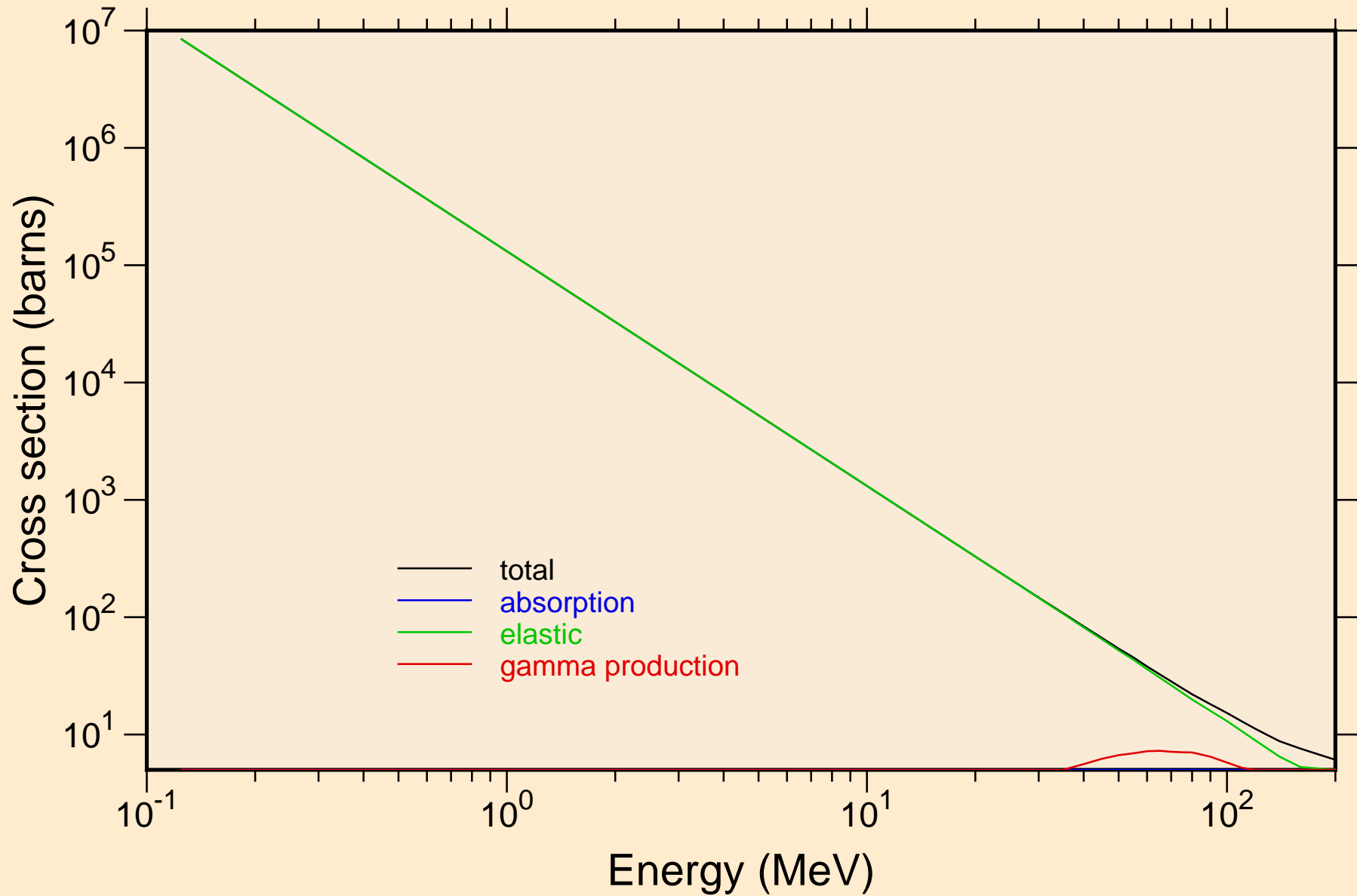
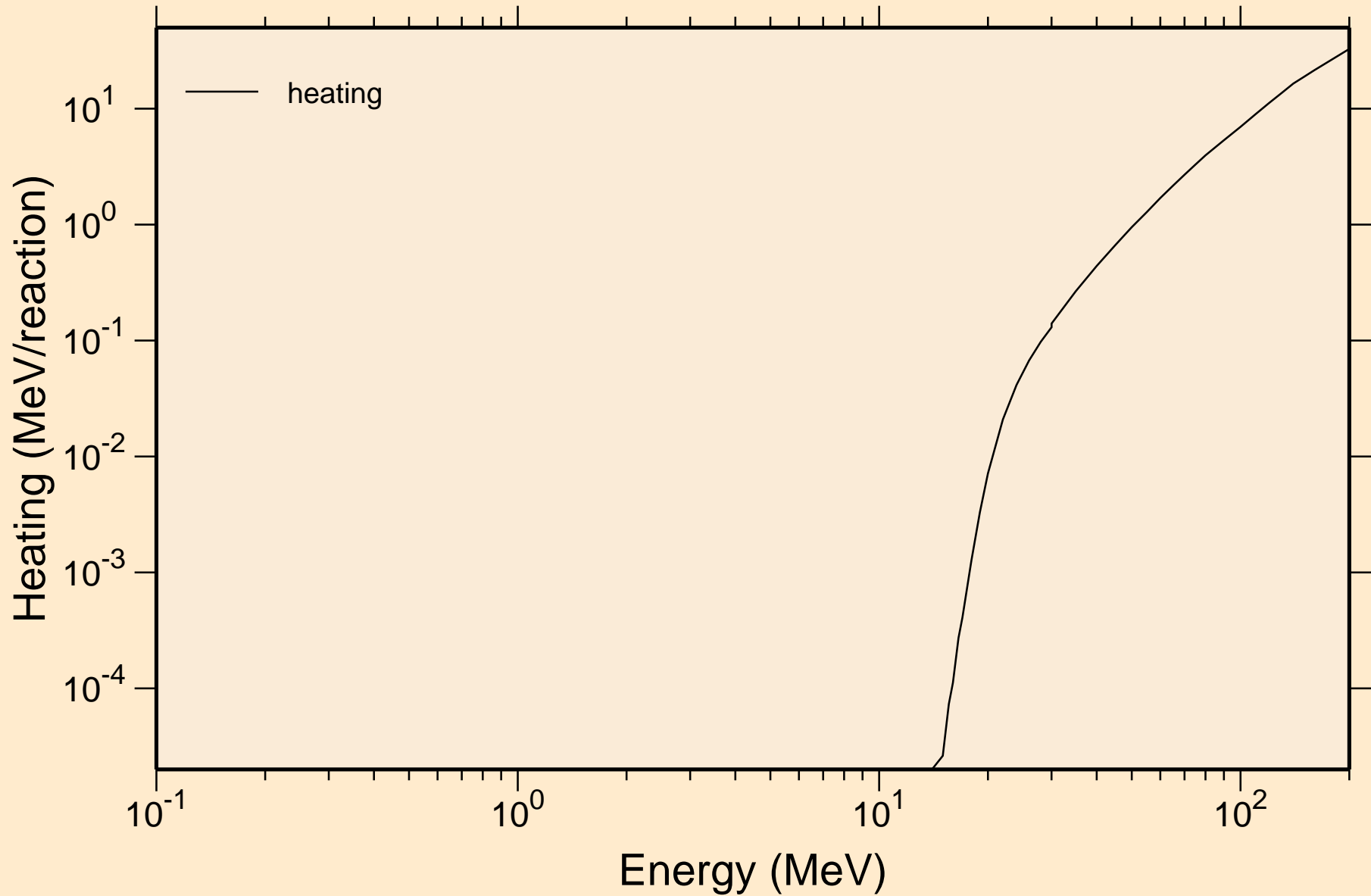


HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections



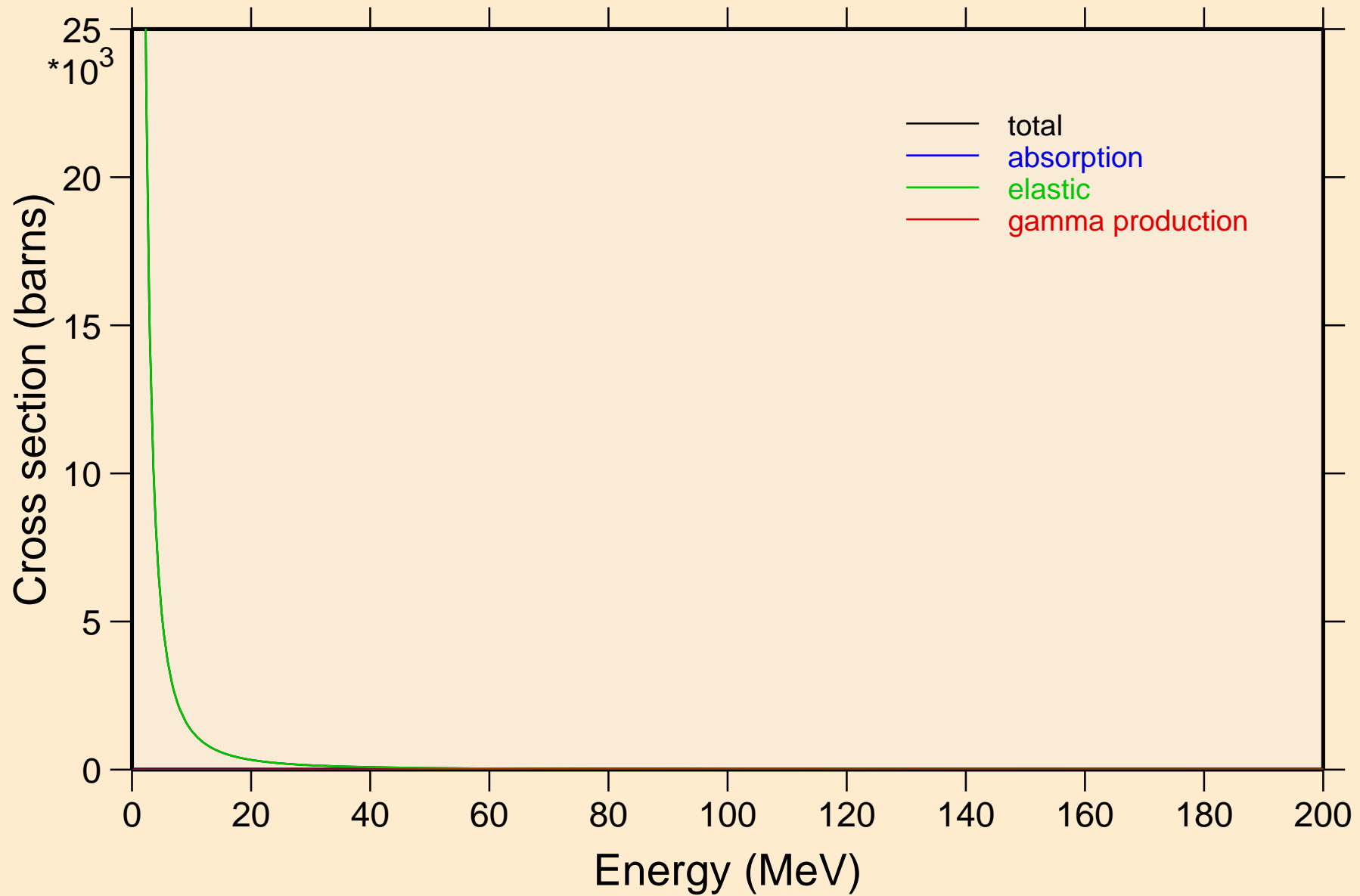
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Heating



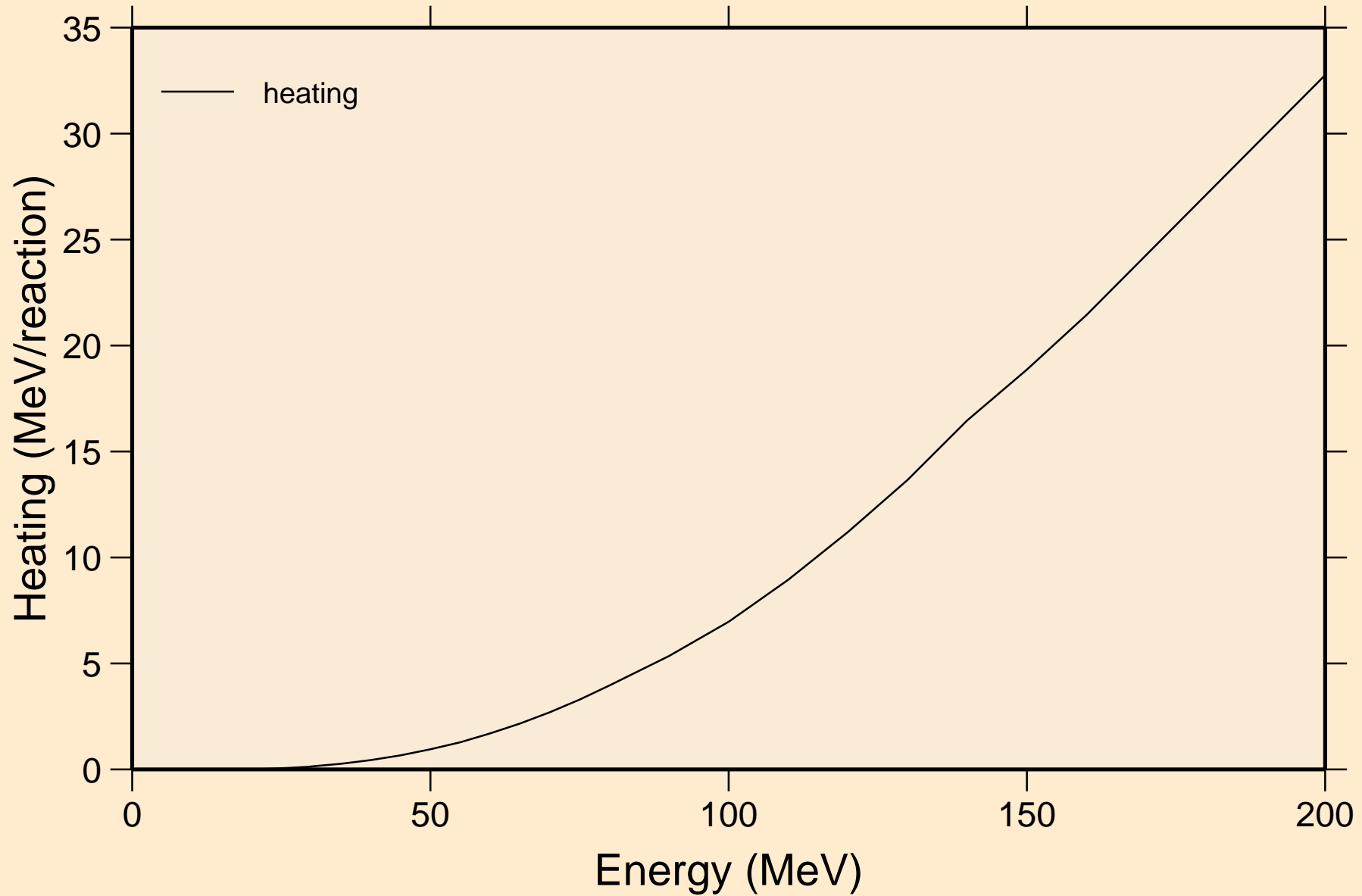
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## Principal cross sections

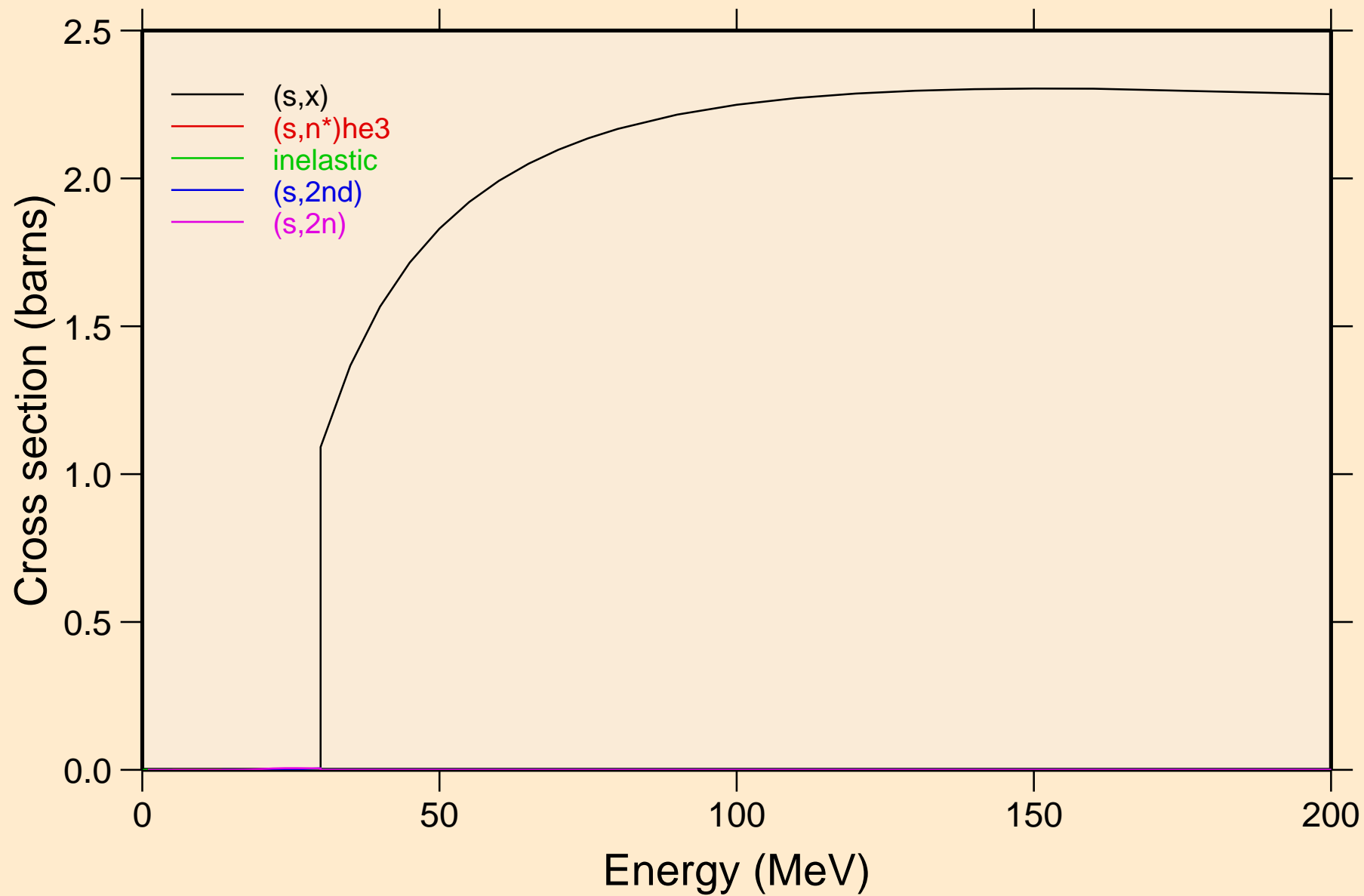


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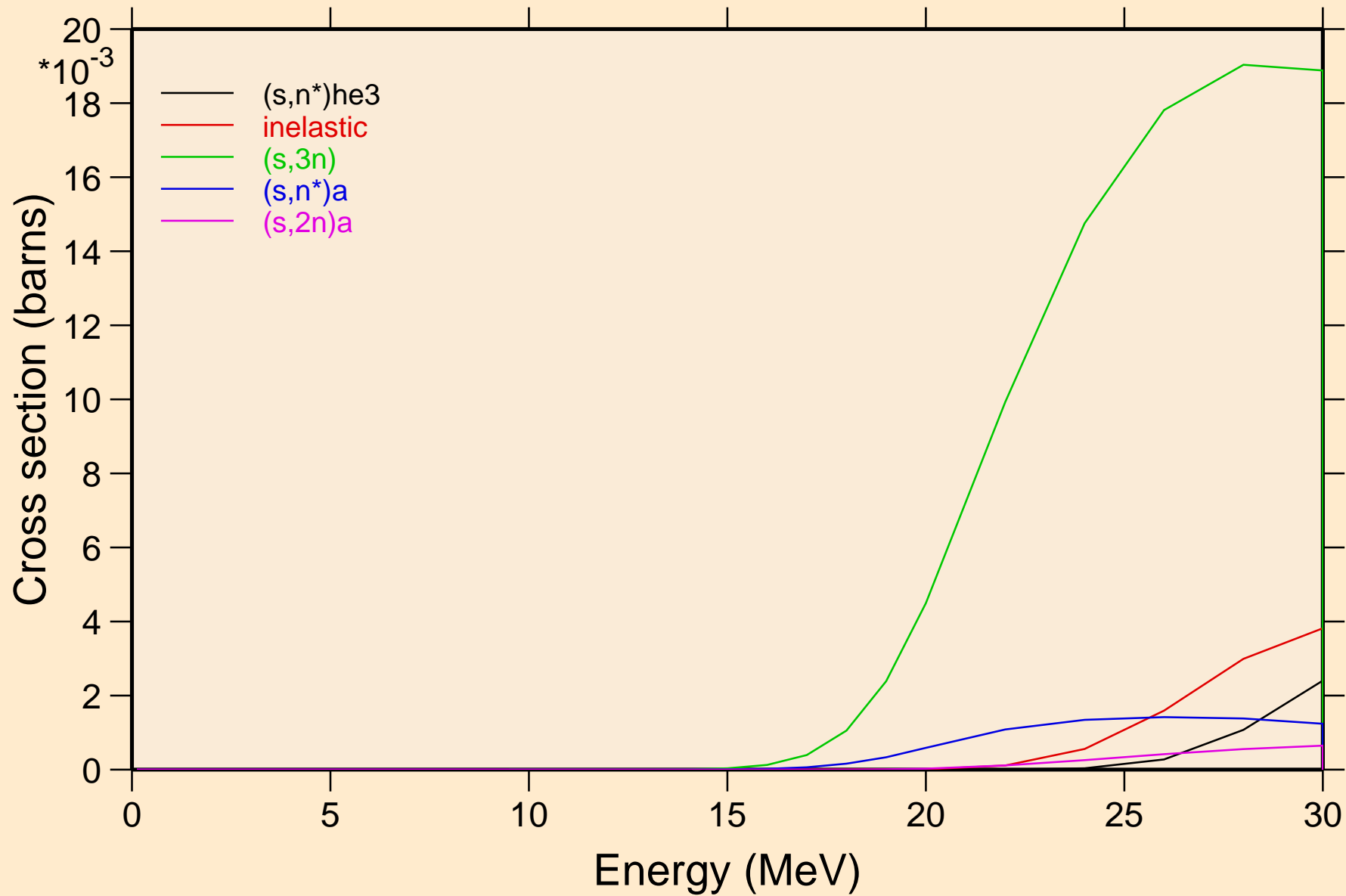
Heating



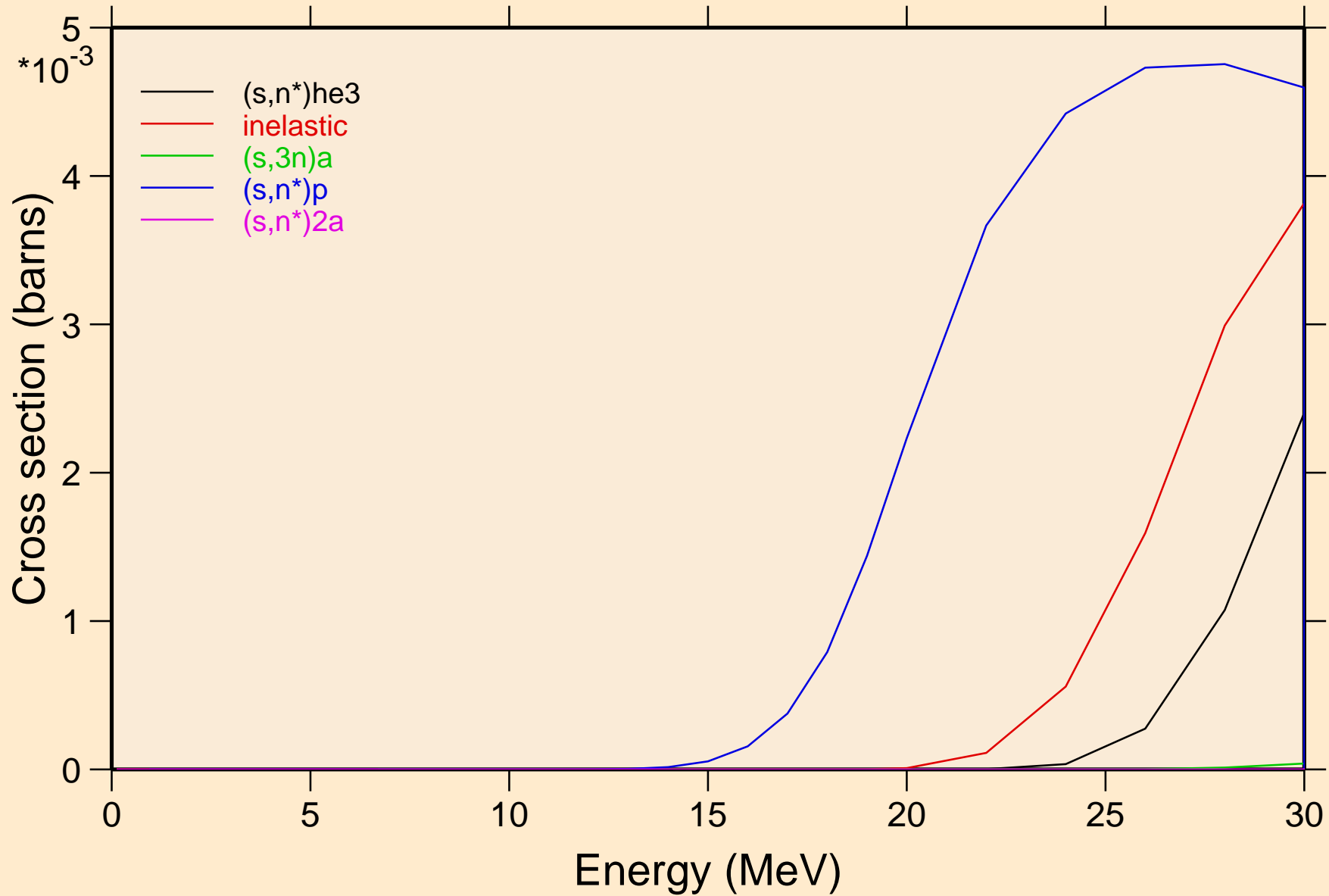
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Threshold reactions



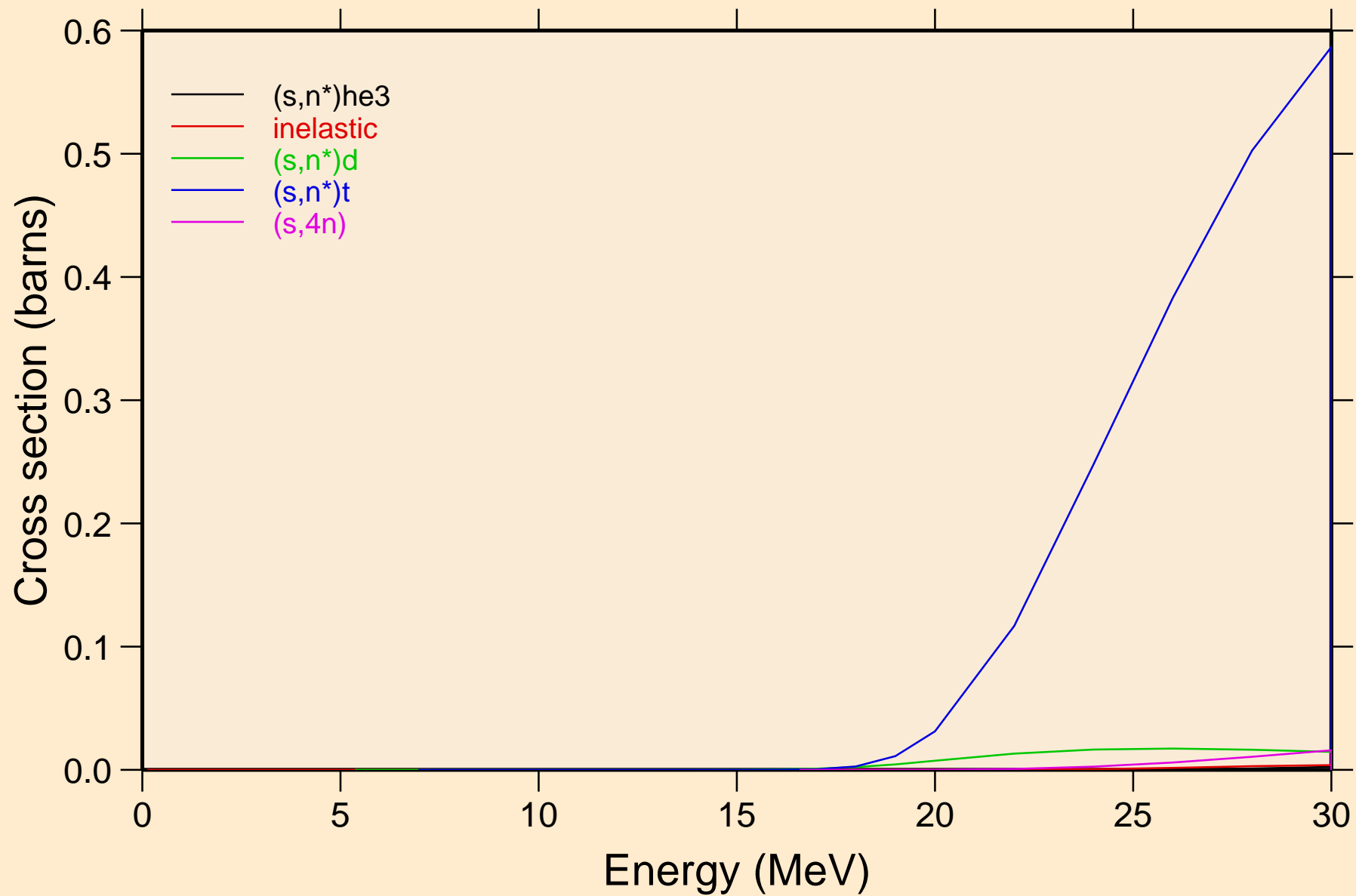
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Threshold reactions



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

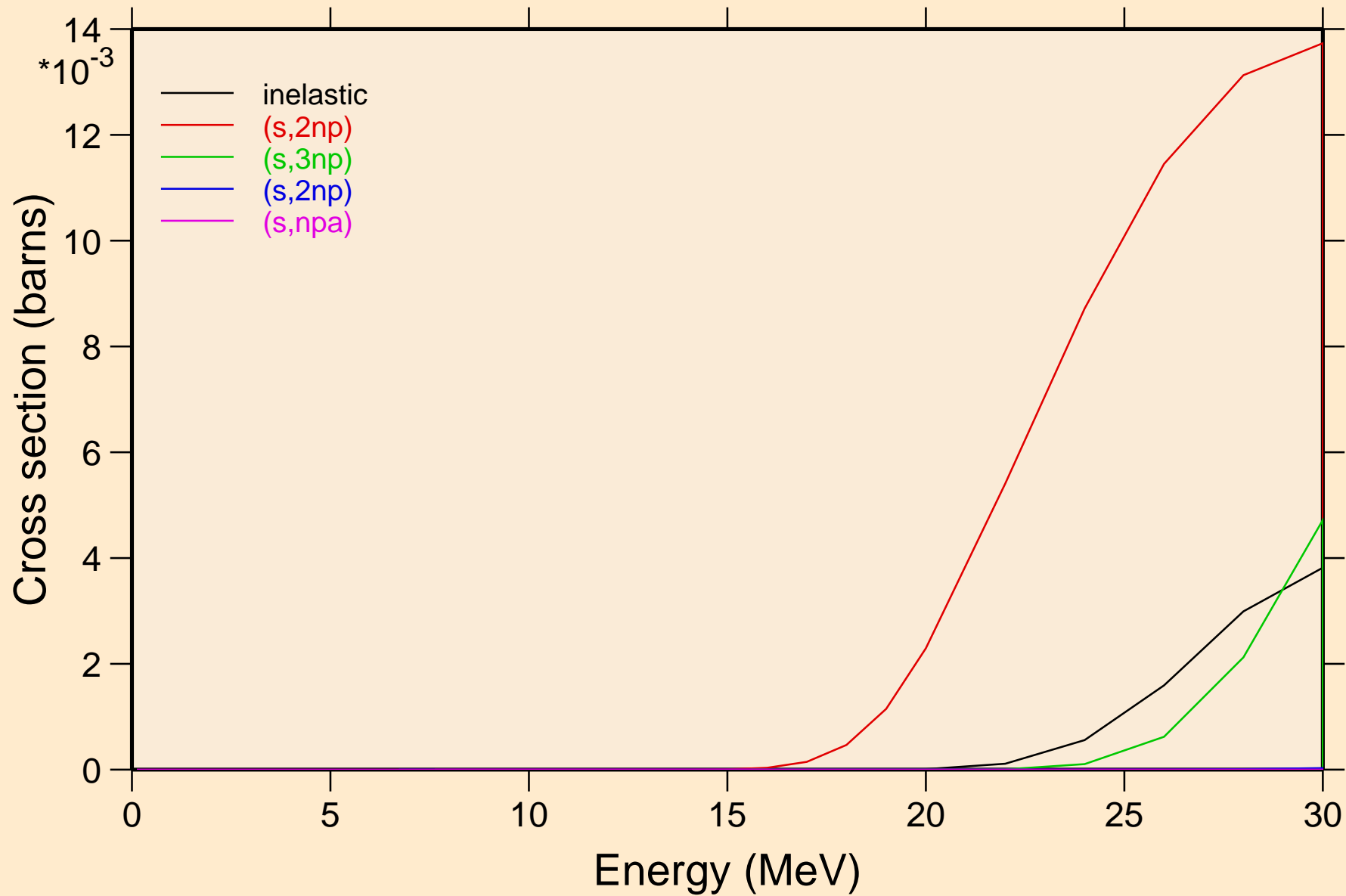


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Threshold reactions

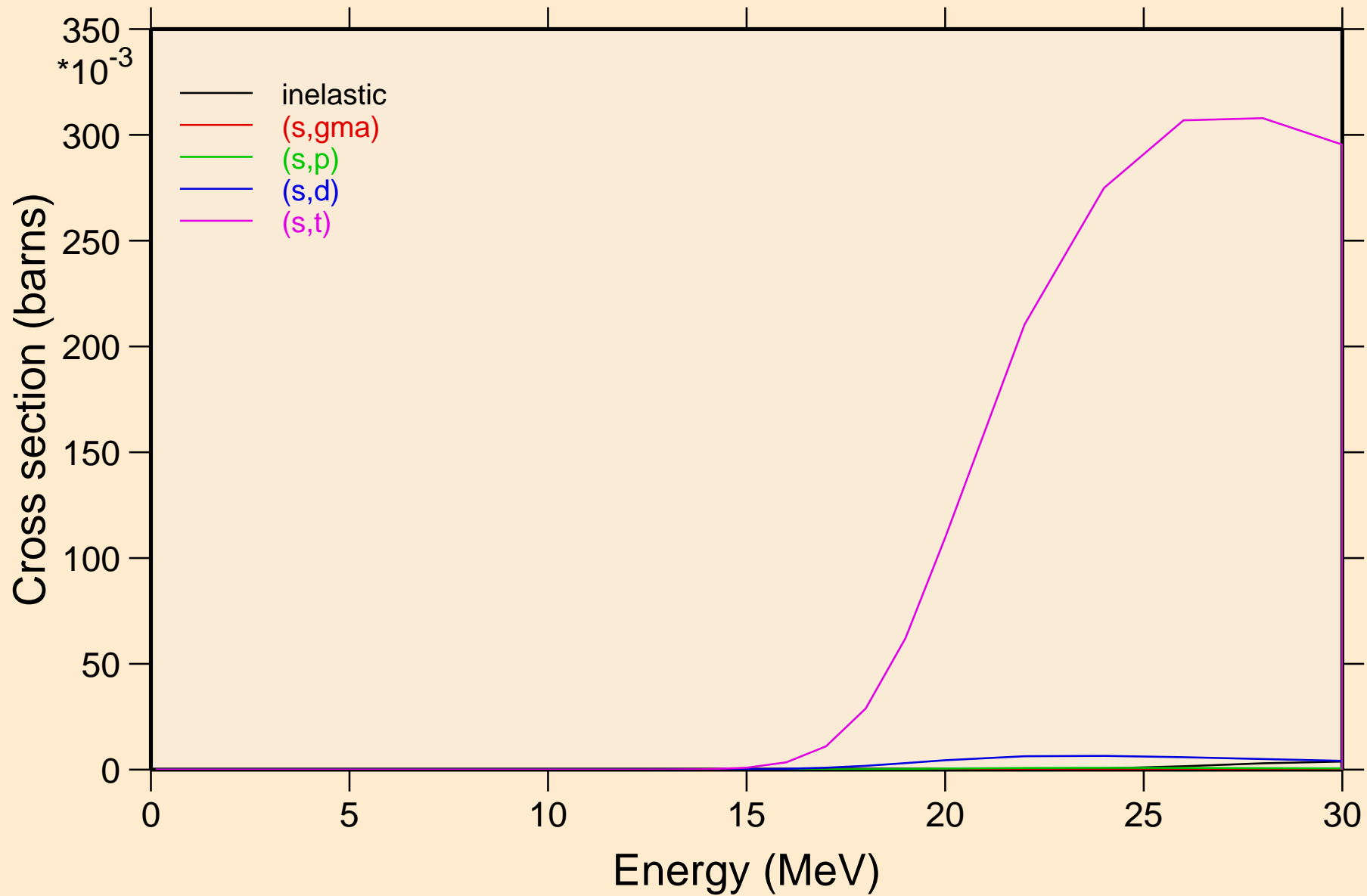




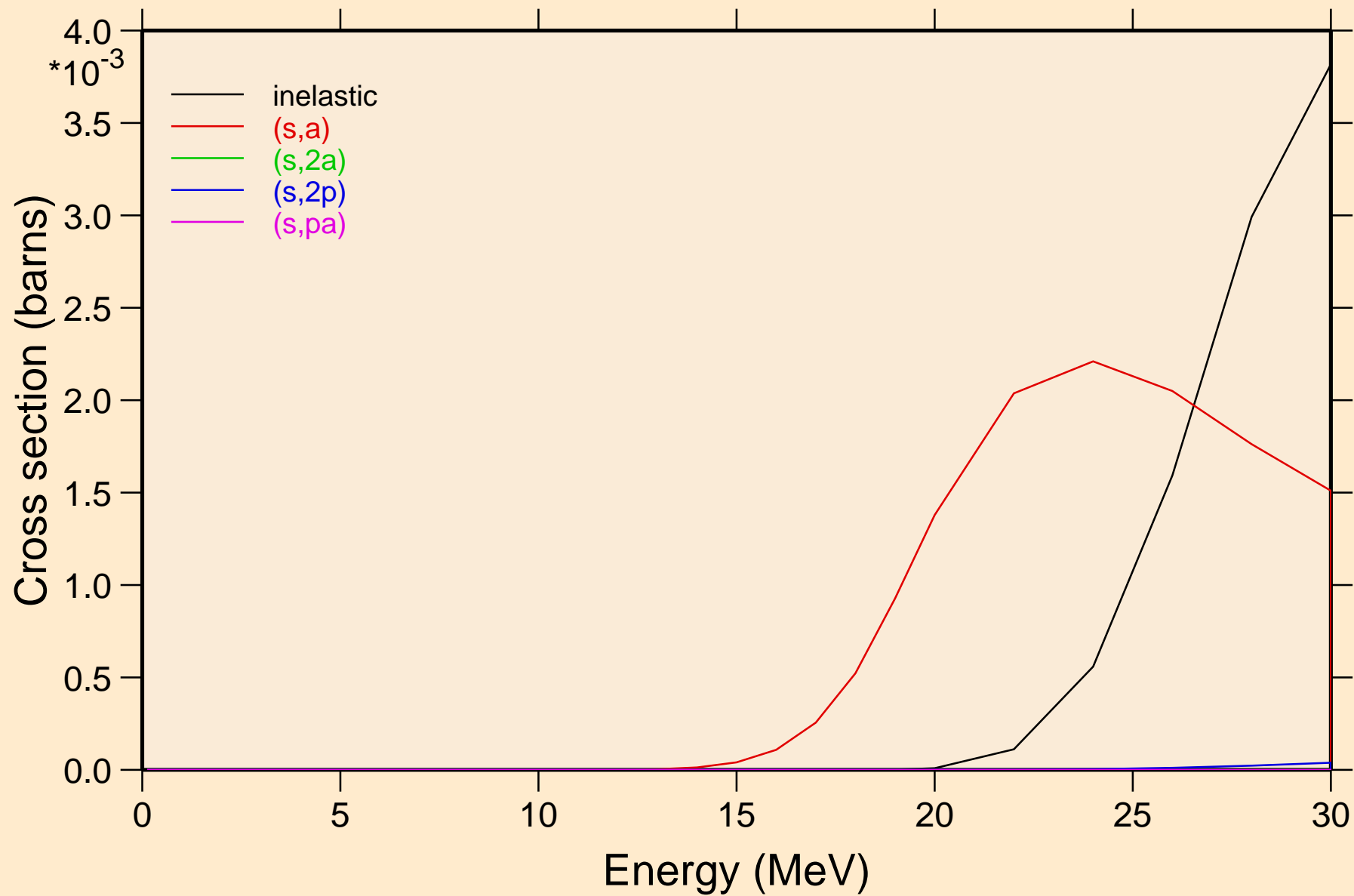
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Threshold reactions



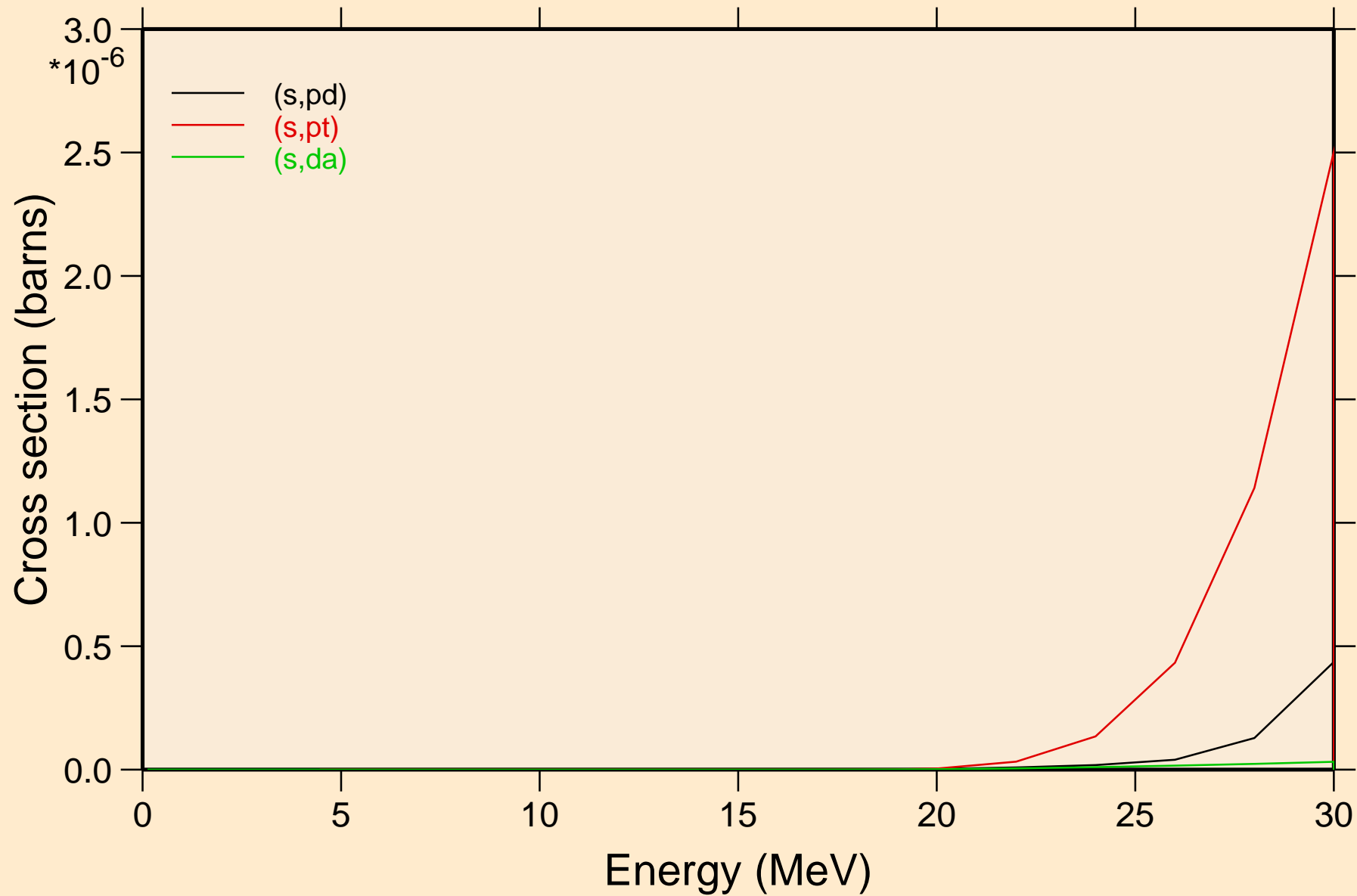
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Threshold reactions



