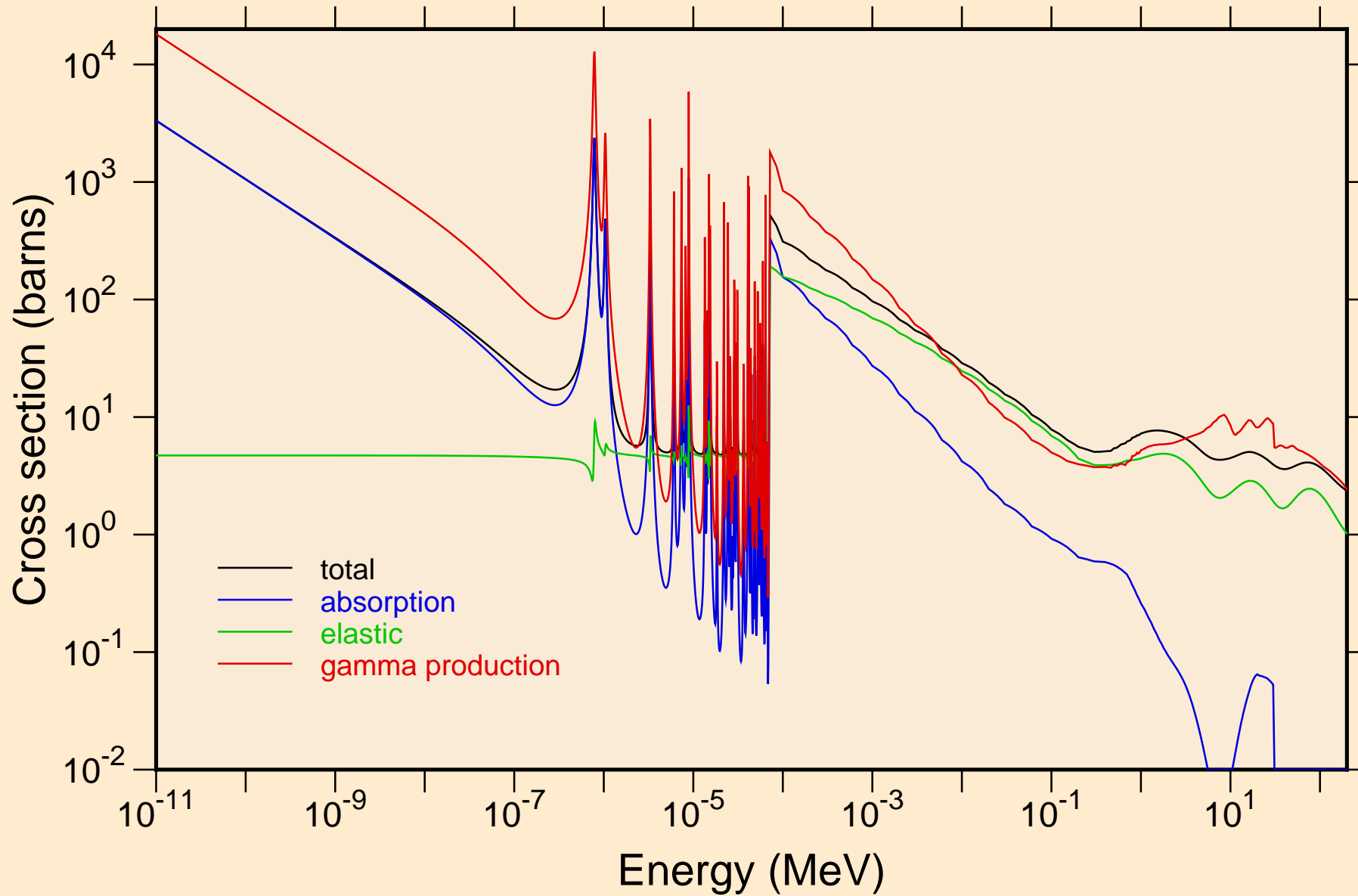
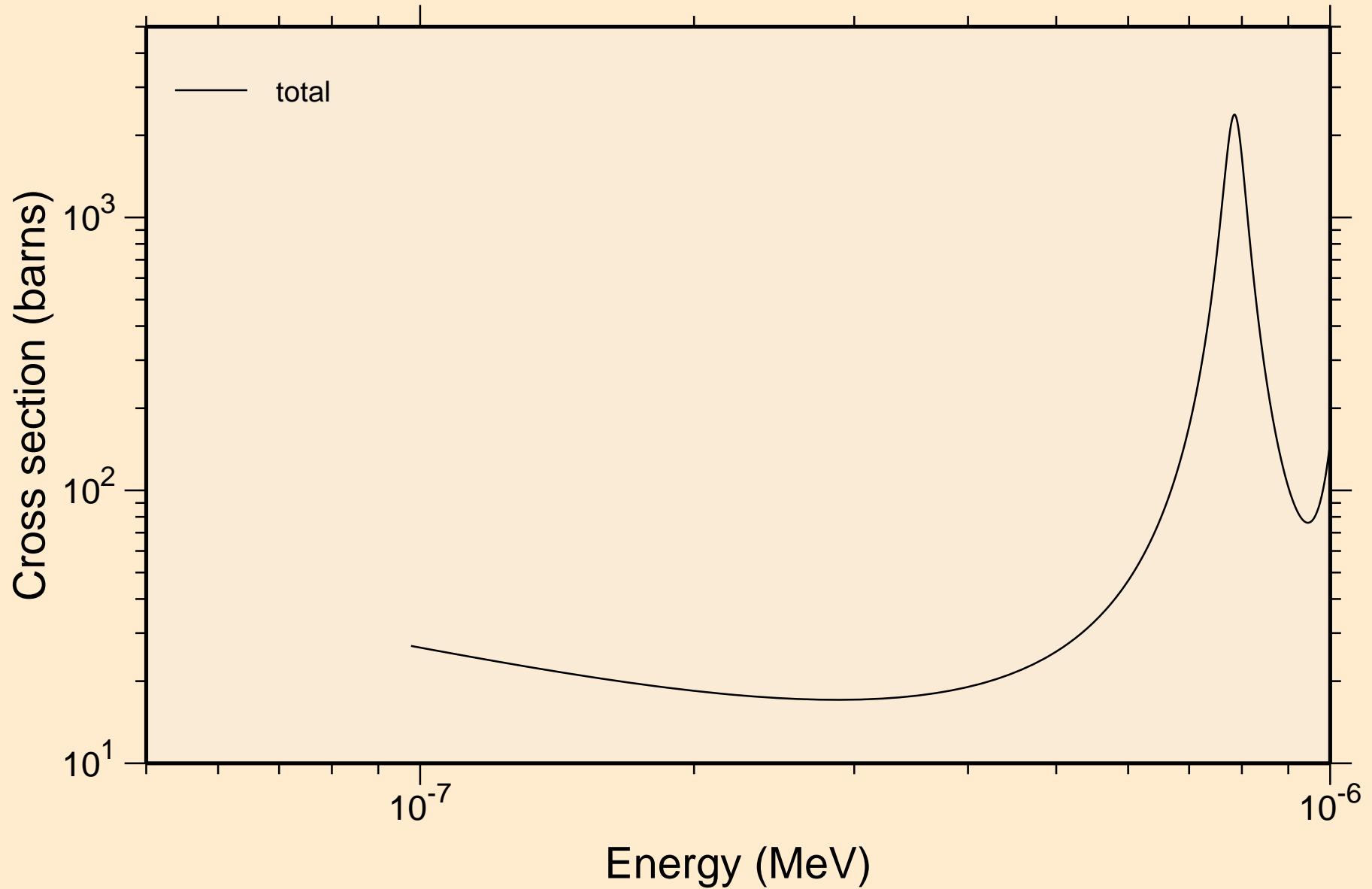


# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

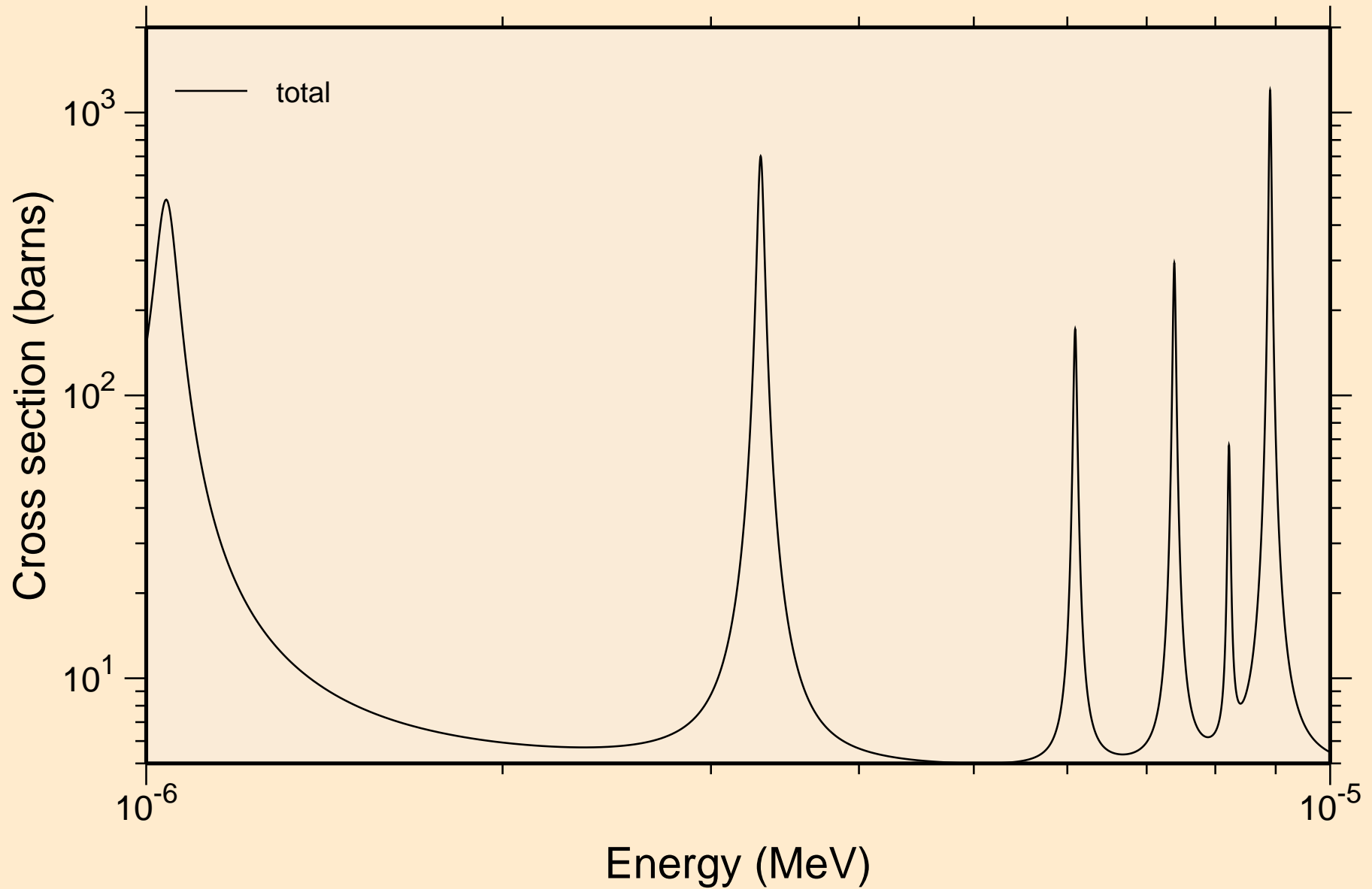
## Principal cross sections



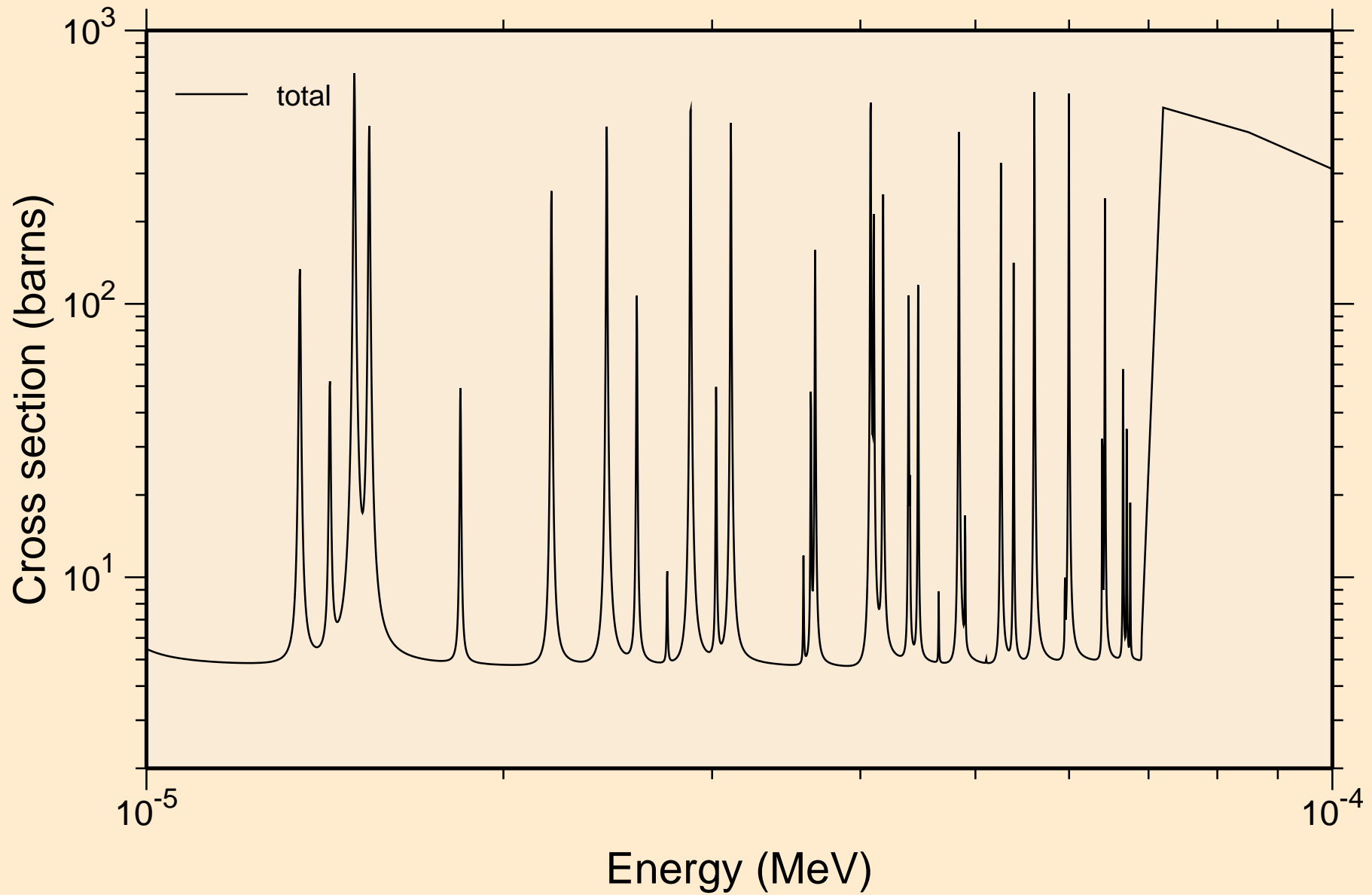
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



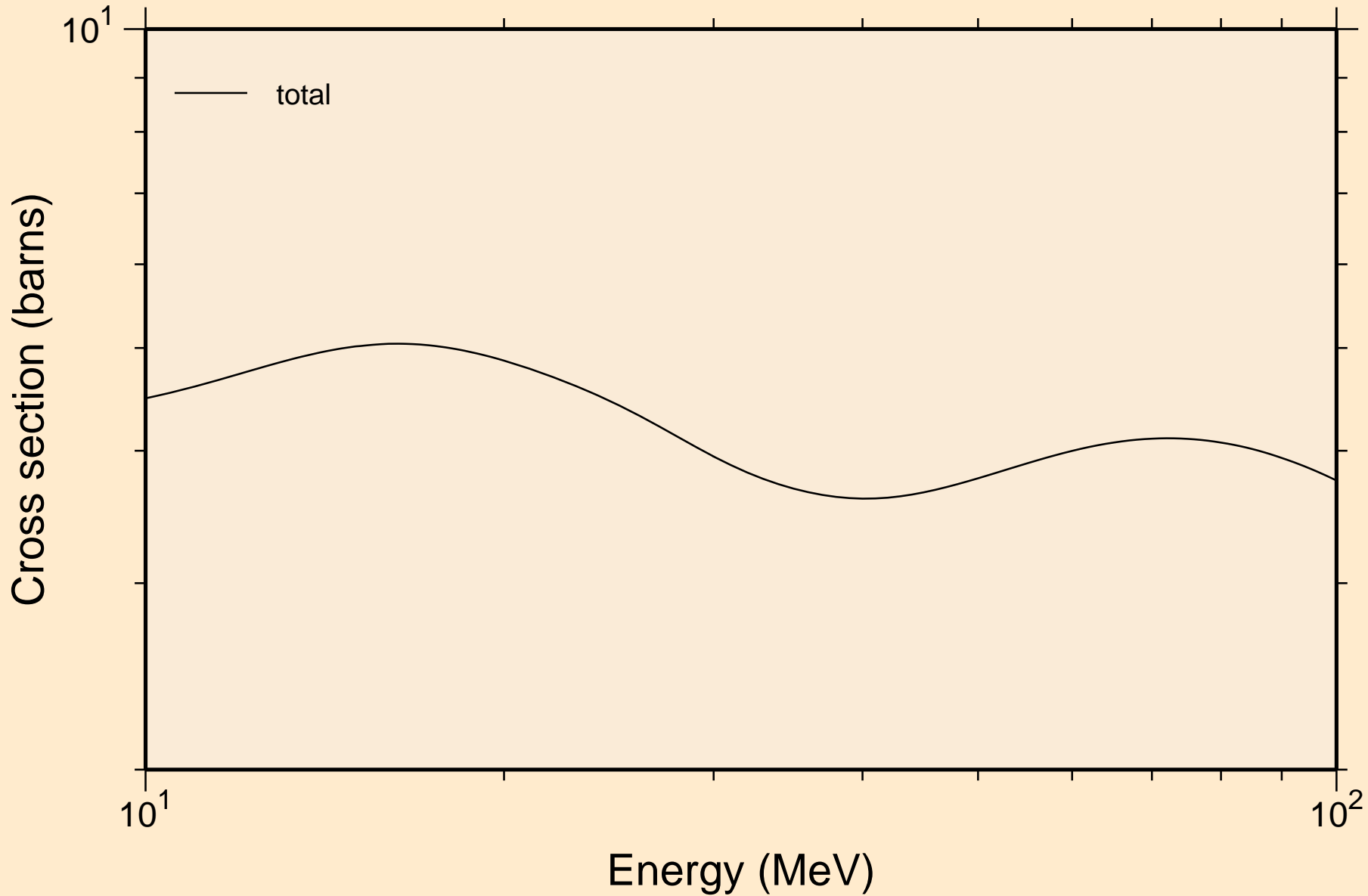
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



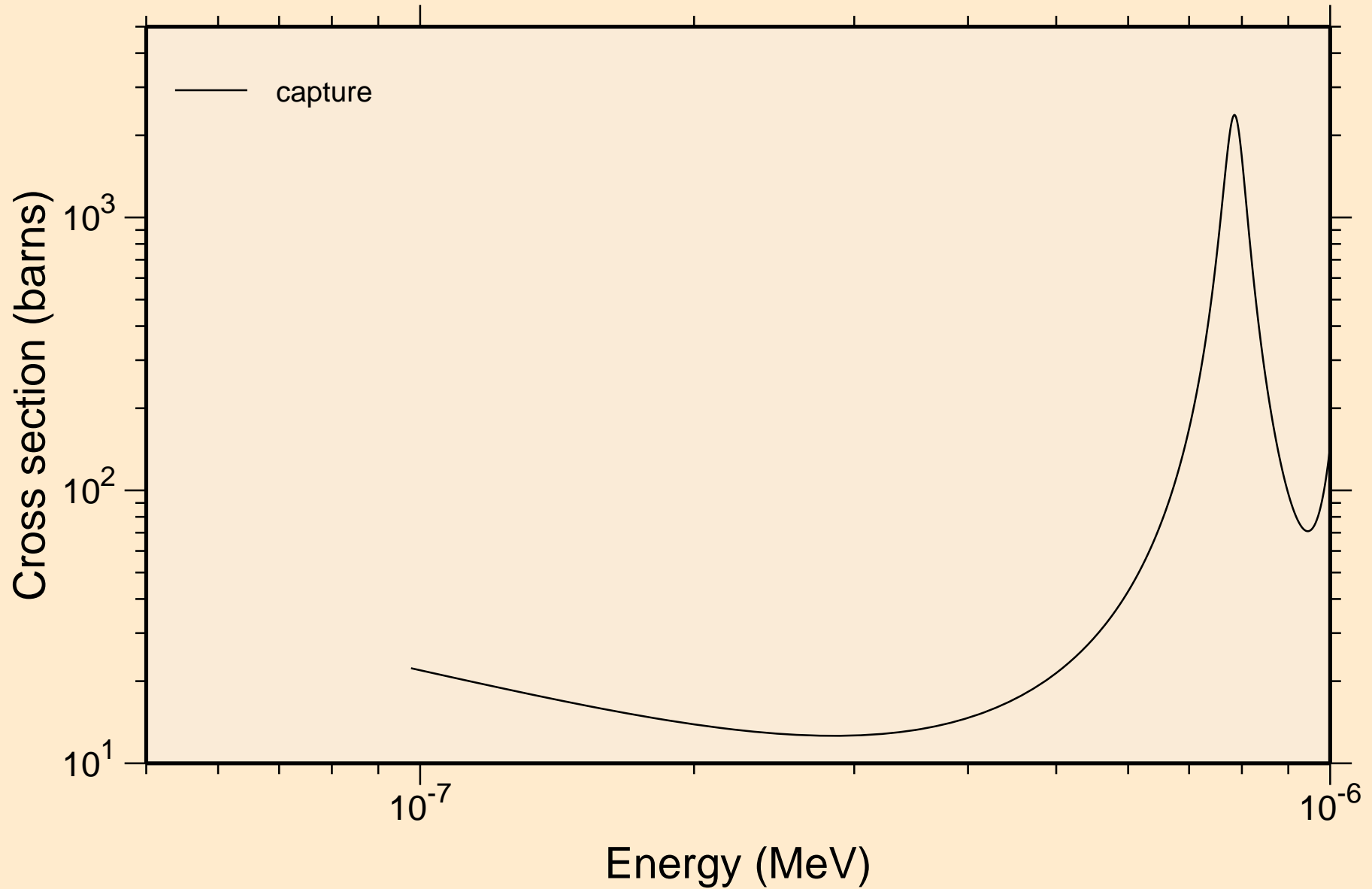
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resonance total cross section



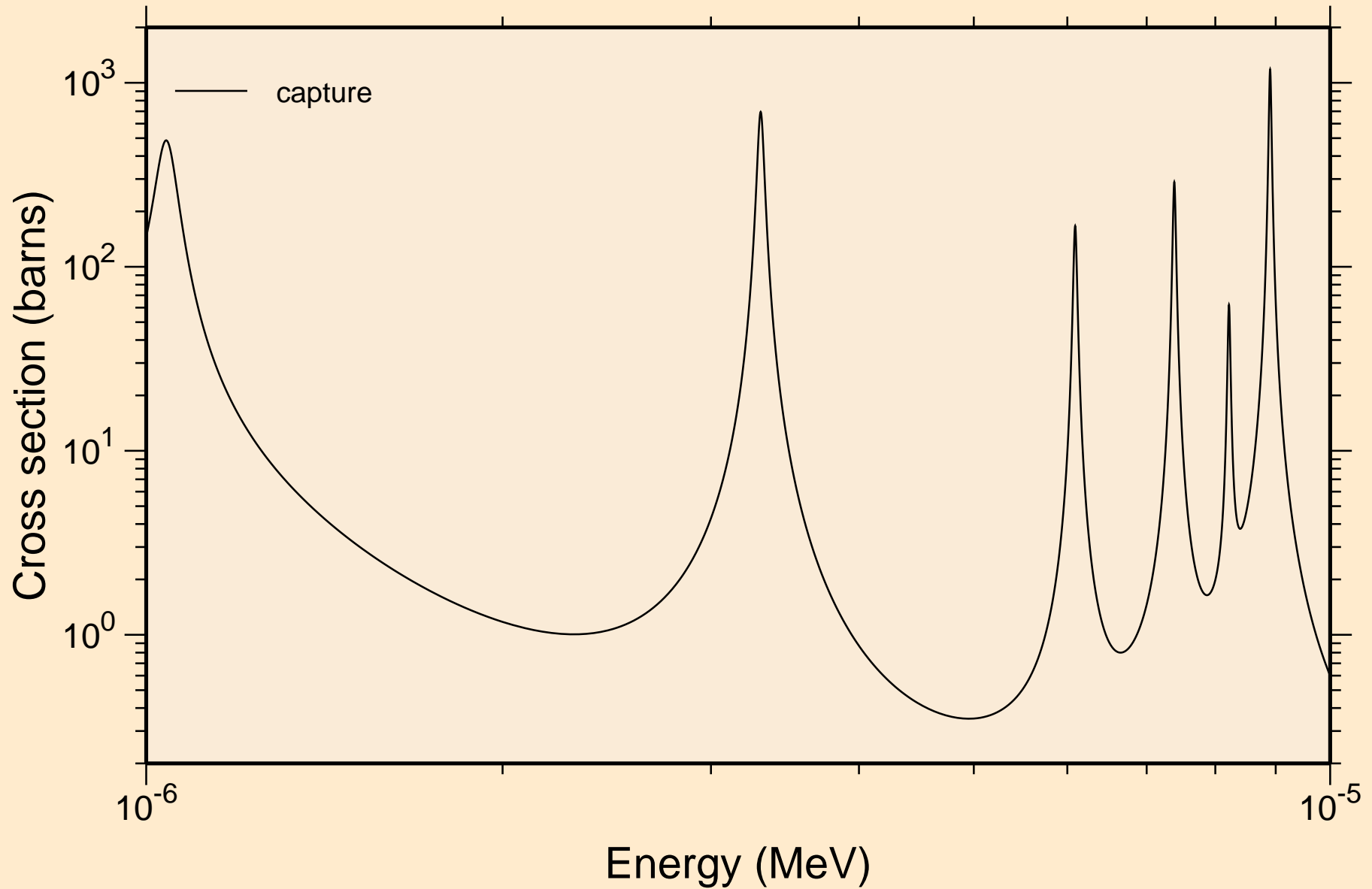
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



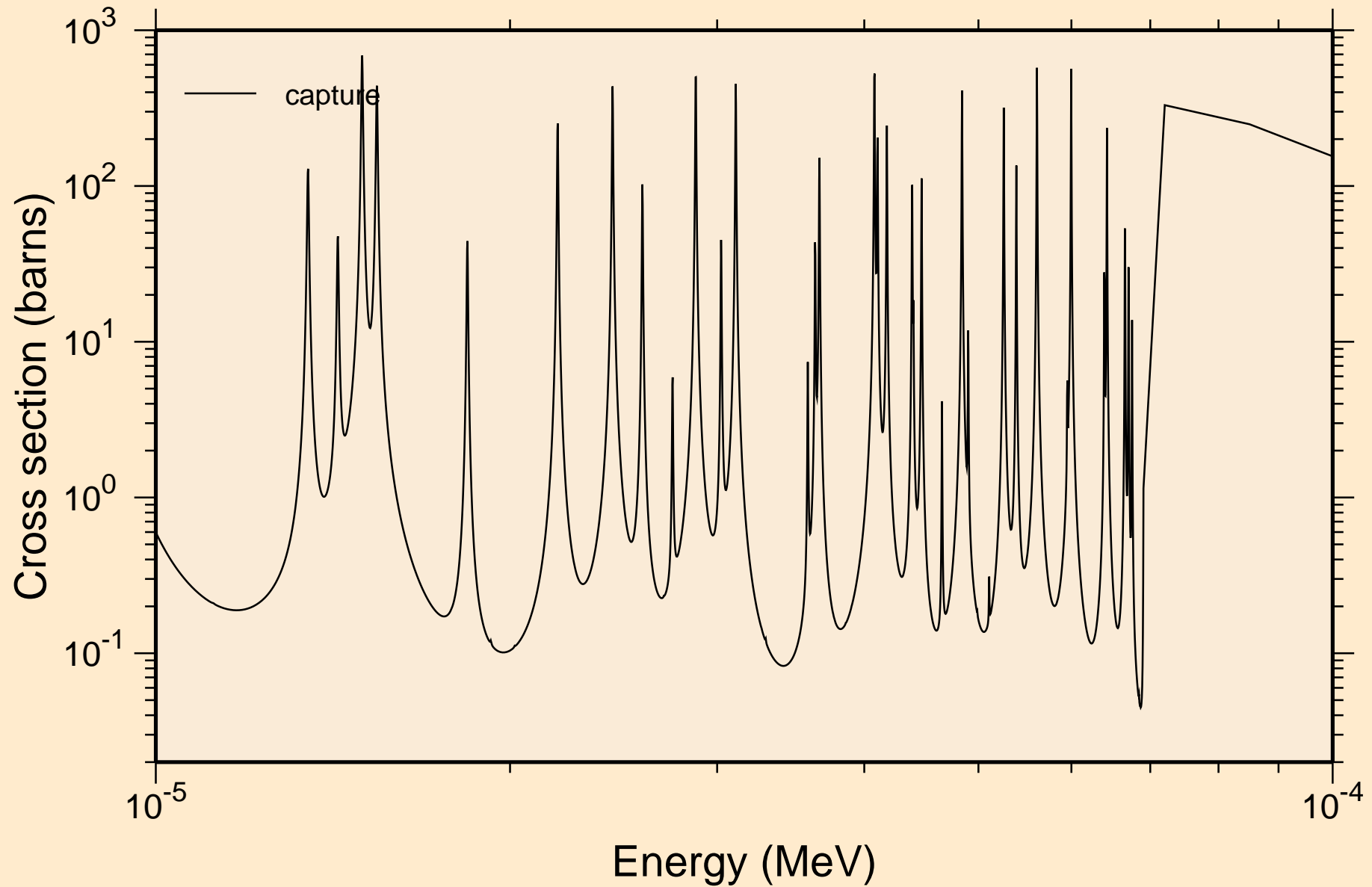
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

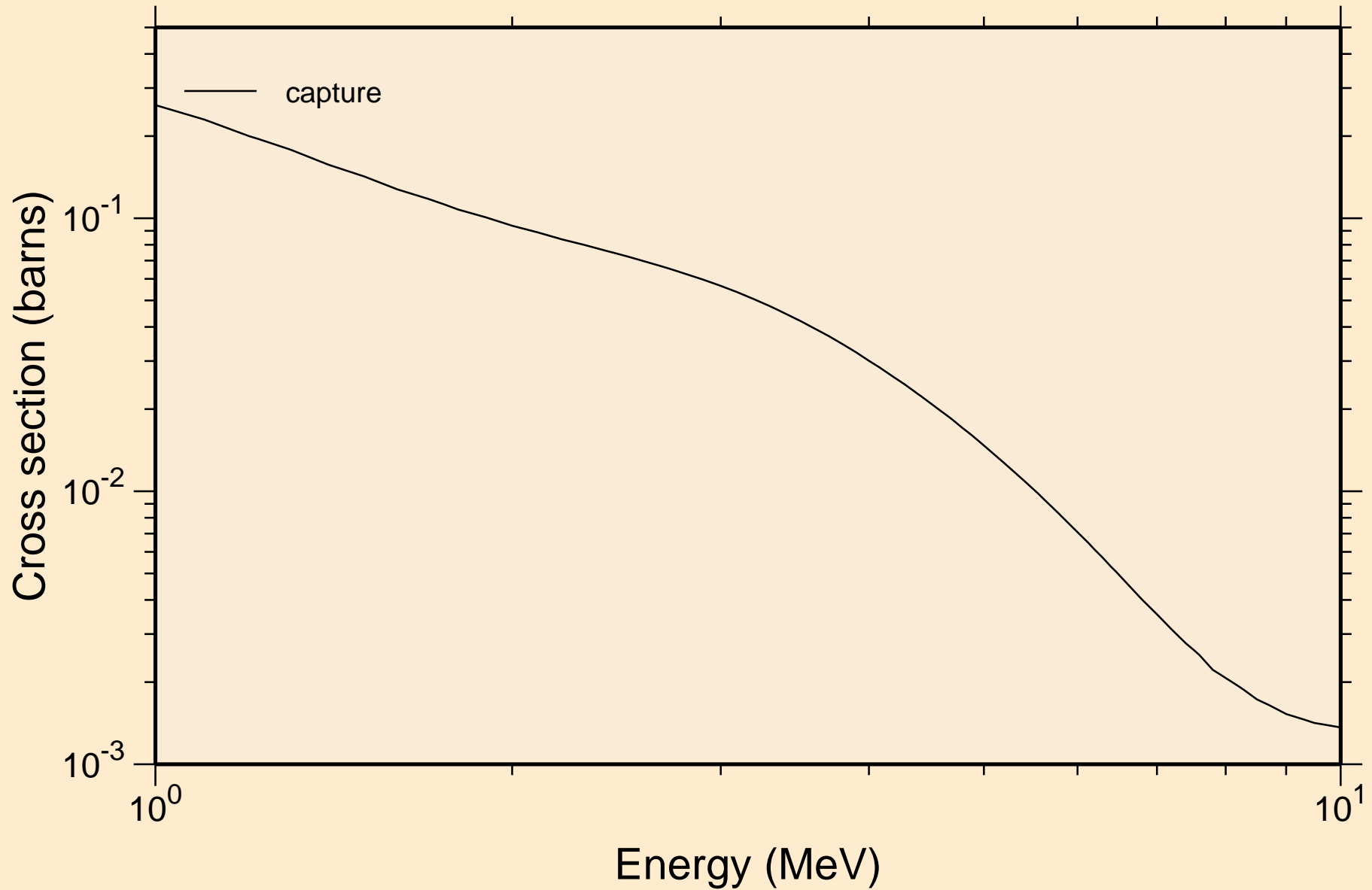


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

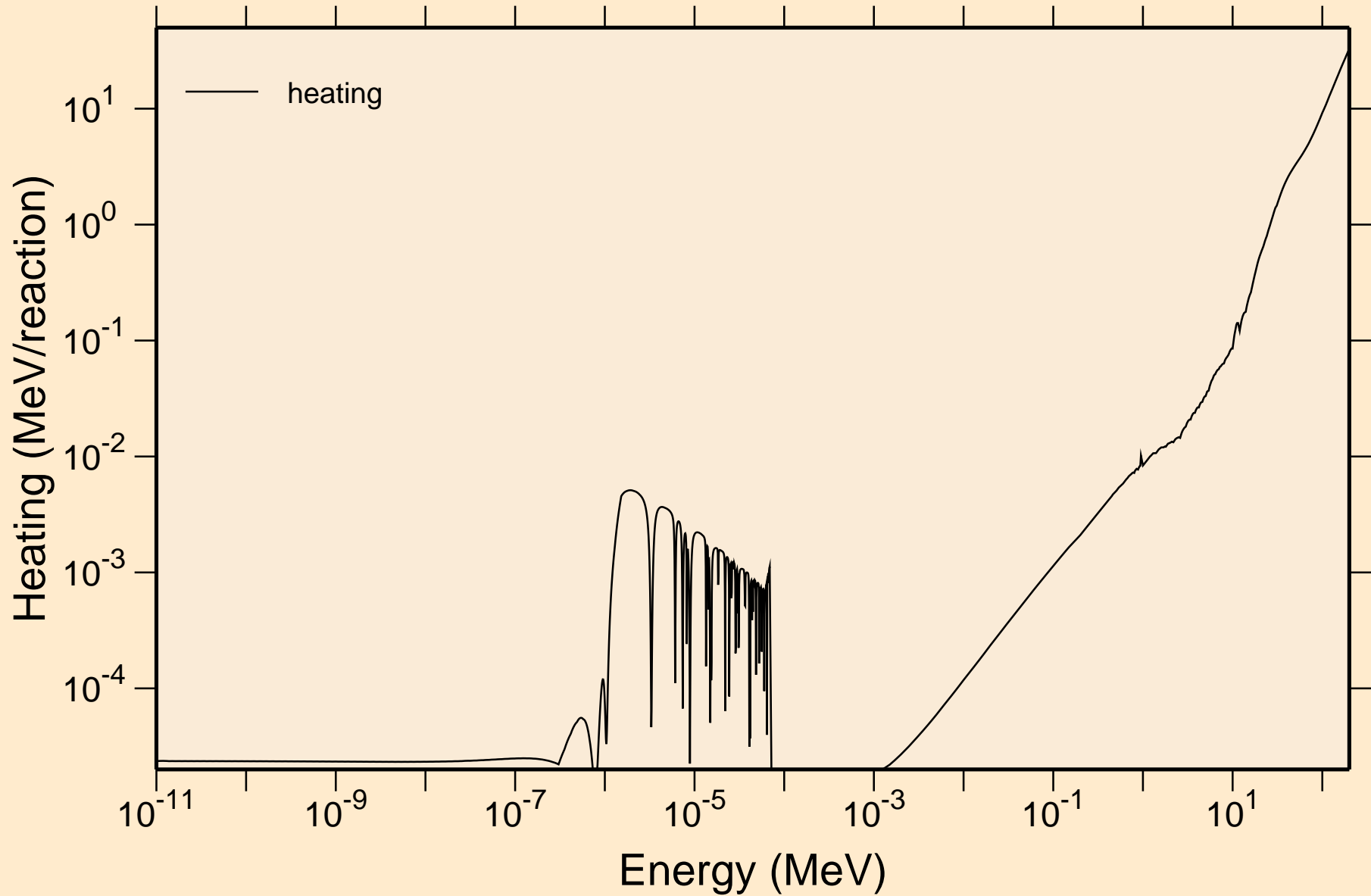




EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

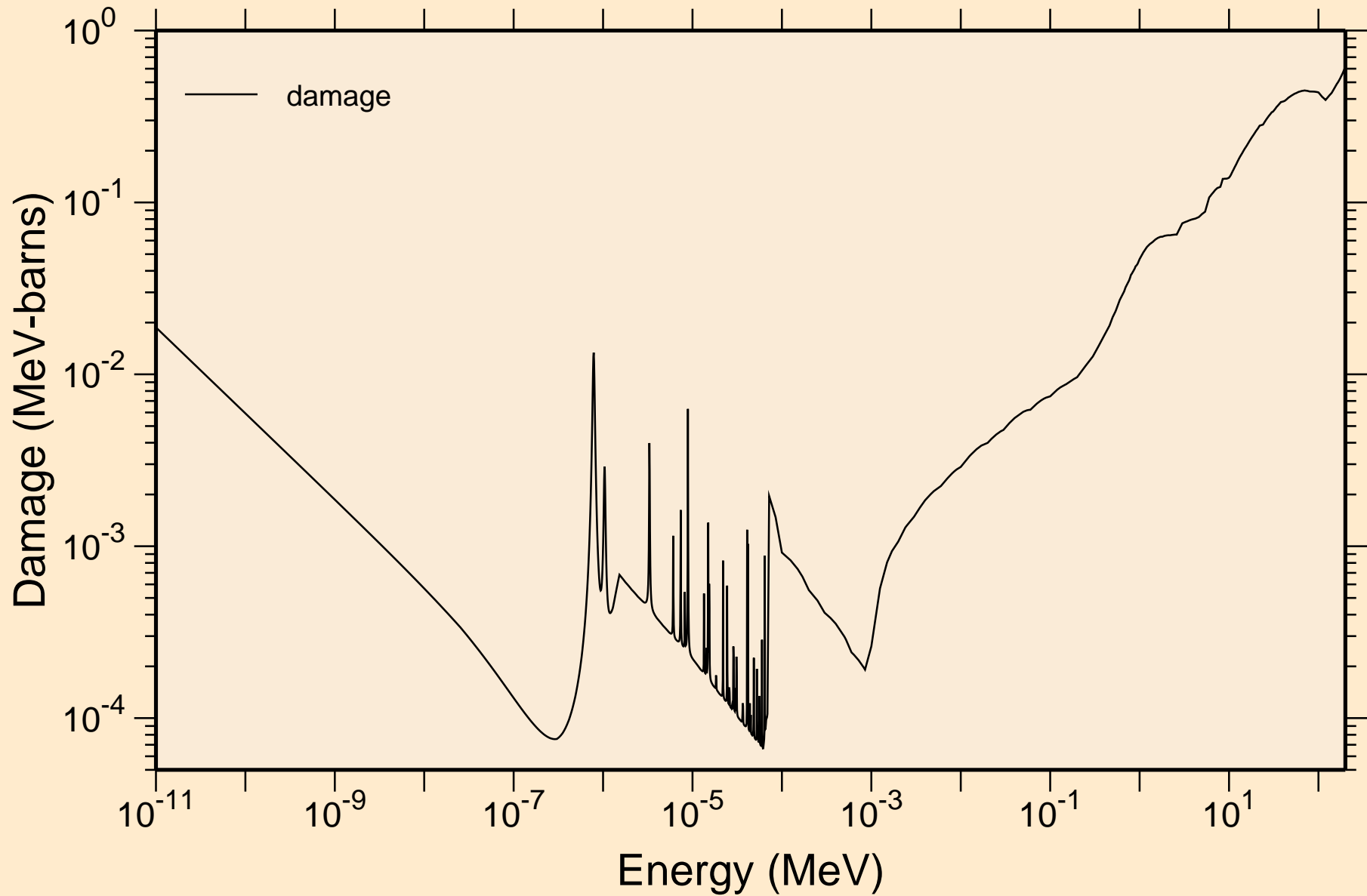


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



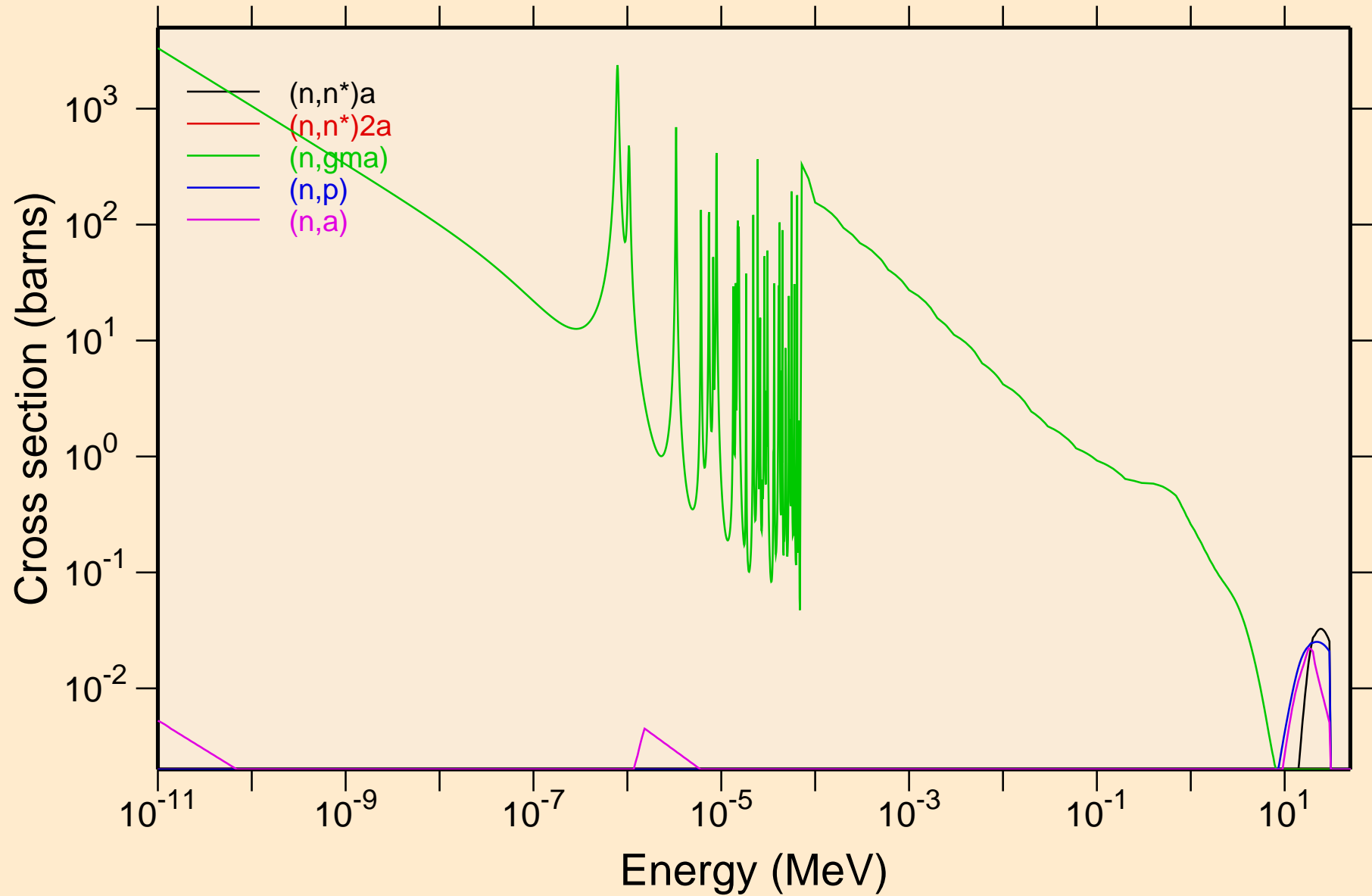
# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage



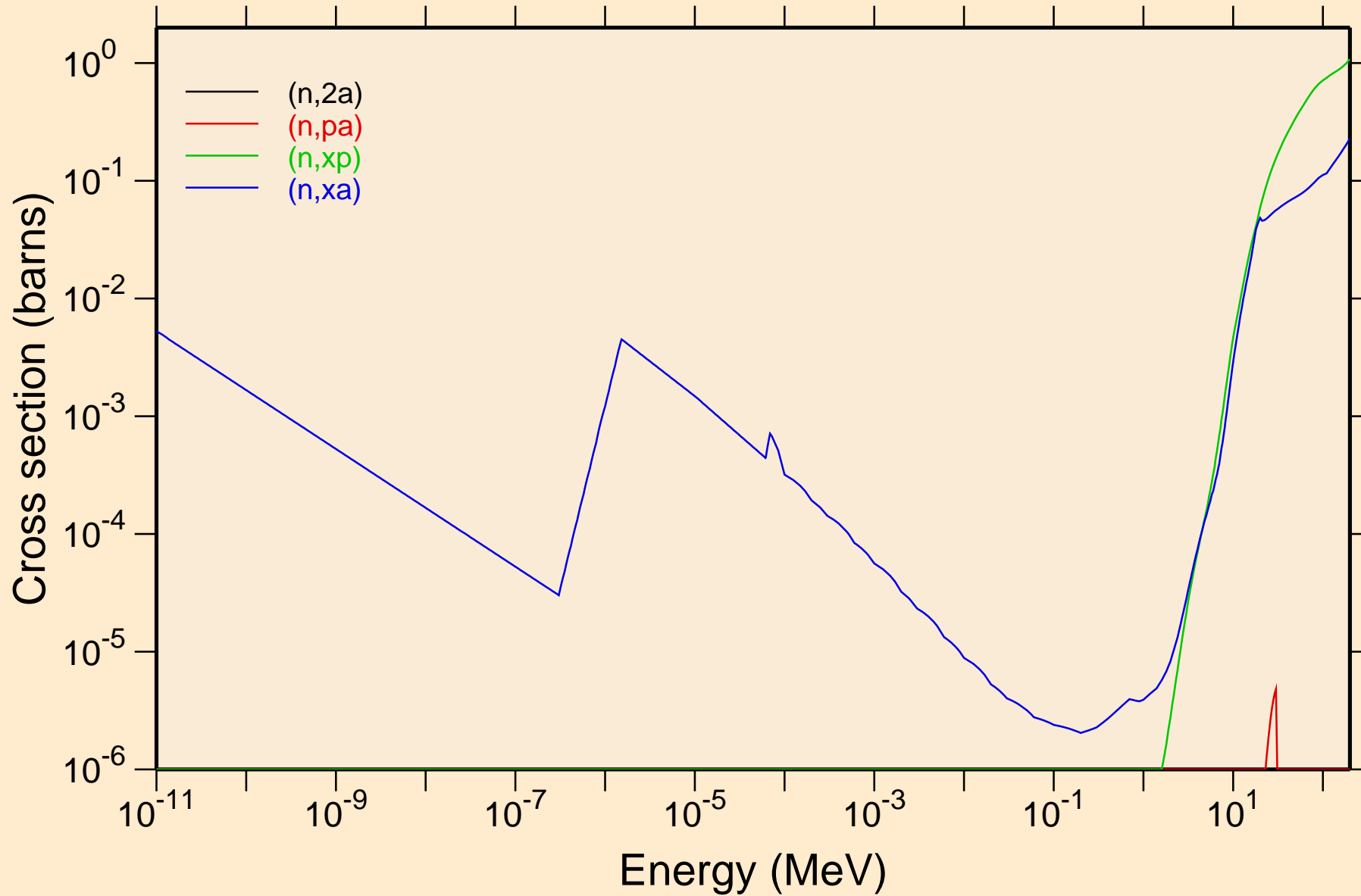
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## Non-threshold reactions



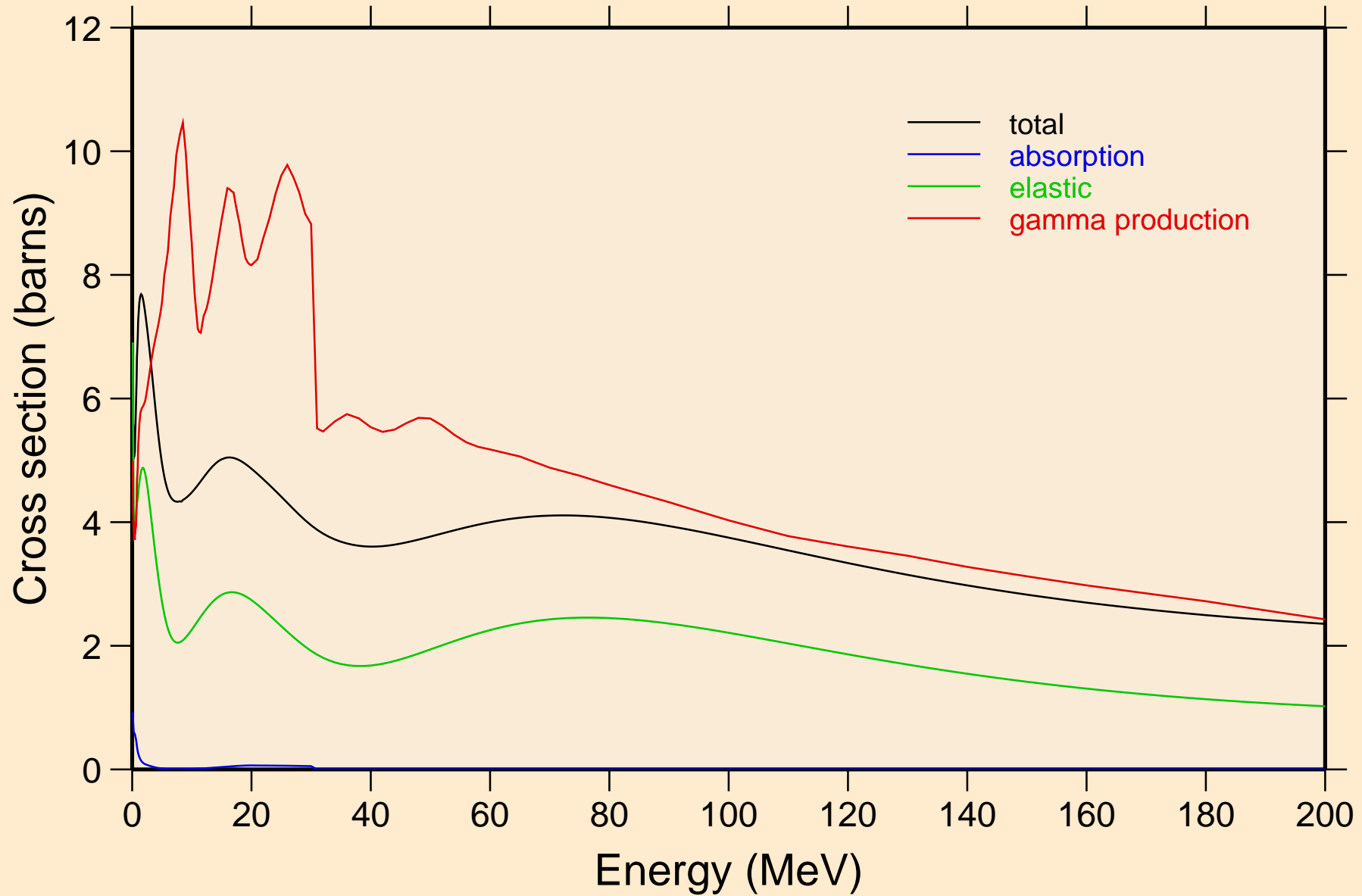
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## Non-threshold reactions



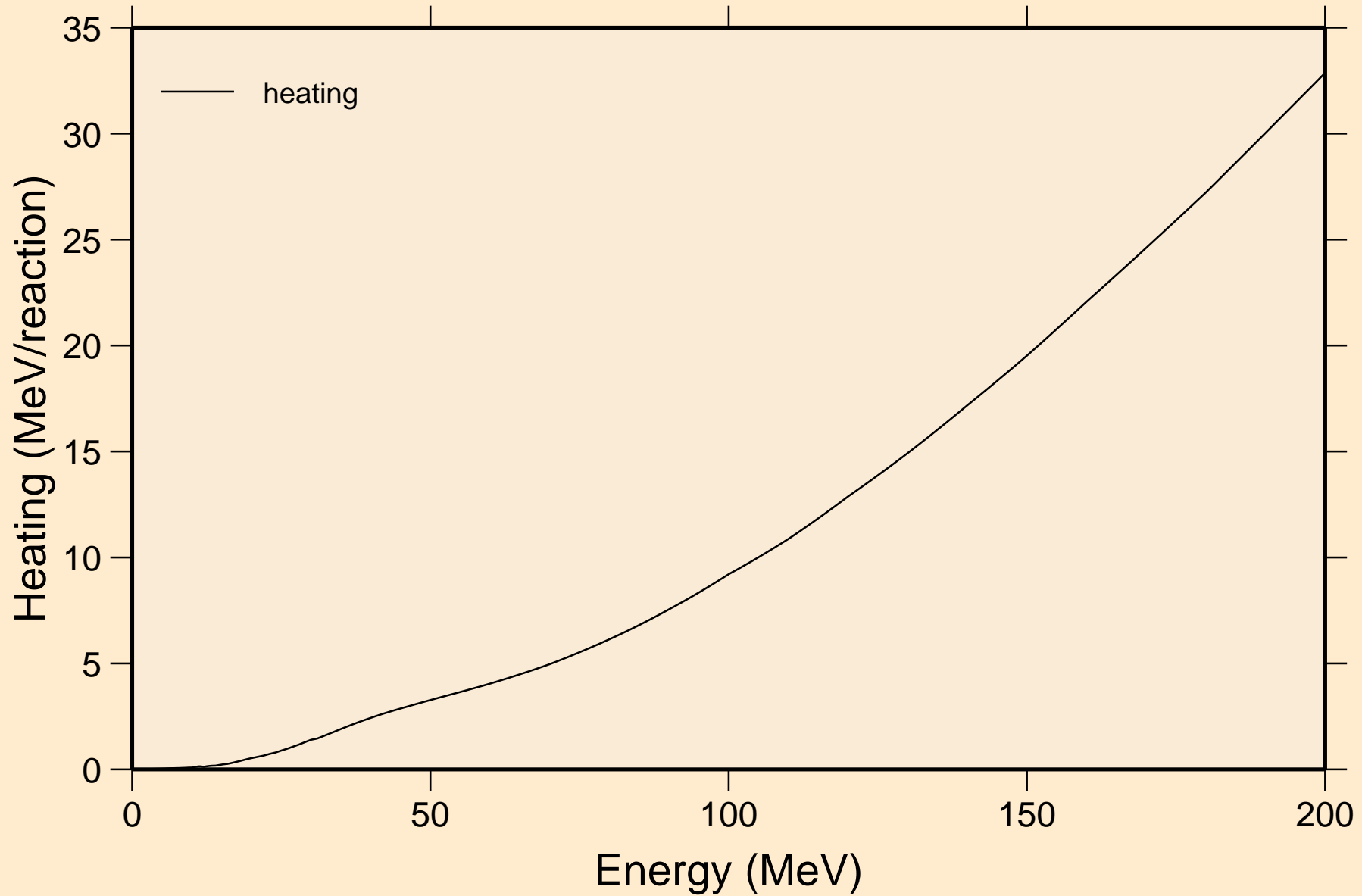
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## Principal cross sections



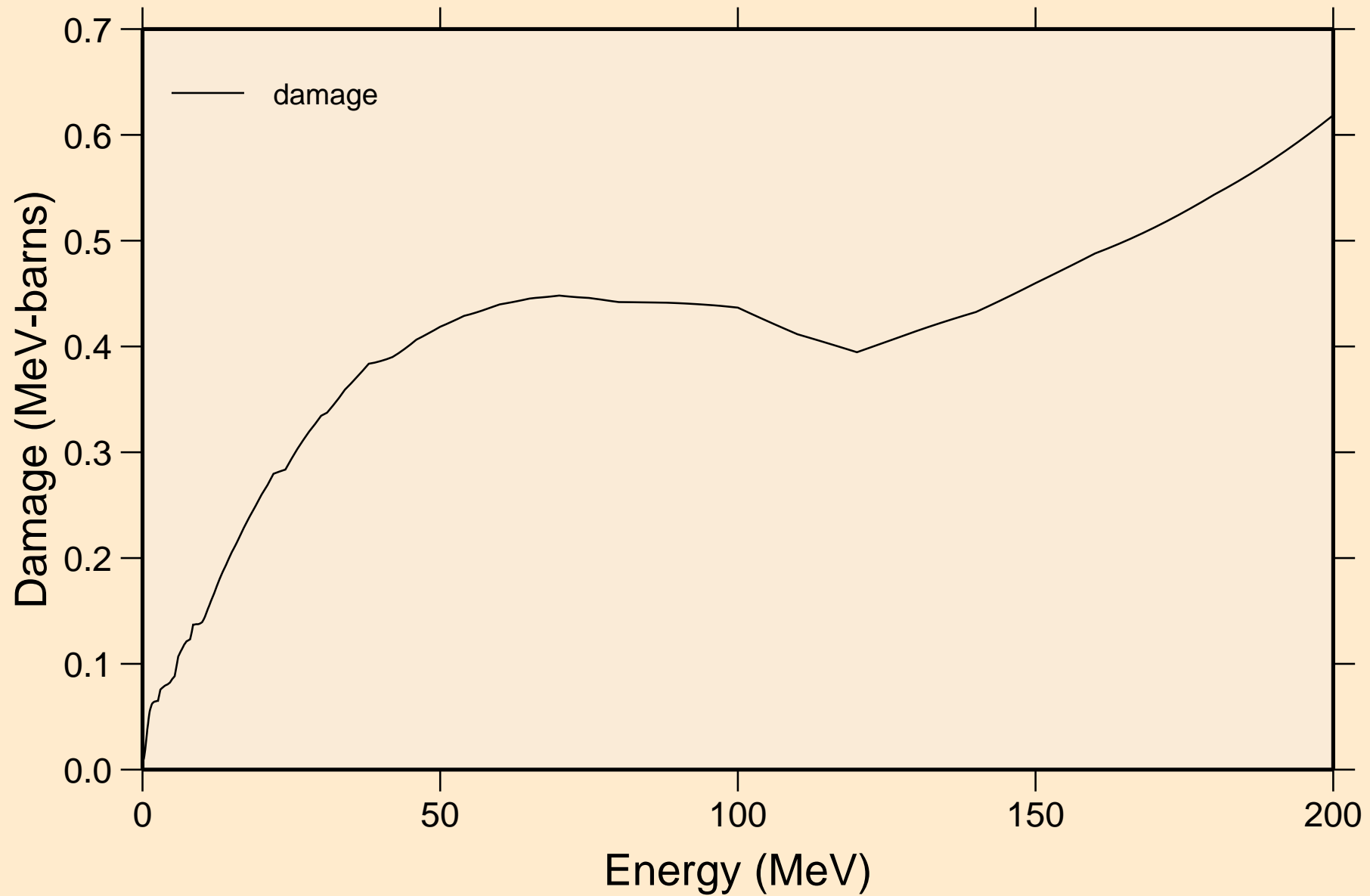
# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

