (n,n\*18)



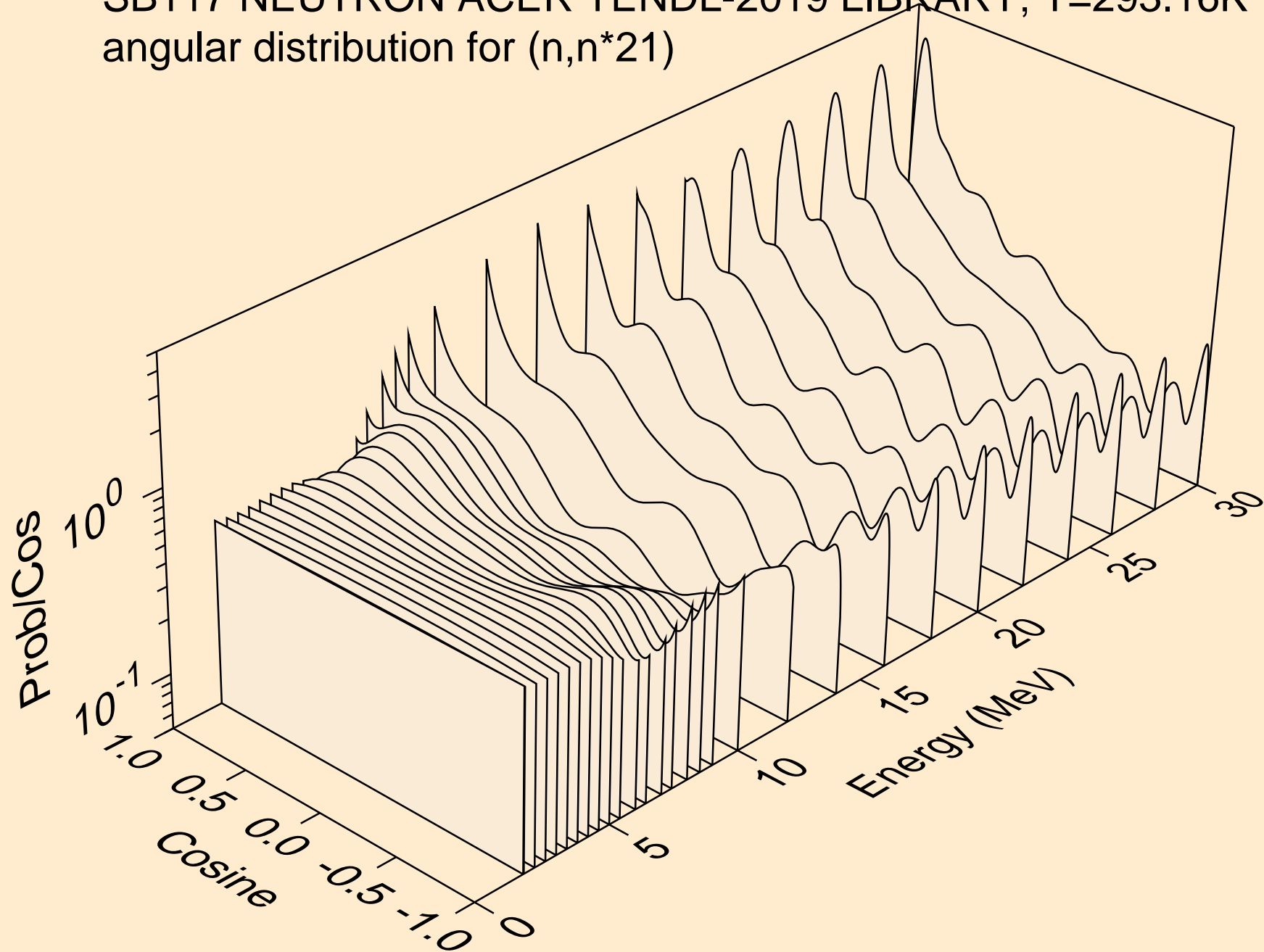
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angular distribution for (n,n\*19)



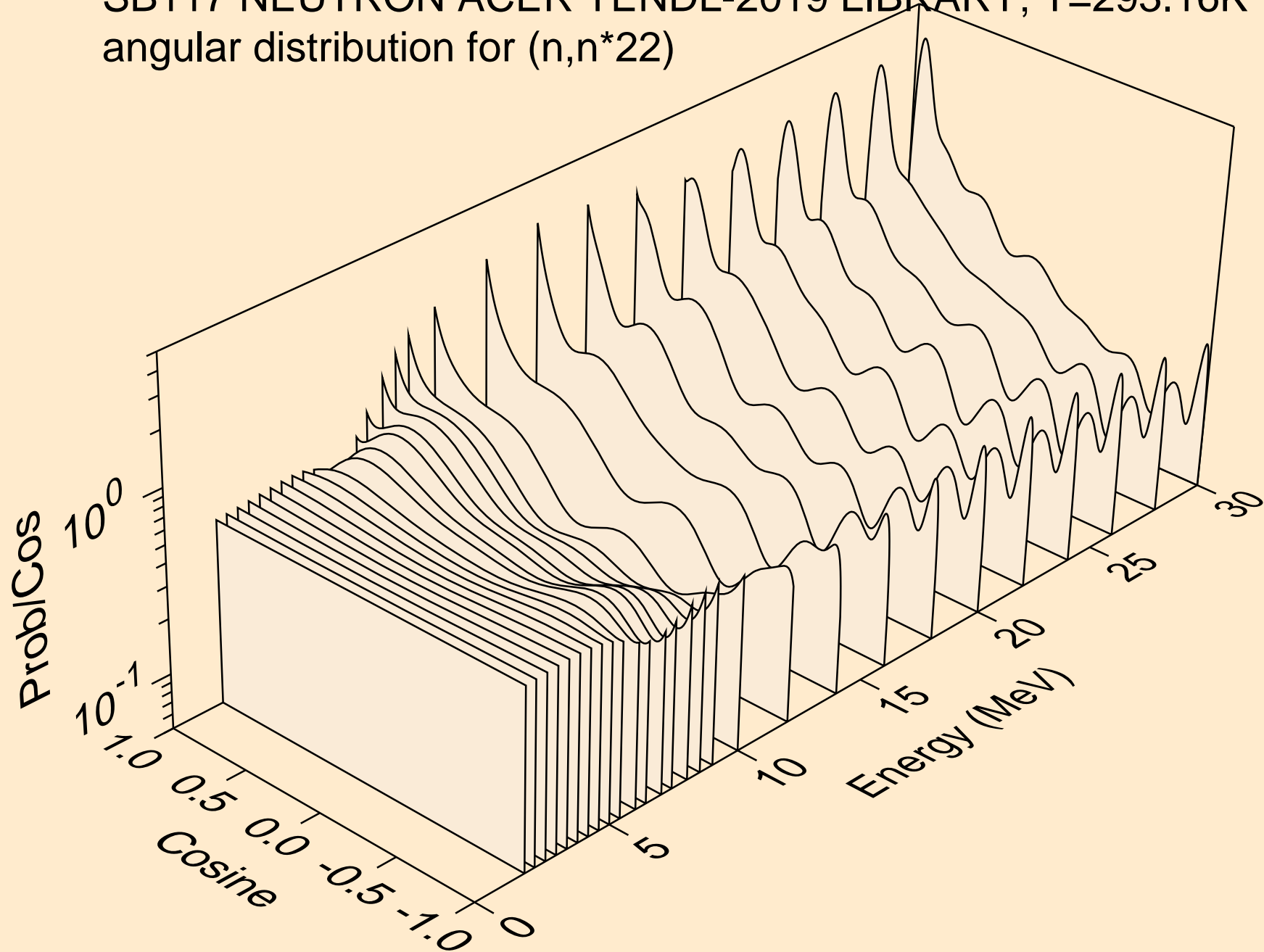
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angular distribution for (n,n\*20)



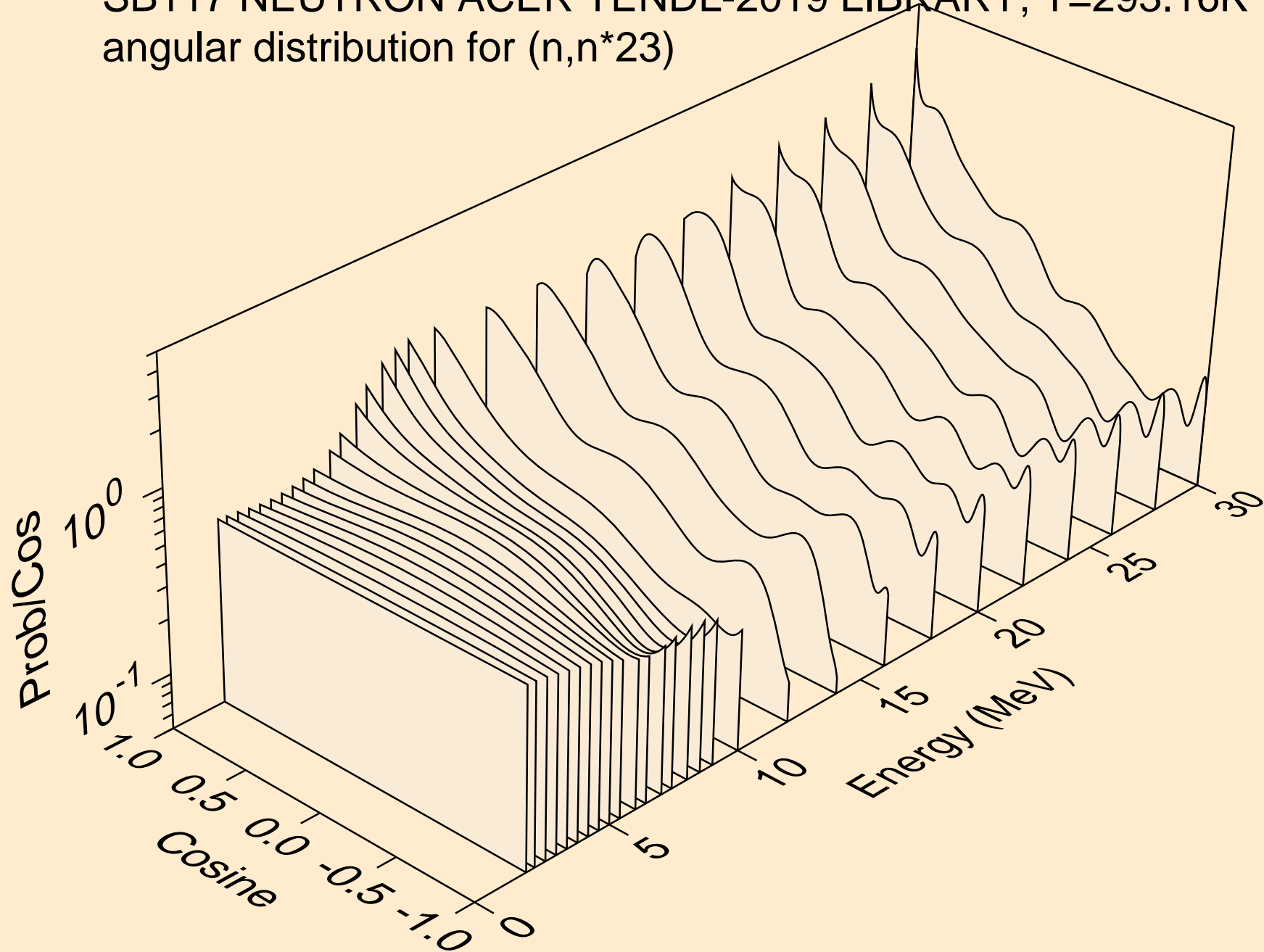
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angular distribution for (n,n\*21)



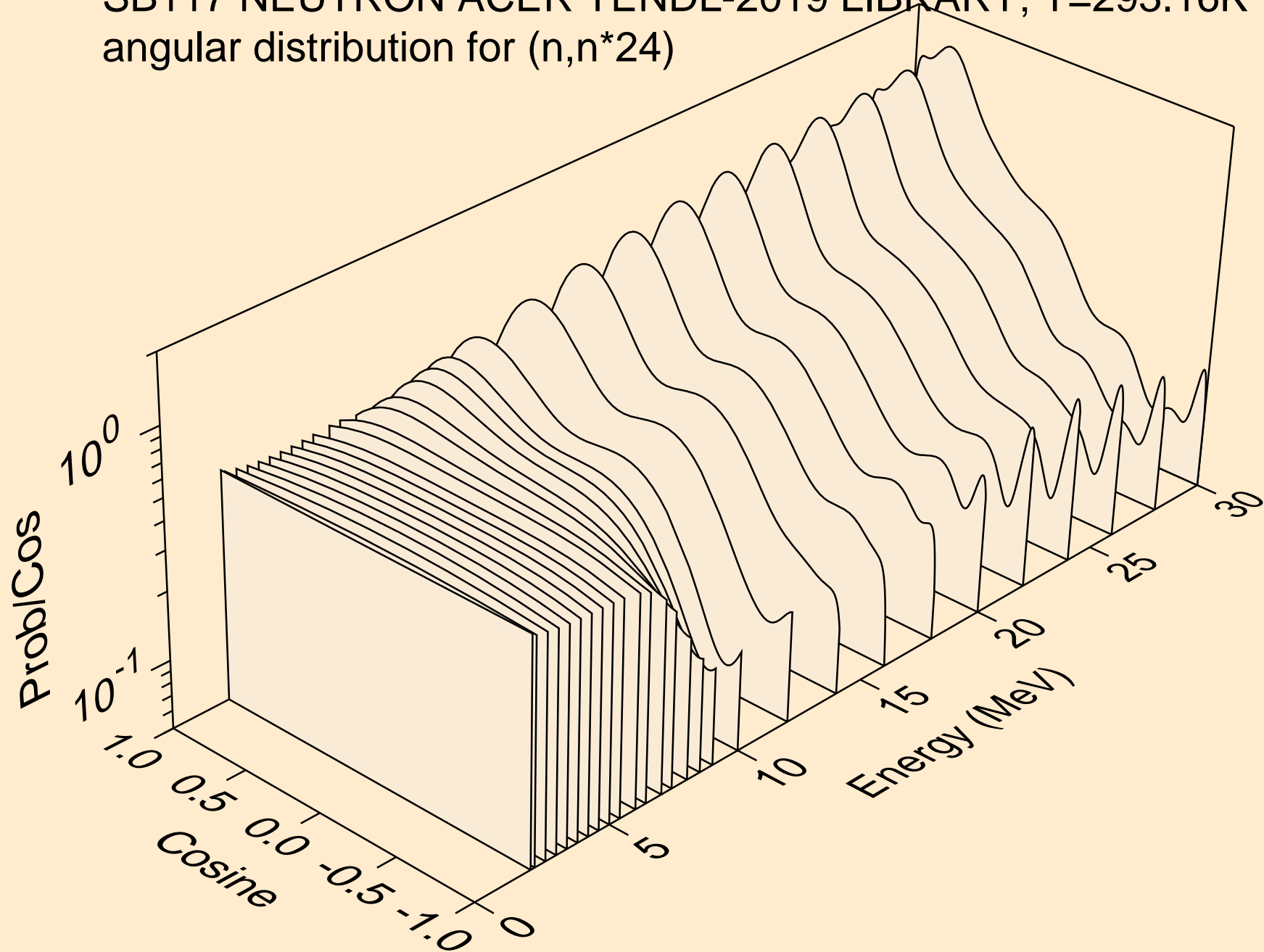
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angular distribution for (n,n\*22)



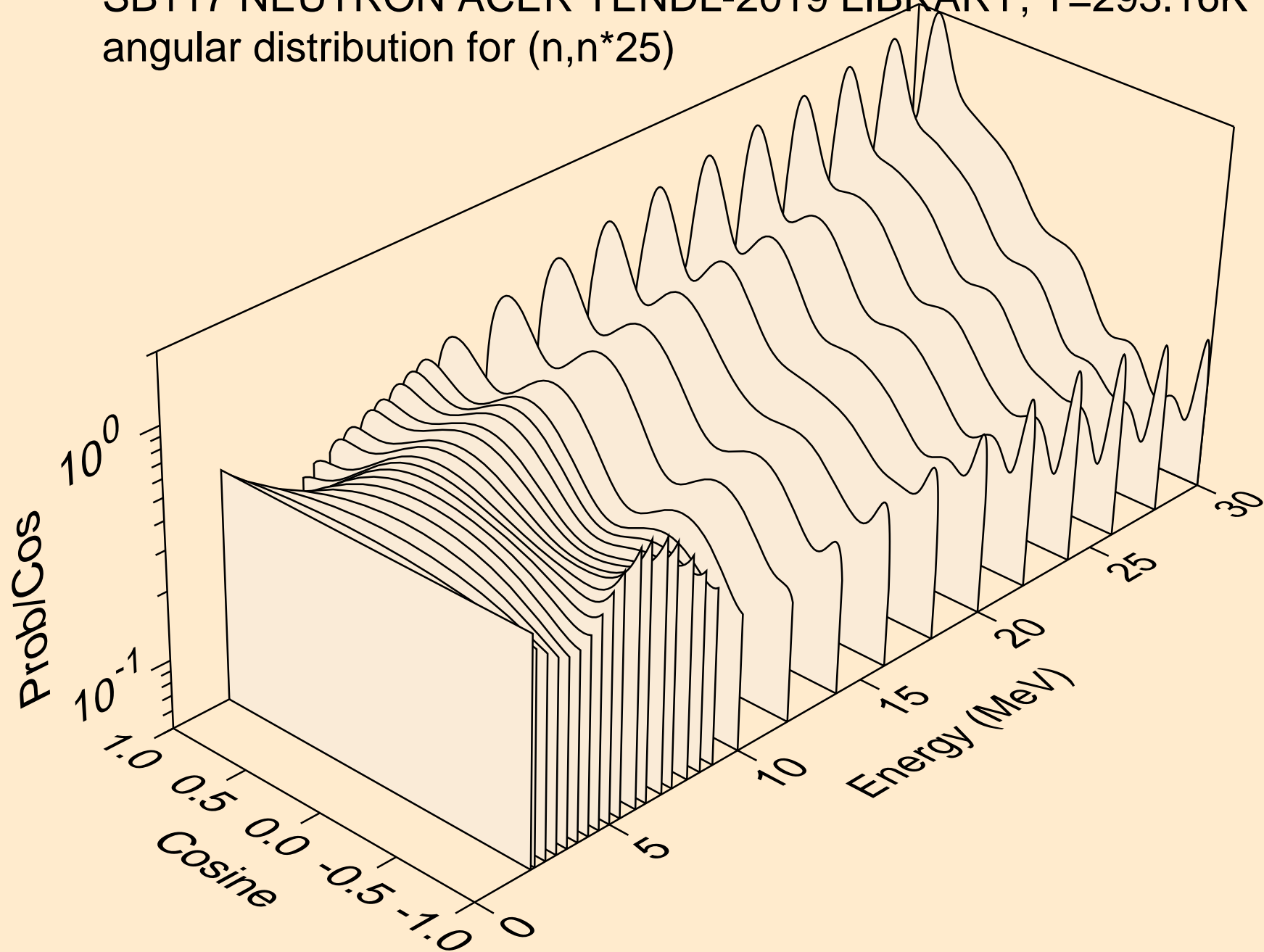
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*23)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*24)

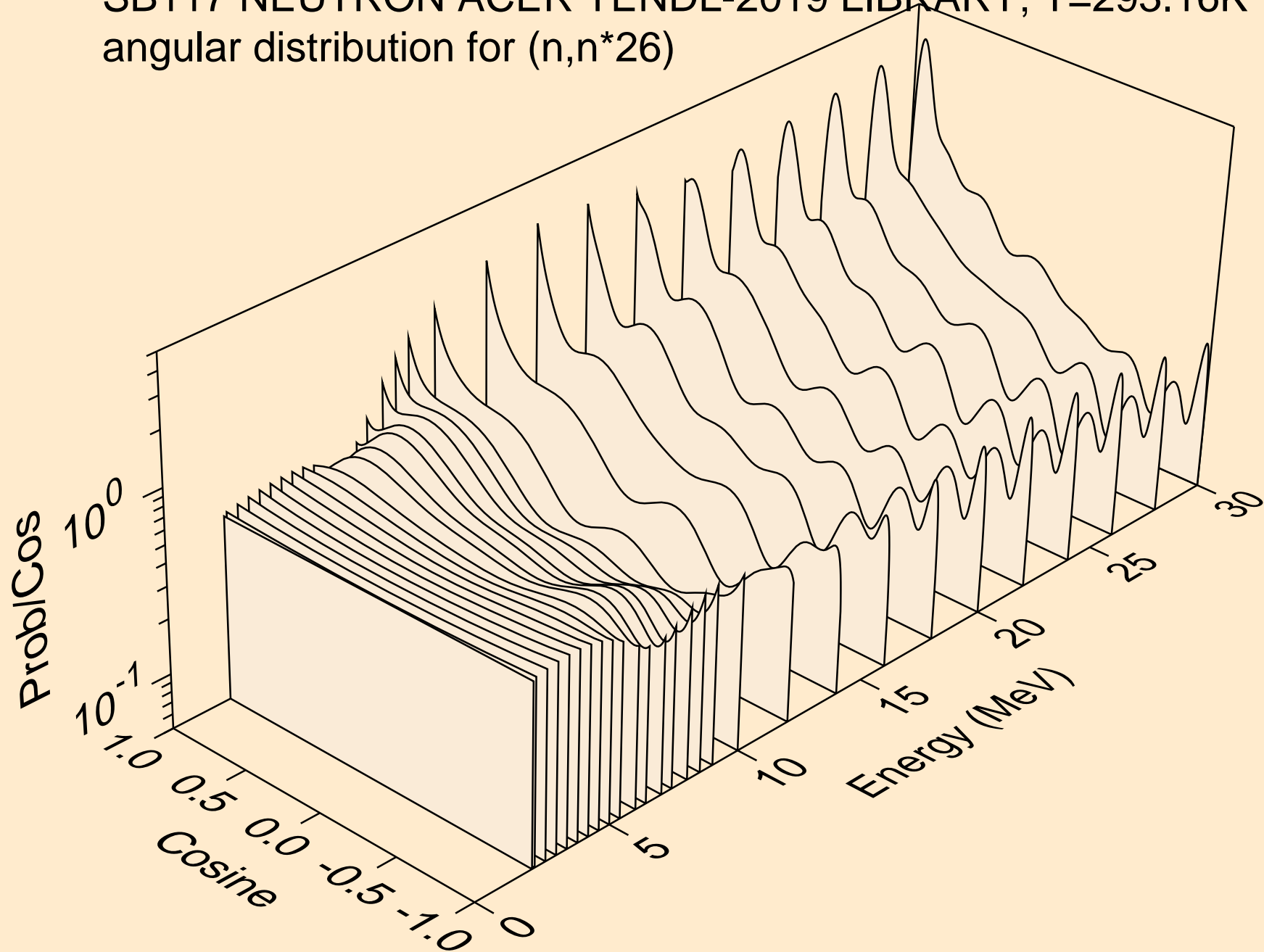


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*25)

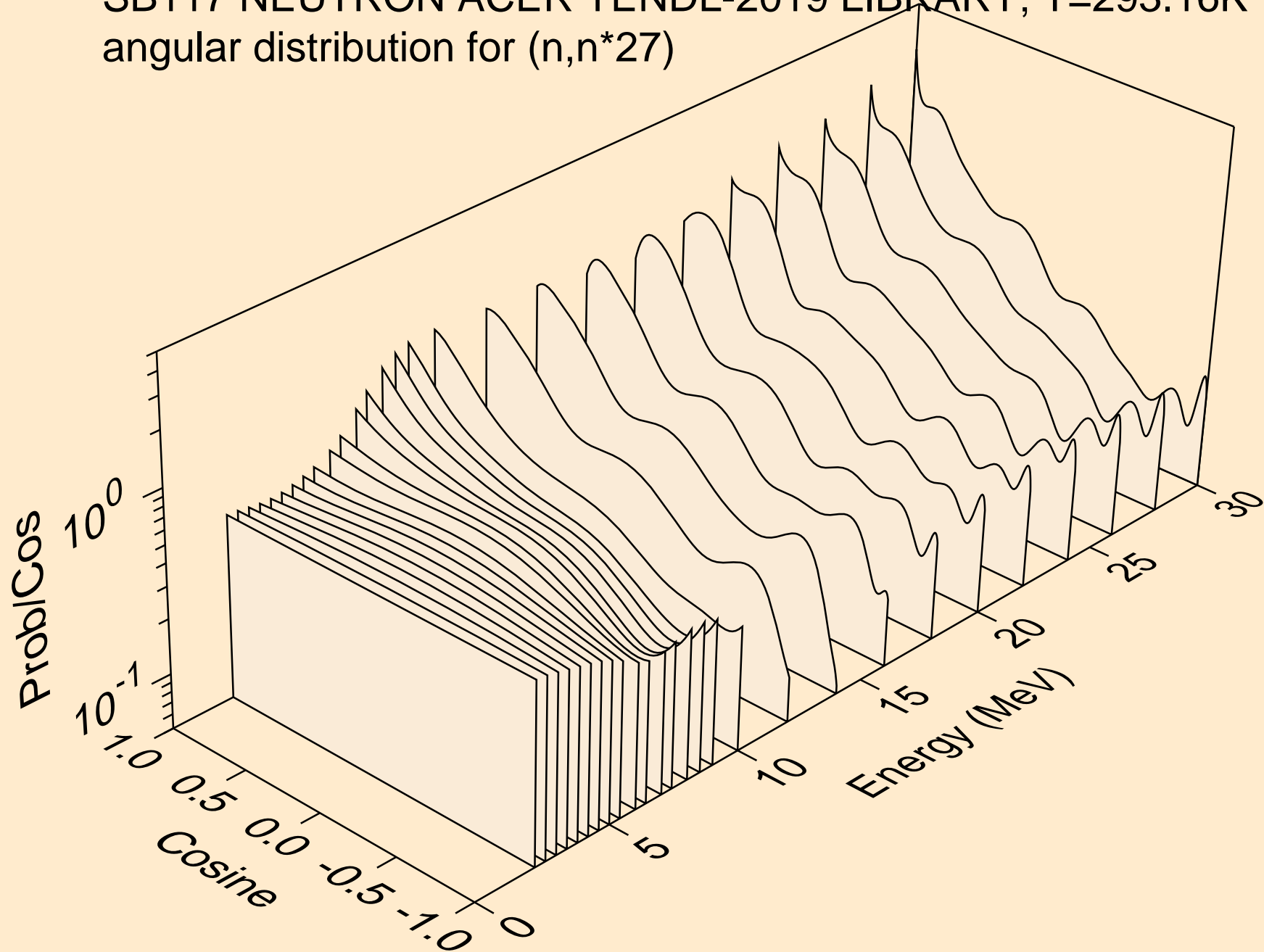




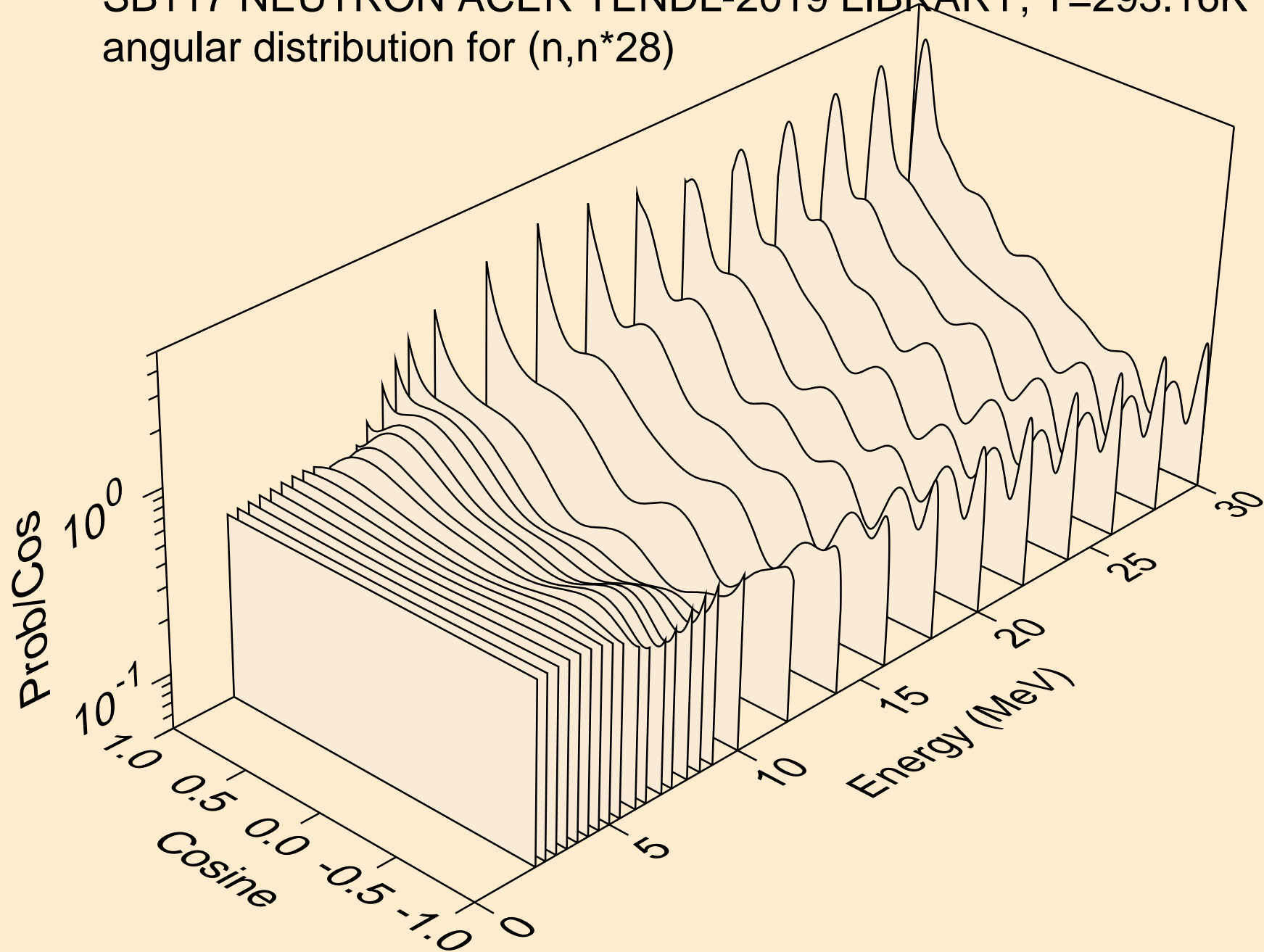
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angular distribution for (n,n\*26)



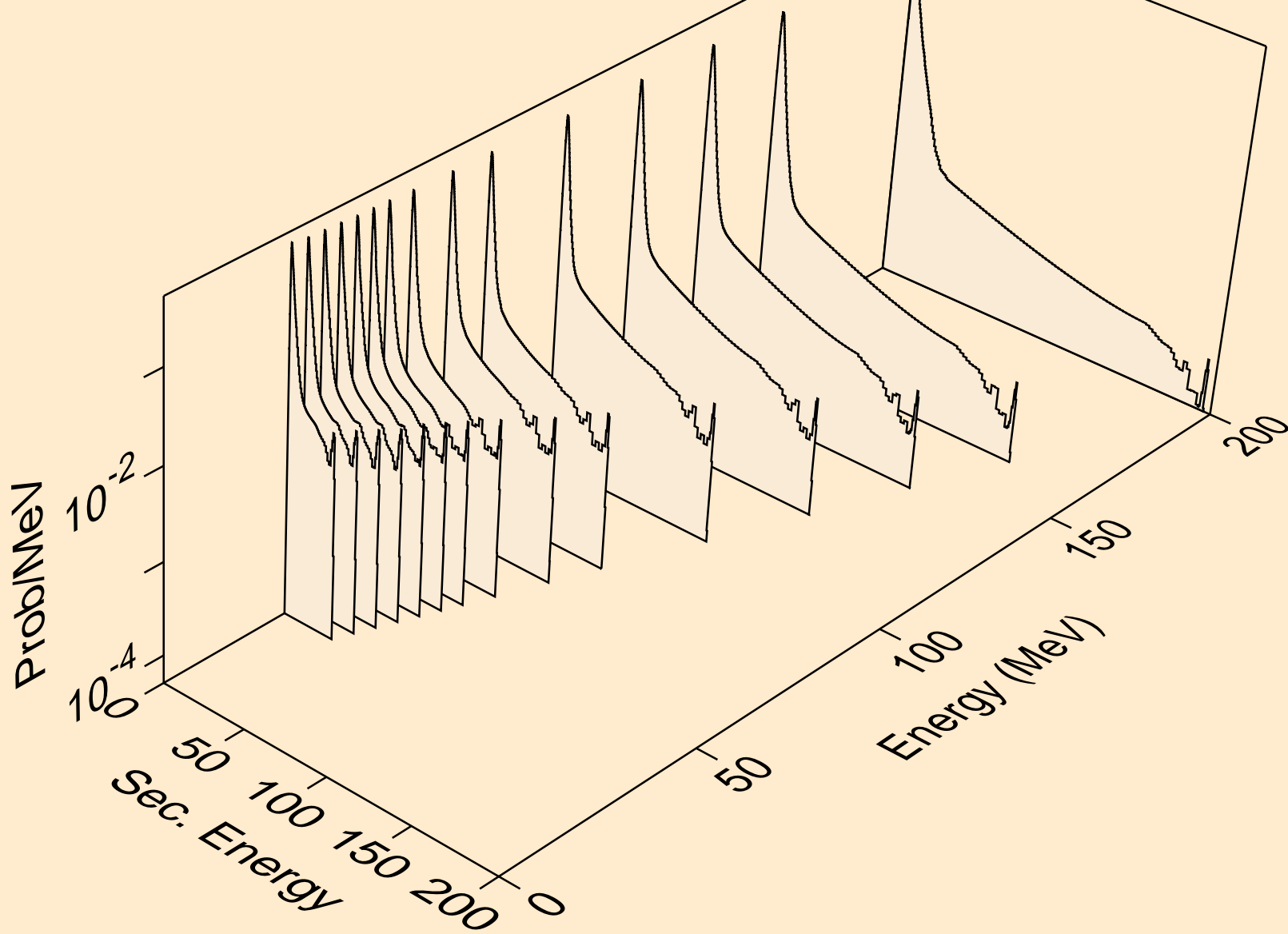
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angular distribution for (n,n\*27)



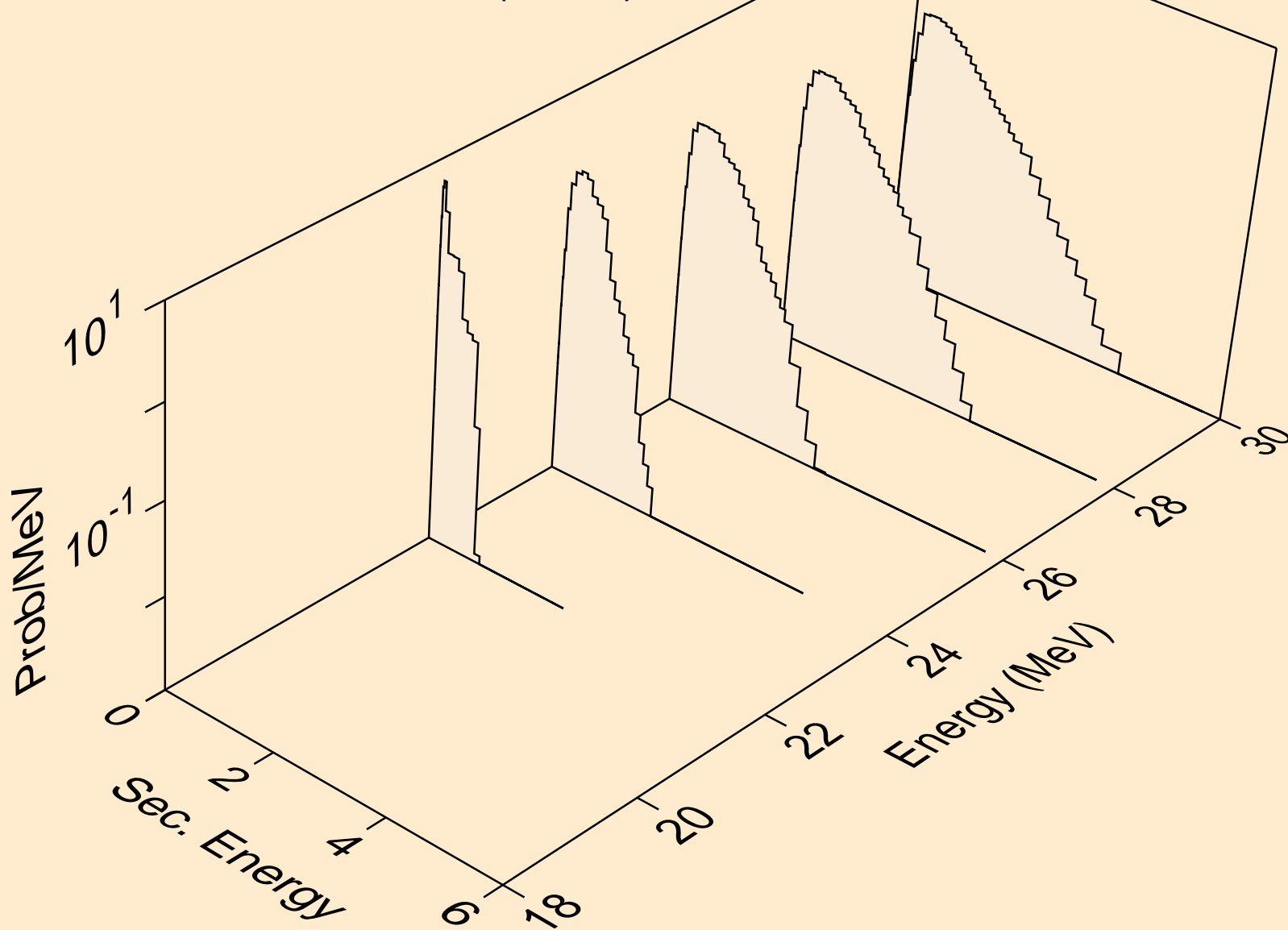
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*28)



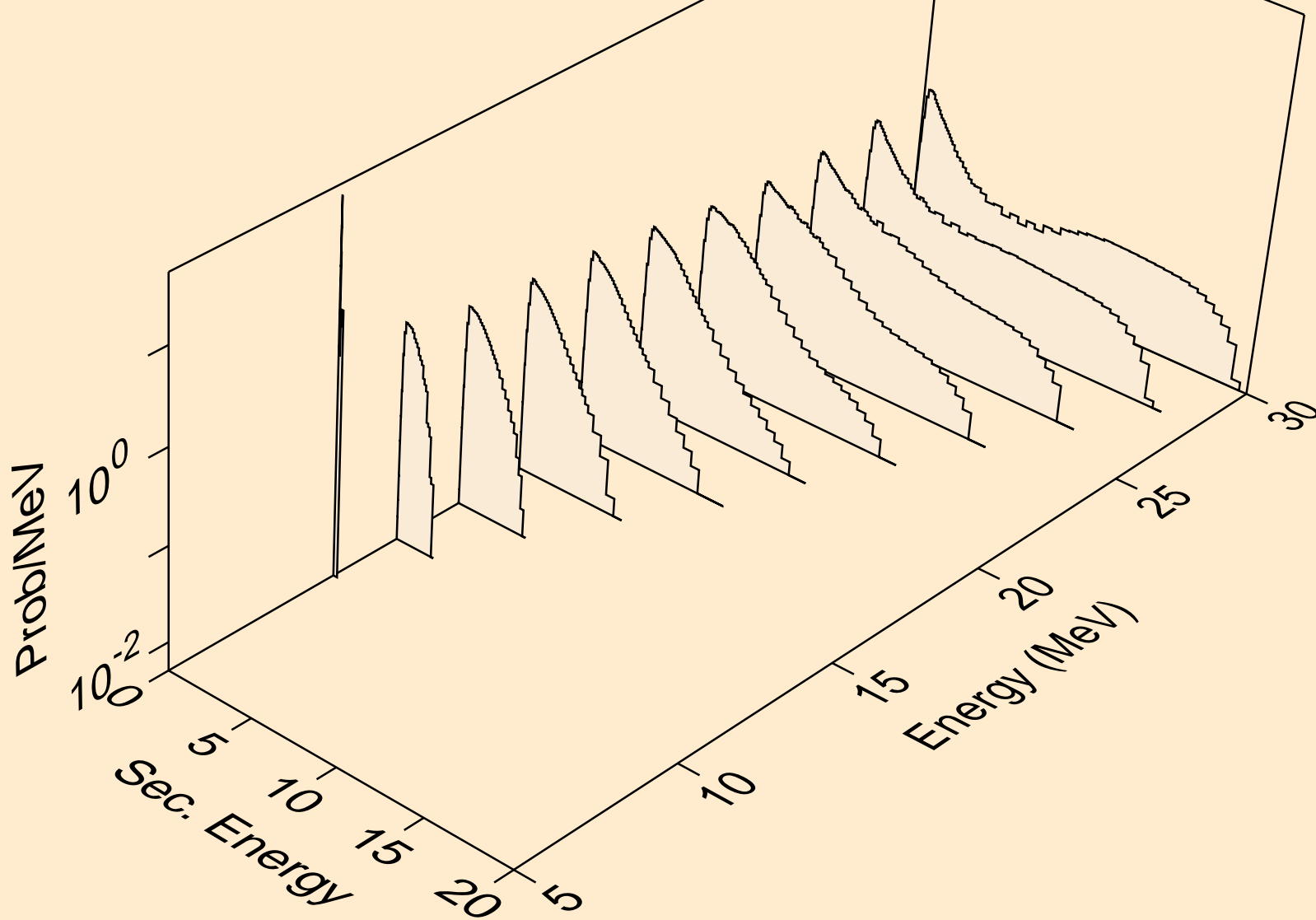
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



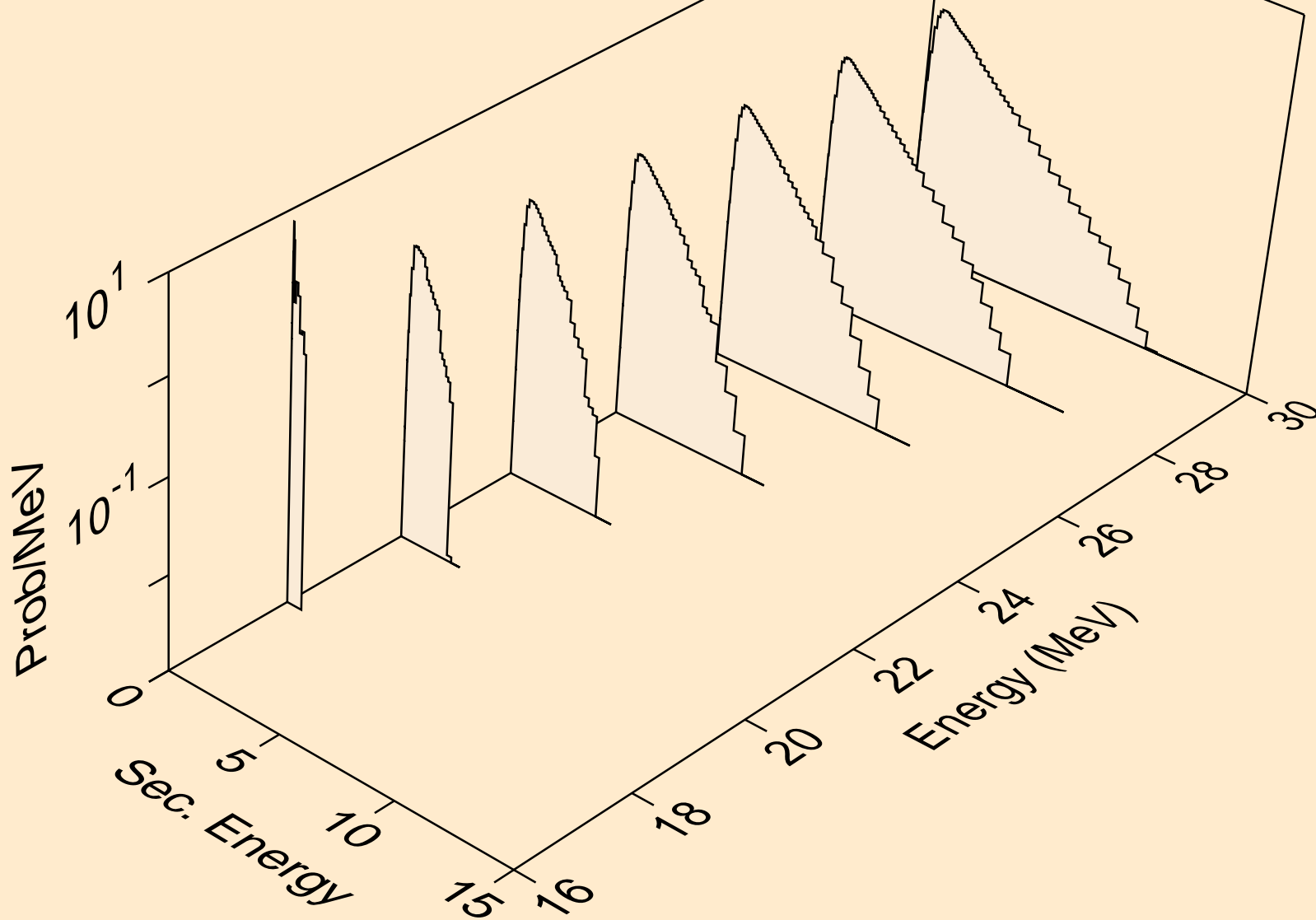
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)