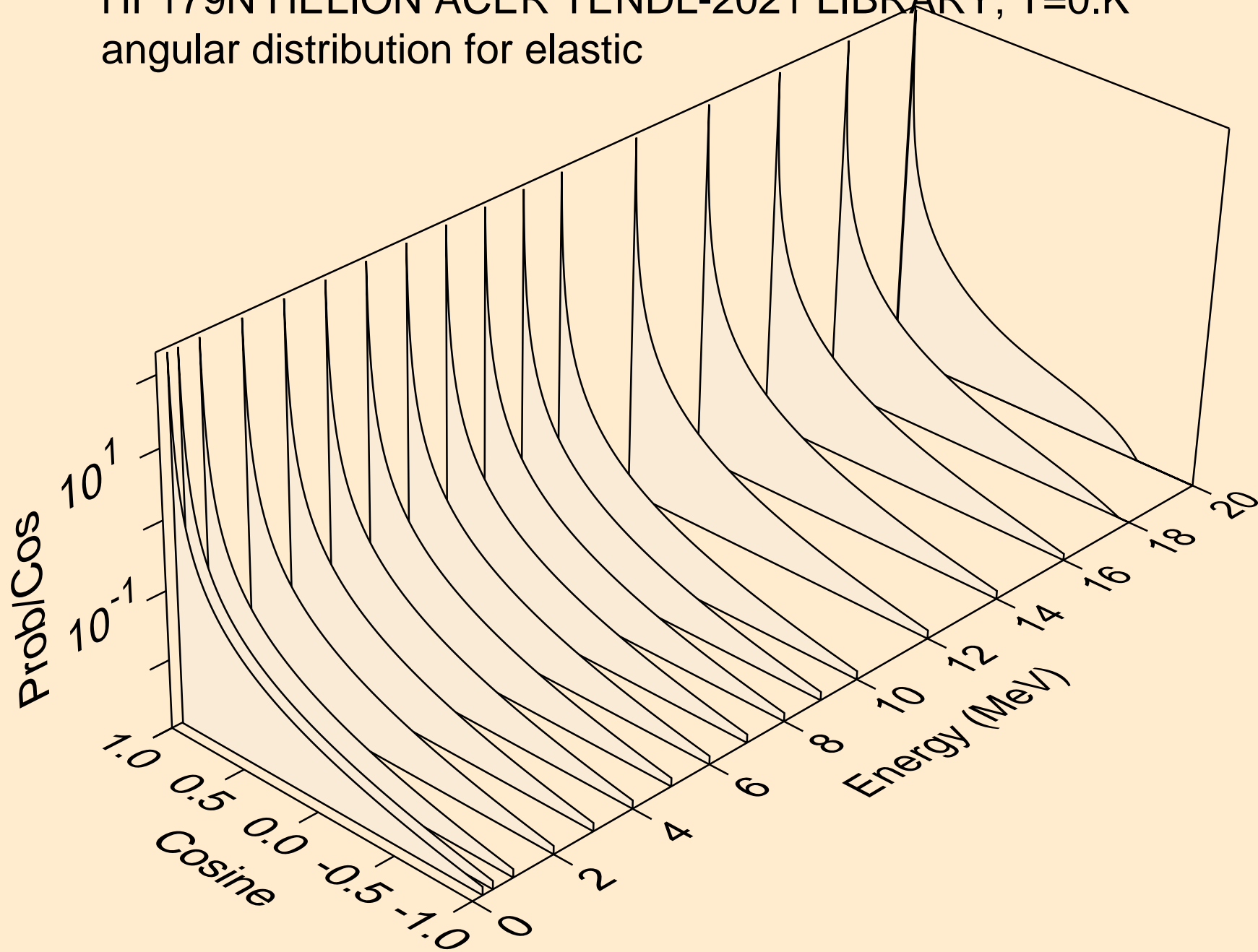
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Threshold reactions



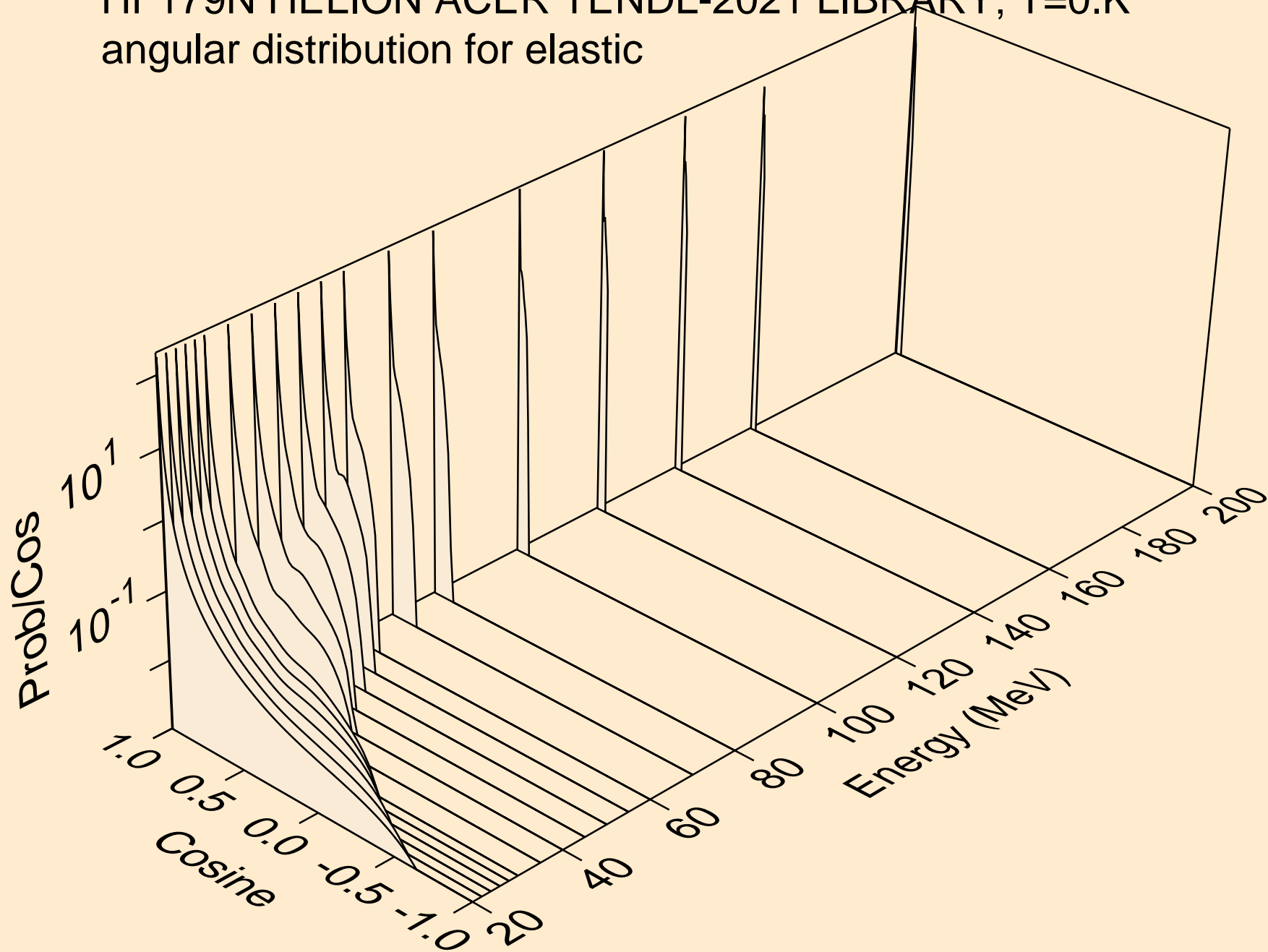
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Threshold reactions



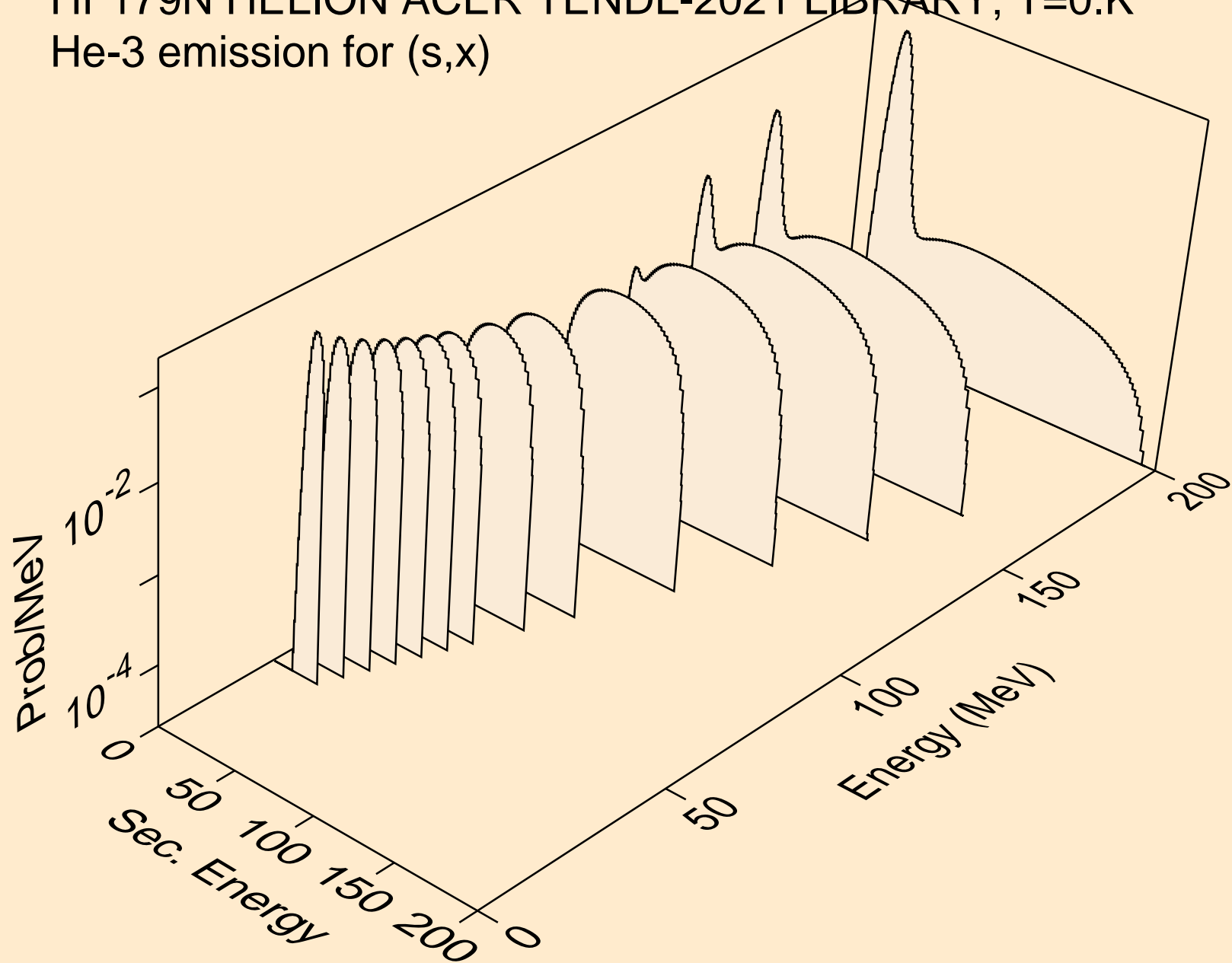
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



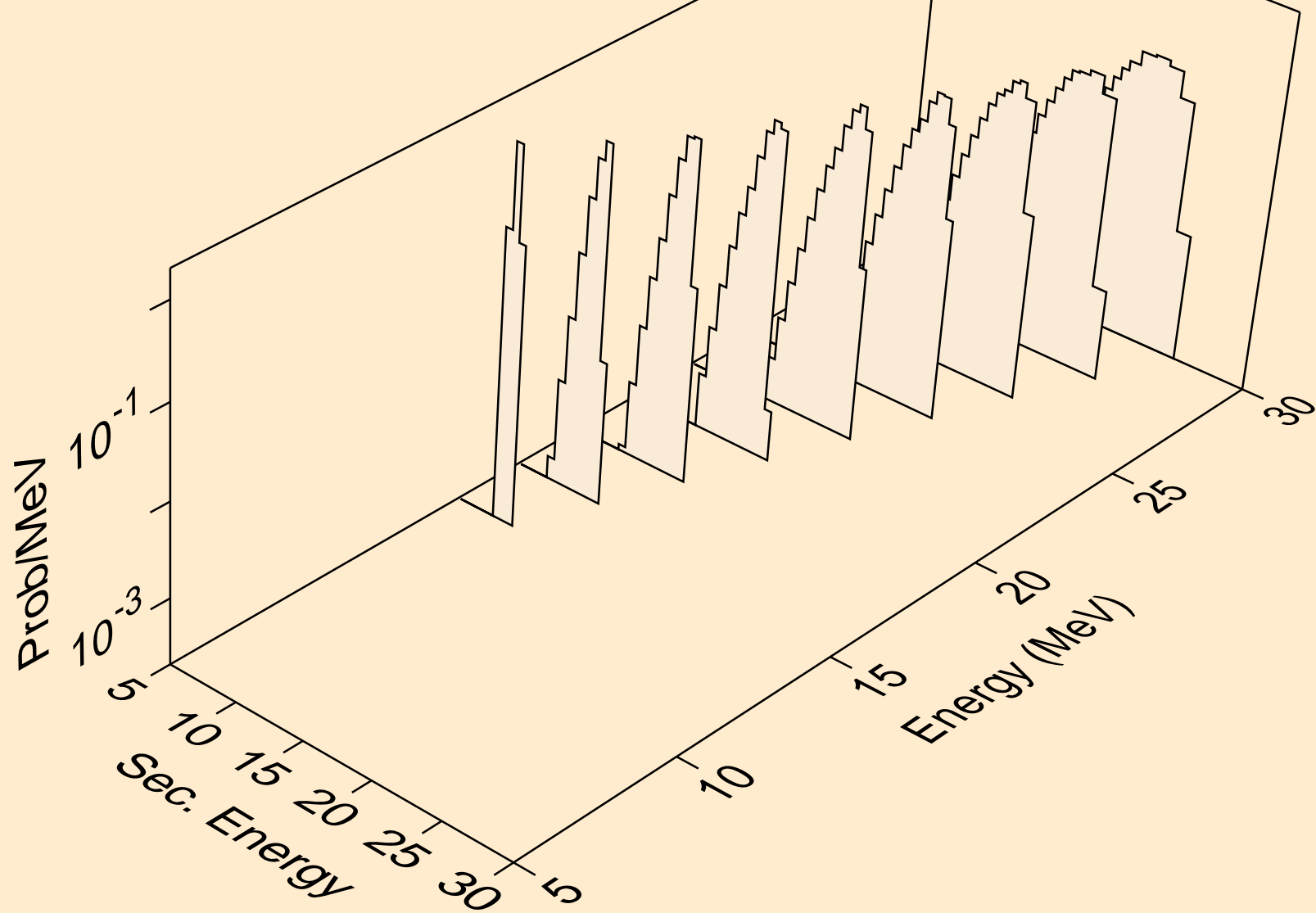
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,x)

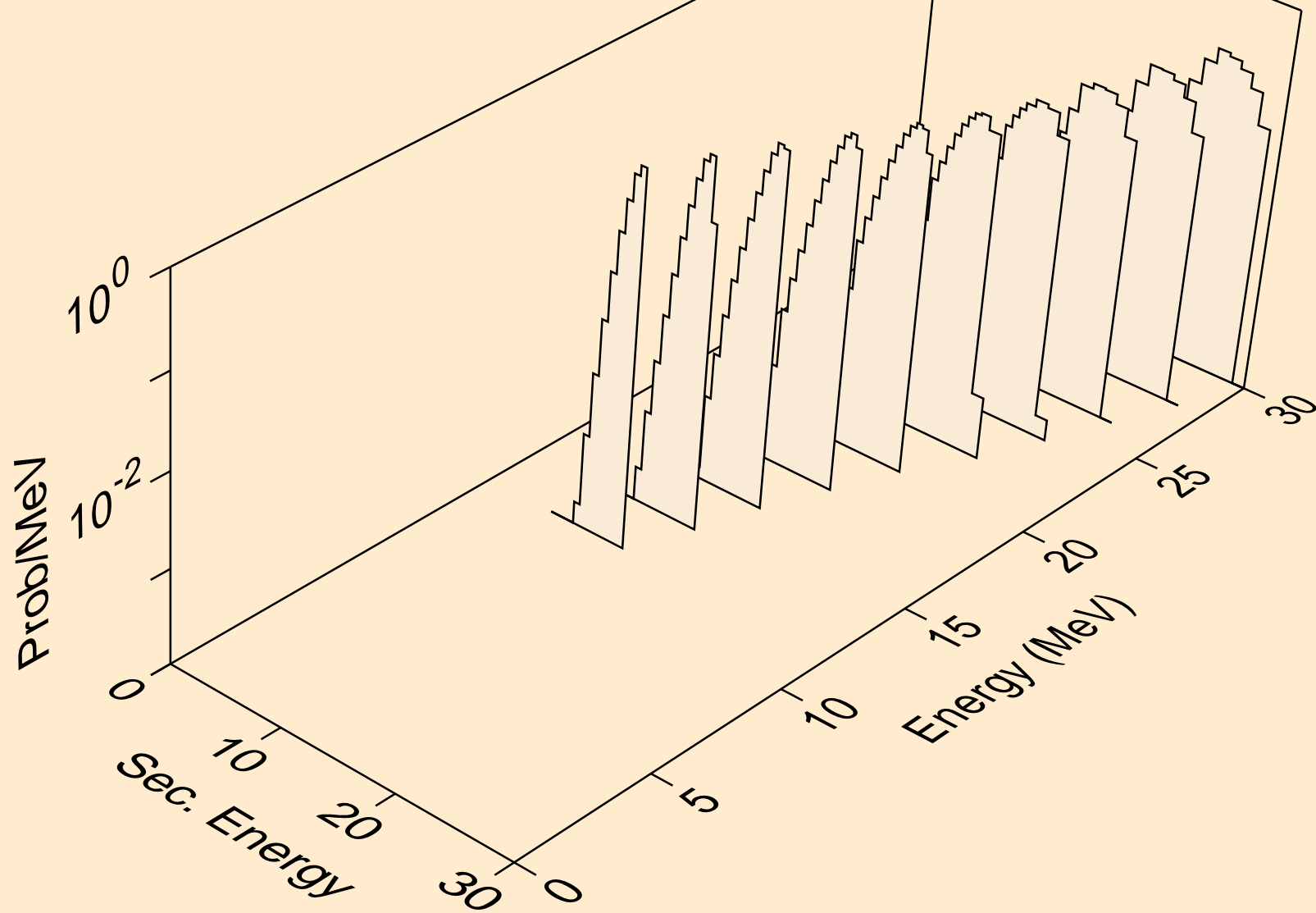


HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

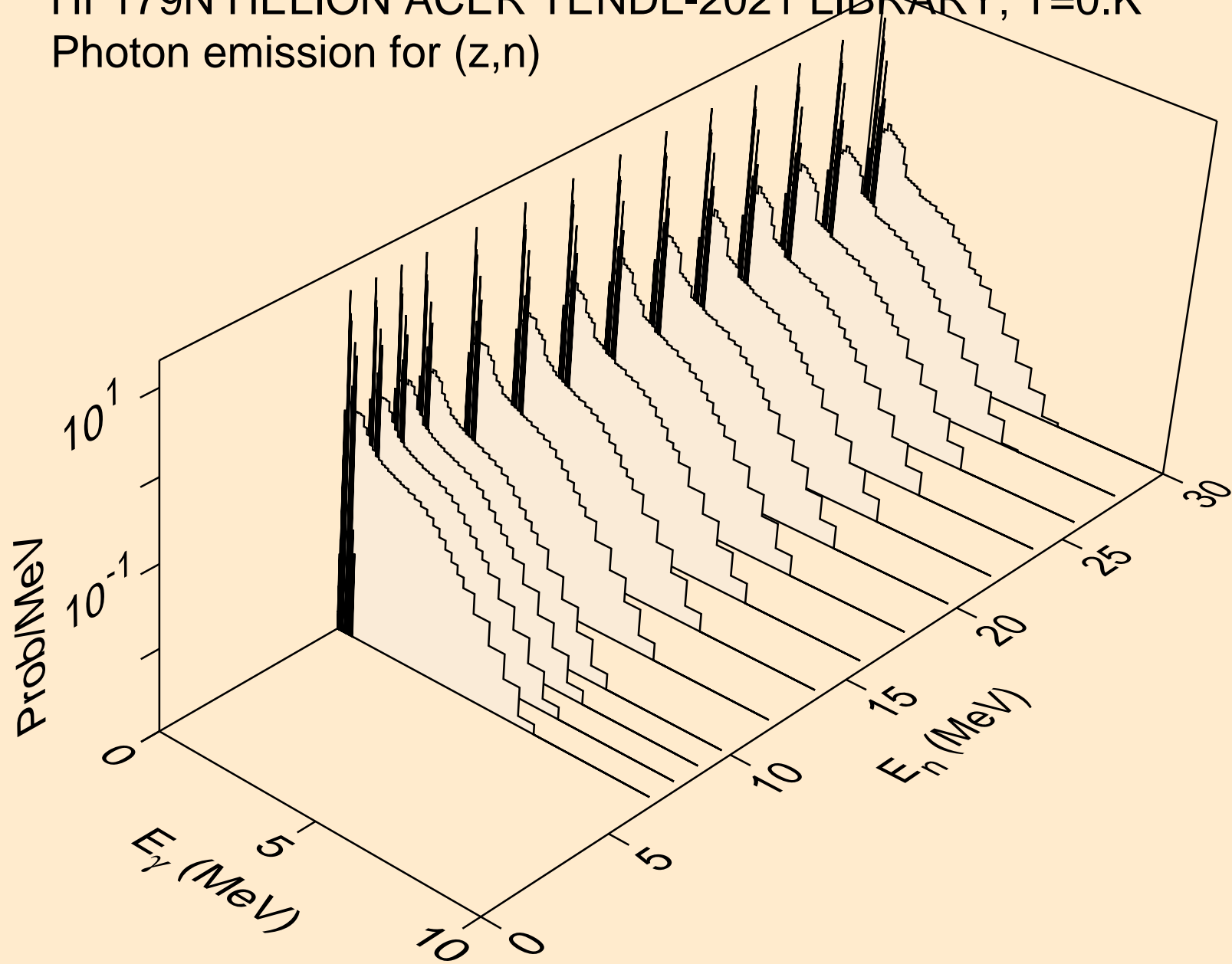




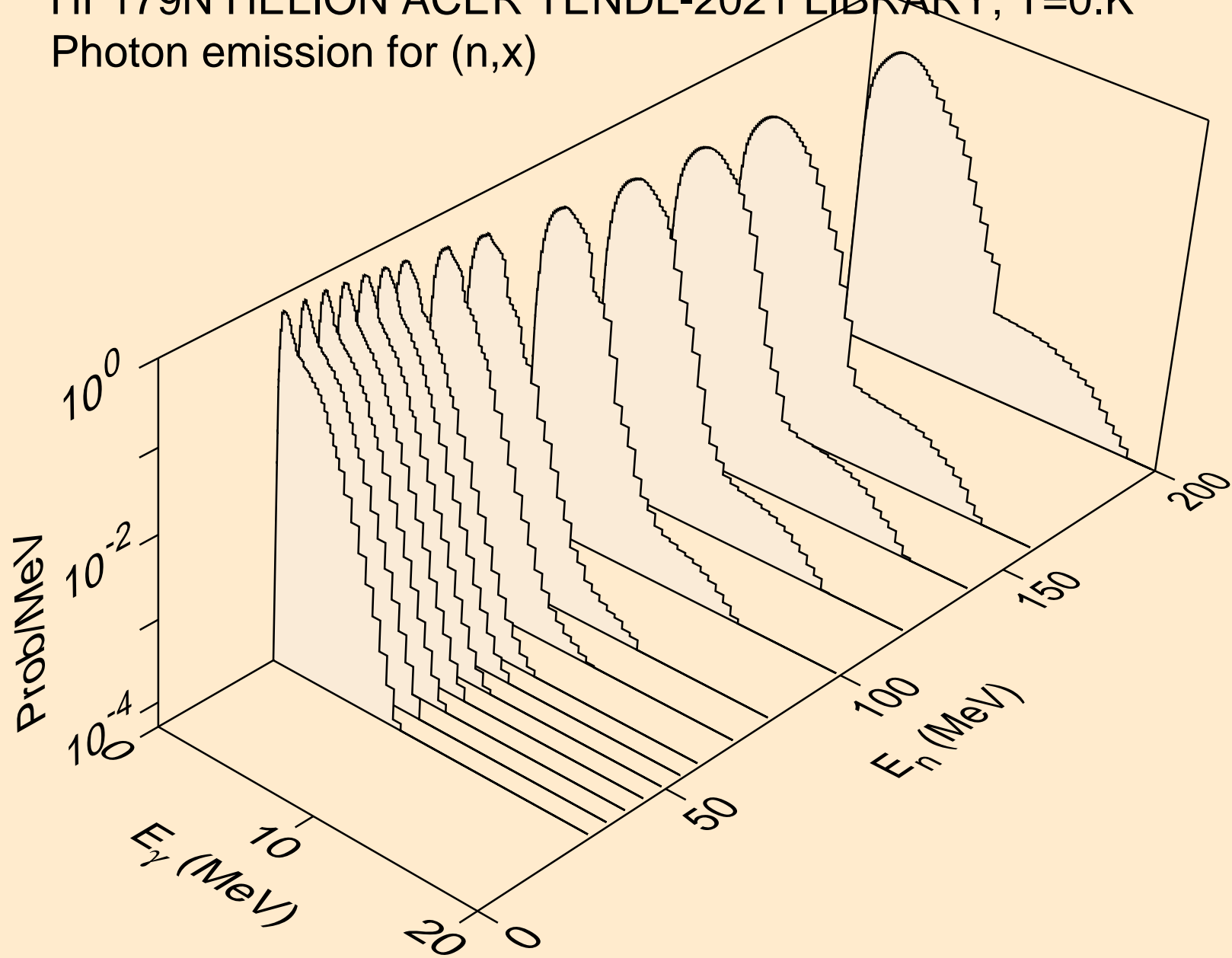
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for inelastic



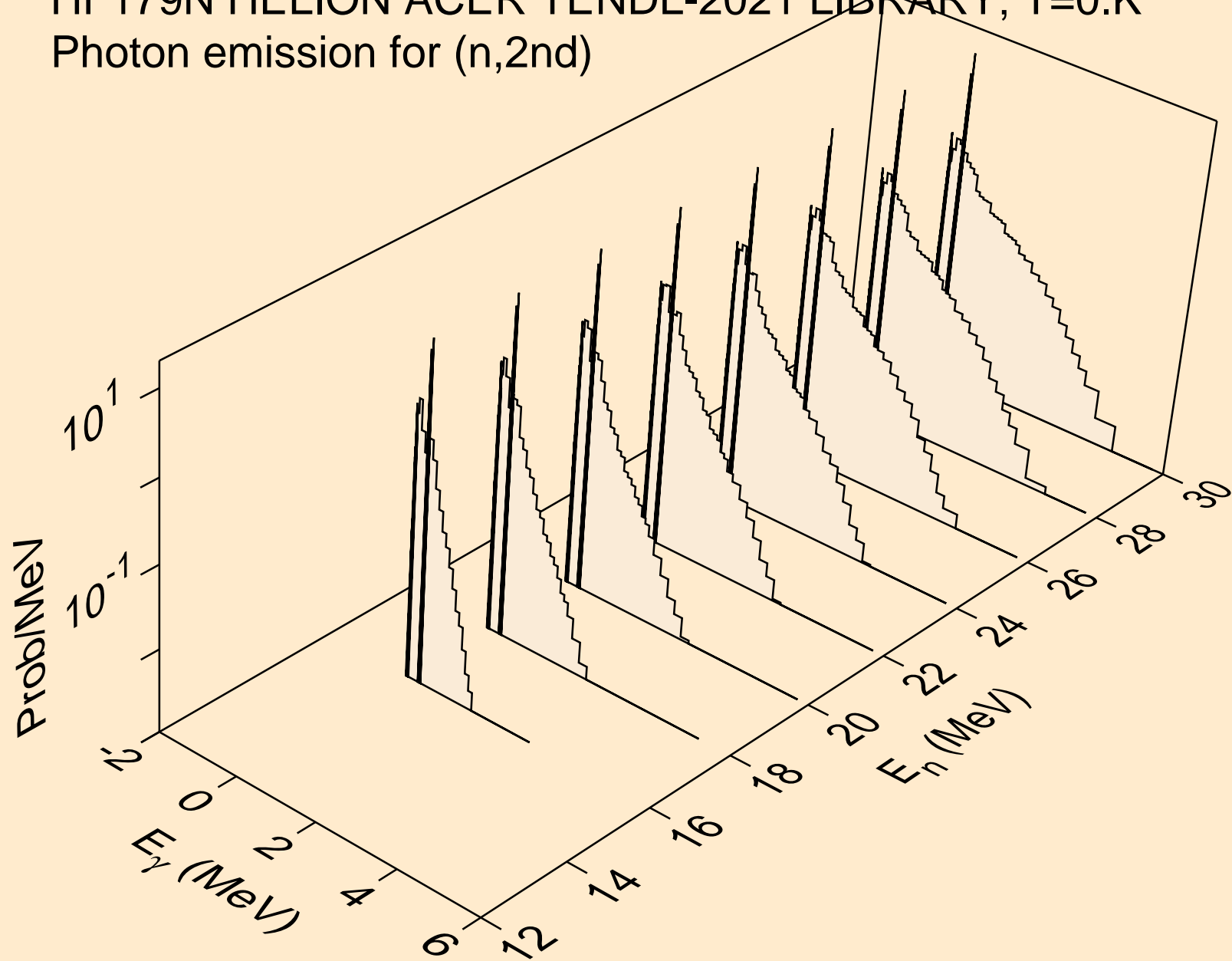
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Photon emission for (z,n)



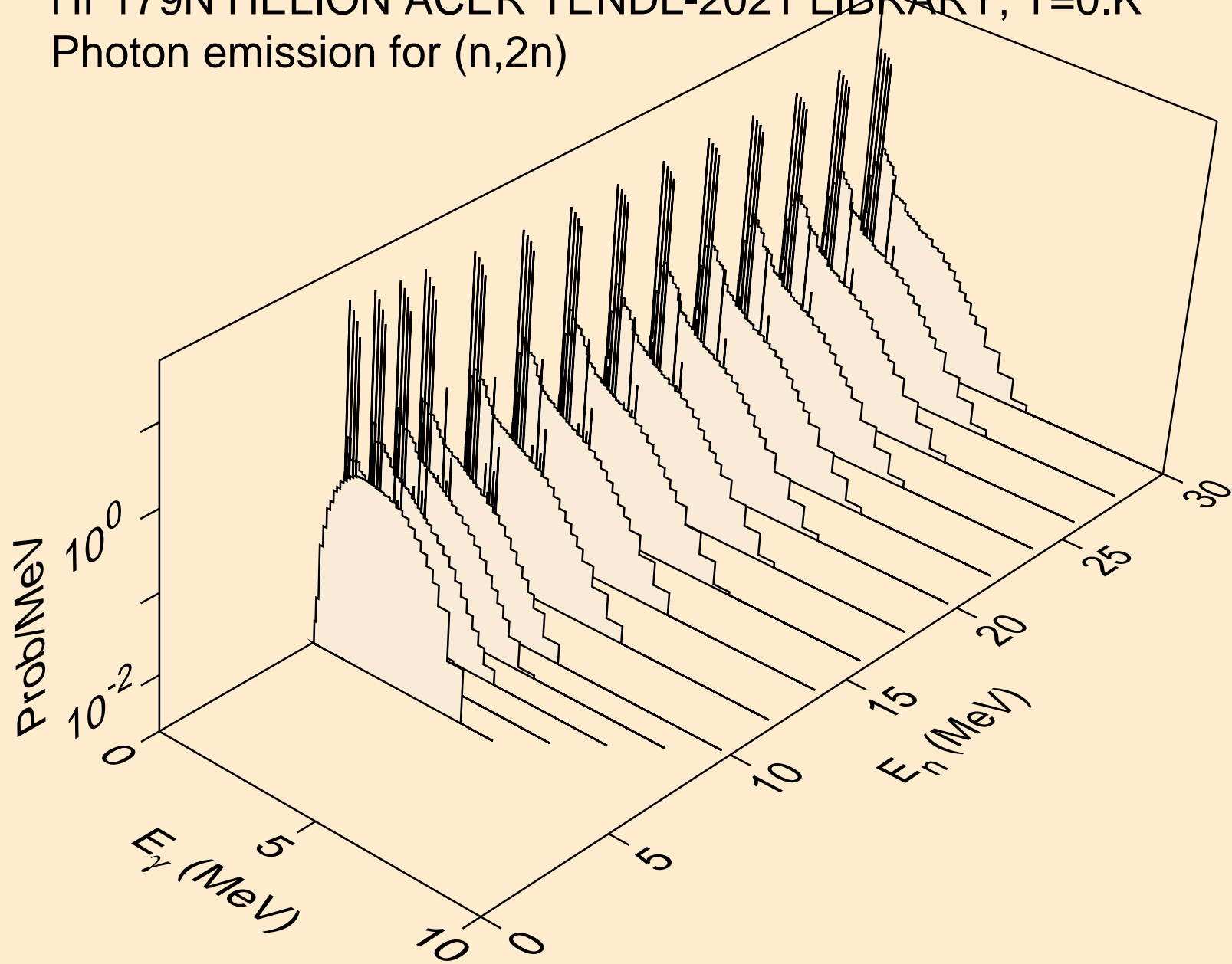
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Photon emission for (n,x)



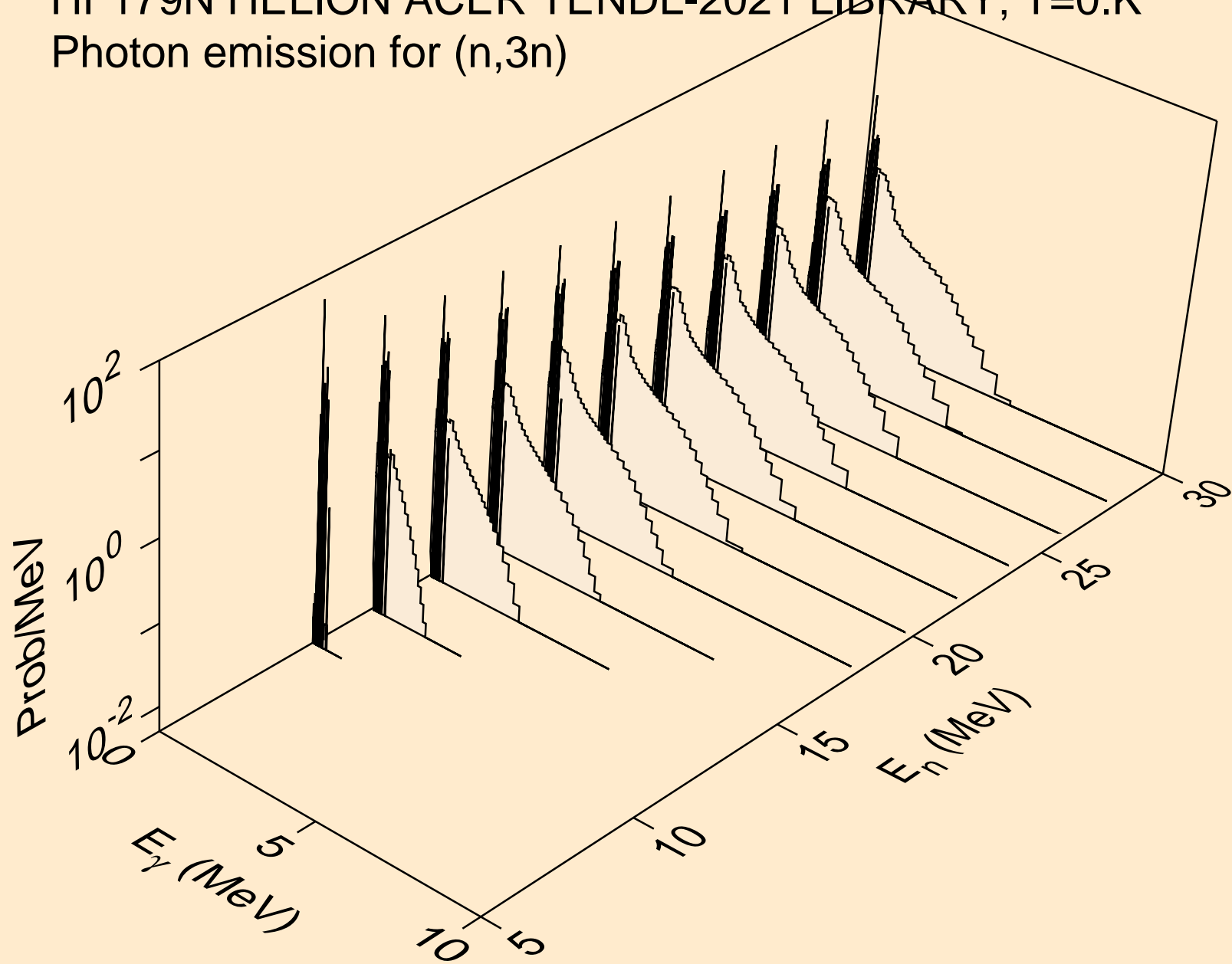
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Photon emission for (n,2nd)



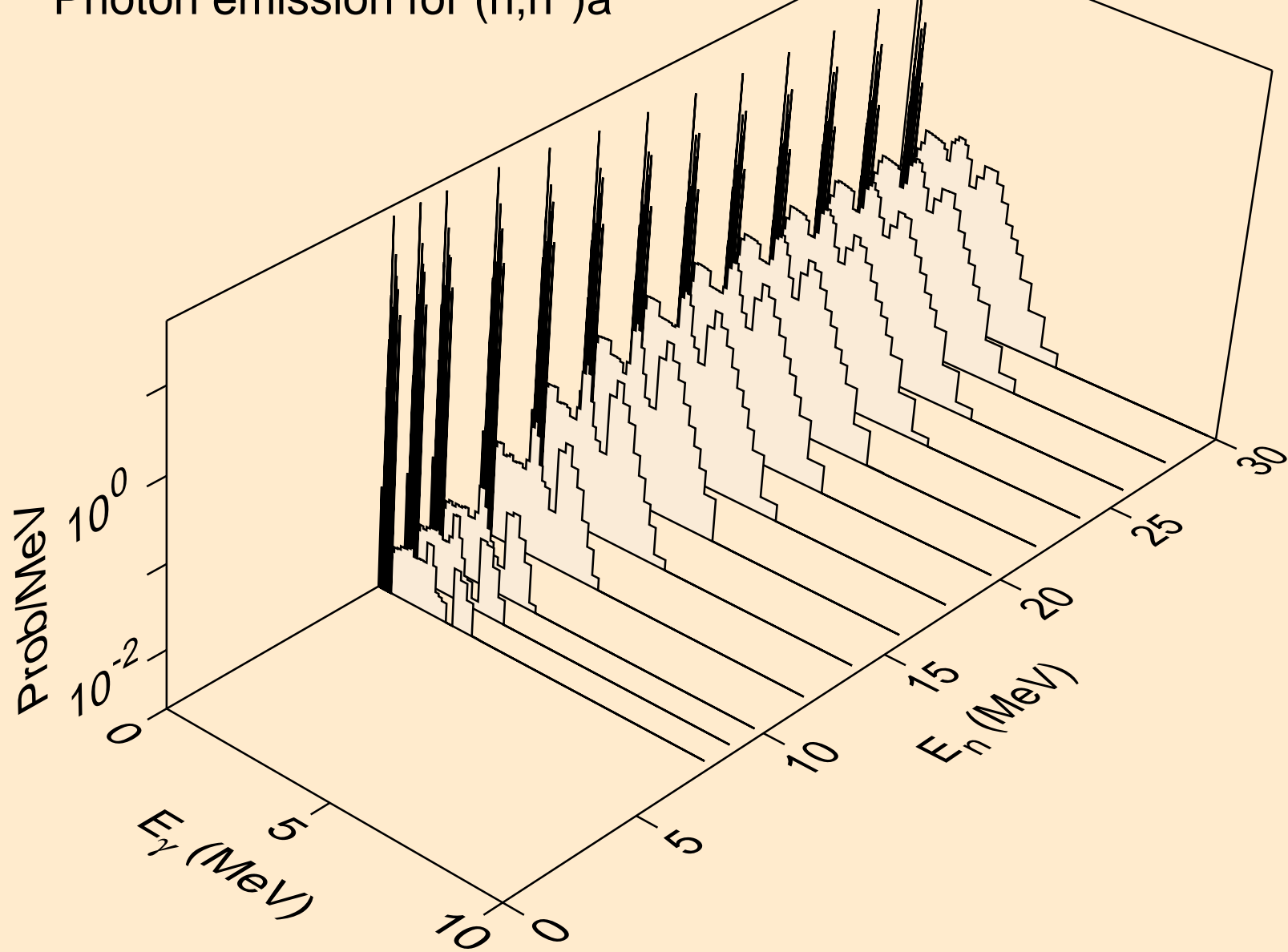
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



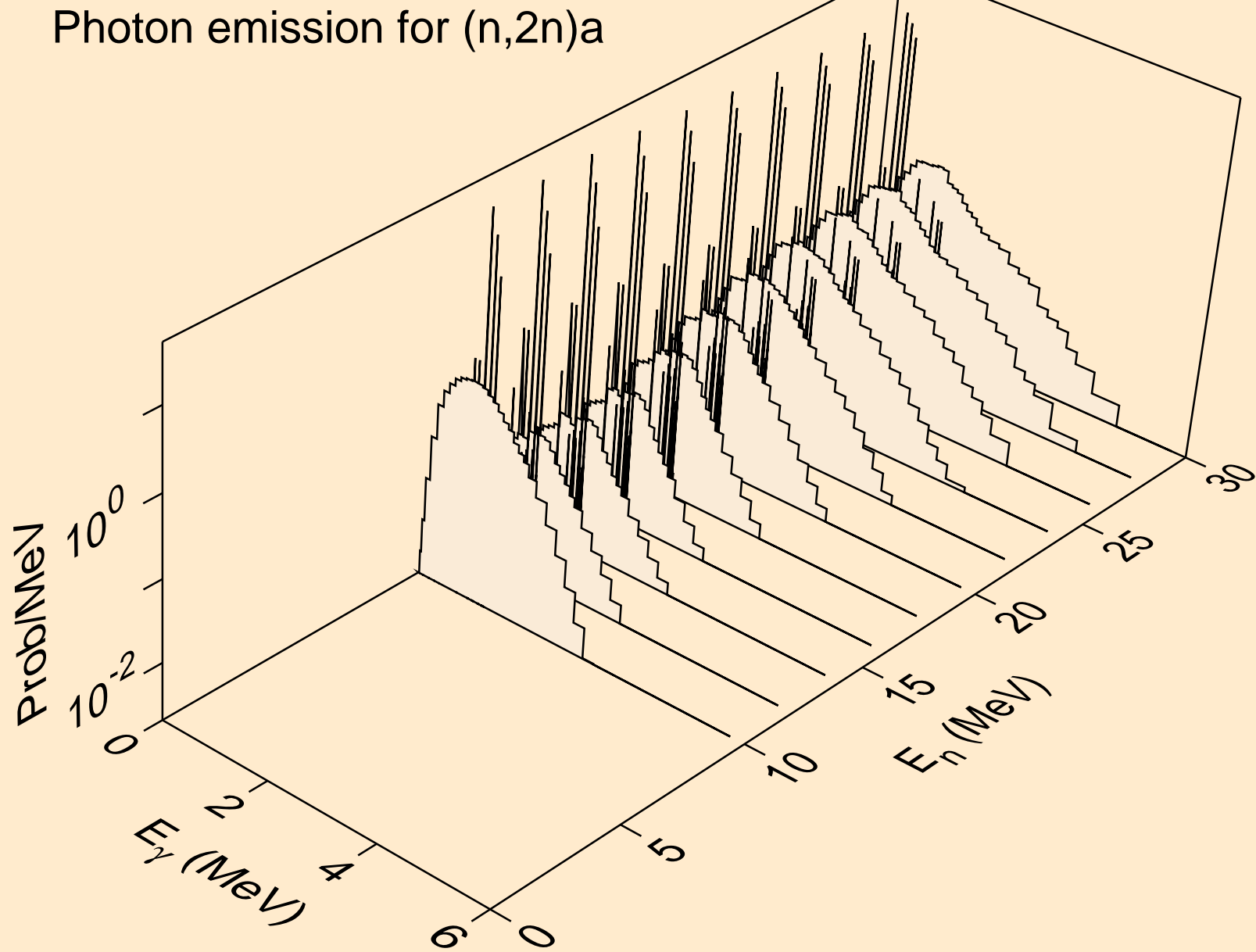
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

