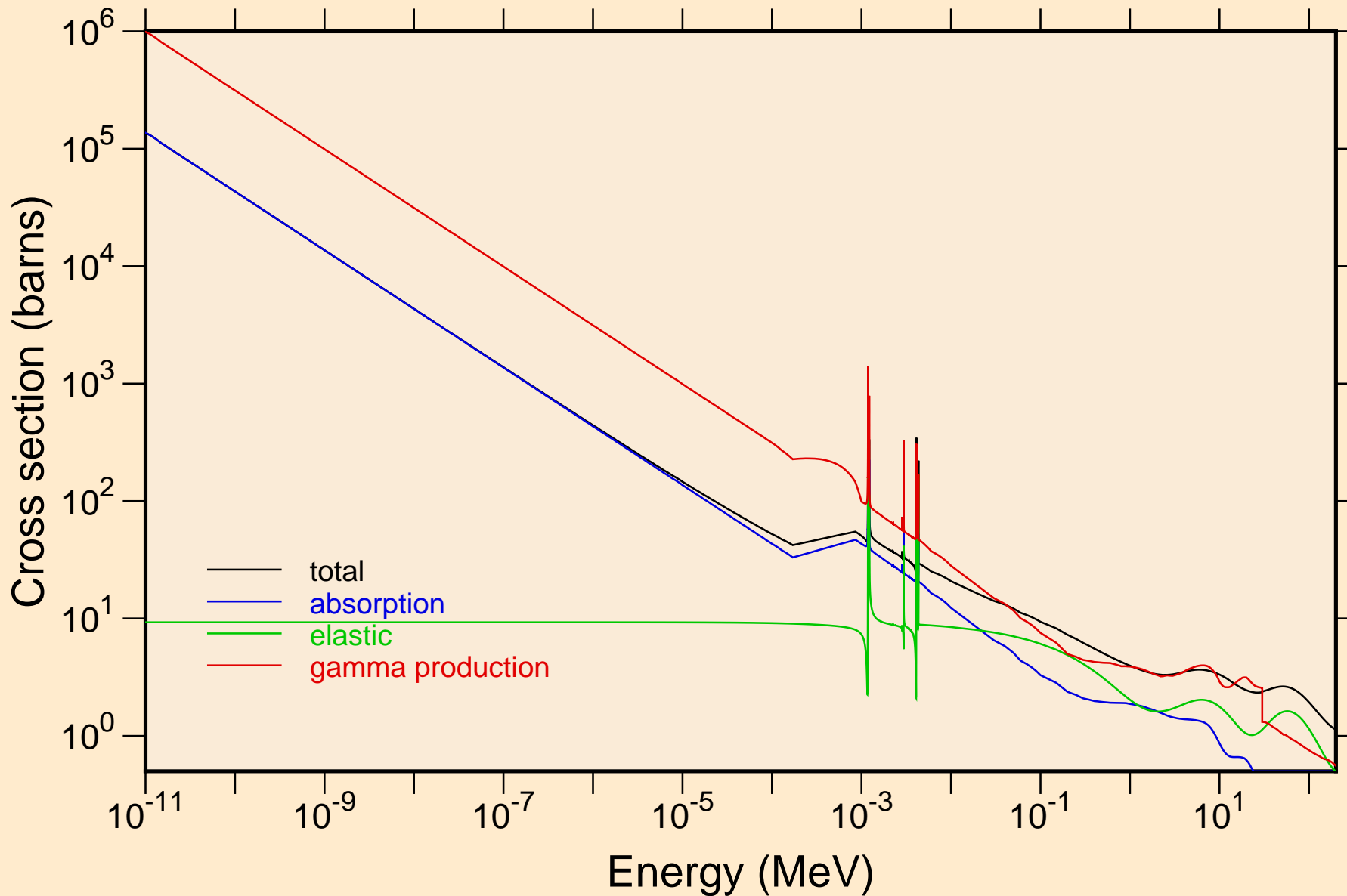
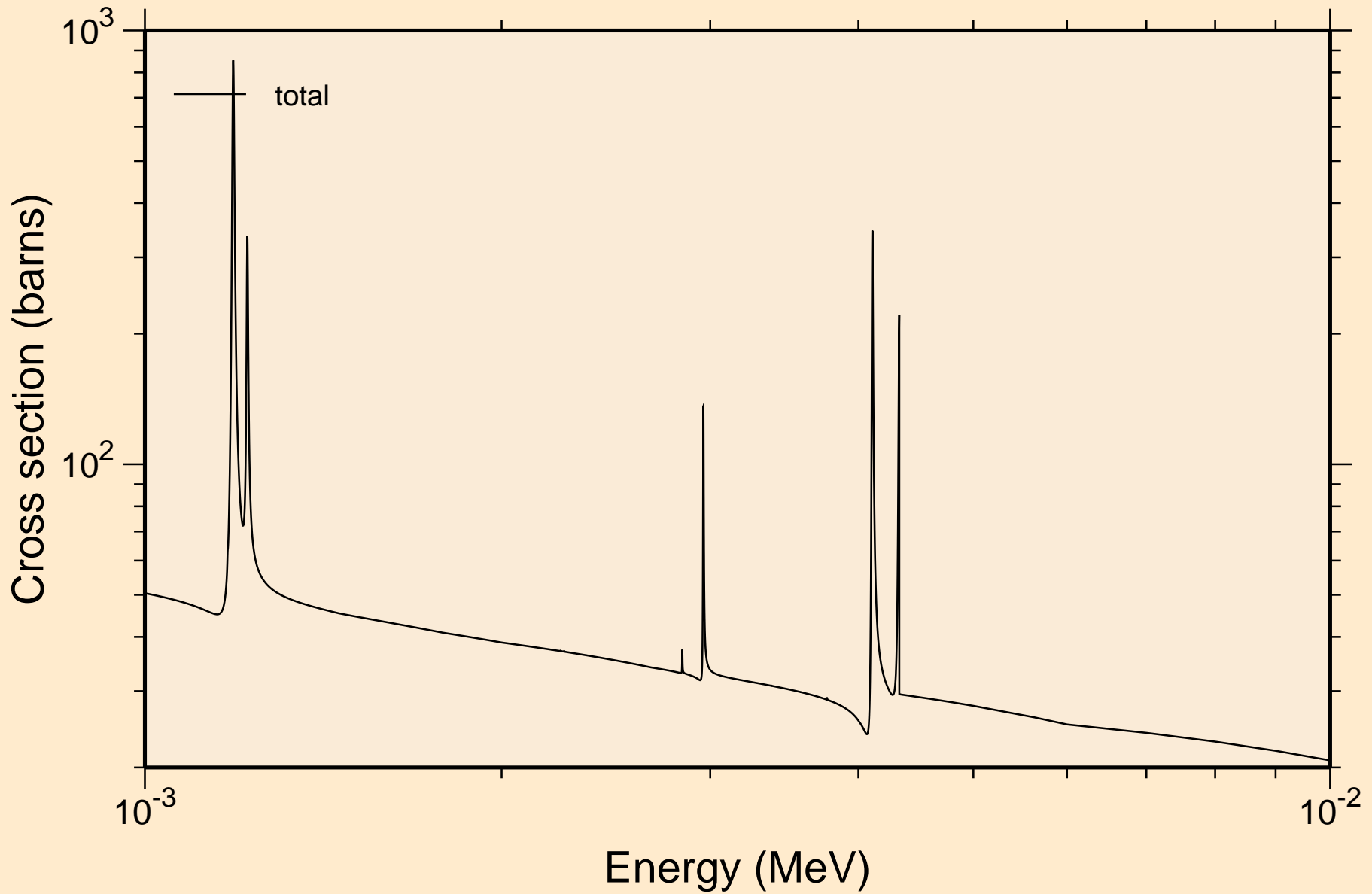


# CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

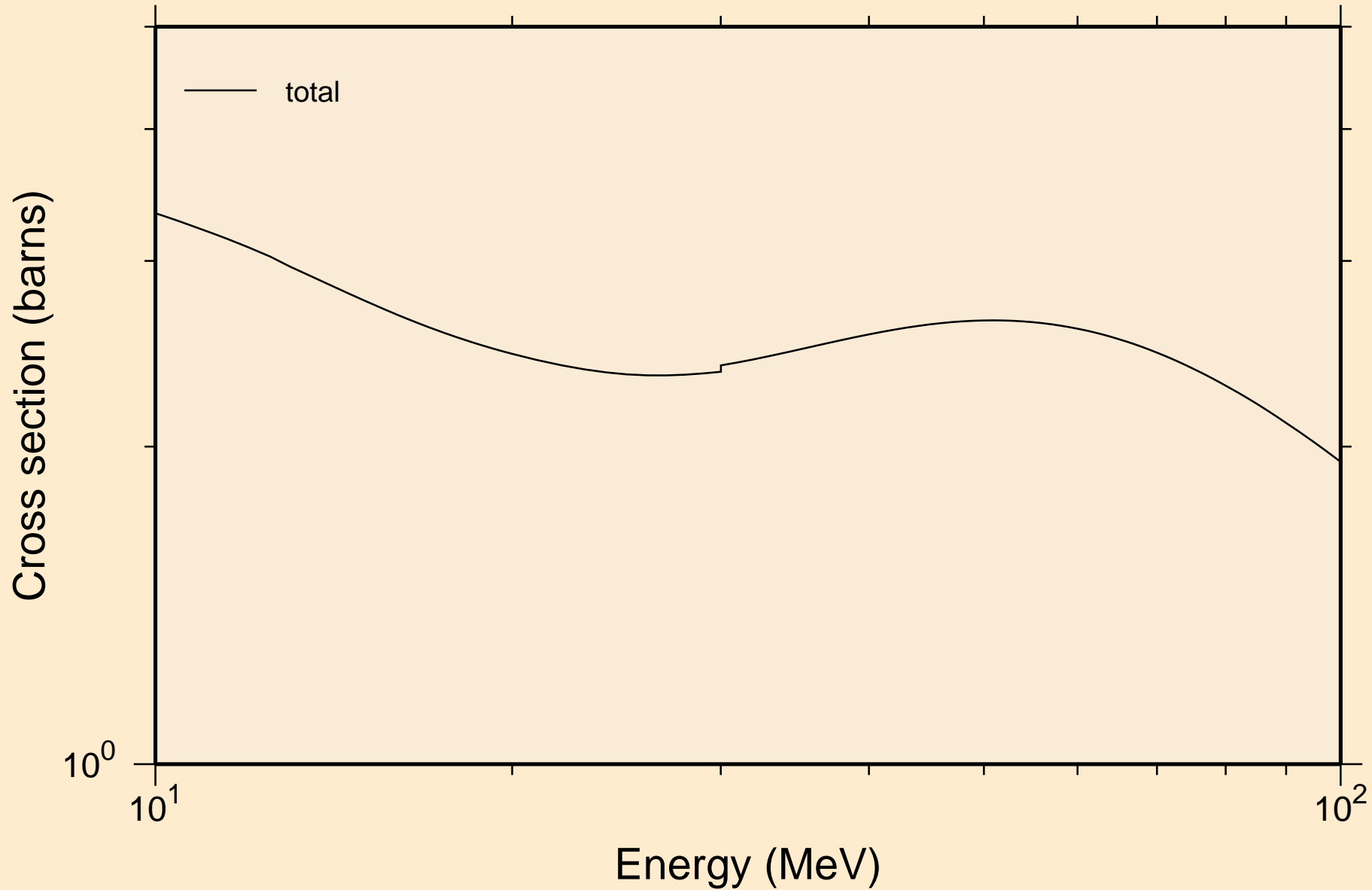
## Principal cross sections



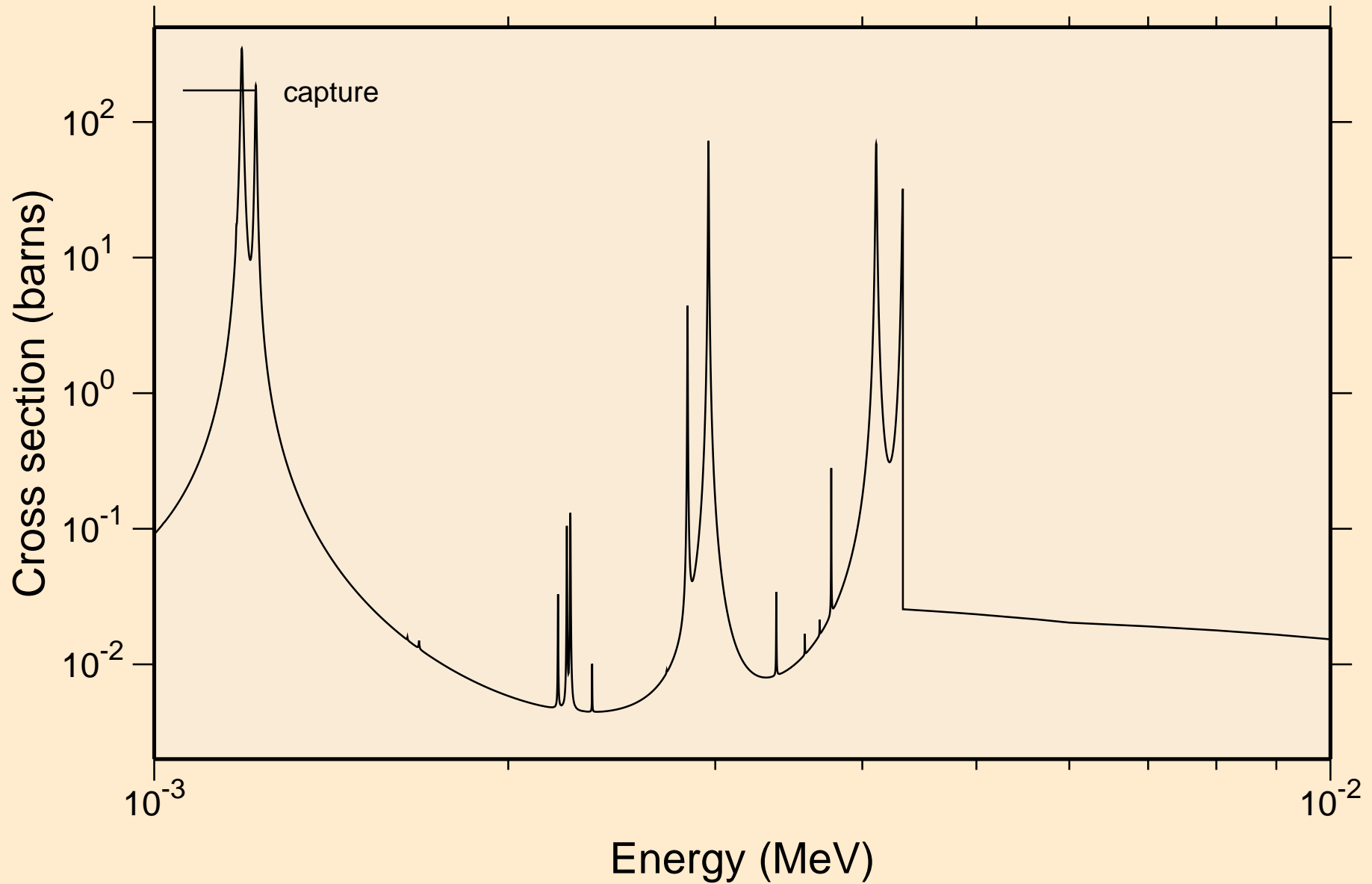
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resonance total cross section



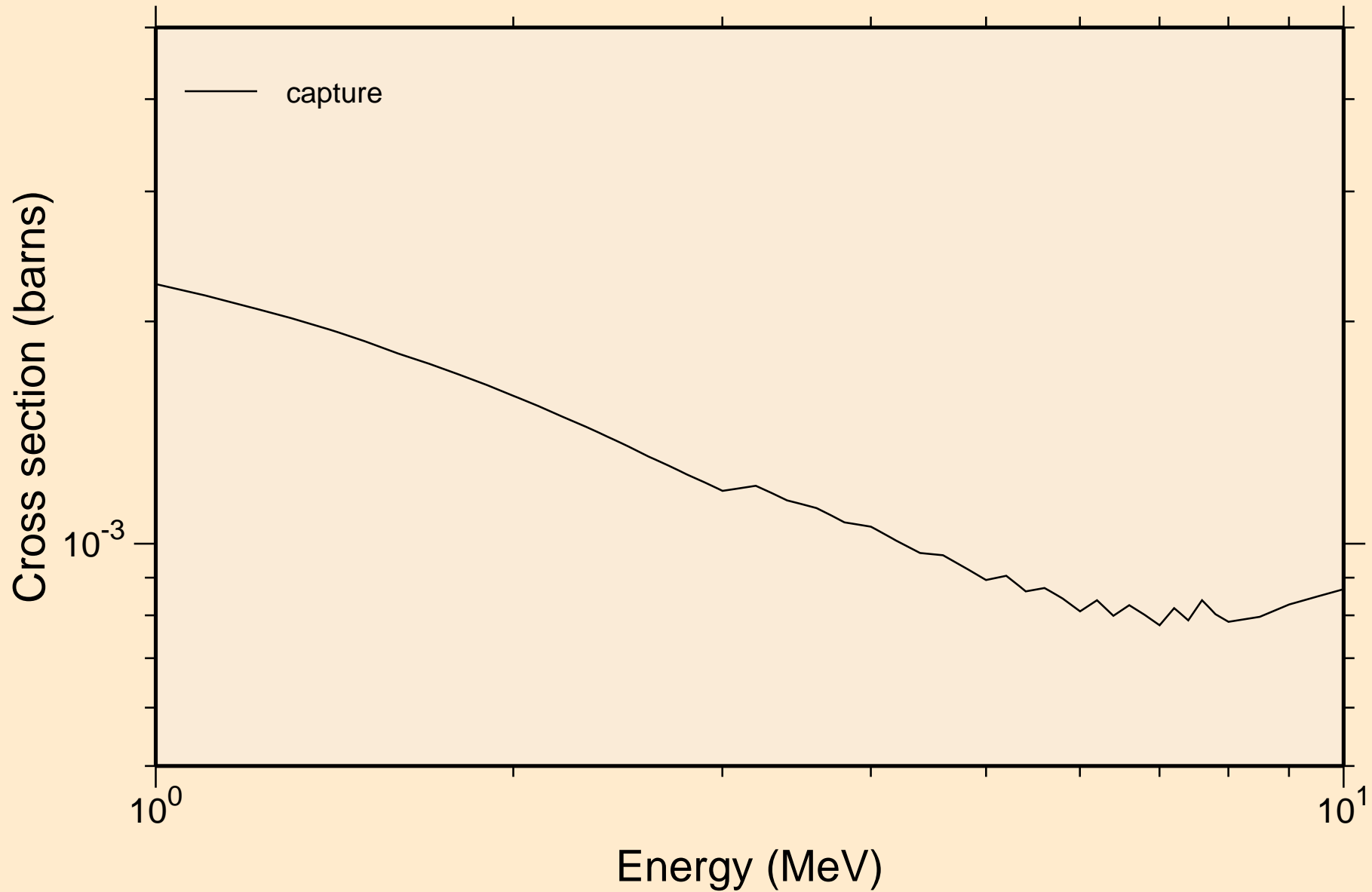
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resonance total cross section



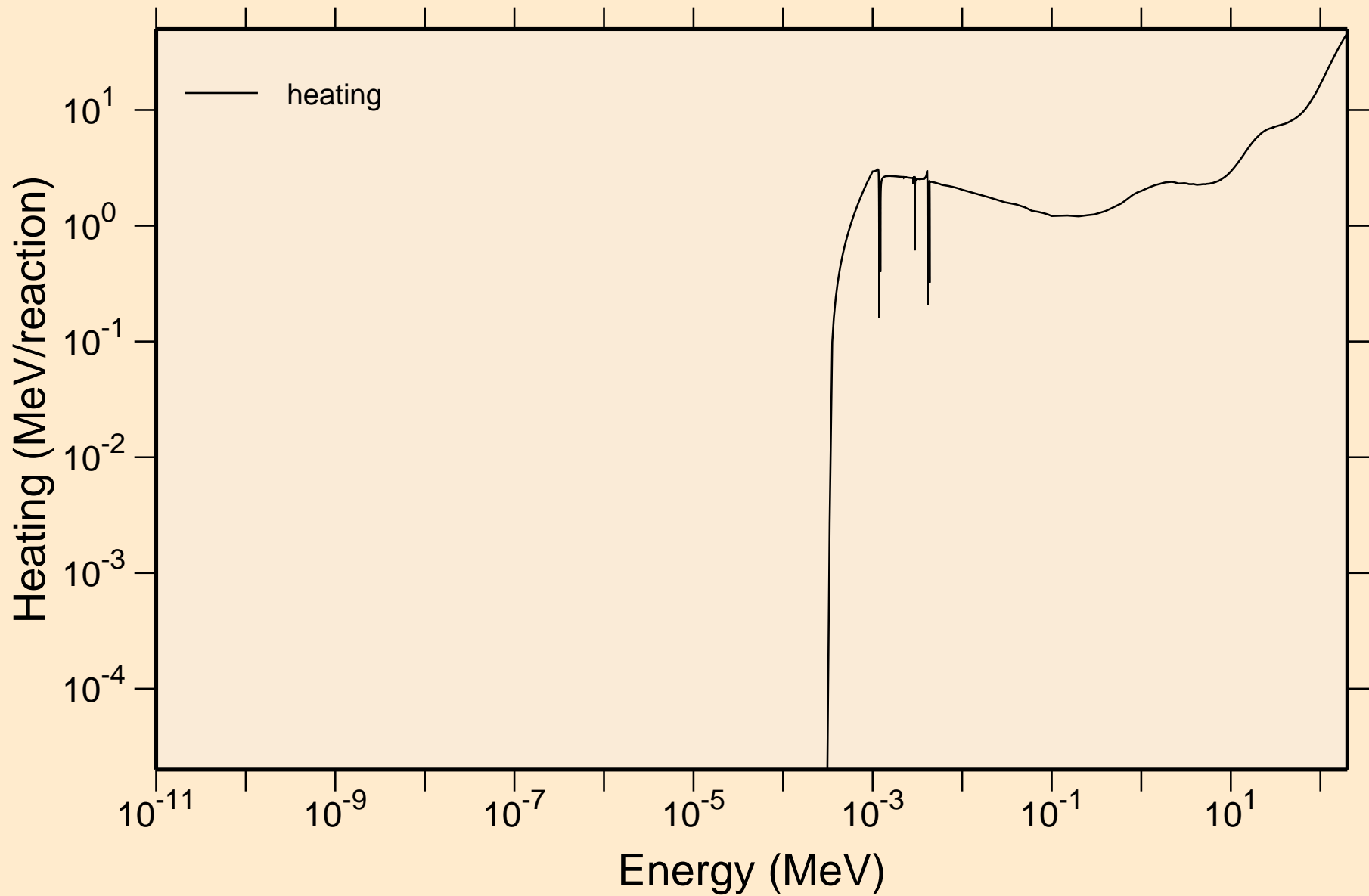
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resonance absorption cross sections



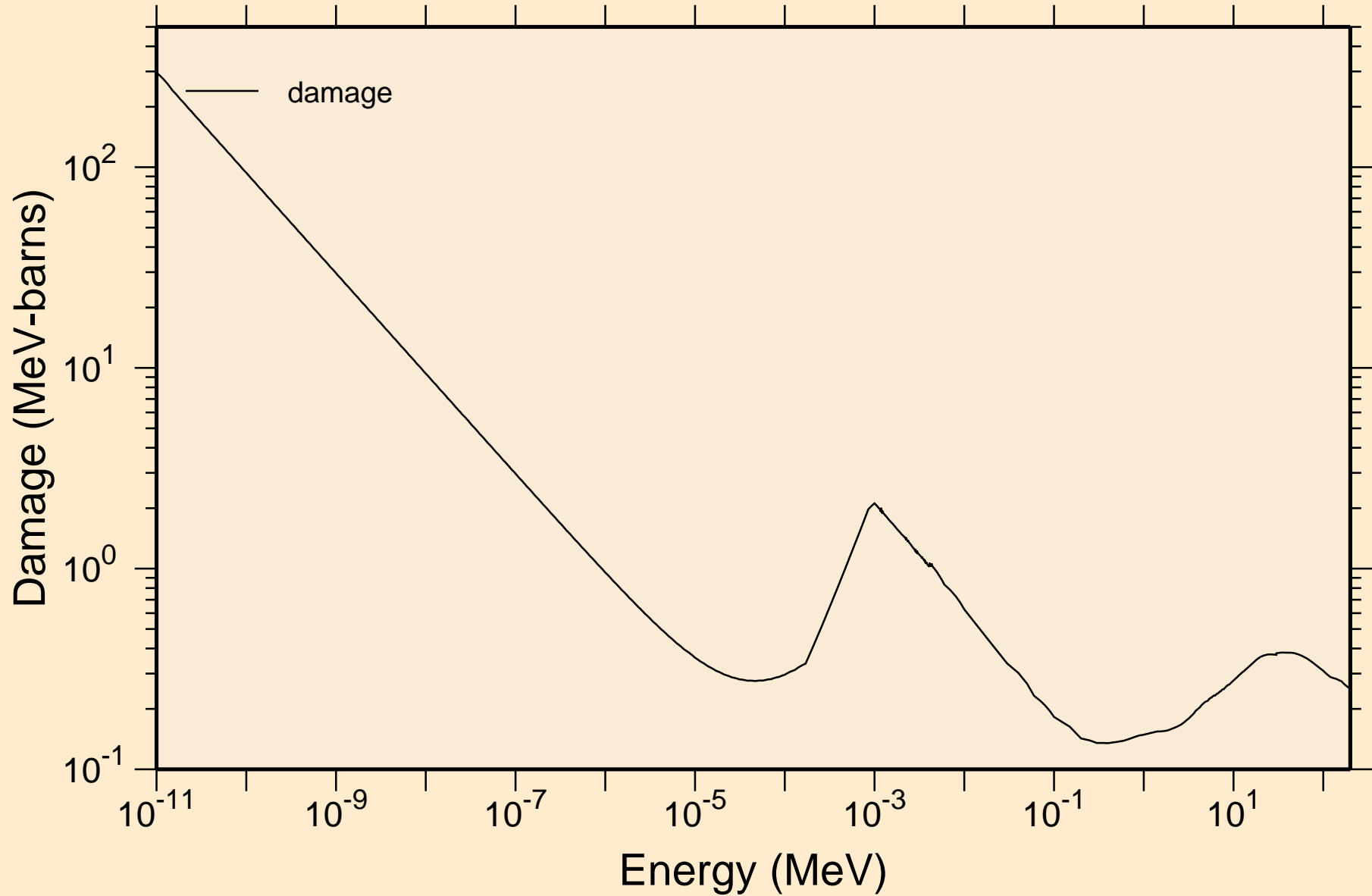
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Heating

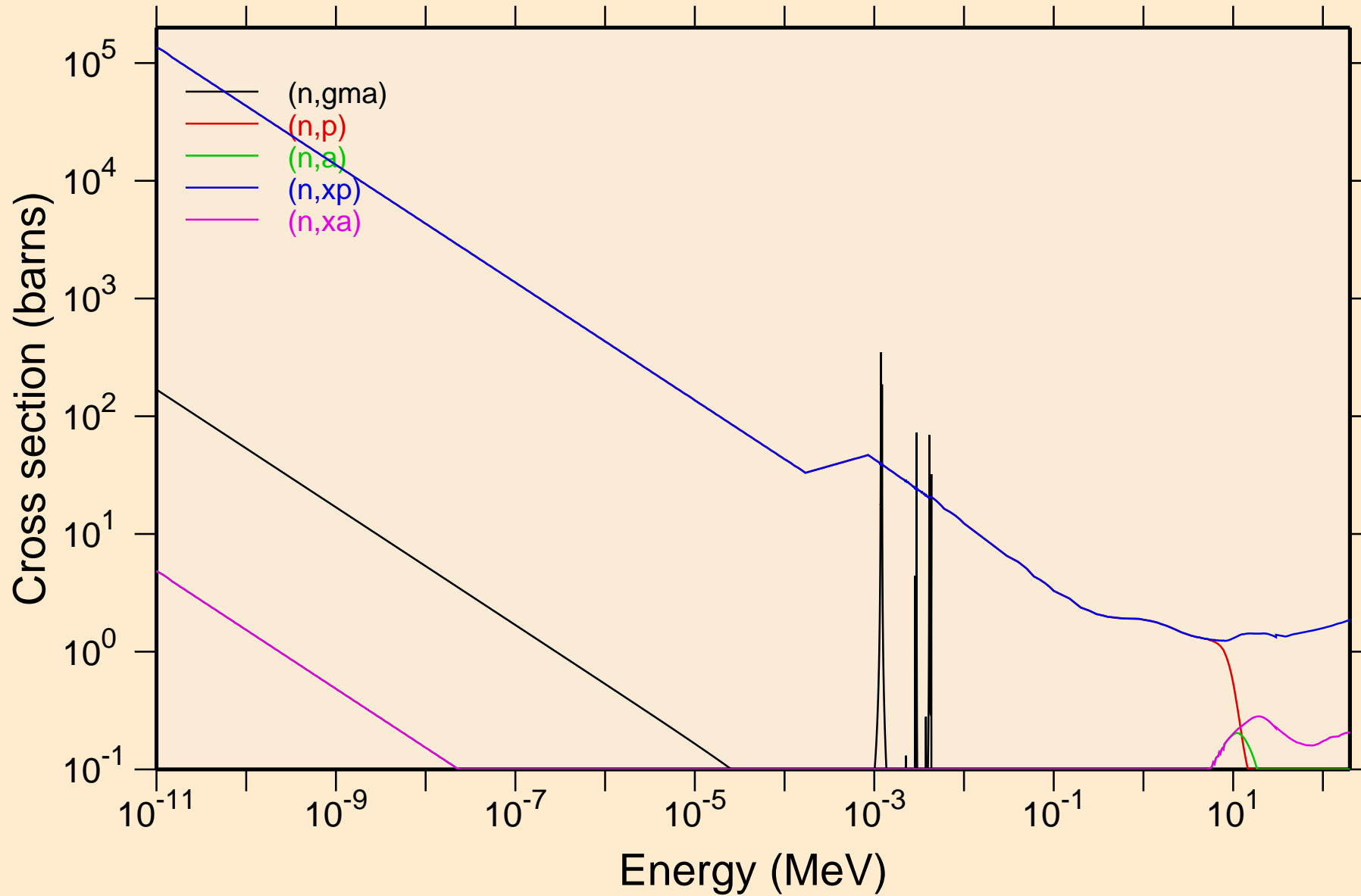


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage



# CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

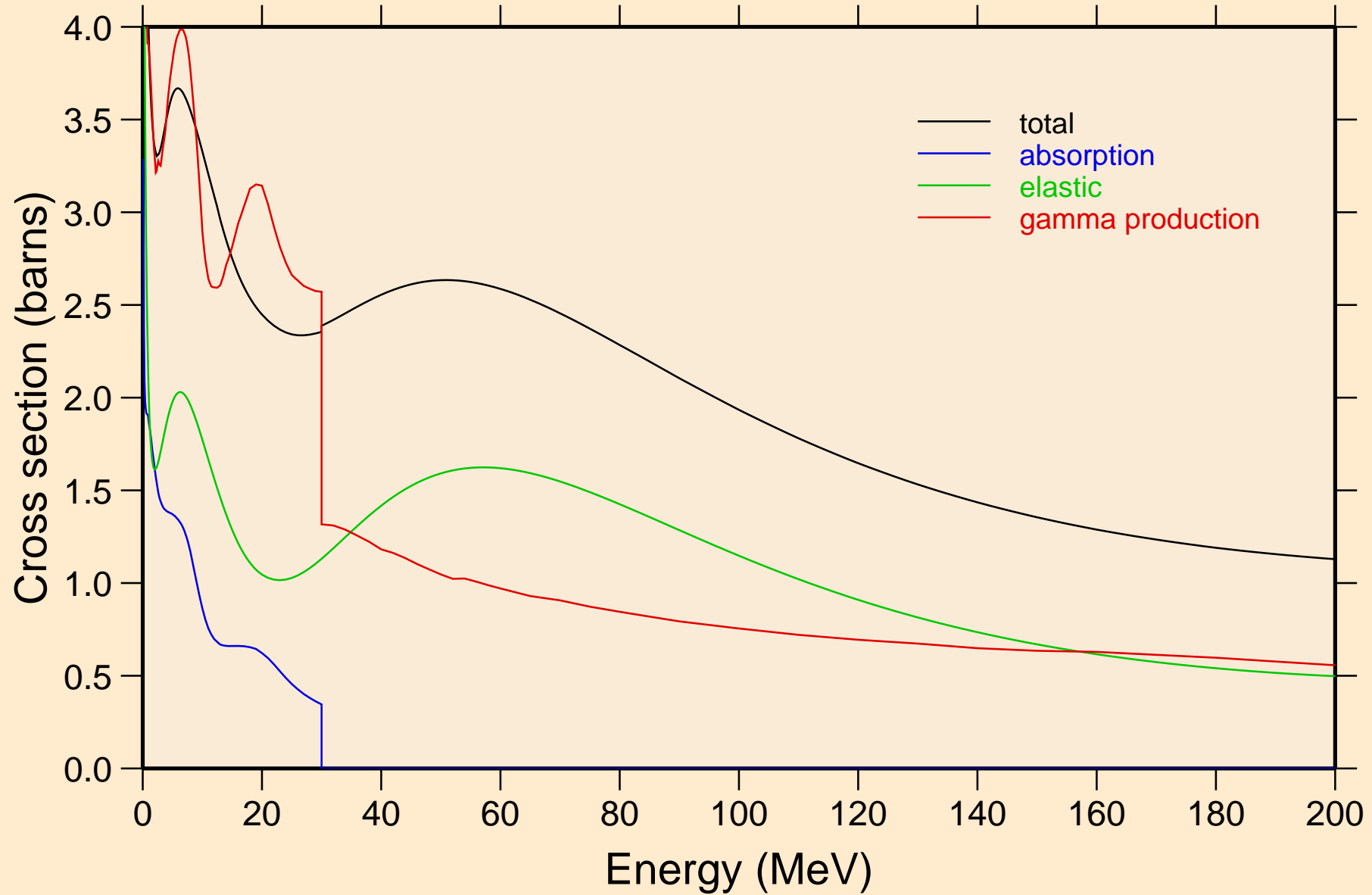
## Non-threshold reactions





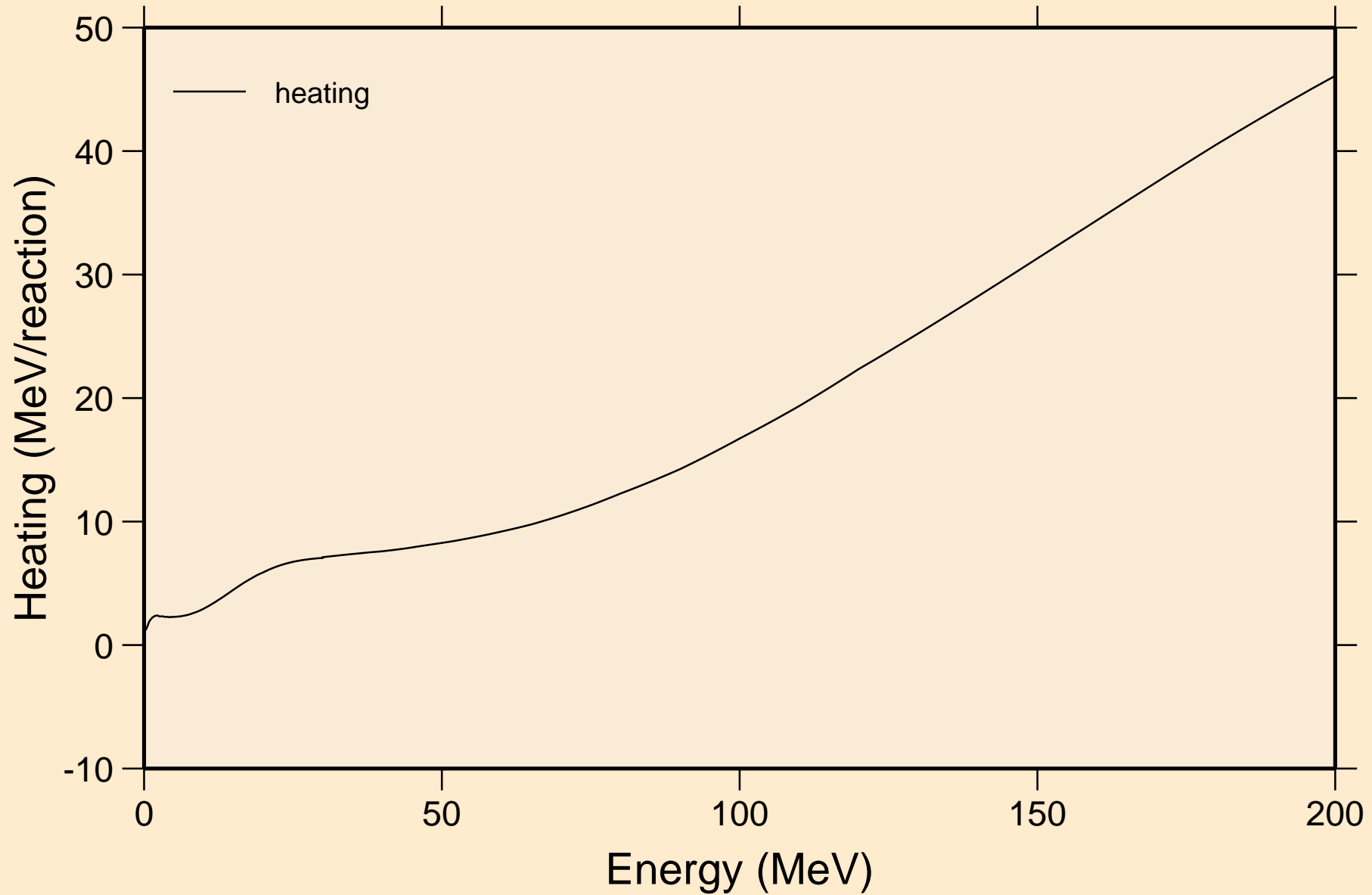
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## Principal cross sections

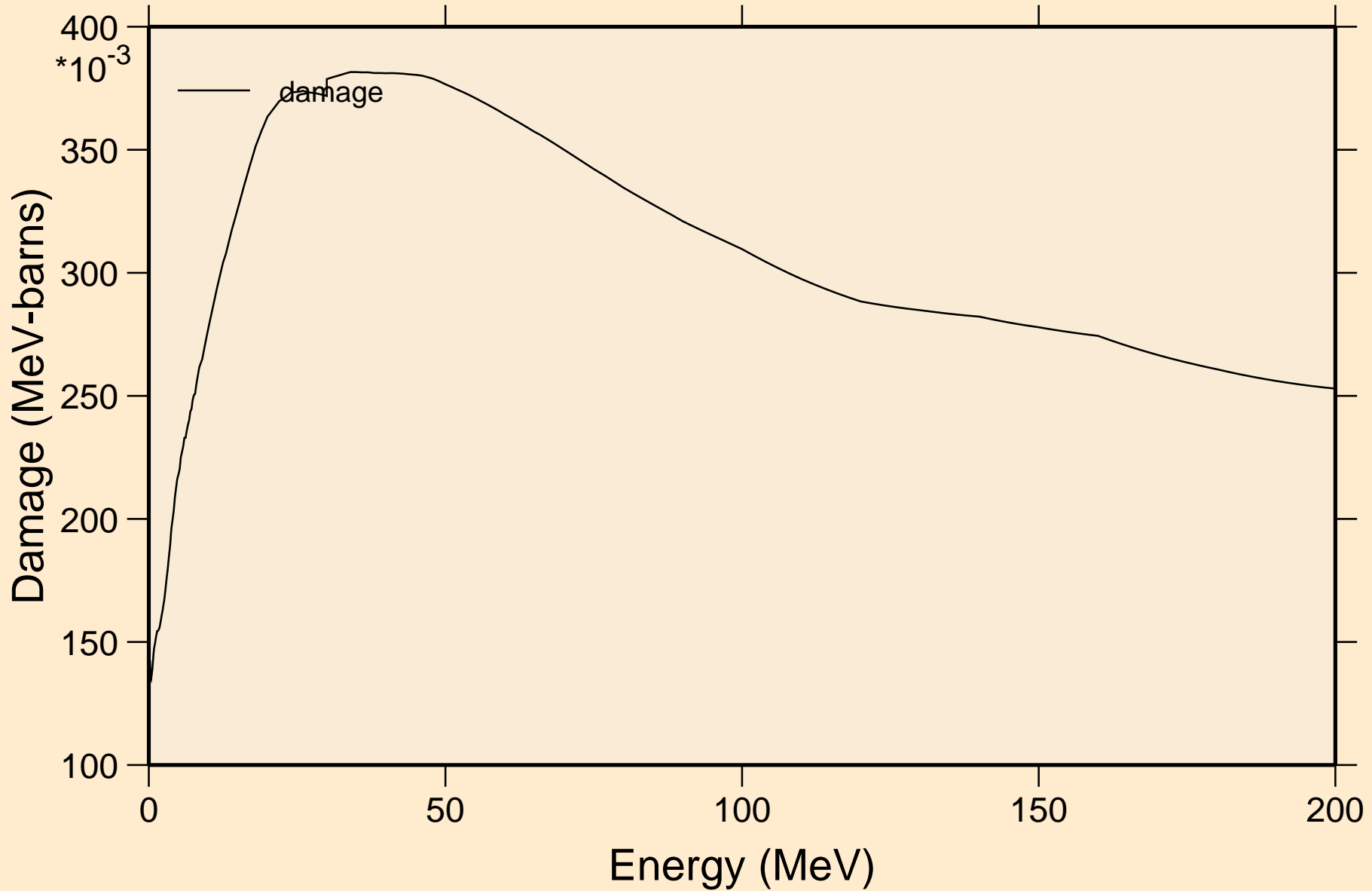


# CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

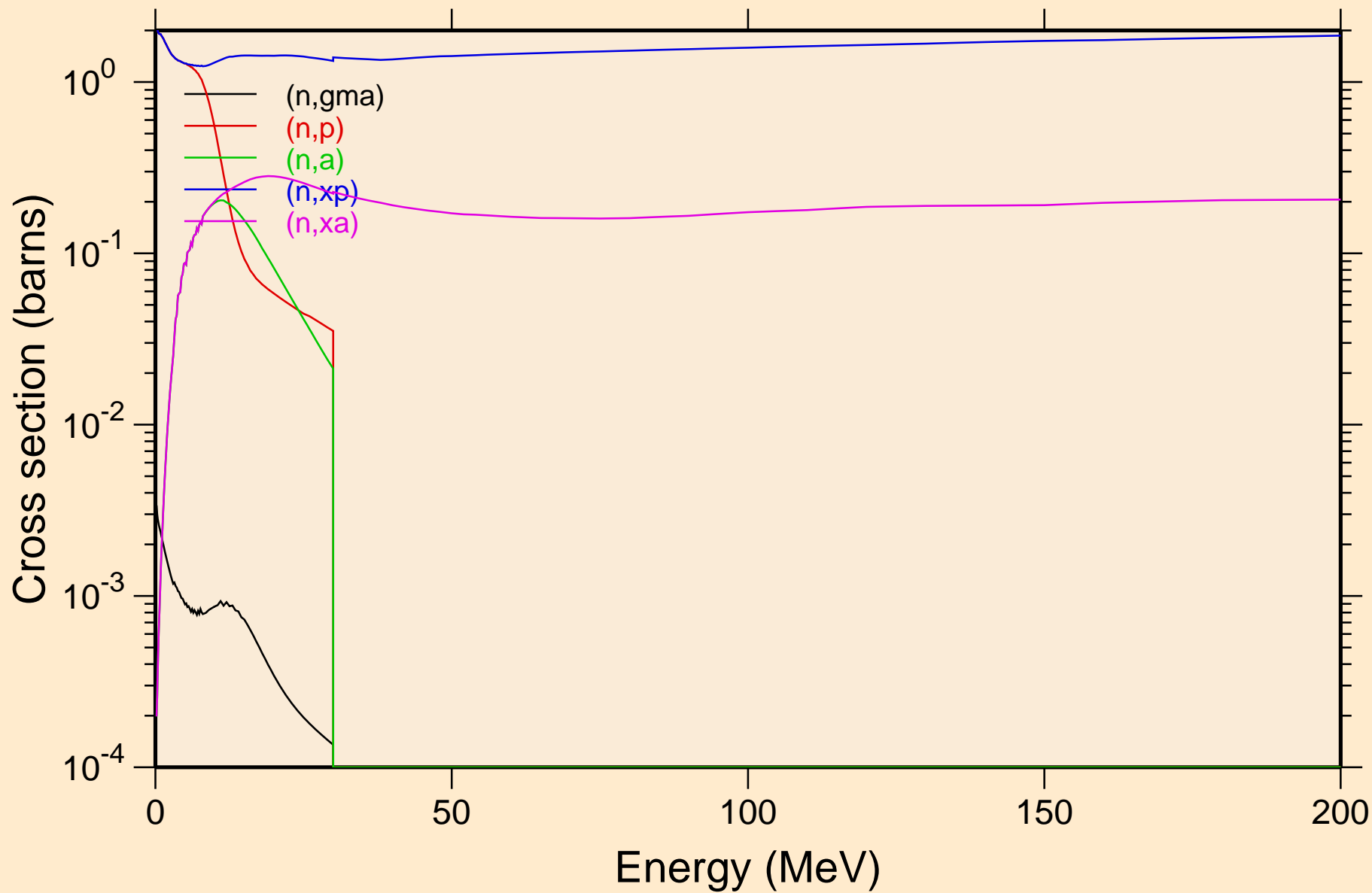
## Heating



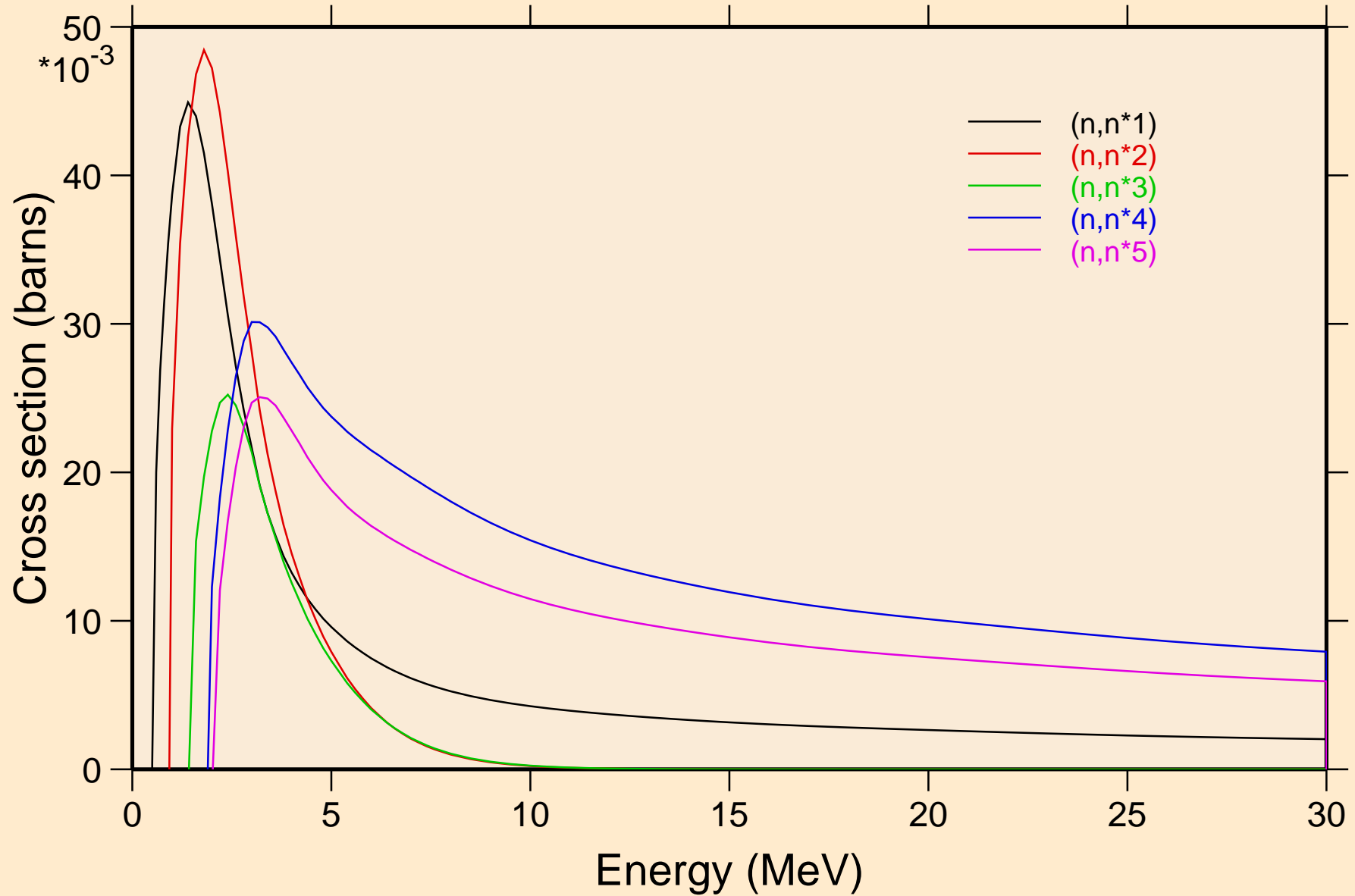
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Damage



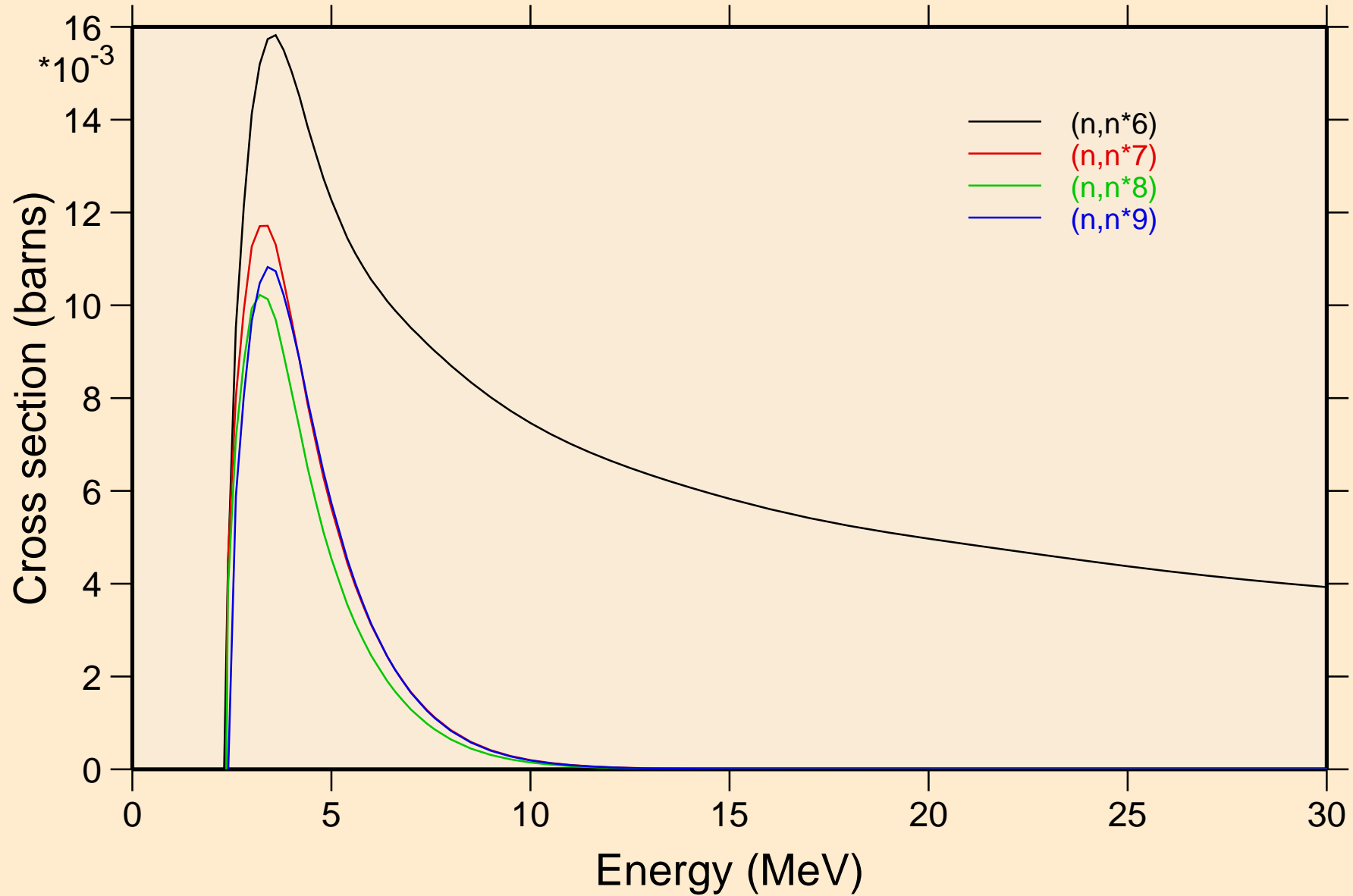
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Non-threshold reactions