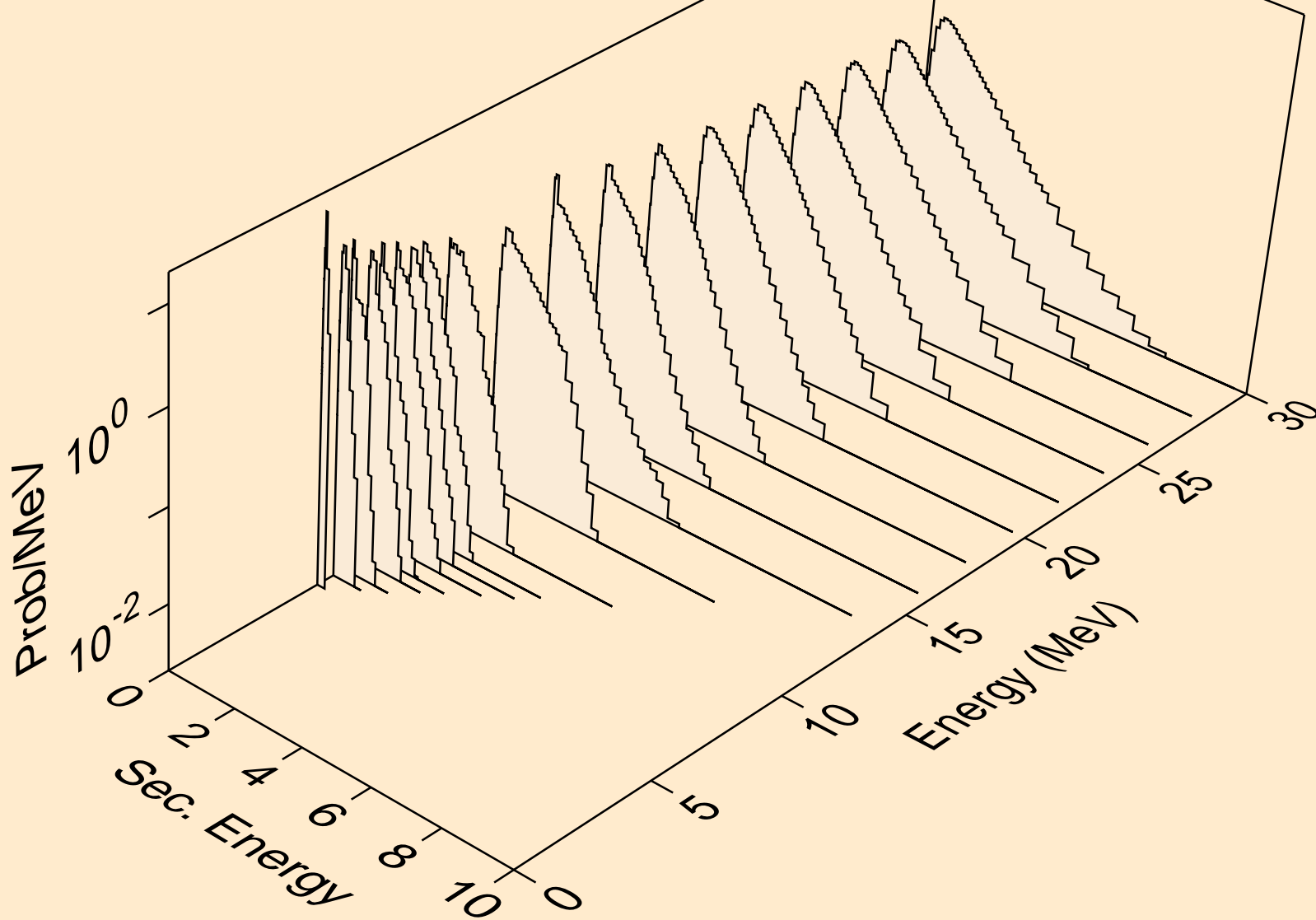
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)

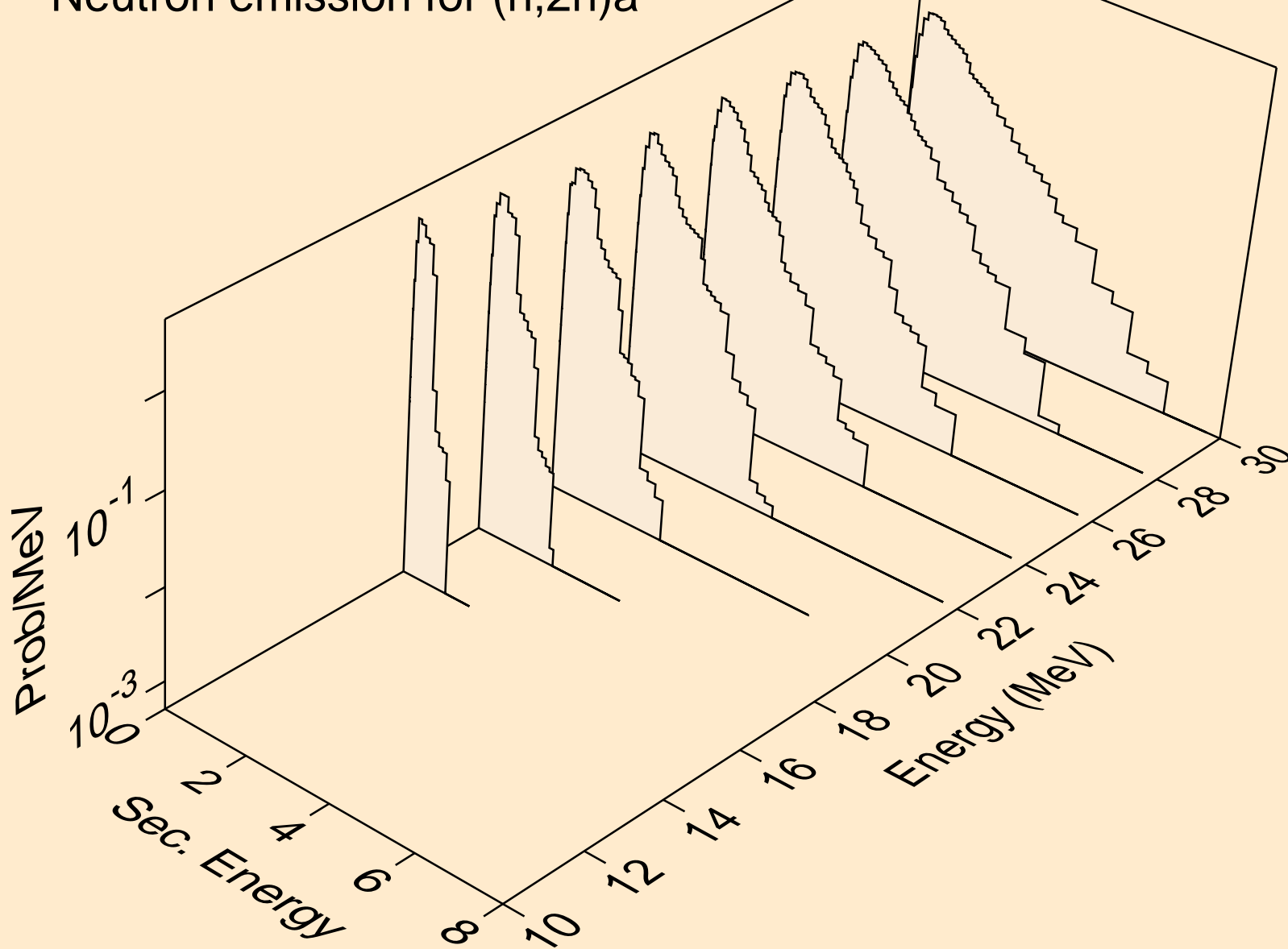


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a

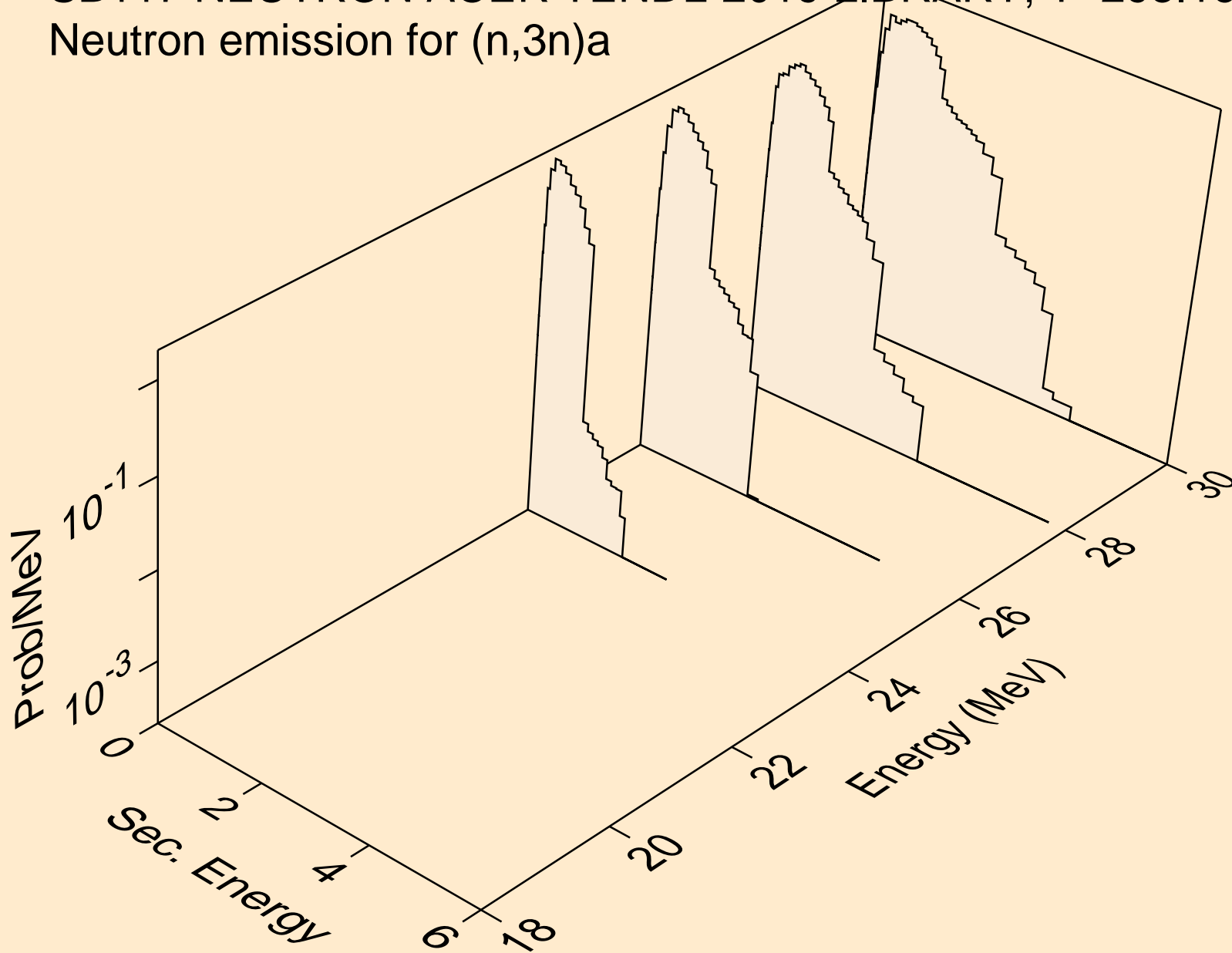




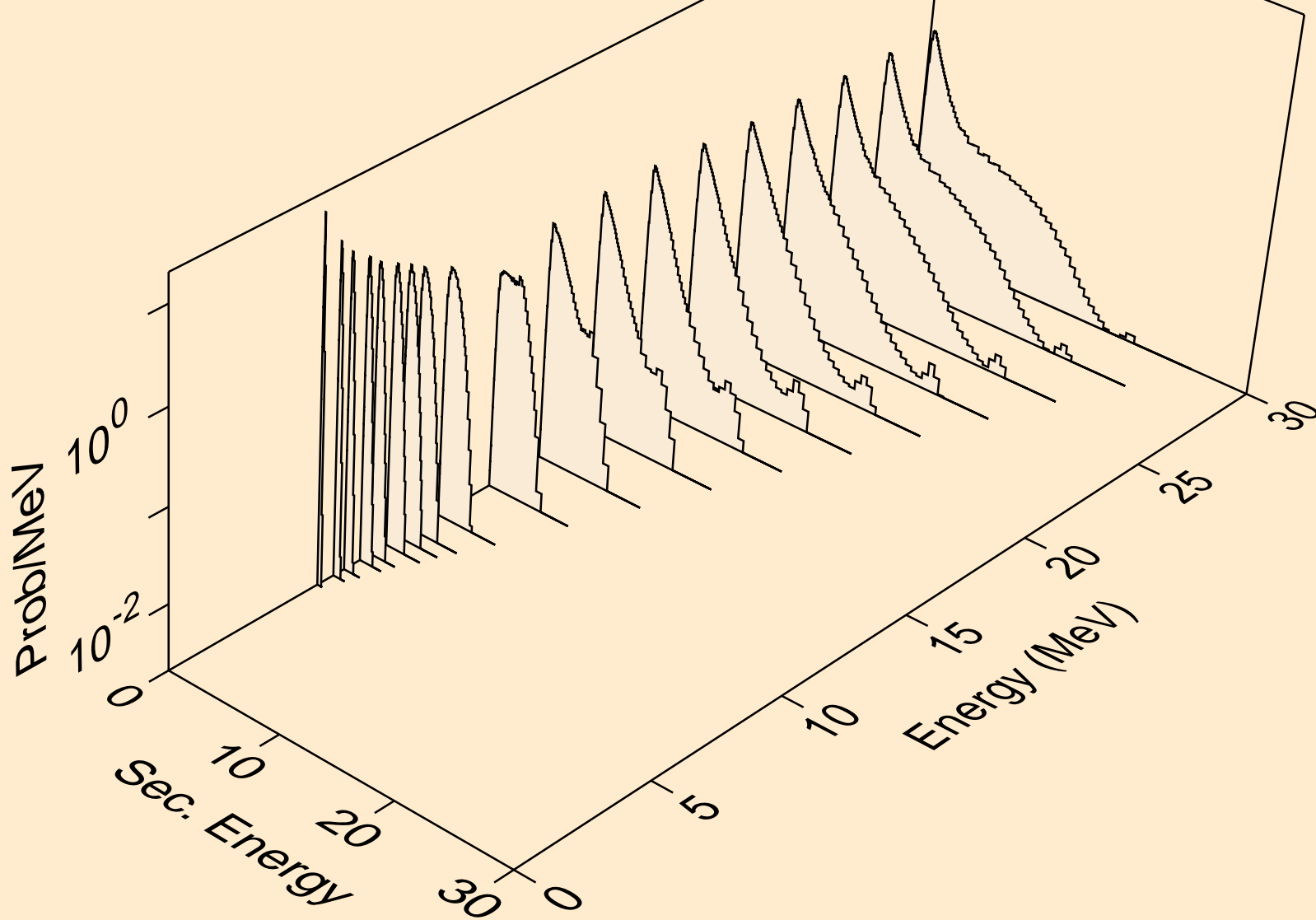
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



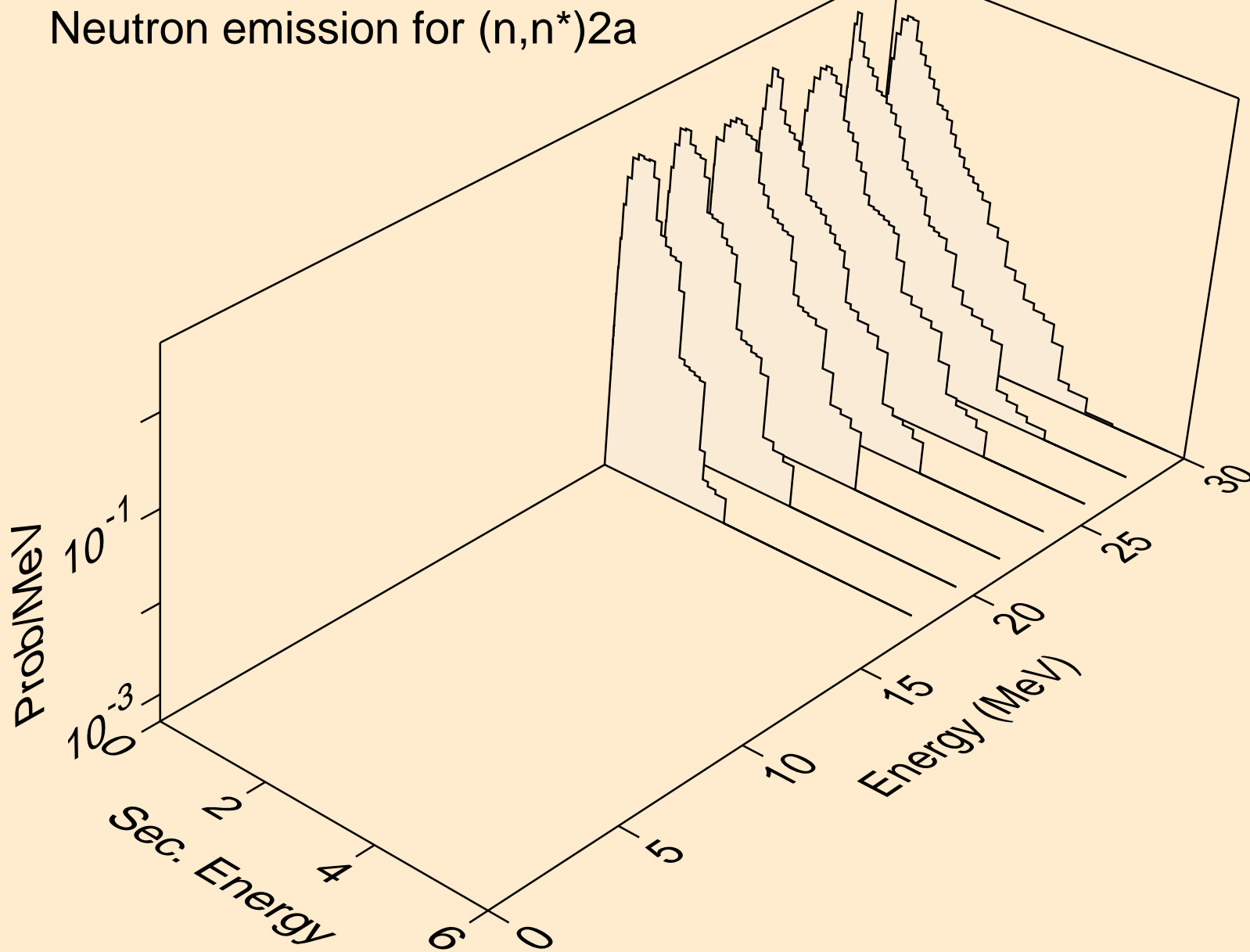
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



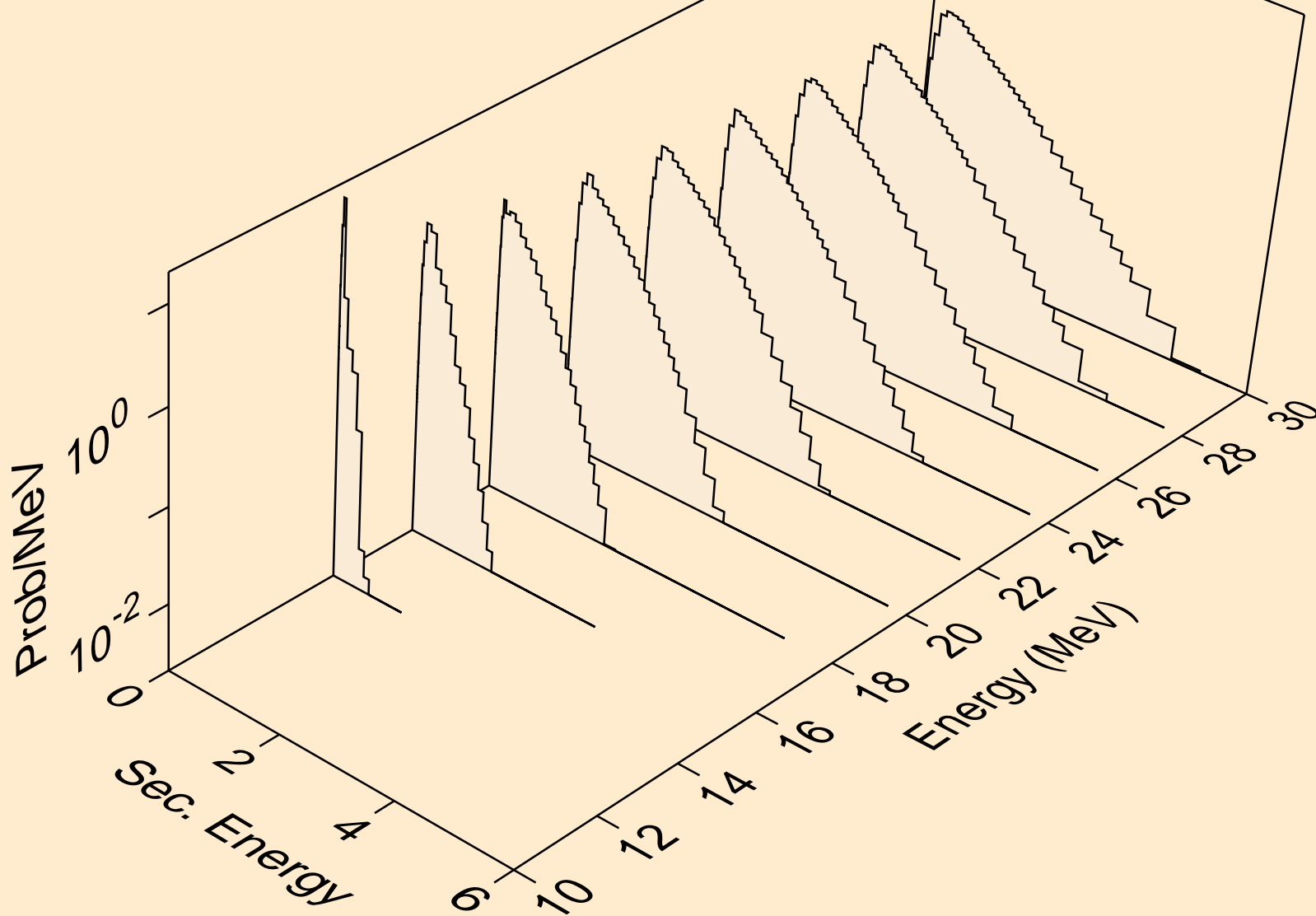
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



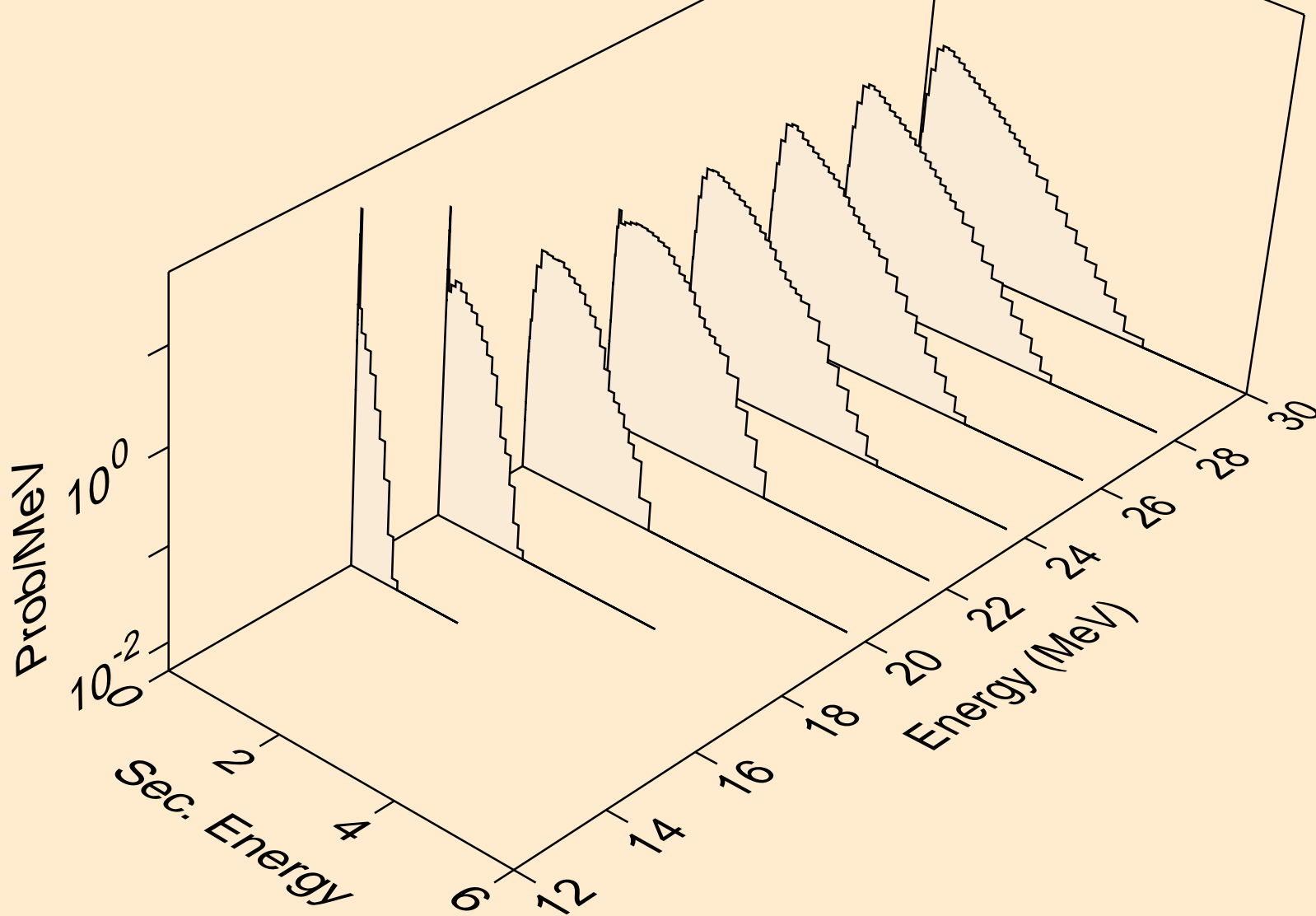
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)2a



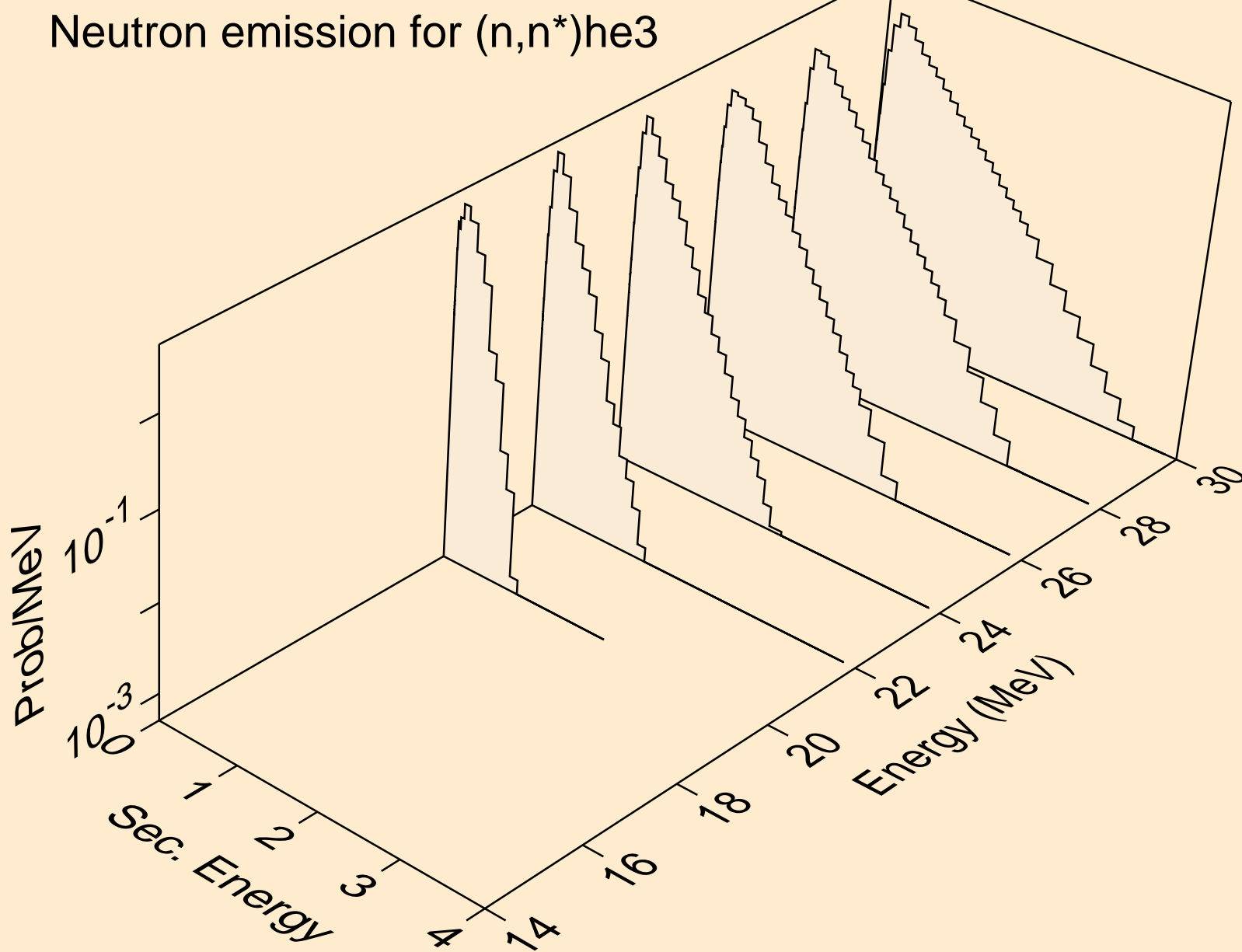
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



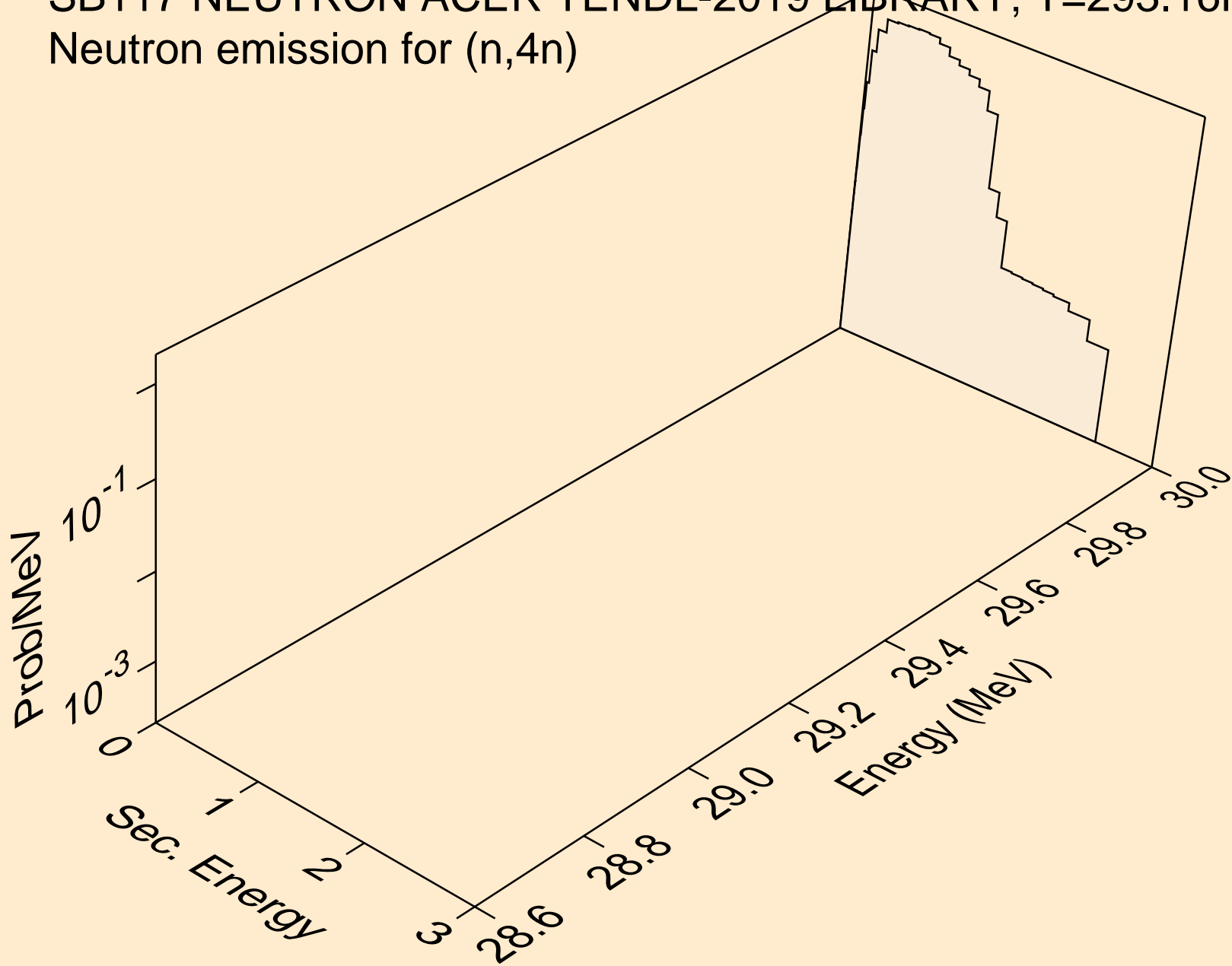
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

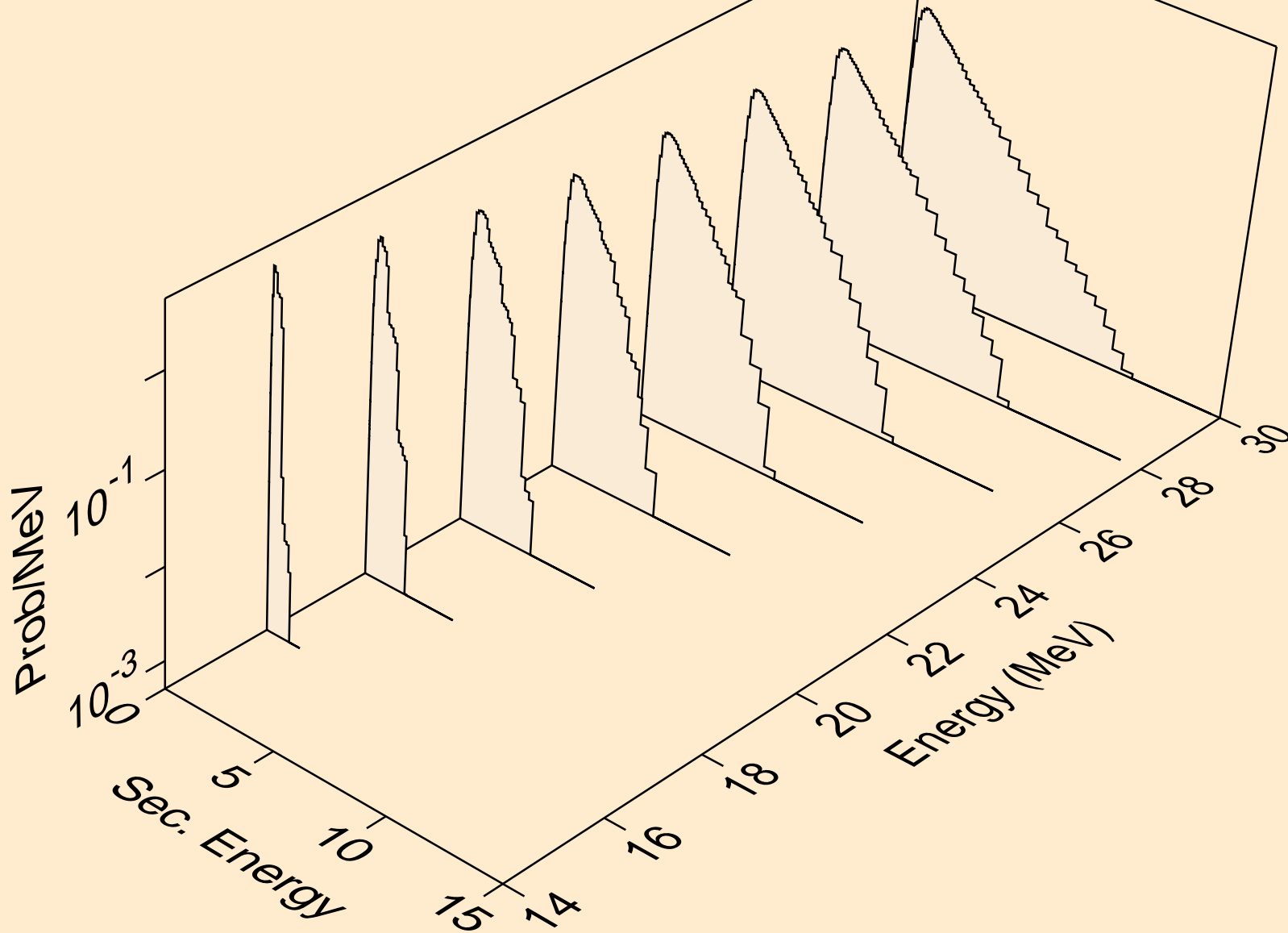


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,4n)

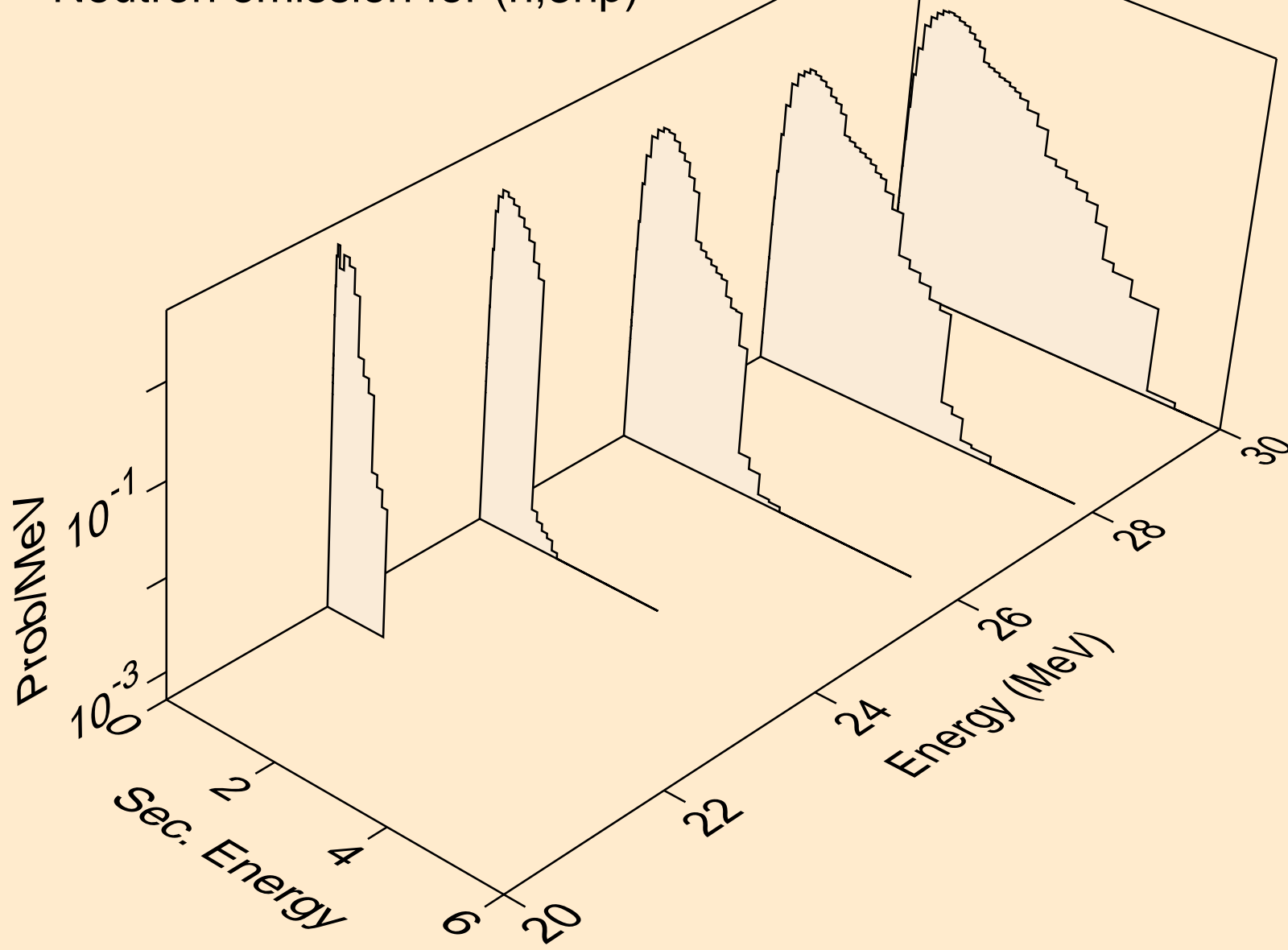




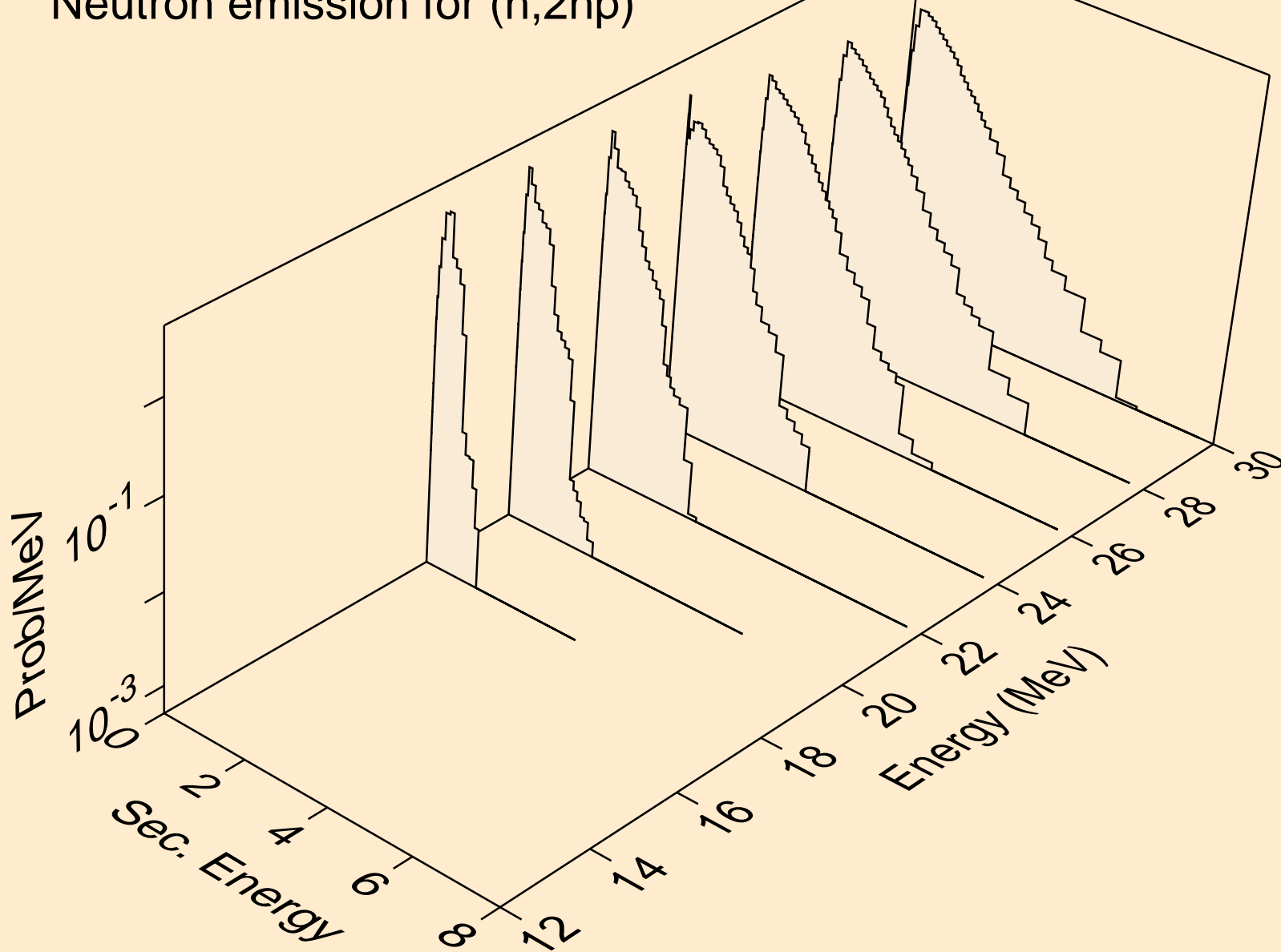
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



