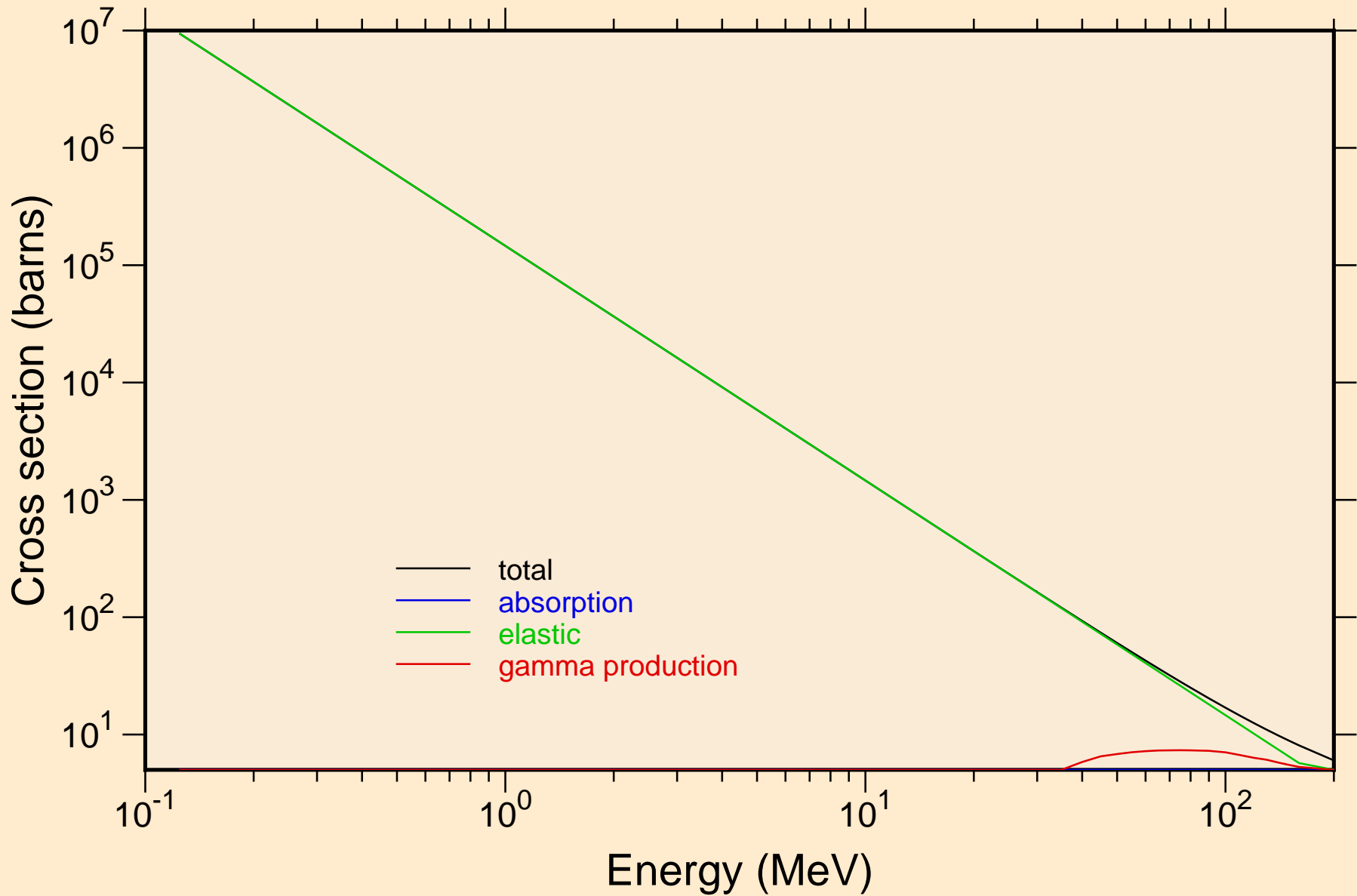
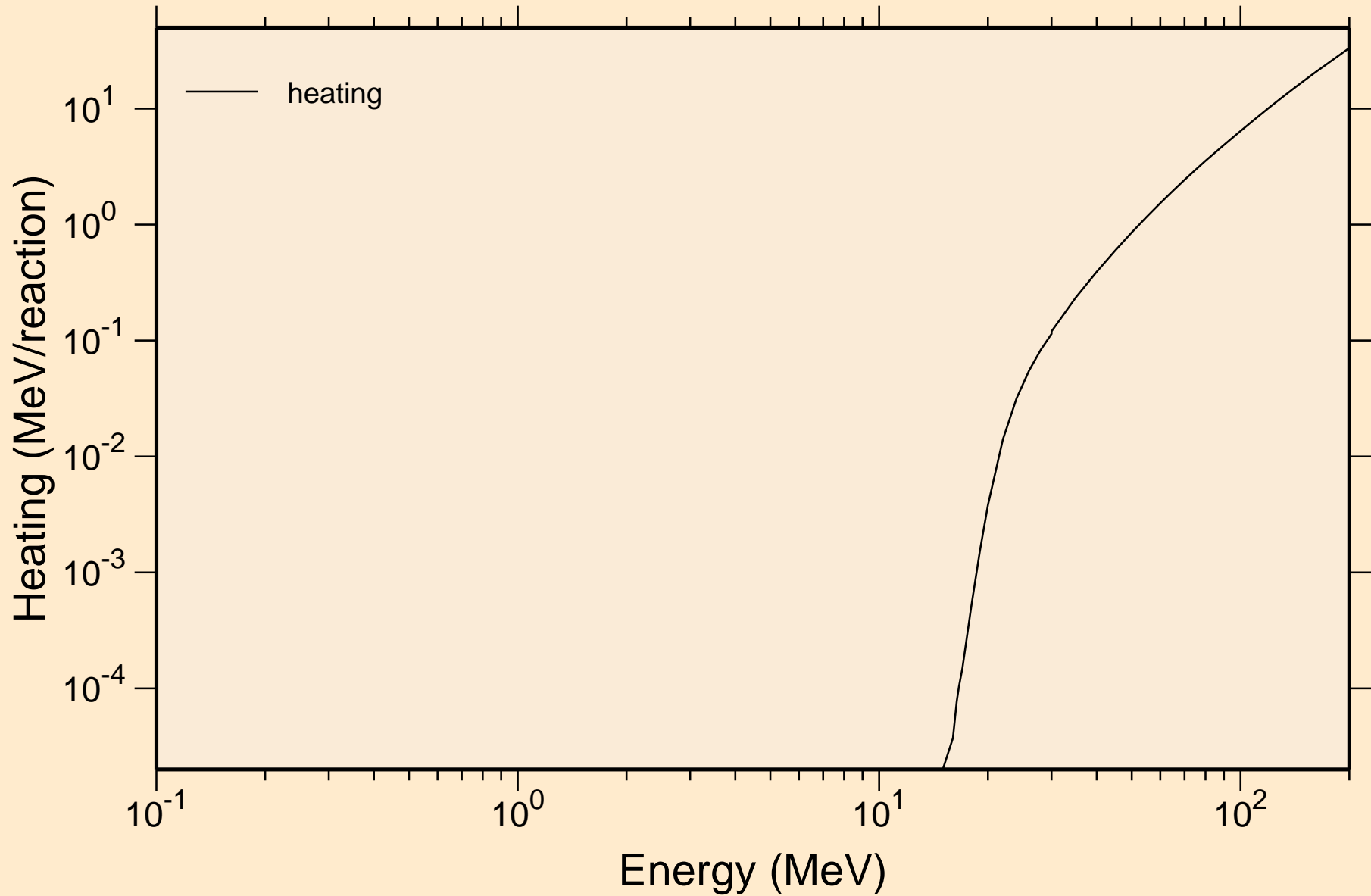


OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
Principal cross sections



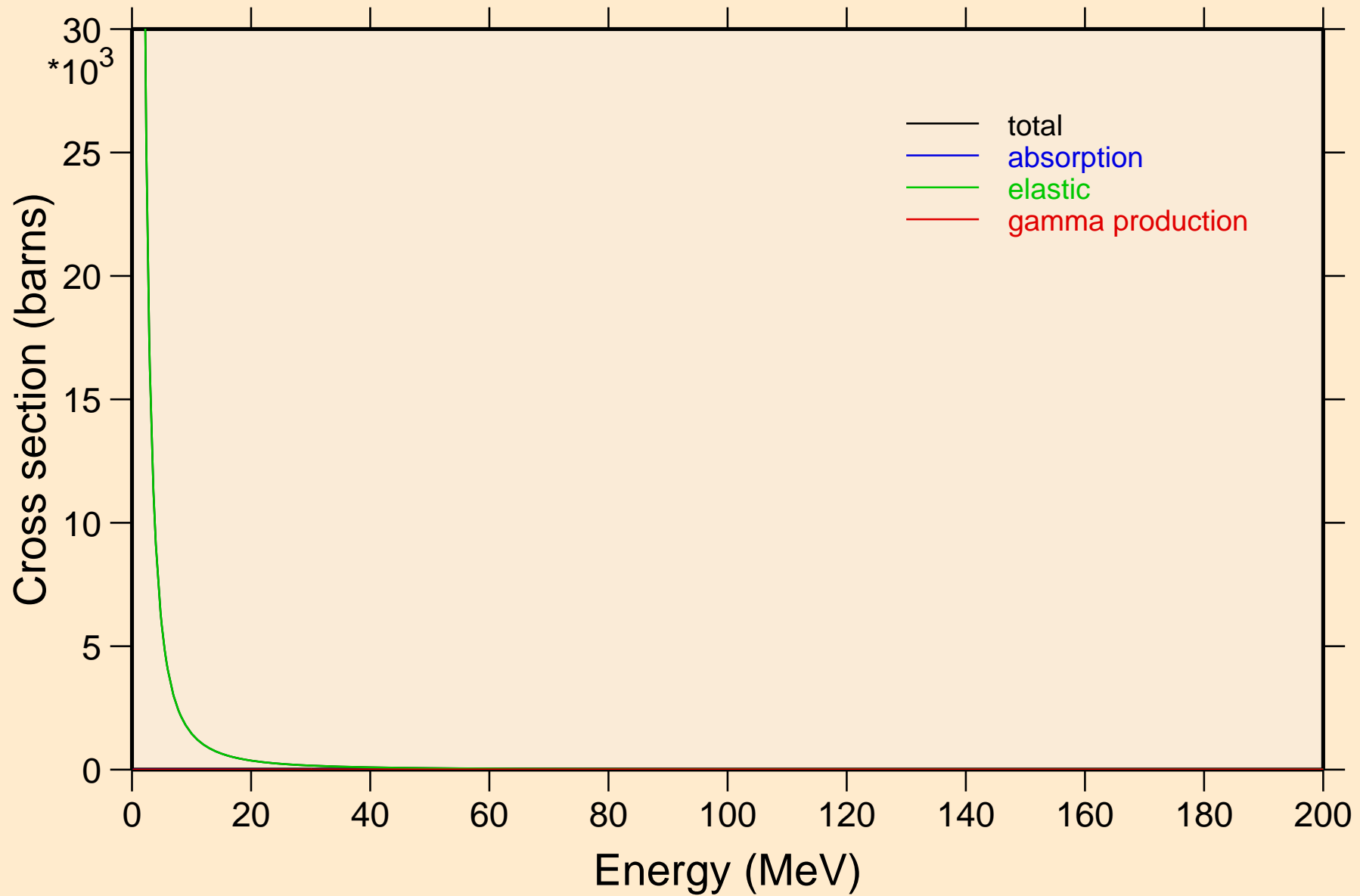
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## Heating



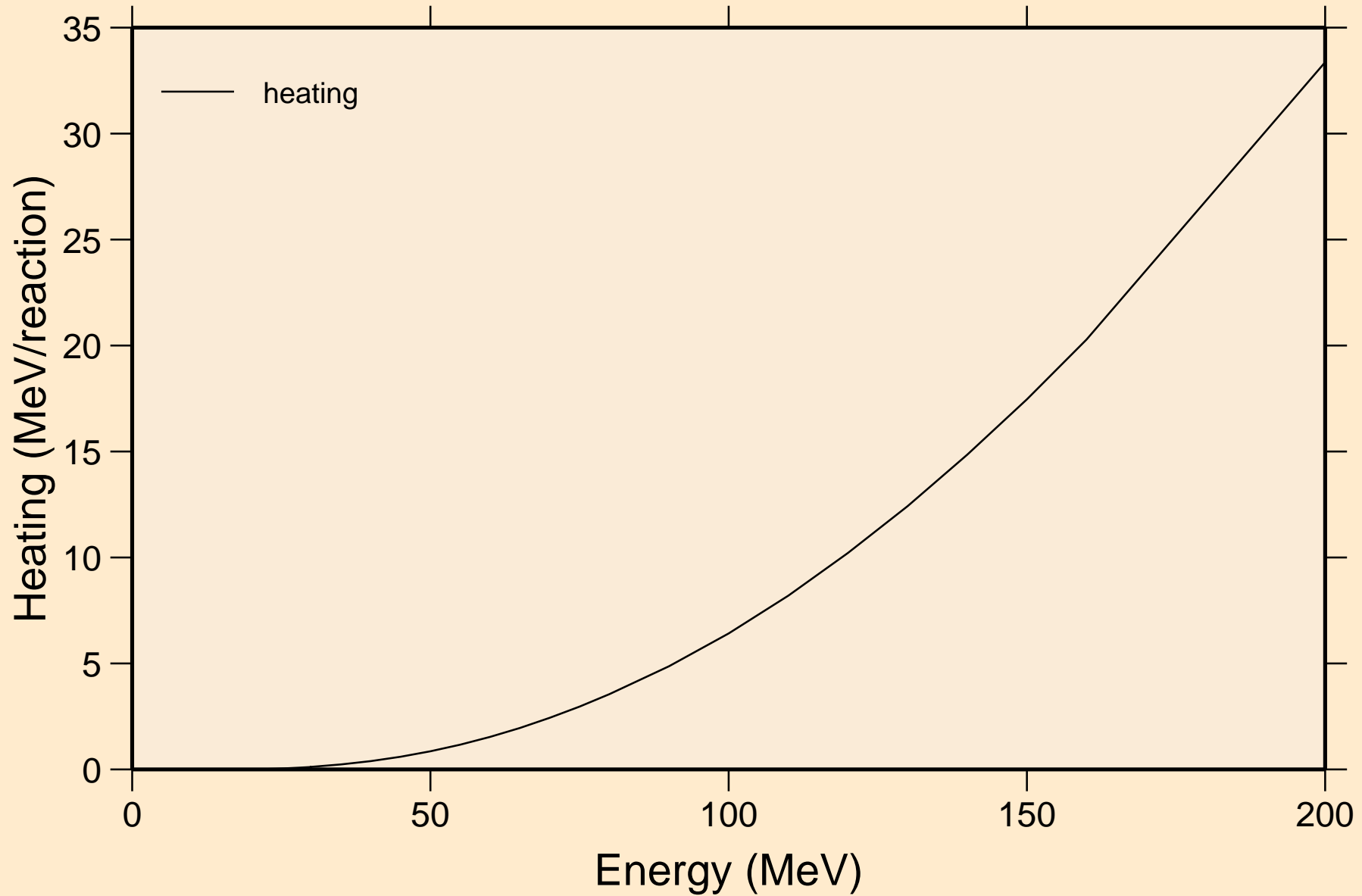
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## Principal cross sections

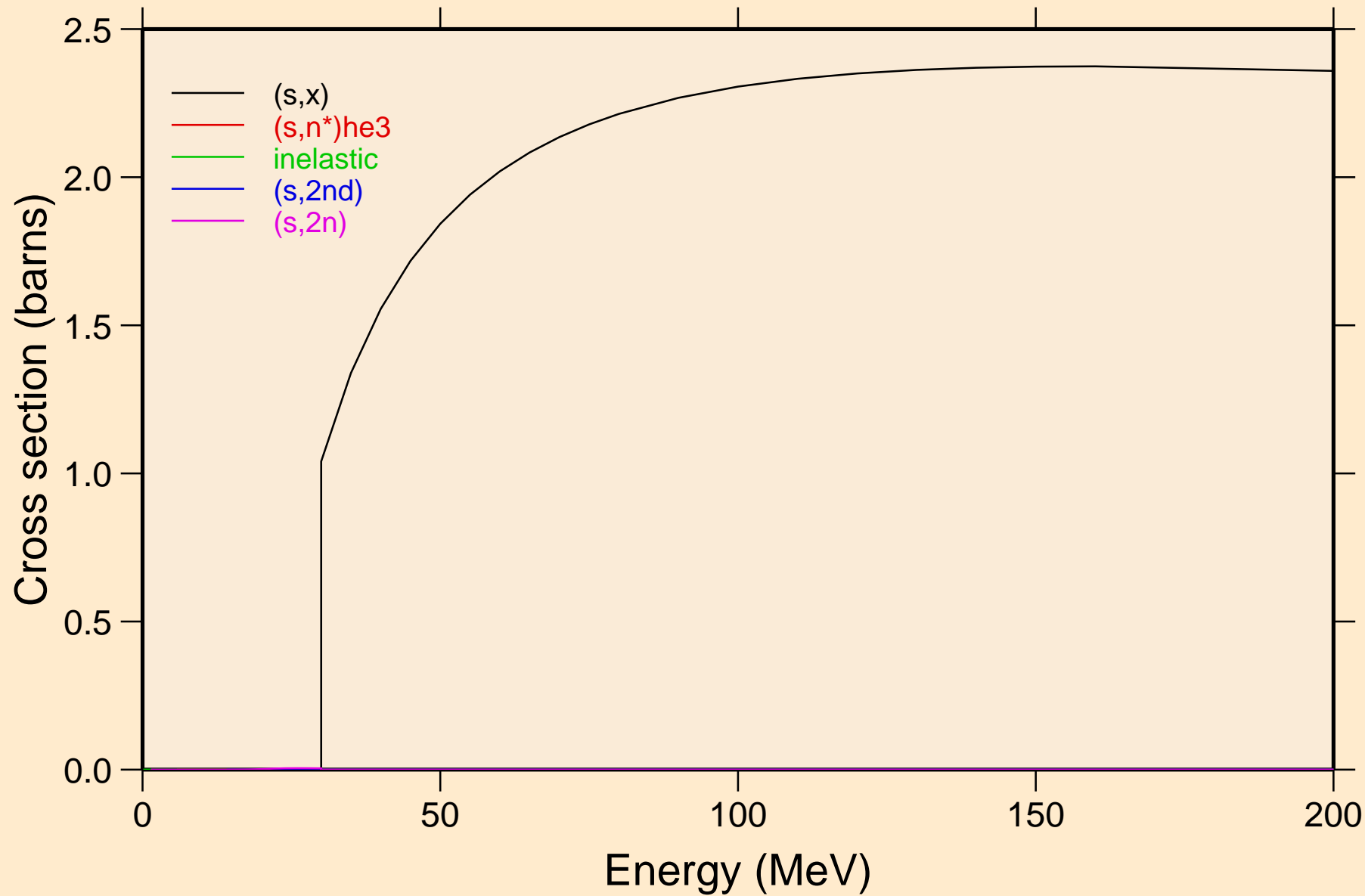


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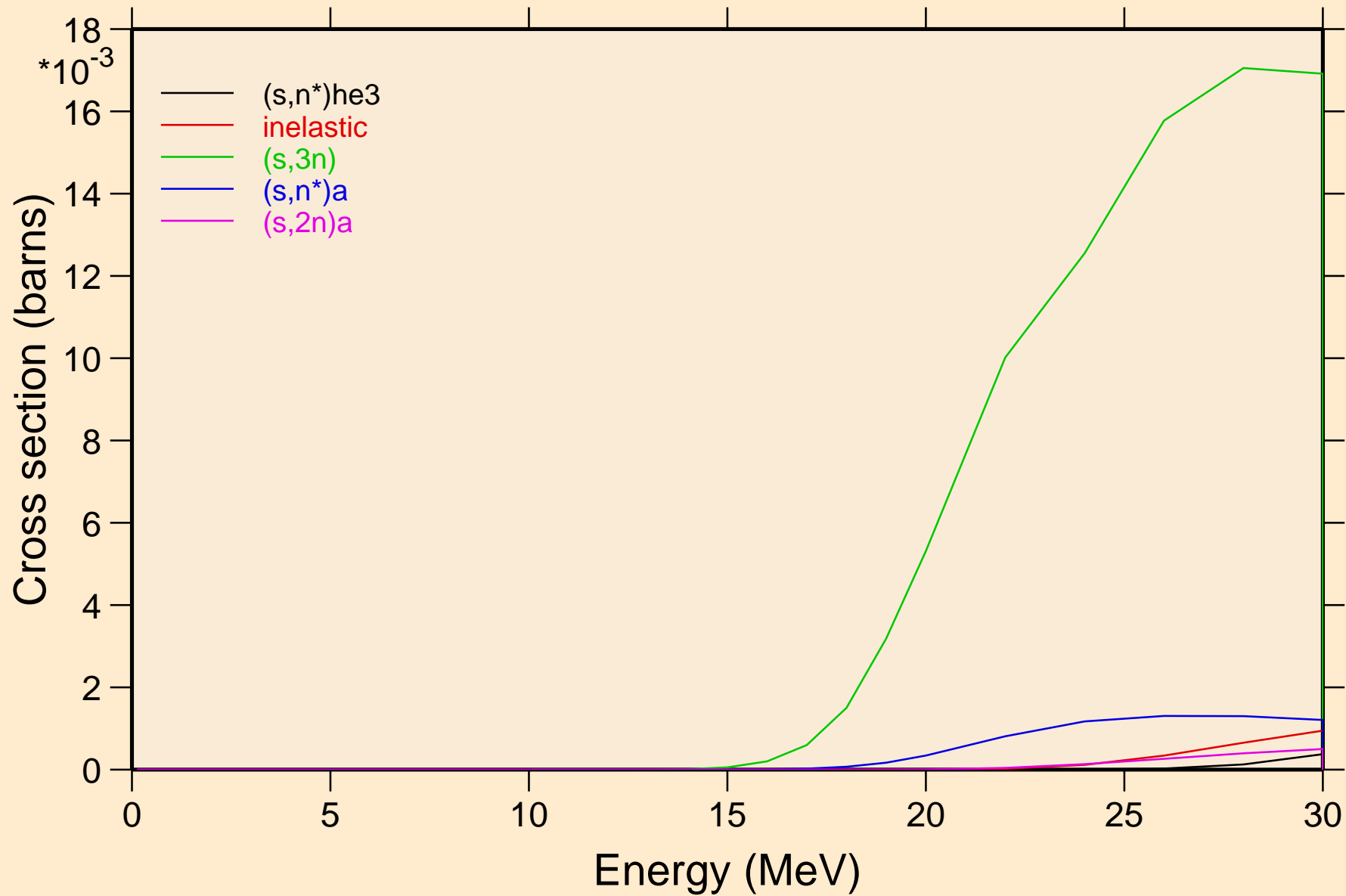
## Heating



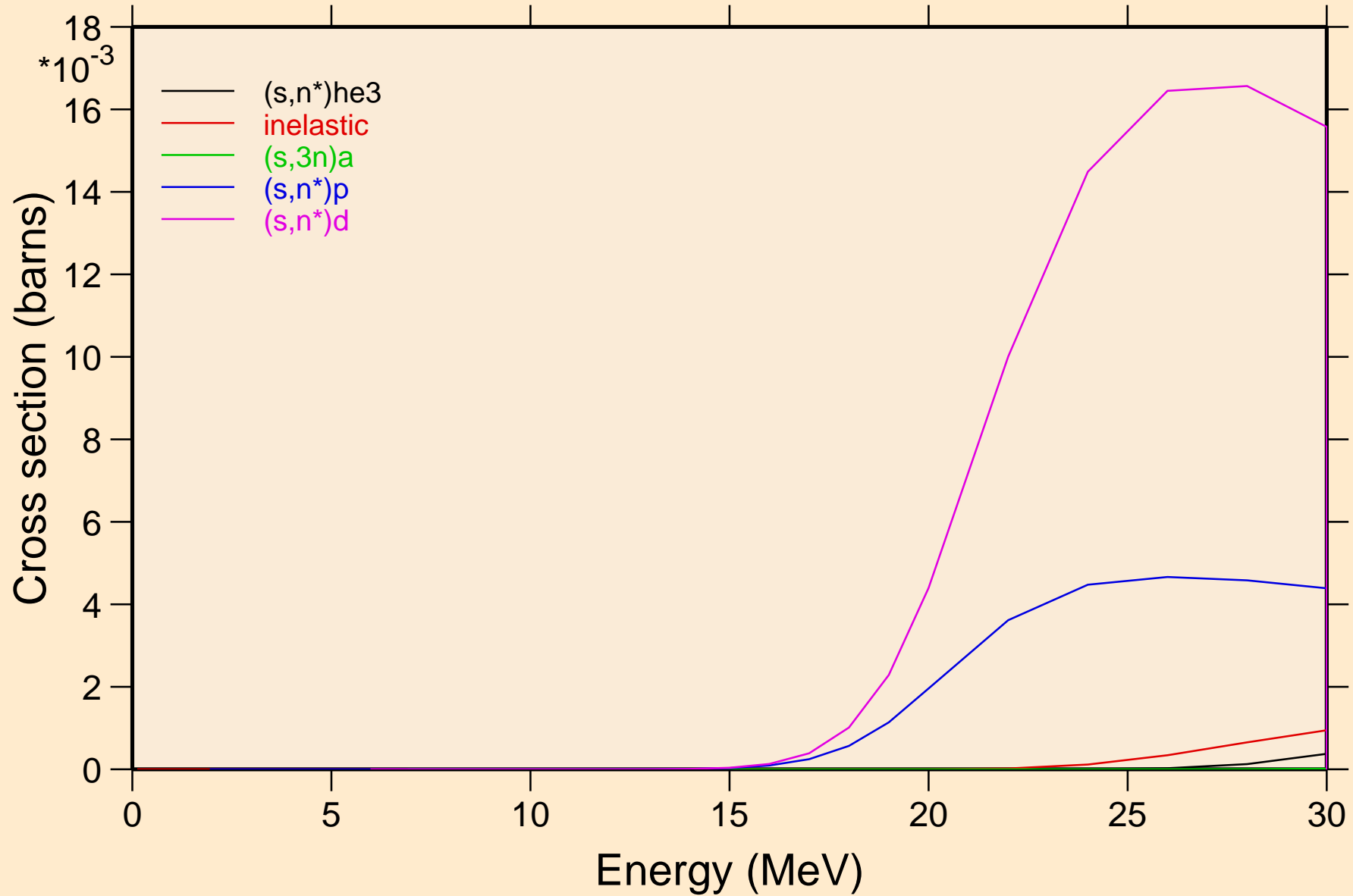
OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



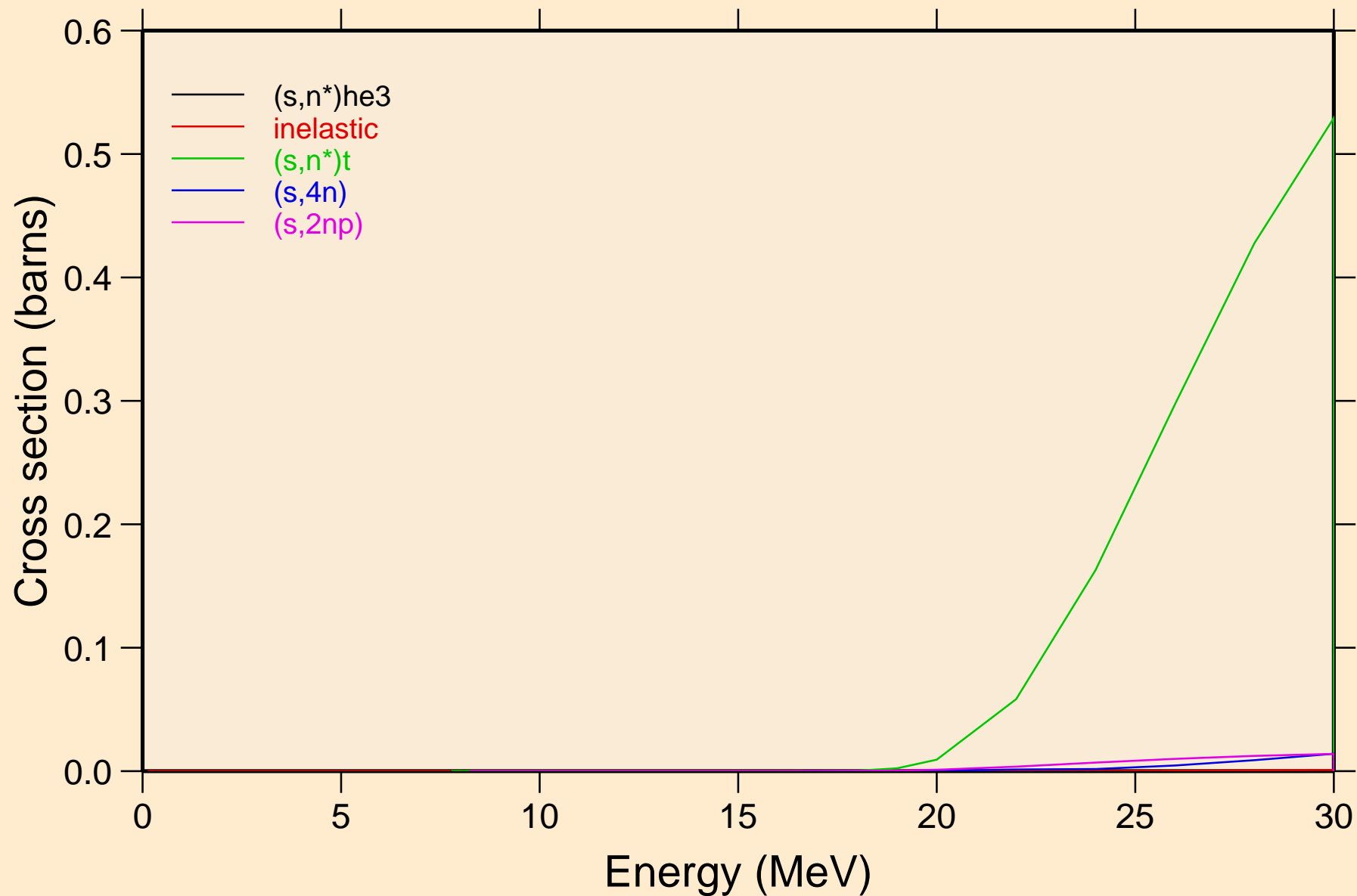
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Threshold reactions



OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions

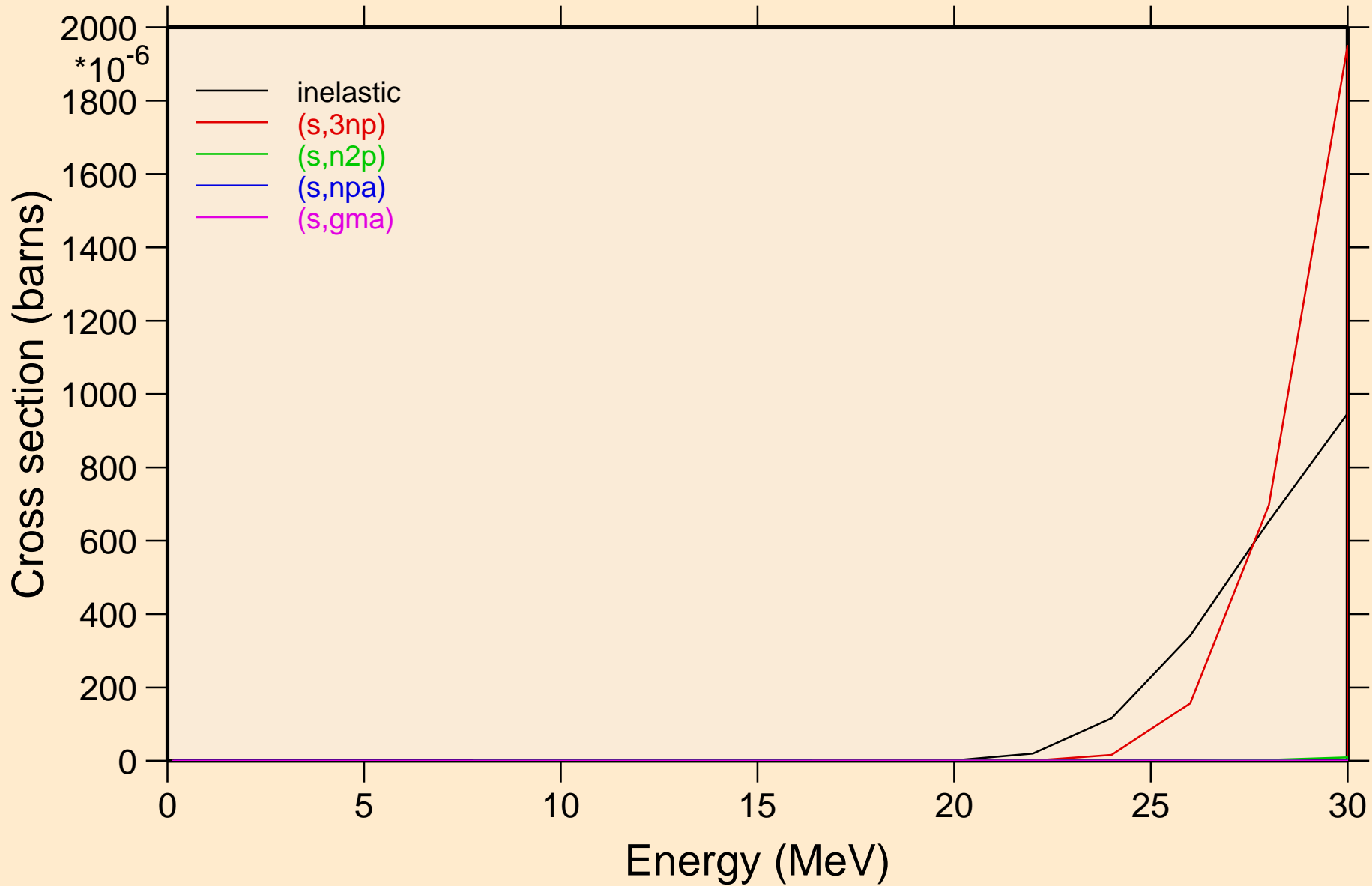


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Threshold reactions



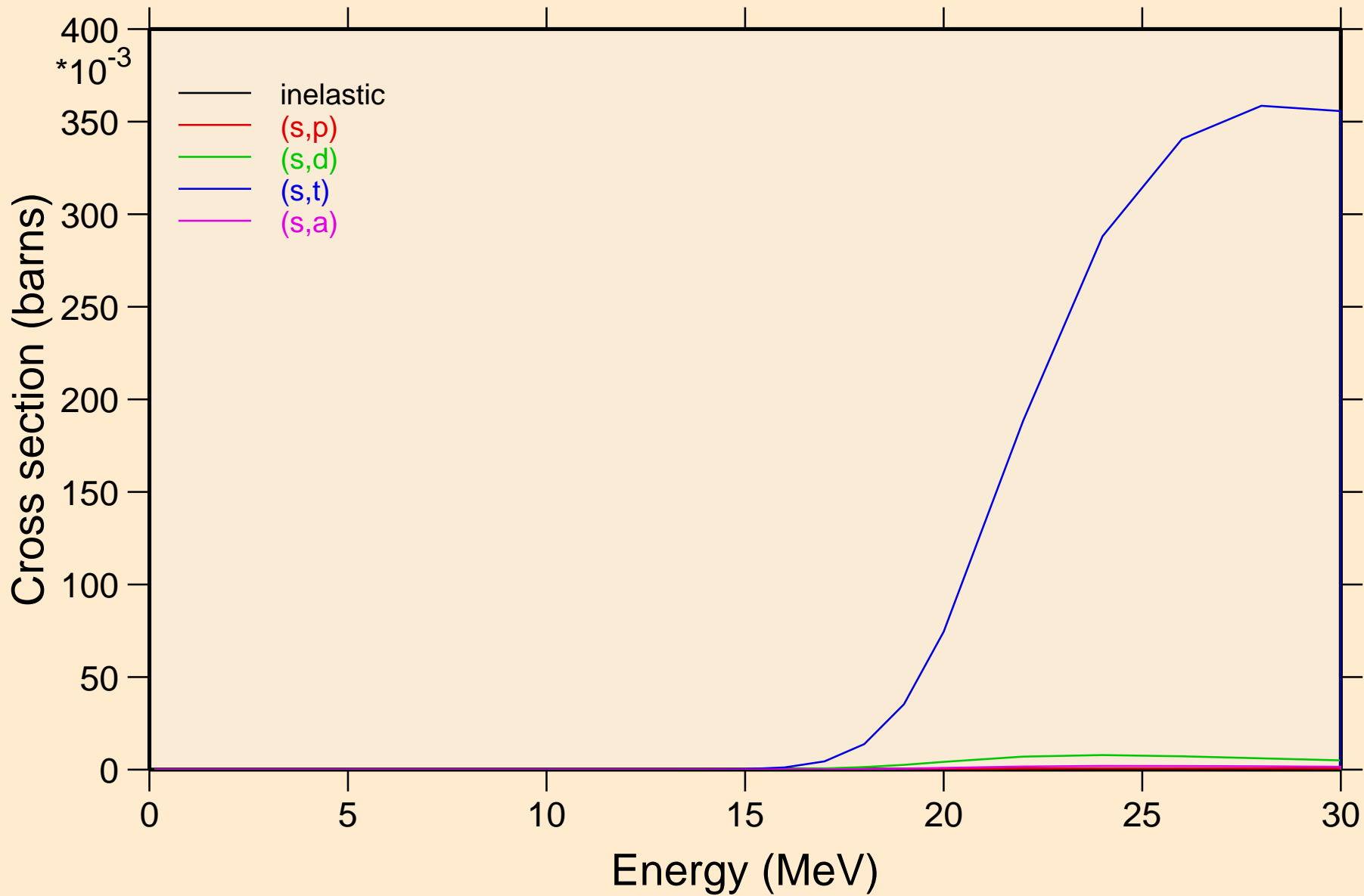
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## Threshold reactions