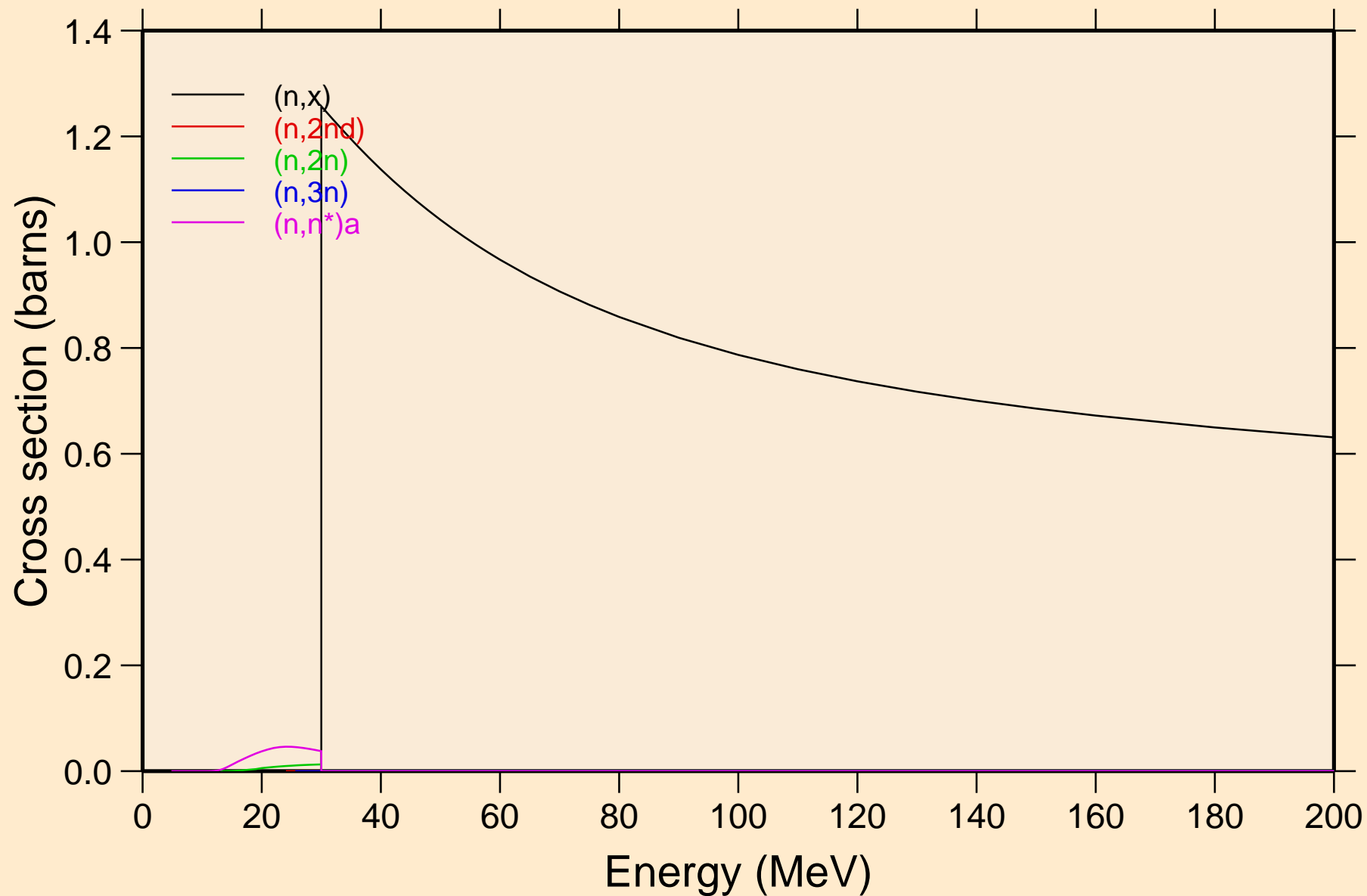
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Inelastic levels



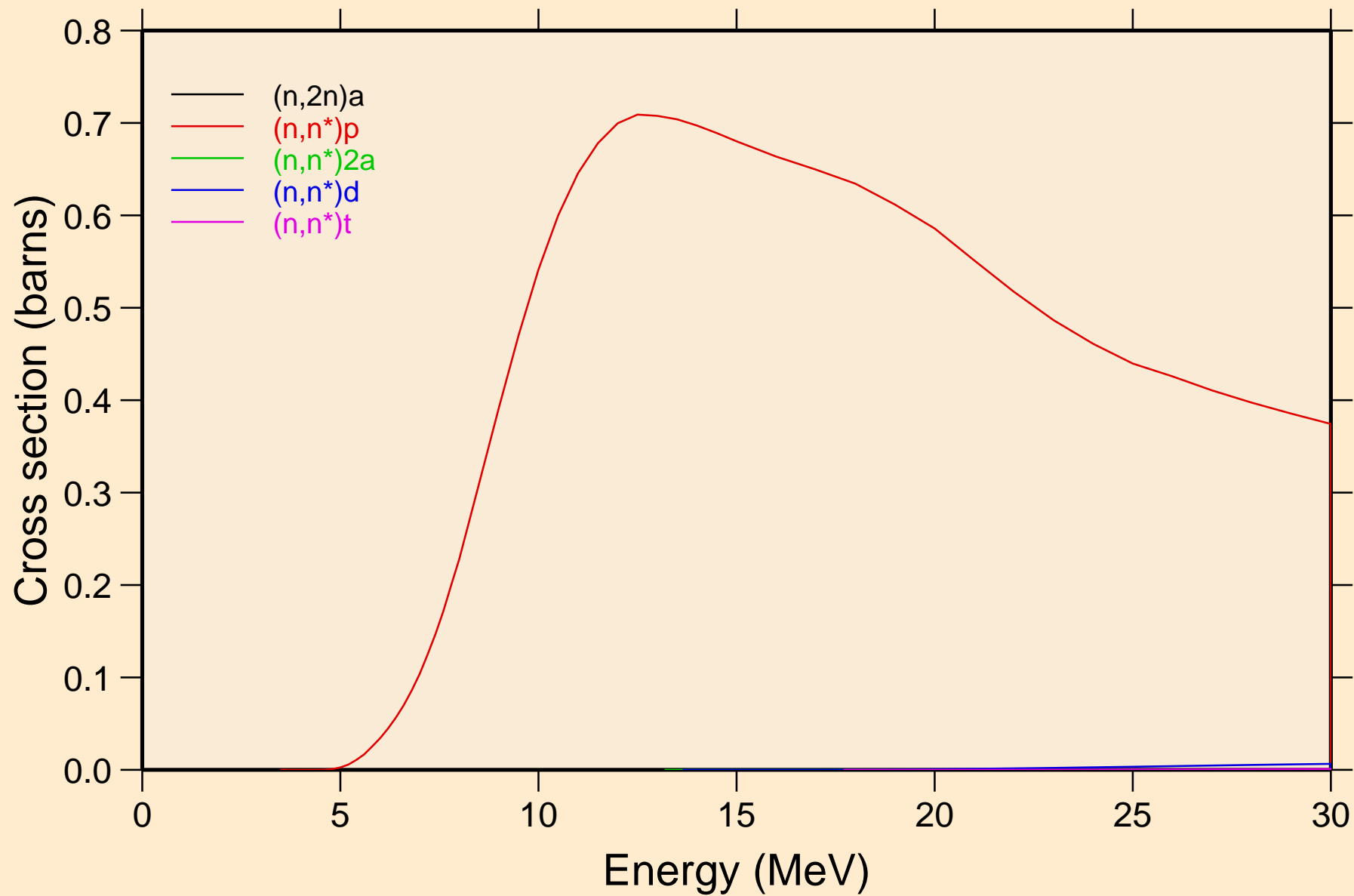
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



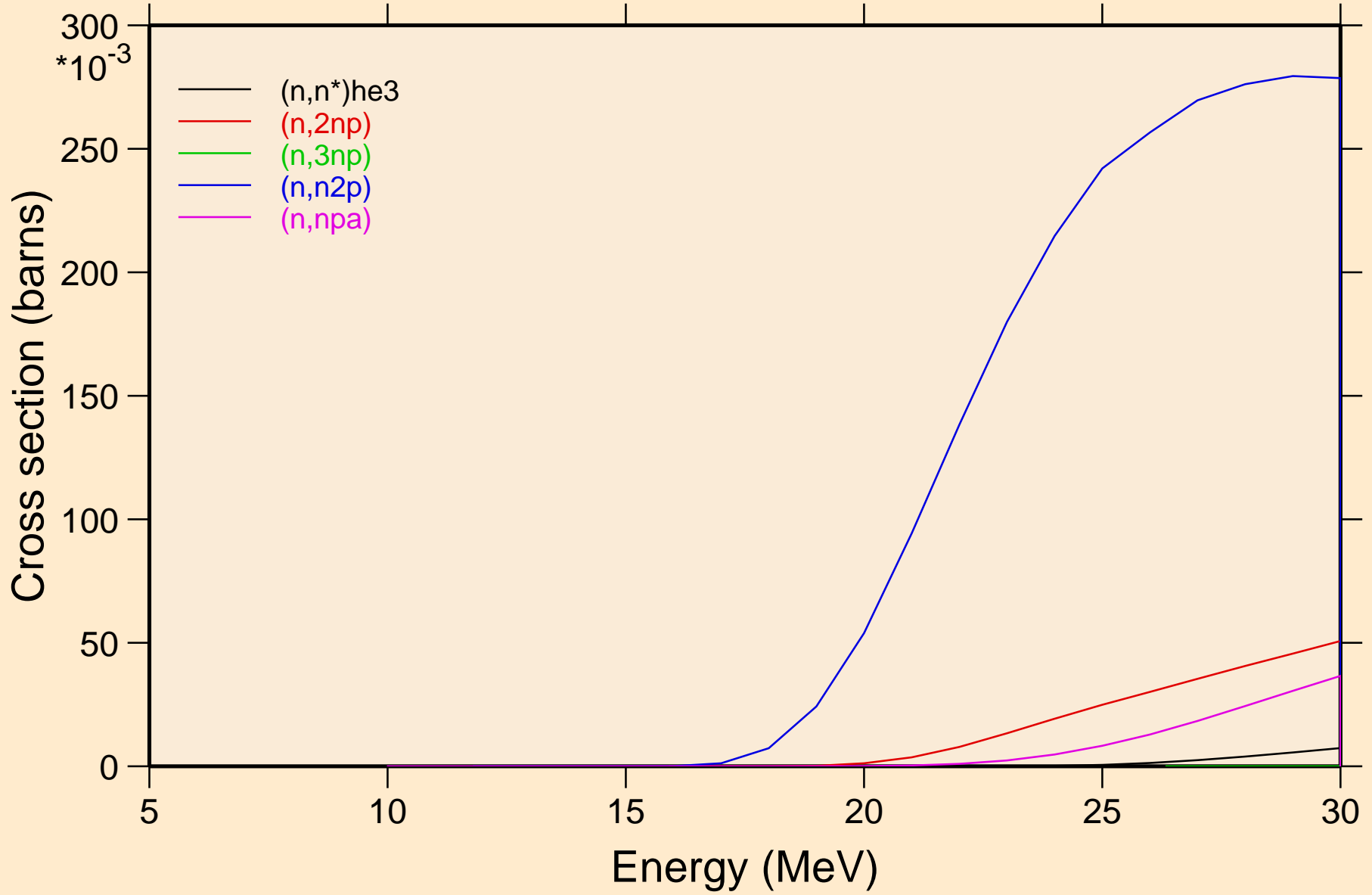
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Threshold reactions





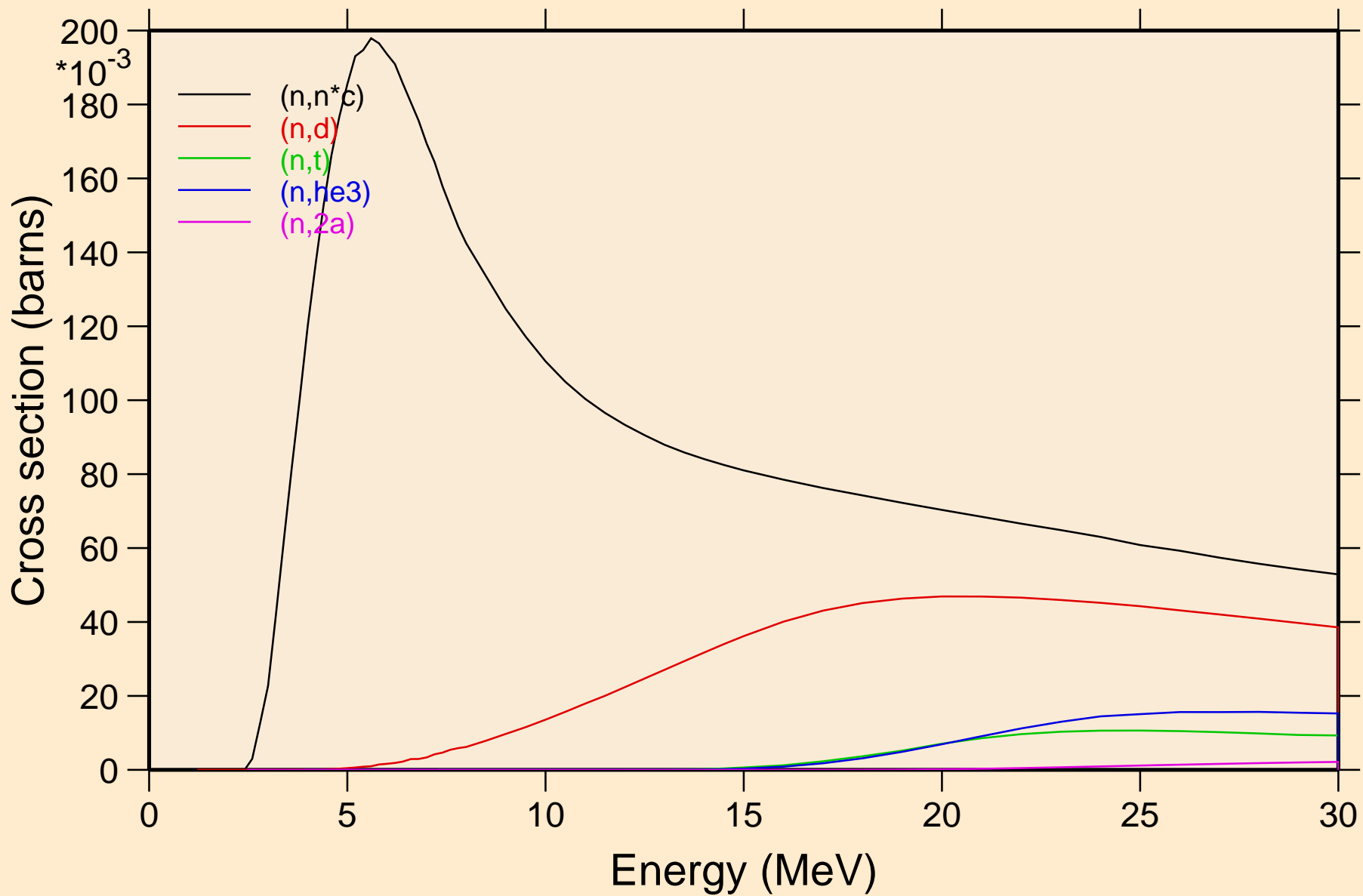
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## Threshold reactions



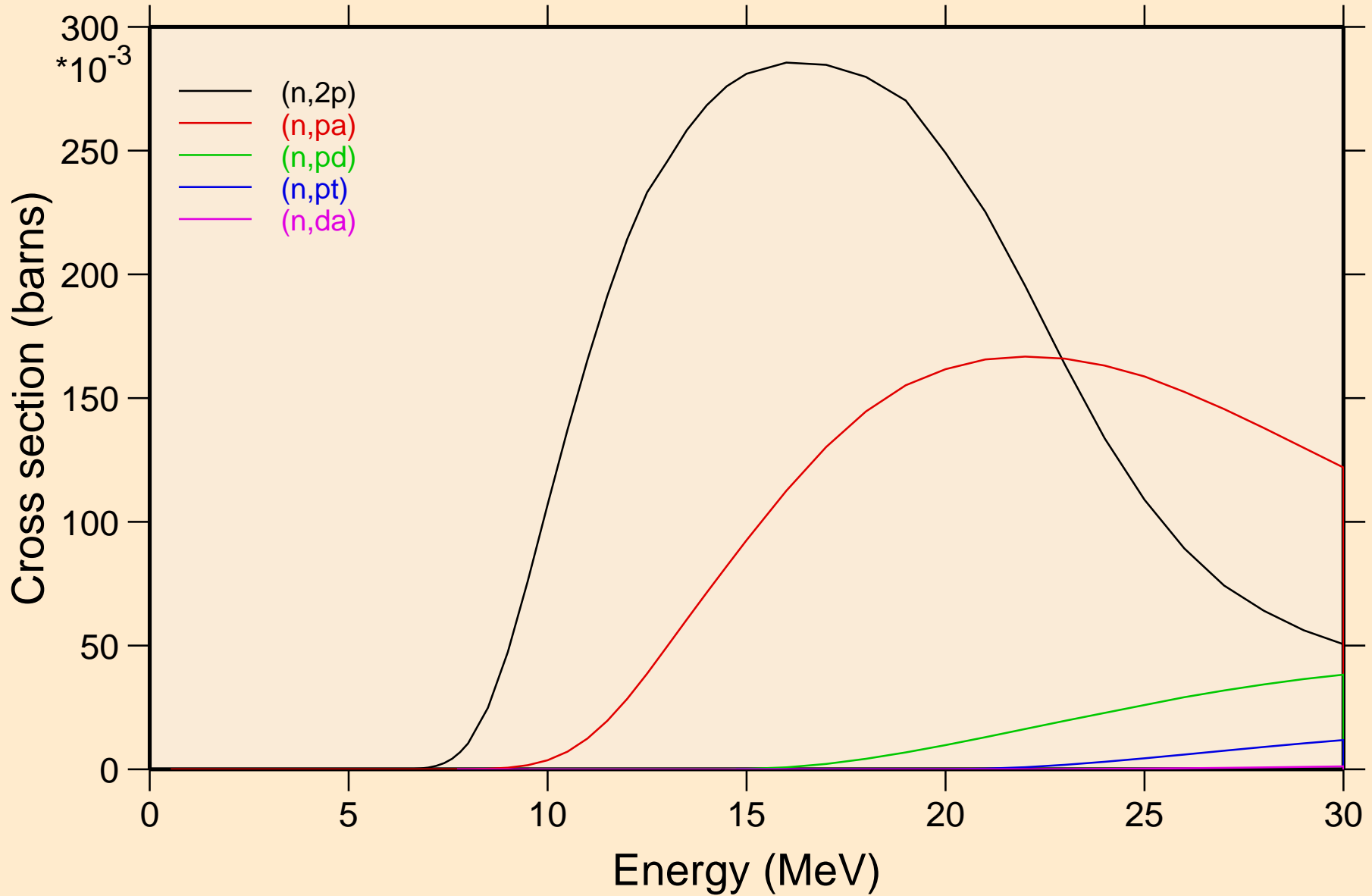
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## Threshold reactions



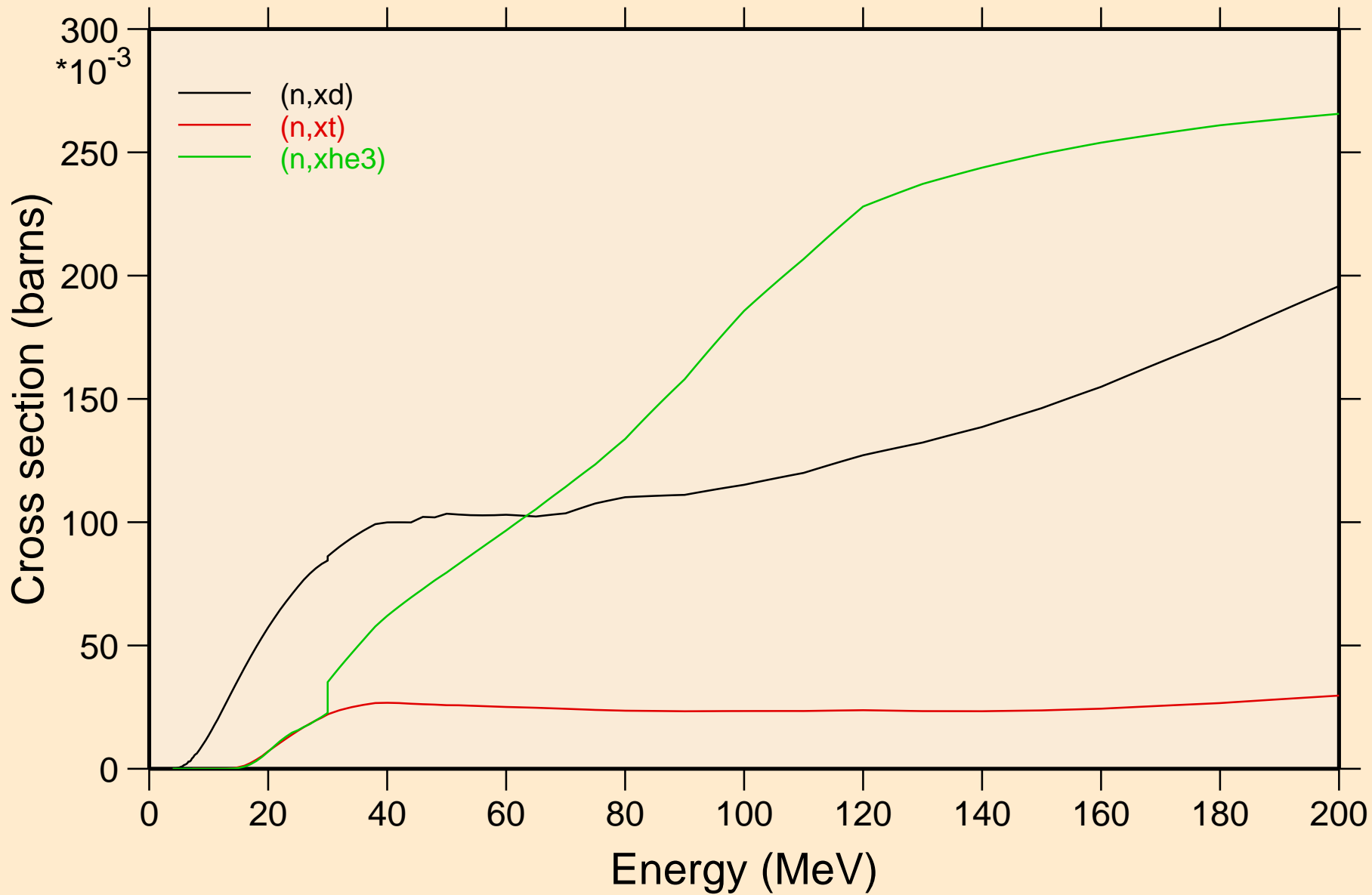
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## Threshold reactions

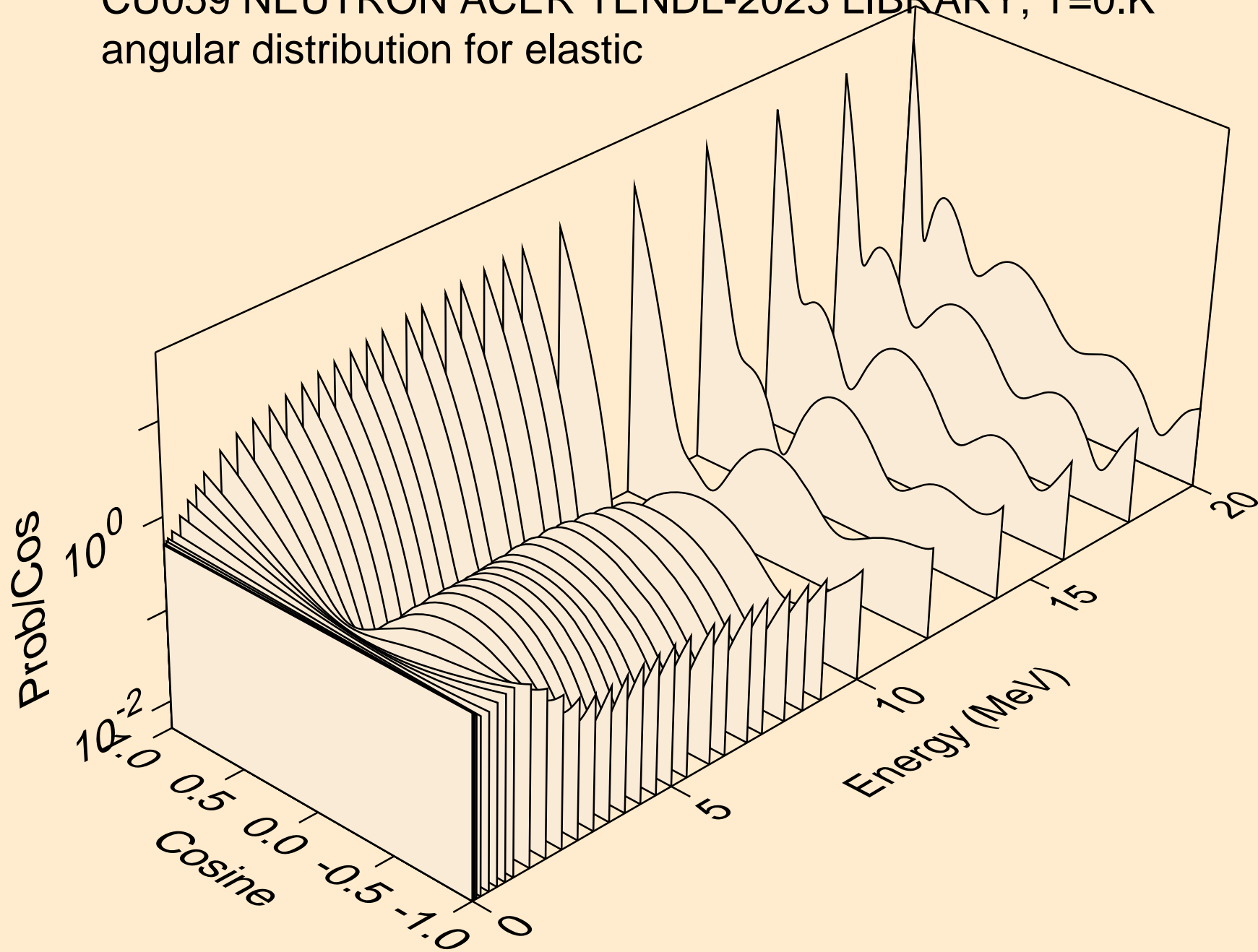


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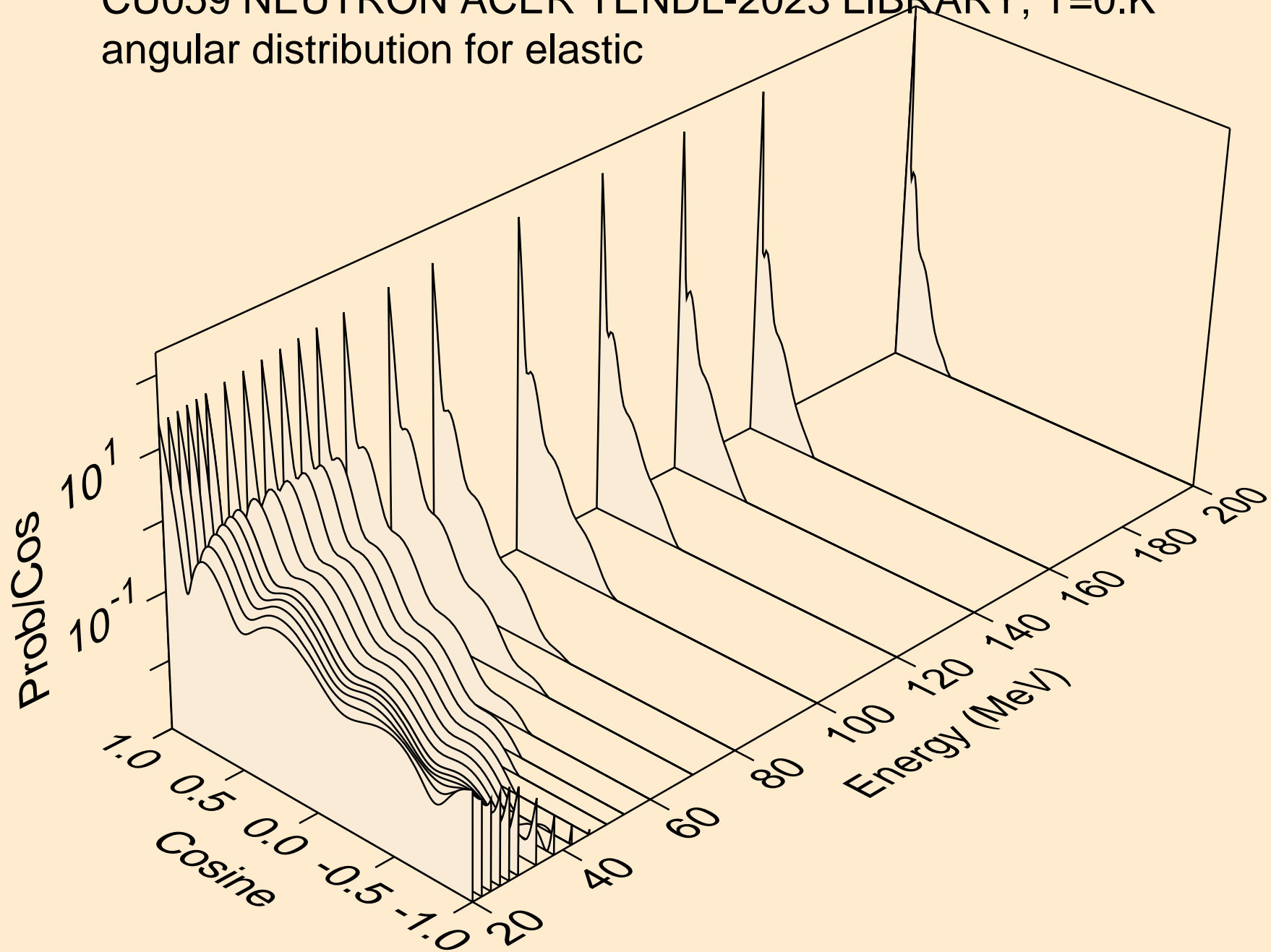
## Threshold reactions



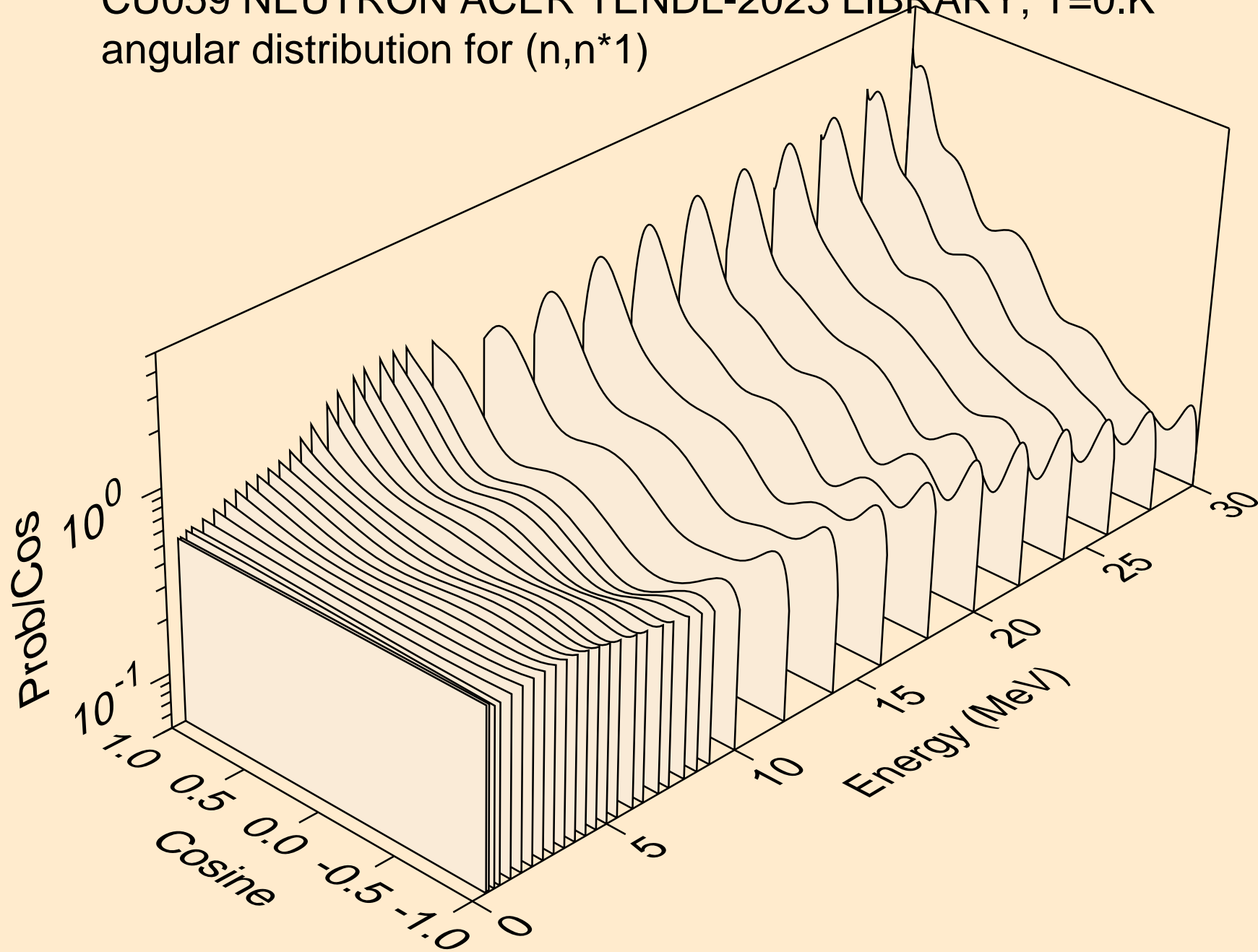
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



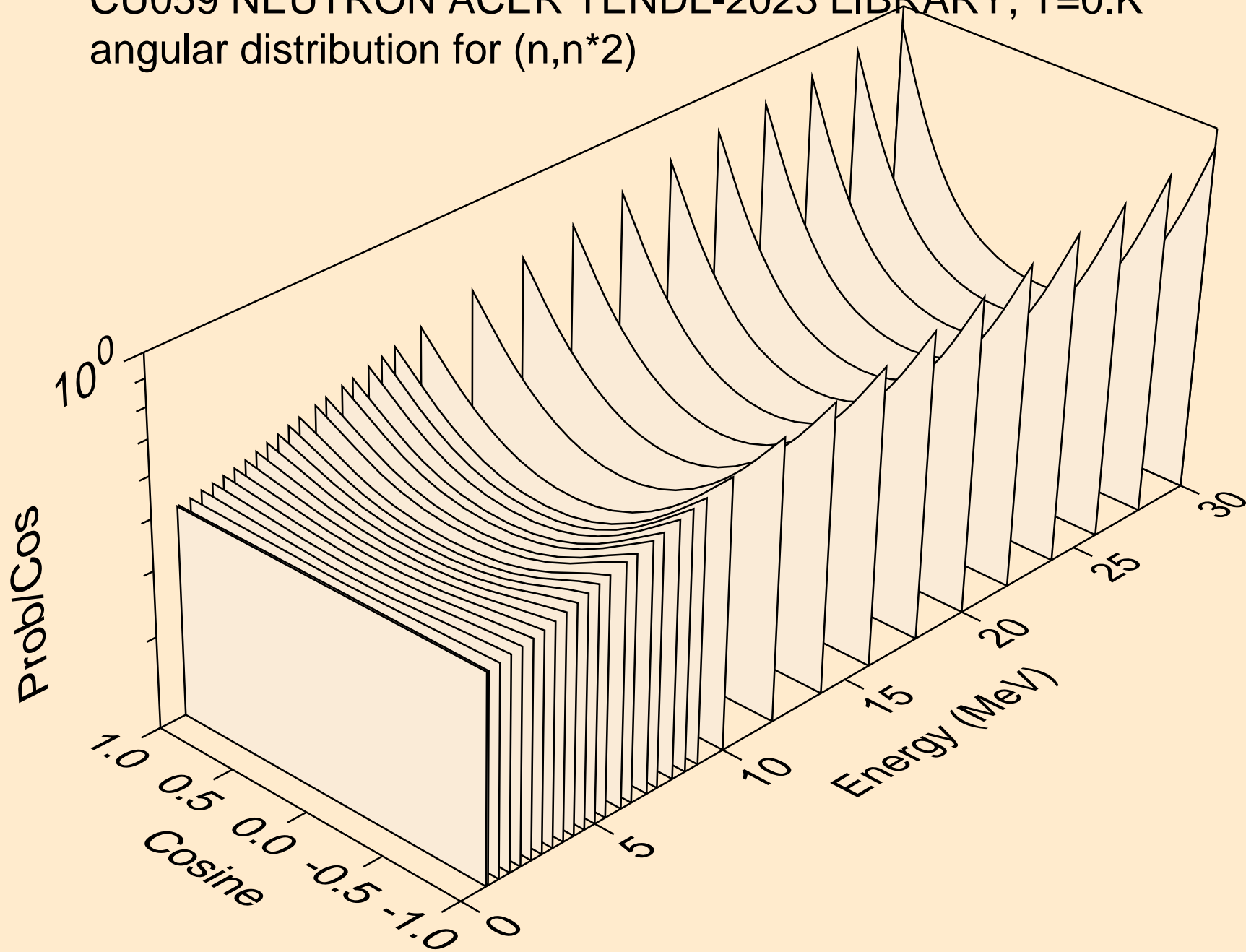
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

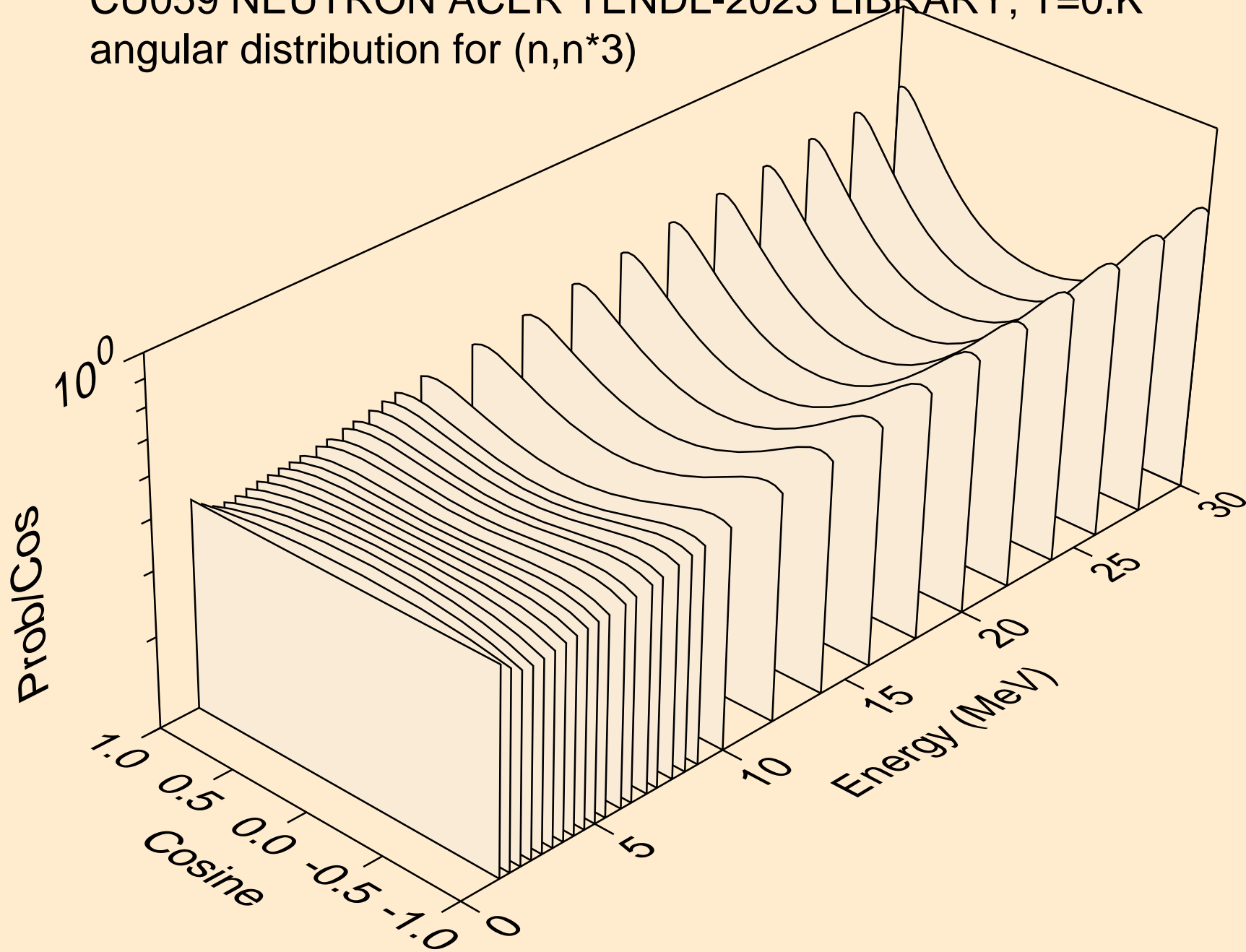


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

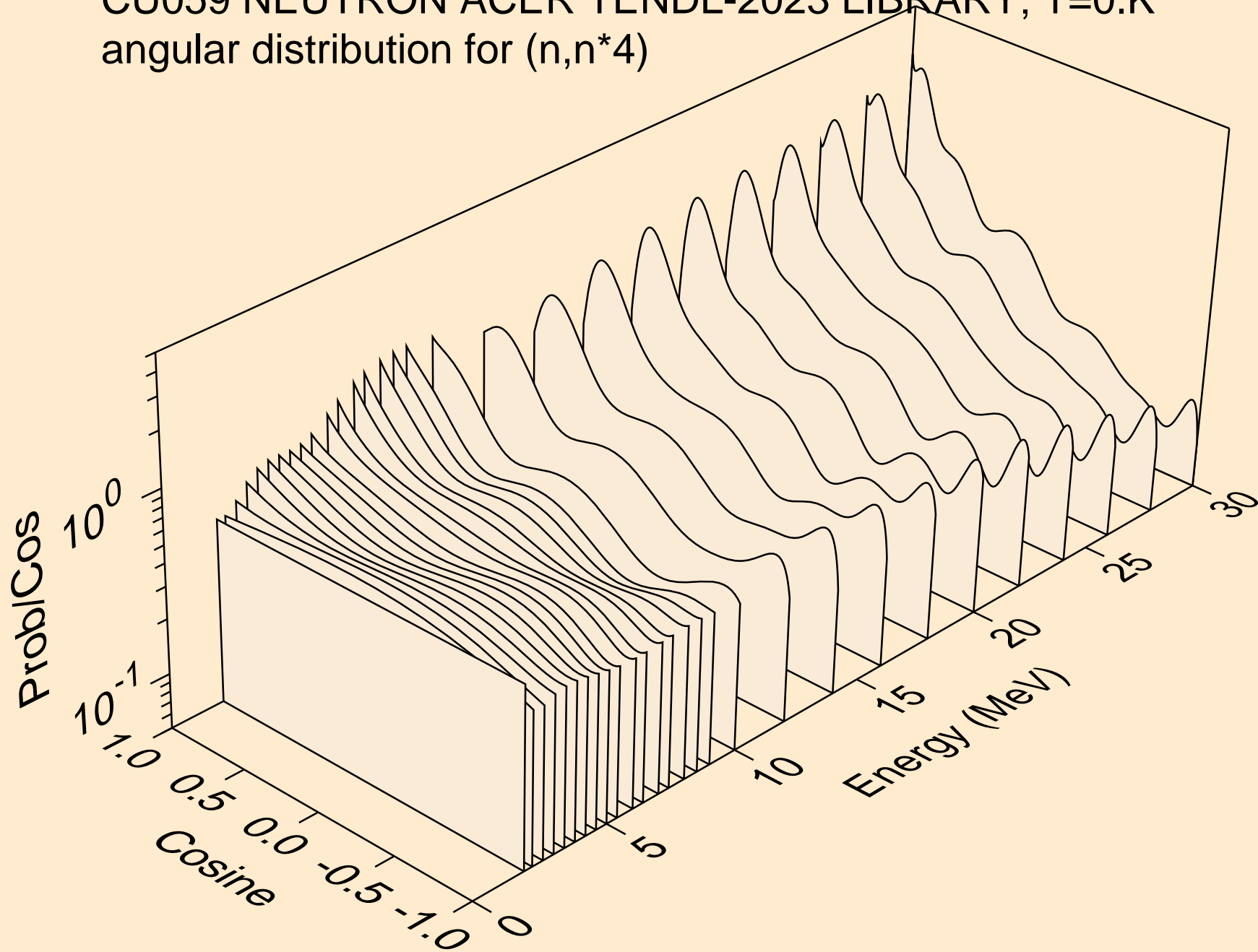




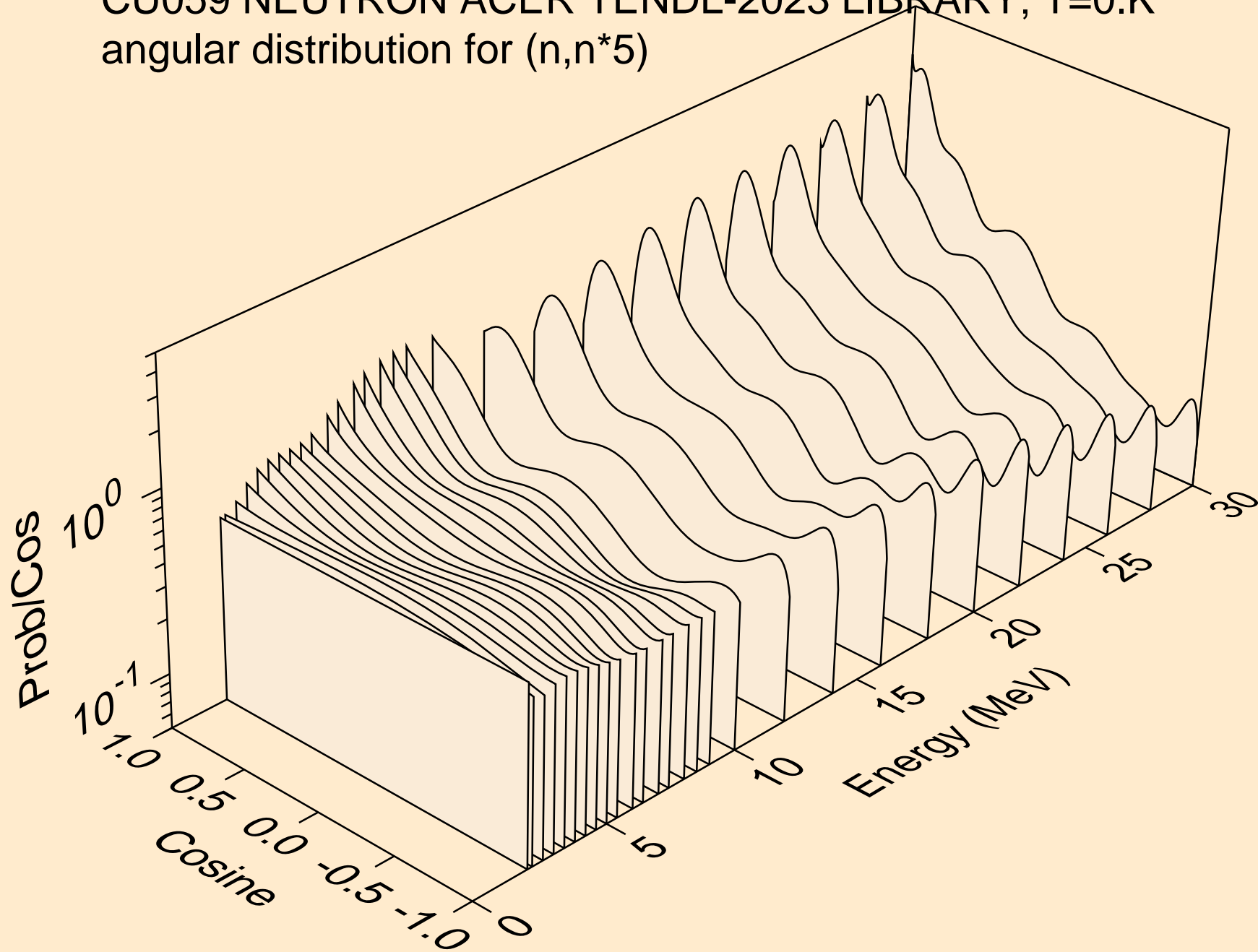
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angular distribution for (n,n\*3)



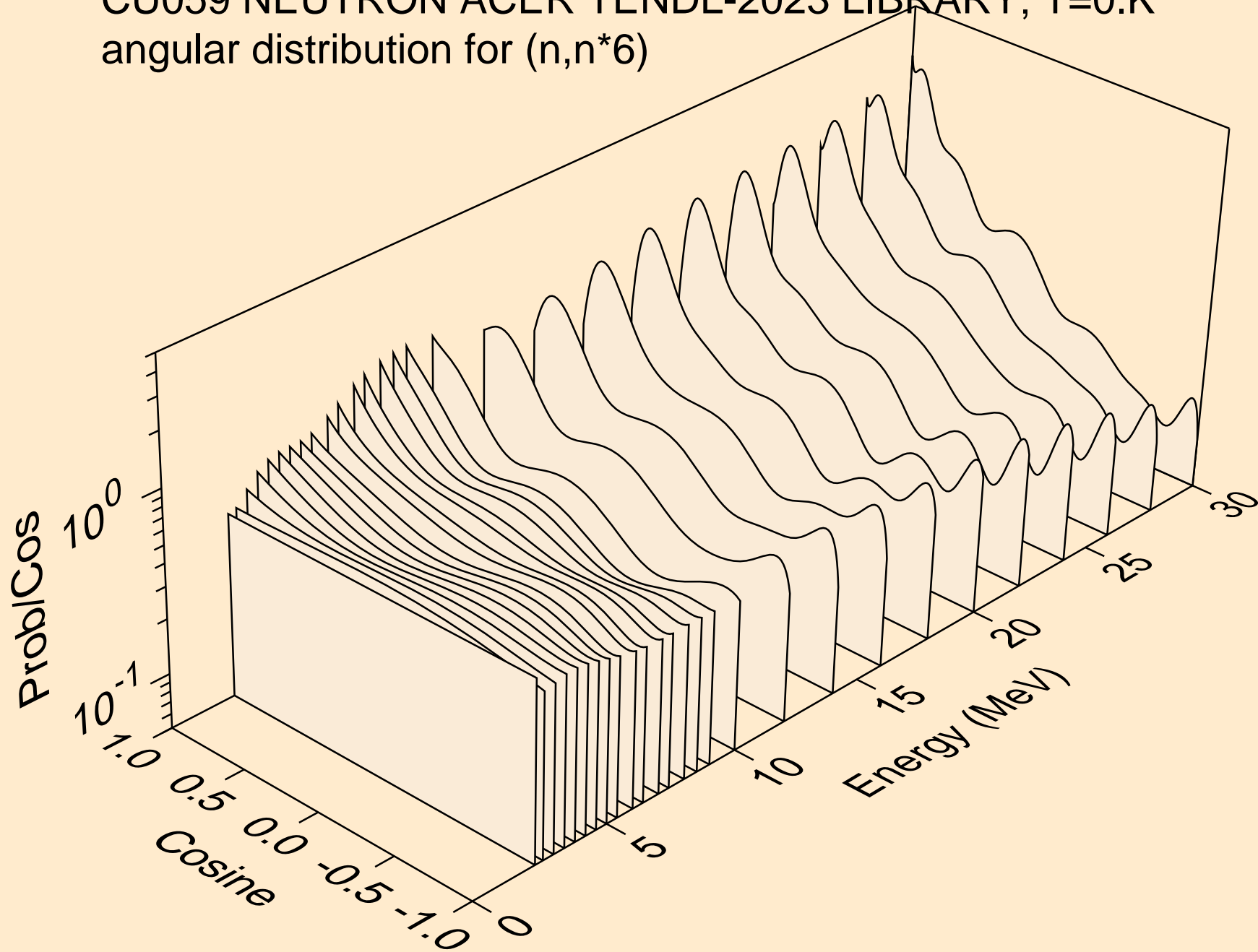
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angular distribution for (n,n\*4)



