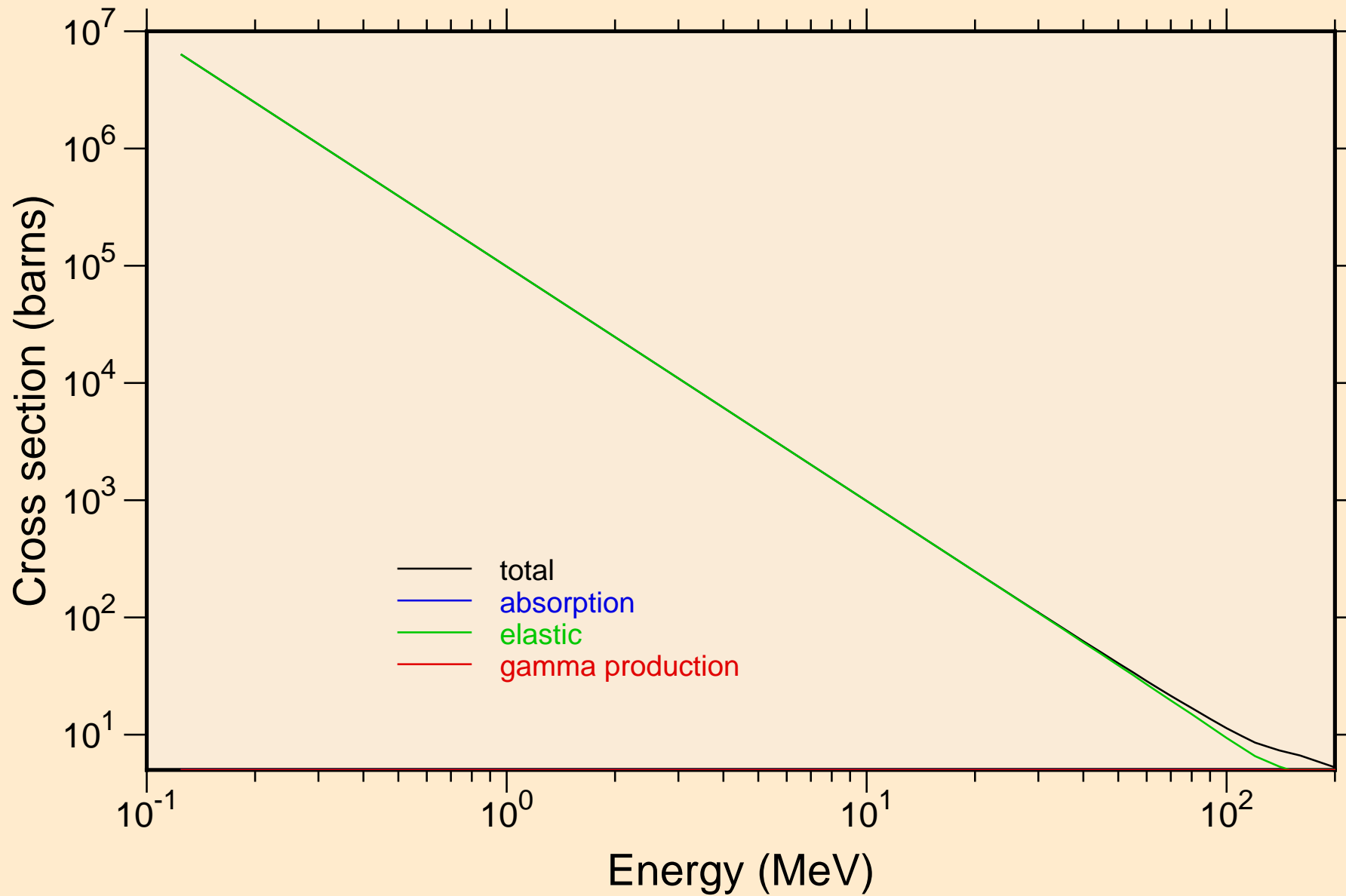


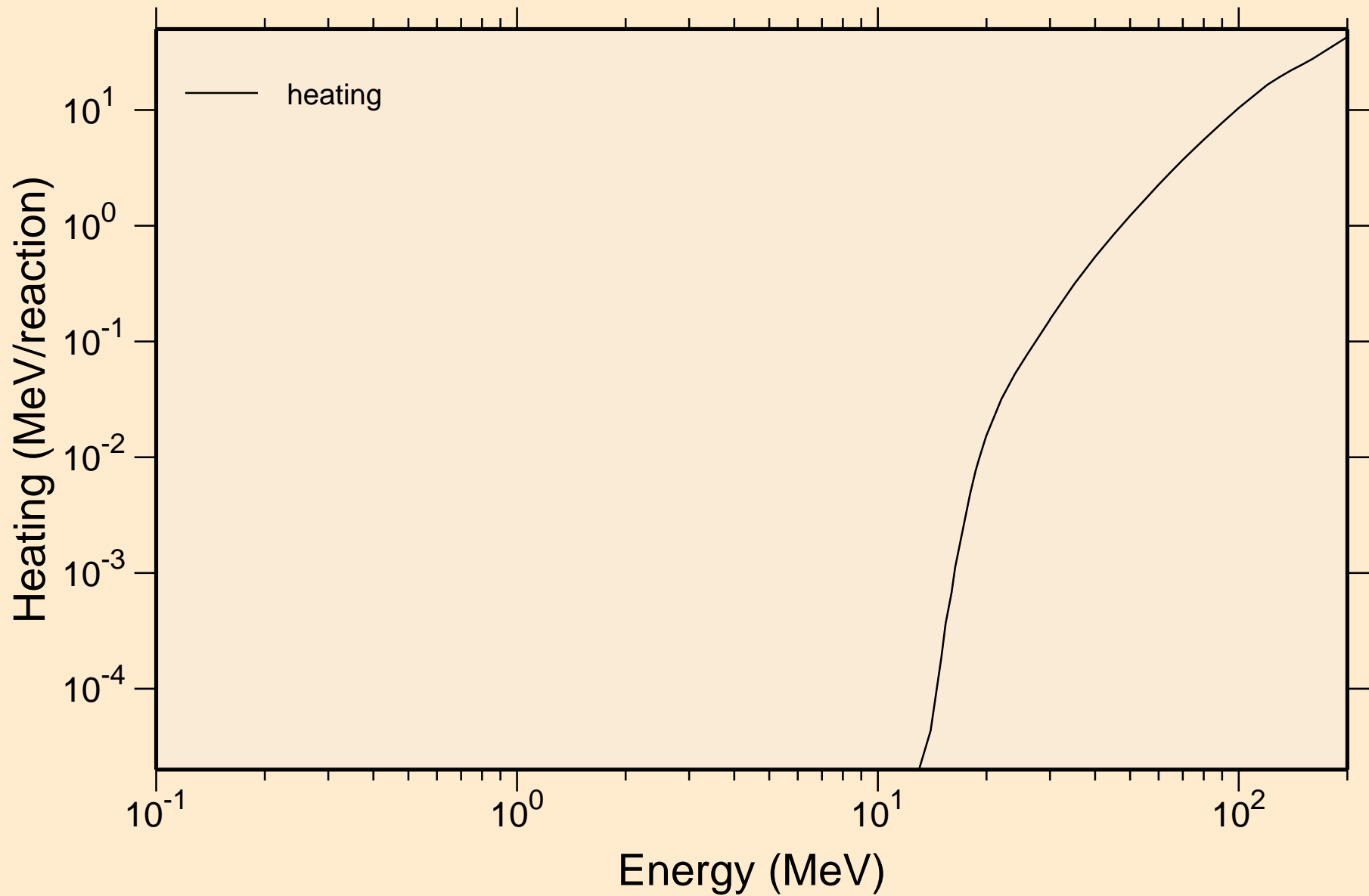
# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



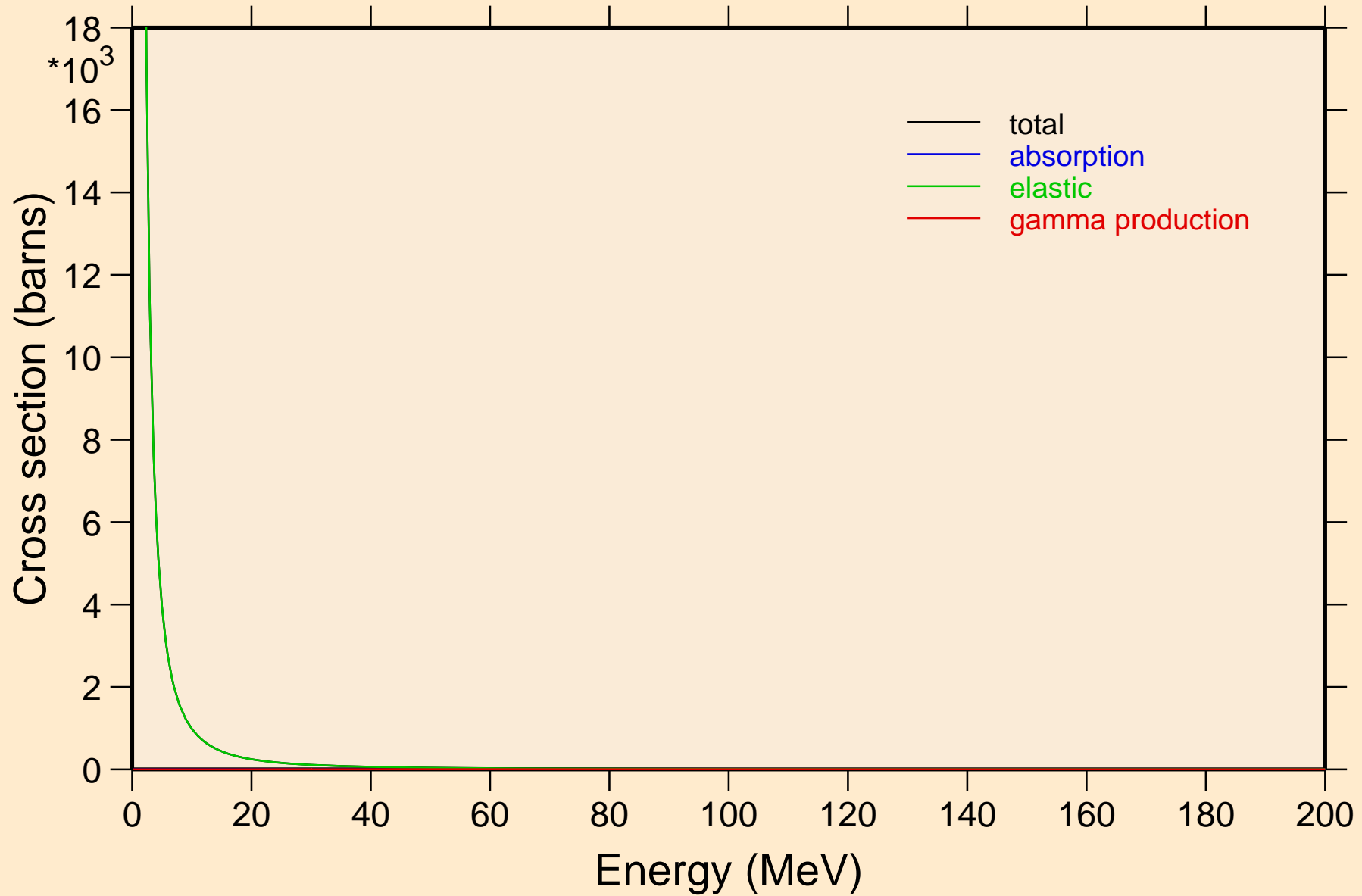
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

Heating



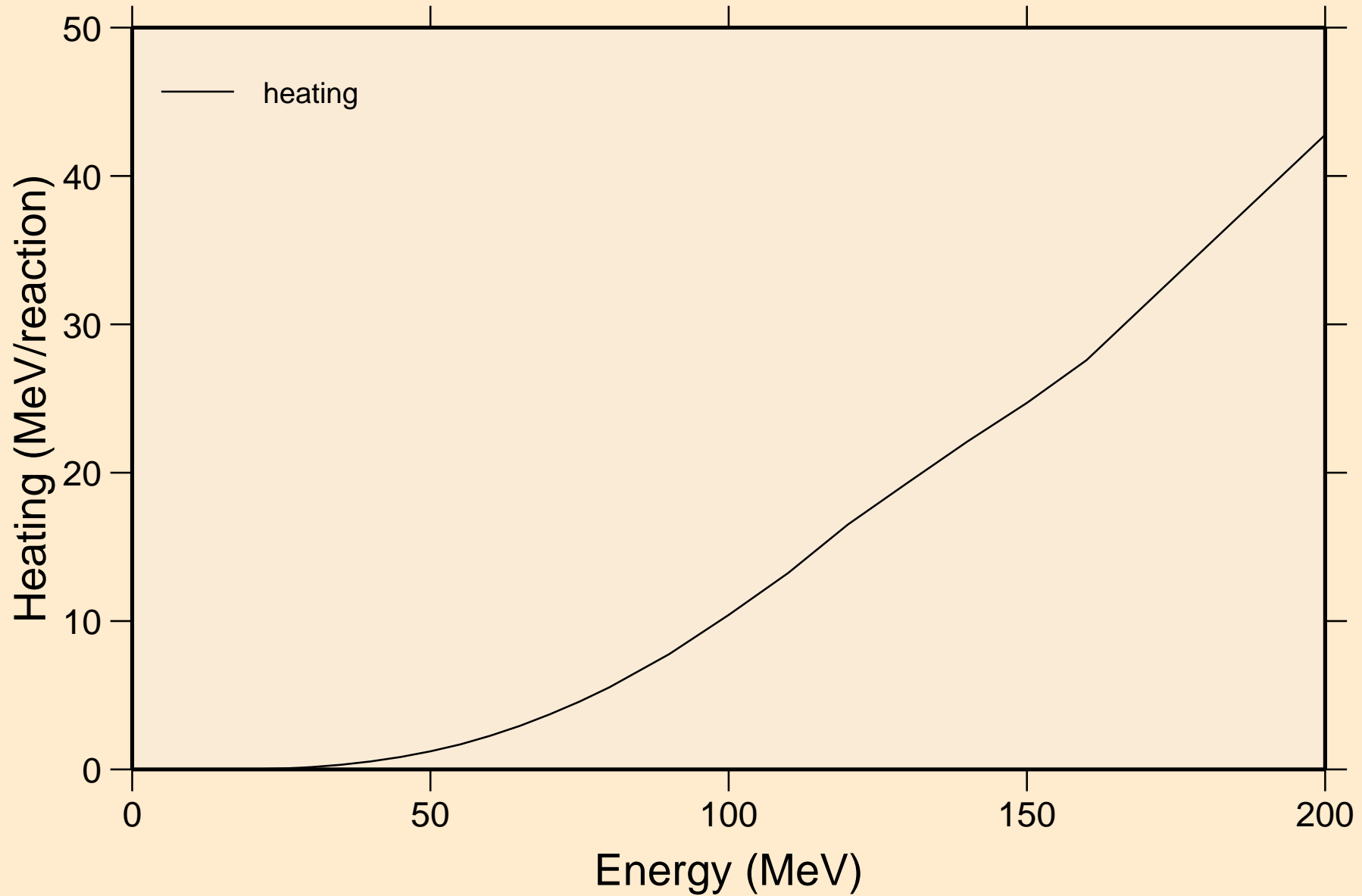
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## Principal cross sections

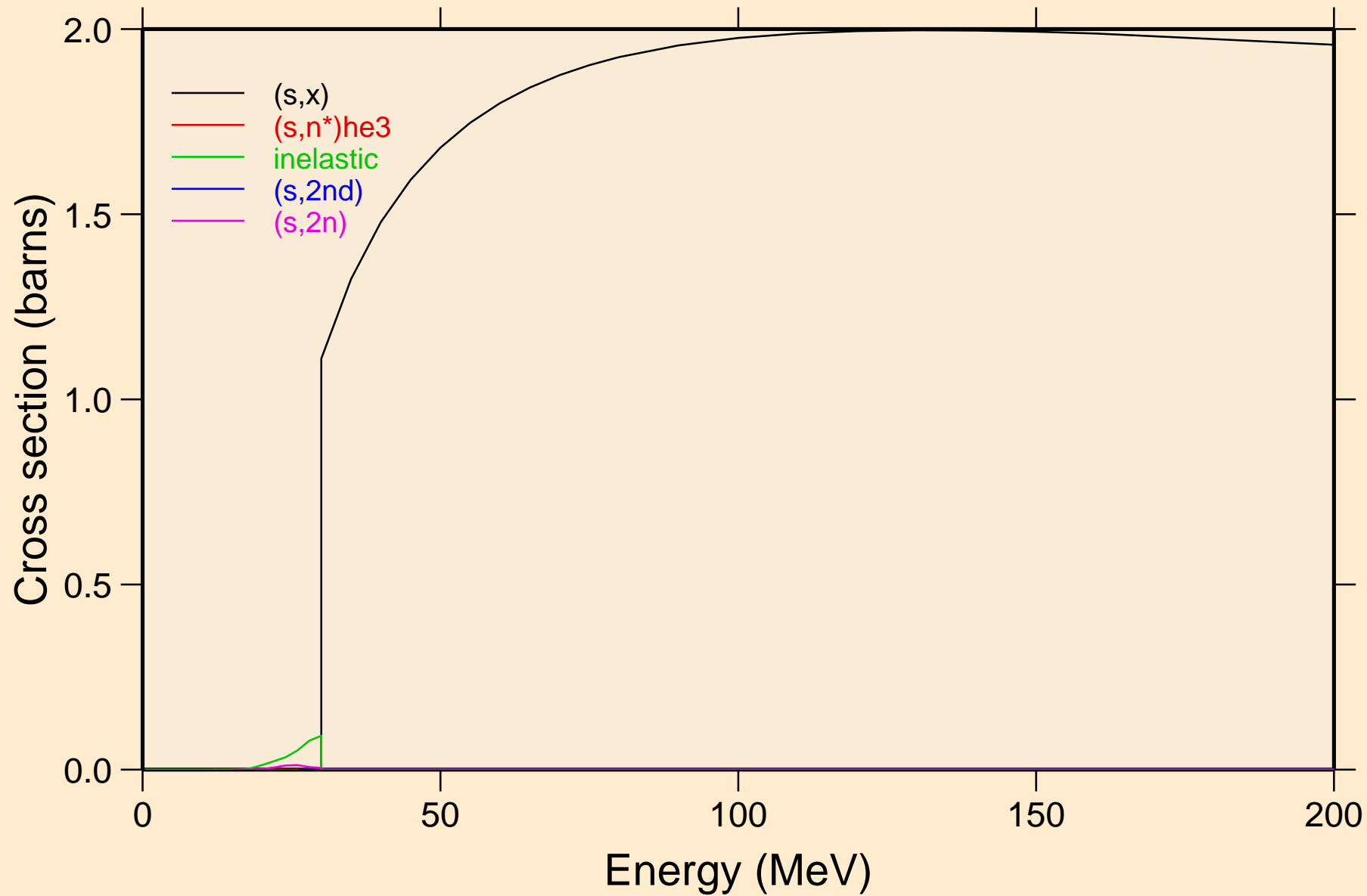


# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

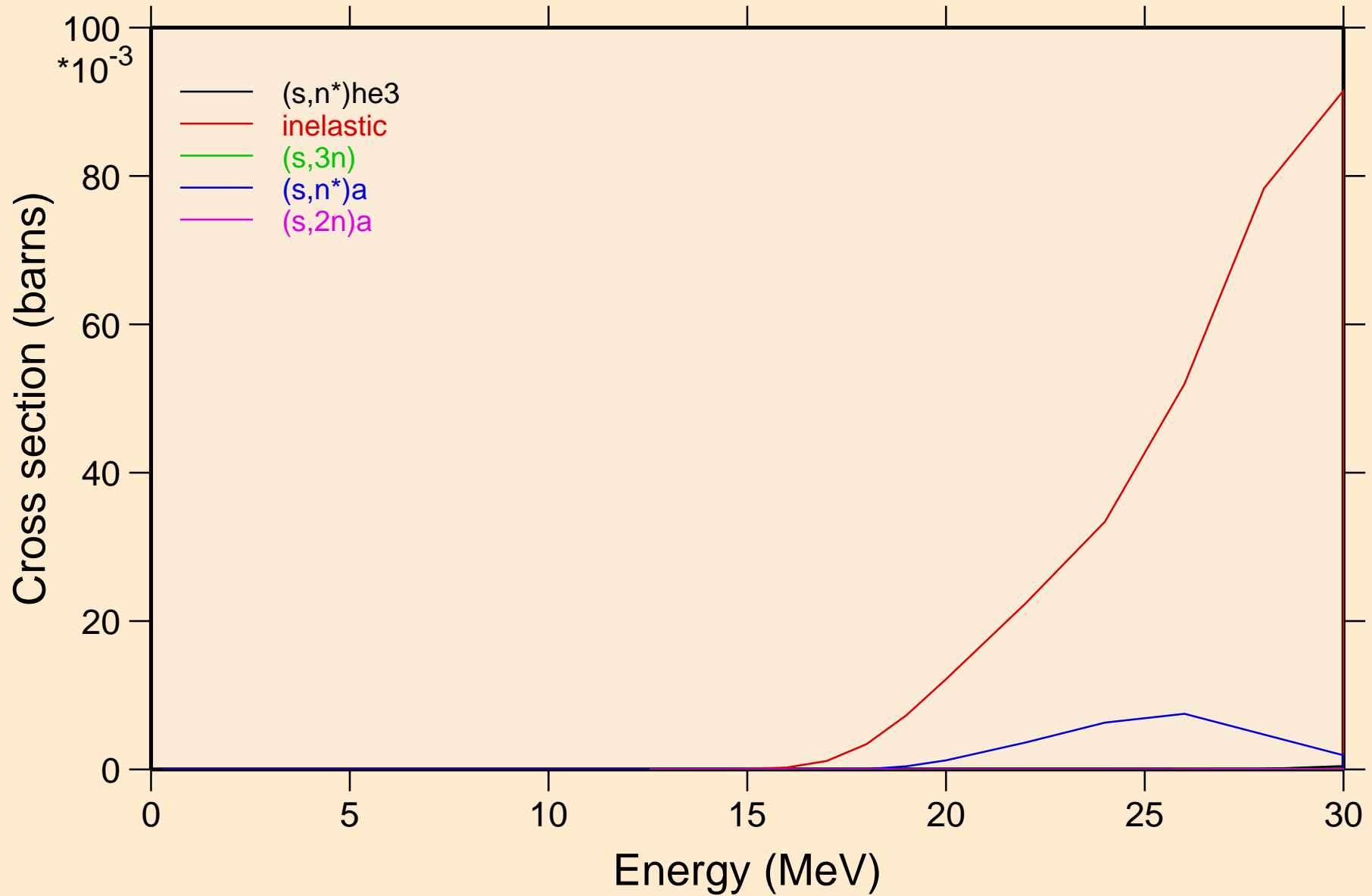
## Heating



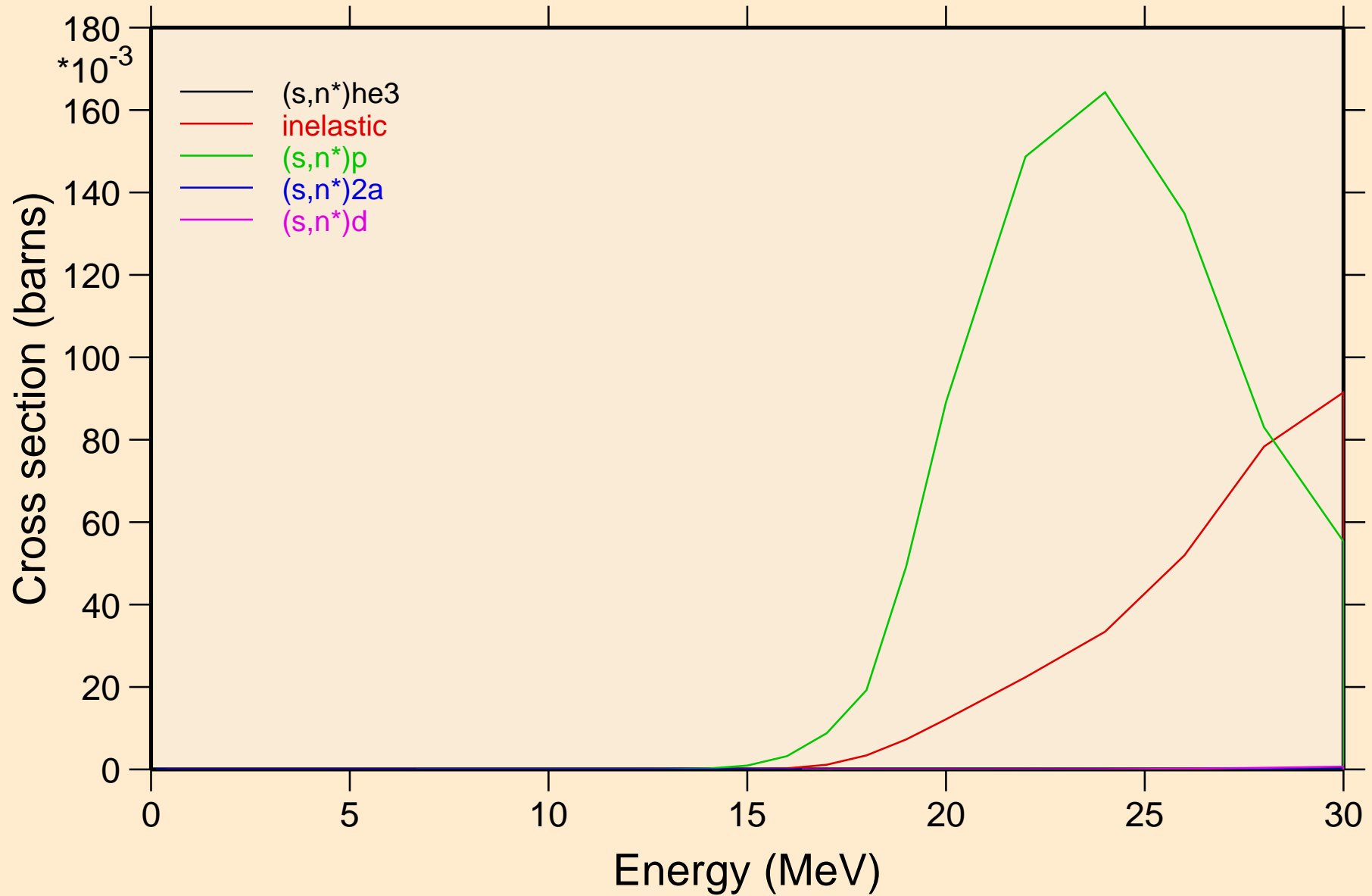
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



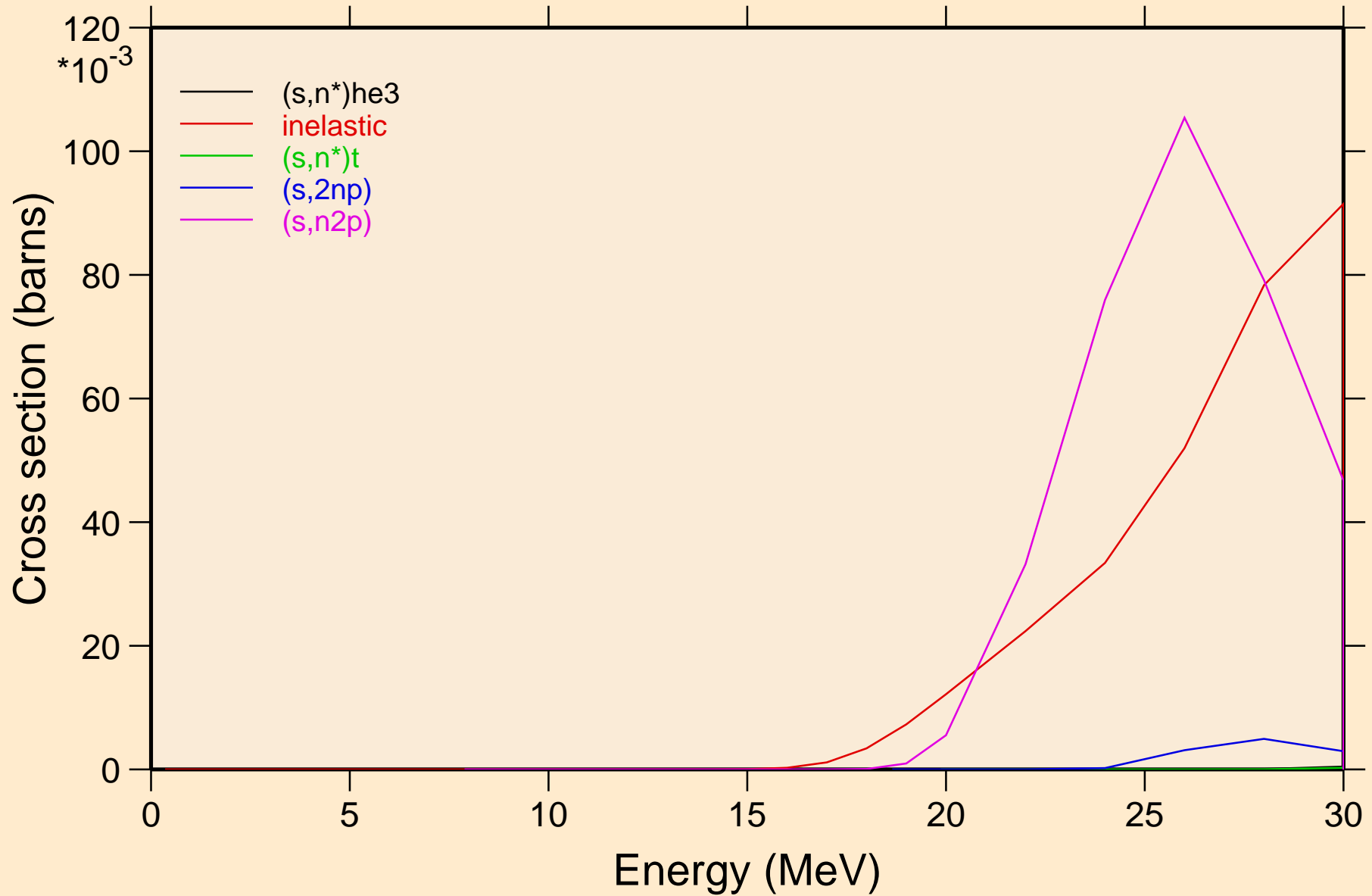
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



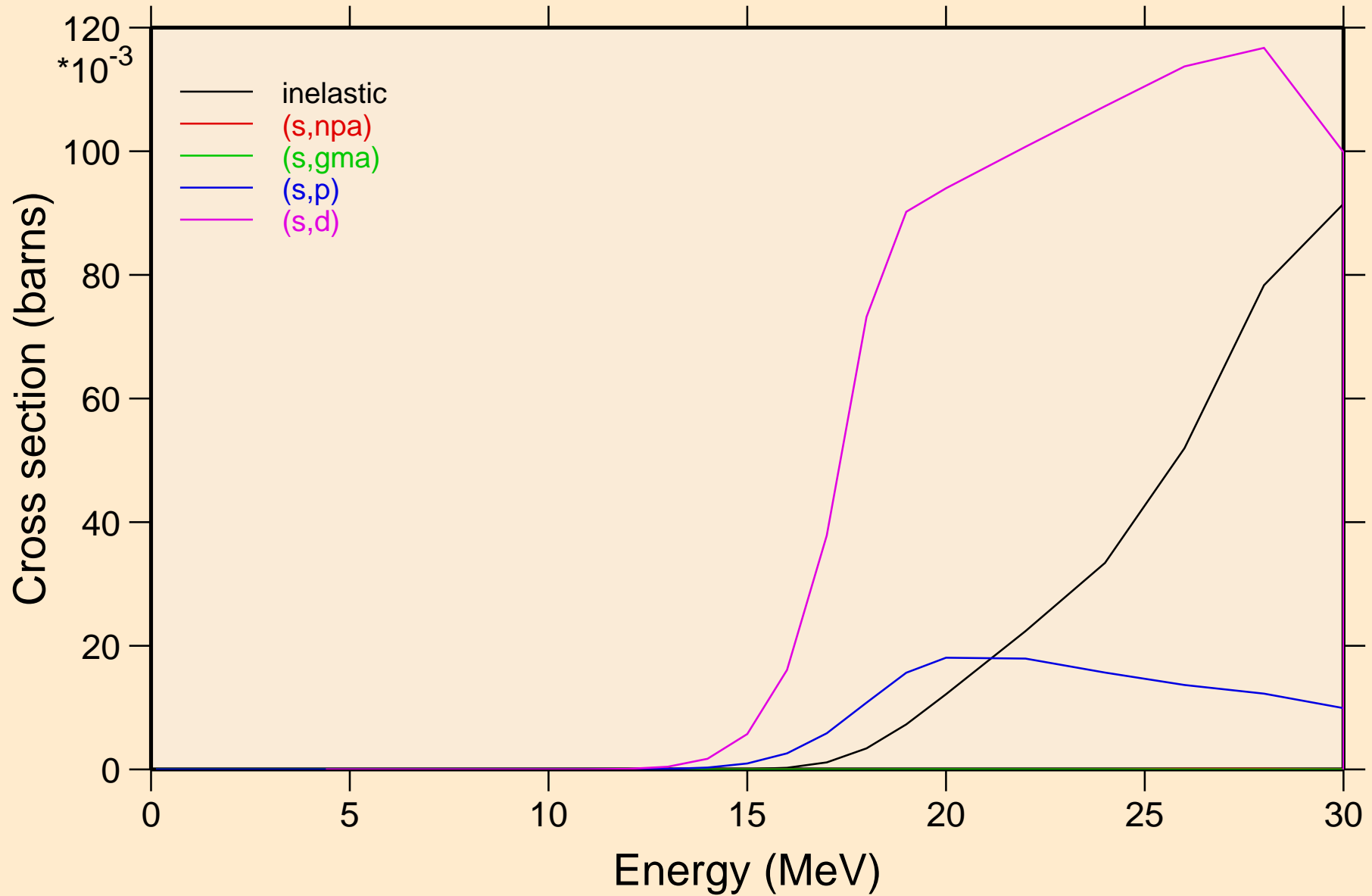
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions





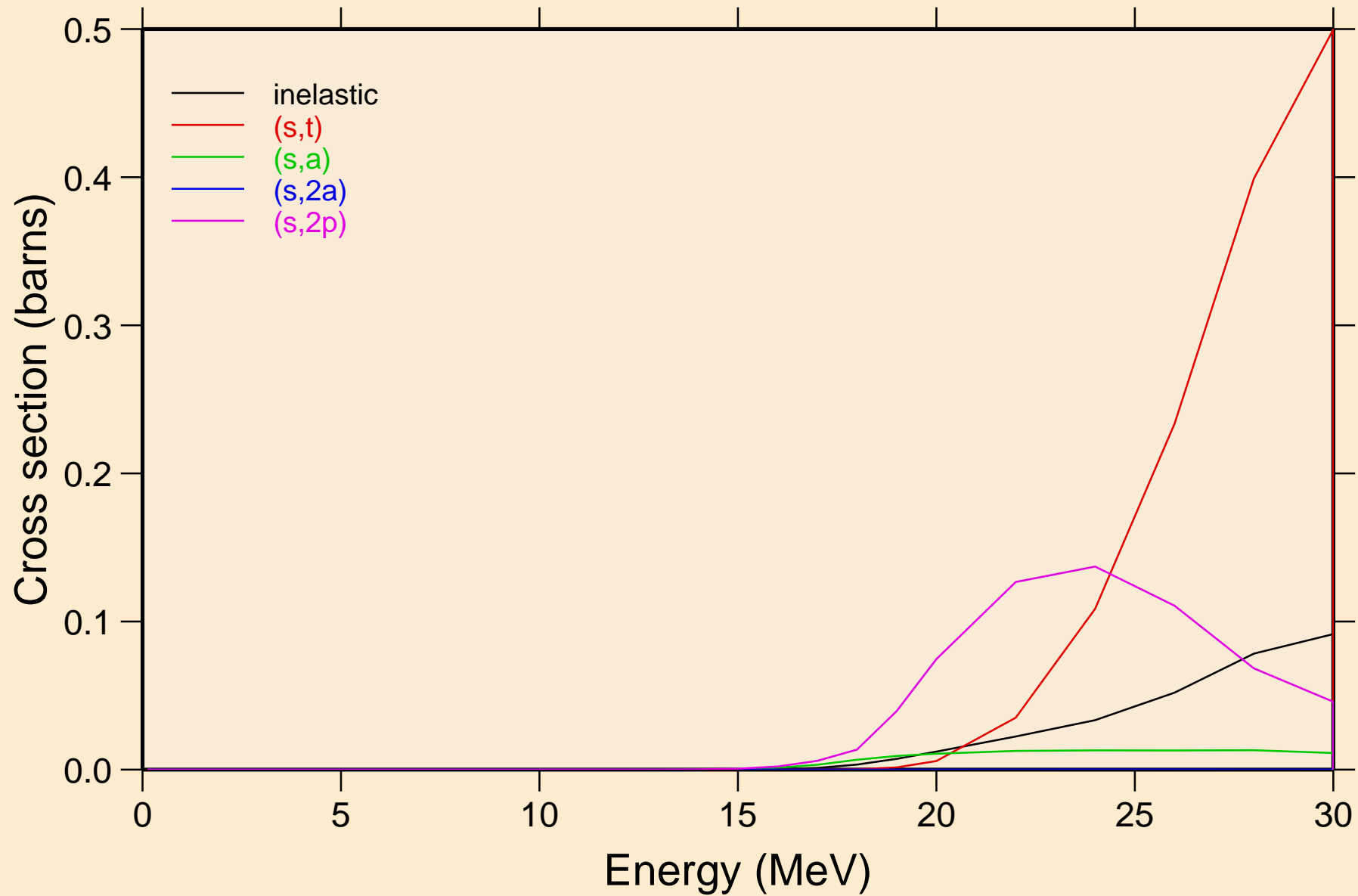
# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions



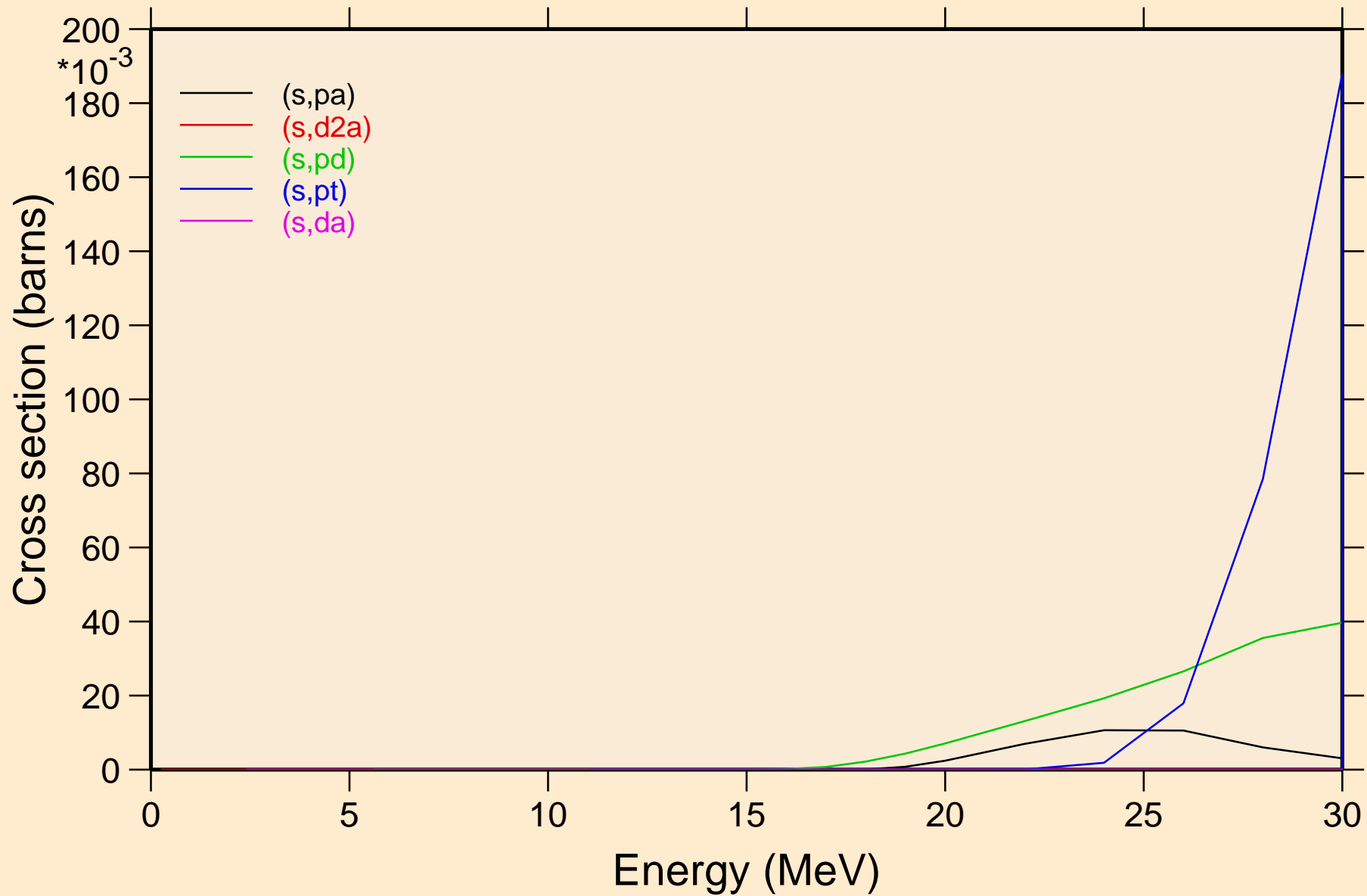
# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