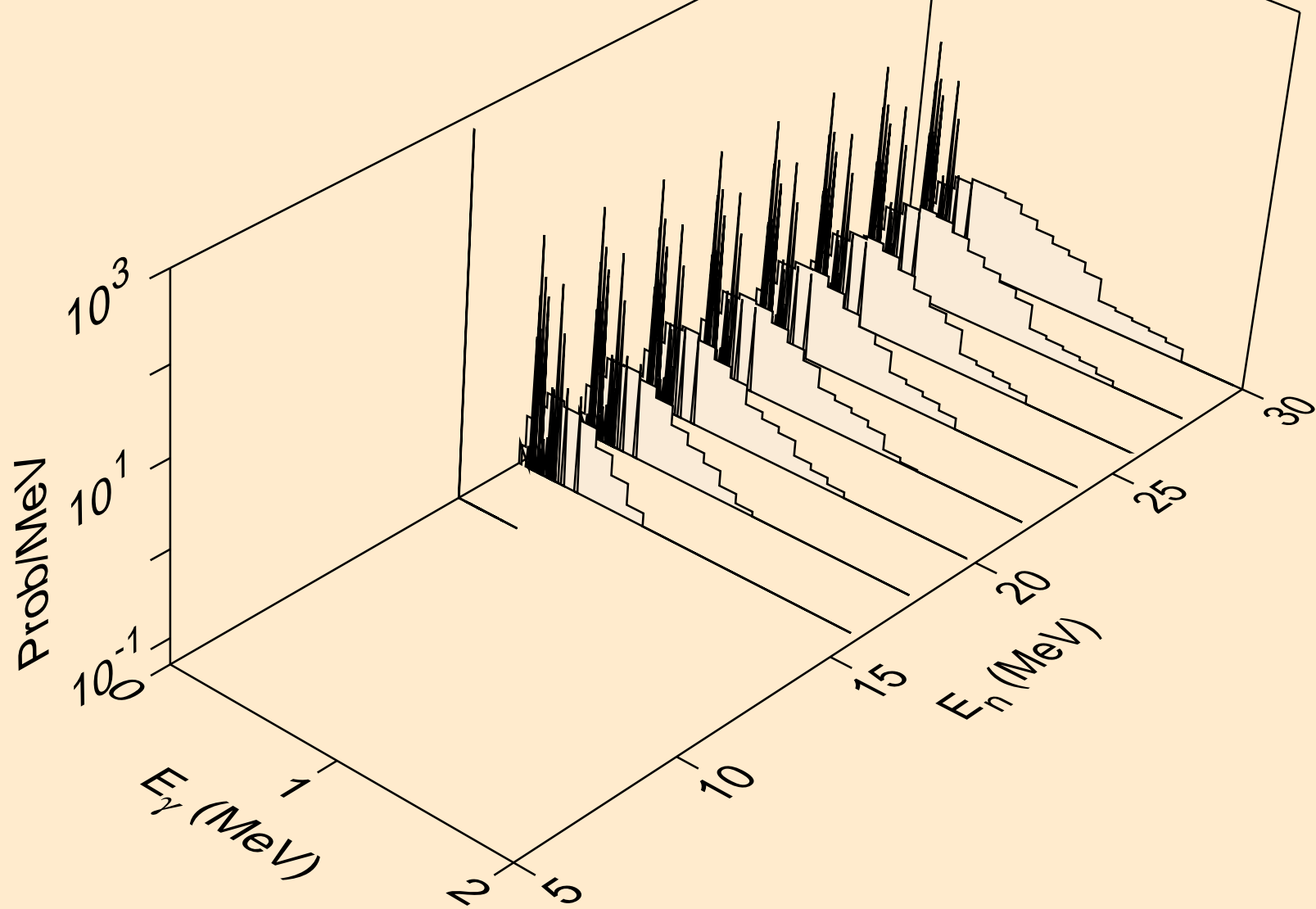


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Photon emission for (n,2n)a

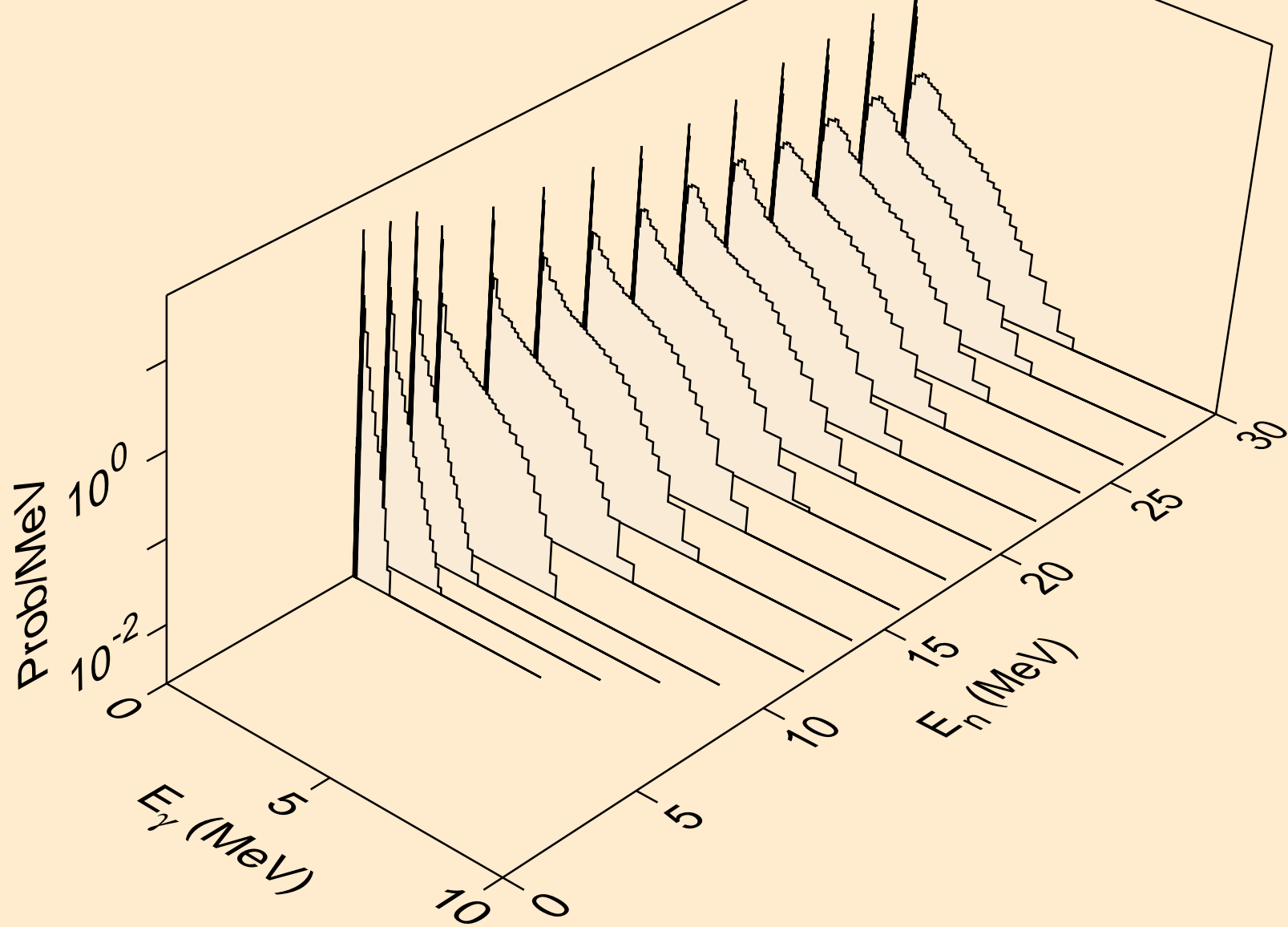




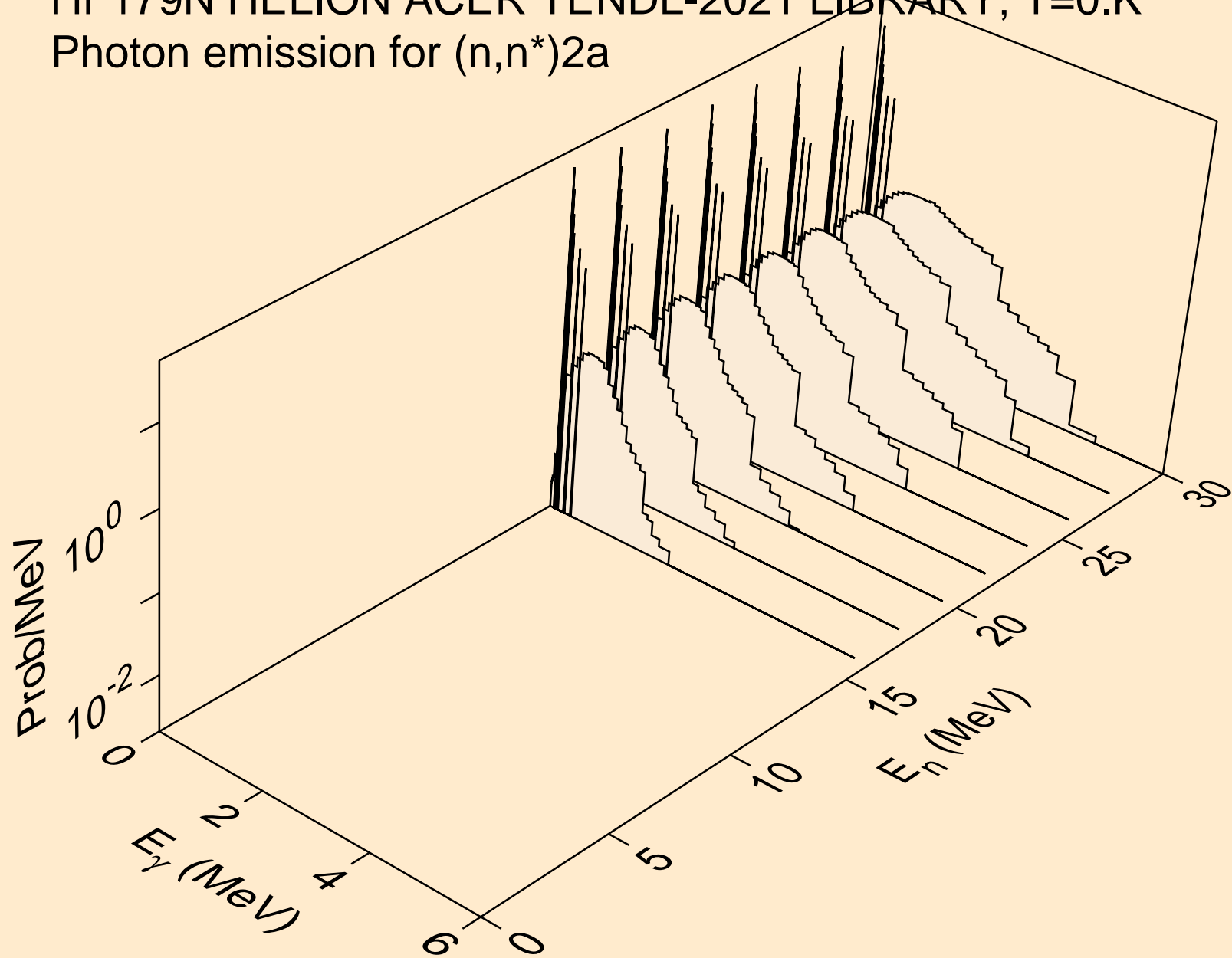
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Photon emission for (n,3n)a



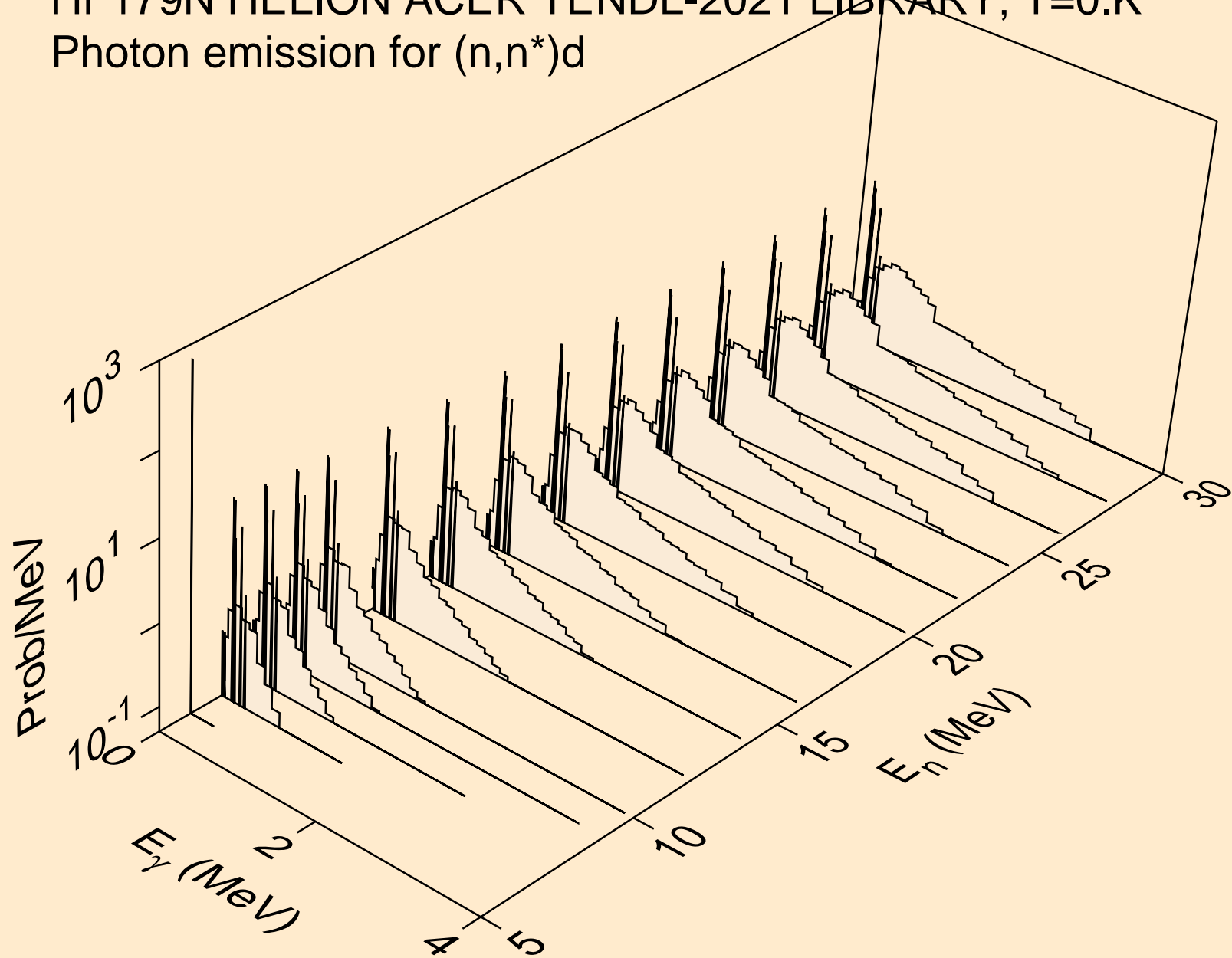
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Photon emission for (n,n\*)p



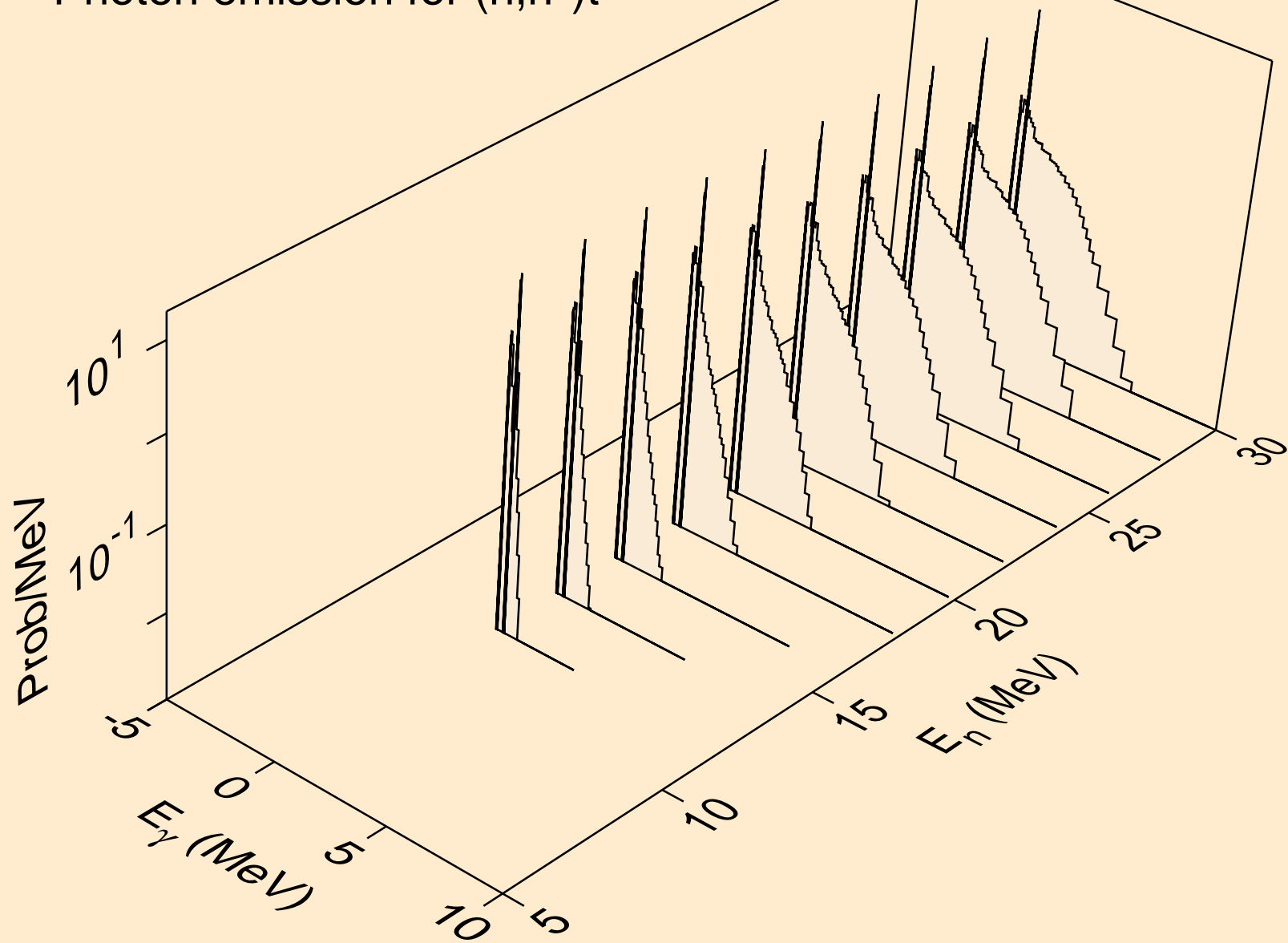
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Photon emission for (n,n\*)2a



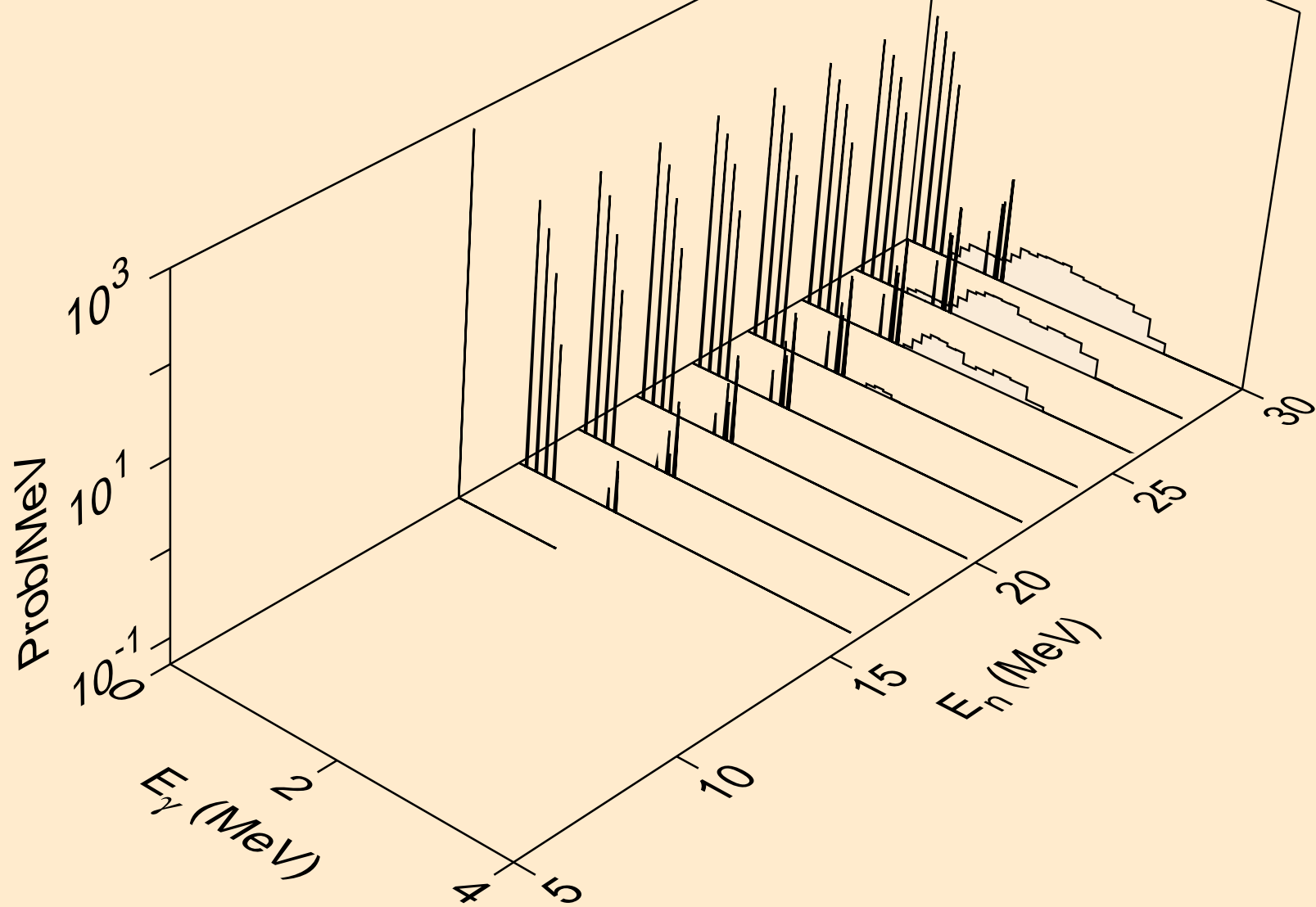
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Photon emission for (n,n\*)d



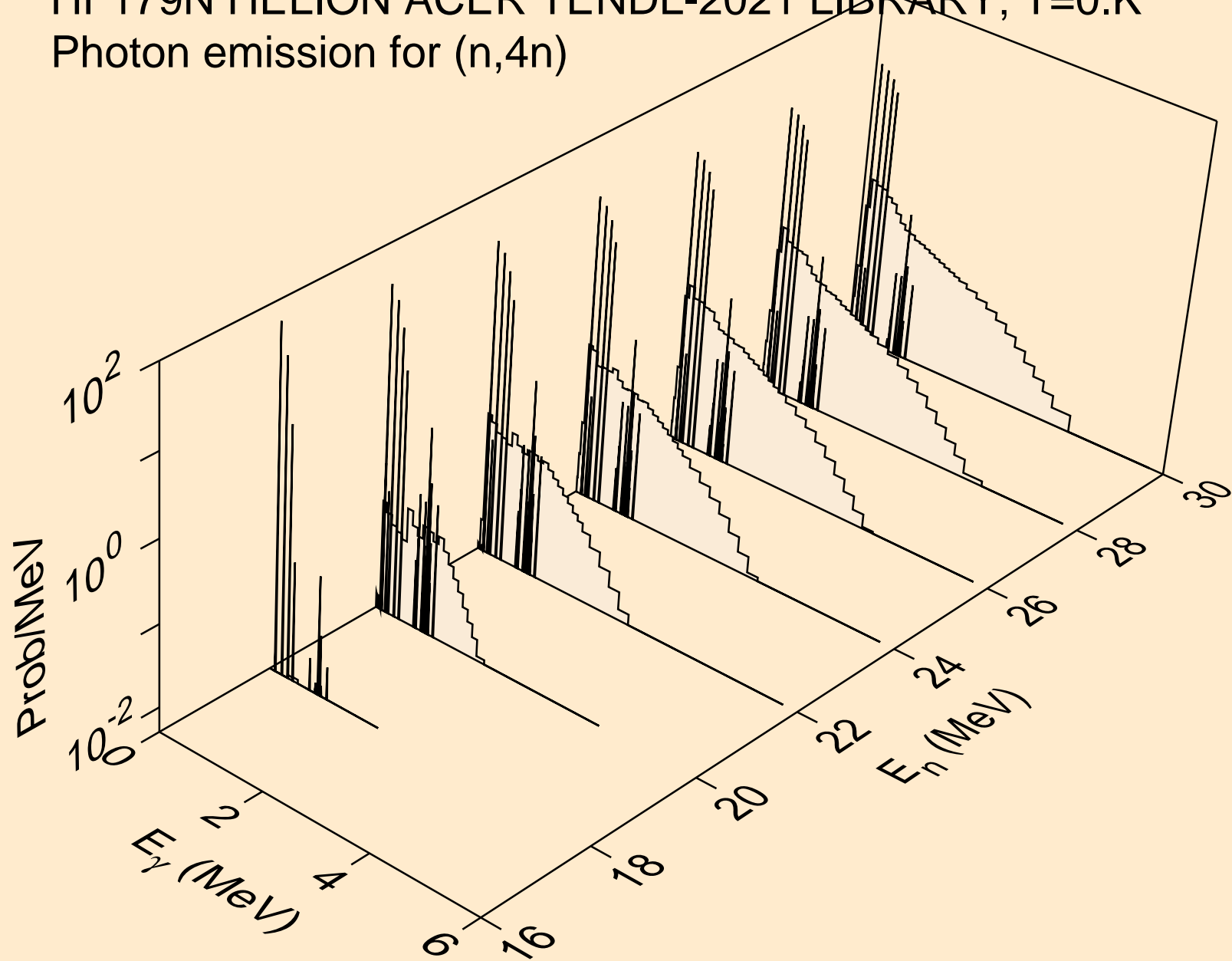
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Photon emission for (n,n\*)t



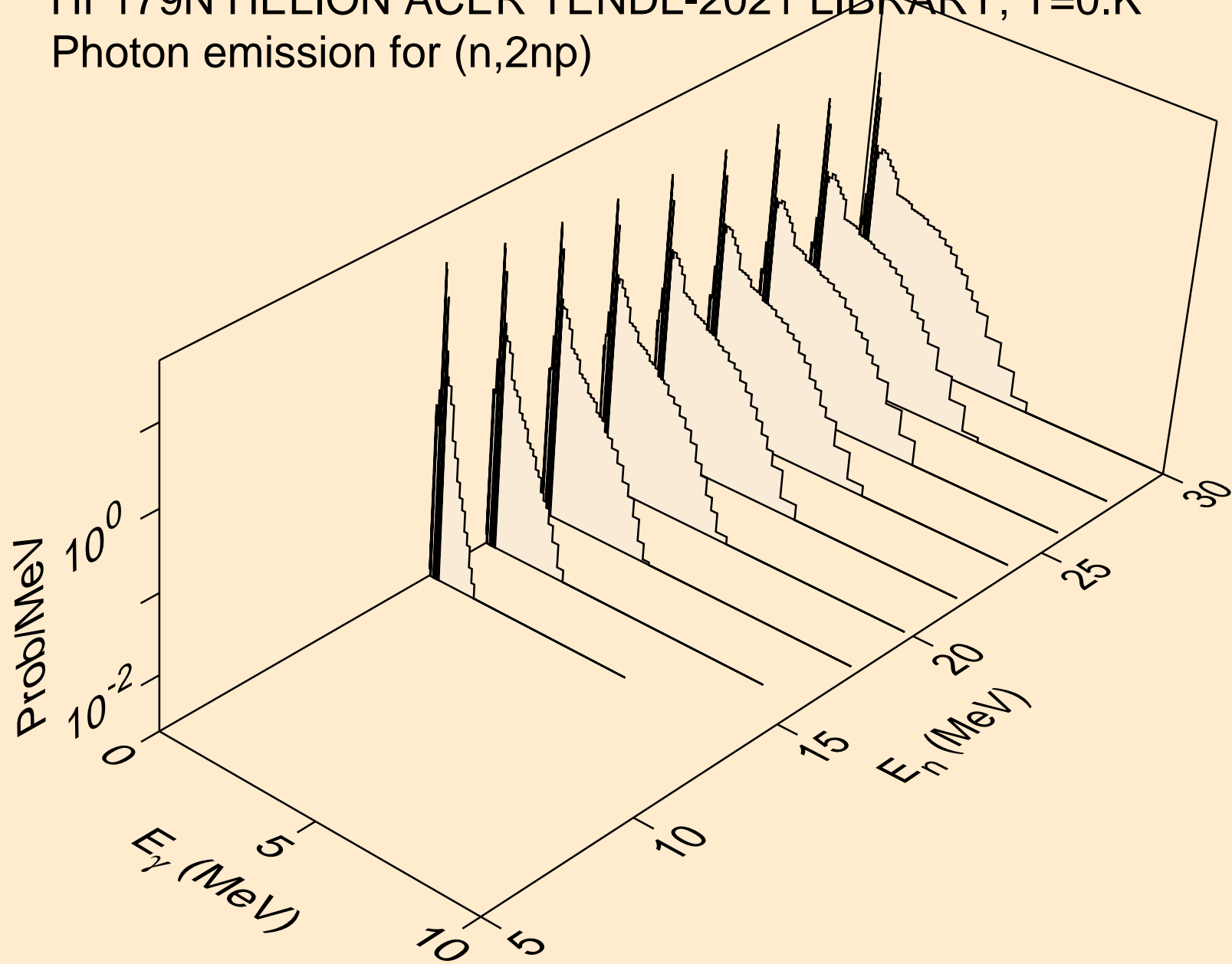
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,4n)

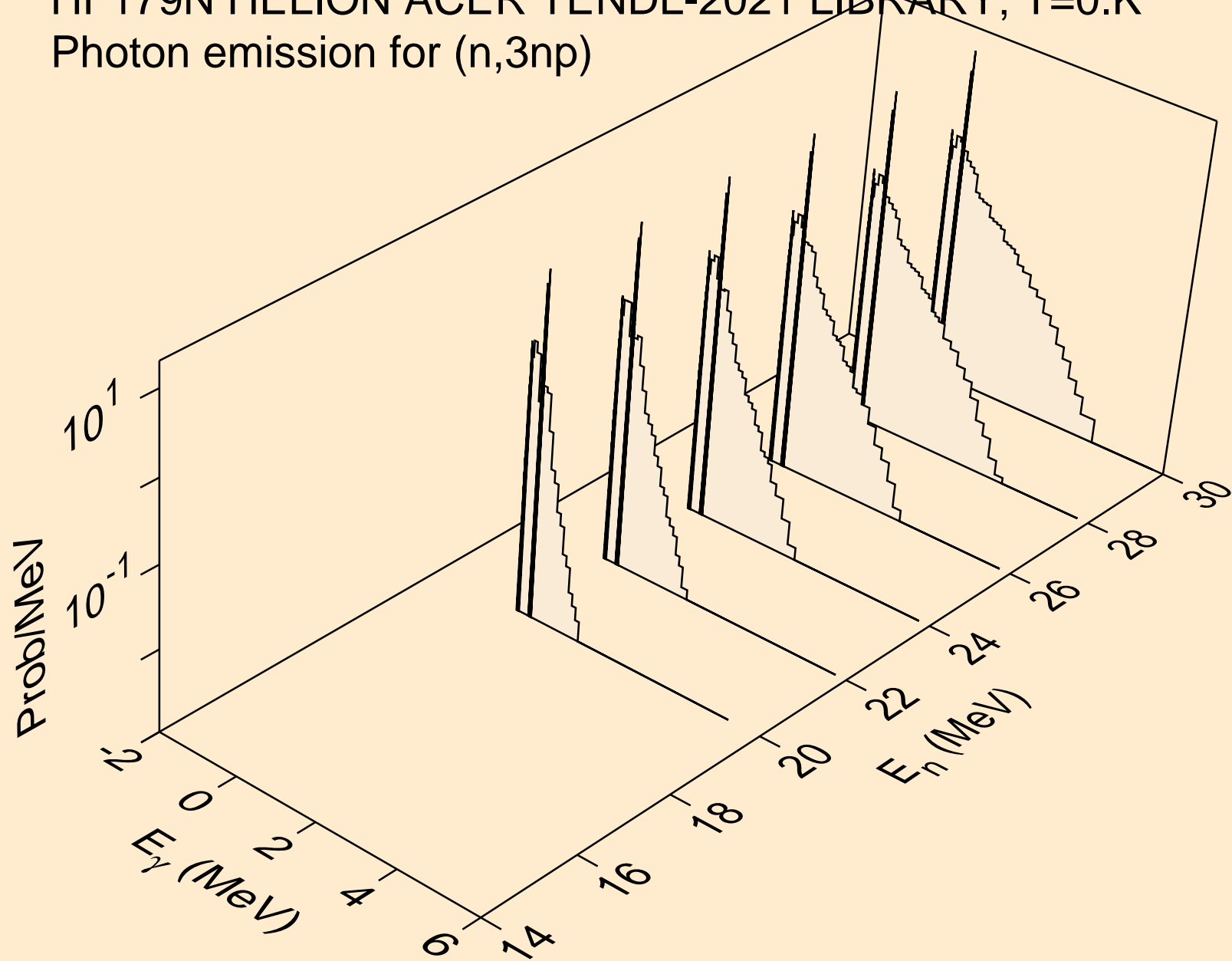


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Photon emission for (n,2np)

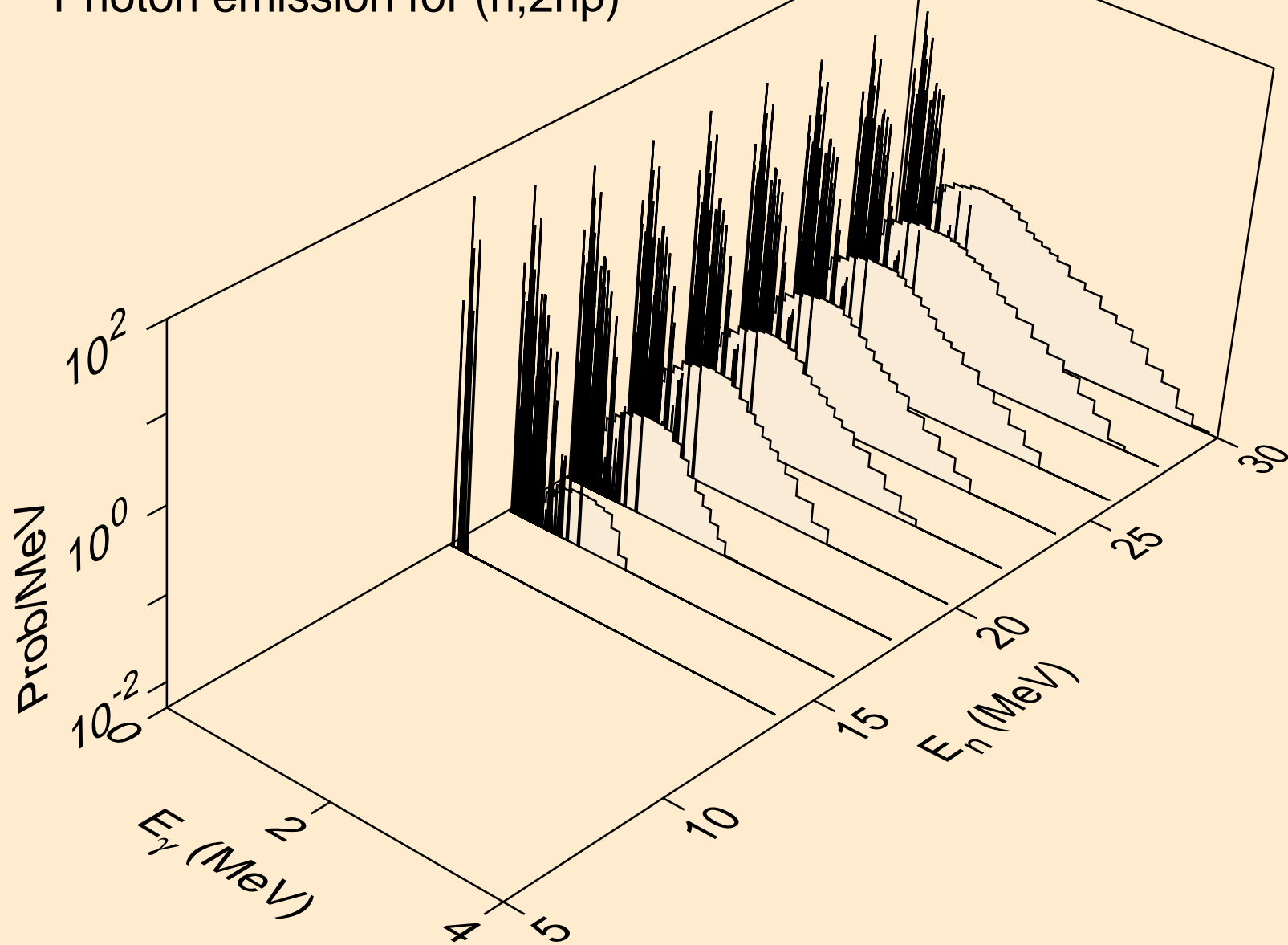




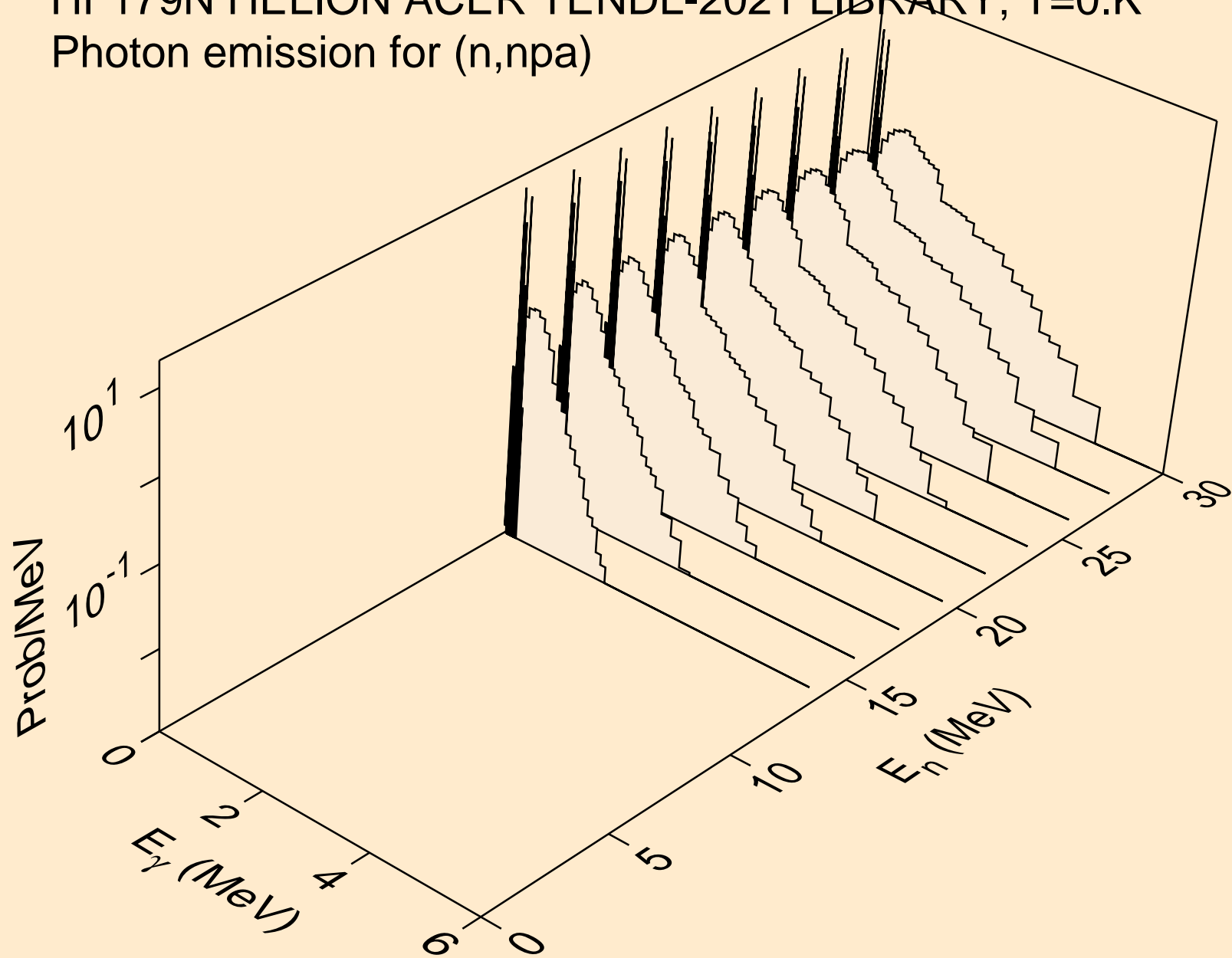
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Photon emission for (n,3np)



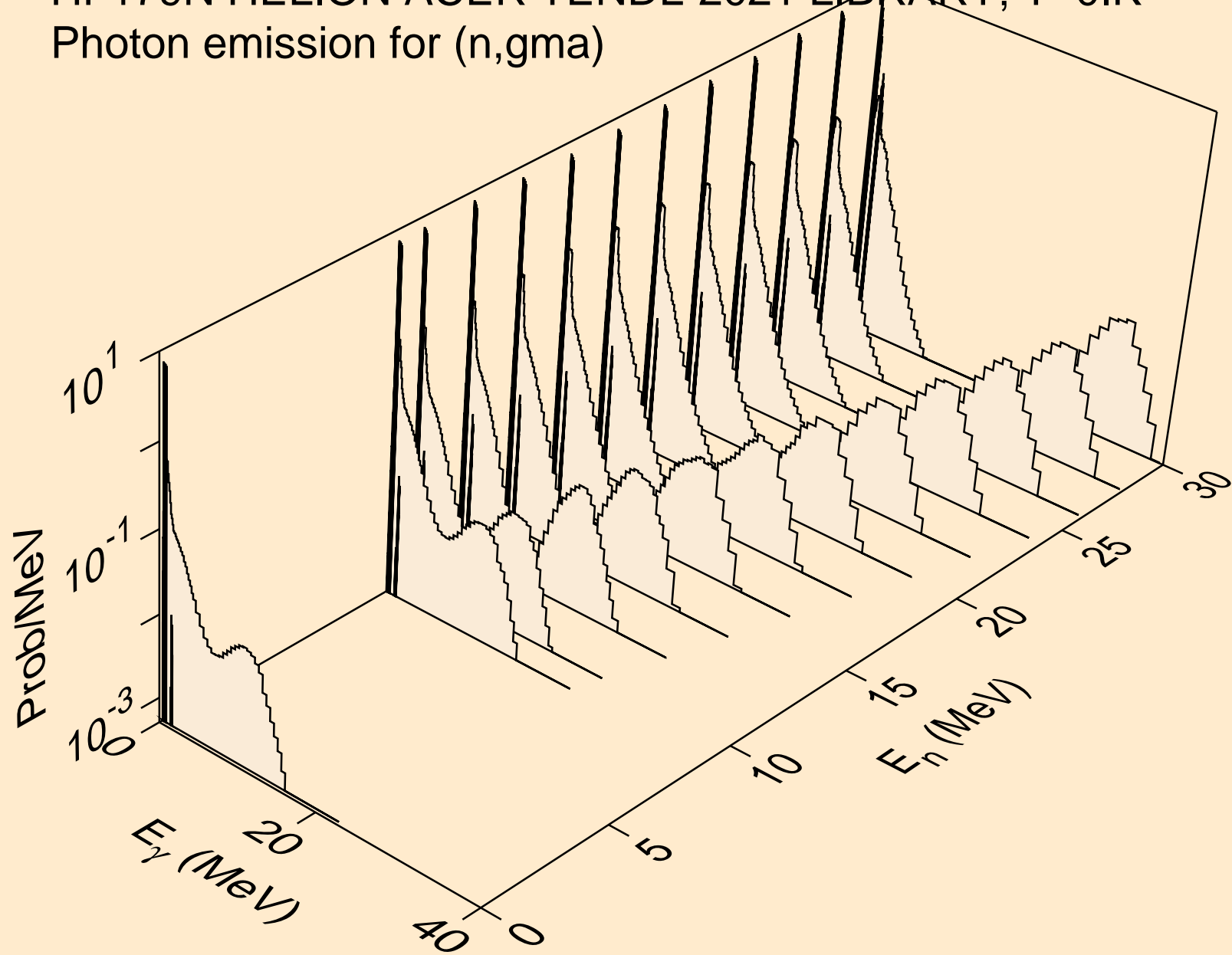
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Photon emission for (n,2np)



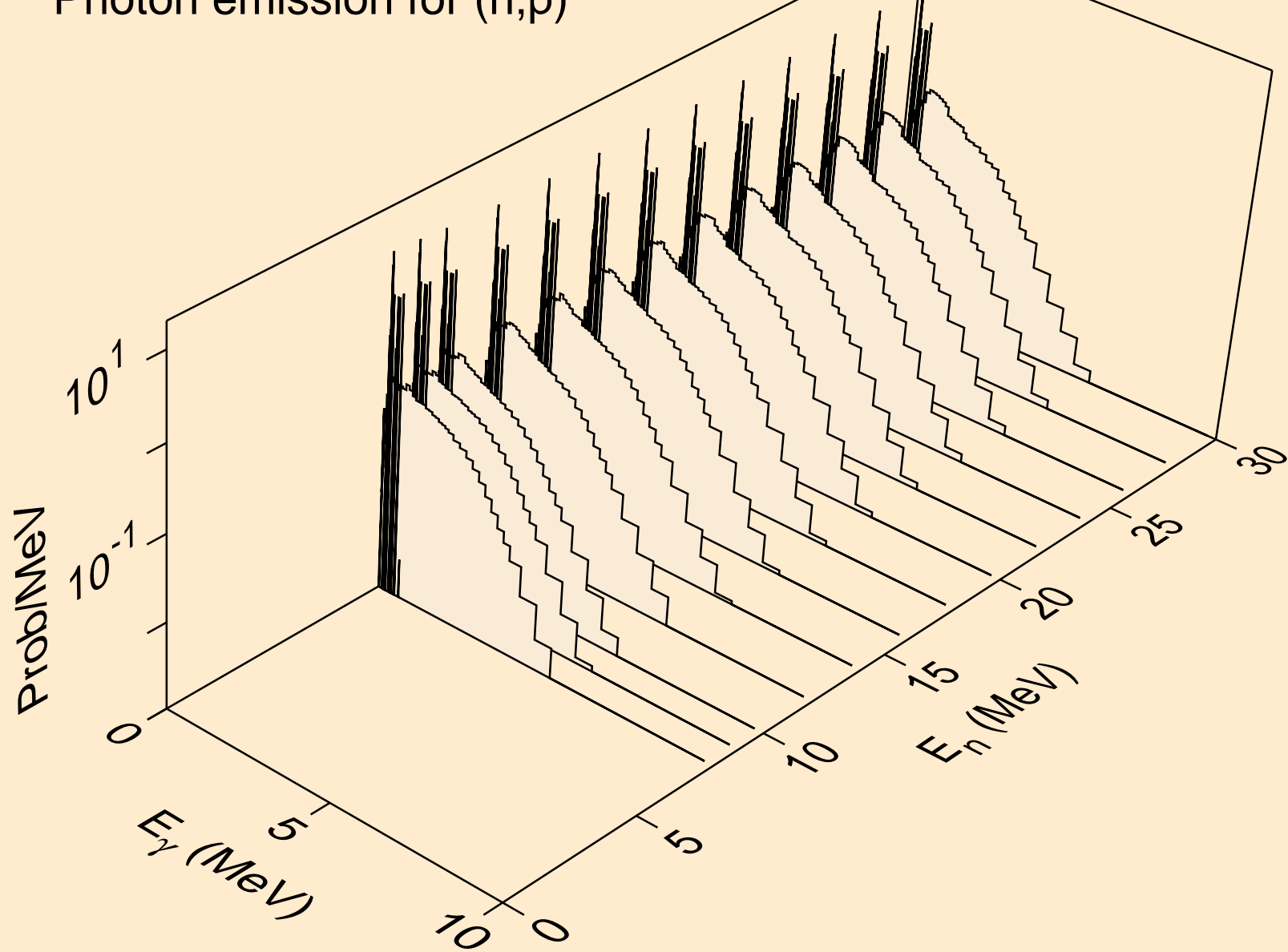
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Photon emission for (n,npa)