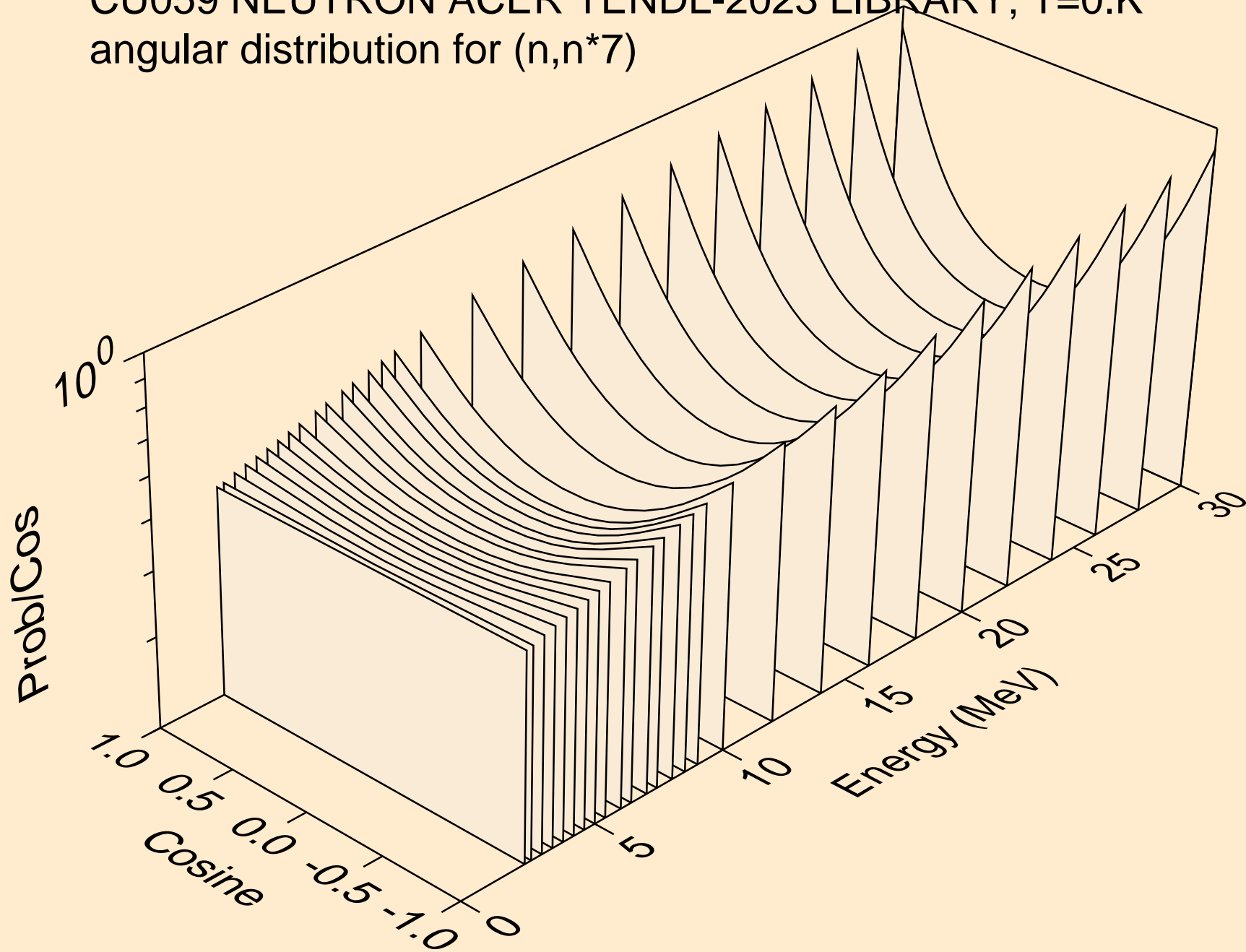
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angular distribution for (n,n\*5)



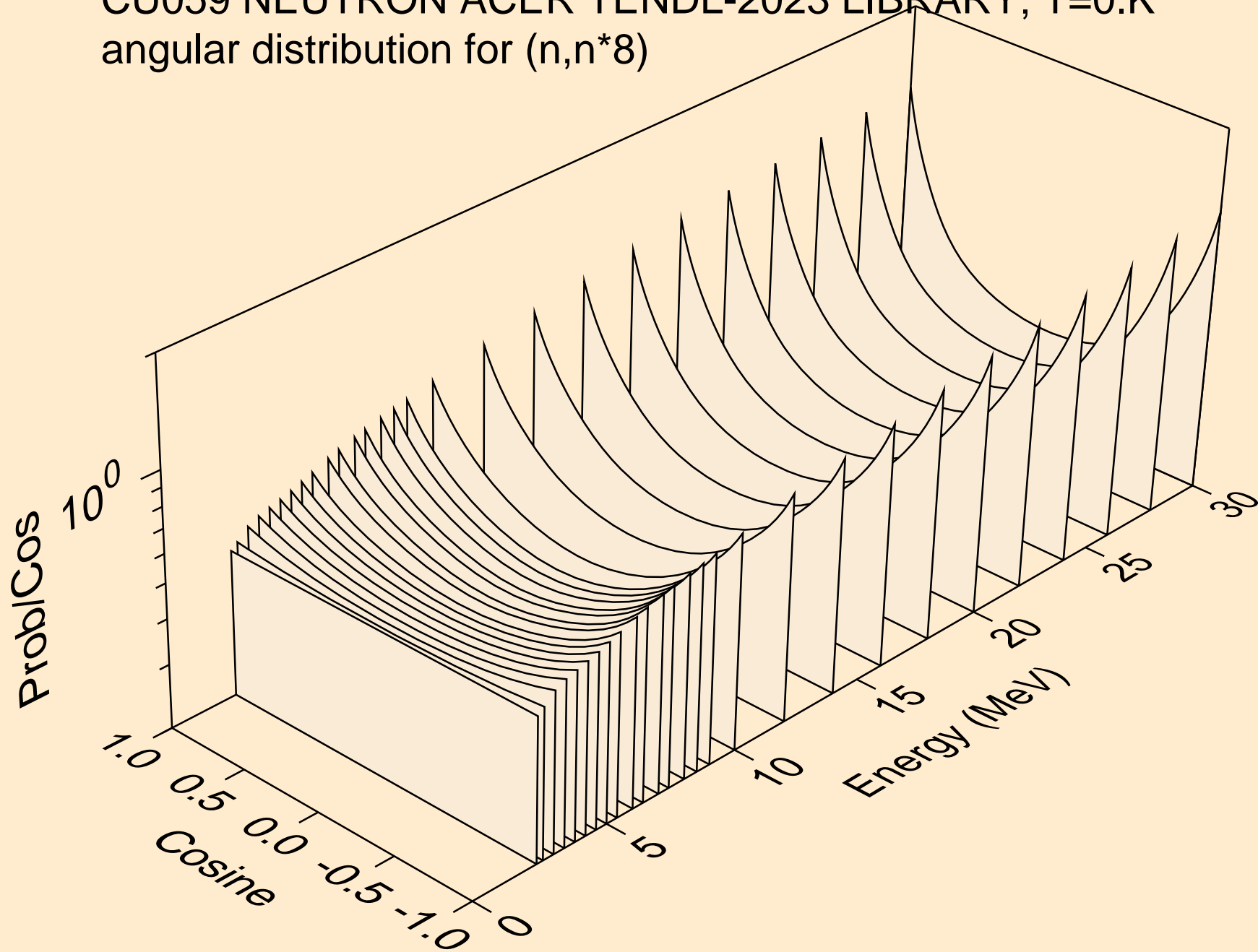
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angular distribution for (n,n\*6)



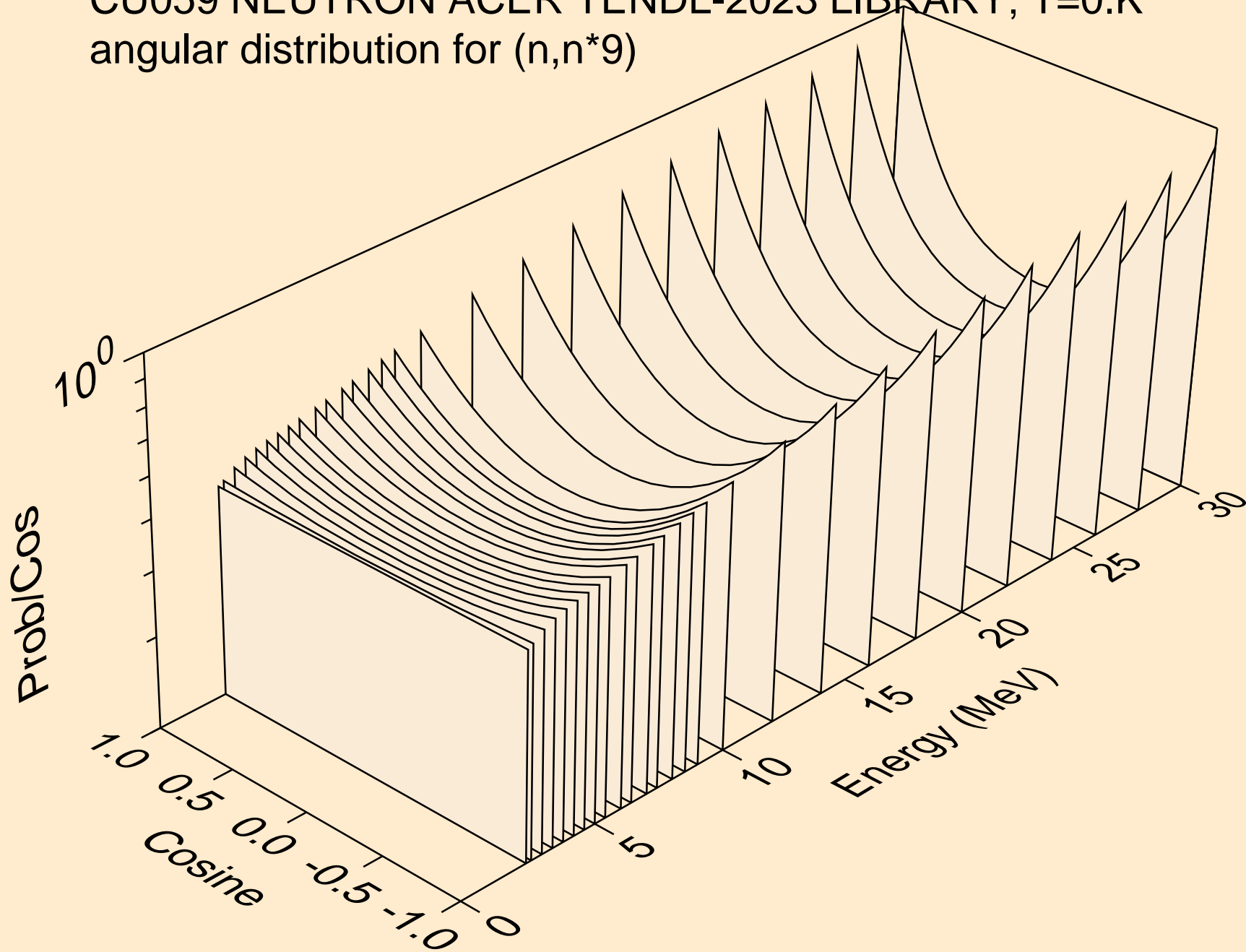
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angular distribution for (n,n\*7)



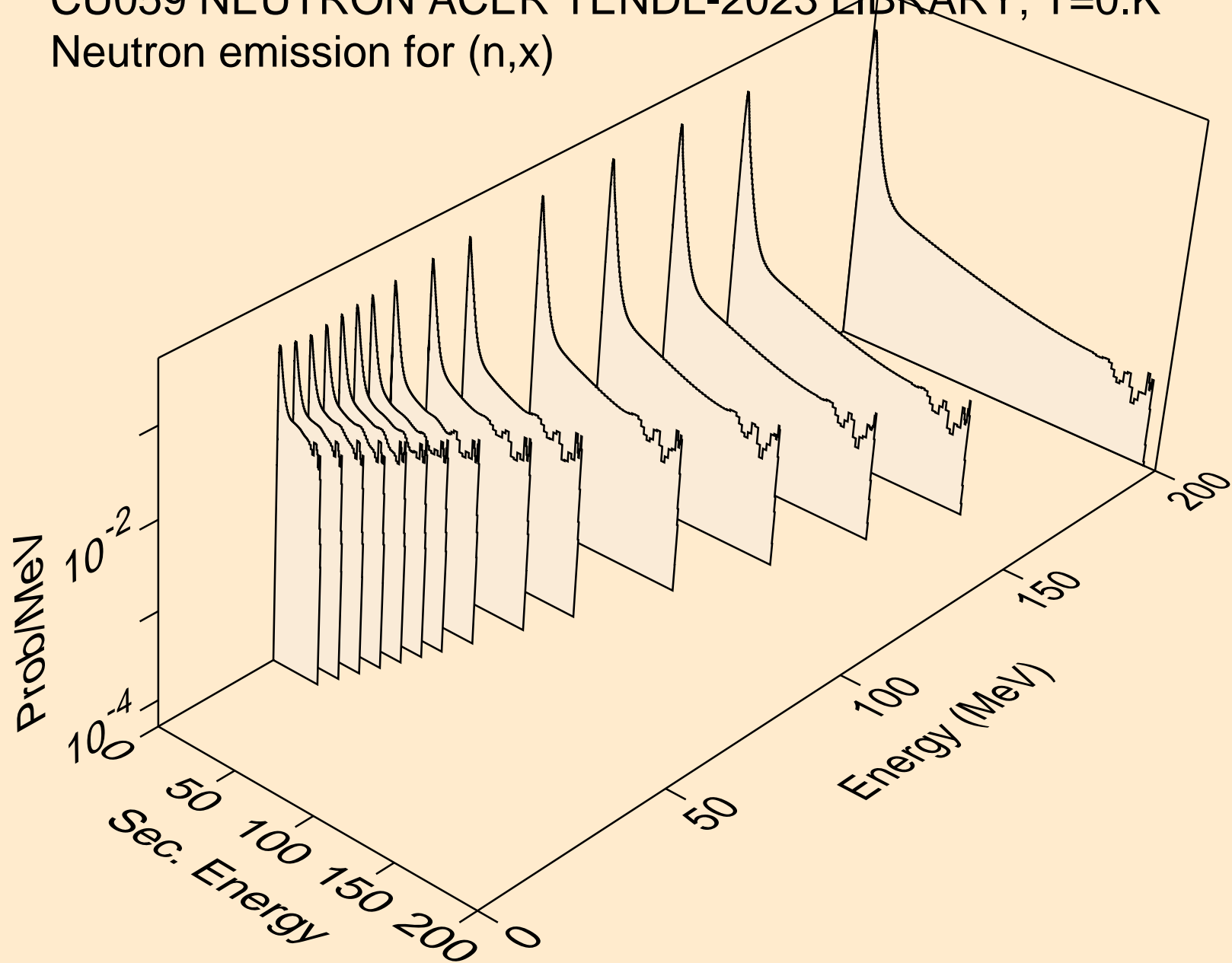
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

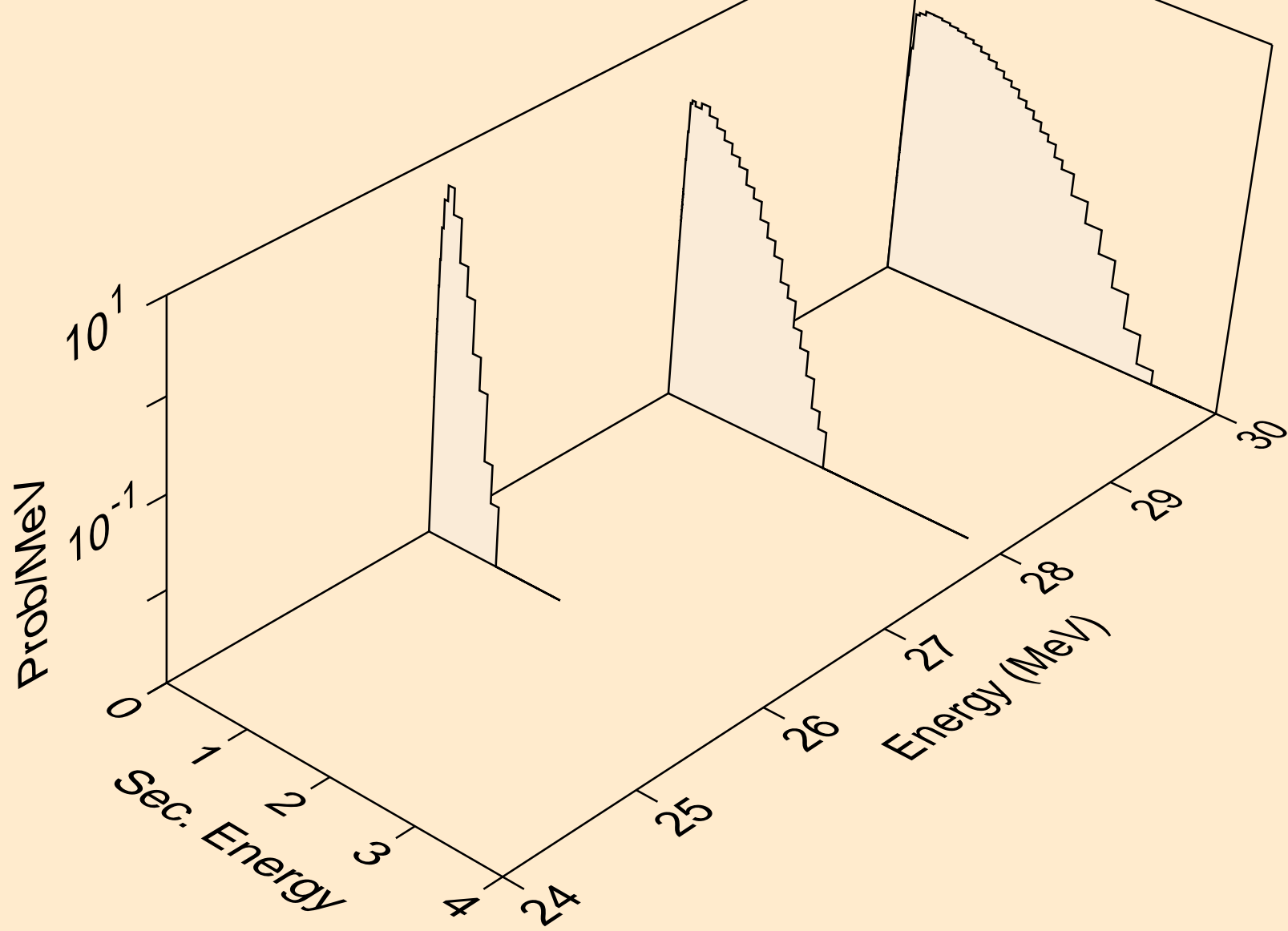


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)

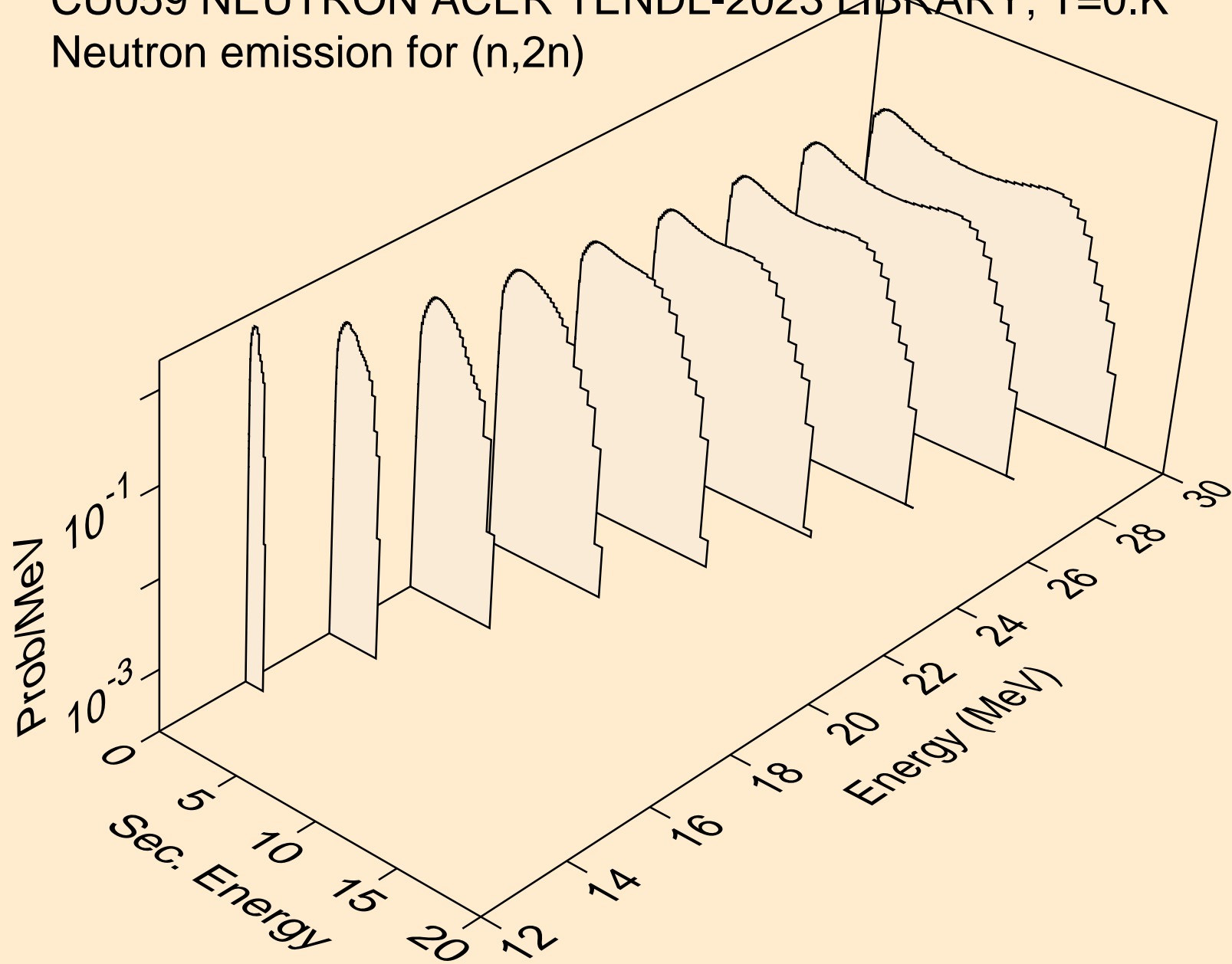




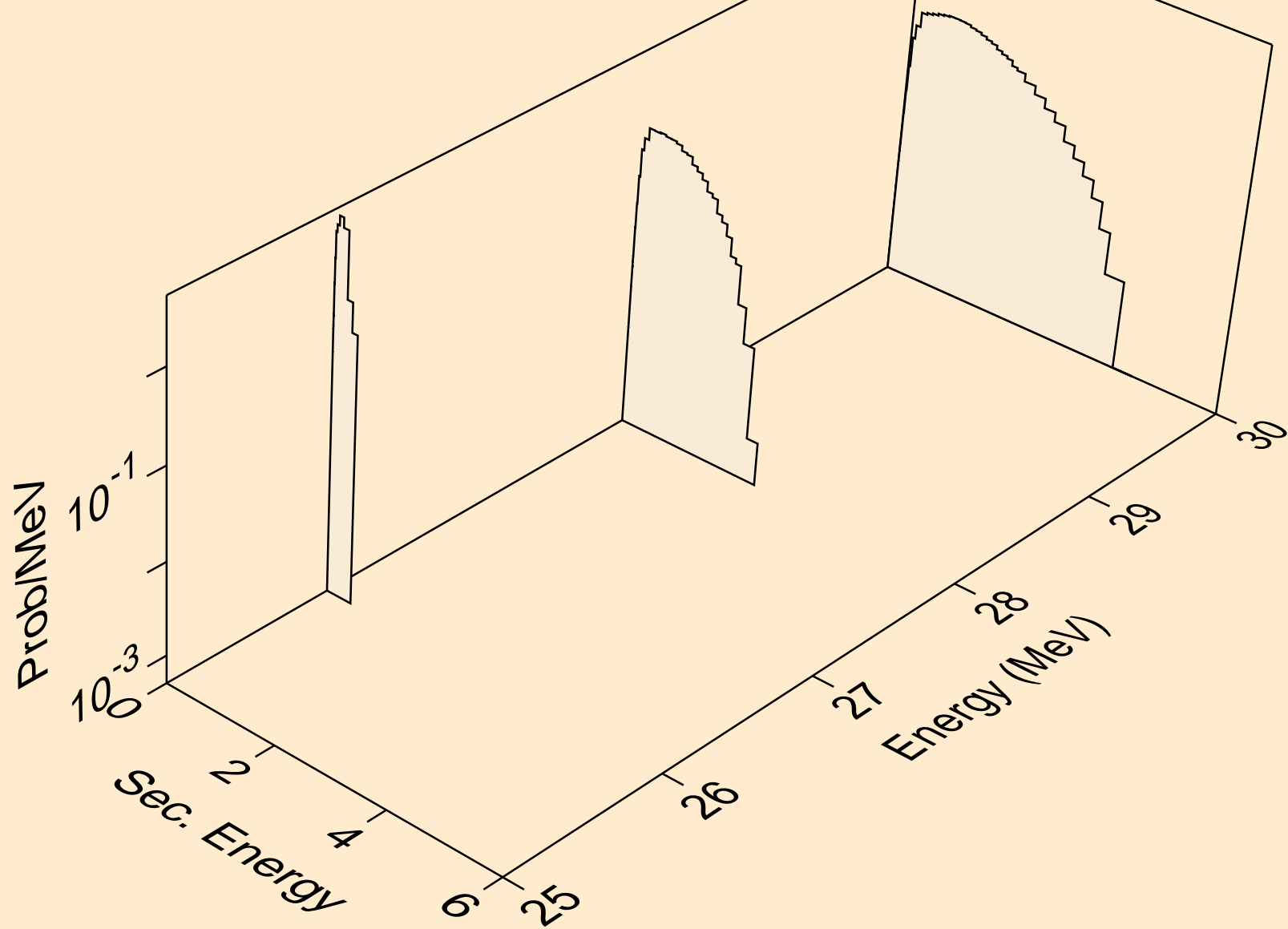
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Neutron emission for (n,2nd)



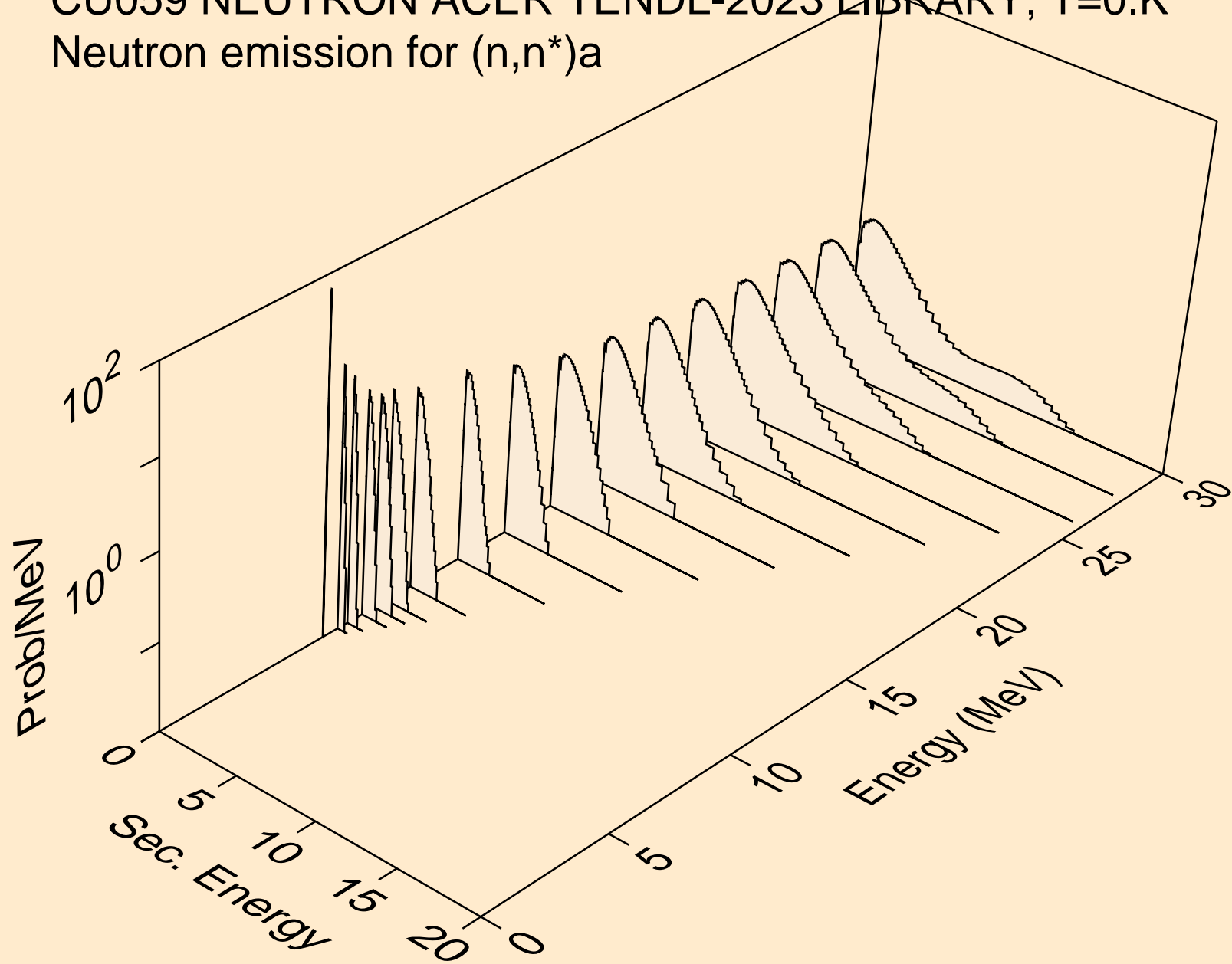
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Neutron emission for (n,2n)



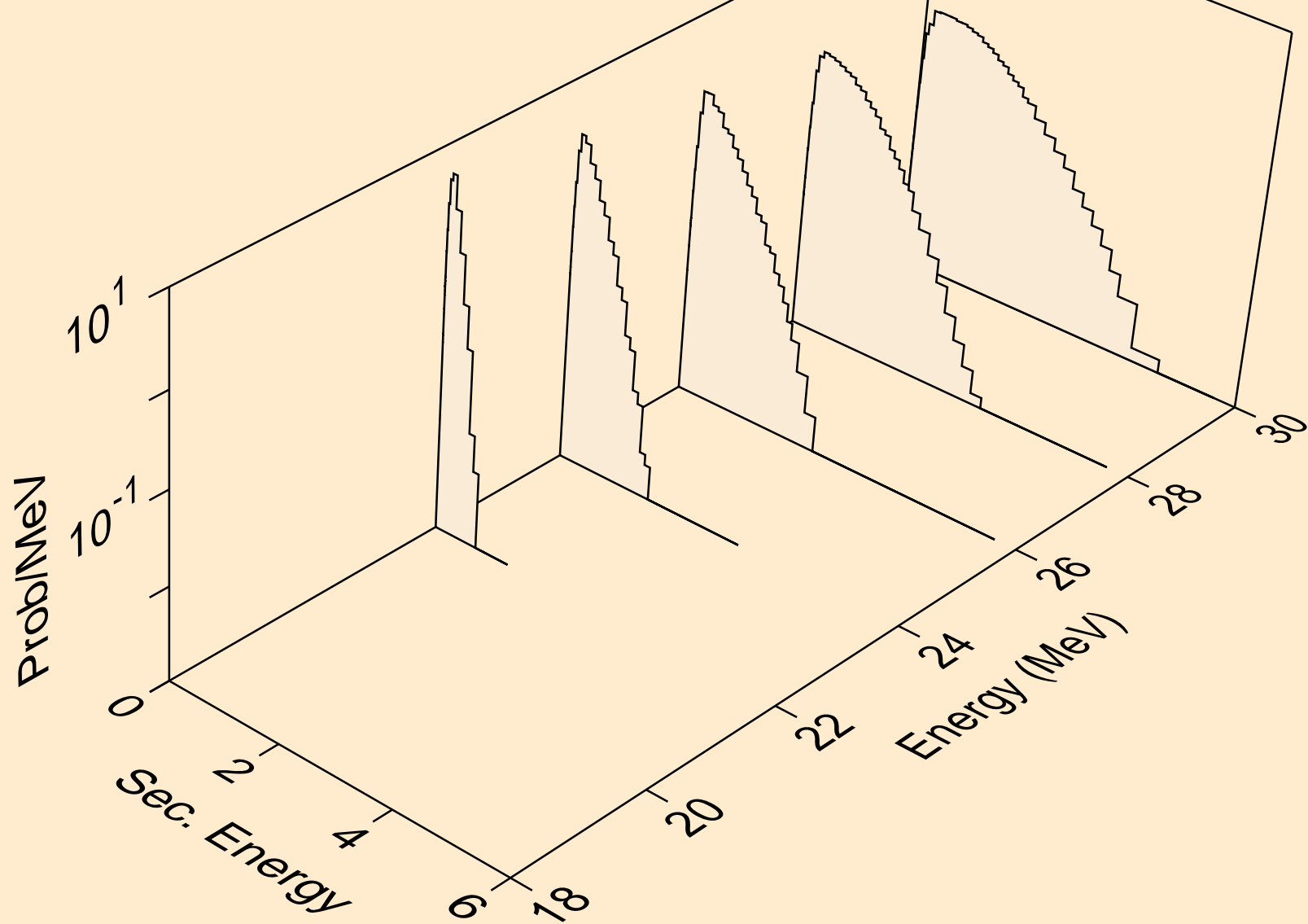
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Neutron emission for (n,3n)



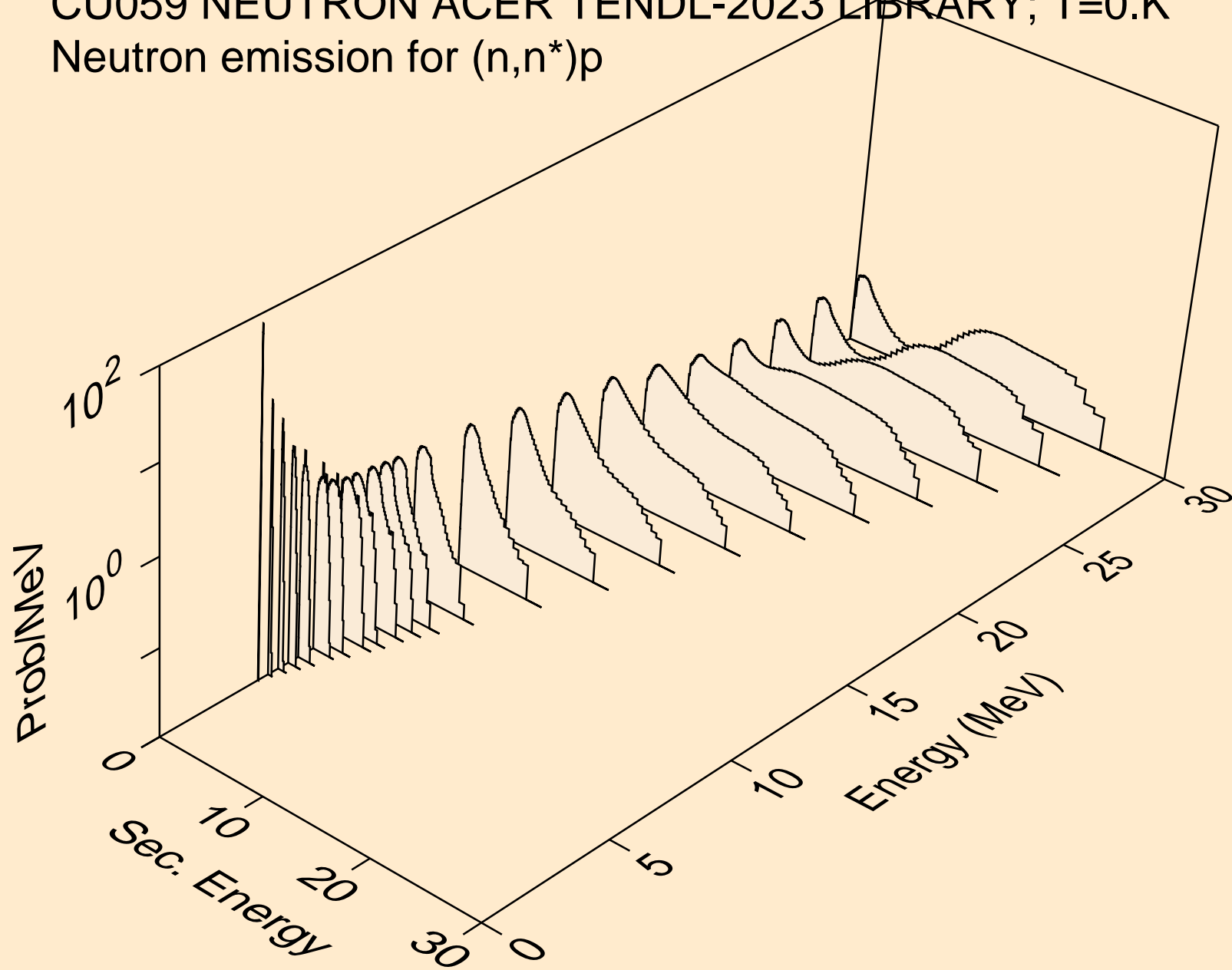
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Neutron emission for (n,n\*)a



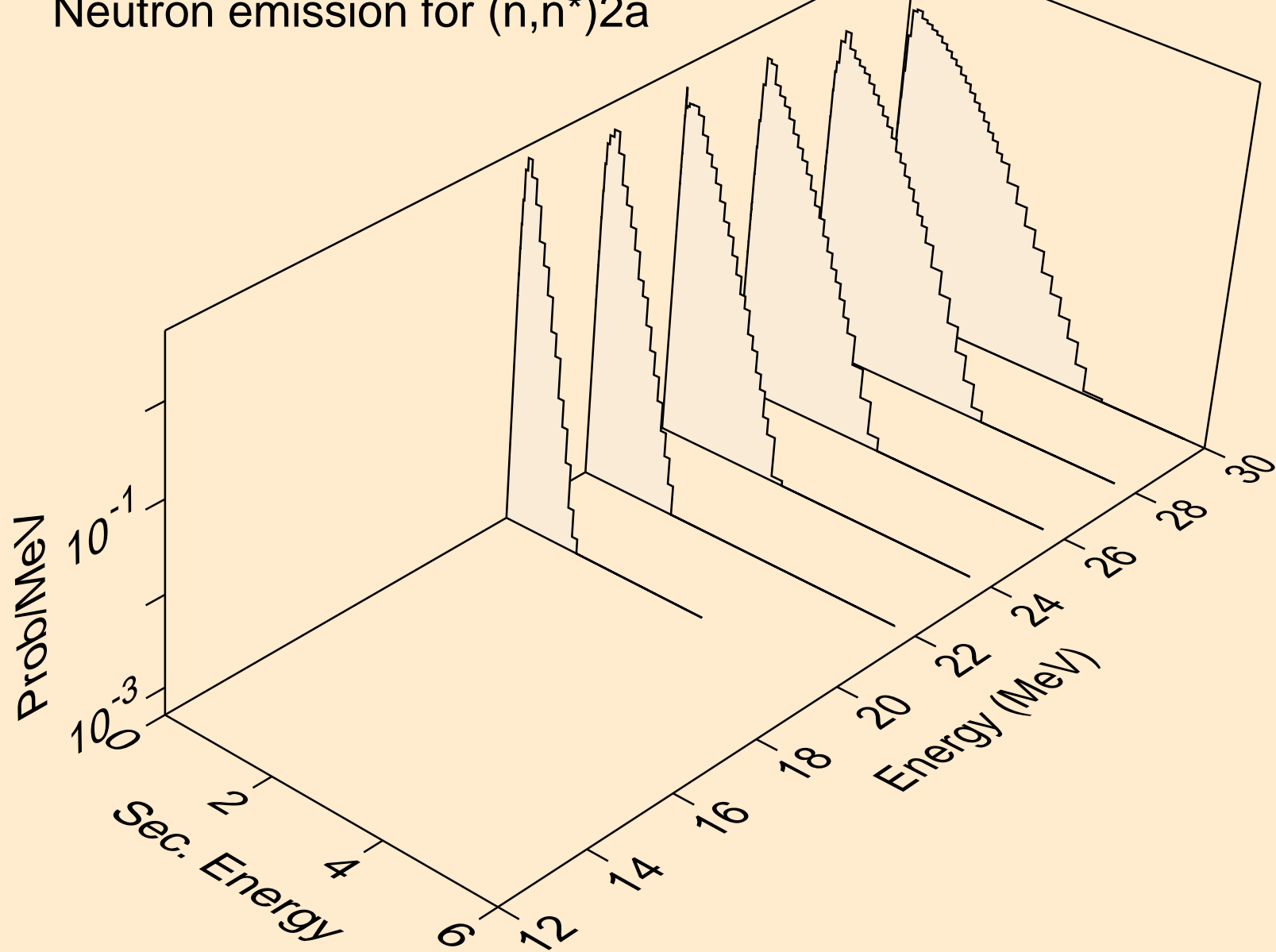
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Neutron emission for (n,2n)a



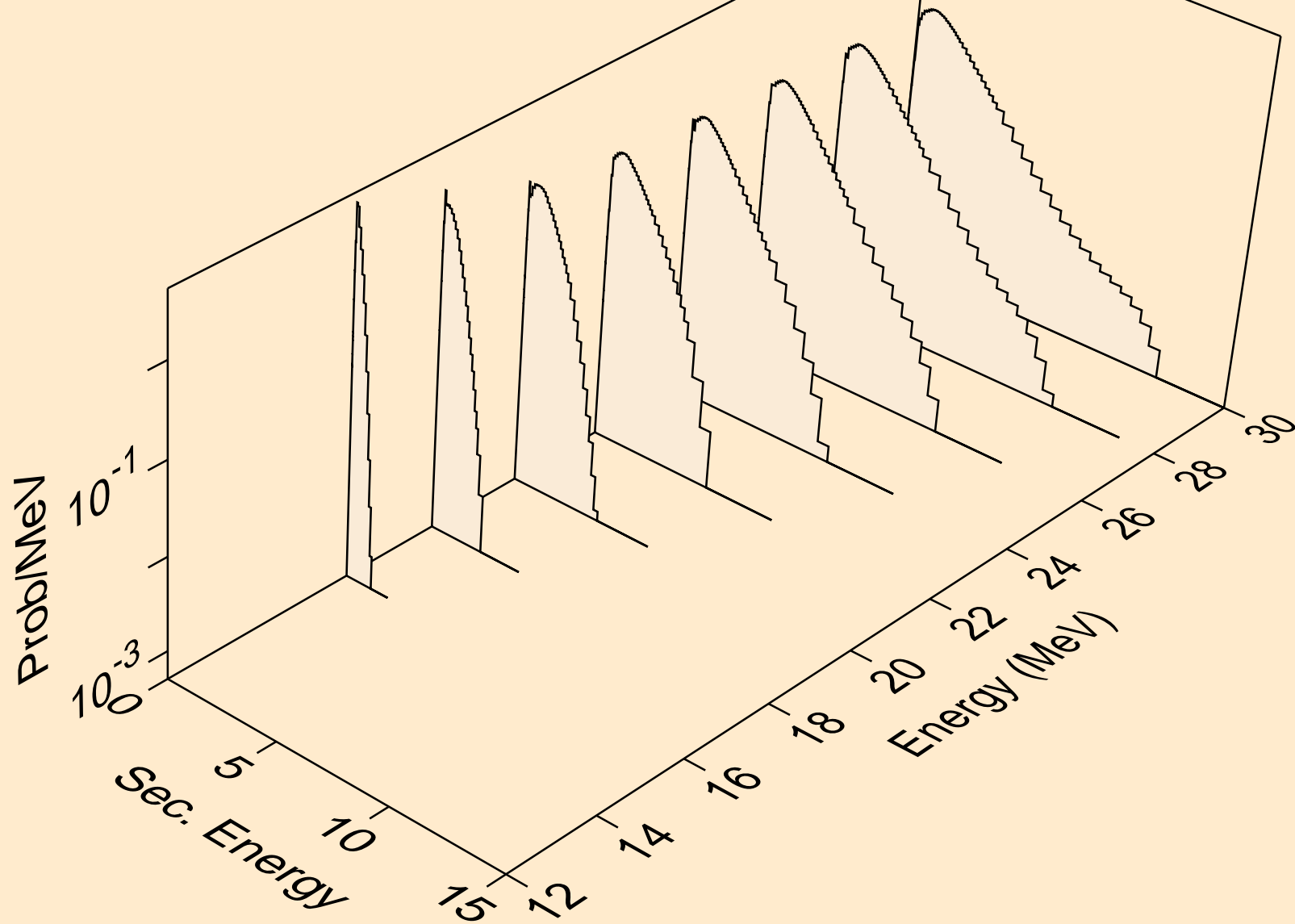
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a

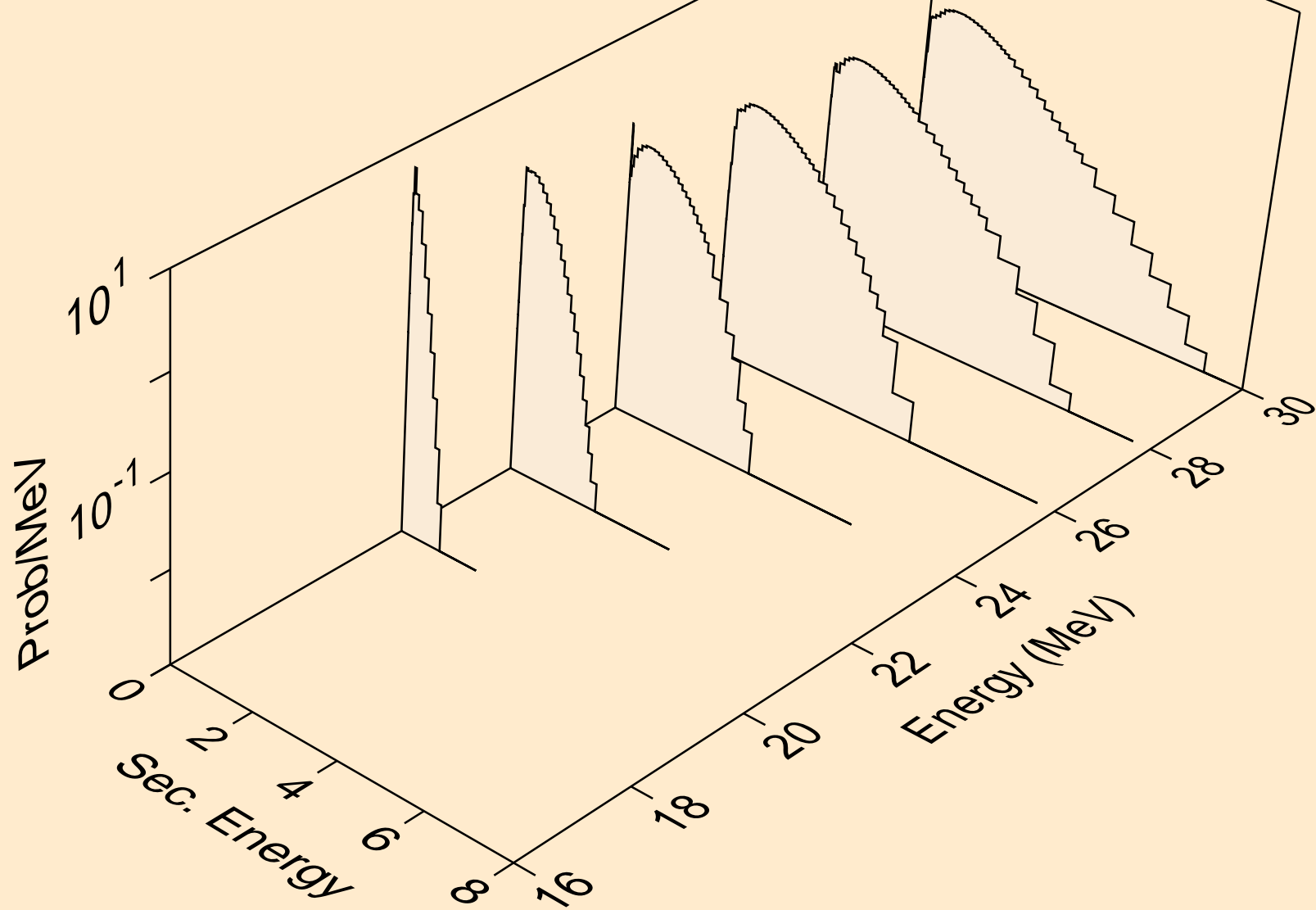


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d

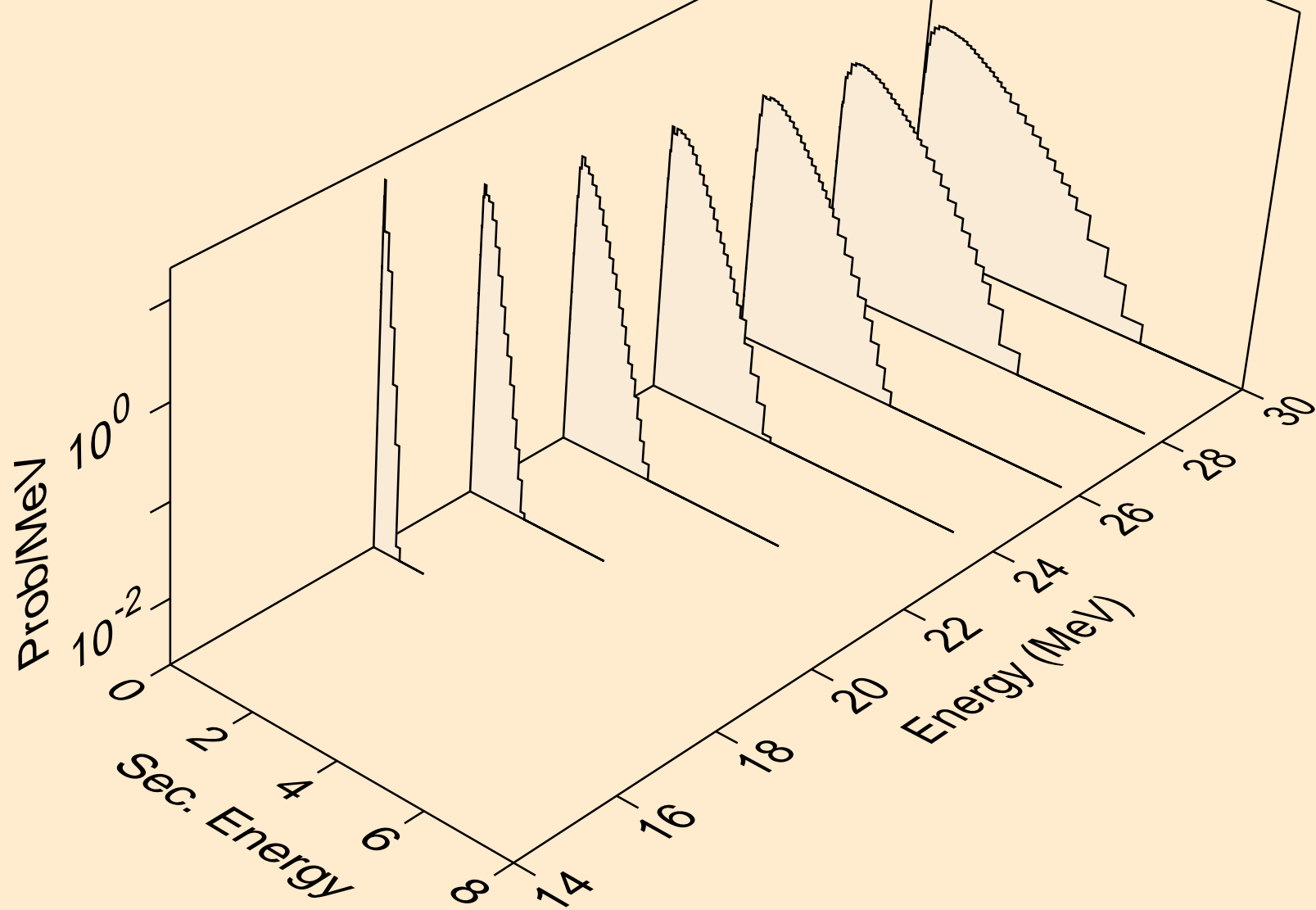




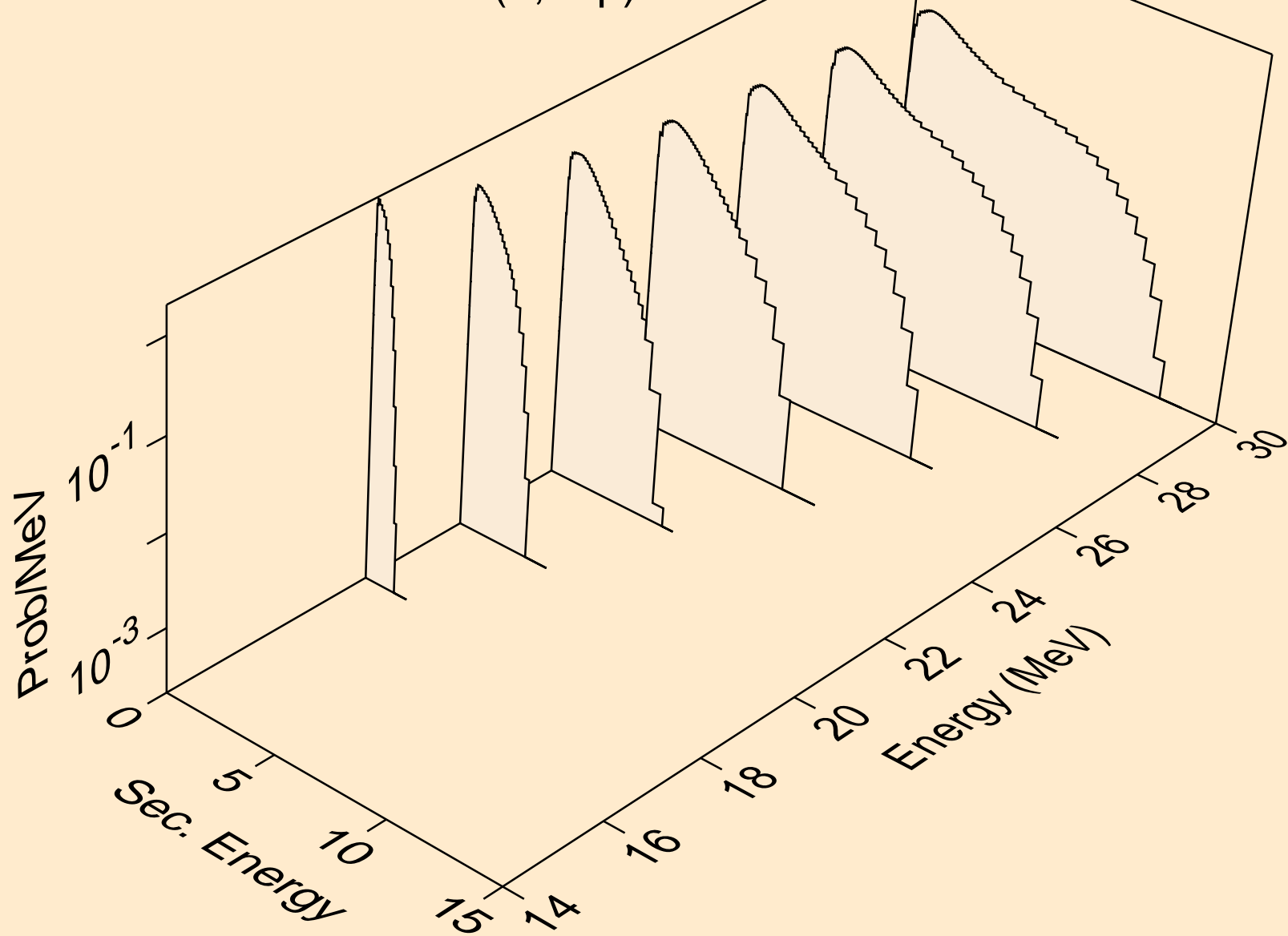
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Neutron emission for (n,n\*)t



