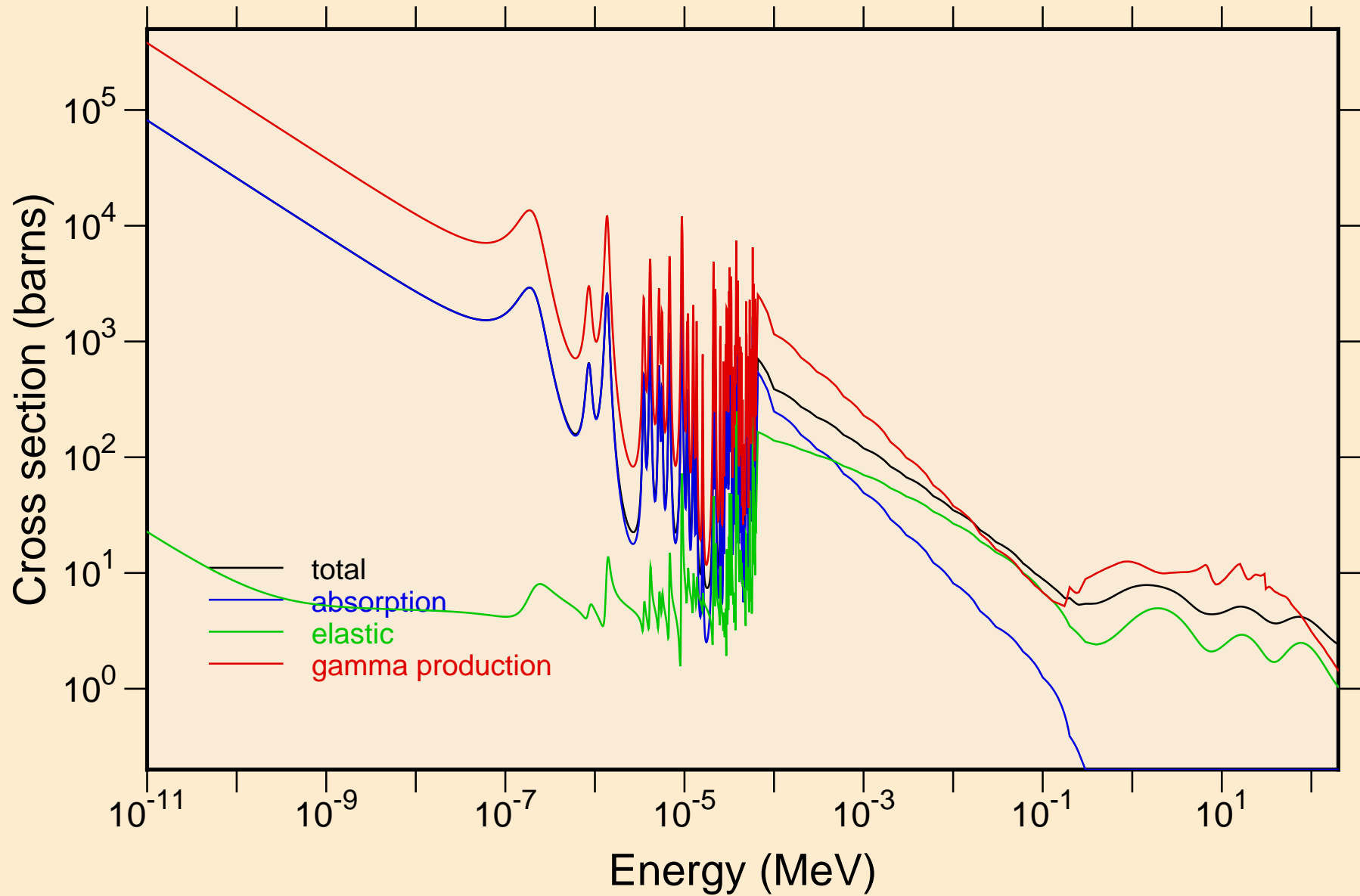
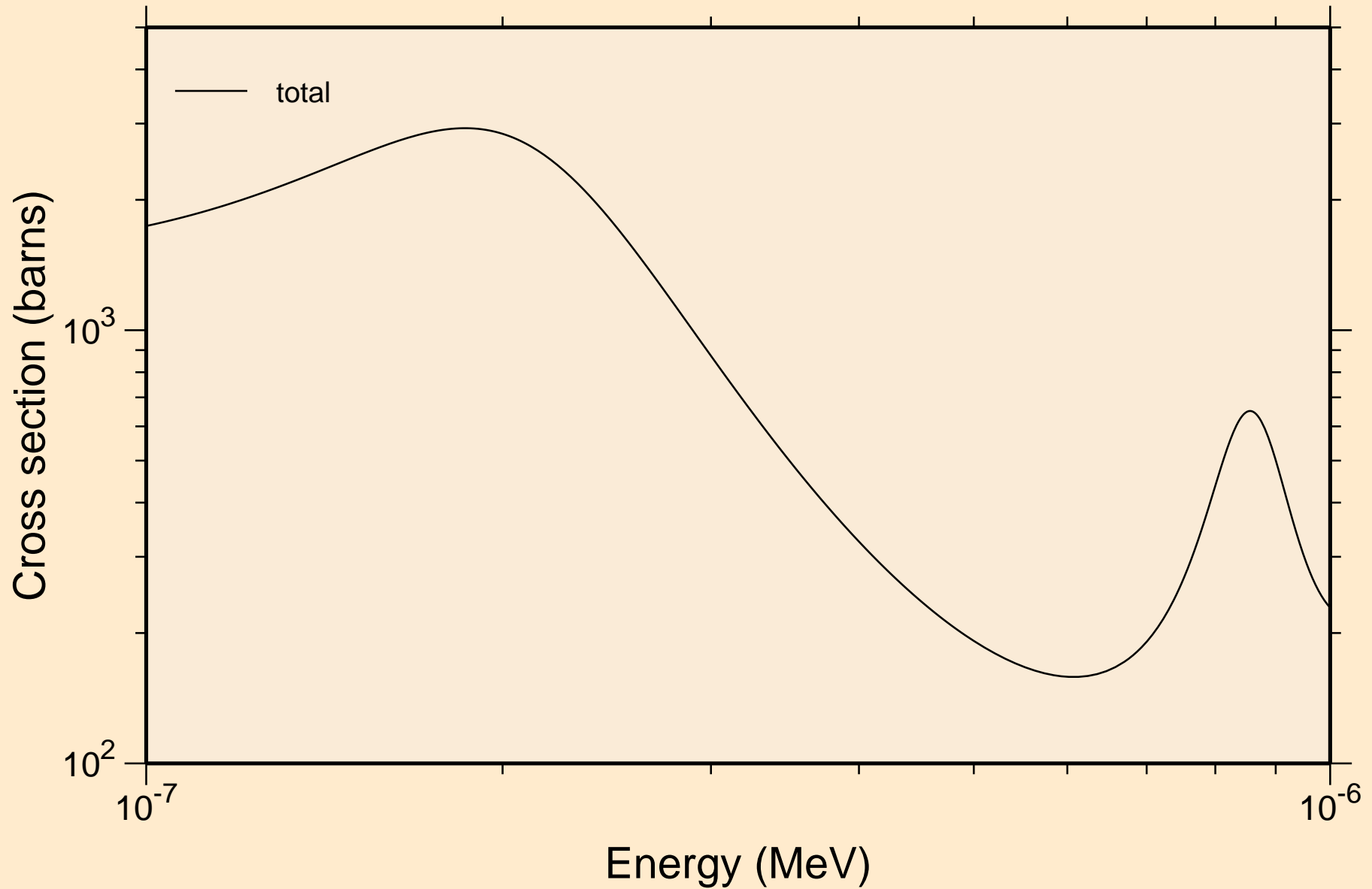


# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

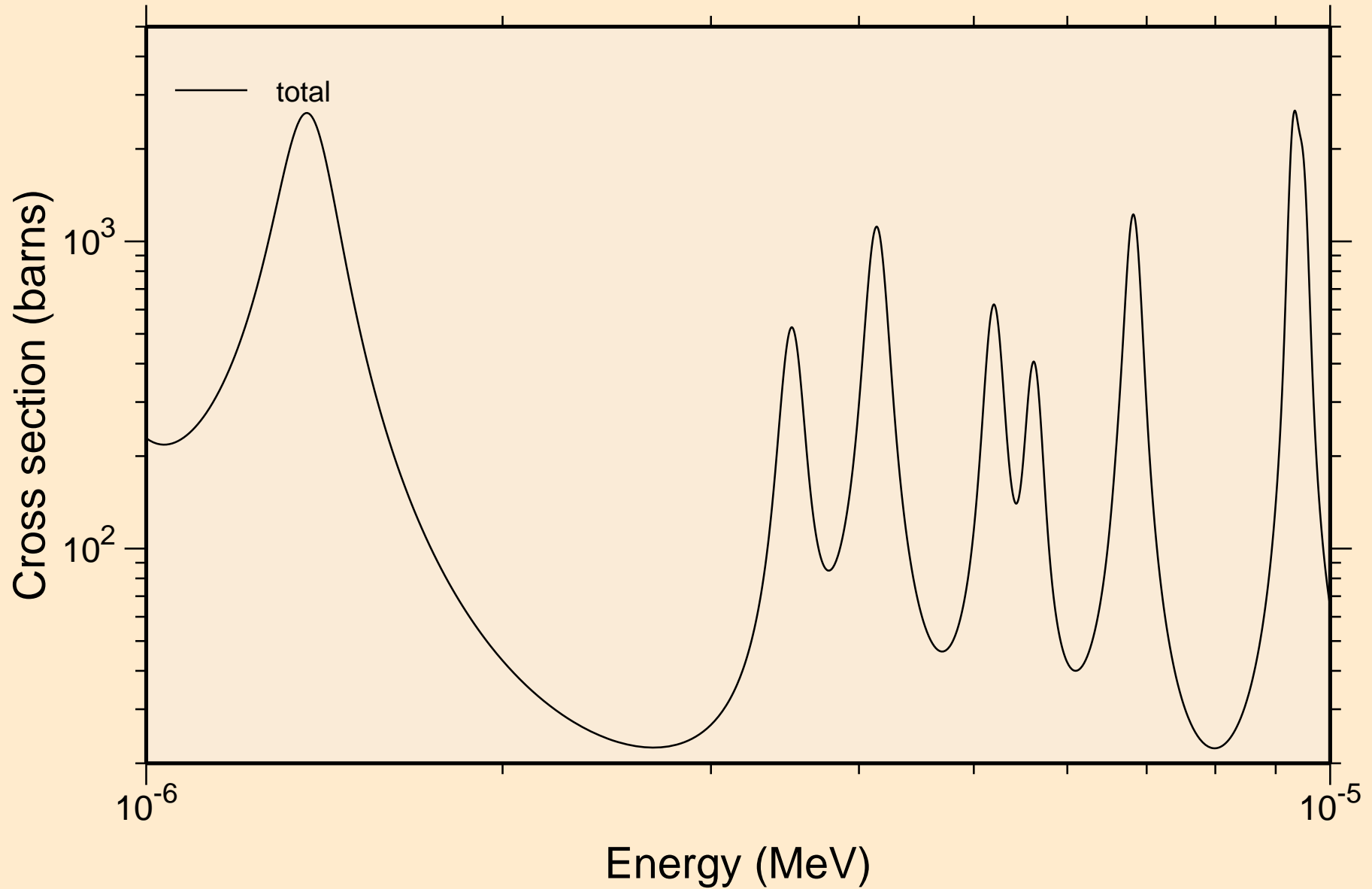
## Principal cross sections



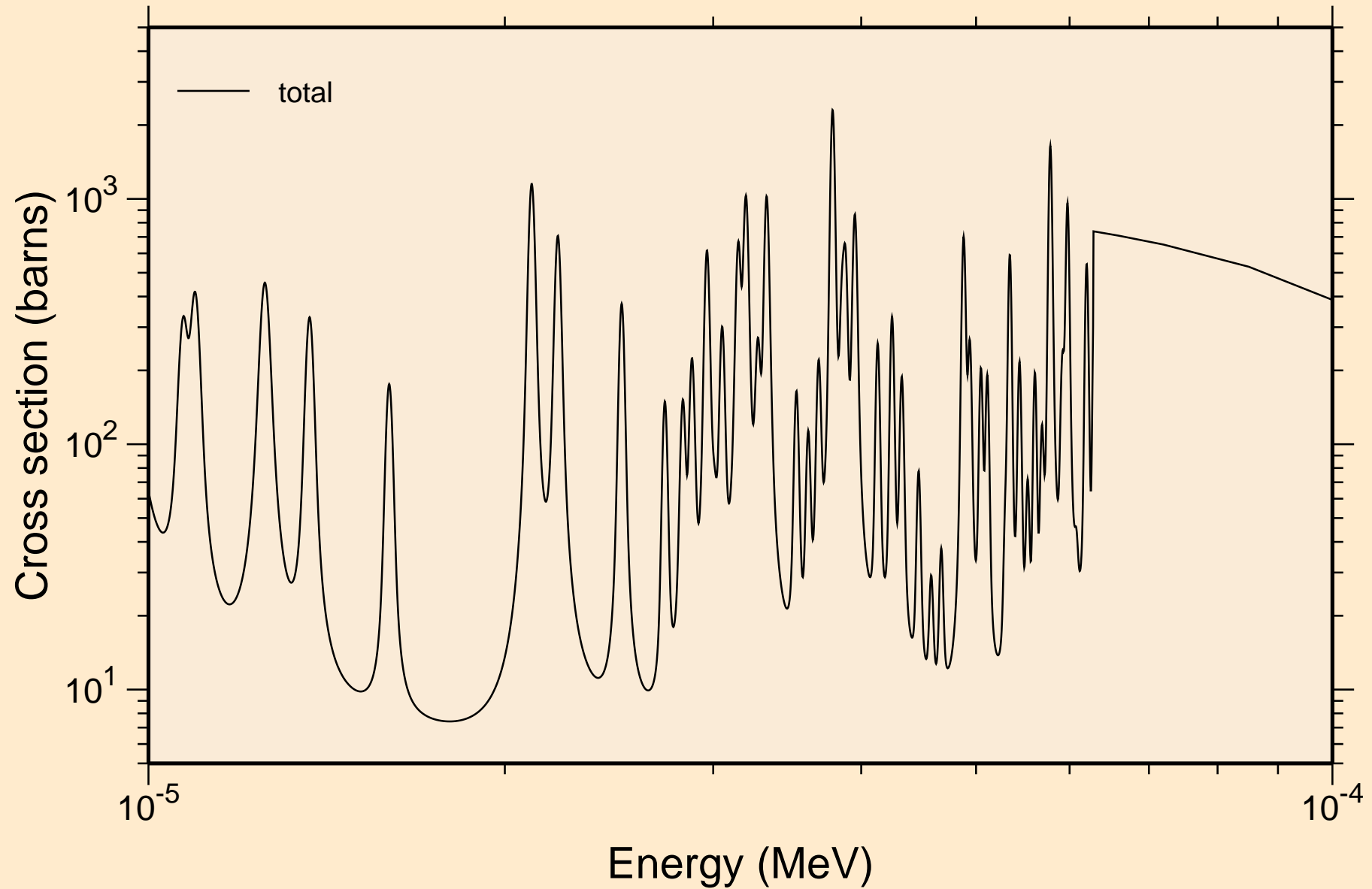
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



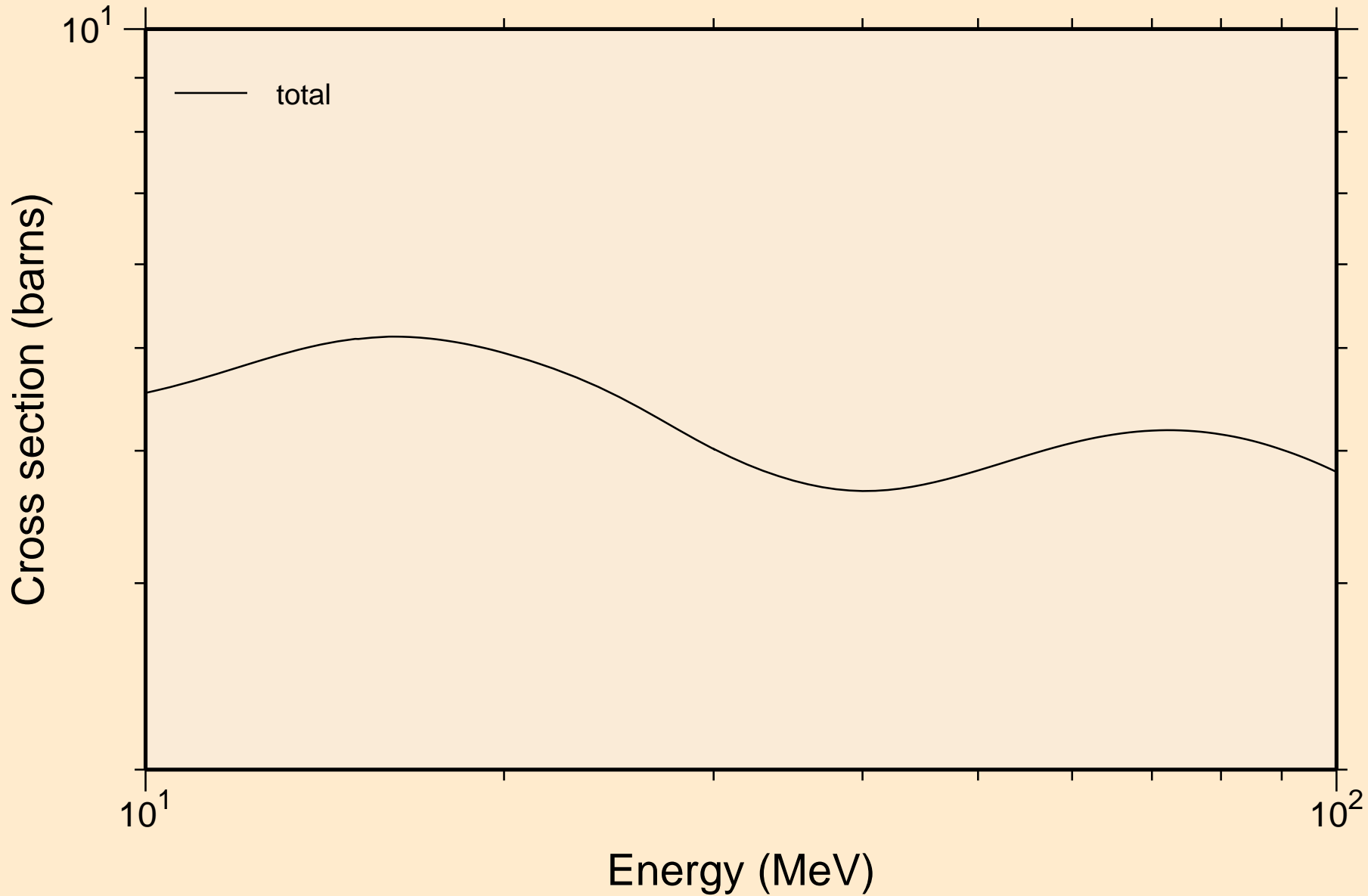
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



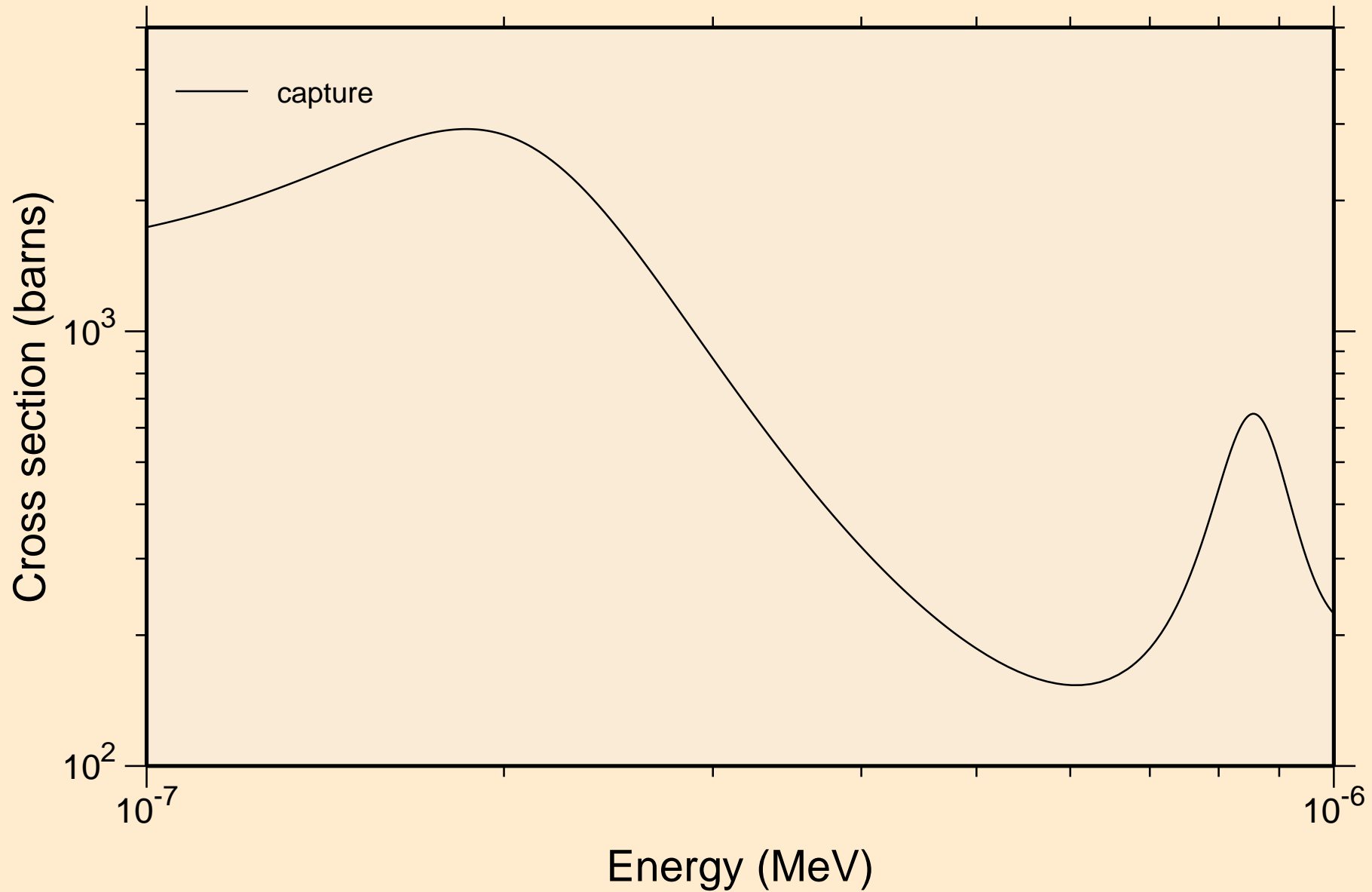
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



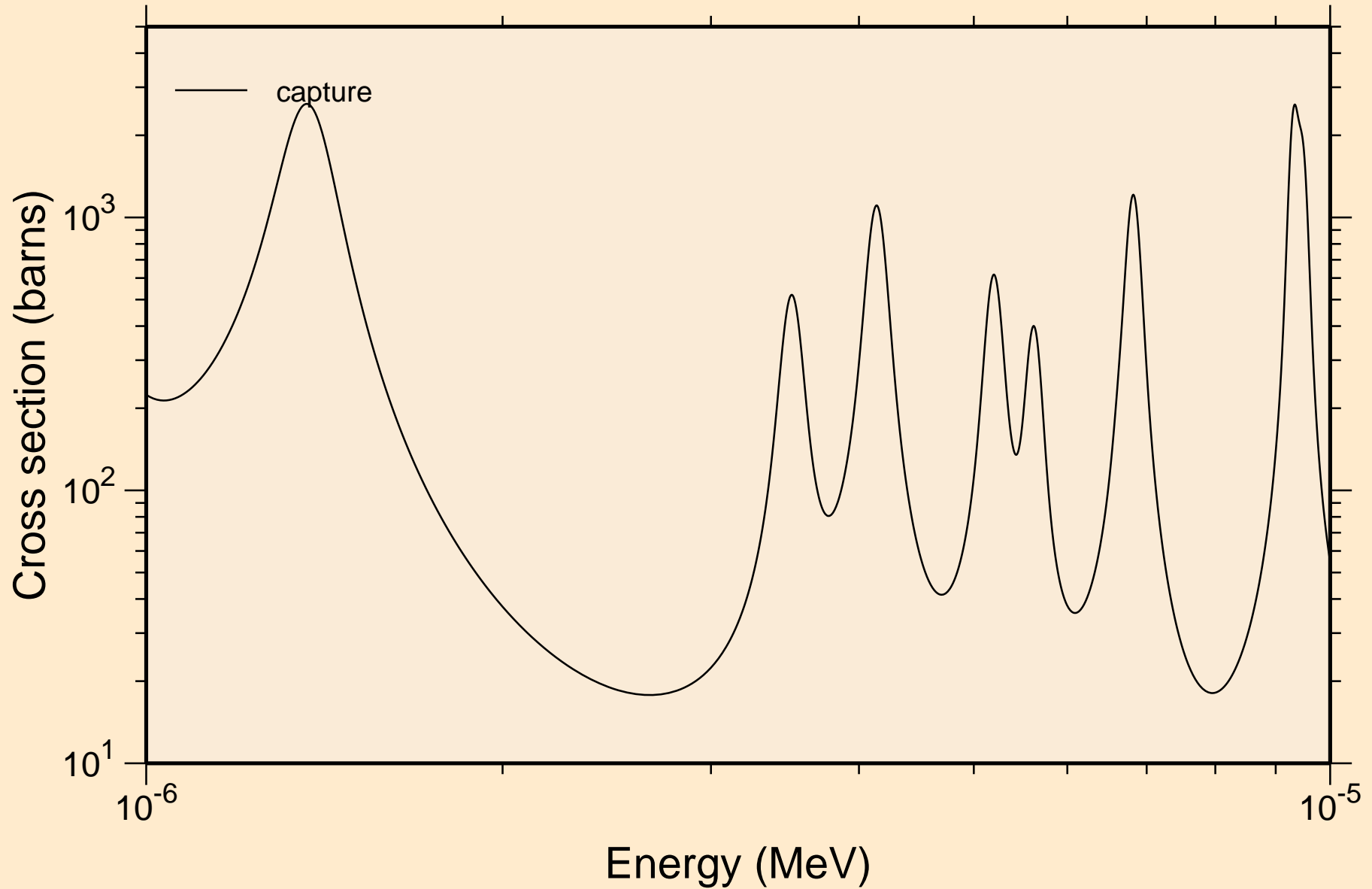
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



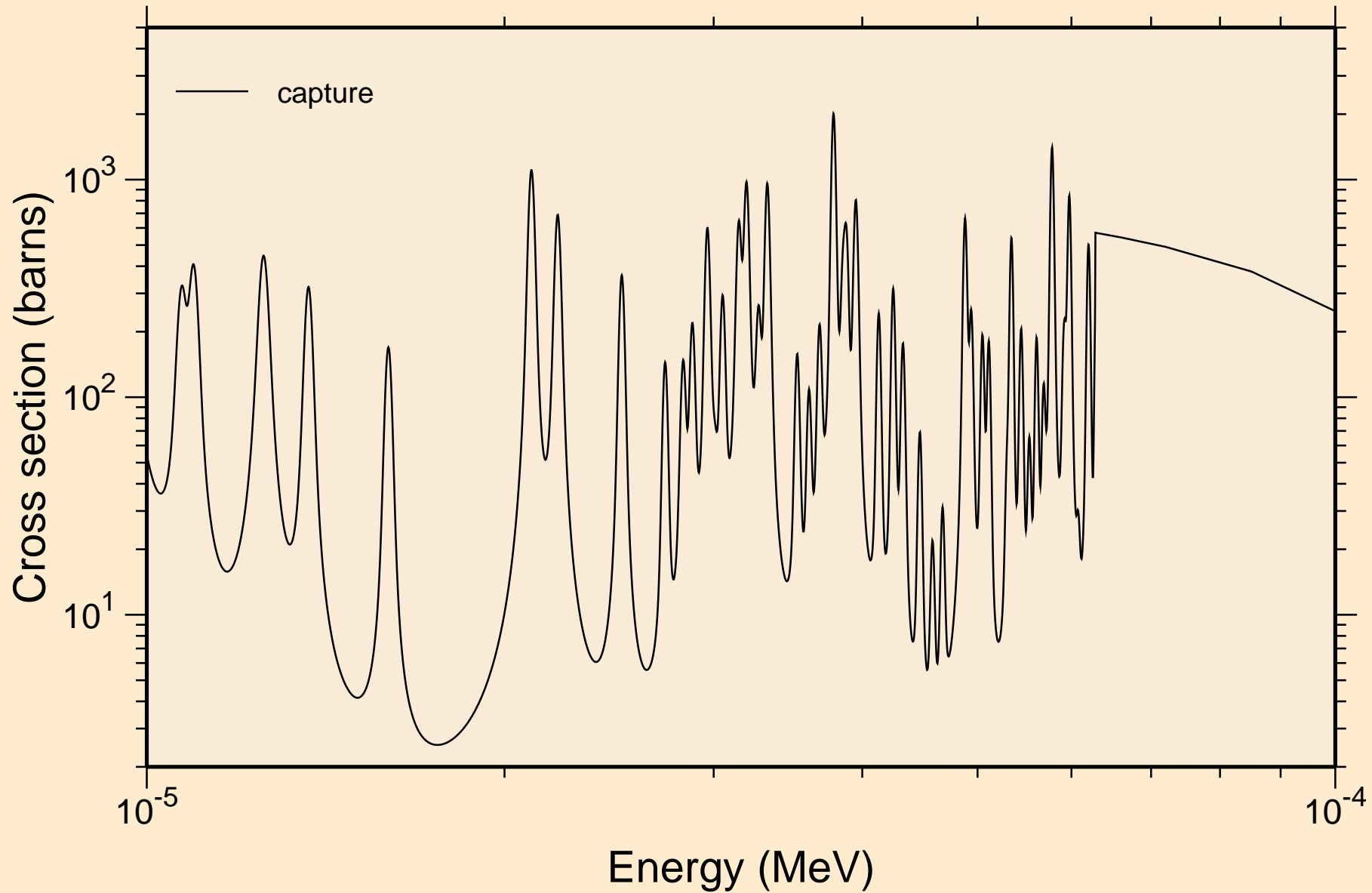
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

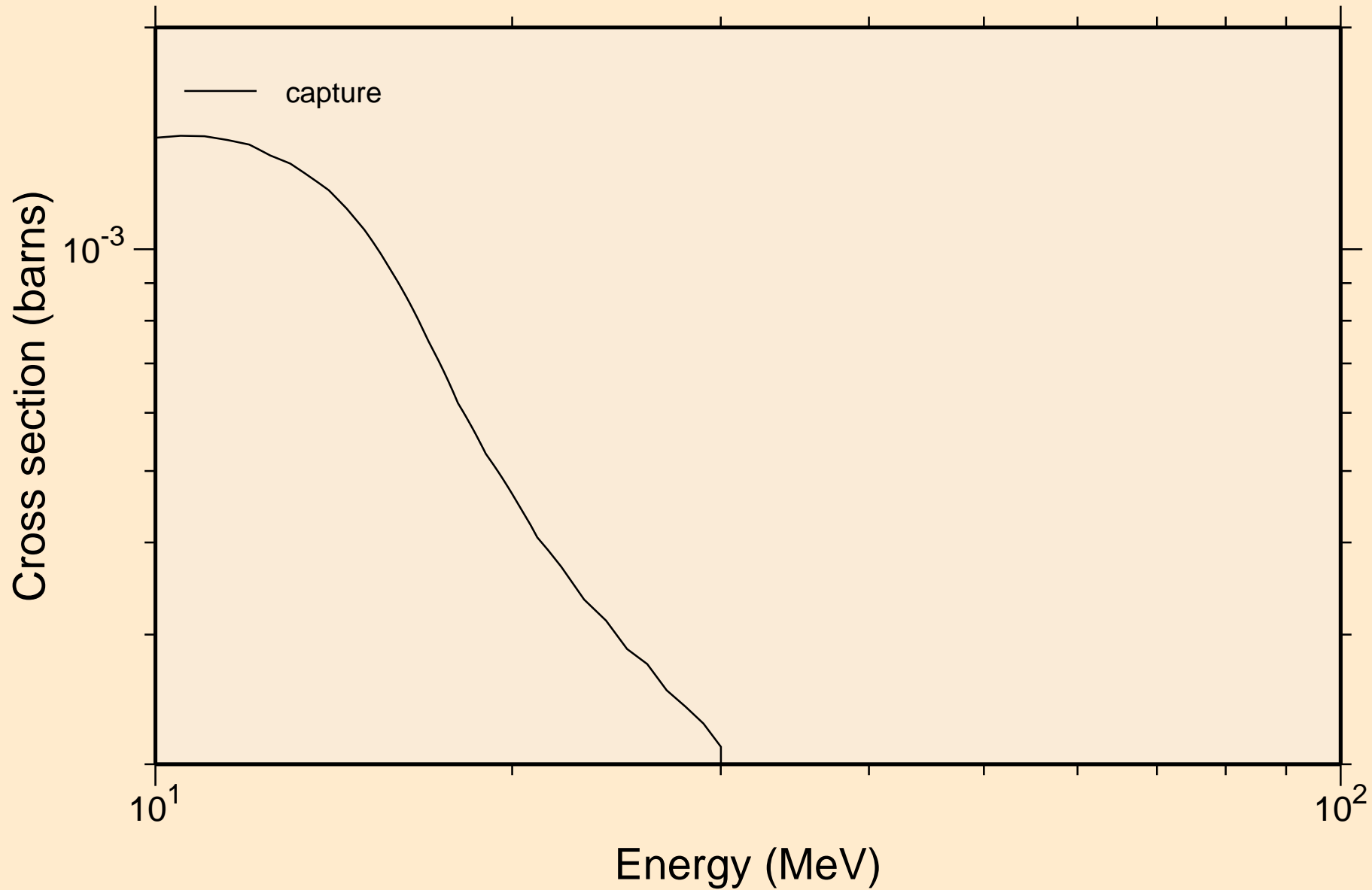


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

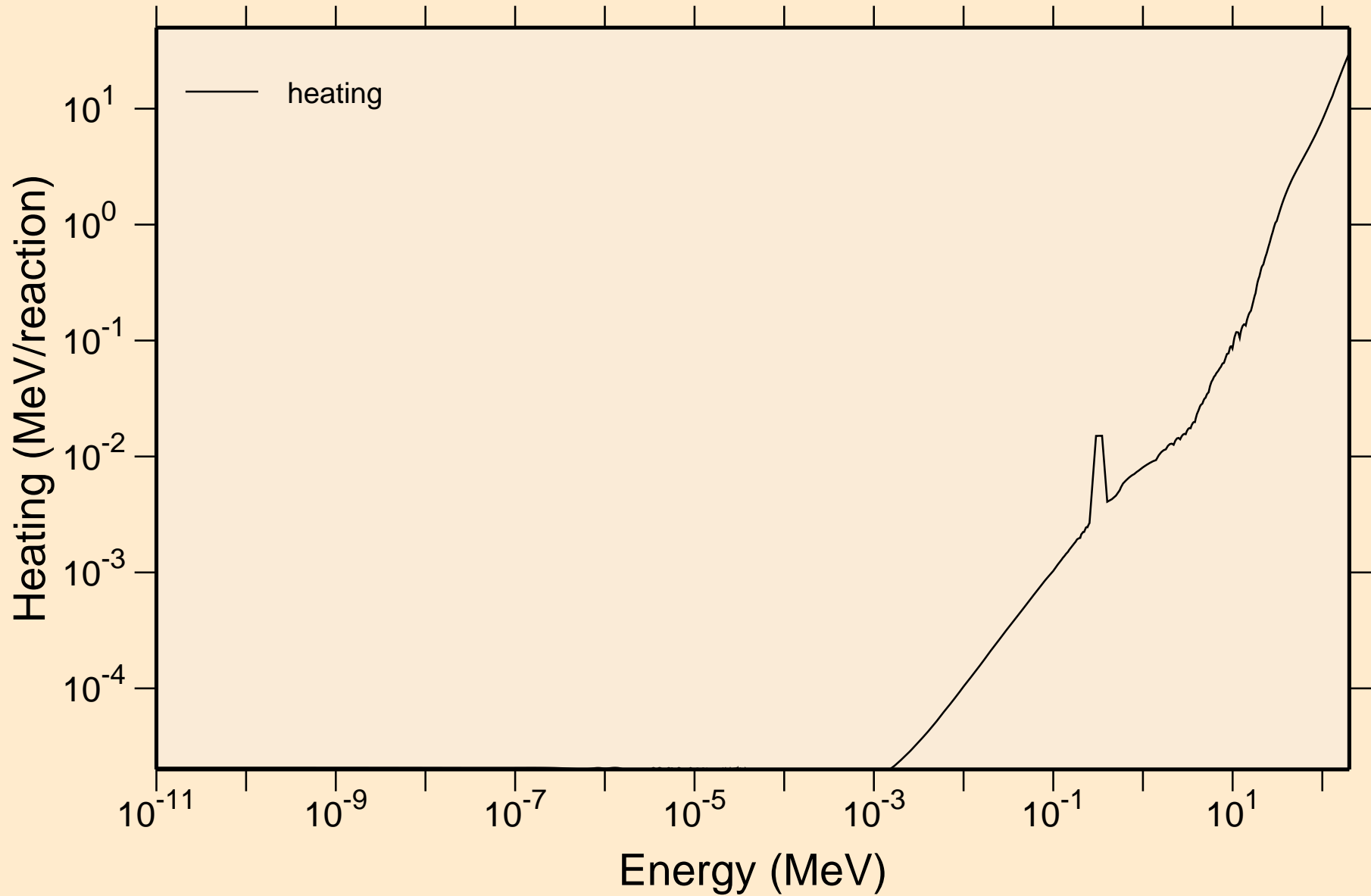




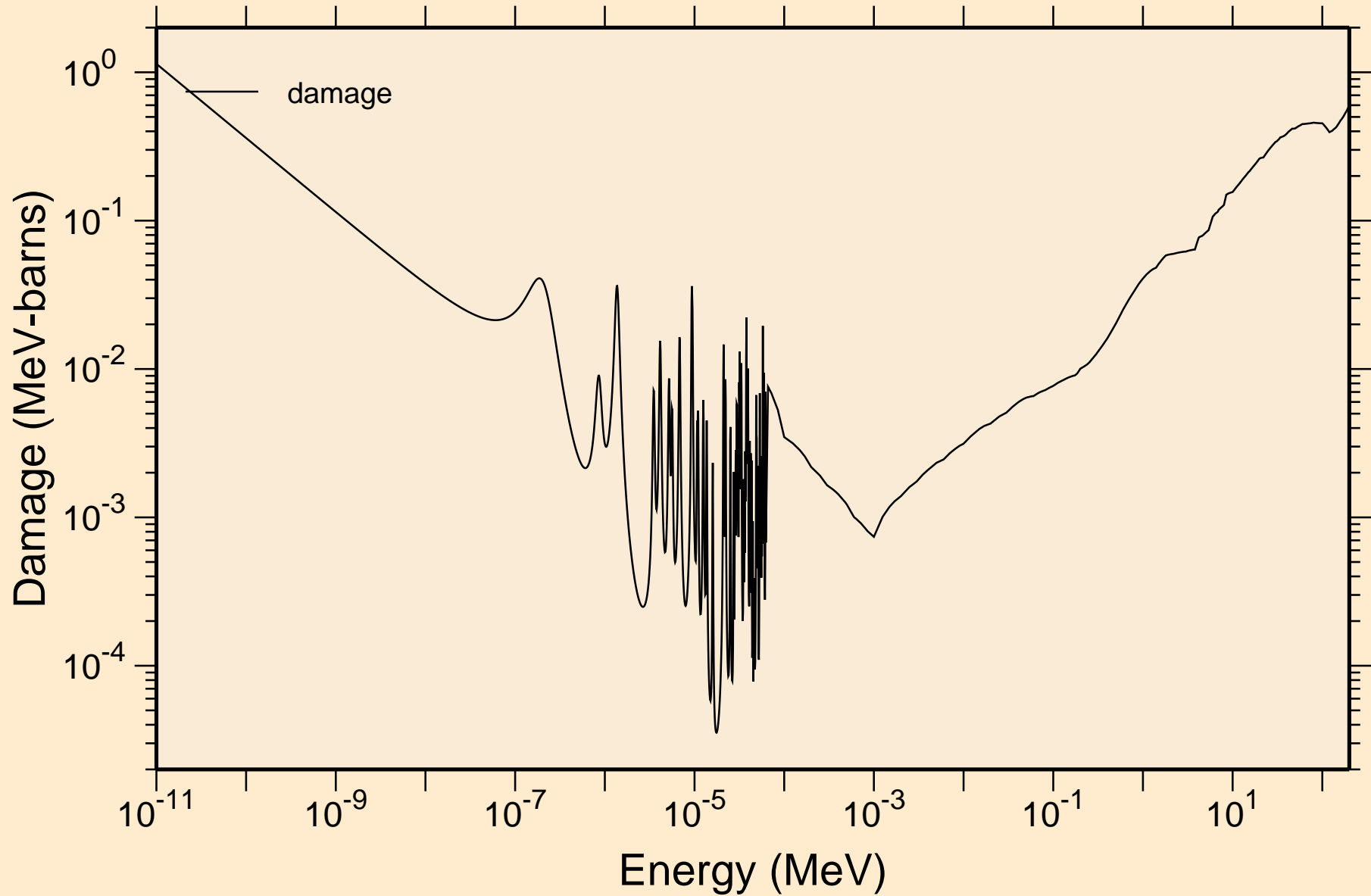
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

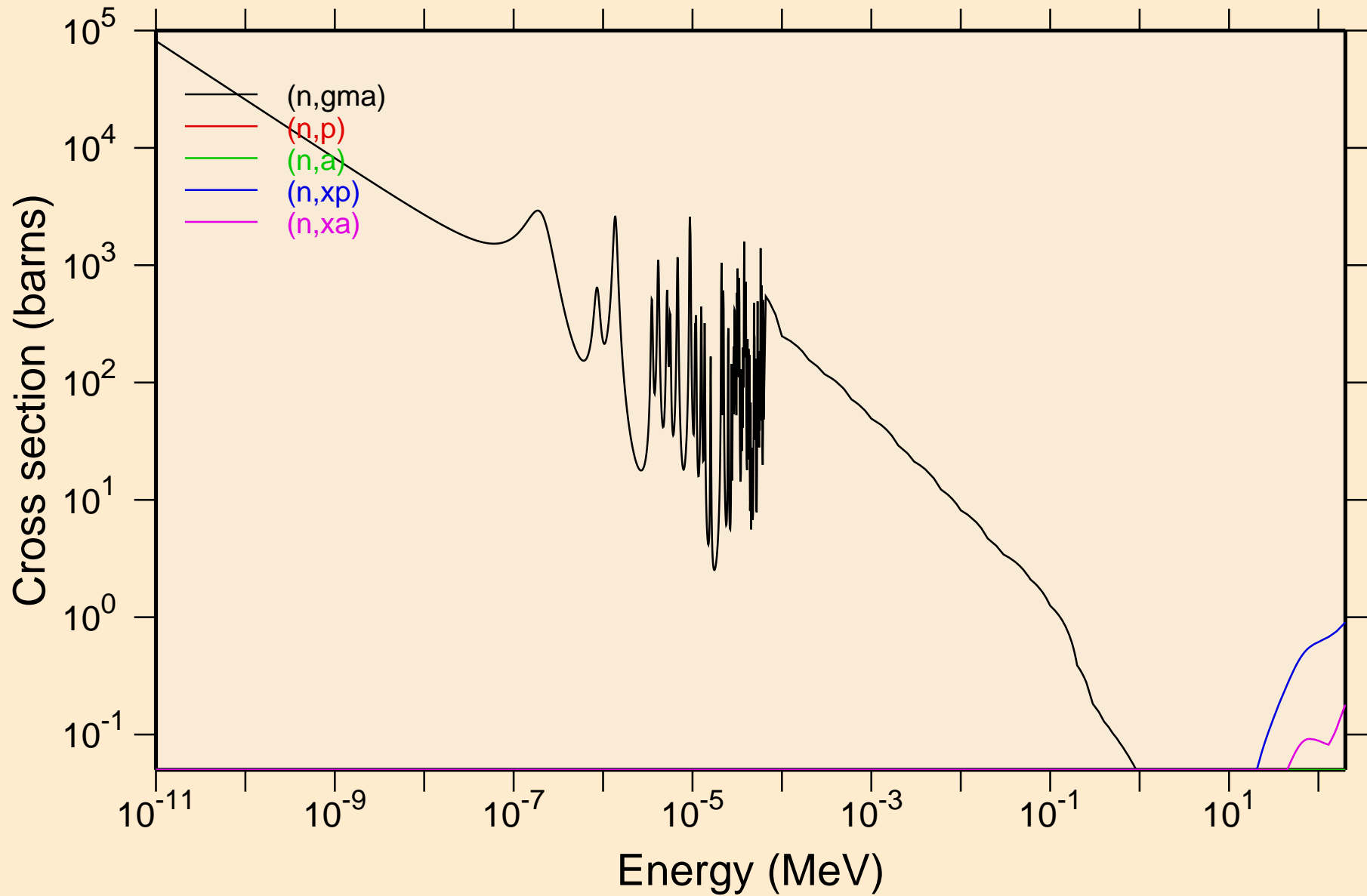


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



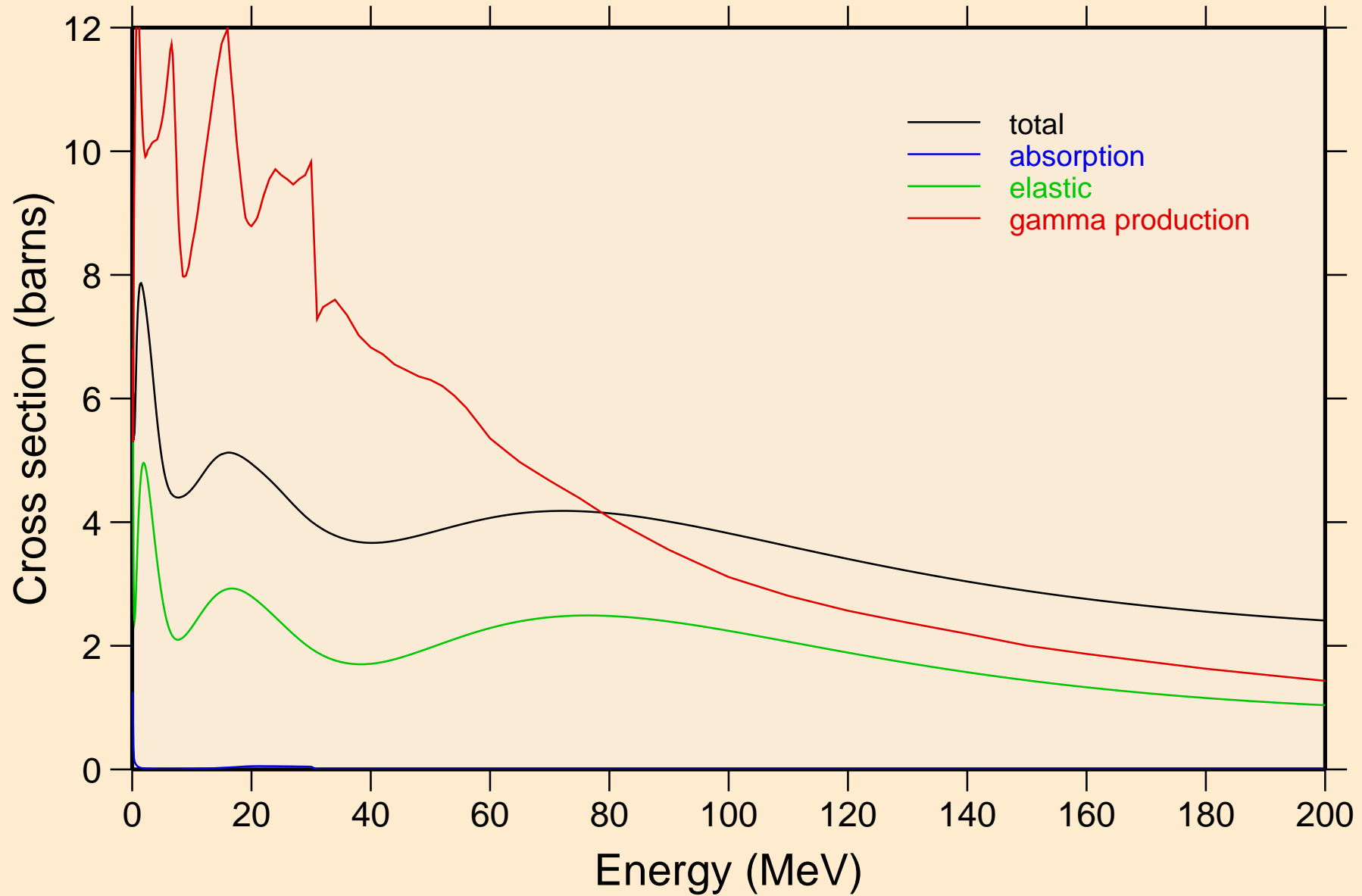
# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

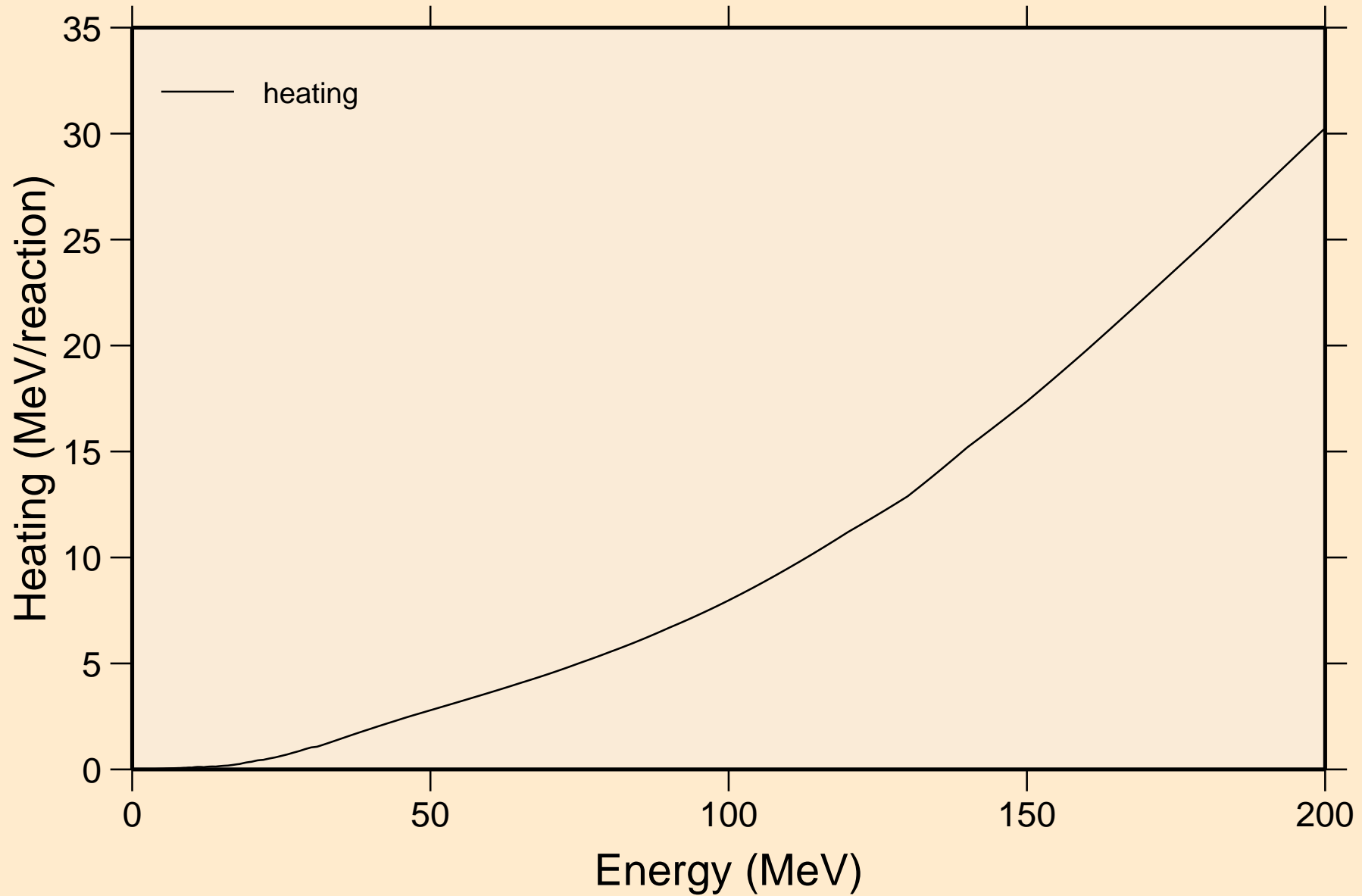


# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

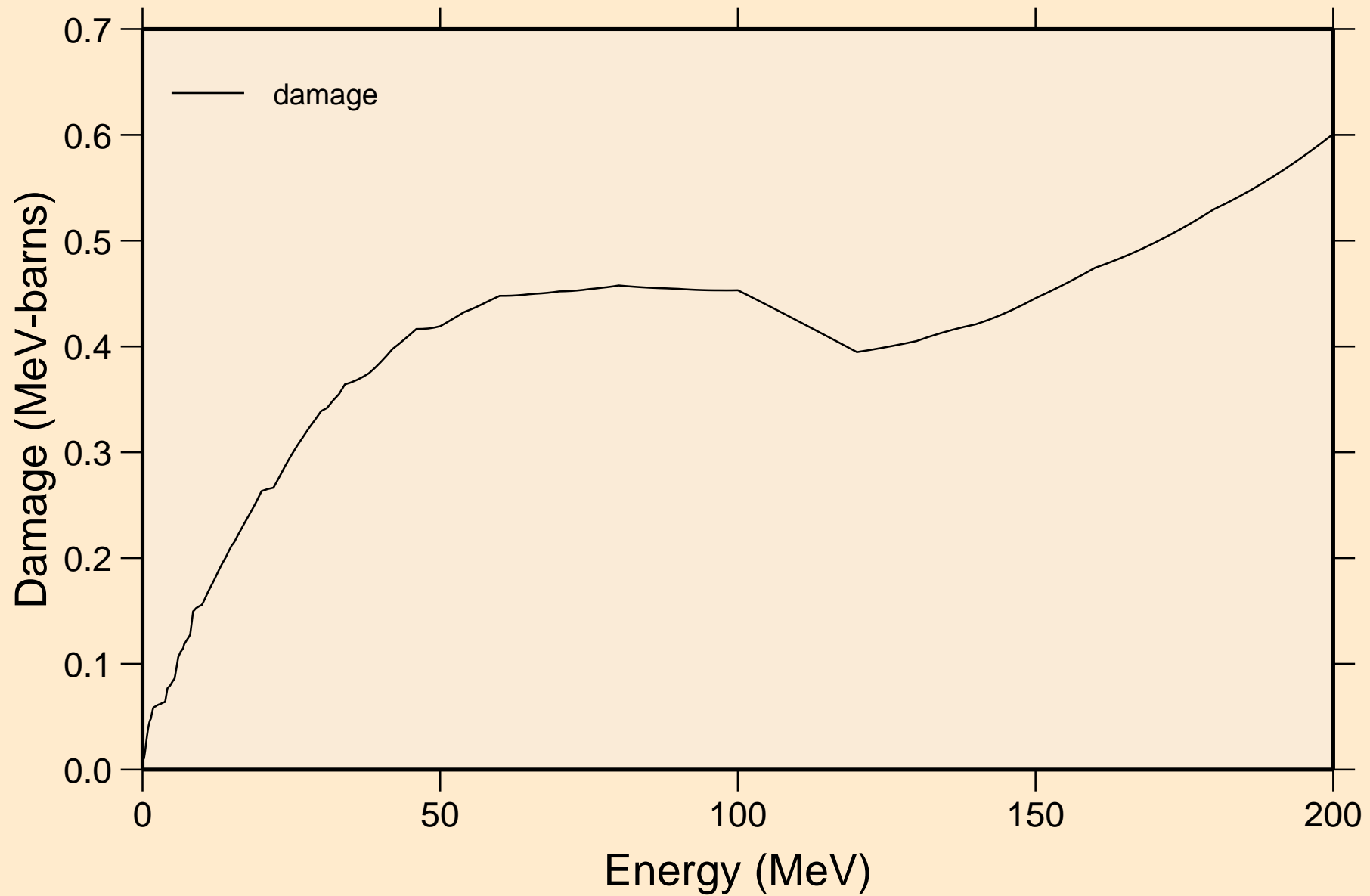
## Principal cross sections



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

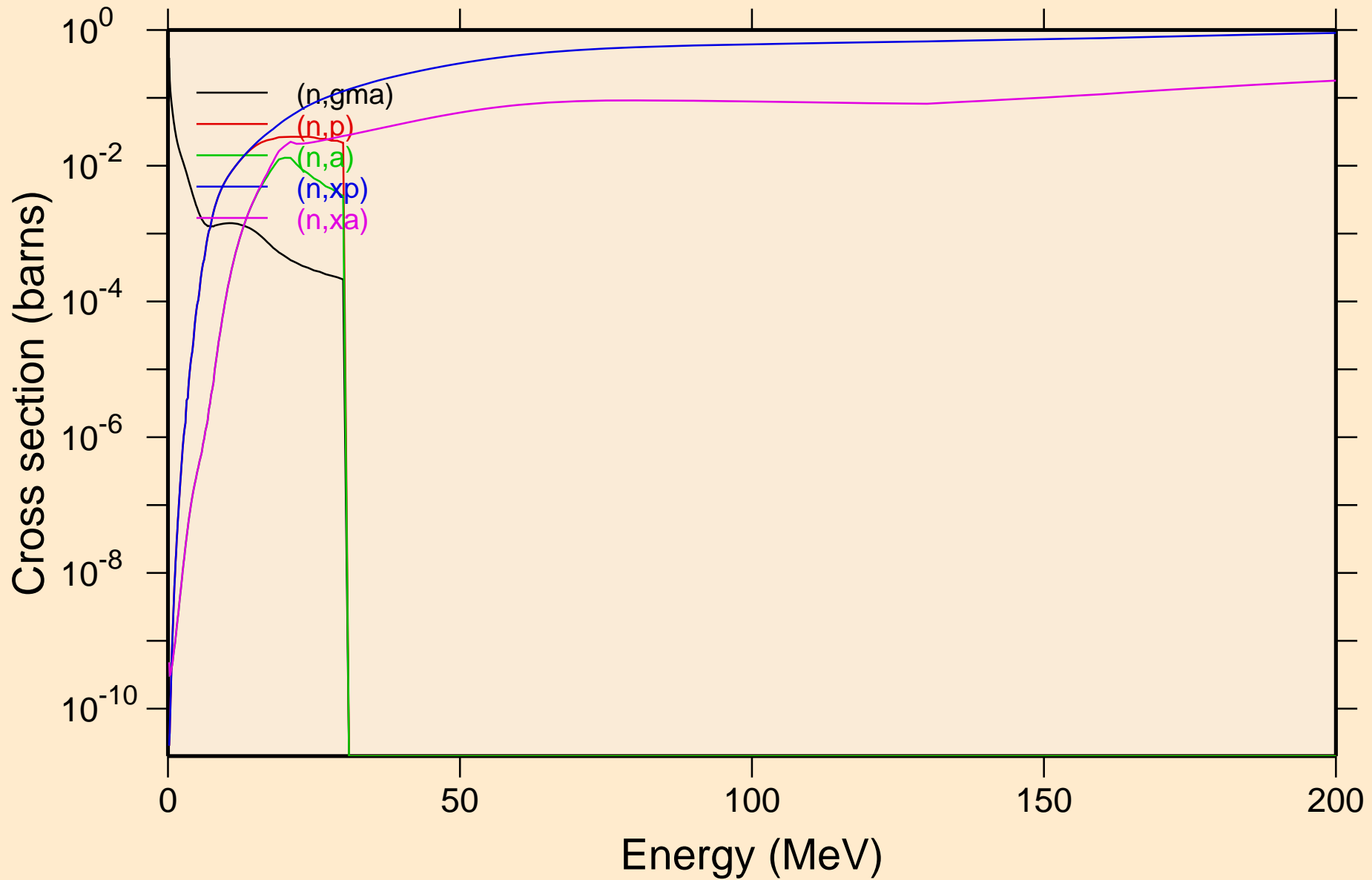


# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K Damage



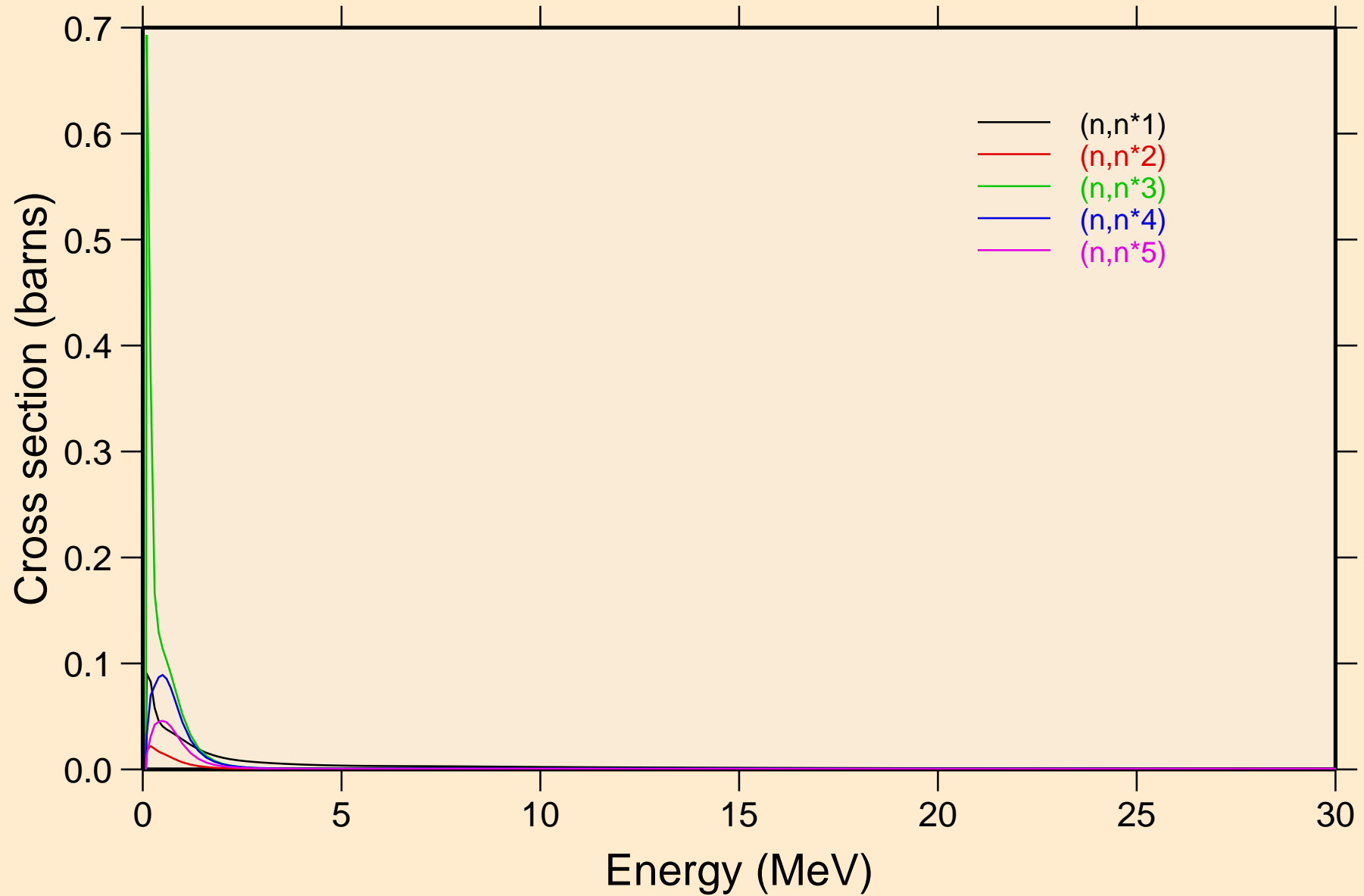
# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

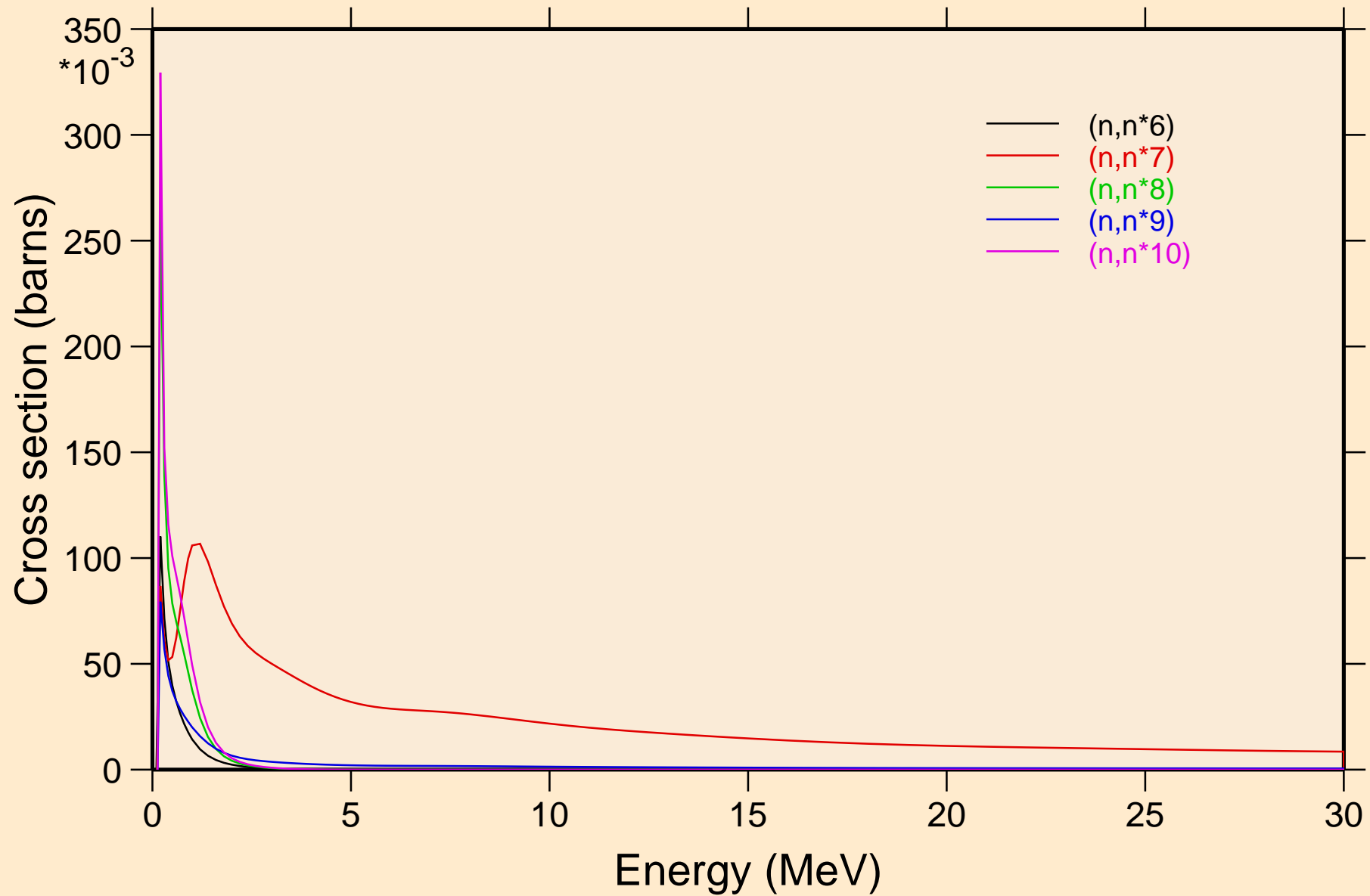




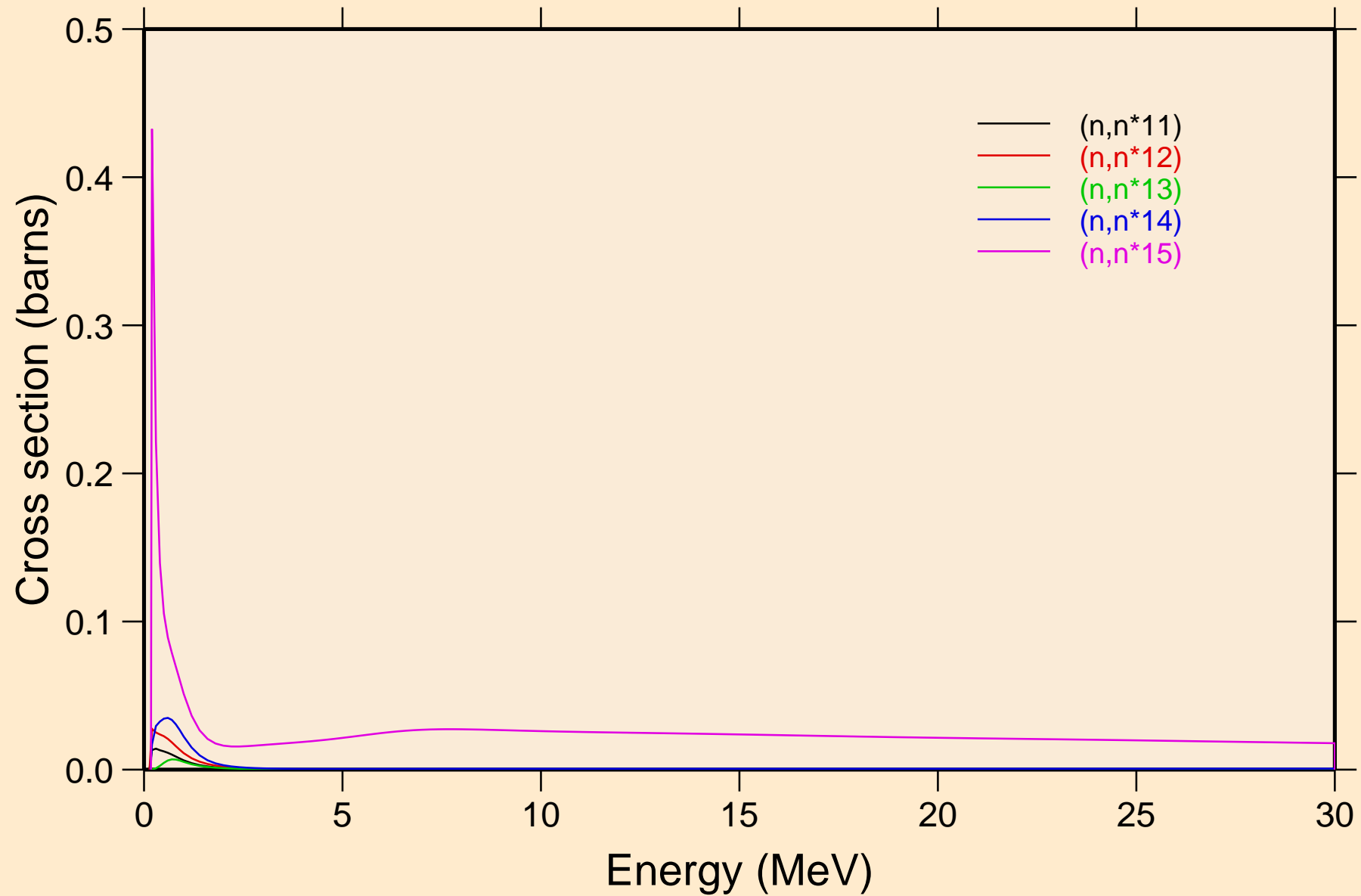
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