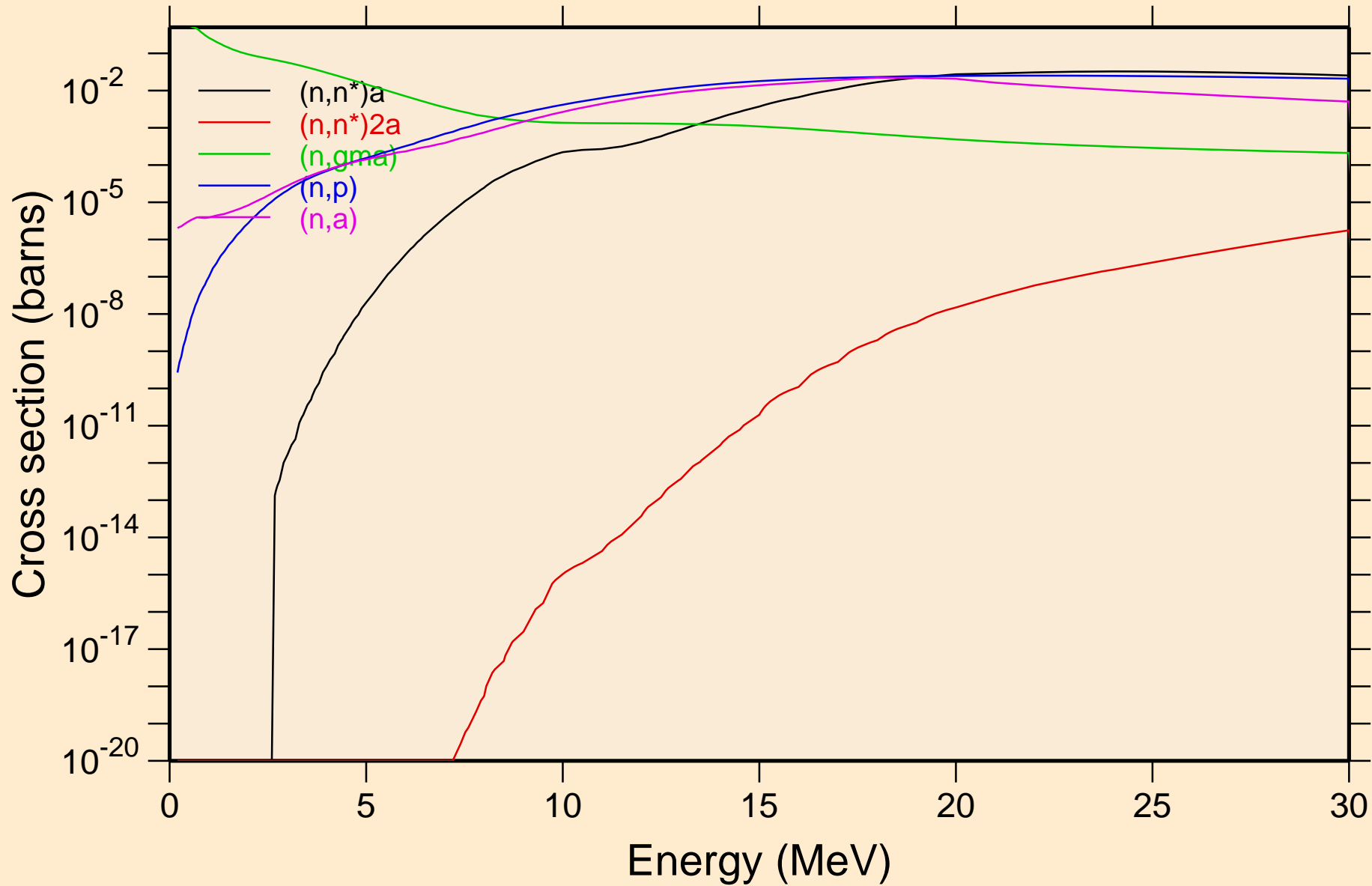
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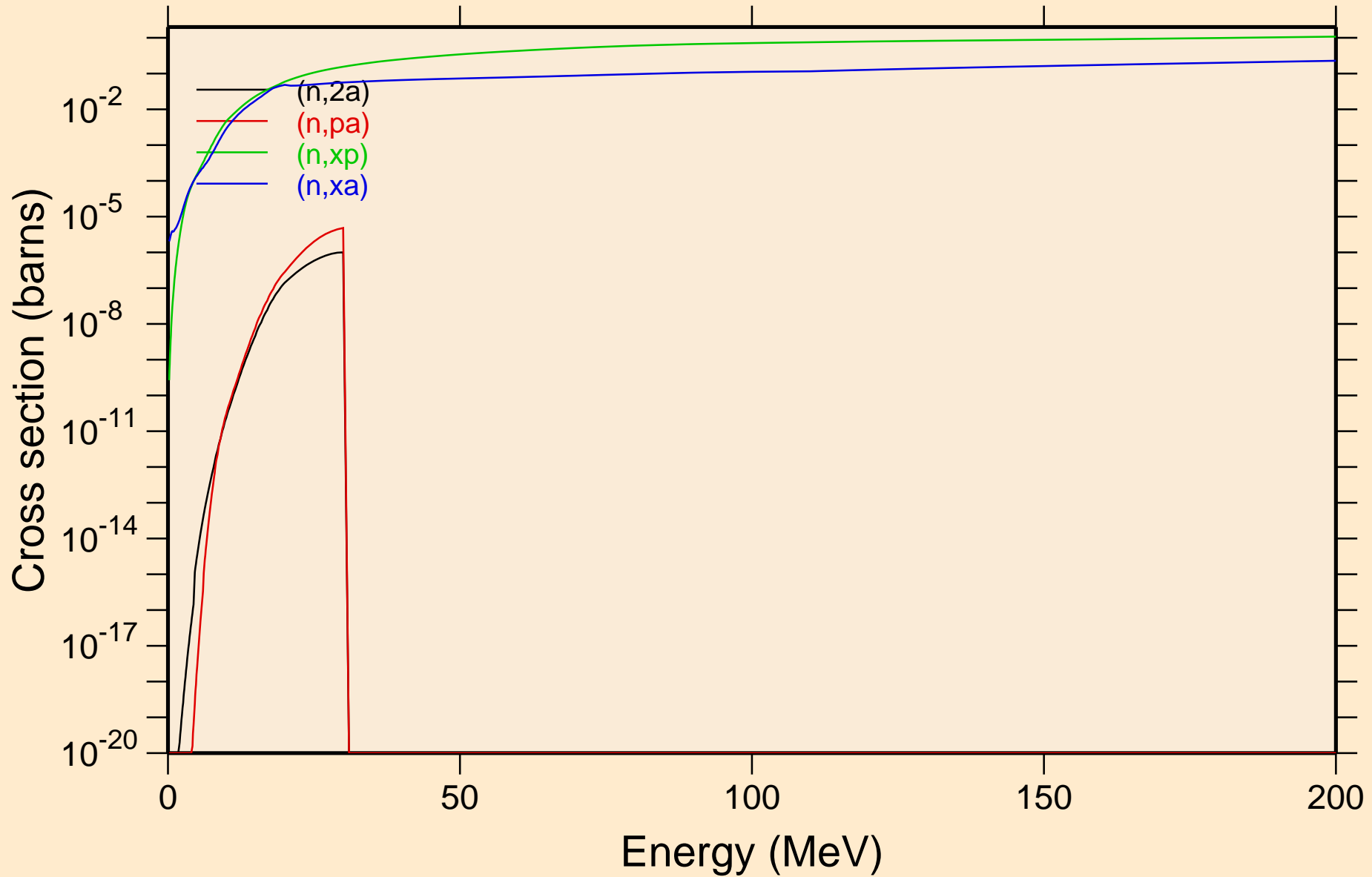


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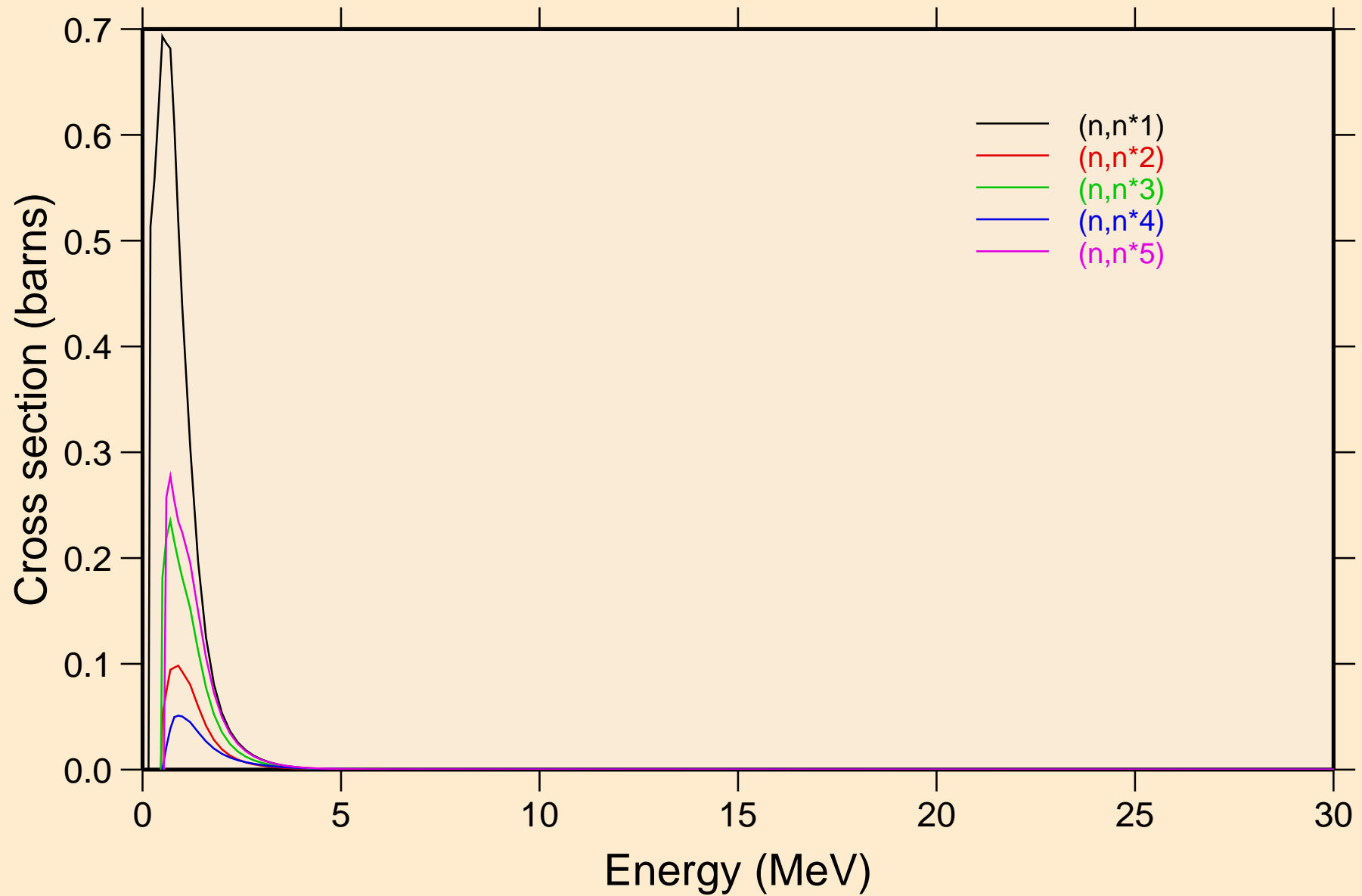
## Non-threshold reactions



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

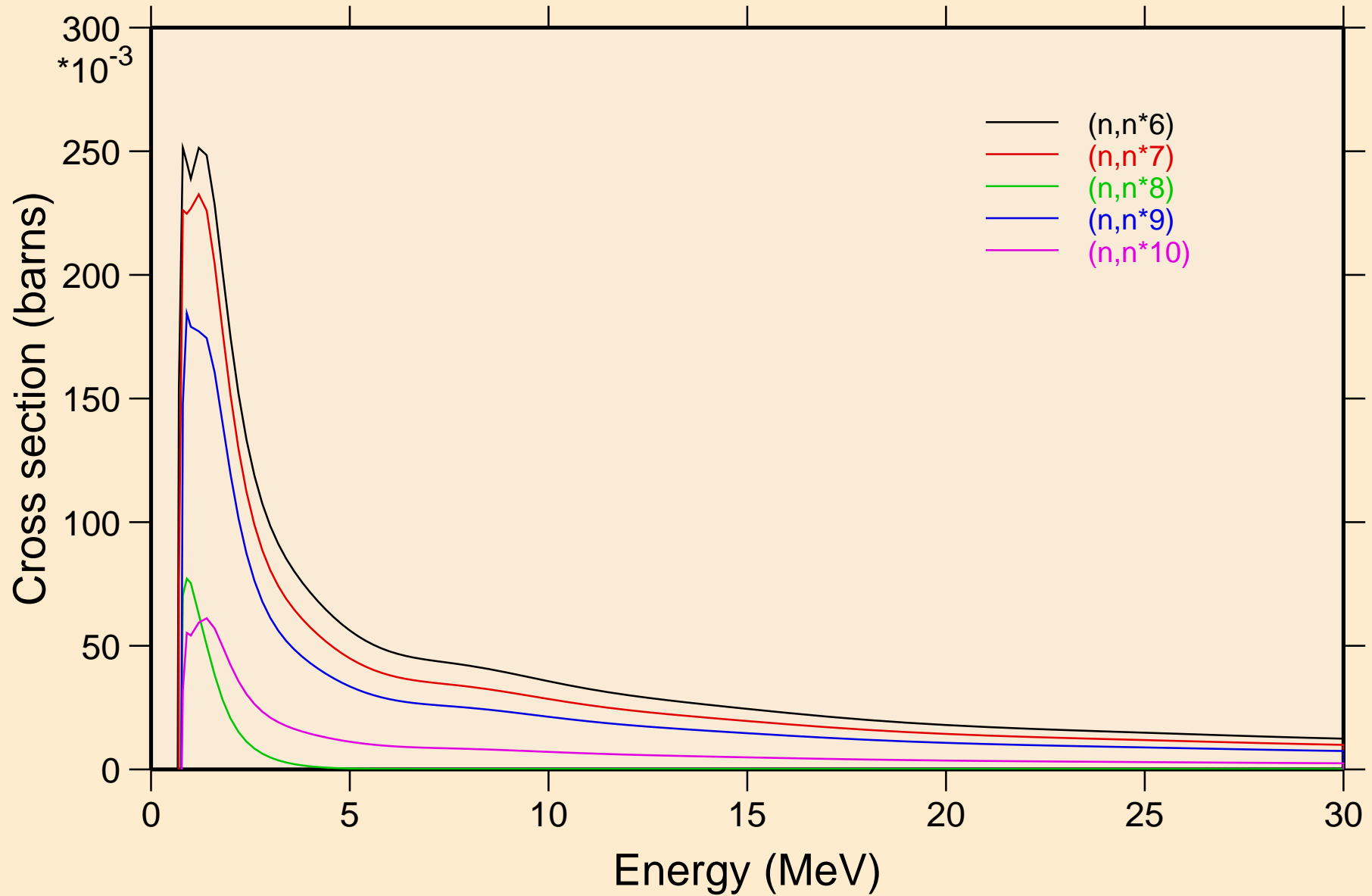


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



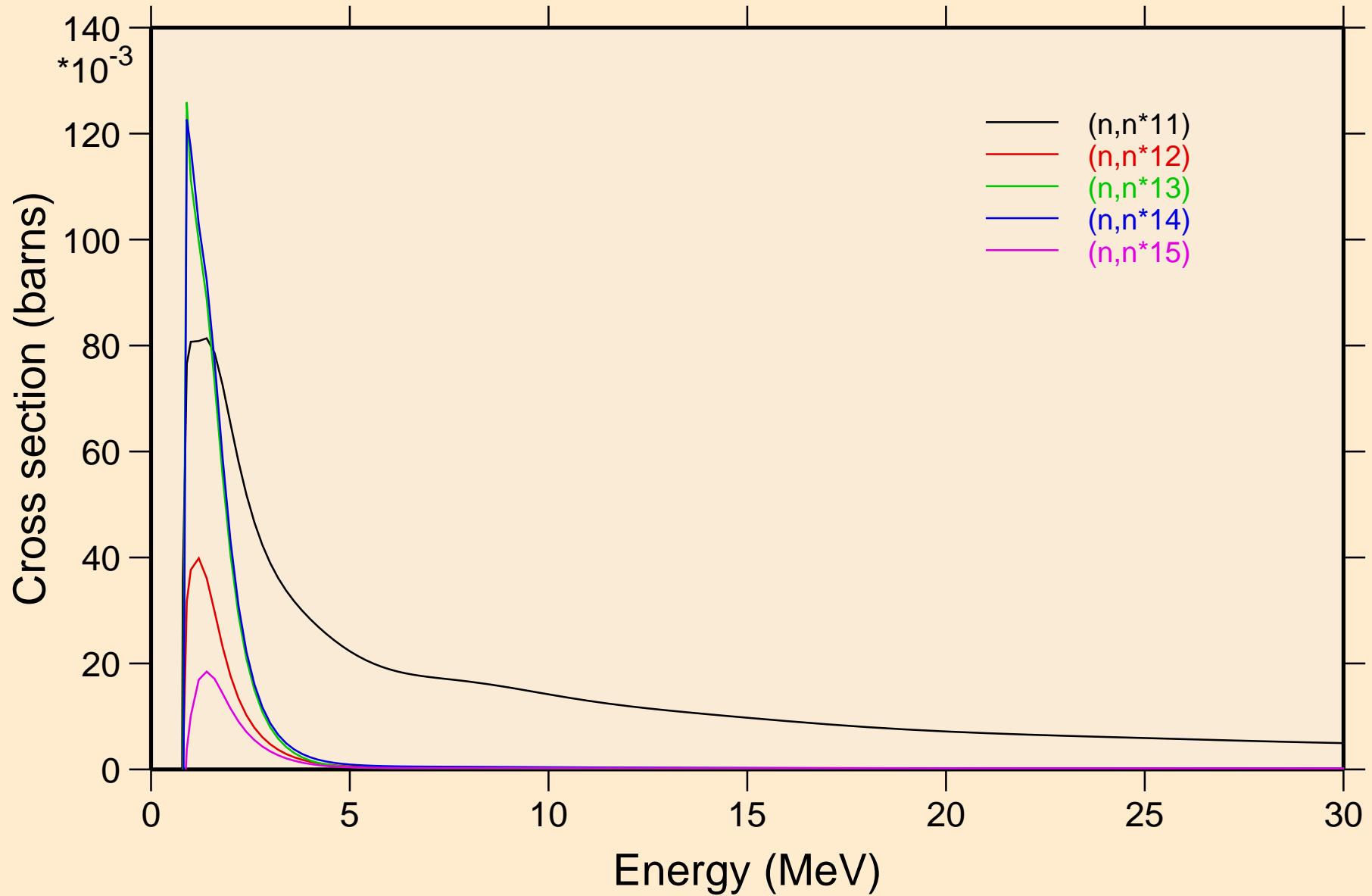
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## Inelastic levels



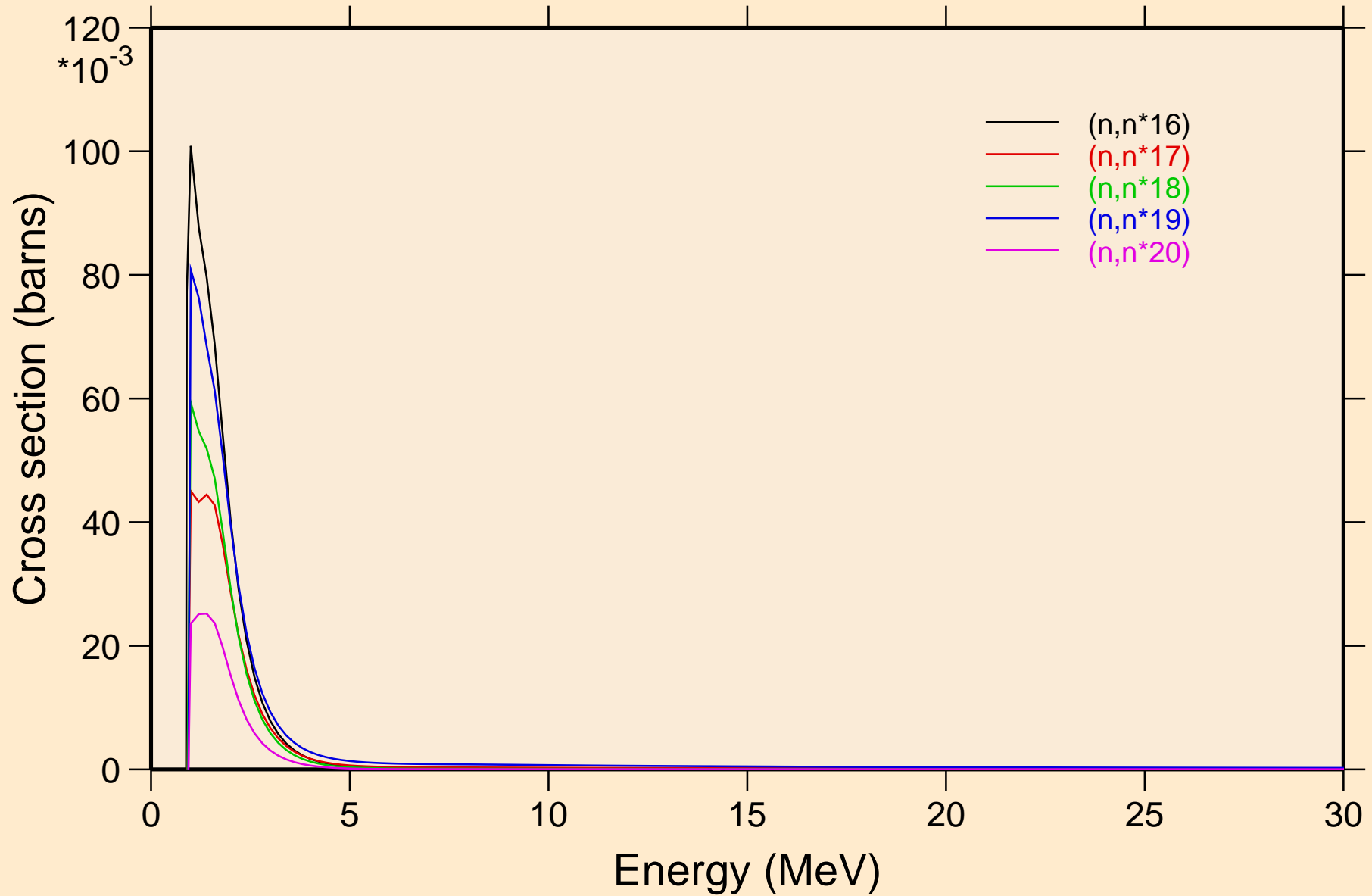
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## Inelastic levels



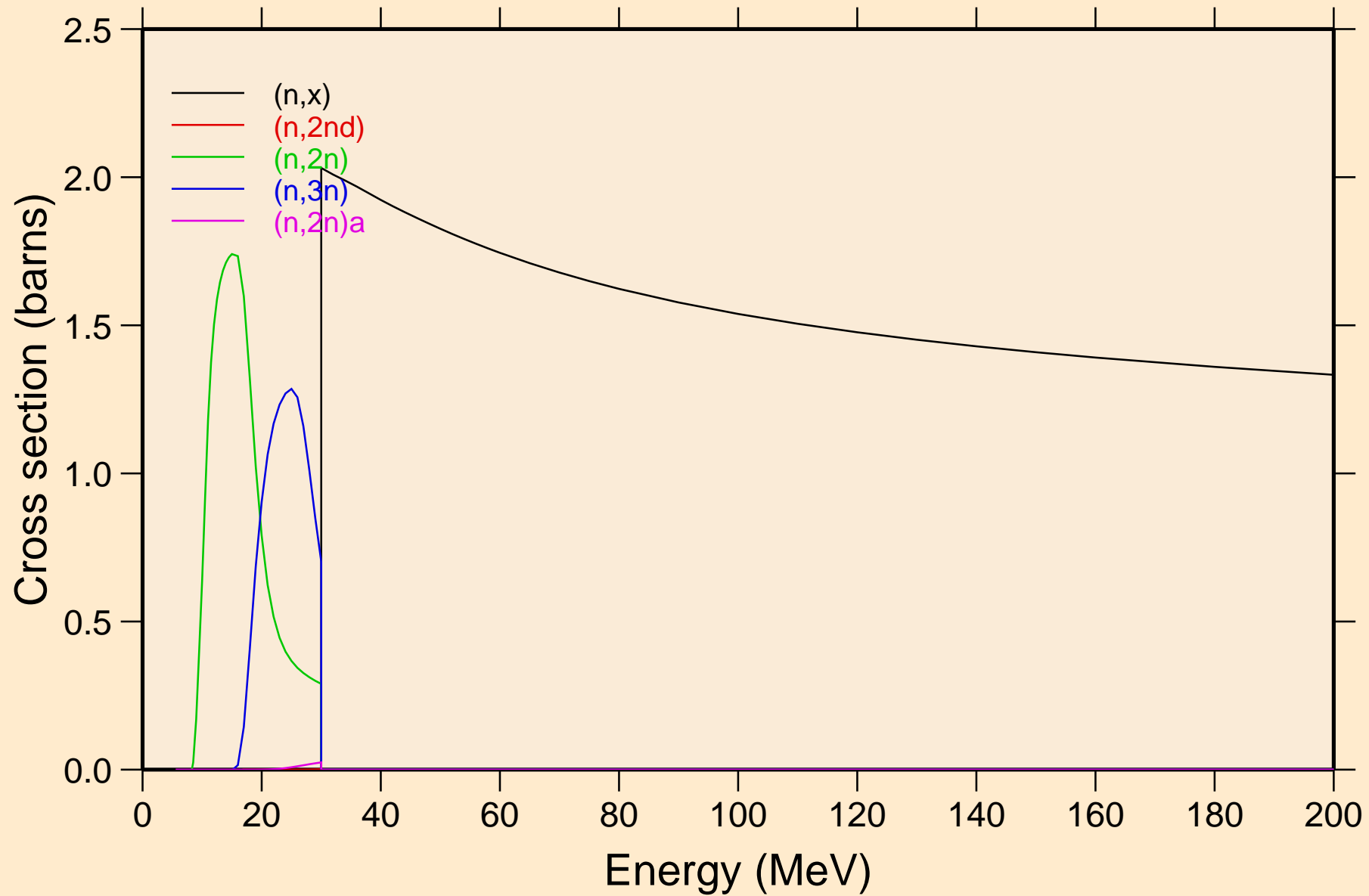
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## Inelastic levels



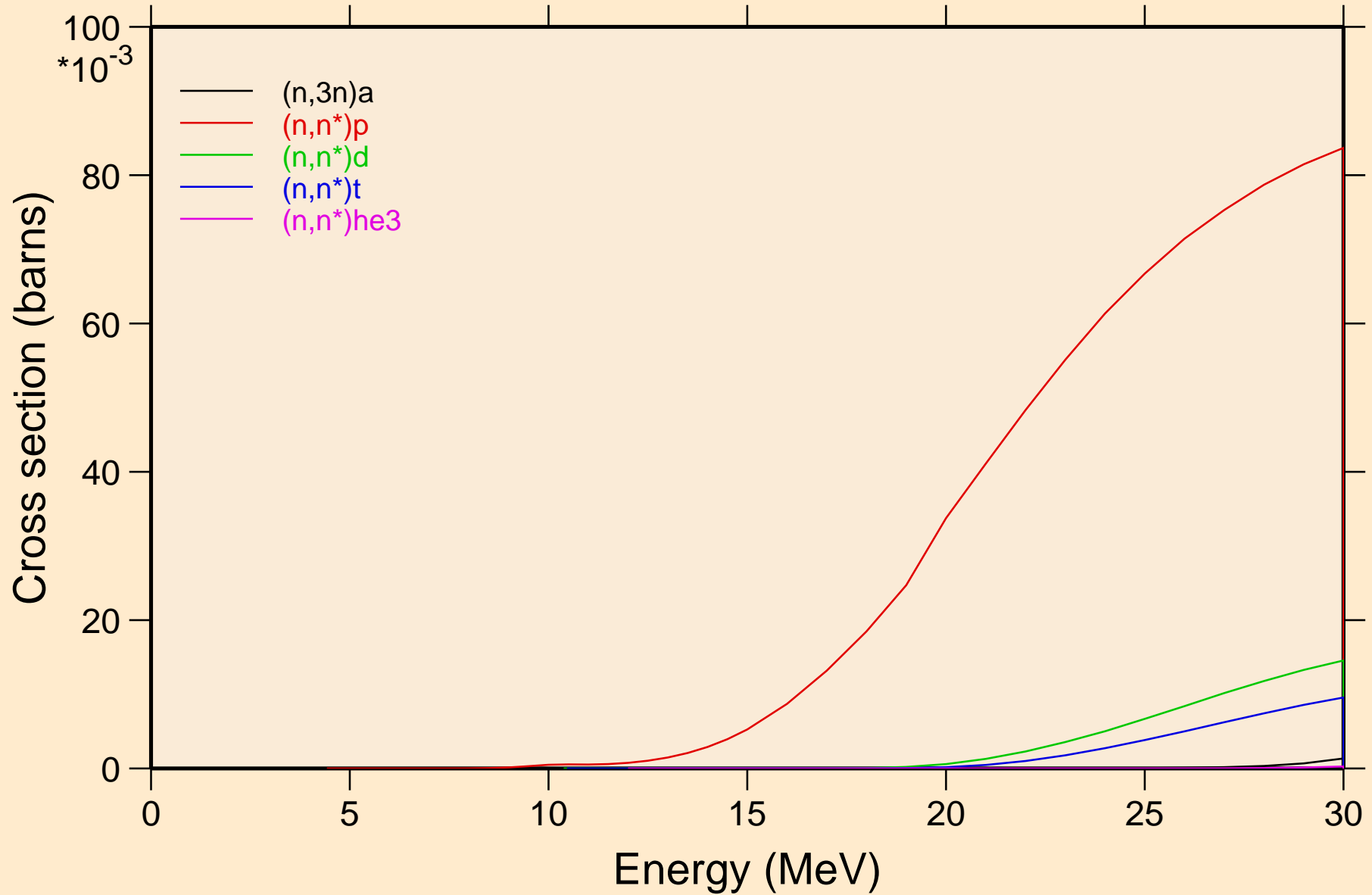
# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



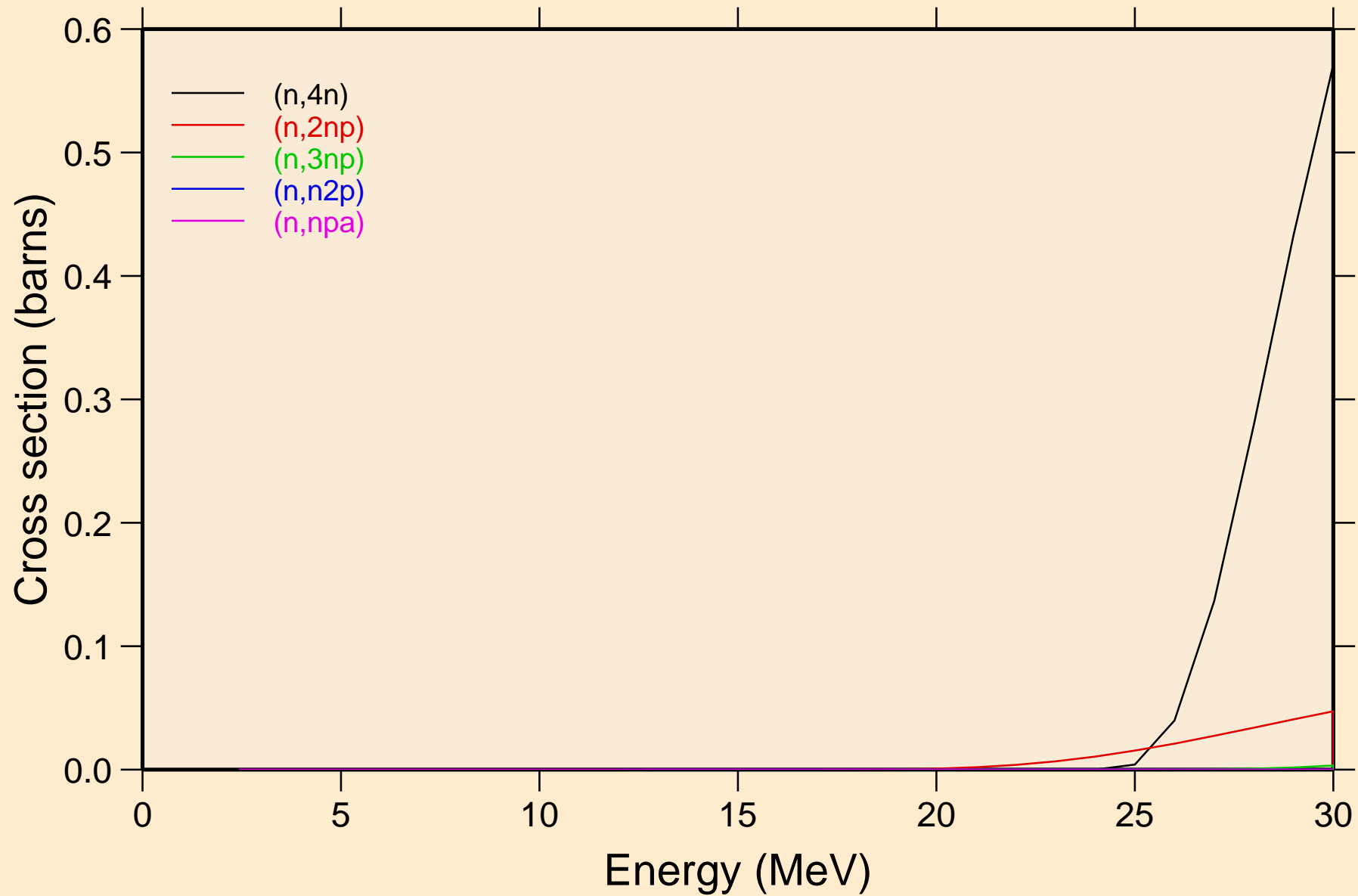
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## Threshold reactions

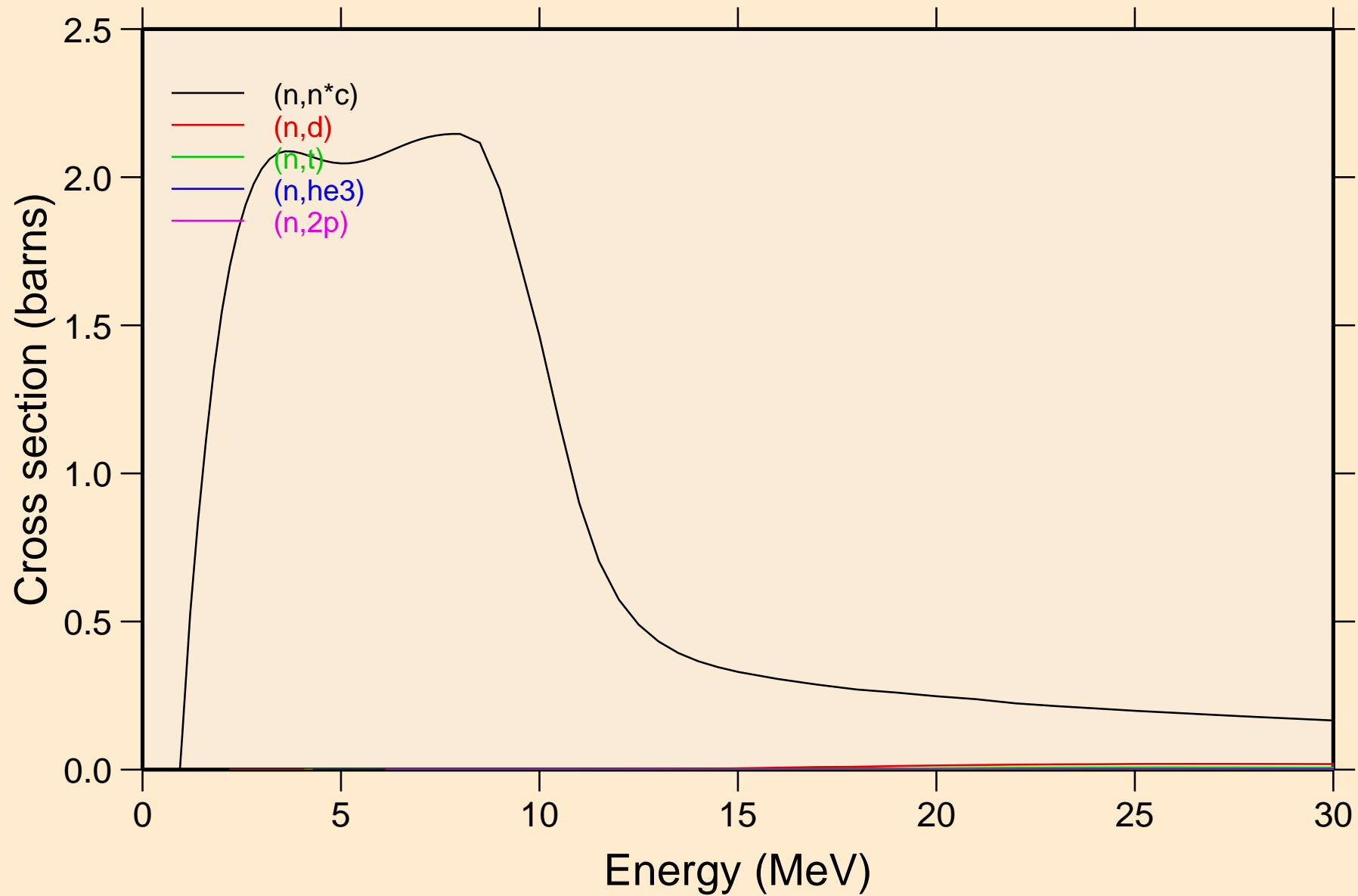




EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

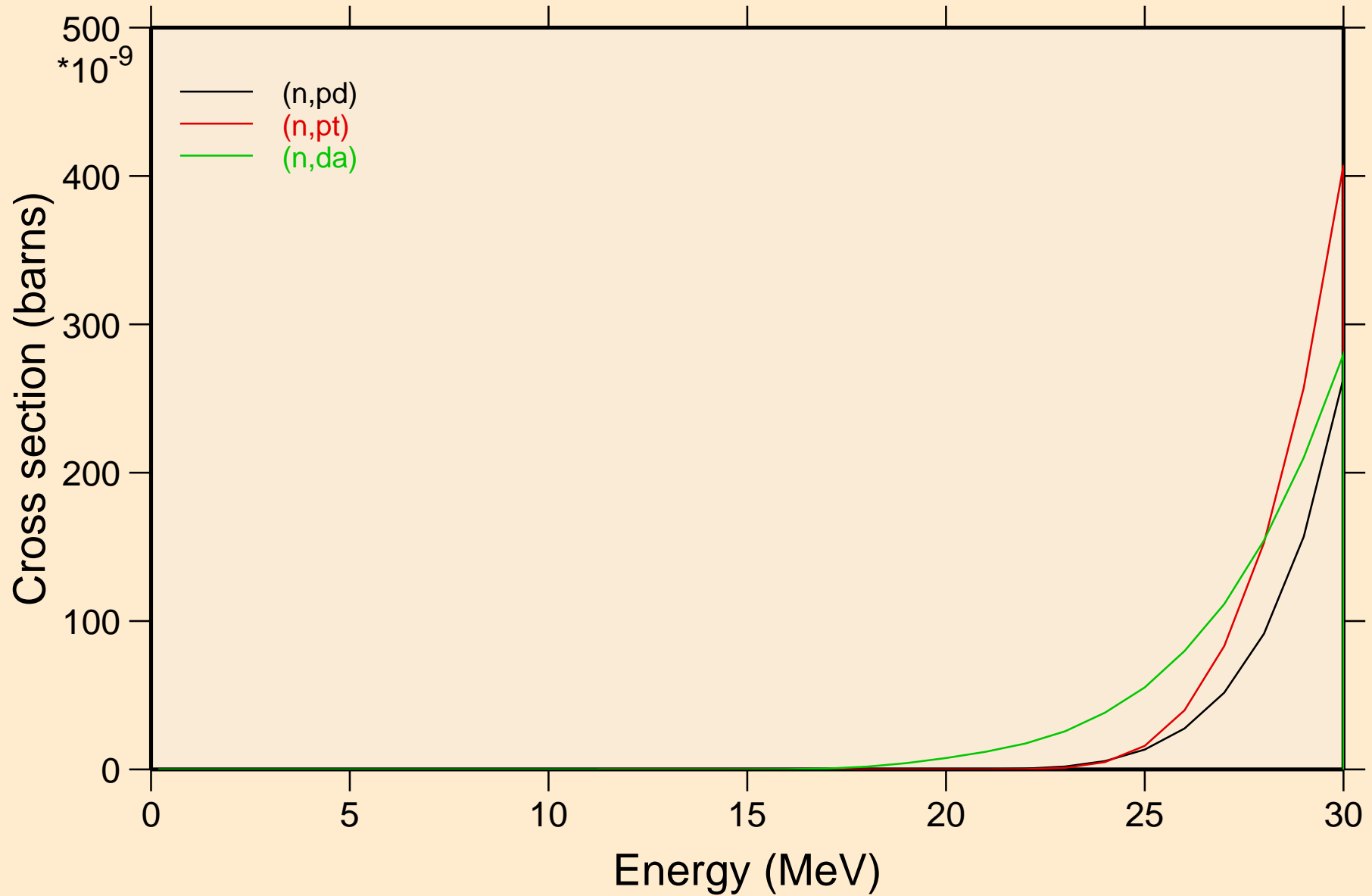


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



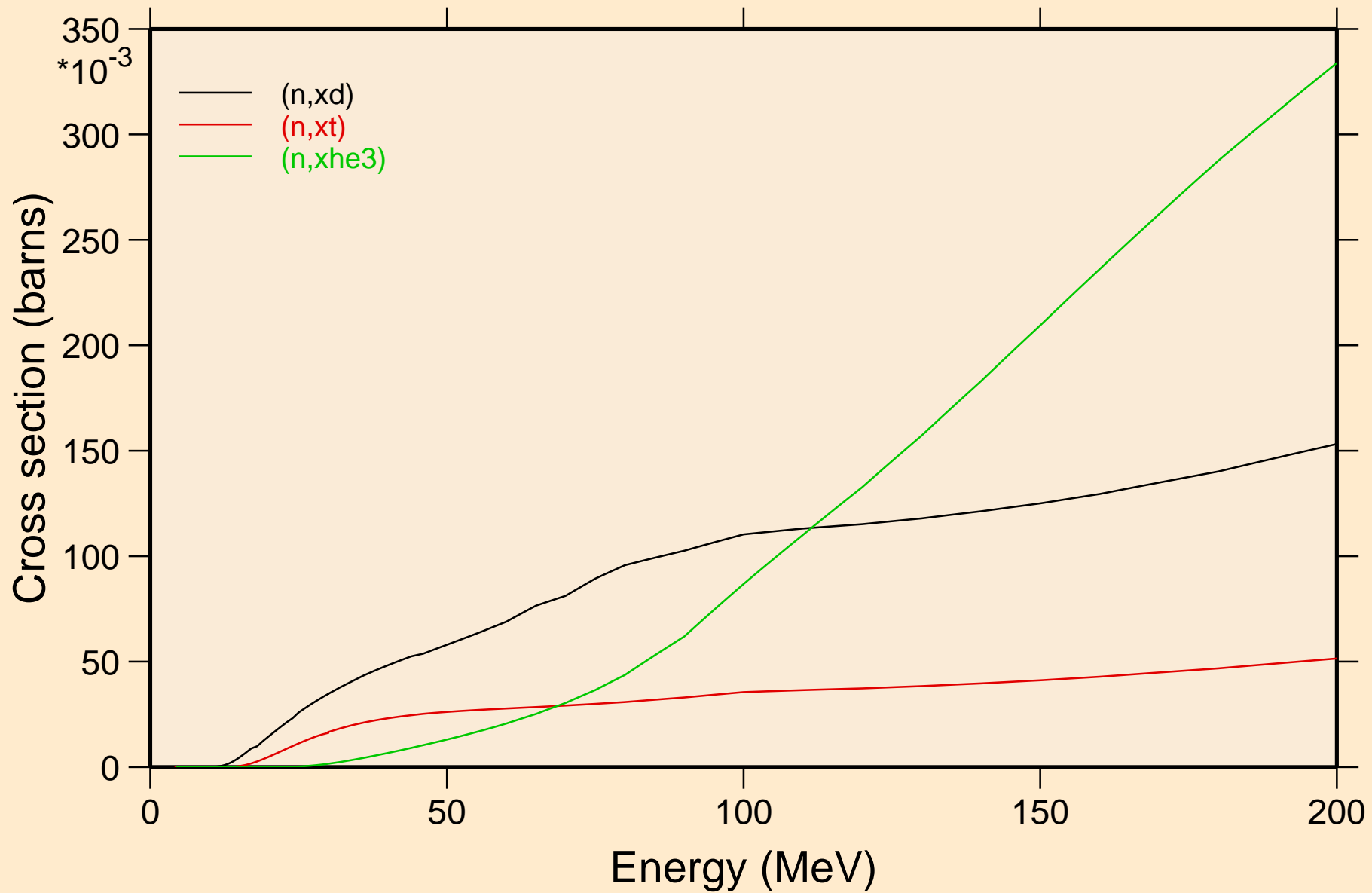
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## Threshold reactions

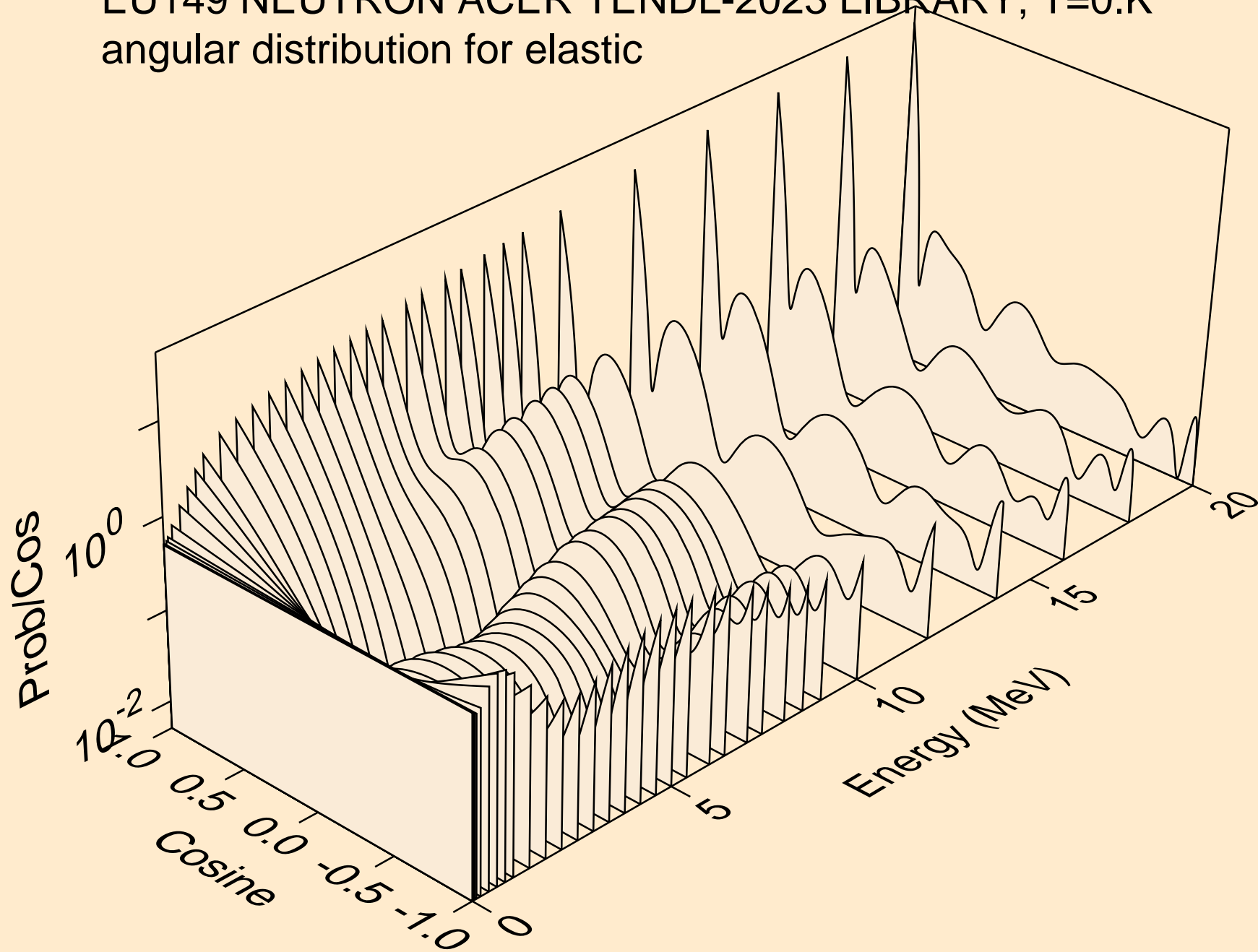


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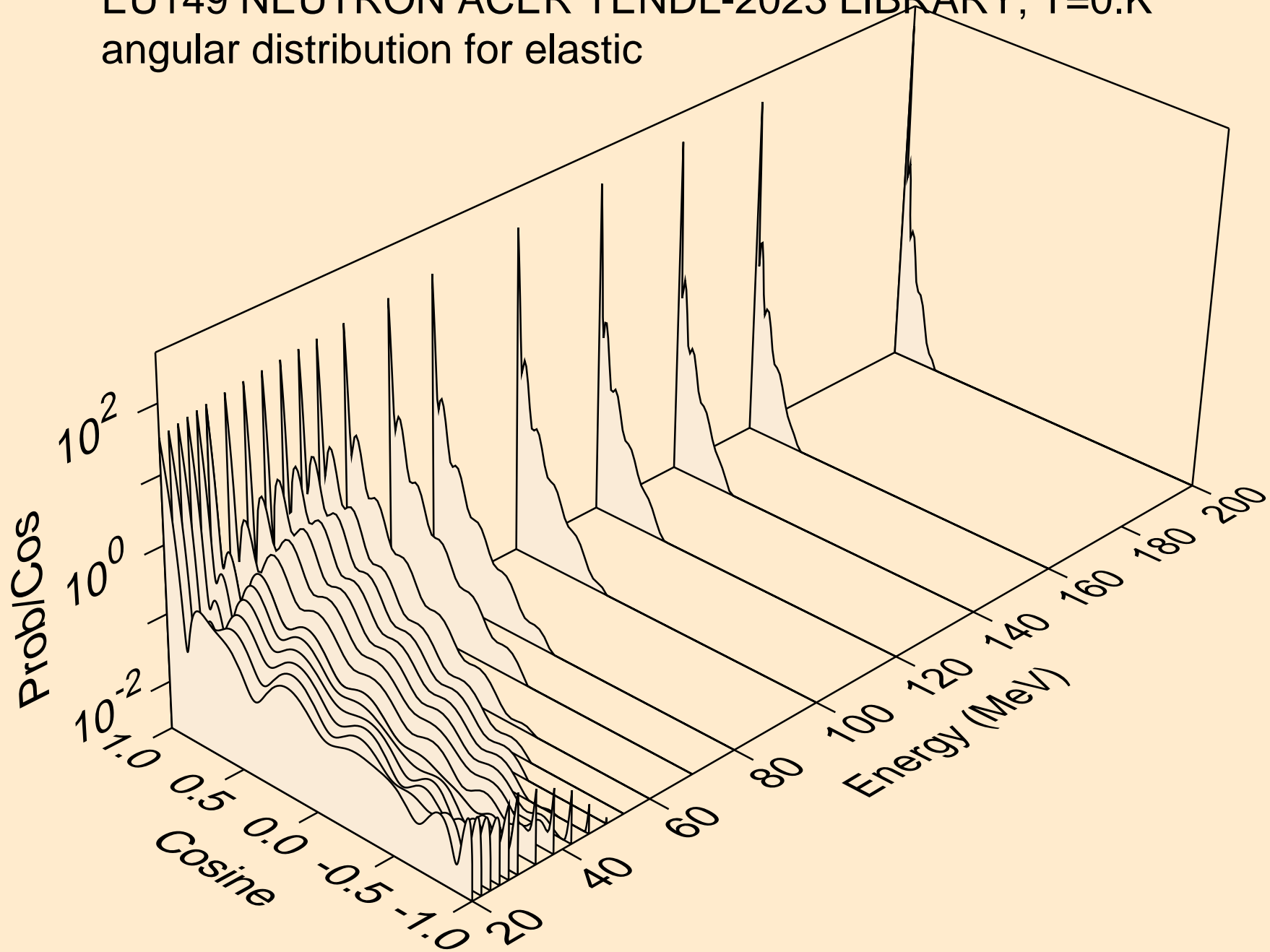
## Threshold reactions



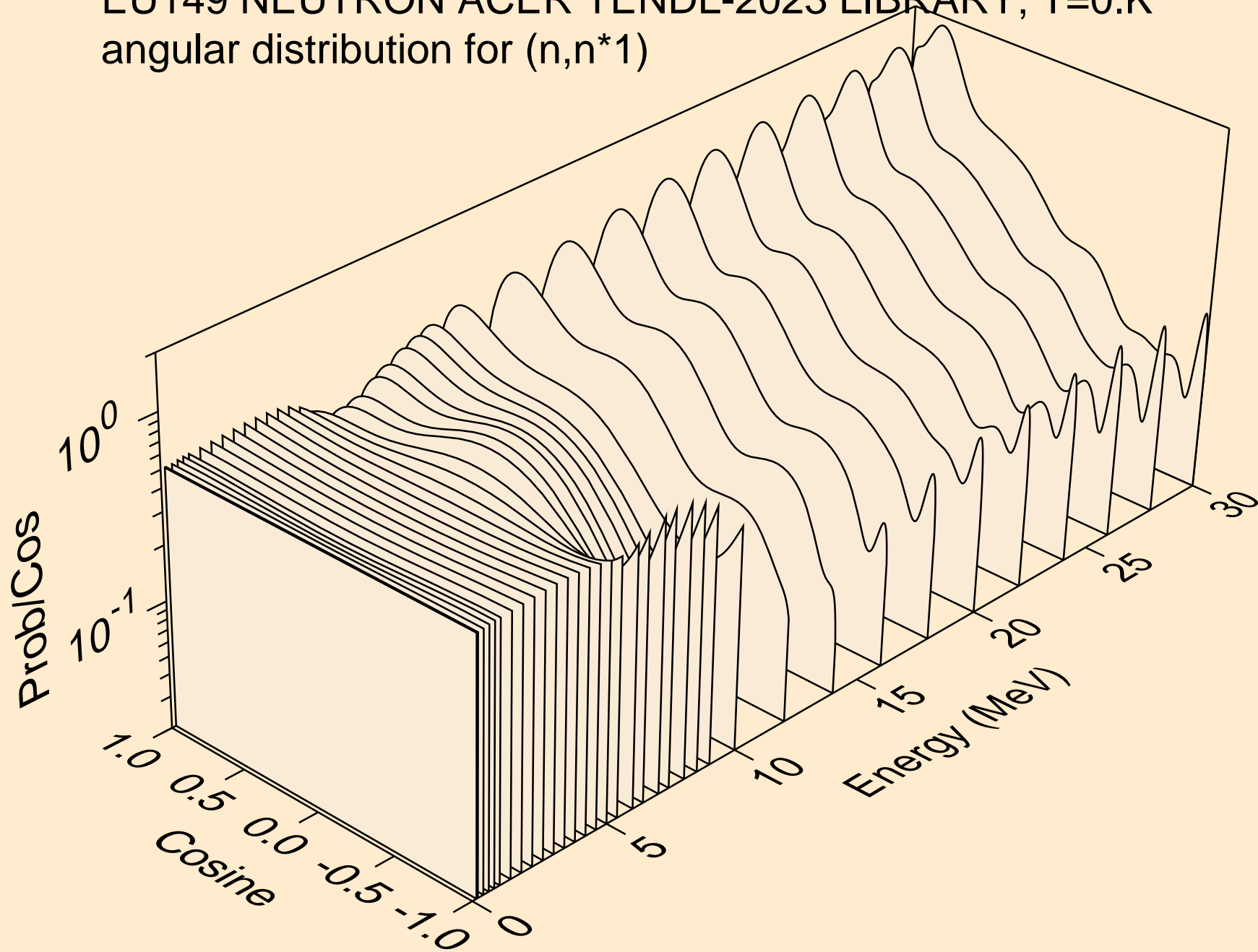
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



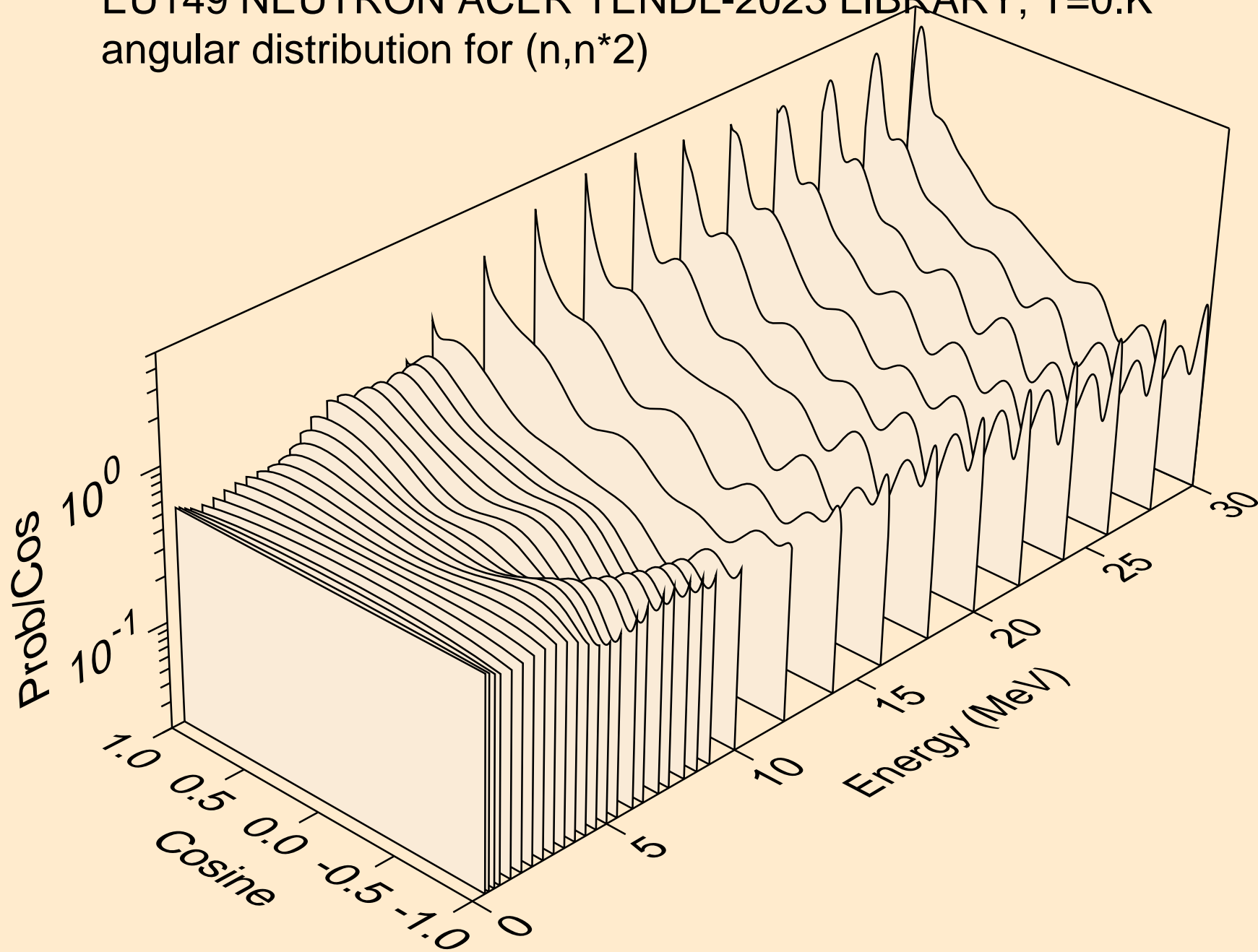
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

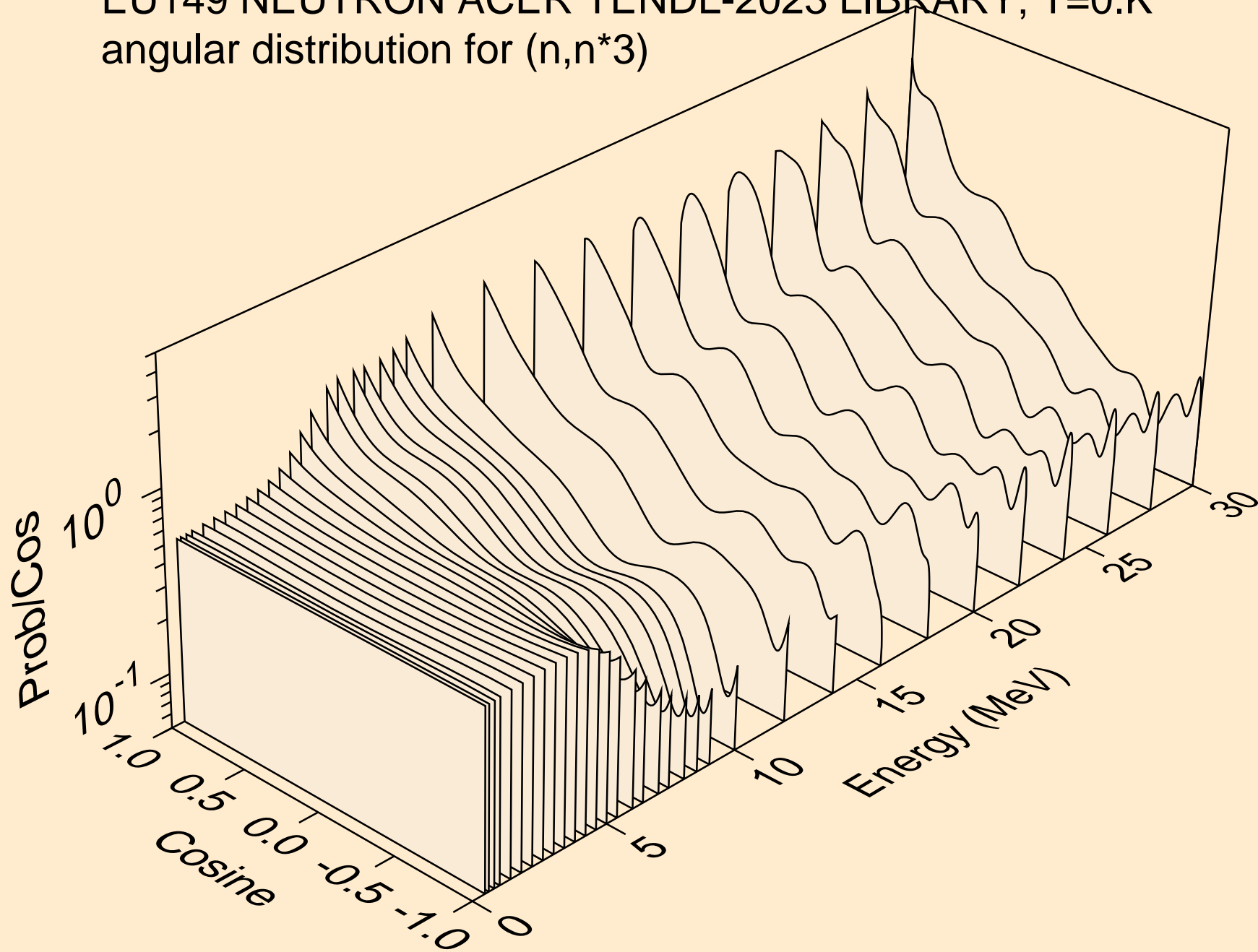


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

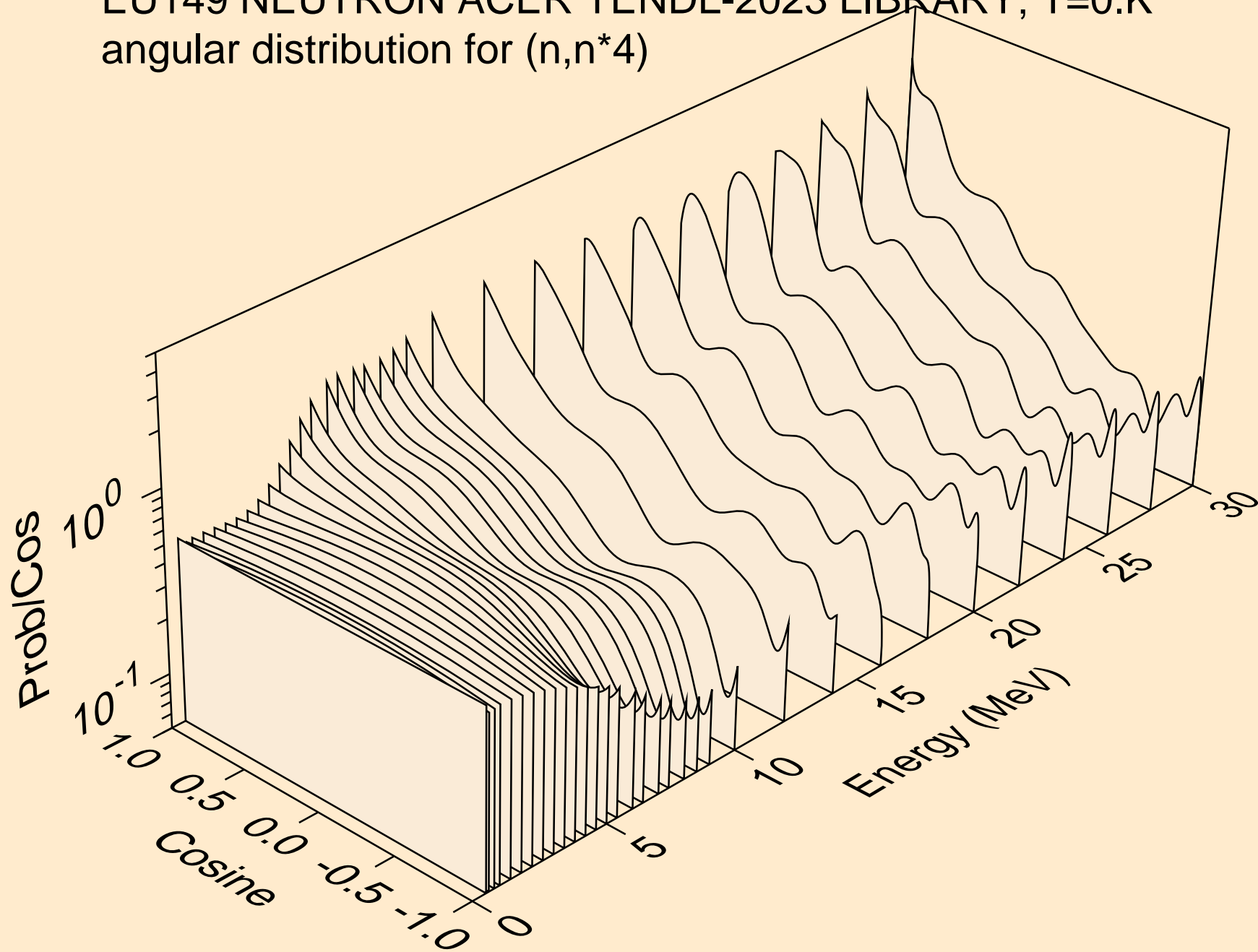




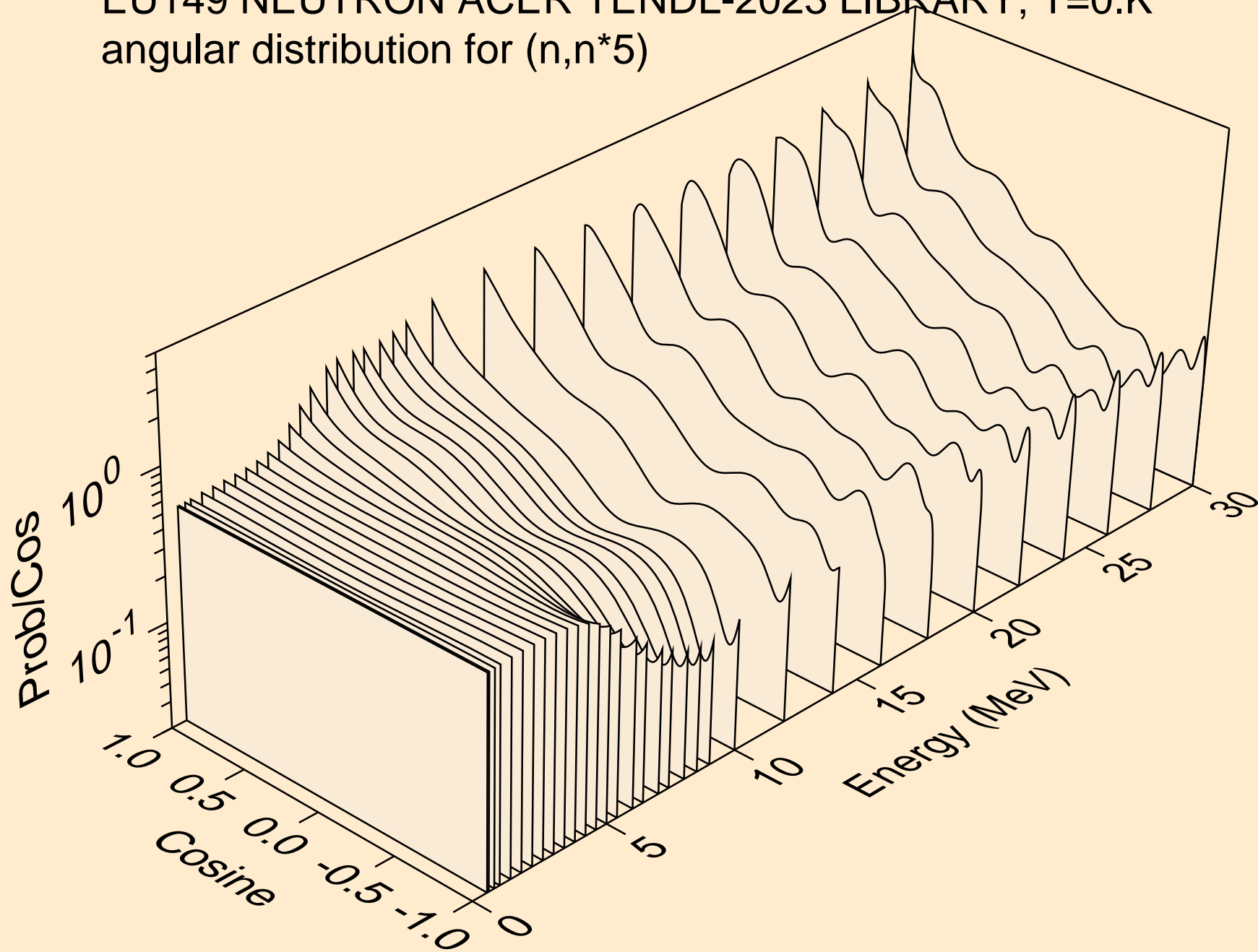
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angular distribution for (n,n\*3)



