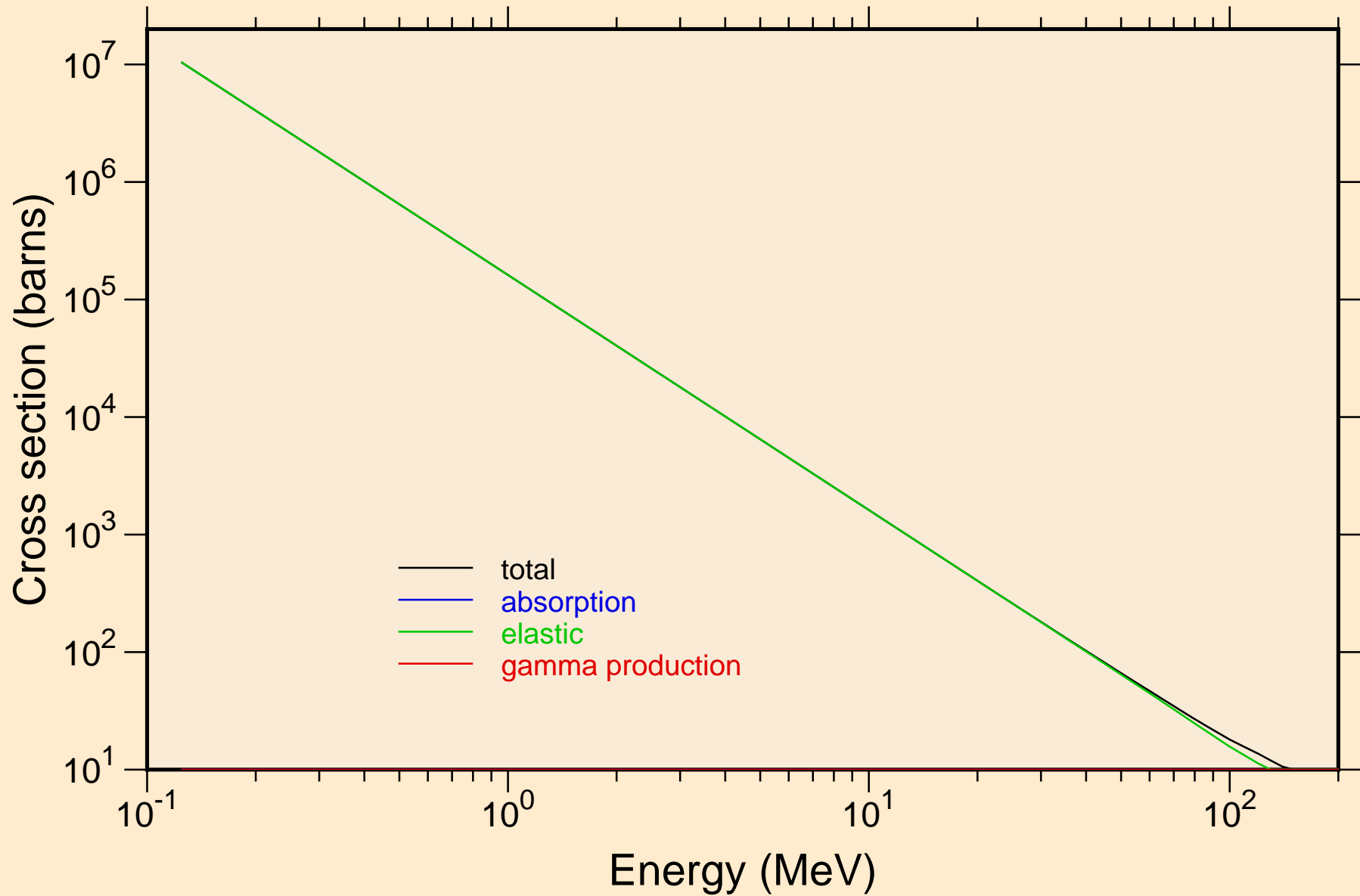
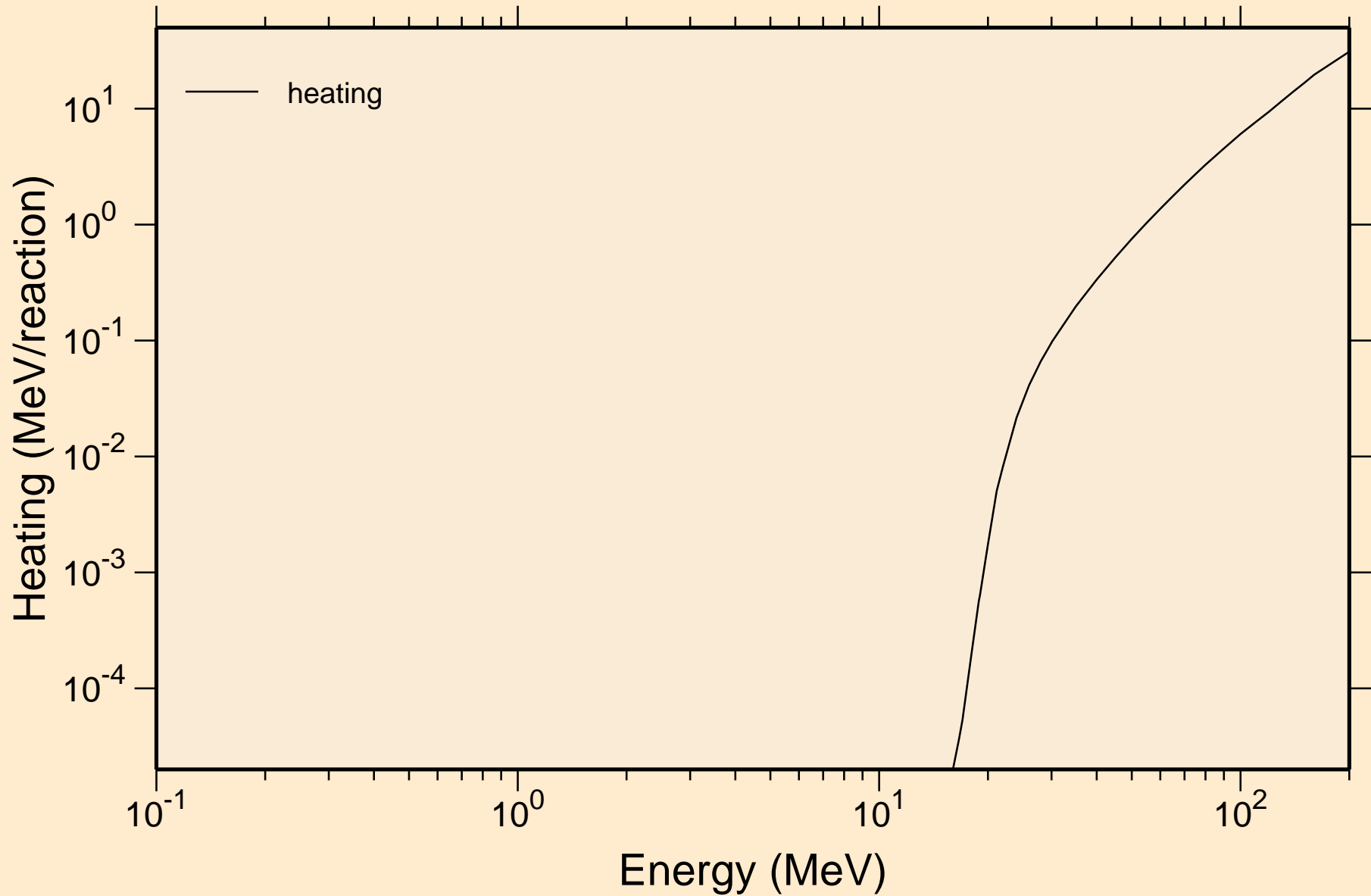


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections

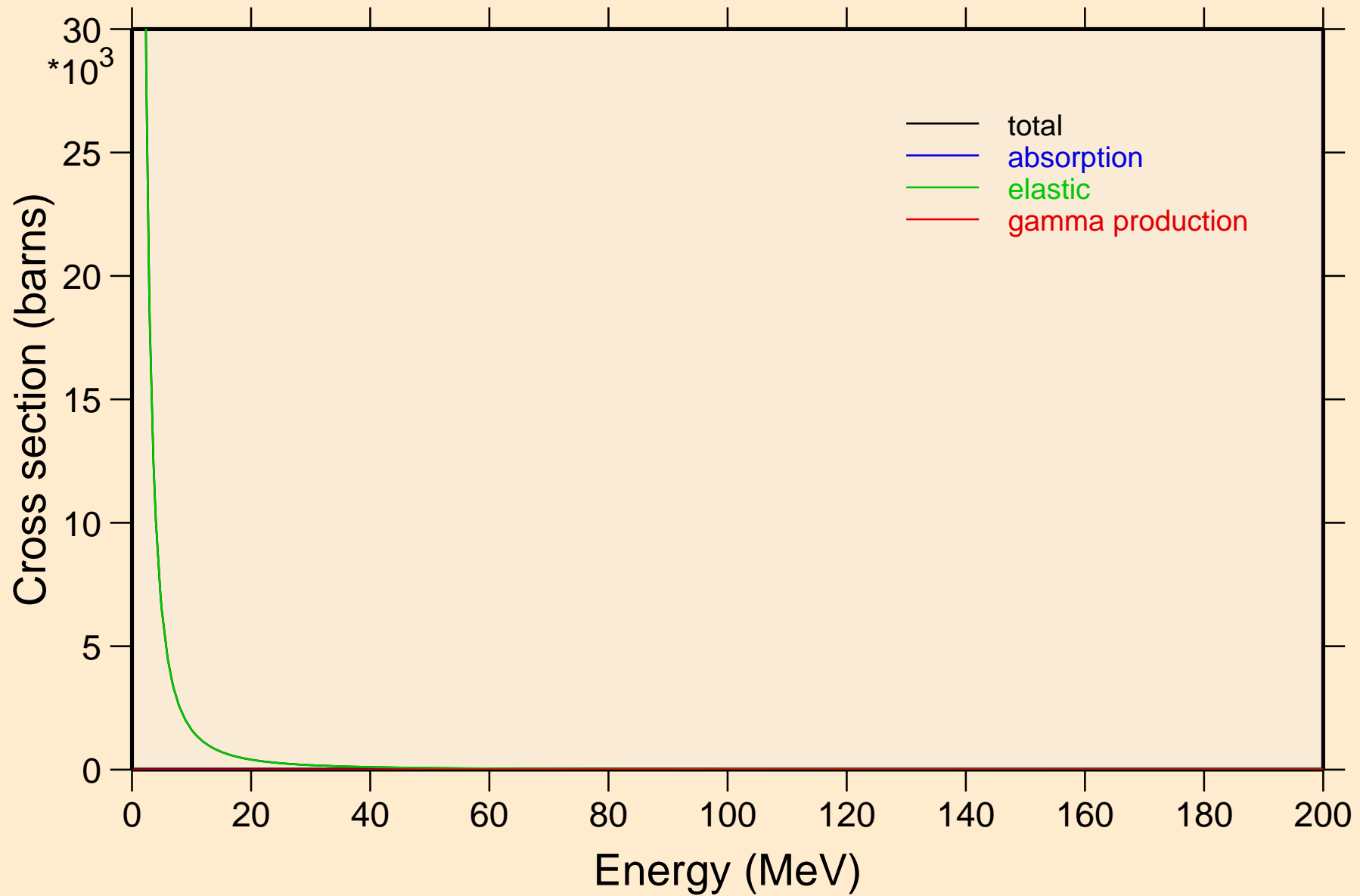


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Heating



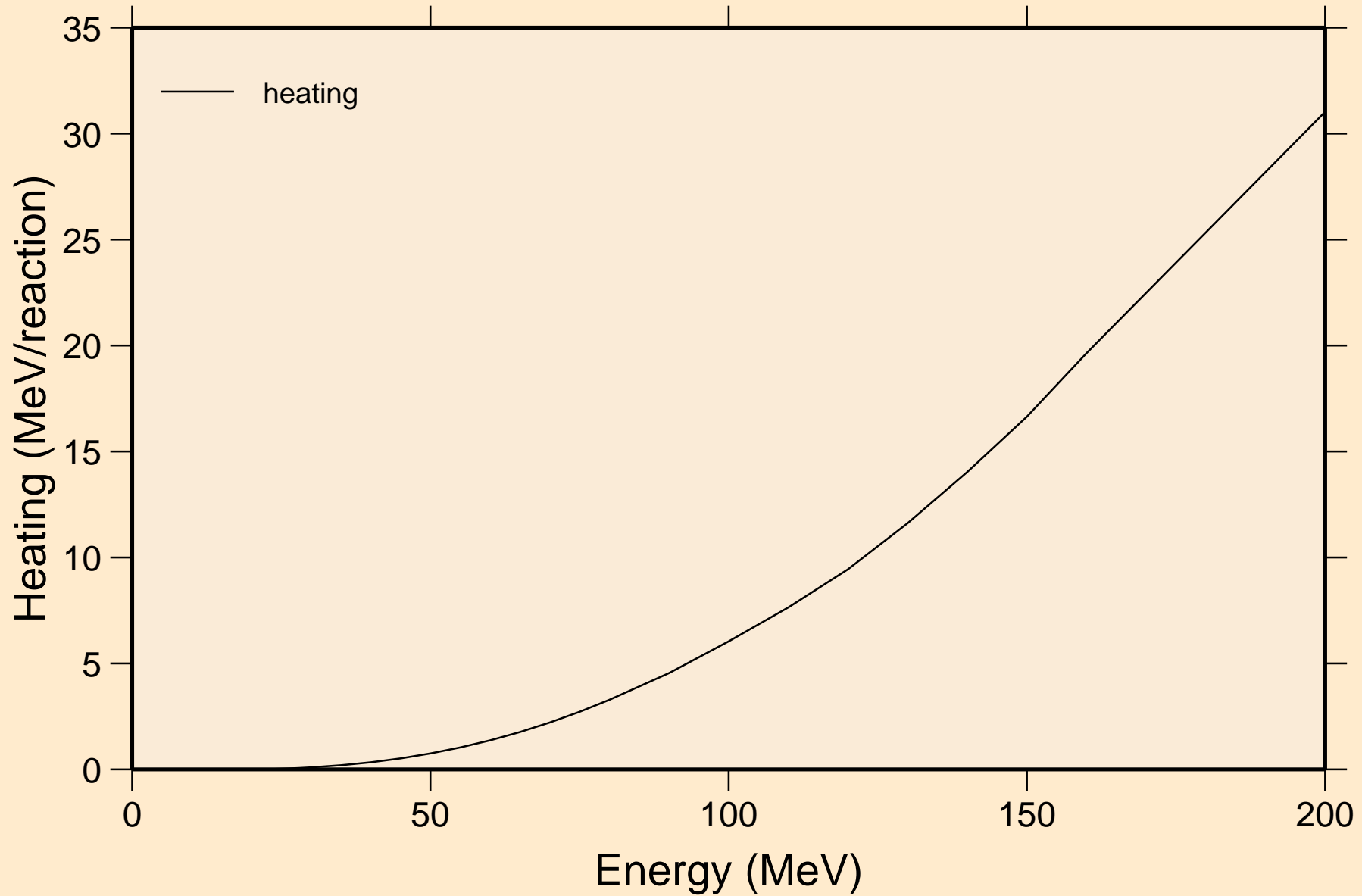
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## Principal cross sections



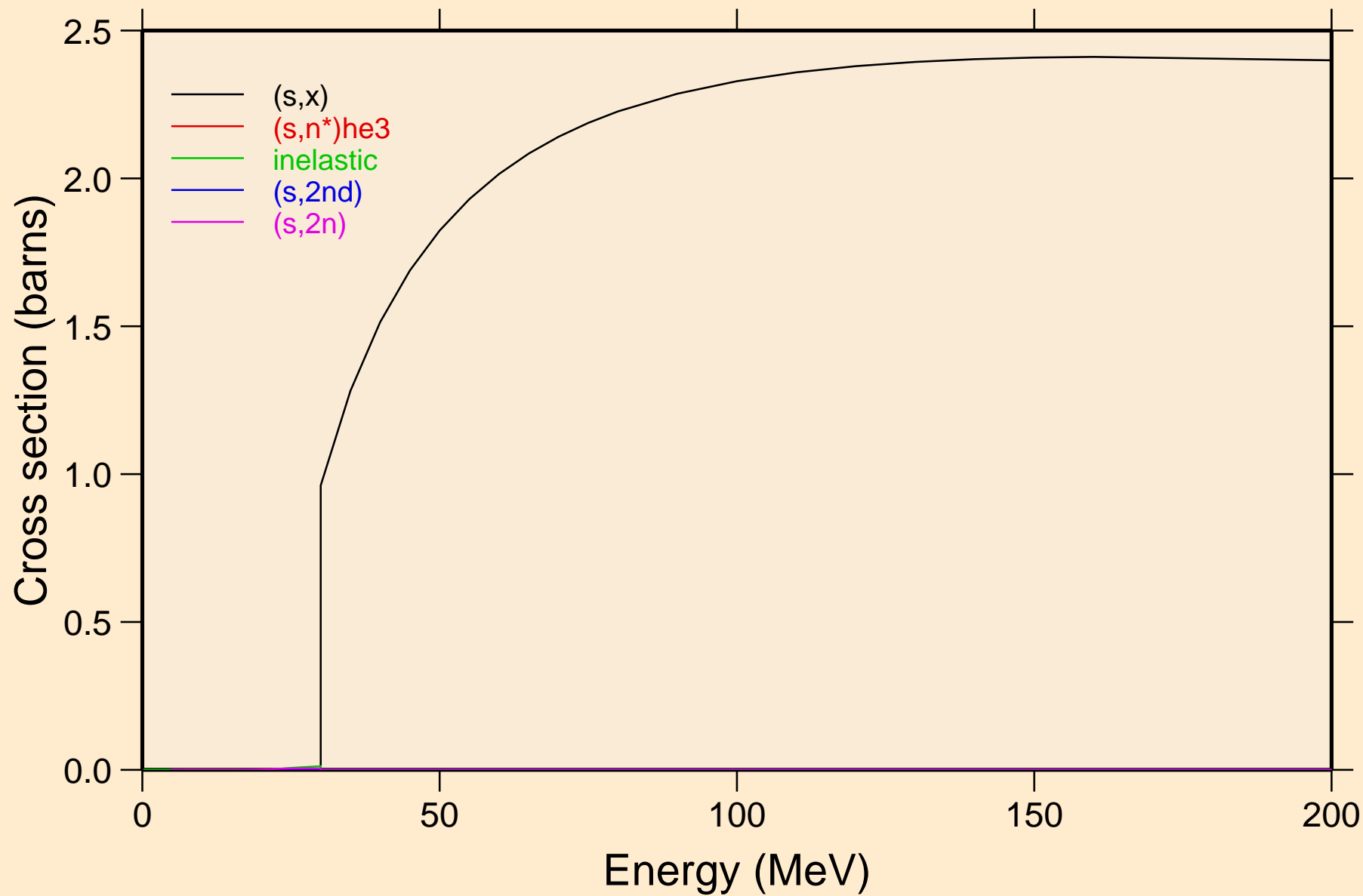
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Heating

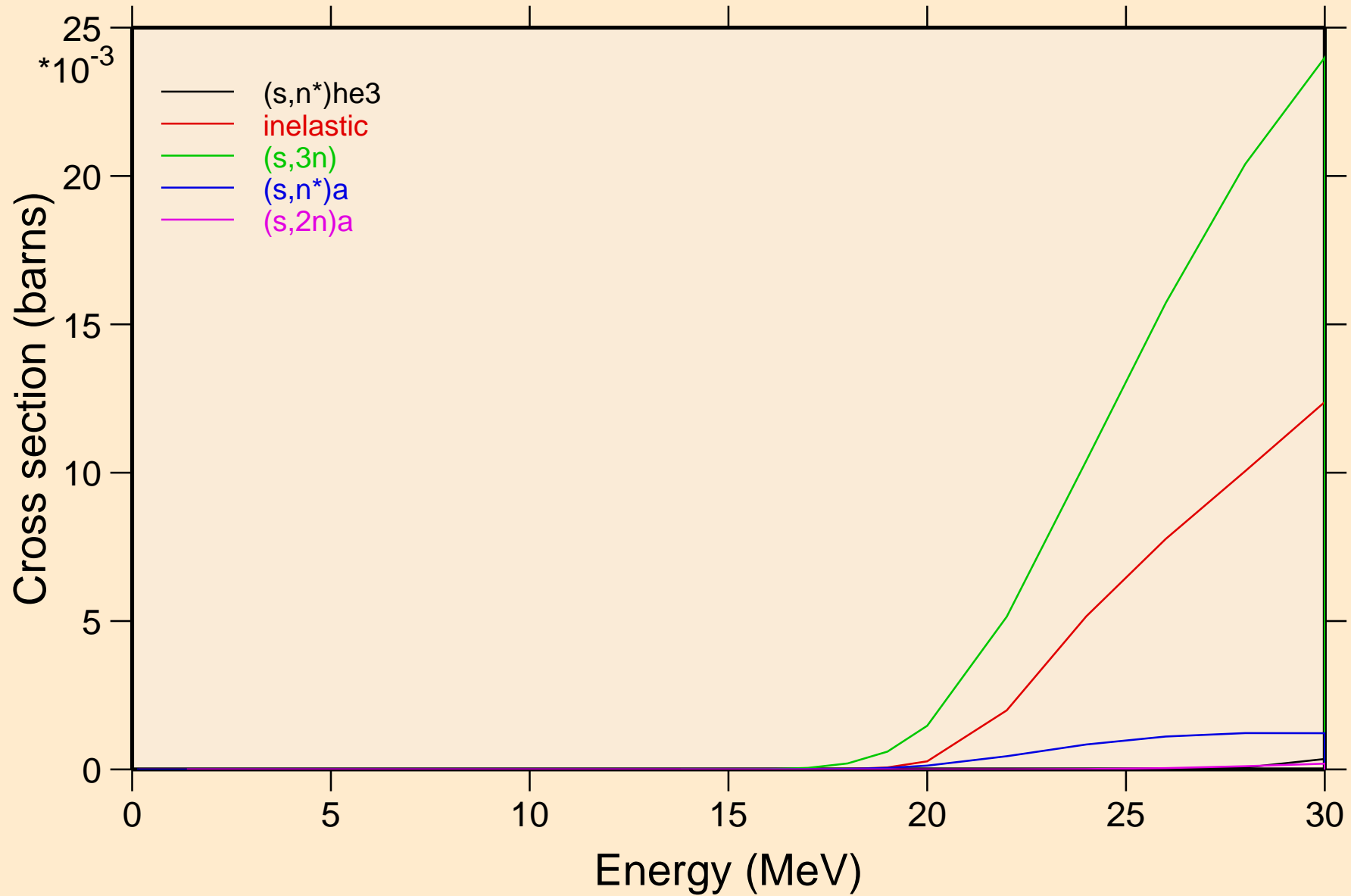


# HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Threshold reactions

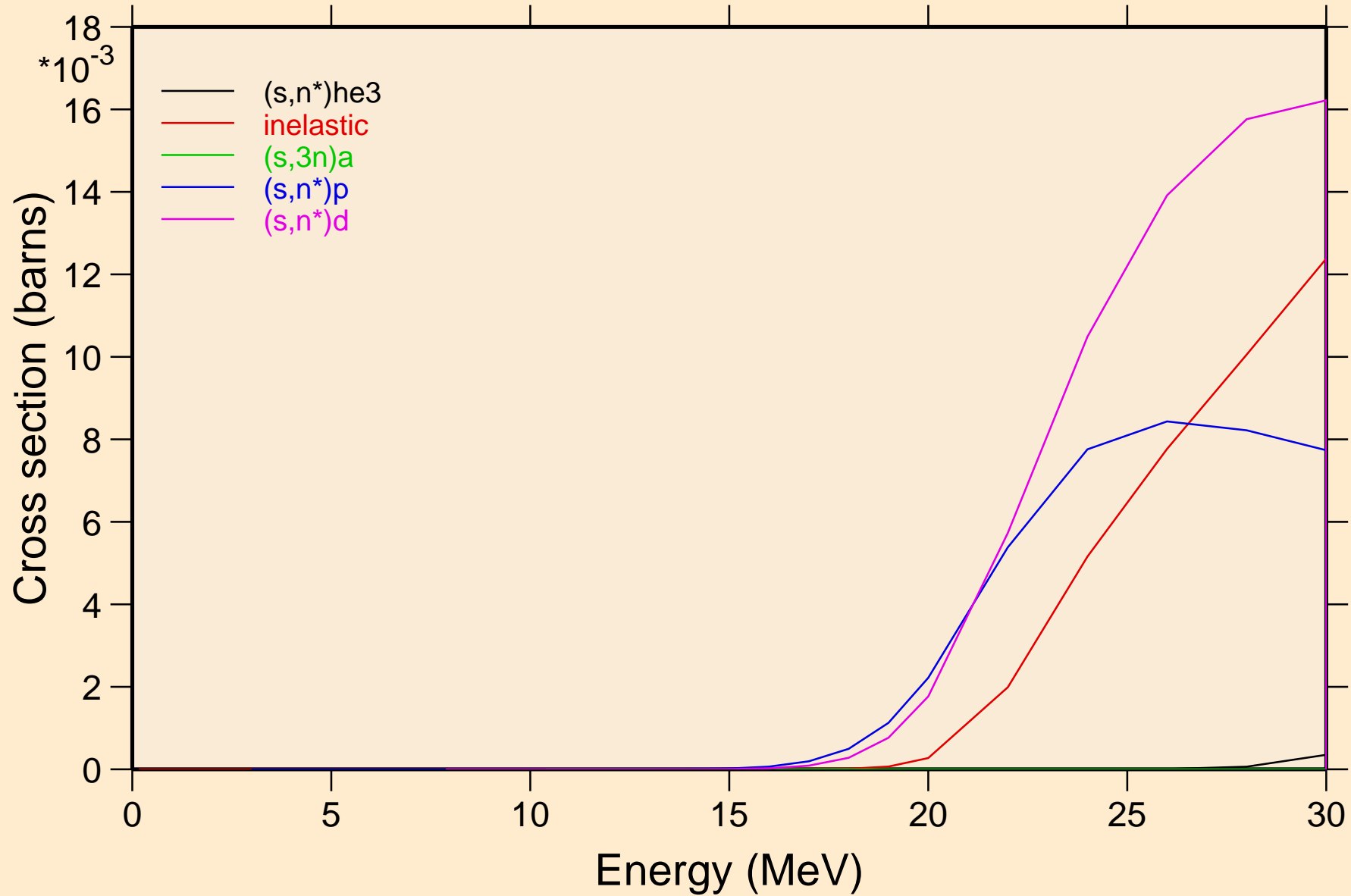


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



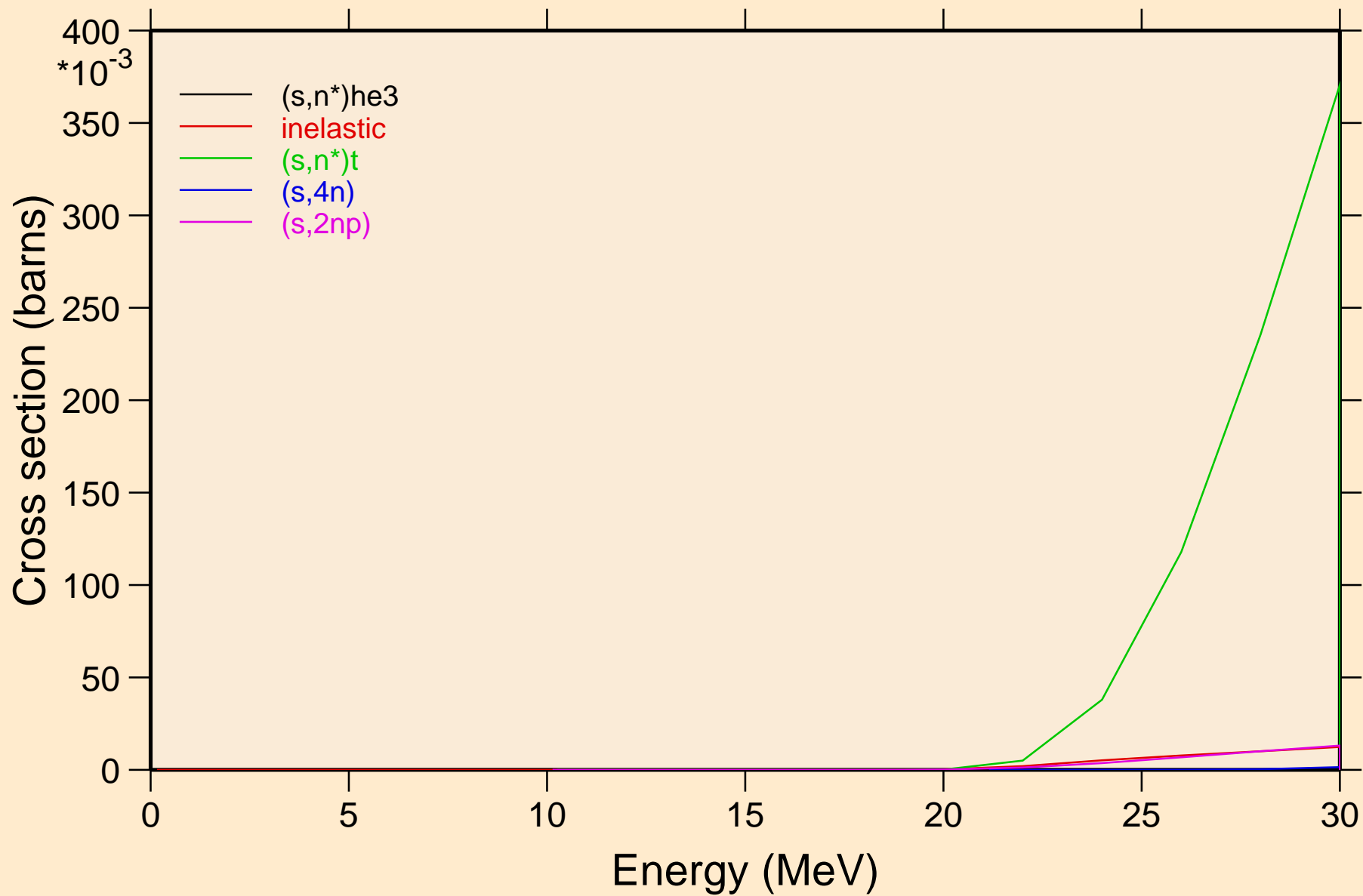
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## Threshold reactions



# HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K

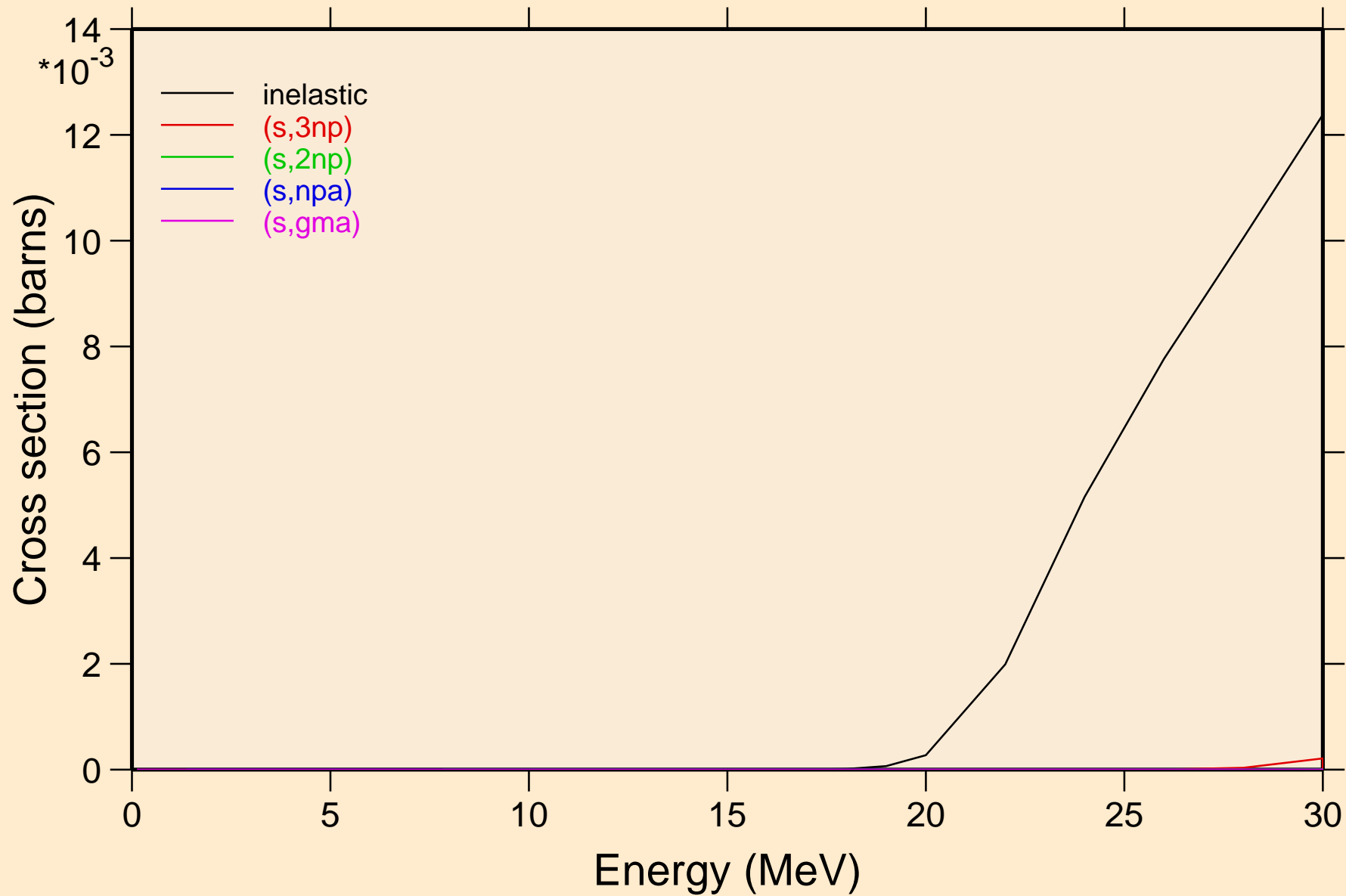
## Threshold reactions





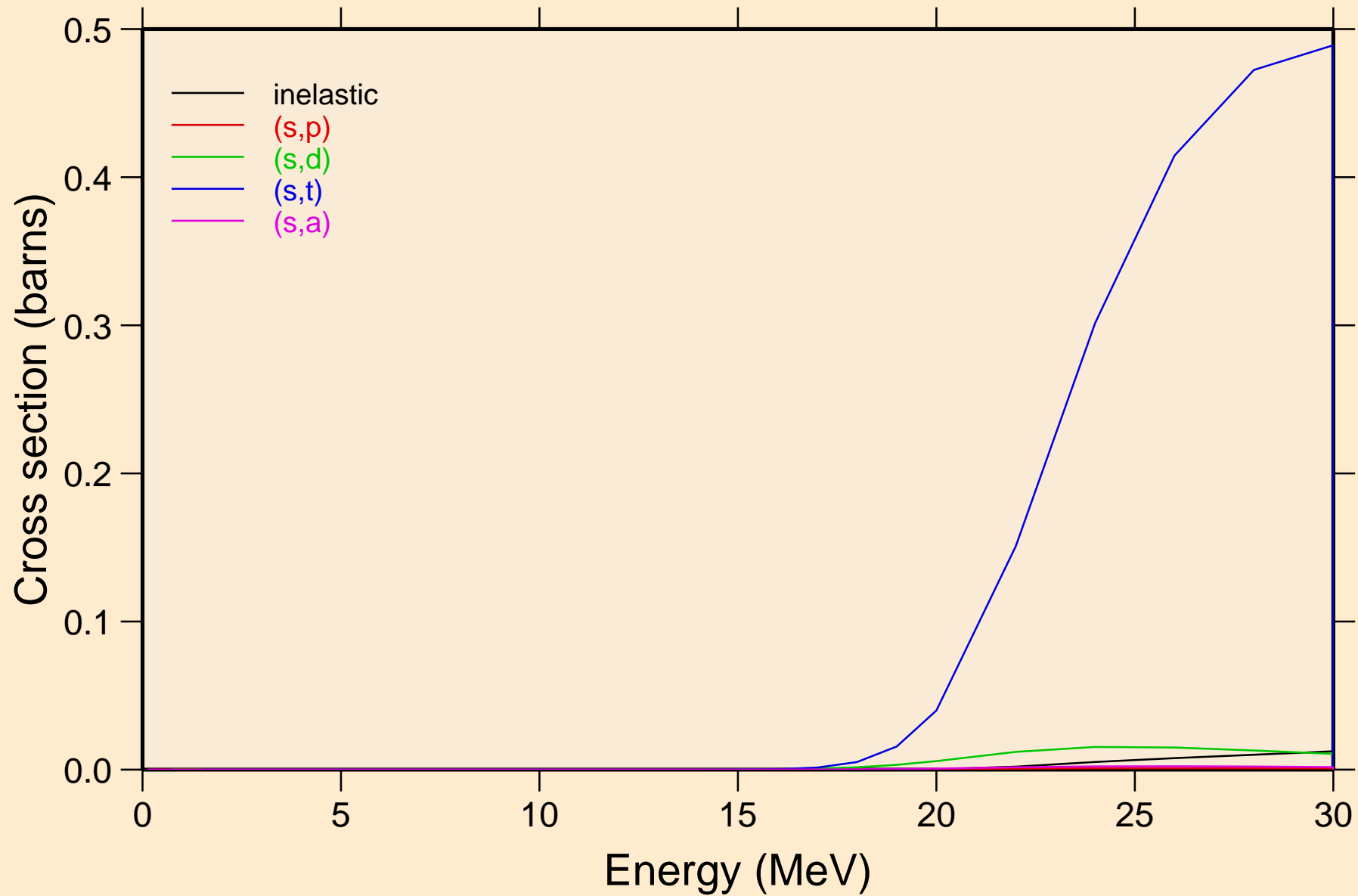
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## Threshold reactions

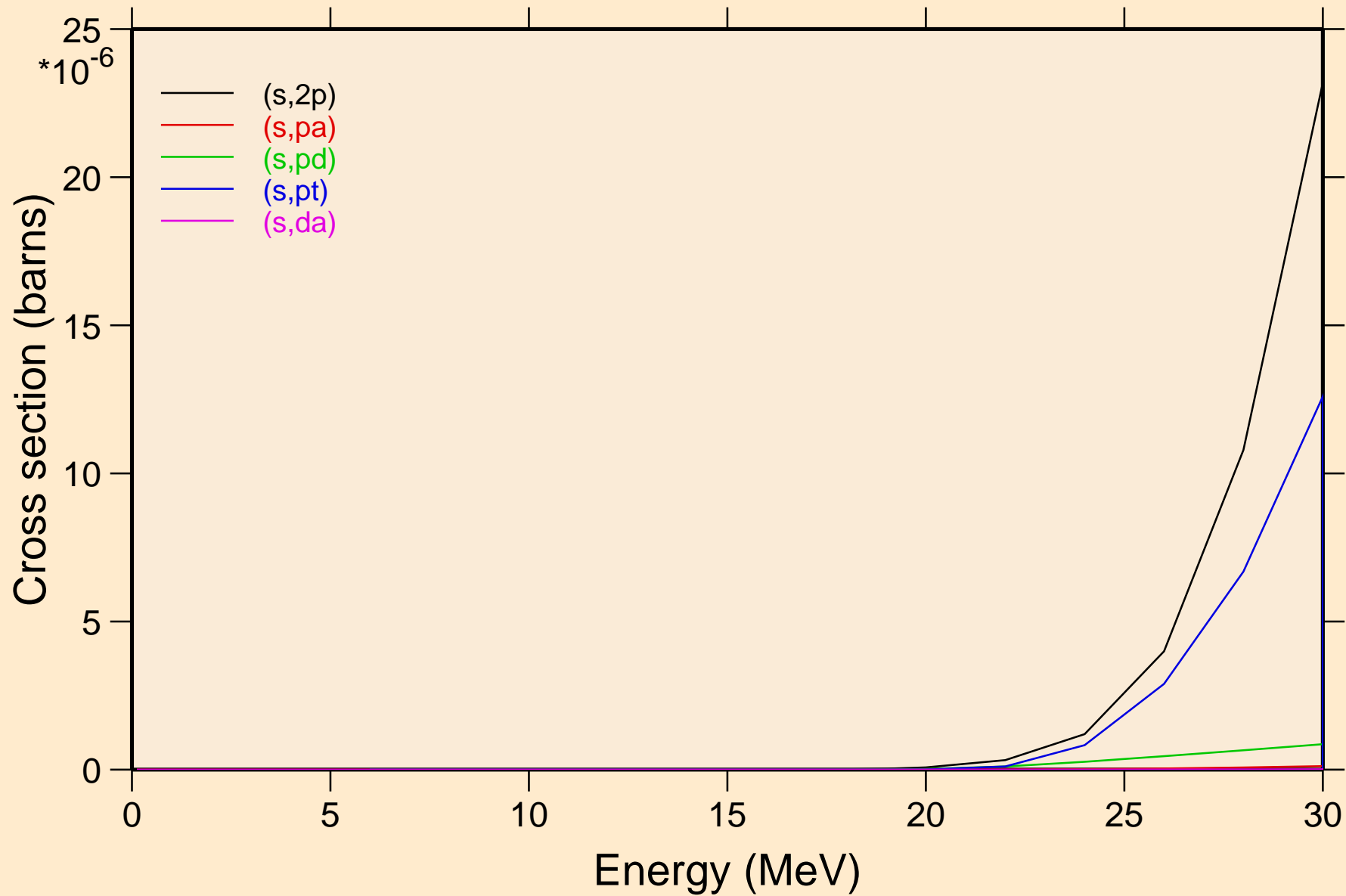


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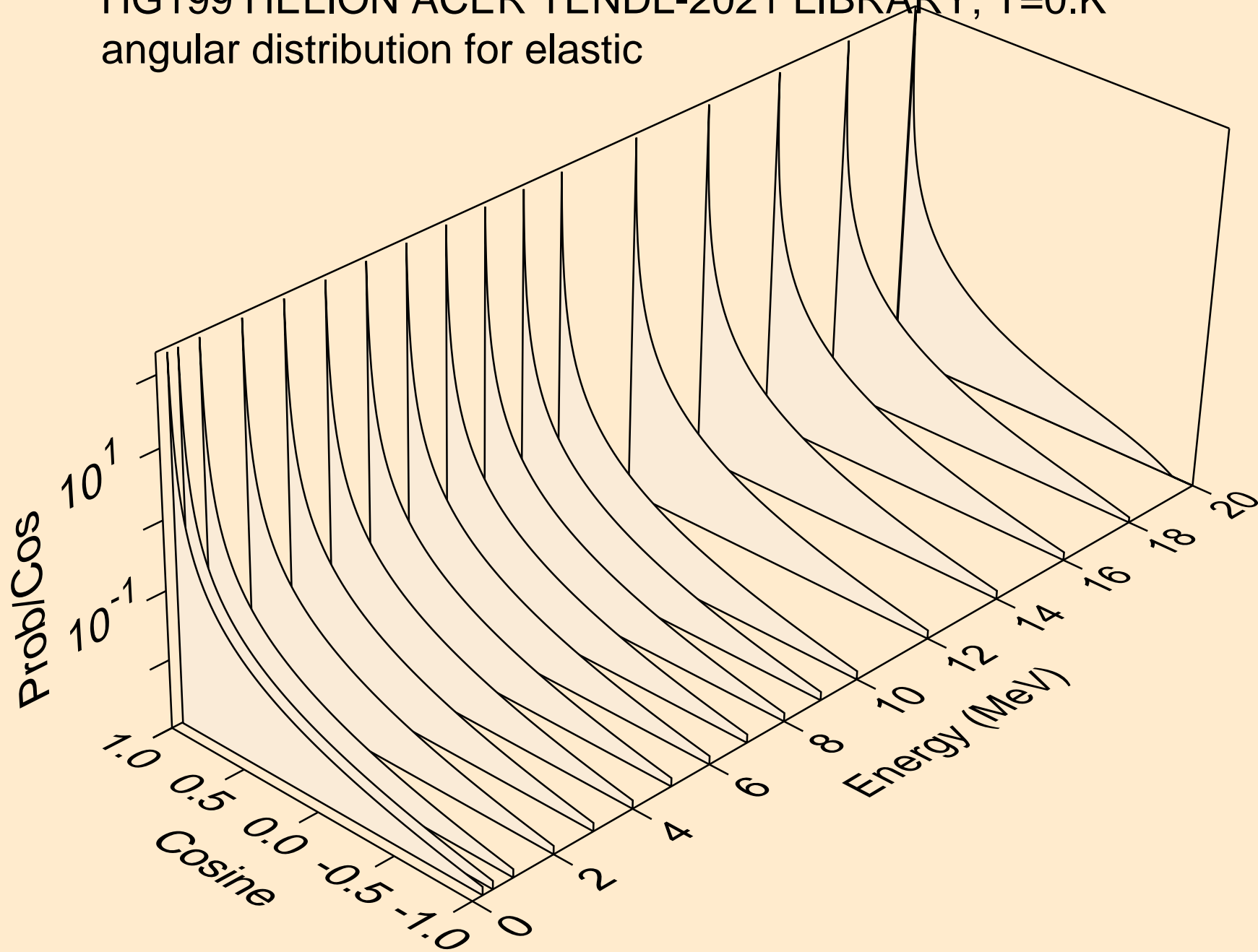
## Threshold reactions



