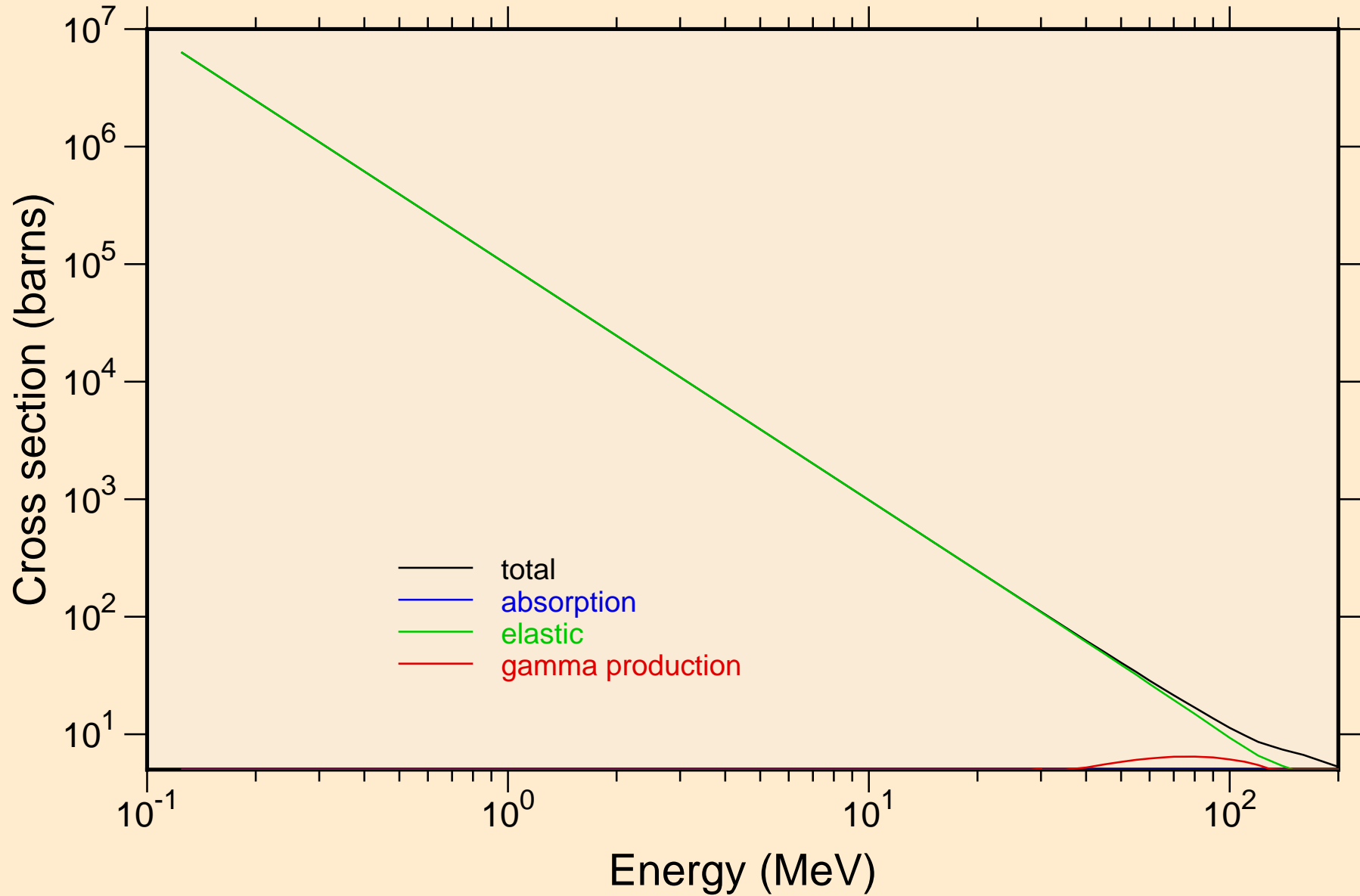


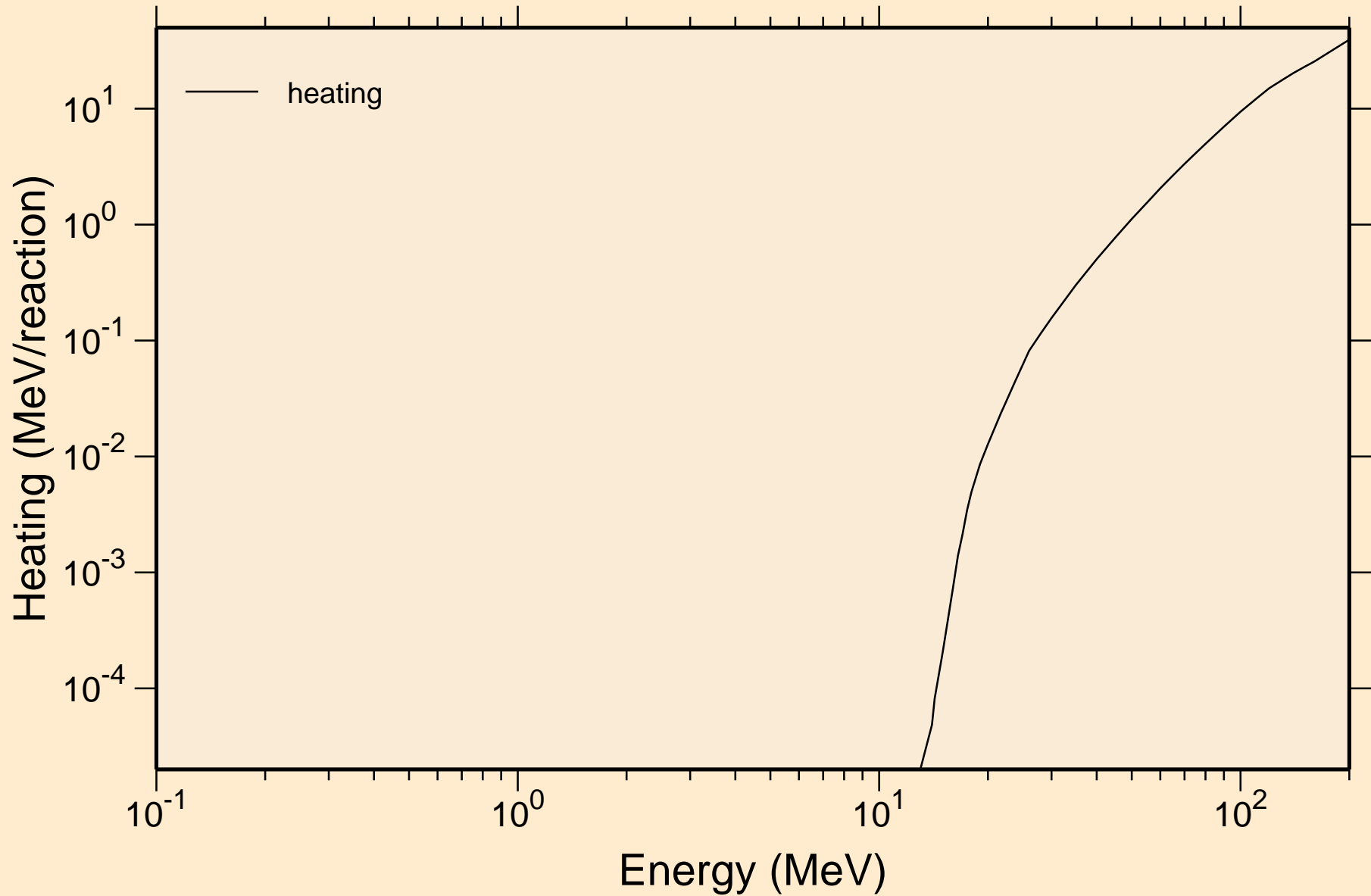
# SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



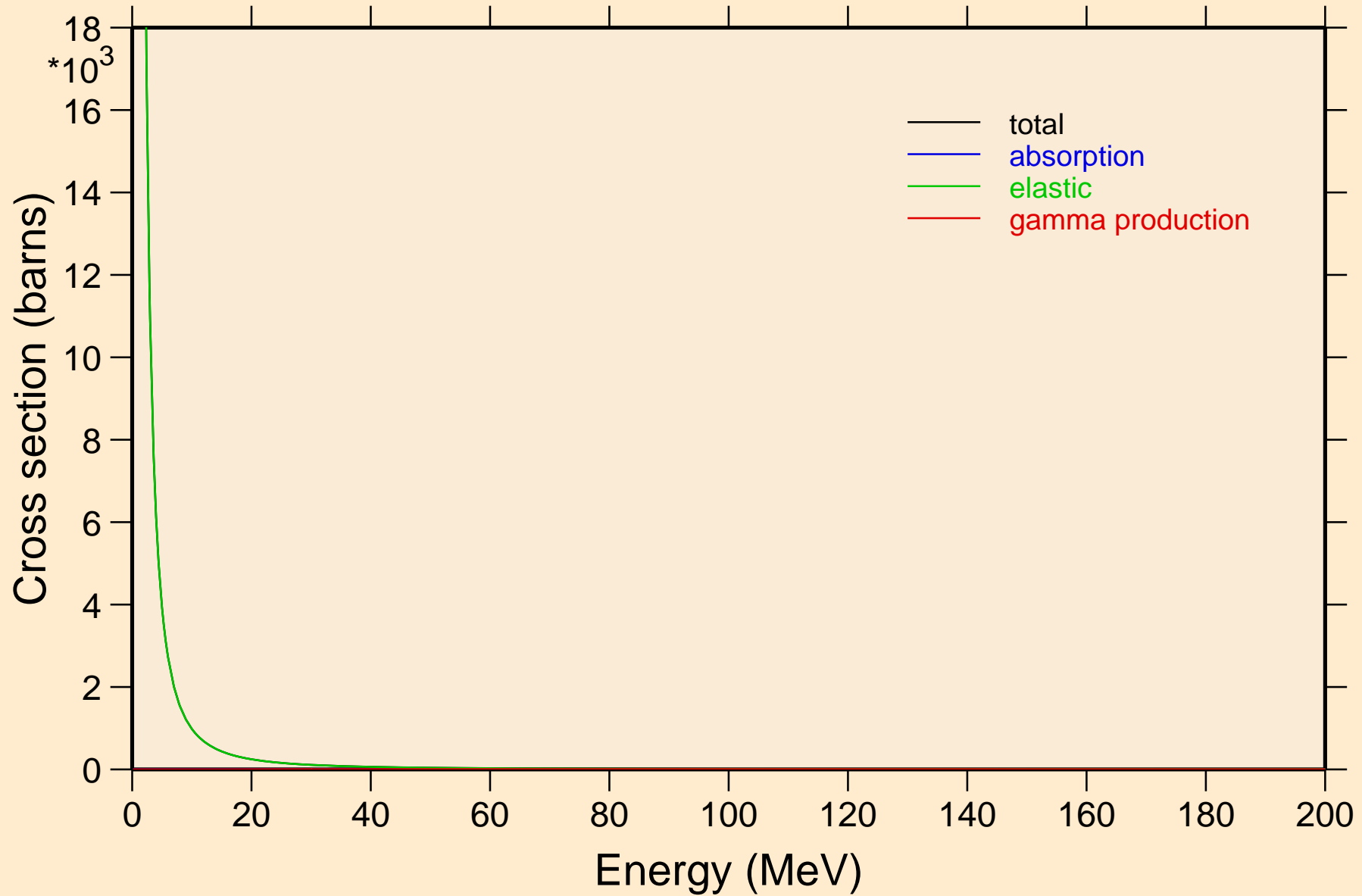
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



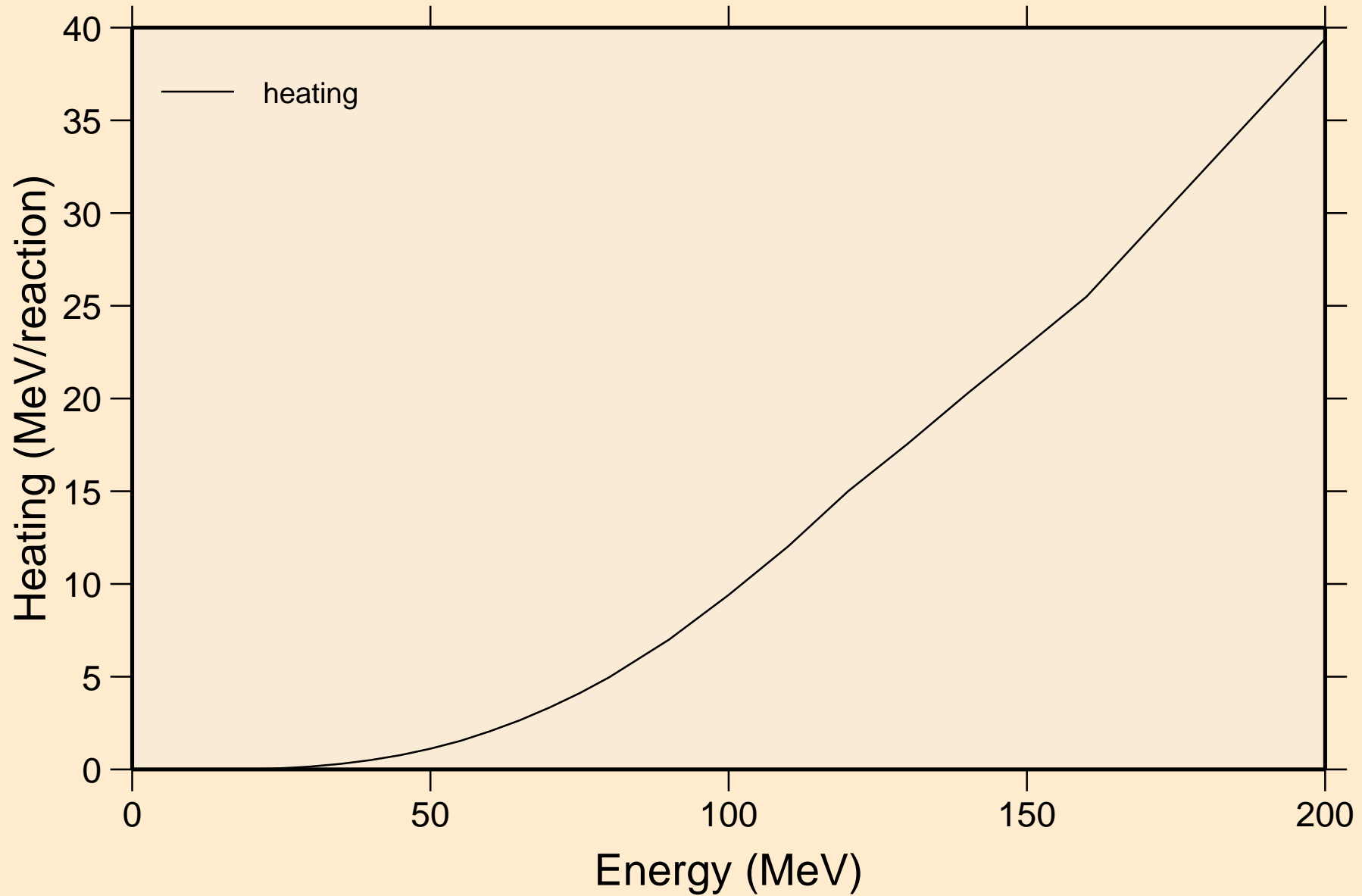
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## Principal cross sections



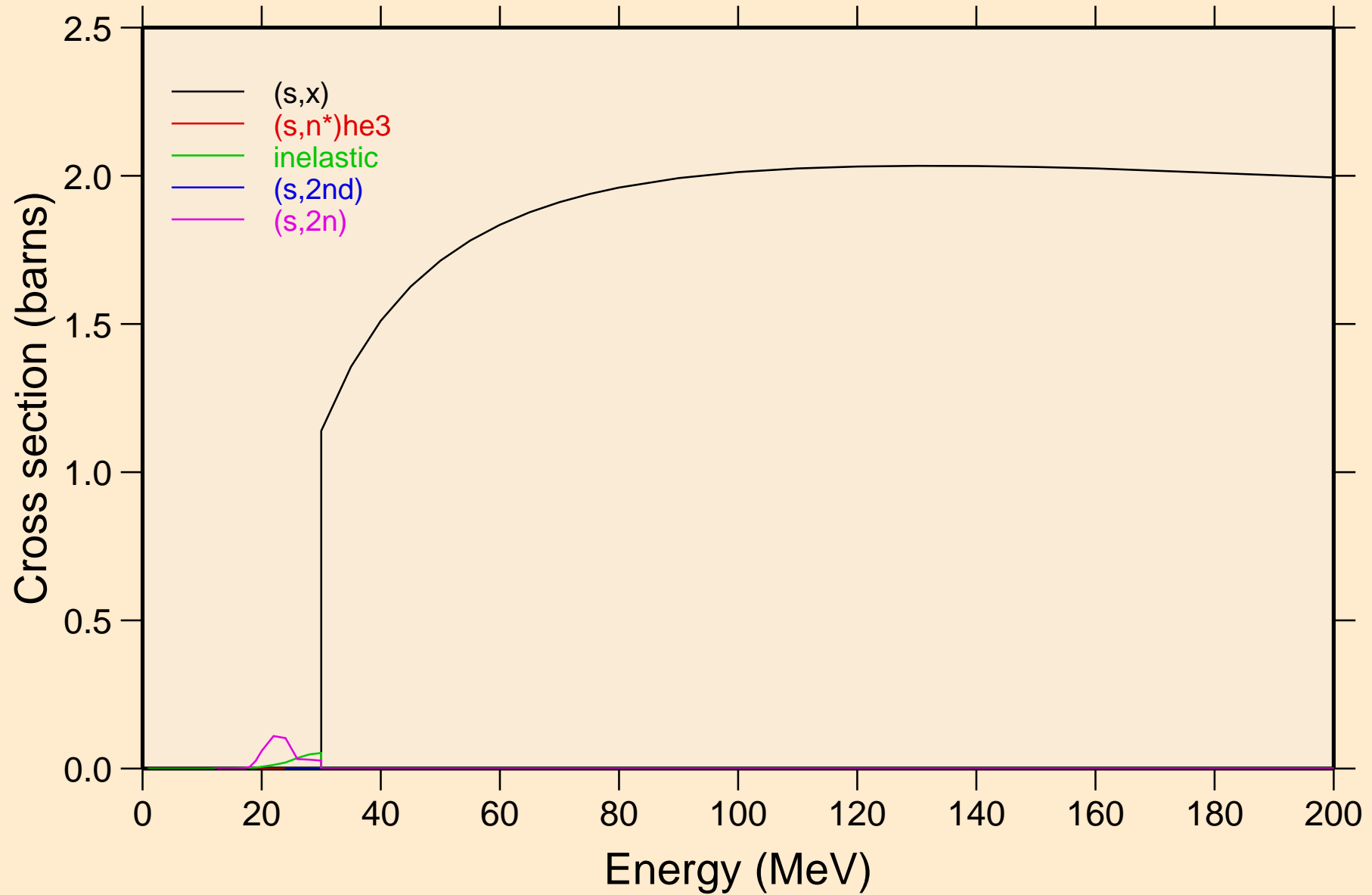
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## Heating

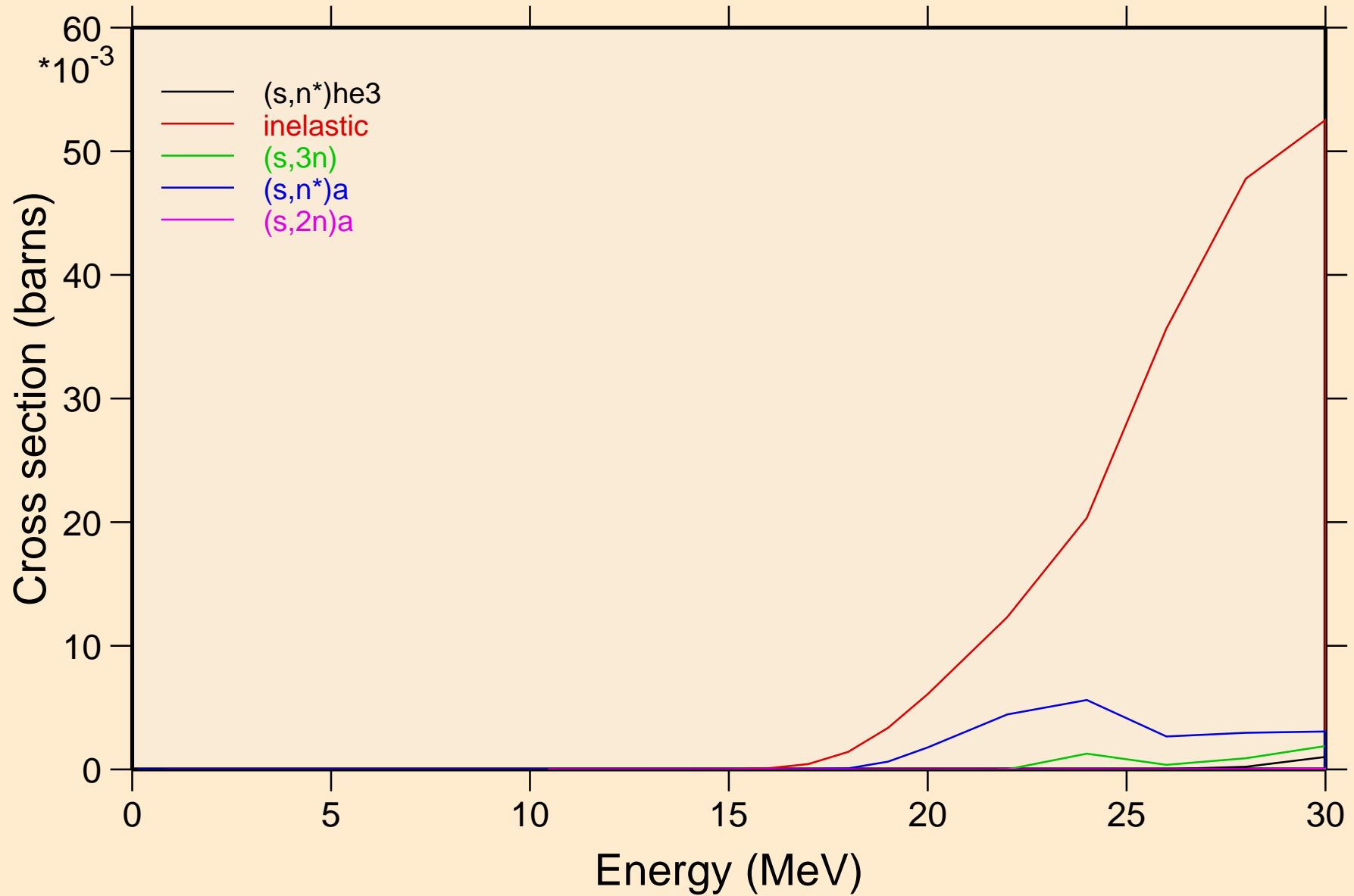


# SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

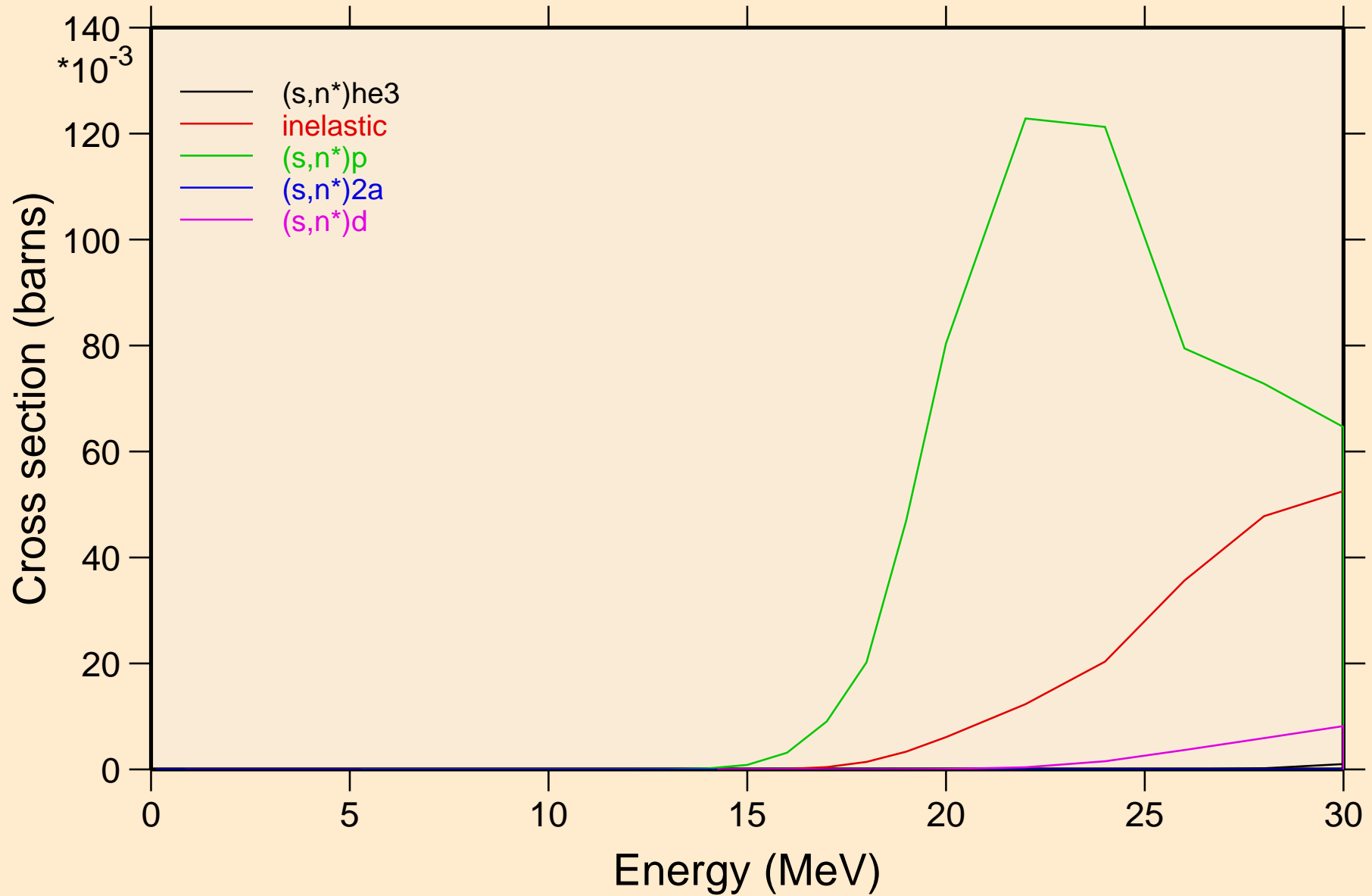


SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



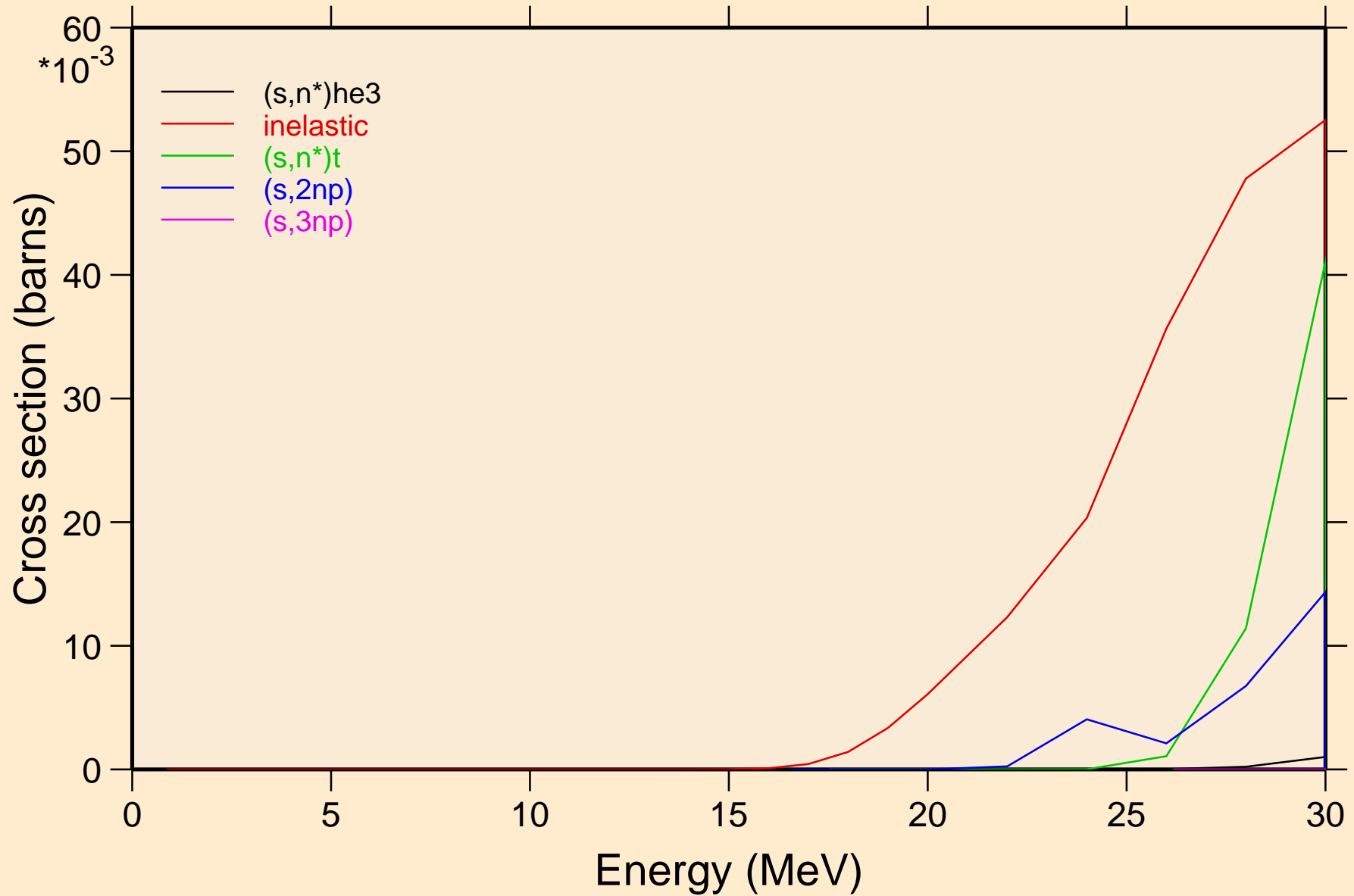
# SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

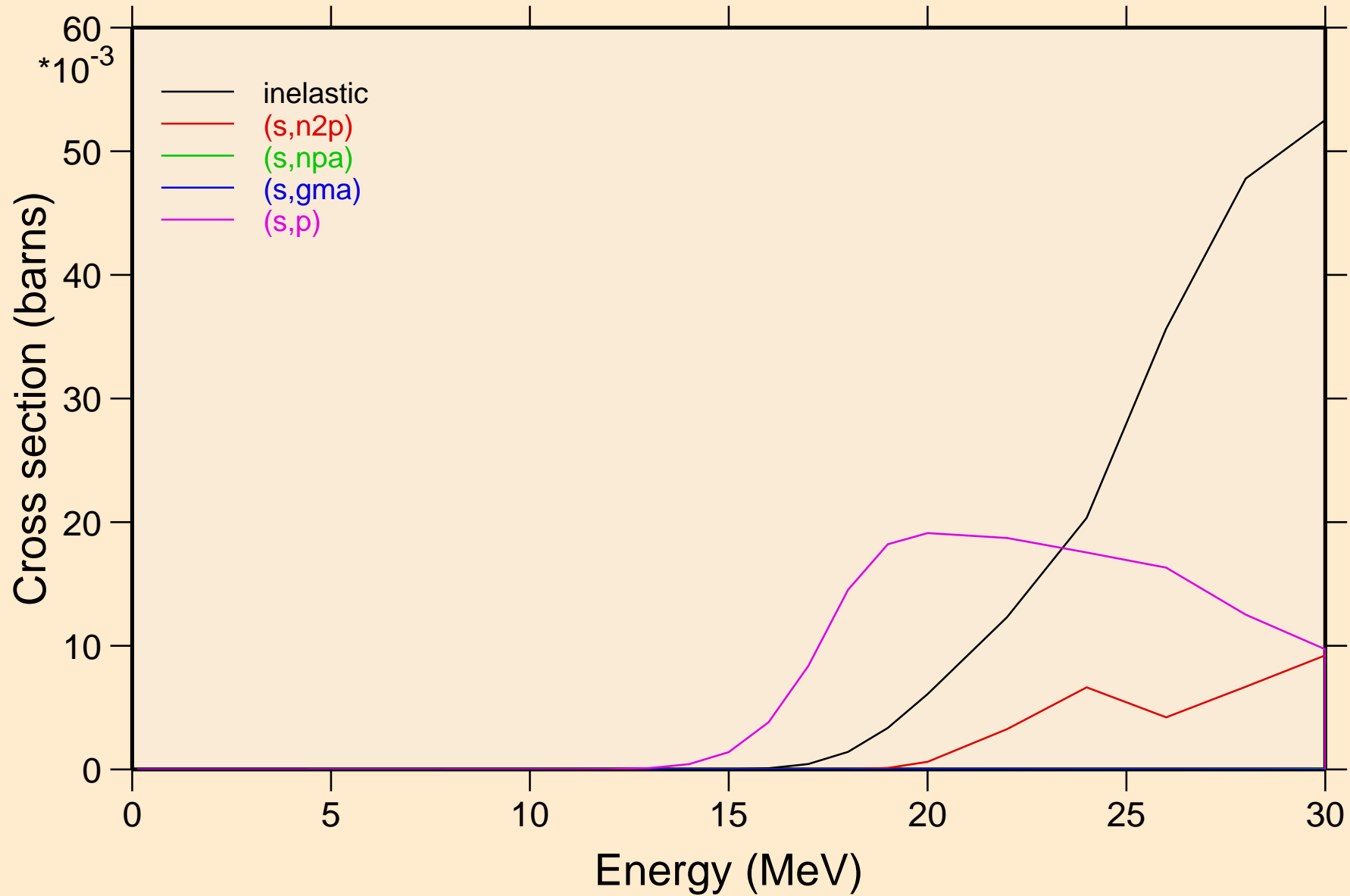


# SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K

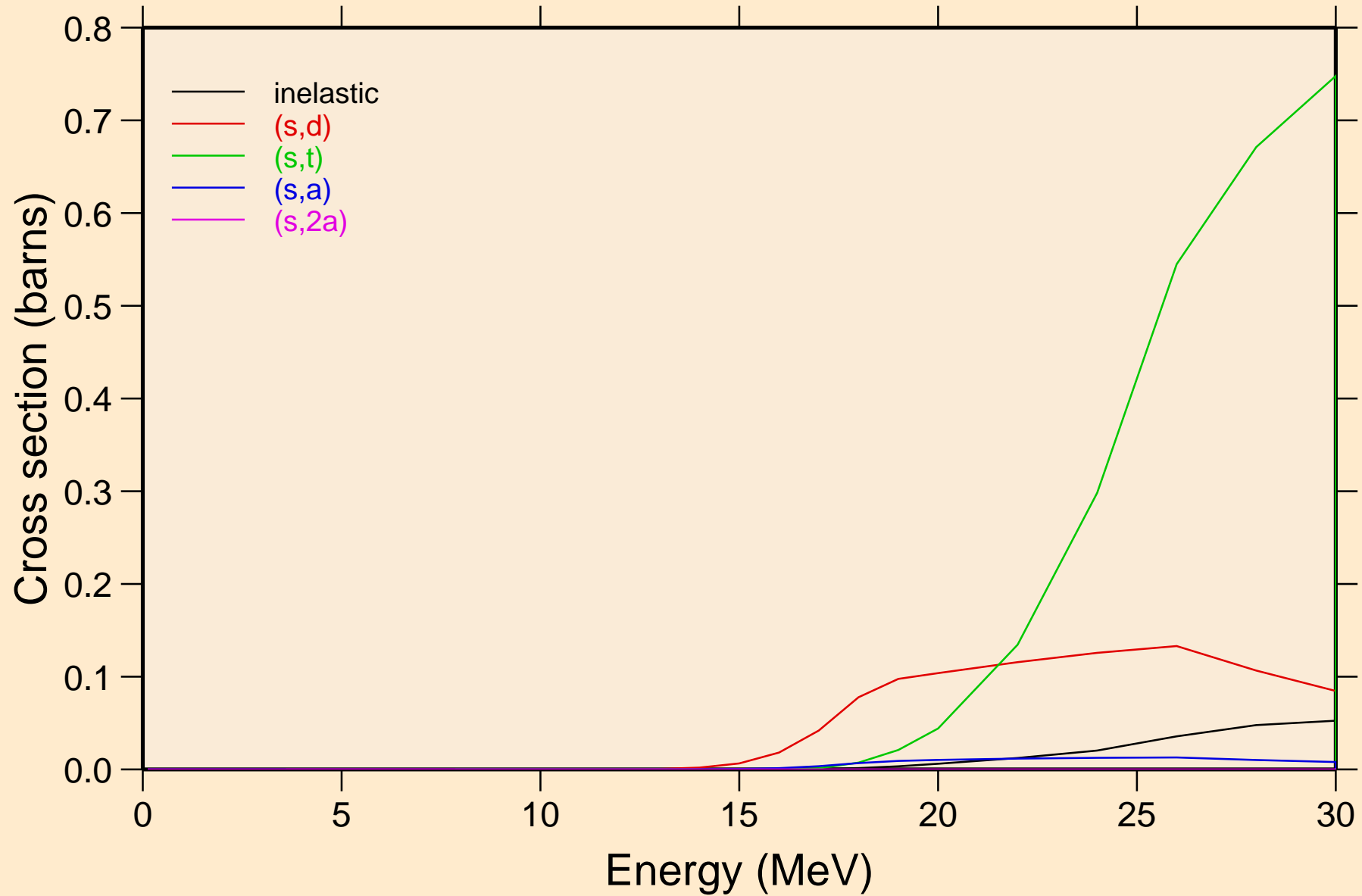
## Threshold reactions



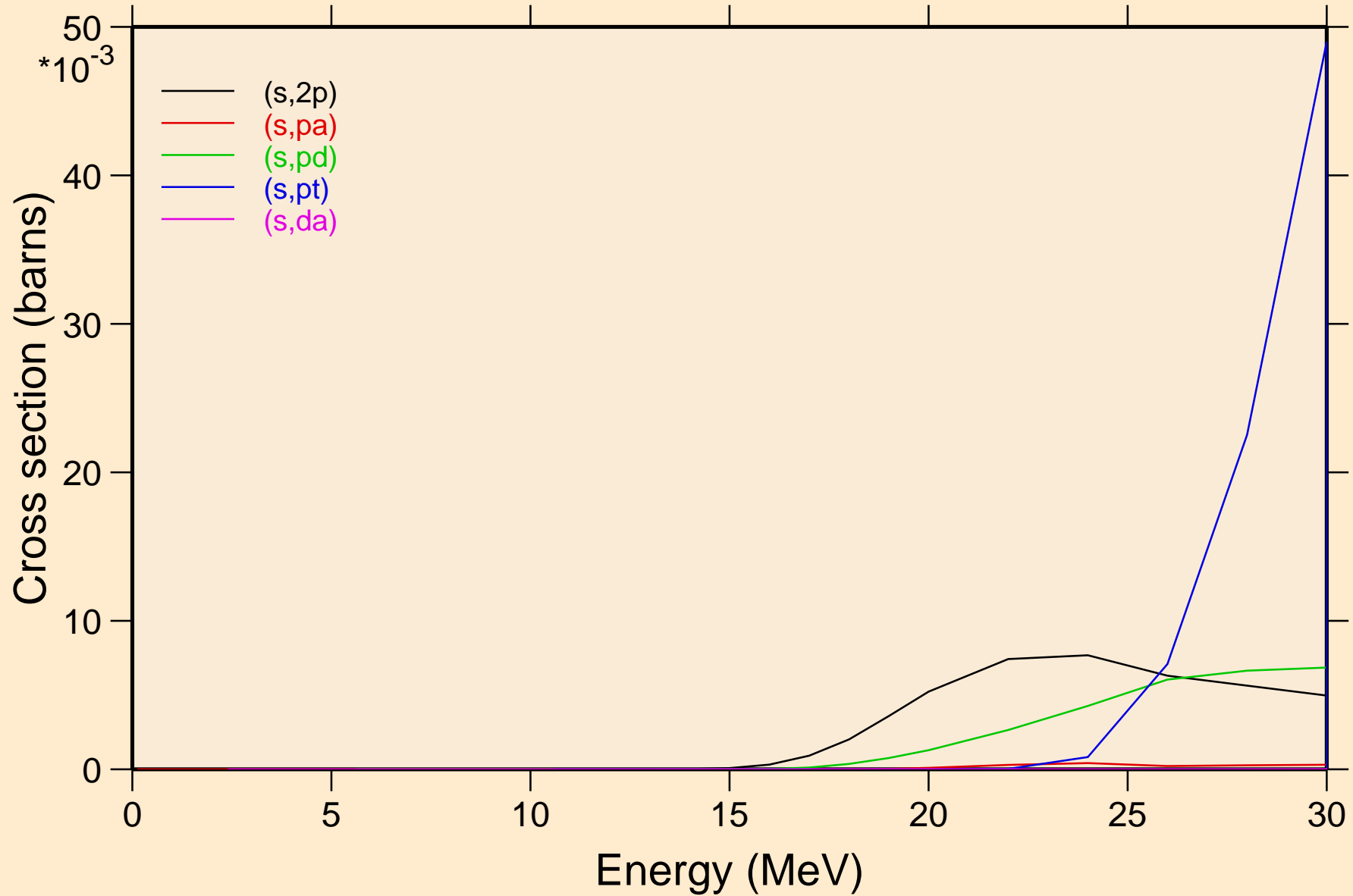
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