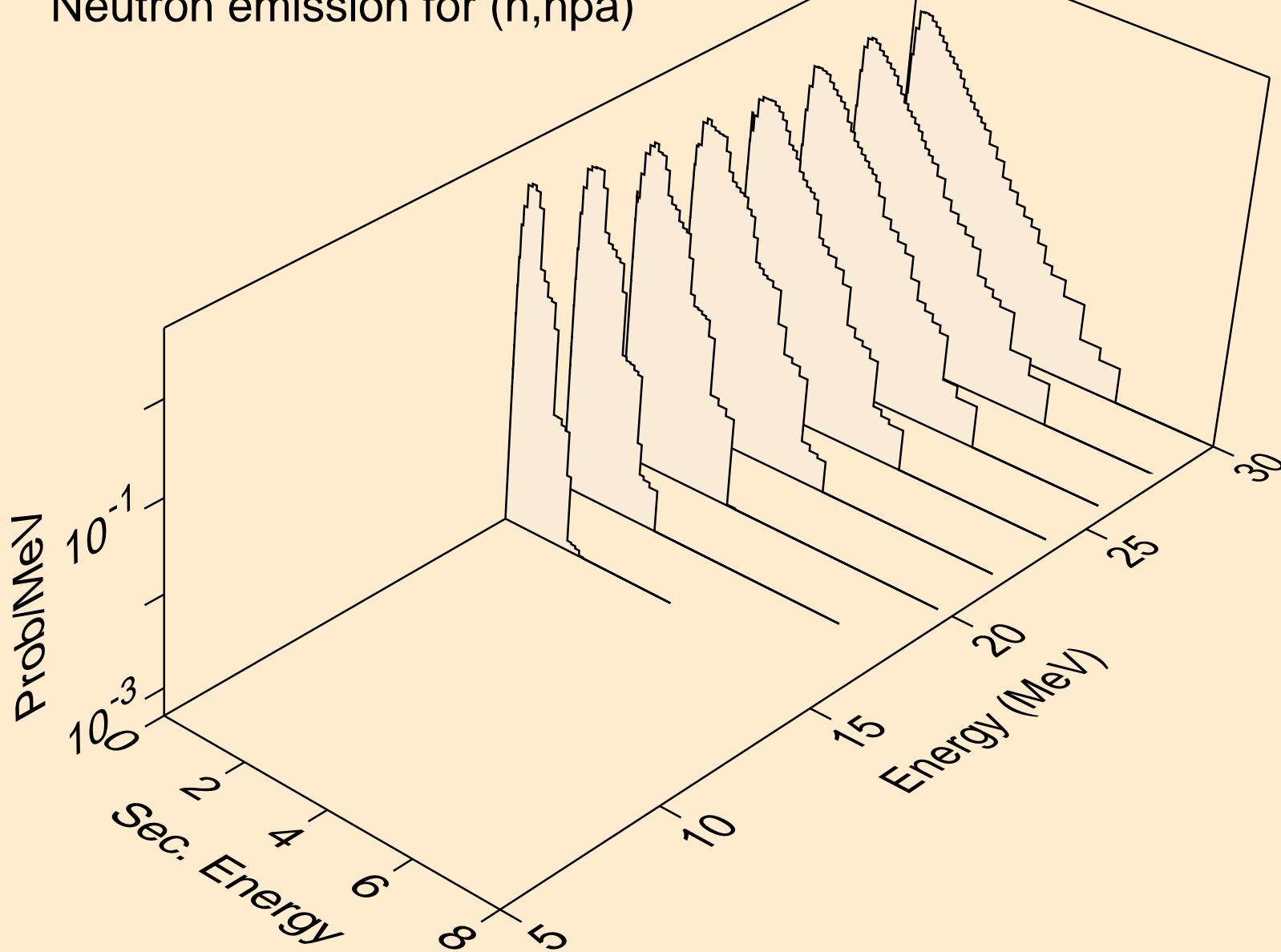
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



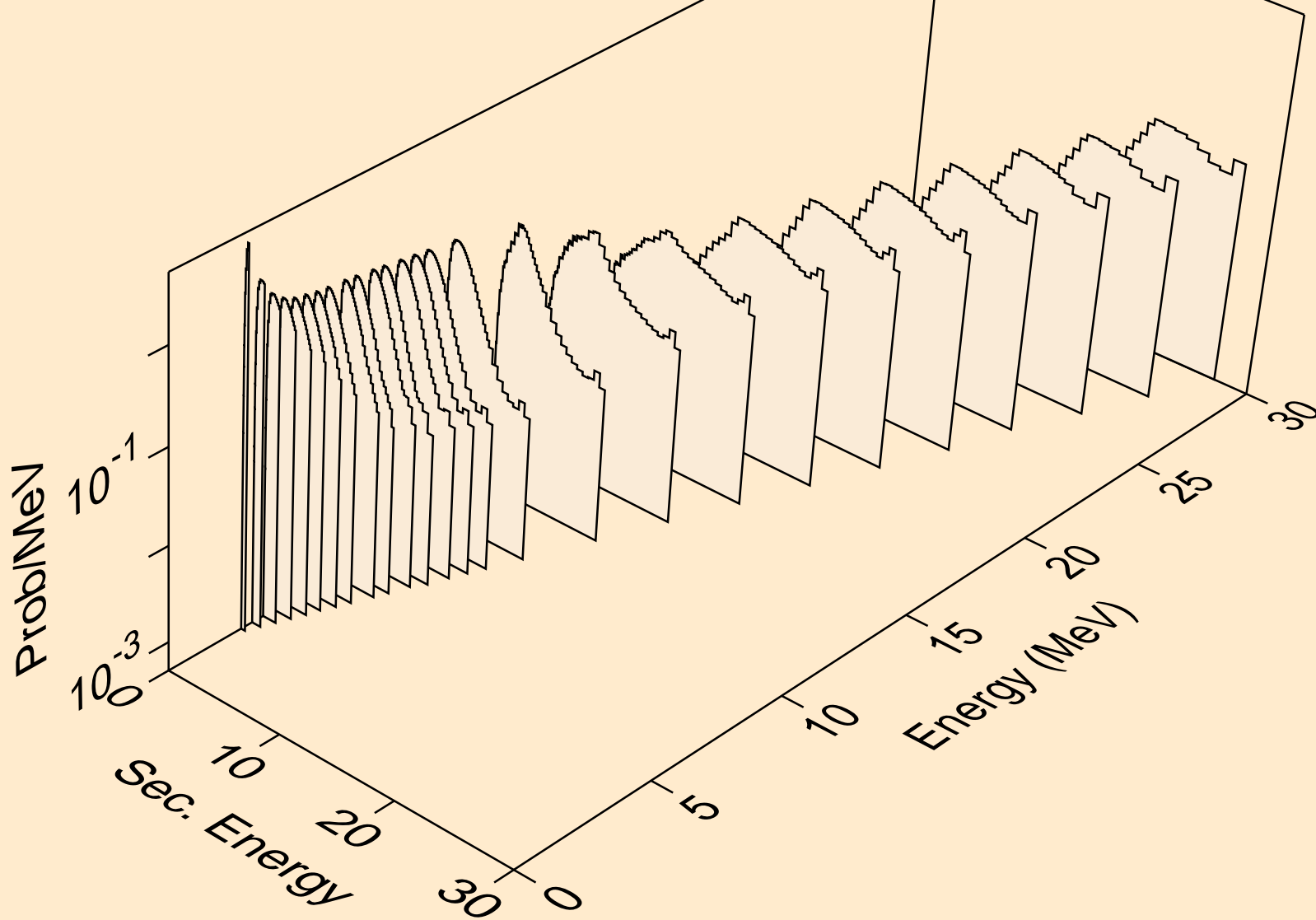
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Neutron emission for (n,2np)



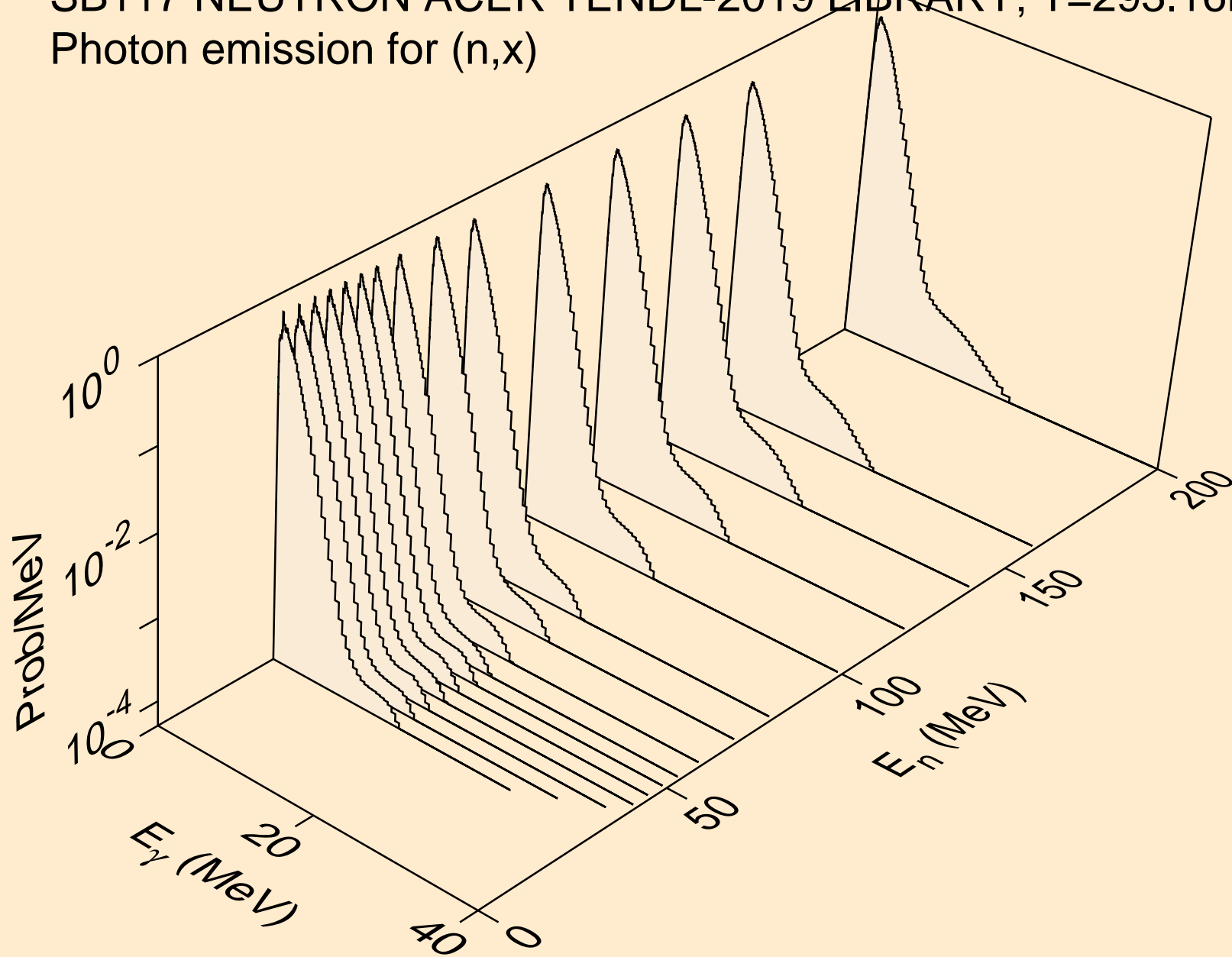
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,npa)



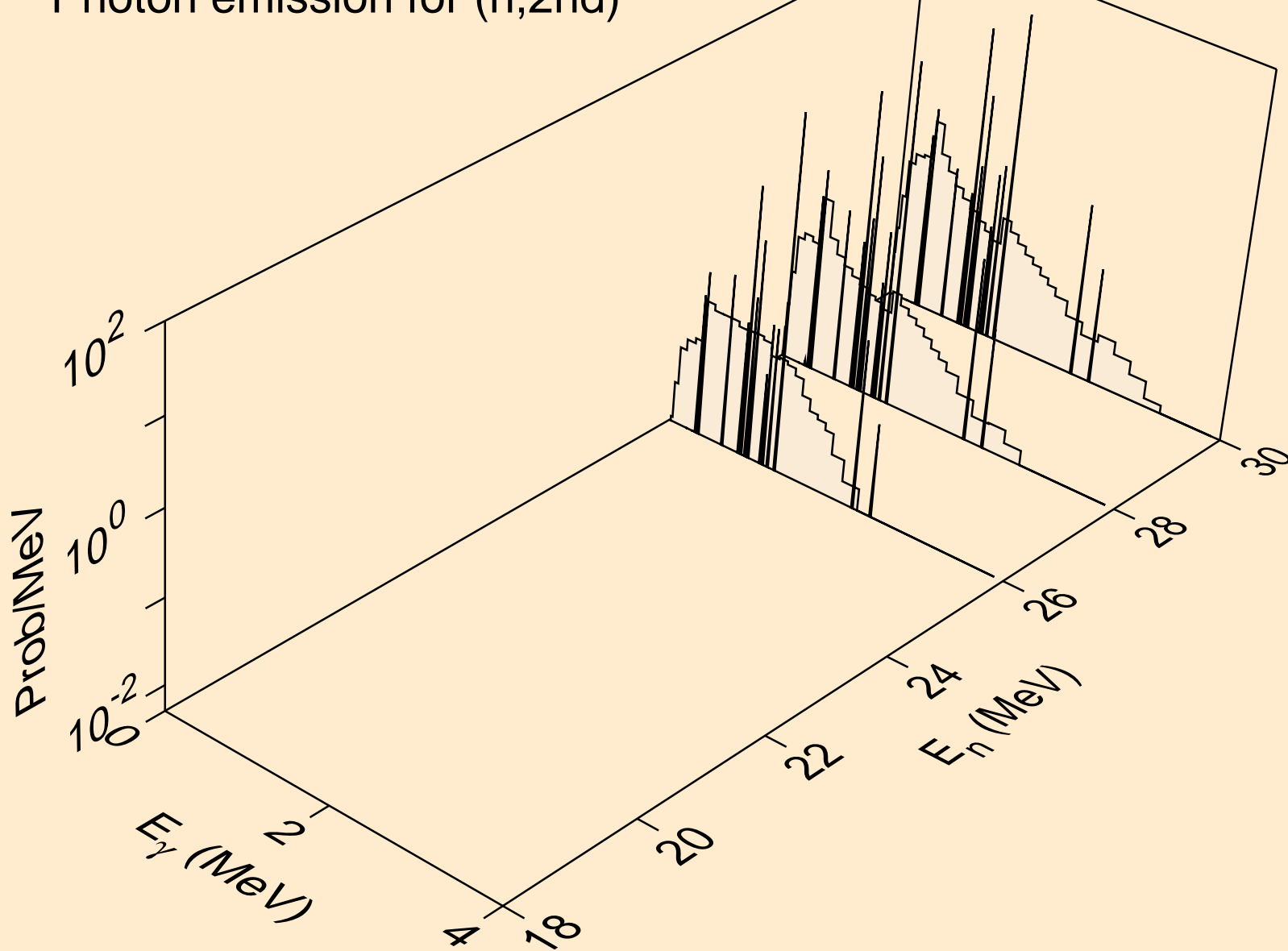
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



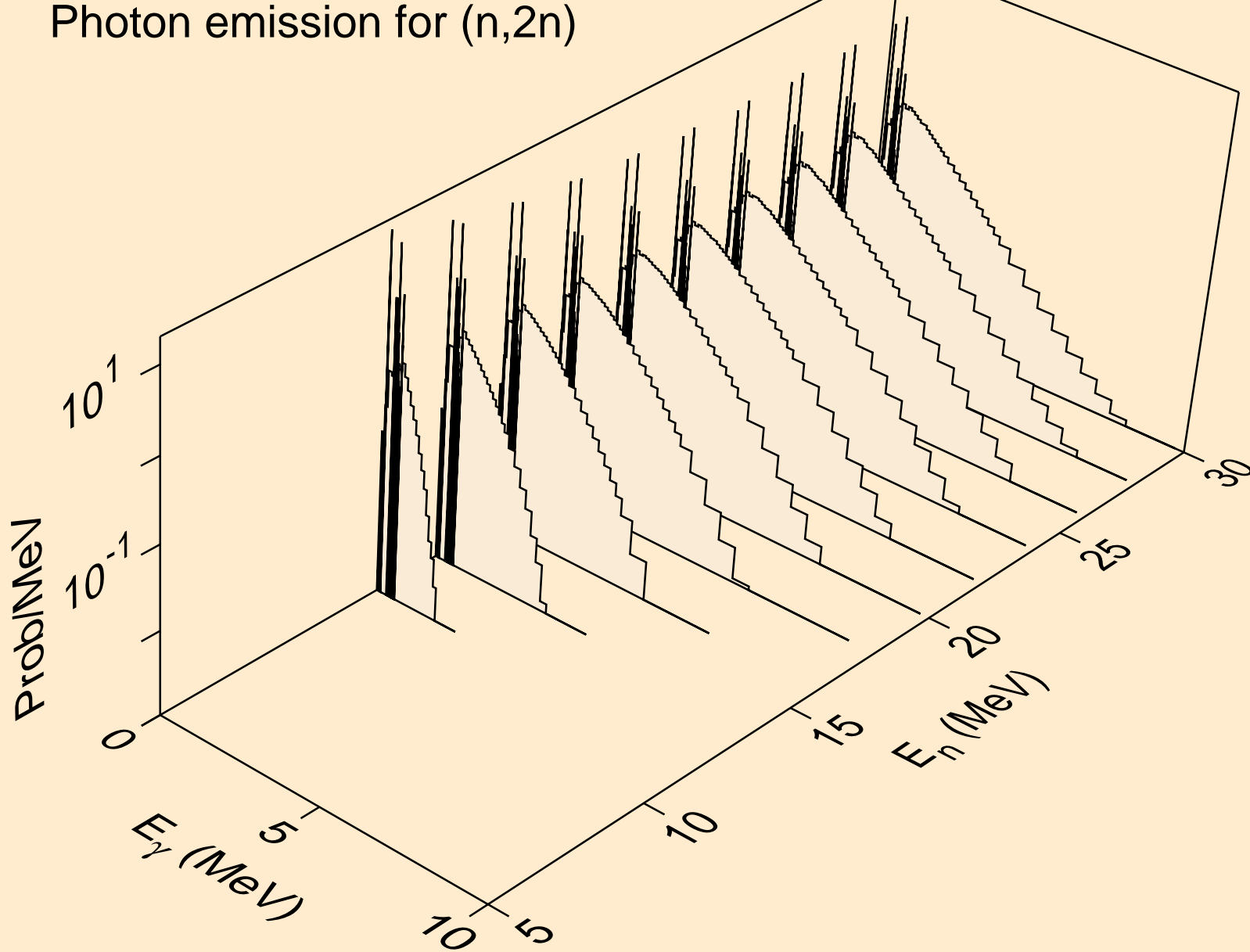
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)

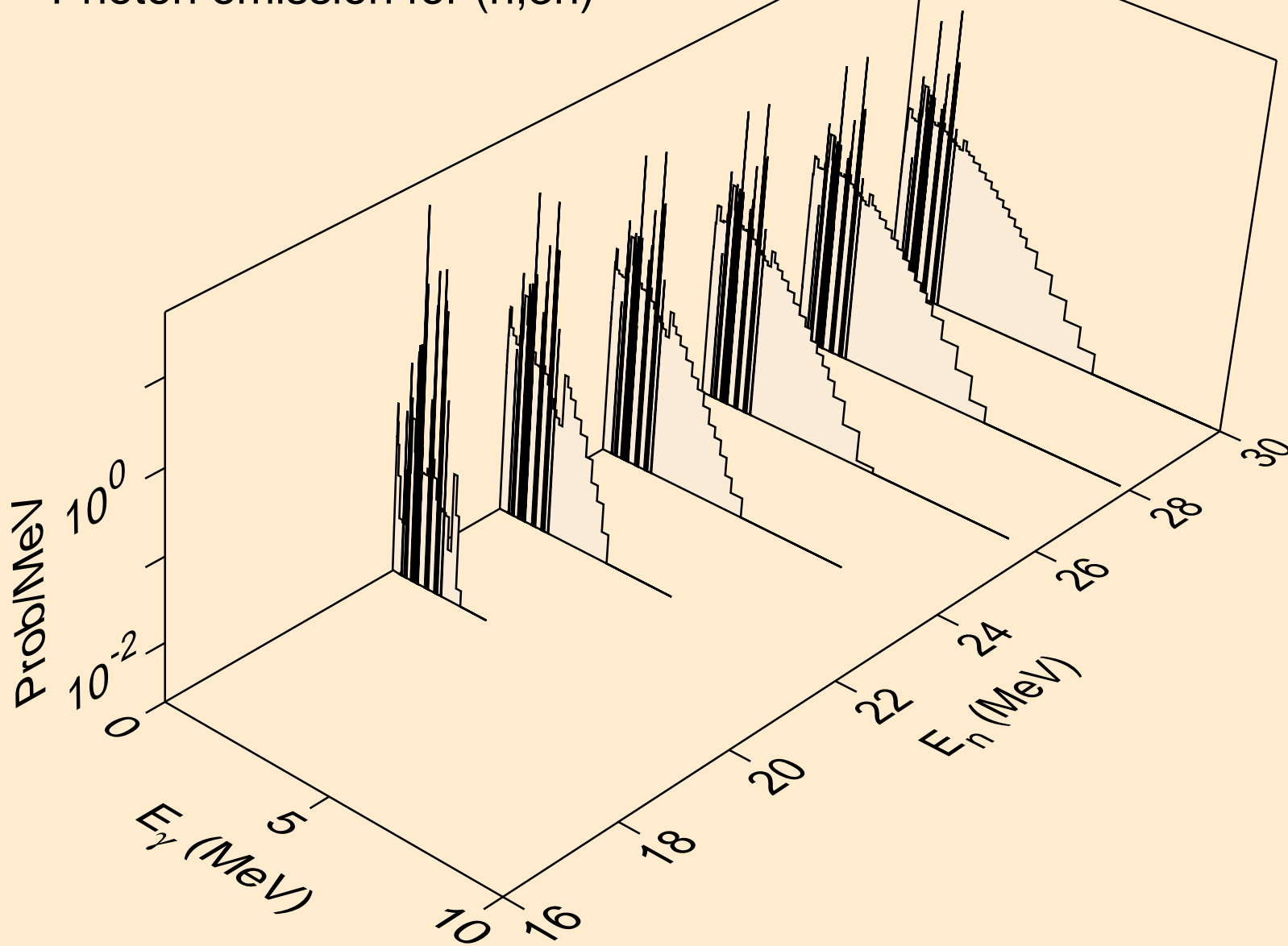


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)

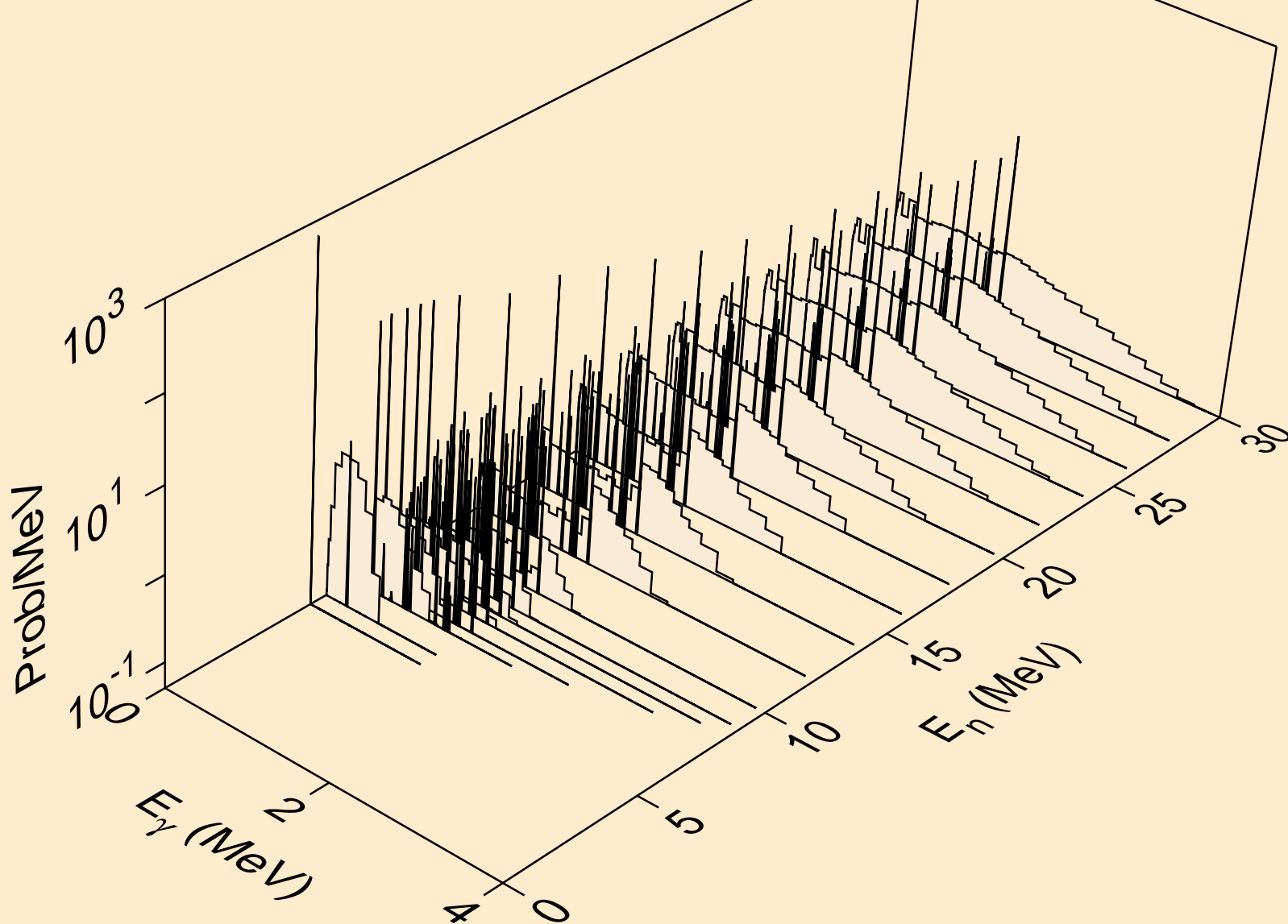




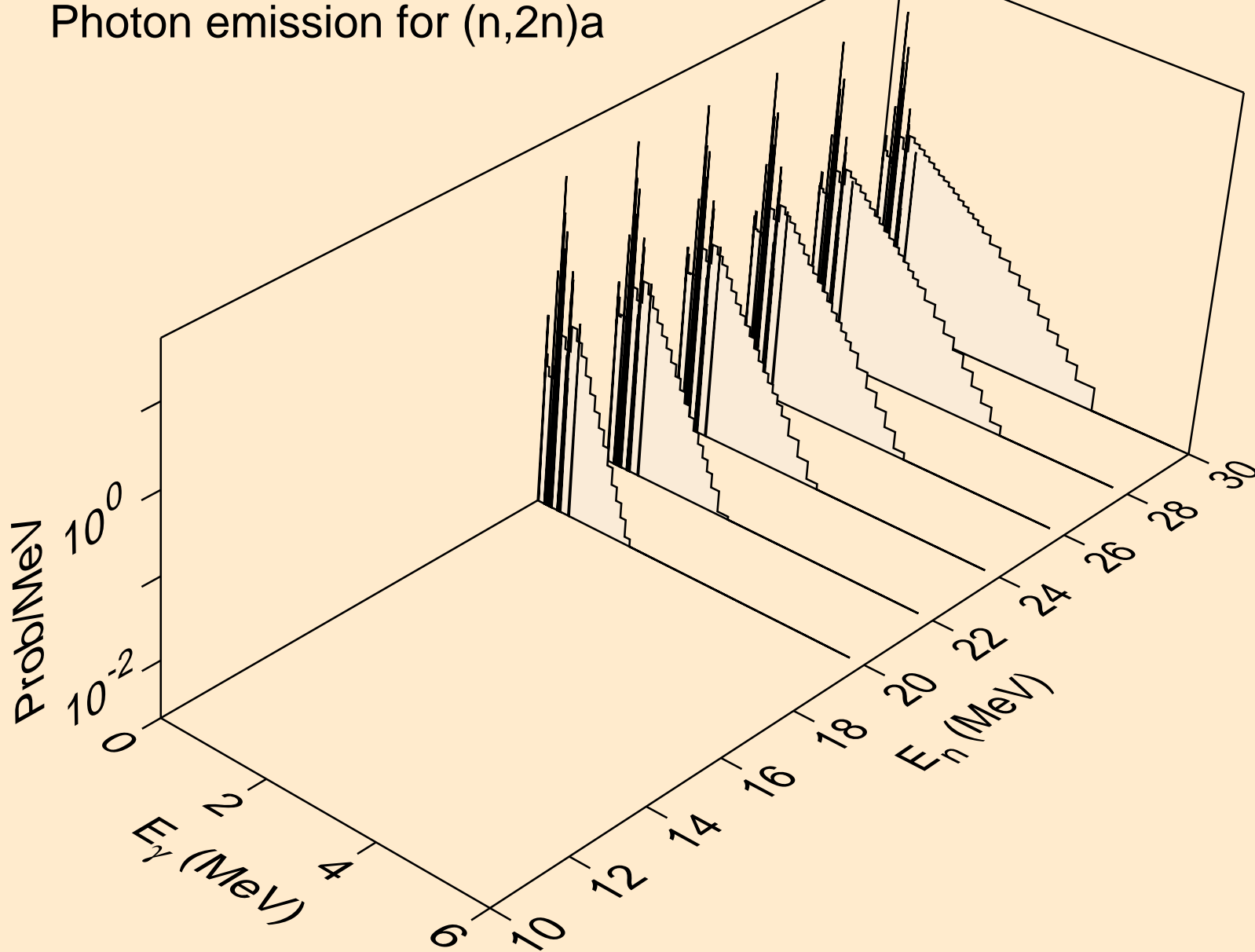
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Photon emission for (n,3n)



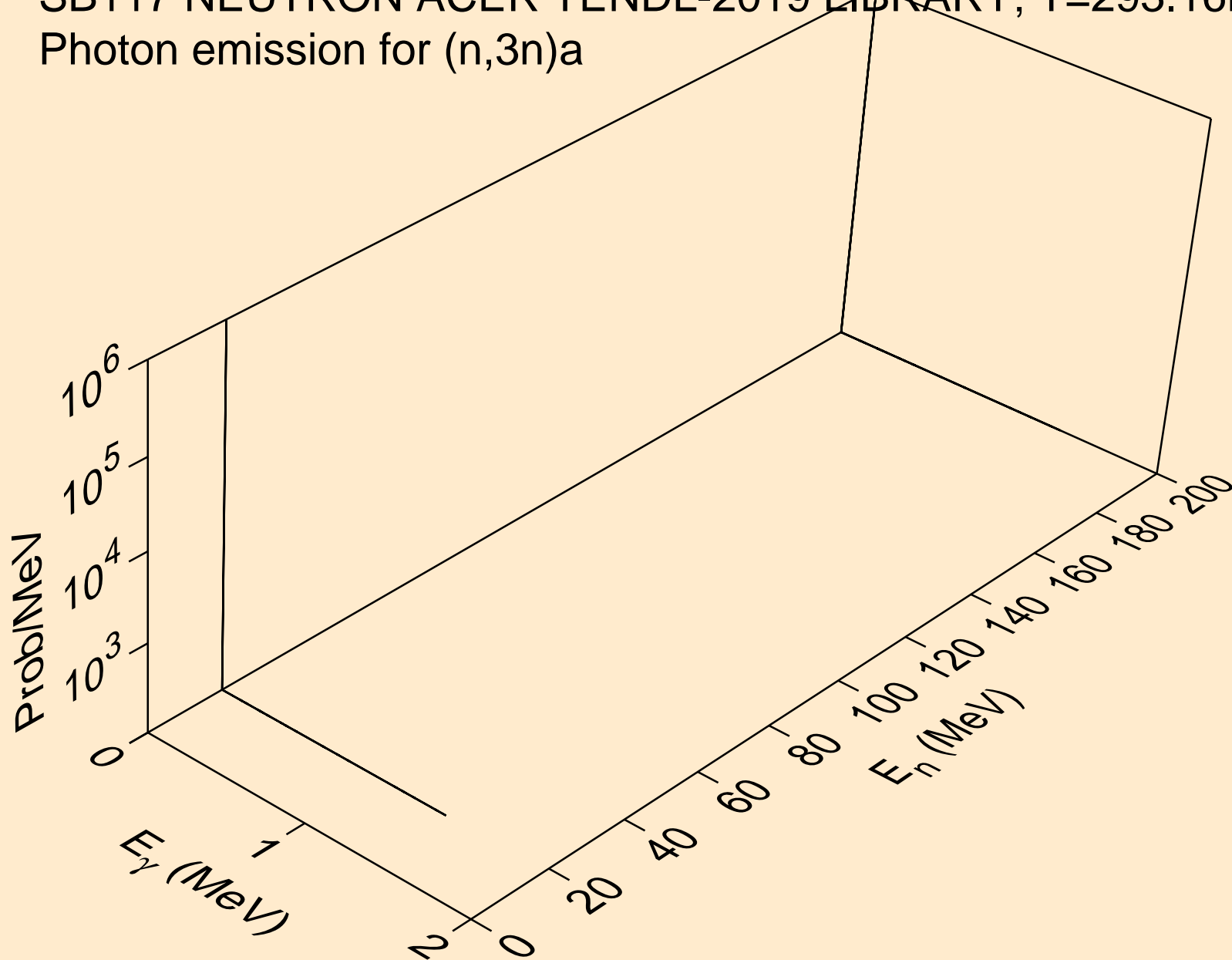
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Photon emission for (n,n\*)a



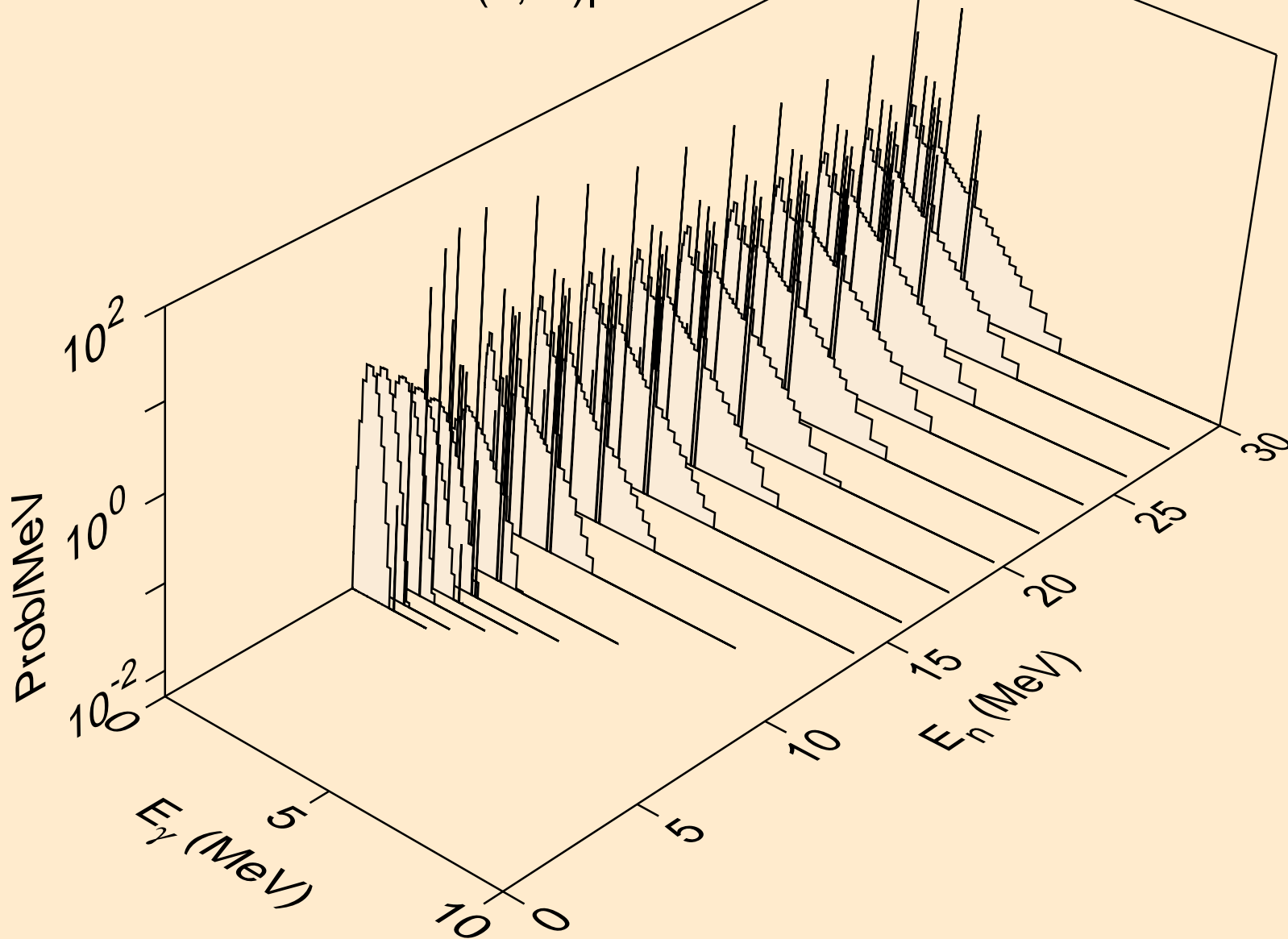
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Photon emission for (n,2n)a



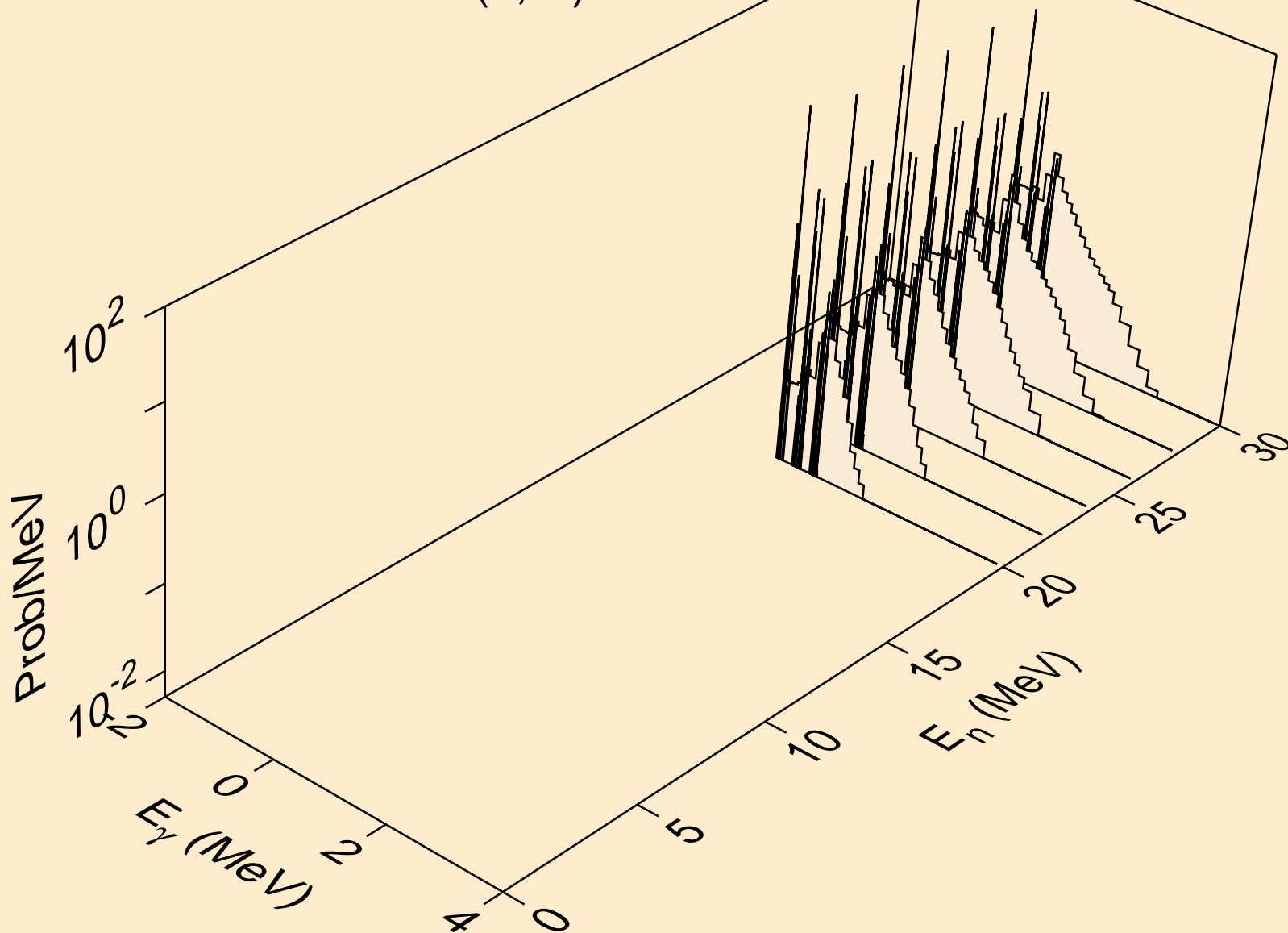
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Photon emission for (n,3n)a