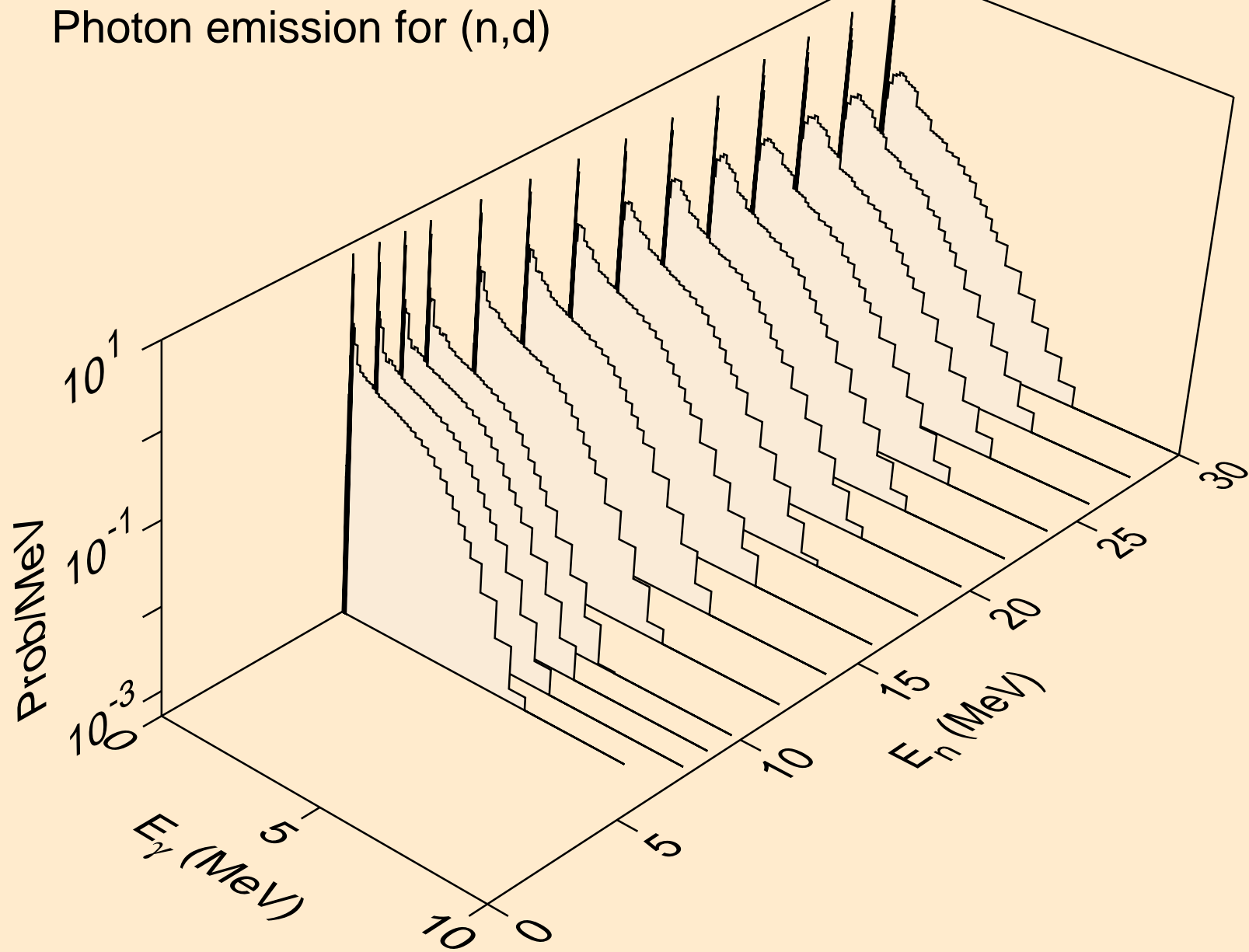
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Photon emission for (n,gma)



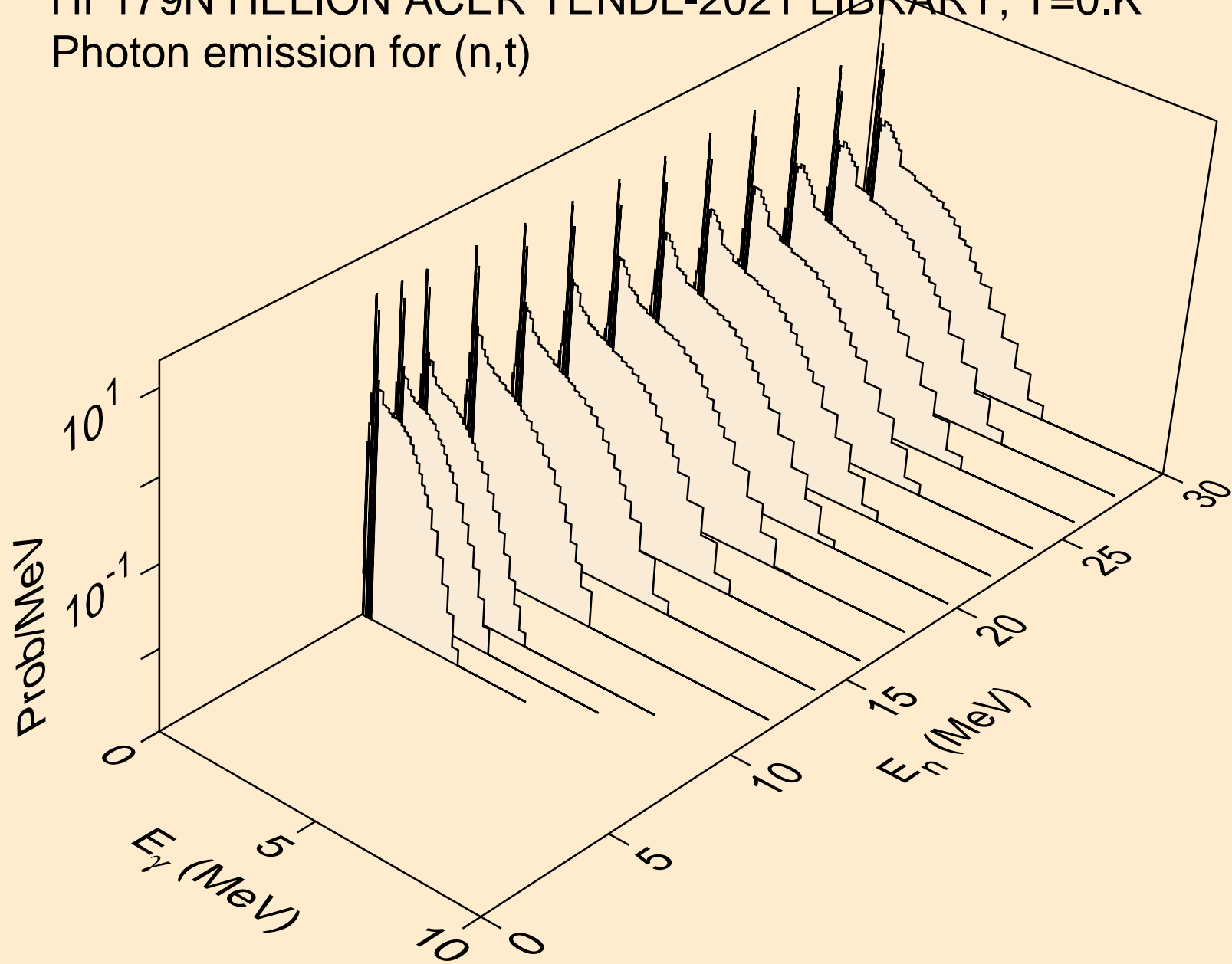
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Photon emission for (n,p)



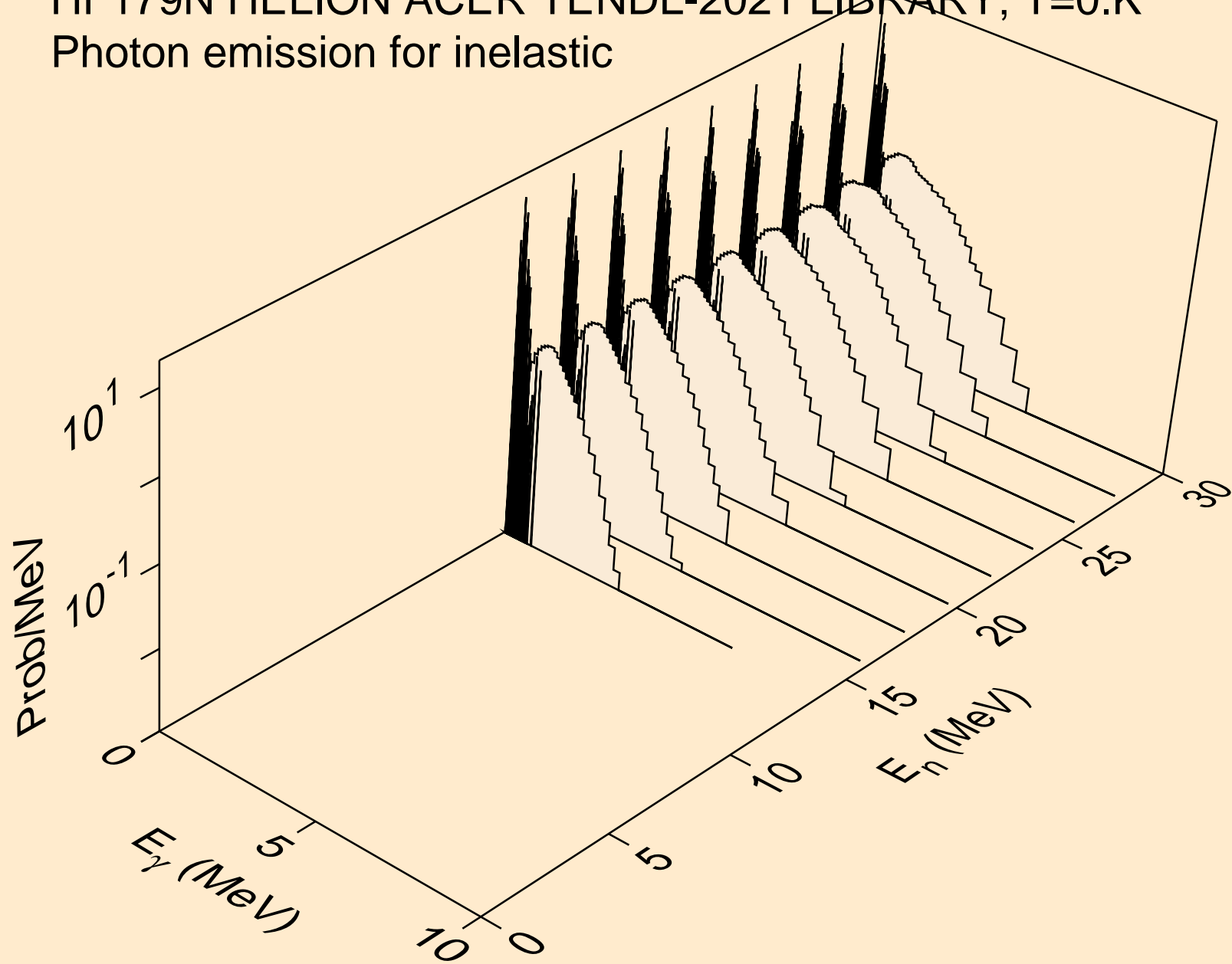
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Photon emission for (n,d)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)

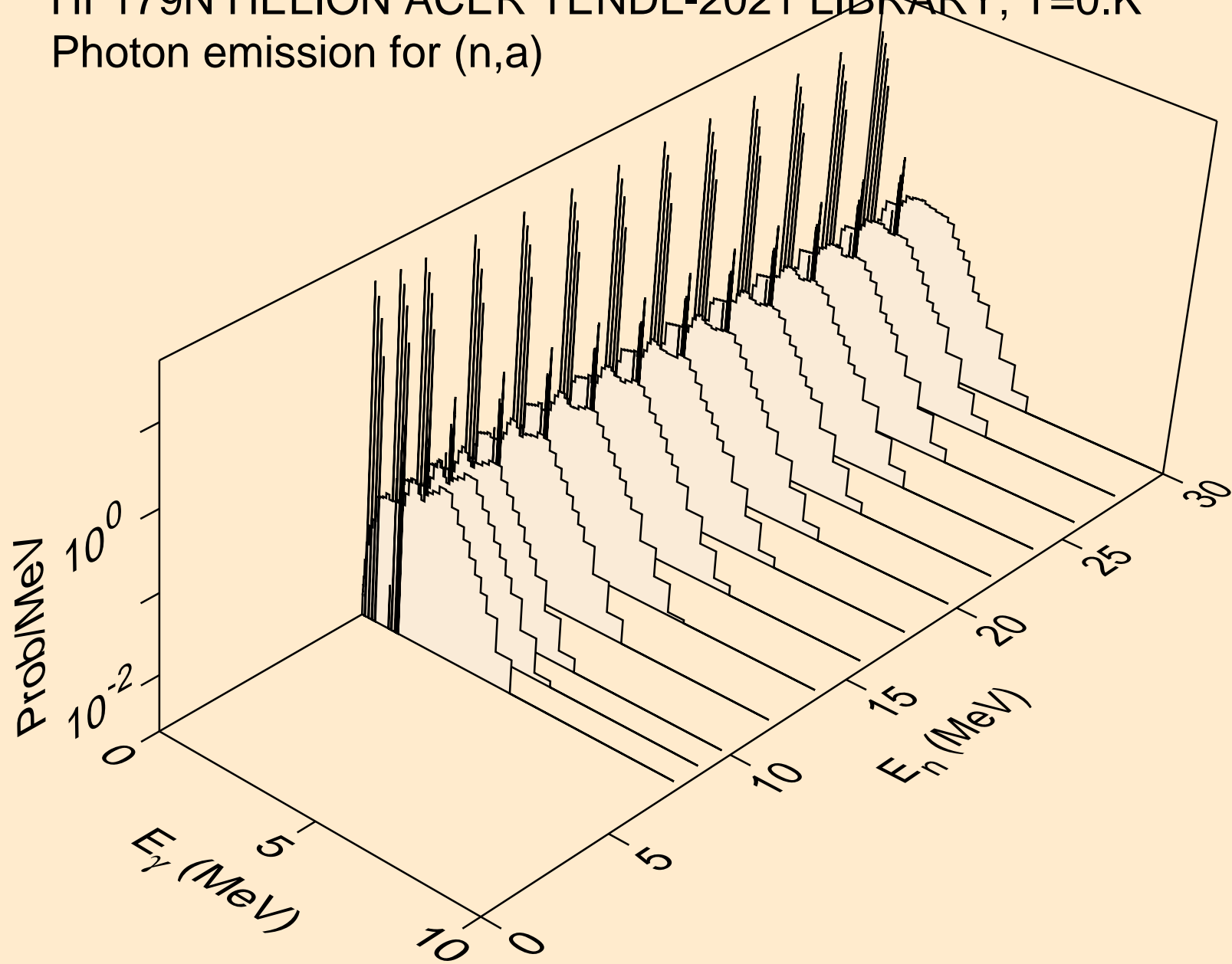


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Photon emission for inelastic

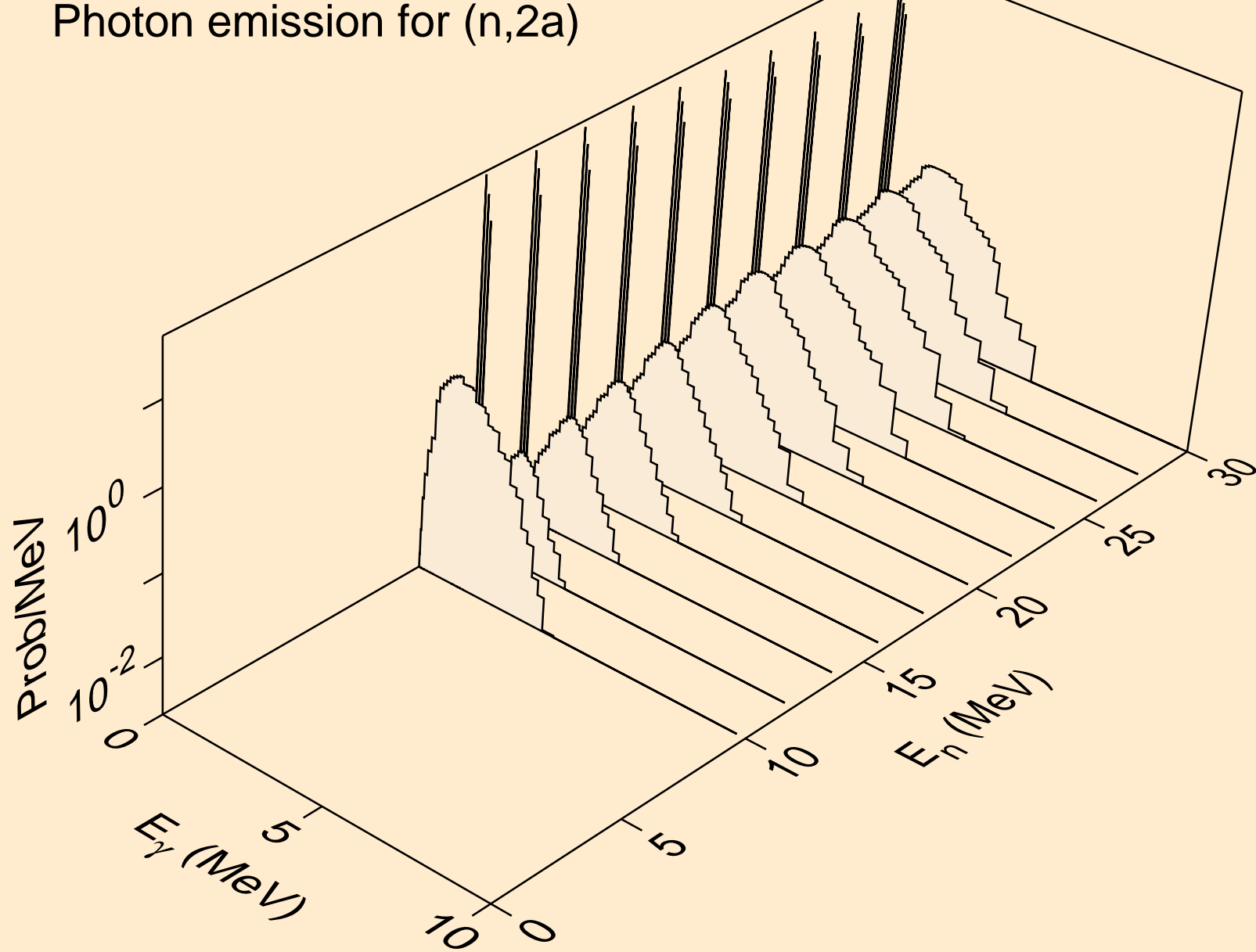




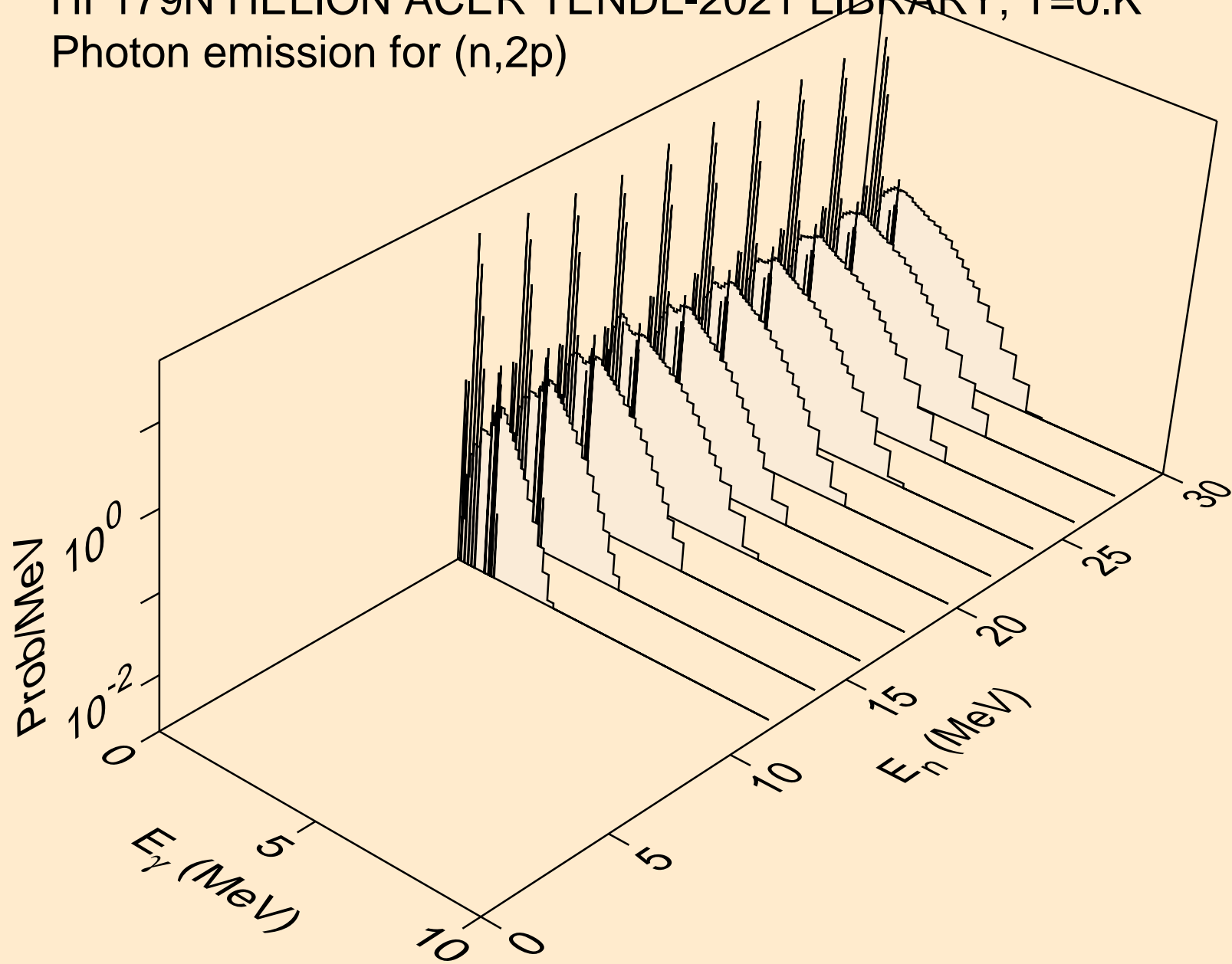
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Photon emission for (n,a)



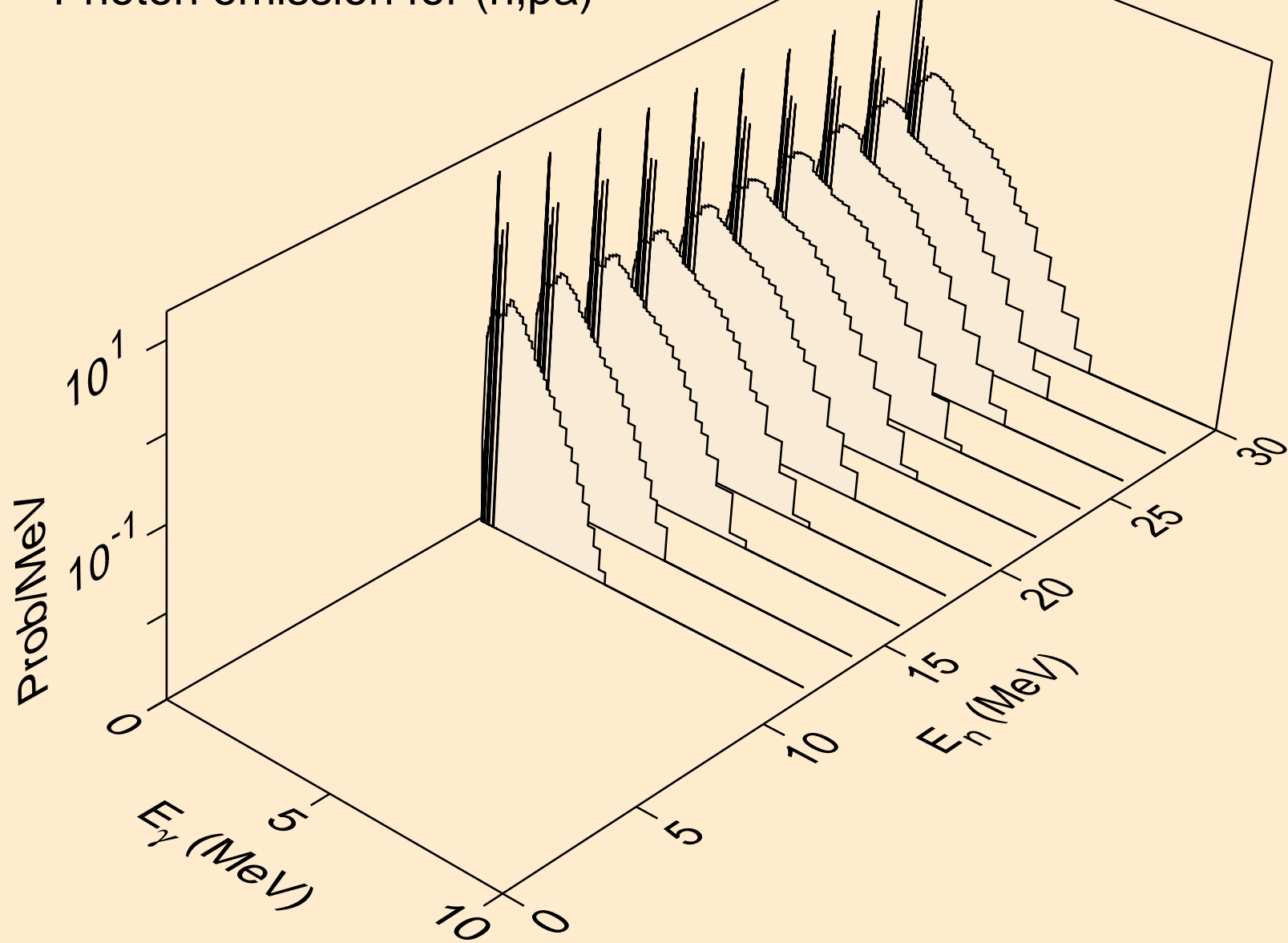
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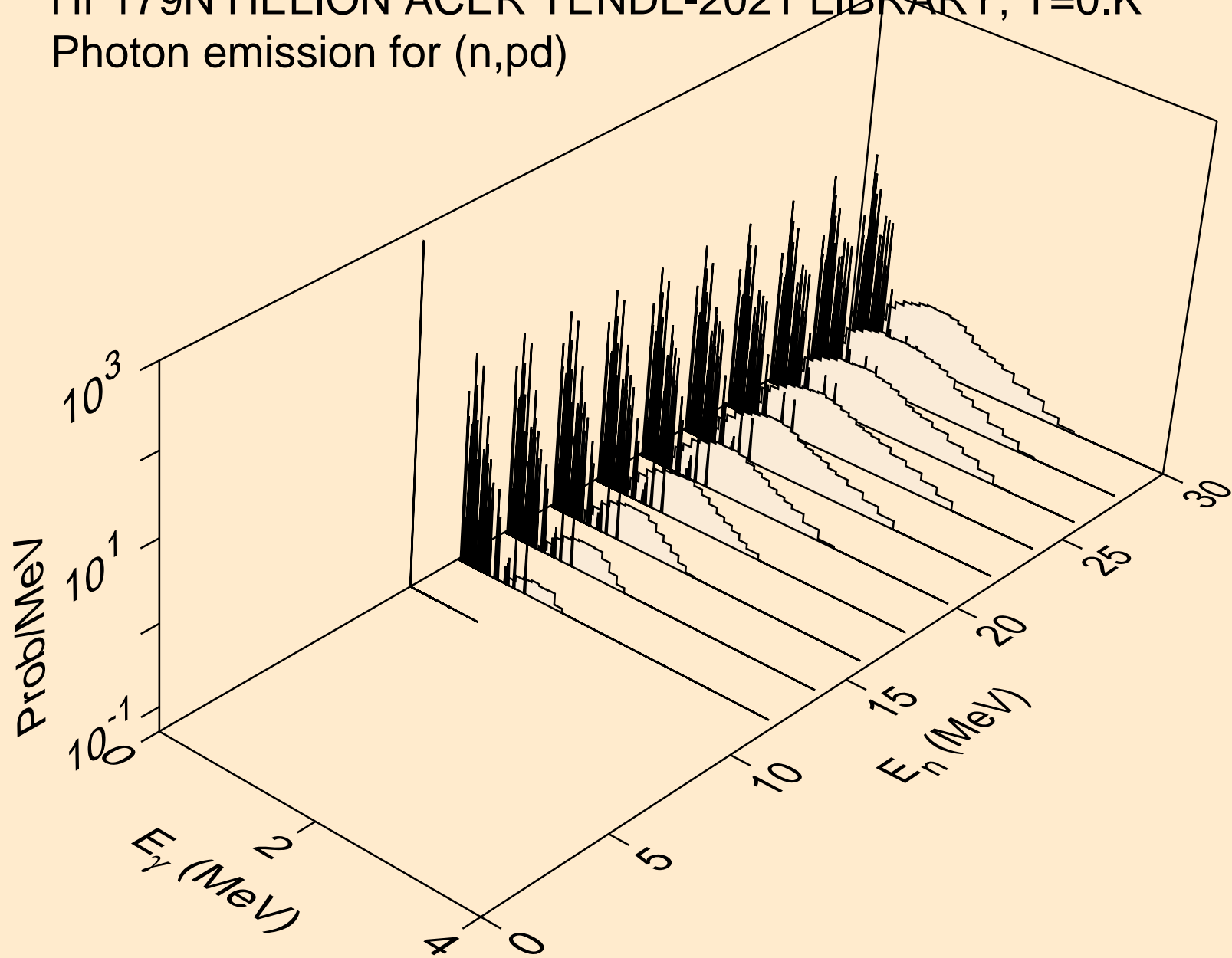
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Photon emission for (n,2p)



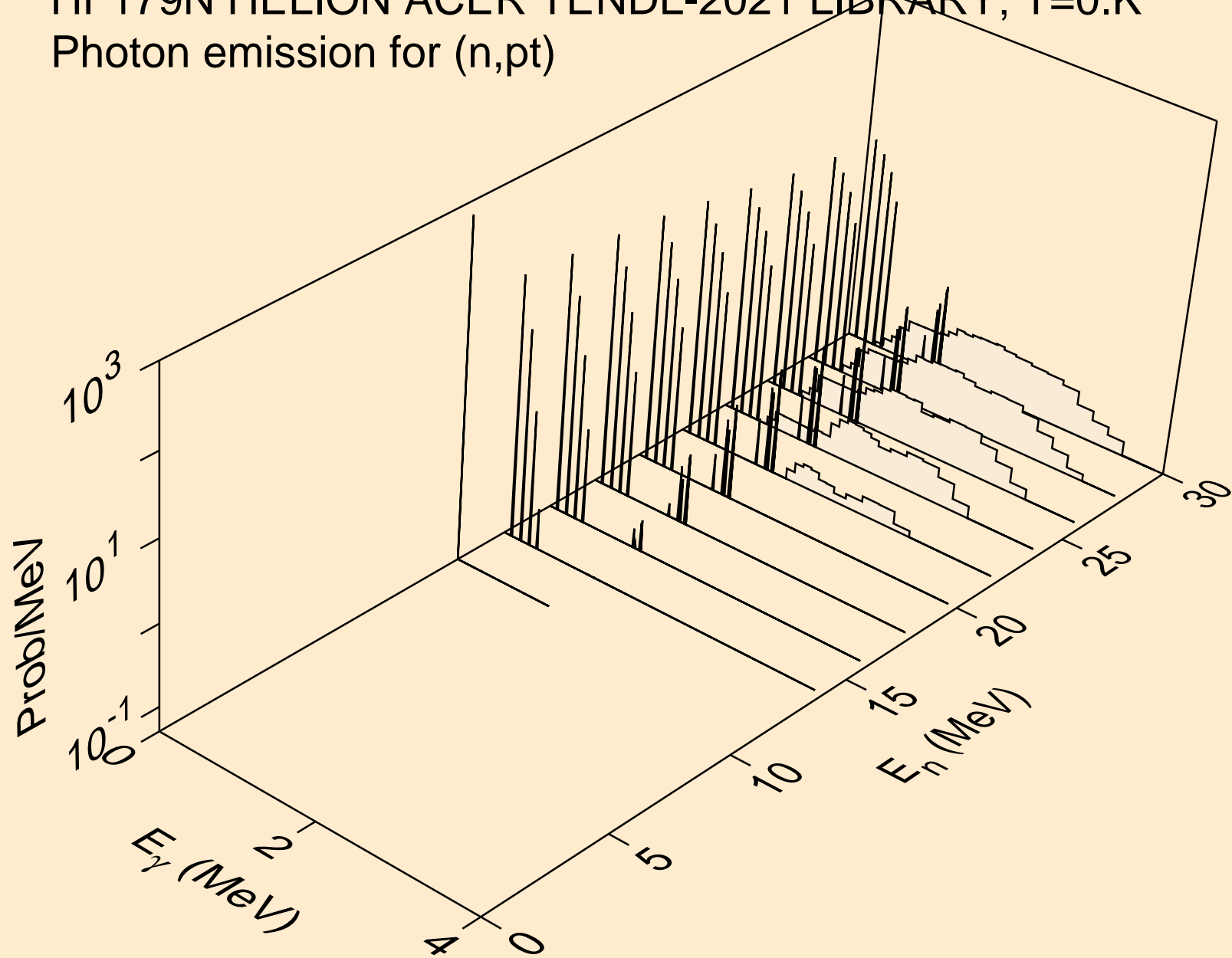
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Photon emission for (n,p $\alpha$ )



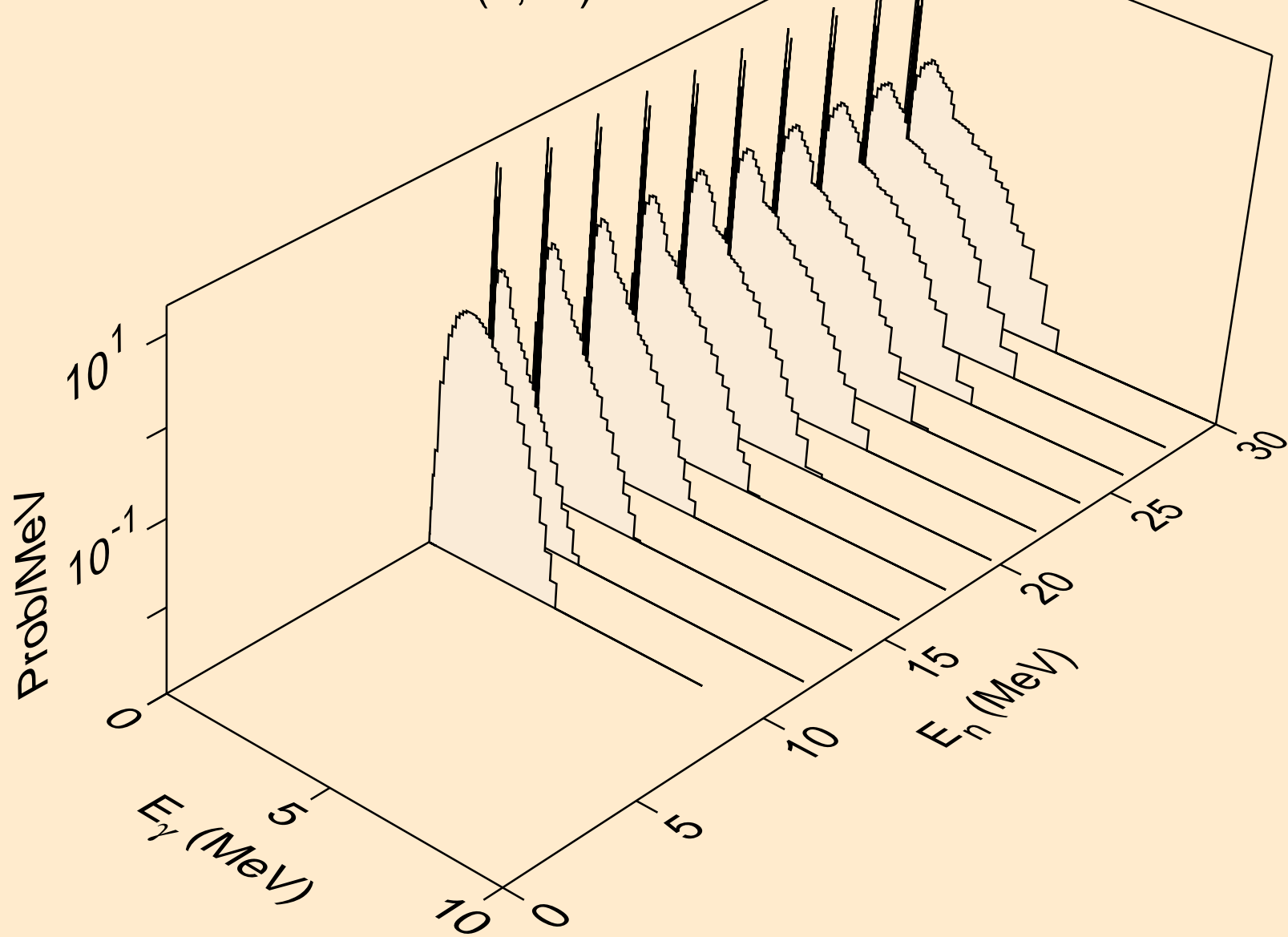
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Photon emission for (n,pd)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pt)

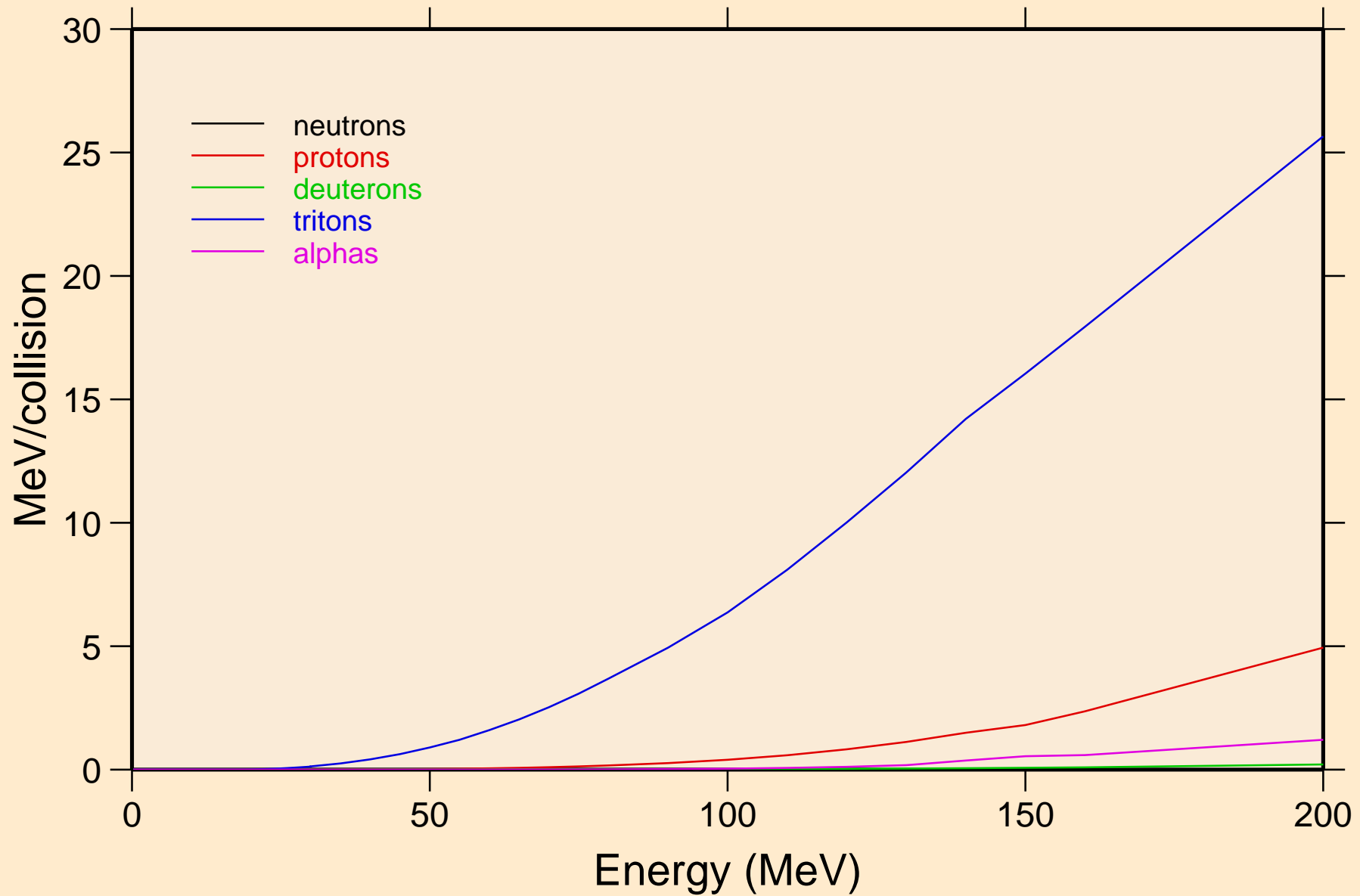


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Photon emission for (n,da)



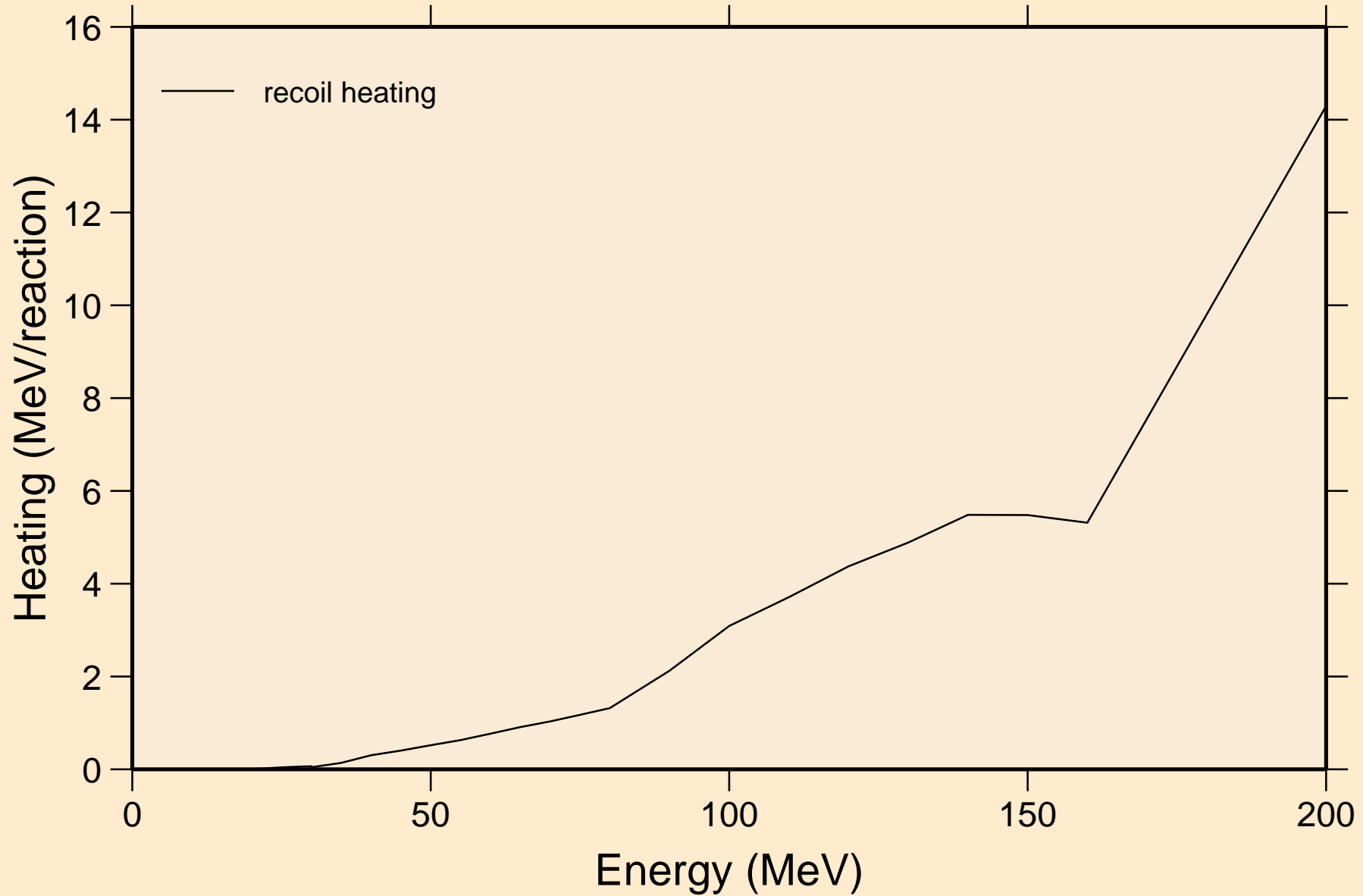
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## Particle heating contributions