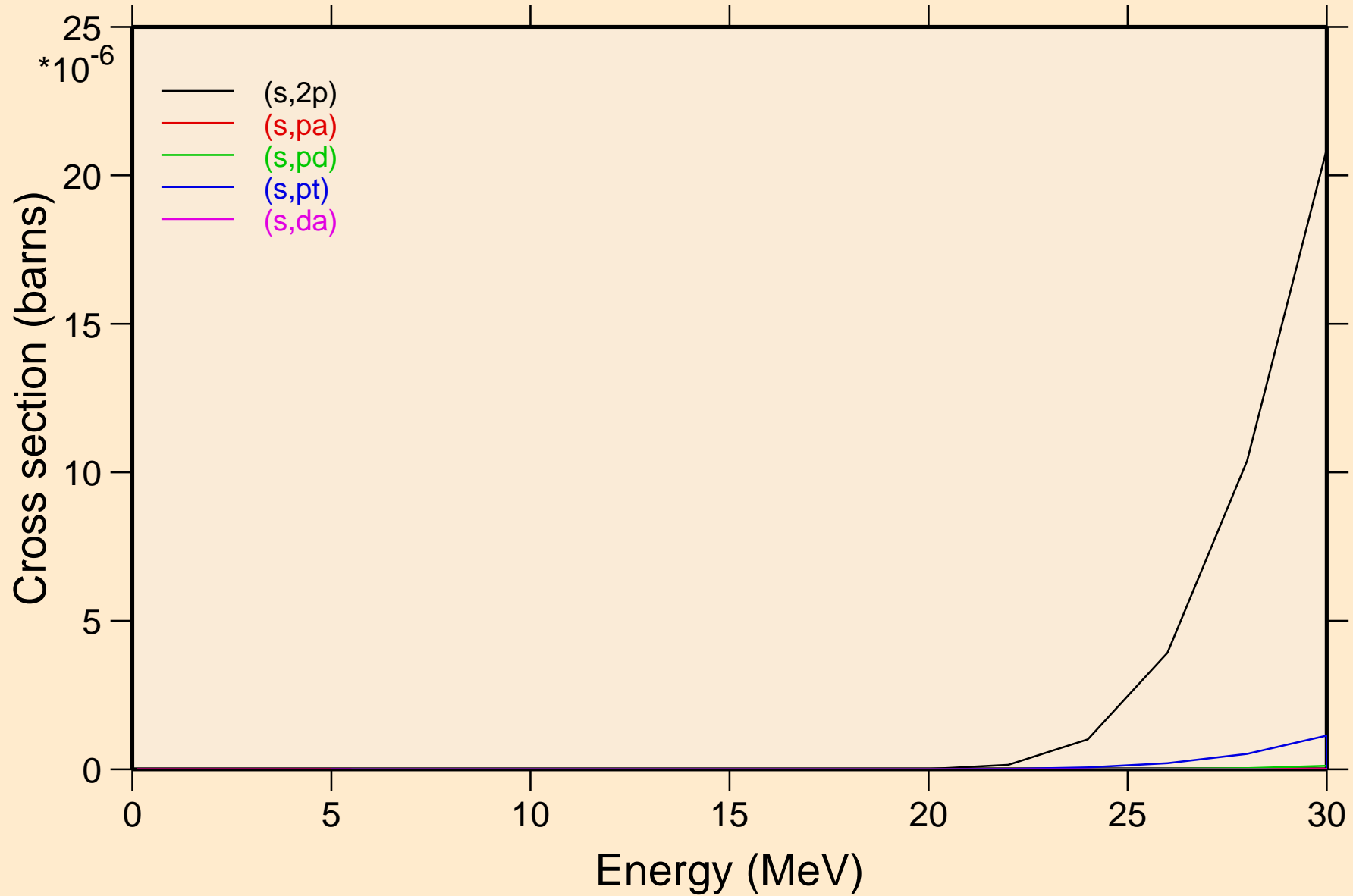


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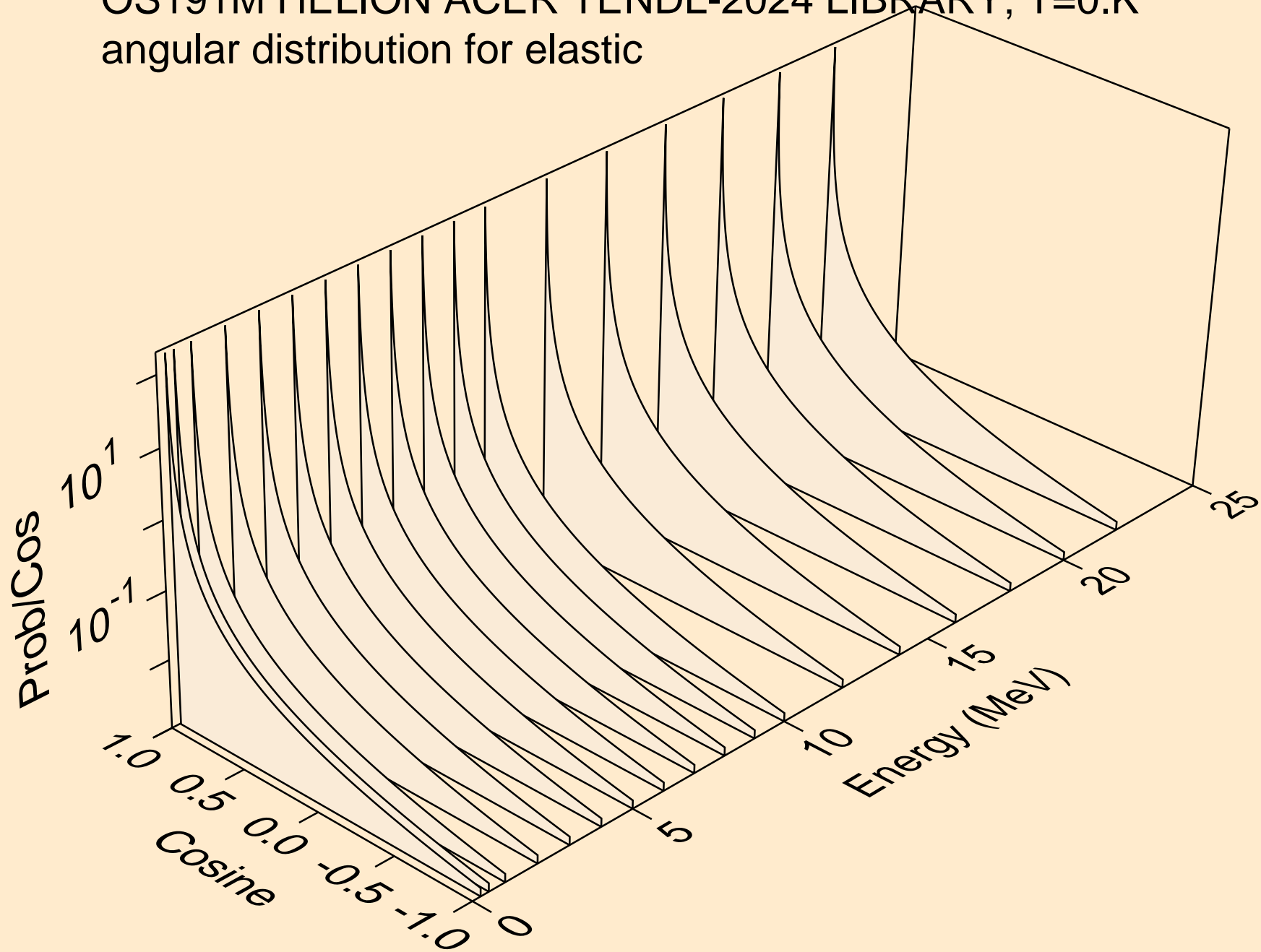
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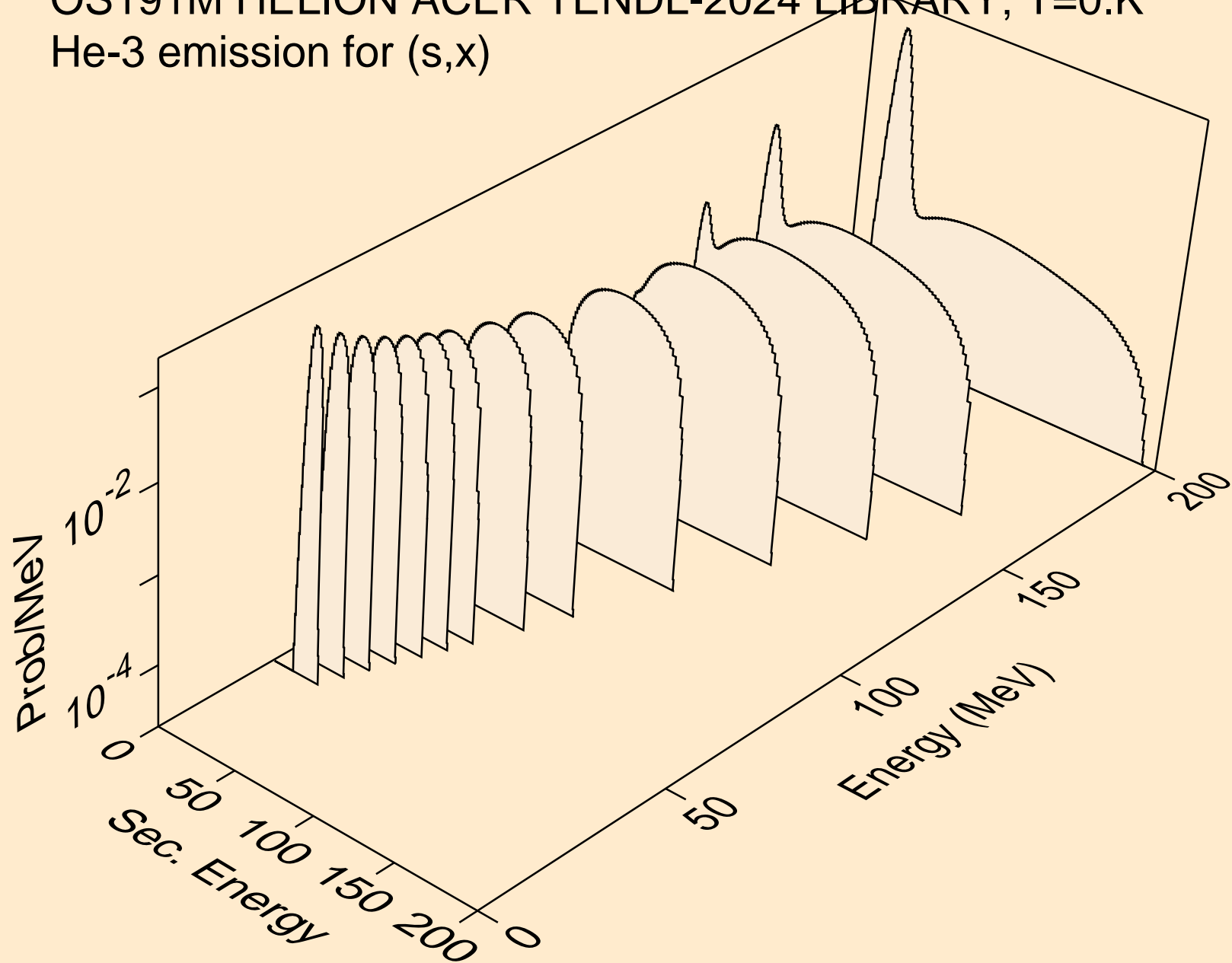
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Threshold reactions



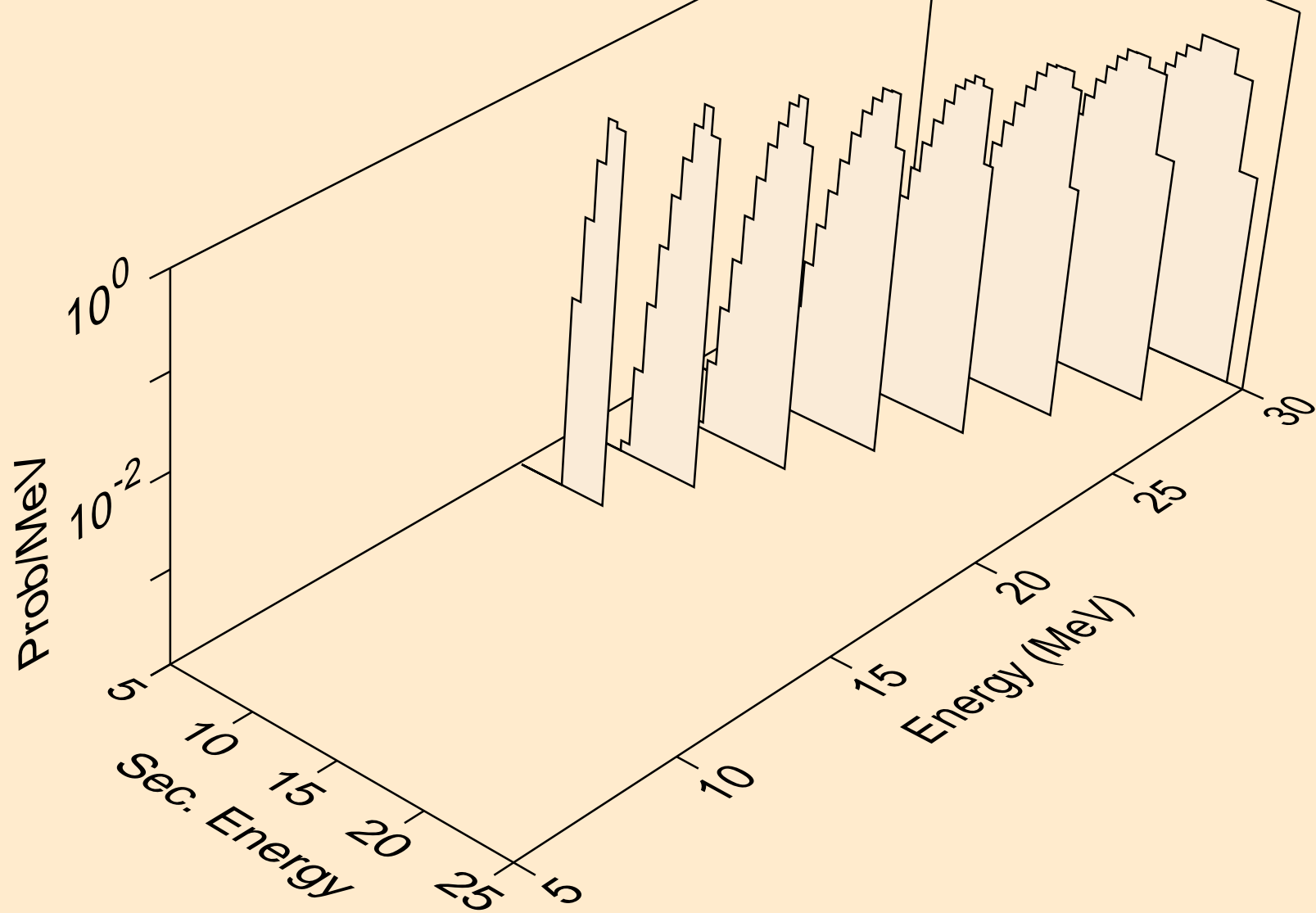
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angular distribution for elastic



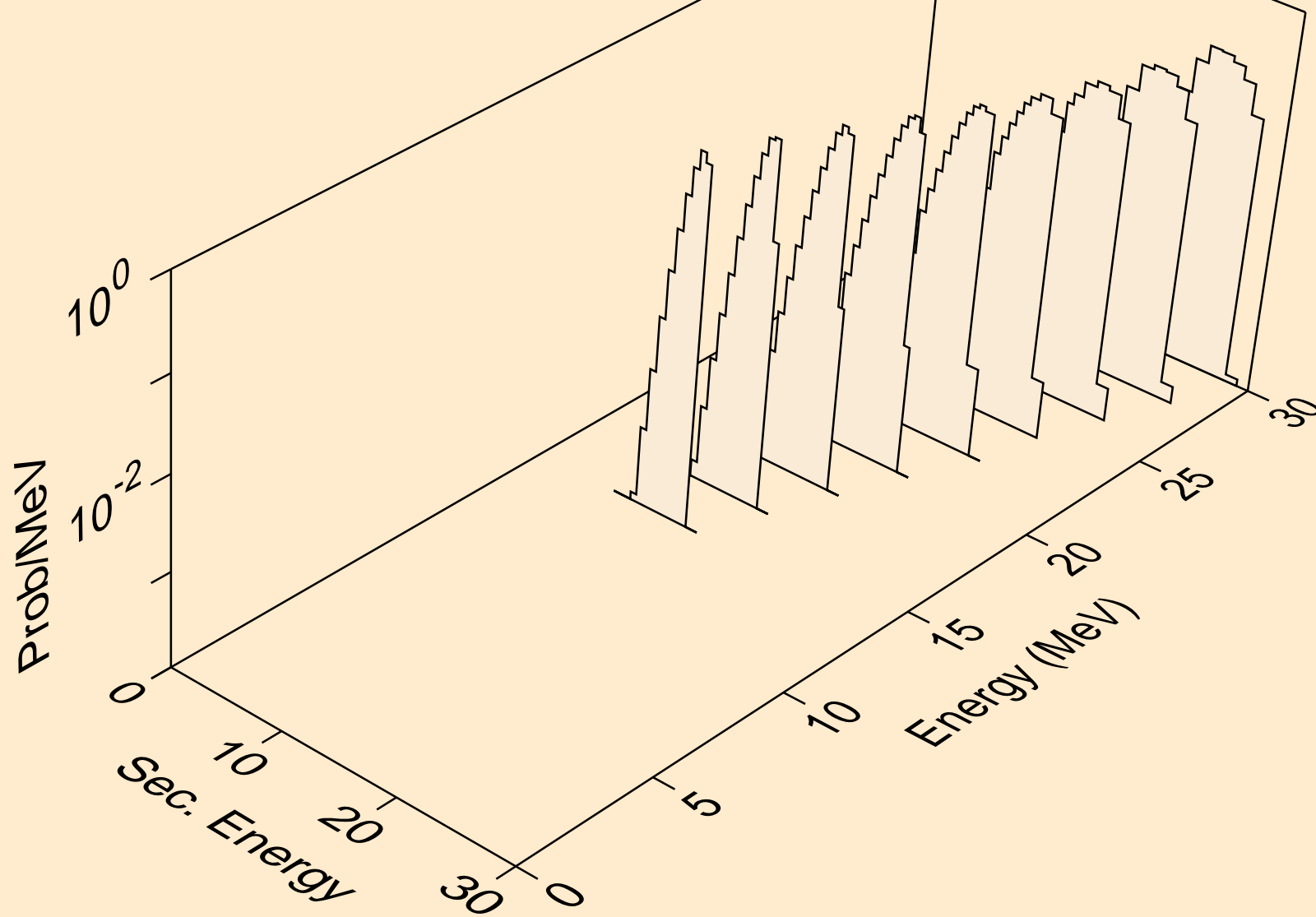
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He-3 emission for (s,x)



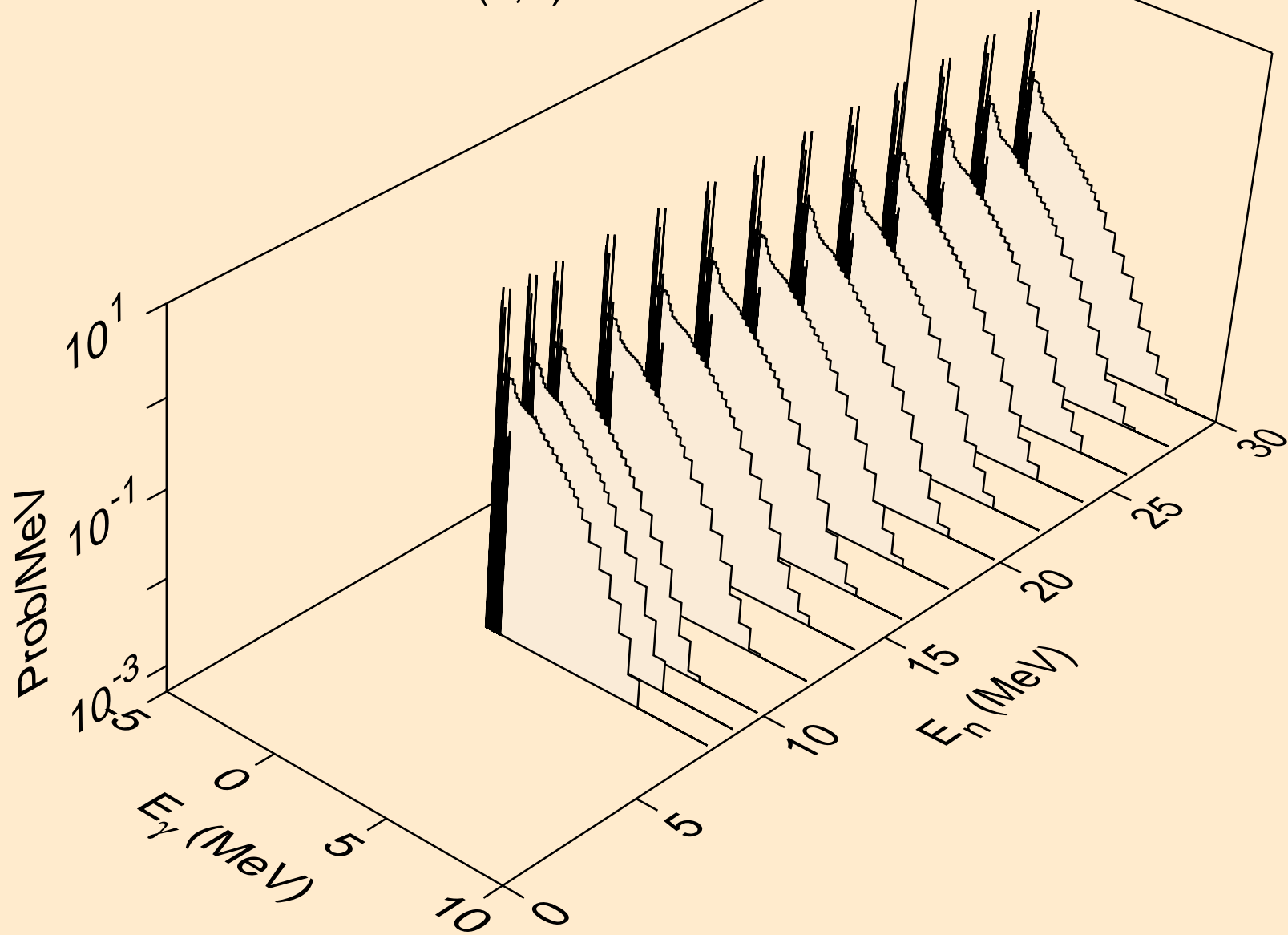
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He-3 emission for (s,n\*)he3



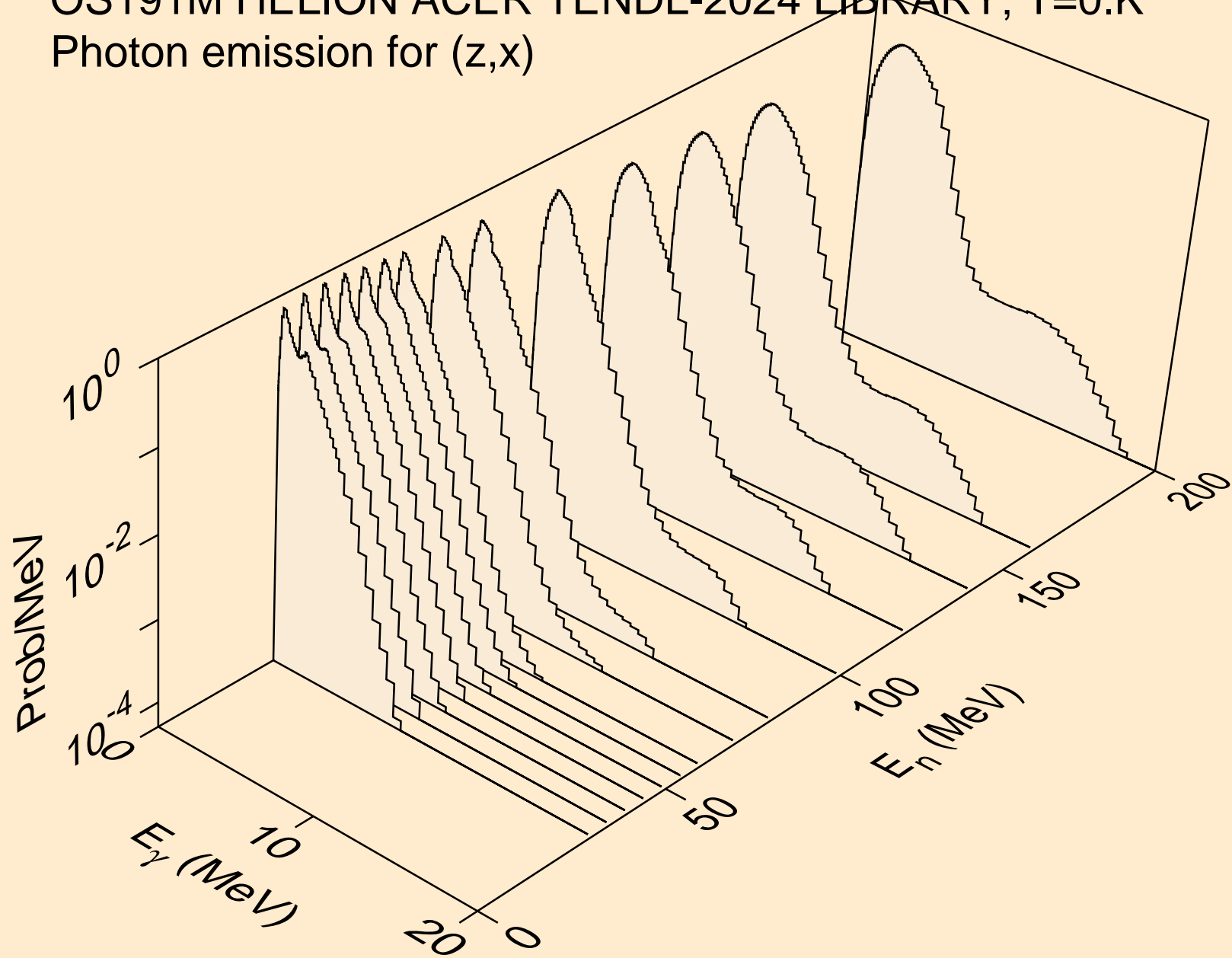
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He-3 emission for inelastic



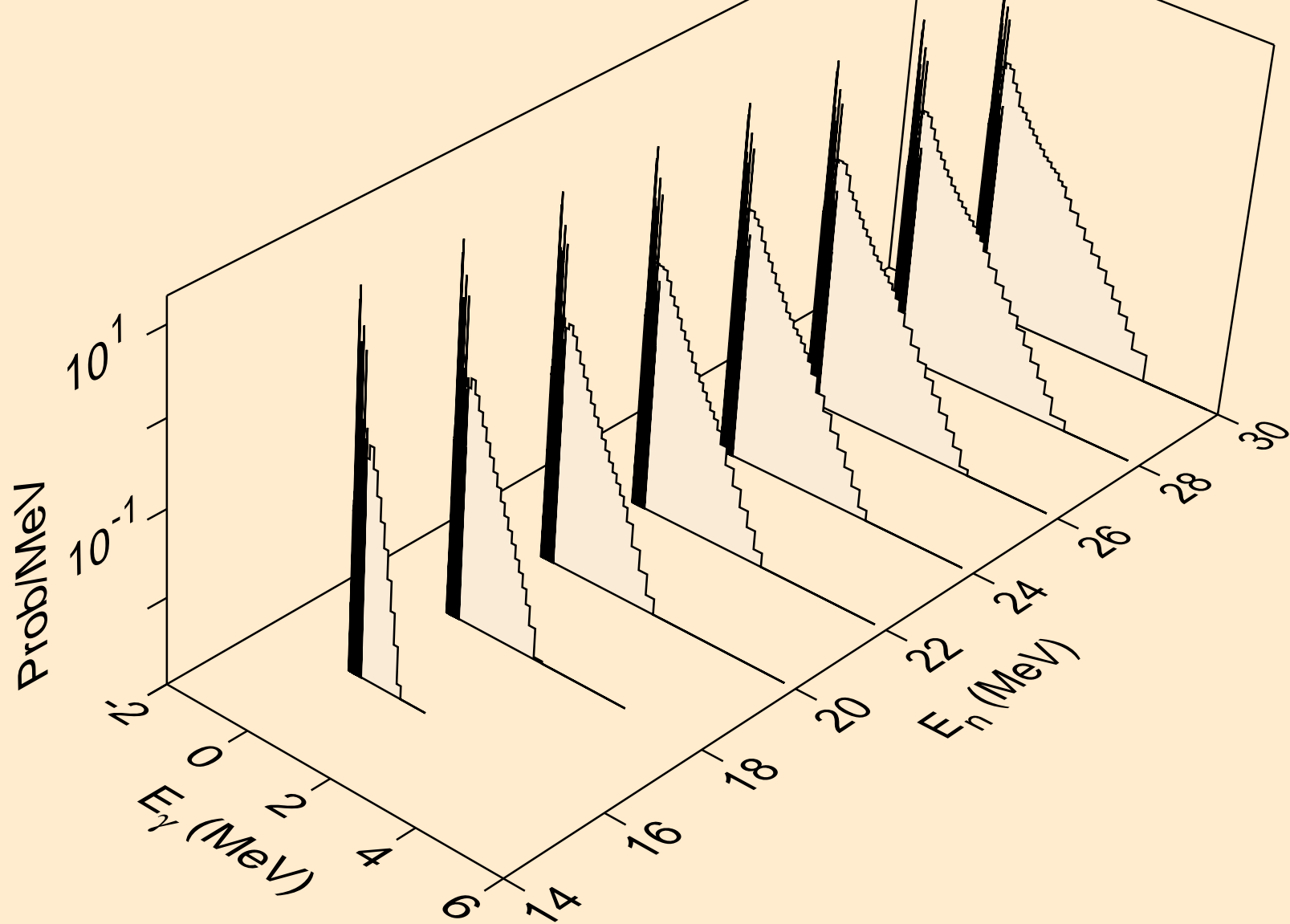
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Photon emission for (z,n)



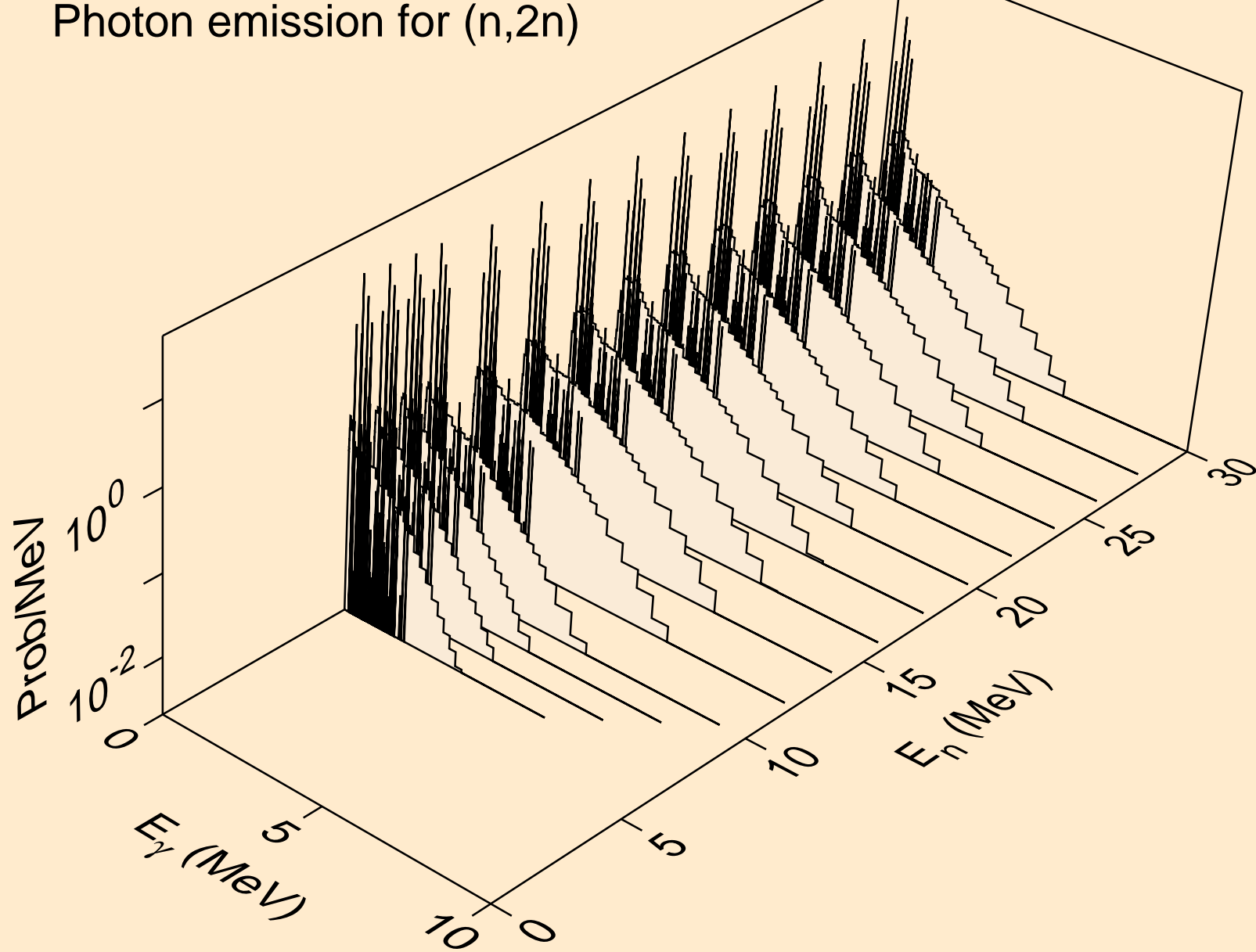
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Photon emission for (z,x)



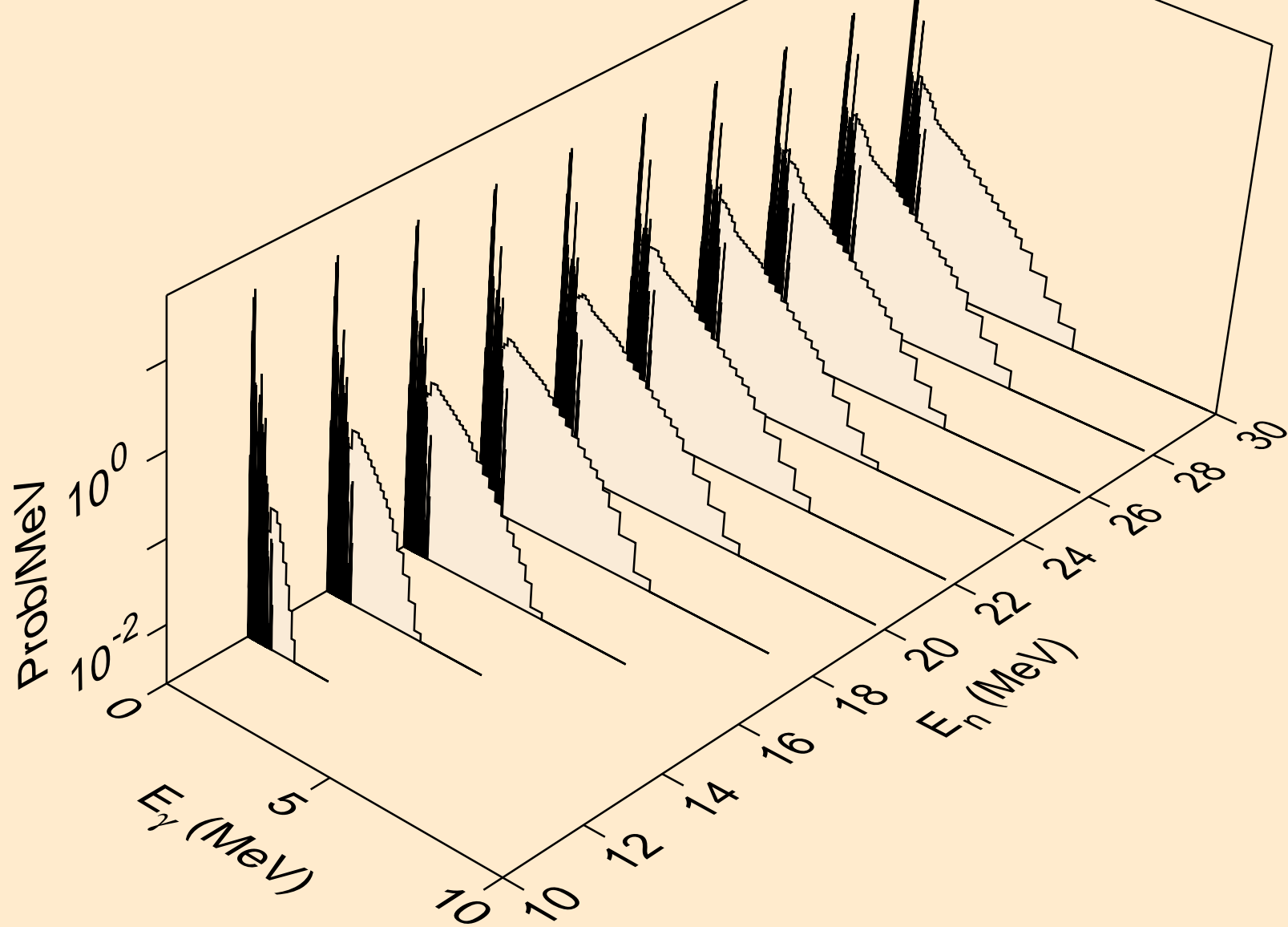
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Photon emission for (n,2nd)



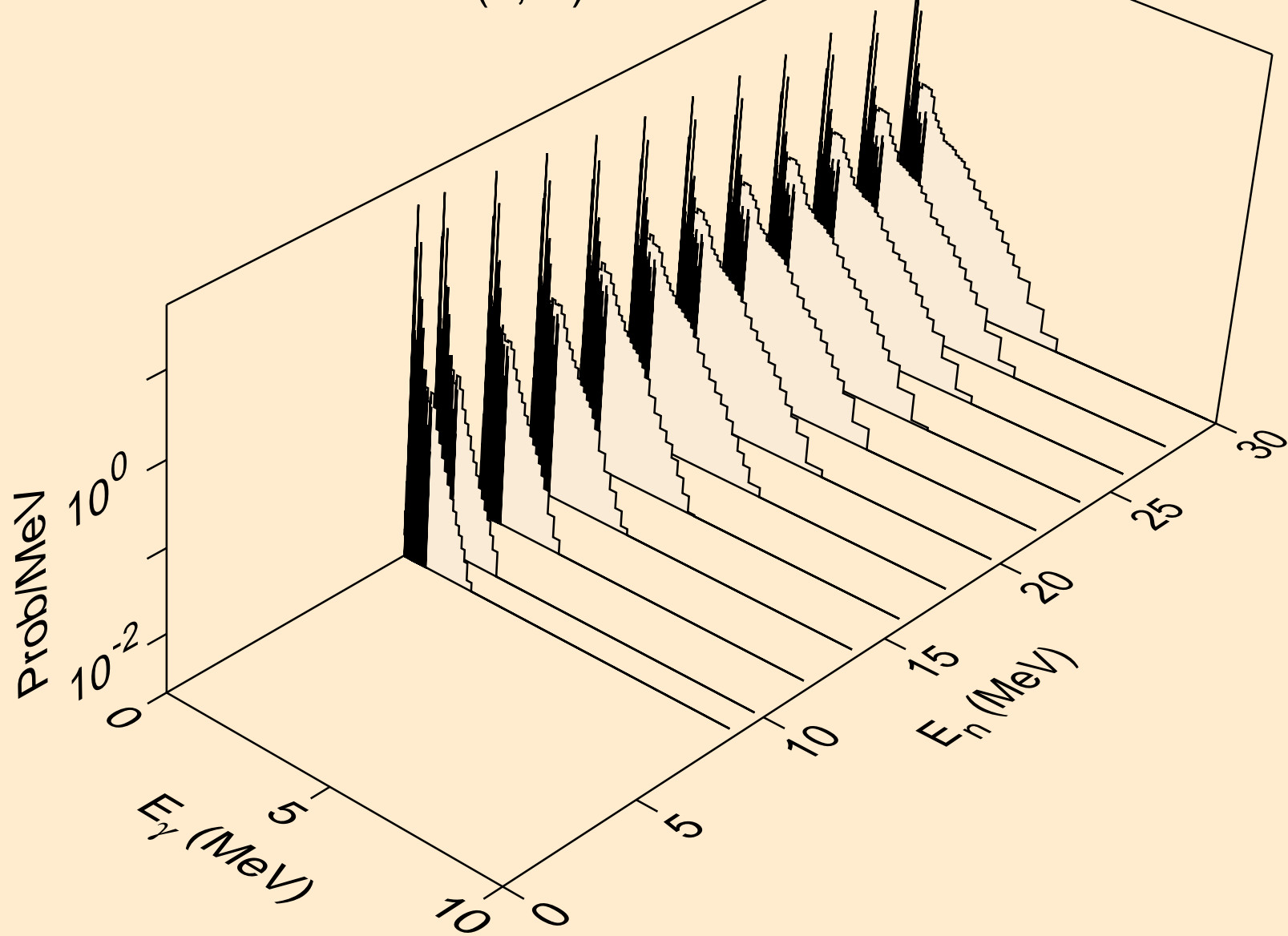
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Photon emission for (n,2n)



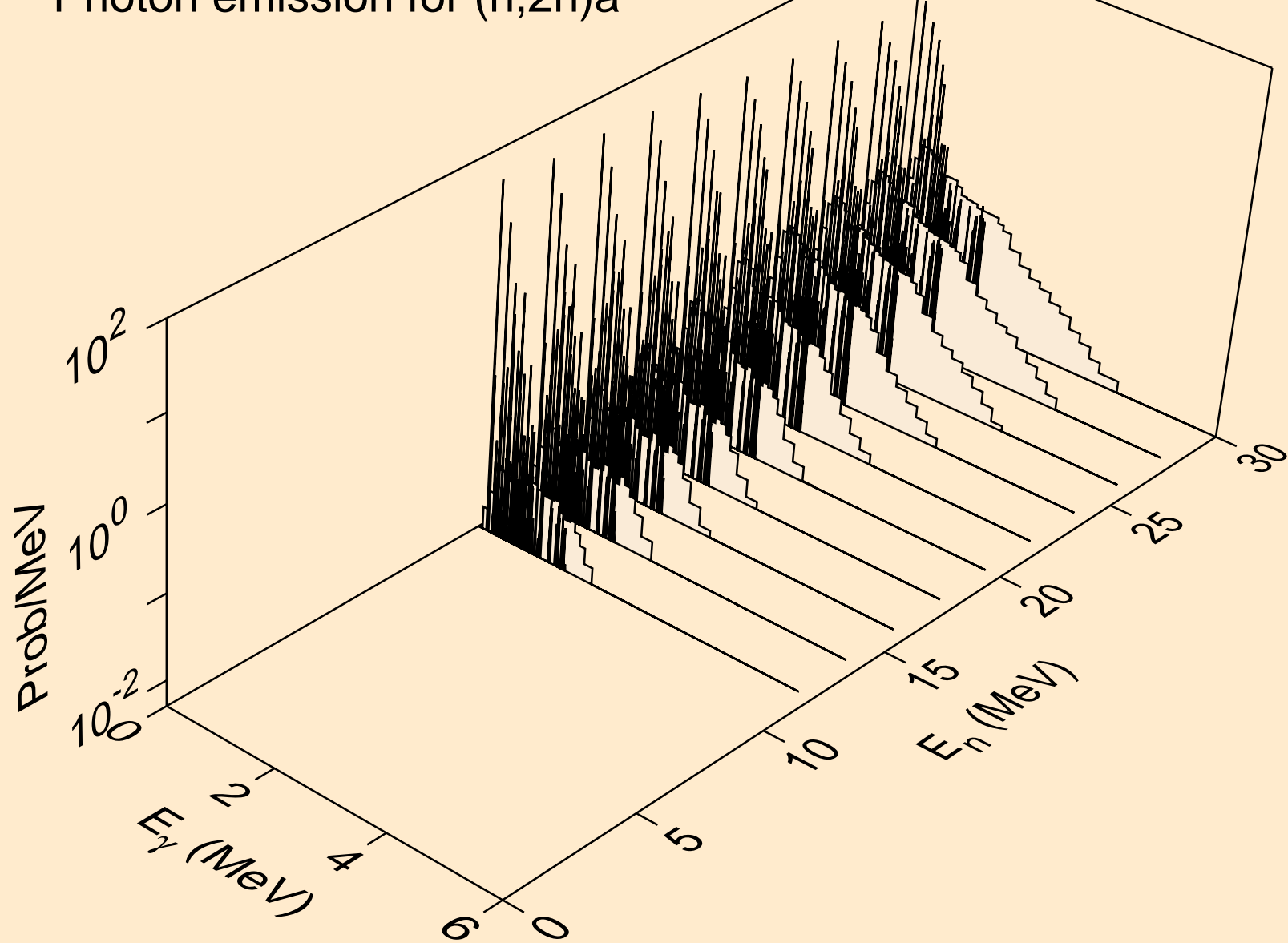
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Photon emission for (n,3n)



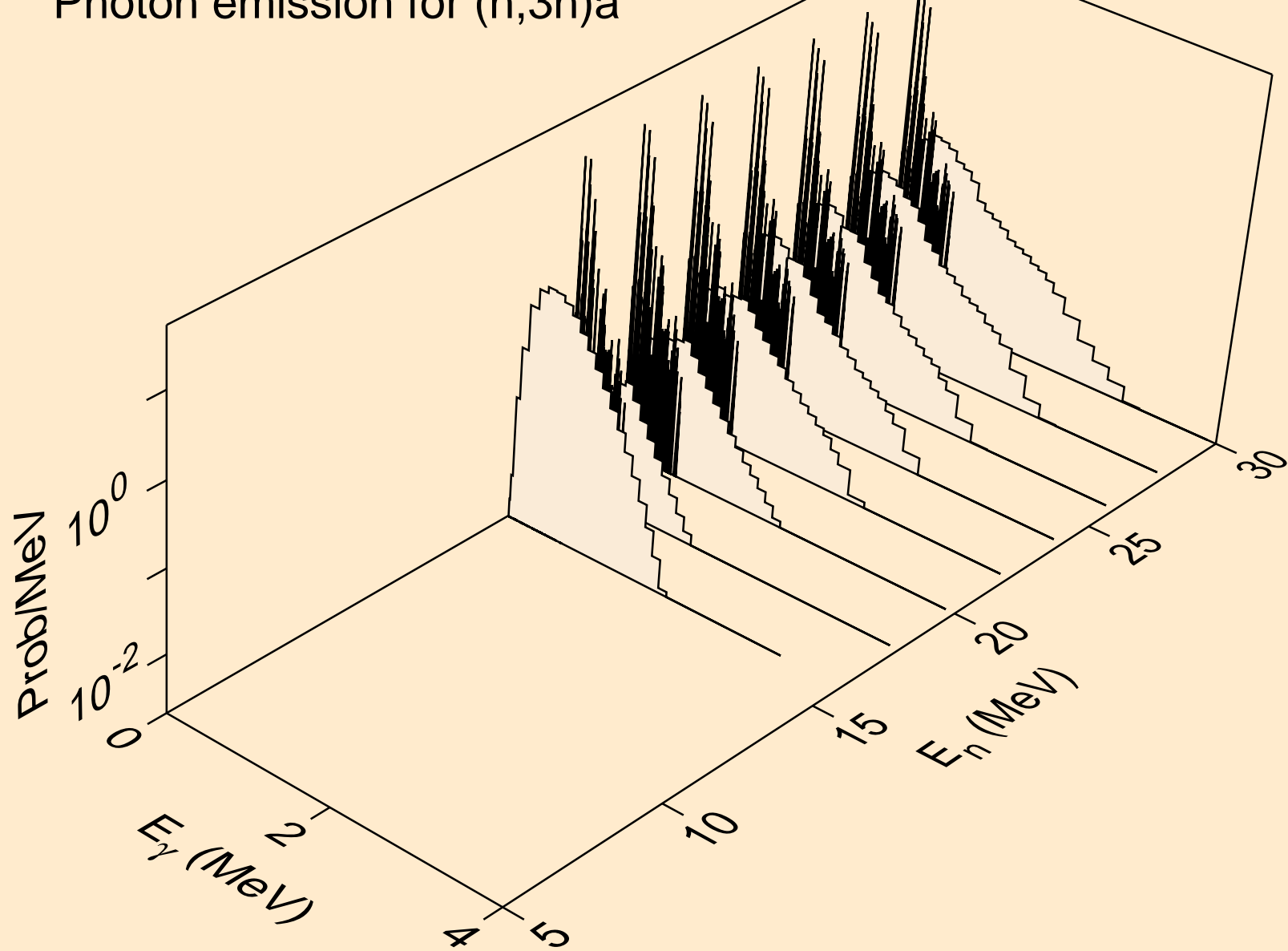
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Photon emission for (n,n\*)a