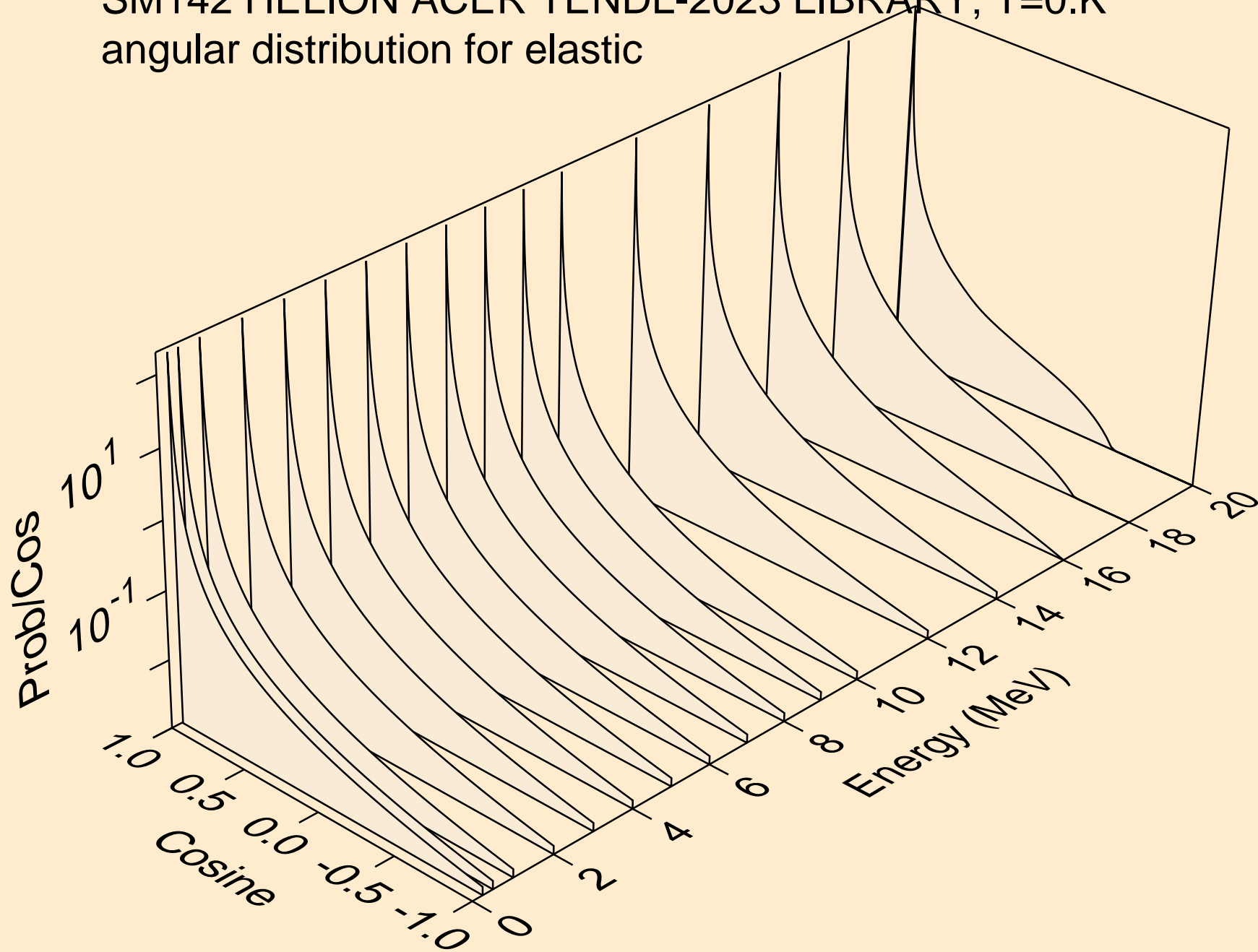
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



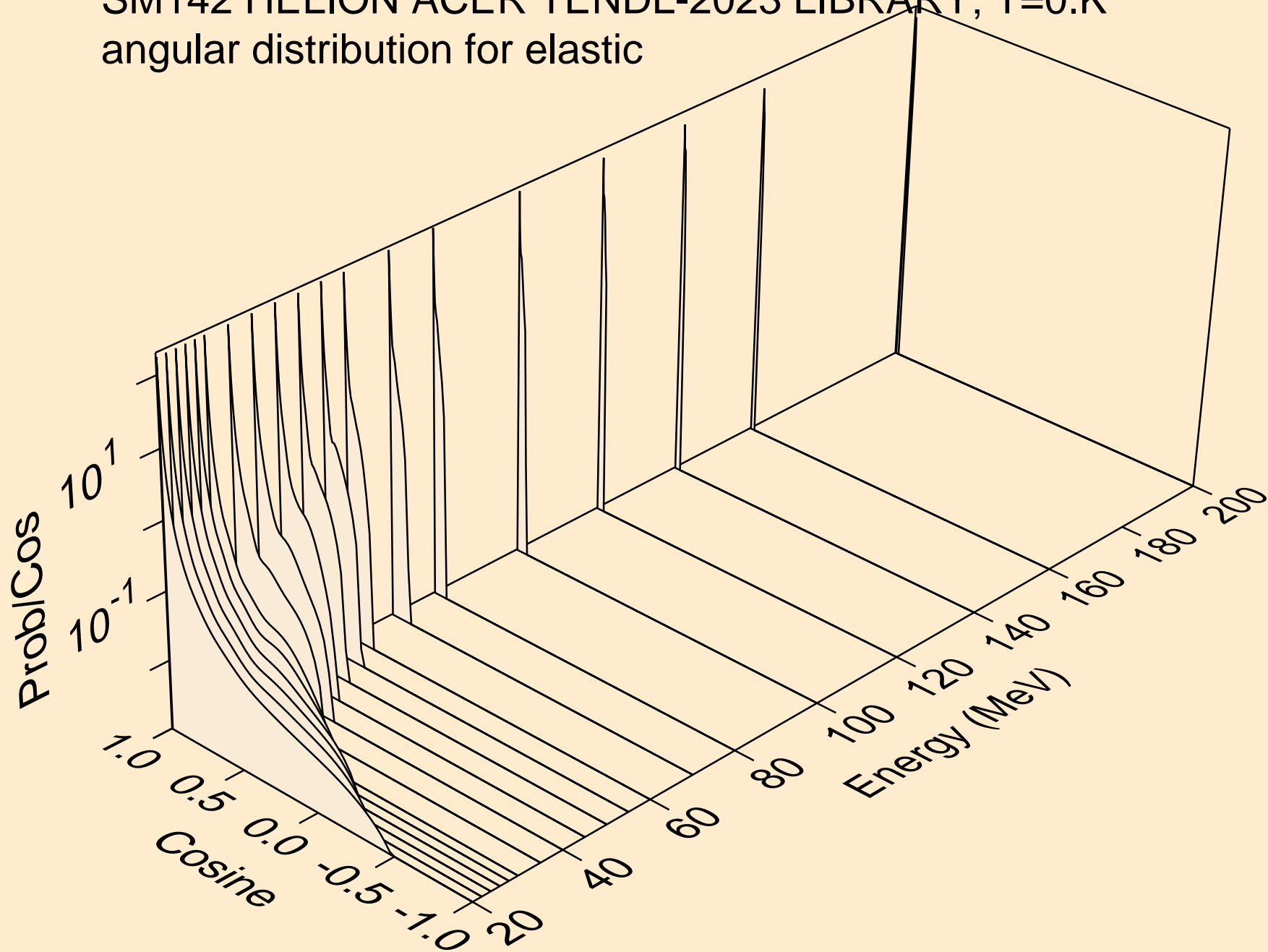
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Threshold reactions



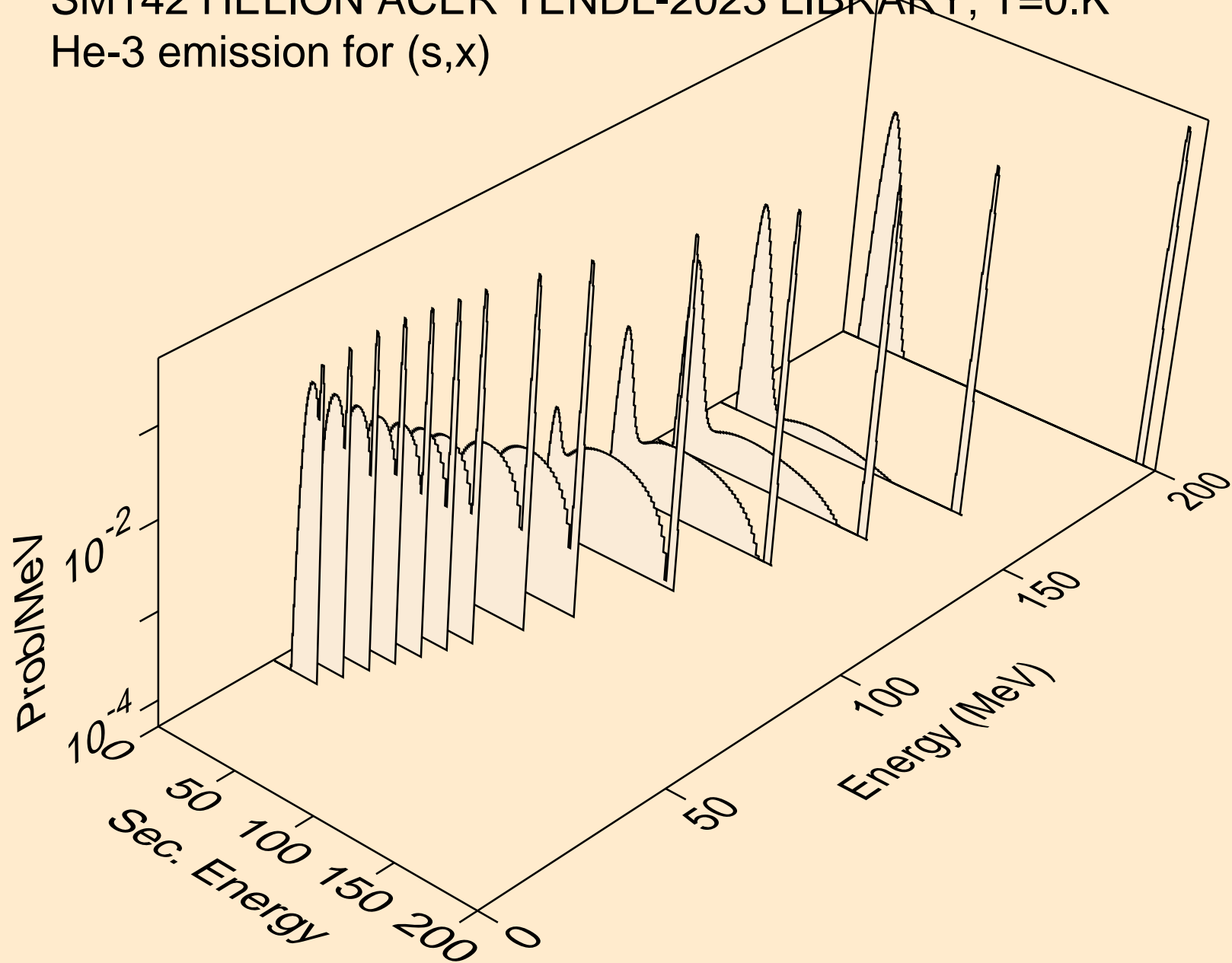
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



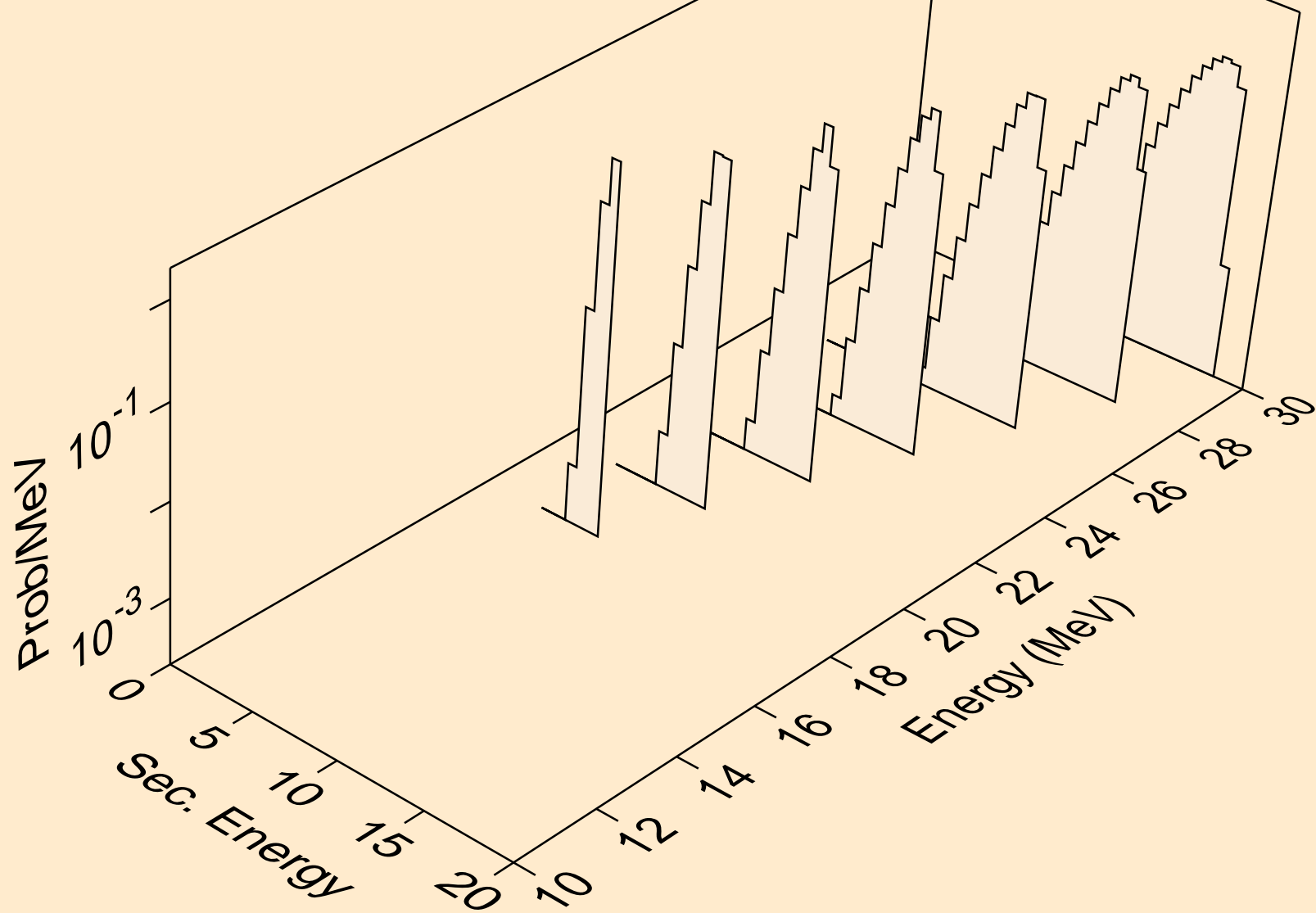
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



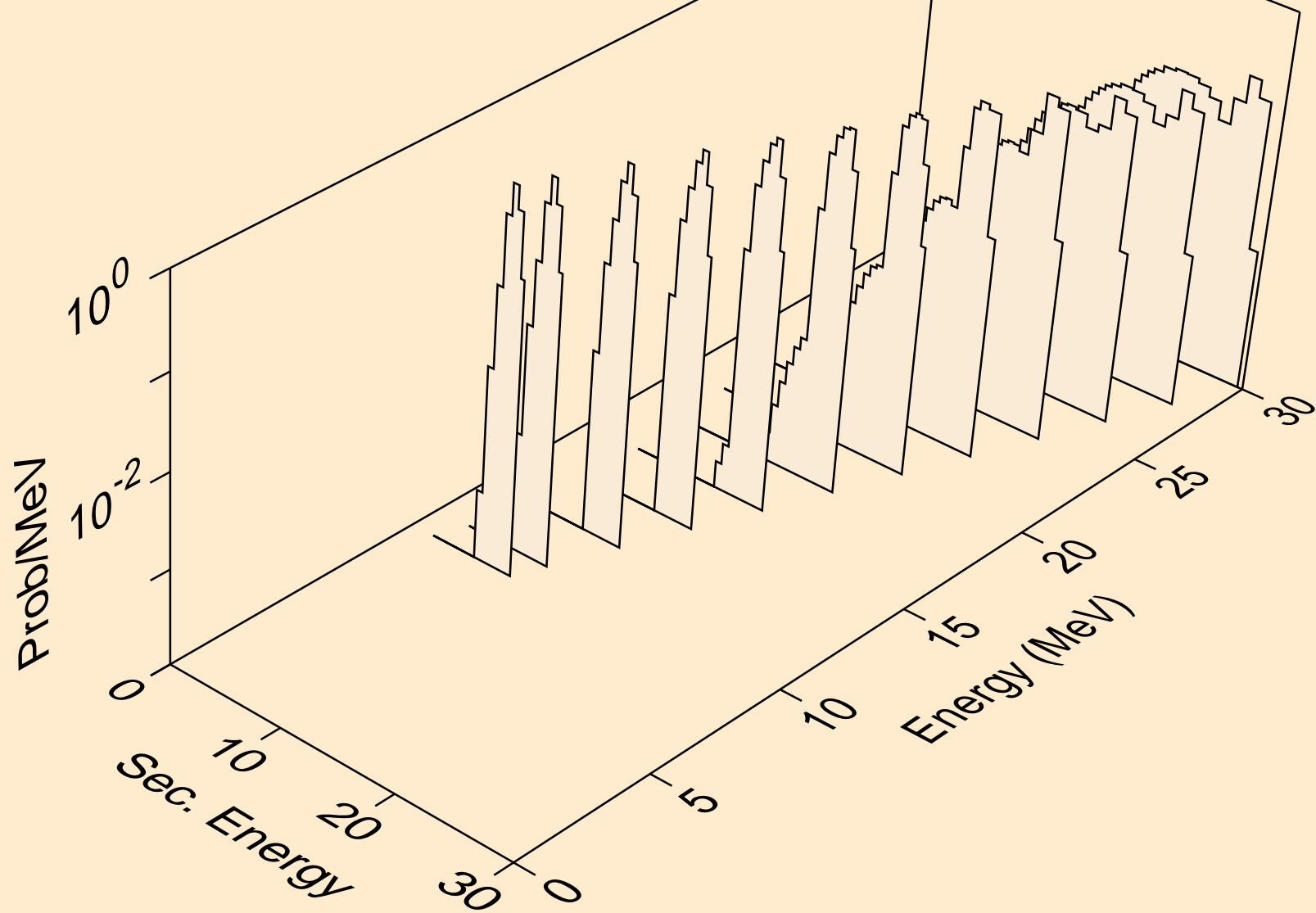
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,x)



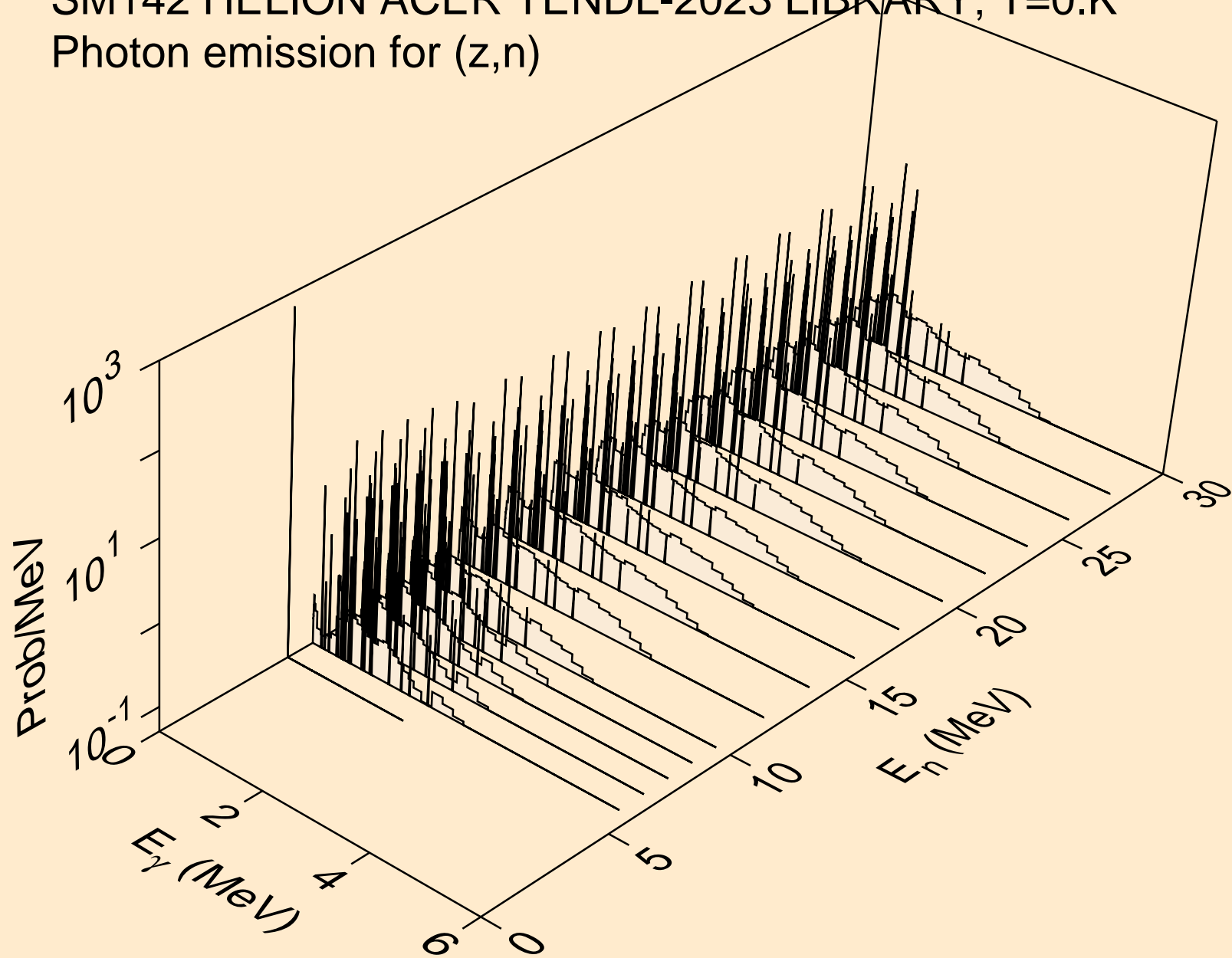
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3



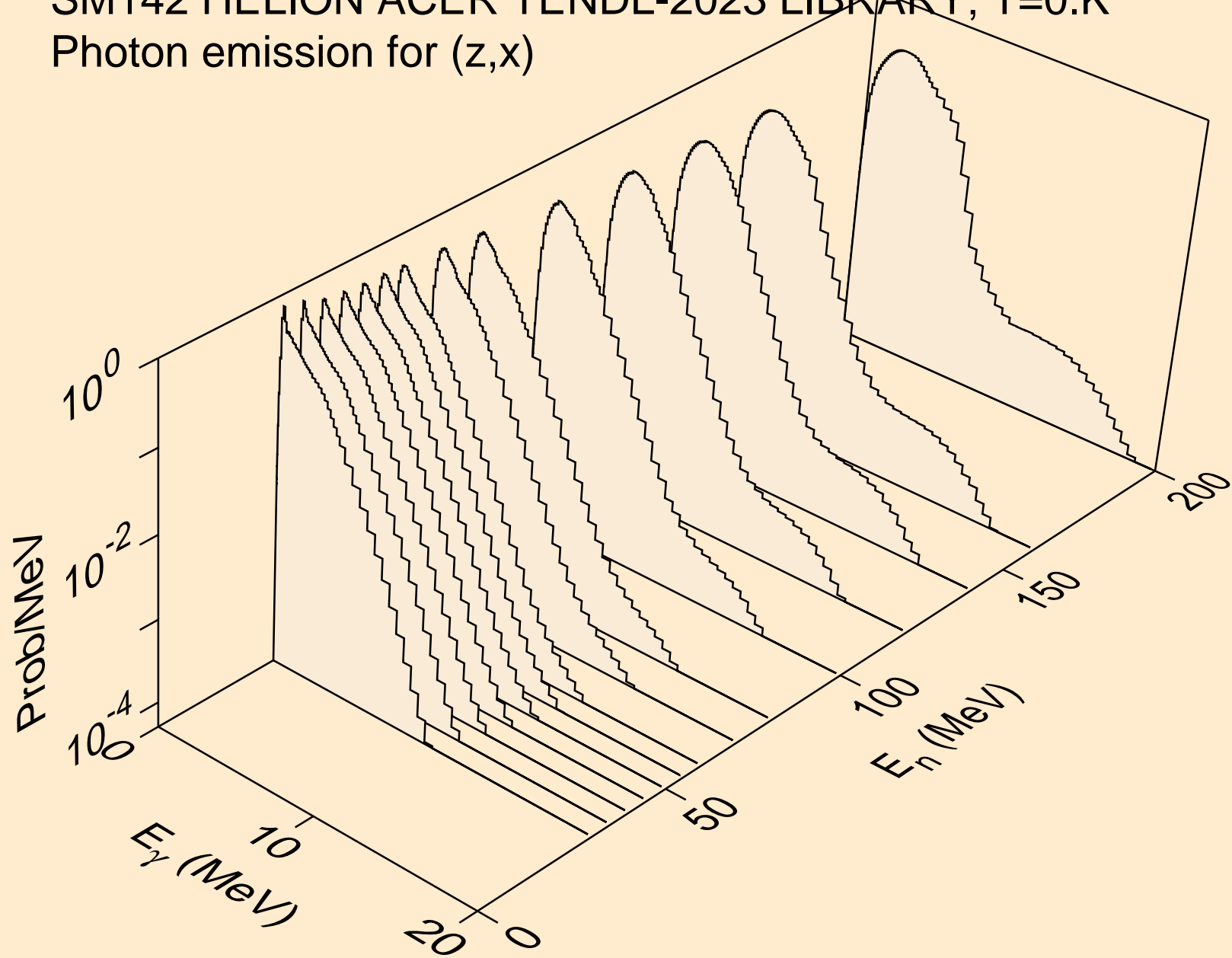
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for inelastic



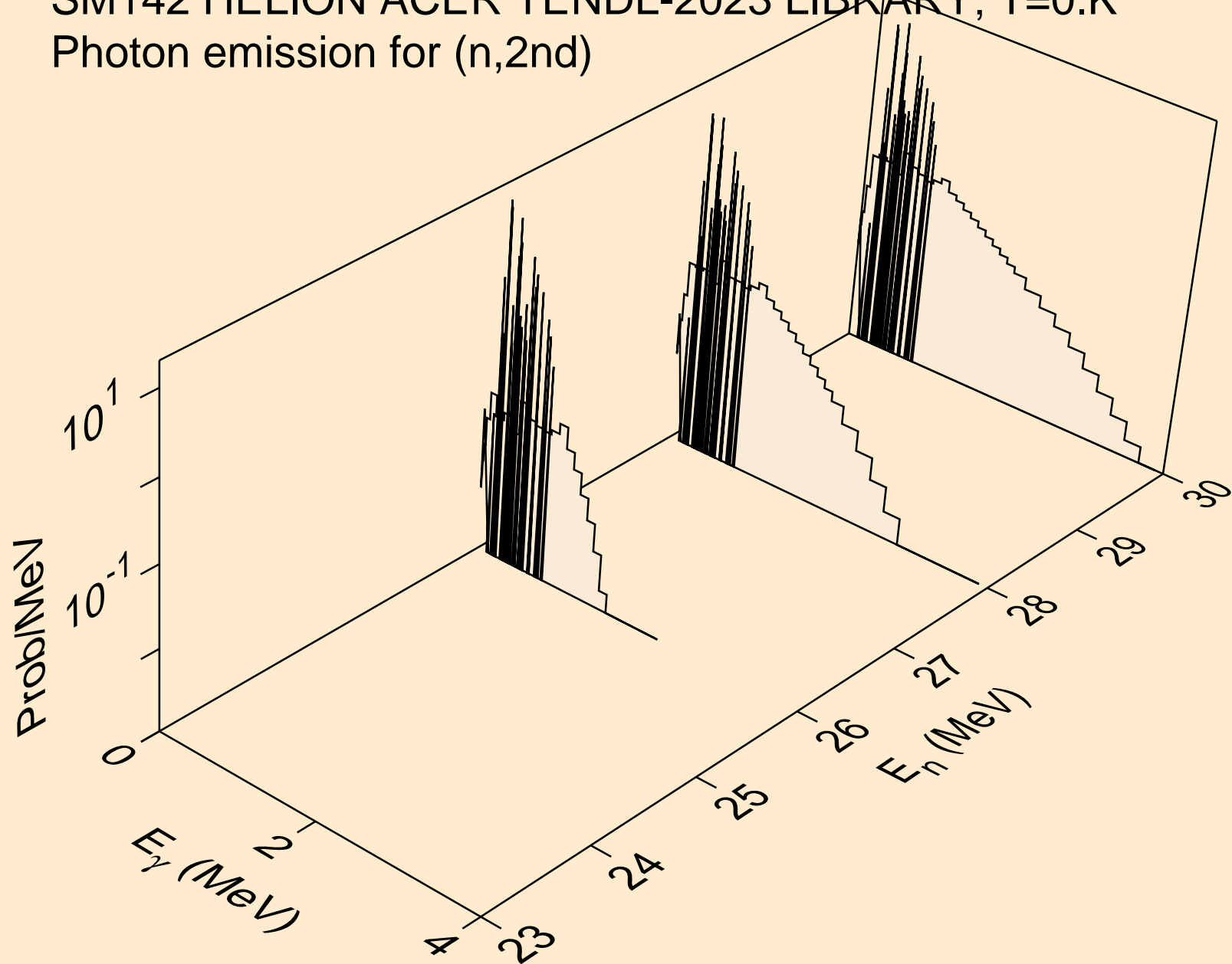
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



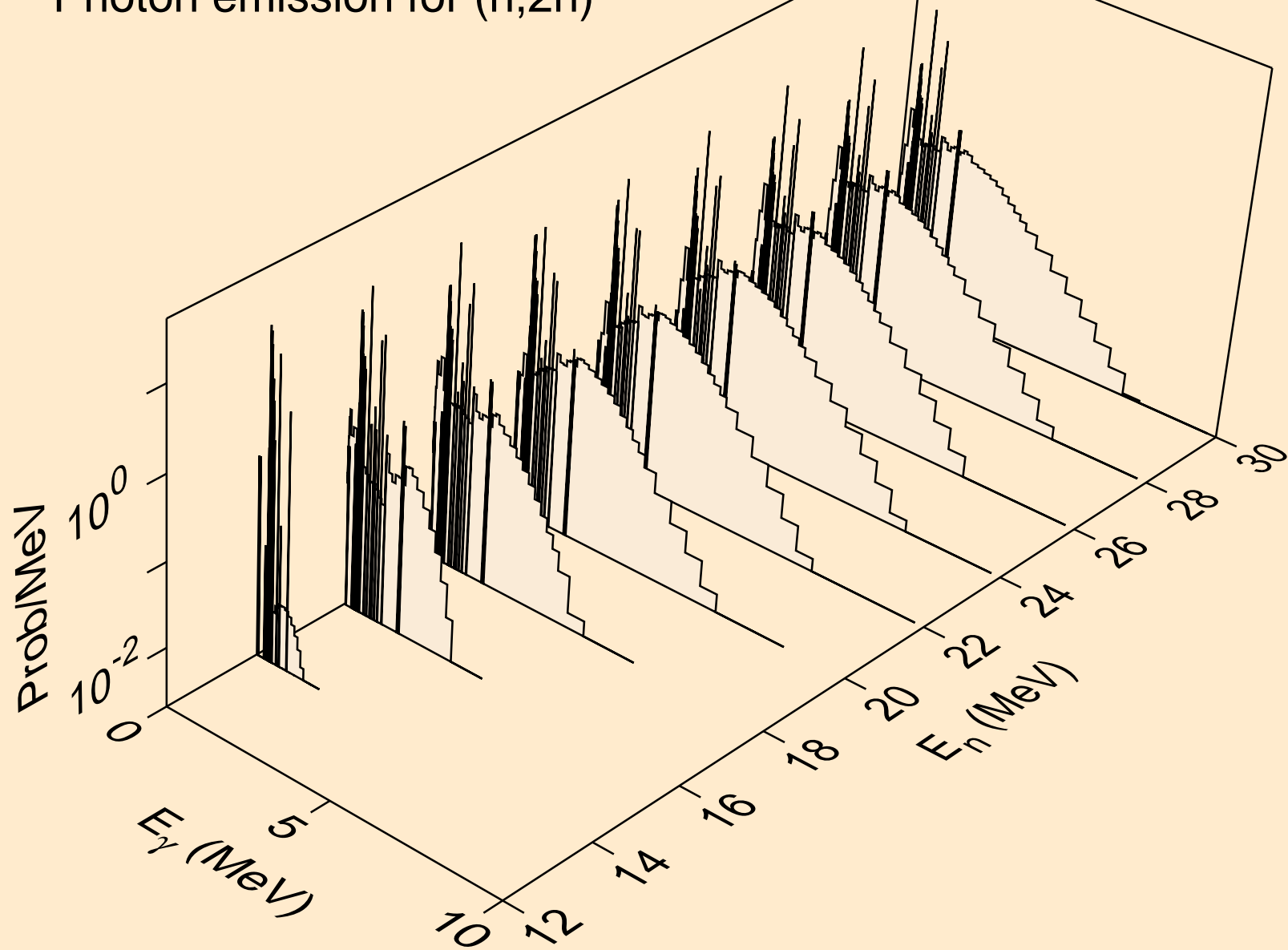
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



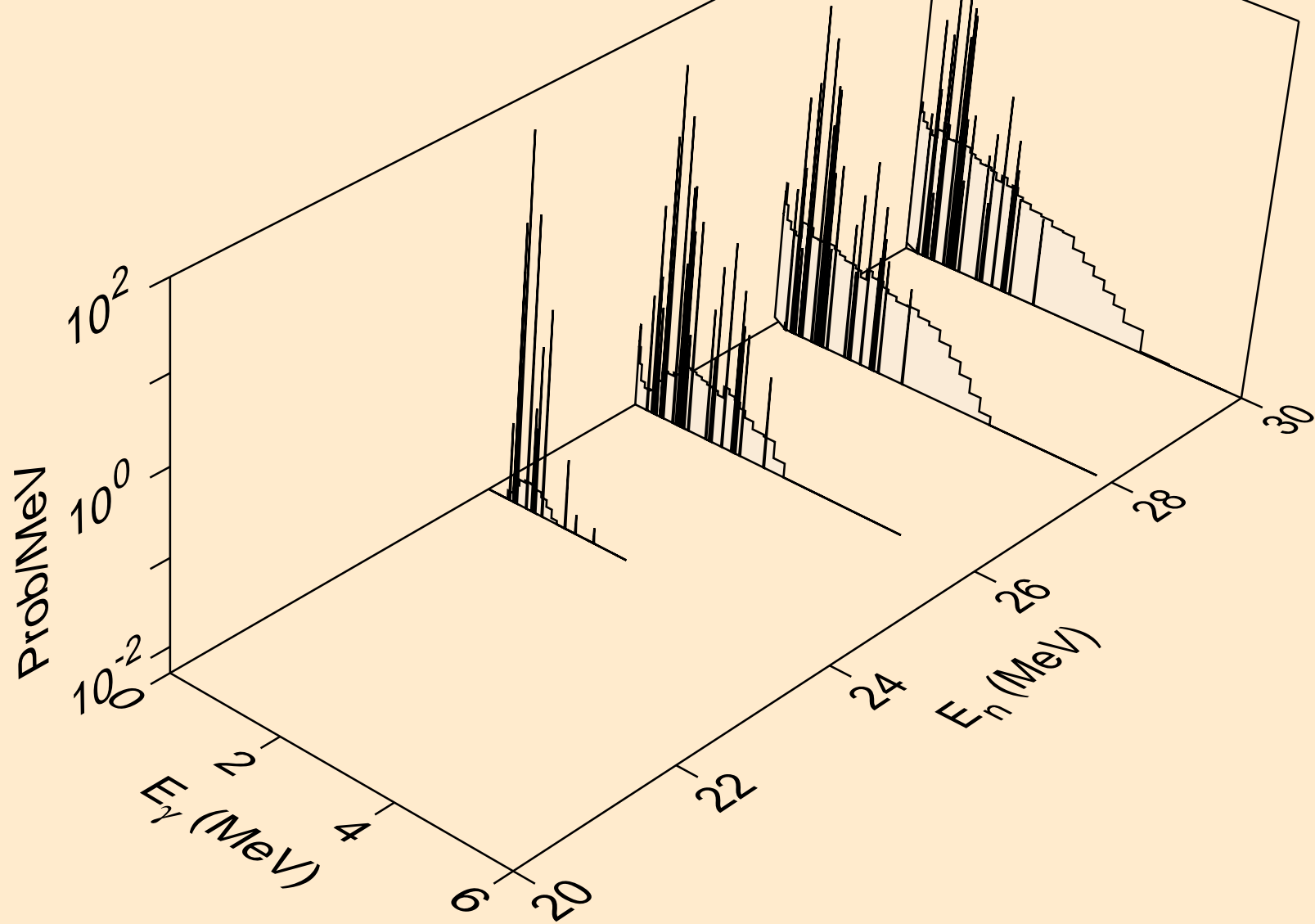
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



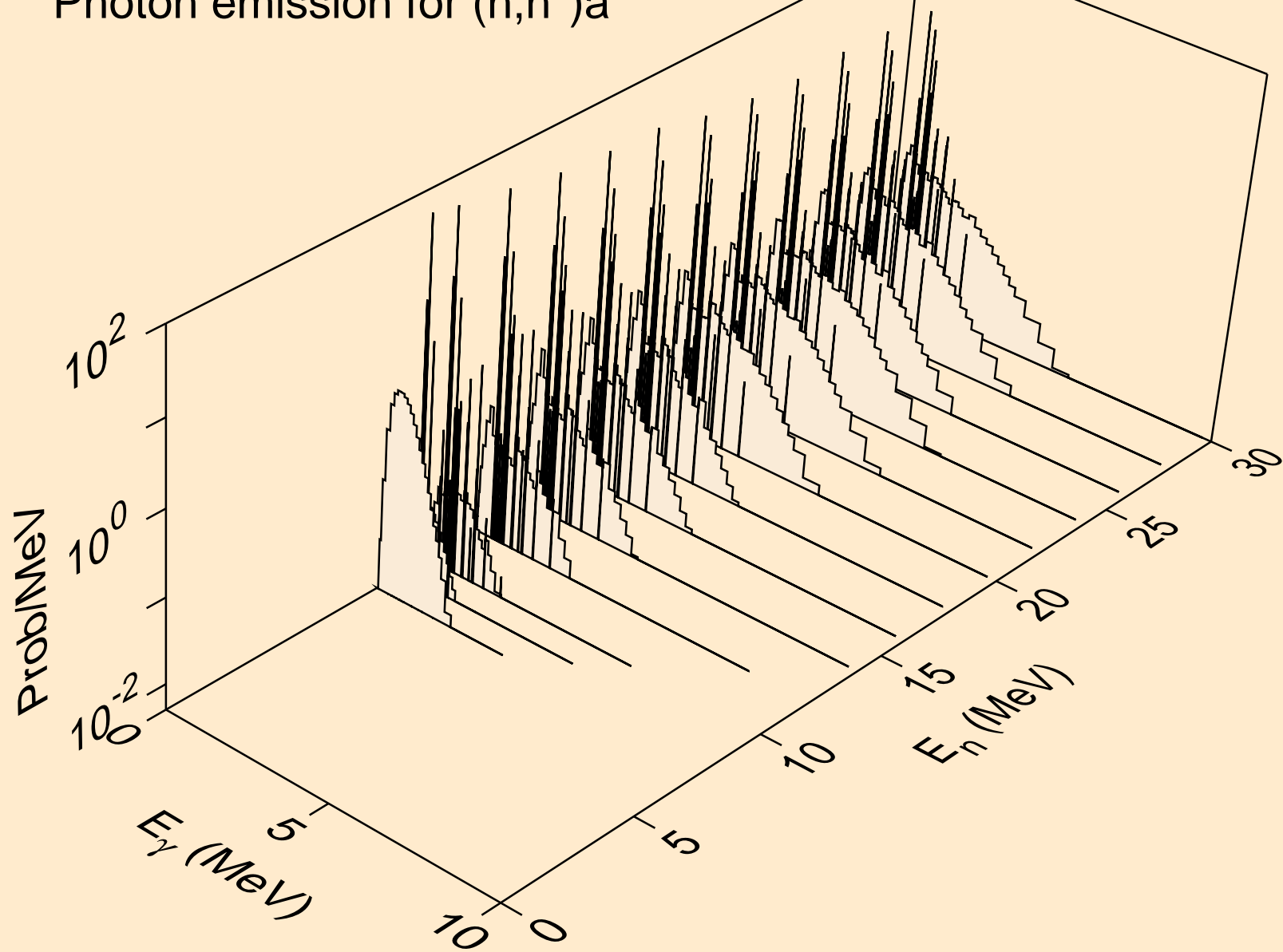
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Photon emission for (n,2n)



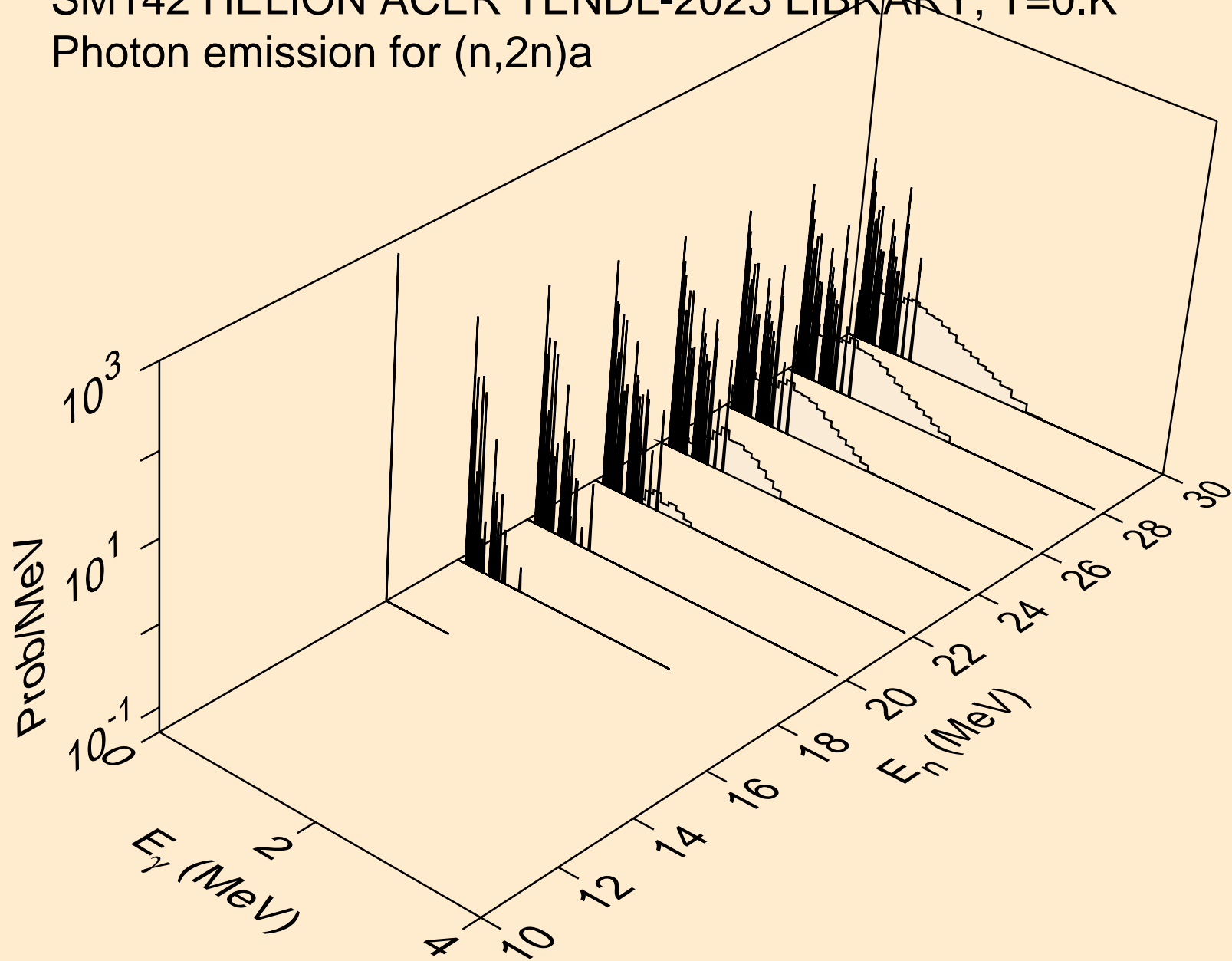
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