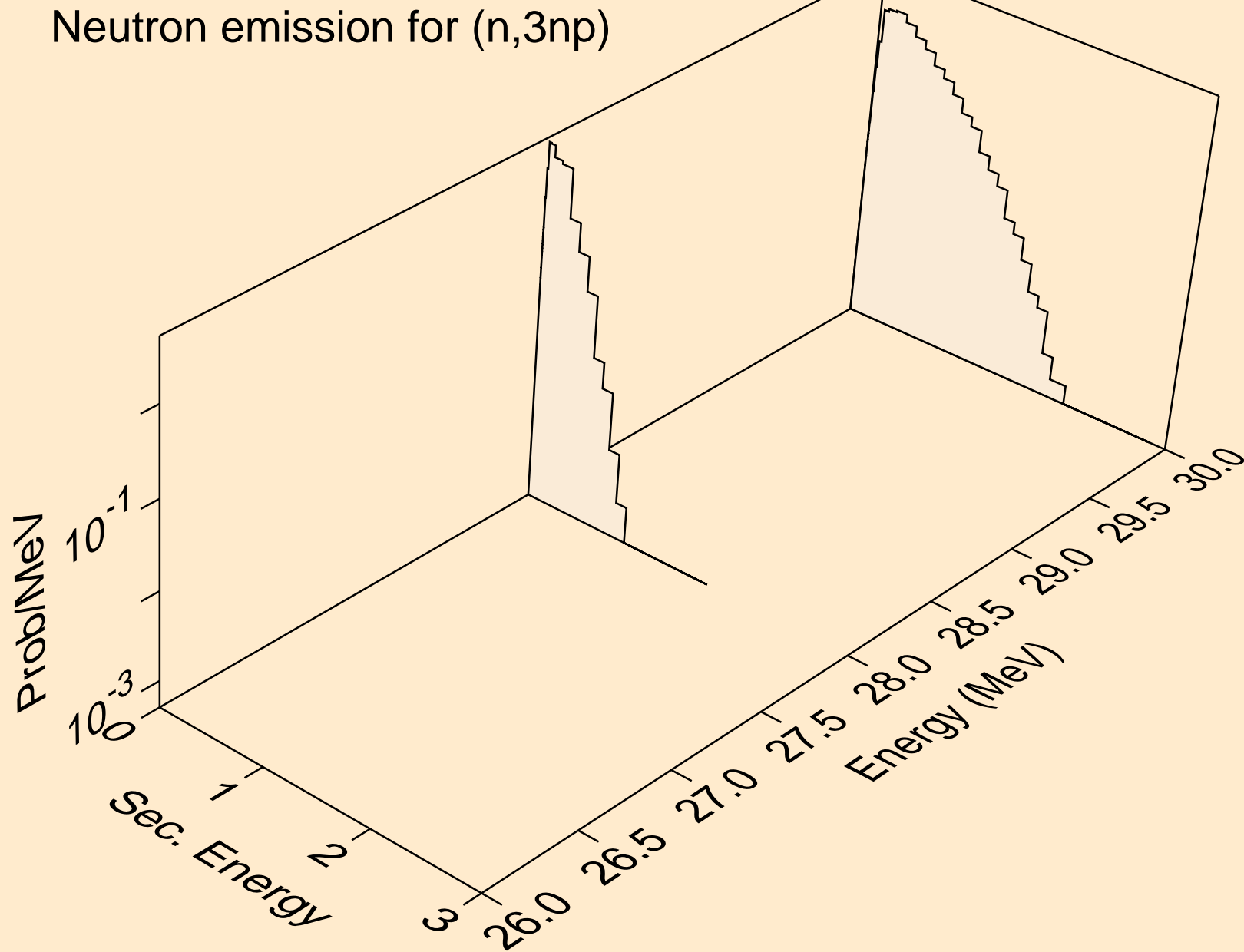
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Neutron emission for (n,n\*)he3



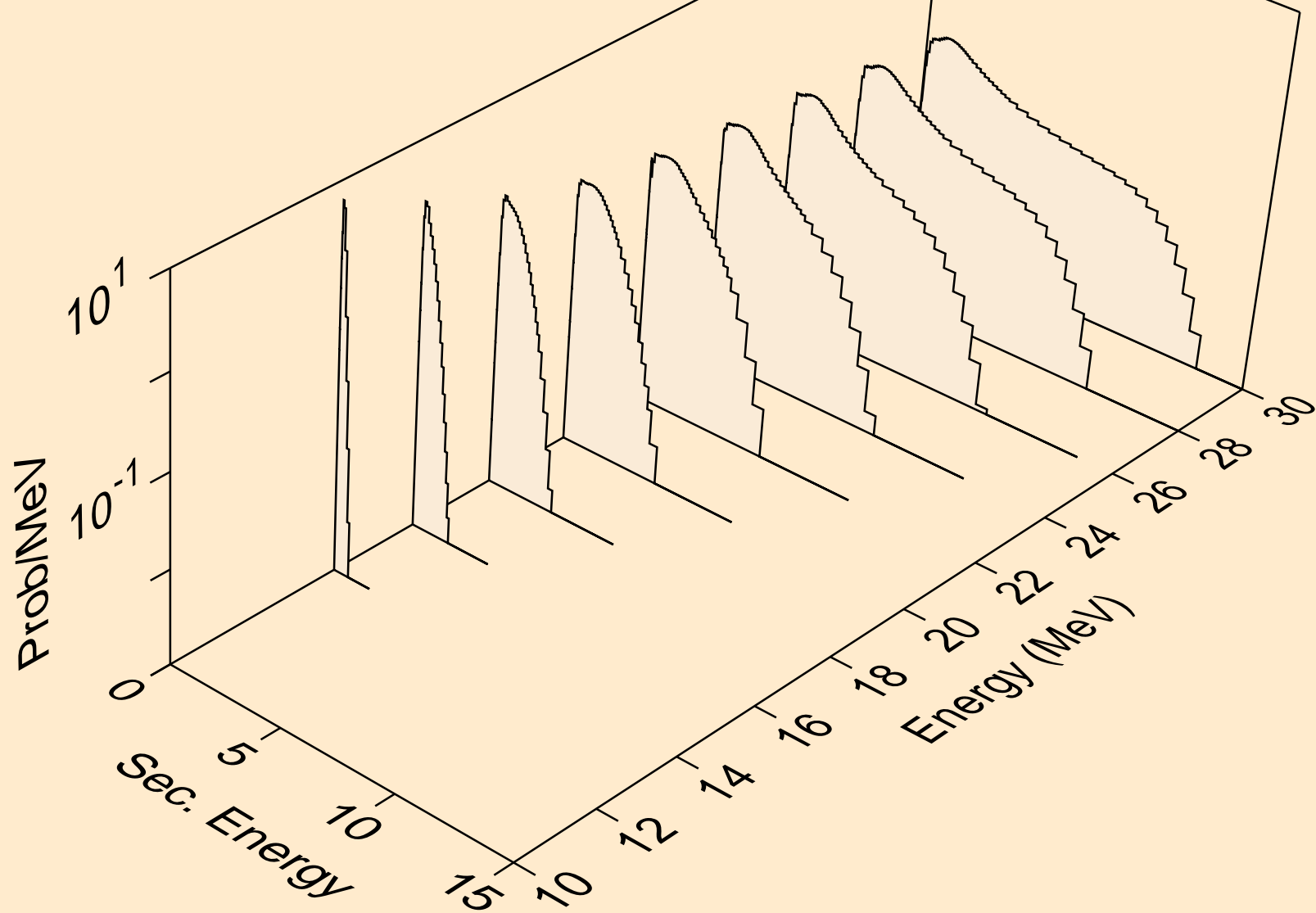
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Neutron emission for (n,2np)



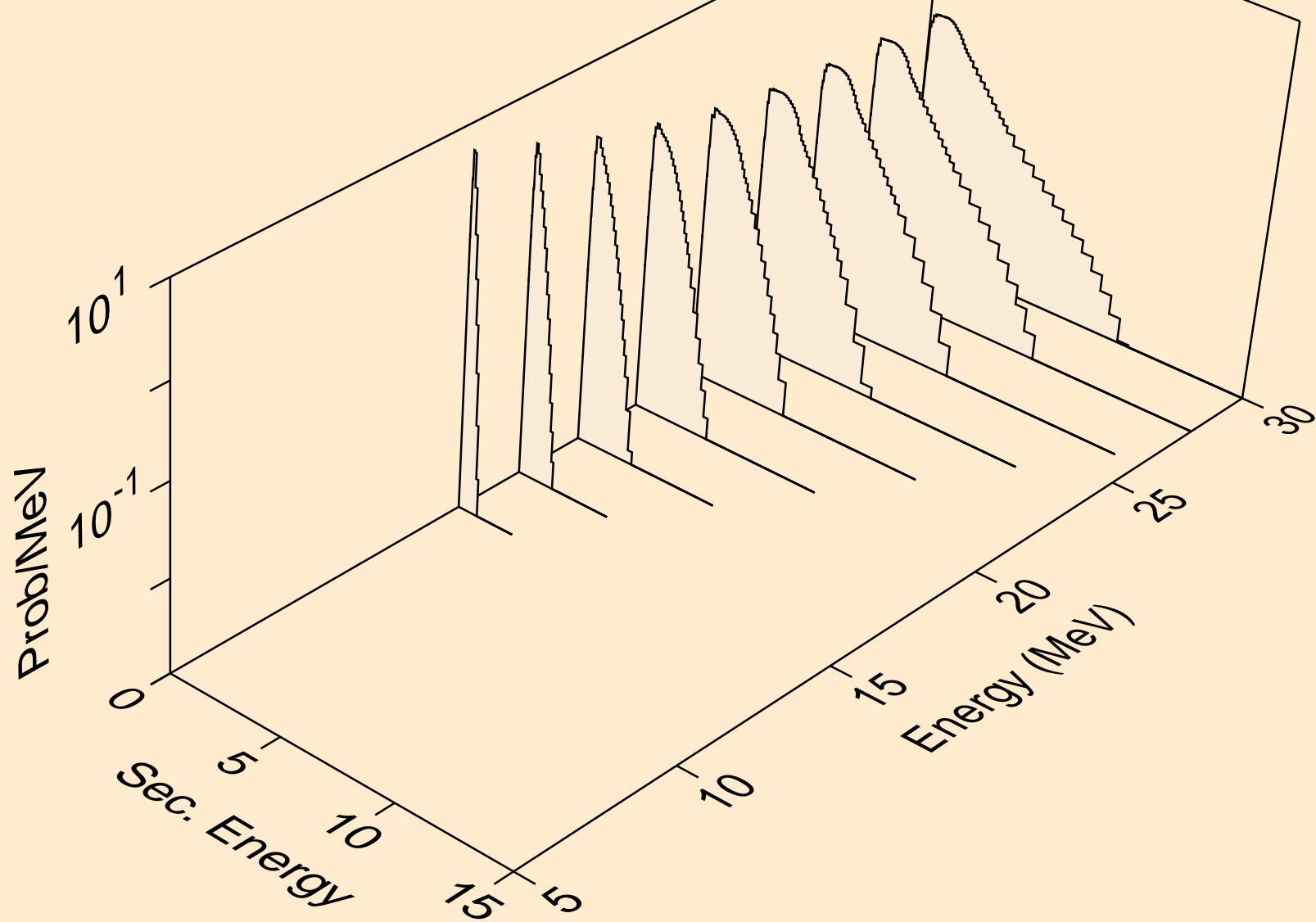
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Neutron emission for (n,3np)



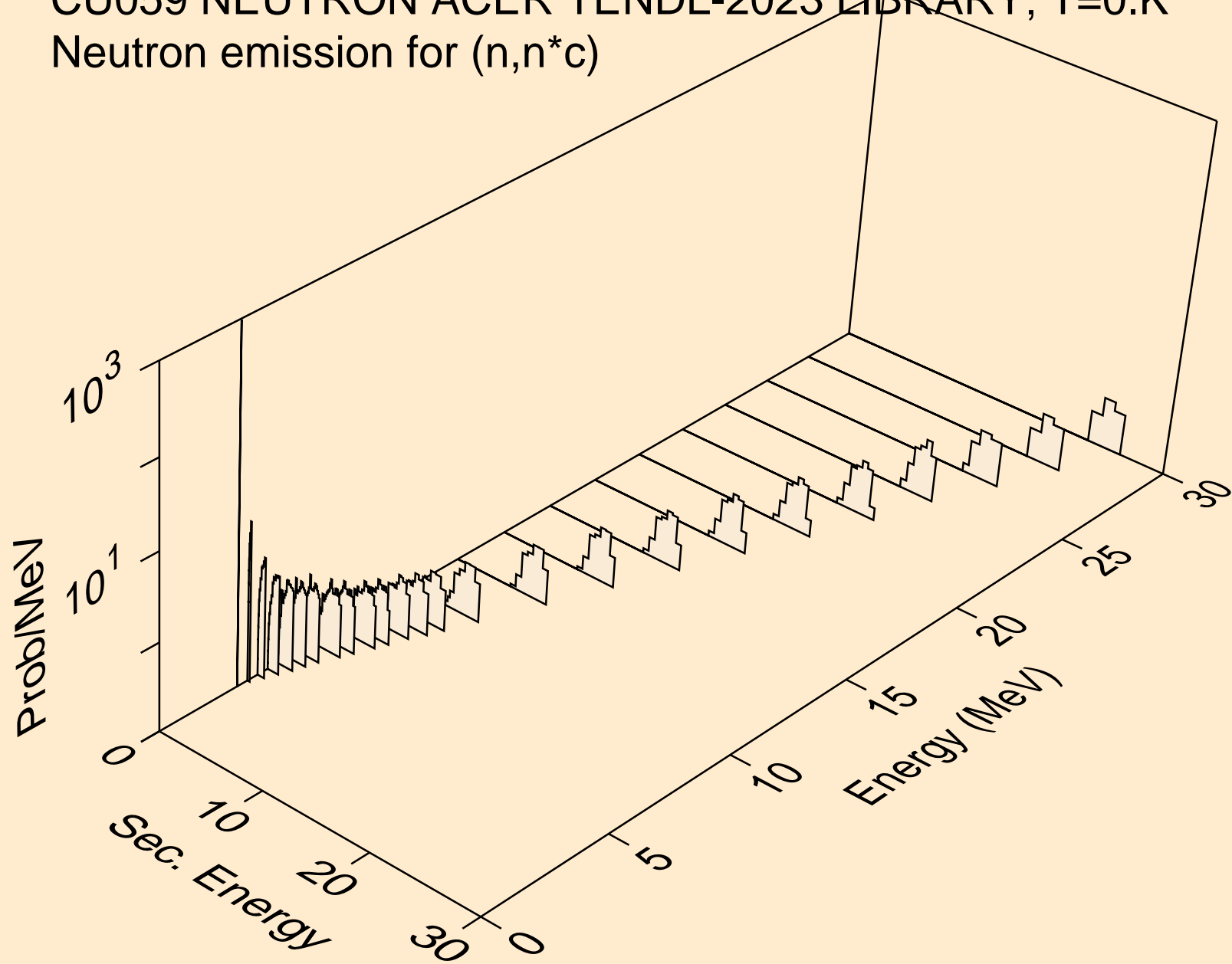
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Neutron emission for (n,n2p)



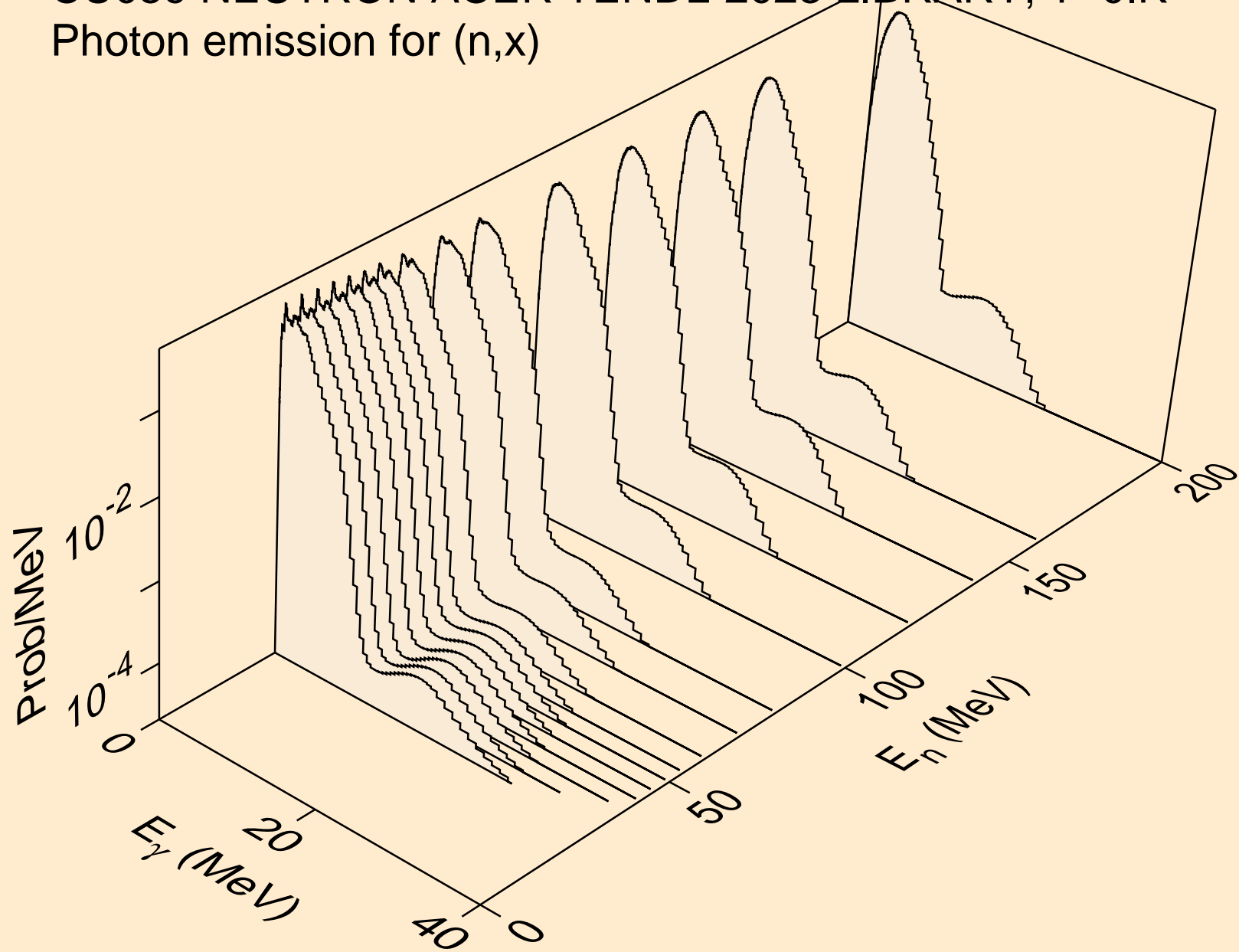
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)

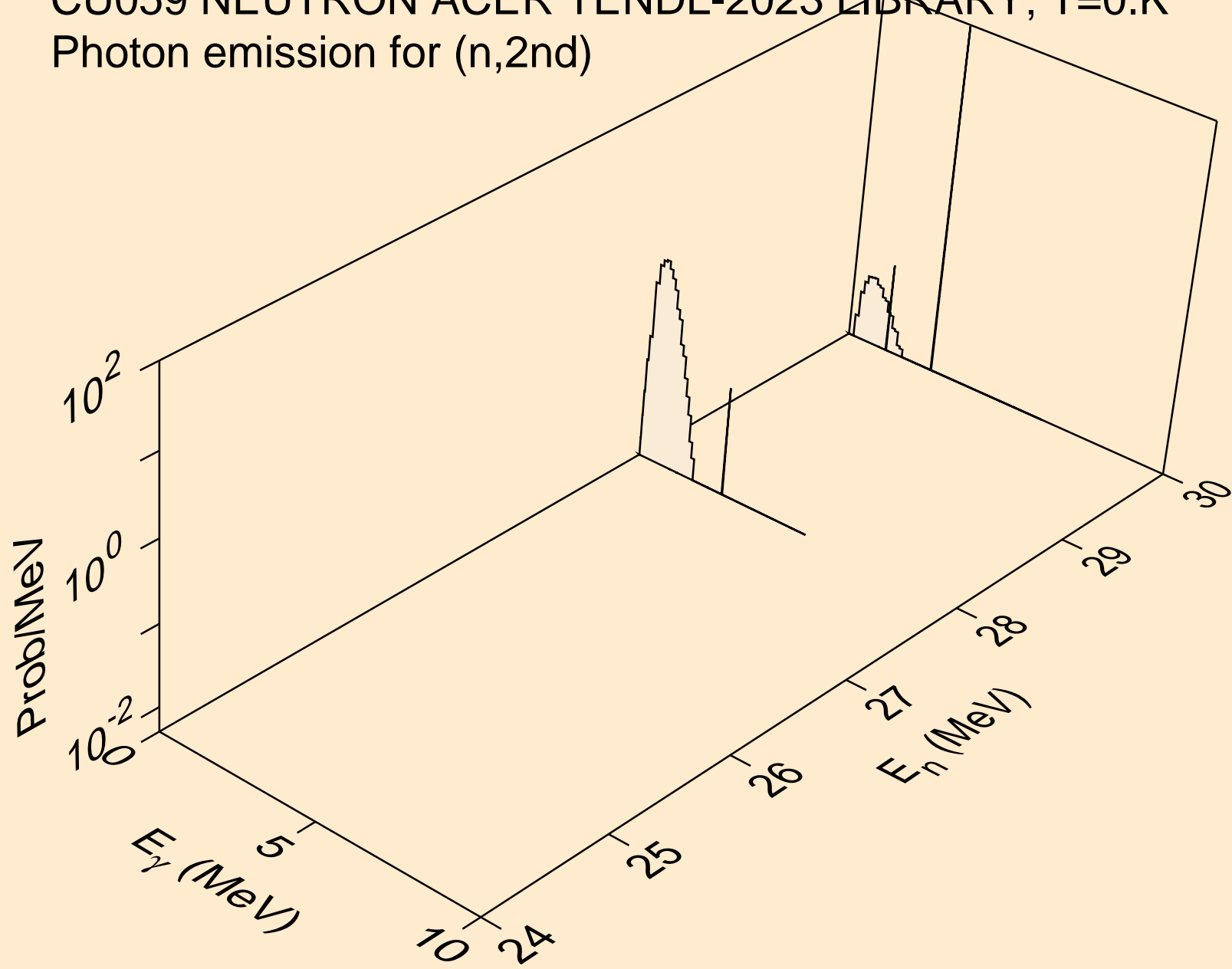


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)

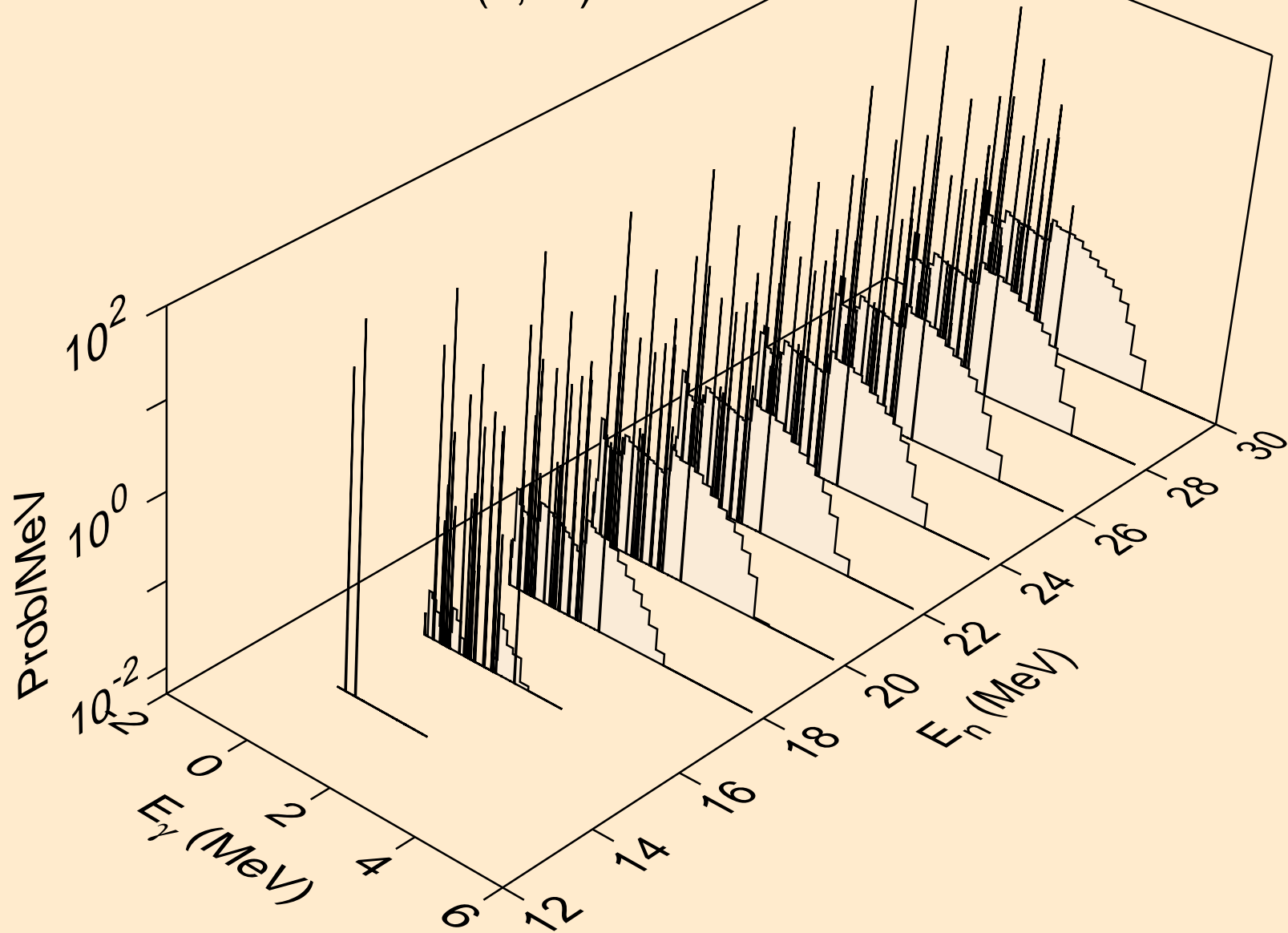




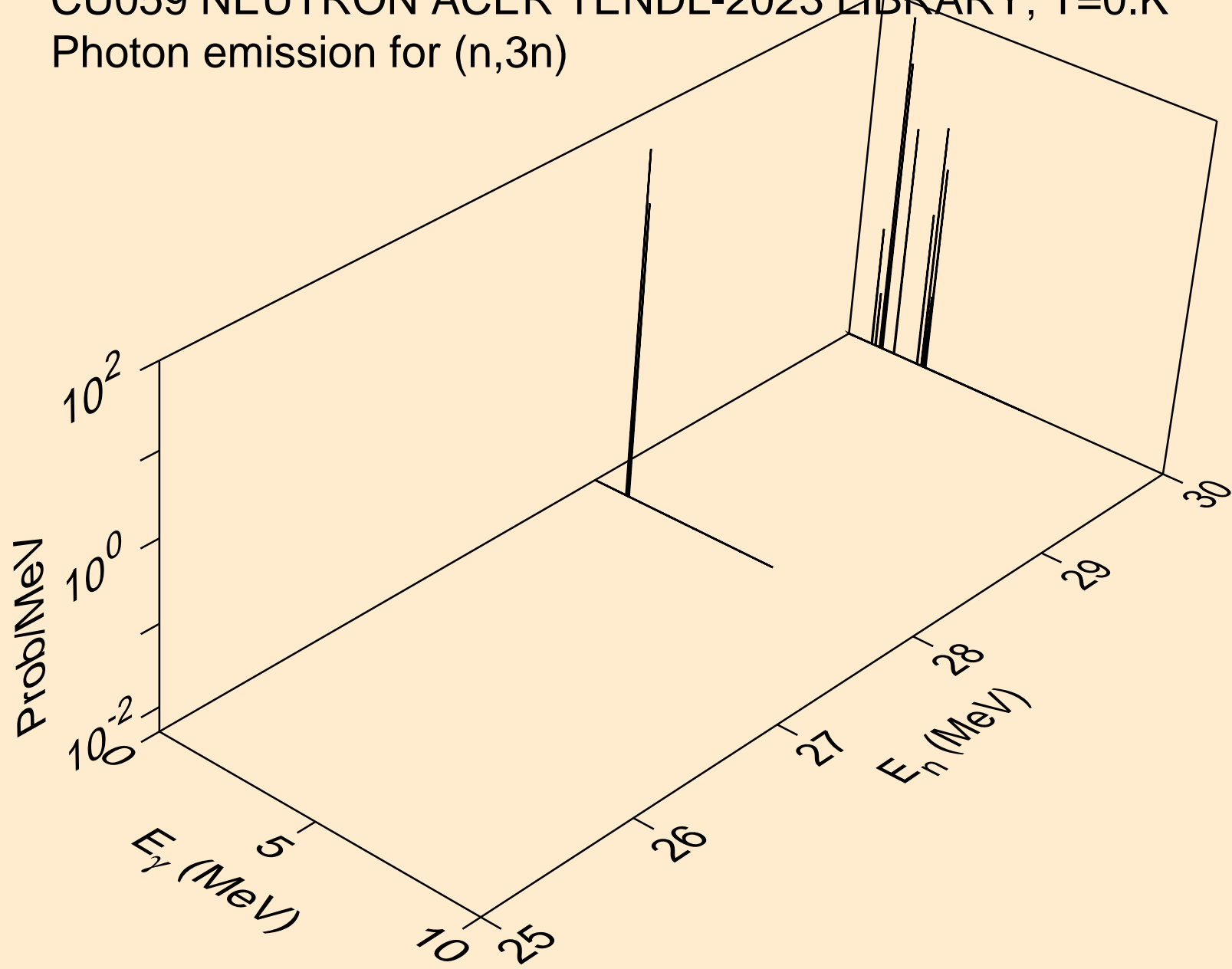
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Photon emission for (n,2nd)



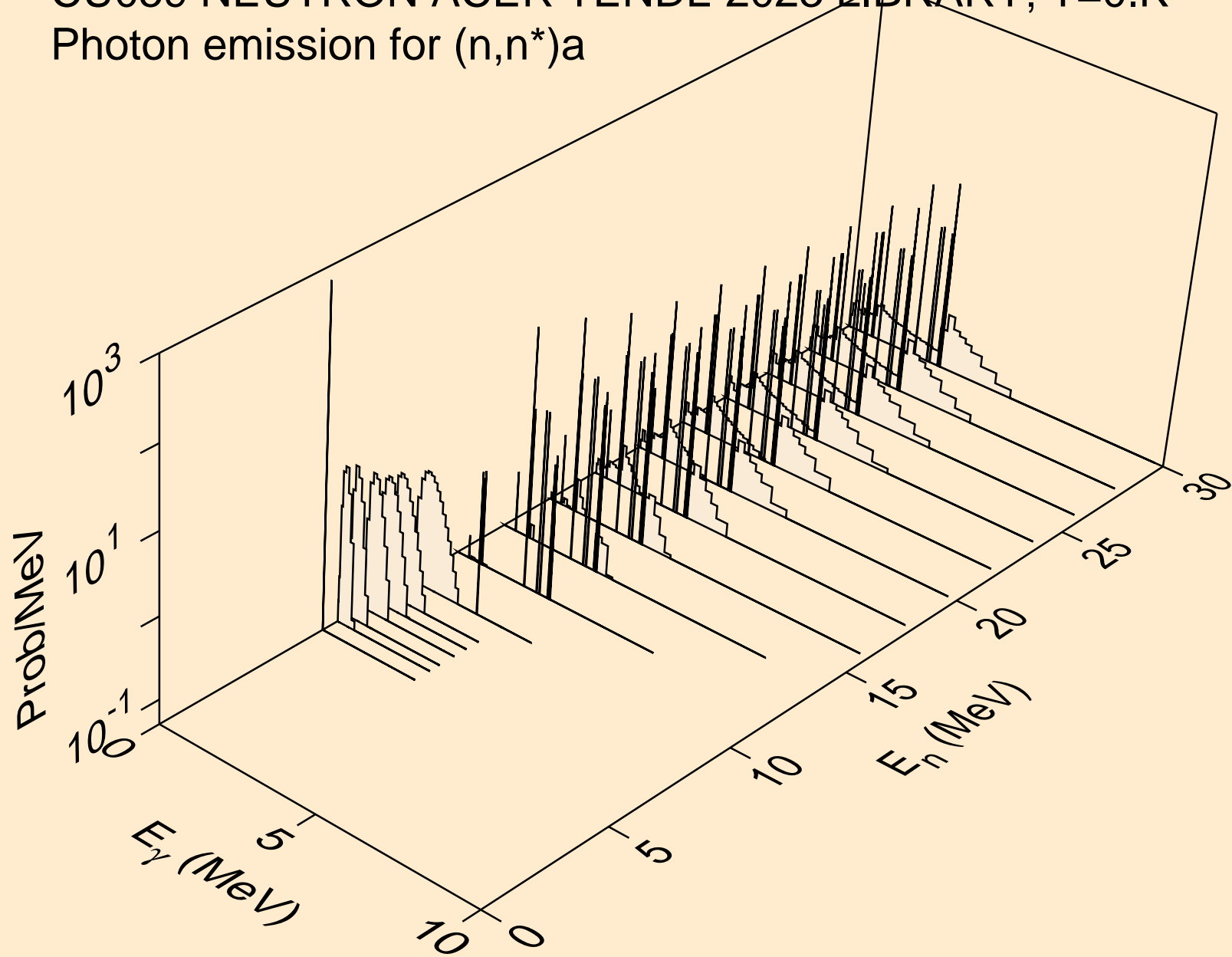
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Photon emission for (n,2n)



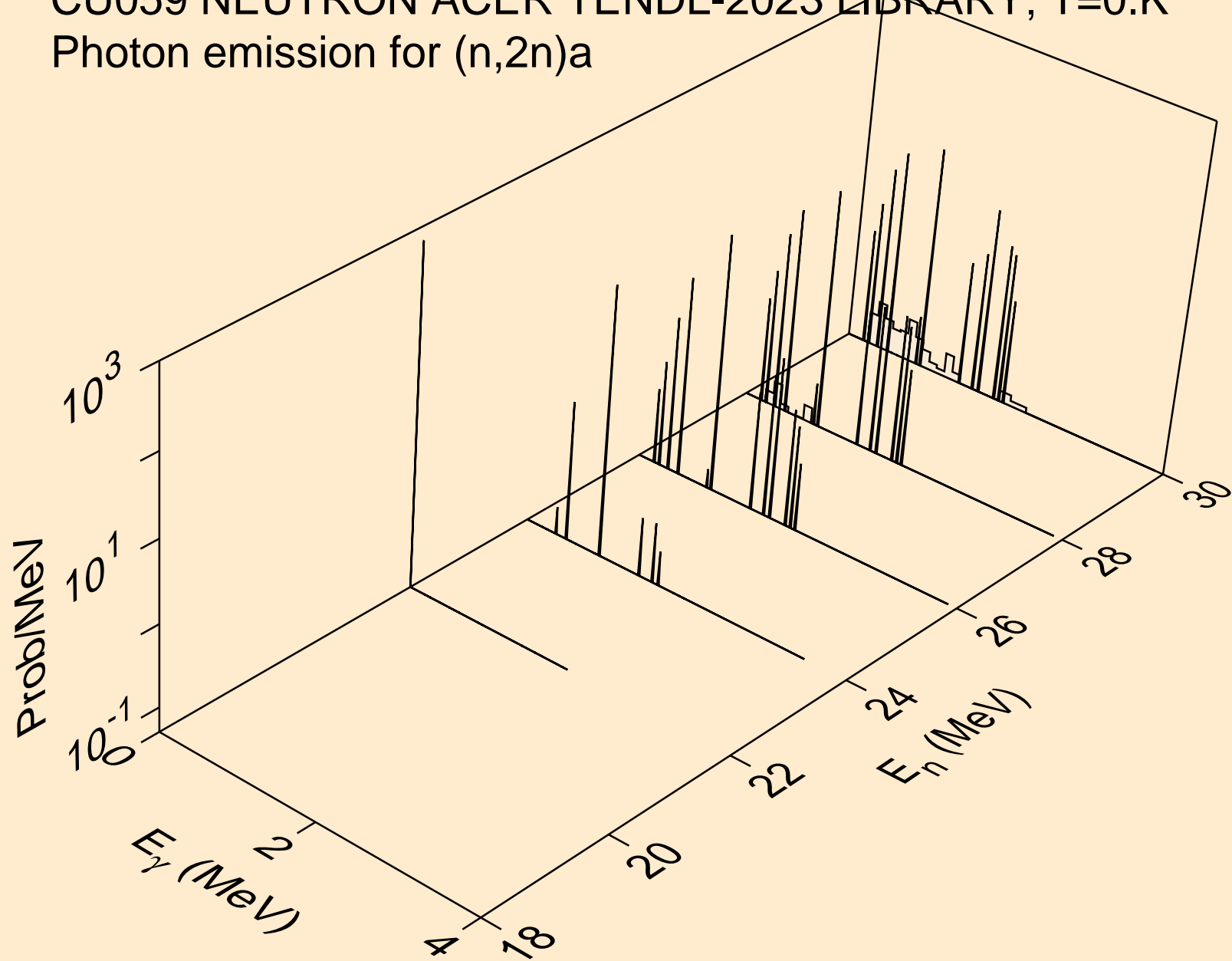
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Photon emission for (n,3n)



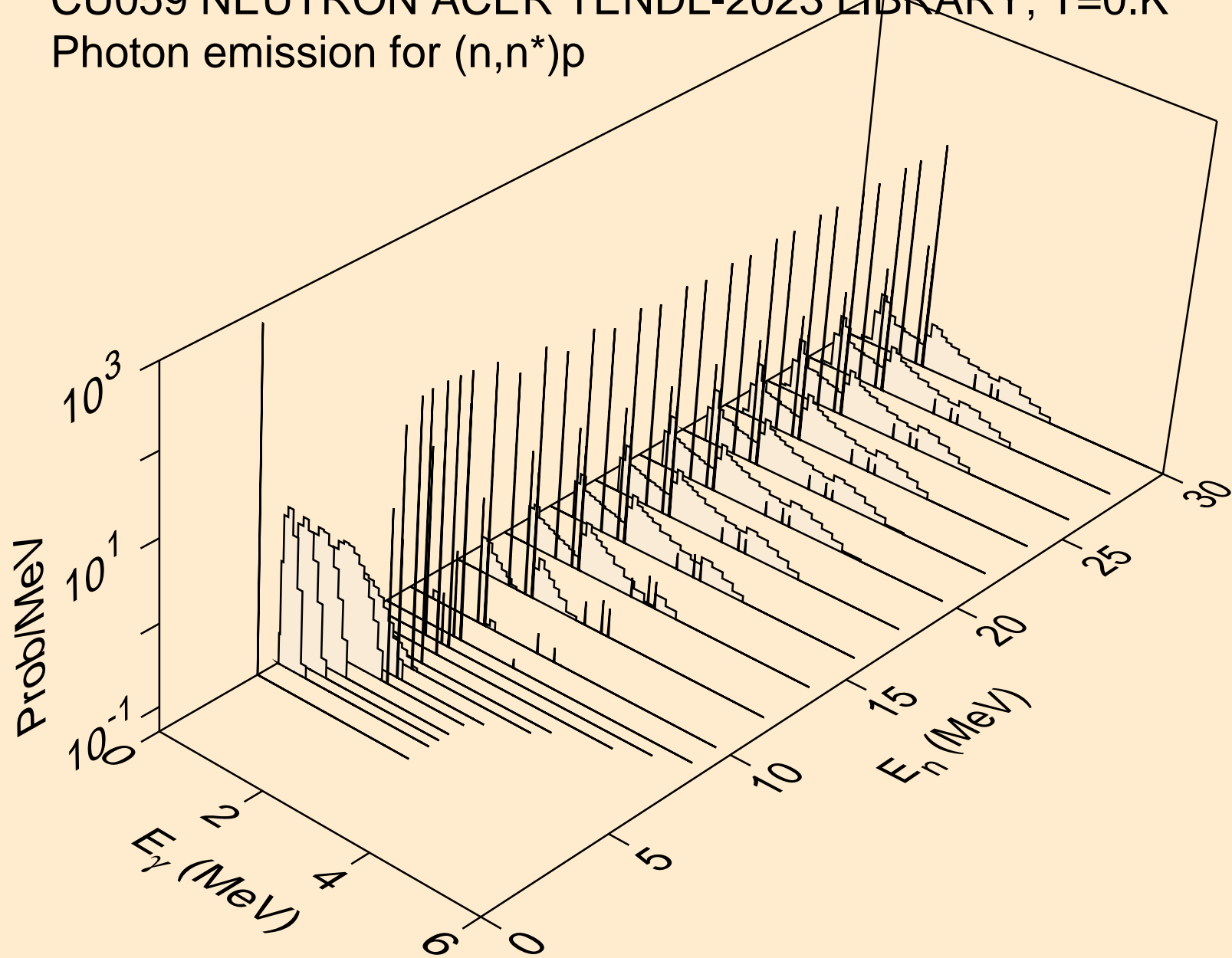
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Photon emission for (n,n\*)a



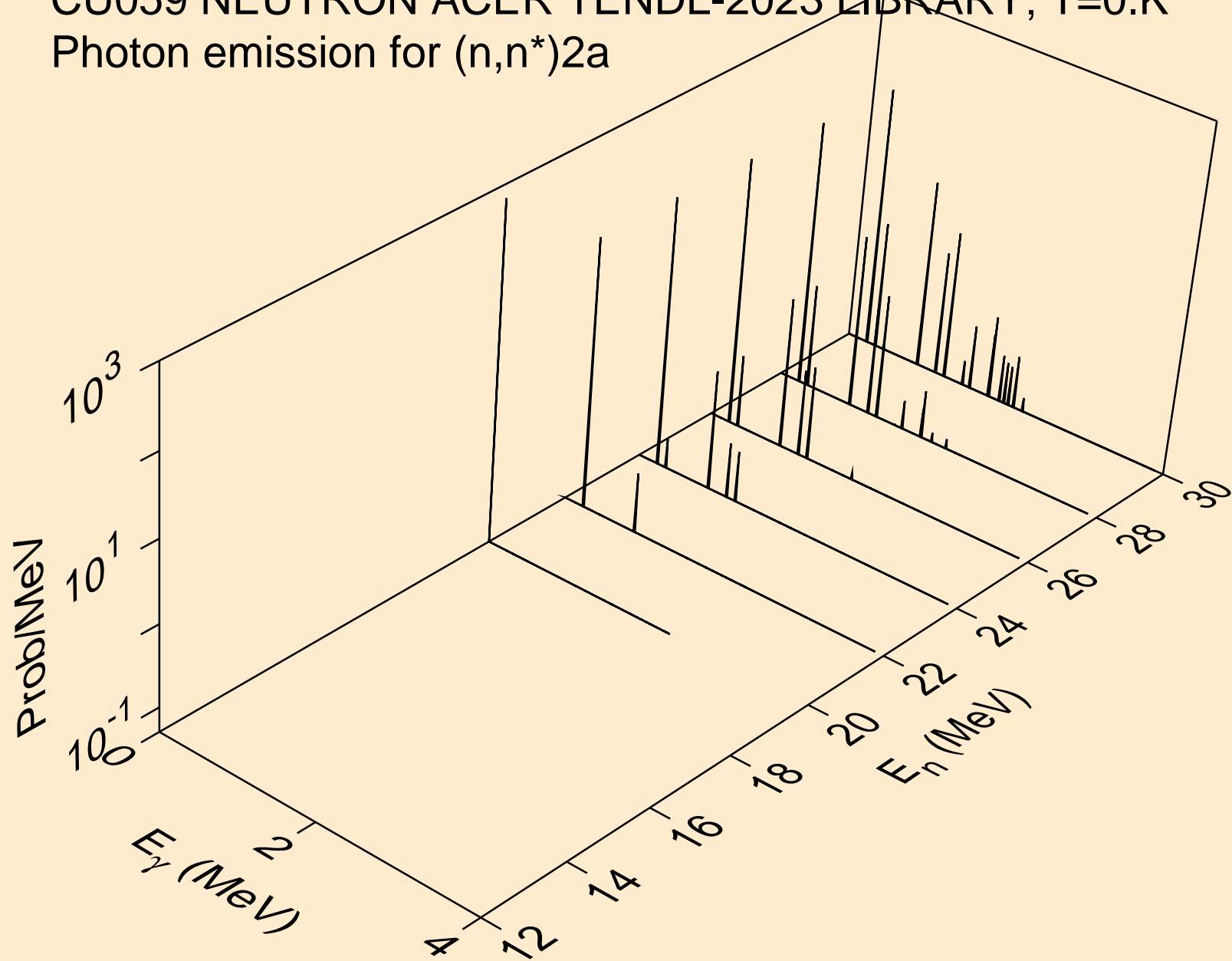
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Photon emission for (n,2n)a



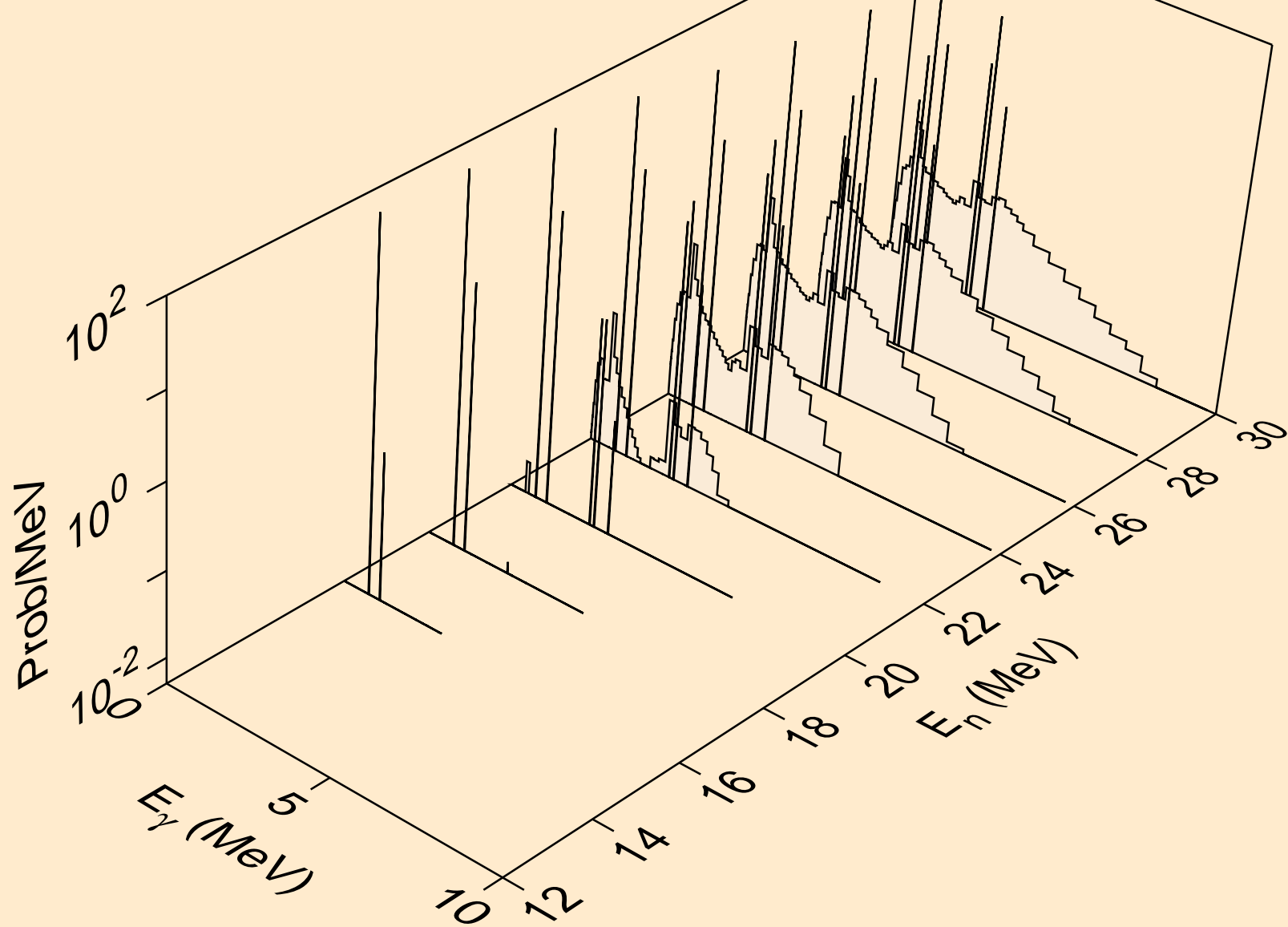
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