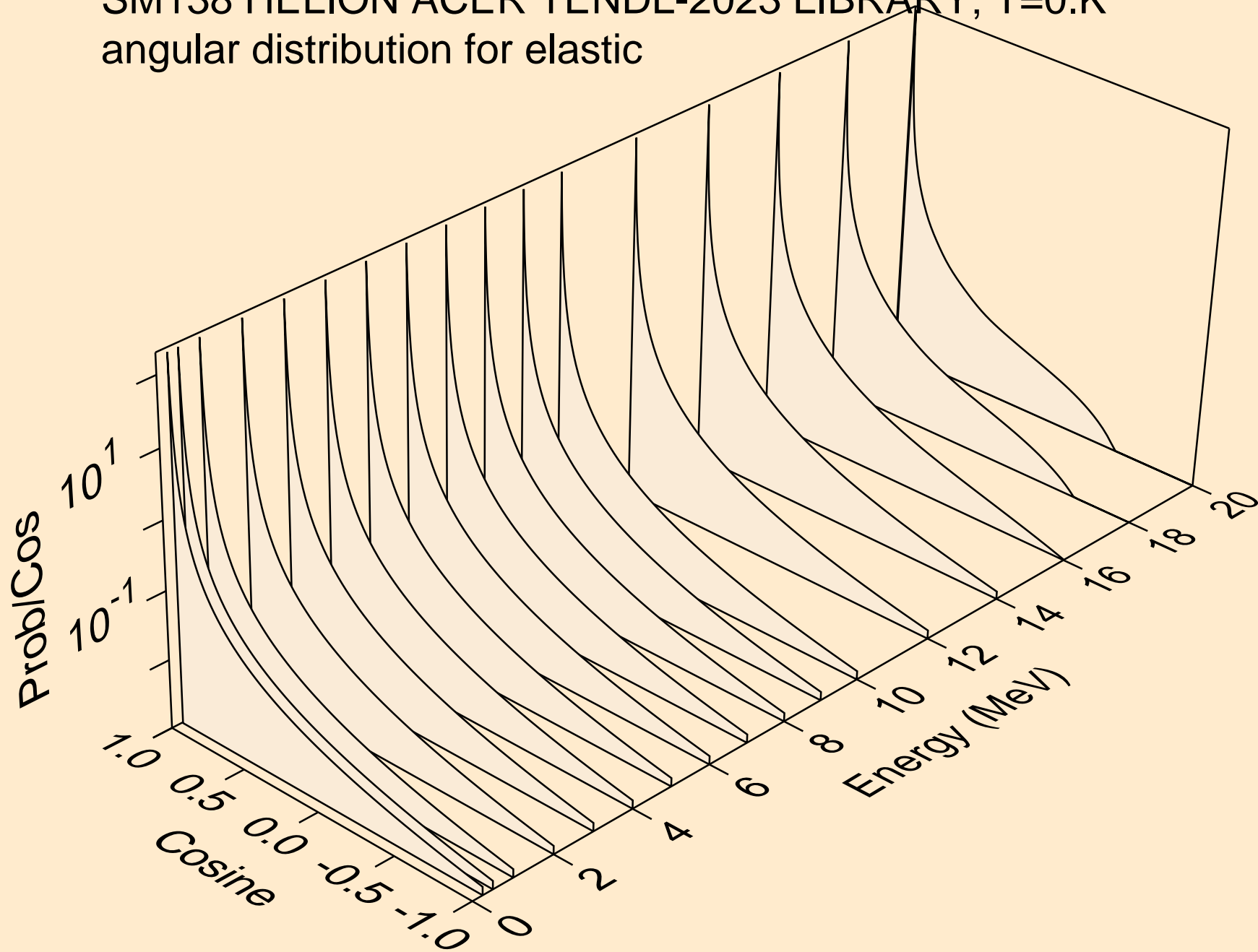


# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

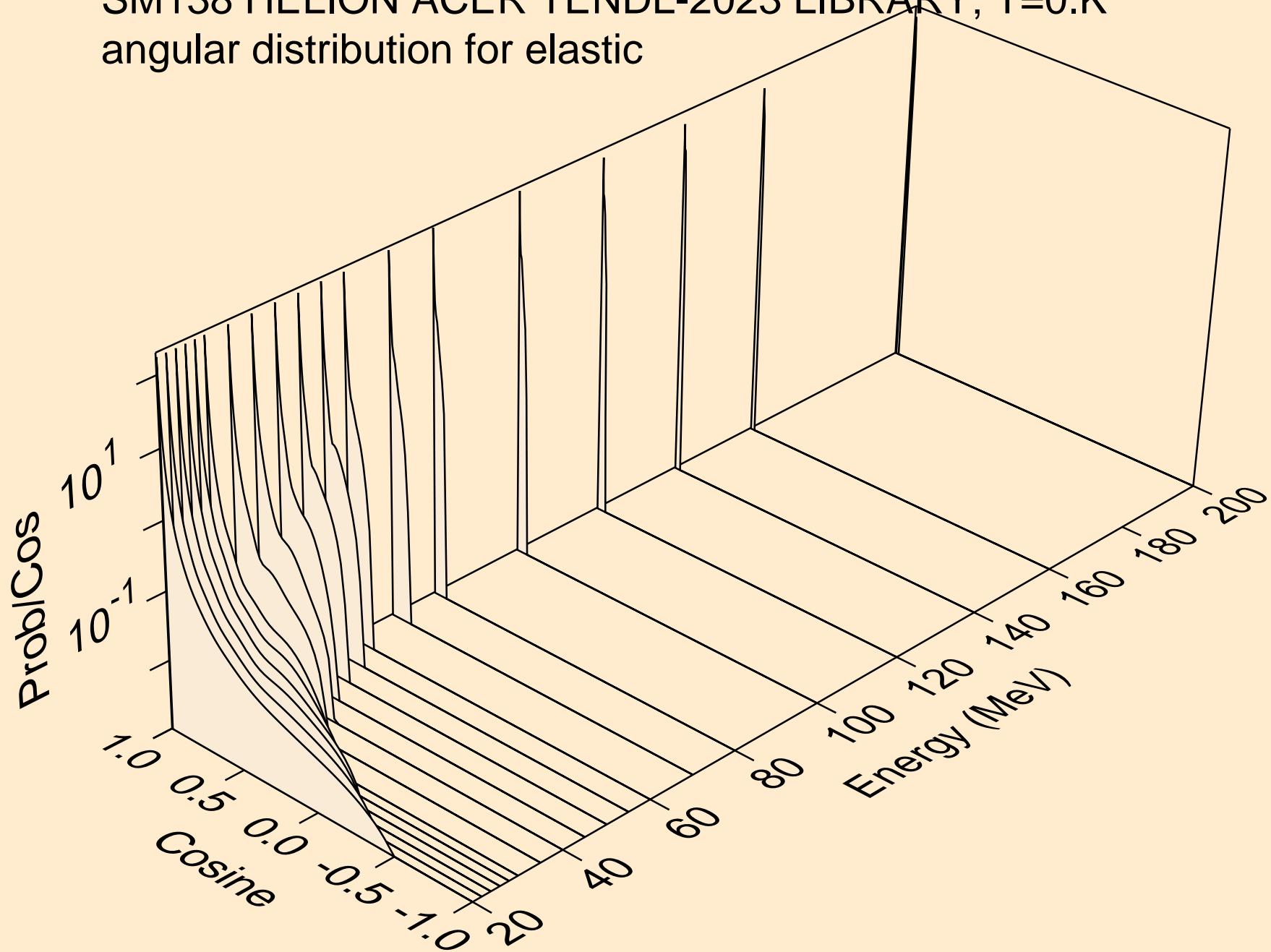
## Threshold reactions



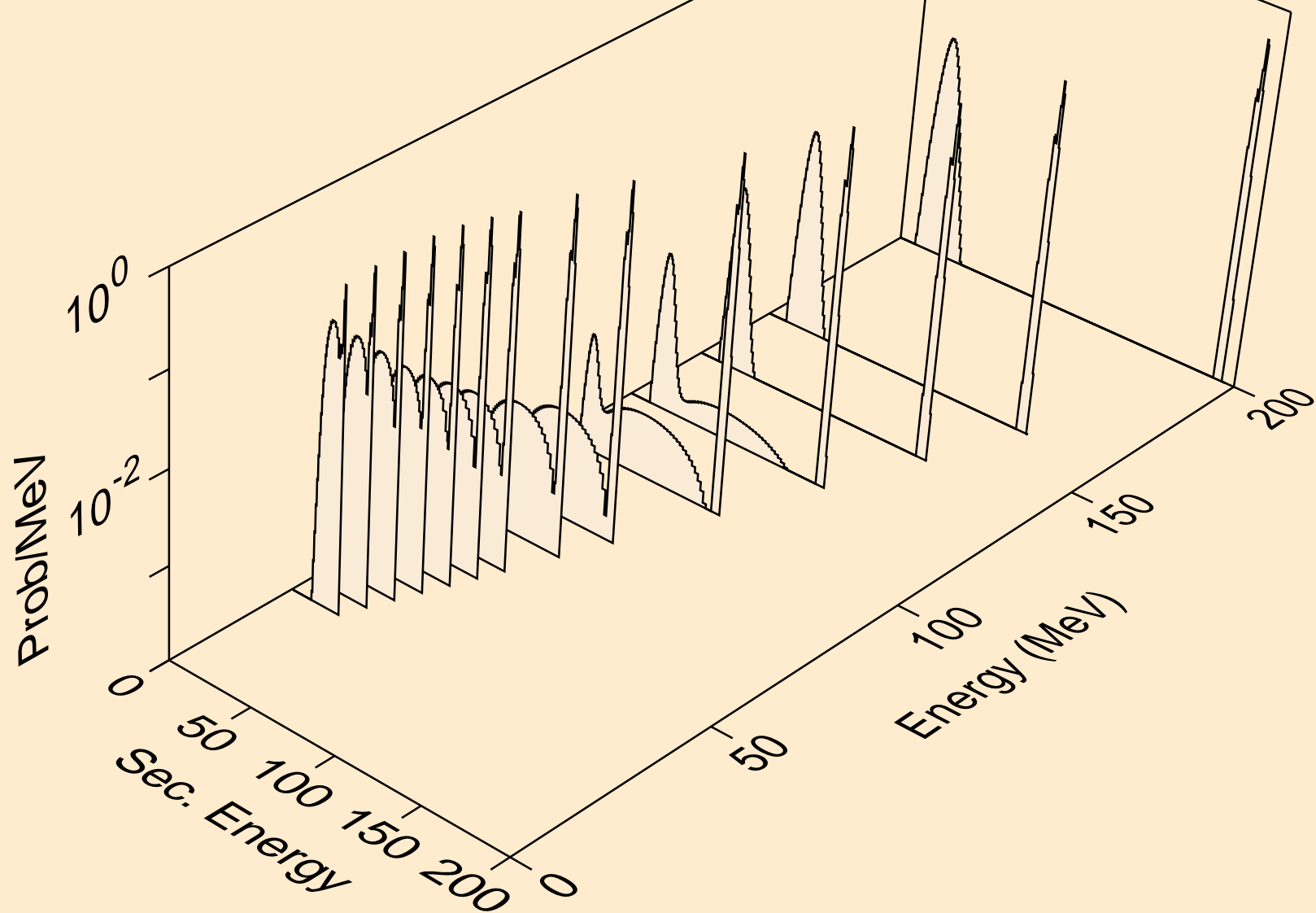
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



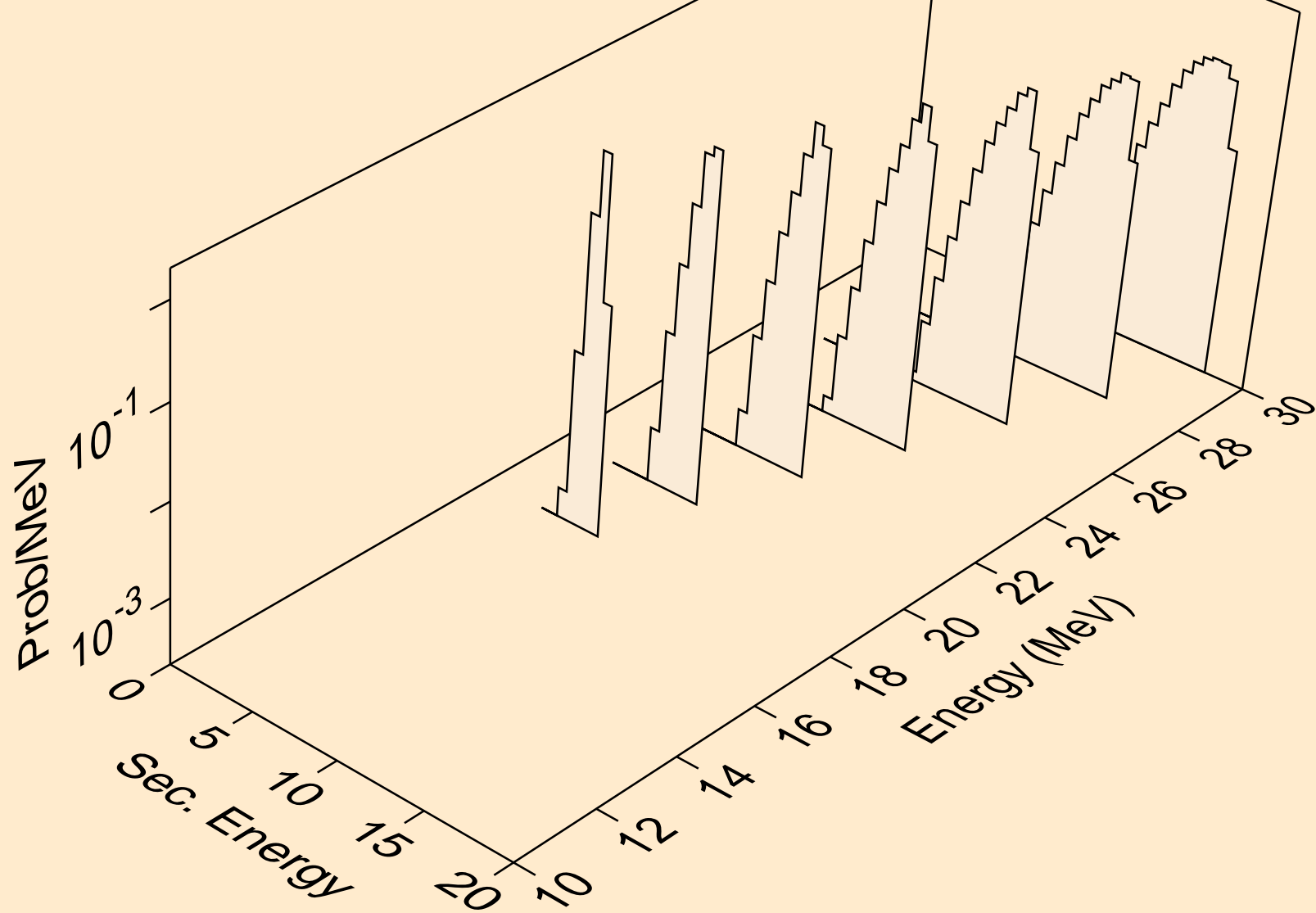
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



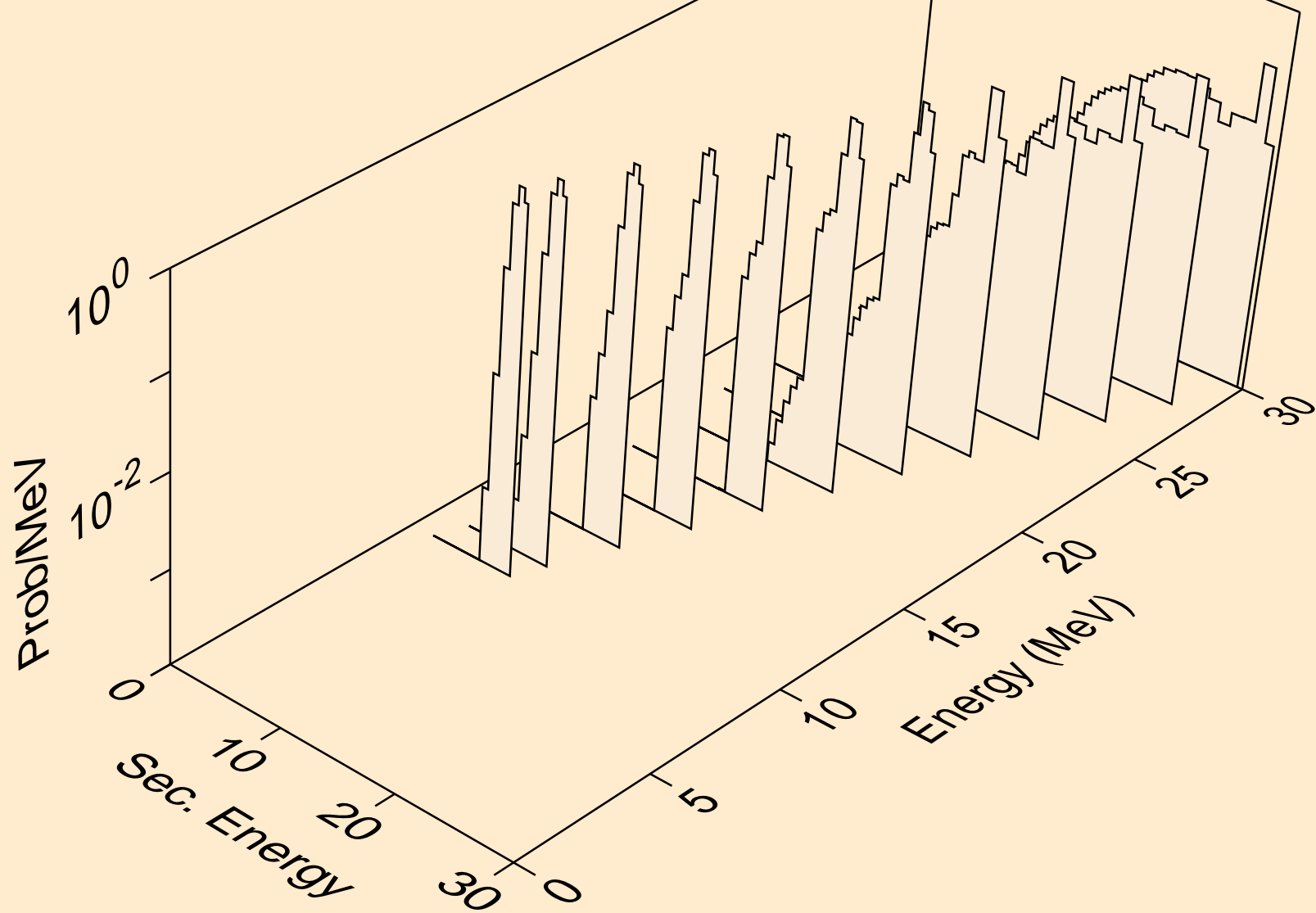
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,x)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

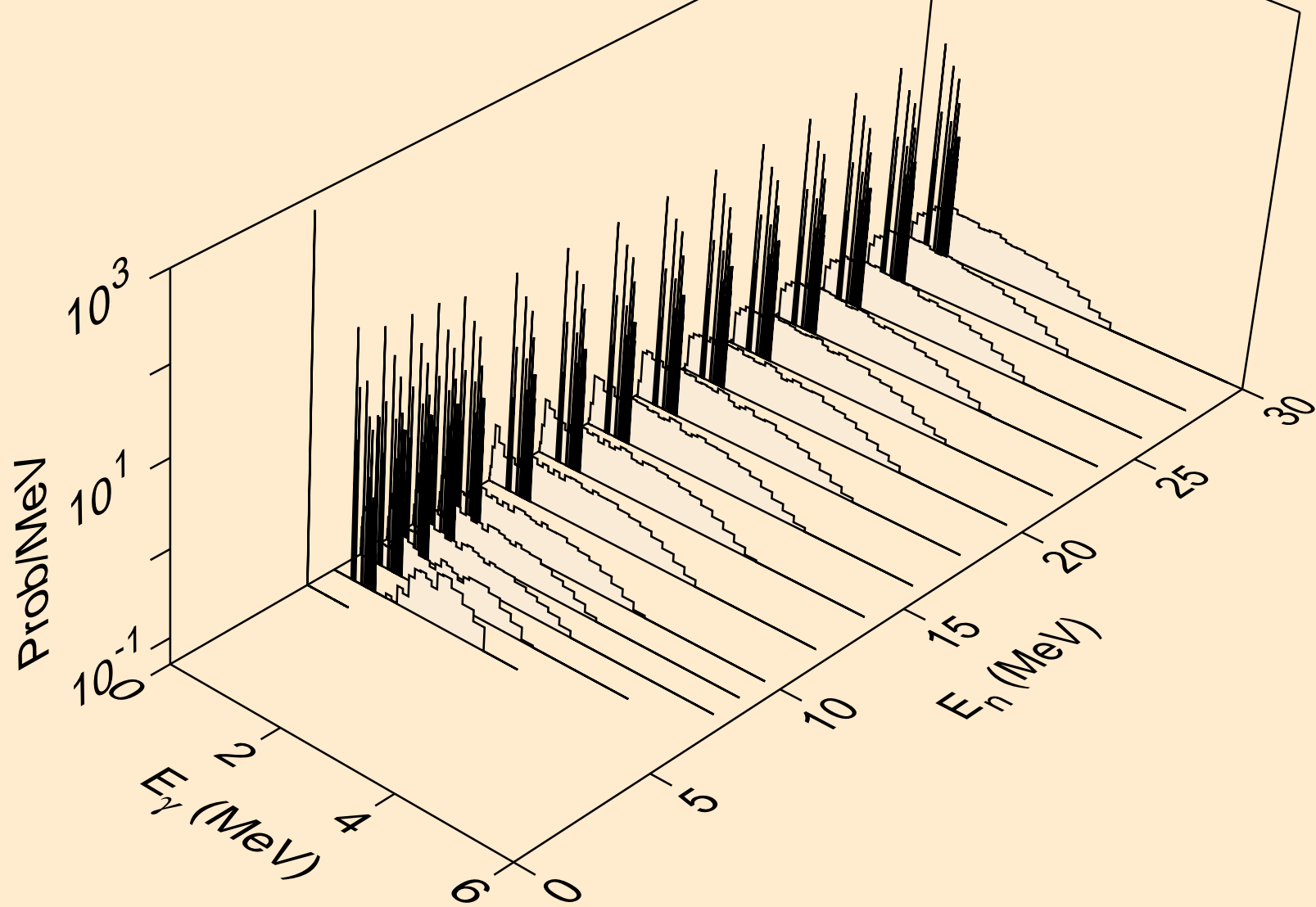


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
He-3 emission for inelastic

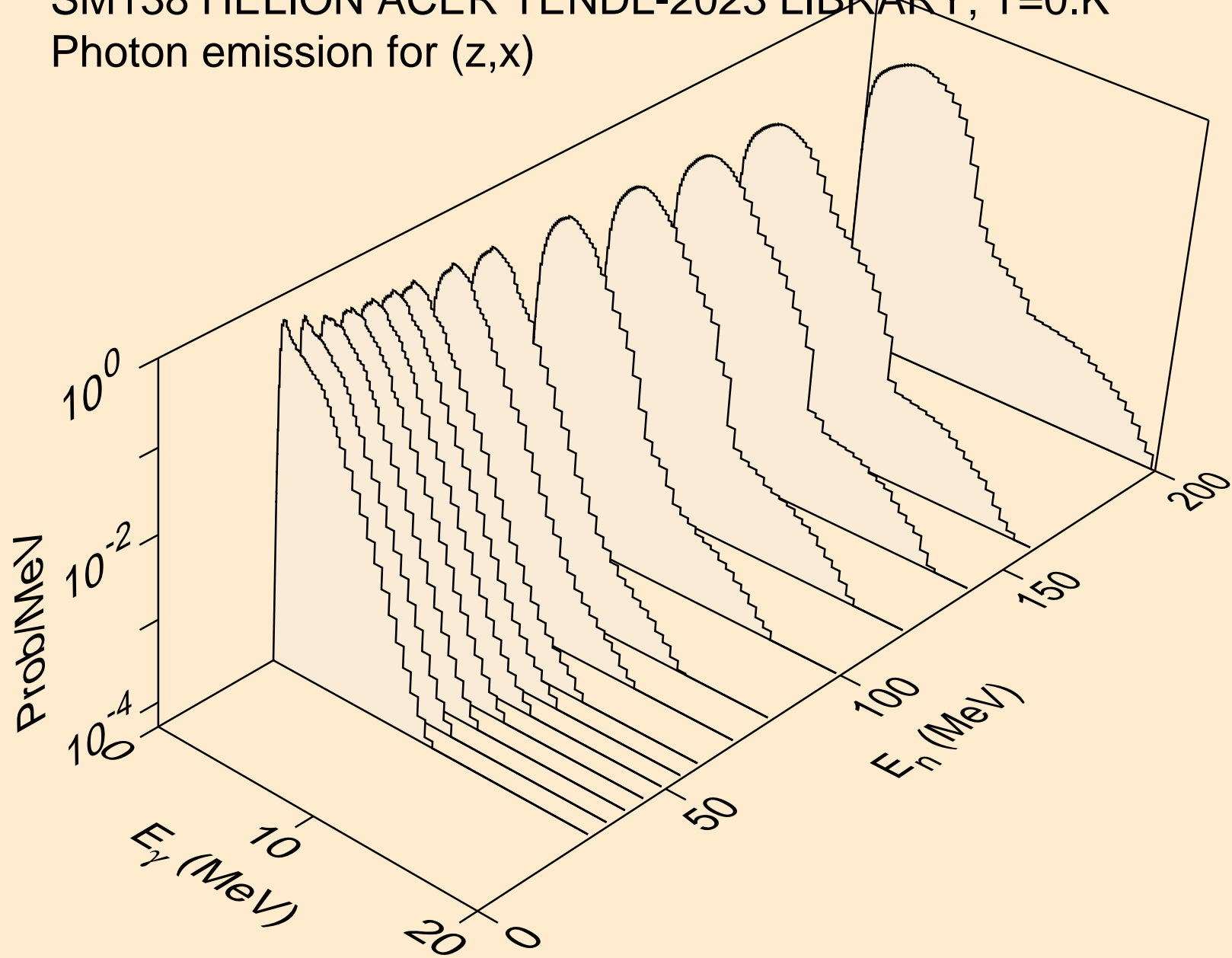




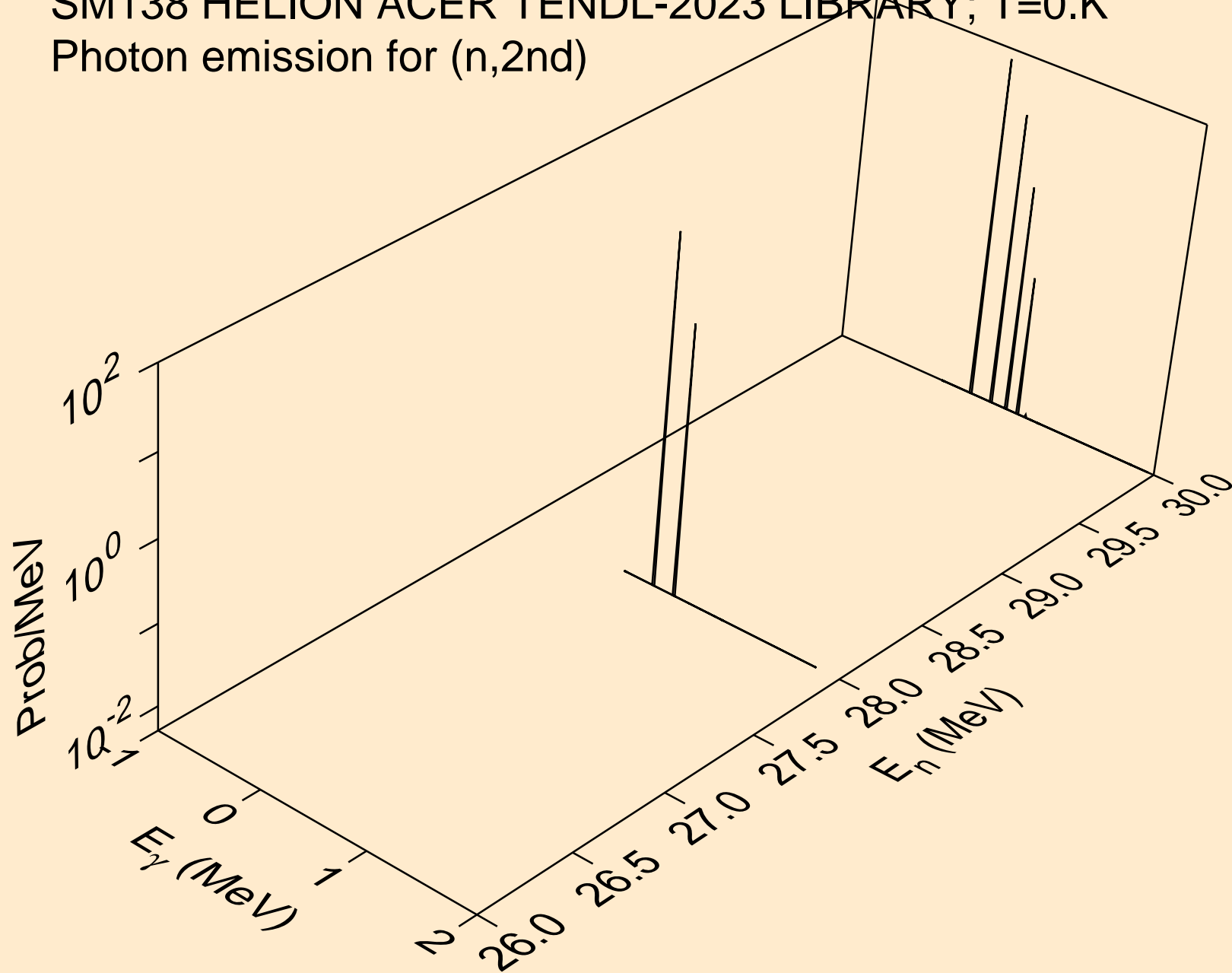
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



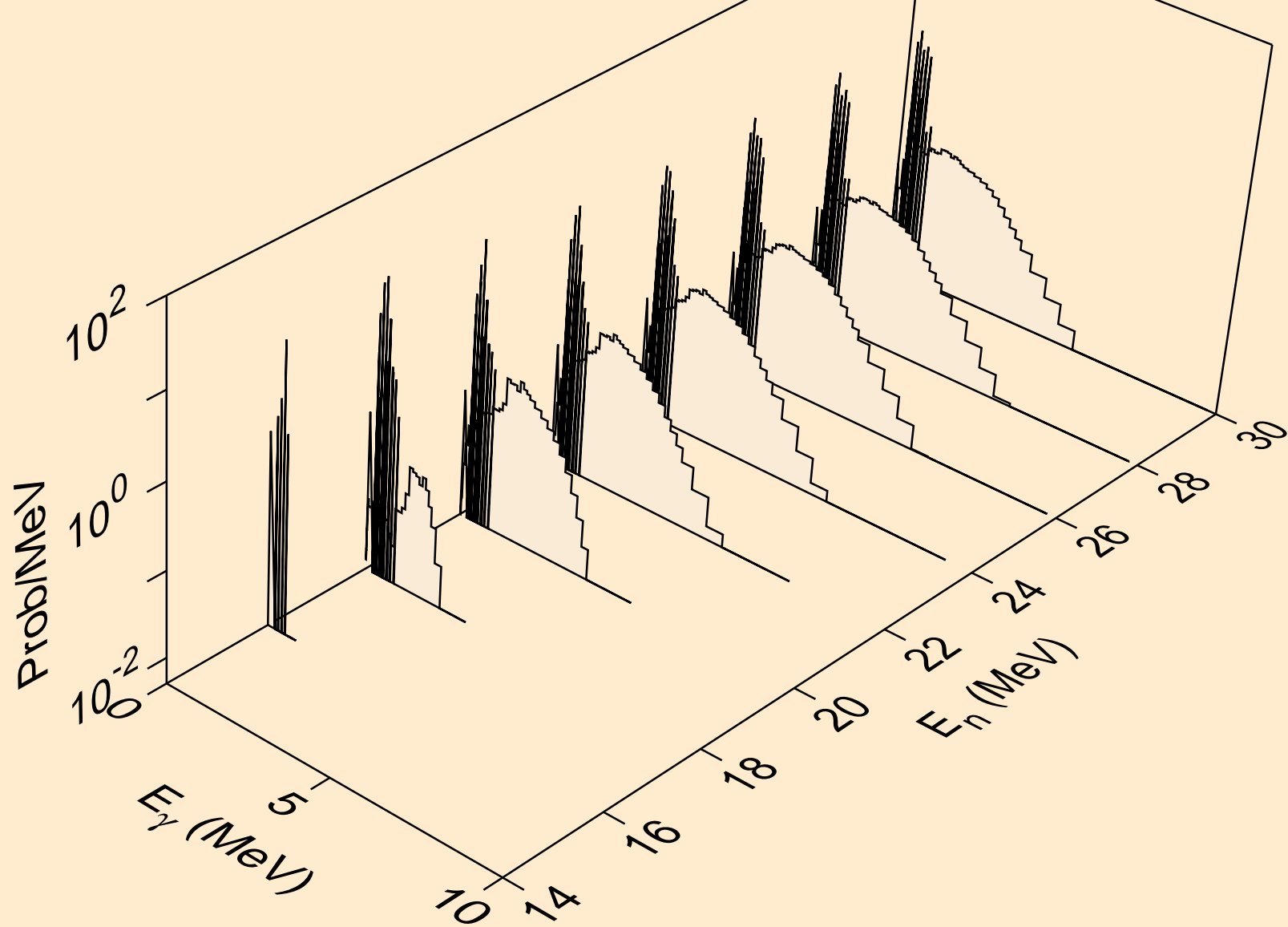
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



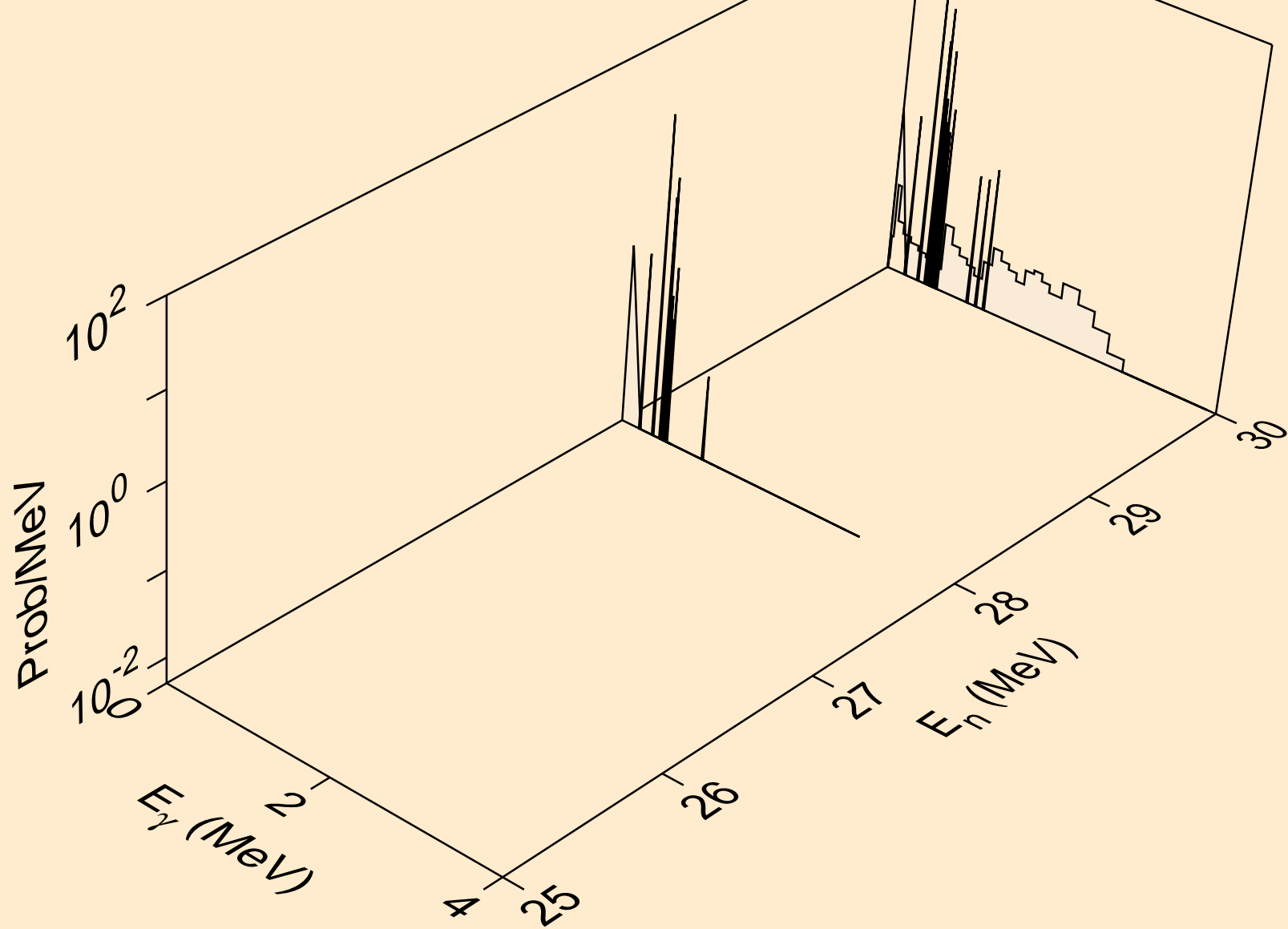
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



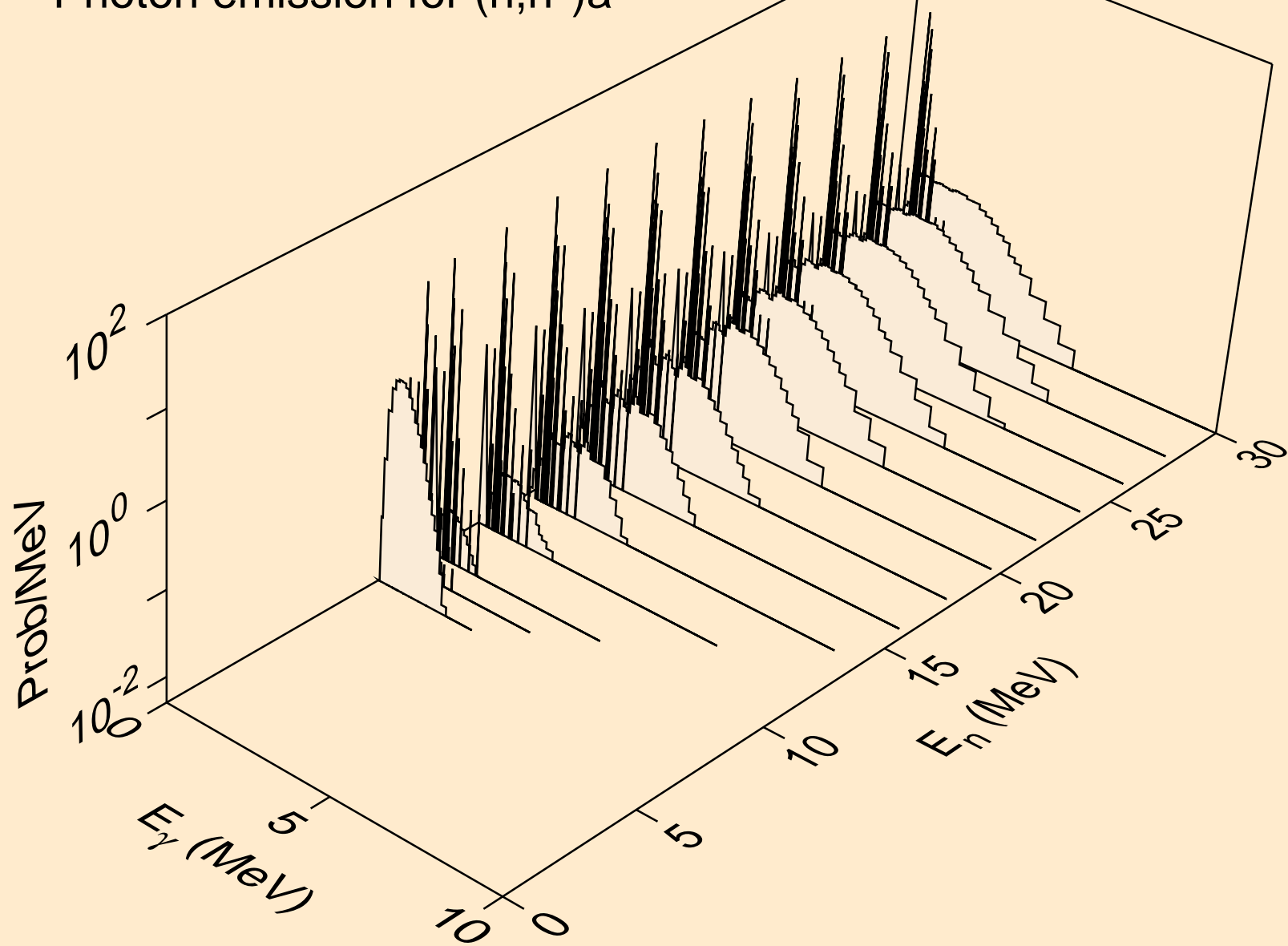
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



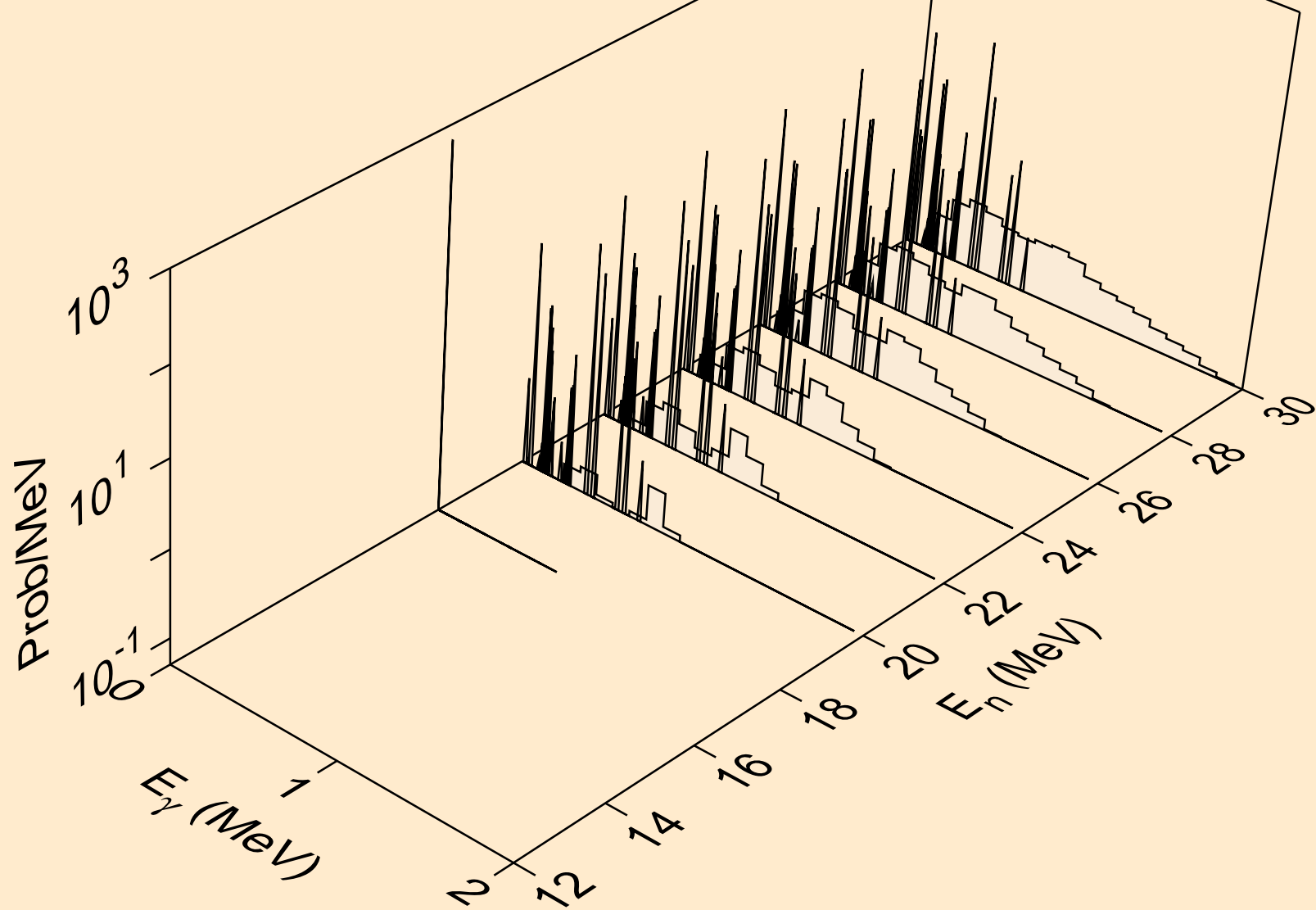
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