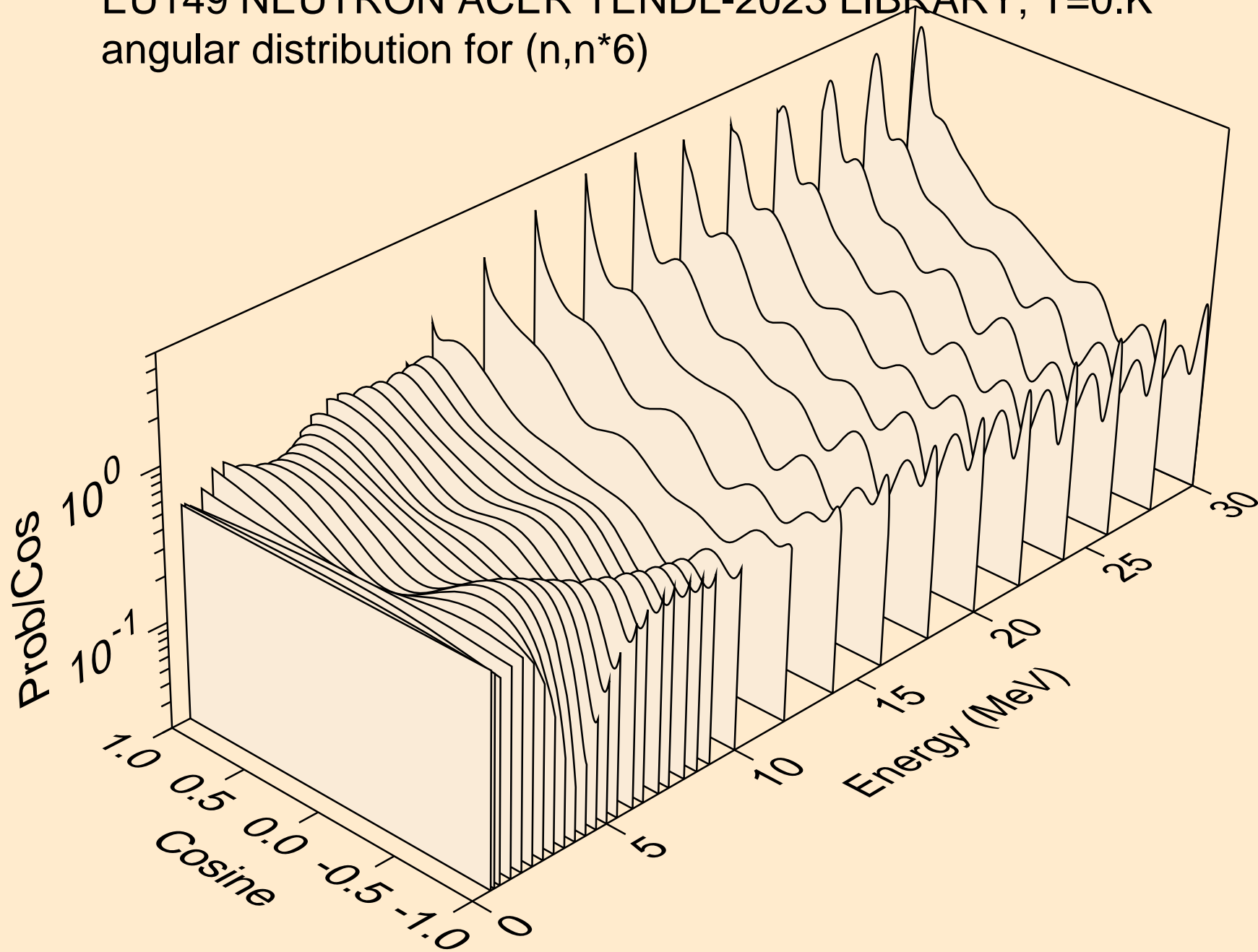
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angular distribution for (n,n\*4)



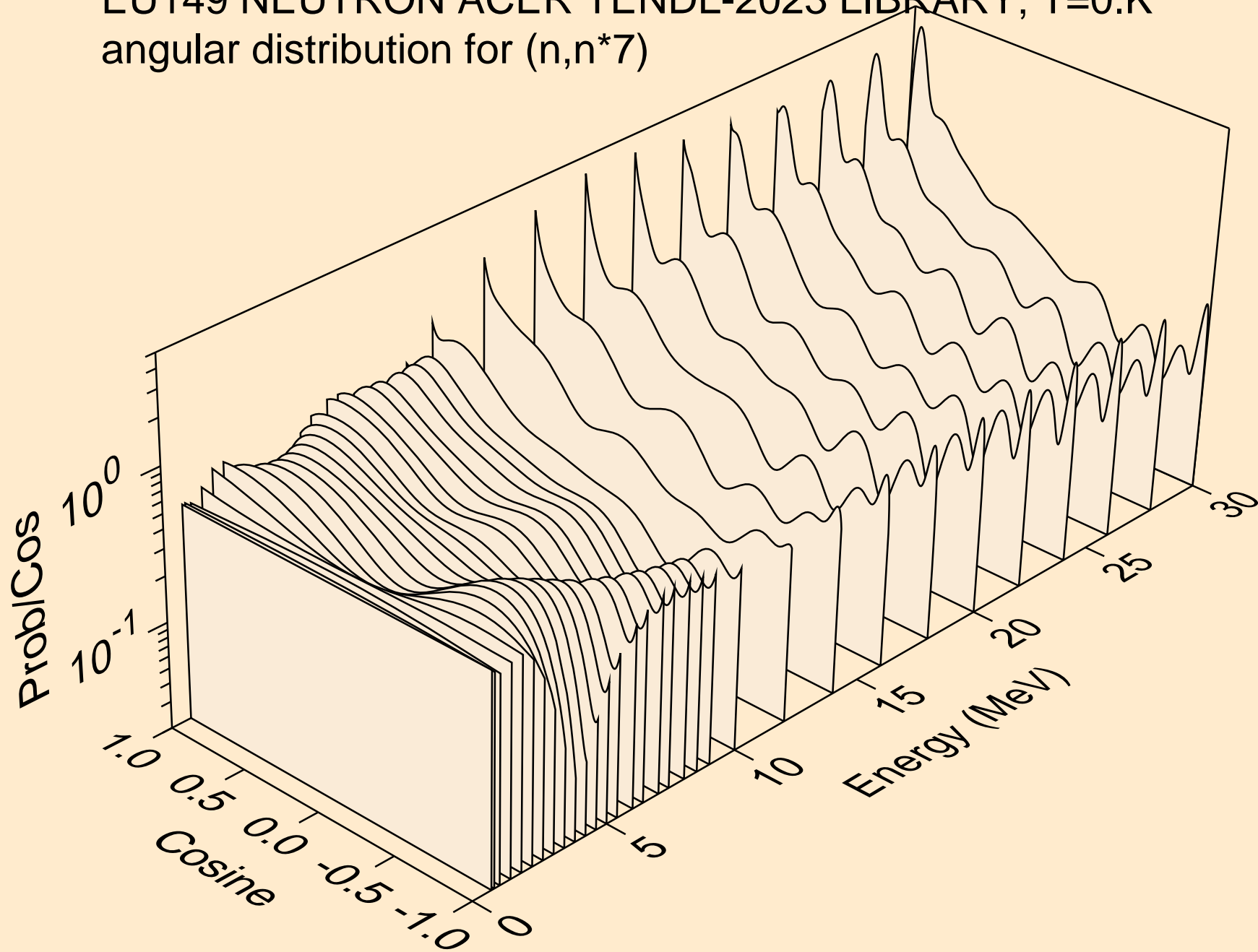
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angular distribution for (n,n\*5)



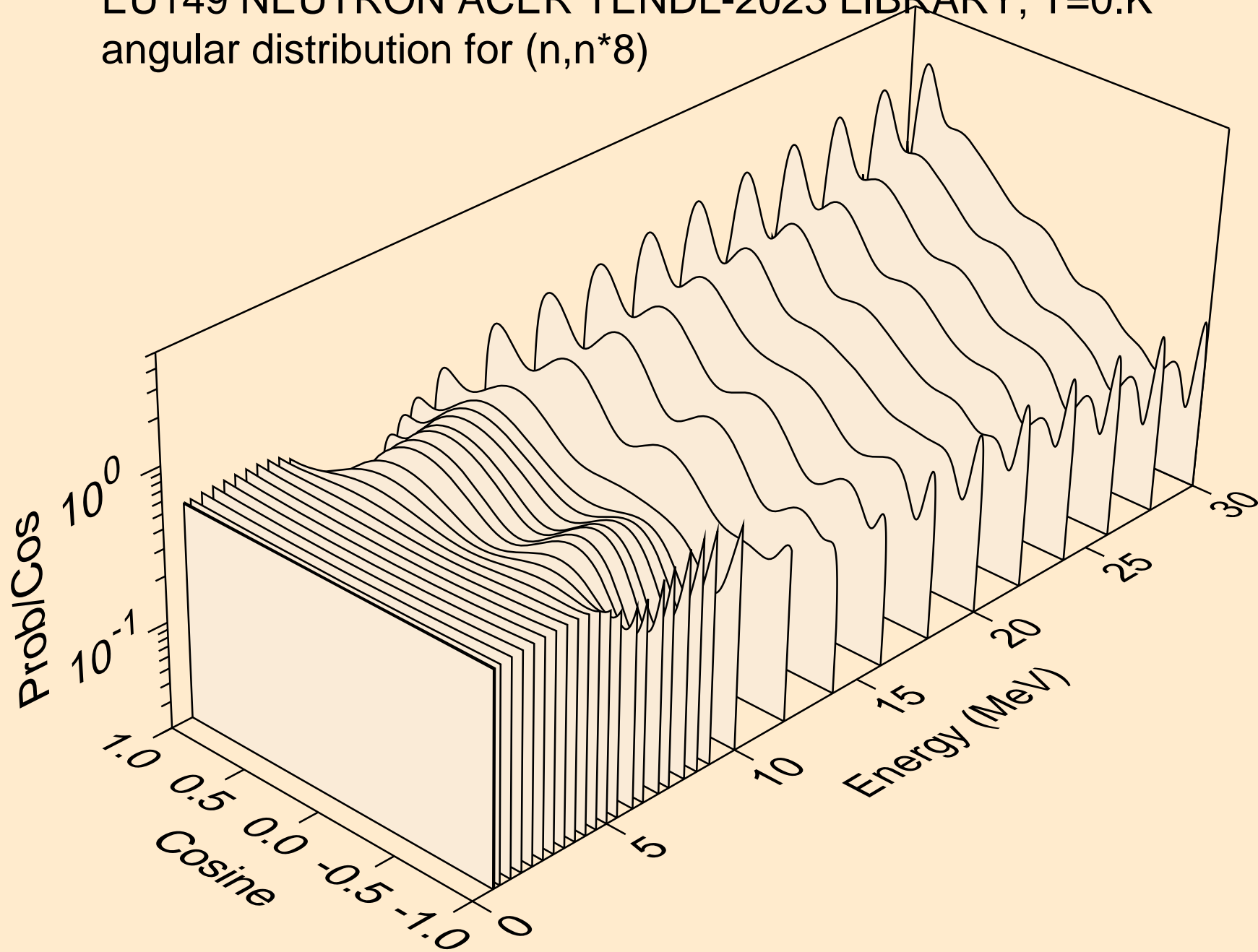
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angular distribution for (n,n\*6)



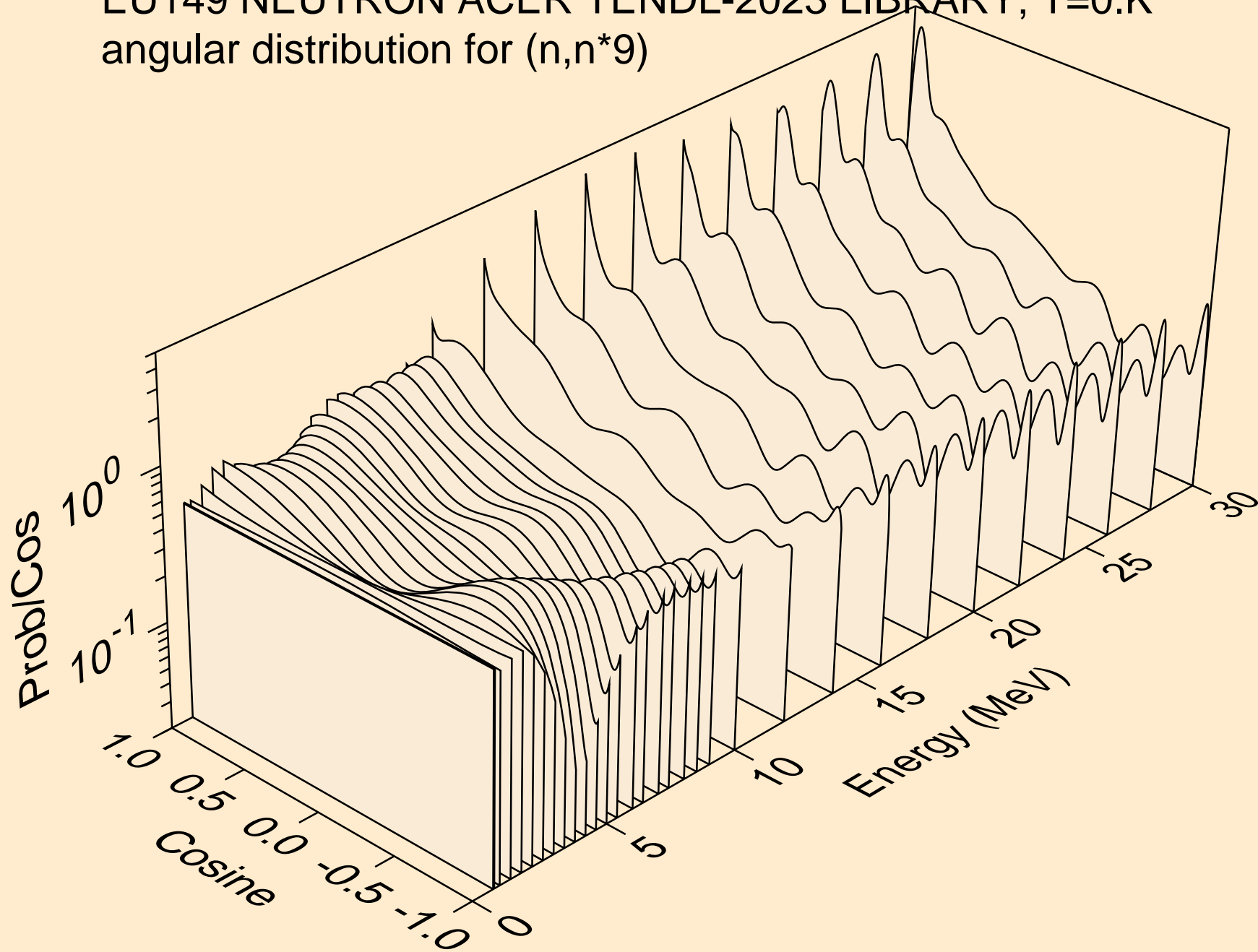
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angular distribution for (n,n\*7)



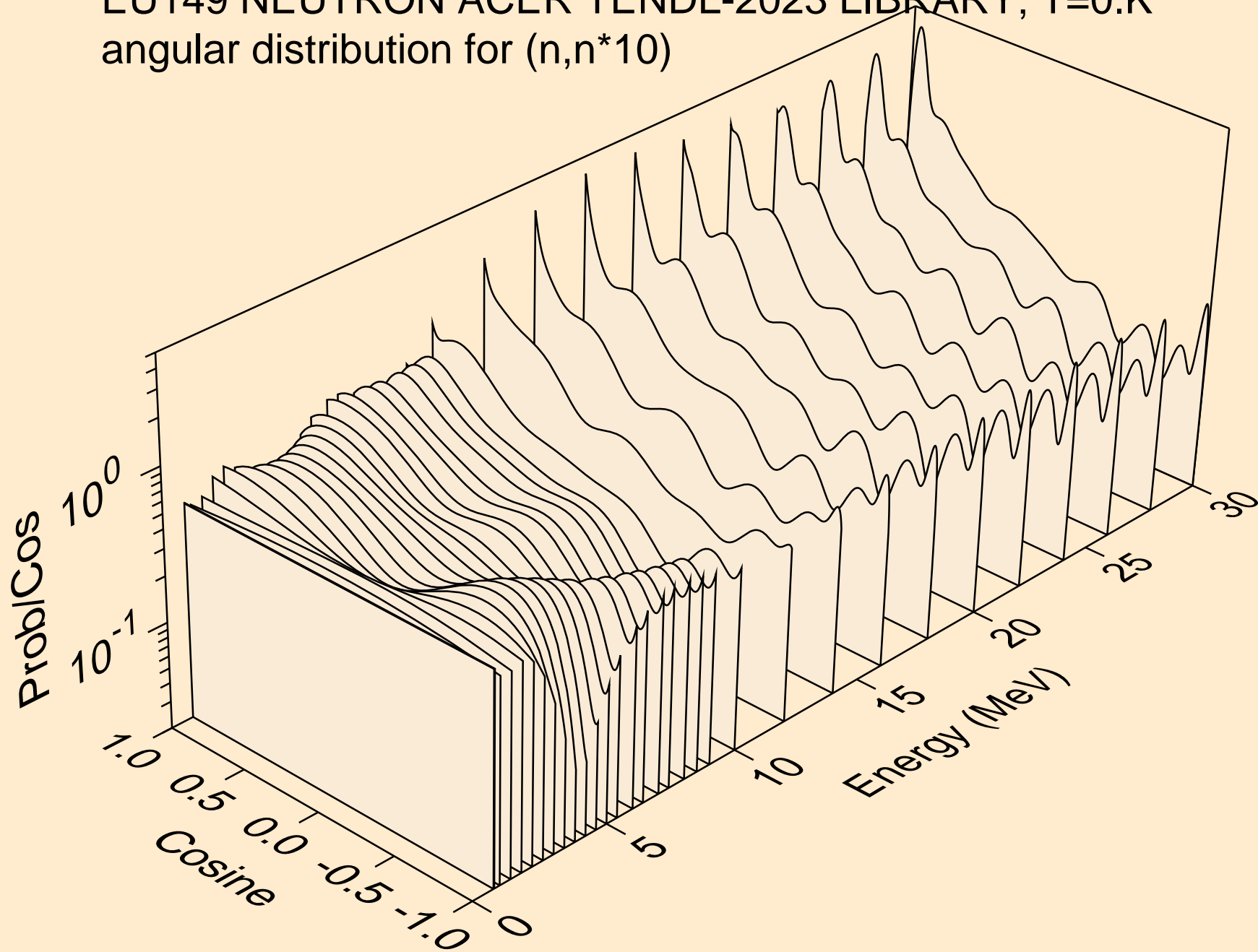
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angular distribution for (n,n\*8)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

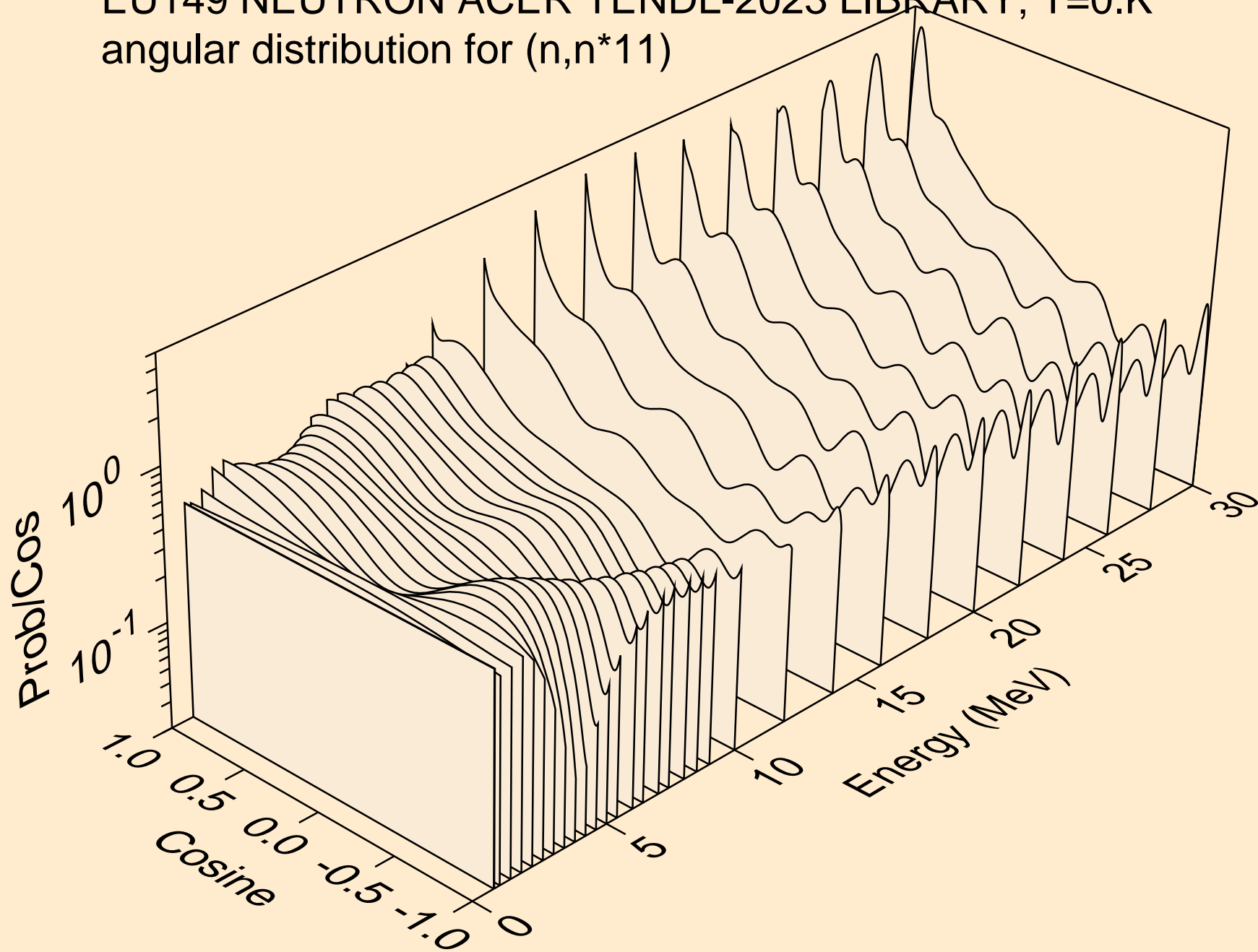


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

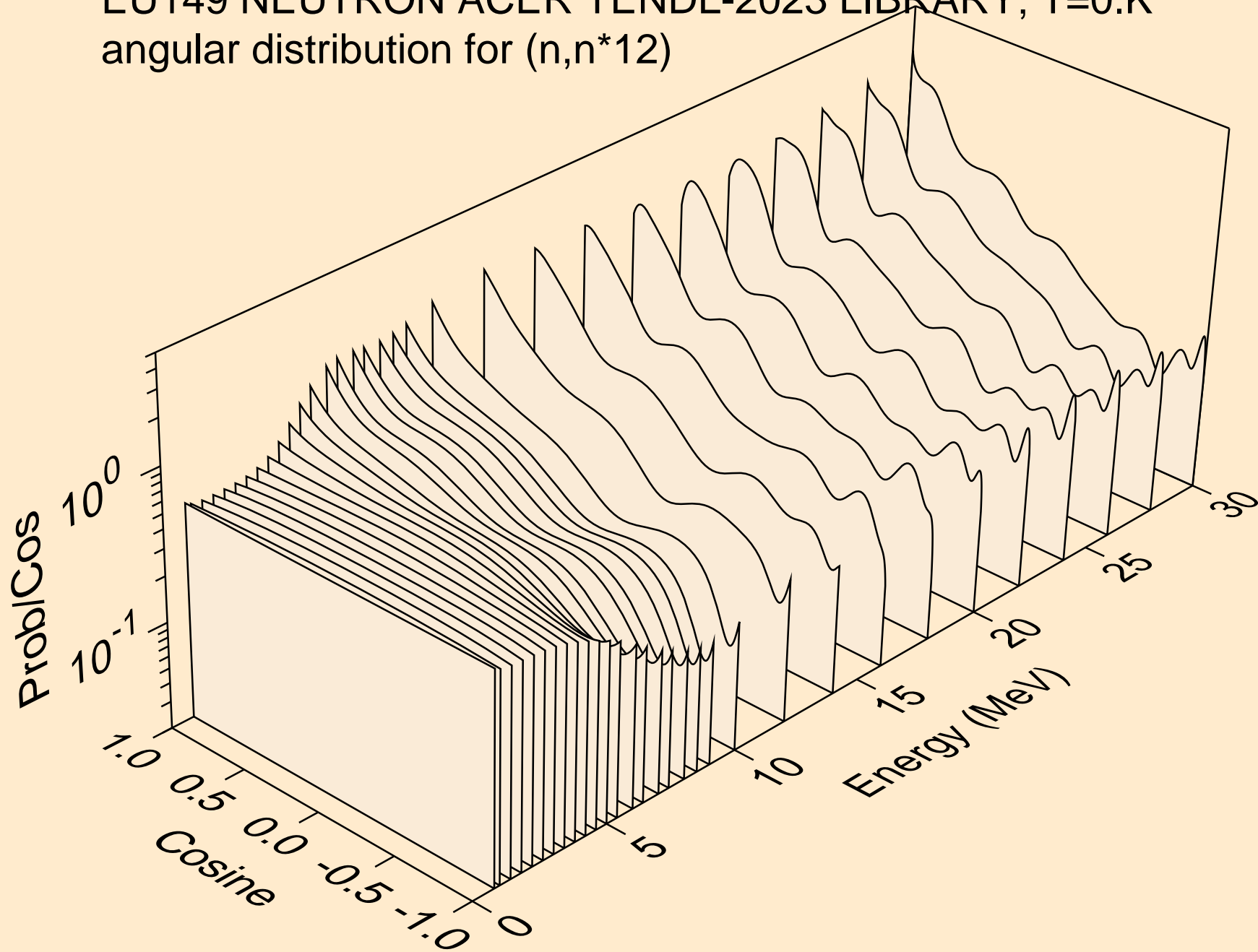




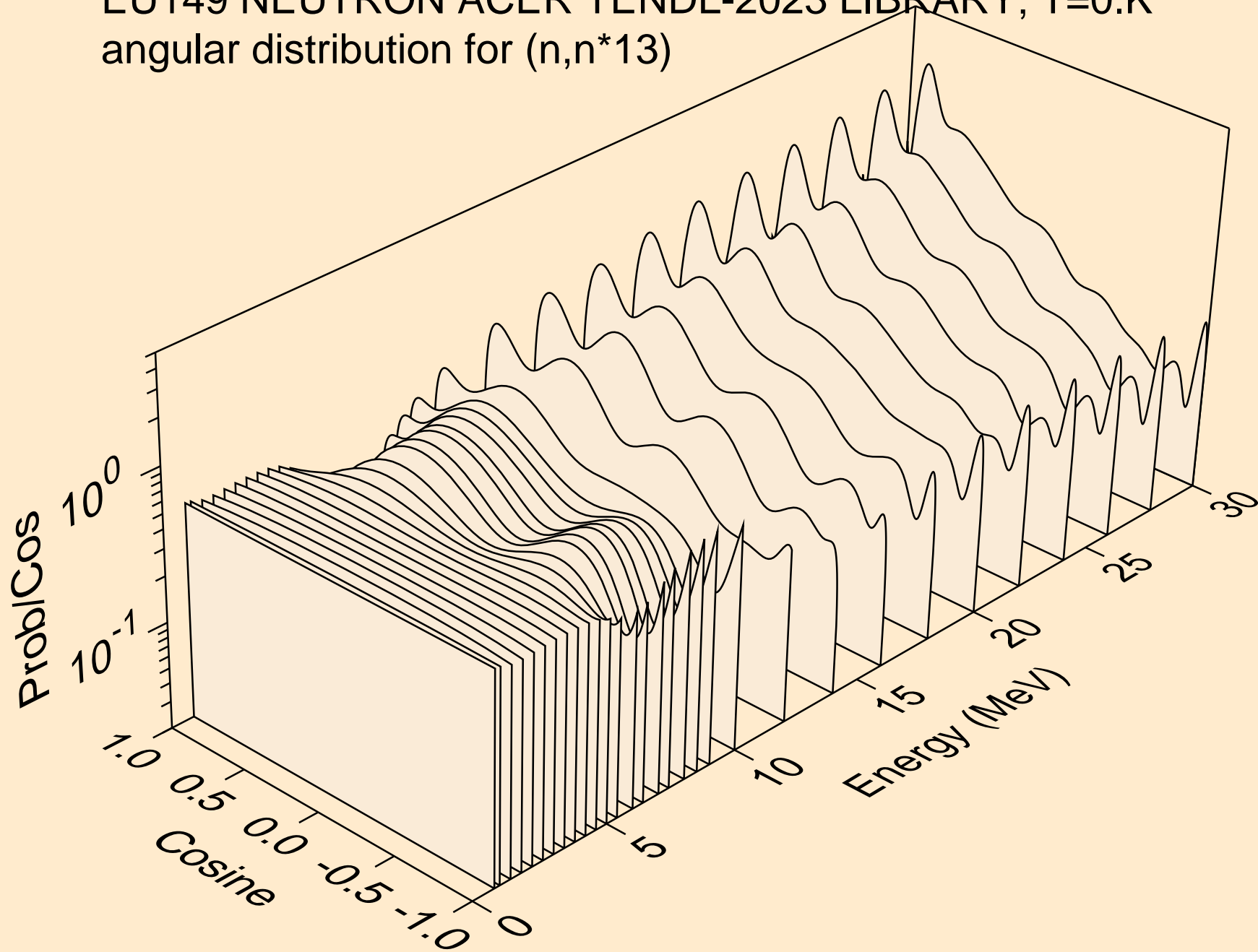
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angular distribution for (n,n\*11)



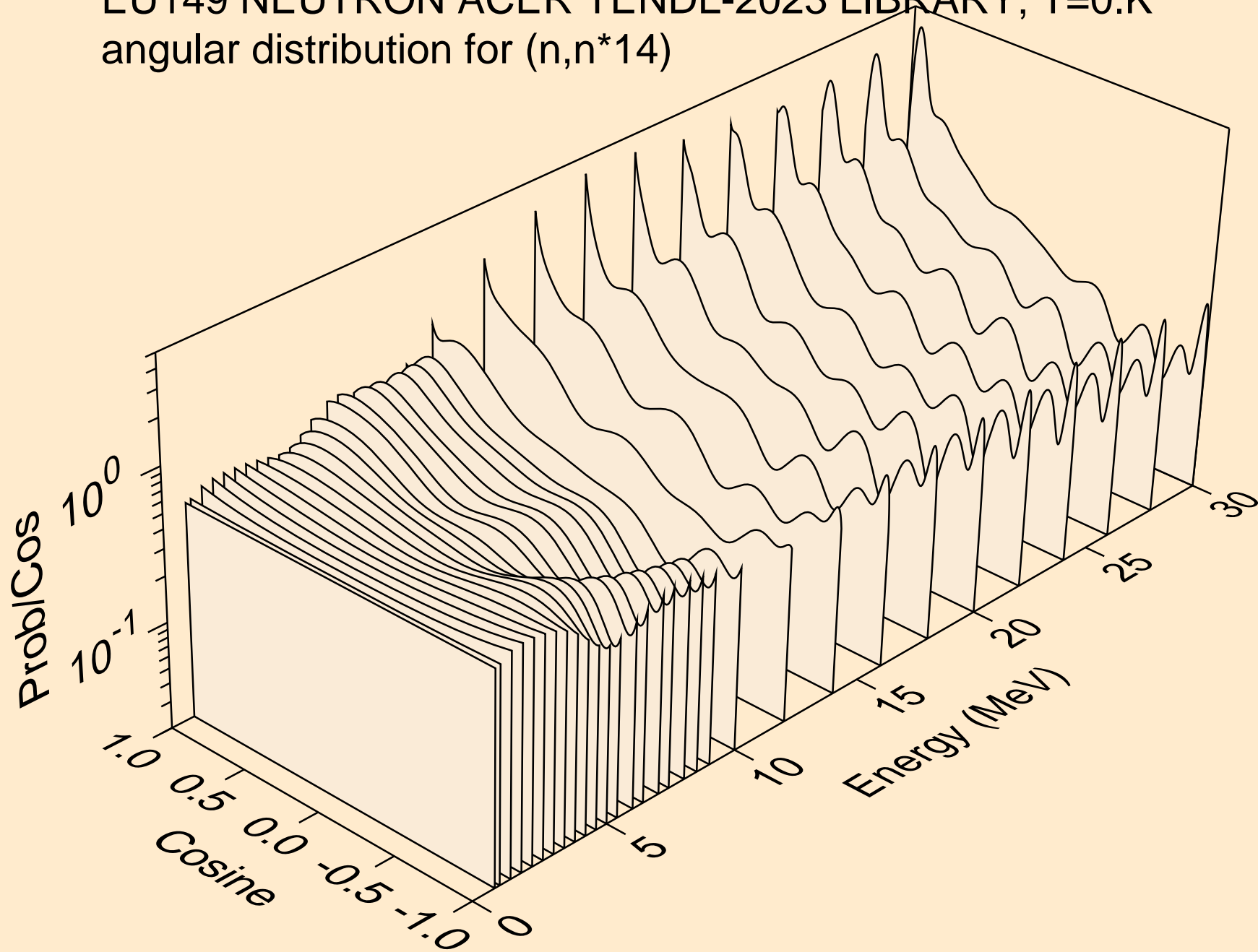
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angular distribution for (n,n\*12)



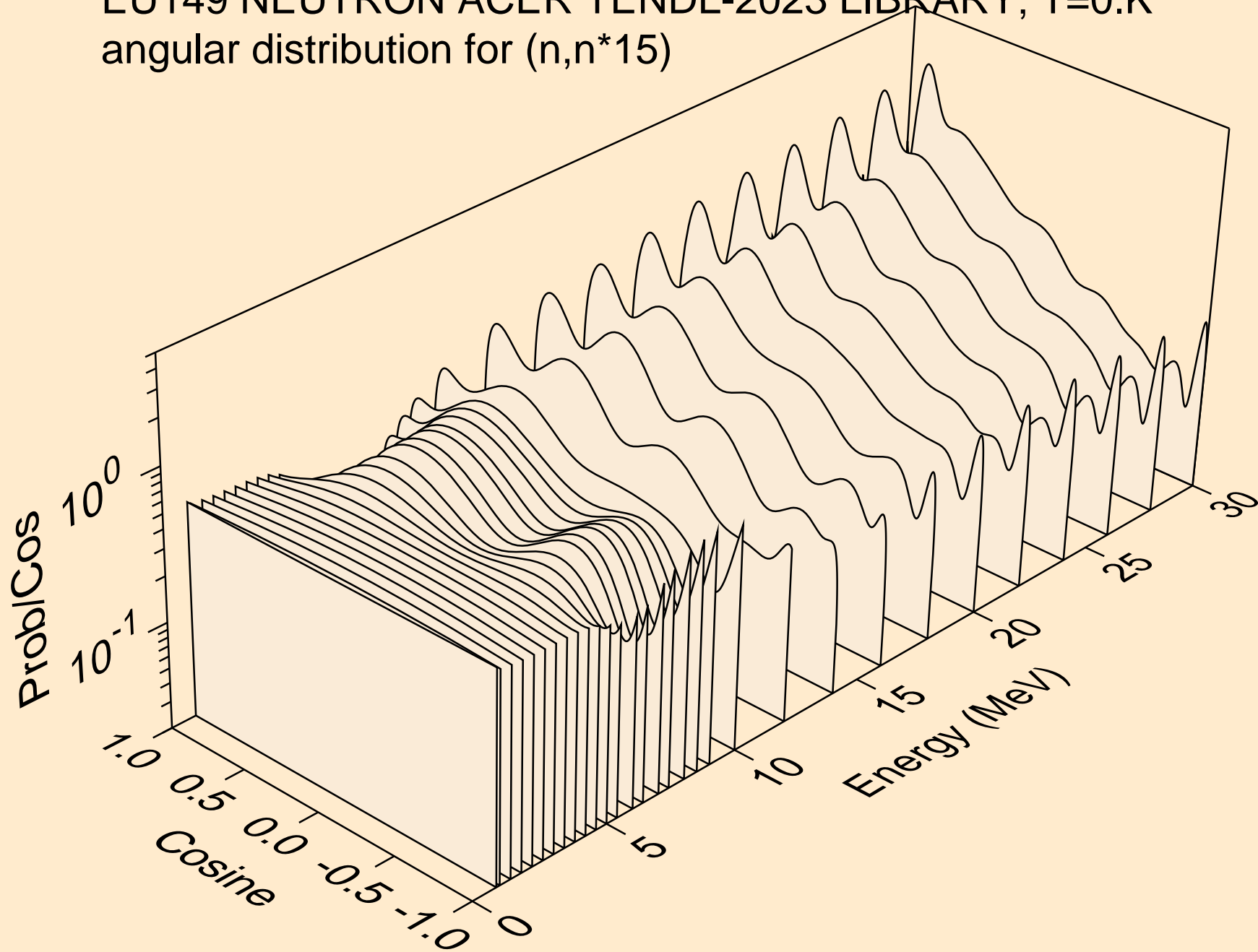
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angular distribution for (n,n\*13)



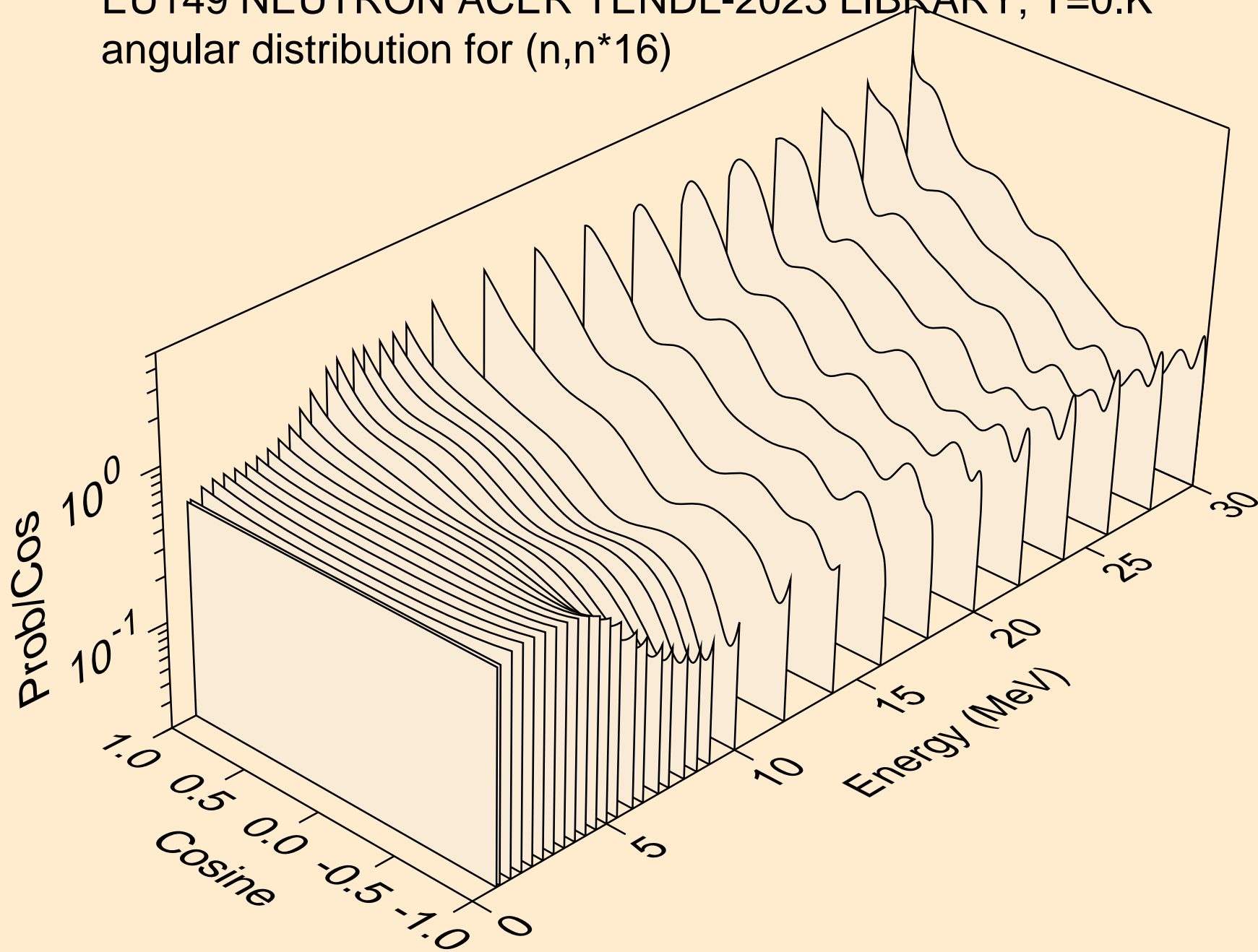
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angular distribution for (n,n\*14)



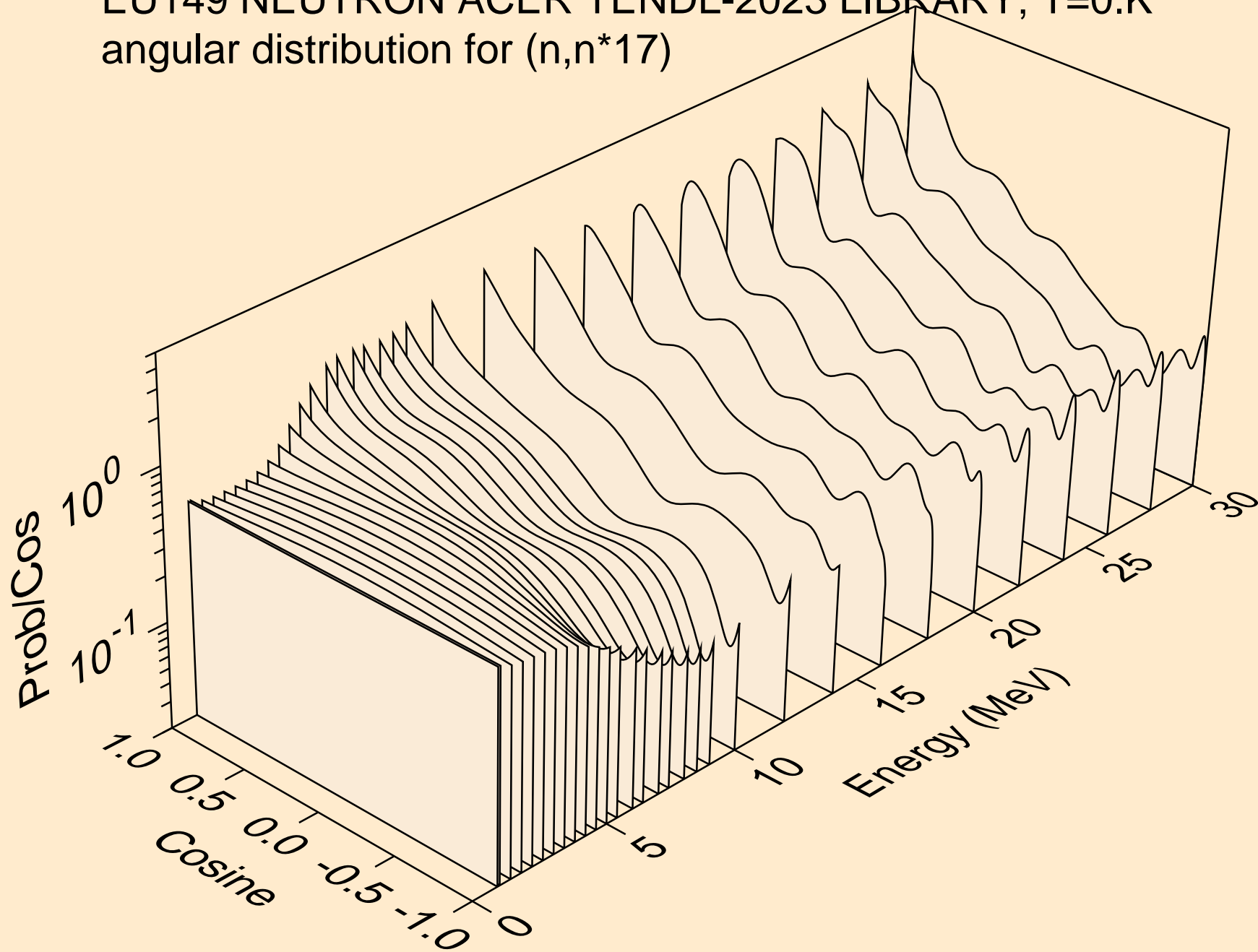
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angular distribution for (n,n\*15)



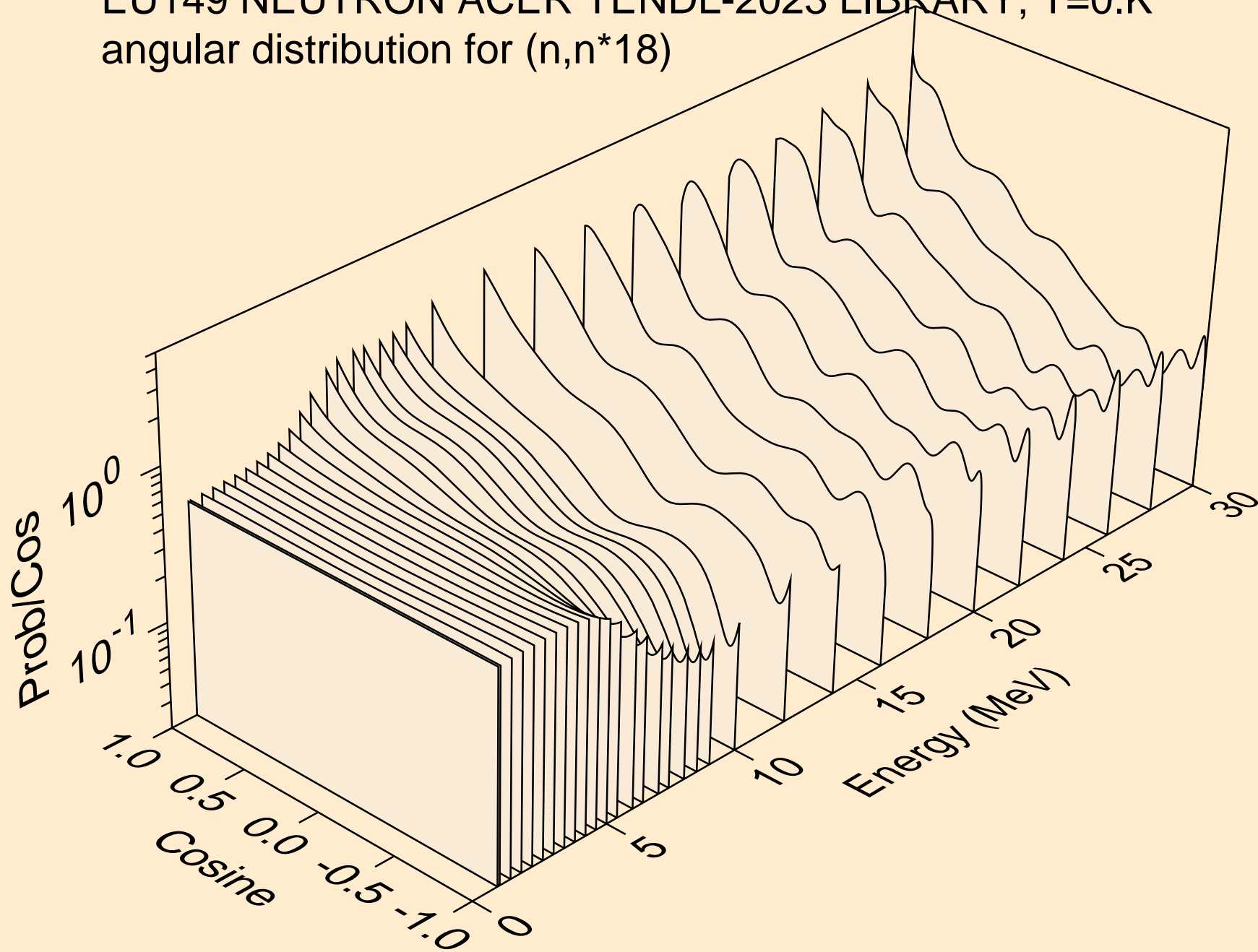
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)

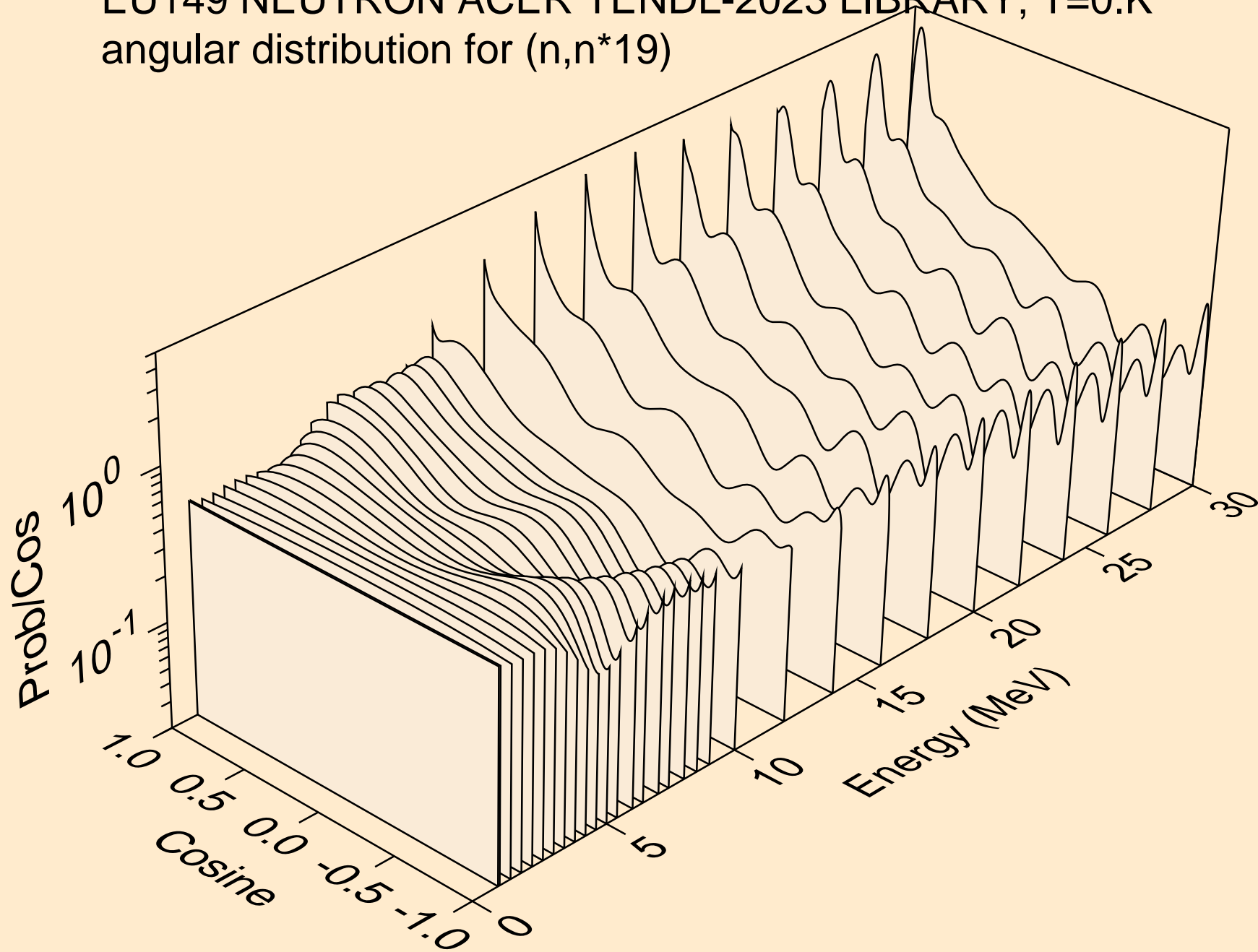


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

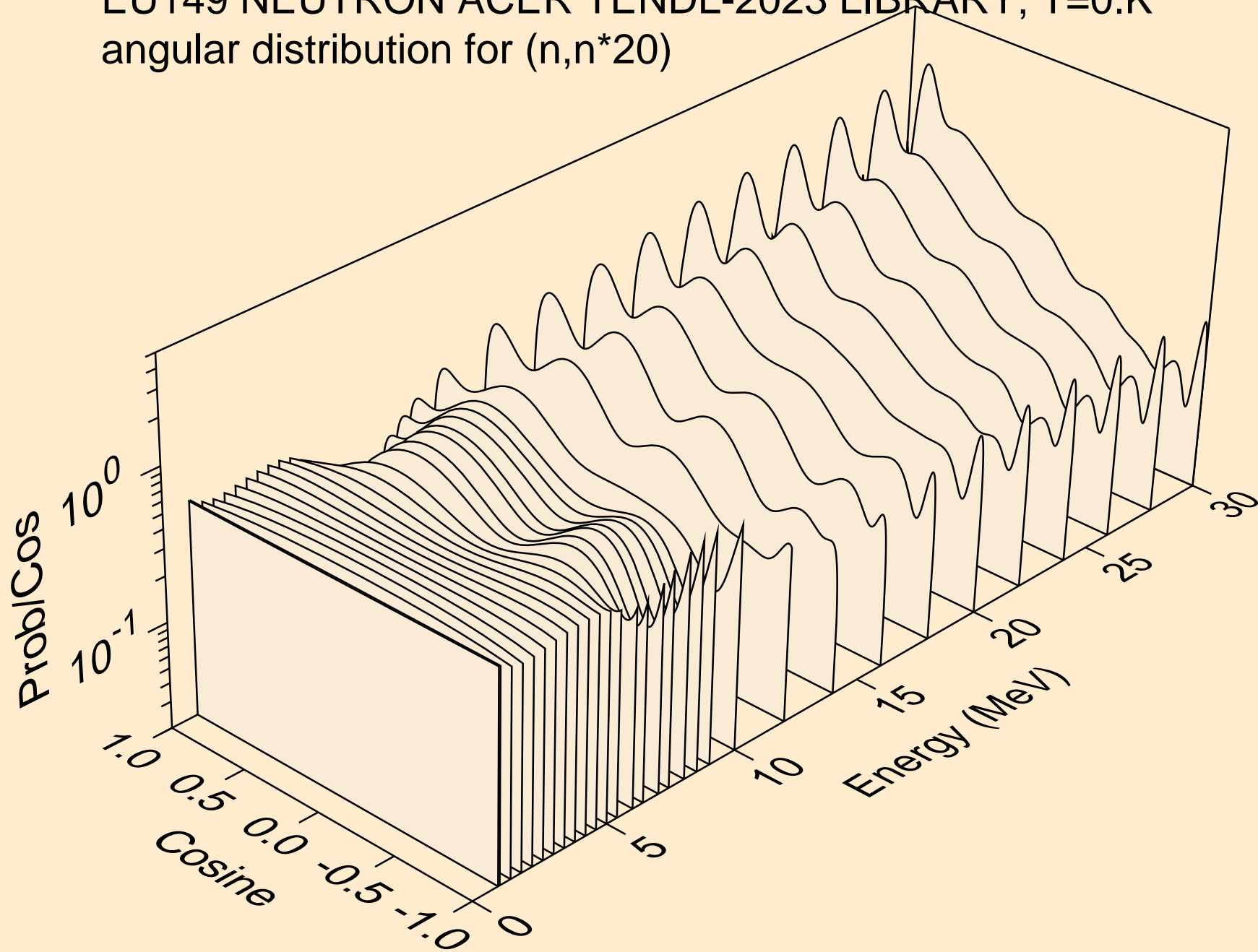




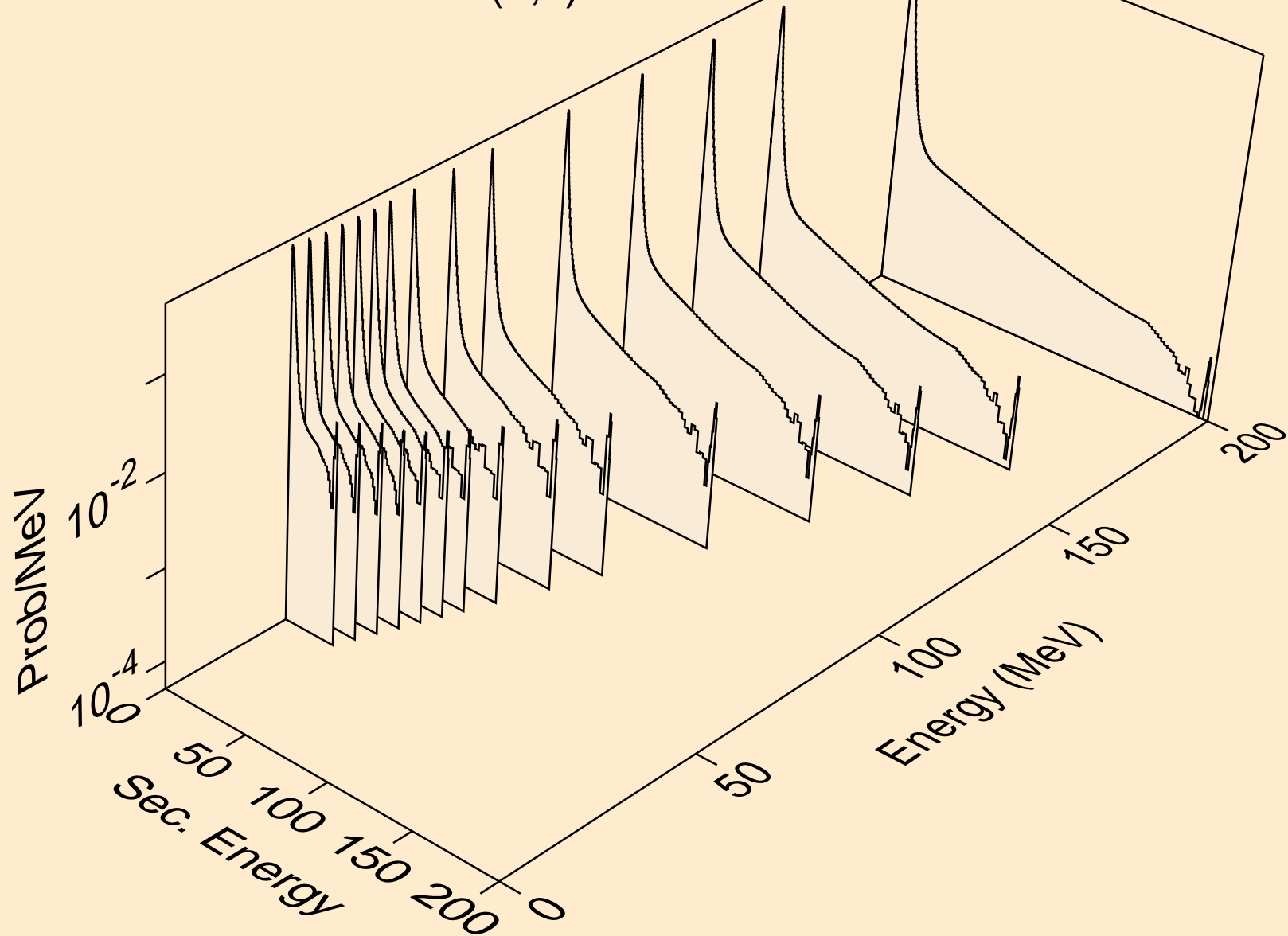
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angular distribution for (n,n\*19)