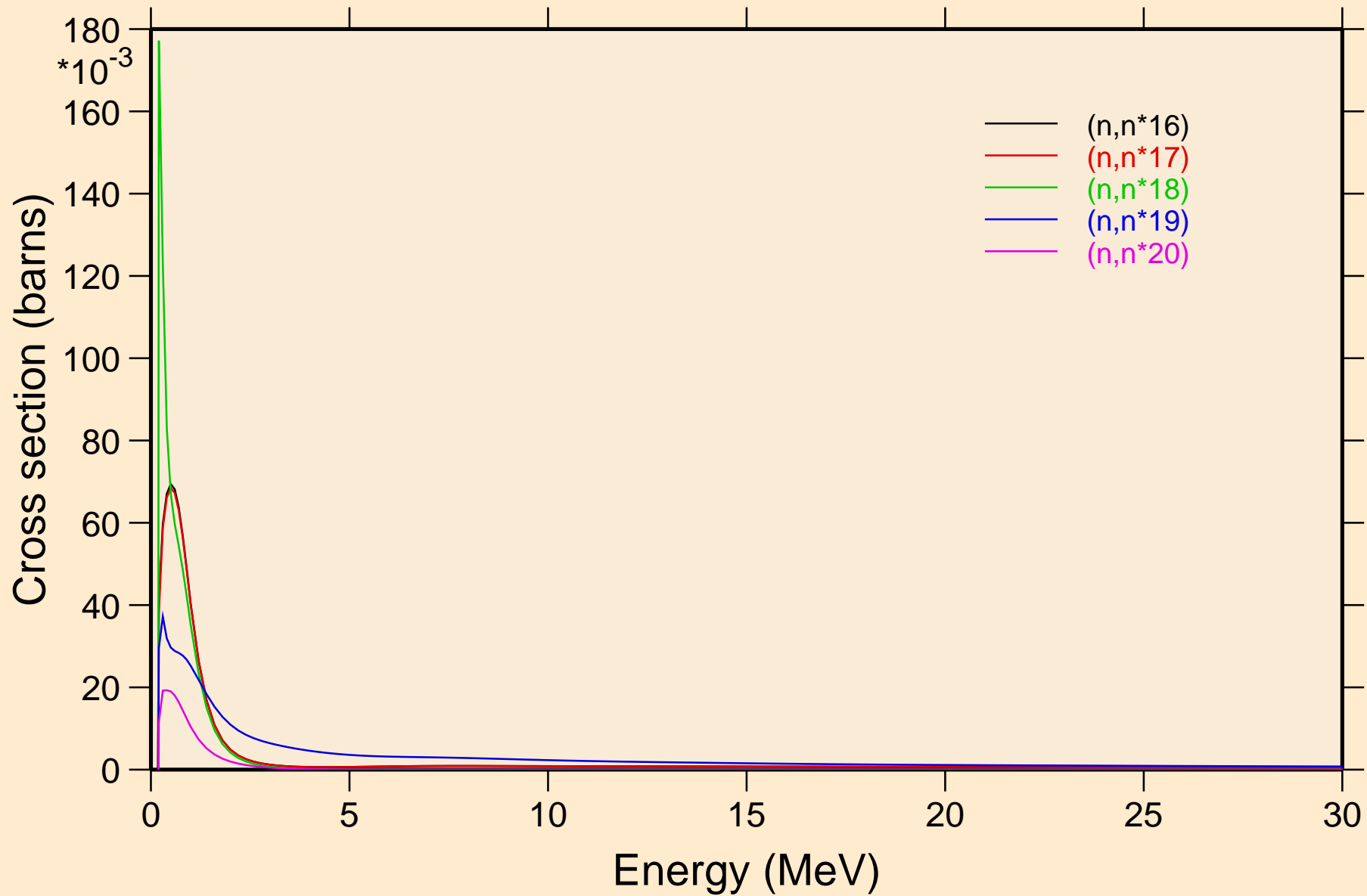
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



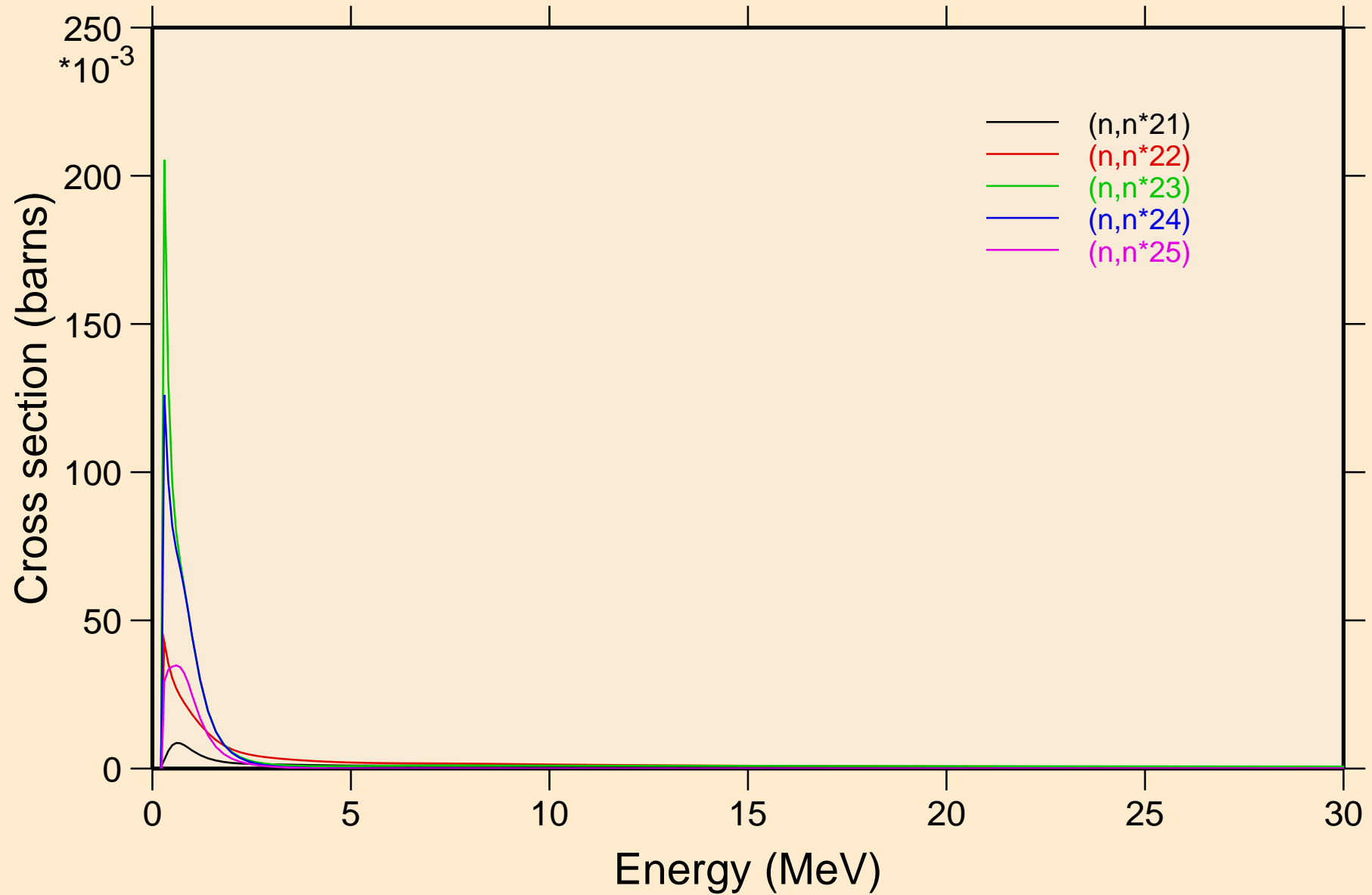
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



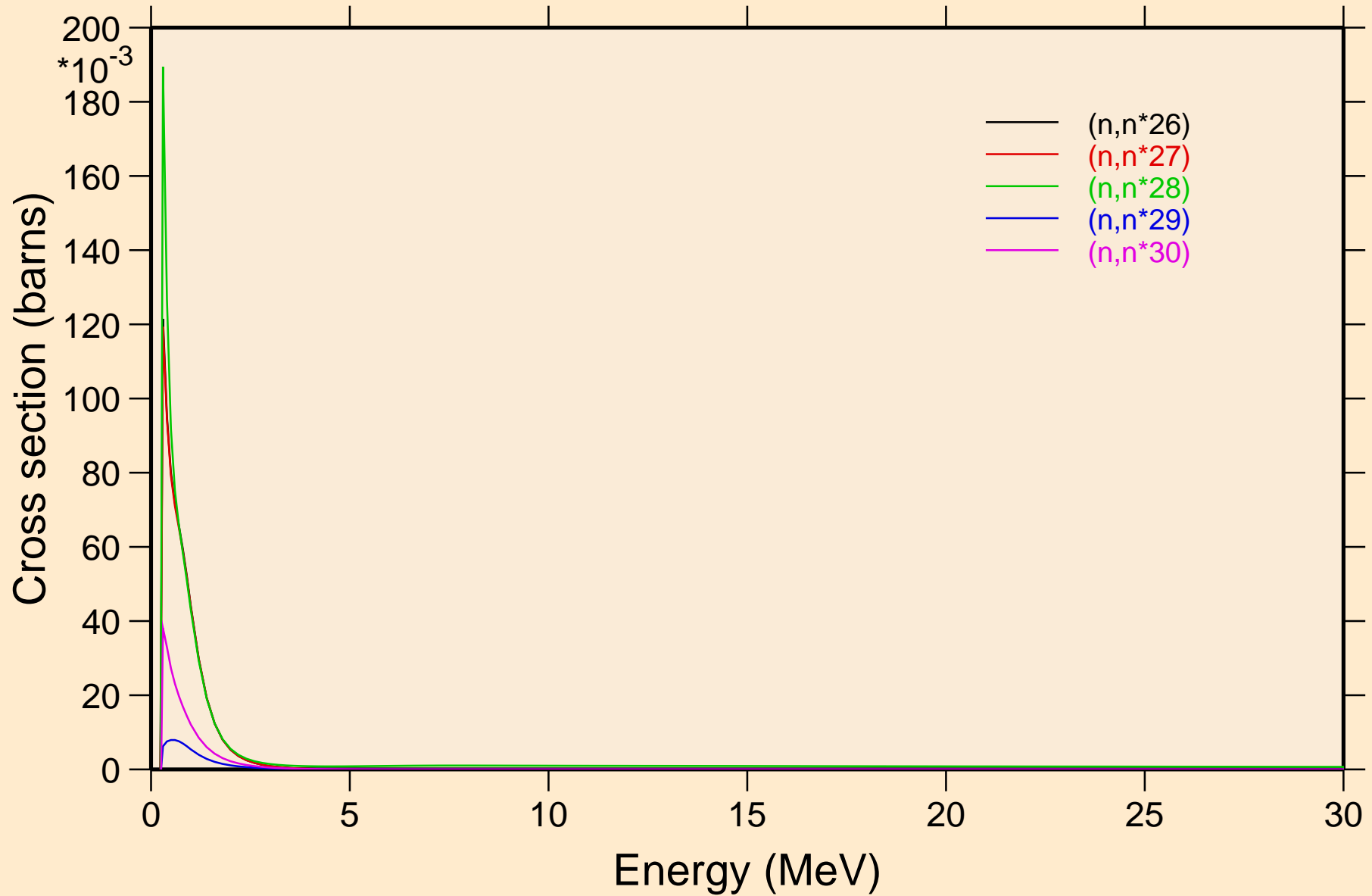
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

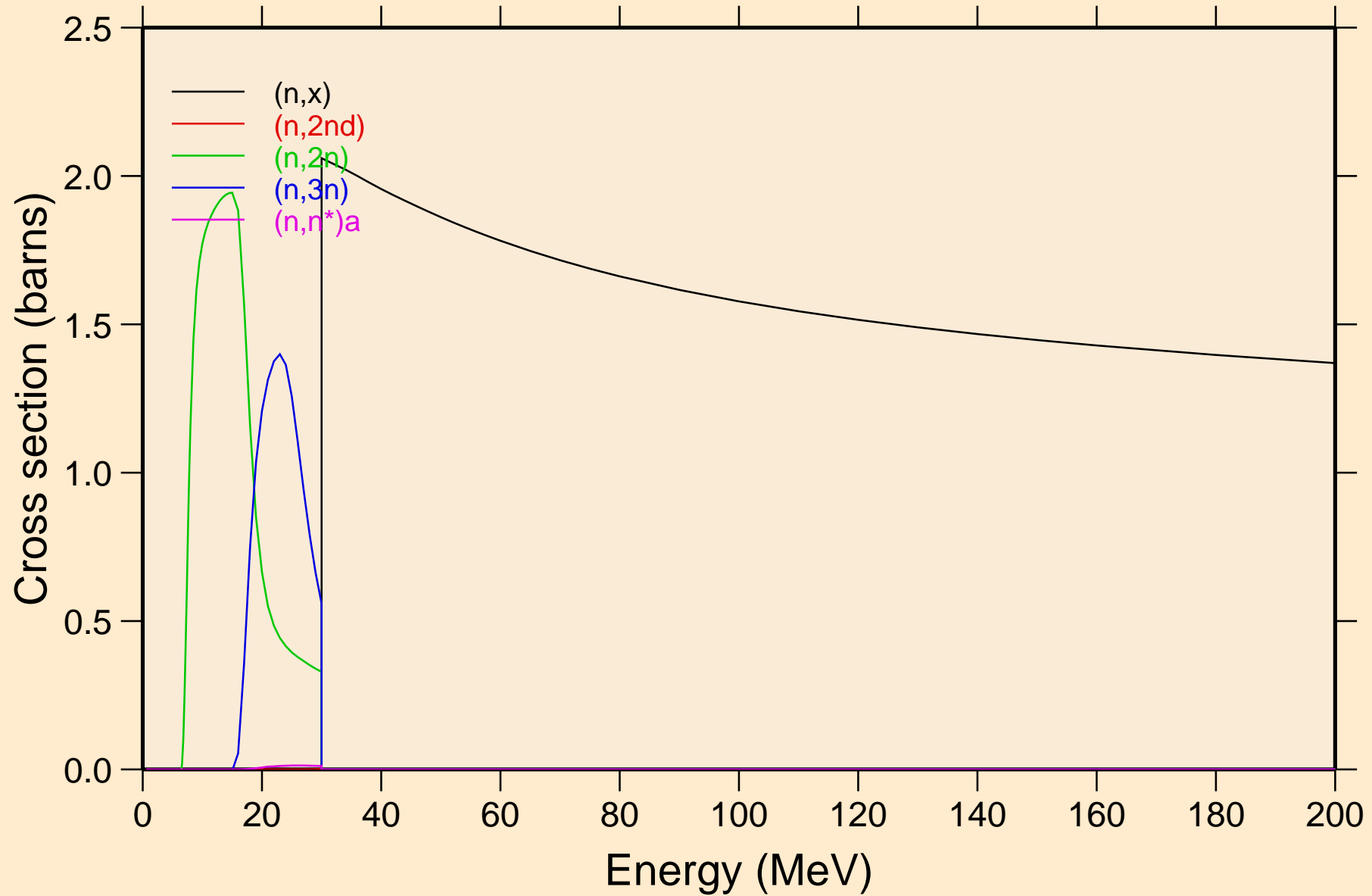


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

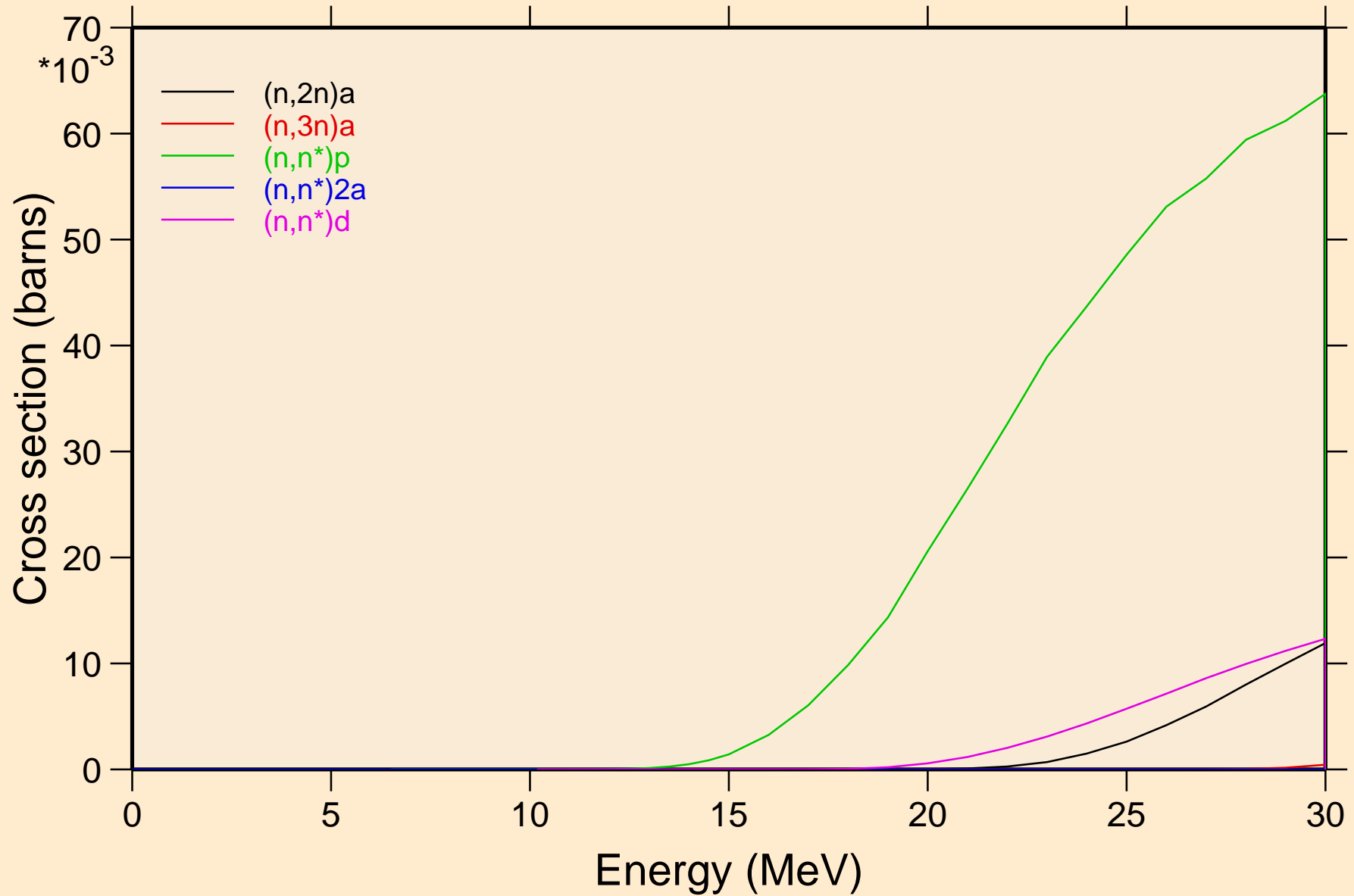


# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

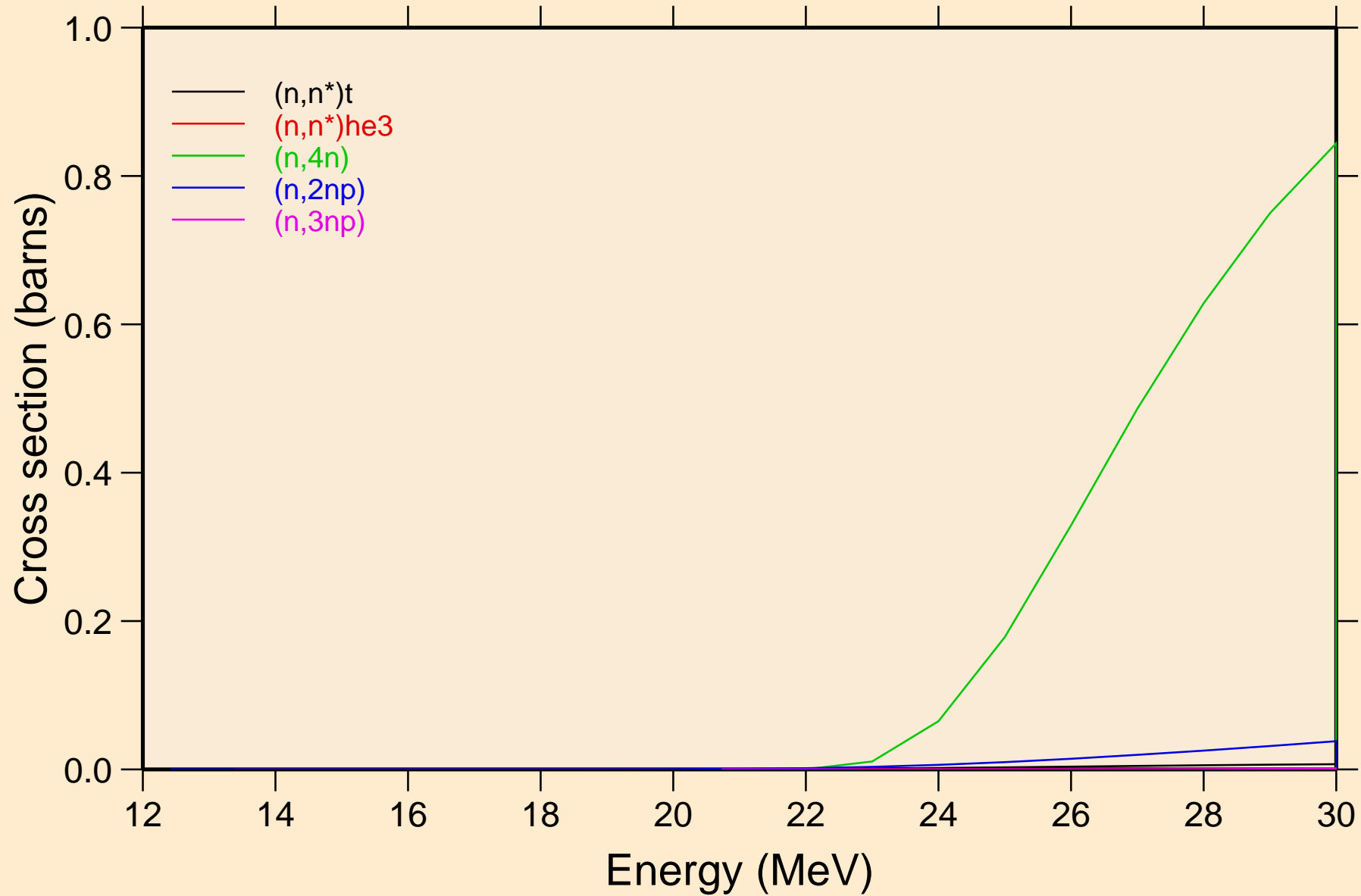


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

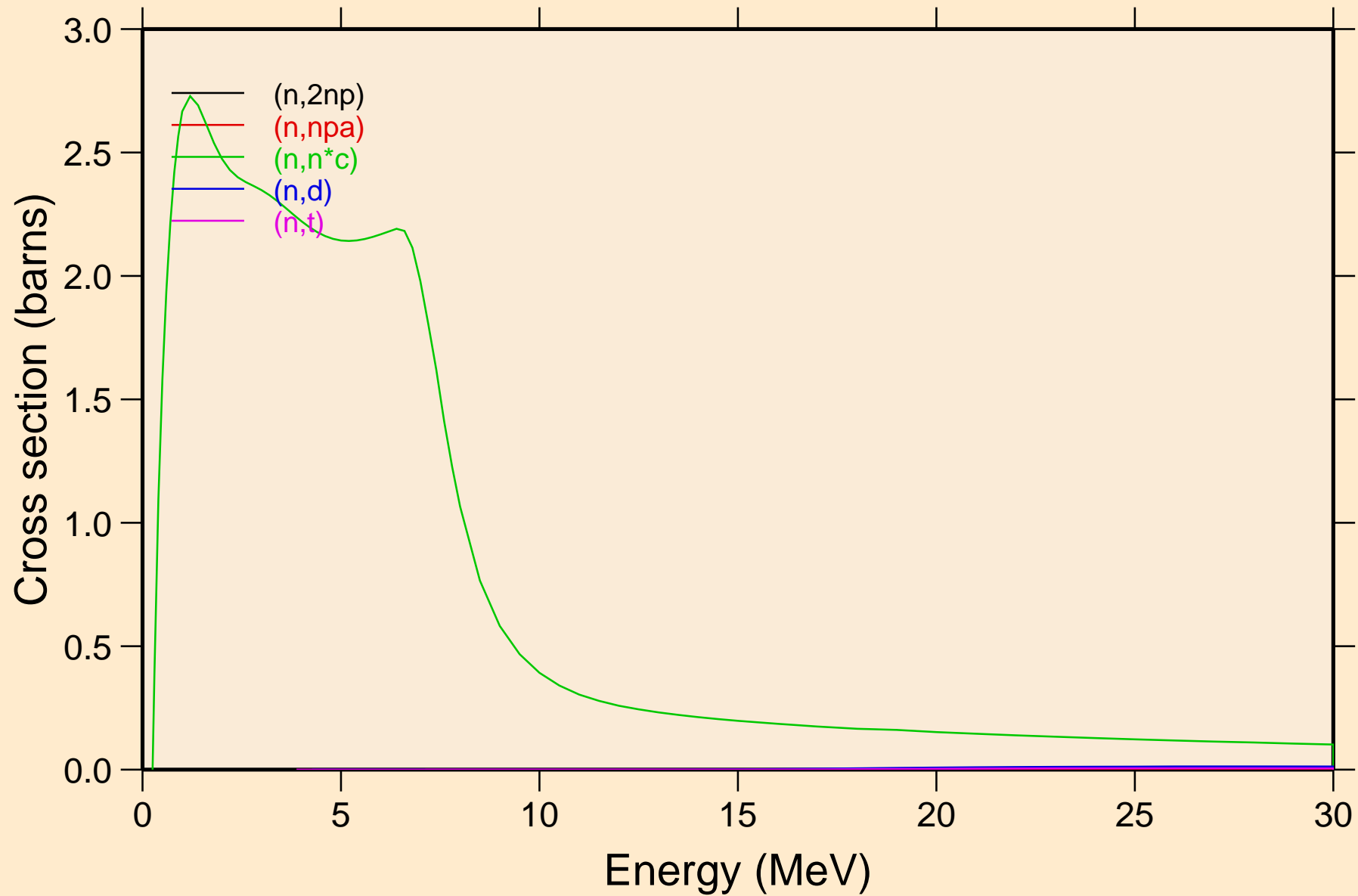




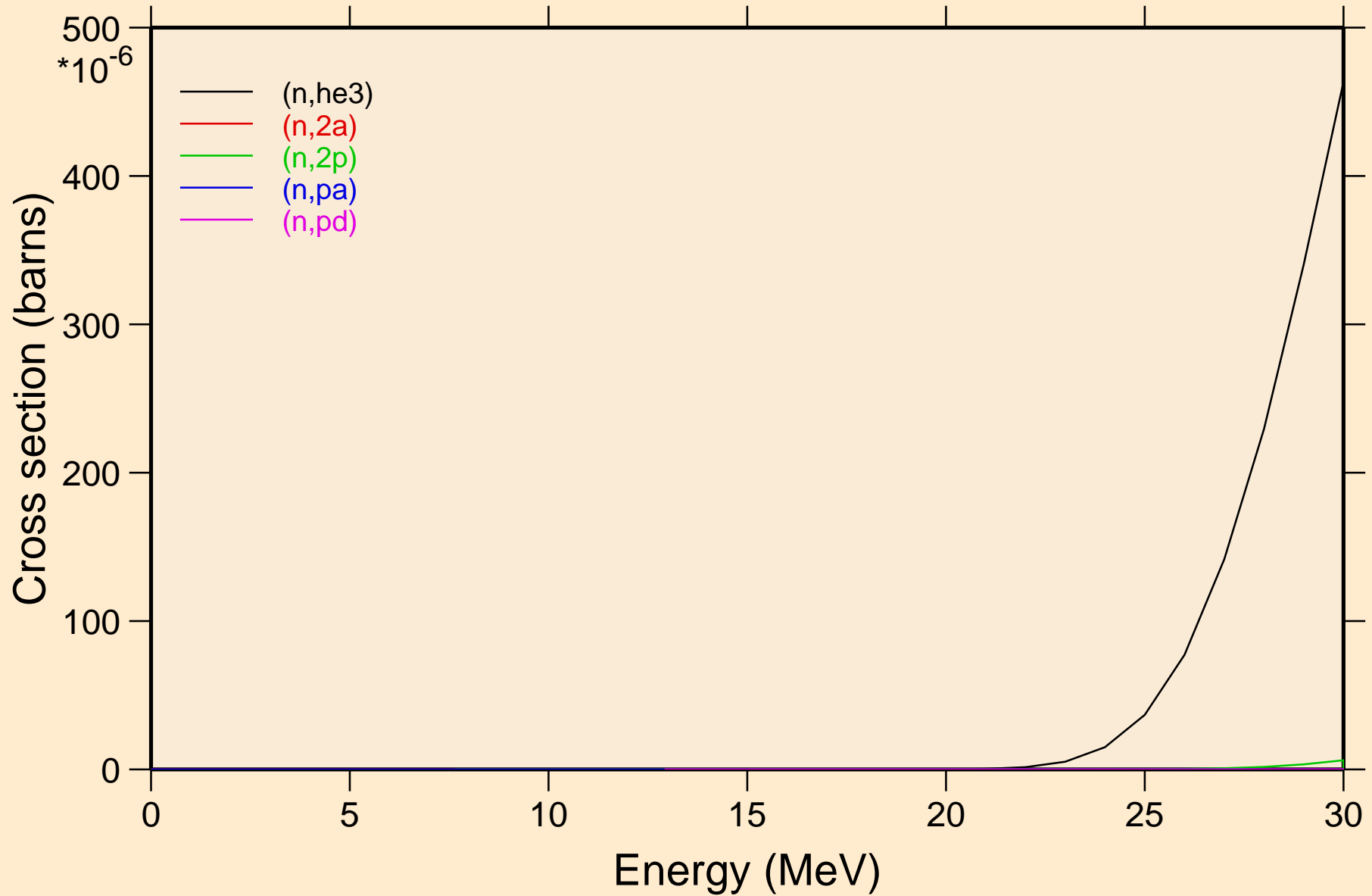
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

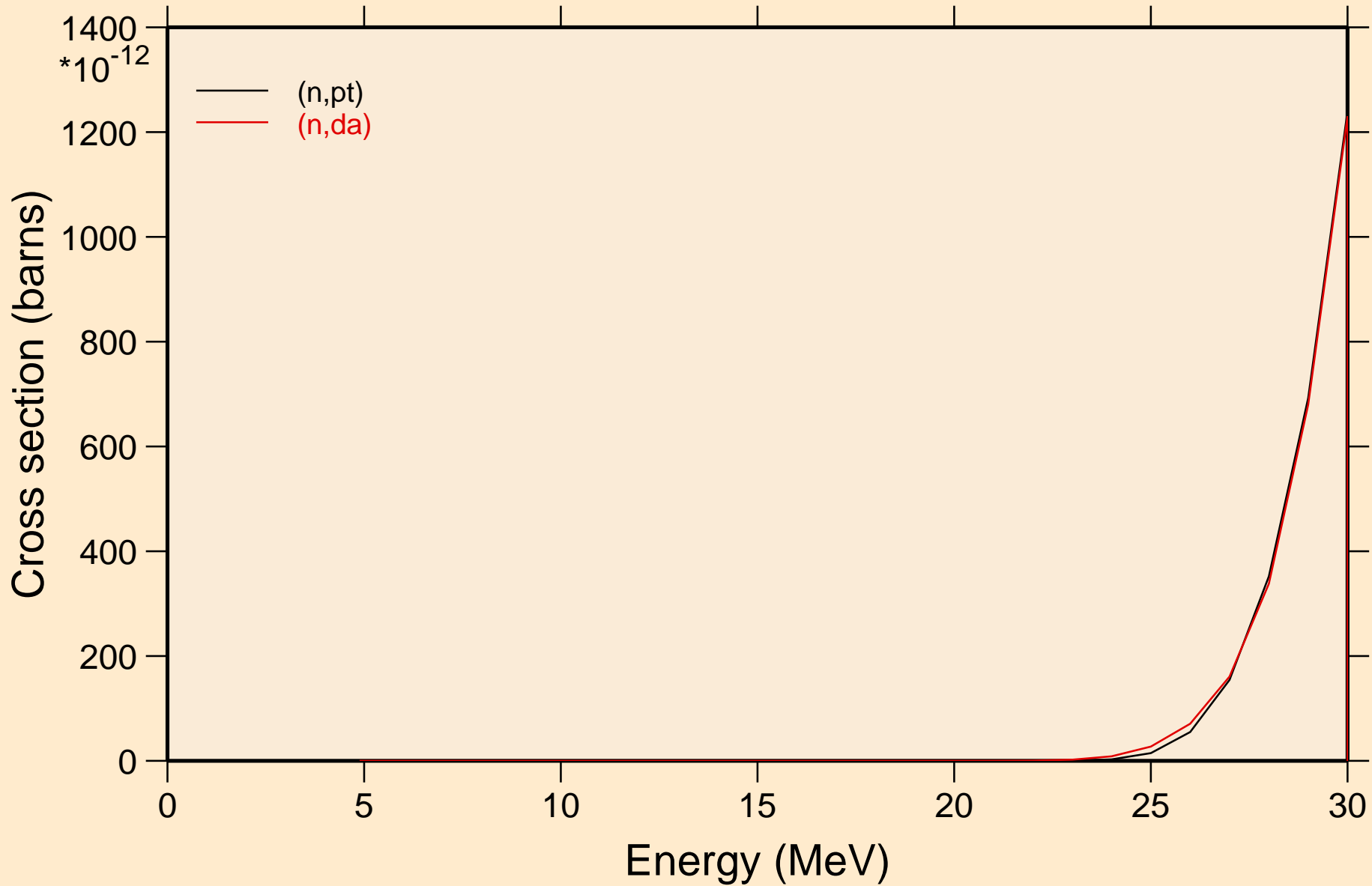


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



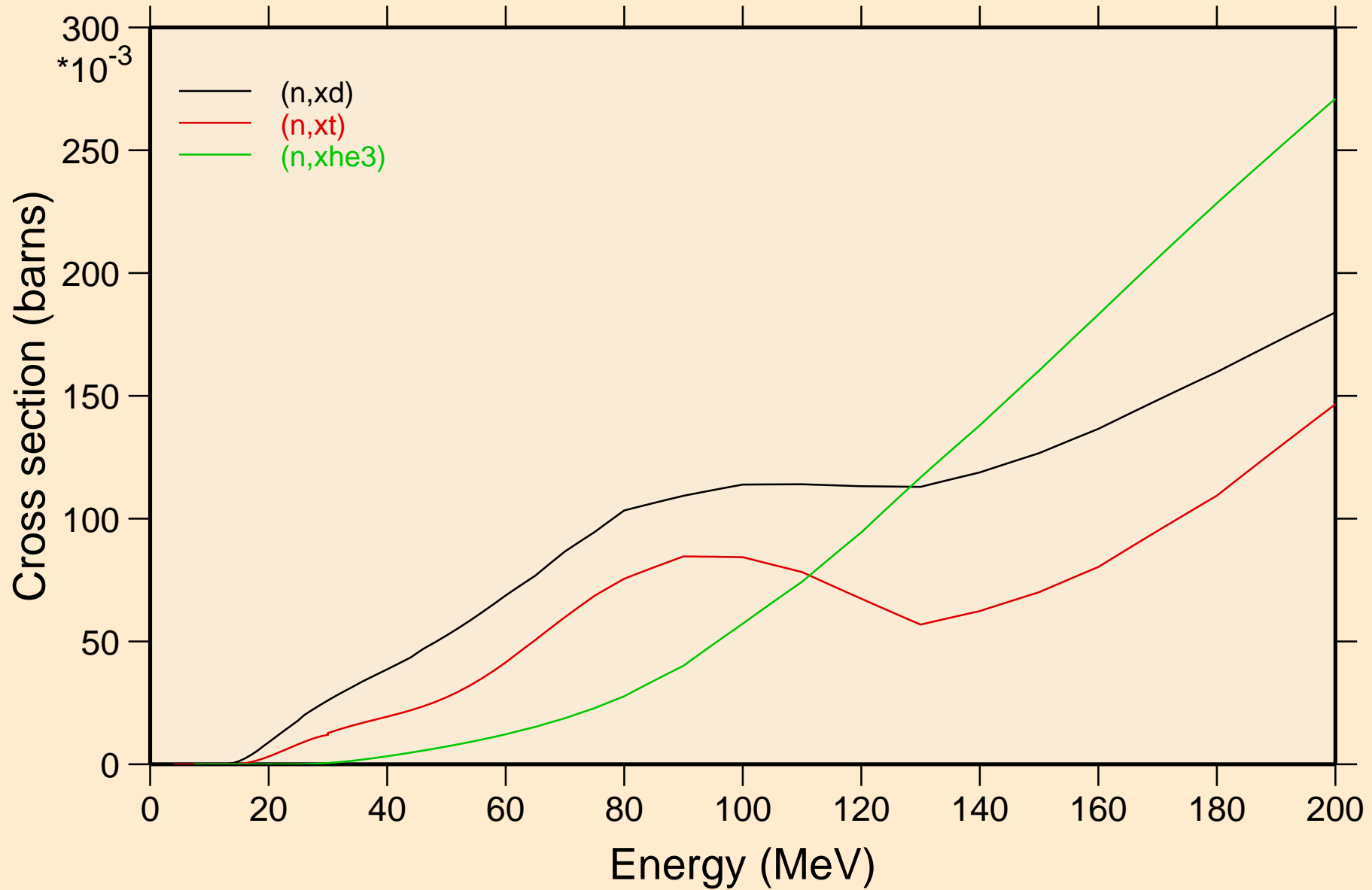
# EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

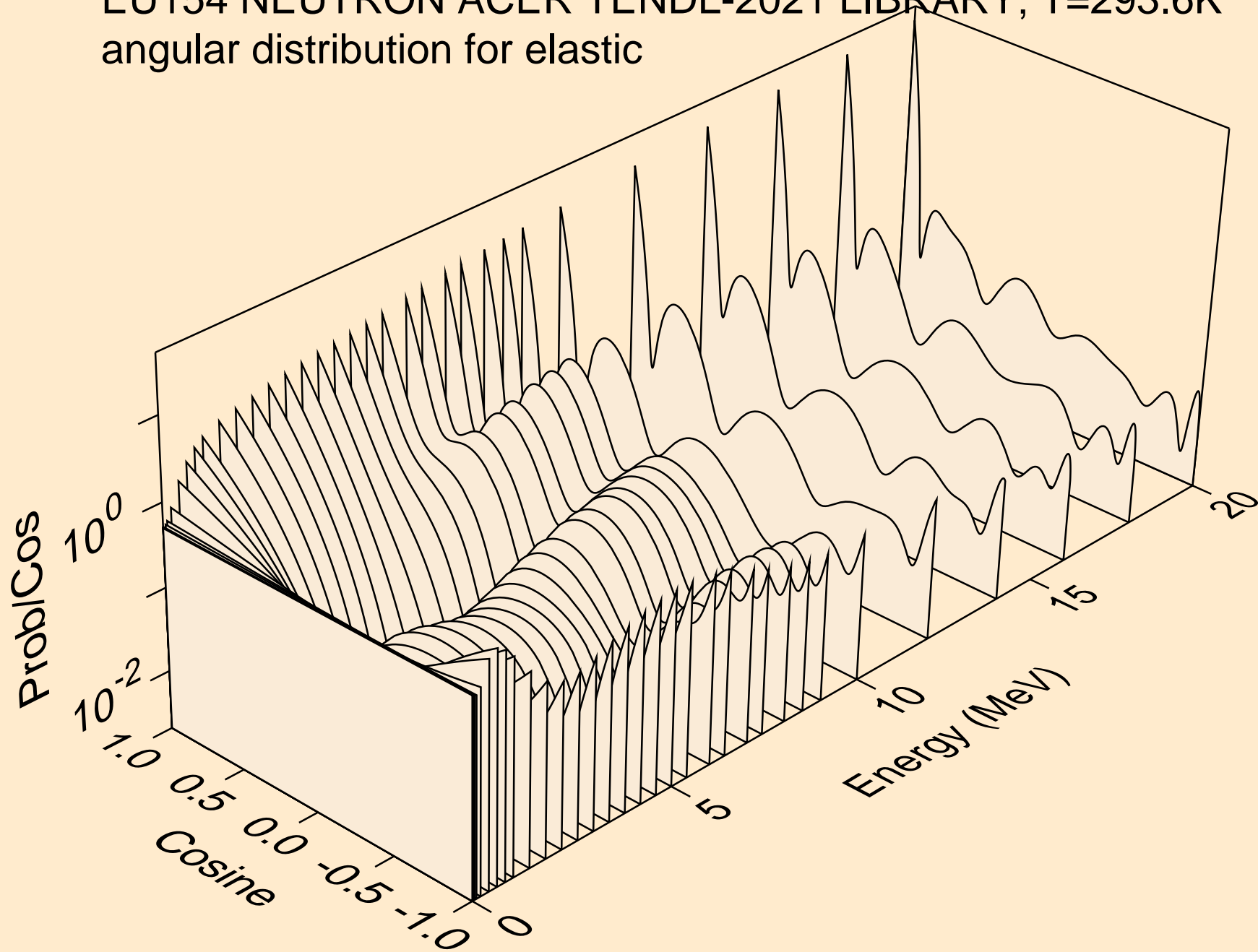


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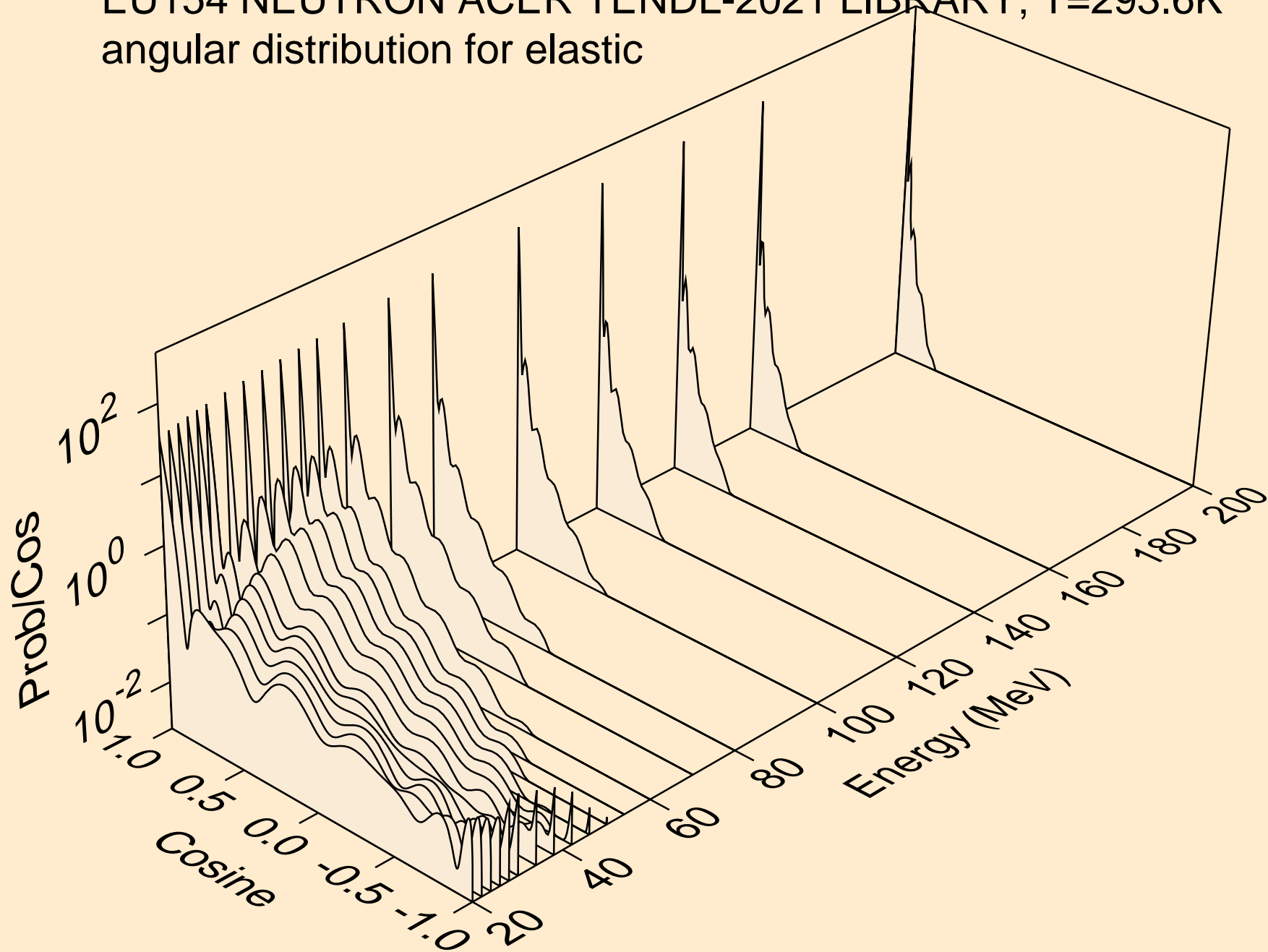
## Threshold reactions



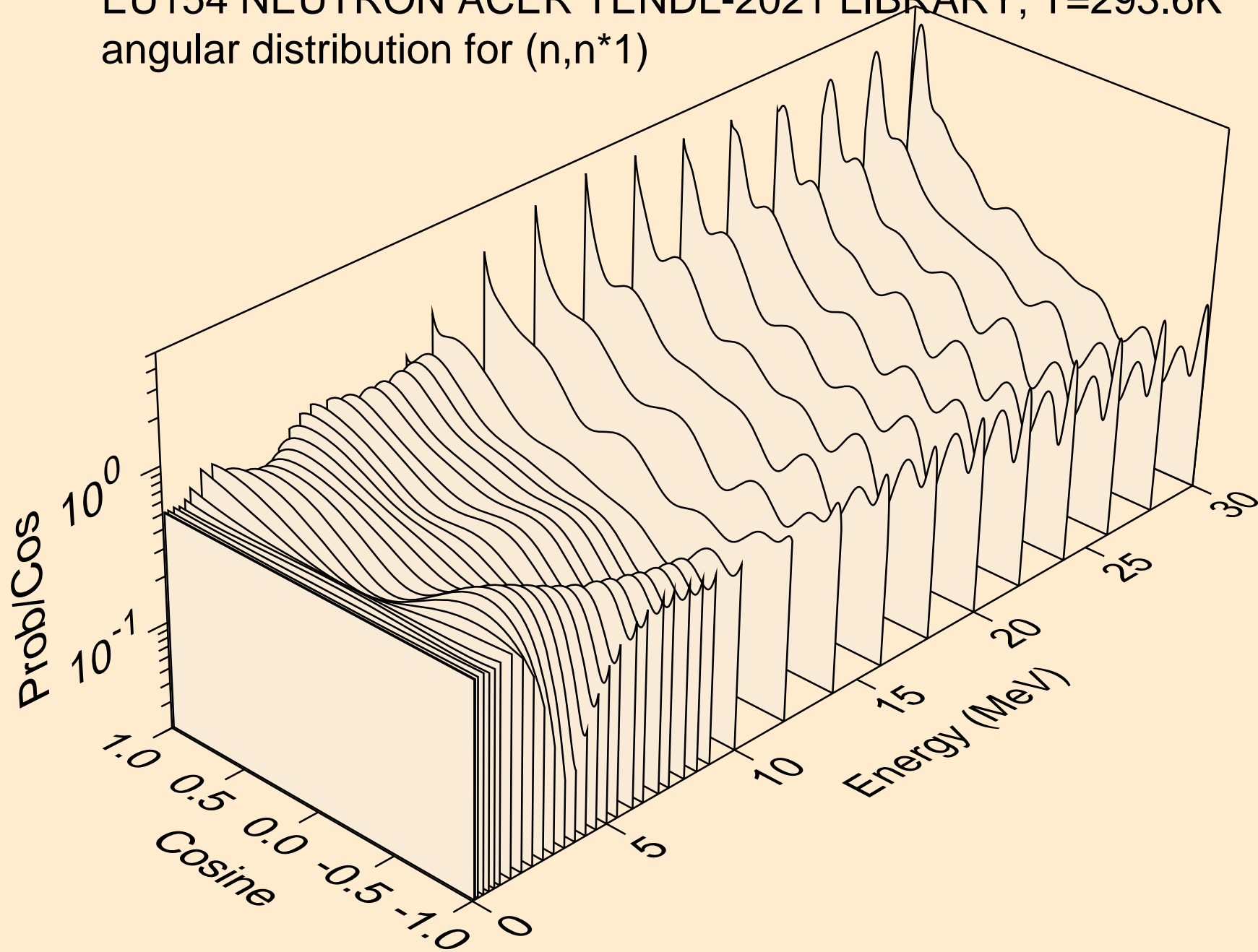
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic

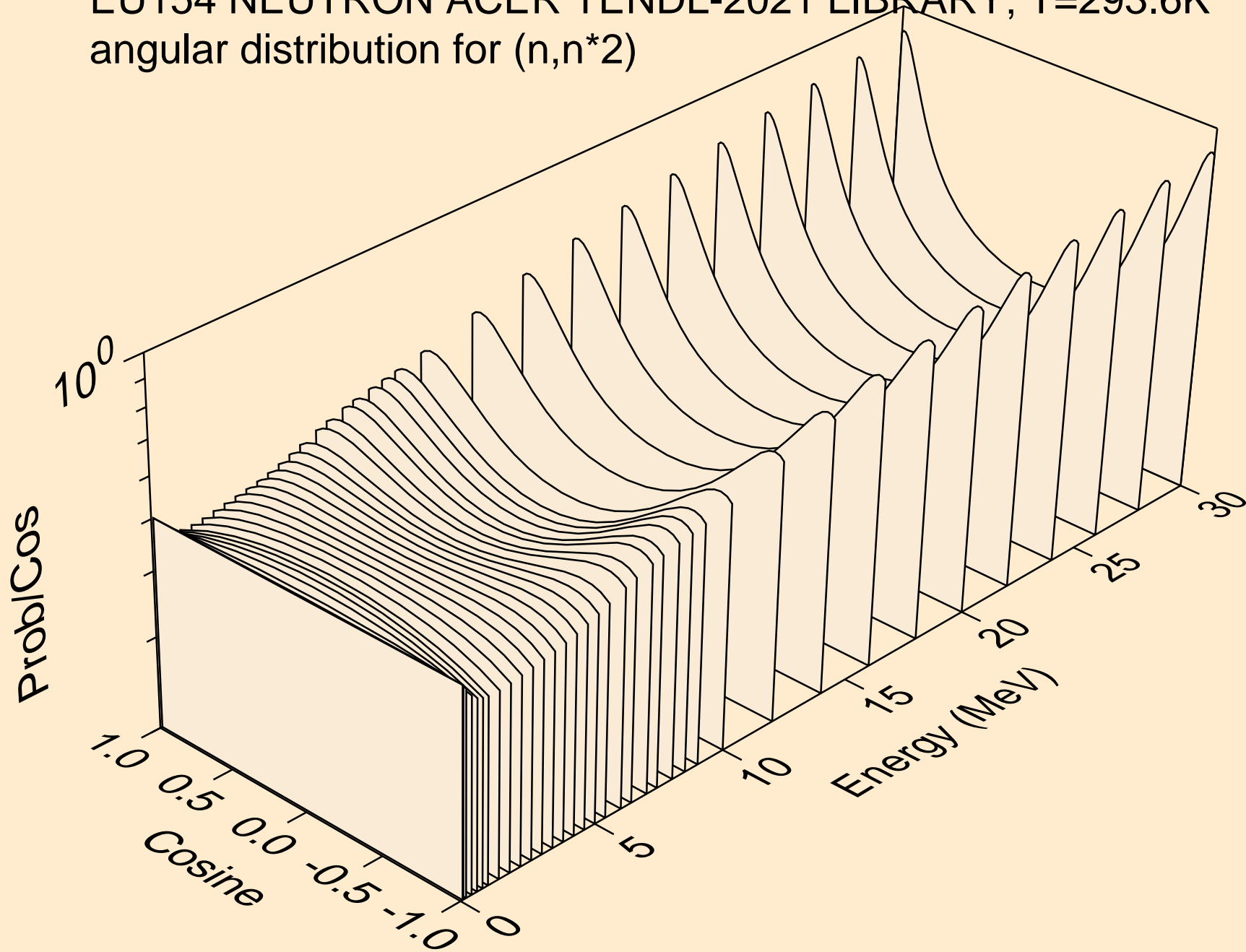


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)

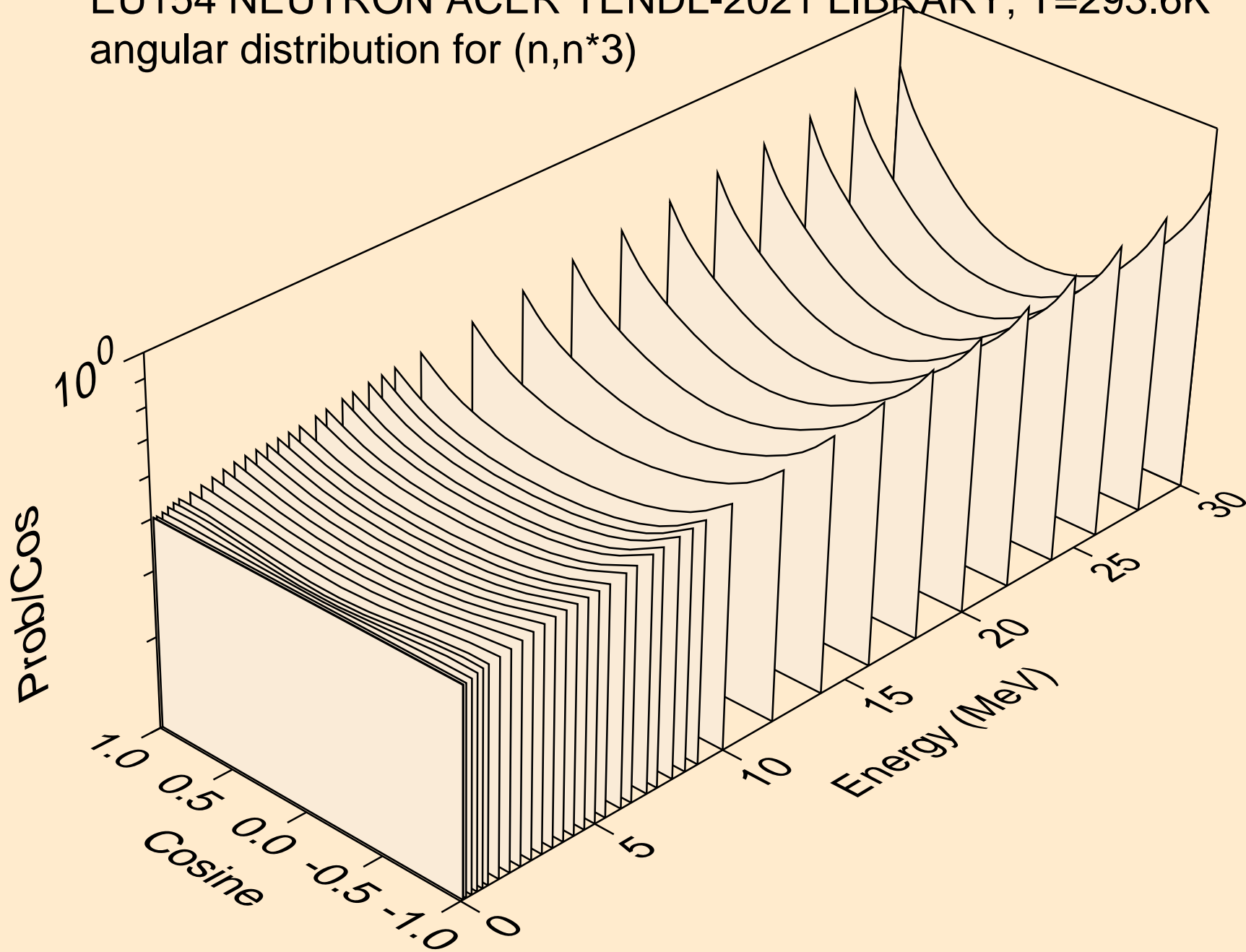




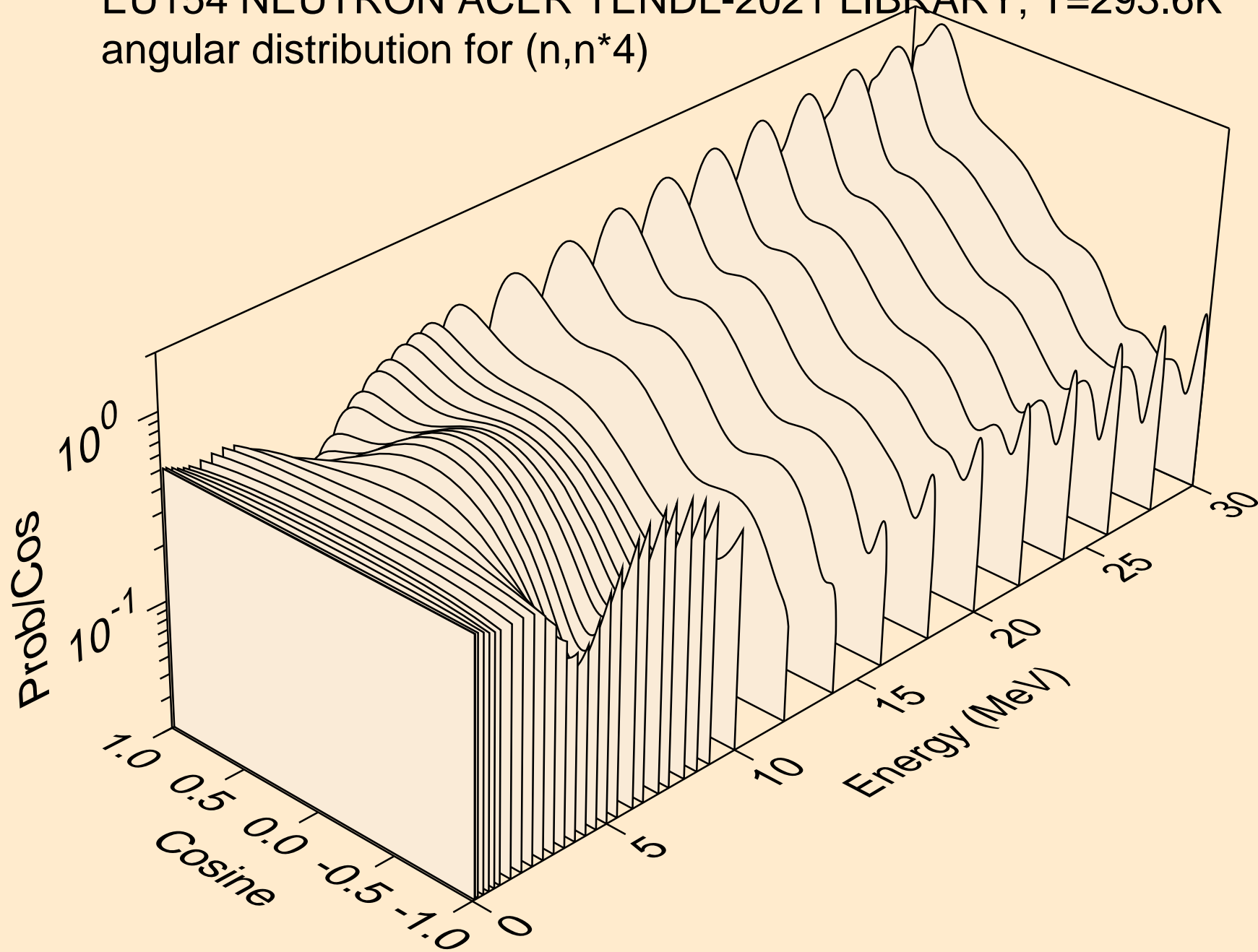
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*2)



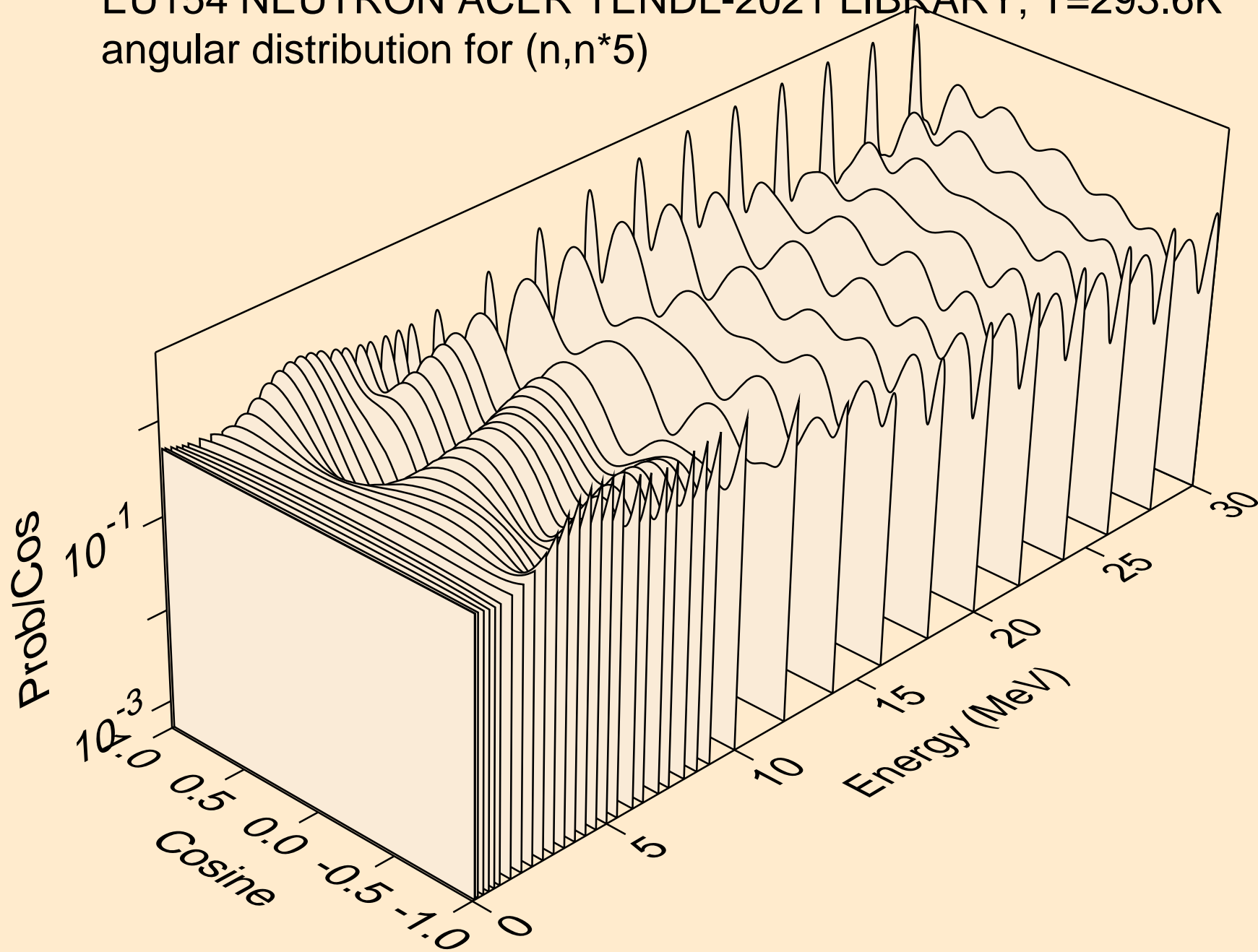
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*3)



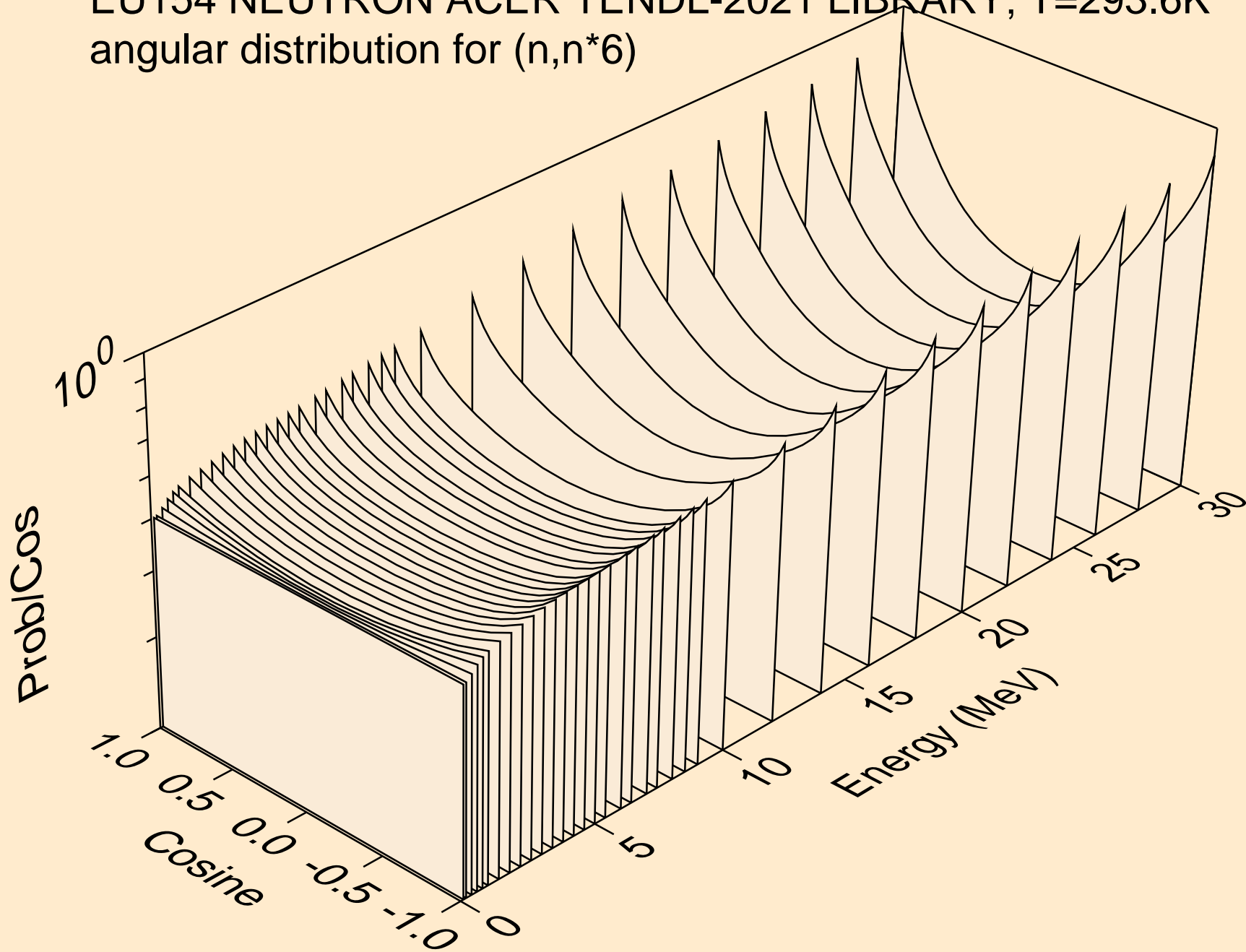
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angular distribution for (n,n\*4)