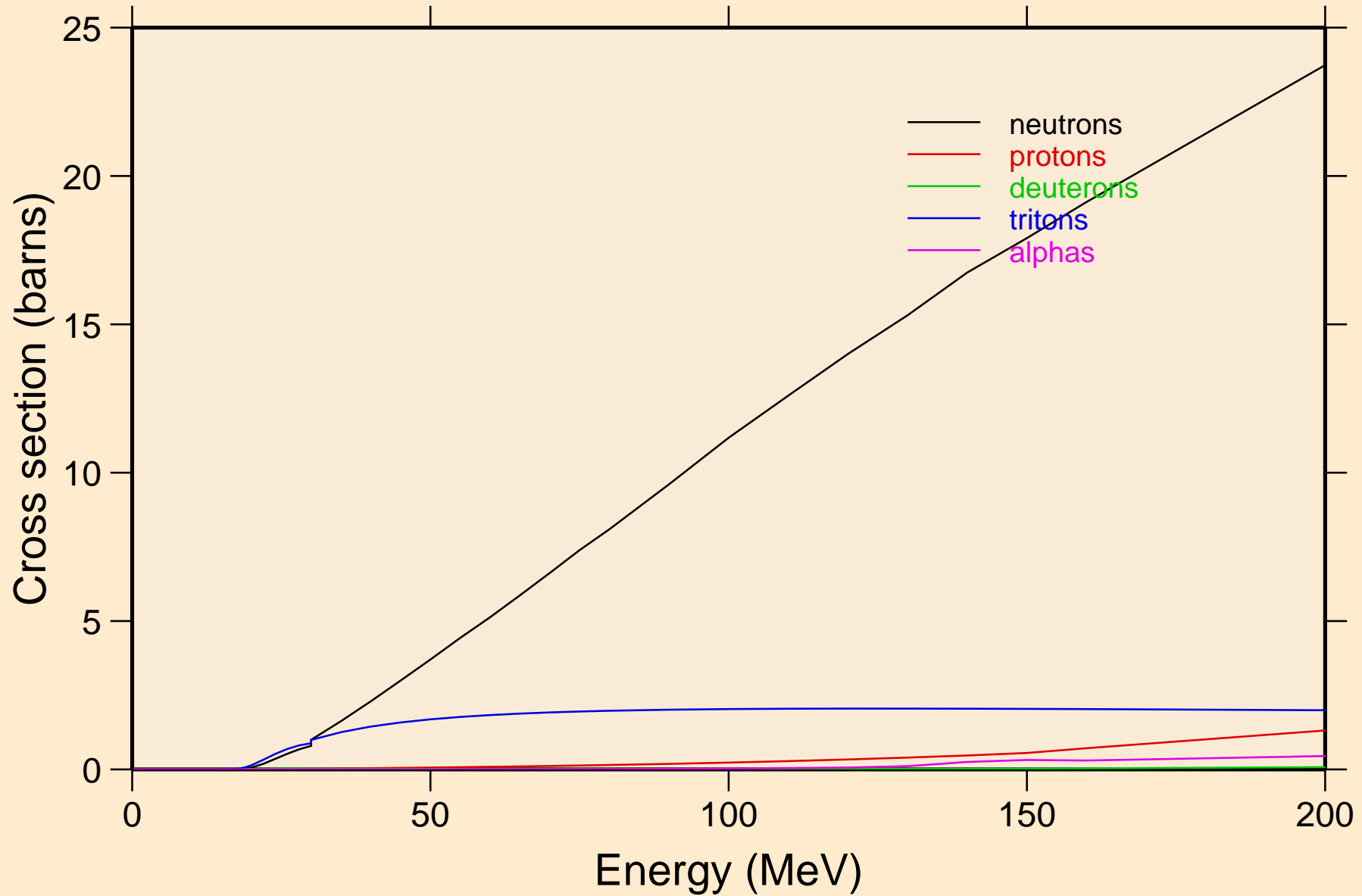




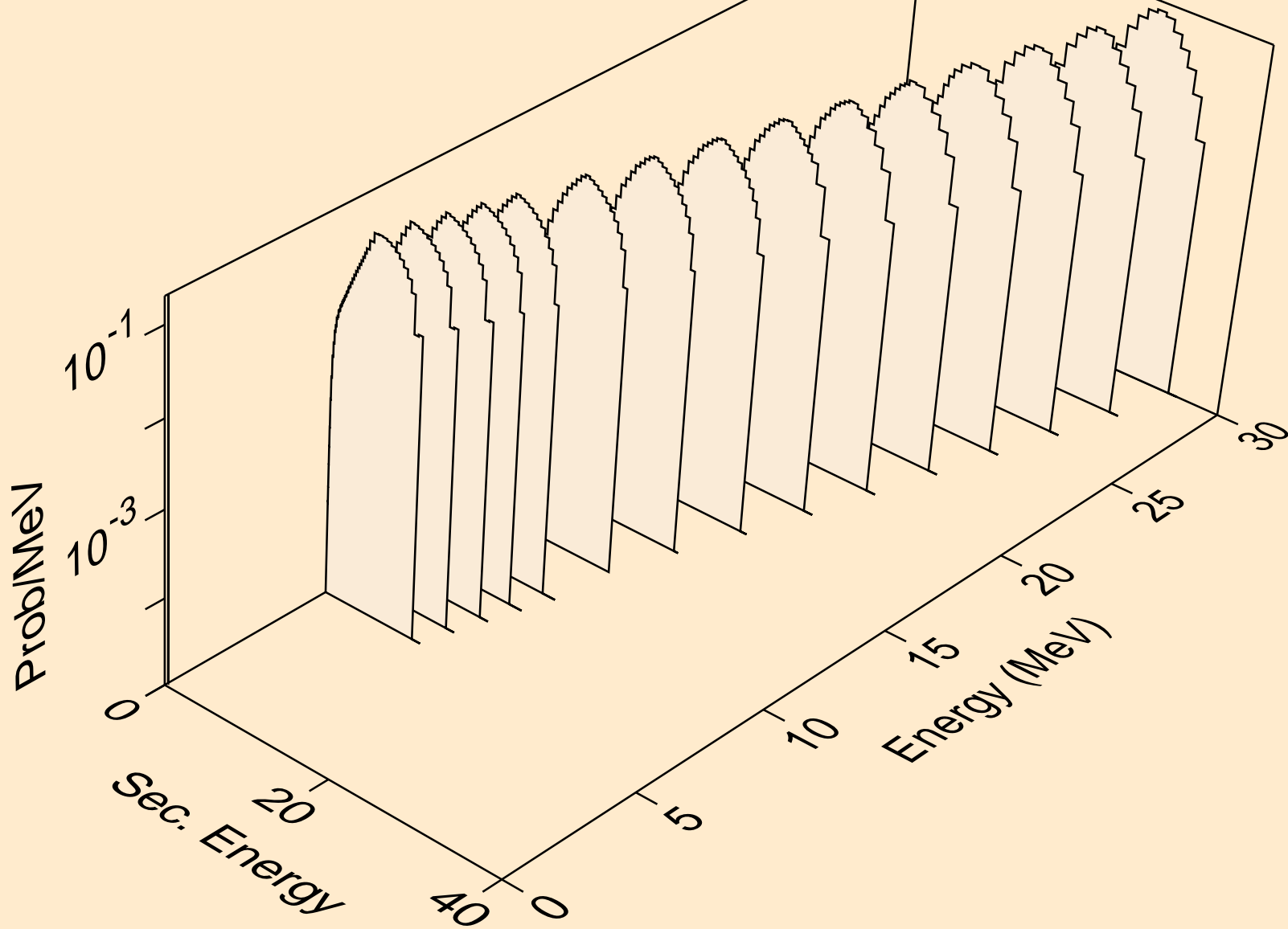
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Recoil Heating



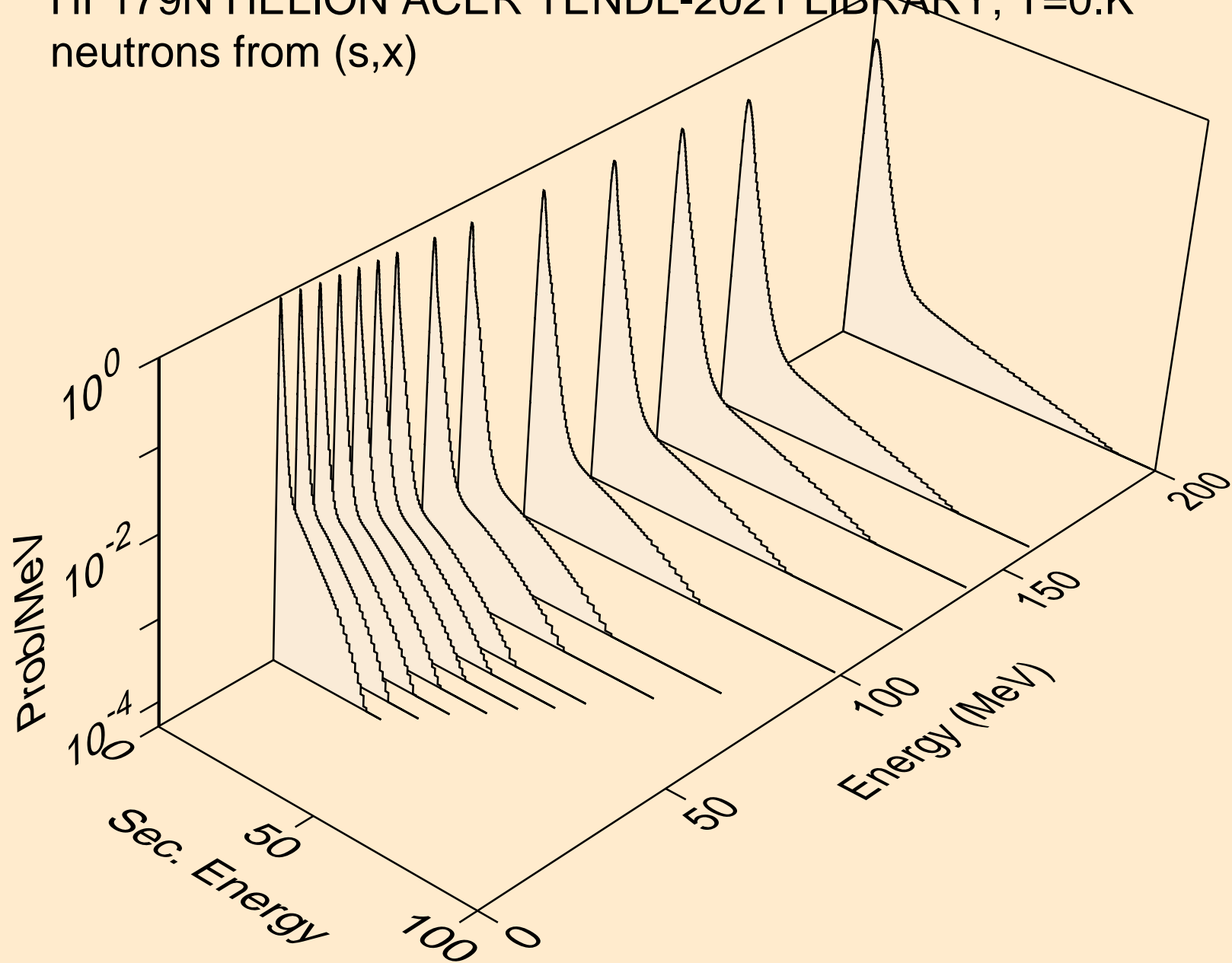
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Particle production cross sections



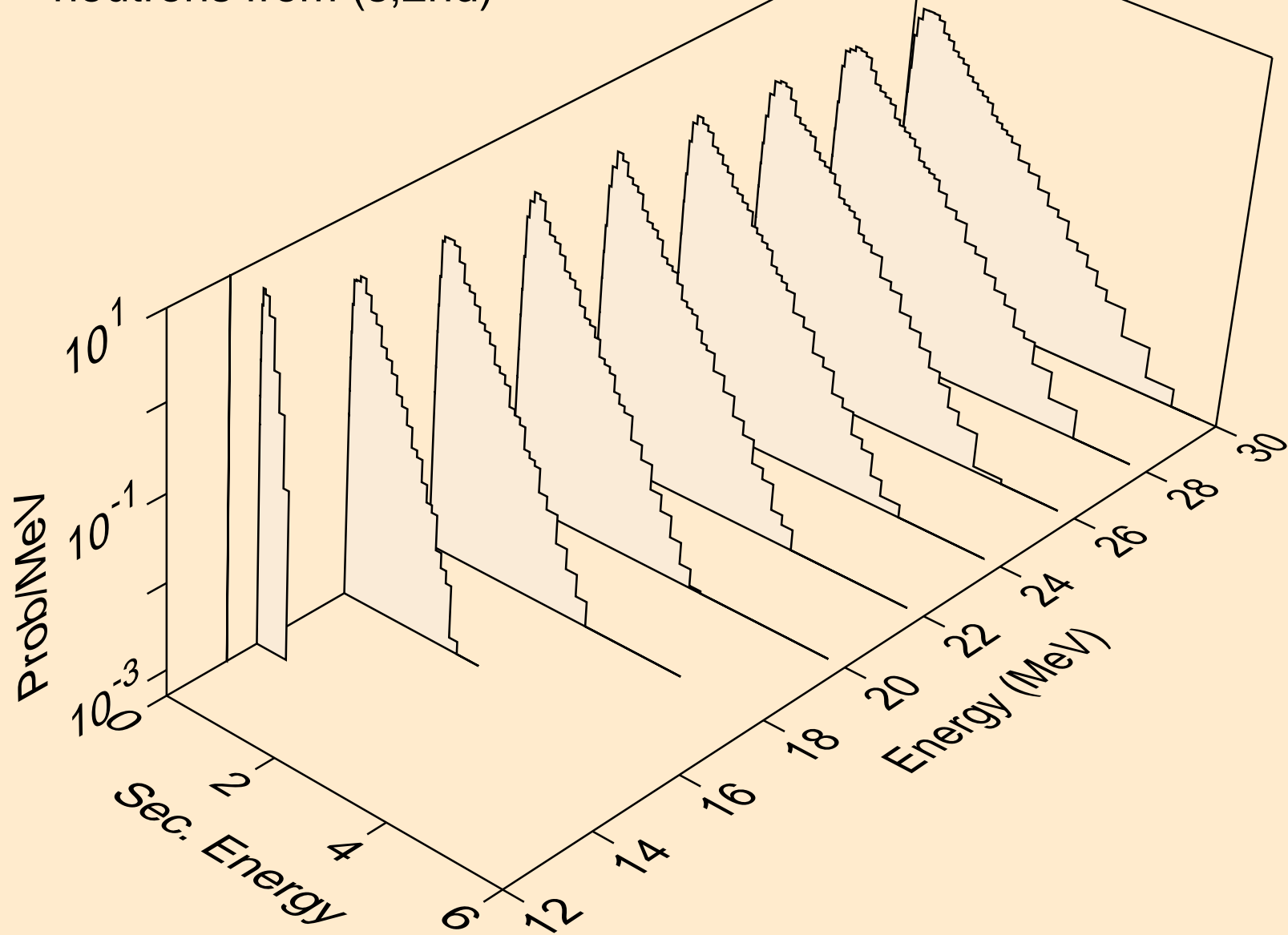
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n)



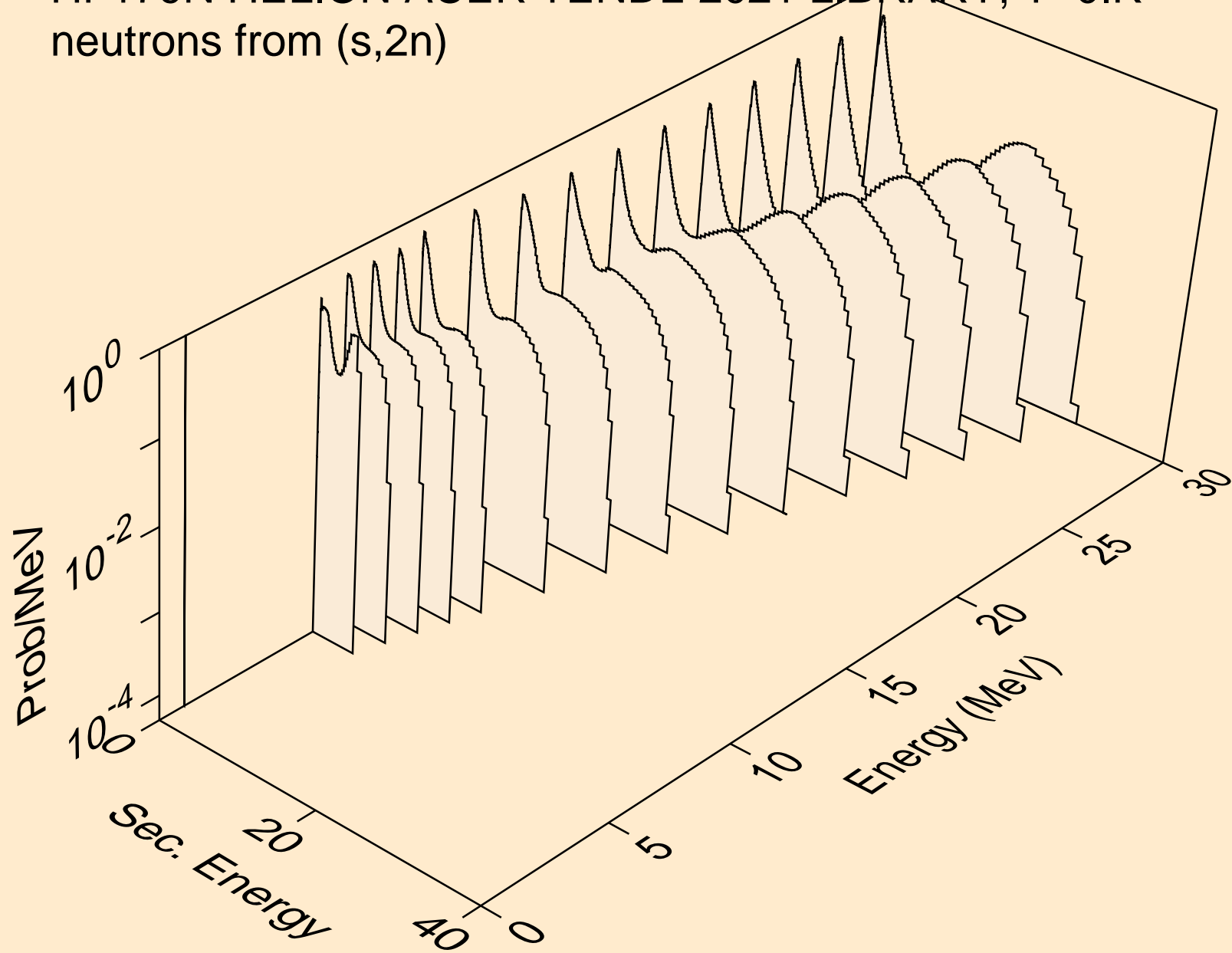
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neutrons from (s,x)



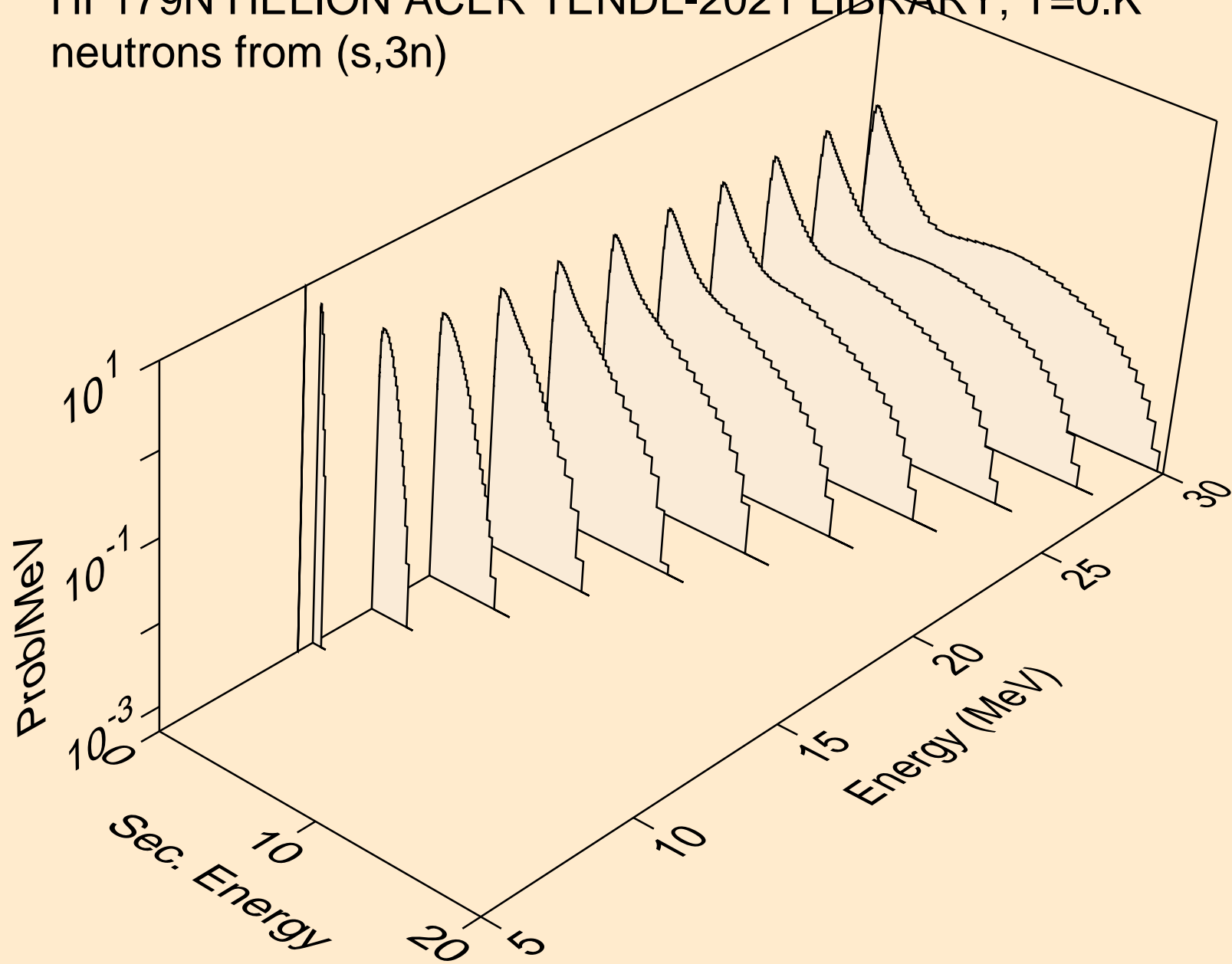
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neutrons from (s,2nd)



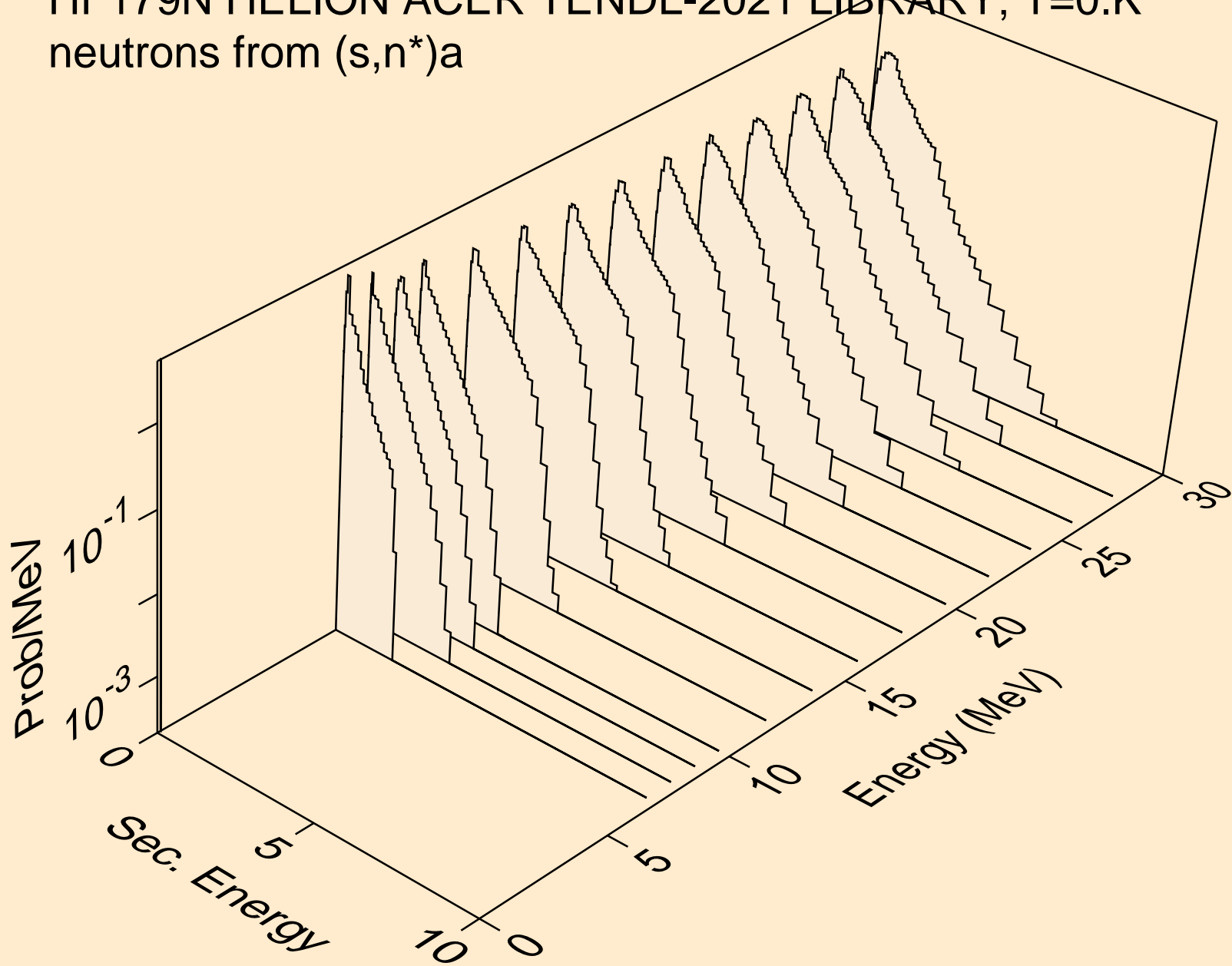
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neutrons from (s,2n)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3n)

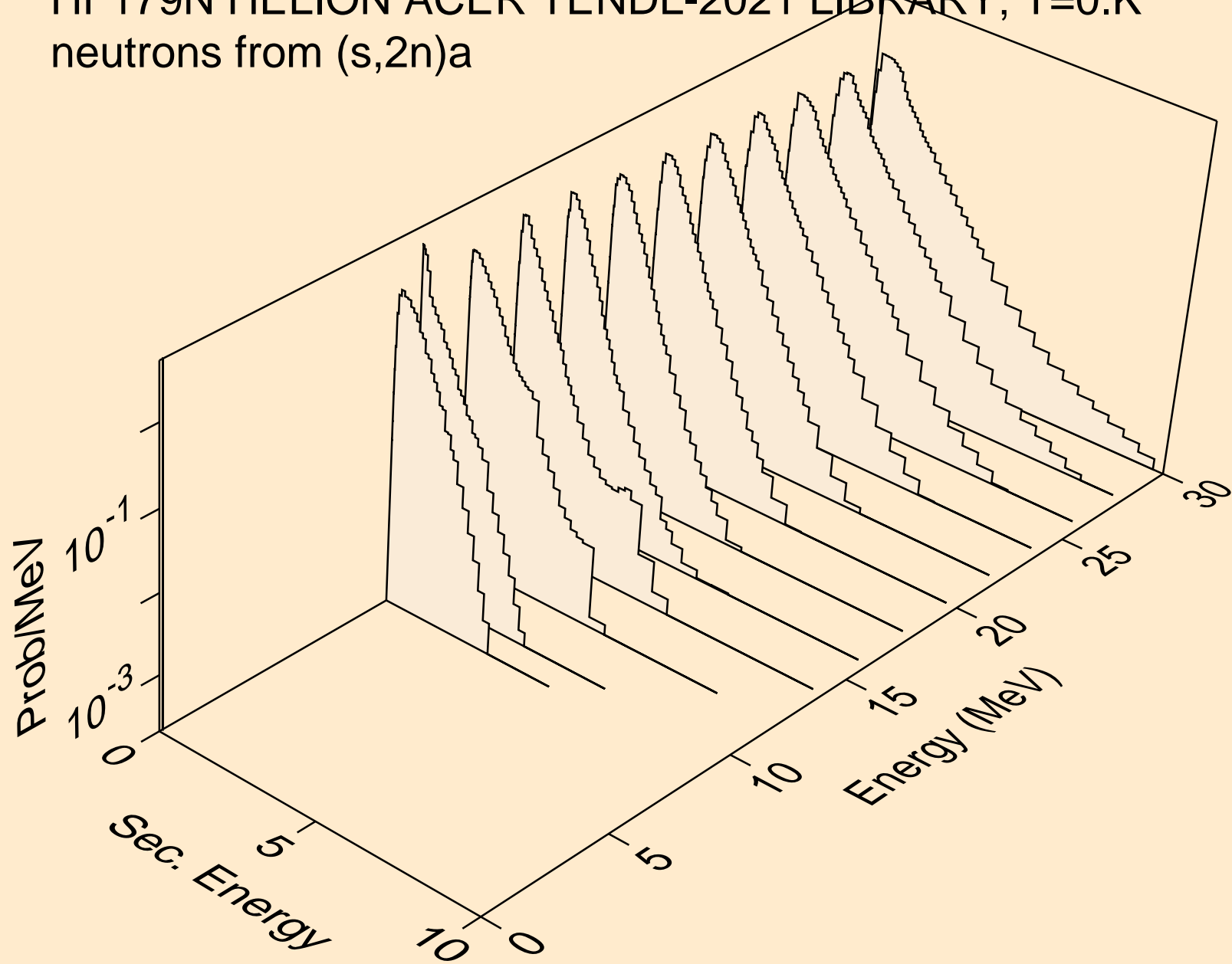


HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)a

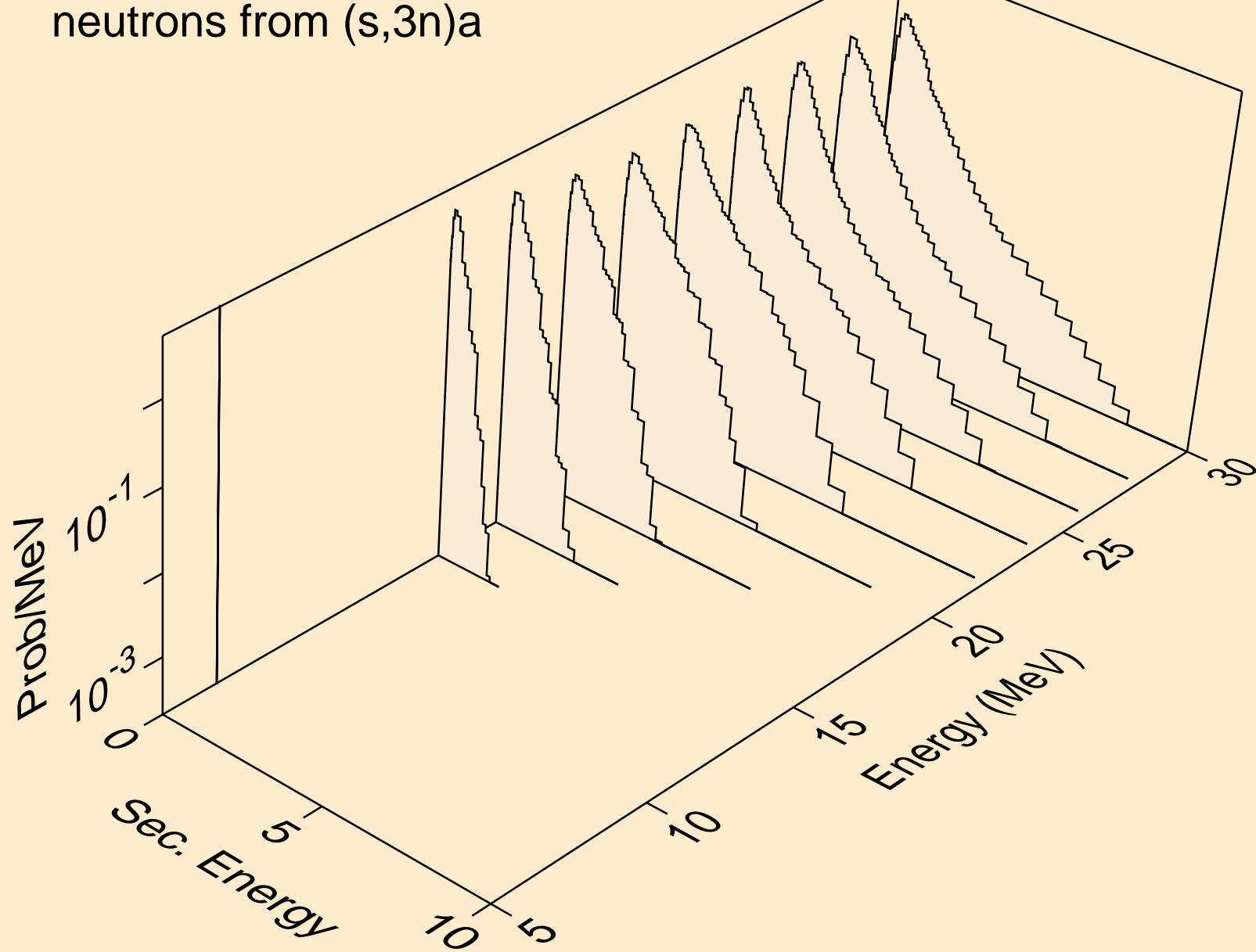




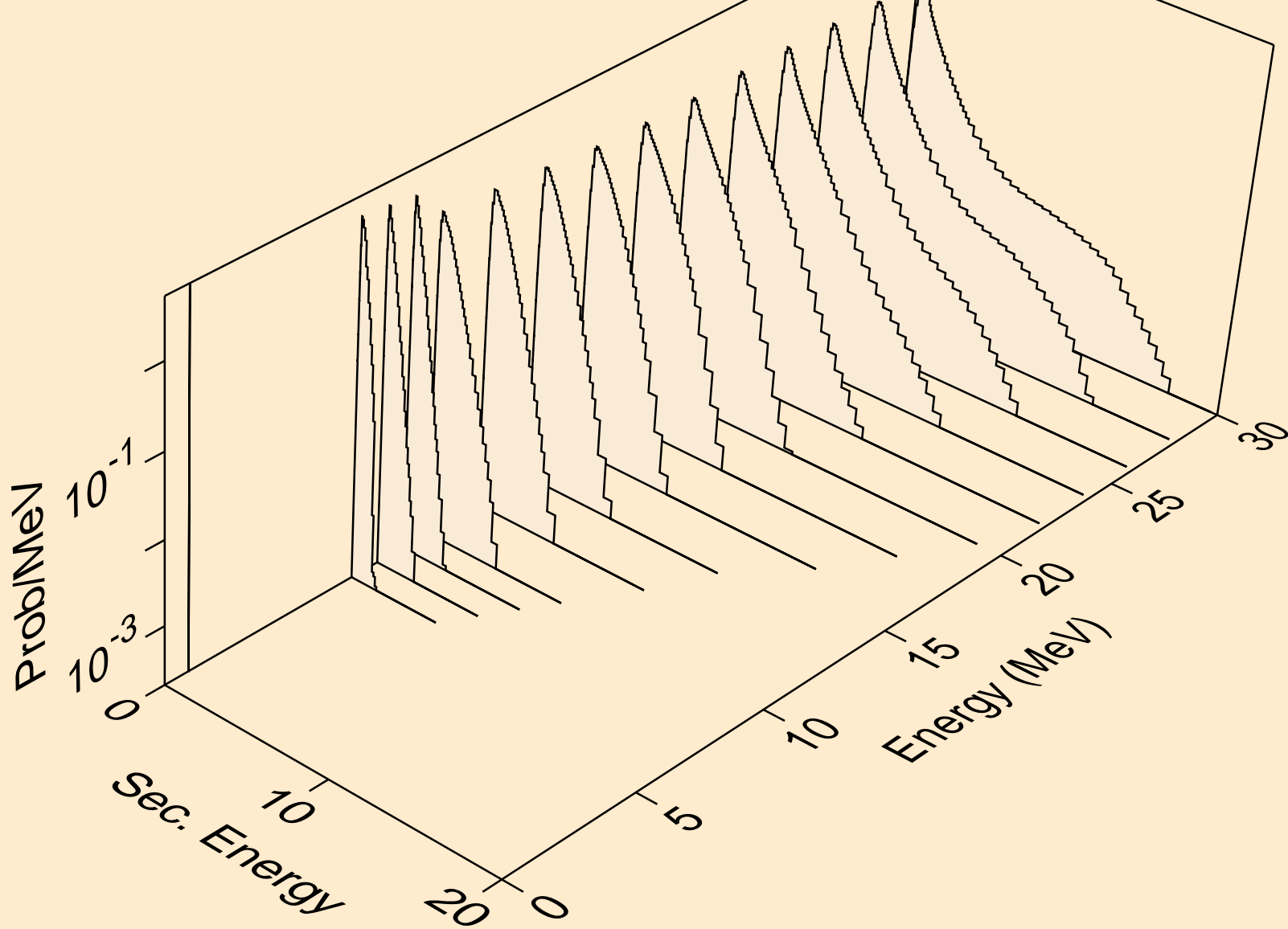
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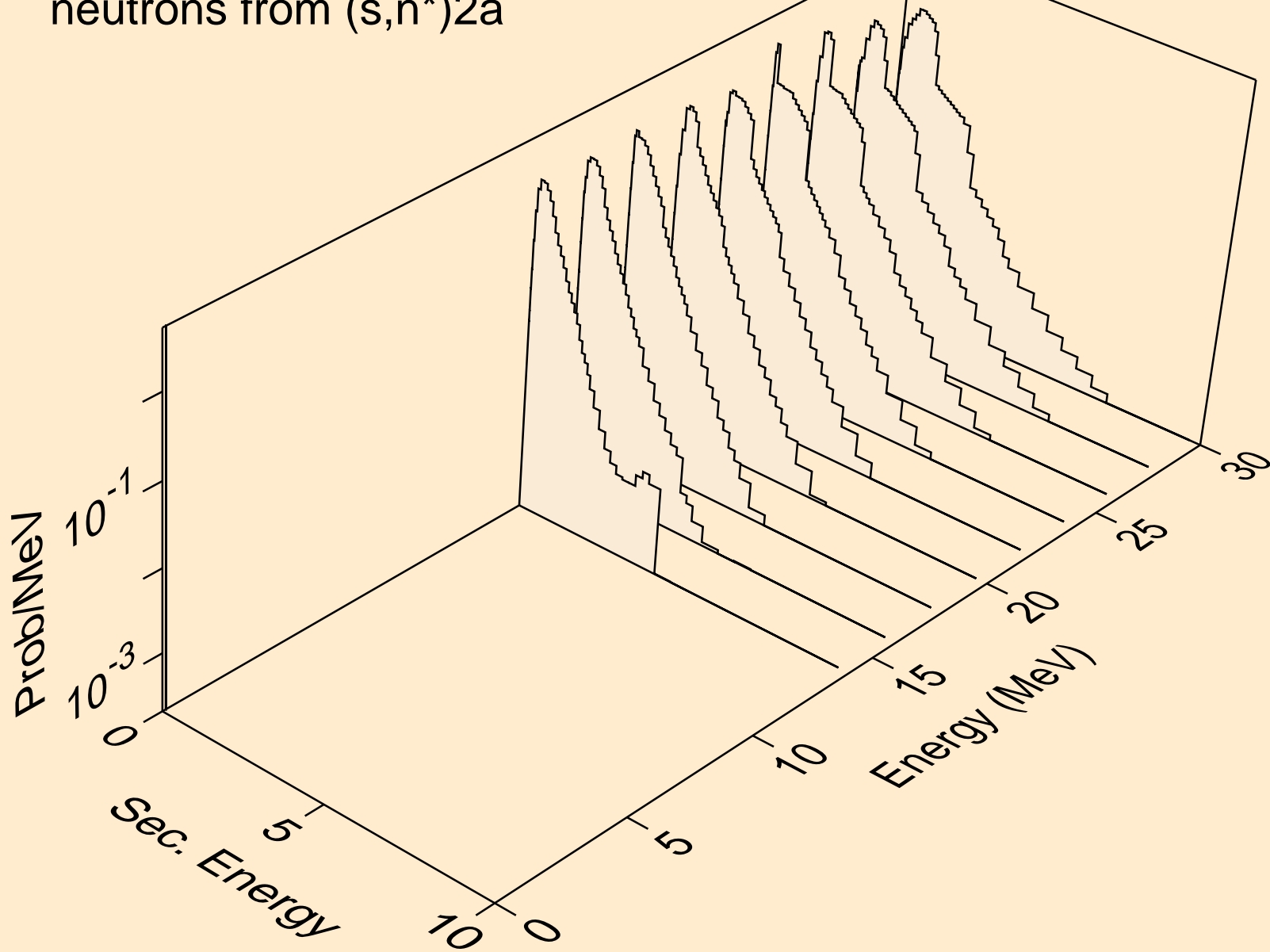
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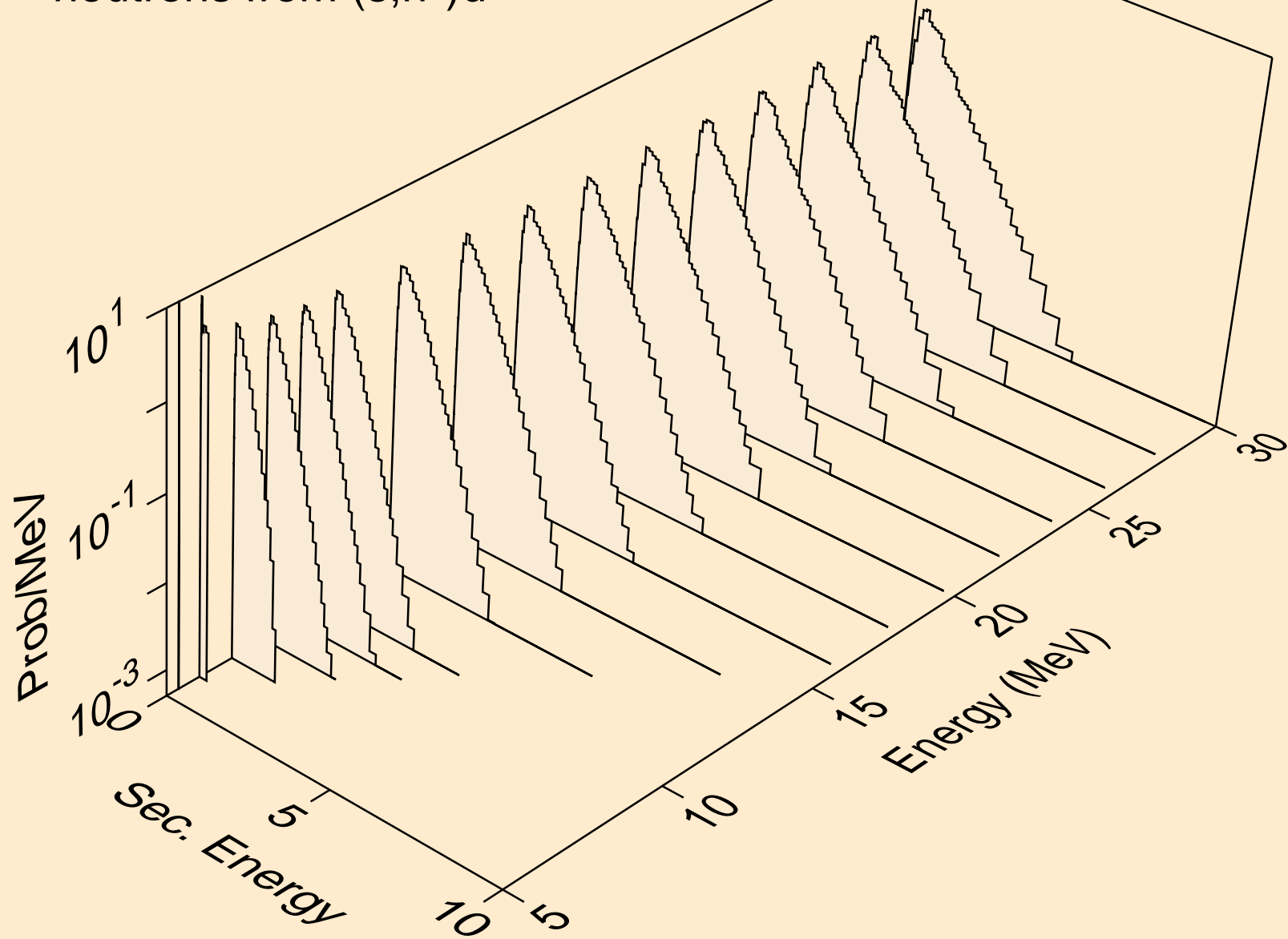
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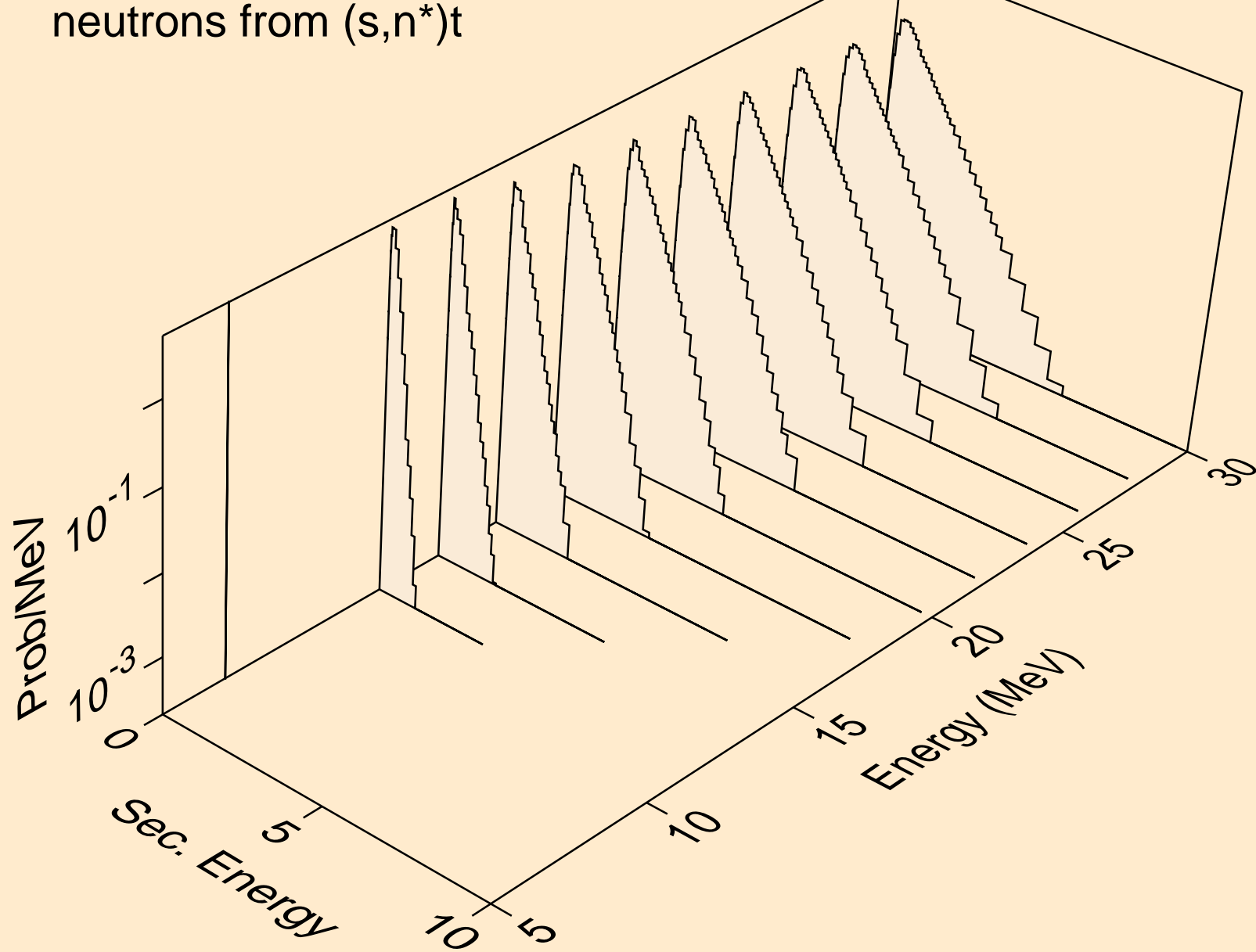
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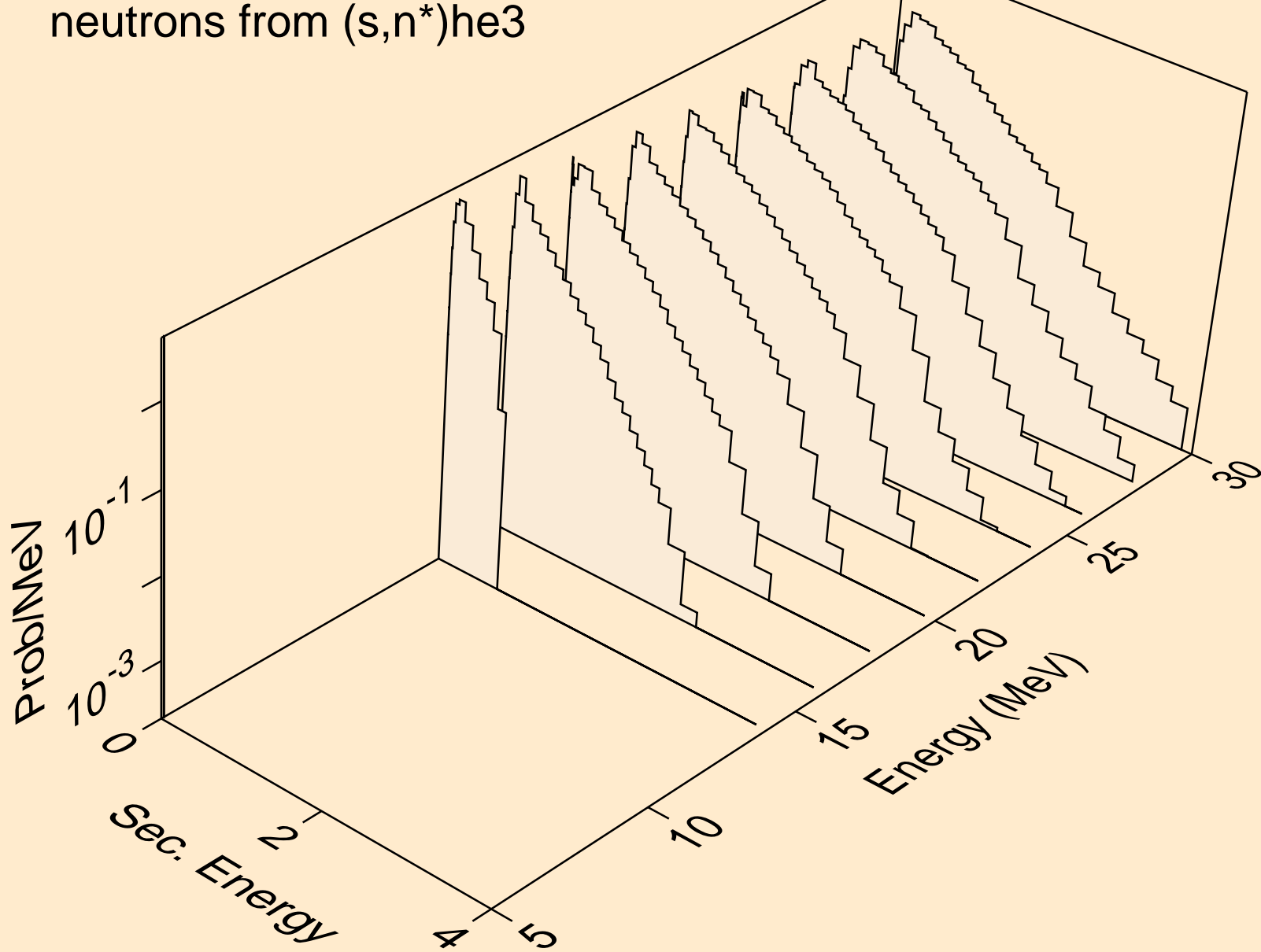
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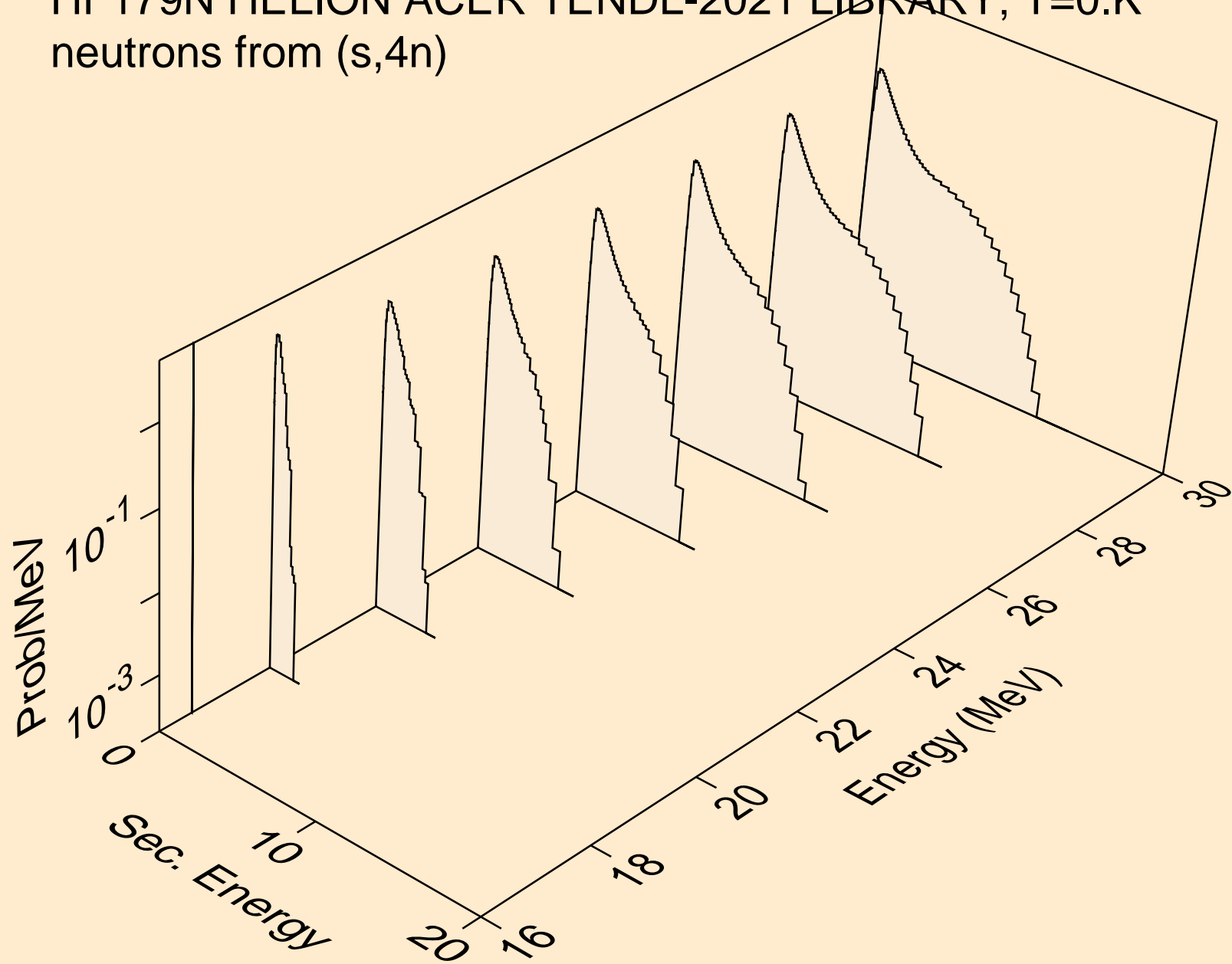
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neutrons from (s,n\*)t