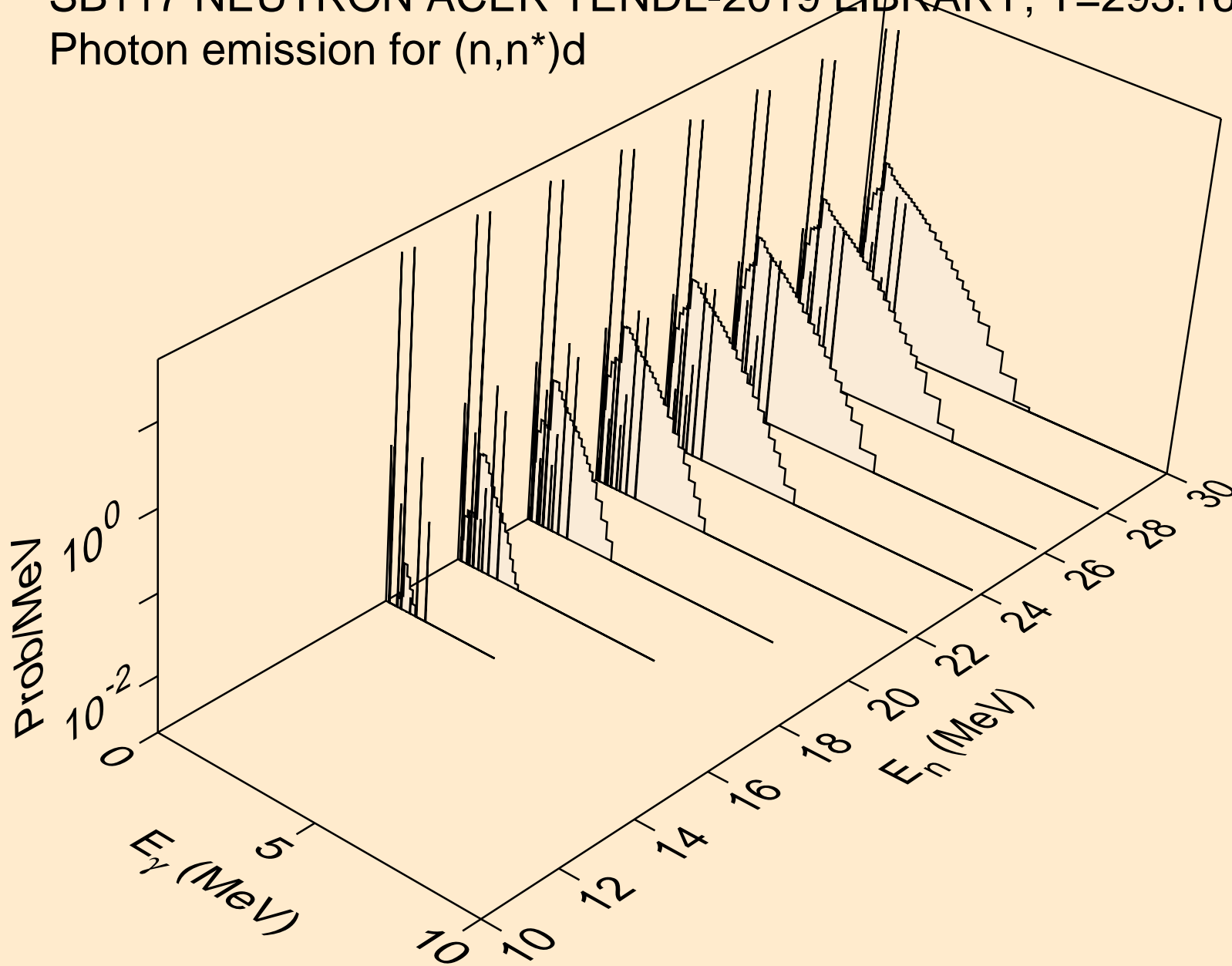
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Photon emission for (n,n\*)p



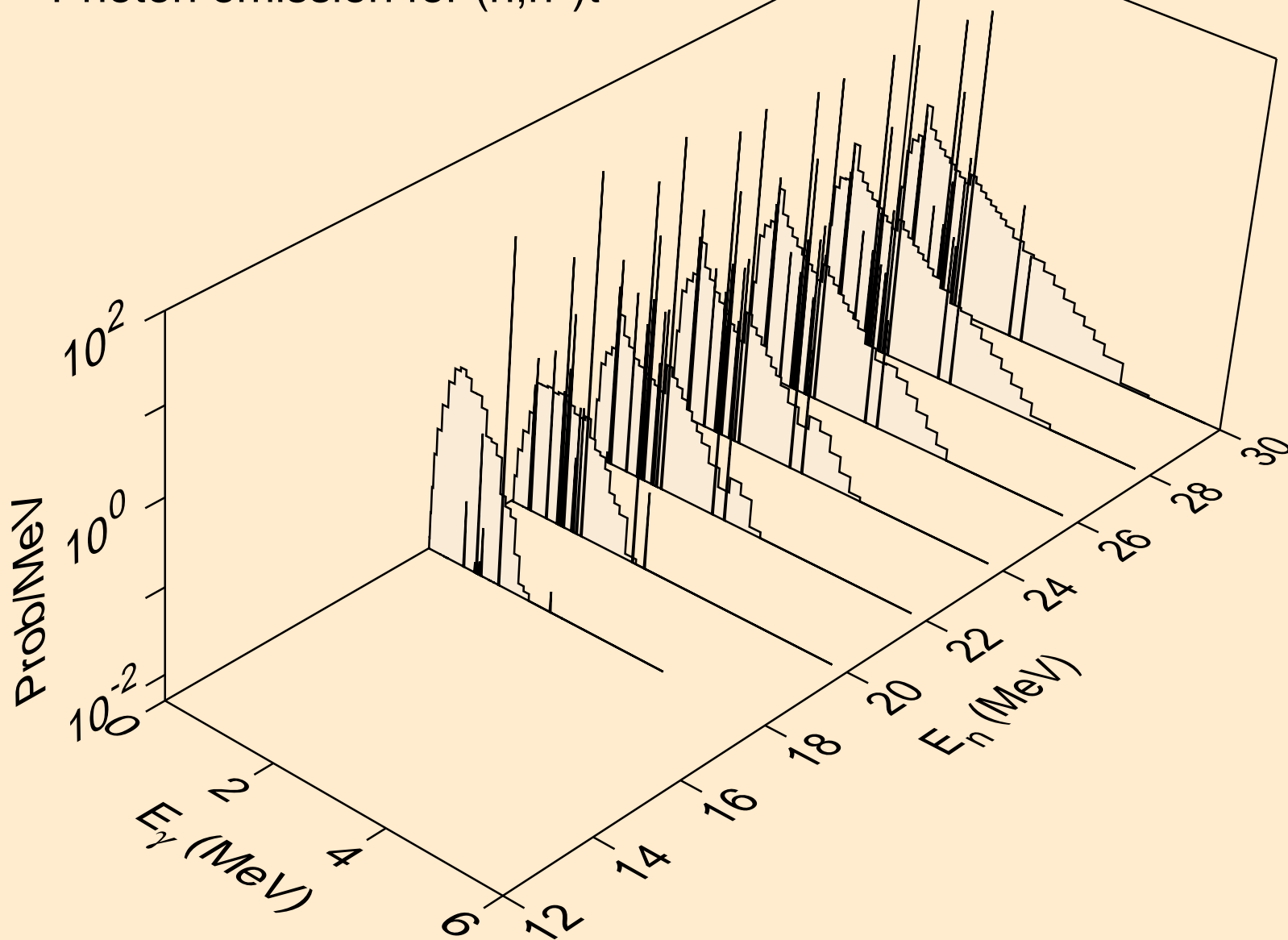
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)2a



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d

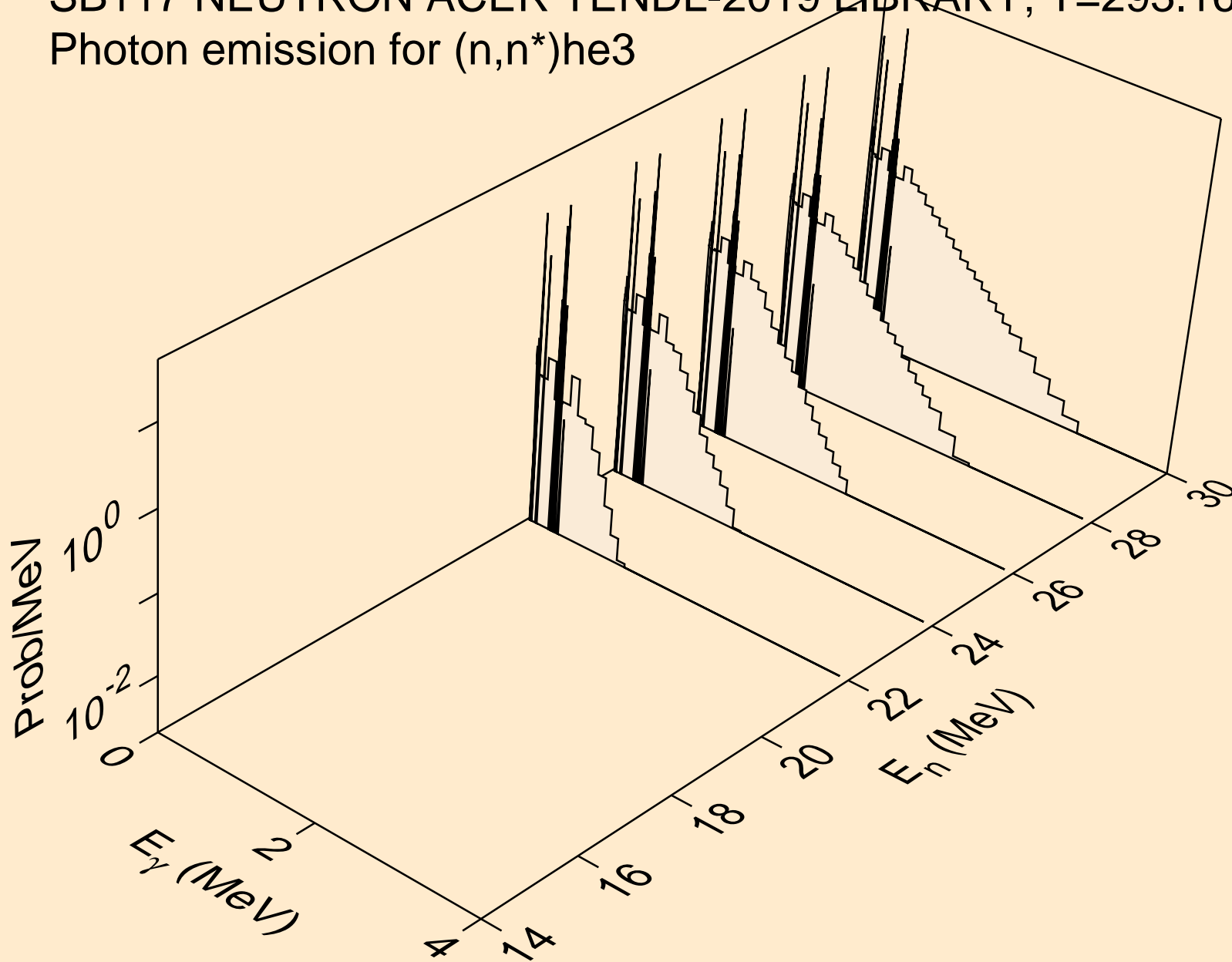


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t

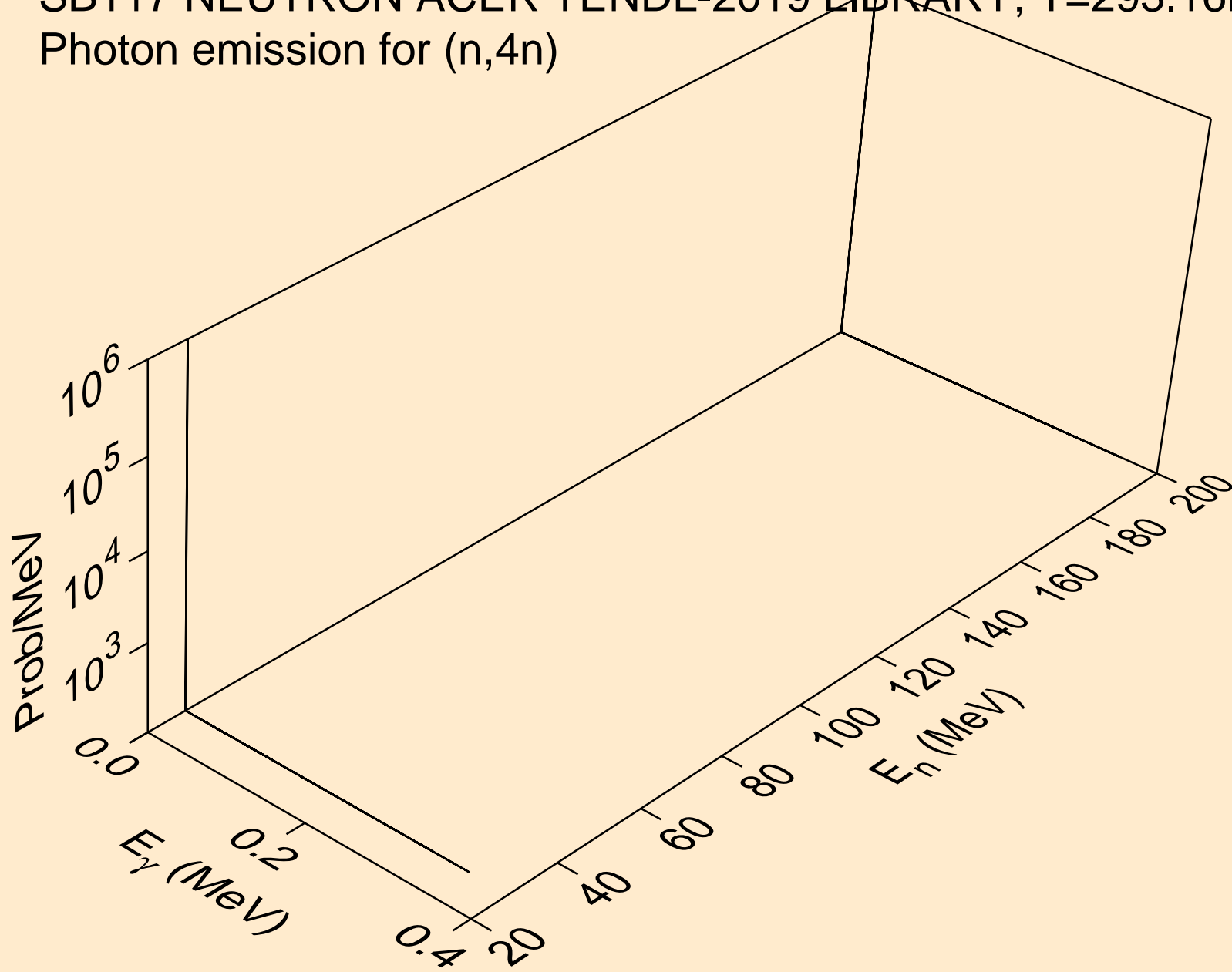




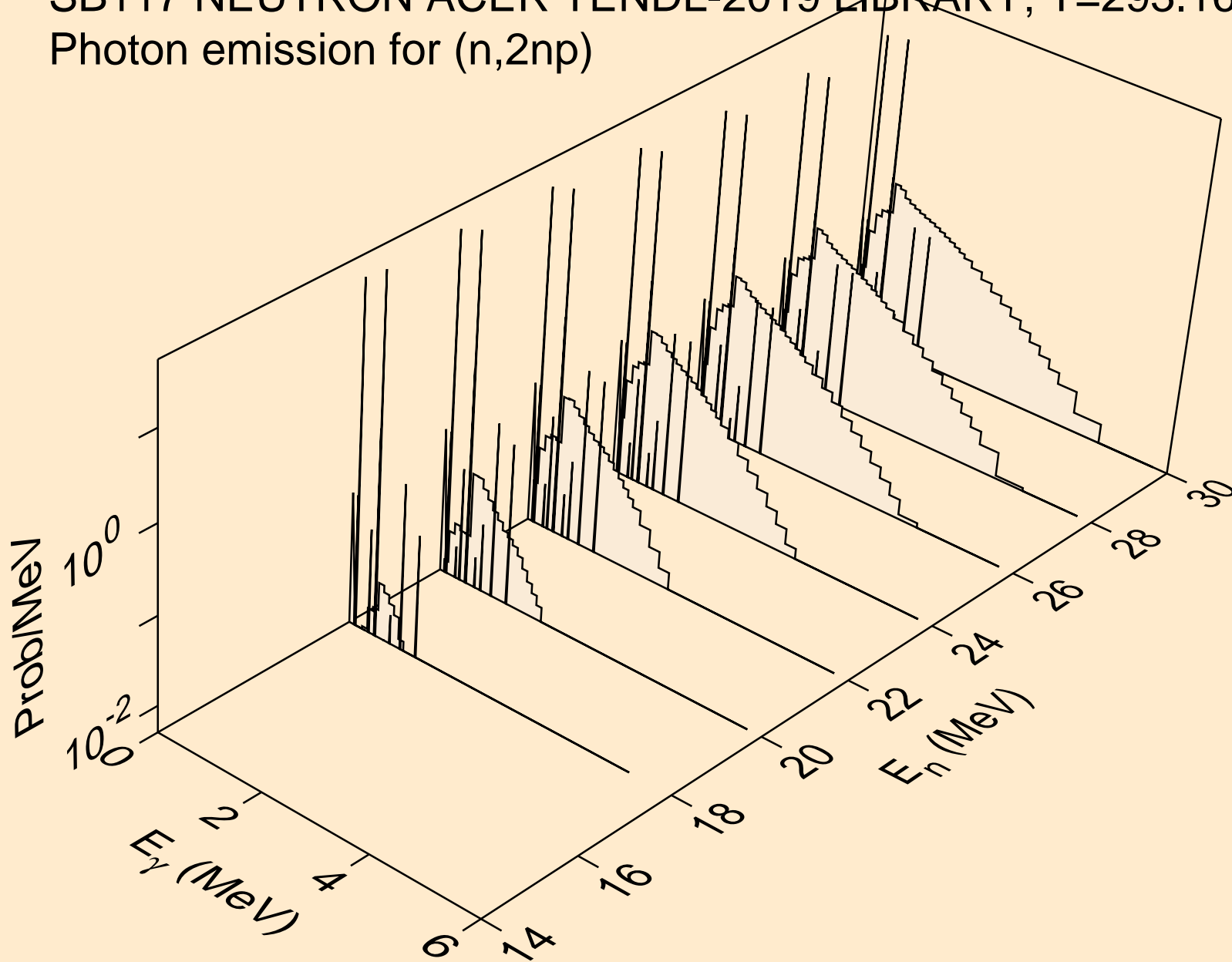
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Photon emission for (n,n\*)he3



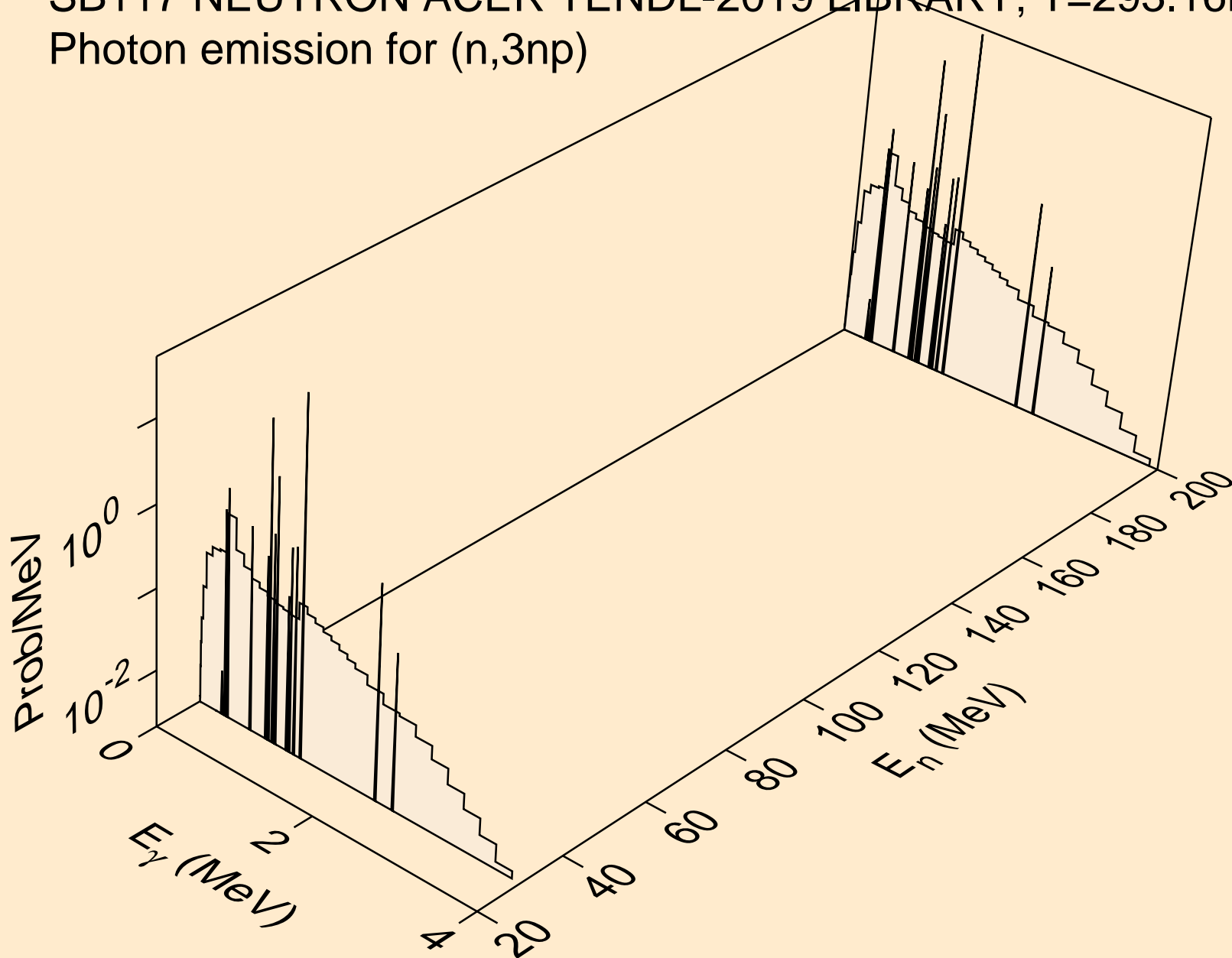
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Photon emission for (n,4n)



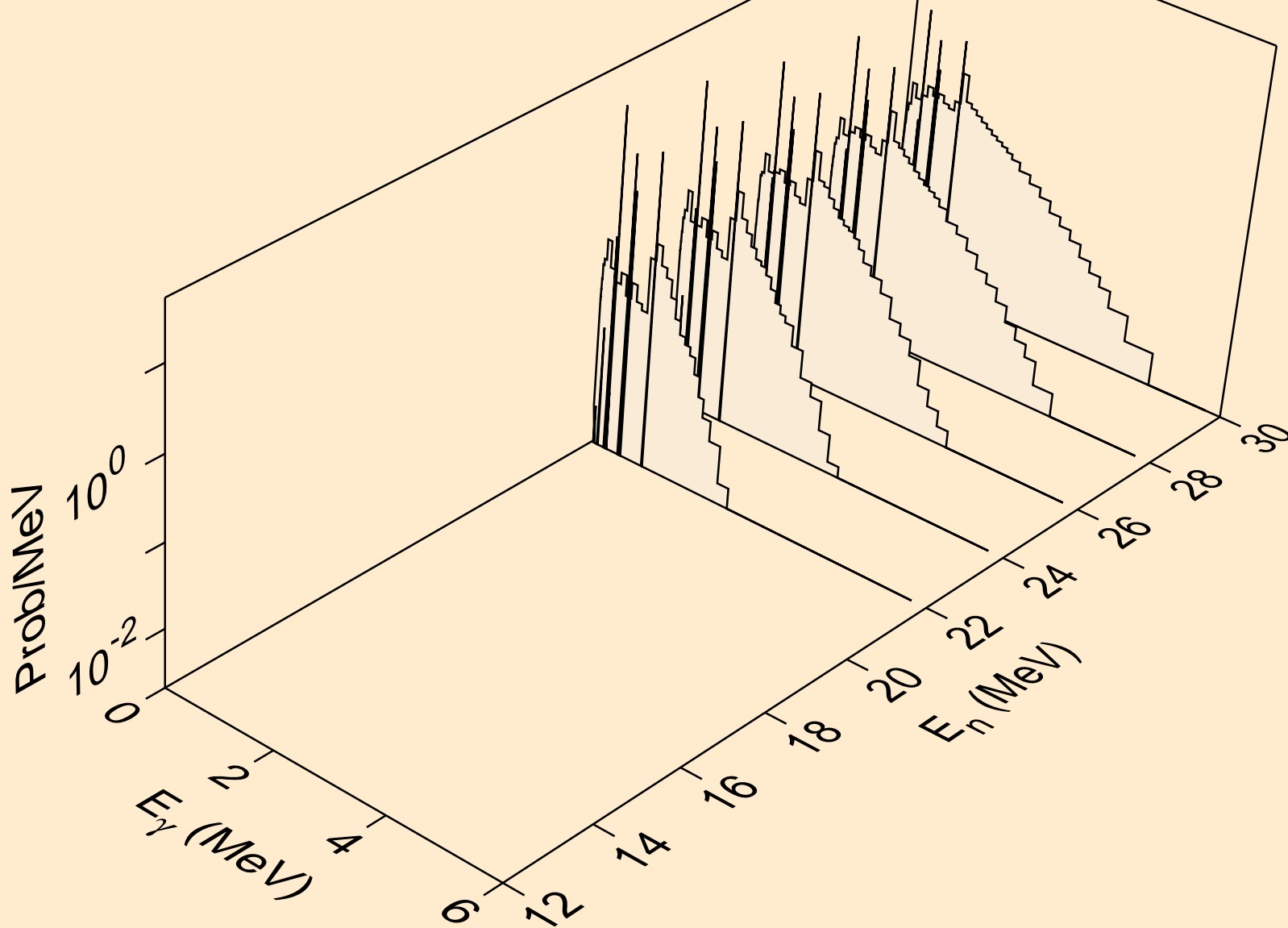
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Photon emission for (n,2np)



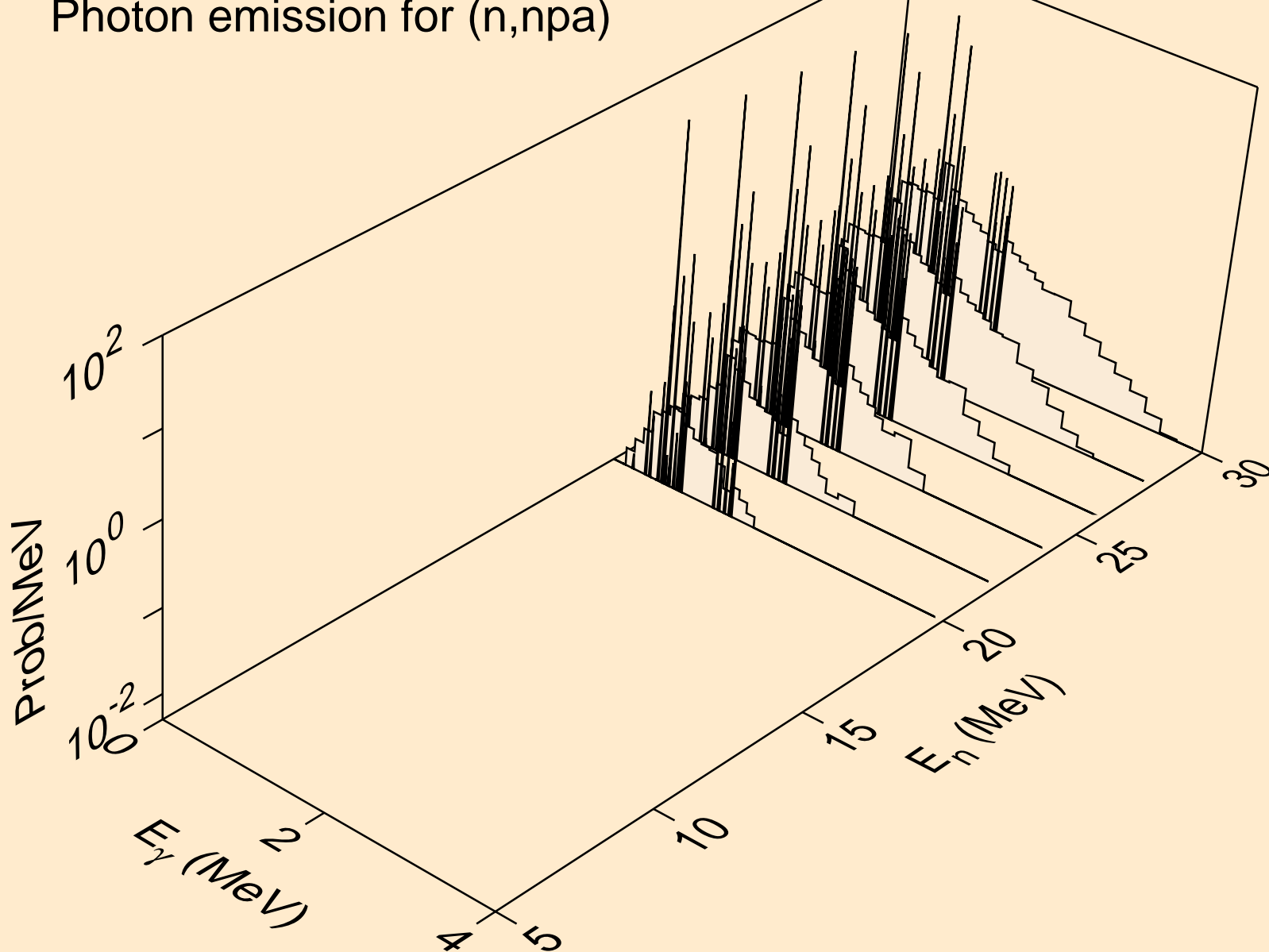
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Photon emission for (n,3np)



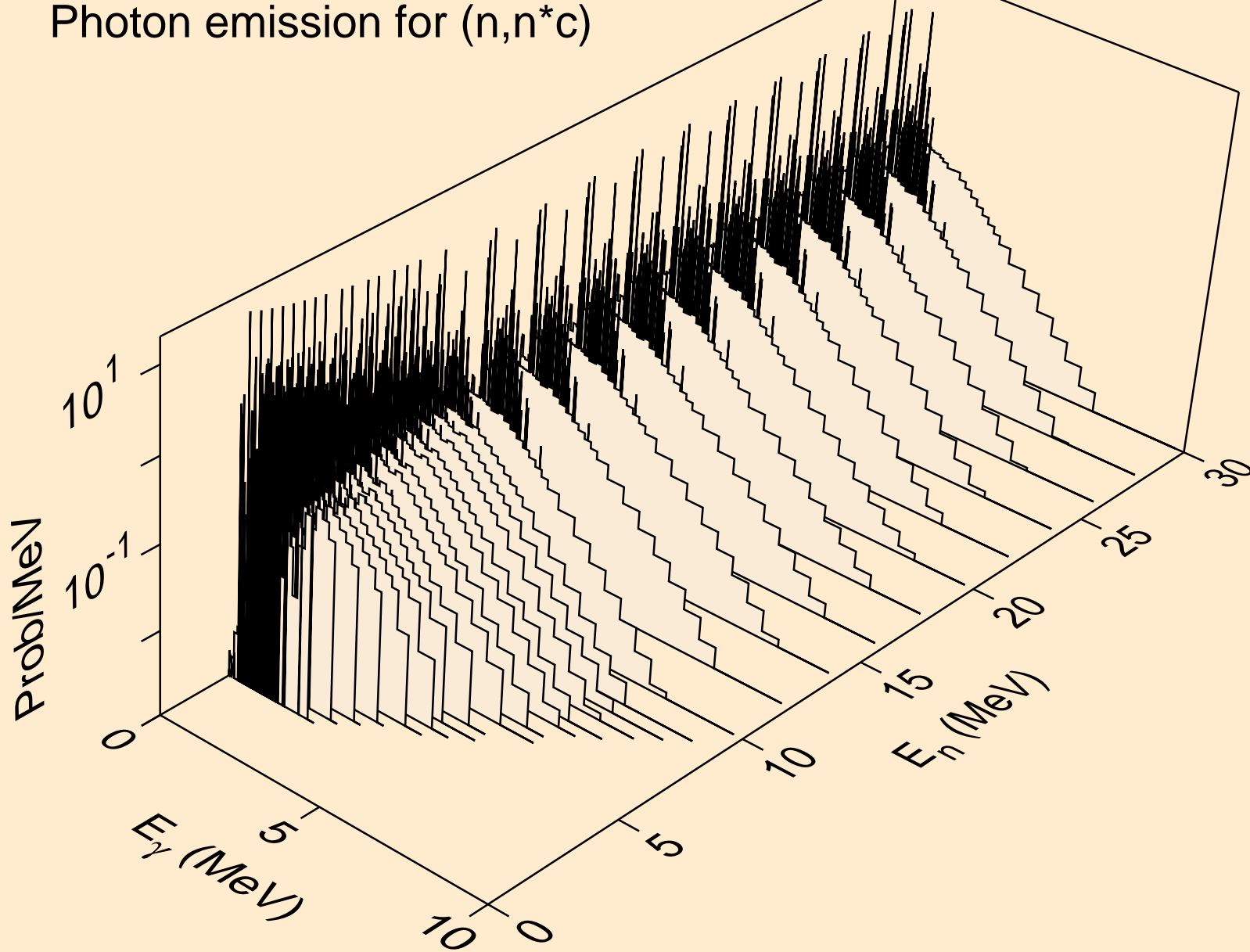
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Photon emission for (n,2np)



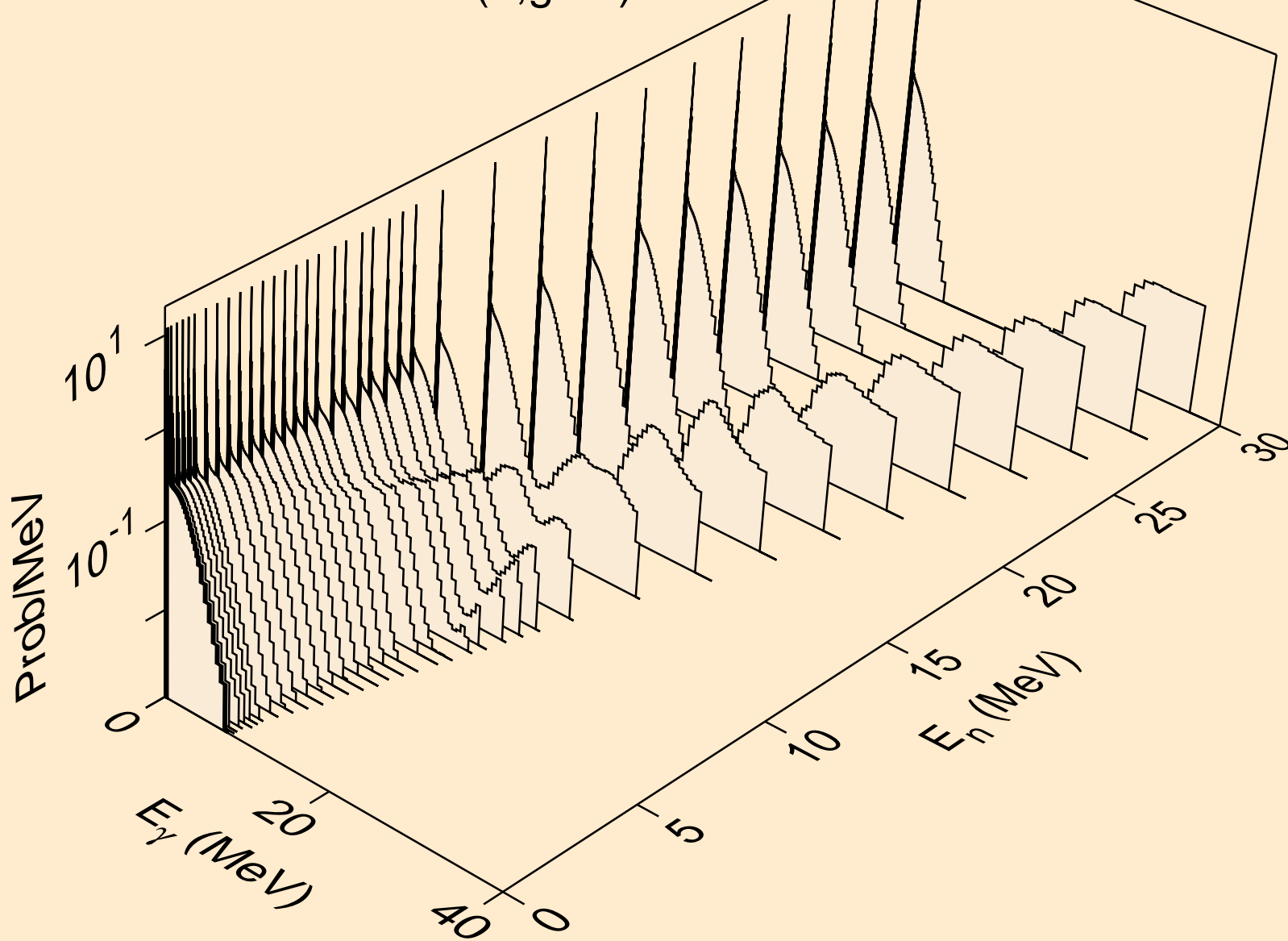
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,npa)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)

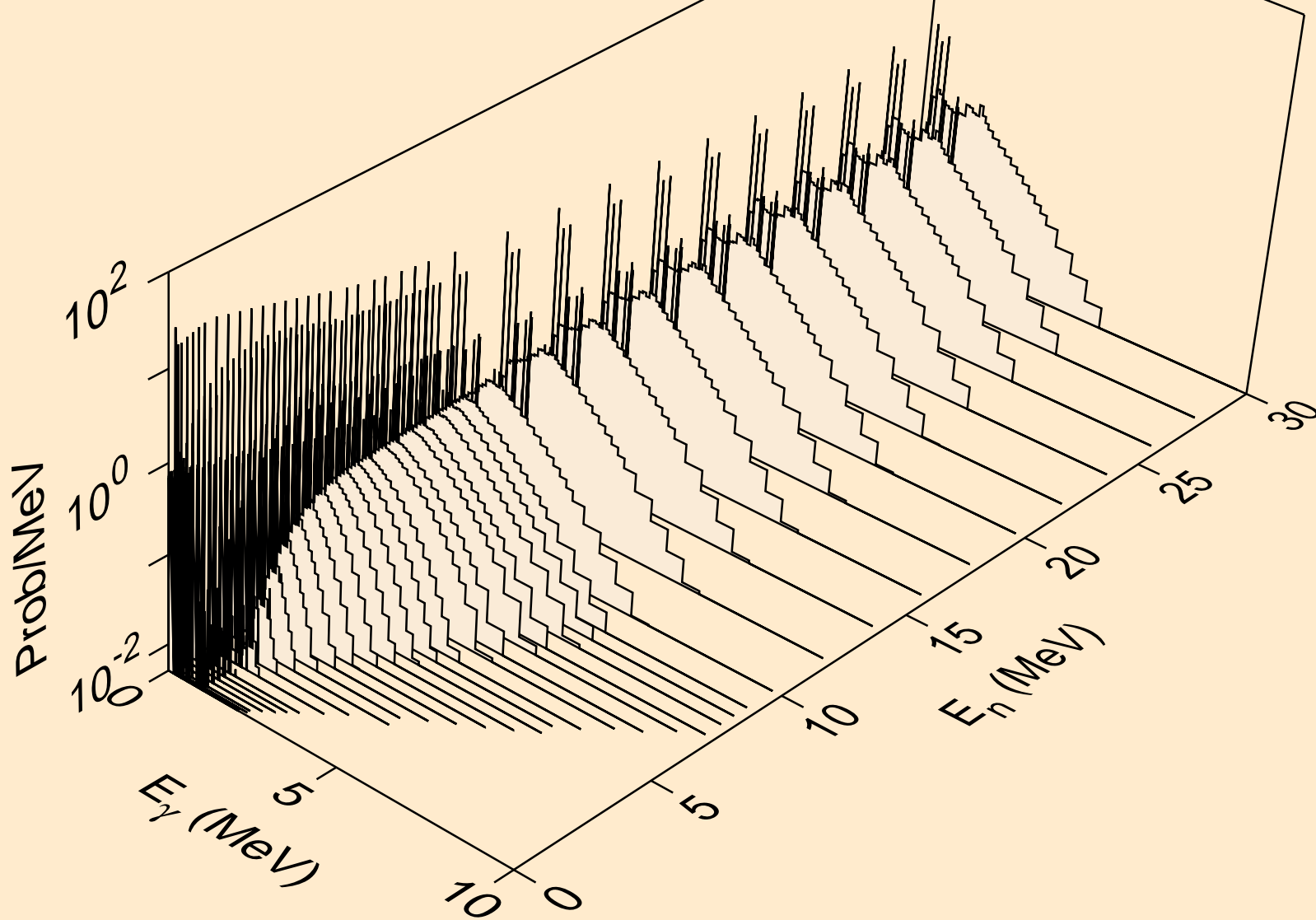


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)