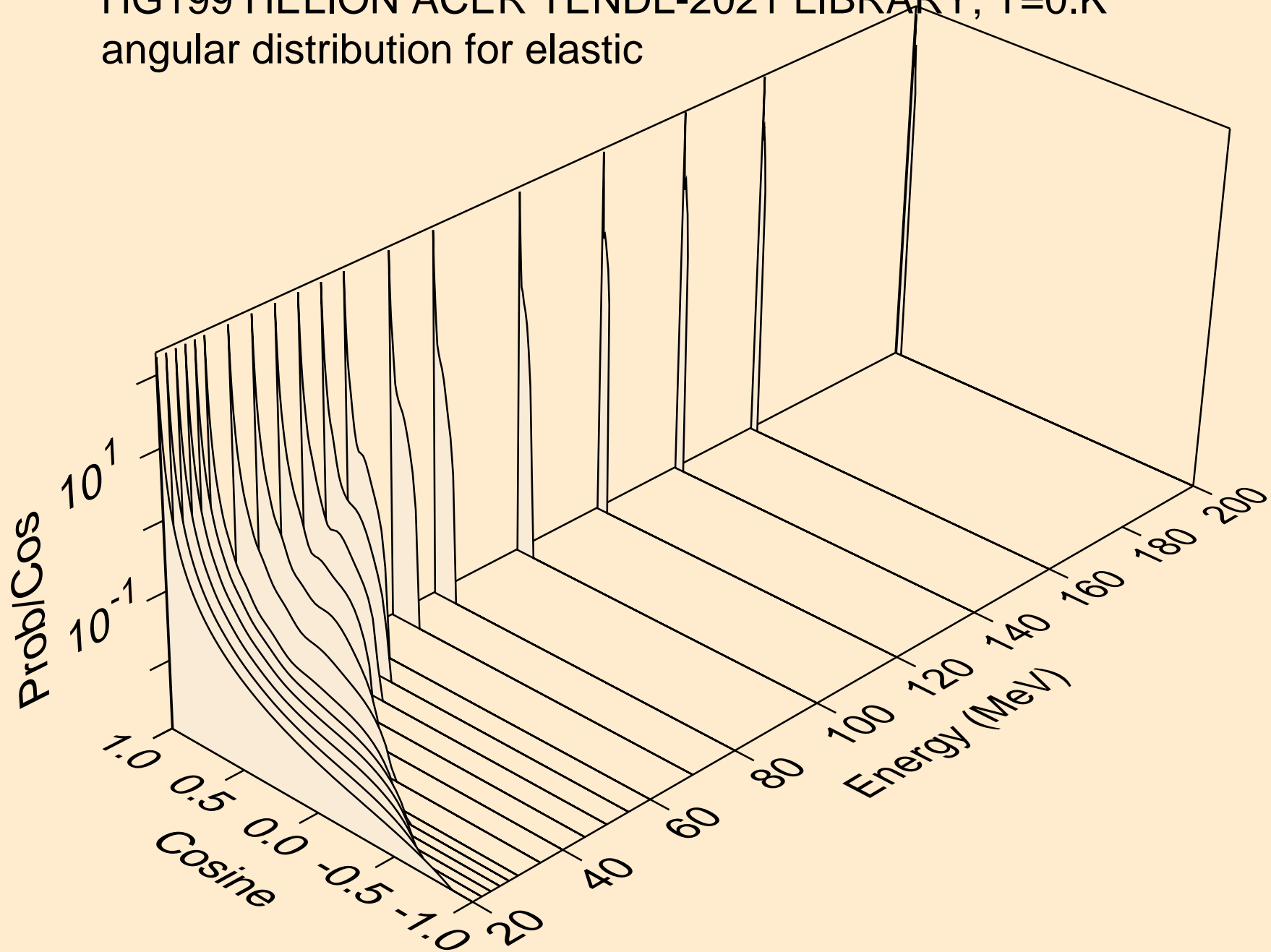
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Threshold reactions



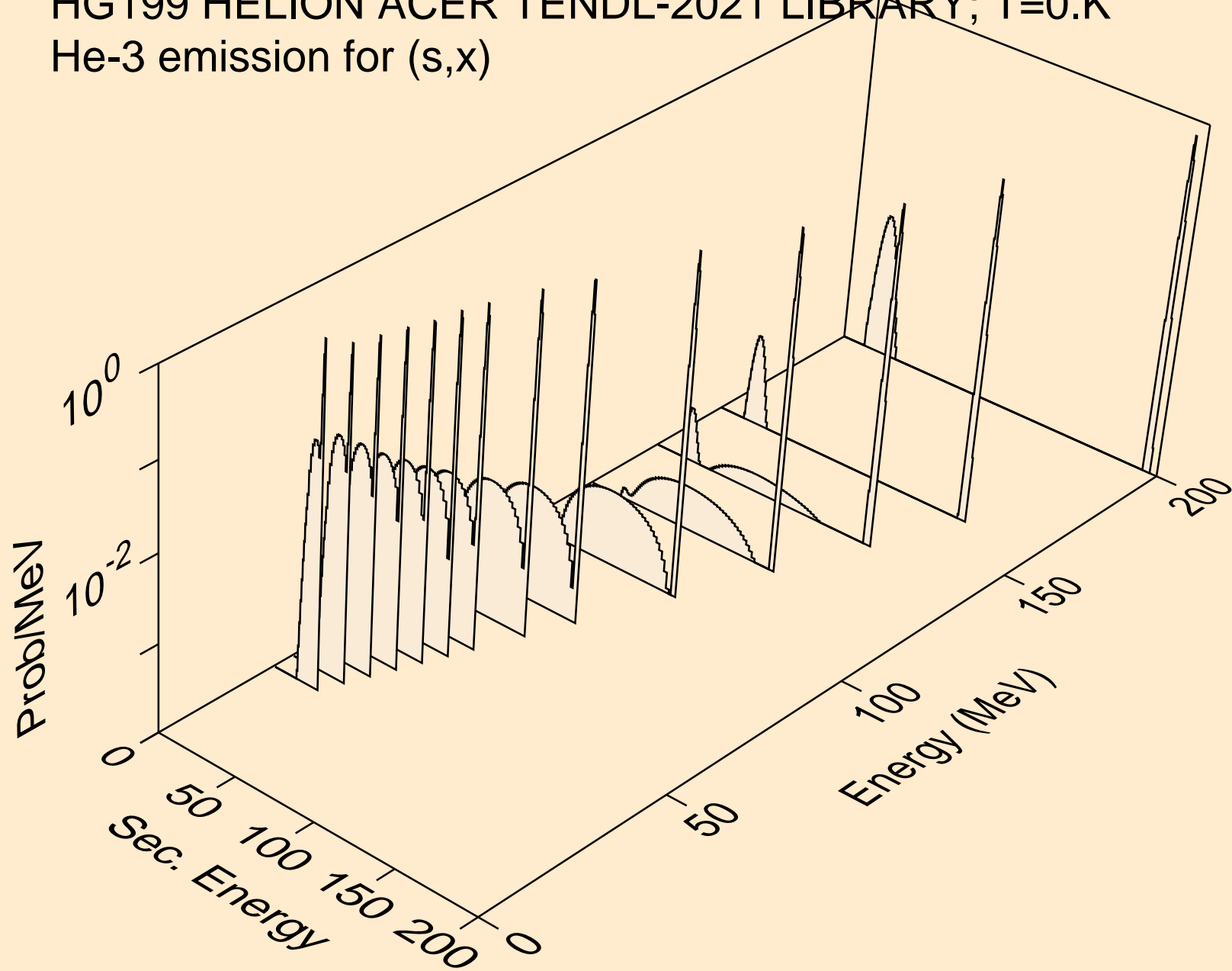
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



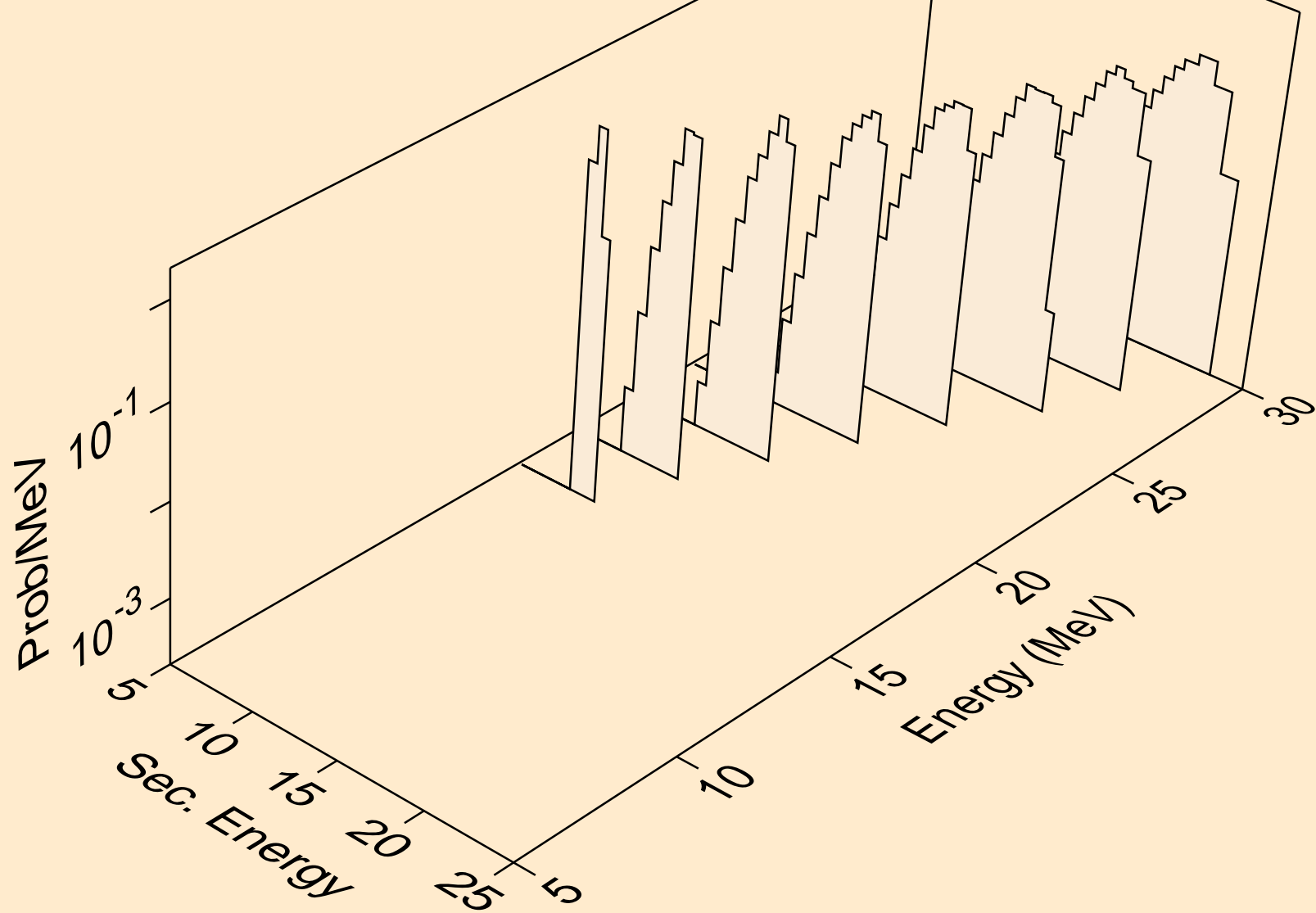
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angular distribution for elastic



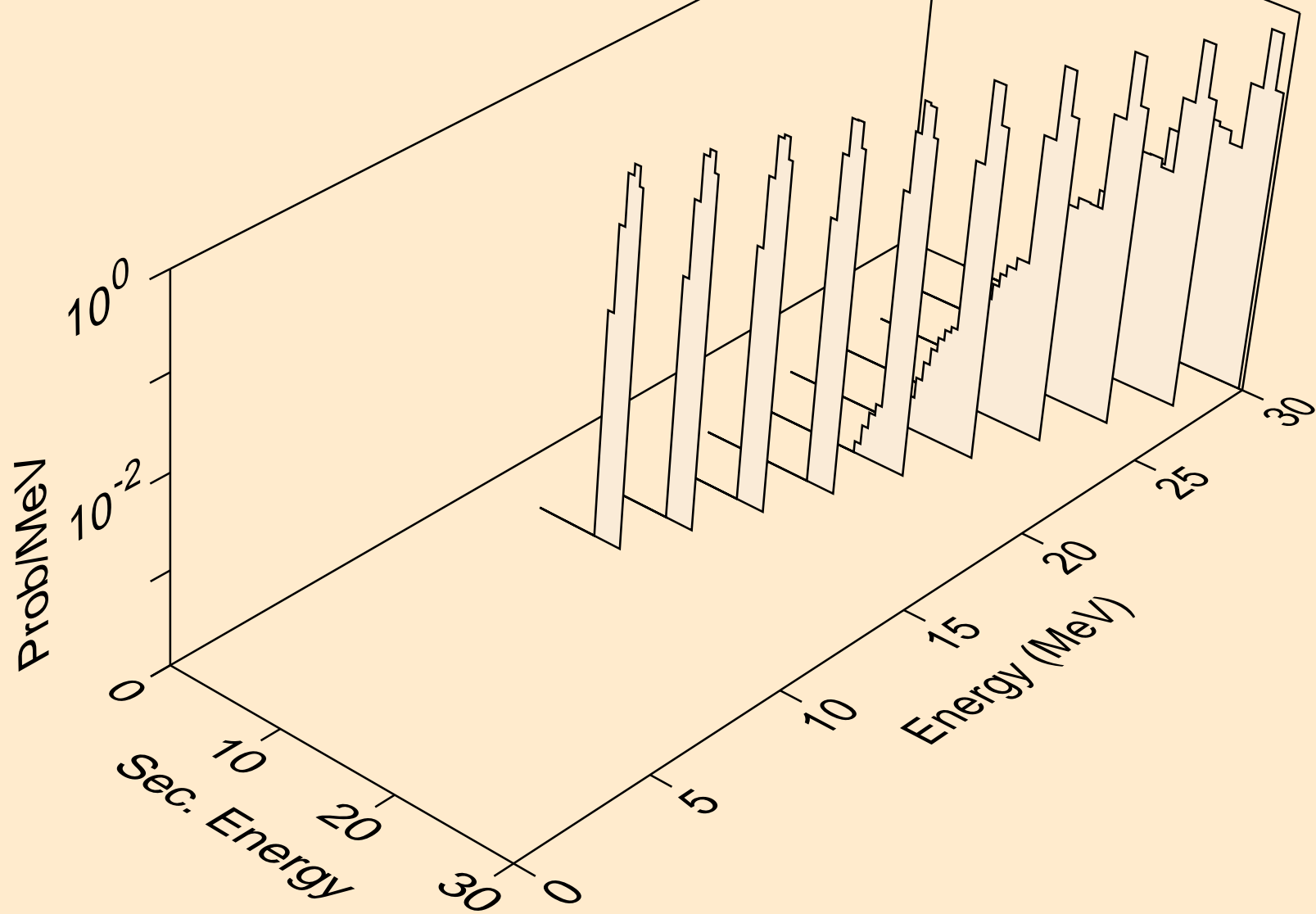
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,x)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

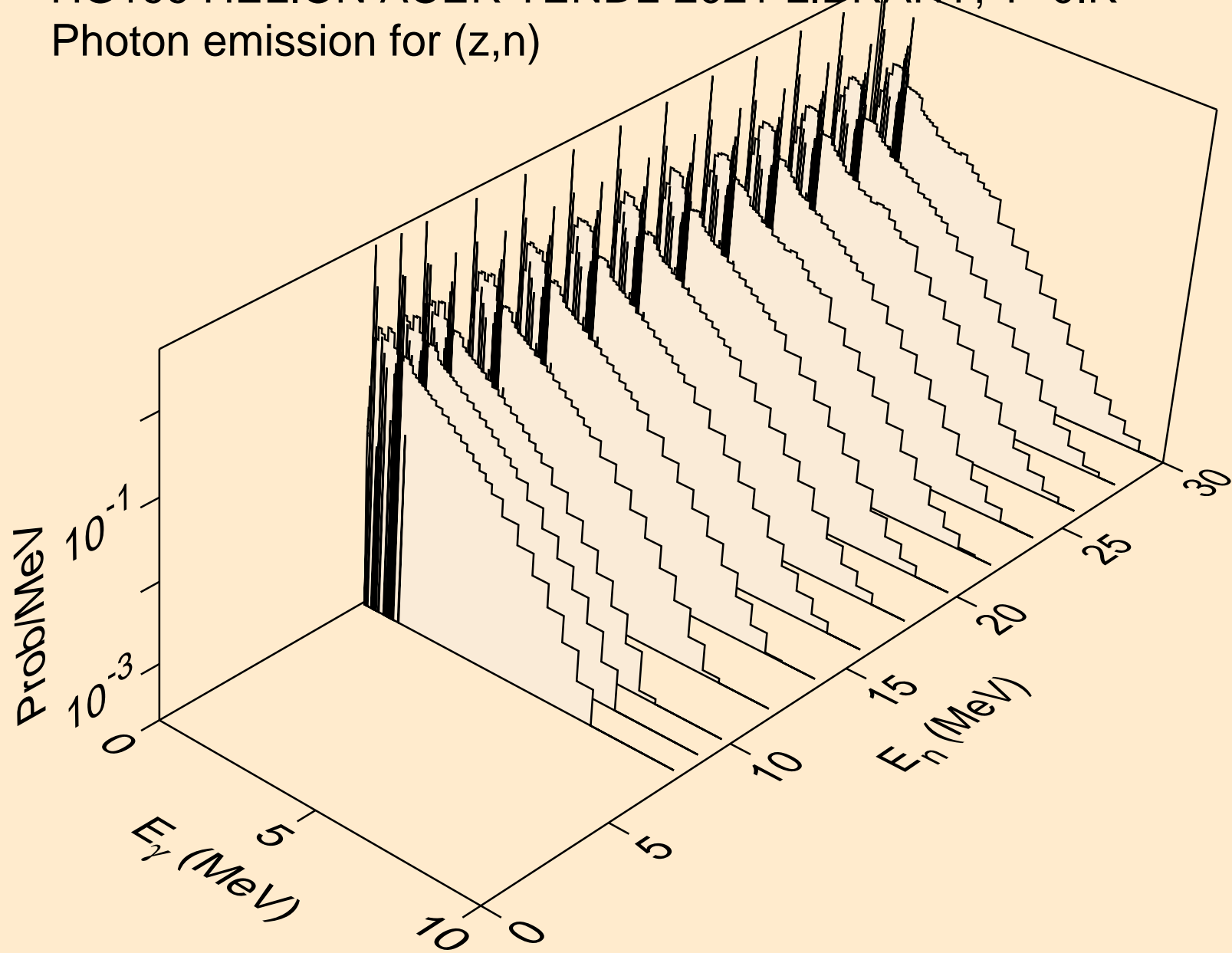


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for inelastic

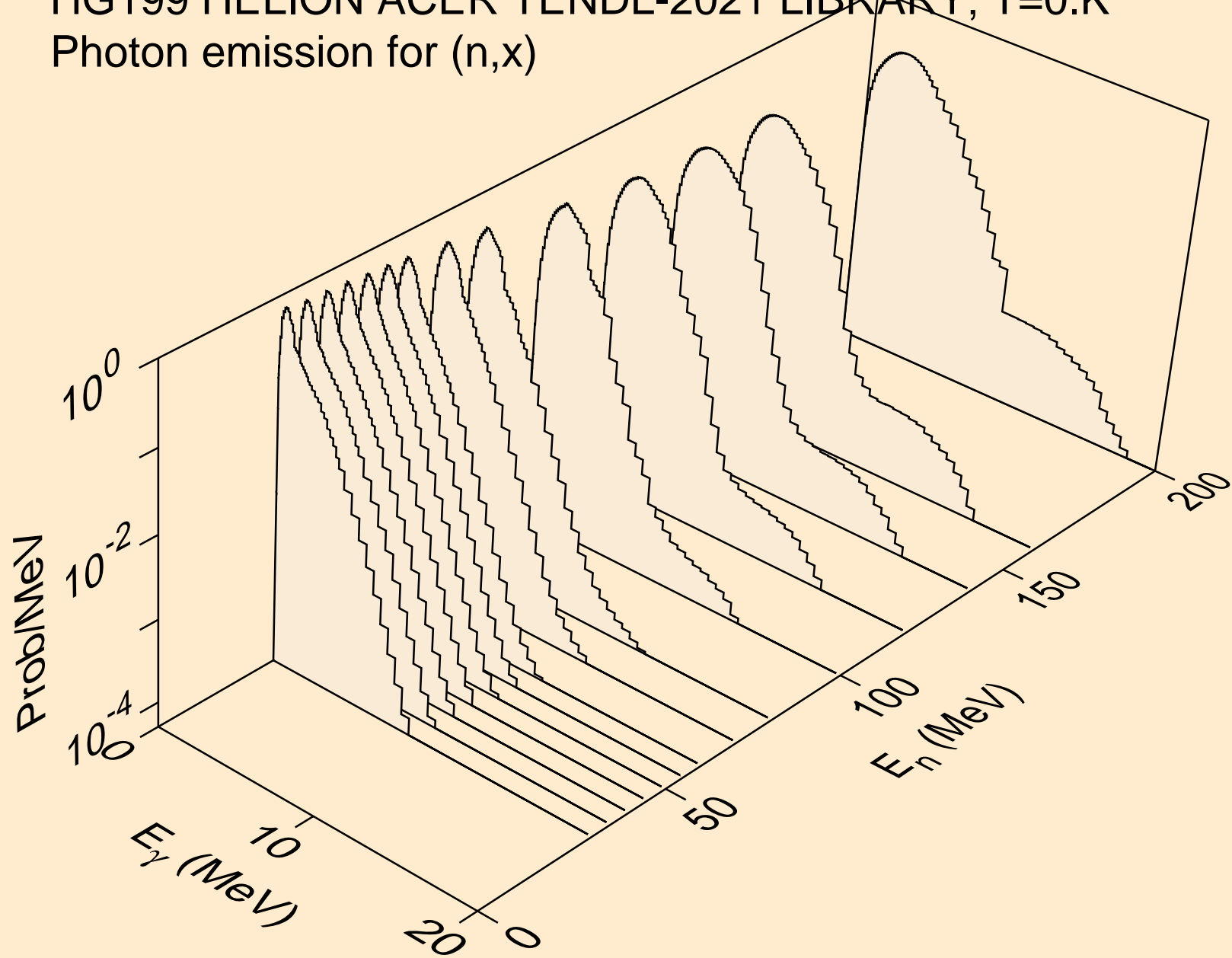




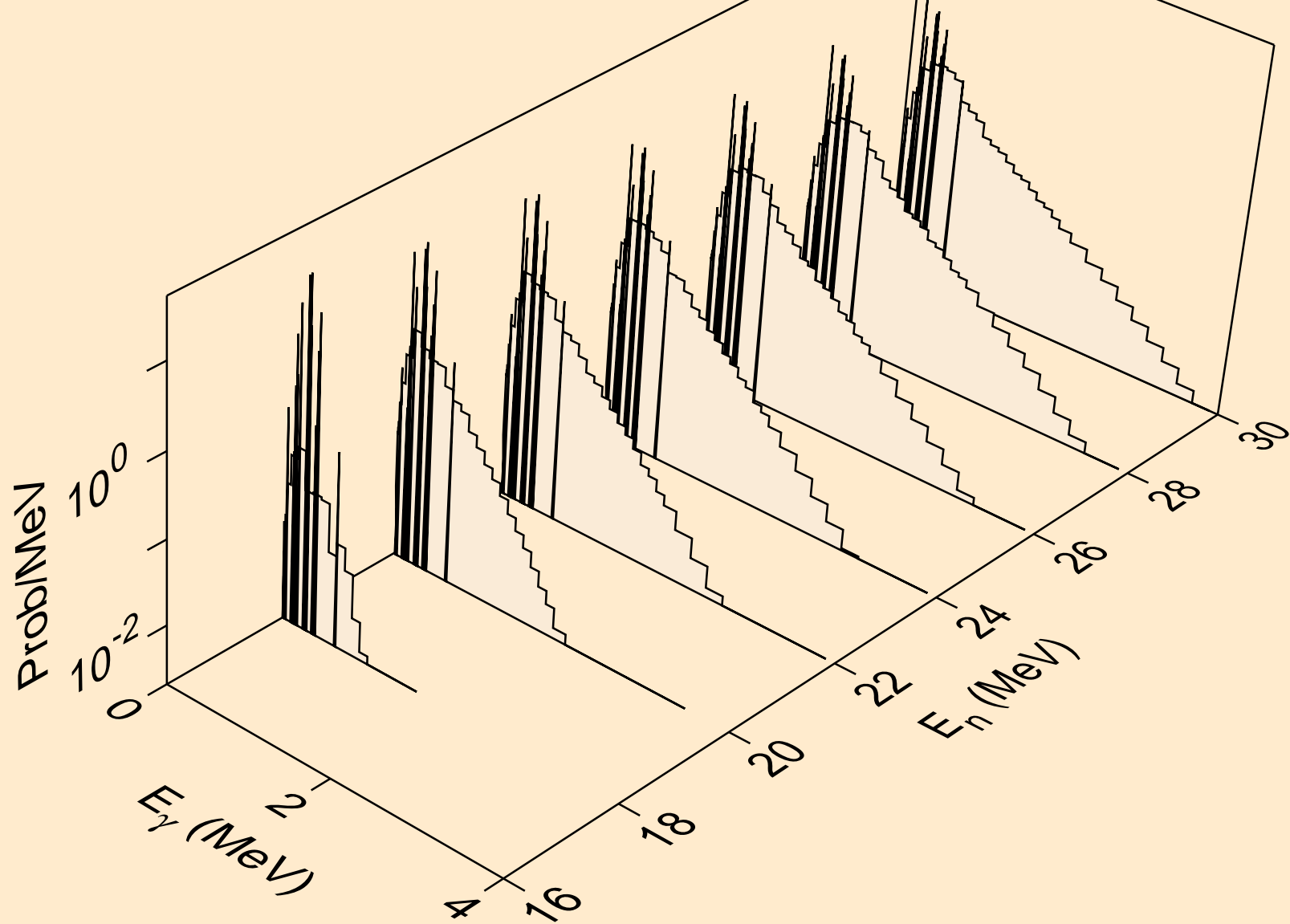
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Photon emission for (z,n)



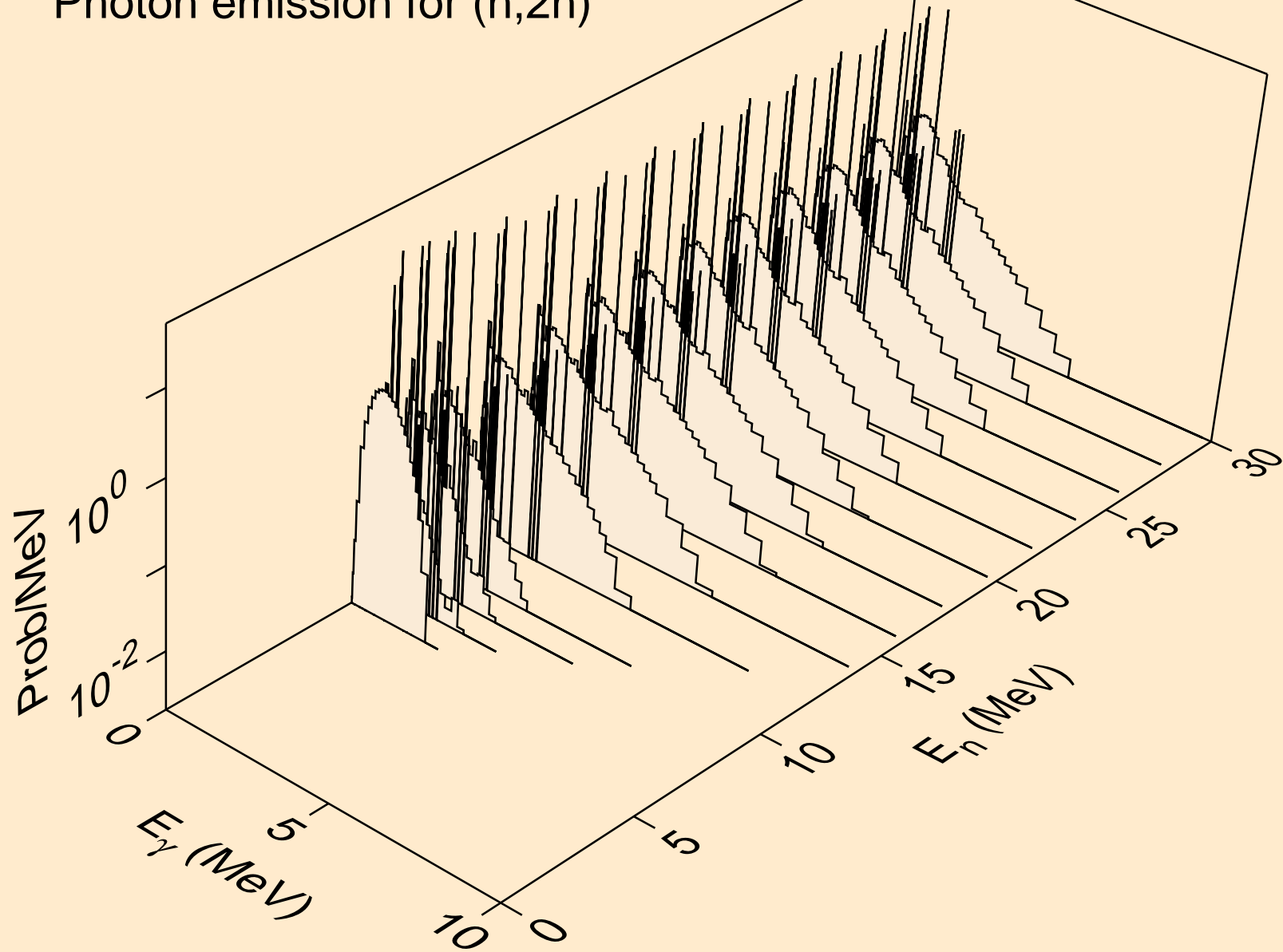
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Photon emission for (n,x)



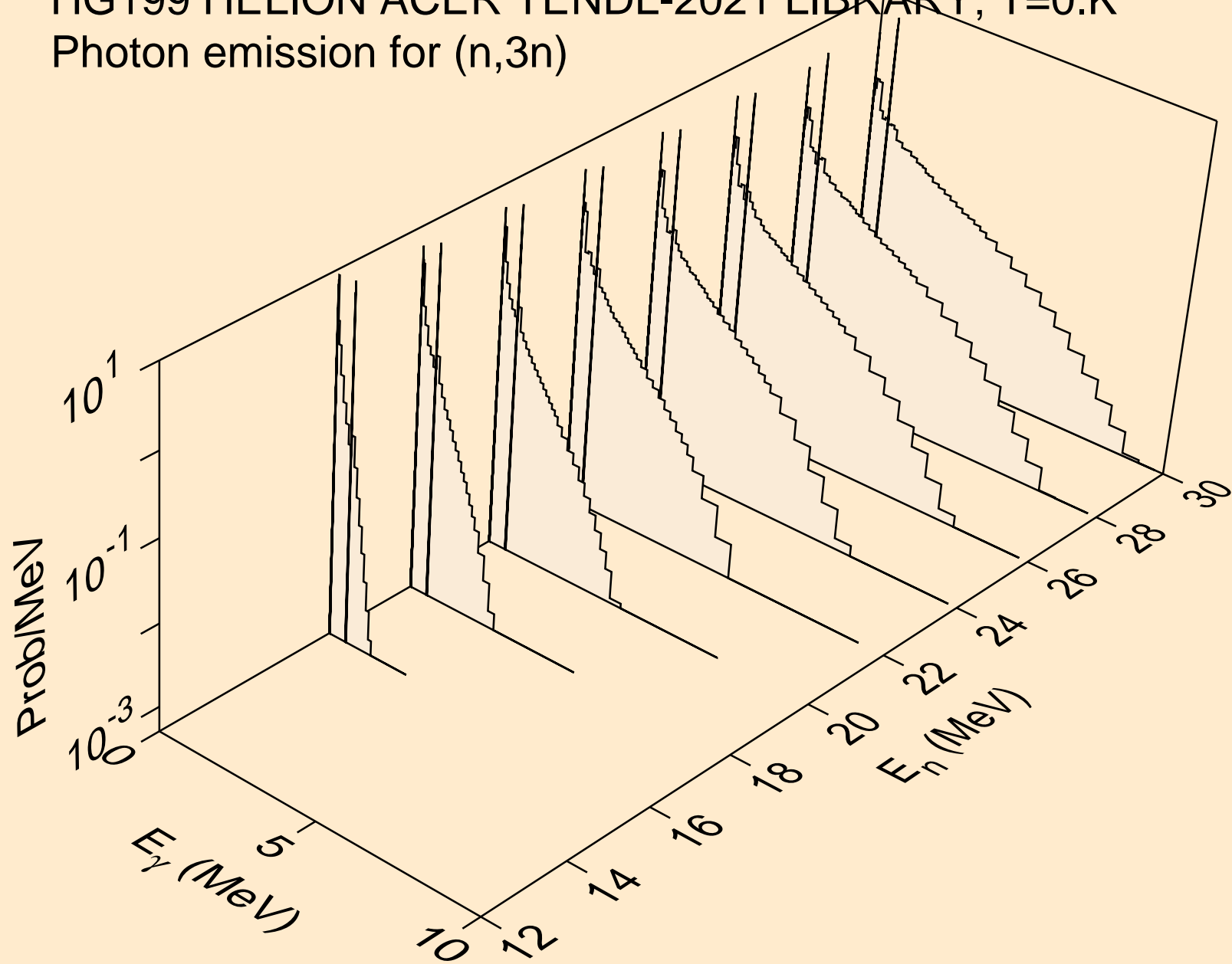
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Photon emission for (n,2nd)



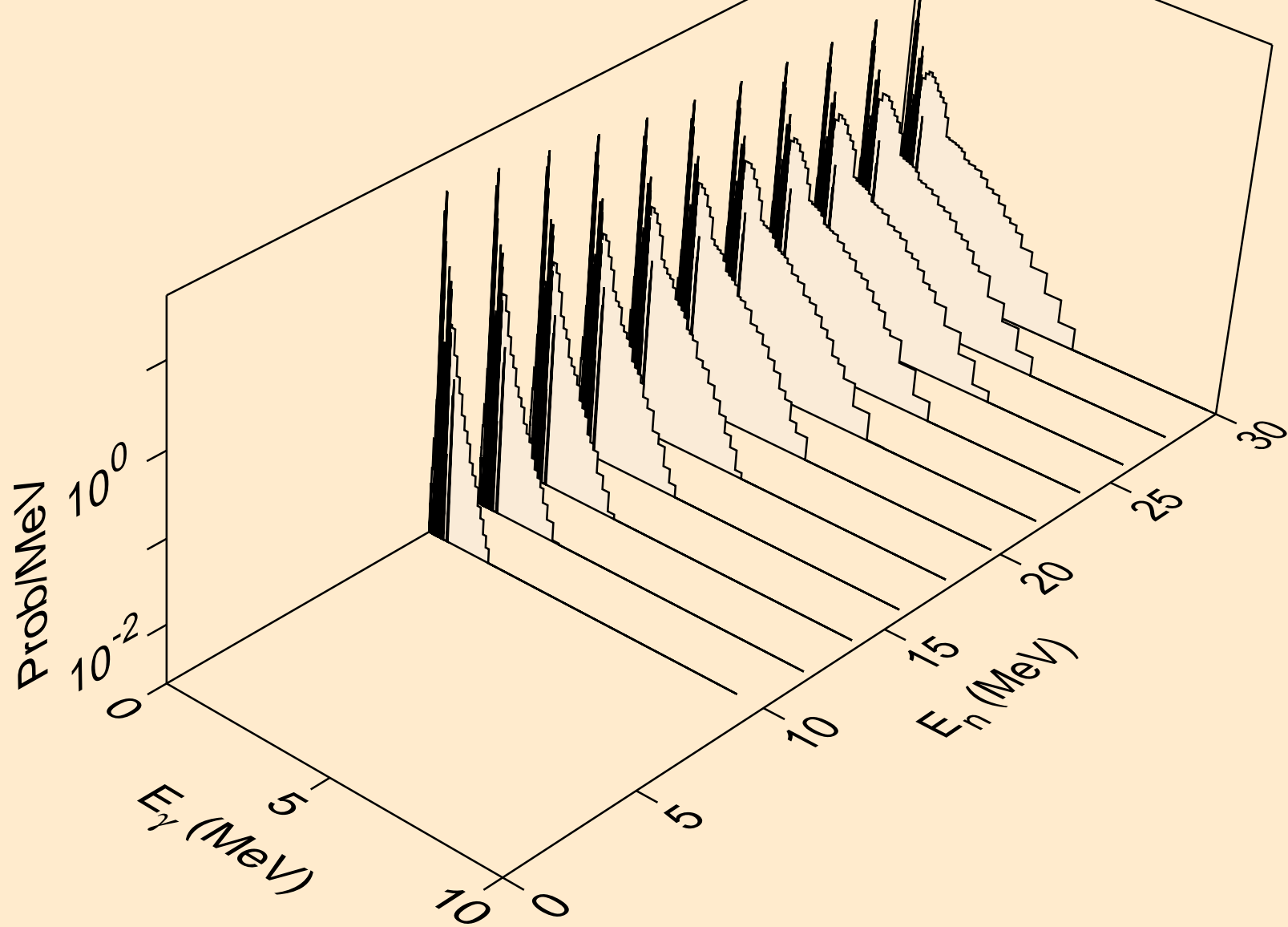
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Photon emission for (n,2n)



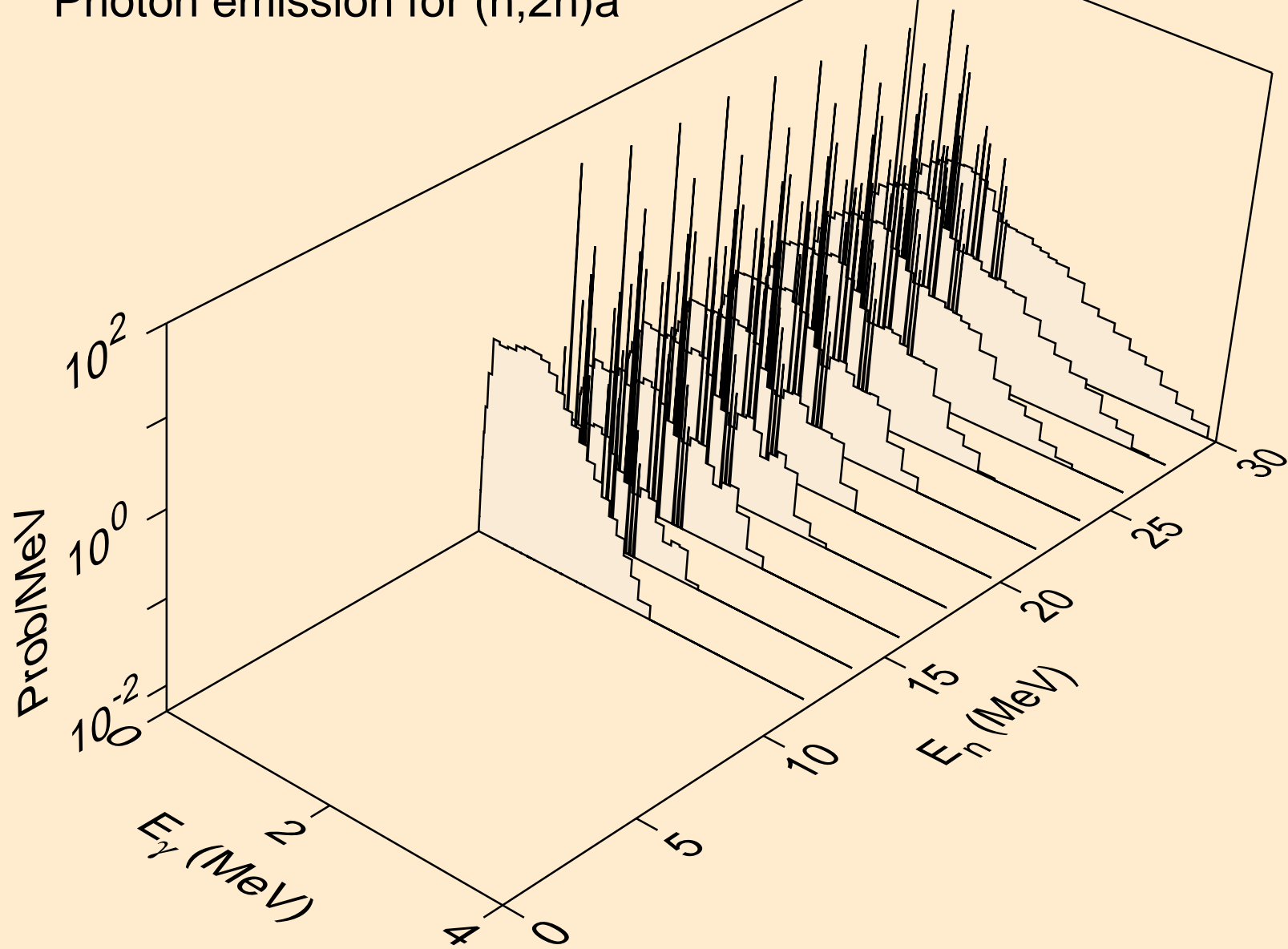
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Photon emission for (n,3n)



