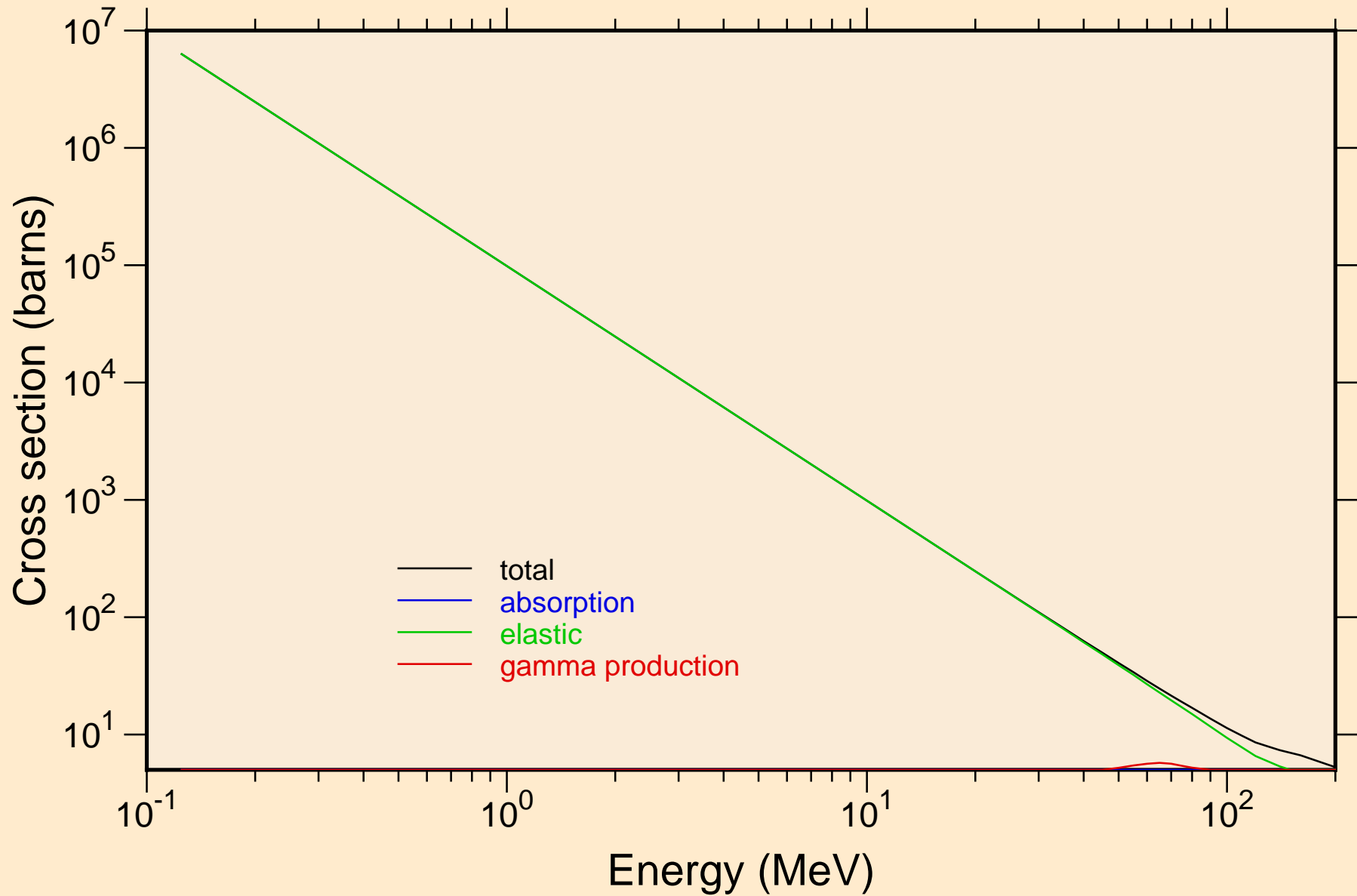


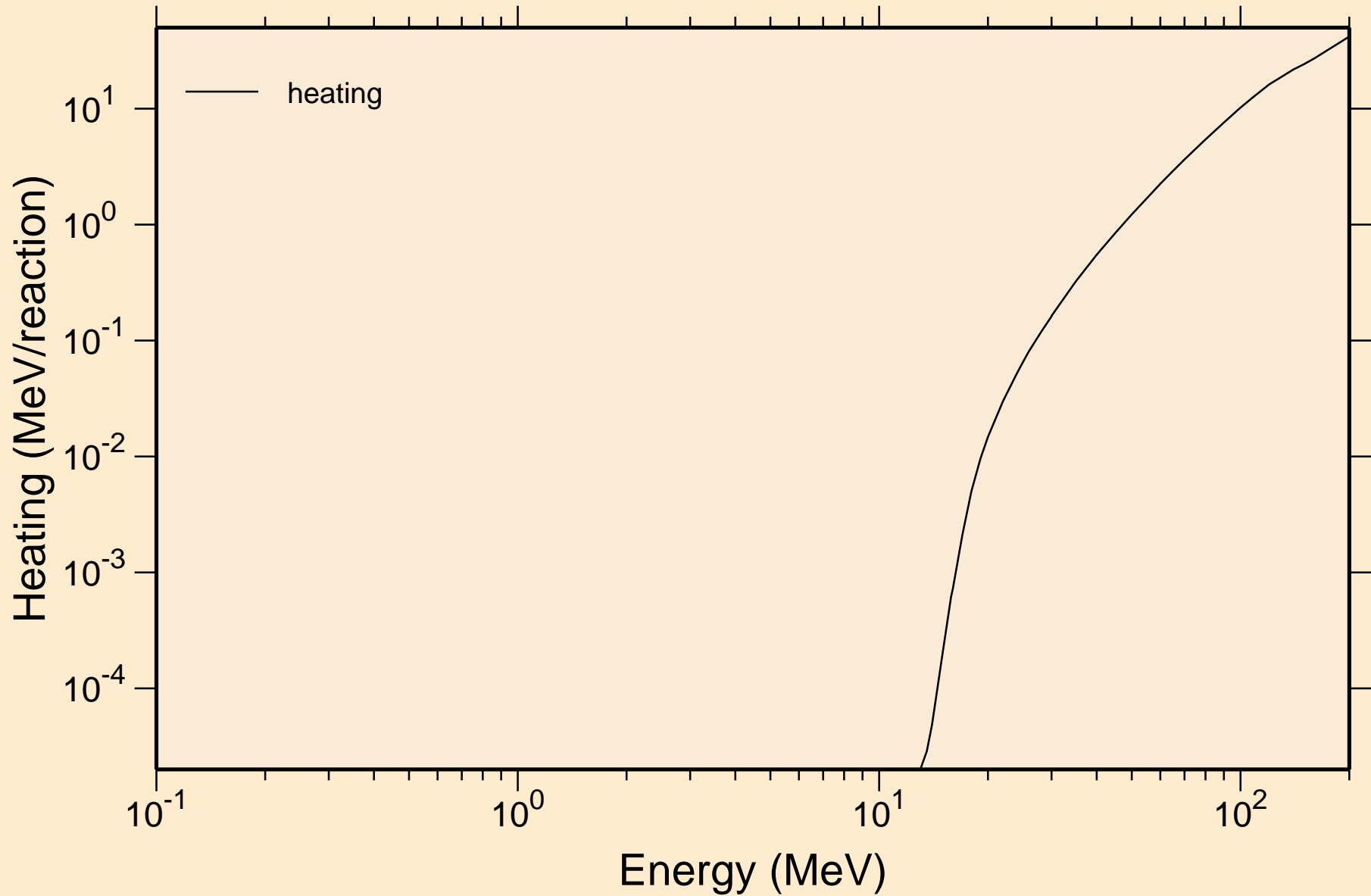
# SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



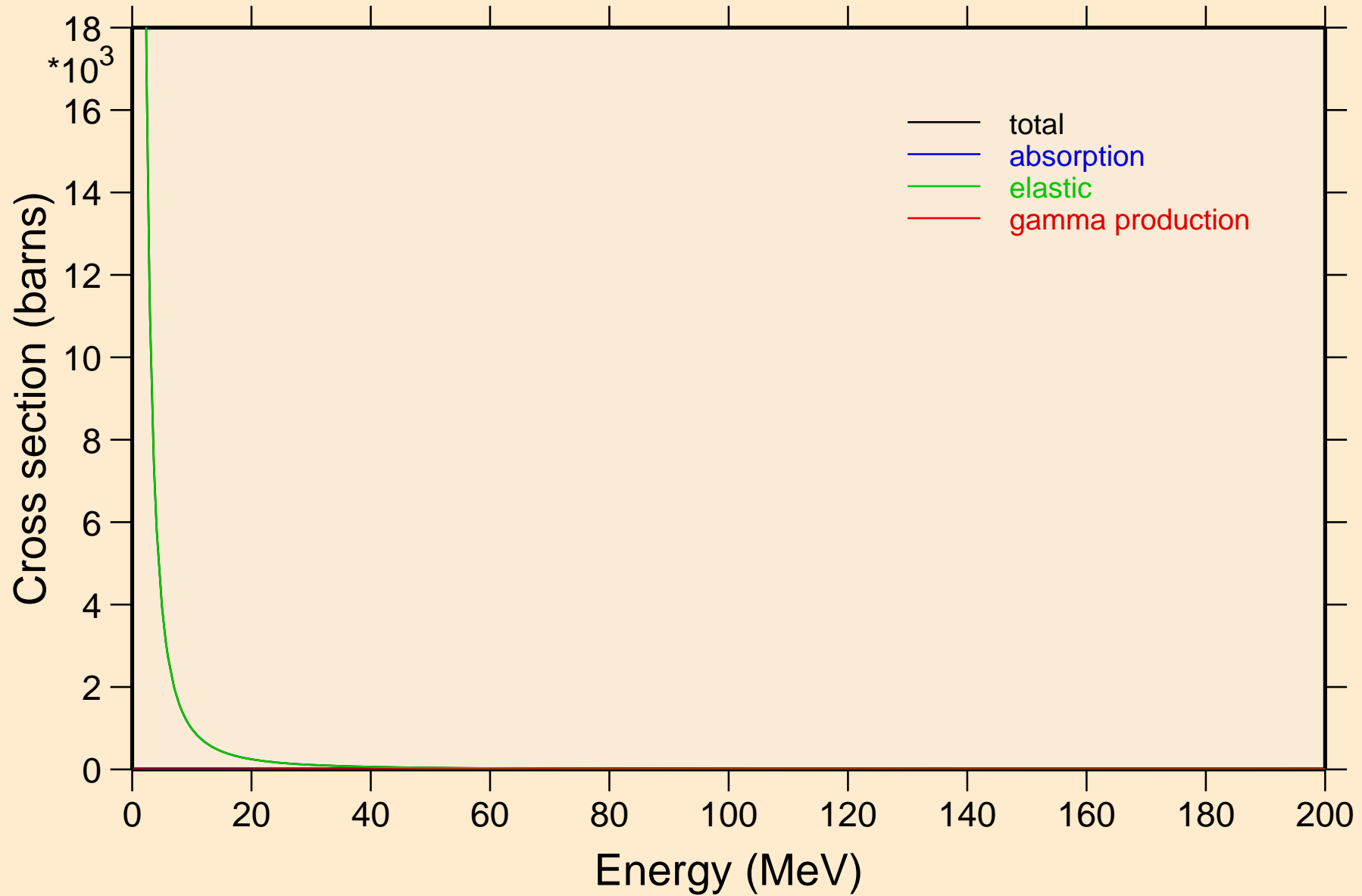