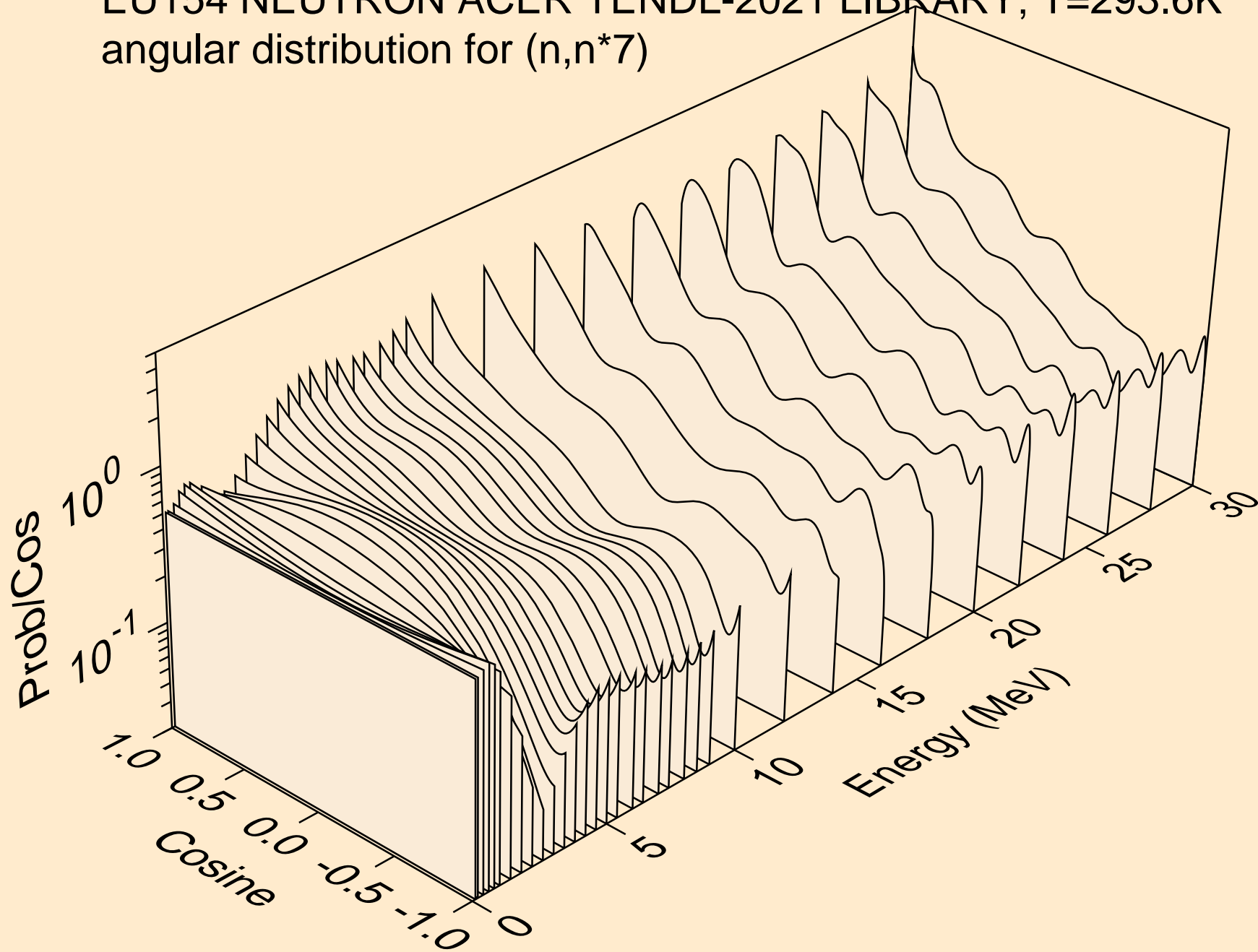
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angular distribution for (n,n\*5)



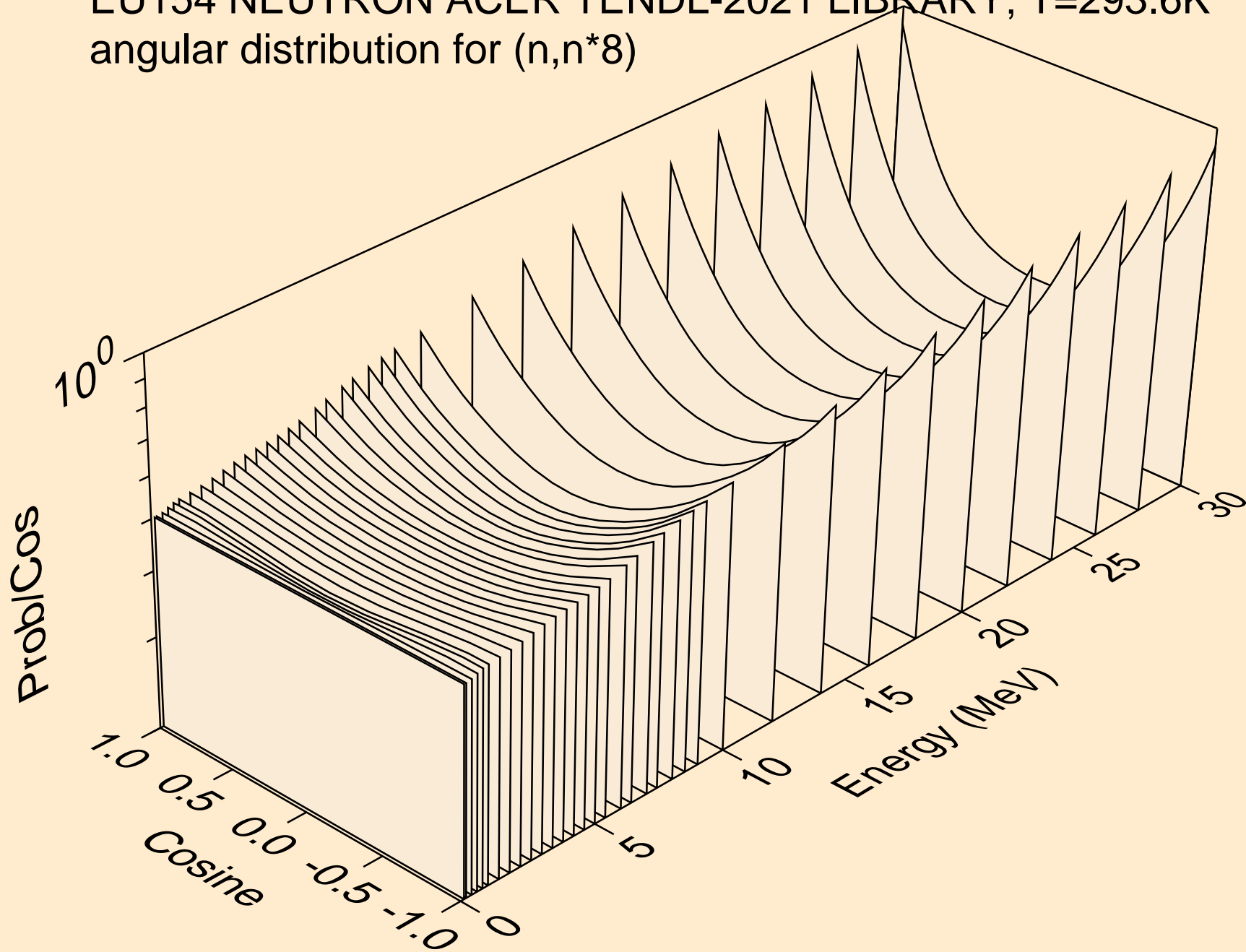
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angular distribution for (n,n\*6)



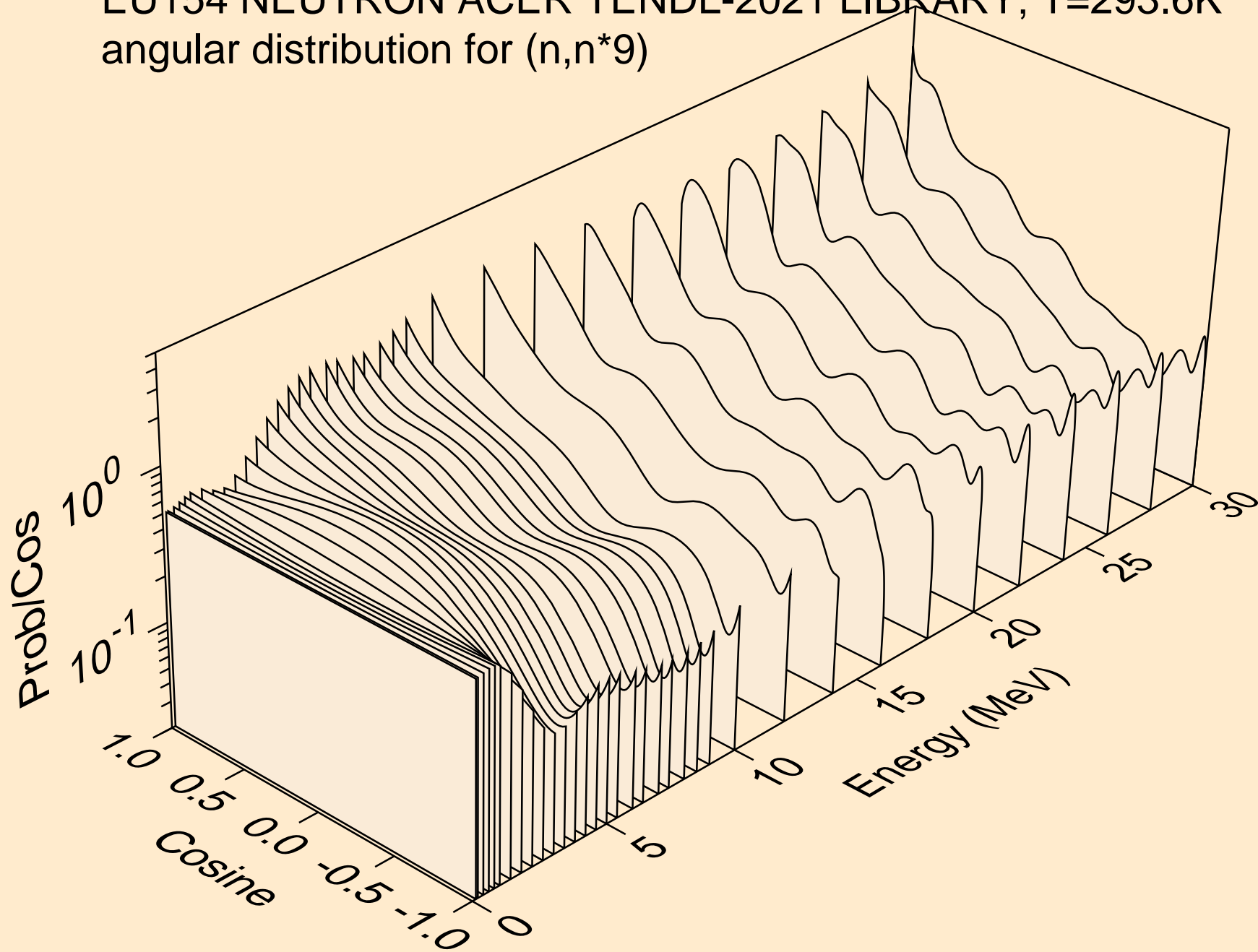
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*7)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*8)

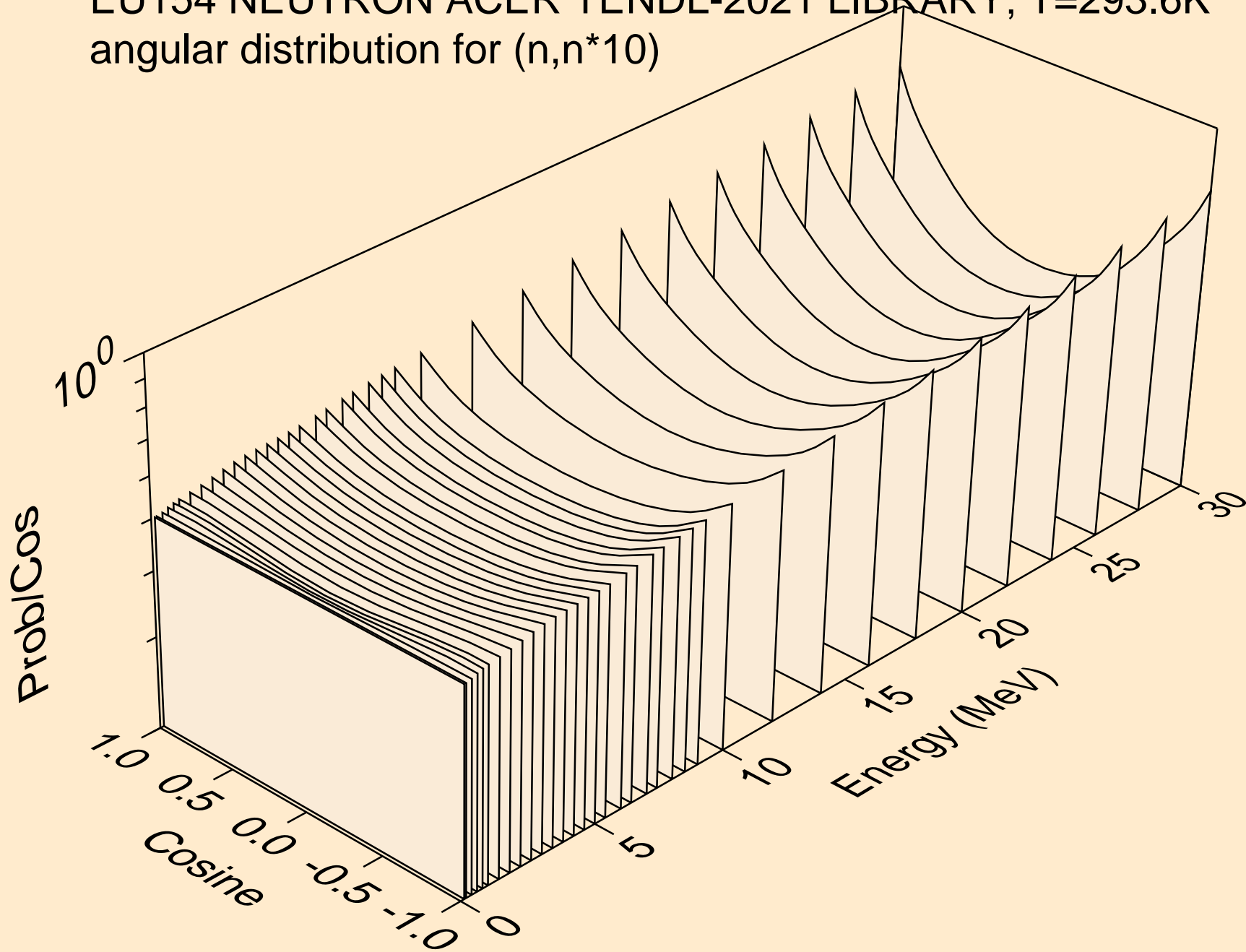


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*9)

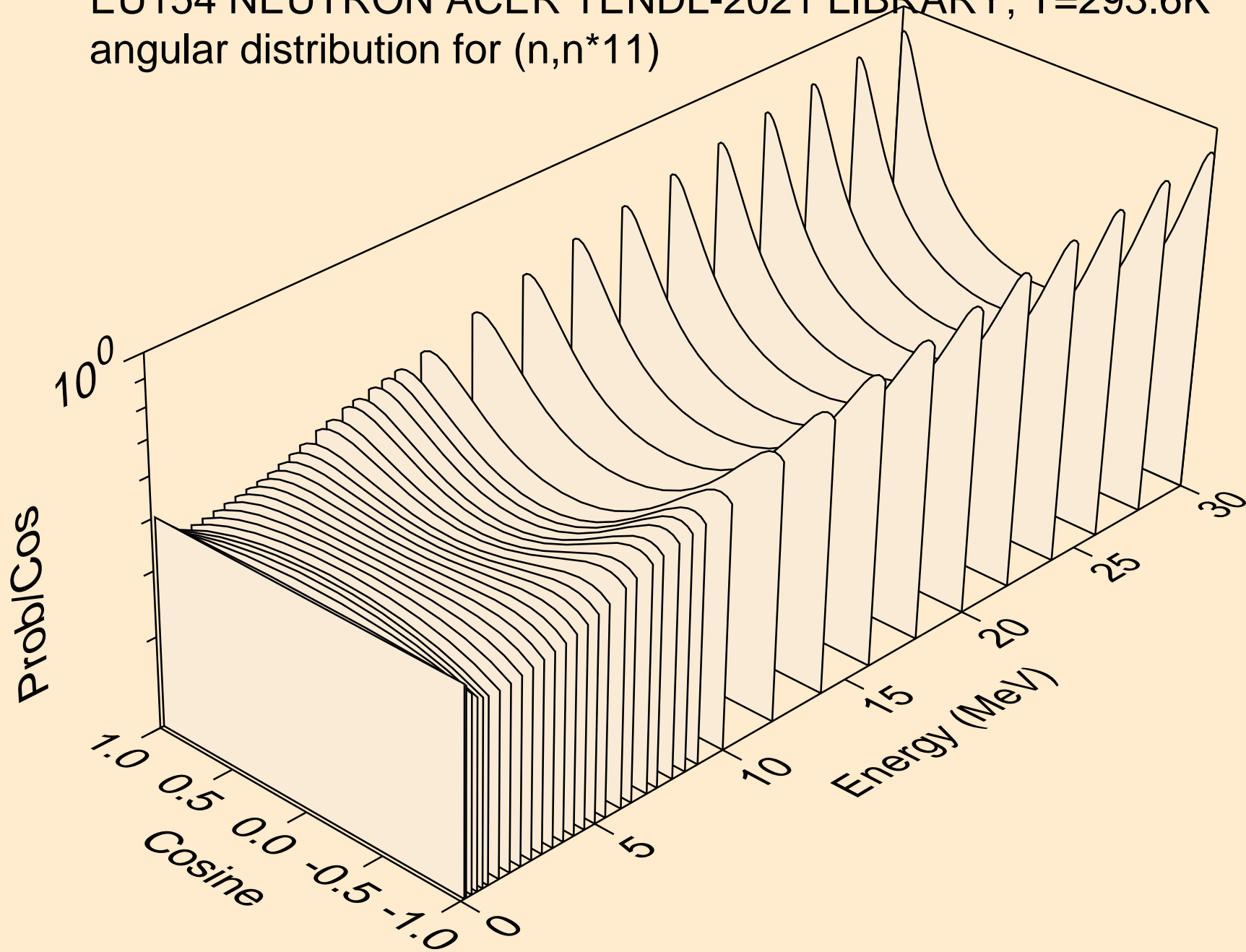




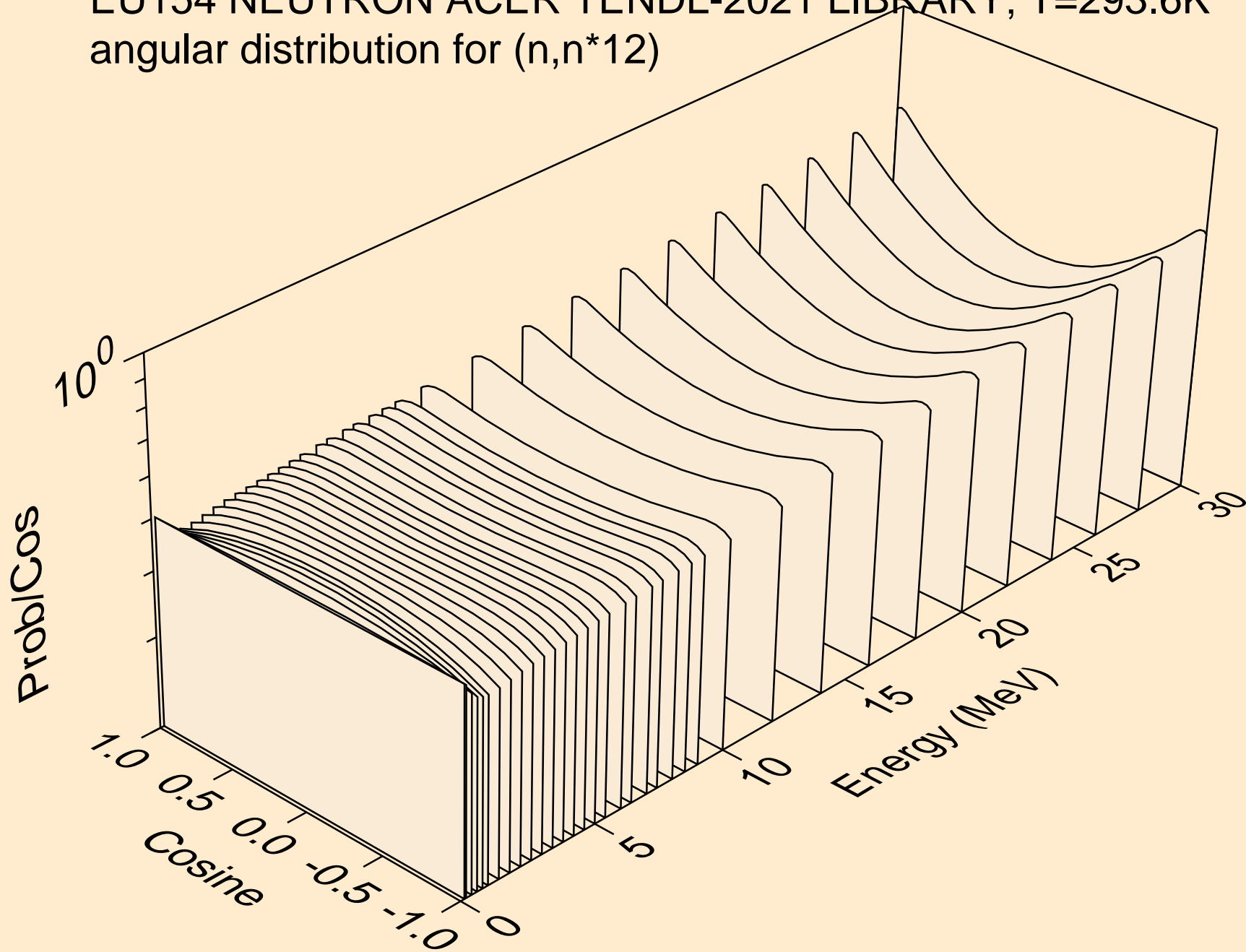
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angular distribution for (n,n\*10)



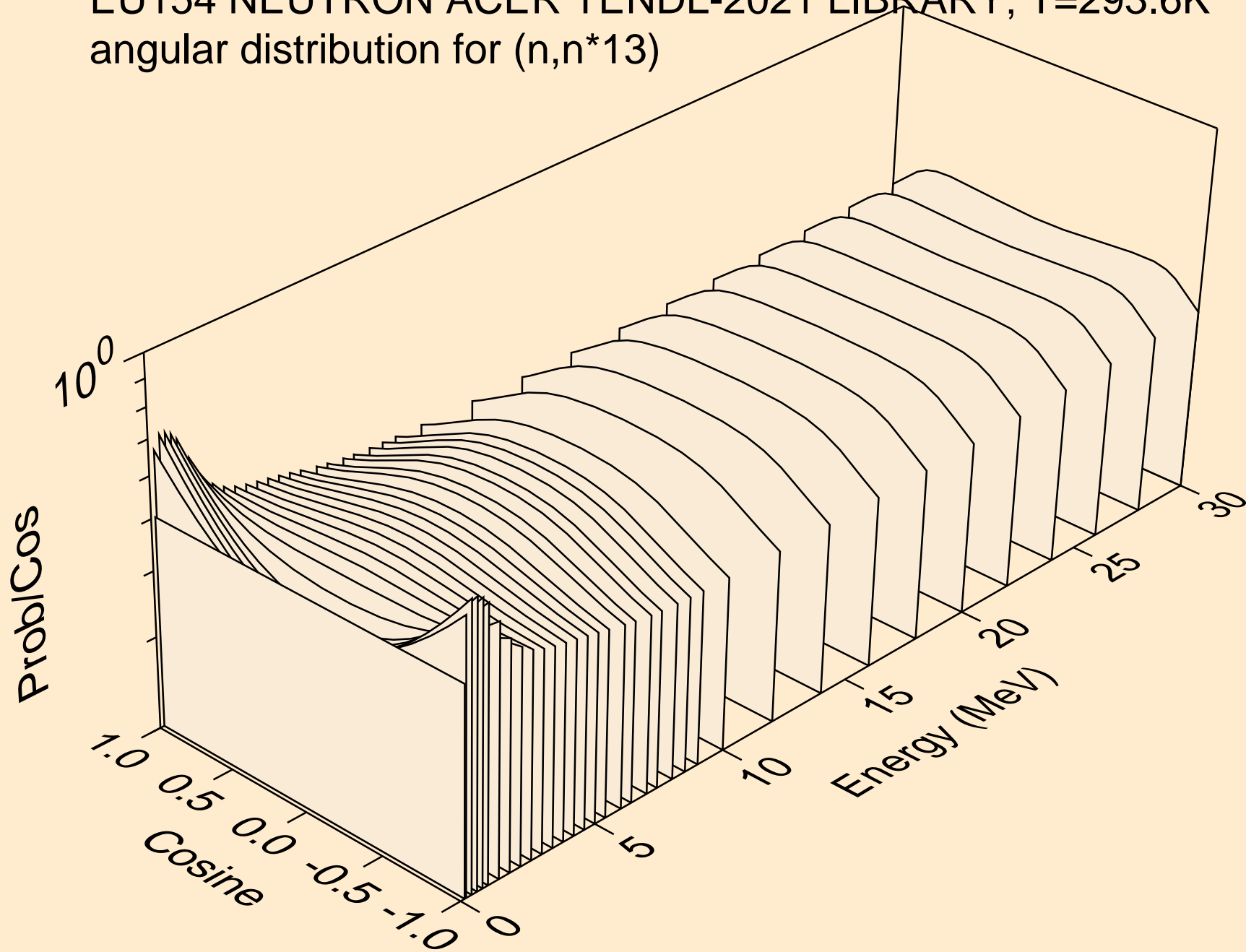
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angular distribution for (n,n\*11)



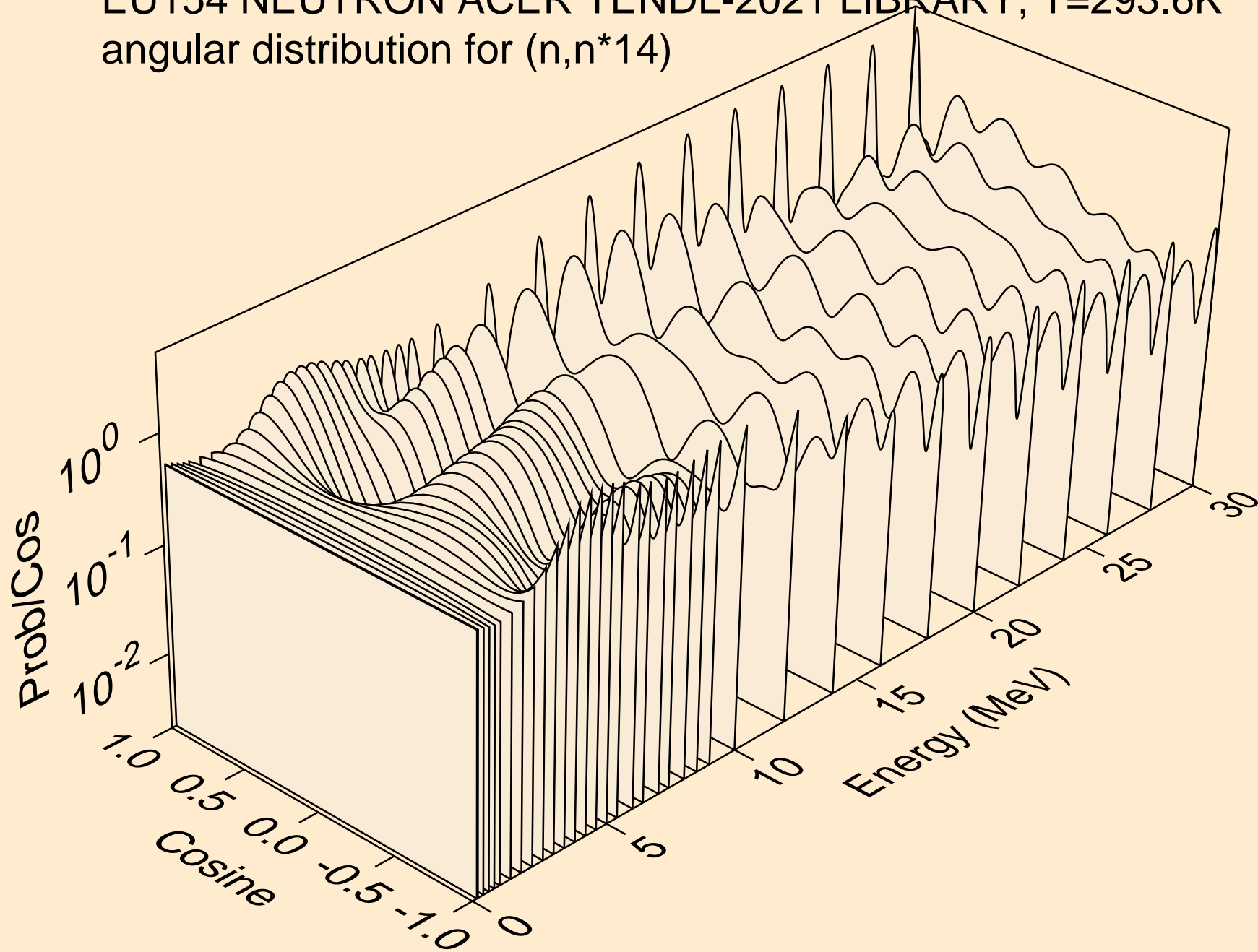
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angular distribution for (n,n\*12)



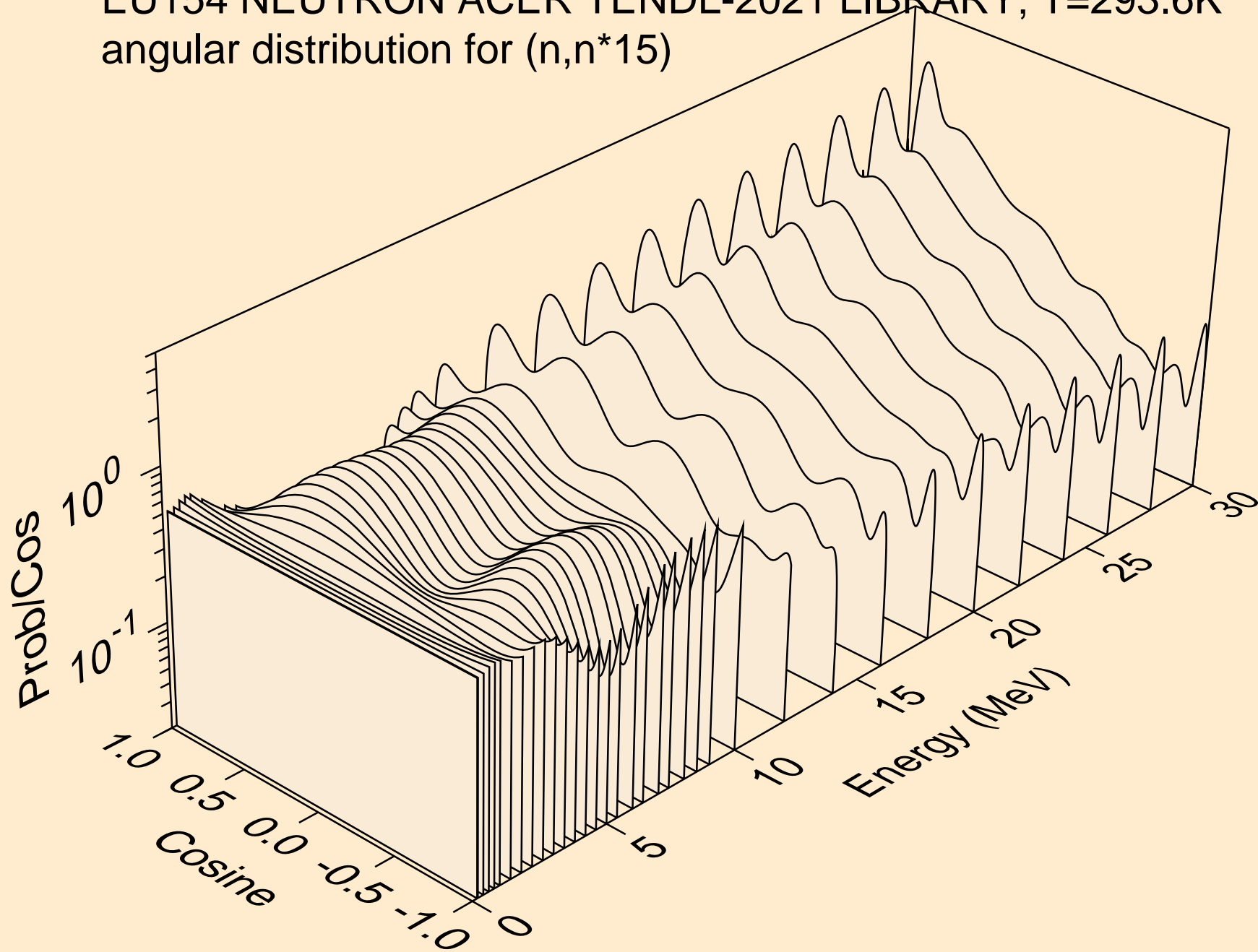
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angular distribution for (n,n\*13)



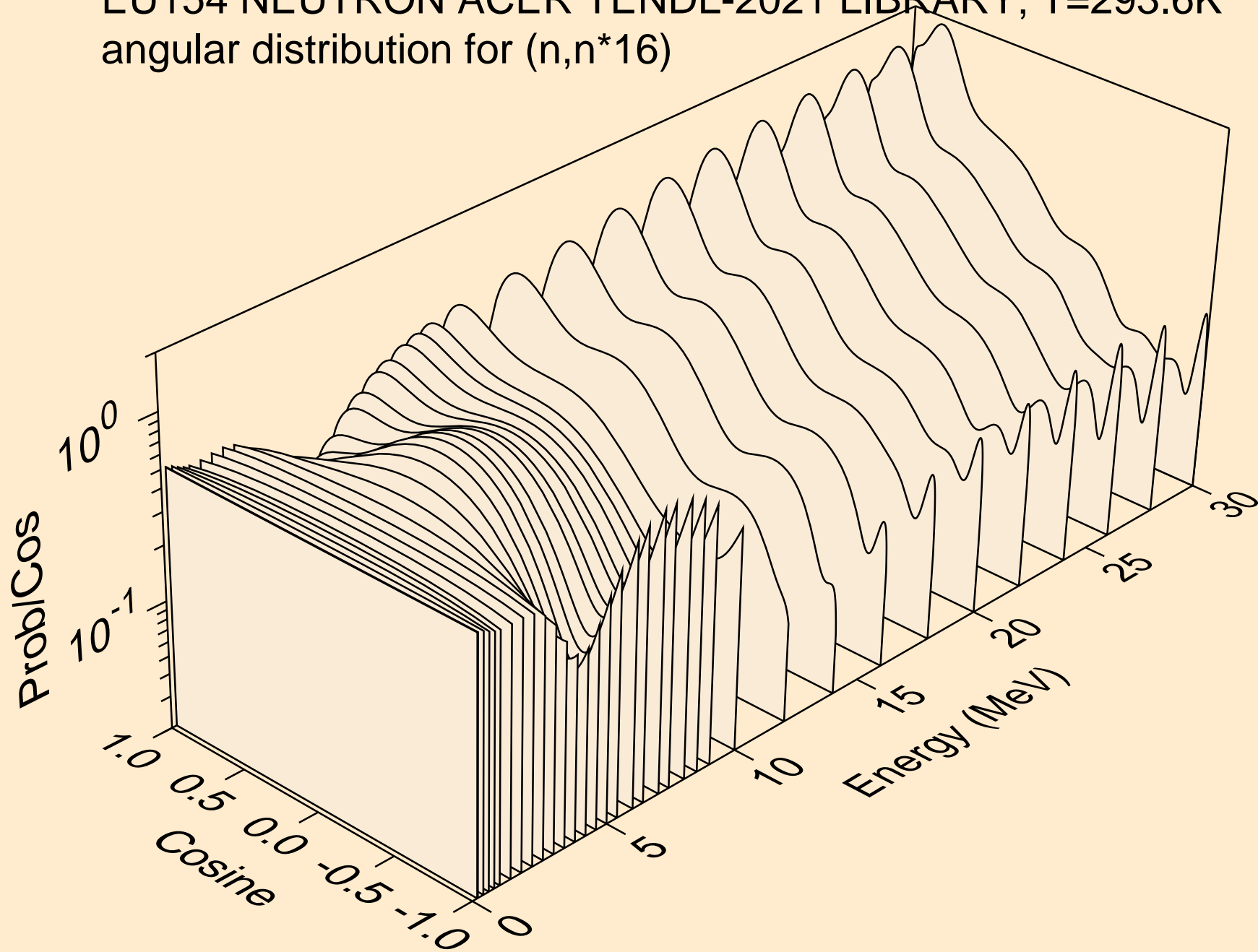
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angular distribution for (n,n\*14)



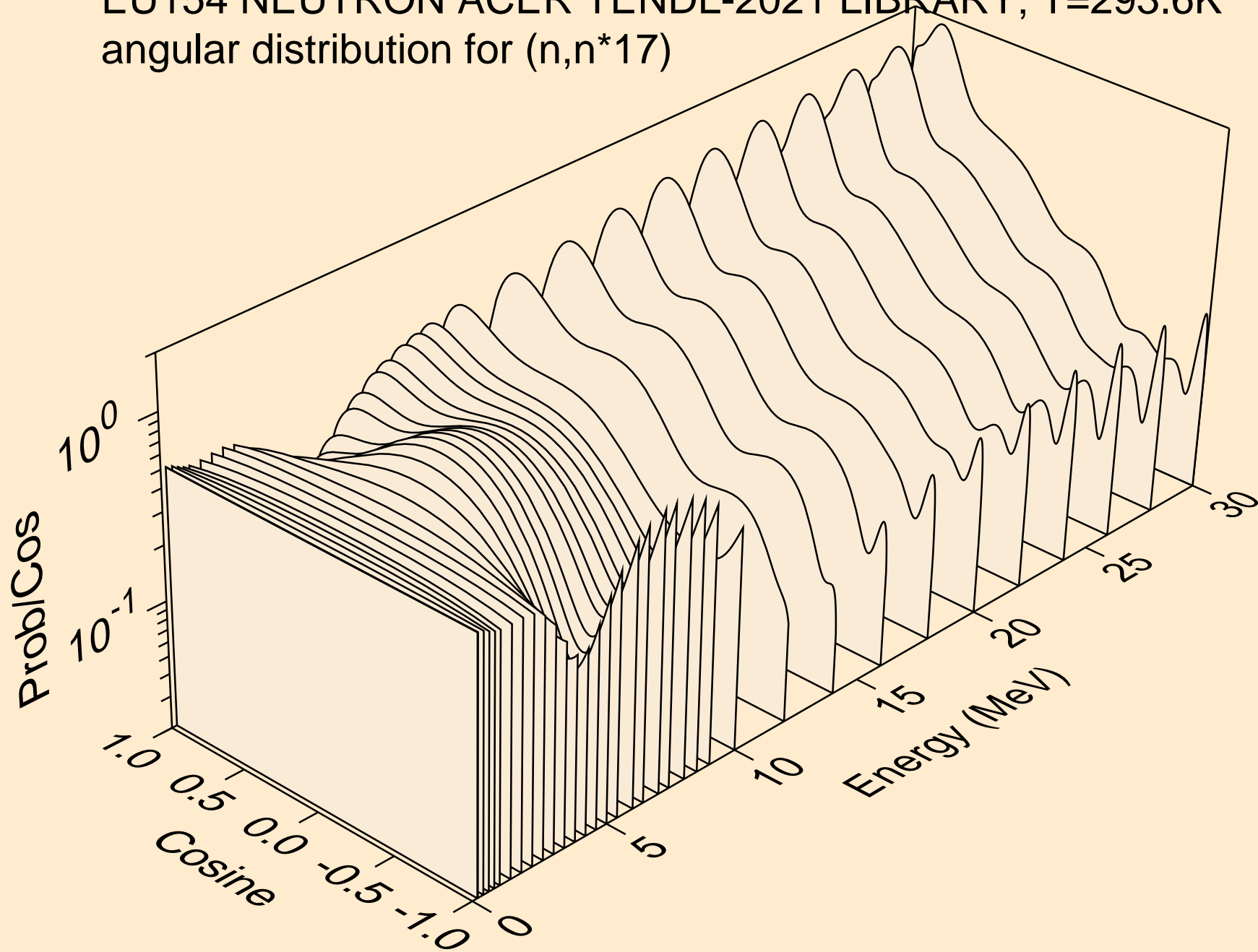
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*15)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*16)

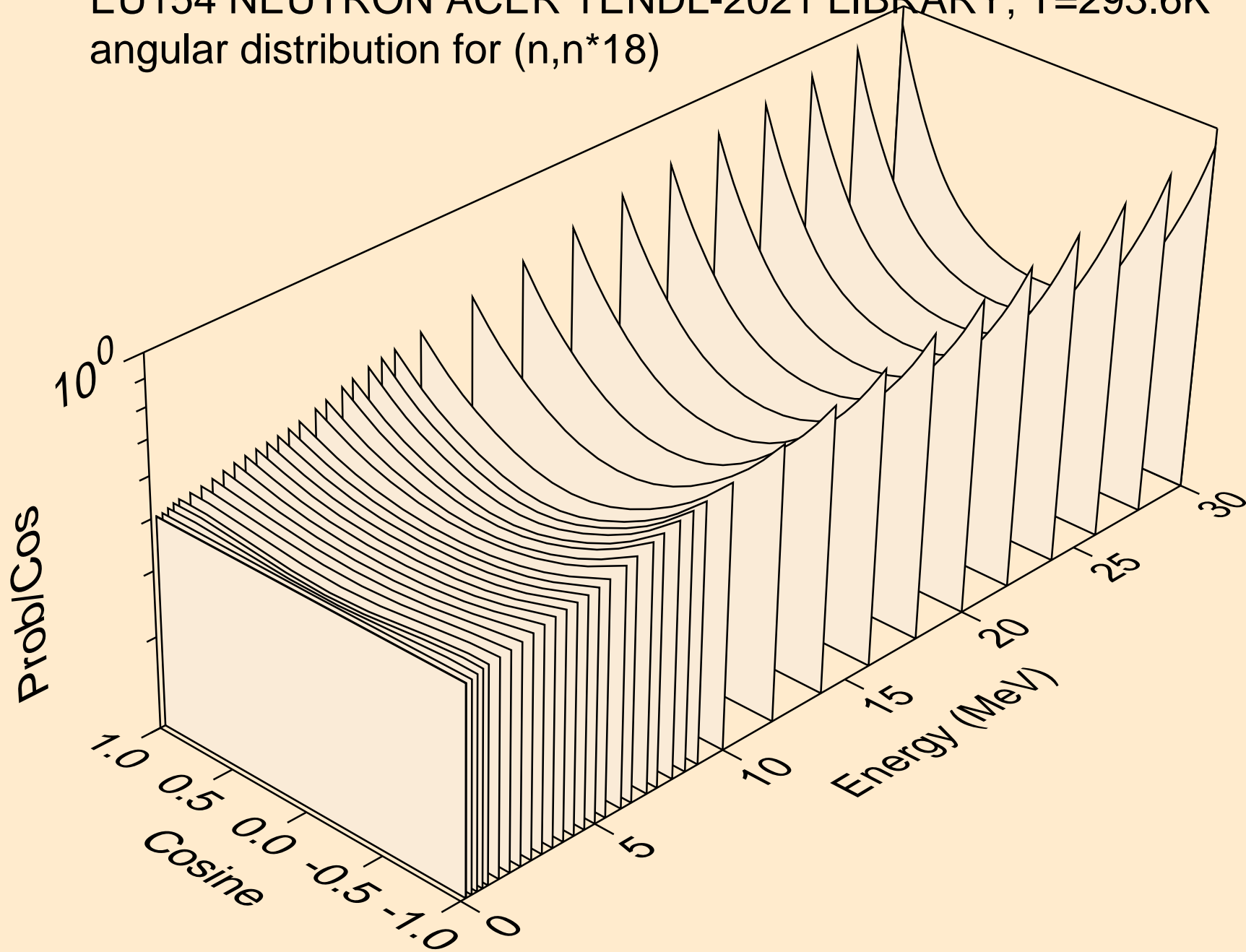


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*17)

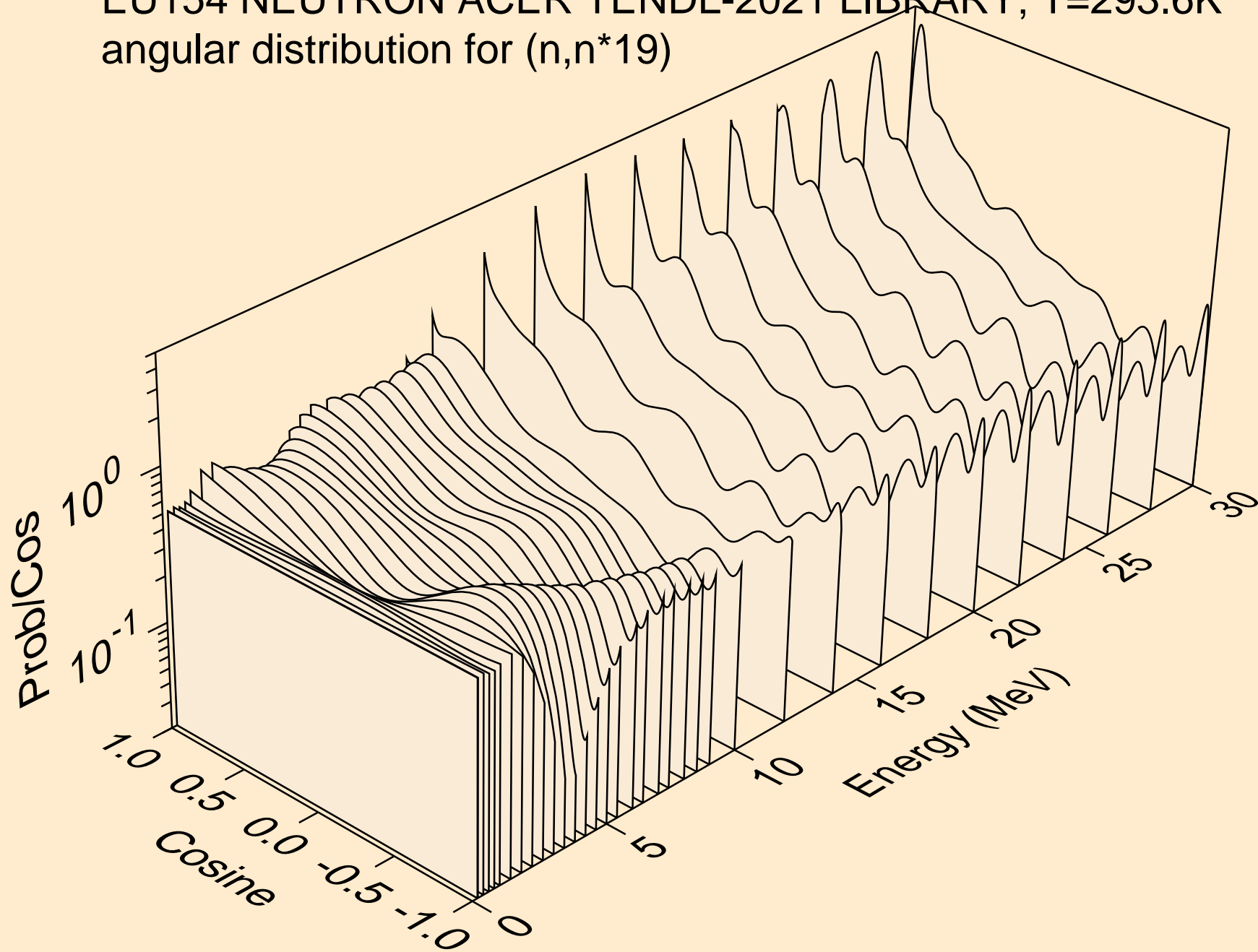




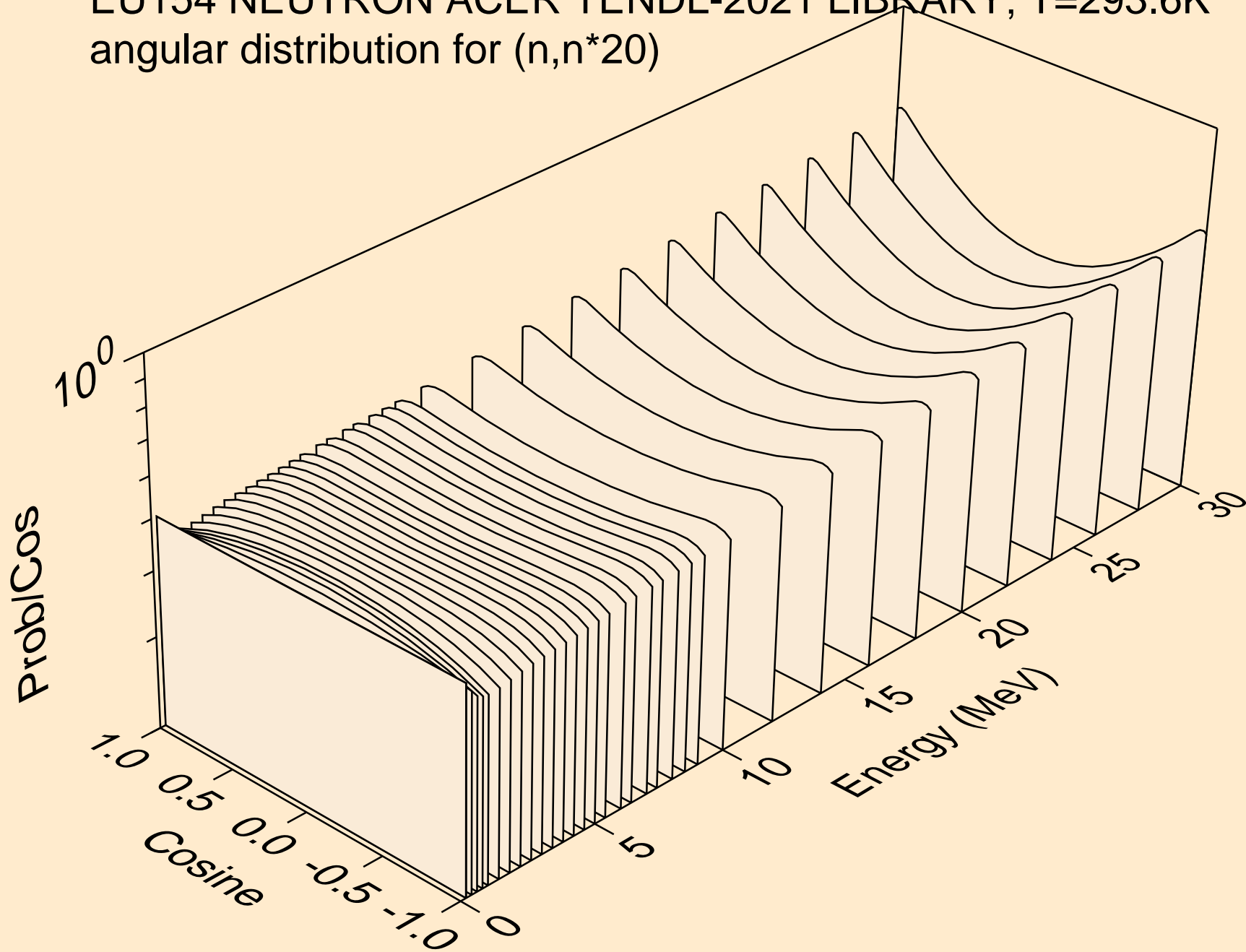
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angular distribution for (n,n\*18)



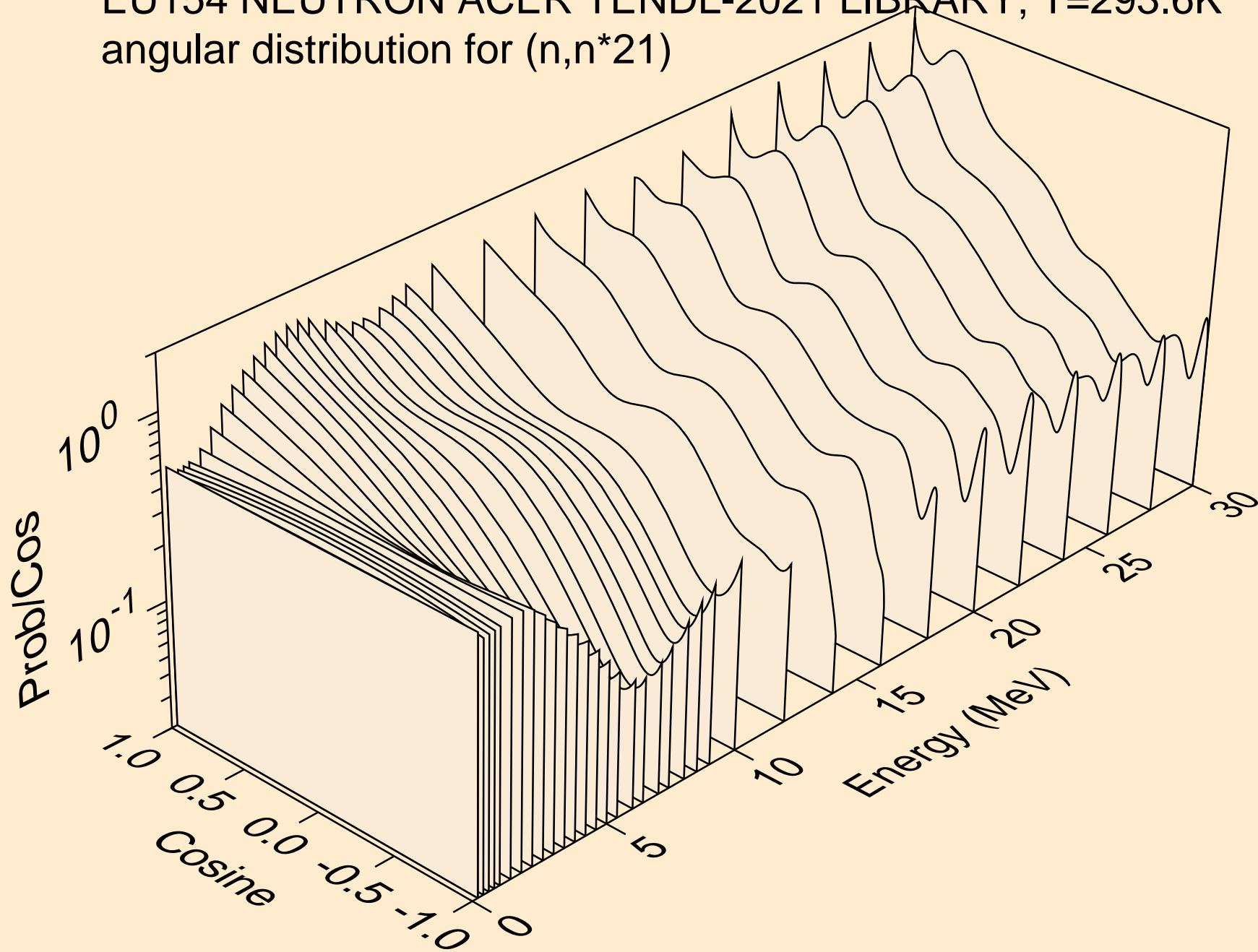
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angular distribution for (n,n\*19)



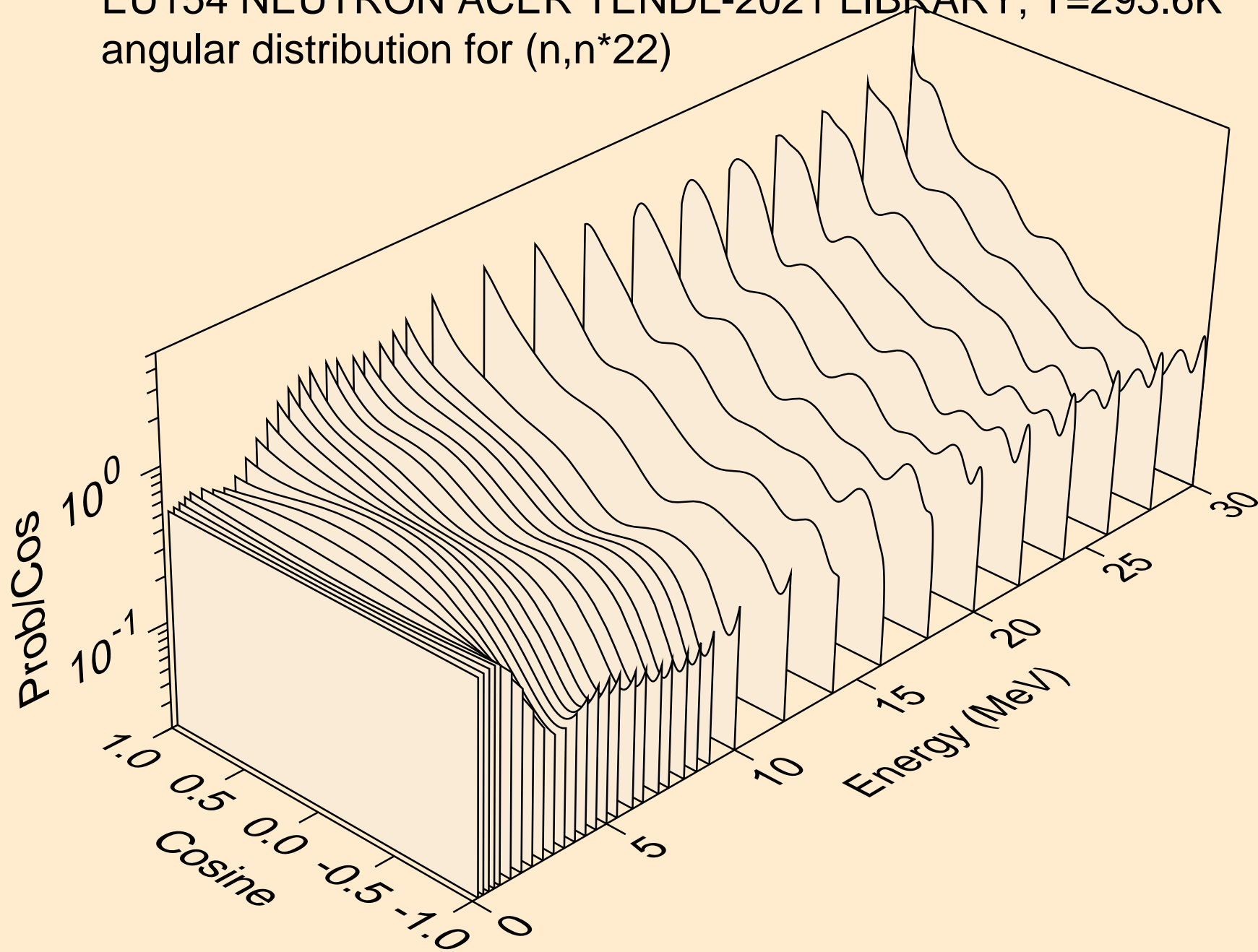
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angular distribution for (n,n\*20)



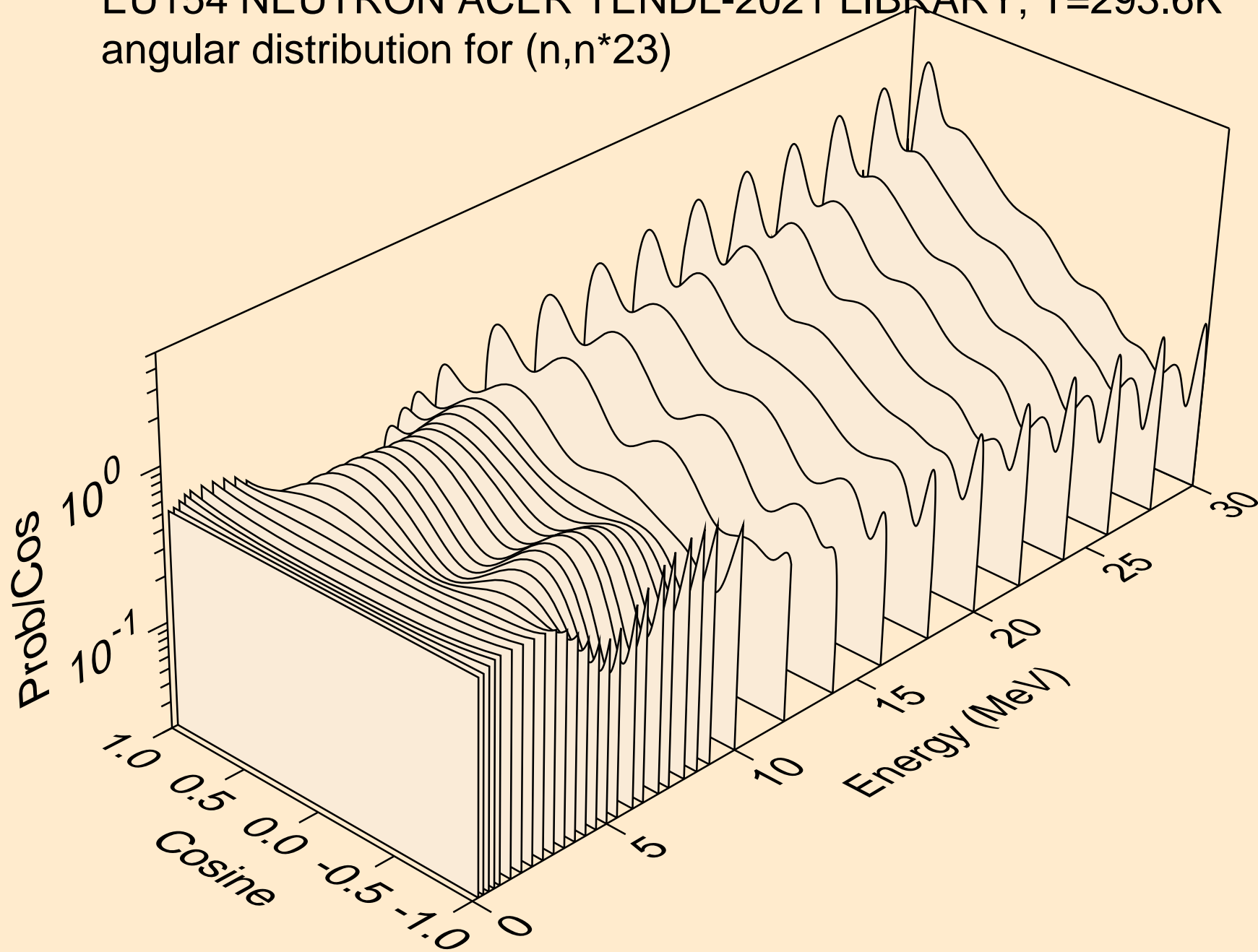
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angular distribution for (n,n\*21)



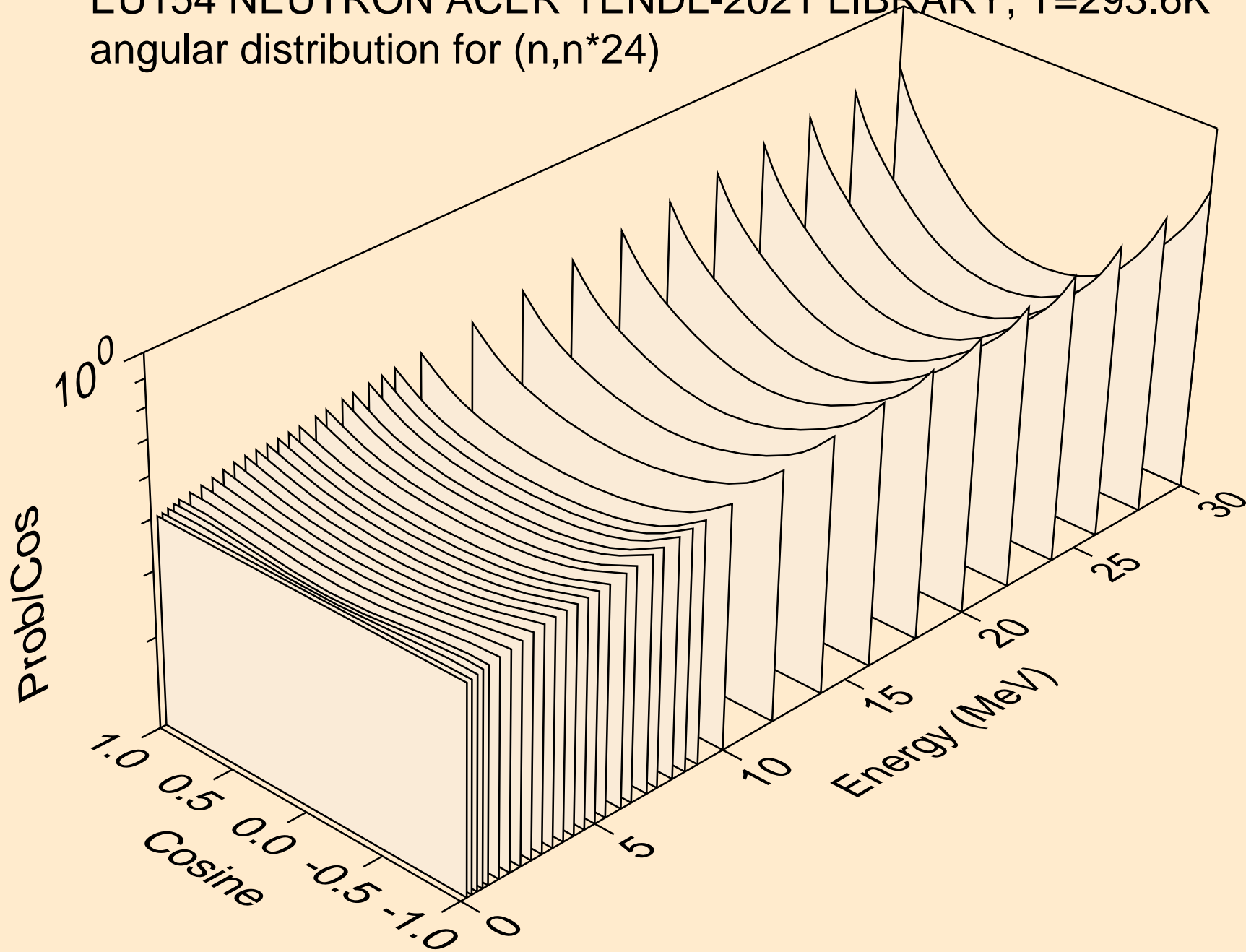
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*22)