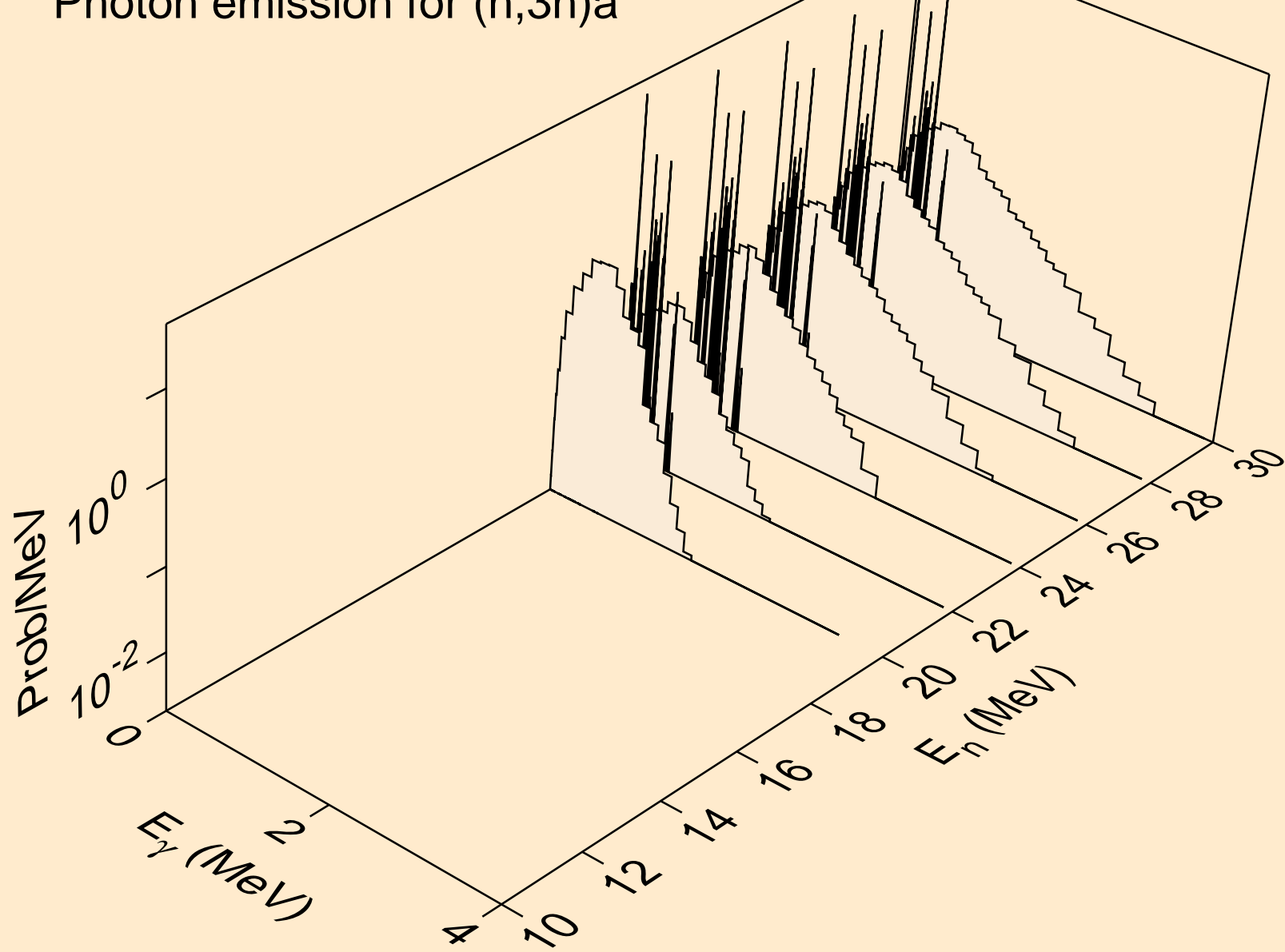
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)a

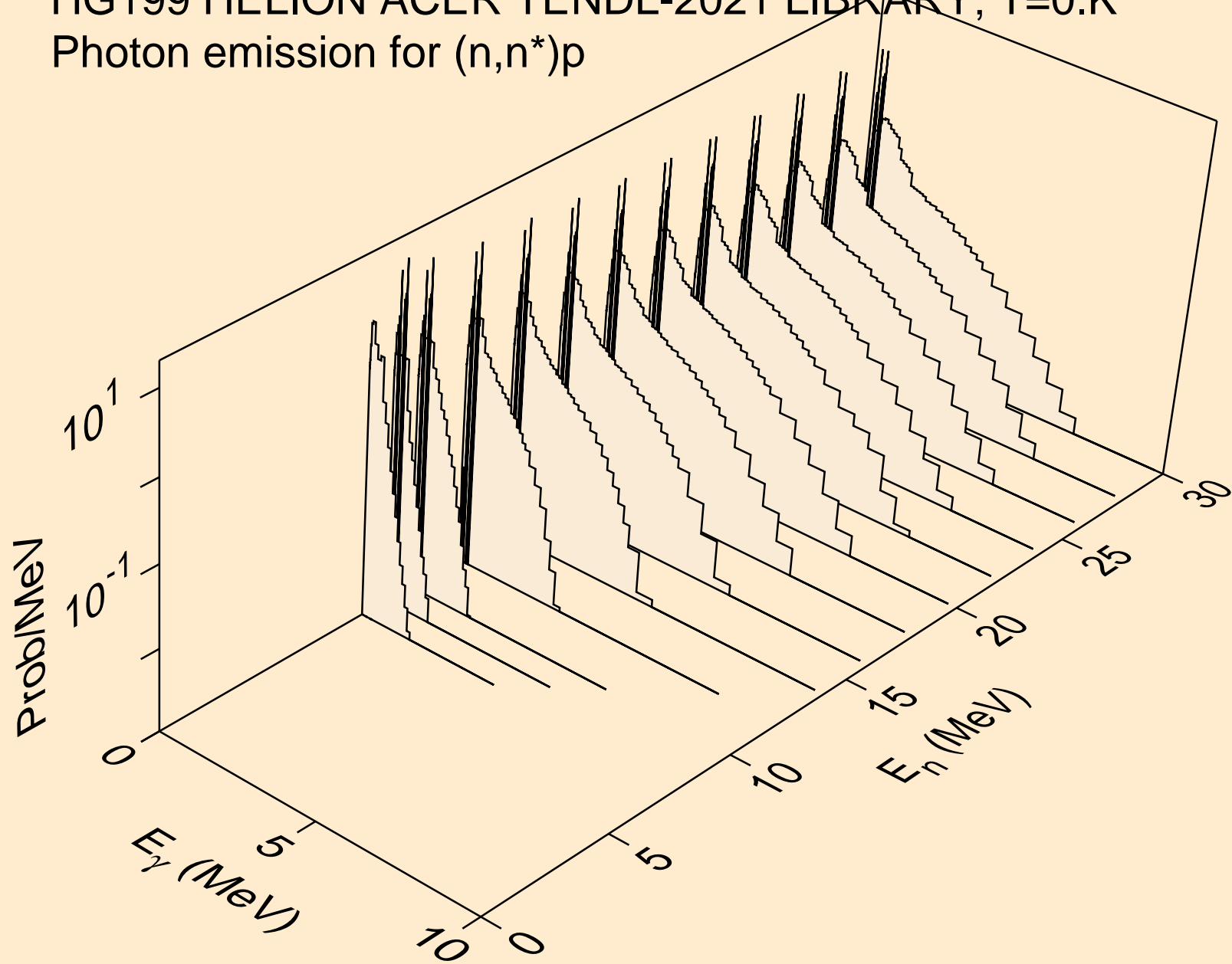


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)a

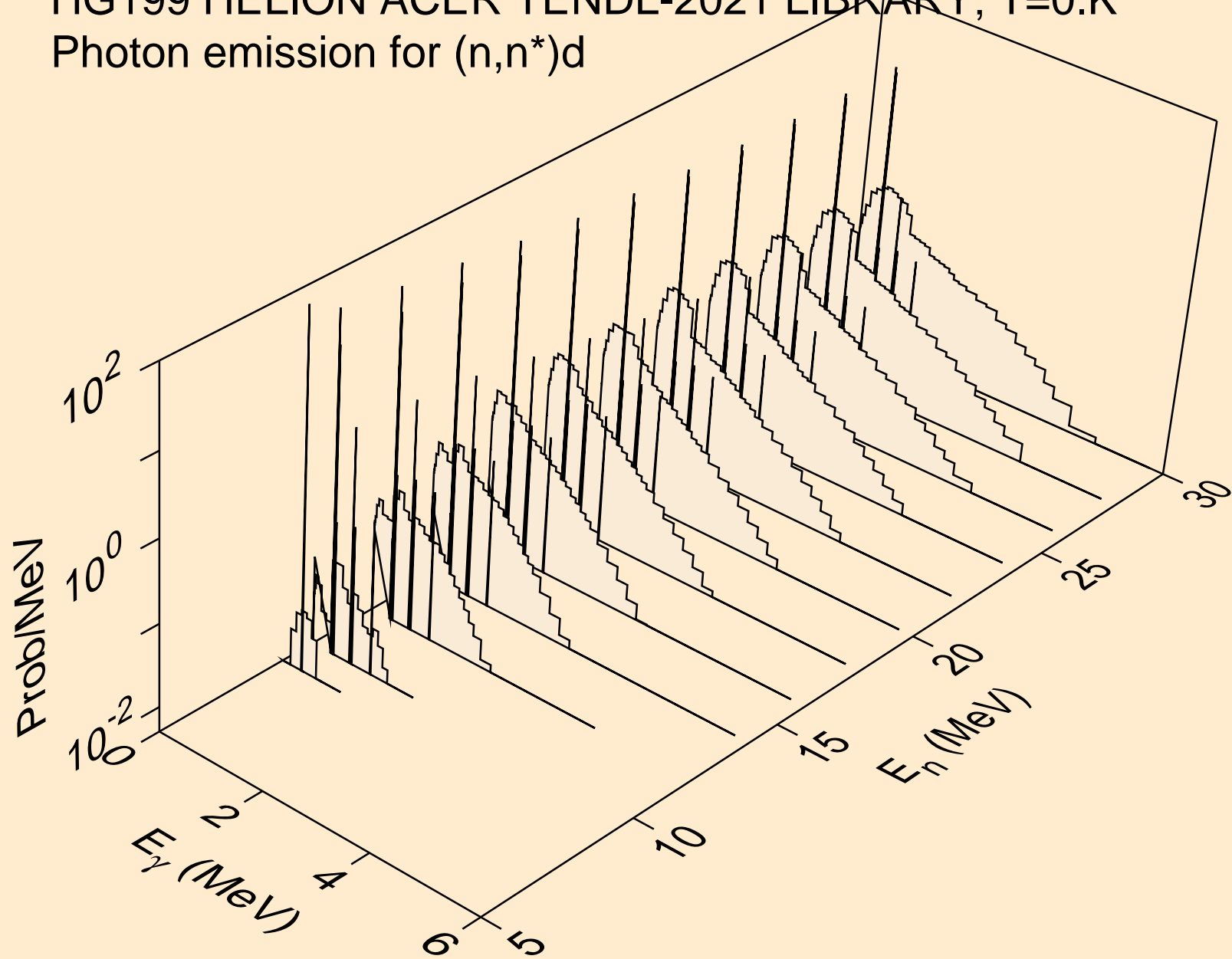




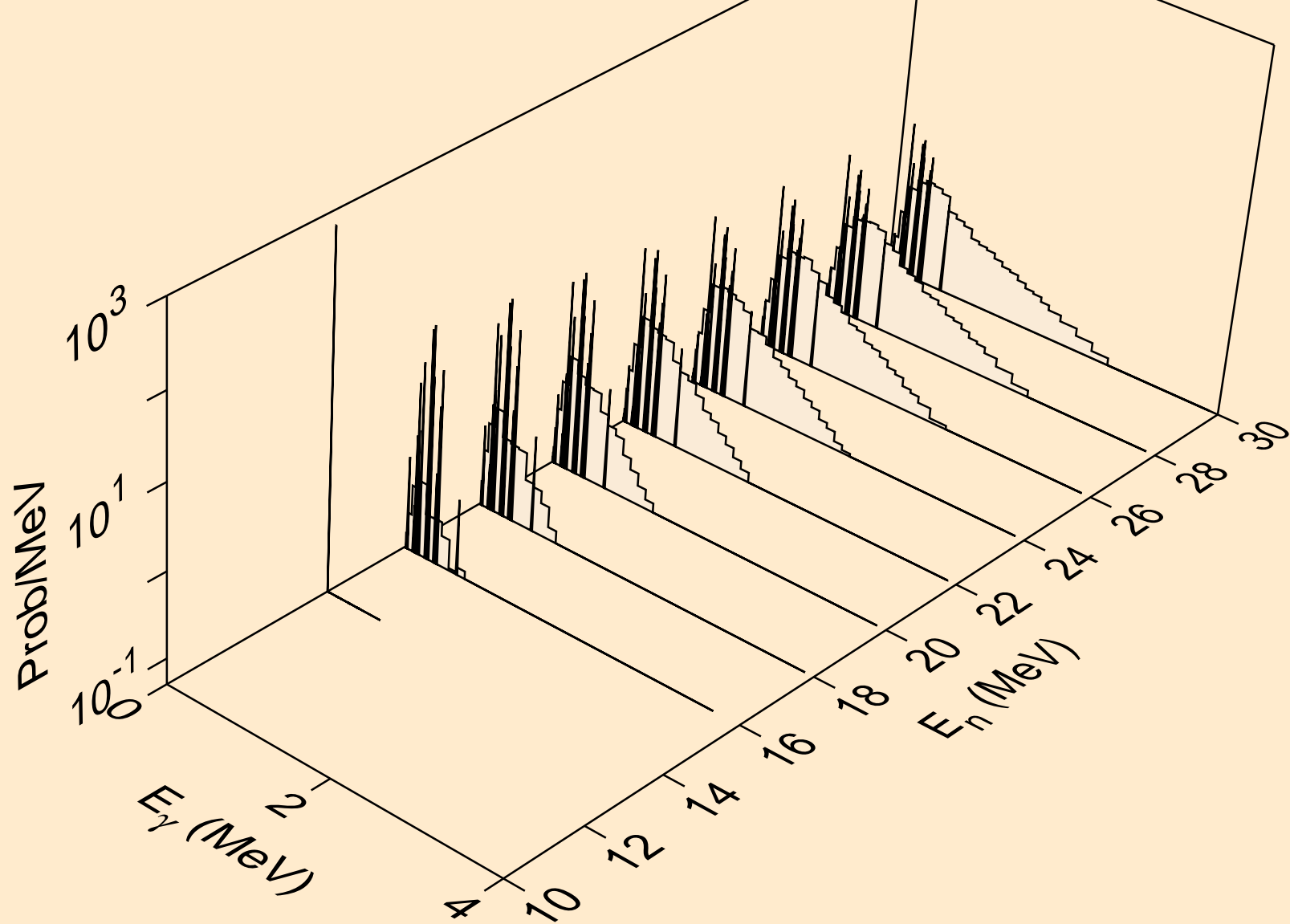
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



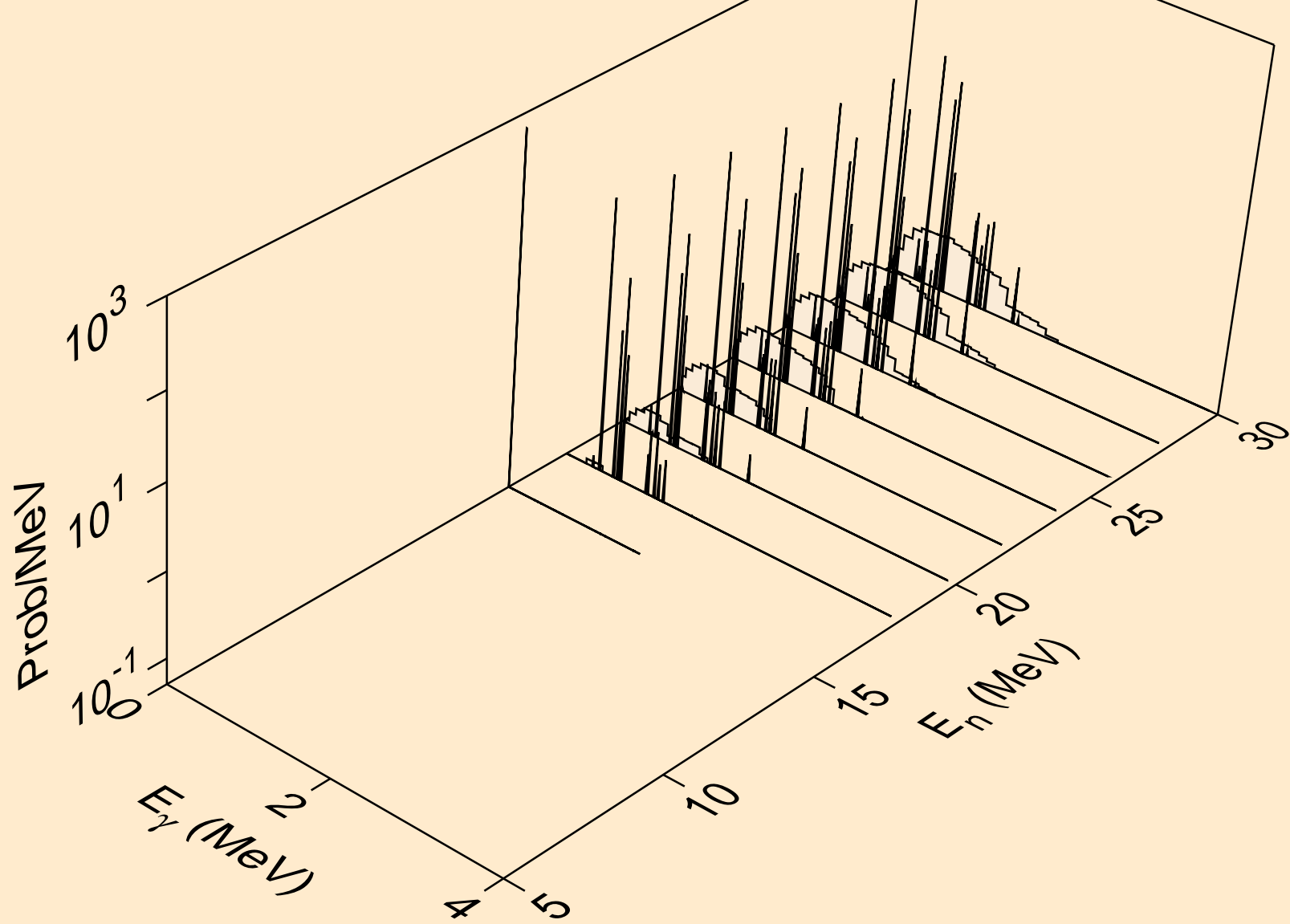
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Photon emission for (n,n\*)d



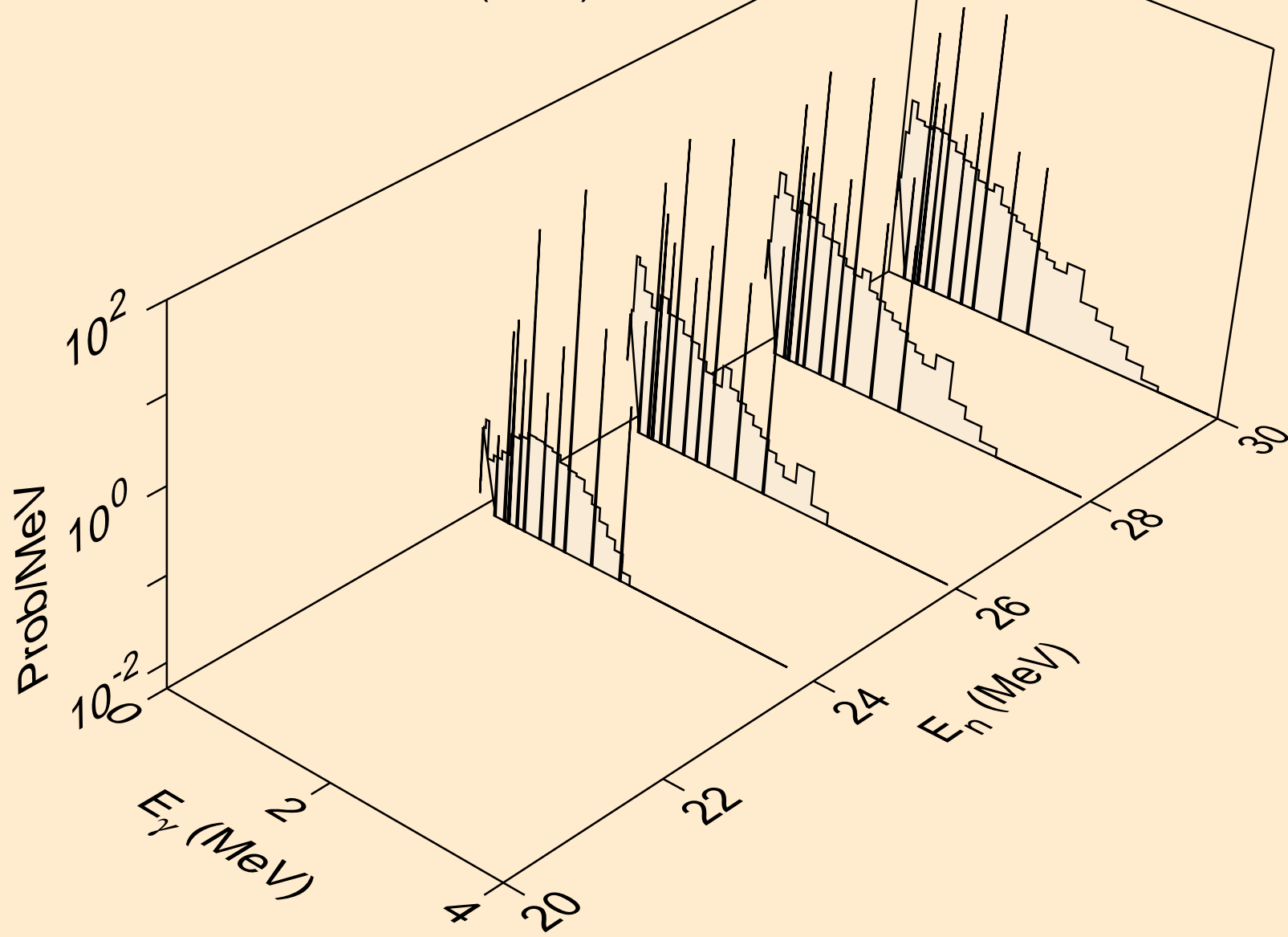
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



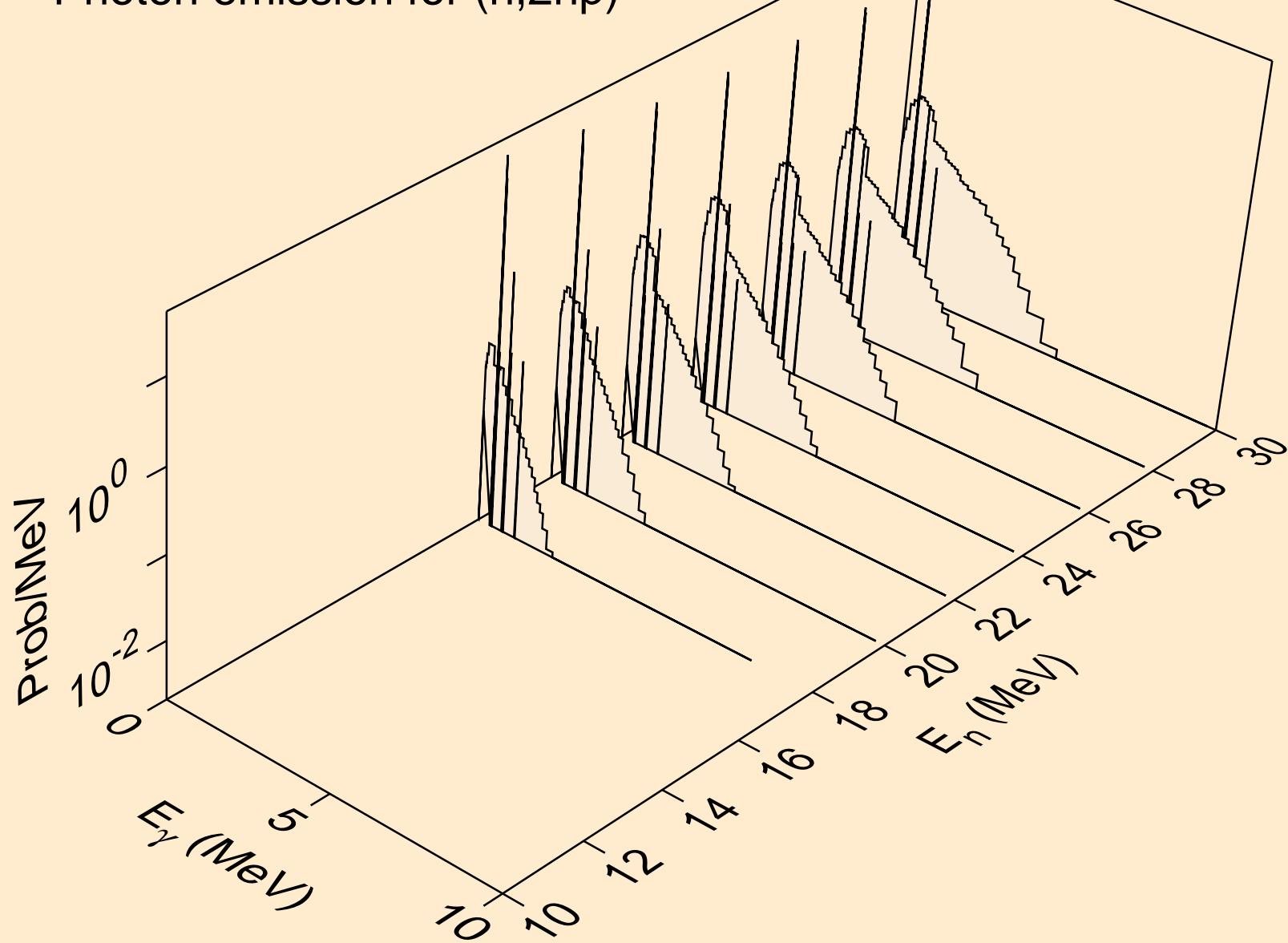
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



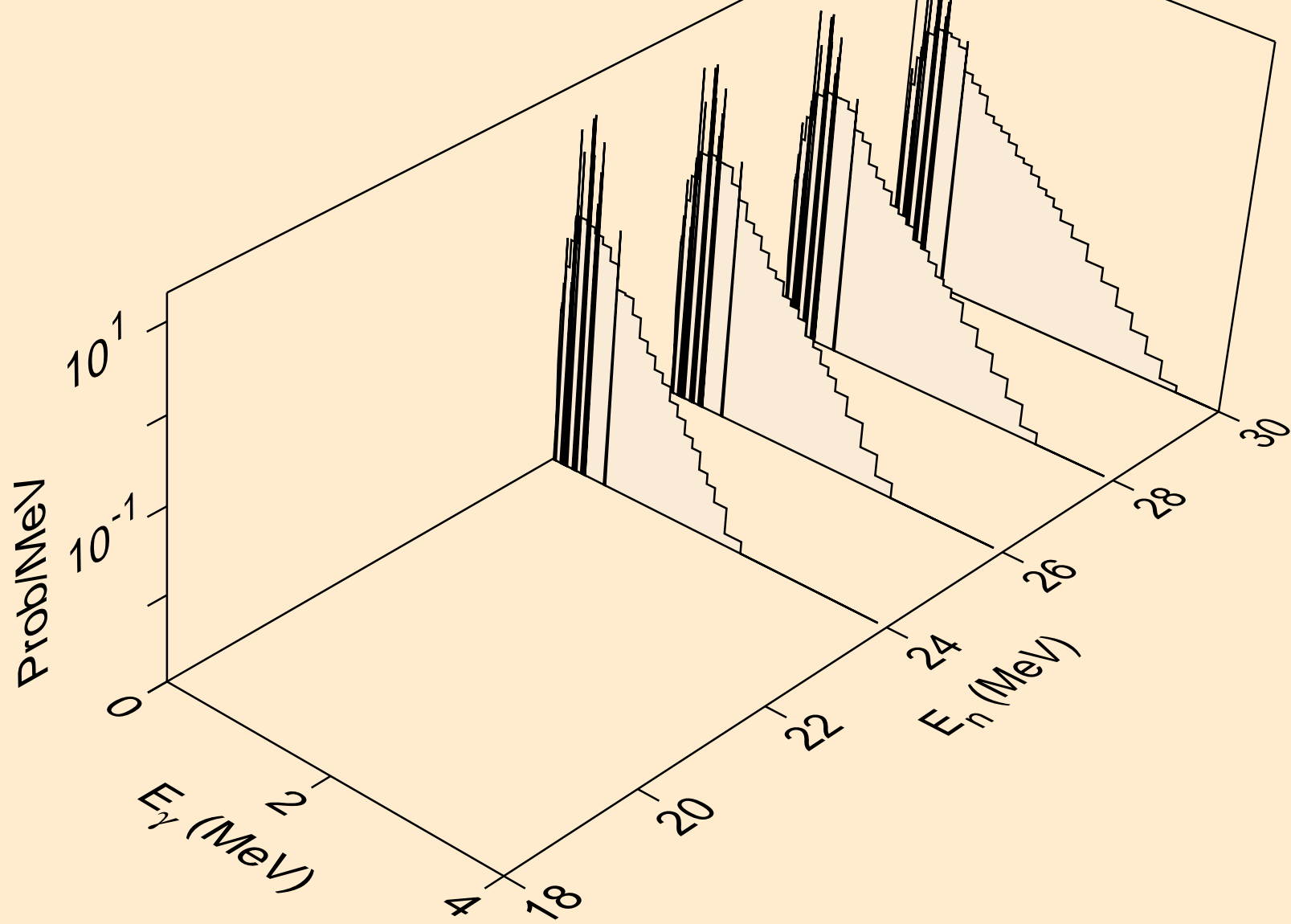
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,4n)



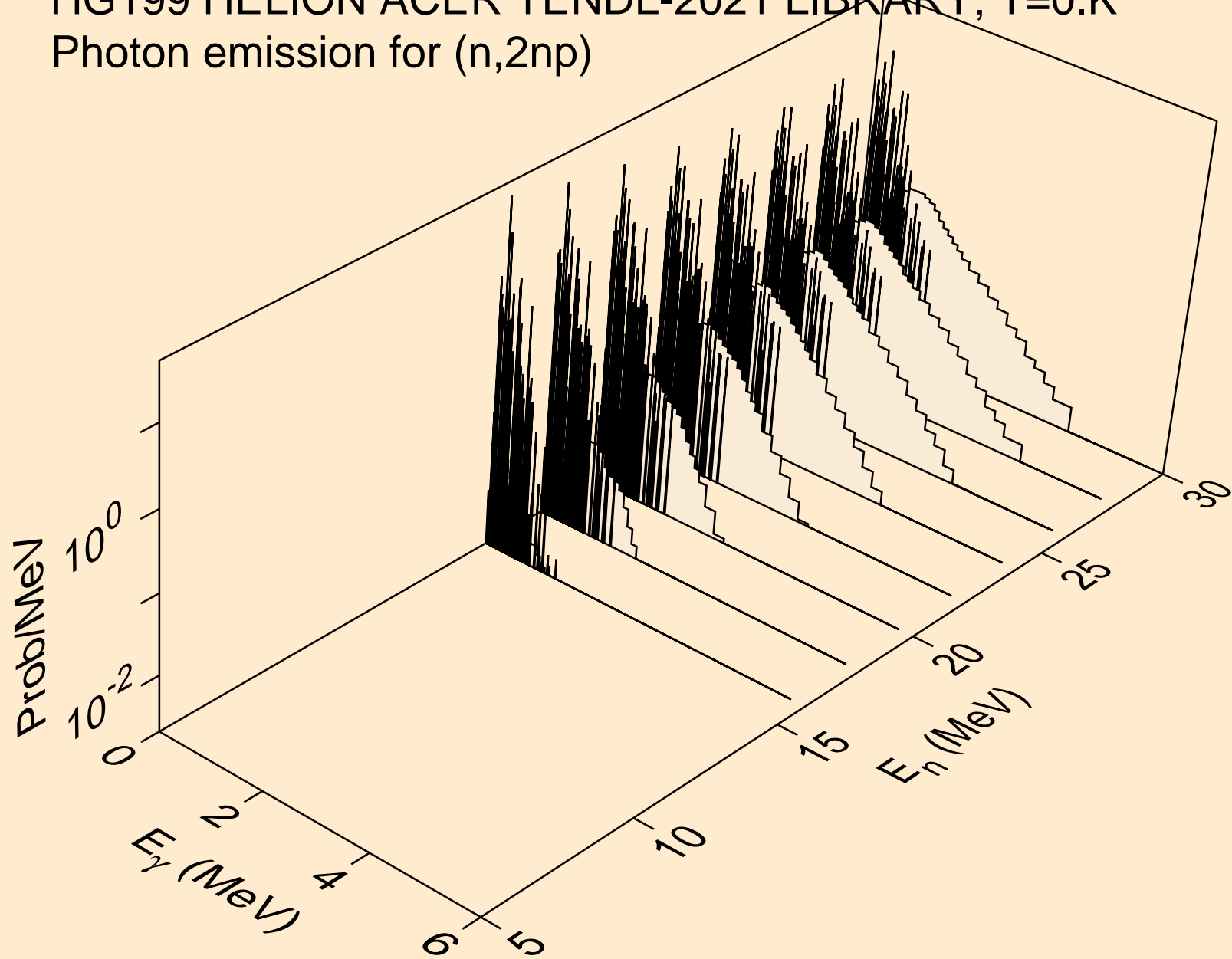
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3np)

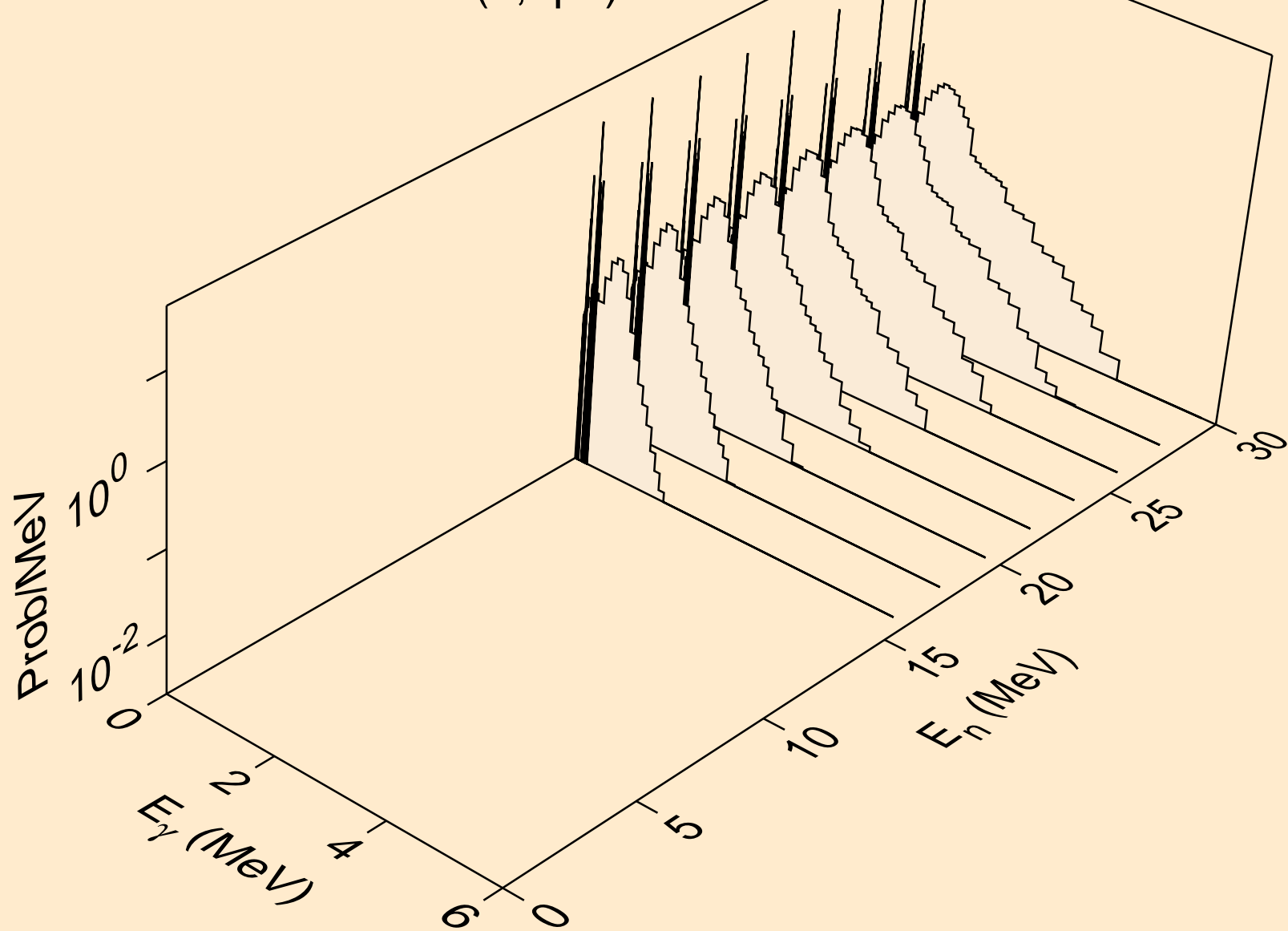


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Photon emission for (n,2np)

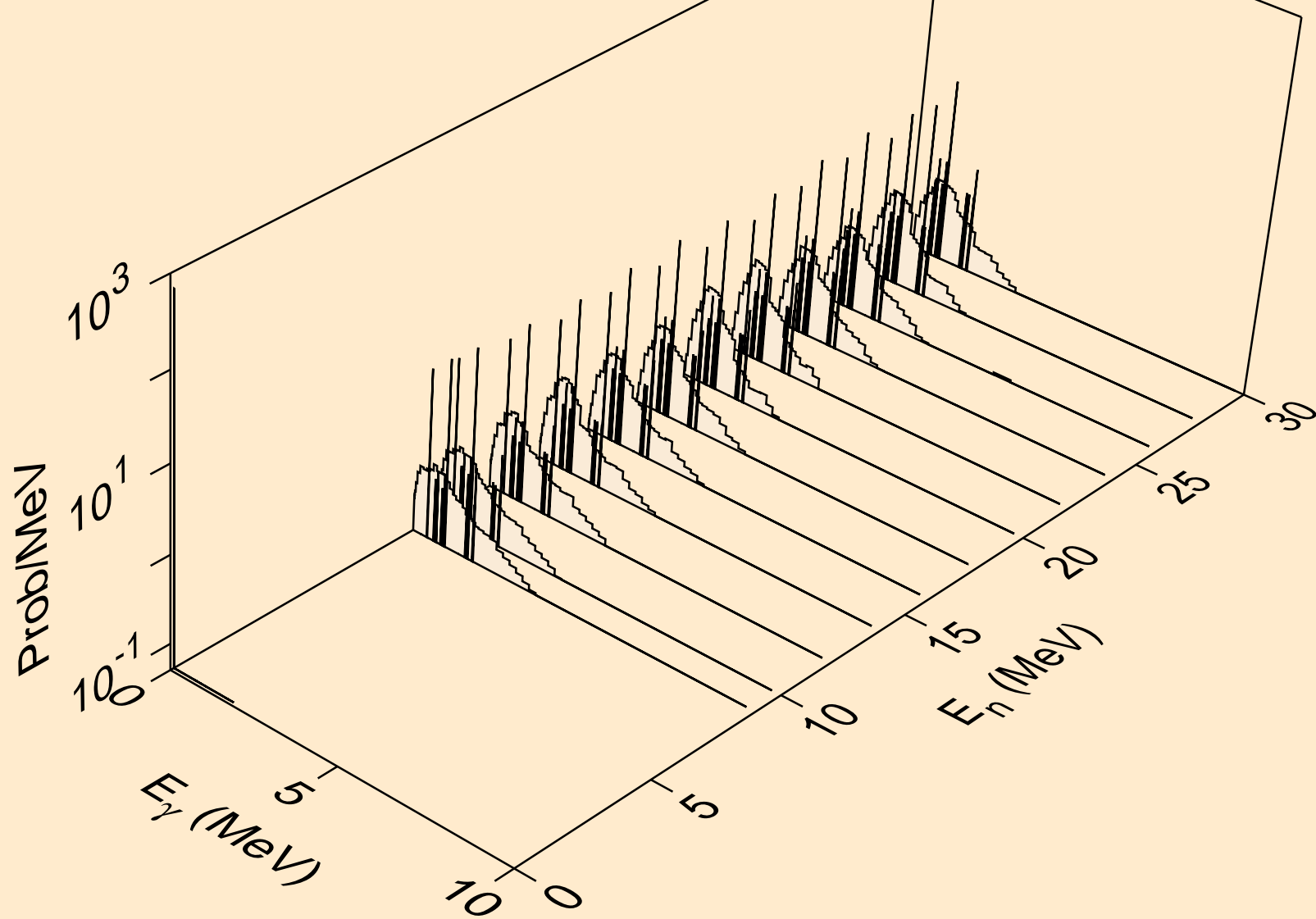




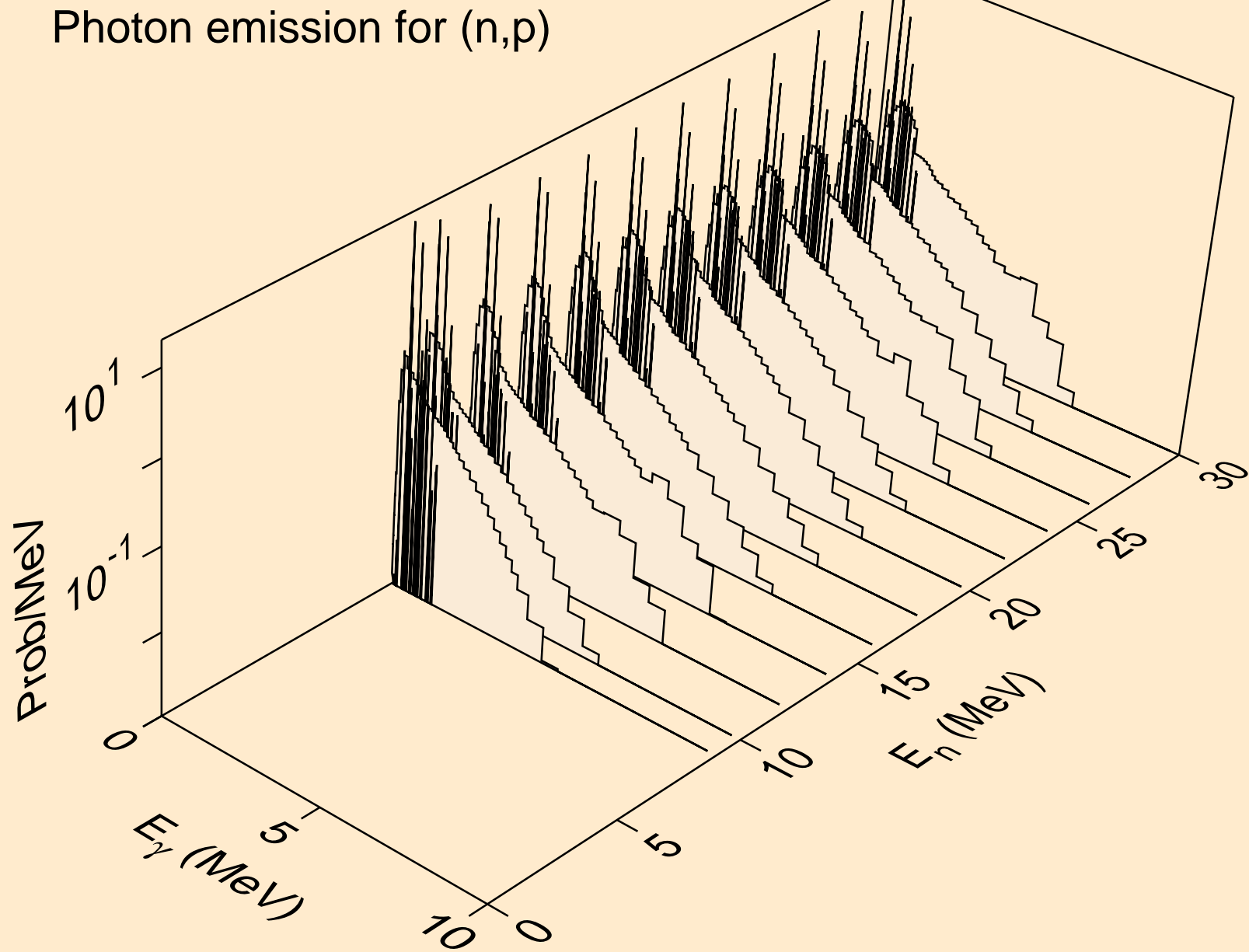
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Photon emission for (n,npa)