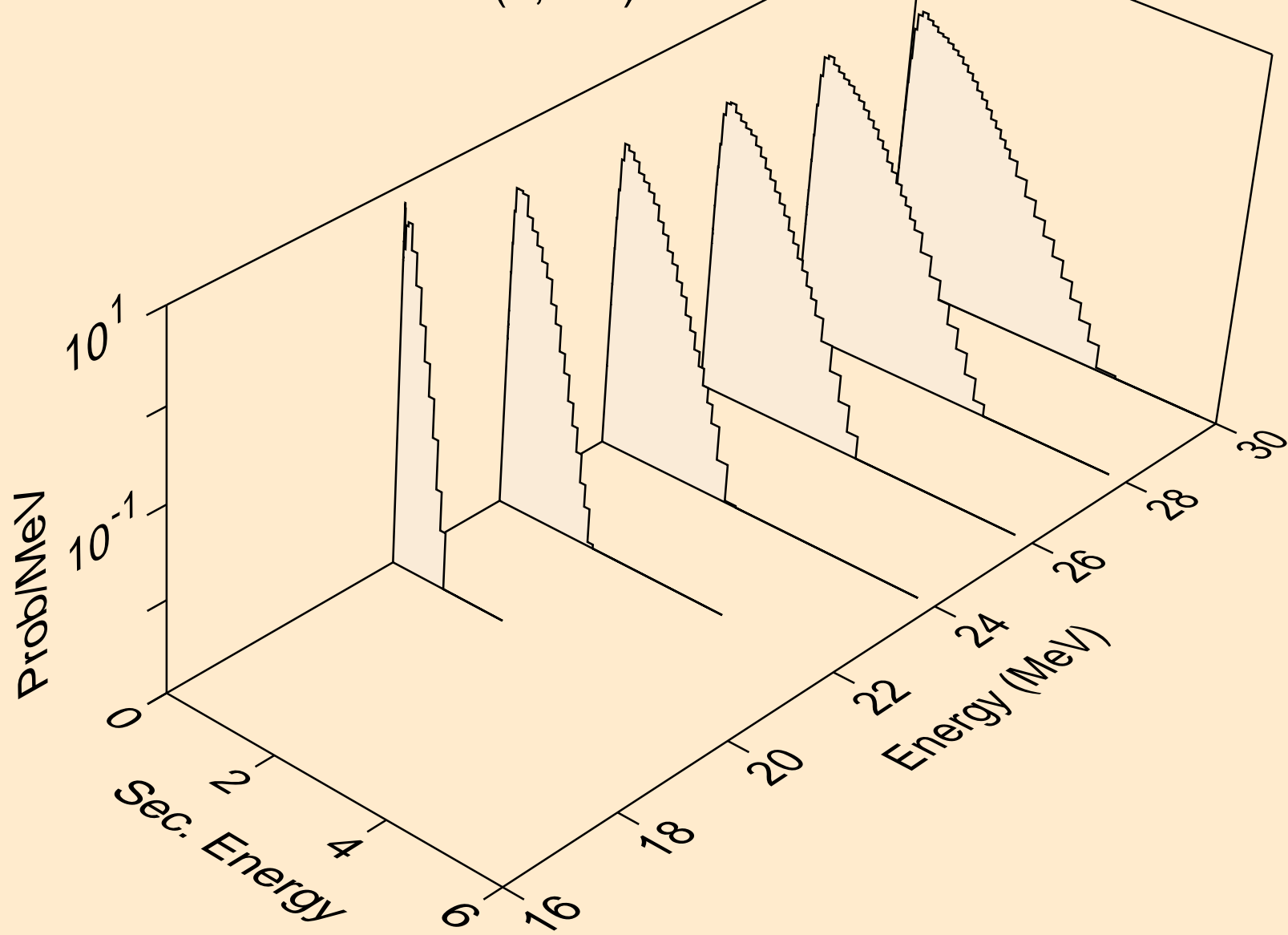
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angular distribution for (n,n\*20)



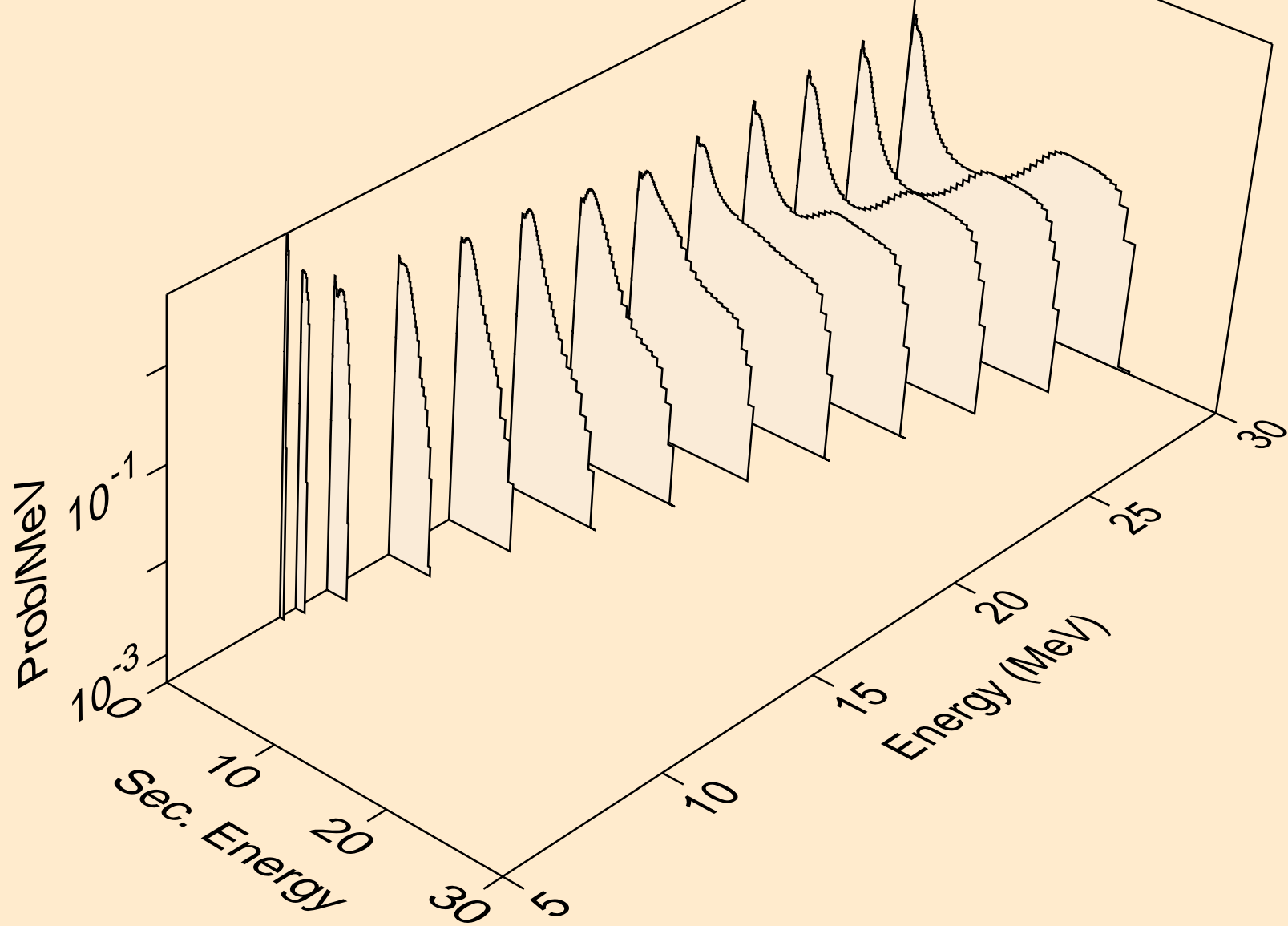
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Neutron emission for (n,x)



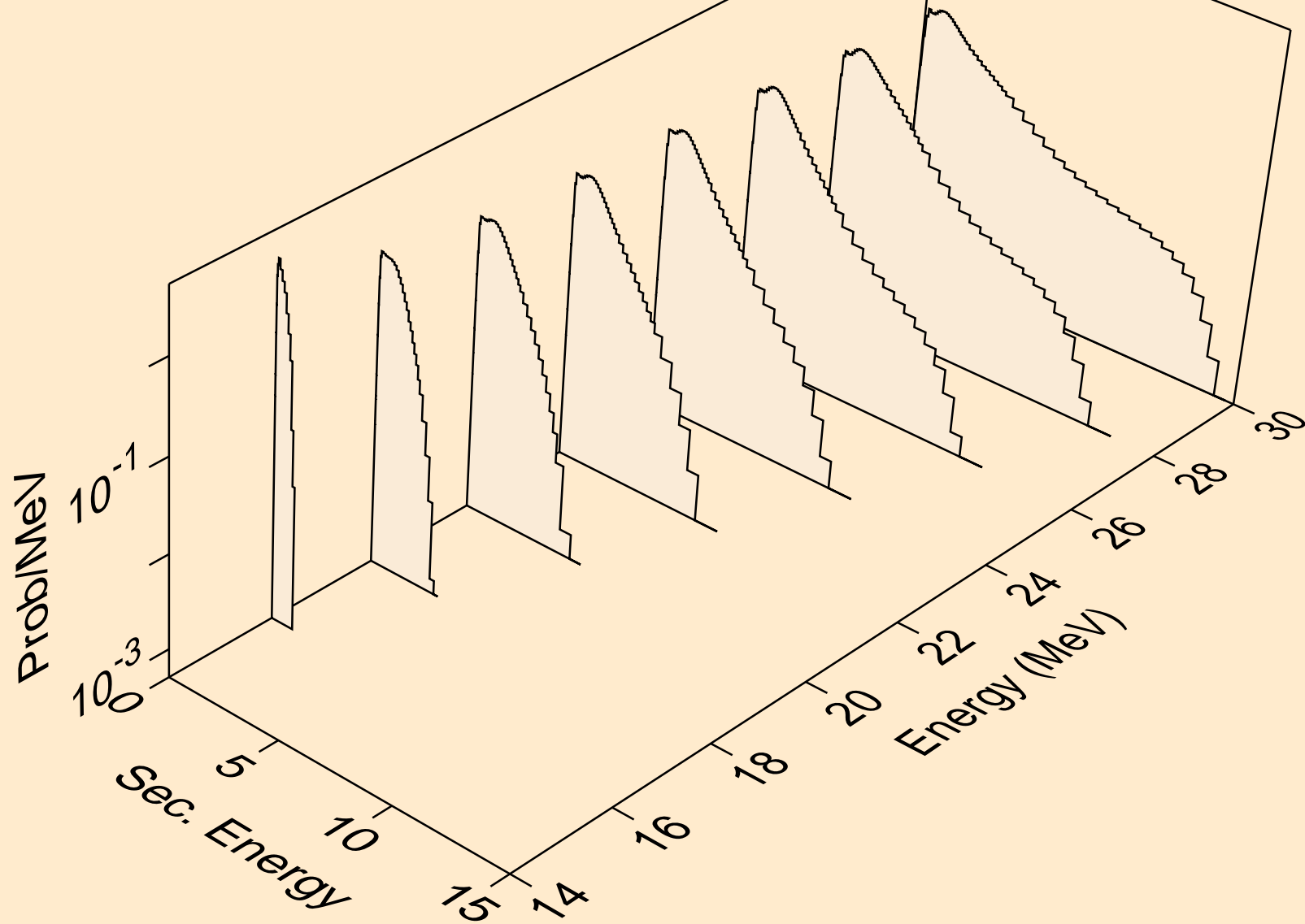
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



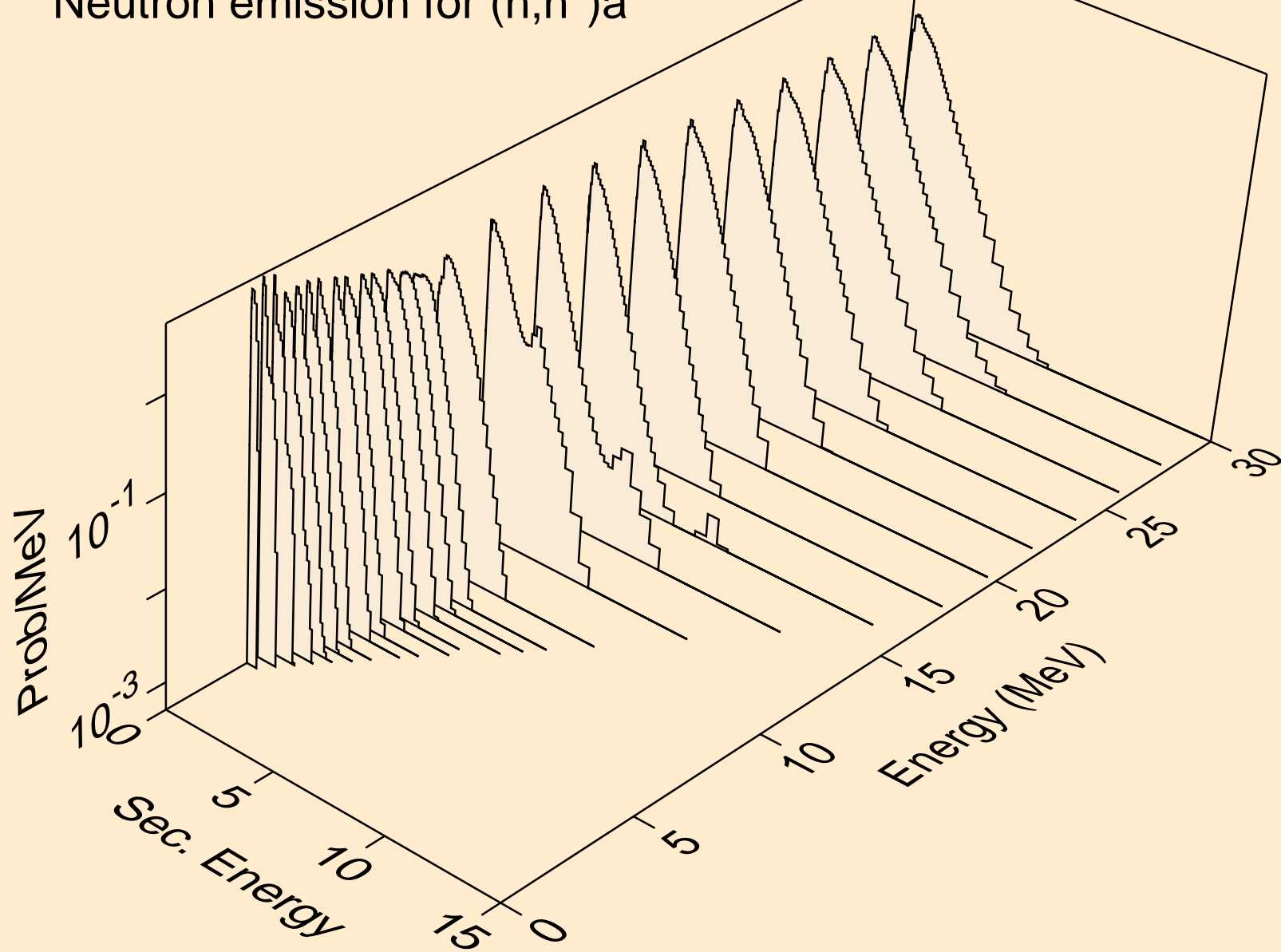
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



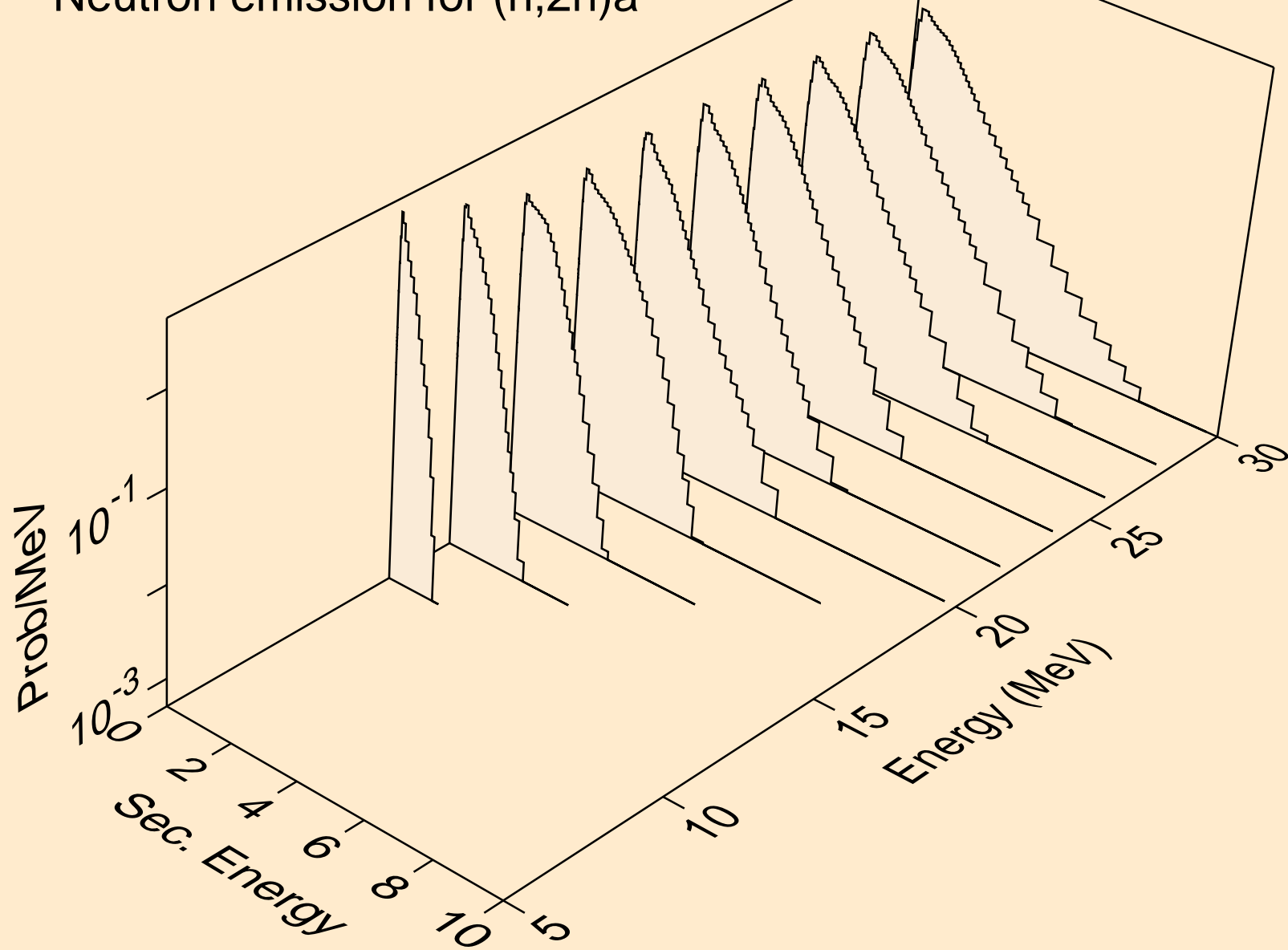
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a

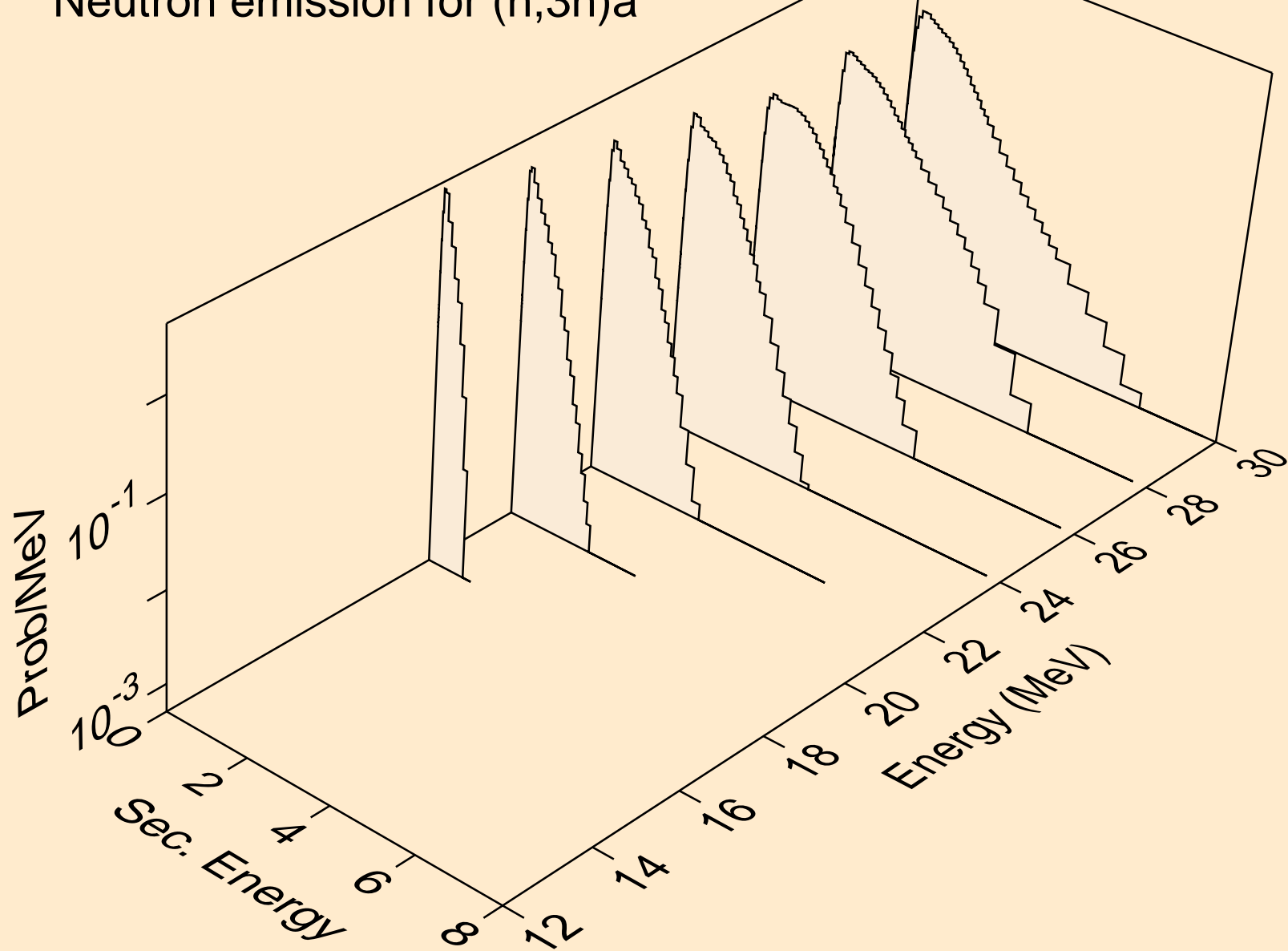


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a

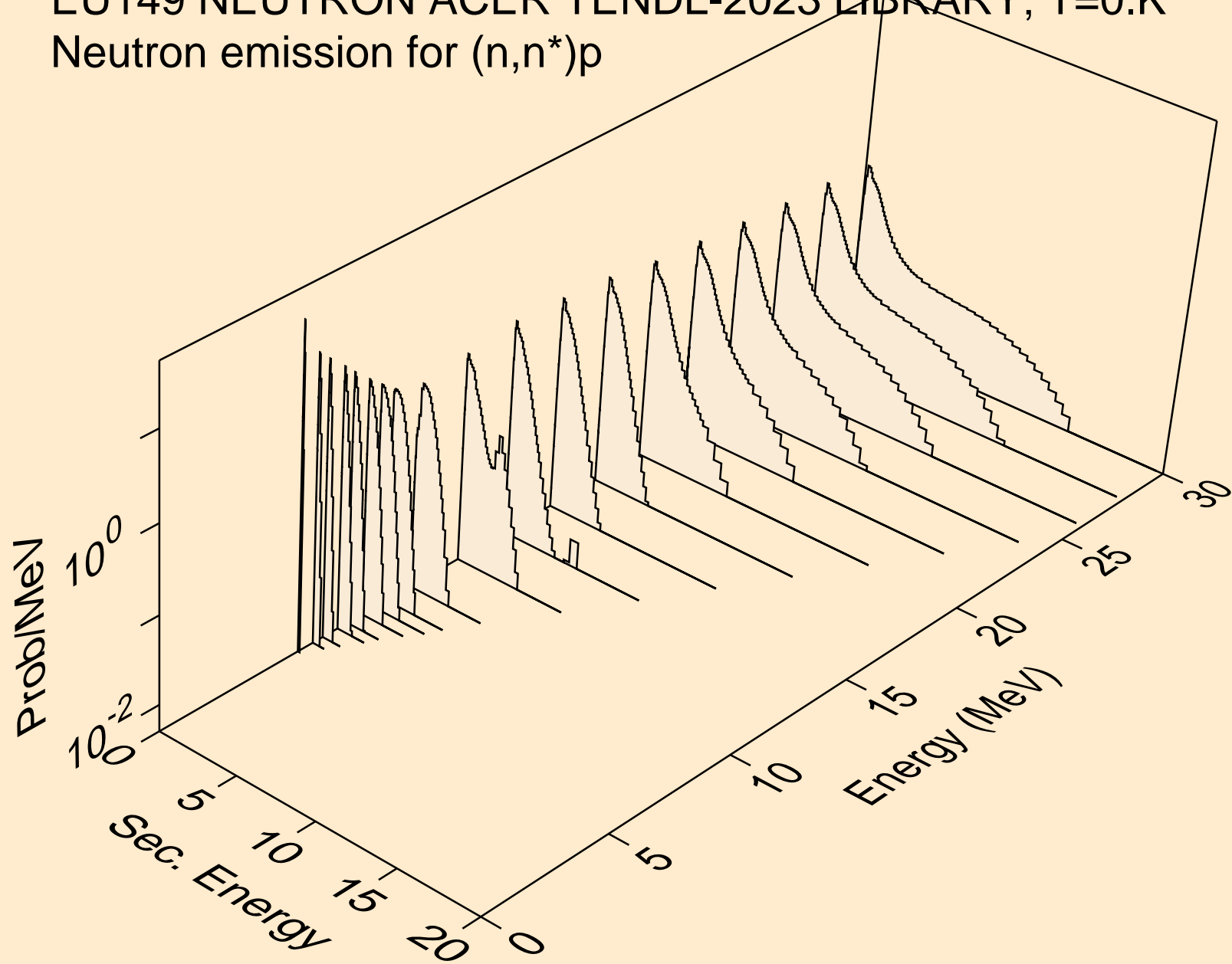




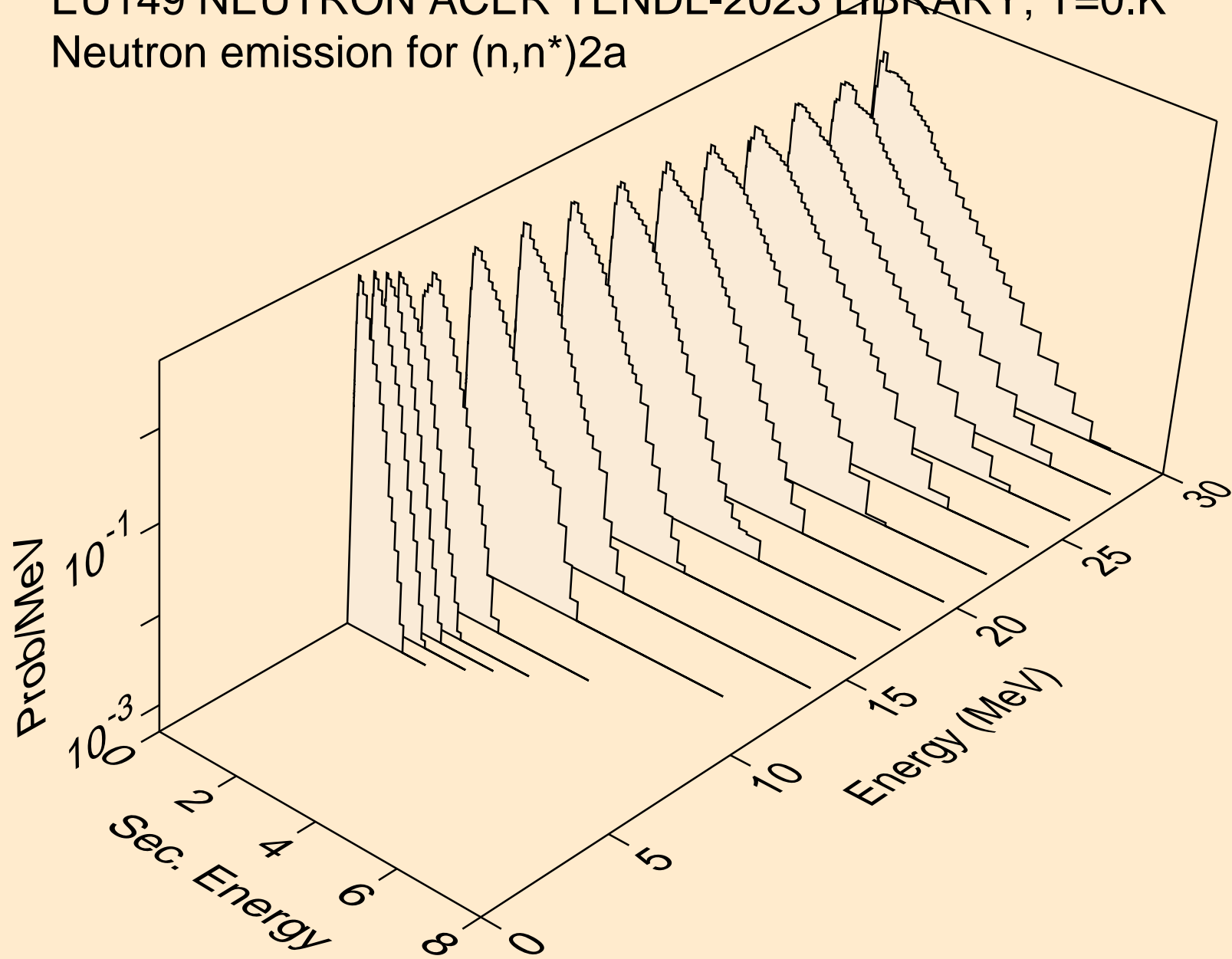
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



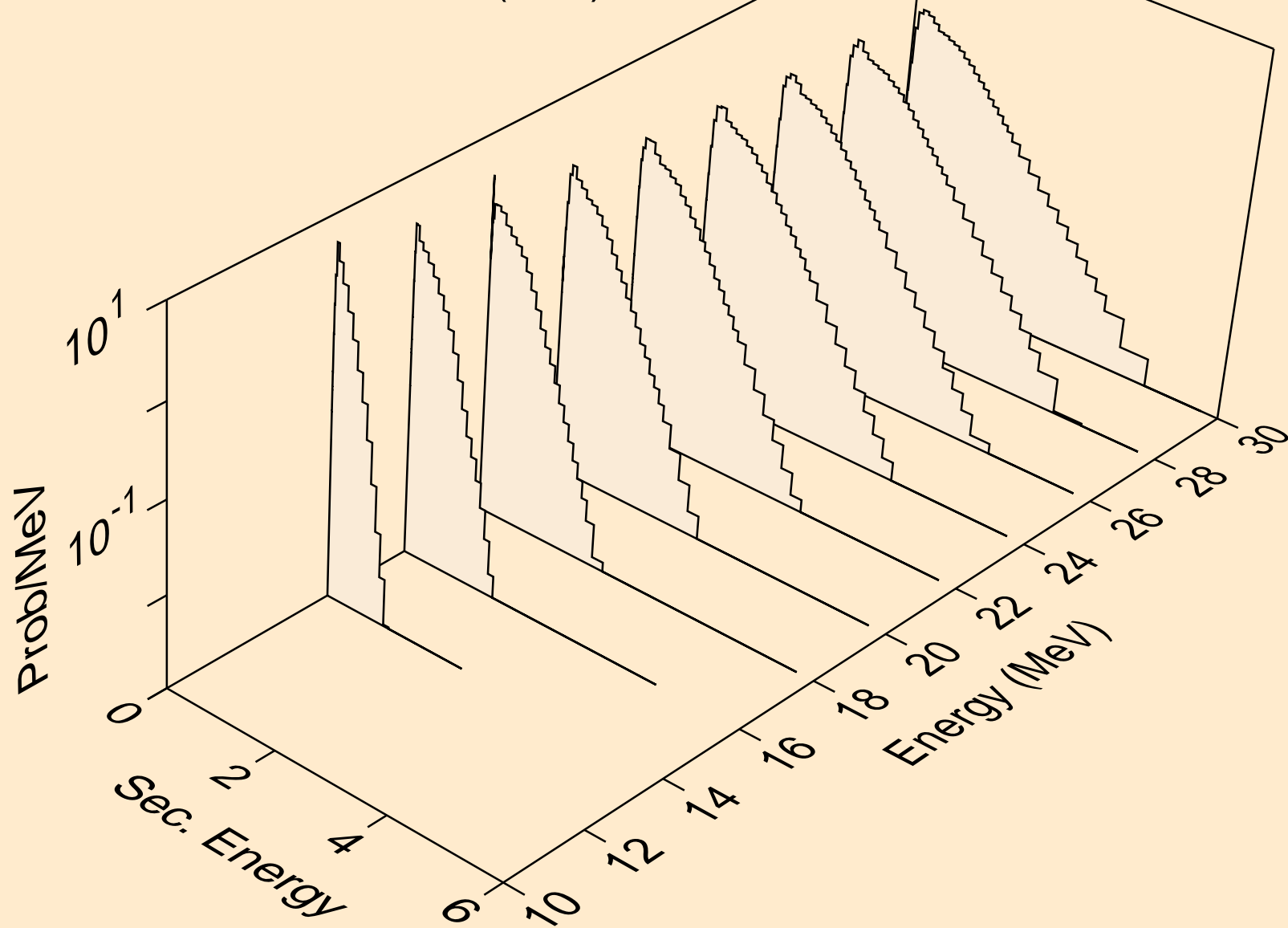
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Neutron emission for (n,n\*)p



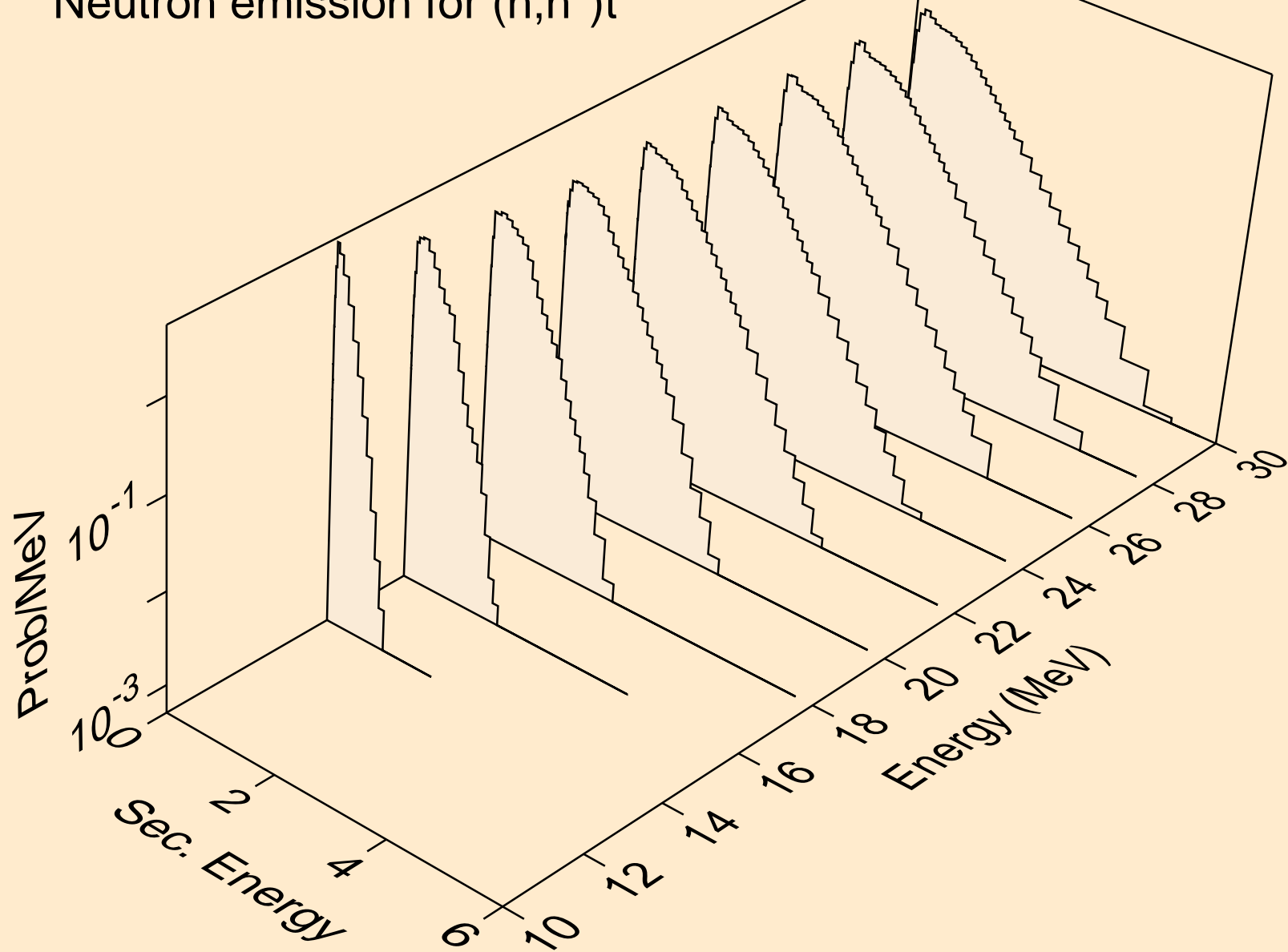
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



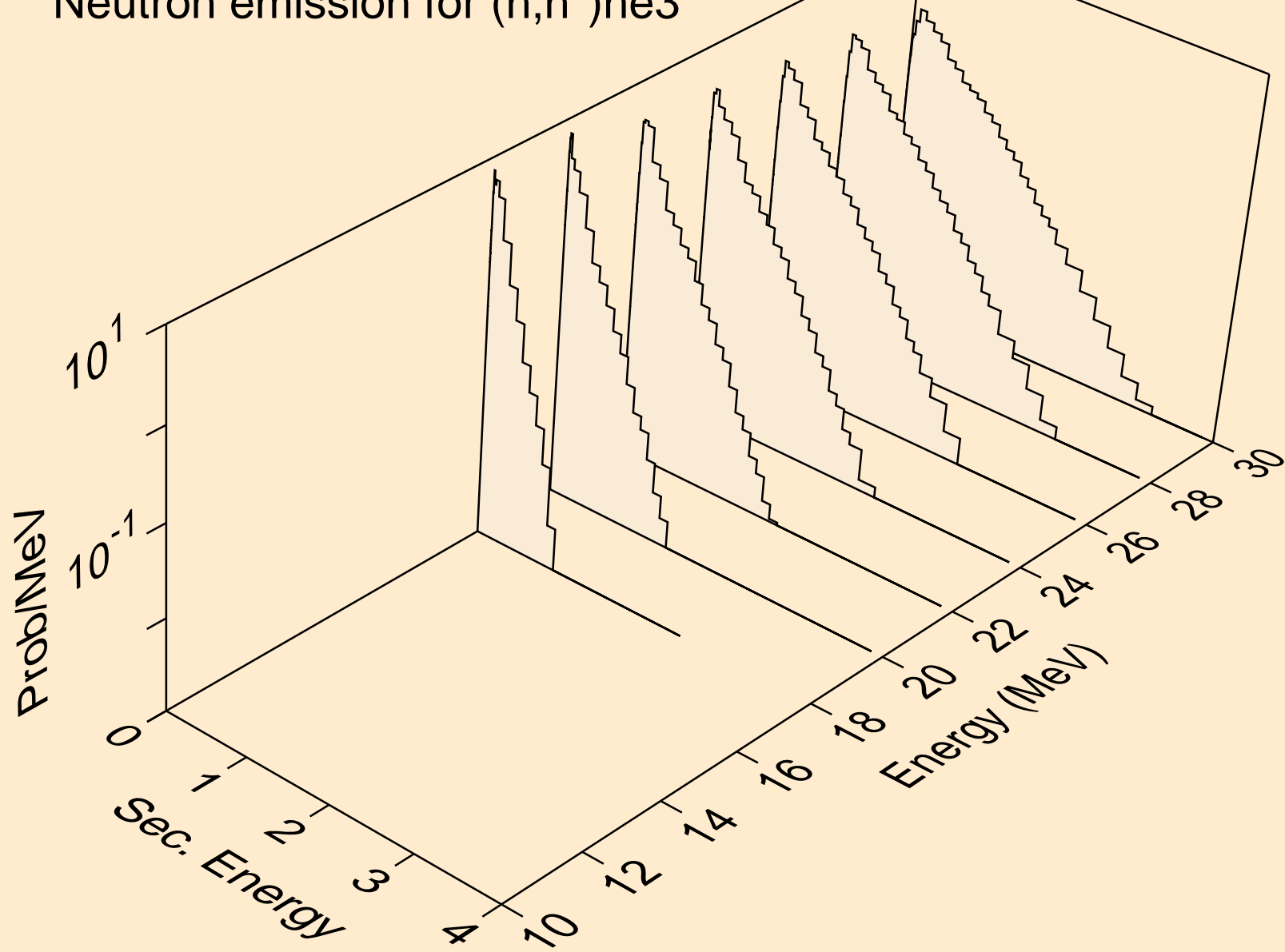
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Neutron emission for (n,n\*)d



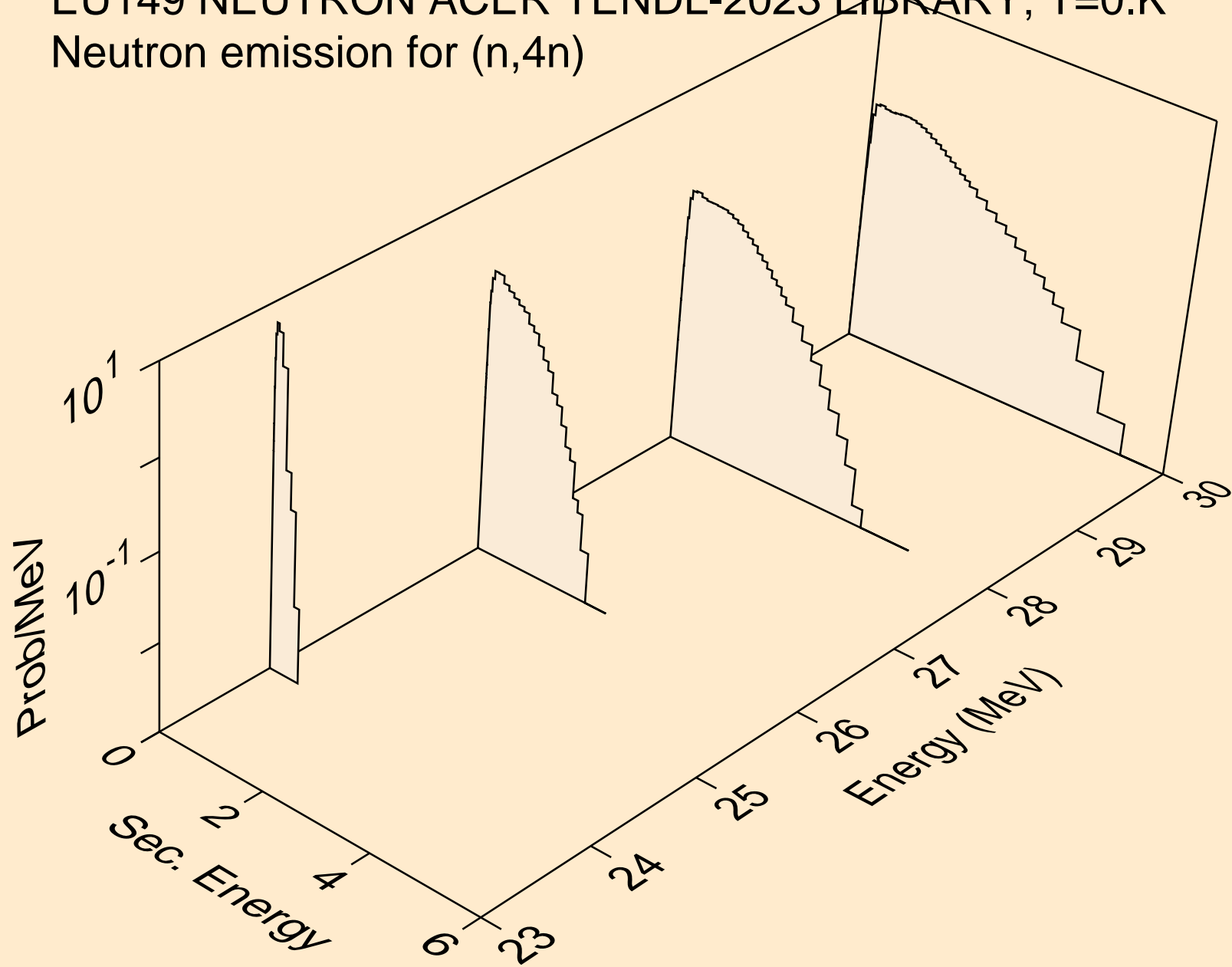
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Neutron emission for (n,n\*)t



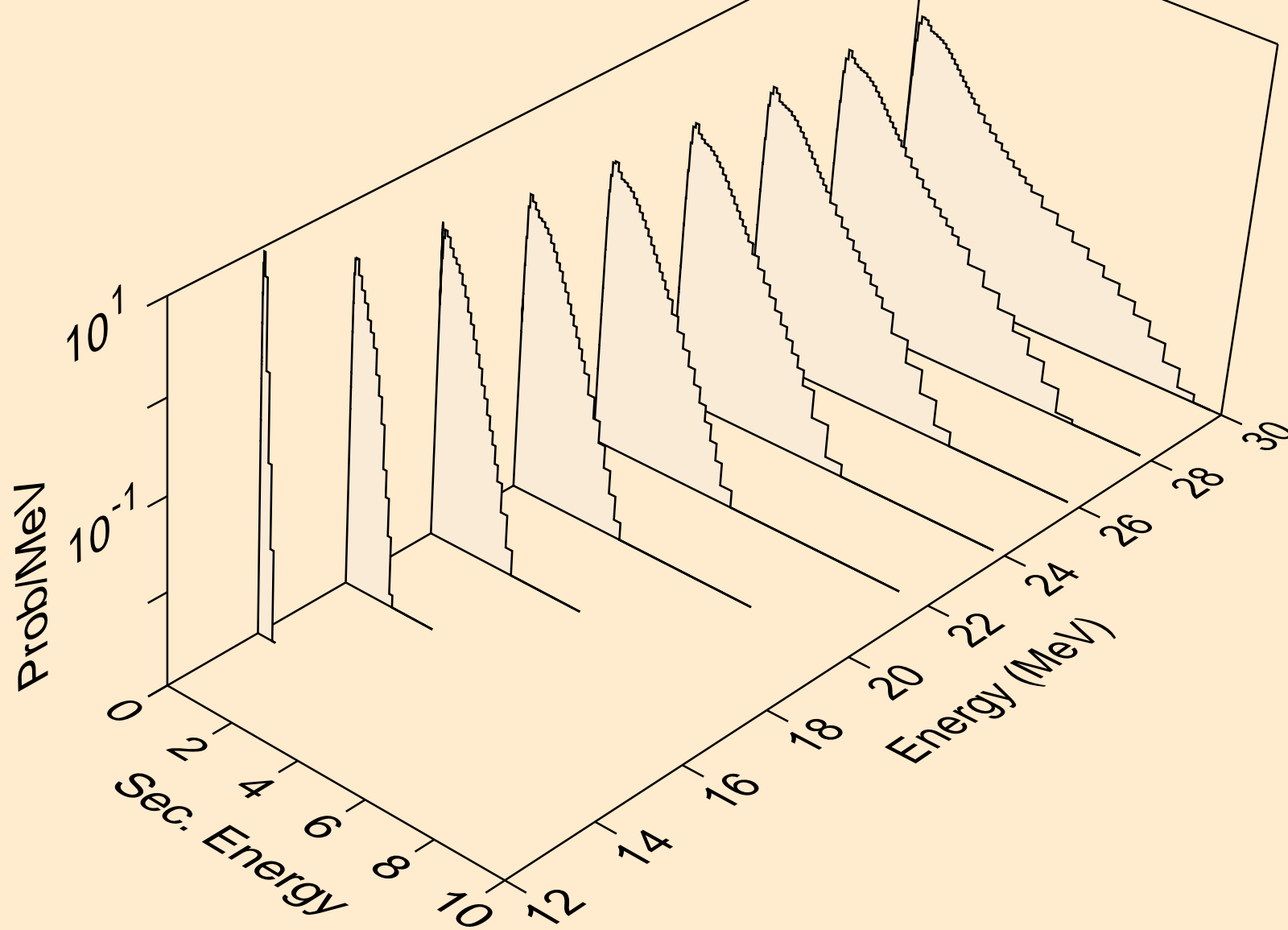
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)

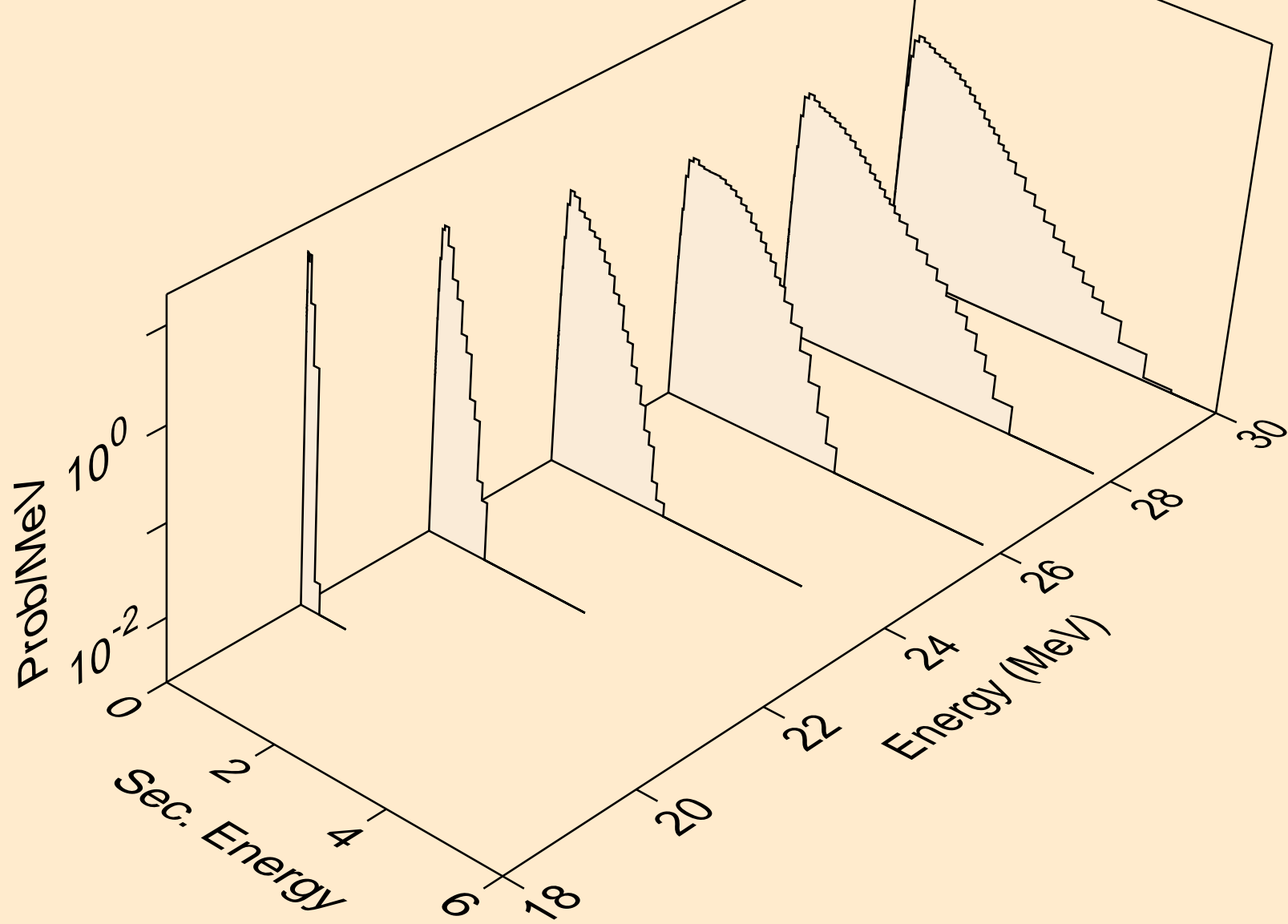


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)

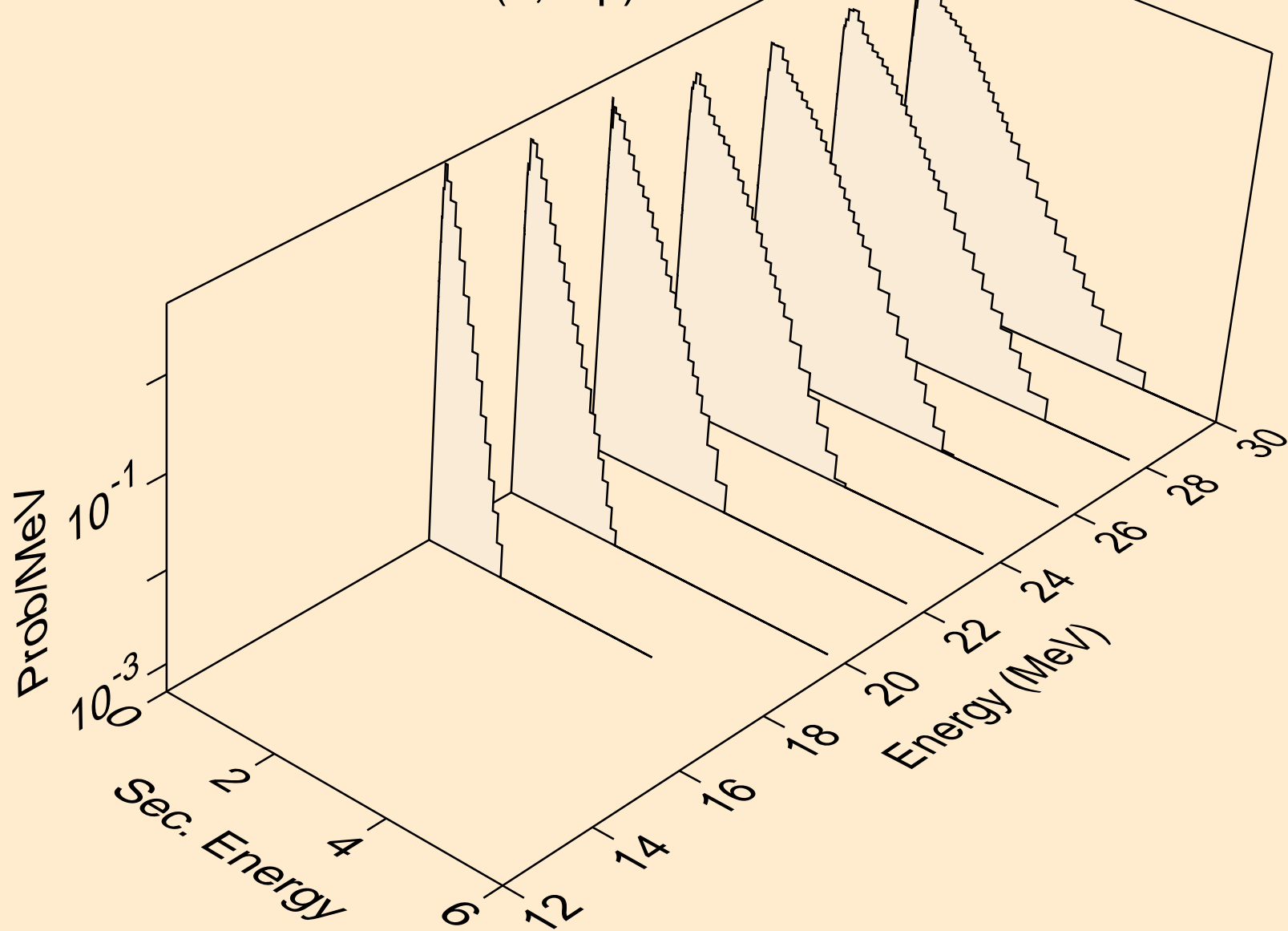




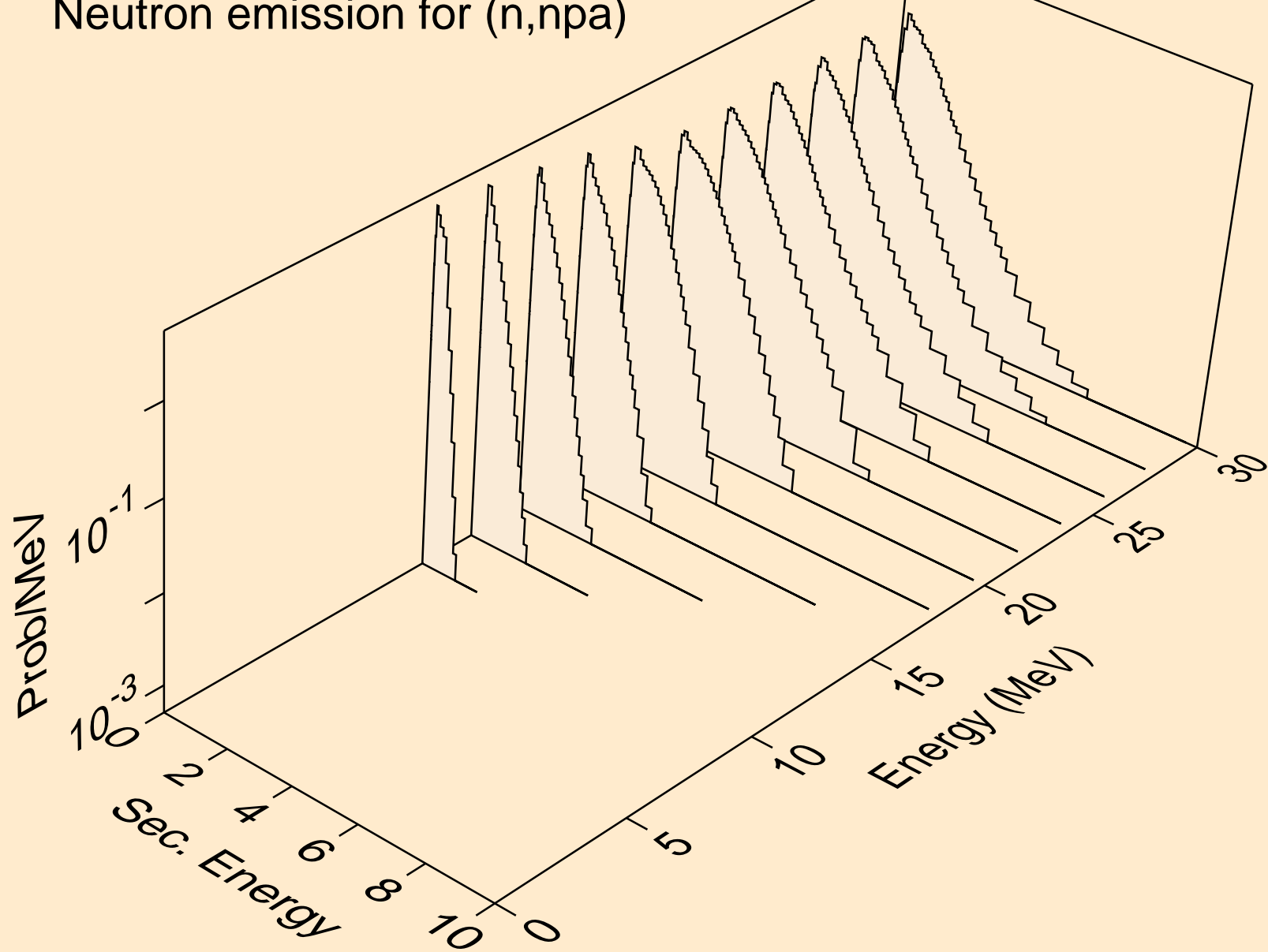
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Neutron emission for (n,3np)



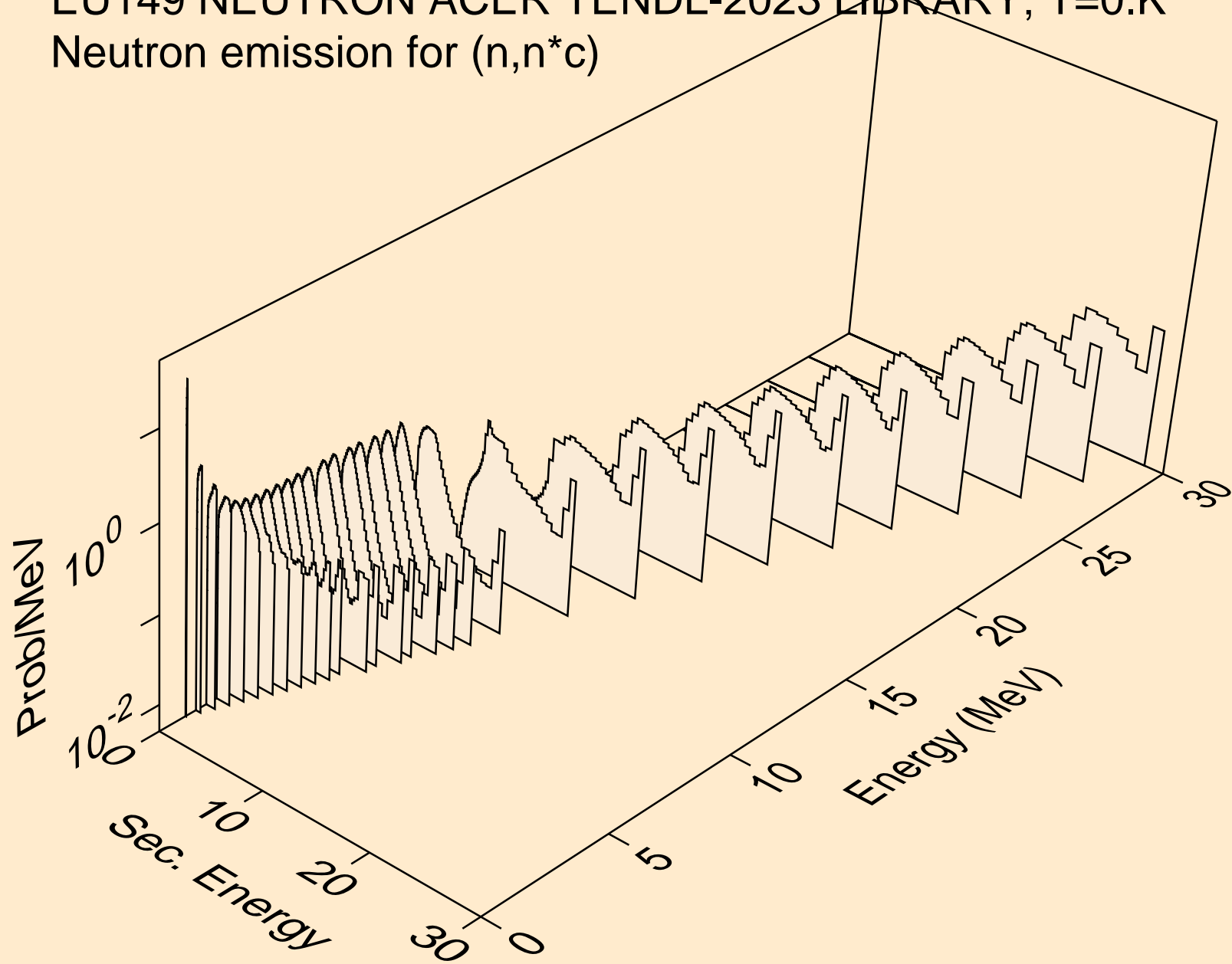
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Neutron emission for (n,n2p)