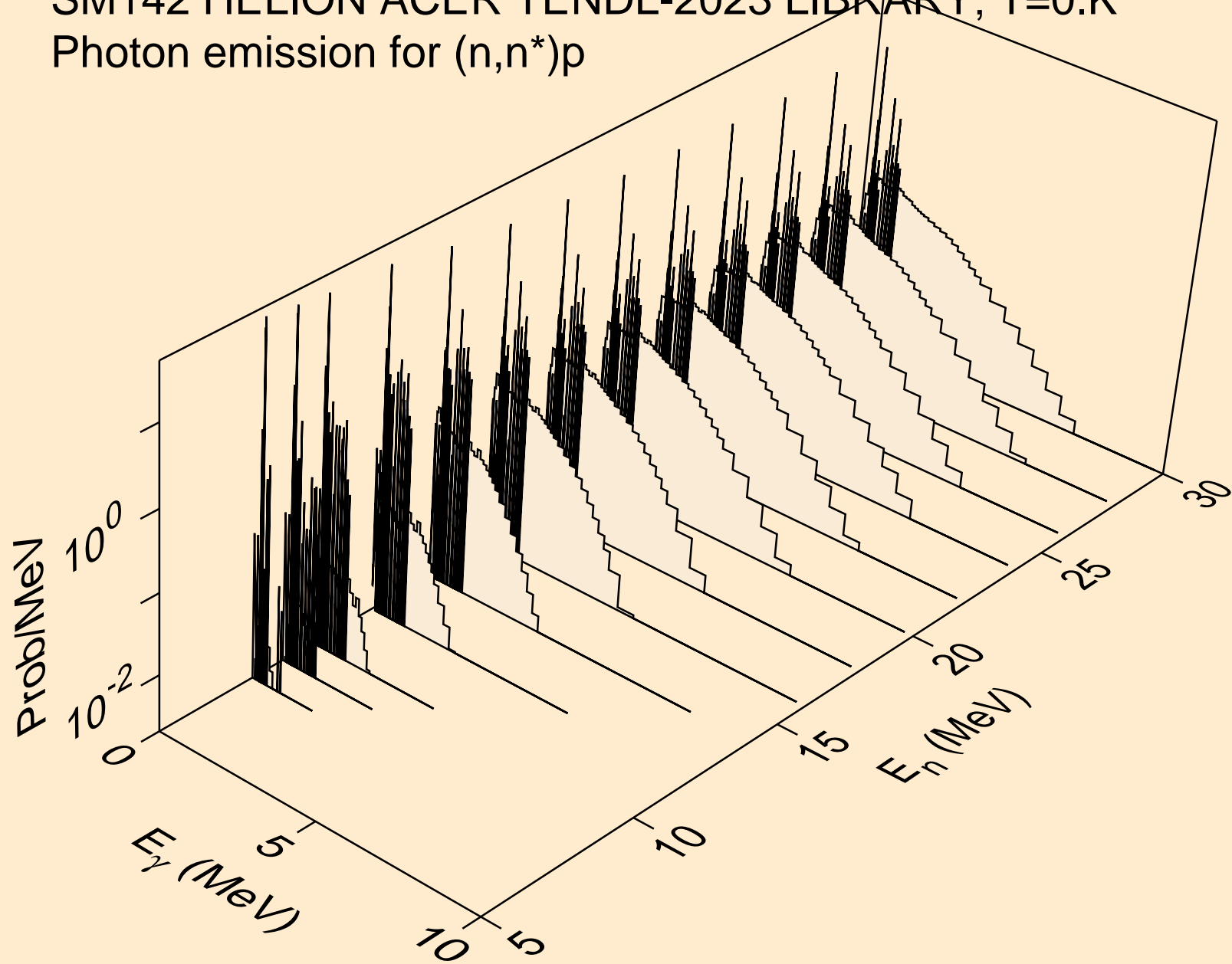
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



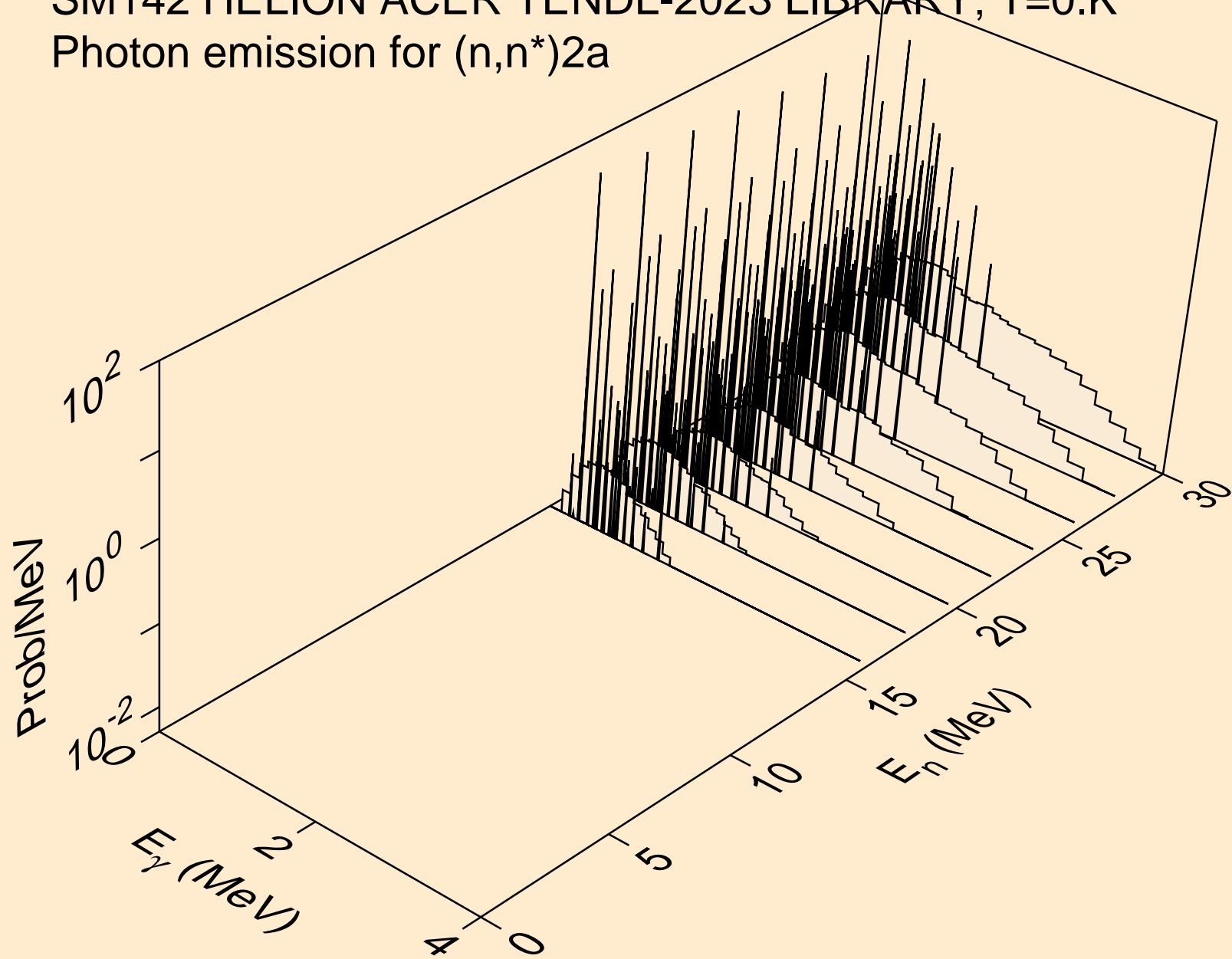
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



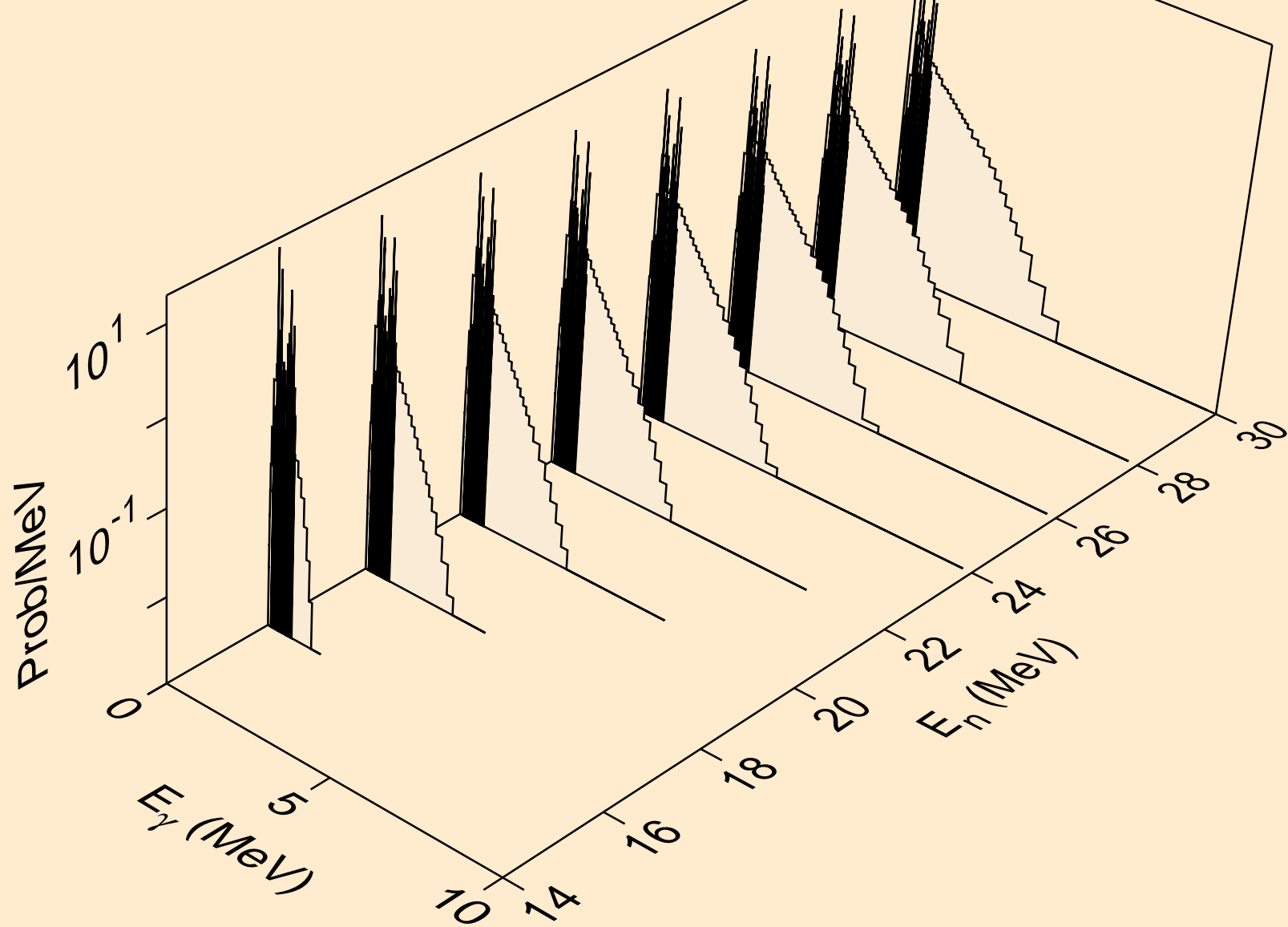
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



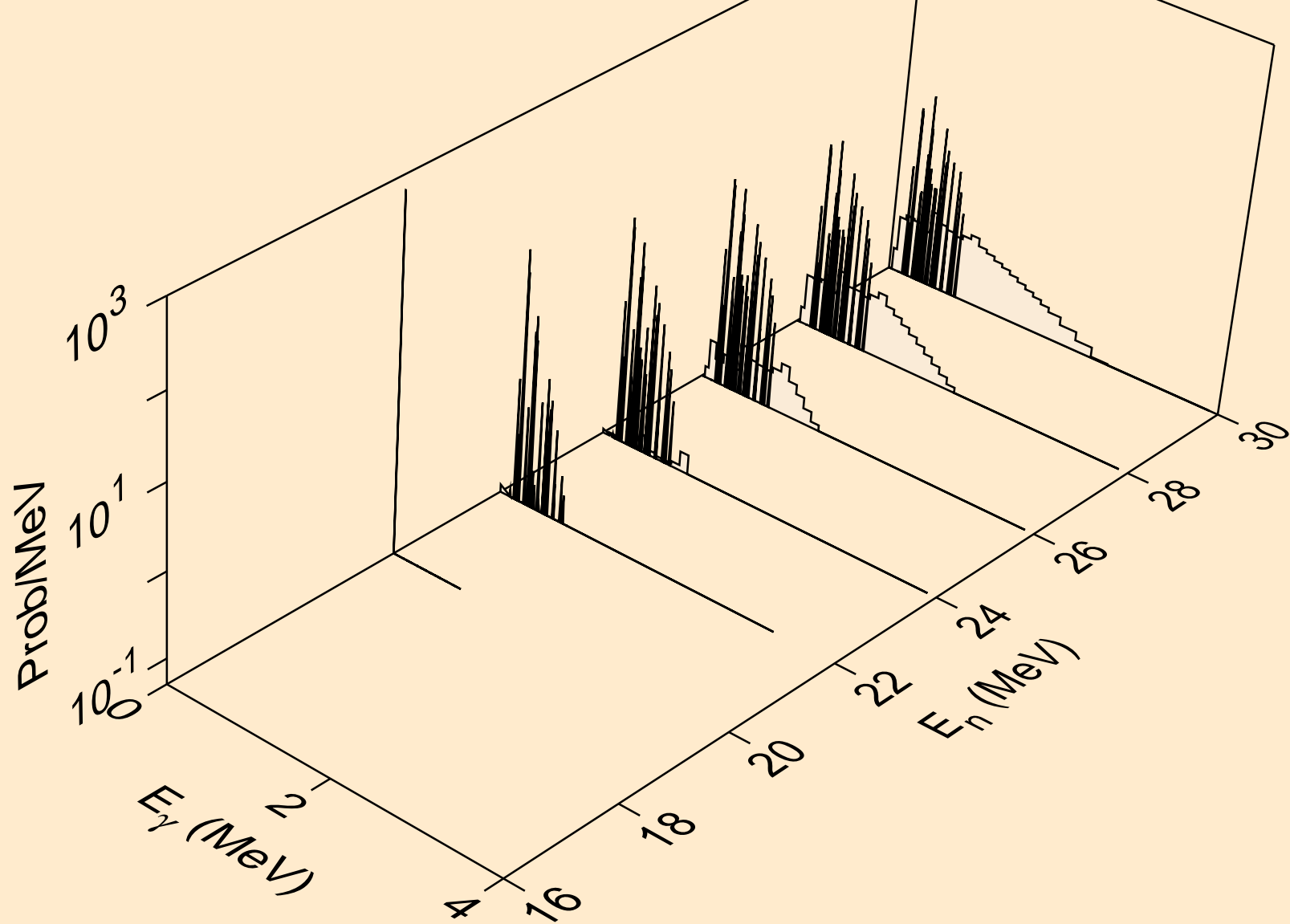
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Photon emission for (n,n\*)2a



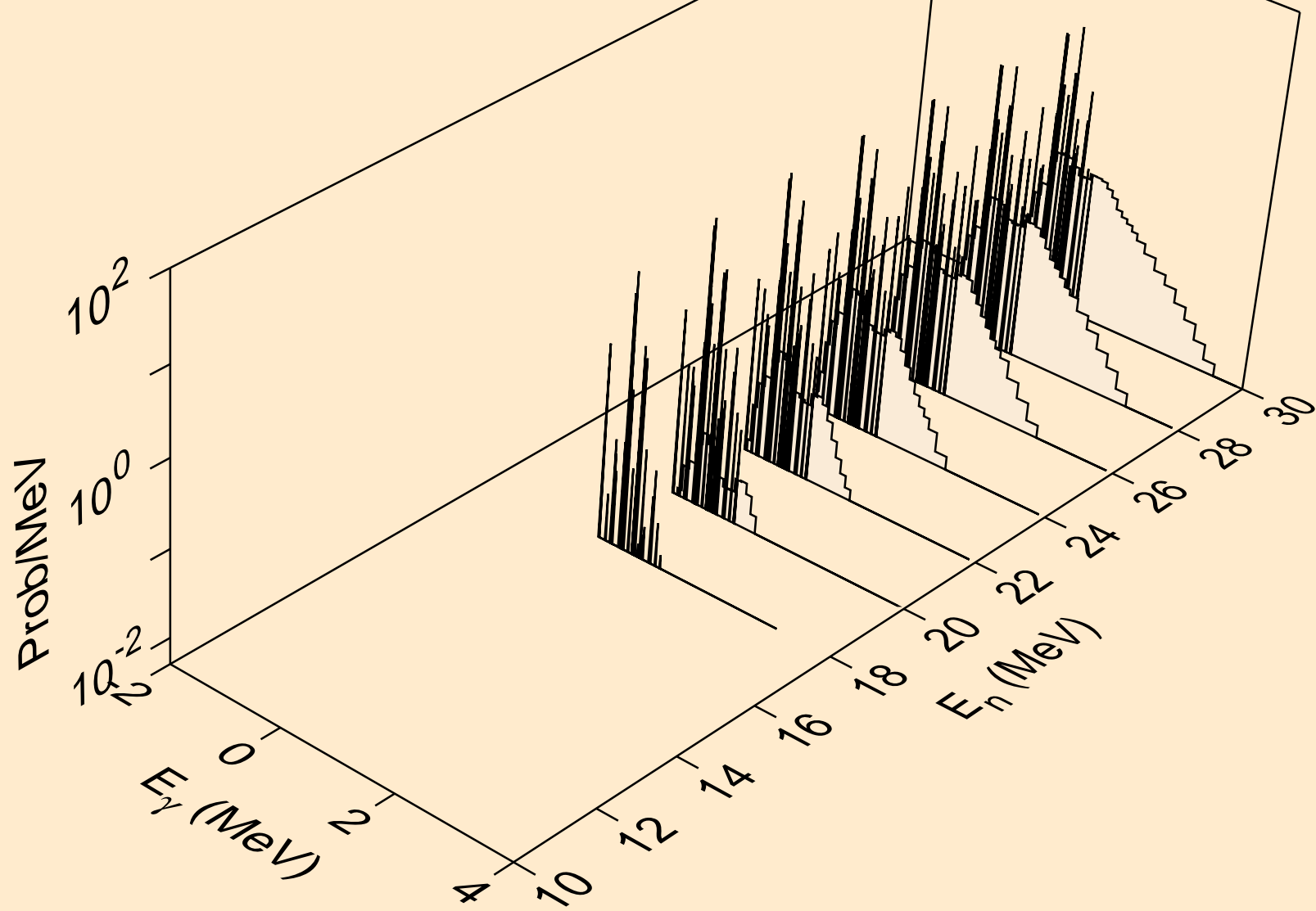
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



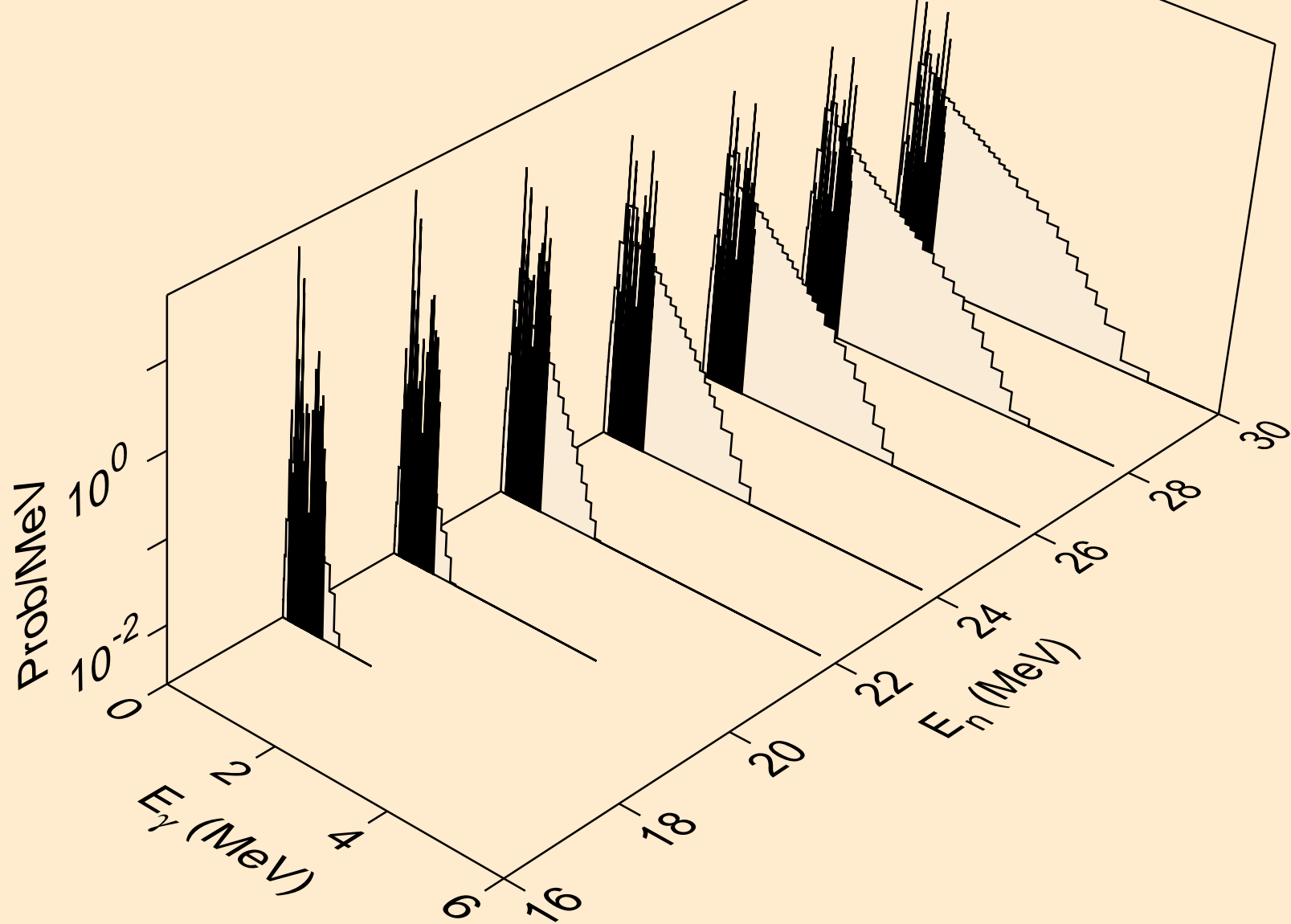
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



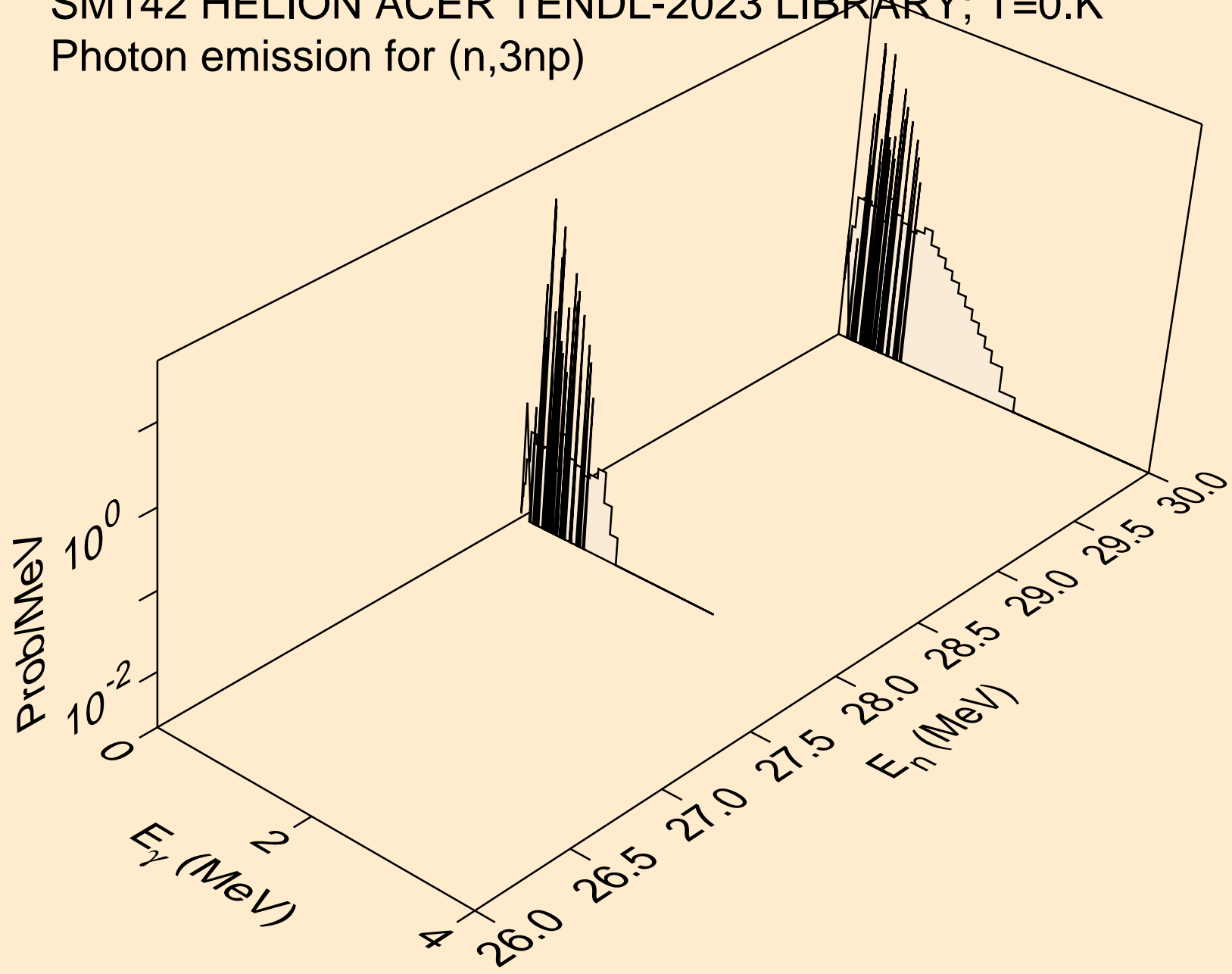
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



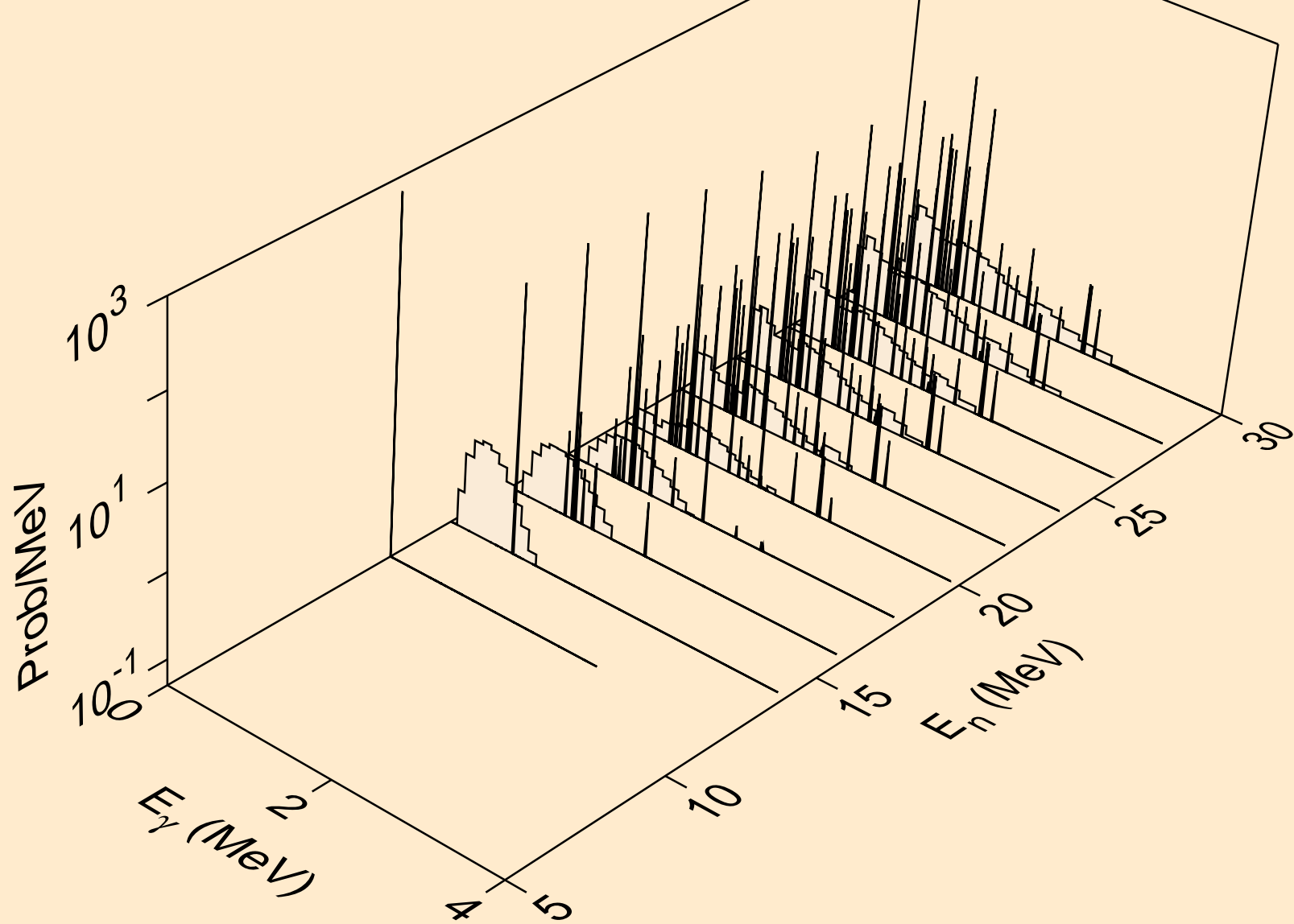
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Photon emission for (n,2np)



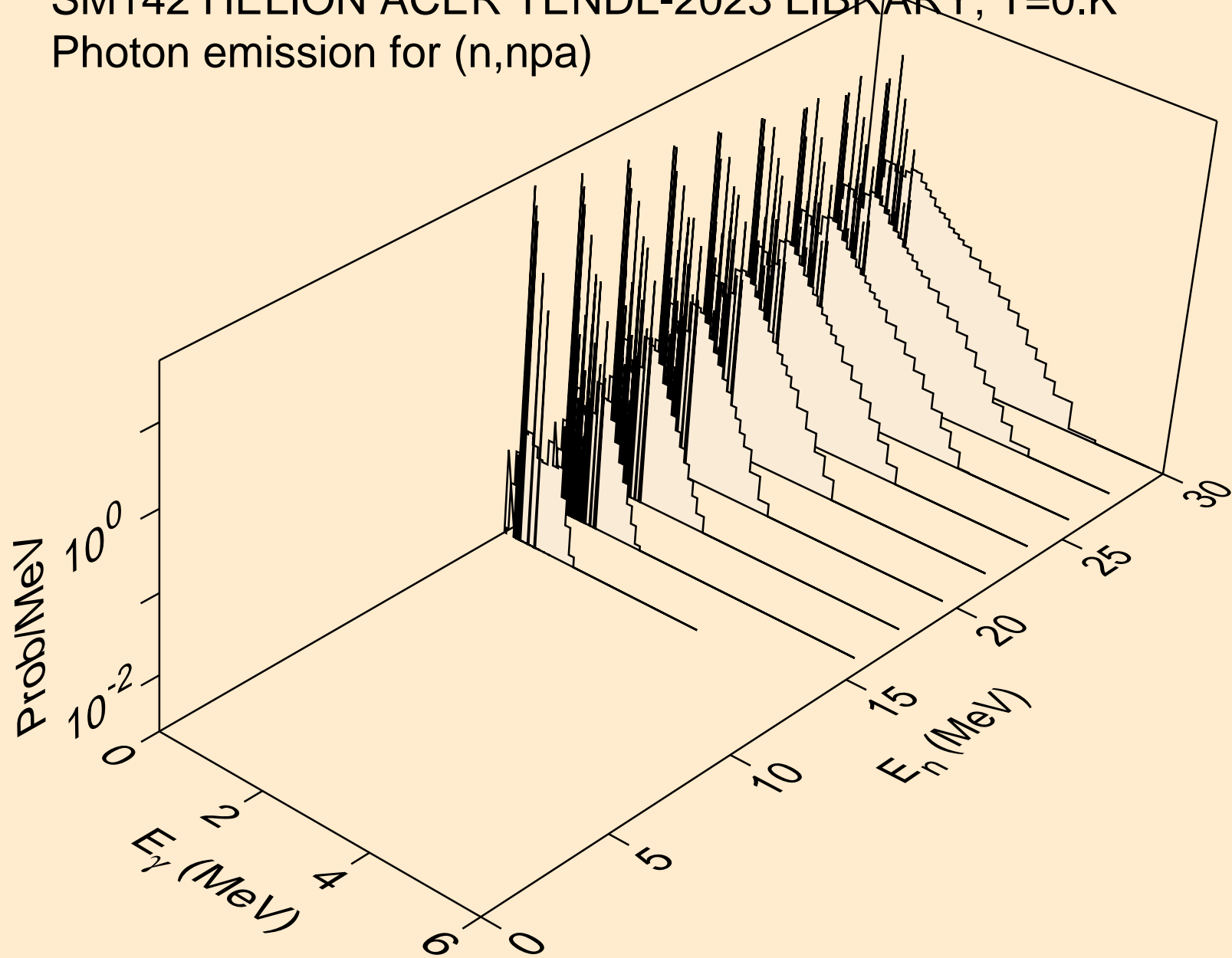
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Photon emission for (n,3np)



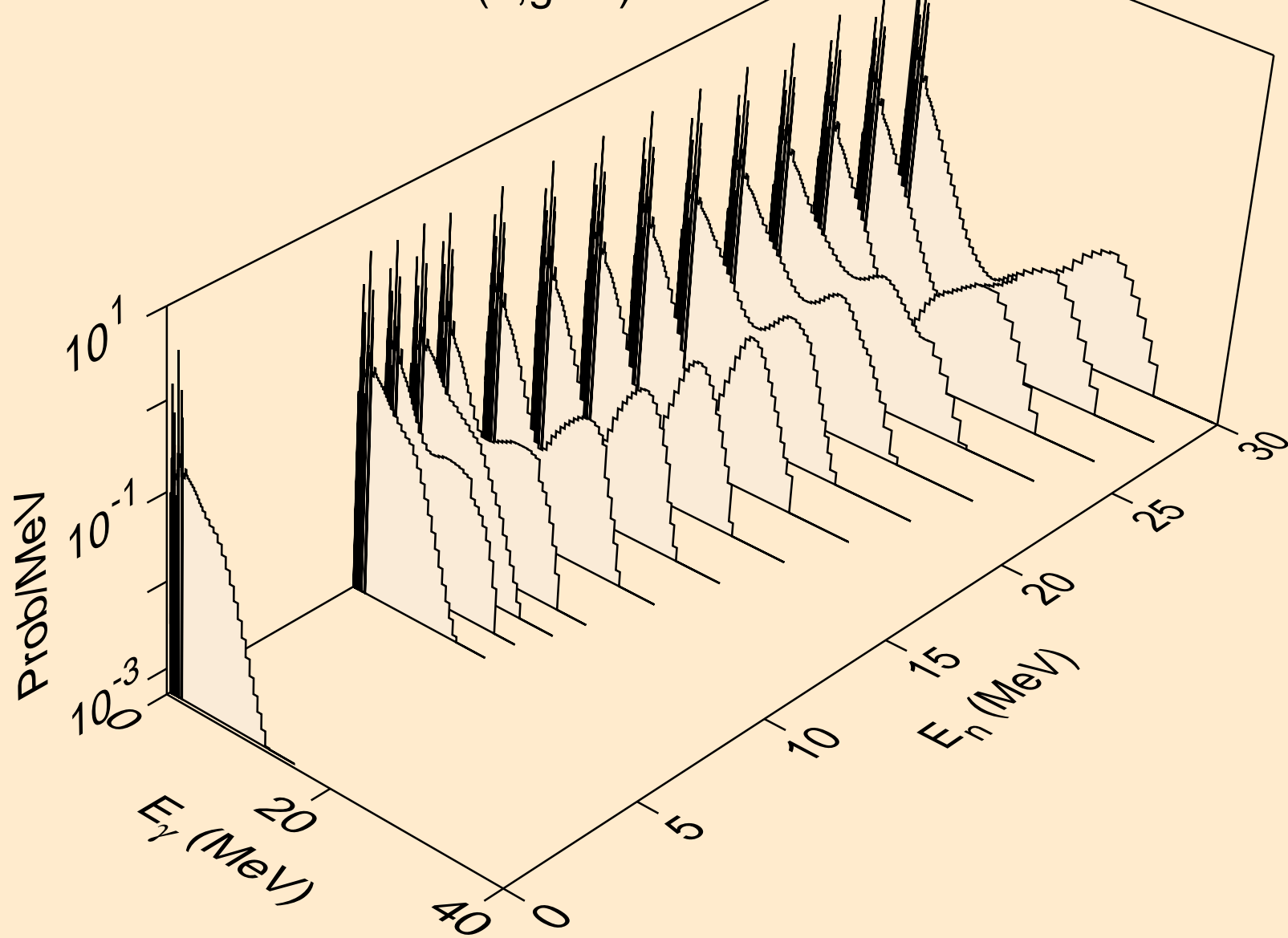
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Photon emission for (n,n2p)



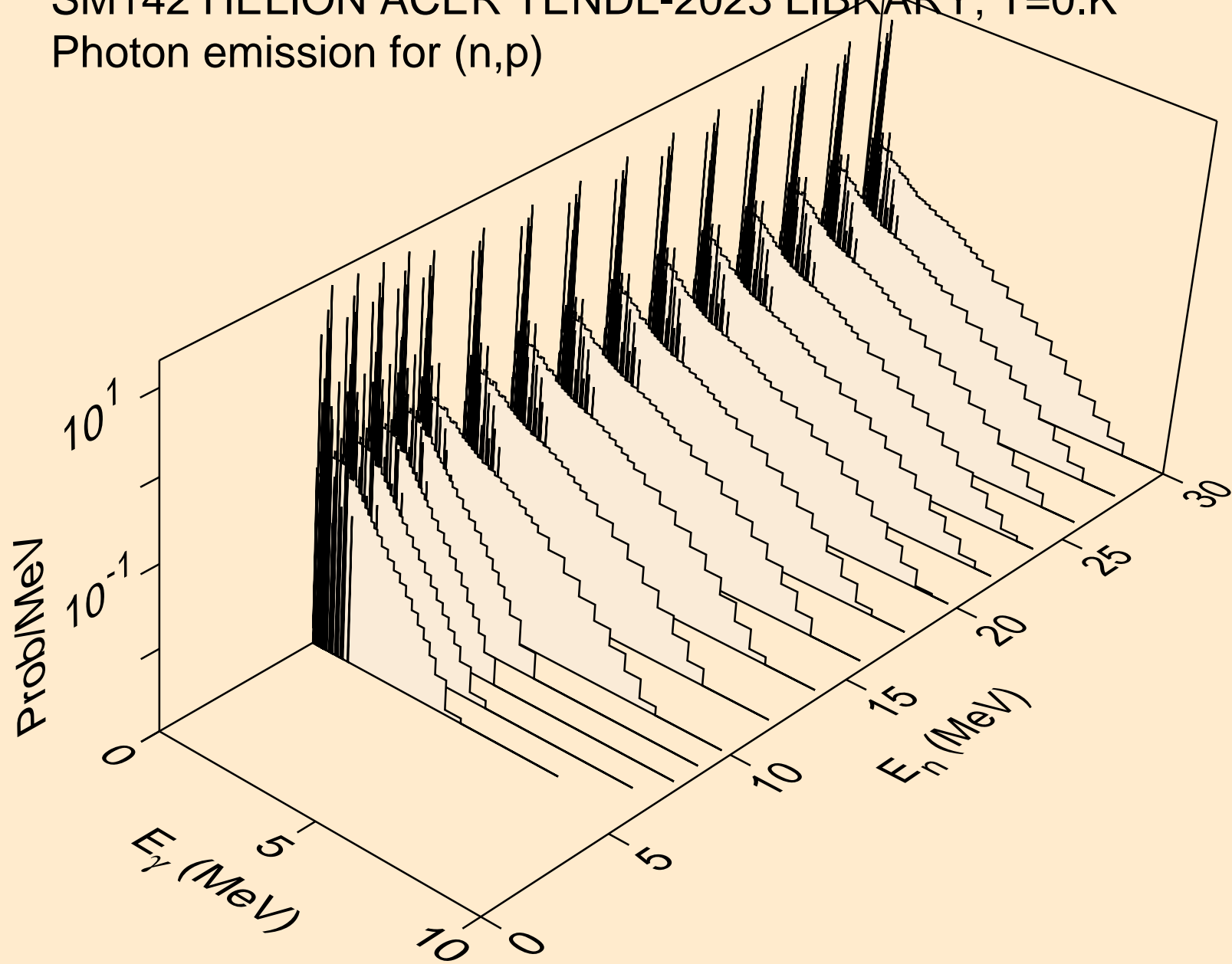
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Photon emission for (n,npa)