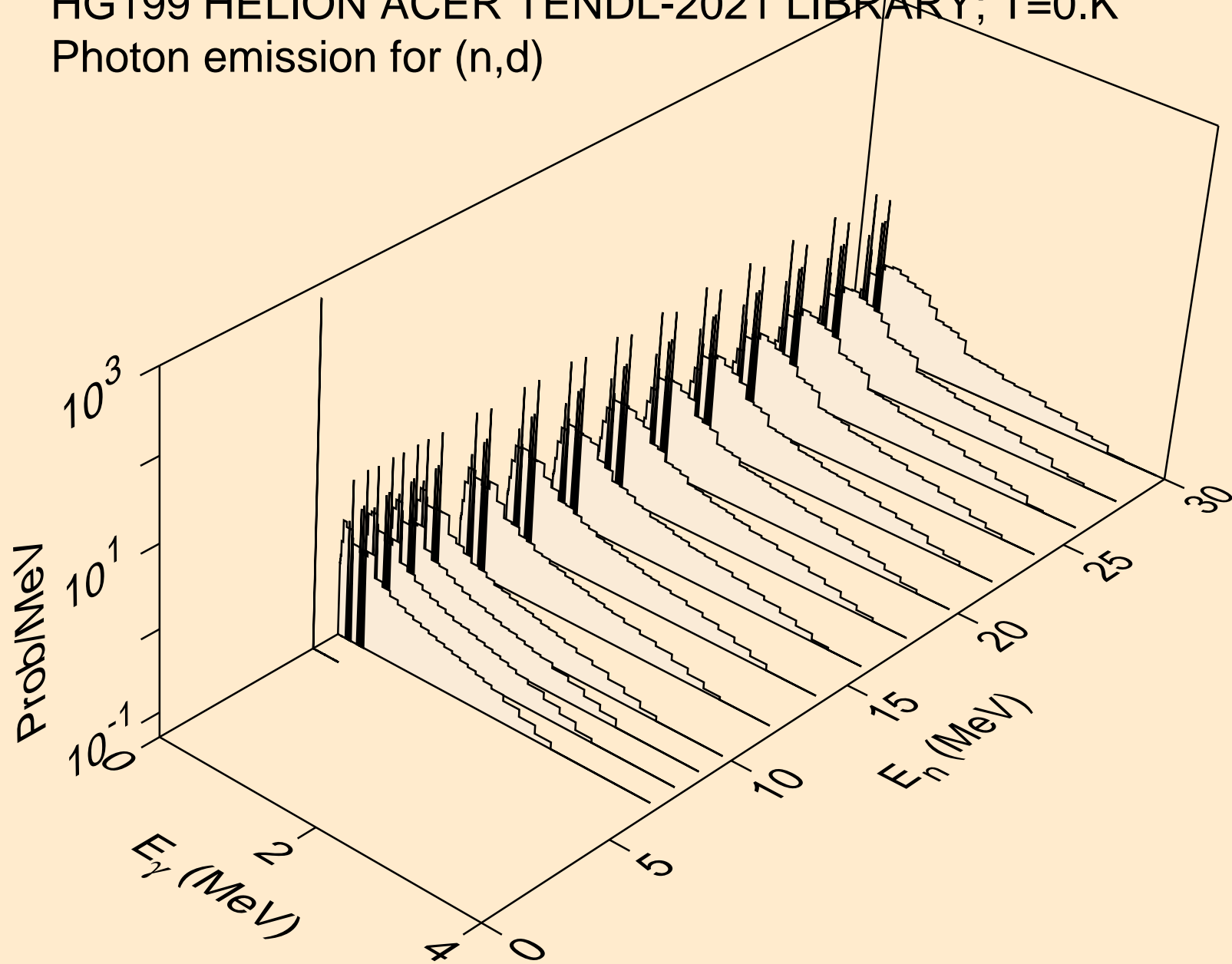
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Photon emission for (n,gma)



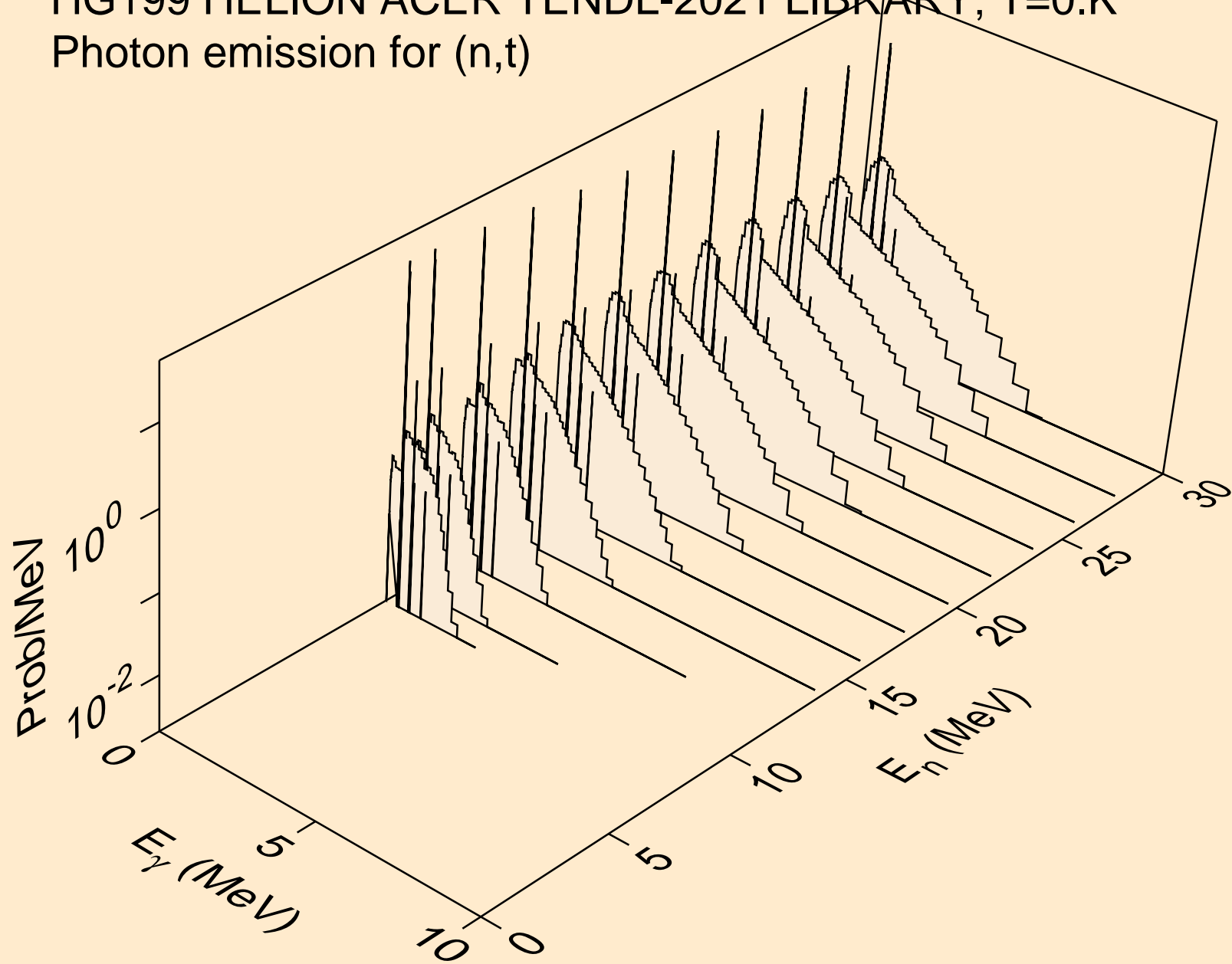
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Photon emission for (n,p)



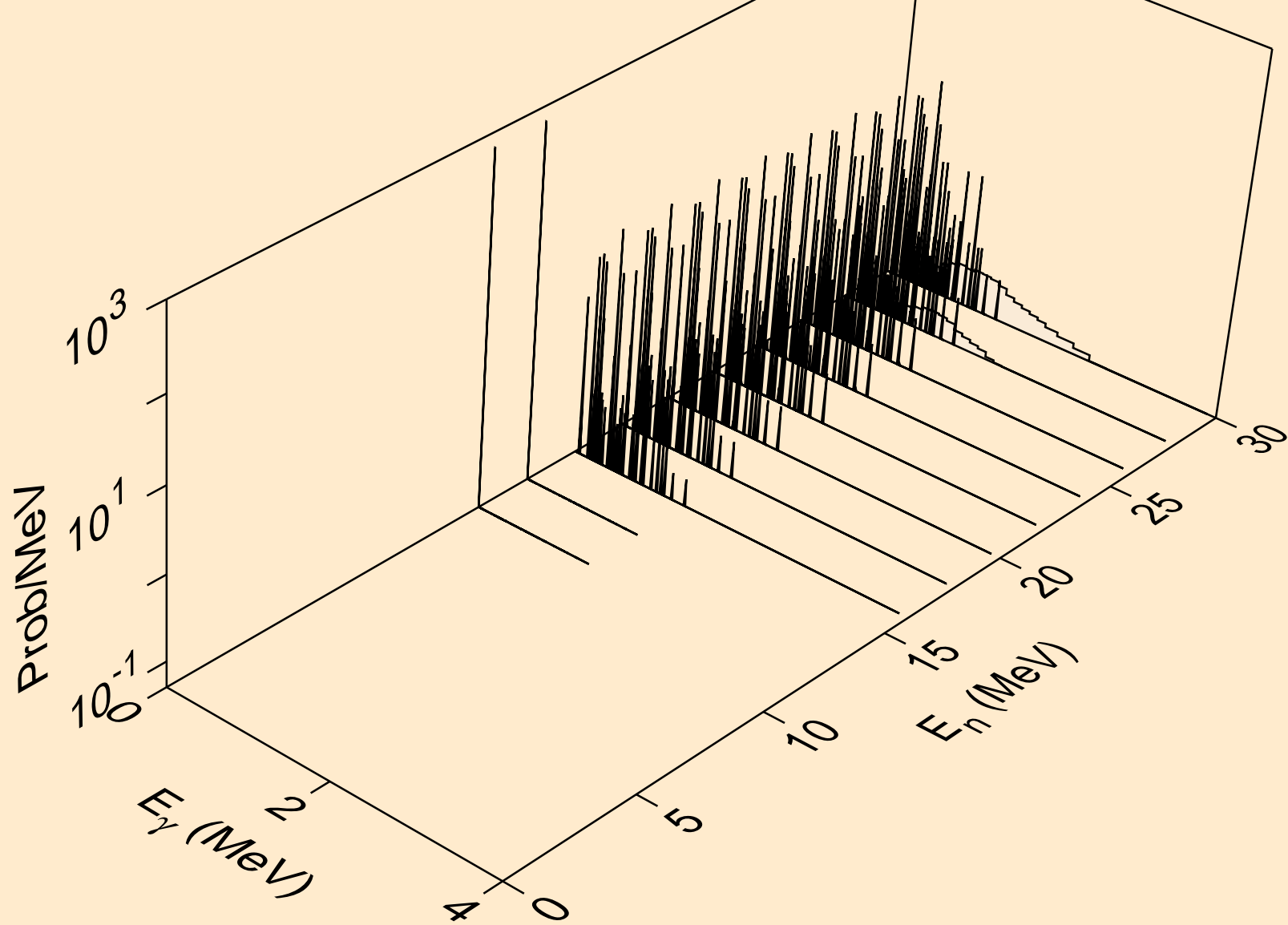
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Photon emission for (n,d)



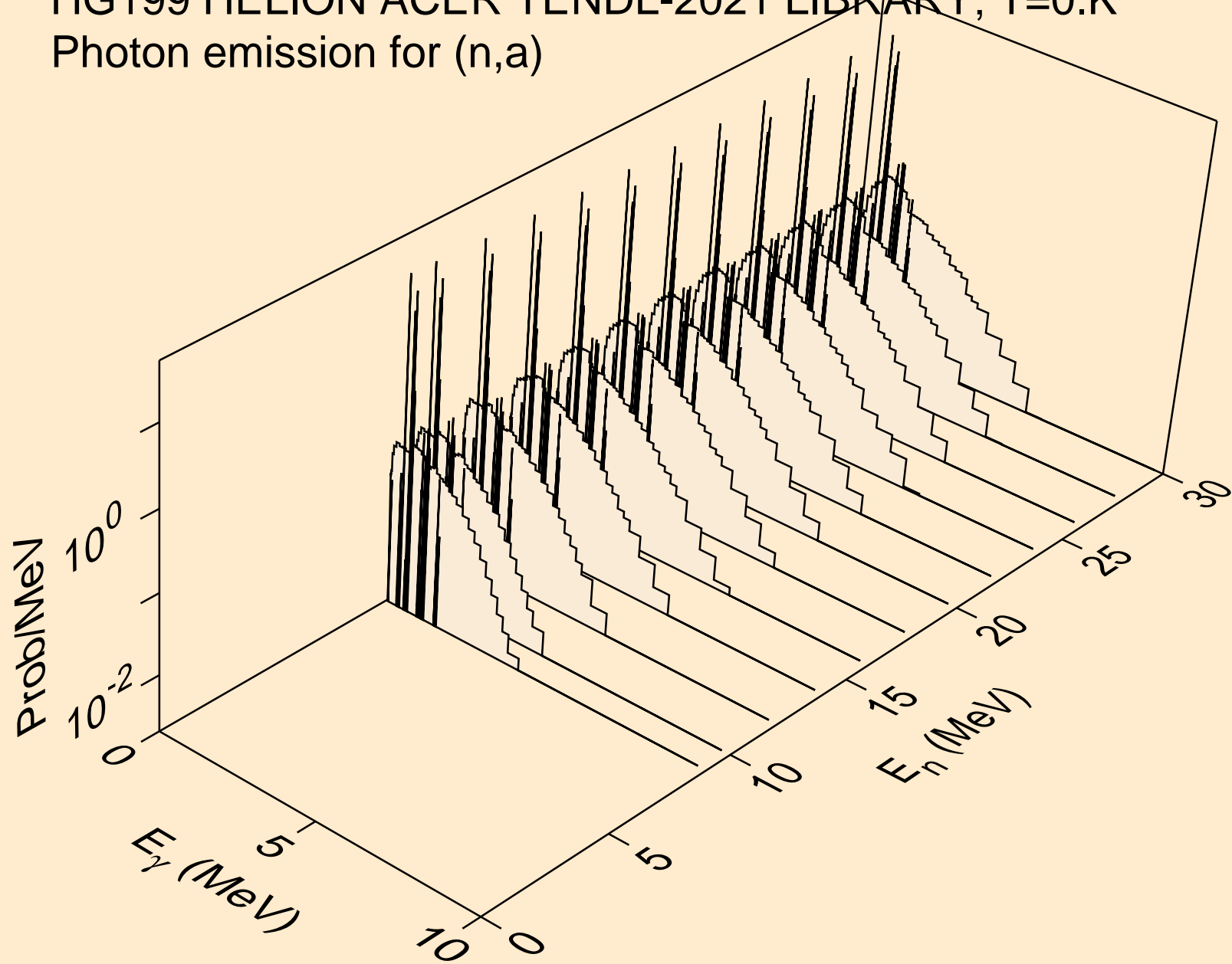
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Photon emission for (n,t)



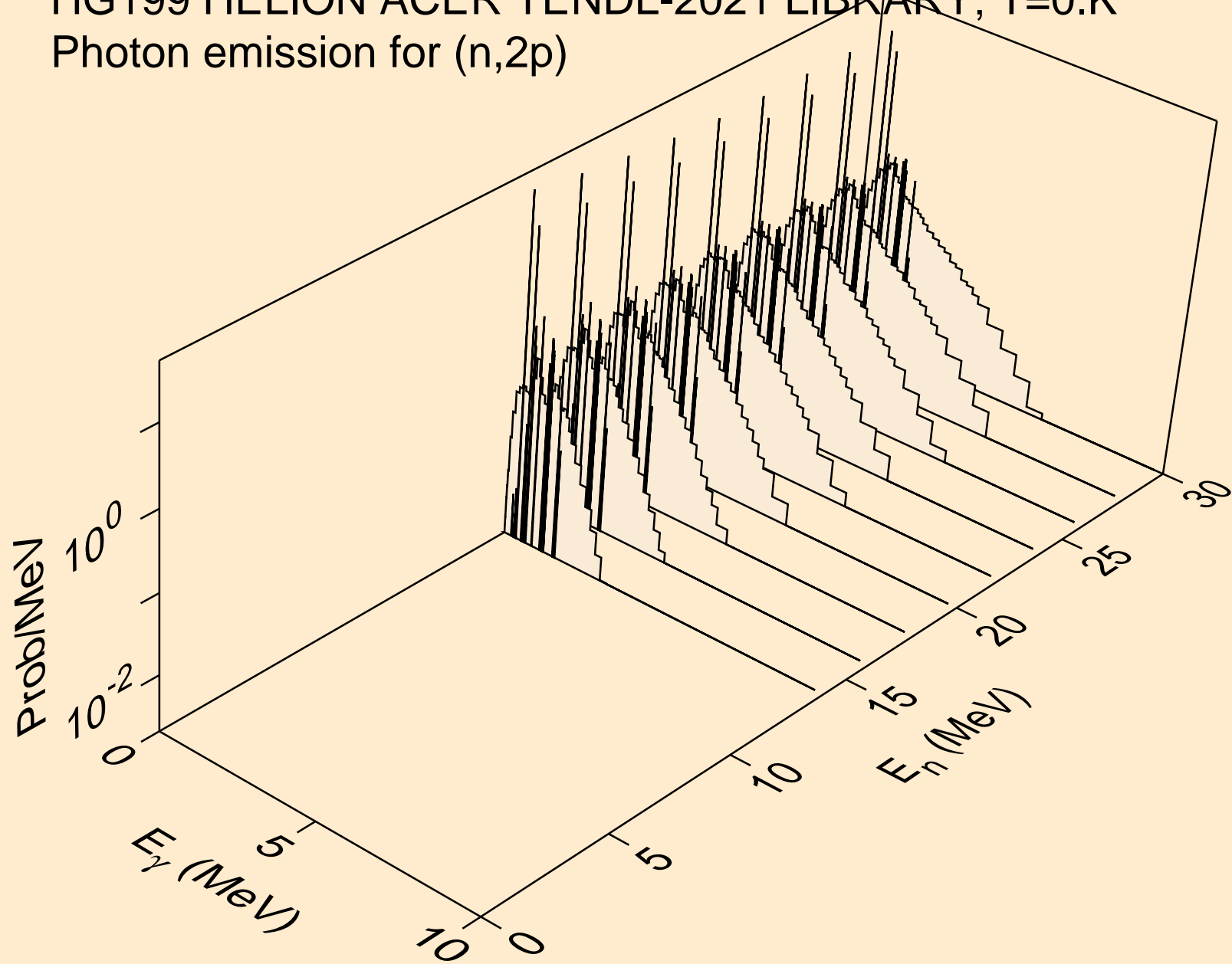
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,a)

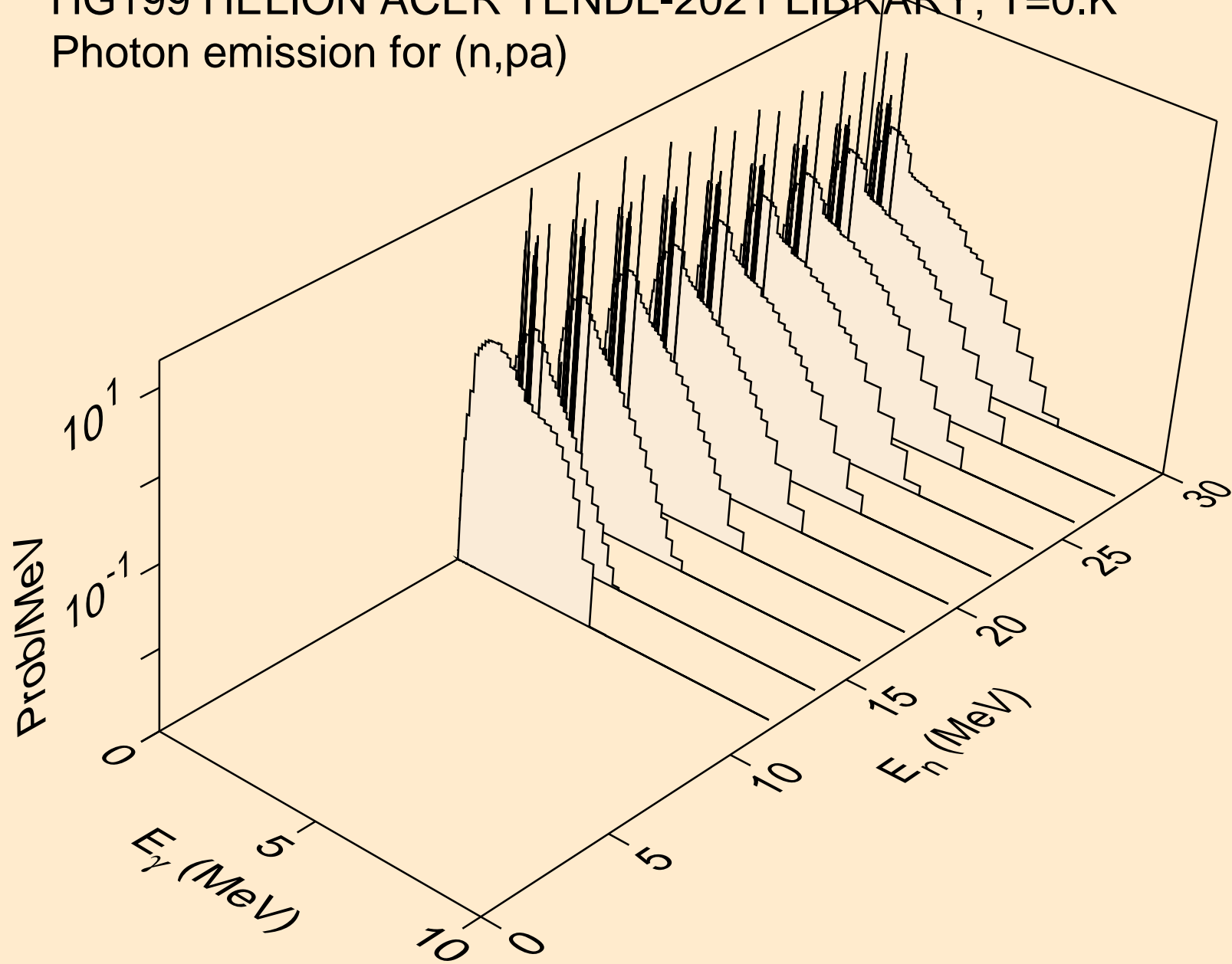


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)

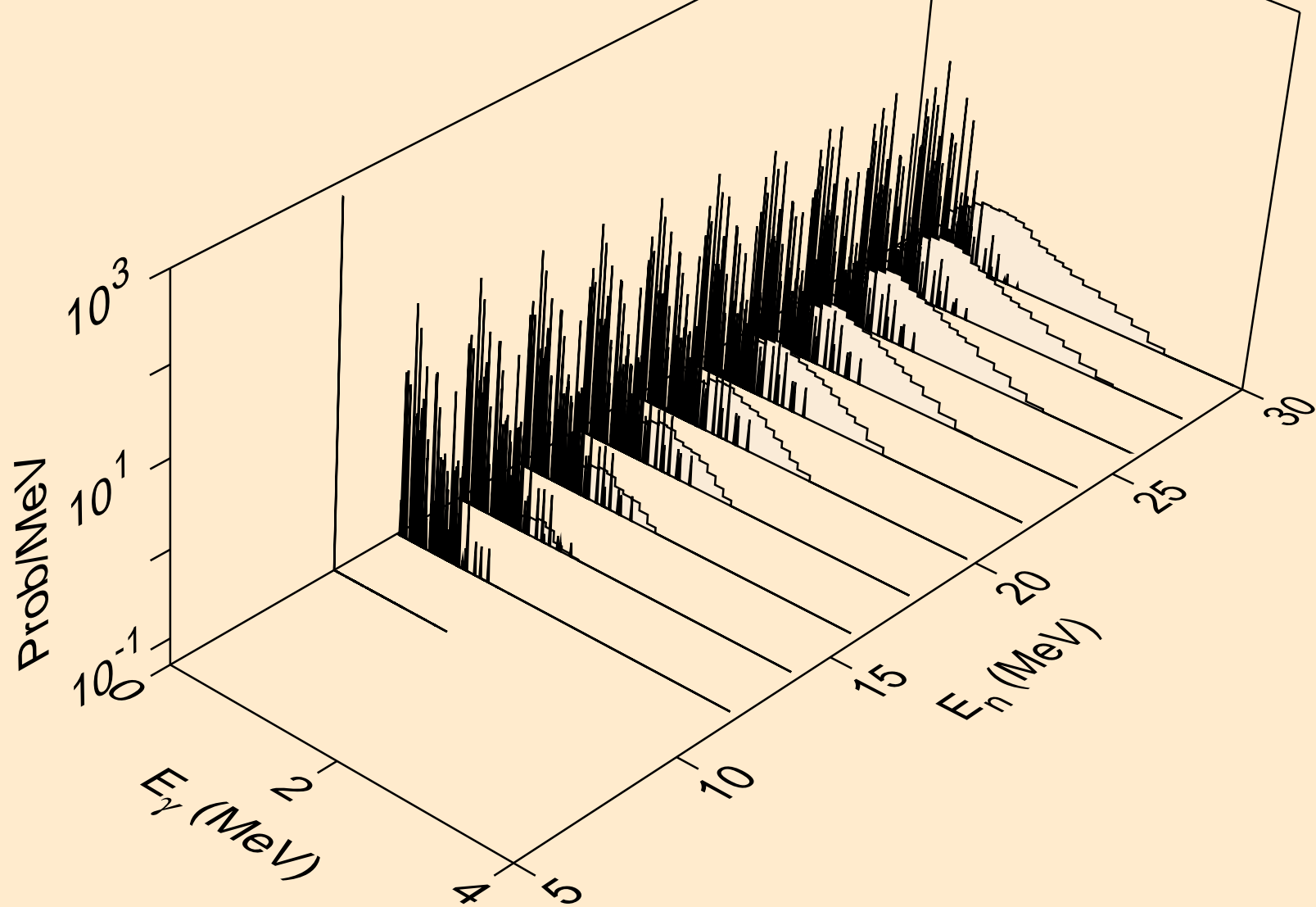




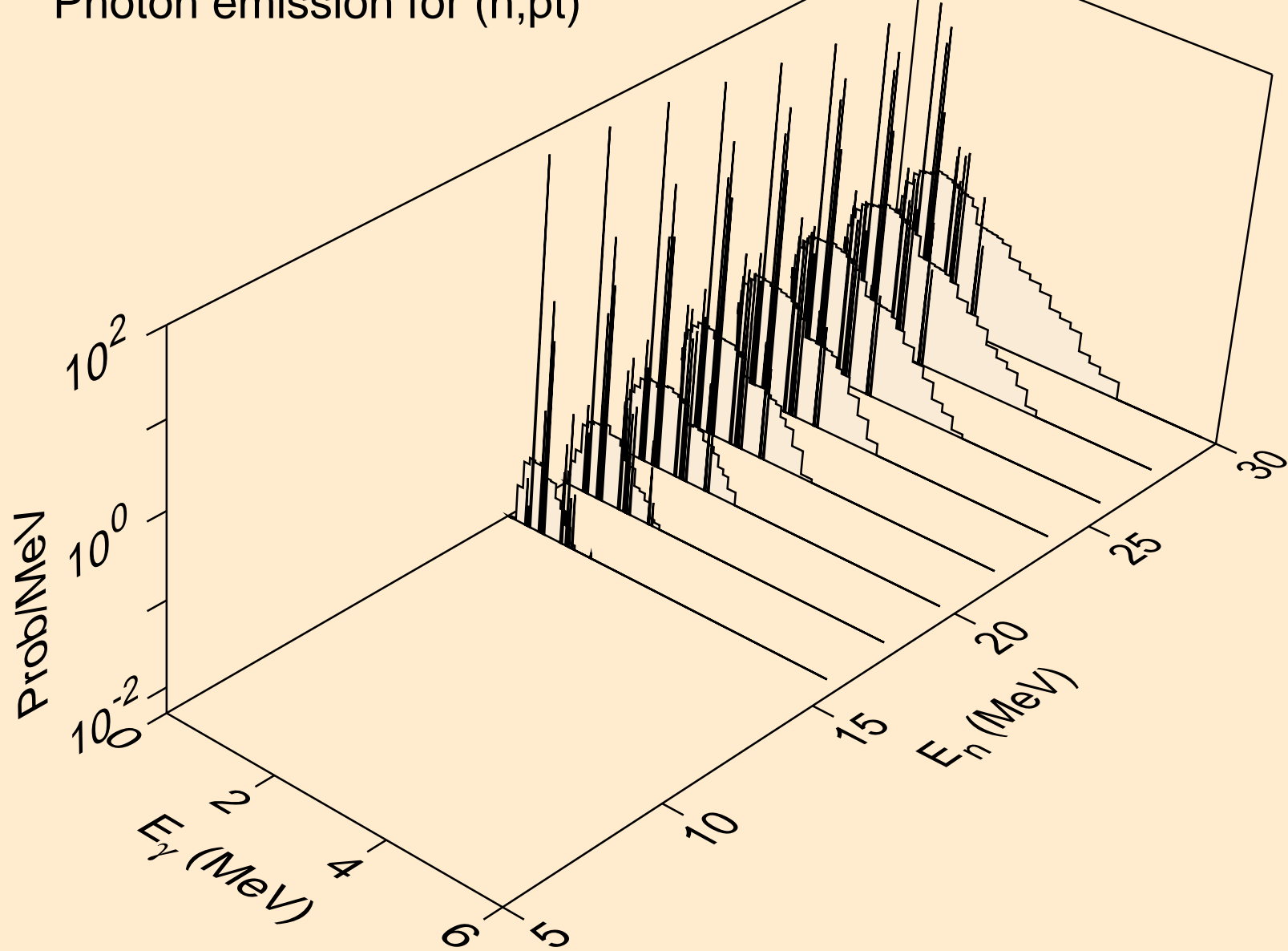
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Photon emission for (n,pa)



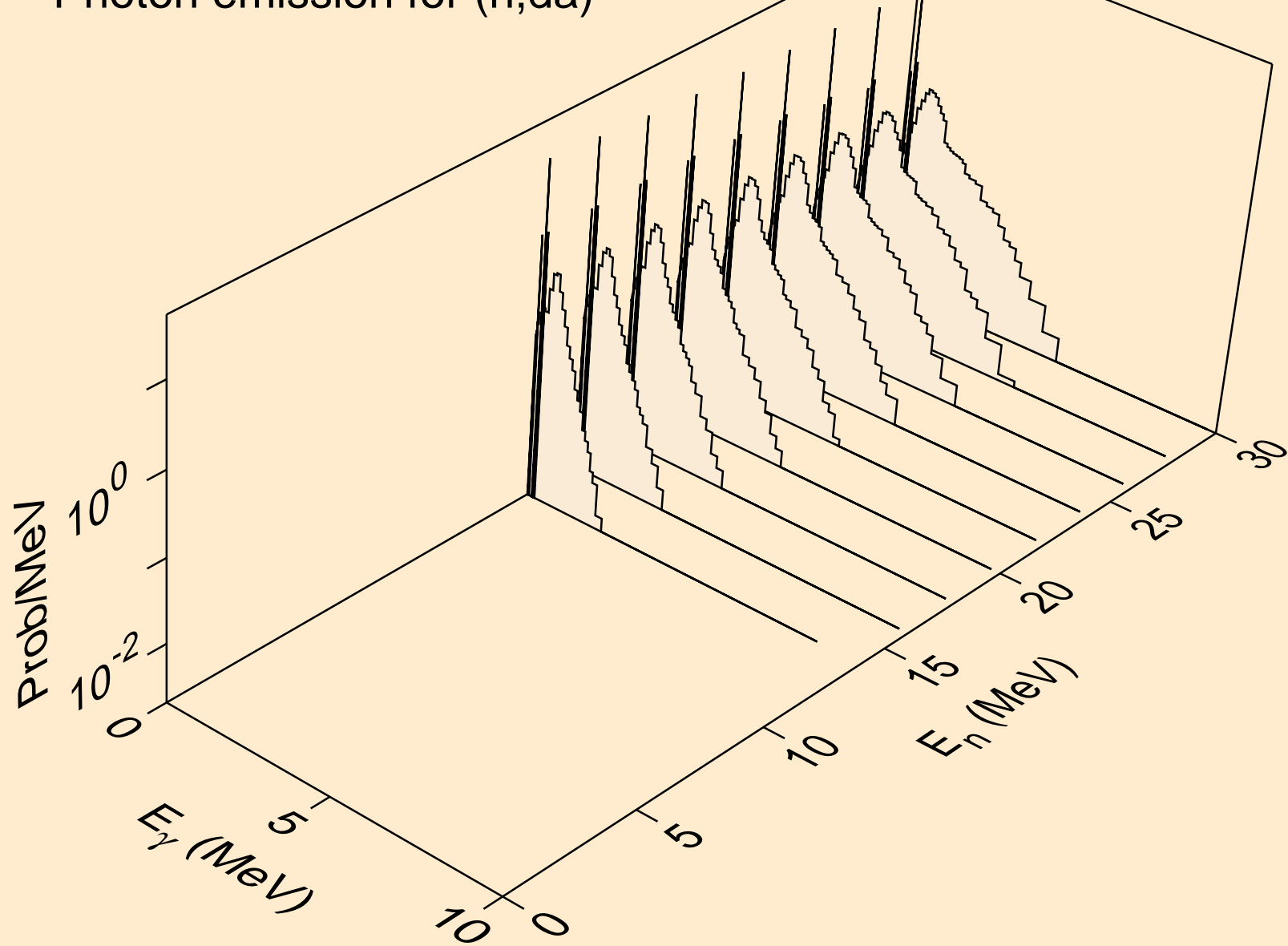
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pd)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pt)

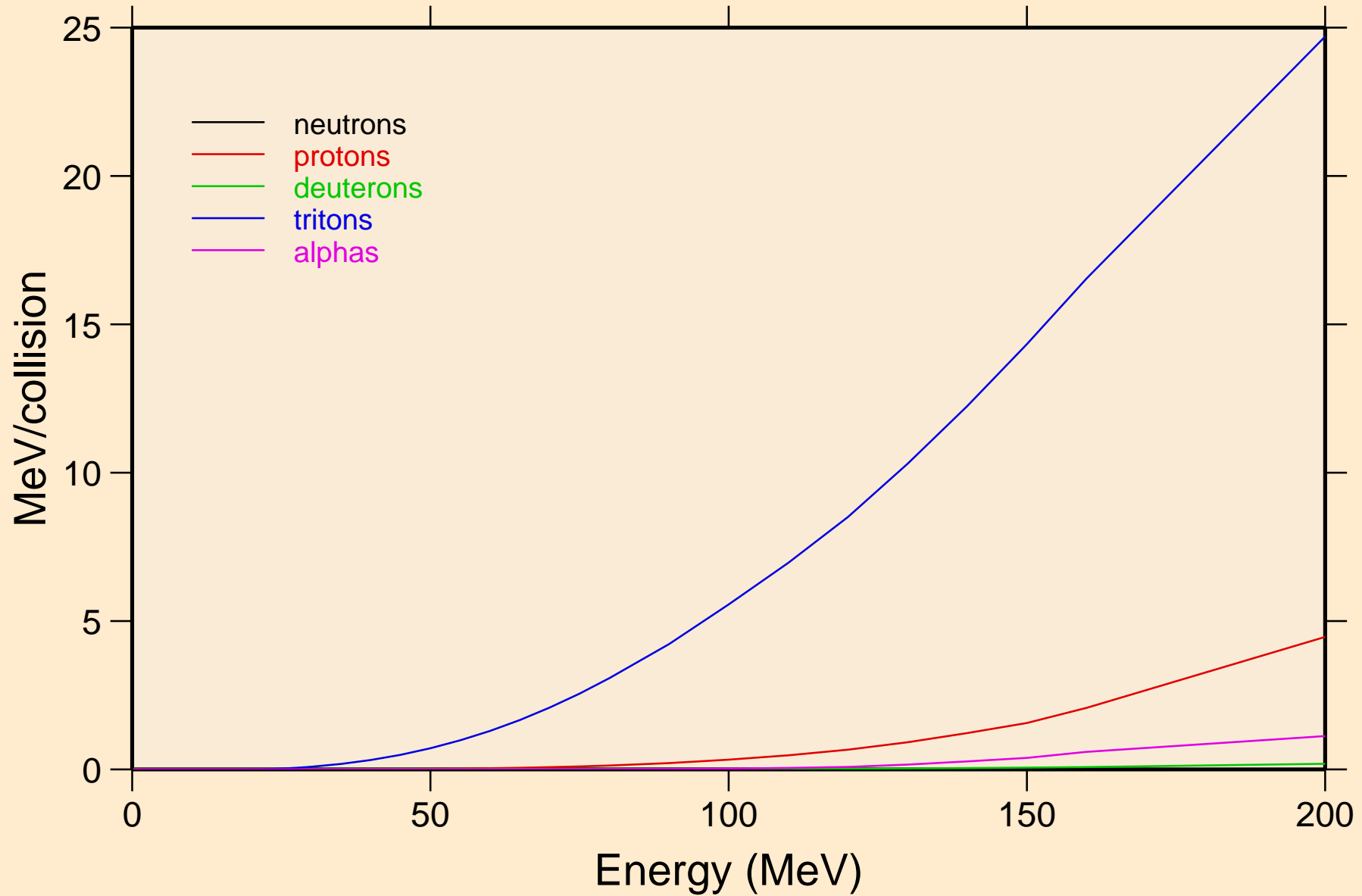


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Photon emission for (n,da)