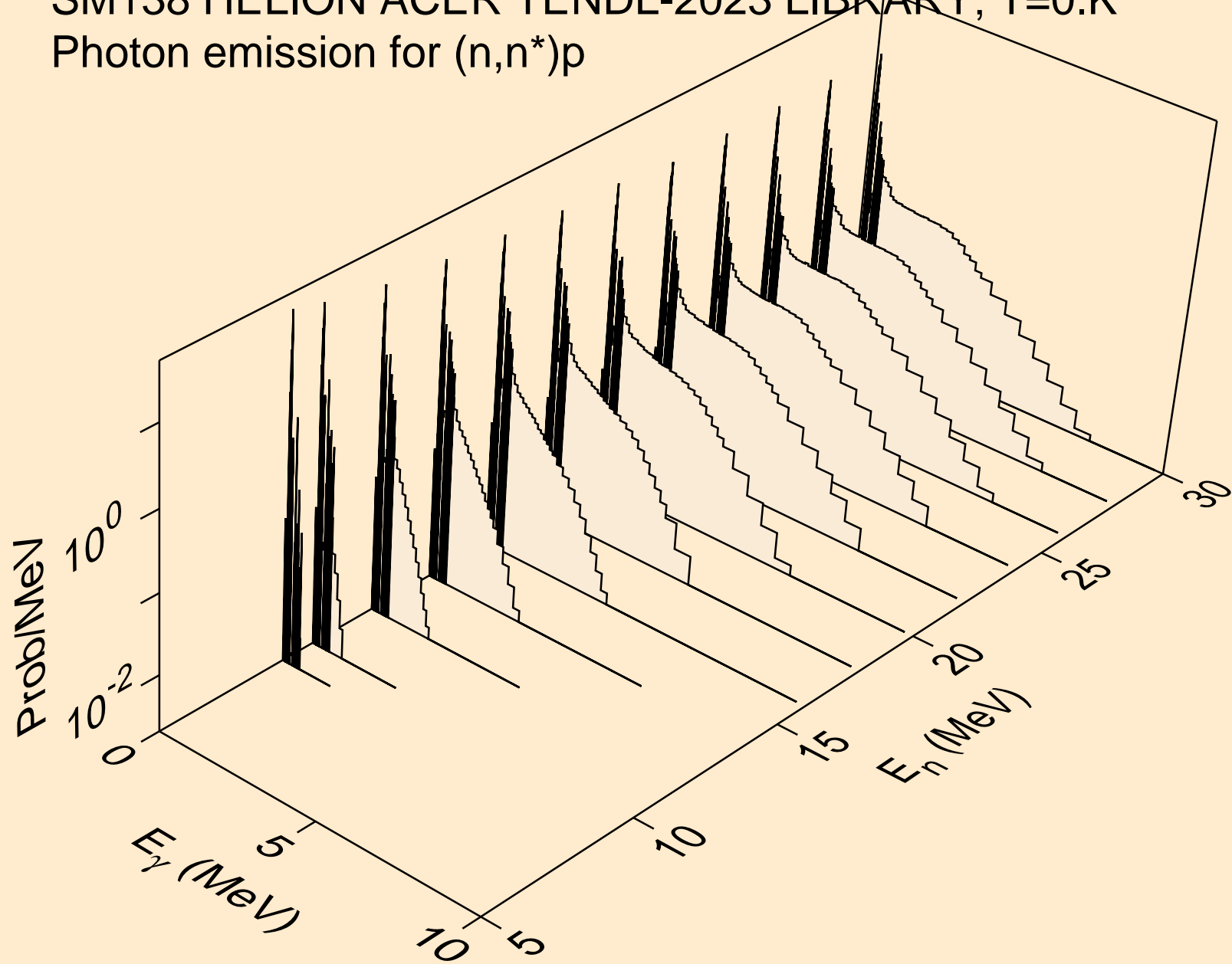
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

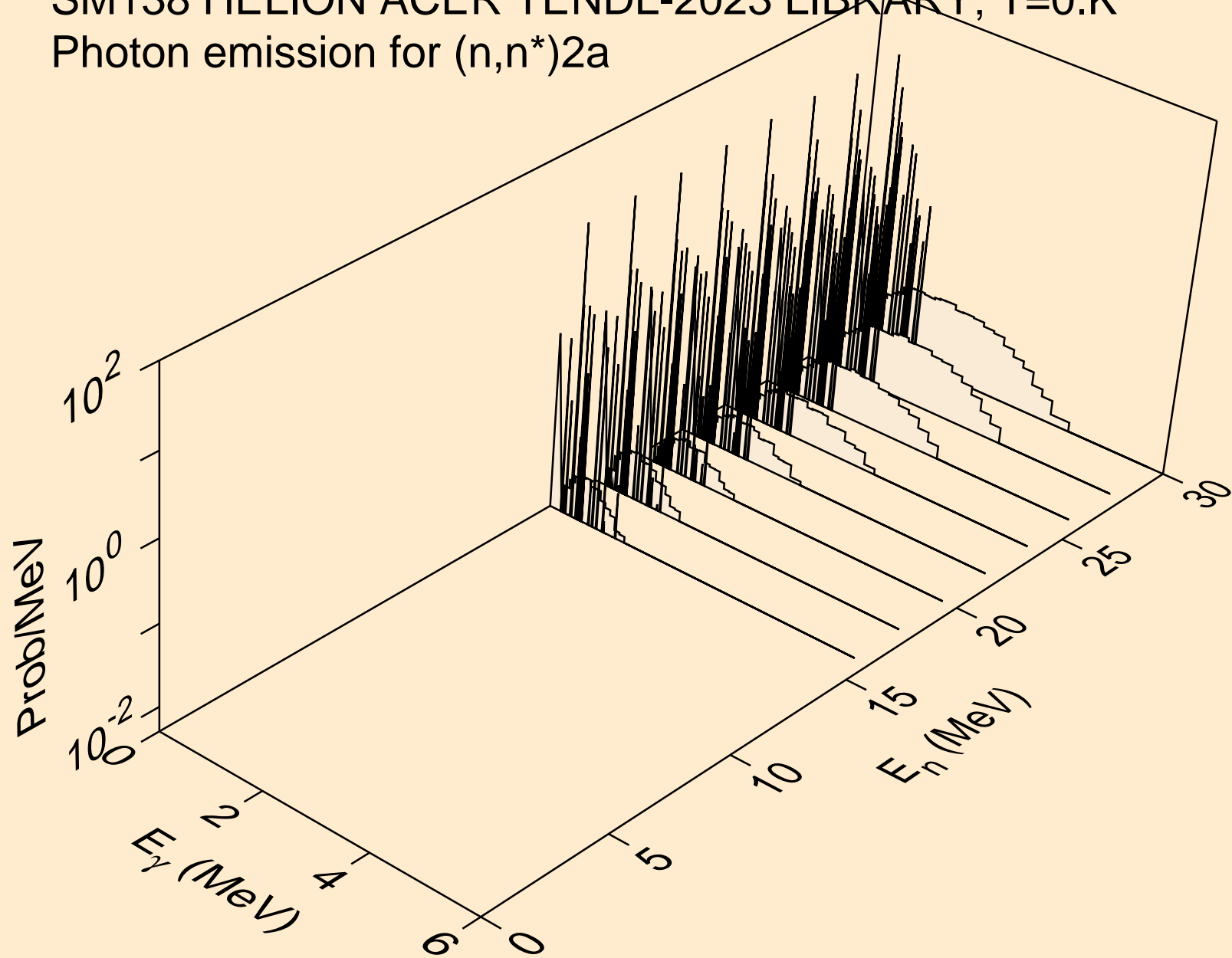


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

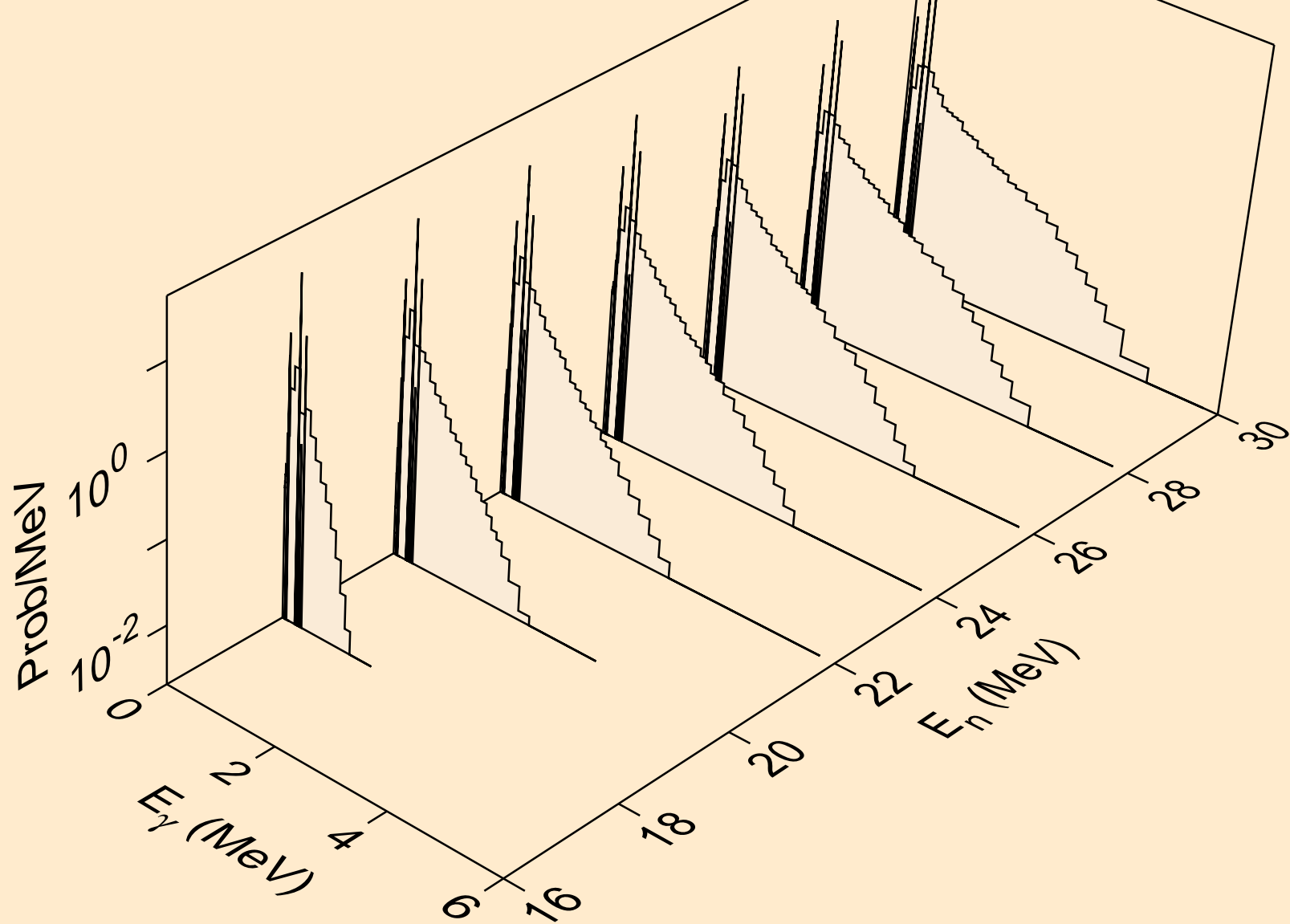




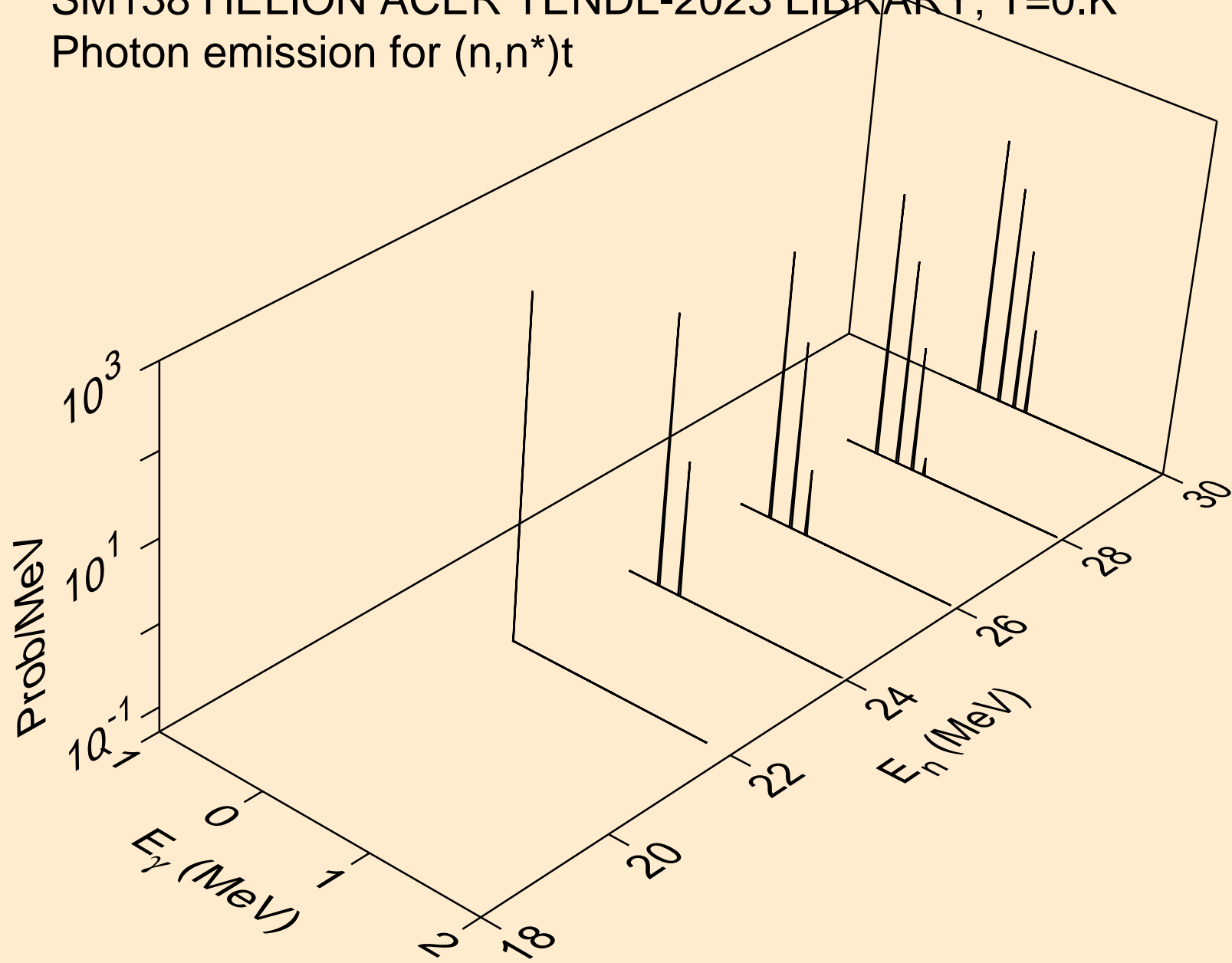
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



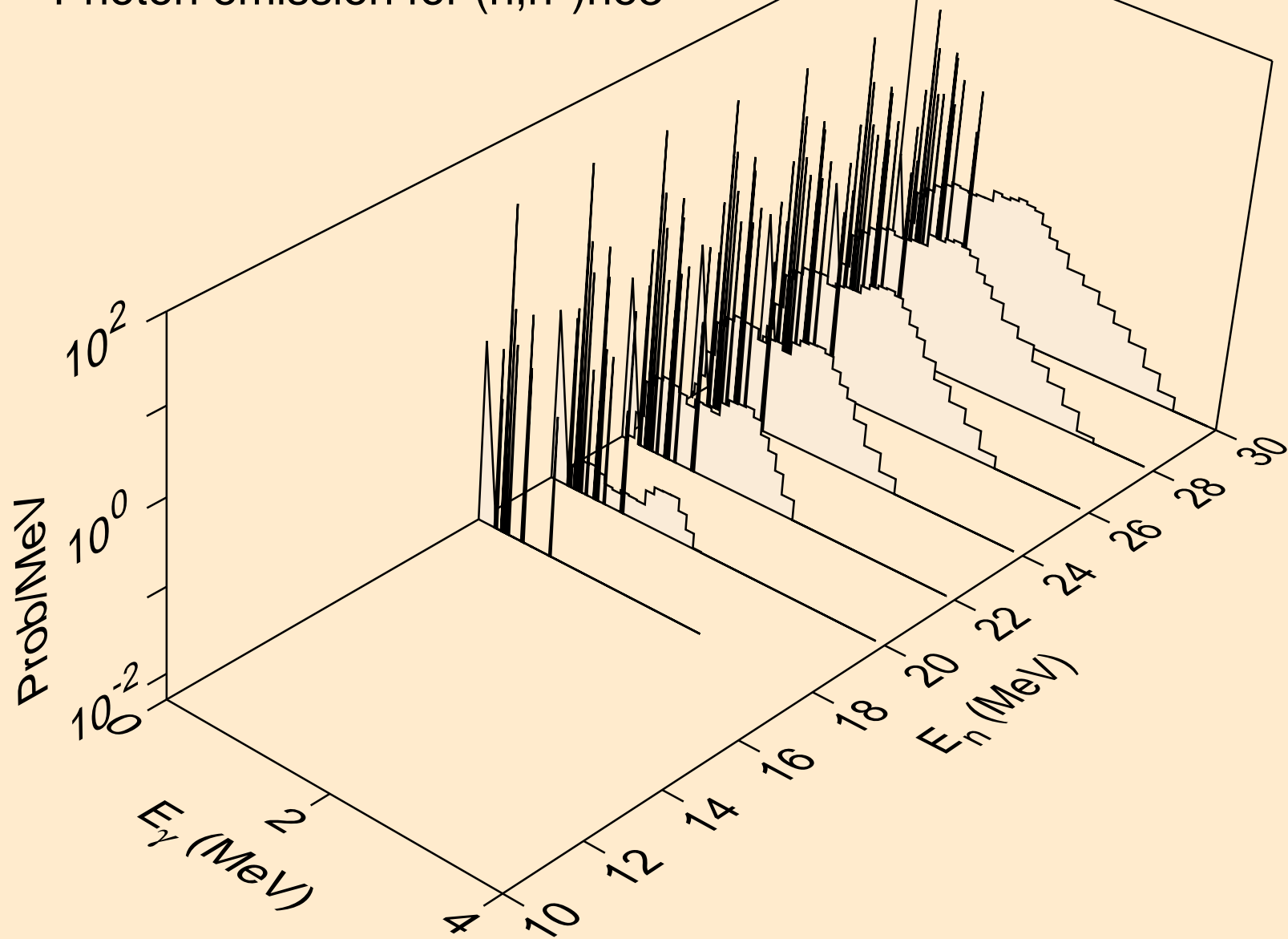
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



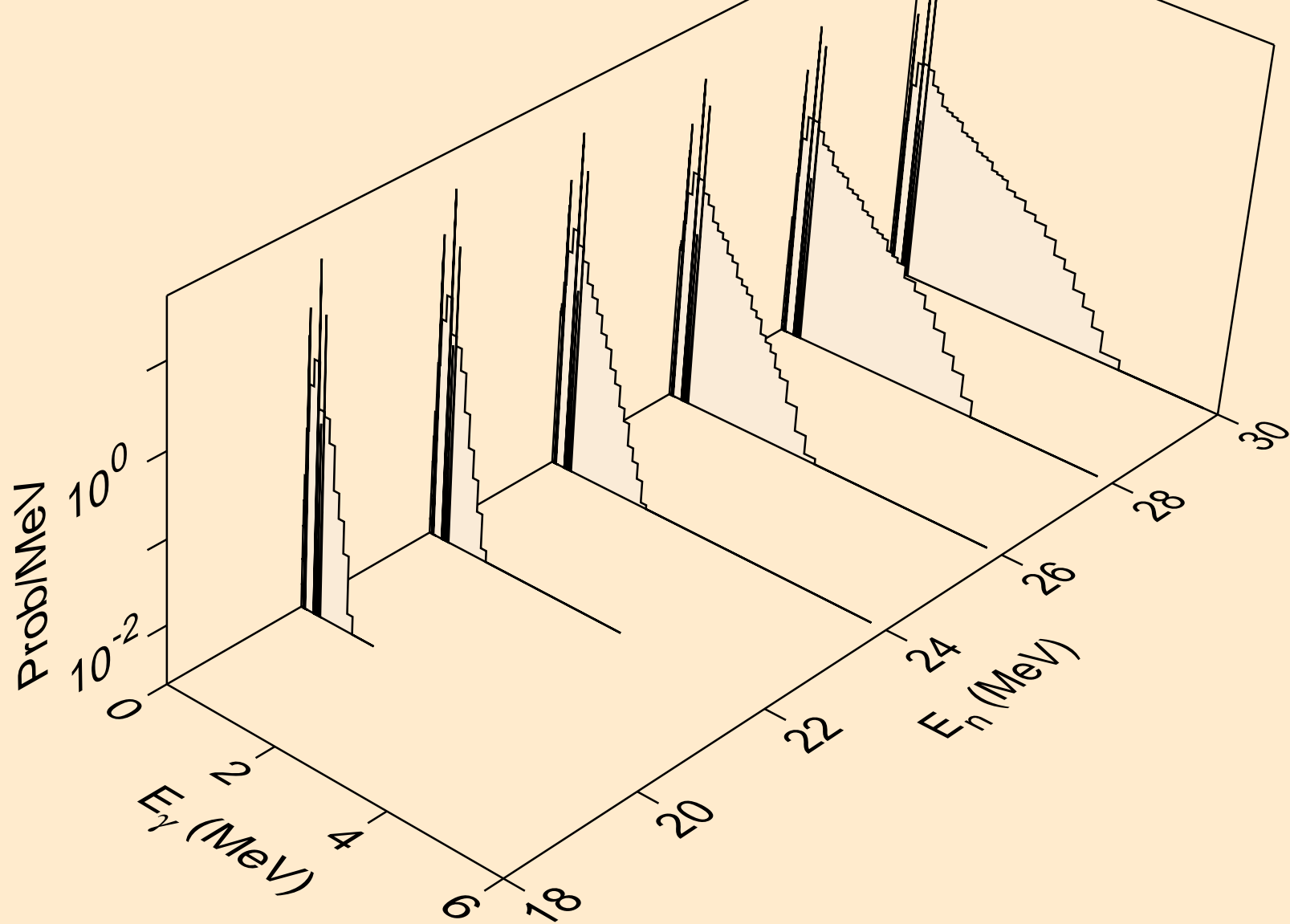
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



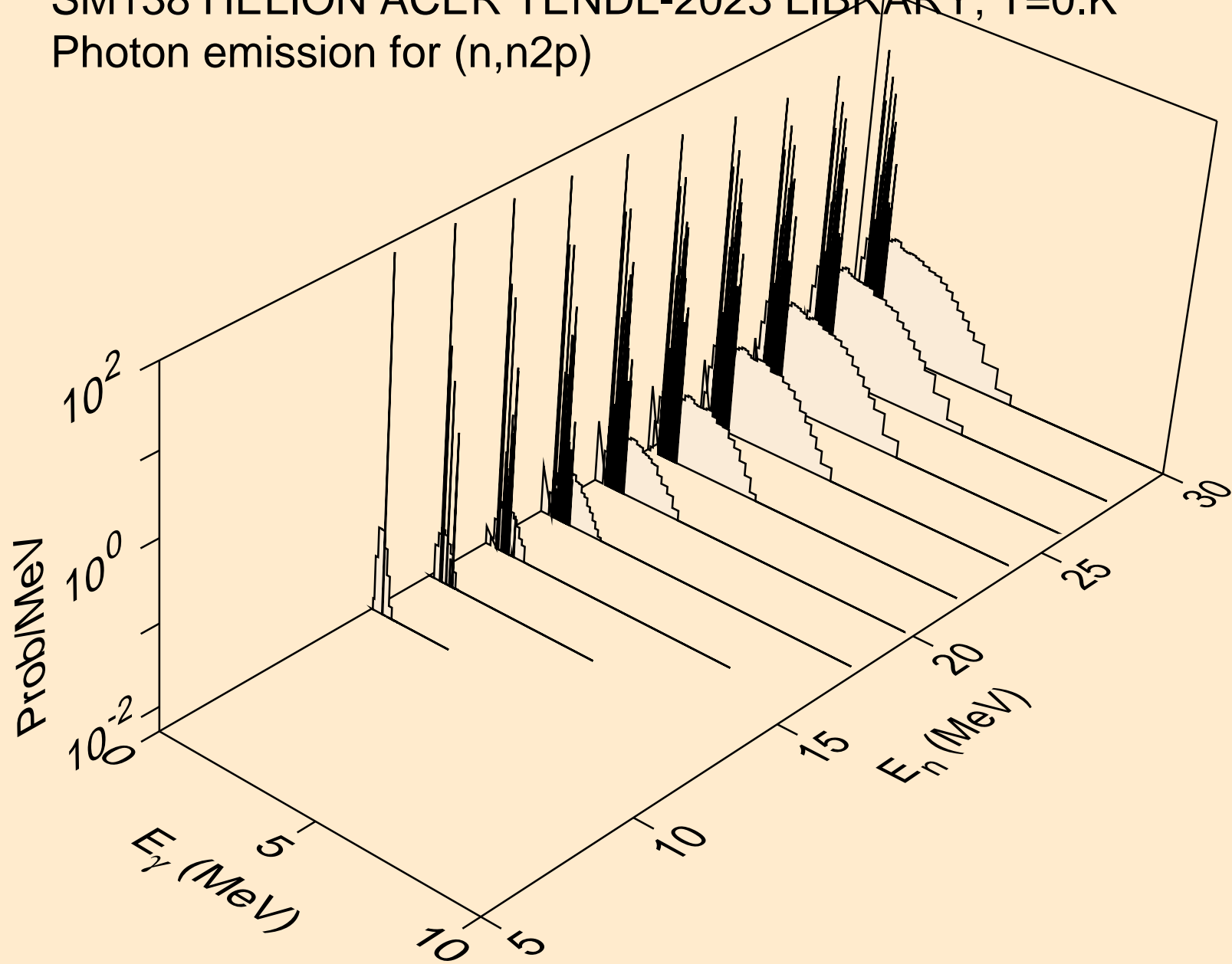
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



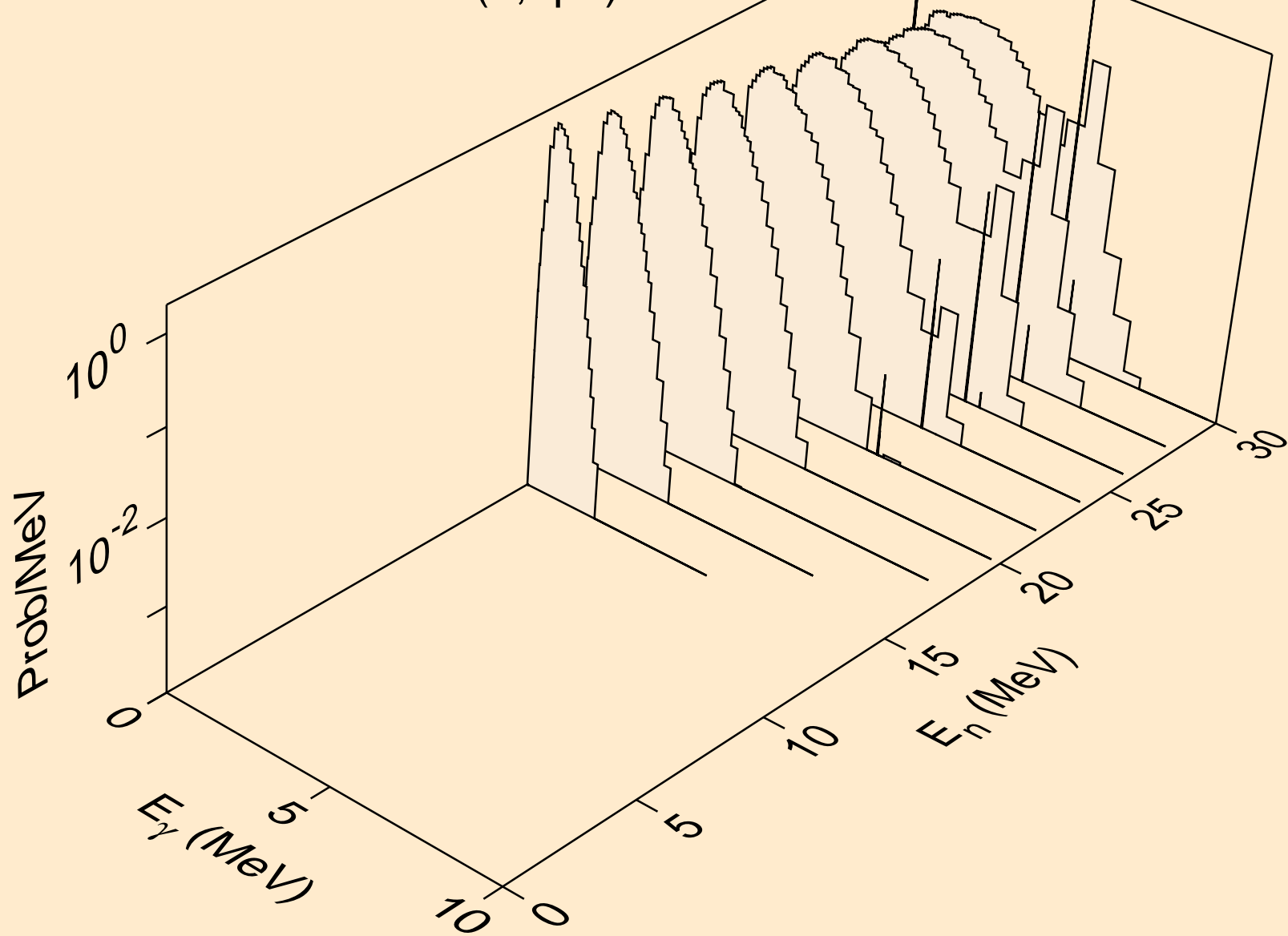
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



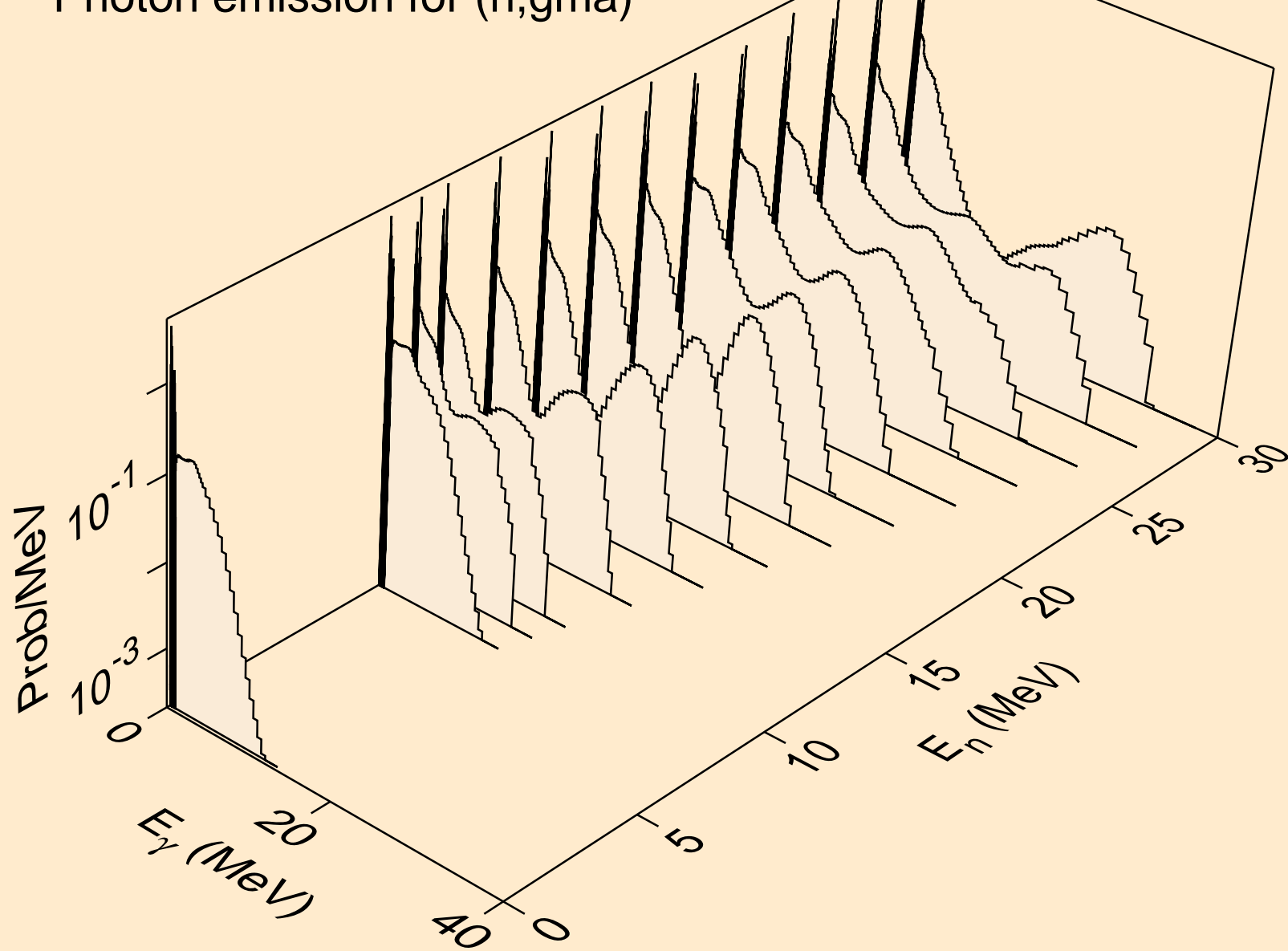
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

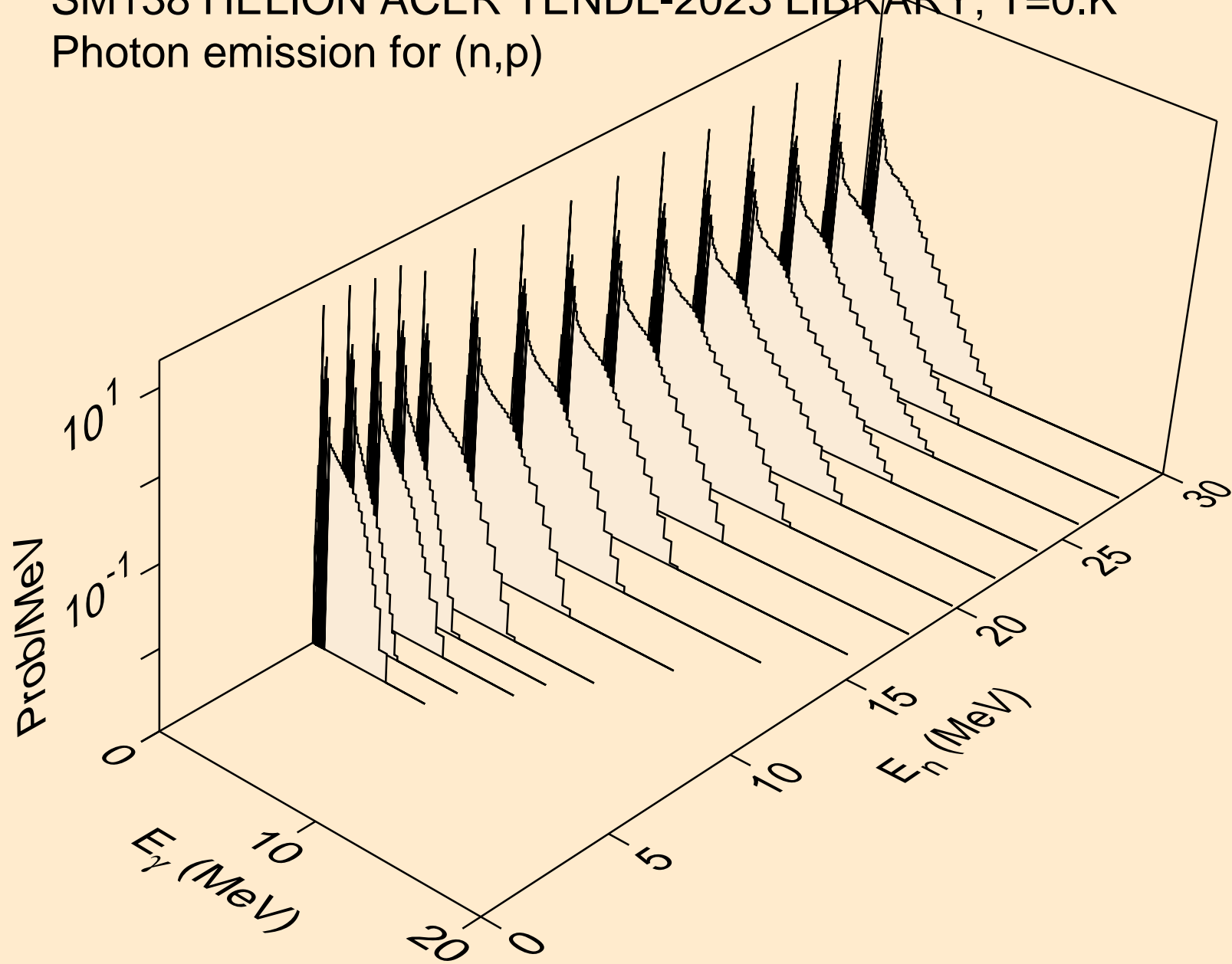


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)

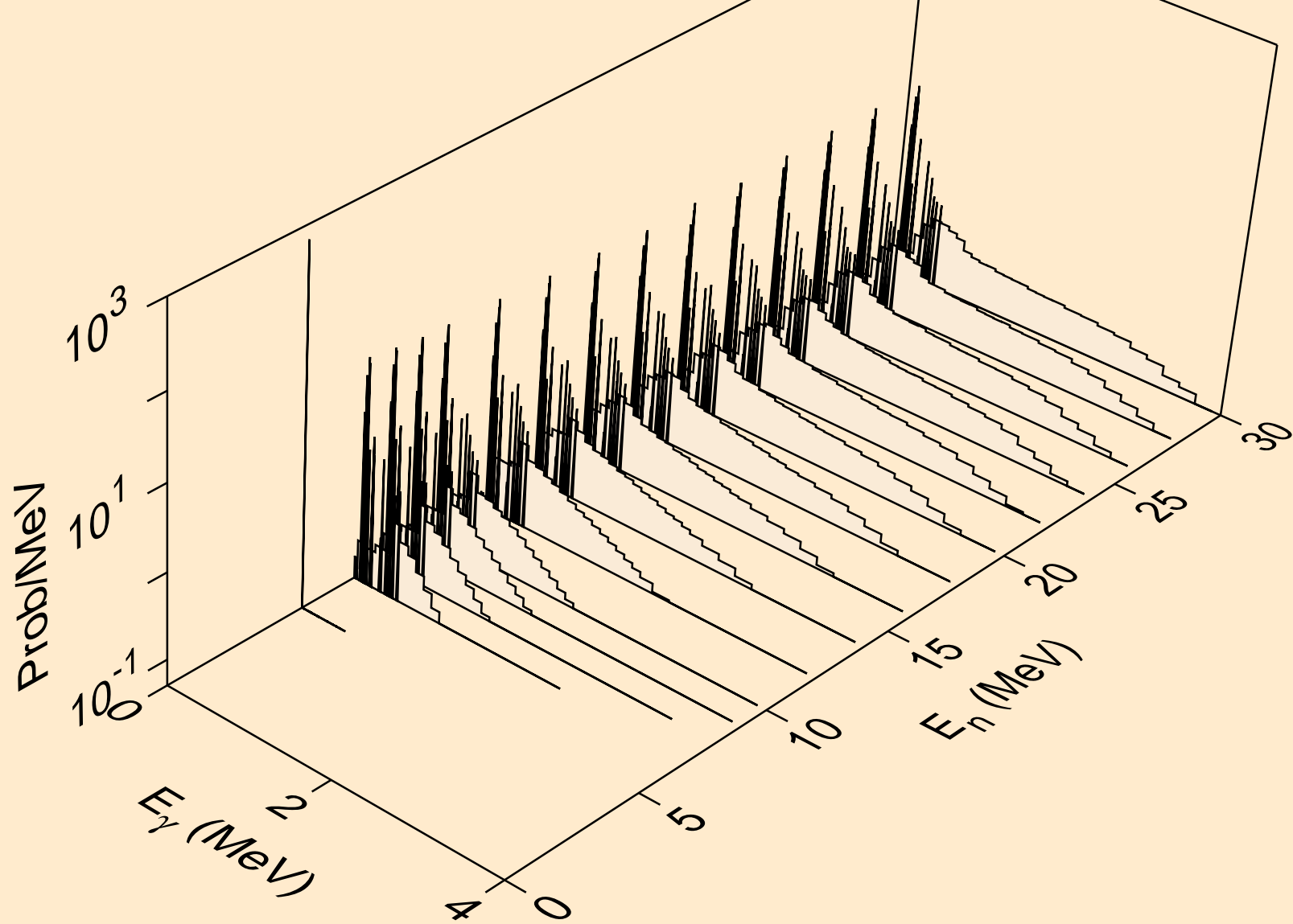




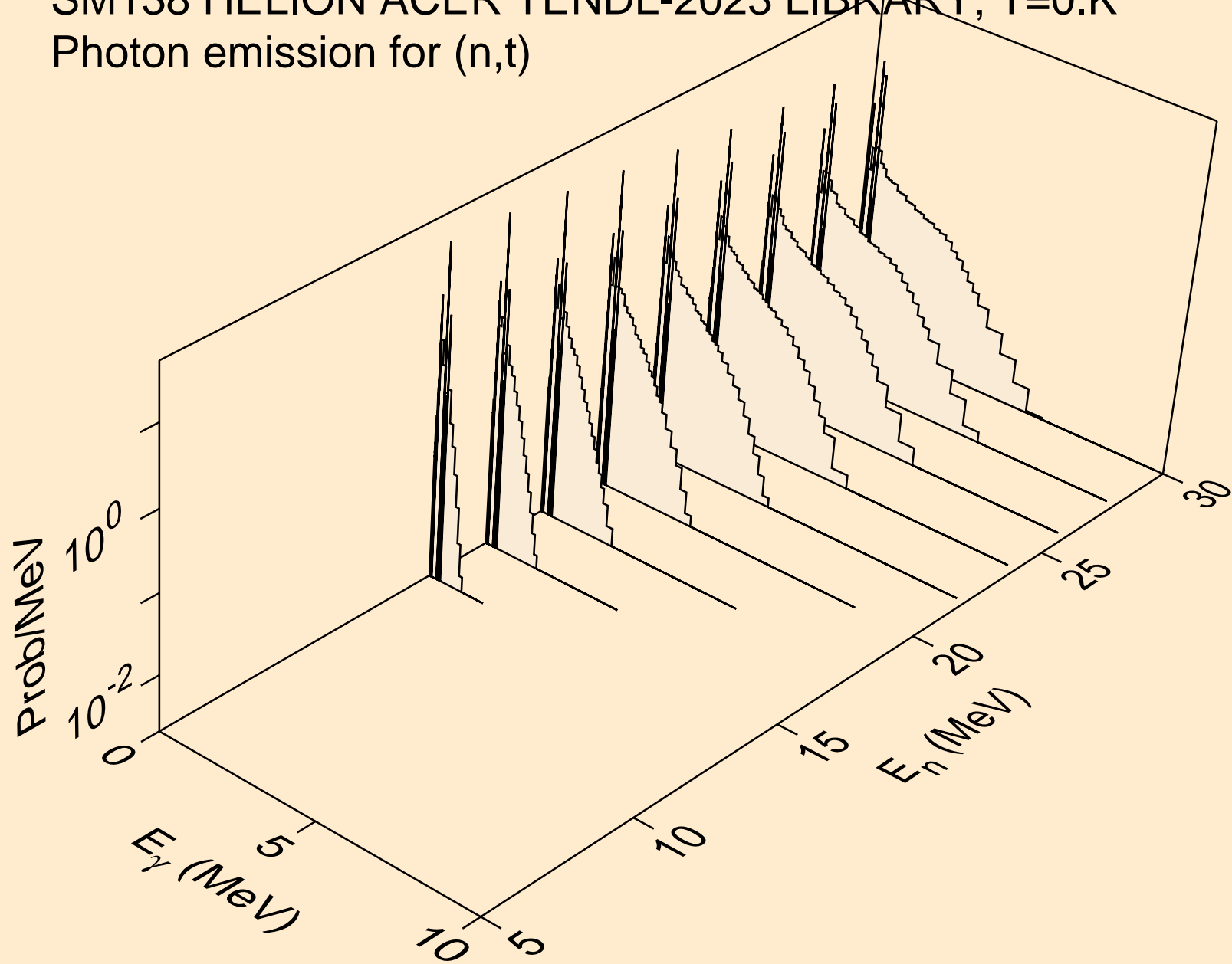
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