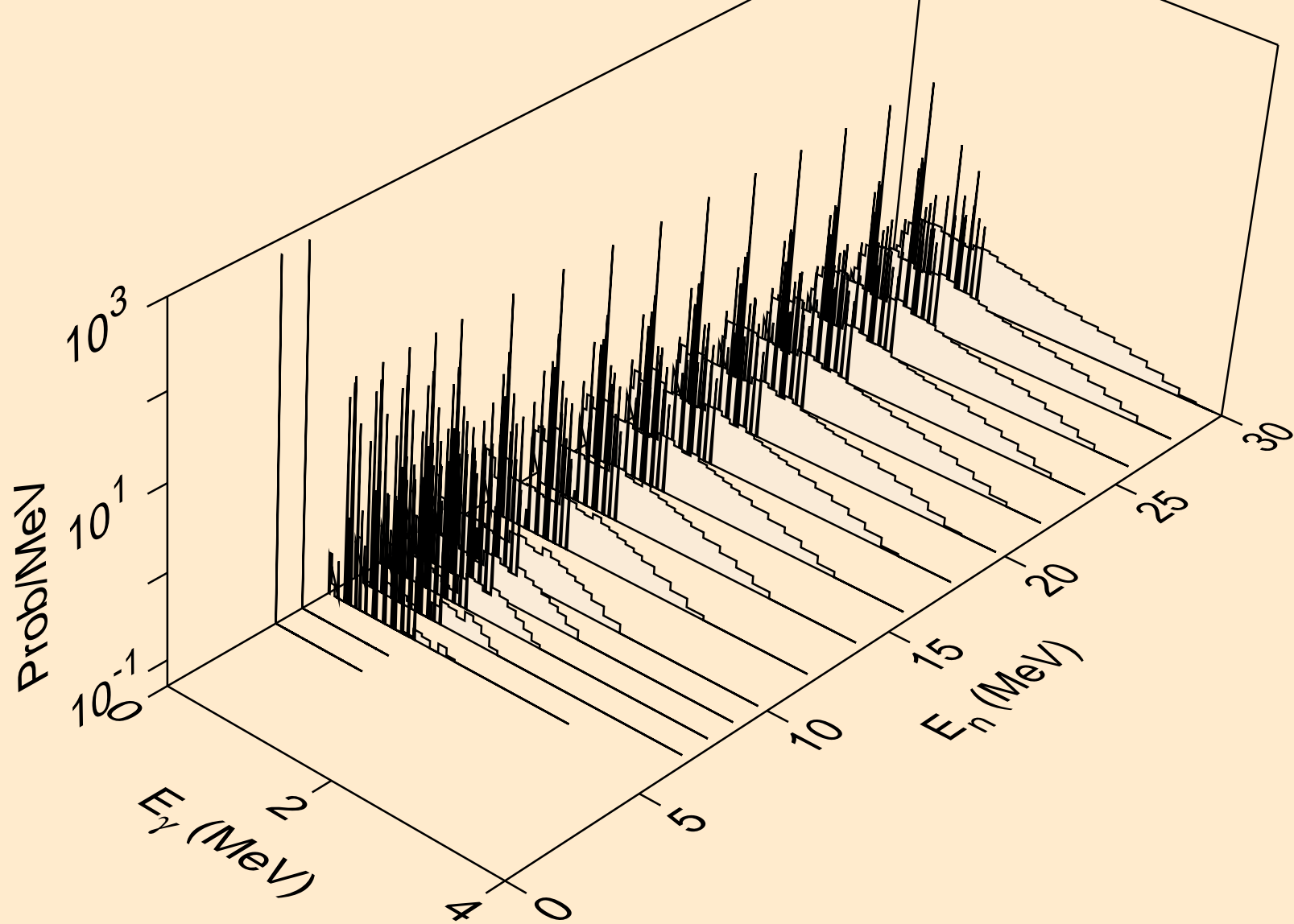
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Photon emission for (n,gma)



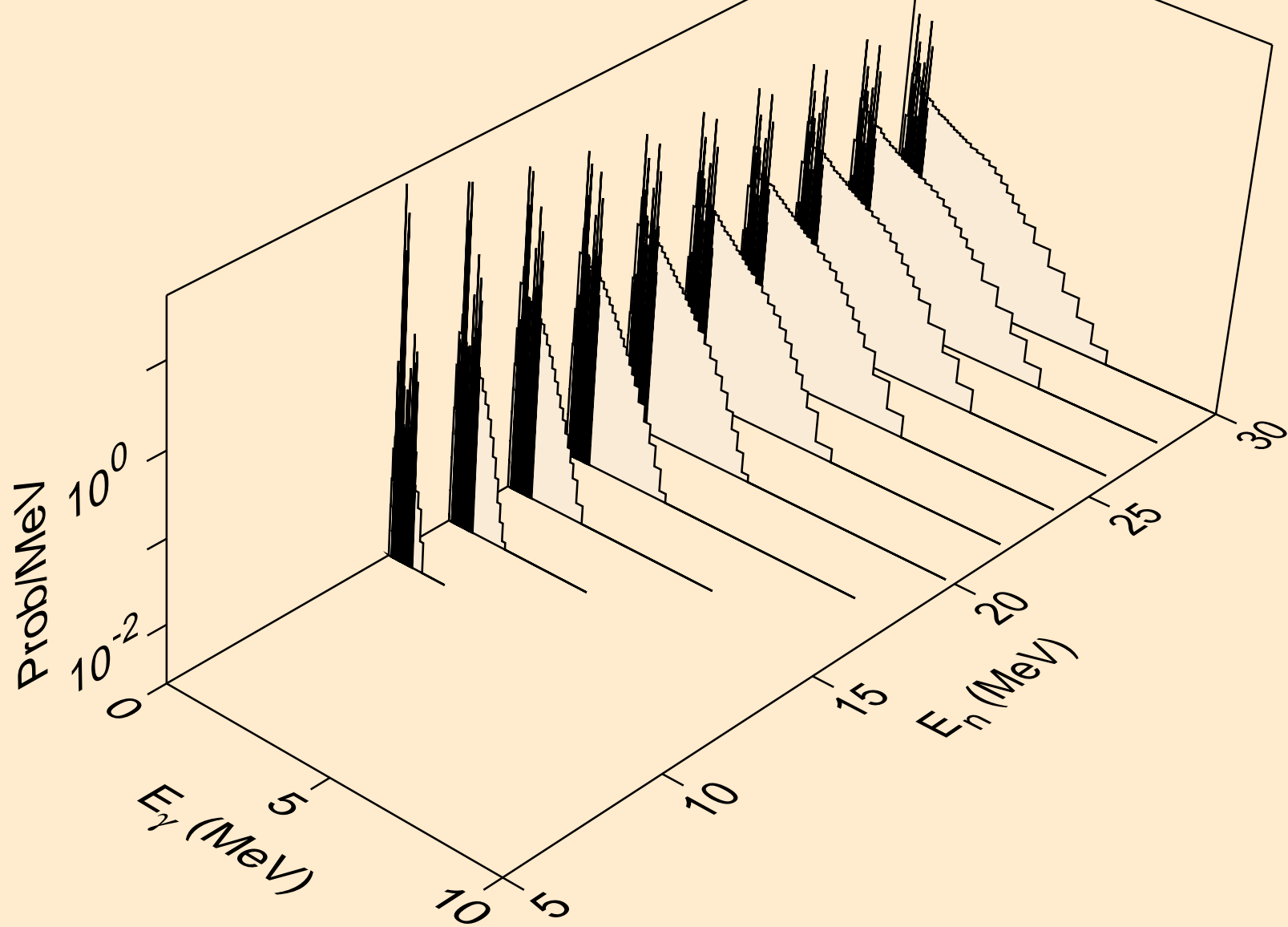
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Photon emission for (n,p)



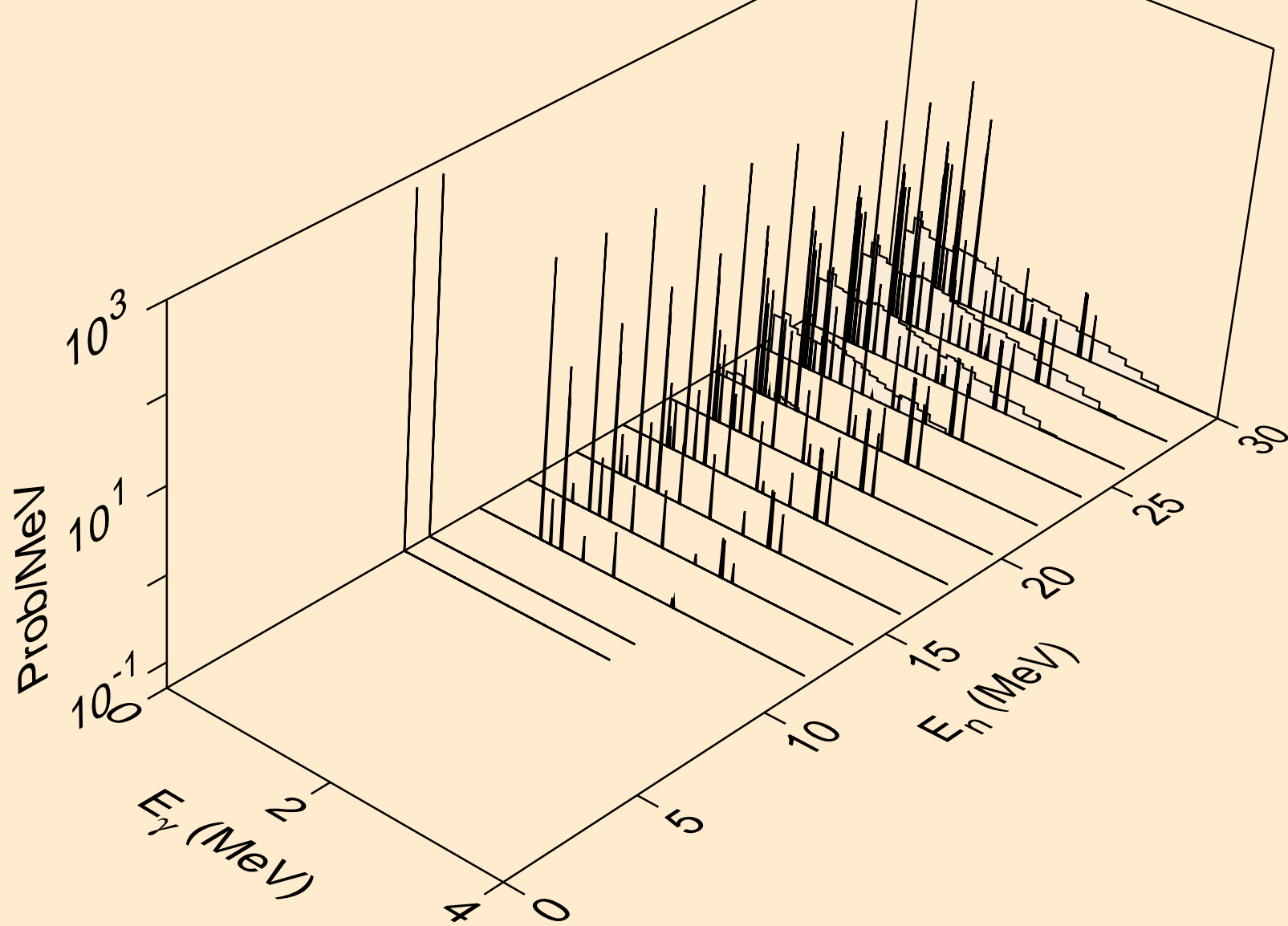
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Photon emission for (n,d)



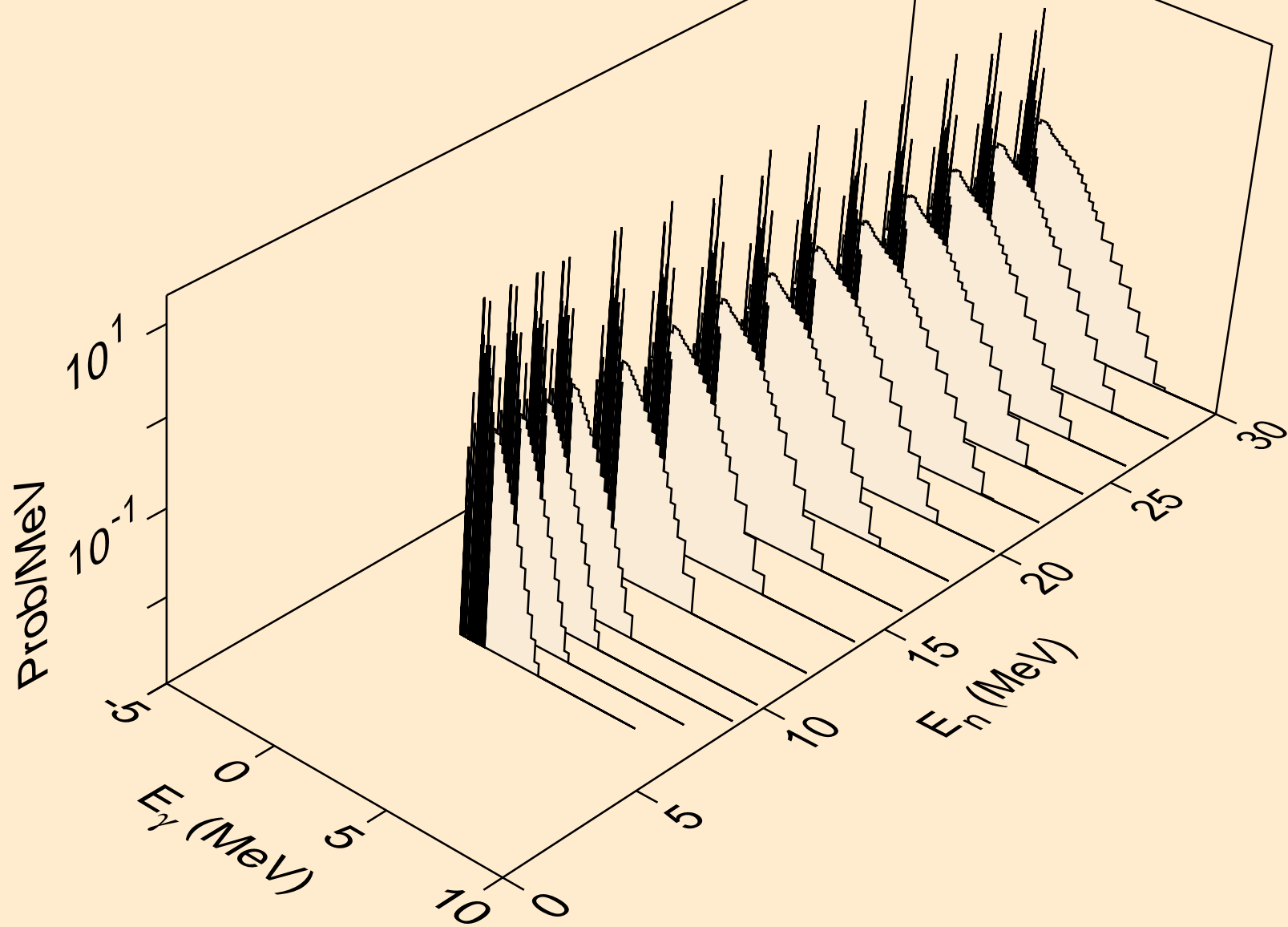
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Photon emission for (n,t)



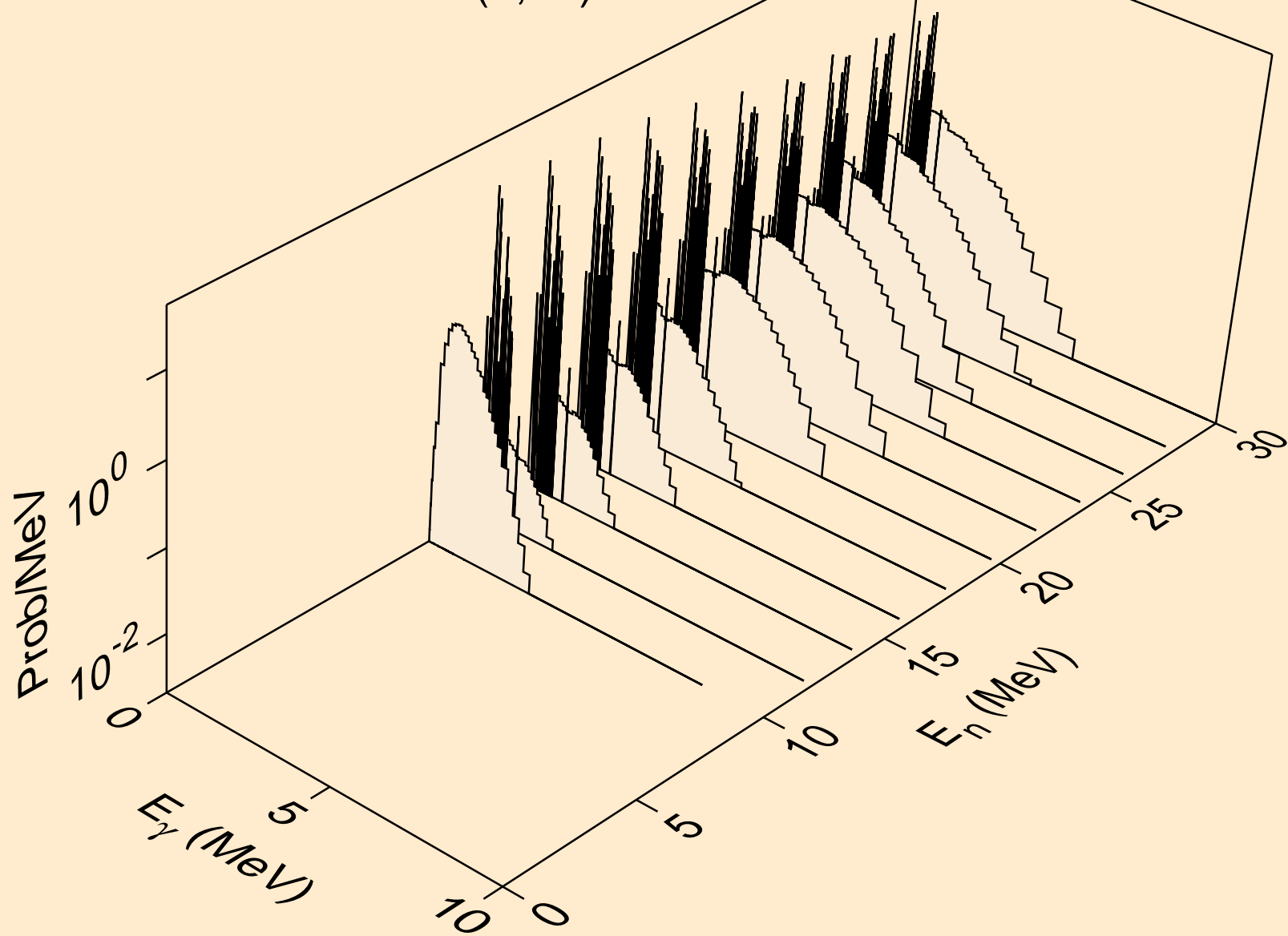
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



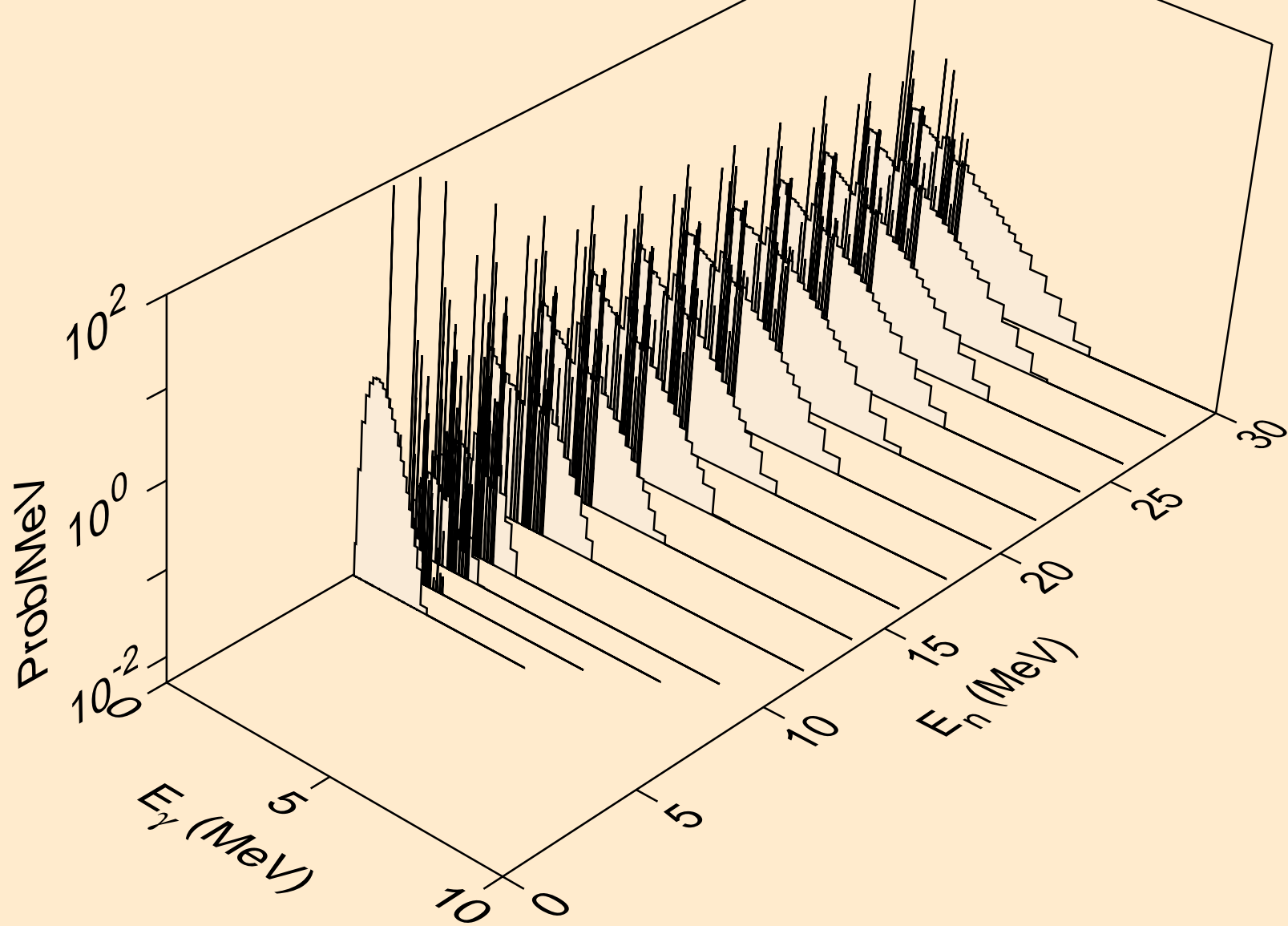
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Photon emission for (n,a)



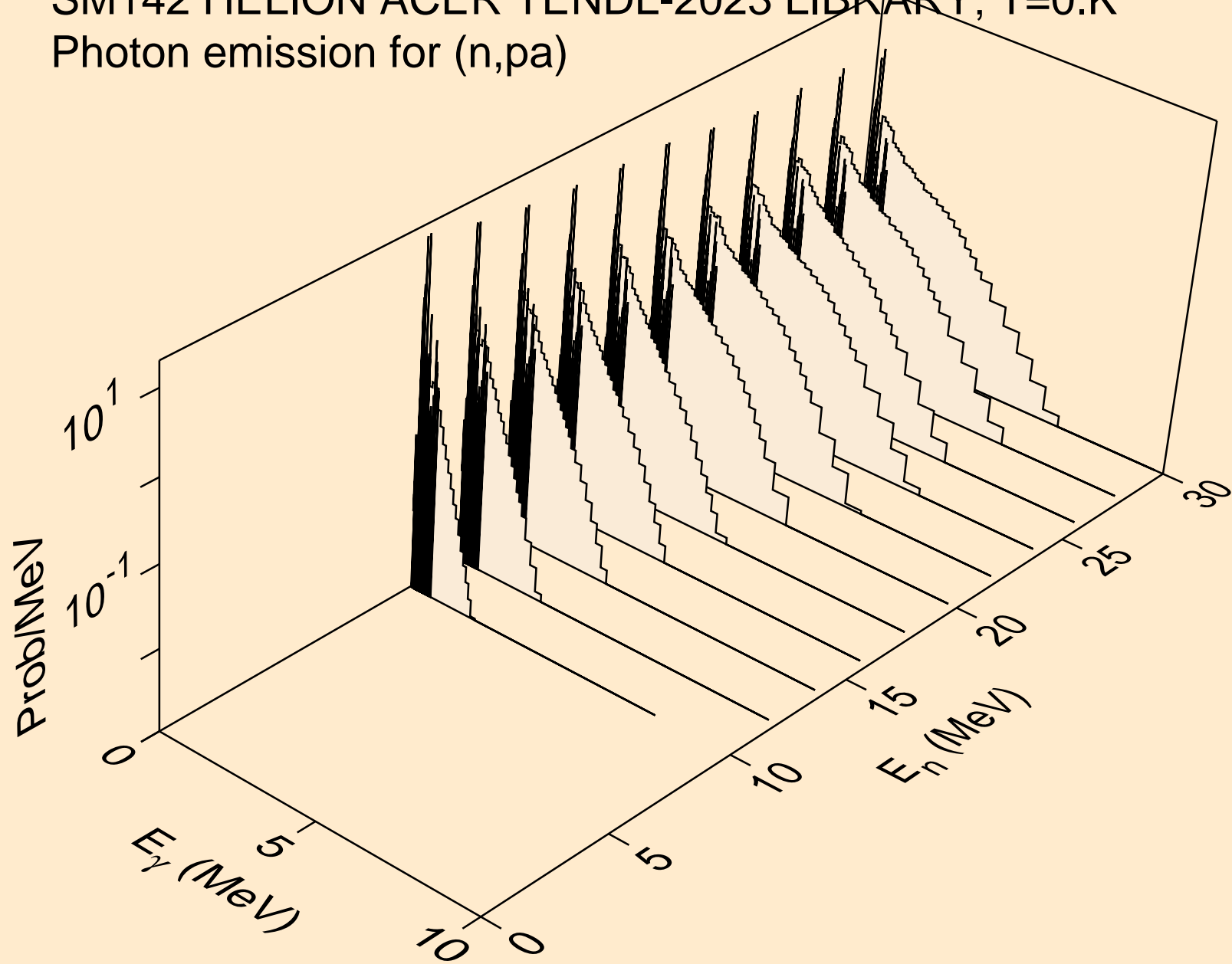
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Photon emission for (n,2a)



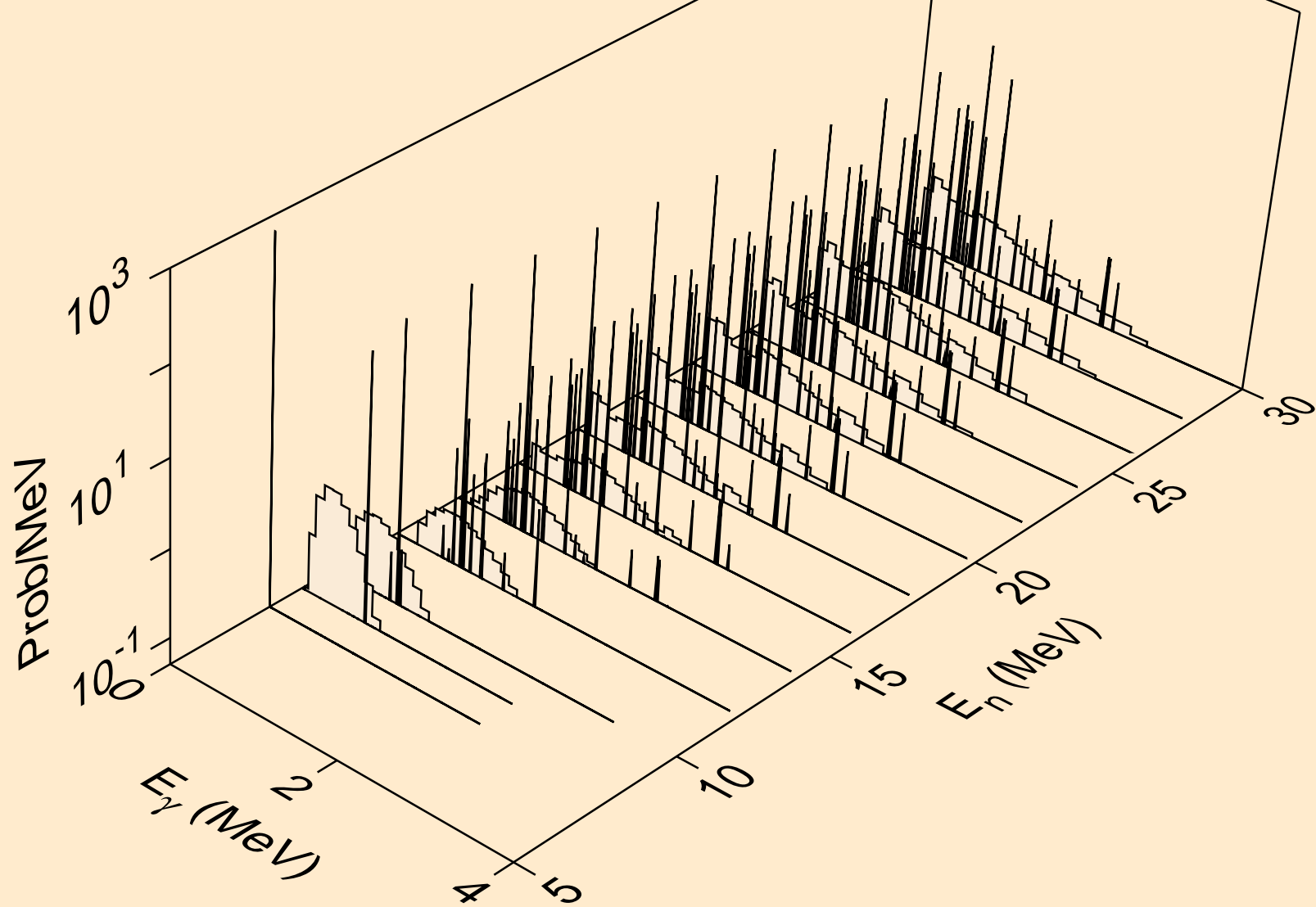
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Photon emission for (n,2p)



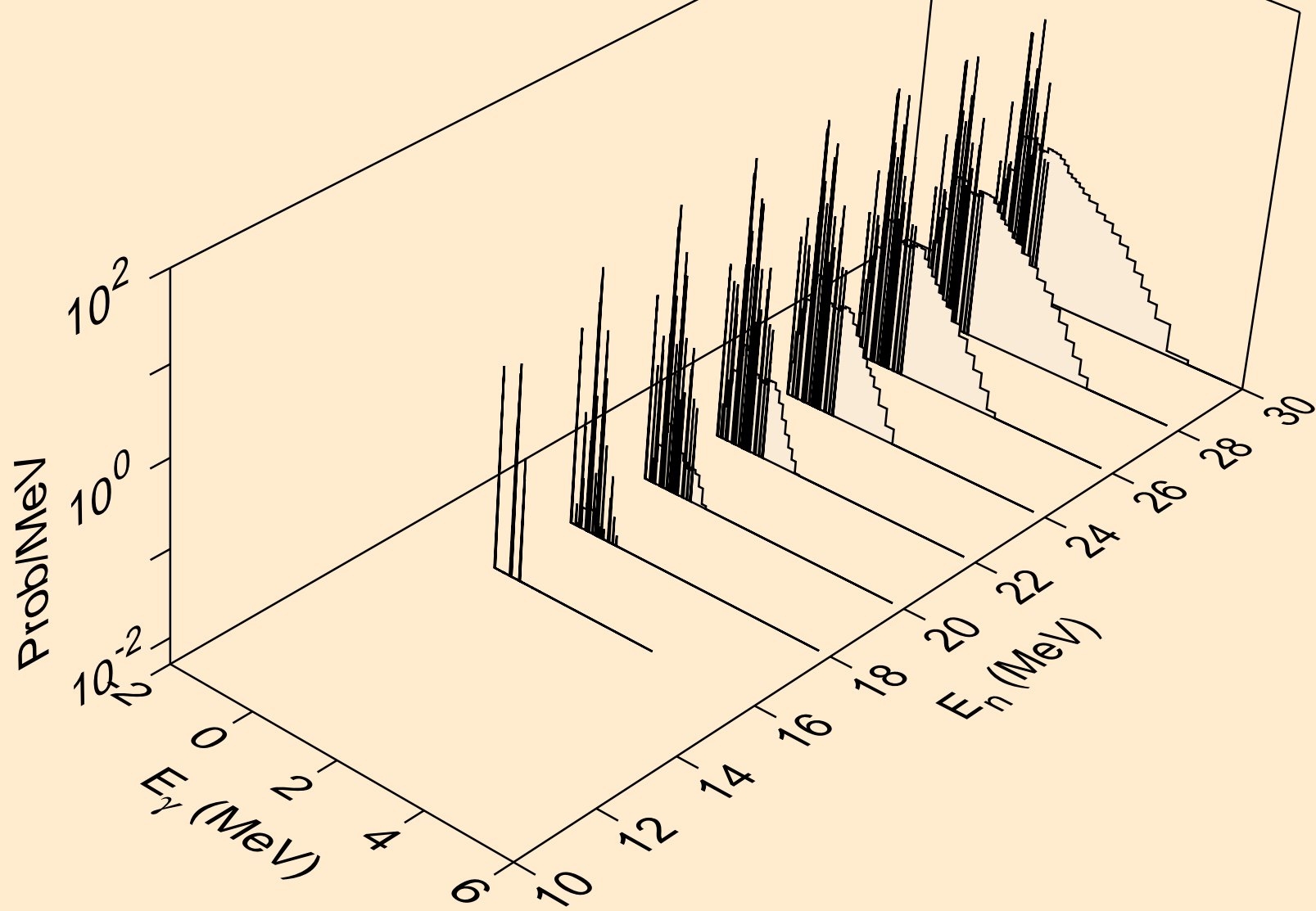
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Photon emission for (n,pa)



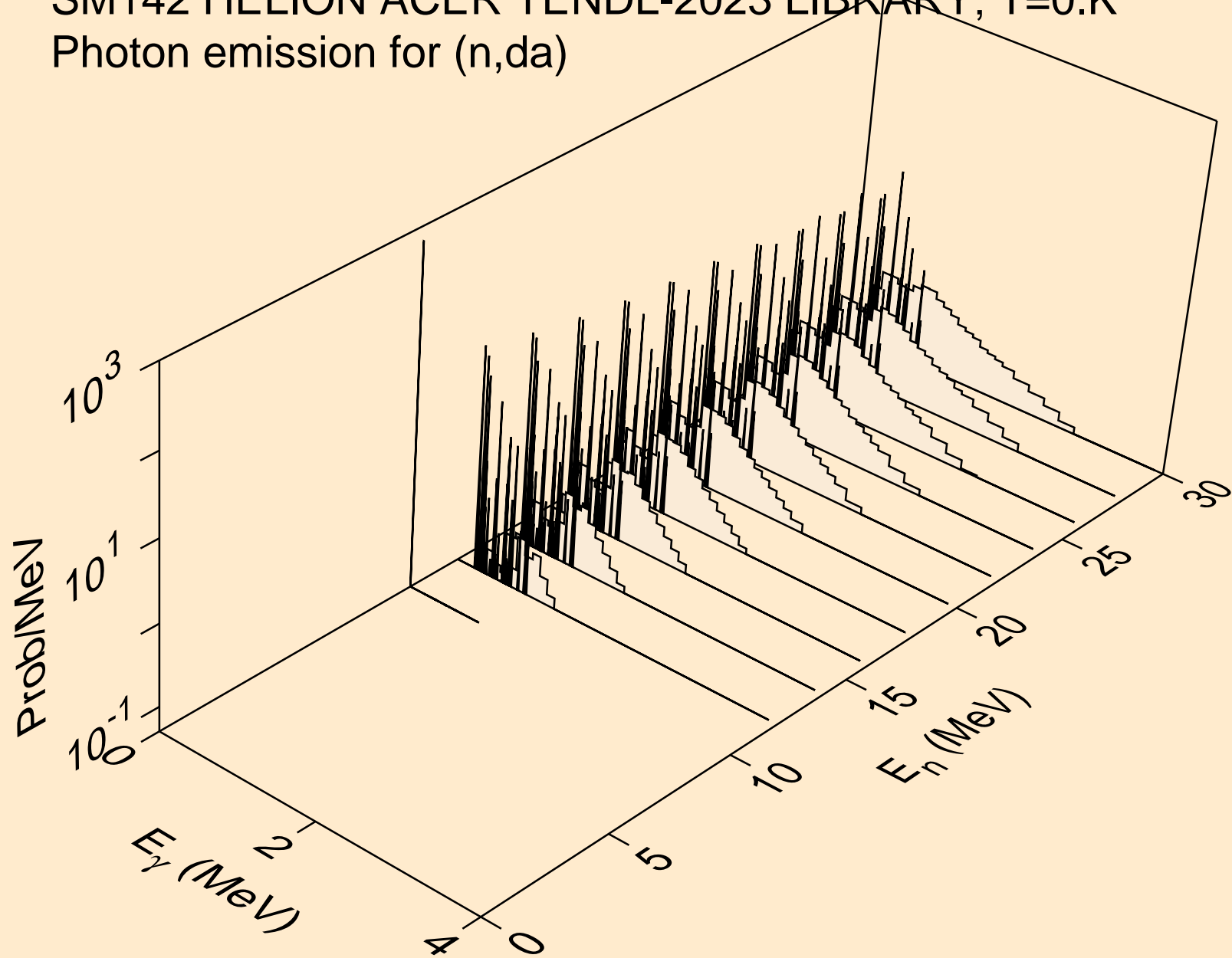
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Photon emission for (n,pd)



SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

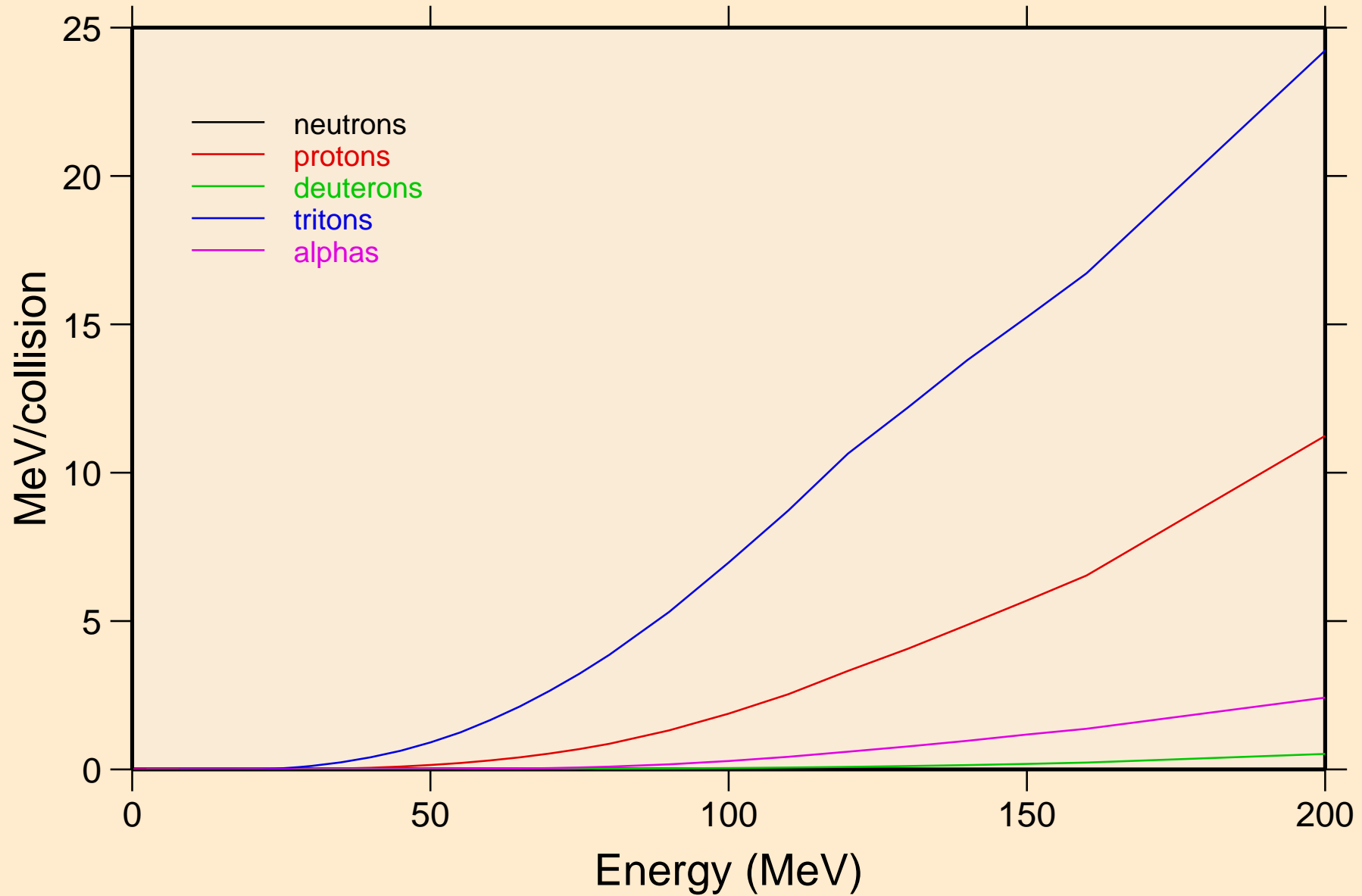


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Photon emission for (n,da)