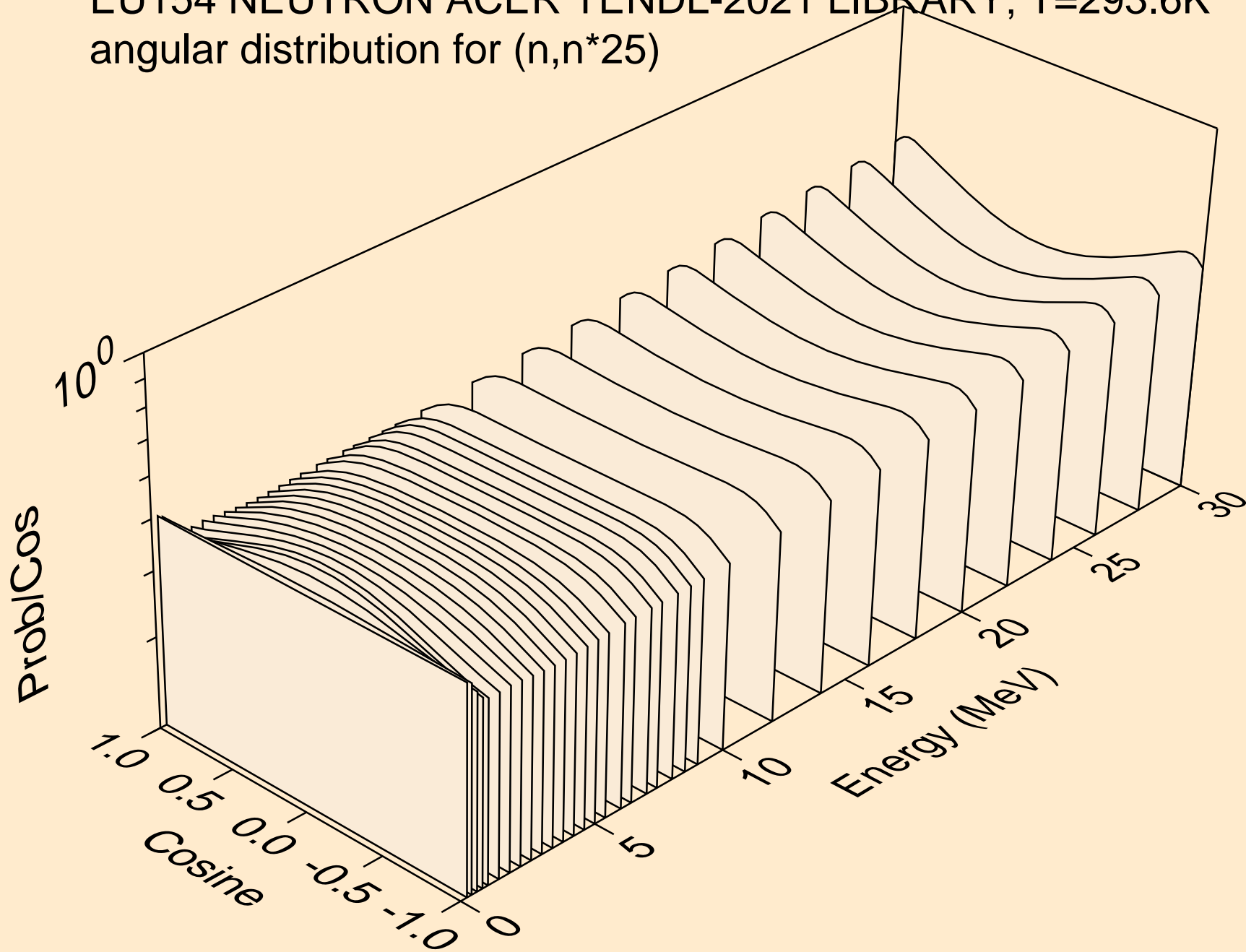
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*23)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*24)

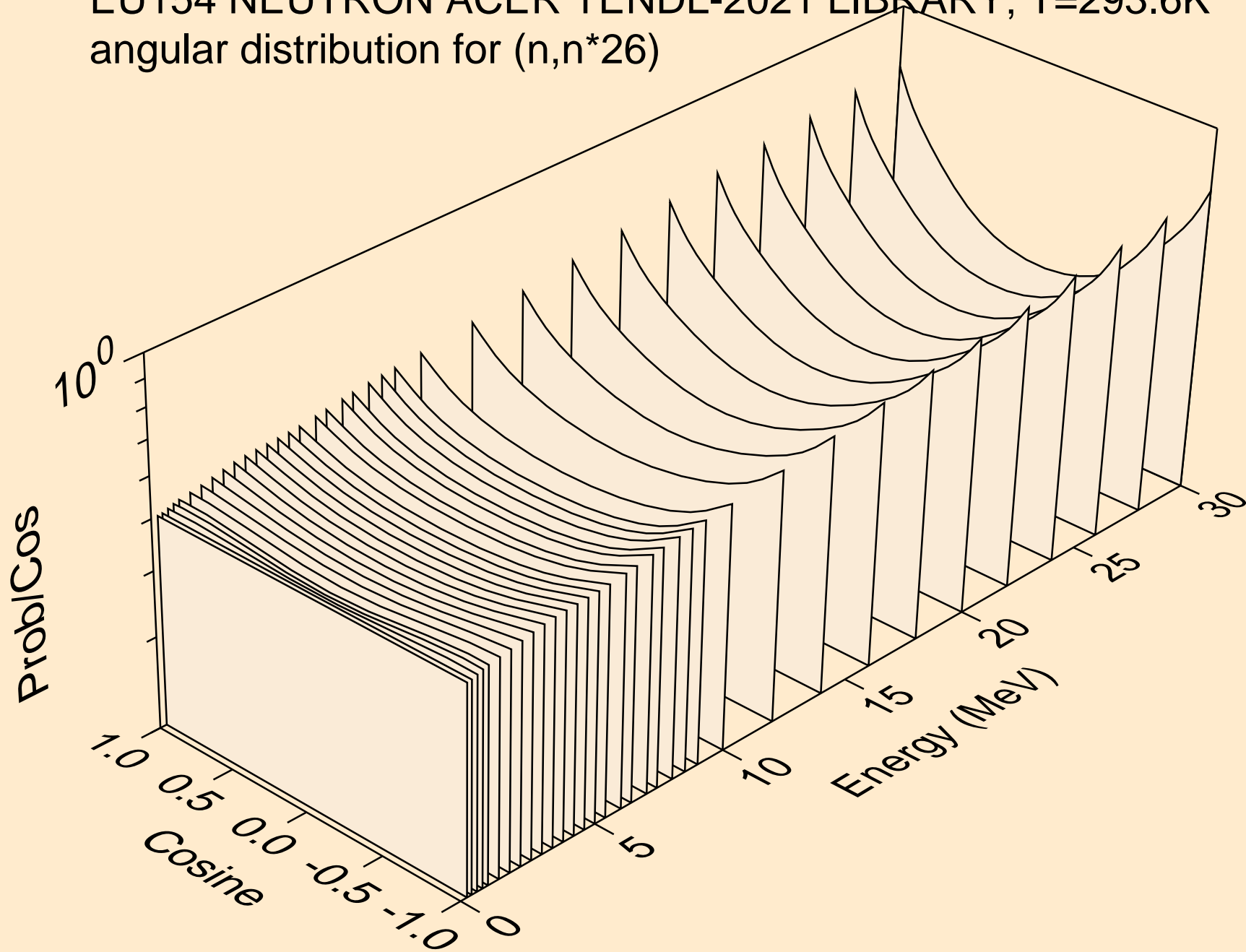


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*25)

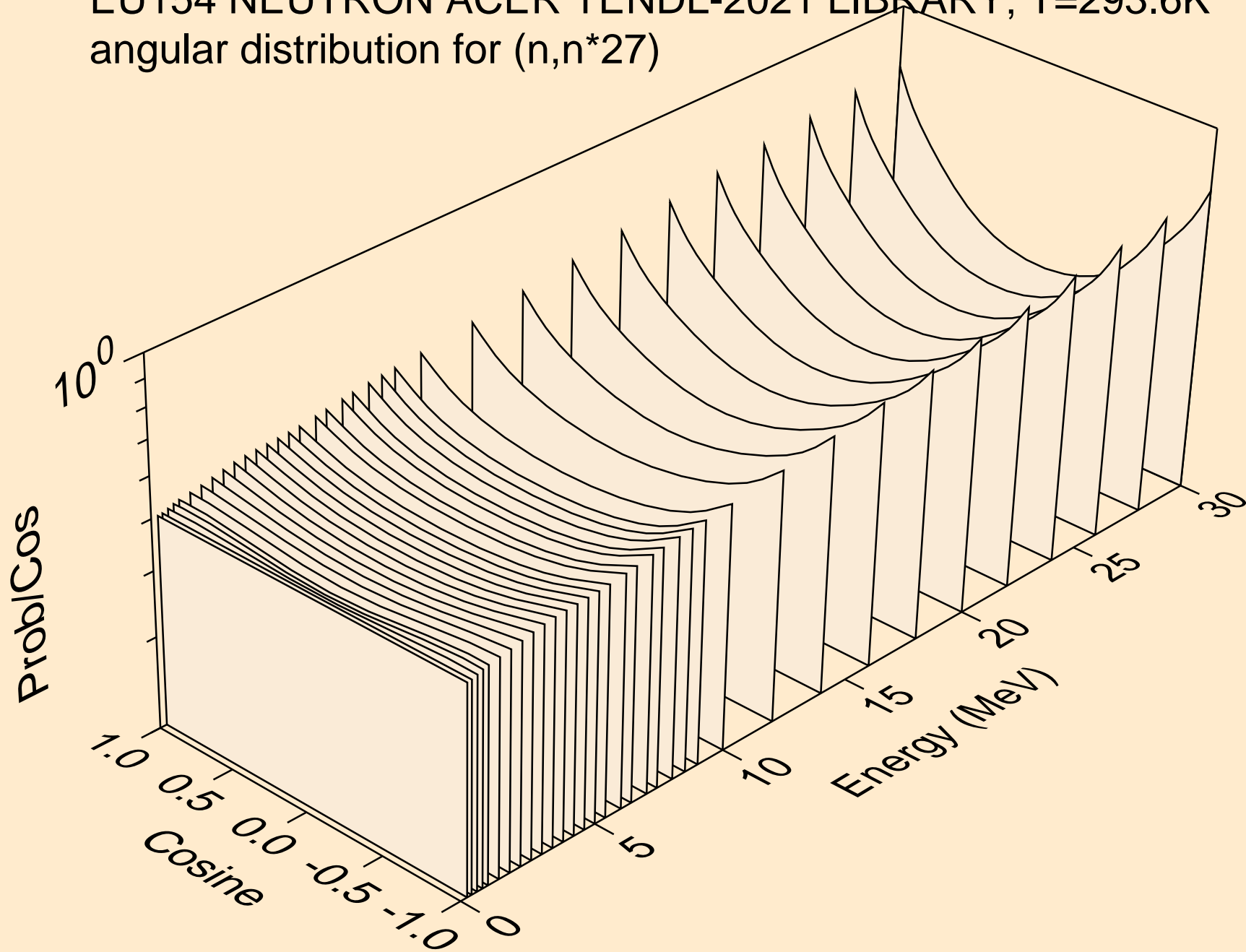




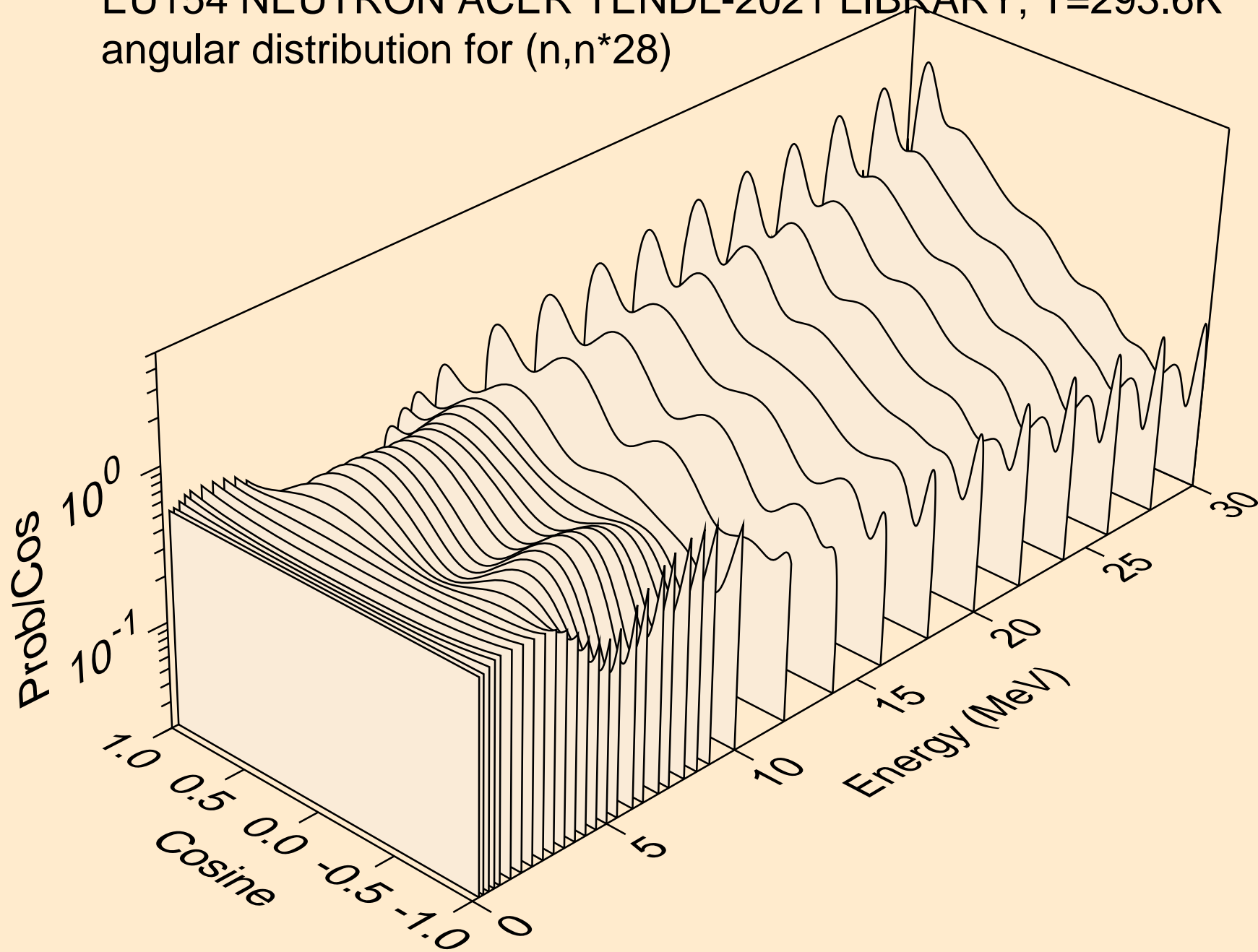
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*26)



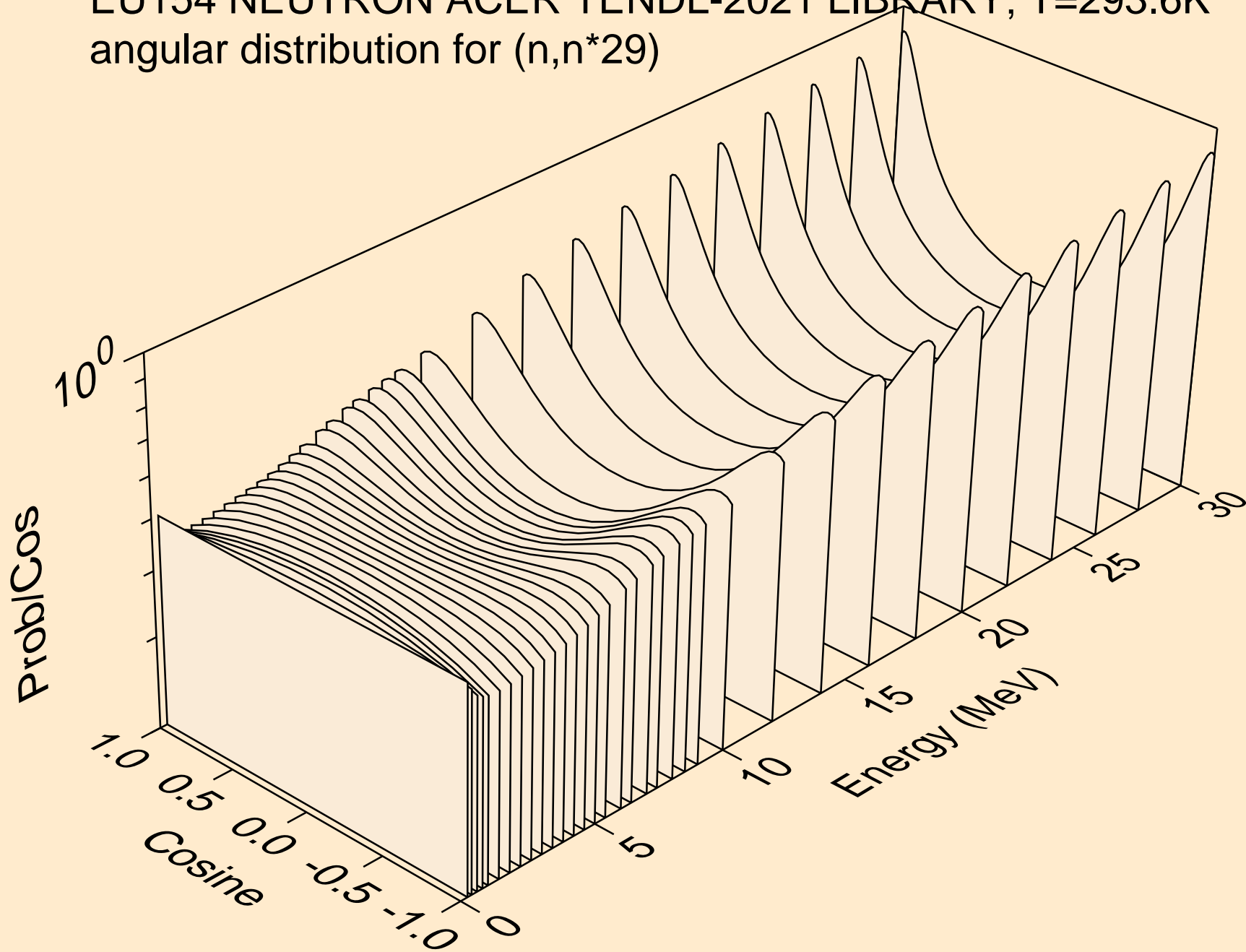
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*27)



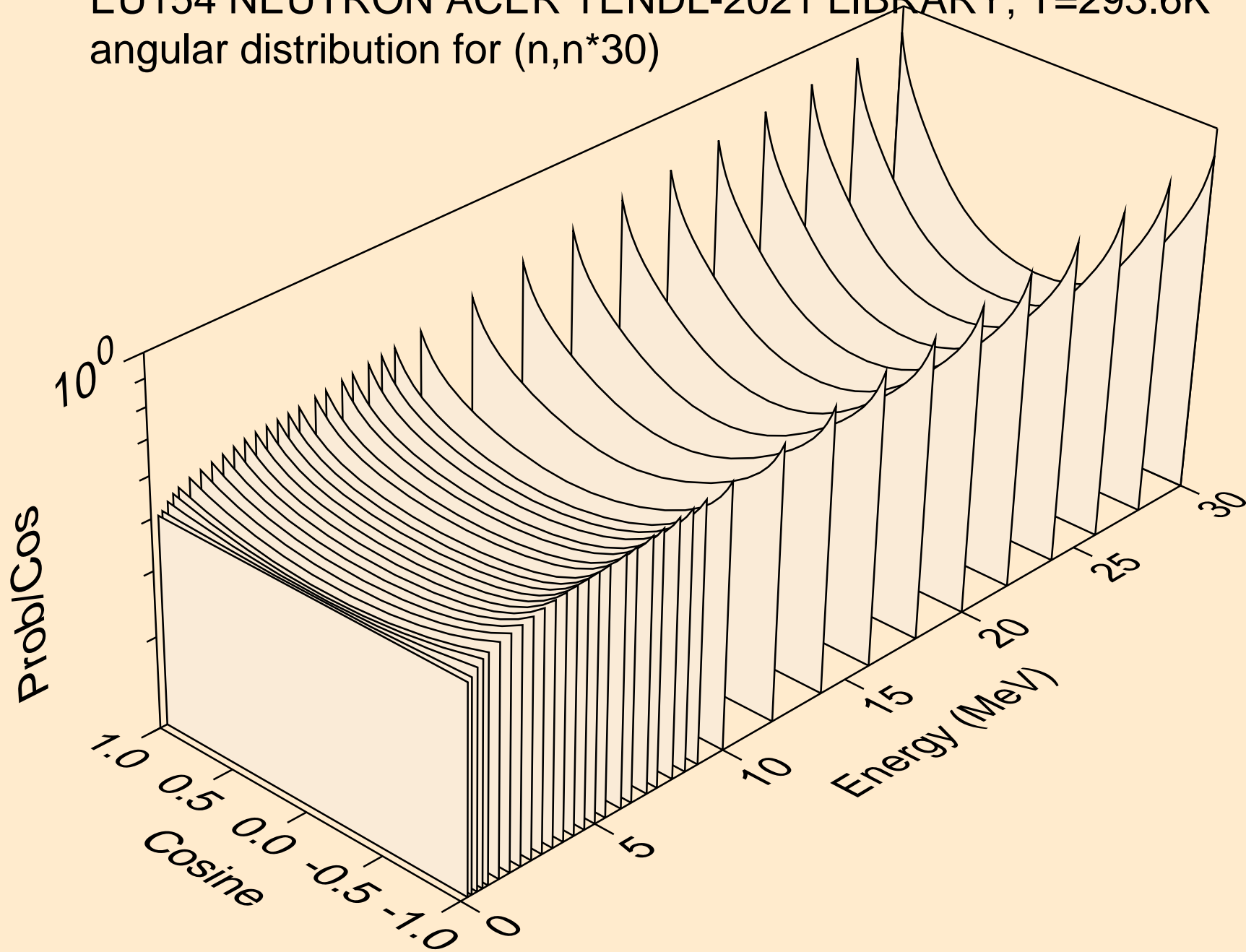
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angular distribution for (n,n\*28)



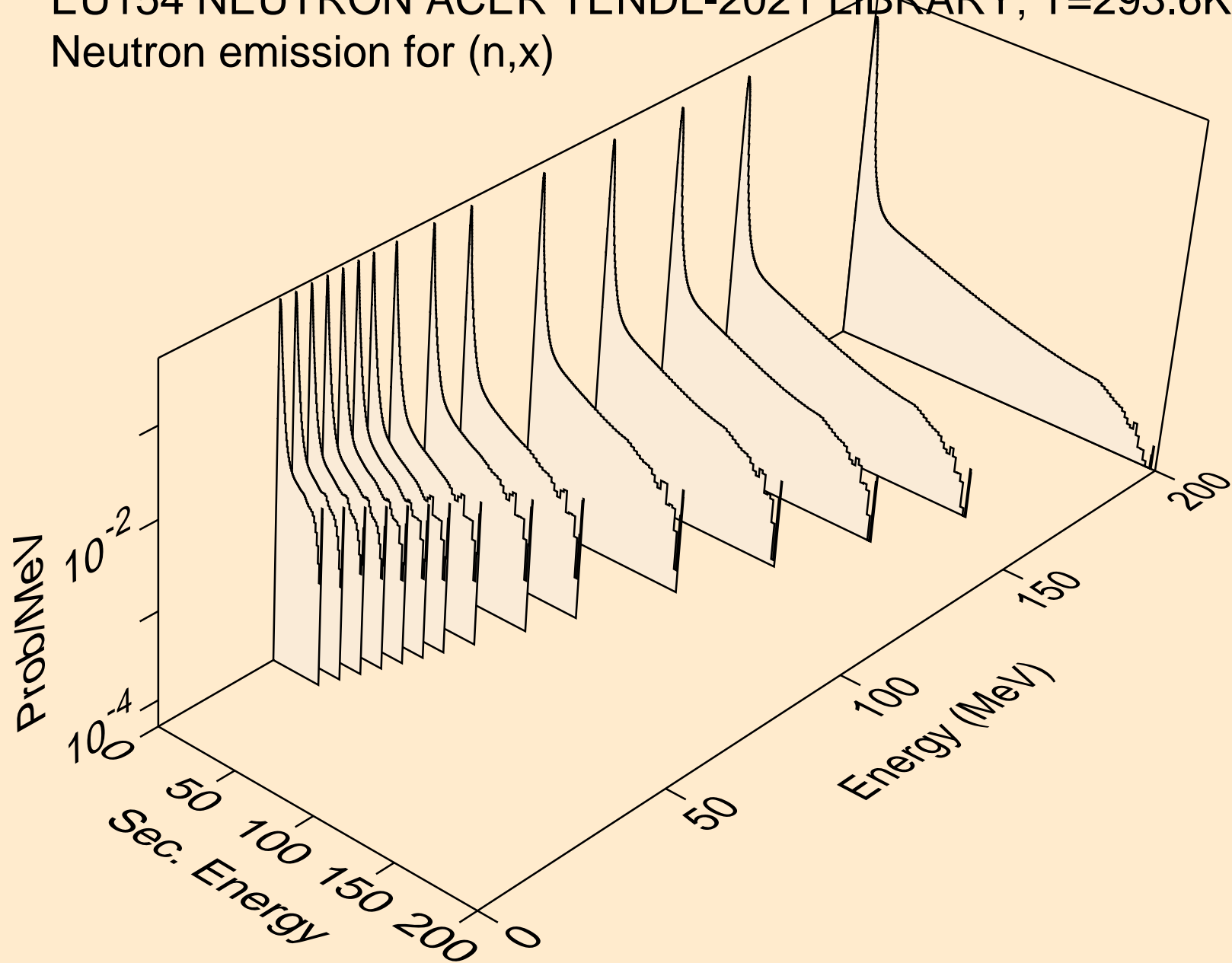
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*29)



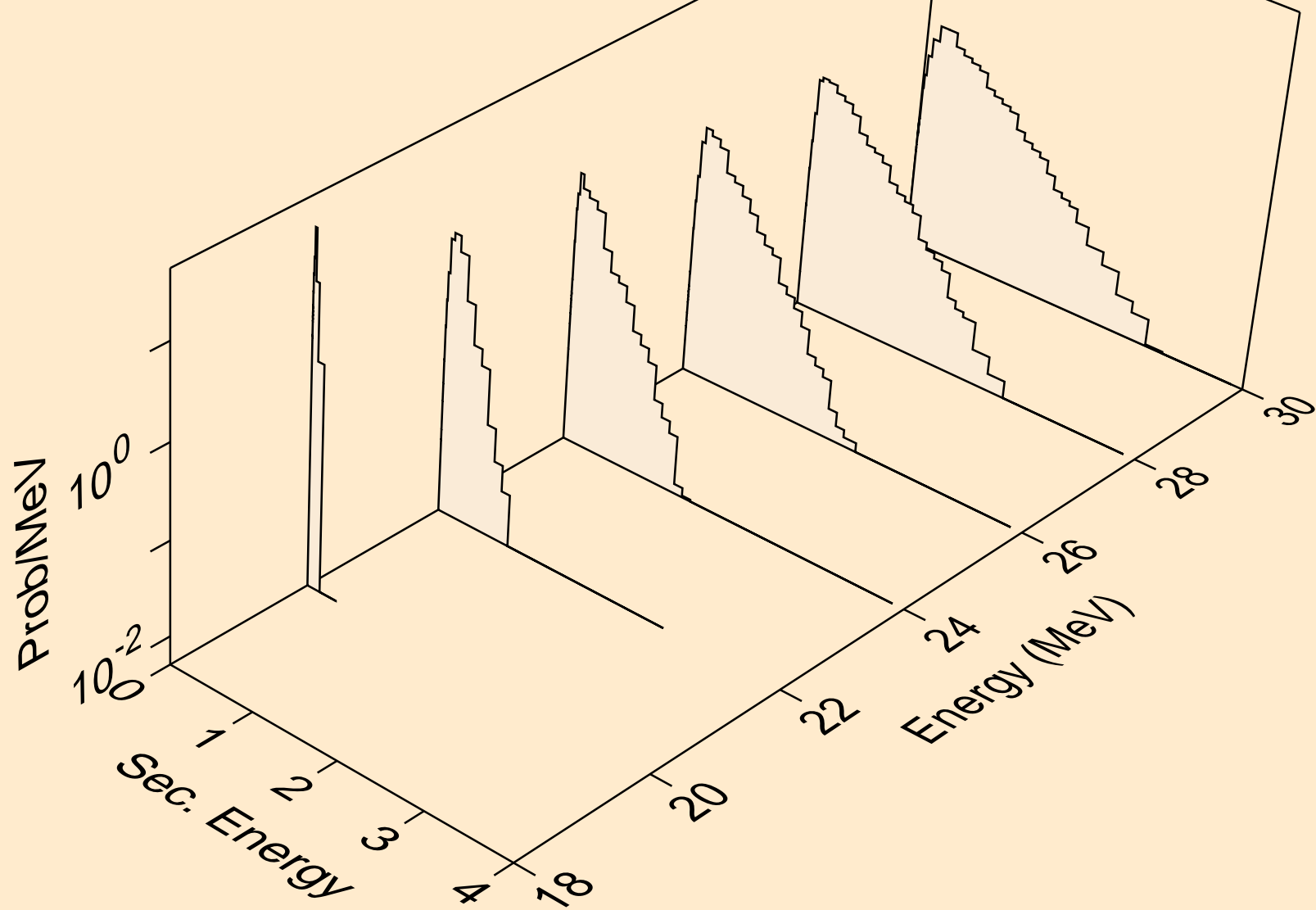
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*30)



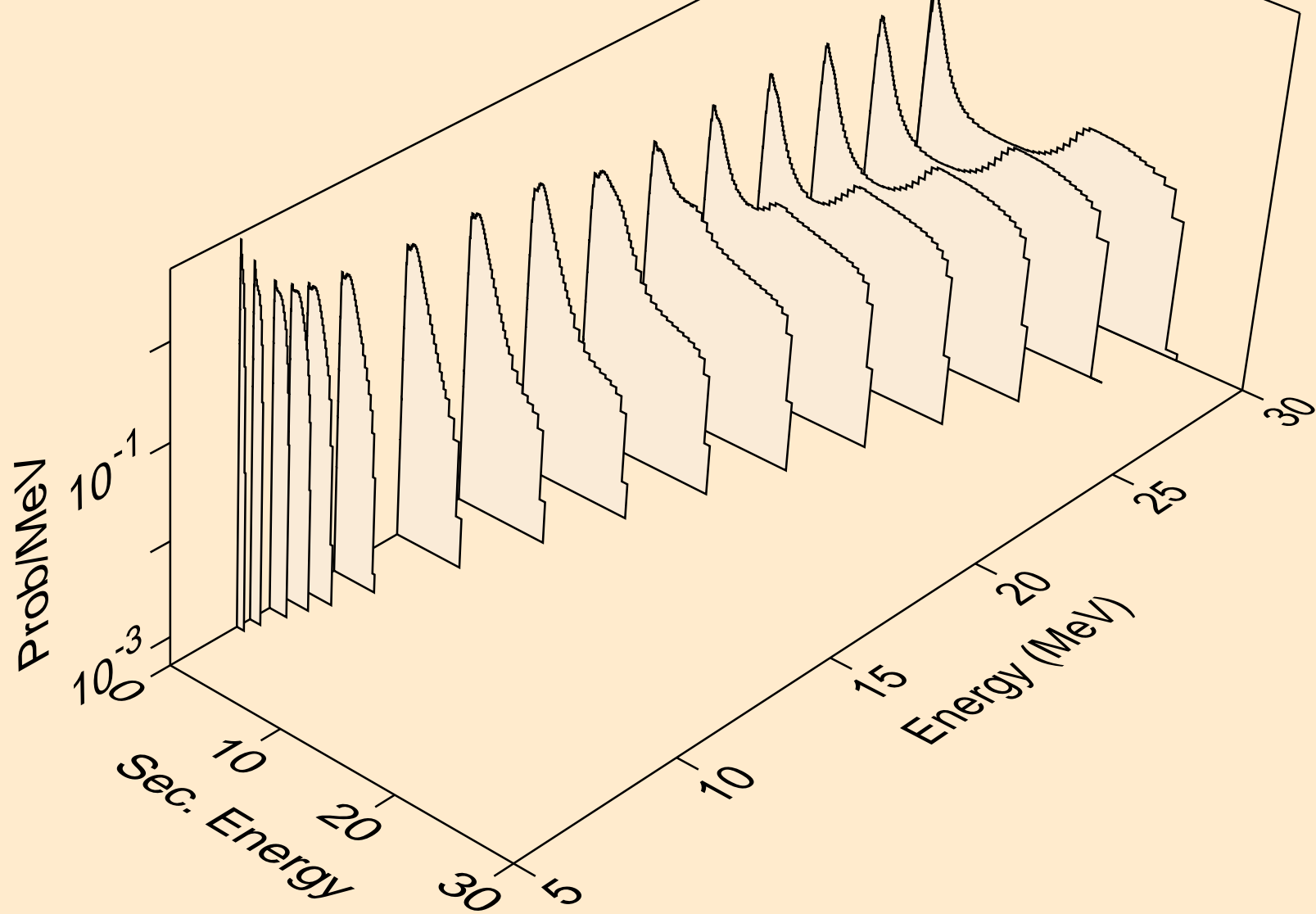
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)

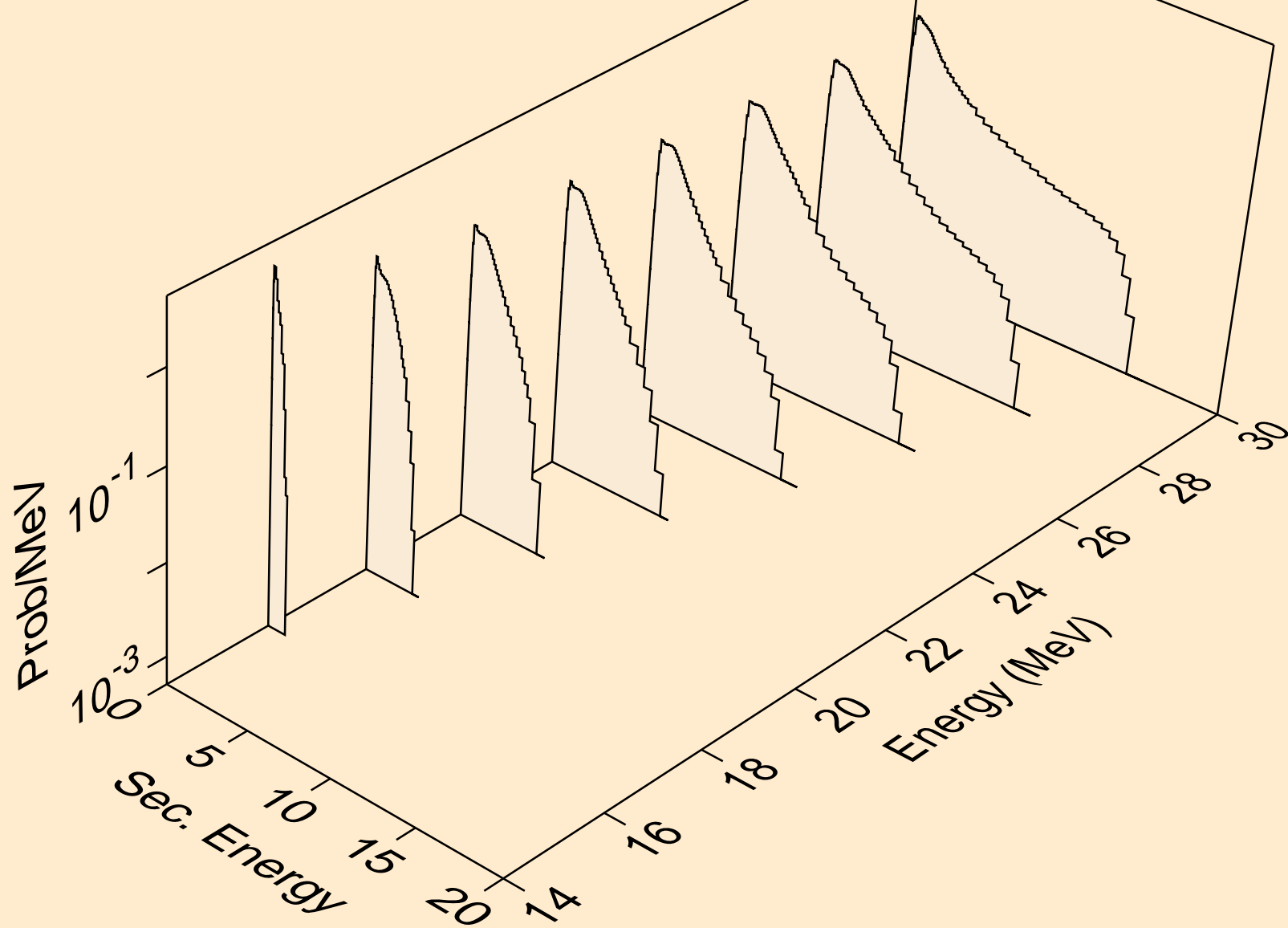


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

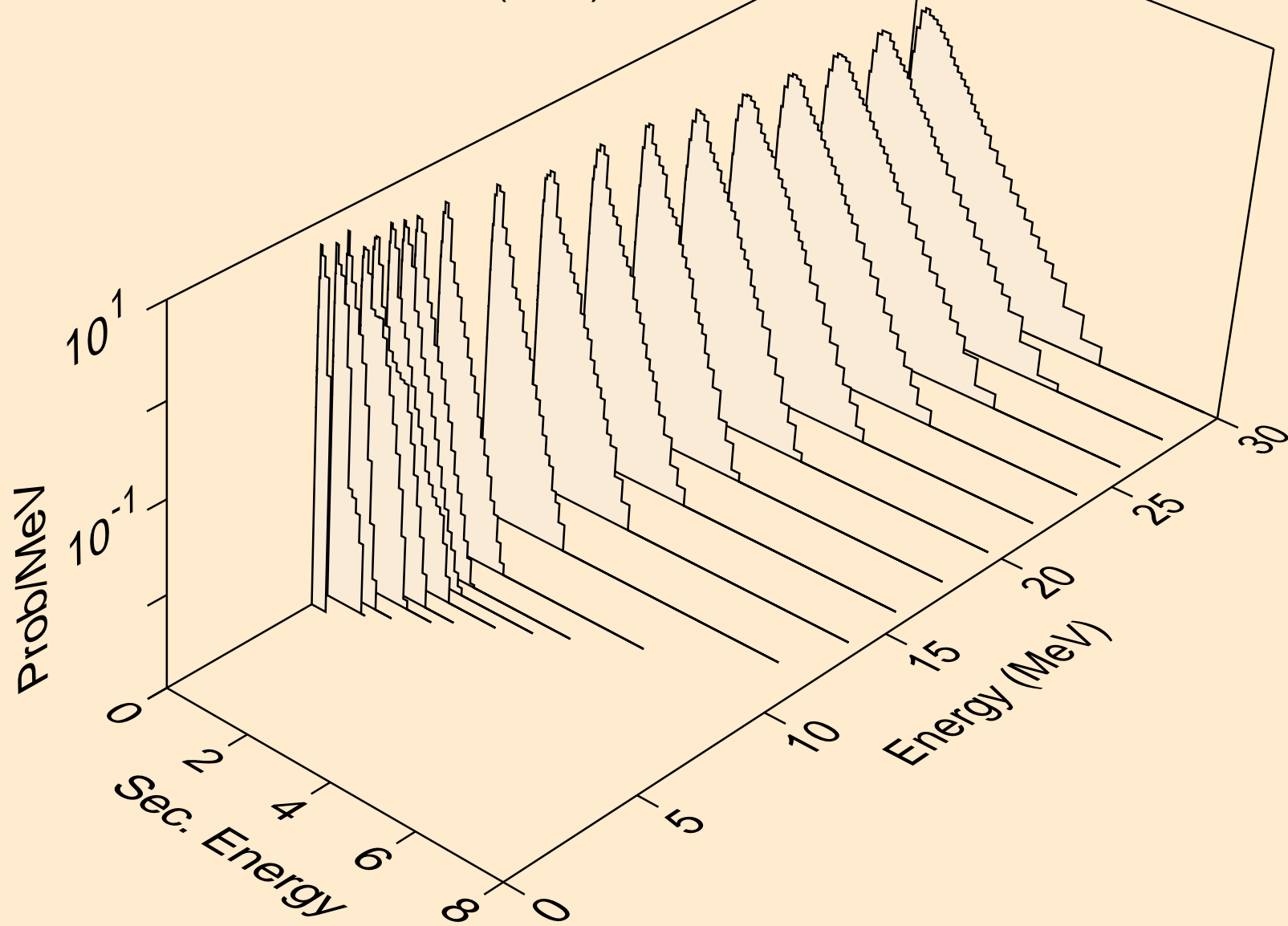




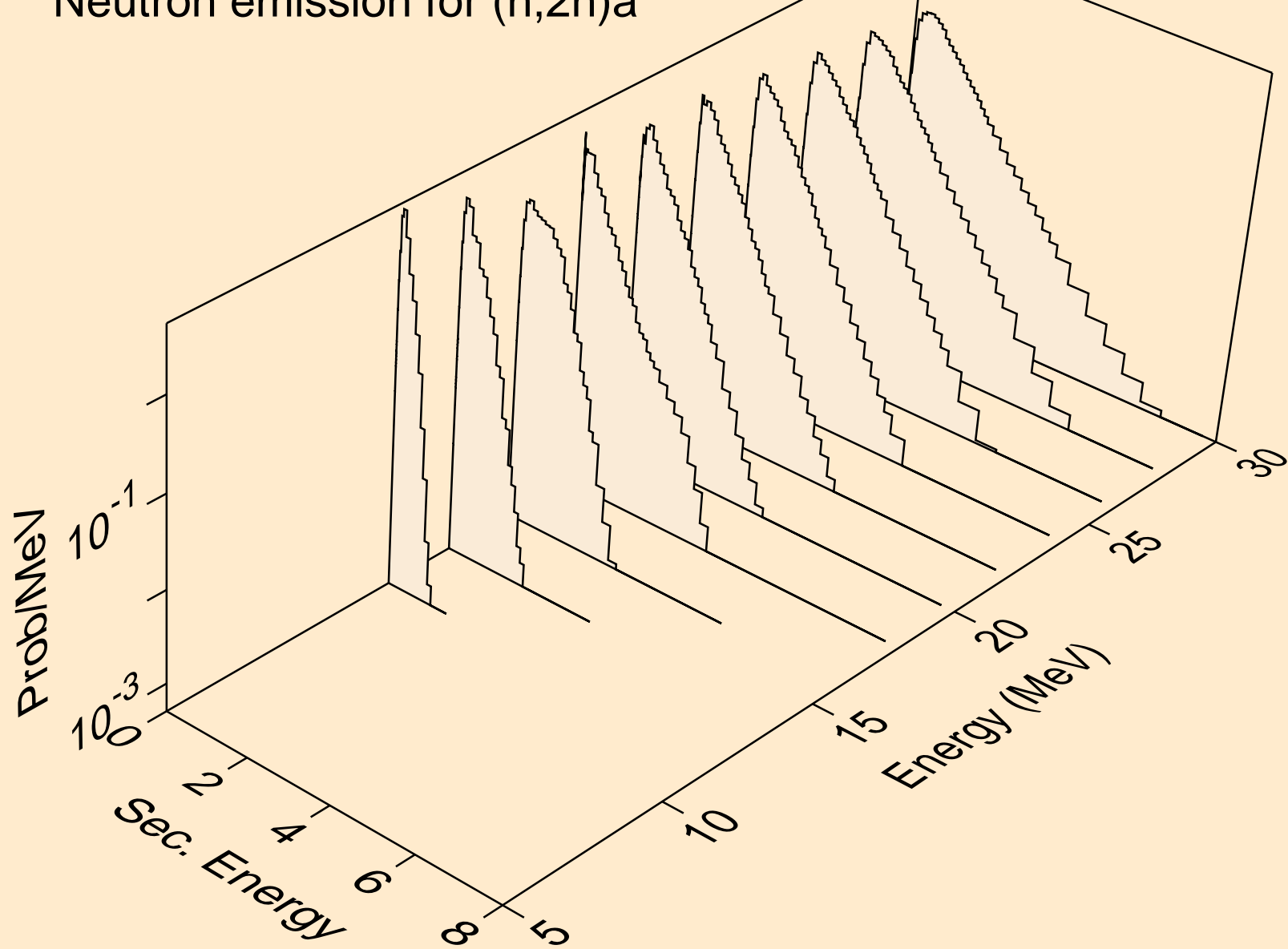
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



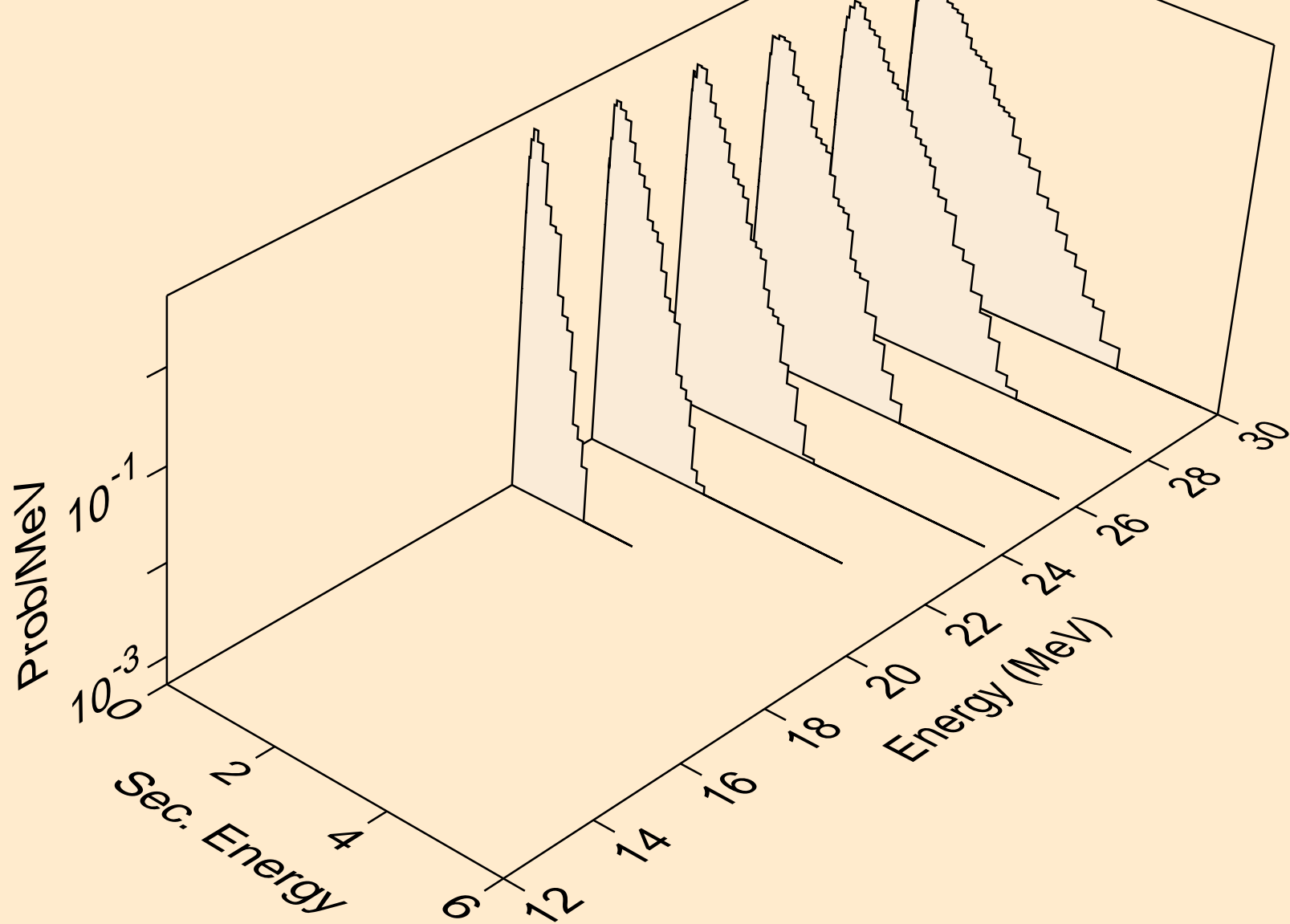
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



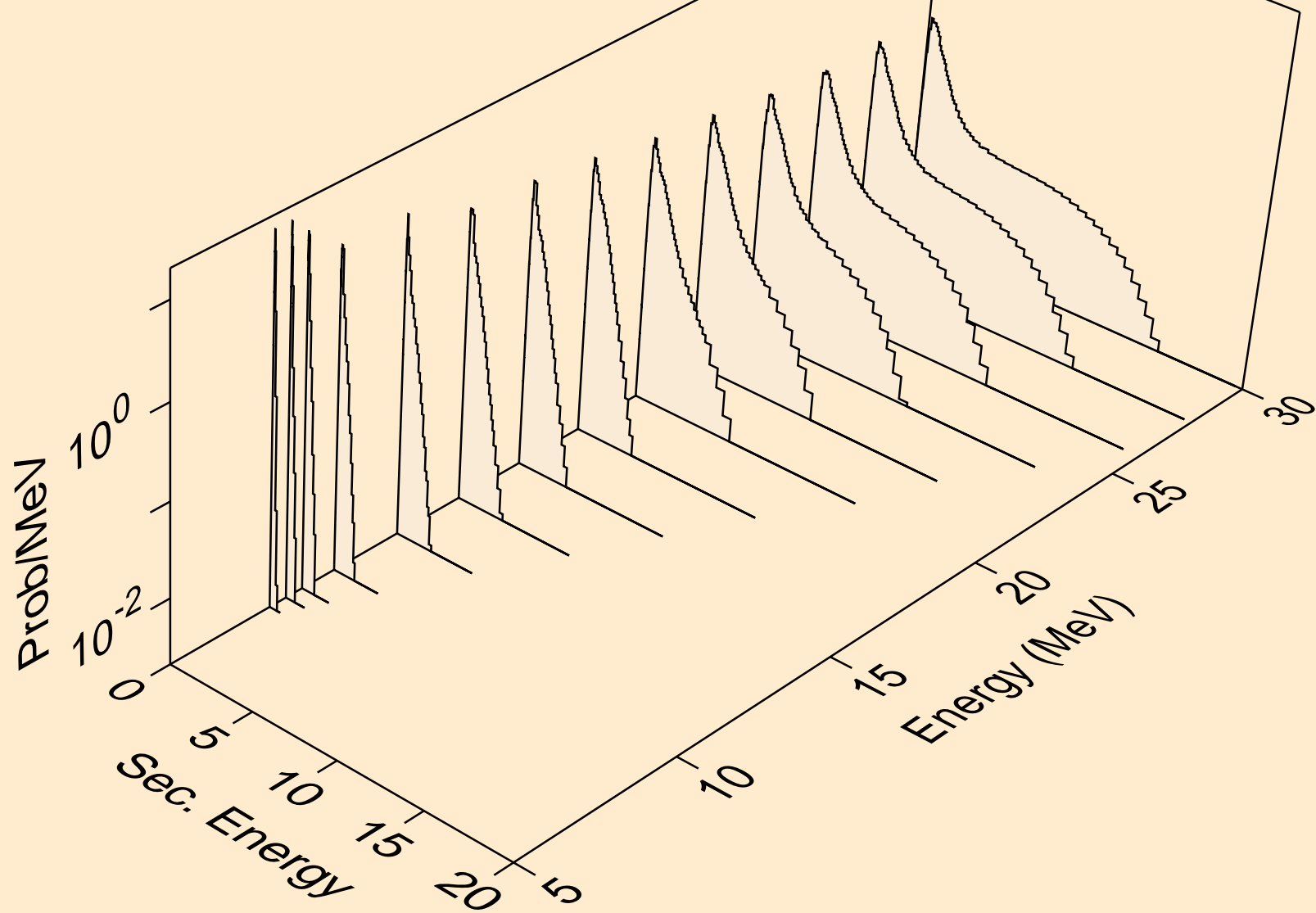
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)<sub>a</sub>



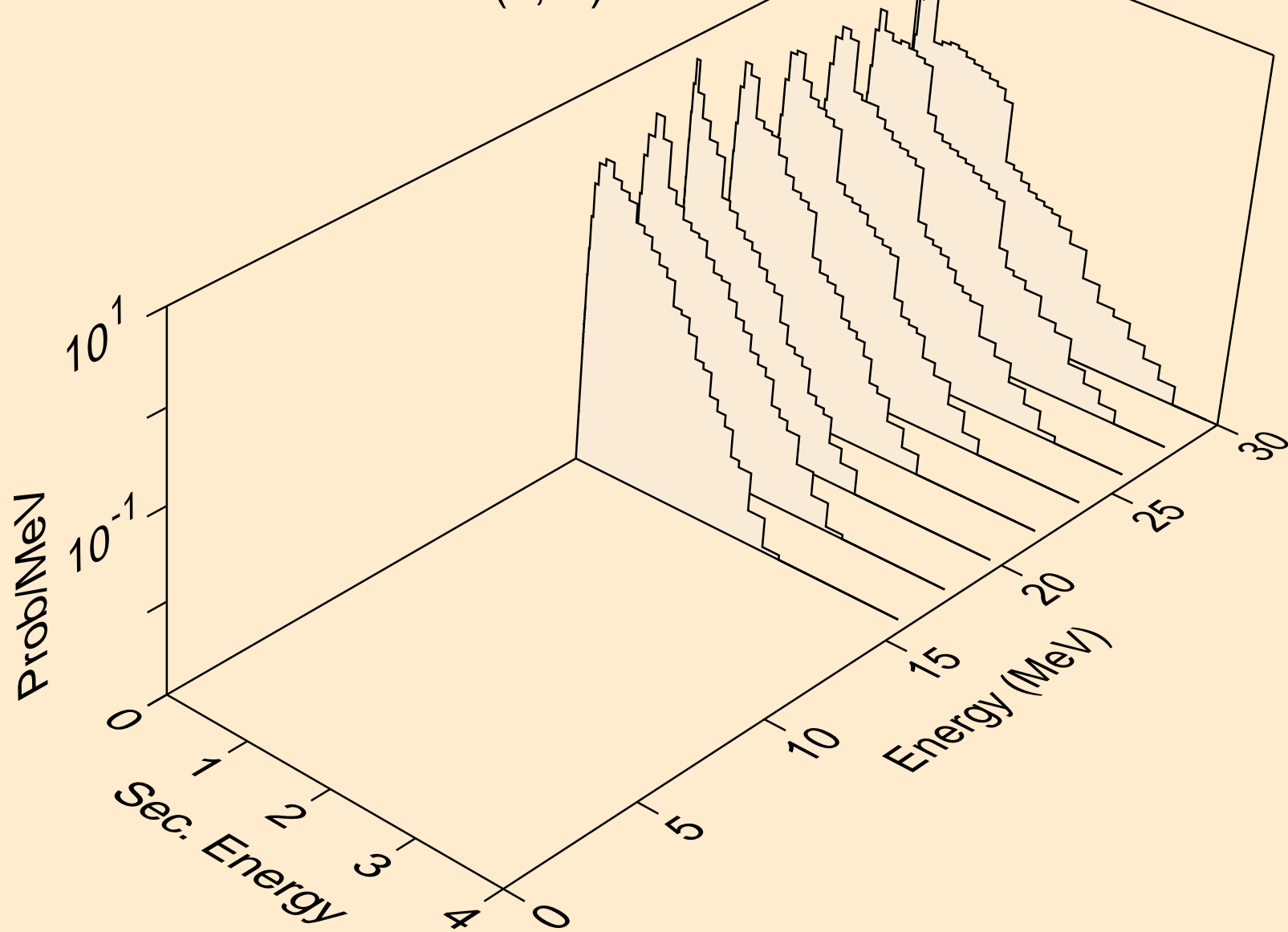
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)<sub>a</sub>



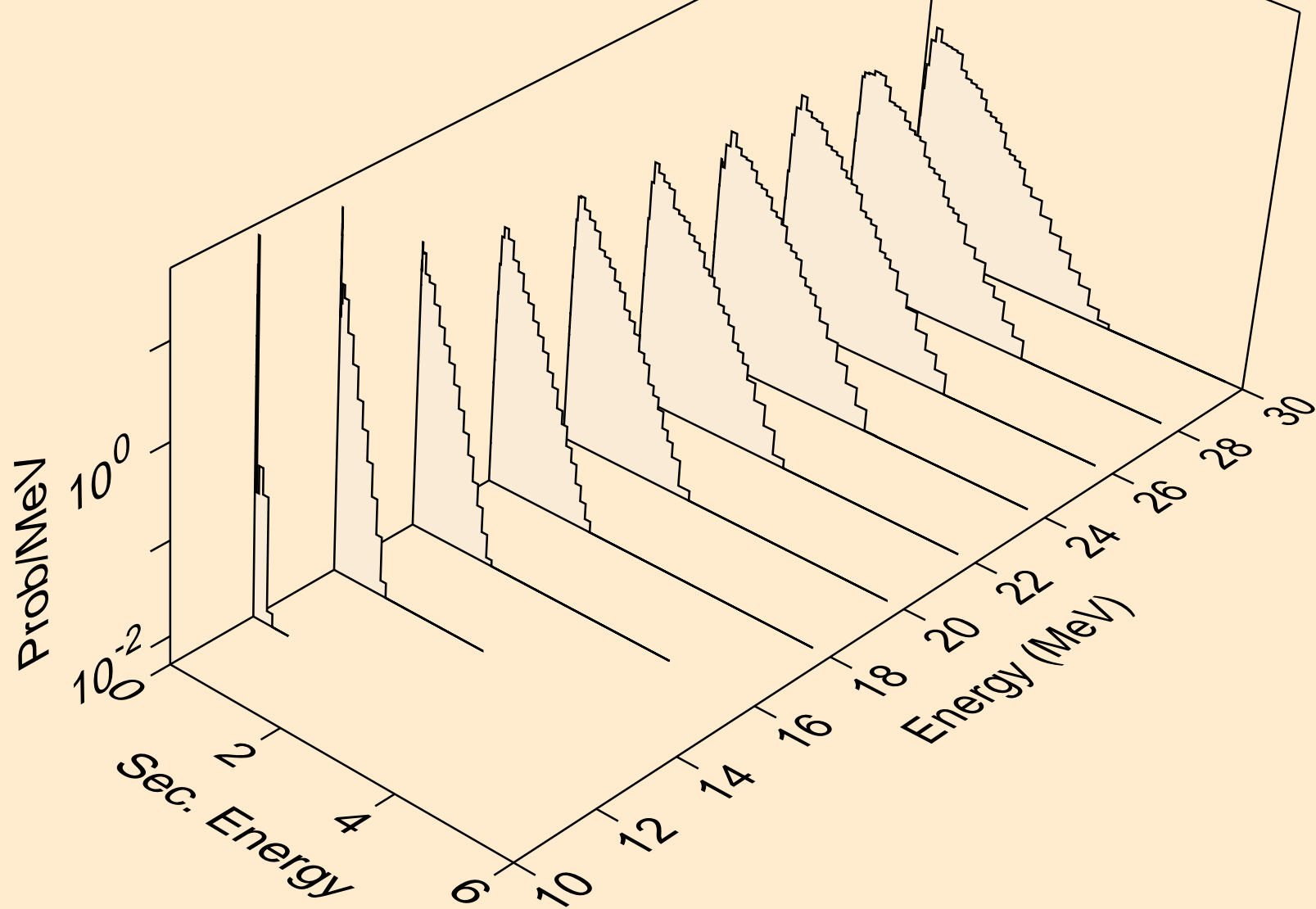
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Neutron emission for (n,n\*)p



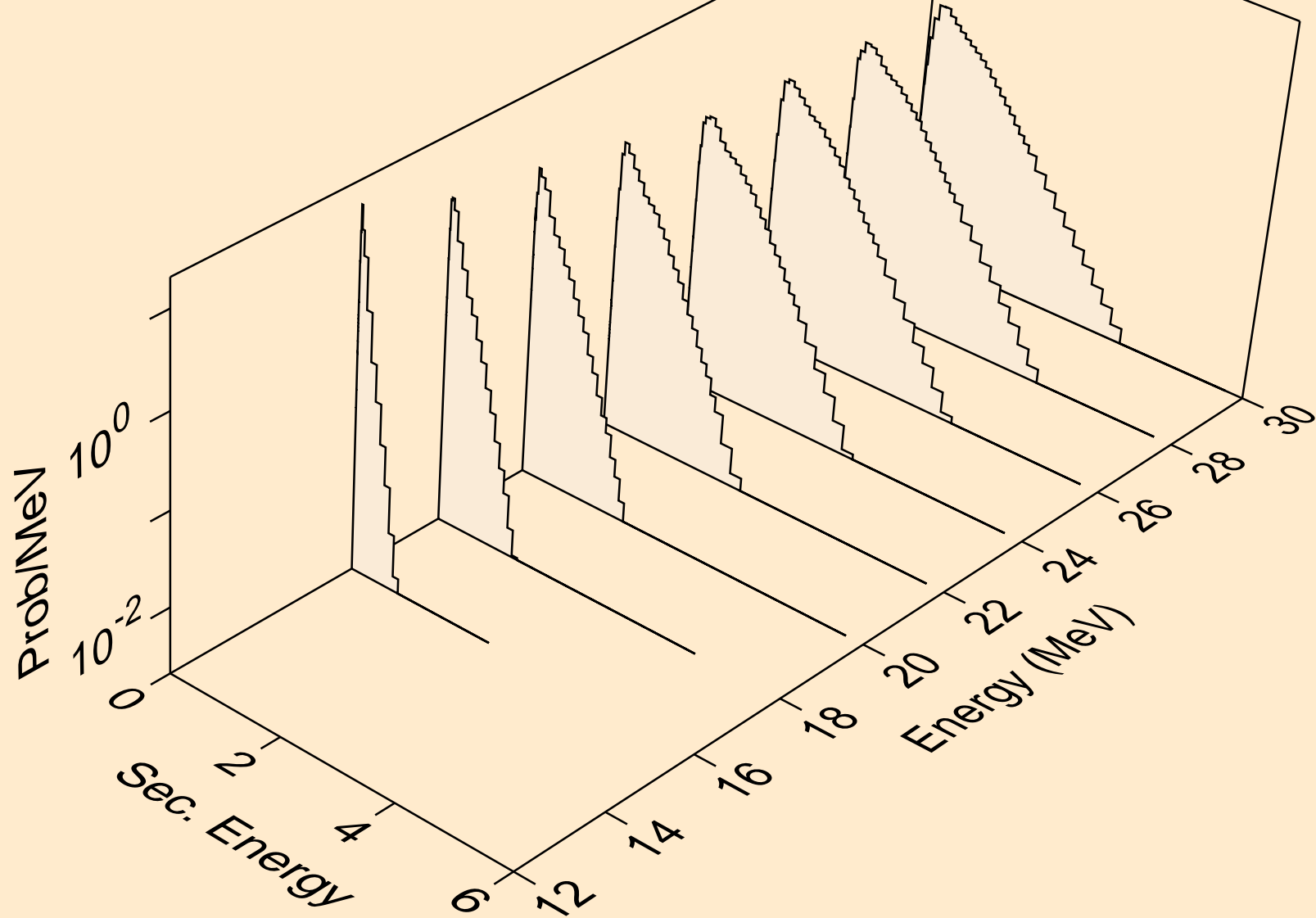
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)2a



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

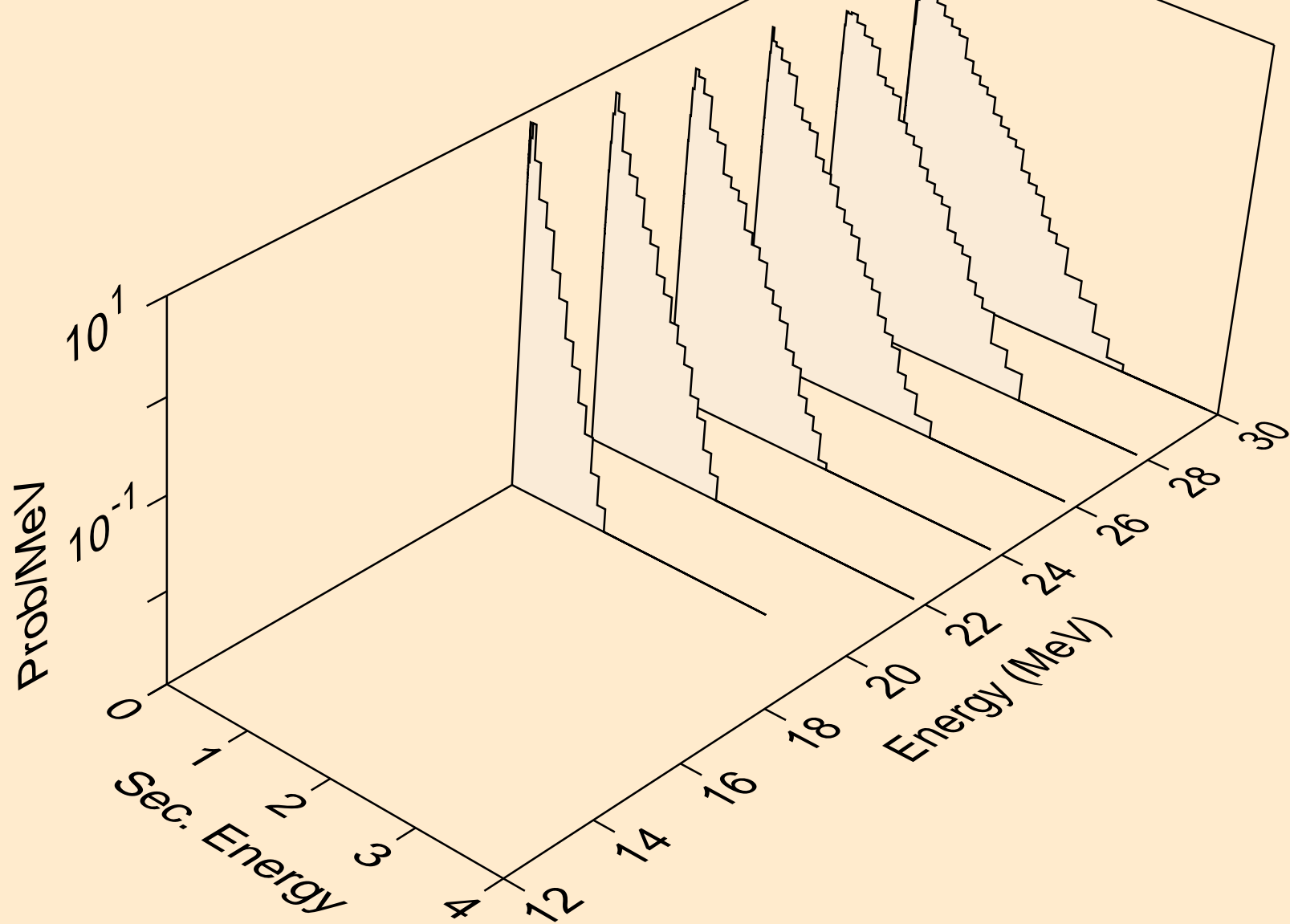


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

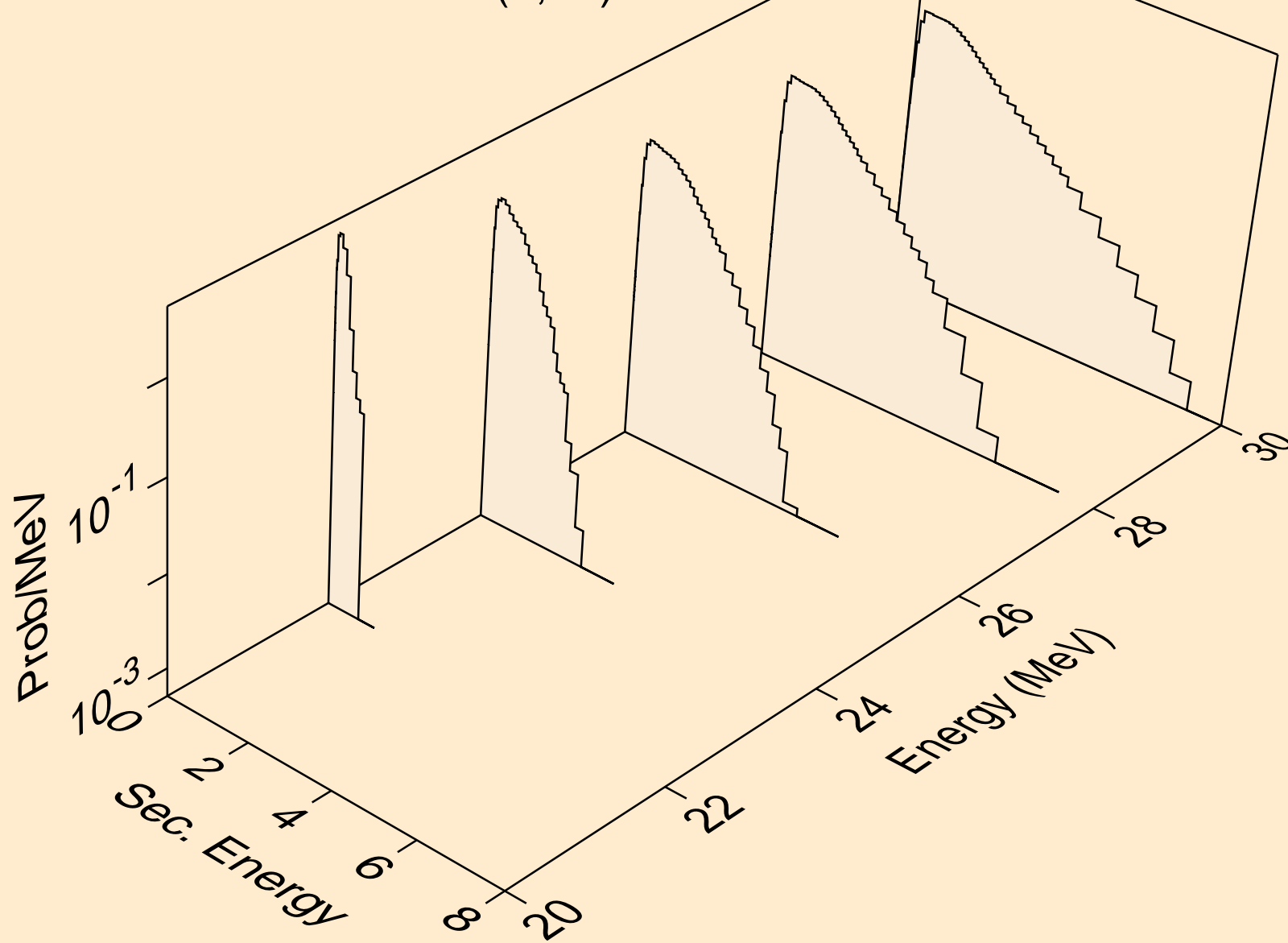




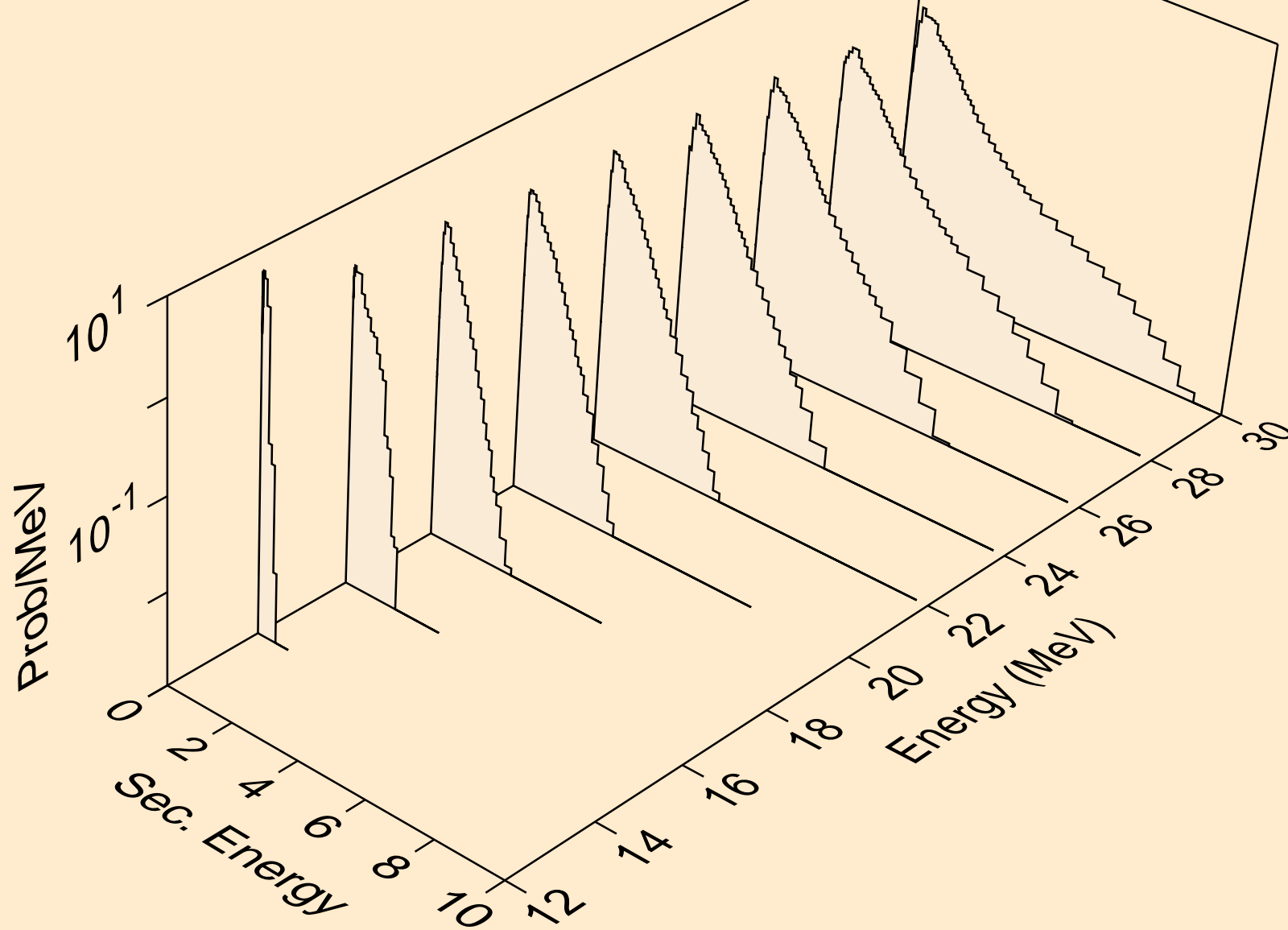
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