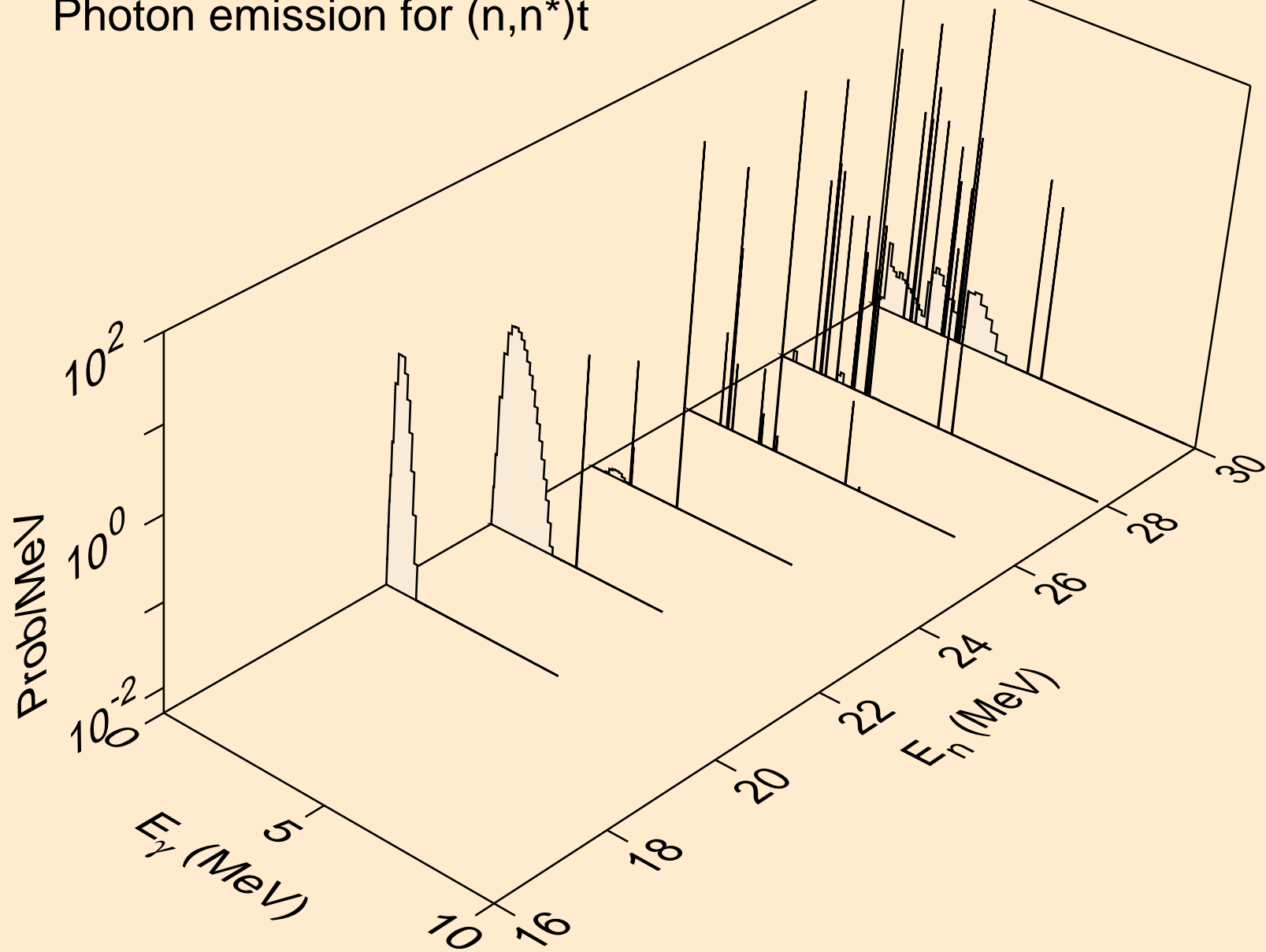


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Photon emission for (n,n\*)d

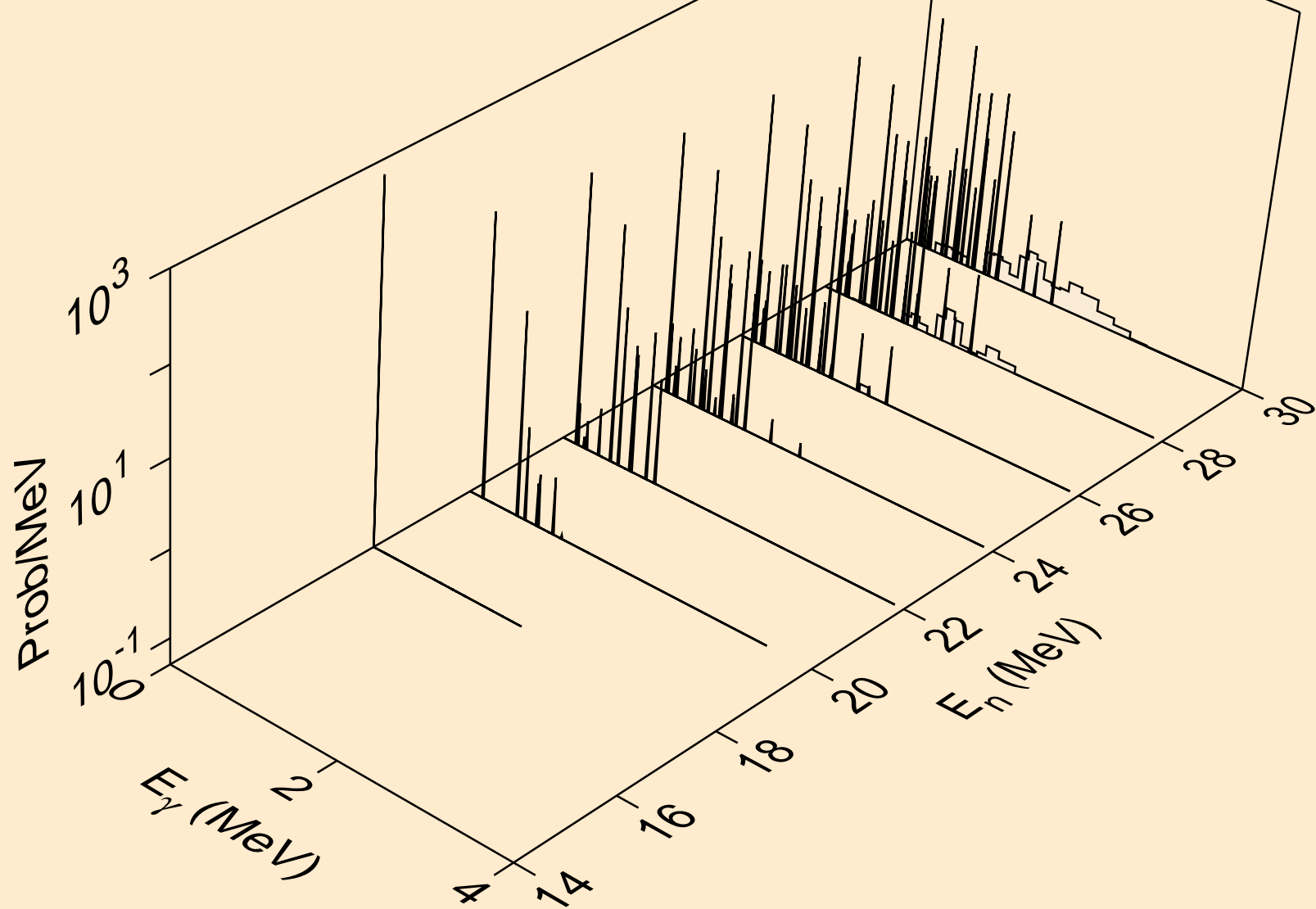




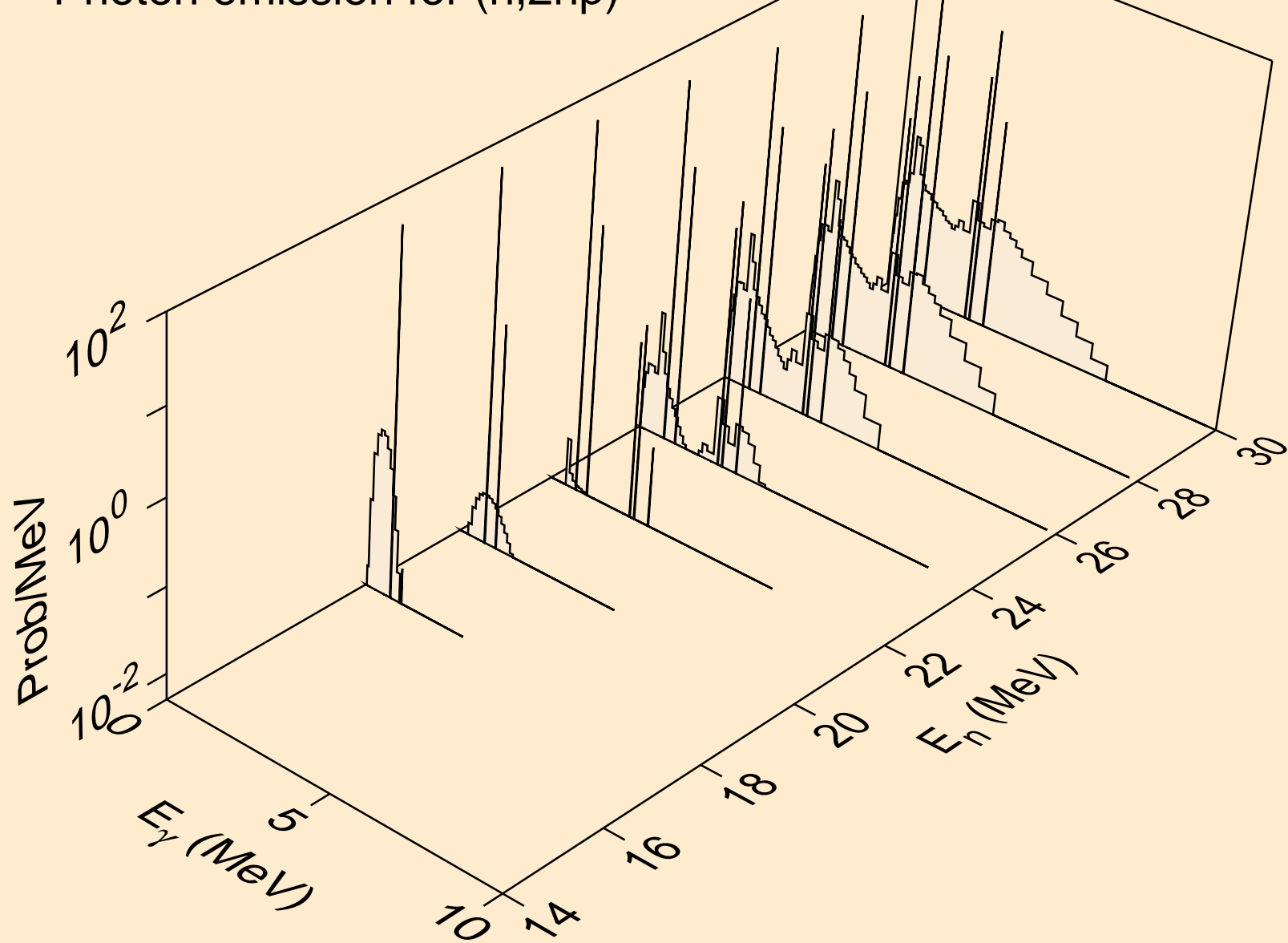
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Photon emission for (n,n\*)t



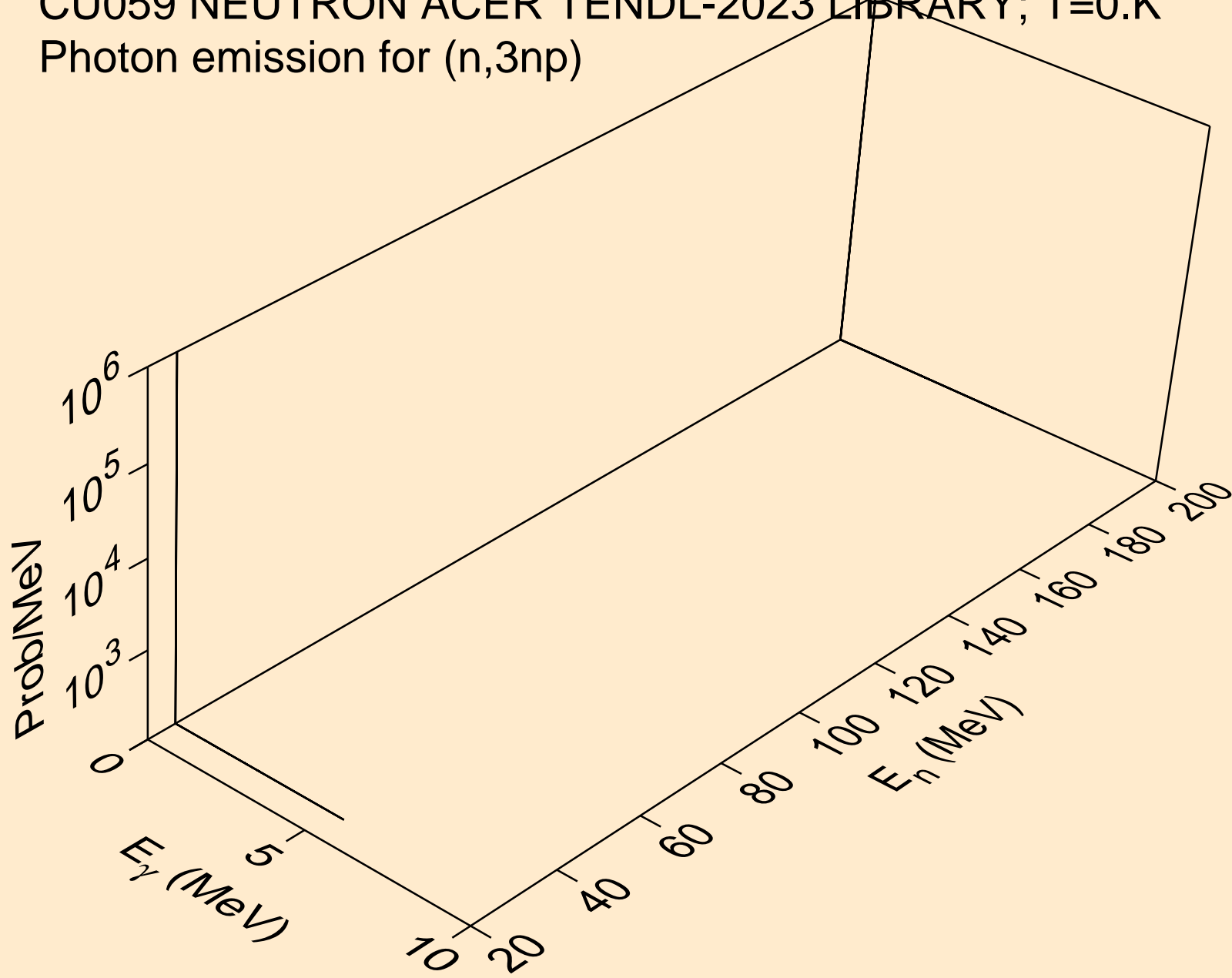
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



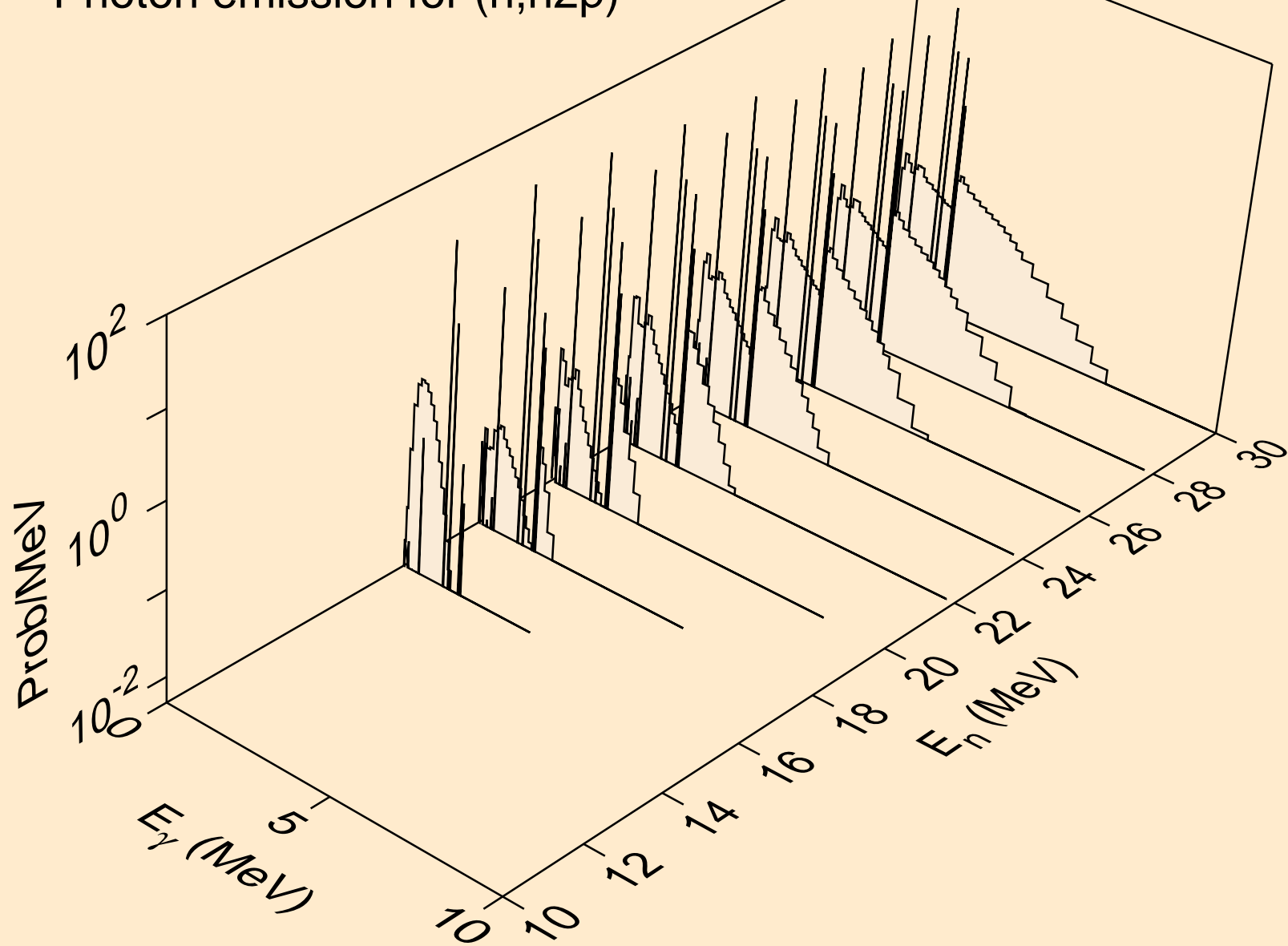
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Photon emission for (n,2np)



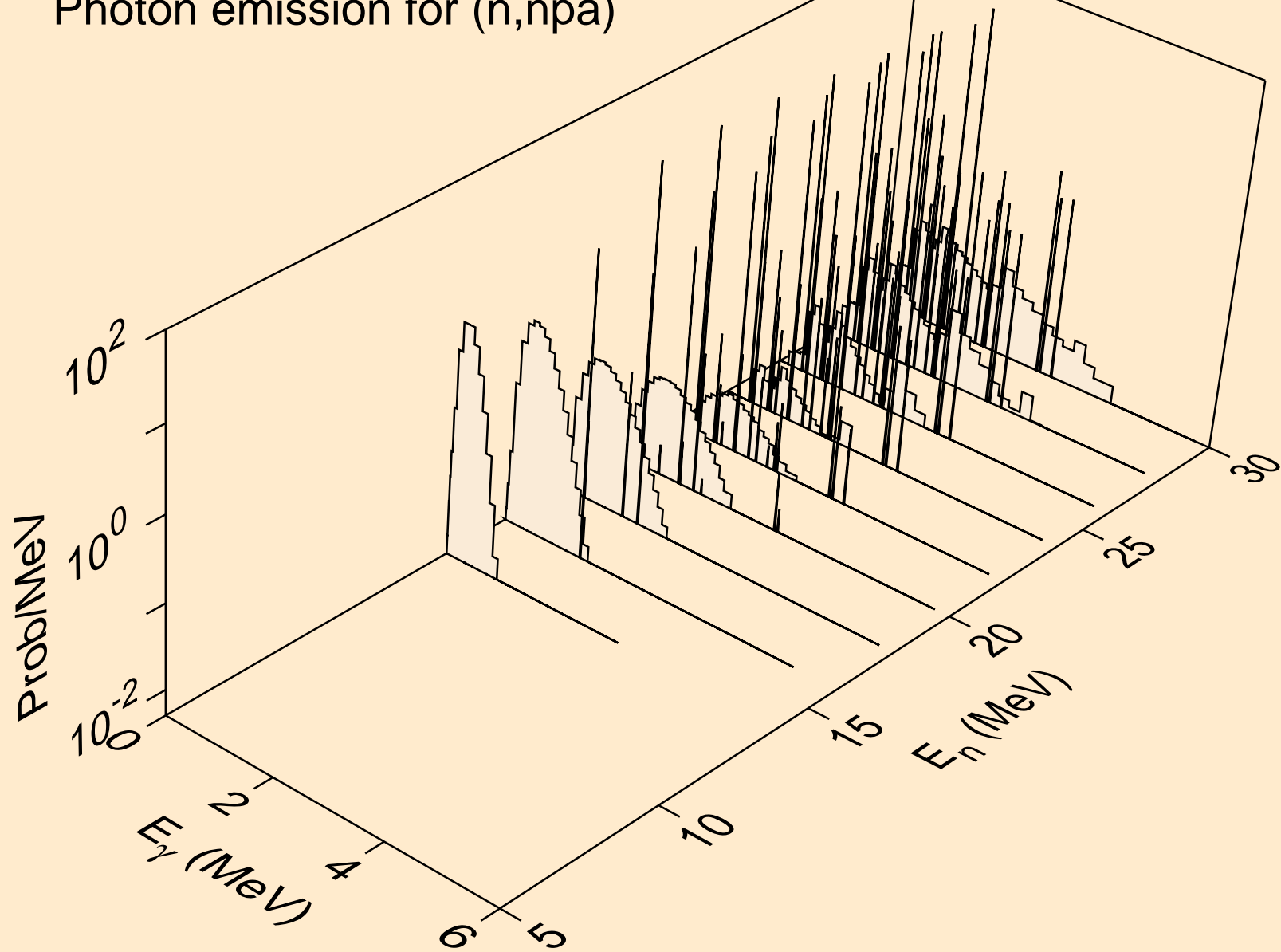
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Photon emission for (n,3np)



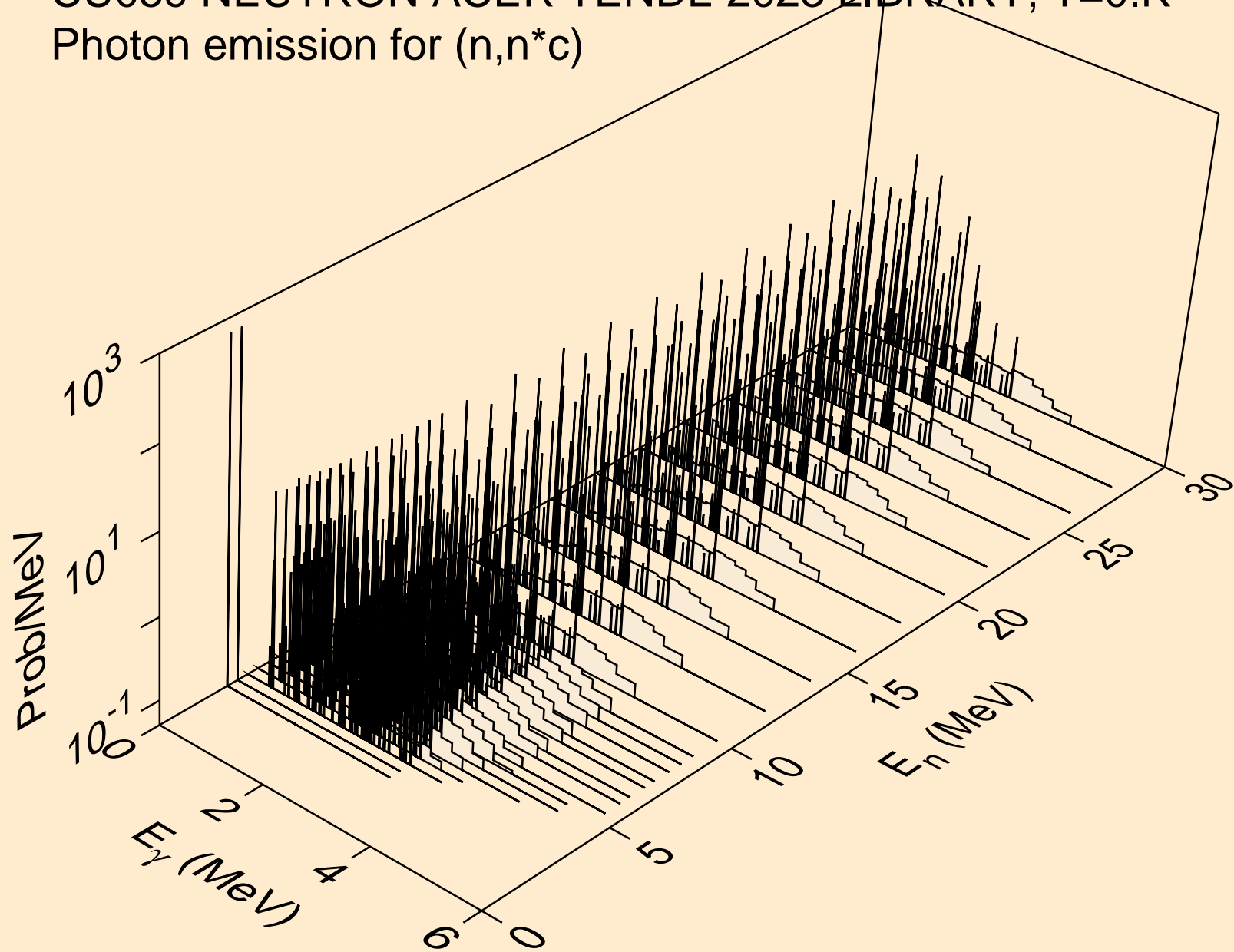
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Photon emission for (n,n2p)



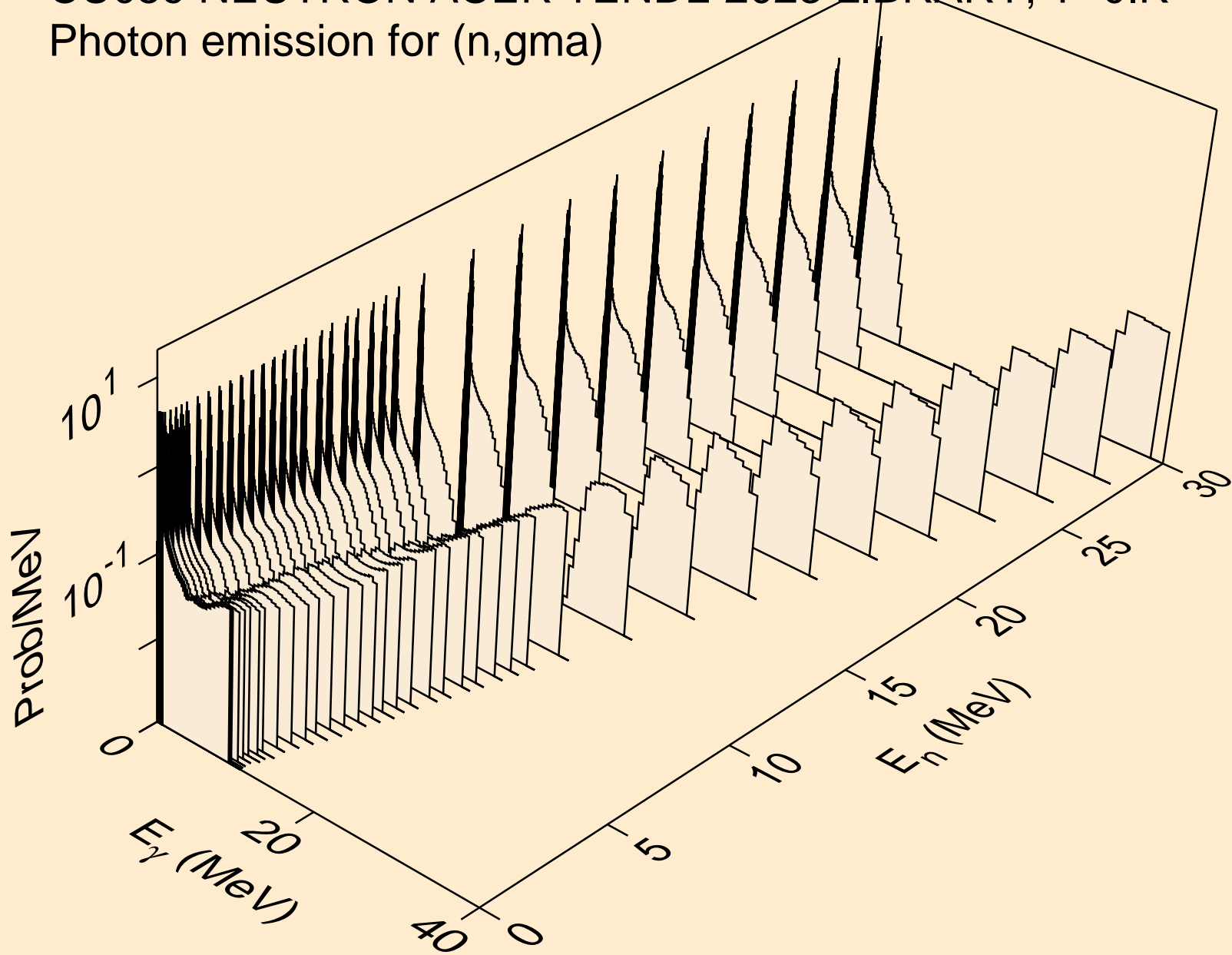
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)

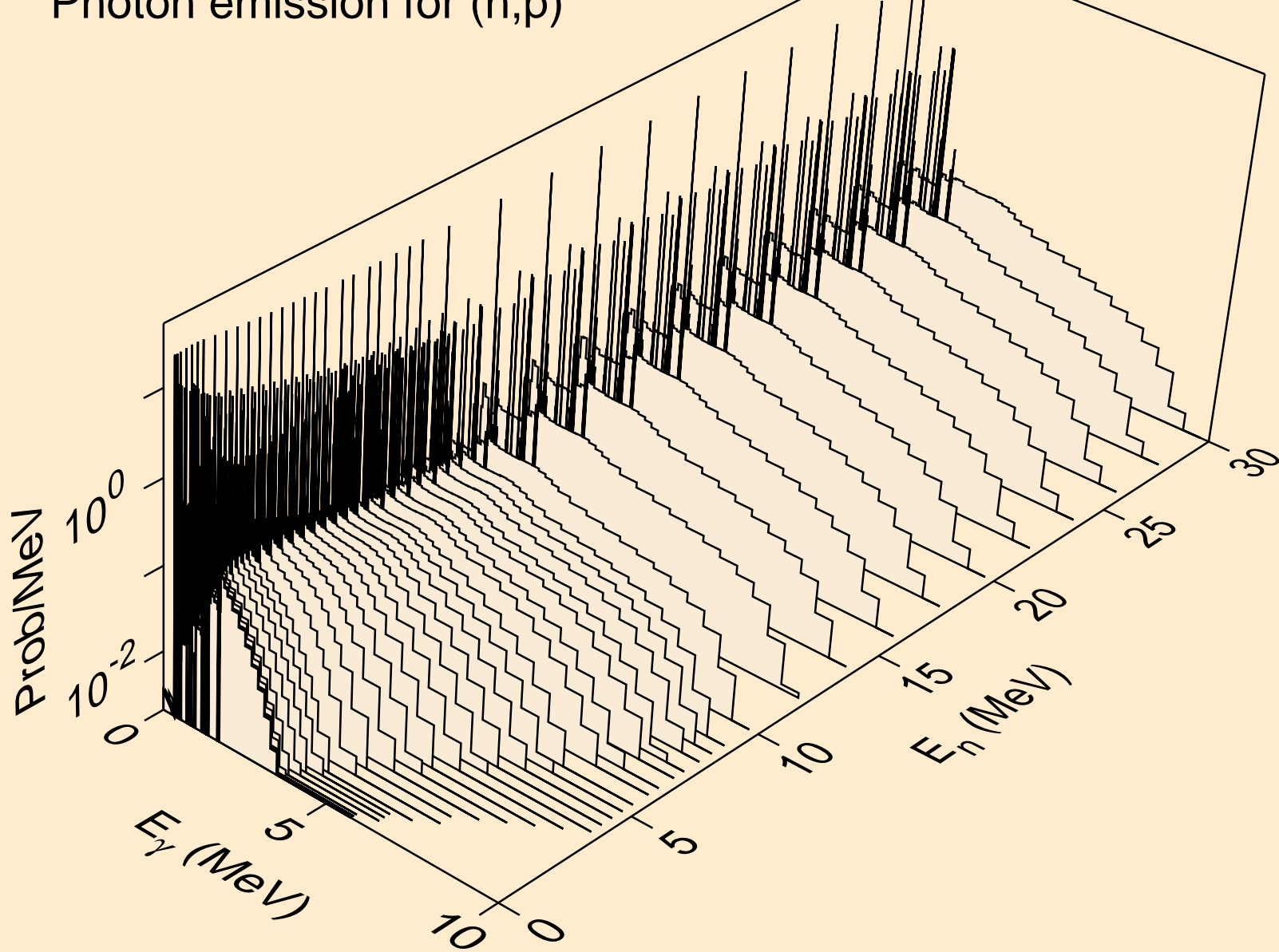


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Photon emission for (n,gma)

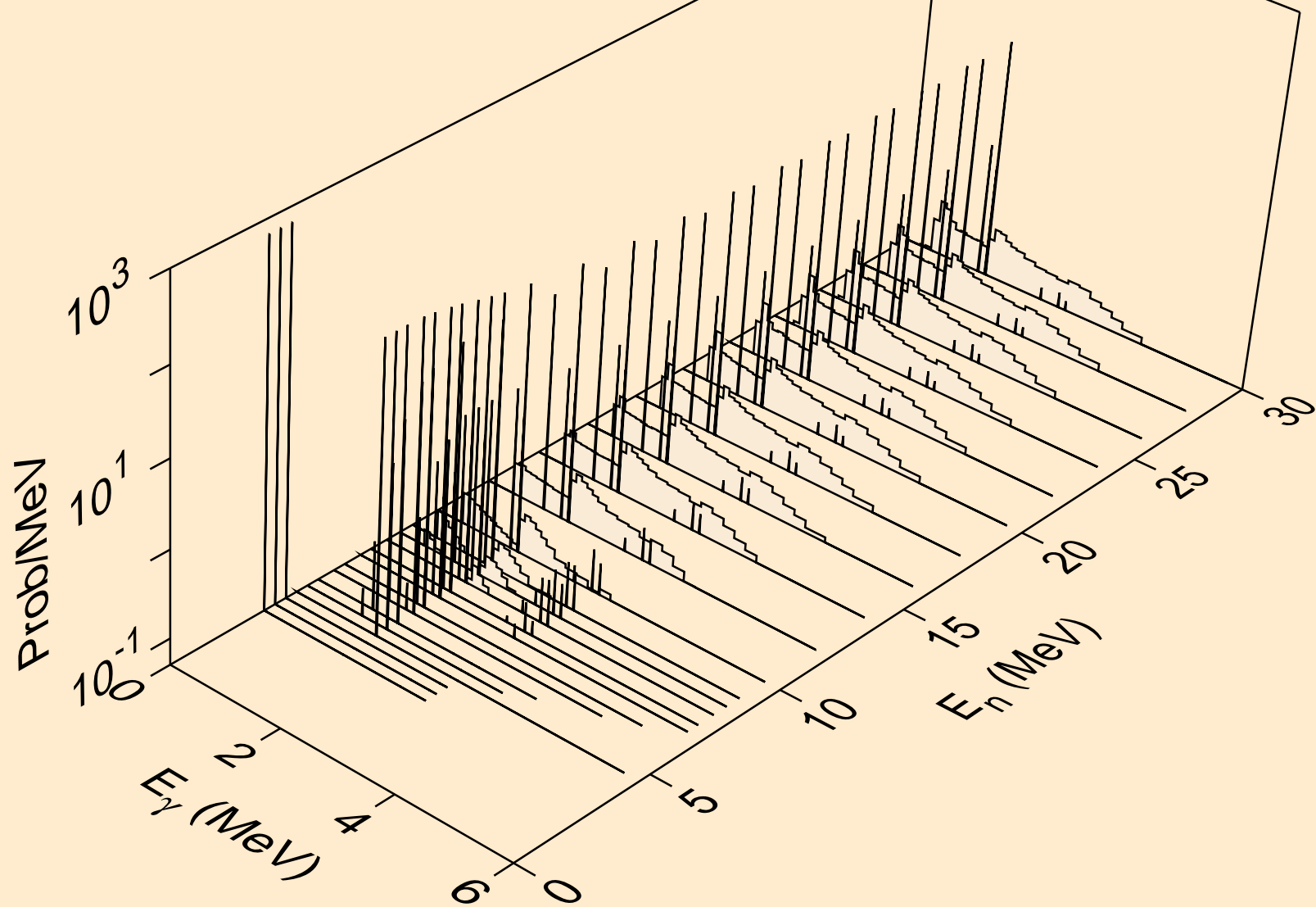




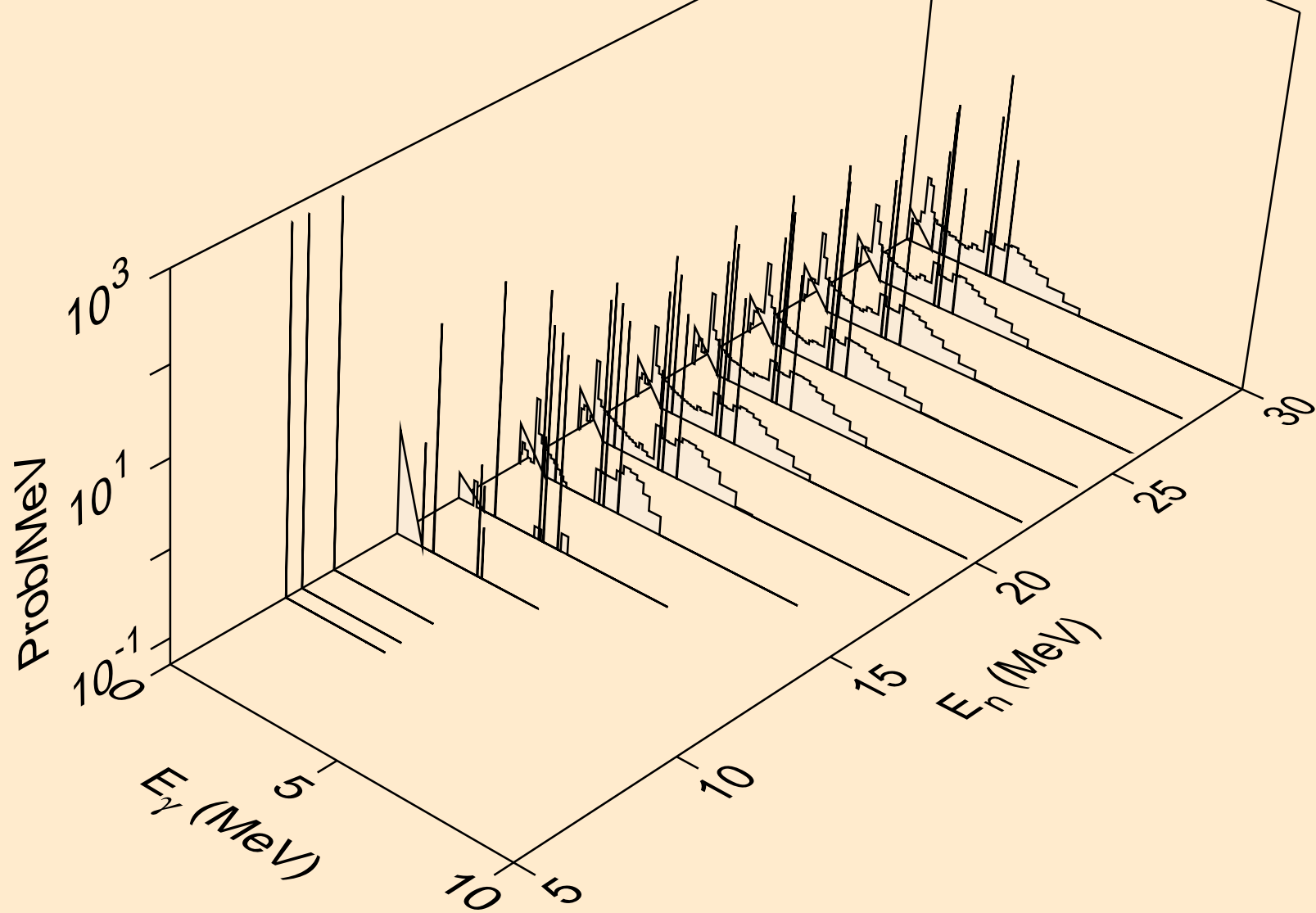
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Photon emission for (n,p)



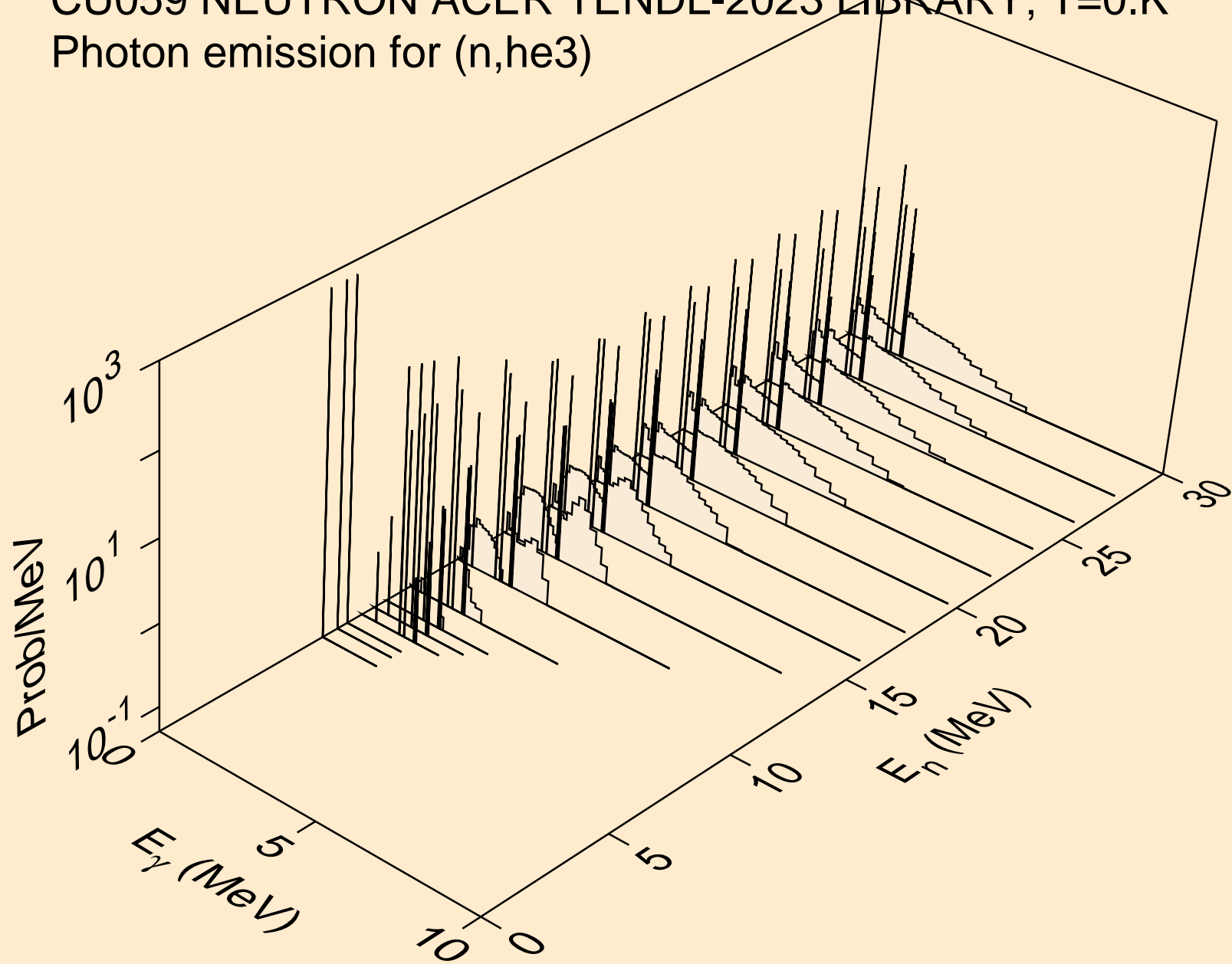
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



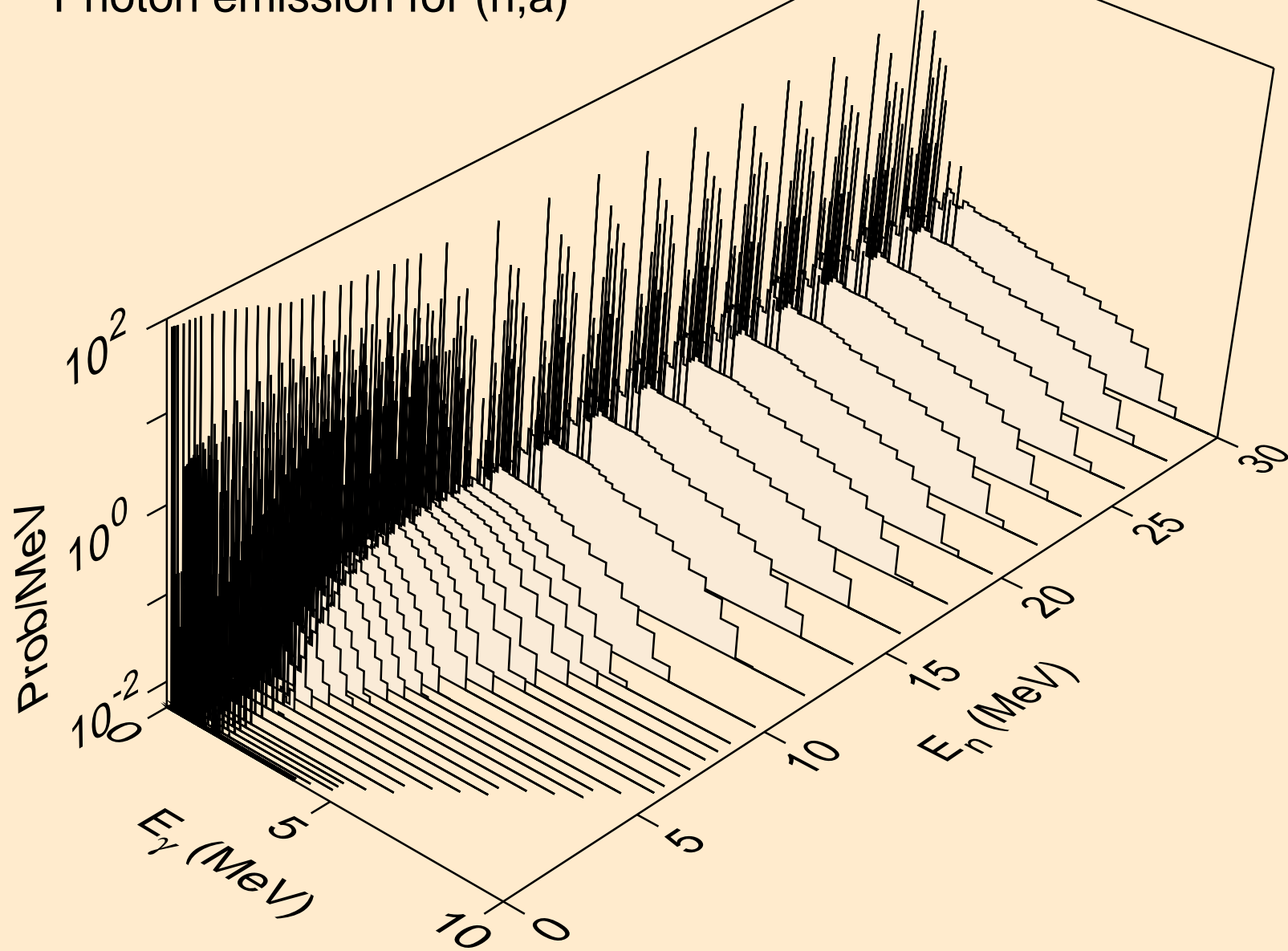
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Photon emission for (n,t)



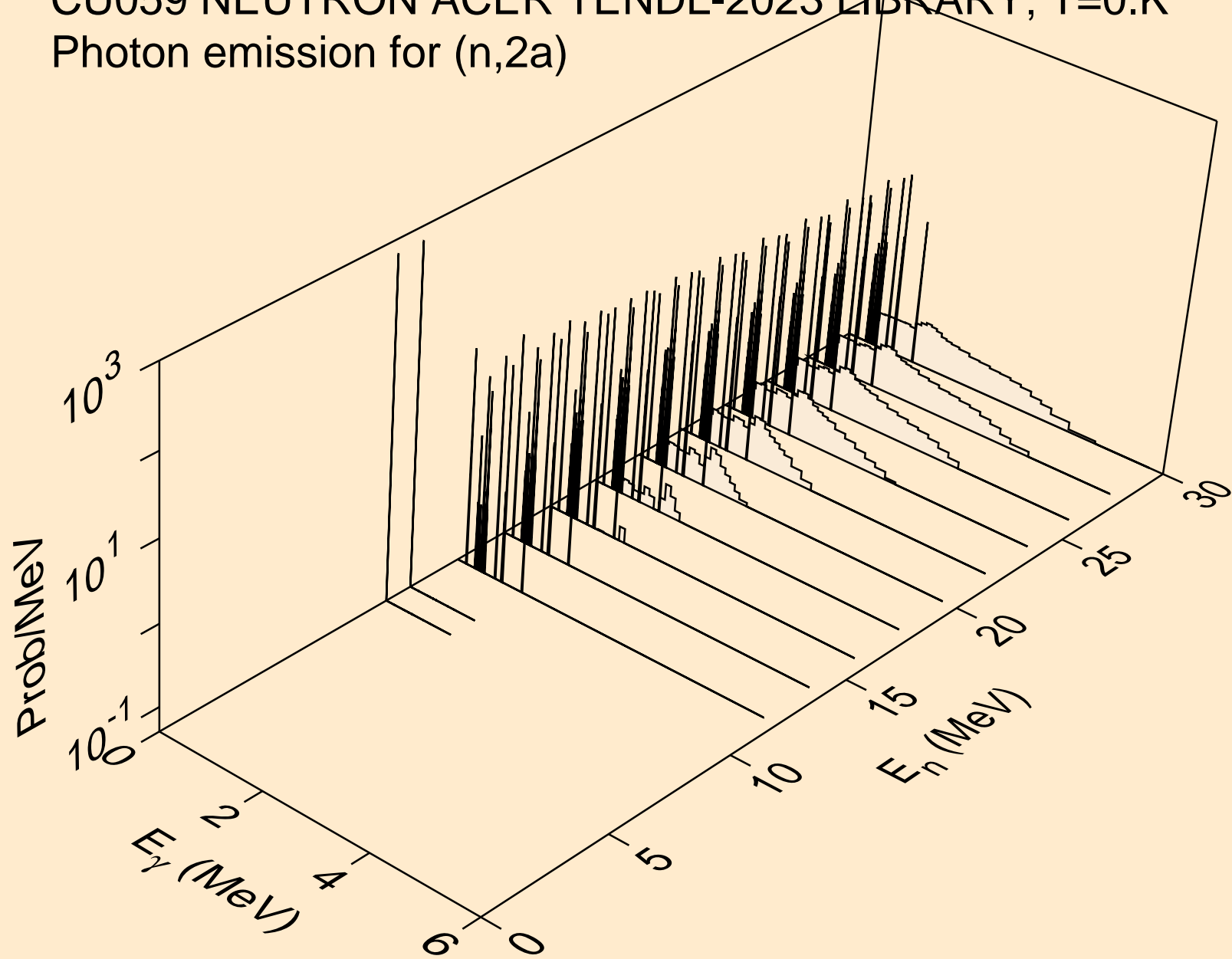
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Photon emission for (n,he3)