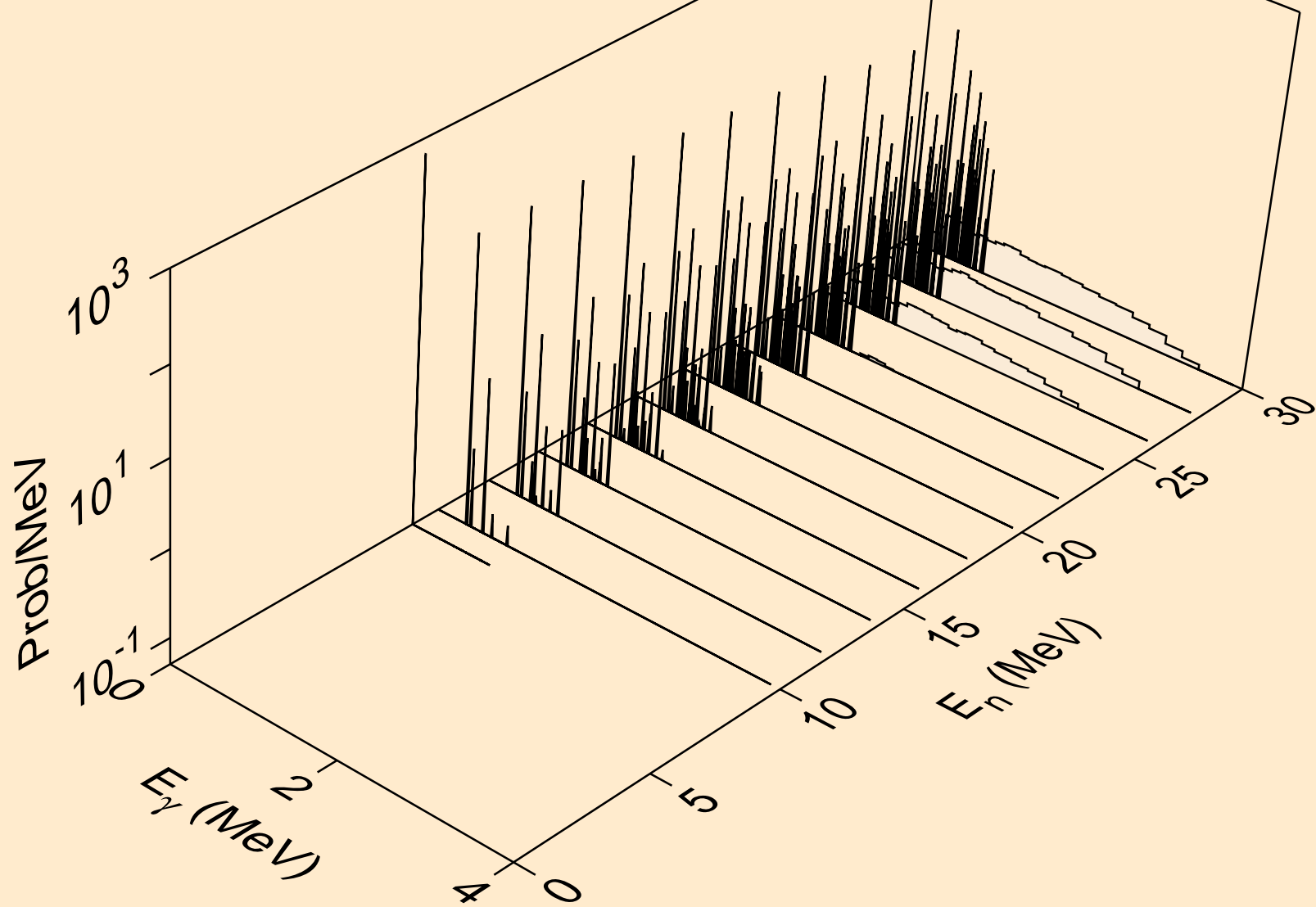
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



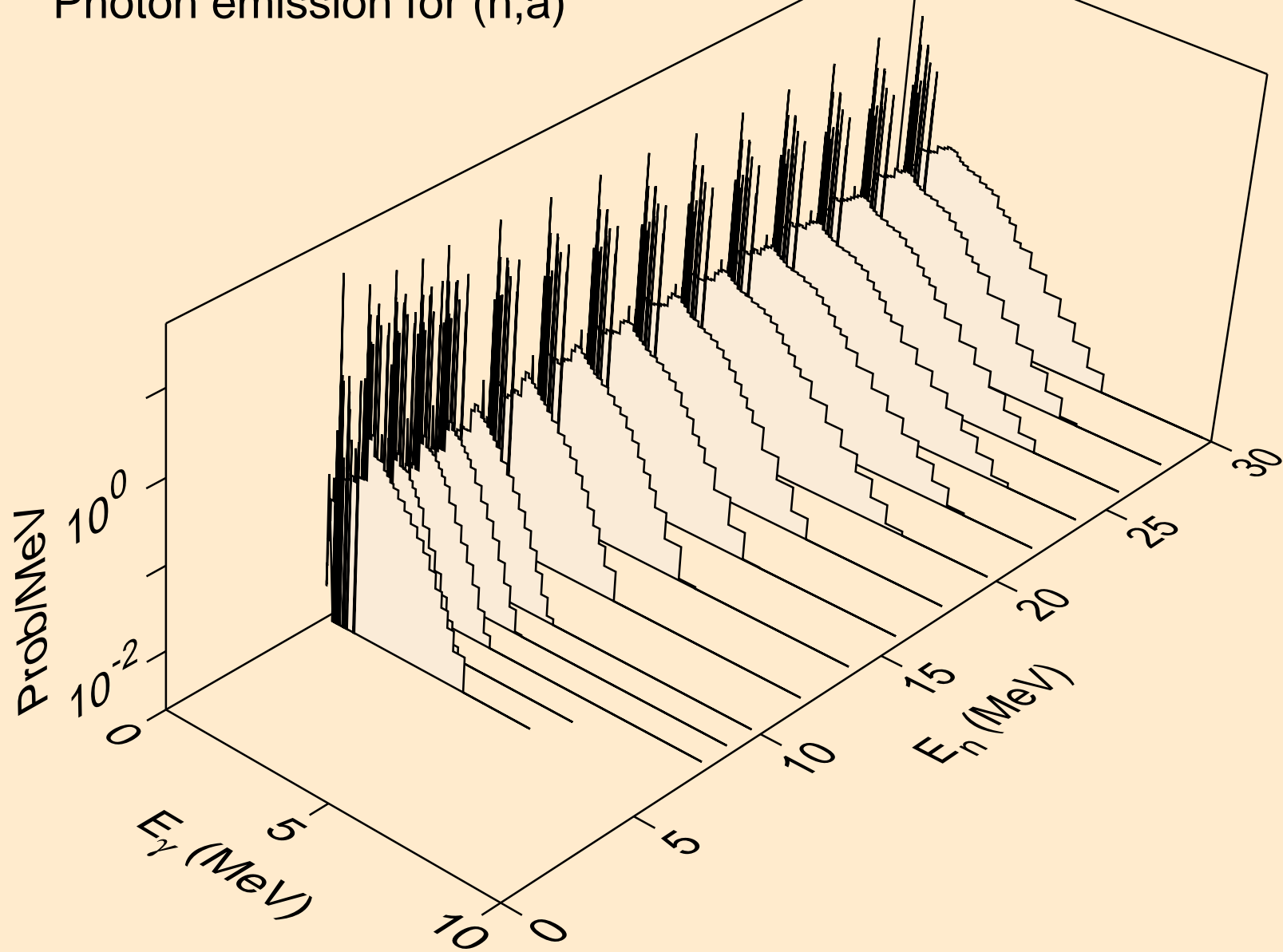
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



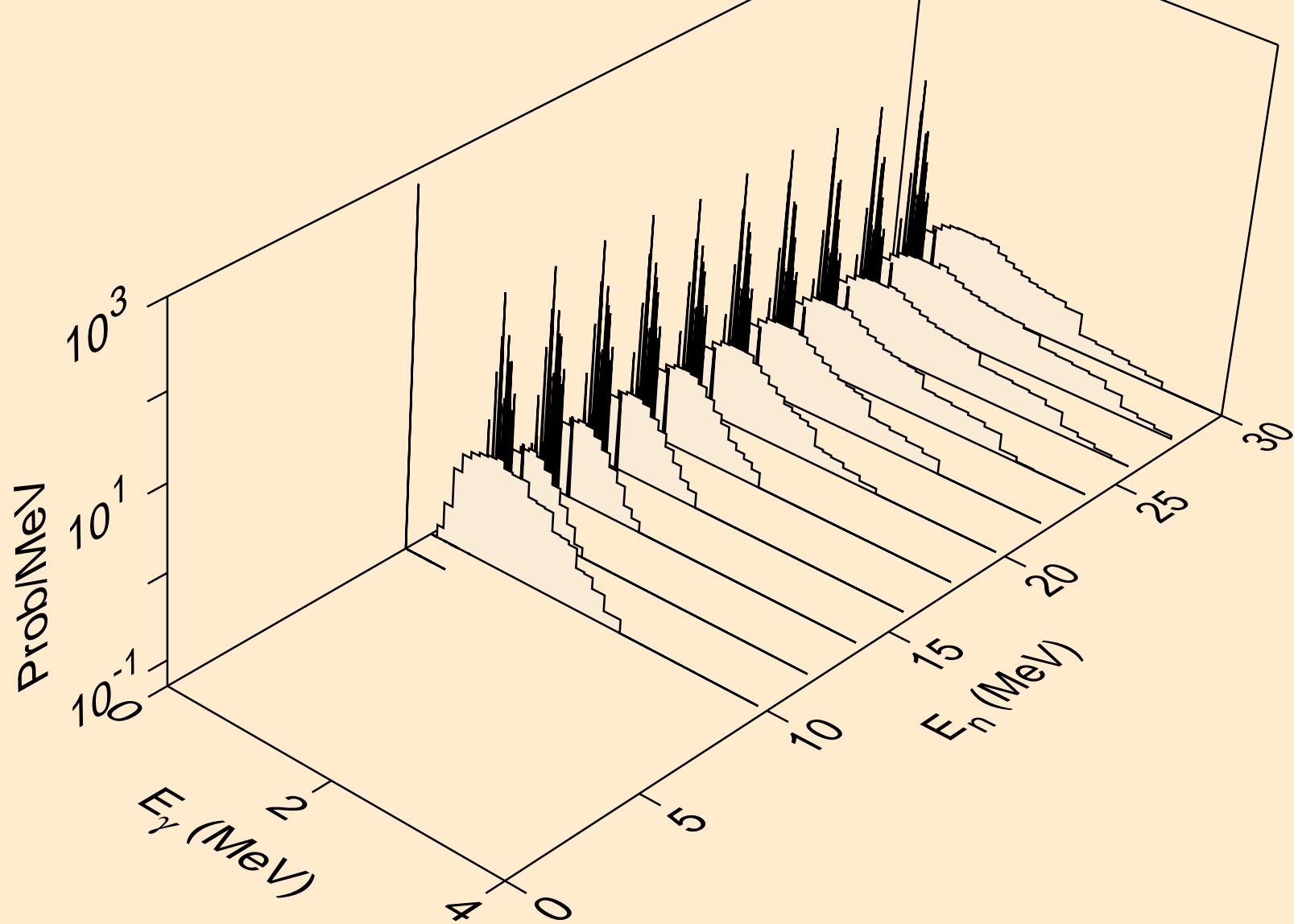
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



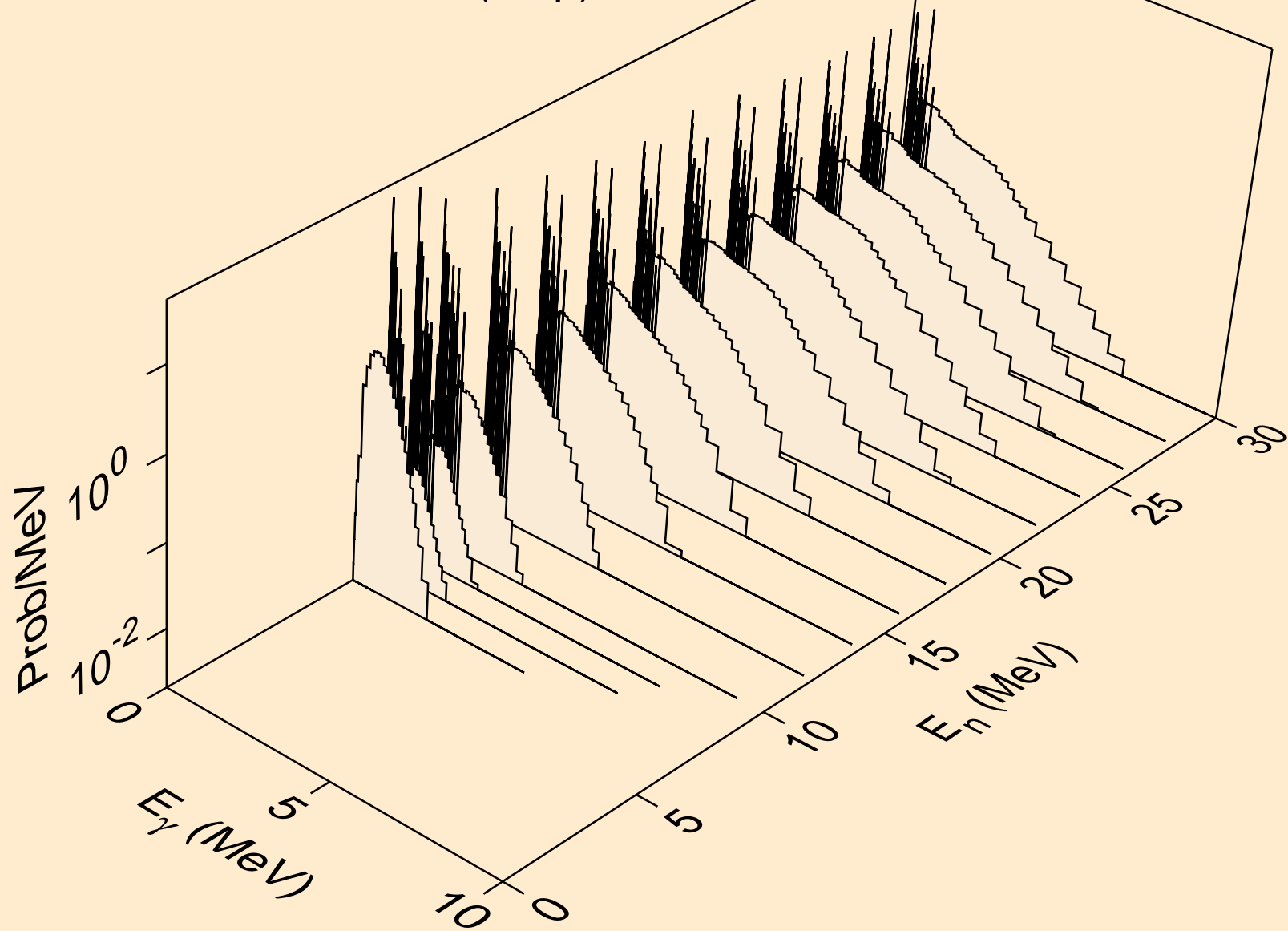
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



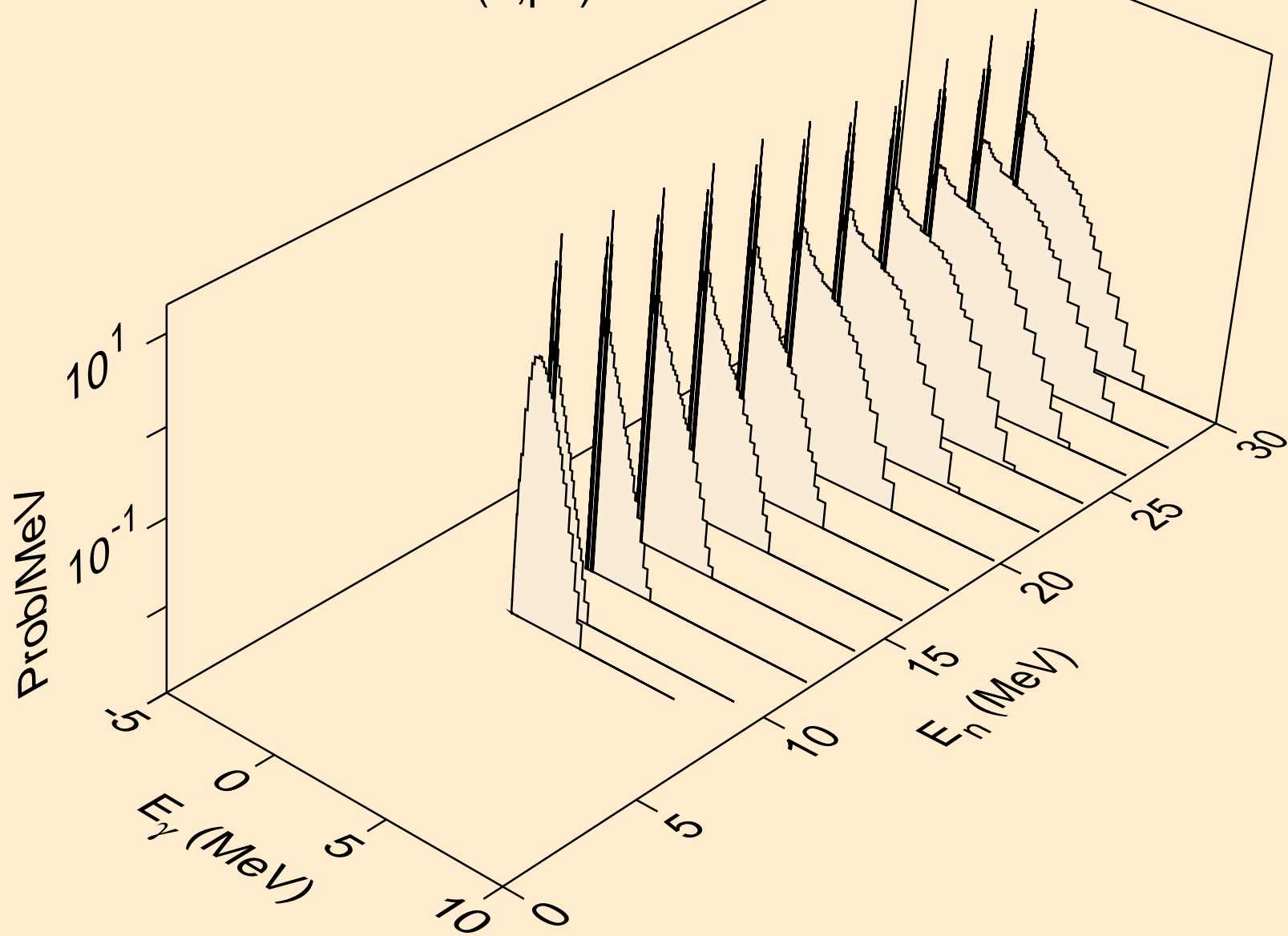
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

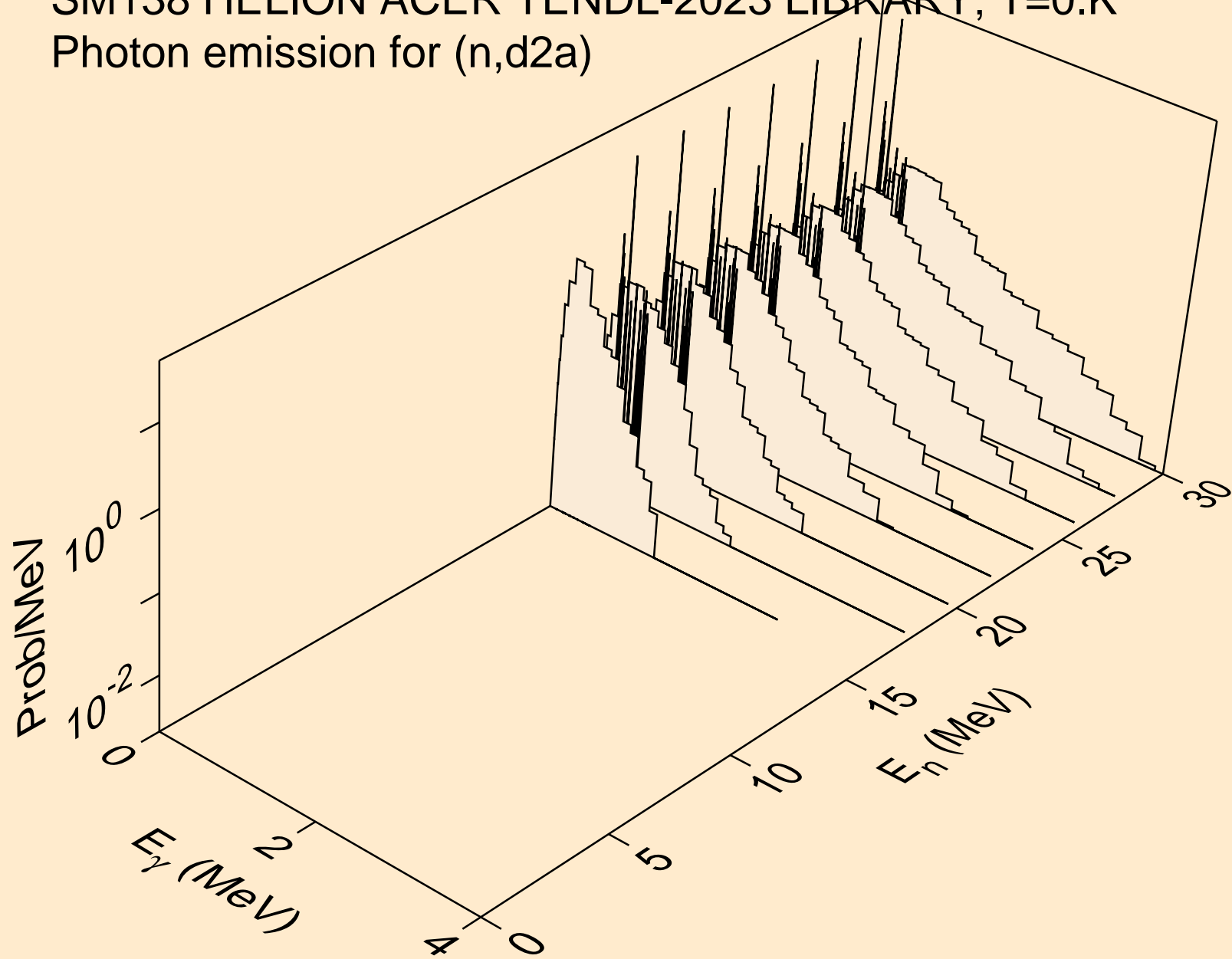


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

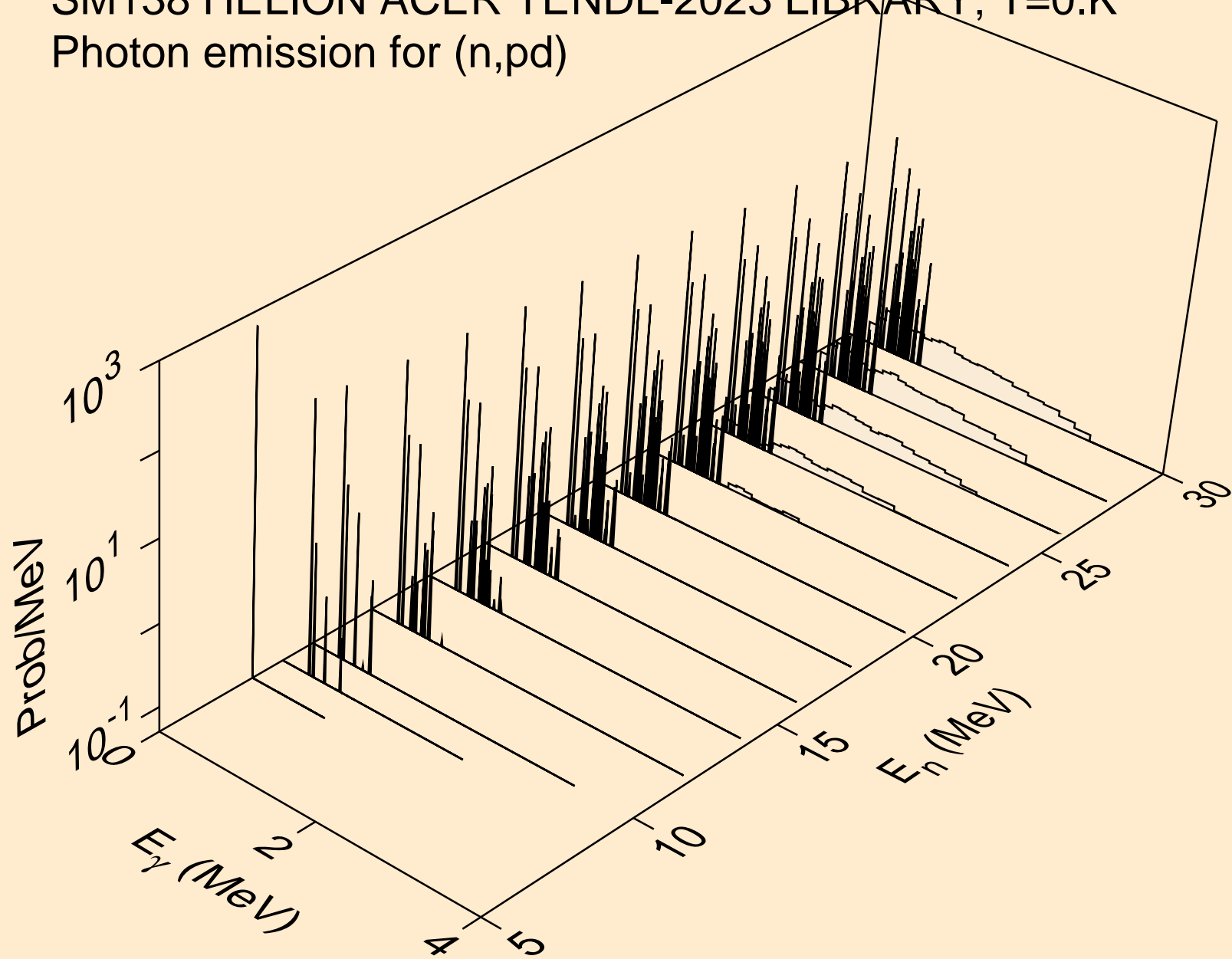




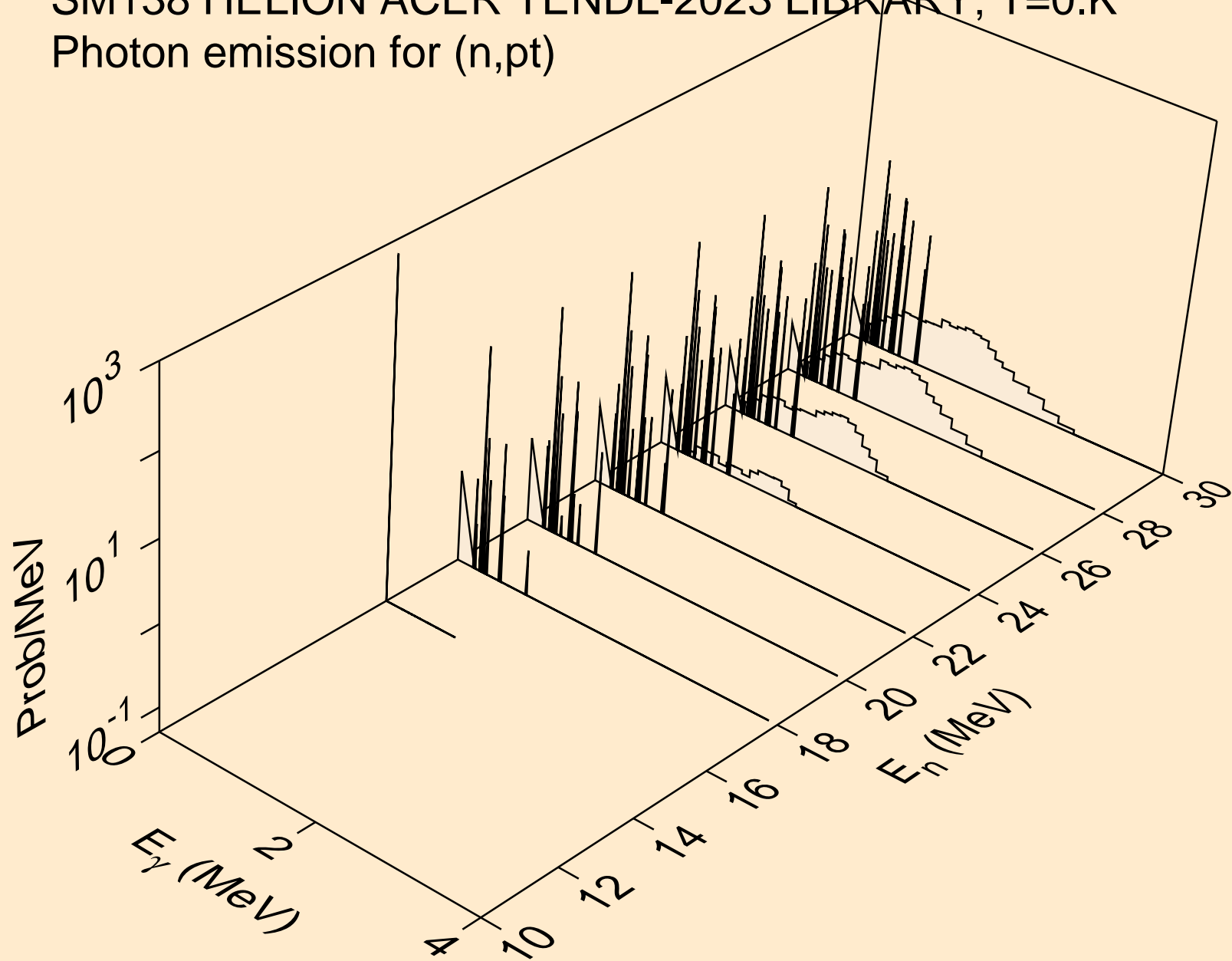
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Photon emission for (n,d2a)



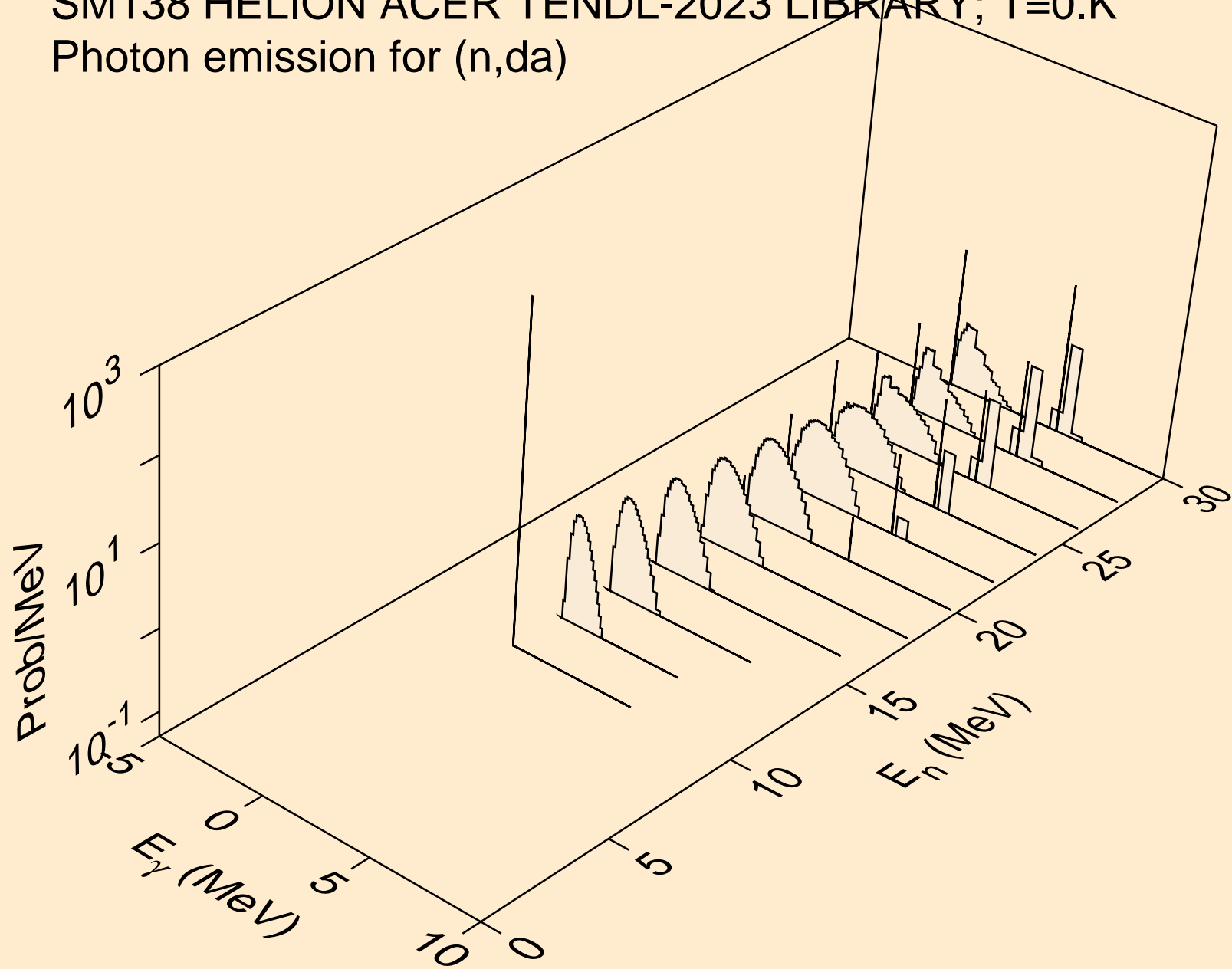
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