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

Heating



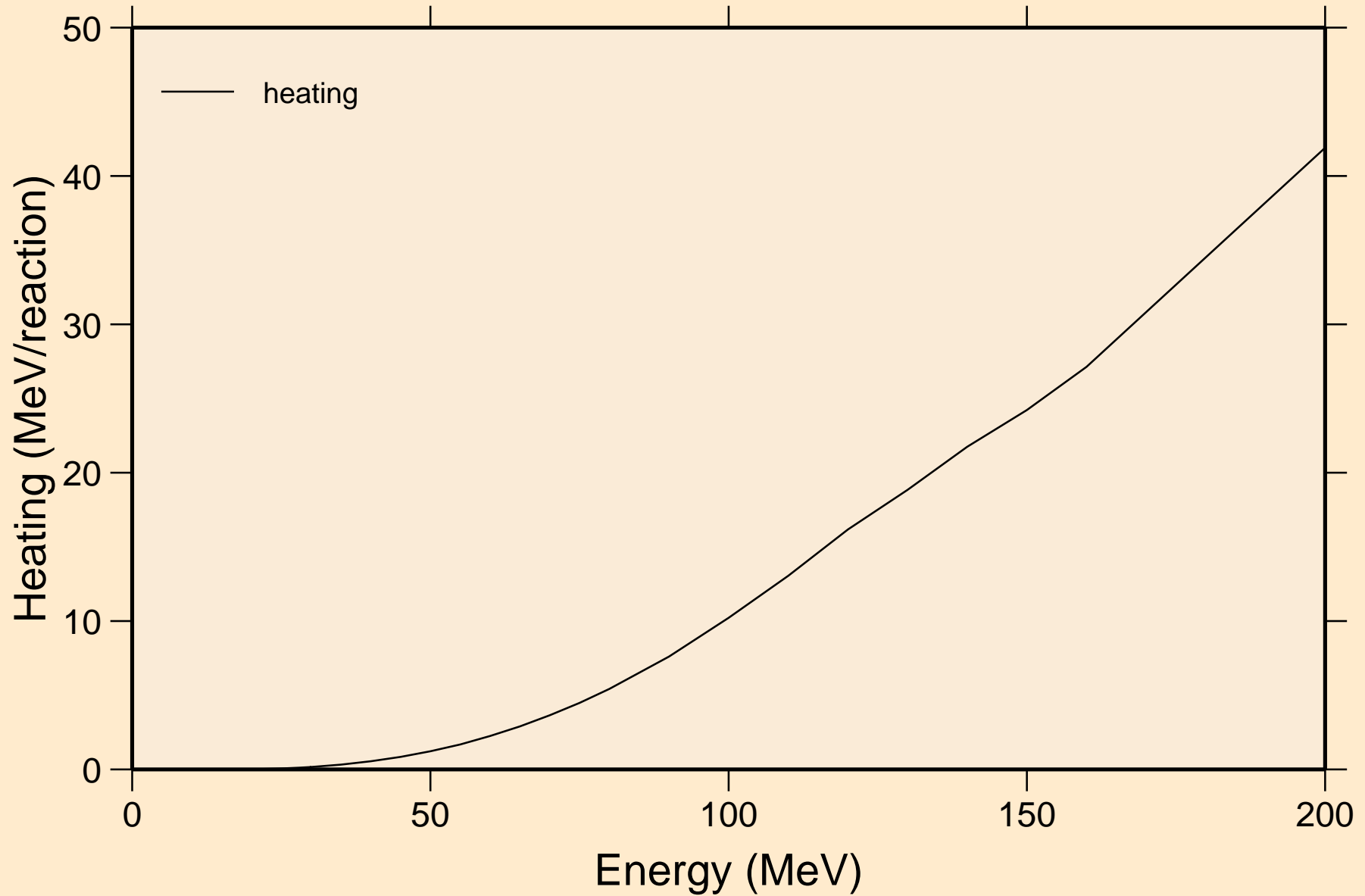
# SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



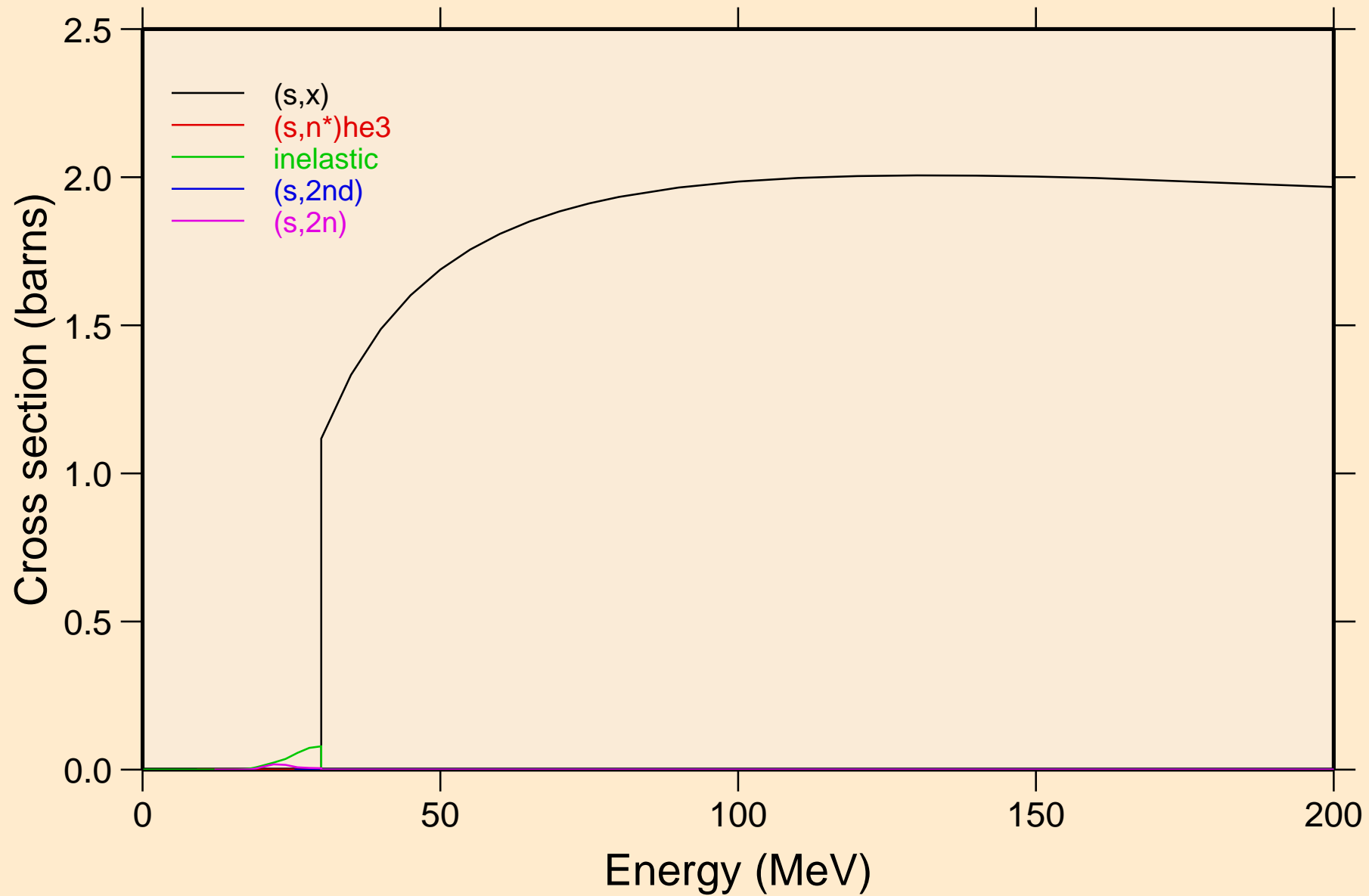