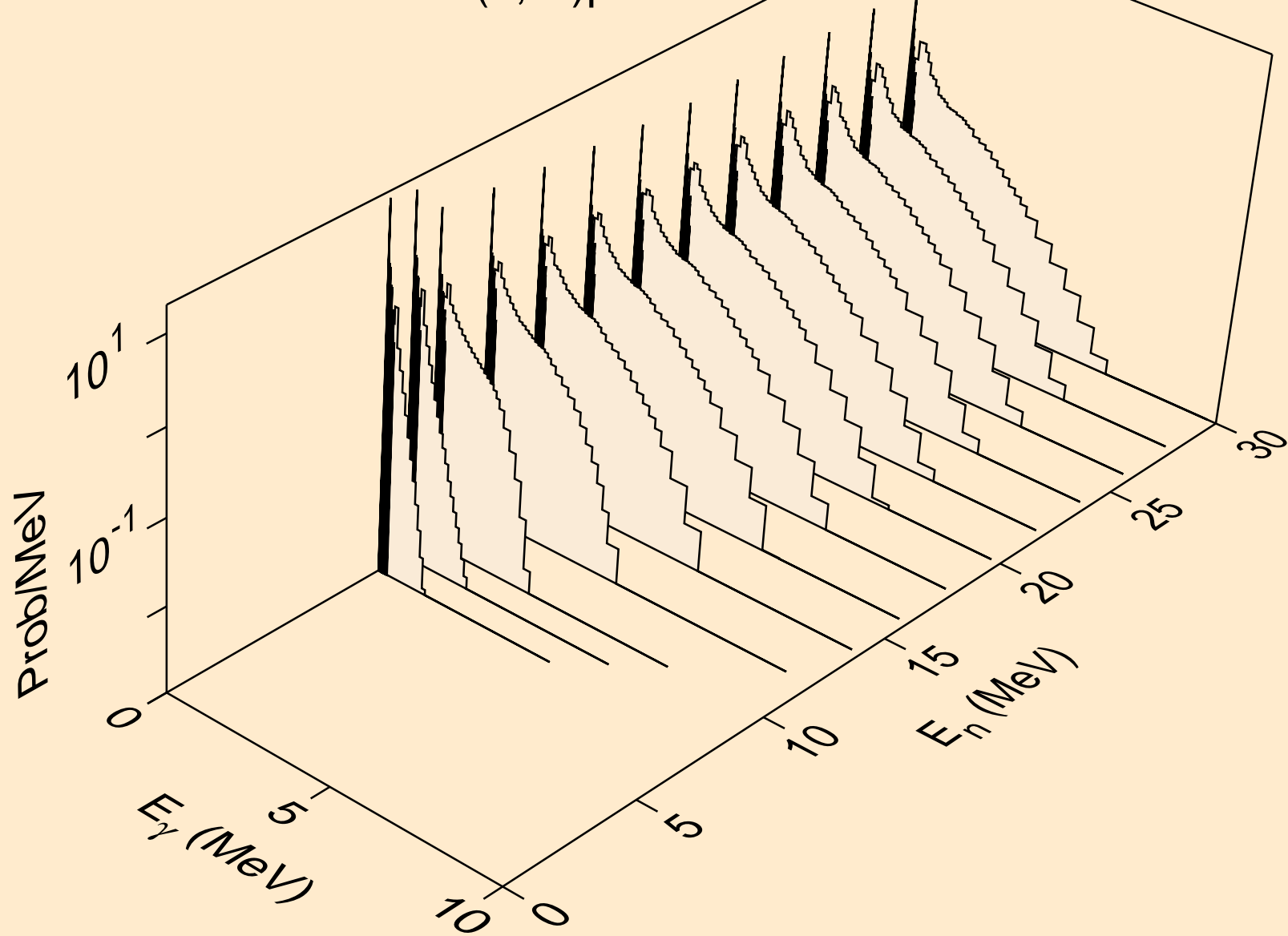
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Photon emission for (n,2n) $\alpha$



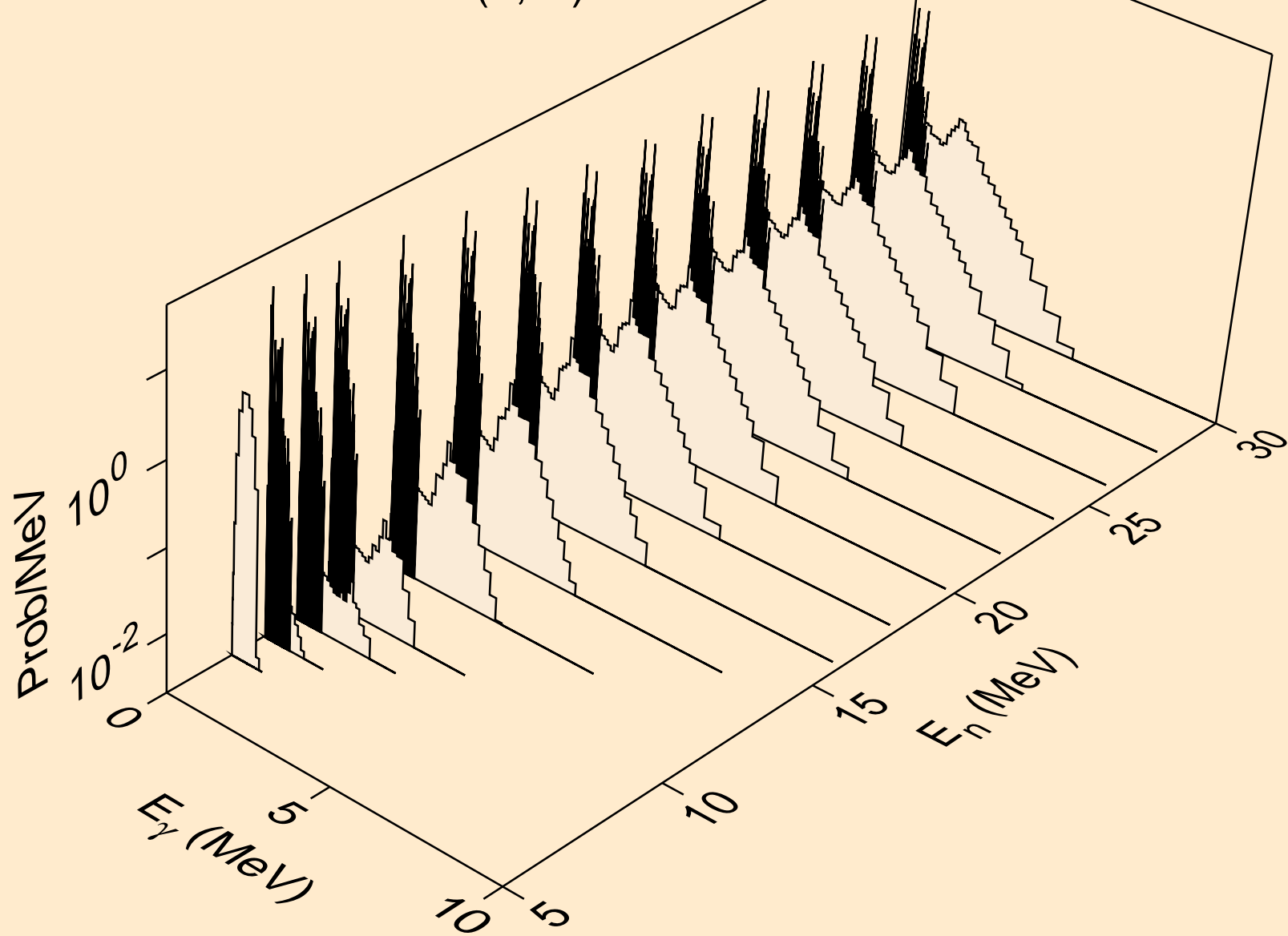
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Photon emission for (n,3n)a



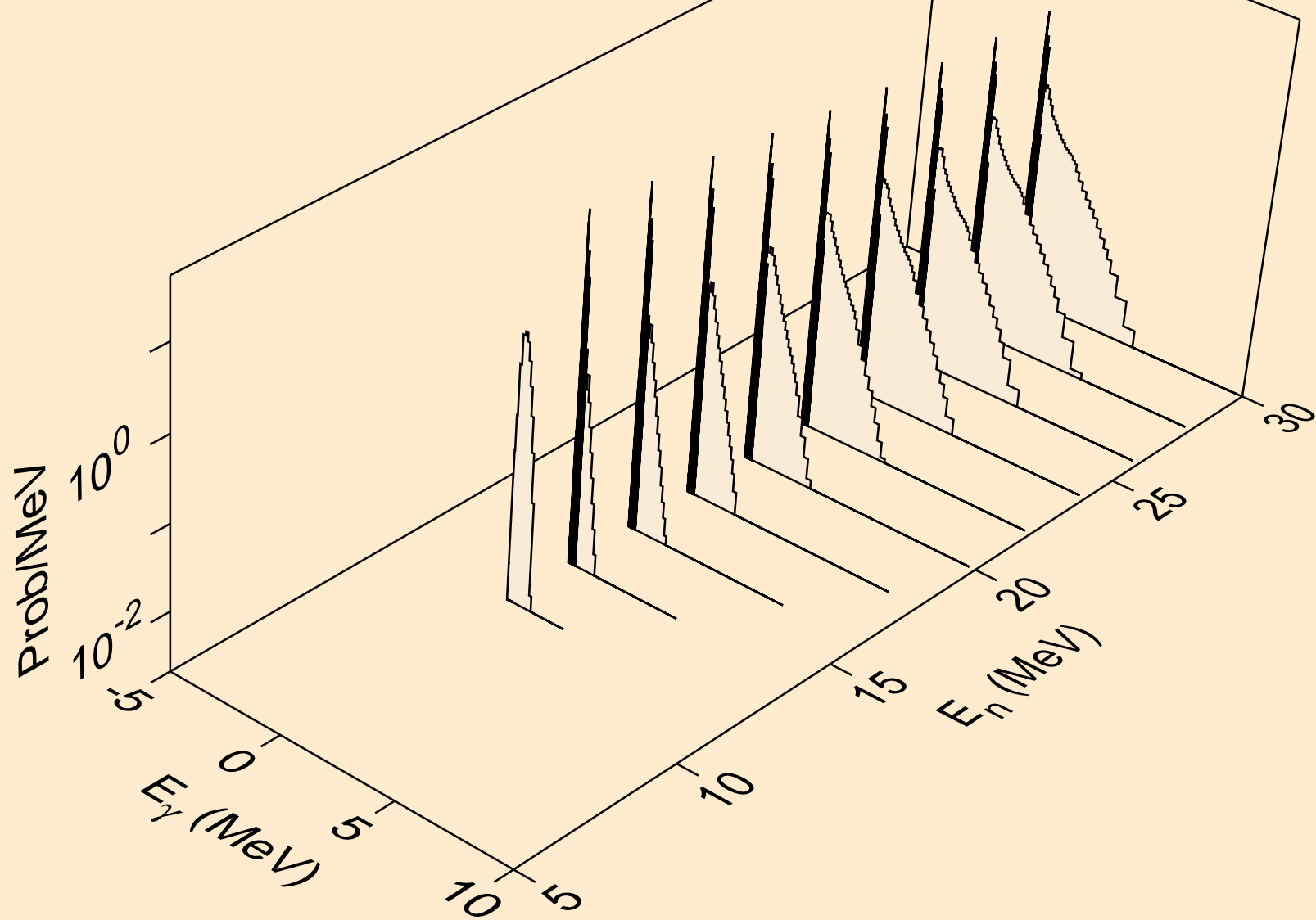
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Photon emission for (n,n\*)p



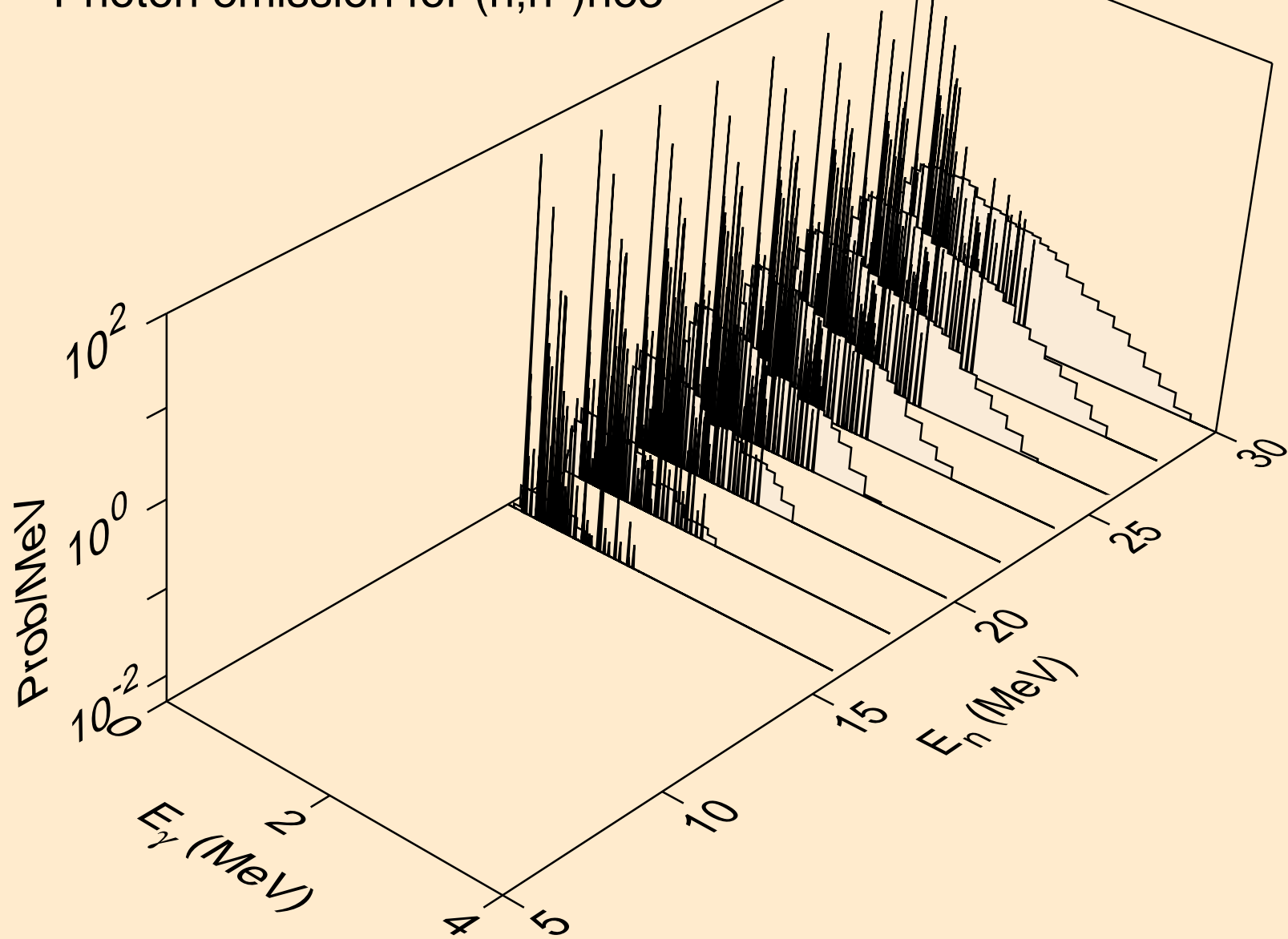
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Photon emission for (n,n\*)d



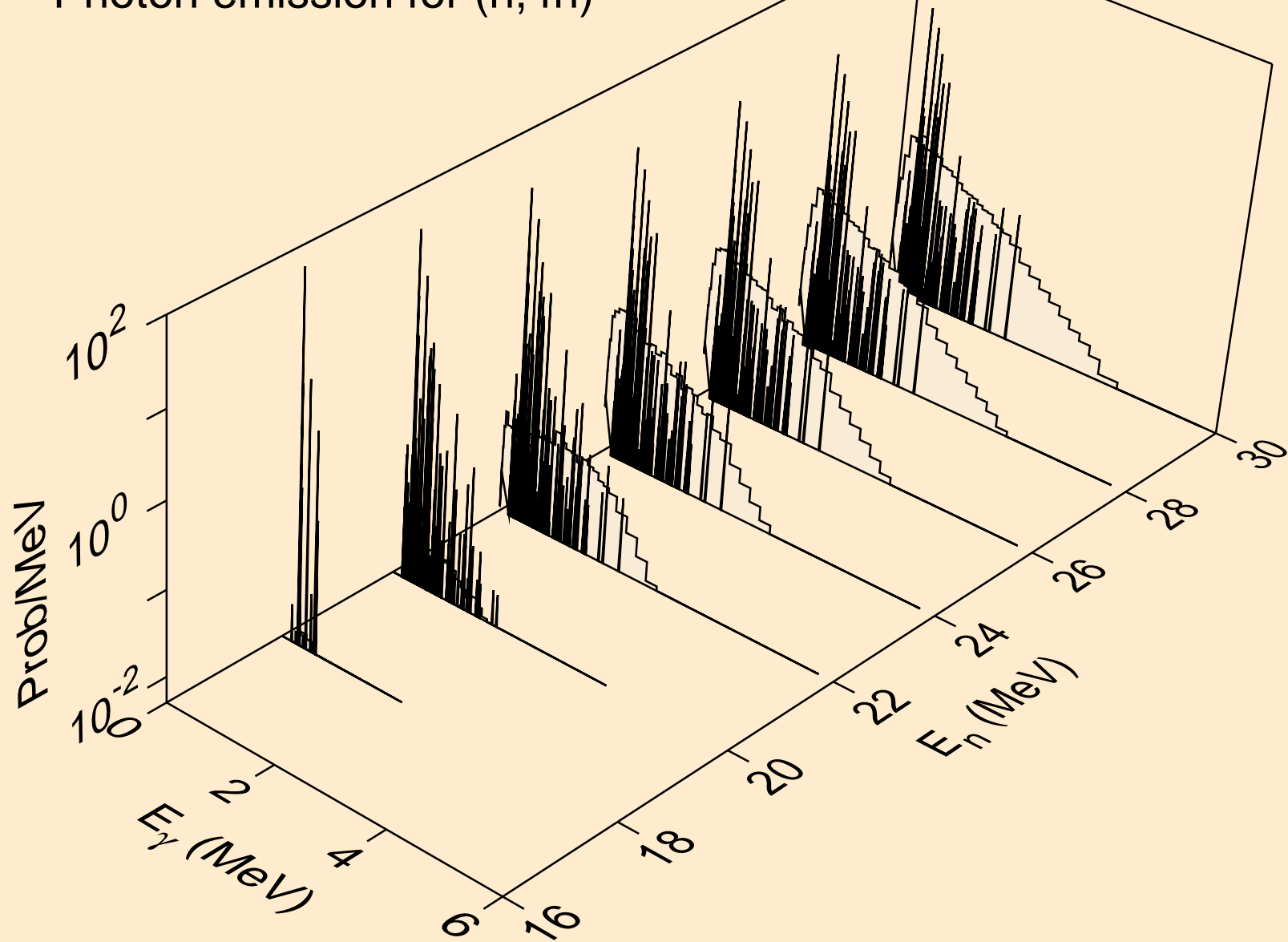
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Photon emission for (n,n\*)t



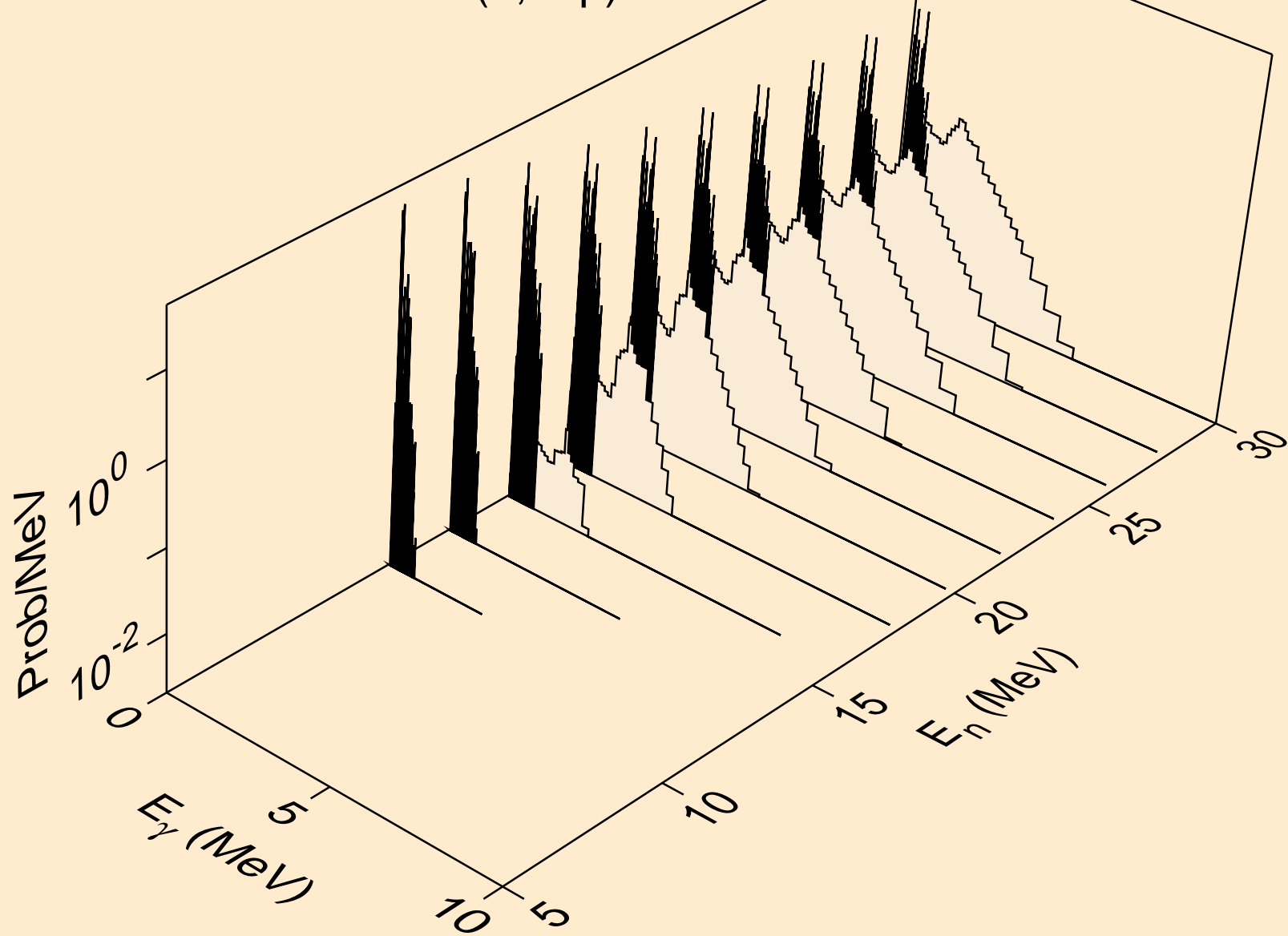
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Photon emission for (n,n\*)he3



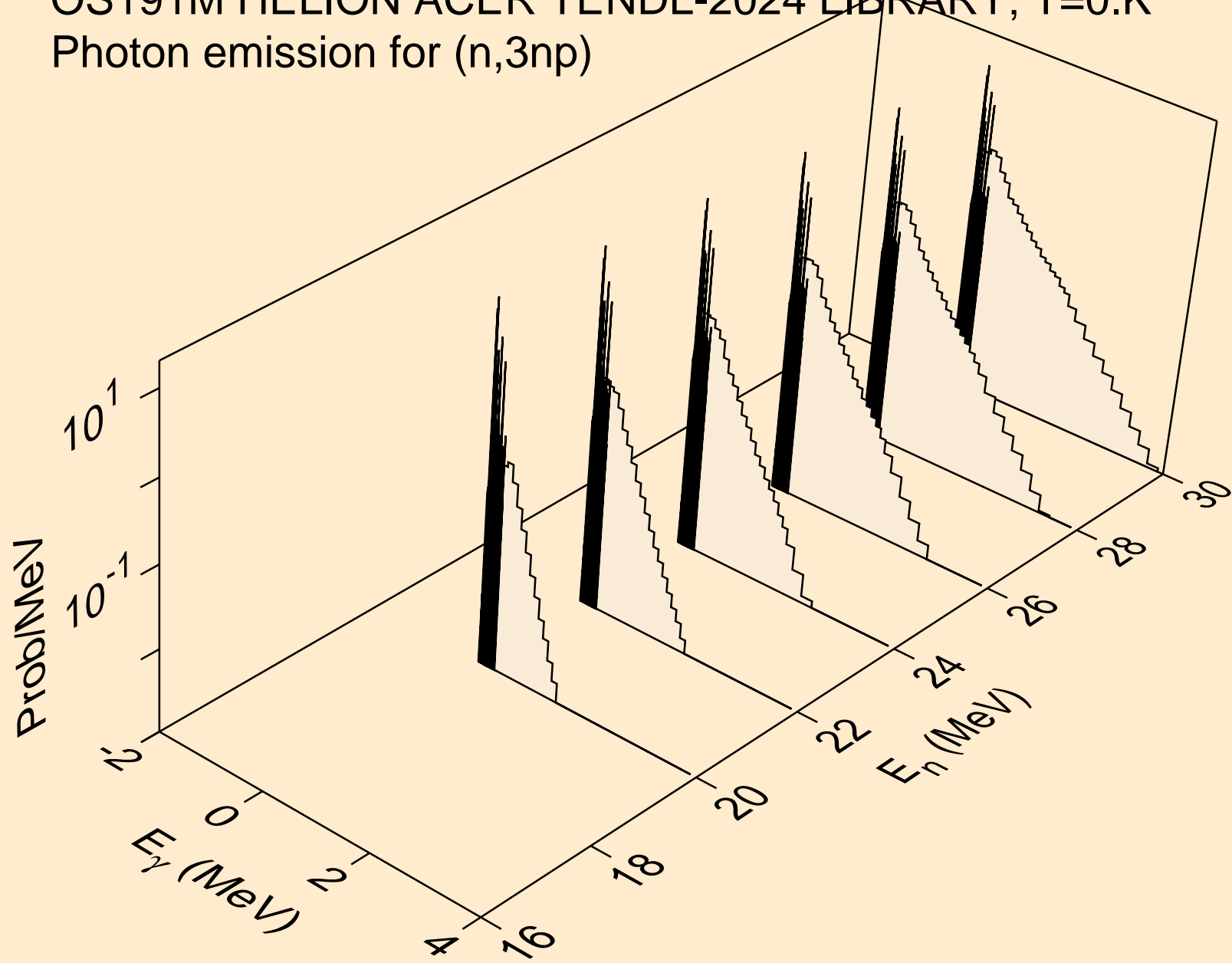
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Photon emission for (n,4n)



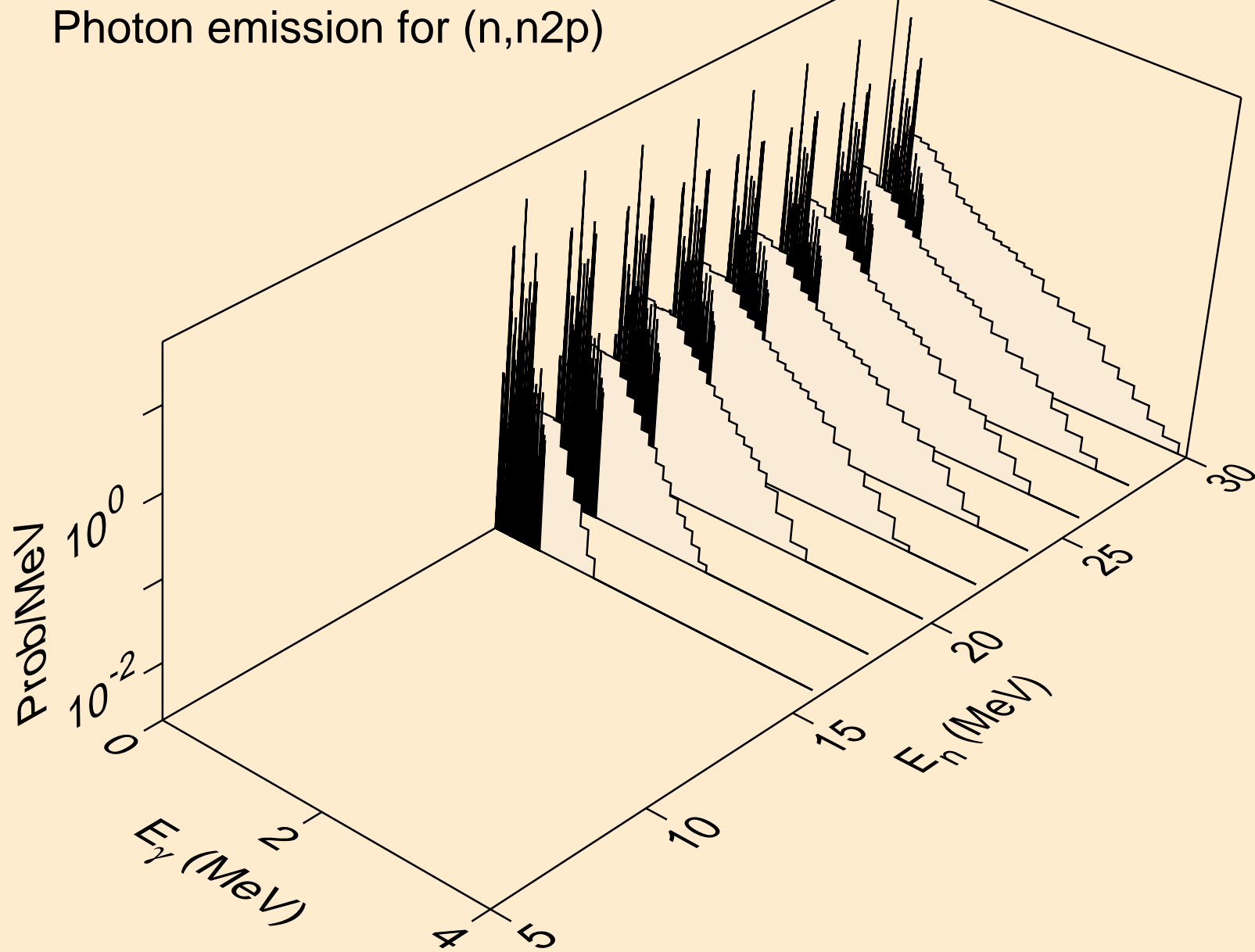
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Photon emission for (n,2np)



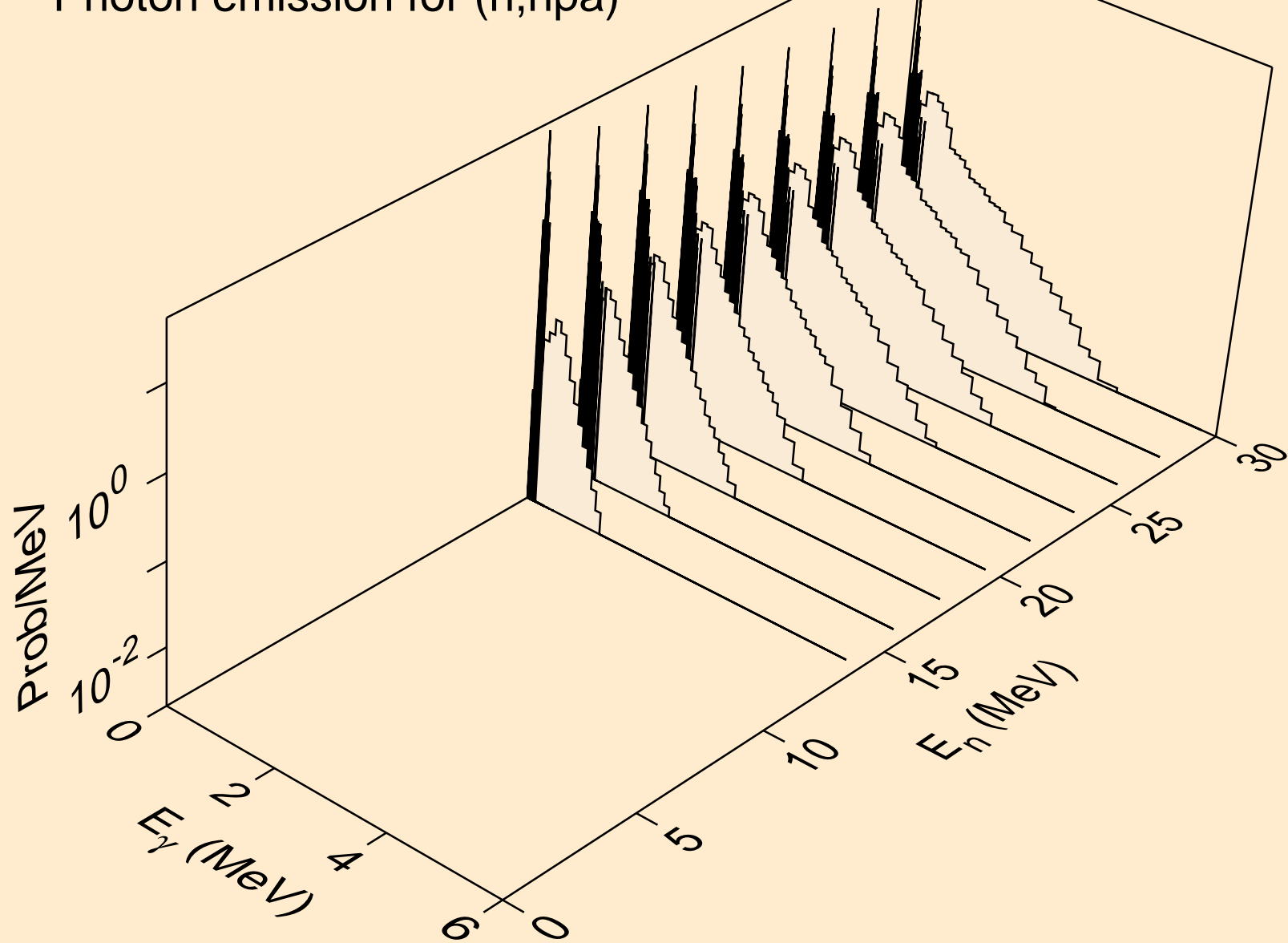
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Photon emission for (n,3np)



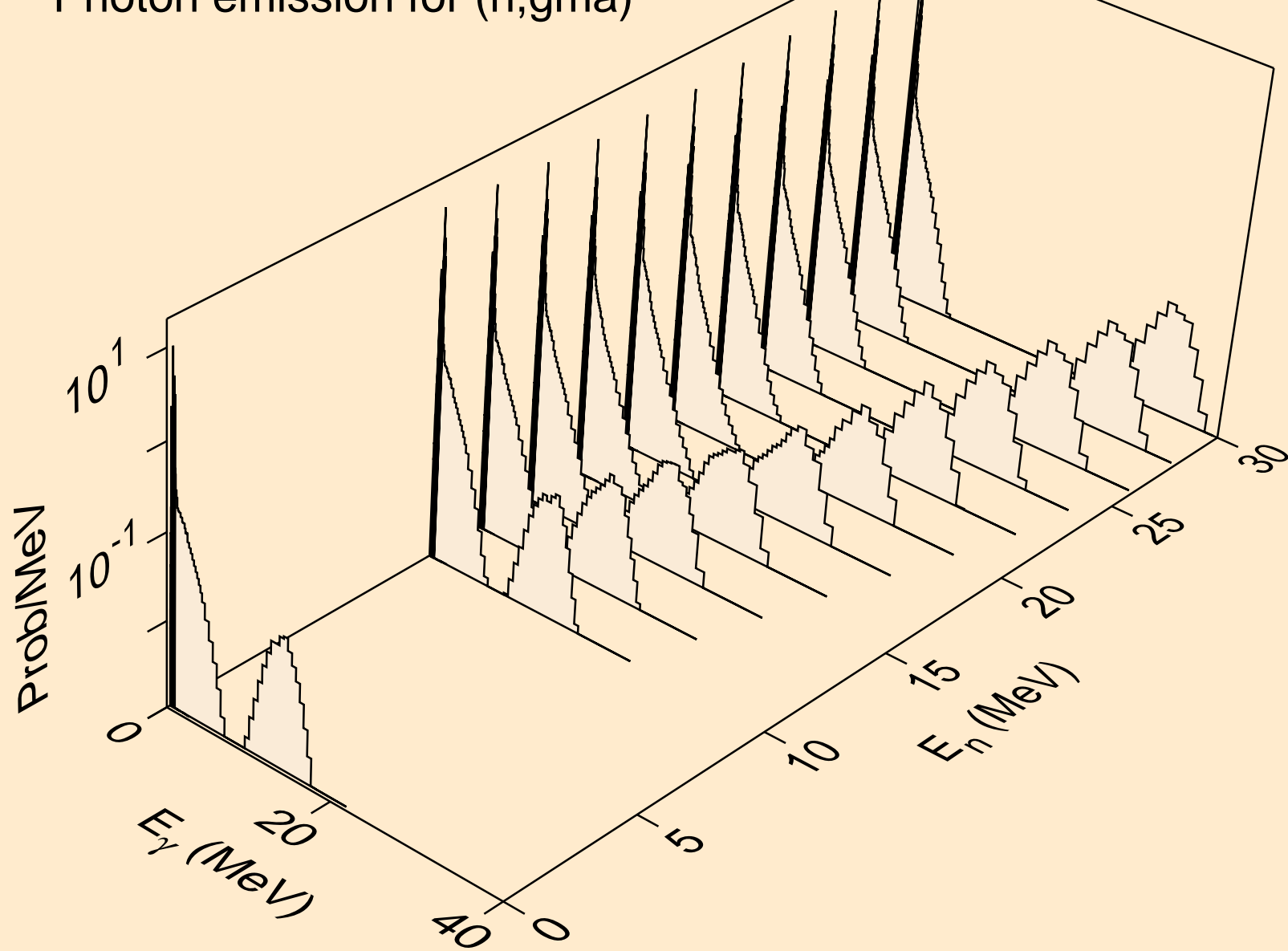
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Photon emission for (n,n2p)



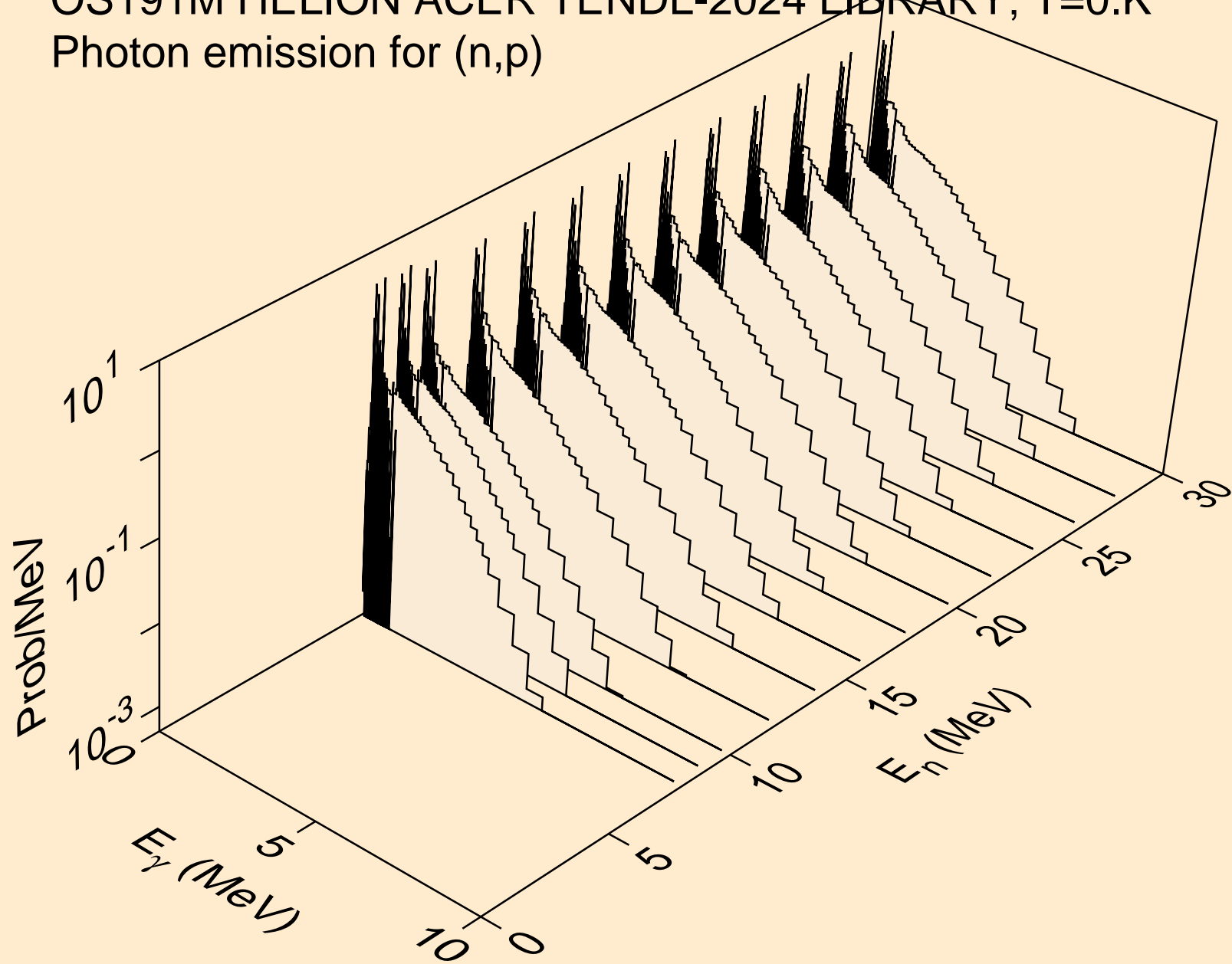
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Photon emission for (n,npa)