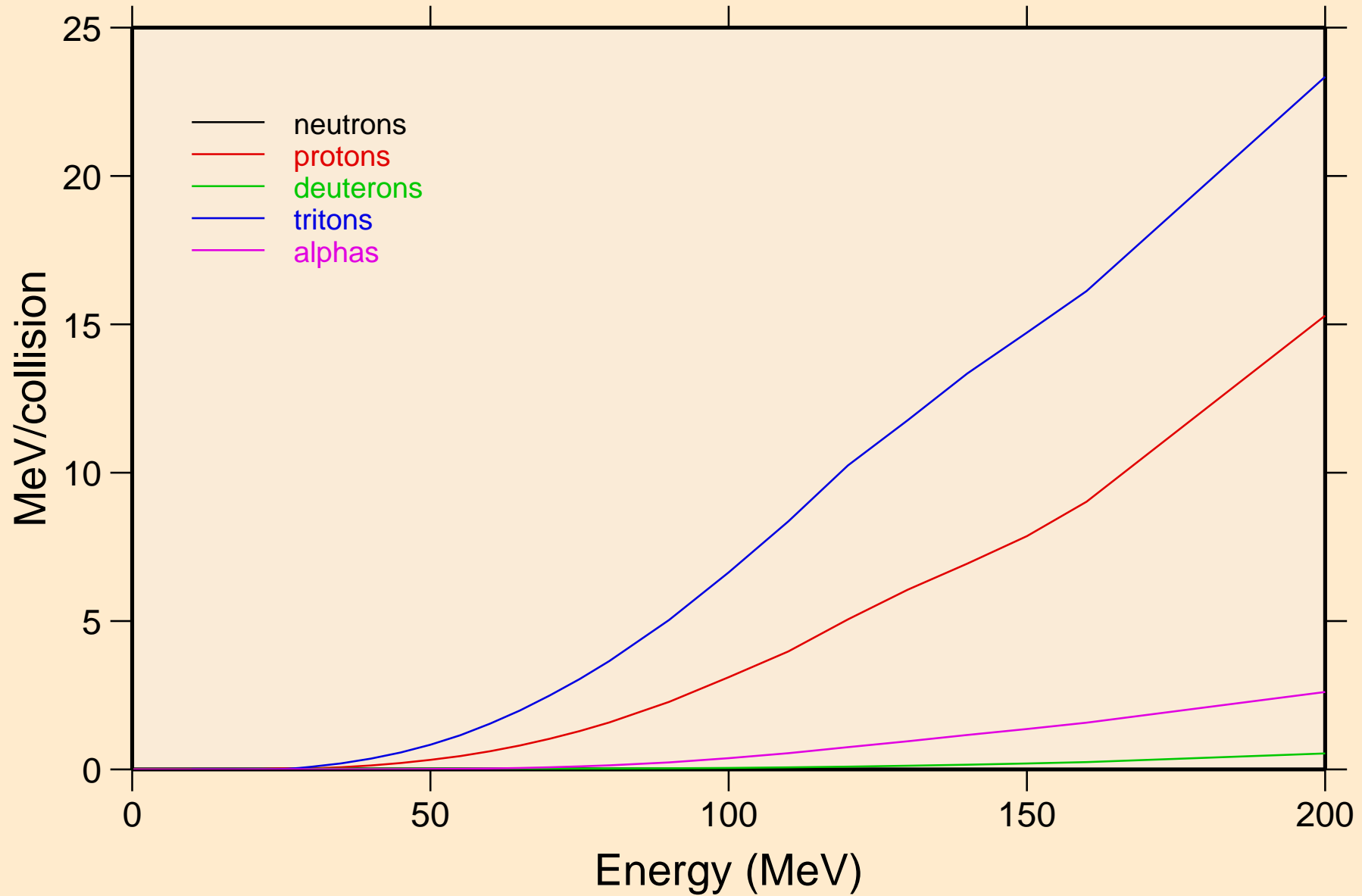


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

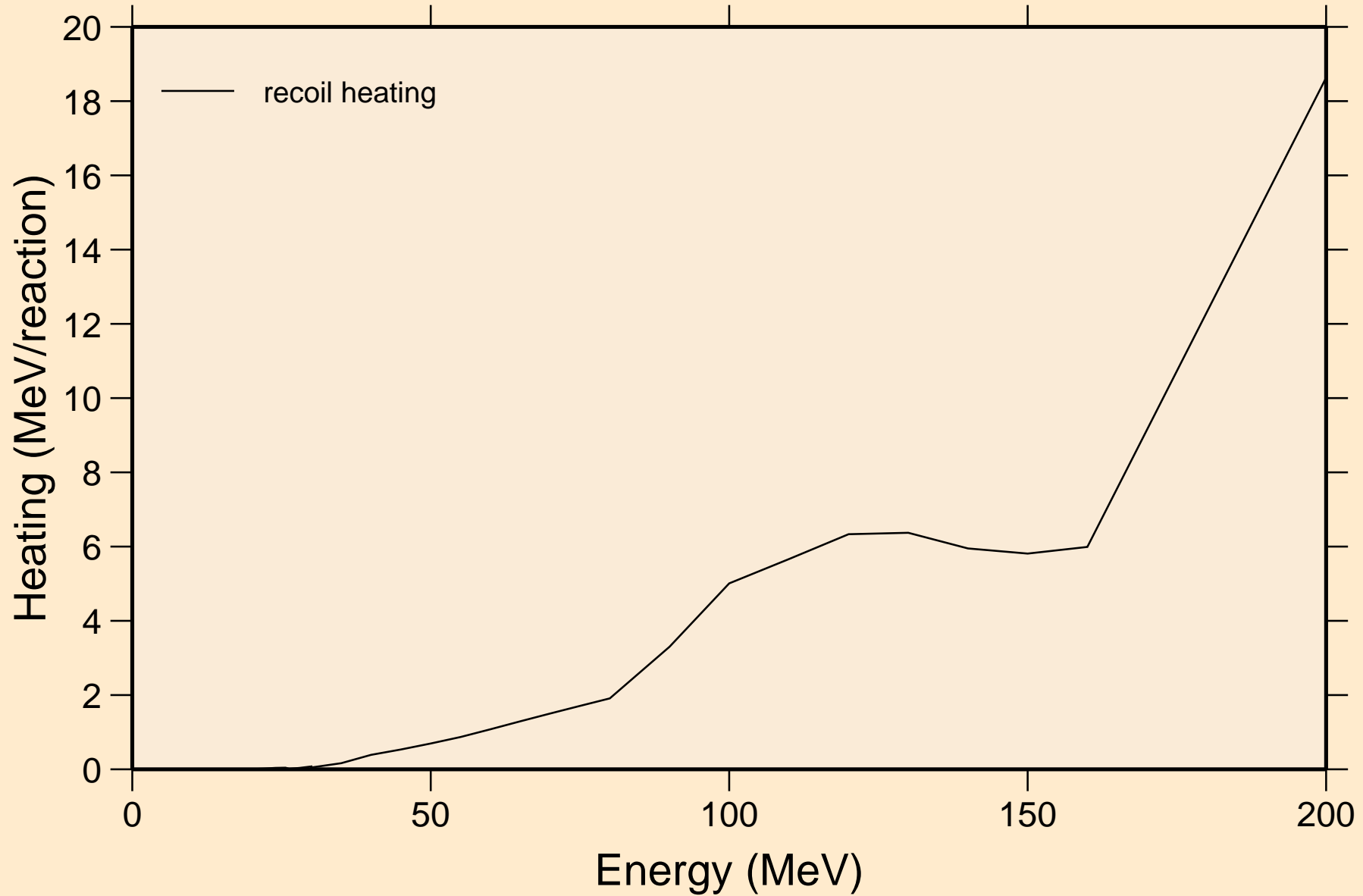


# SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K

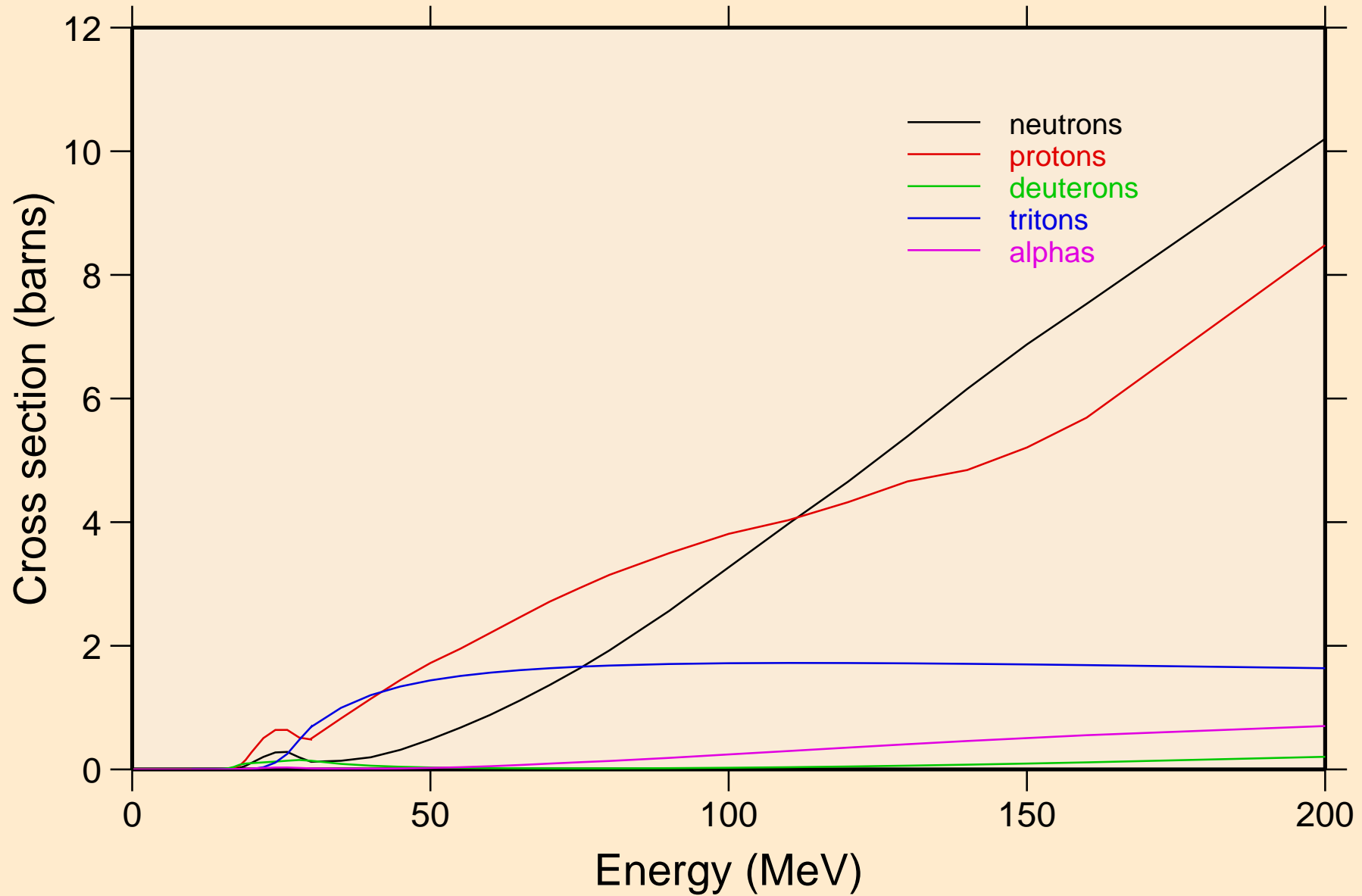
## Particle heating contributions



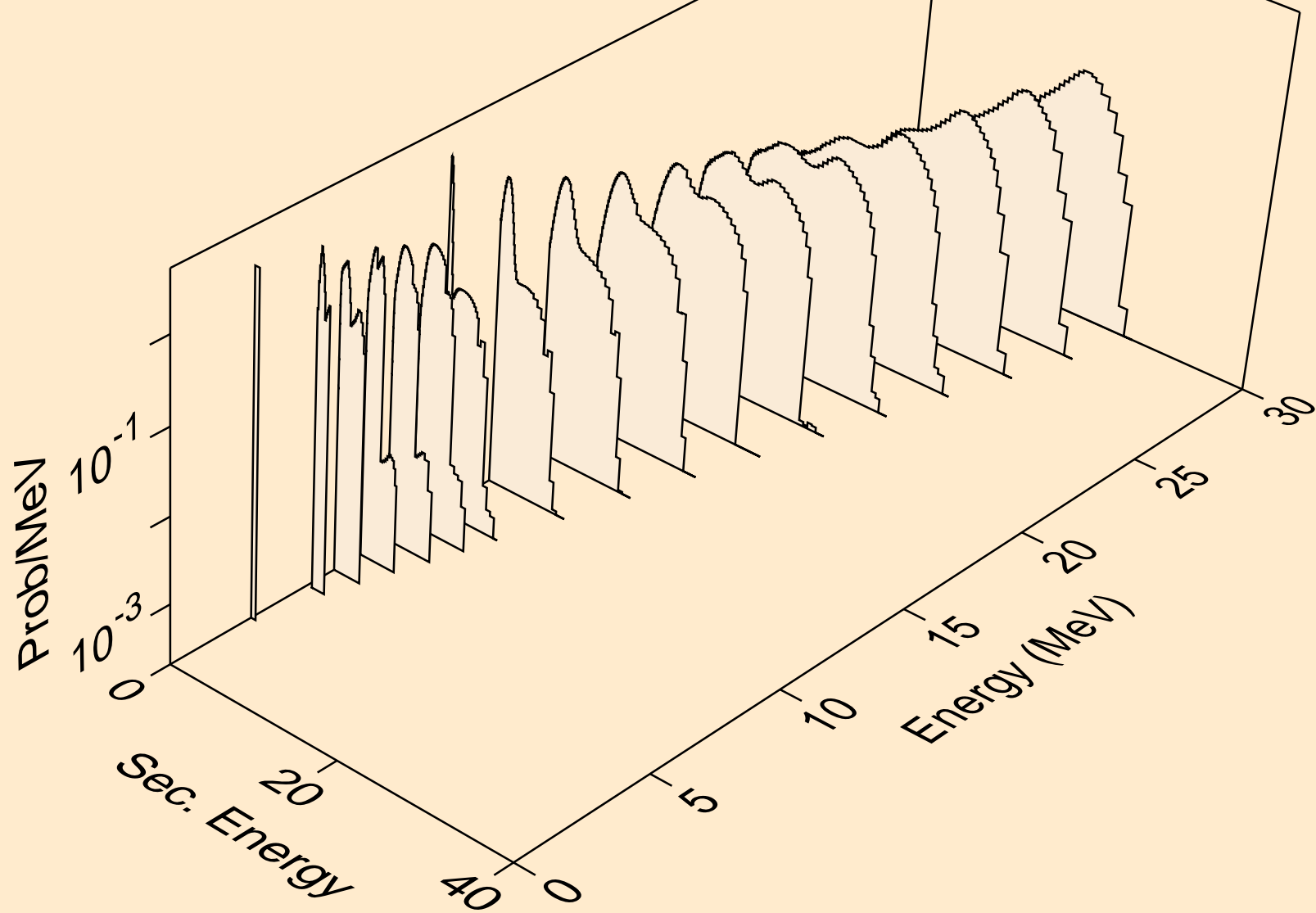
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections

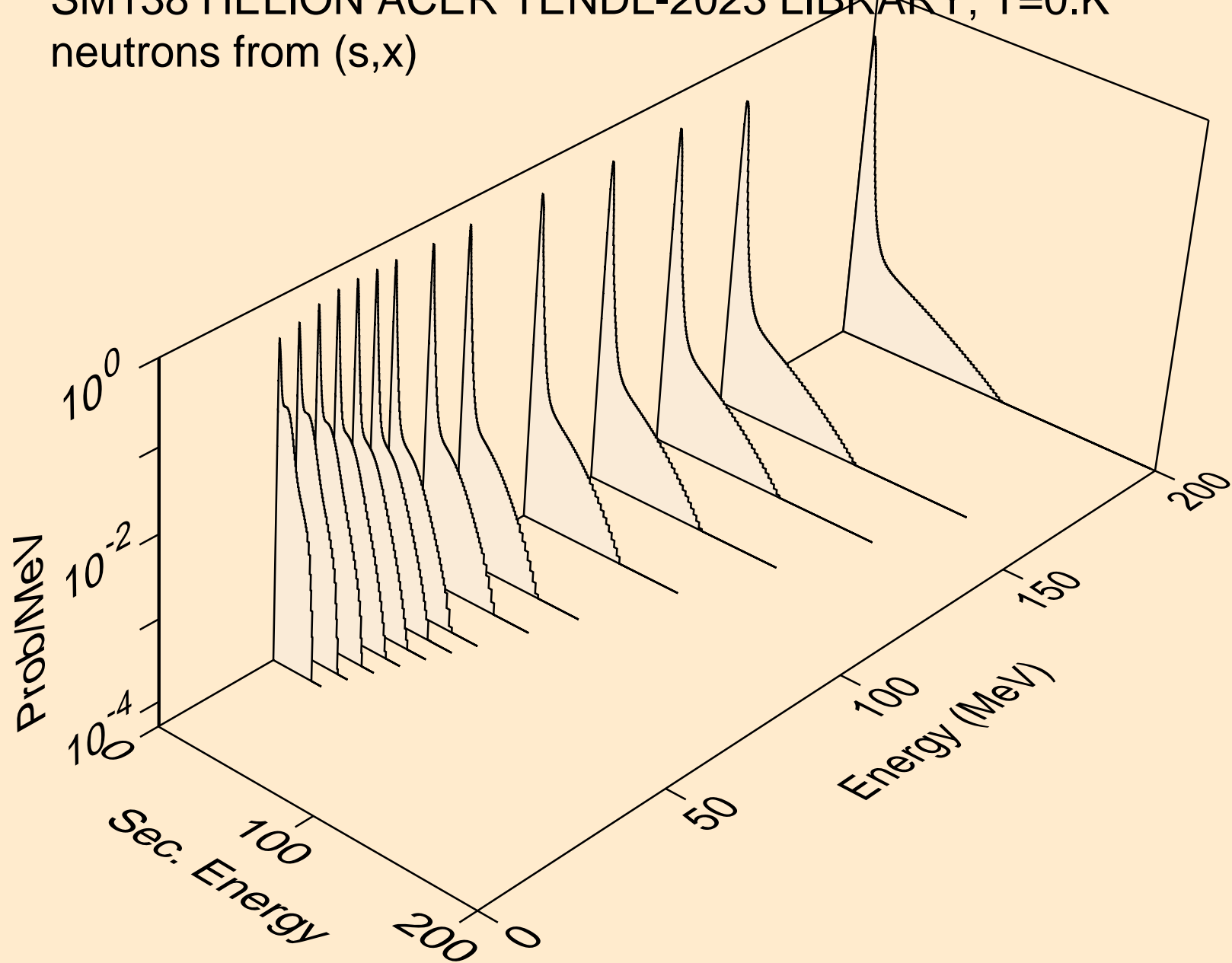


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n)

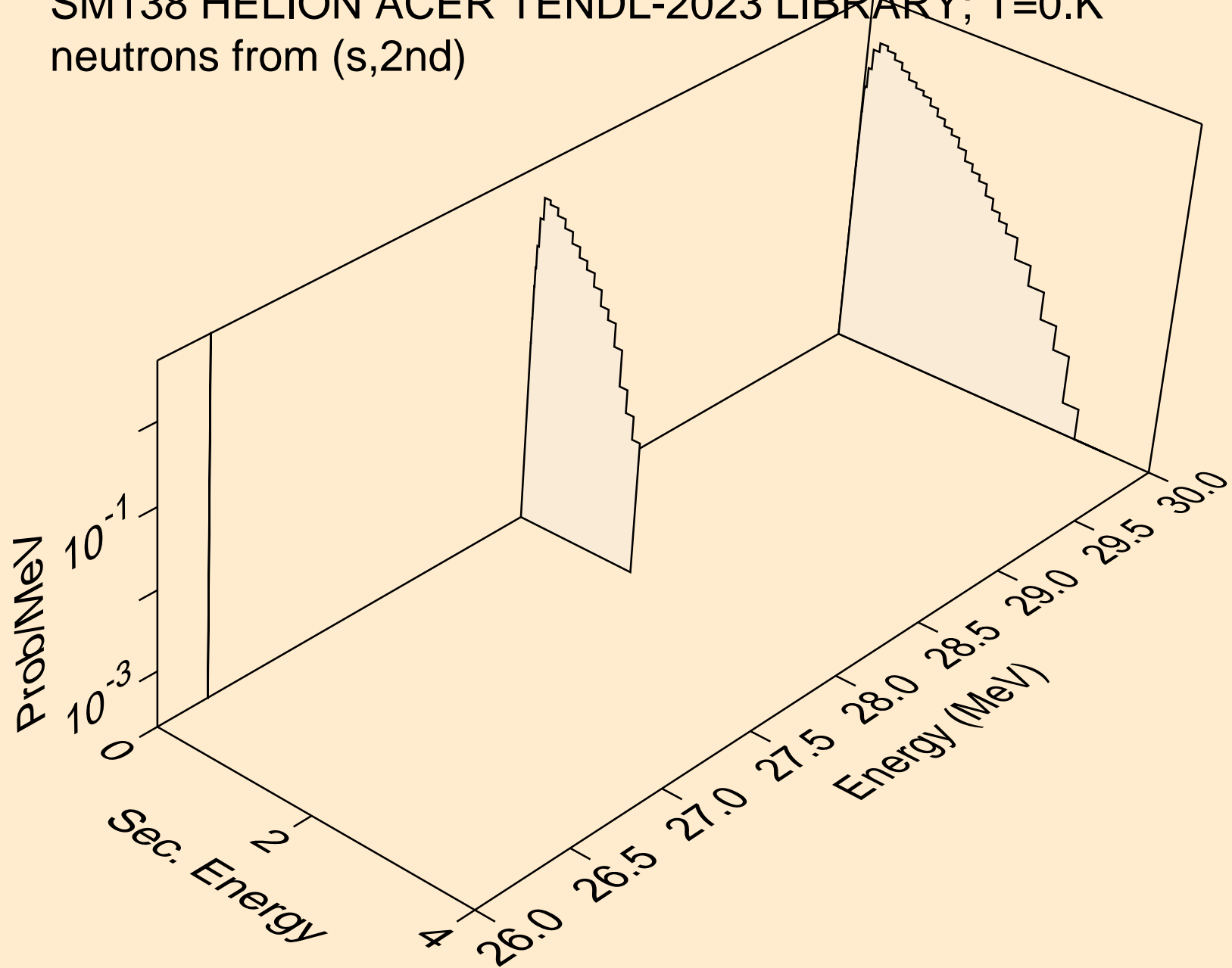




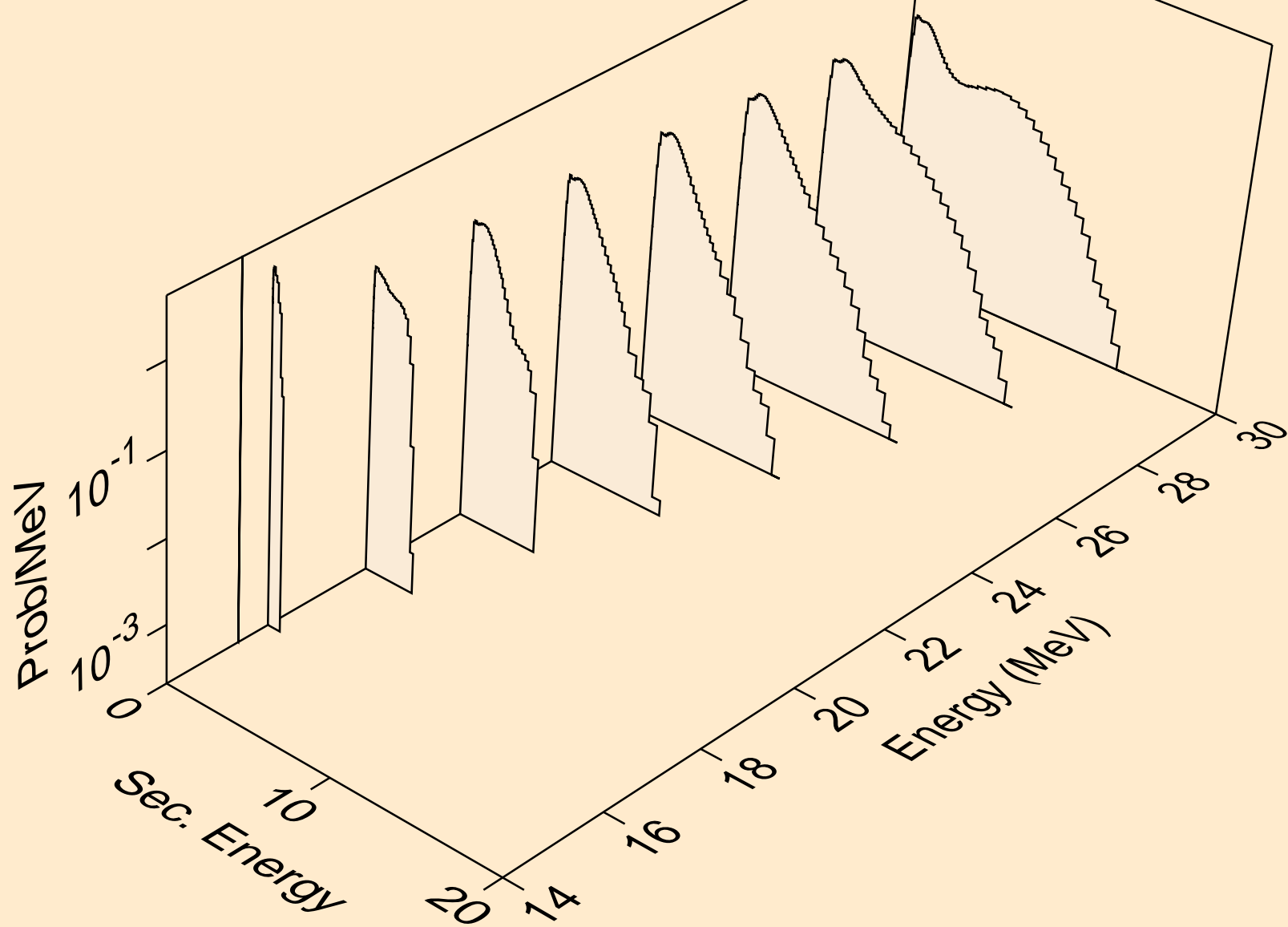
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,x)



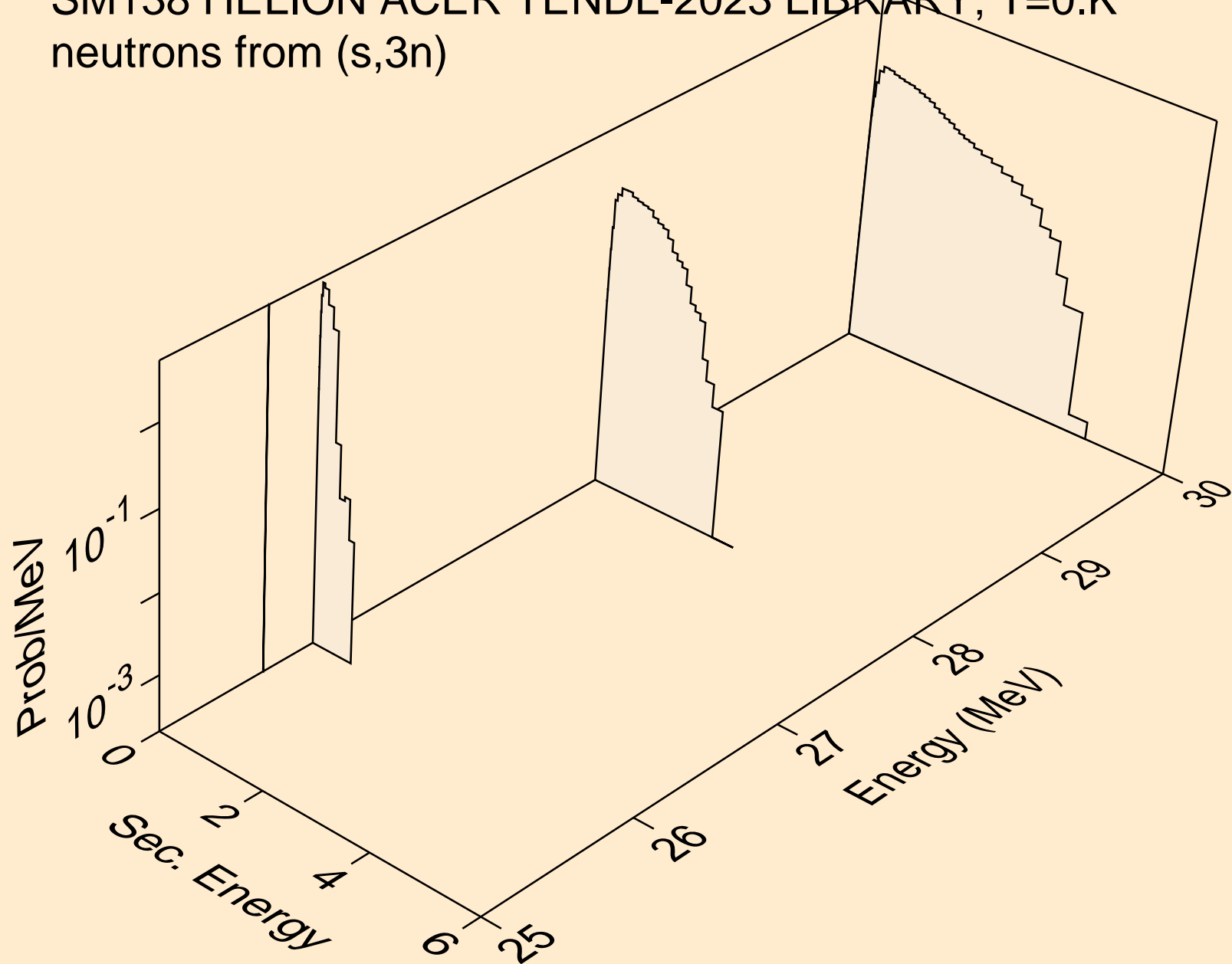
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2nd)



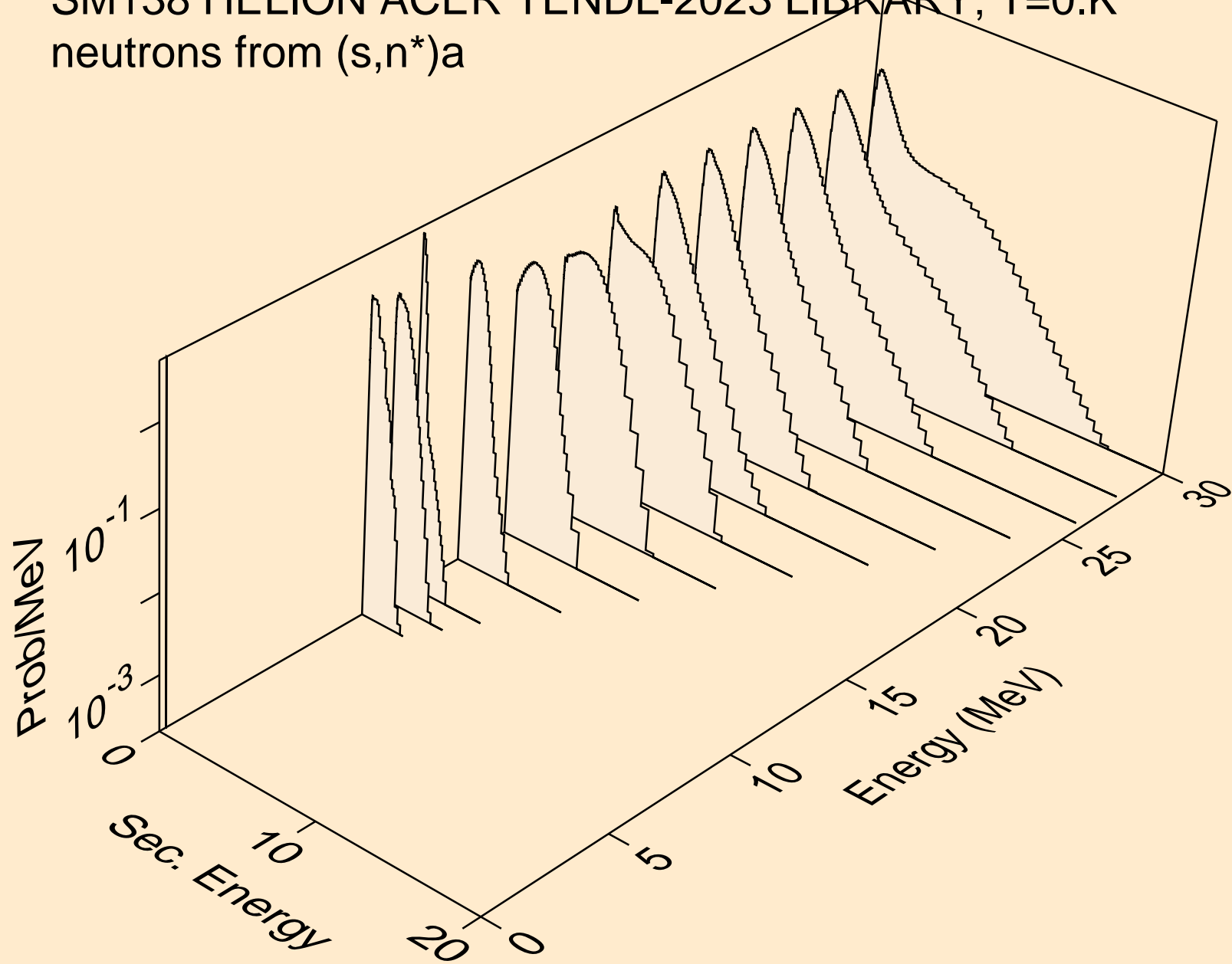
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)



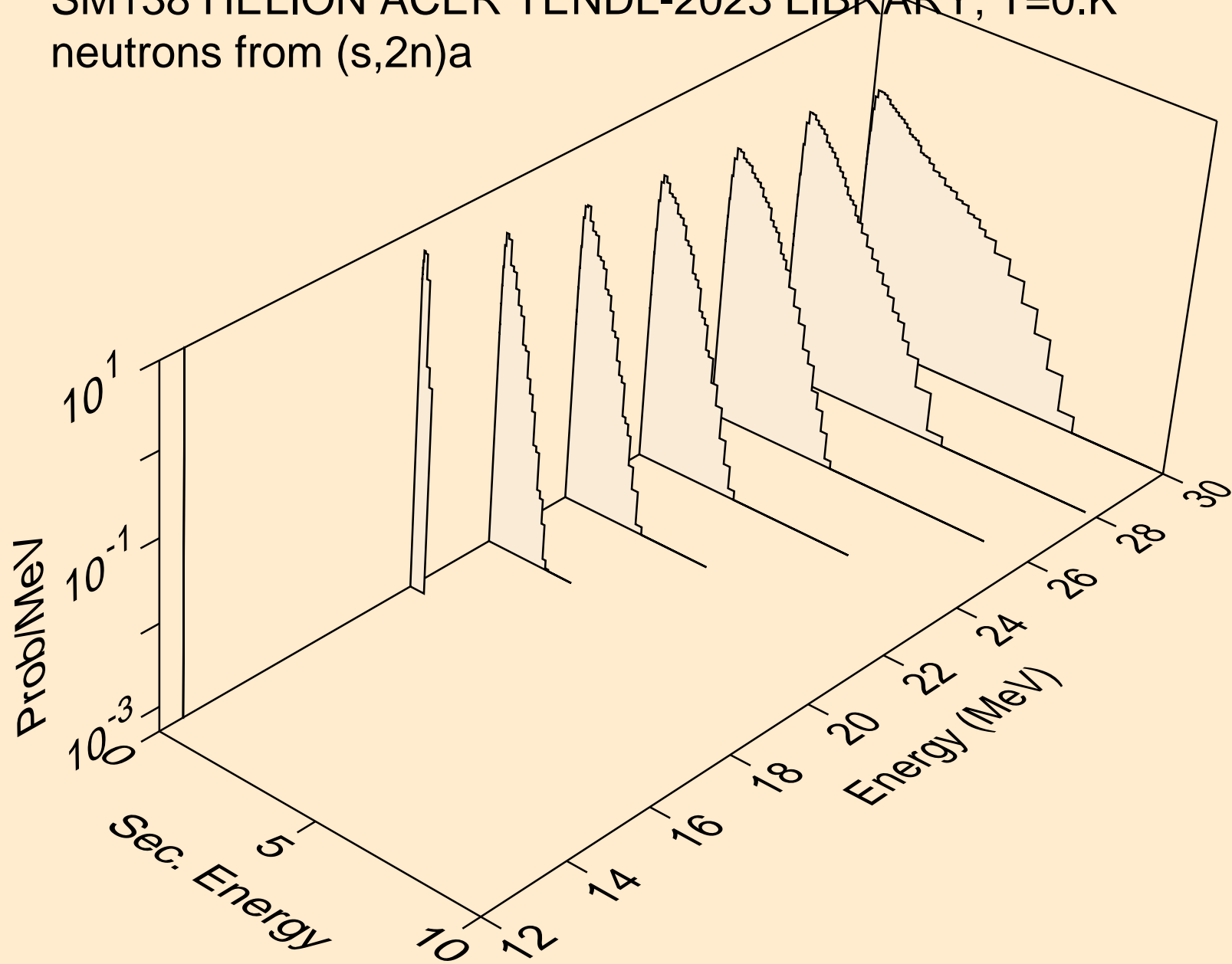
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,3n)



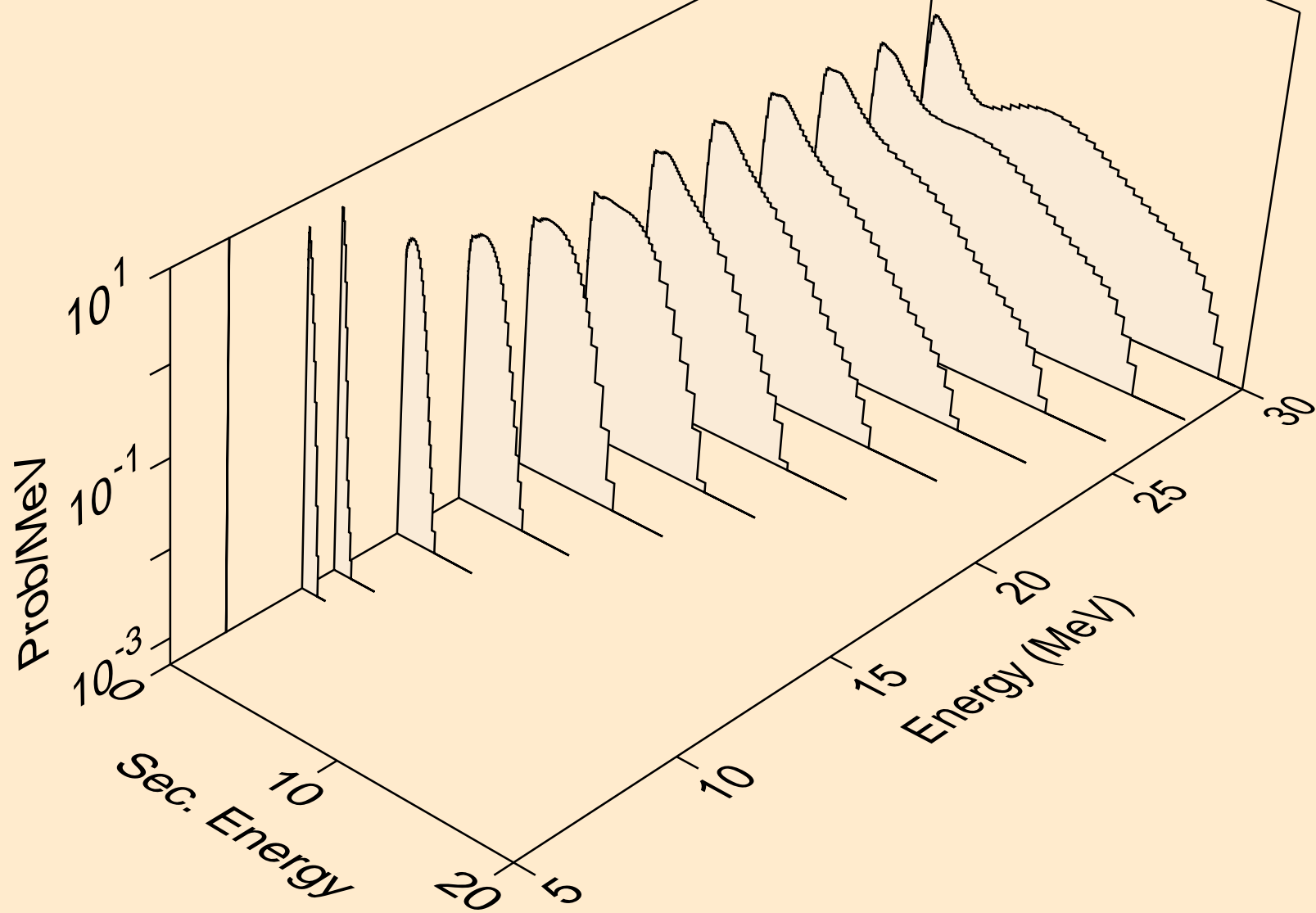
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)a



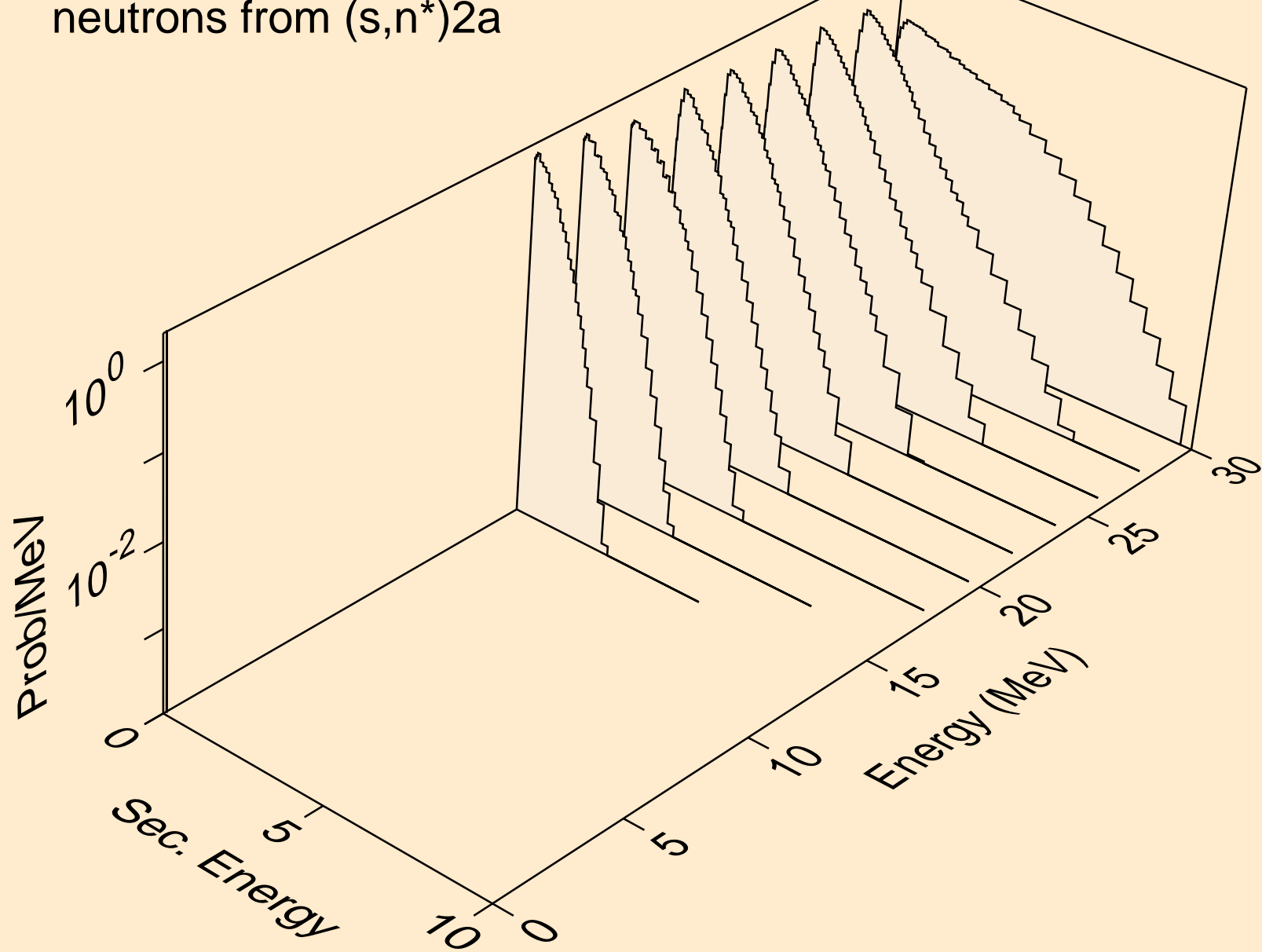
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2n)a



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)p

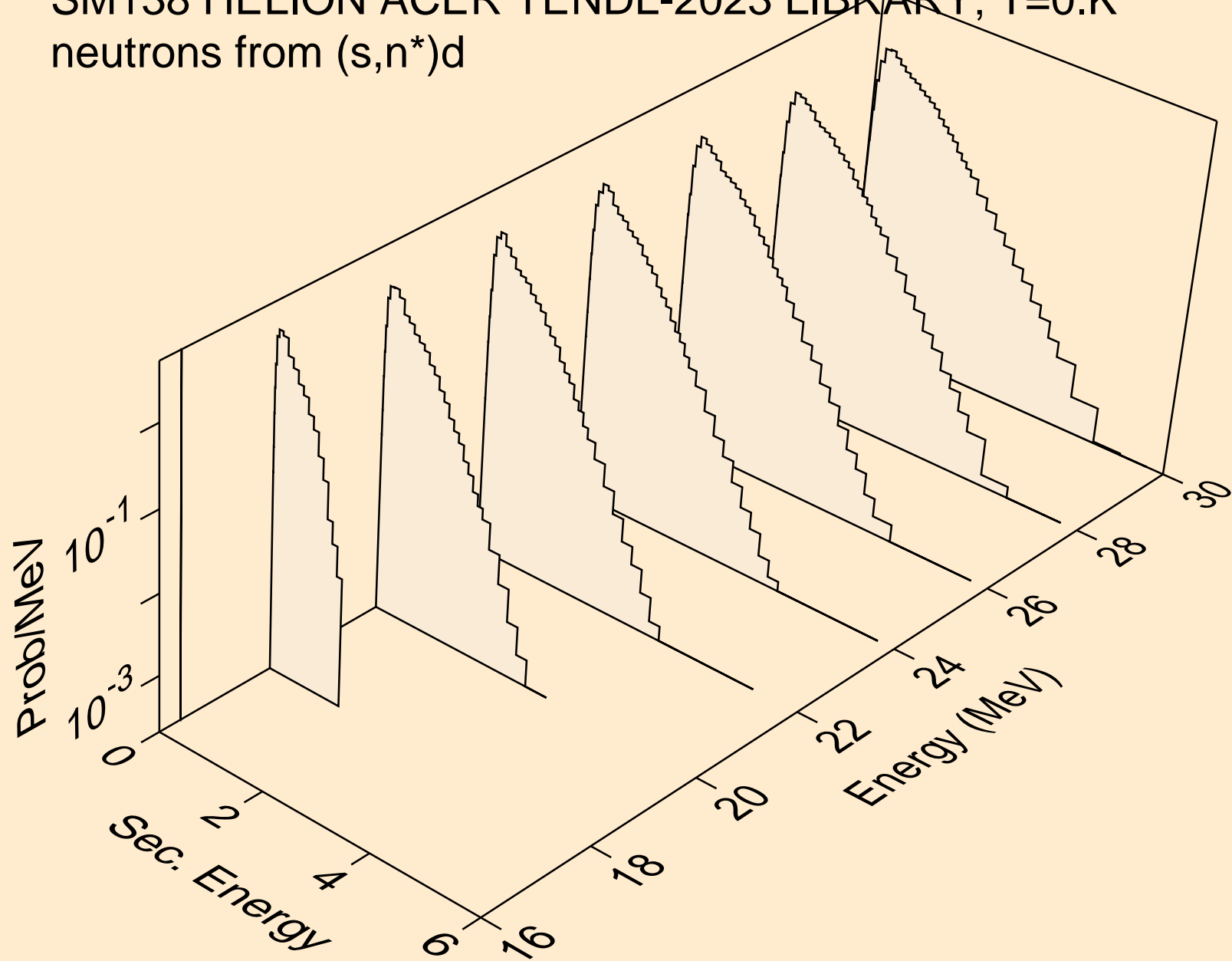


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)2a

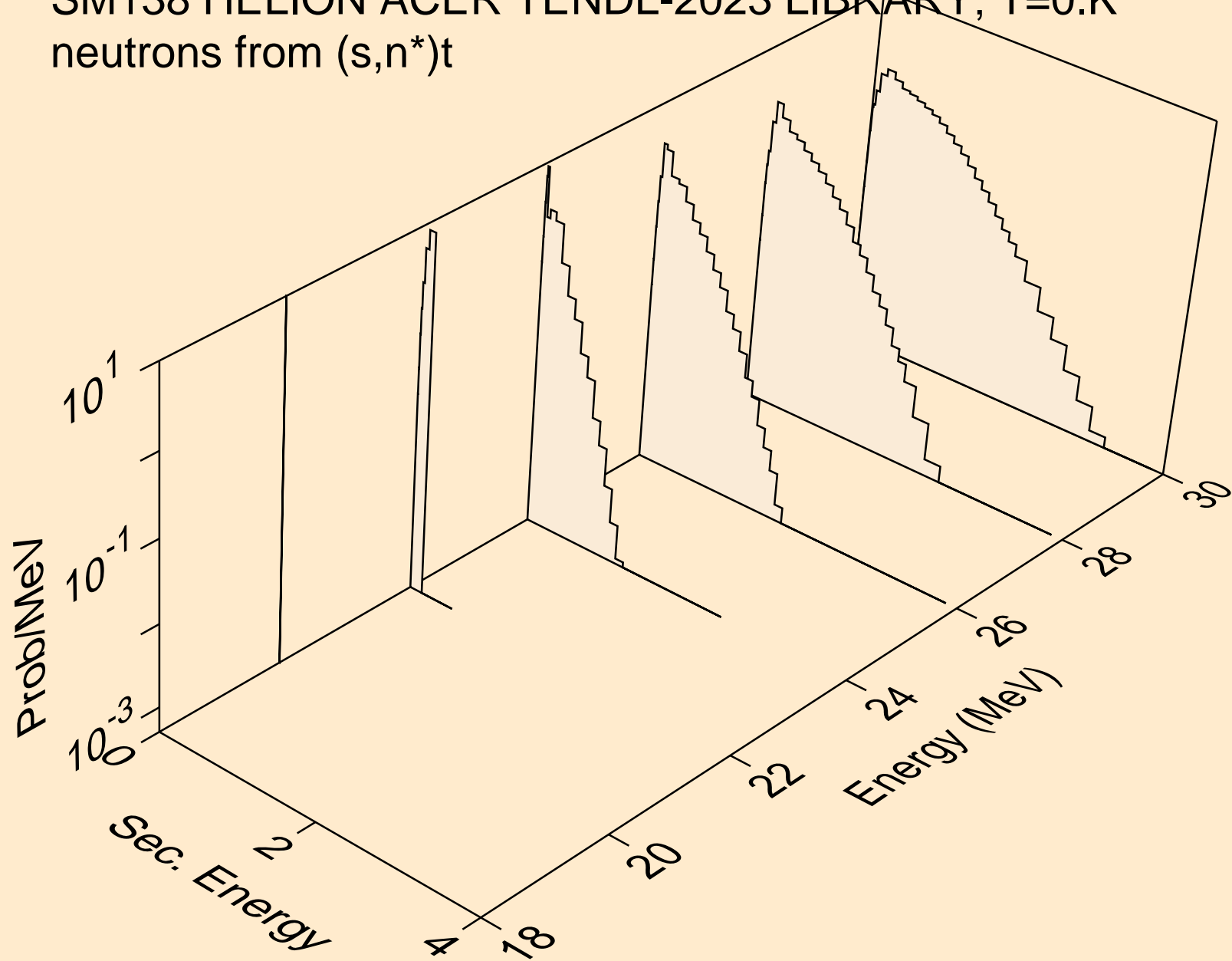




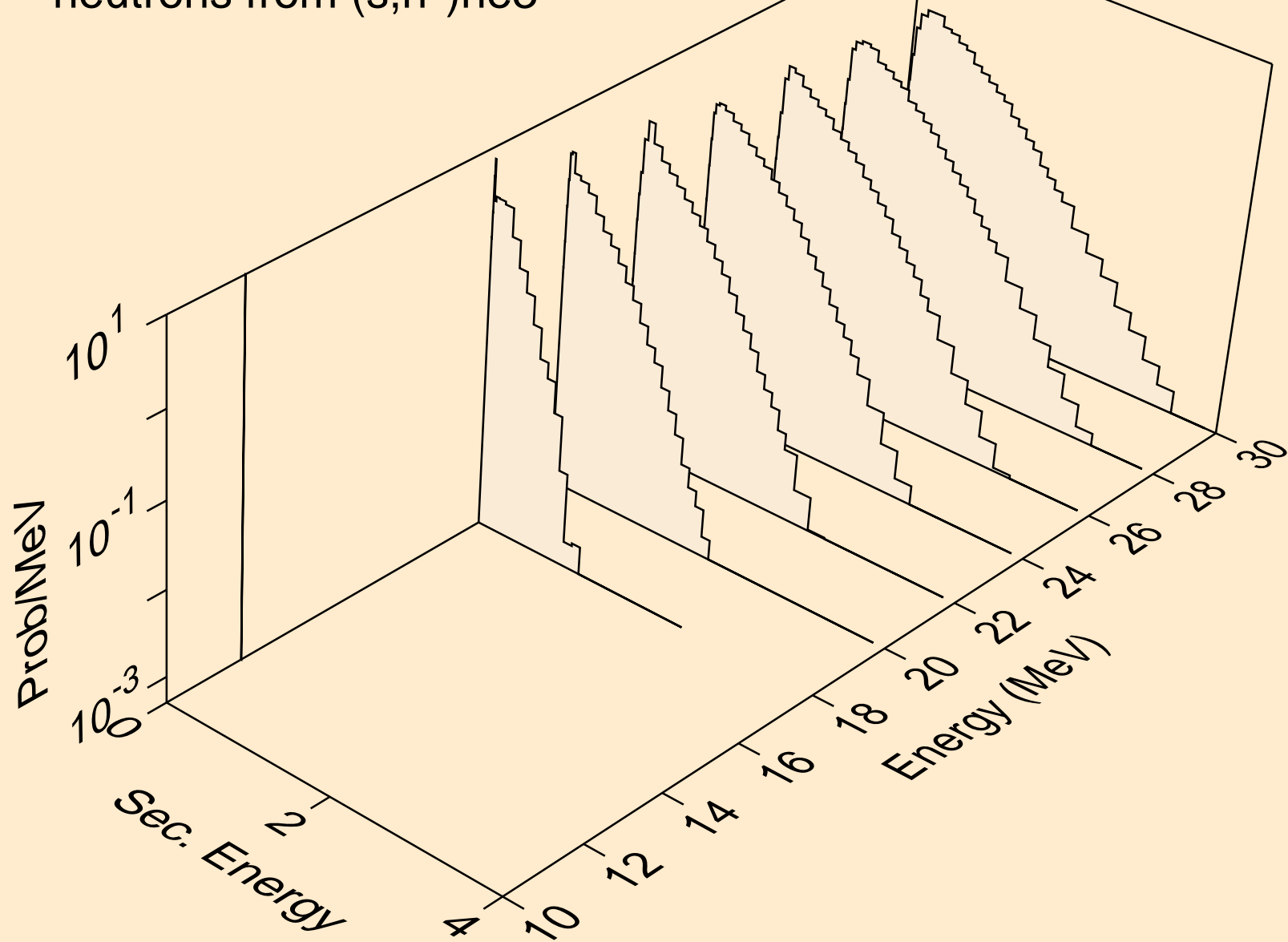
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)d