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)he3

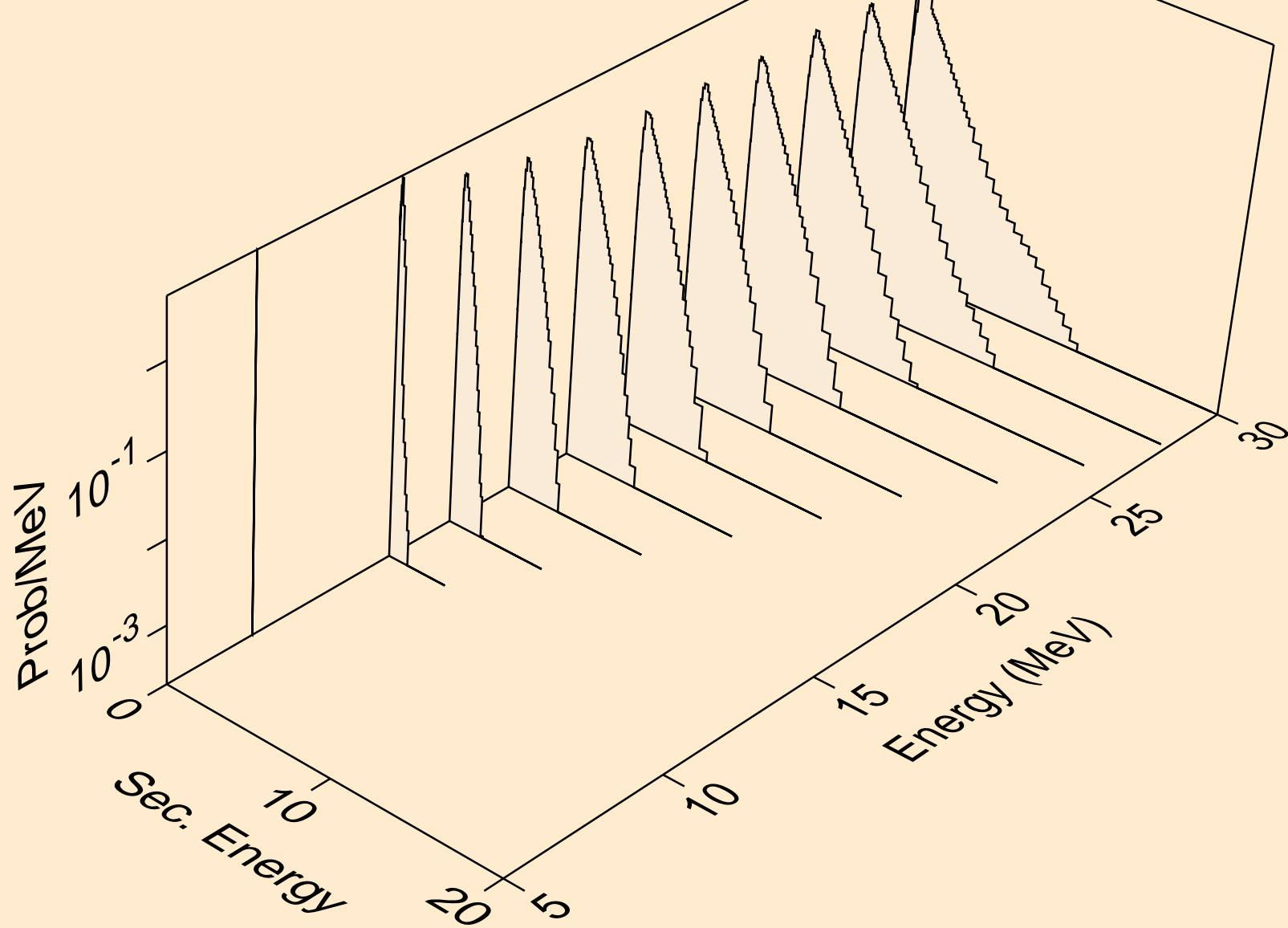


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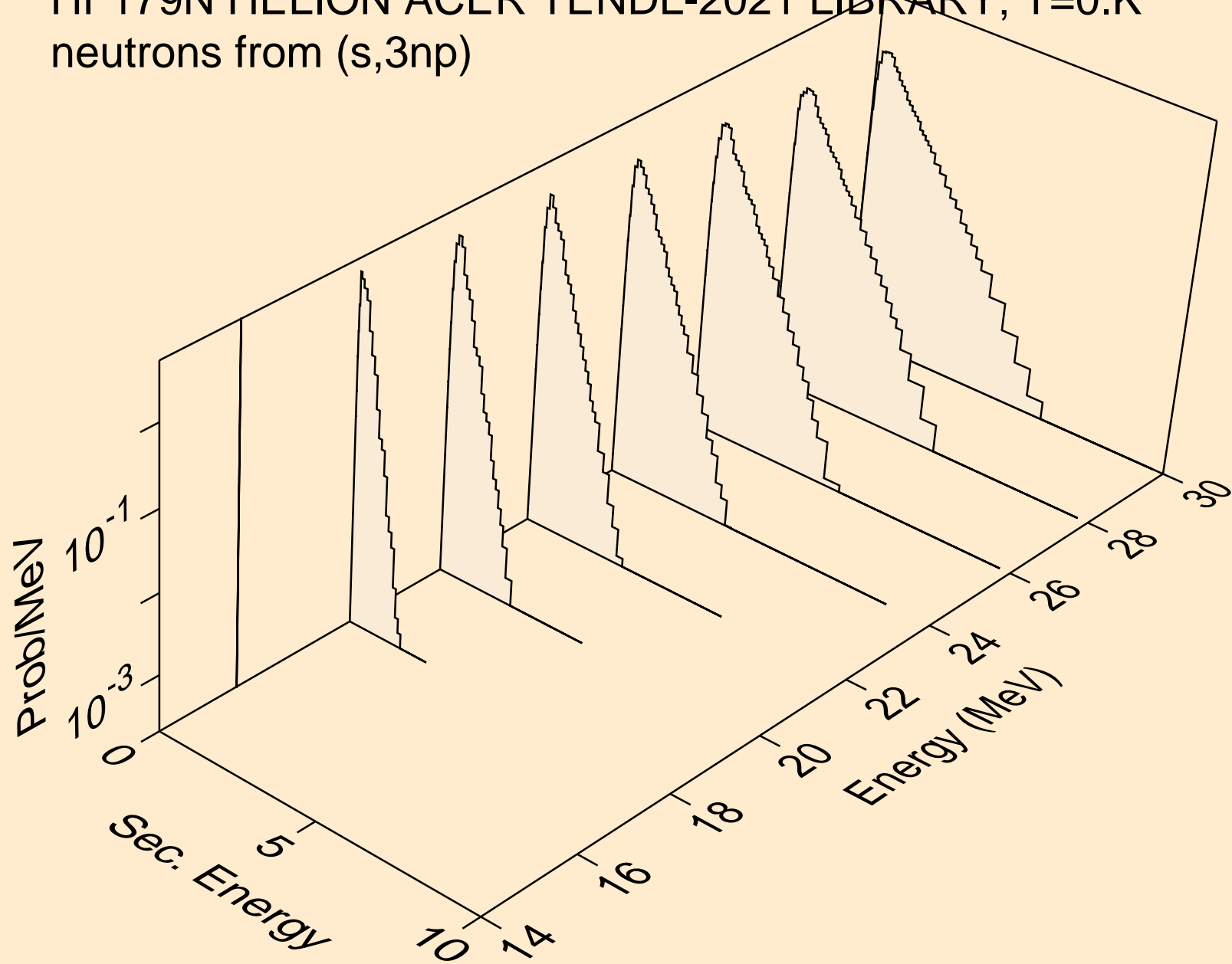




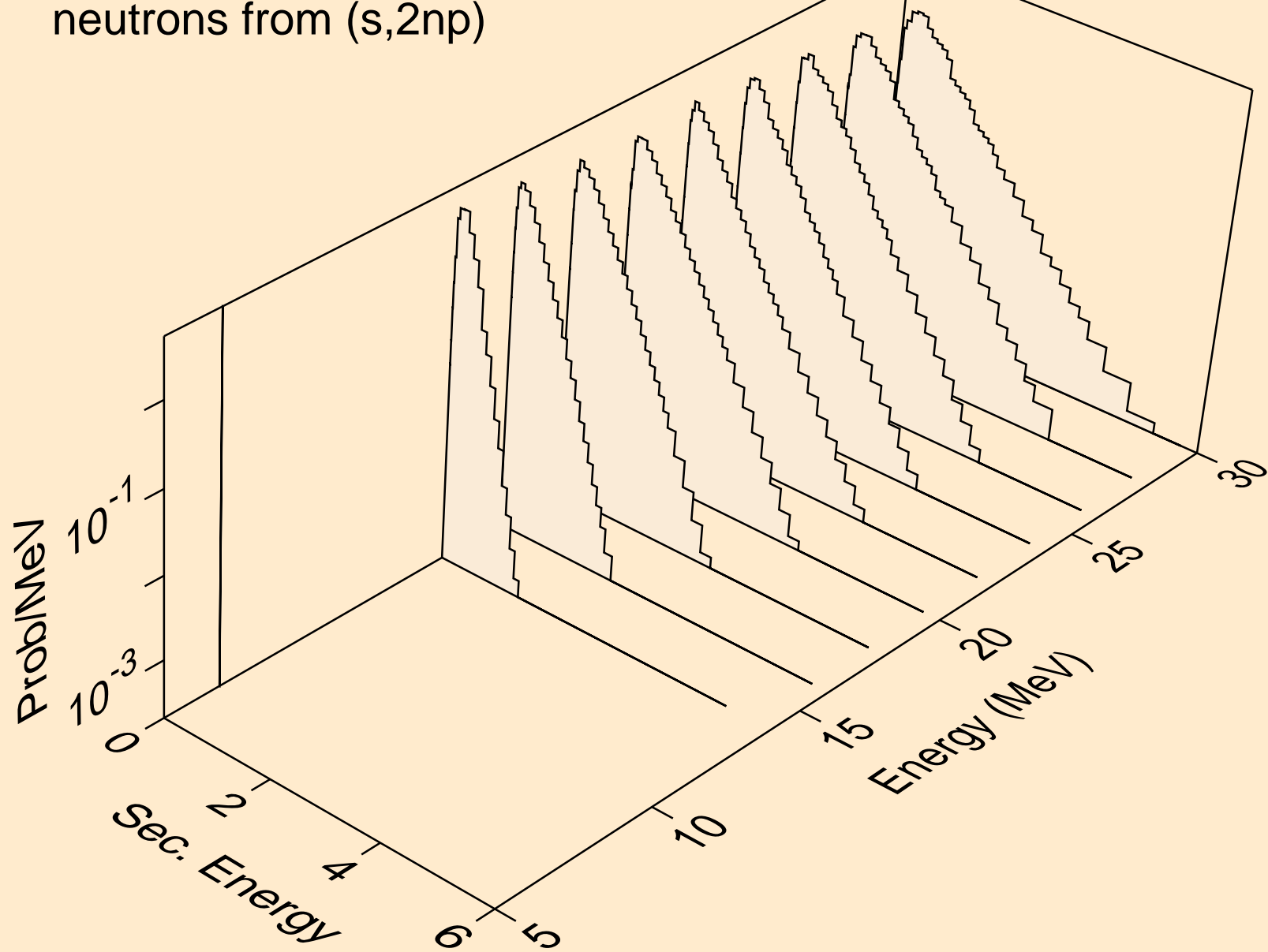
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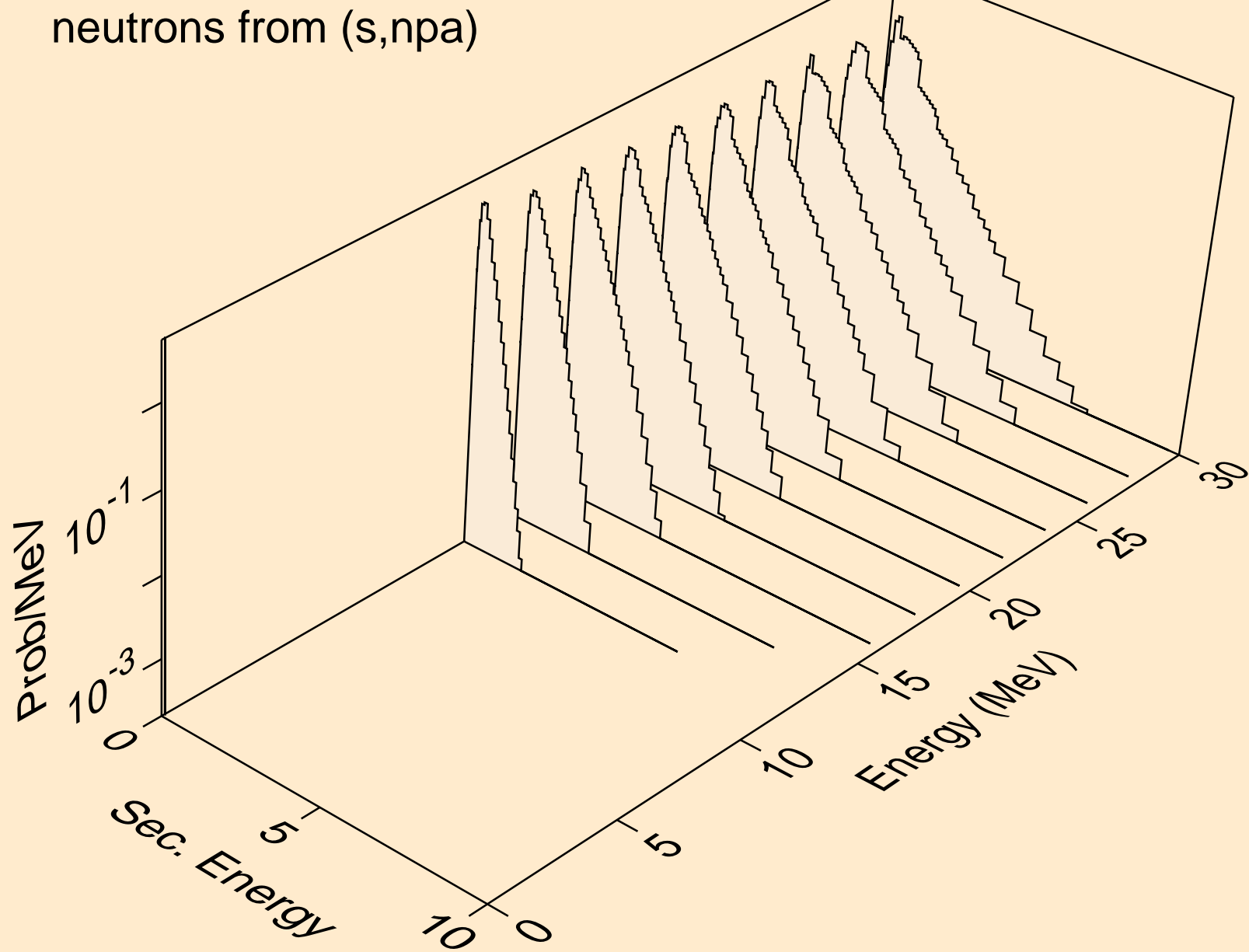
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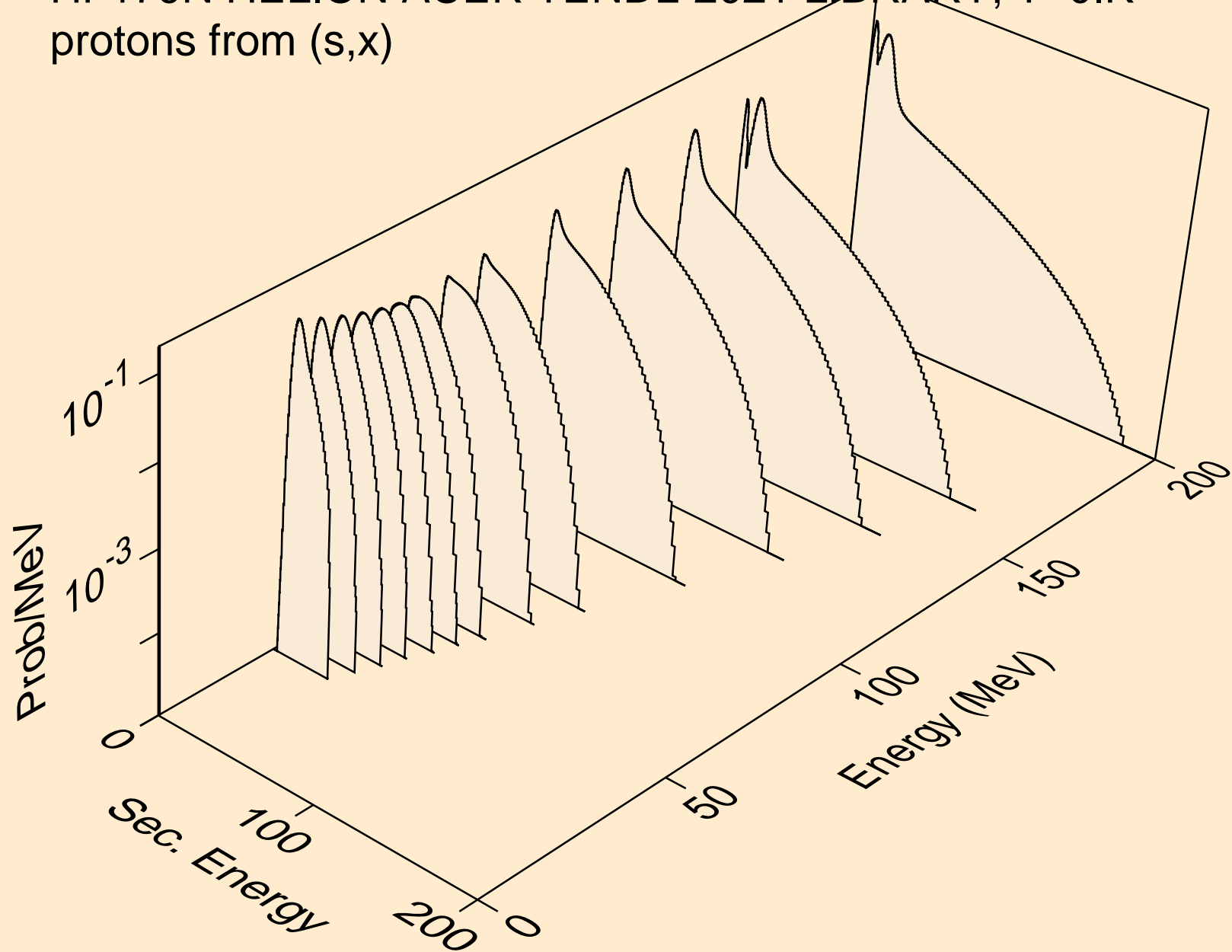
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neutrons from (s,2np)



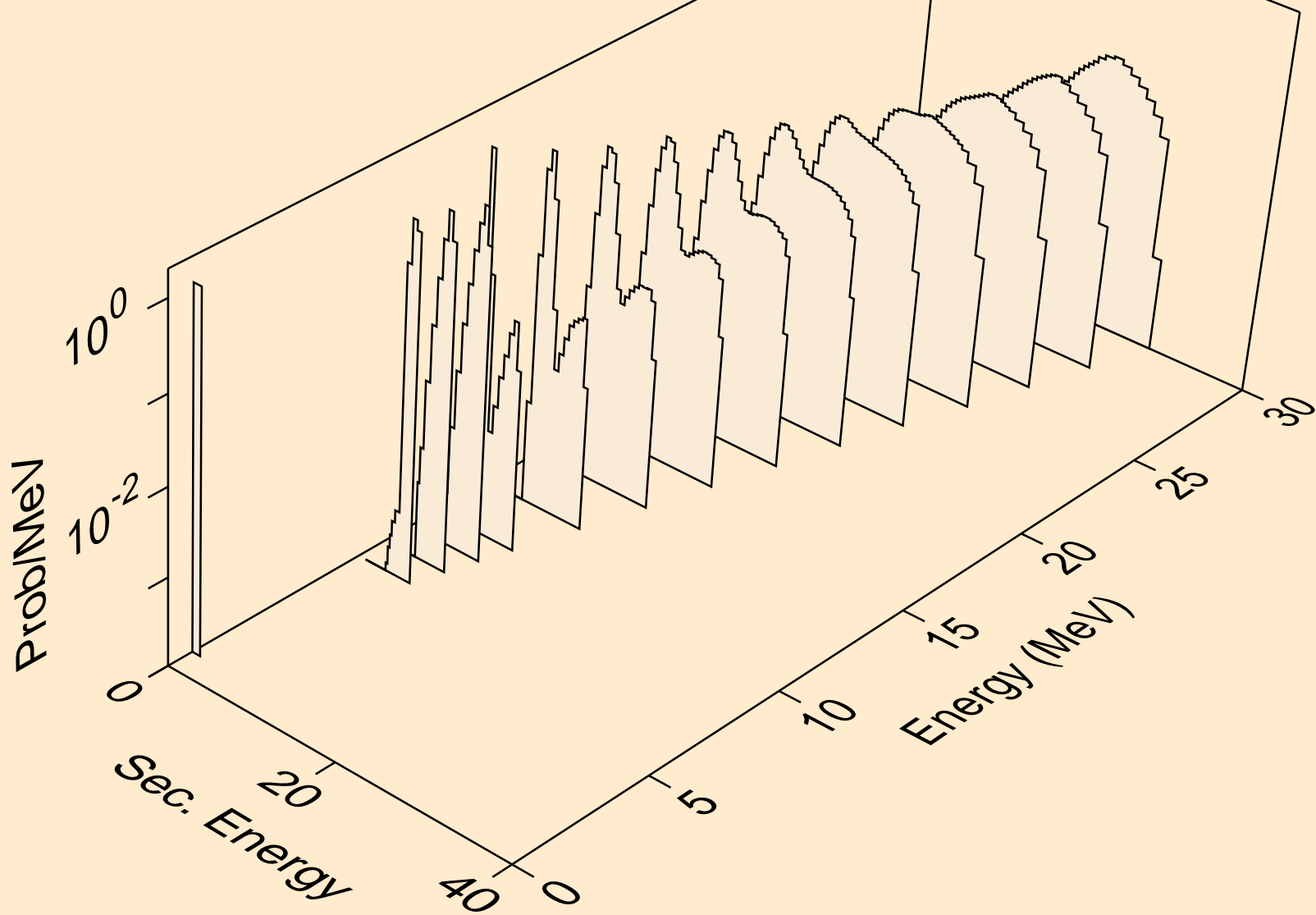
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neutrons from (s,npa)



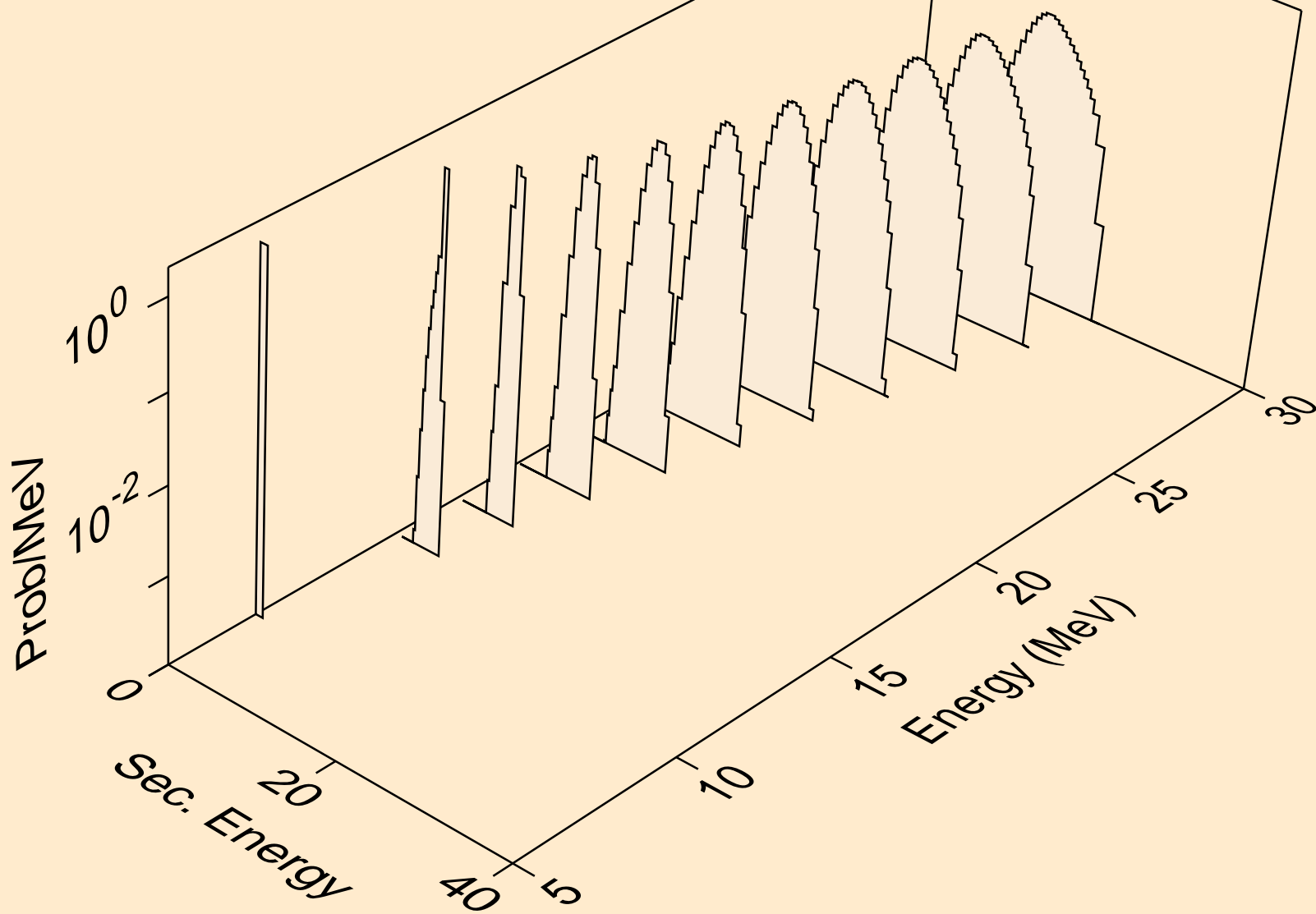
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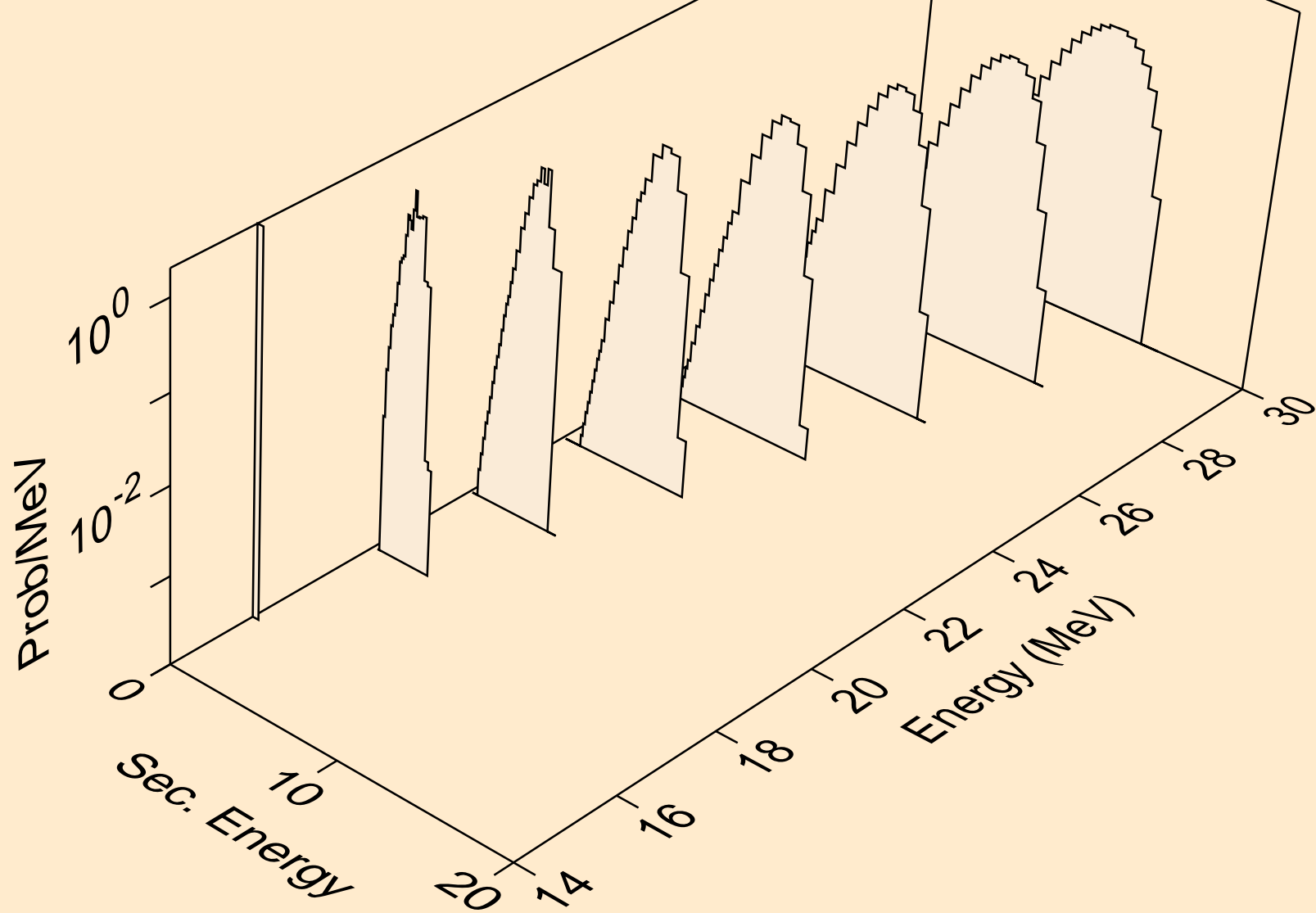
HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,n\*)p



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
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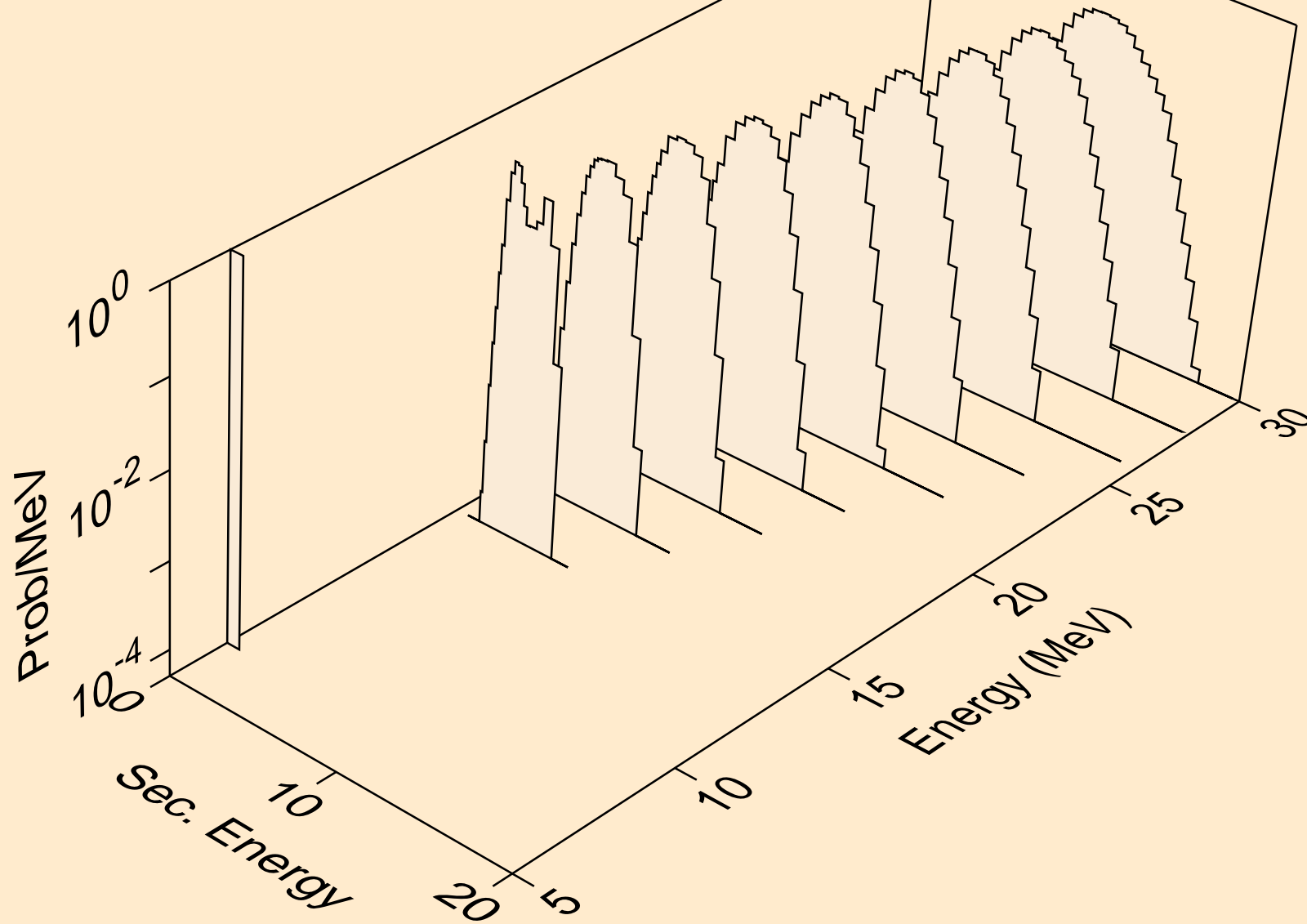