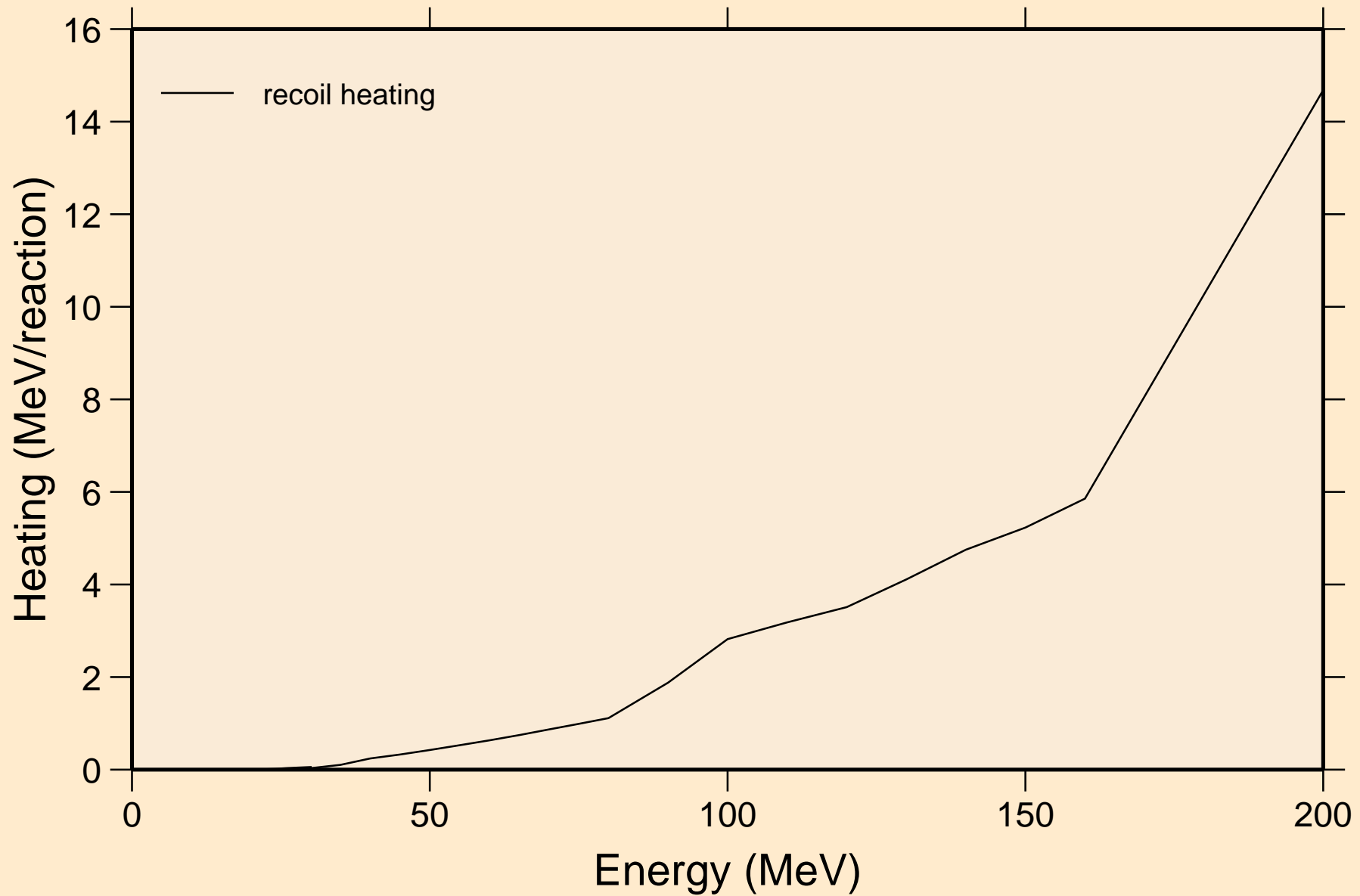


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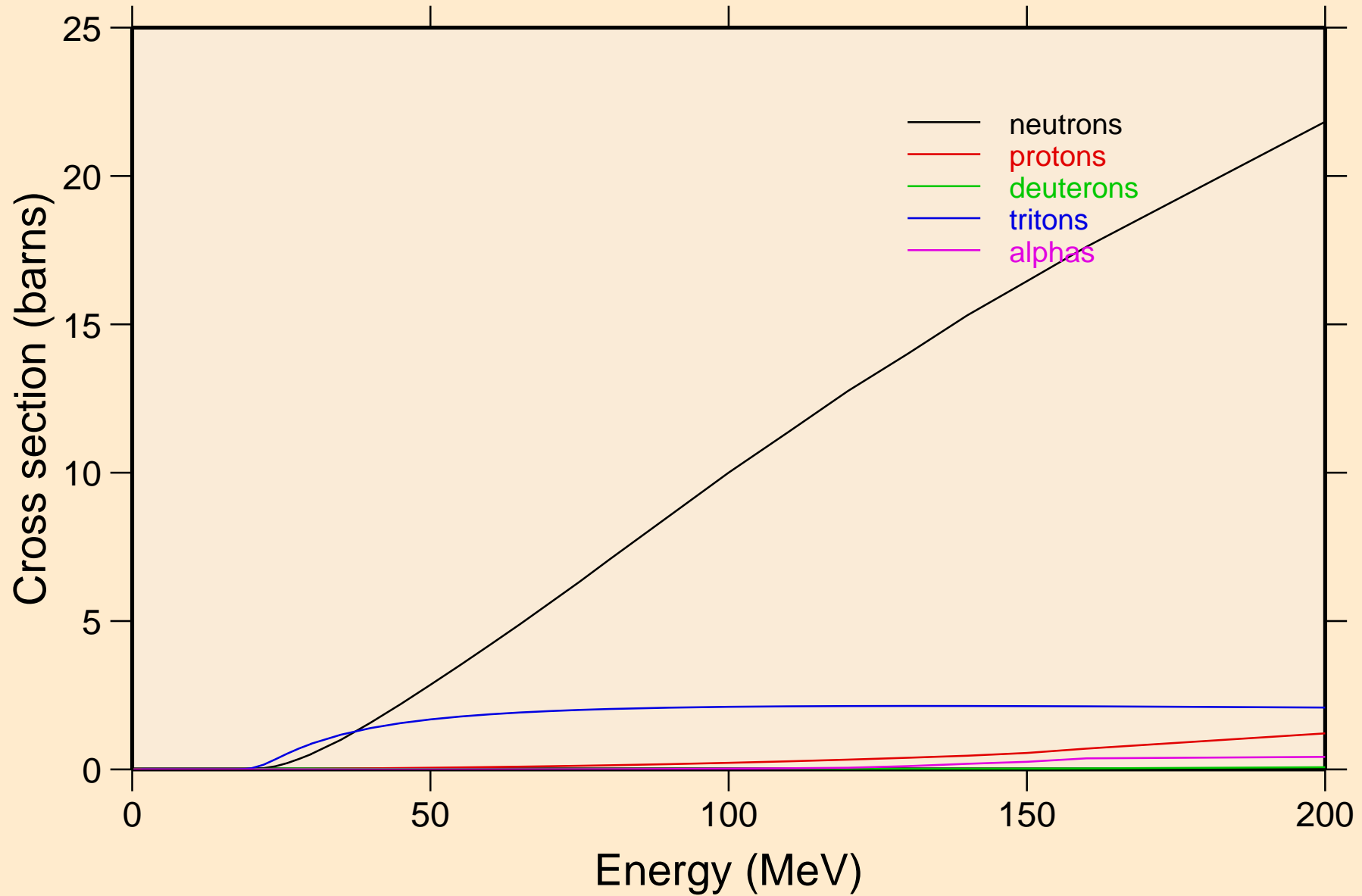
## Particle heating contributions



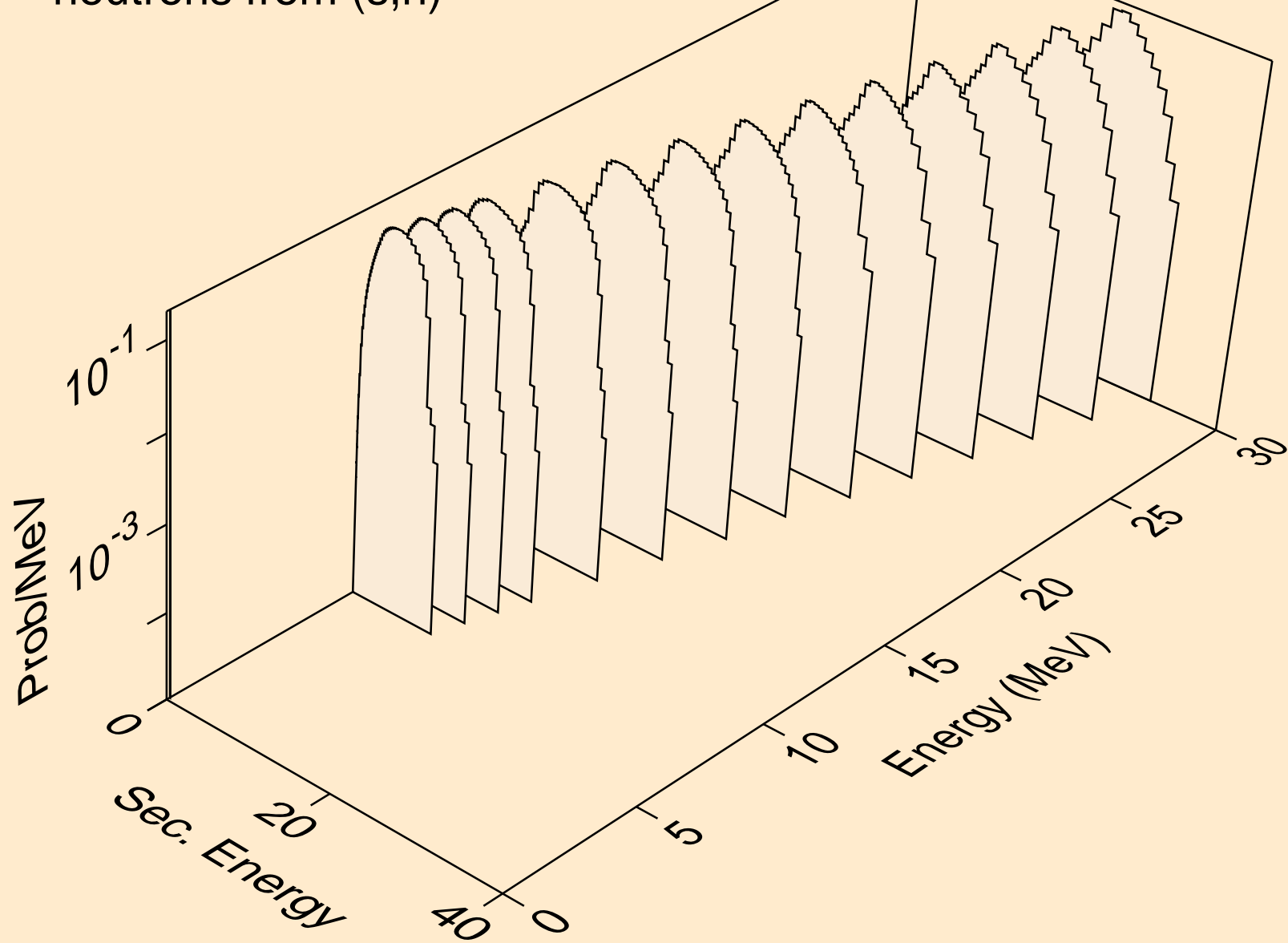
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Recoil Heating



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections

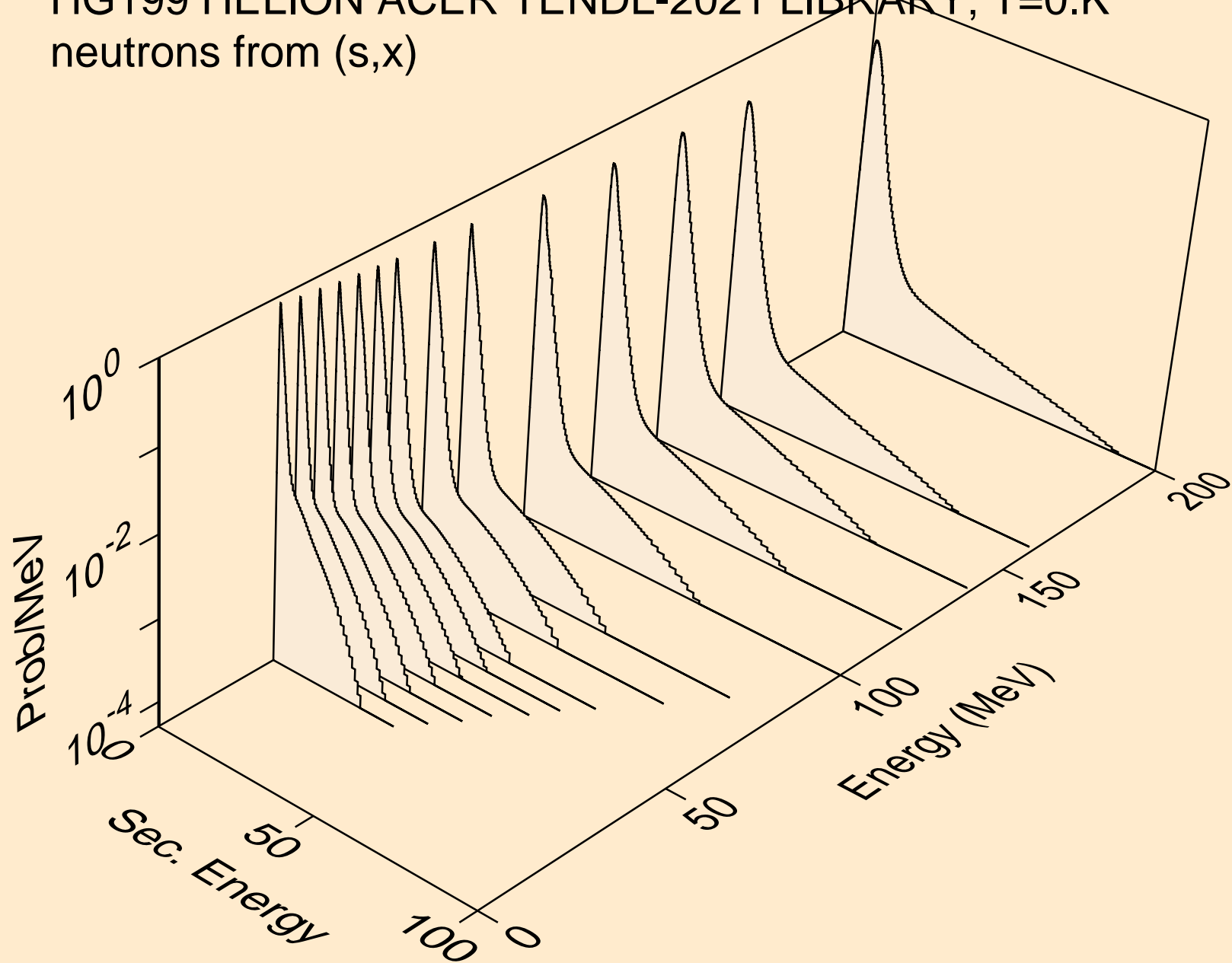


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n)

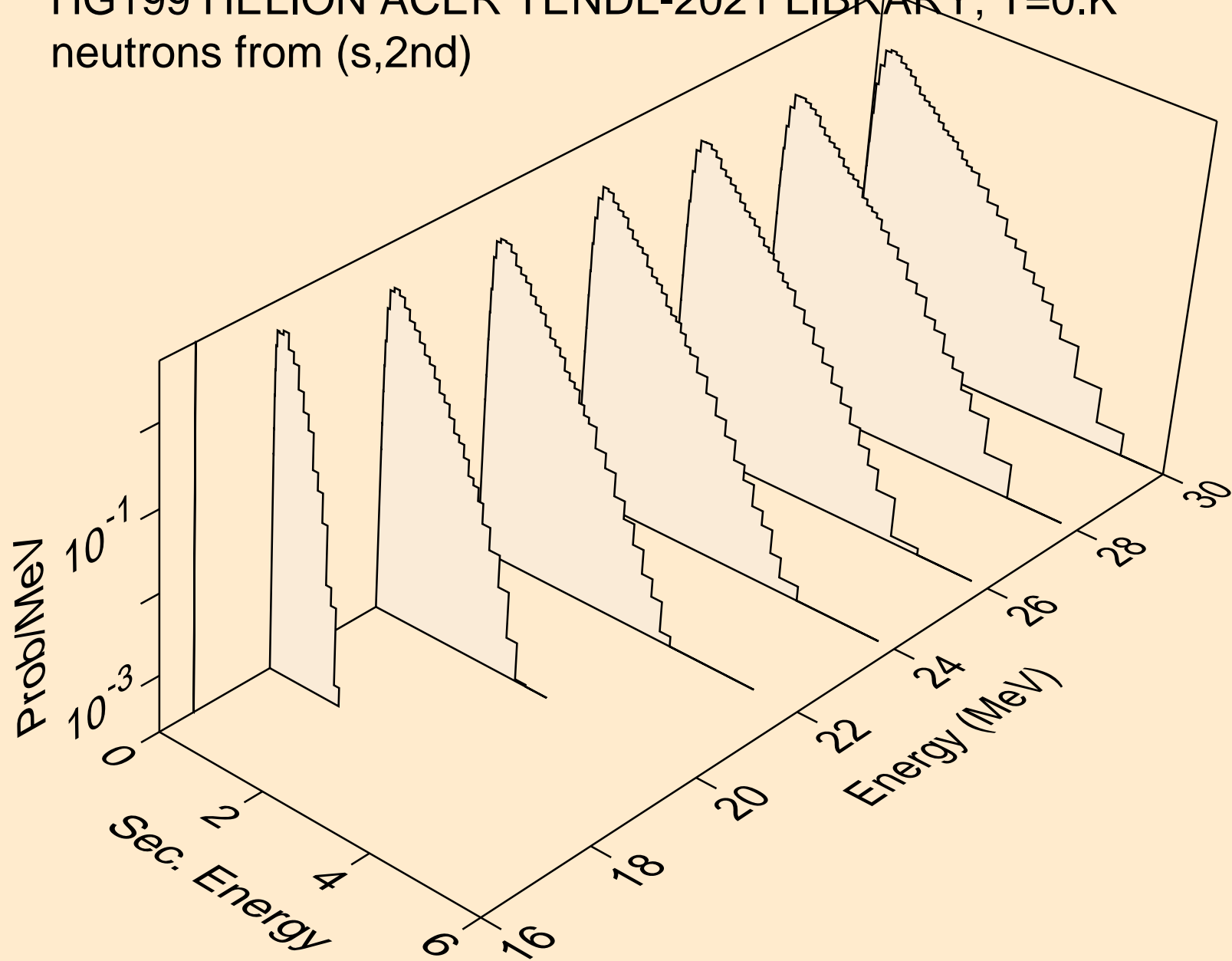




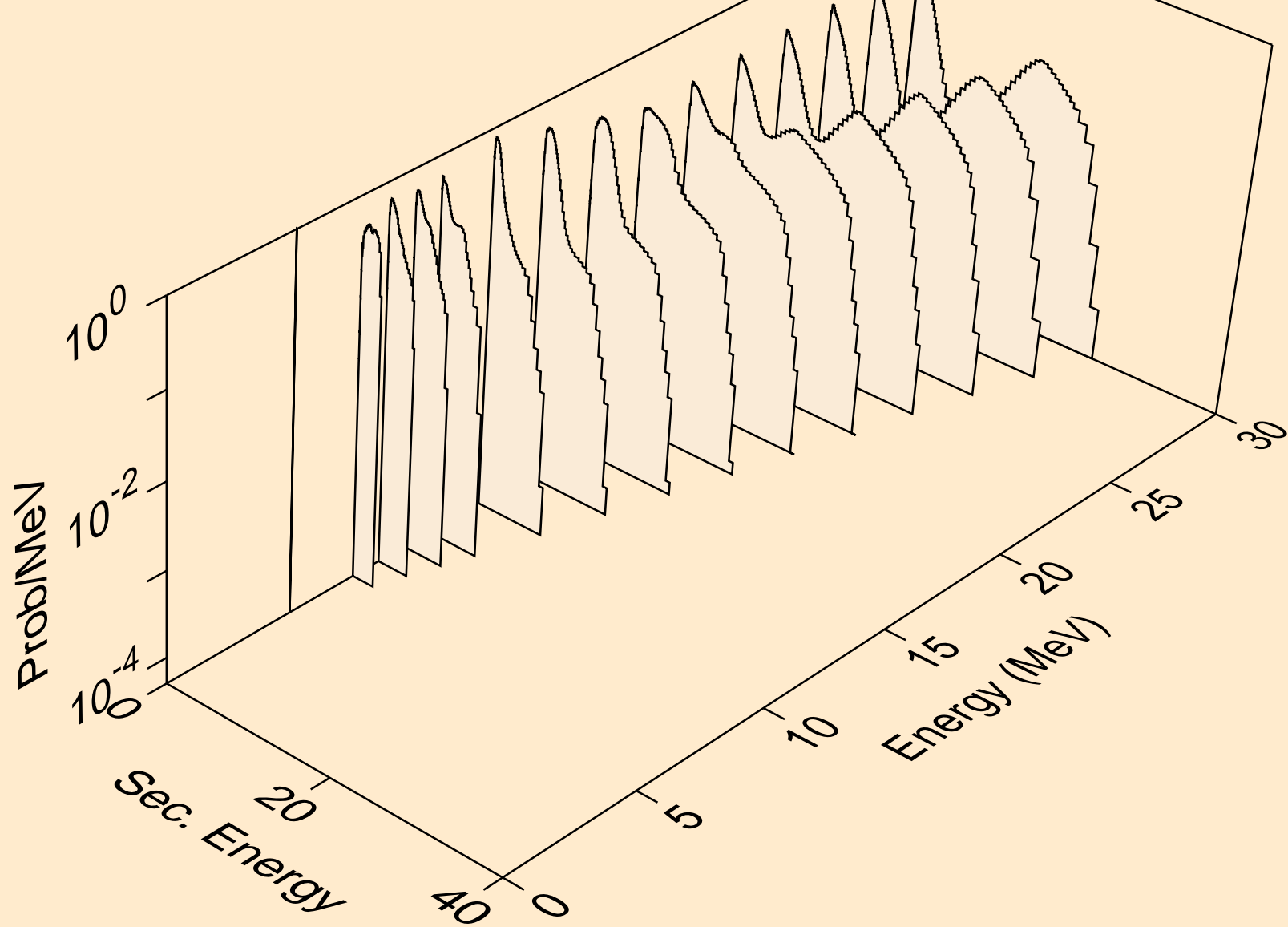
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neutrons from (s,x)



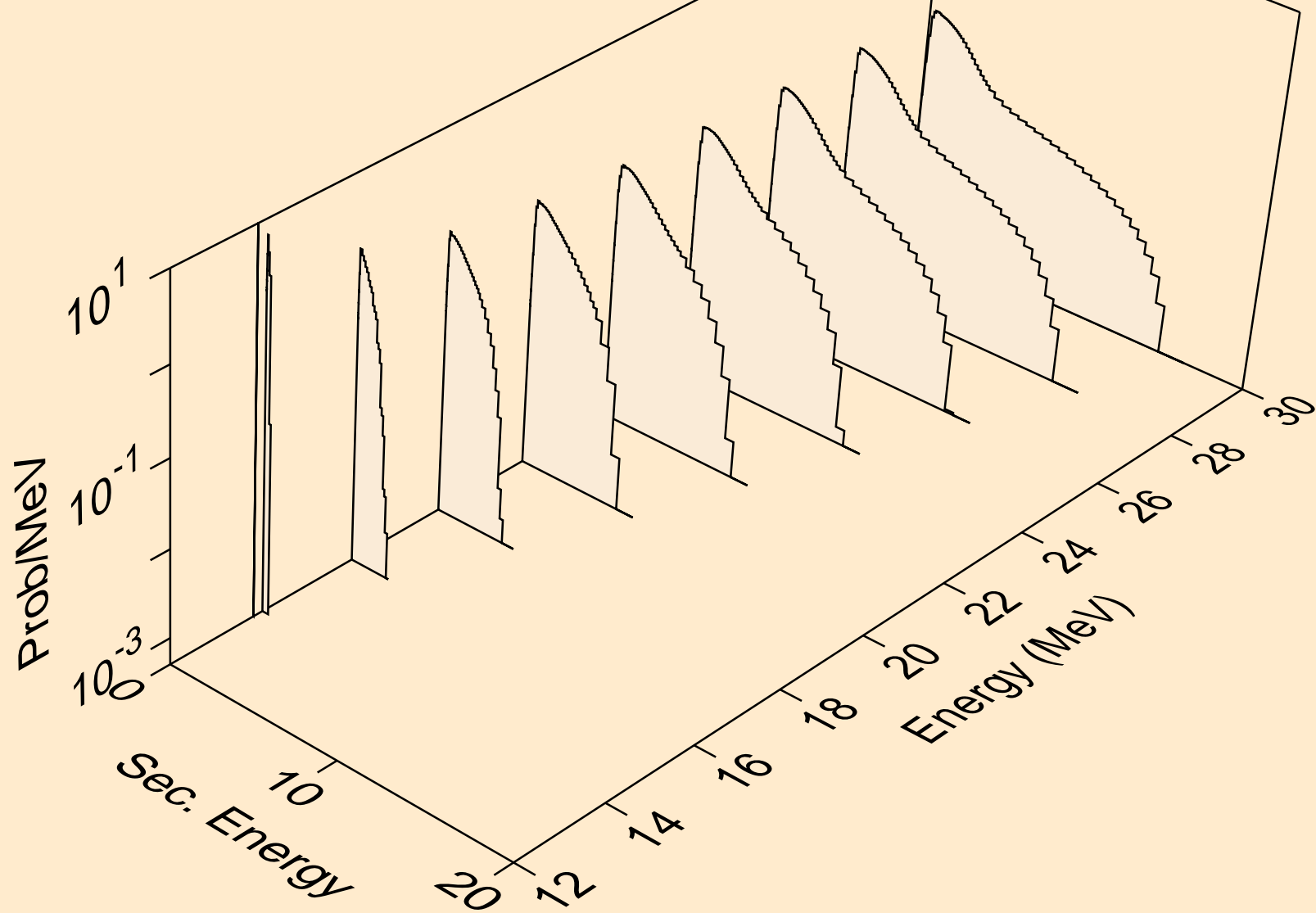
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neutrons from (s,2nd)



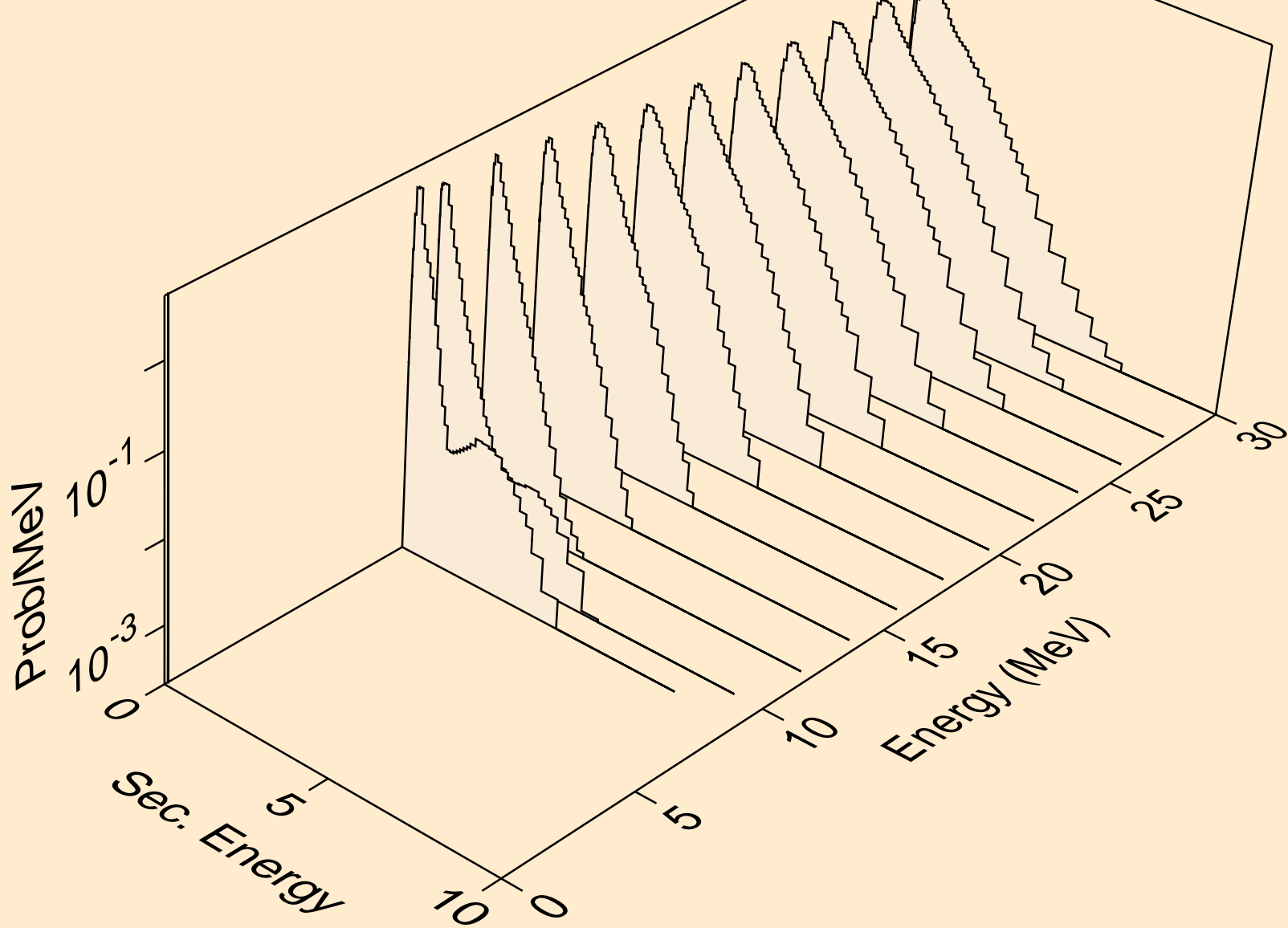
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neutrons from (s,2n)



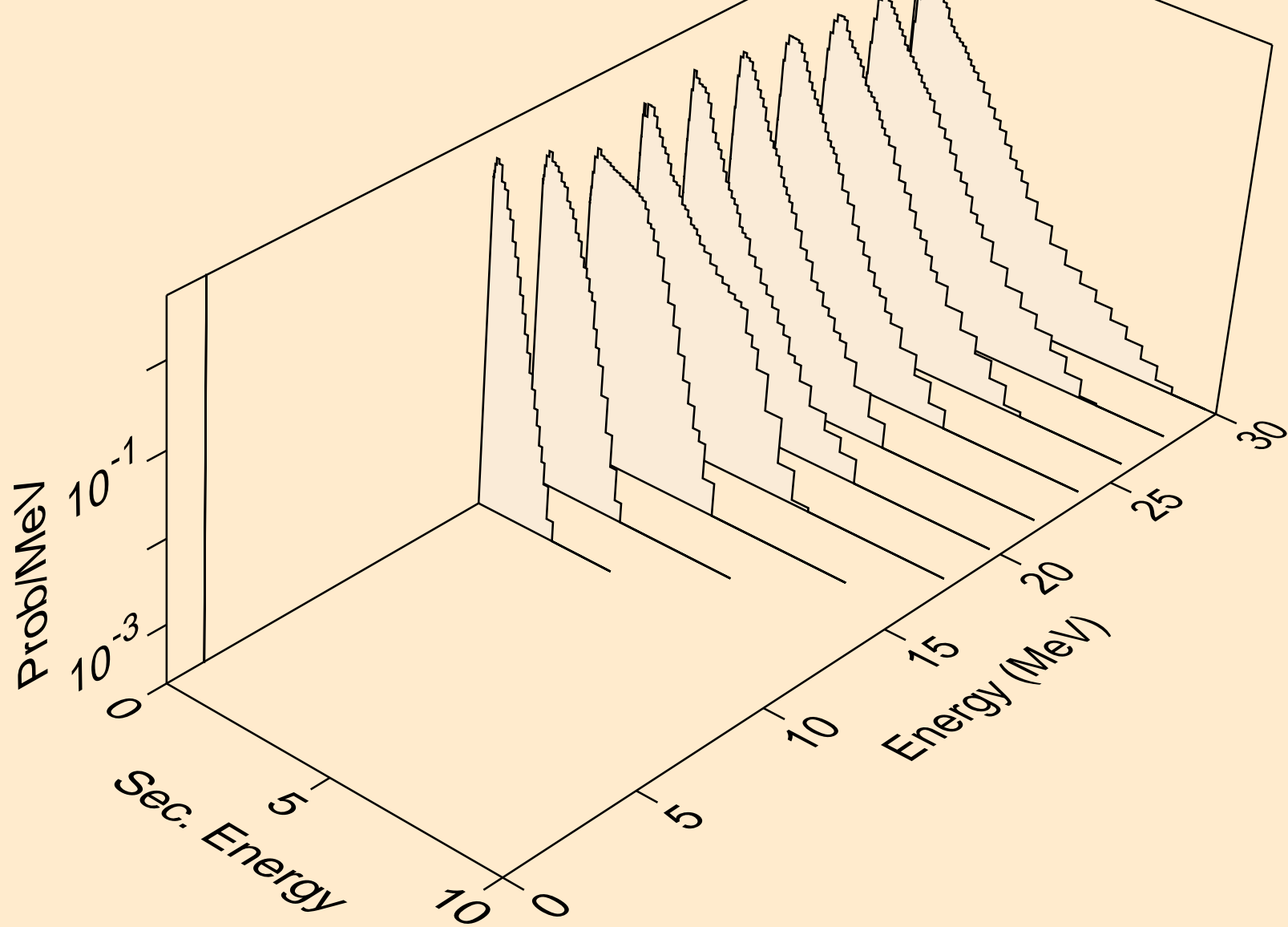
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3n)



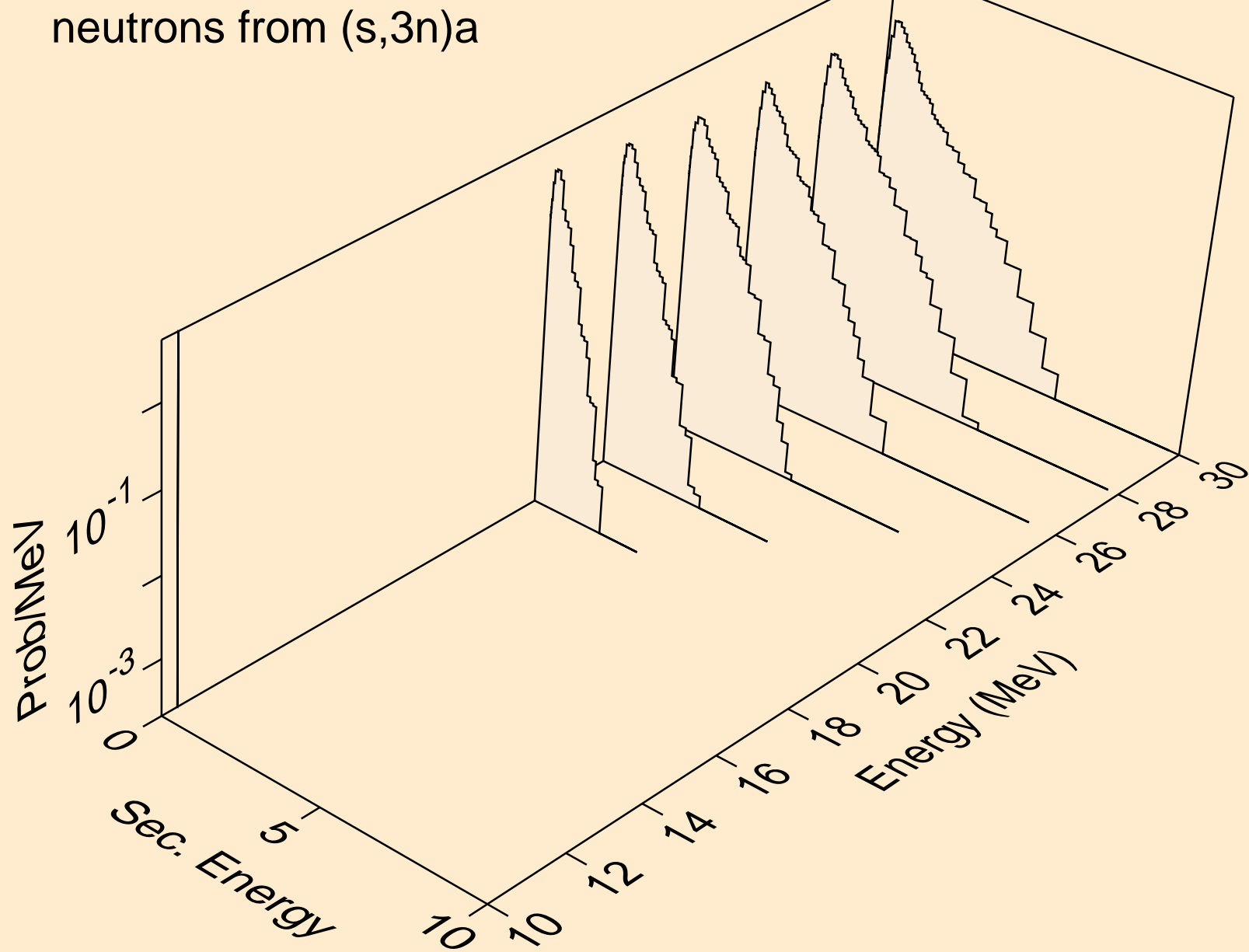
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)a



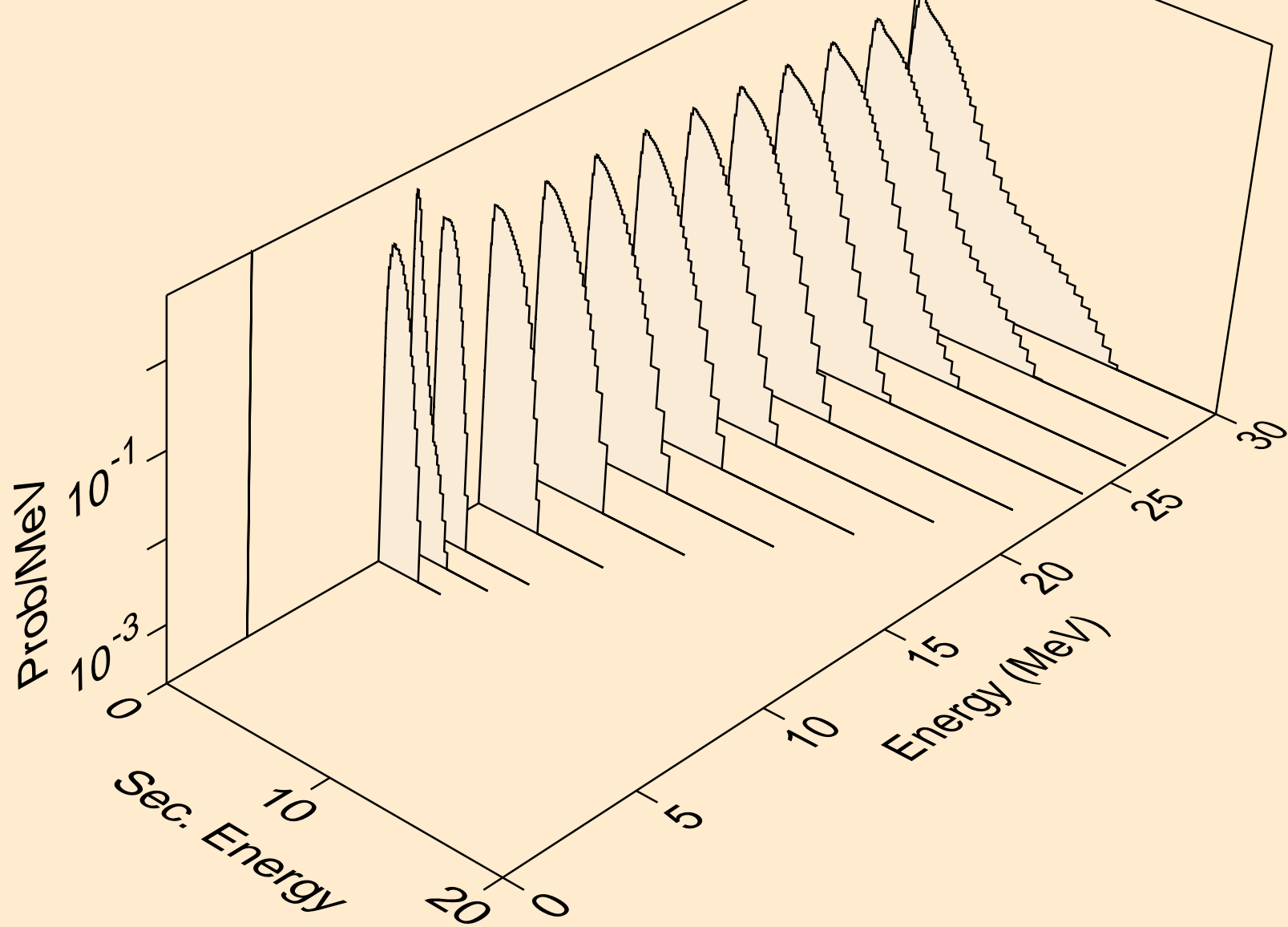
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,2n)a