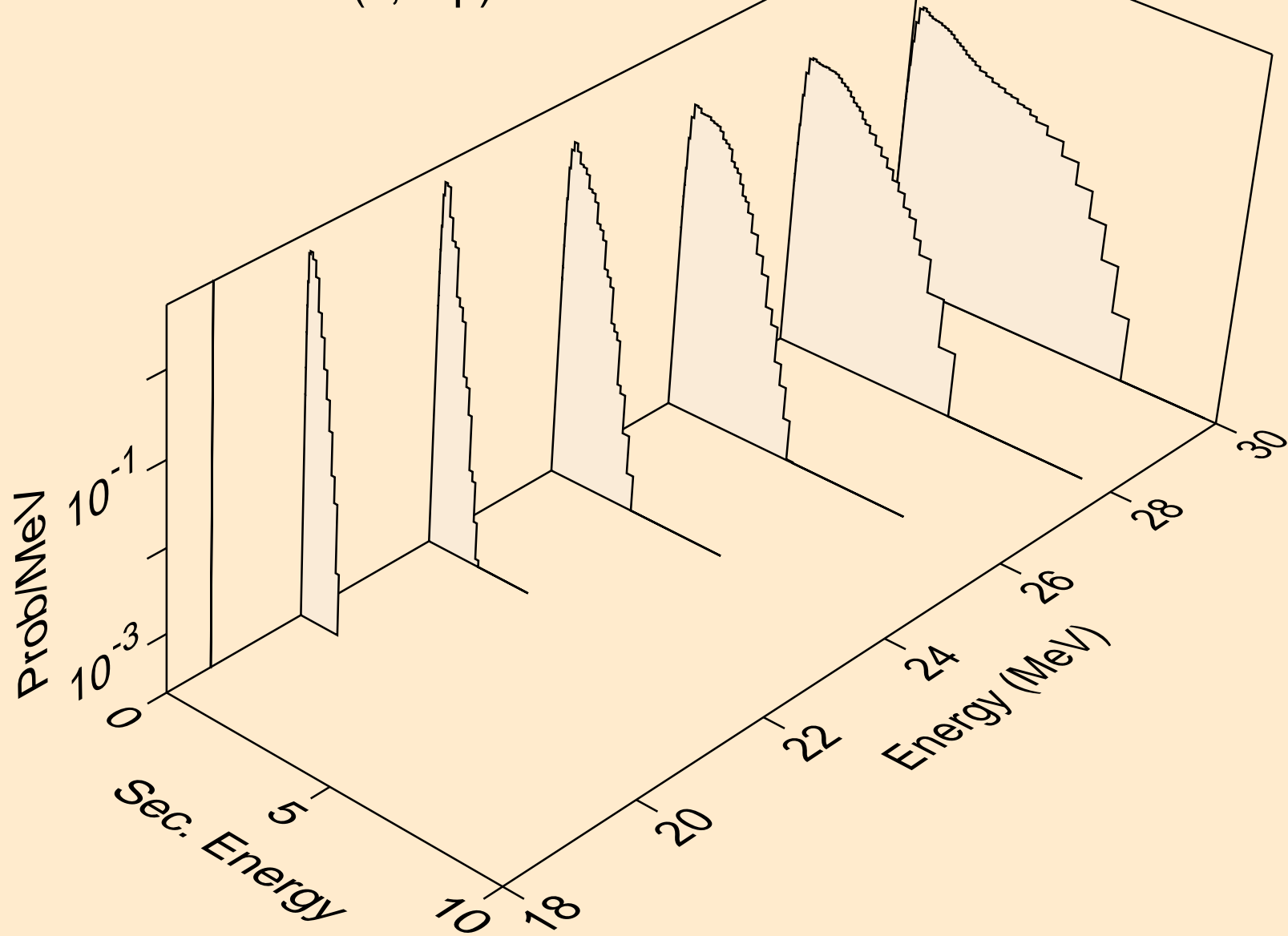
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)t



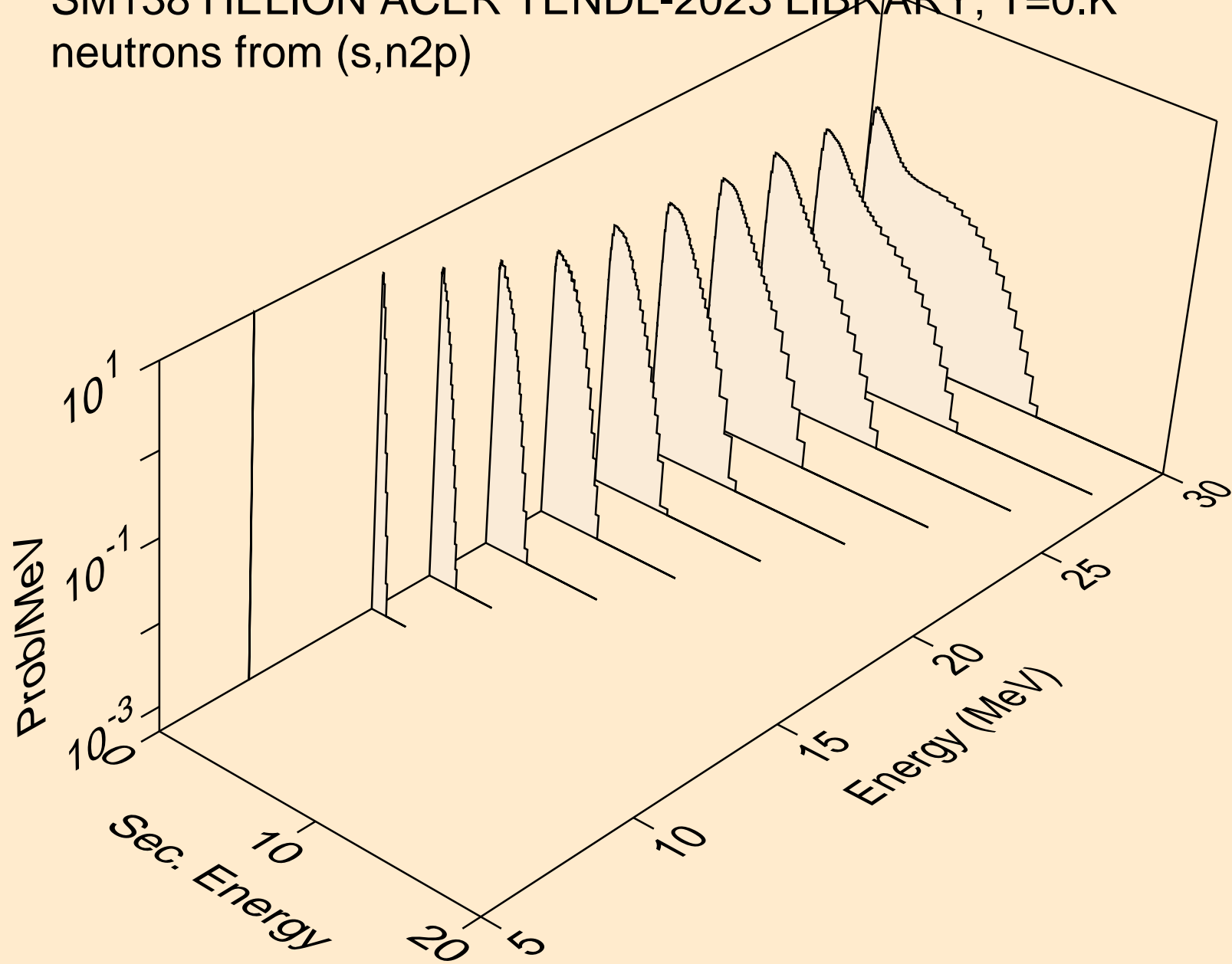
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



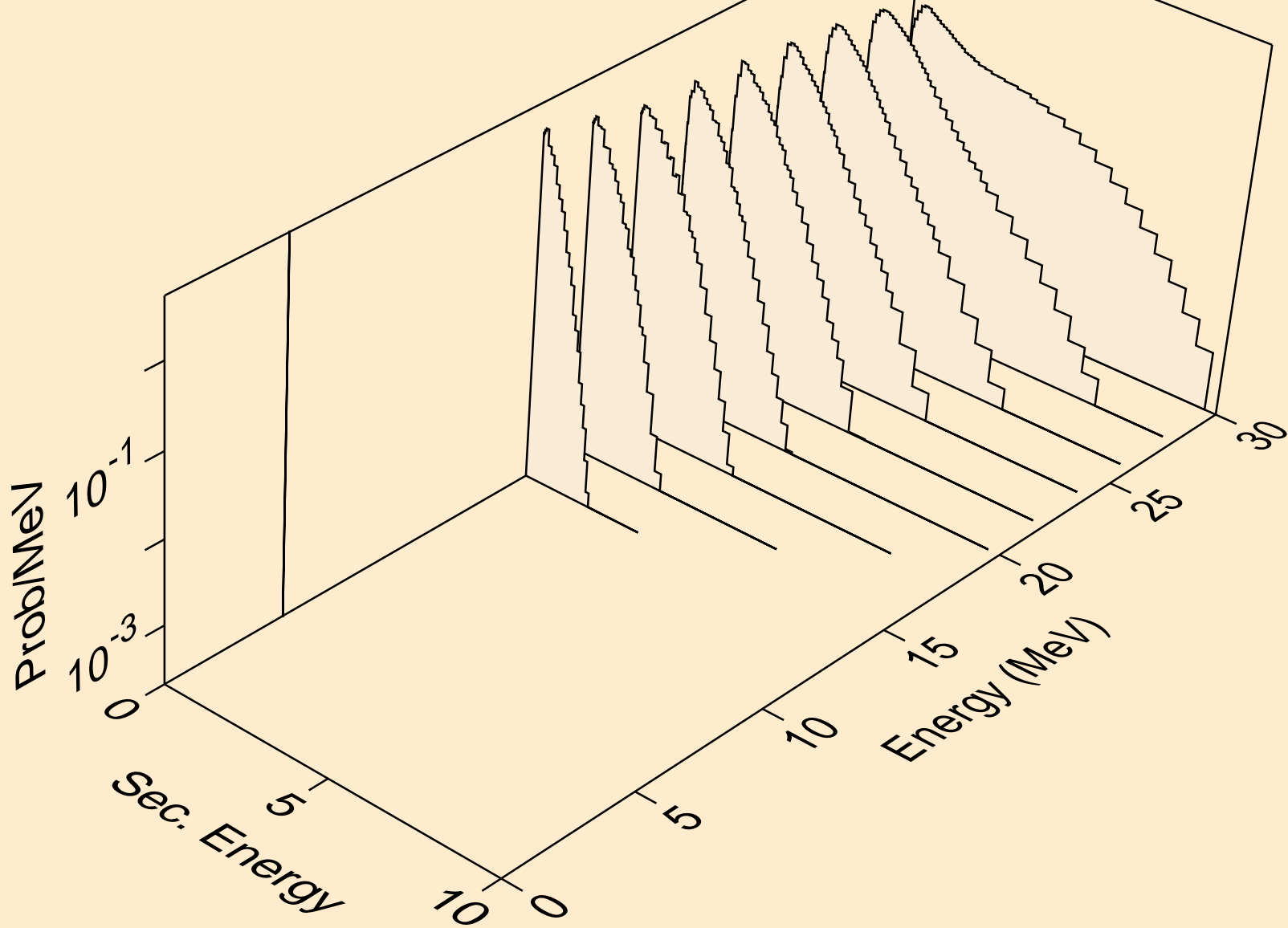
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,2np)



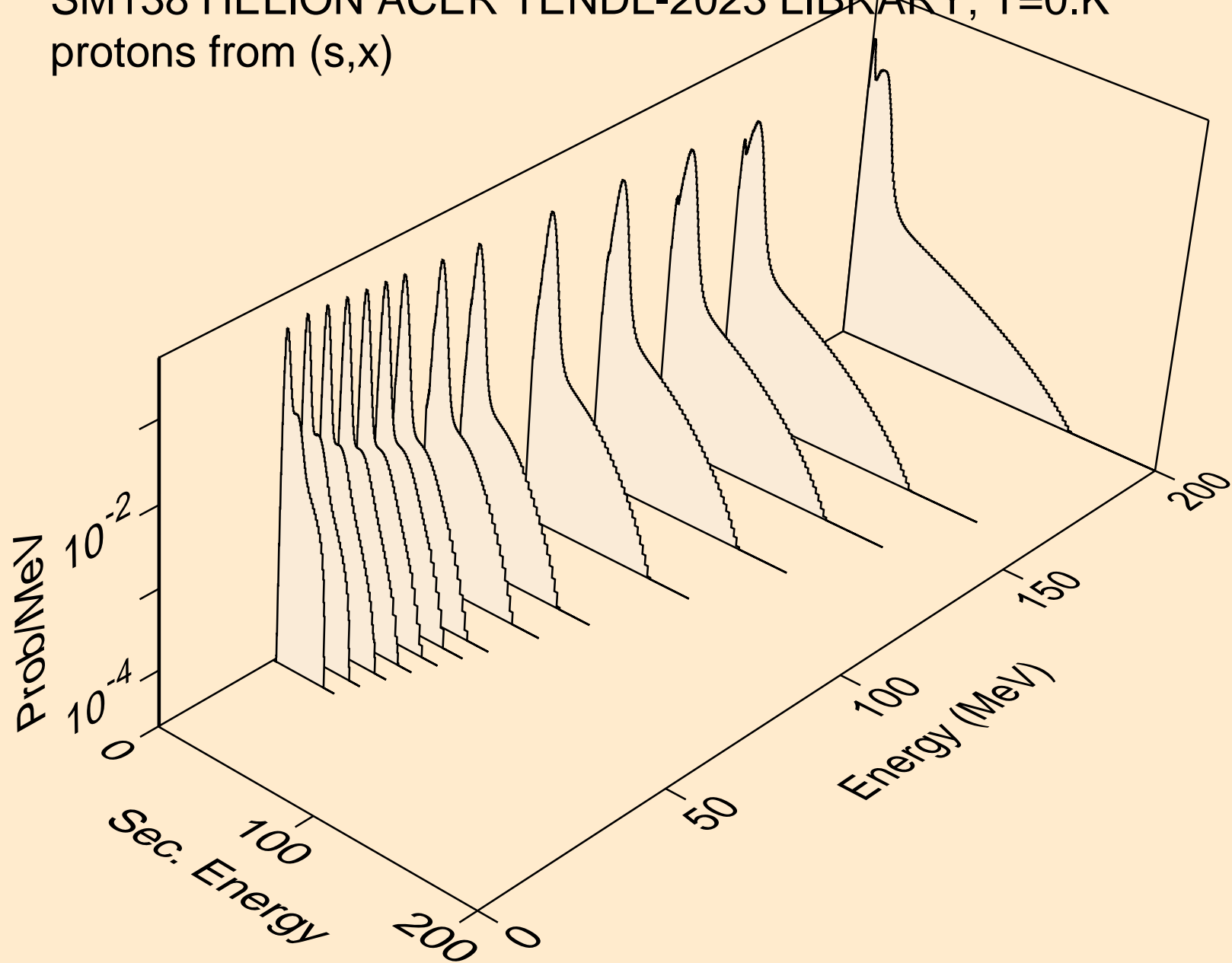
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,n2p)



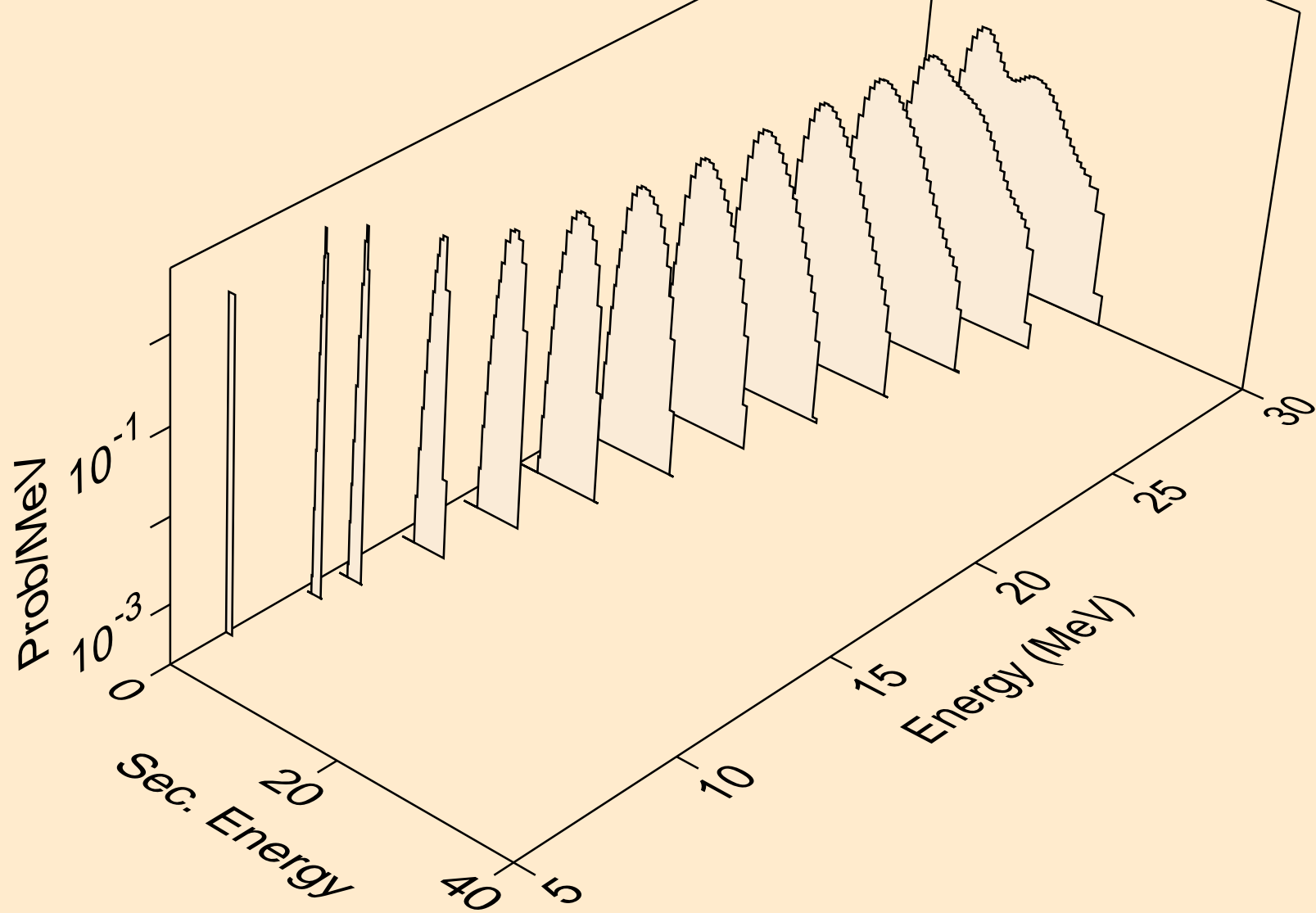
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (s,npa)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,x)

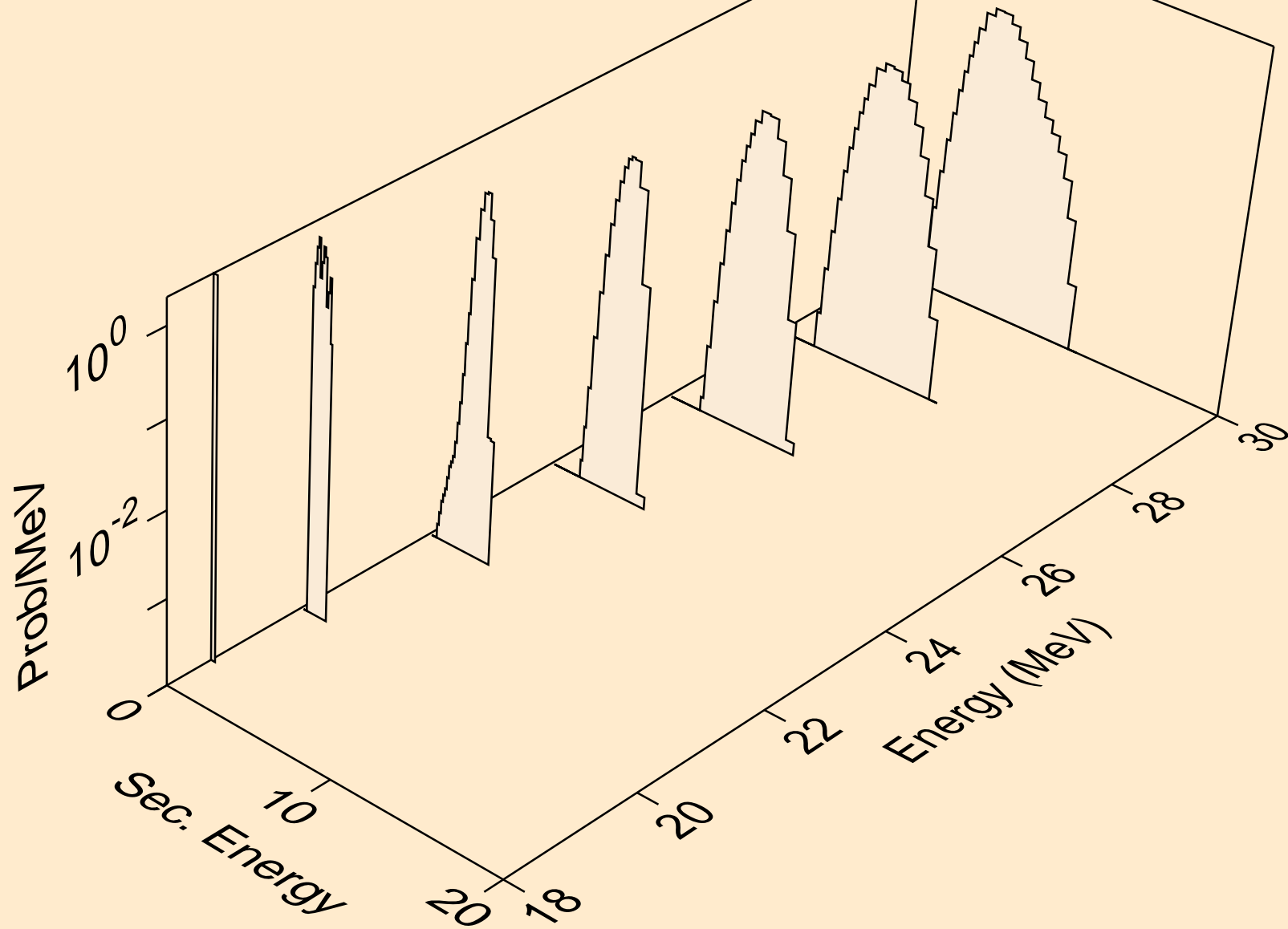


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,n\*)p

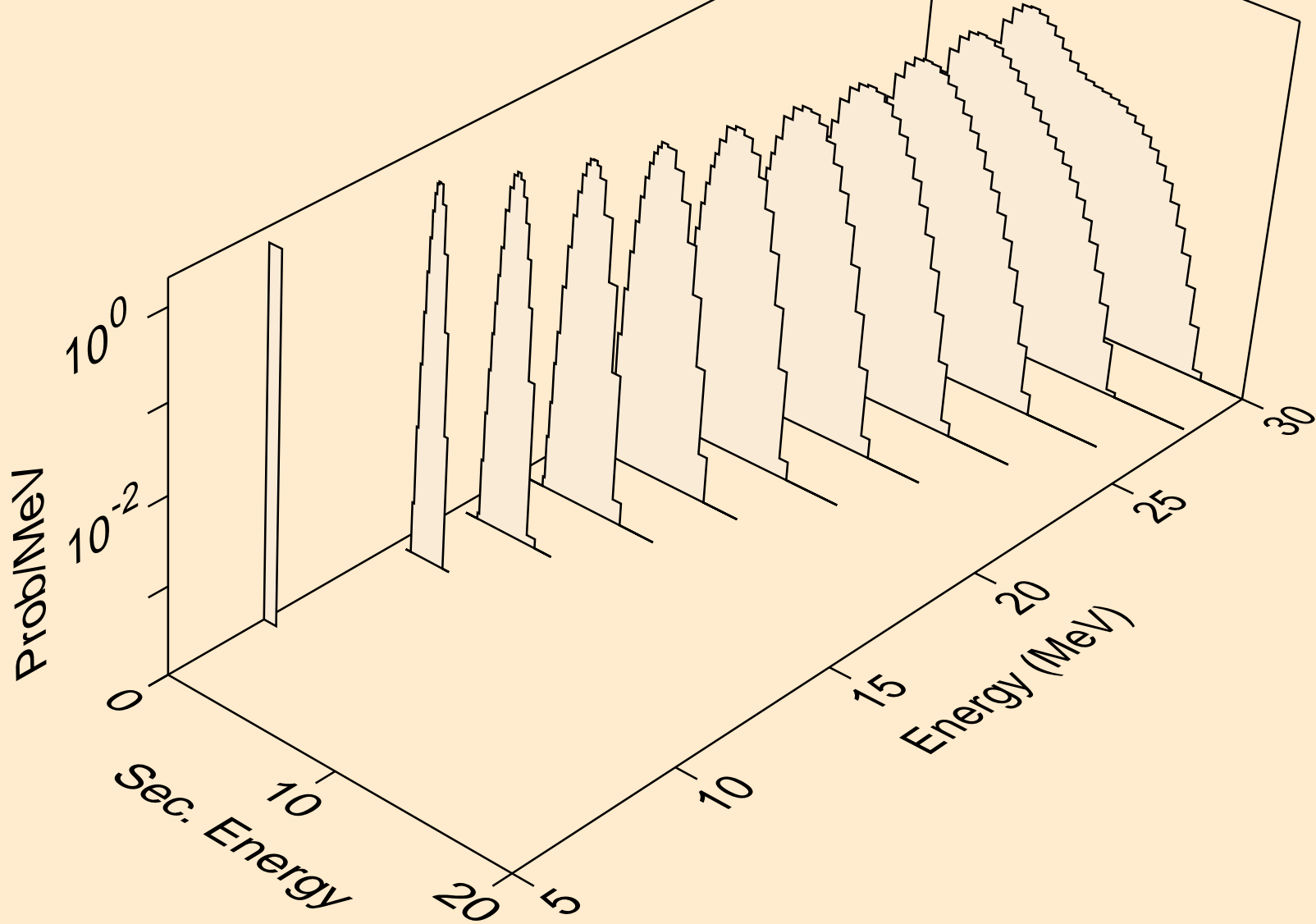




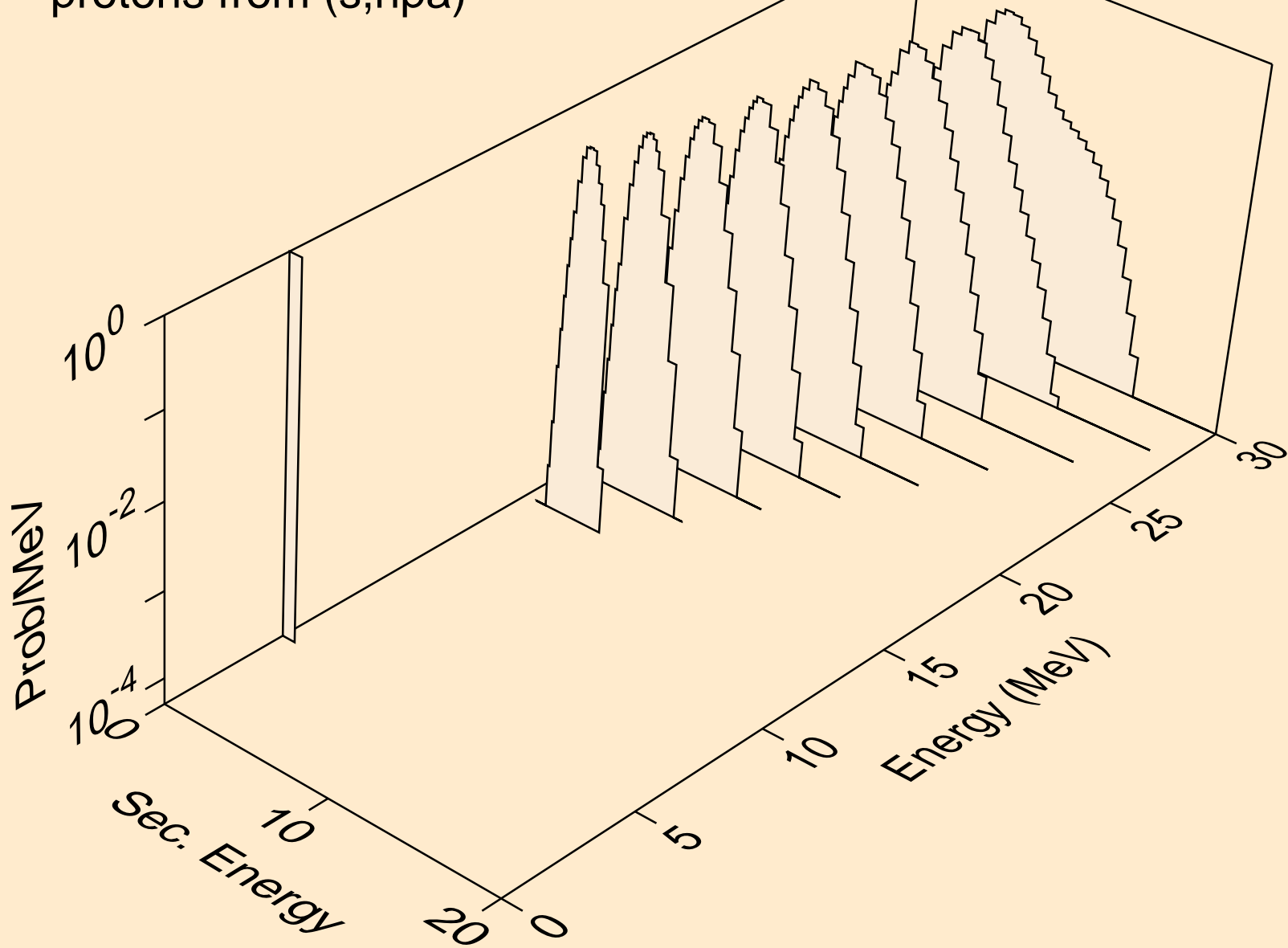
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,2np)



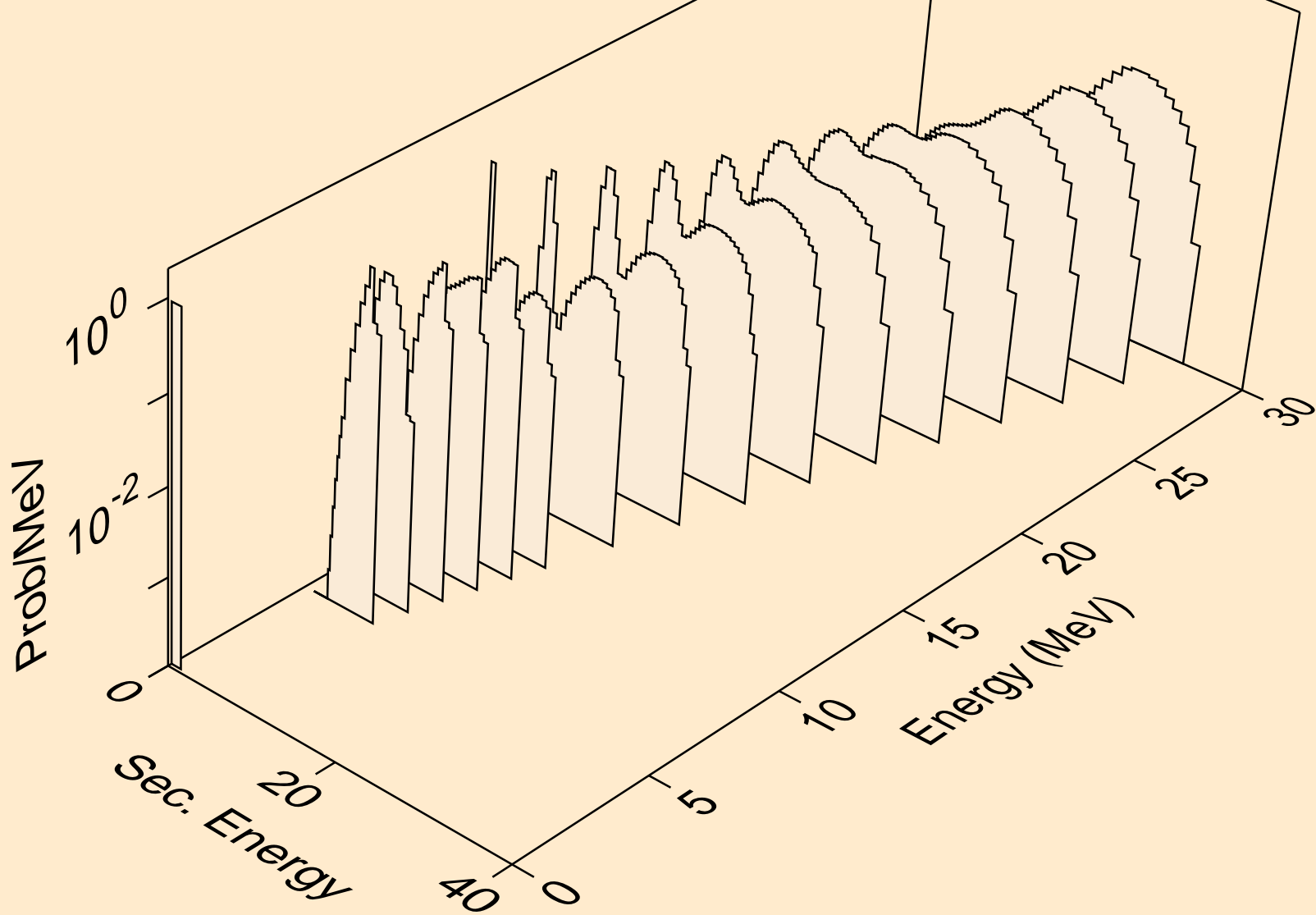
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,n2p)



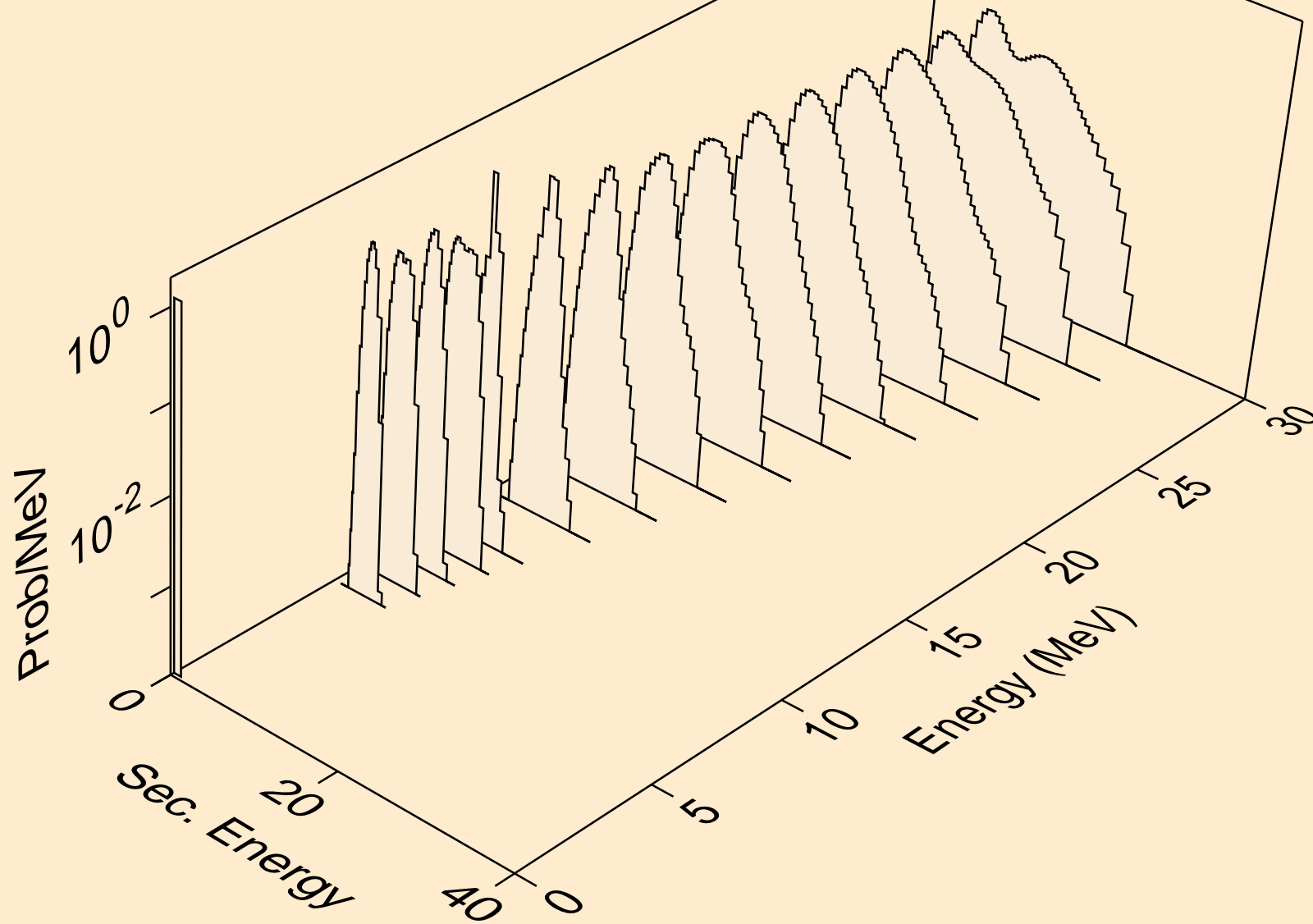
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,npa)