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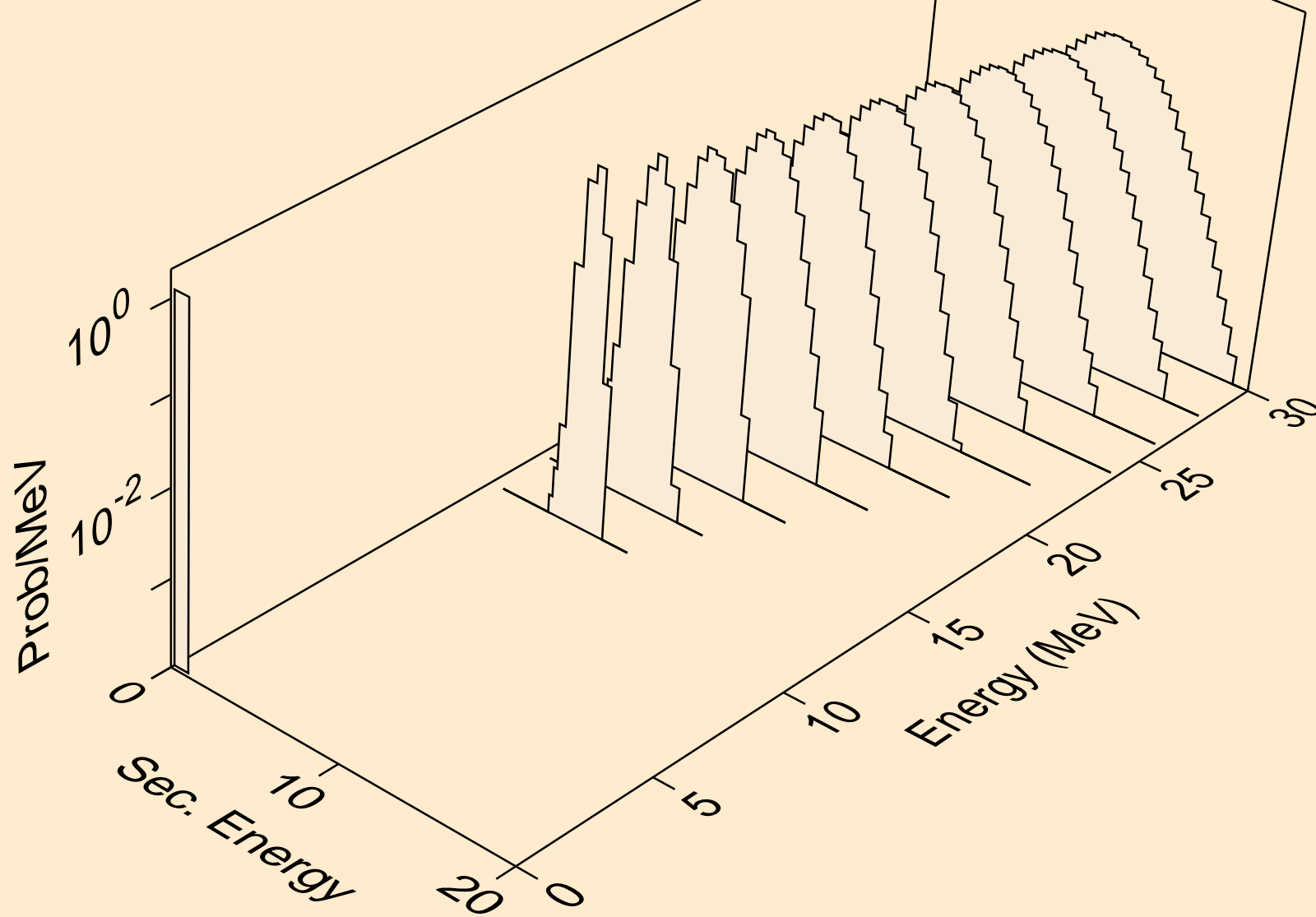




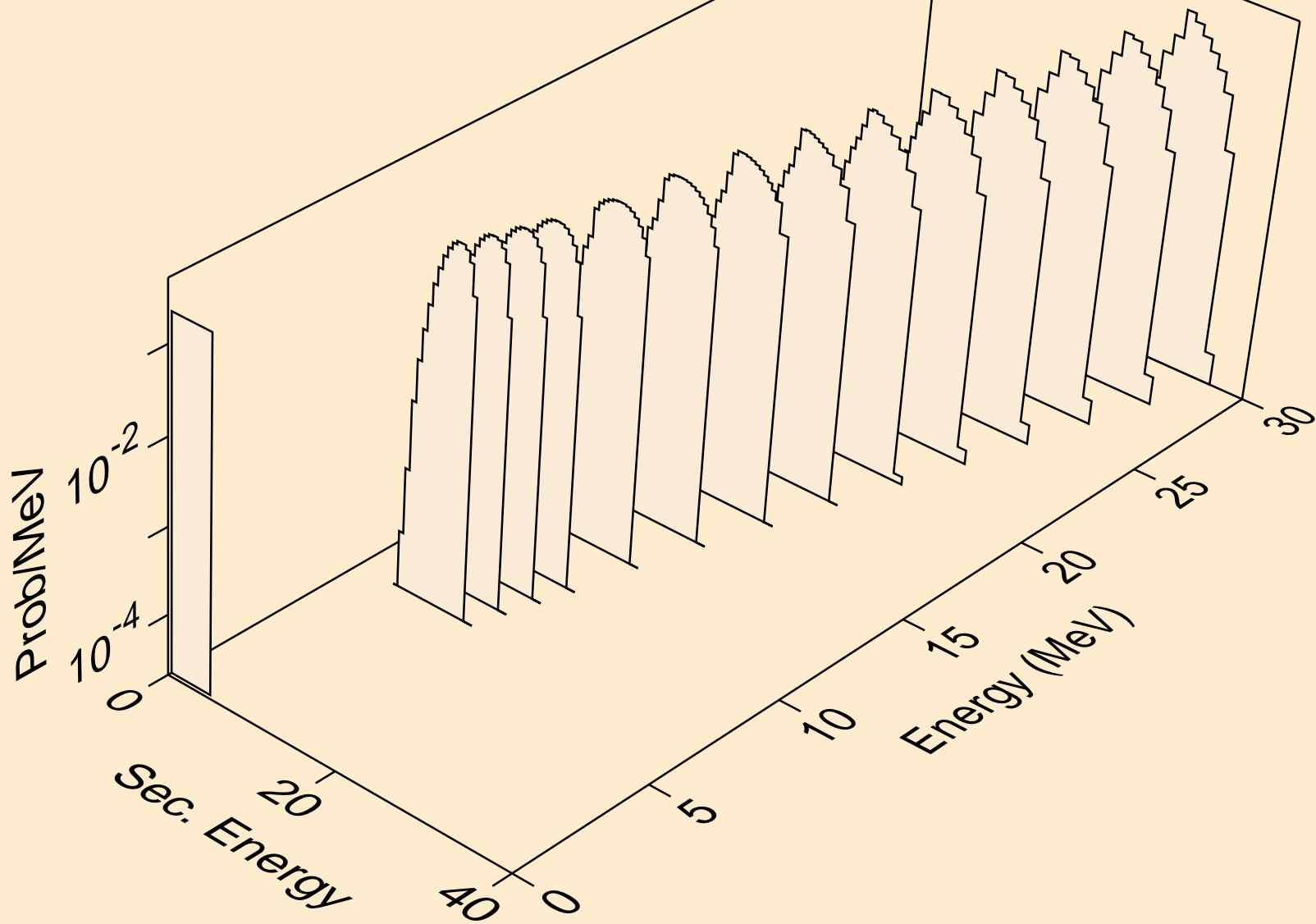
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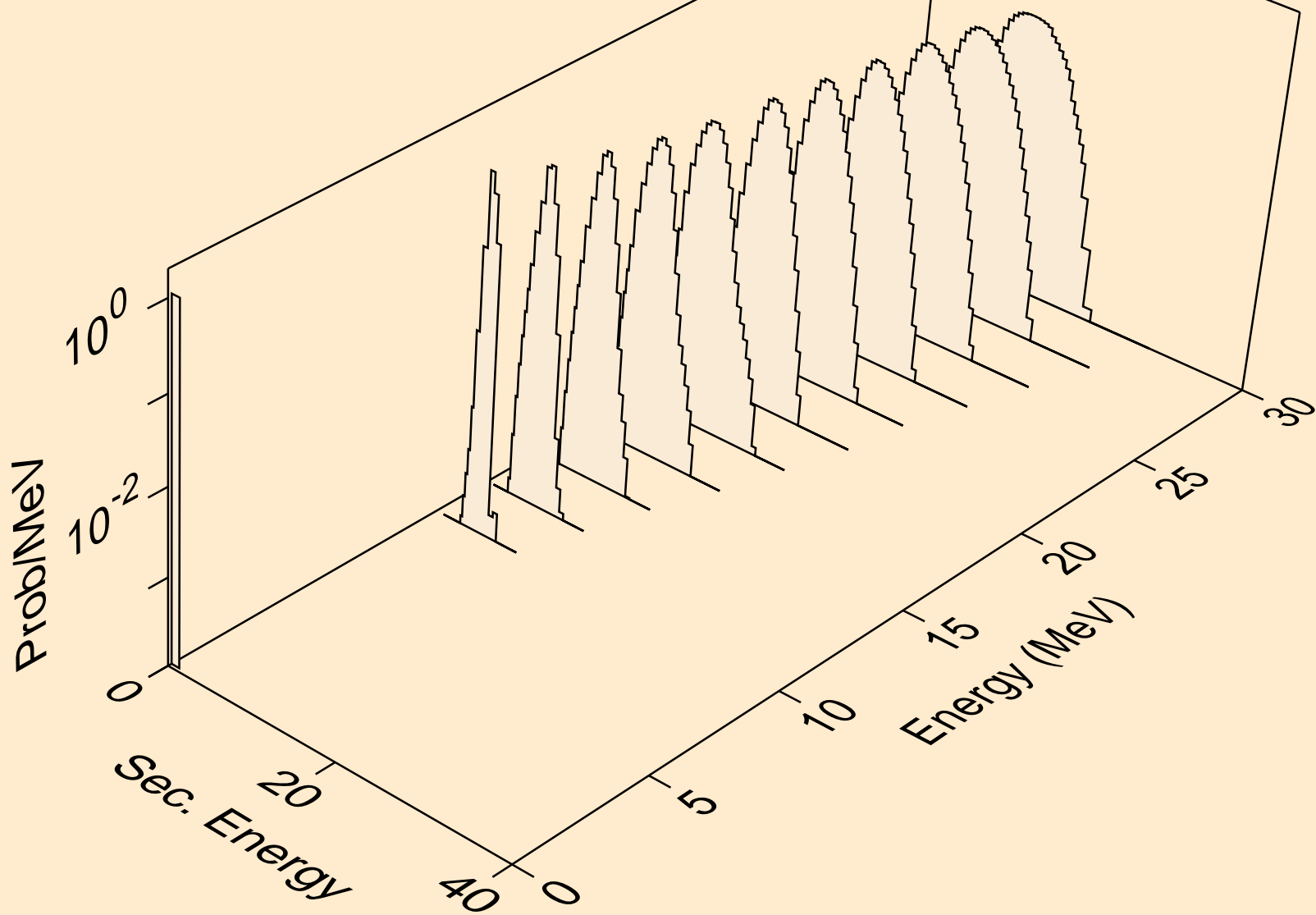
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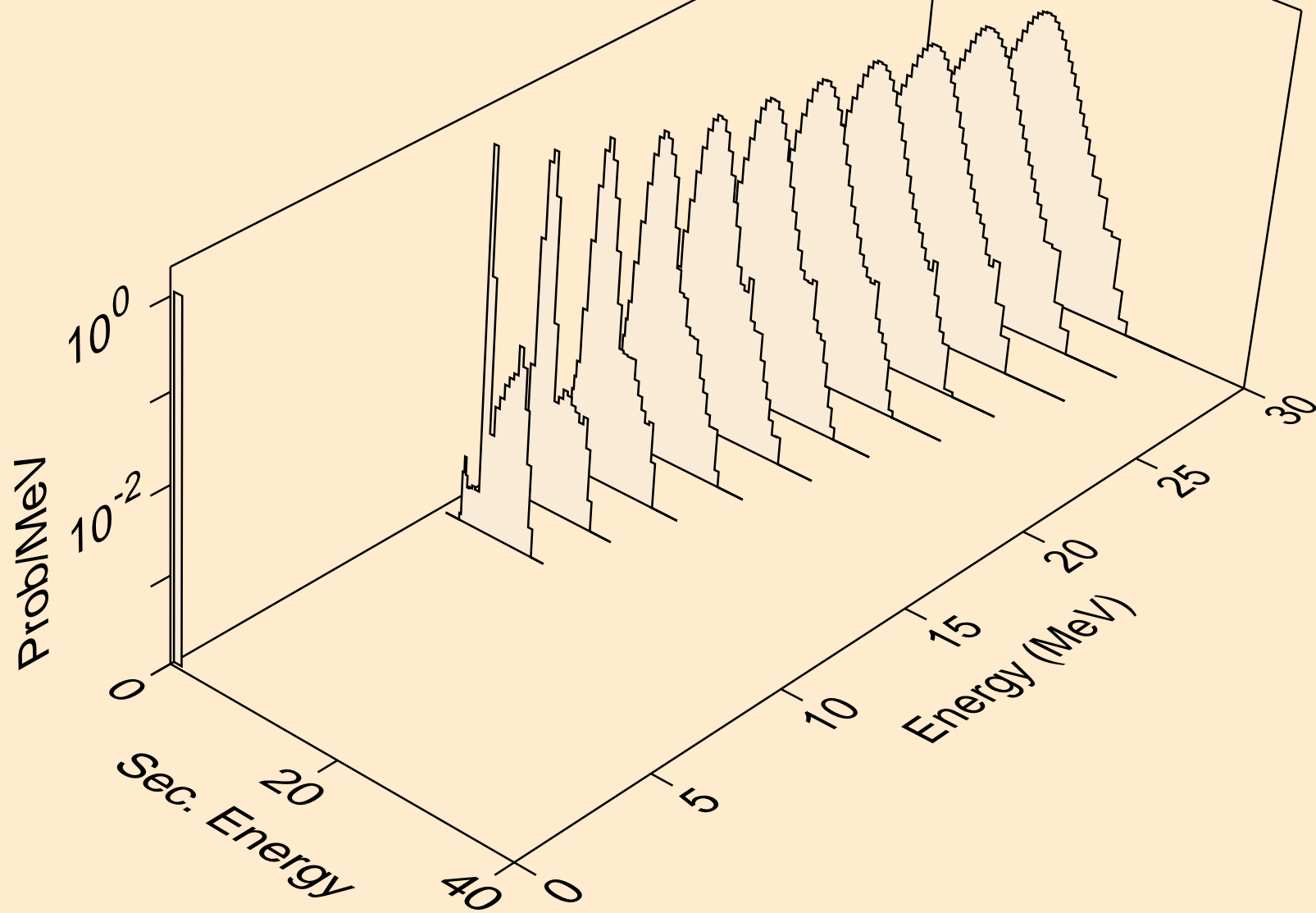
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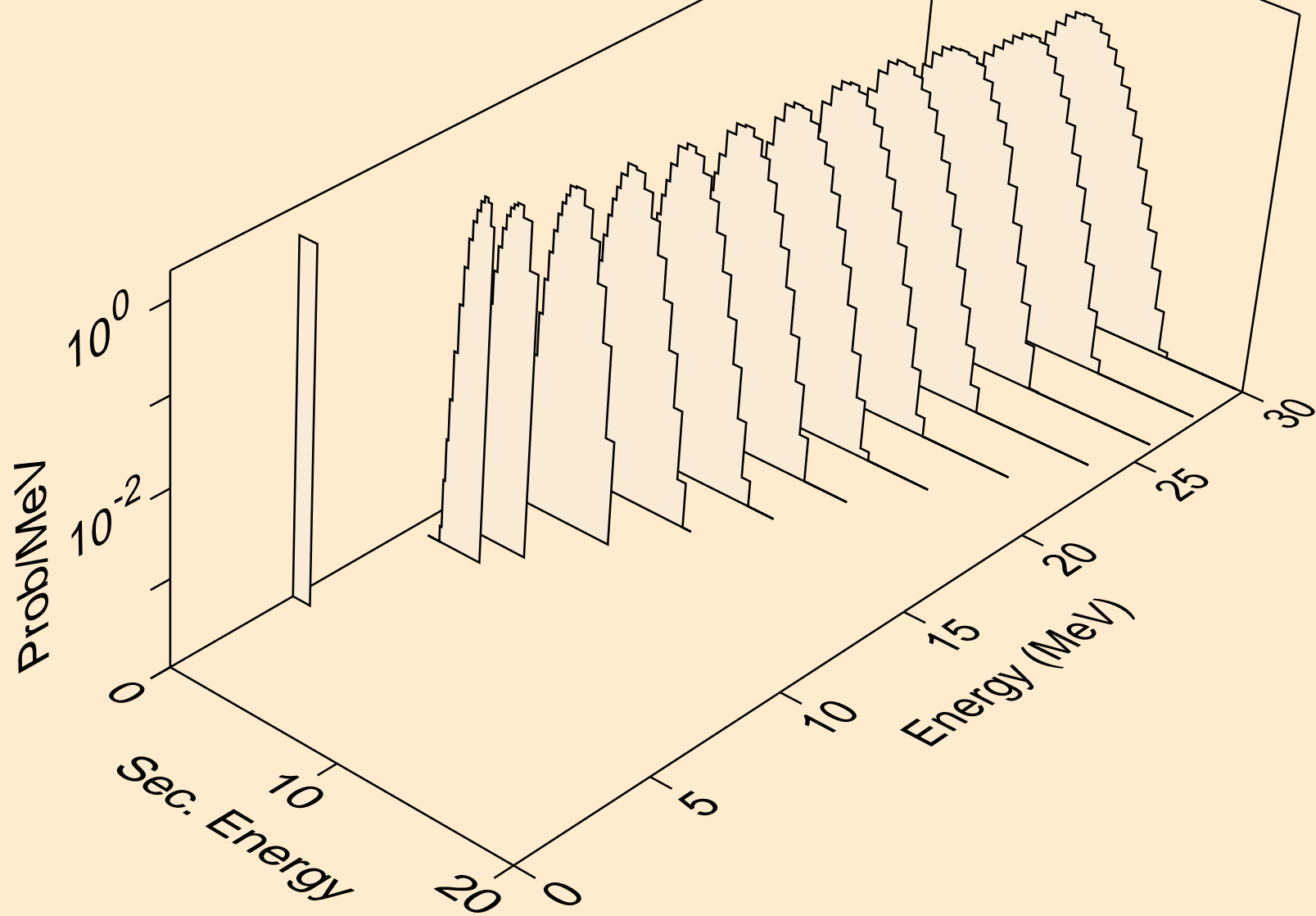
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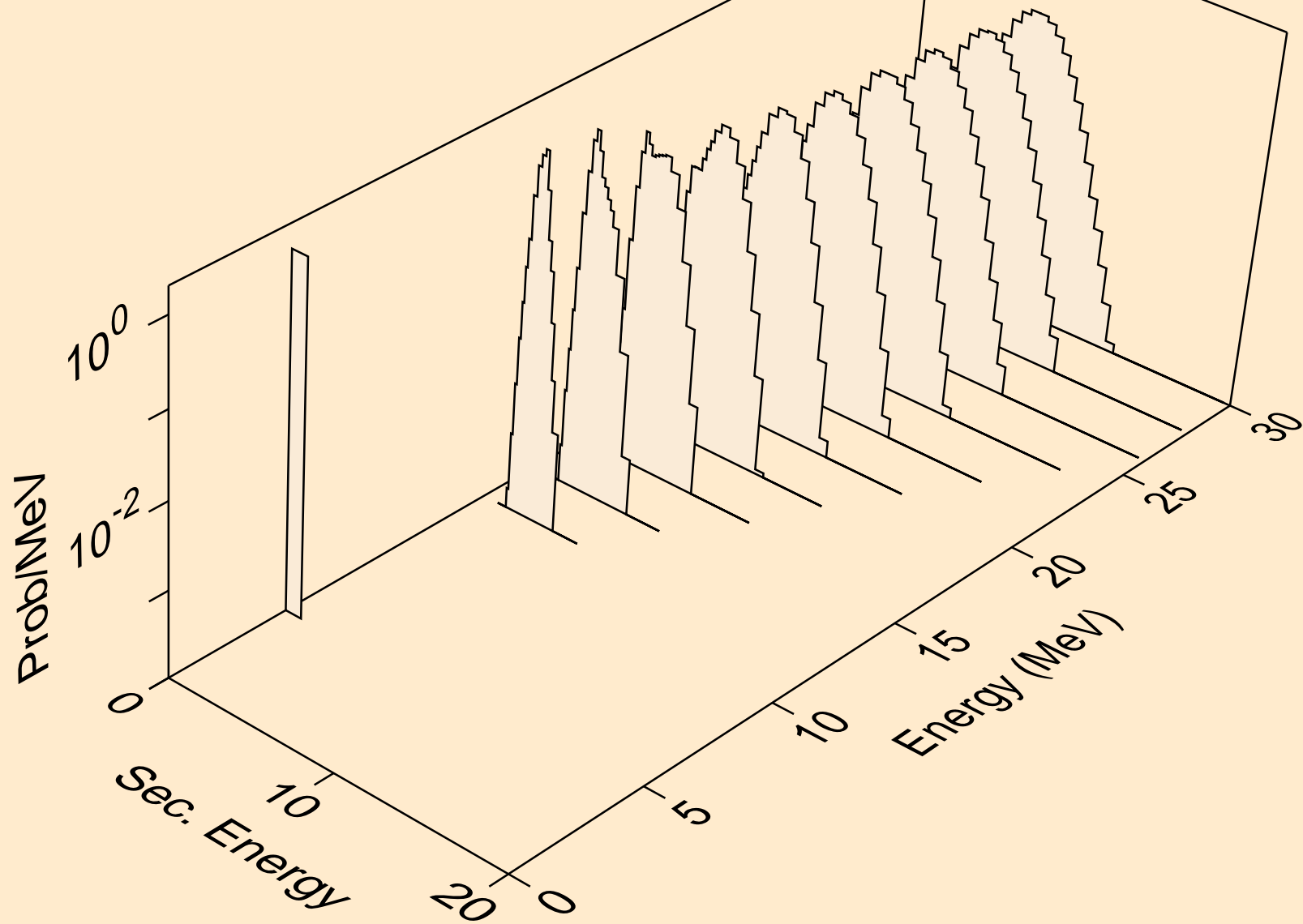
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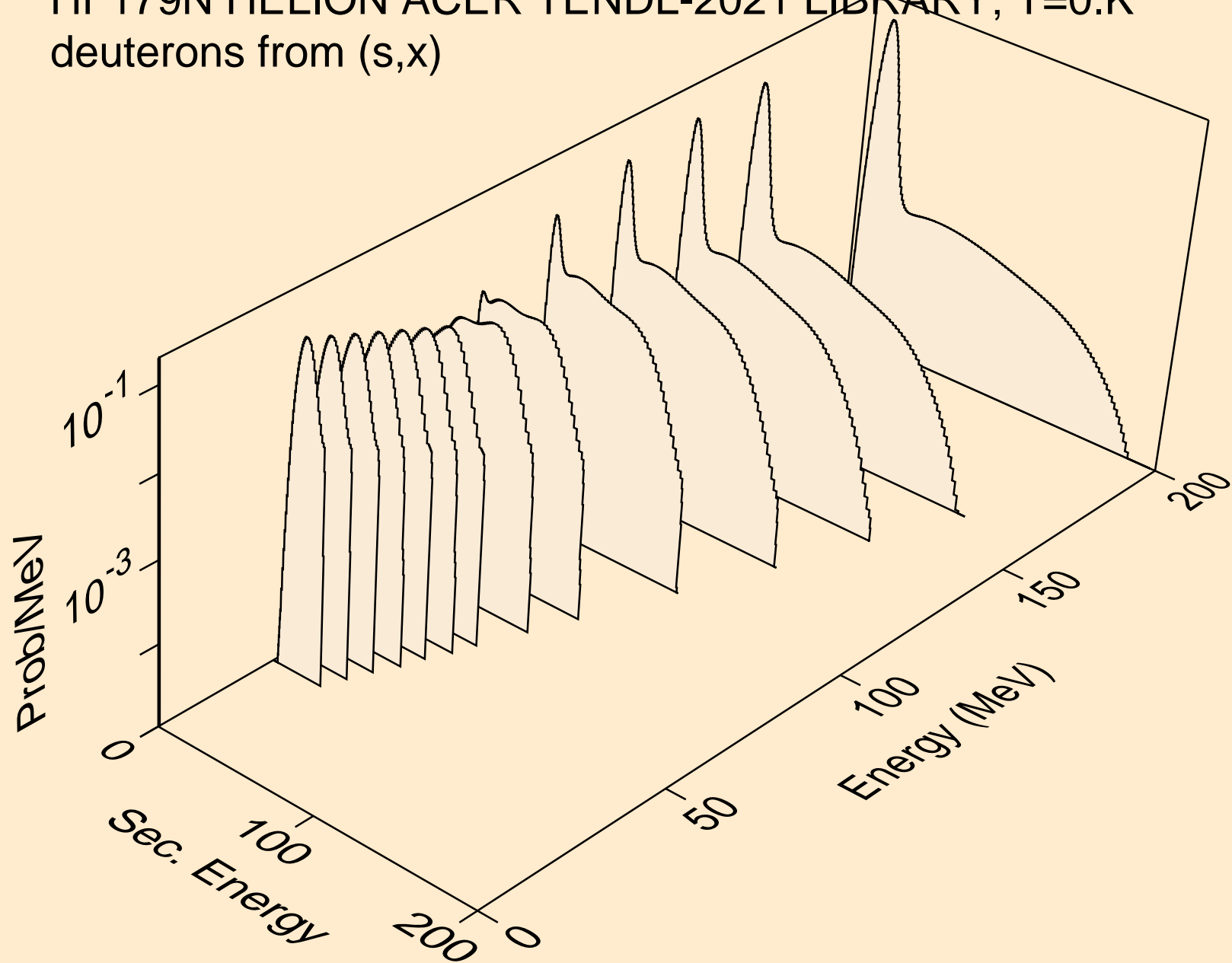
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protons from (s,pd)



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protons from (s,pt)

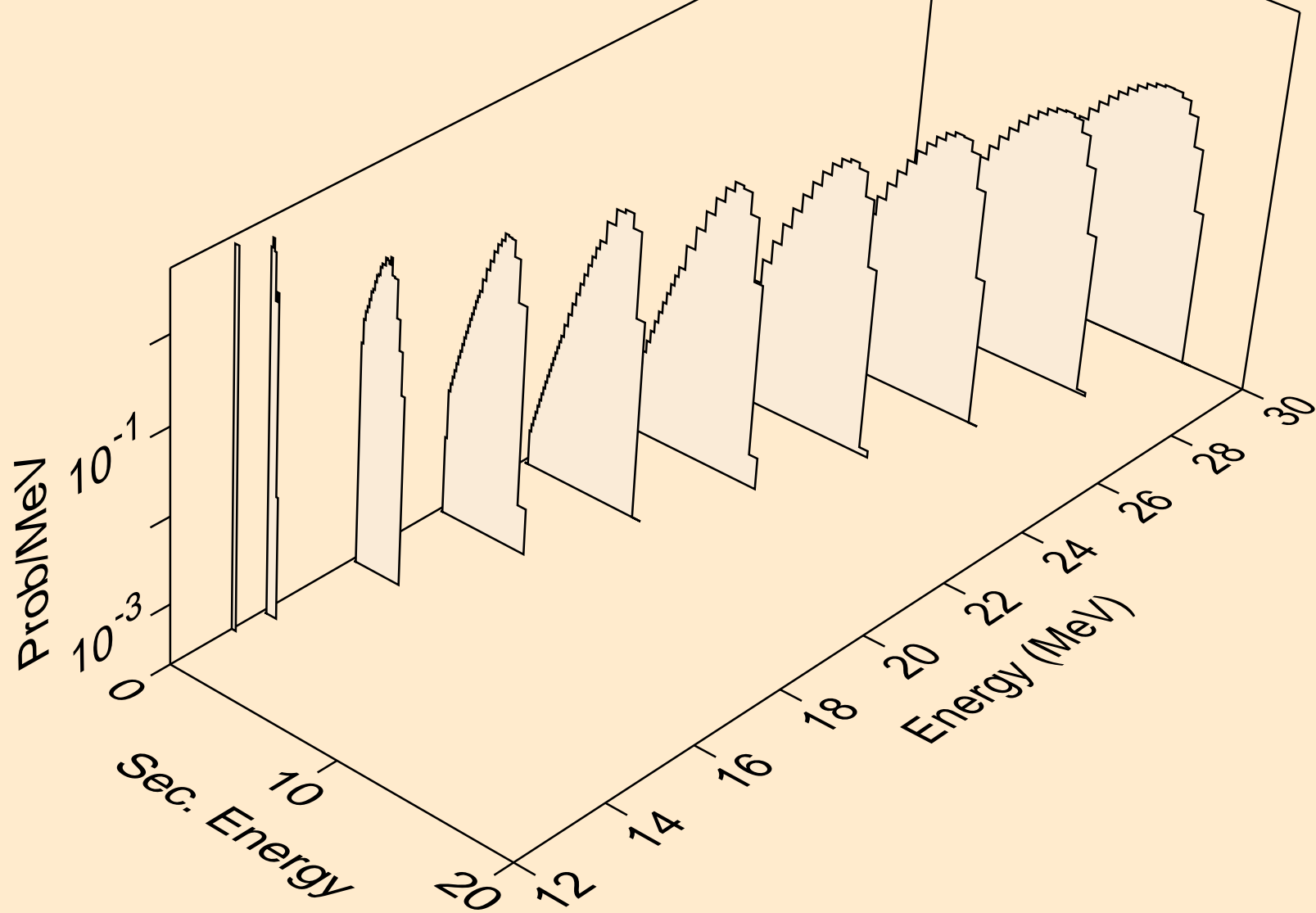


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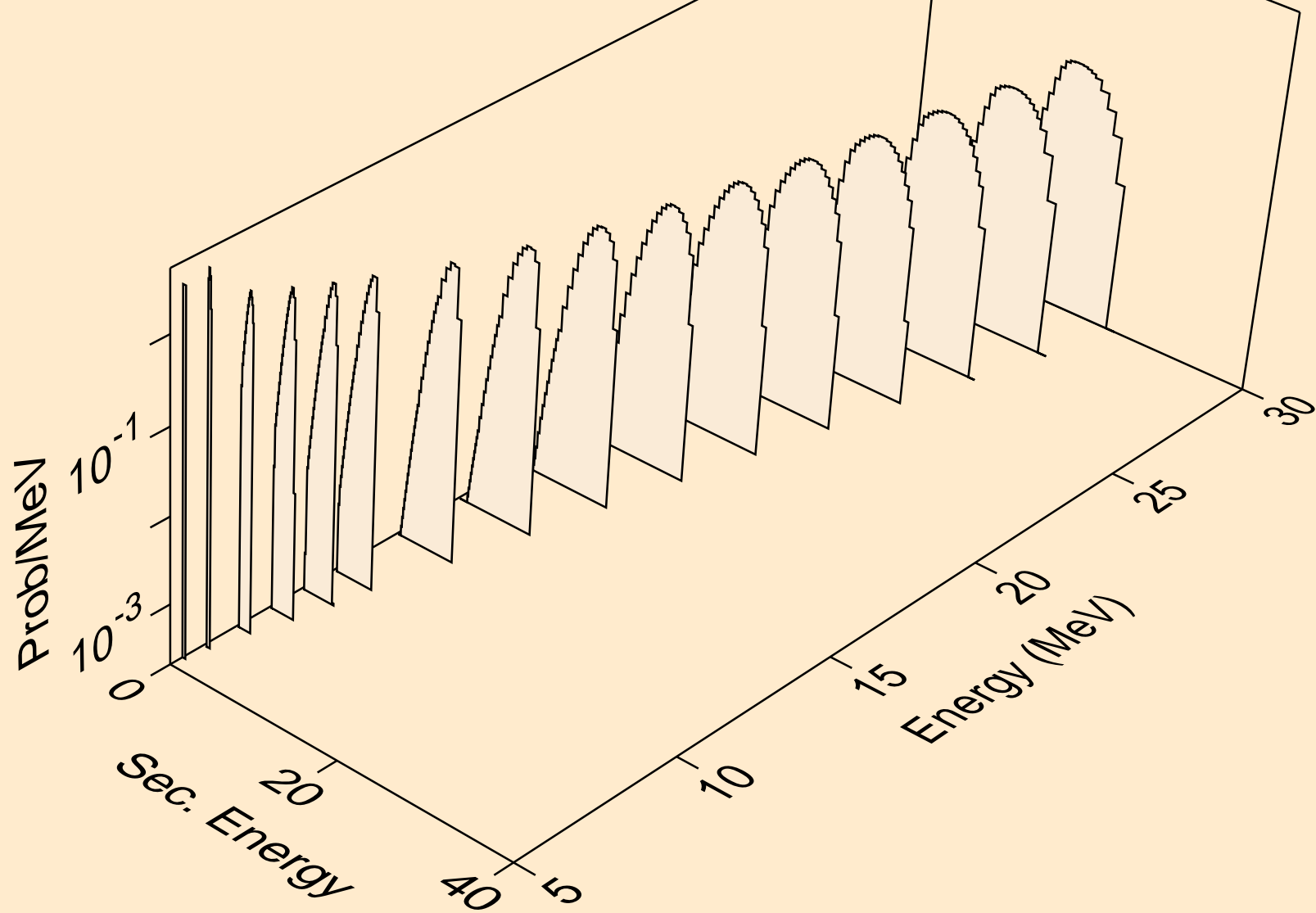




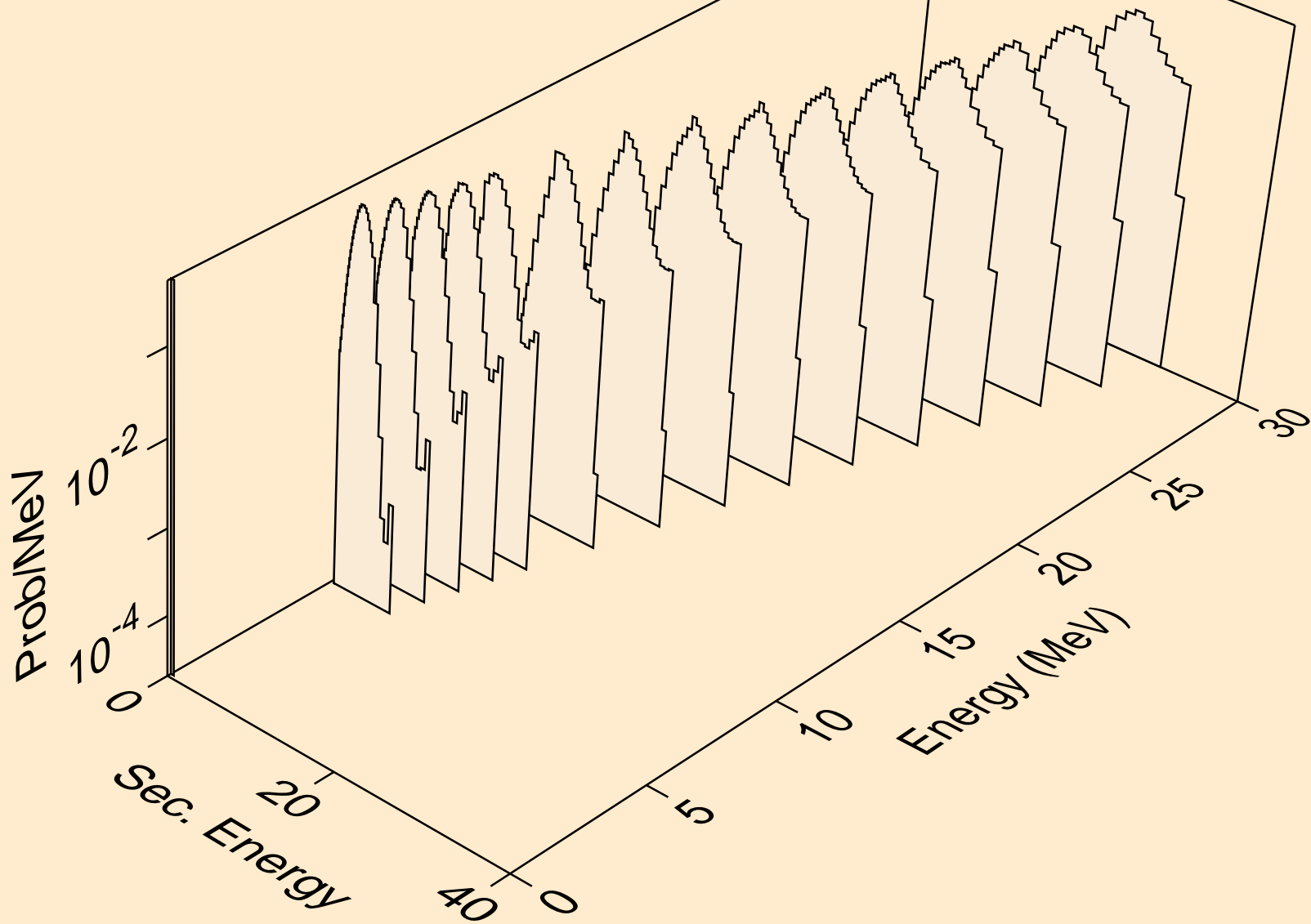
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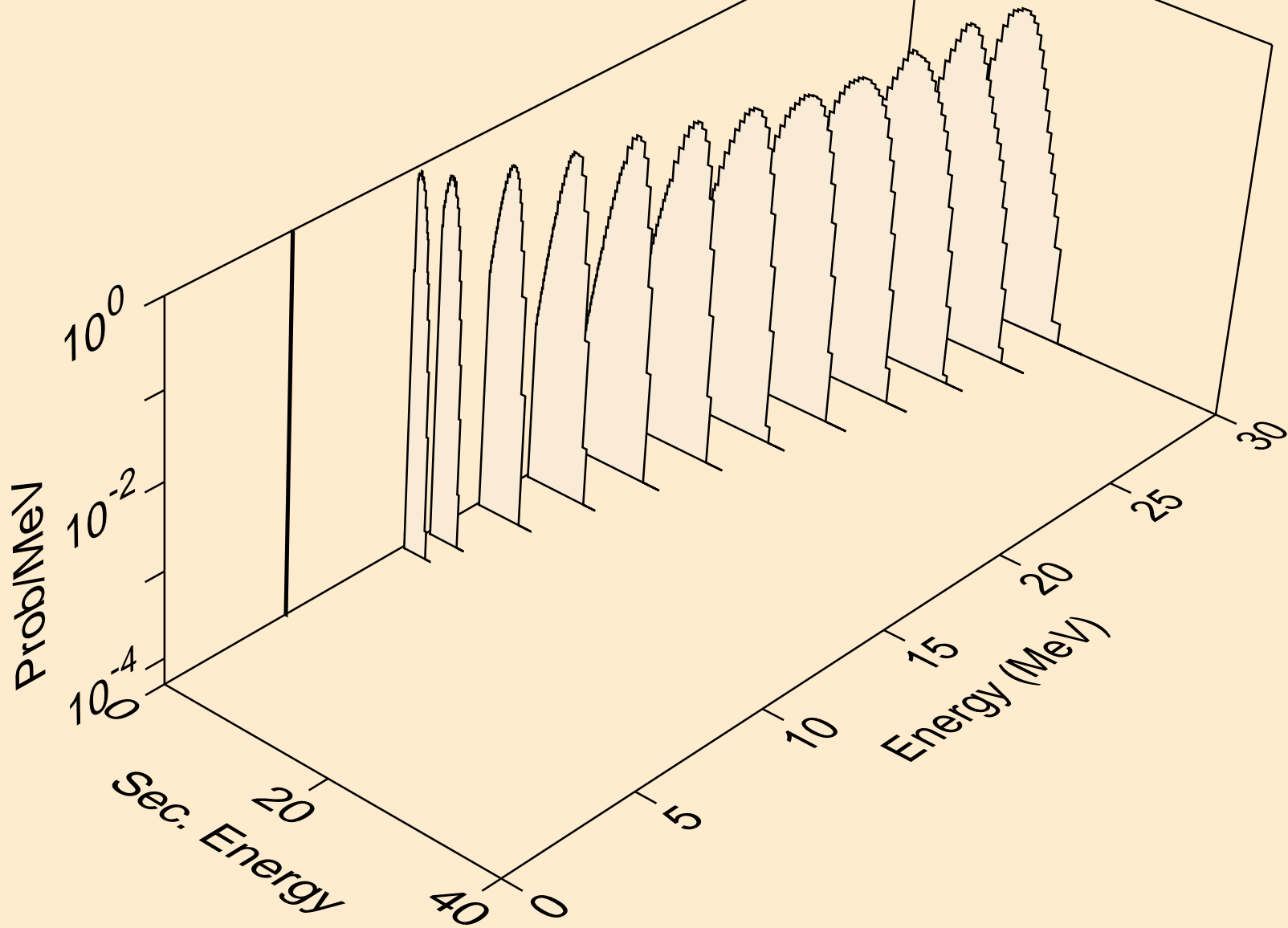
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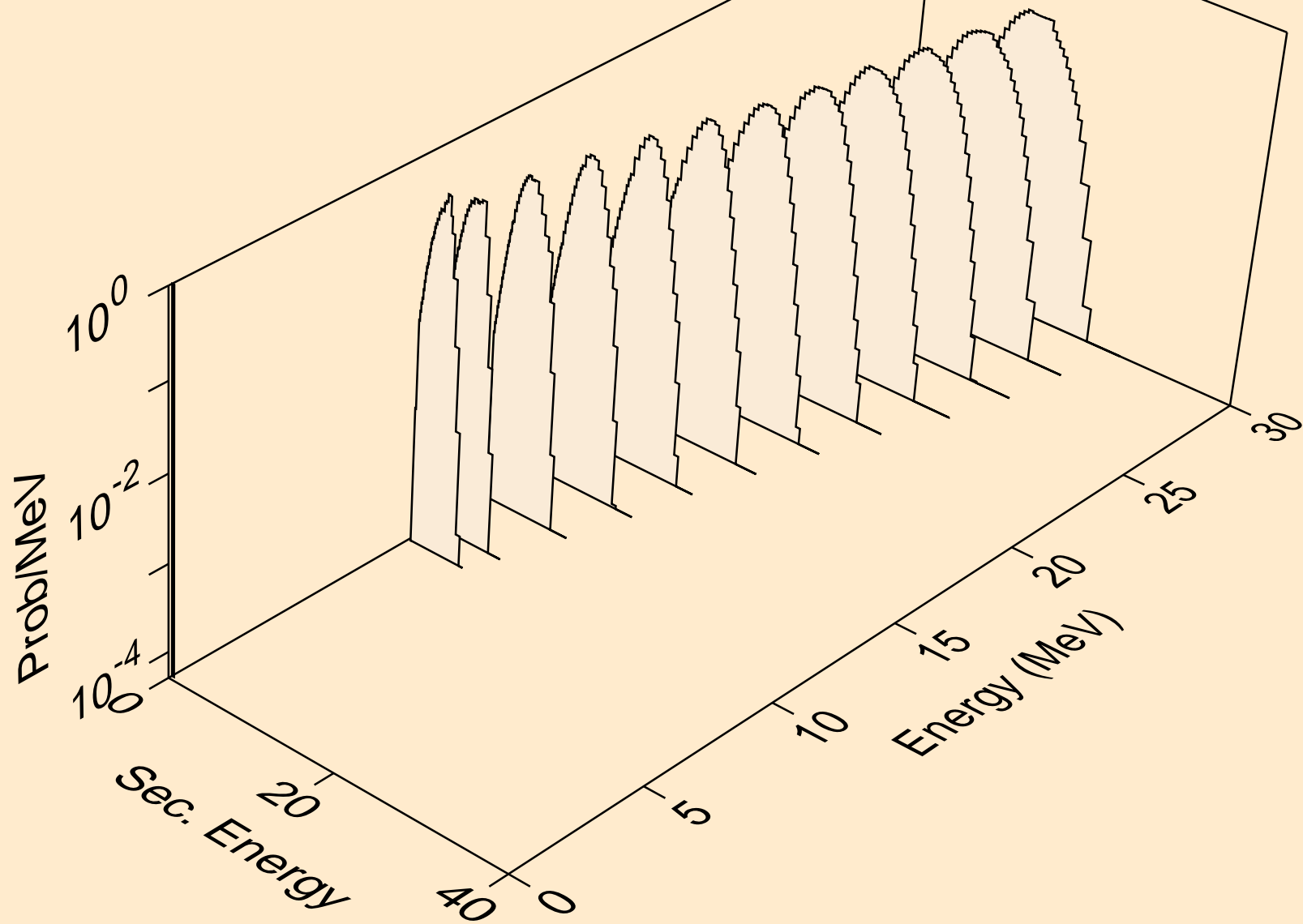
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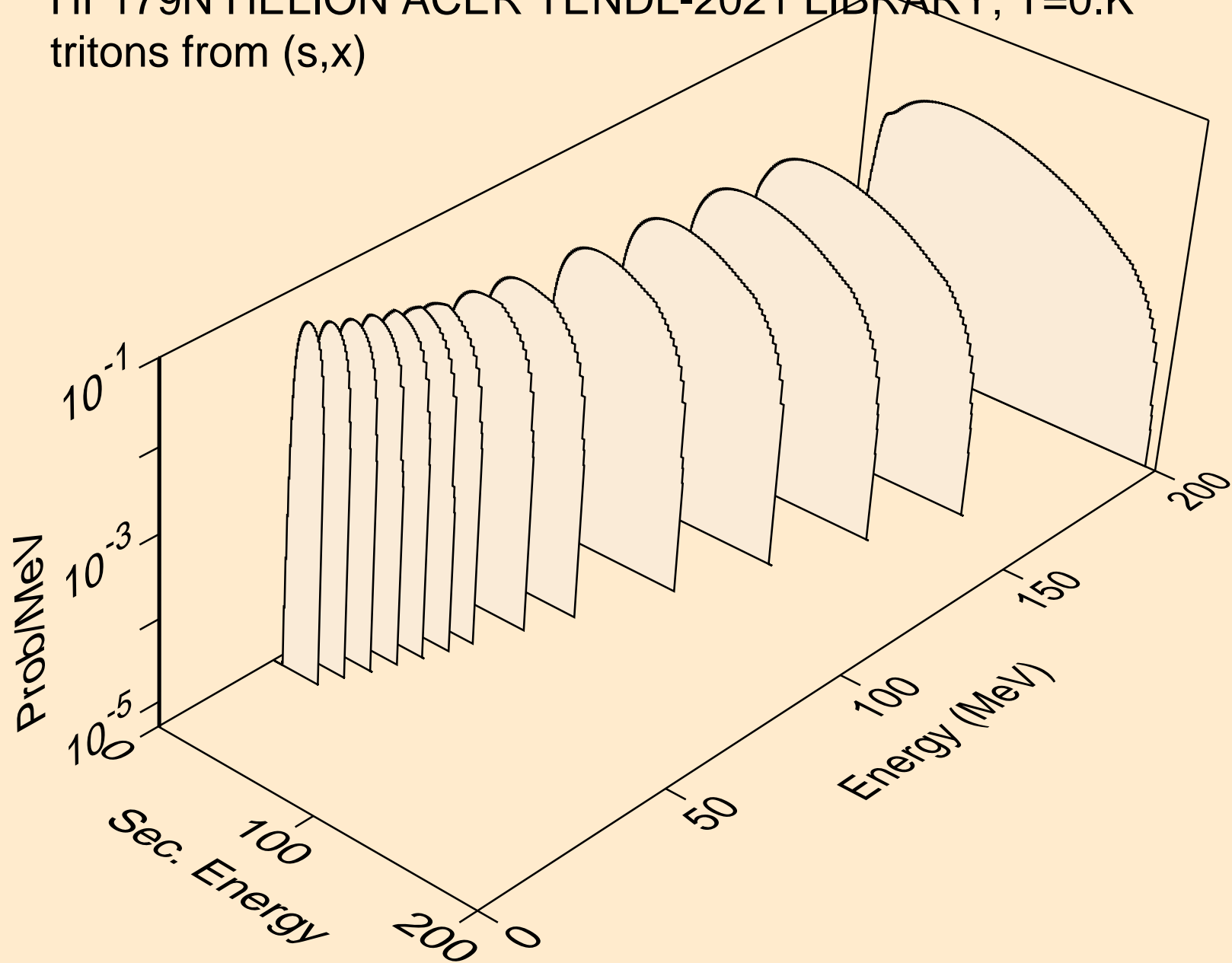
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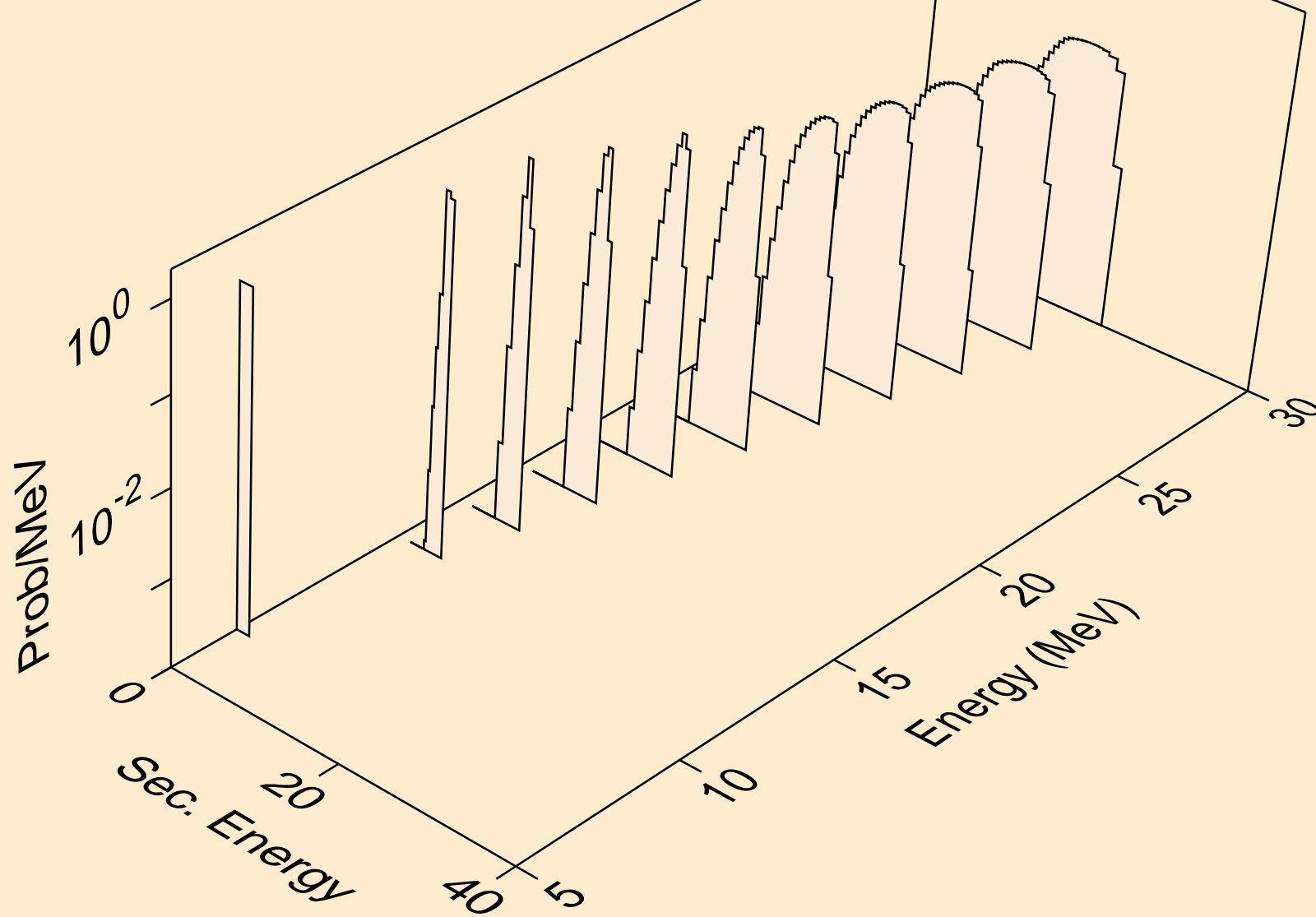
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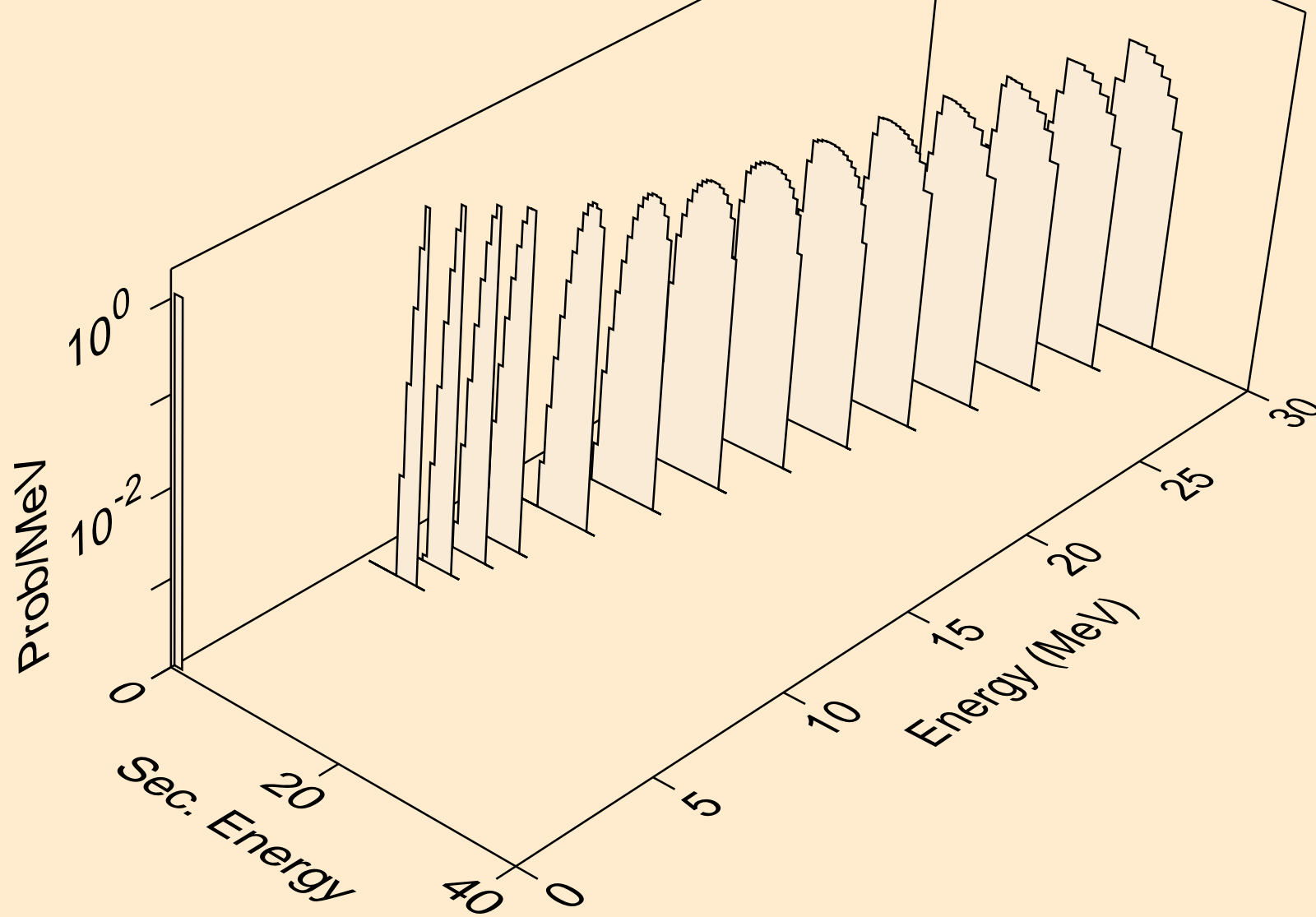
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tritons from (s,x)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,n\*)t