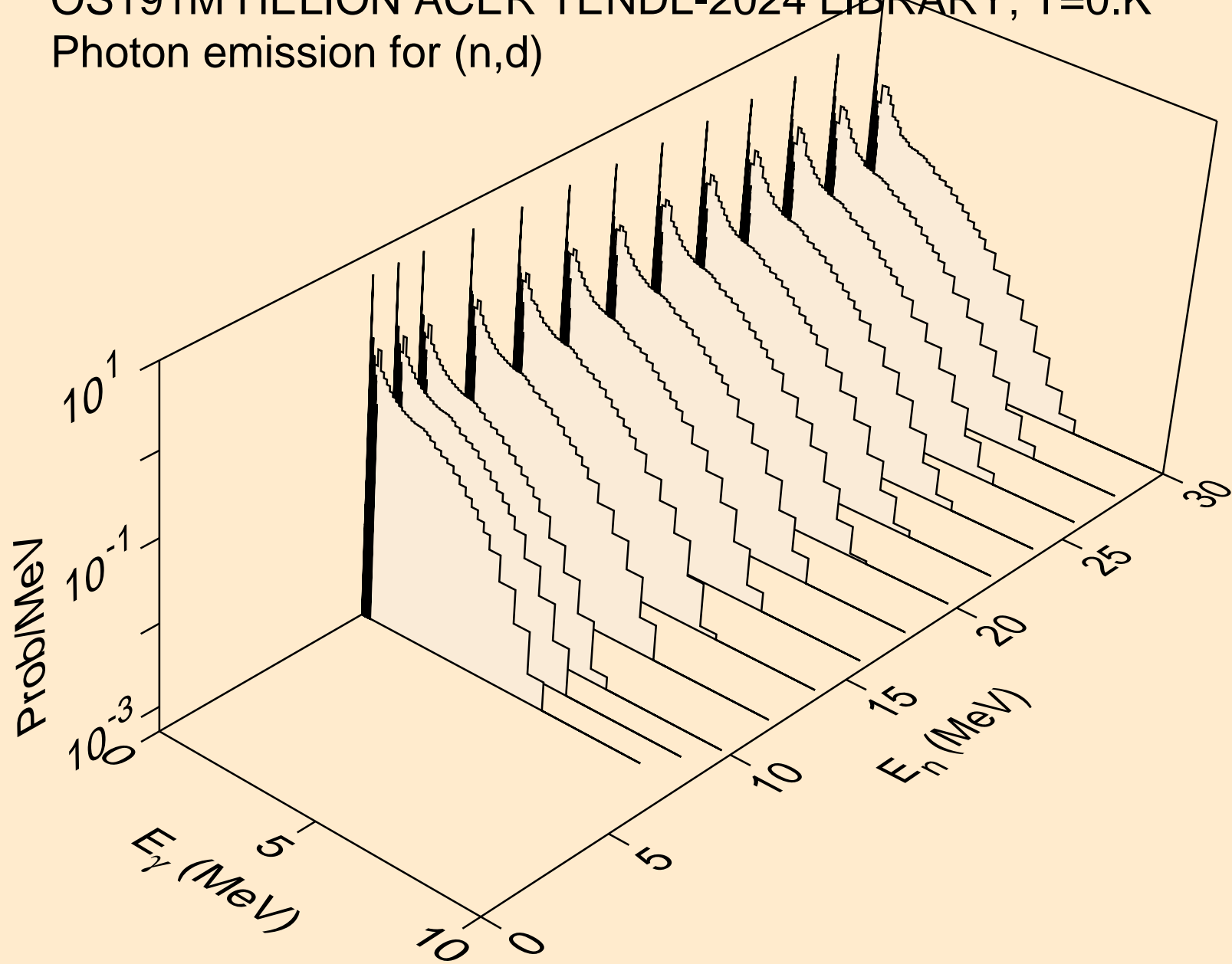
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Photon emission for (n,gma)



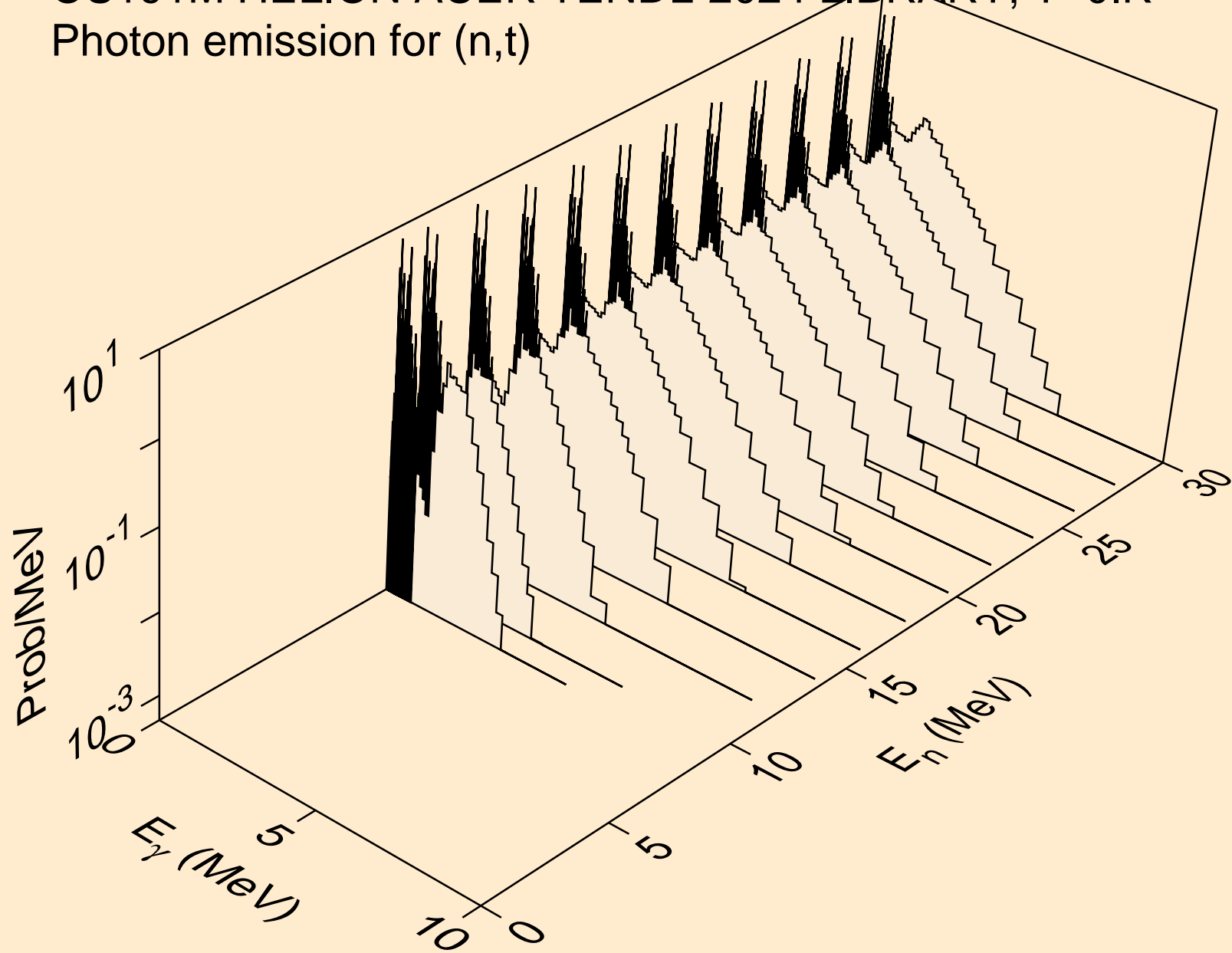
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Photon emission for (n,p)



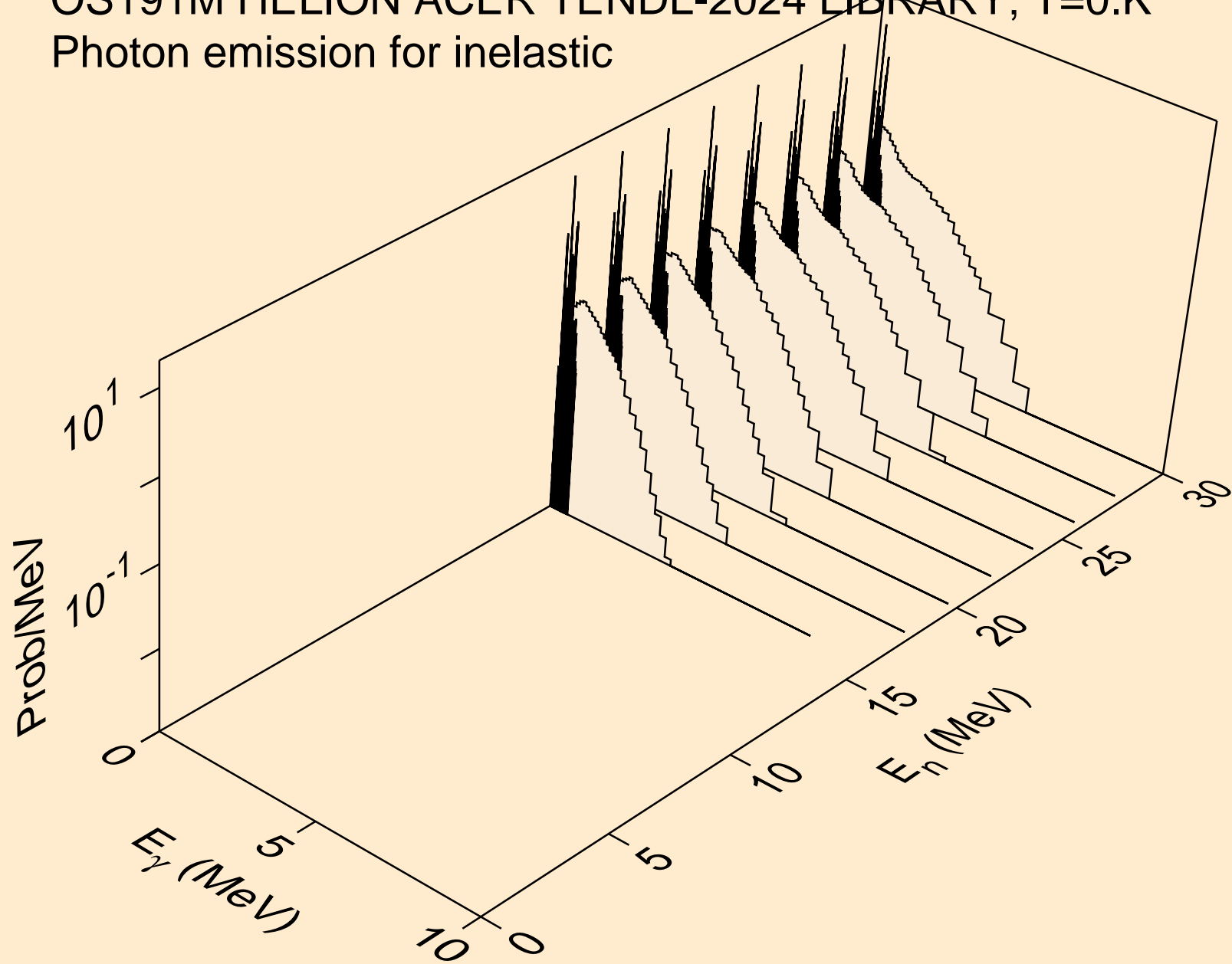
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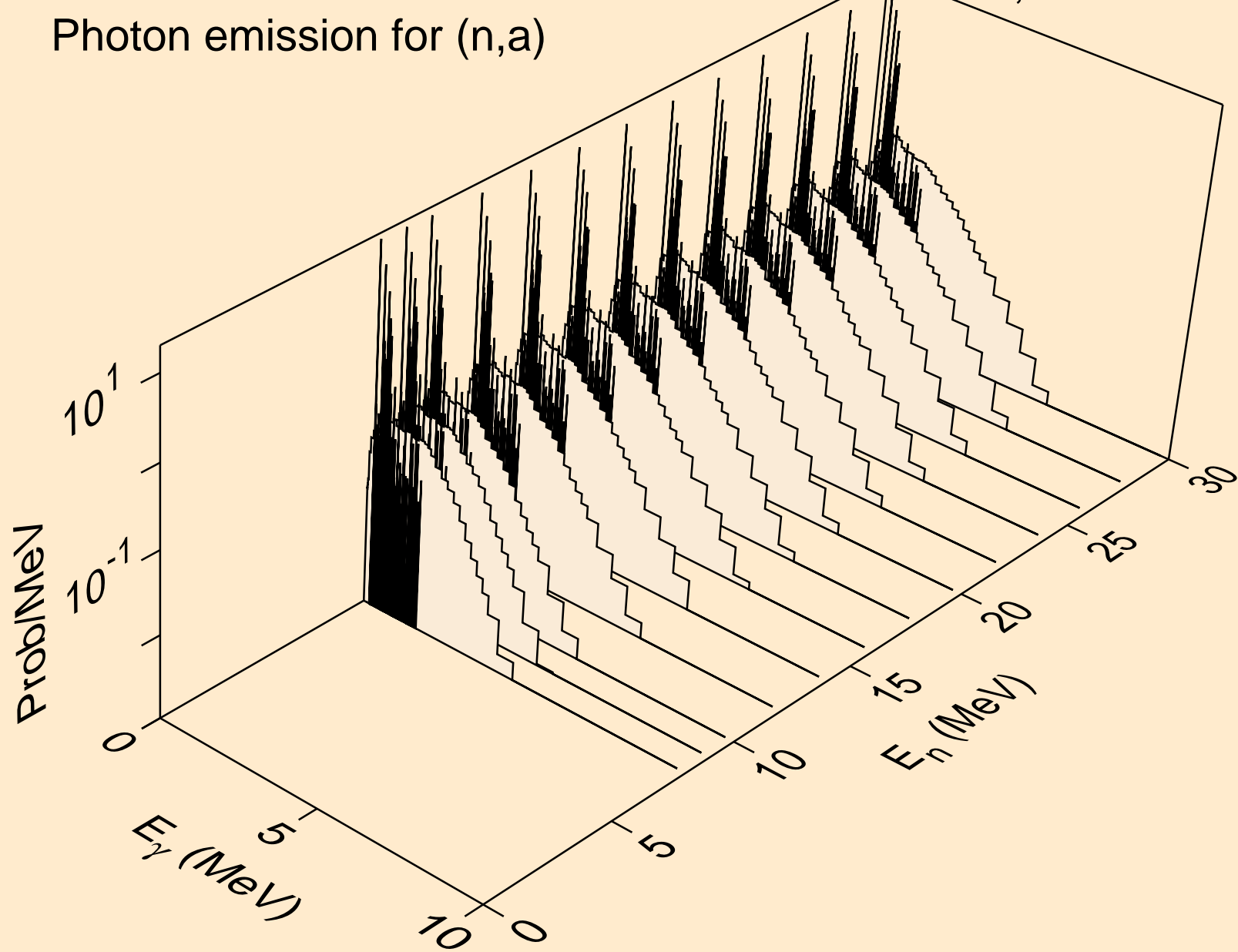
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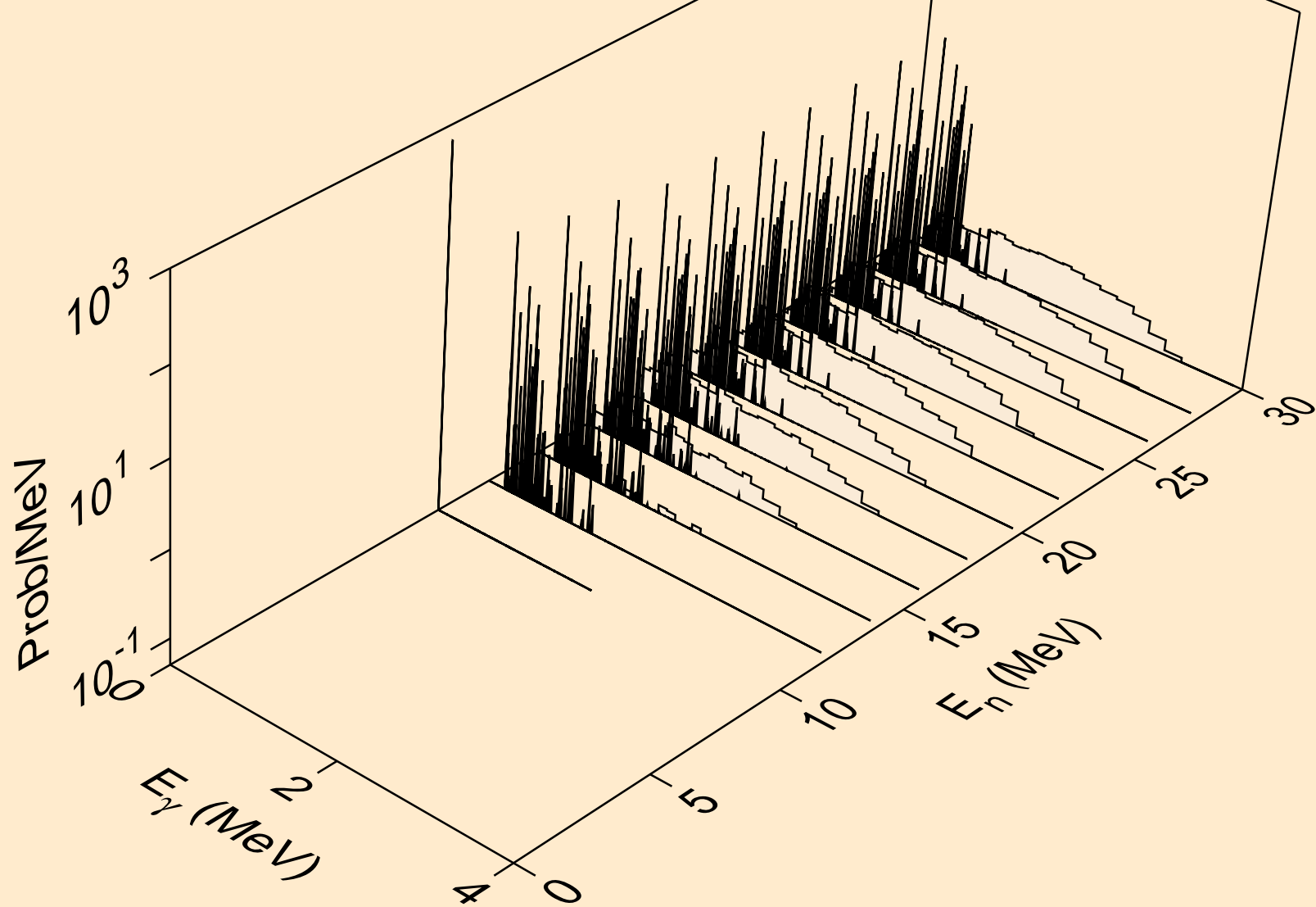
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Photon emission for inelastic



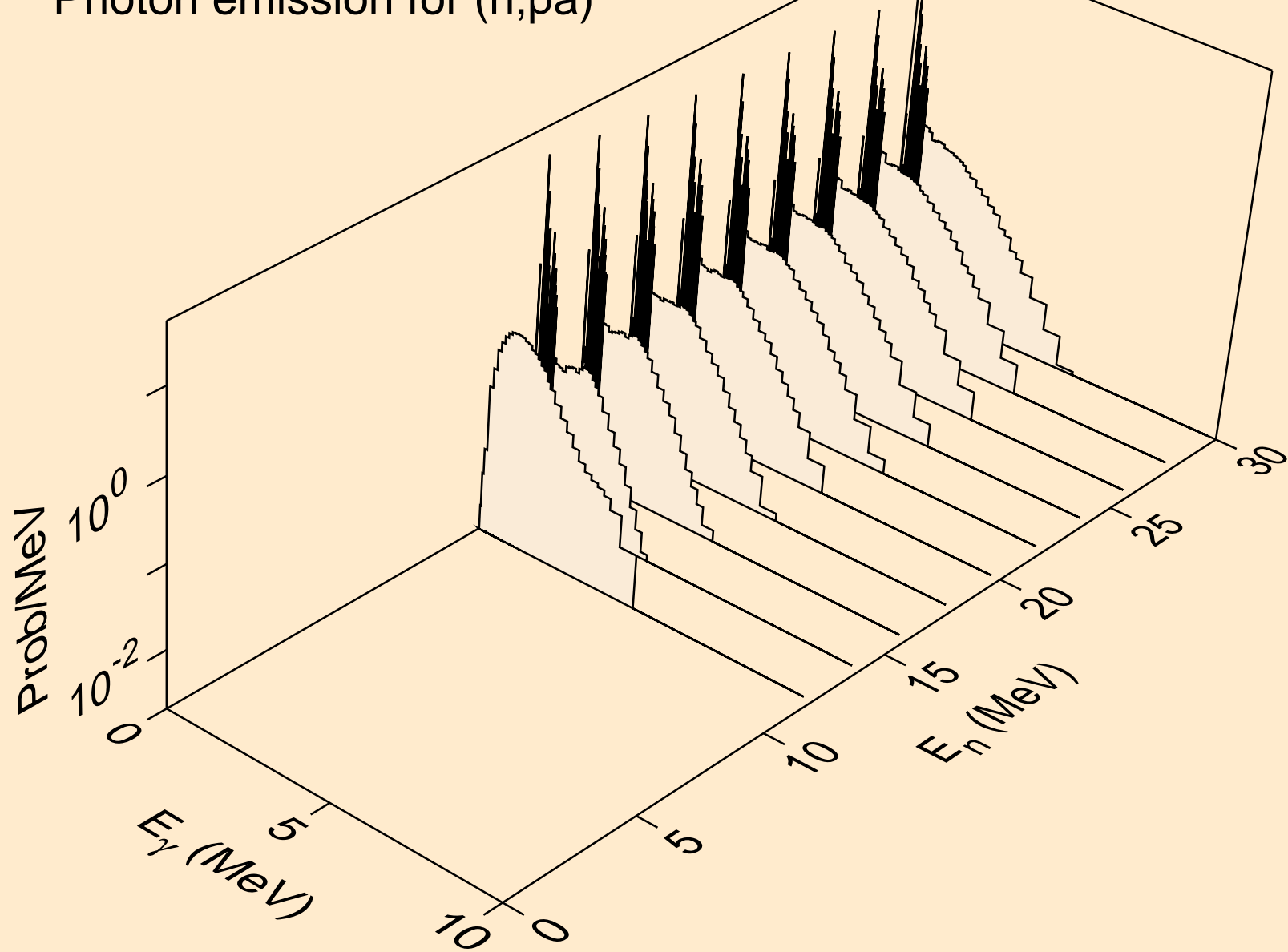
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Photon emission for (n,a)



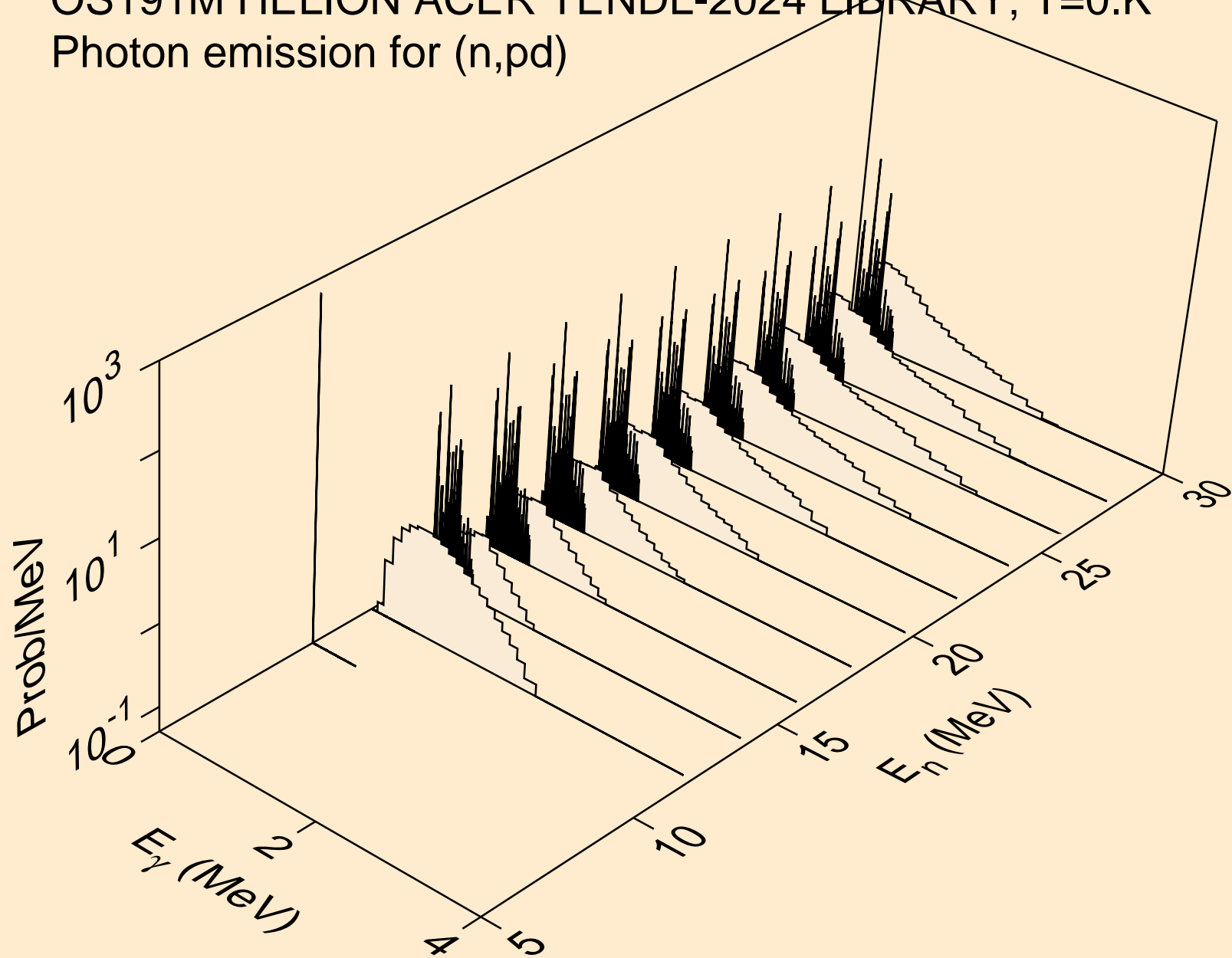
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Photon emission for (n,2p)



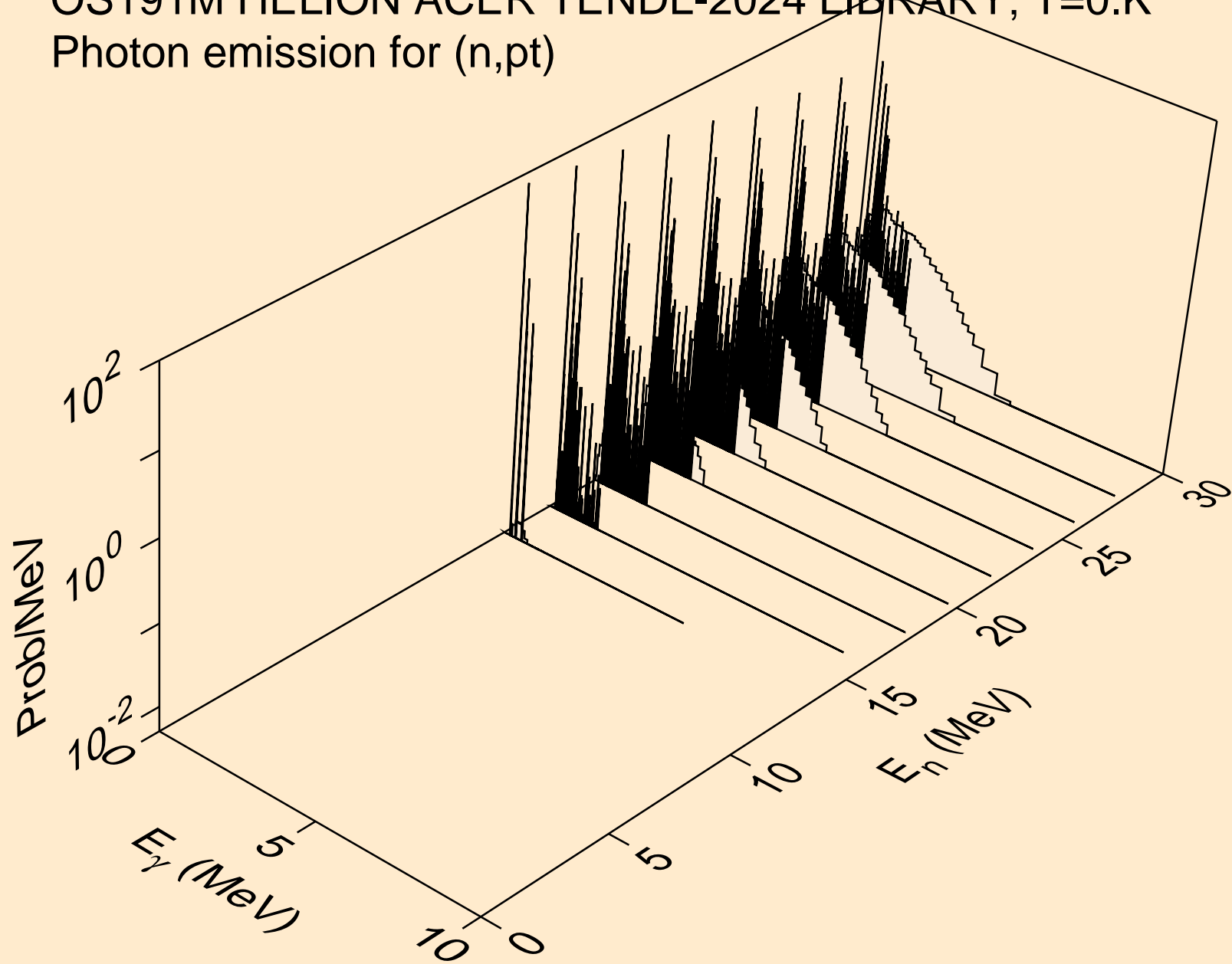
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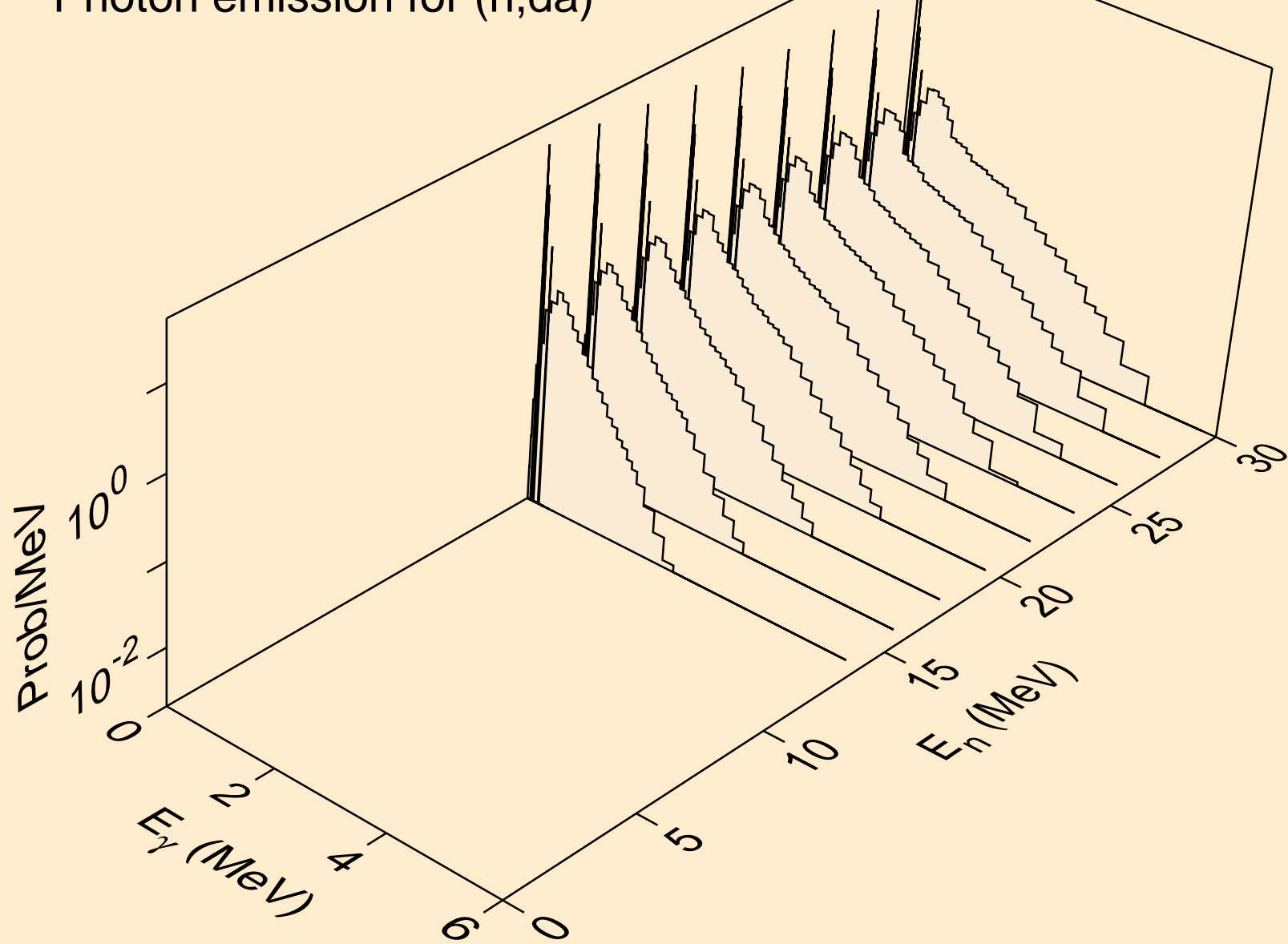
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Photon emission for (n,pd)



OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)

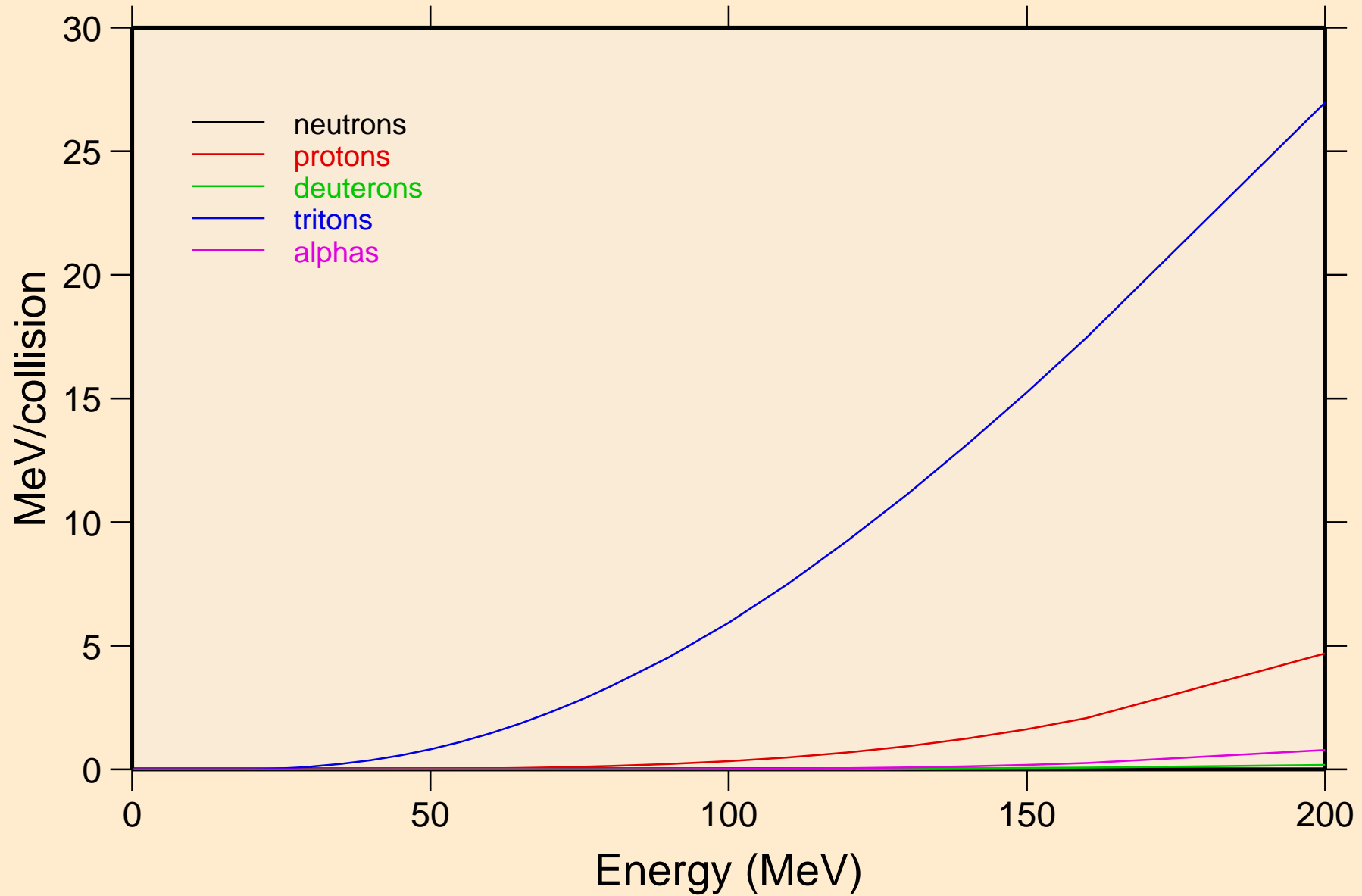


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Photon emission for (n,da)

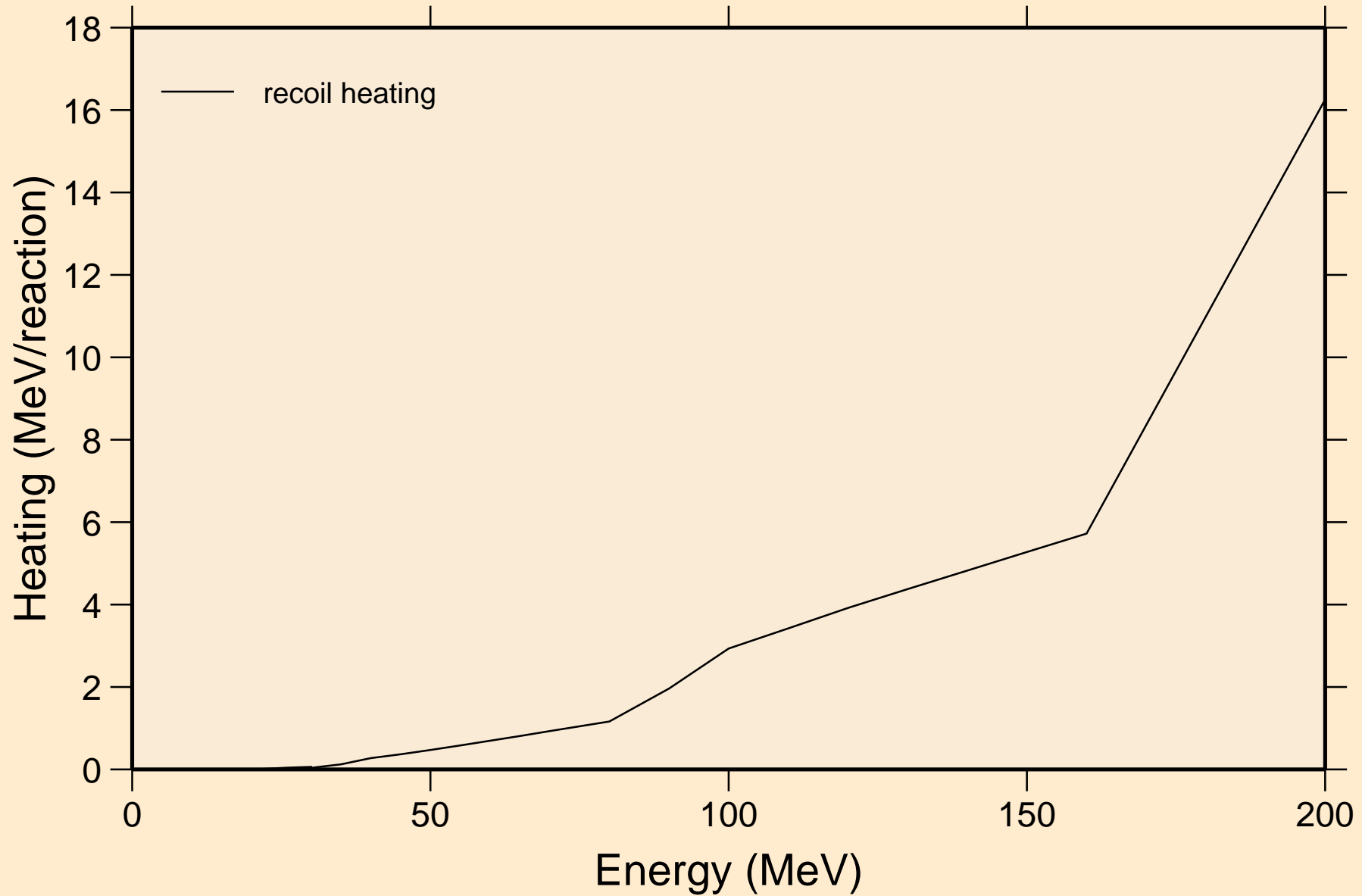


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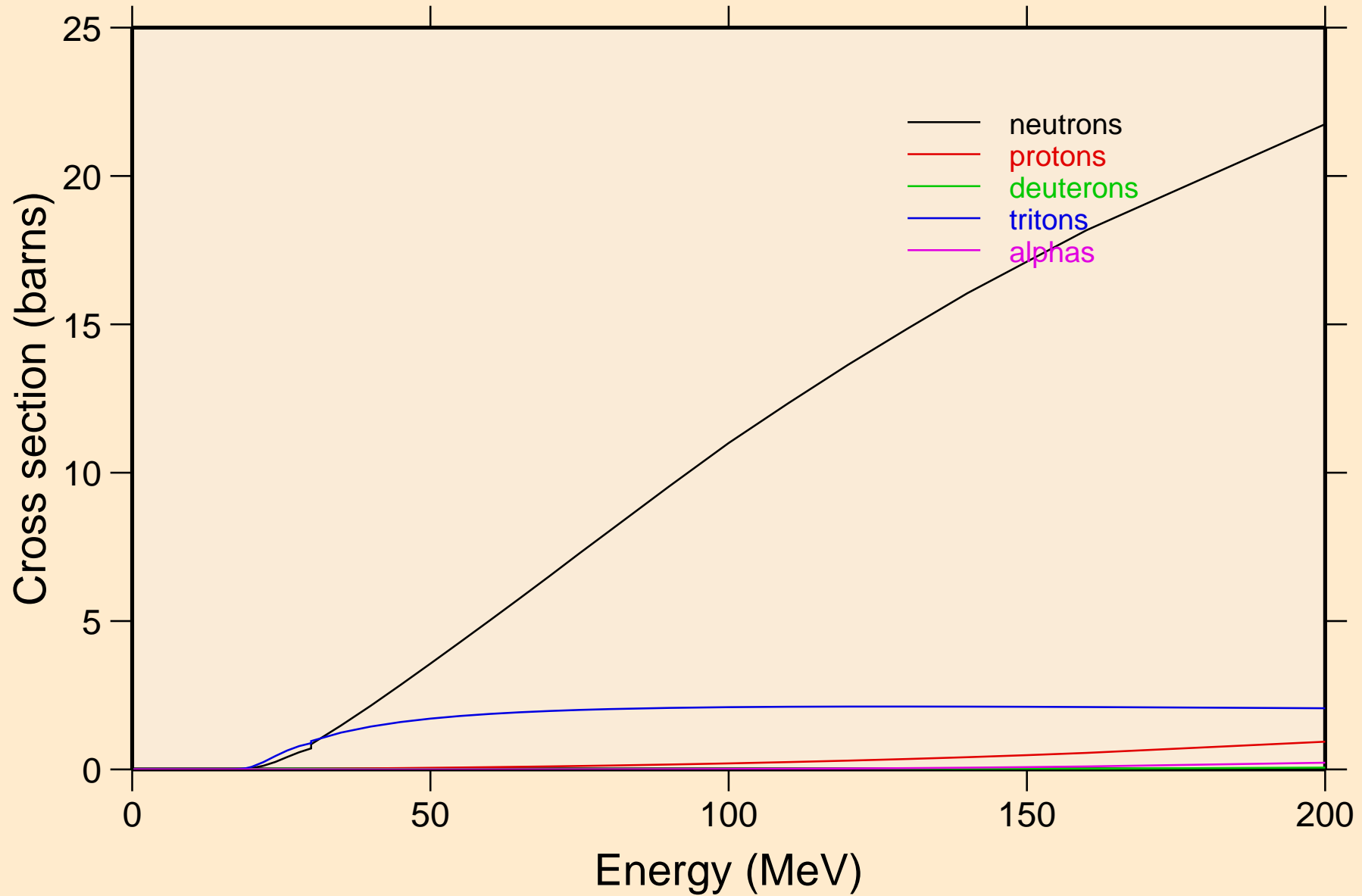
## Particle heating contributions