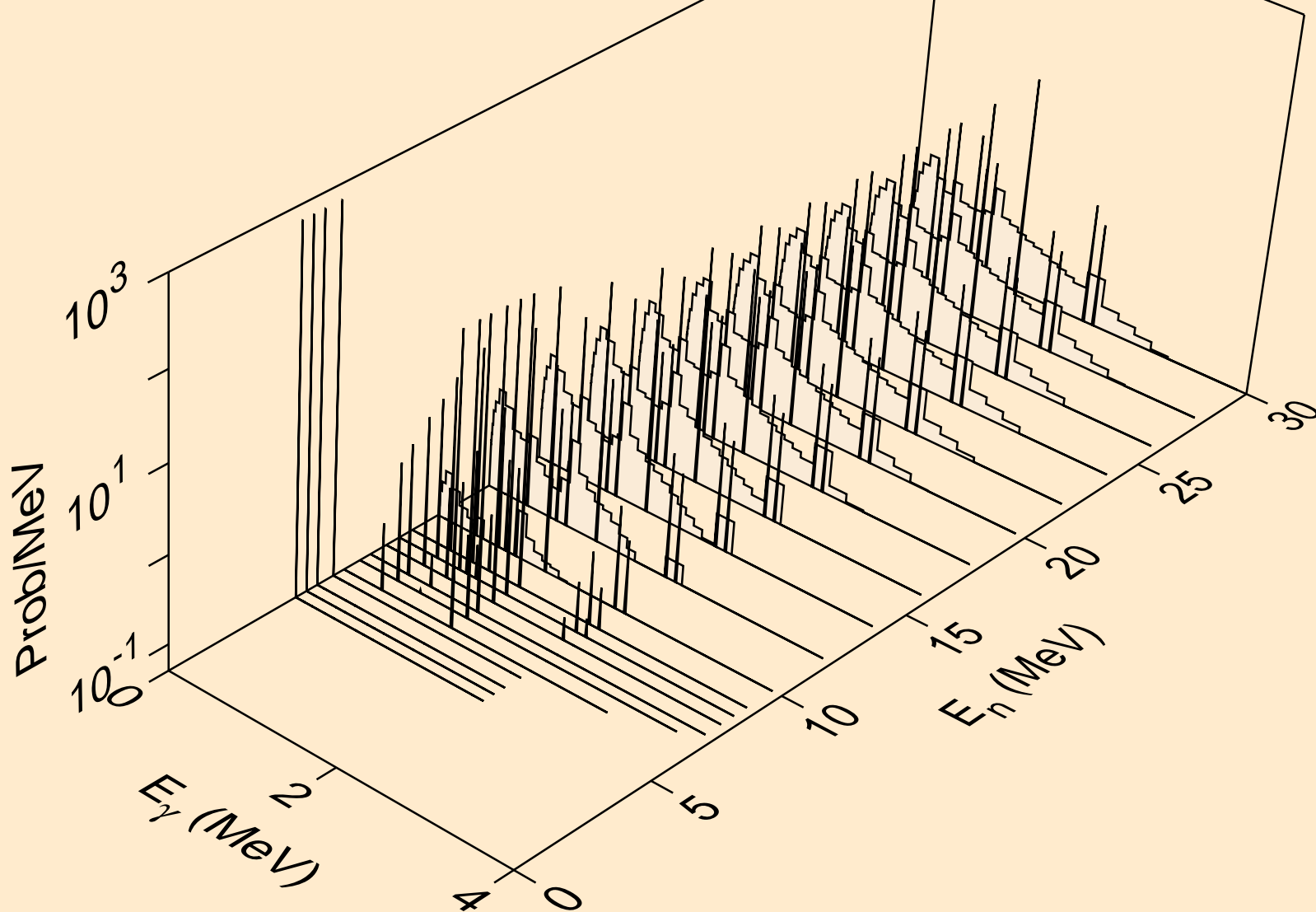




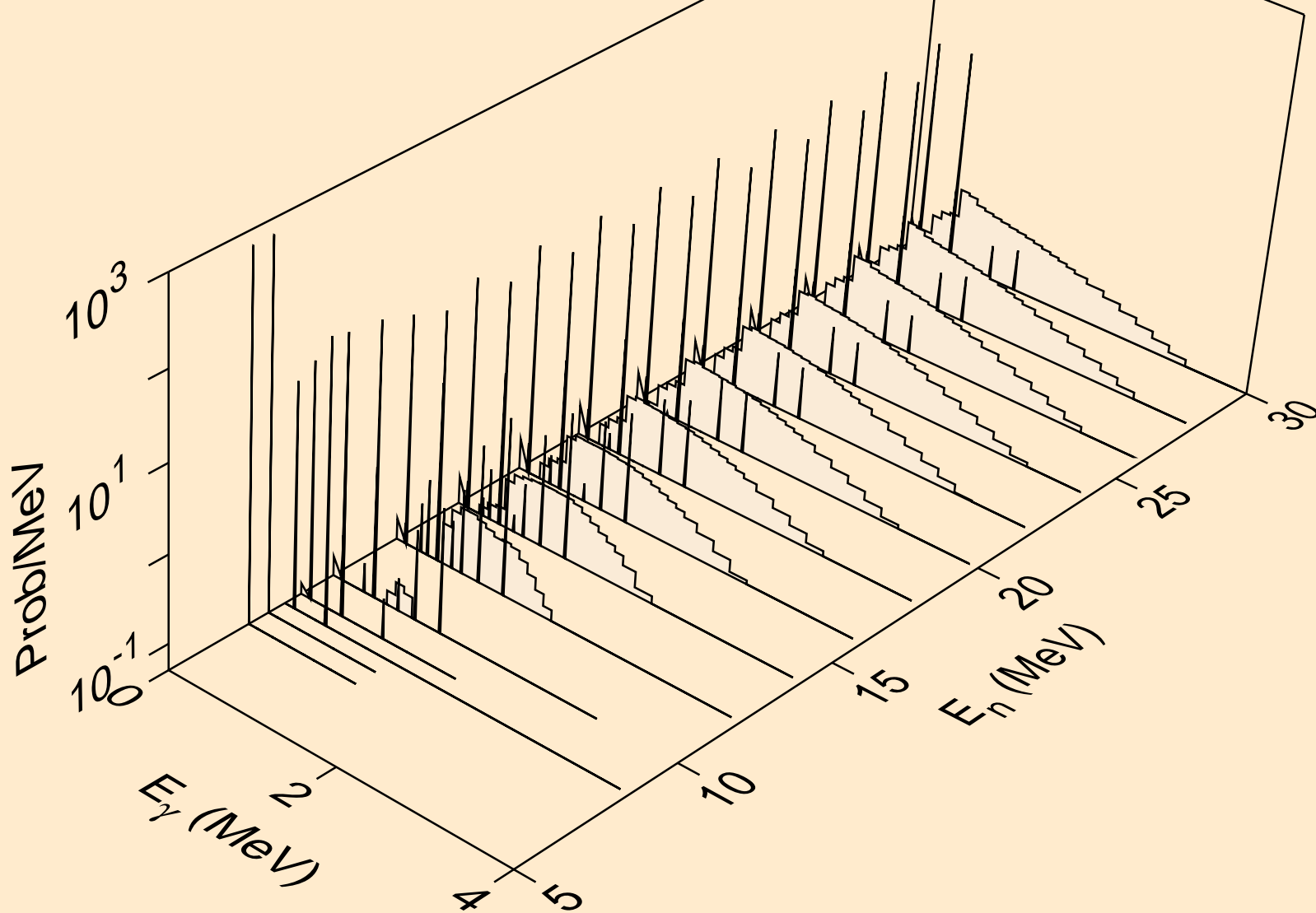
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Photon emission for (n,p)



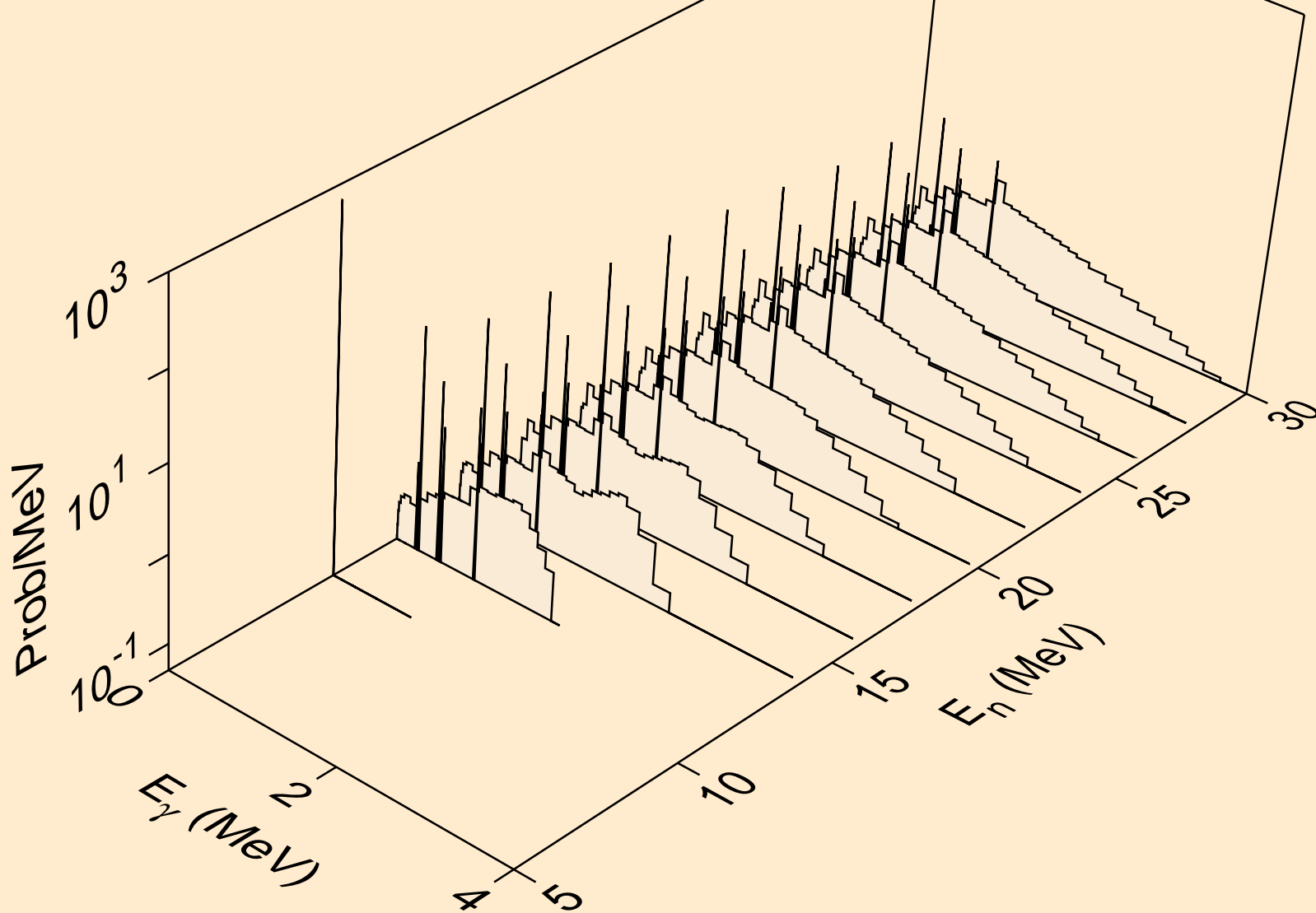
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Photon emission for (n,d)



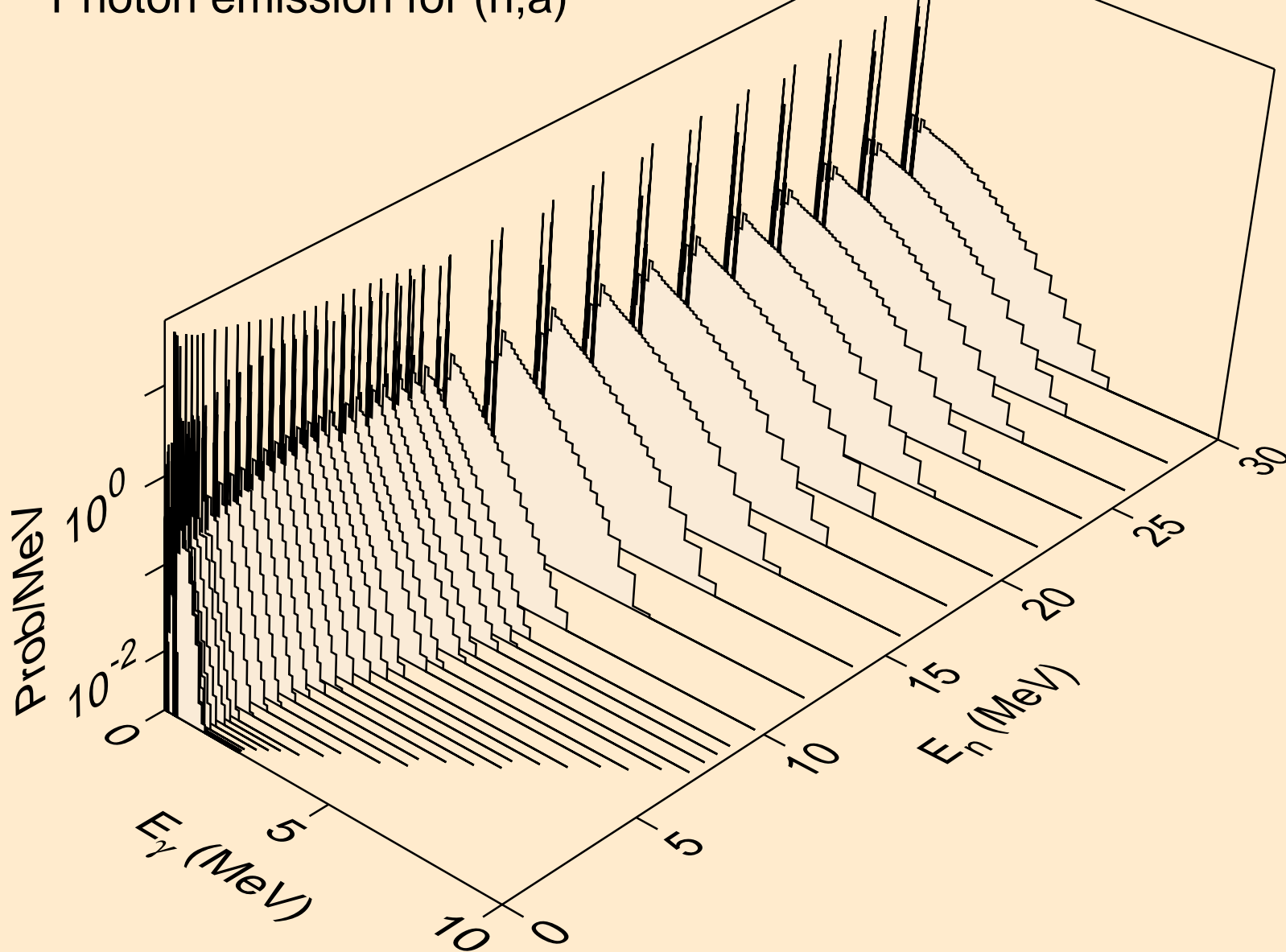
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Photon emission for (n,t)



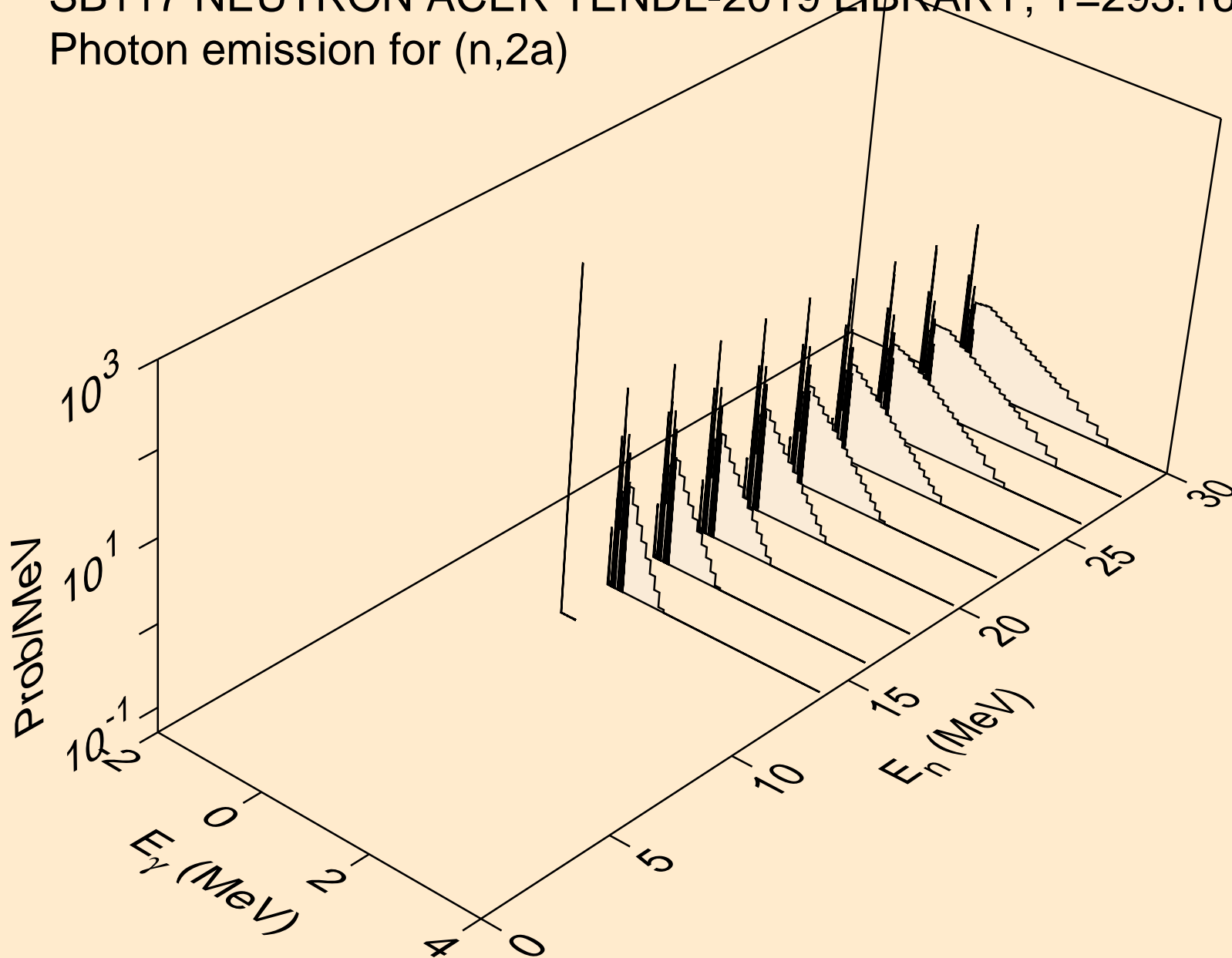
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Photon emission for (n,he3)



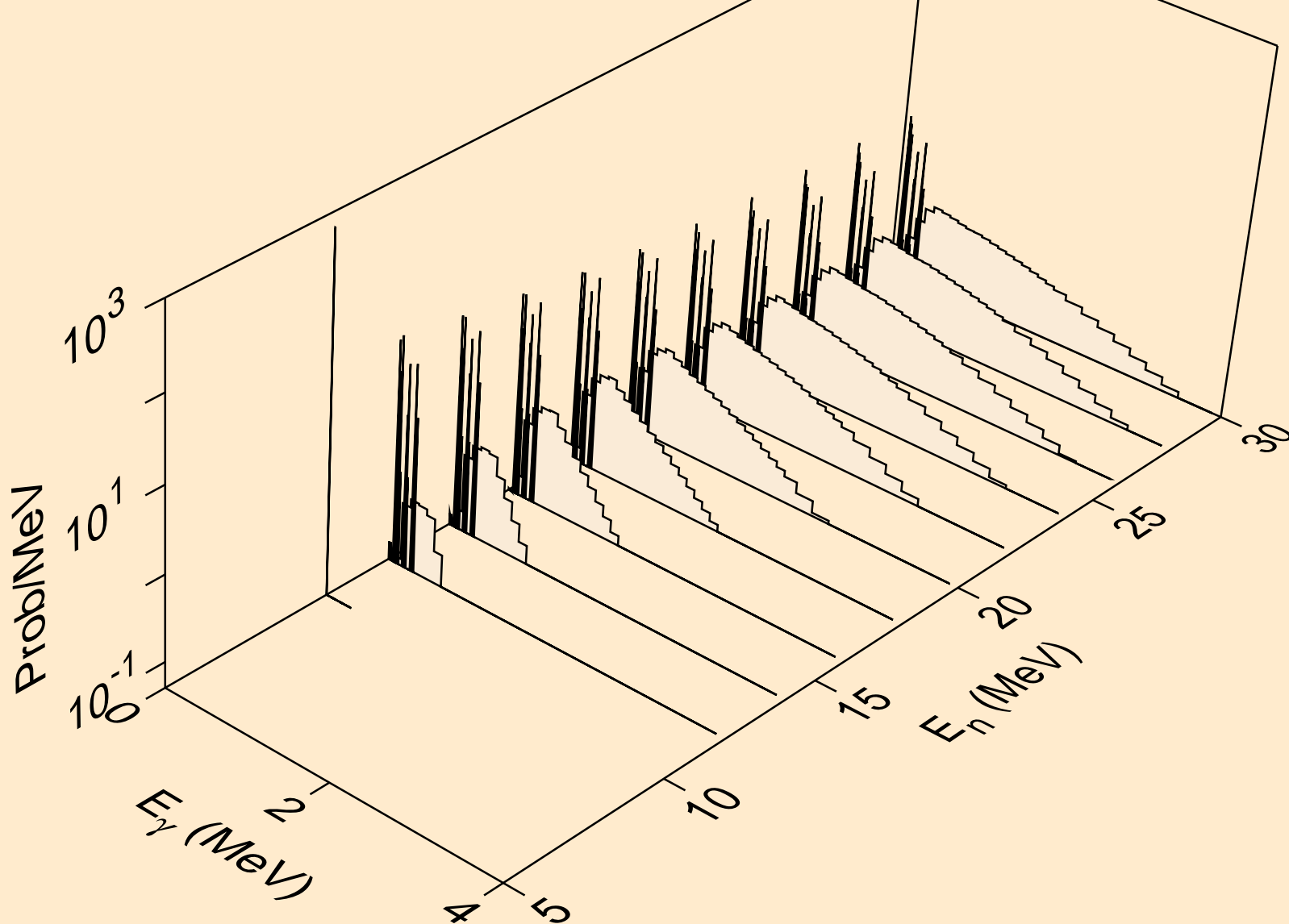
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Photon emission for (n,a)



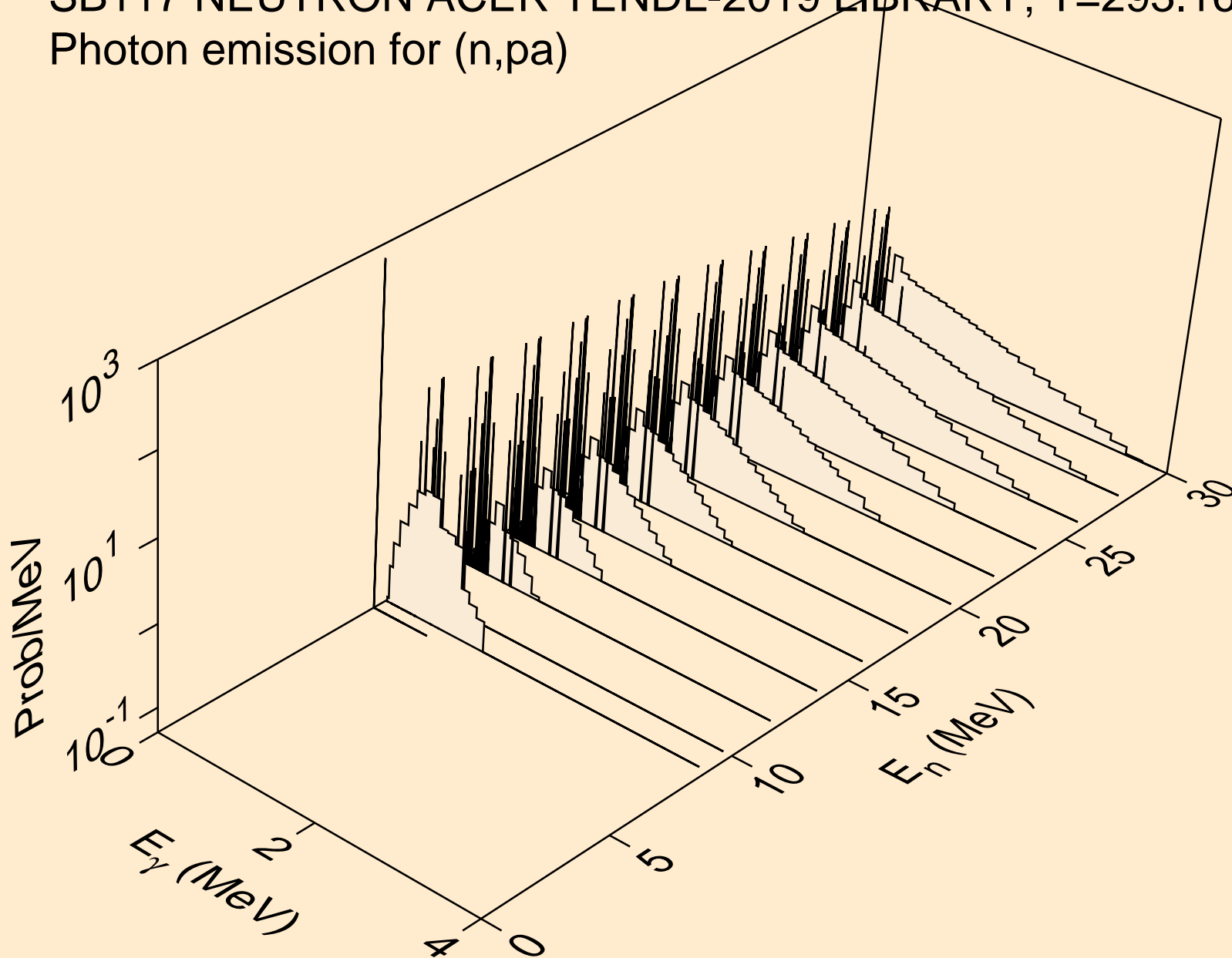
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Photon emission for (n,2a)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)

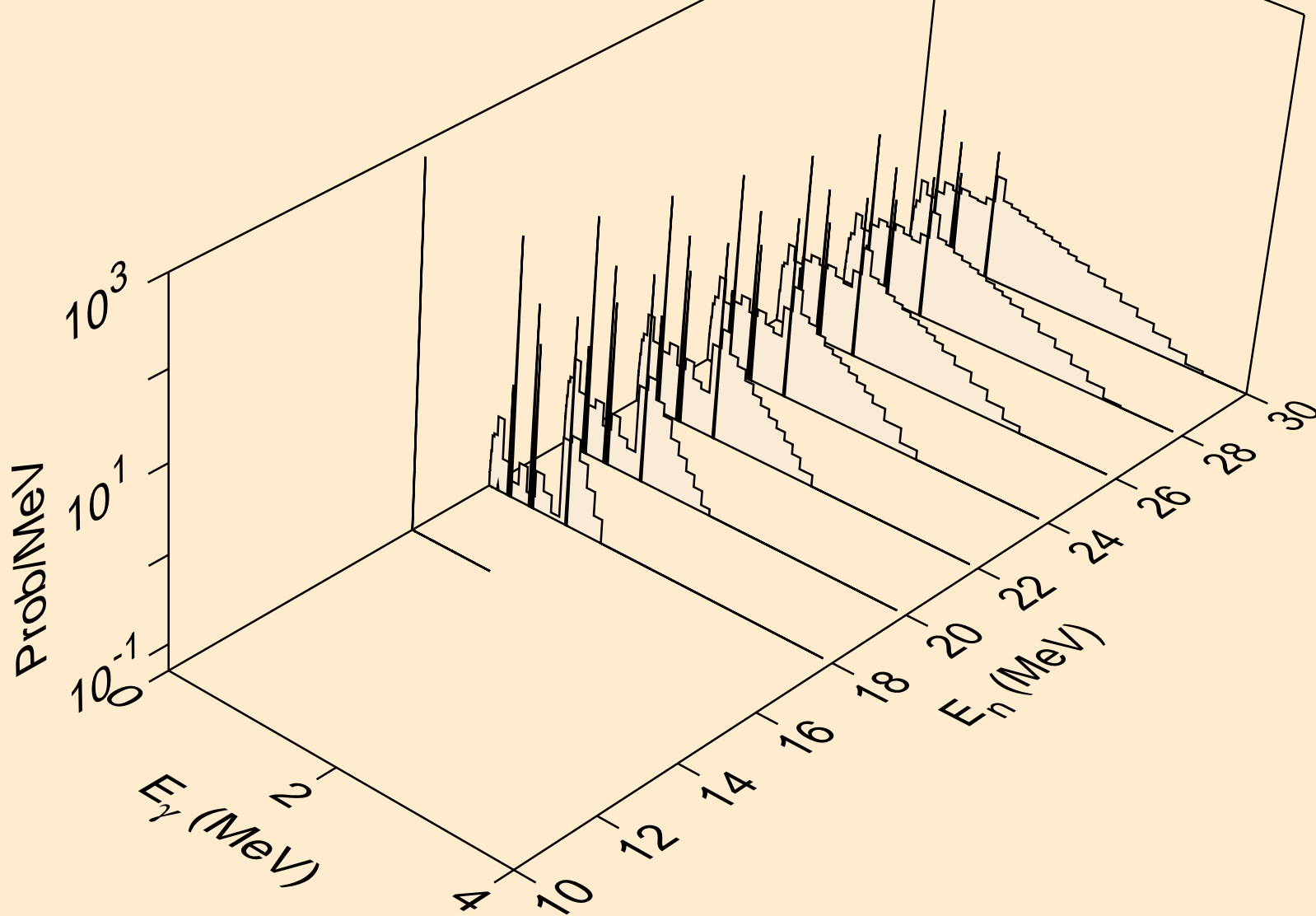


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )

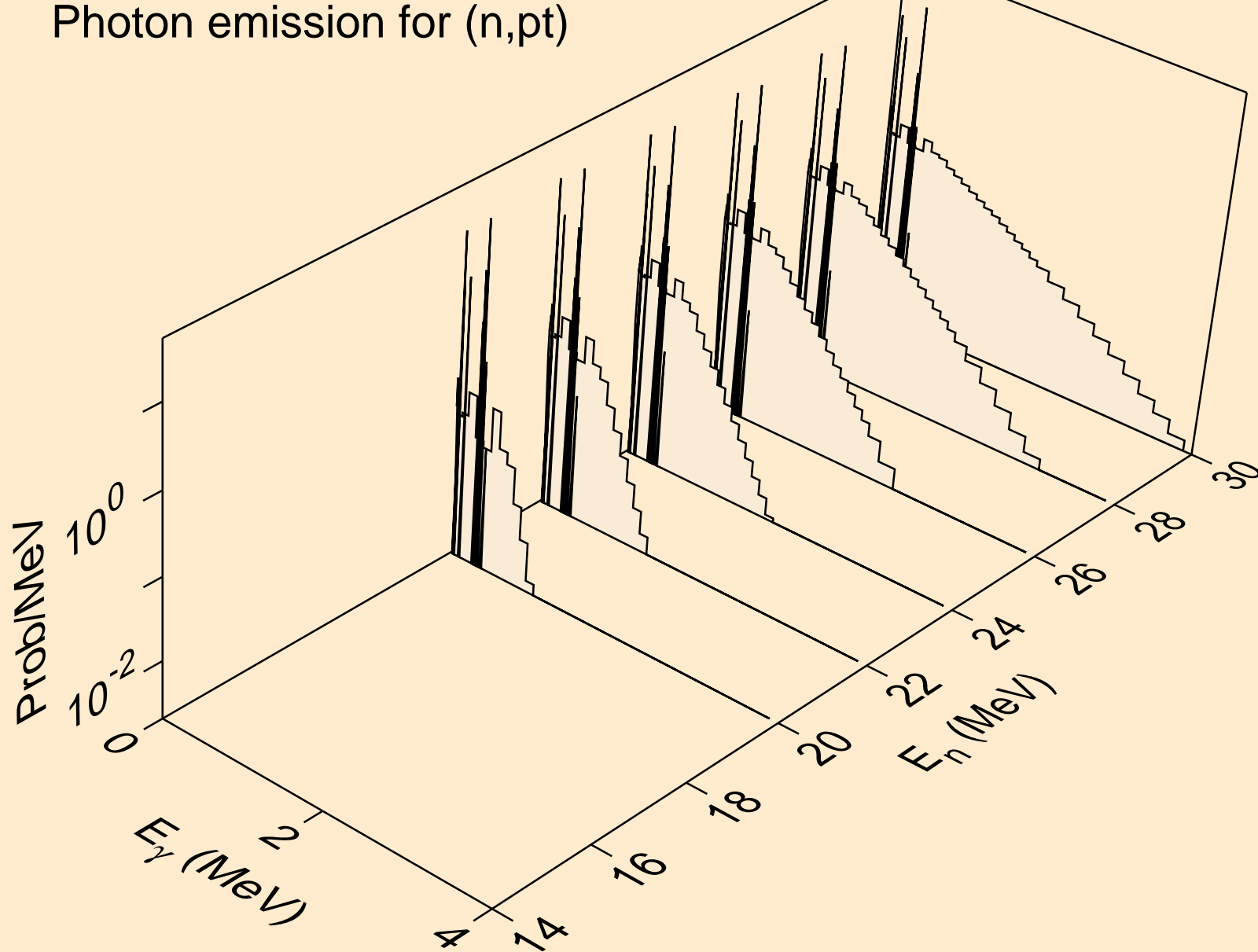




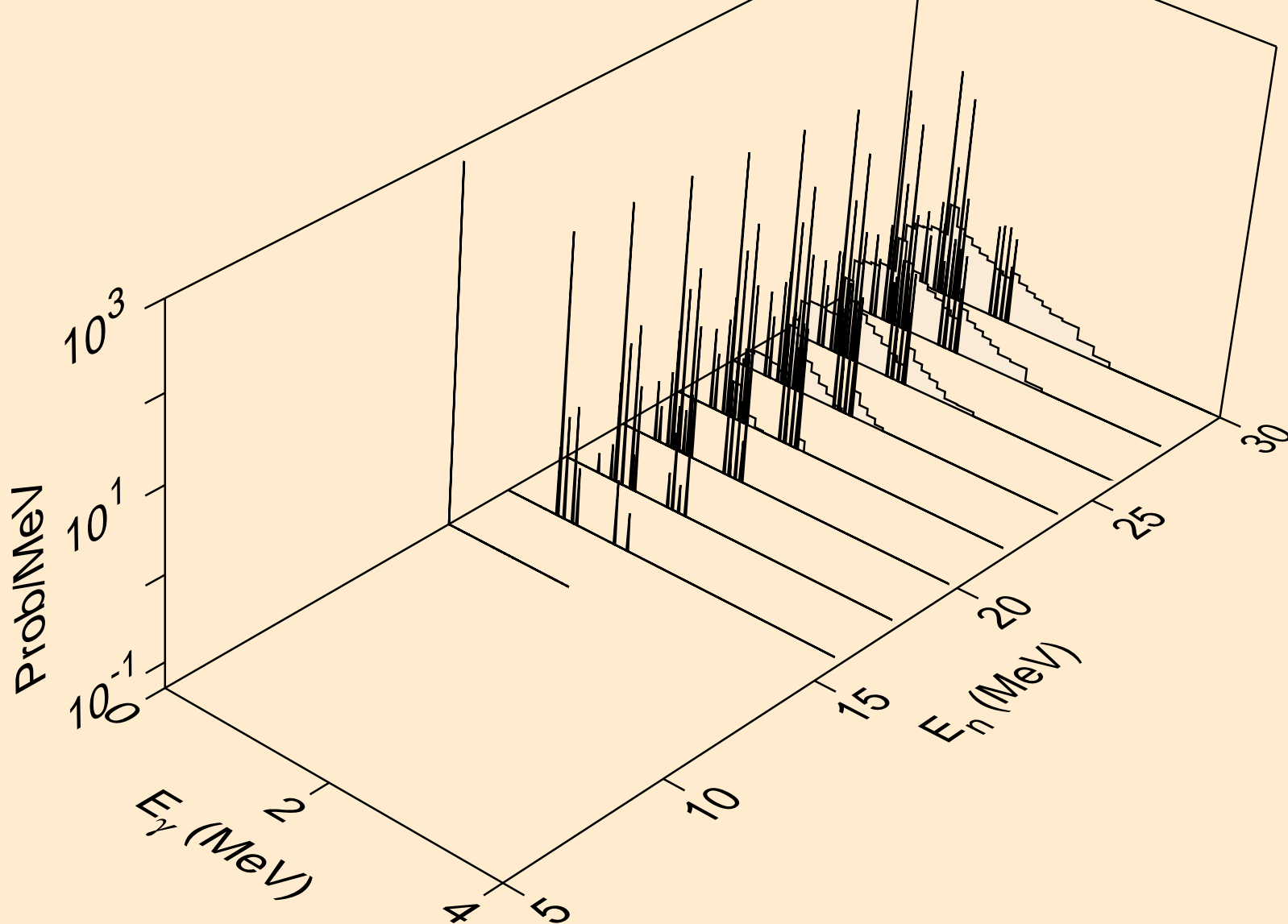
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Photon emission for (n,pd)



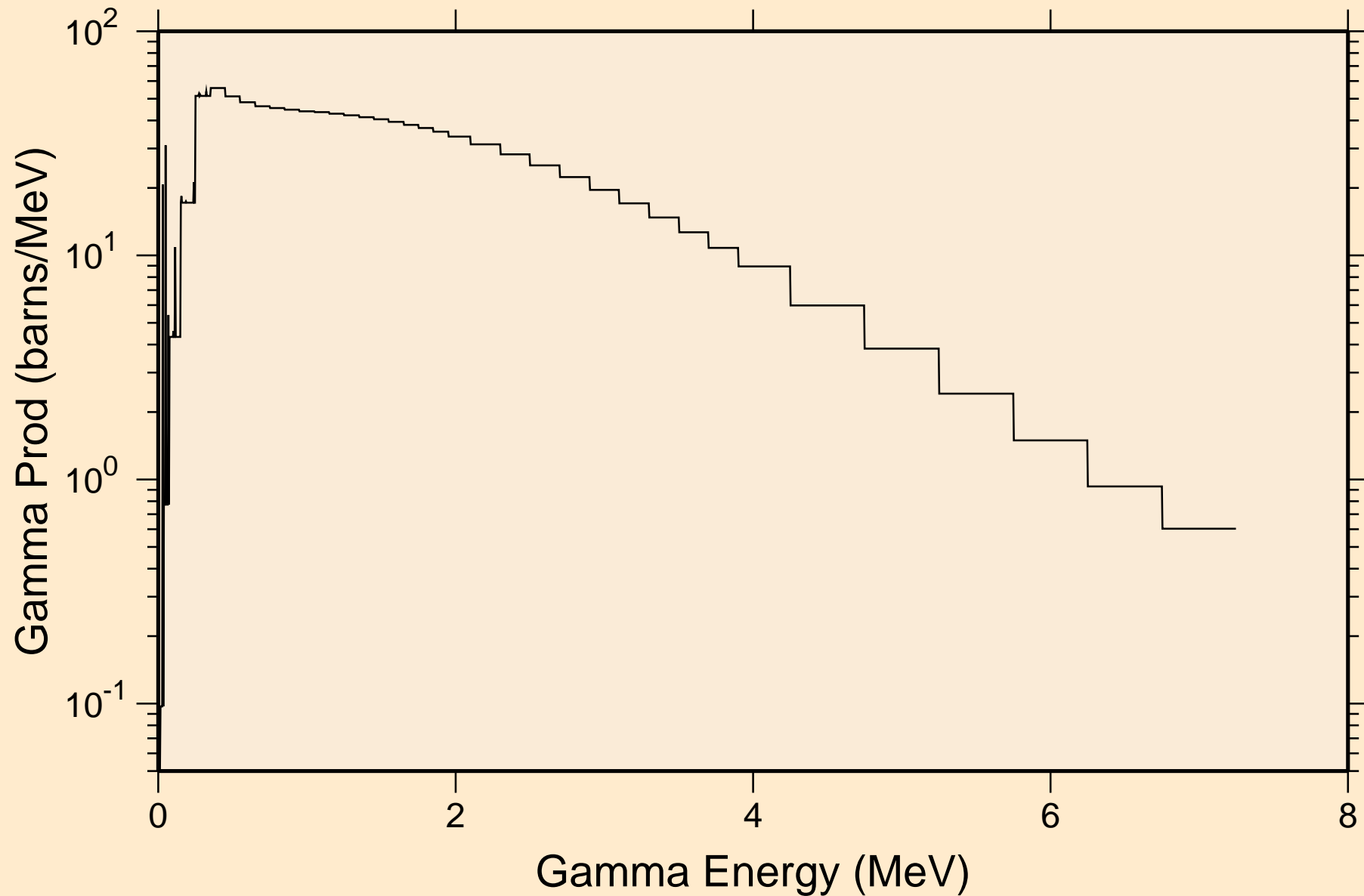
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Photon emission for (n,pt)



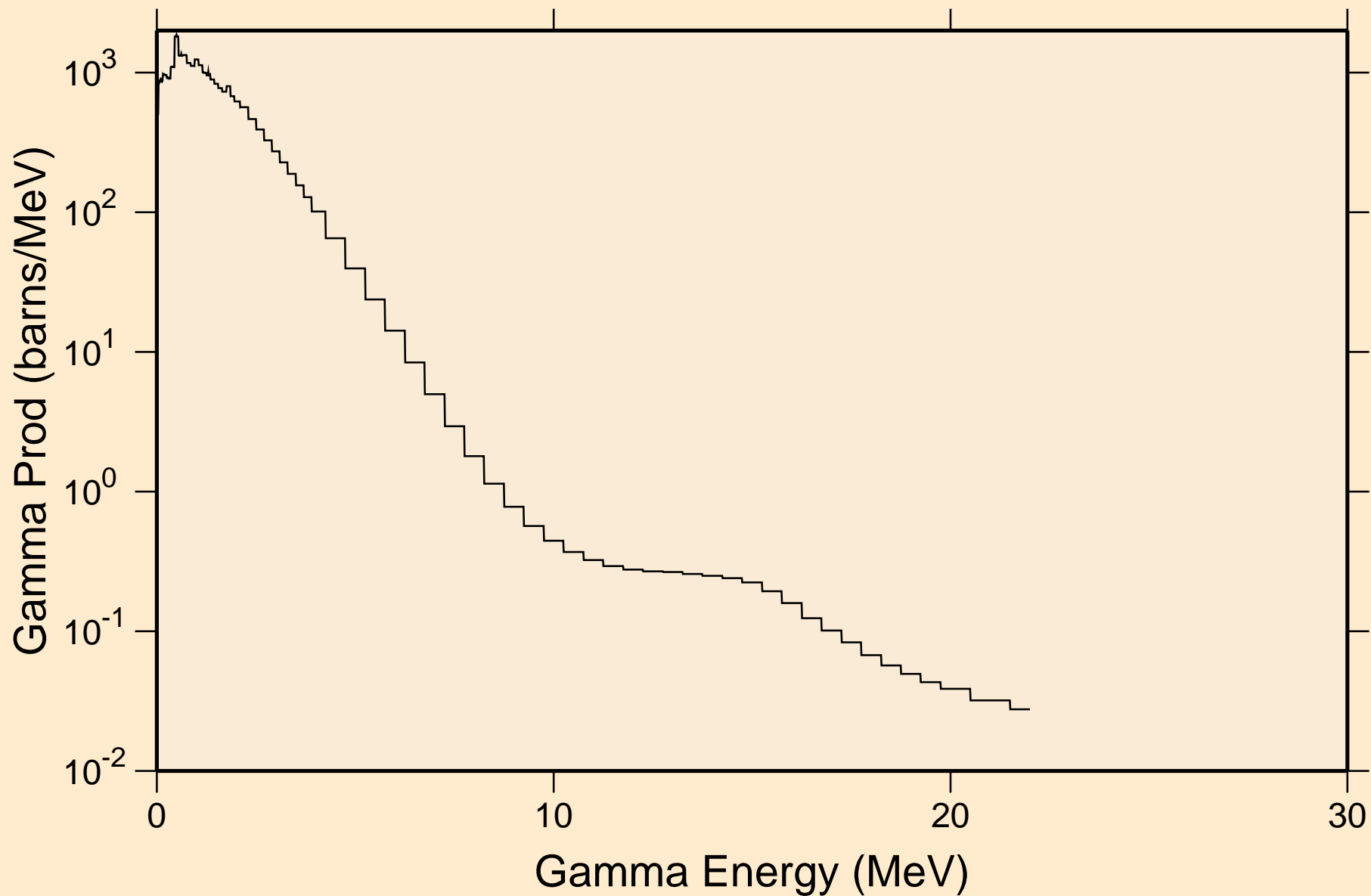
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Photon emission for (n,da)



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thermal capture photon spectrum