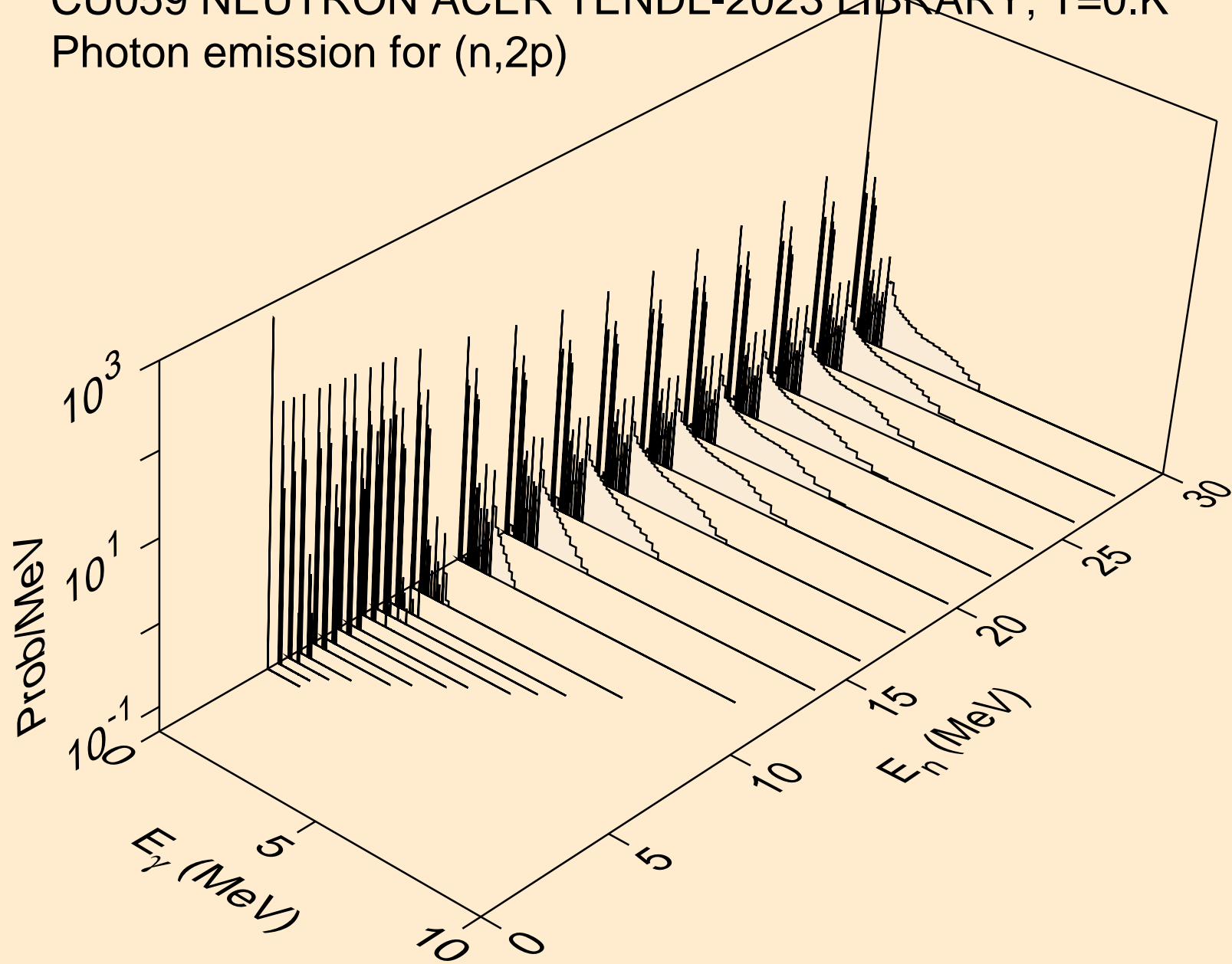
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Photon emission for (n,a)



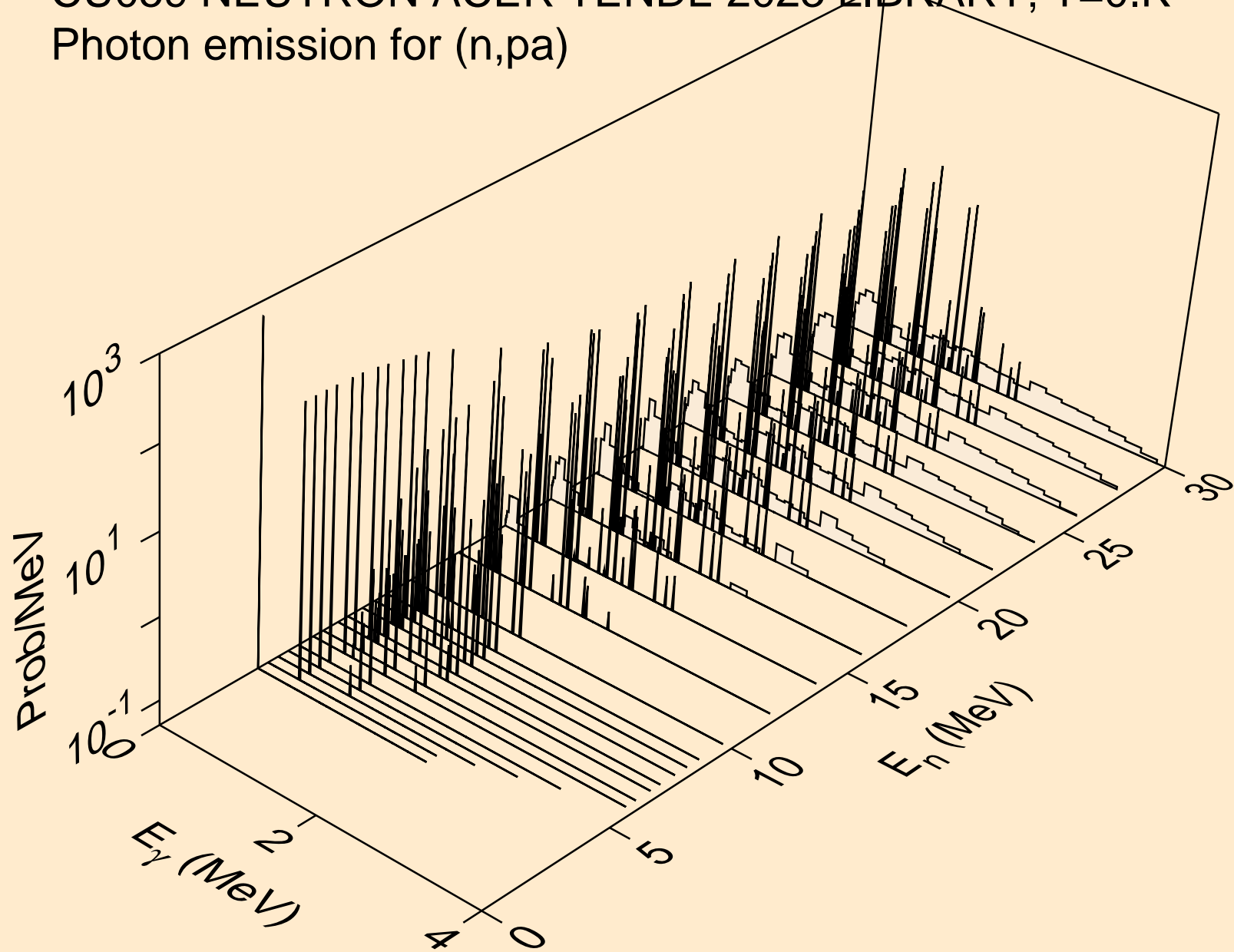
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

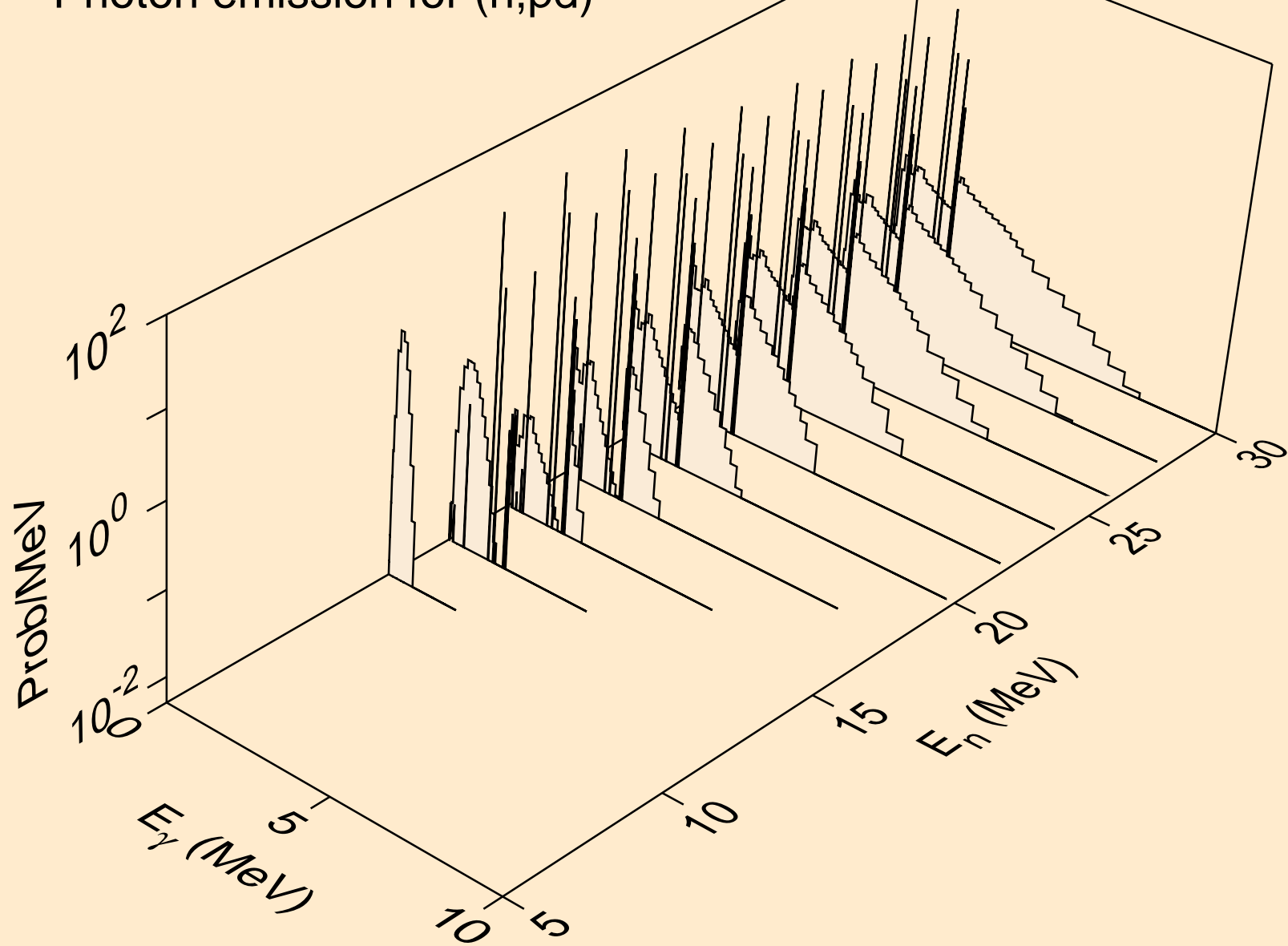


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )

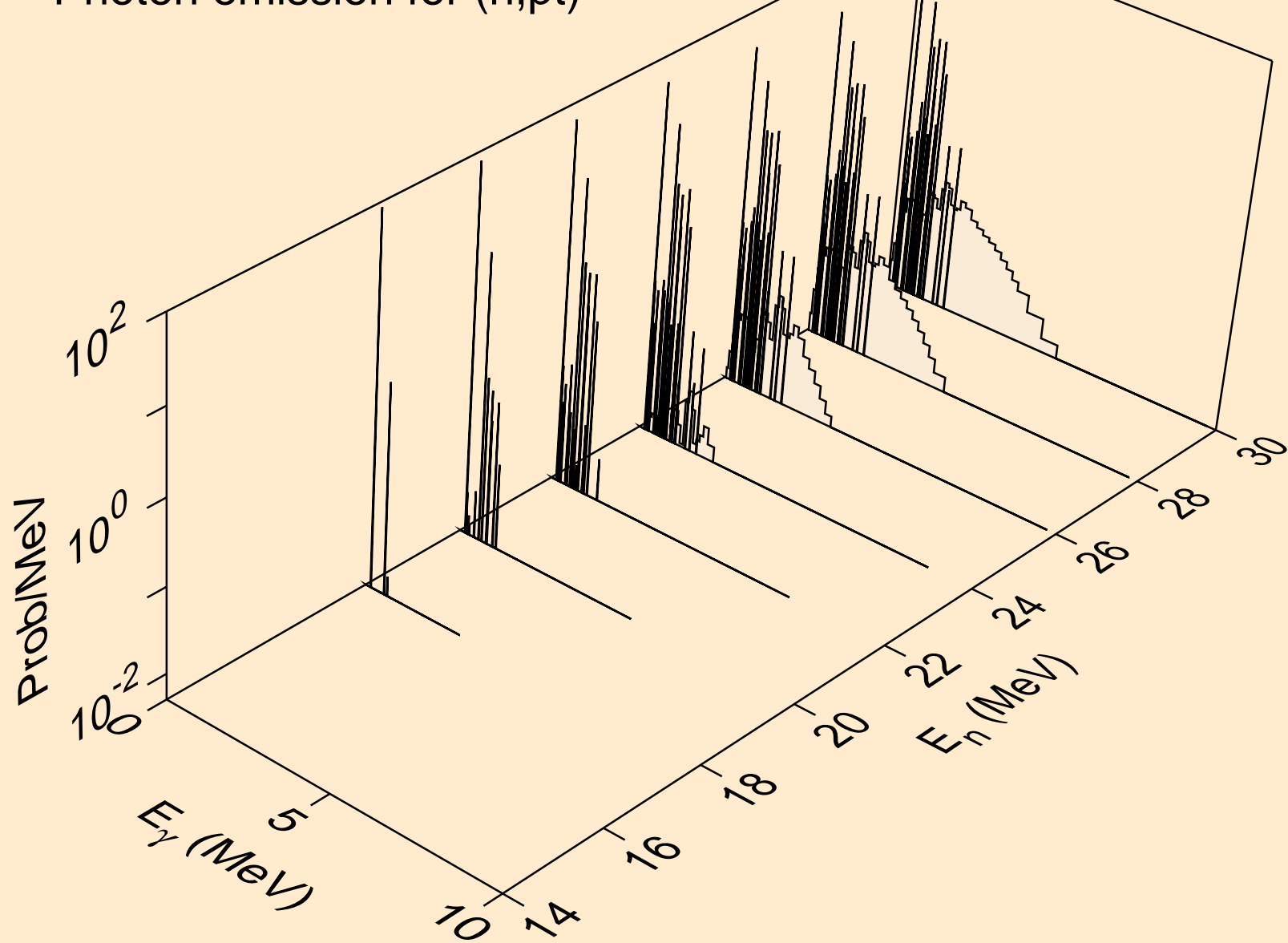




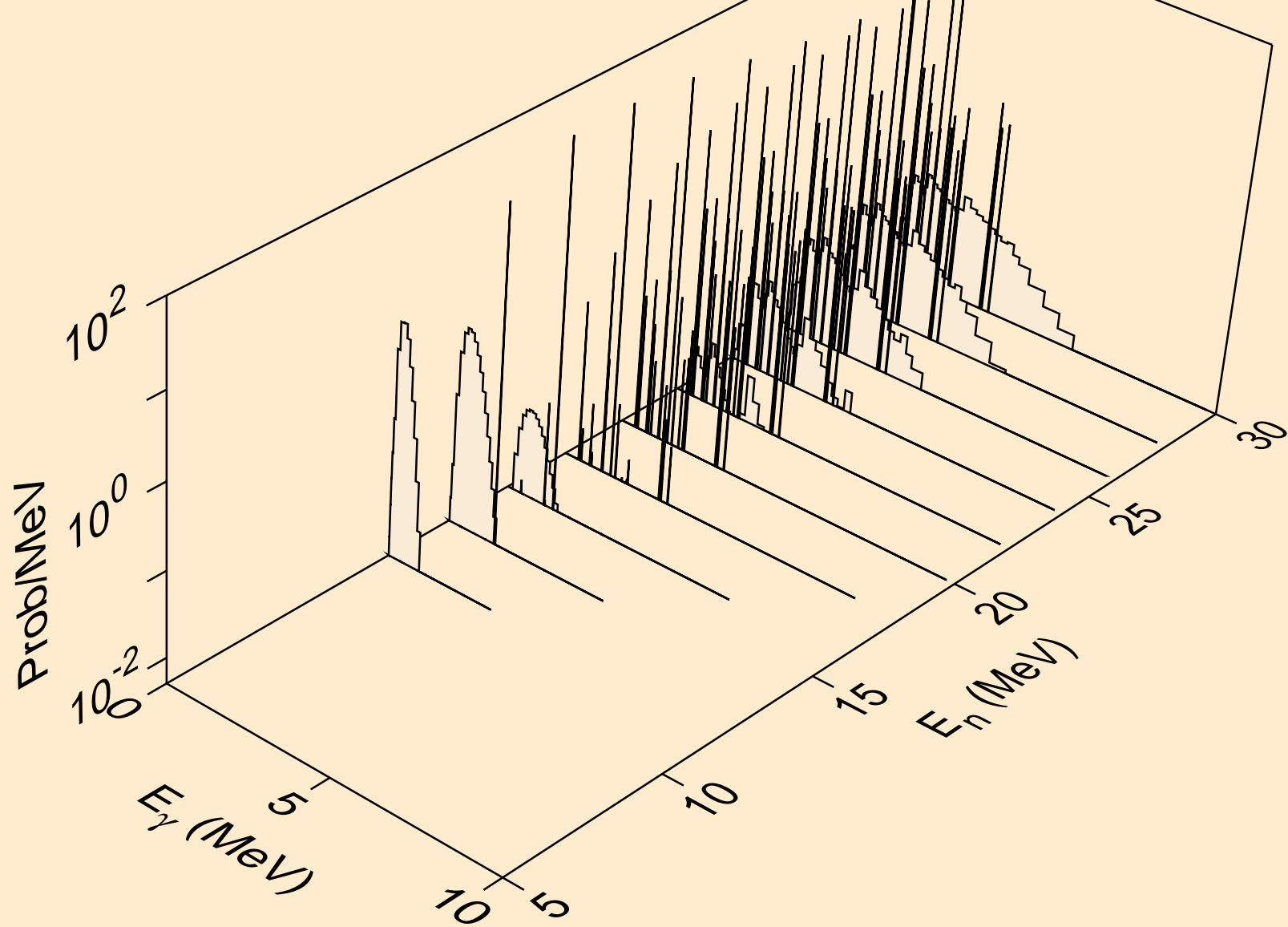
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Photon emission for (n,pd)



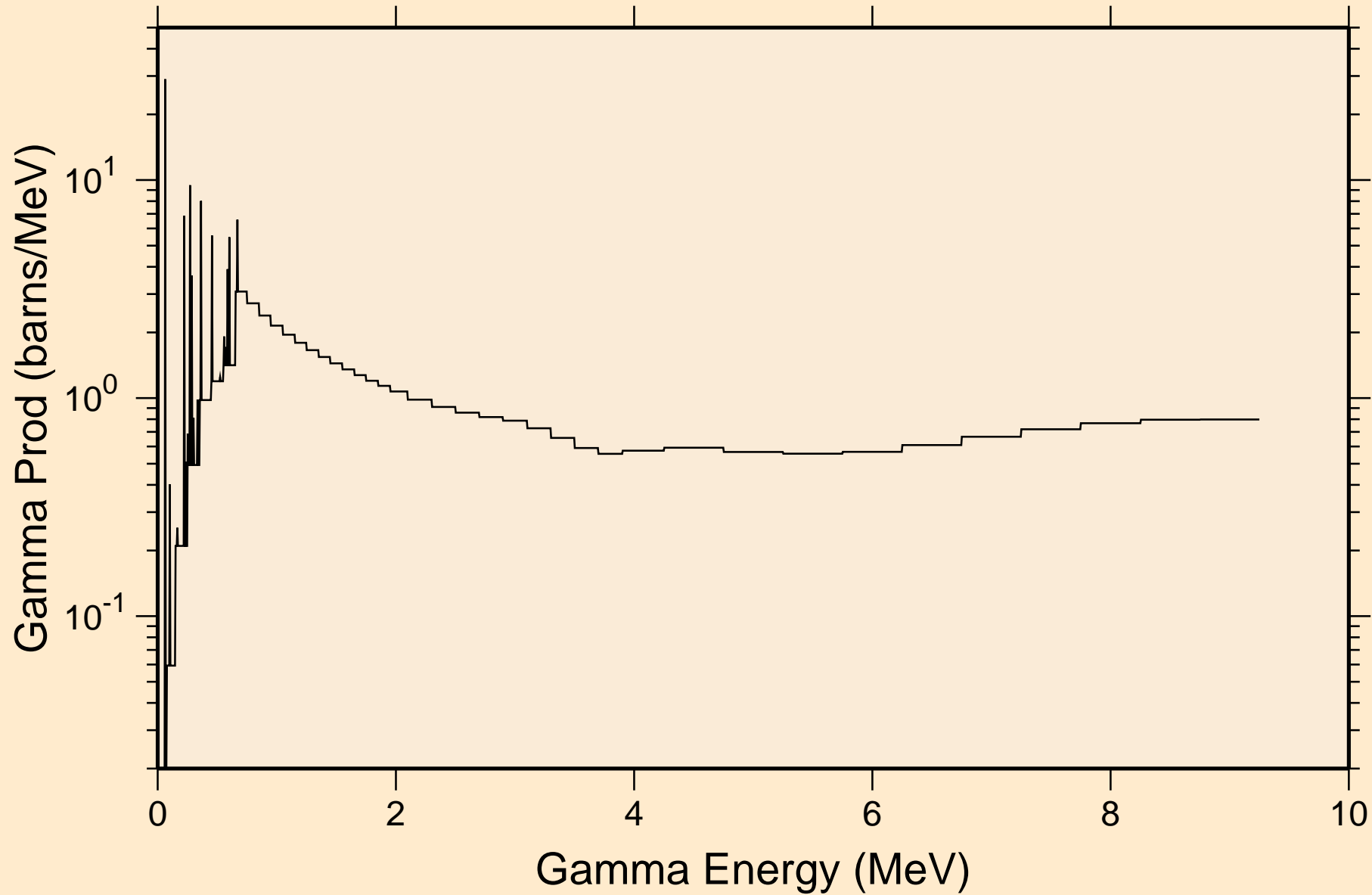
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Photon emission for (n,pt)



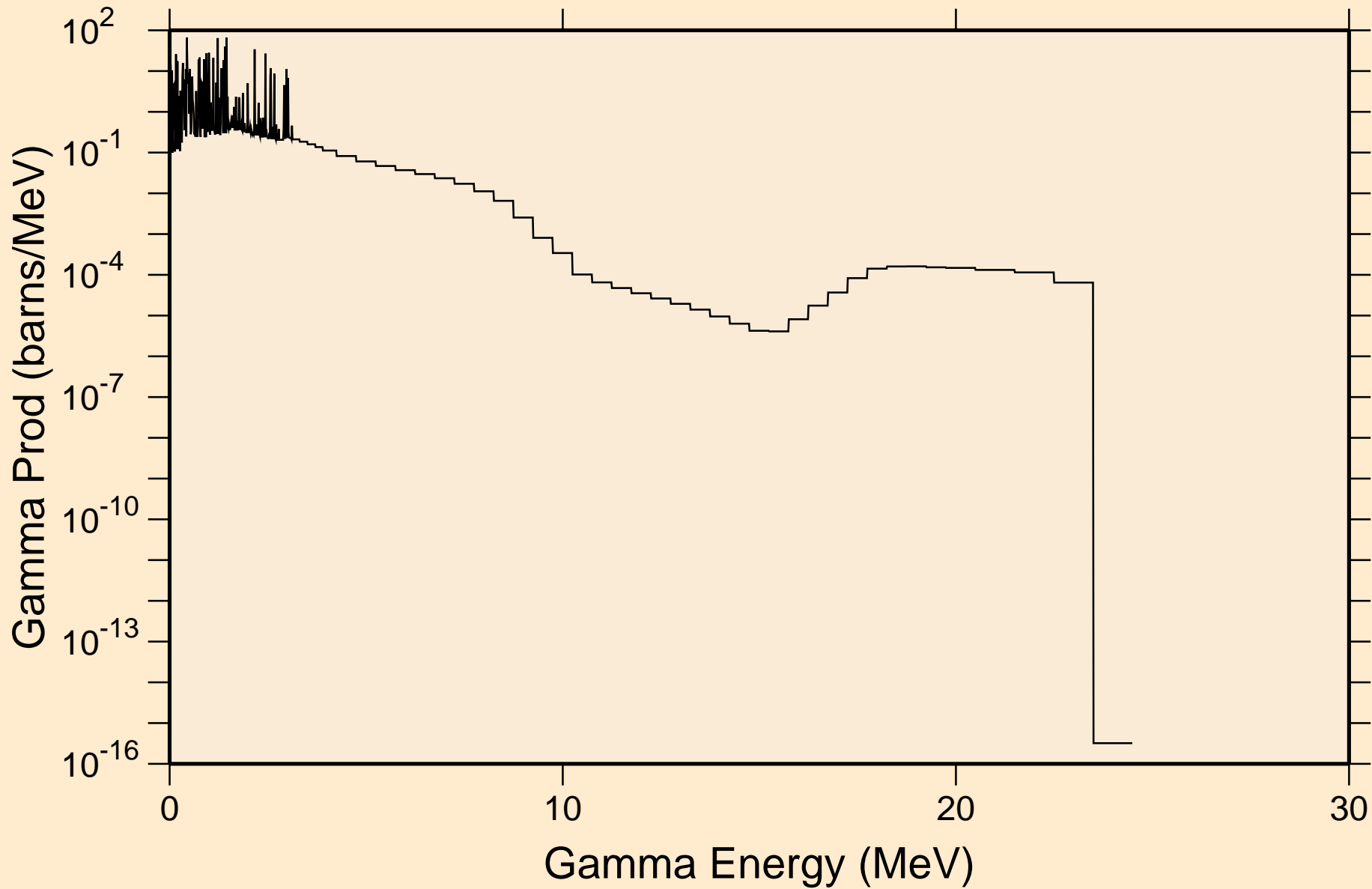
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

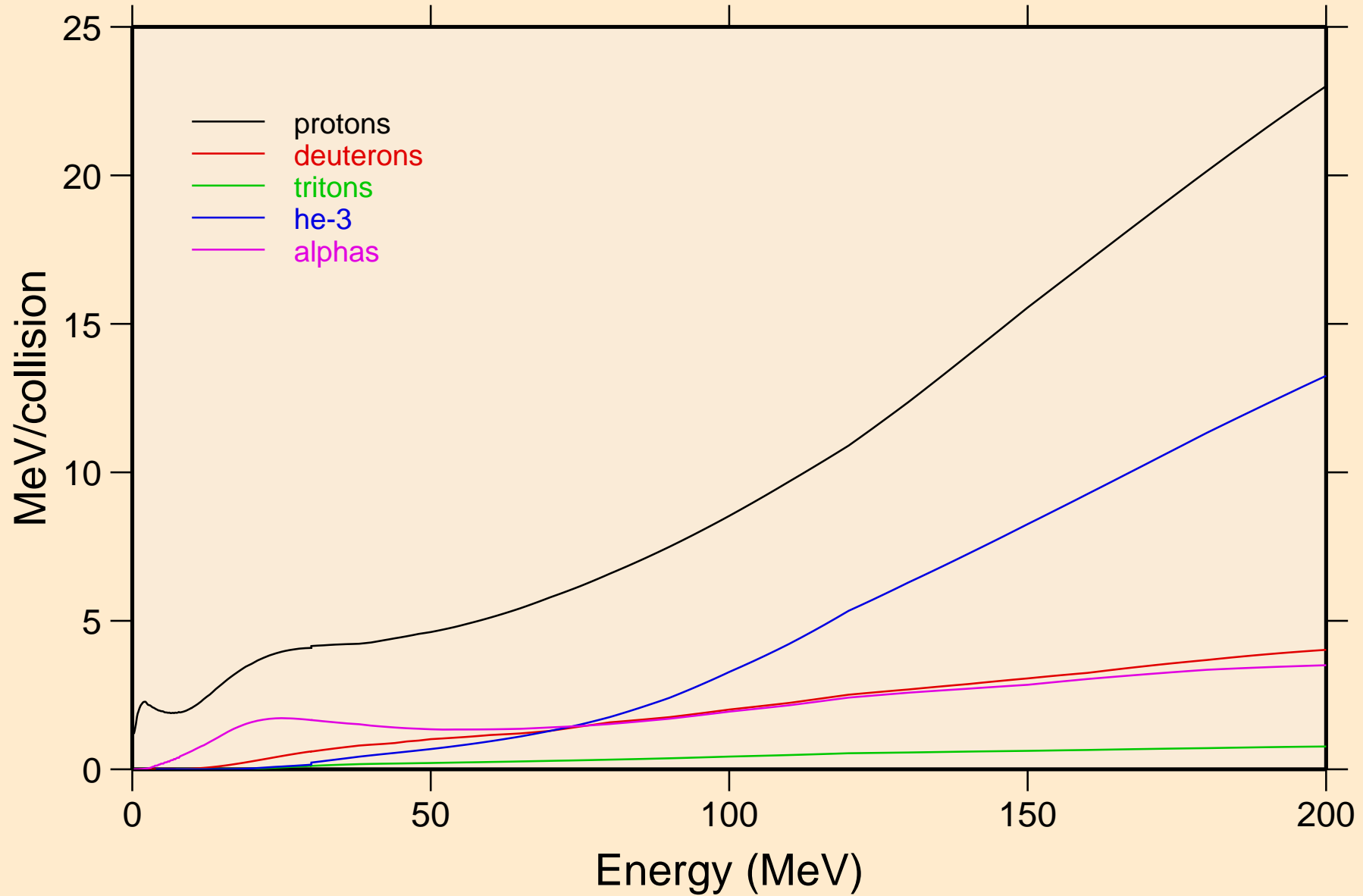


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

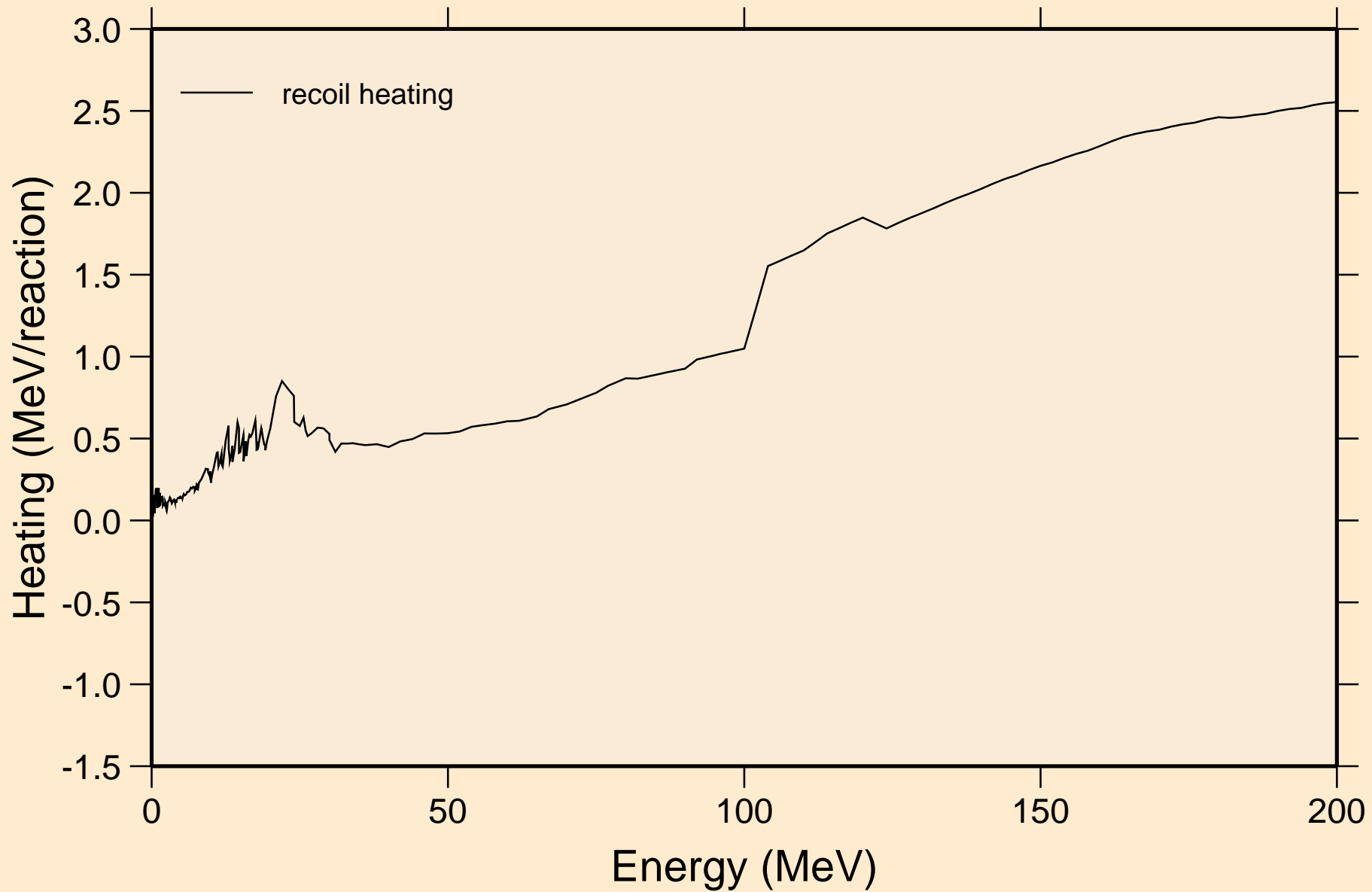


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## Particle heating contributions

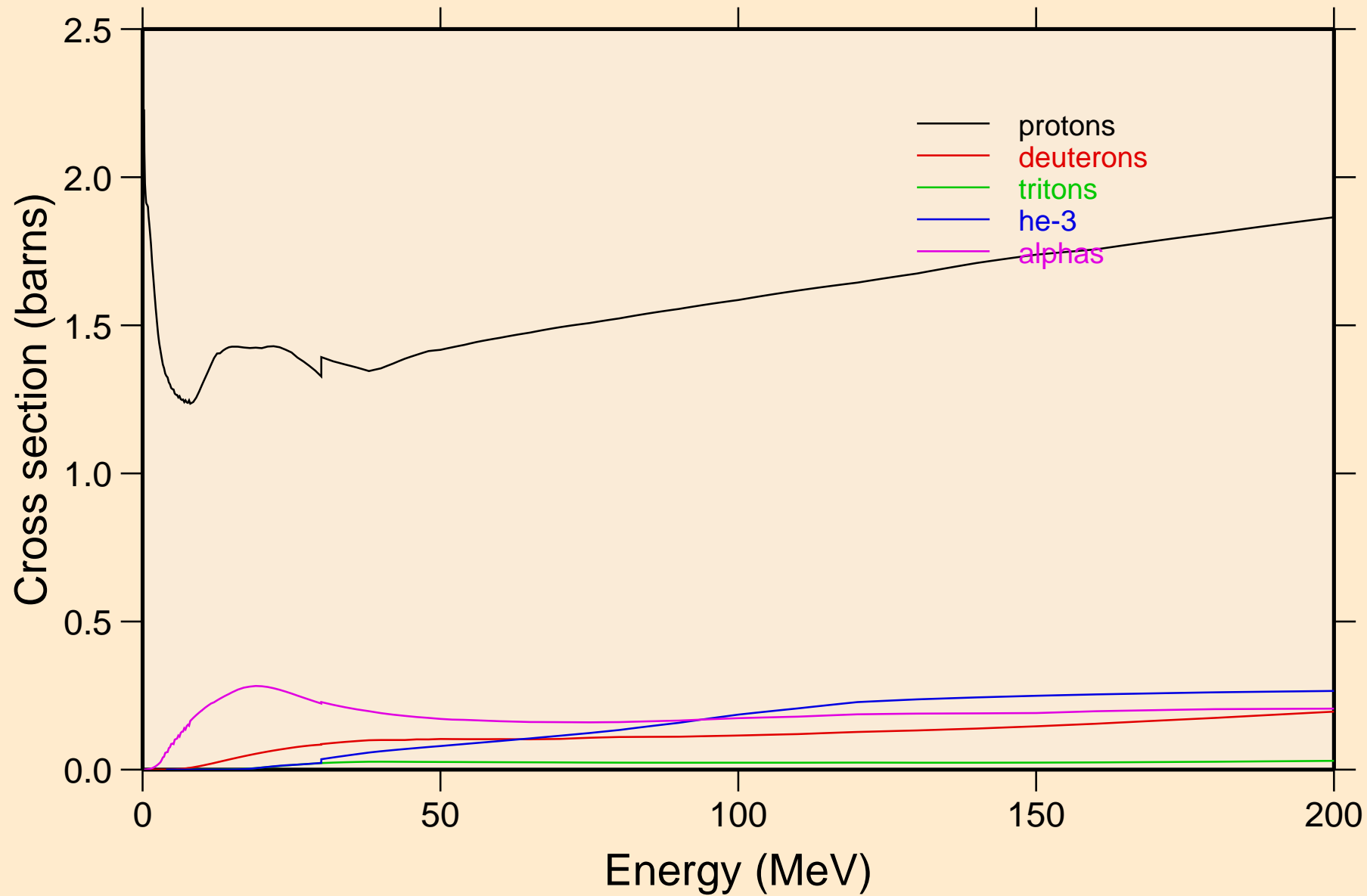


CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



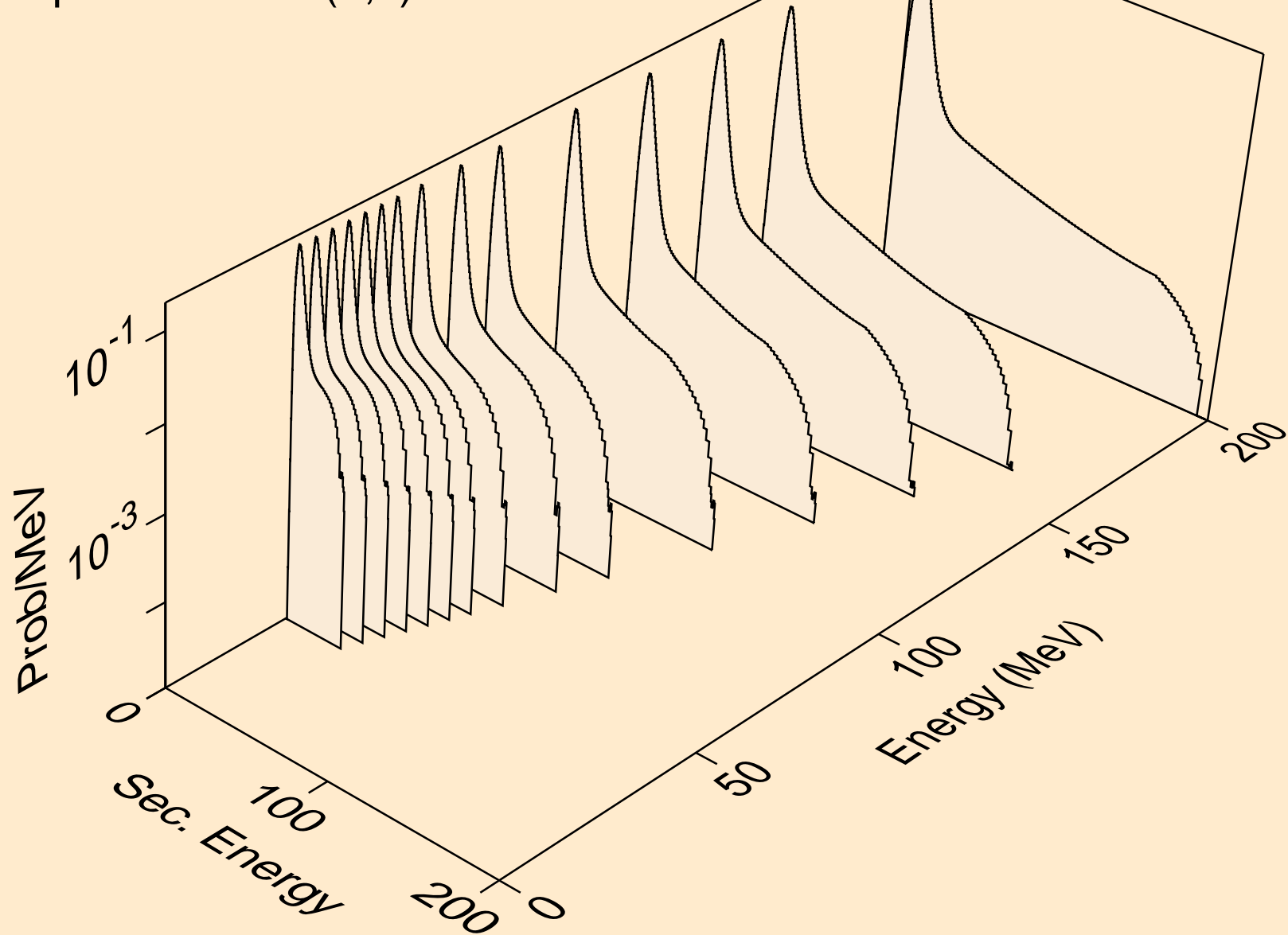
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## Particle production cross sections

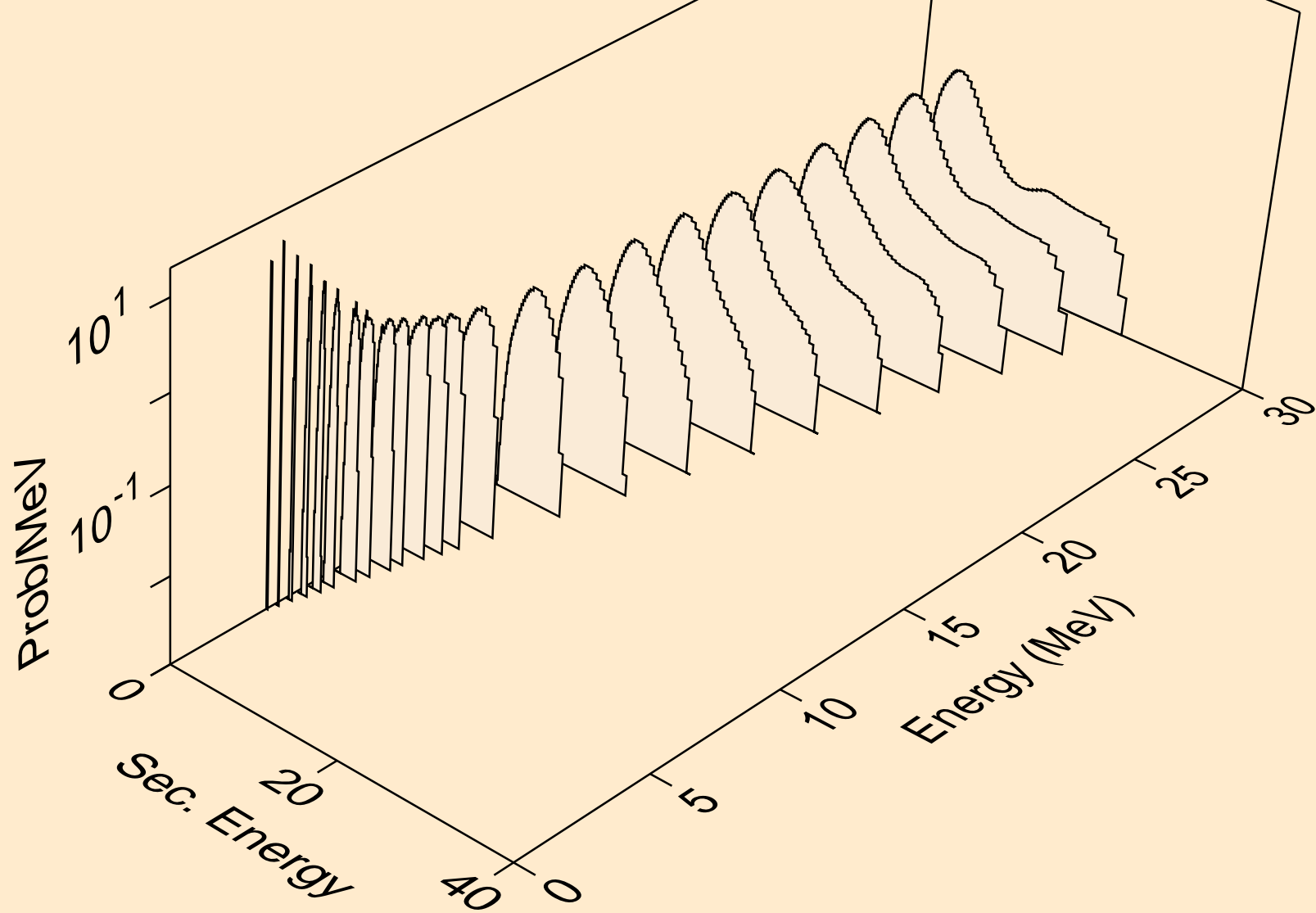




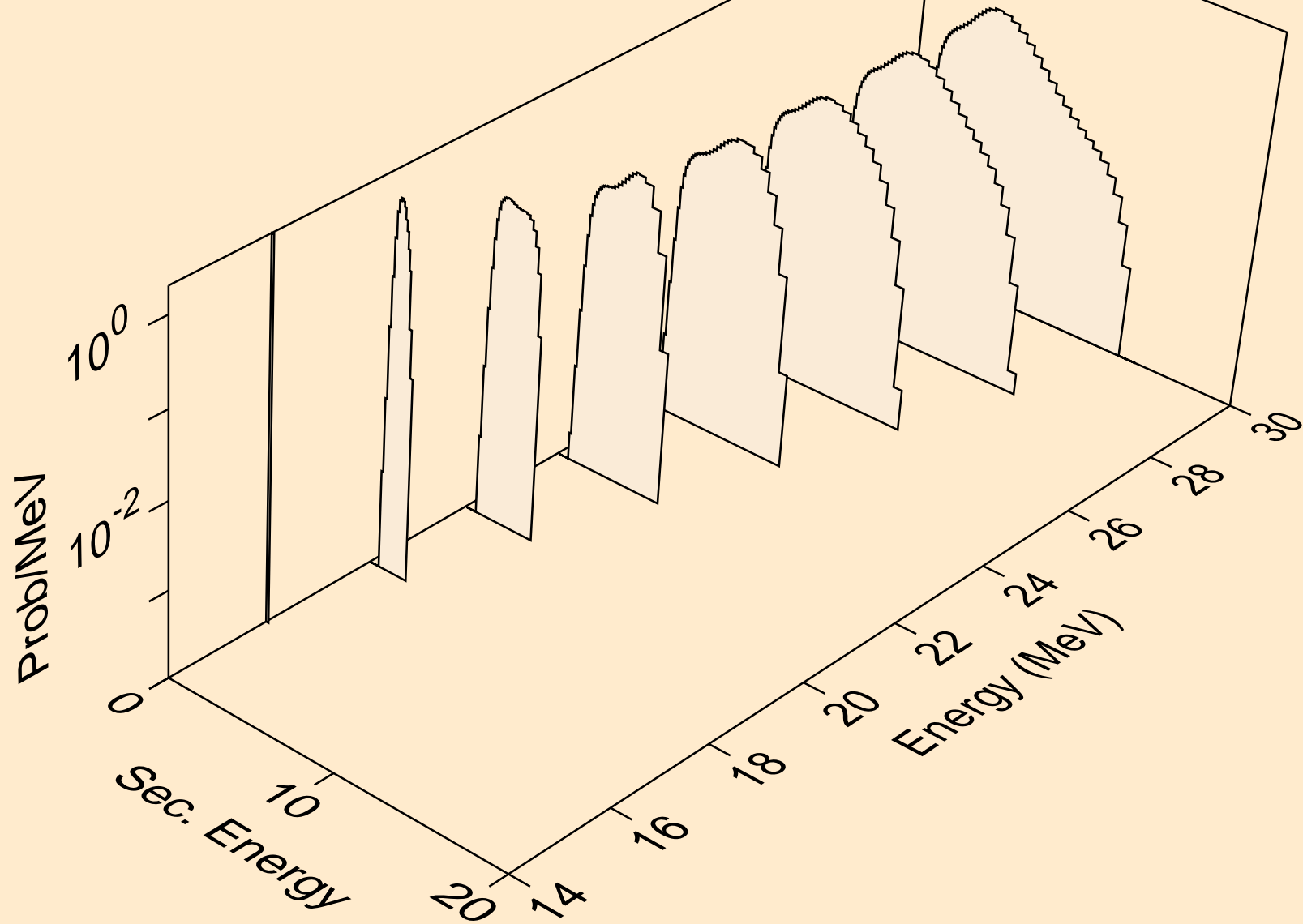
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protons from (n,x)



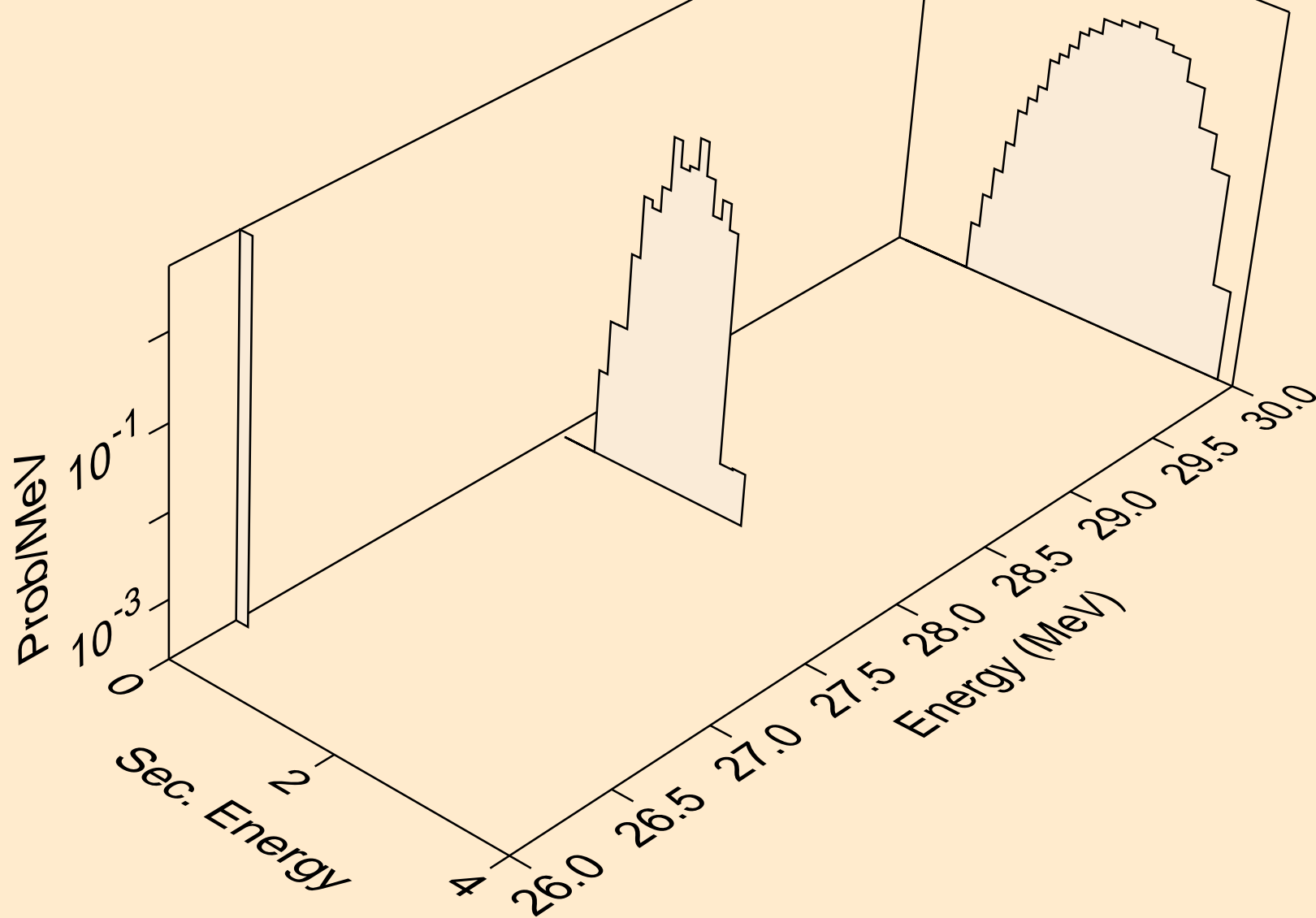
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protons from (n,n\*)p