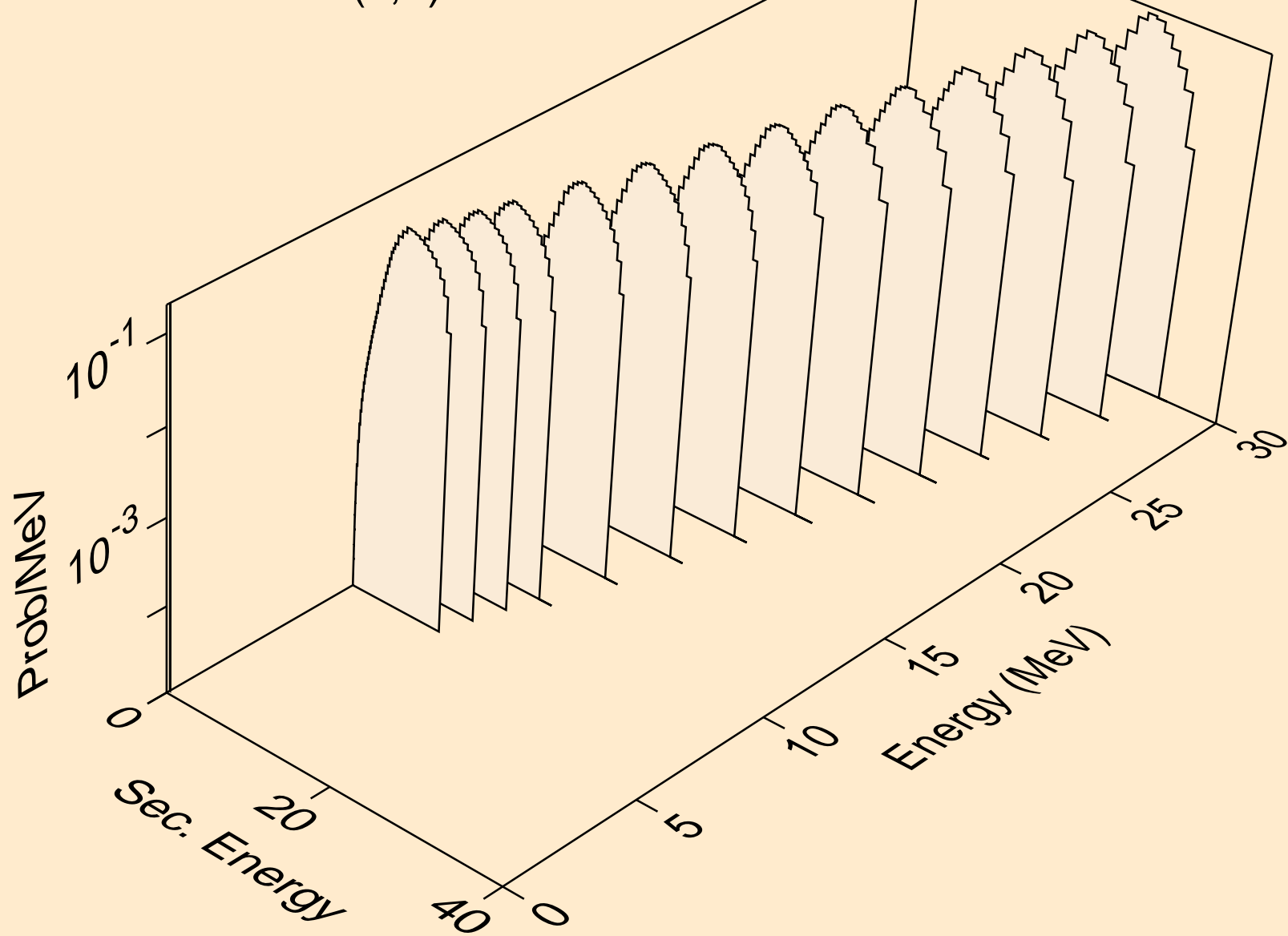
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Recoil Heating



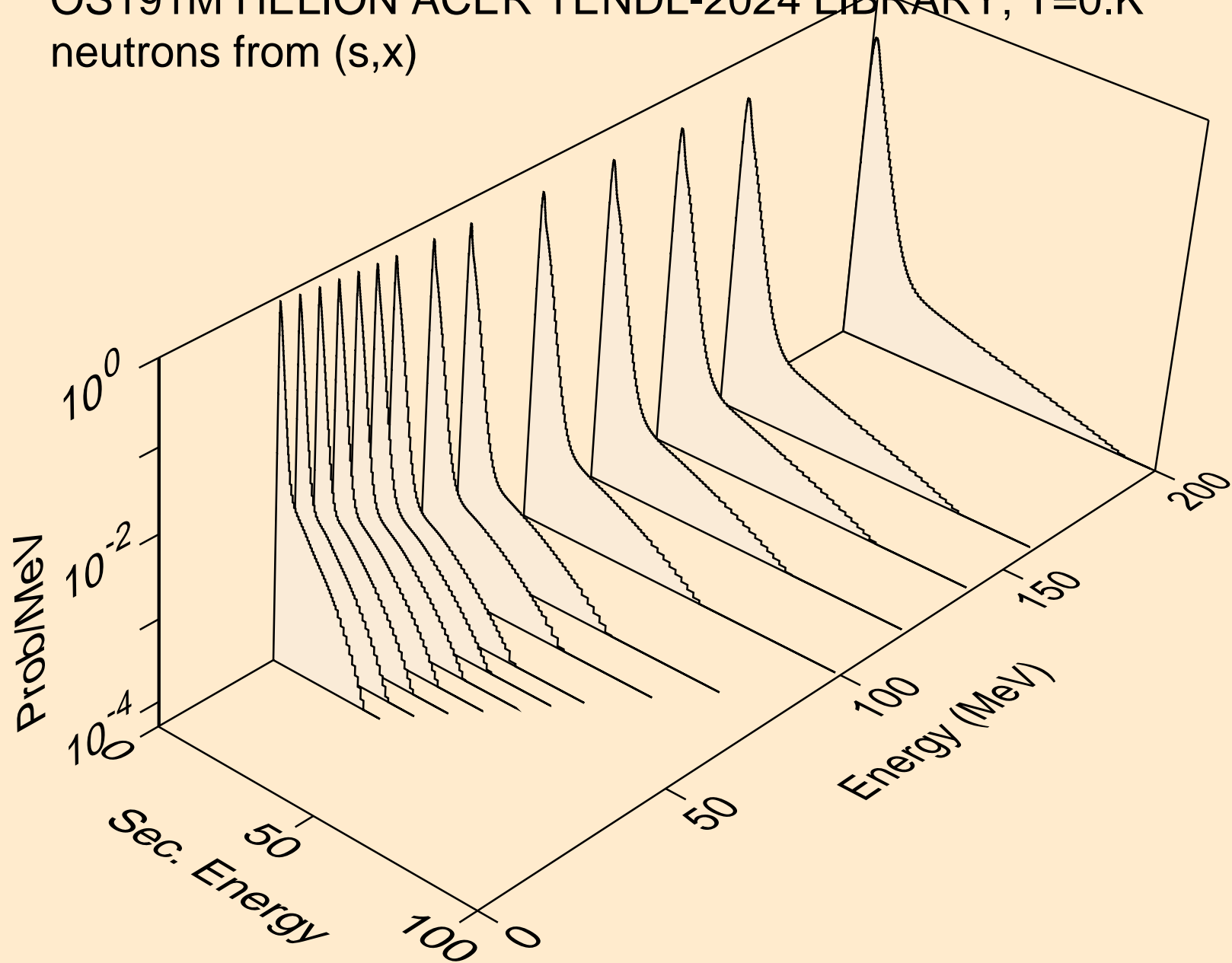
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Particle production cross sections



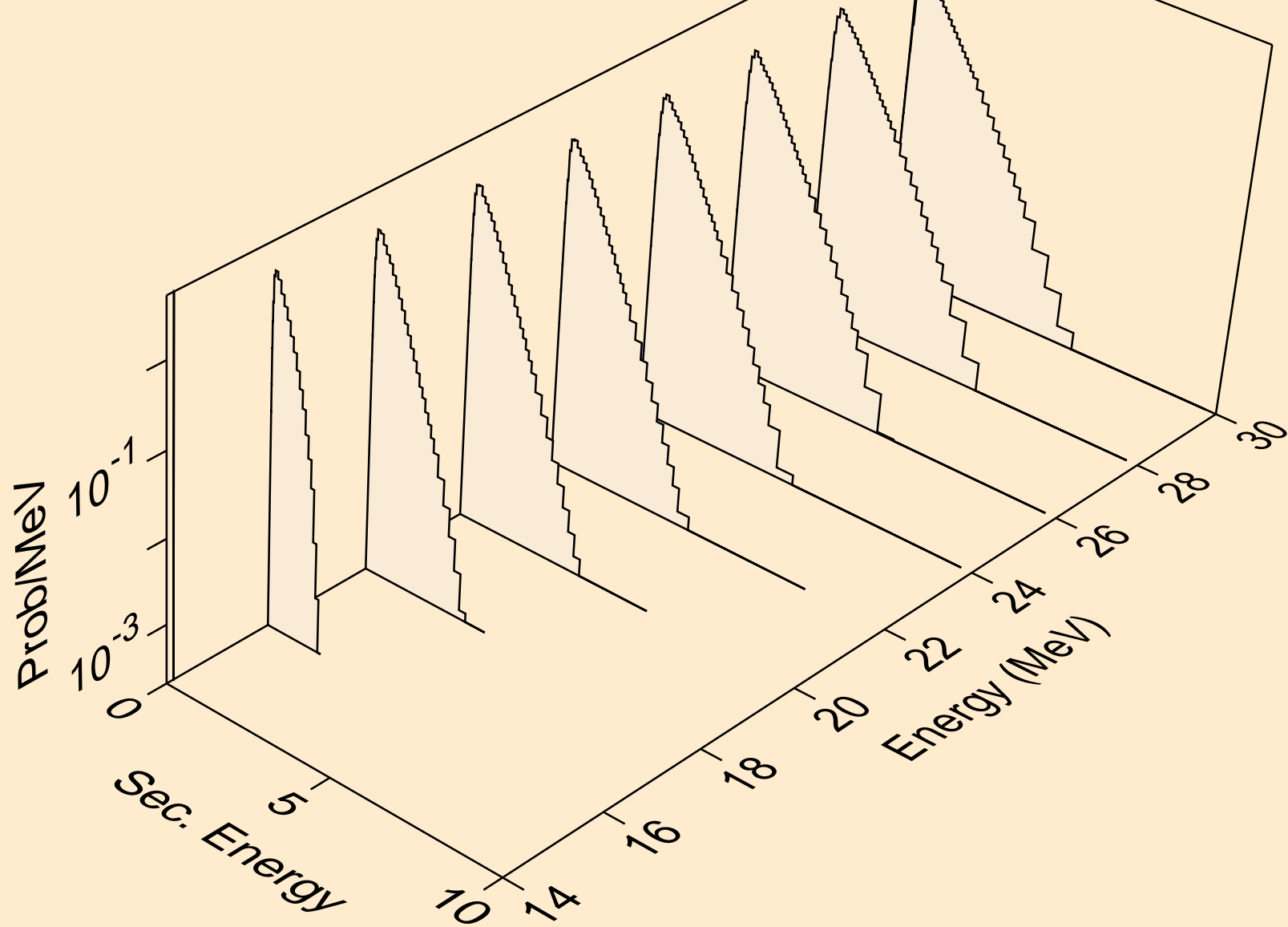
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neutrons from (s,n)