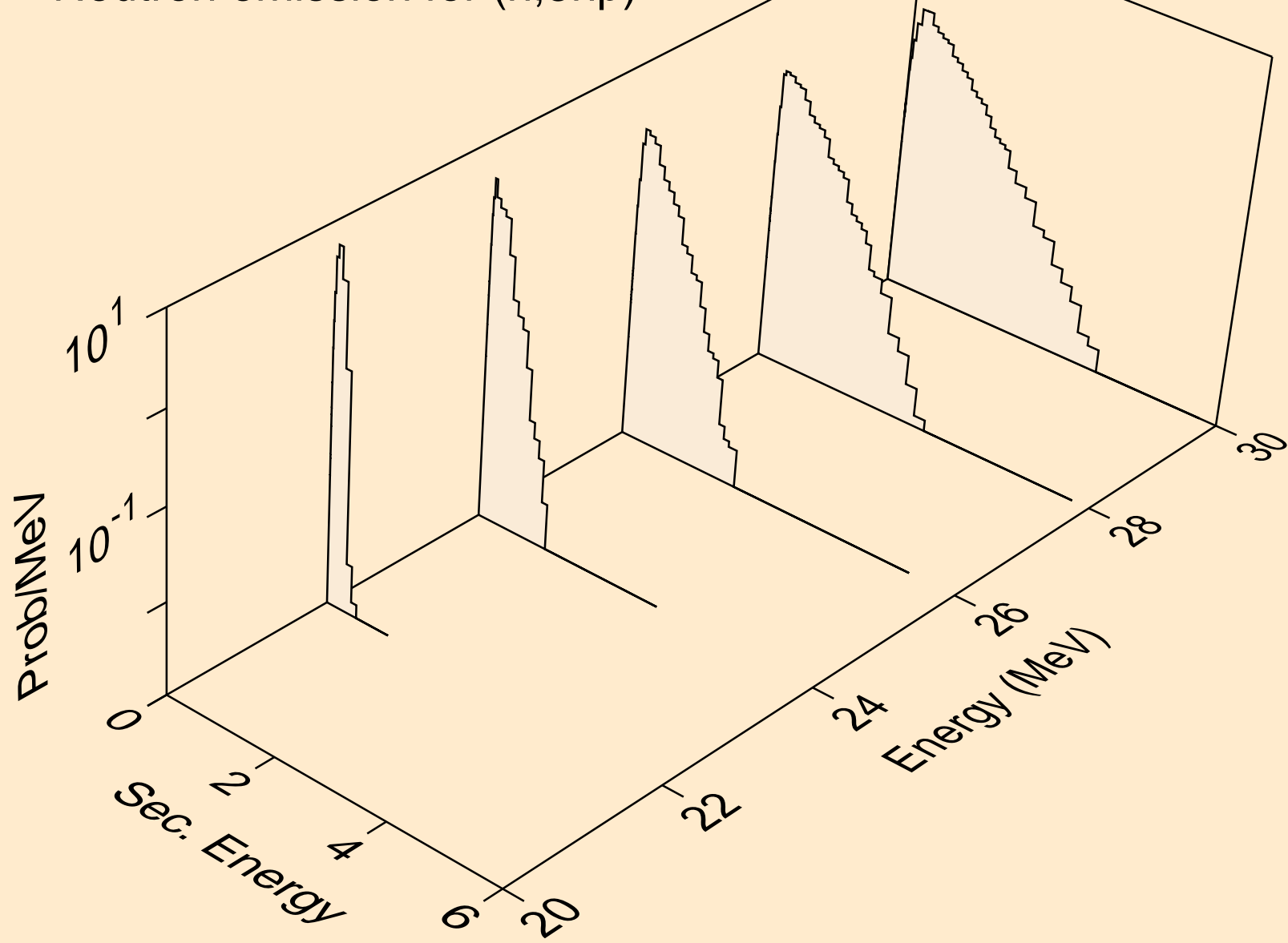
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,4n)



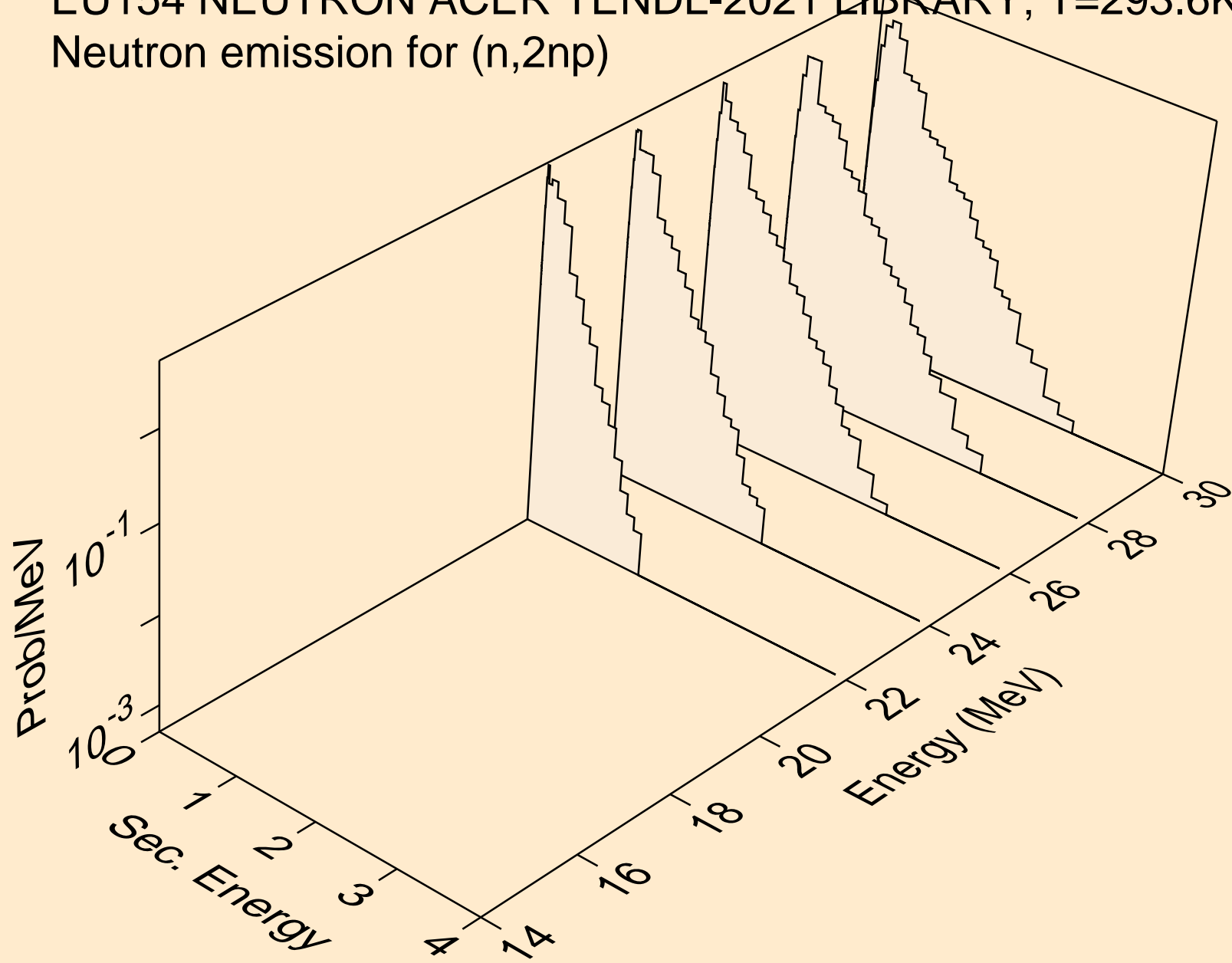
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Neutron emission for (n,2np)



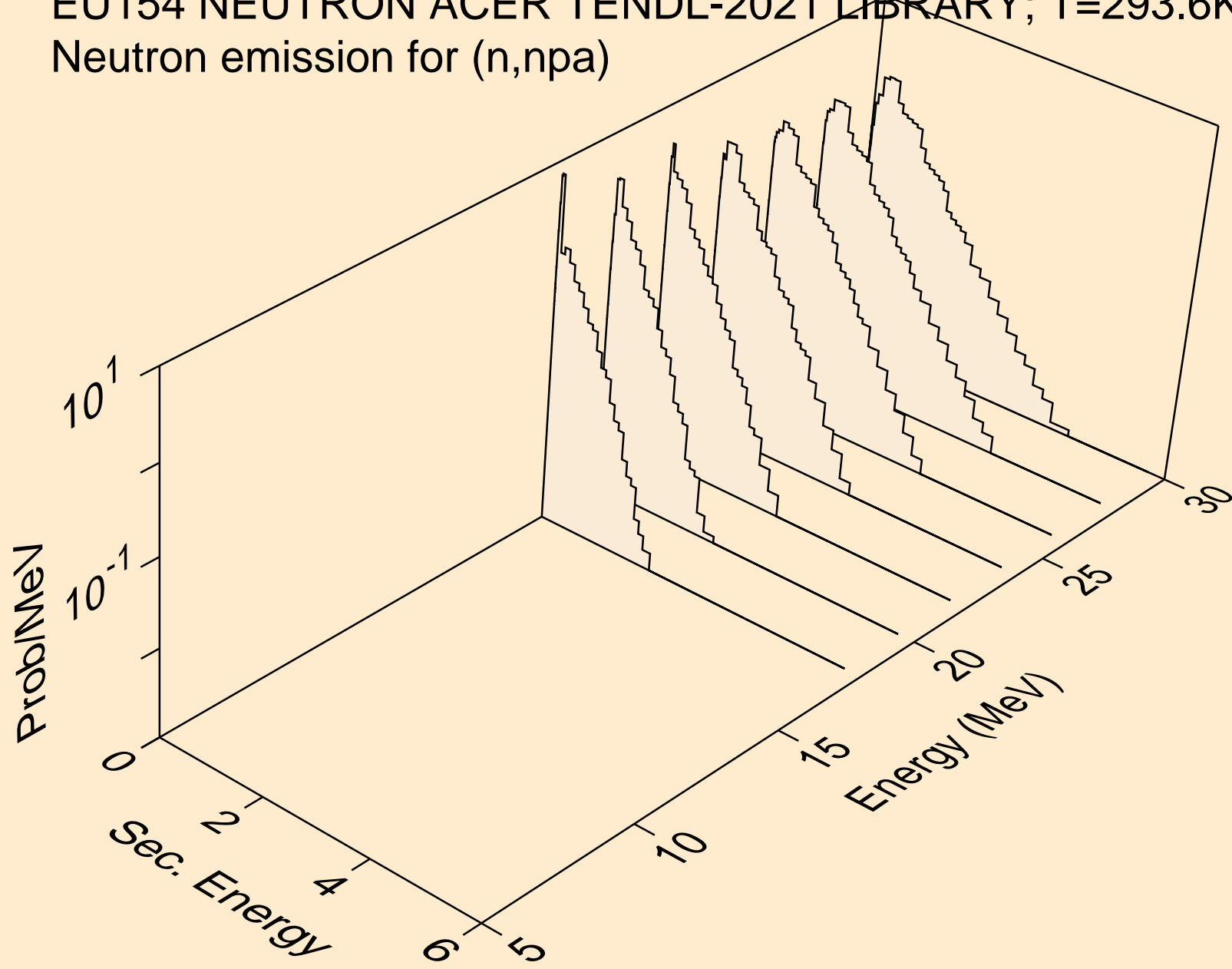
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Neutron emission for (n,3np)



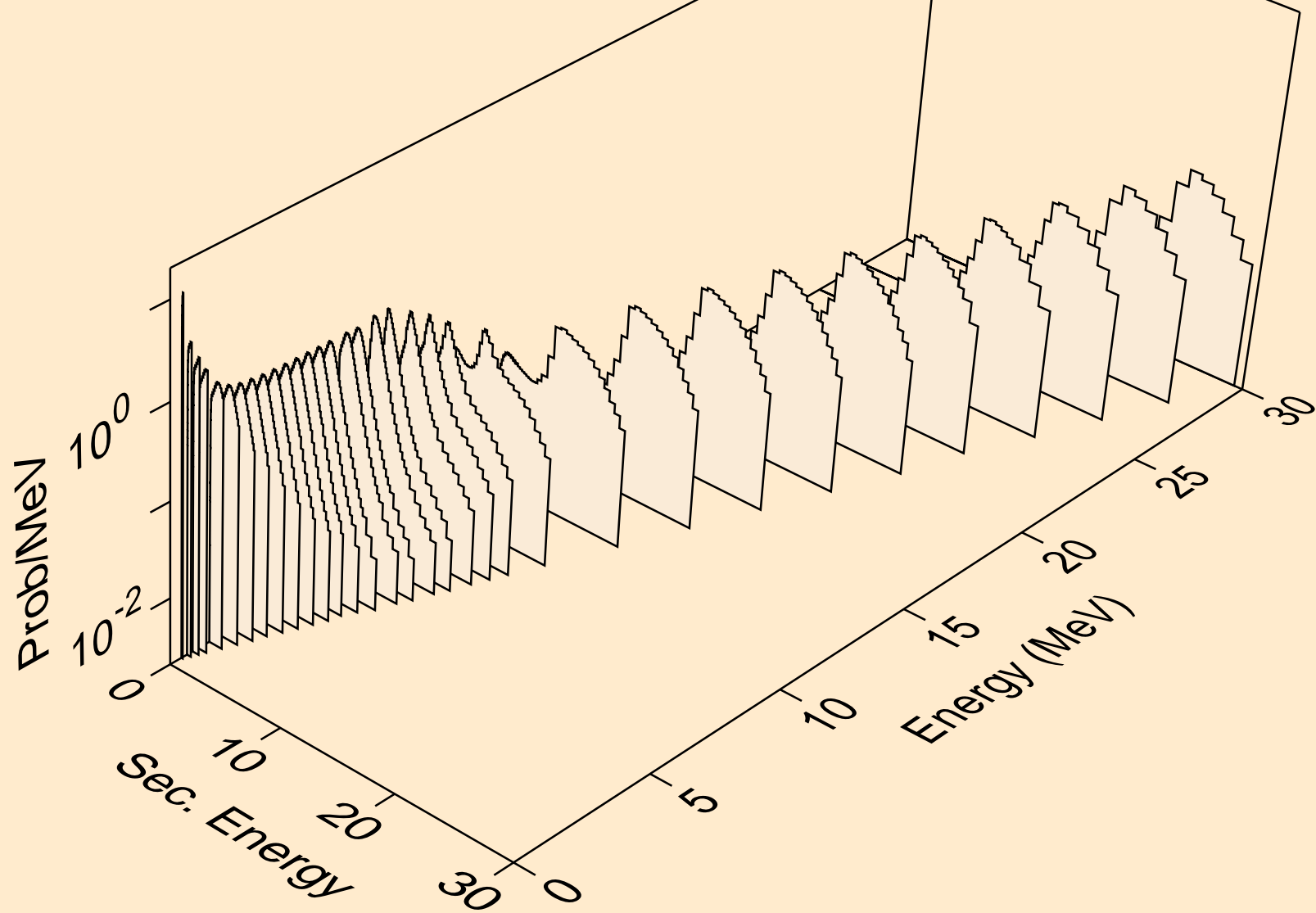
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Neutron emission for (n,2np)



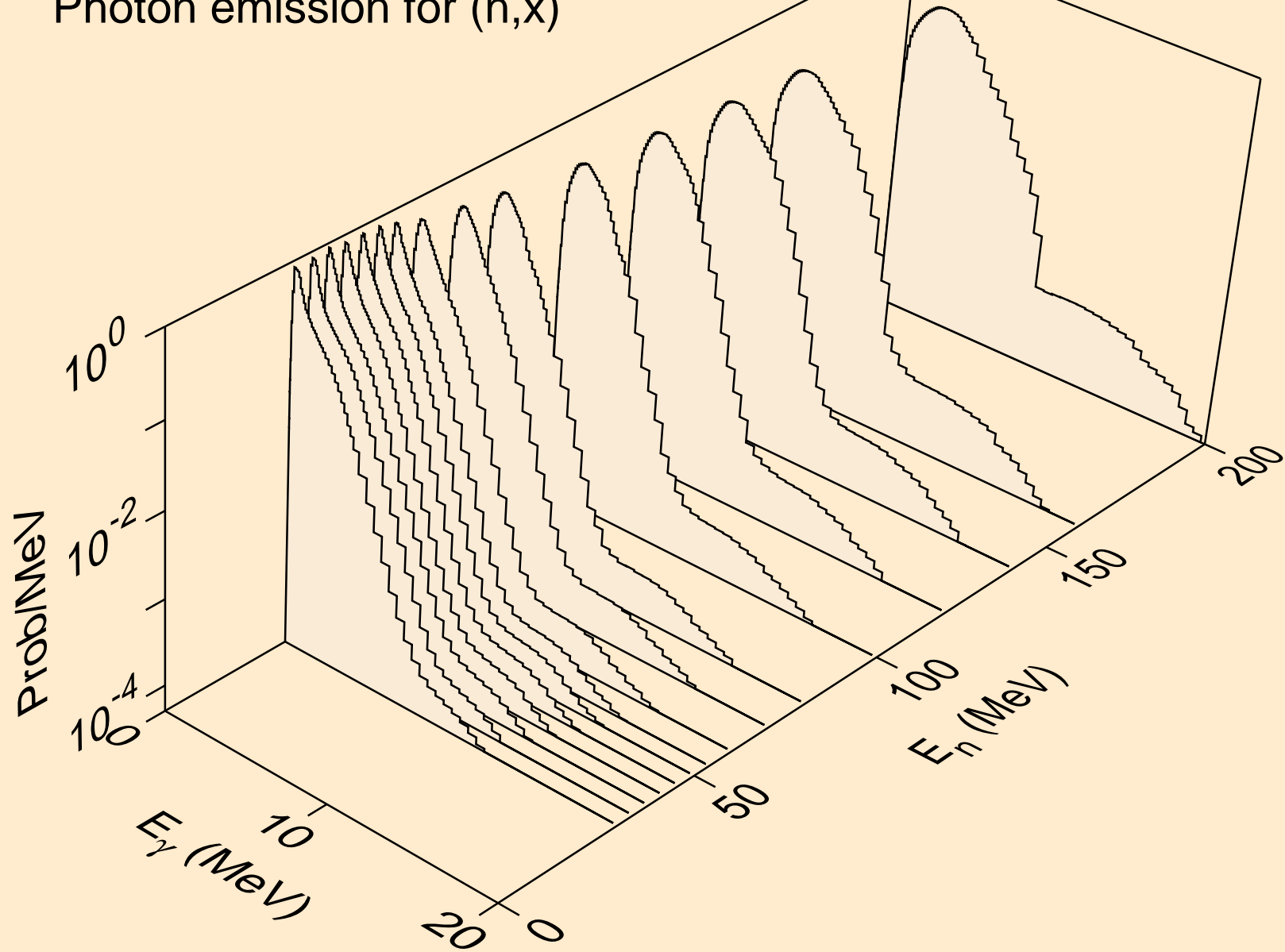
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)

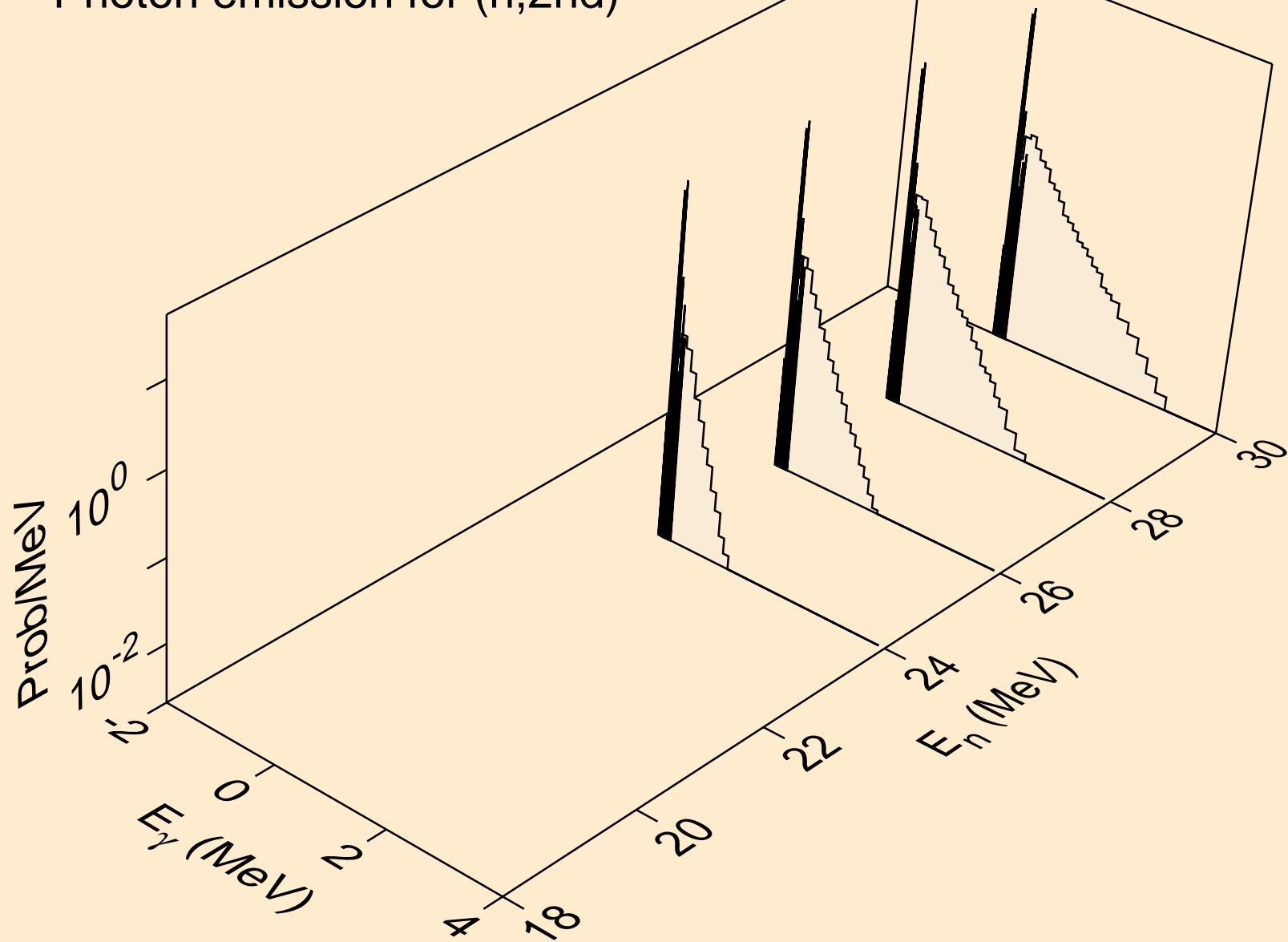


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)

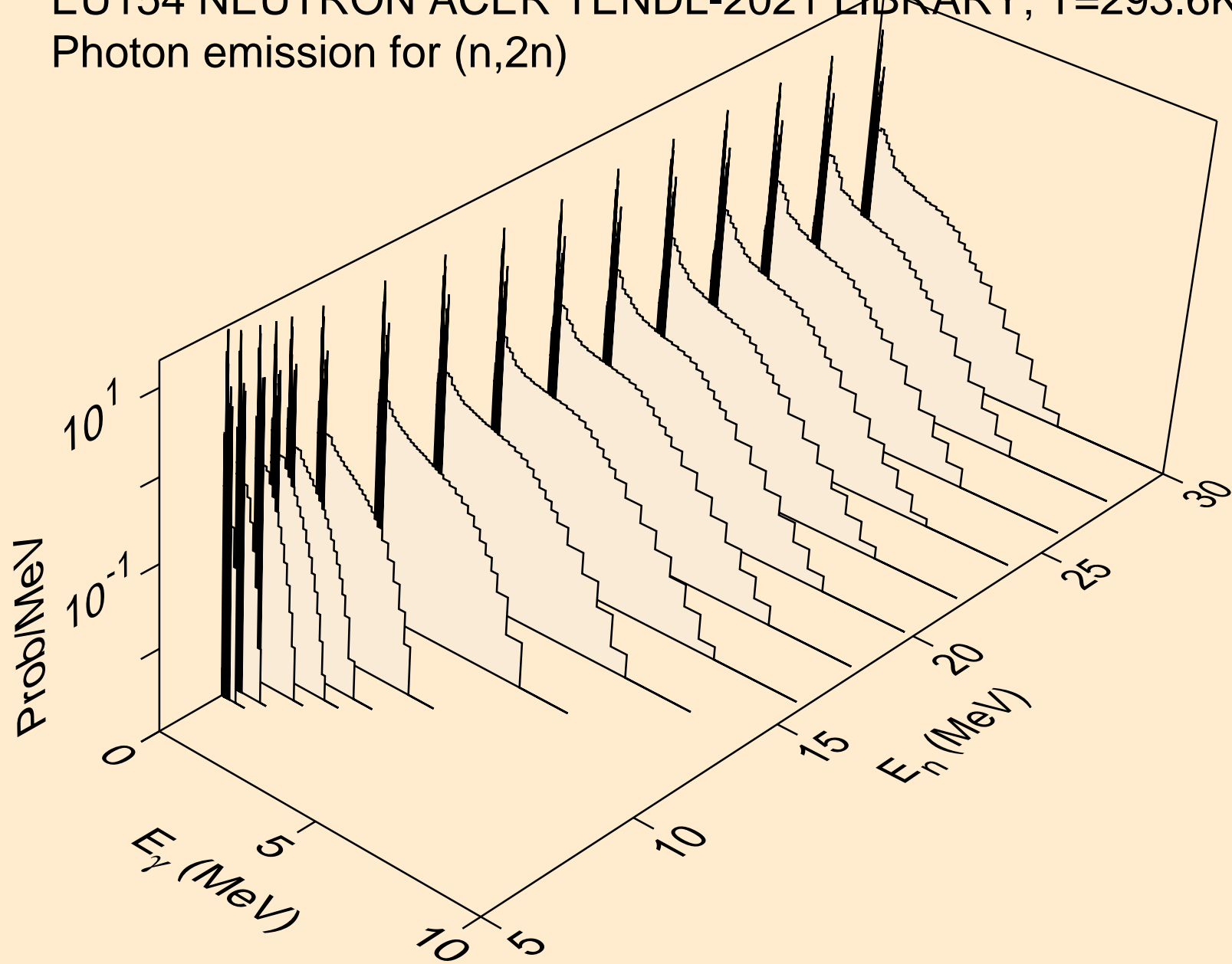




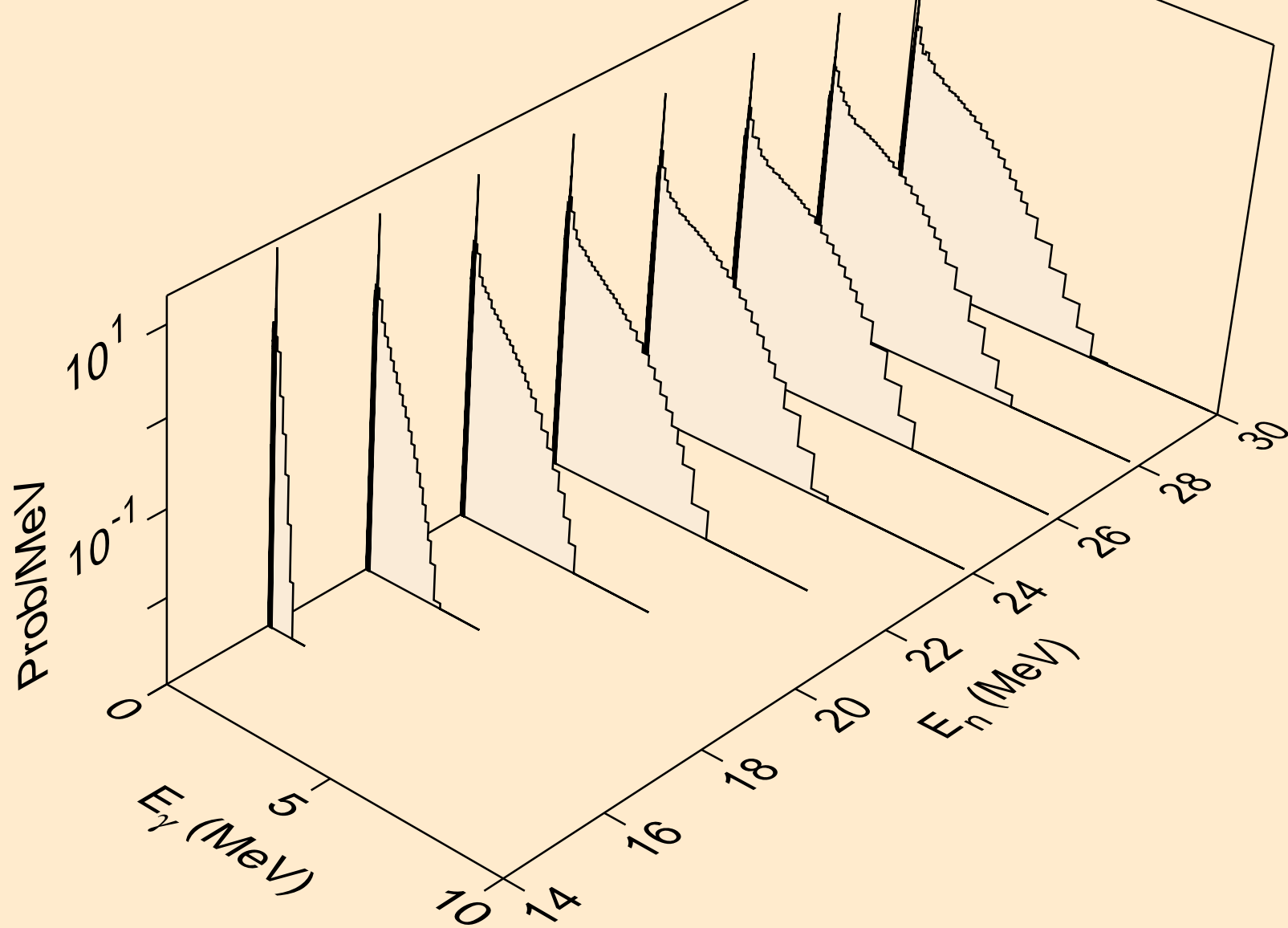
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Photon emission for (n,2nd)



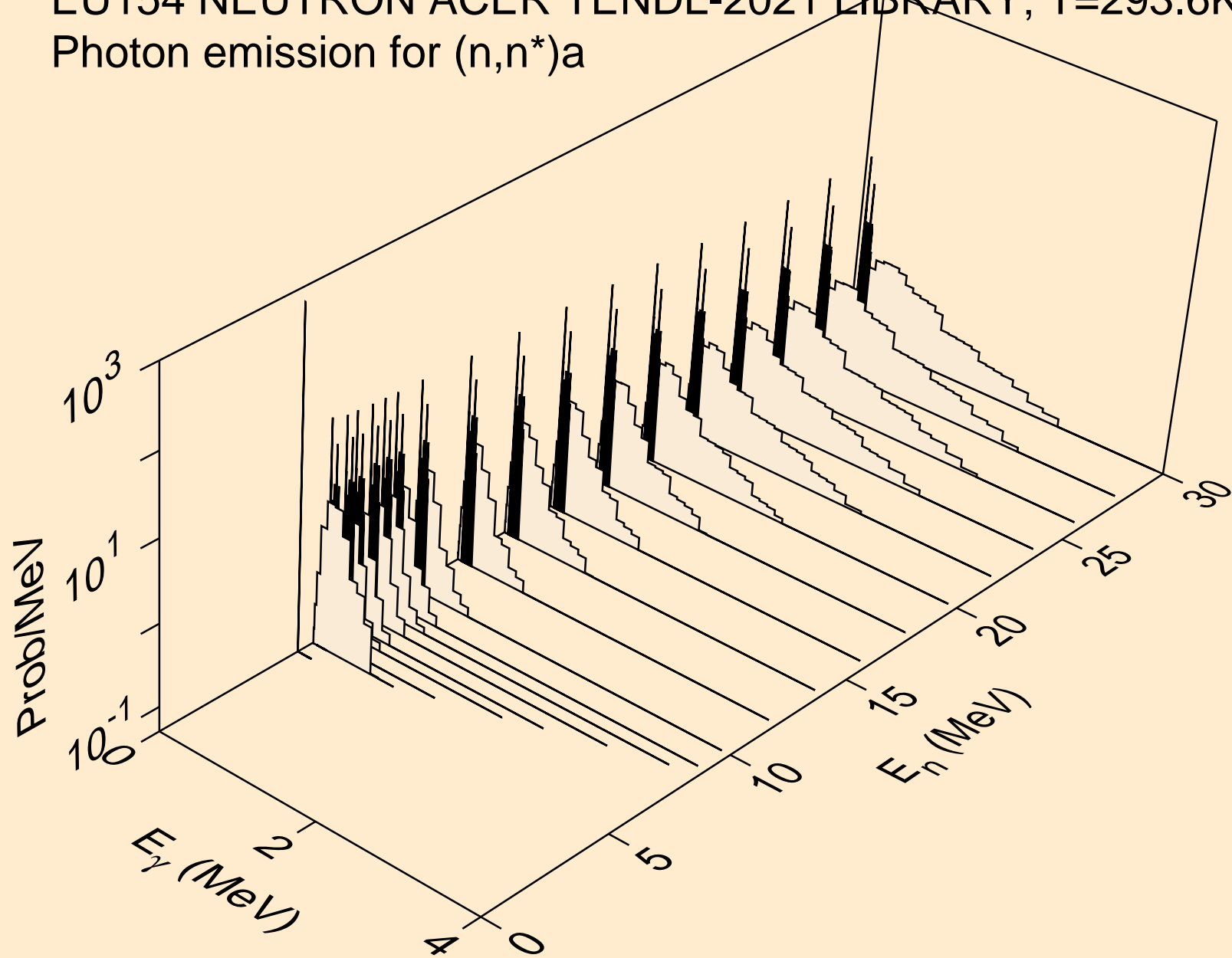
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Photon emission for (n,2n)



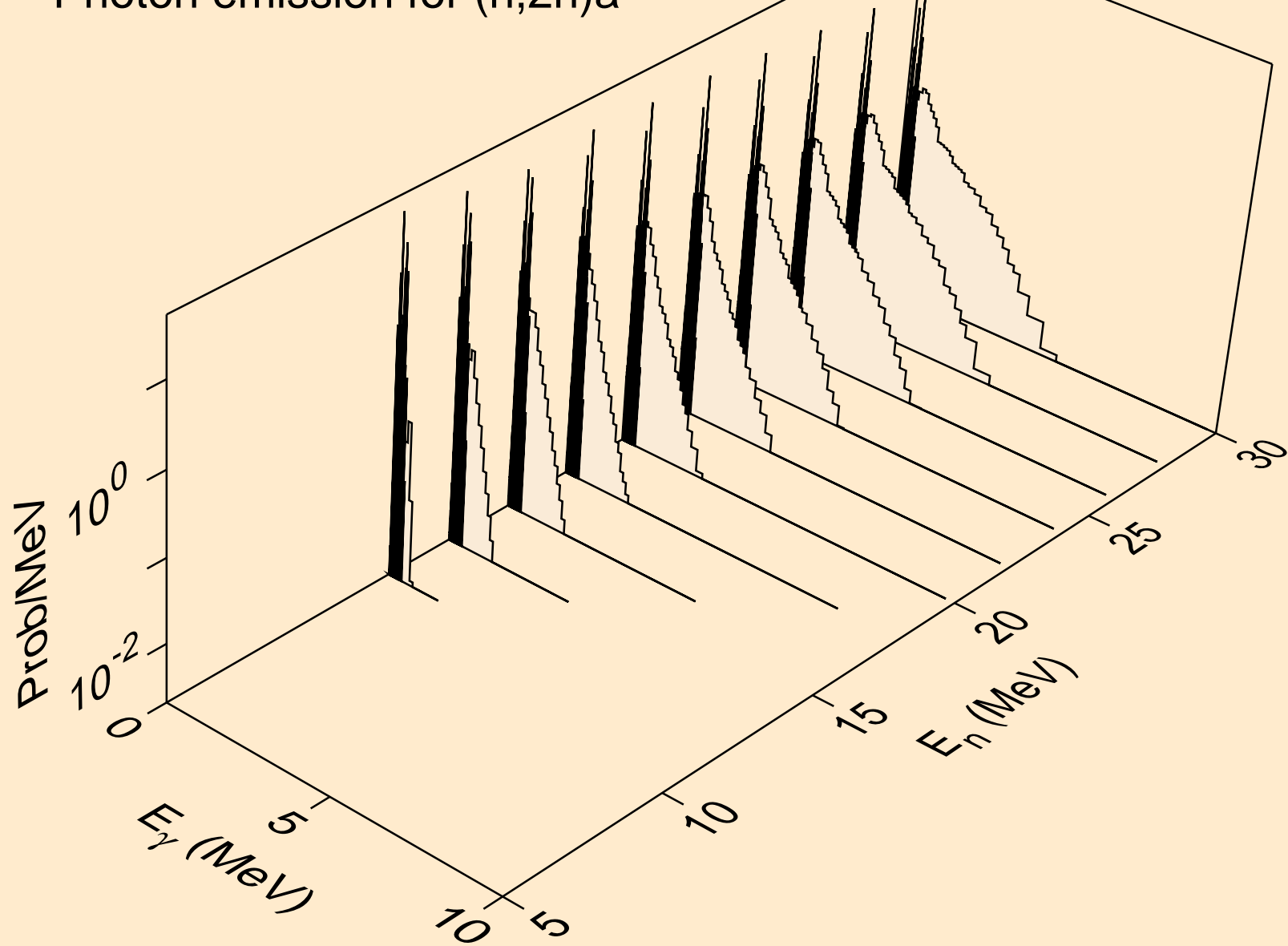
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Photon emission for (n,3n)



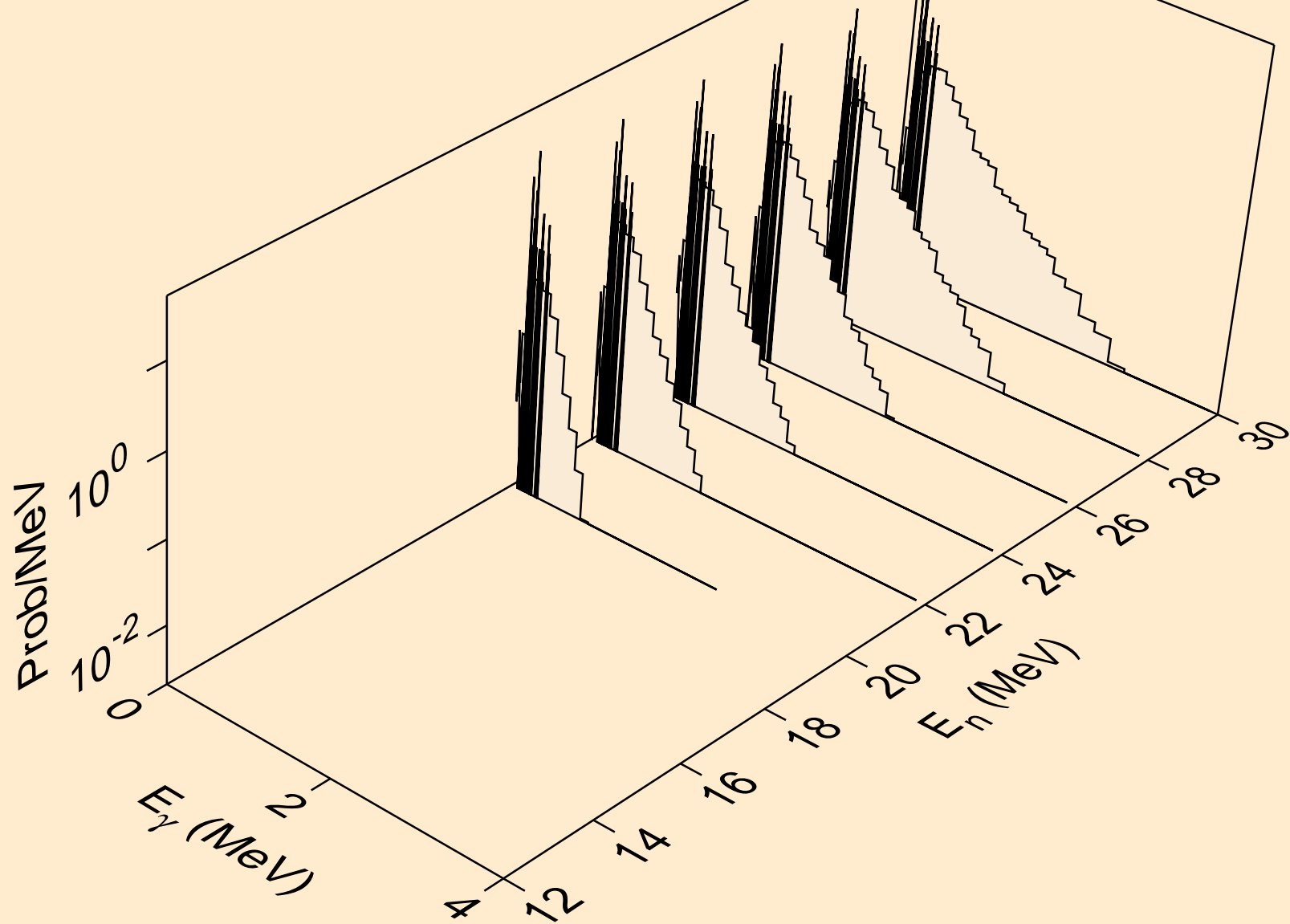
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Photon emission for (n,n\*)a



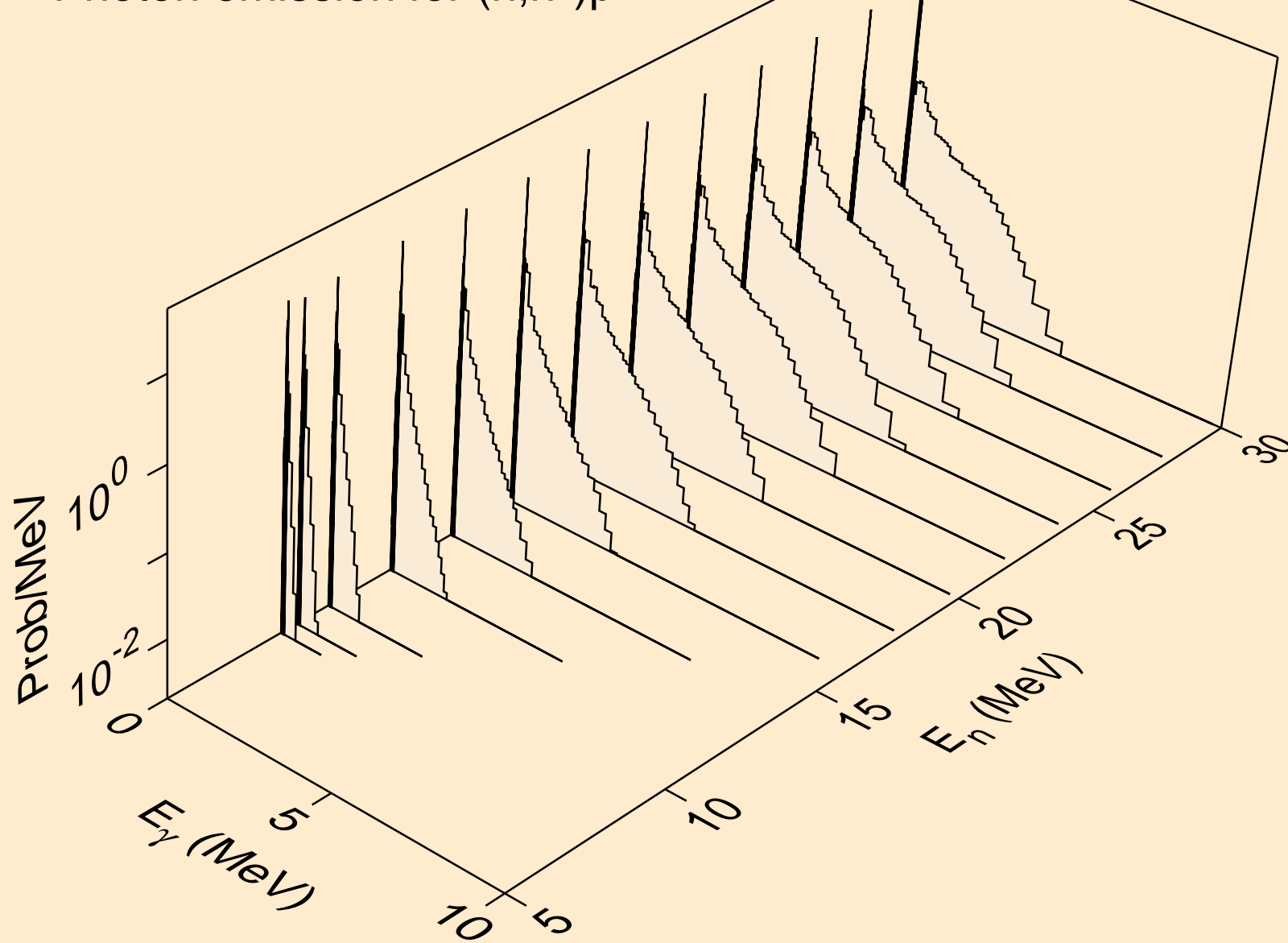
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Photon emission for (n,2n)a



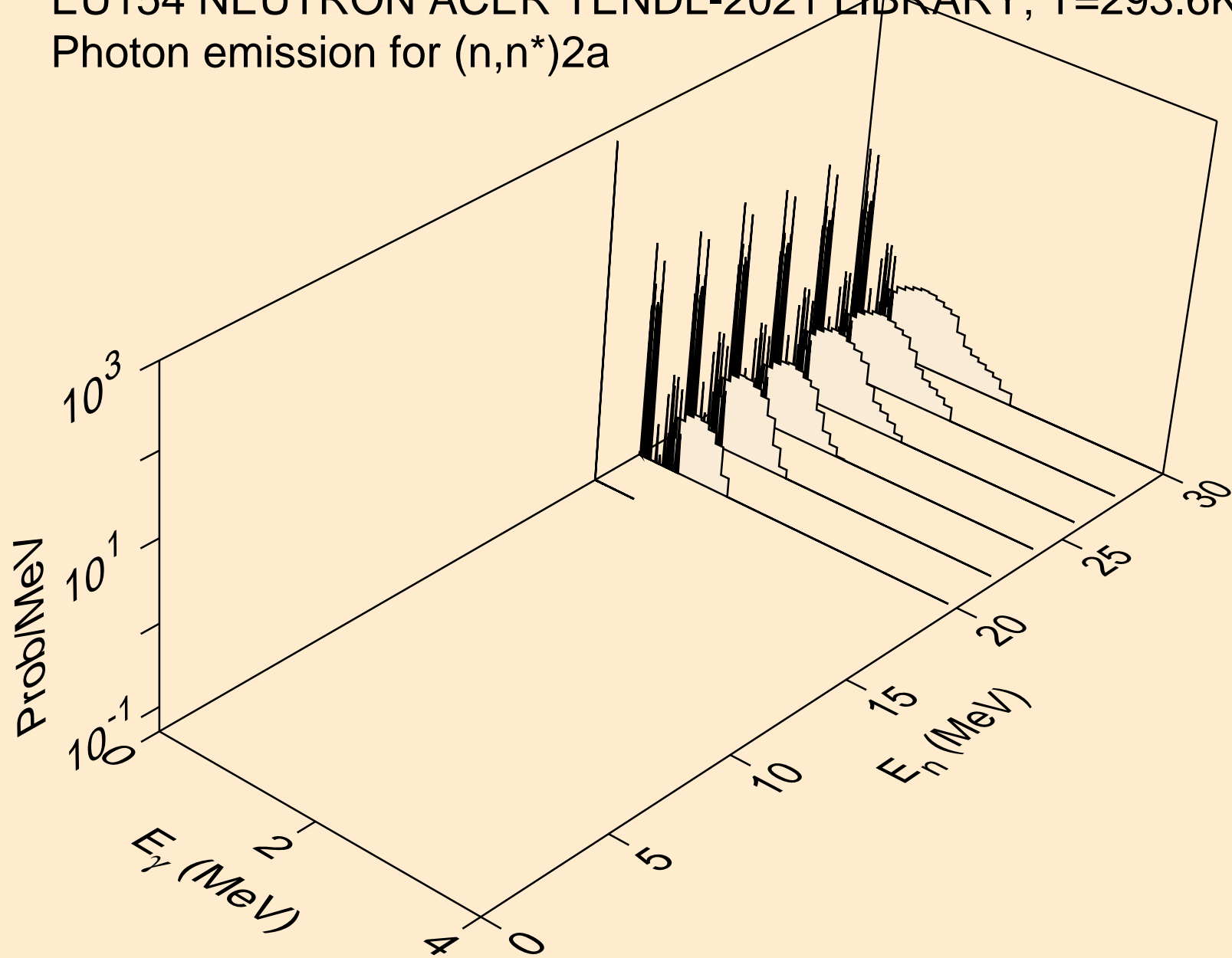
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Photon emission for (n,3n)a



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p

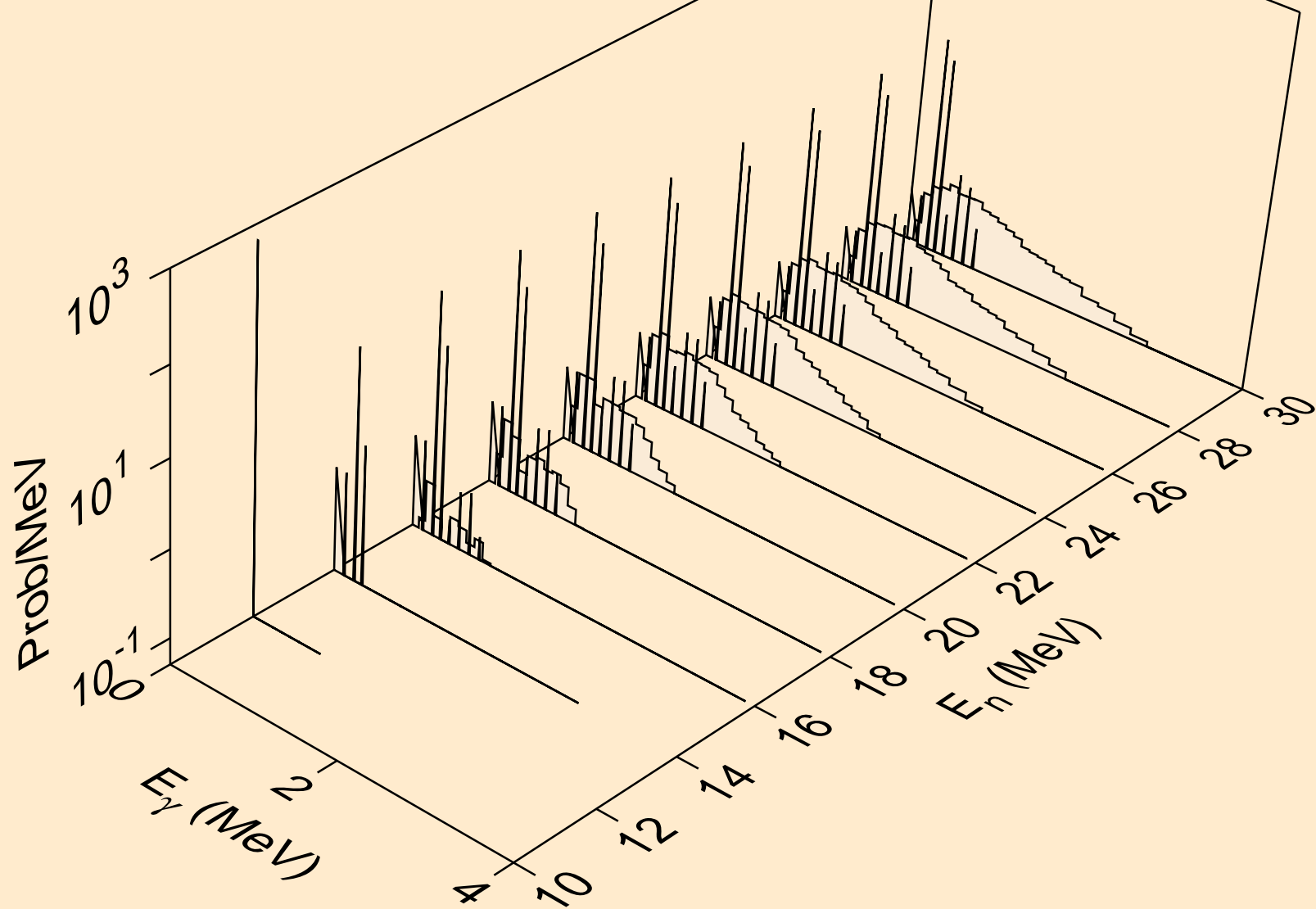


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Photon emission for (n,n\*)2a

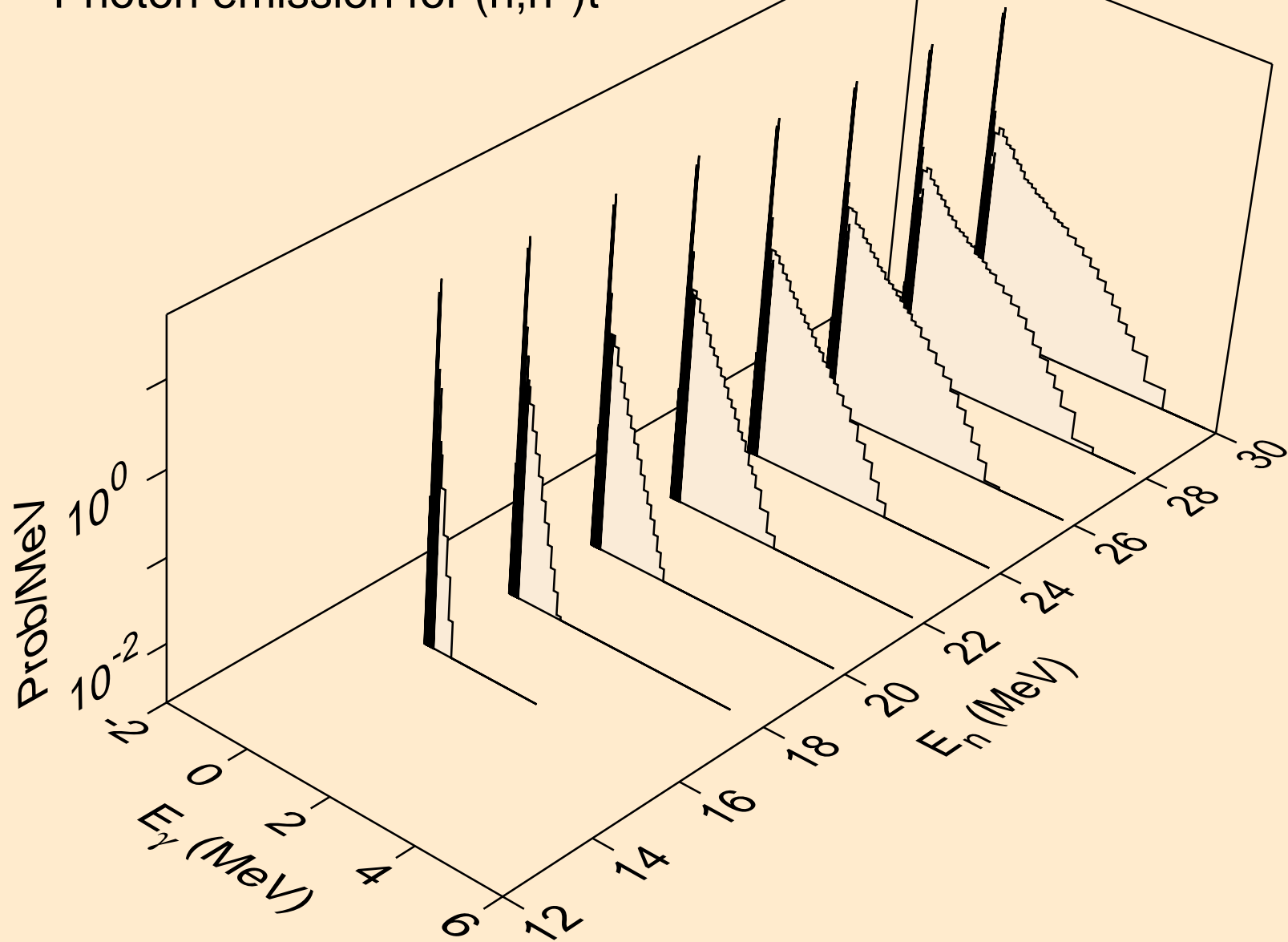




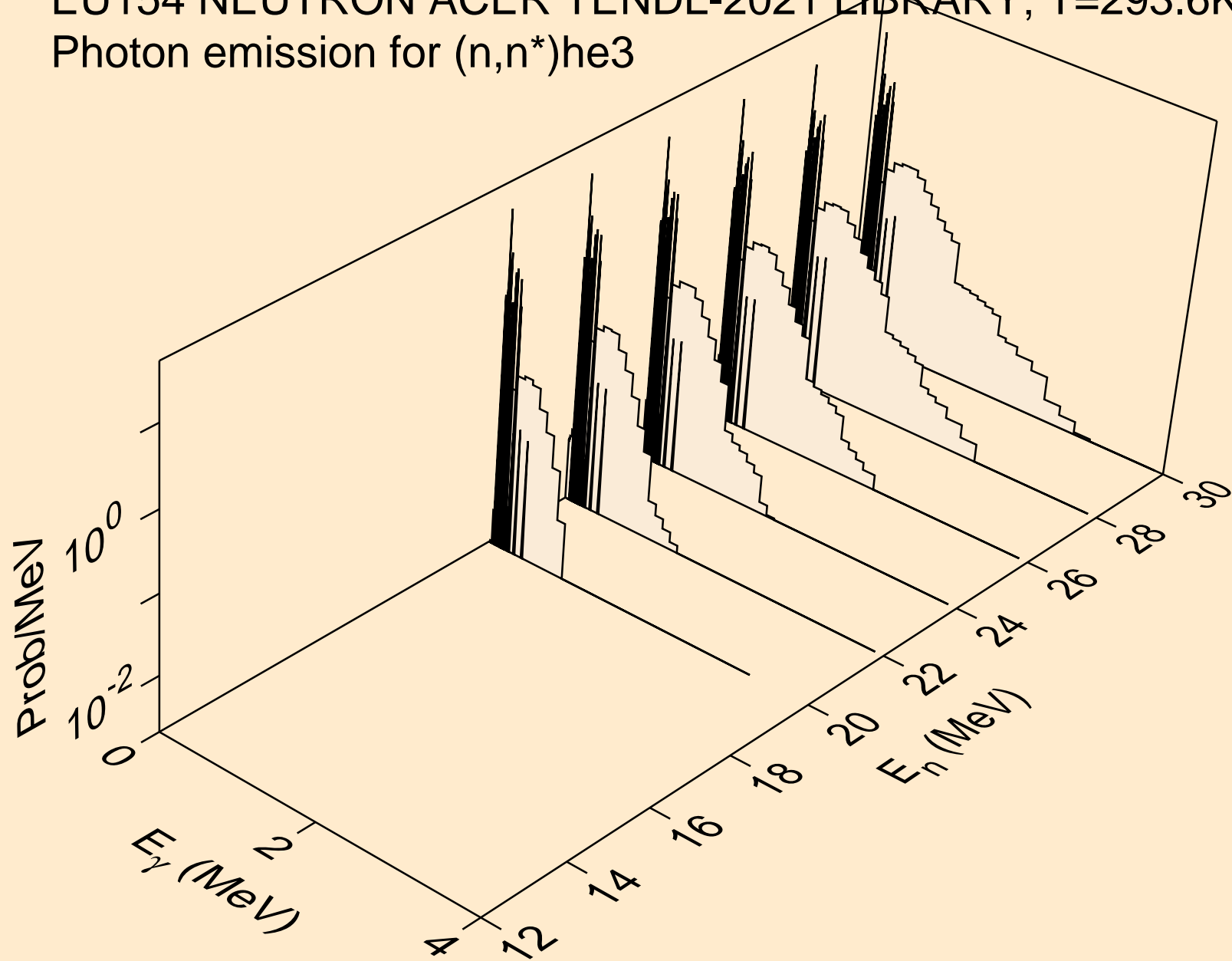
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Photon emission for (n,n\*)d



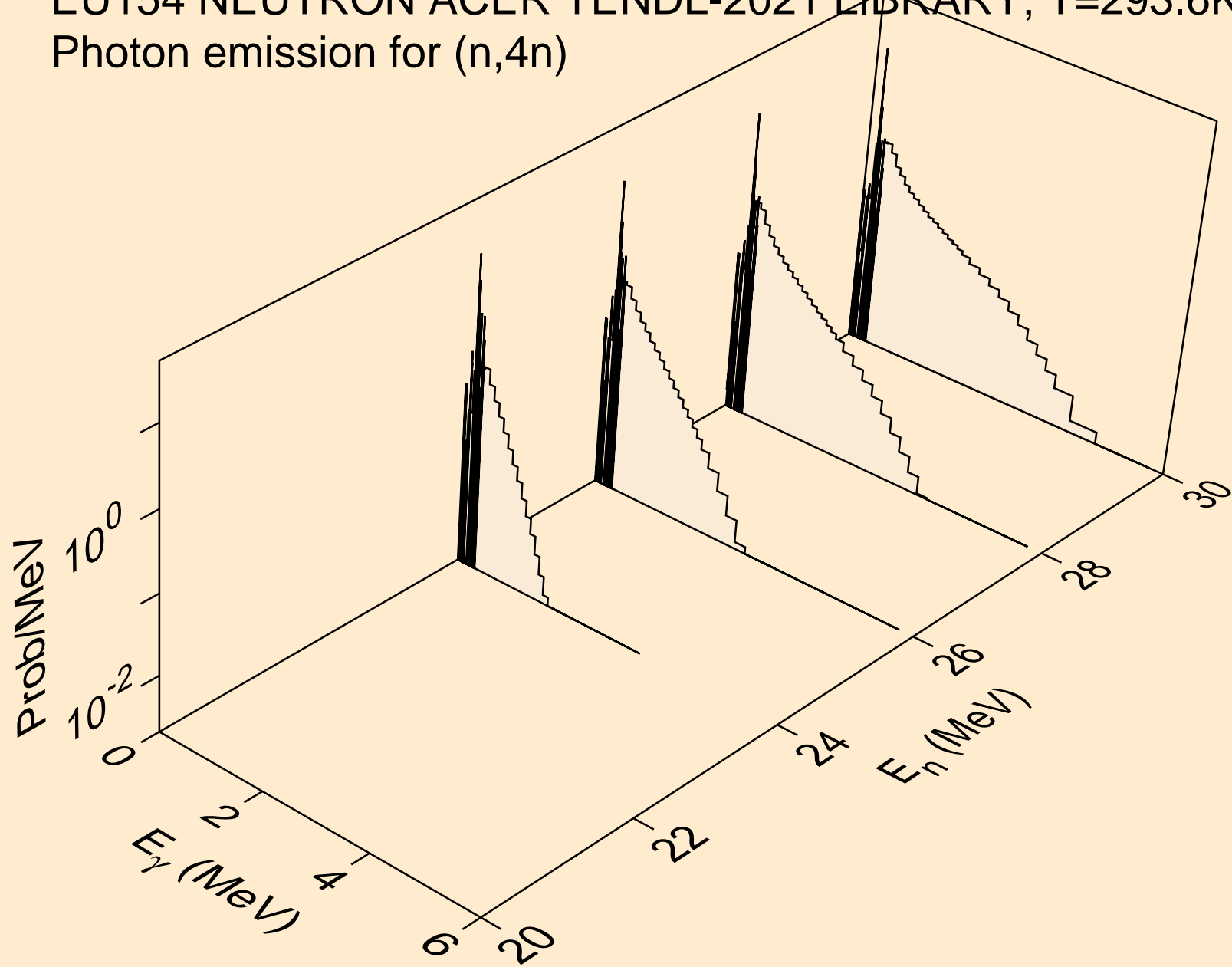
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Photon emission for (n,n\*)t