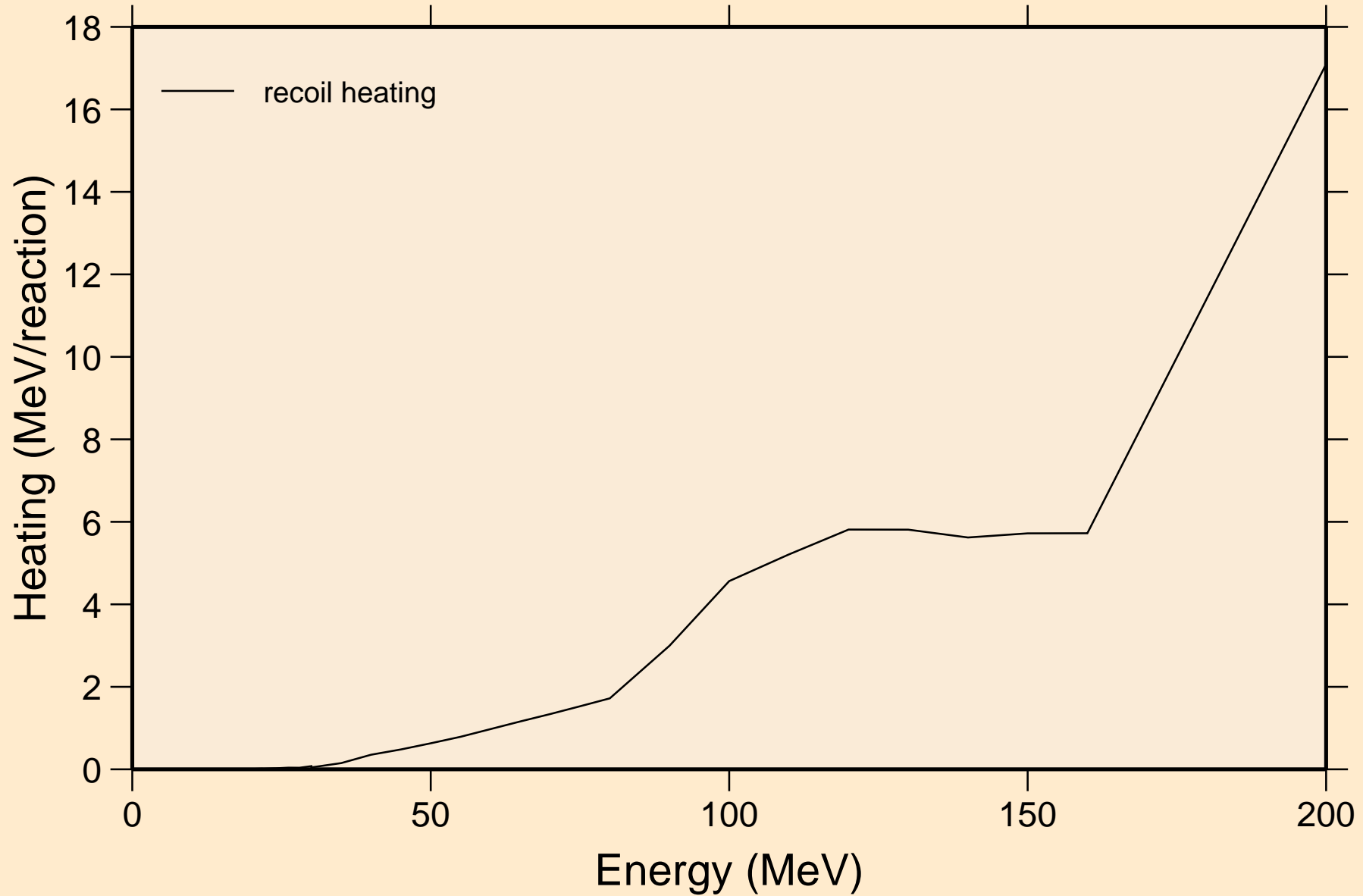


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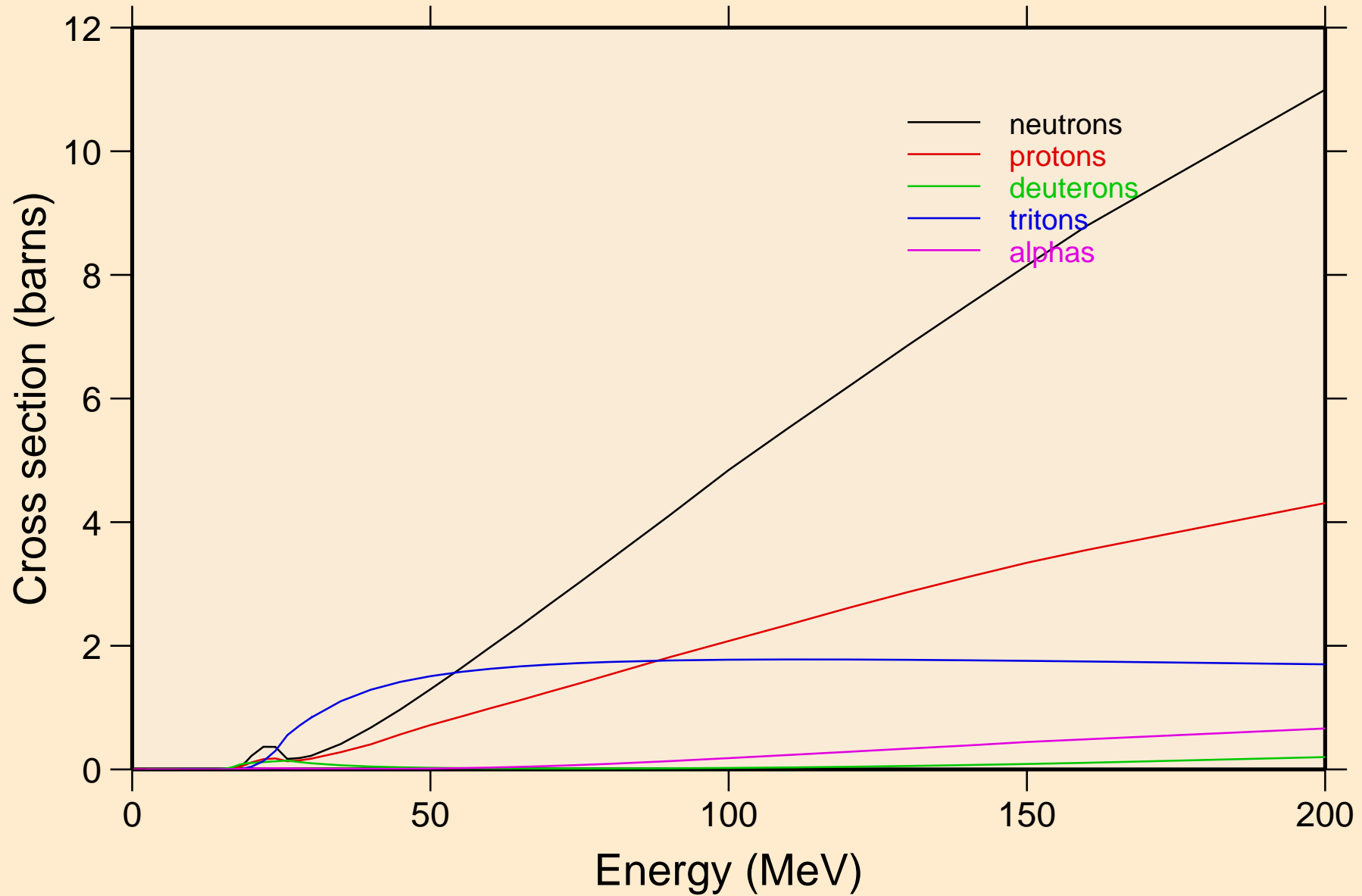
## Particle heating contributions



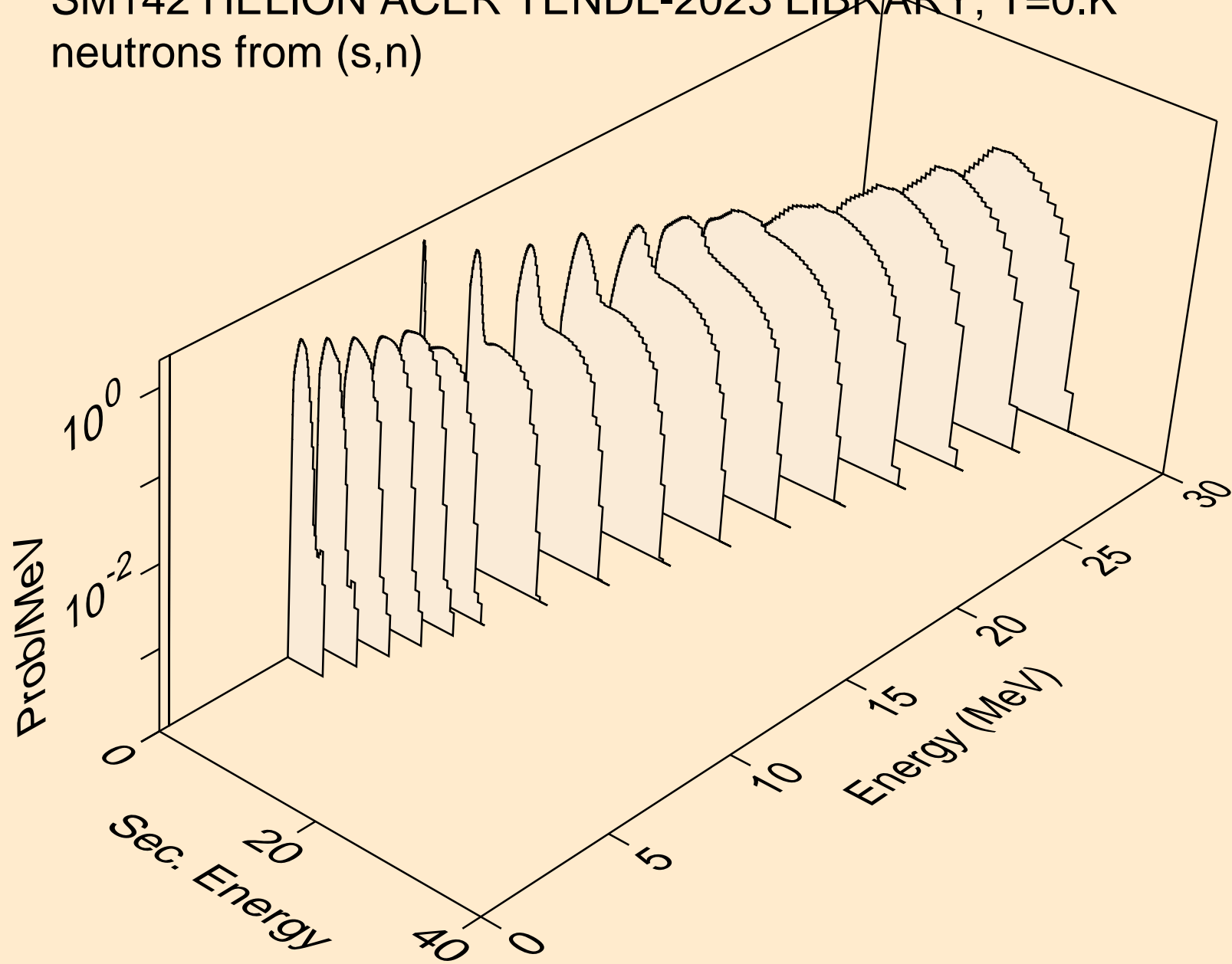
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



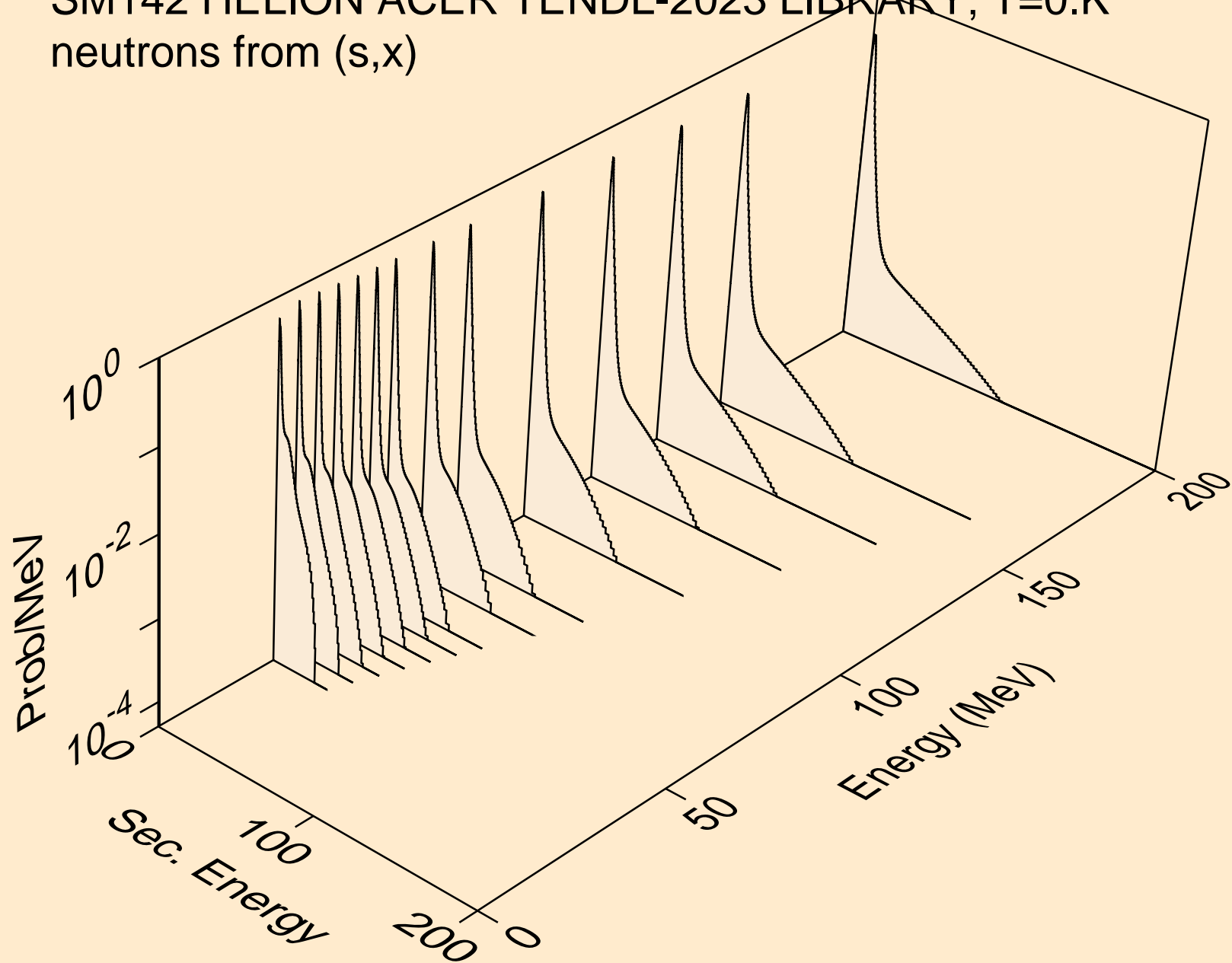
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



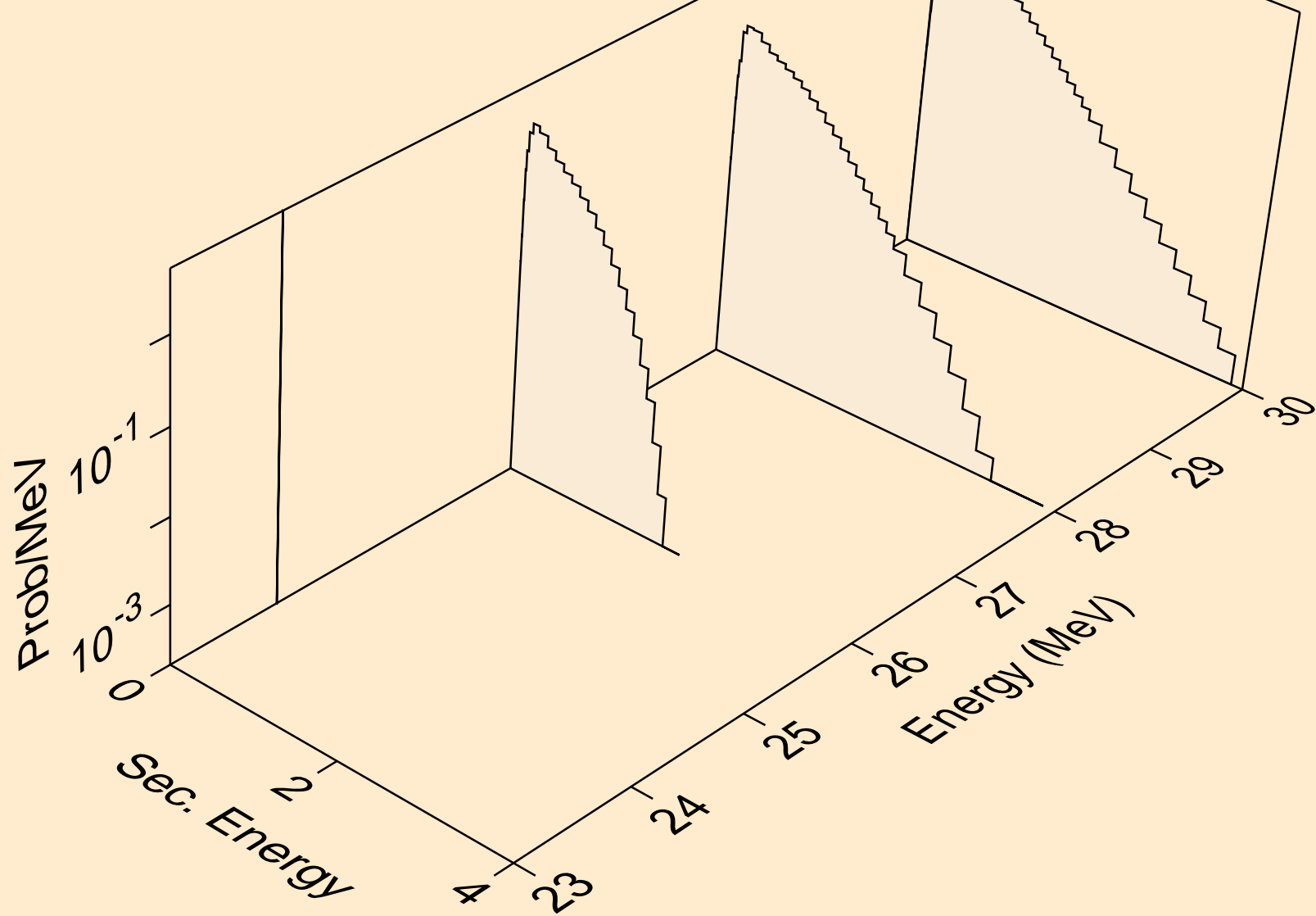
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n)



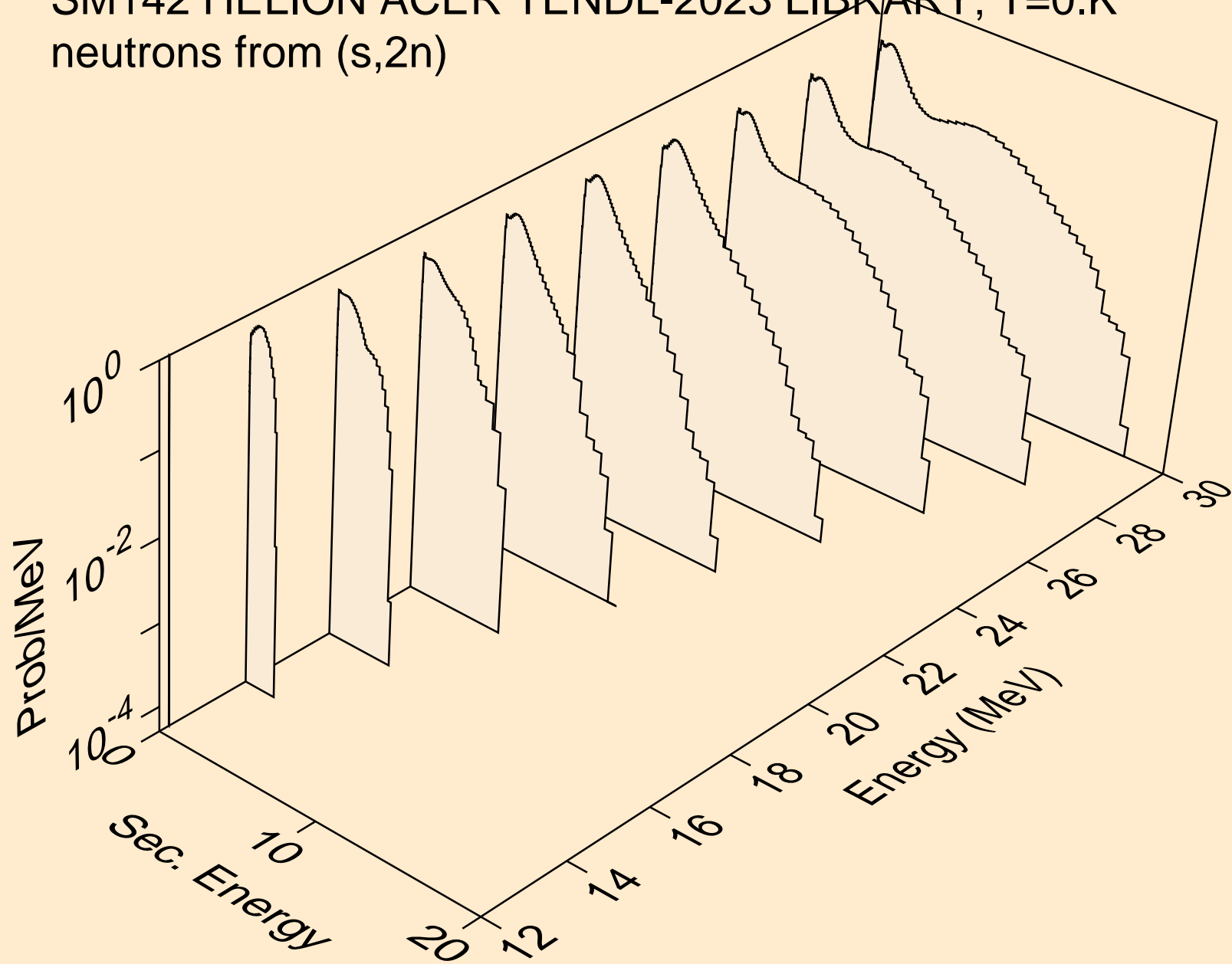
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neutrons from (s,x)



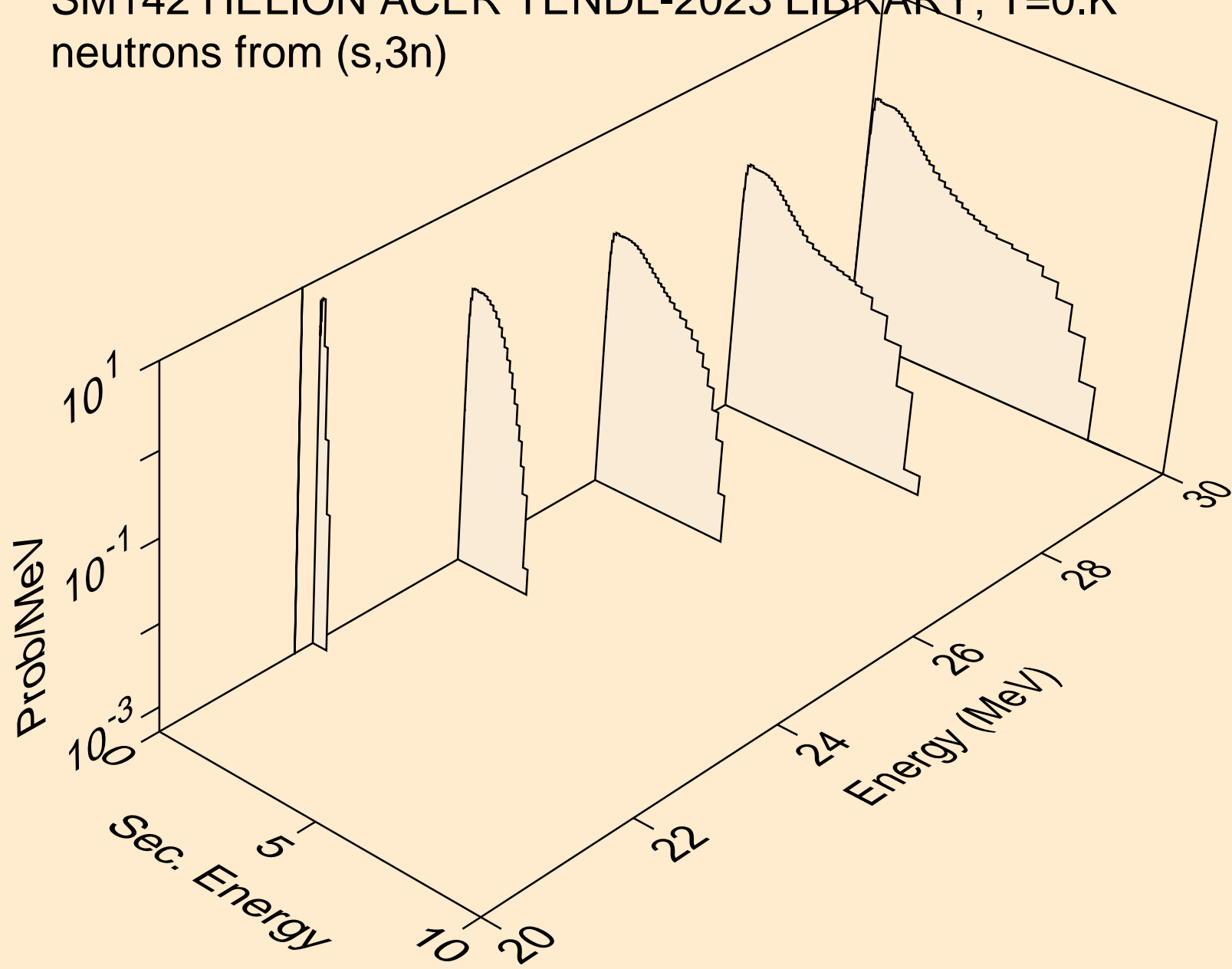
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neutrons from (s,2nd)



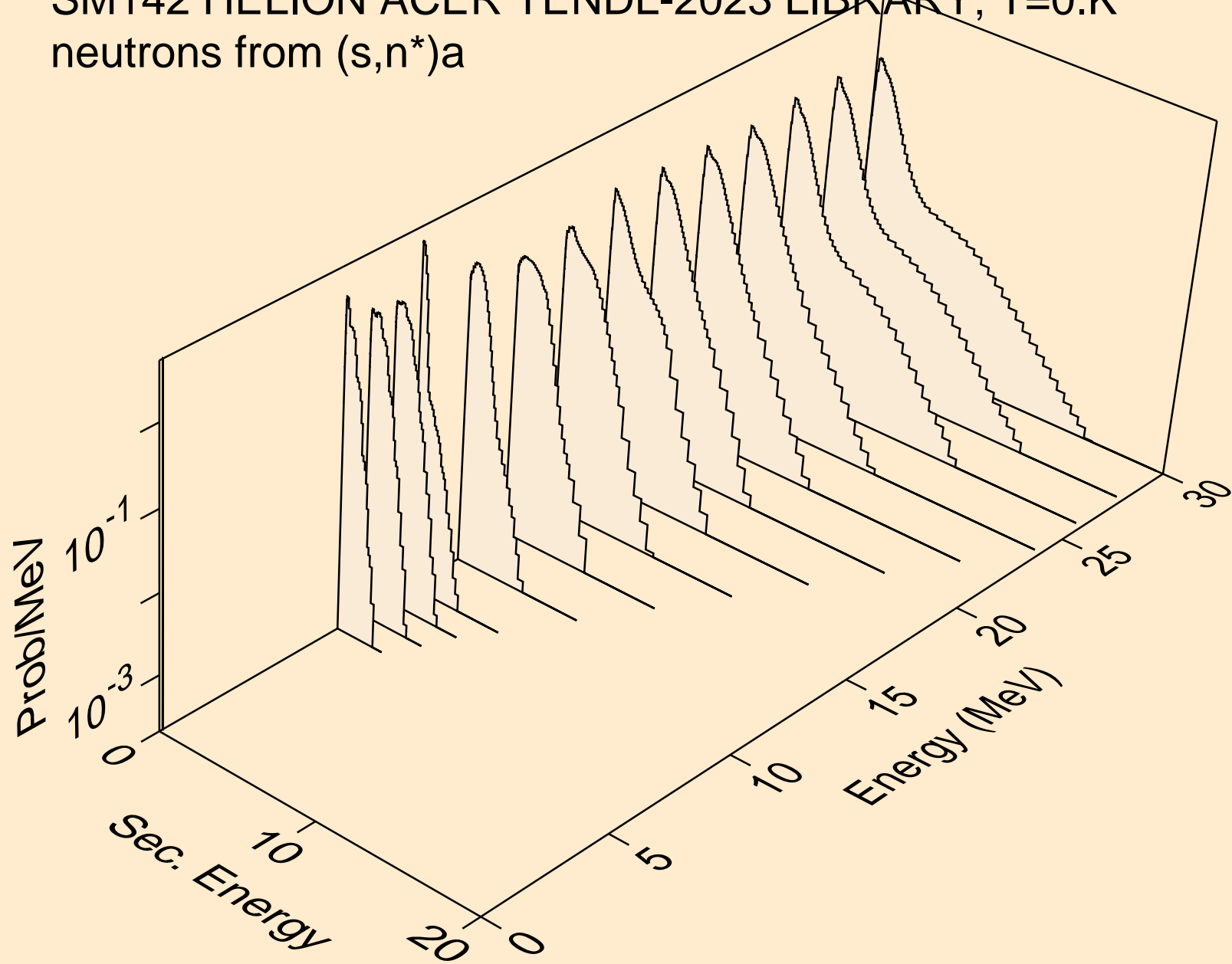
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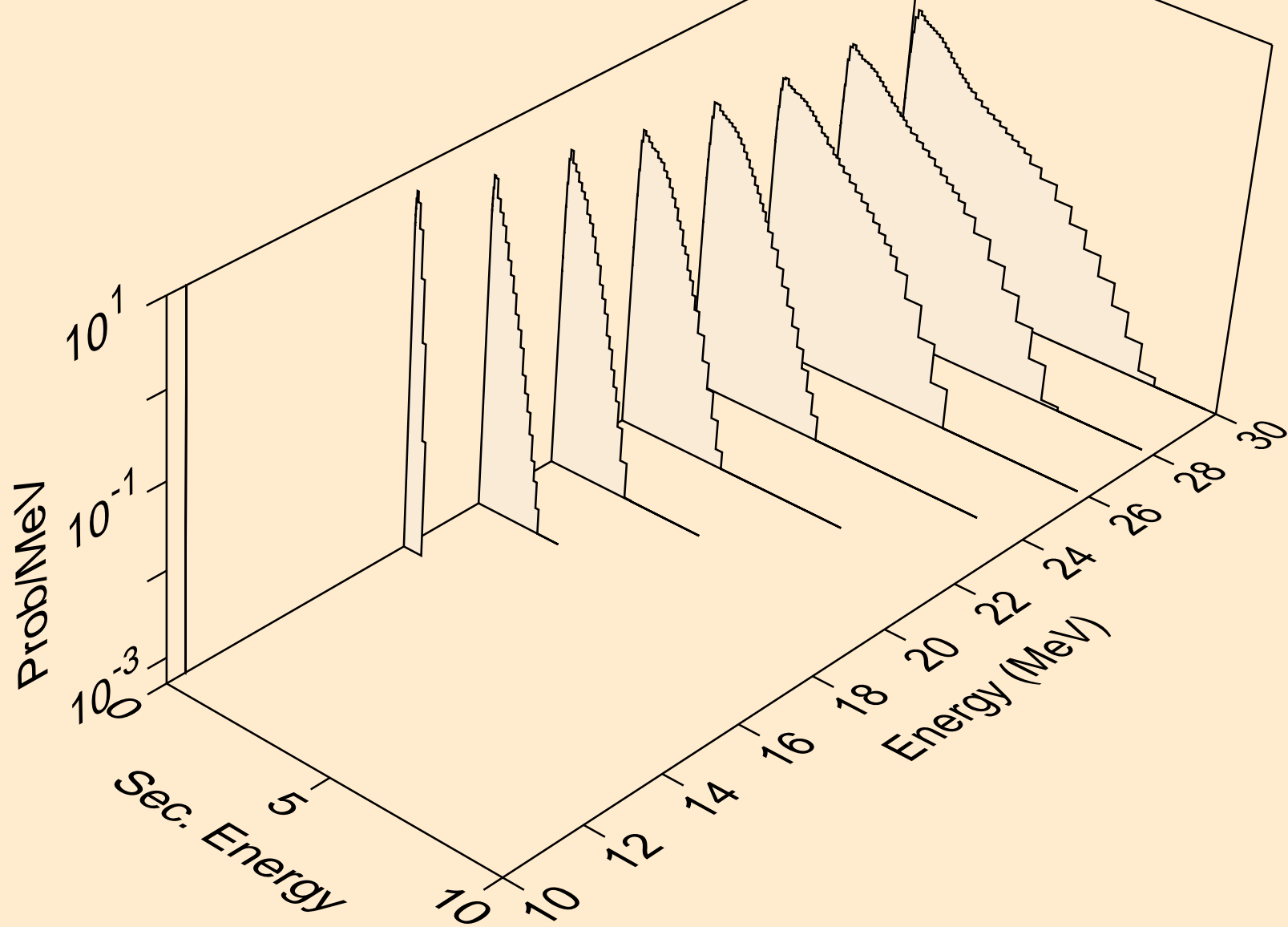
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neutrons from (s,3n)



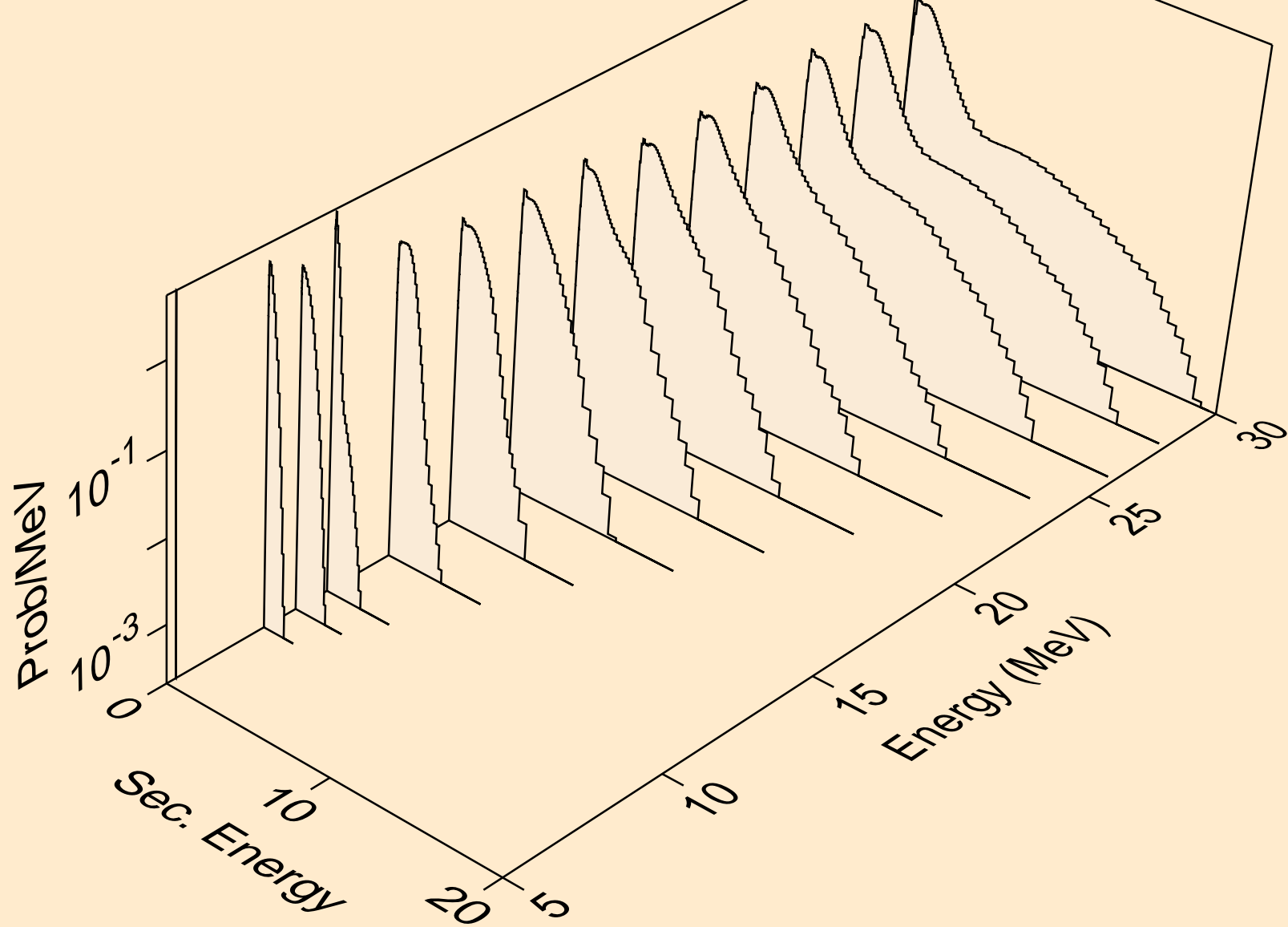
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)a



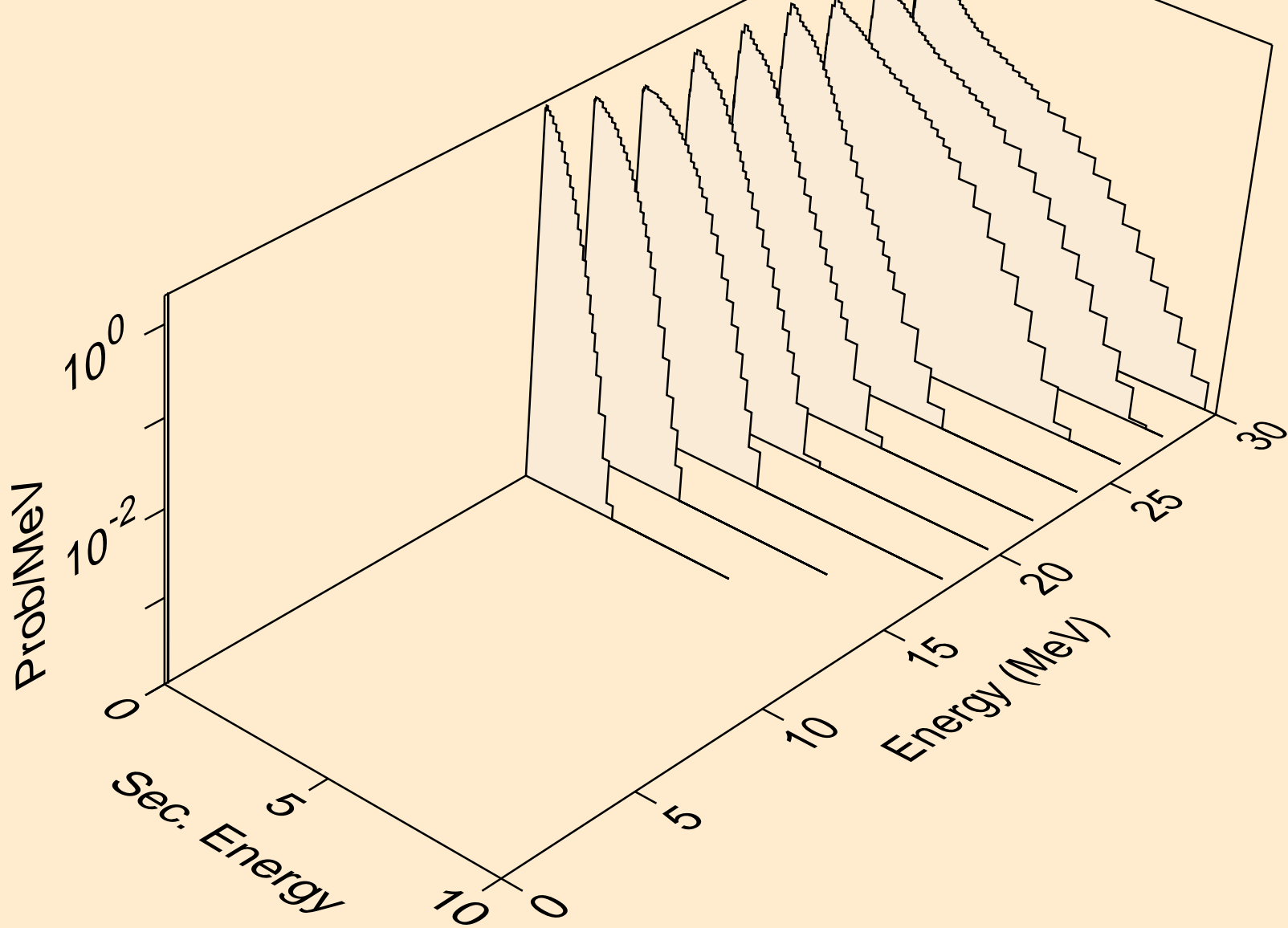
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neutrons from (s,2n)a



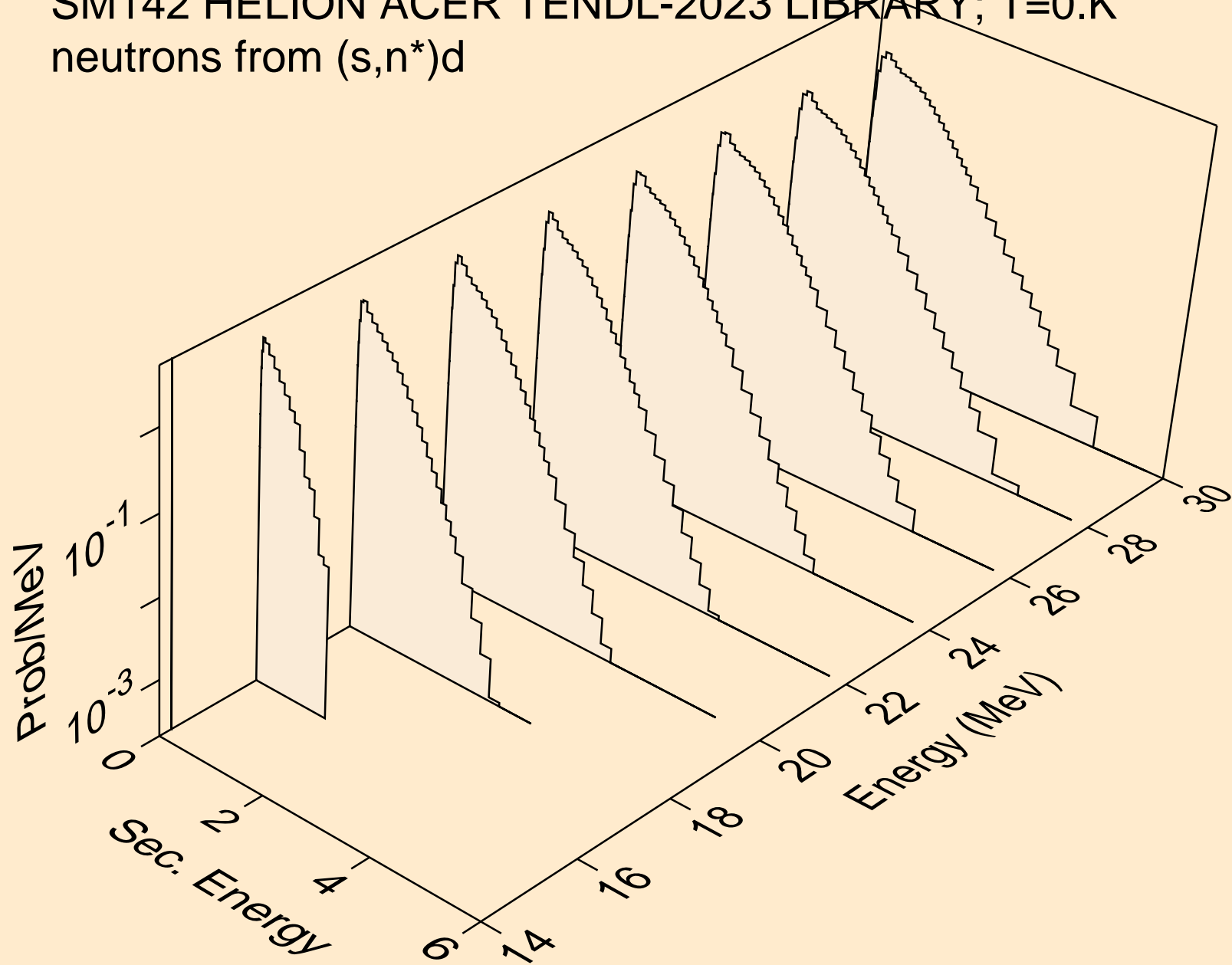
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)p