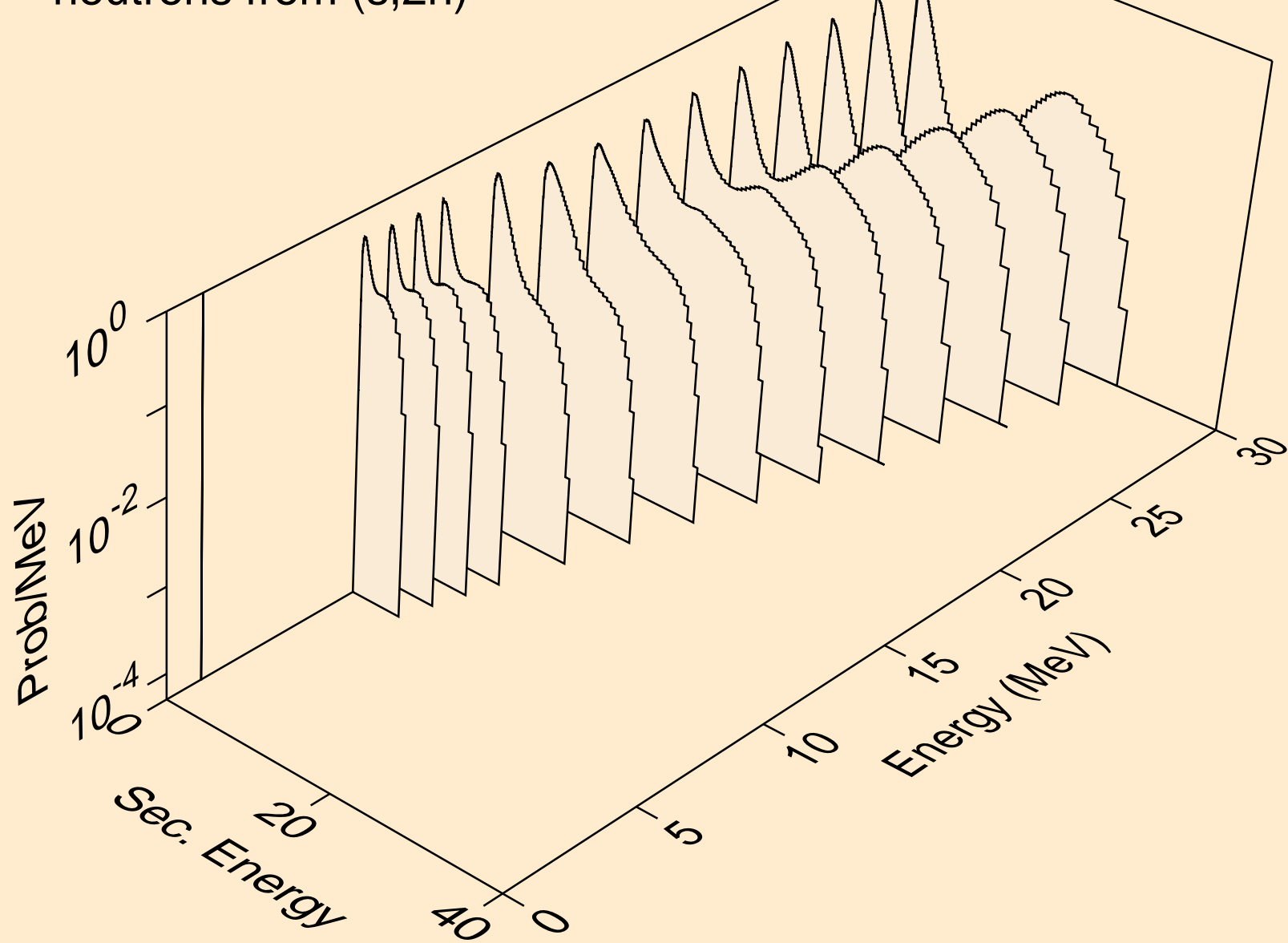
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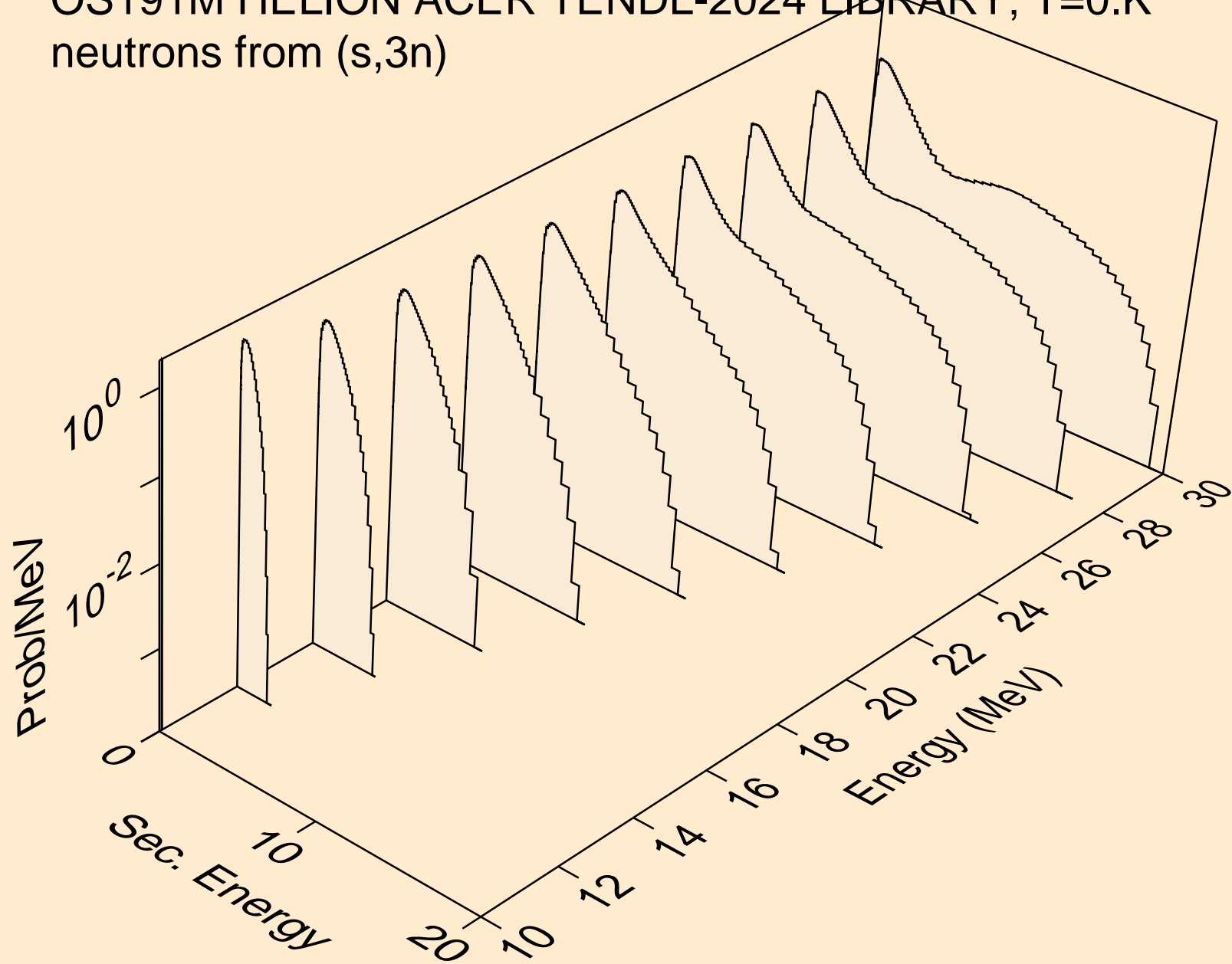
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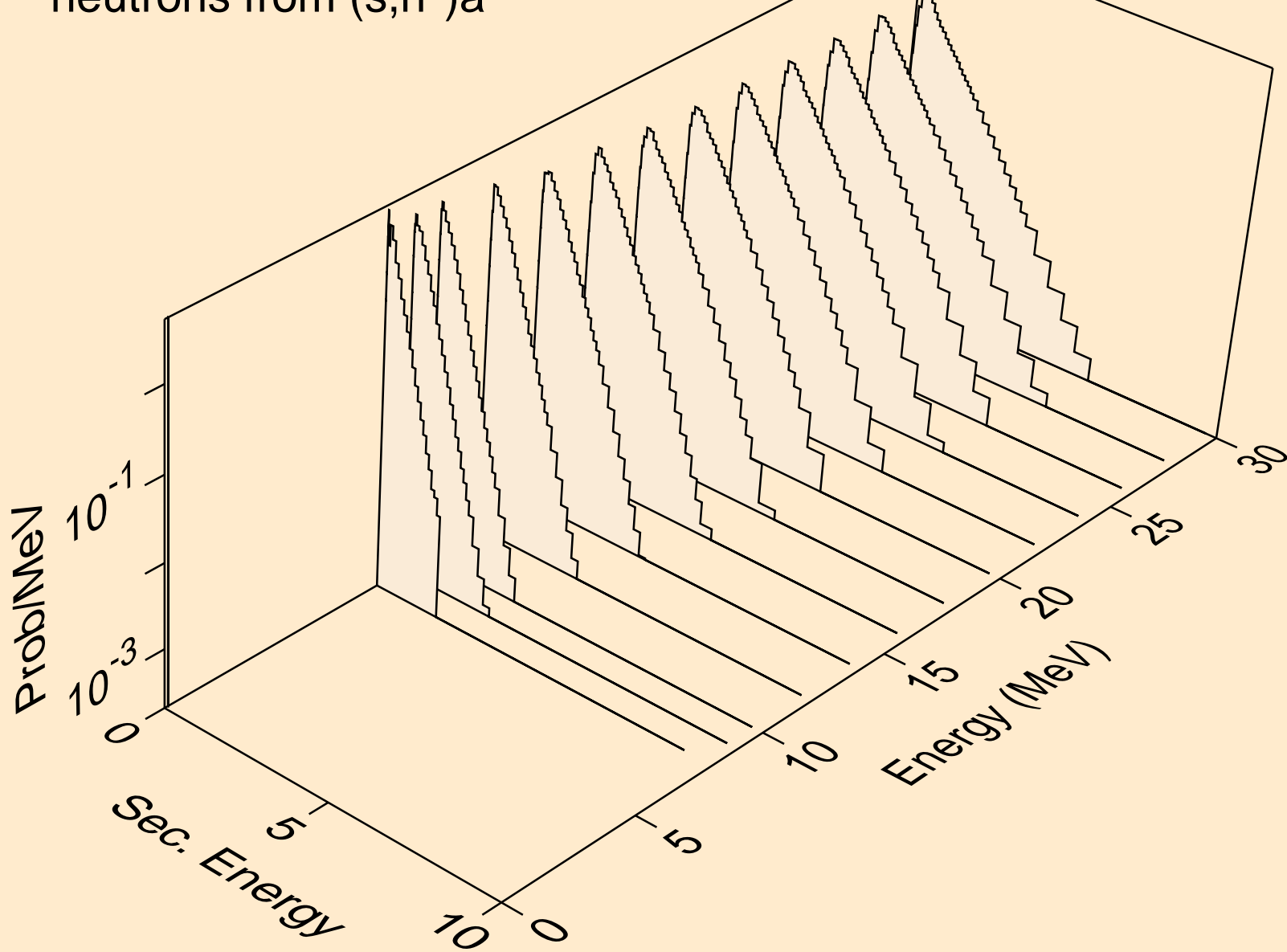
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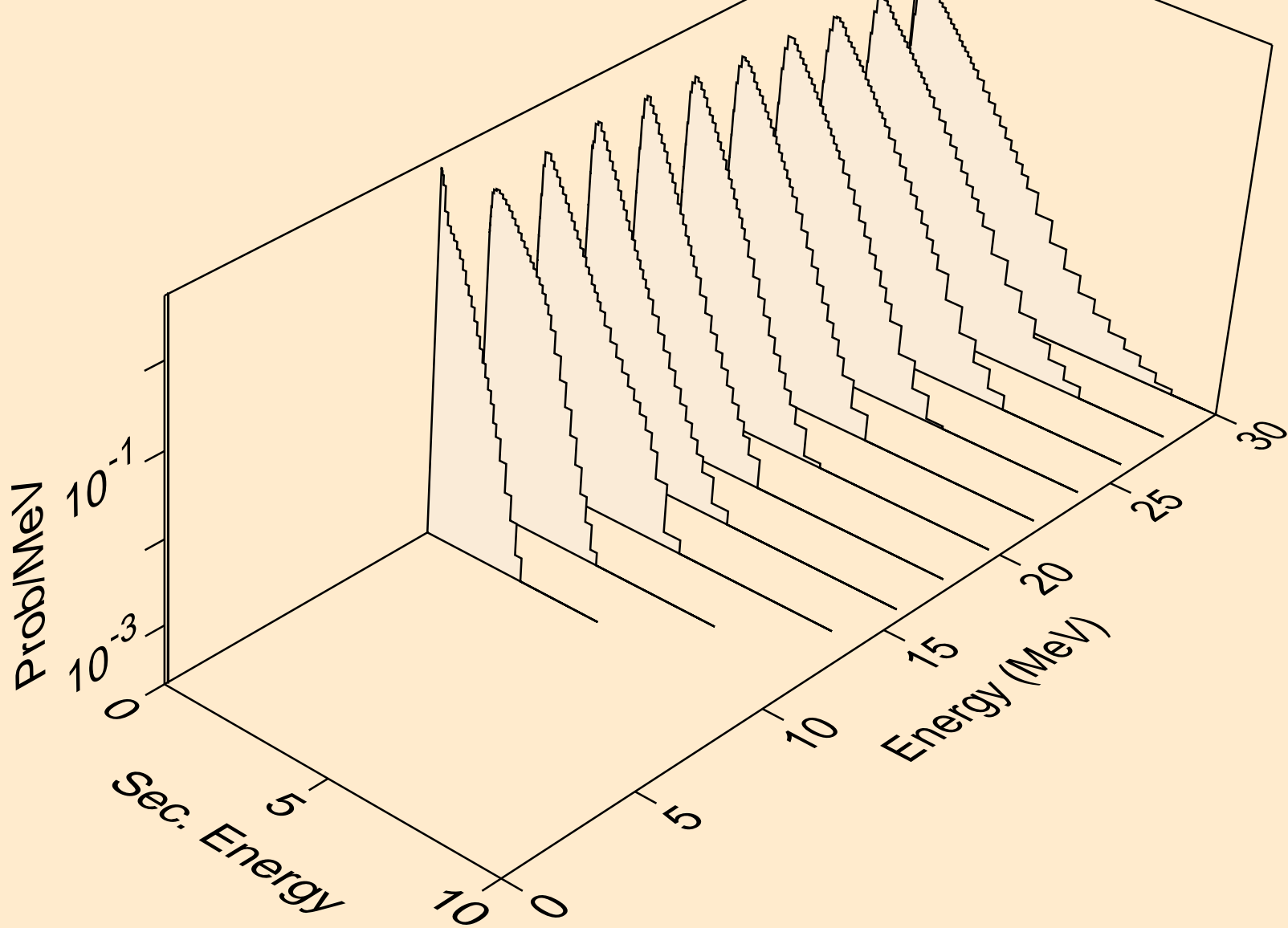
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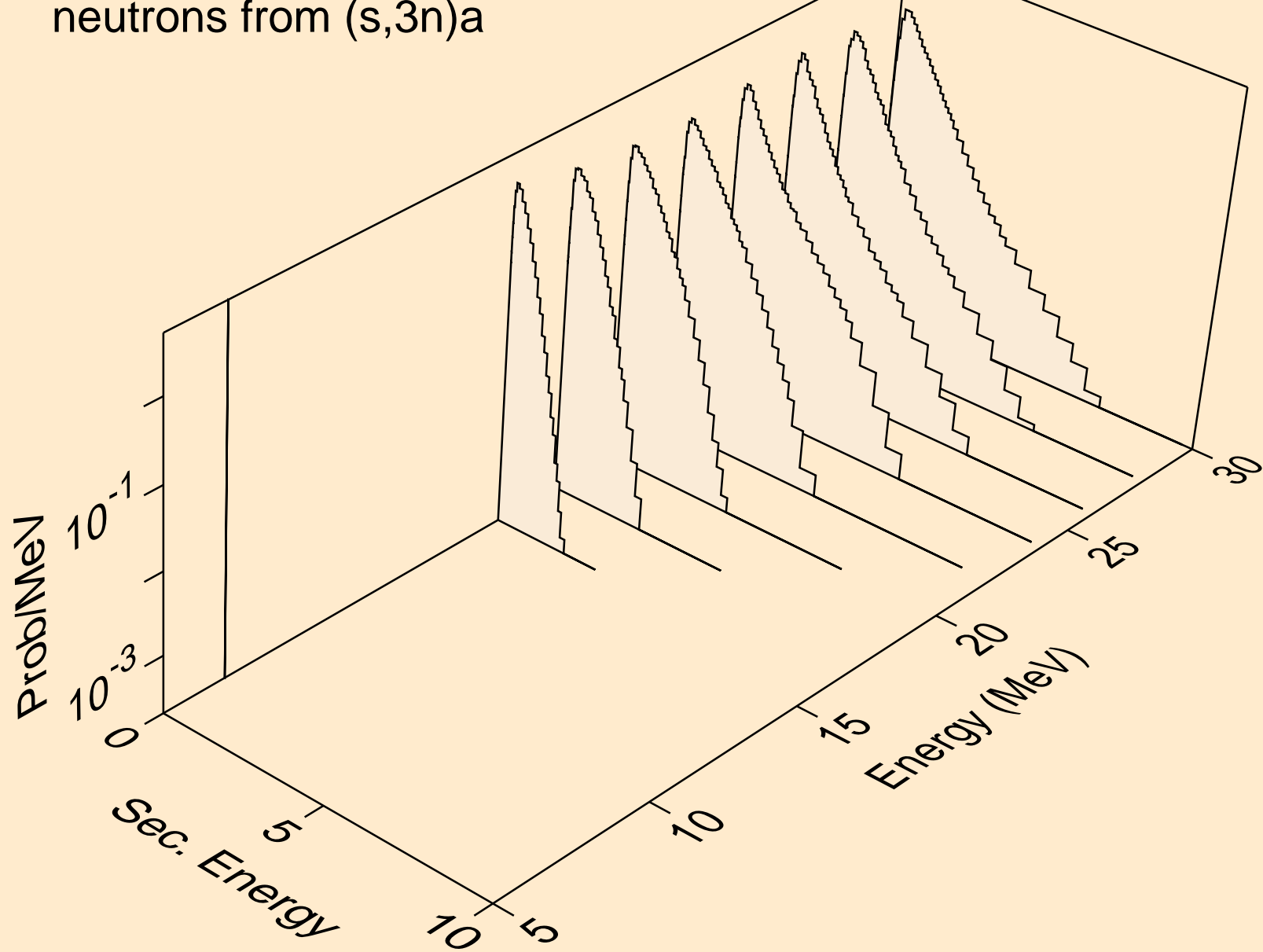
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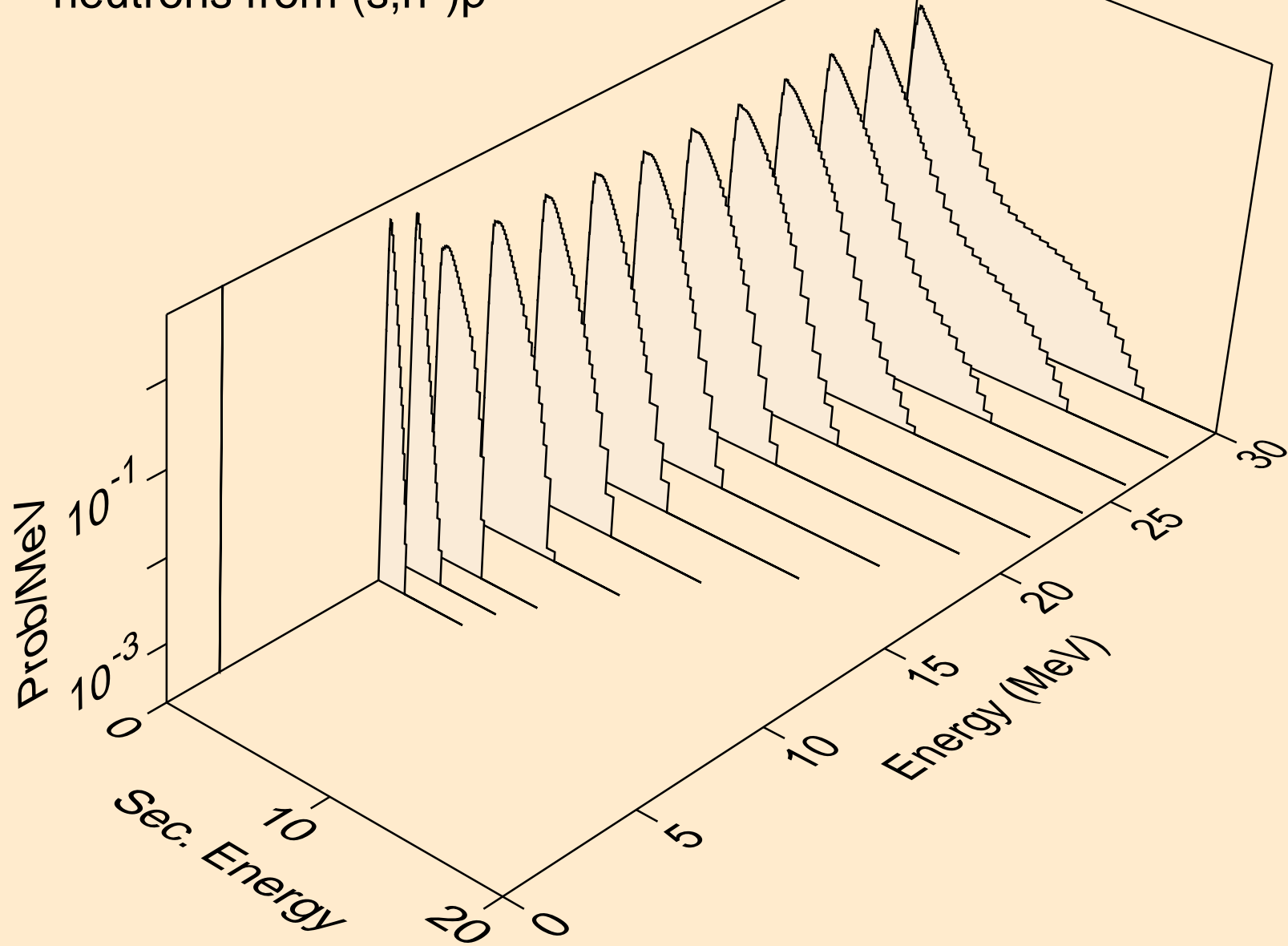
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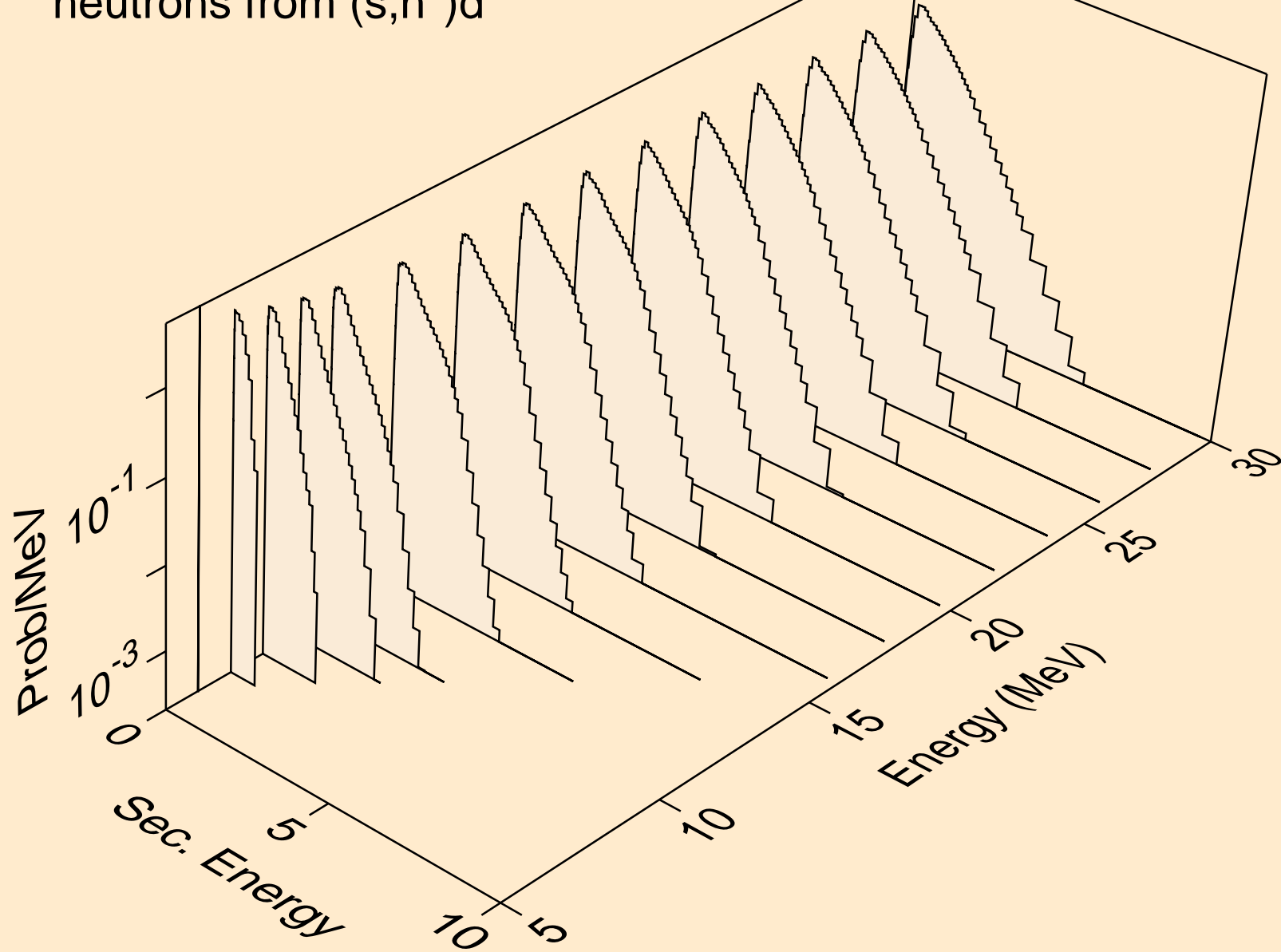
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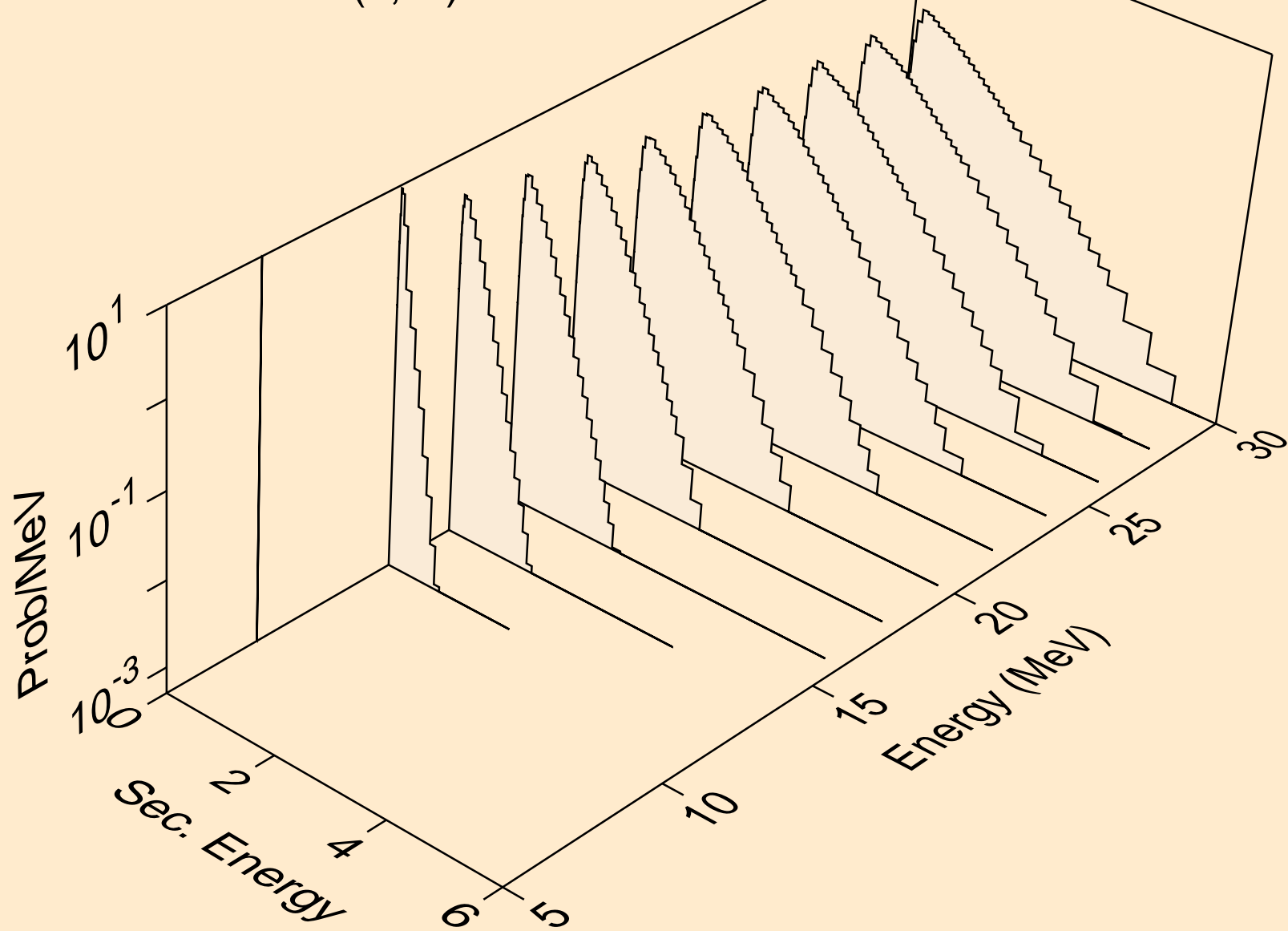
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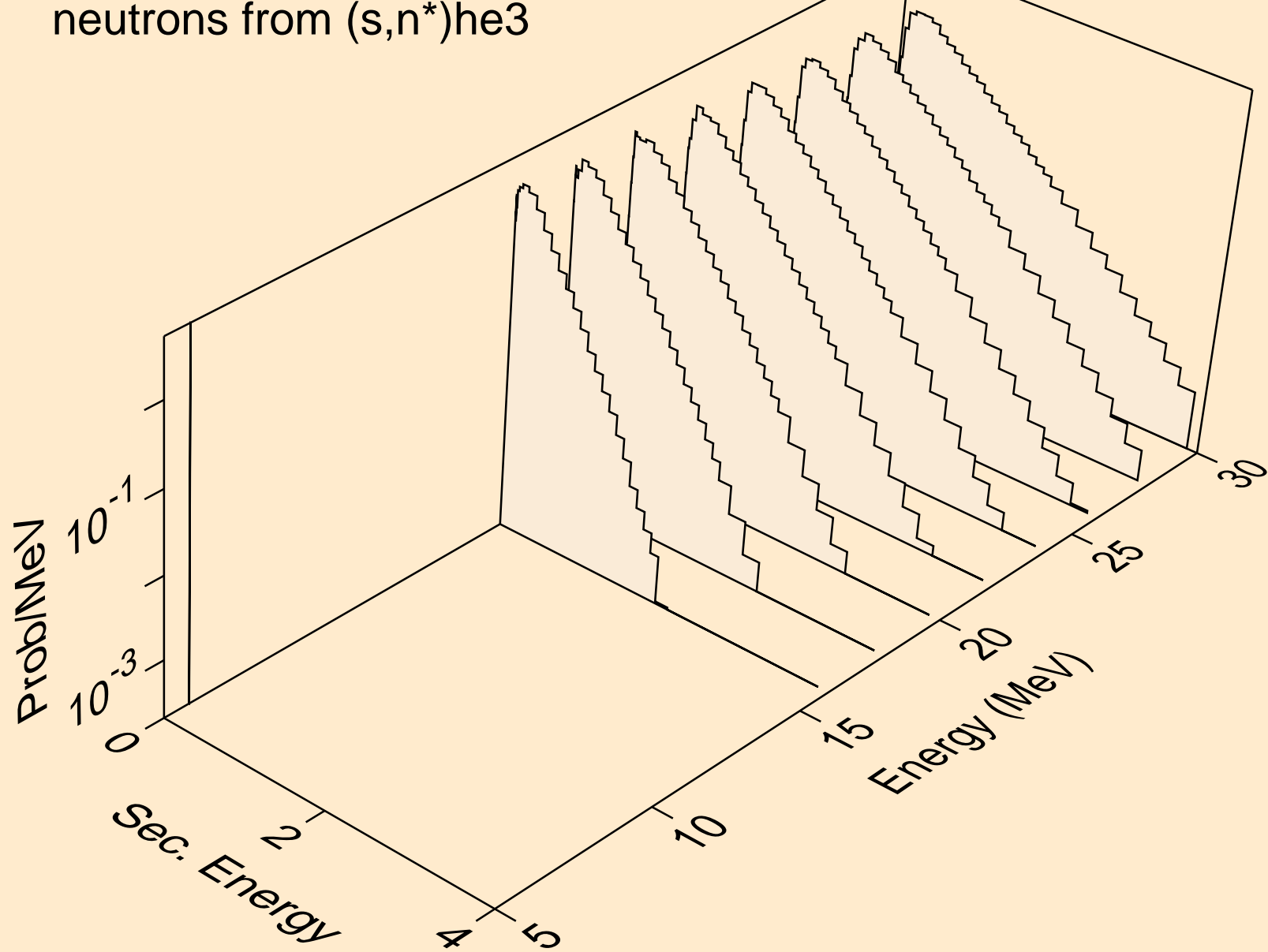
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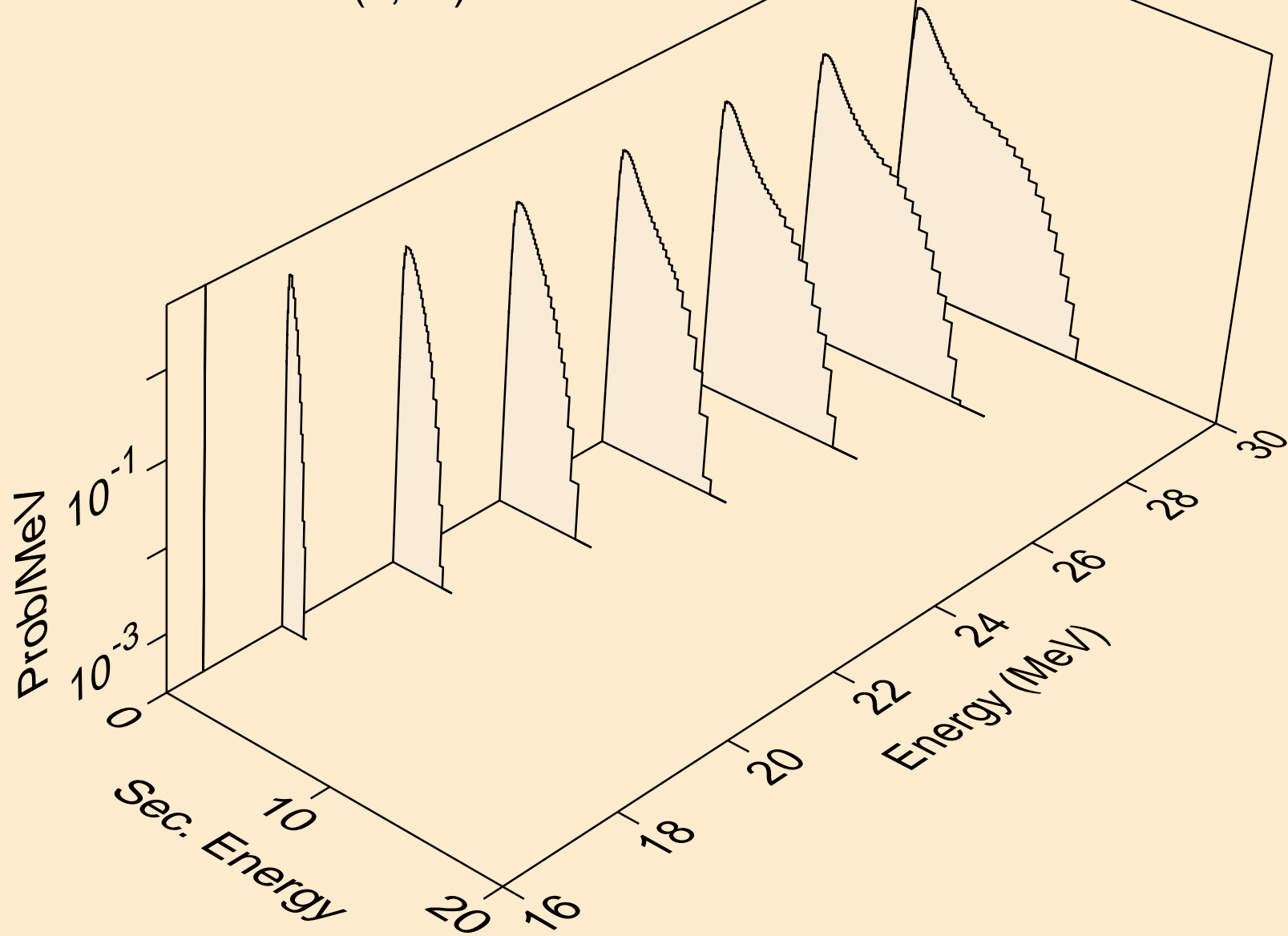
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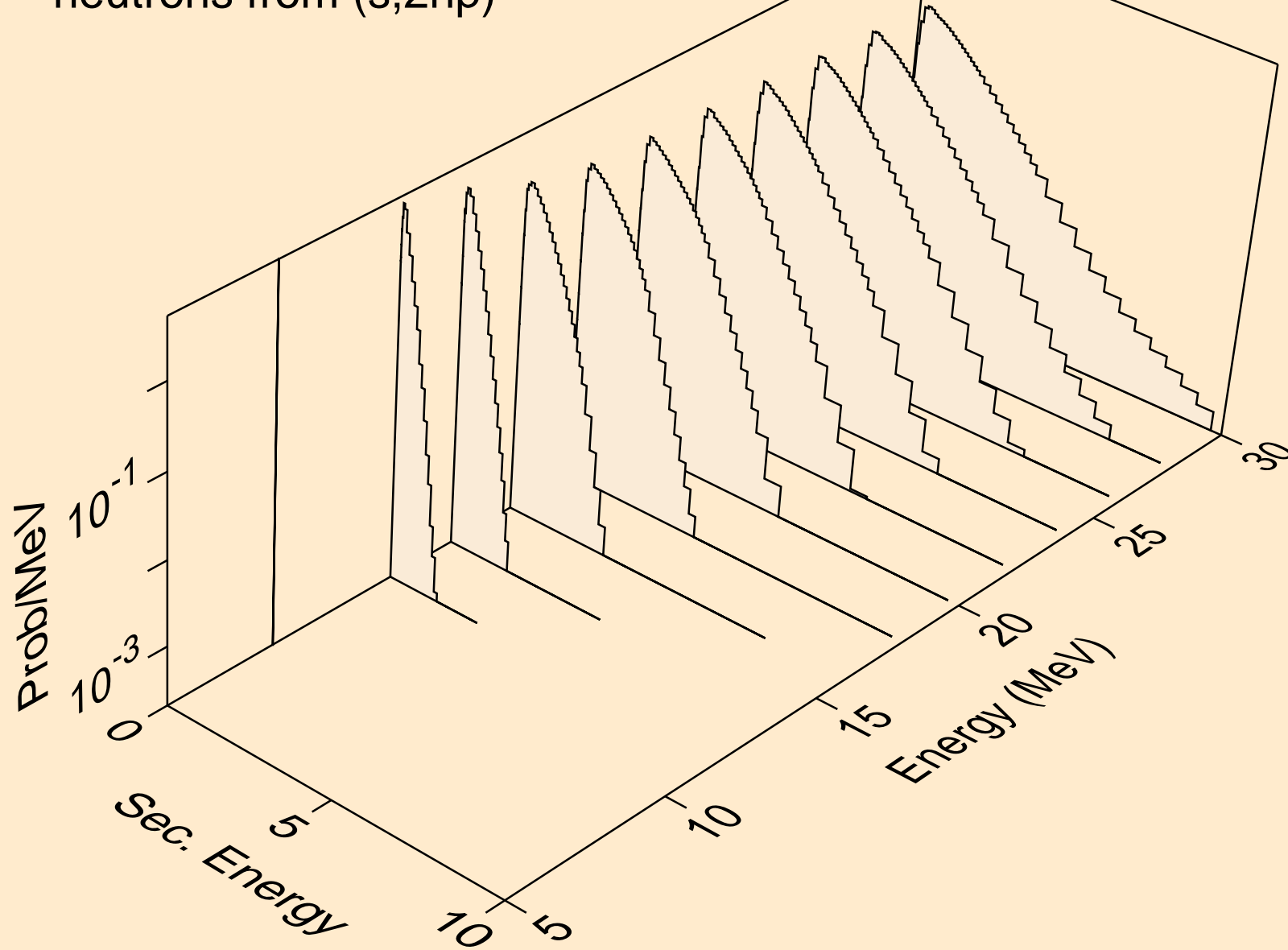
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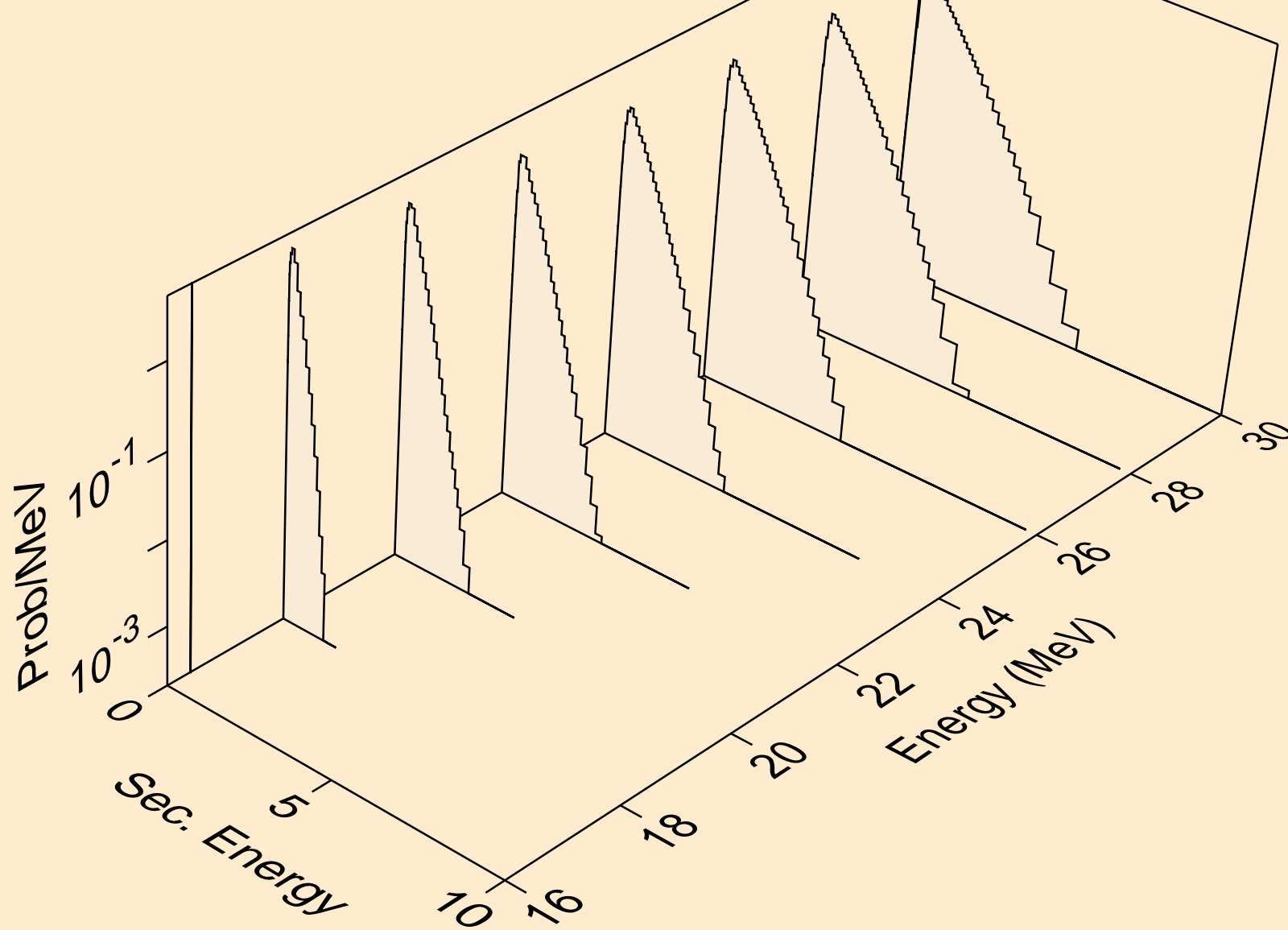
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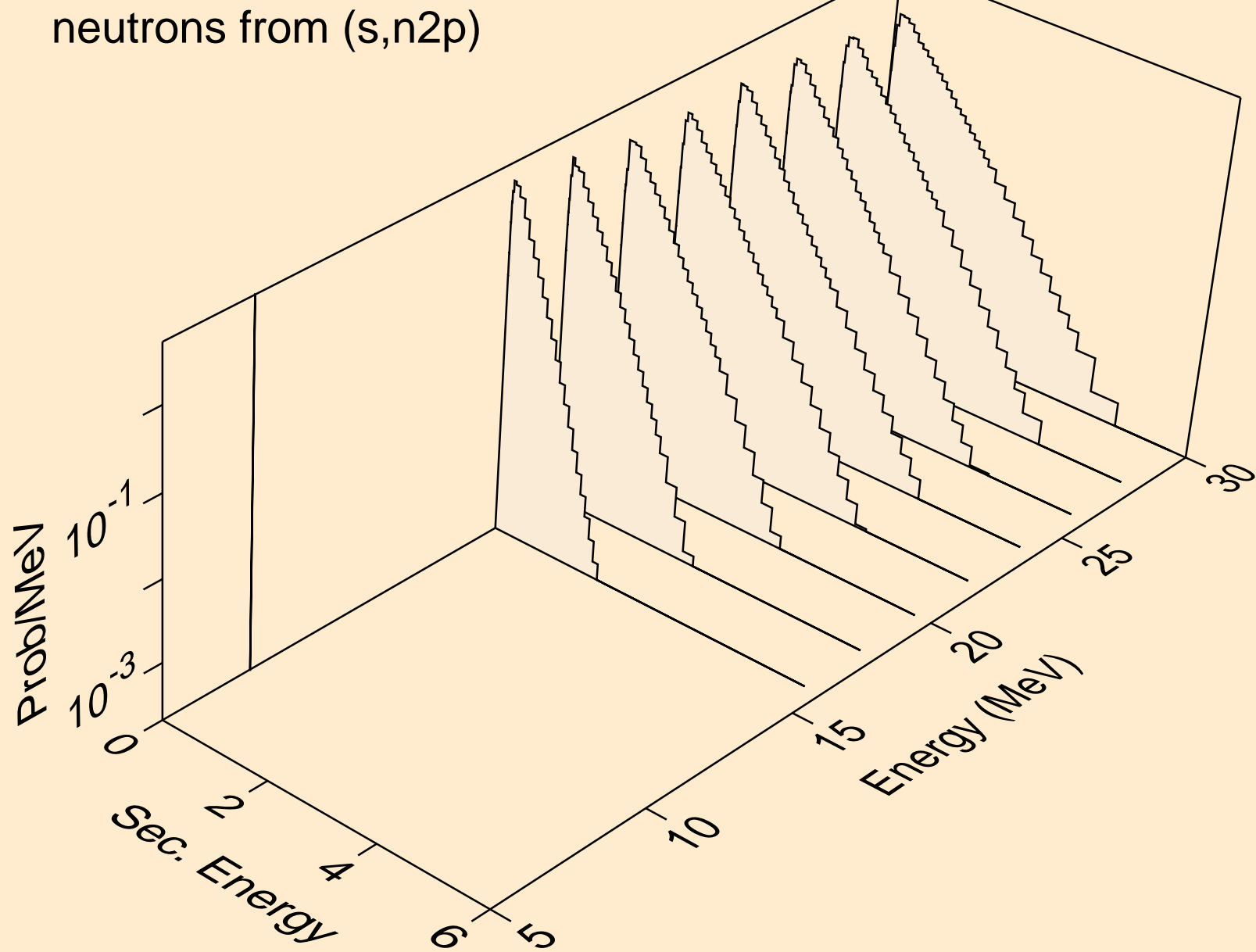
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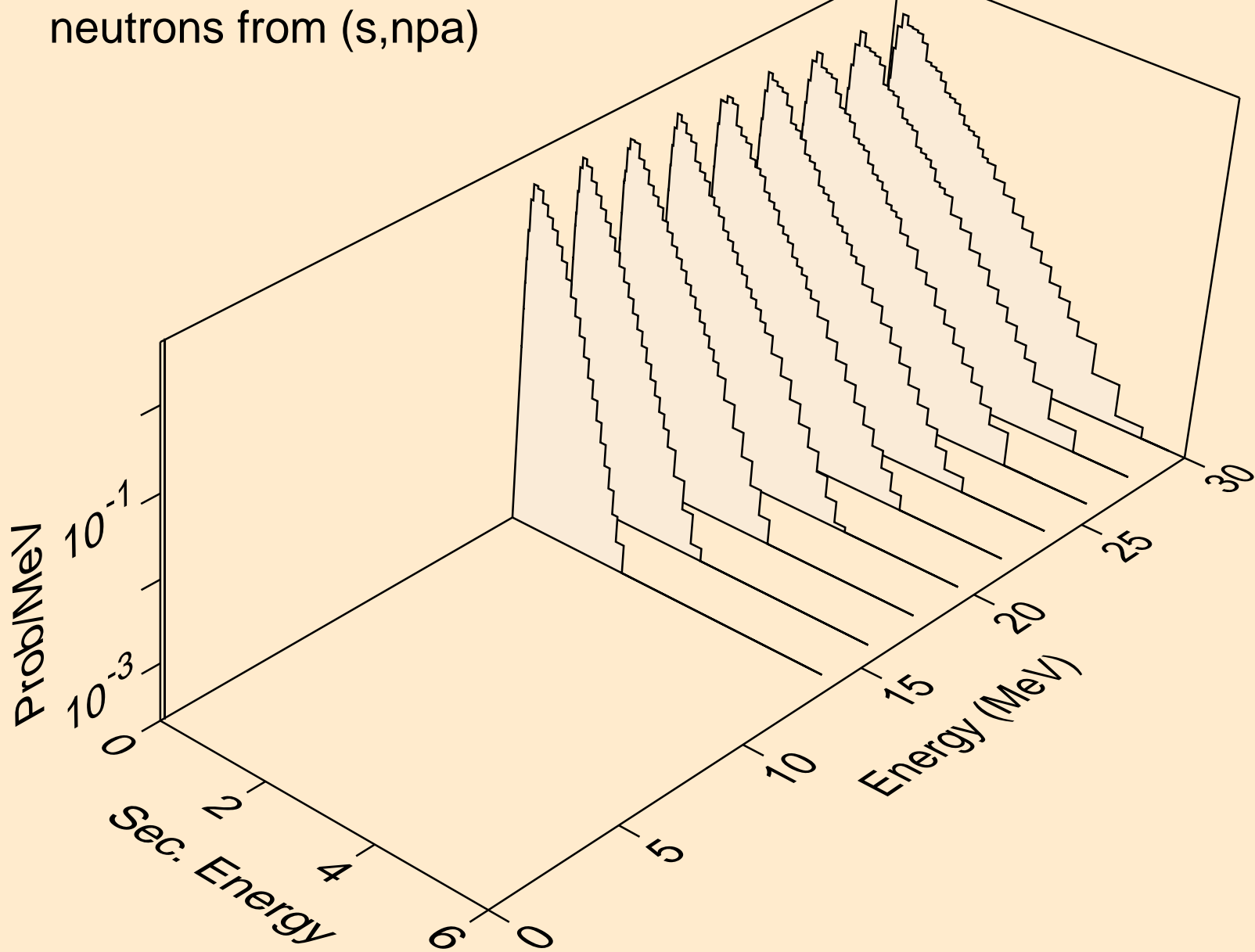
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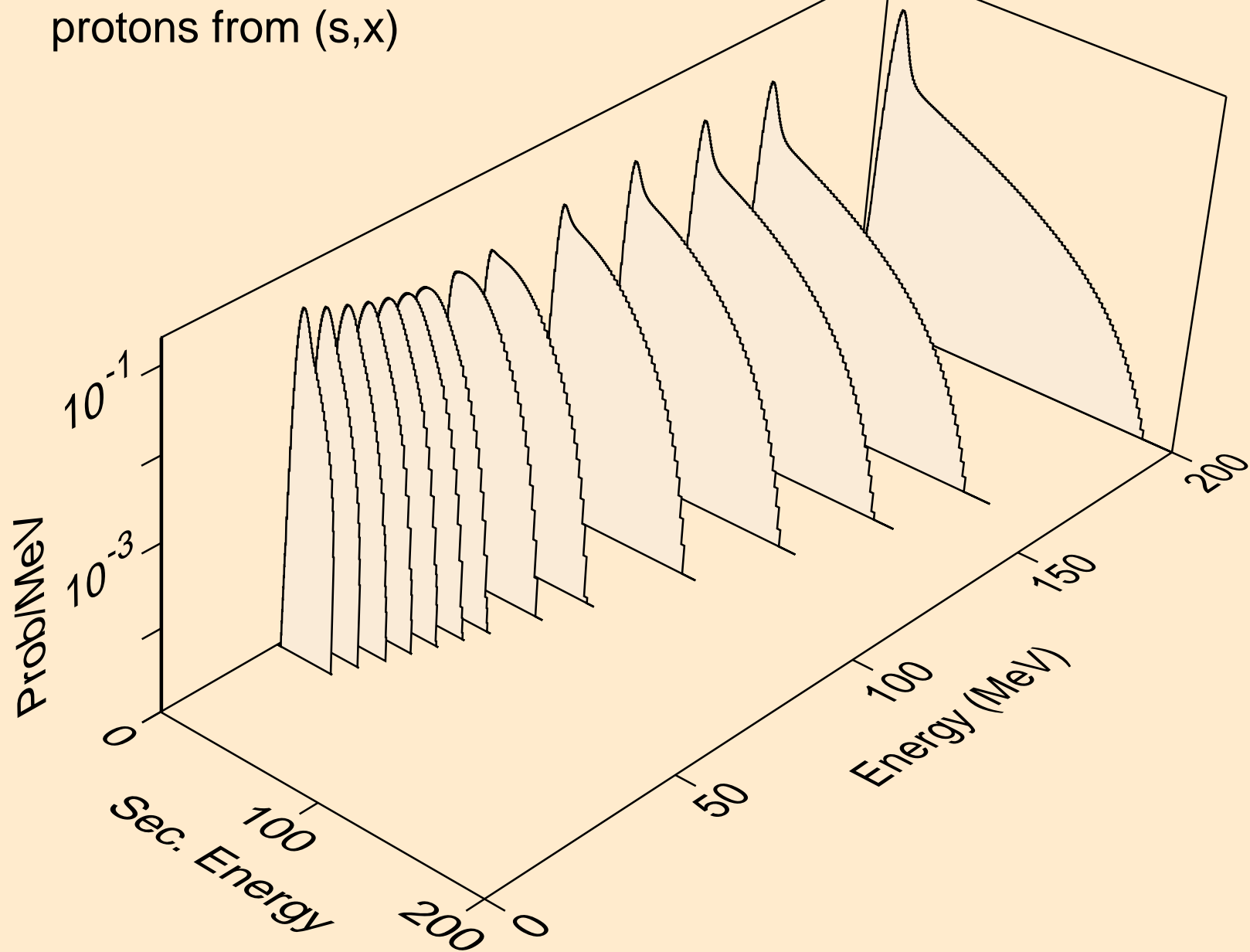
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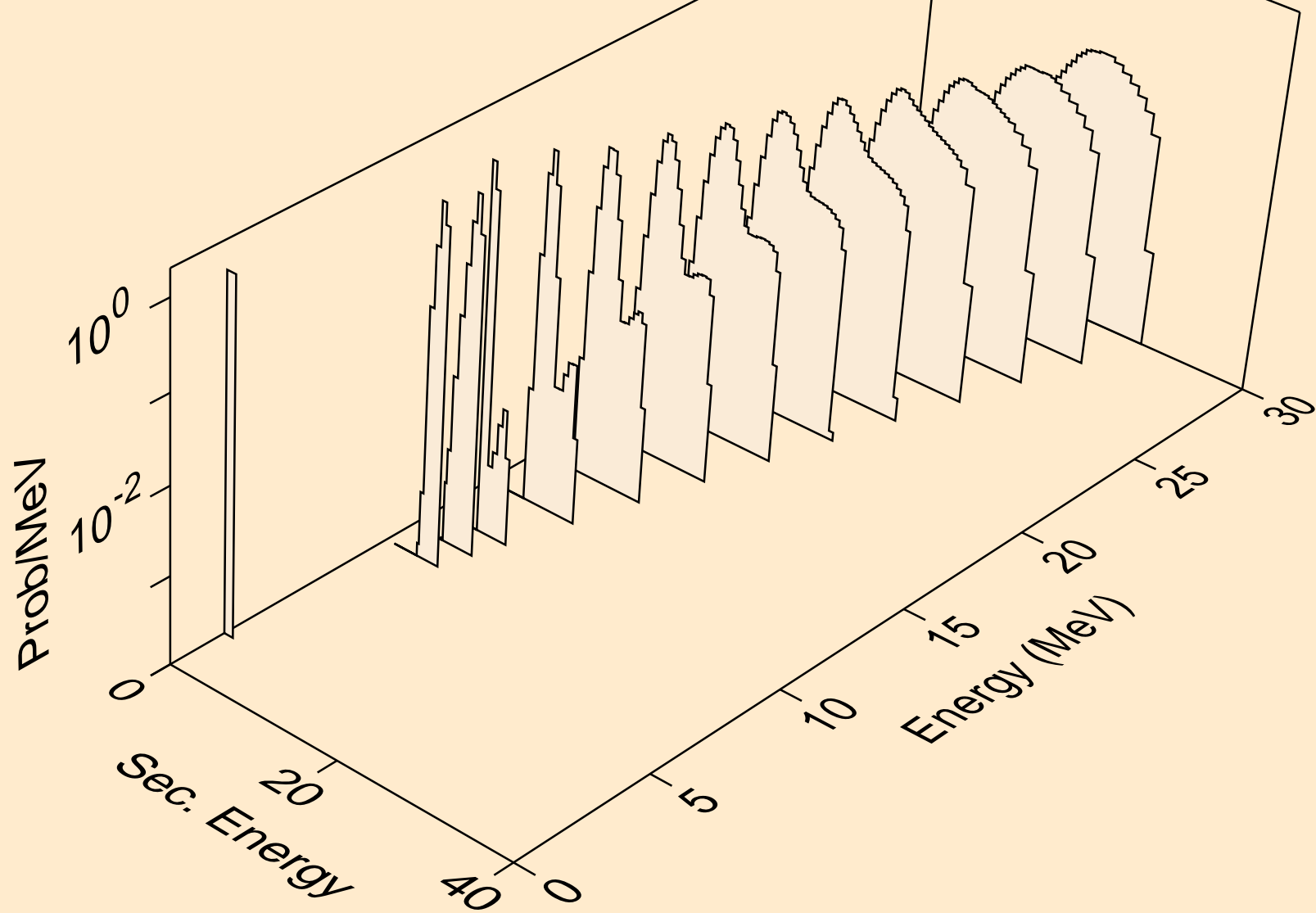
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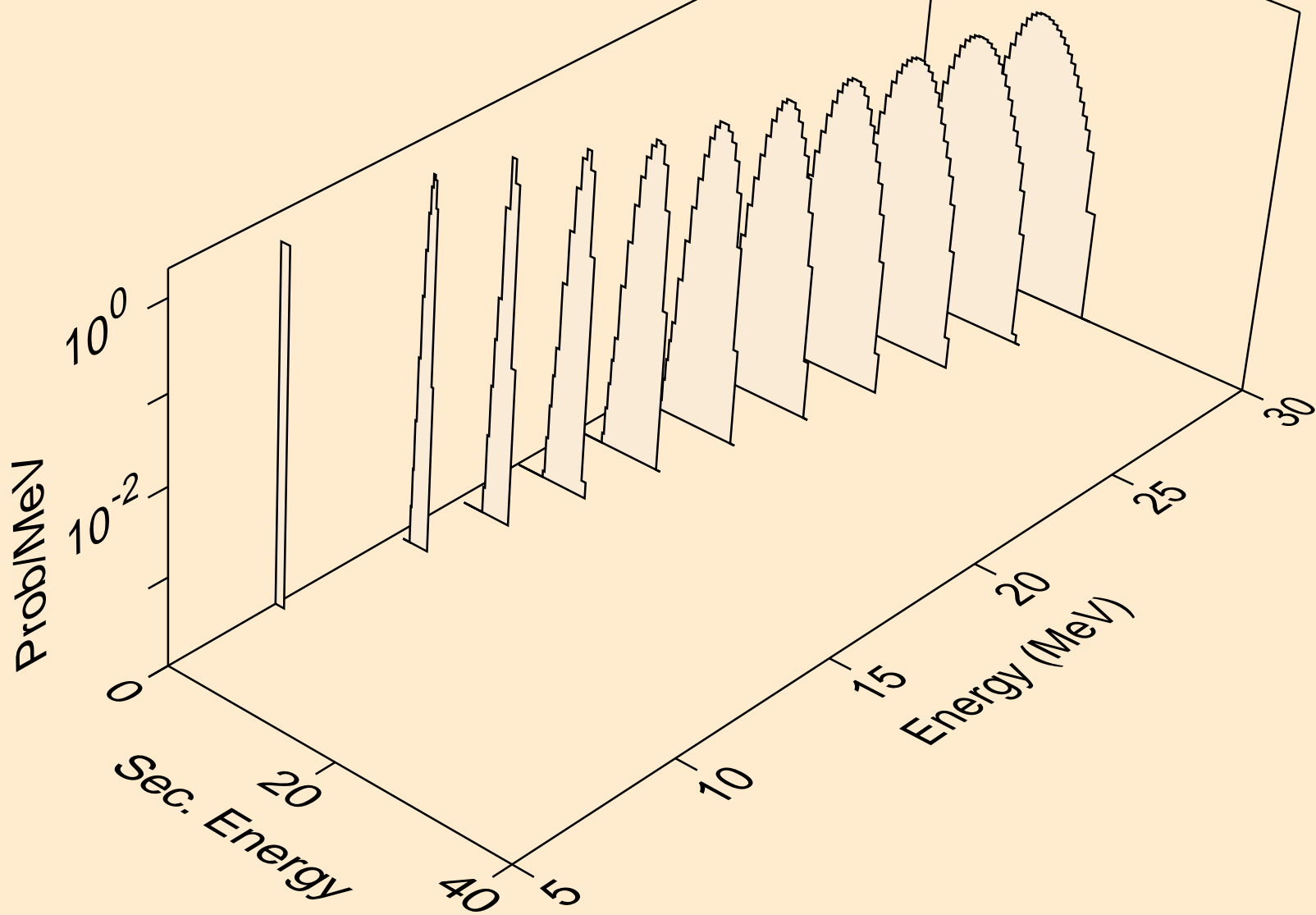
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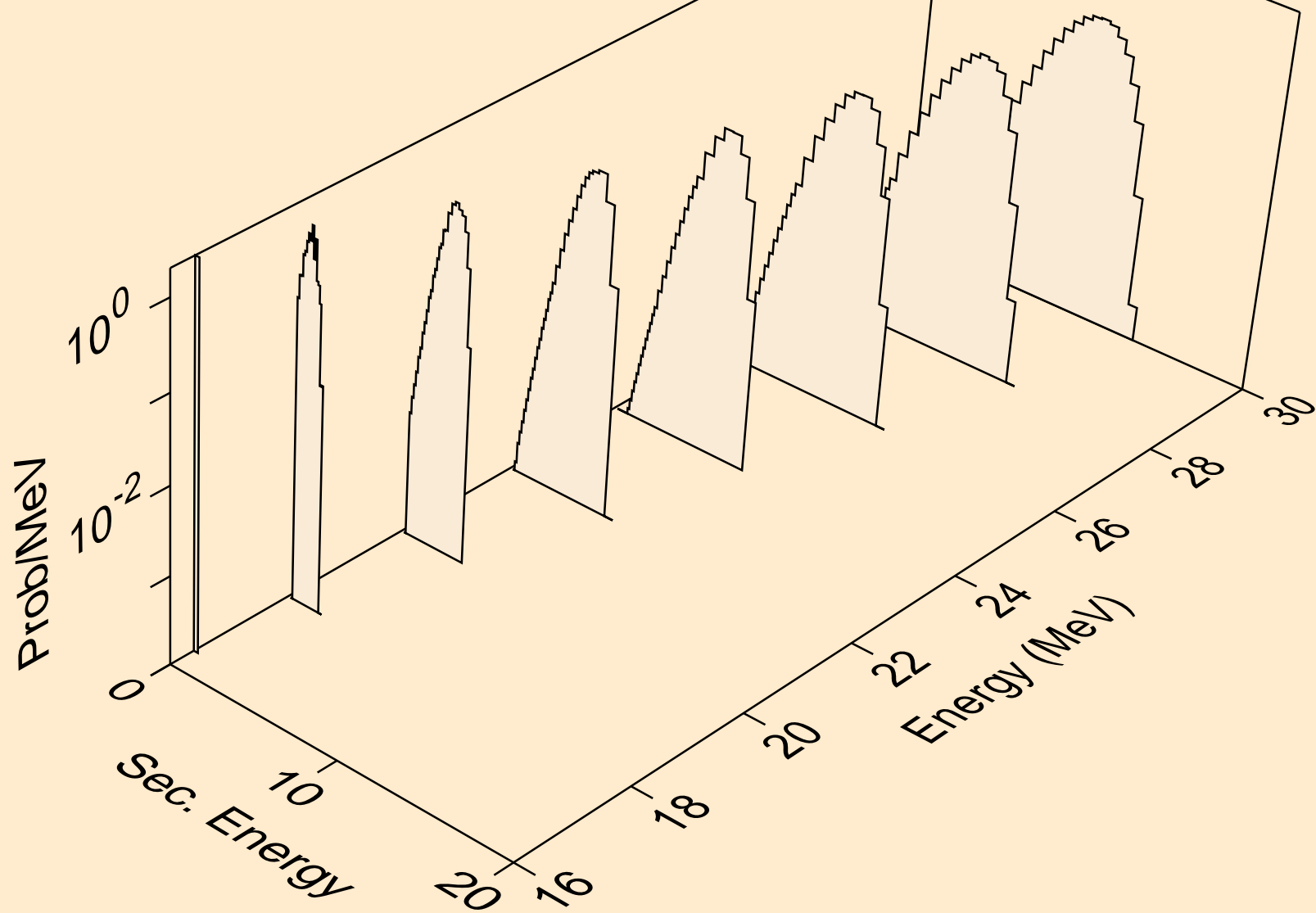
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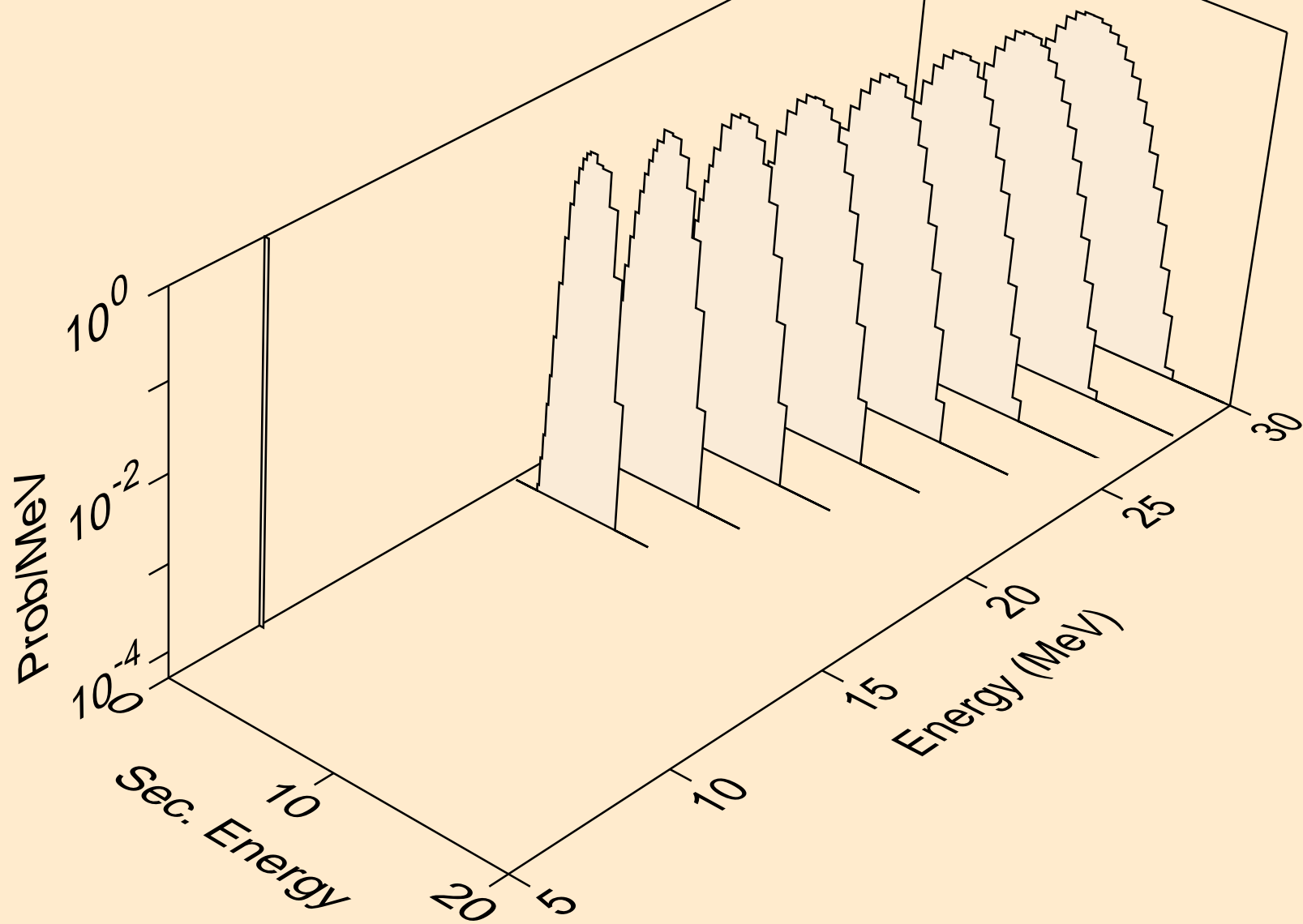
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protons from (s,2np)