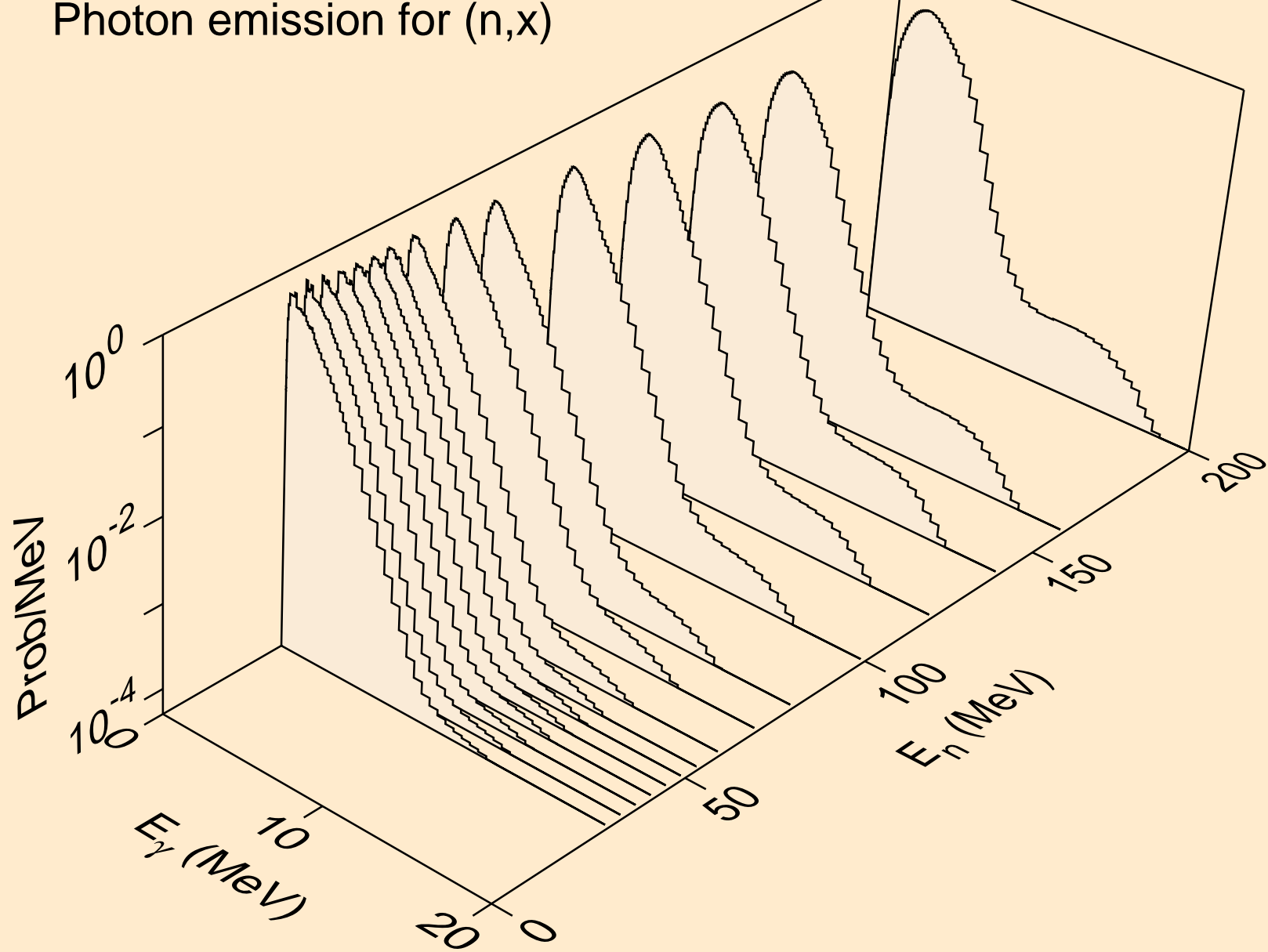
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



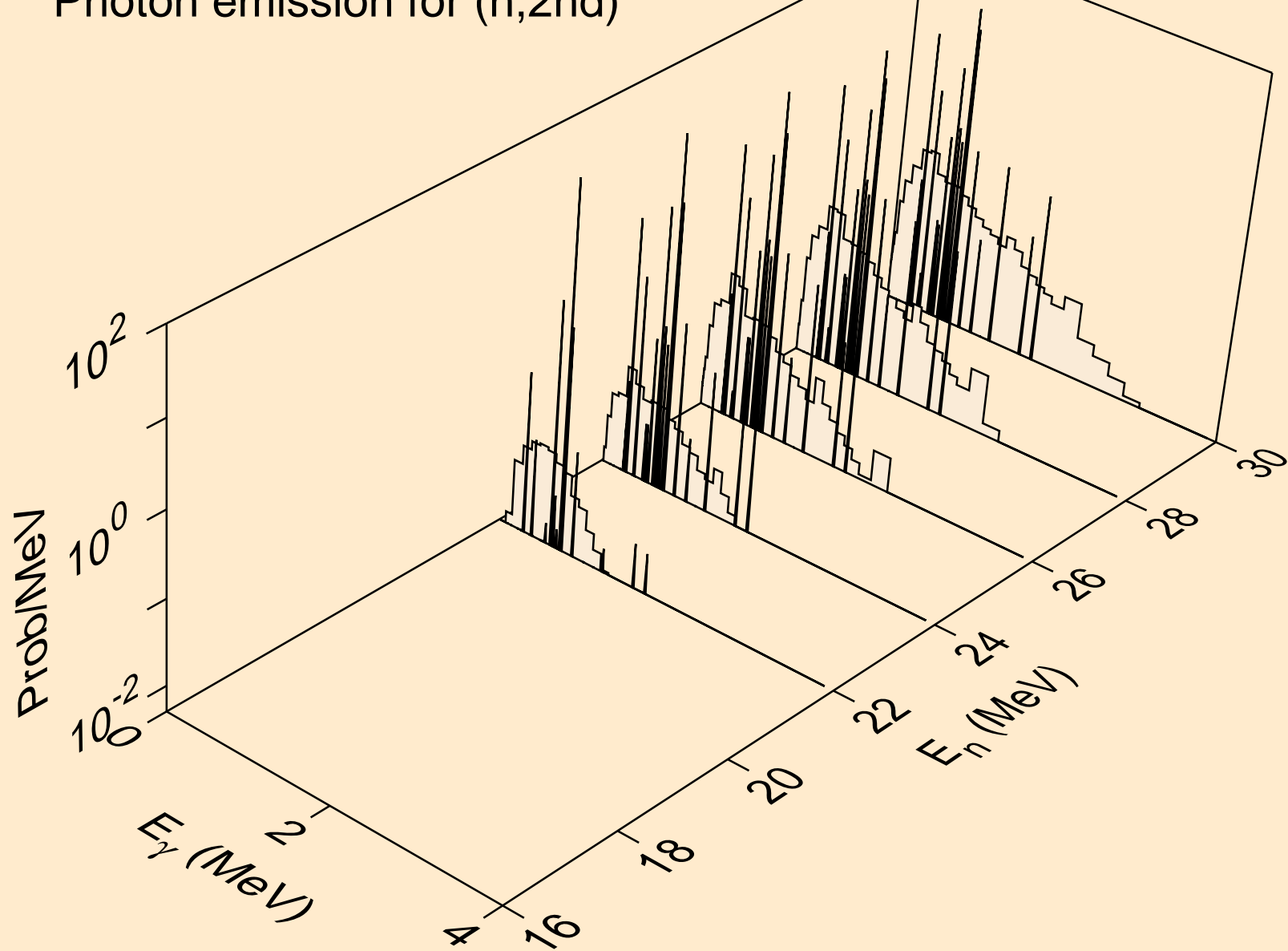
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



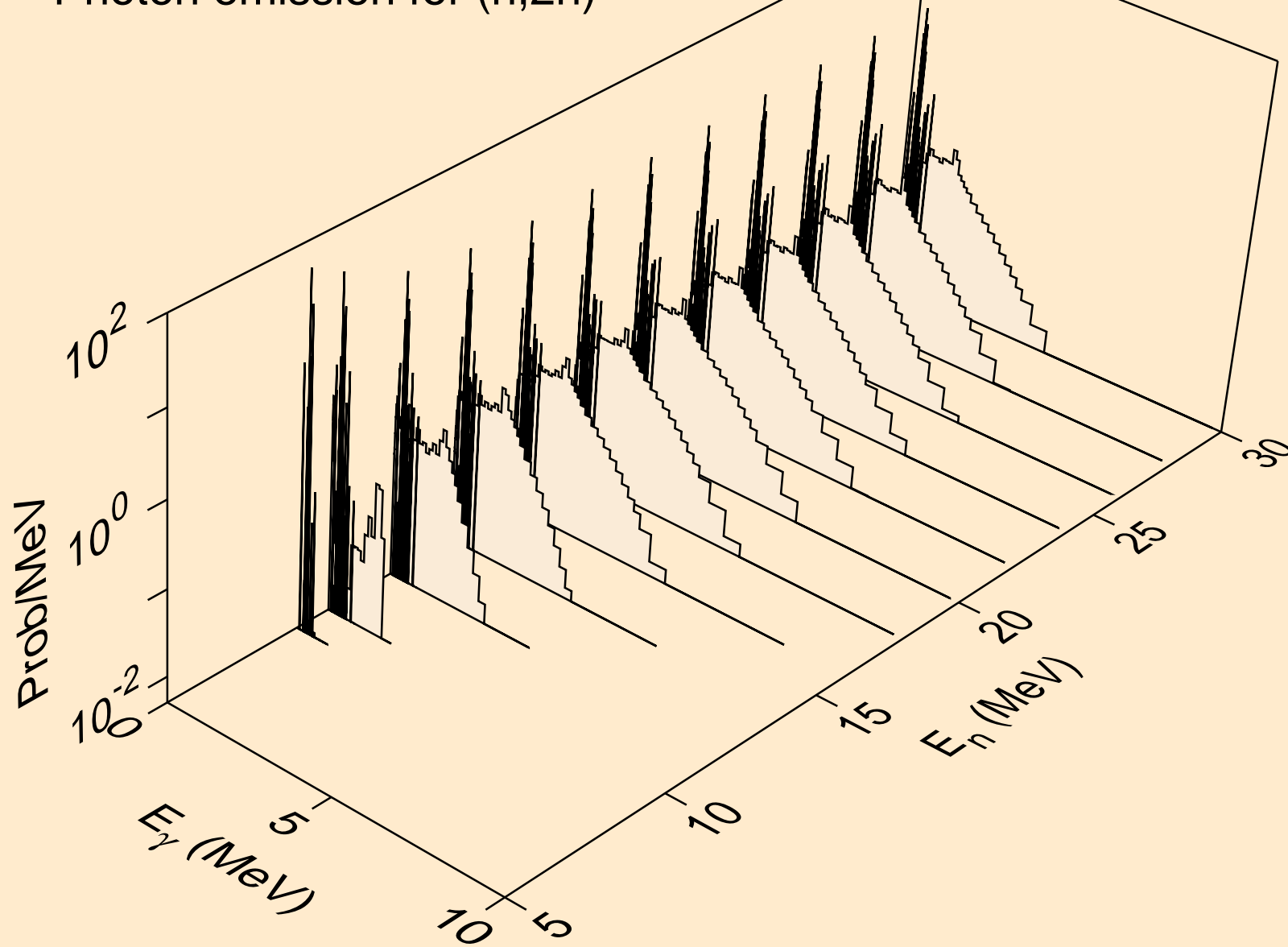
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



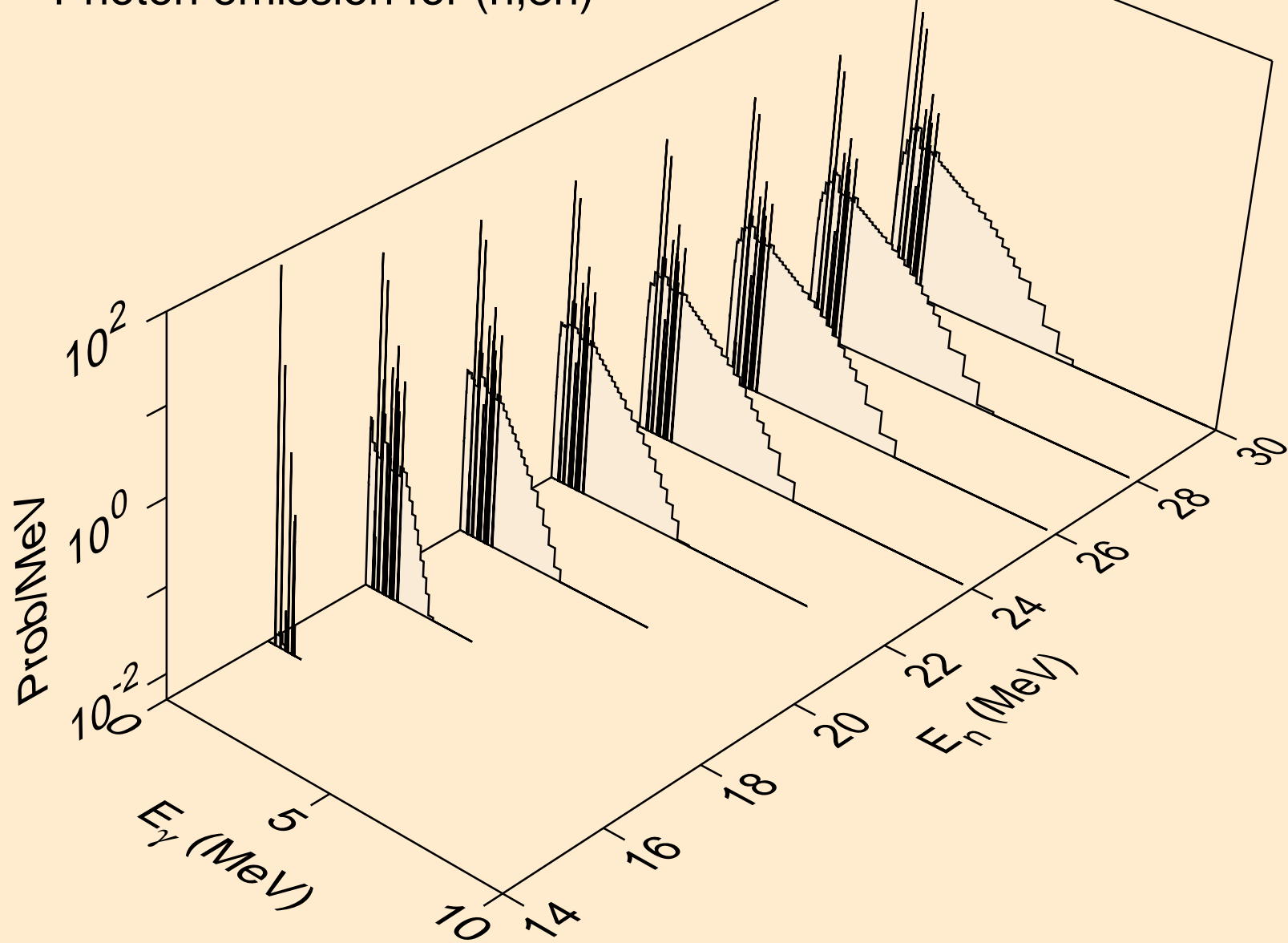
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

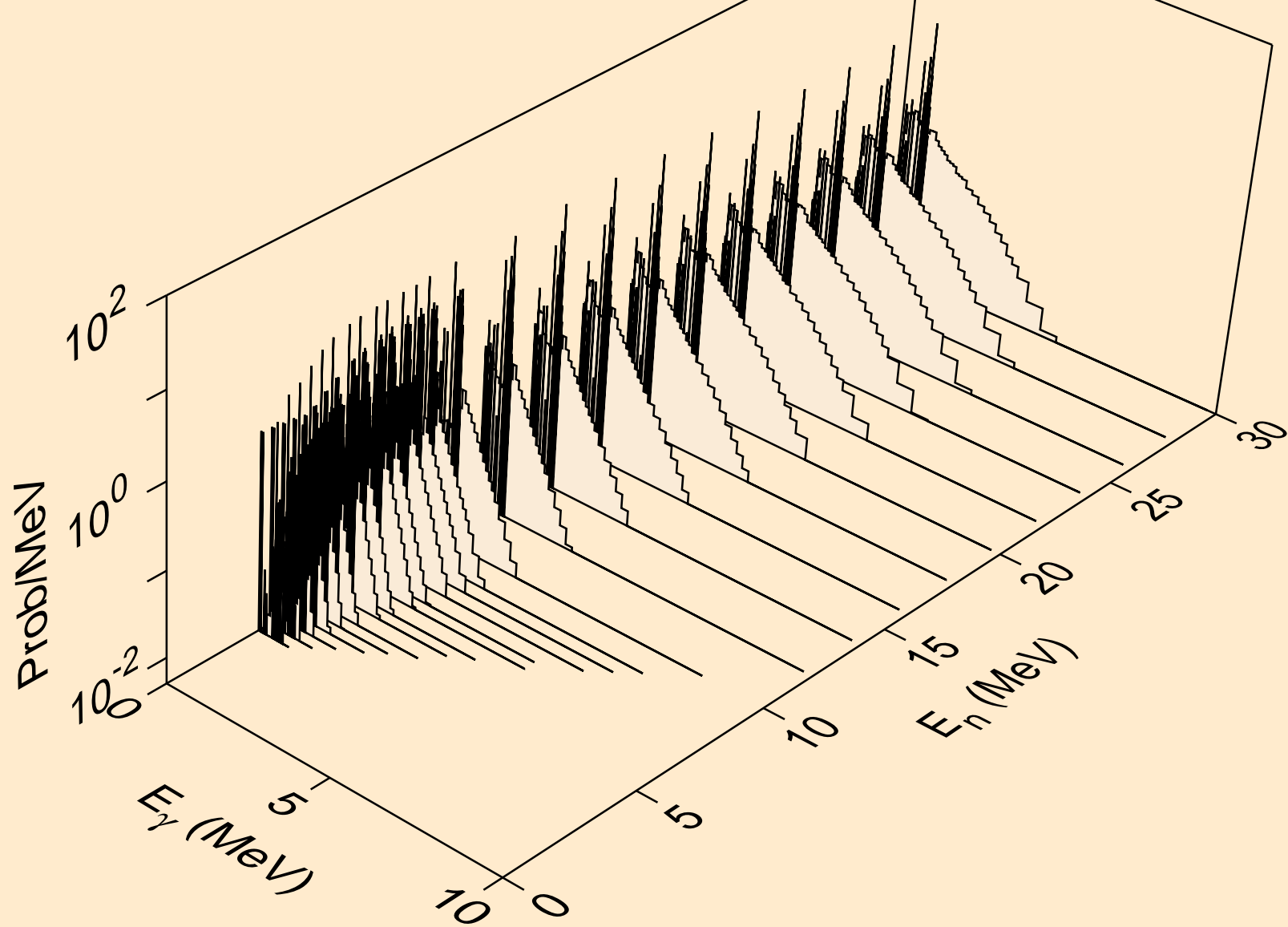


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

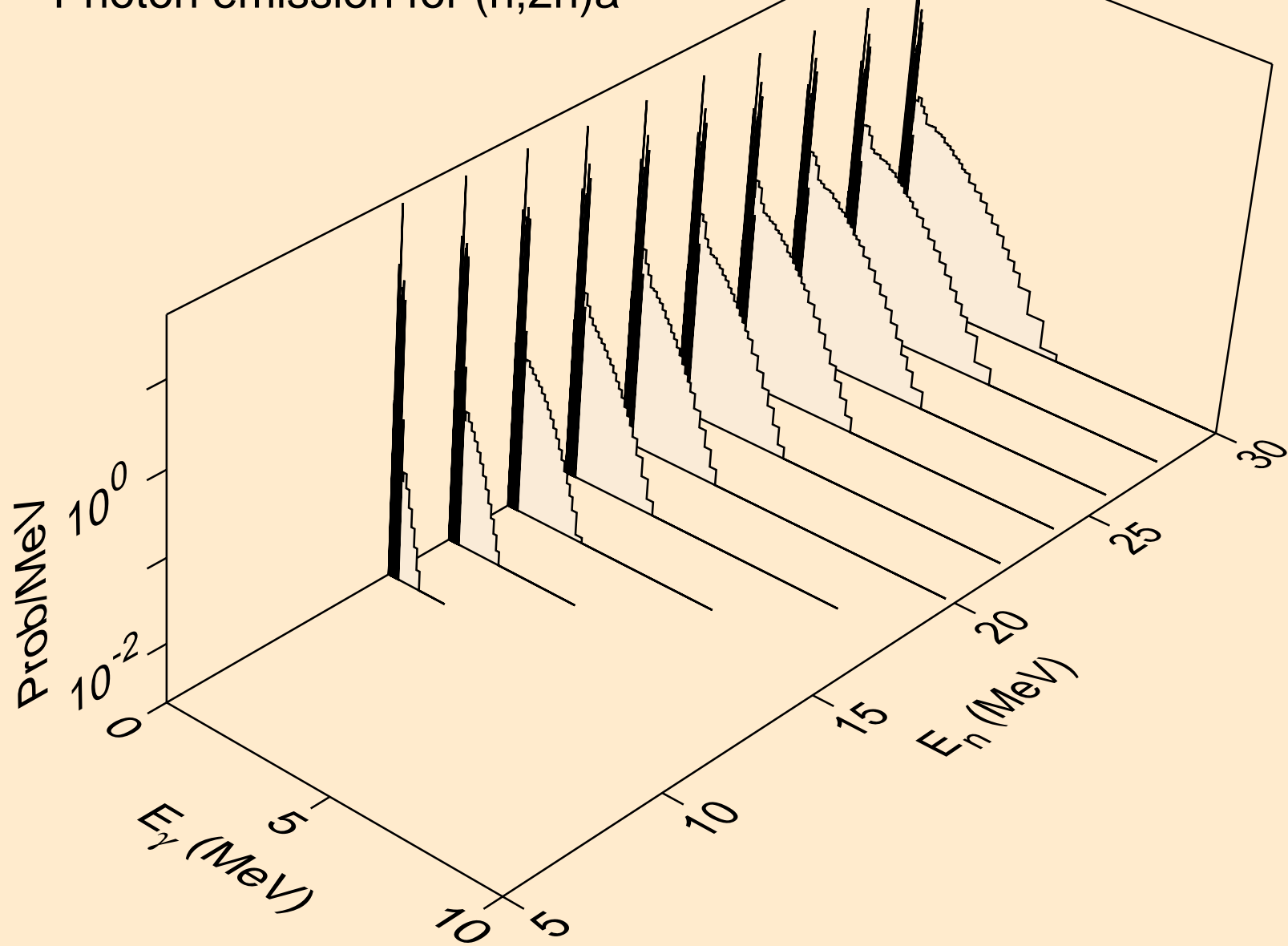




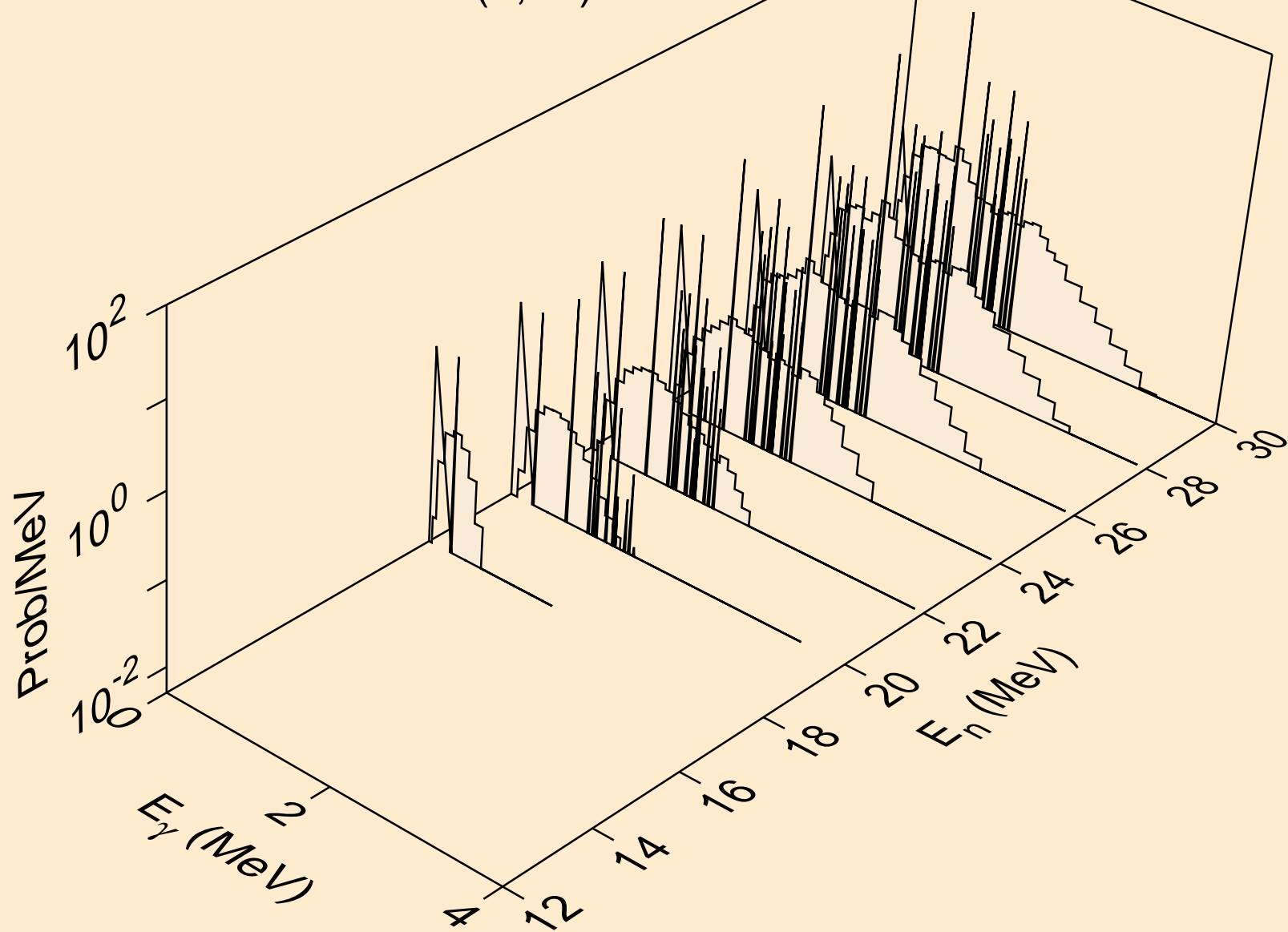
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



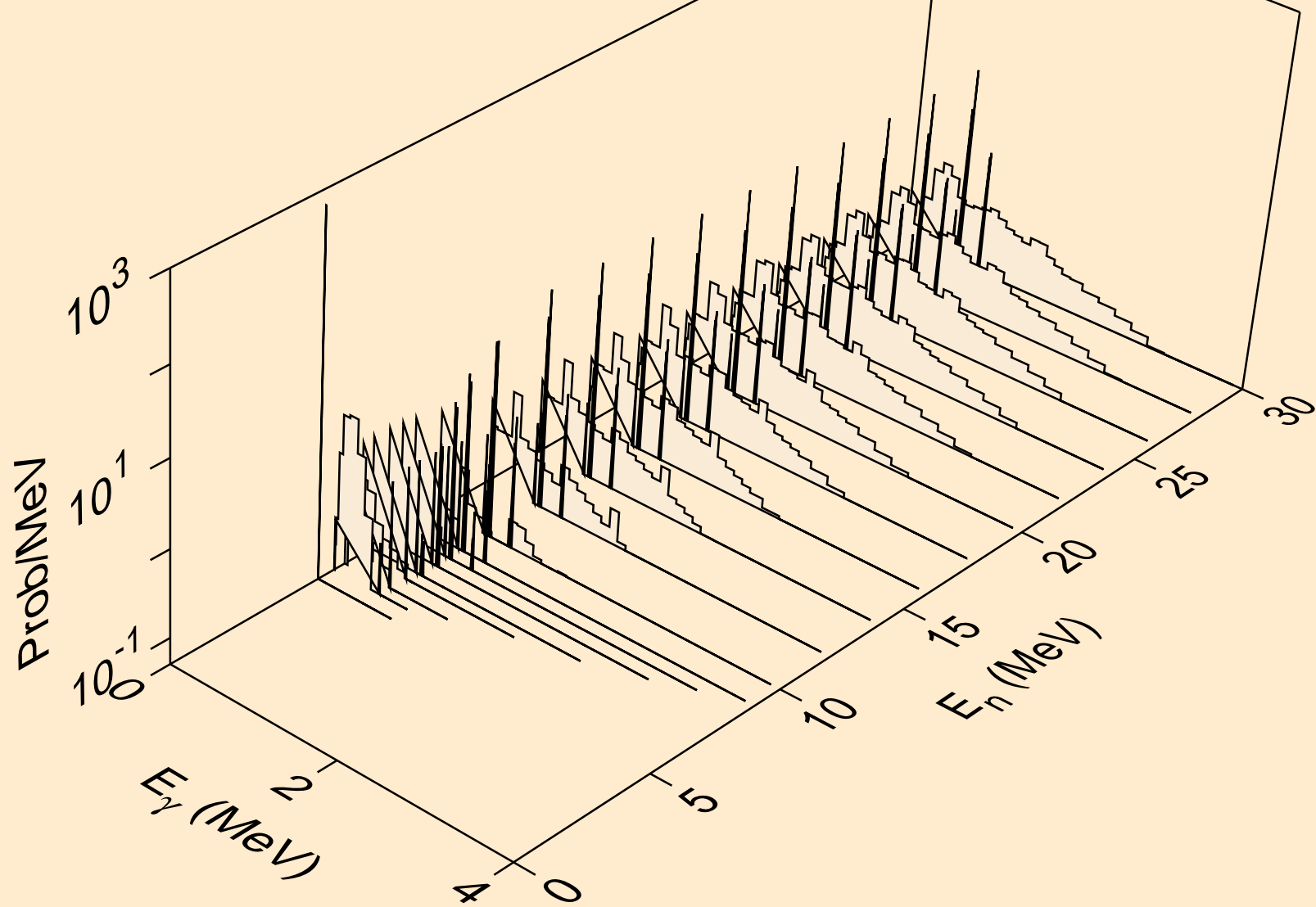
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Photon emission for (n,2n)a



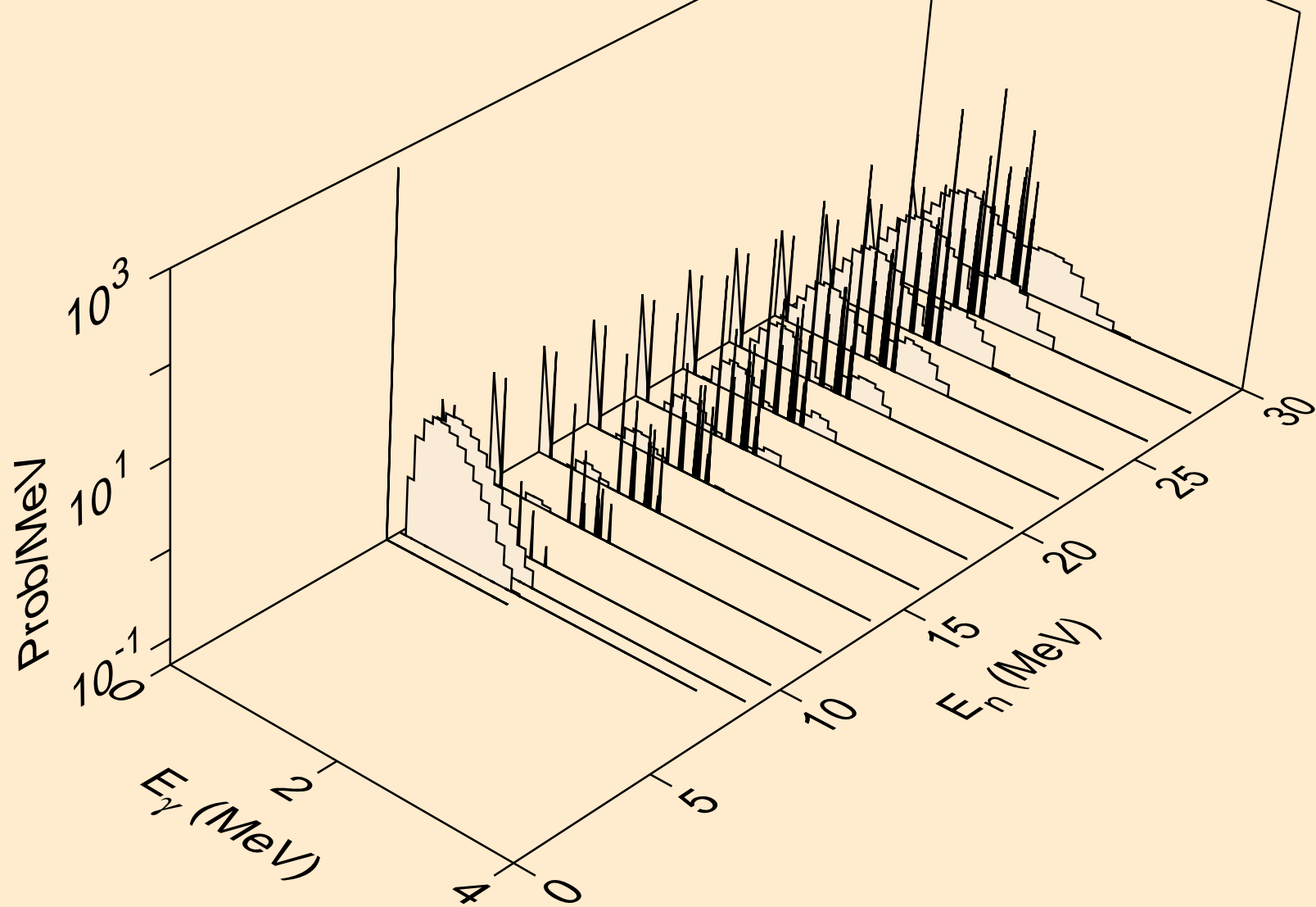
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Photon emission for (n,3n)a



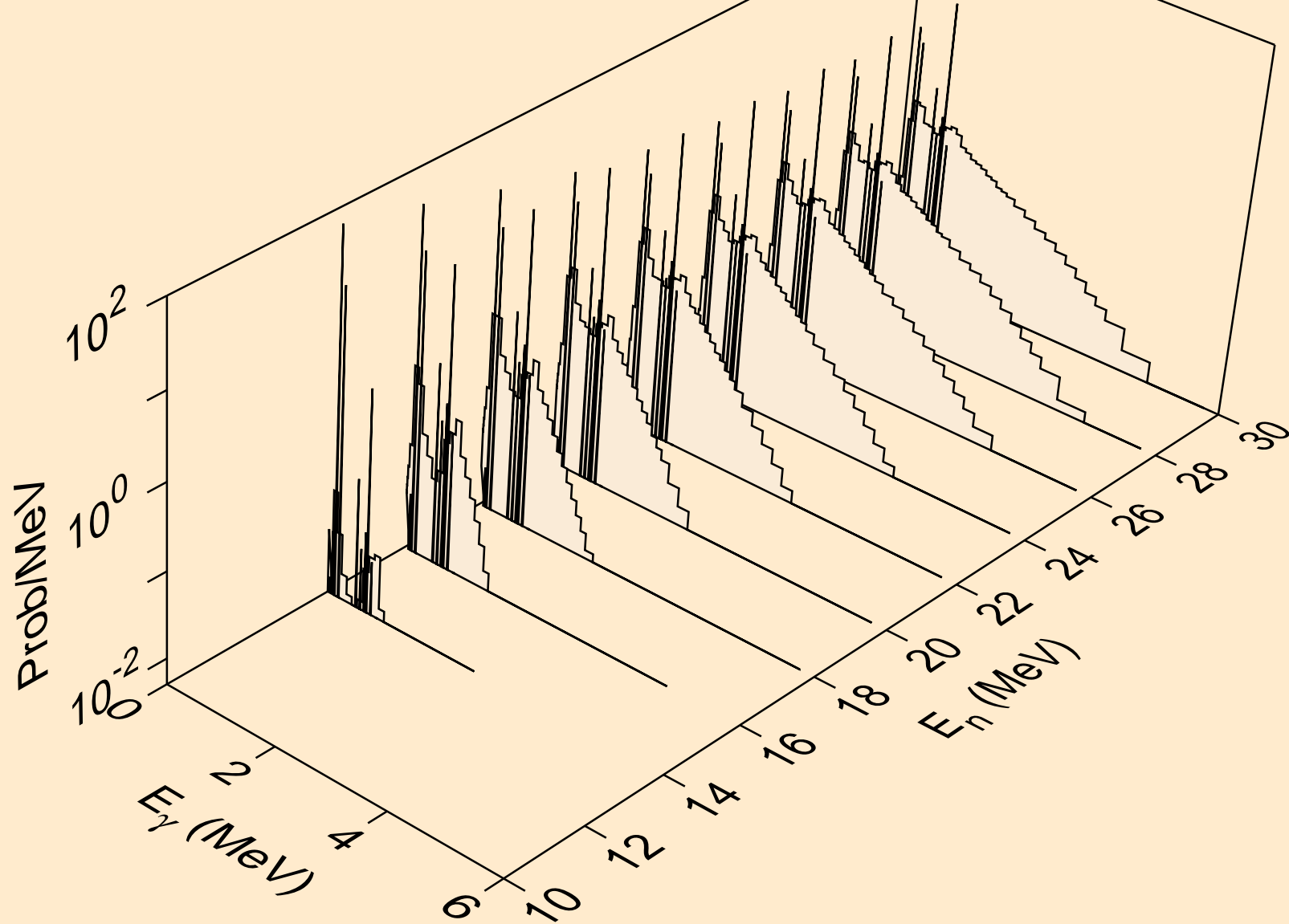
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Photon emission for (n,n\*)p



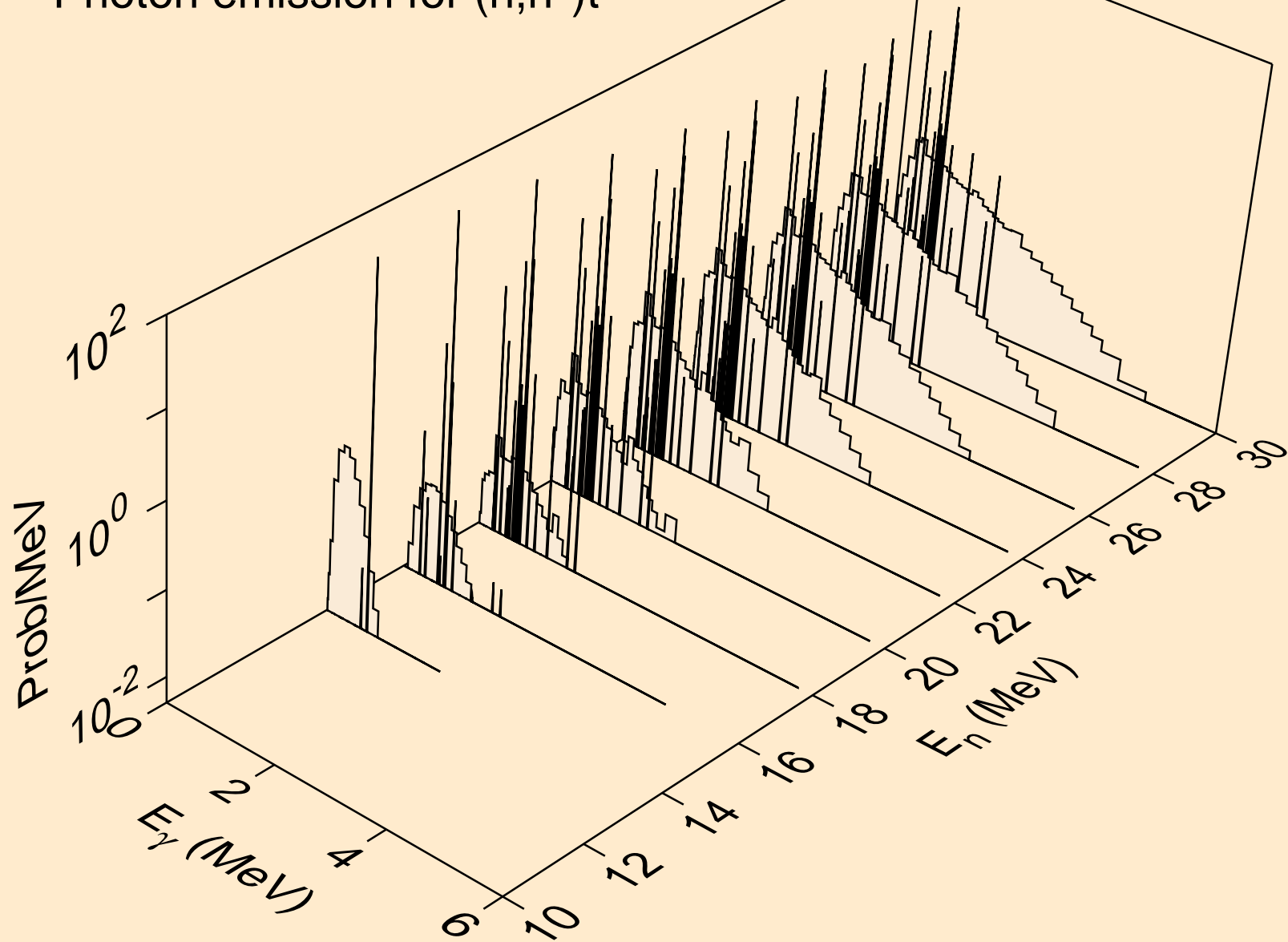
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Photon emission for (n,n\*)2a



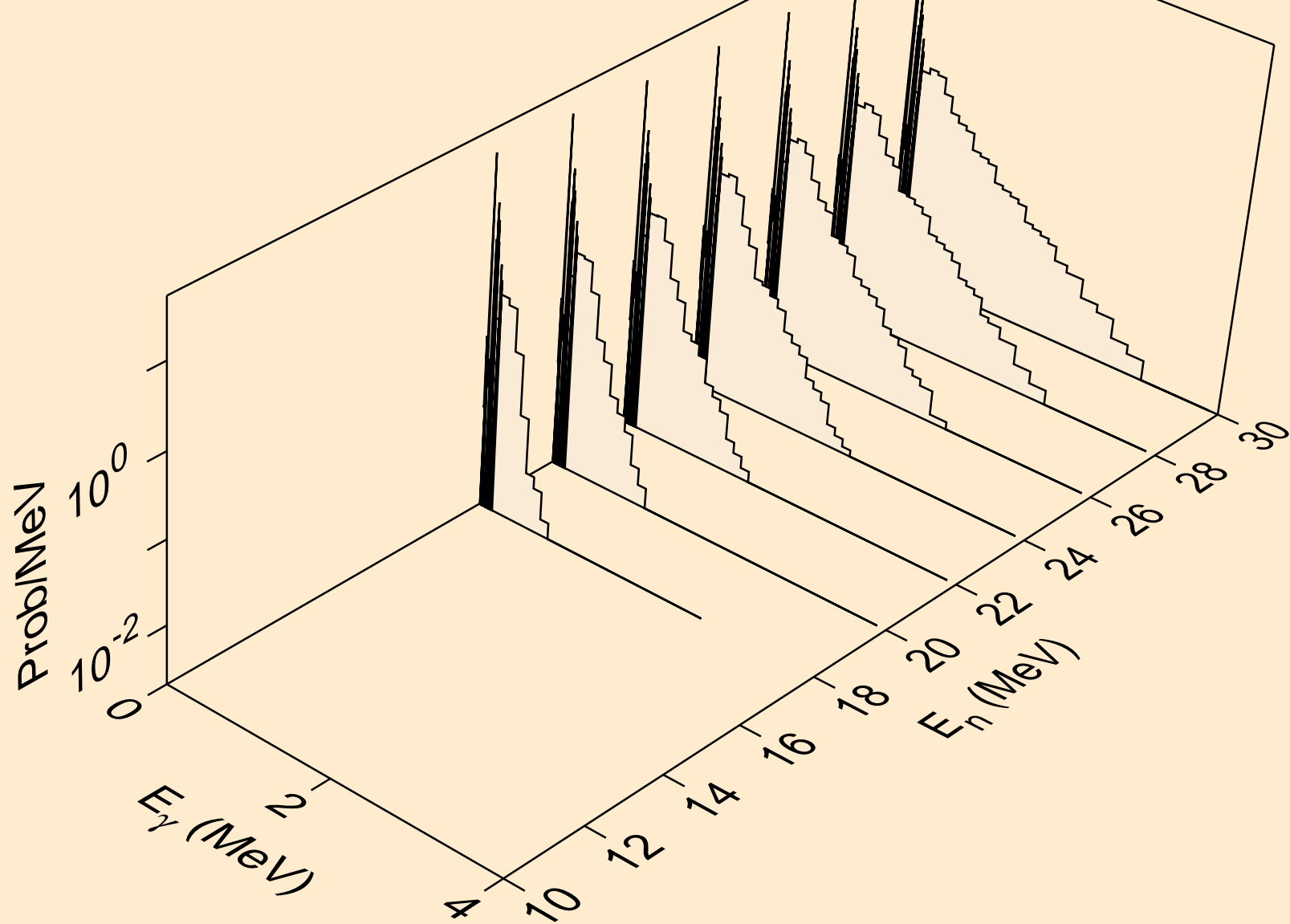
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

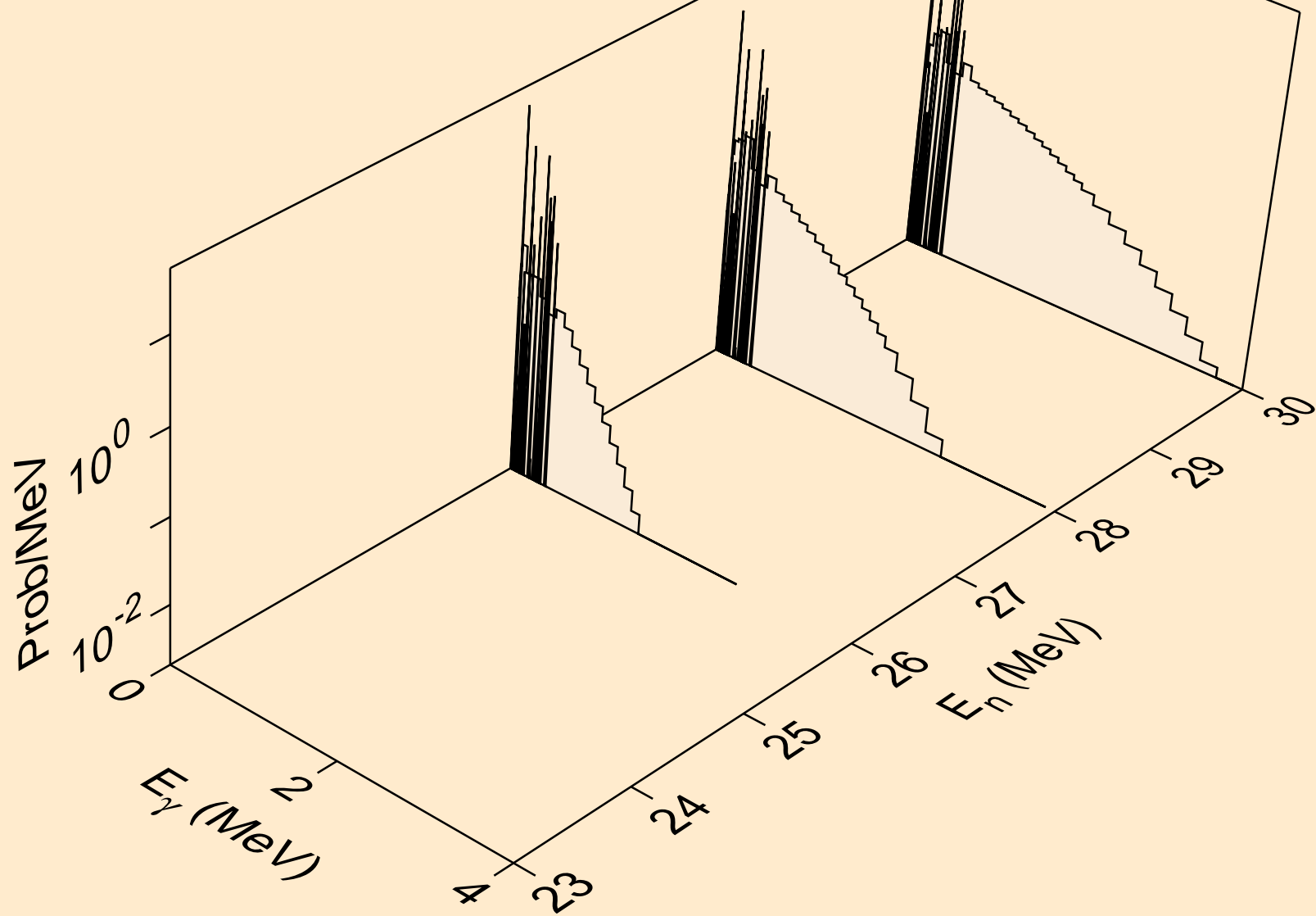


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

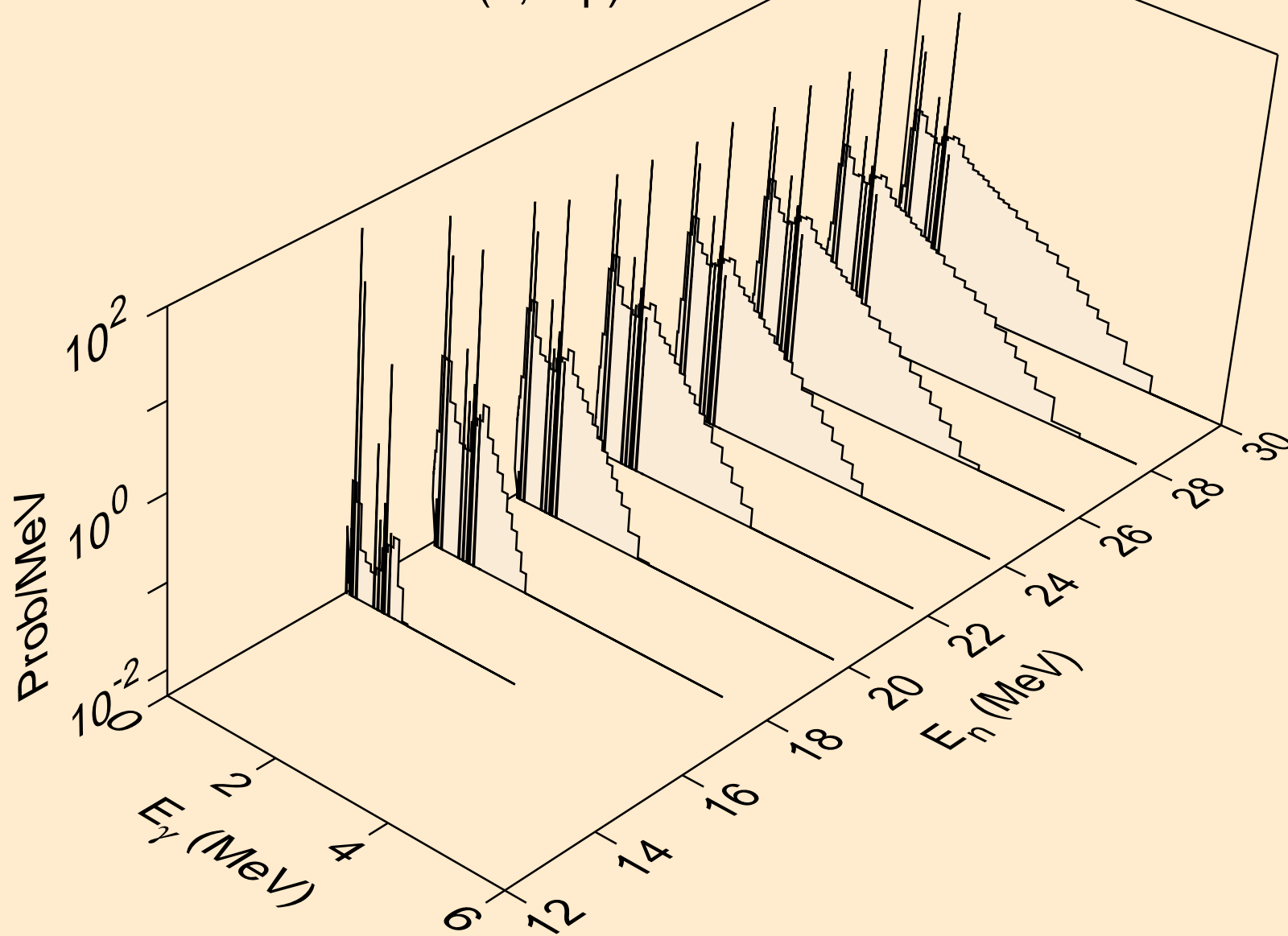




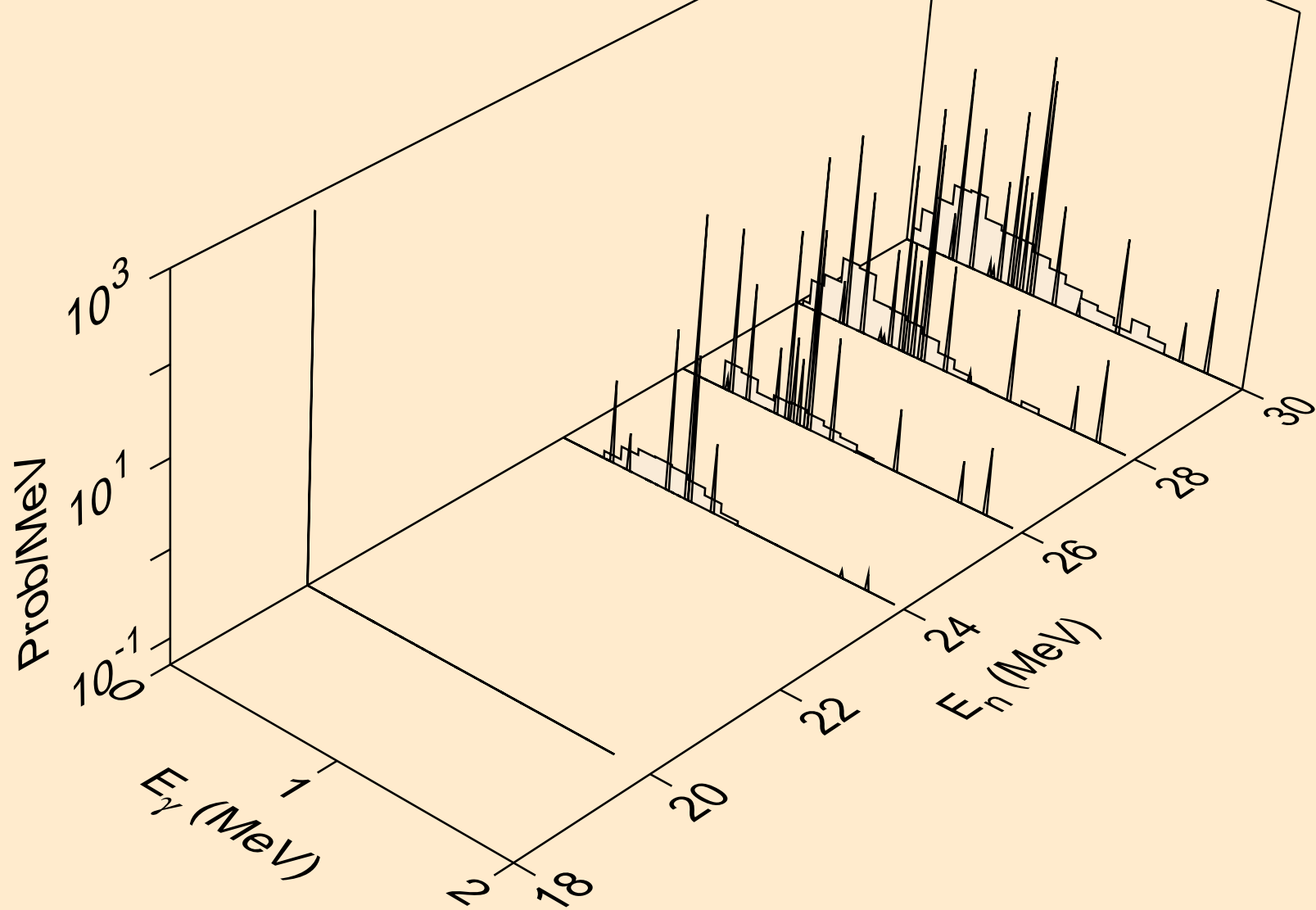
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



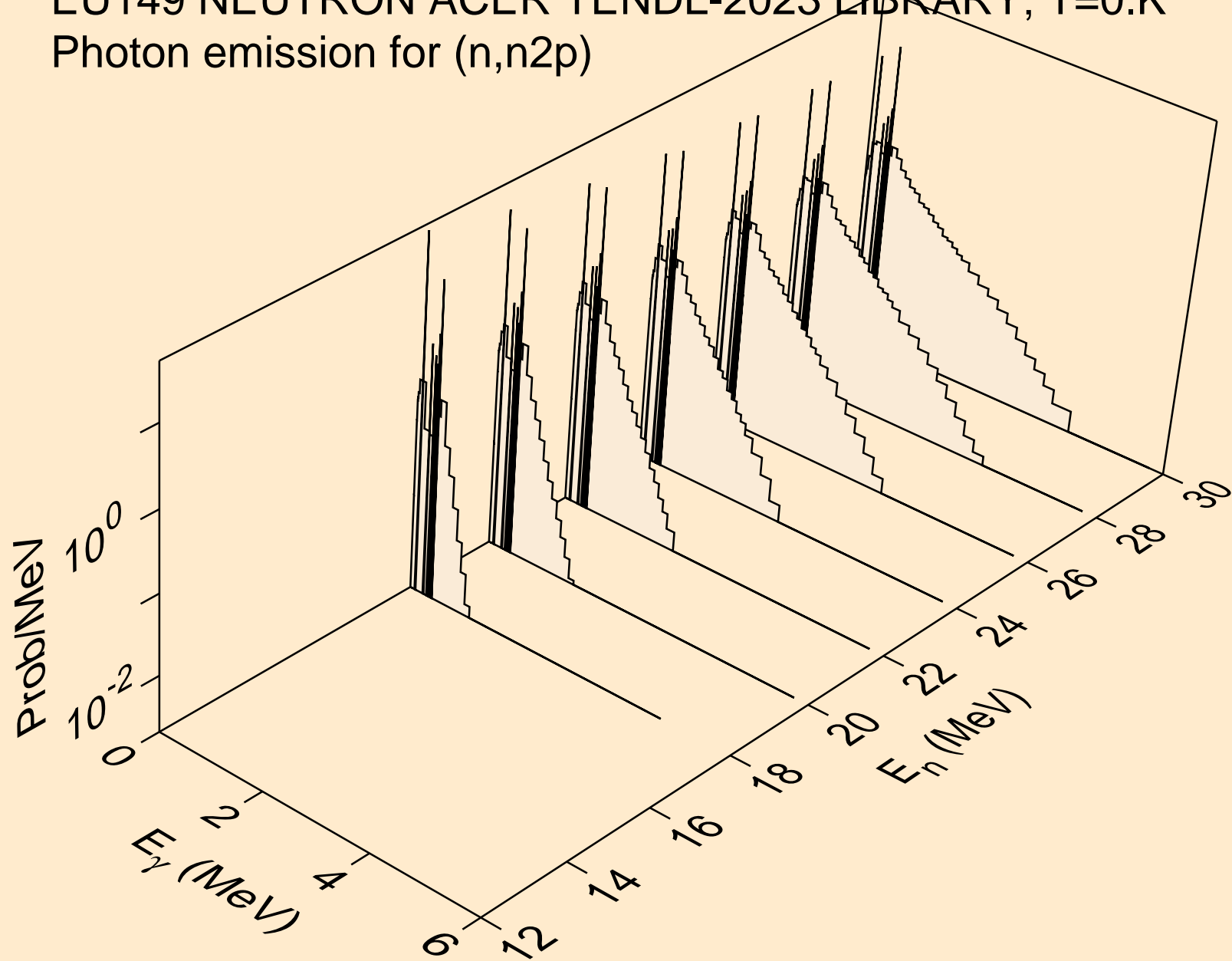
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



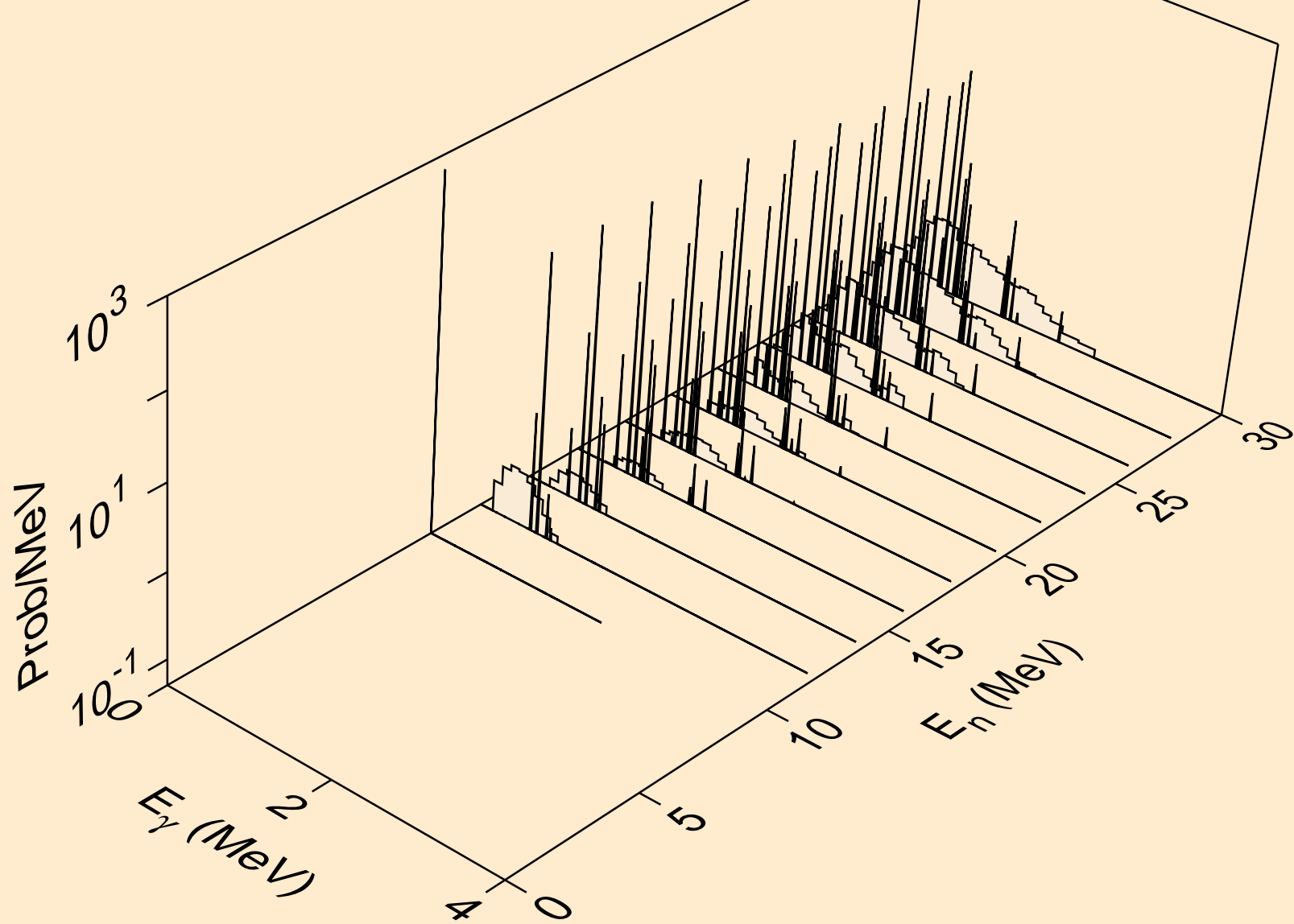
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Photon emission for (n,3np)