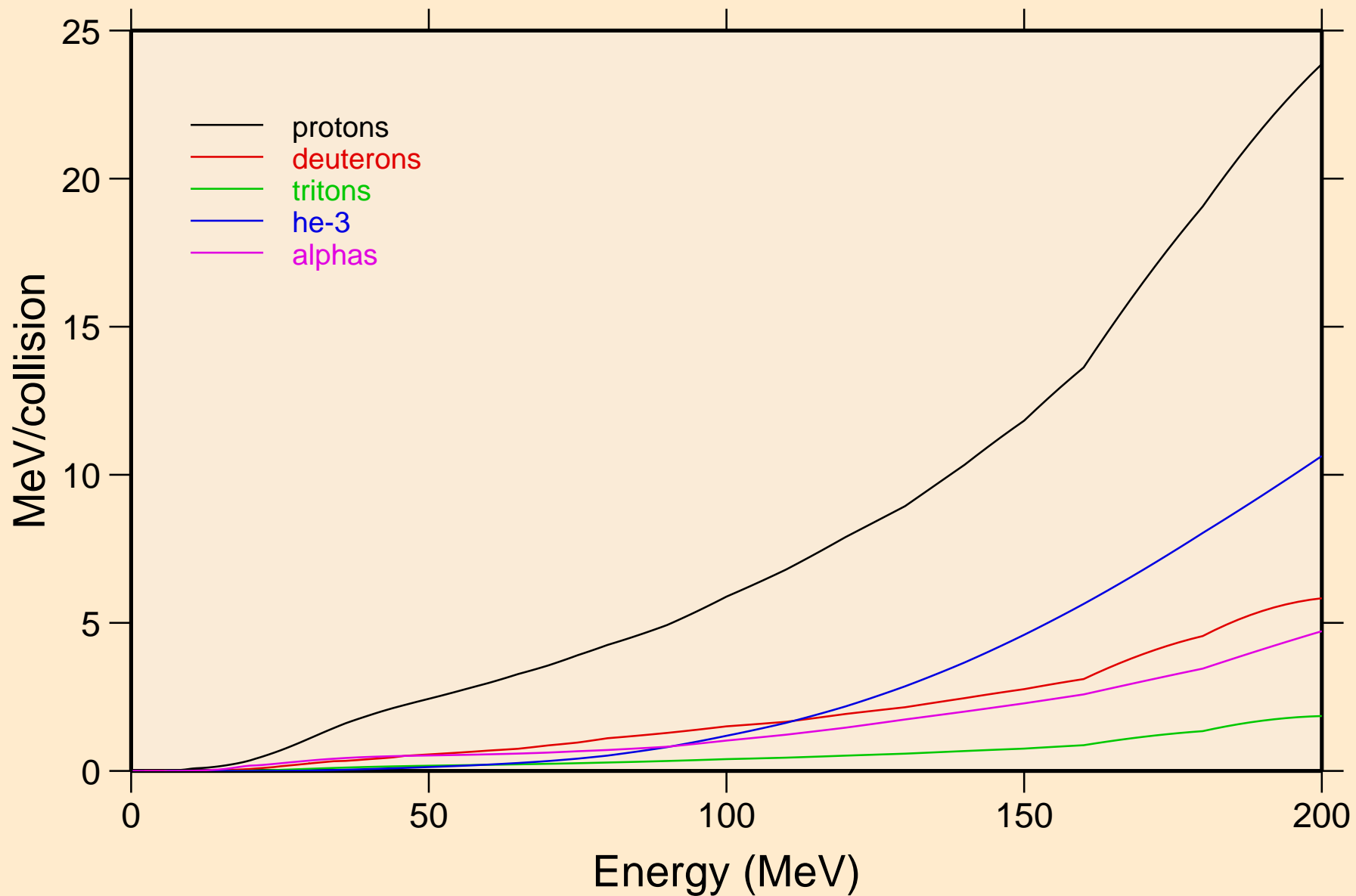


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum

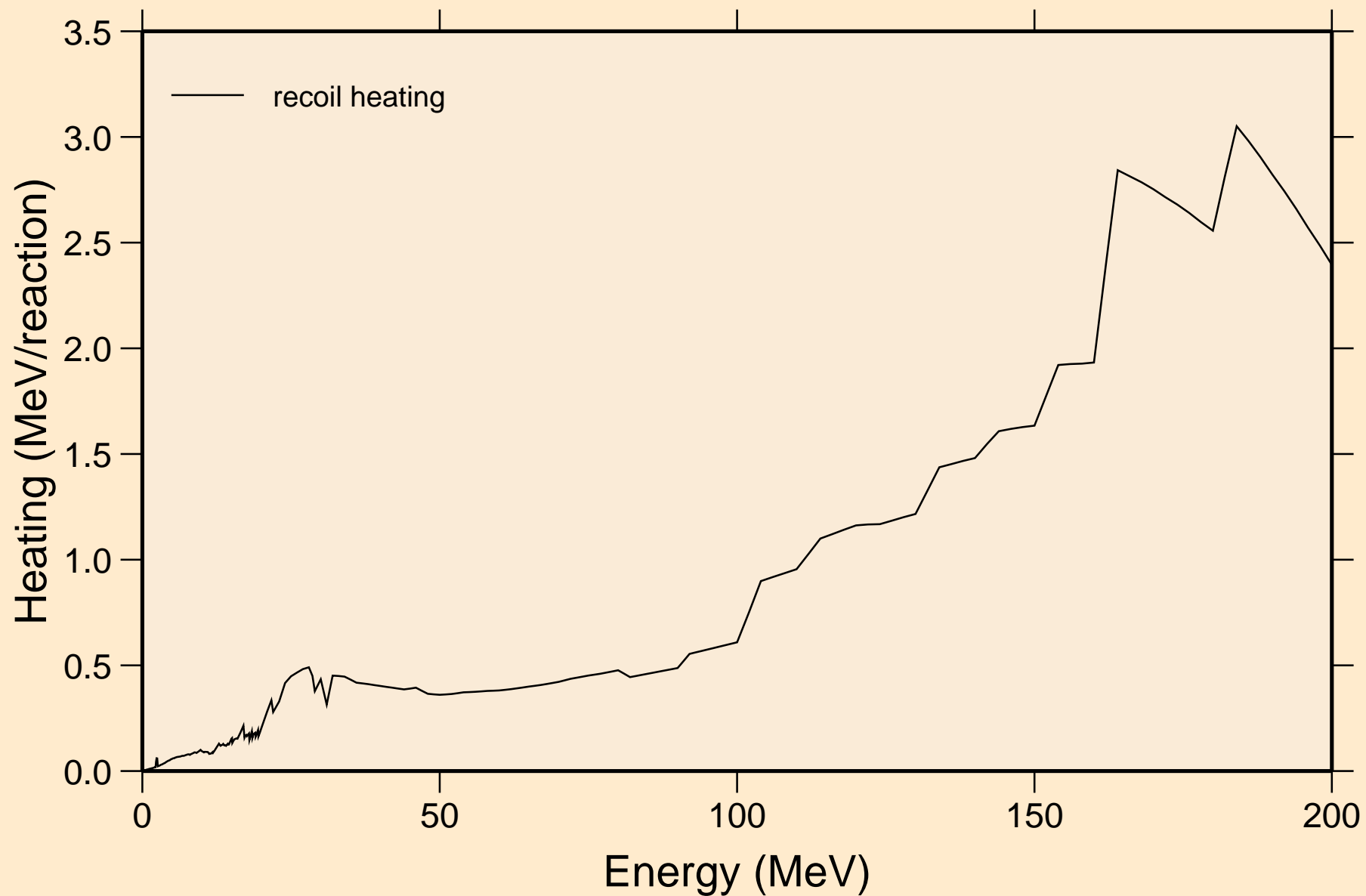


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## Particle heating contributions

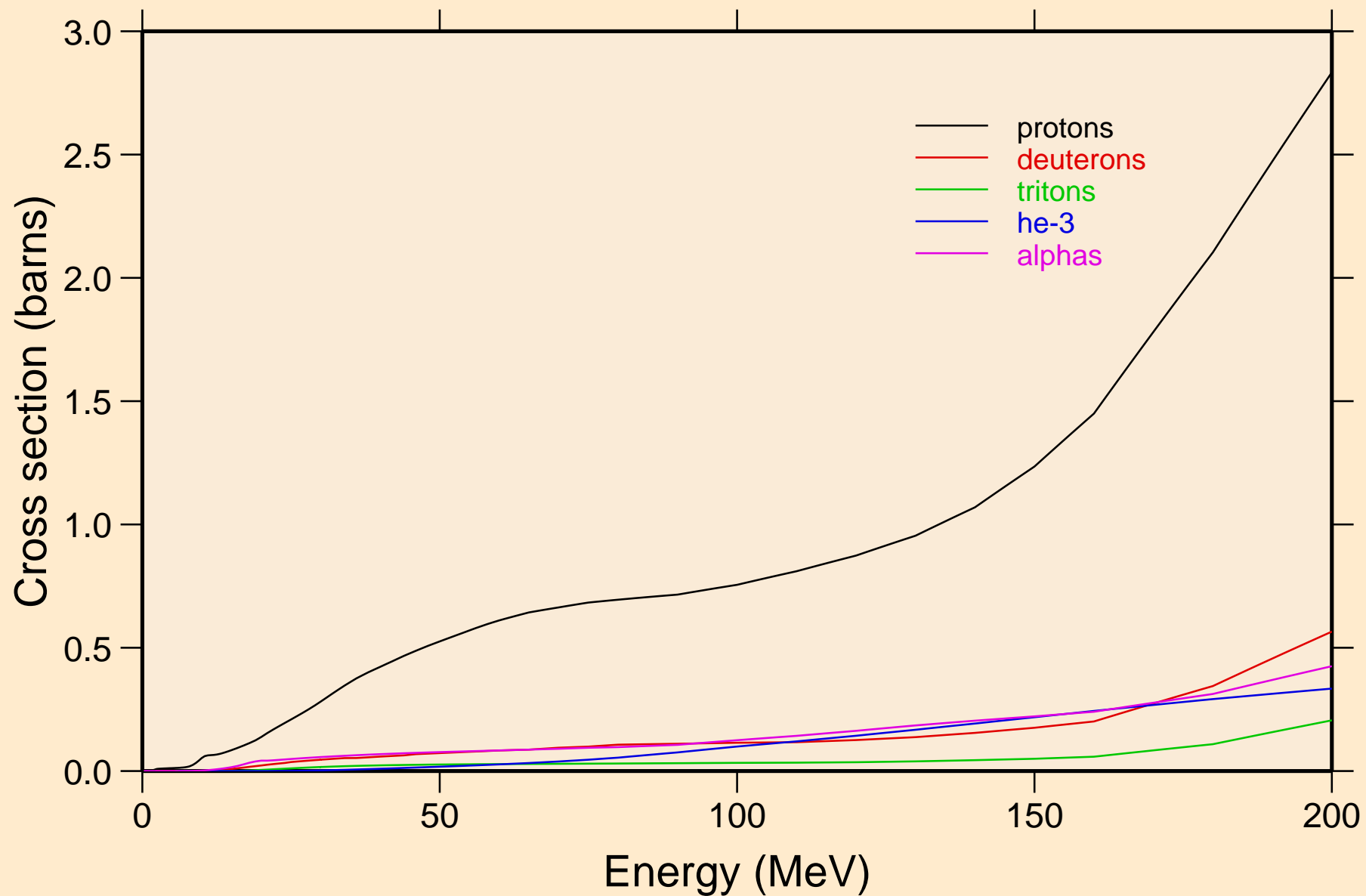


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



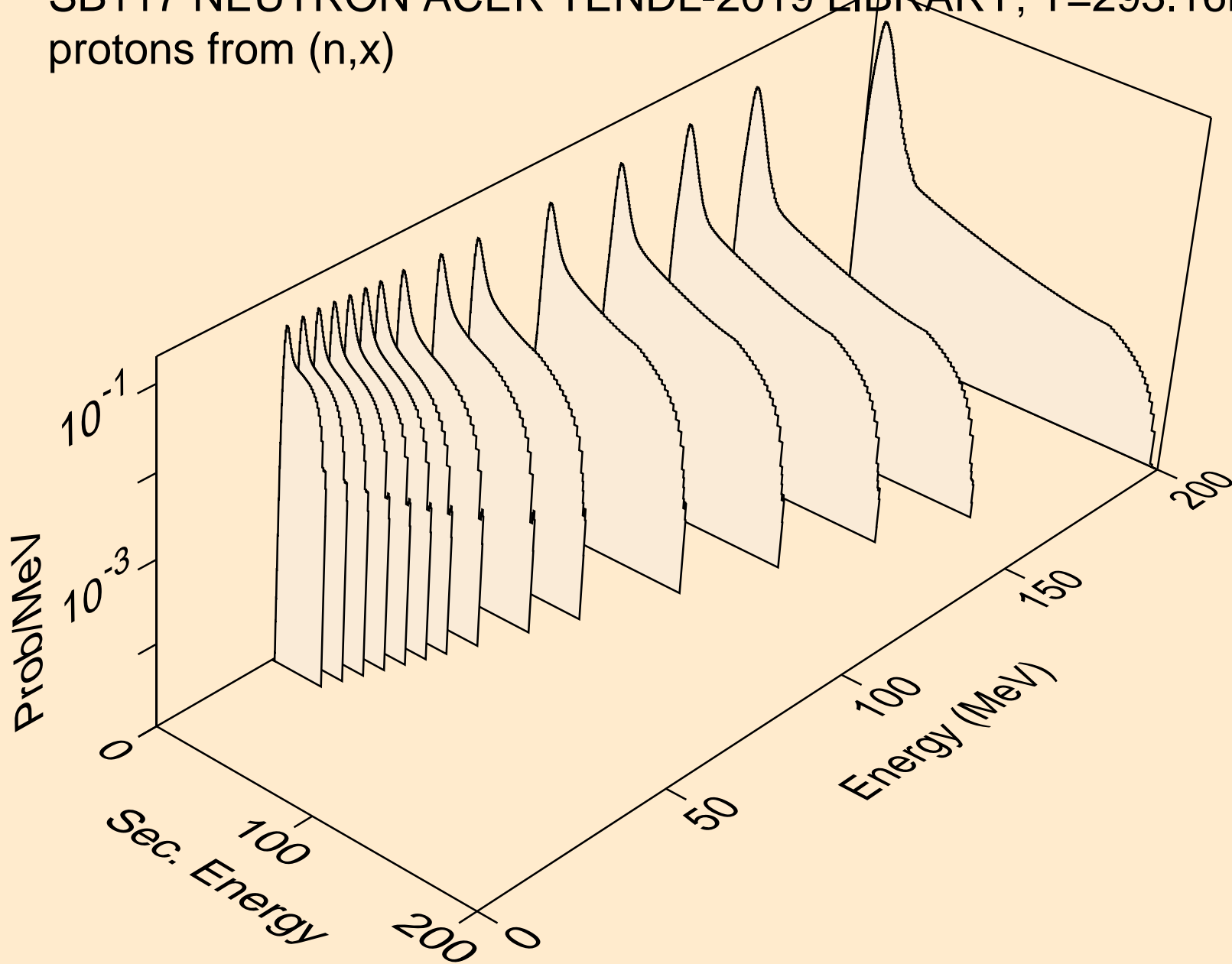
# SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Particle production cross sections

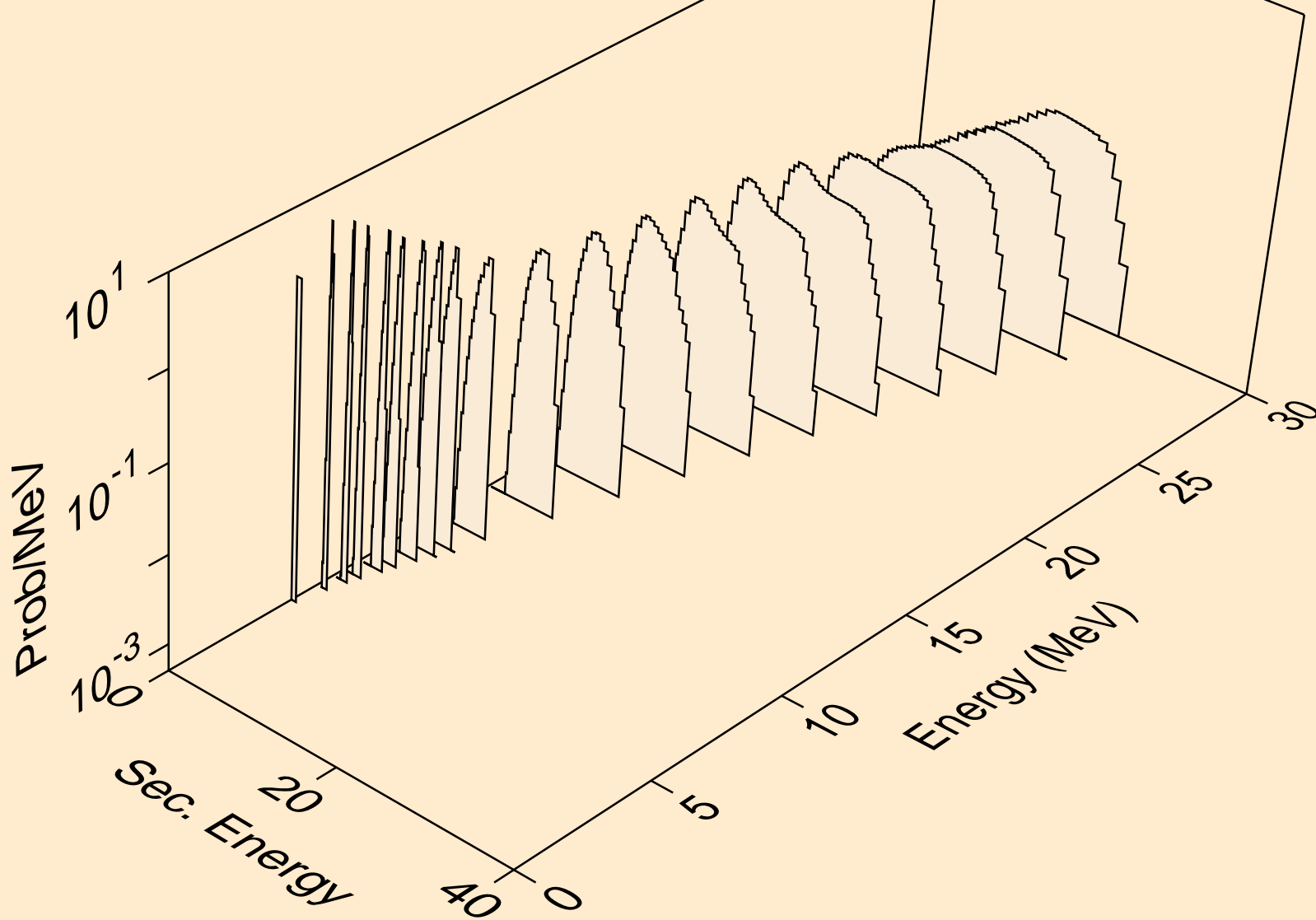




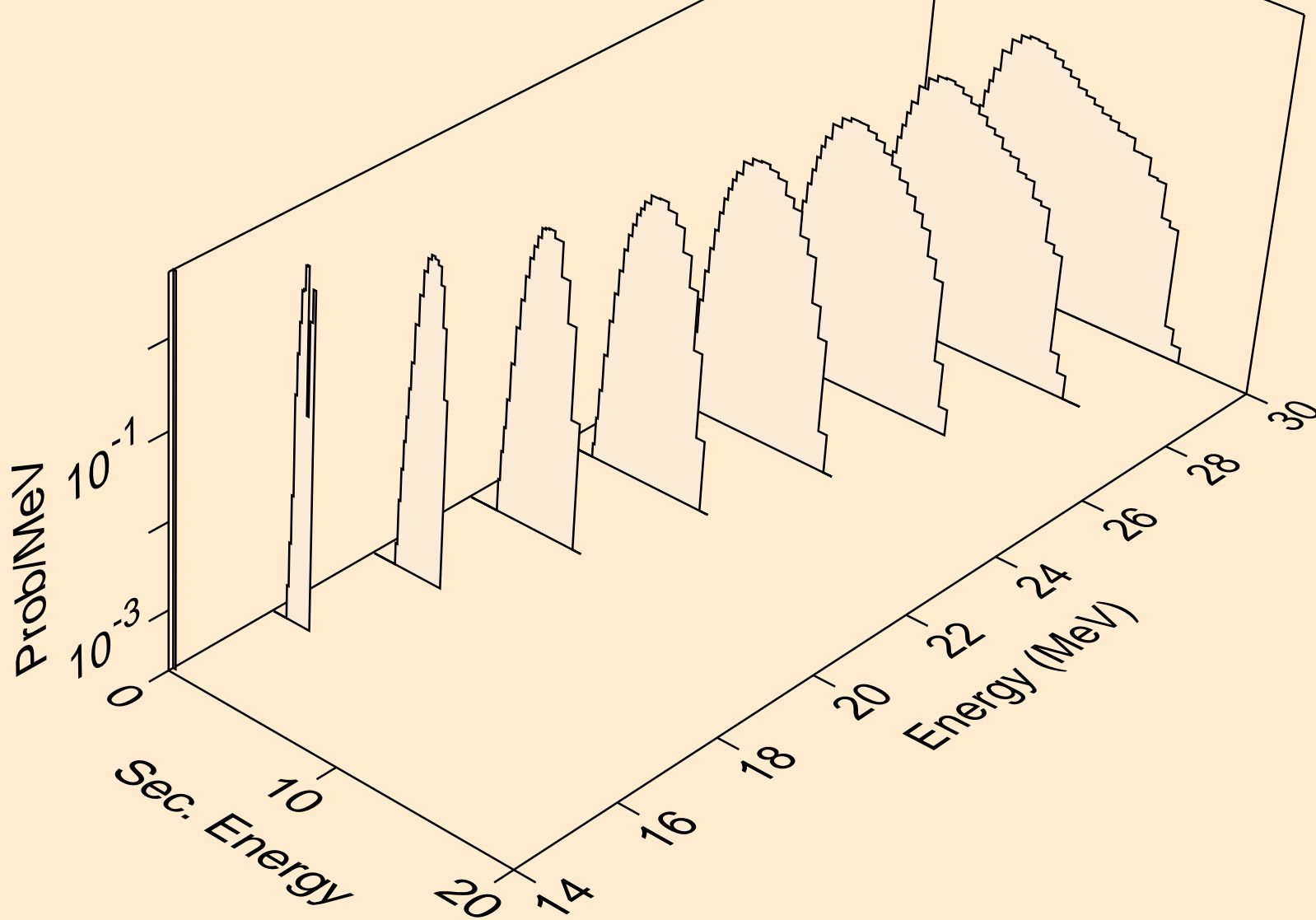
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



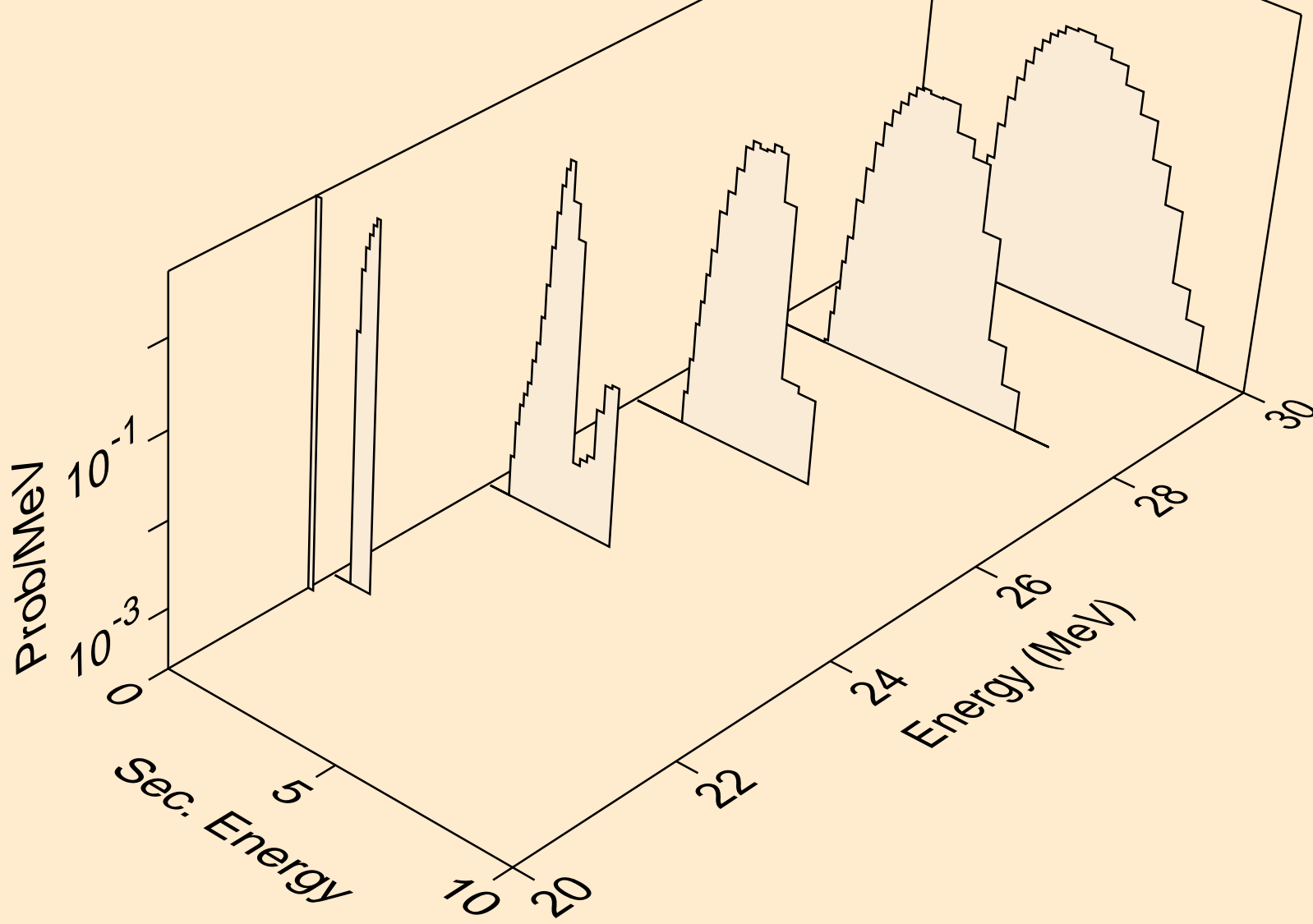
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



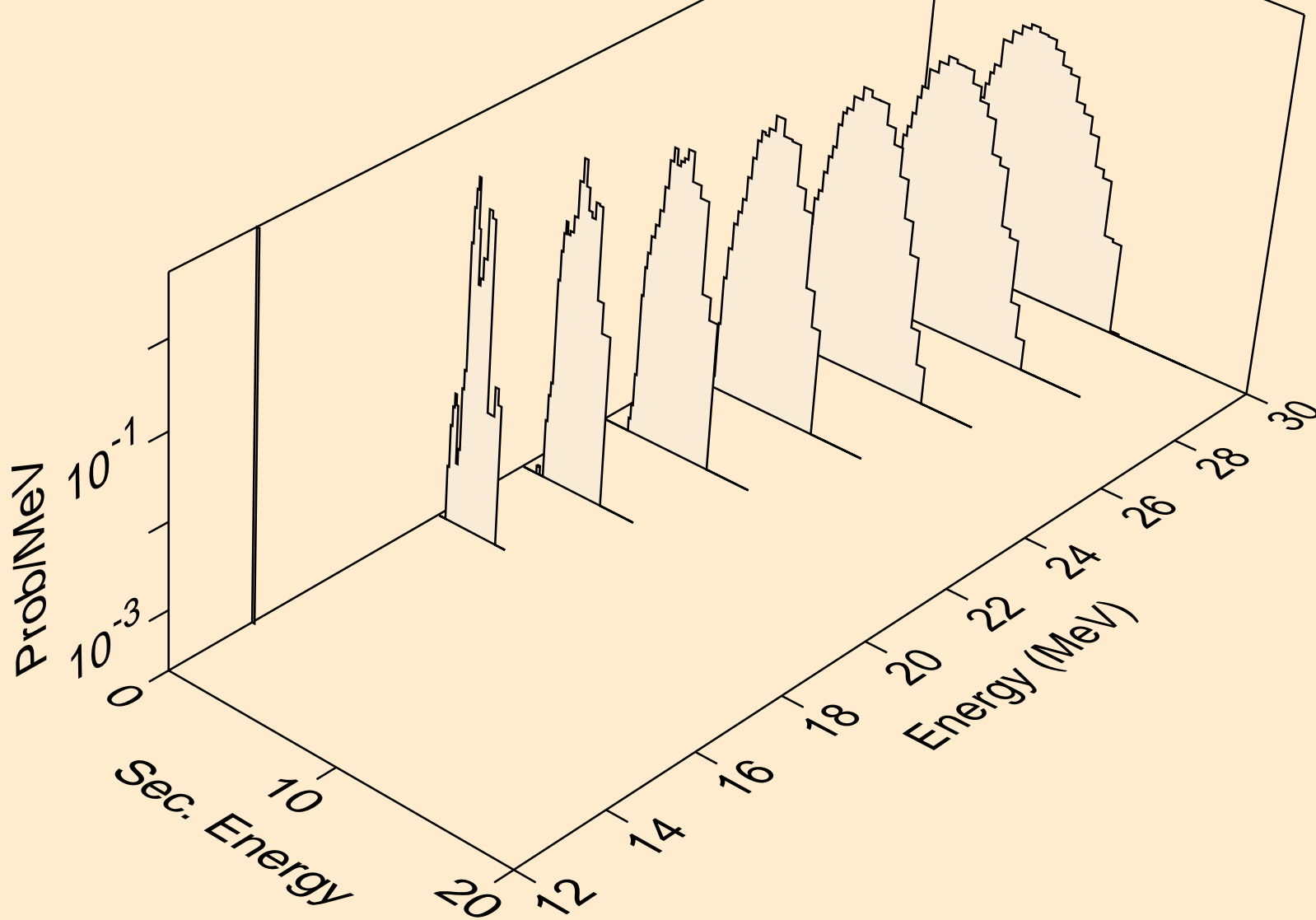
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protons from (n,2np)



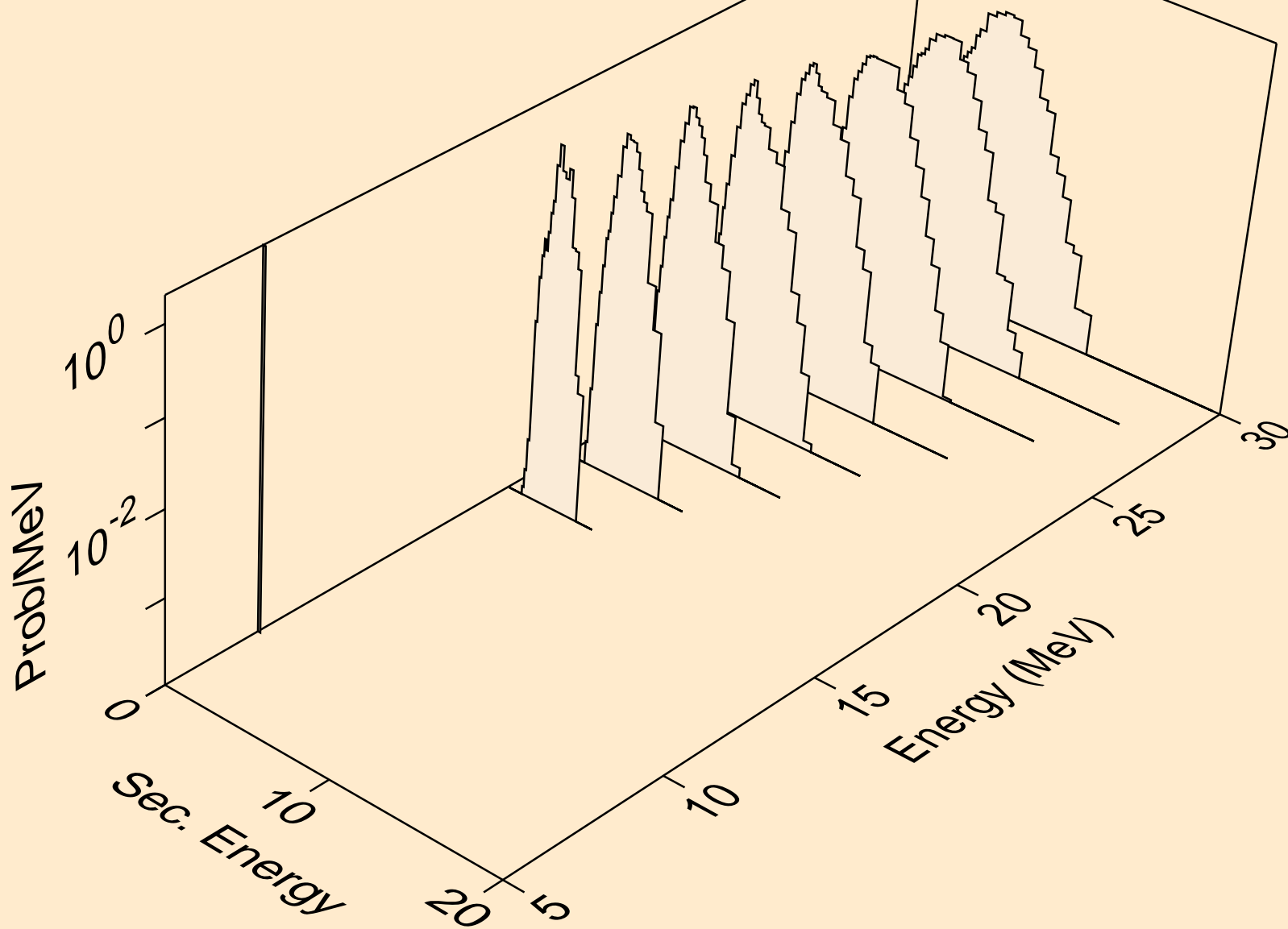
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protons from (n,3np)



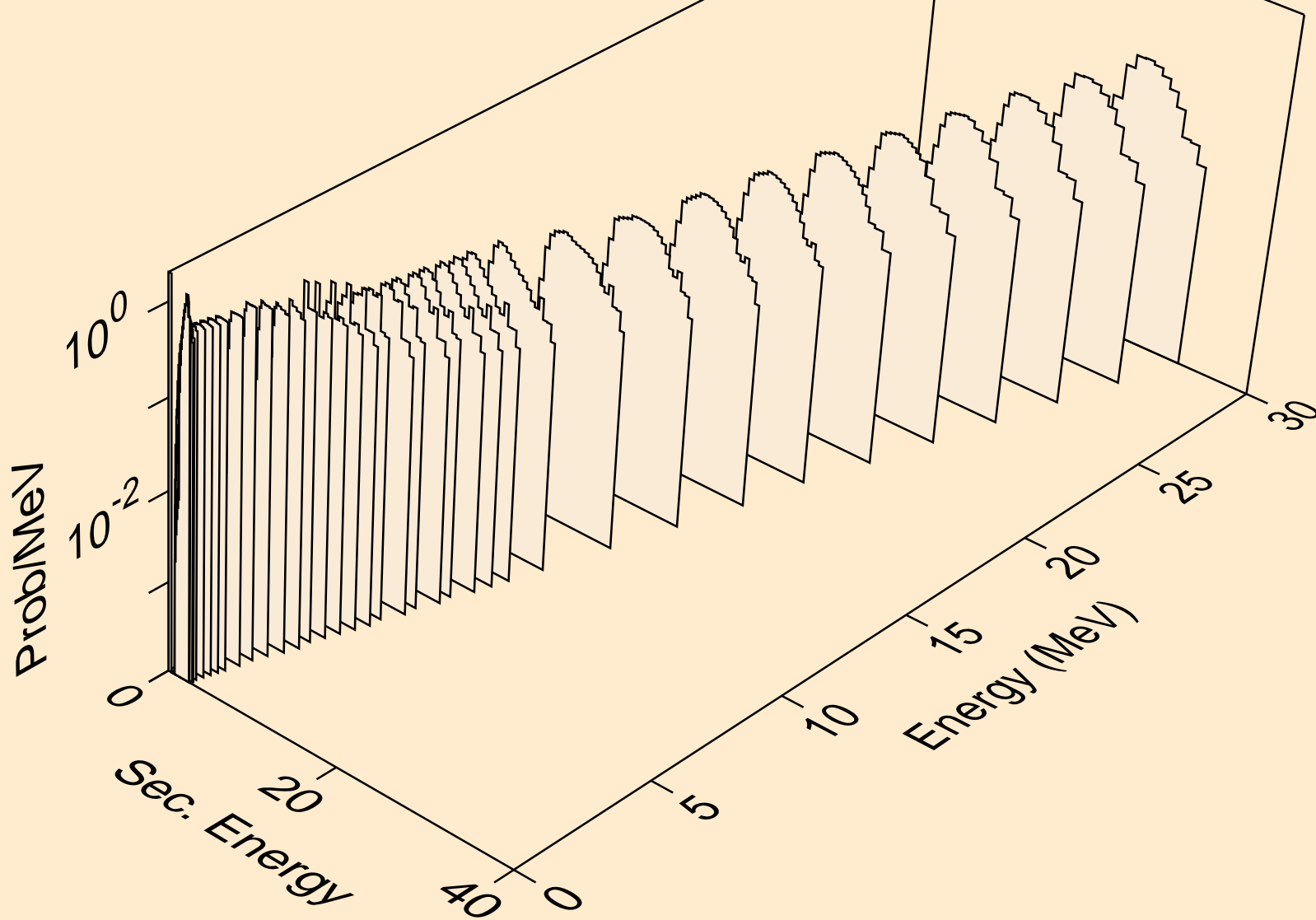
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protons from (n,2np)



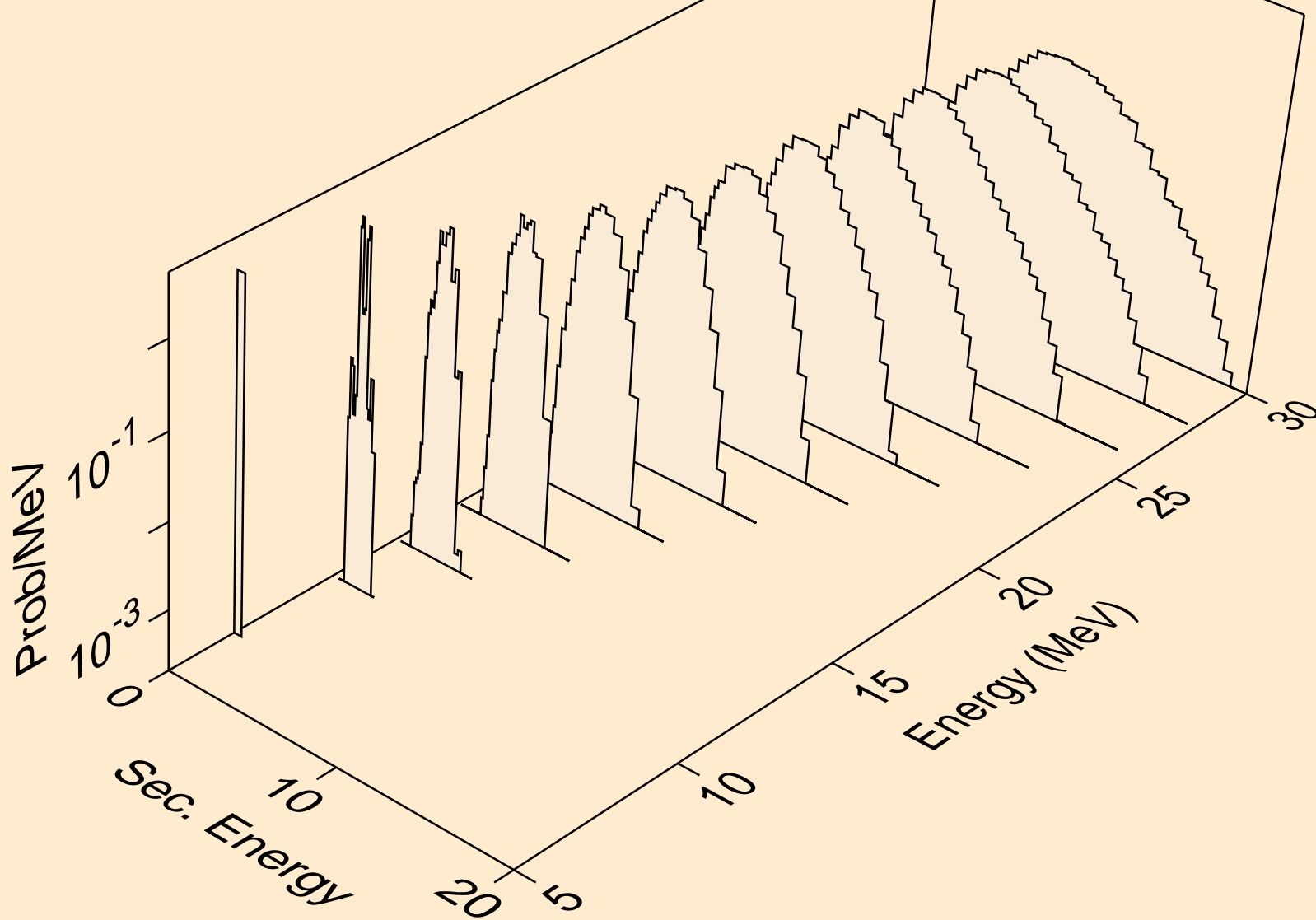
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protons from (n,npa)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)

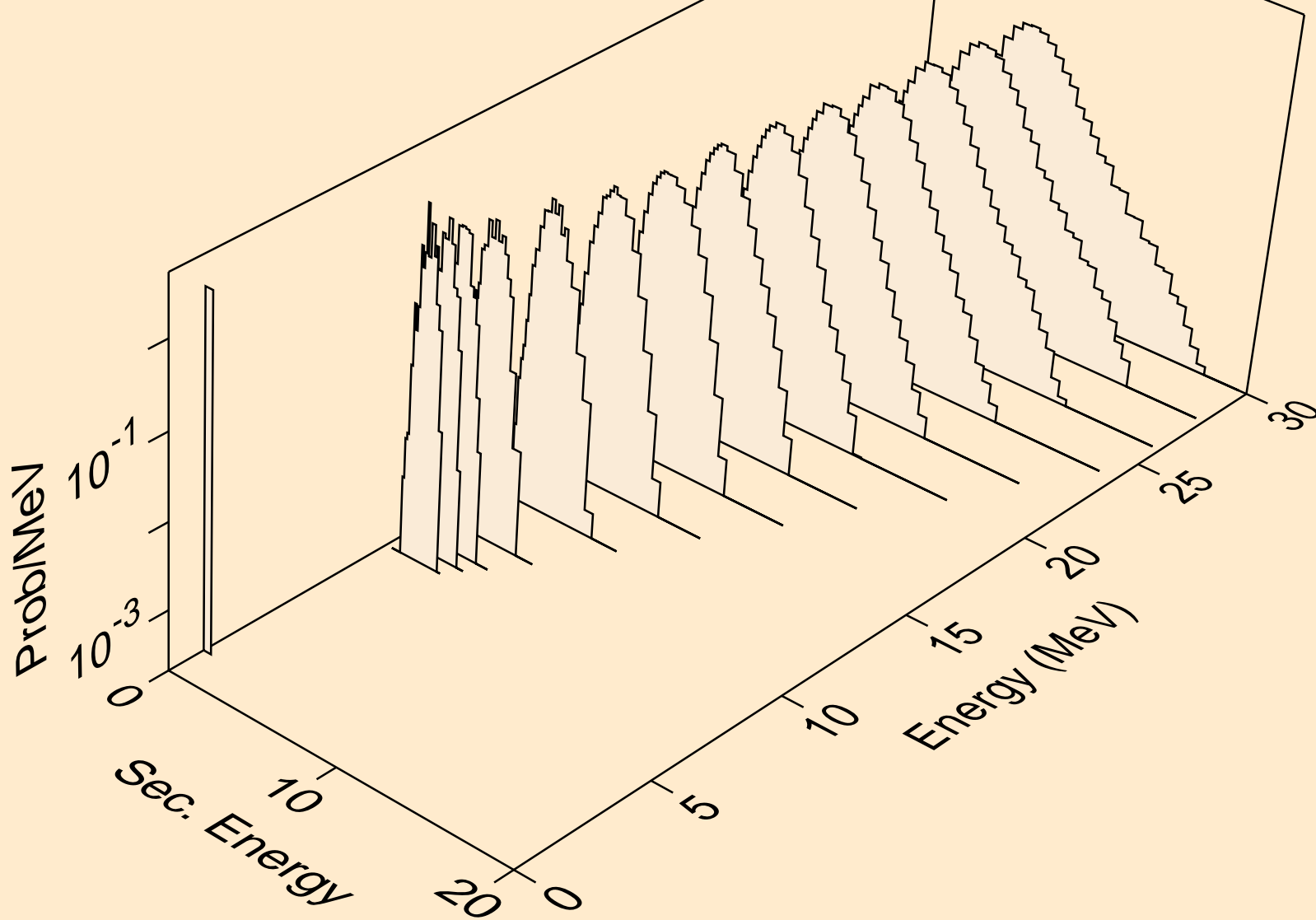


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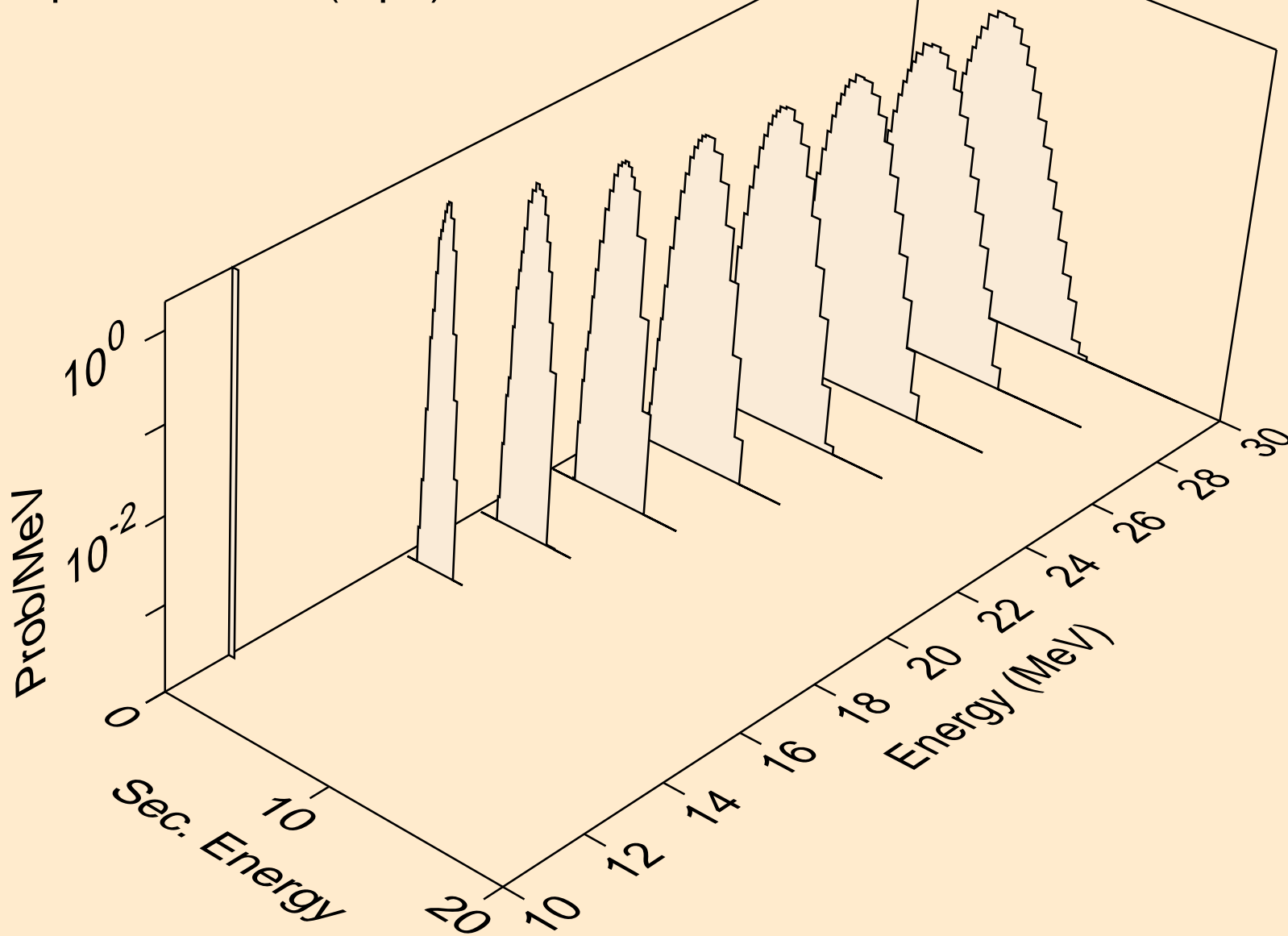