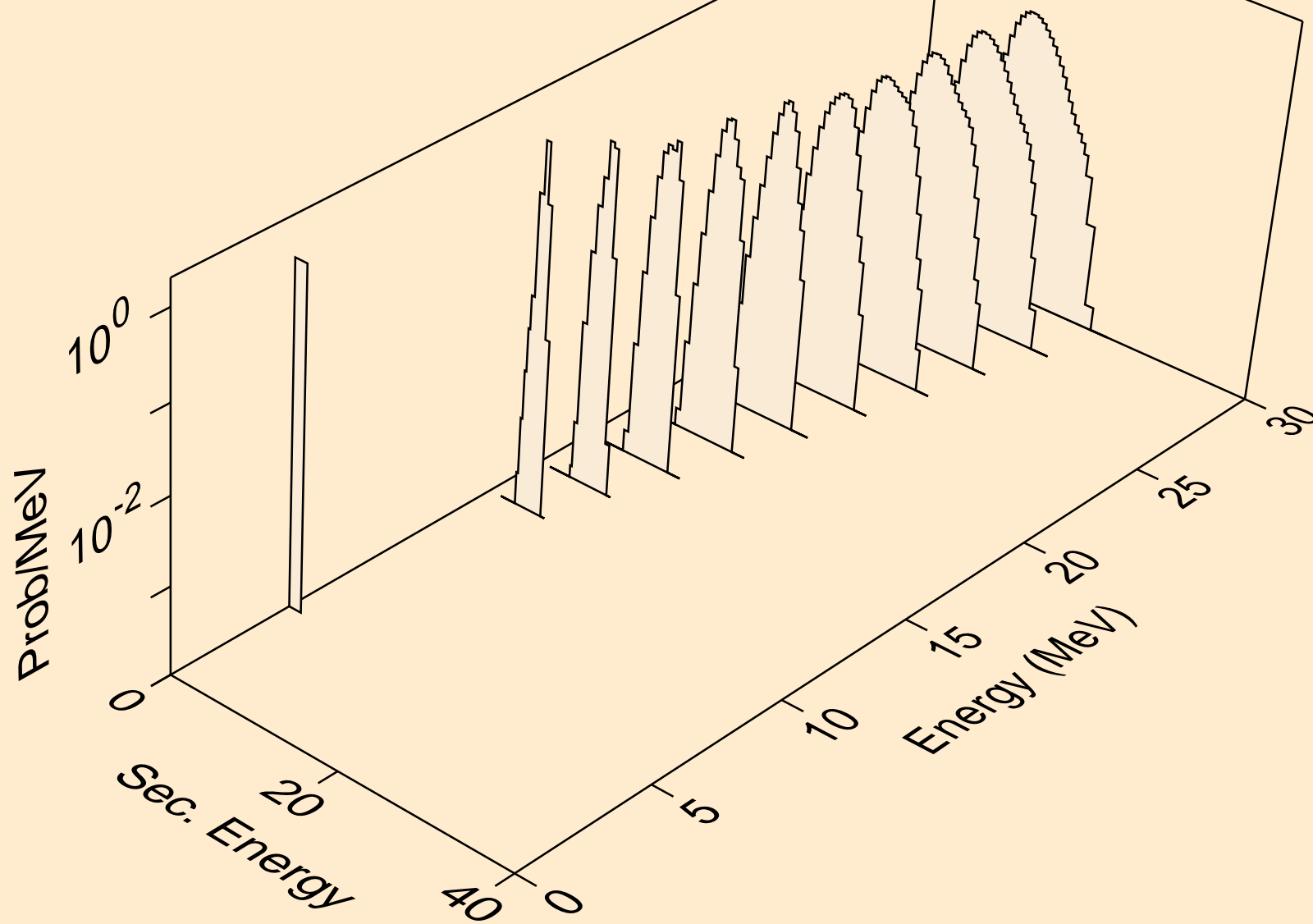


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tritons from (s,t)

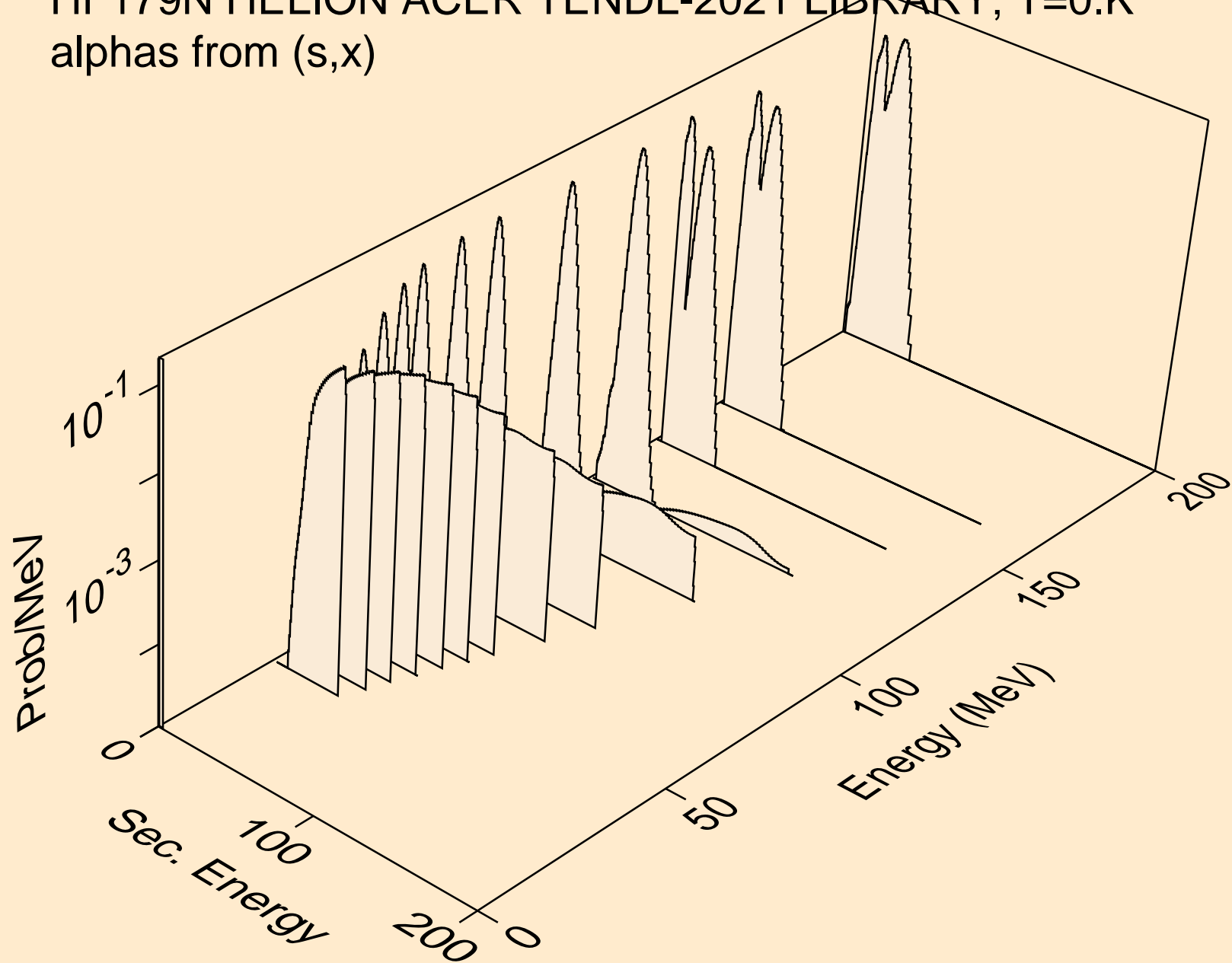




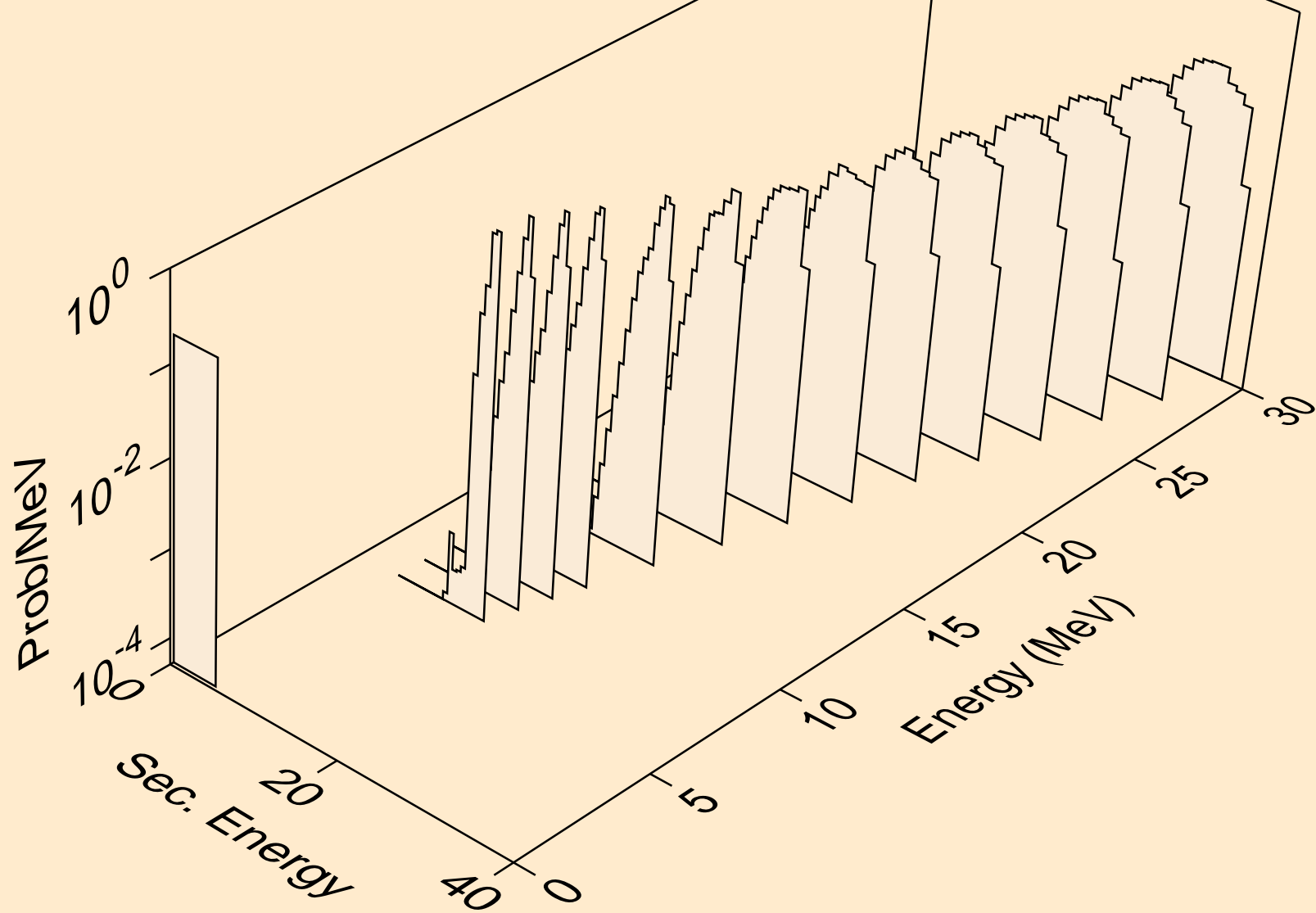
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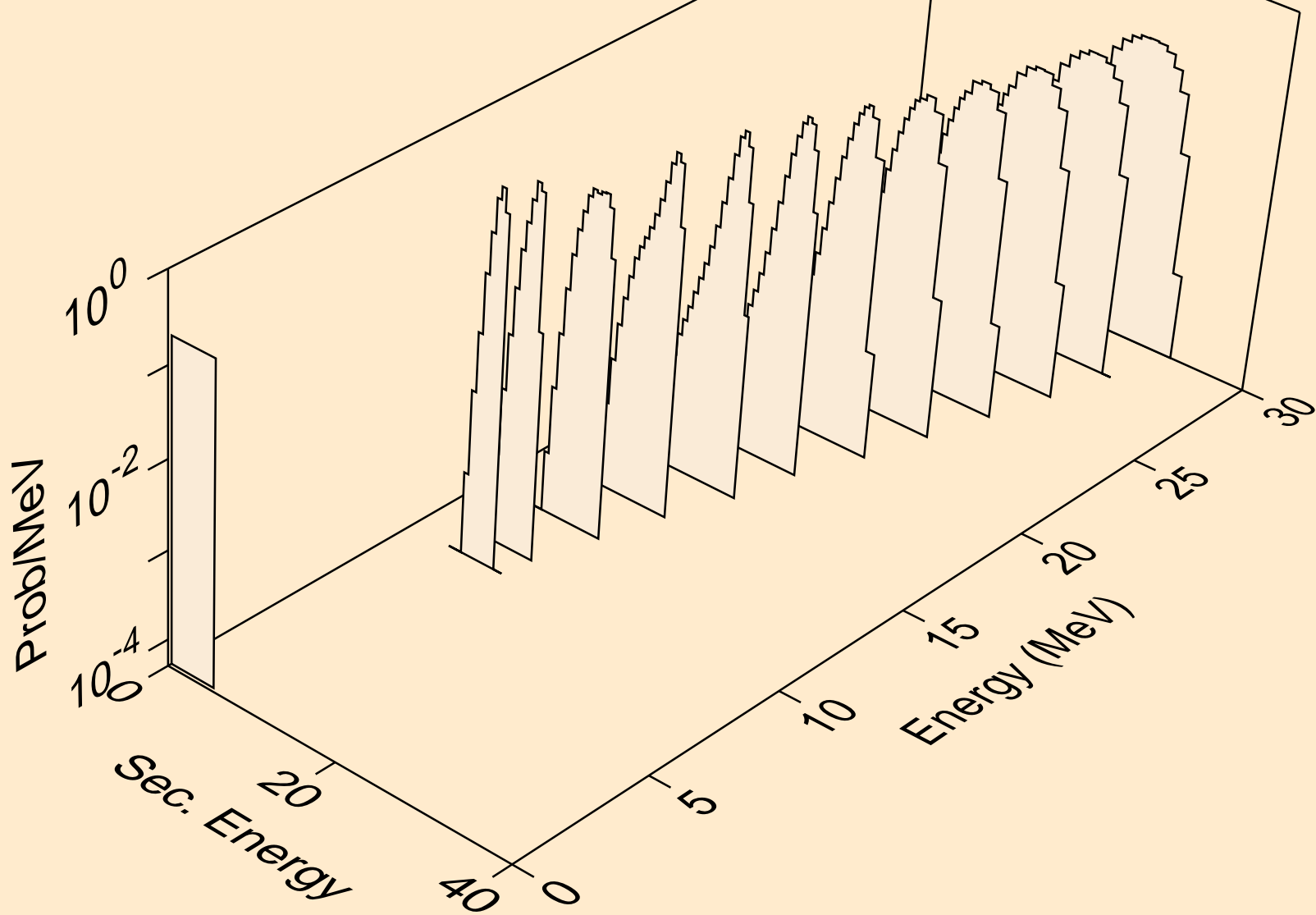
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alphas from (s,x)



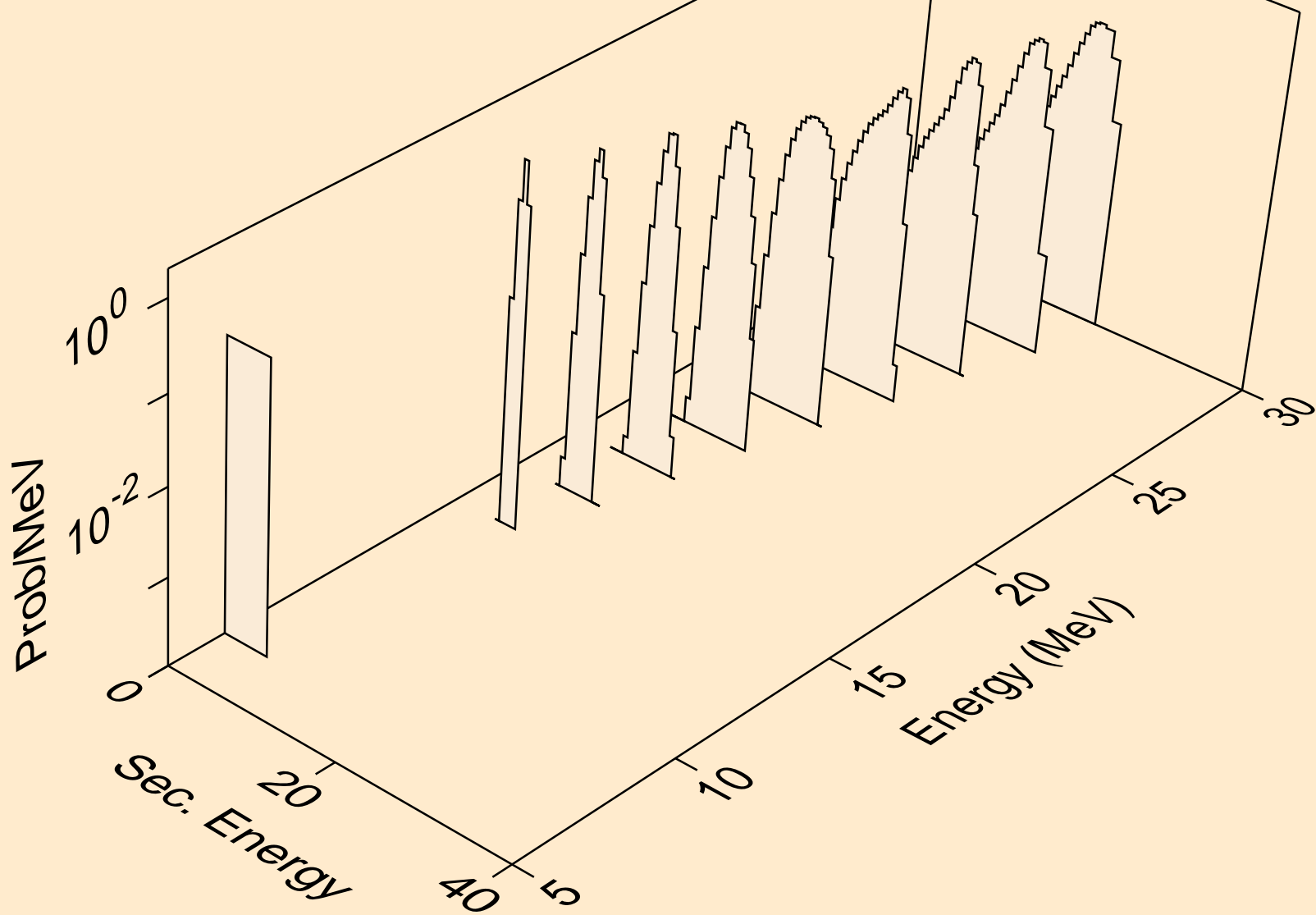
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alphas from (s,n\*)a



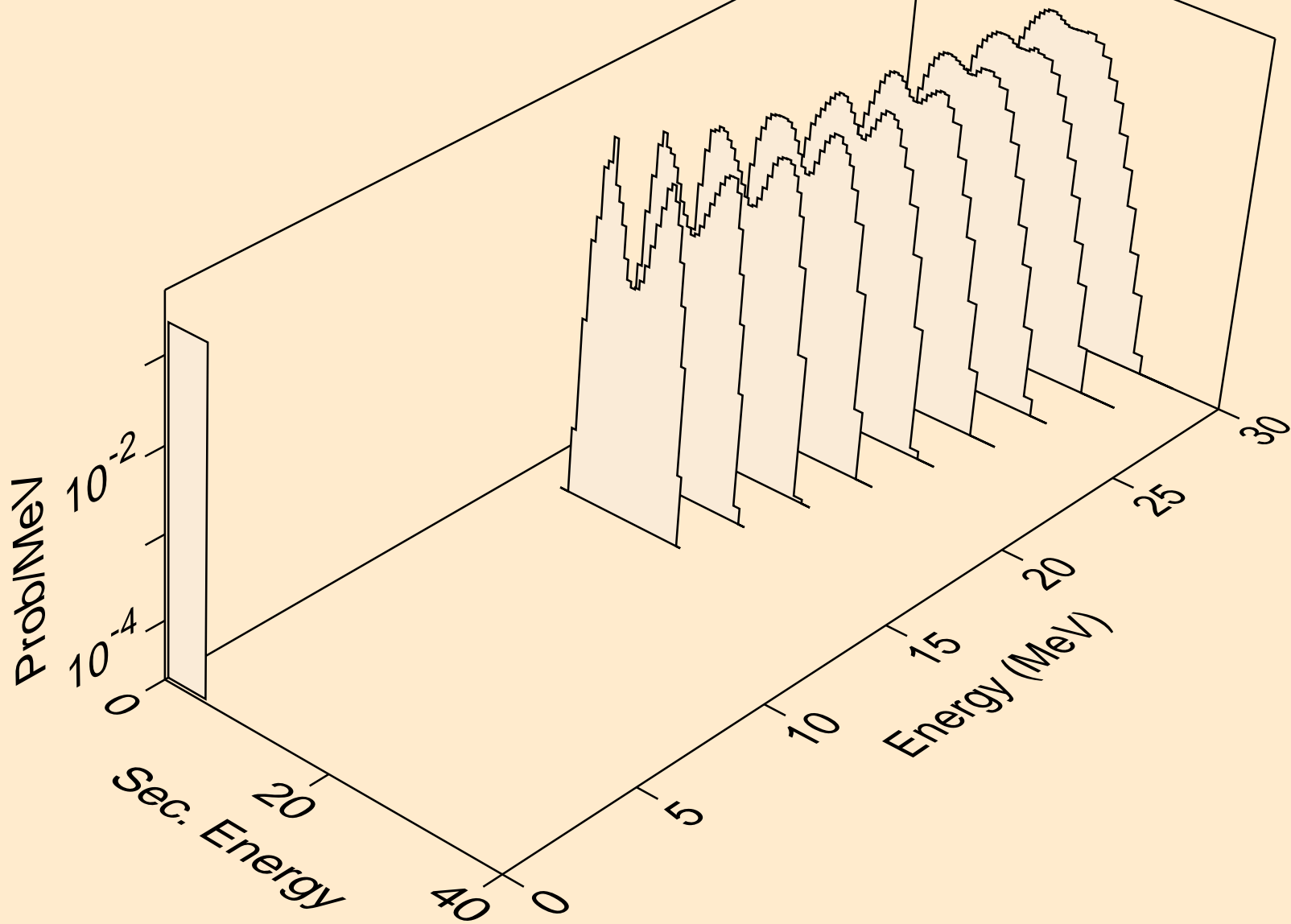
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alphas from (s,2n)a



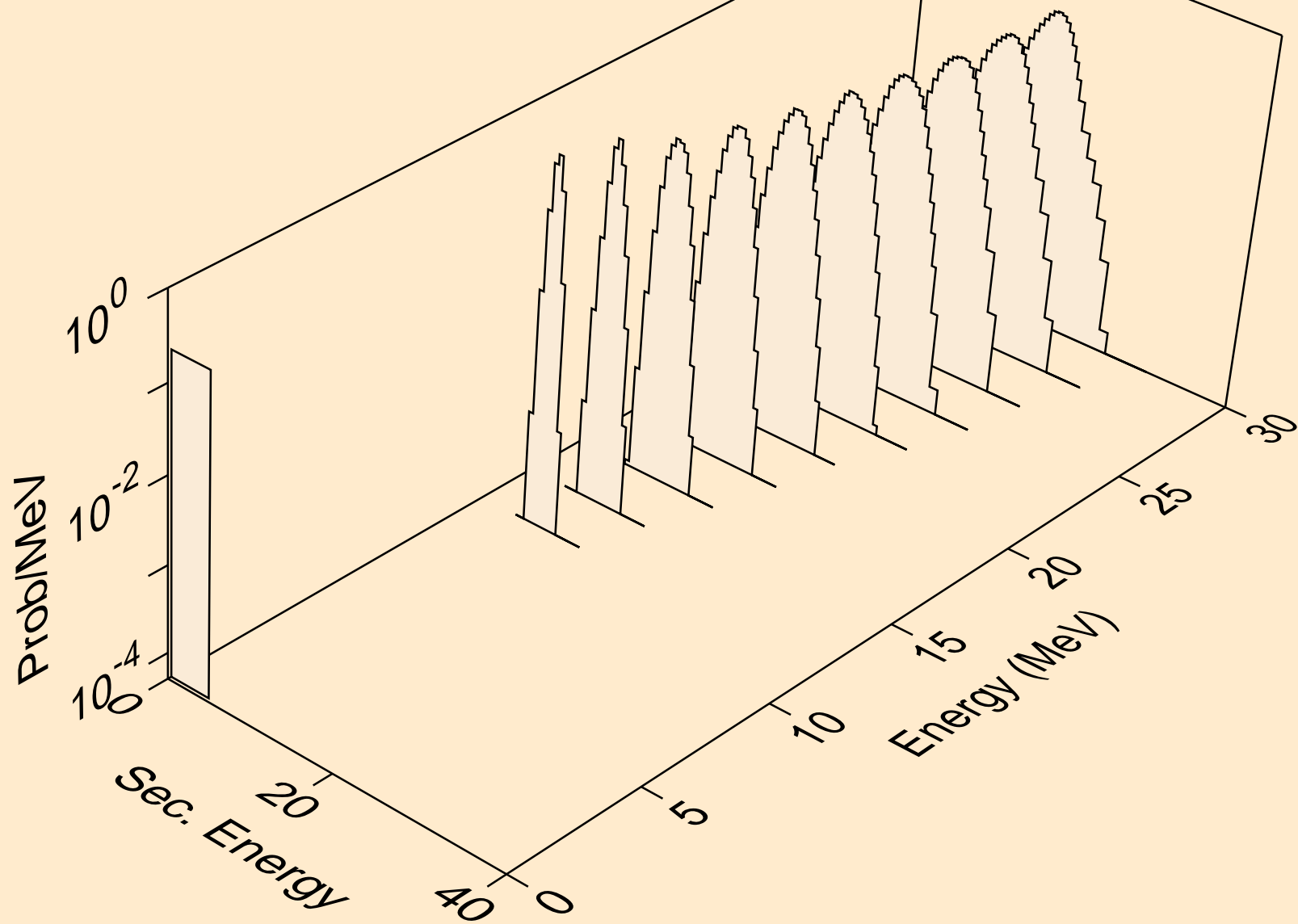
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alphas from (s,3n)a



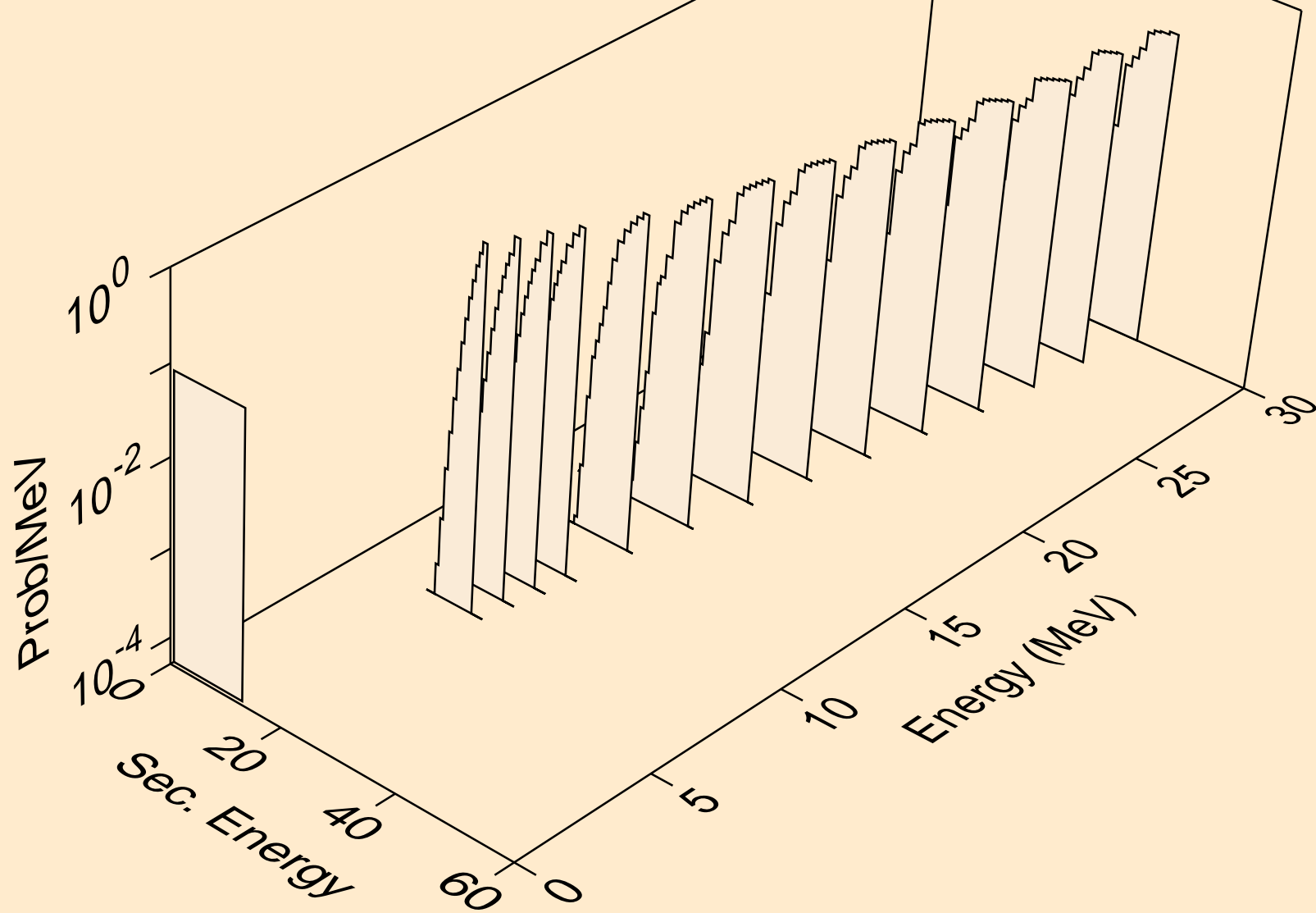
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HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,npa)

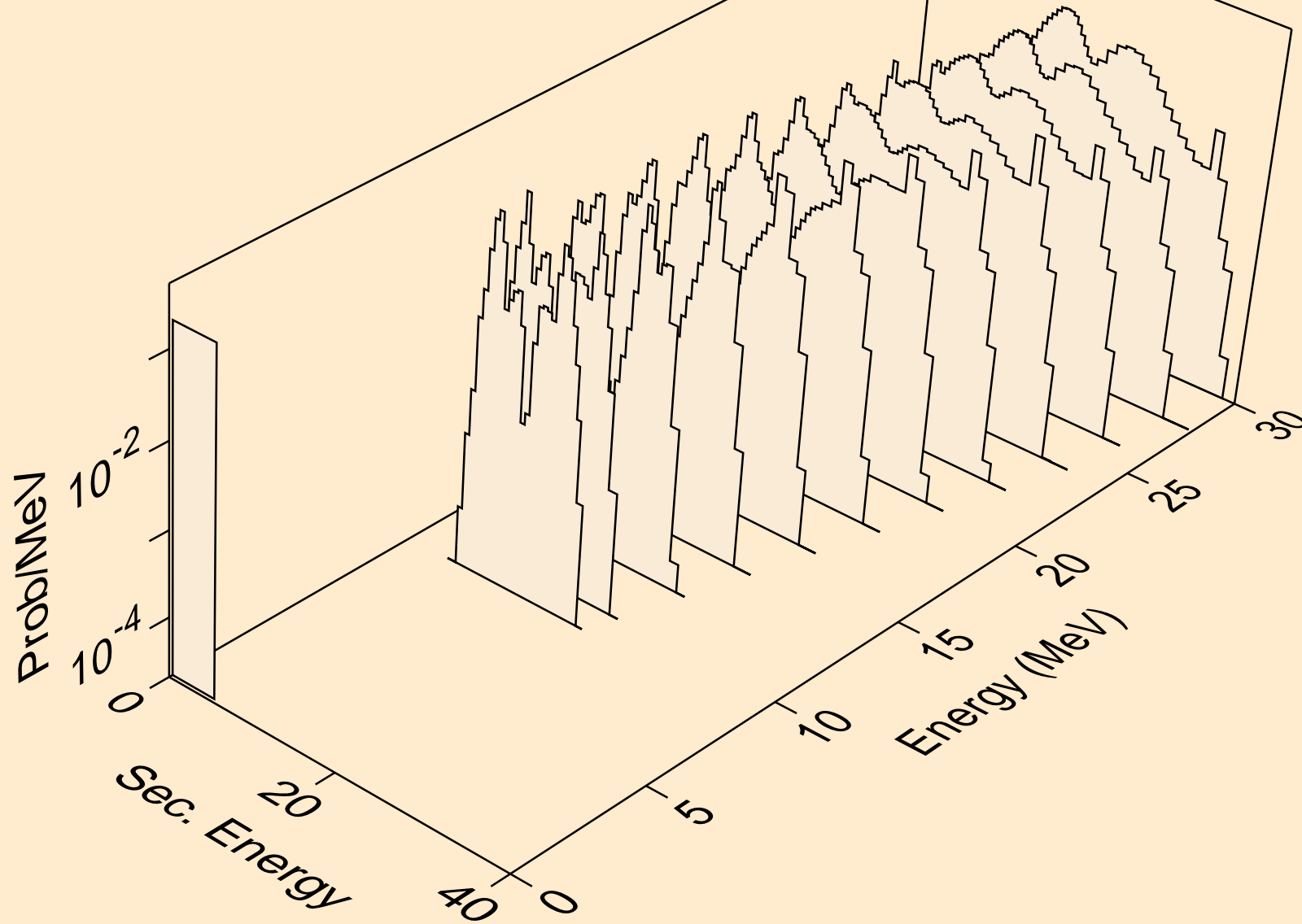


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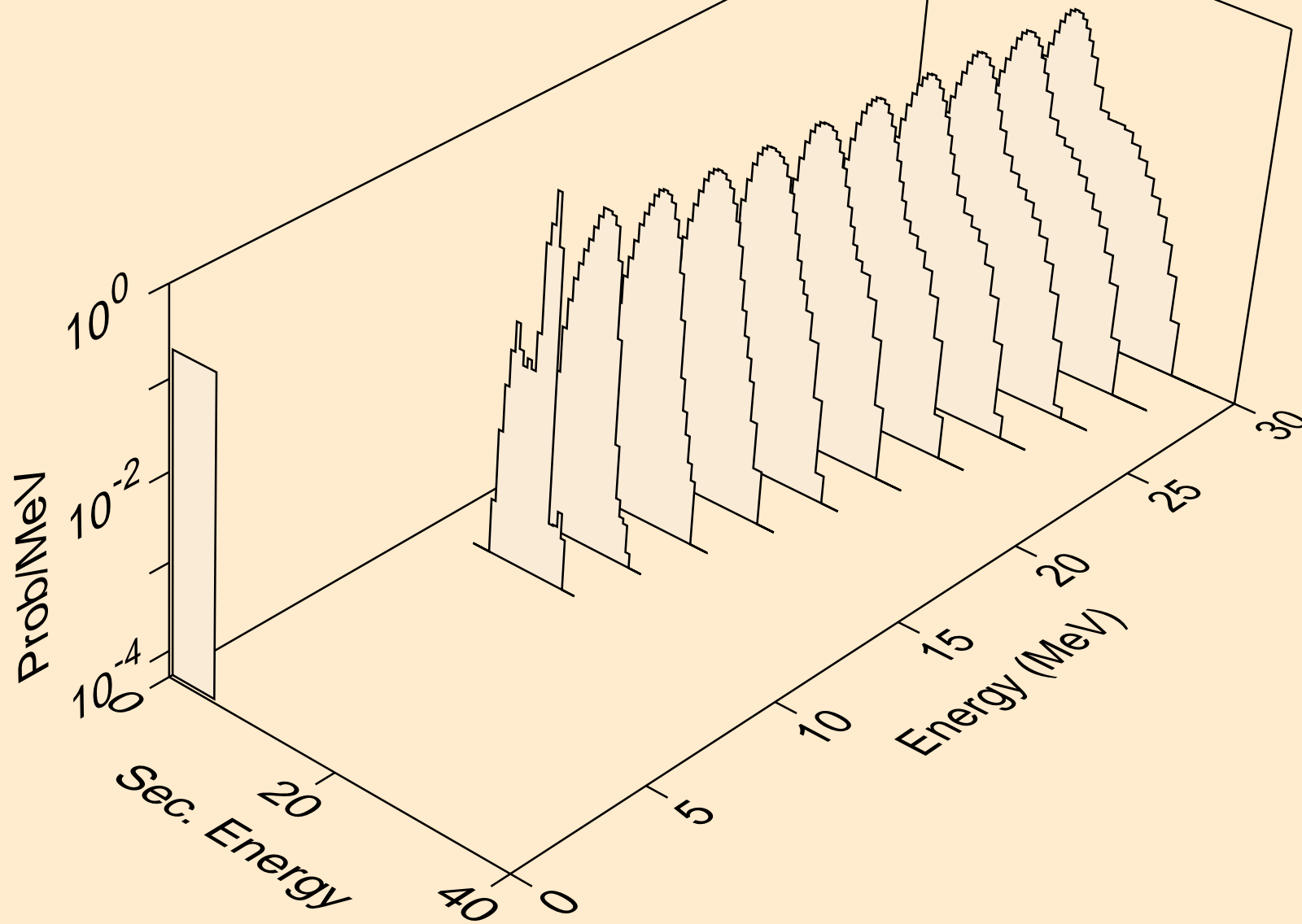




HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2a)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,pa)



HF179N HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,da)