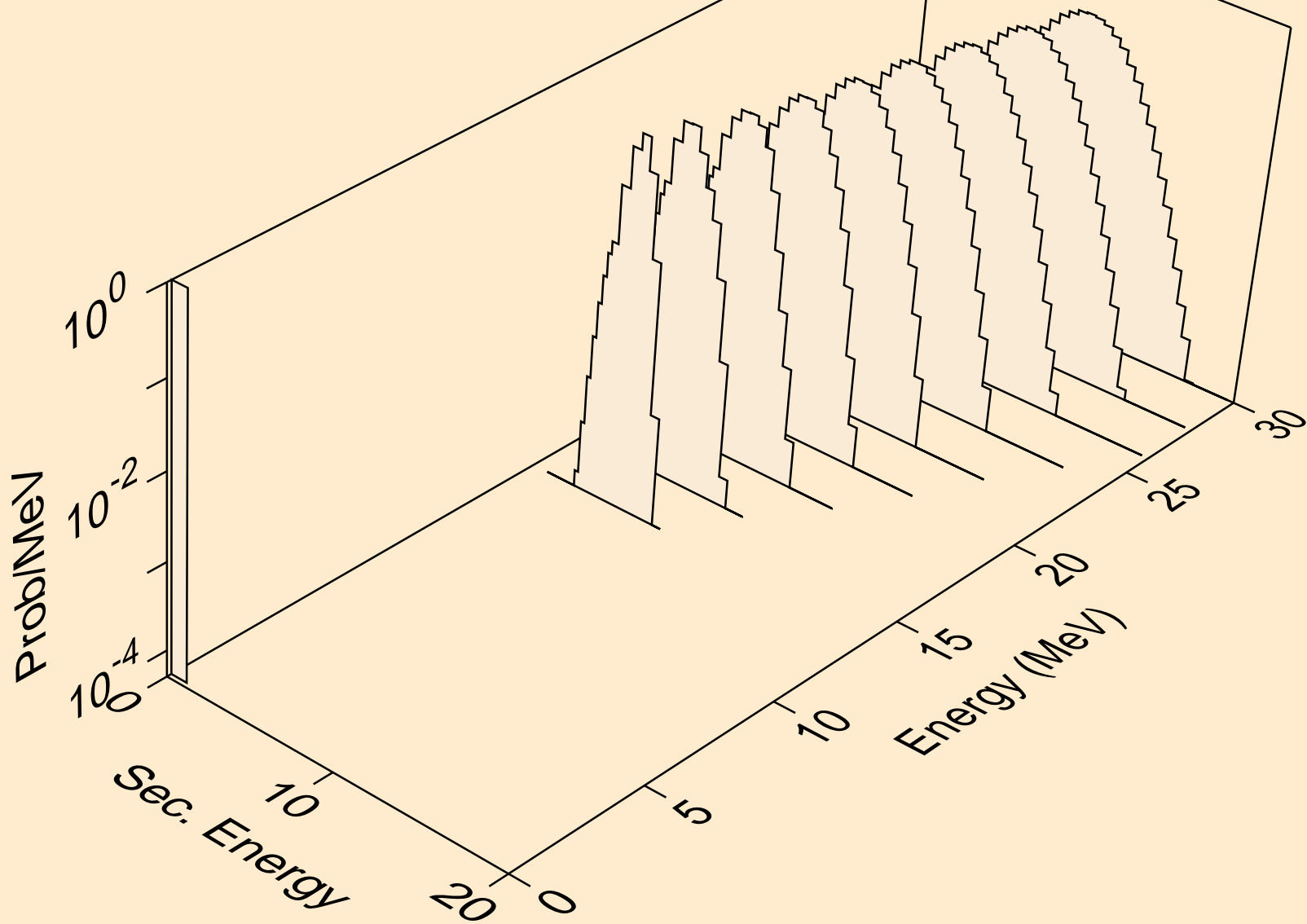
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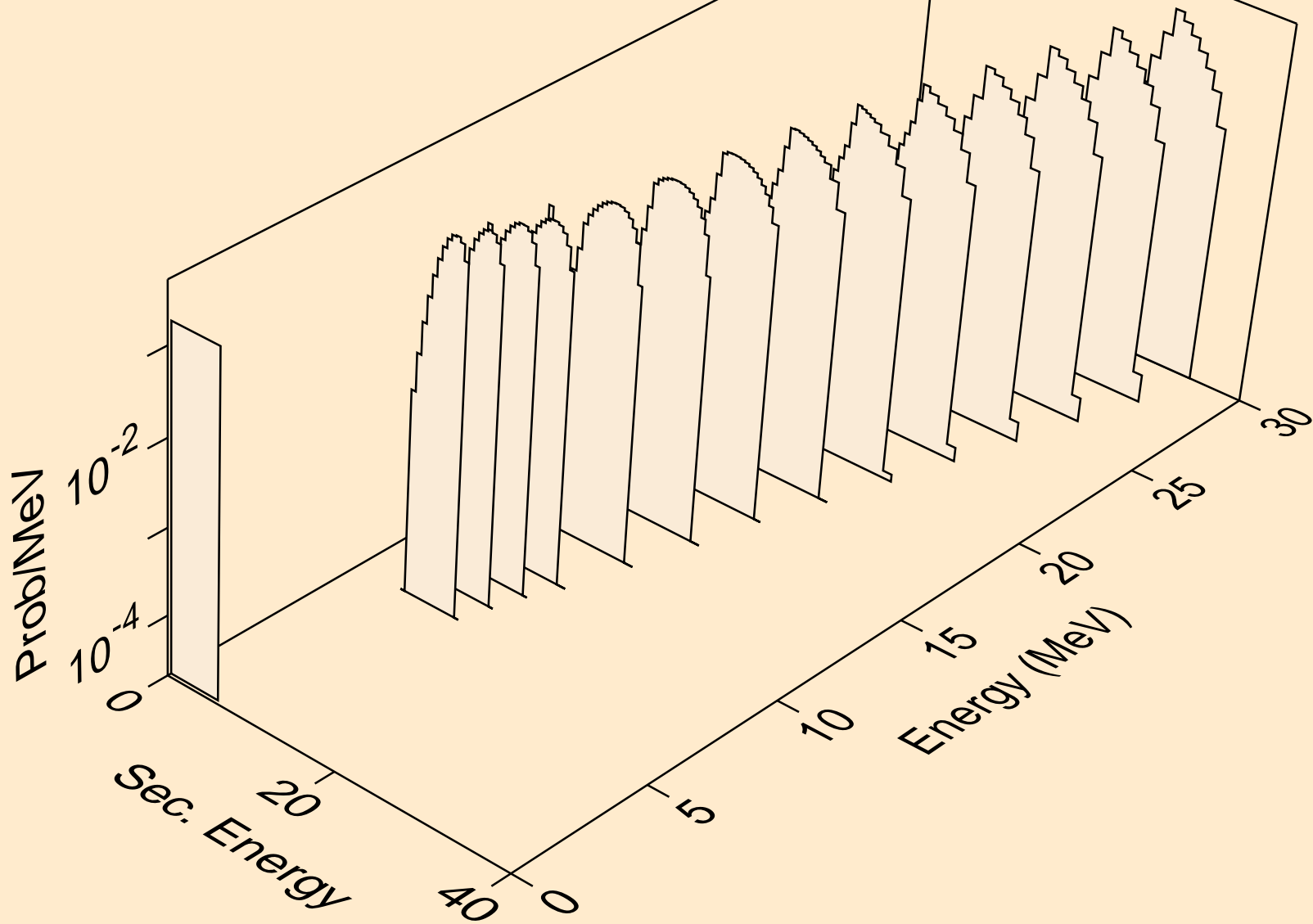
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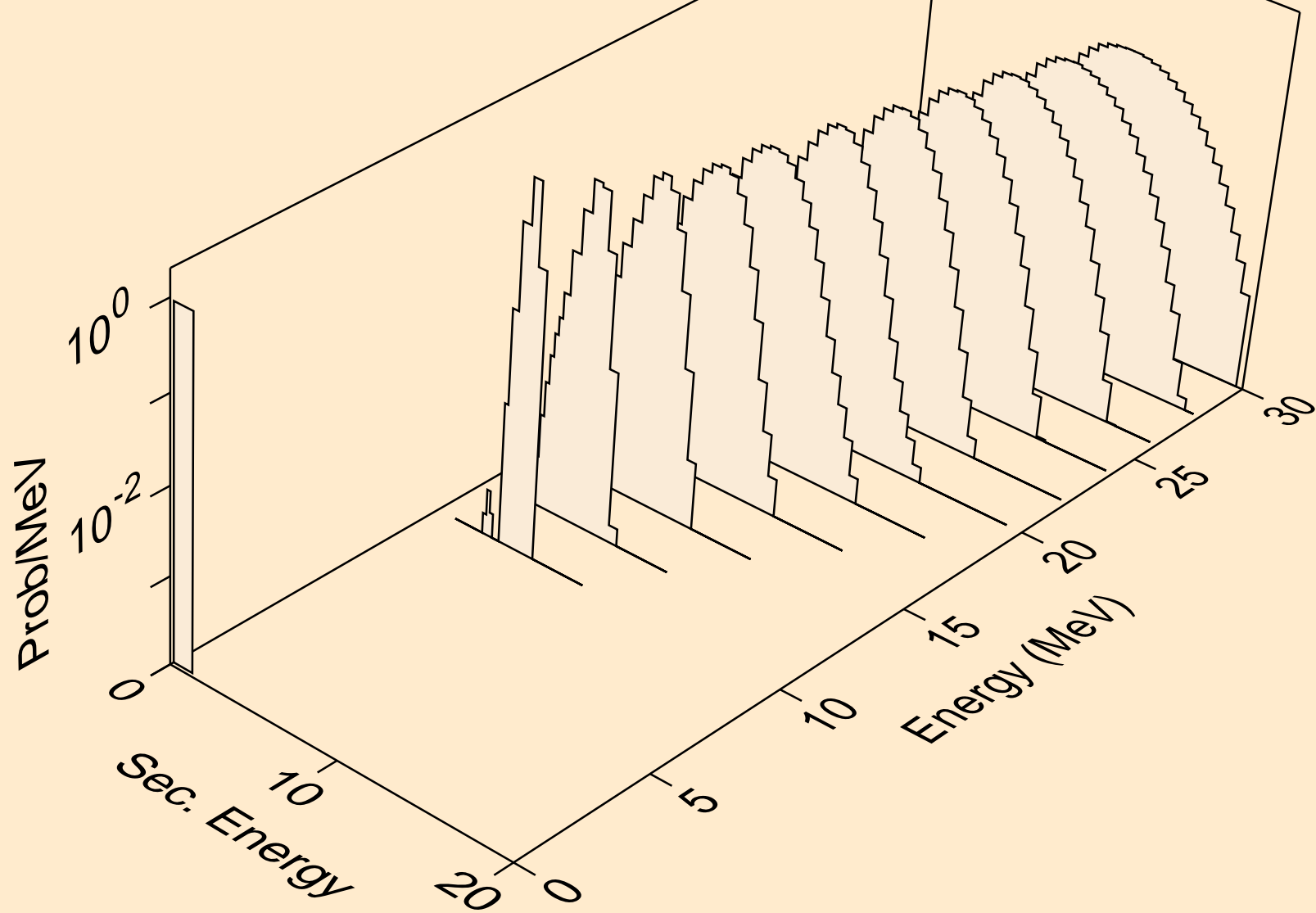
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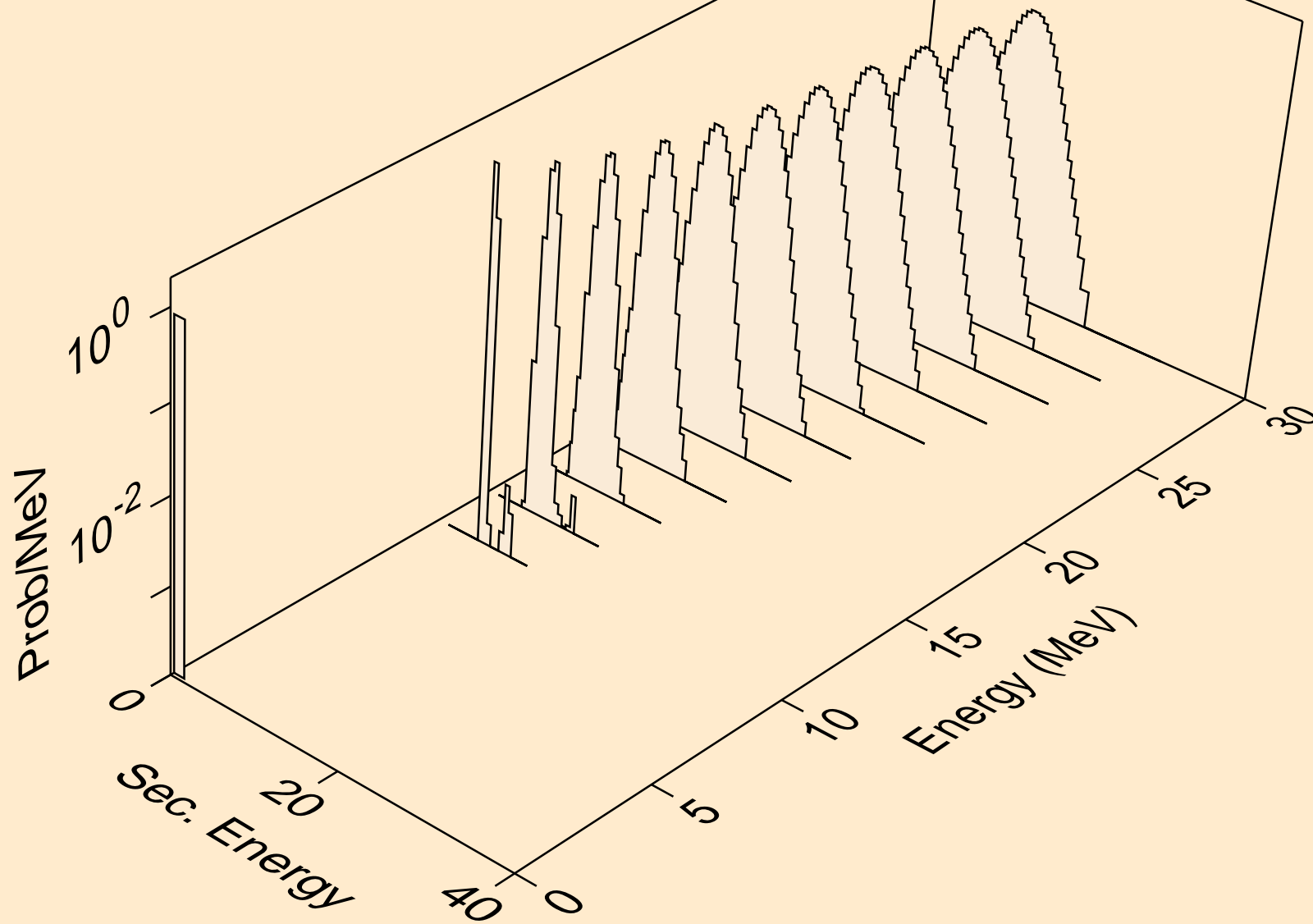
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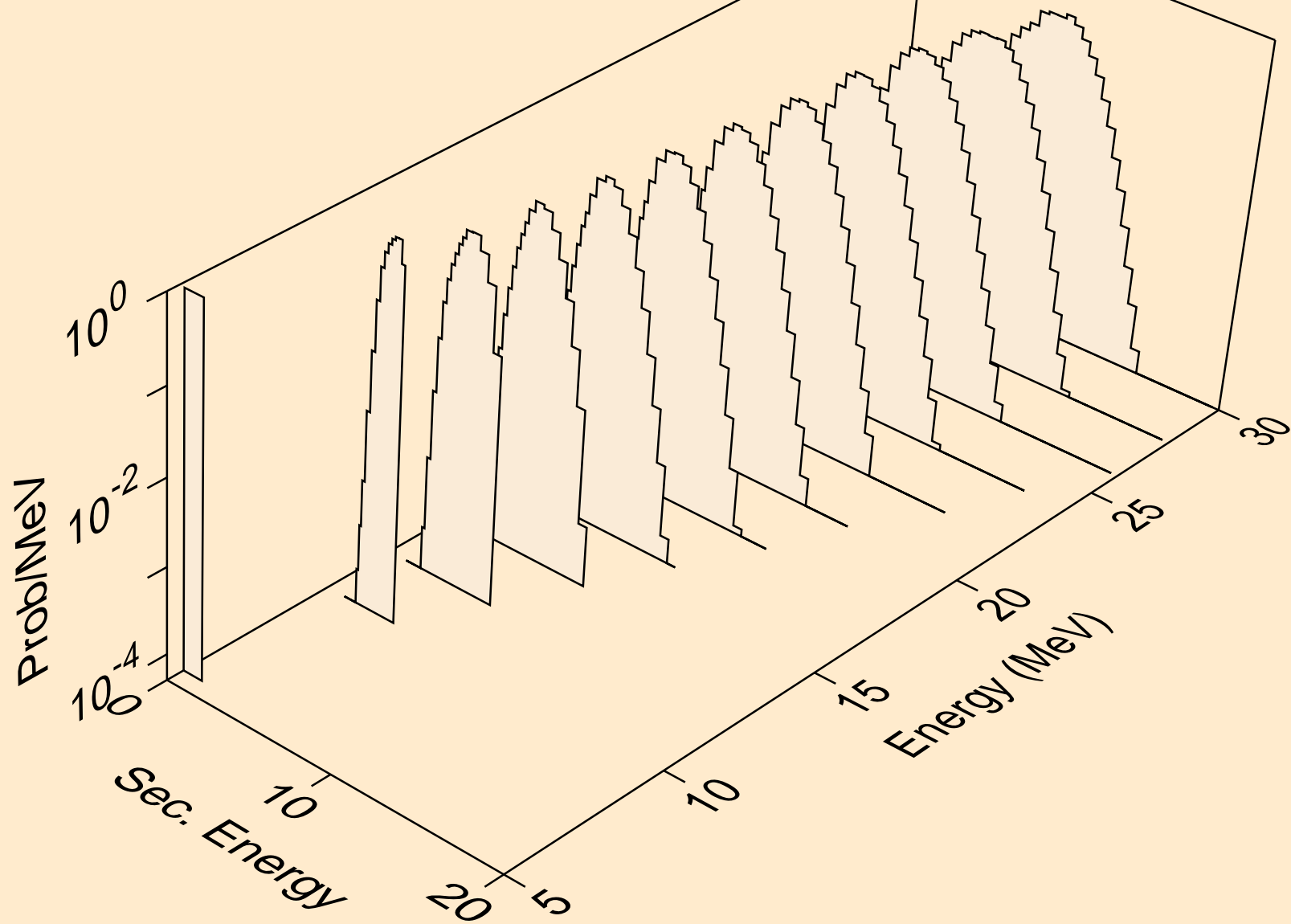
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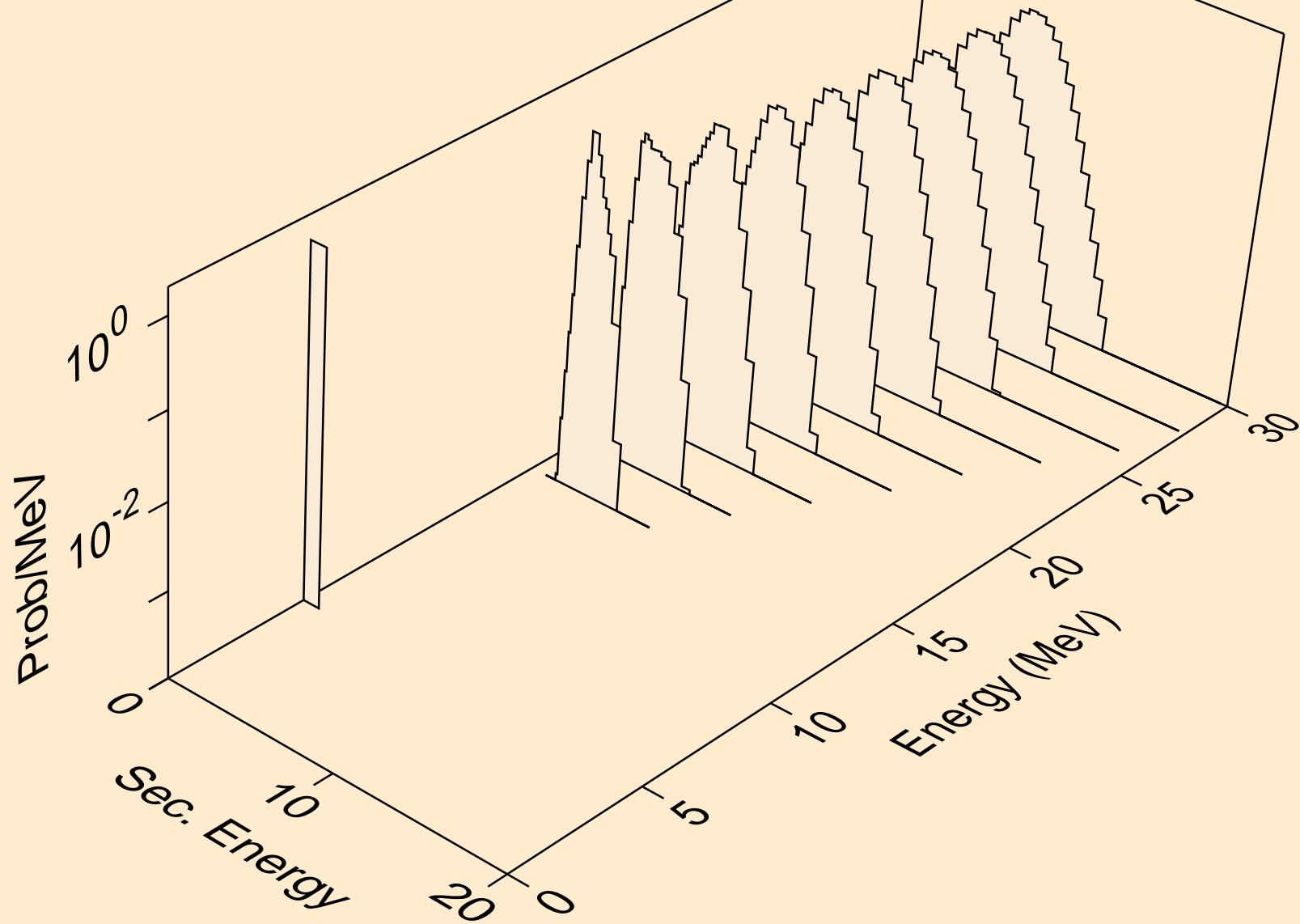
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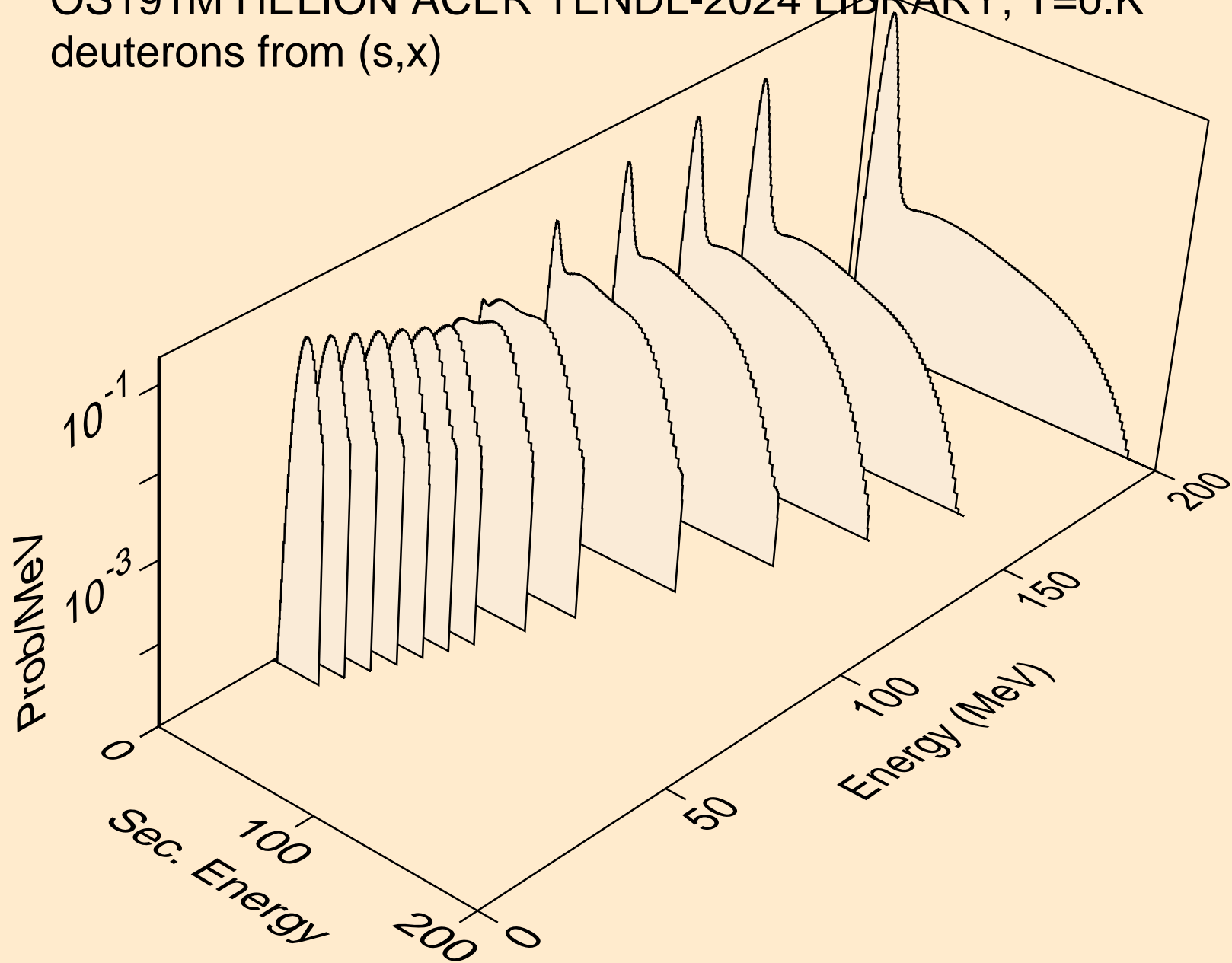
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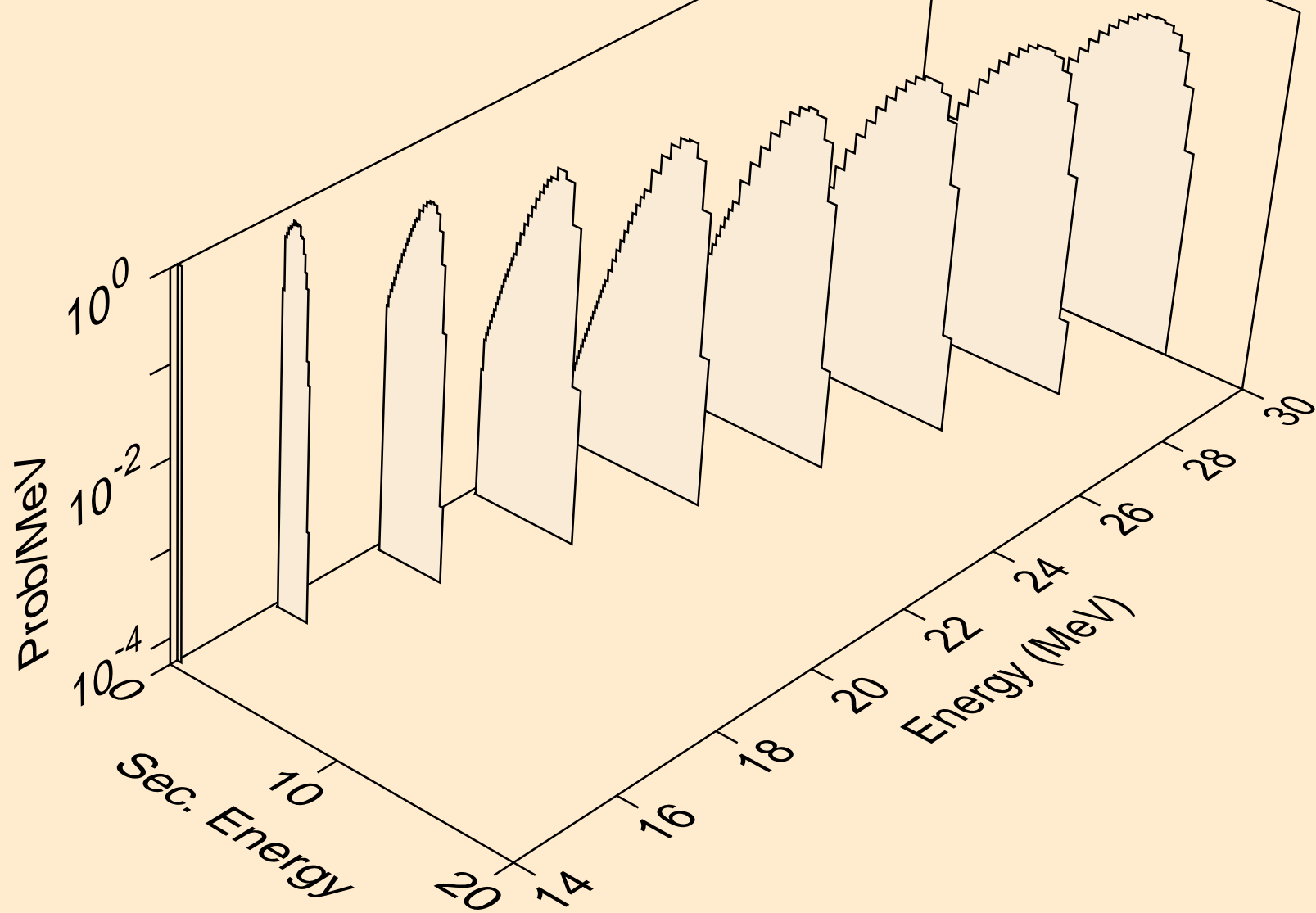
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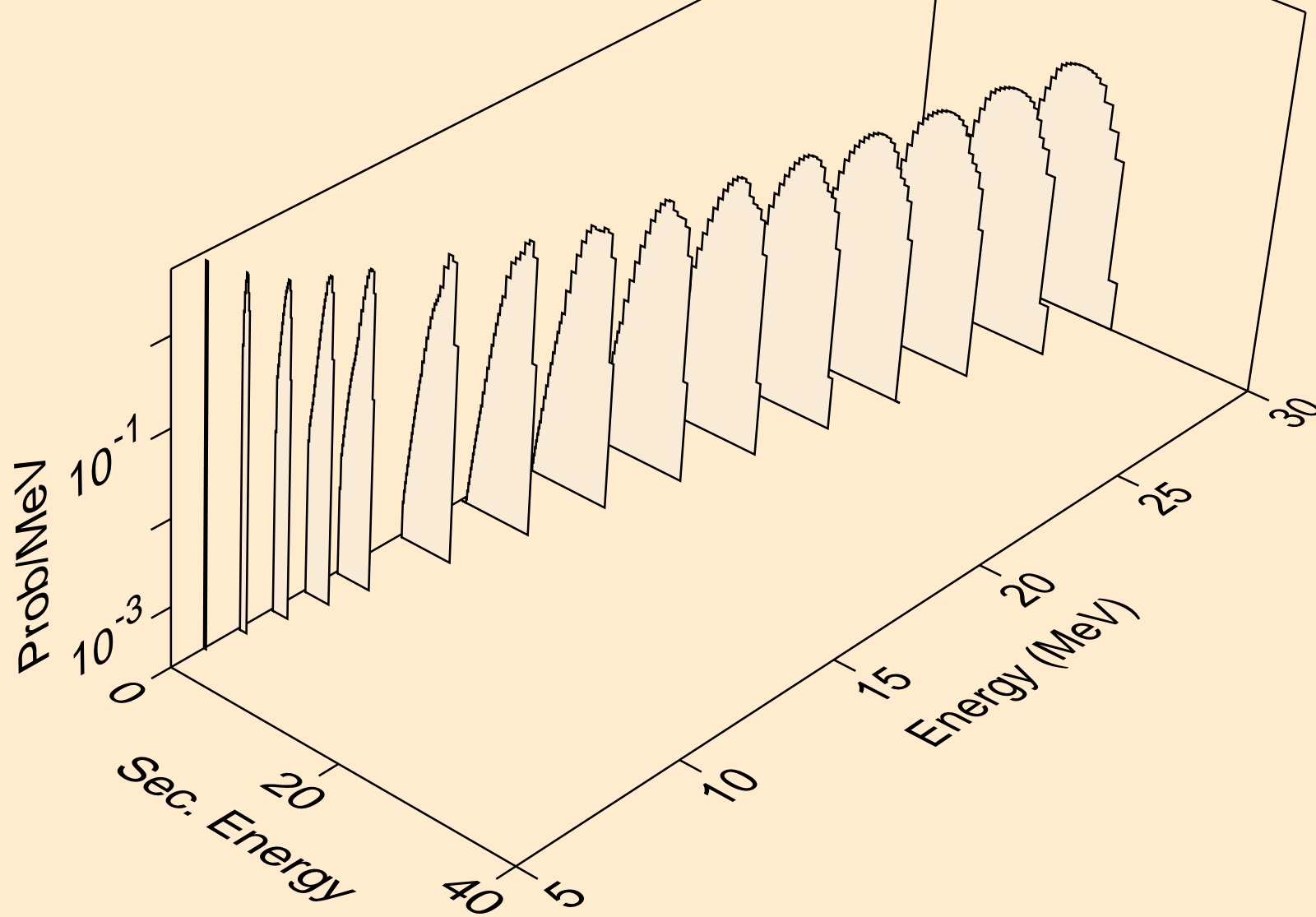
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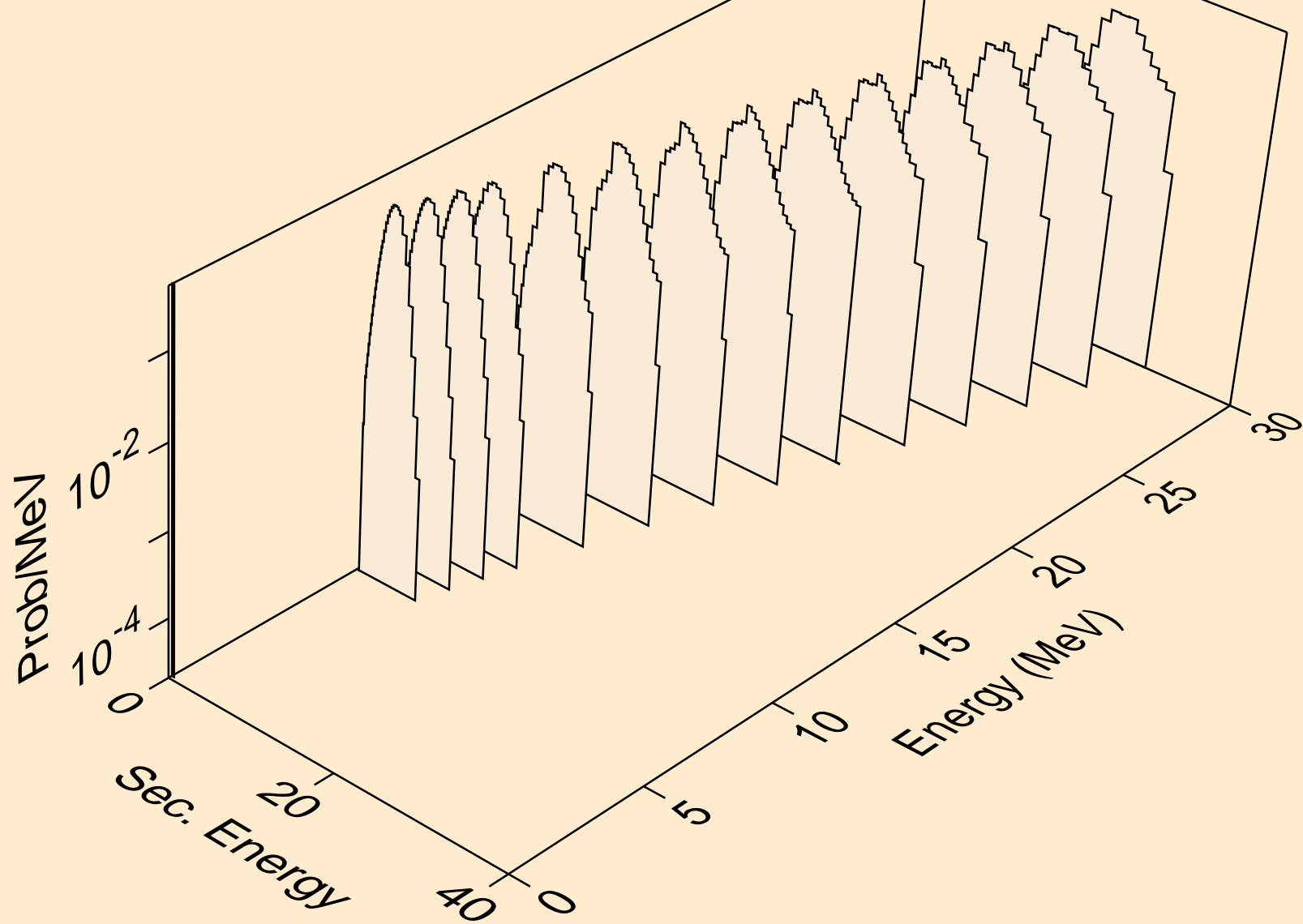
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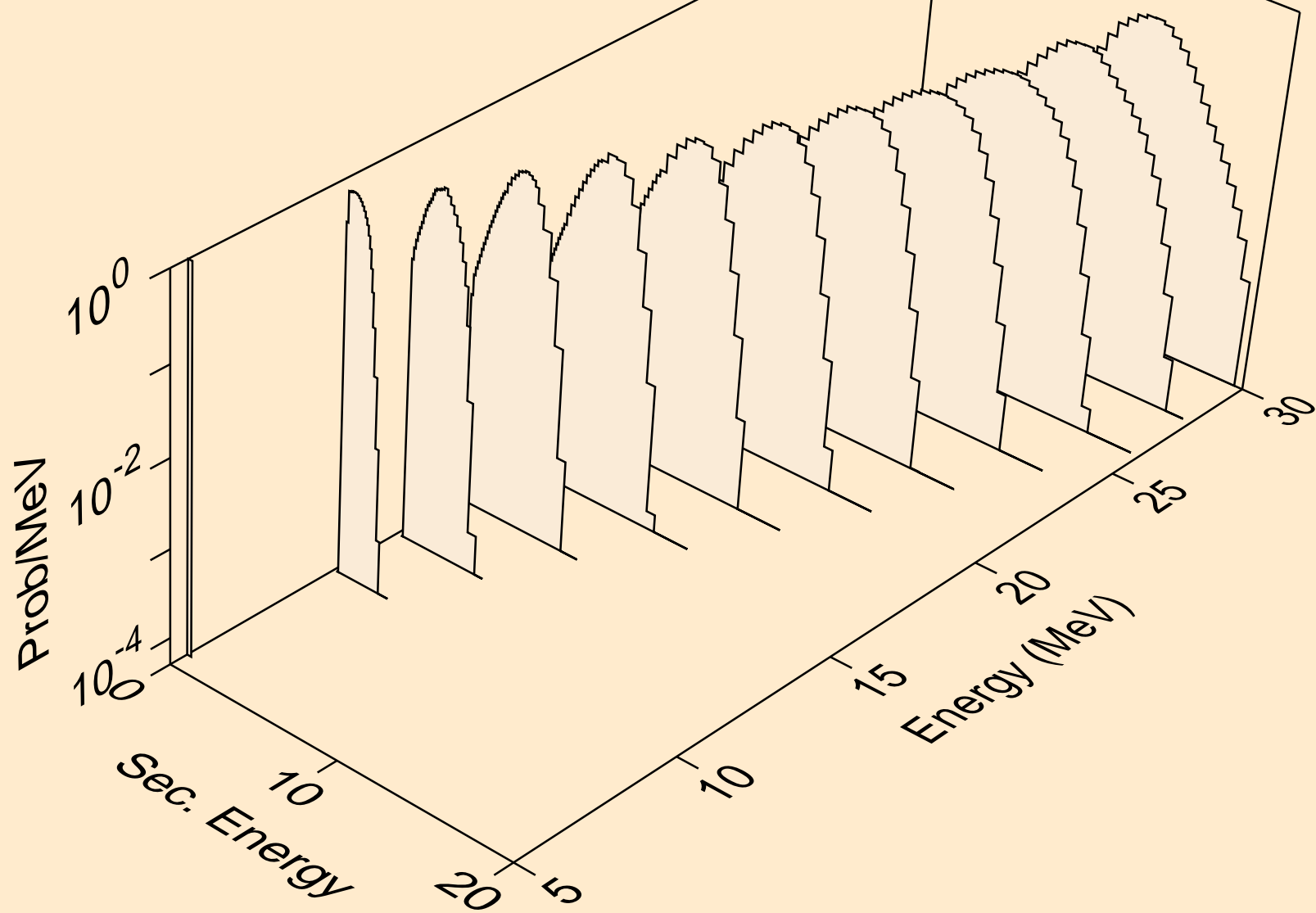
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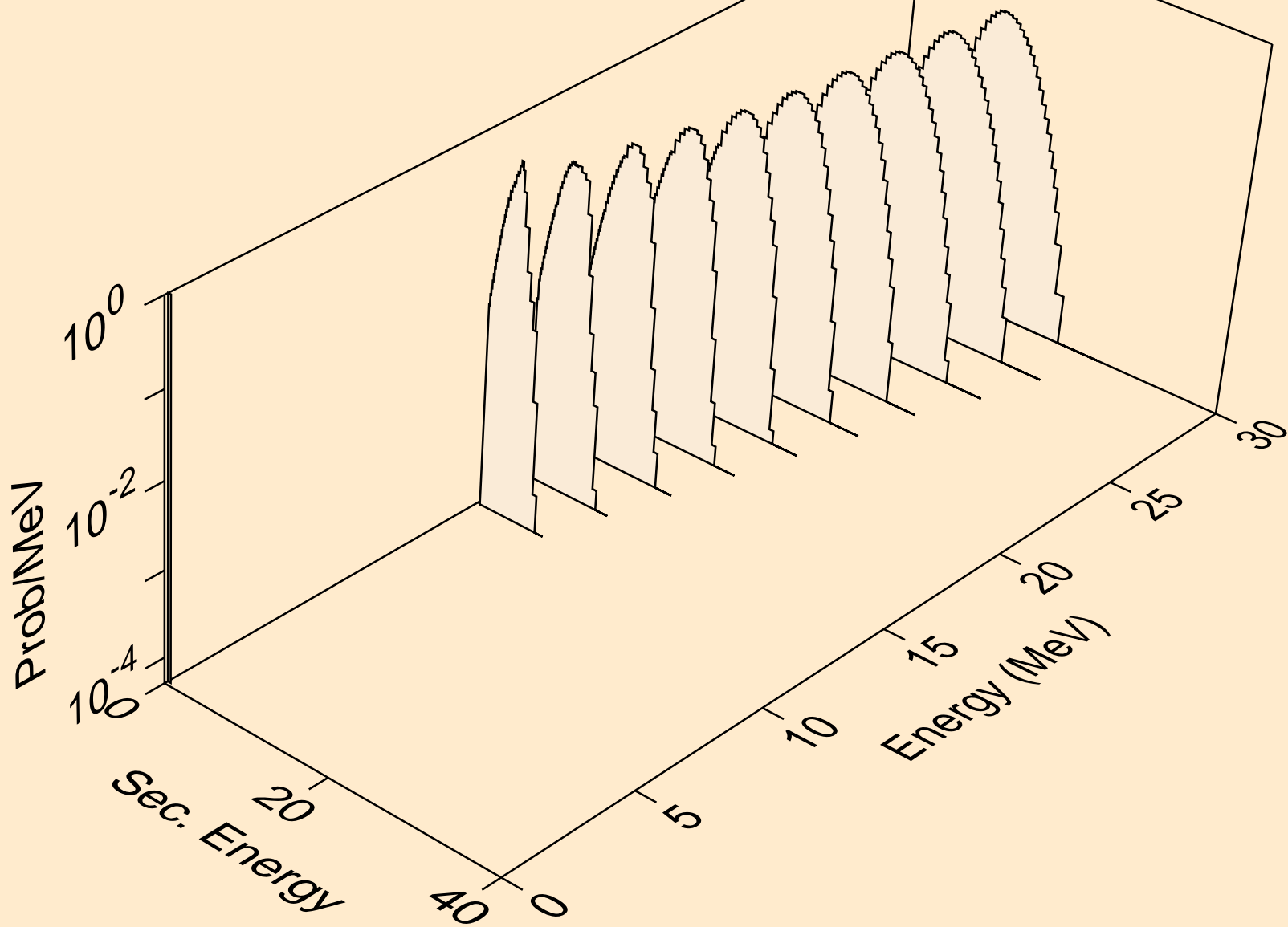
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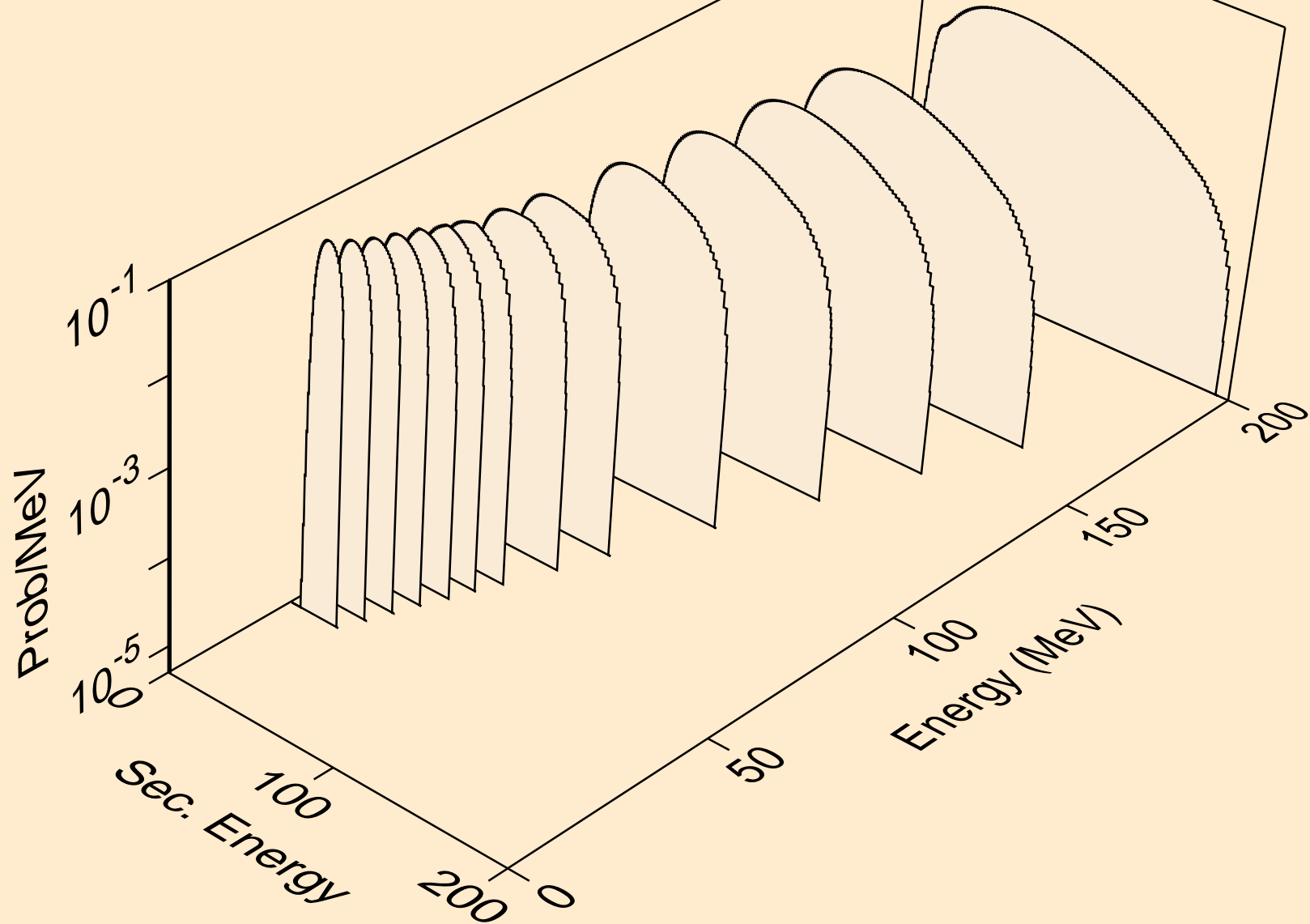
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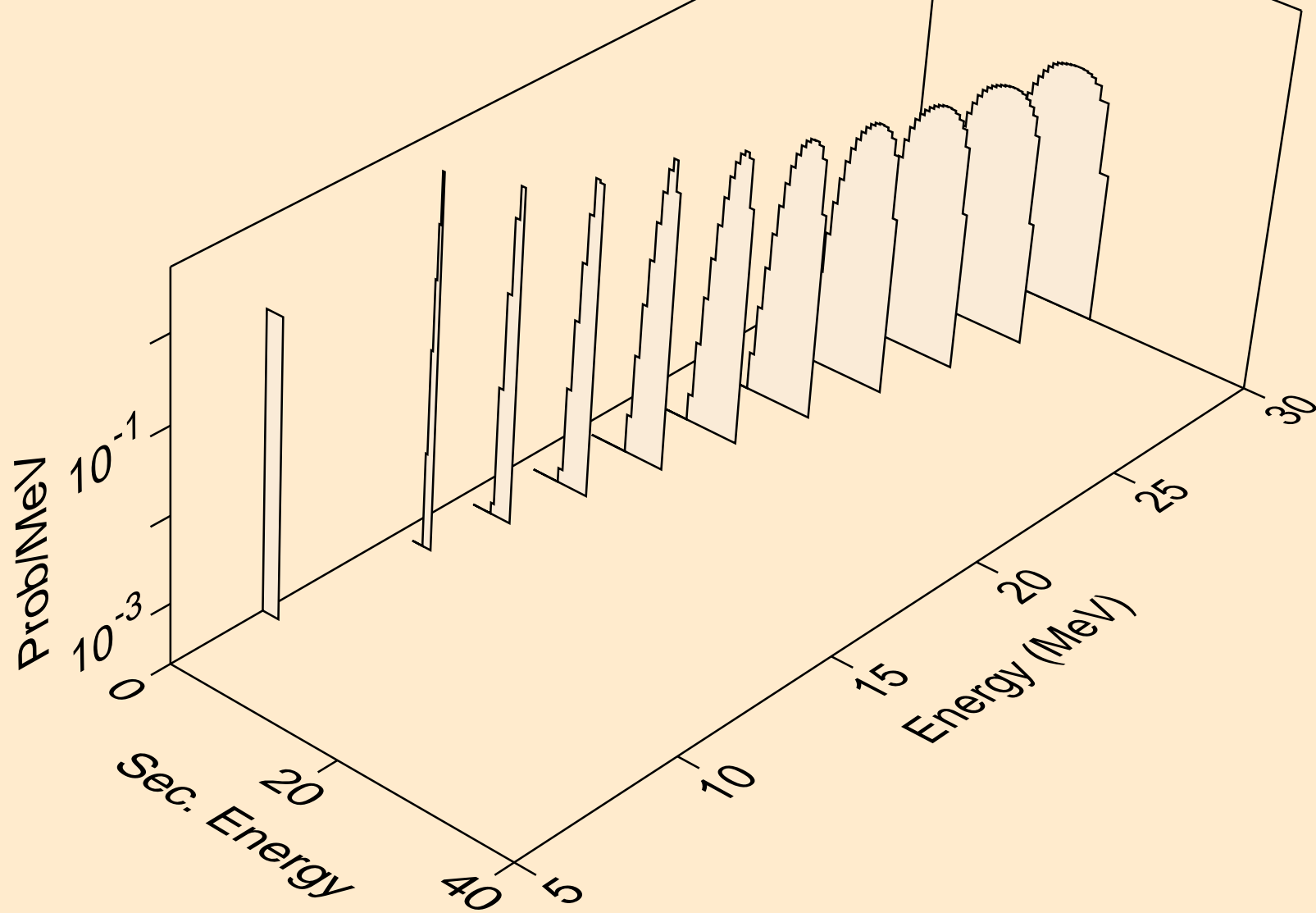
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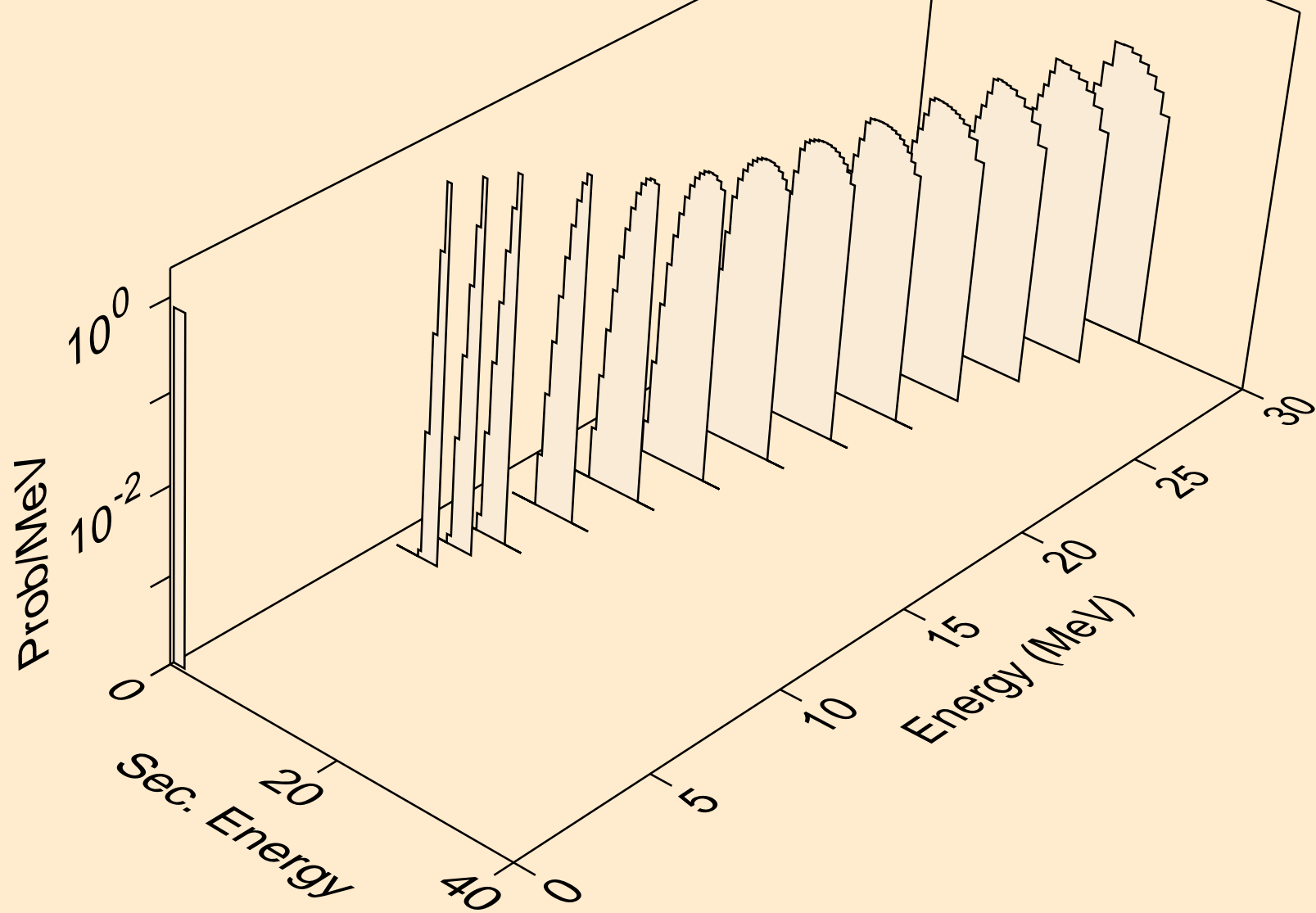
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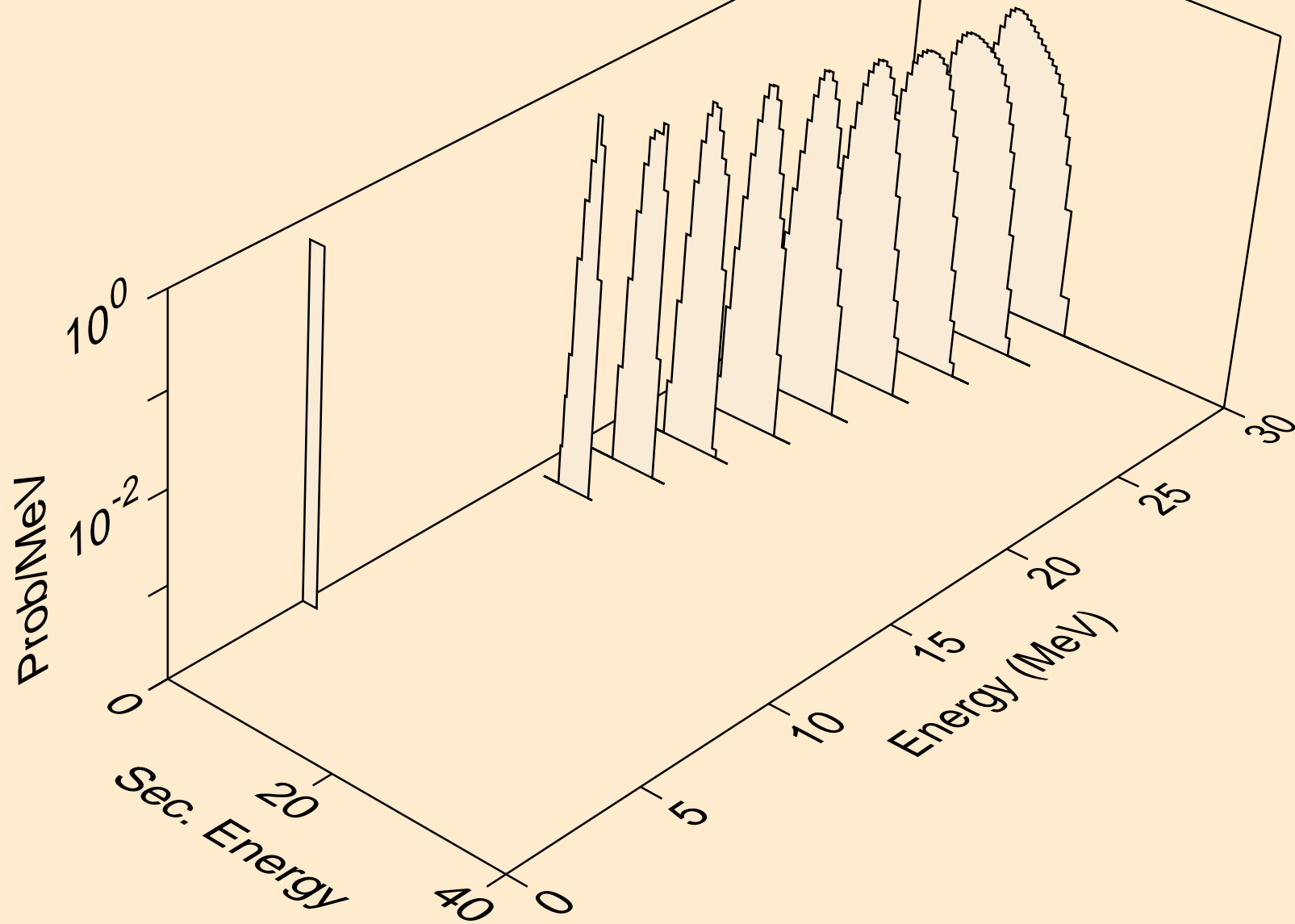
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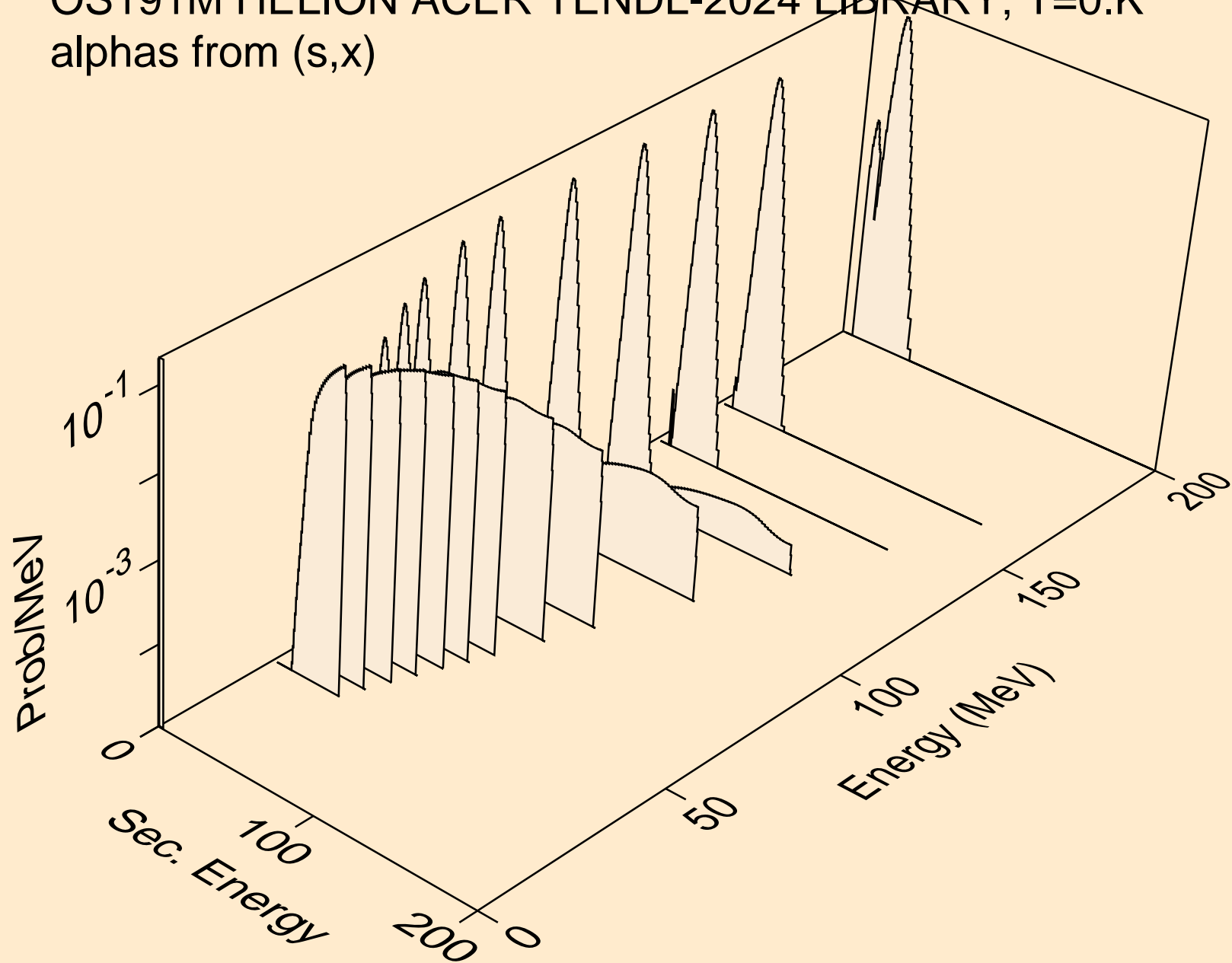
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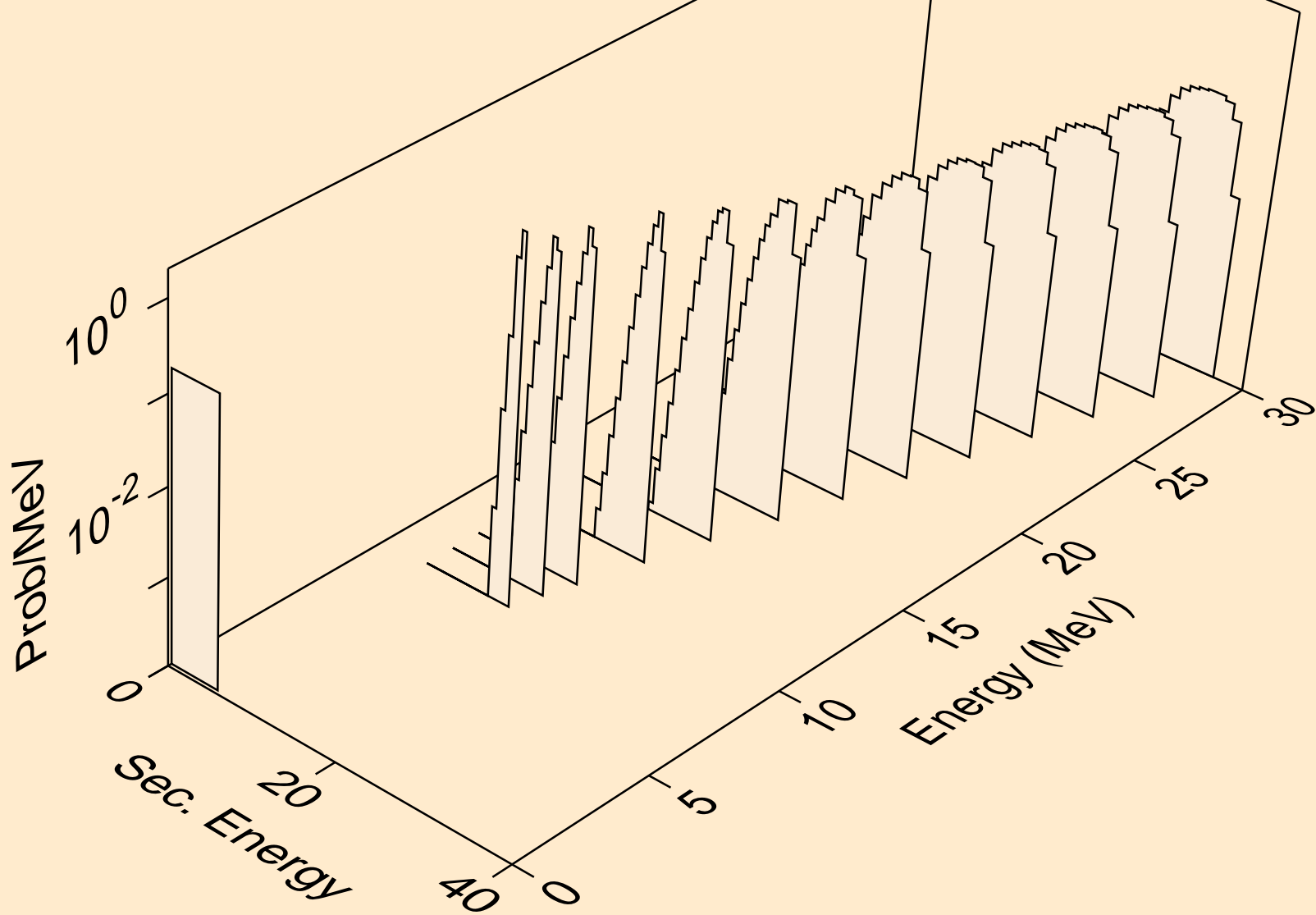
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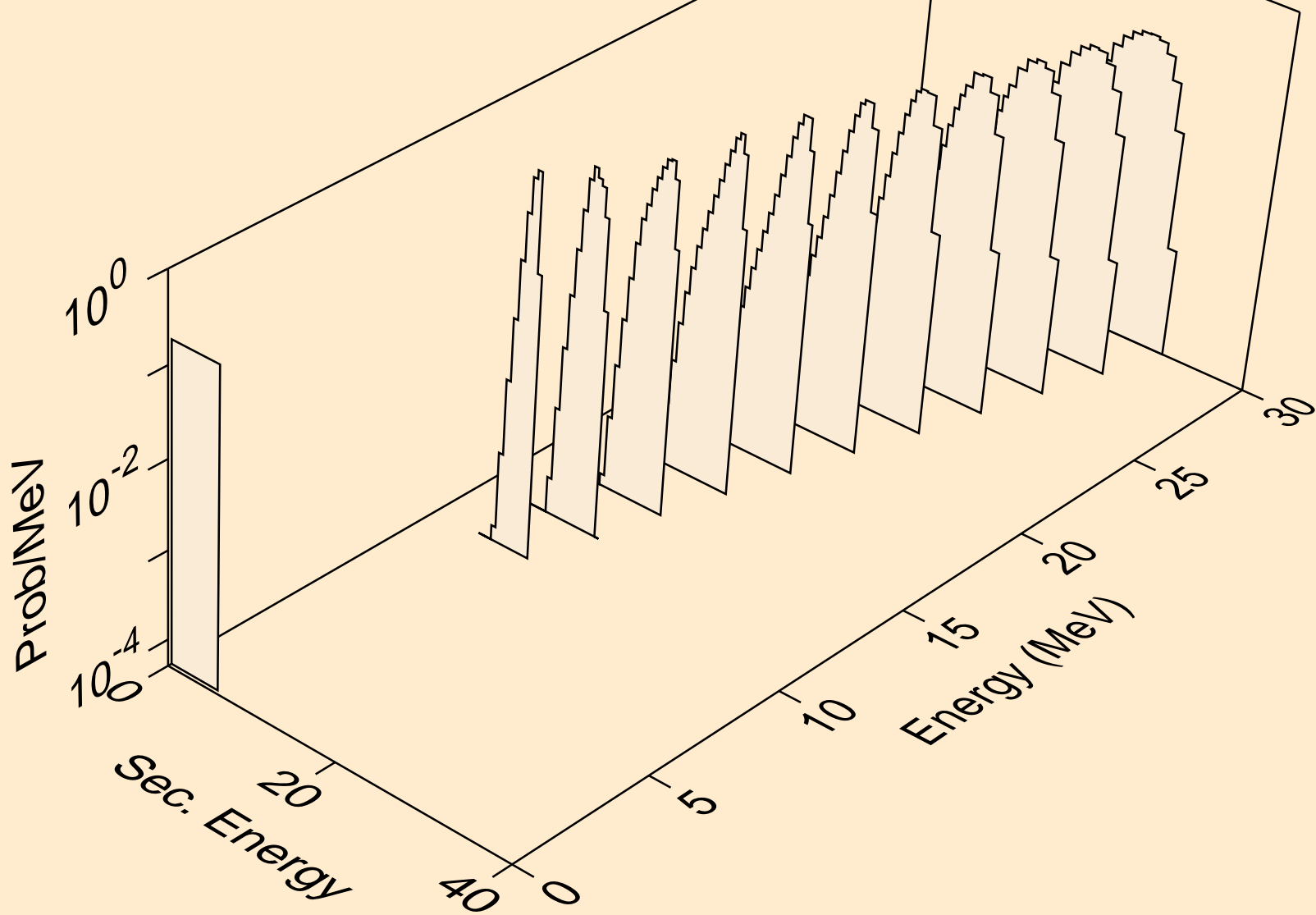
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alphas from (s,x)