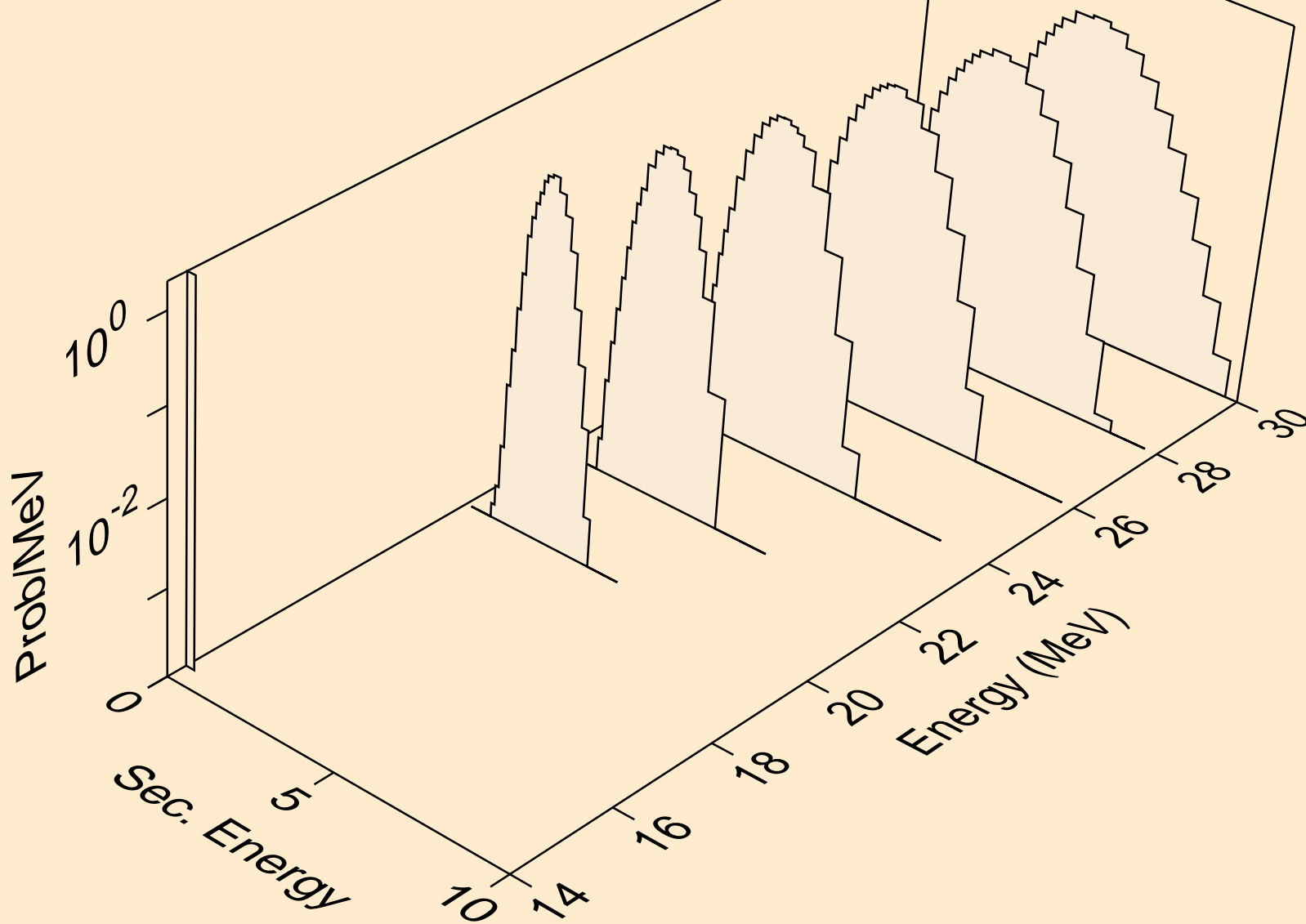
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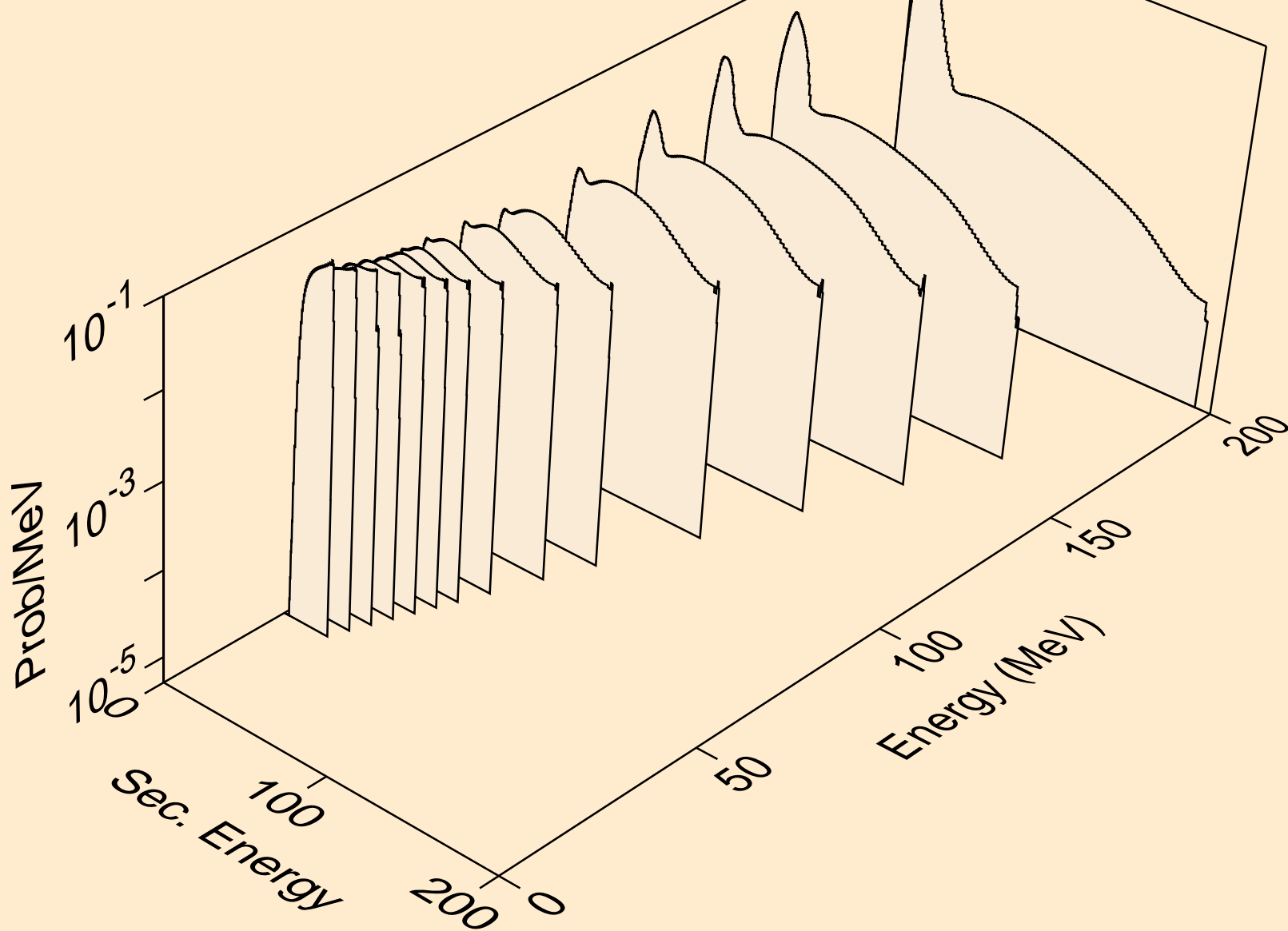
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protons from (n,pd)



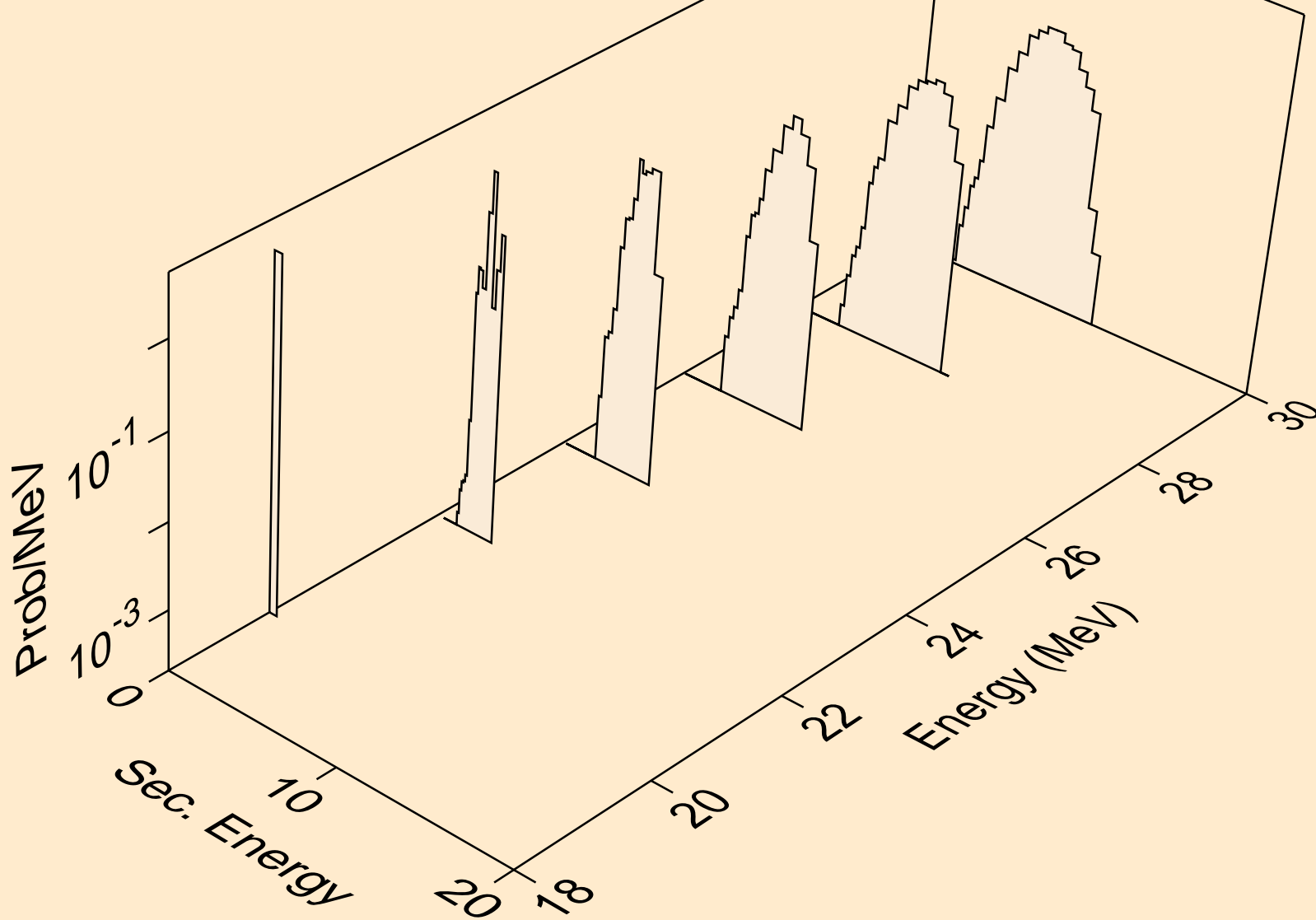
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protons from (n,pt)



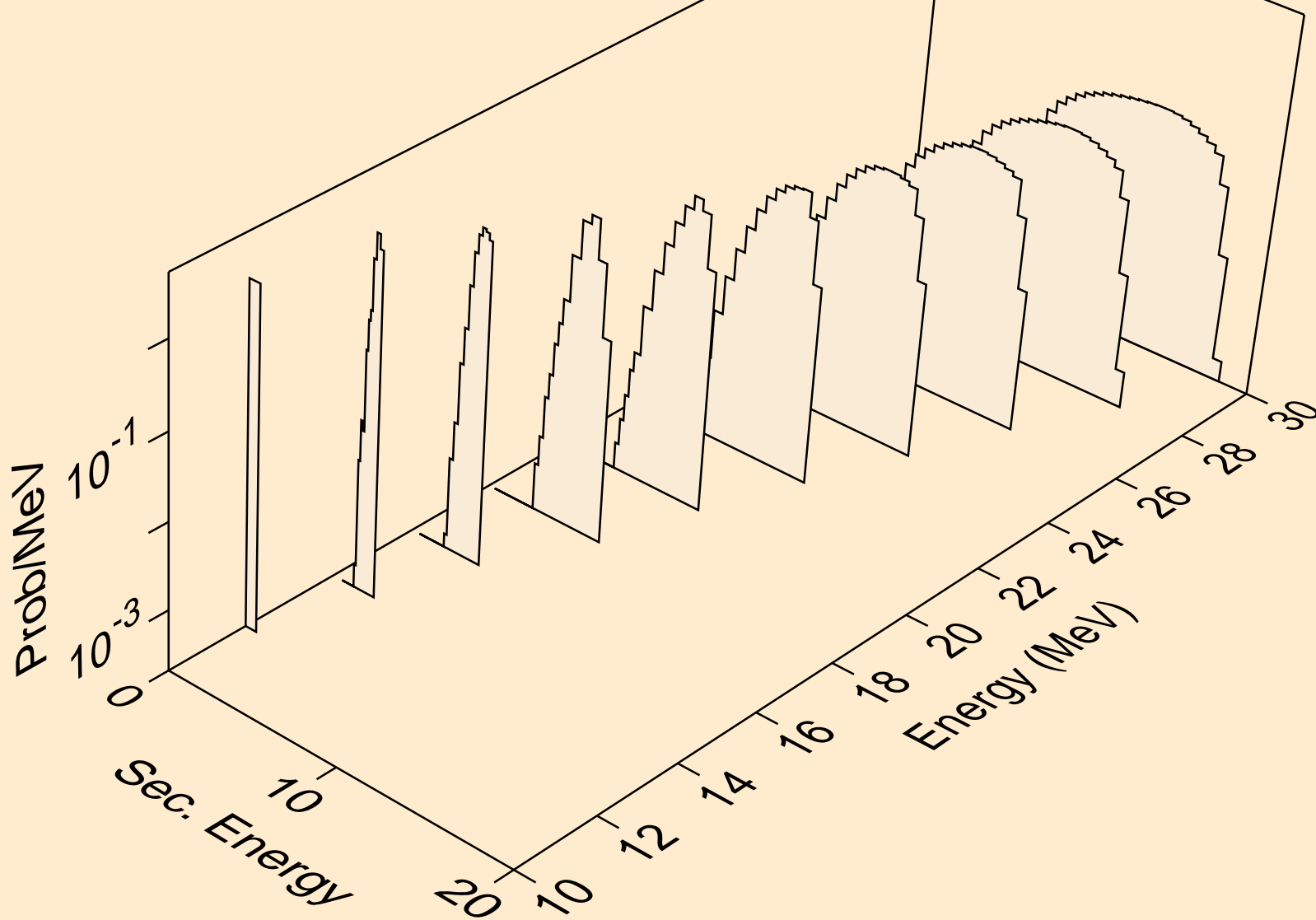
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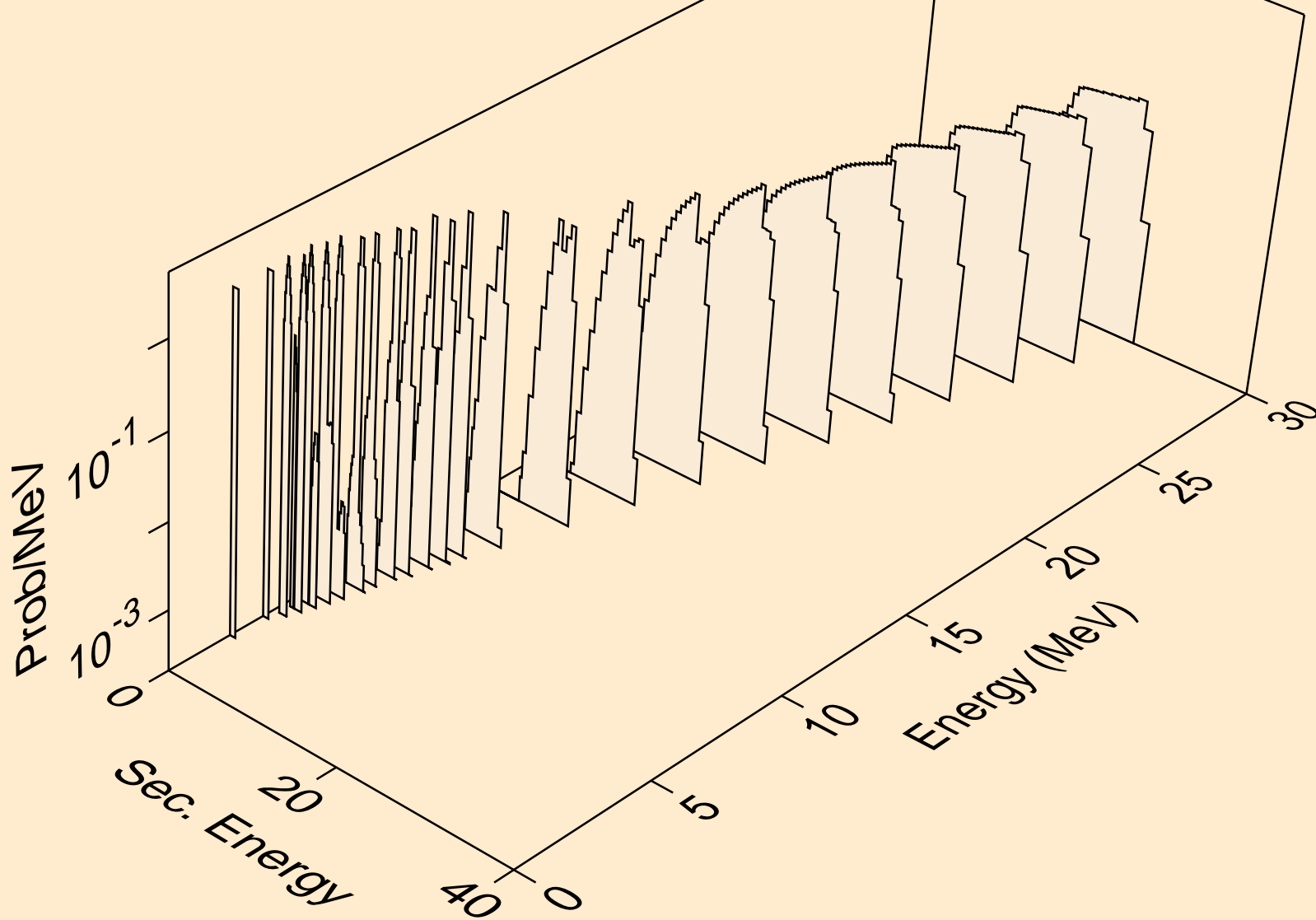
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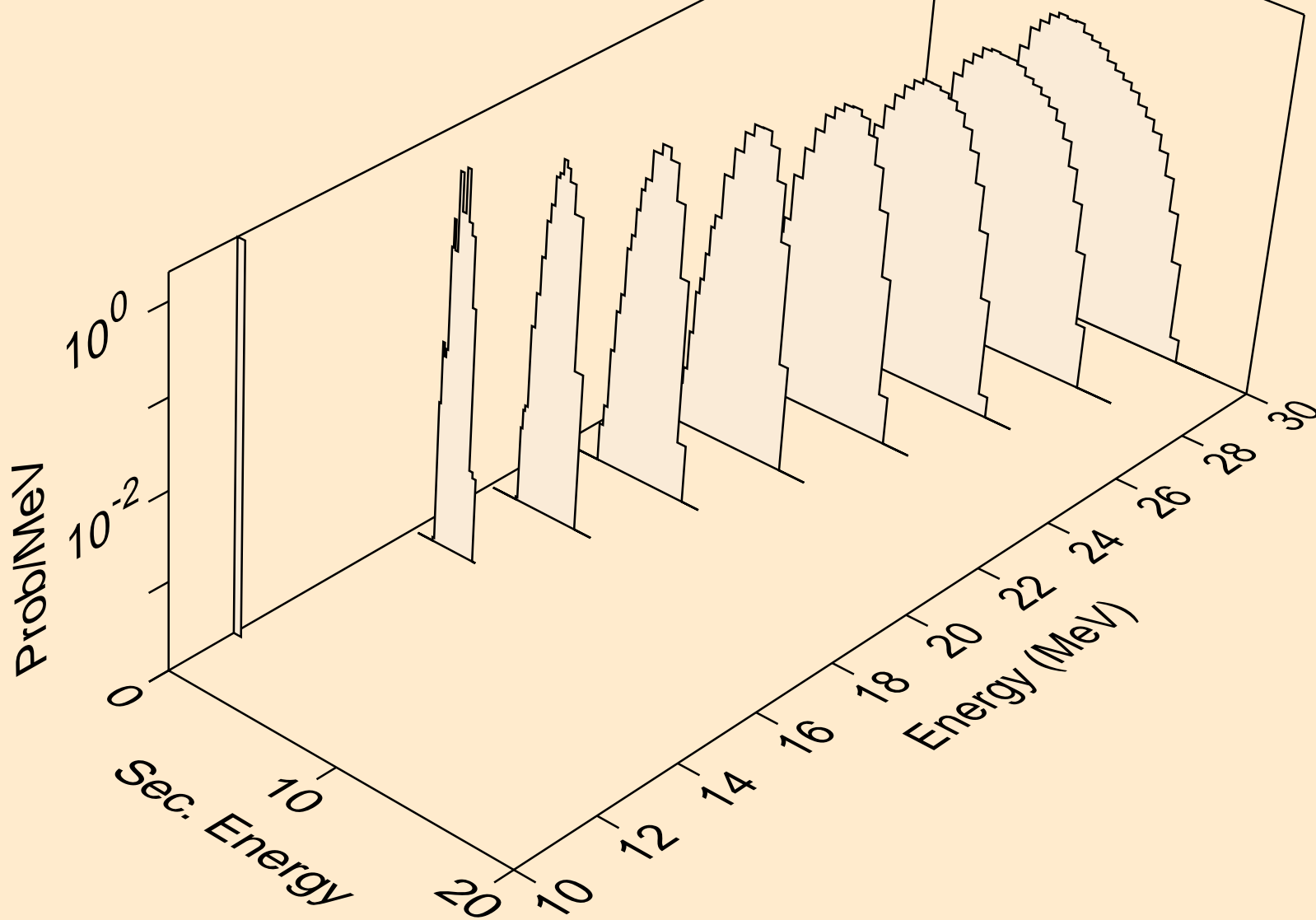
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SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

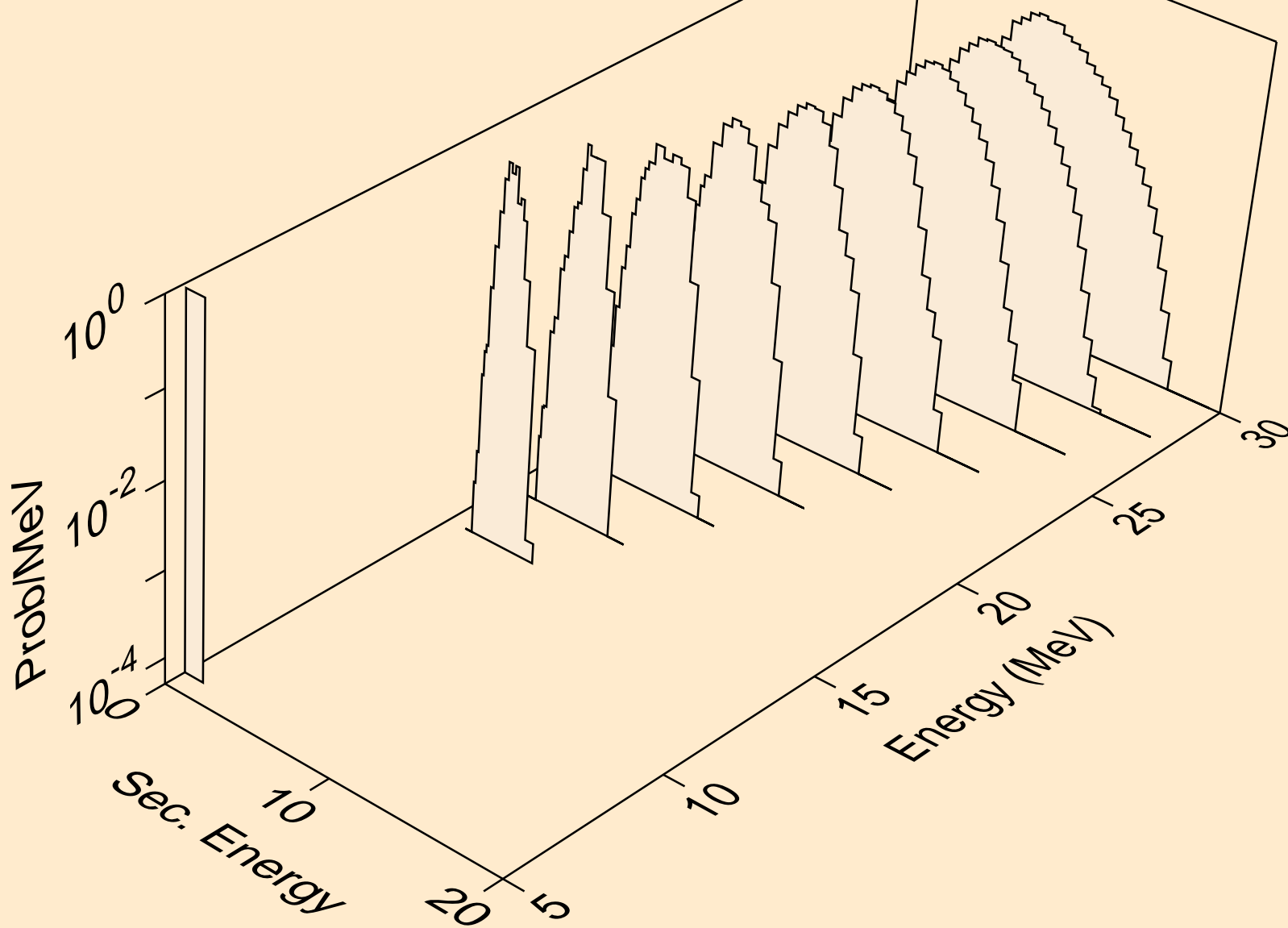


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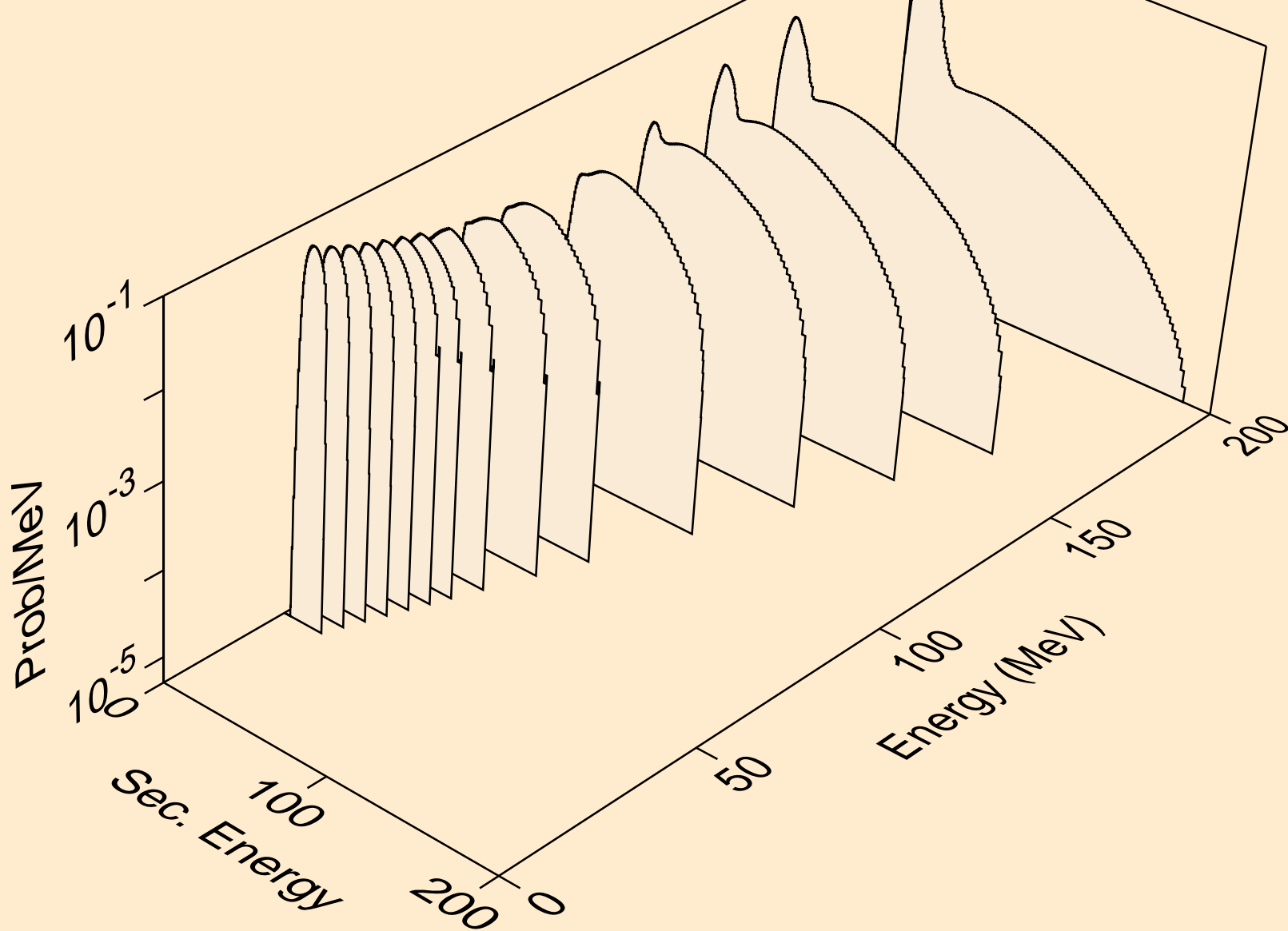




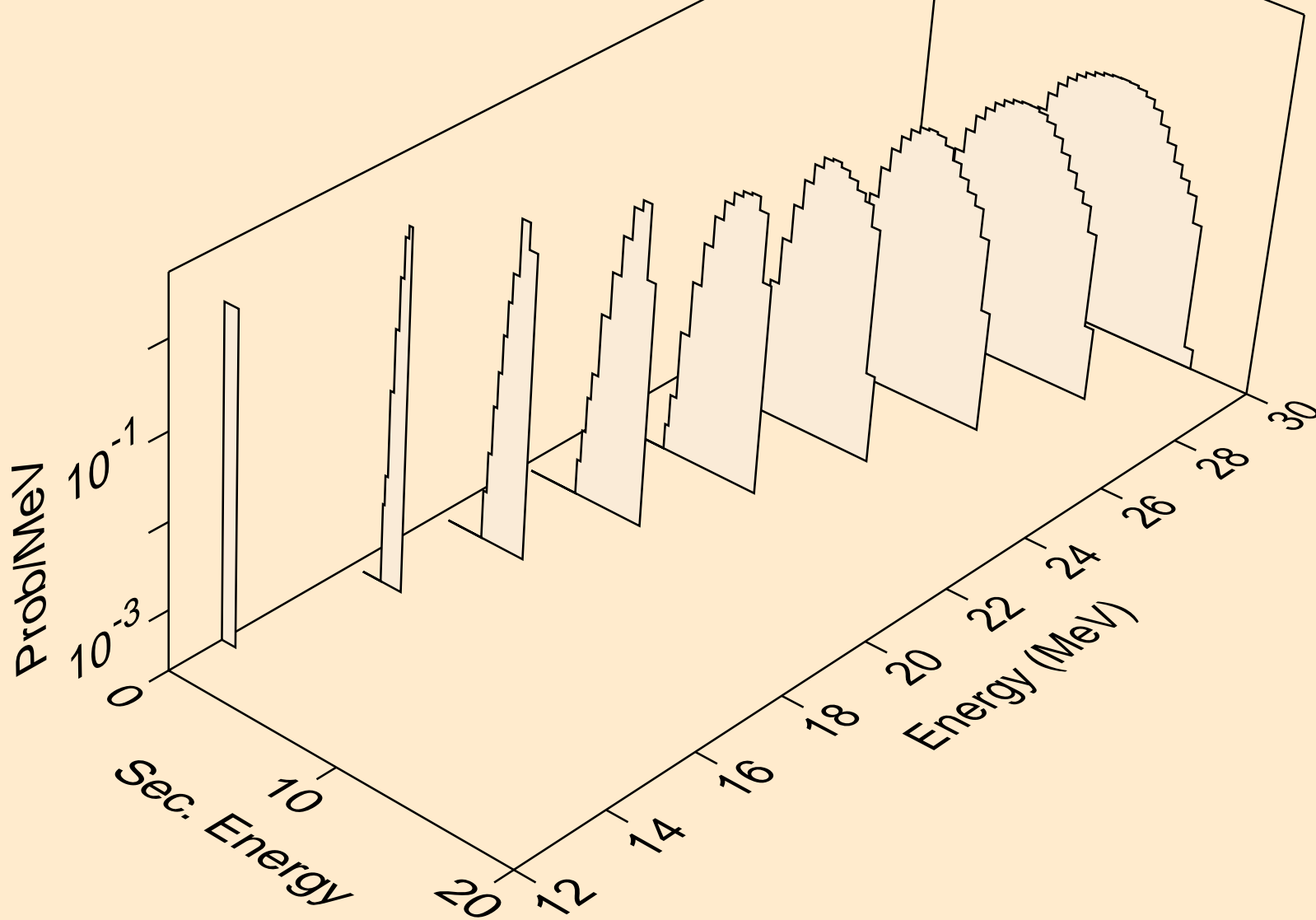
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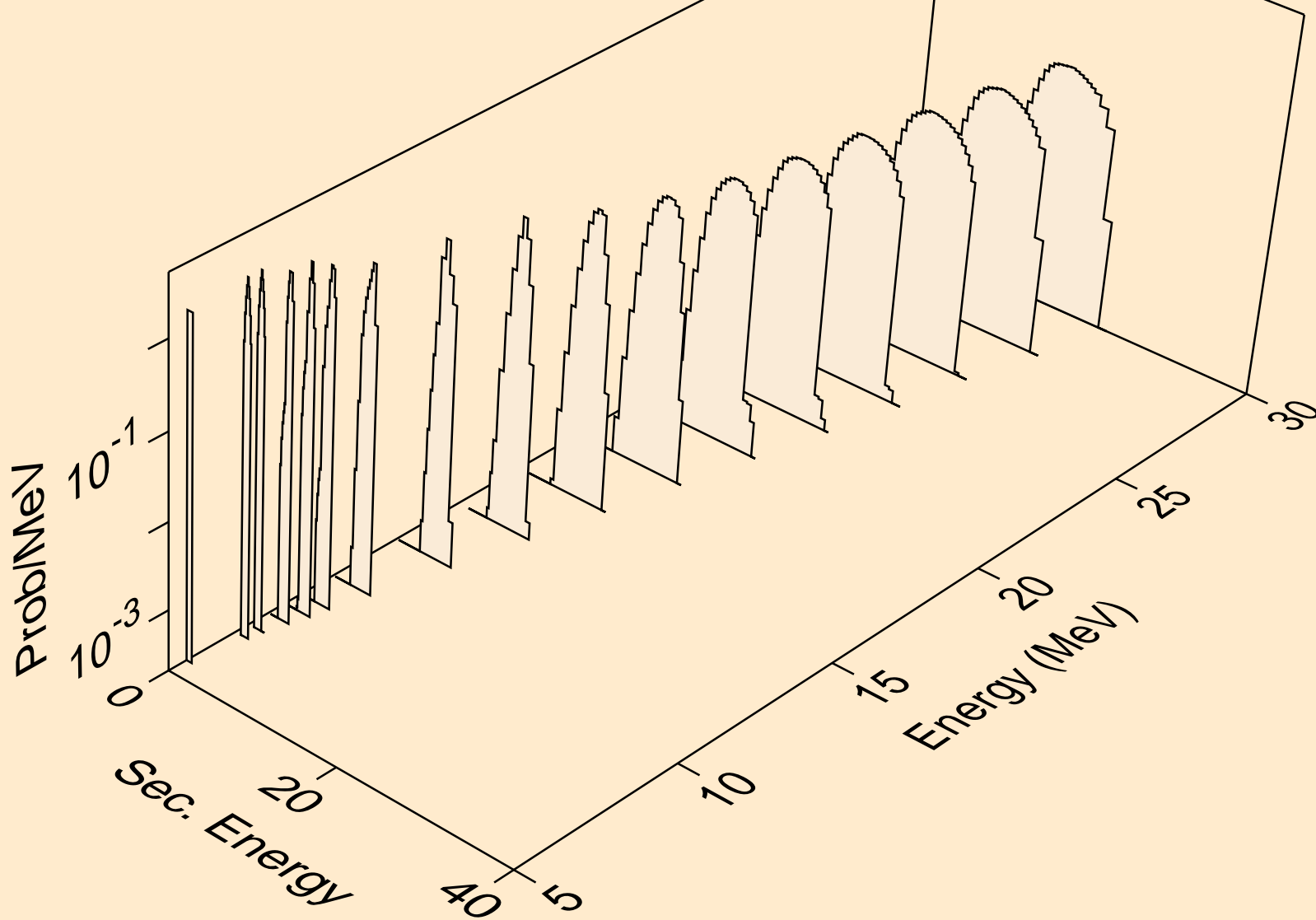
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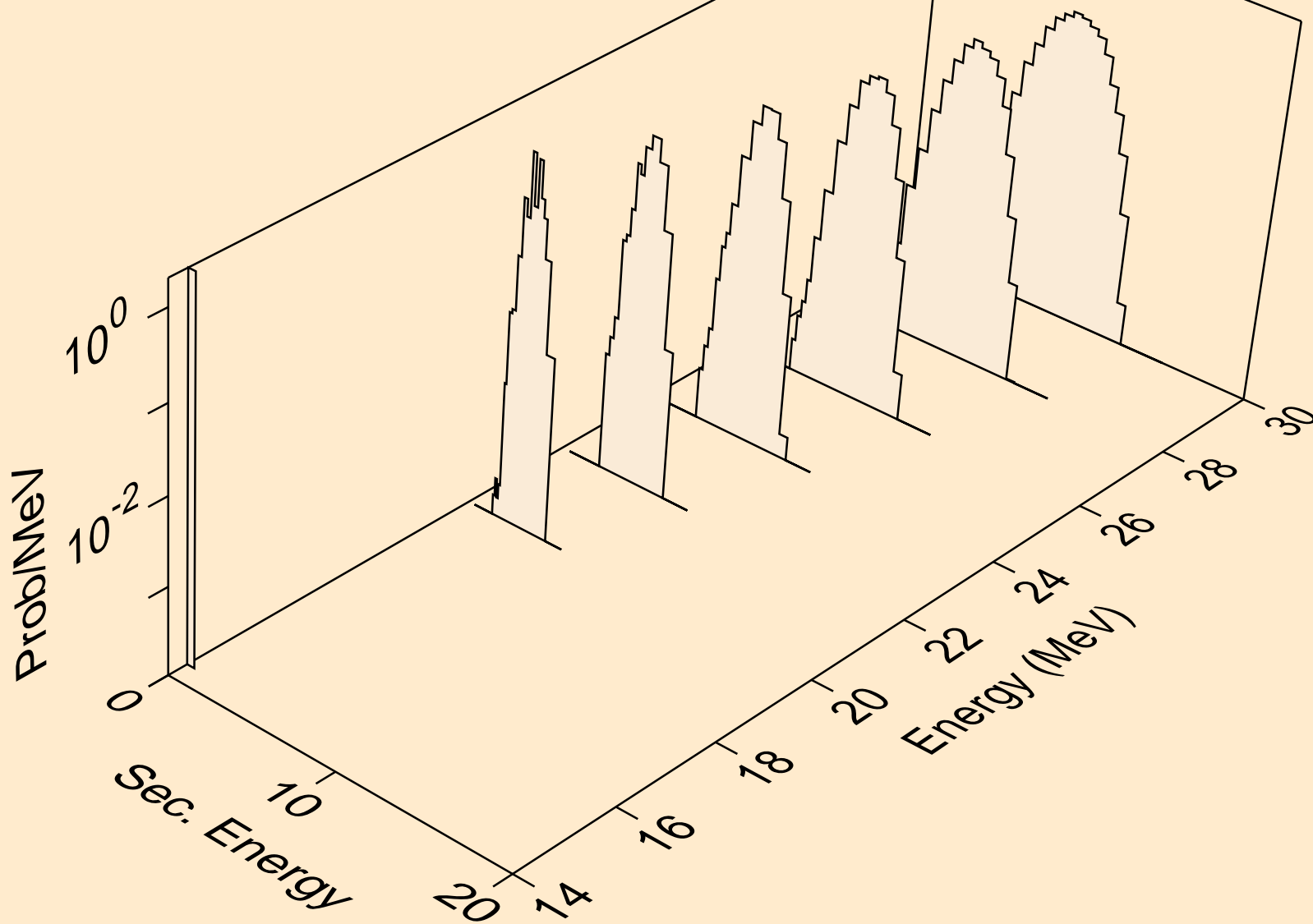
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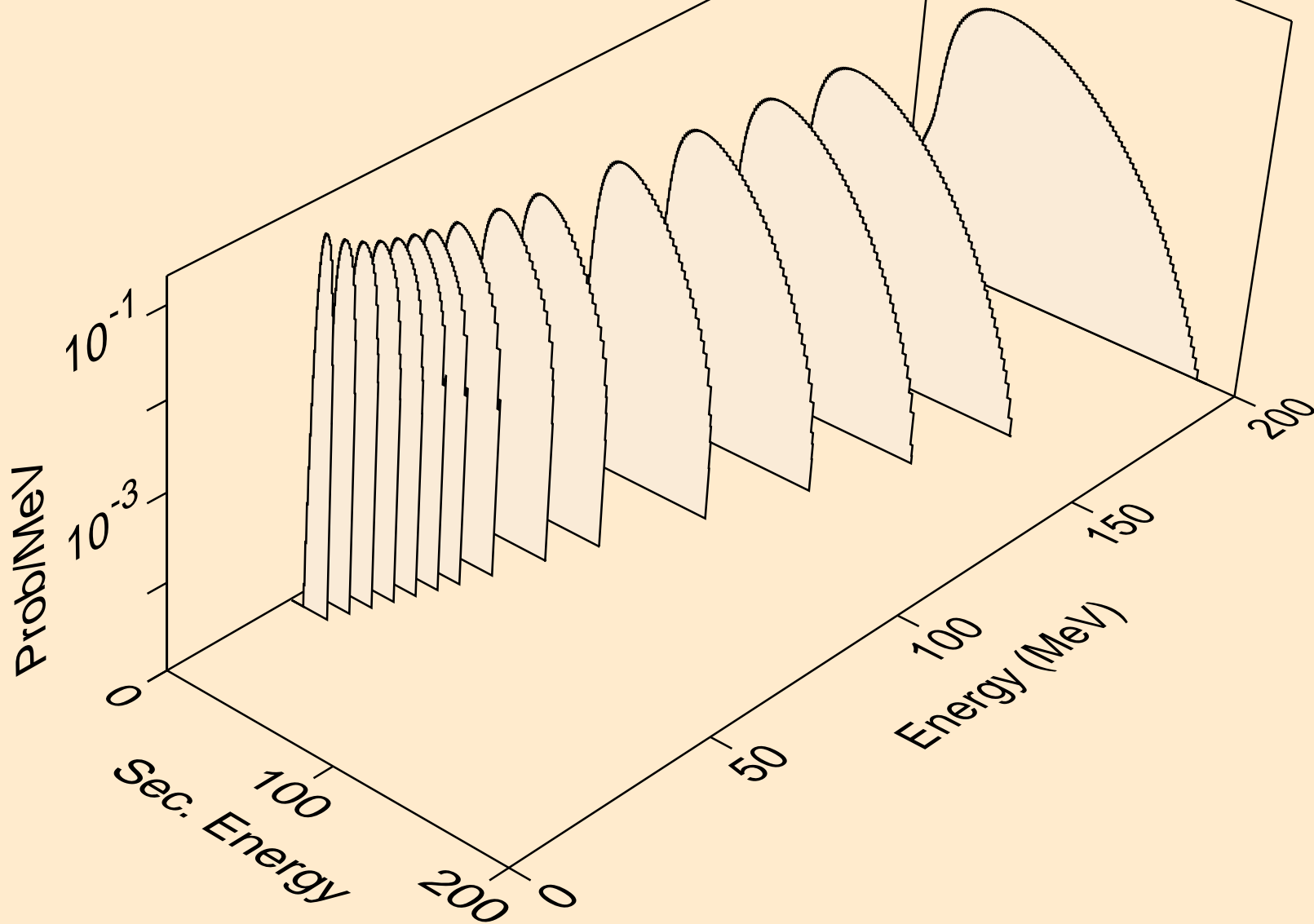
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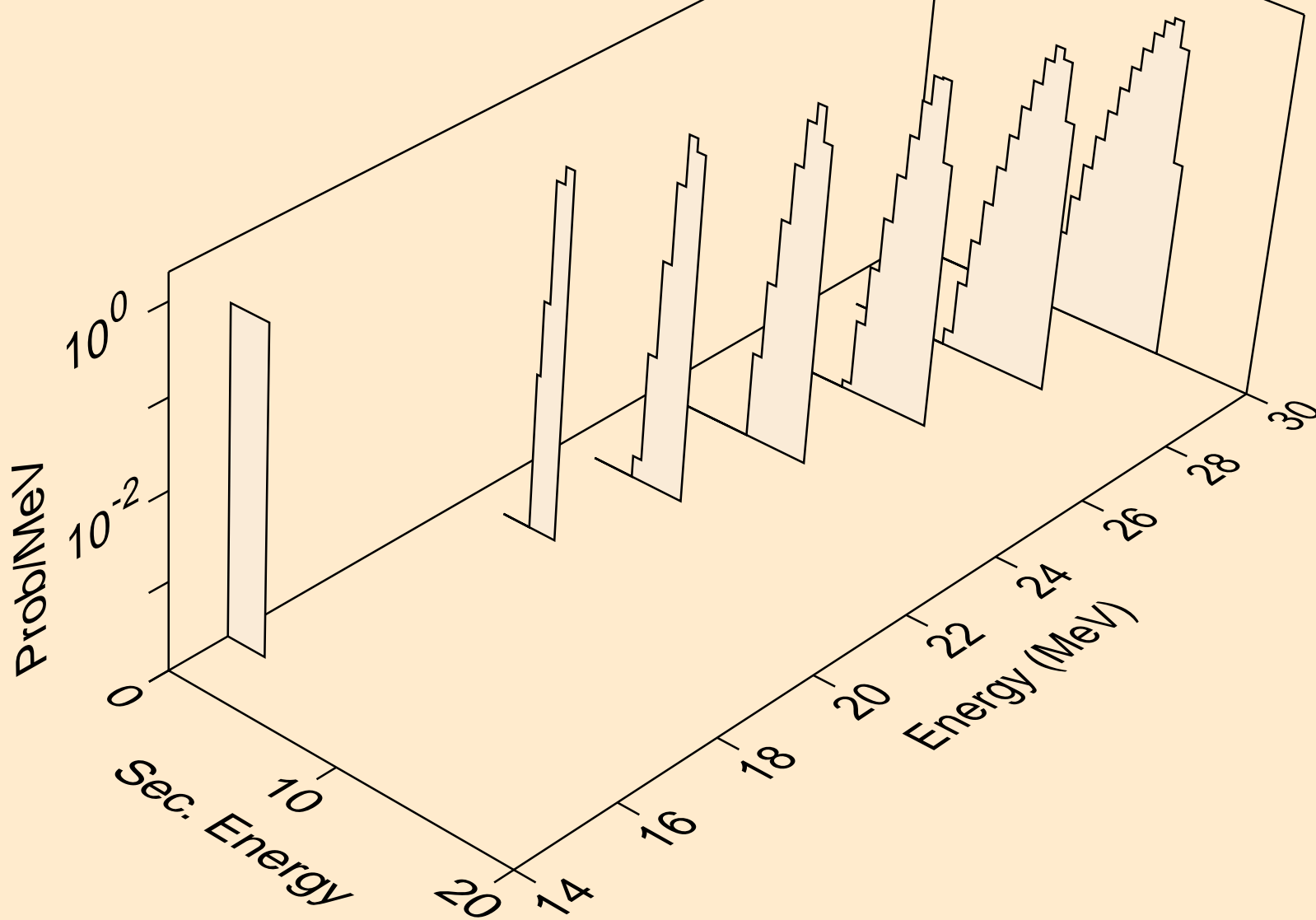
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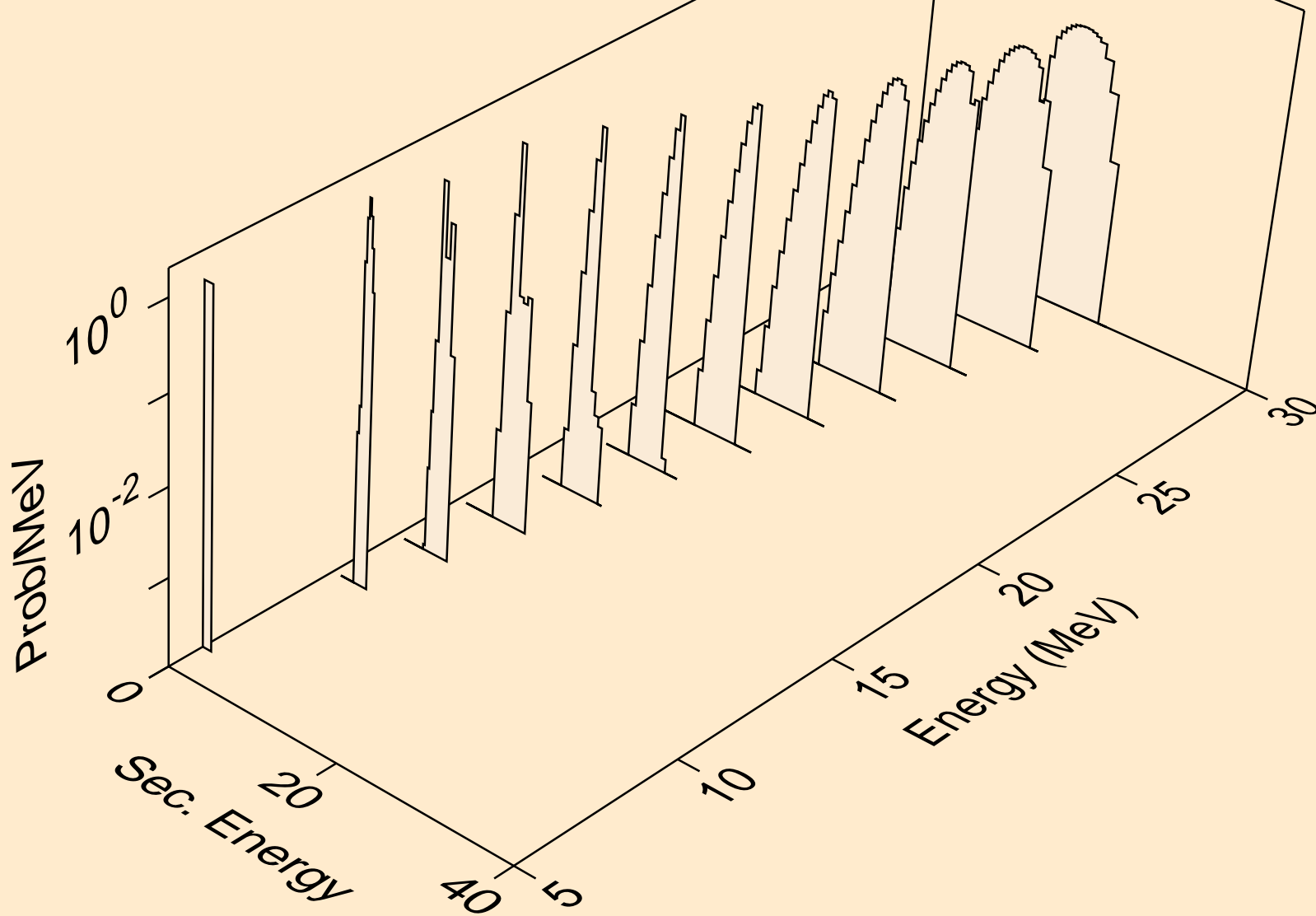
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he3s from (n,x)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3