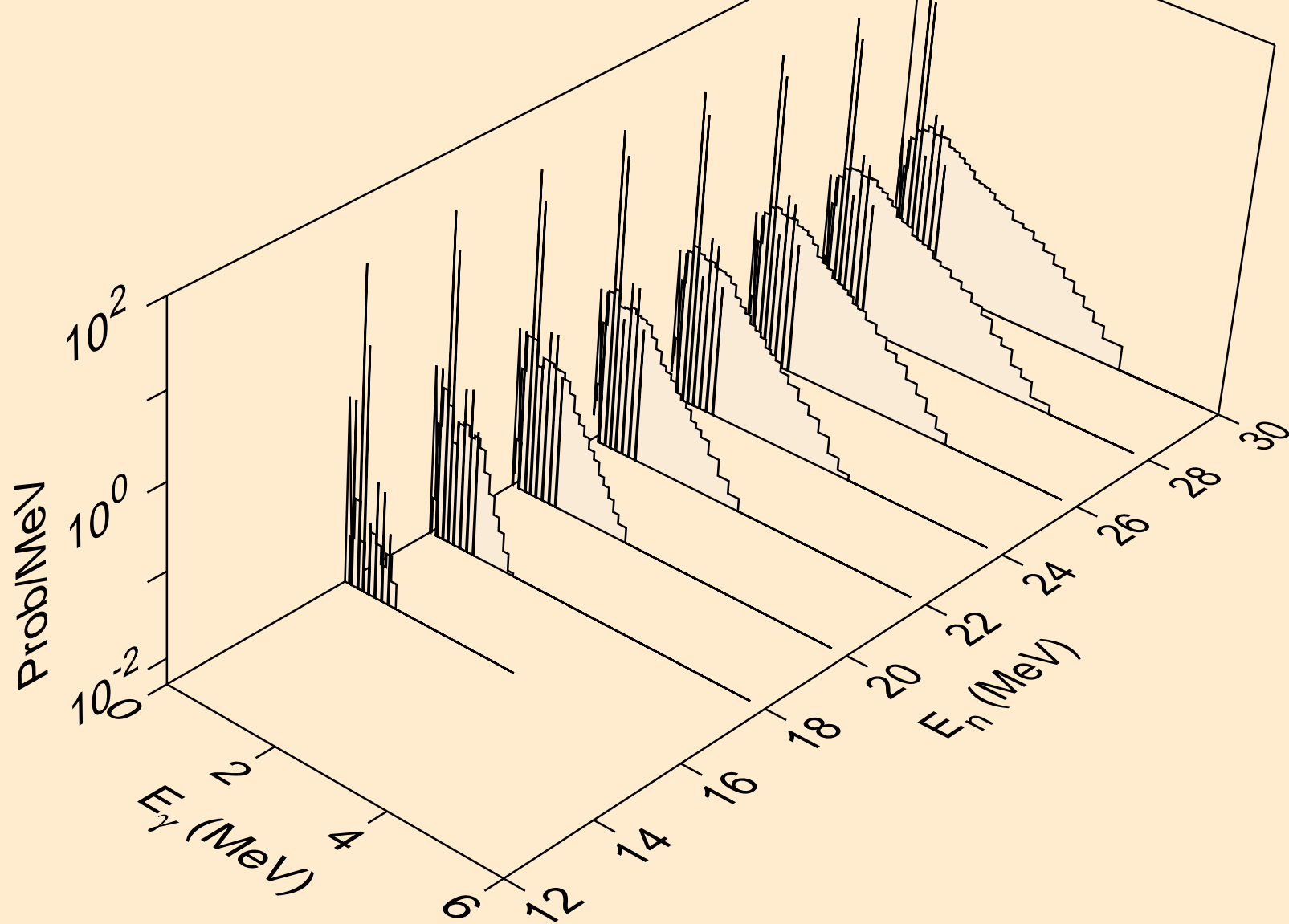
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Photon emission for (n,n\*)he3



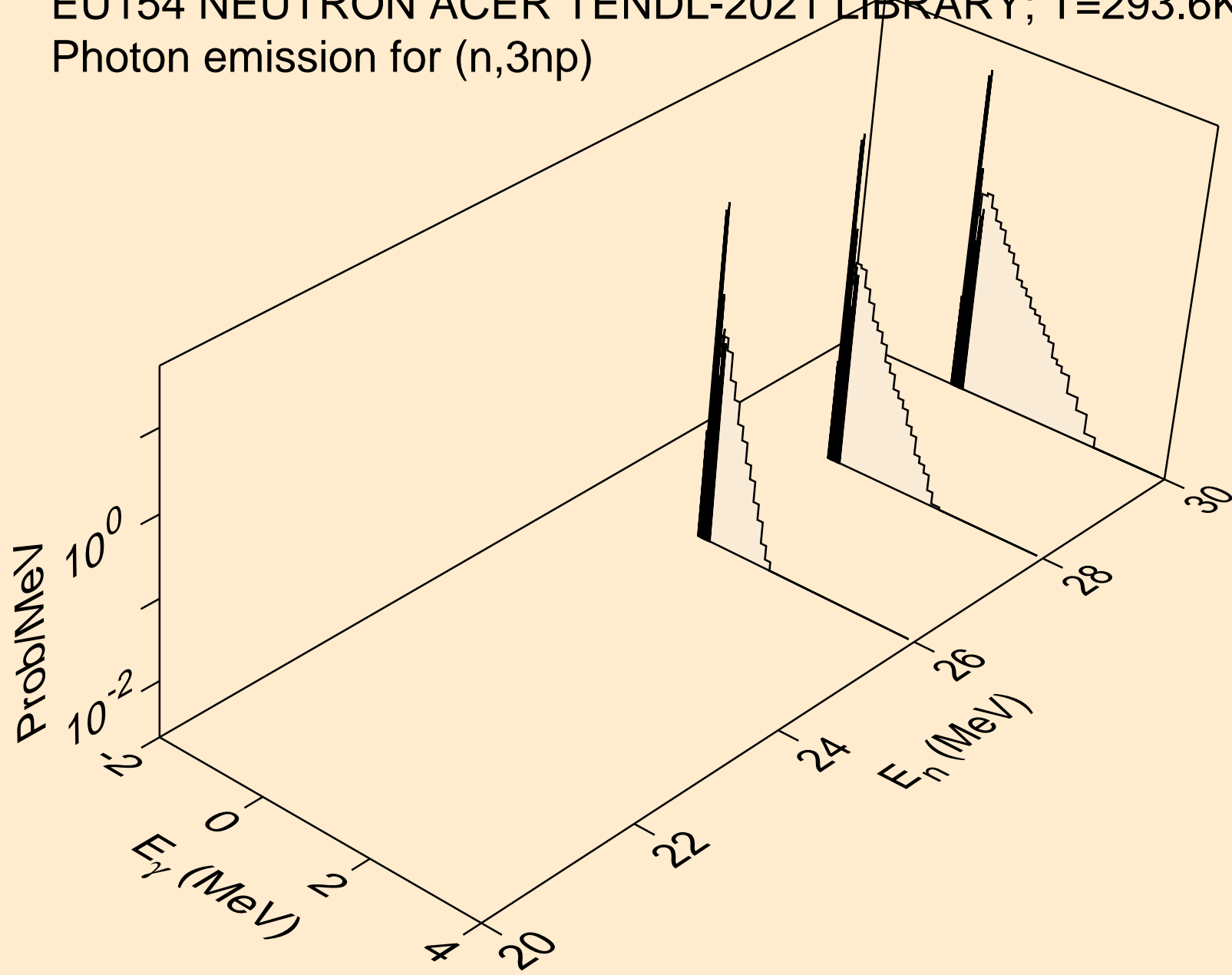
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Photon emission for (n,4n)



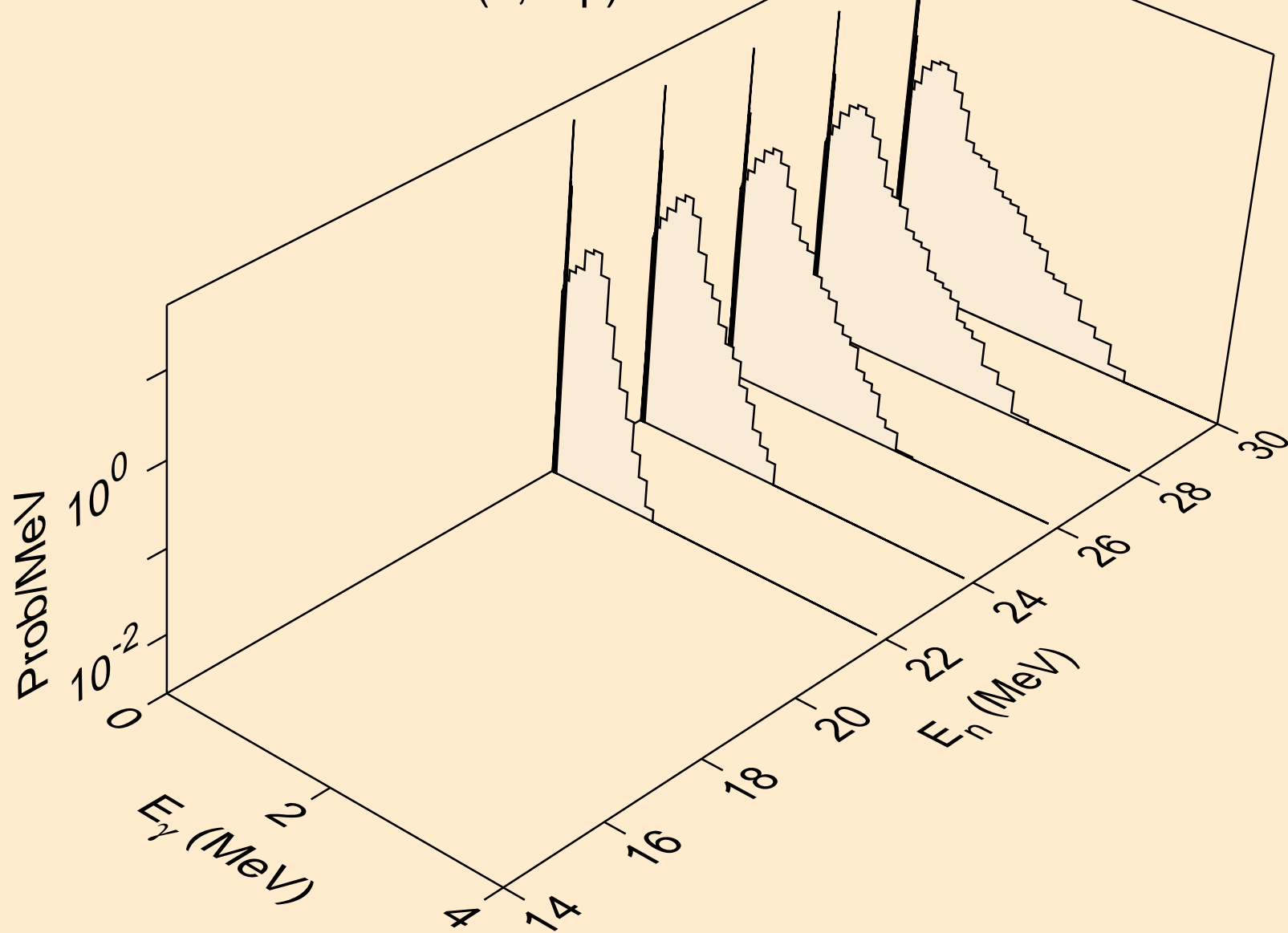
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Photon emission for (n,2np)



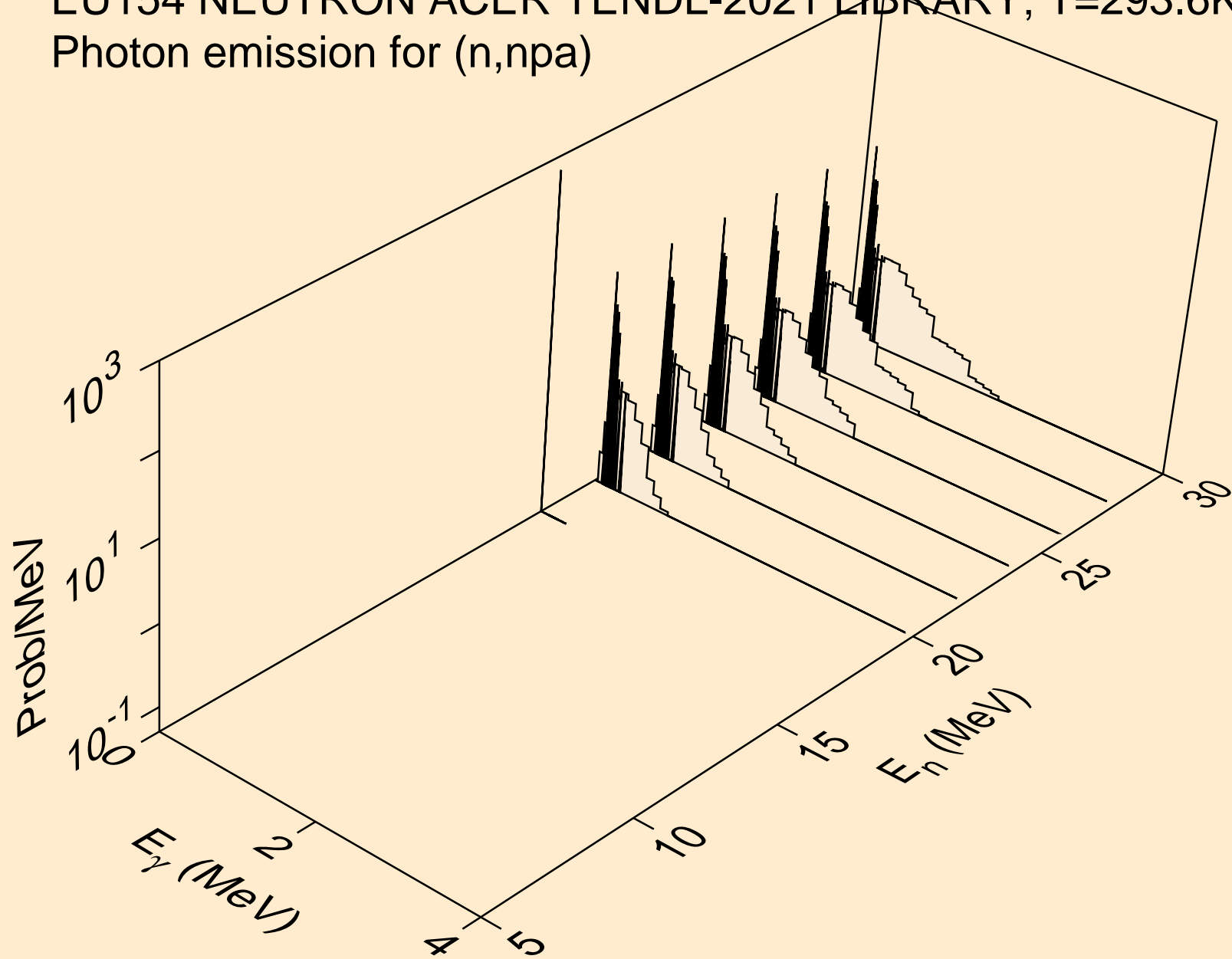
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Photon emission for (n,3np)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)

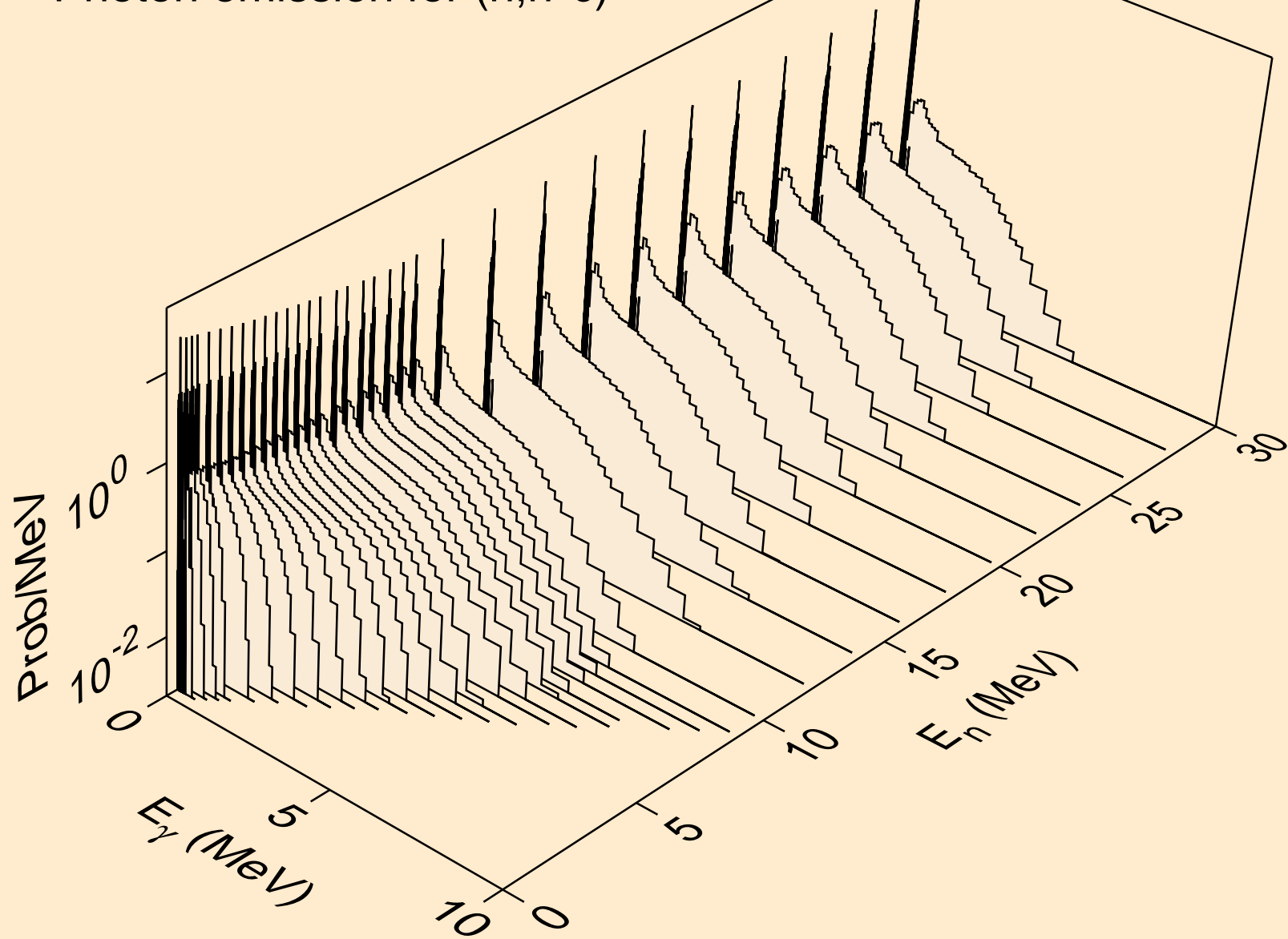


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Photon emission for (n,npa)

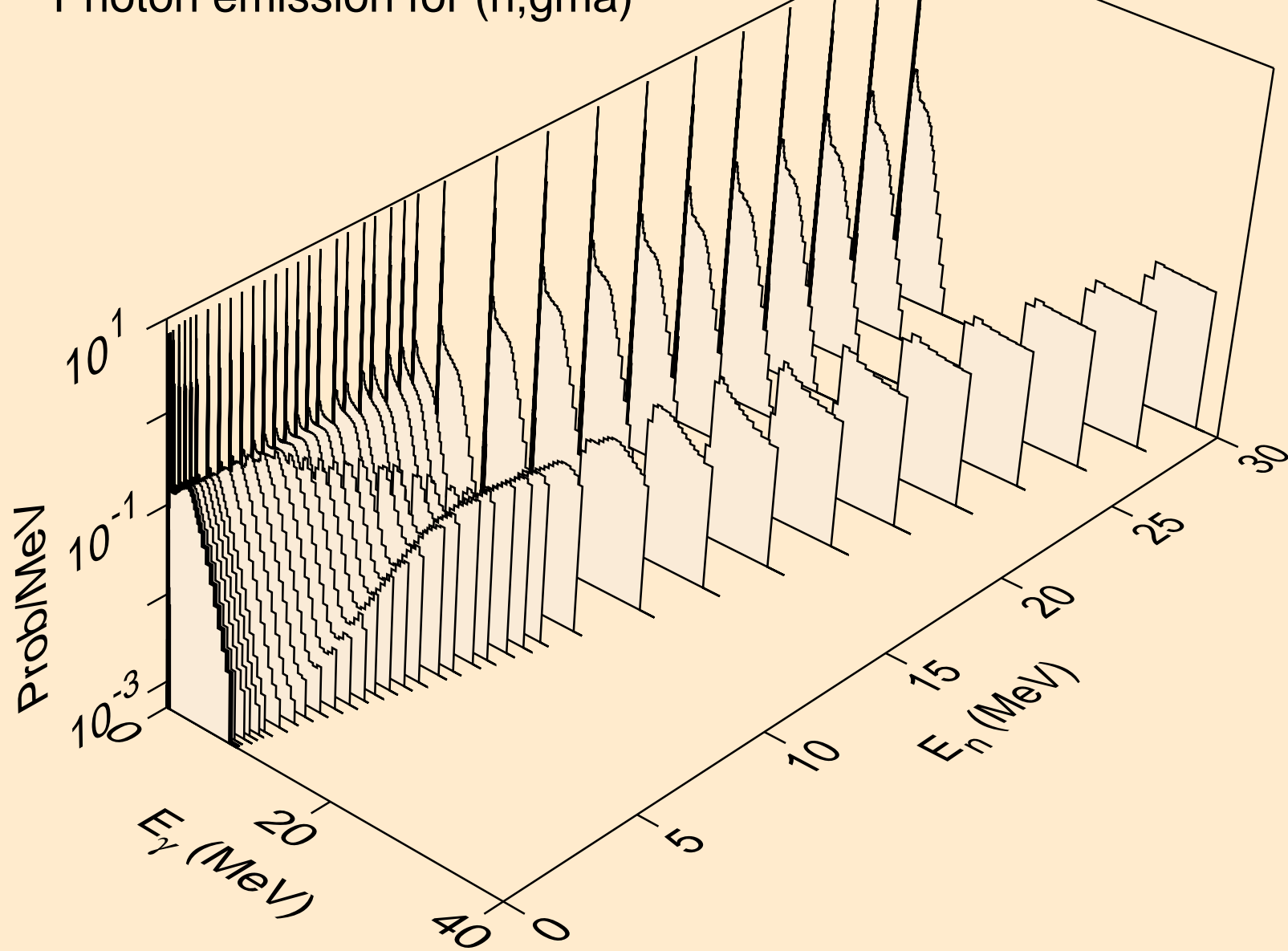




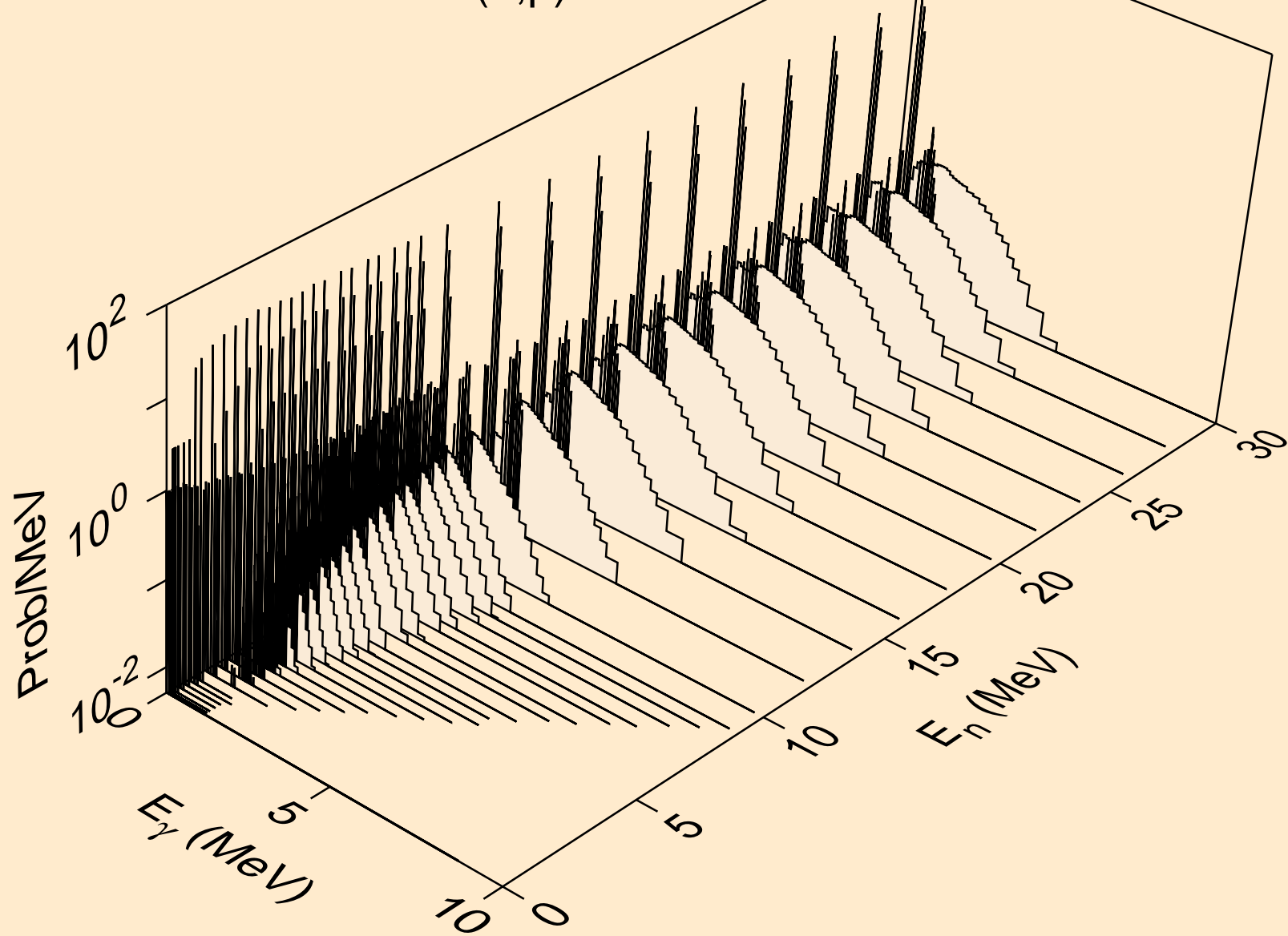
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Photon emission for (n,n\*c)



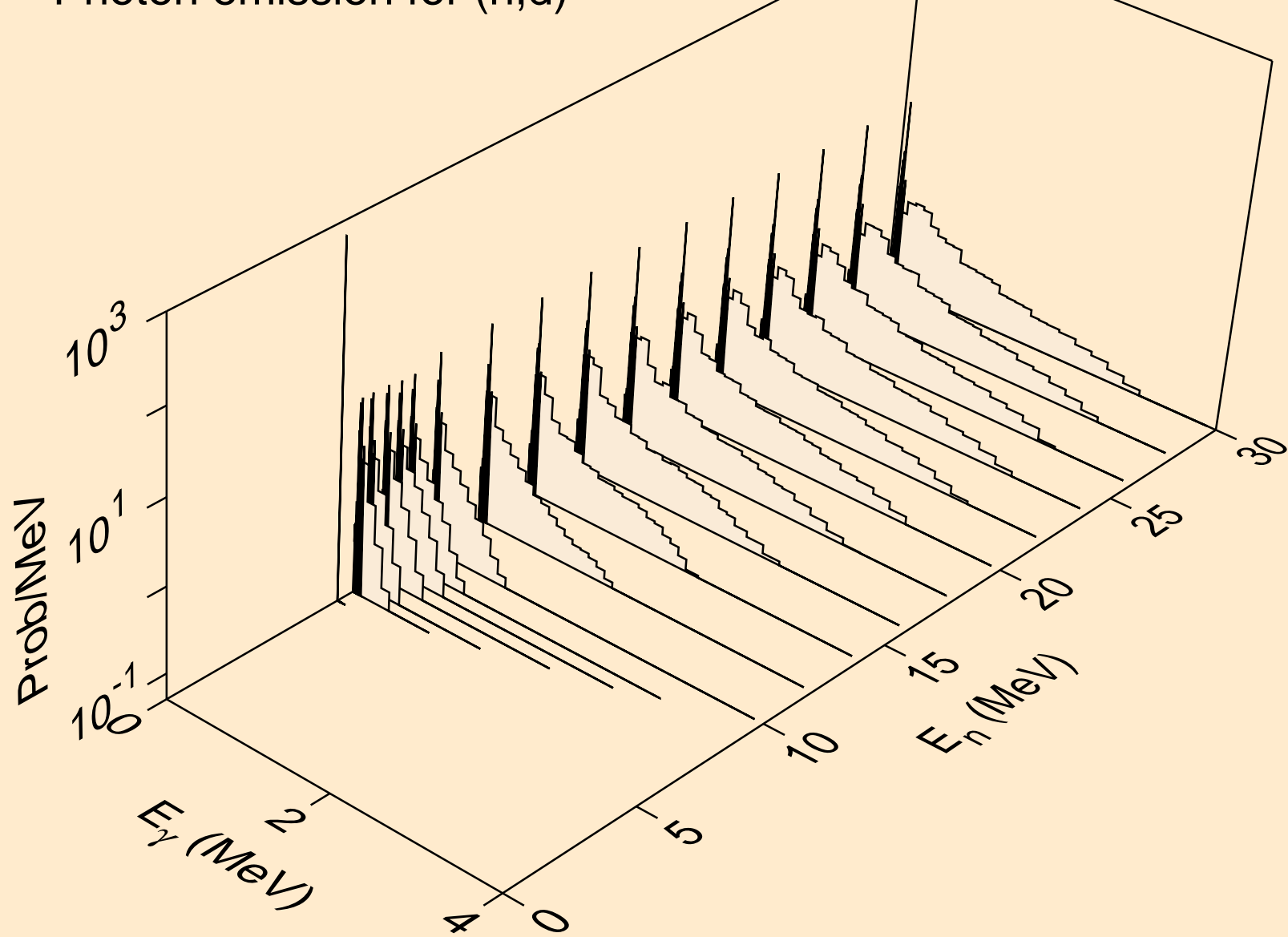
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Photon emission for (n,gma)



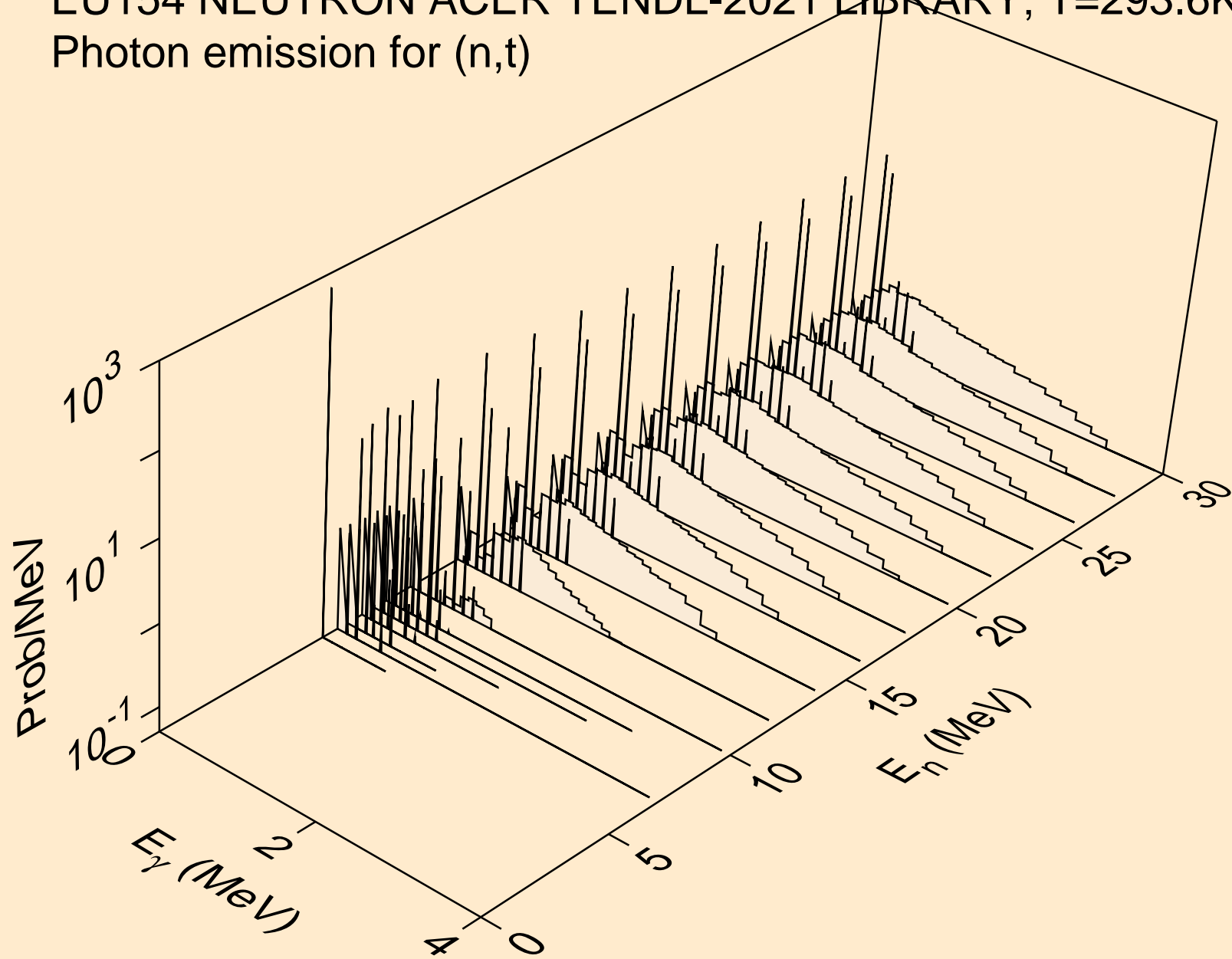
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Photon emission for (n,p)



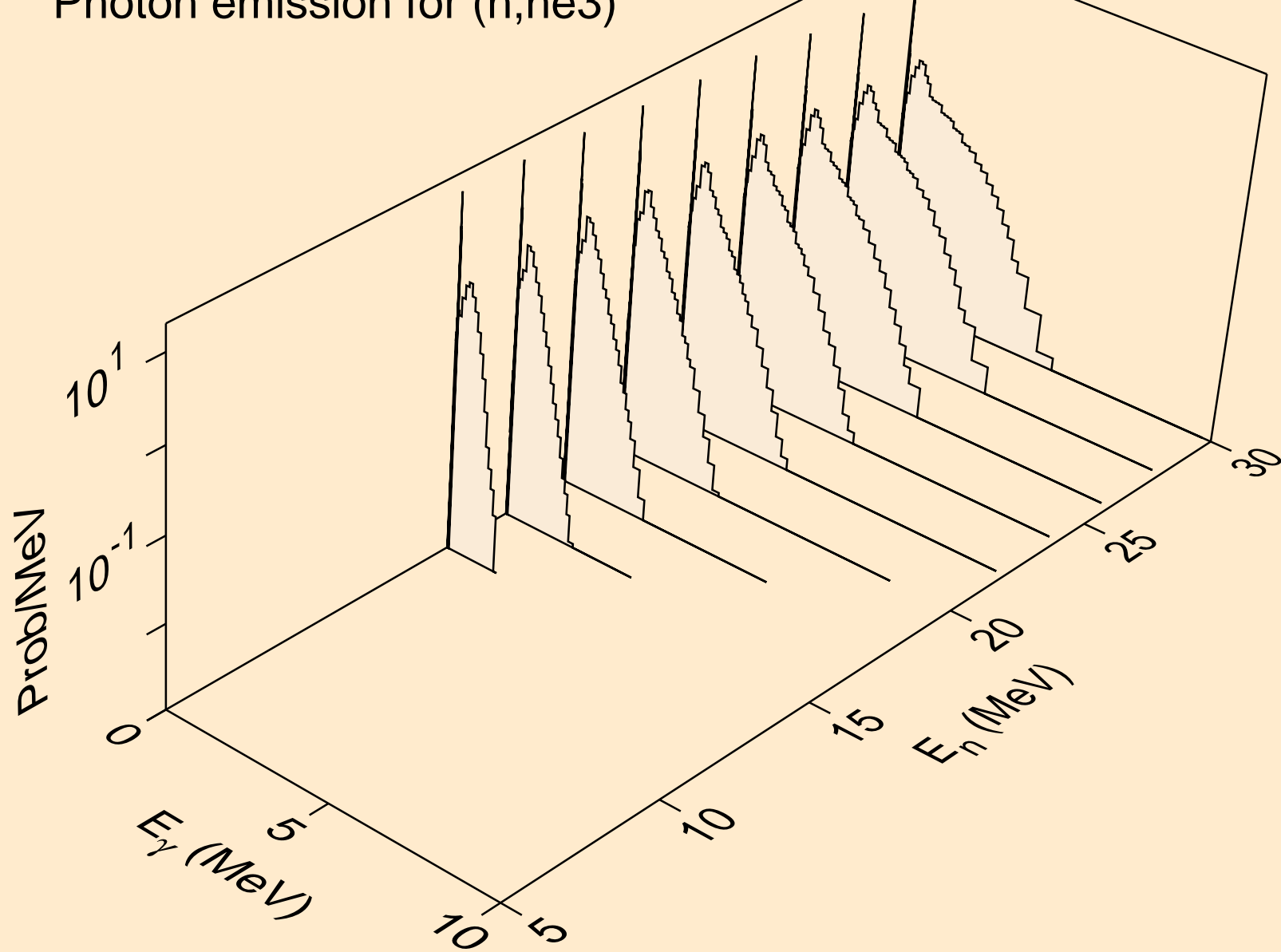
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Photon emission for (n,d)



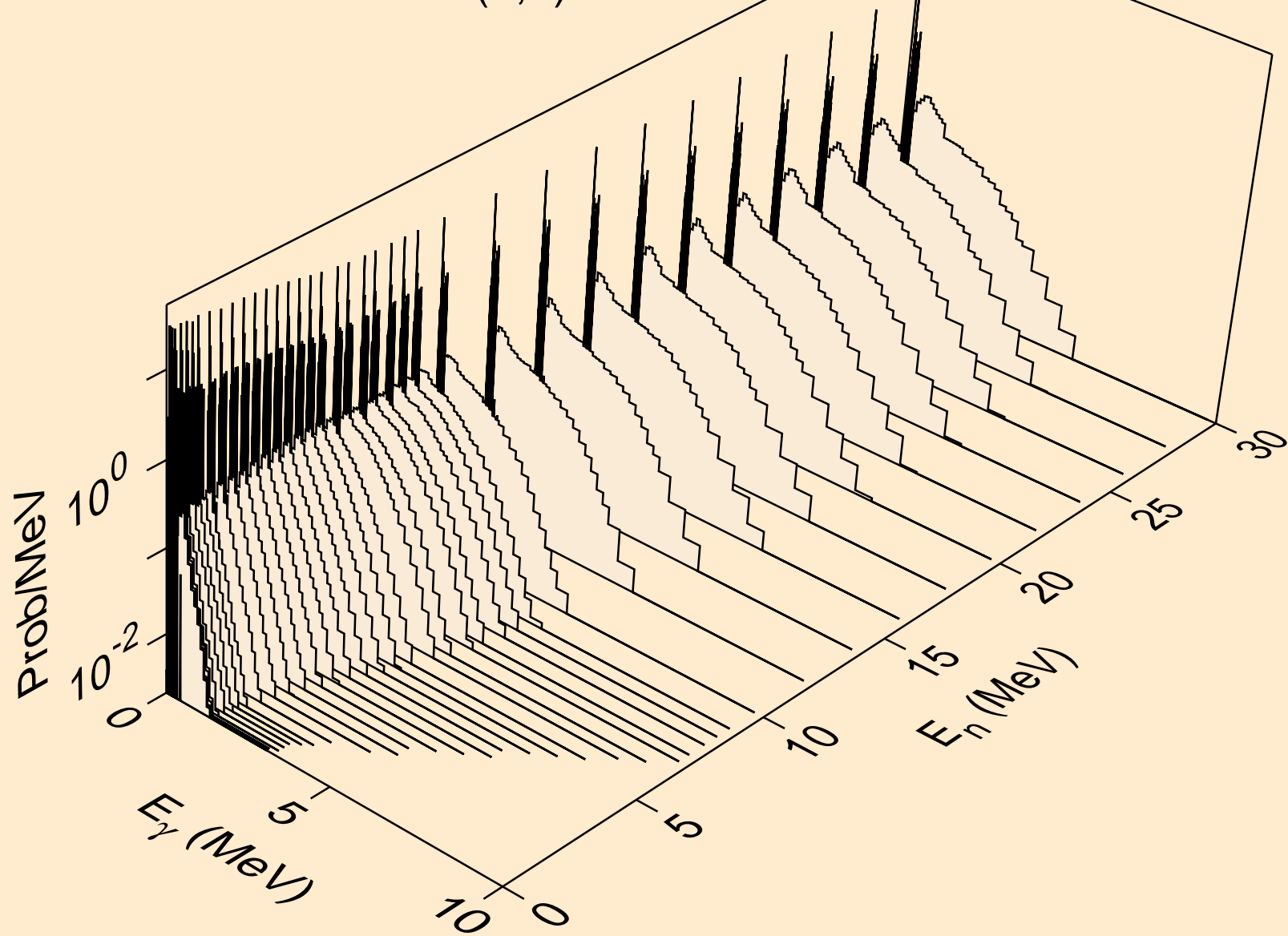
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Photon emission for (n,t)



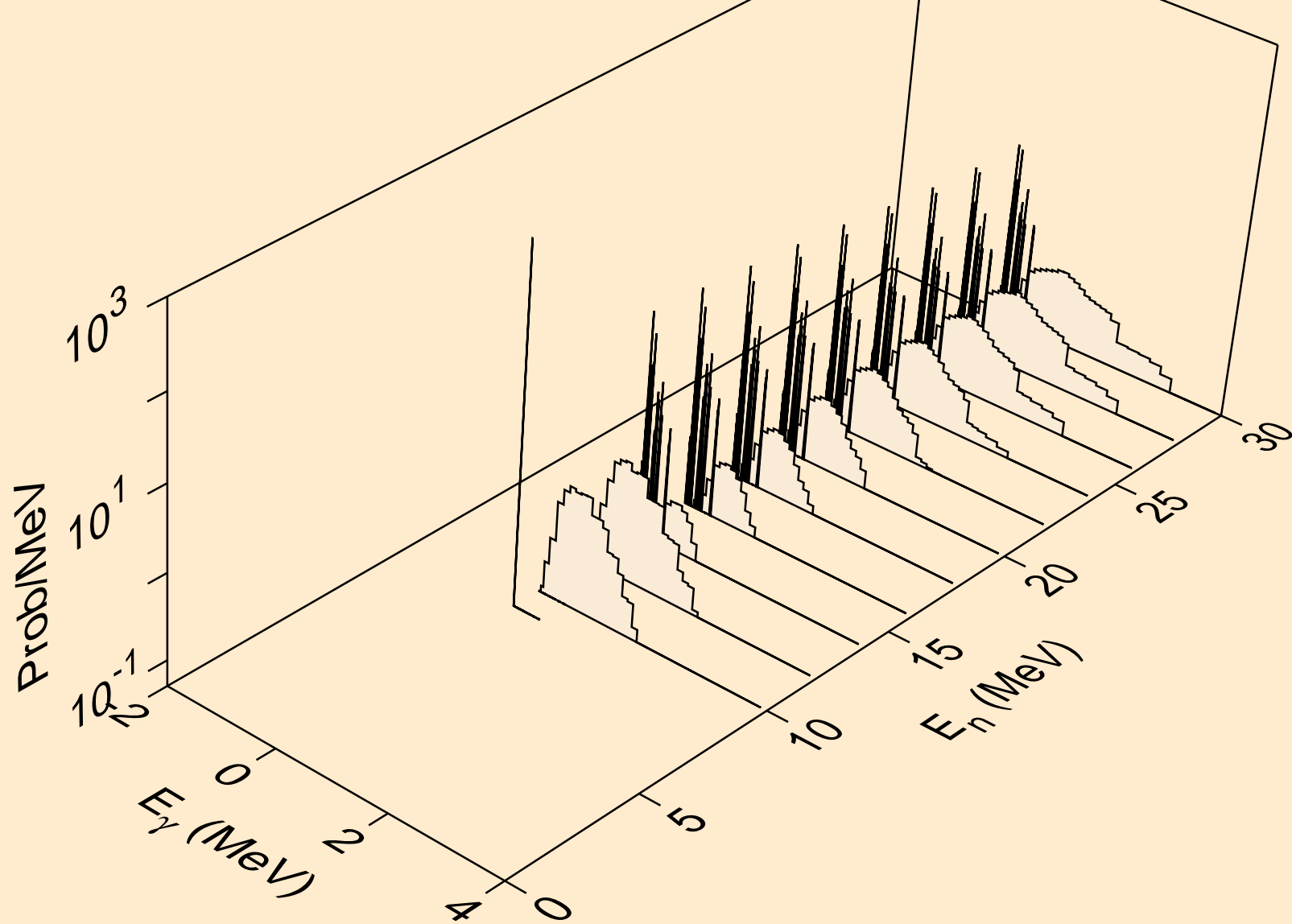
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)

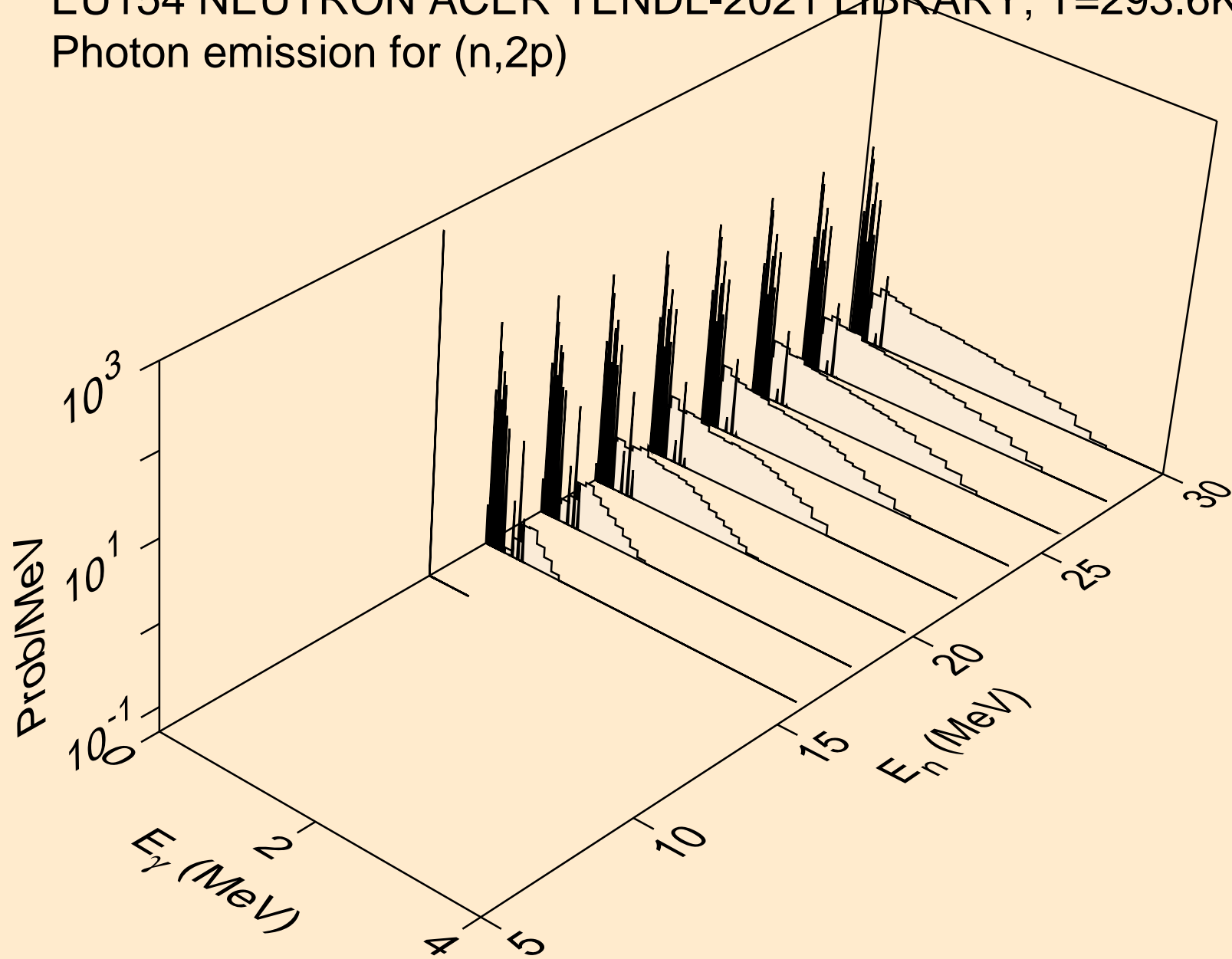


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Photon emission for (n,2a)

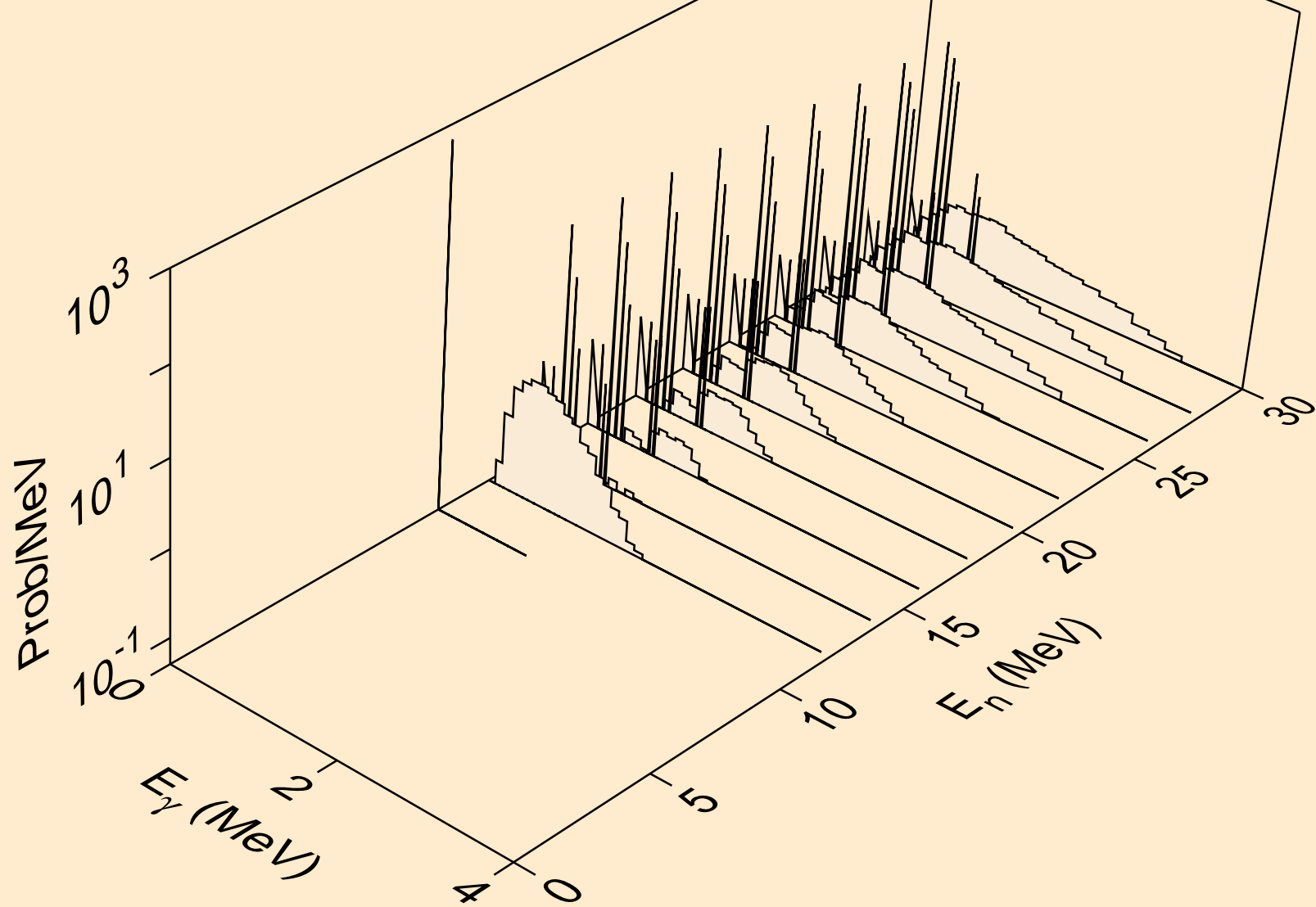




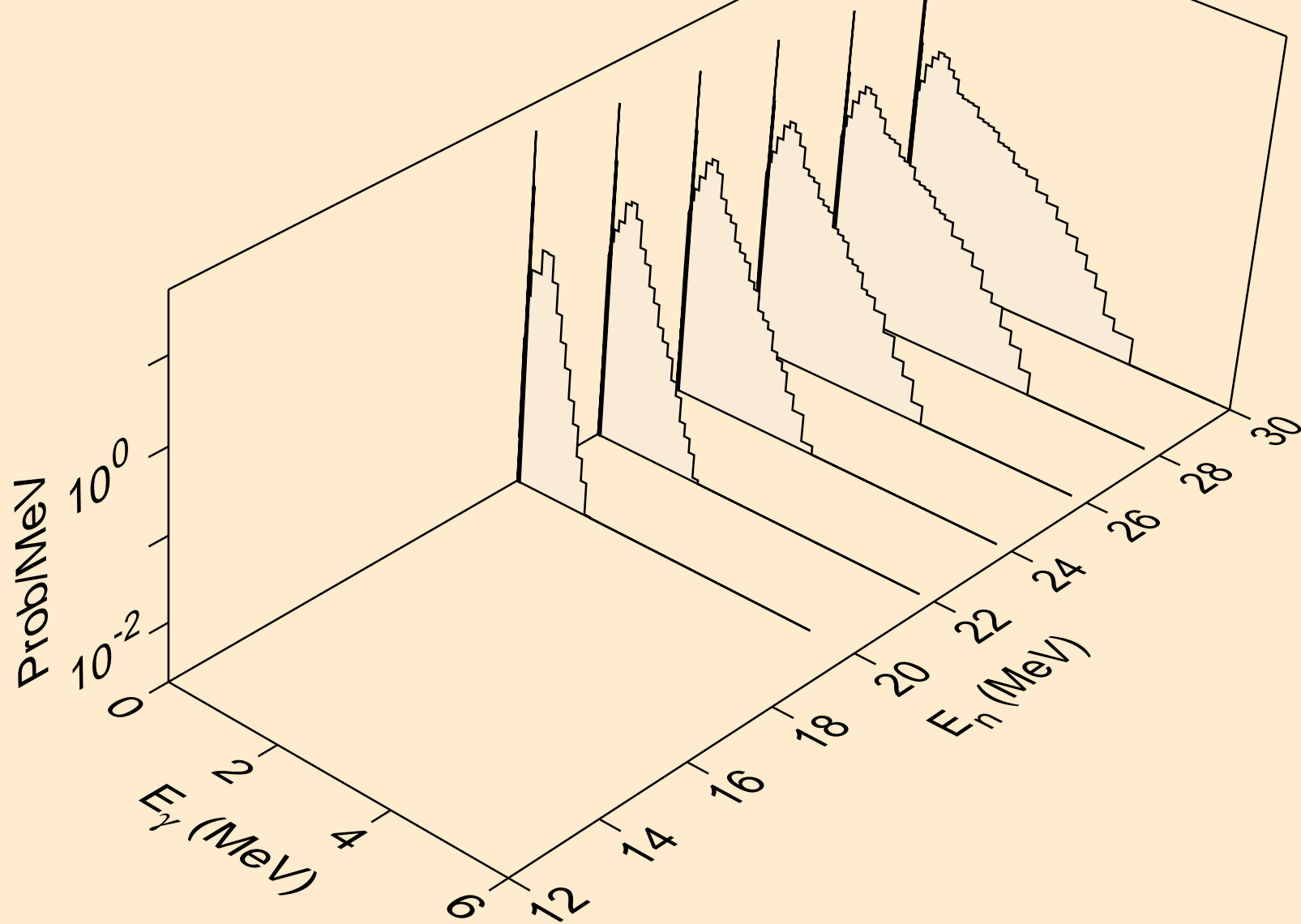
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Photon emission for (n,2p)



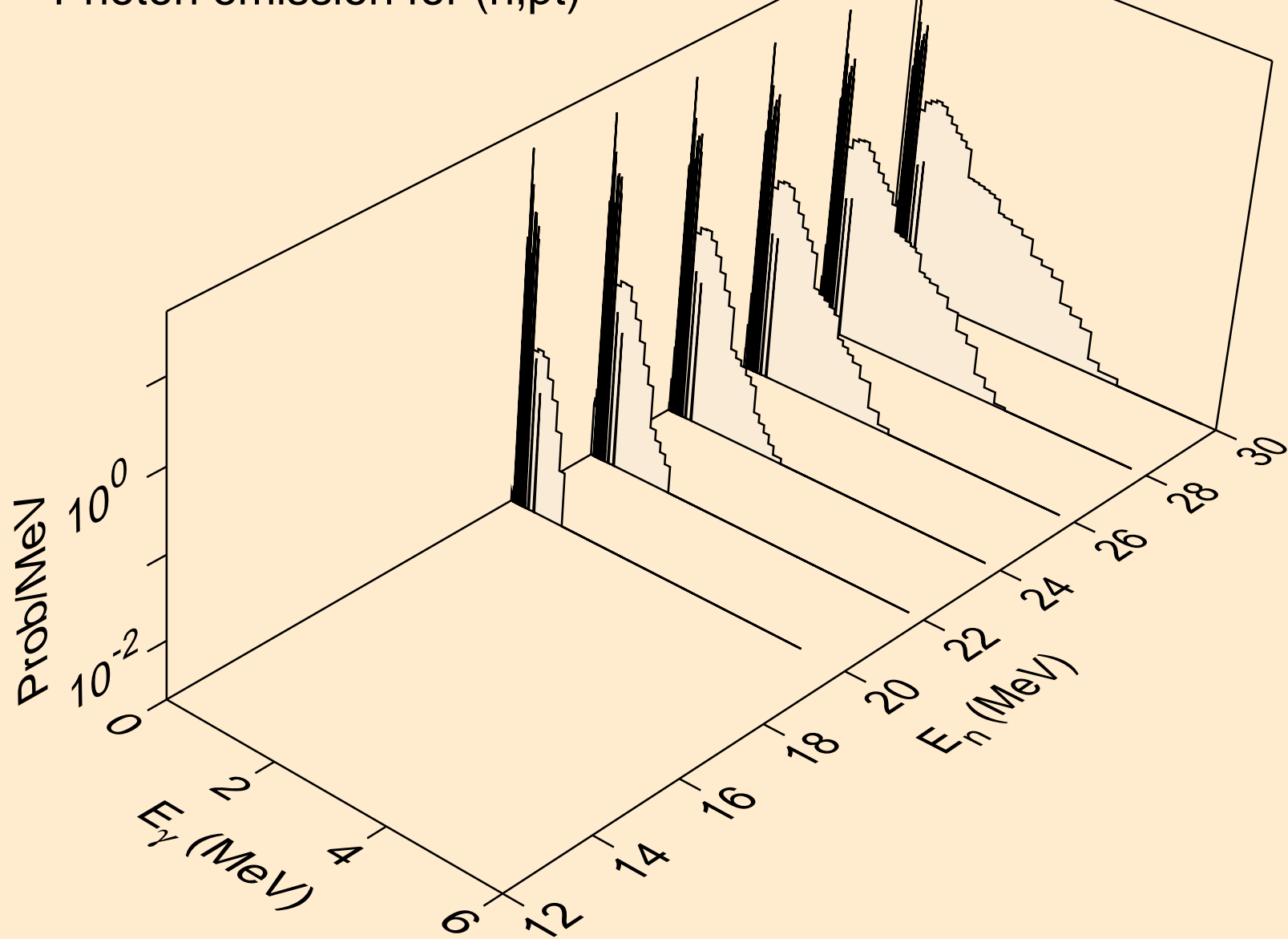
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Photon emission for (n,p $\alpha$ )



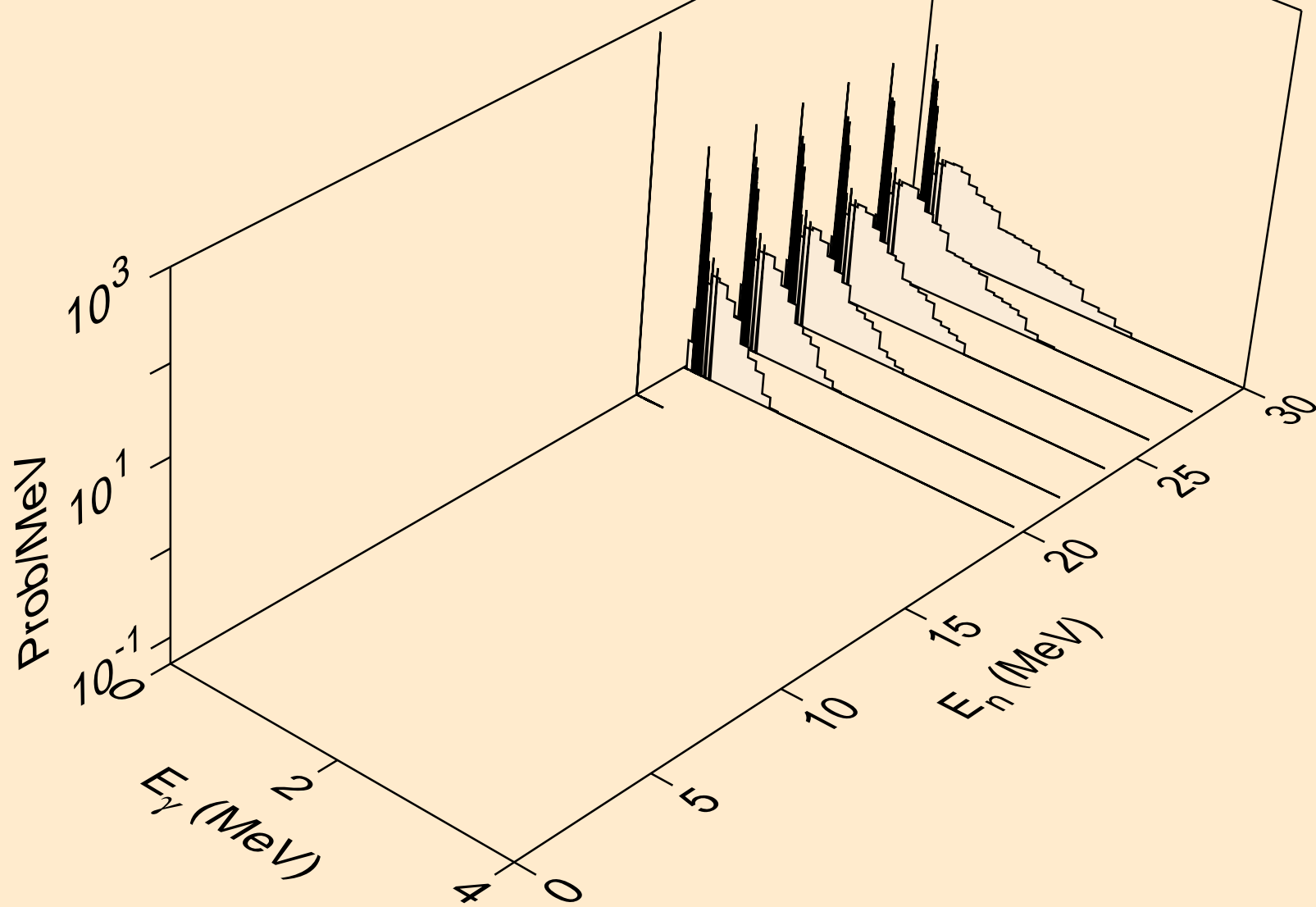
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Photon emission for (n,pd)



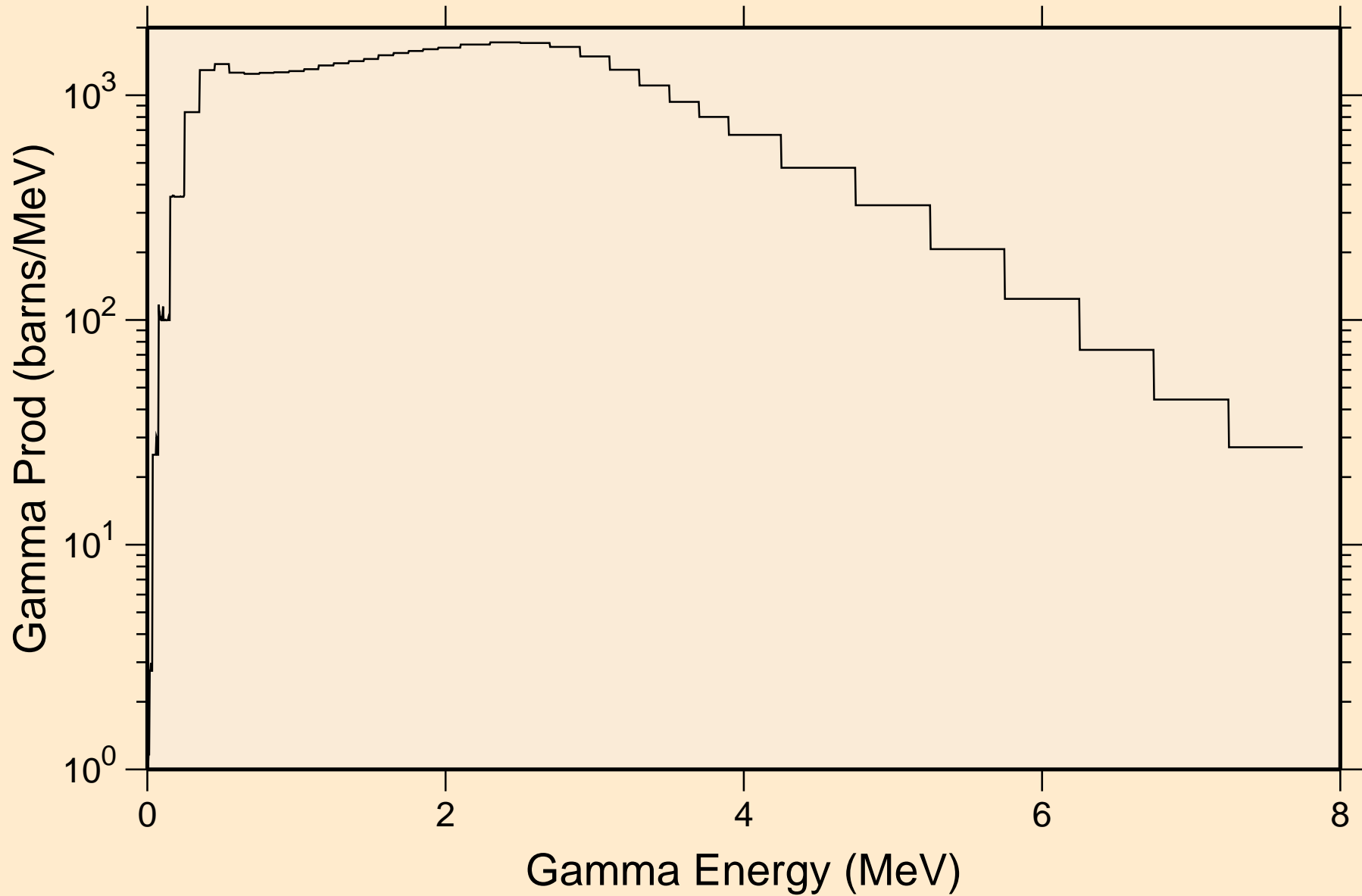
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Photon emission for (n,pt)