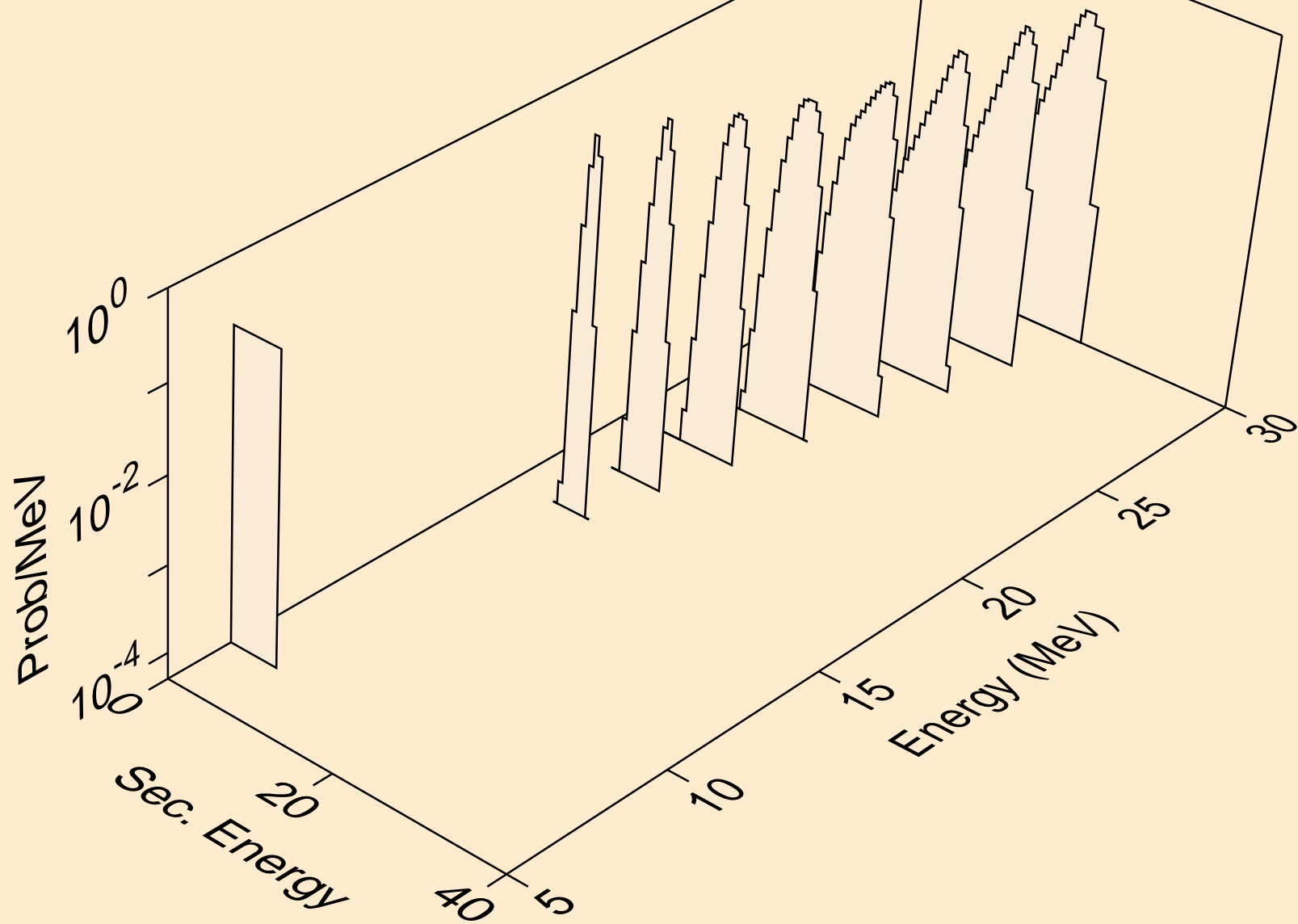
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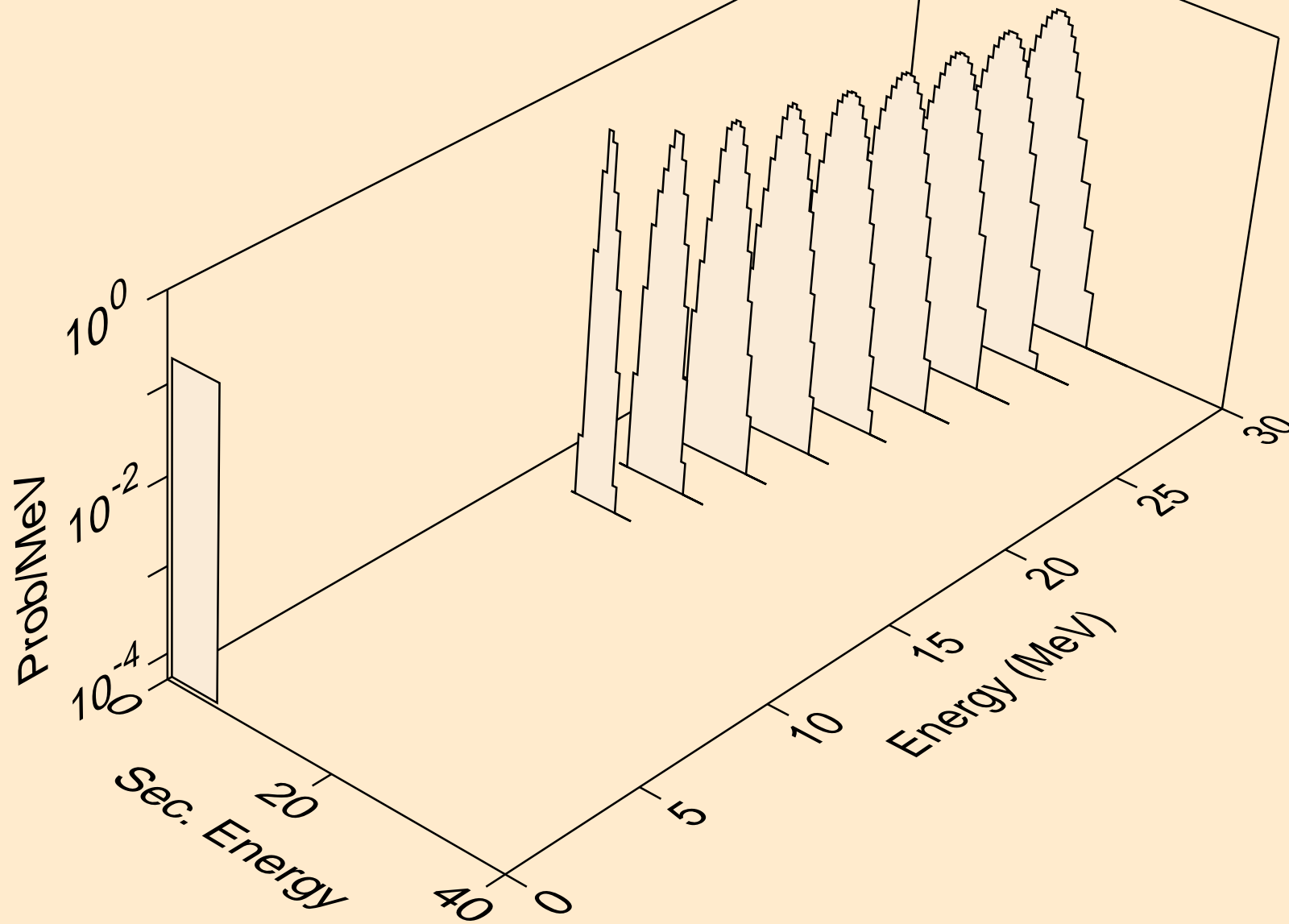
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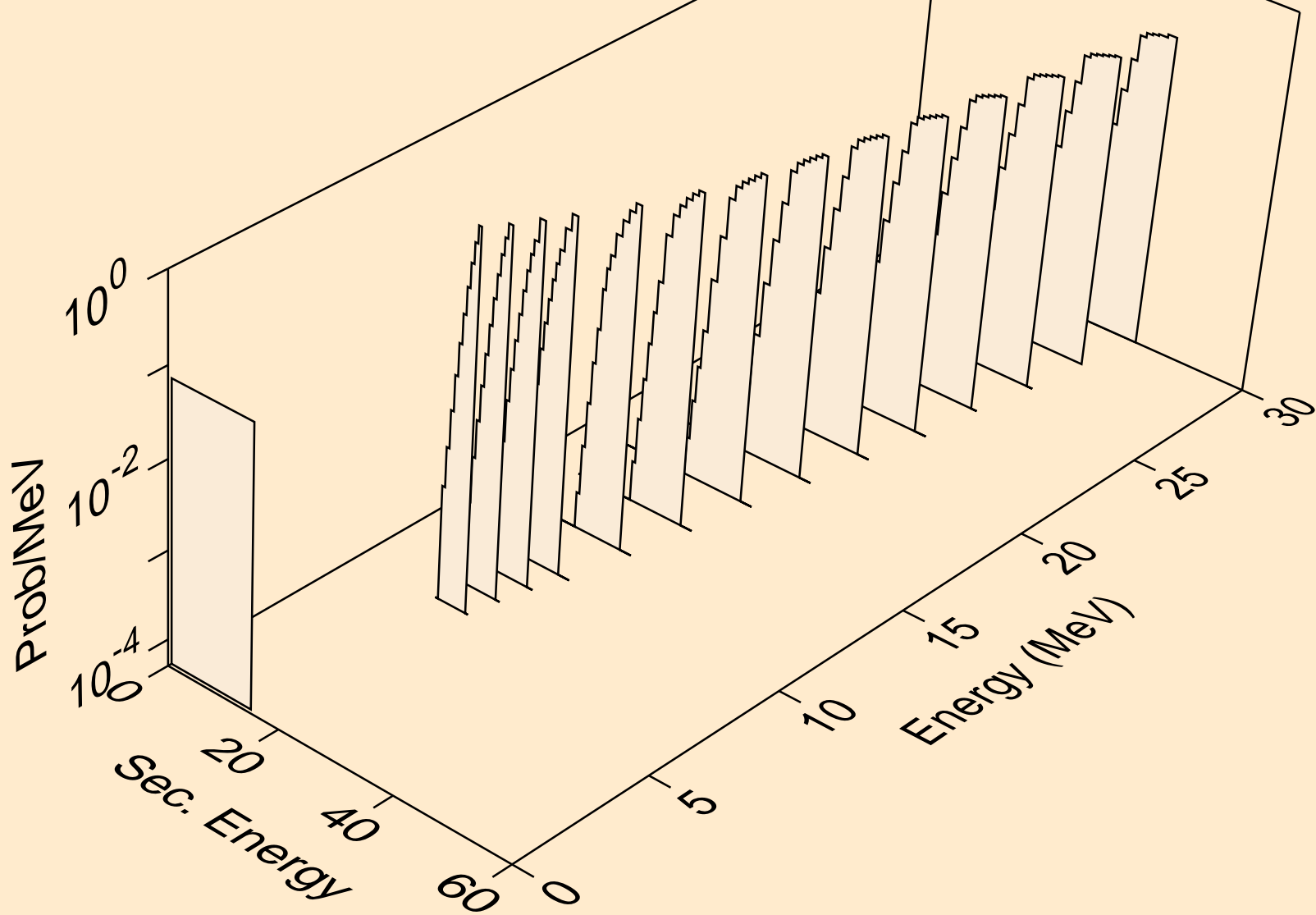
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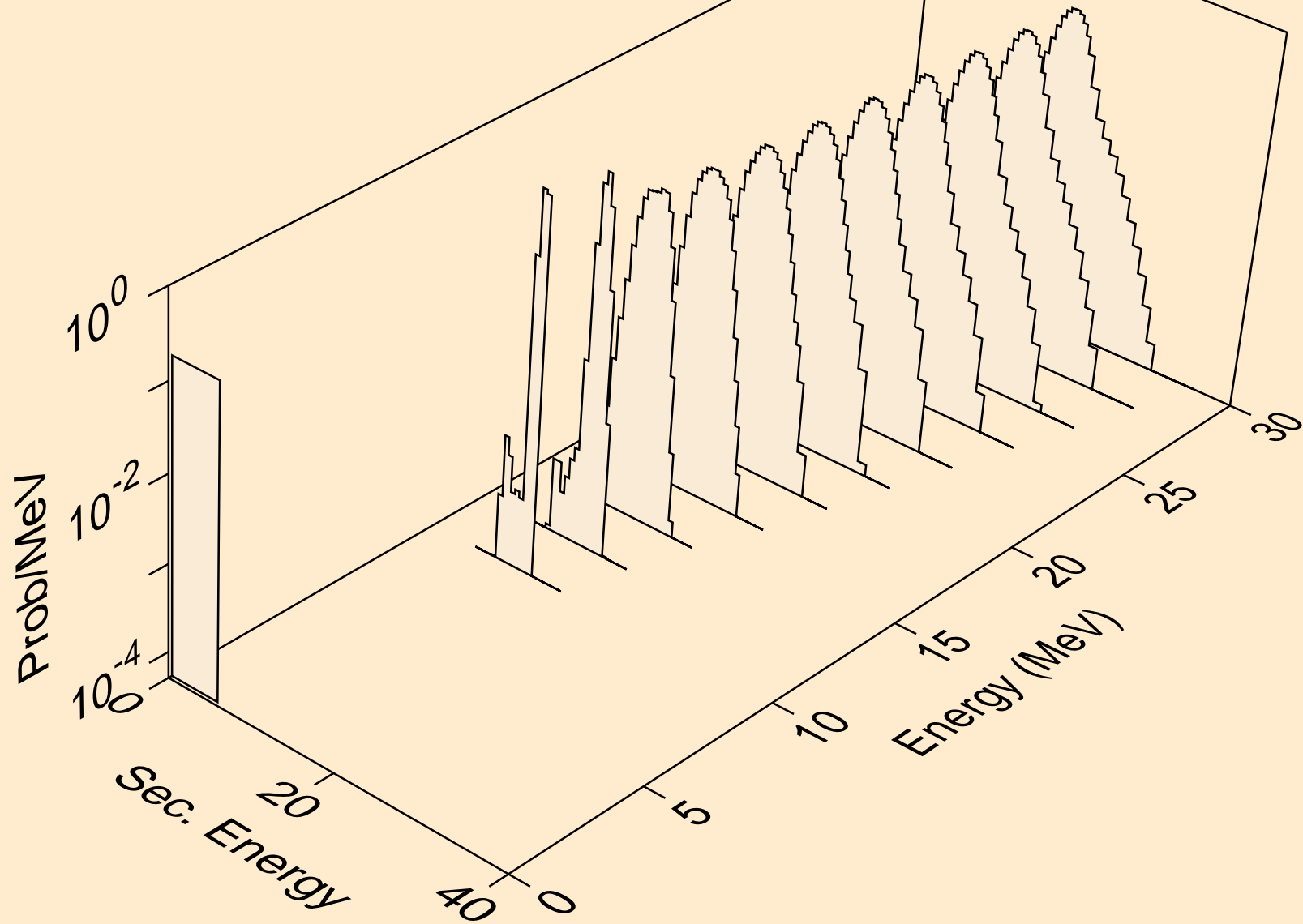
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alphas from (s,npa)



OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,a)



OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,pa)



OS191M HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,da)