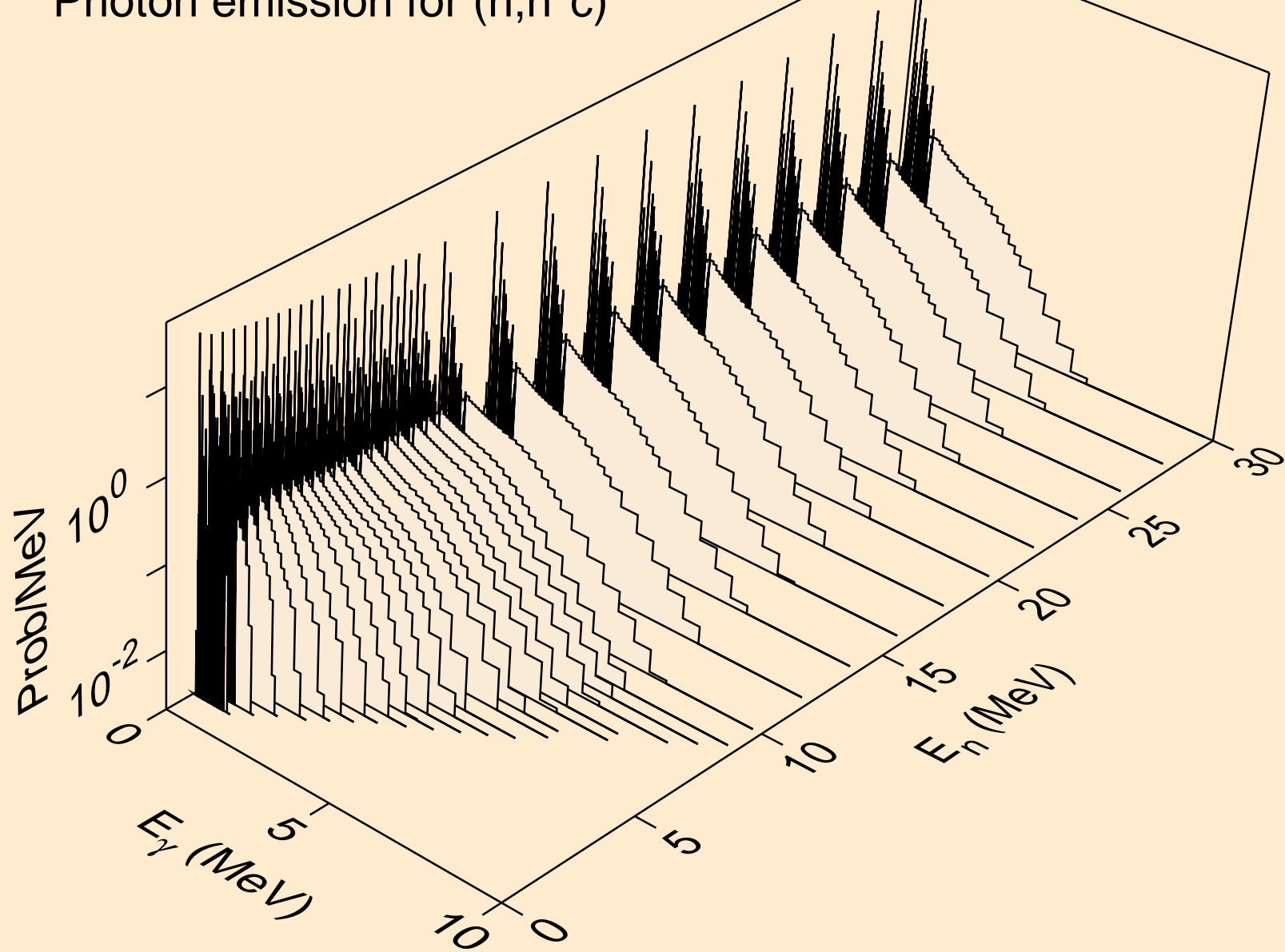
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Photon emission for (n,n2p)



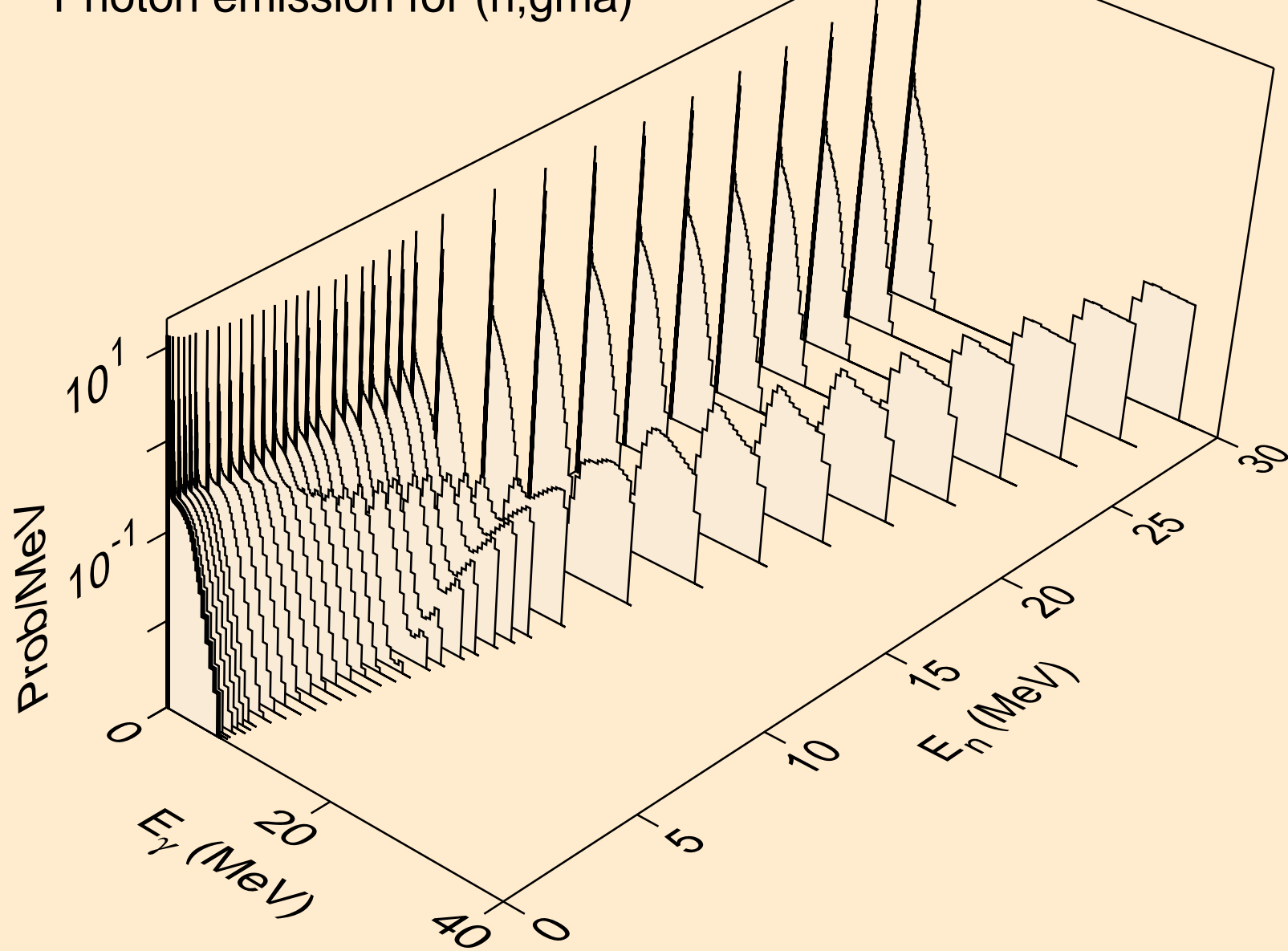
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Photon emission for (n,npa)



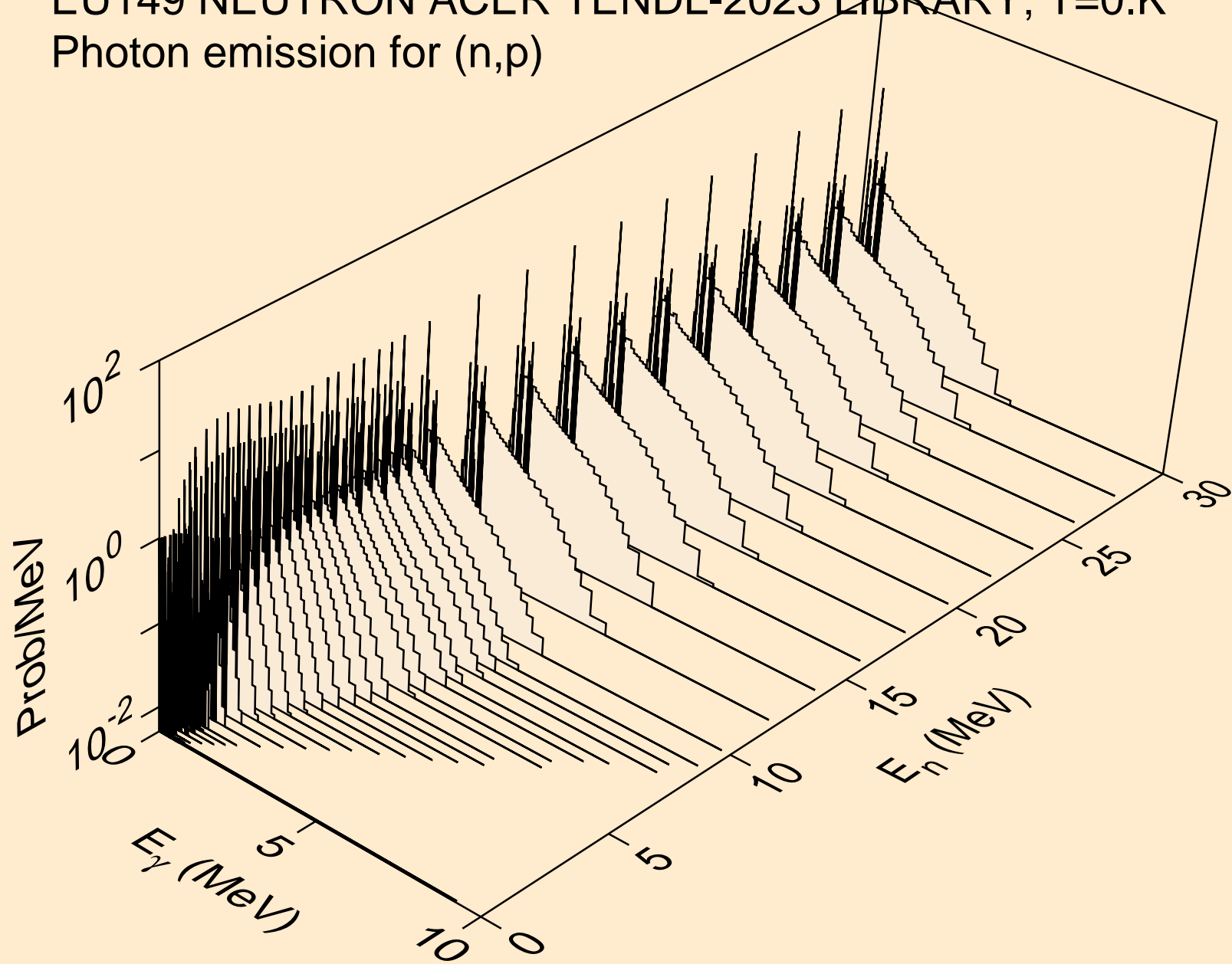
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

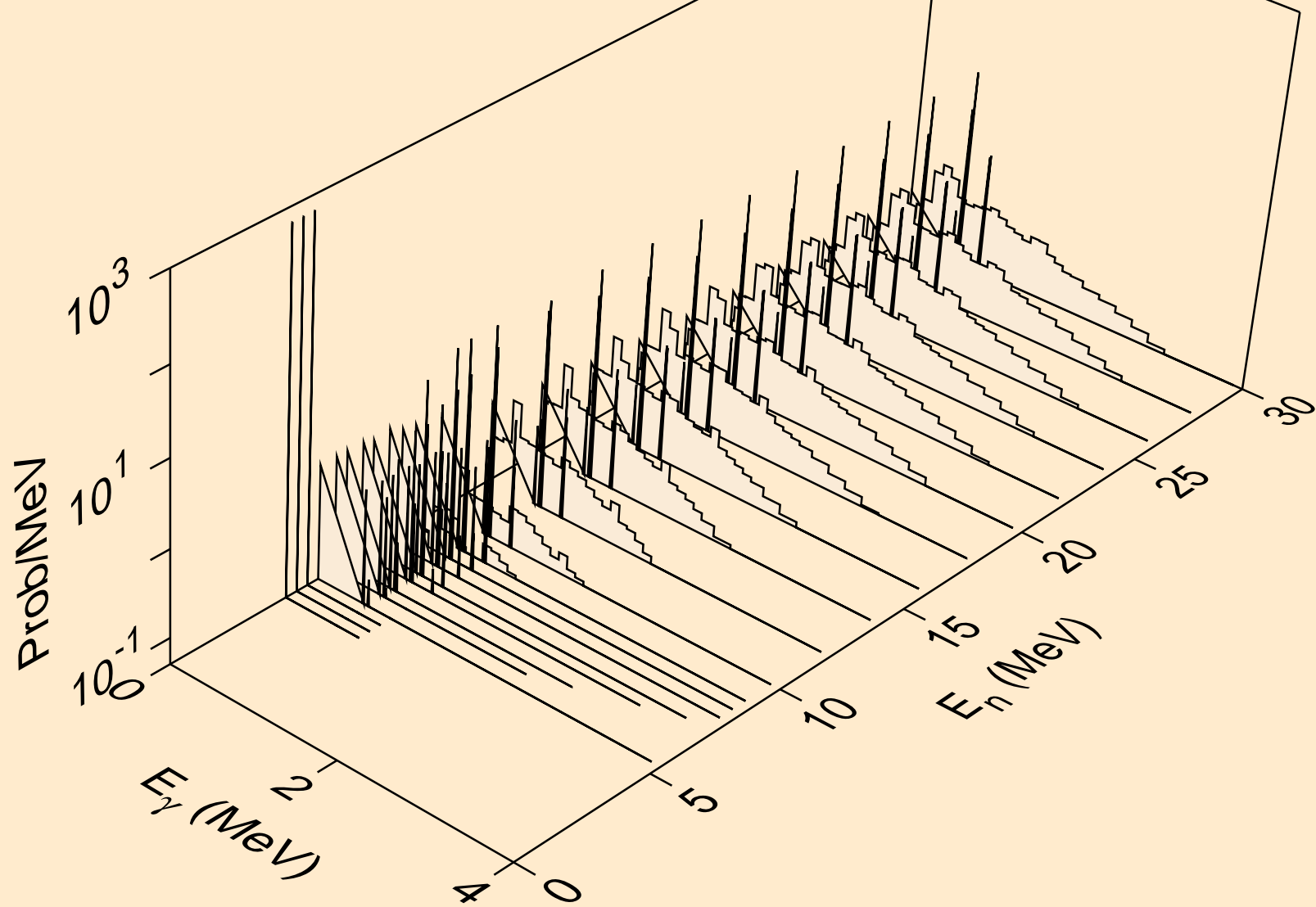


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Photon emission for (n,p)

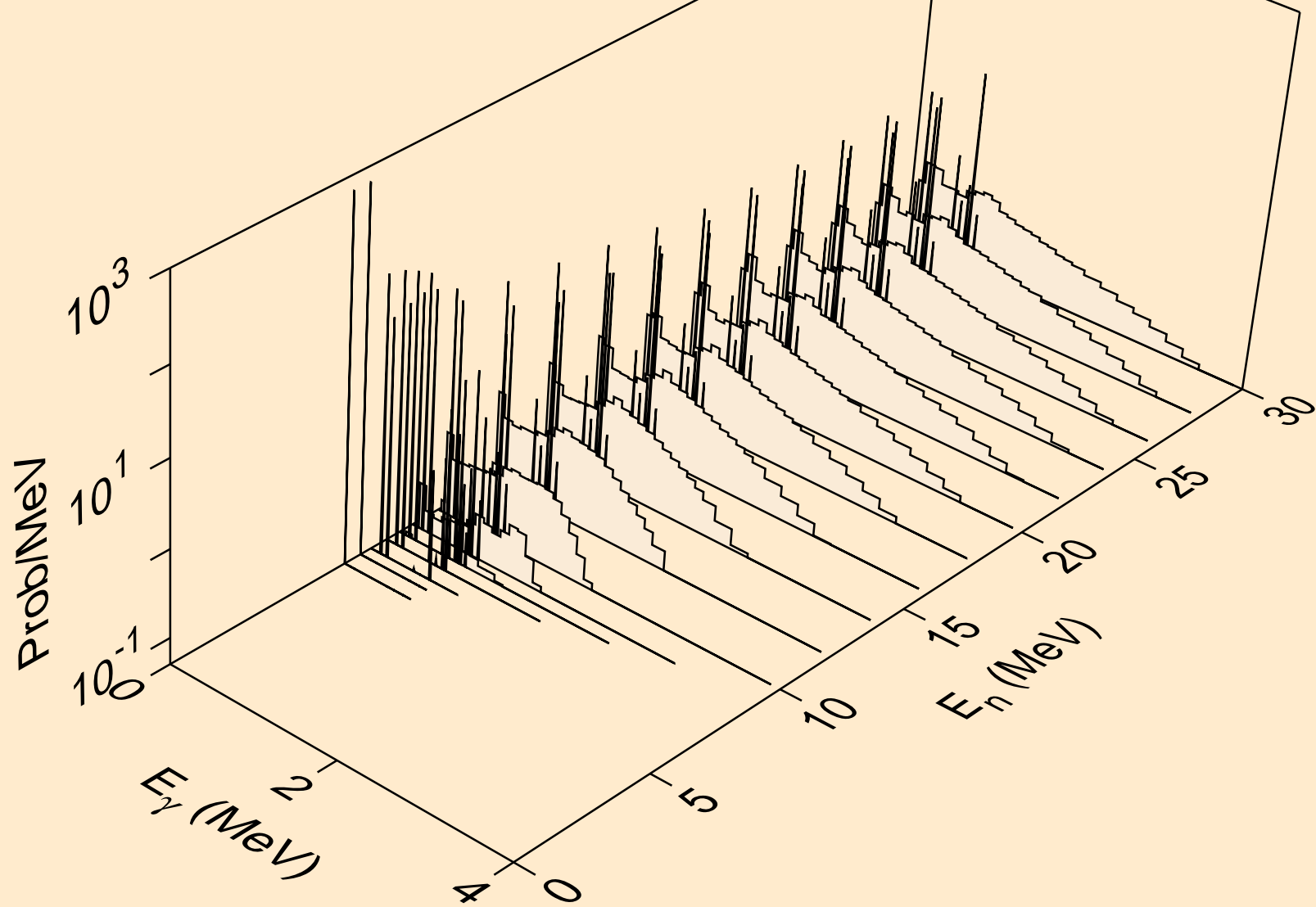




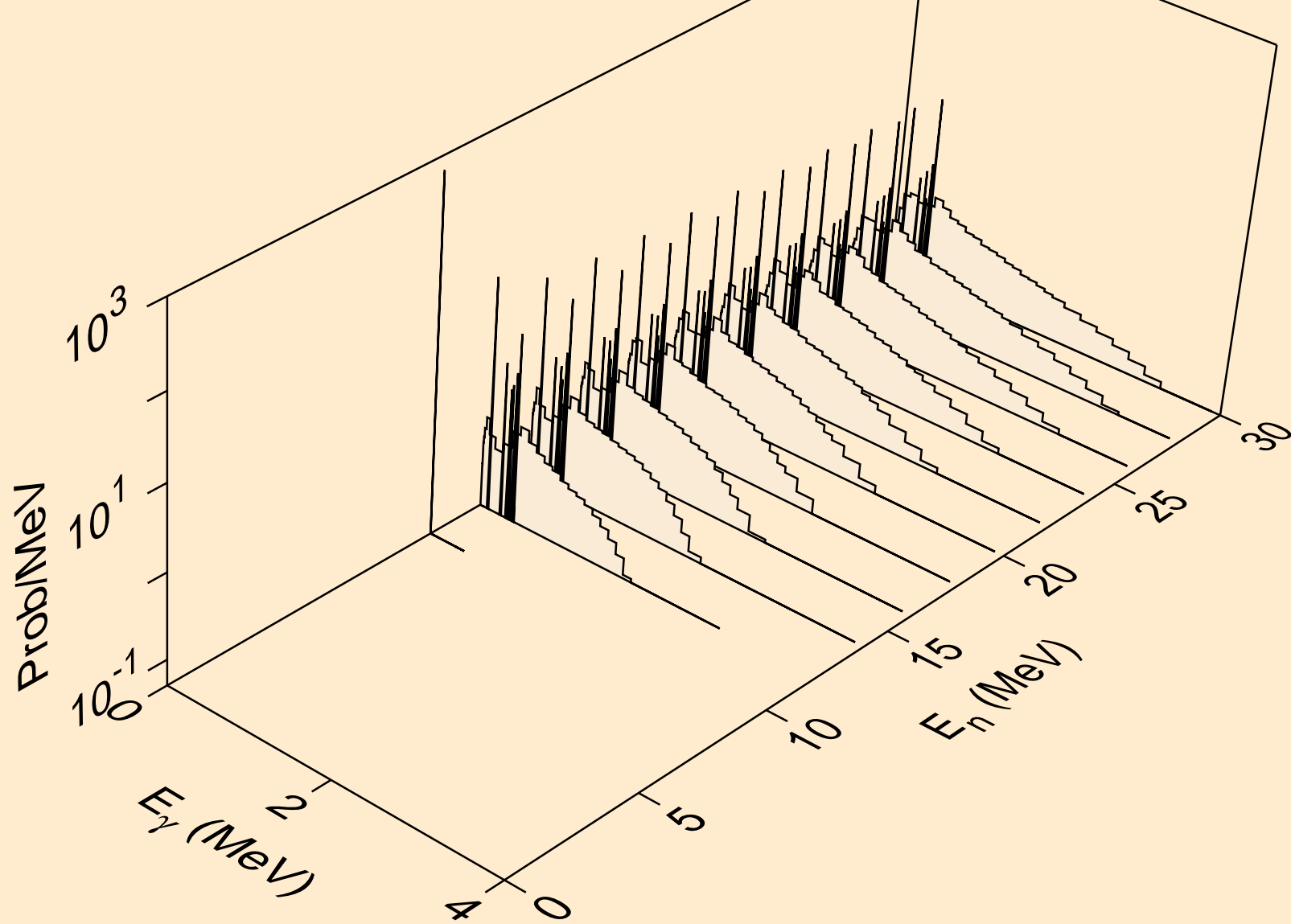
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Photon emission for (n,d)



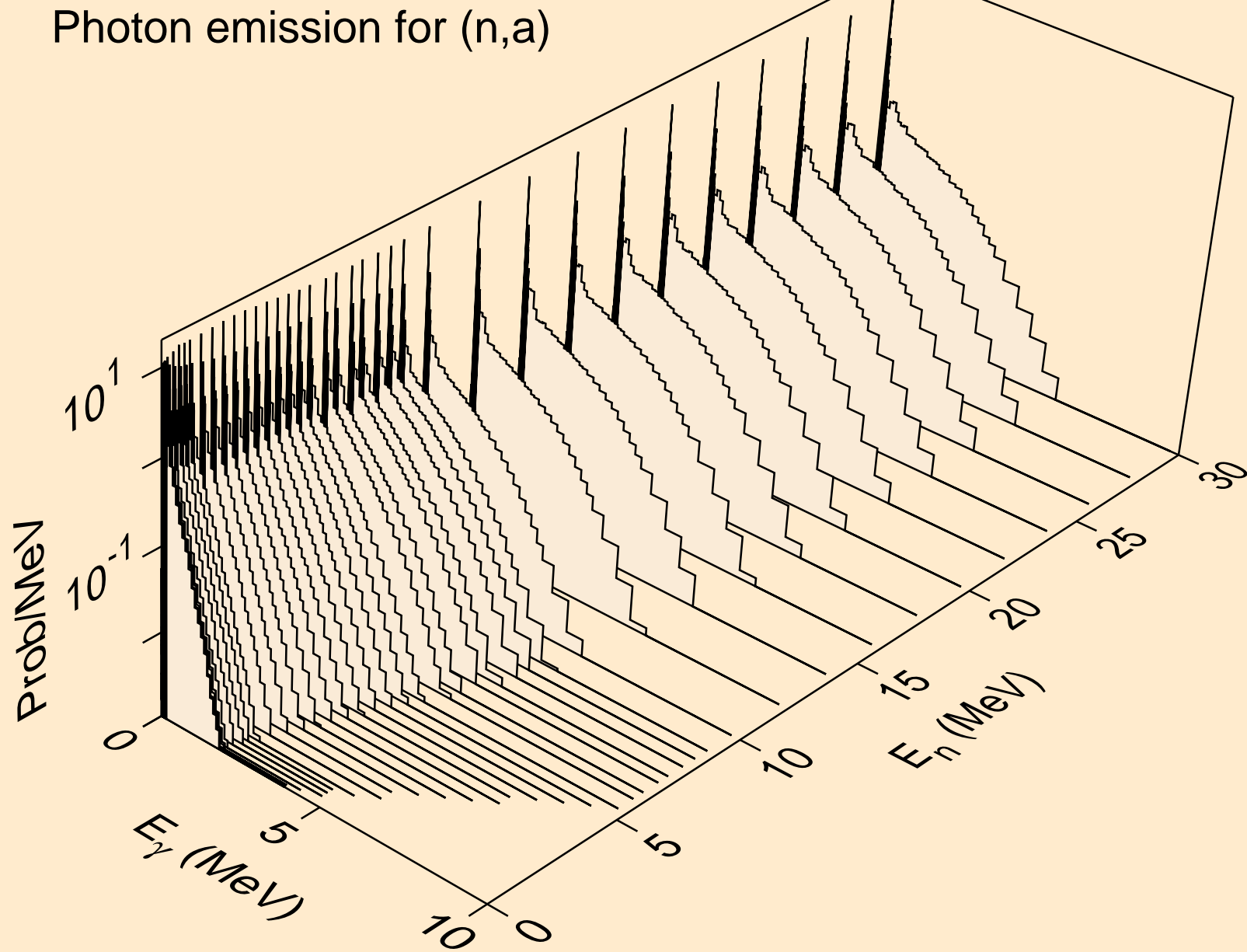
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Photon emission for (n,t)



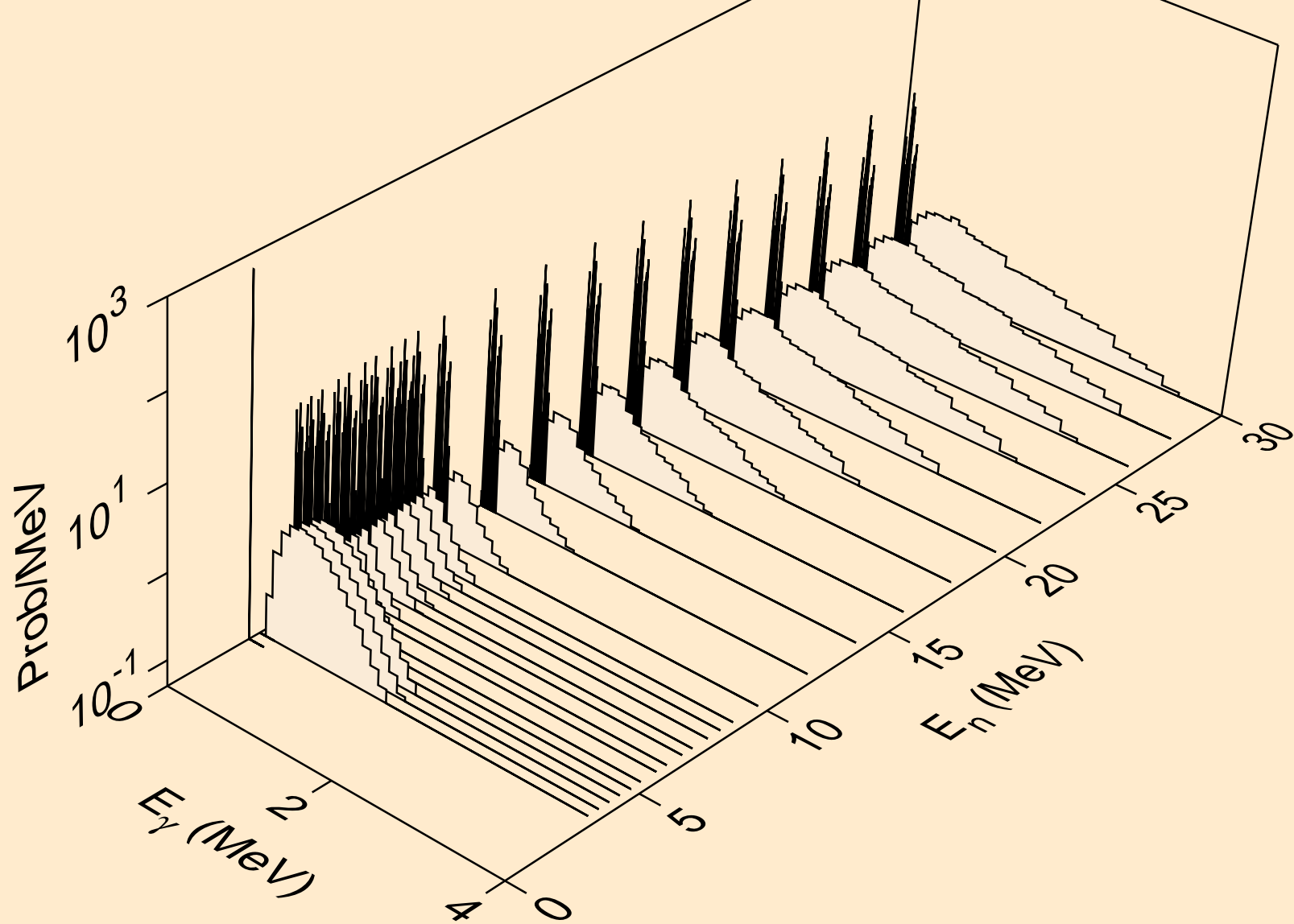
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Photon emission for (n,he3)



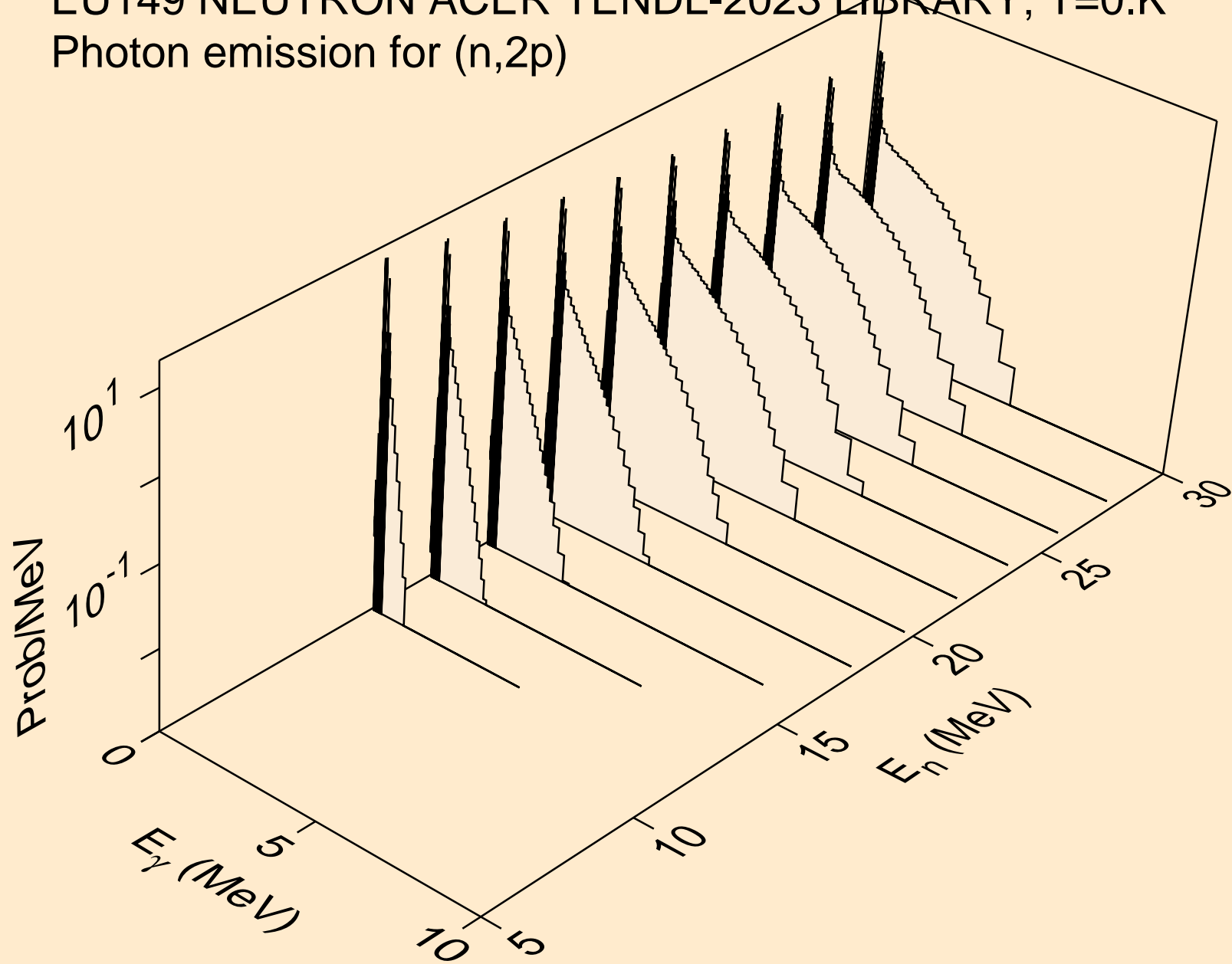
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Photon emission for (n,a)



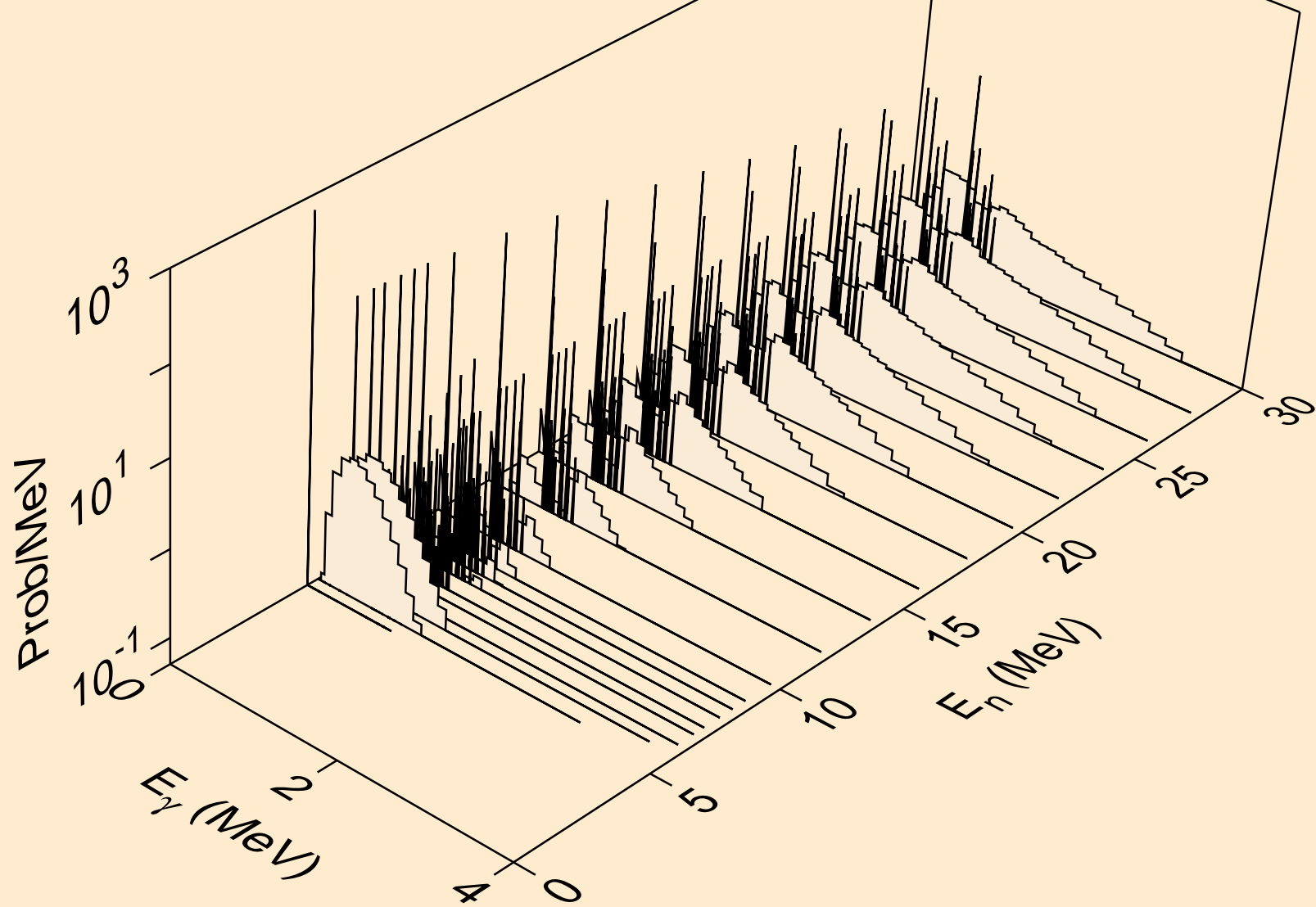
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Photon emission for (n,2a)



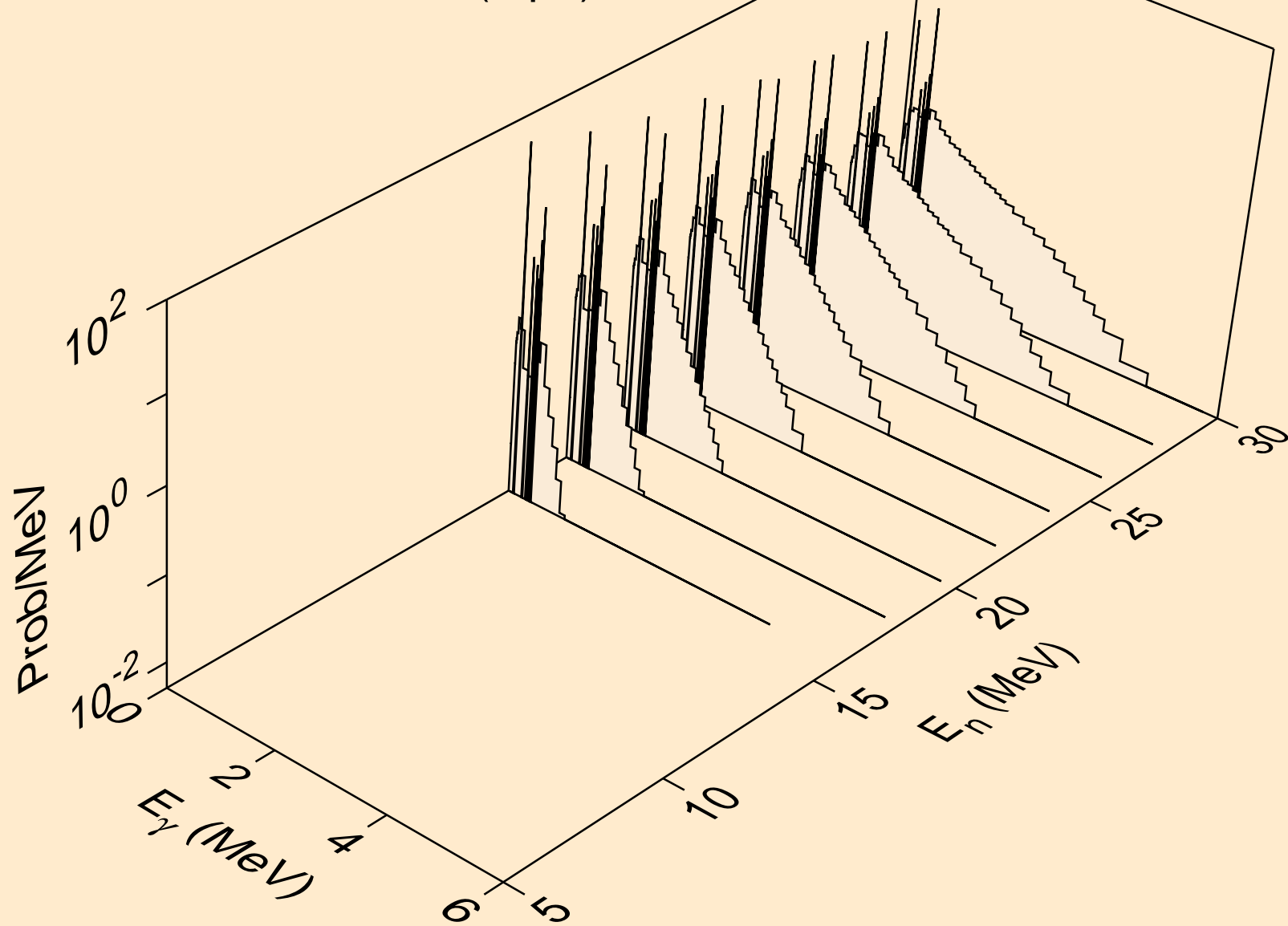
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Photon emission for (n,2p)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

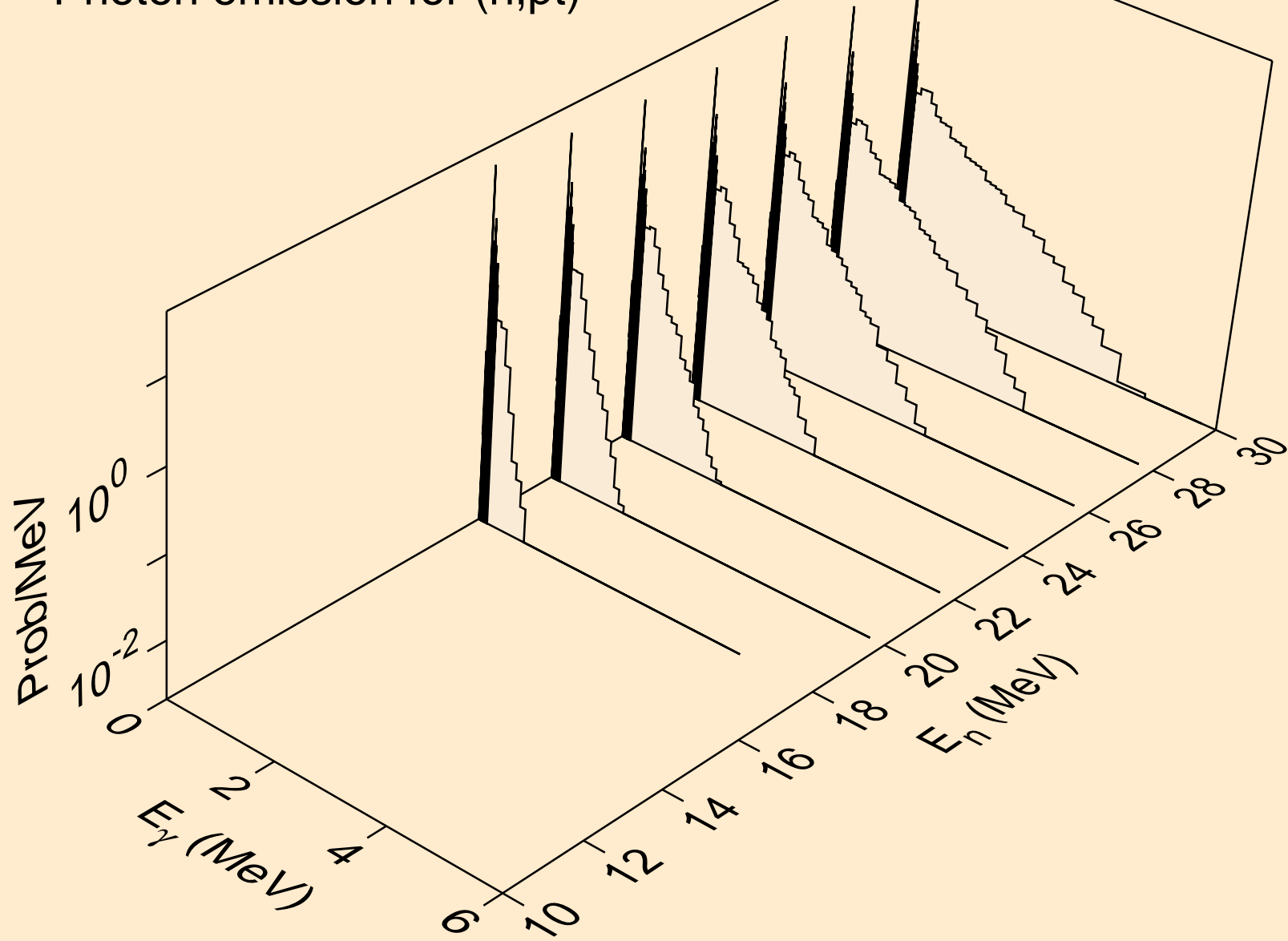


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

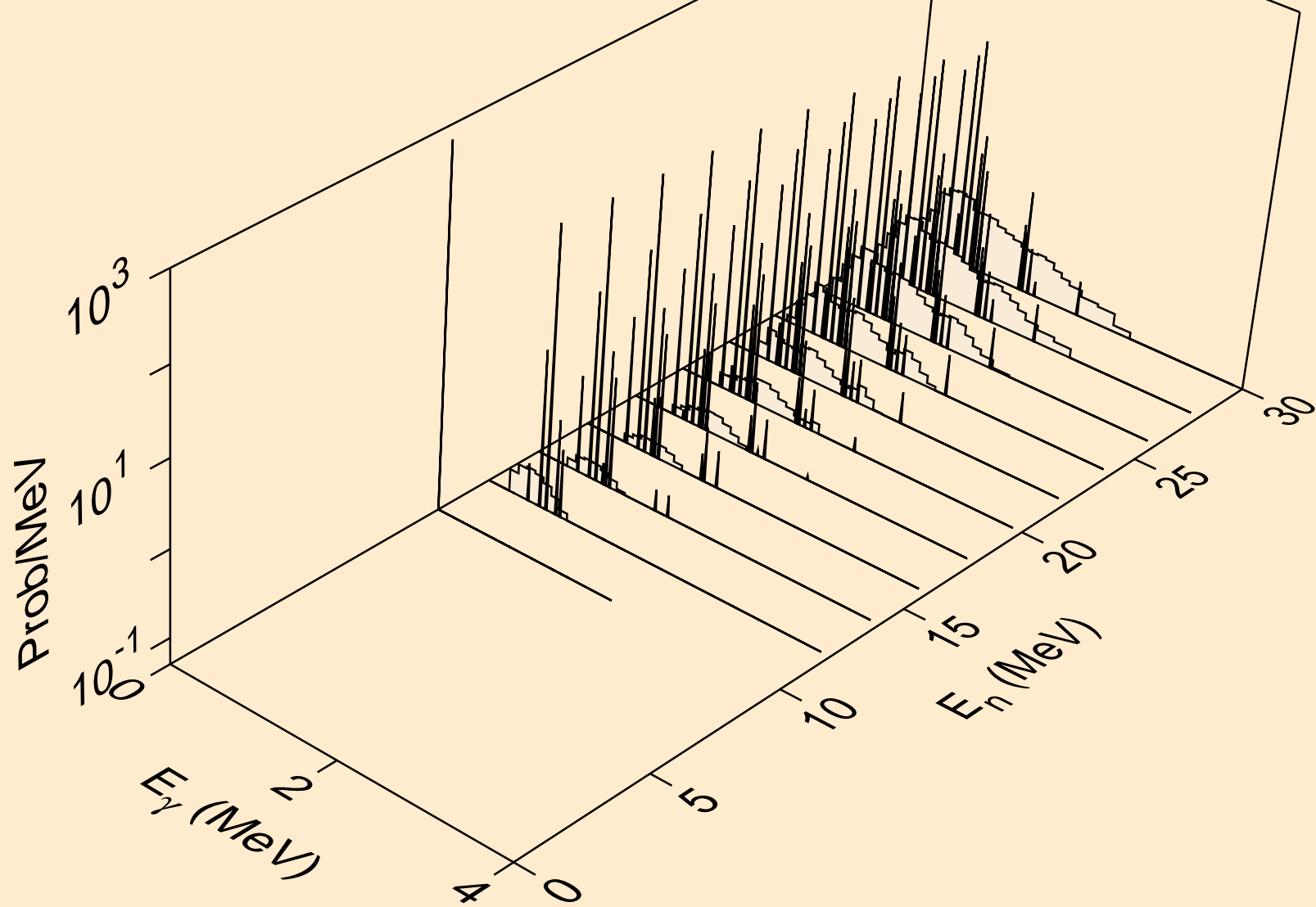




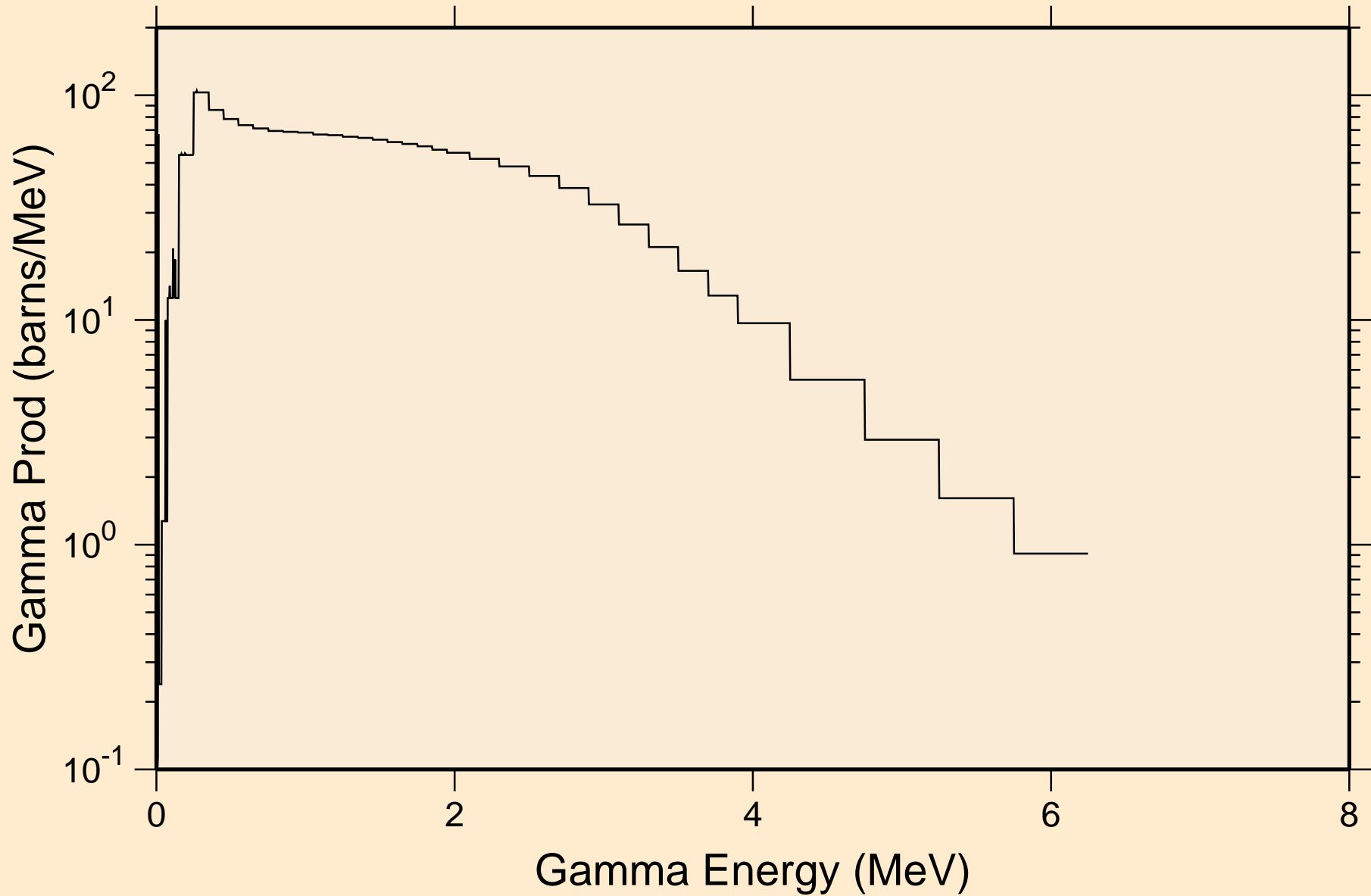
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Photon emission for (n,pt)



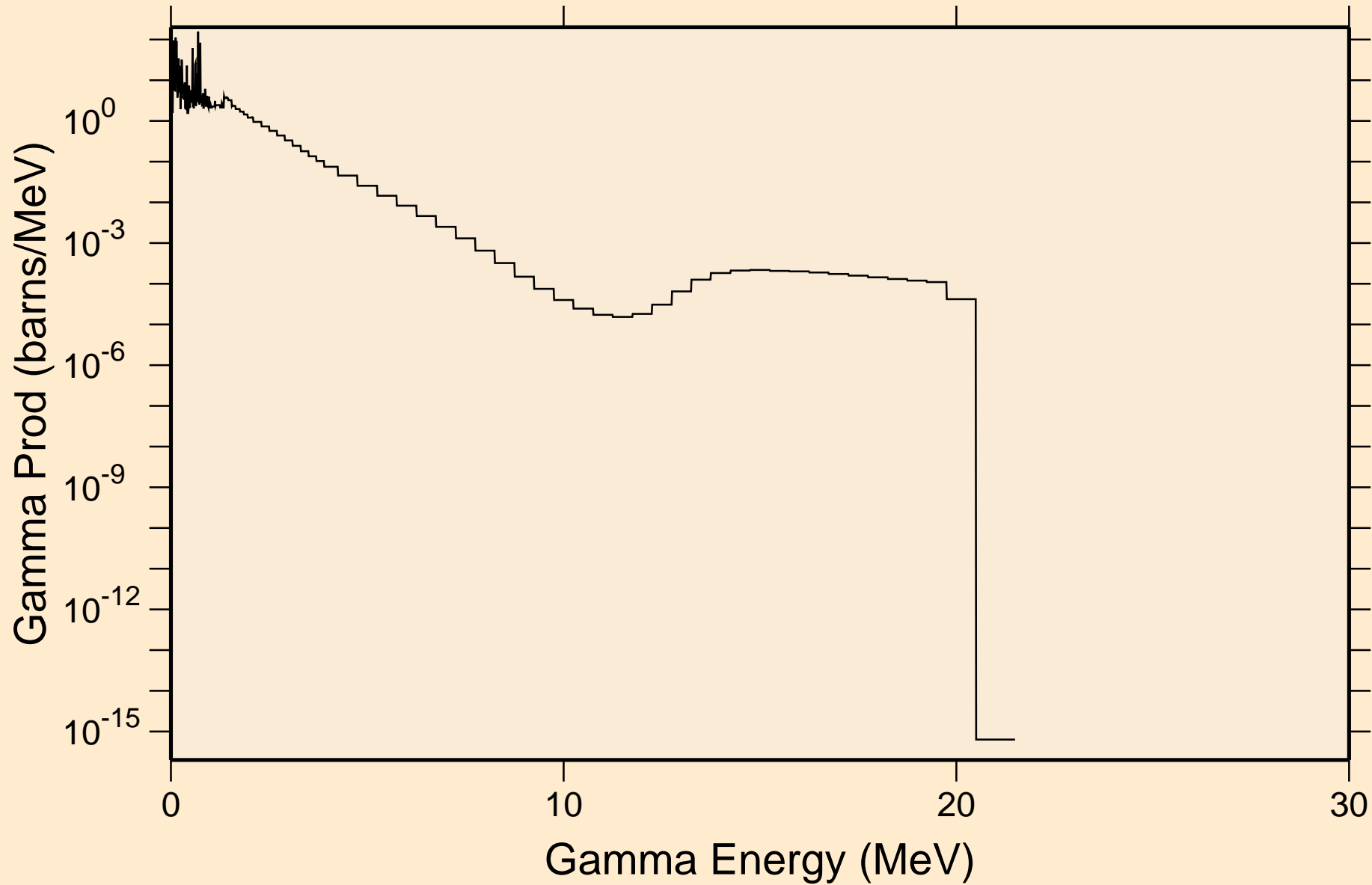
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Photon emission for (n,da)



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thermal capture photon spectrum

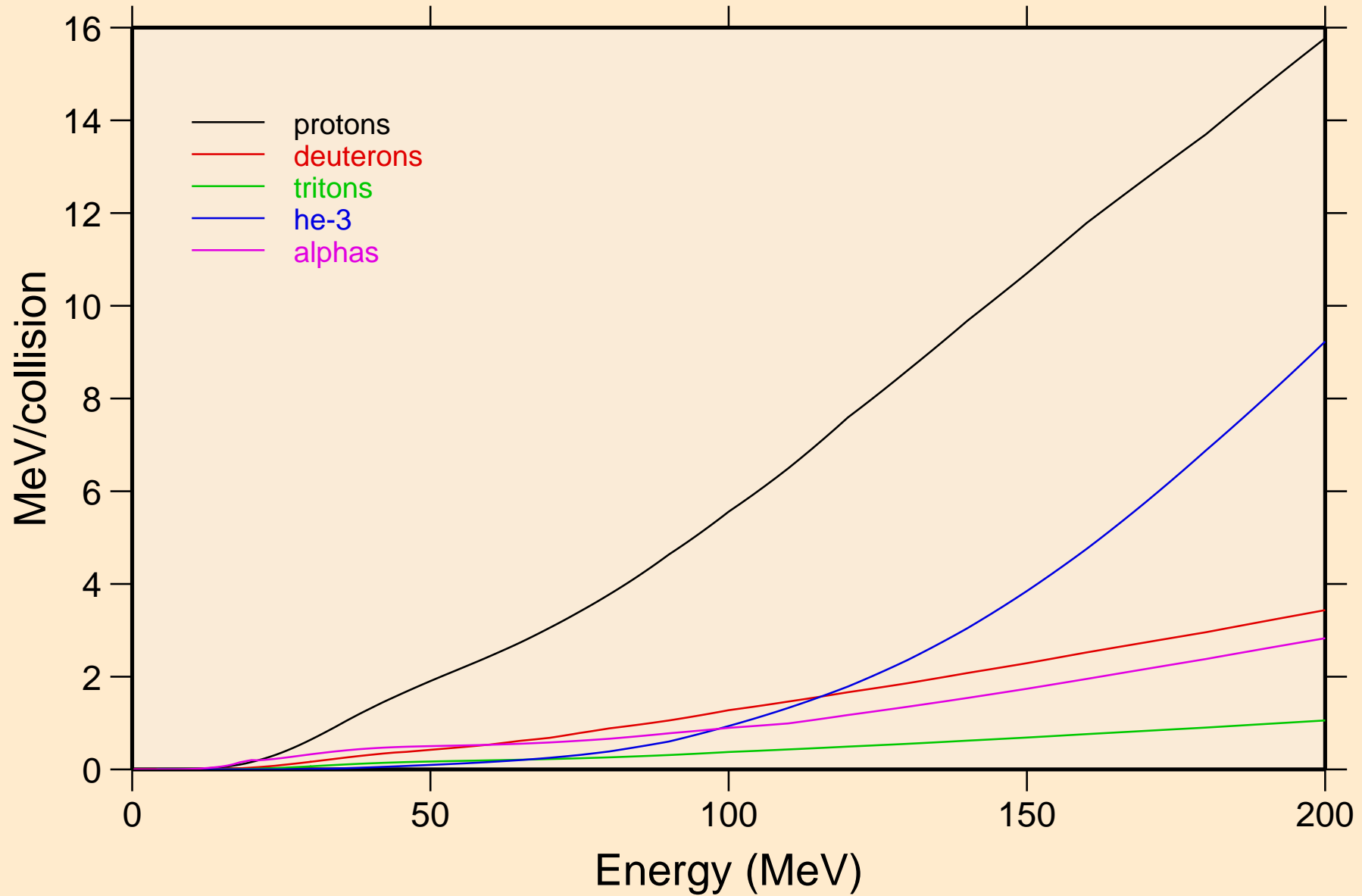


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



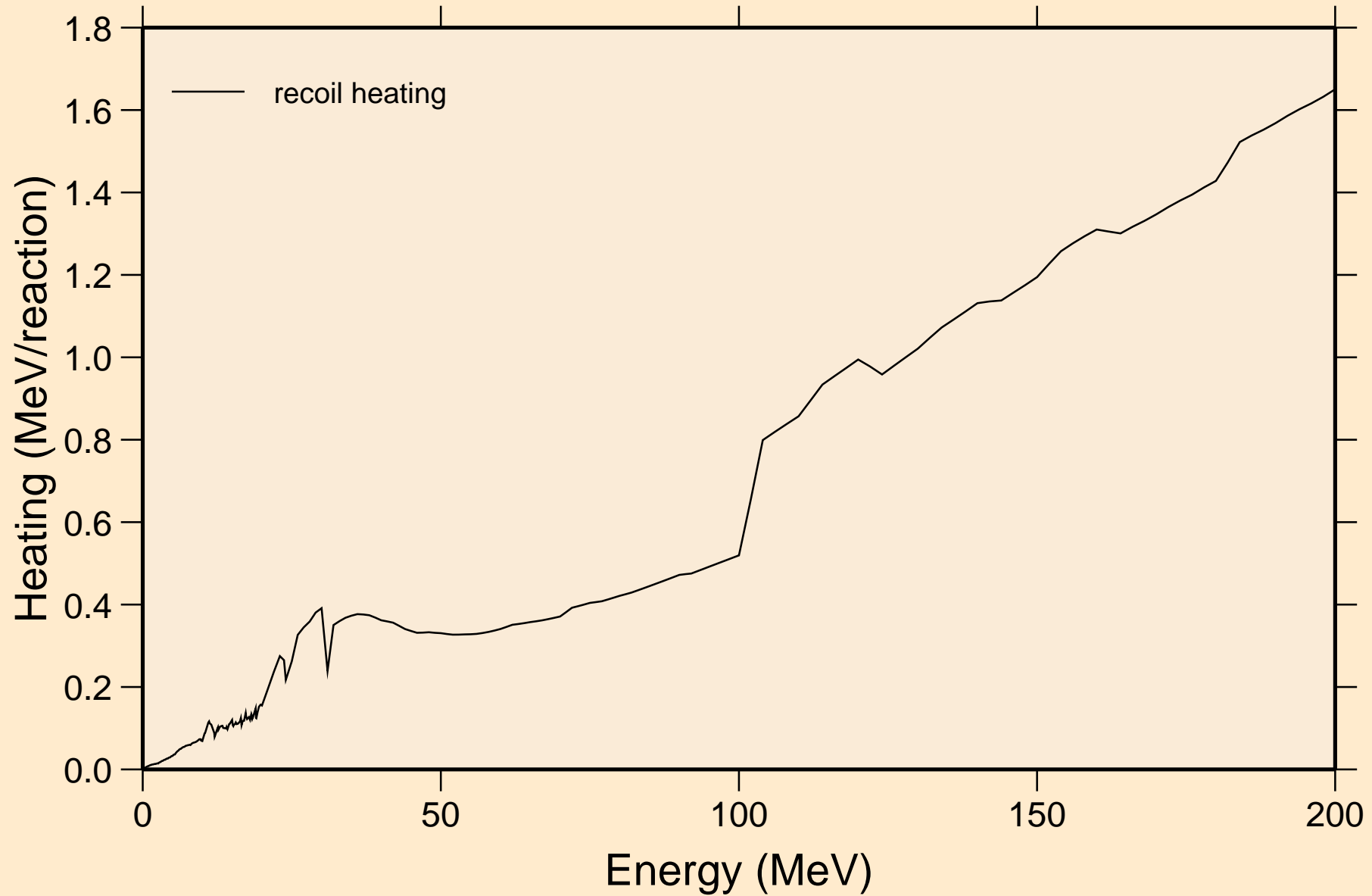
# EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