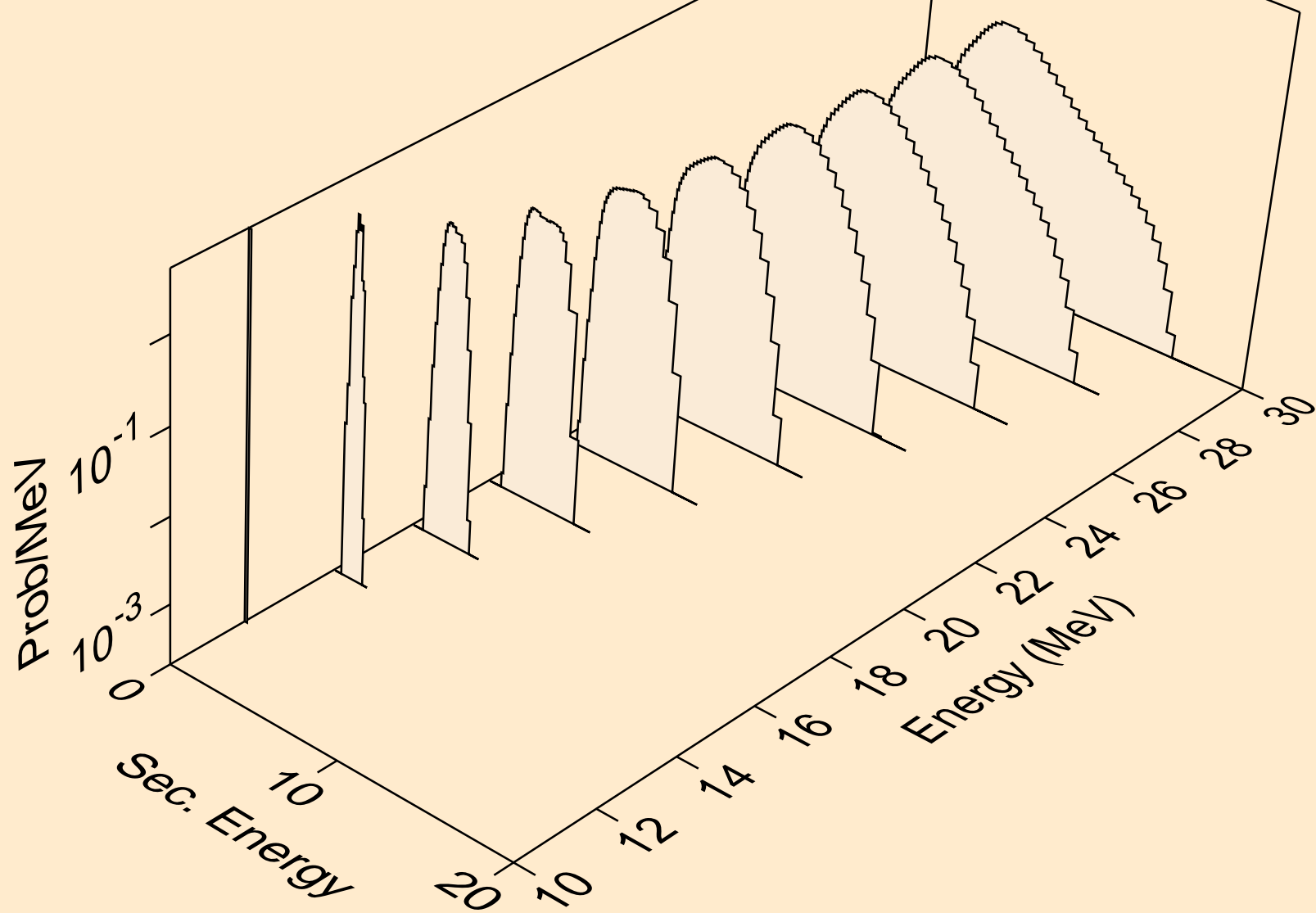
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protons from (n,2np)



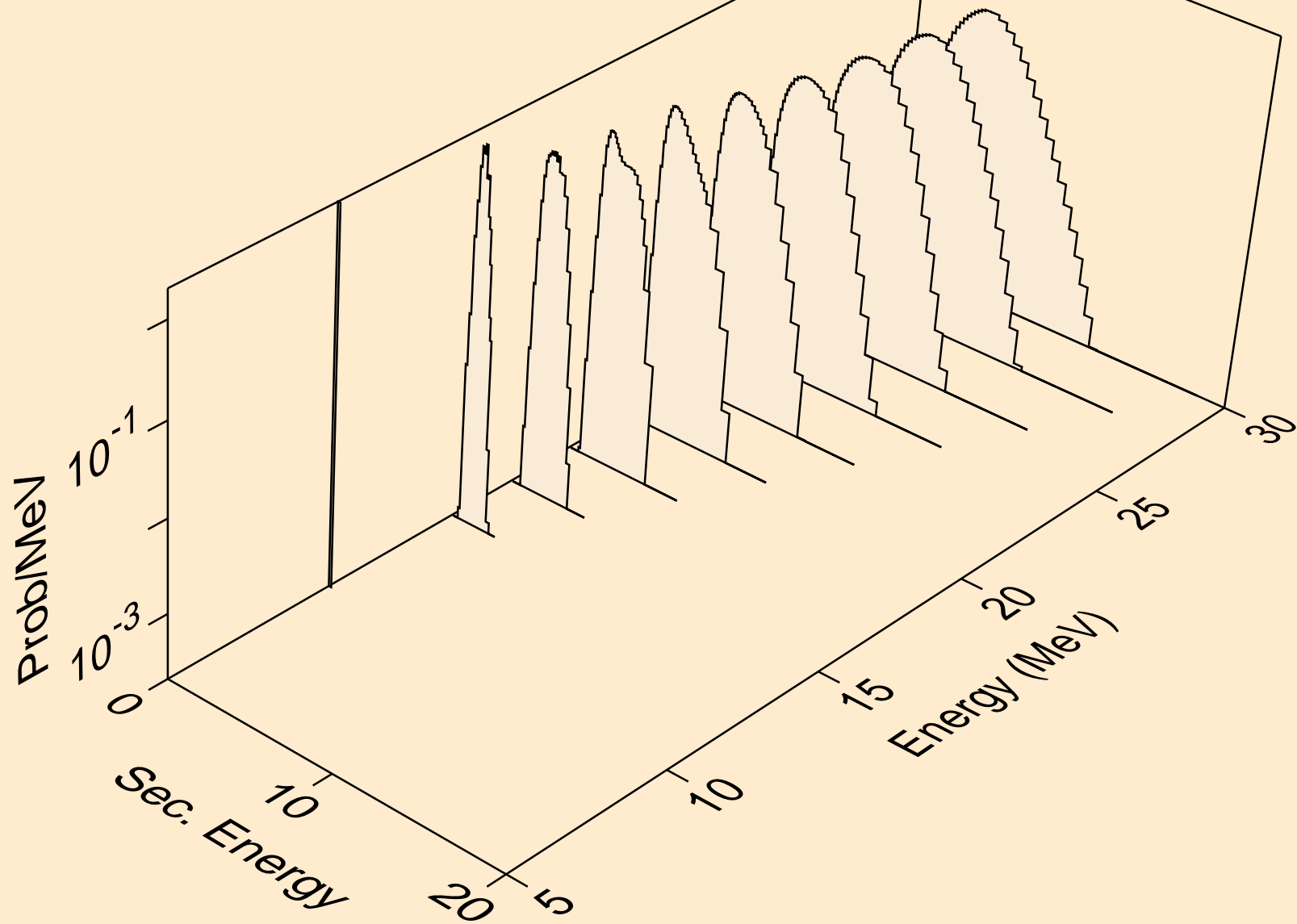
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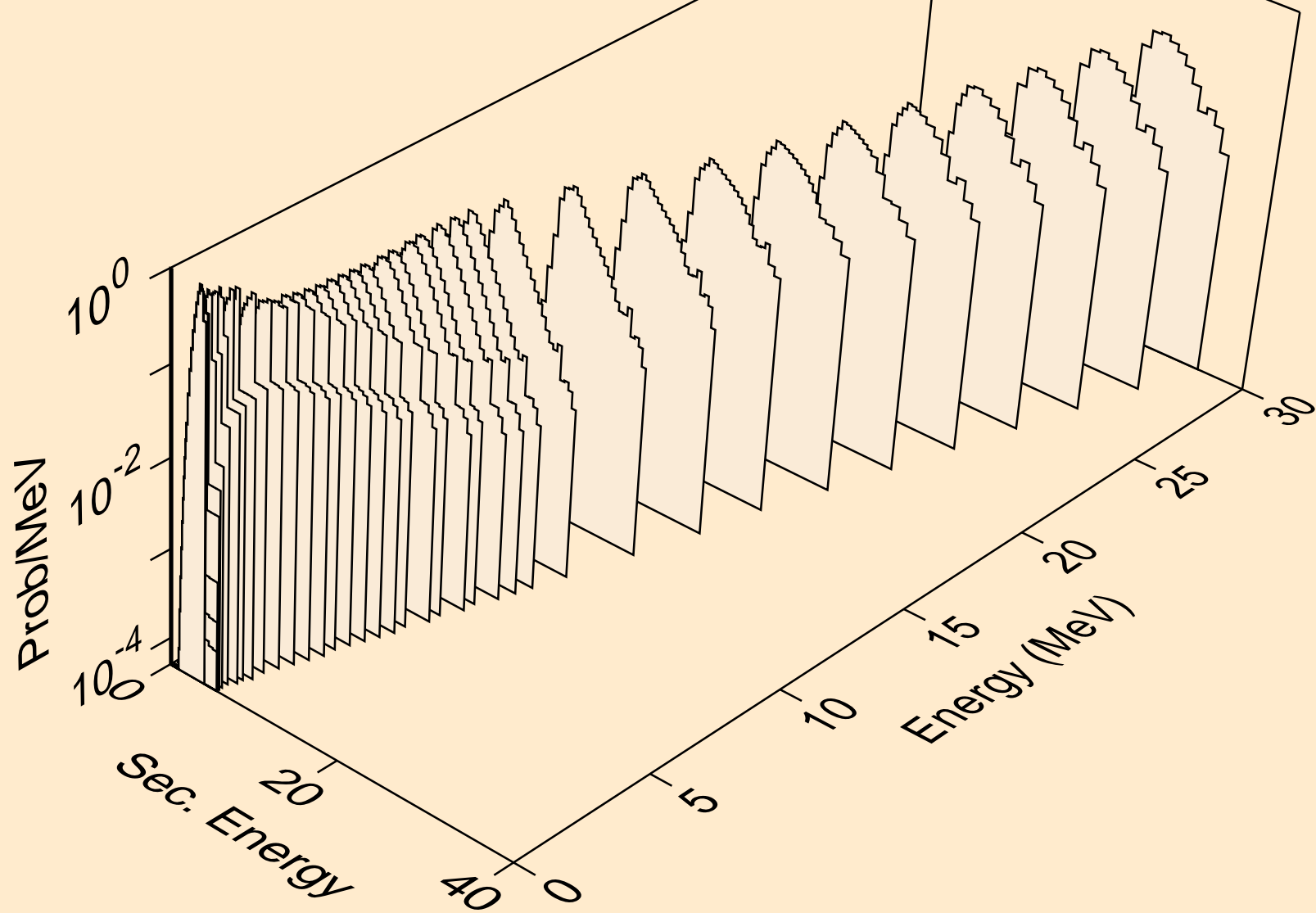
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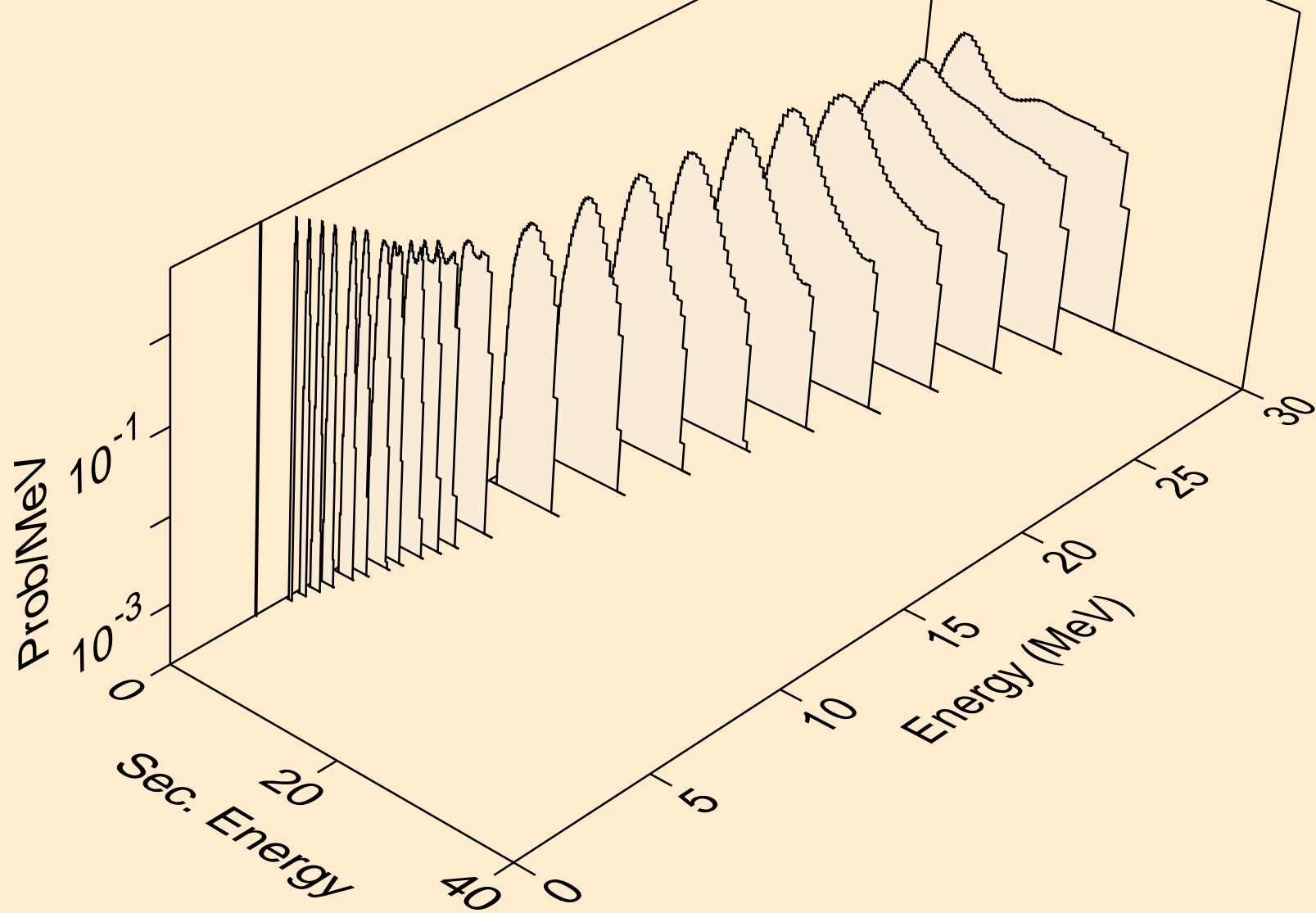
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)

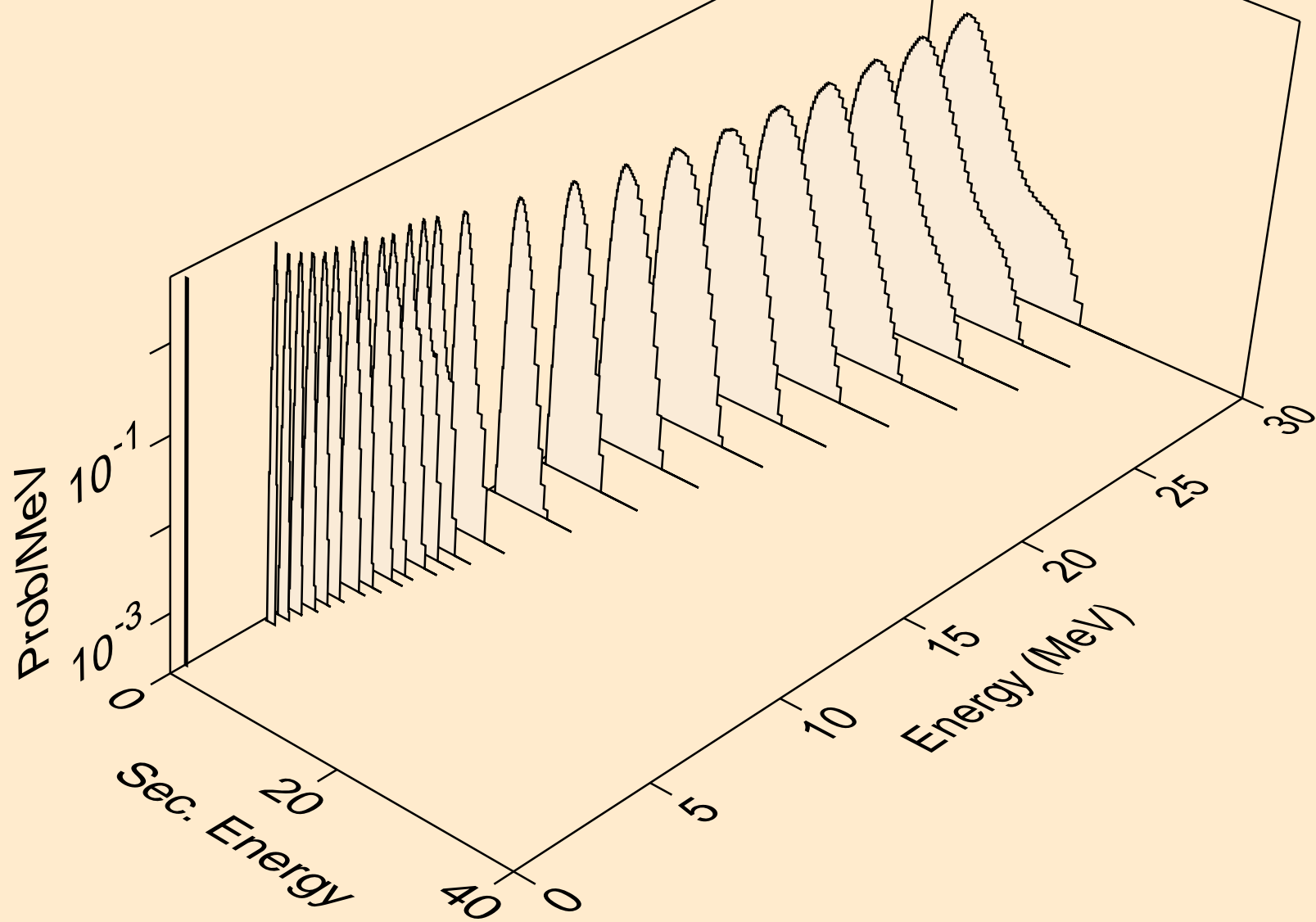


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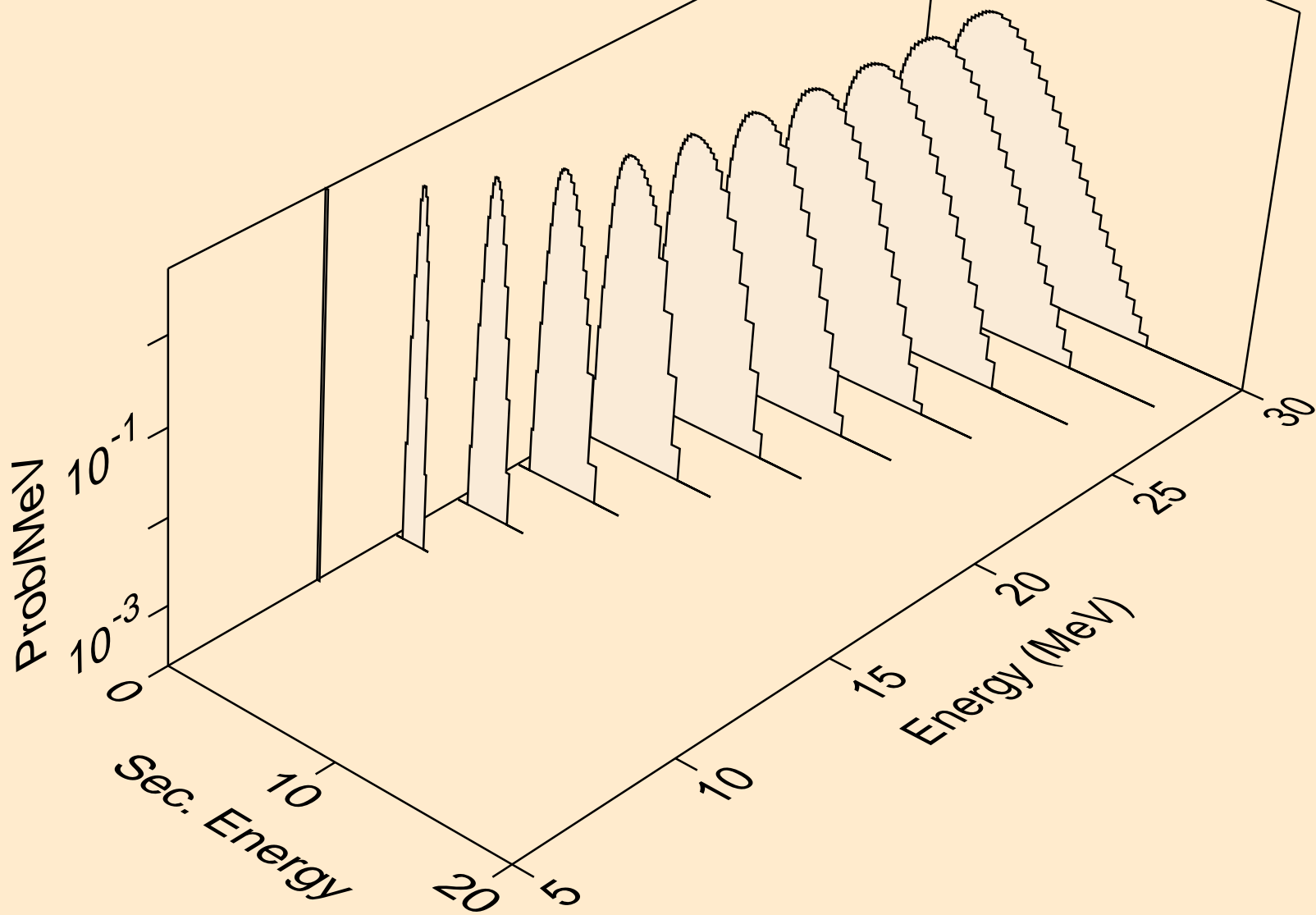




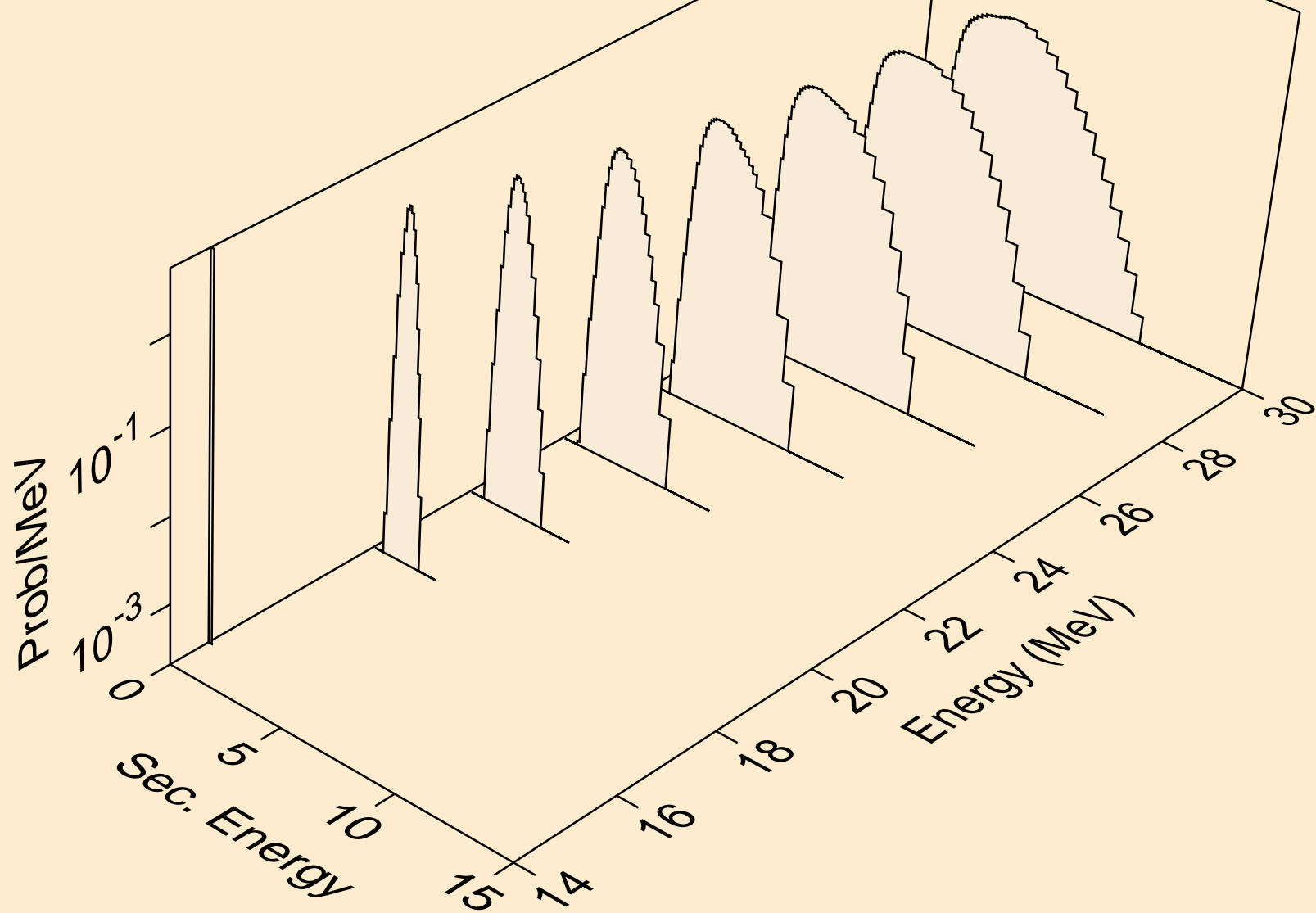
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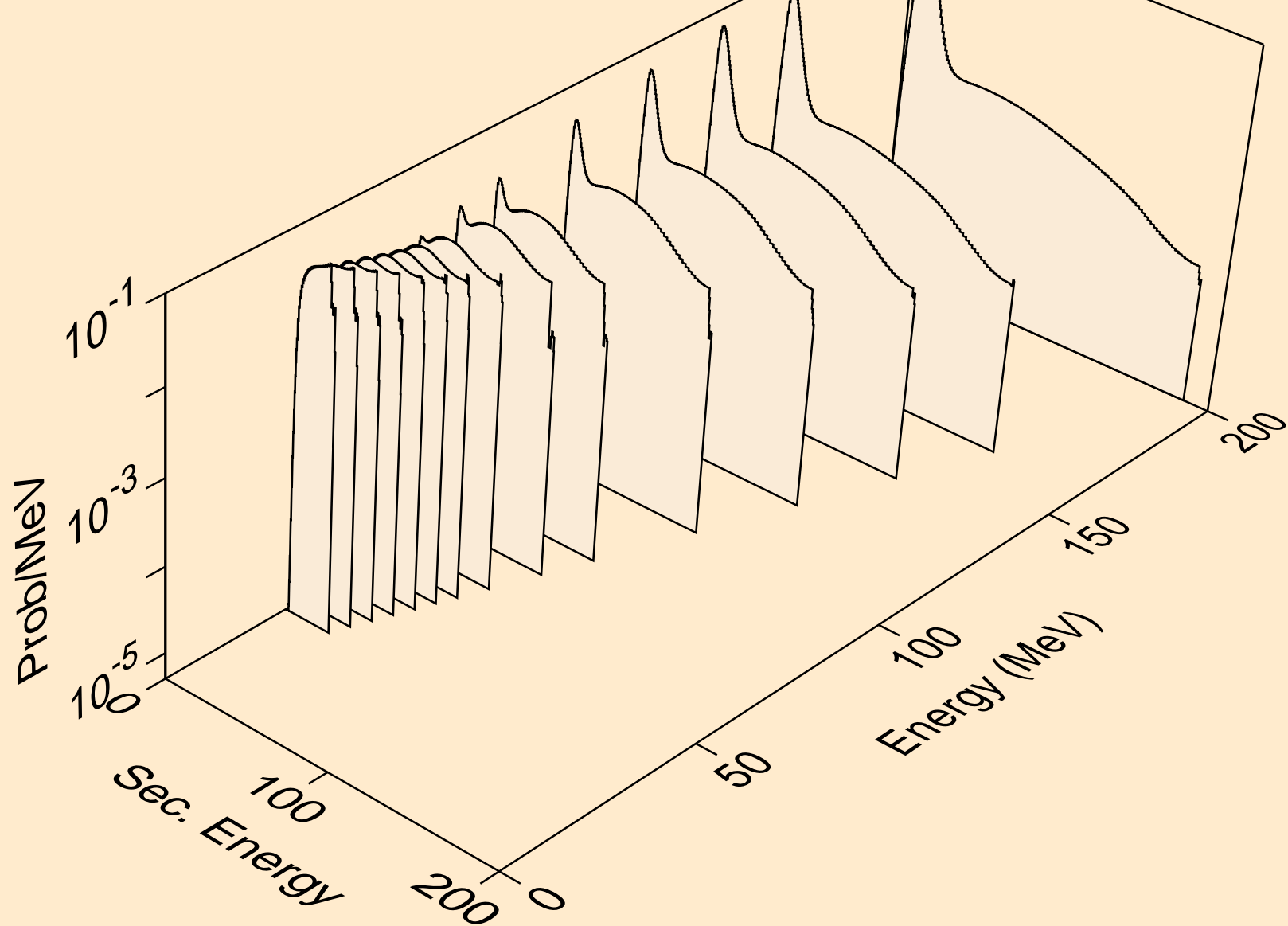
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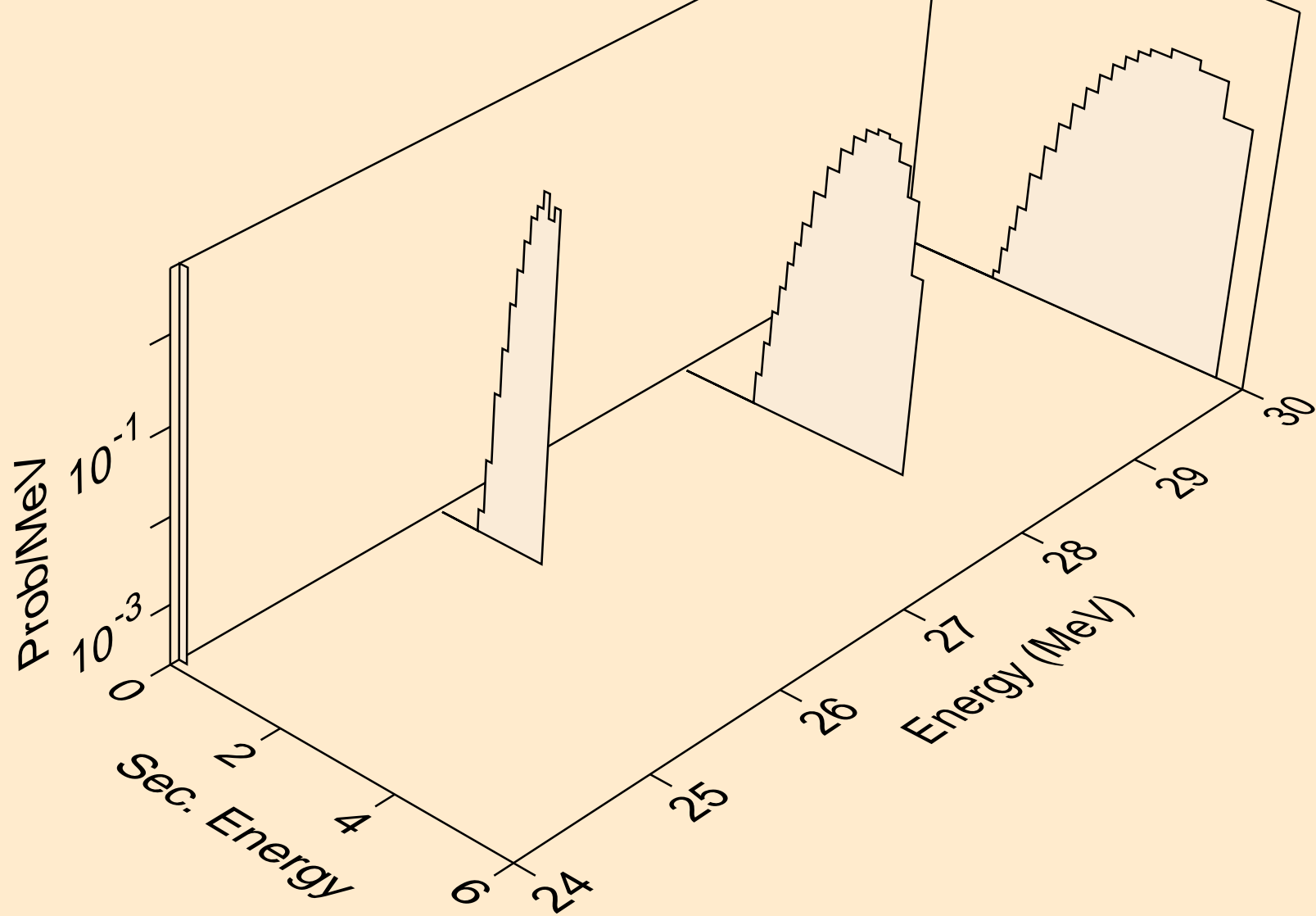
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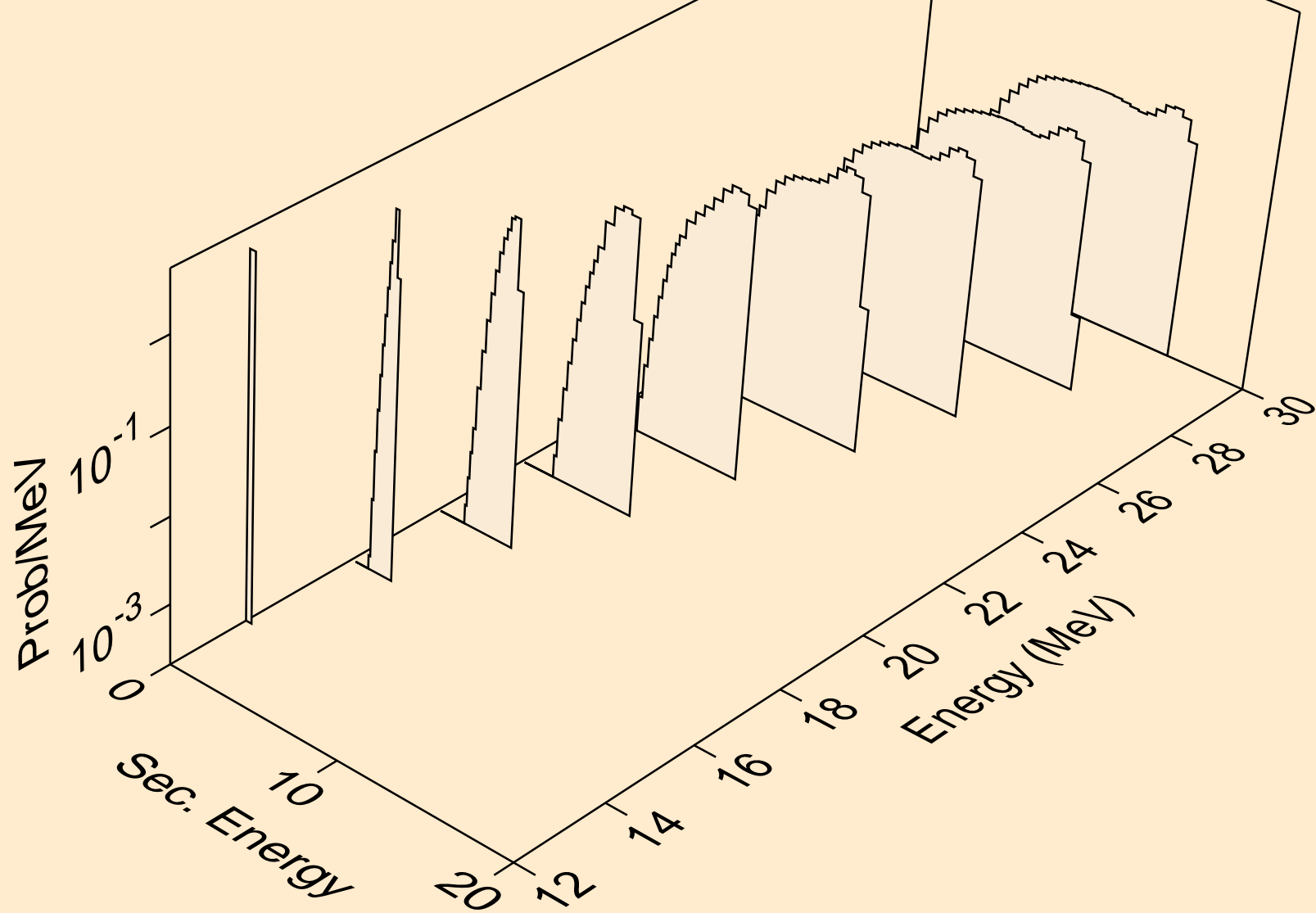
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deuterons from (n,x)



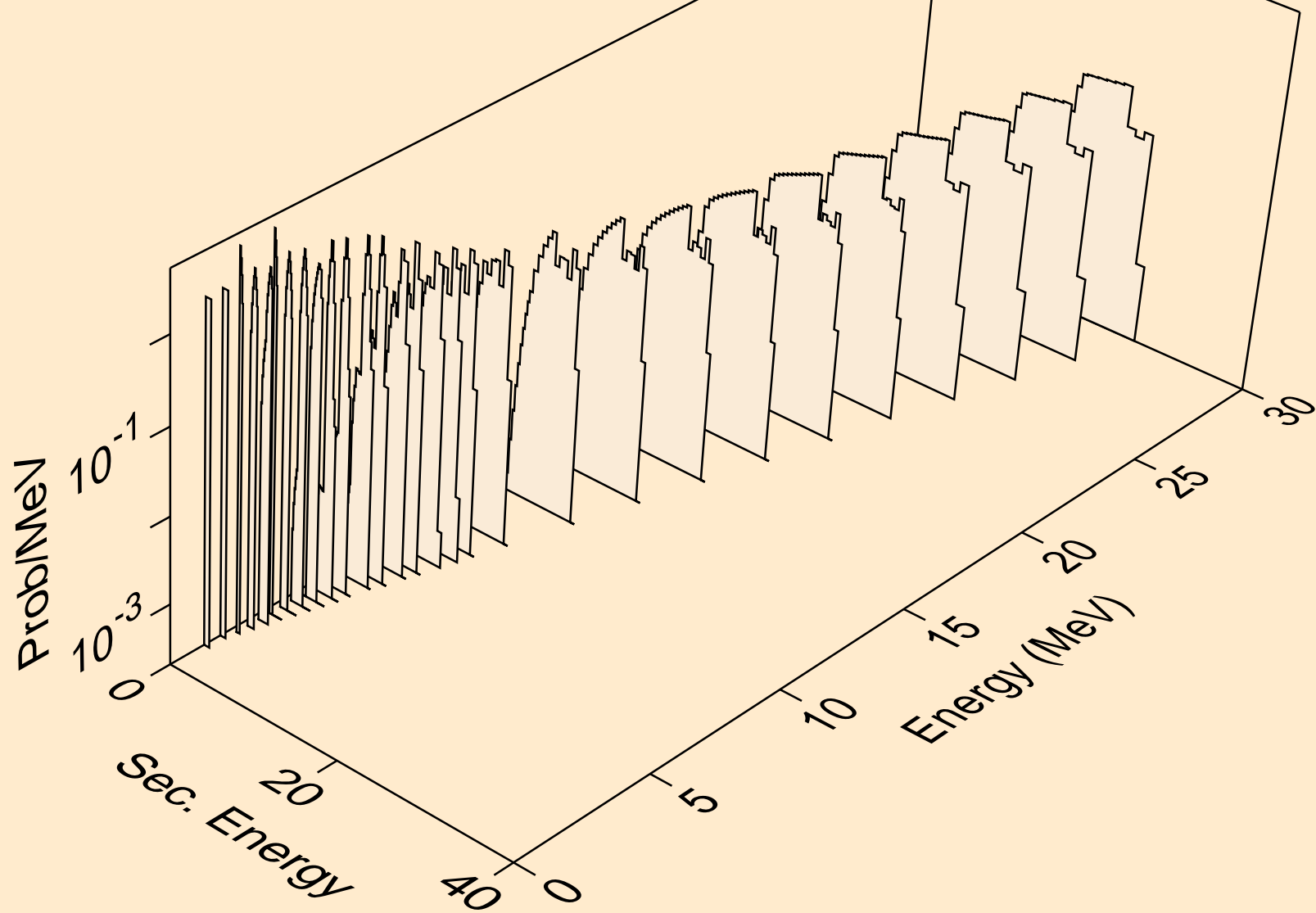
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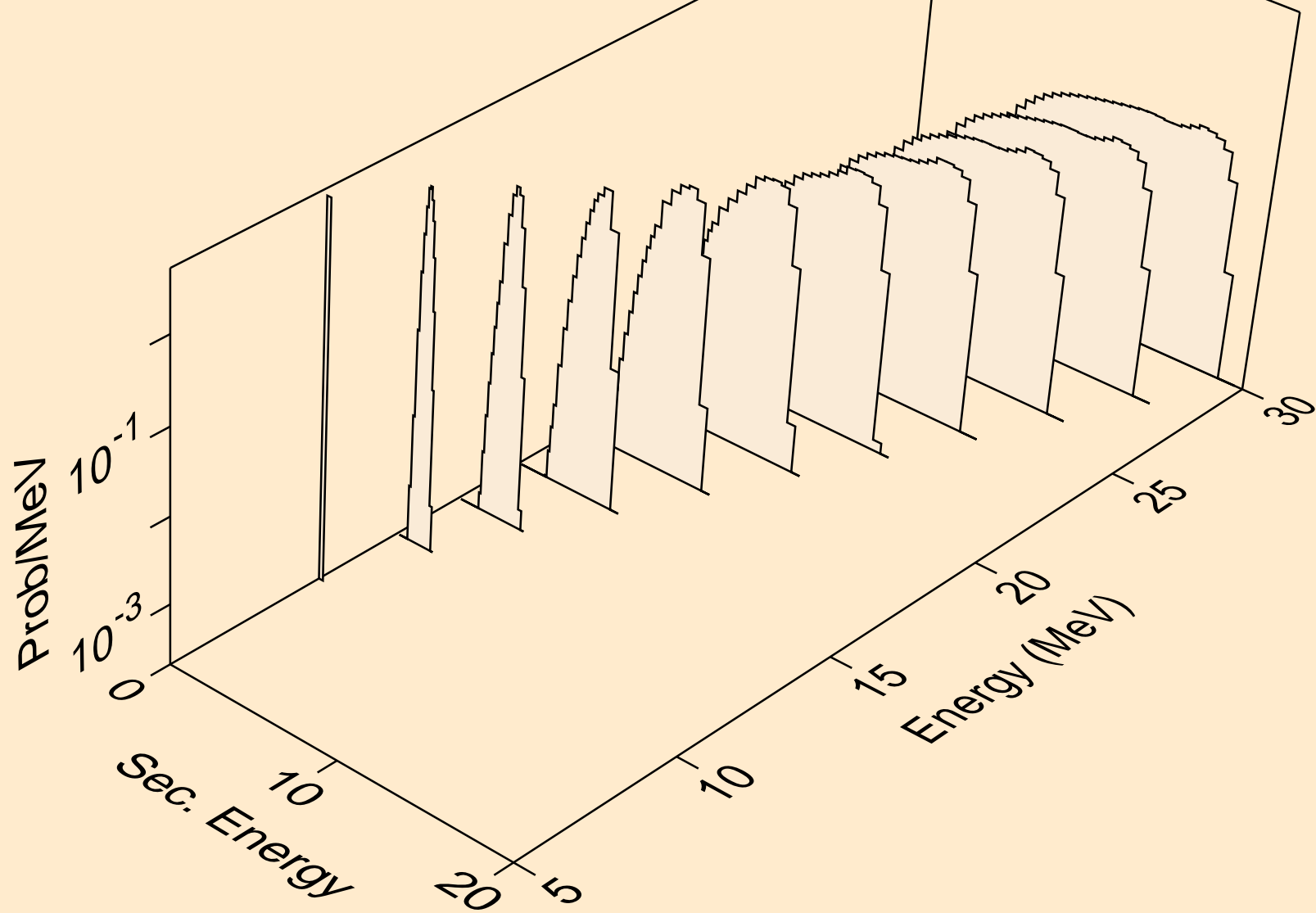
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deuterons from (n,n\*)d



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
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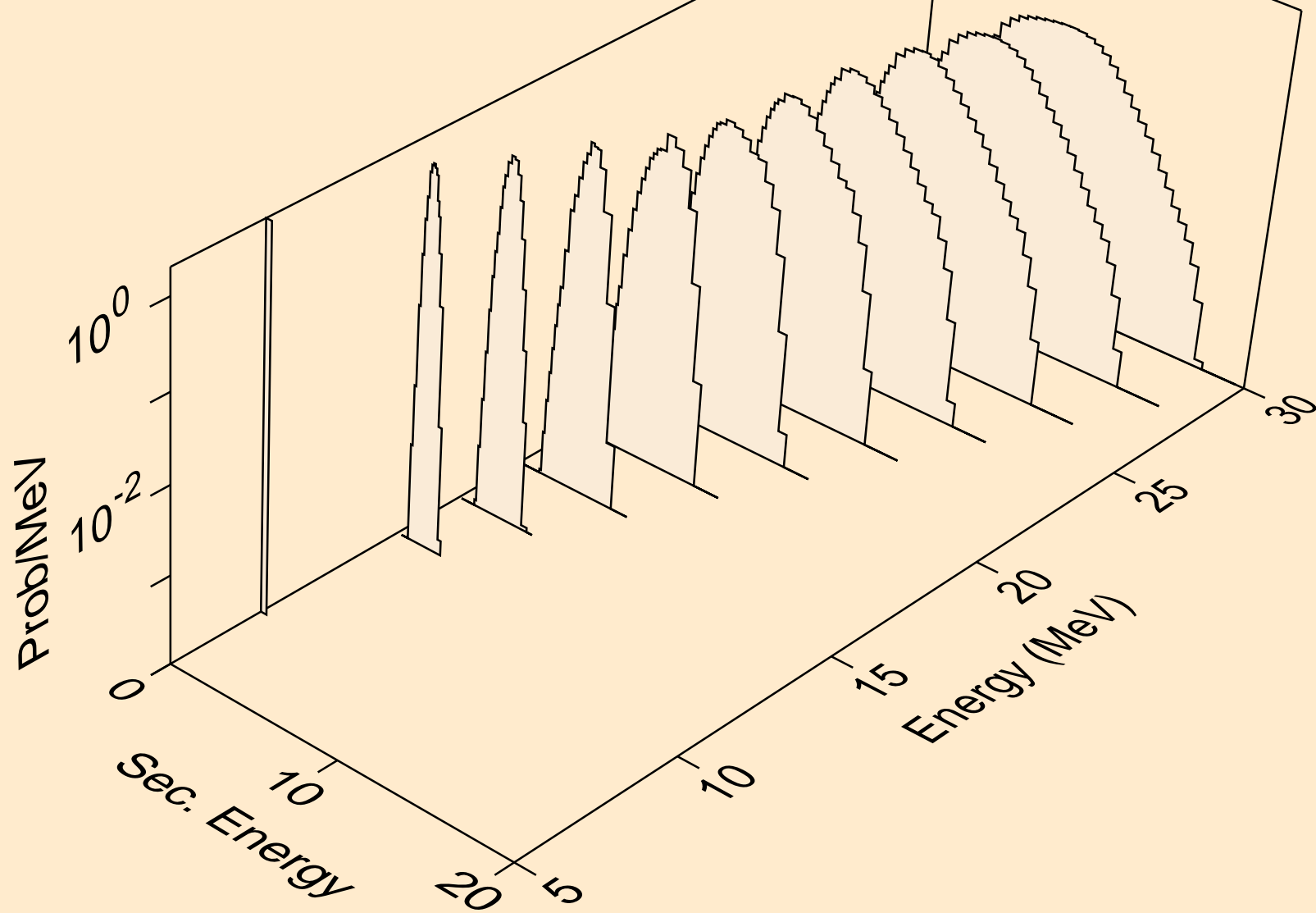


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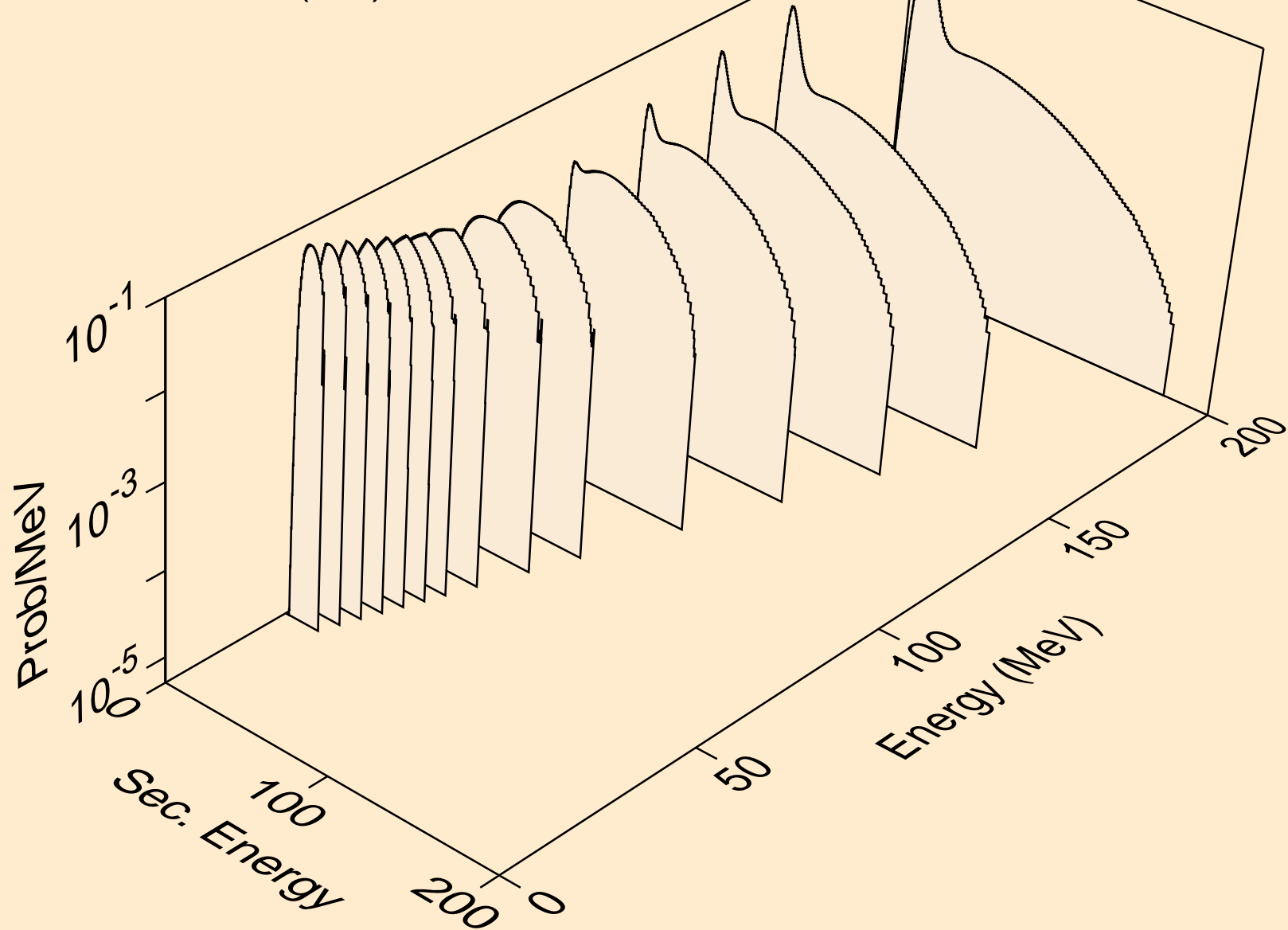