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3n)a

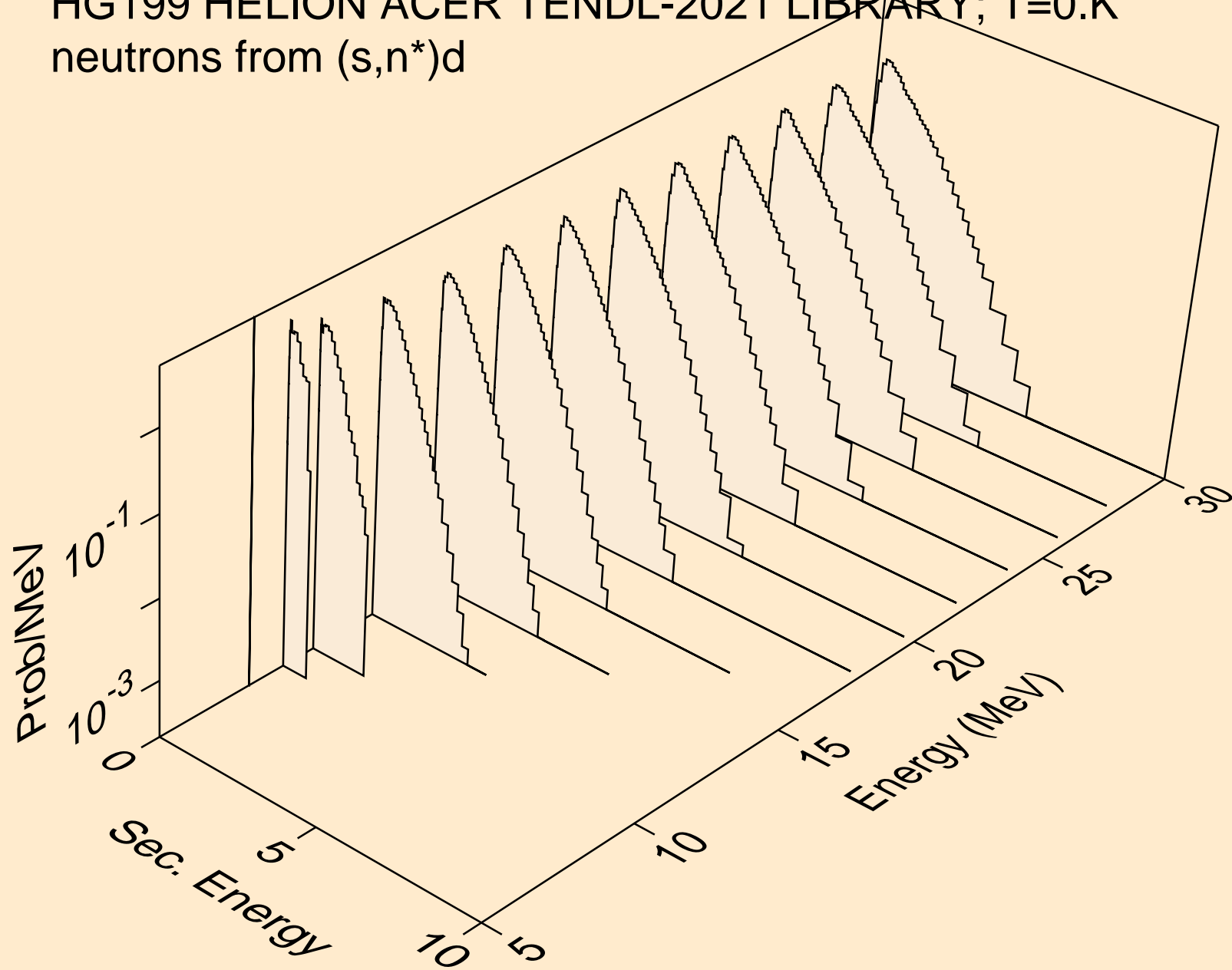


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neutrons from (s,n\*)p

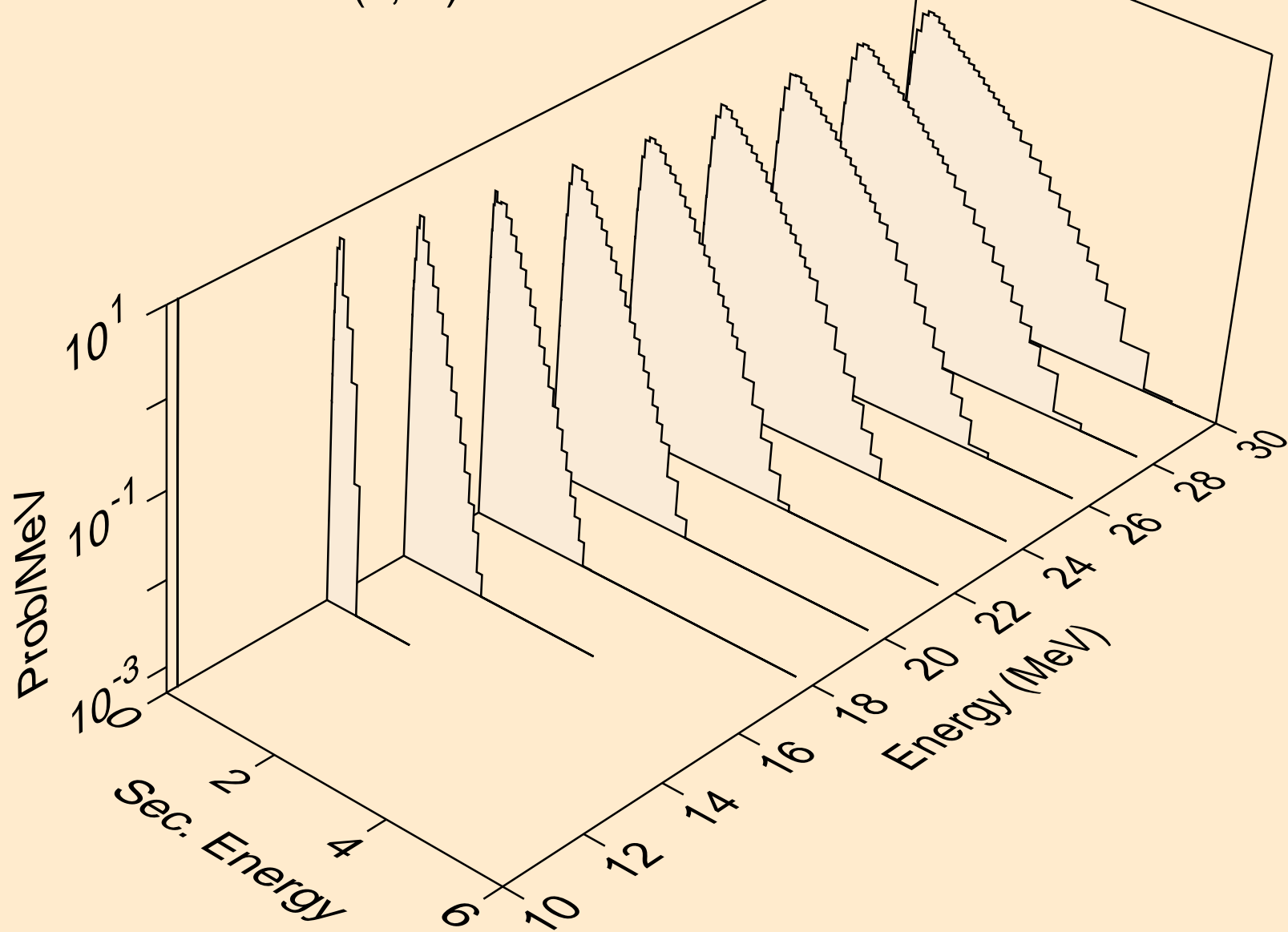




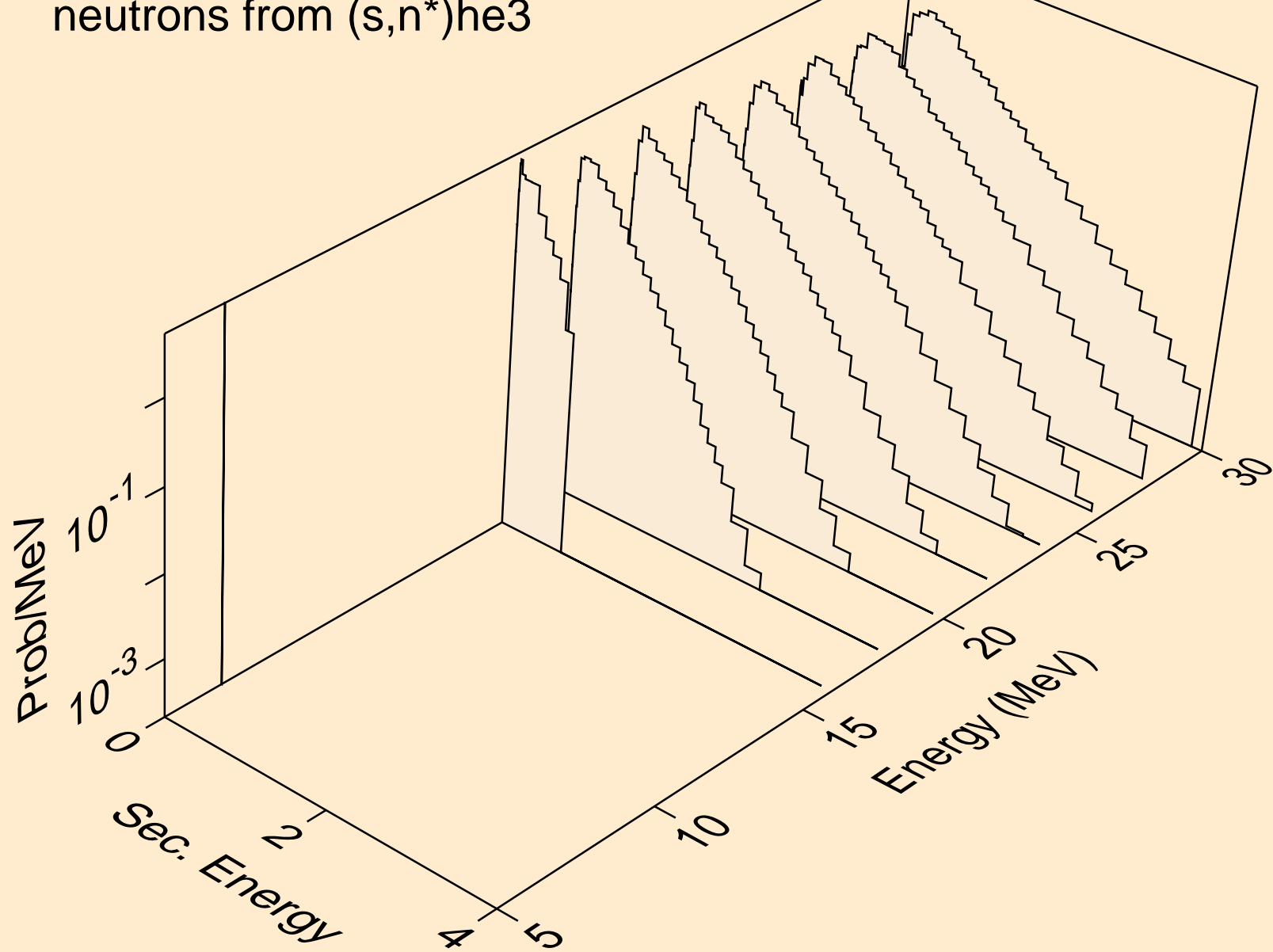
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)d



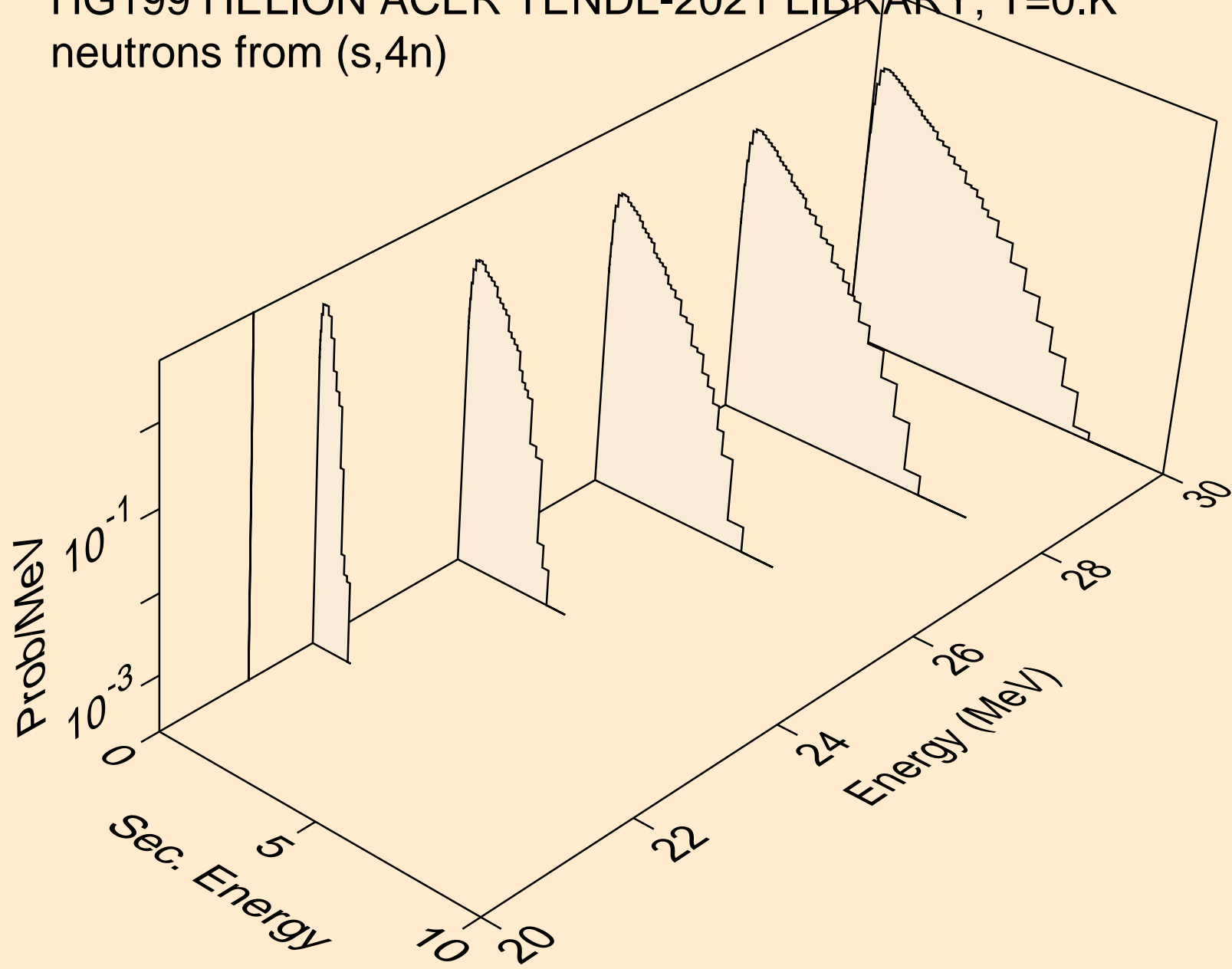
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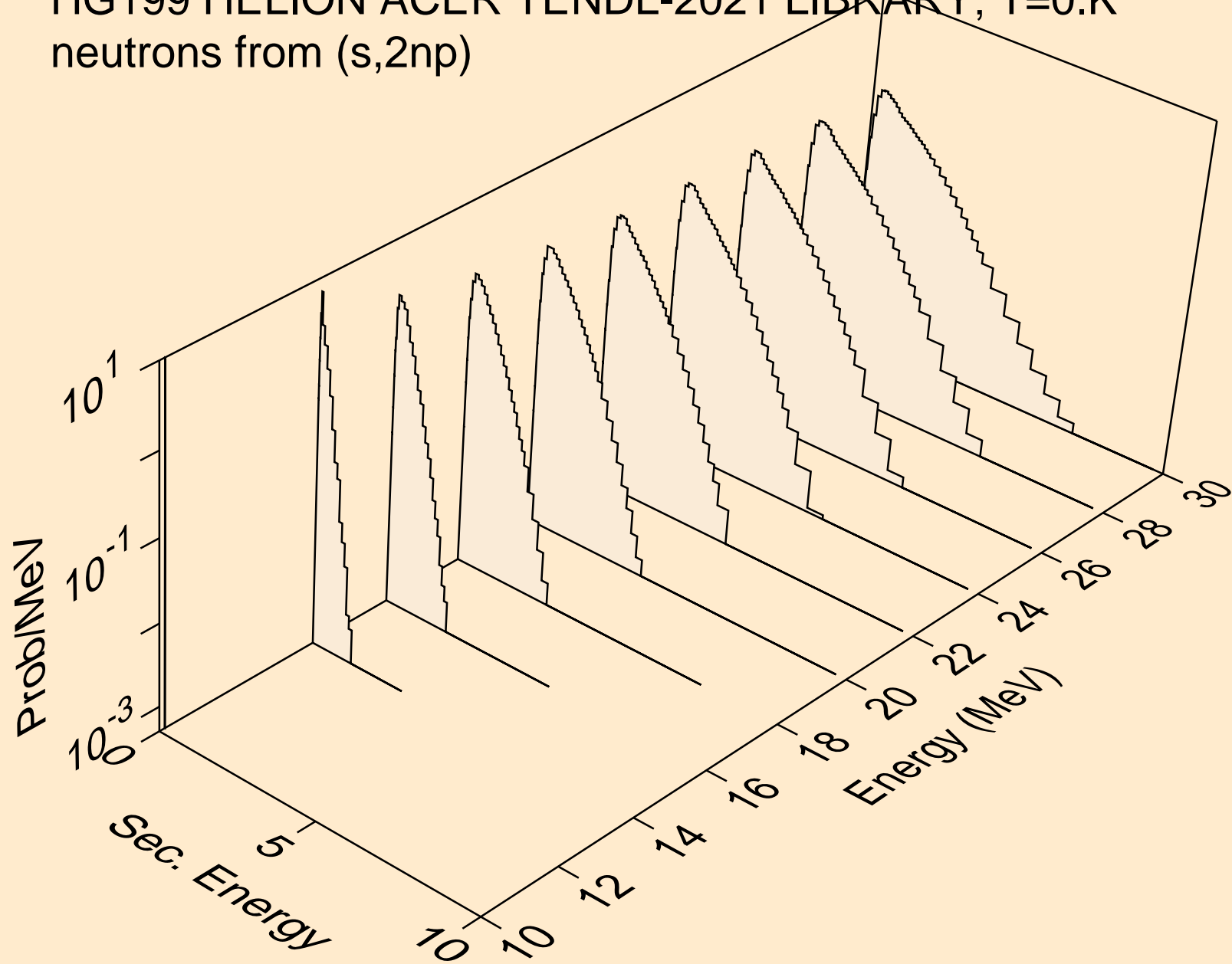
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



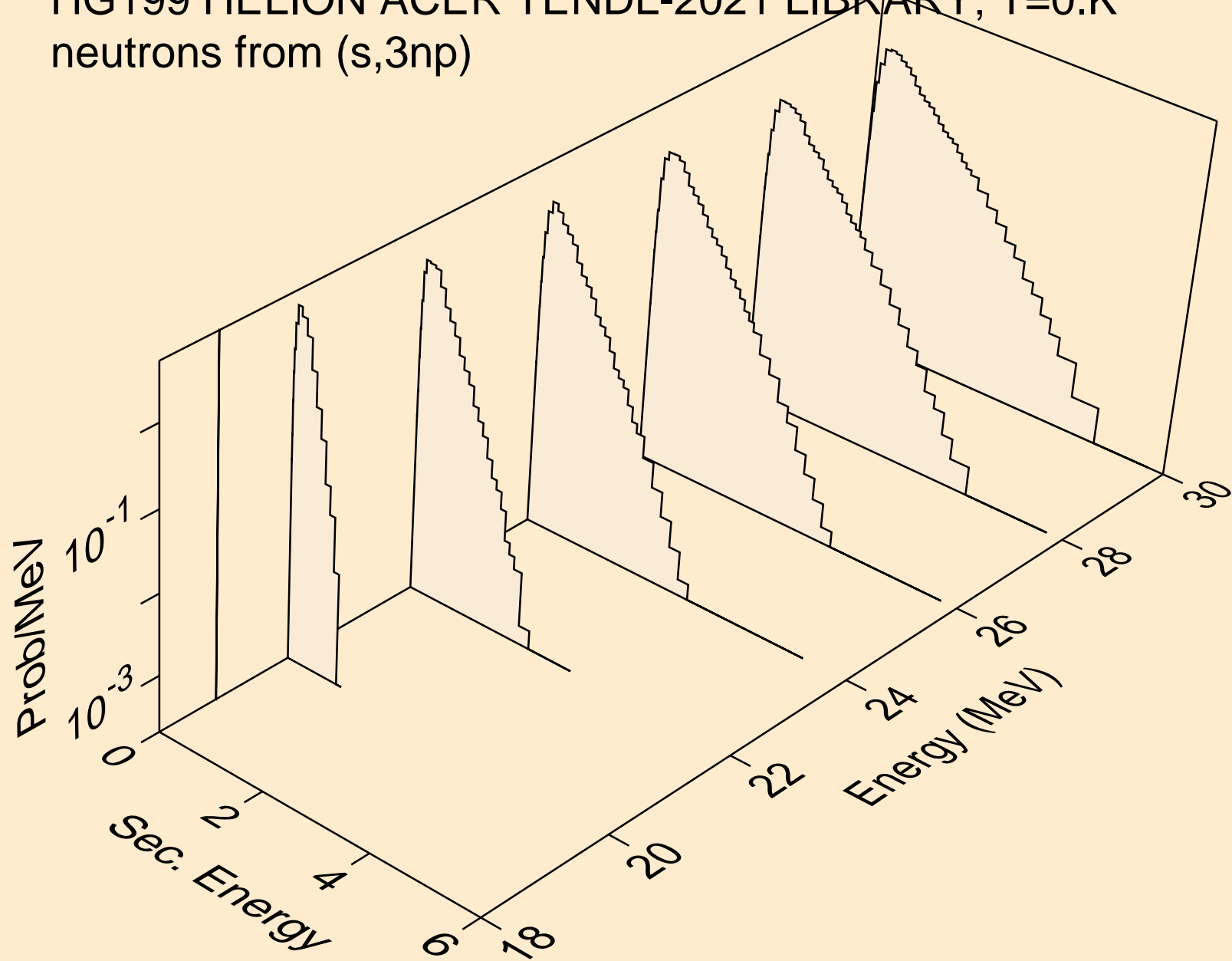
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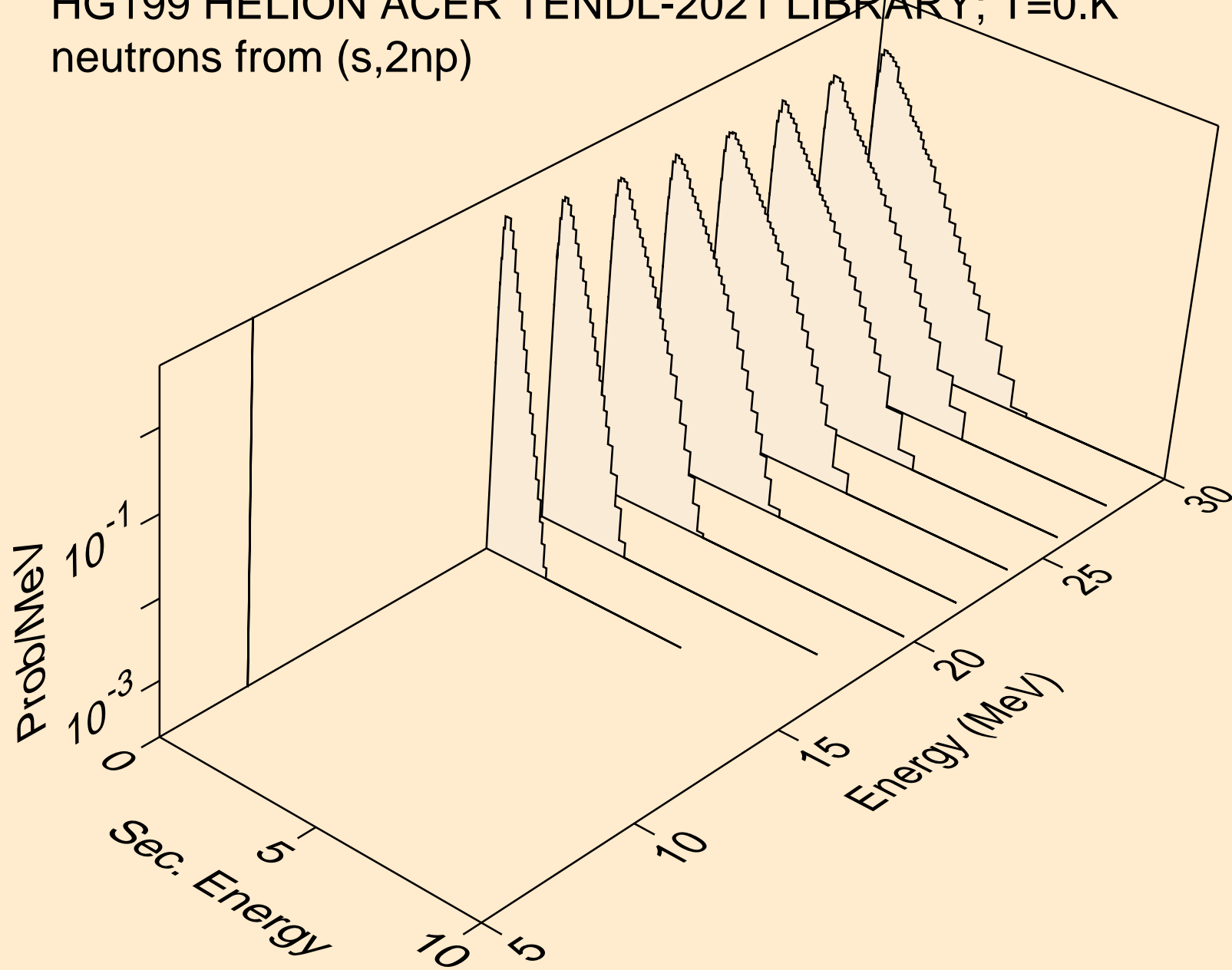
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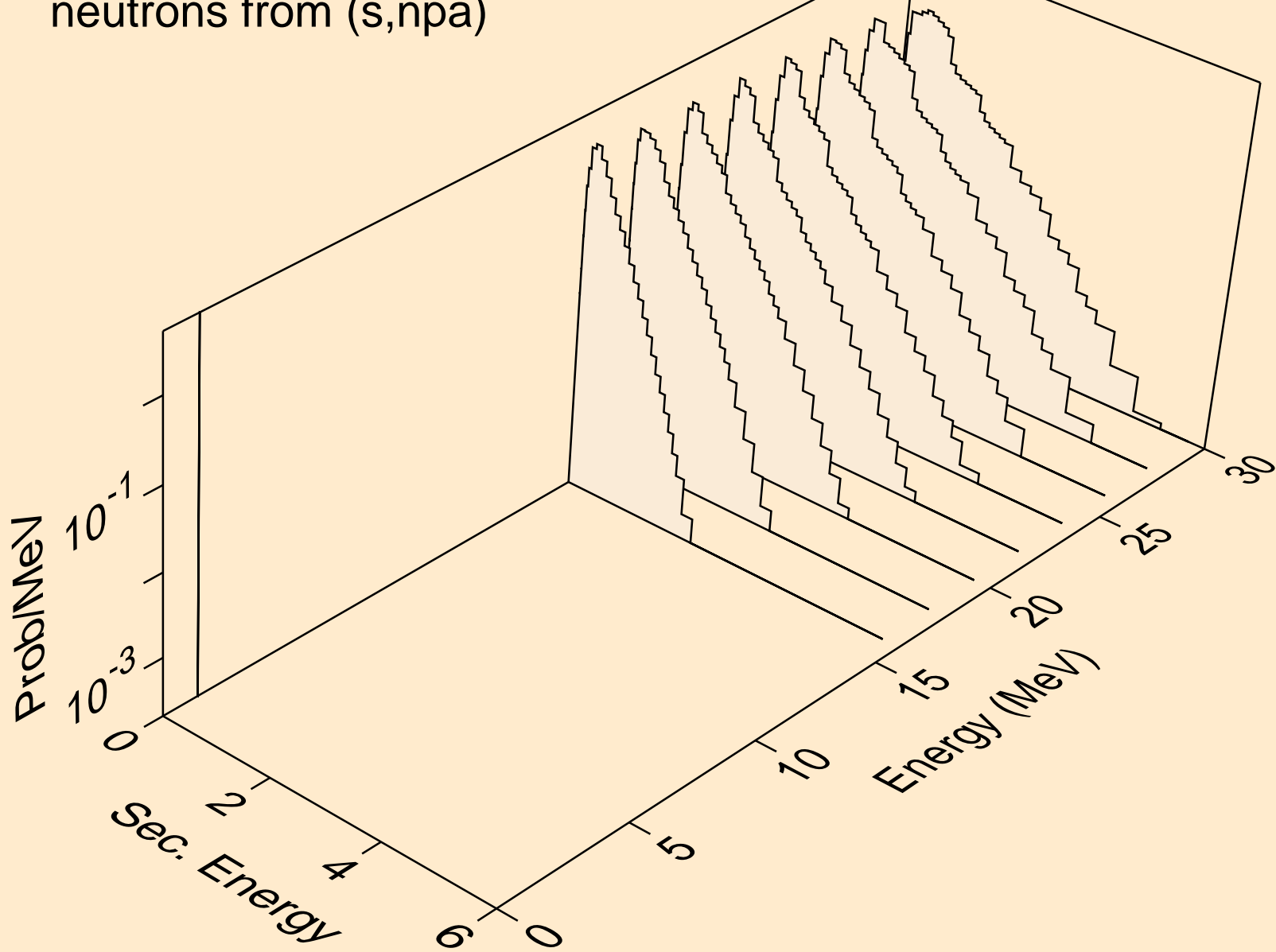
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3np)



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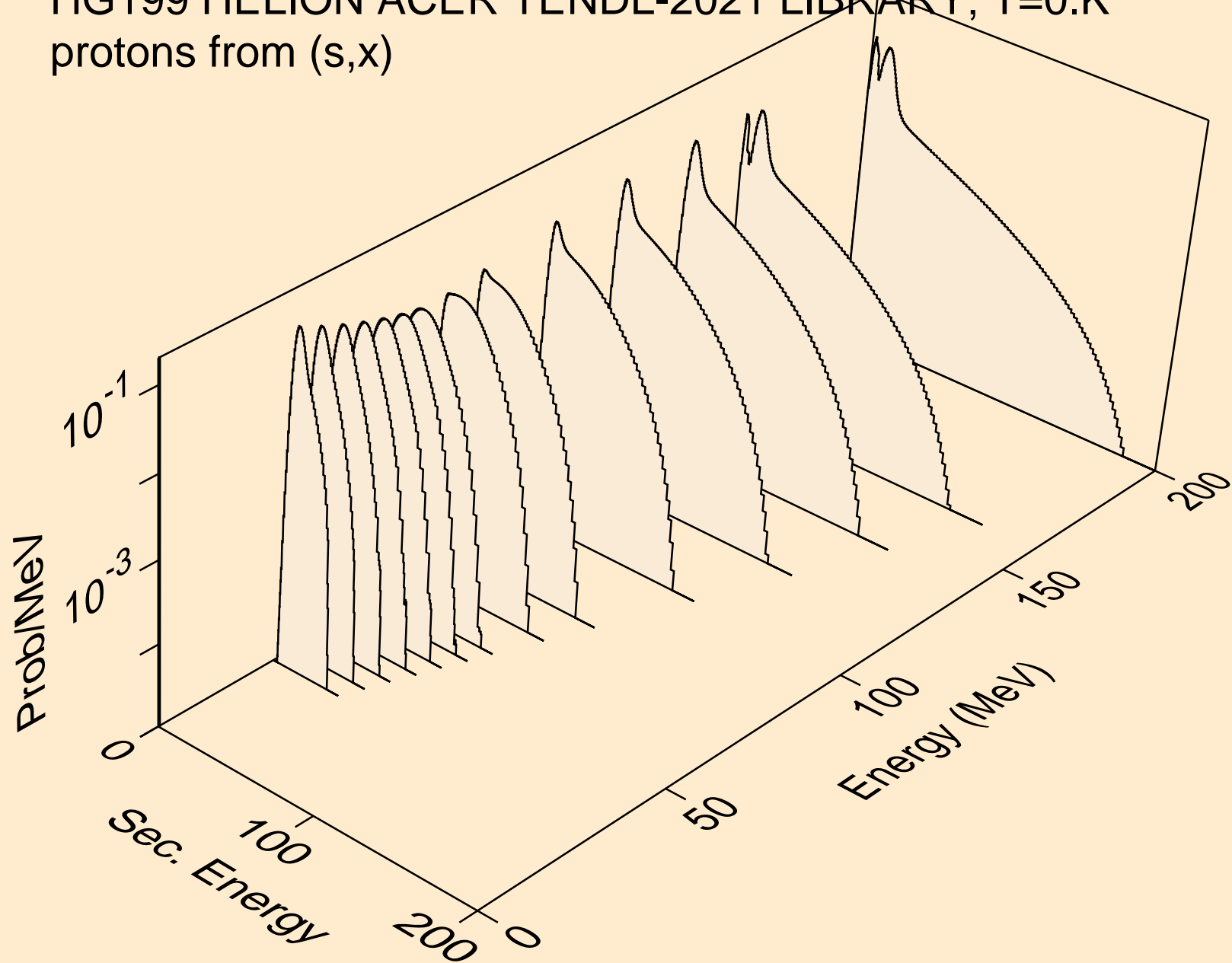


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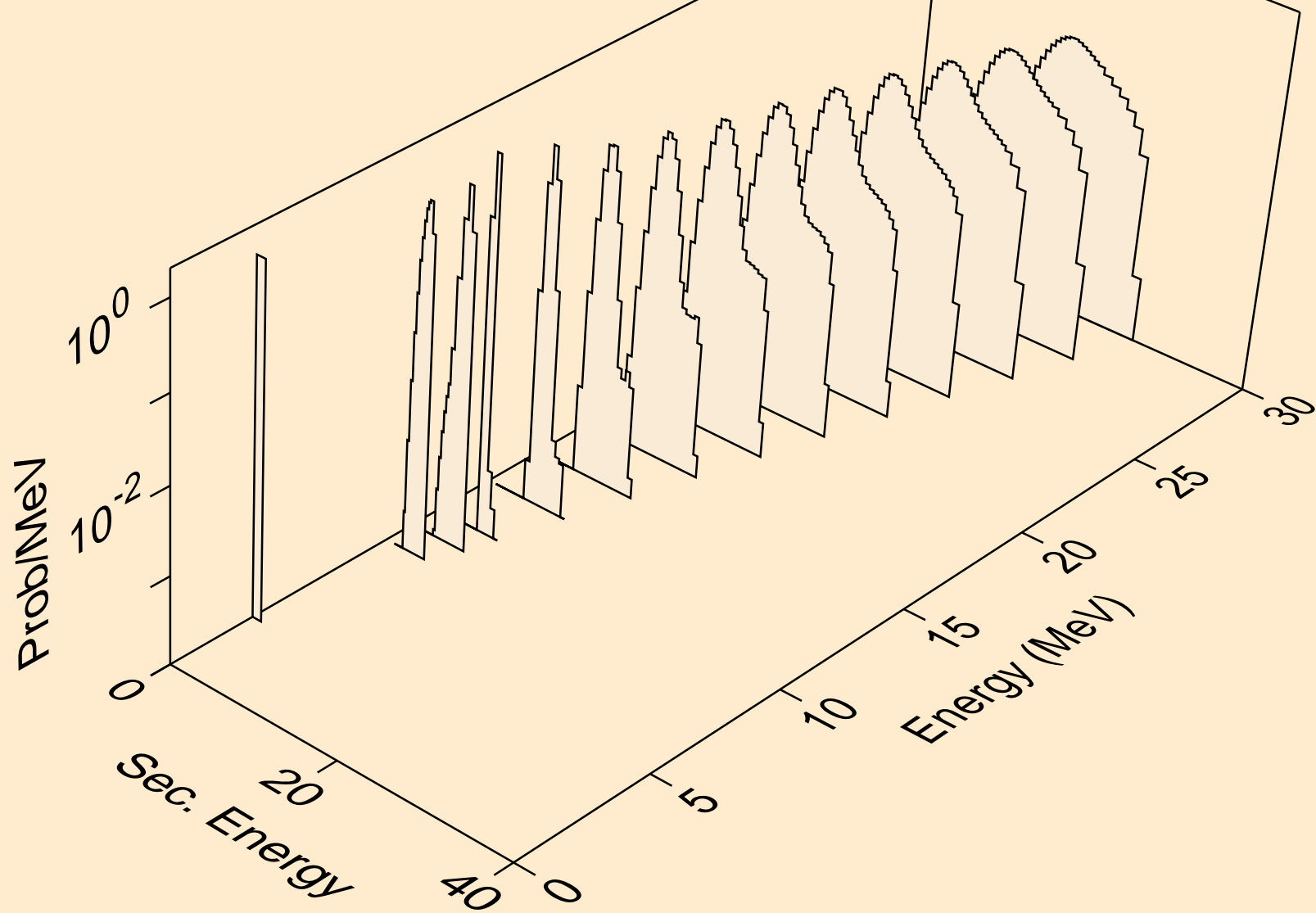




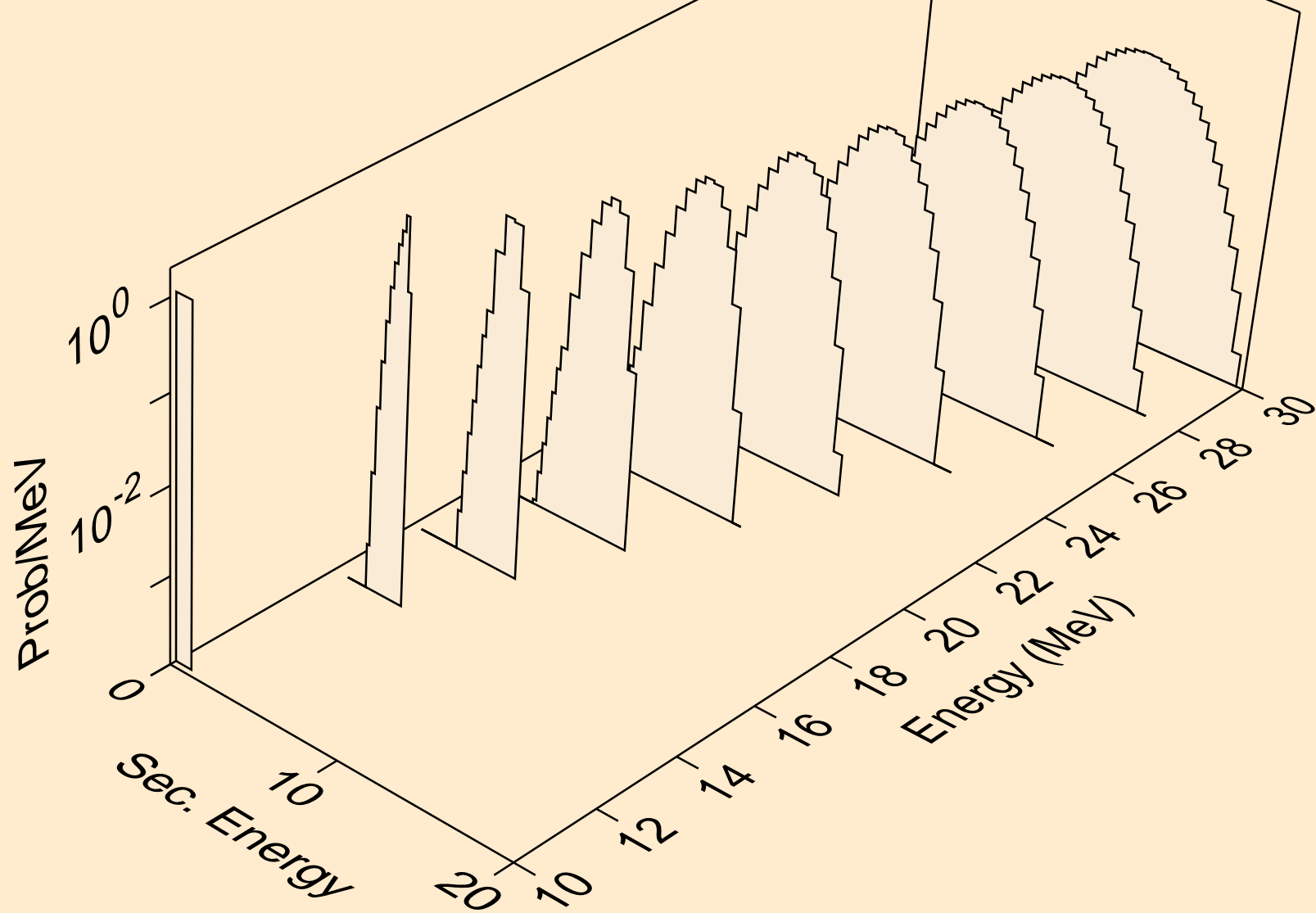
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protons from (s,x)



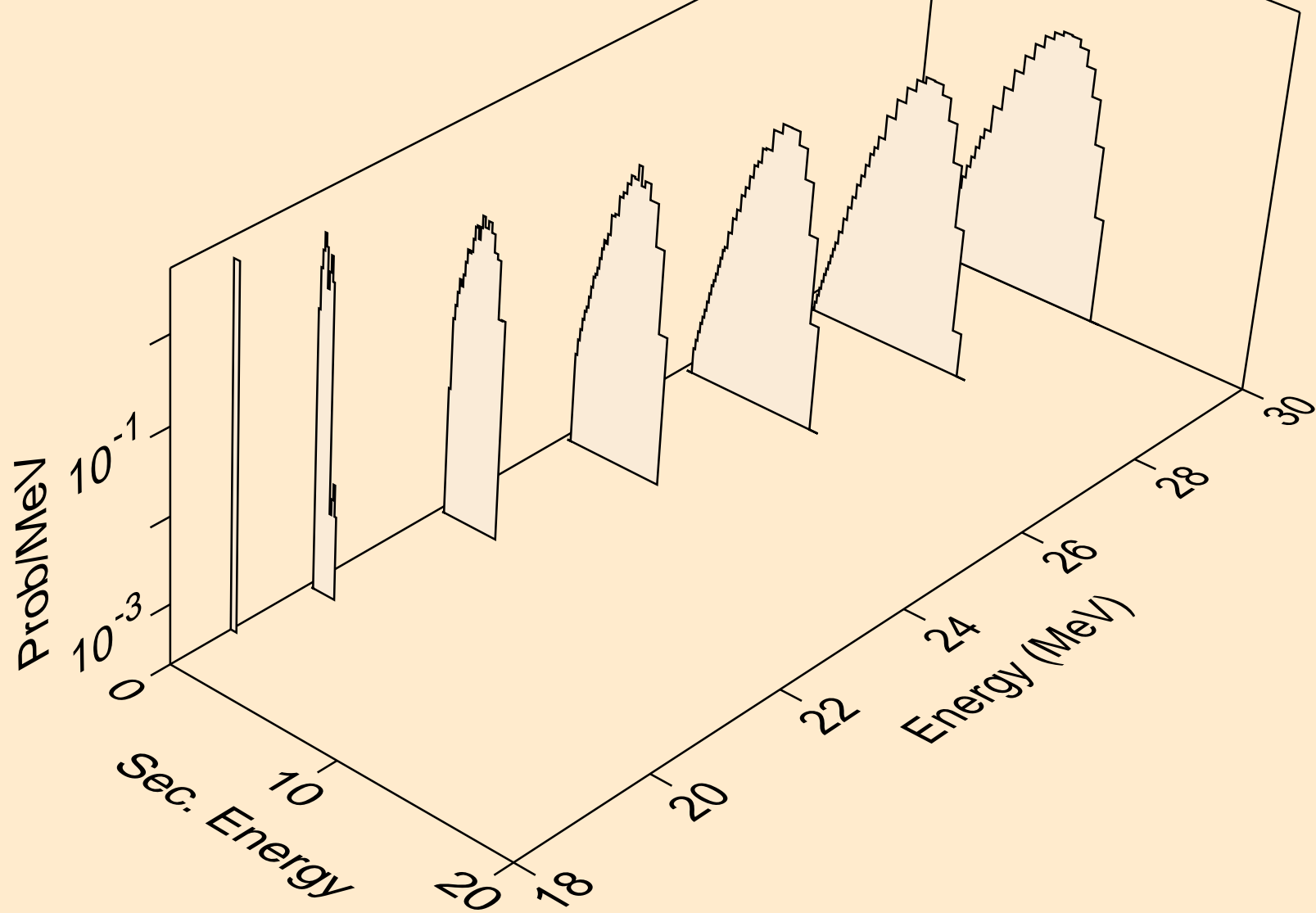
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protons from (s,n\*)p



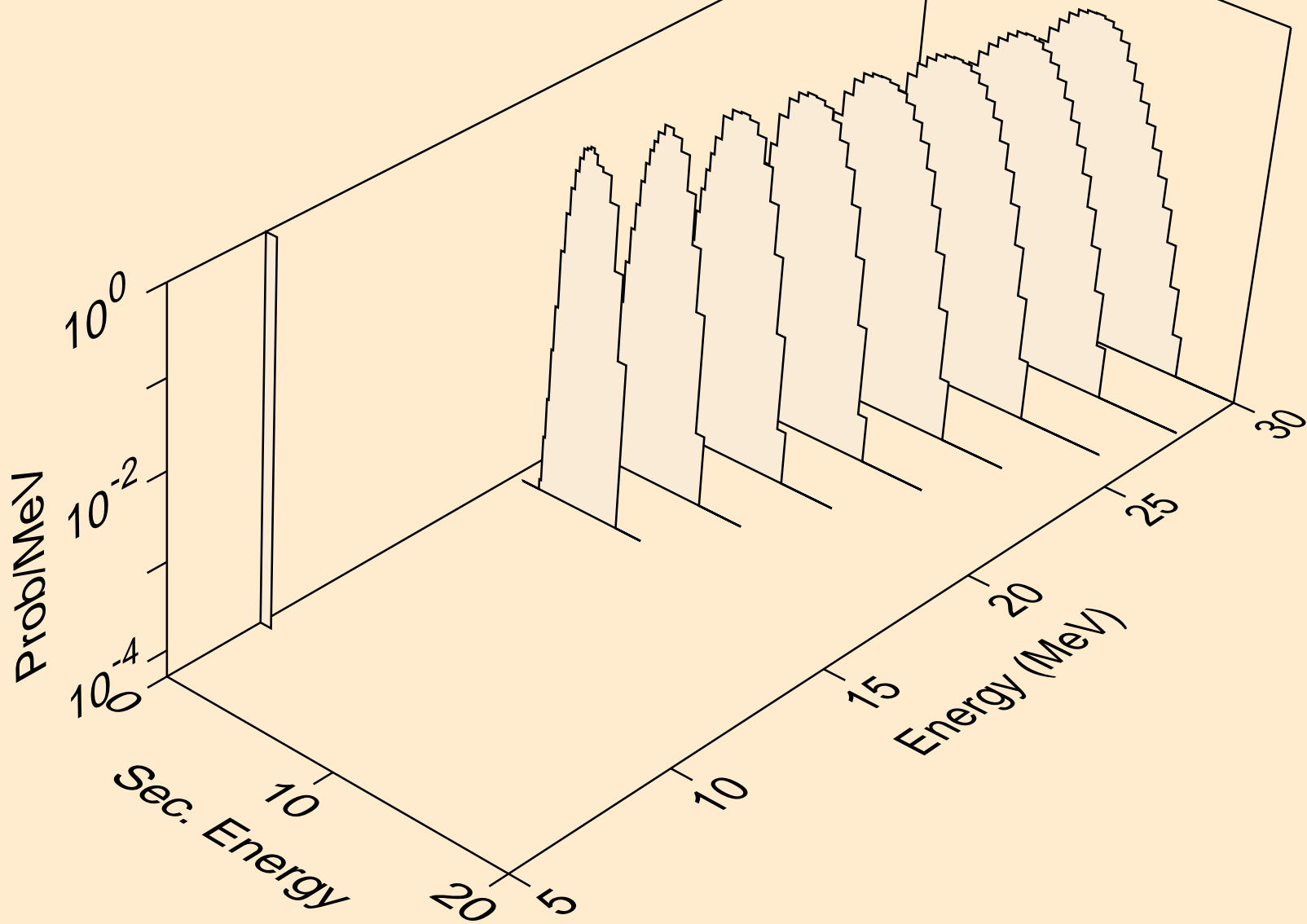
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protons from (s,2np)