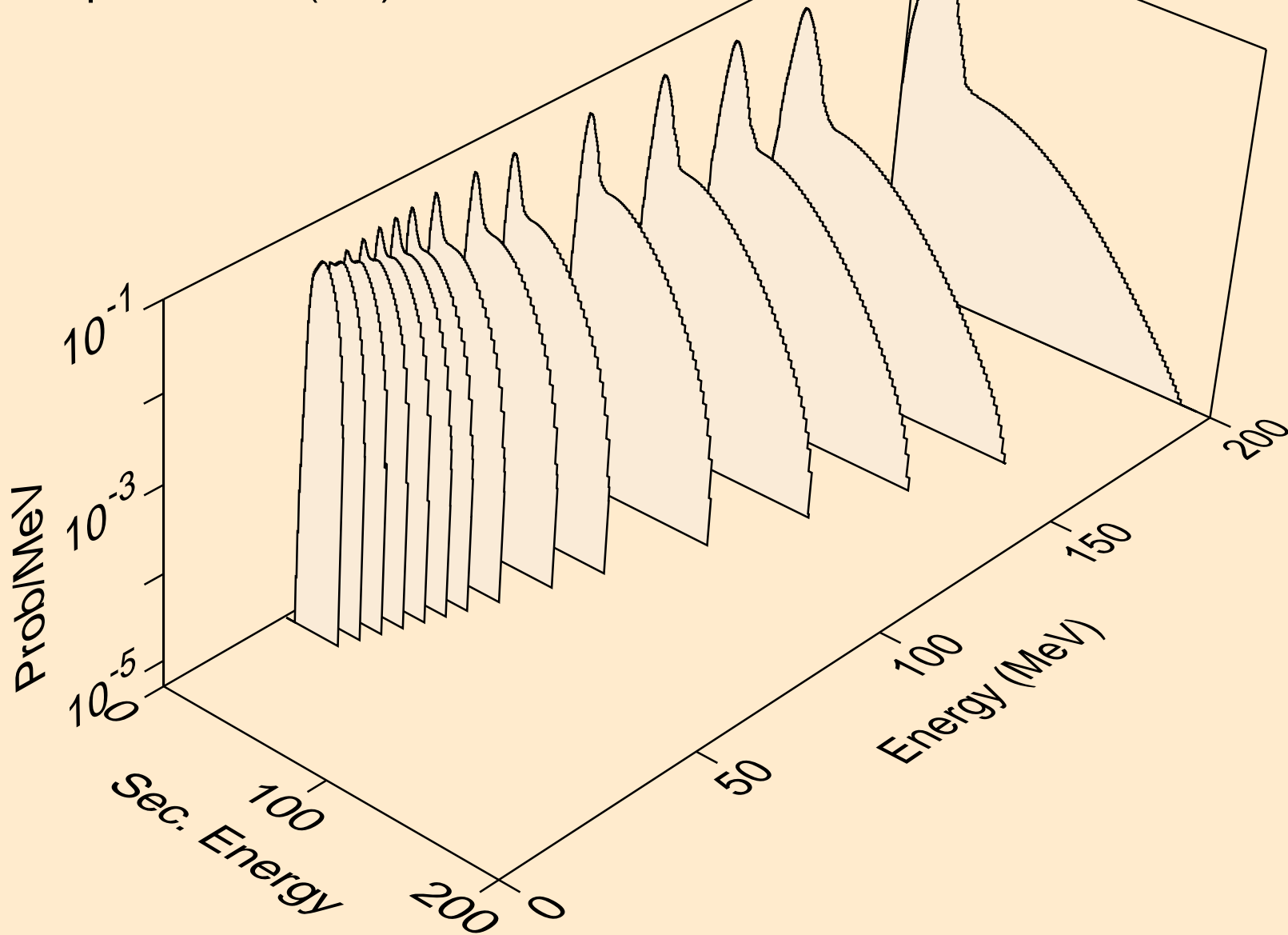


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
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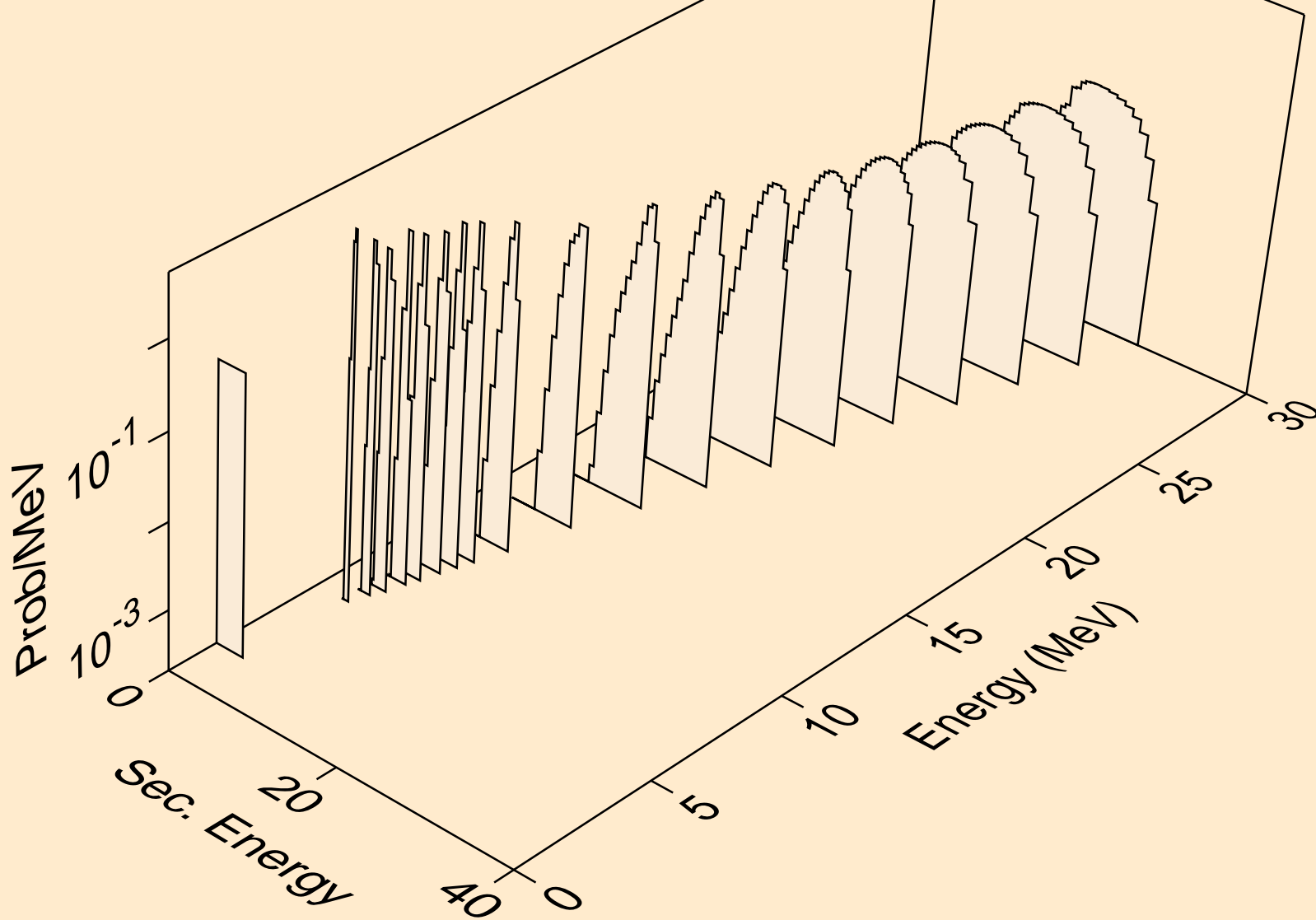




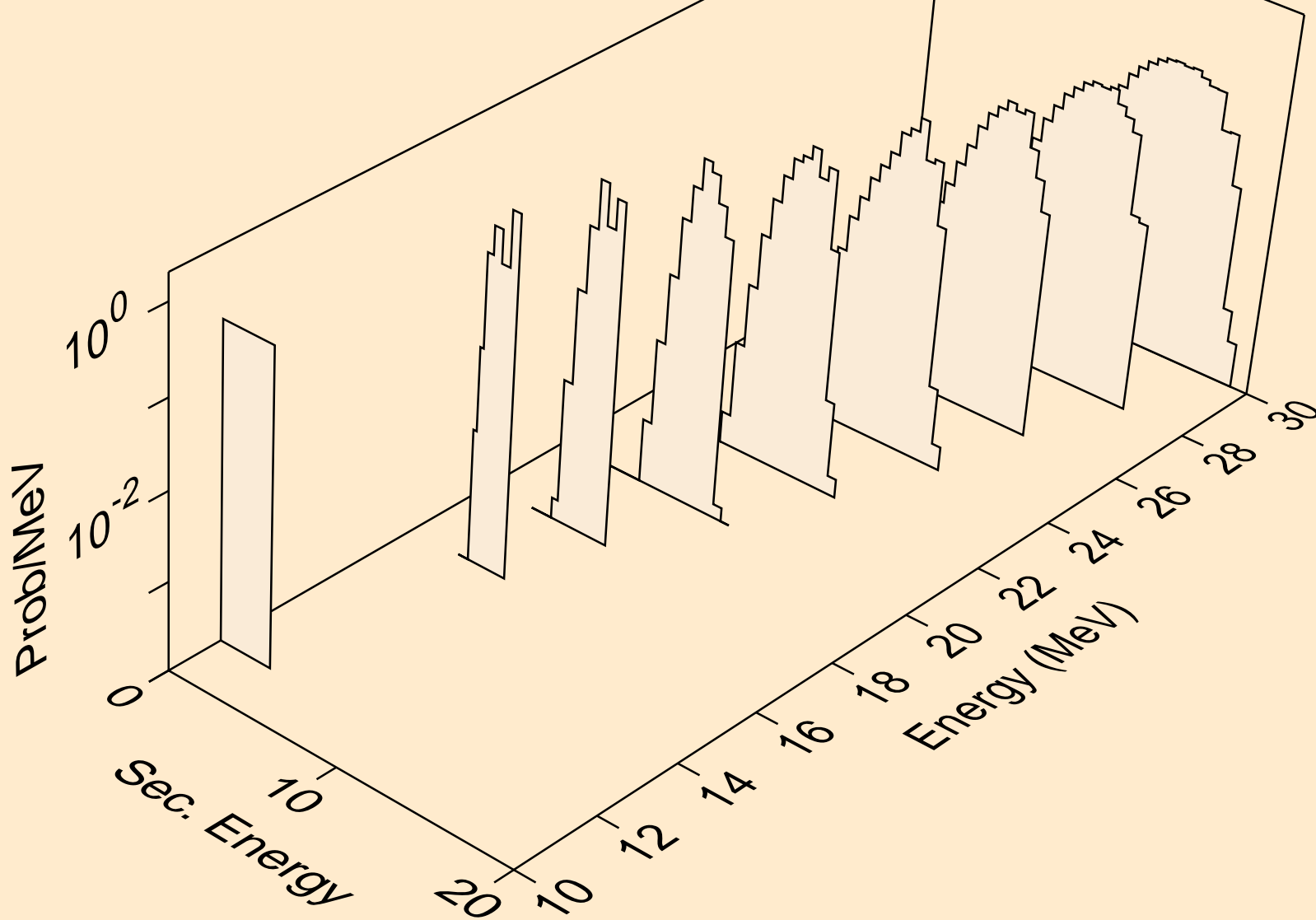
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alphas from (n,x)



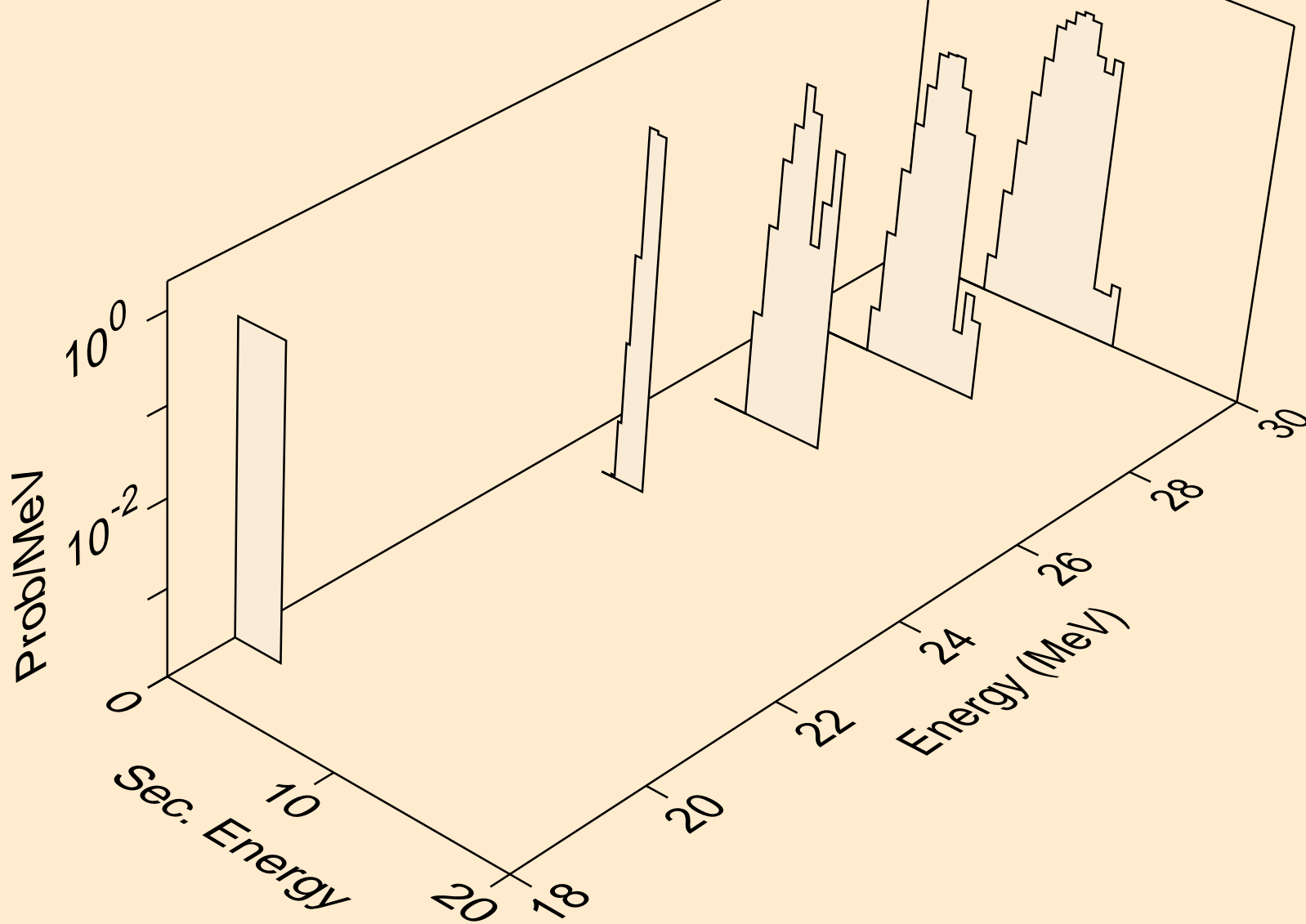
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



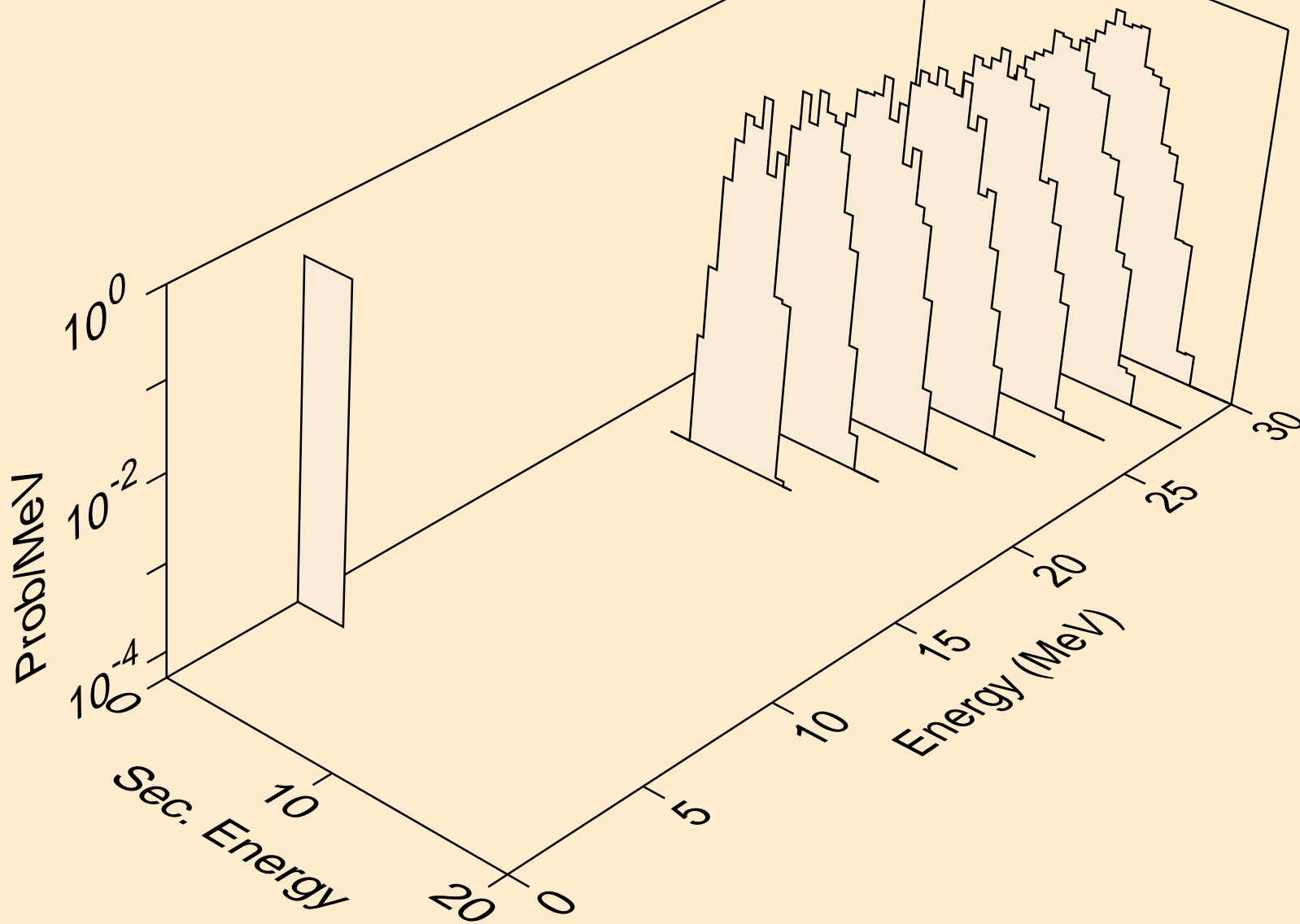
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alphas from (n,2n)a



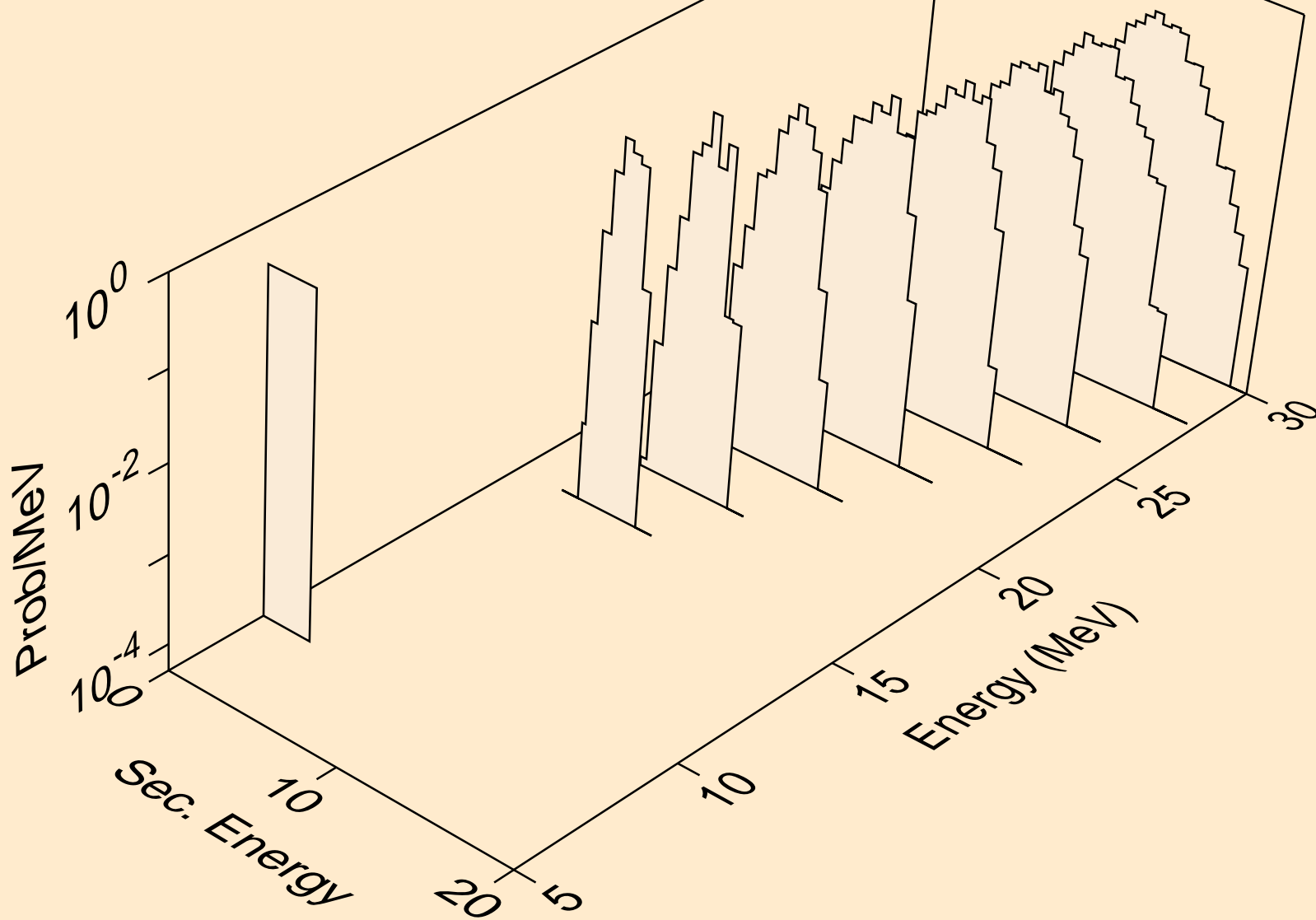
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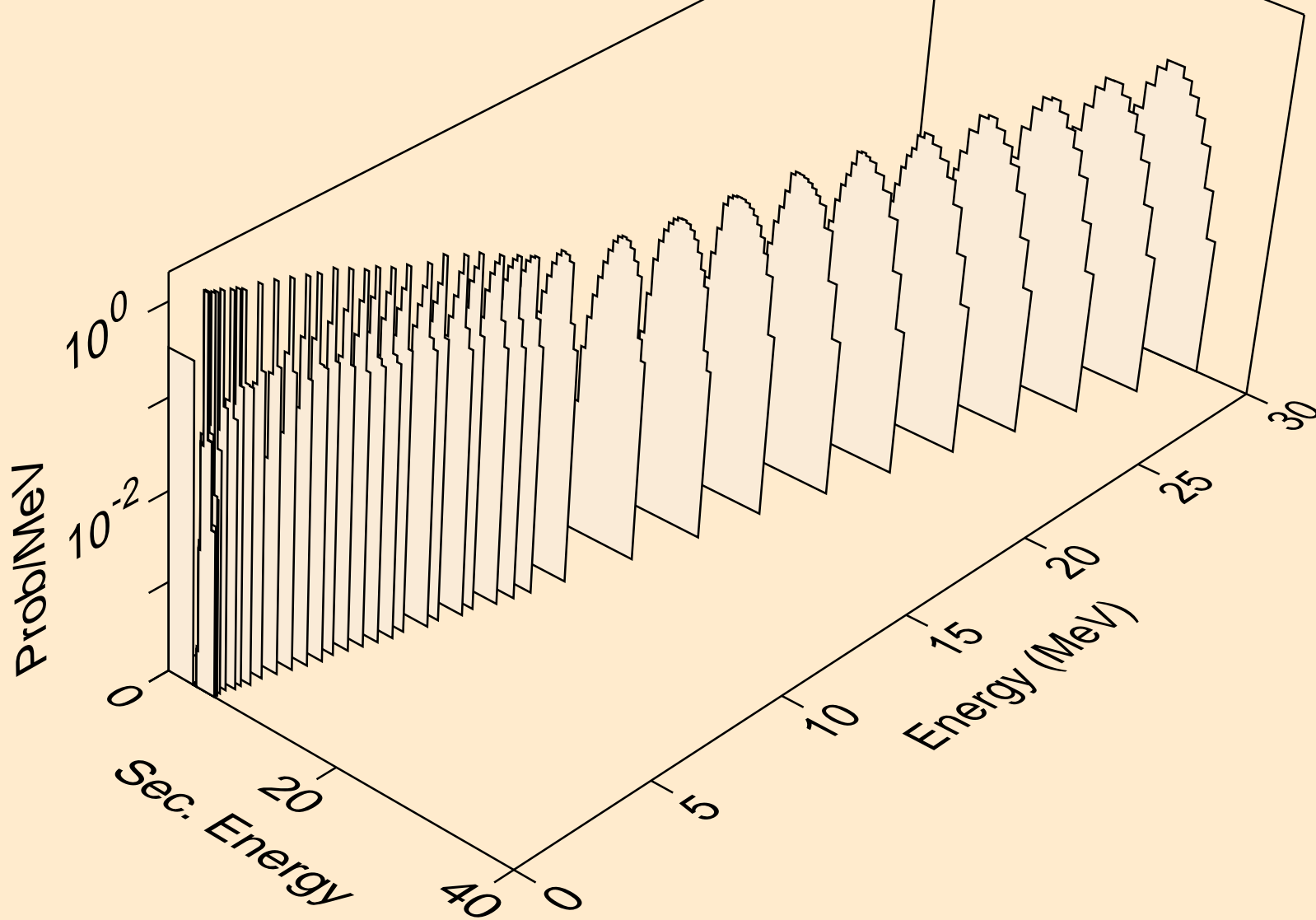
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)2a



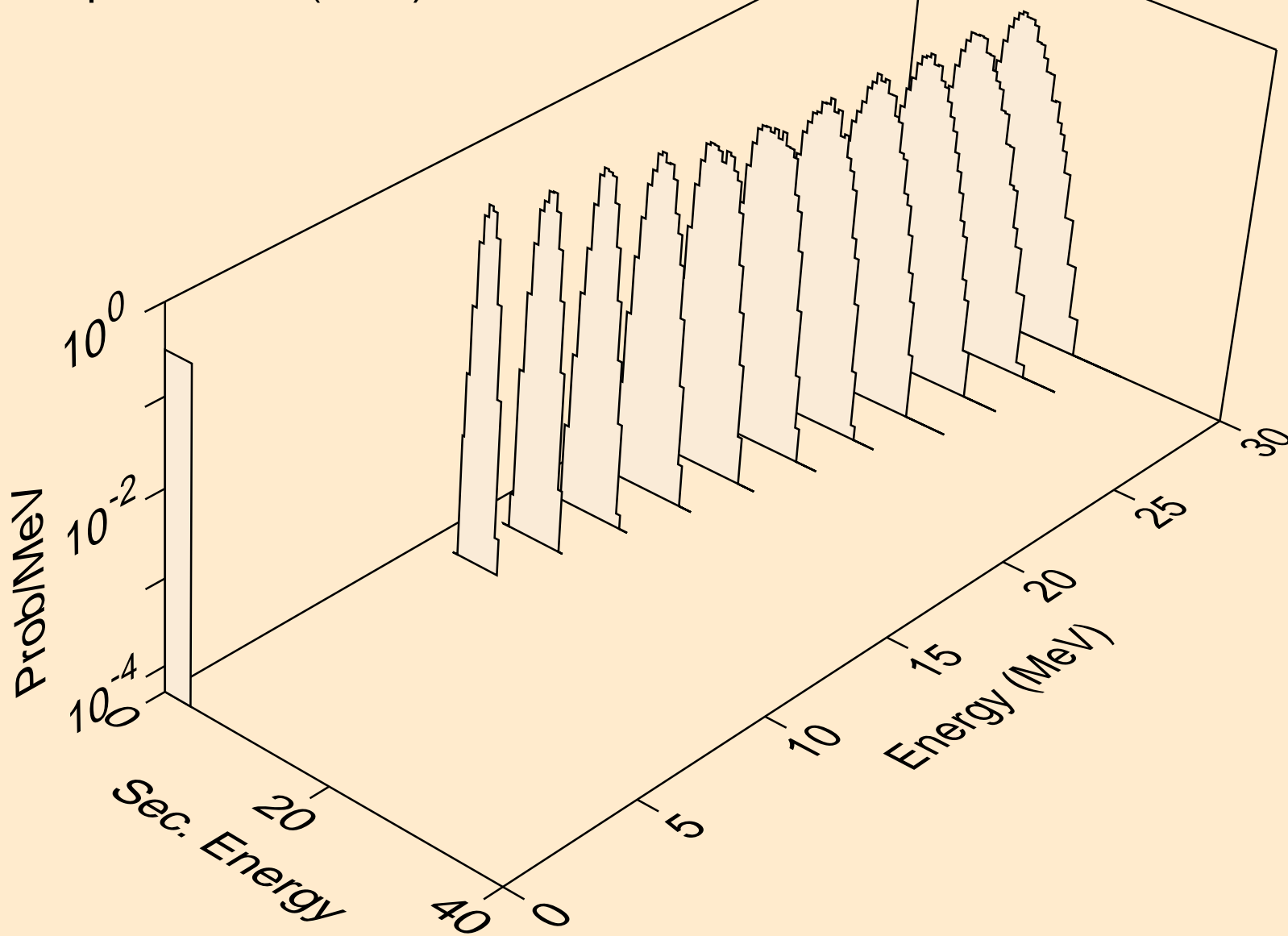
SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,npa)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)

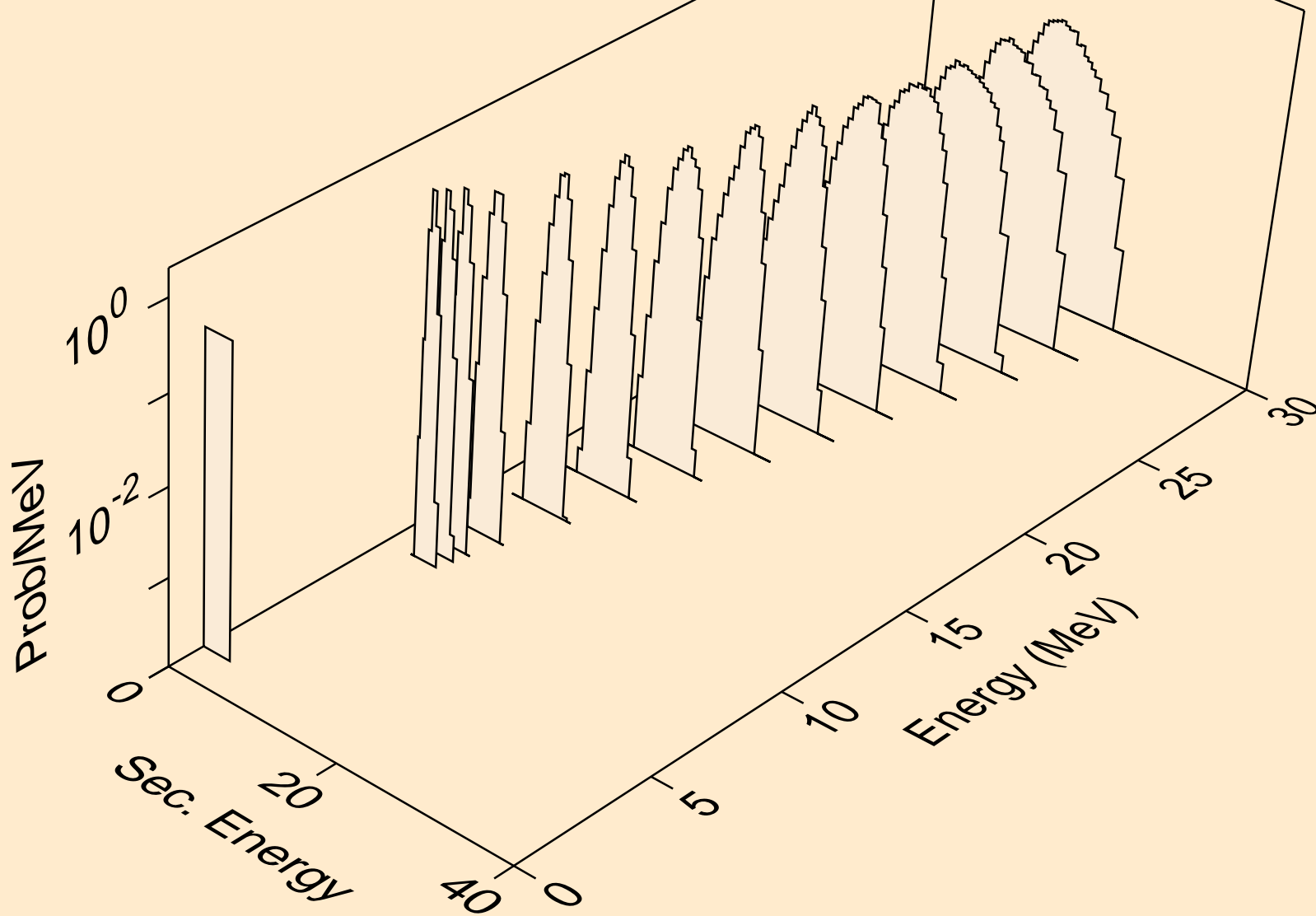


SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)





SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,pa)



SB117 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,da)