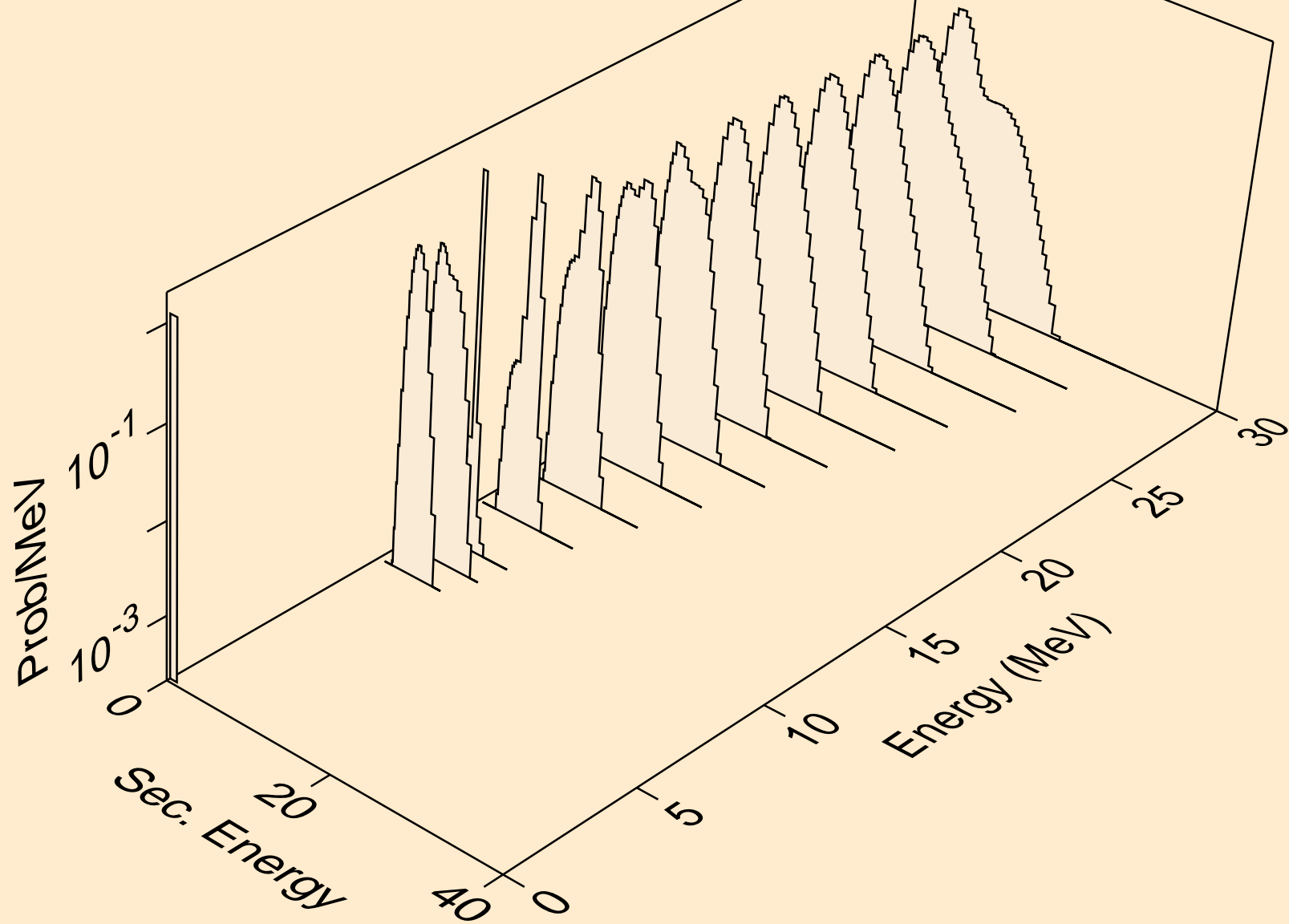
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,p)



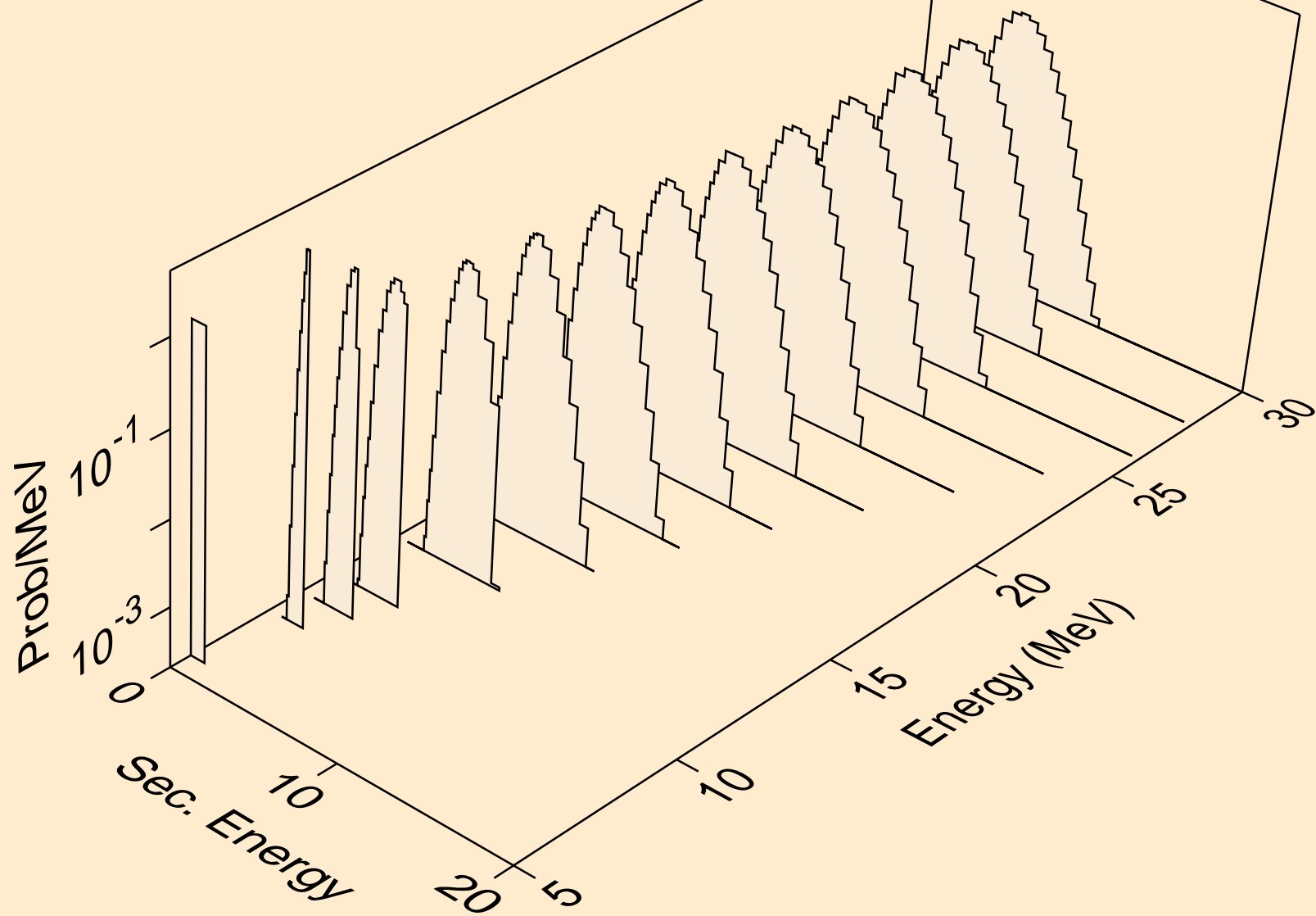
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,2p)



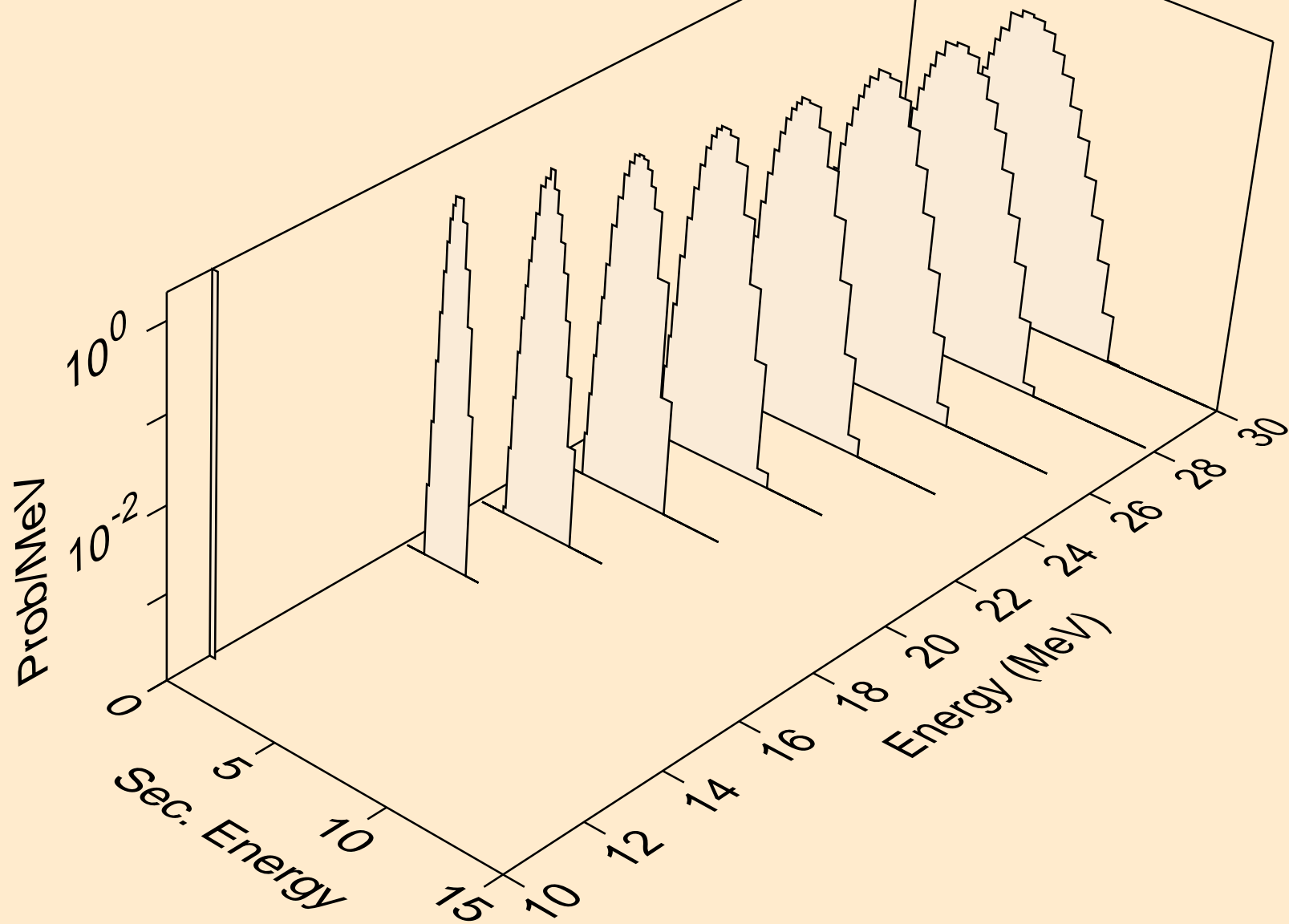
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,pa)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,pd)

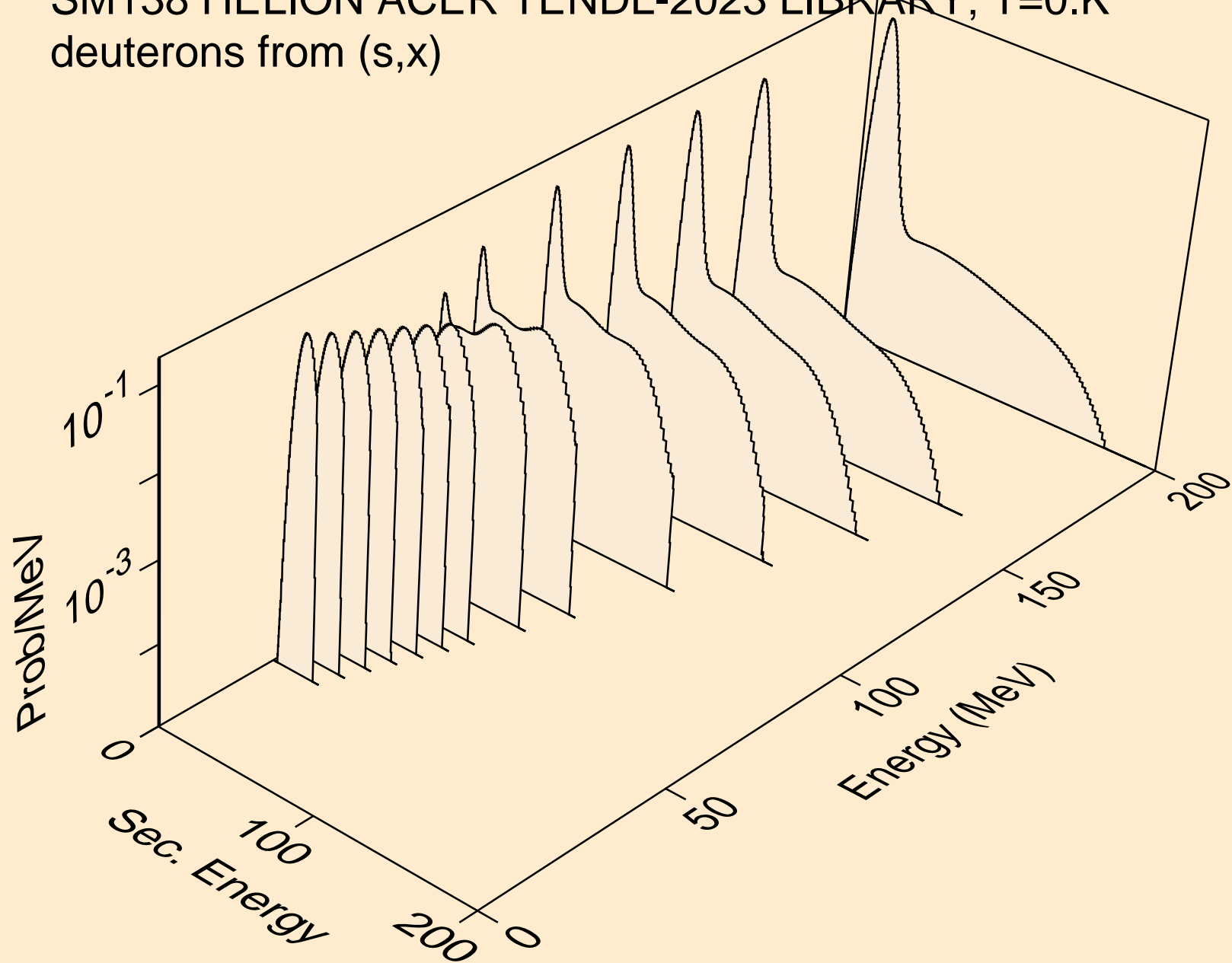


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
protons from (s,pt)

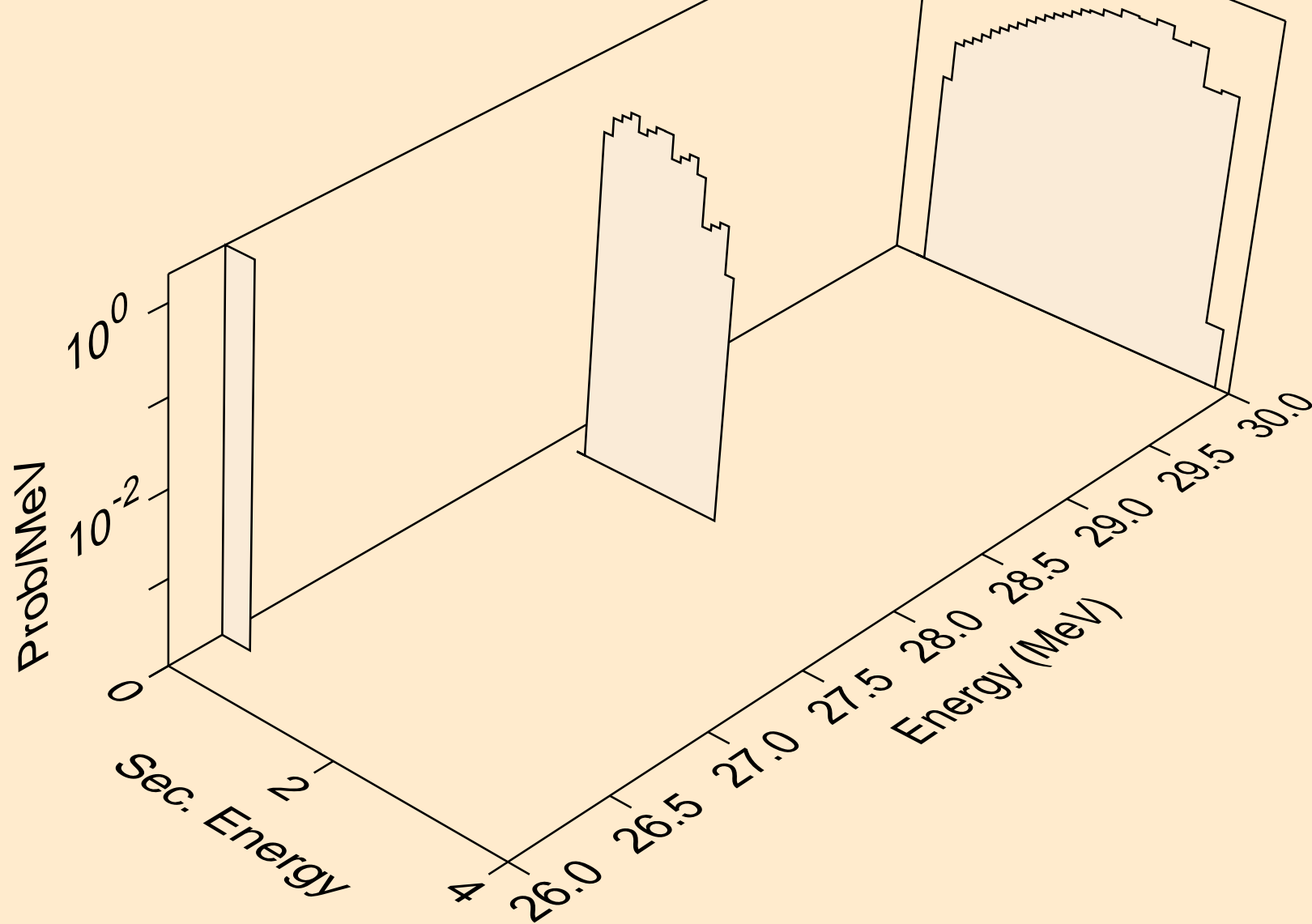




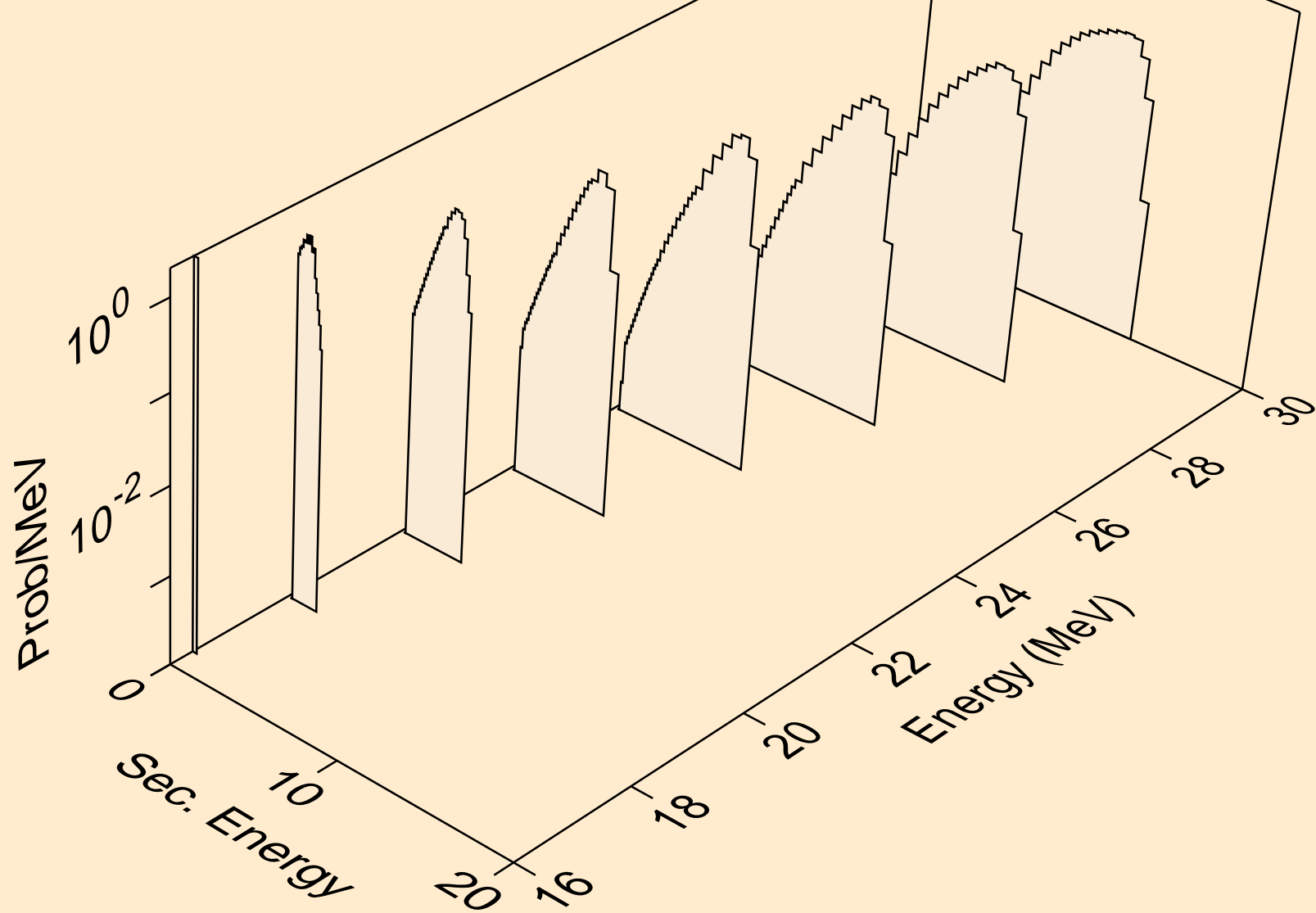
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,x)



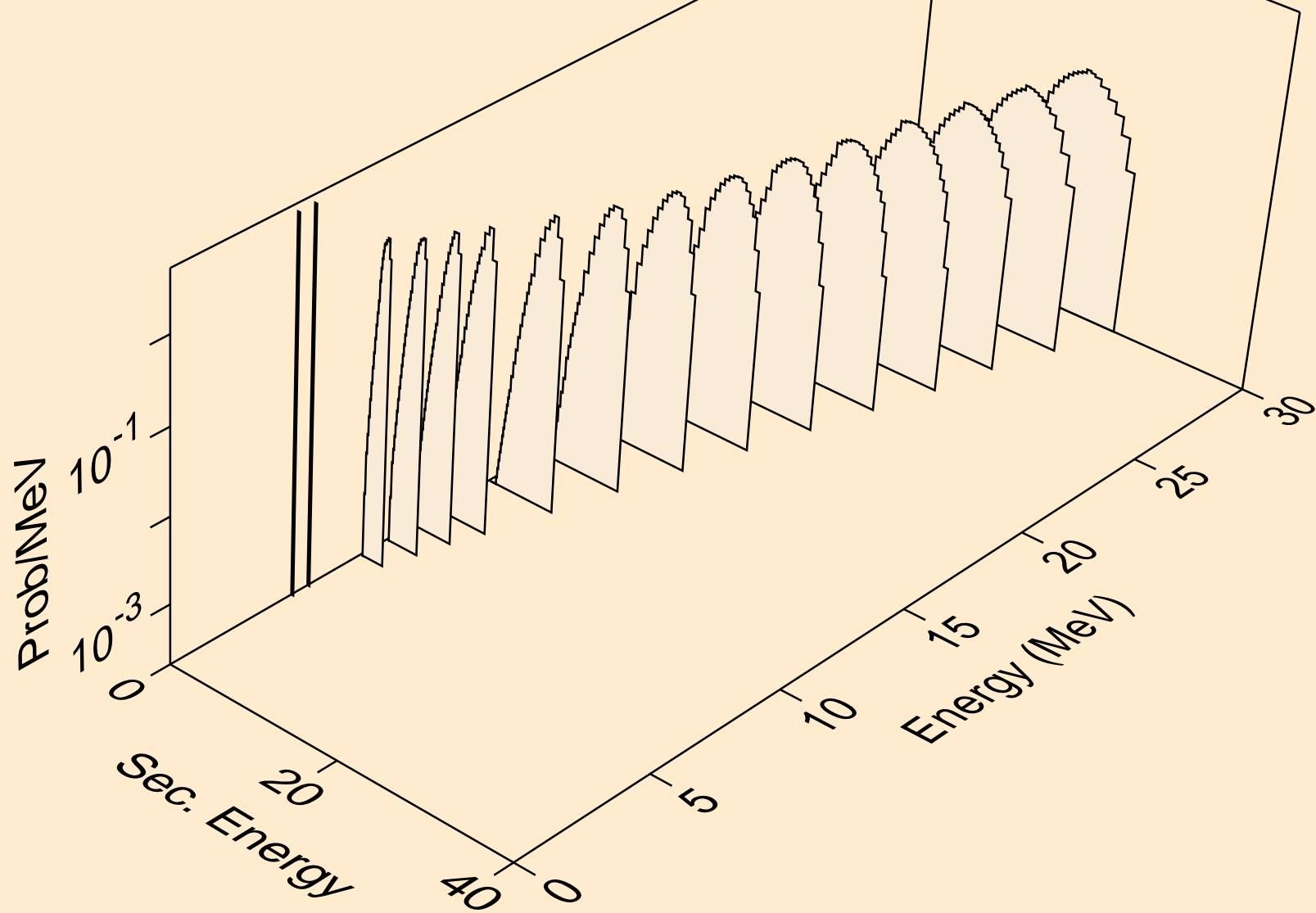
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deuterons from (s,2nd)



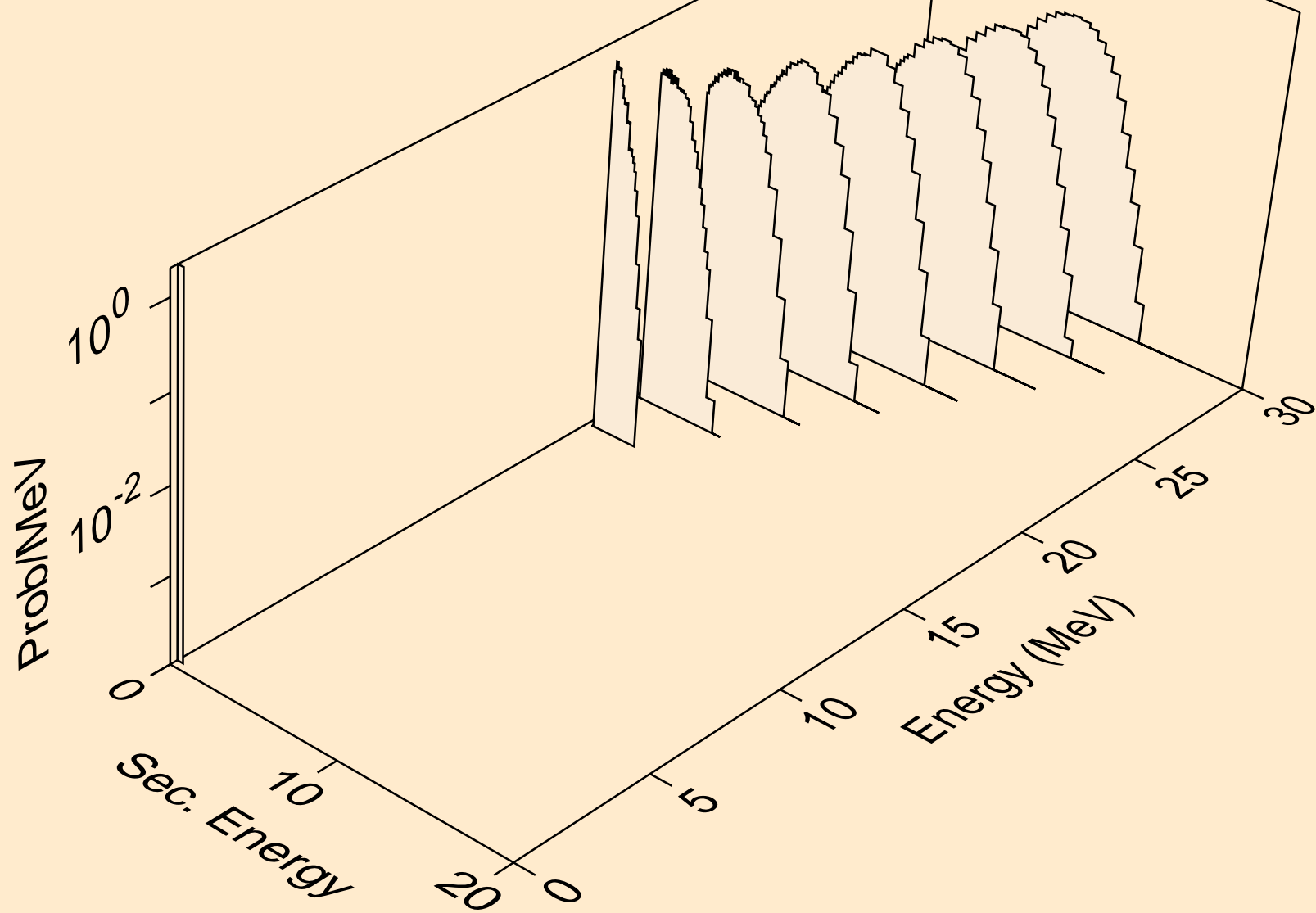
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,n\*)d



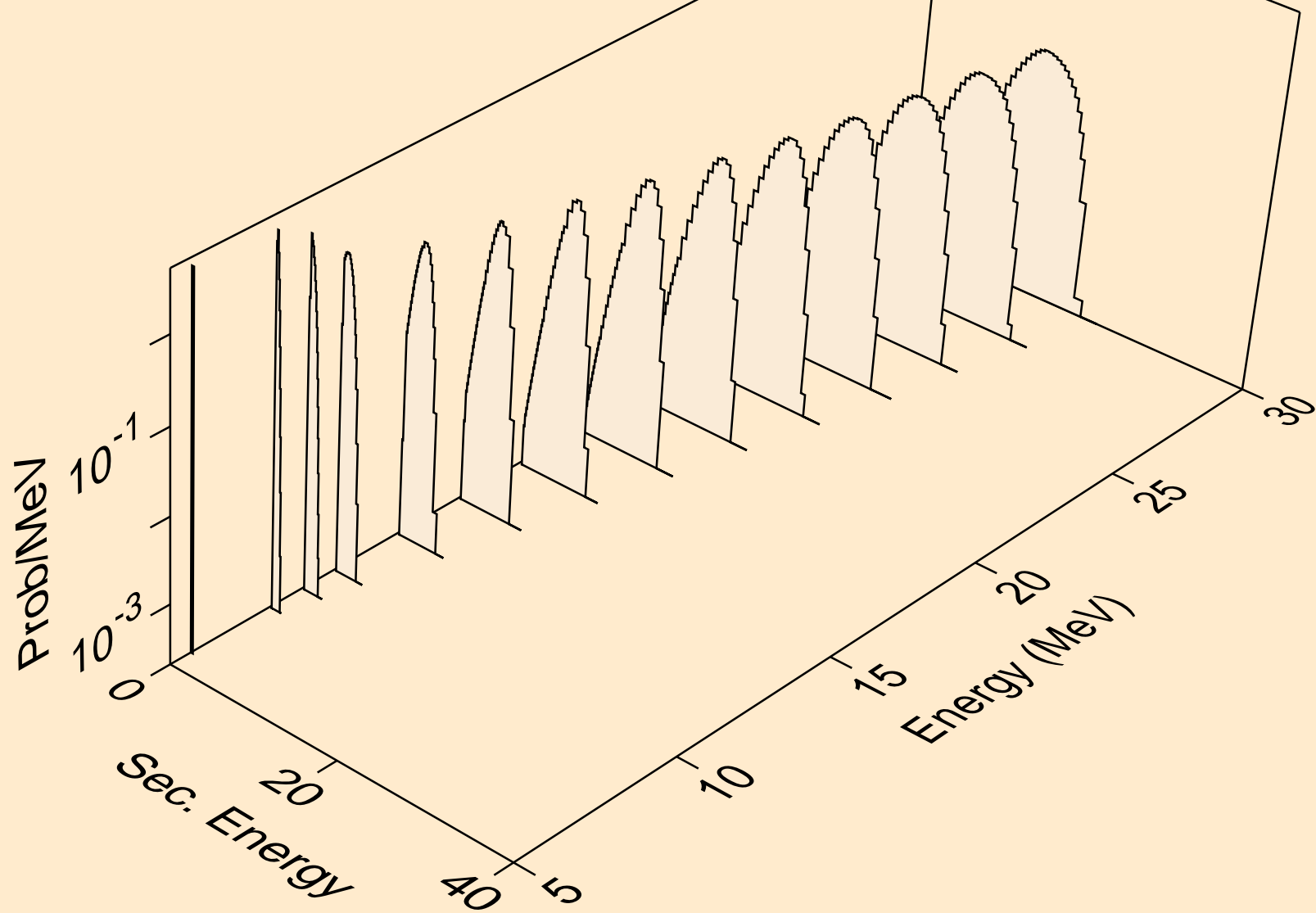
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deuterons from (s,d)



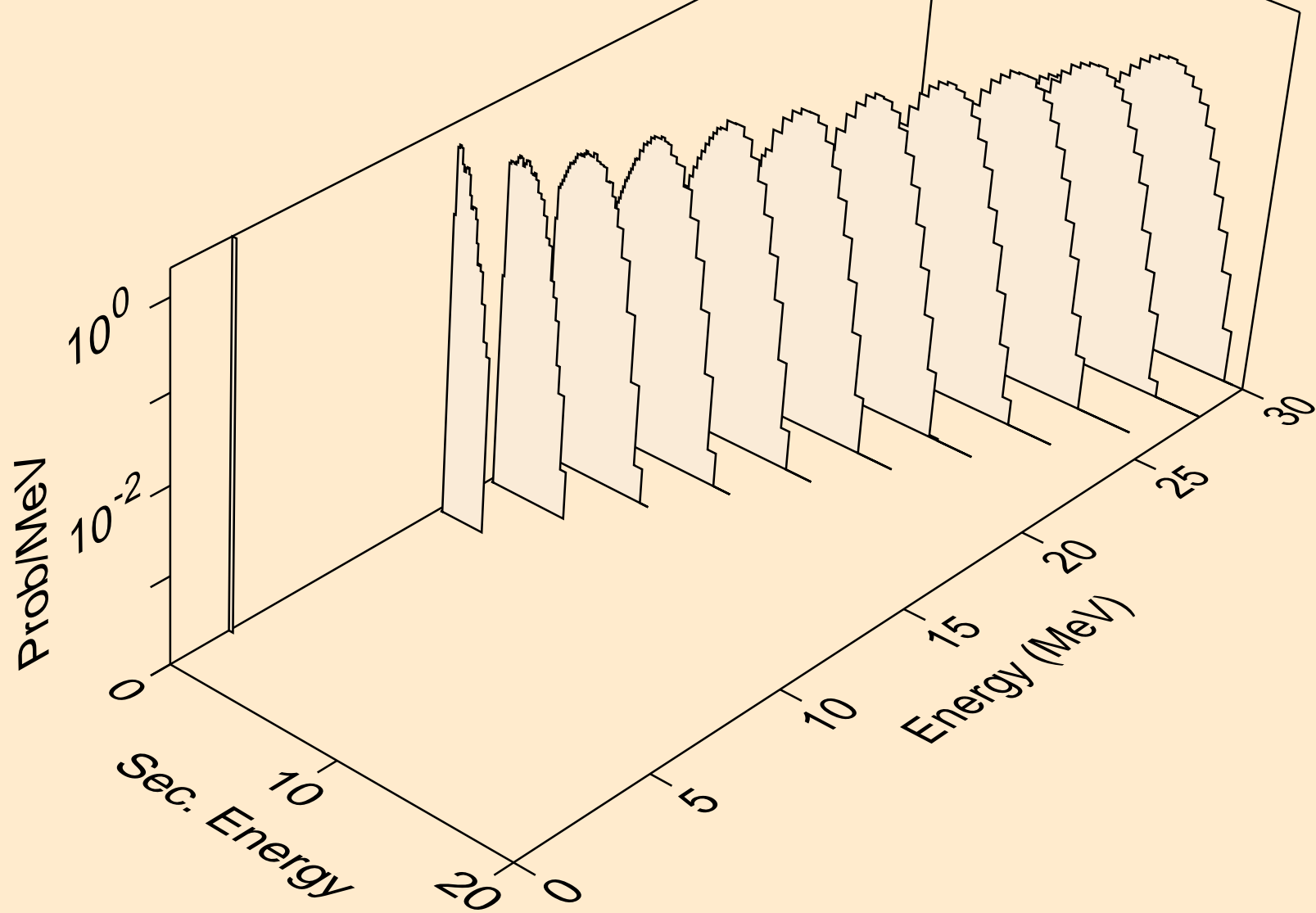
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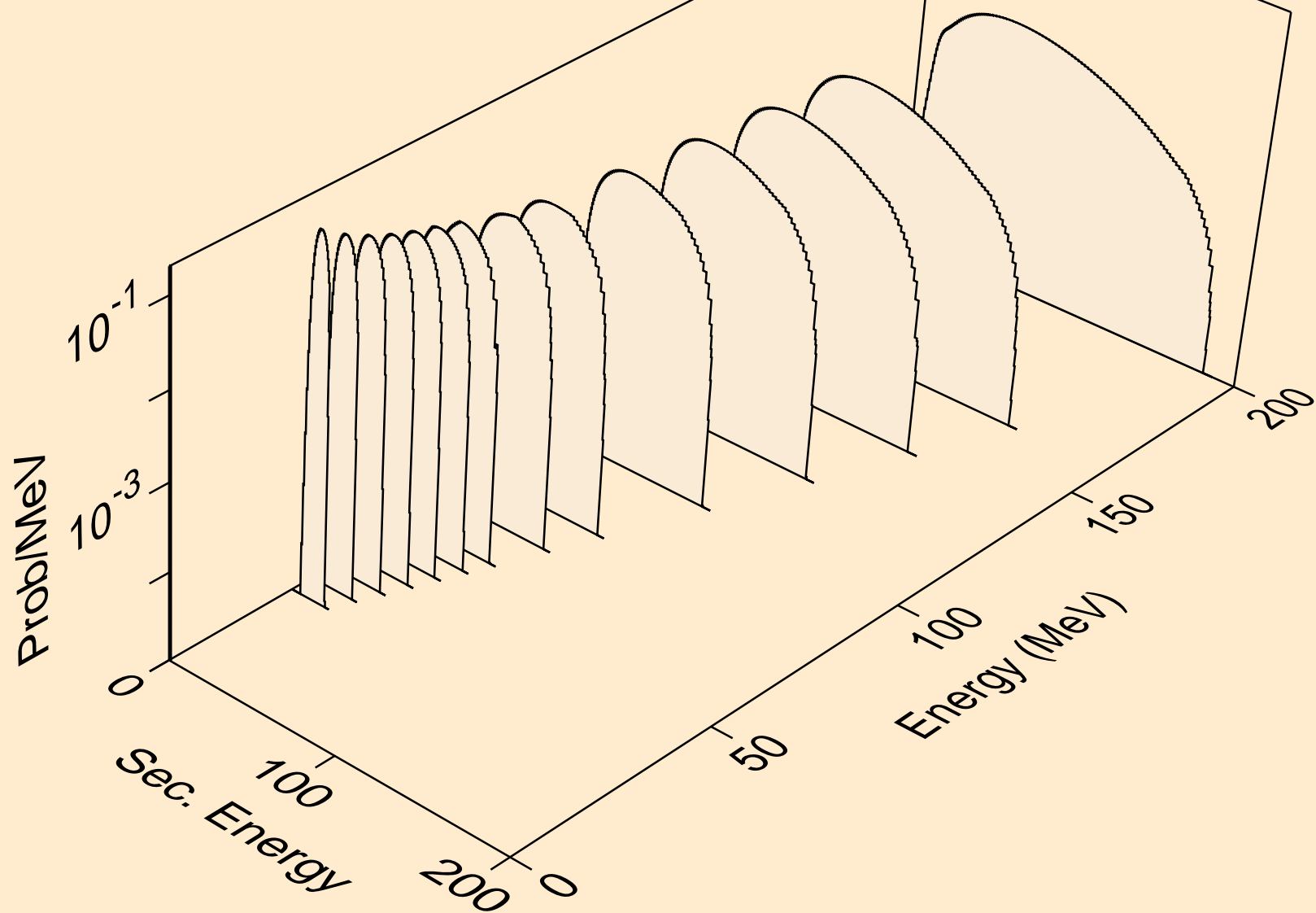
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,pd)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (s,da)

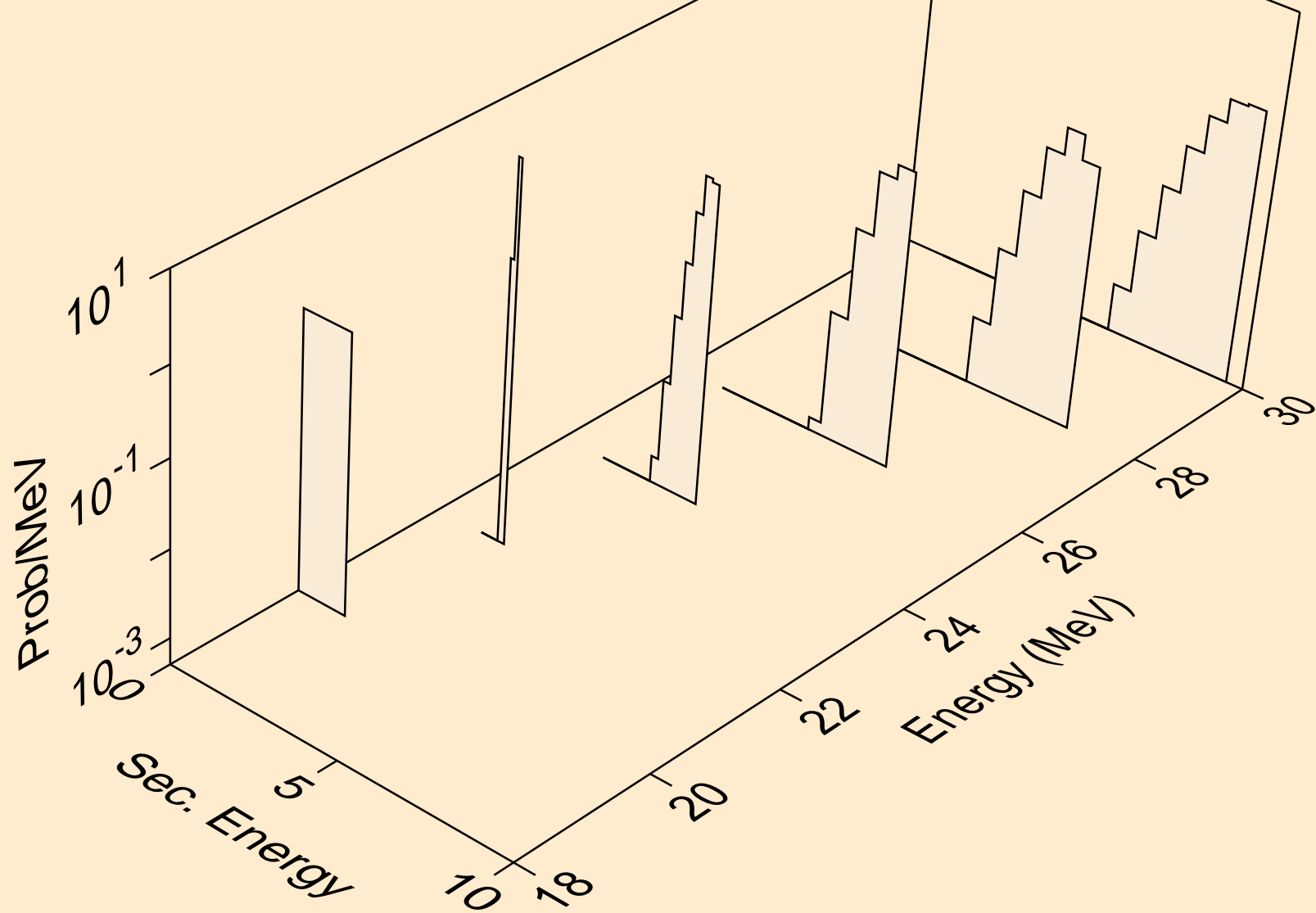


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,x)