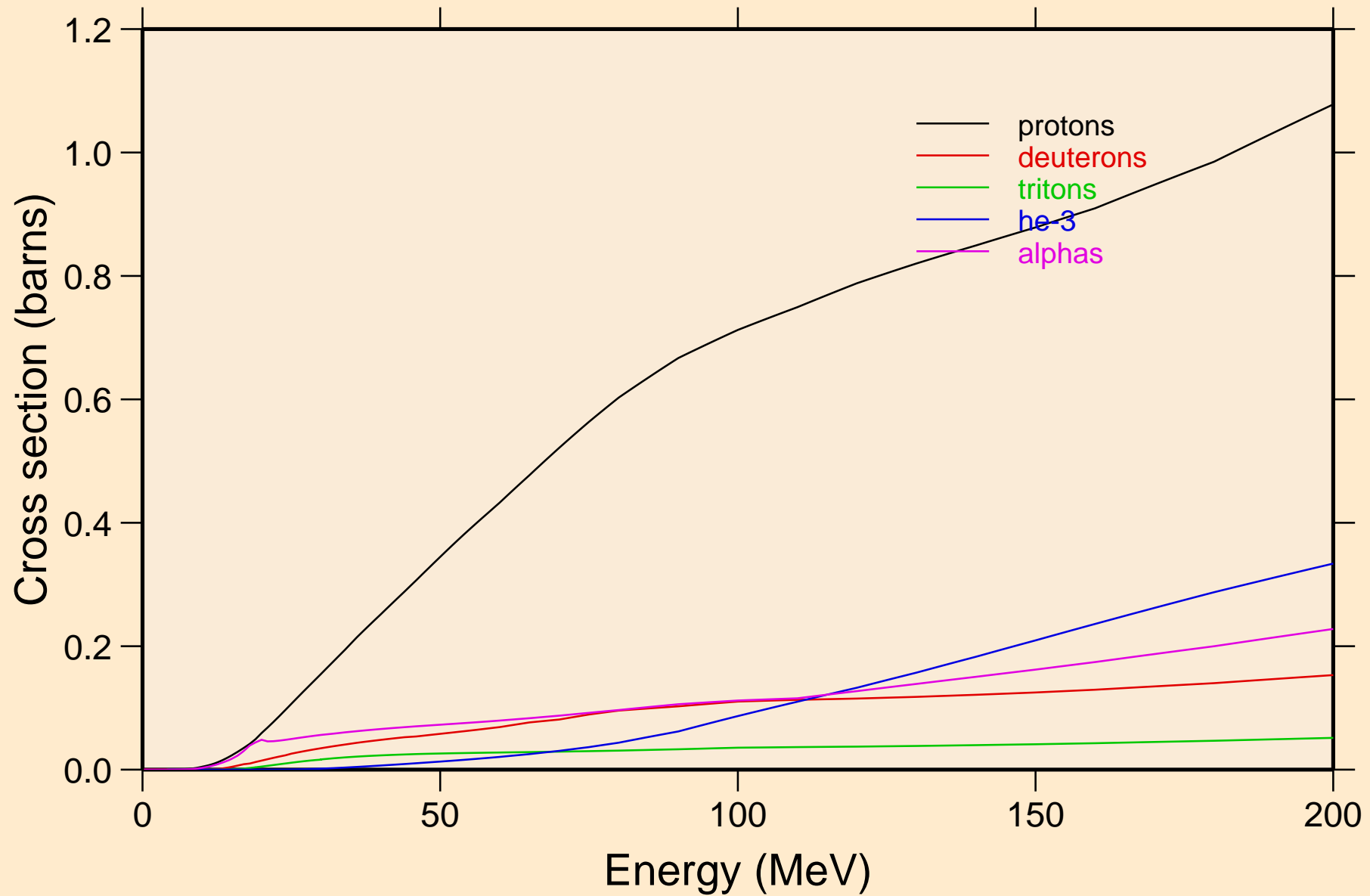


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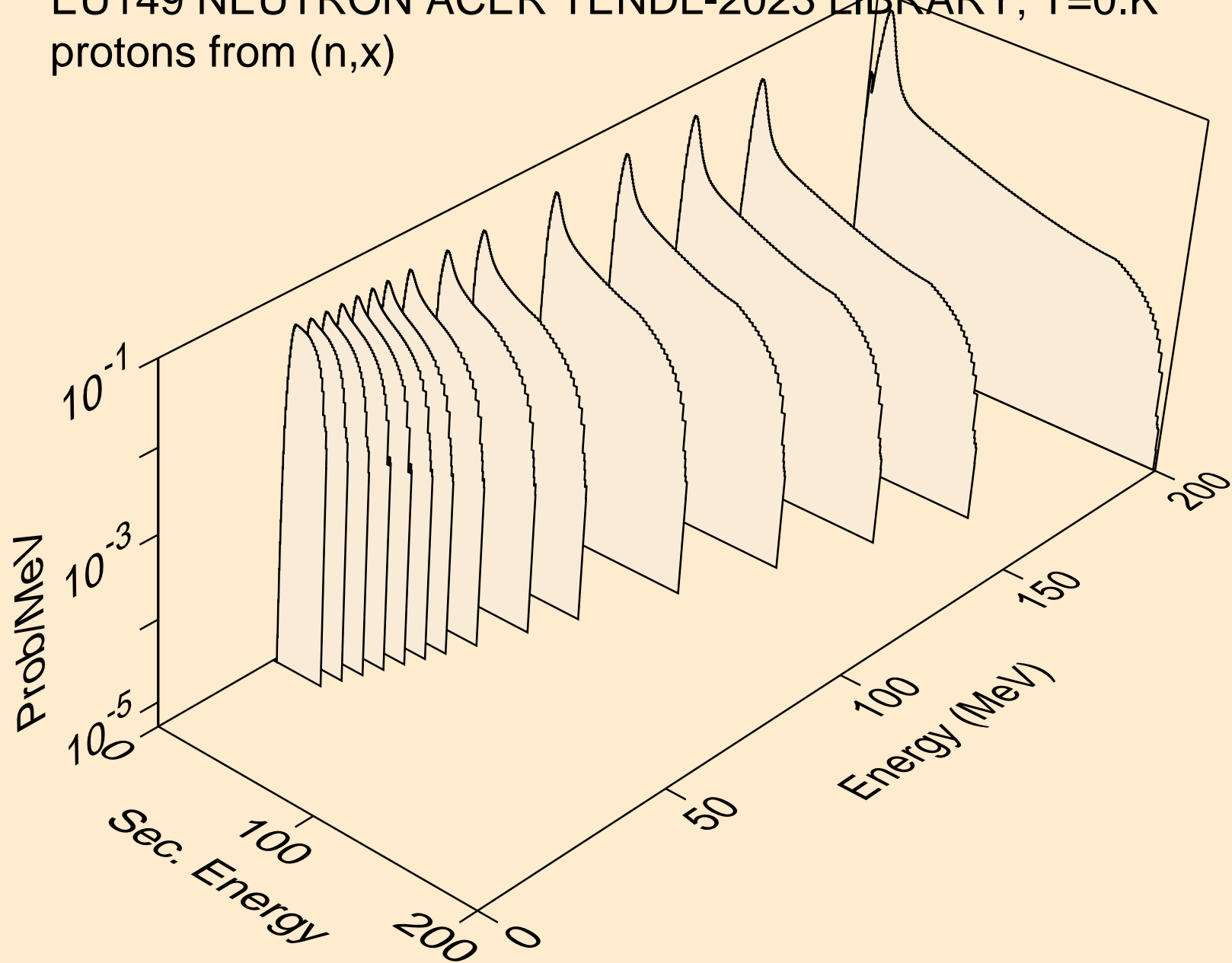
## Recoil Heating



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections

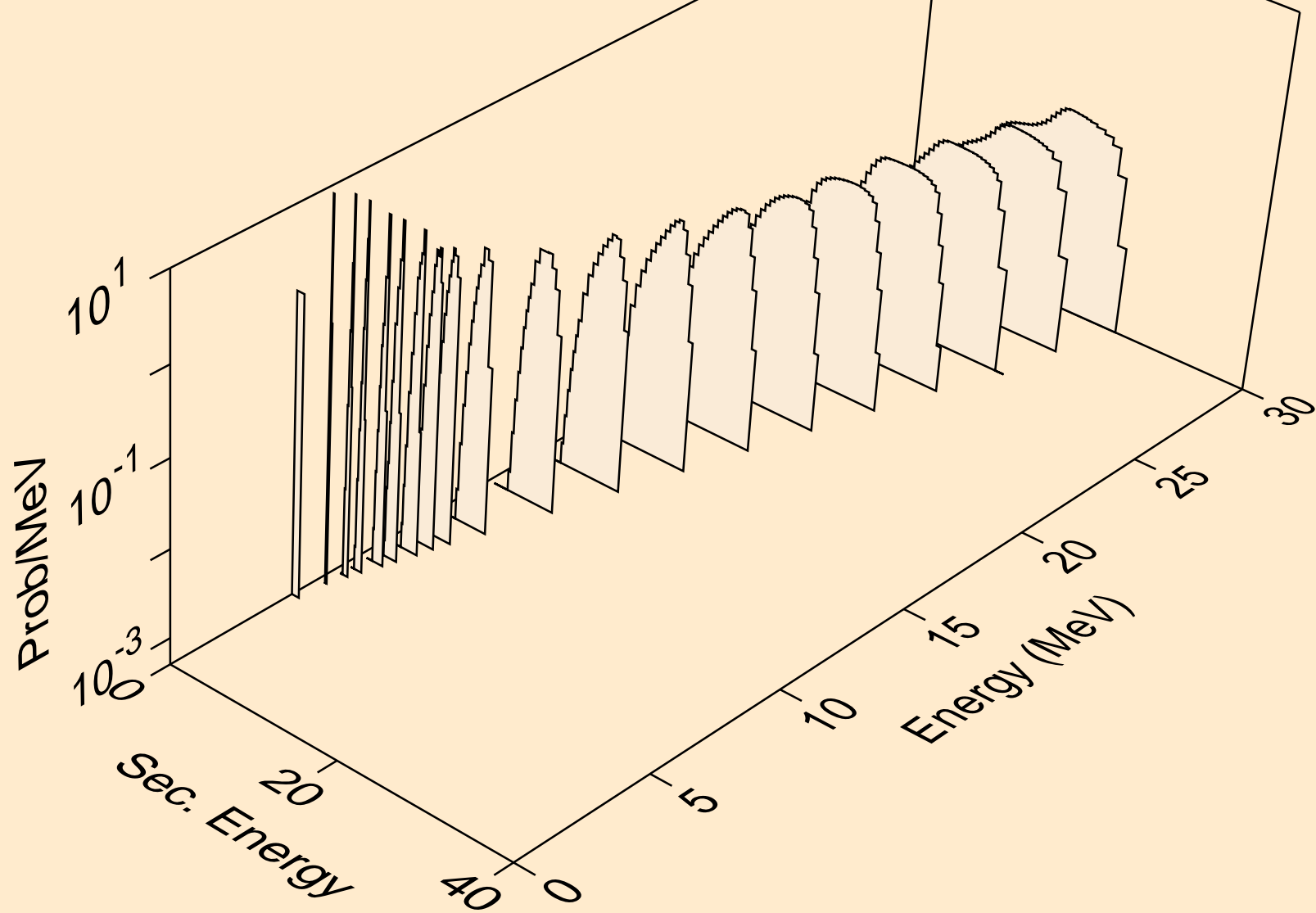


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)

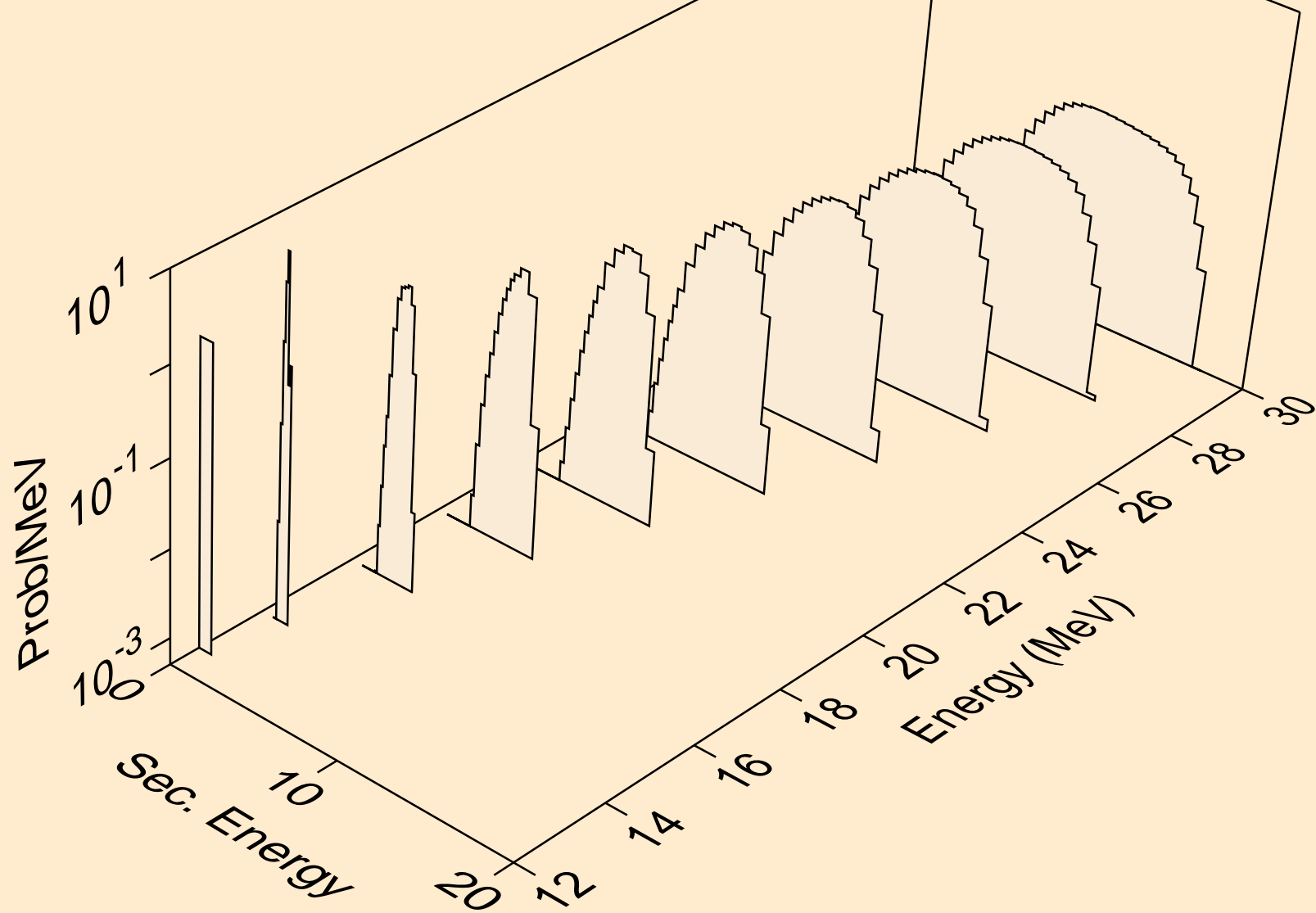




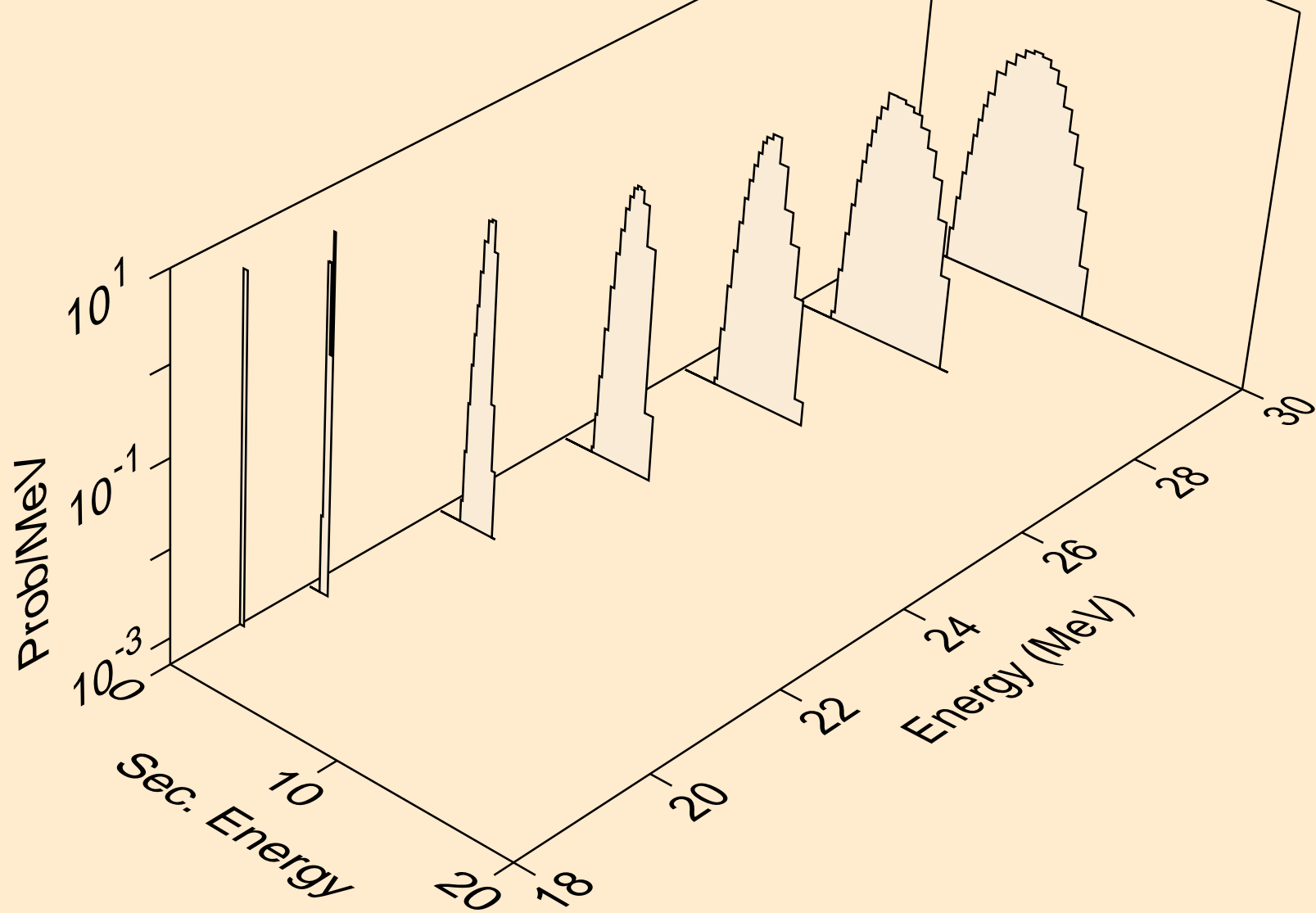
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



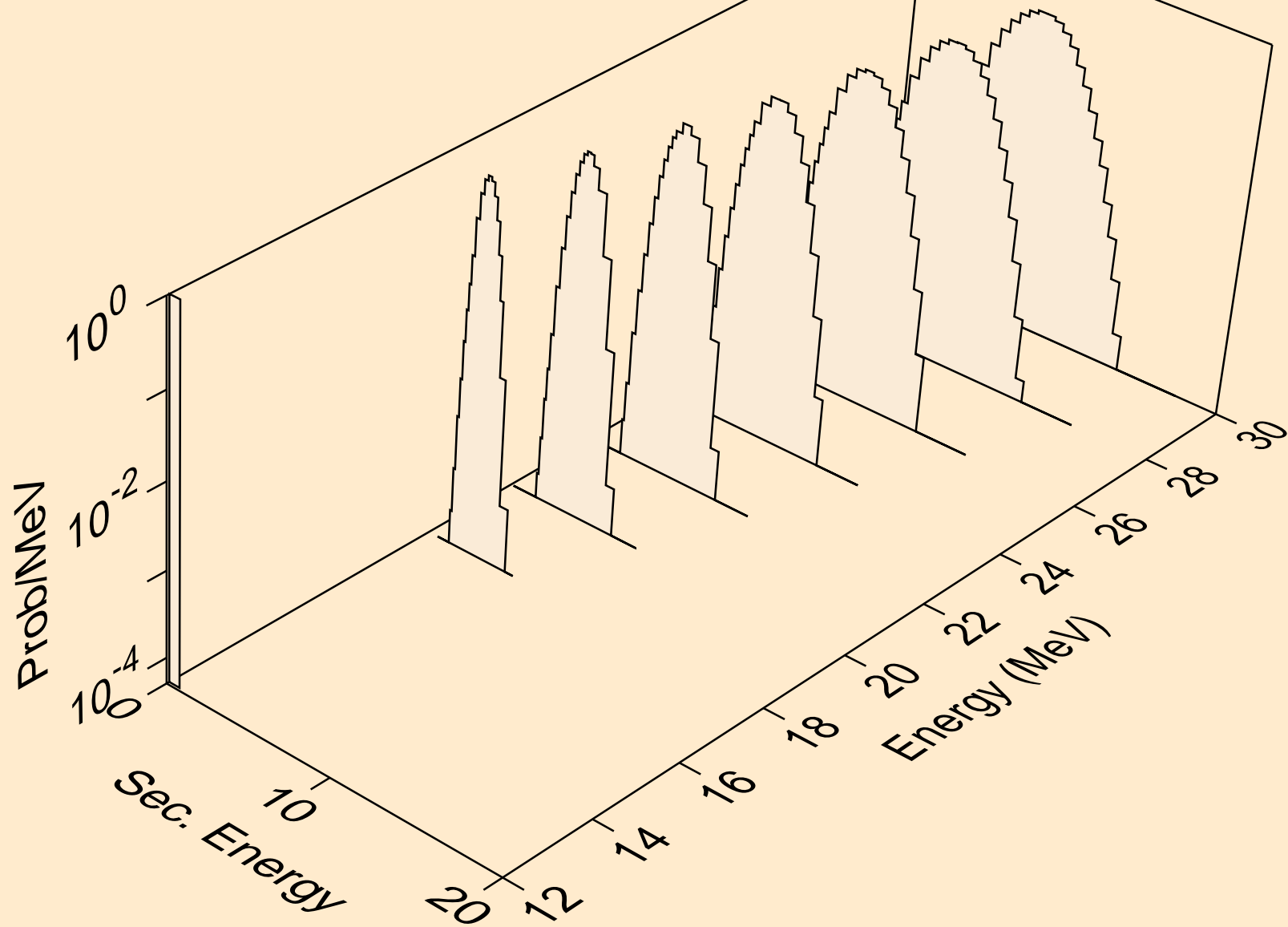
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protons from (n,2np)



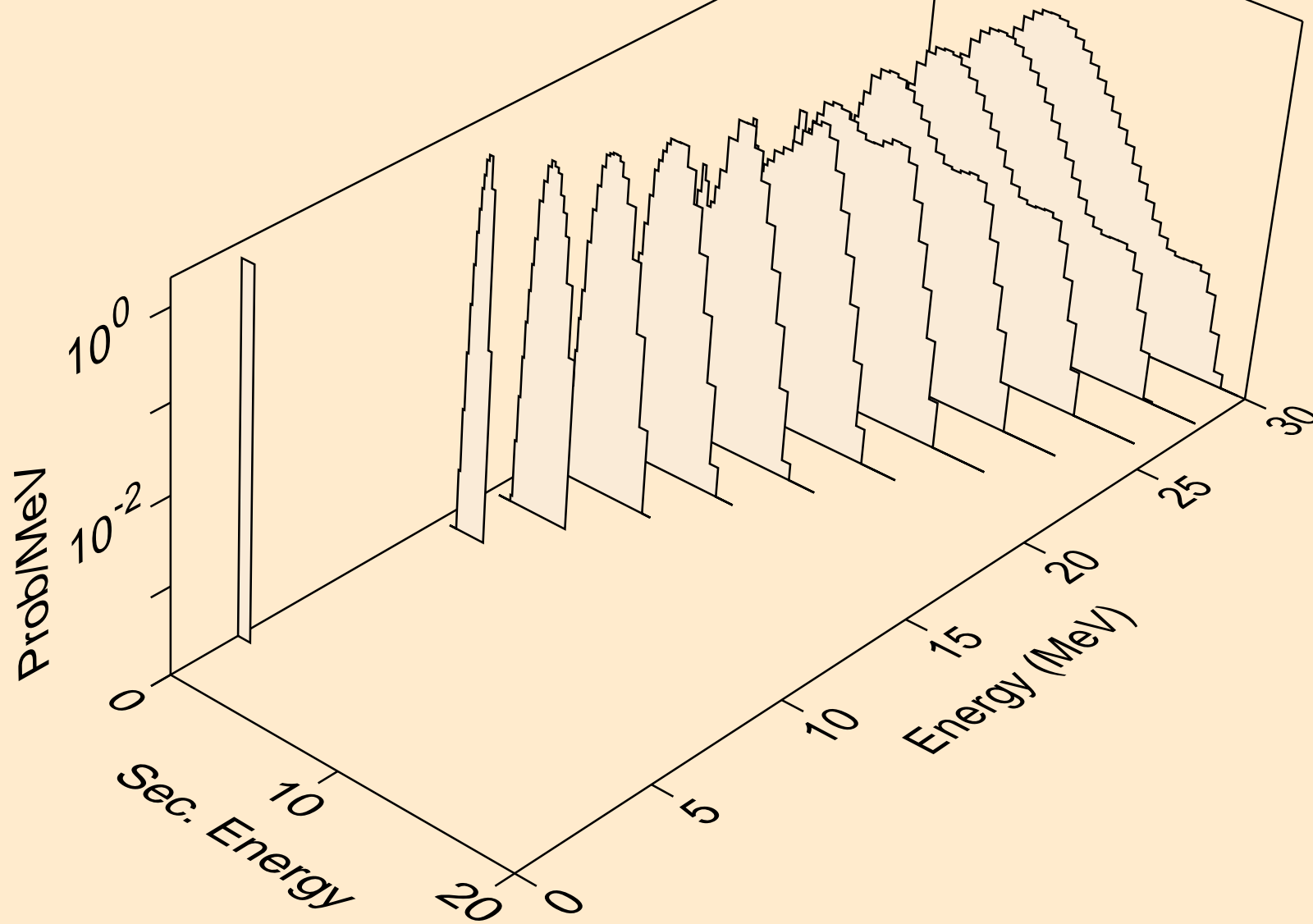
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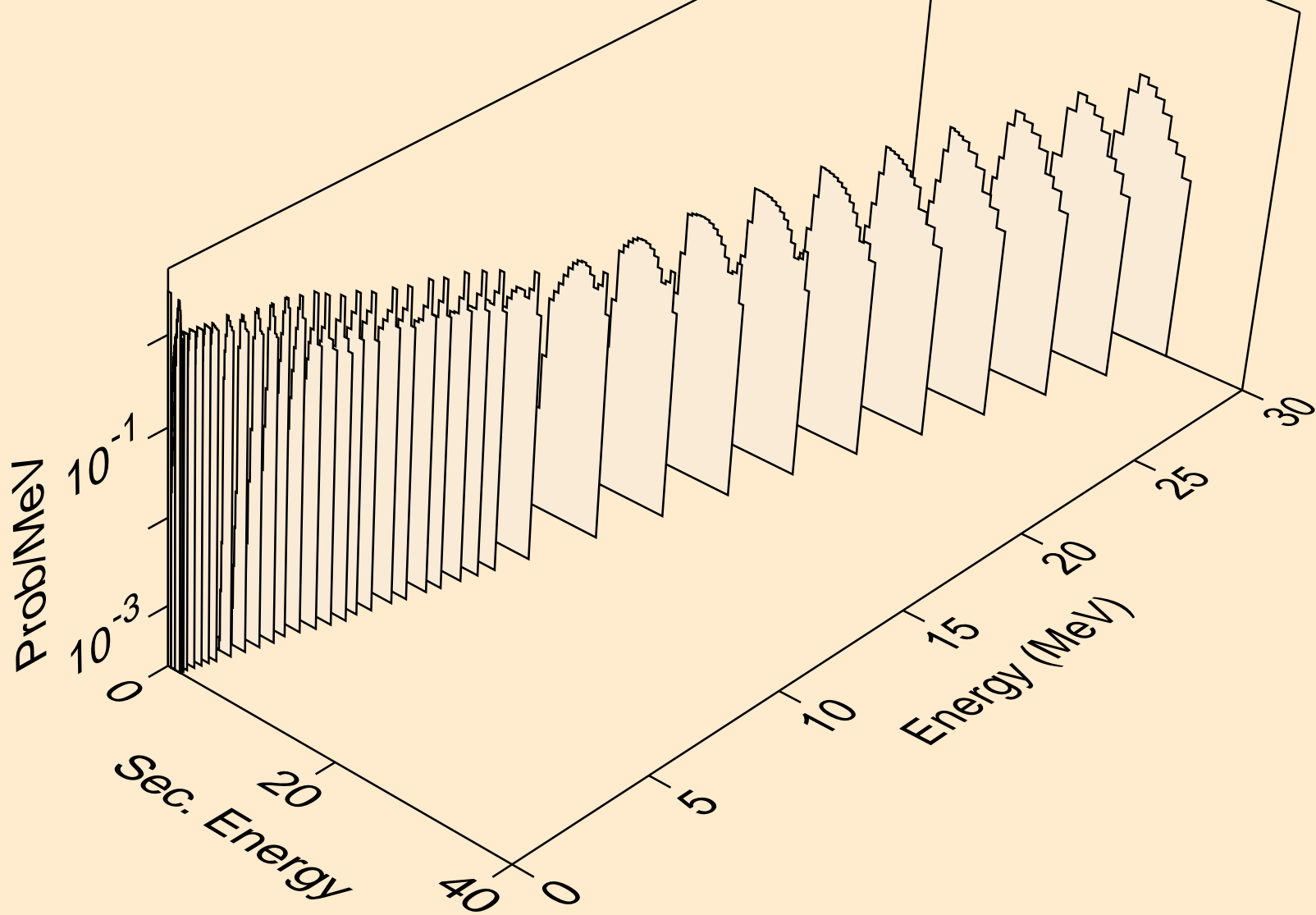
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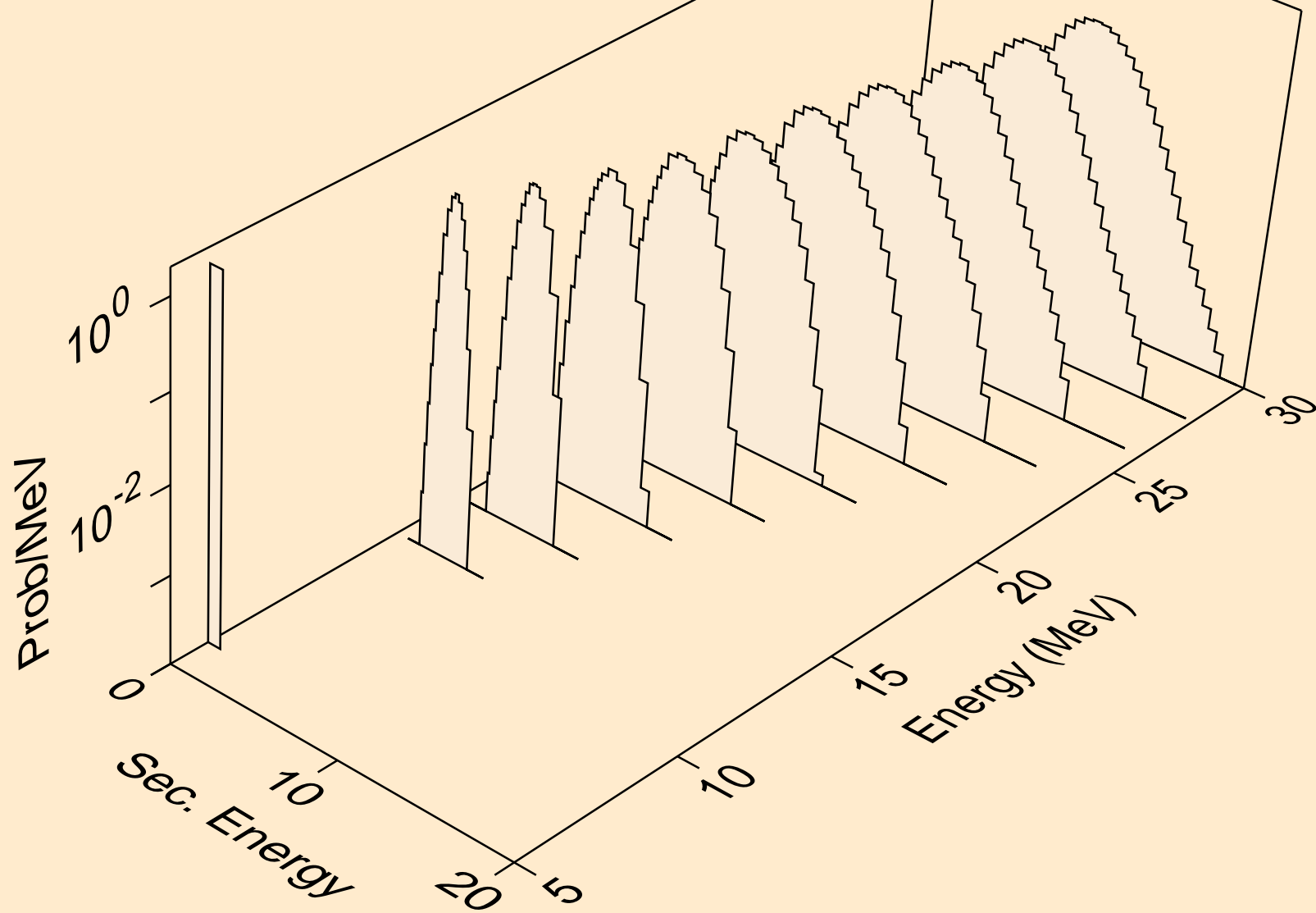
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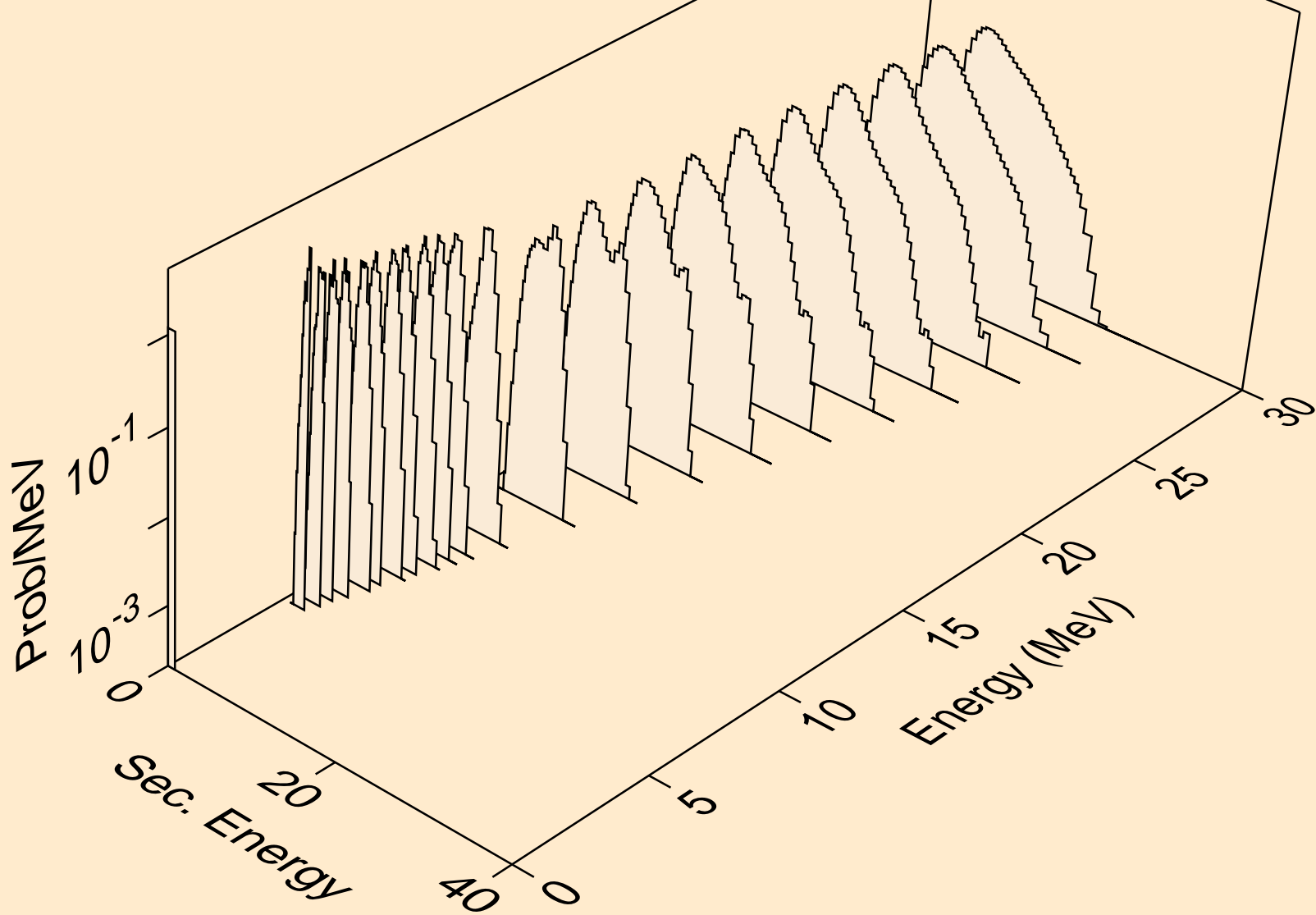
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protons from (n,p)



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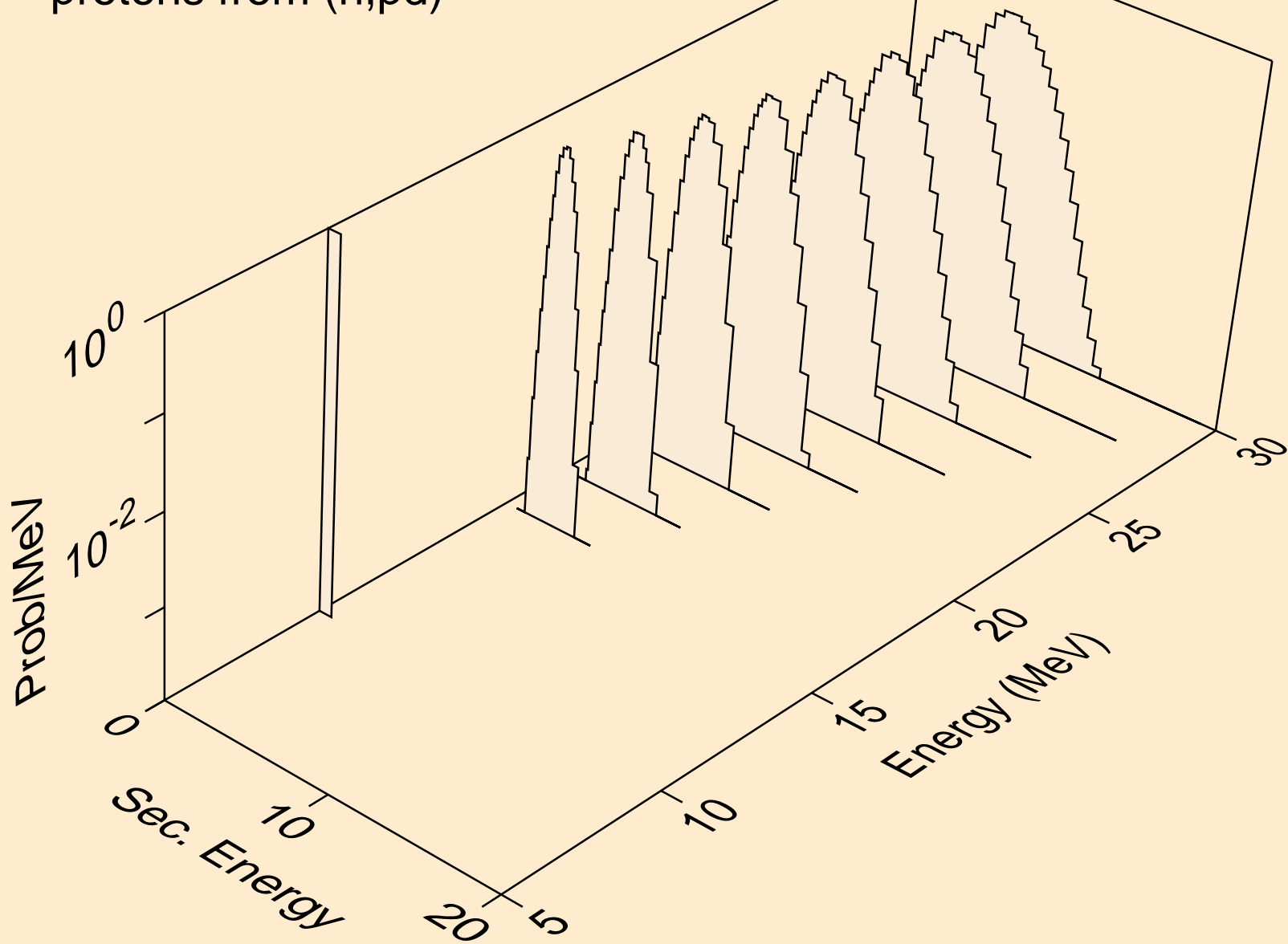


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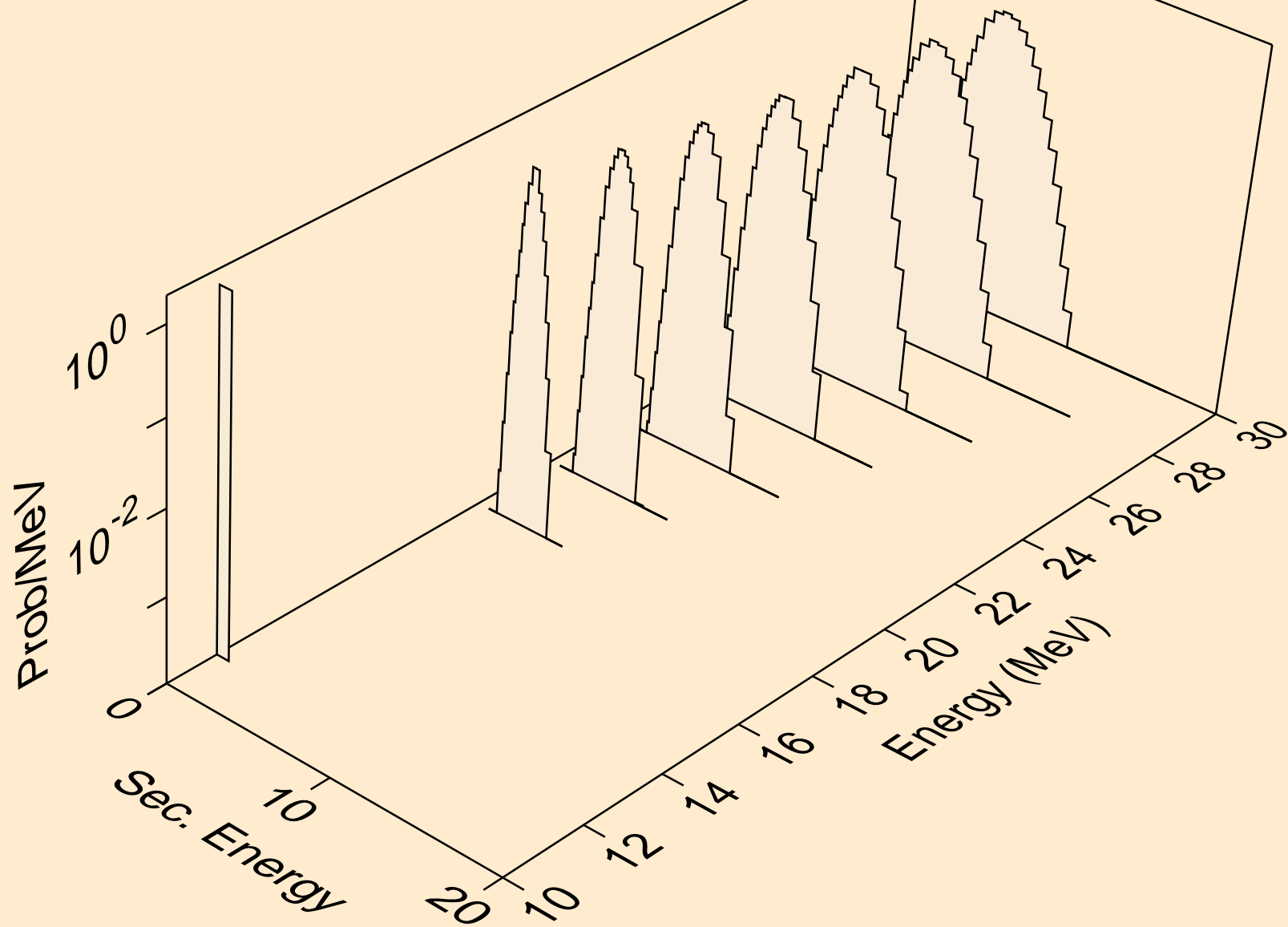




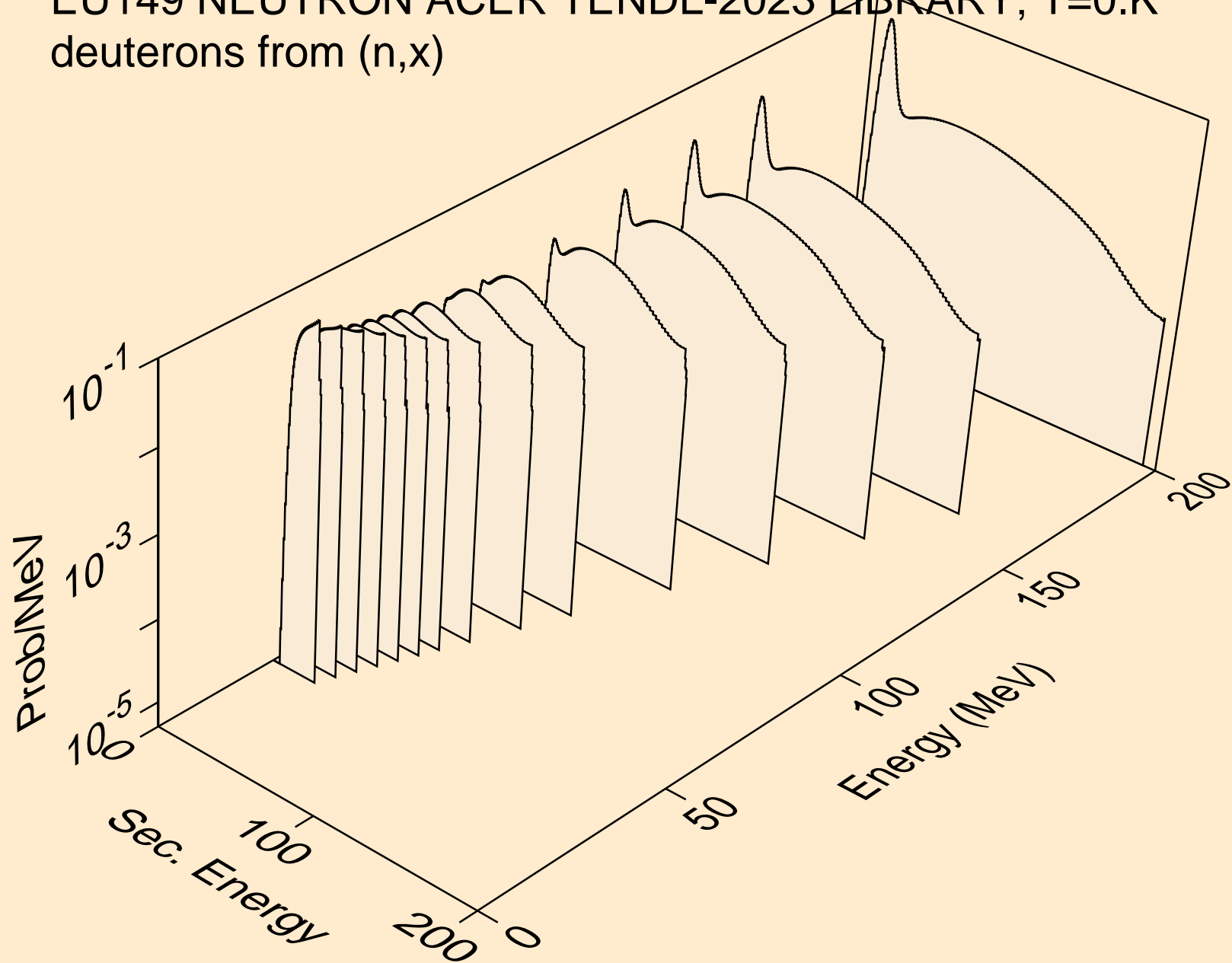
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protons from (n,pd)



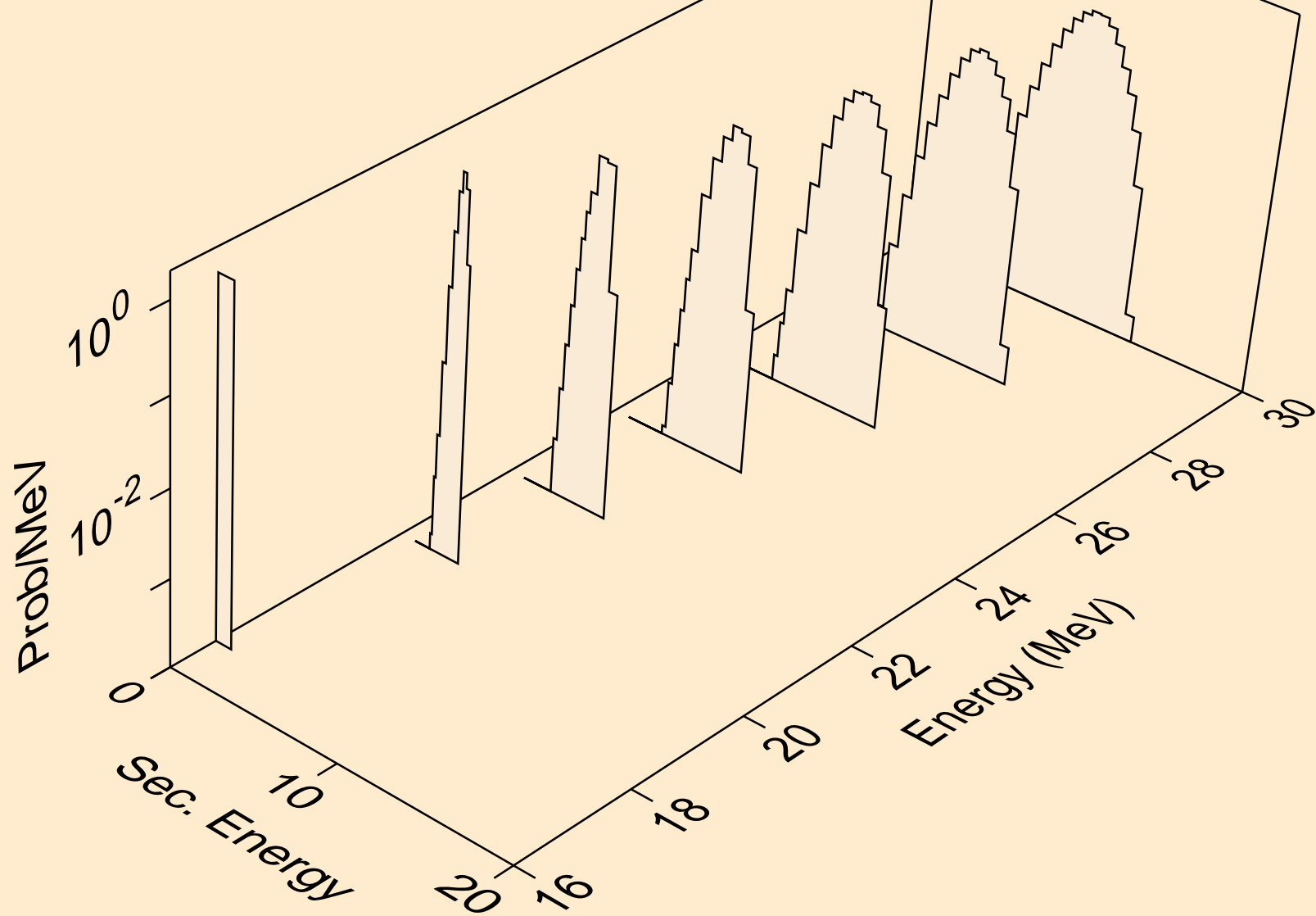
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protons from (n,pt)



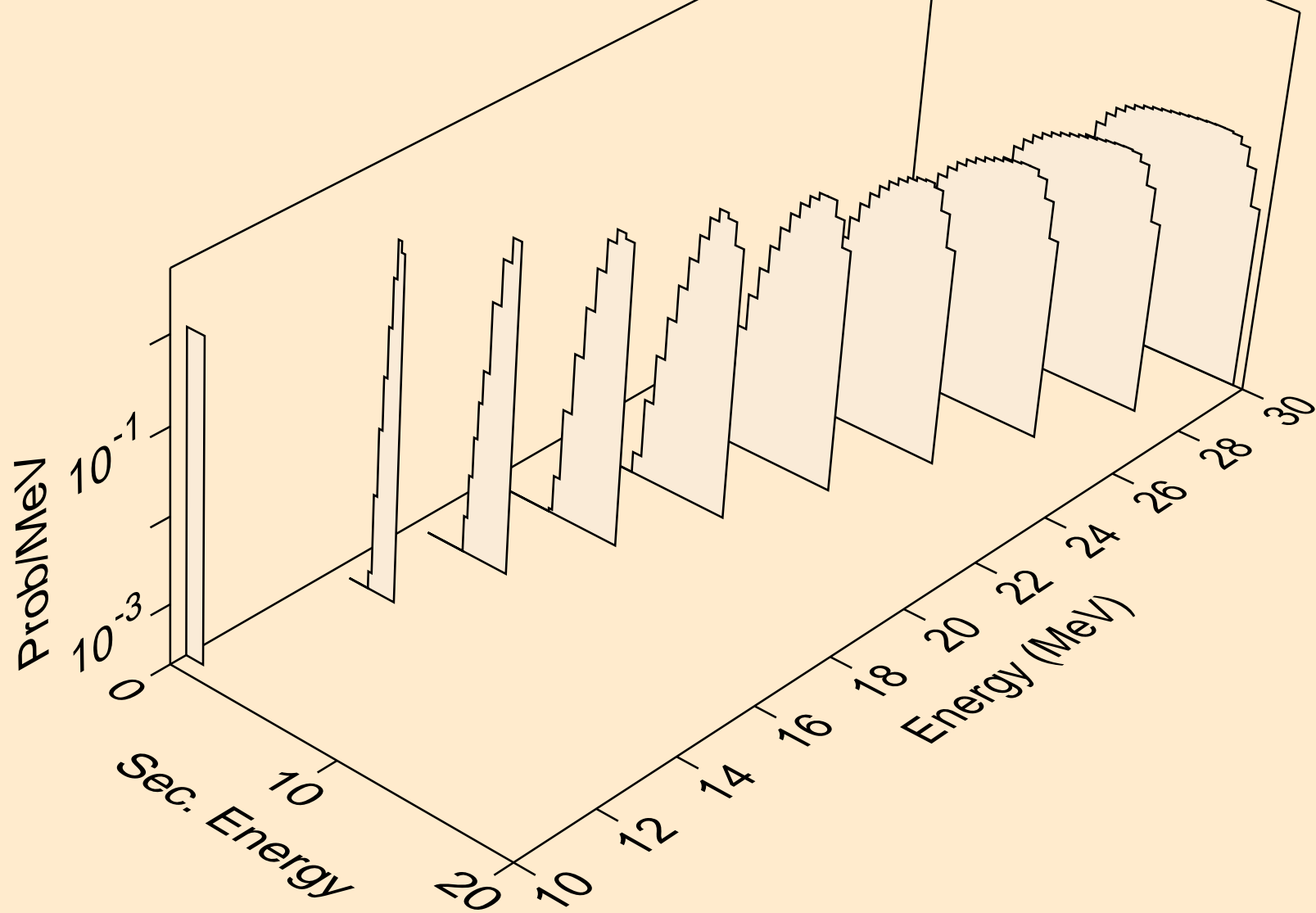
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deuterons from (n,x)