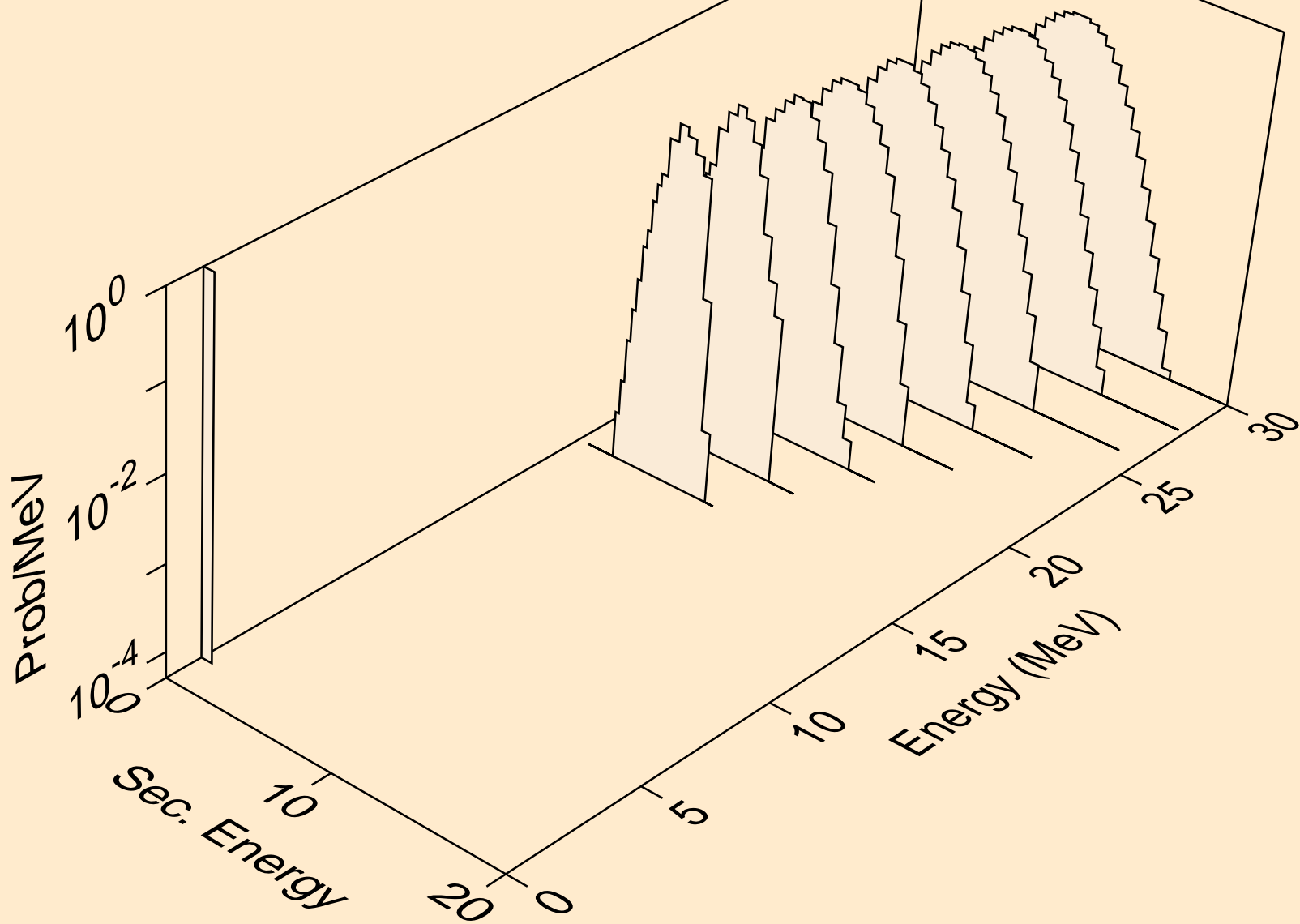
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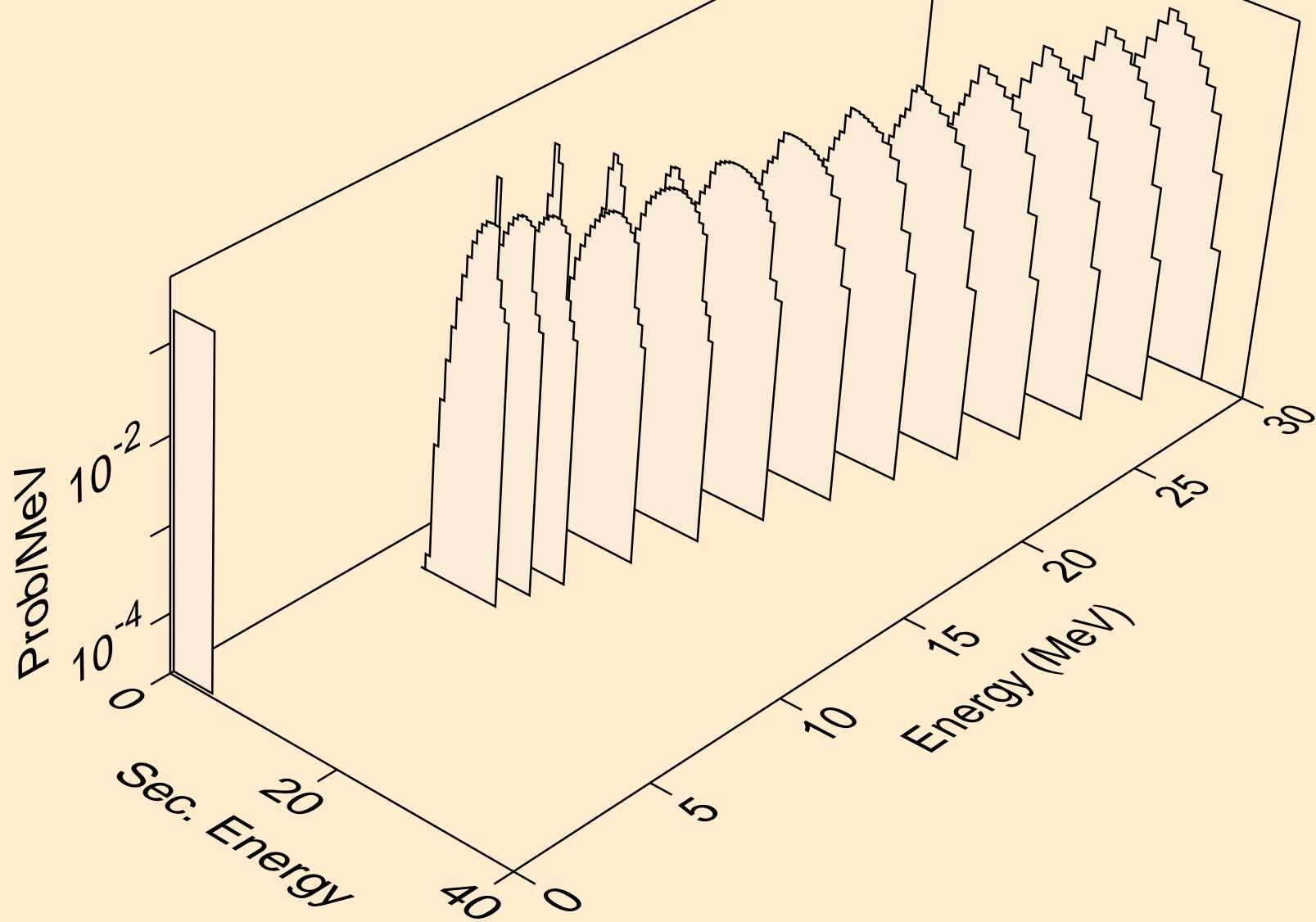
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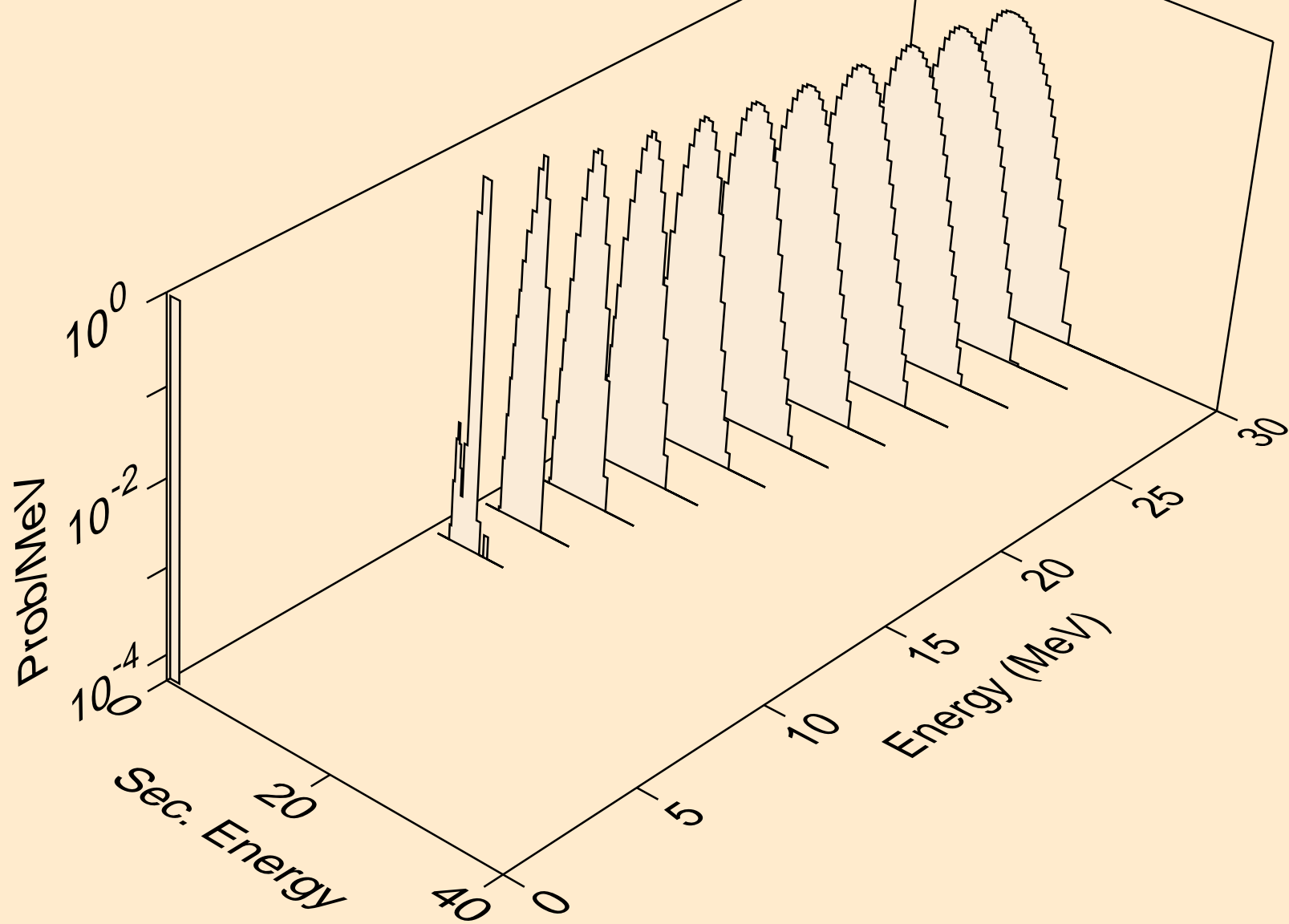
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,npa)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,p)

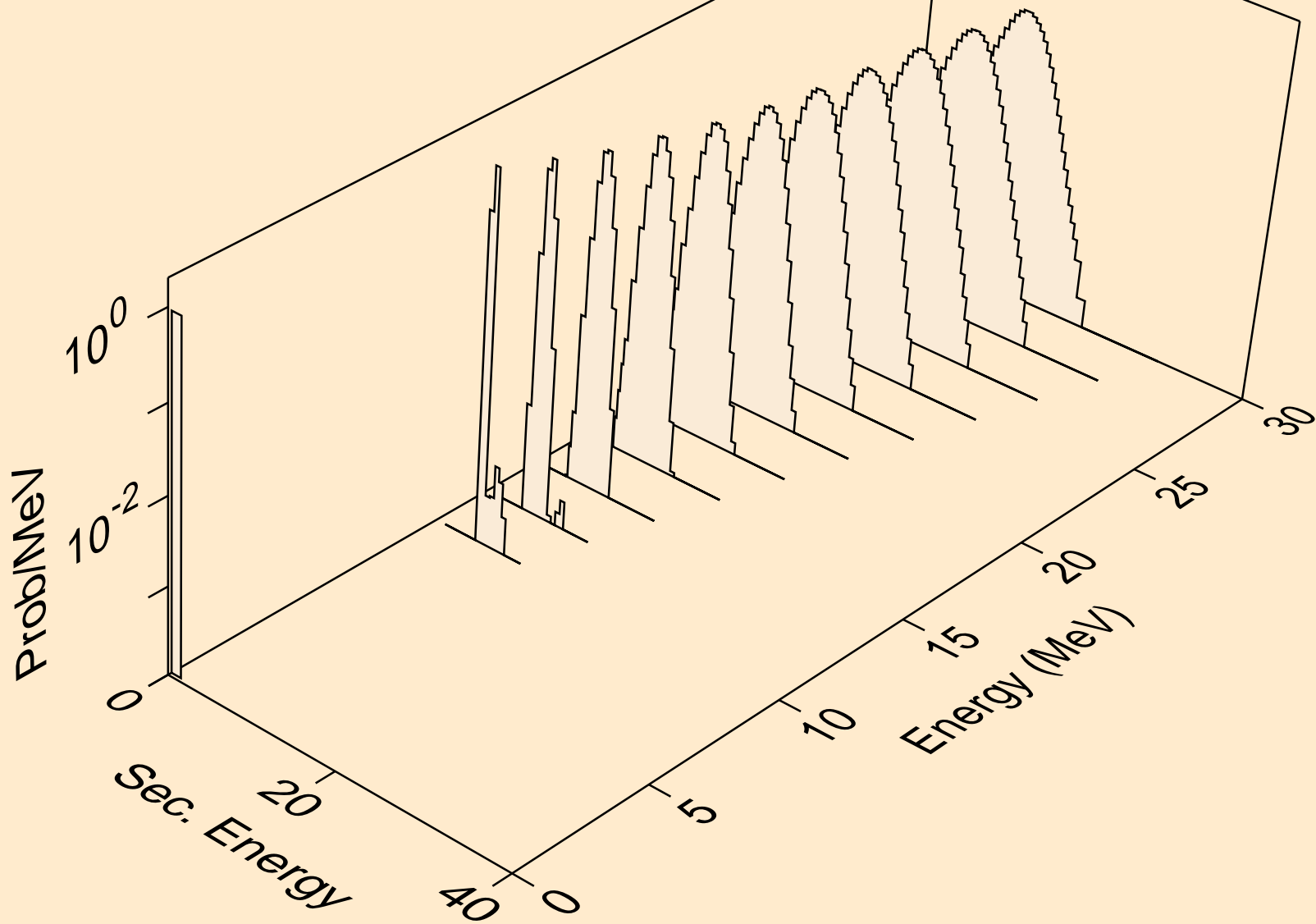


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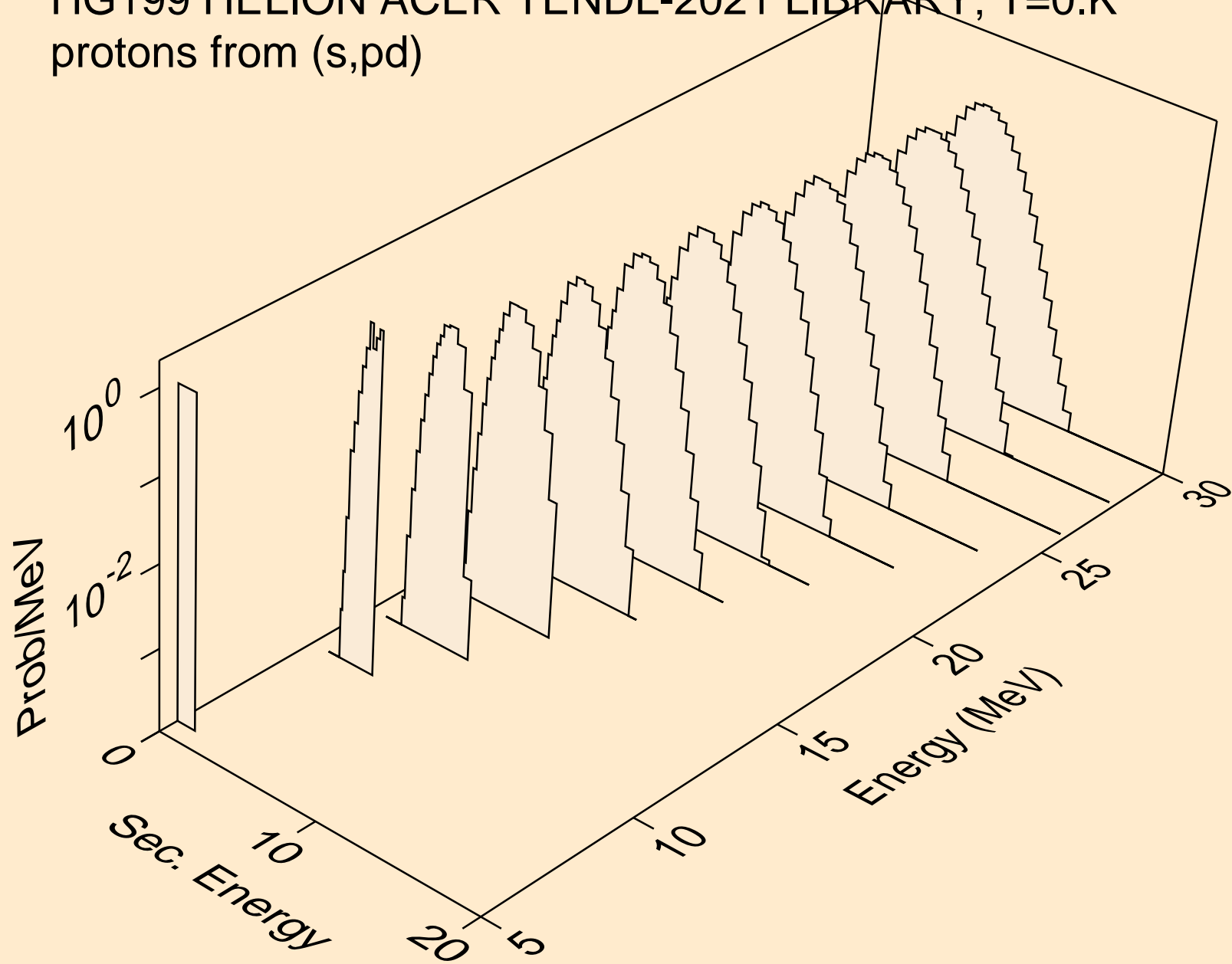




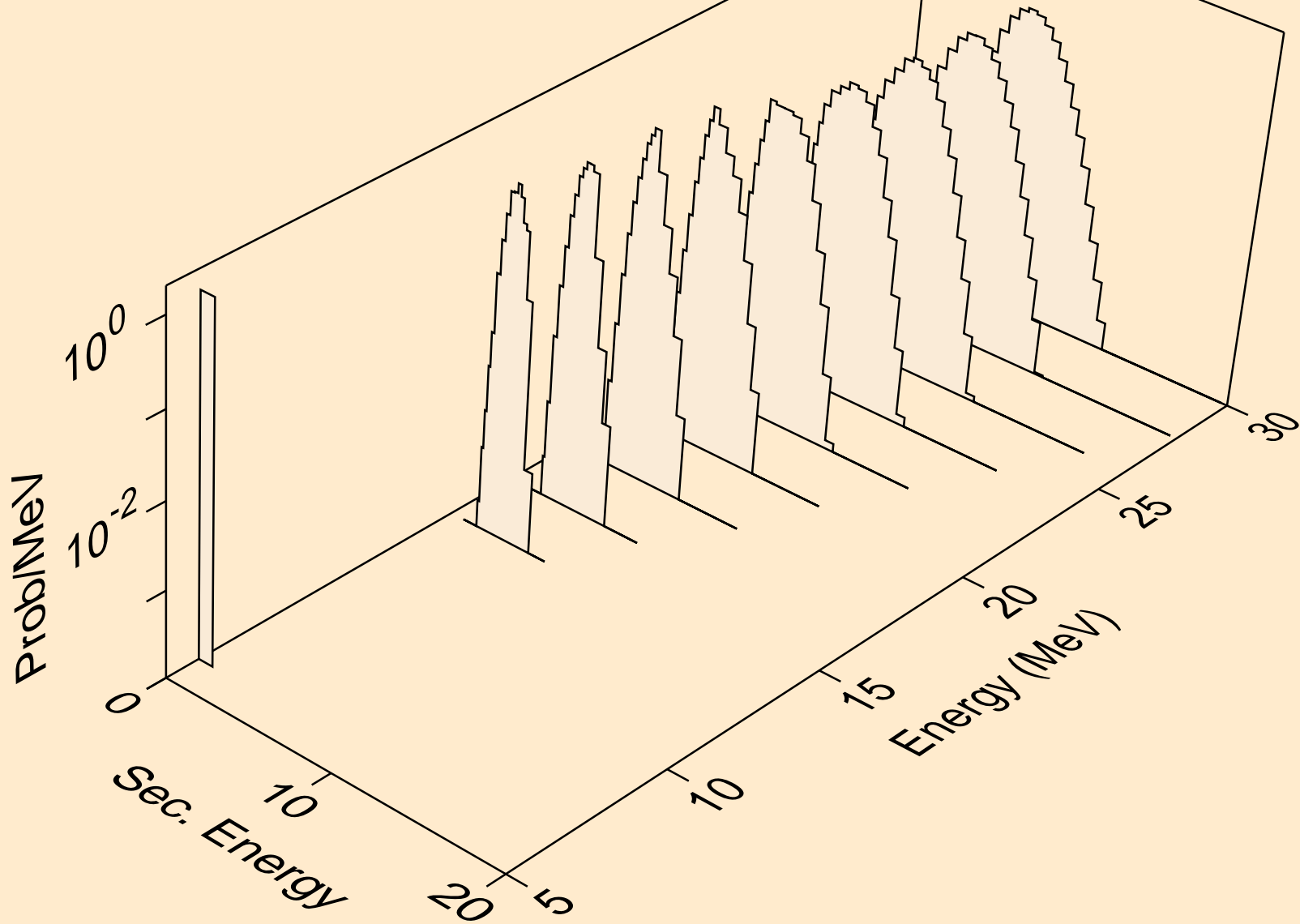
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protons from (s,pa)



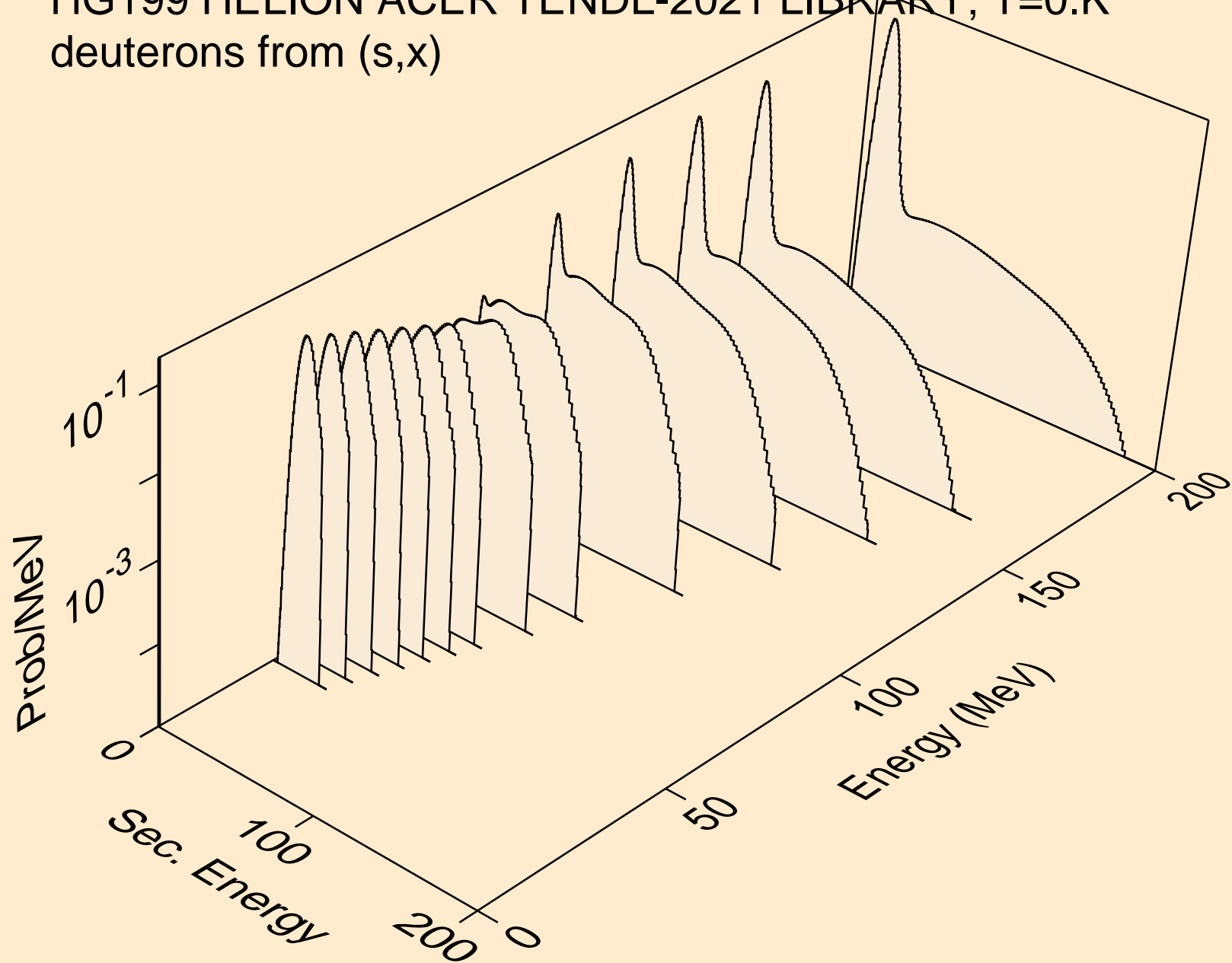
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protons from (s,pd)



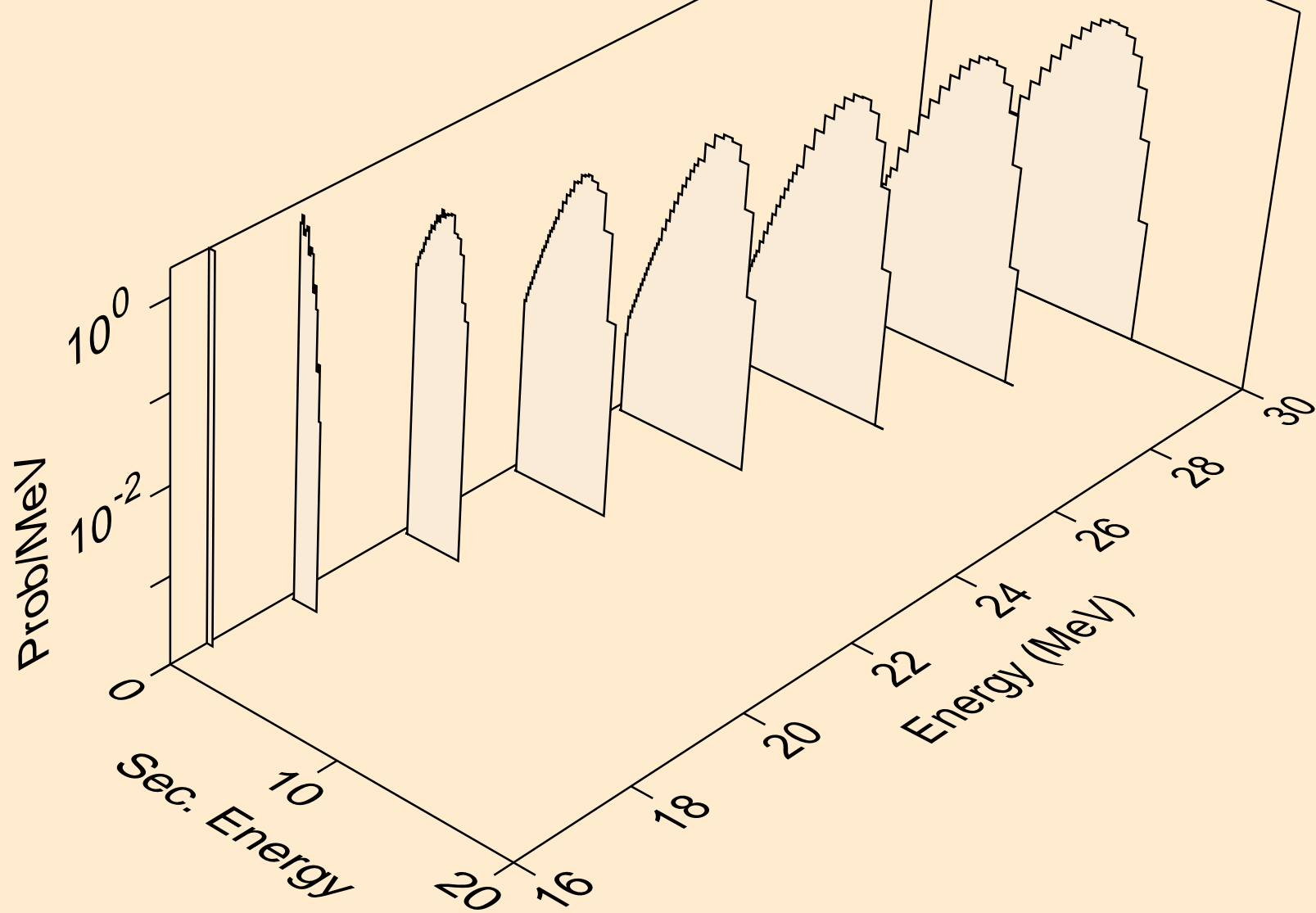
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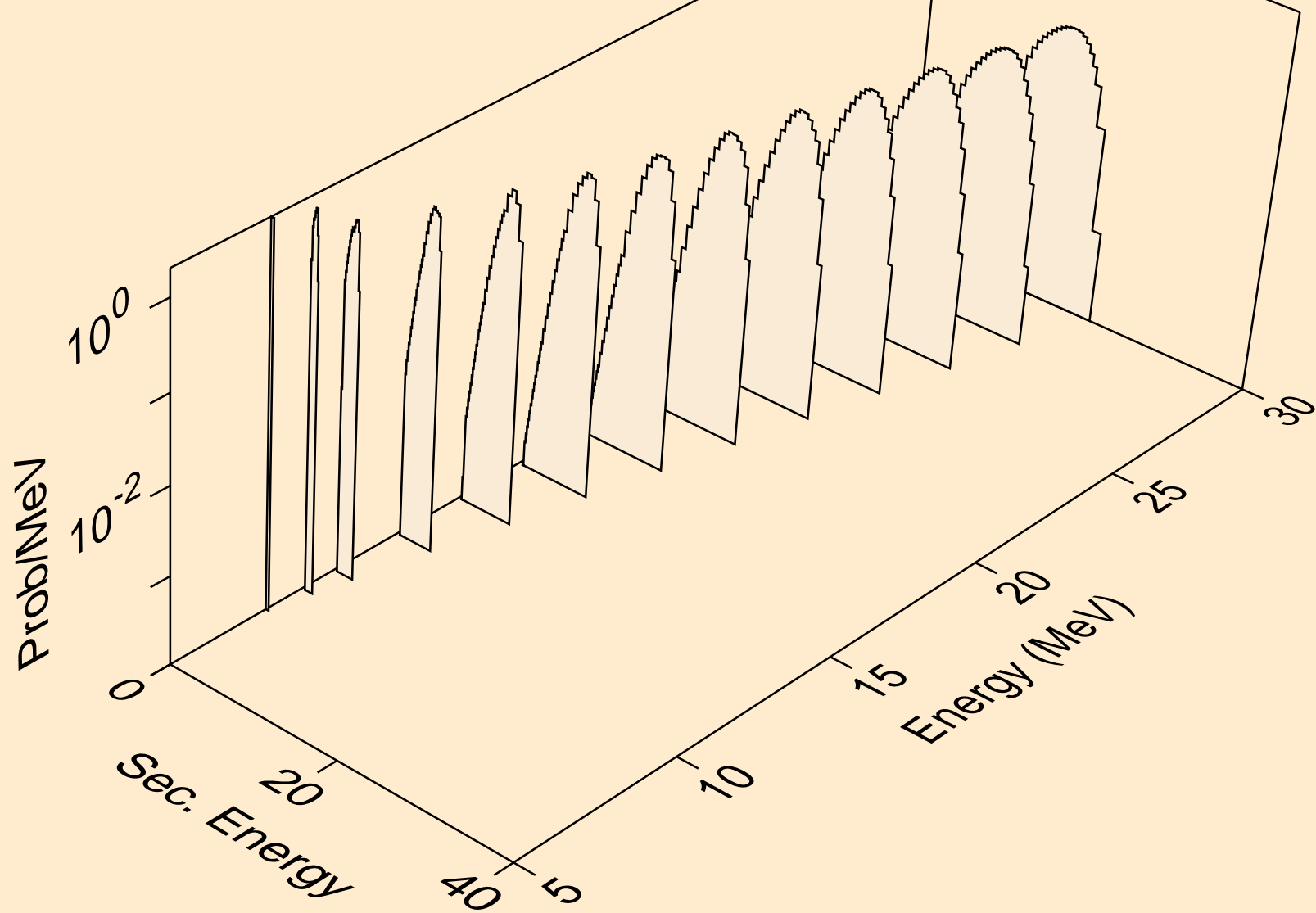
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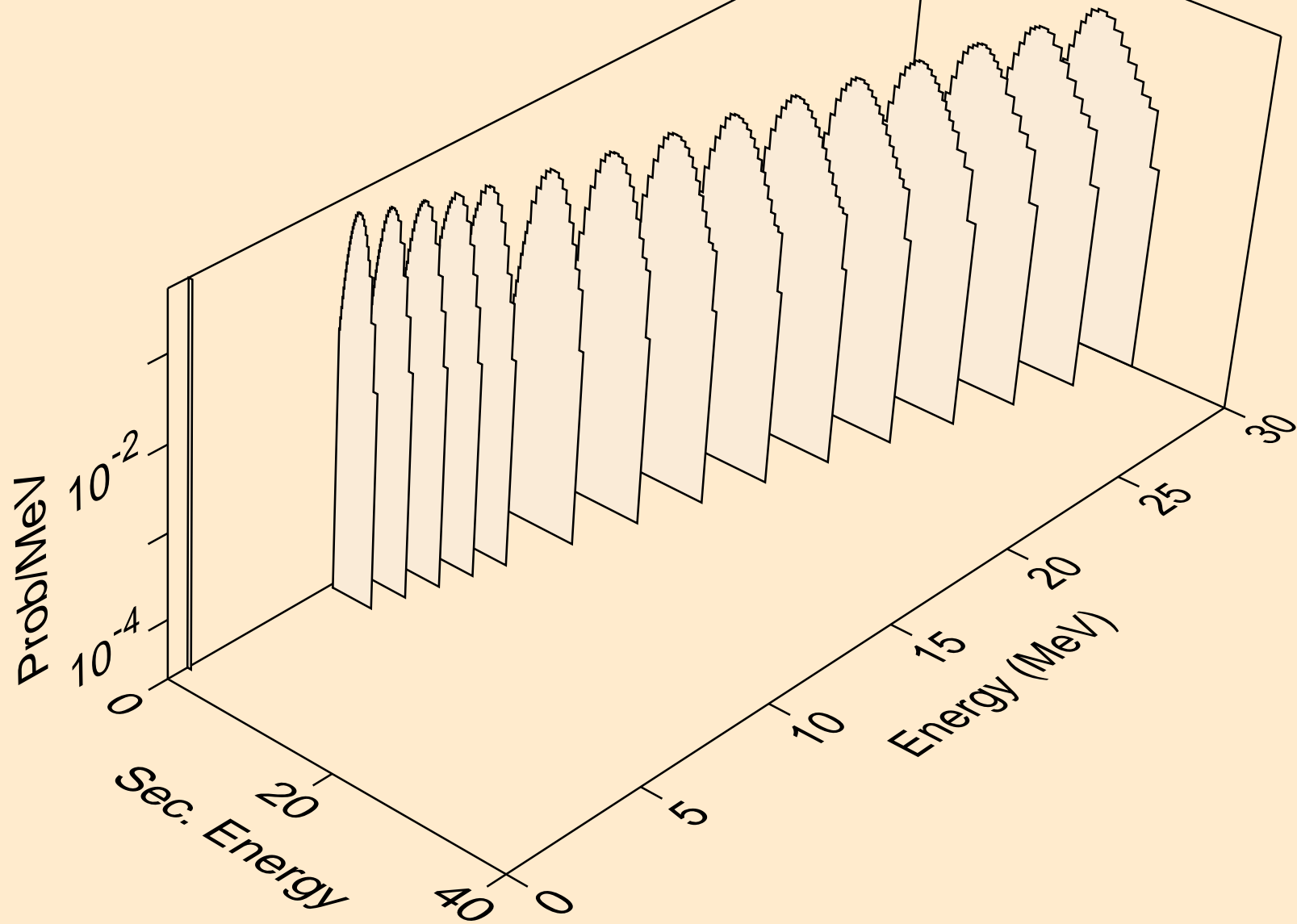
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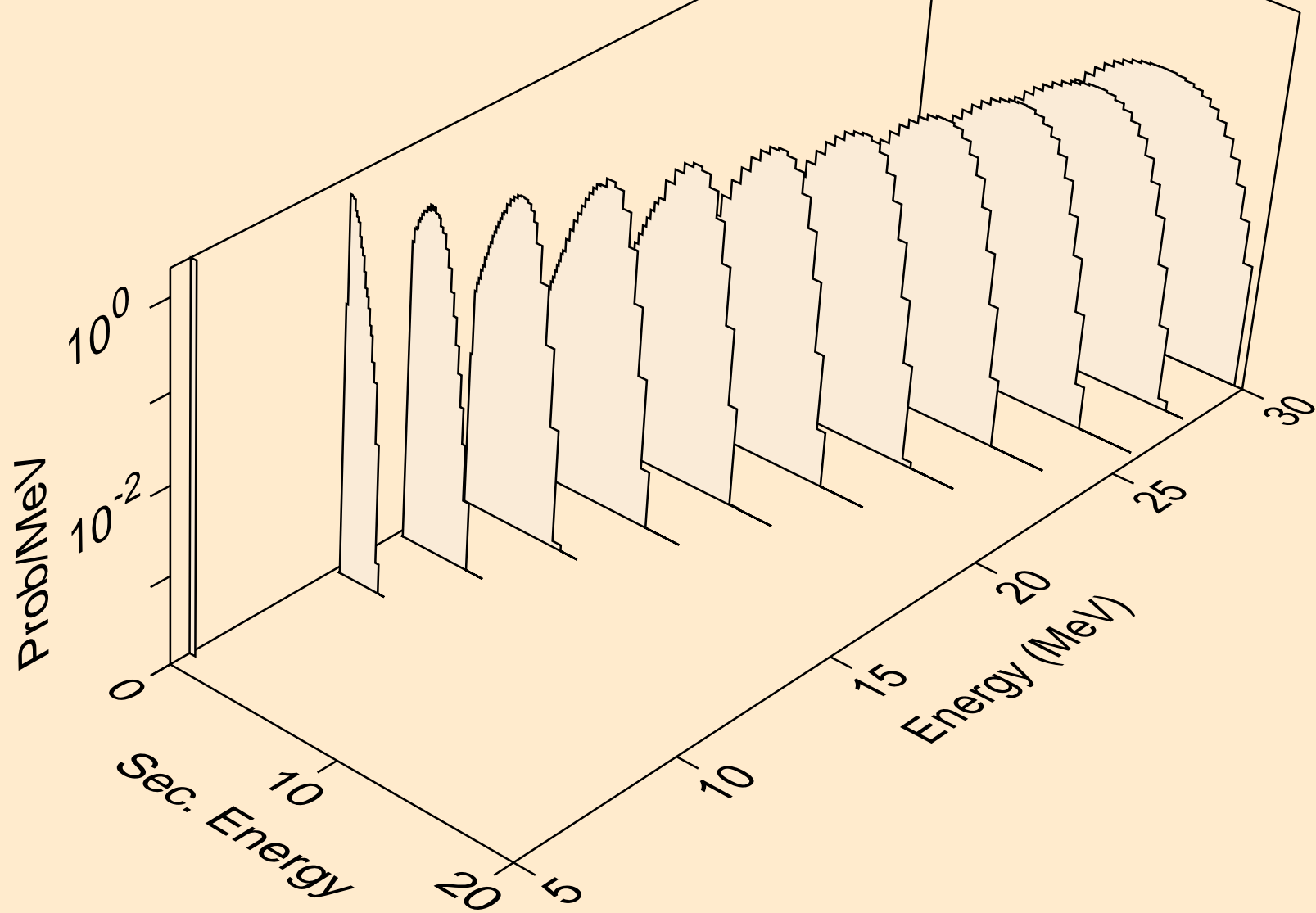
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deuterons from (s,n\*)d



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (s,d)