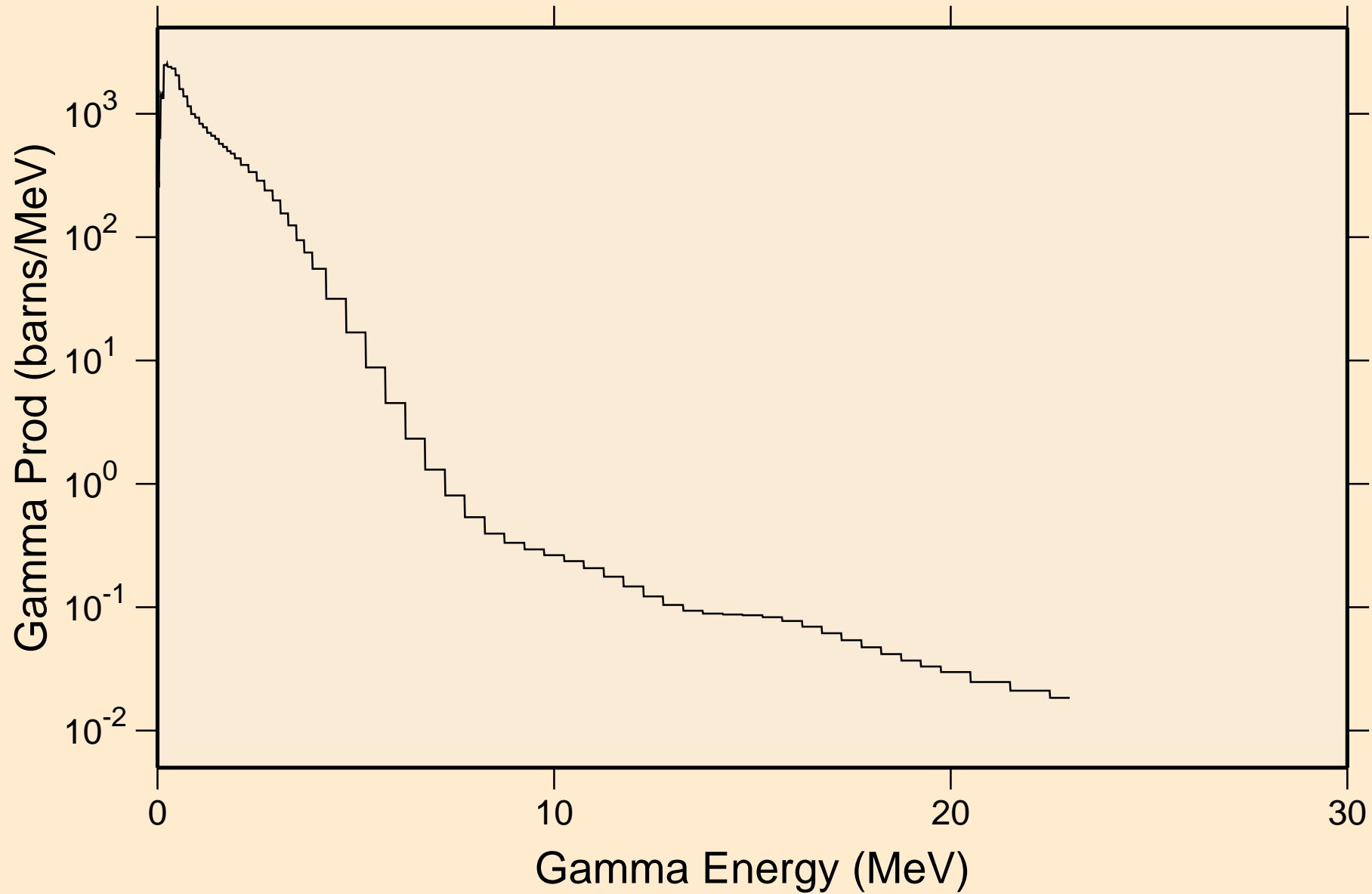
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Photon emission for (n,da)



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thermal capture photon spectrum

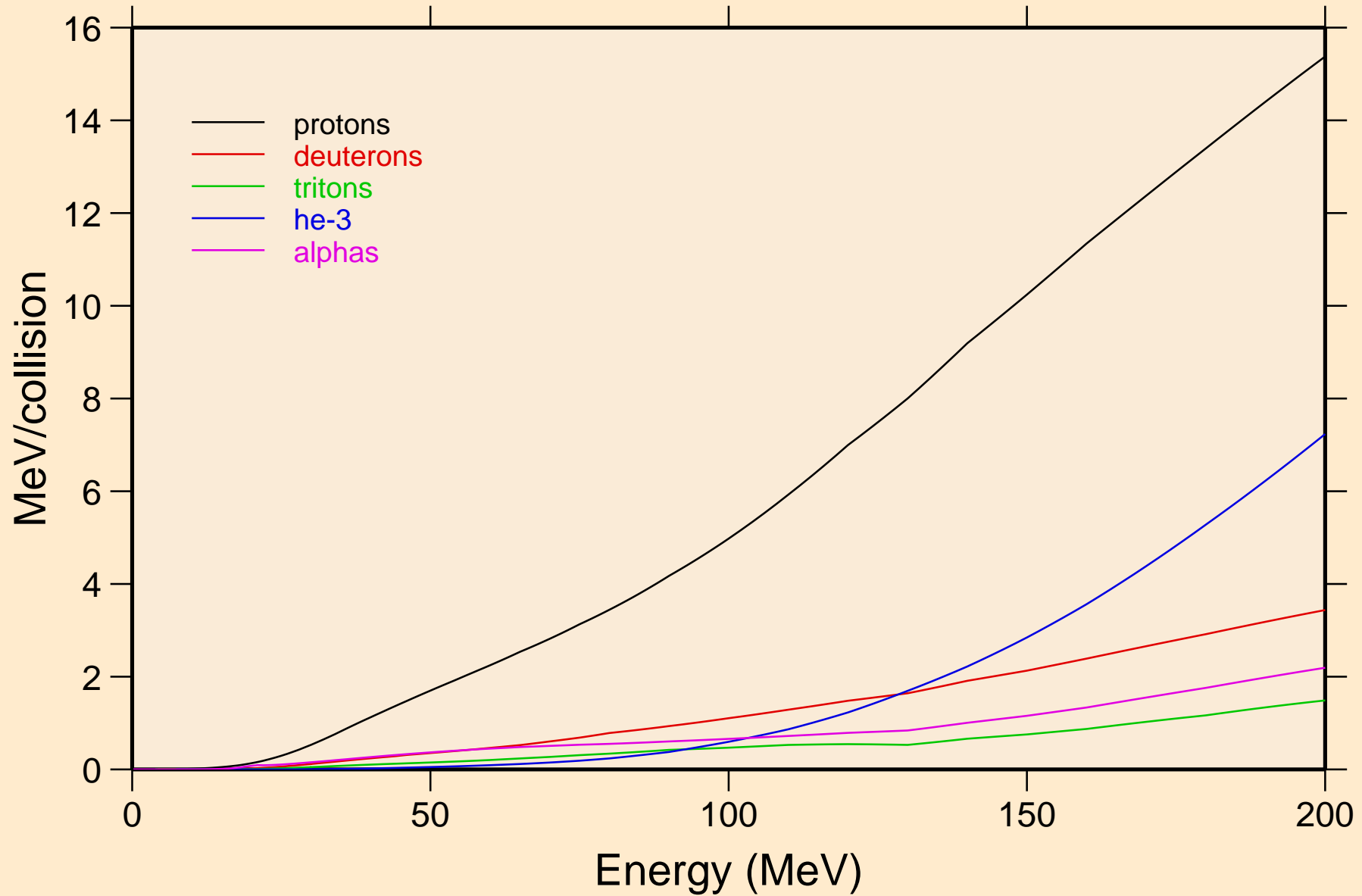


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14 MeV photon spectrum



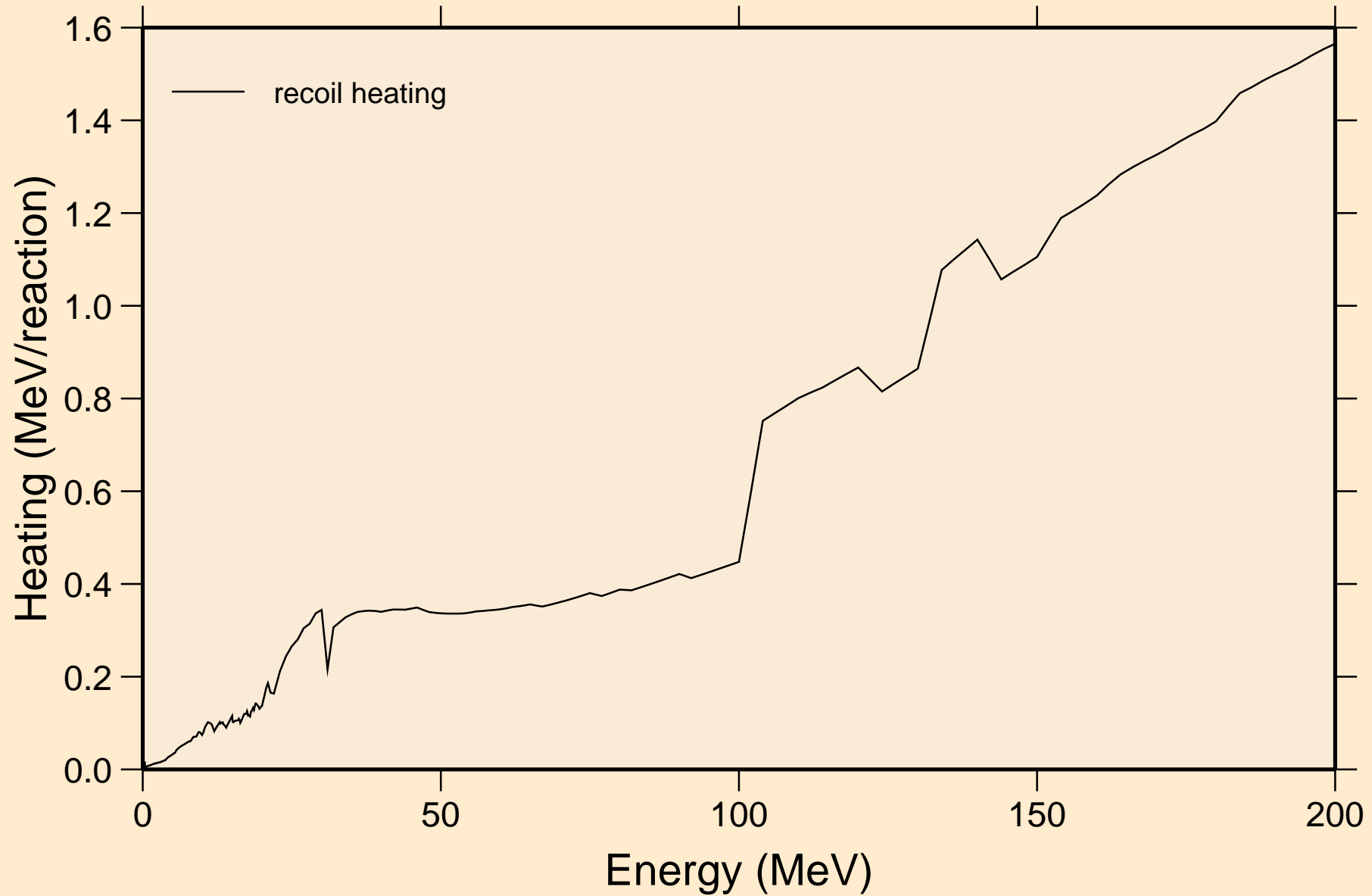
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## Particle heating contributions

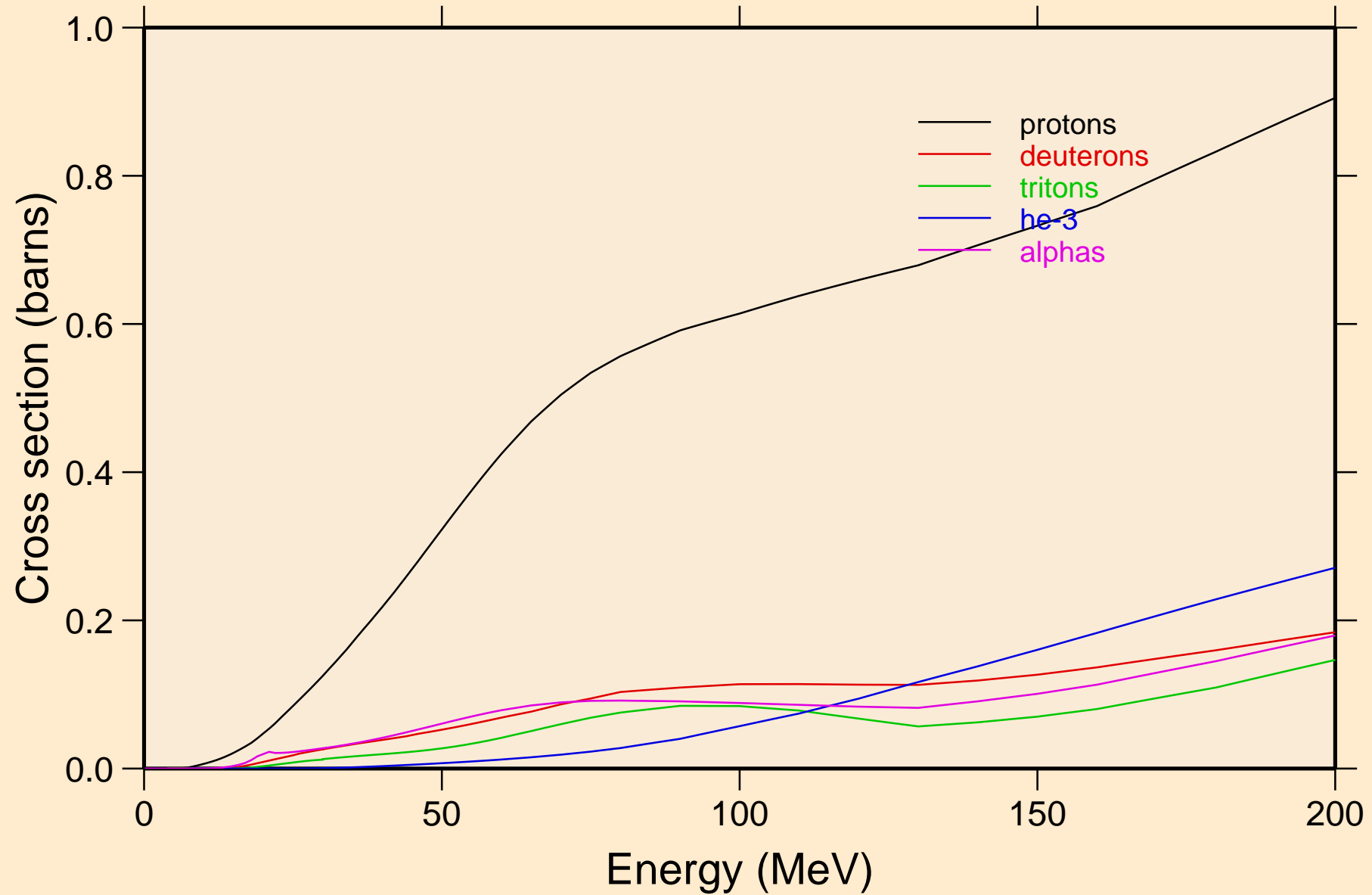




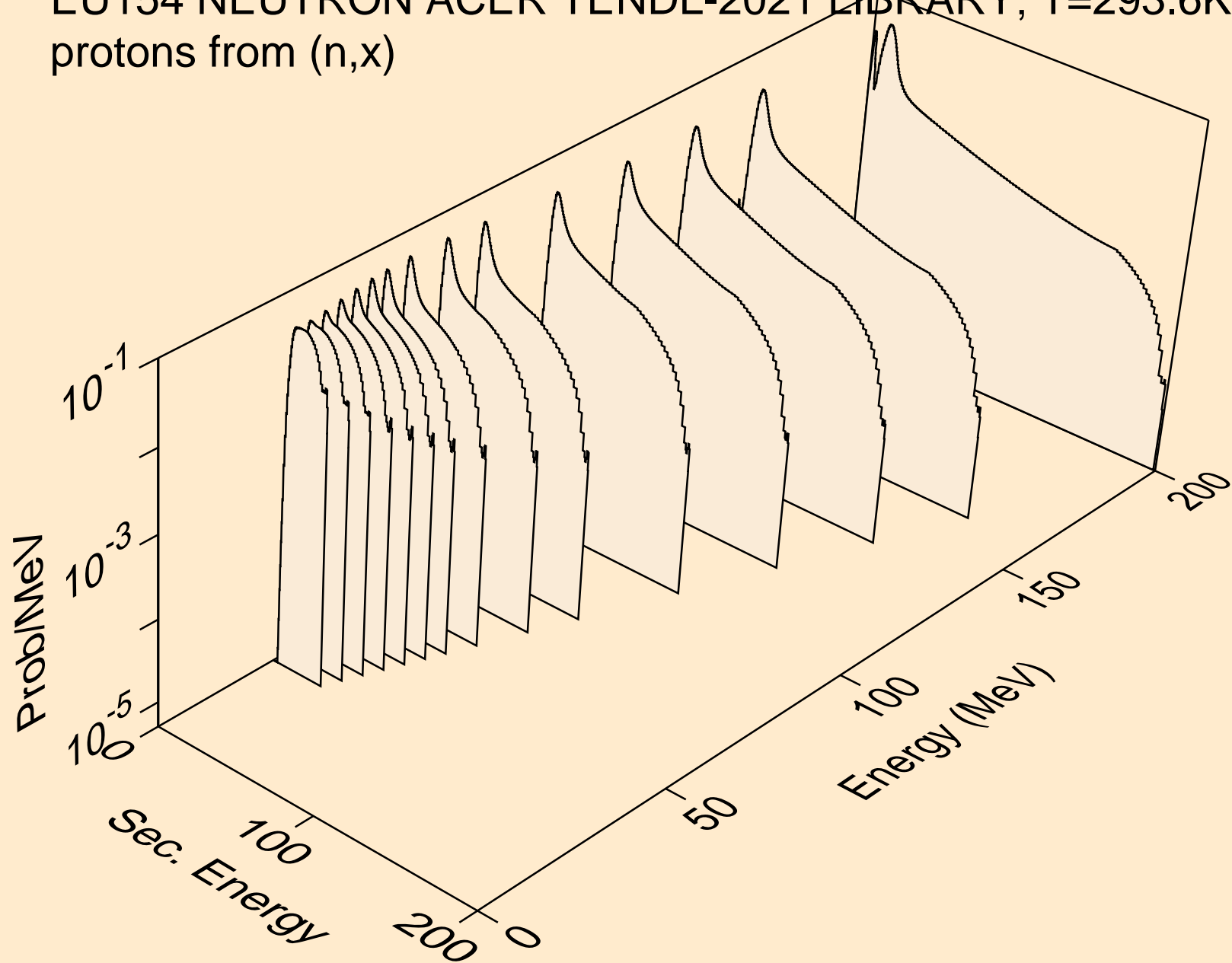
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Recoil Heating



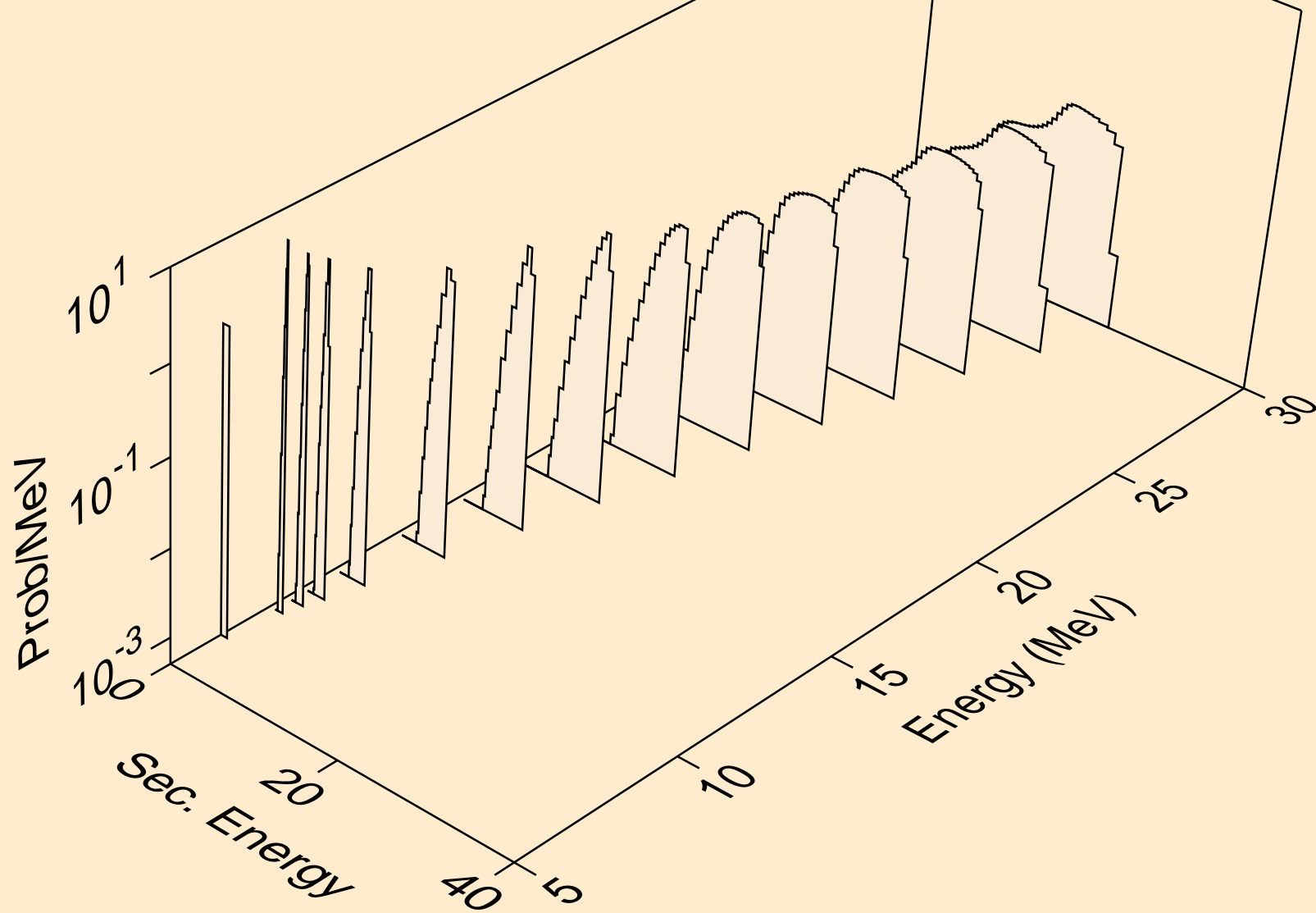
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Particle production cross sections



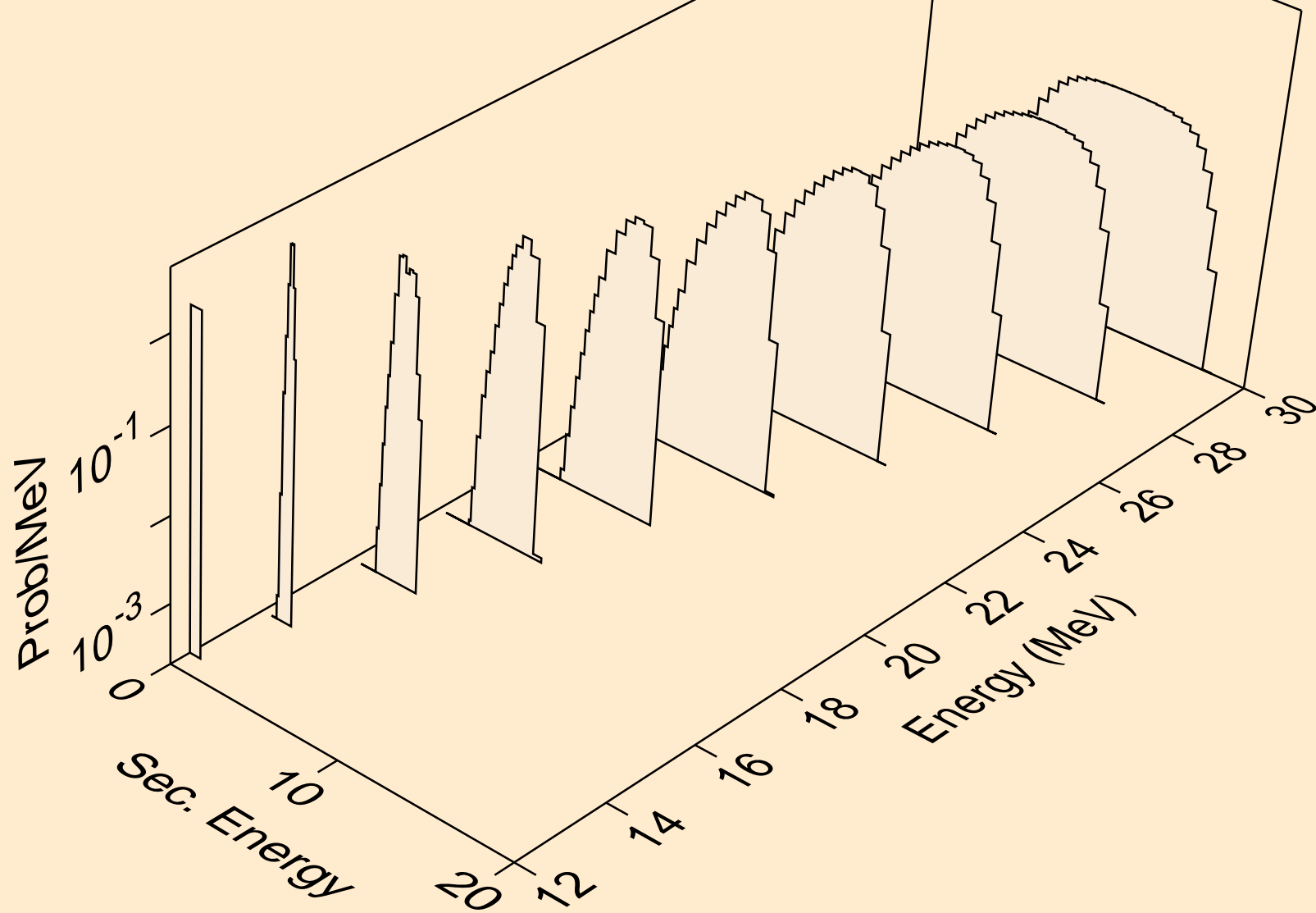
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



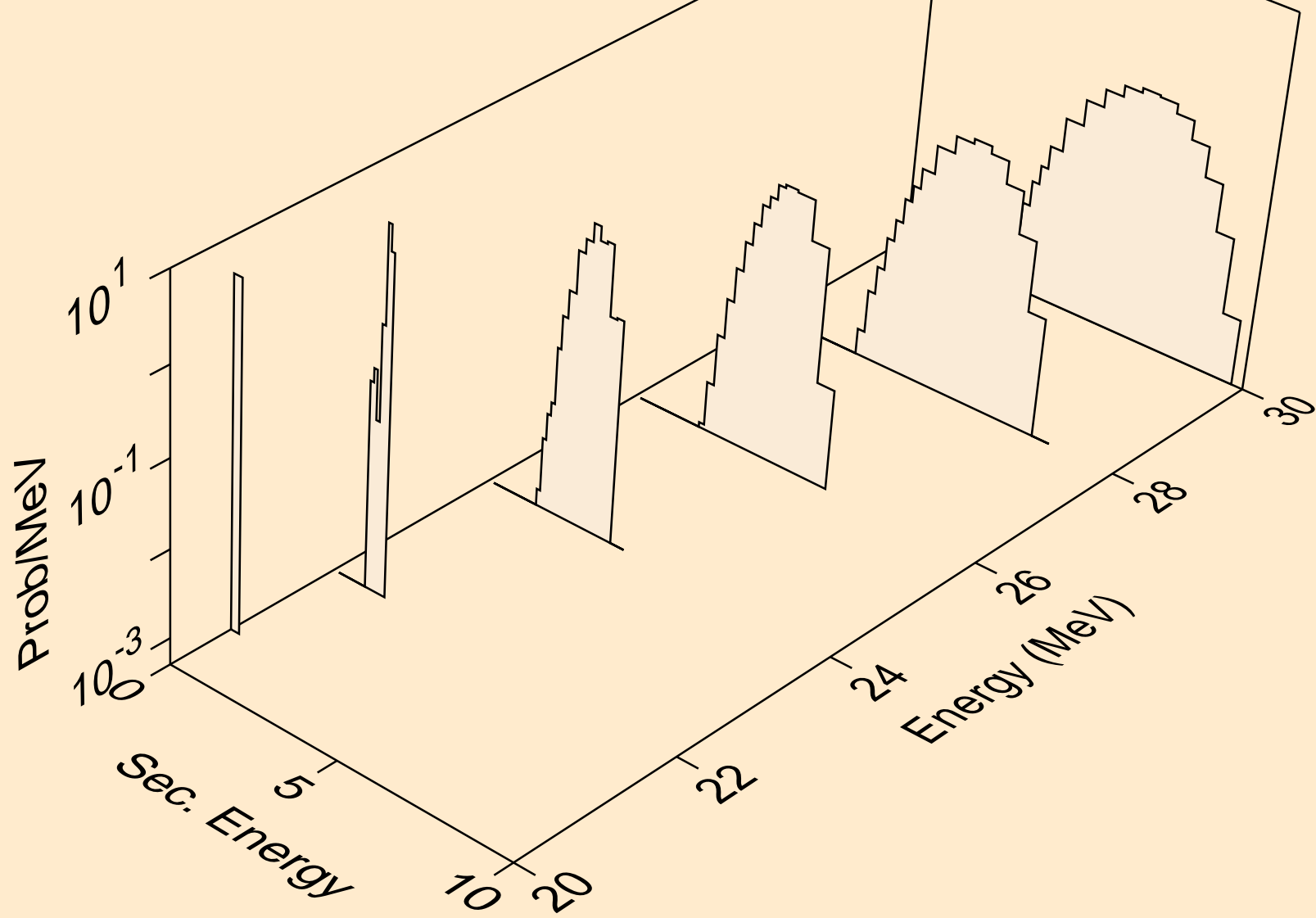
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



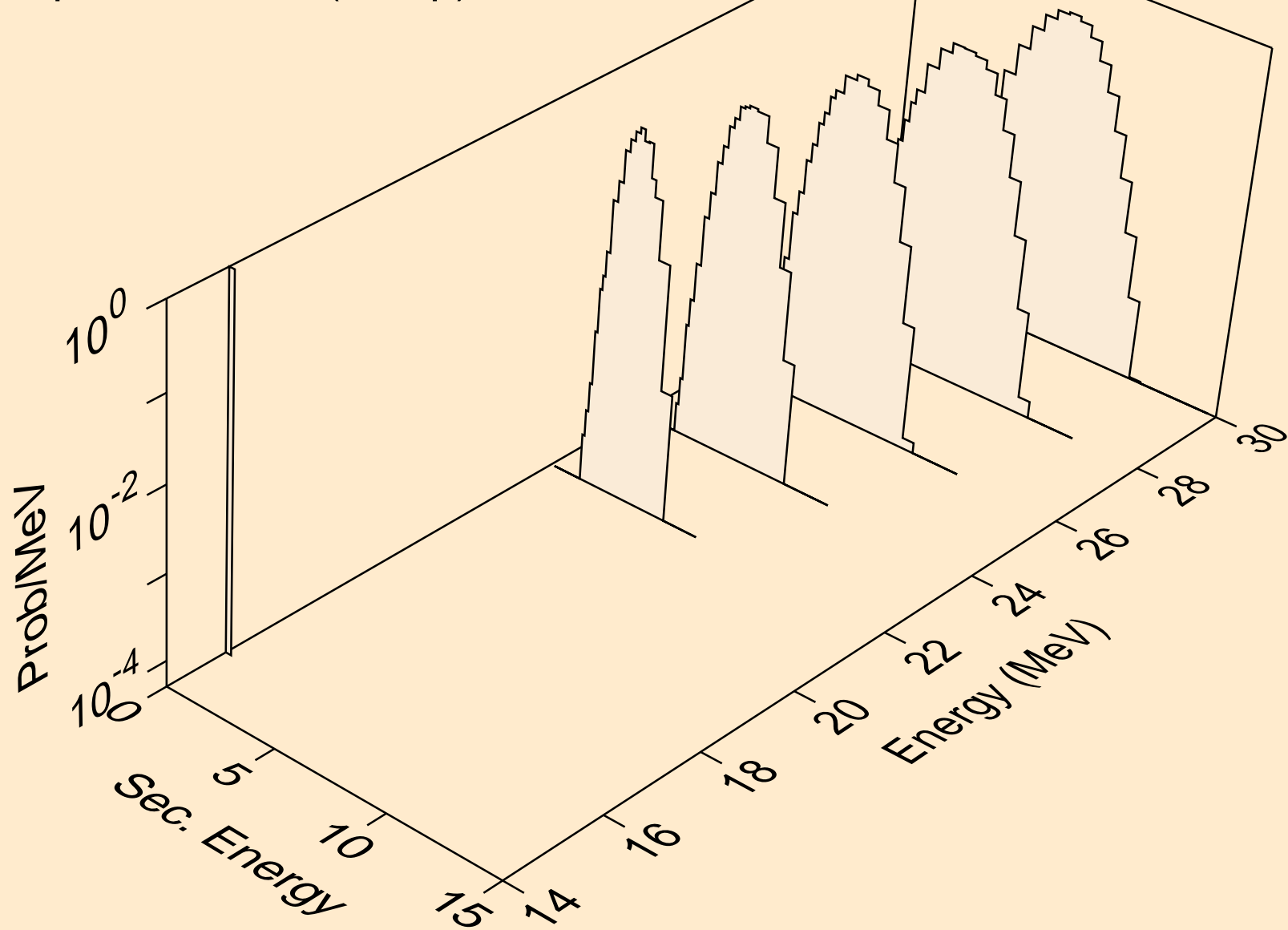
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protons from (n,2np)



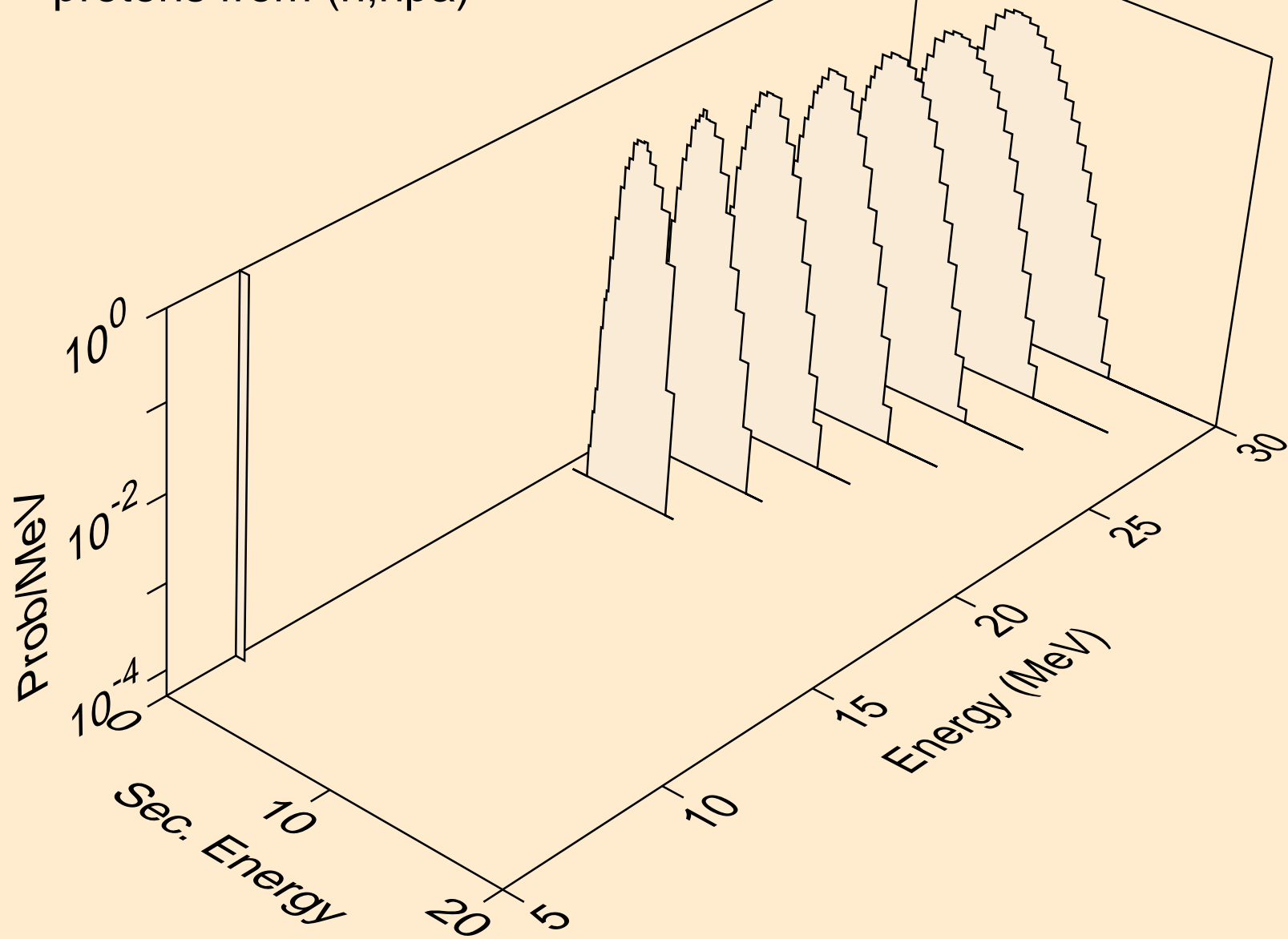
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protons from (n,3np)



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protons from (n,2np)

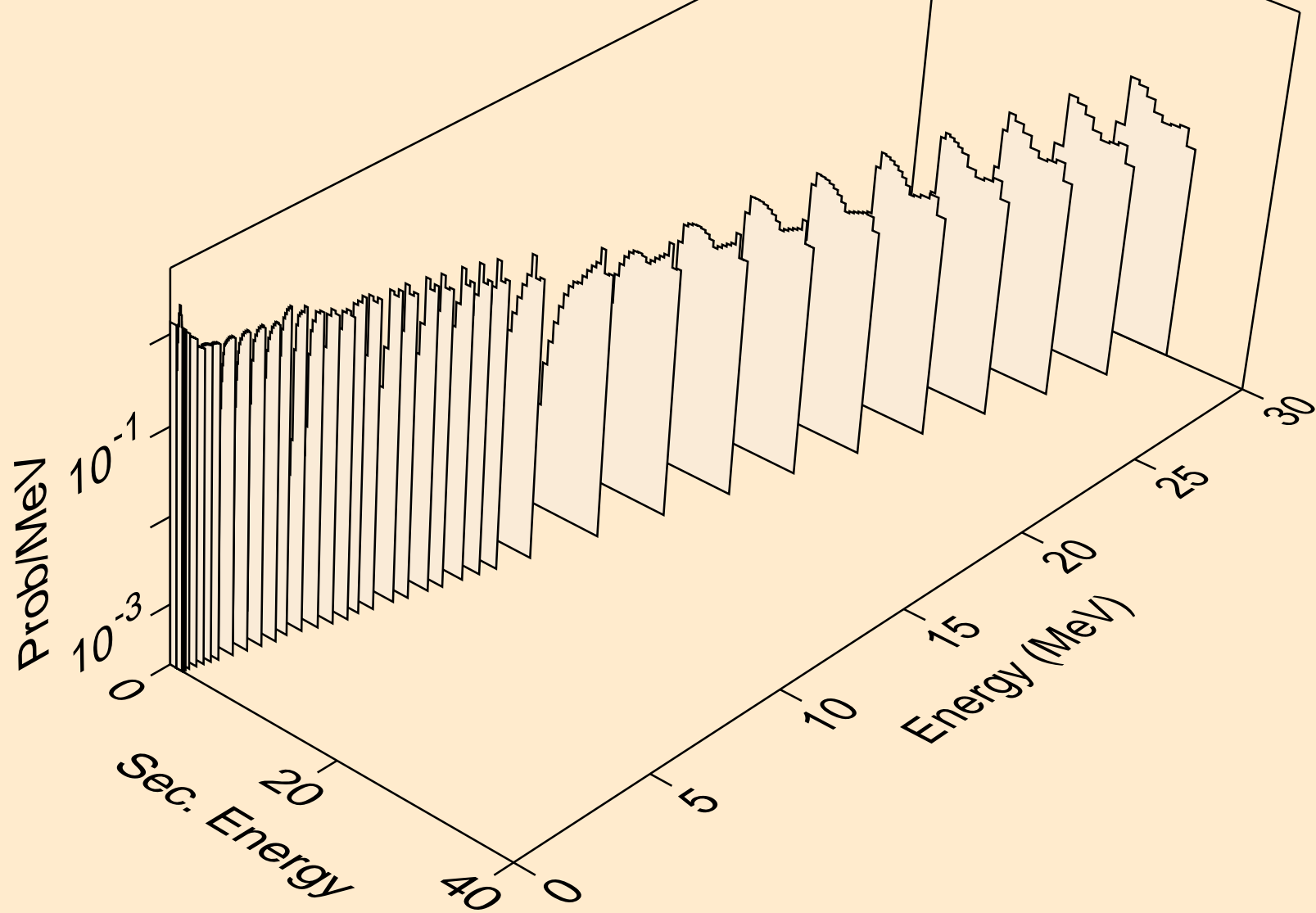


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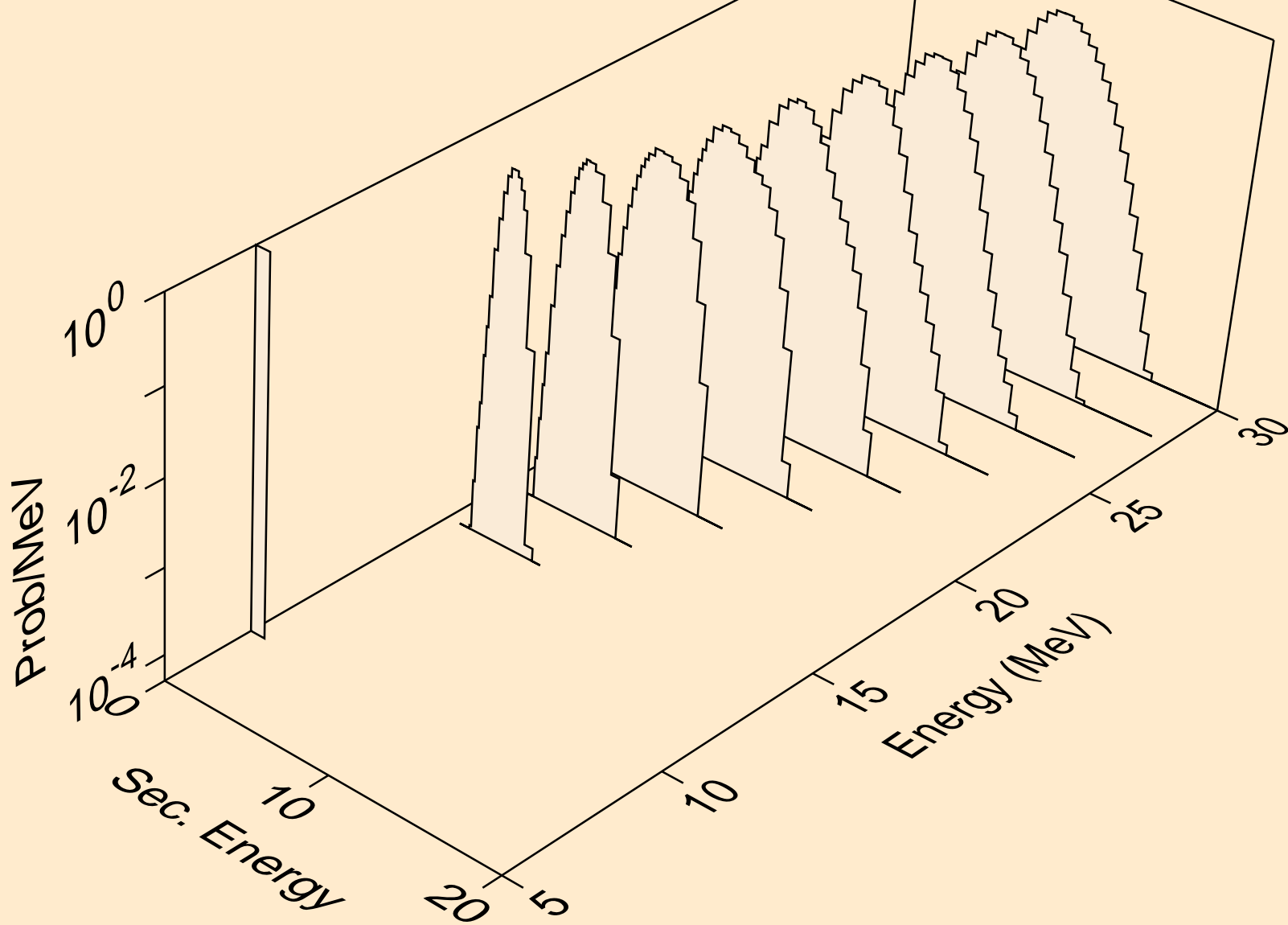




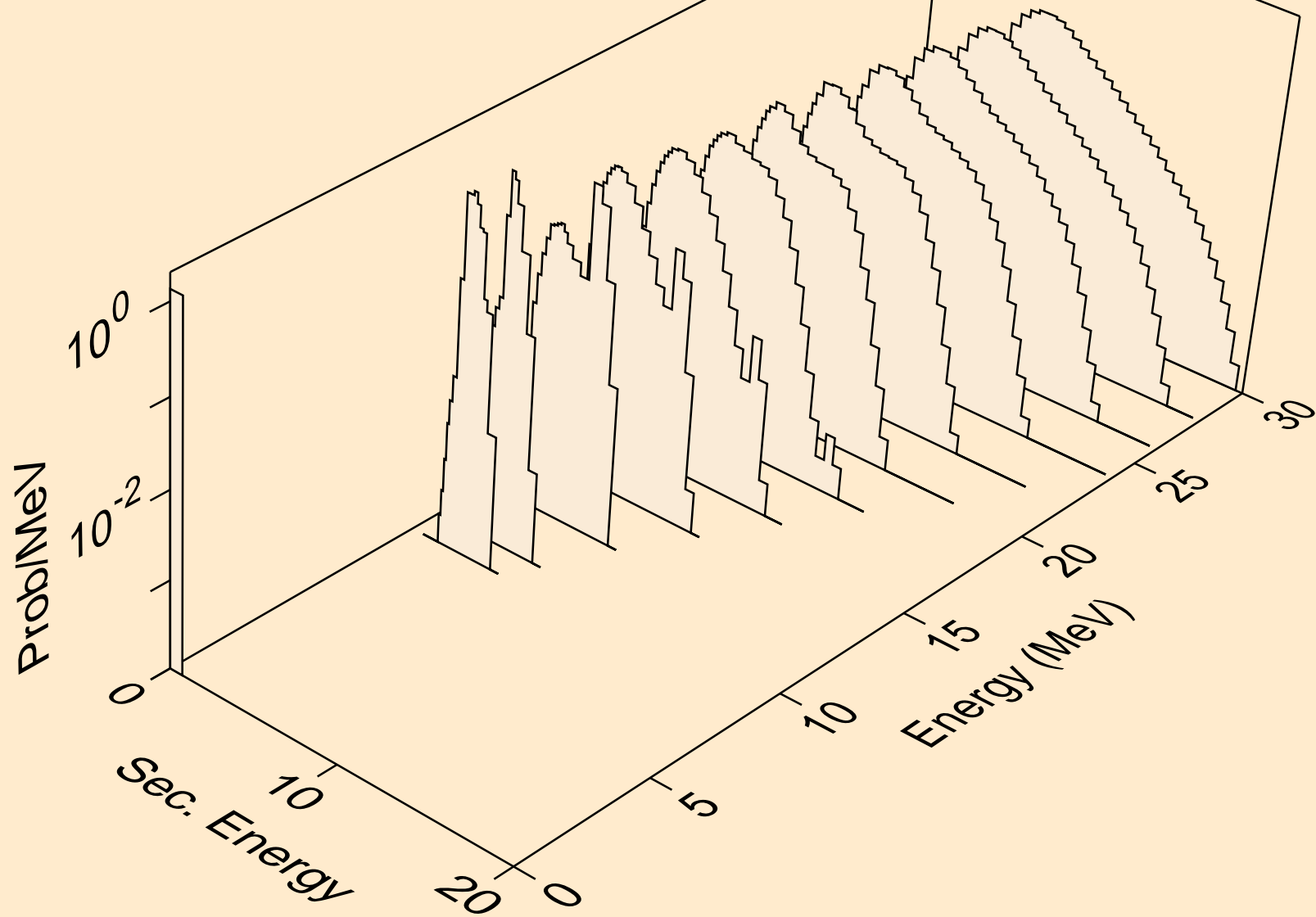
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protons from (n,p)



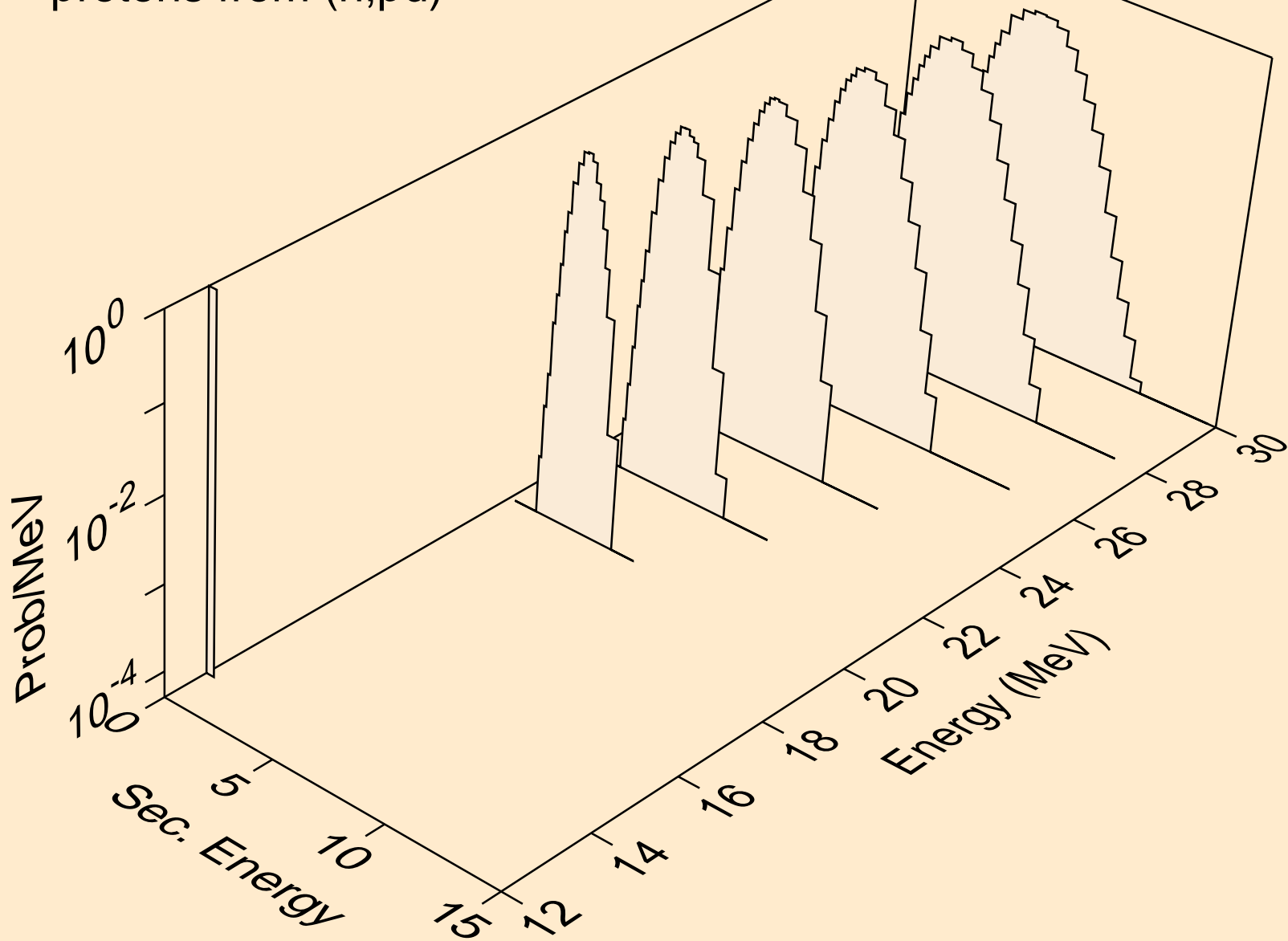
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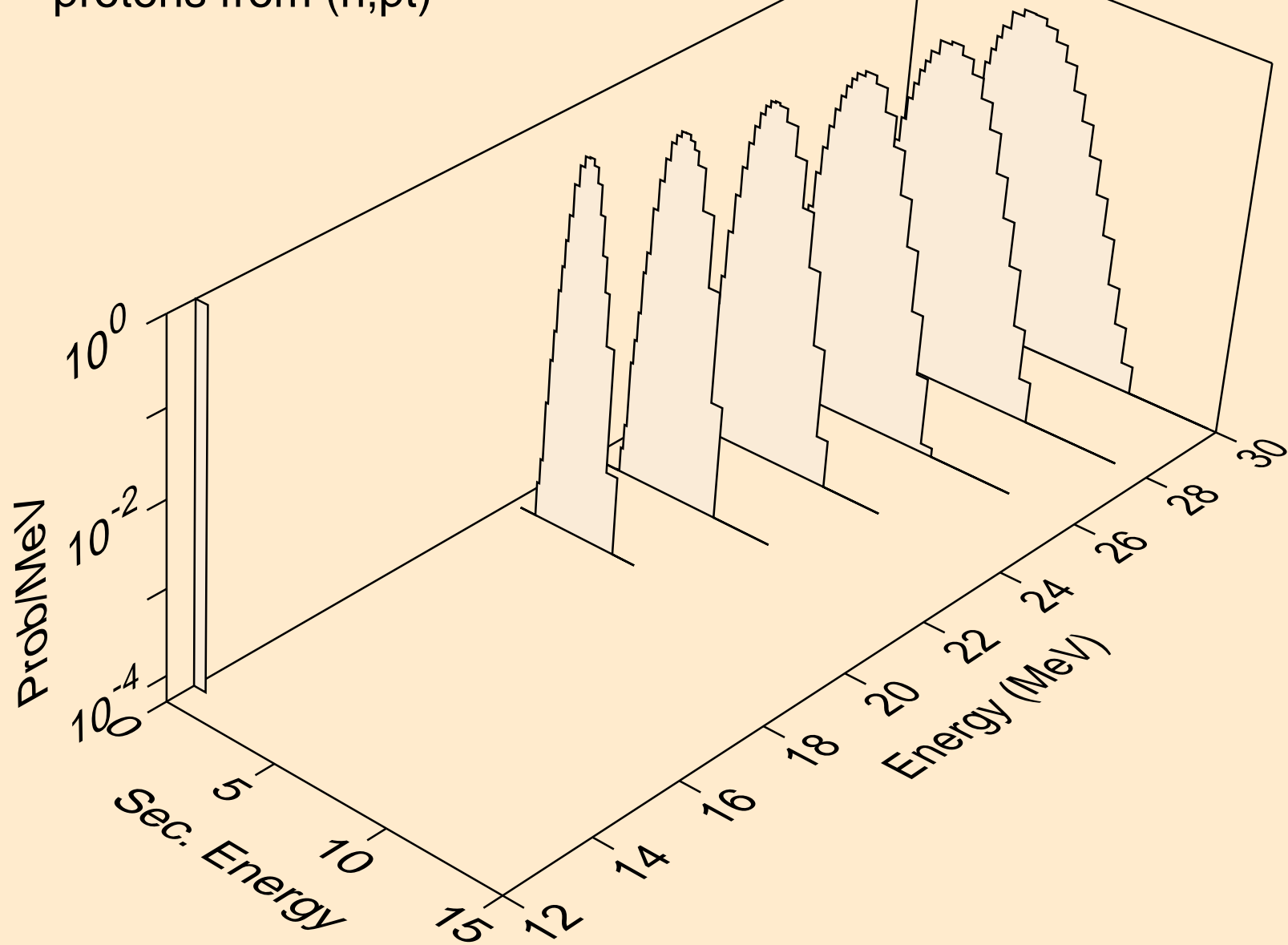
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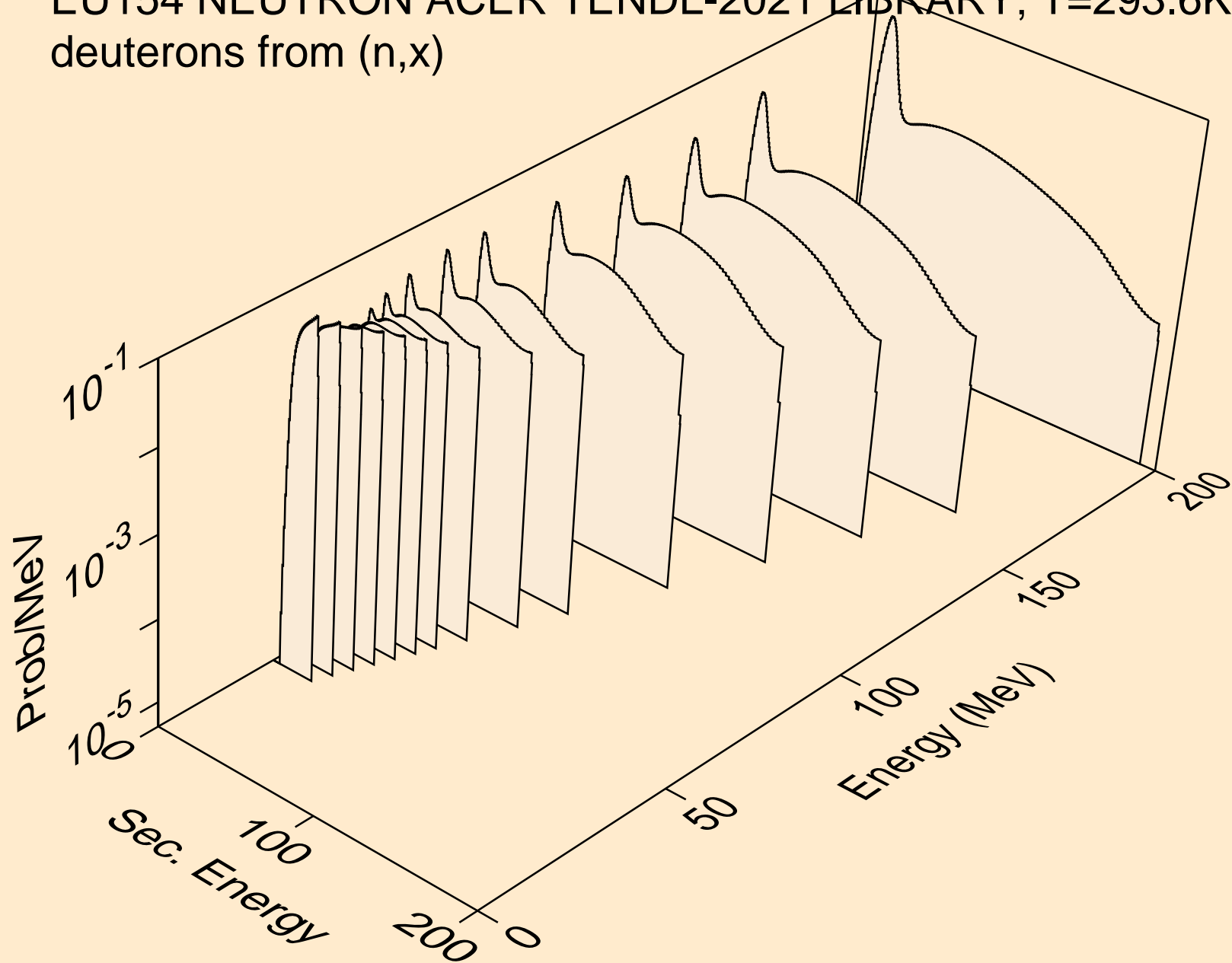
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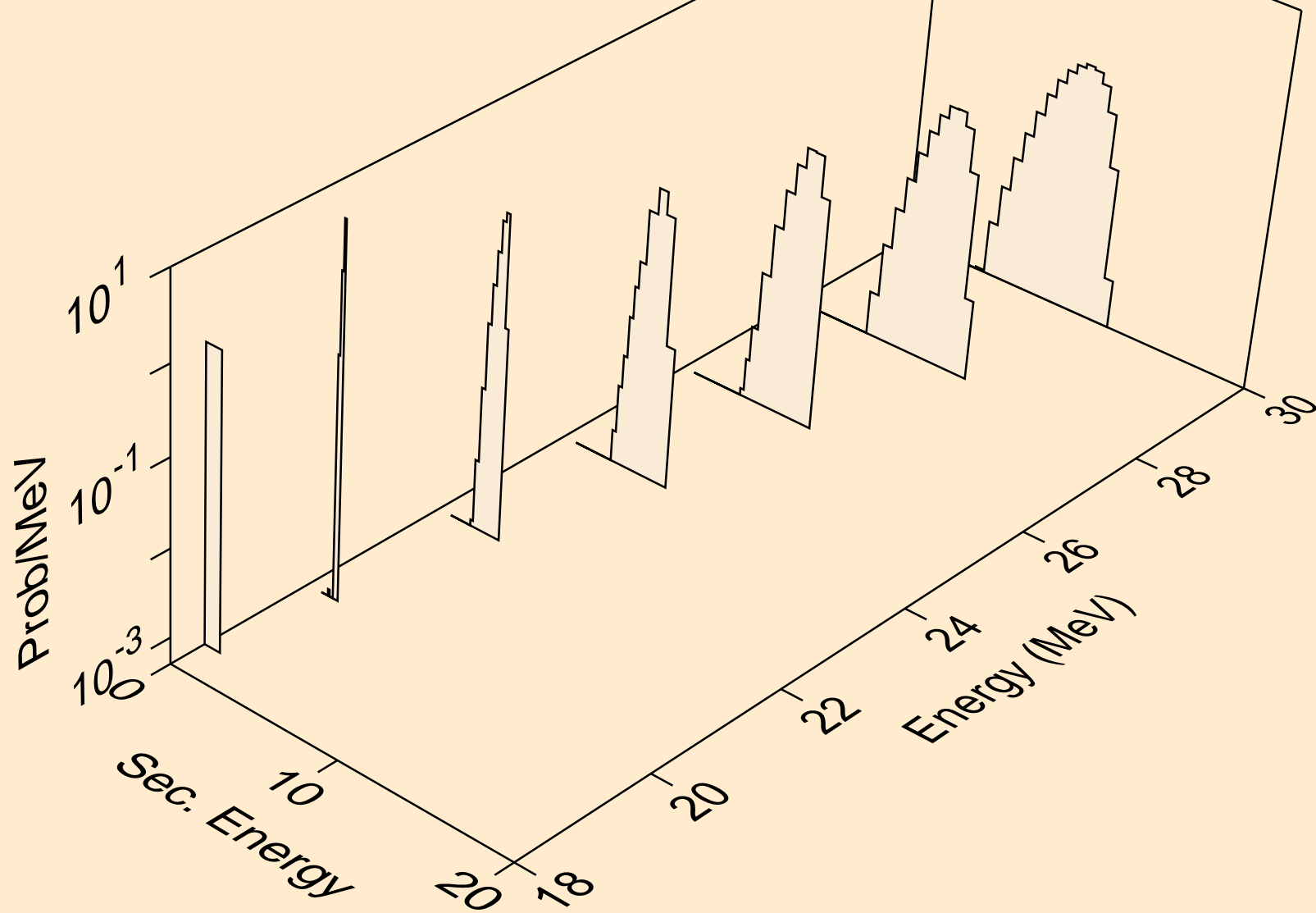
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protons from (n,pt)



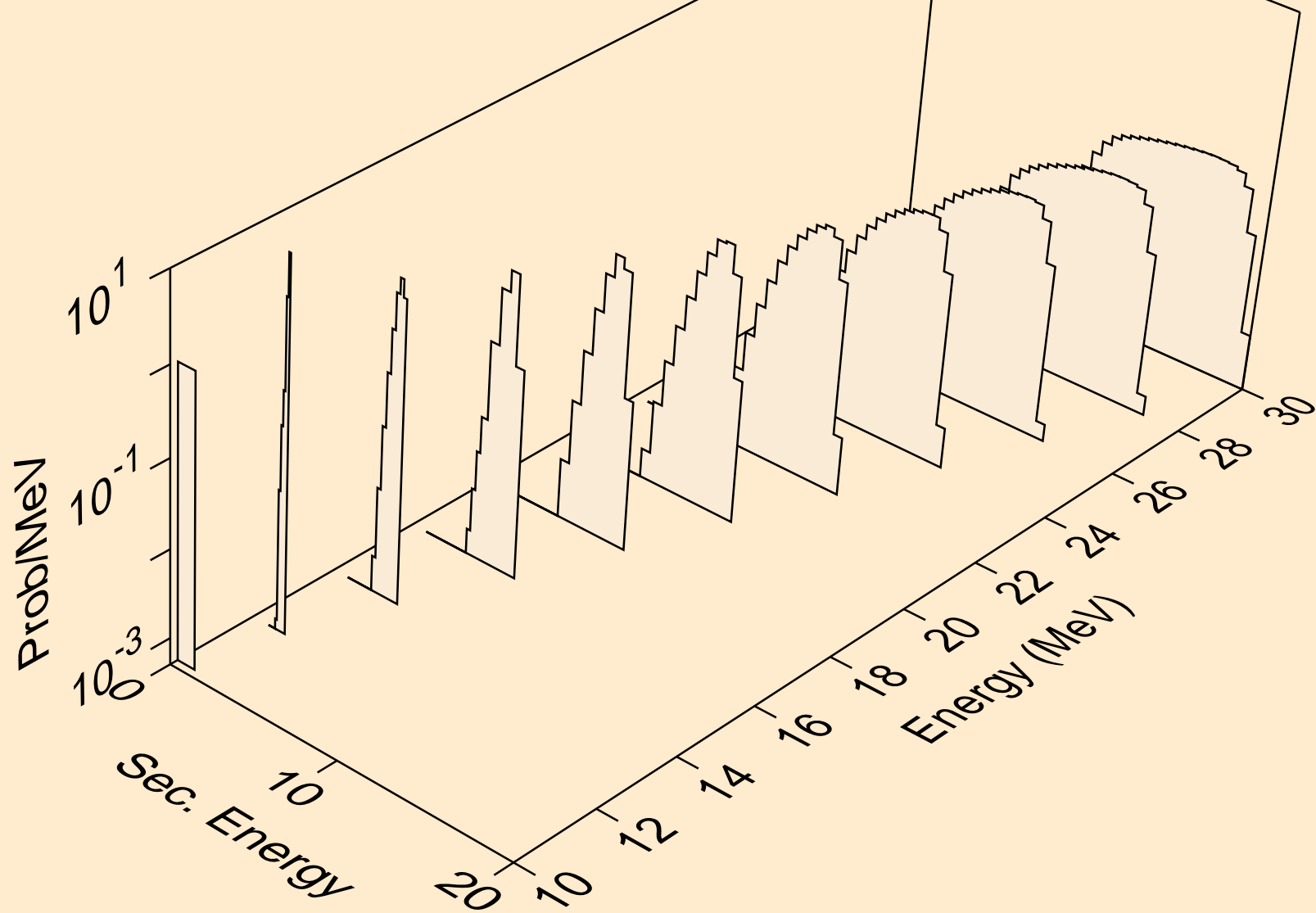
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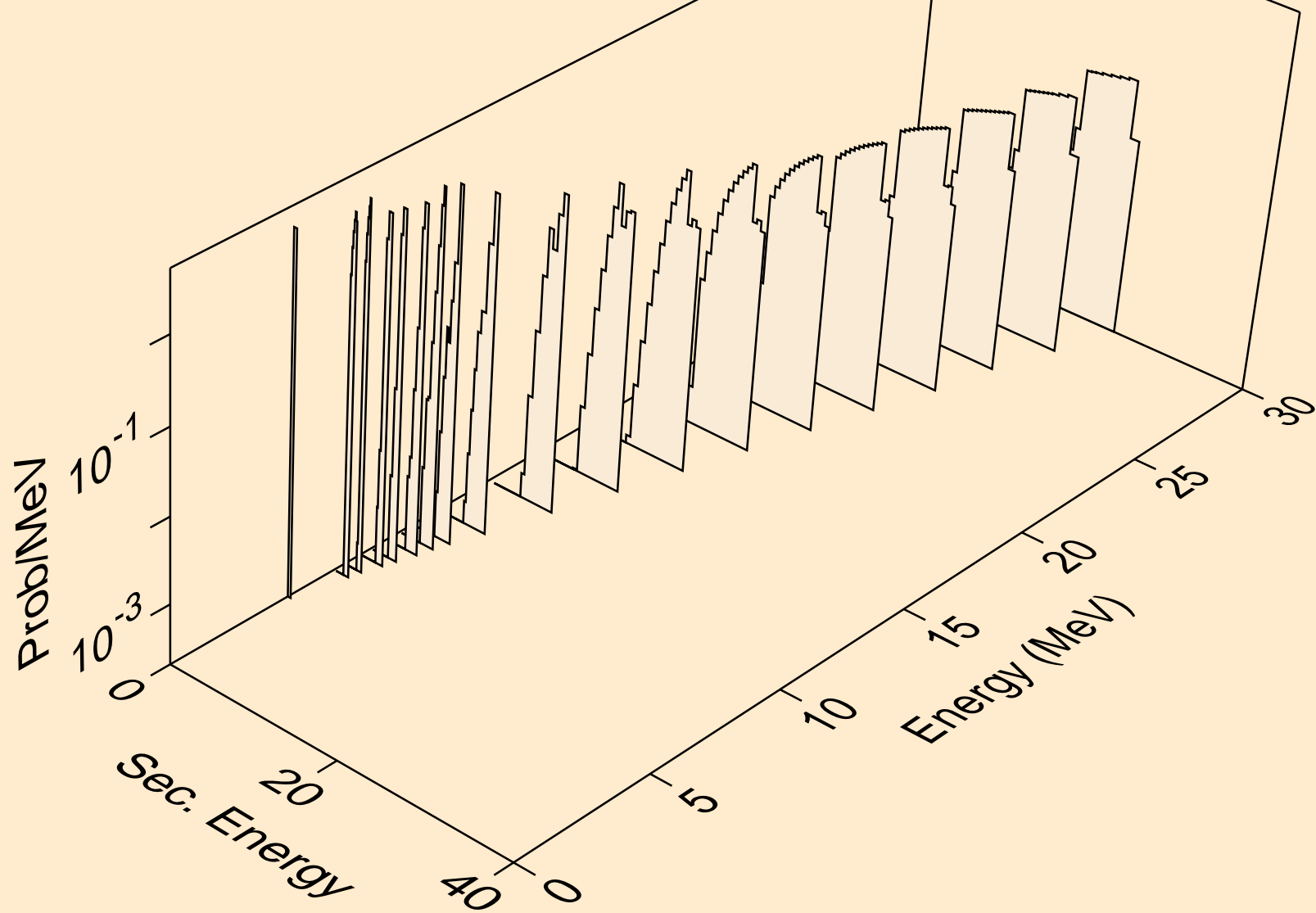