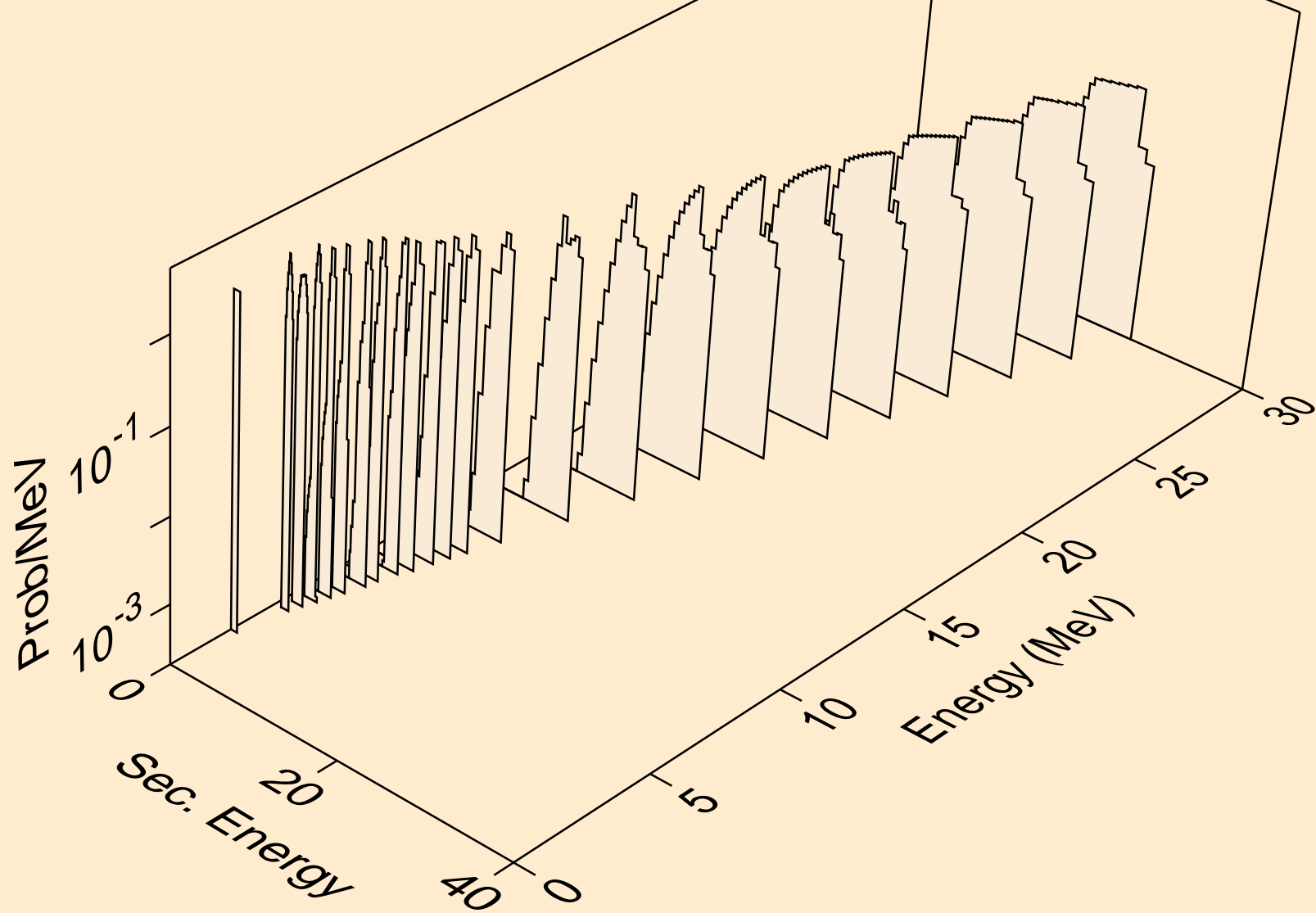
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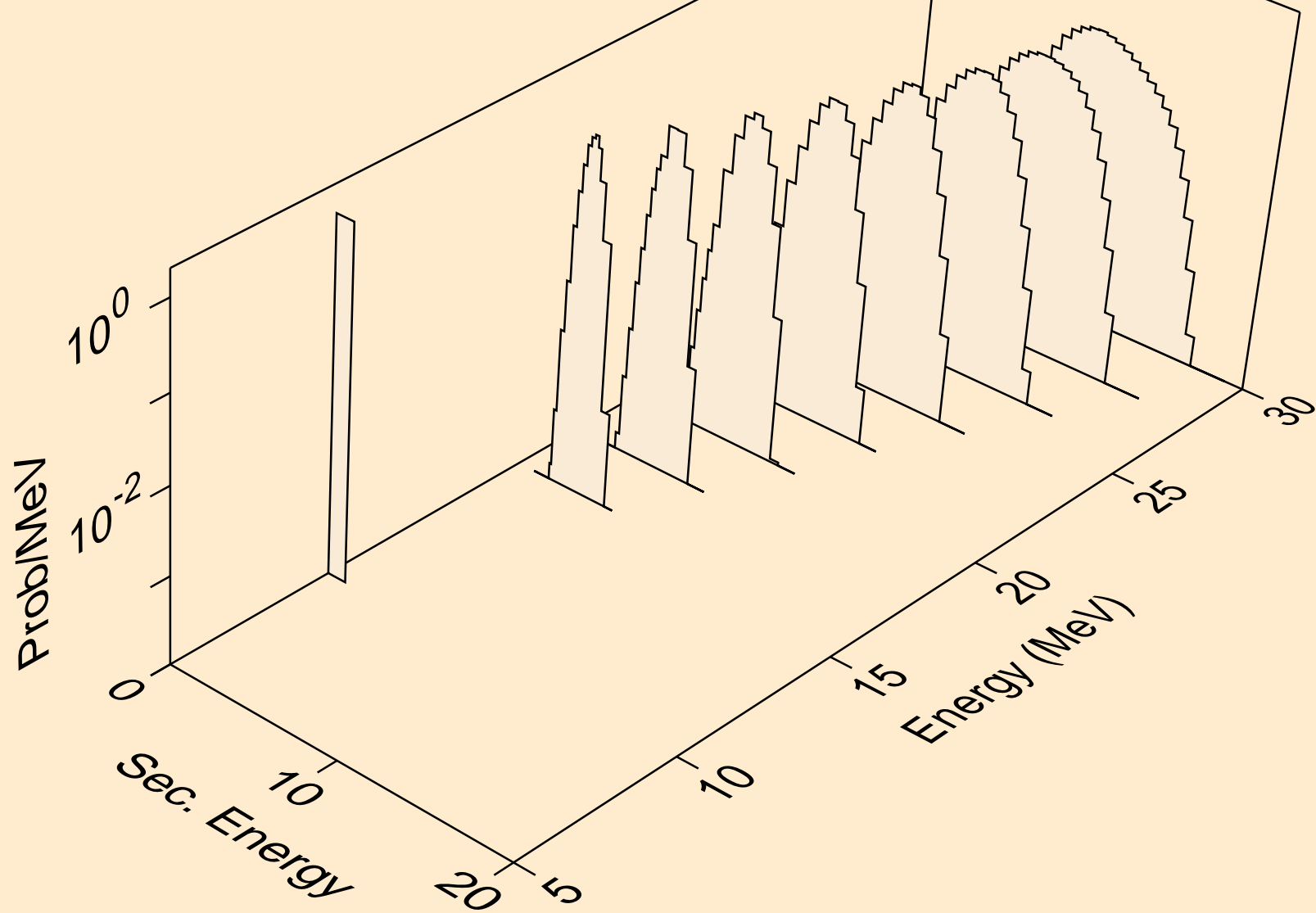
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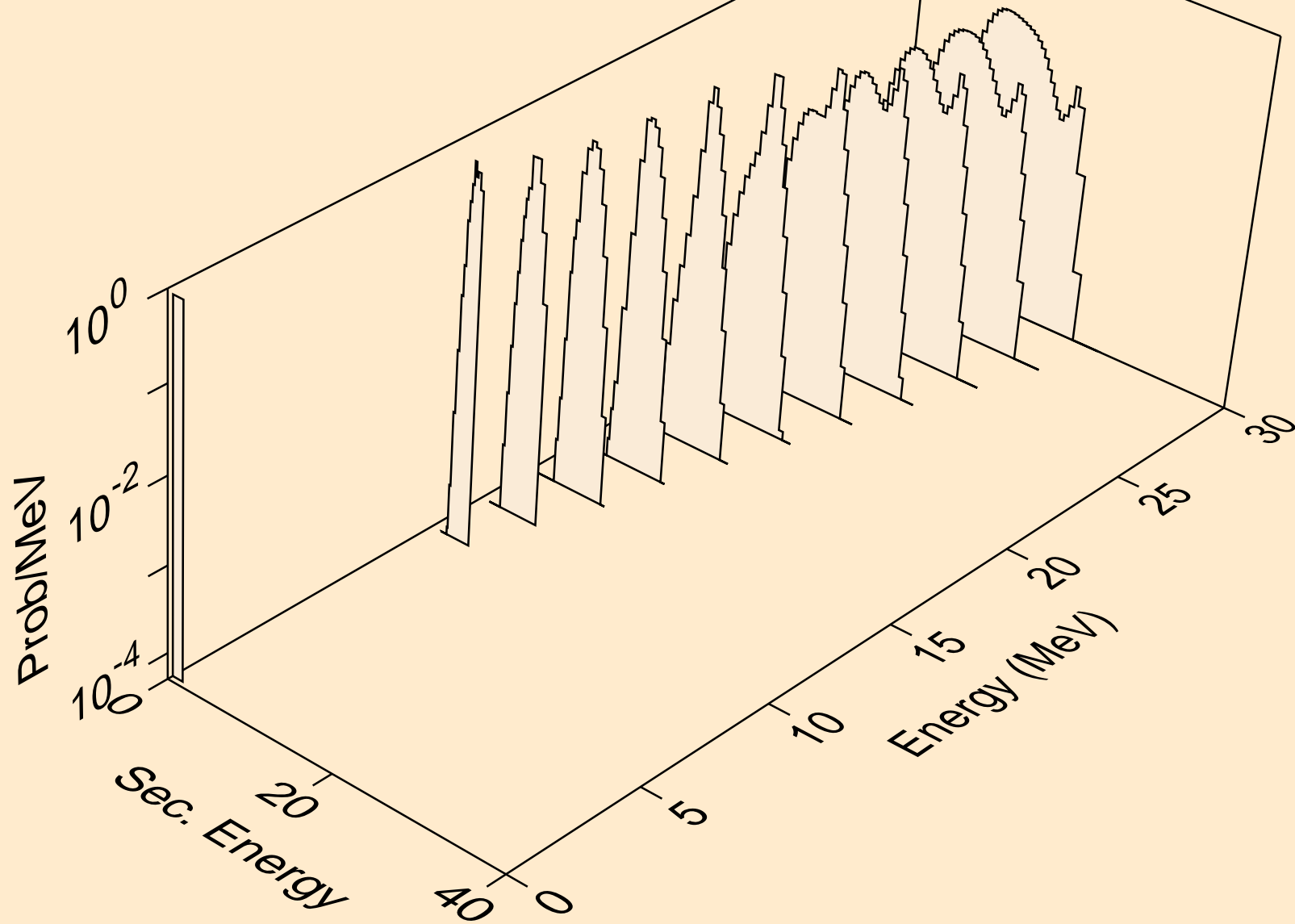
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deuterons from (n,d)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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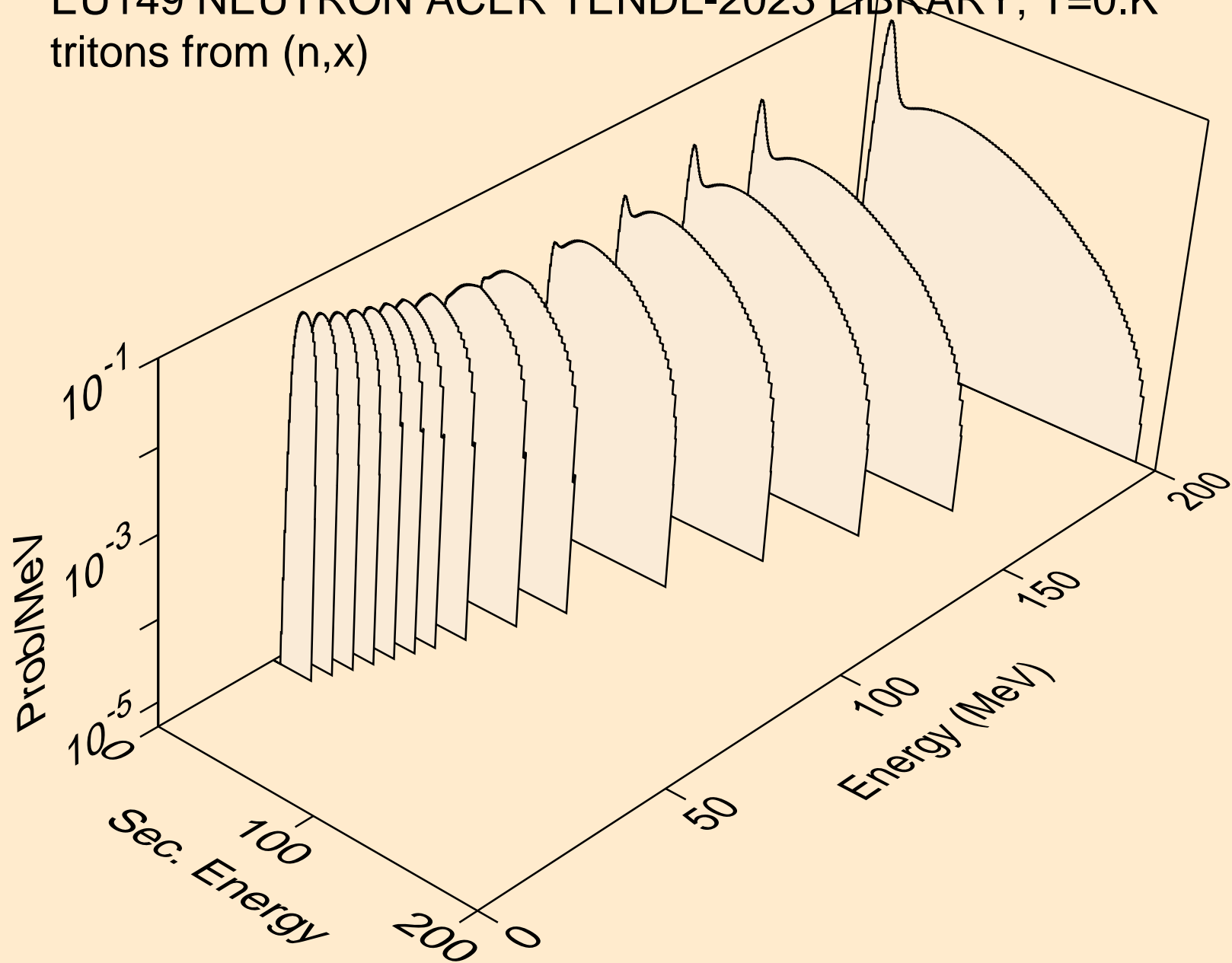


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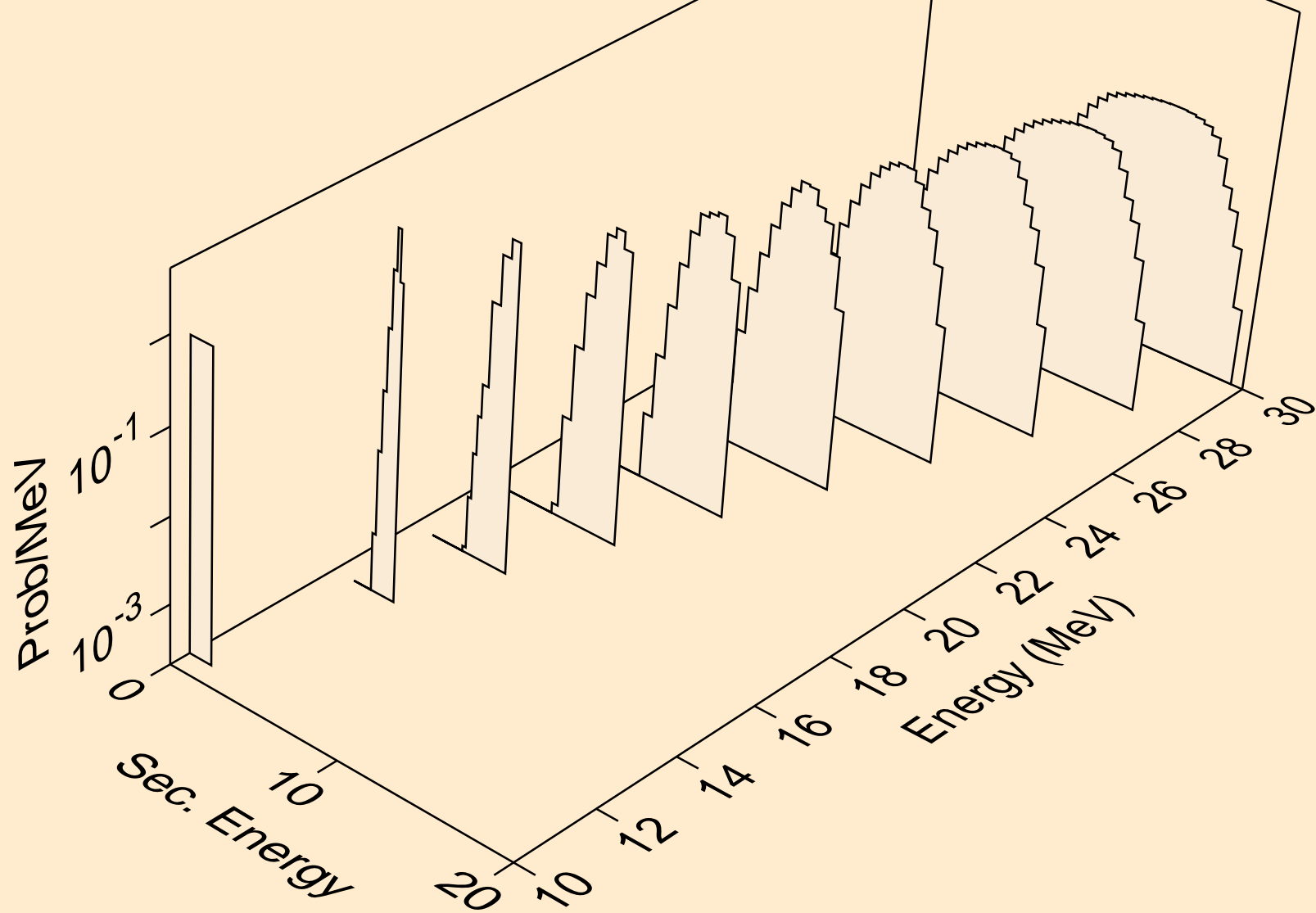




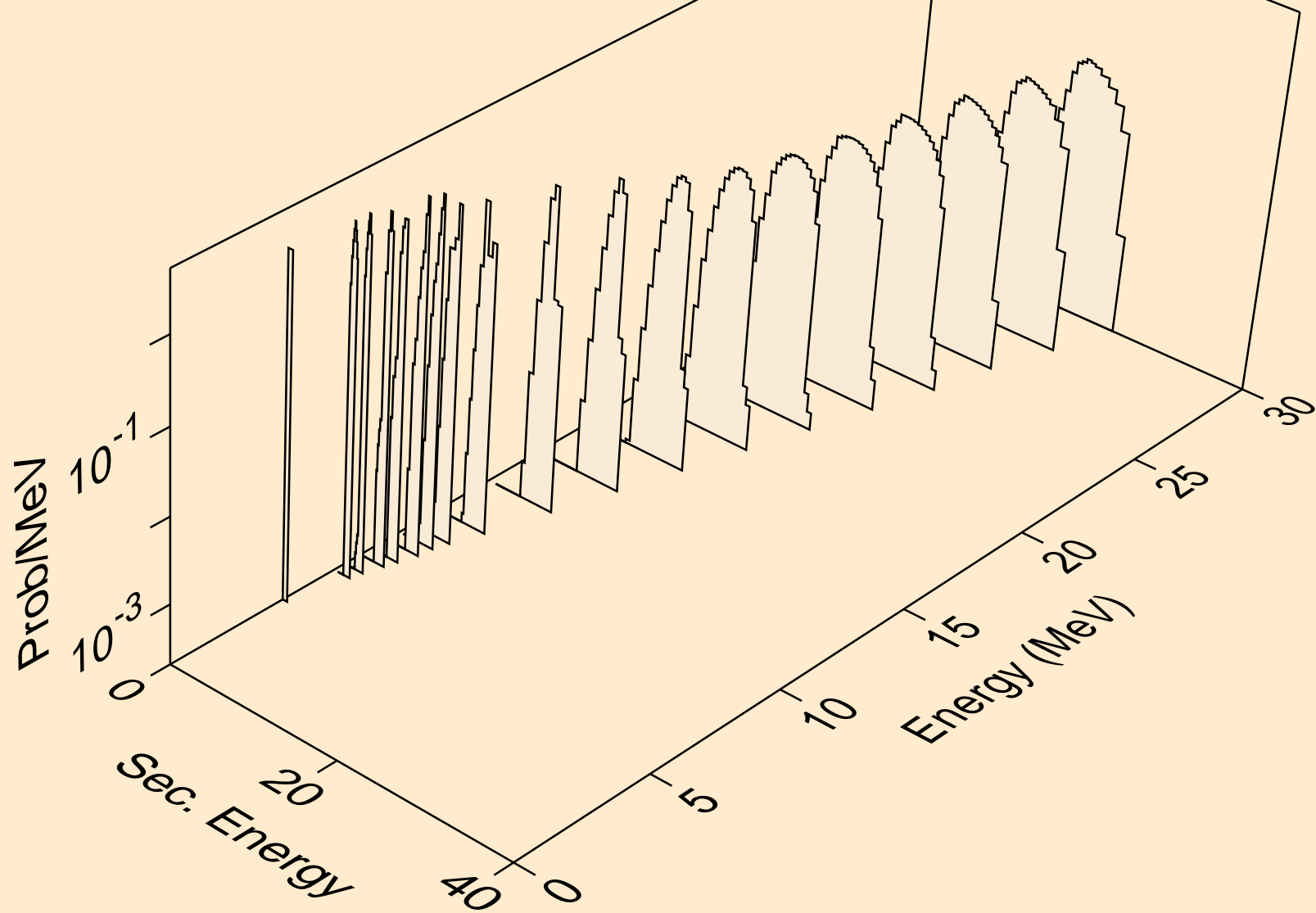
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tritons from (n,x)



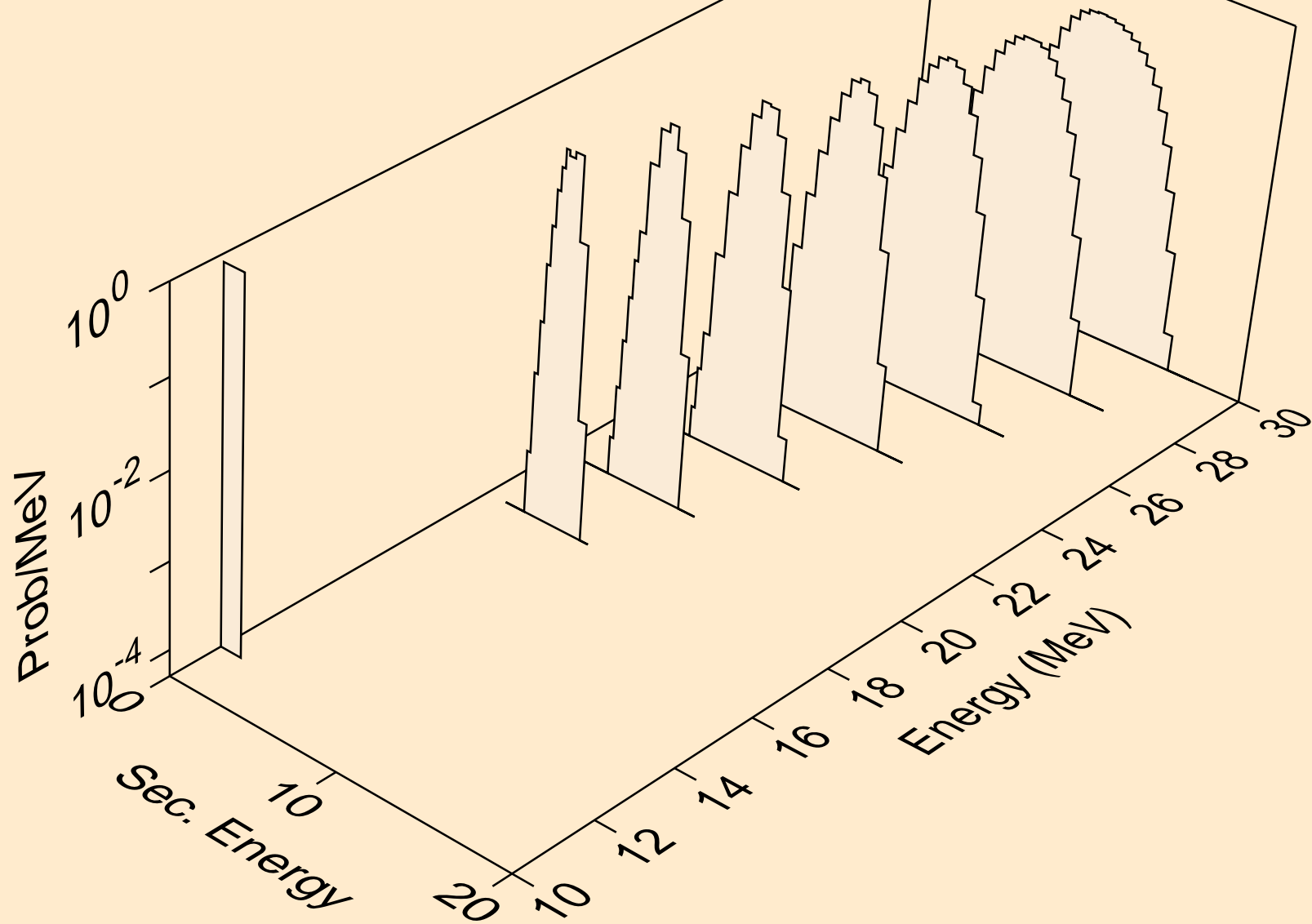
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tritons from (n,n\*)t



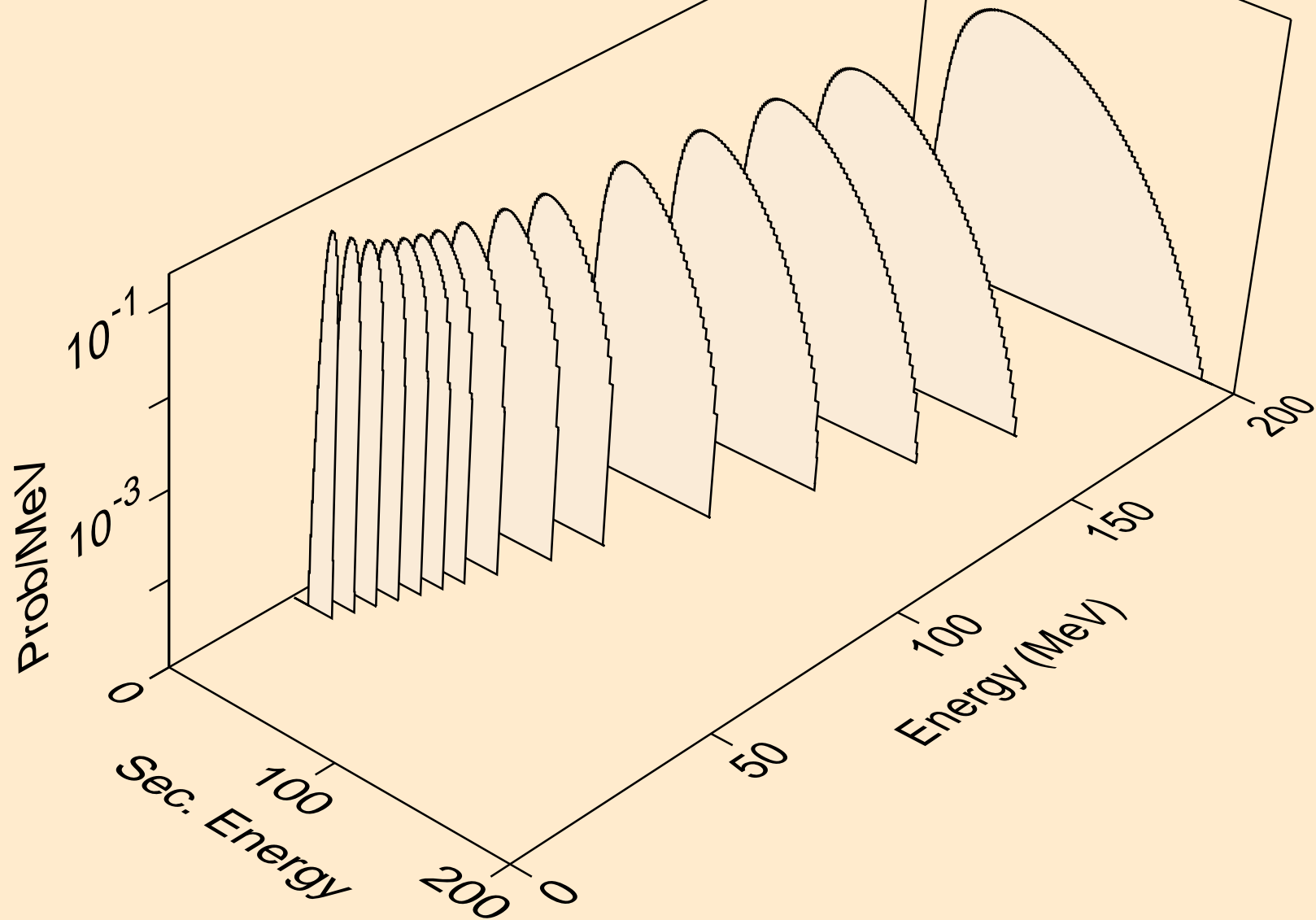
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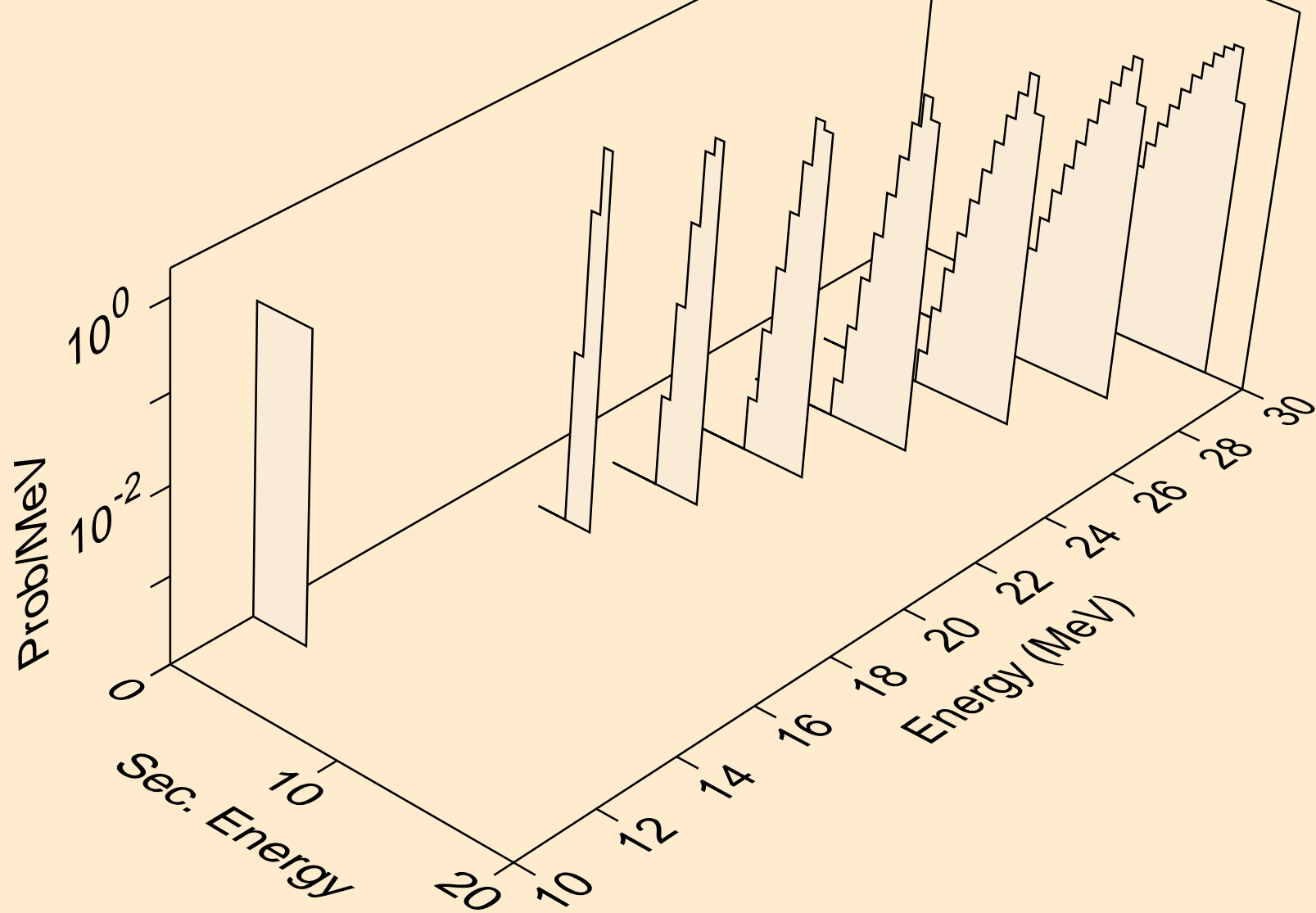
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tritons from (n,pt)



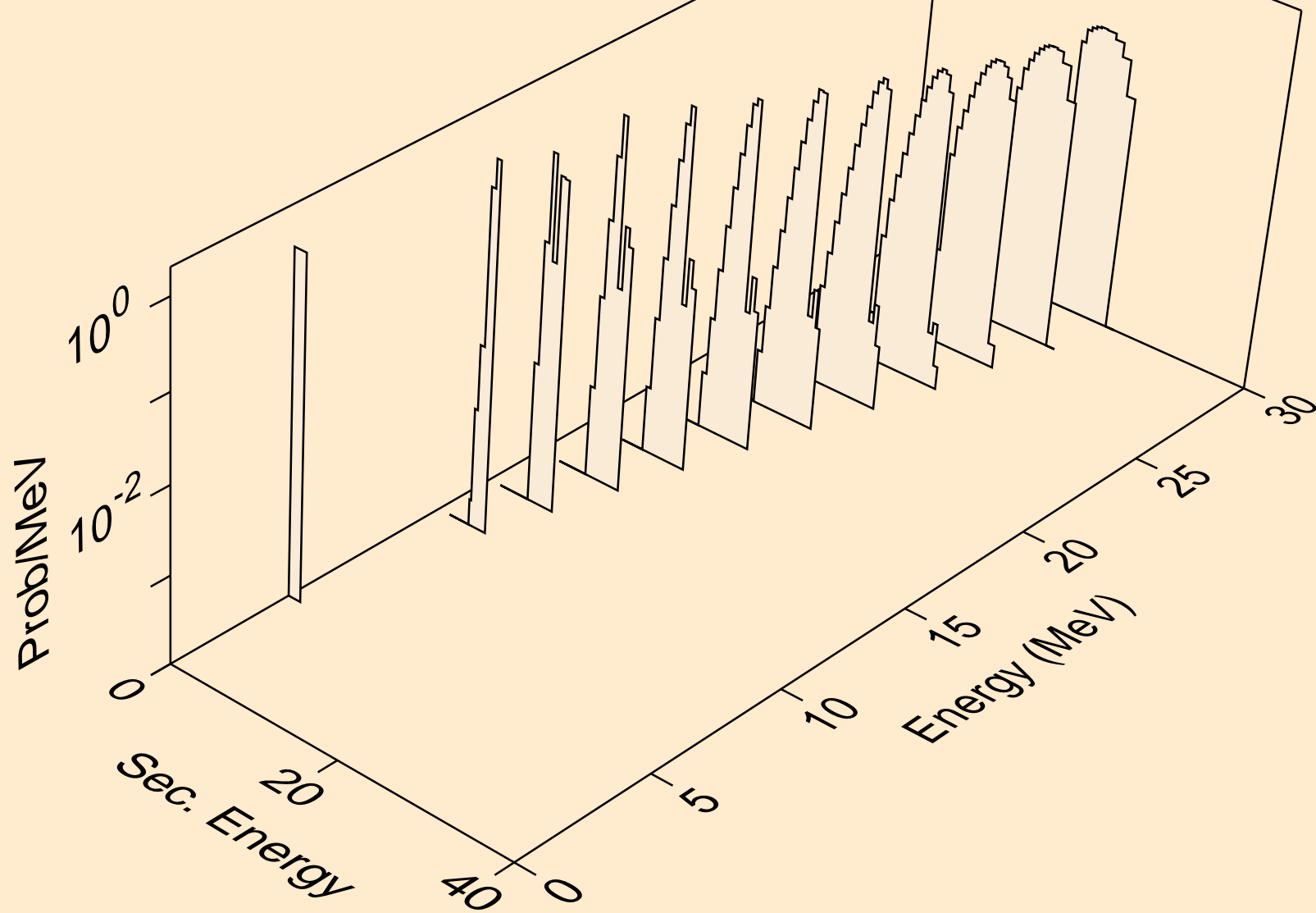
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he3s from (n,x)



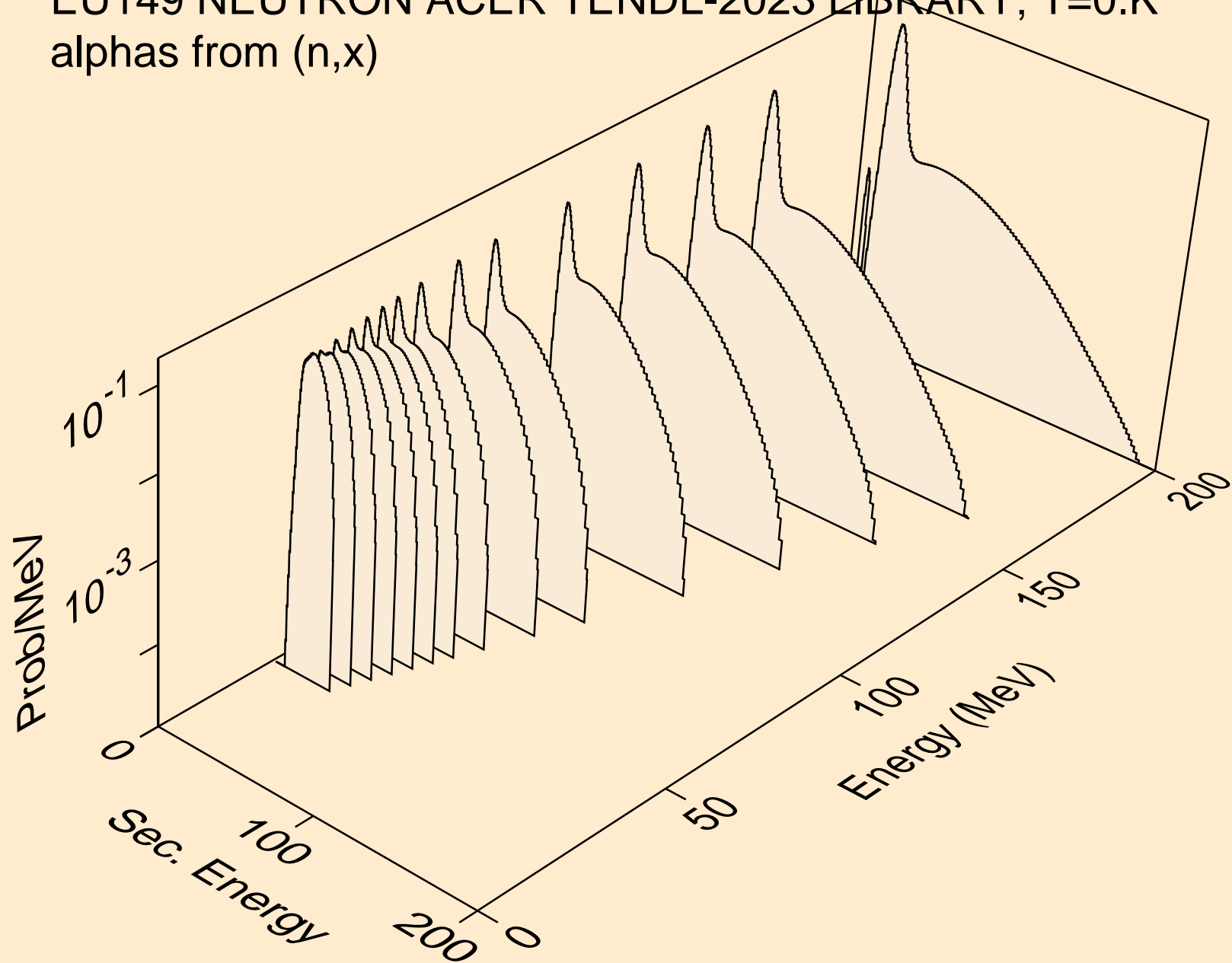
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he3s from (n,n\*)he3



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)

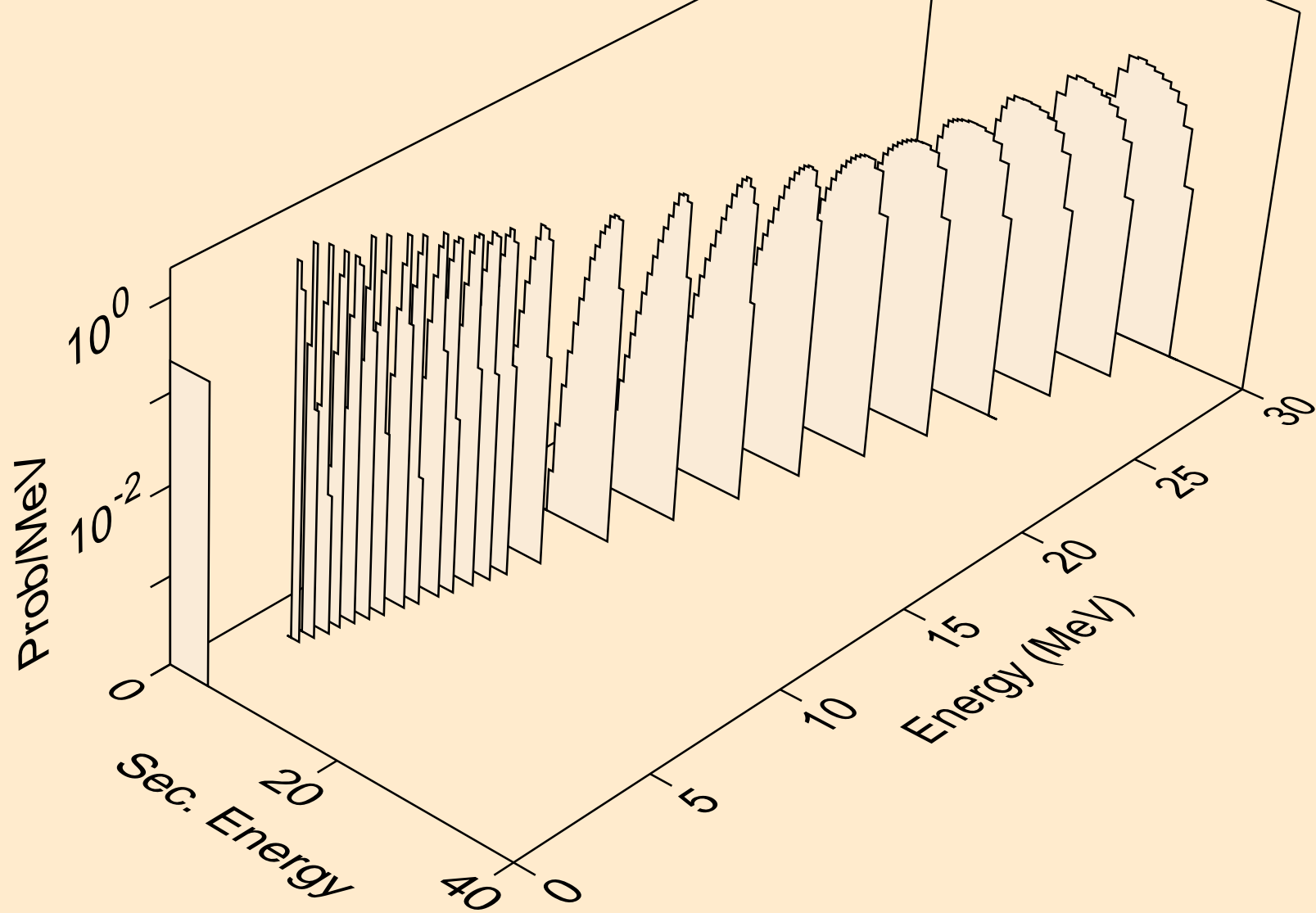


EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)

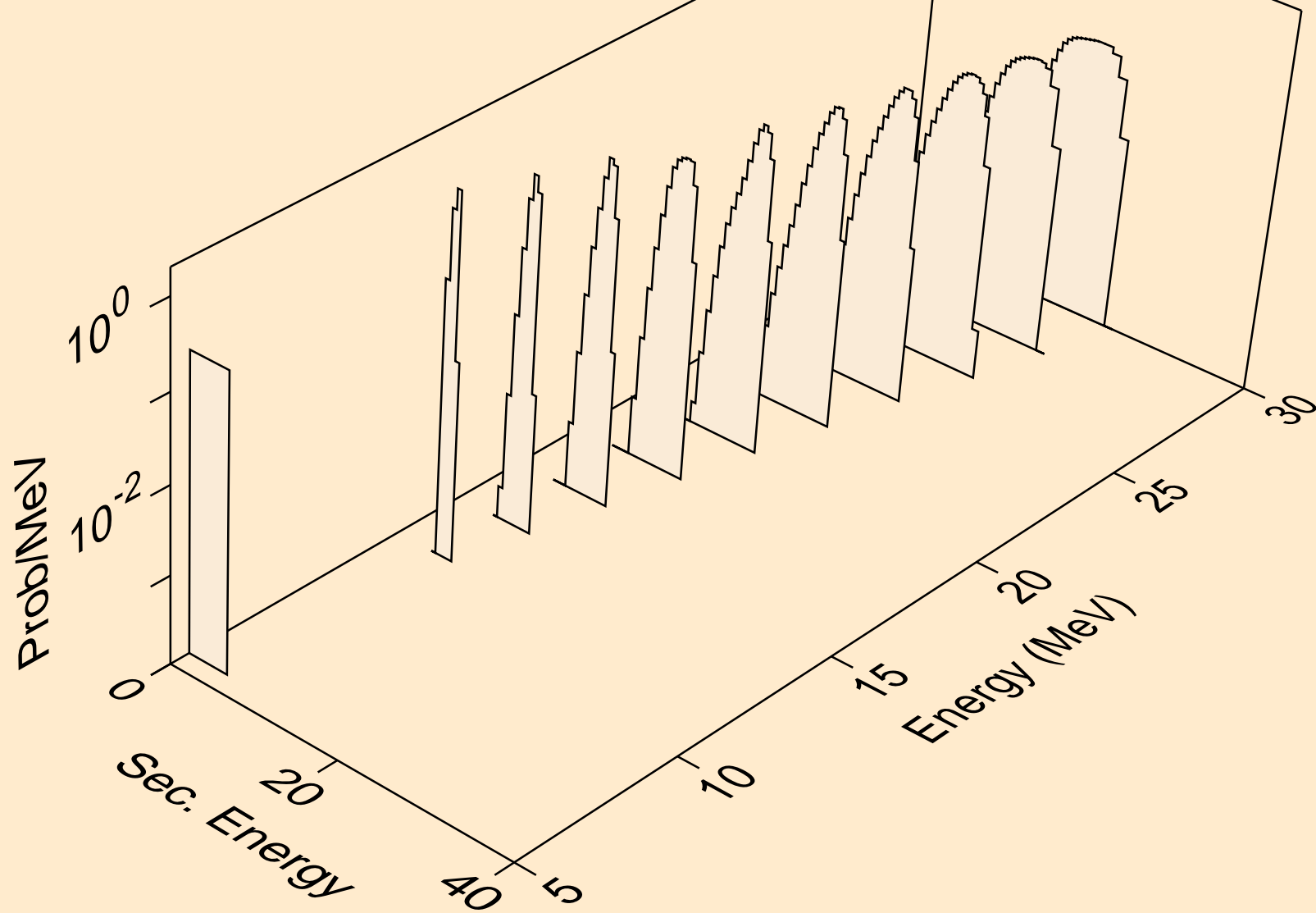




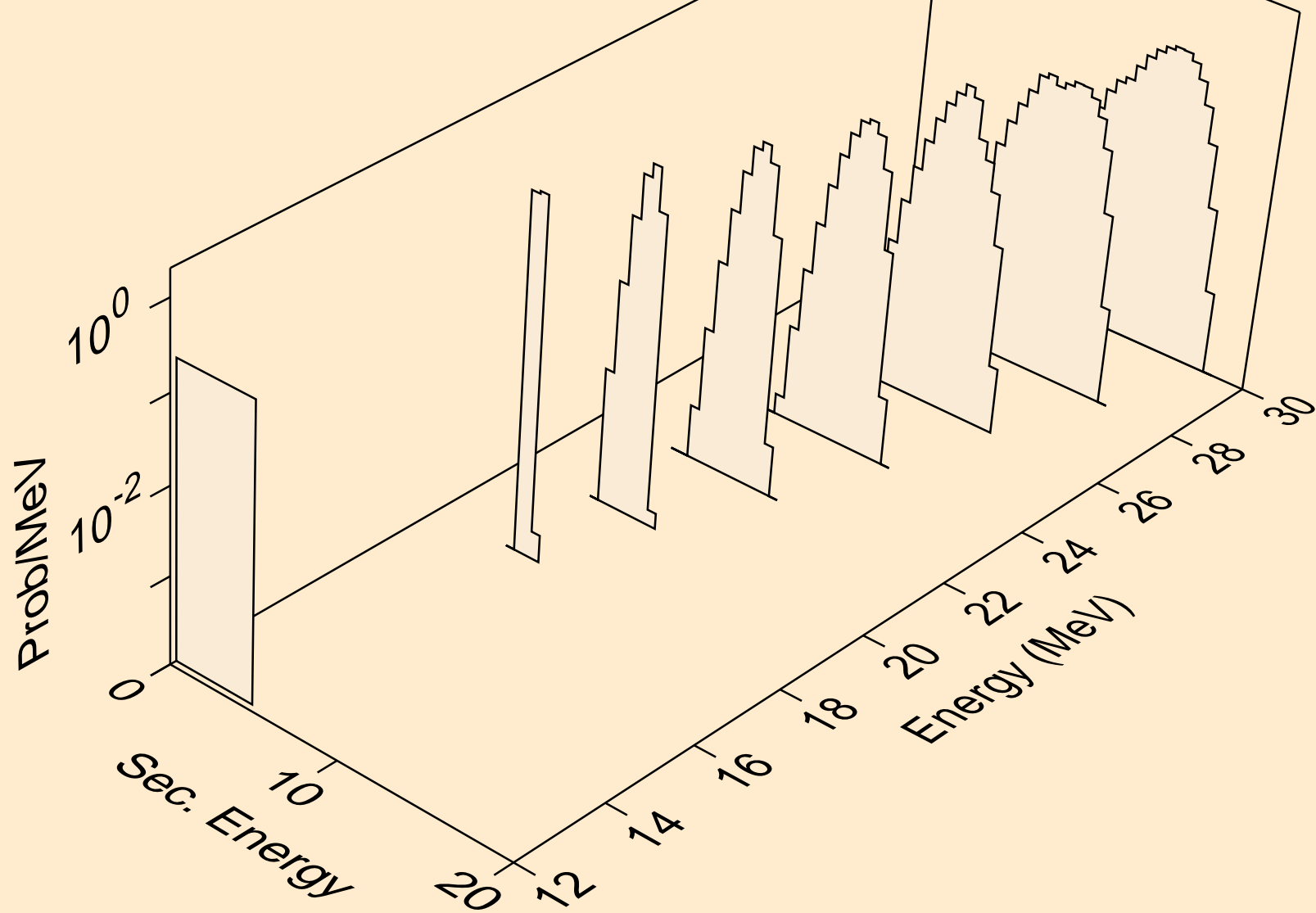
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



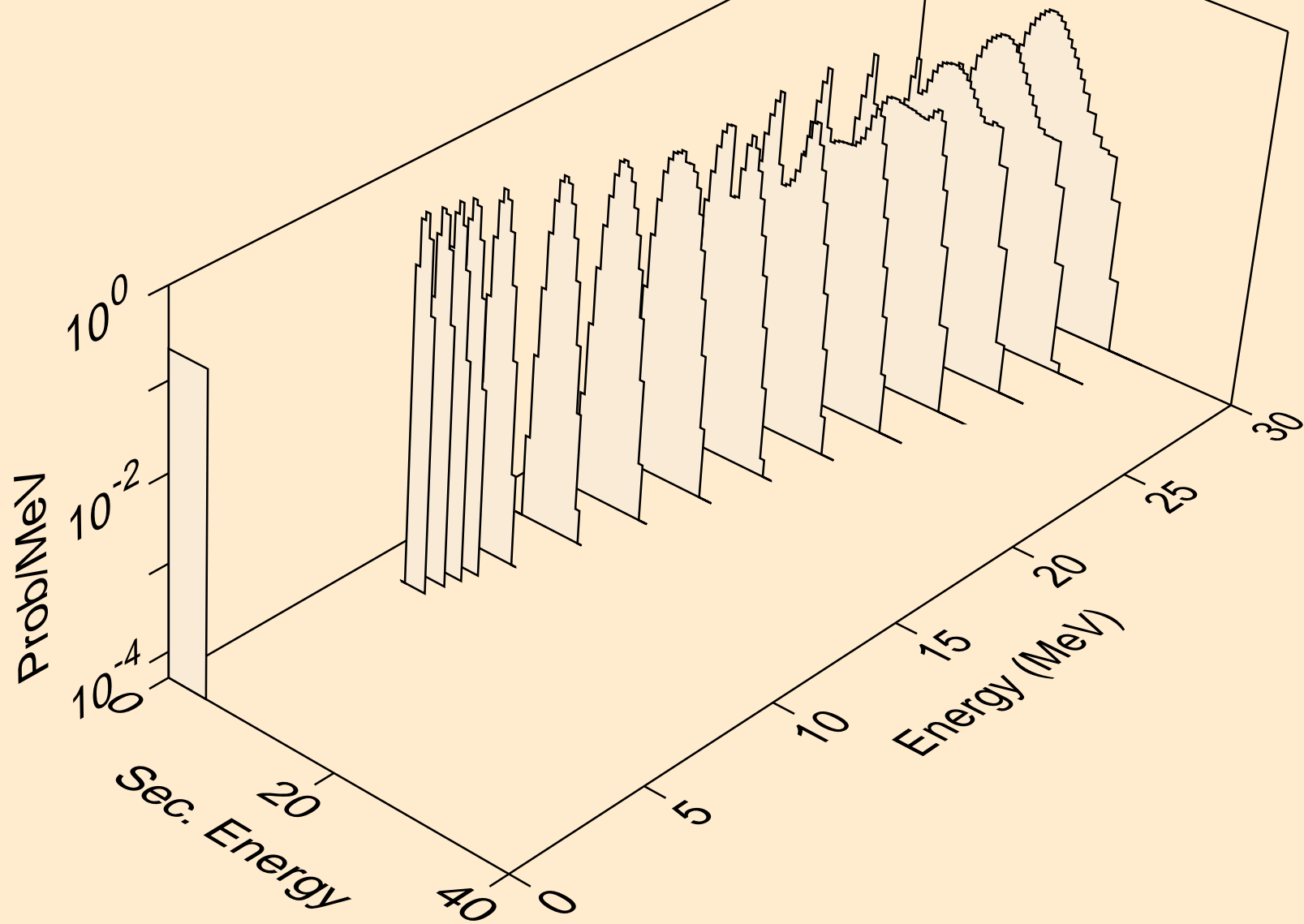
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alphas from (n,2n)a



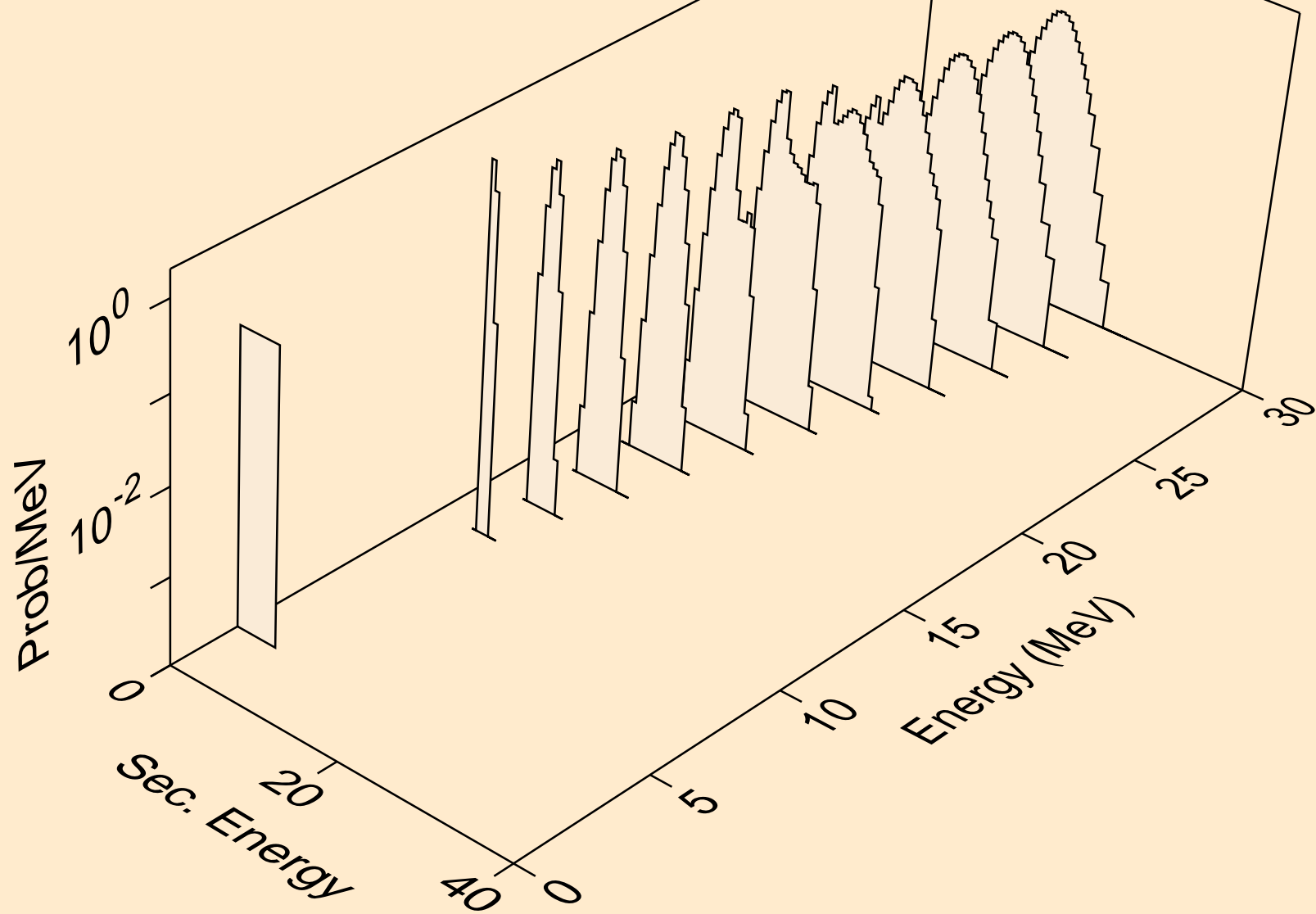
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alphas from (n,3n)a



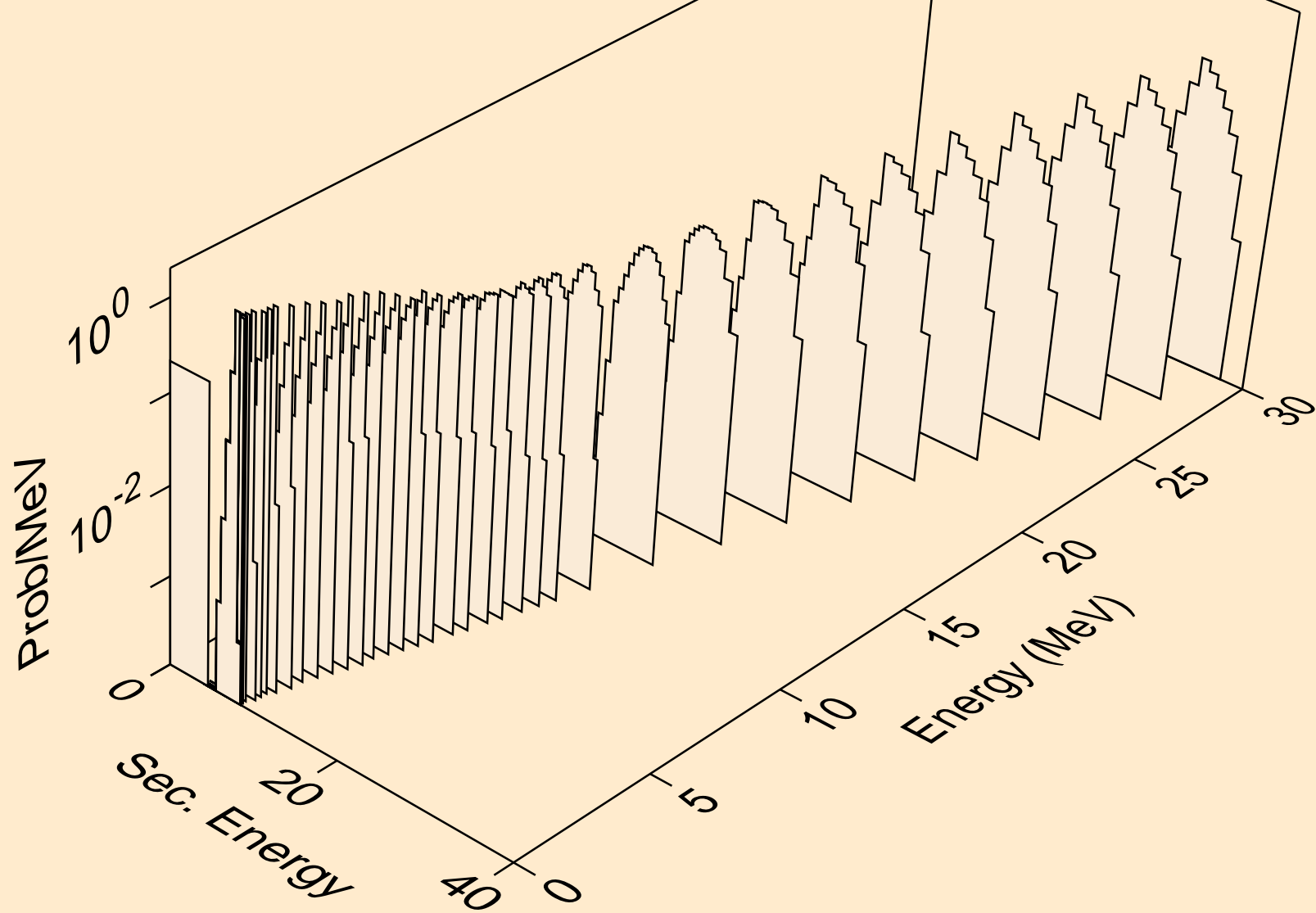
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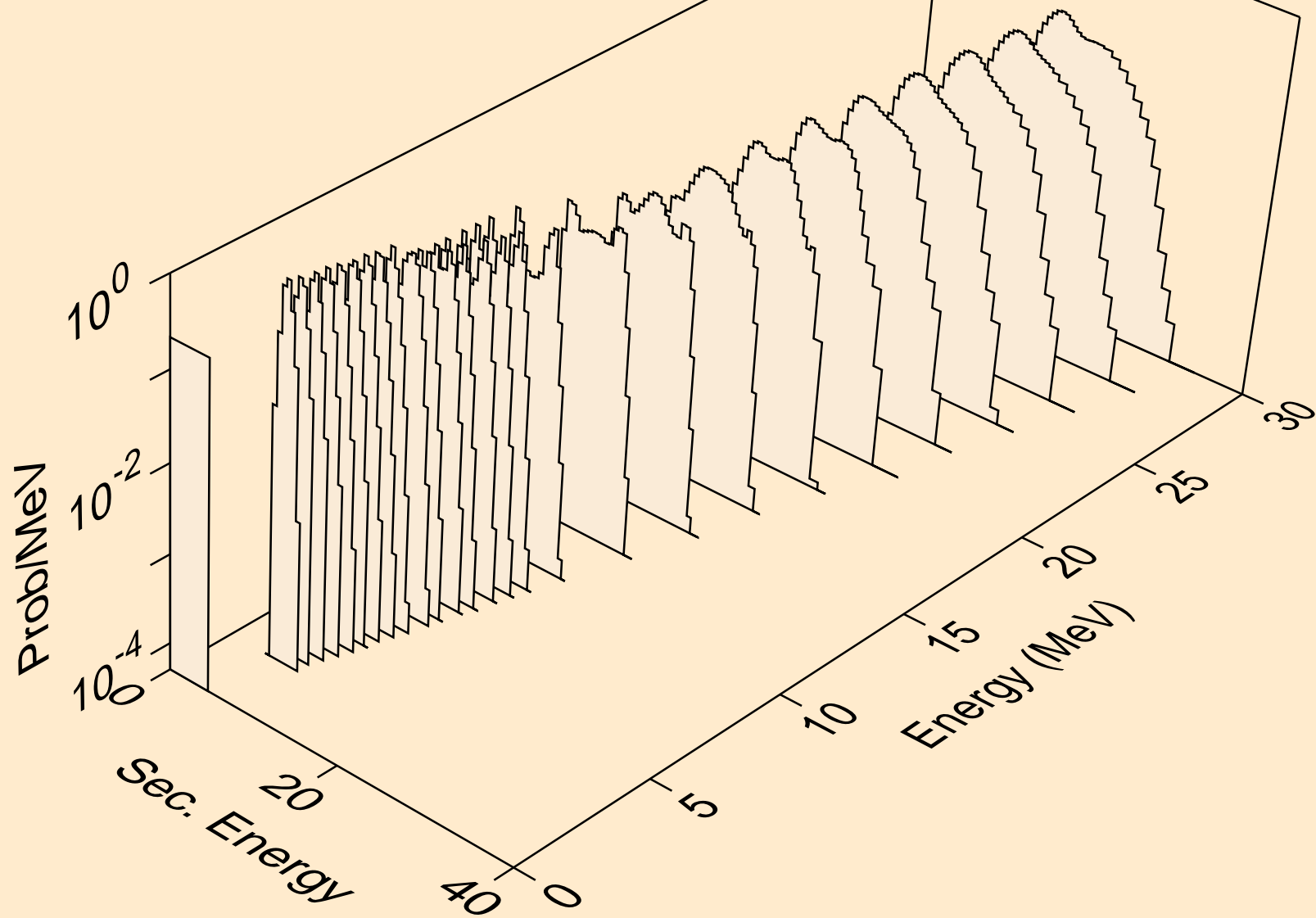
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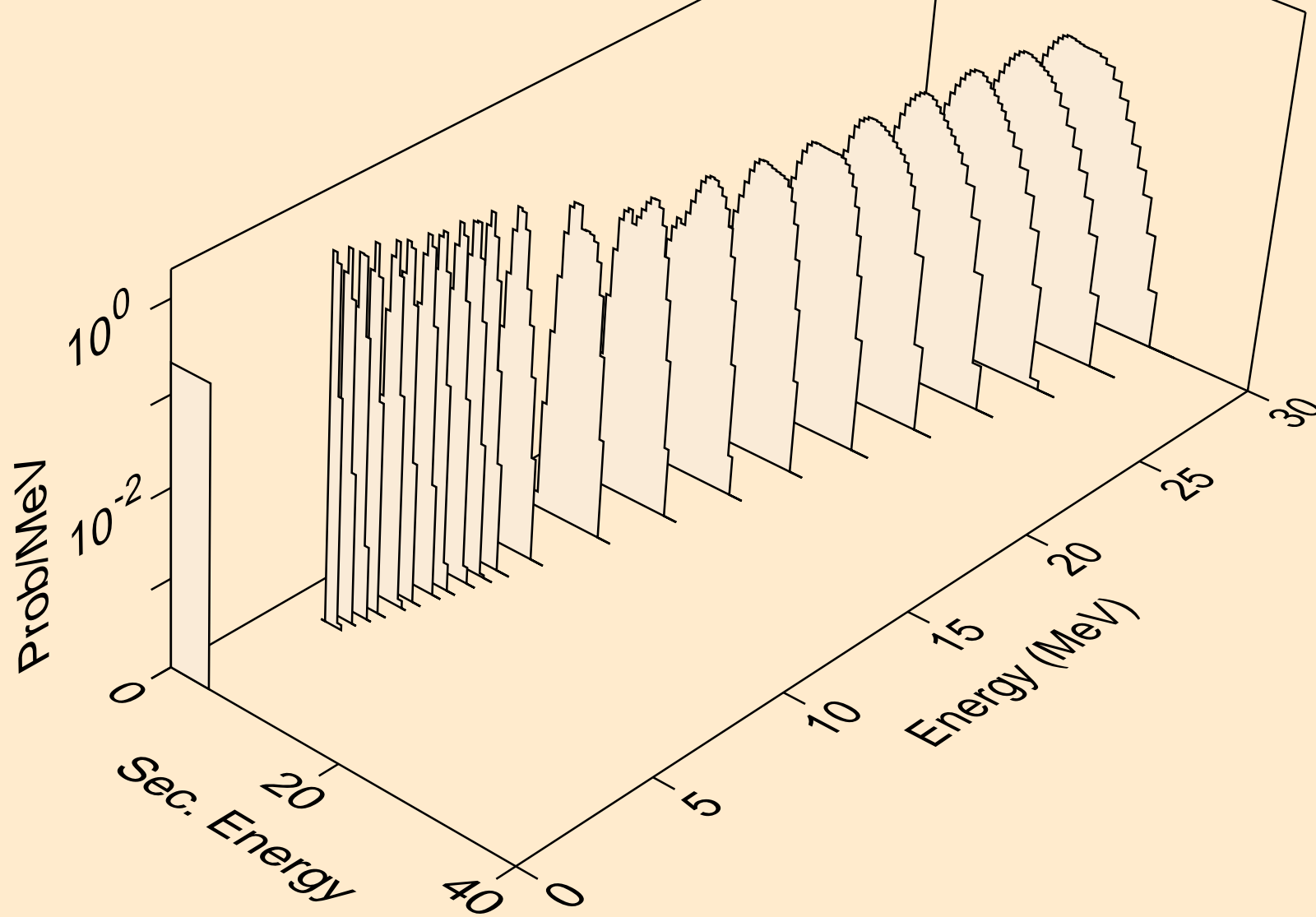
EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)





EU149 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