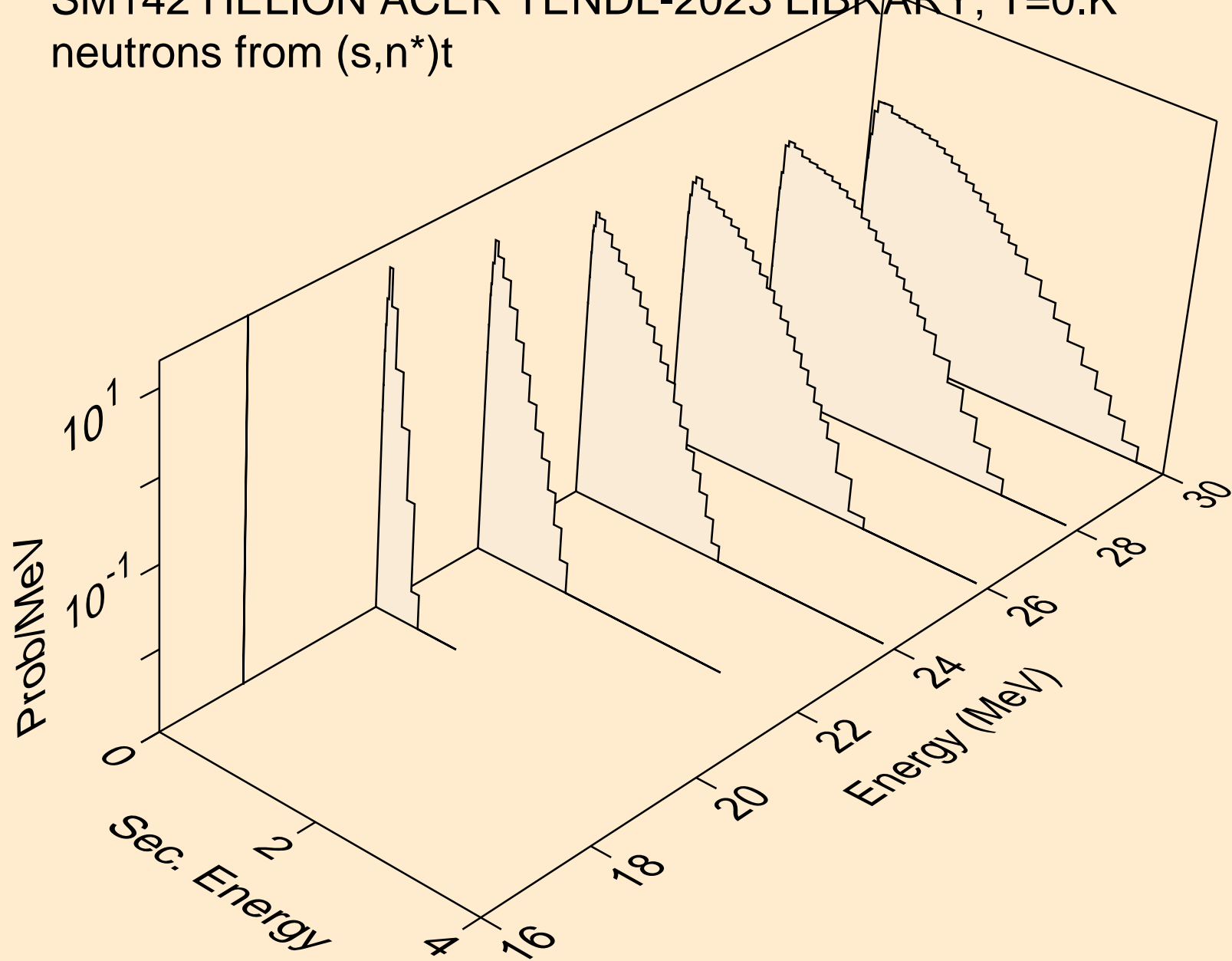
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neutrons from (s,n\*)2a



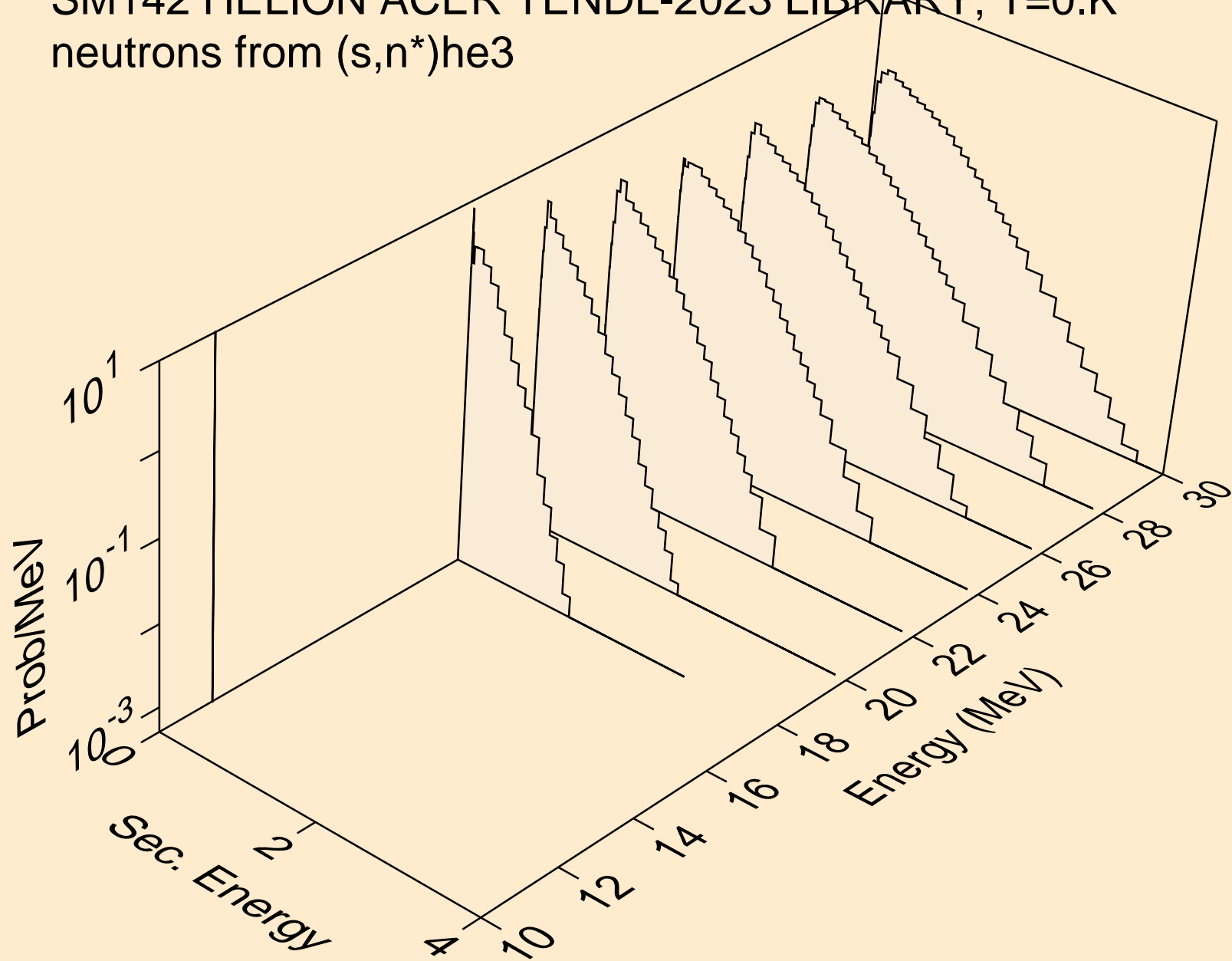
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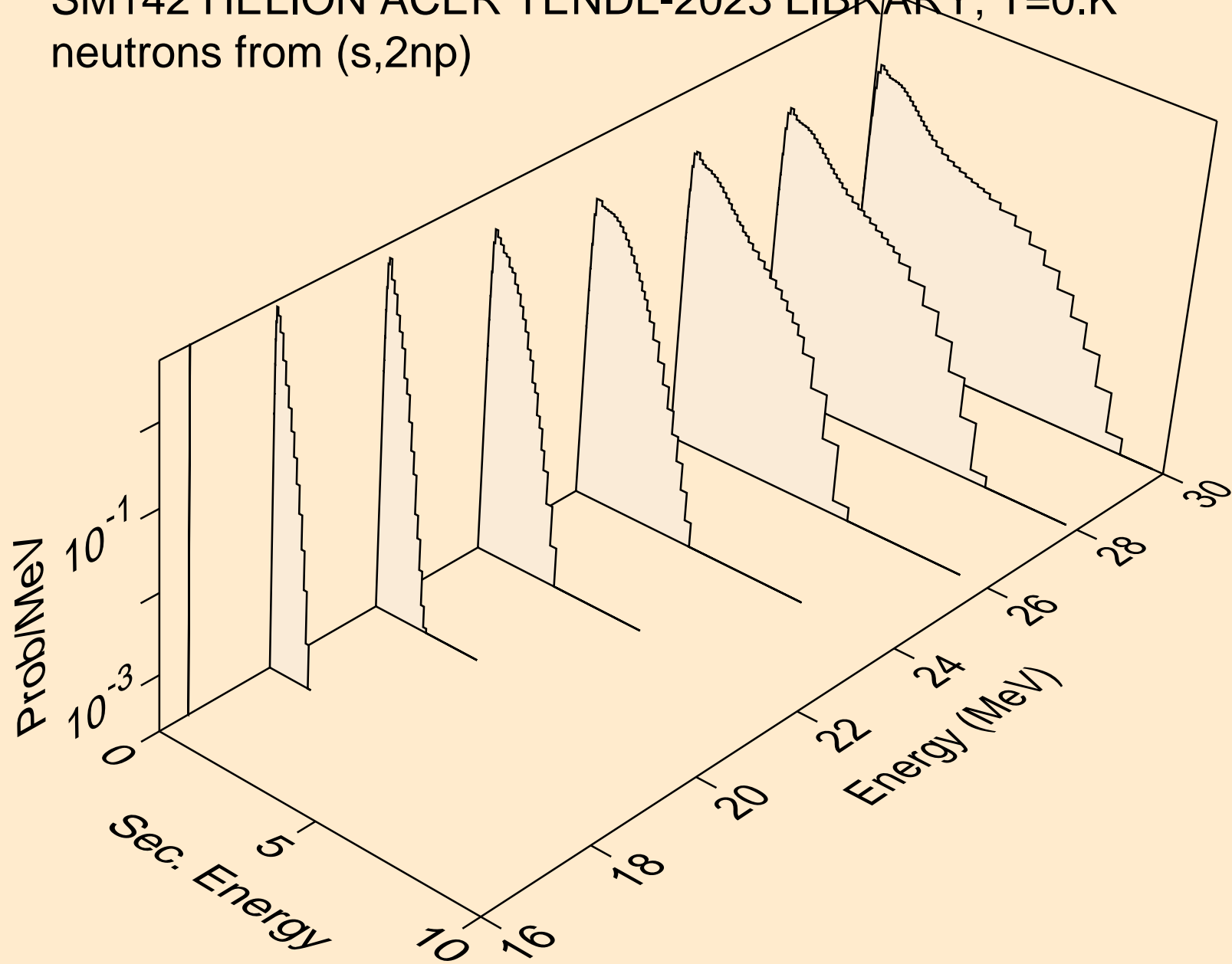
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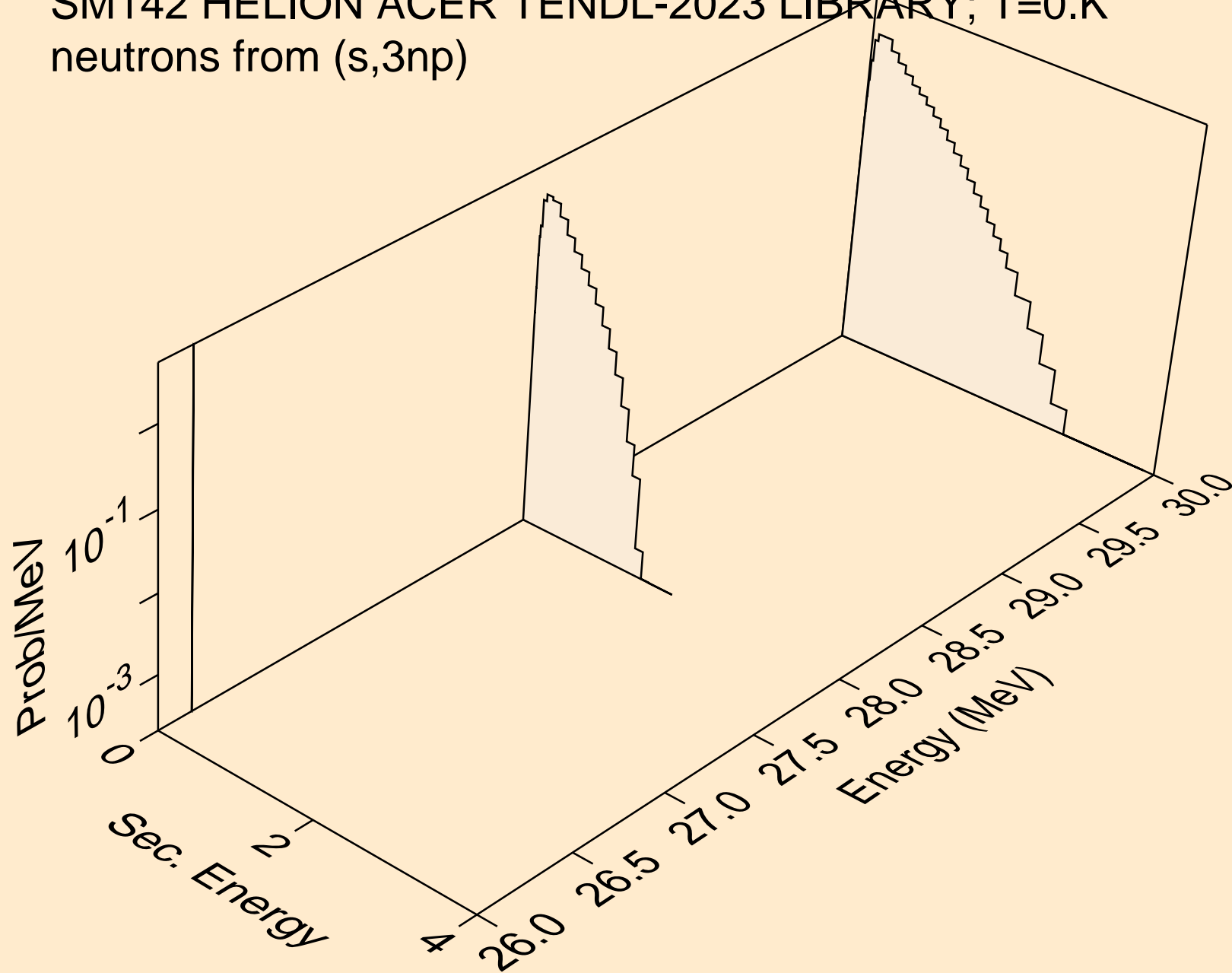
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



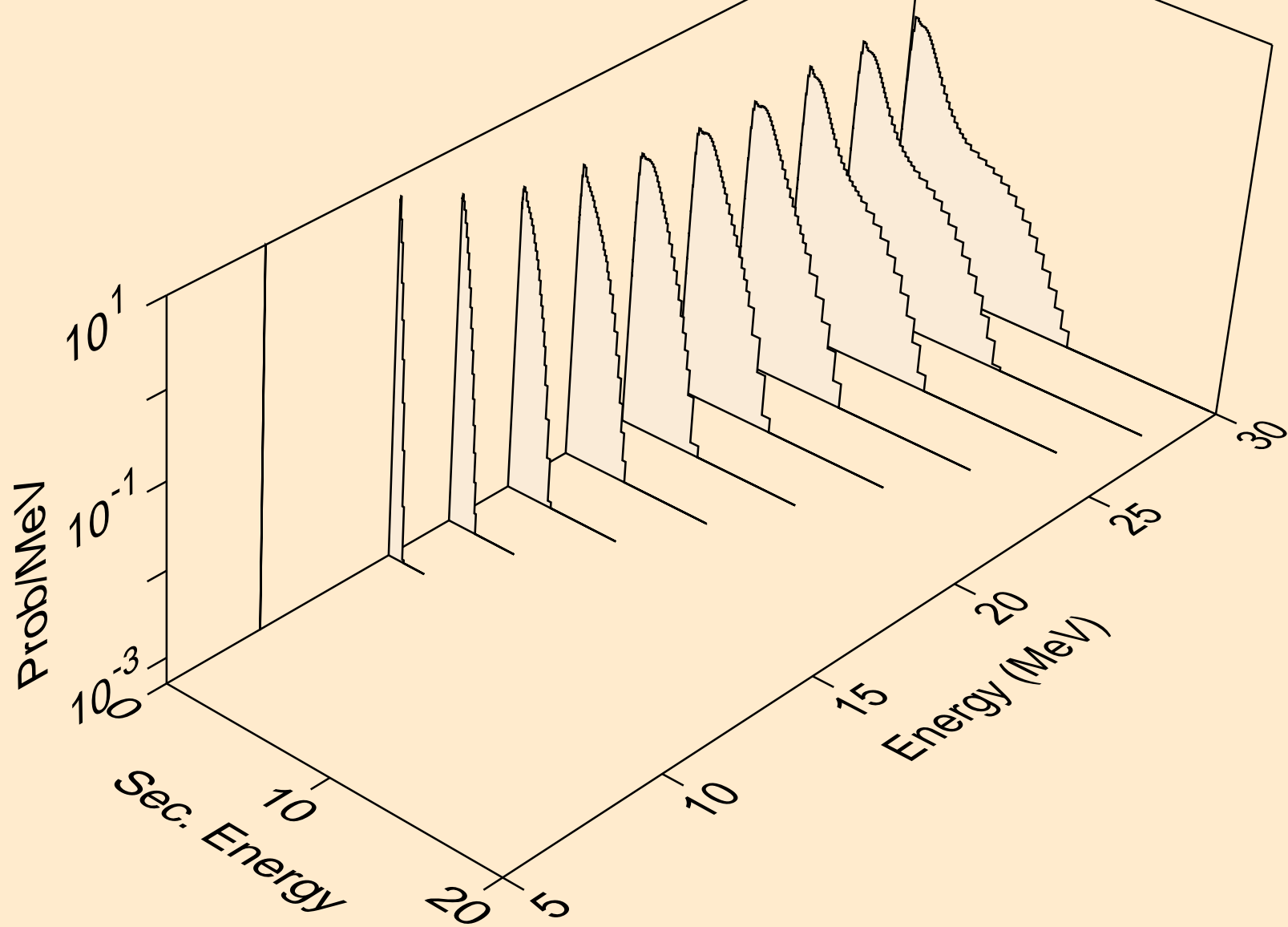
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neutrons from (s,2np)



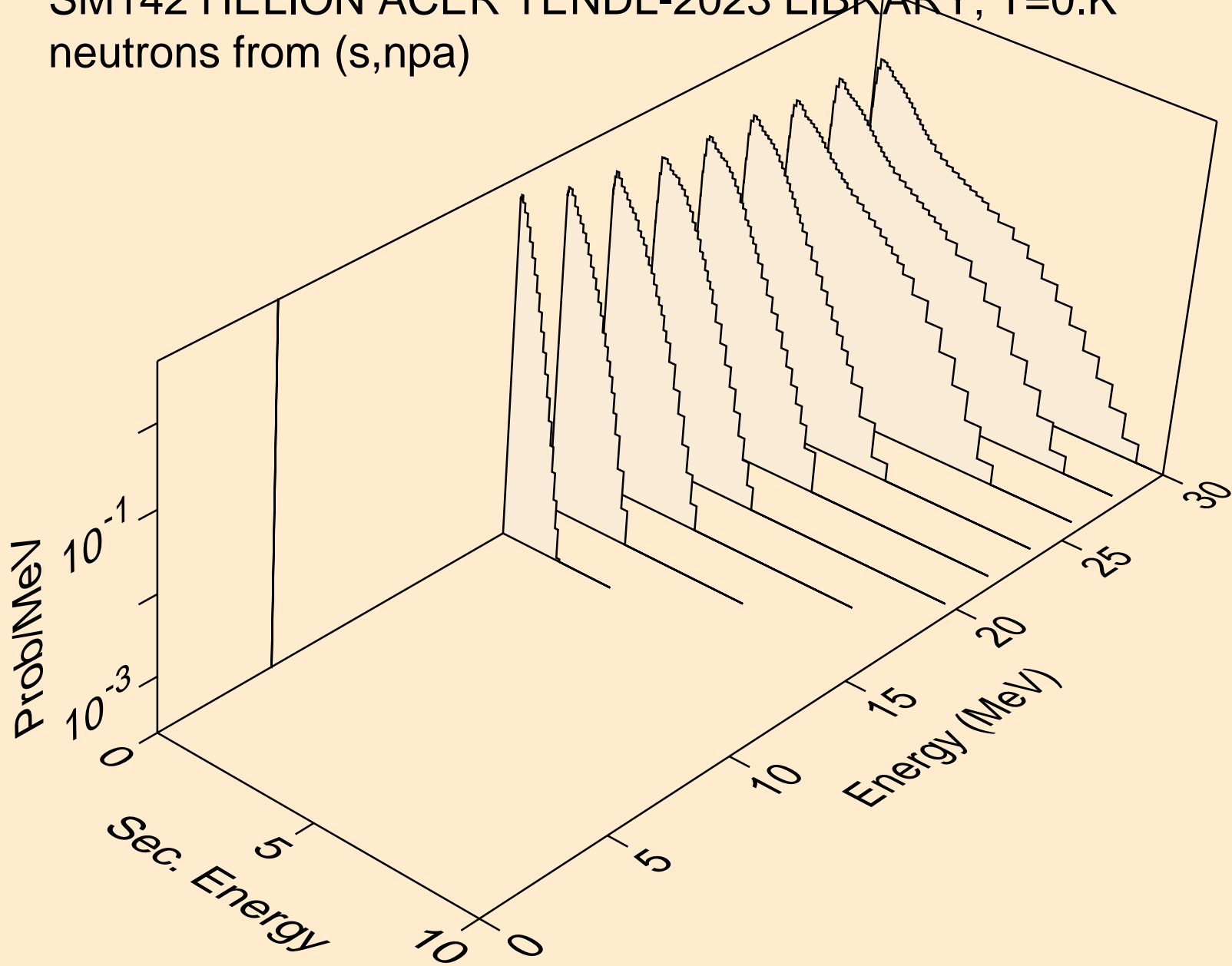
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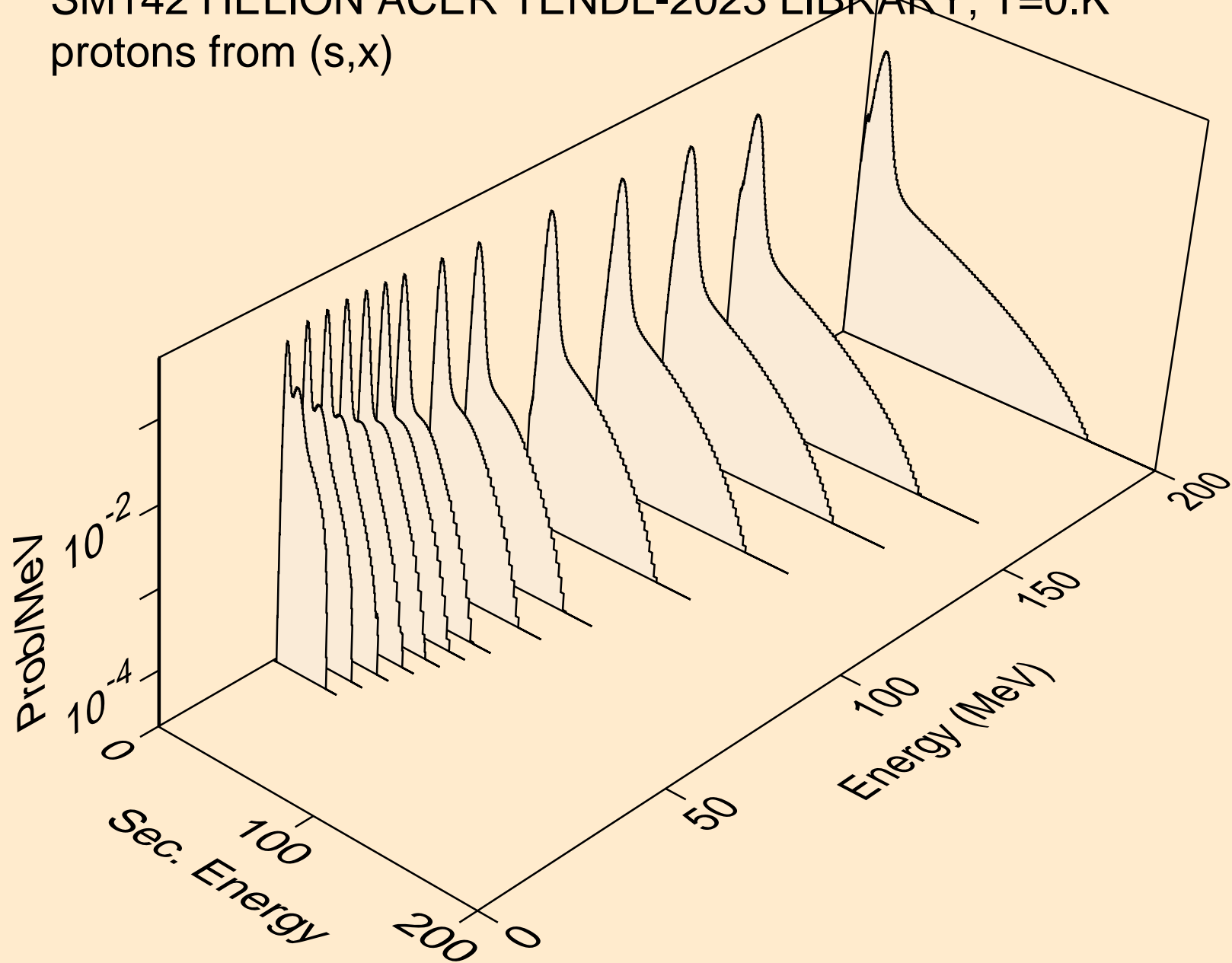
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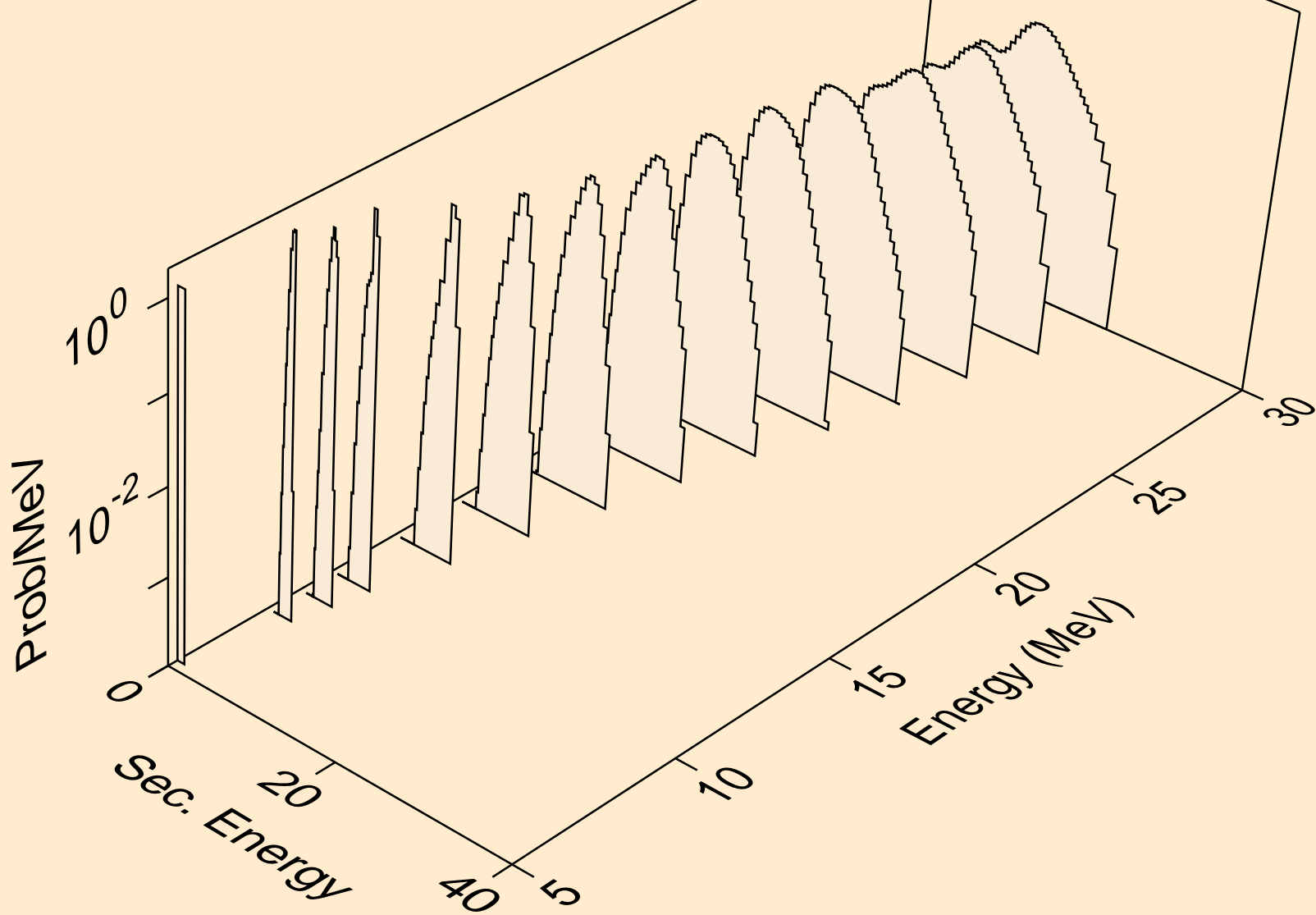
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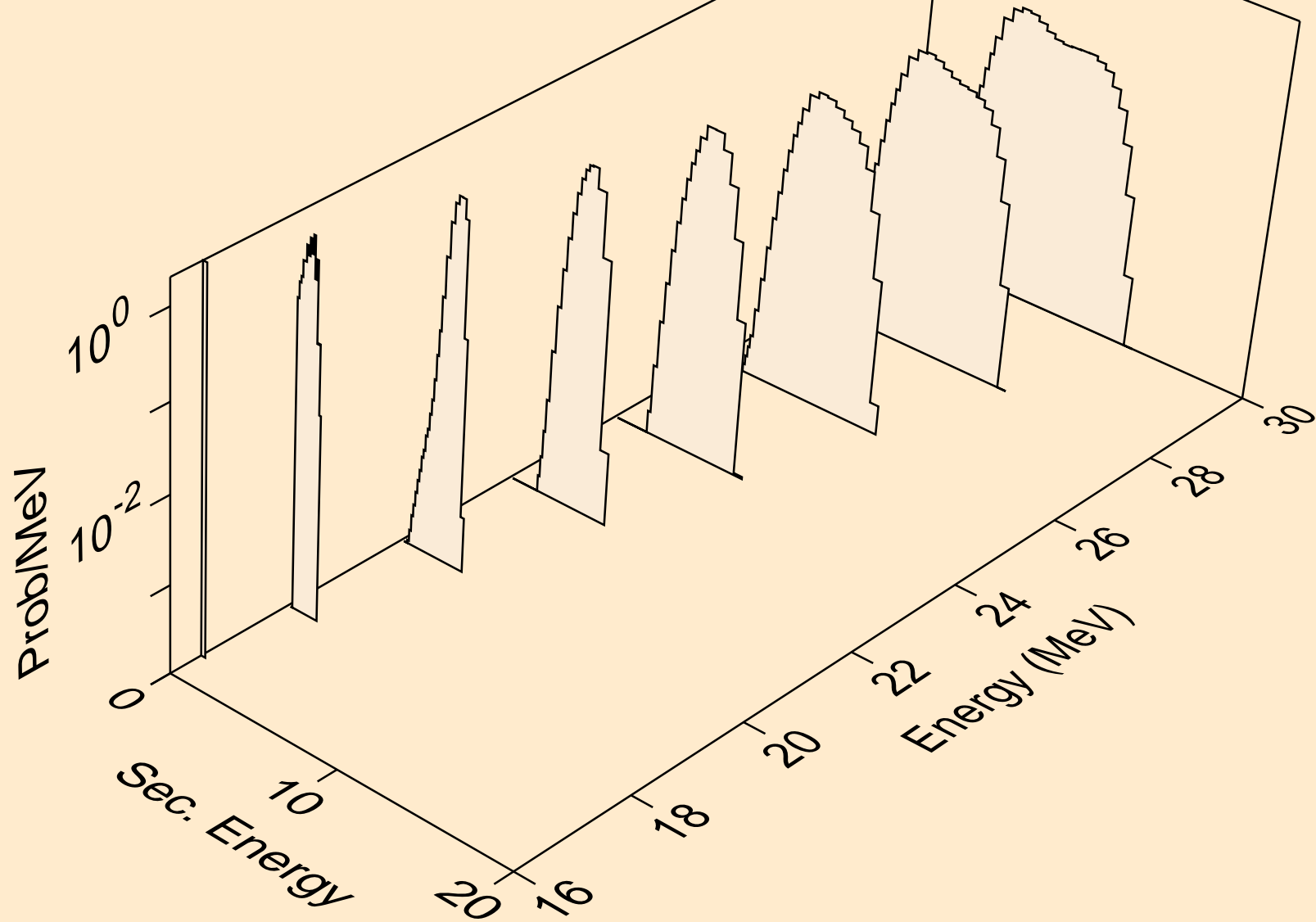
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protons from (s,x)



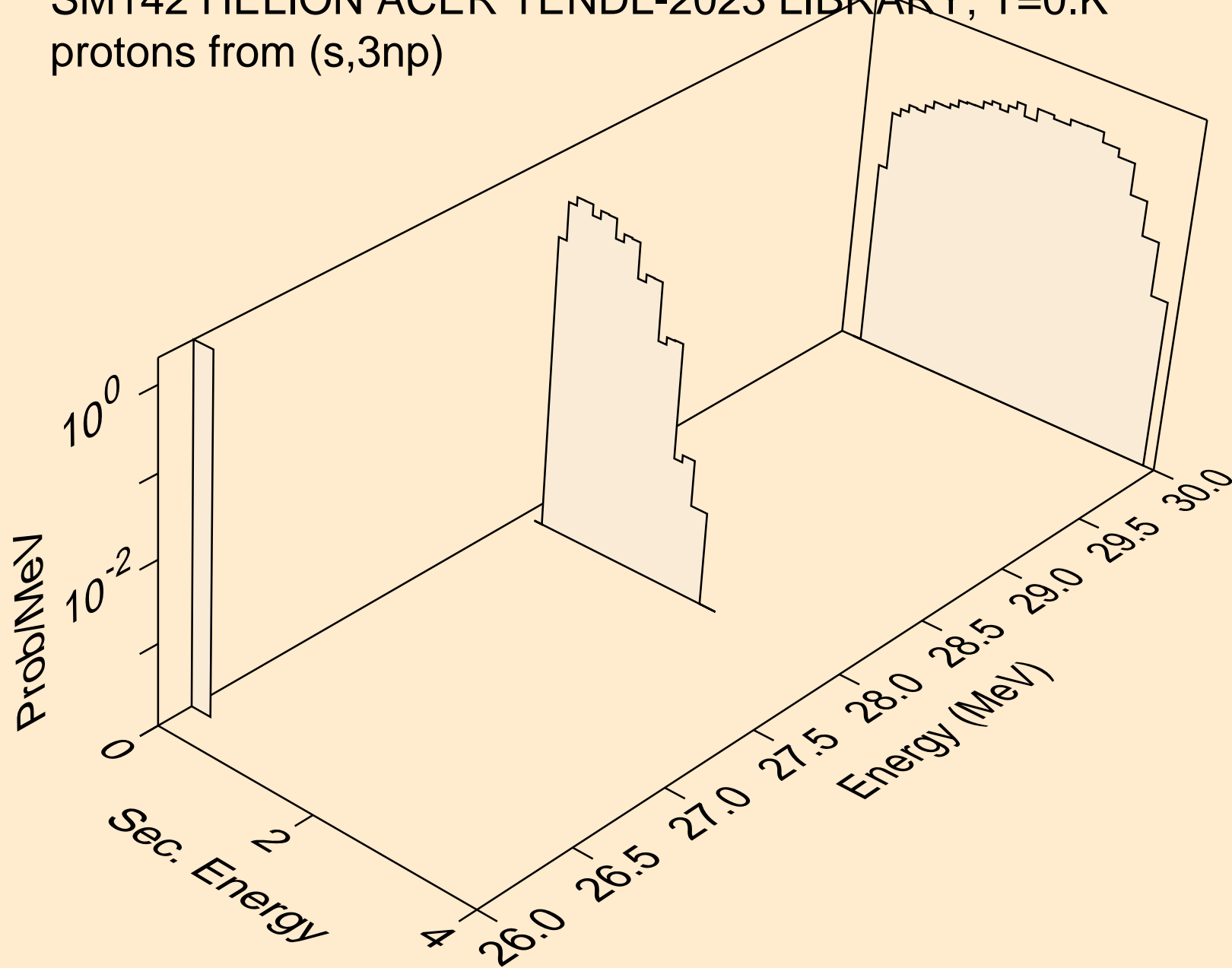
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protons from (s,n\*)p



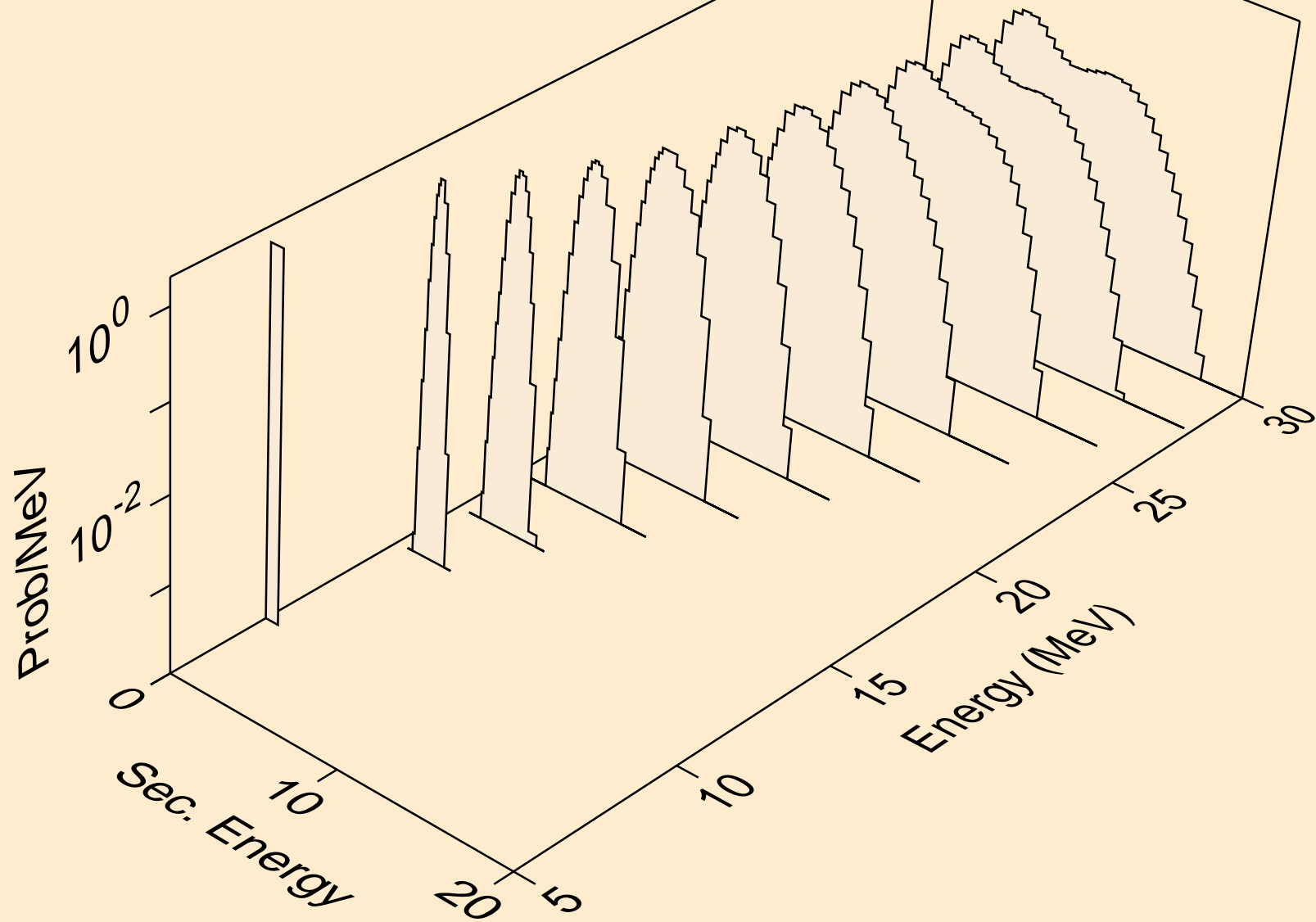
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protons from (s,2np)