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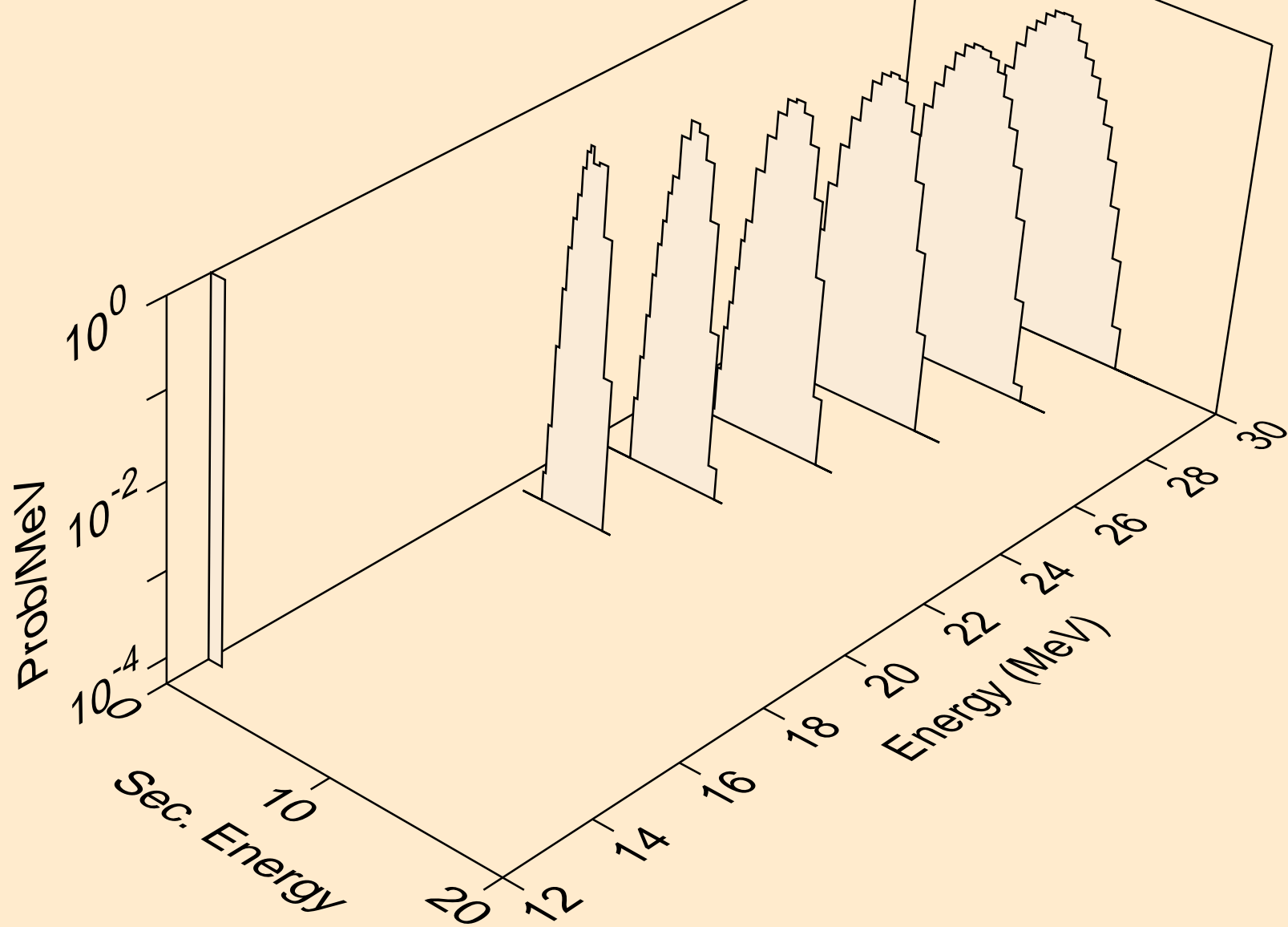




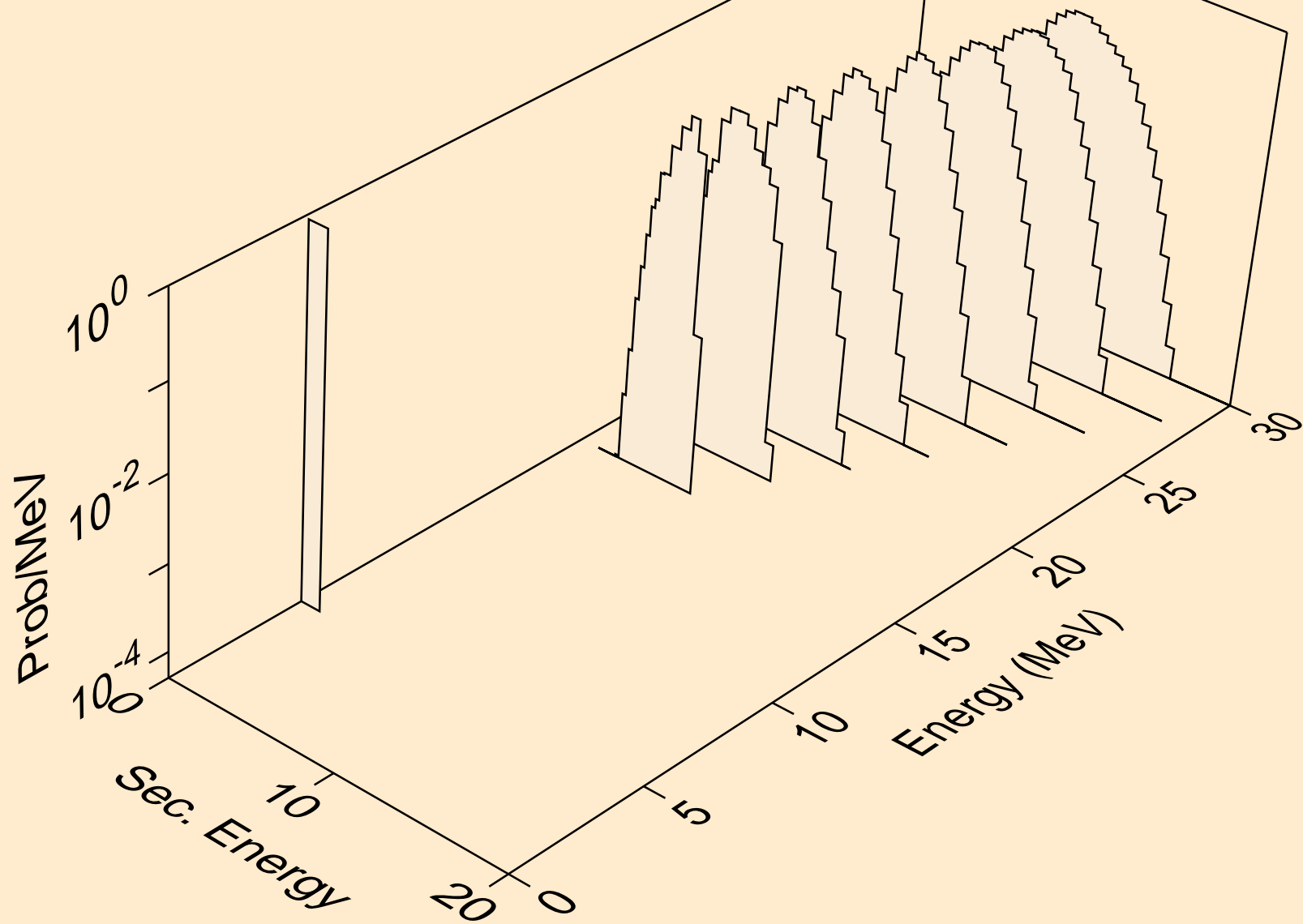
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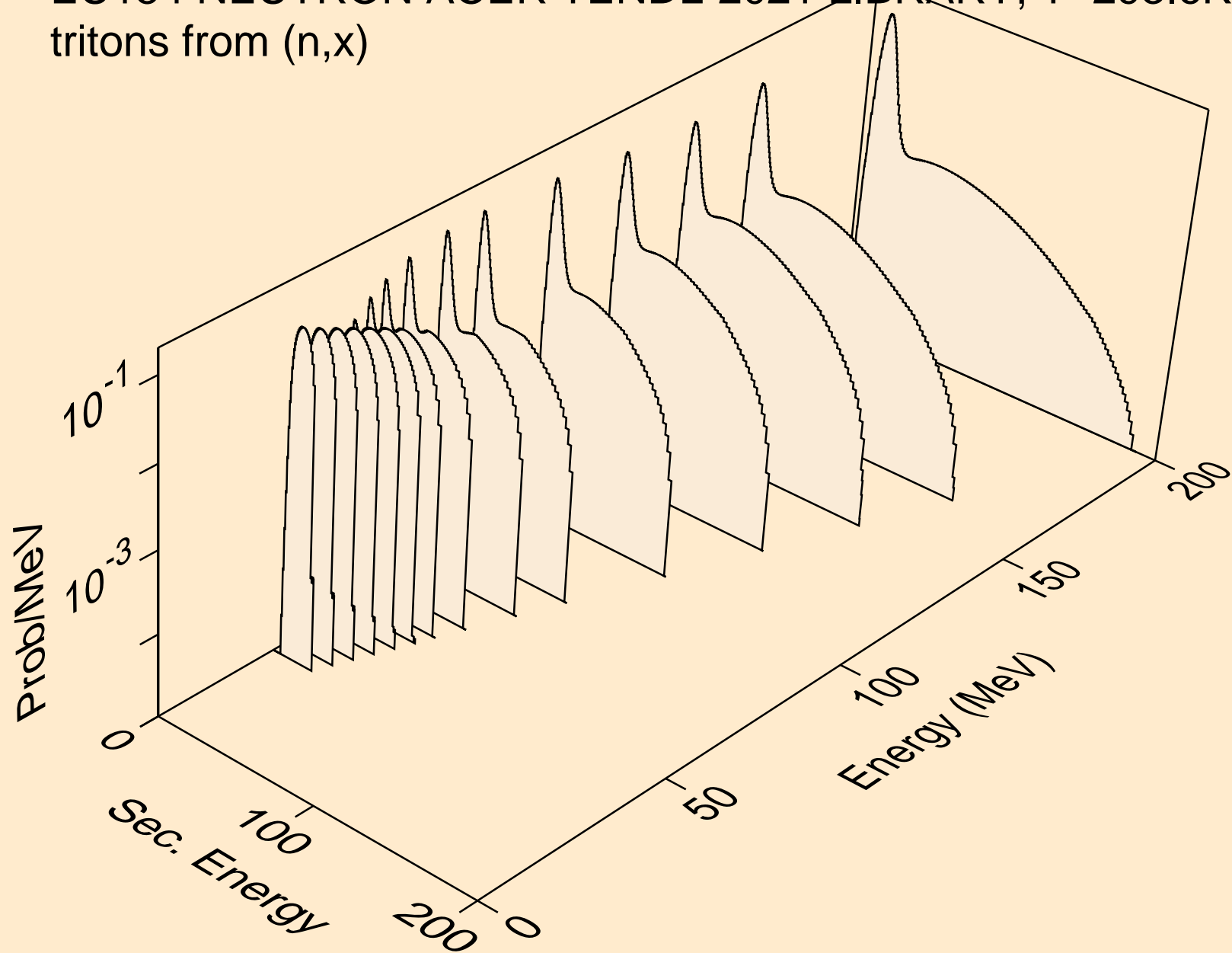
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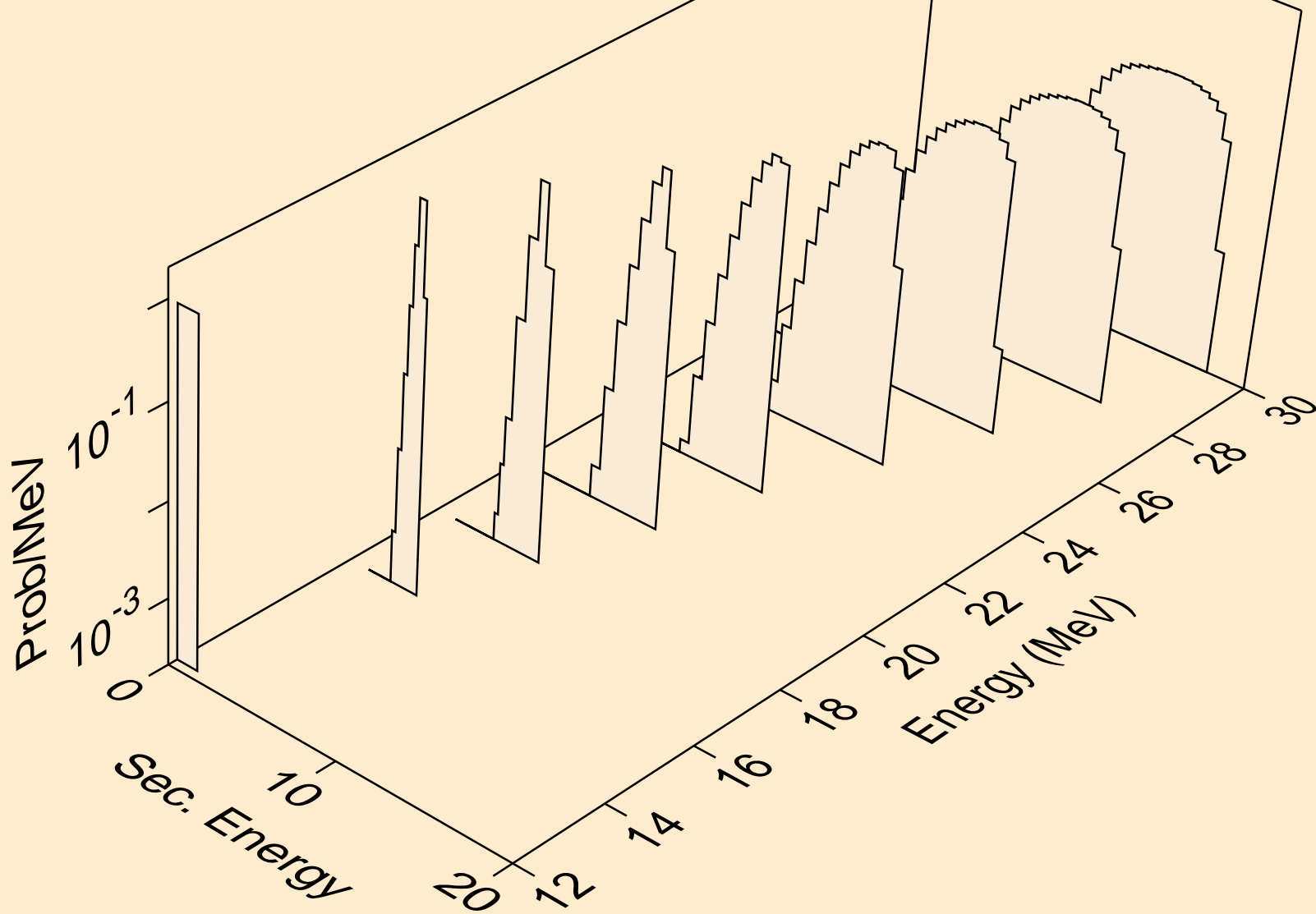
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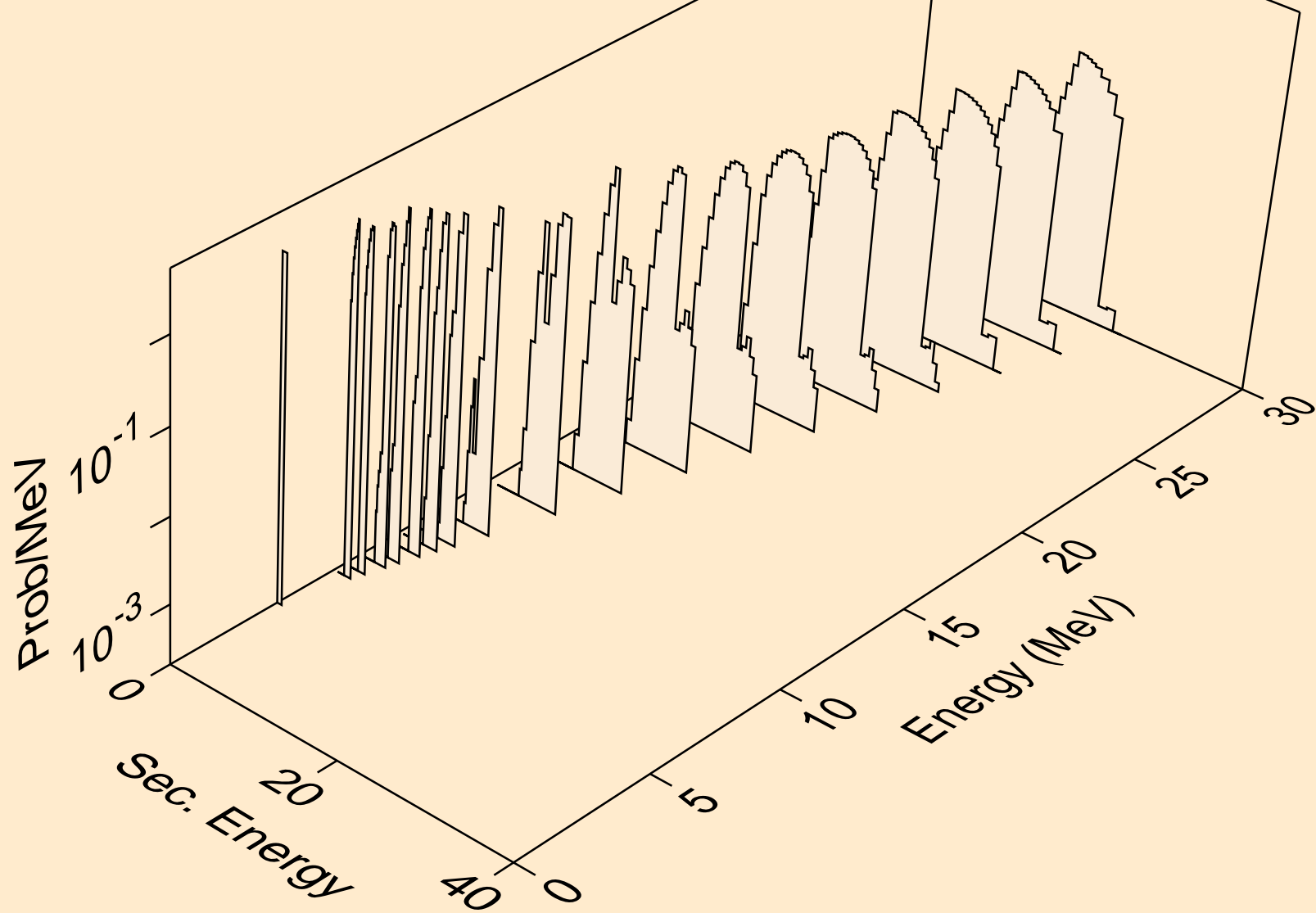
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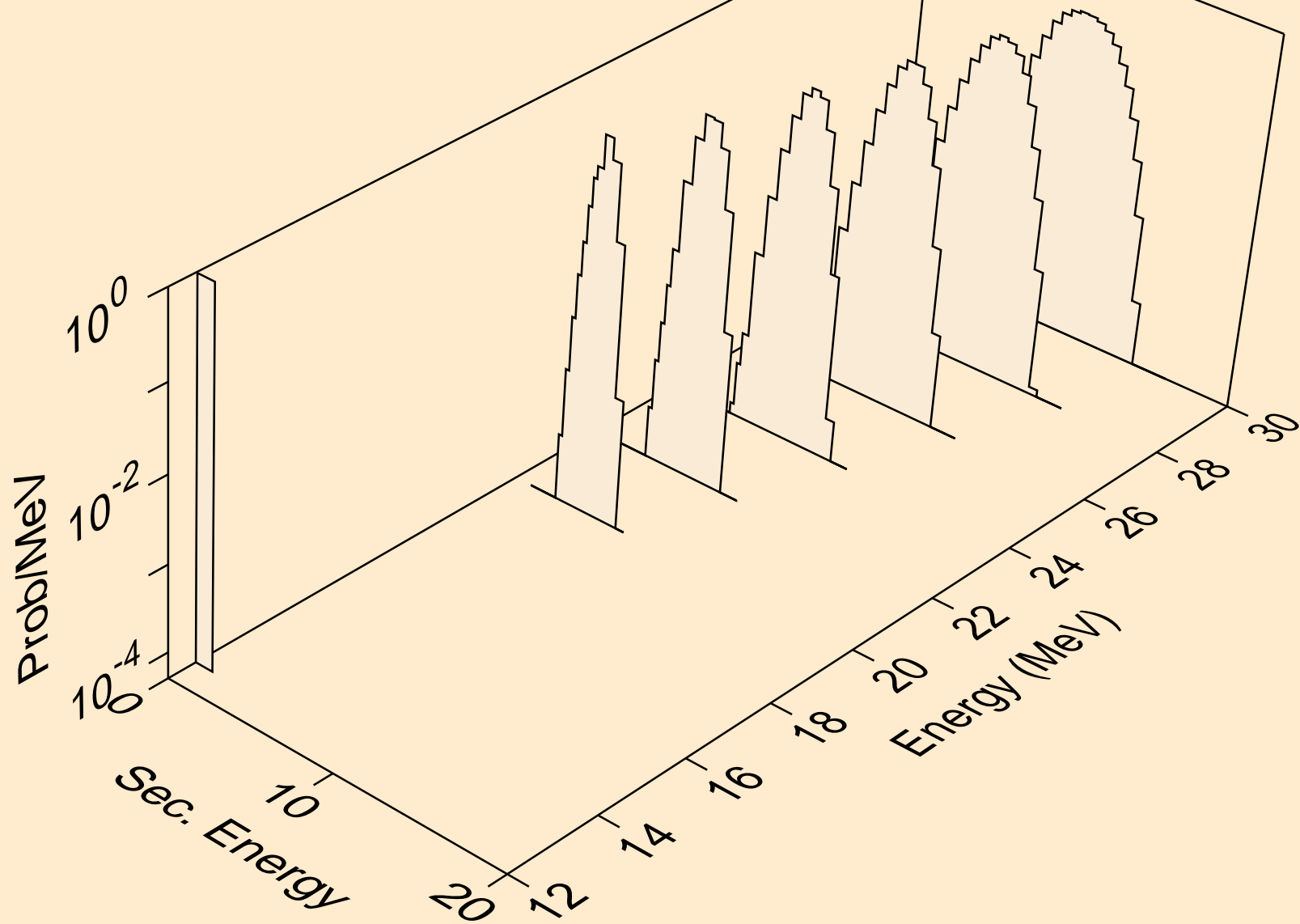
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tritons from (n,n\*)t



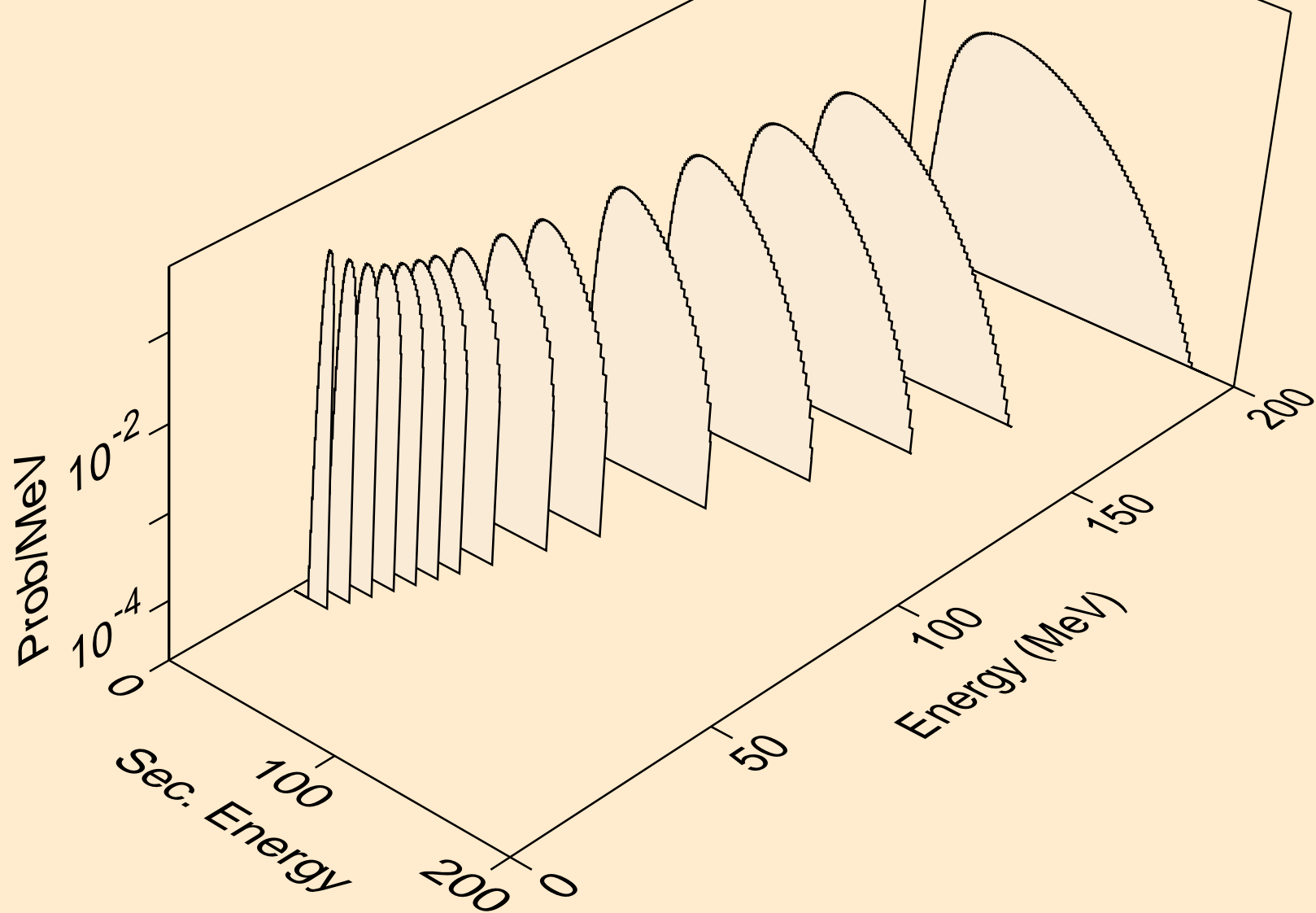
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)

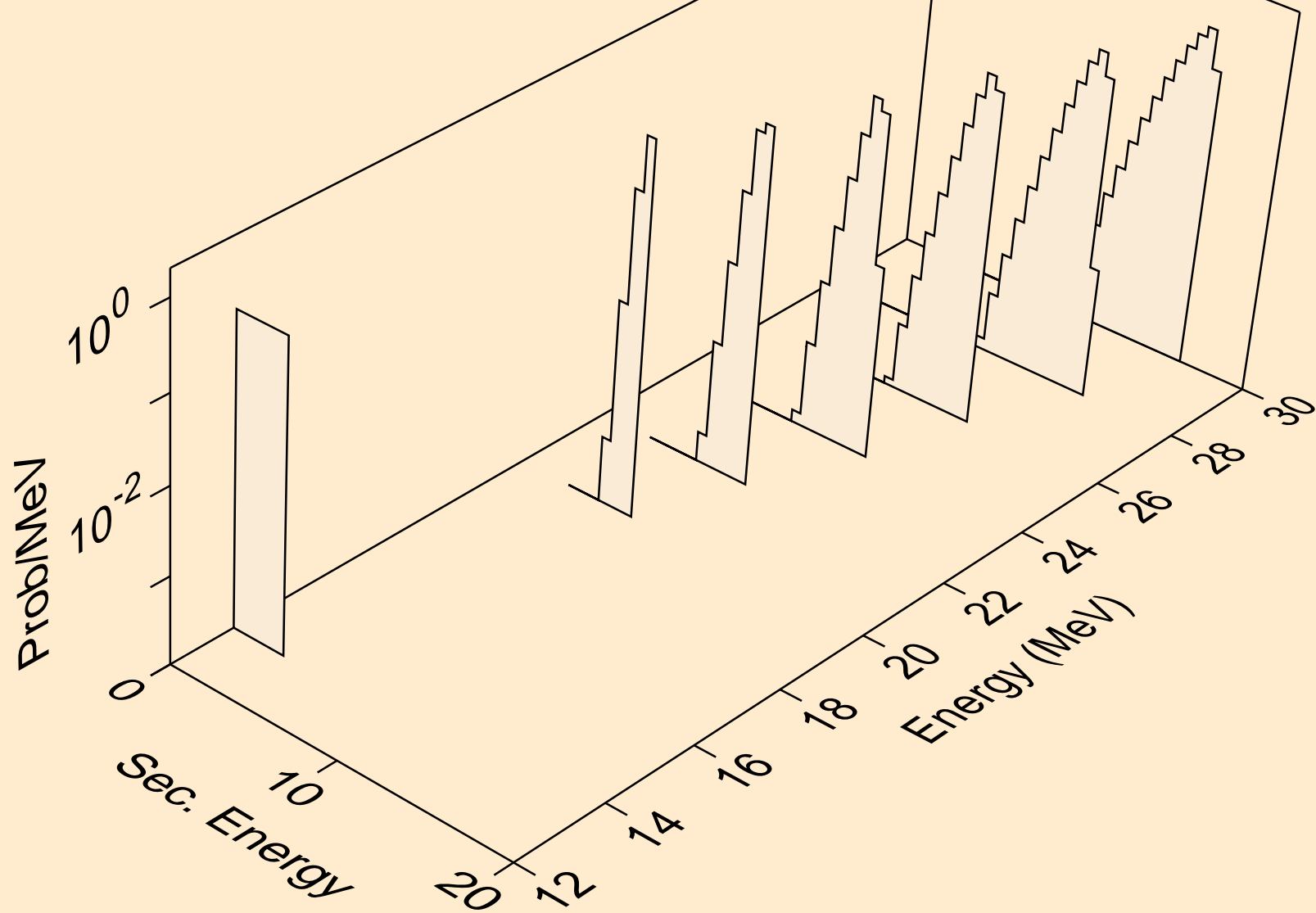


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)

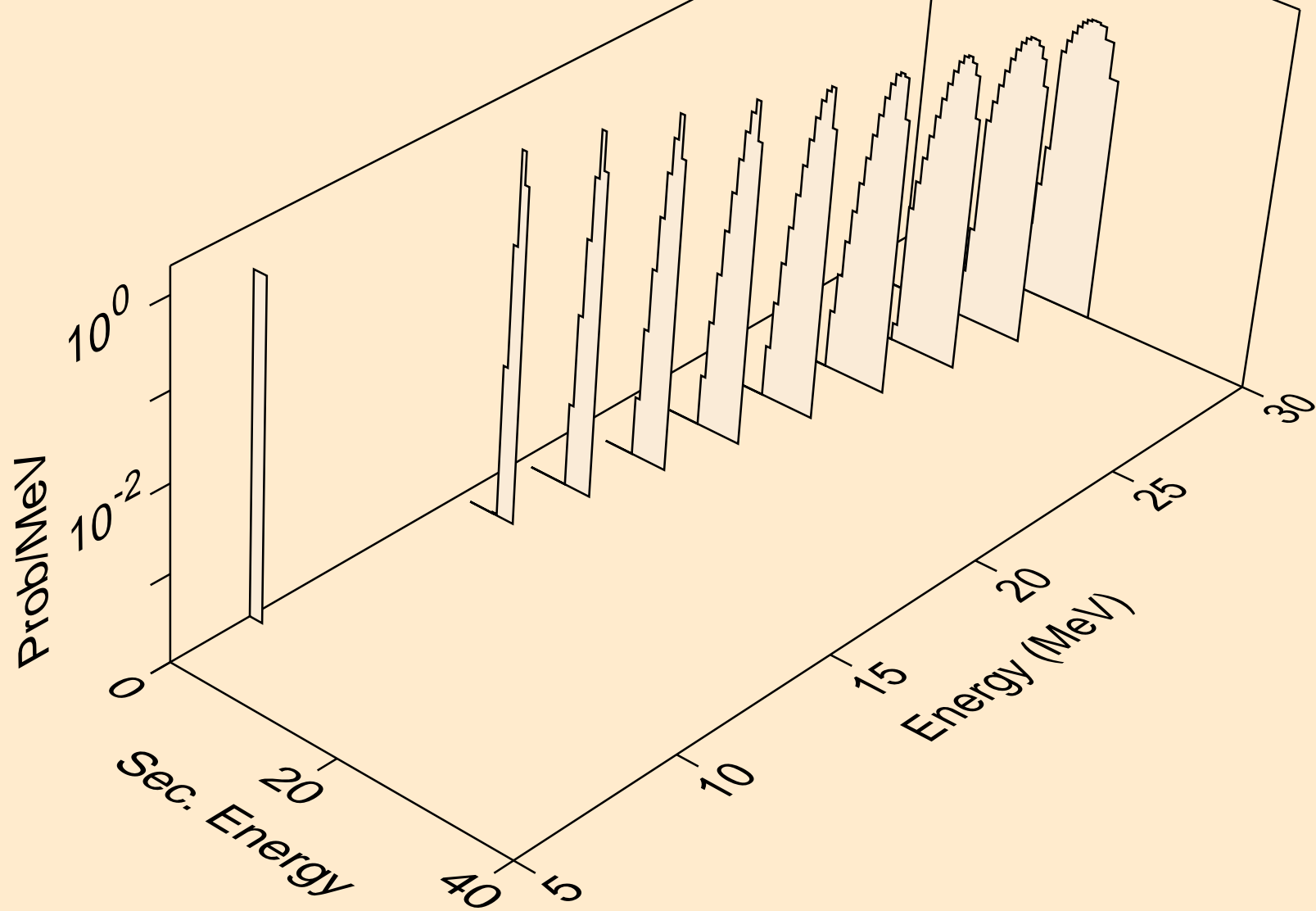




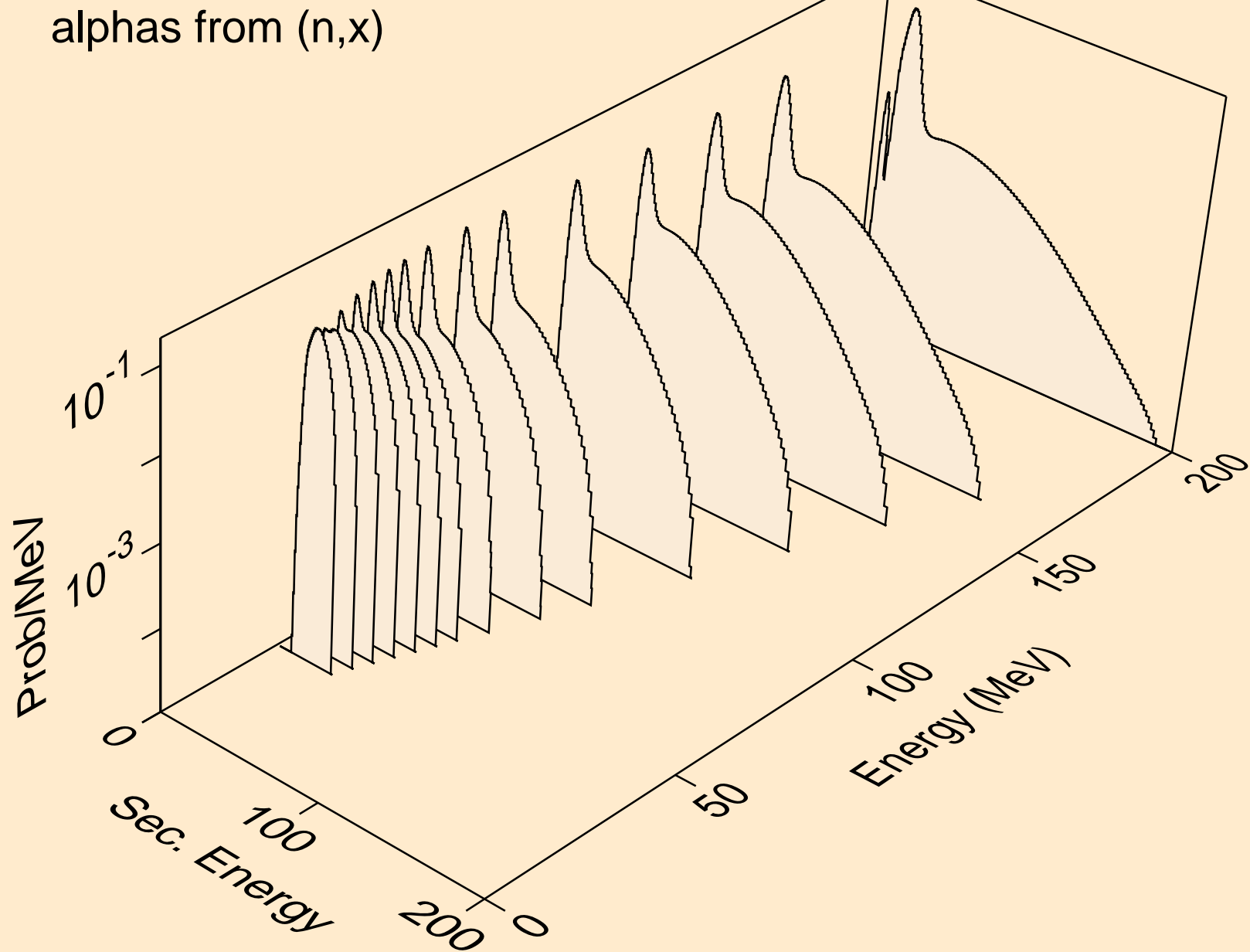
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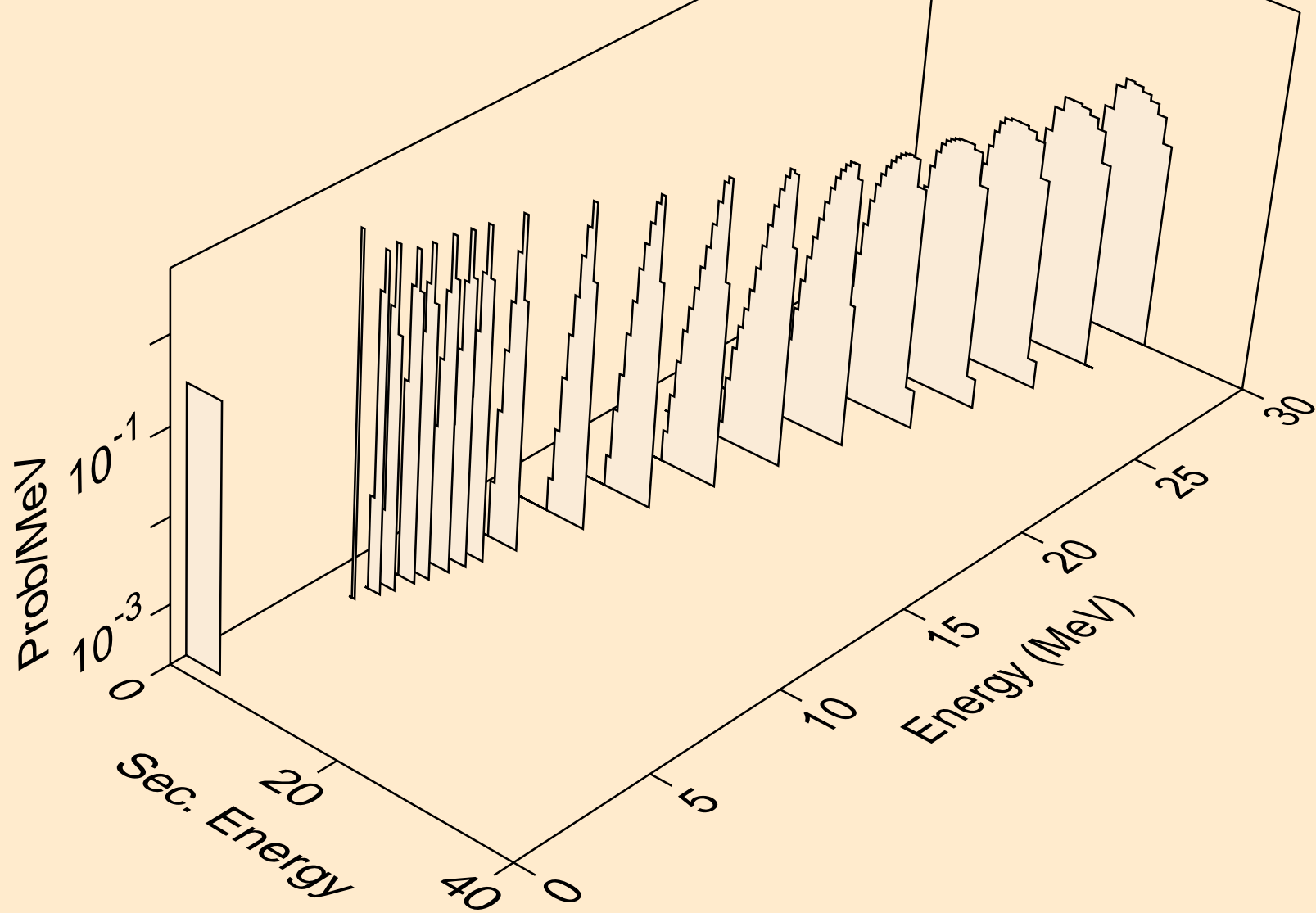
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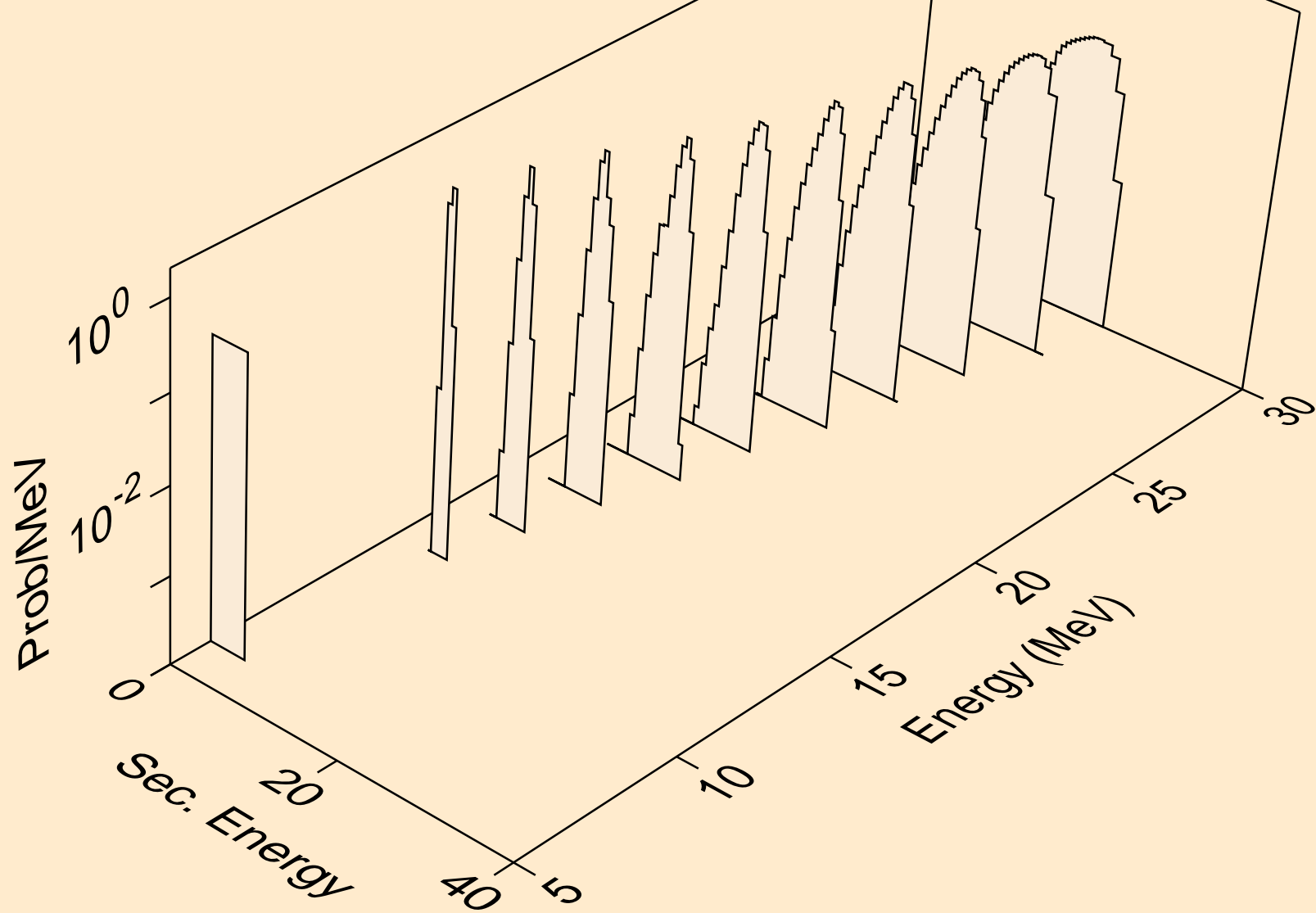
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



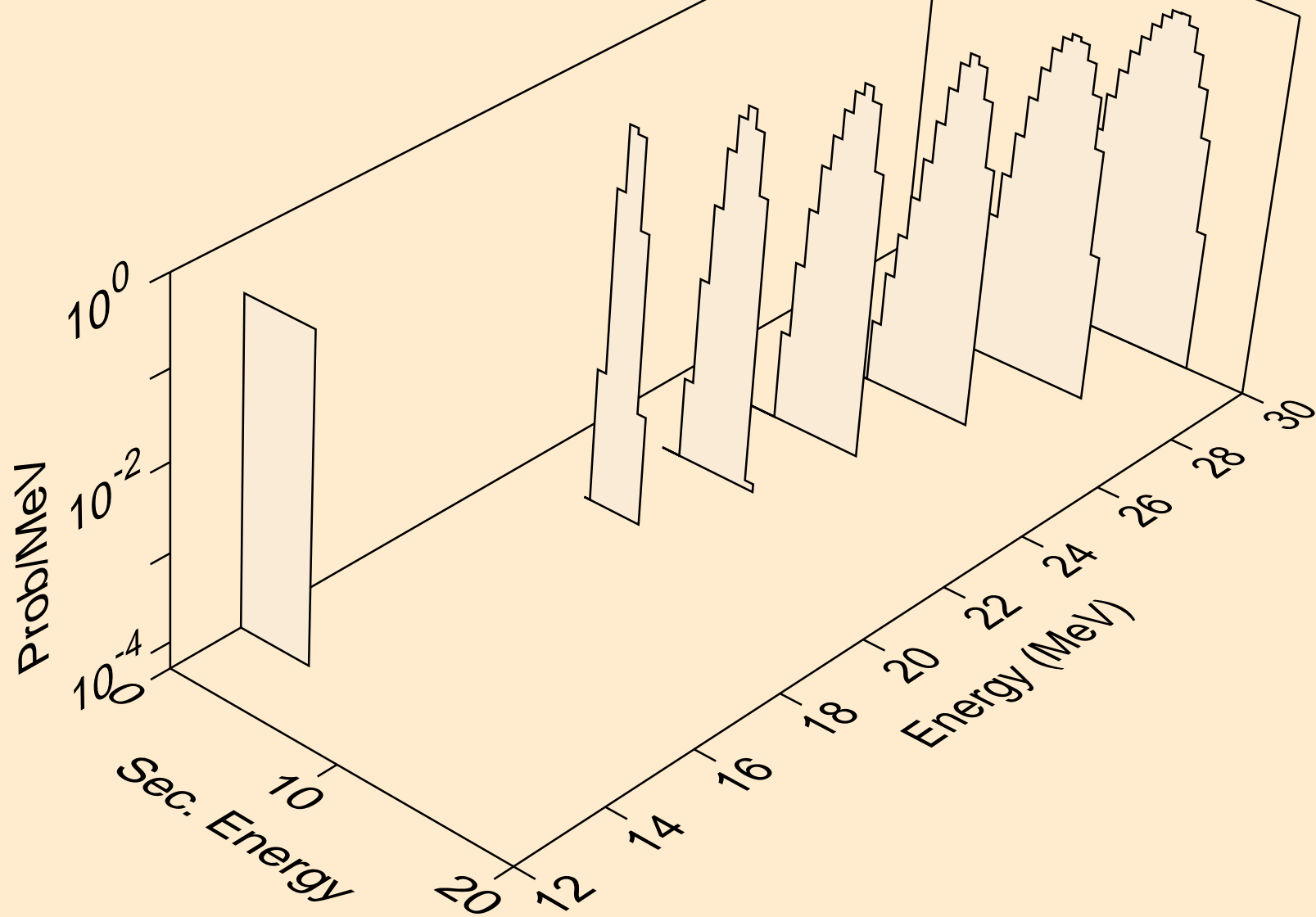
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



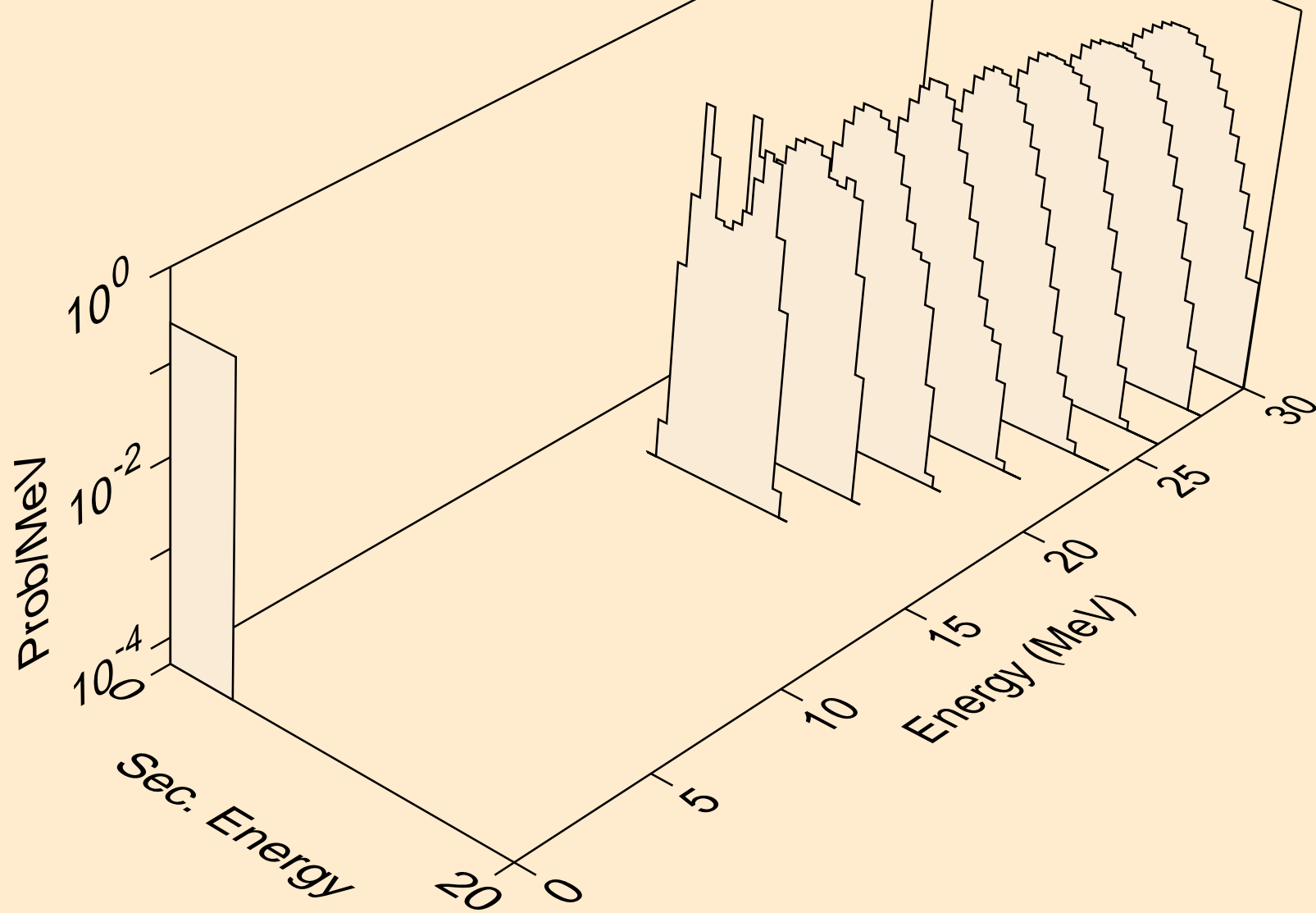
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alphas from (n,2n)a



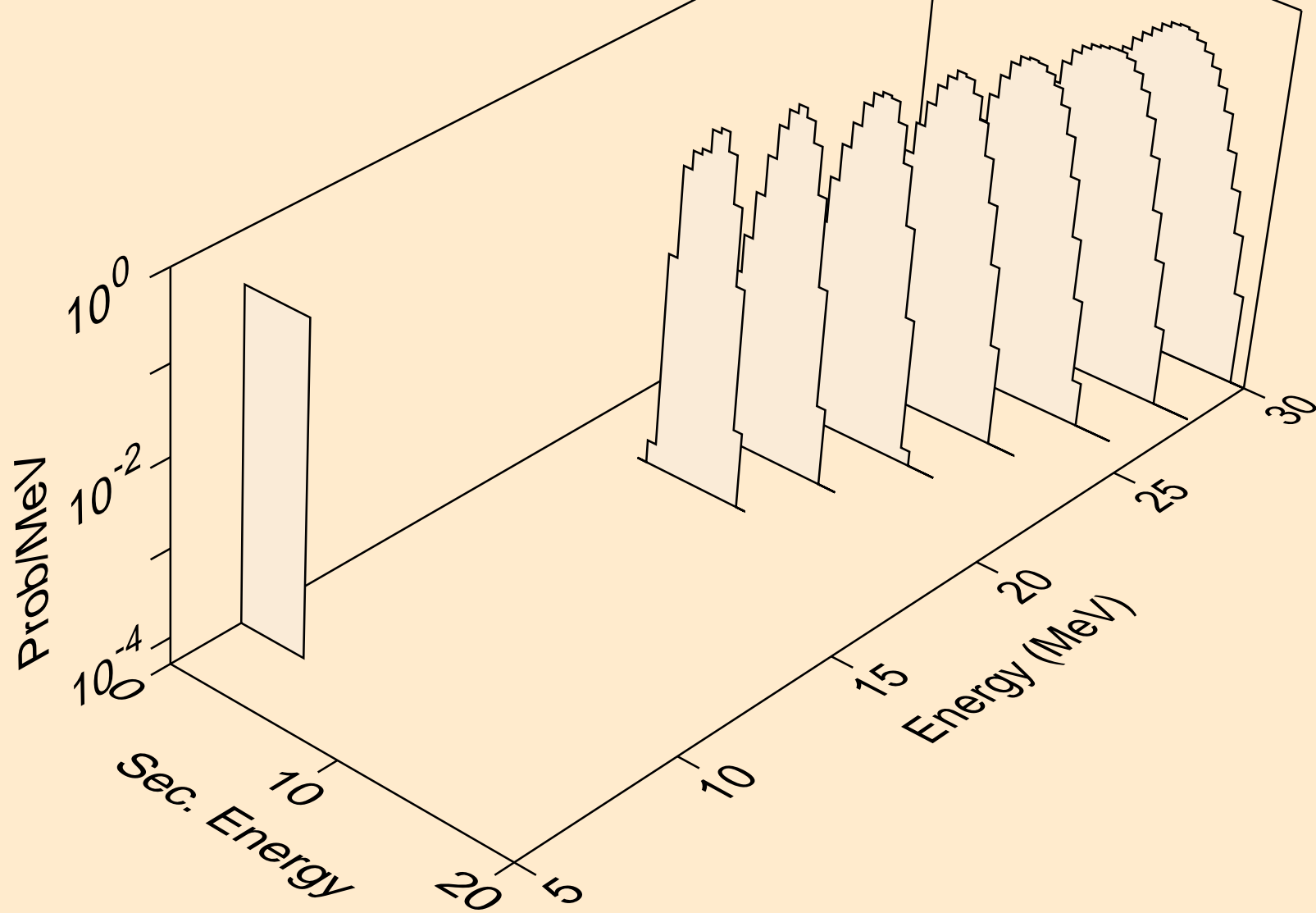
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alphas from (n,3n)a



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)2a

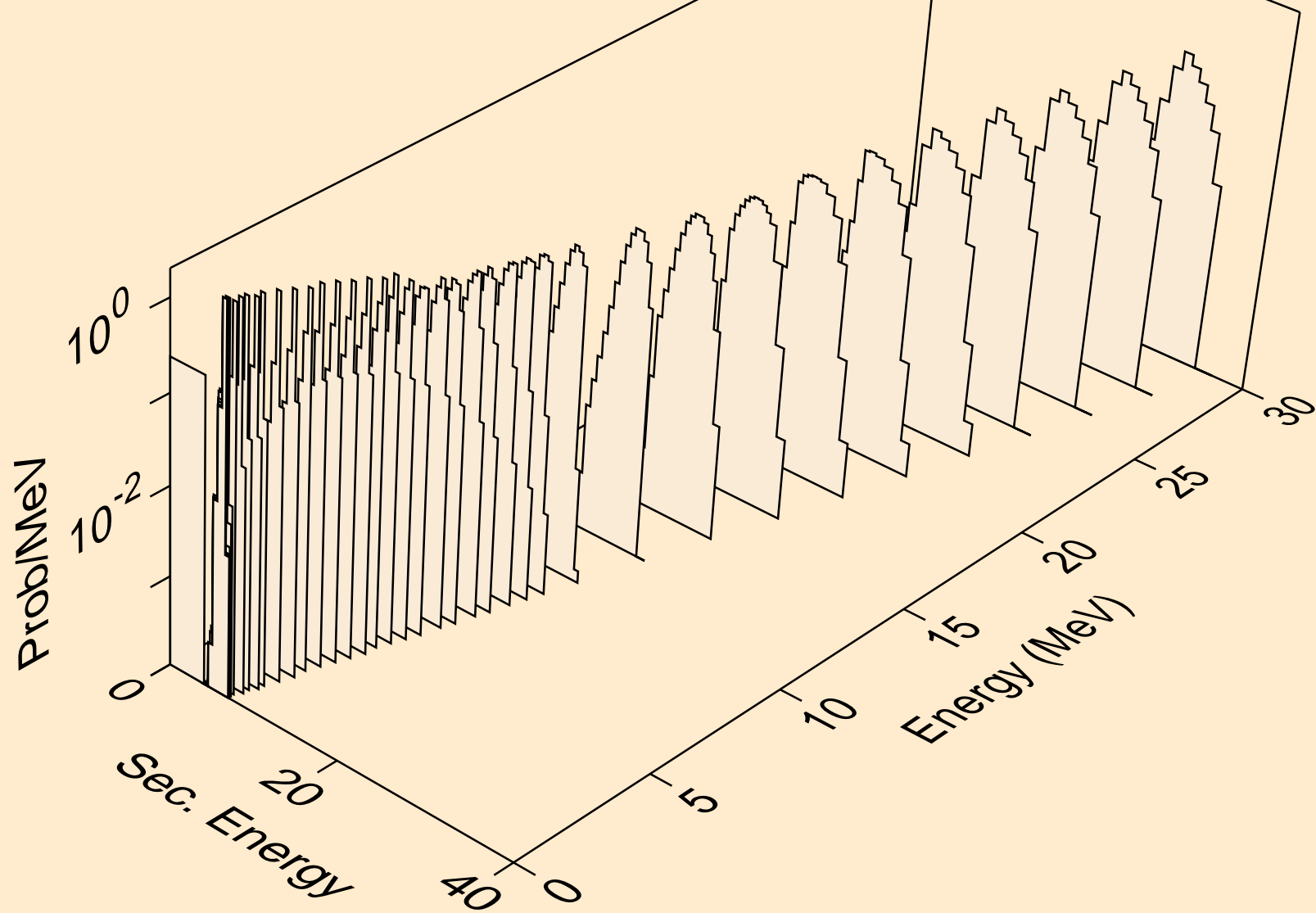


EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)

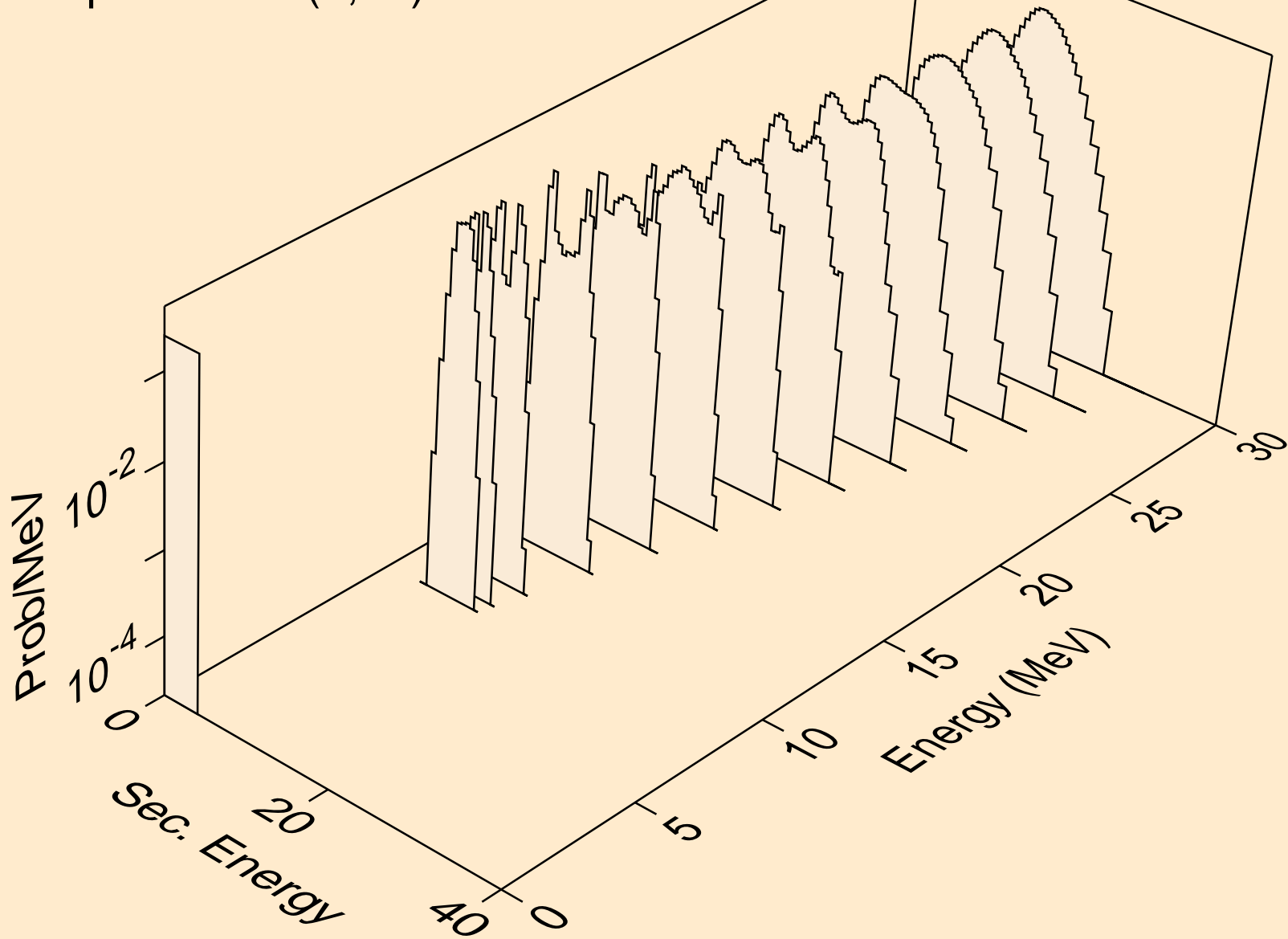




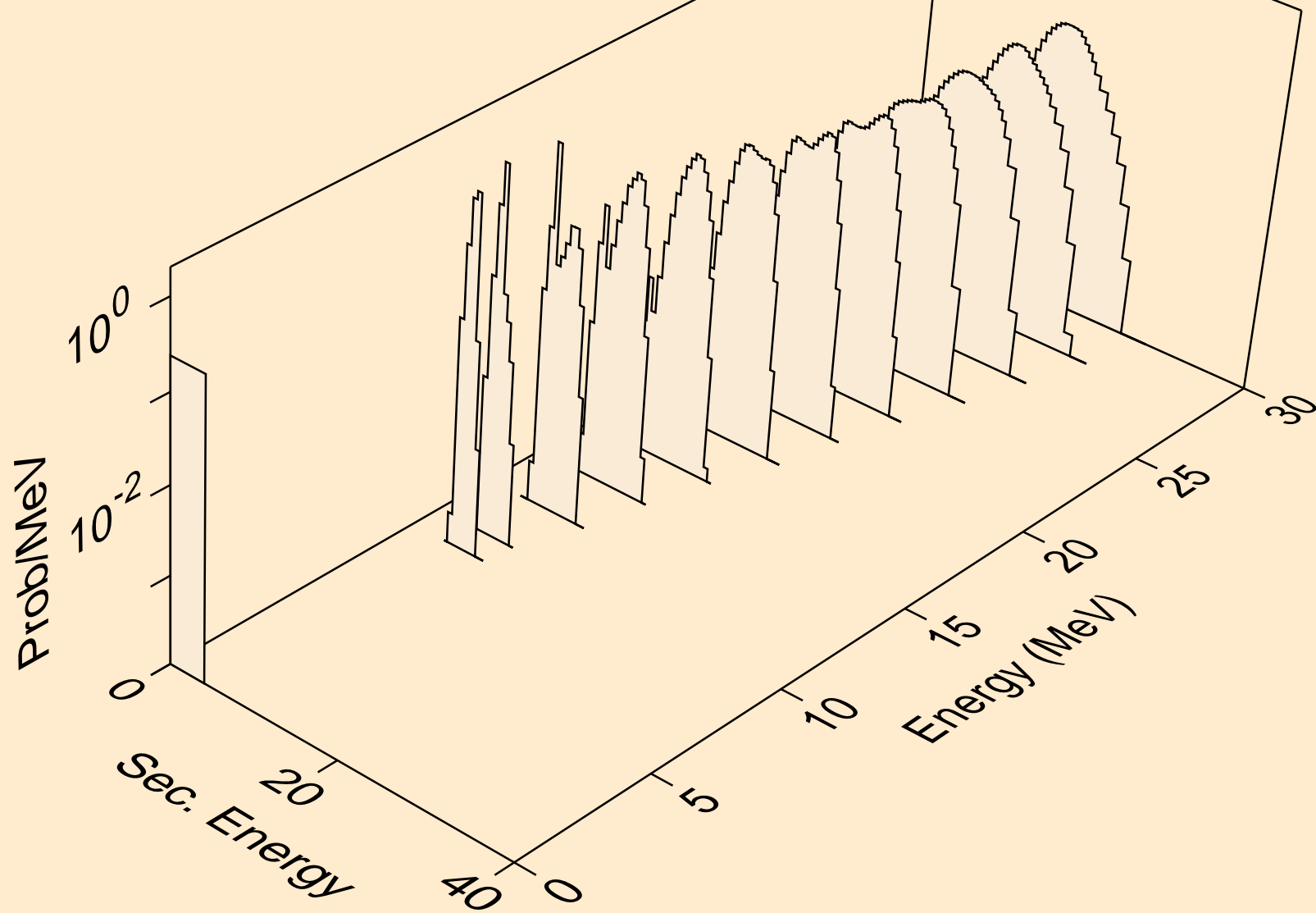
EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,pa)



EU154 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