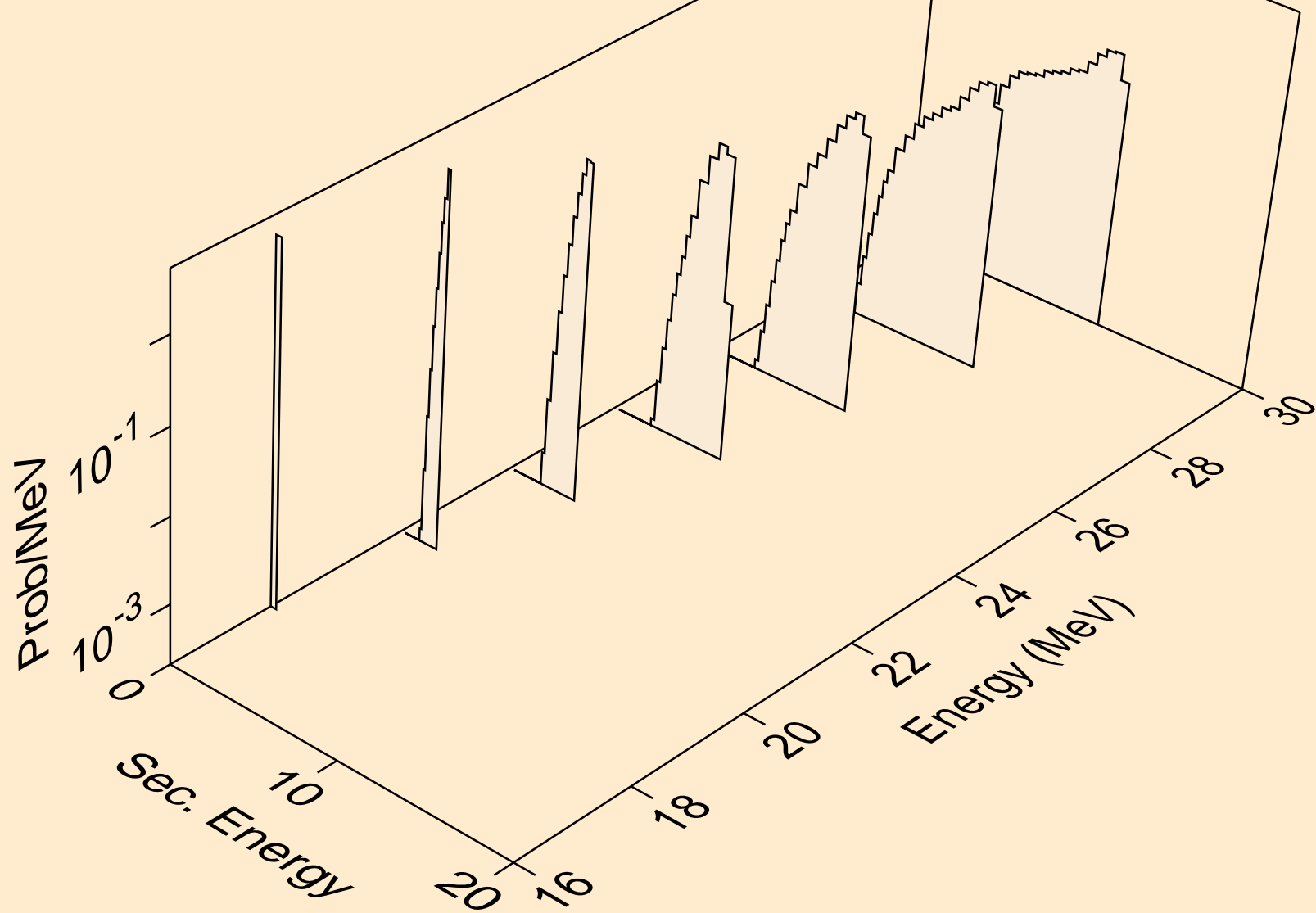
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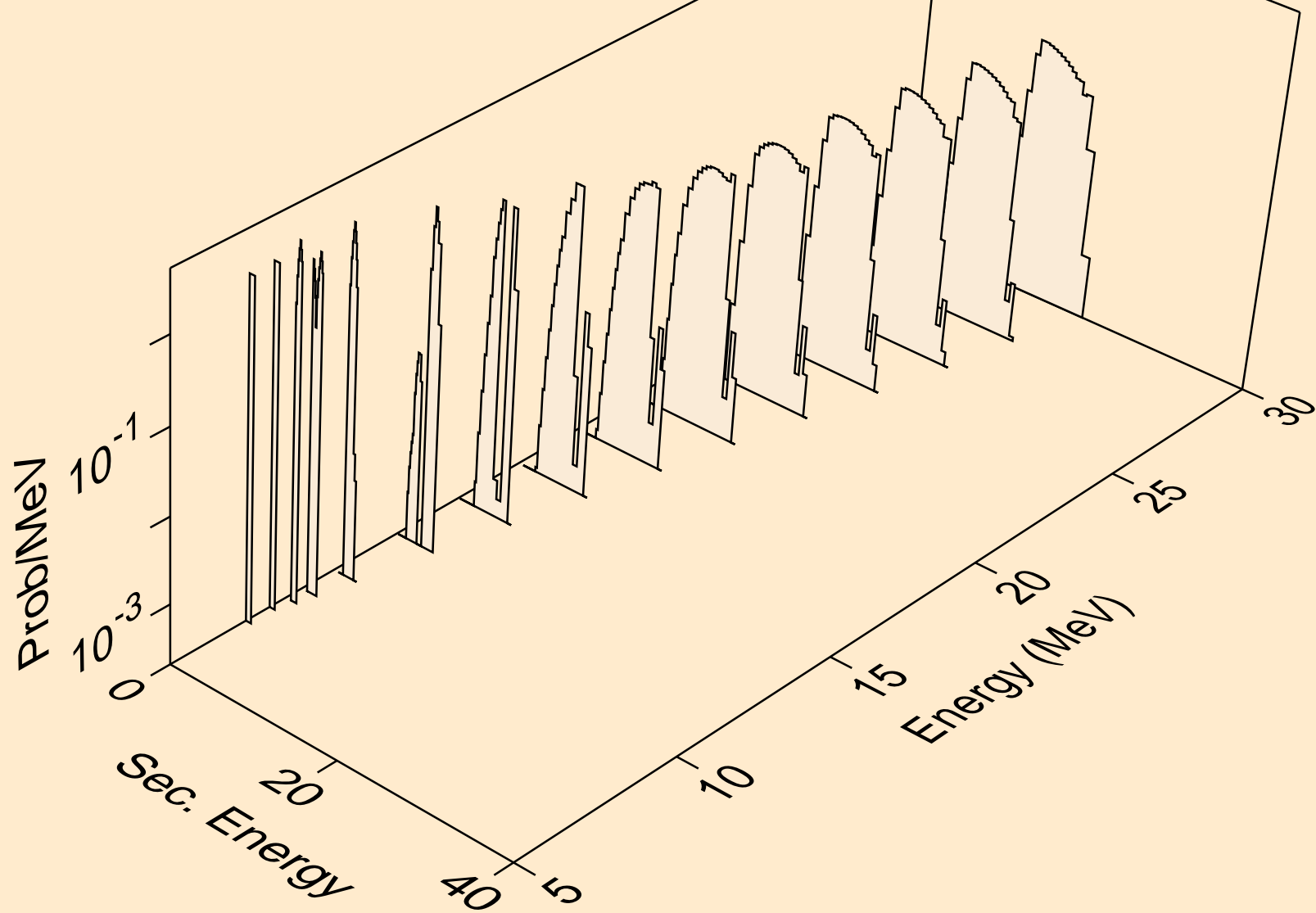
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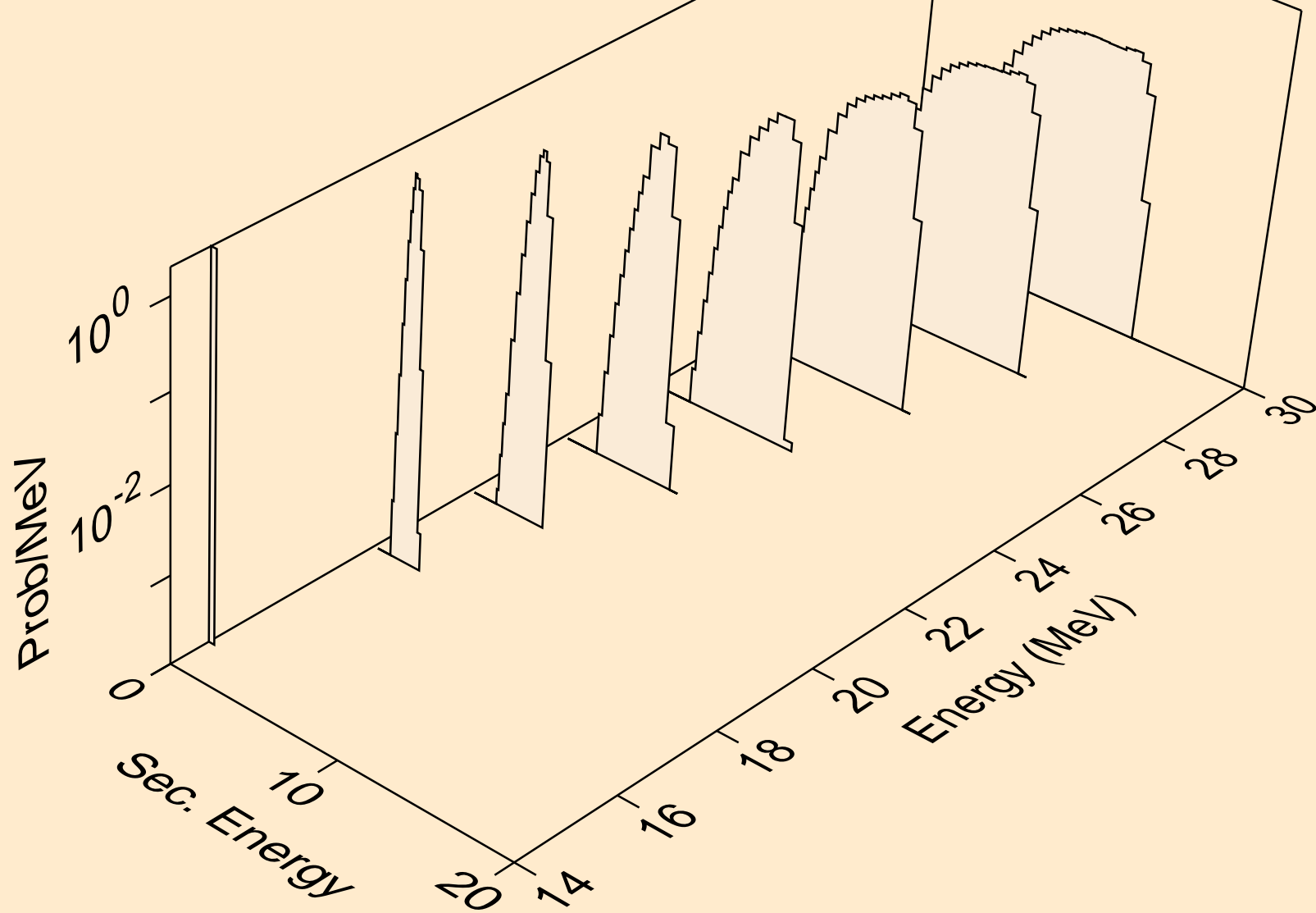
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tritons from (n,n\*)t



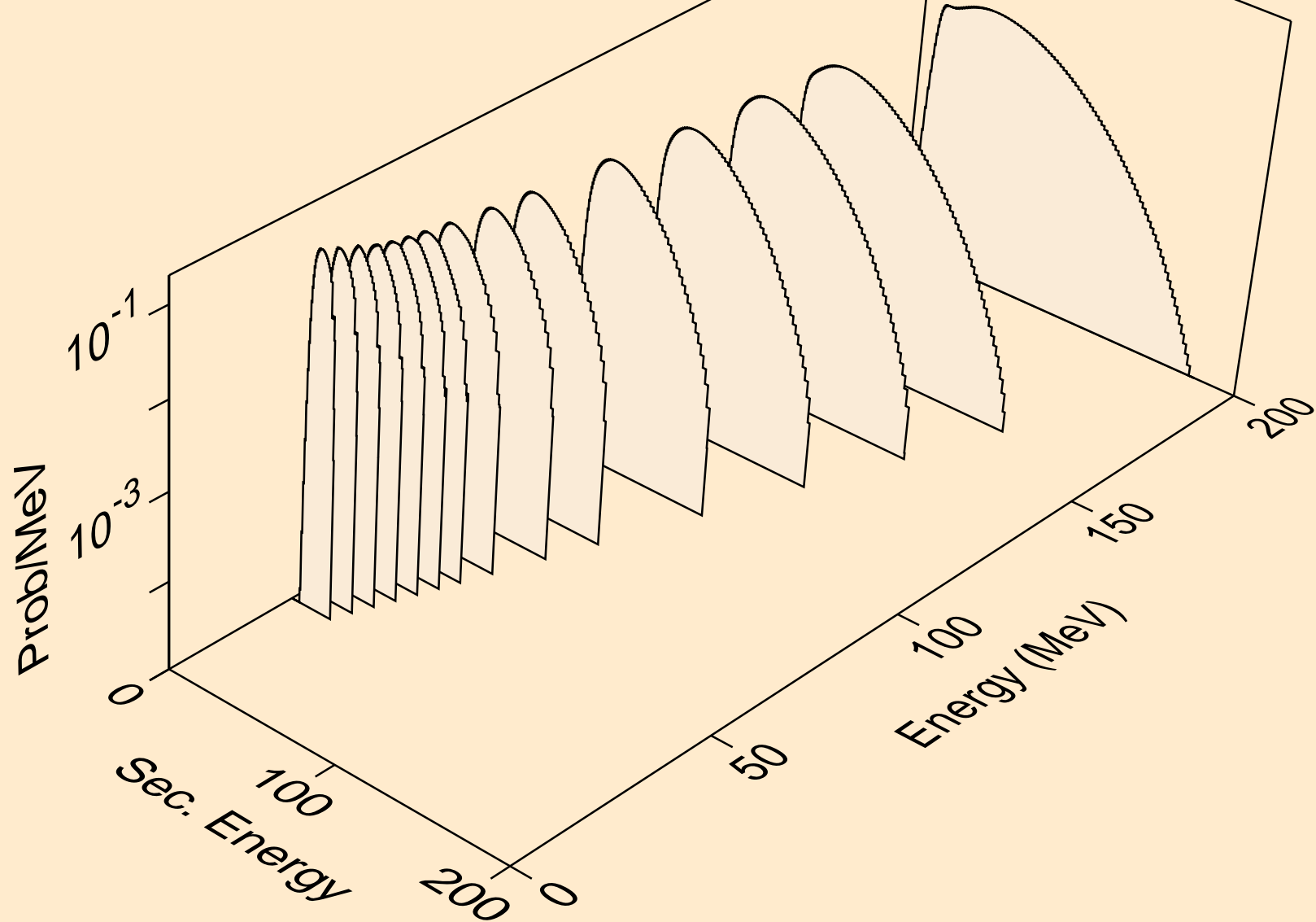
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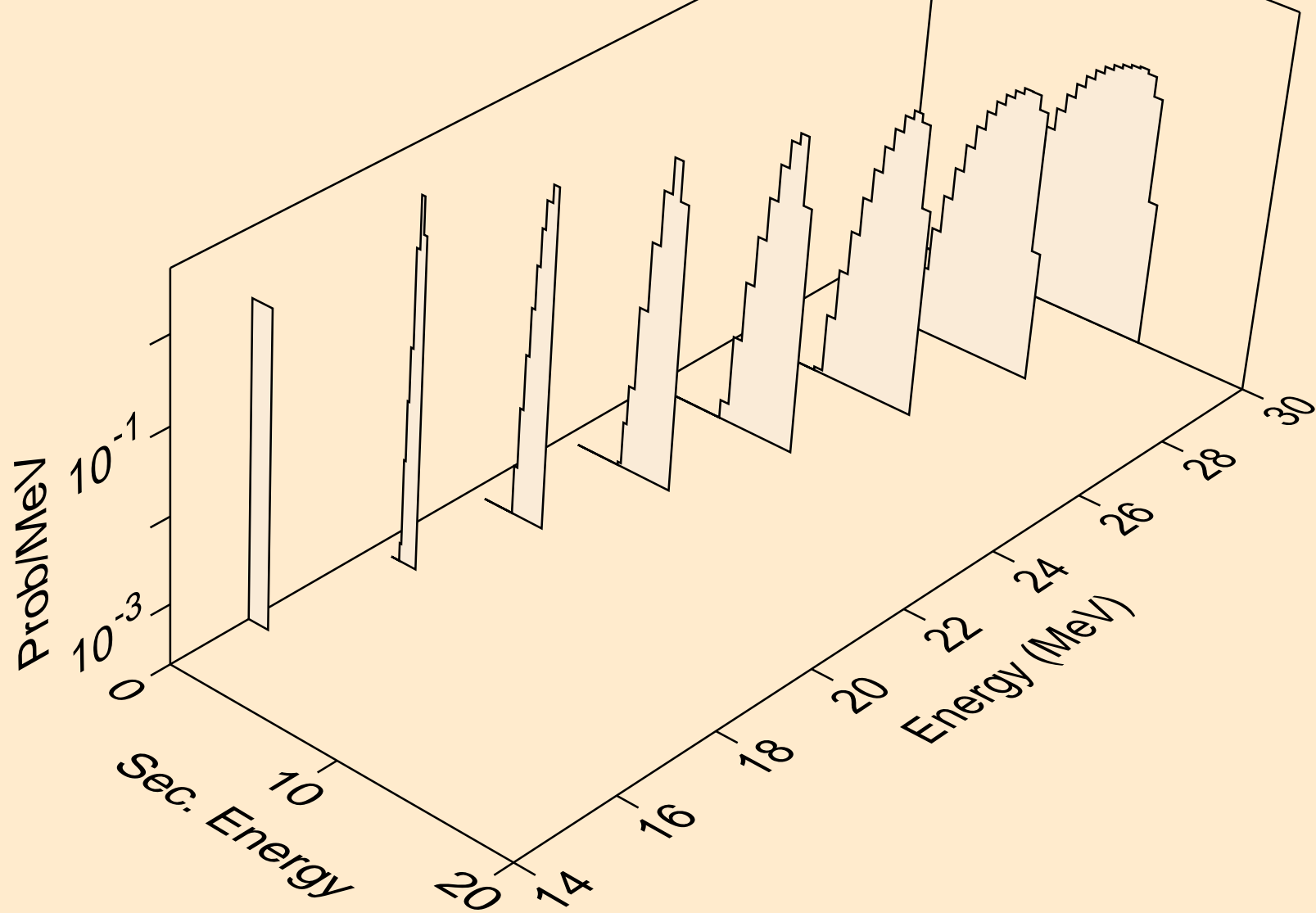
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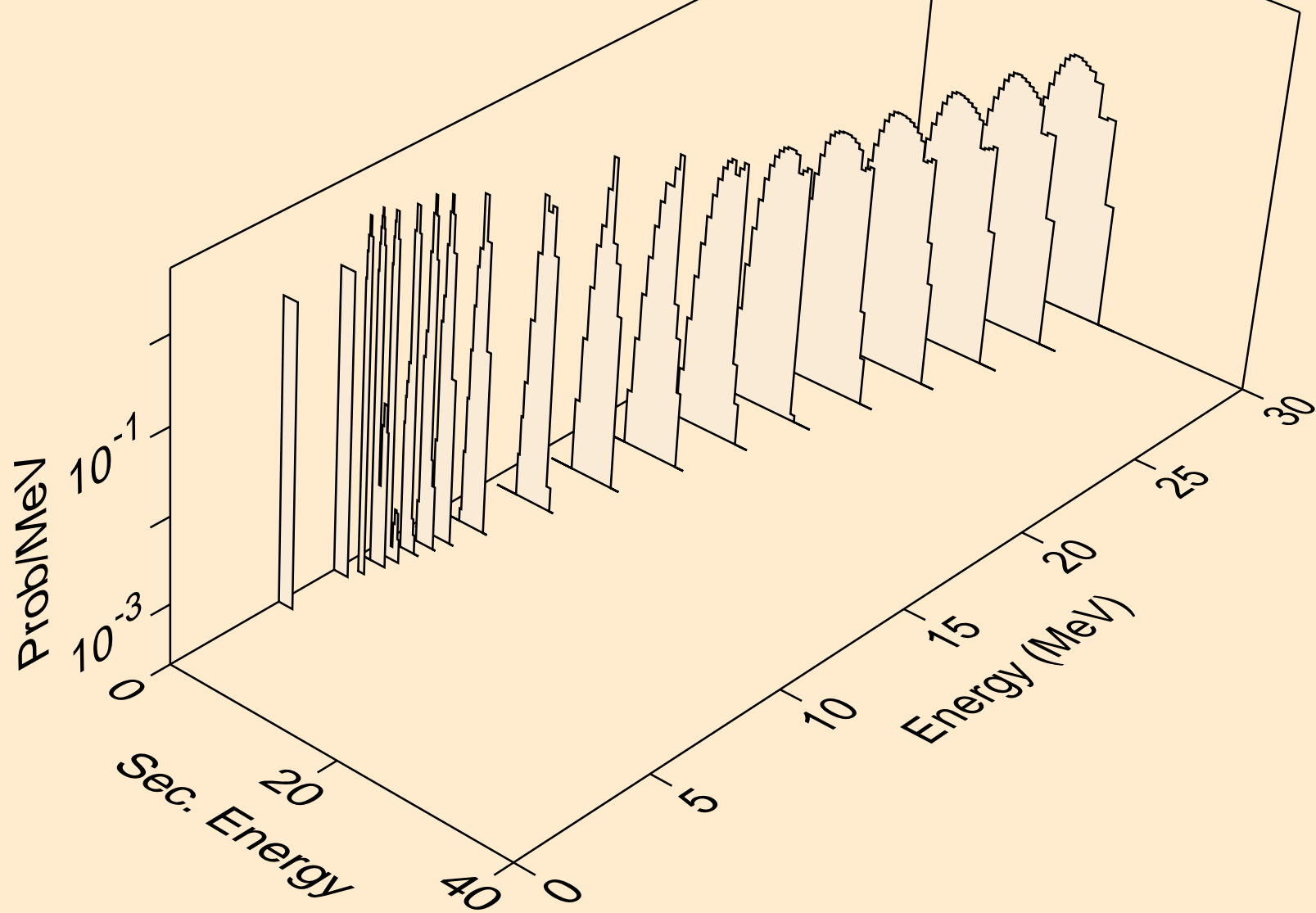
CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3

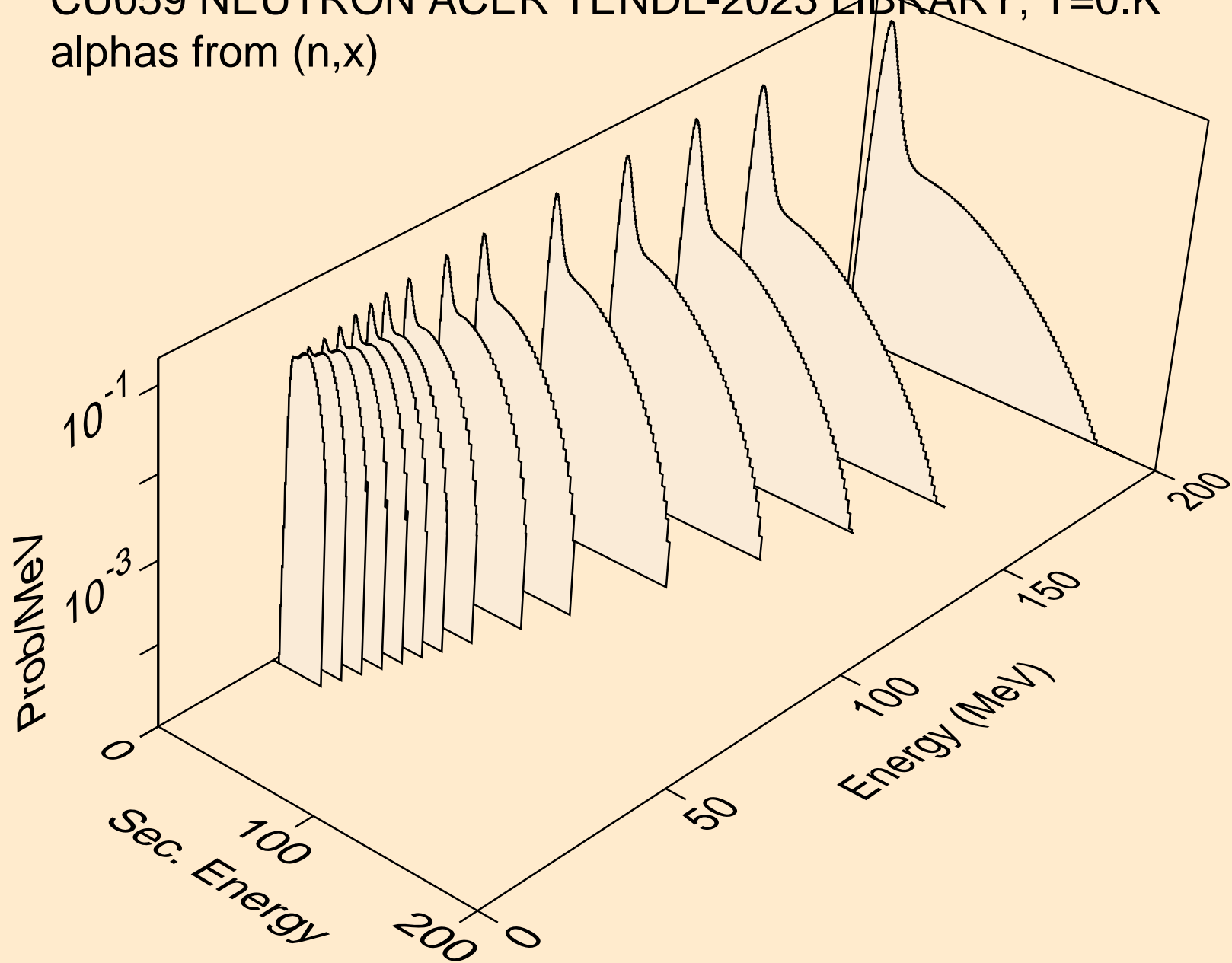


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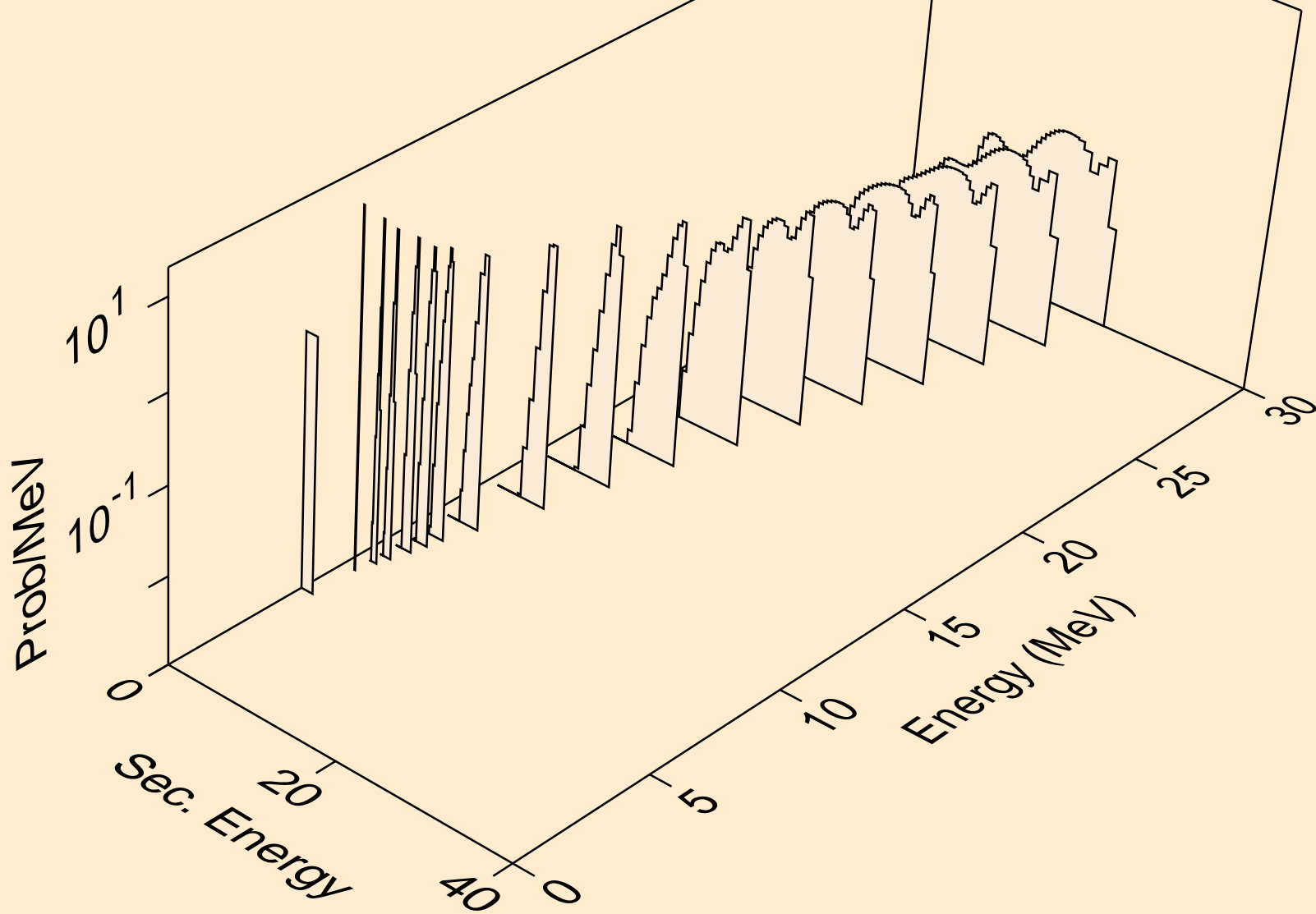




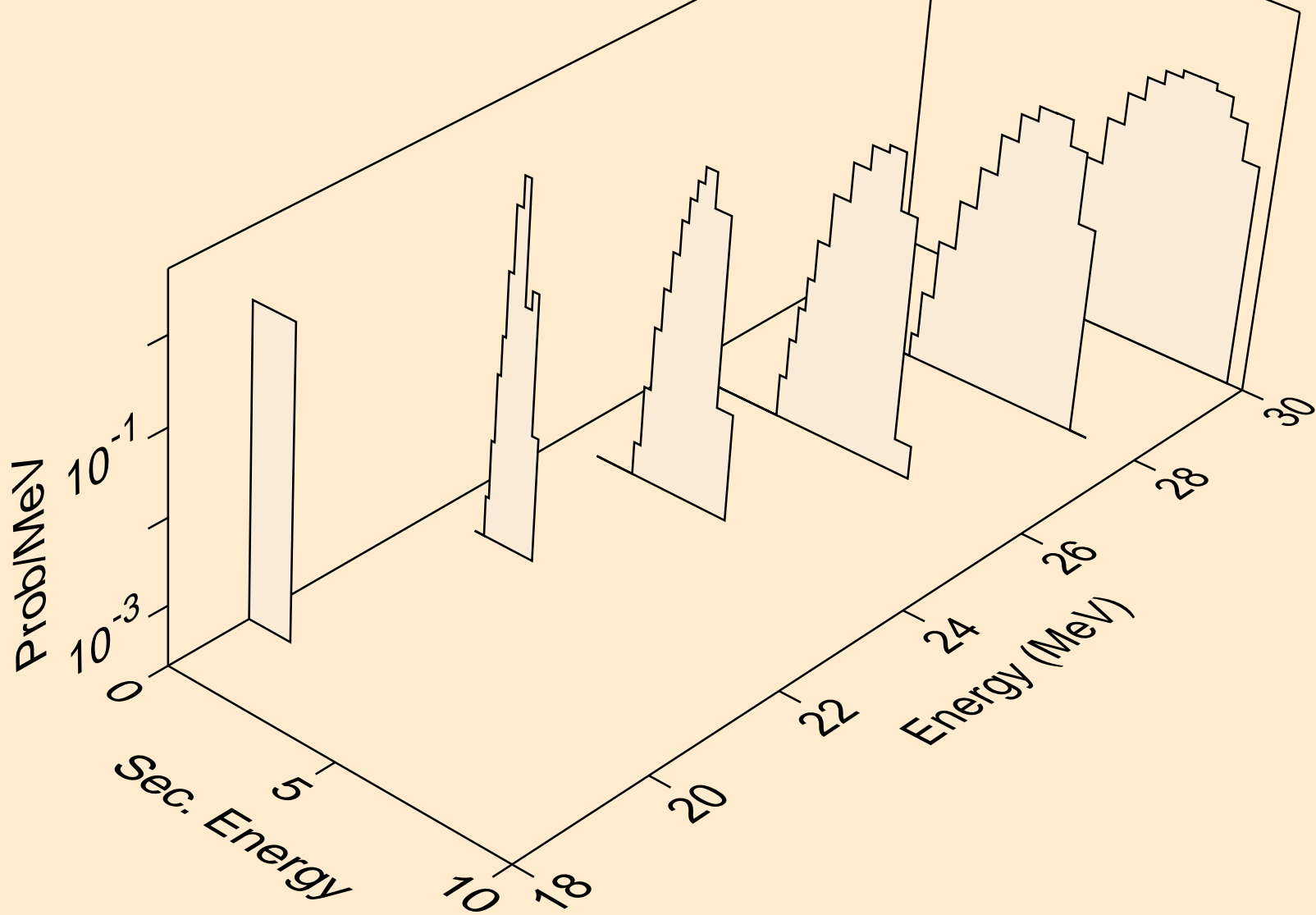
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alphas from (n,x)



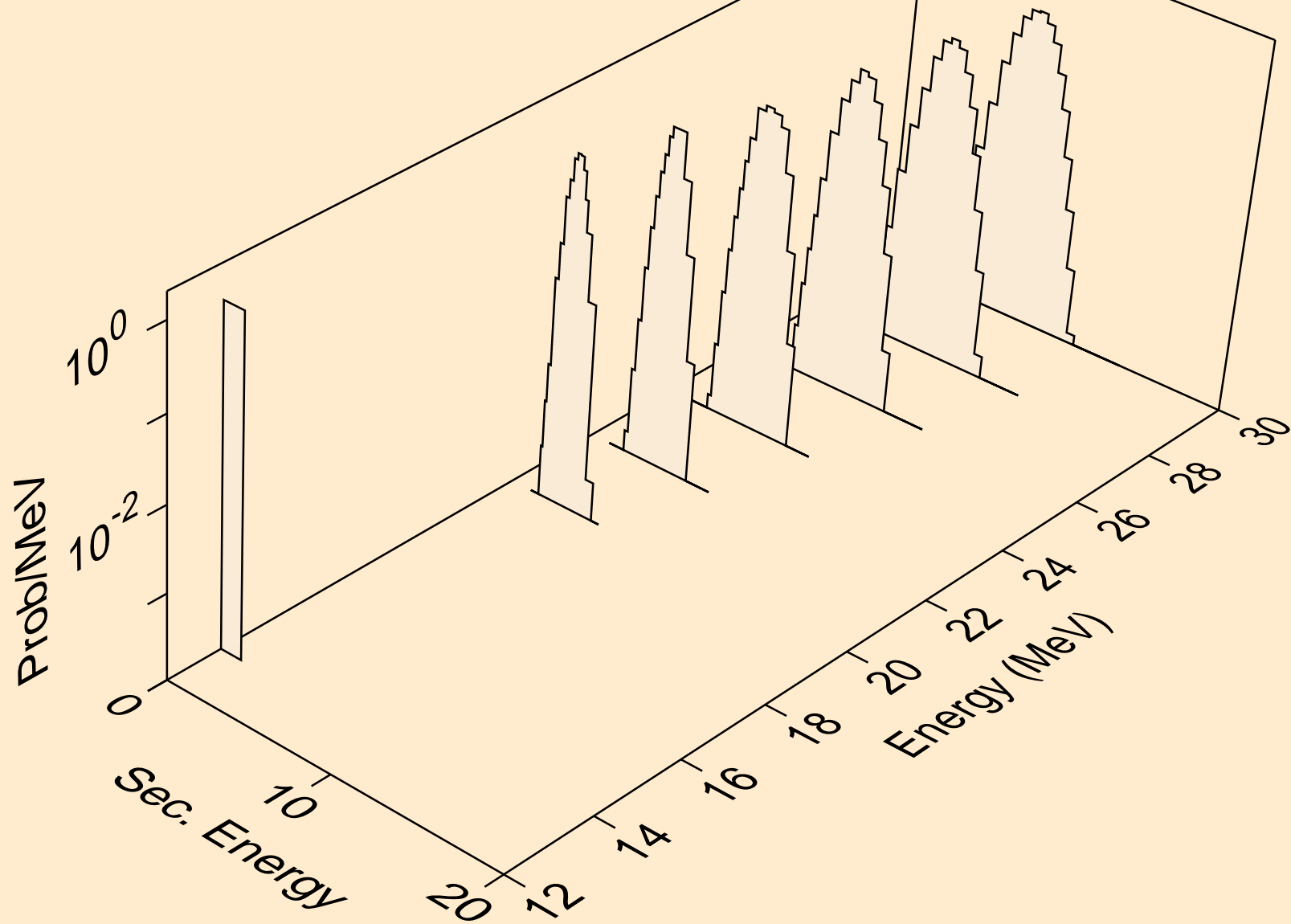
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alphas from (n,n\*)a



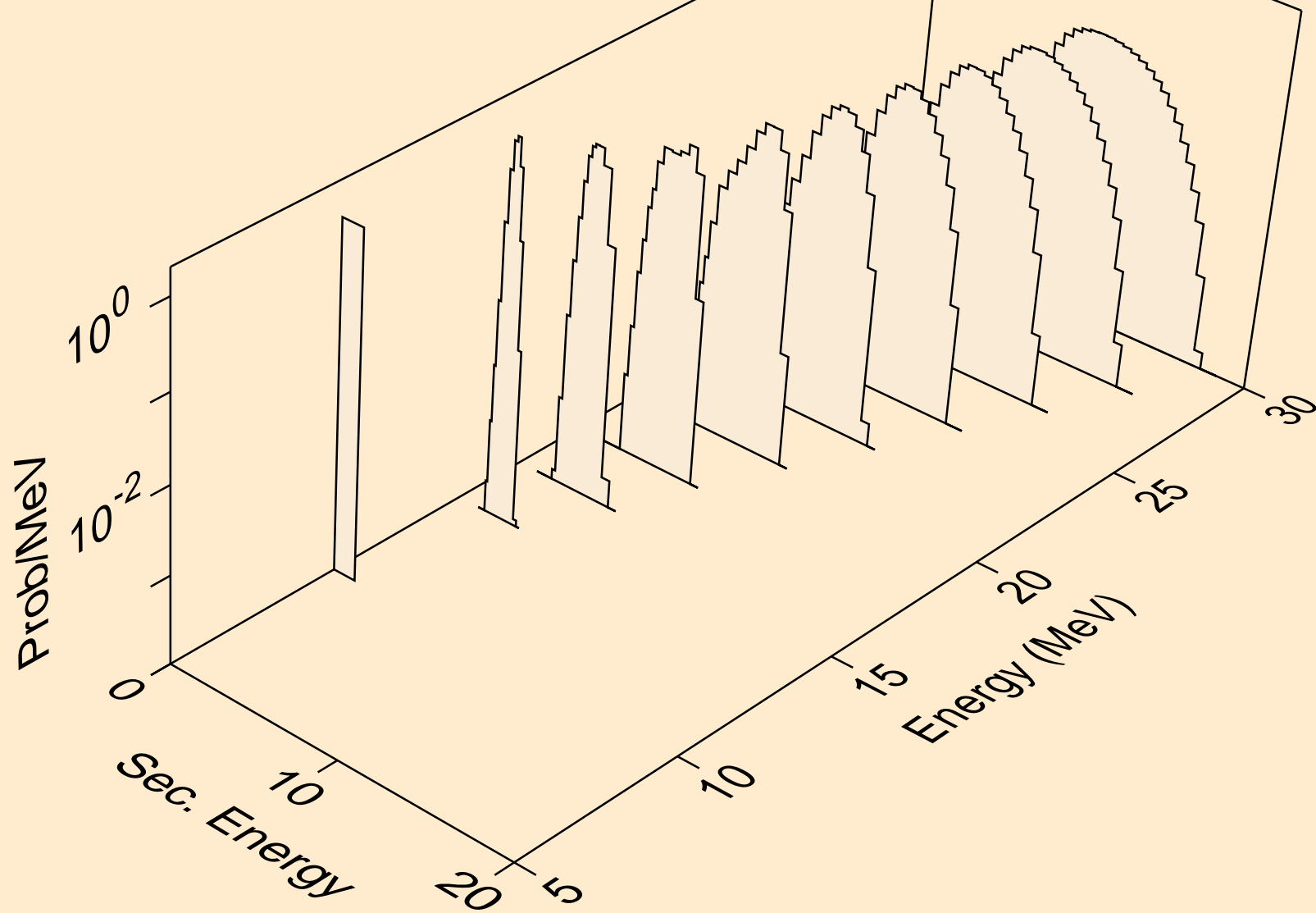
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alphas from (n,2n)a



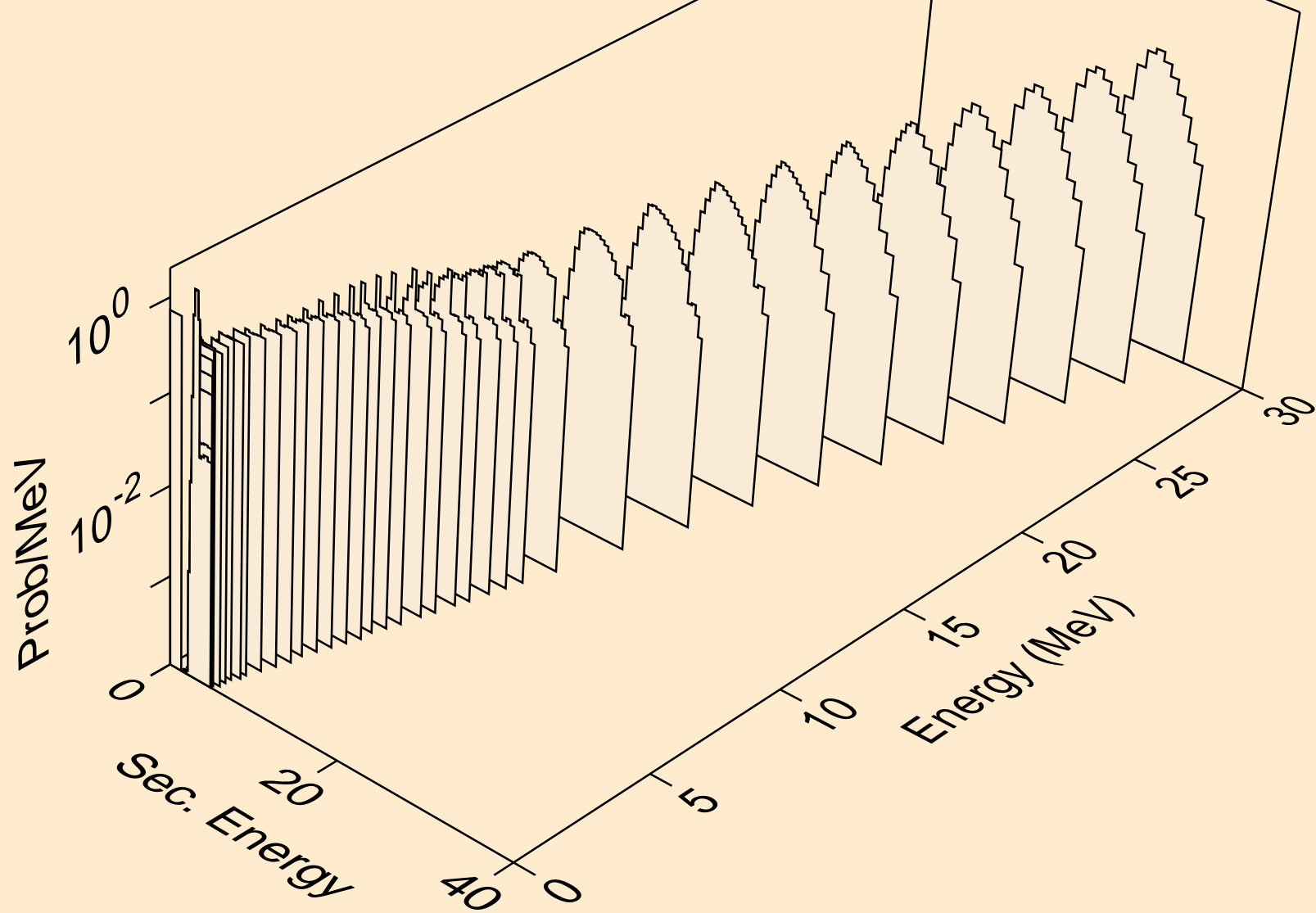
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alphas from (n,n\*)2a



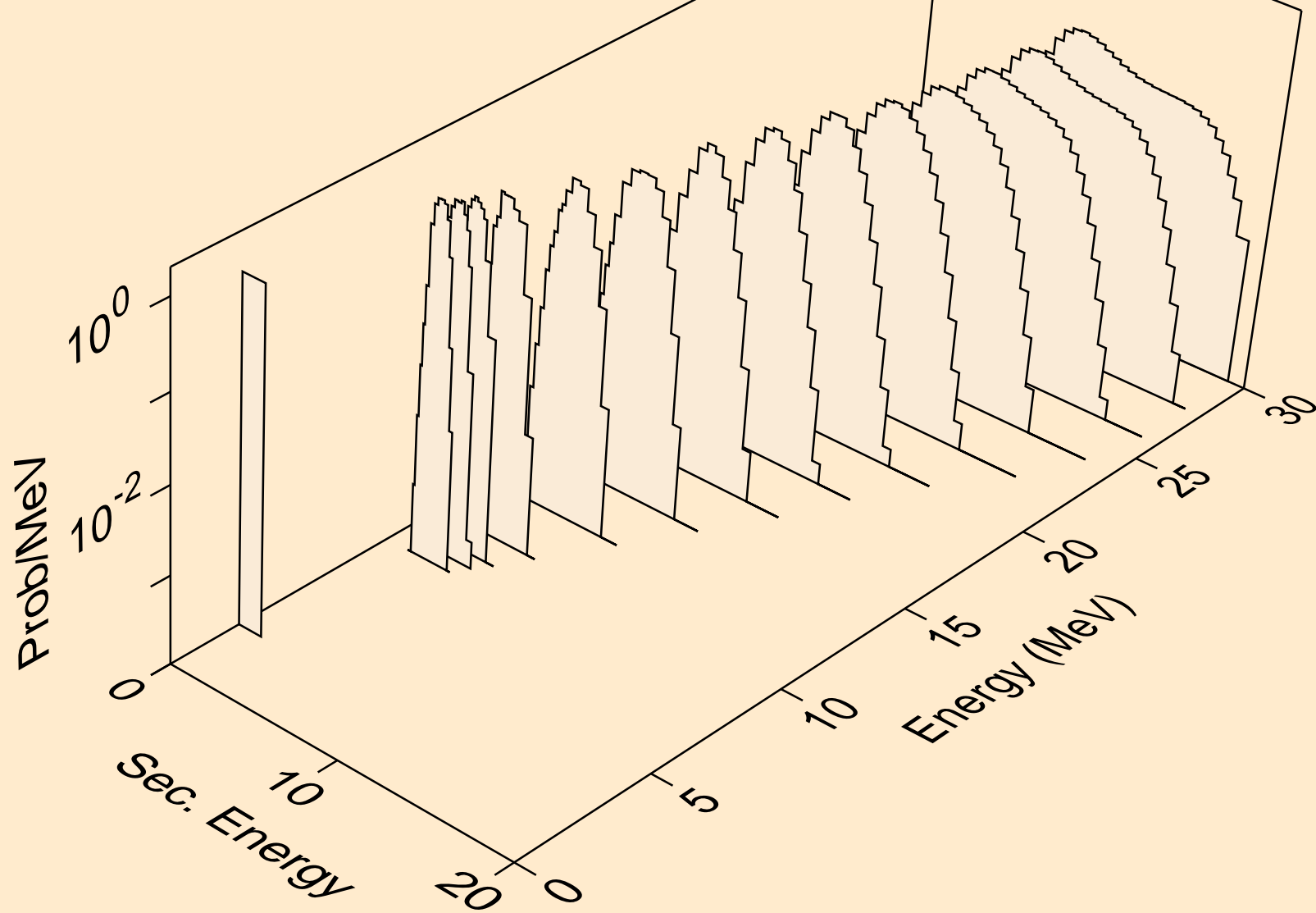
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alphas from (n,npa)



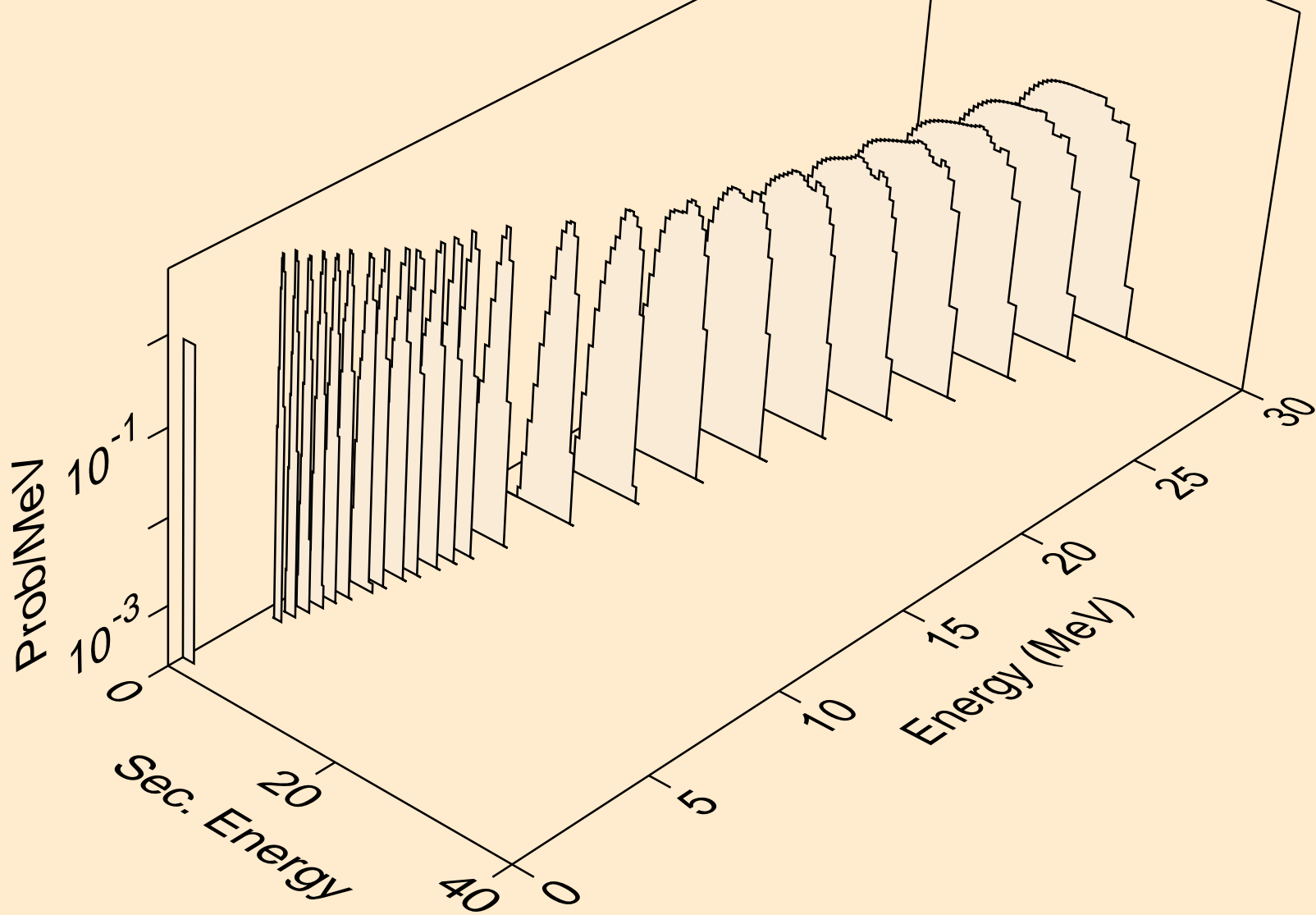
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alphas from (n,a)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)





CU059 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