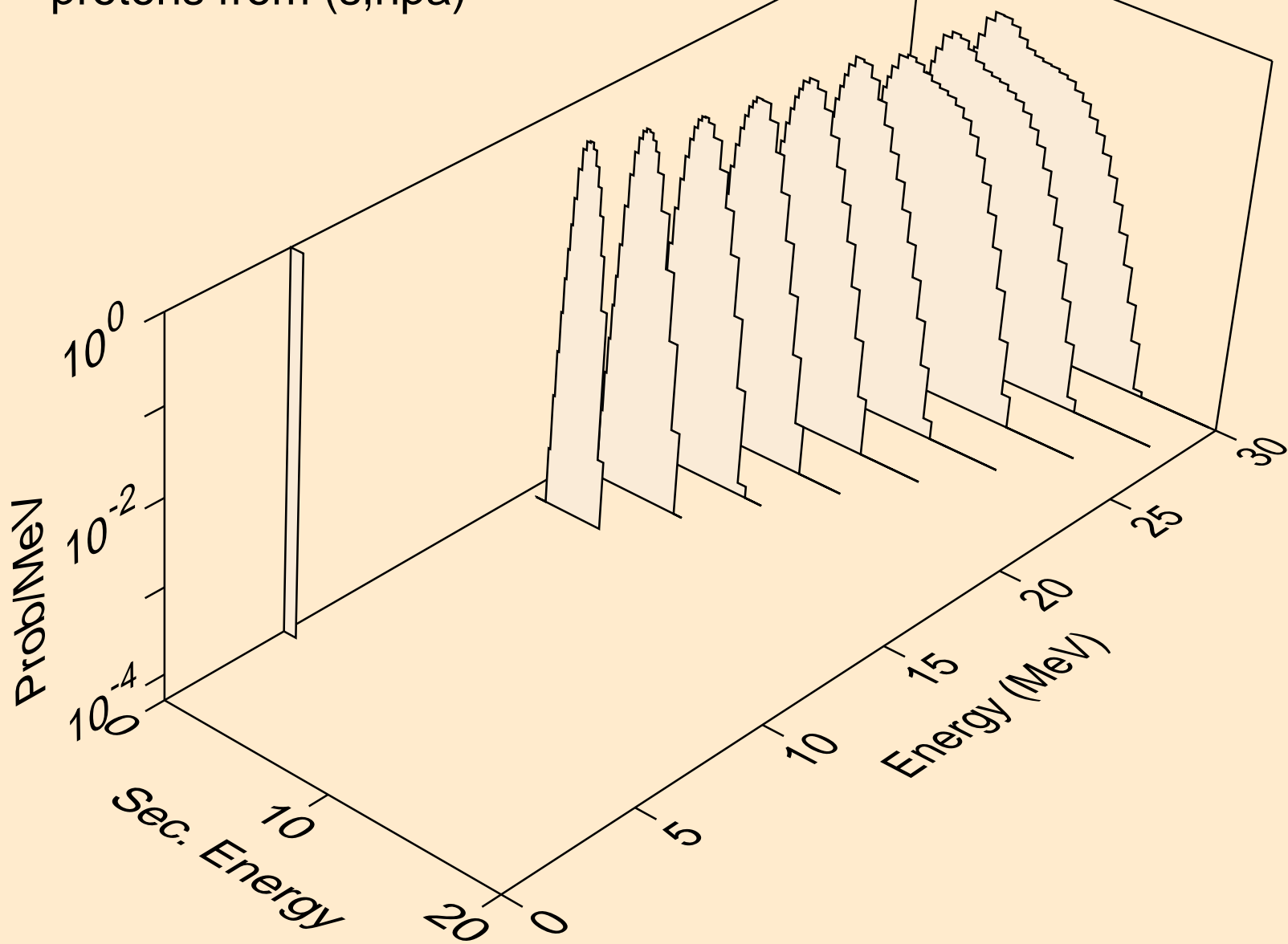
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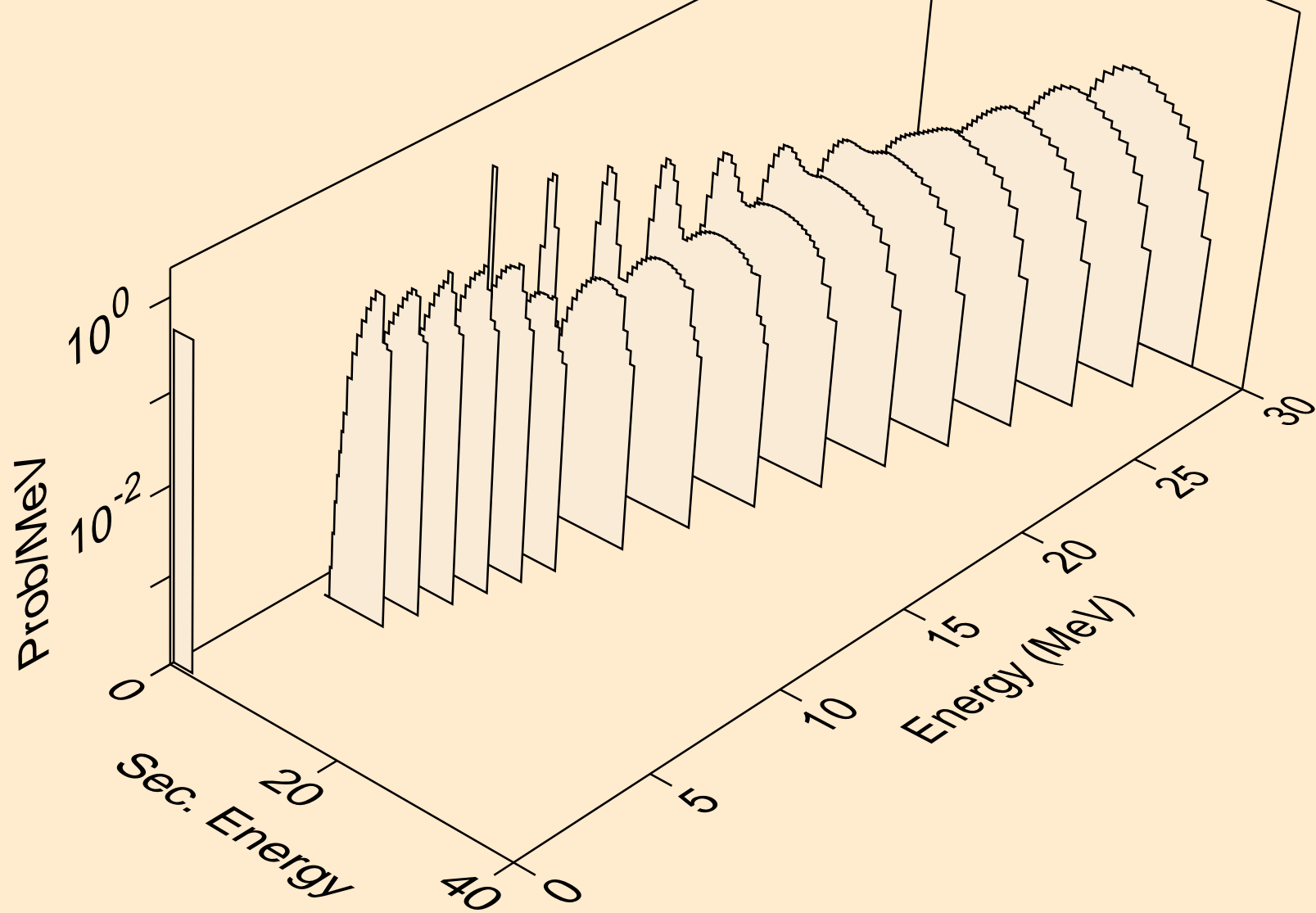
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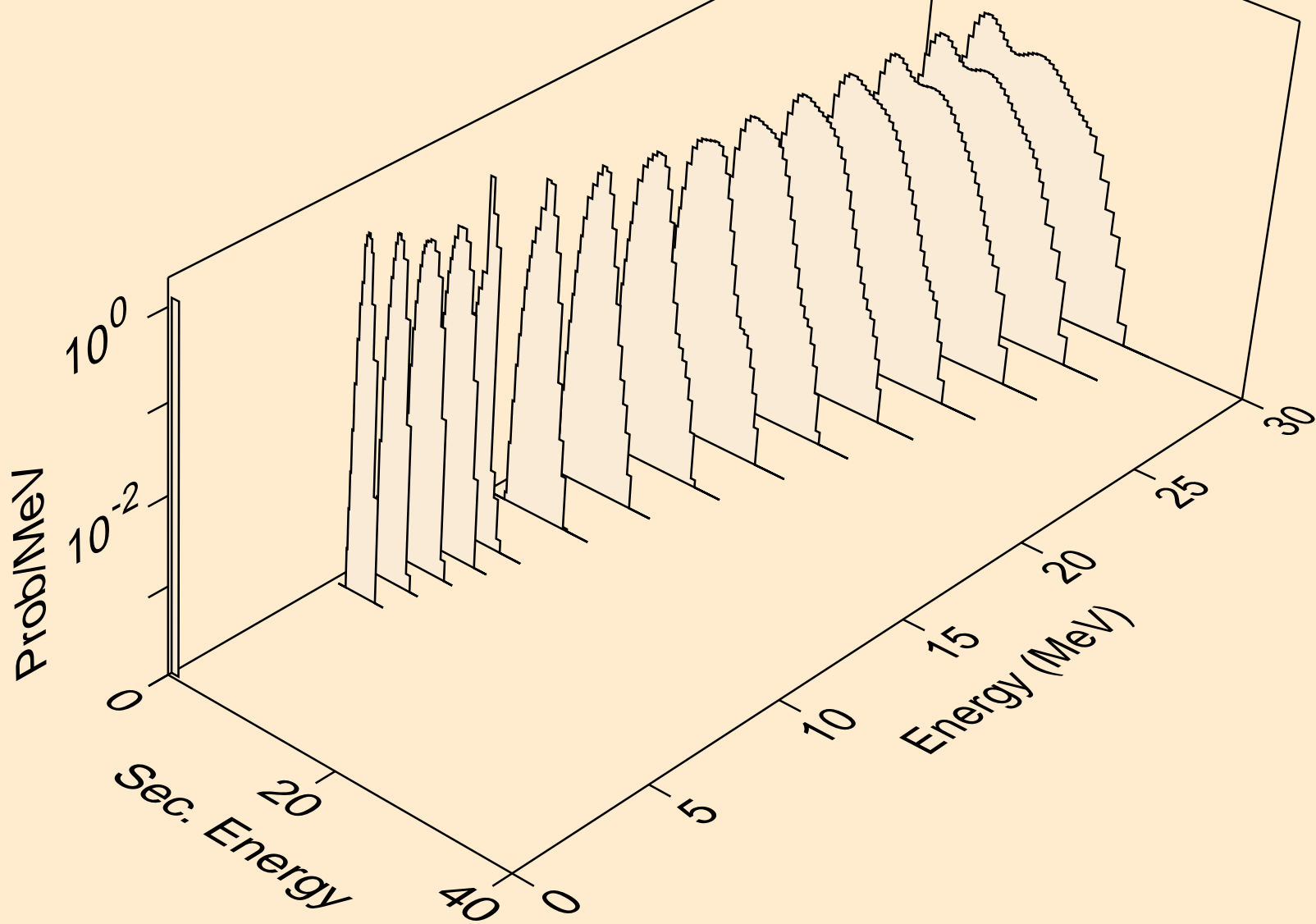
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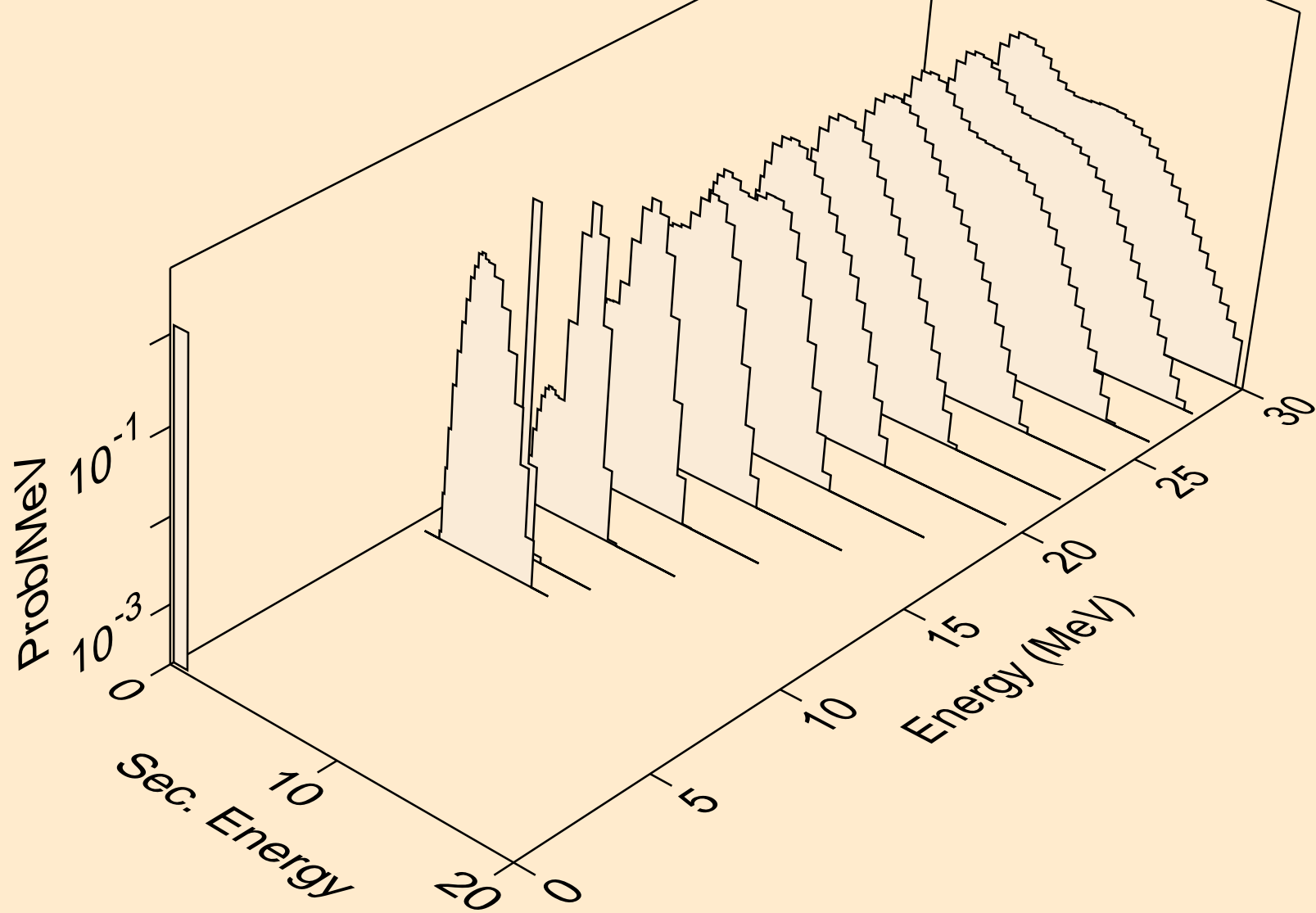
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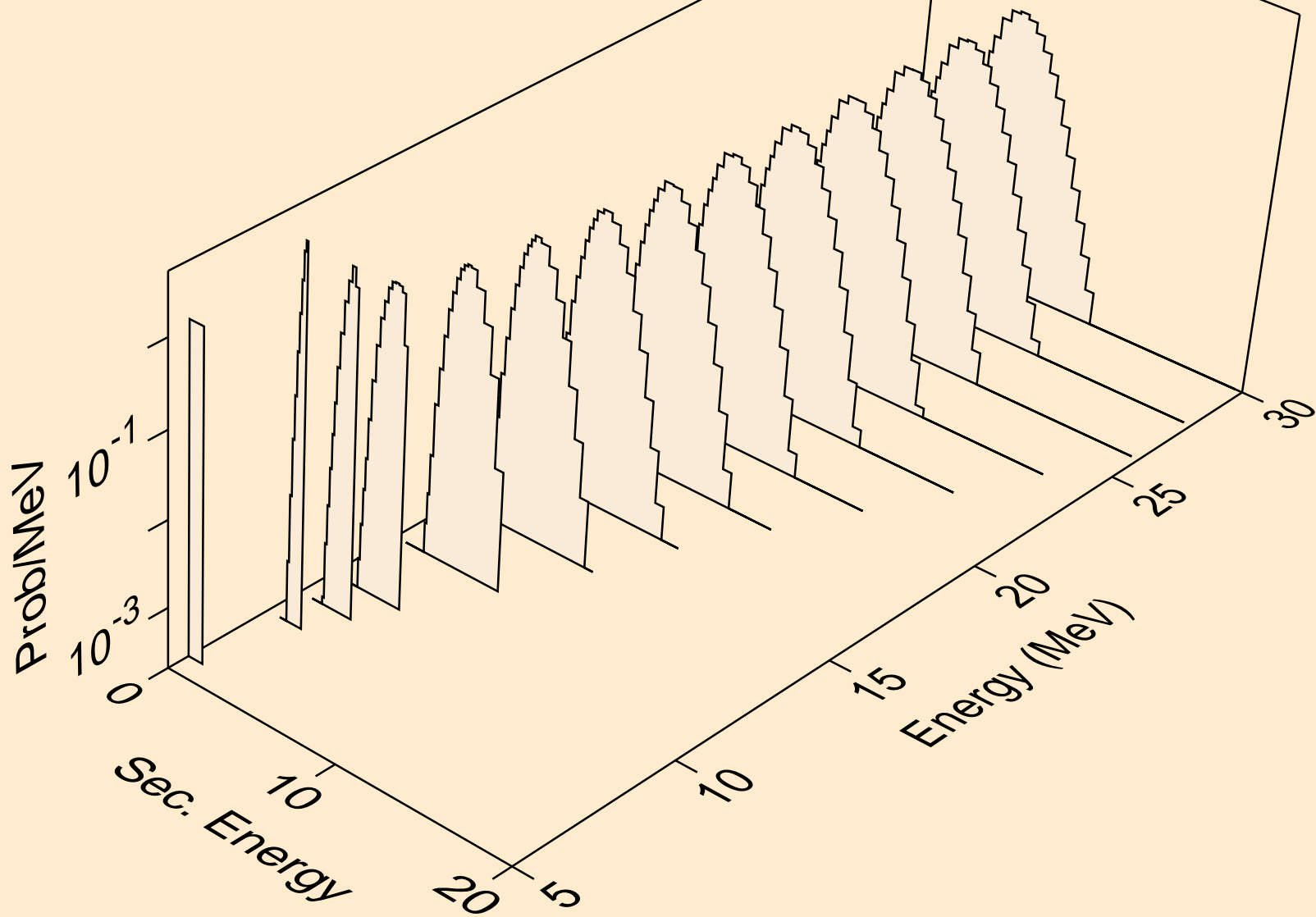
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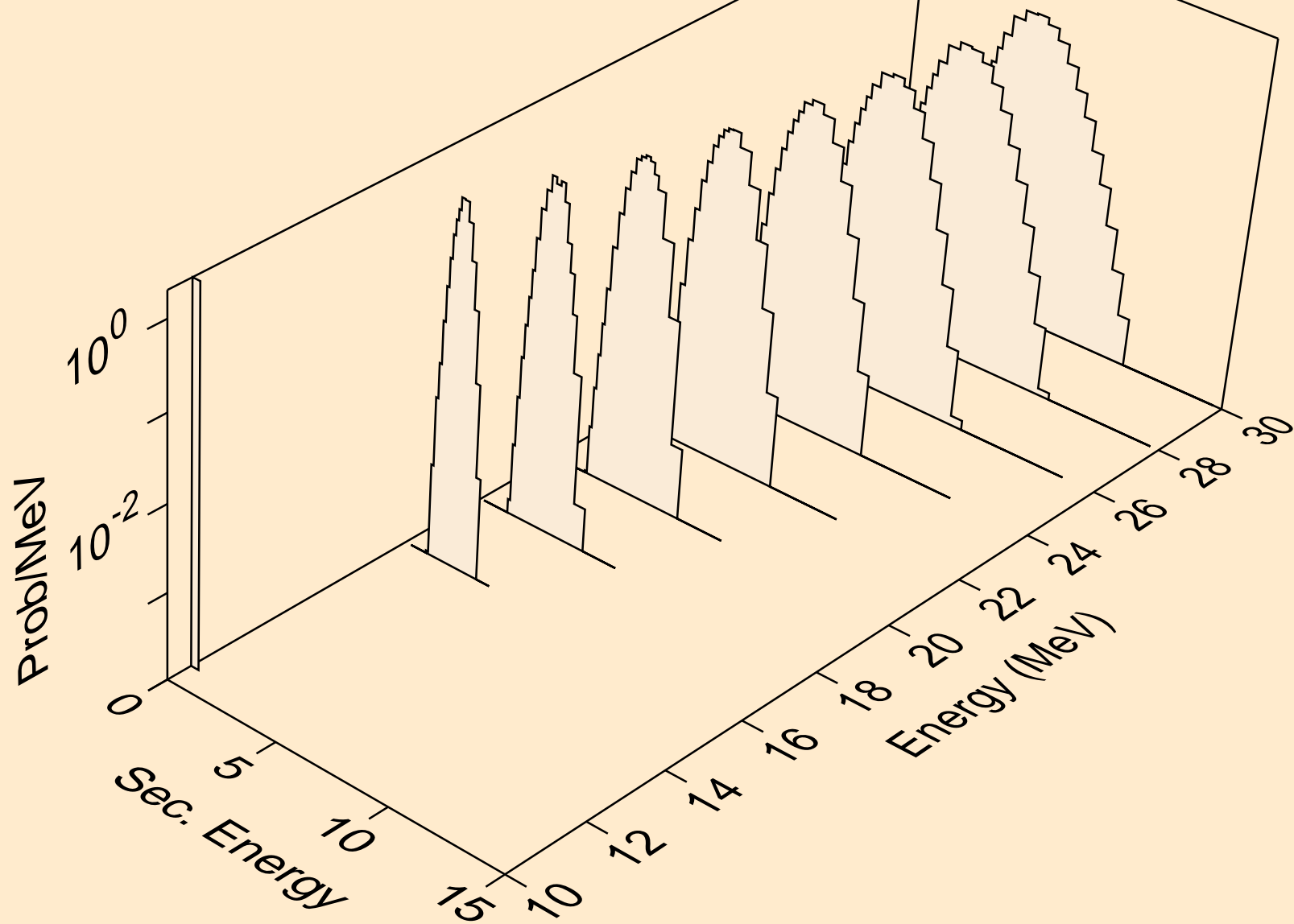
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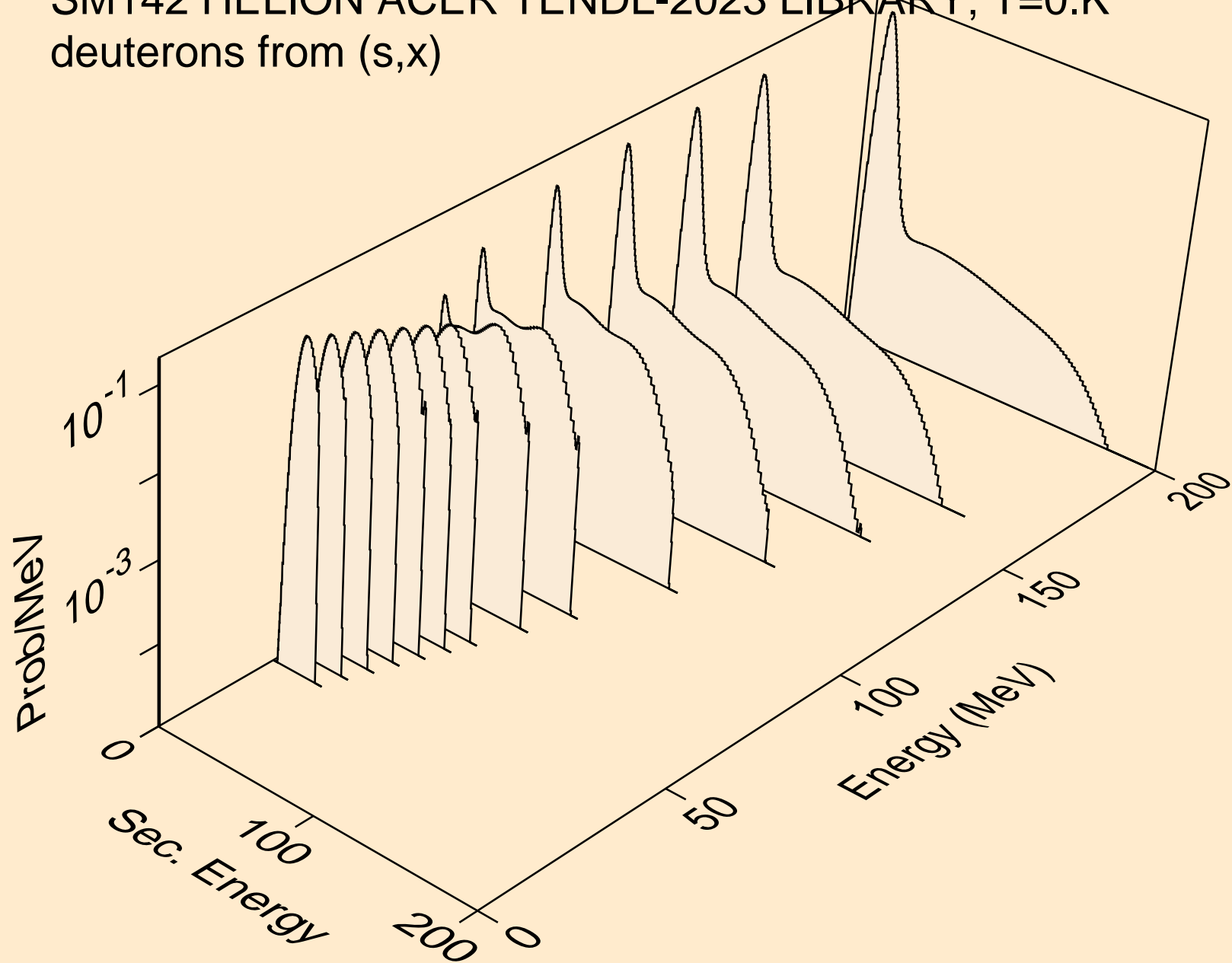
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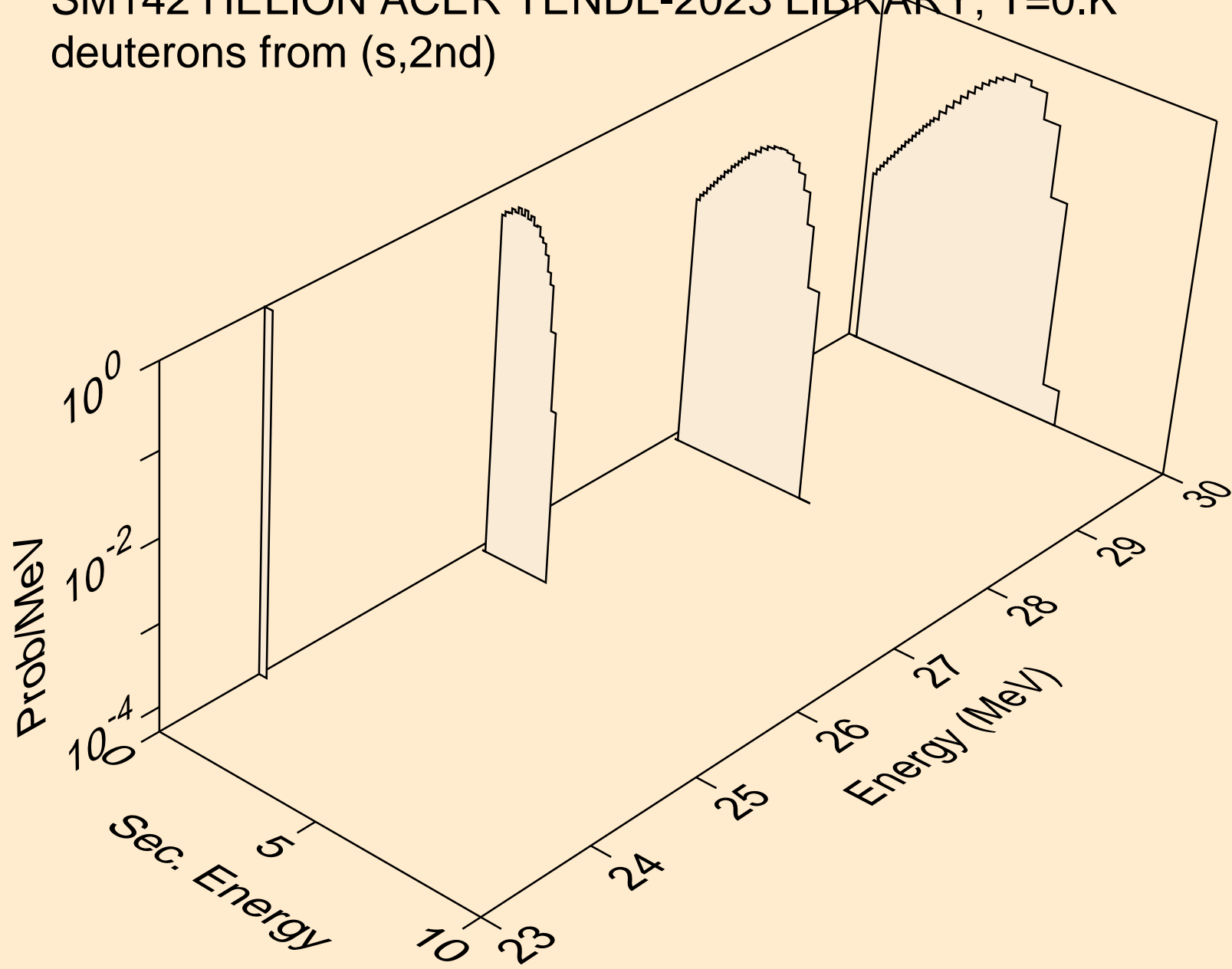
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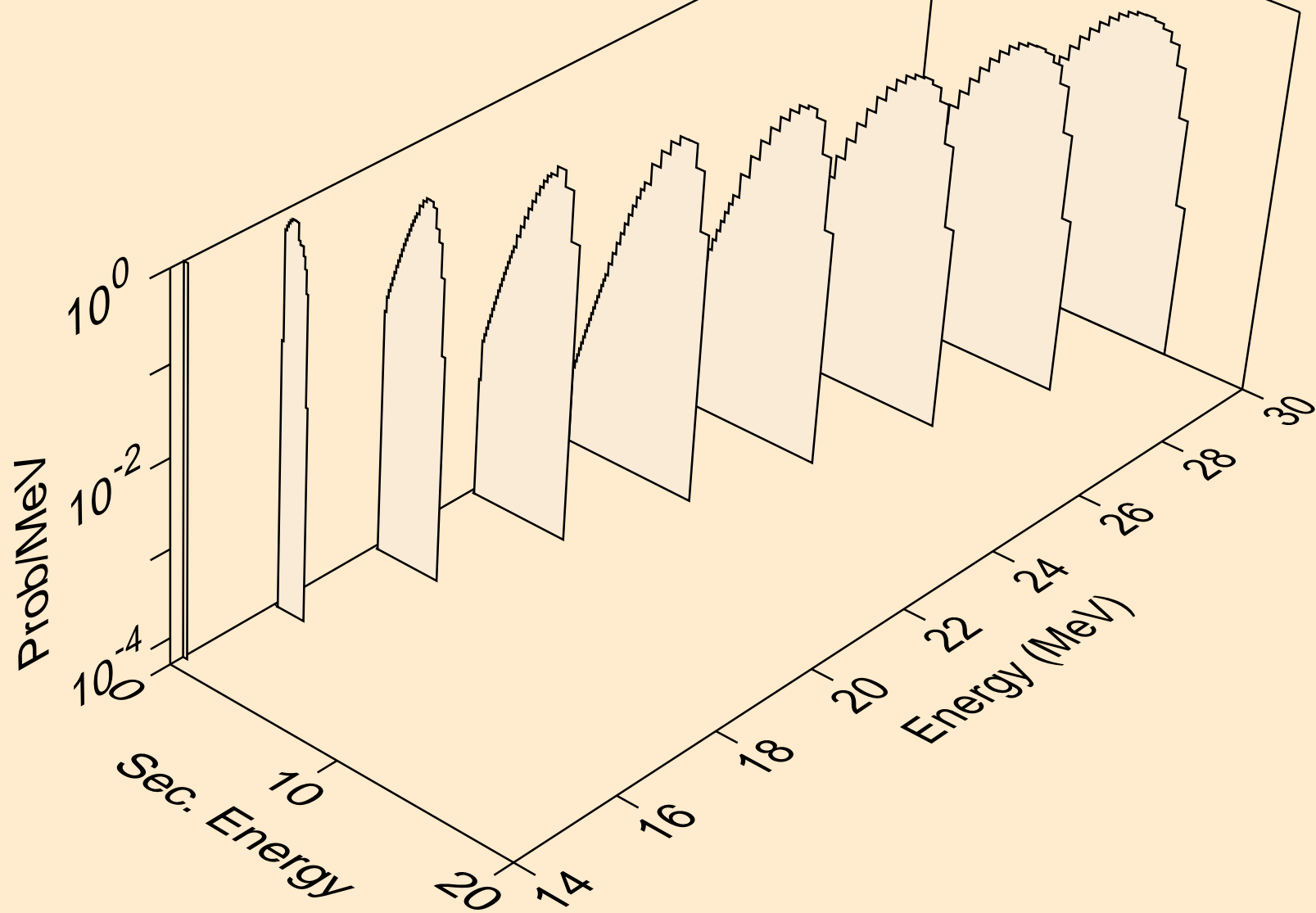
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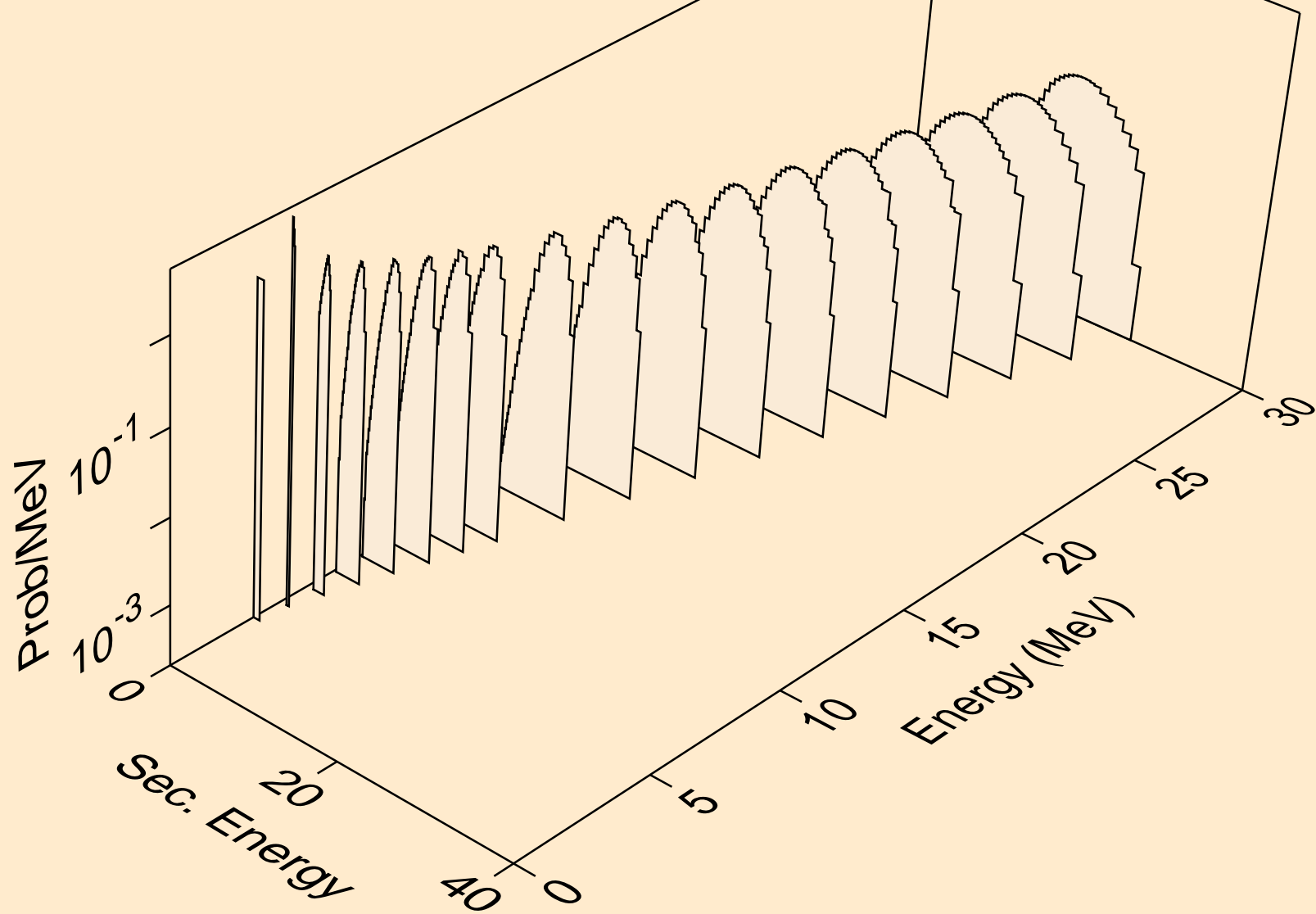
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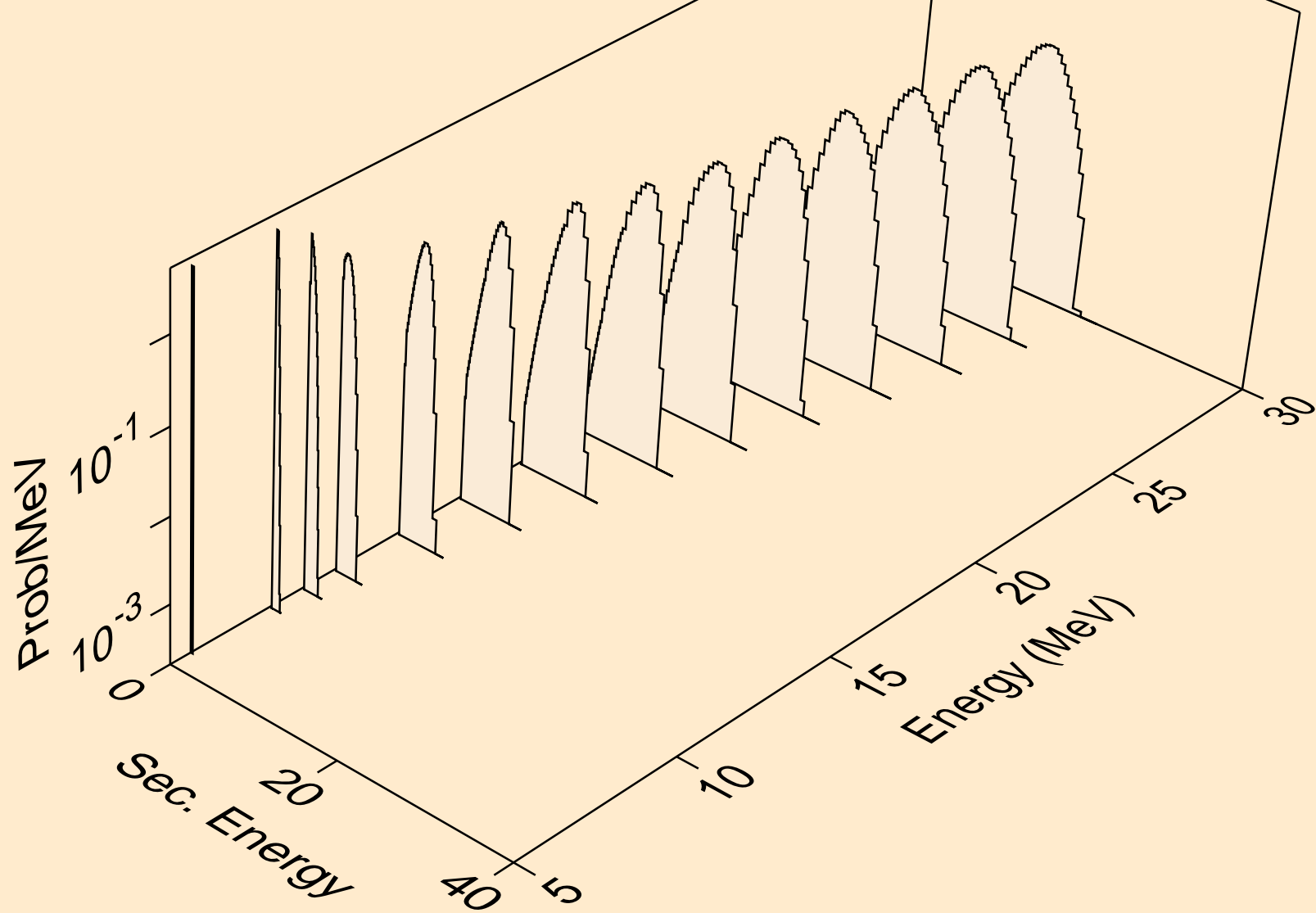
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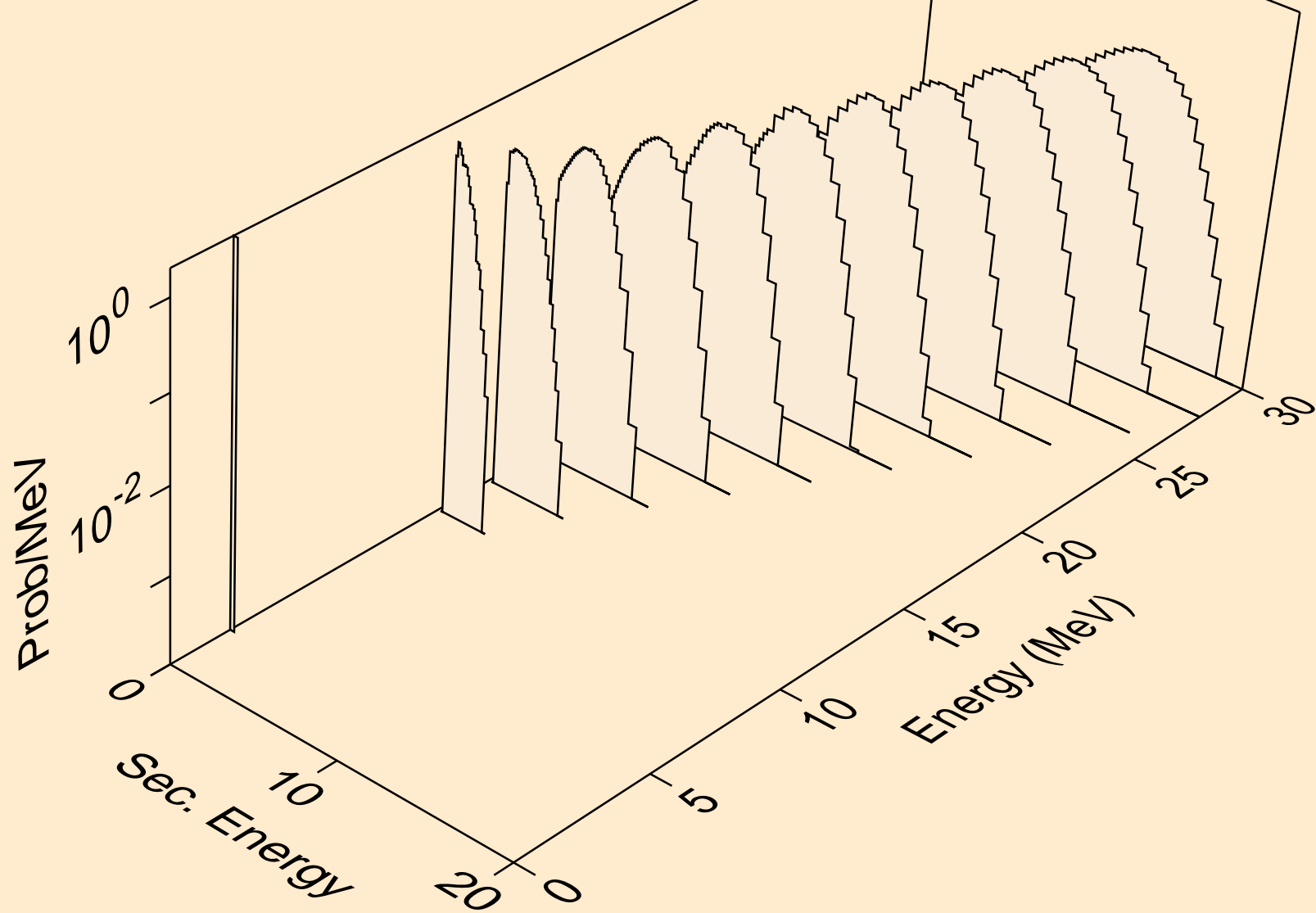
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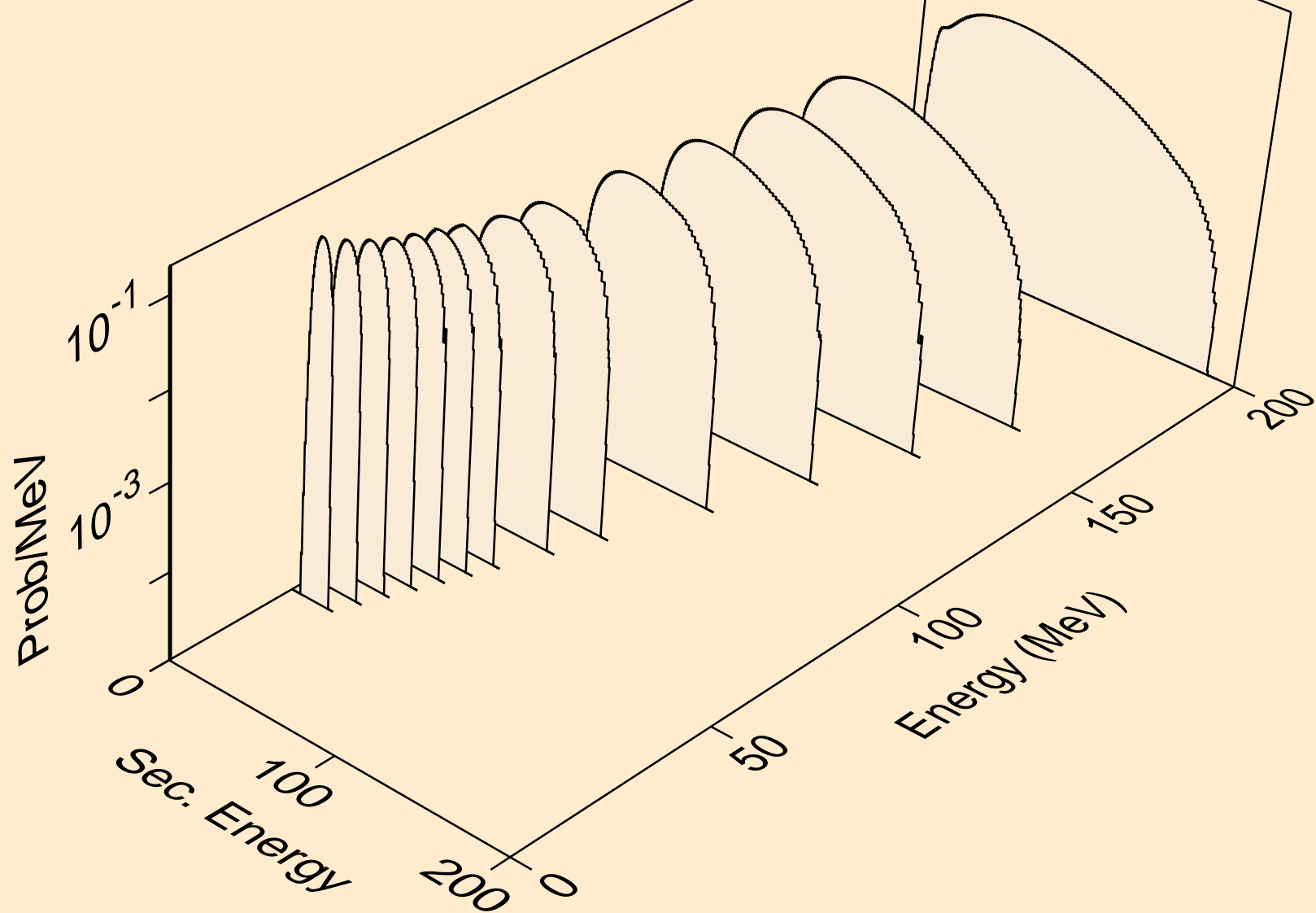
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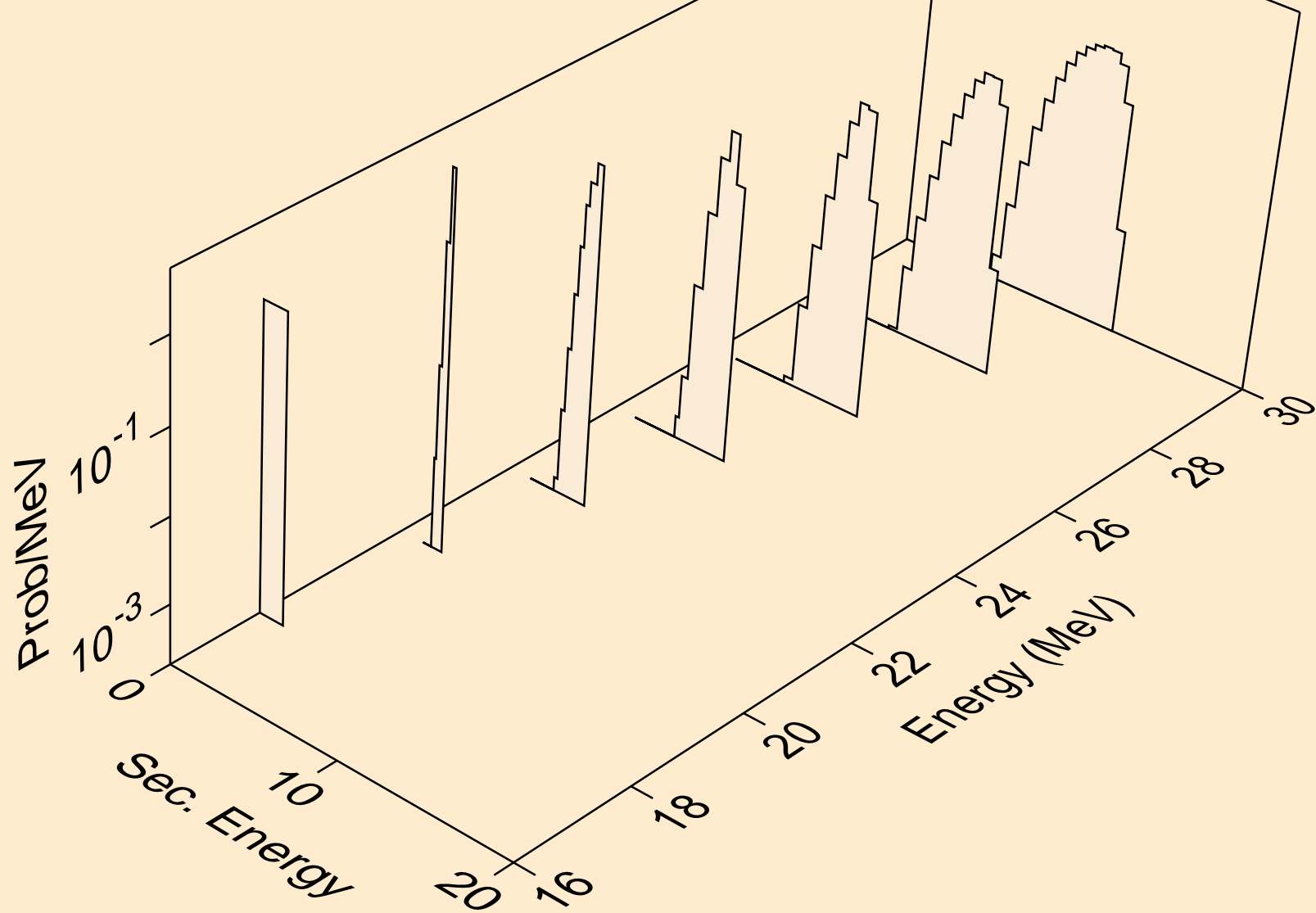
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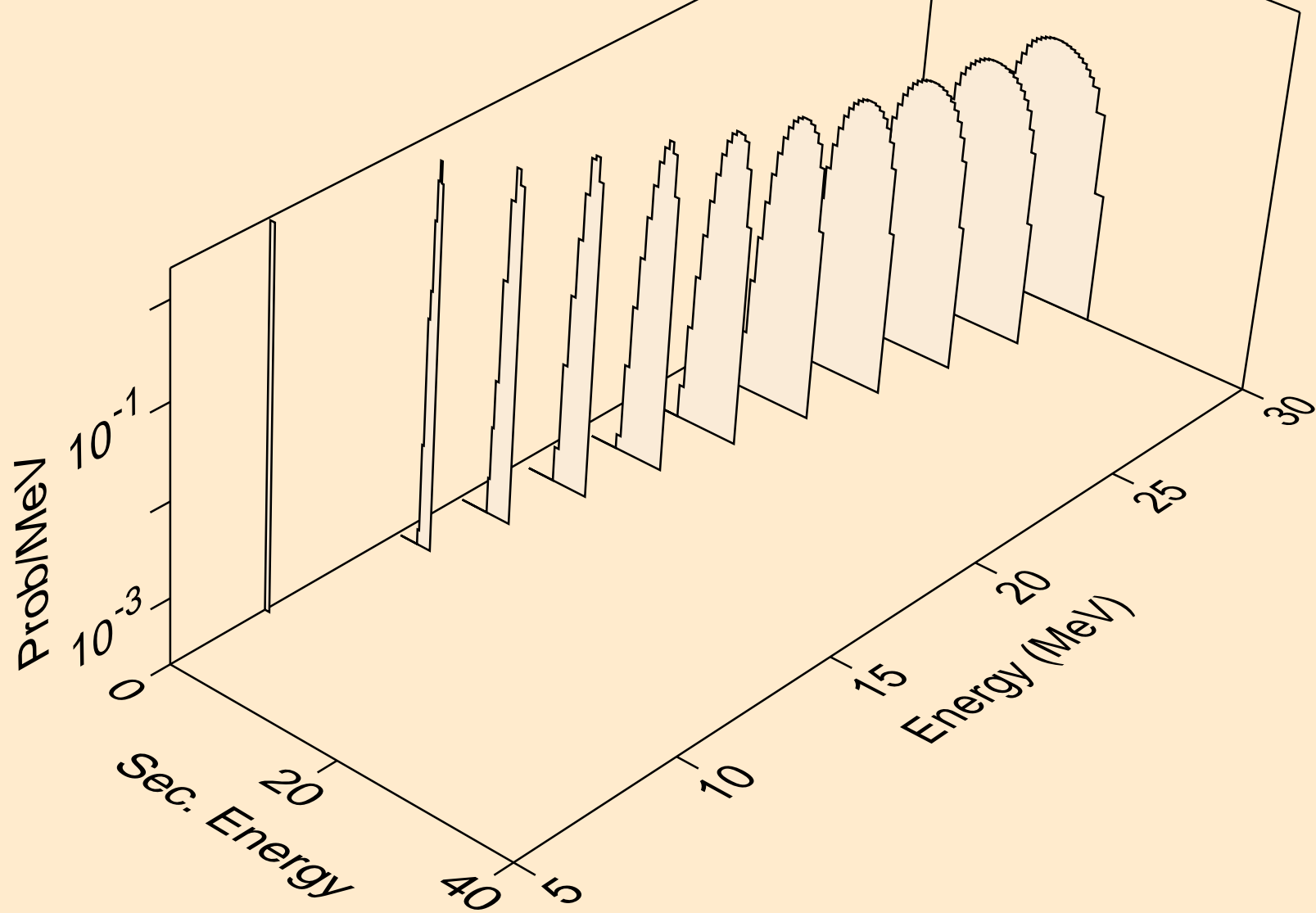
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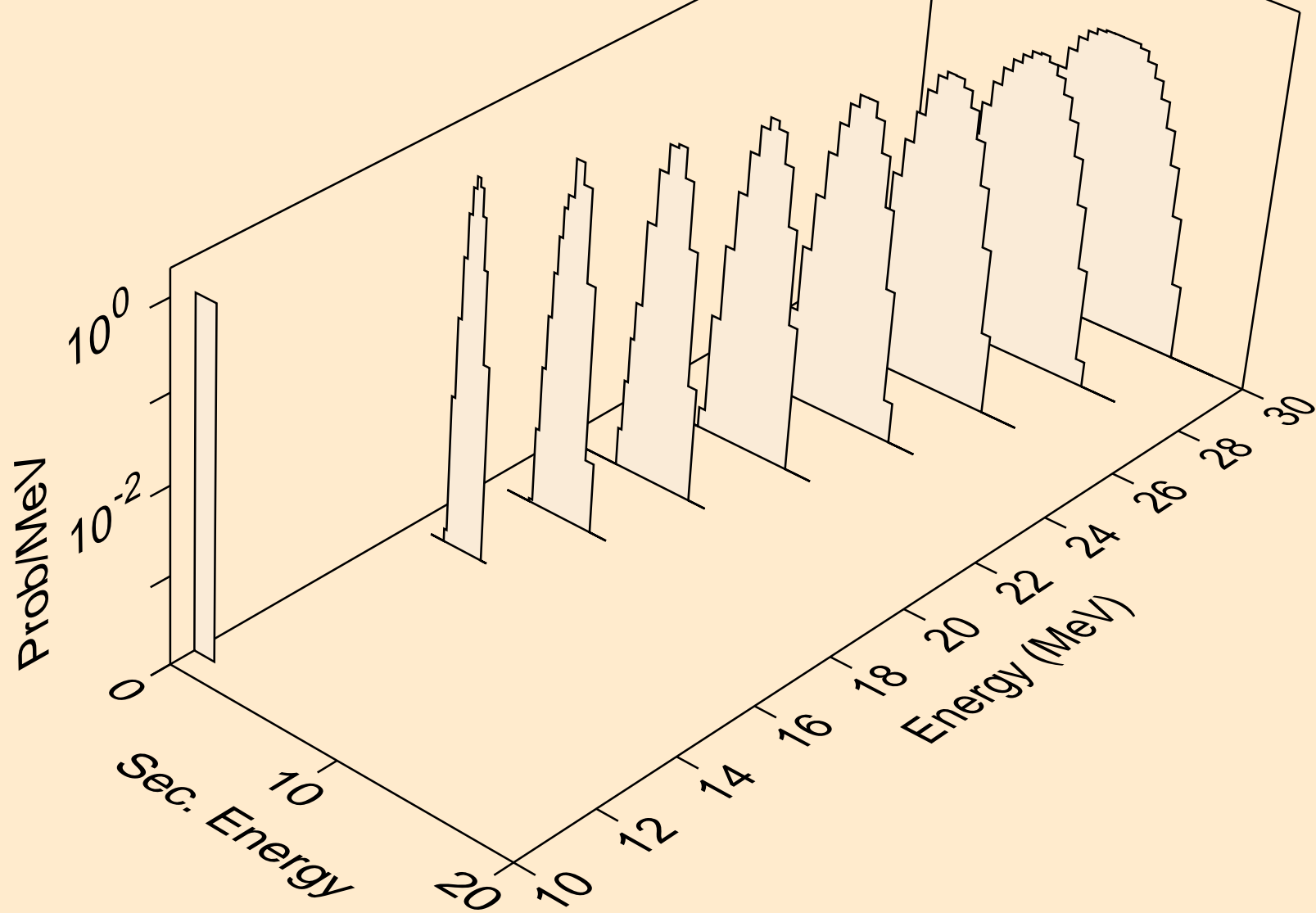
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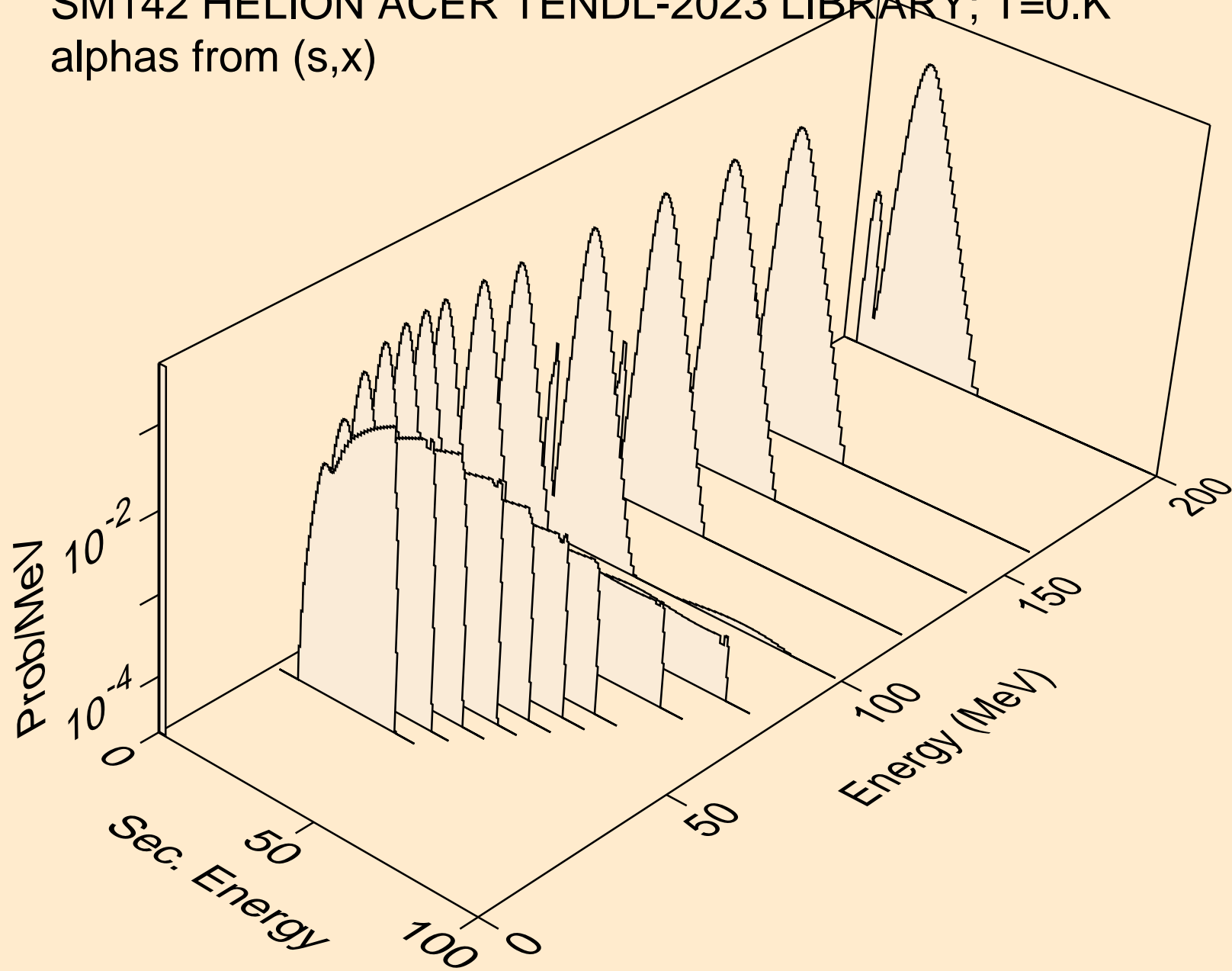
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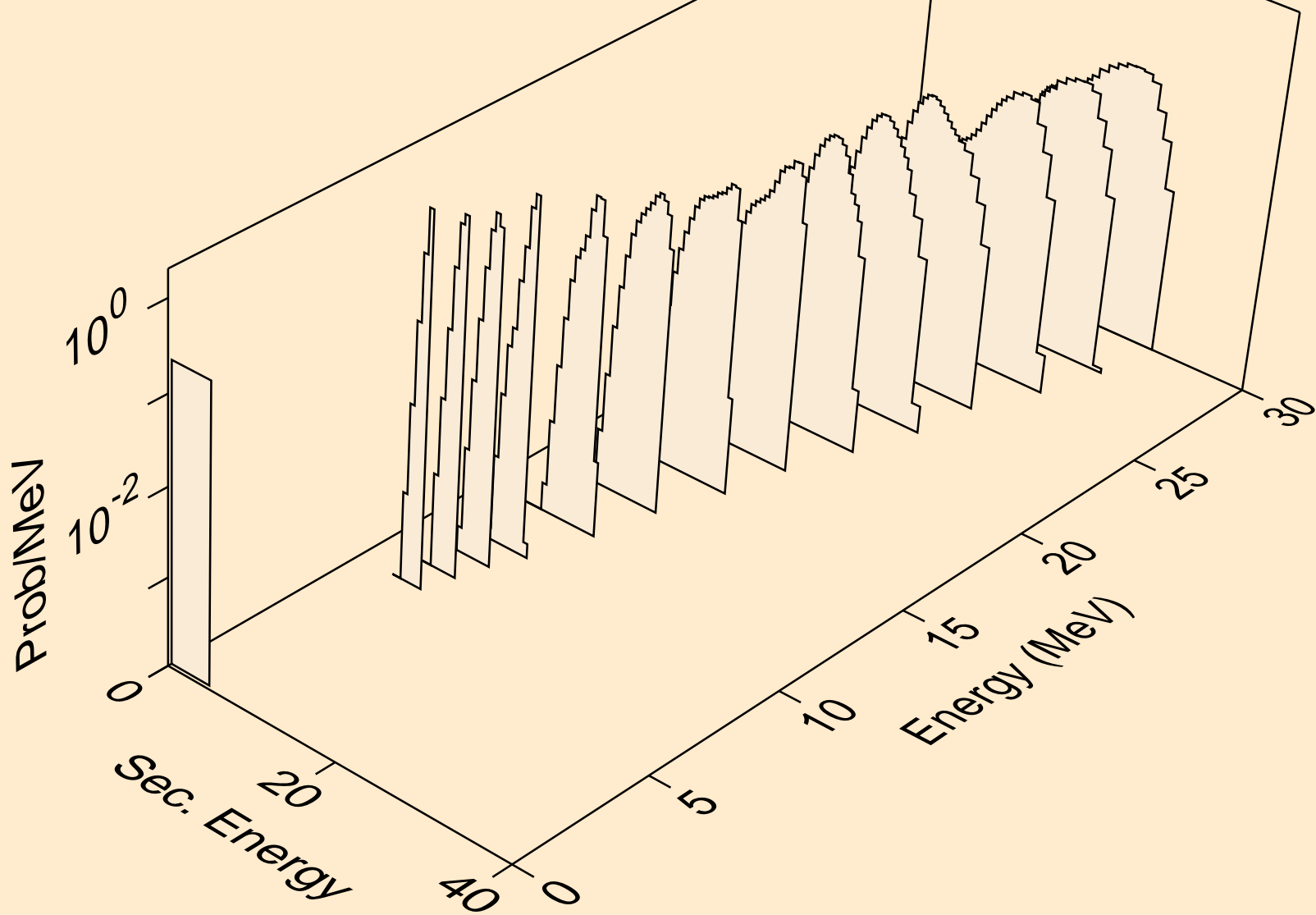
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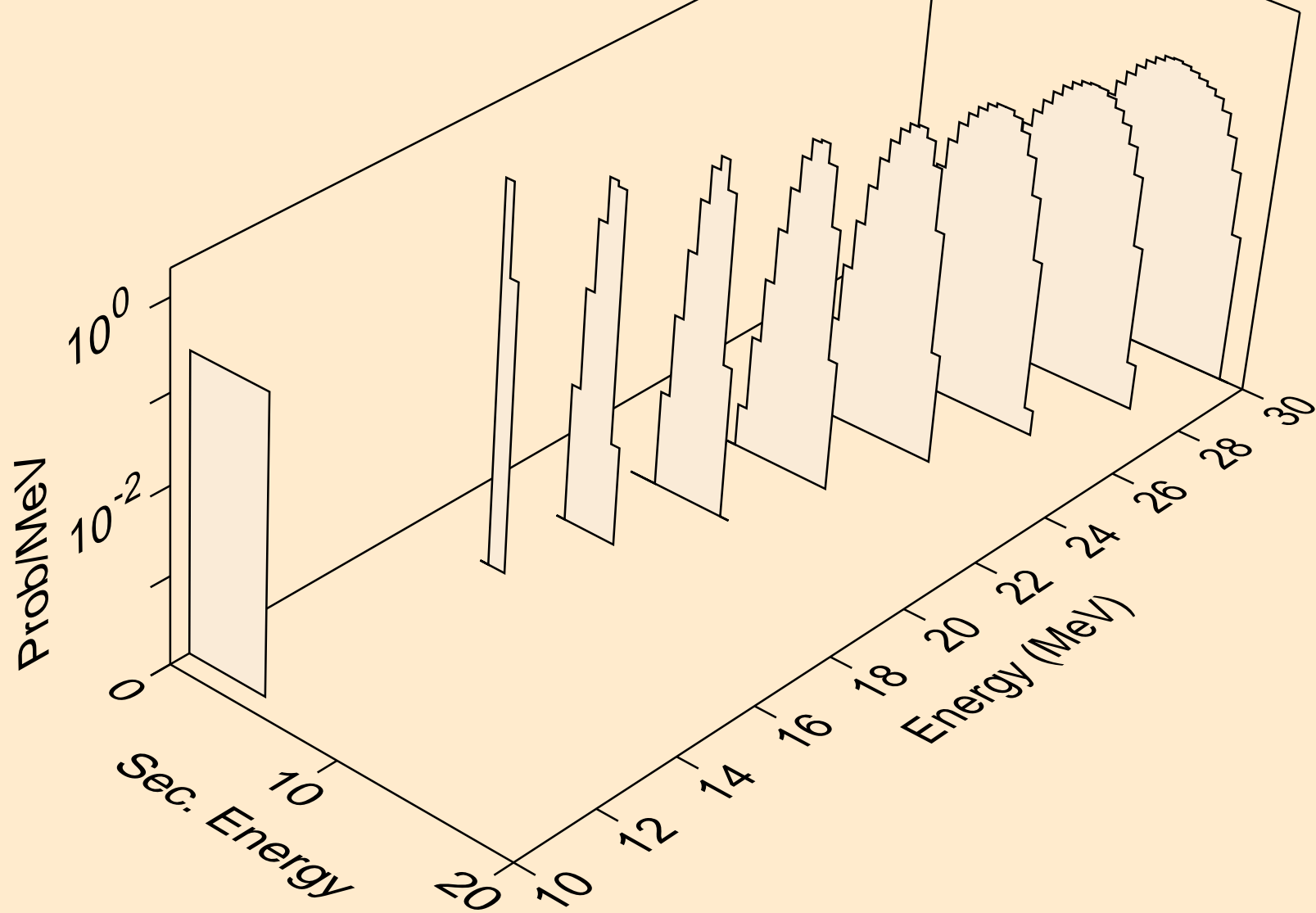
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alphas from (s,x)