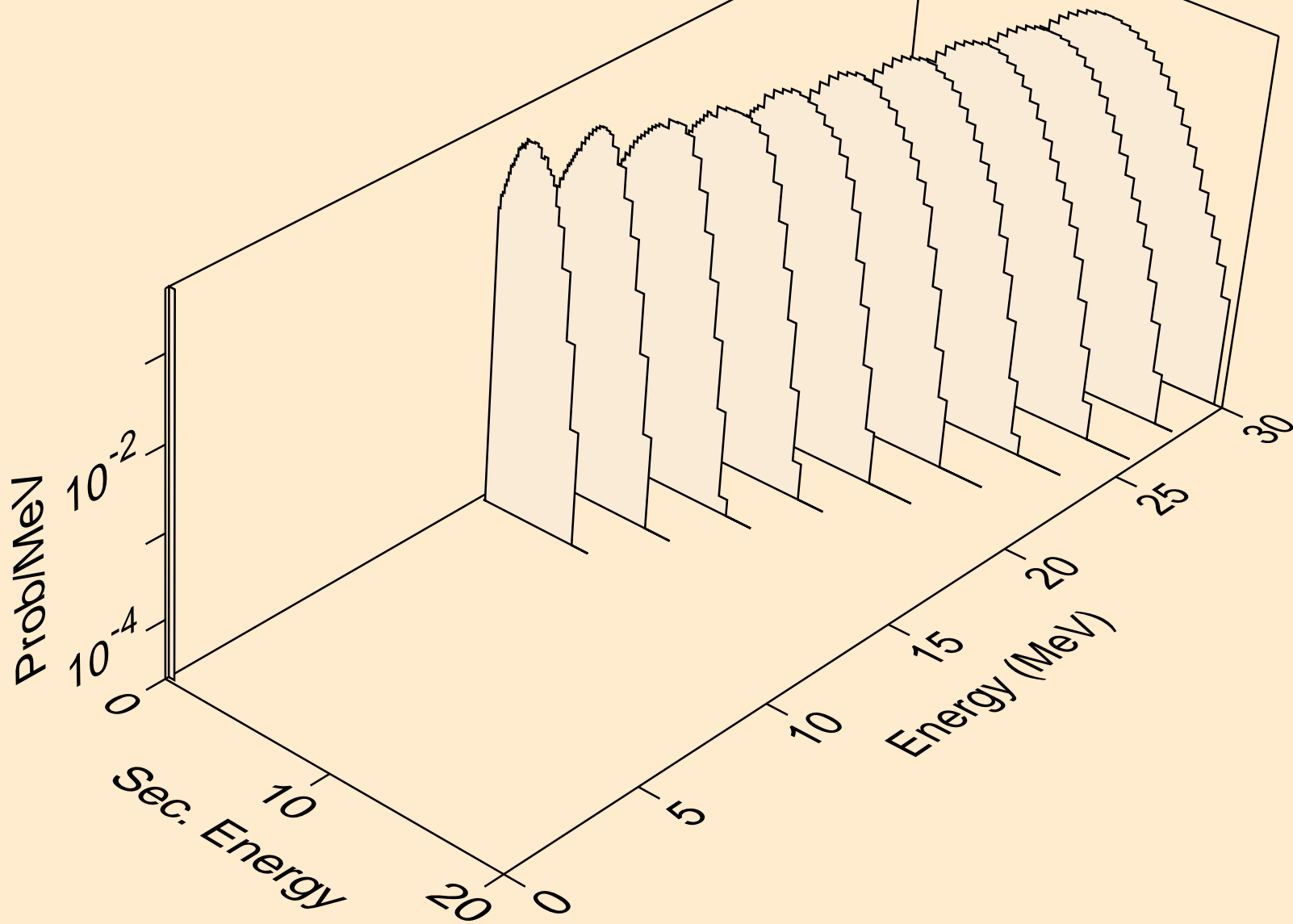


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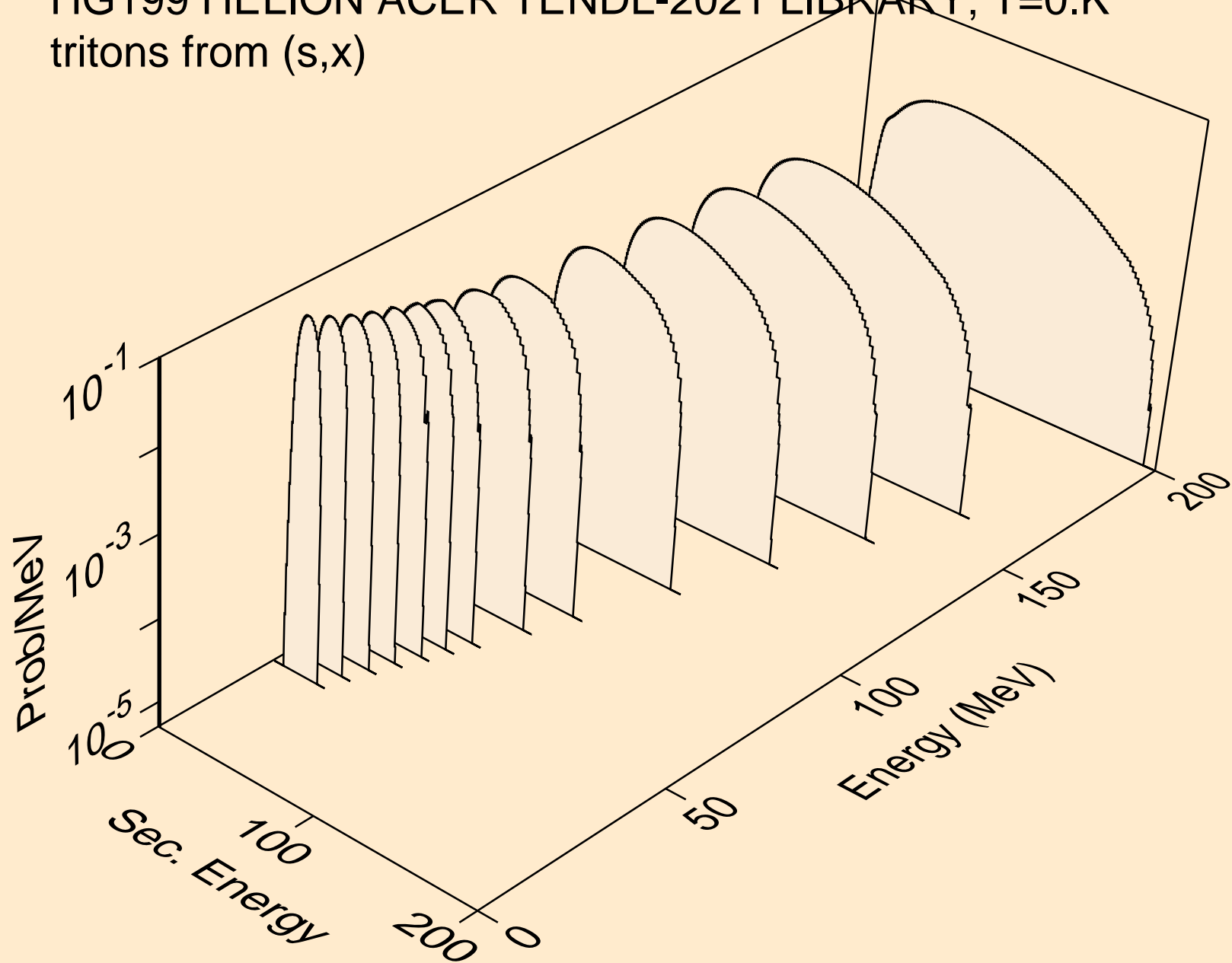




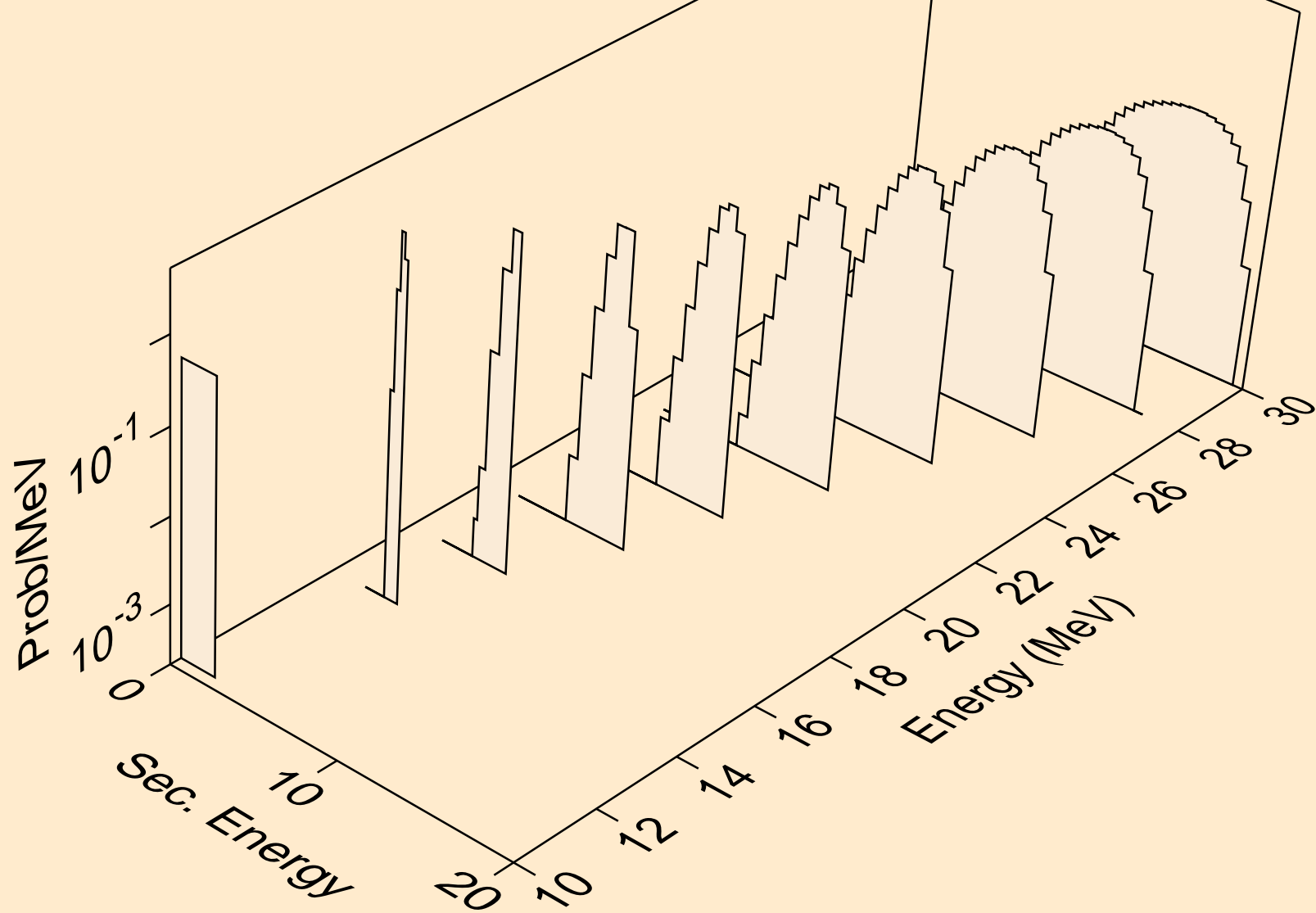
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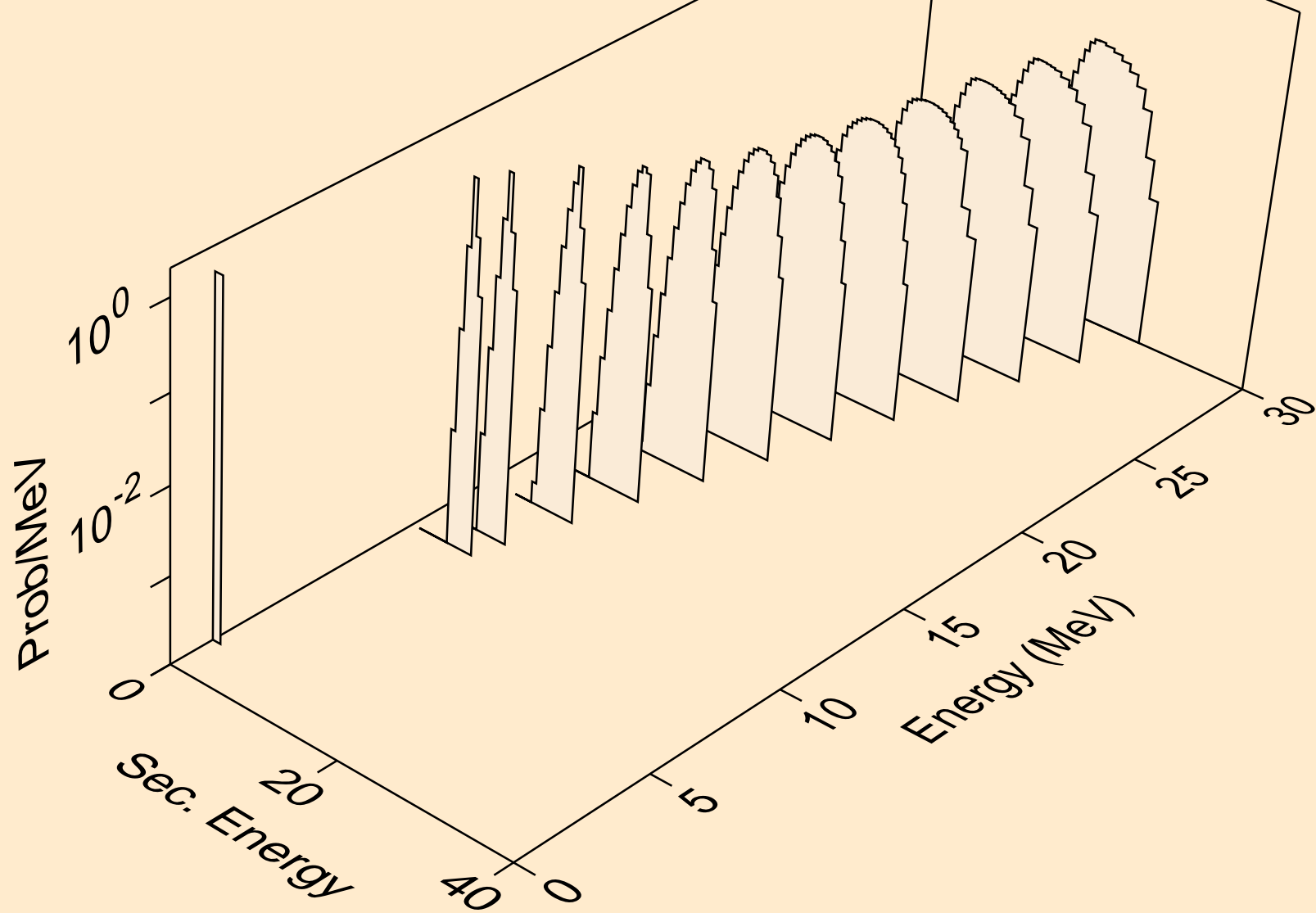
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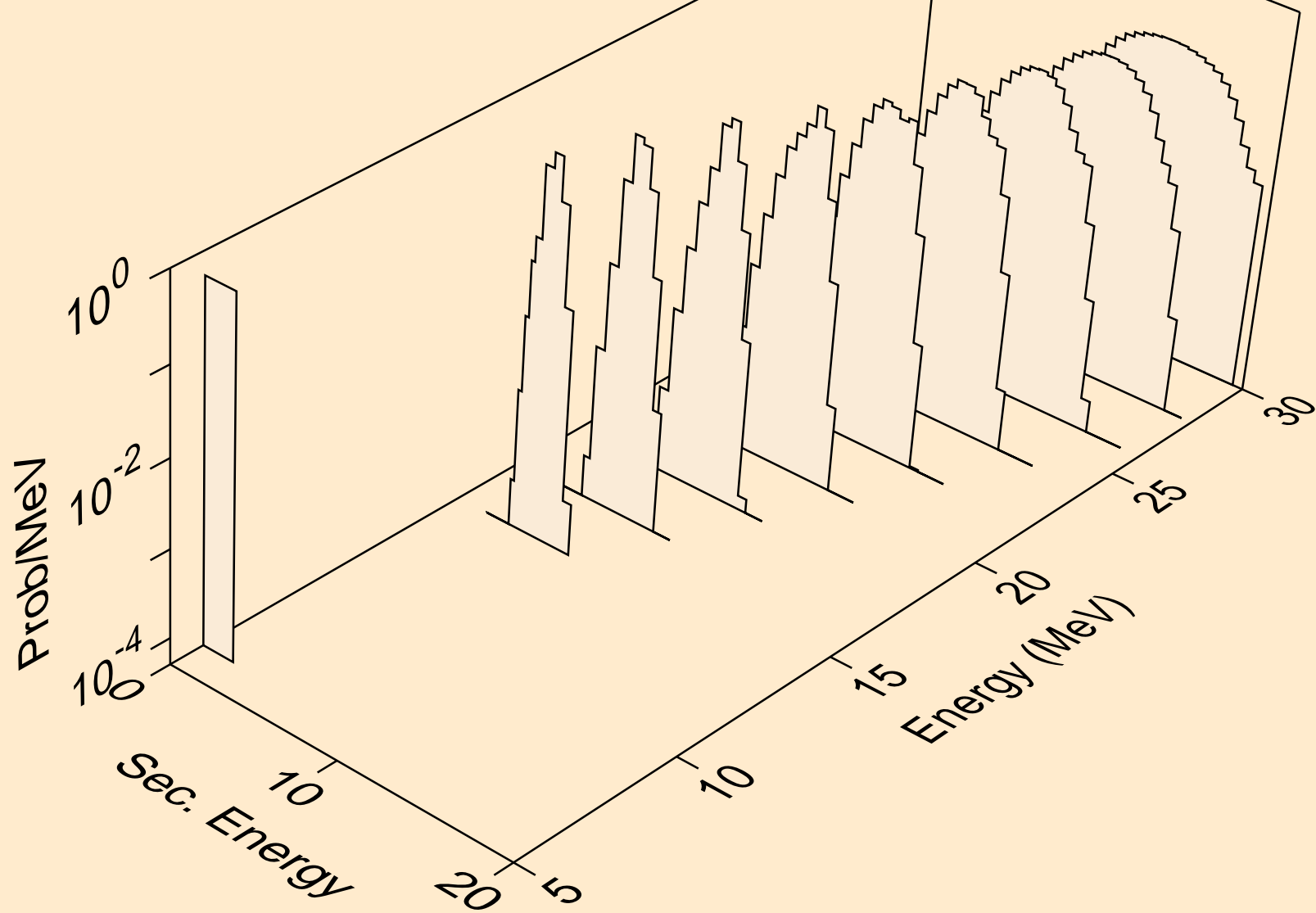
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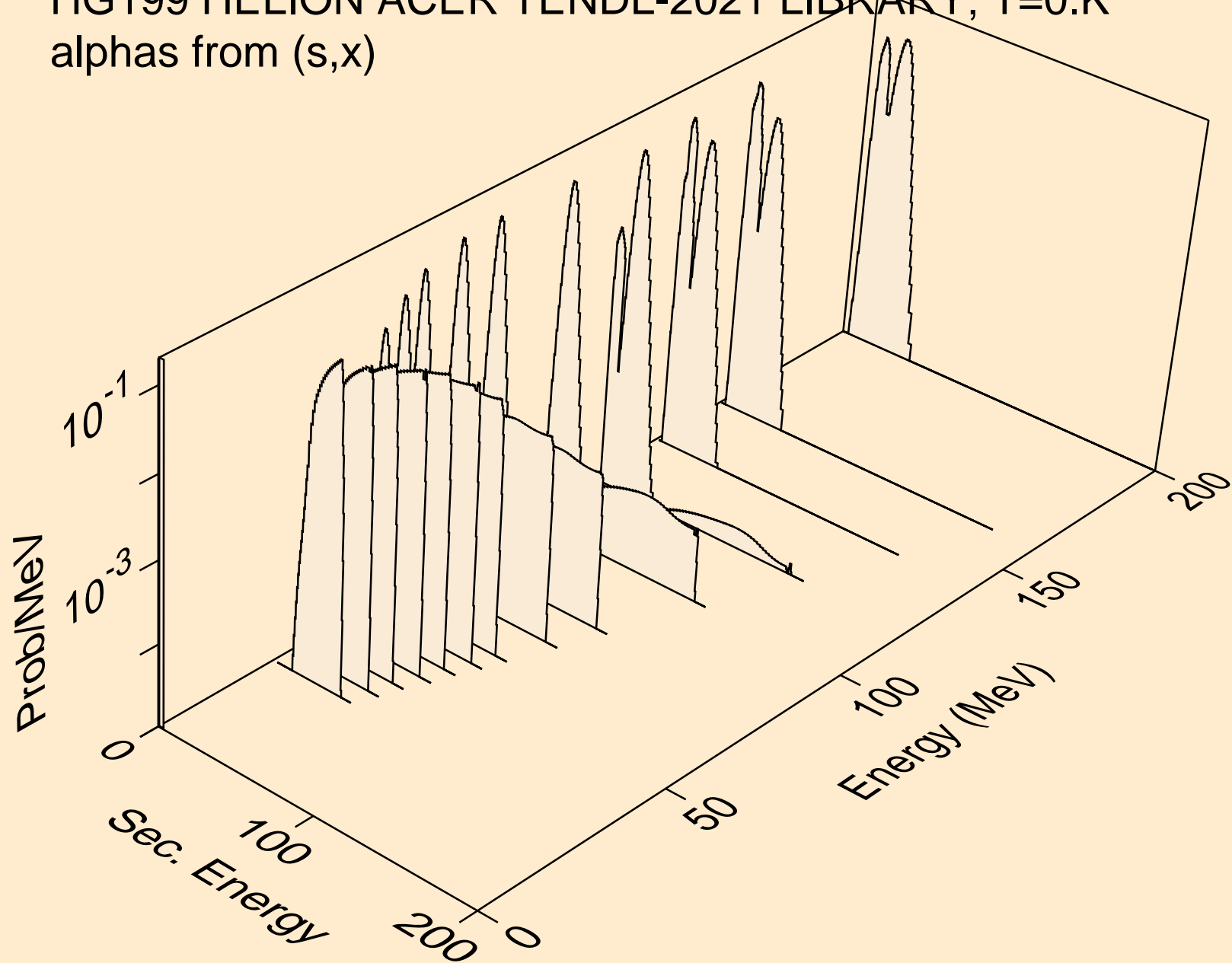
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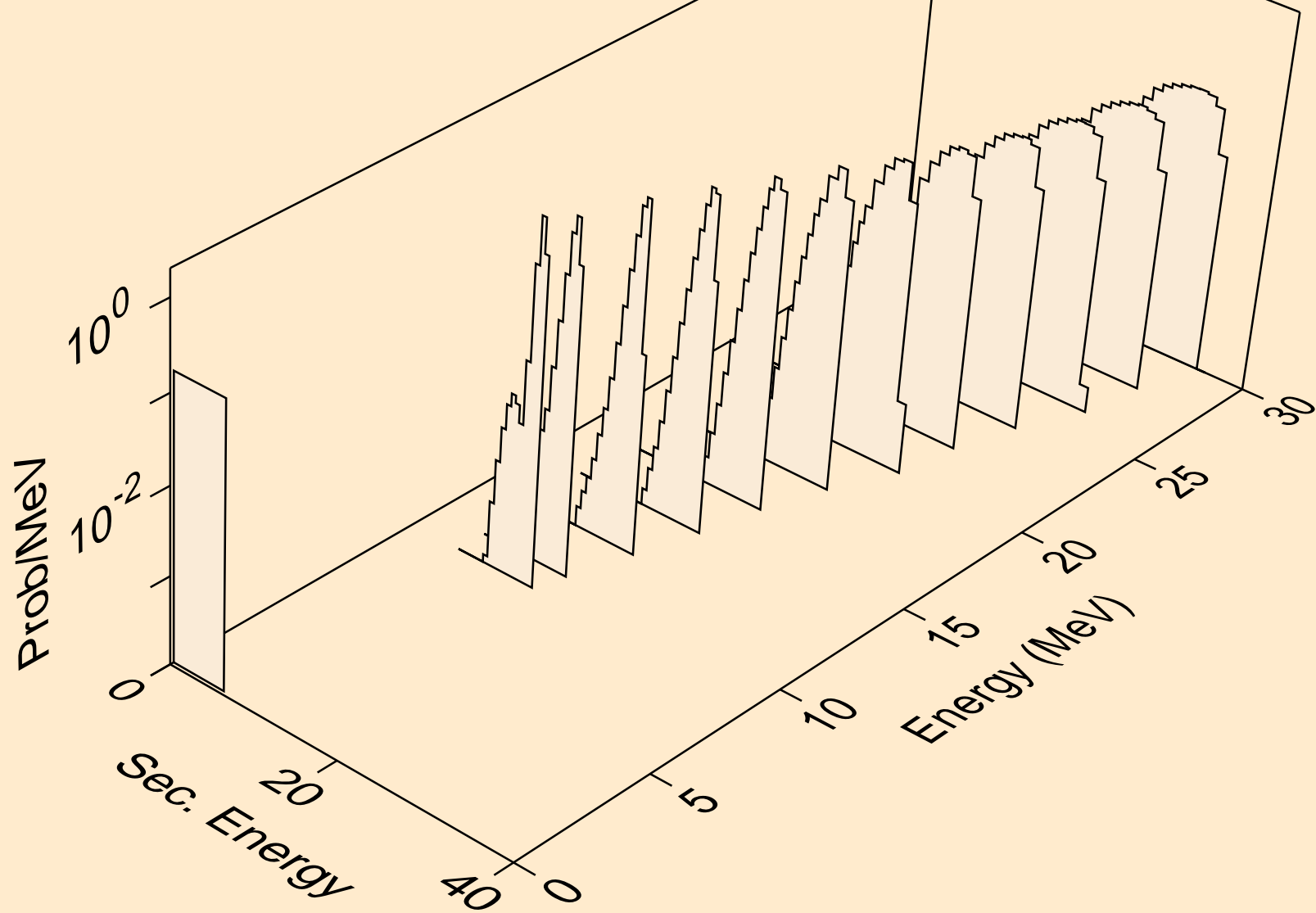
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tritons from (s,pt)



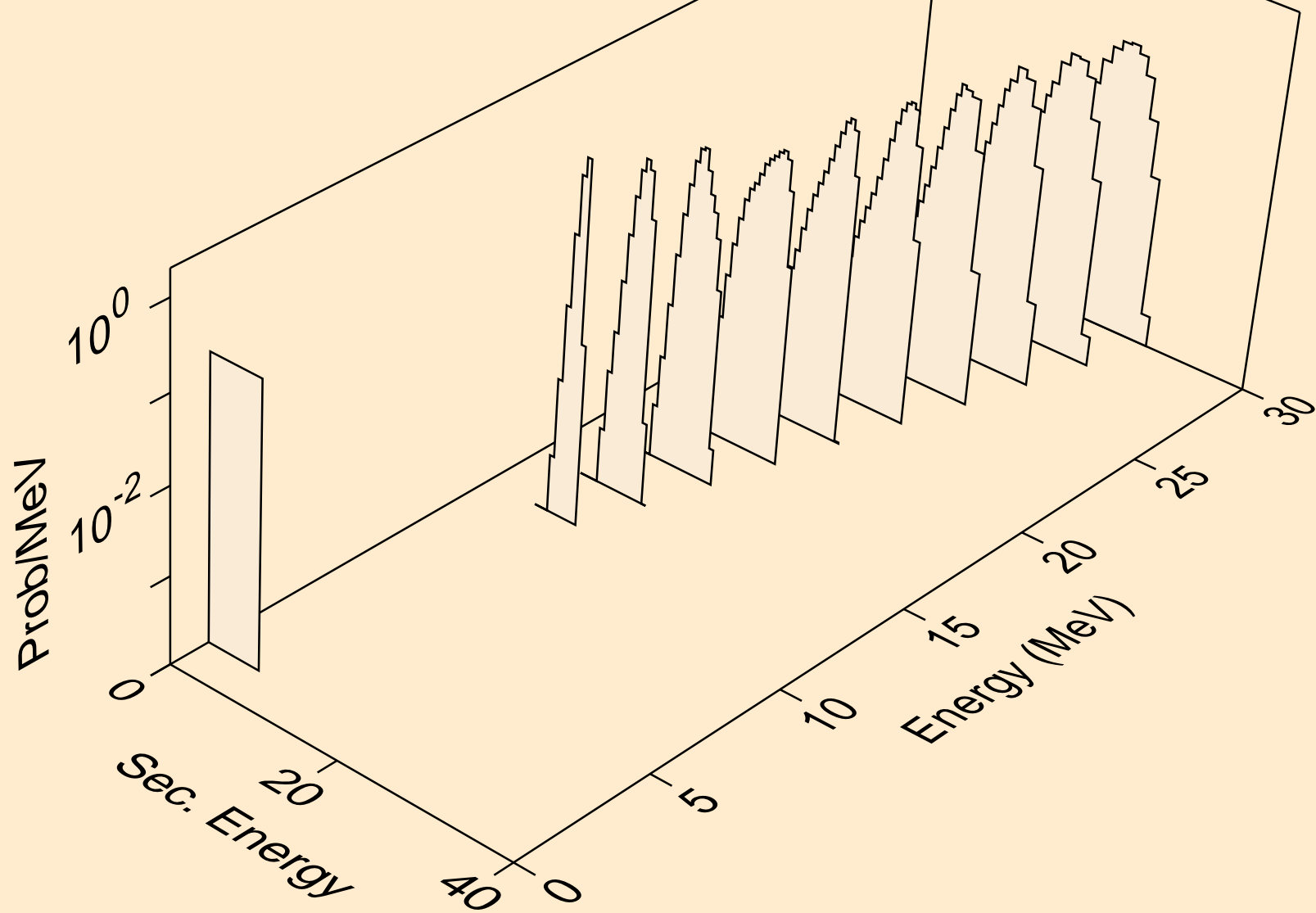
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,x)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,n\*)a

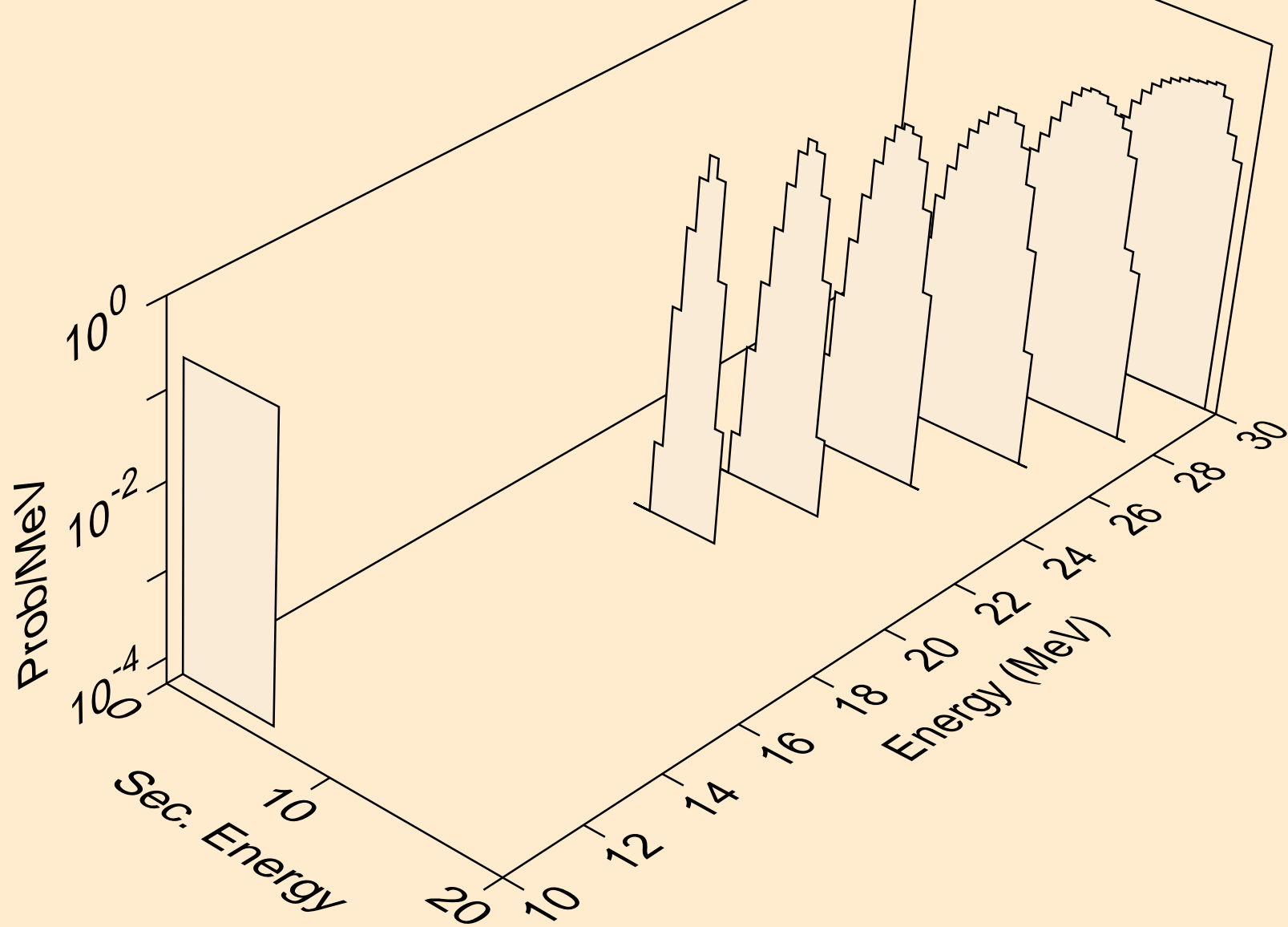


HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2n)a

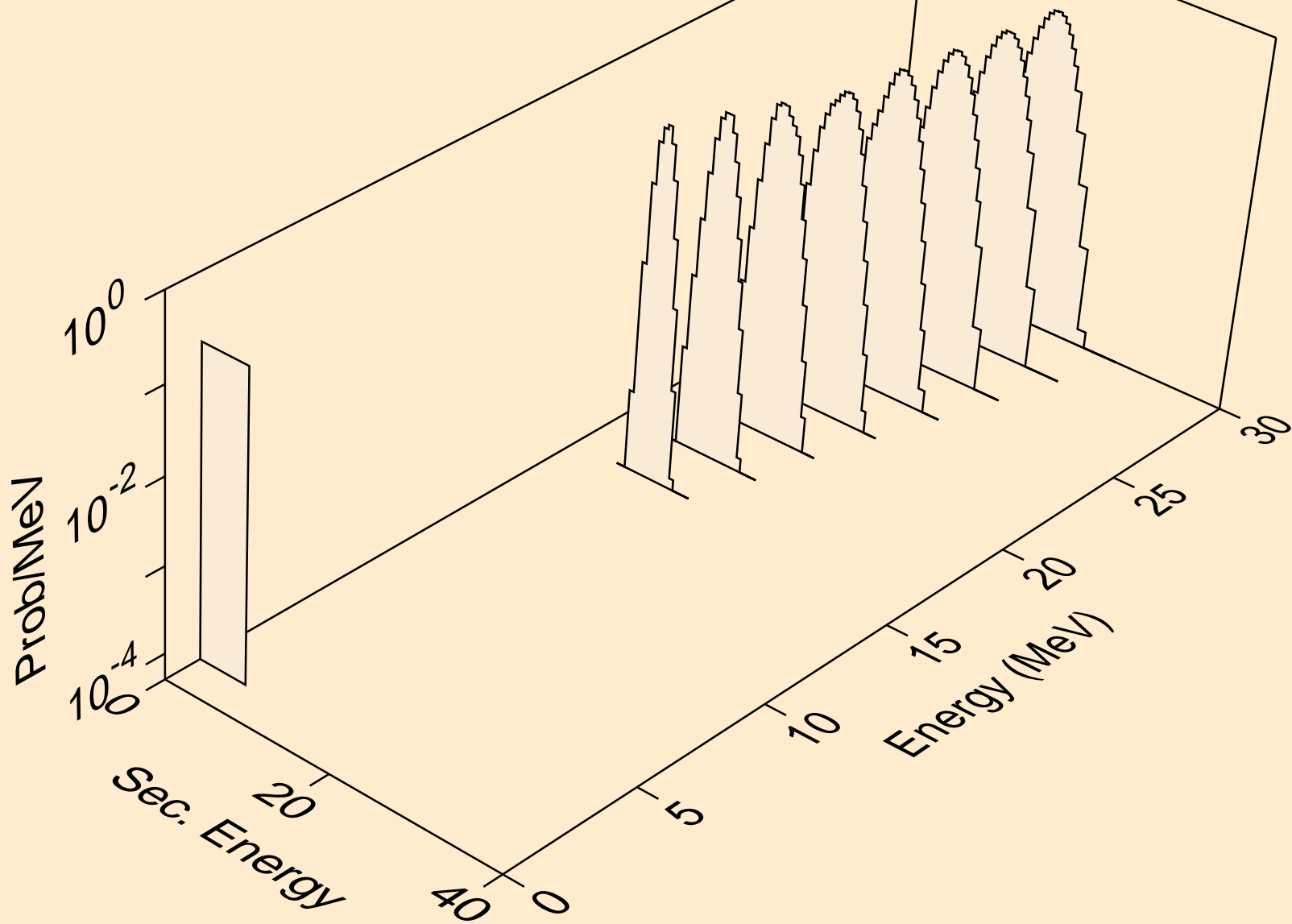




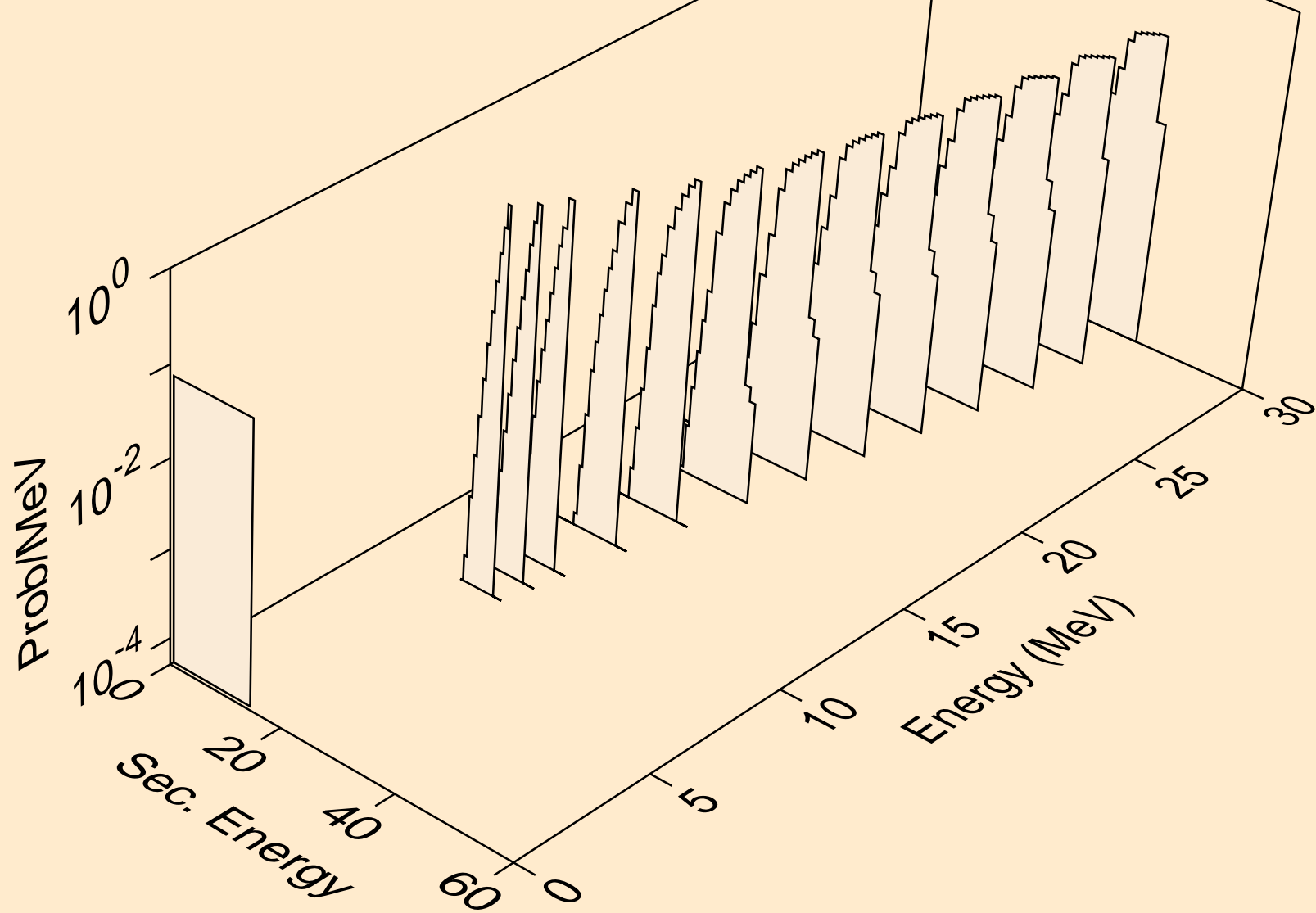
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alphas from (s,3n)a



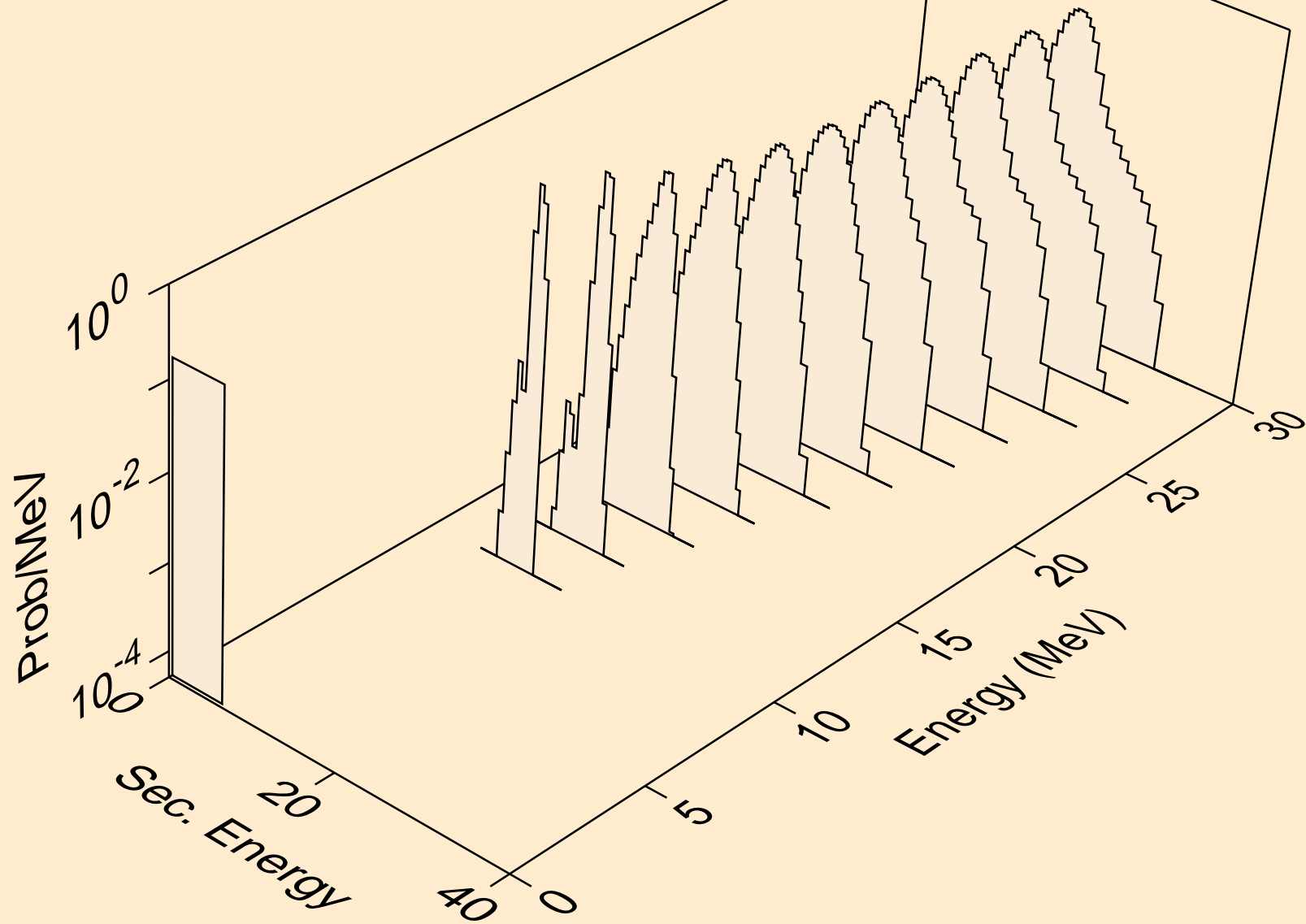
HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,npa)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,a)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,pa)



HG199 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,da)