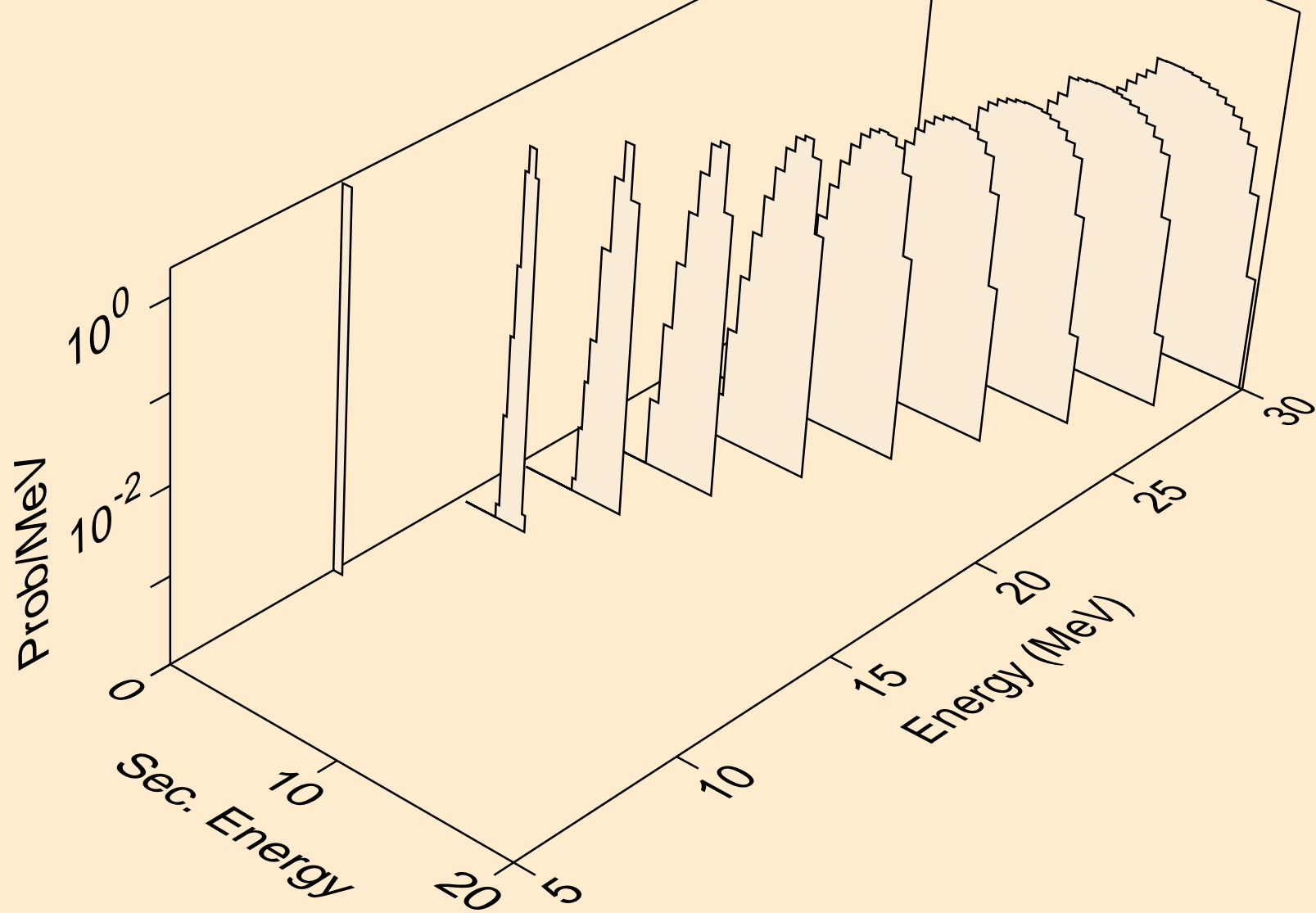




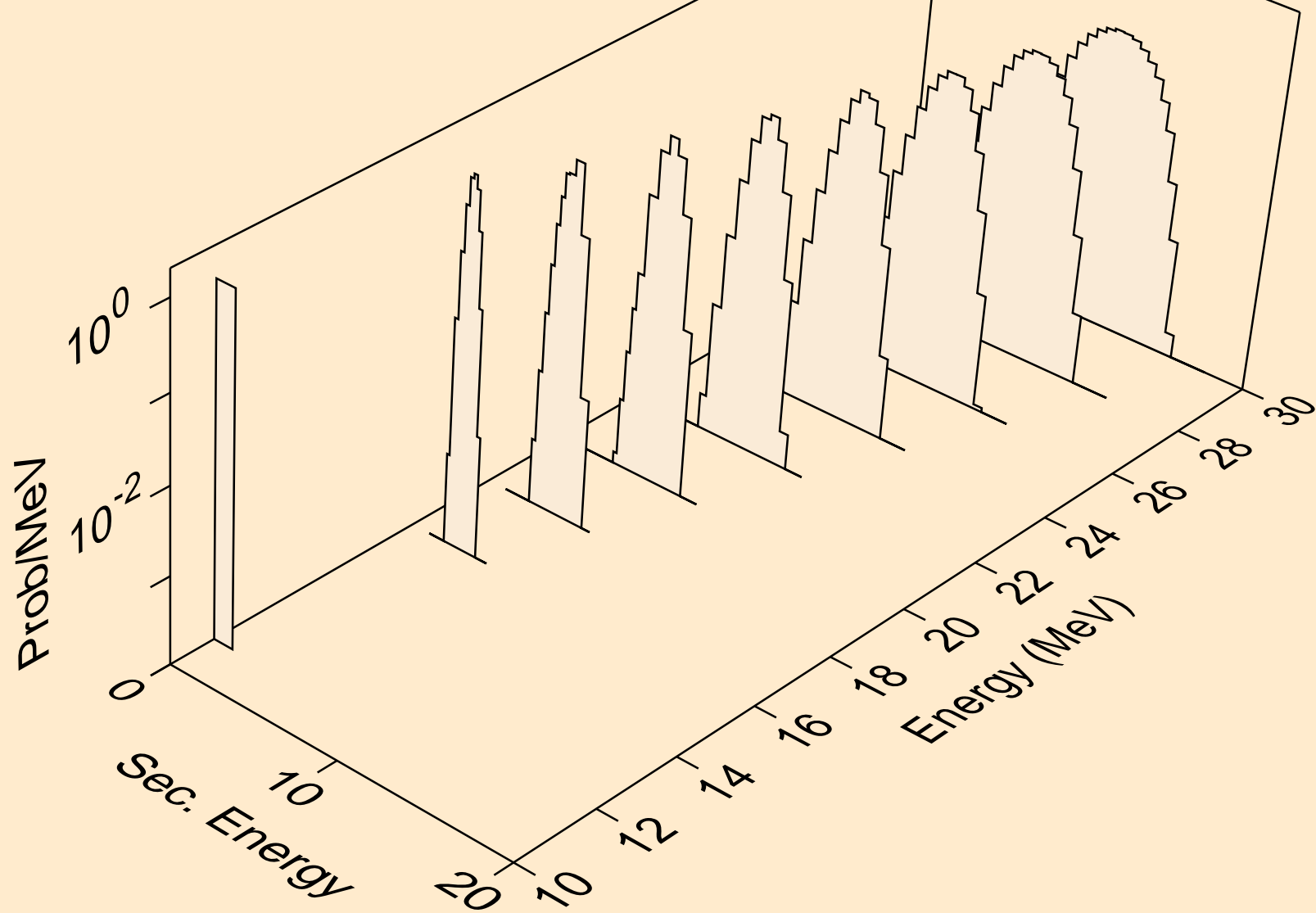
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (s,n\*)t



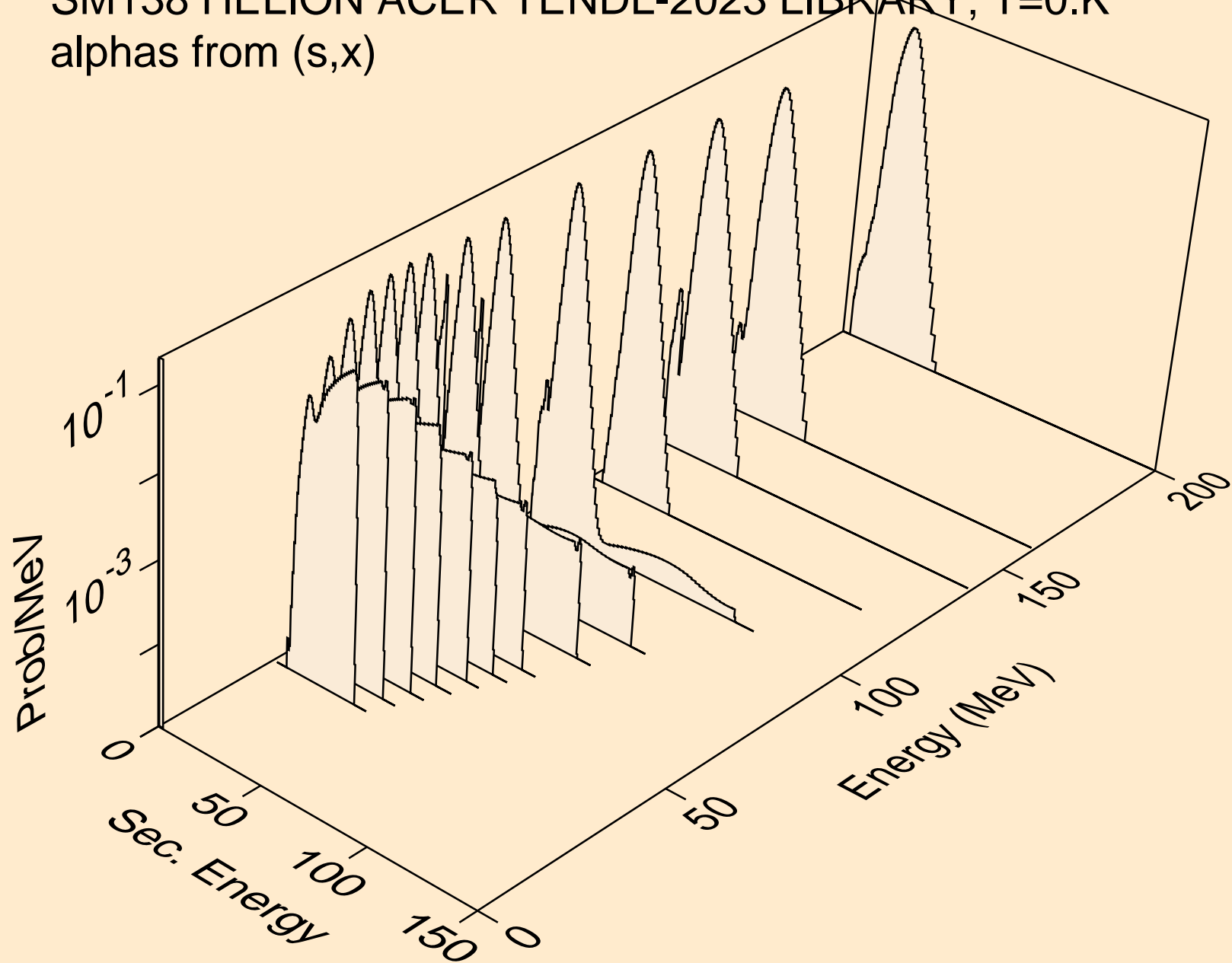
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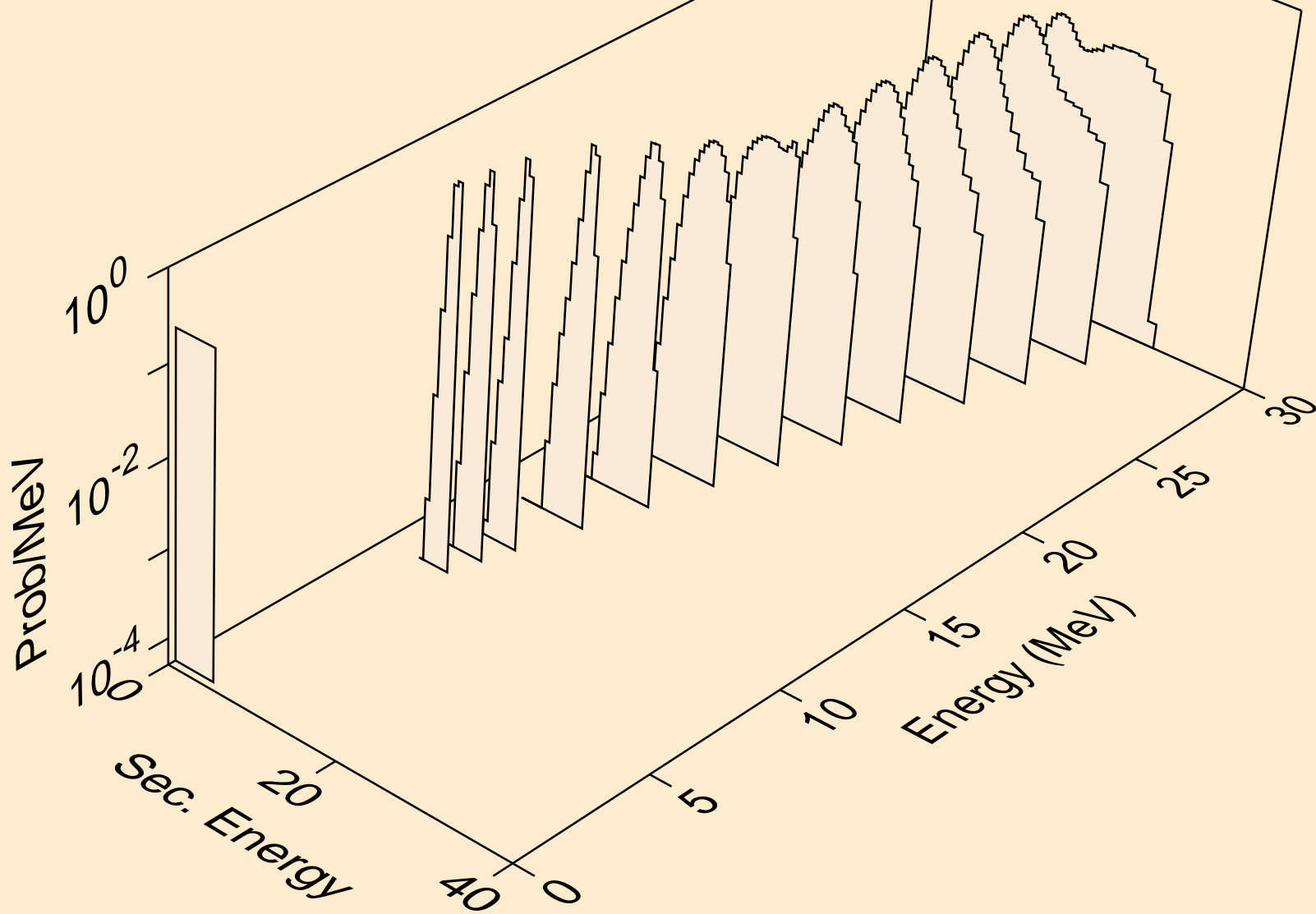
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tritons from (s,pt)



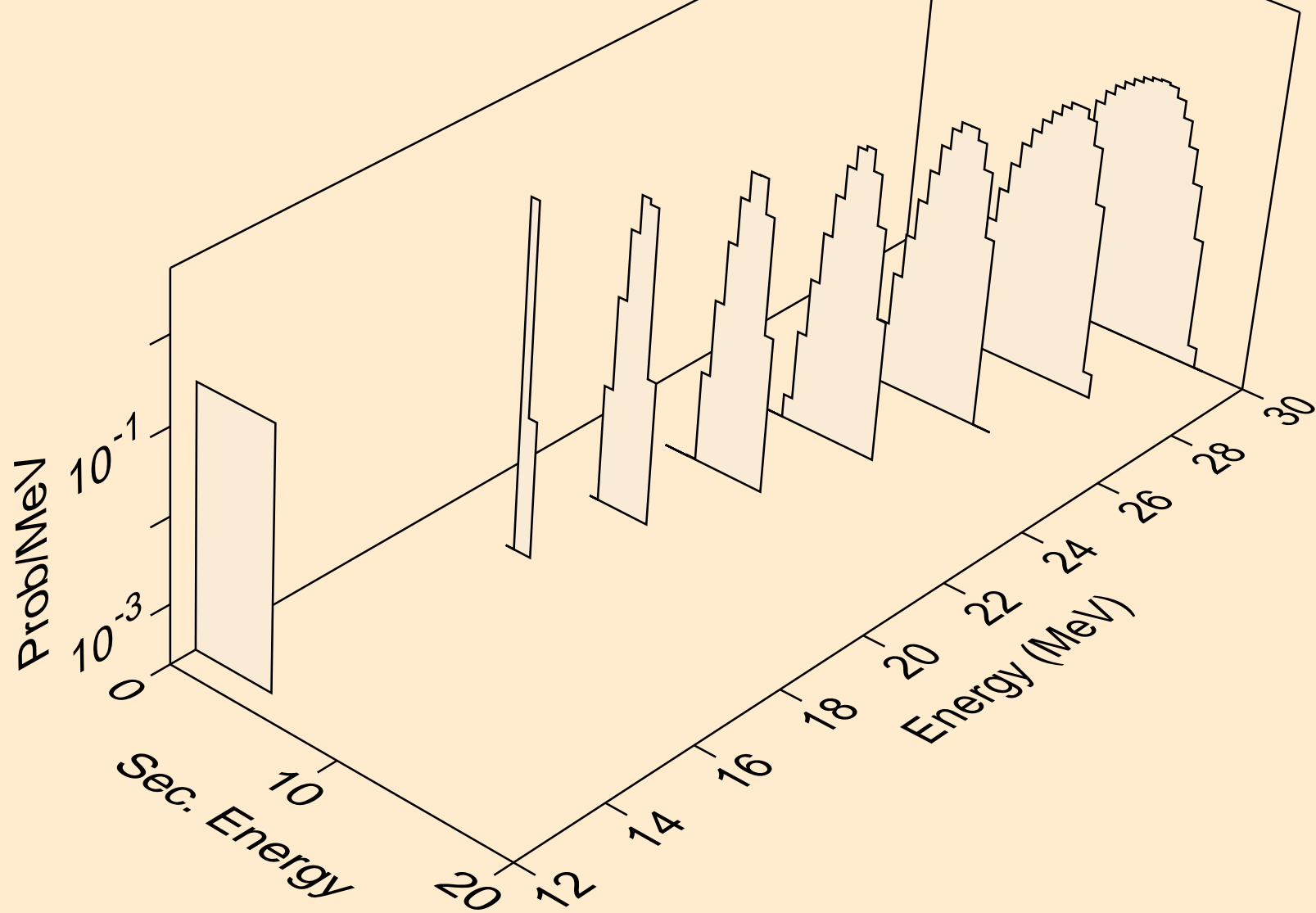
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,x)



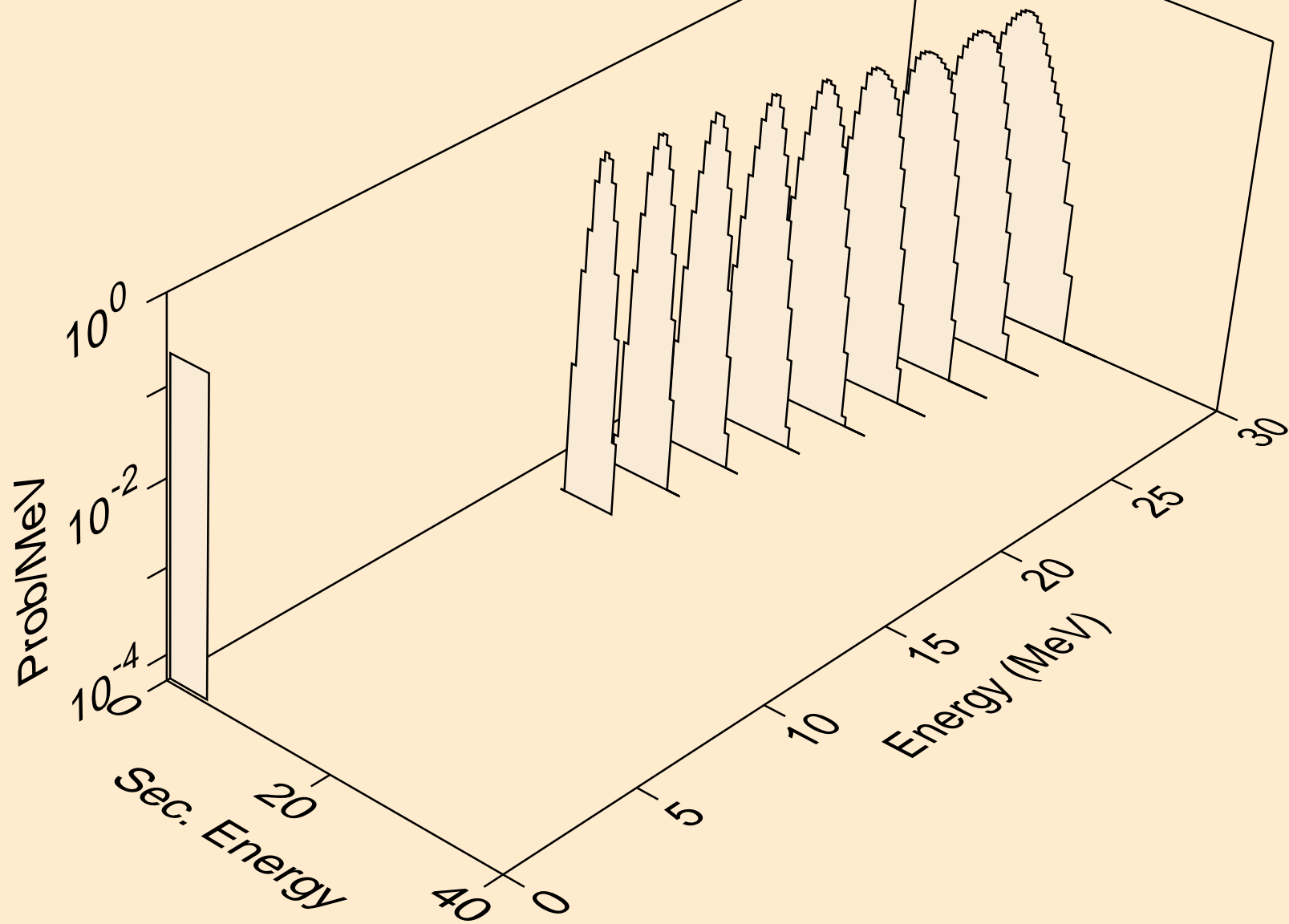
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,n\*)a



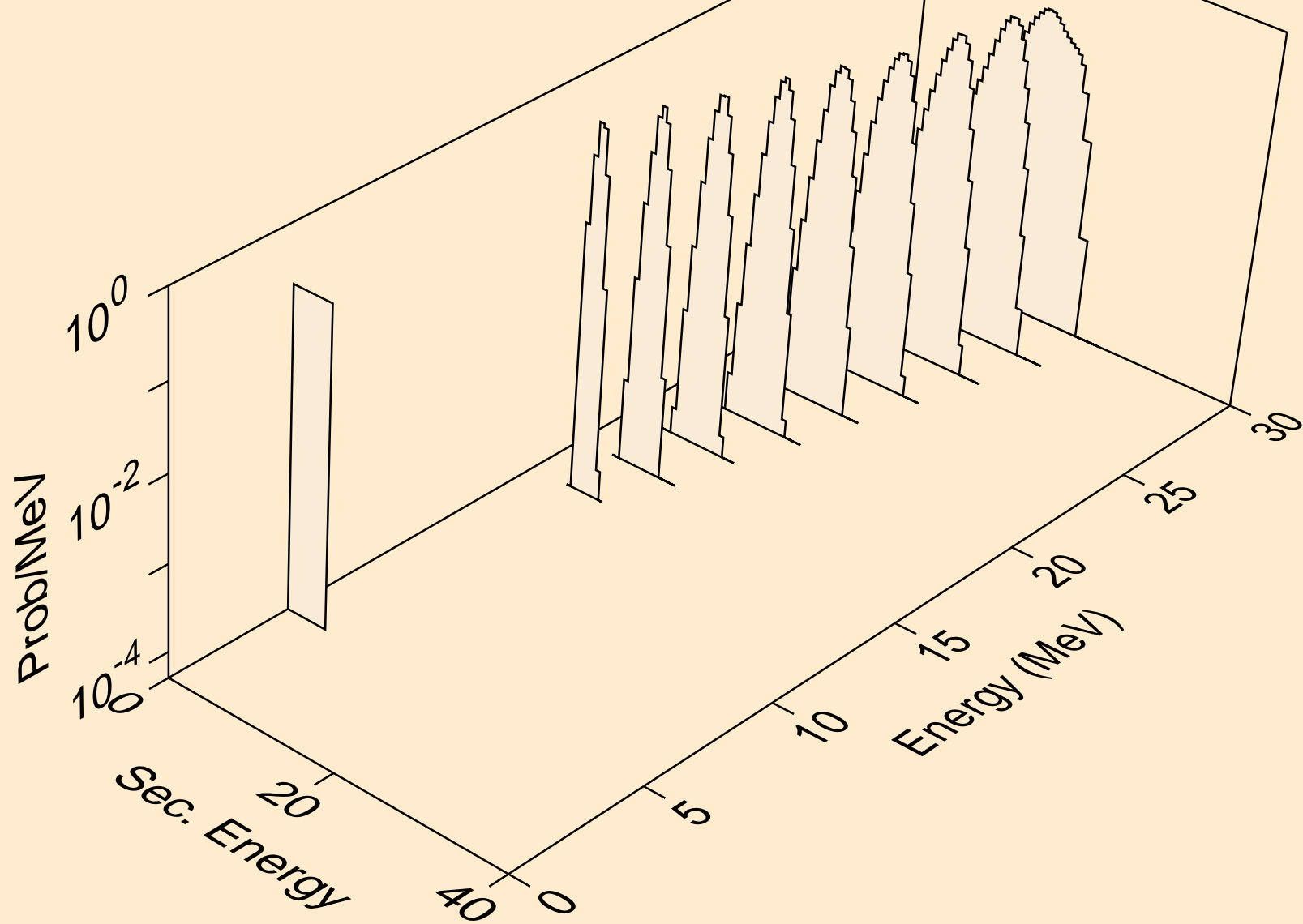
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2n)a



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,n\*)2a

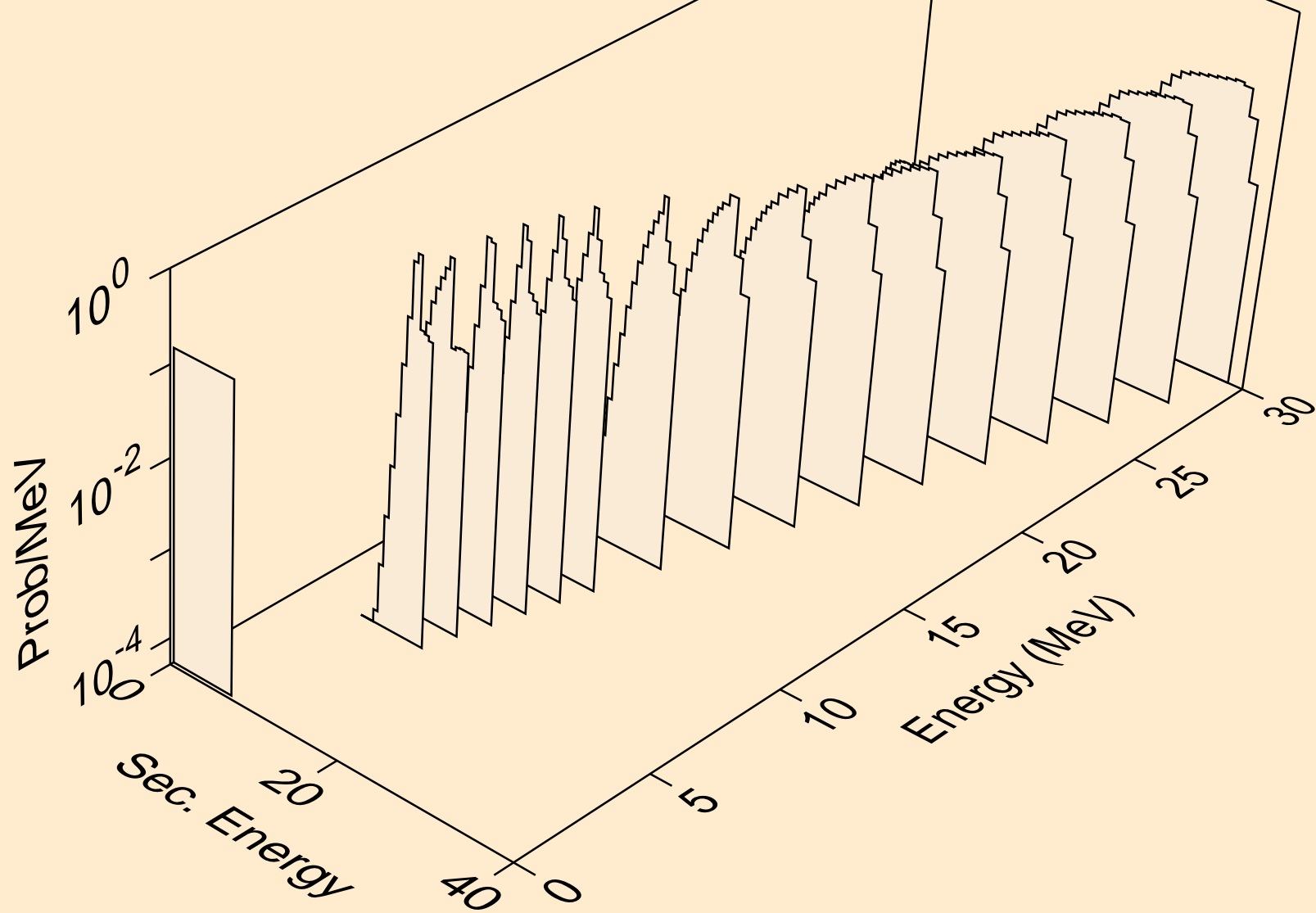


SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,npa)

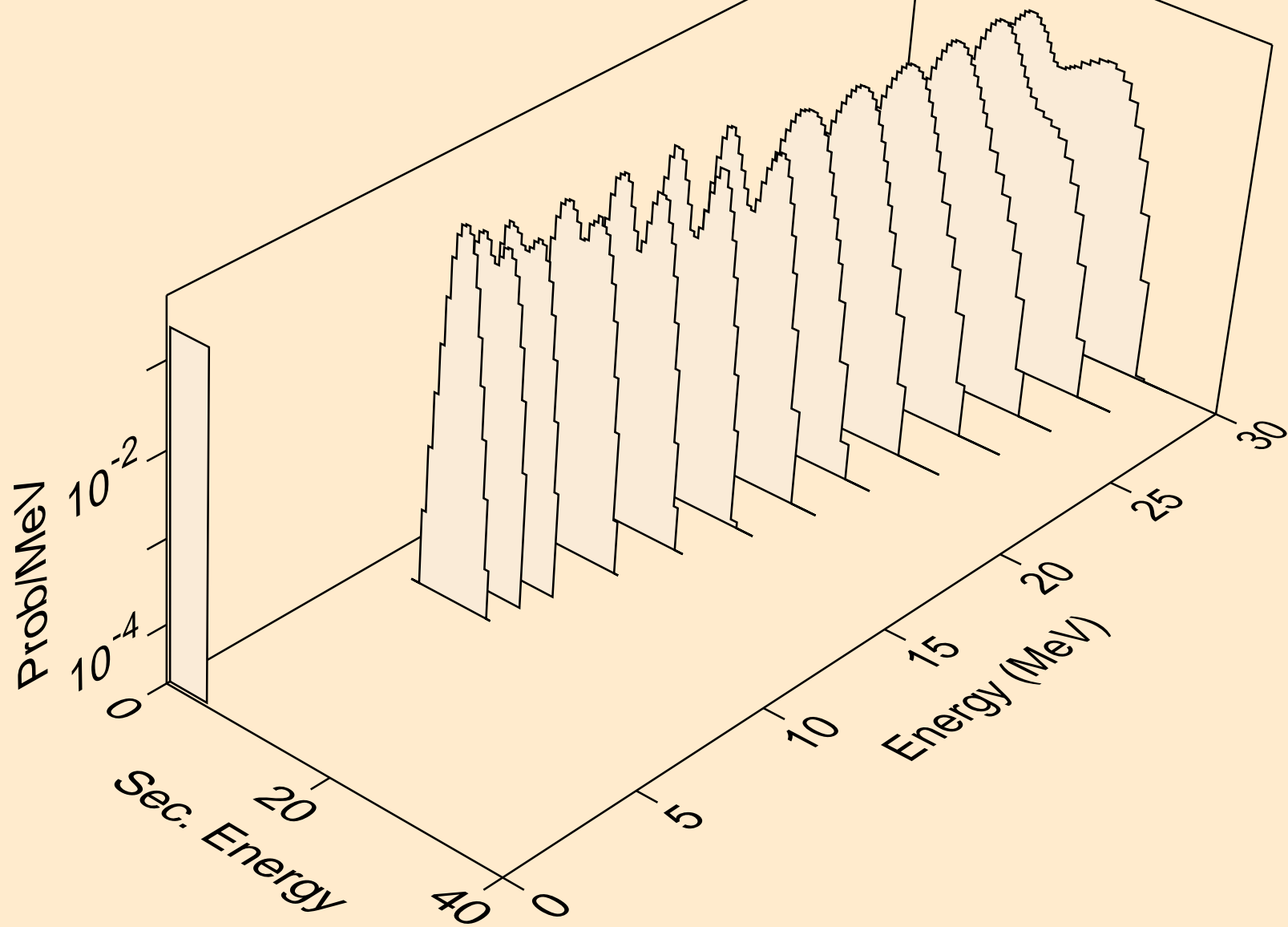




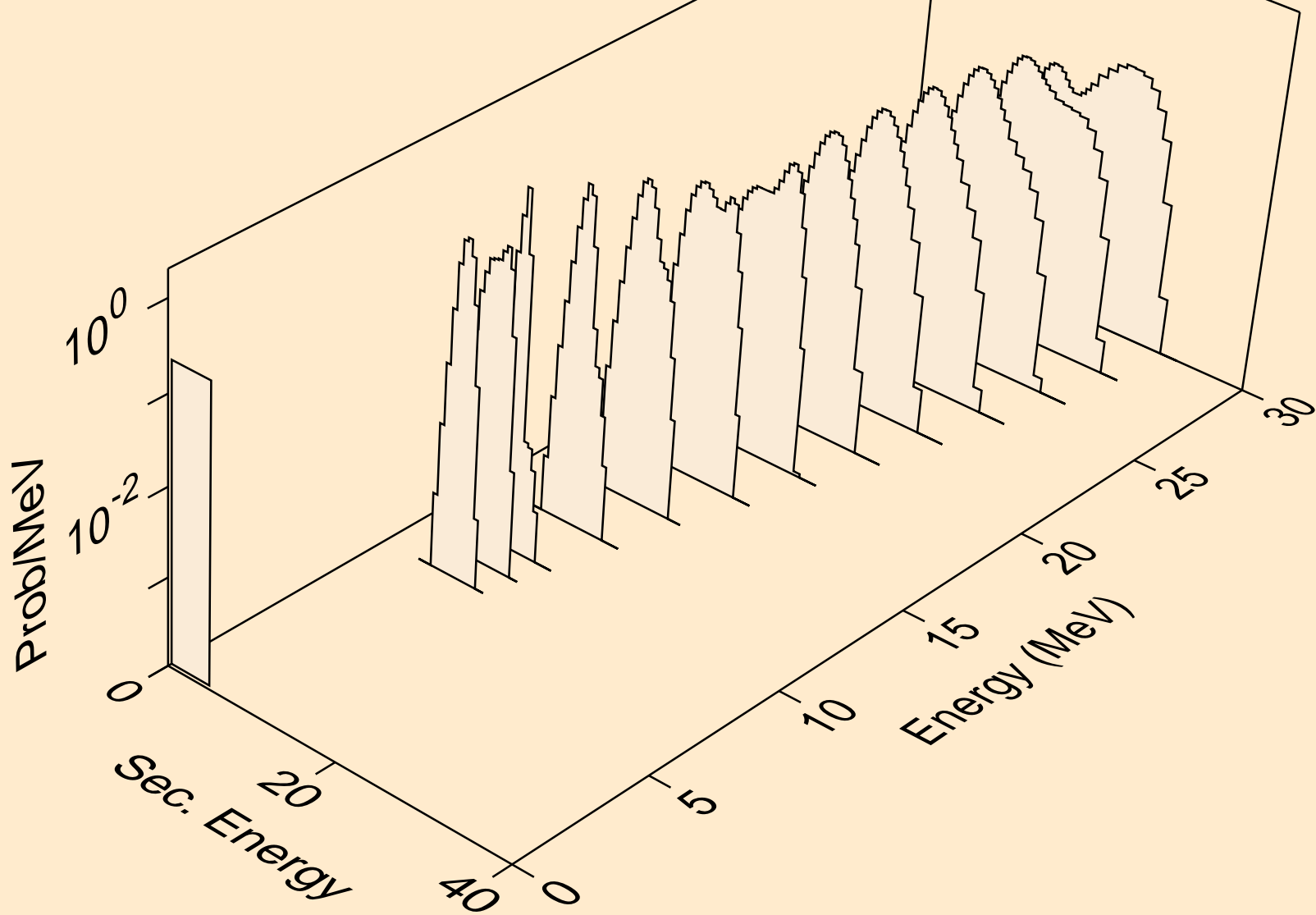
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,a)



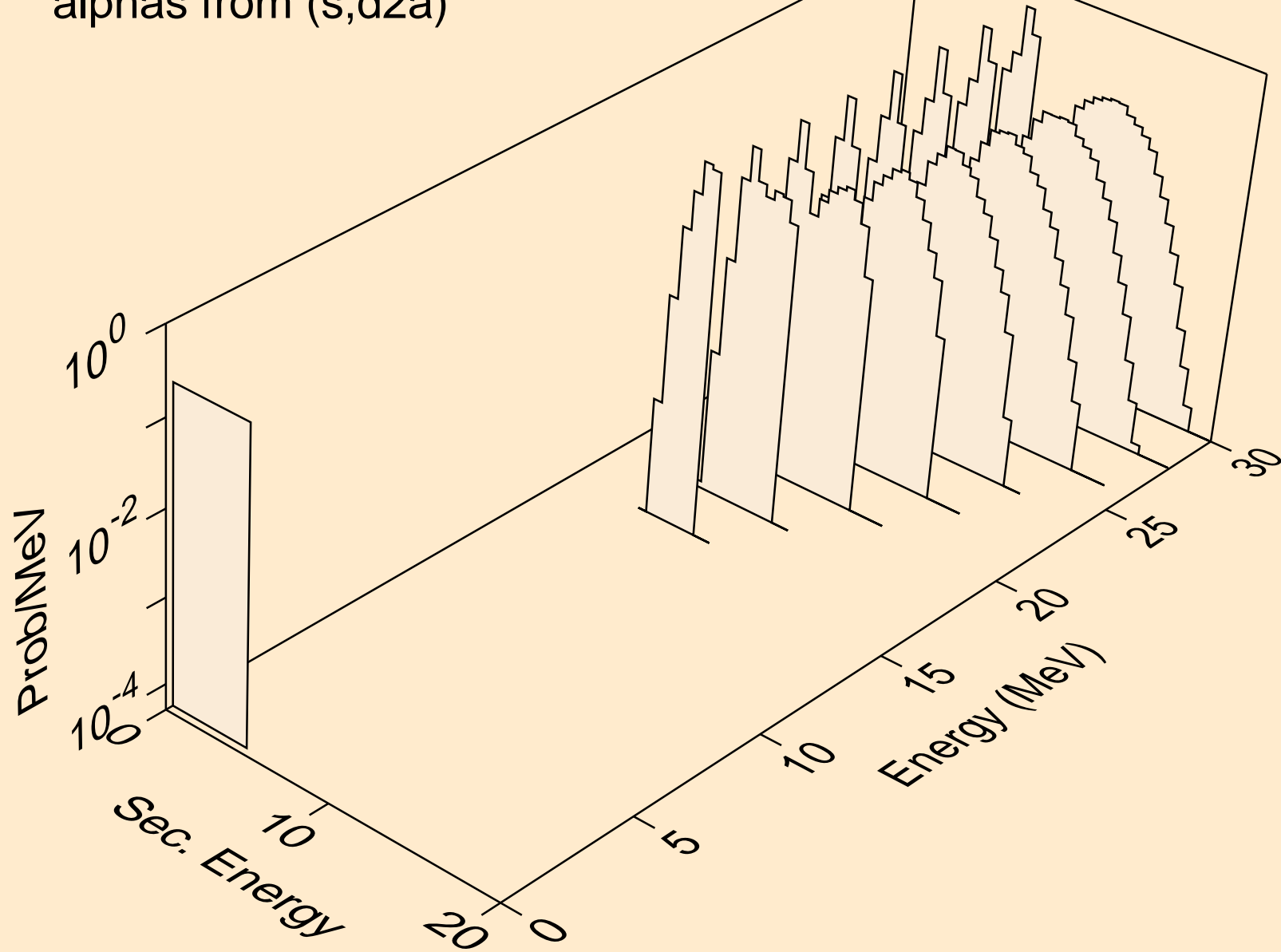
SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,2a)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,pa)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,d2a)



SM138 HELION ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (s,da)