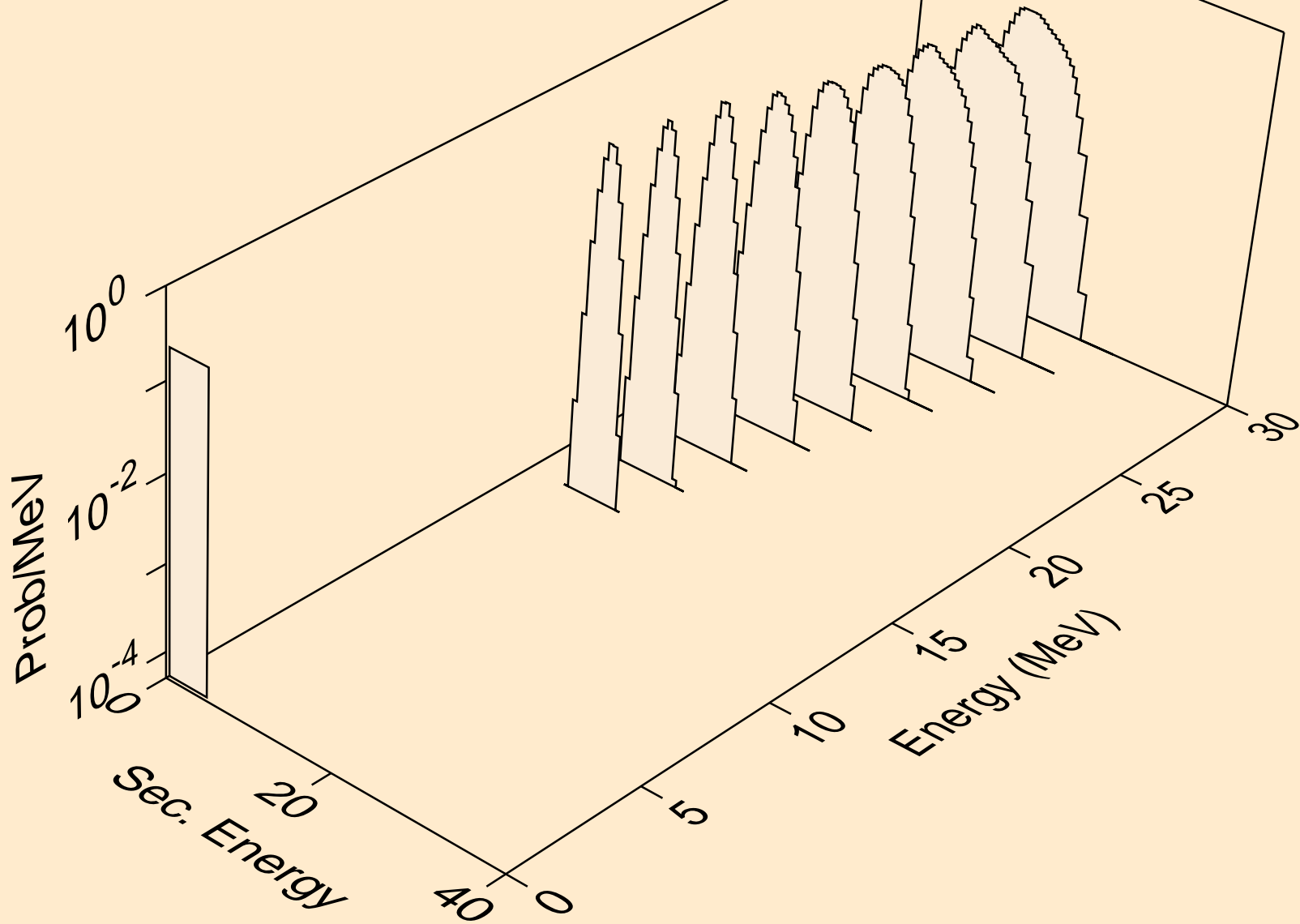
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alphas from (s,n\*)a



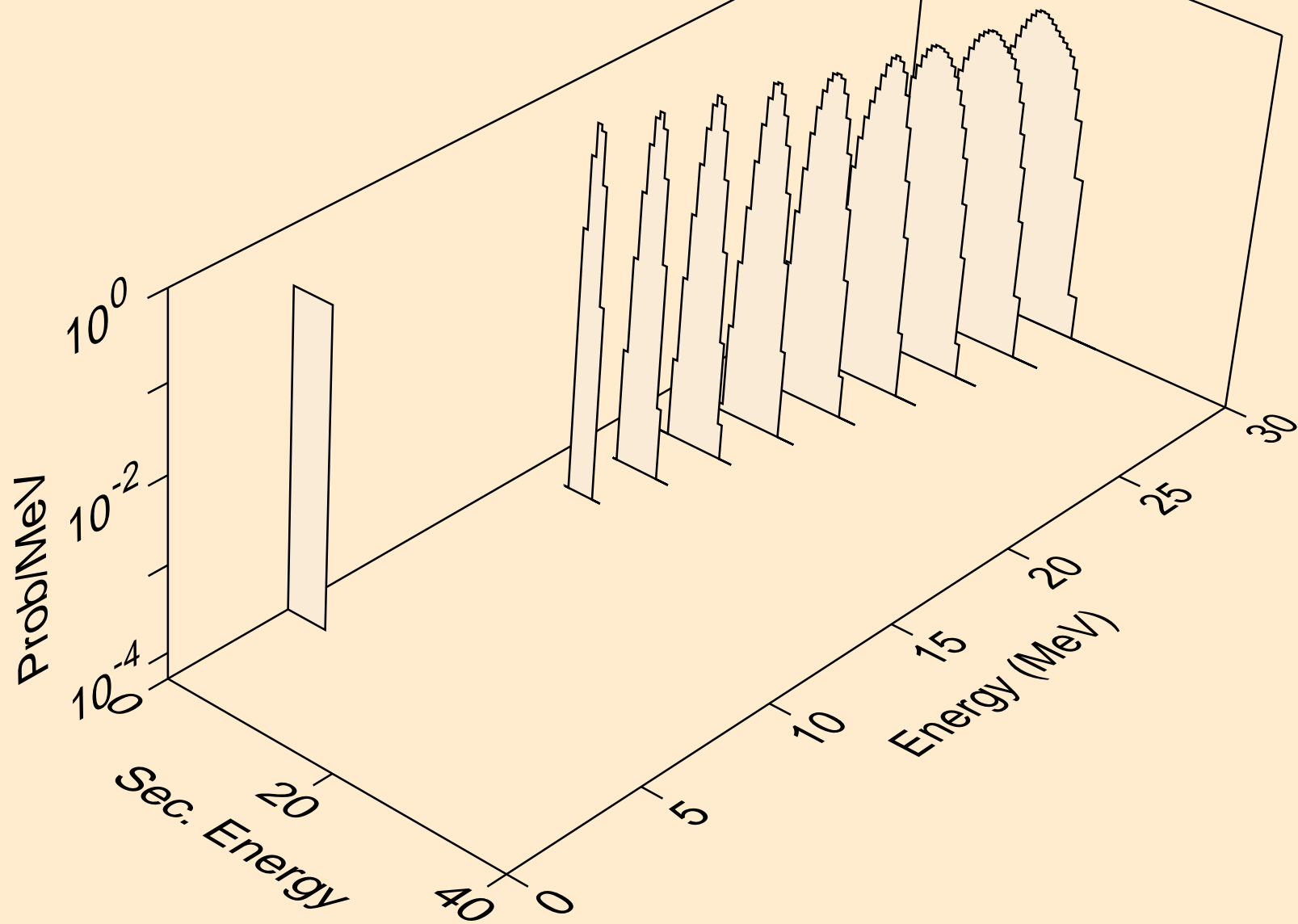
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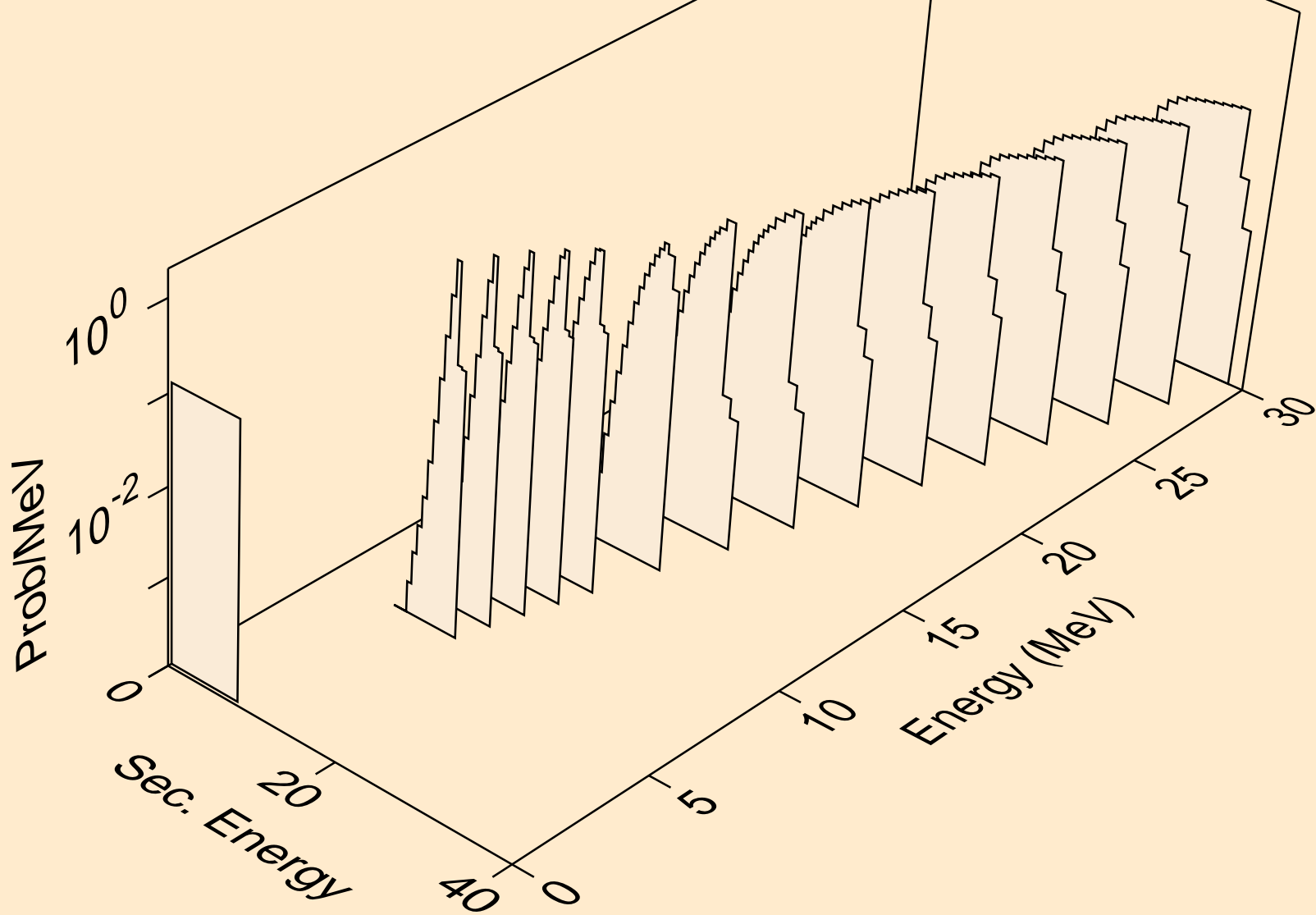
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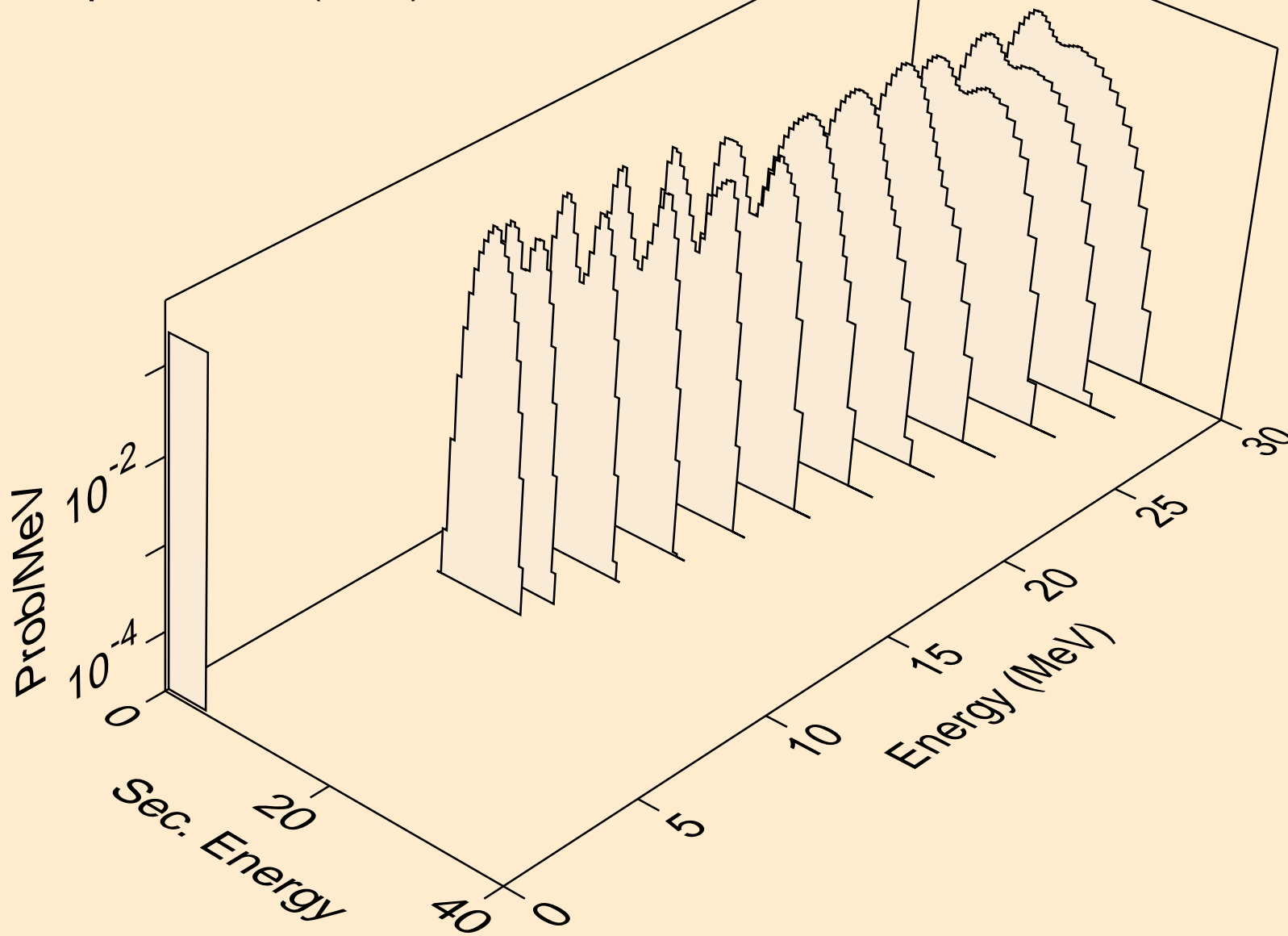
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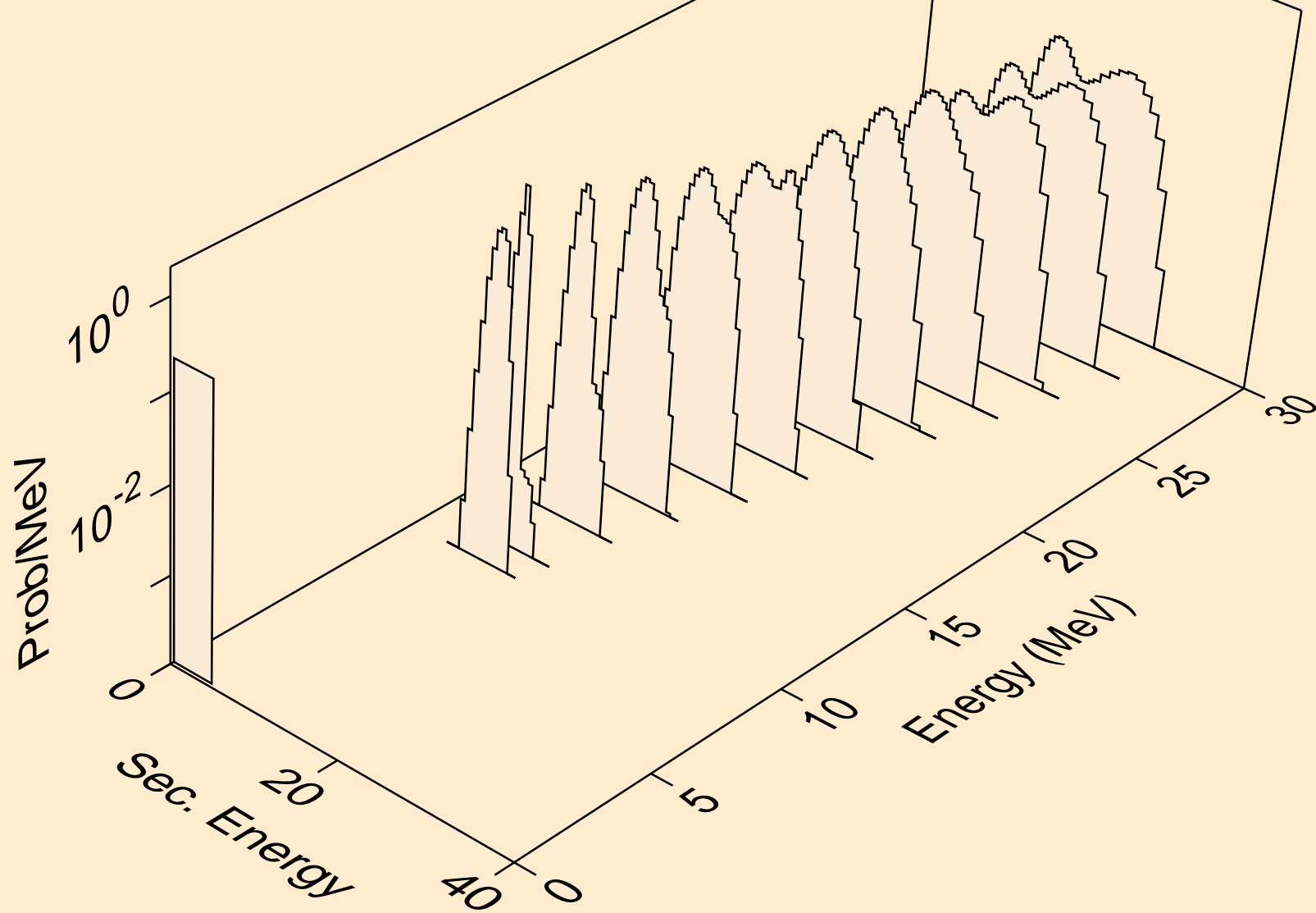
SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,a)



SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2a)



SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,pa)



SM142 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,da)