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

Heating

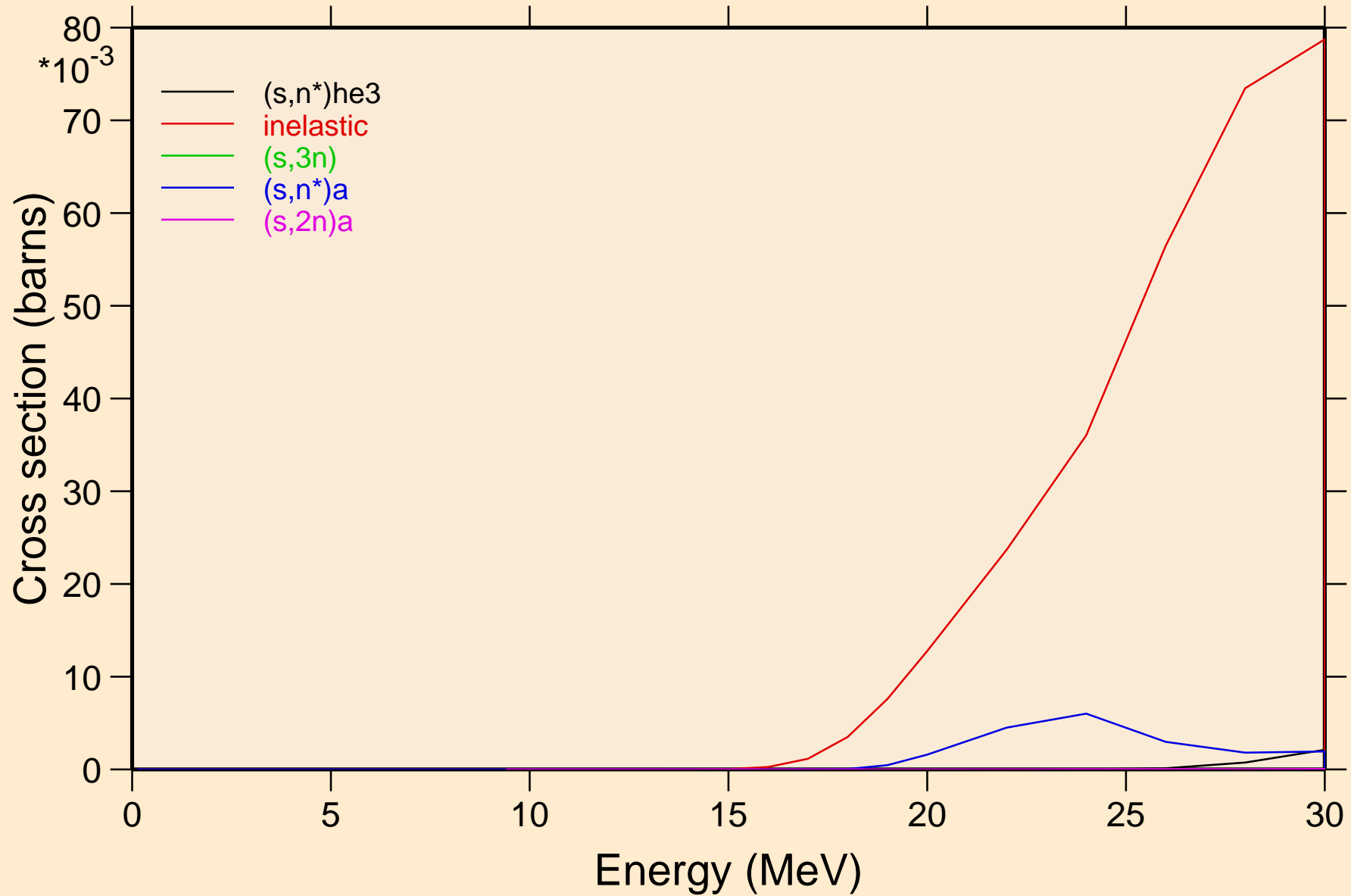


# SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Threshold reactions

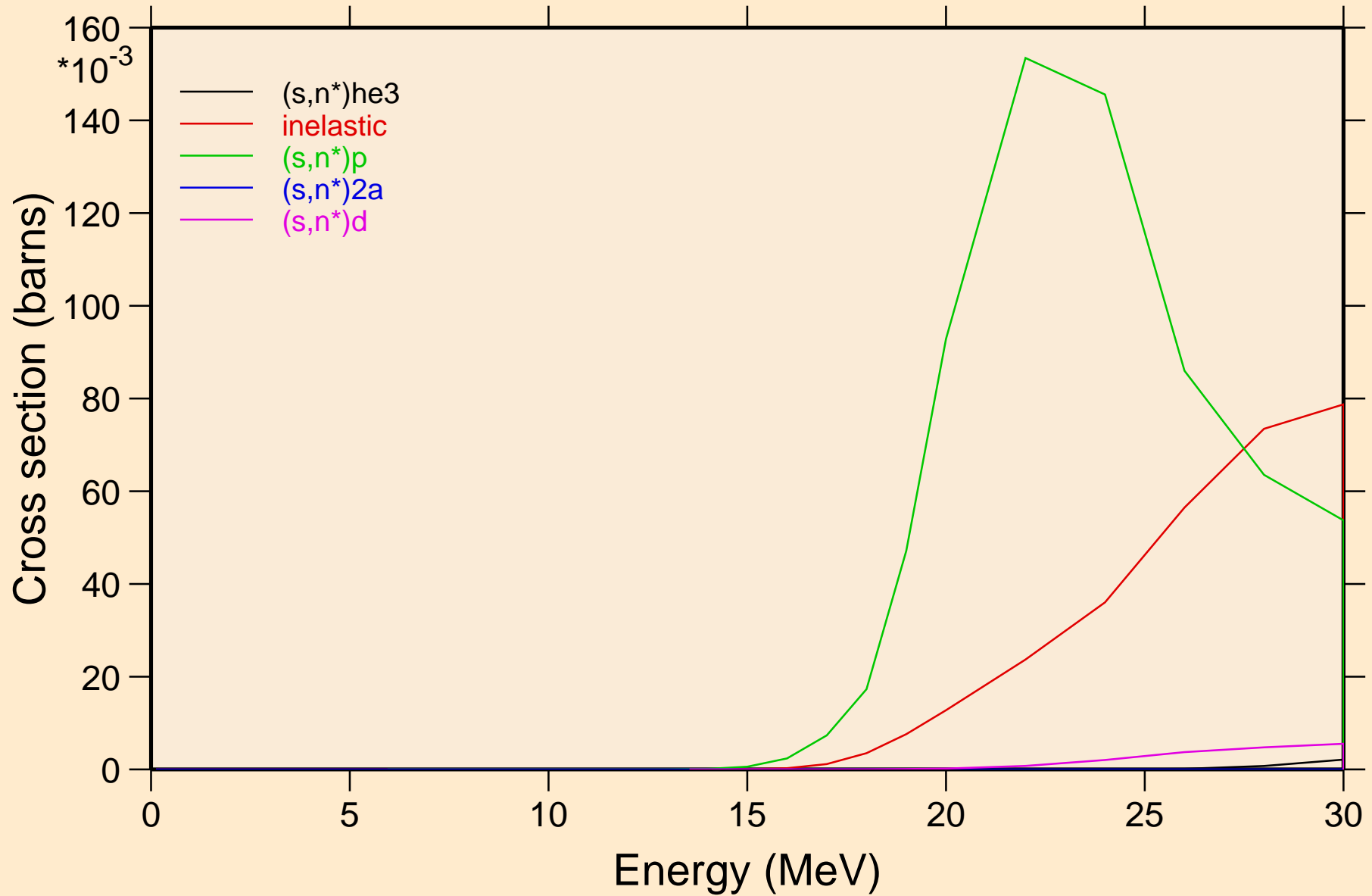


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

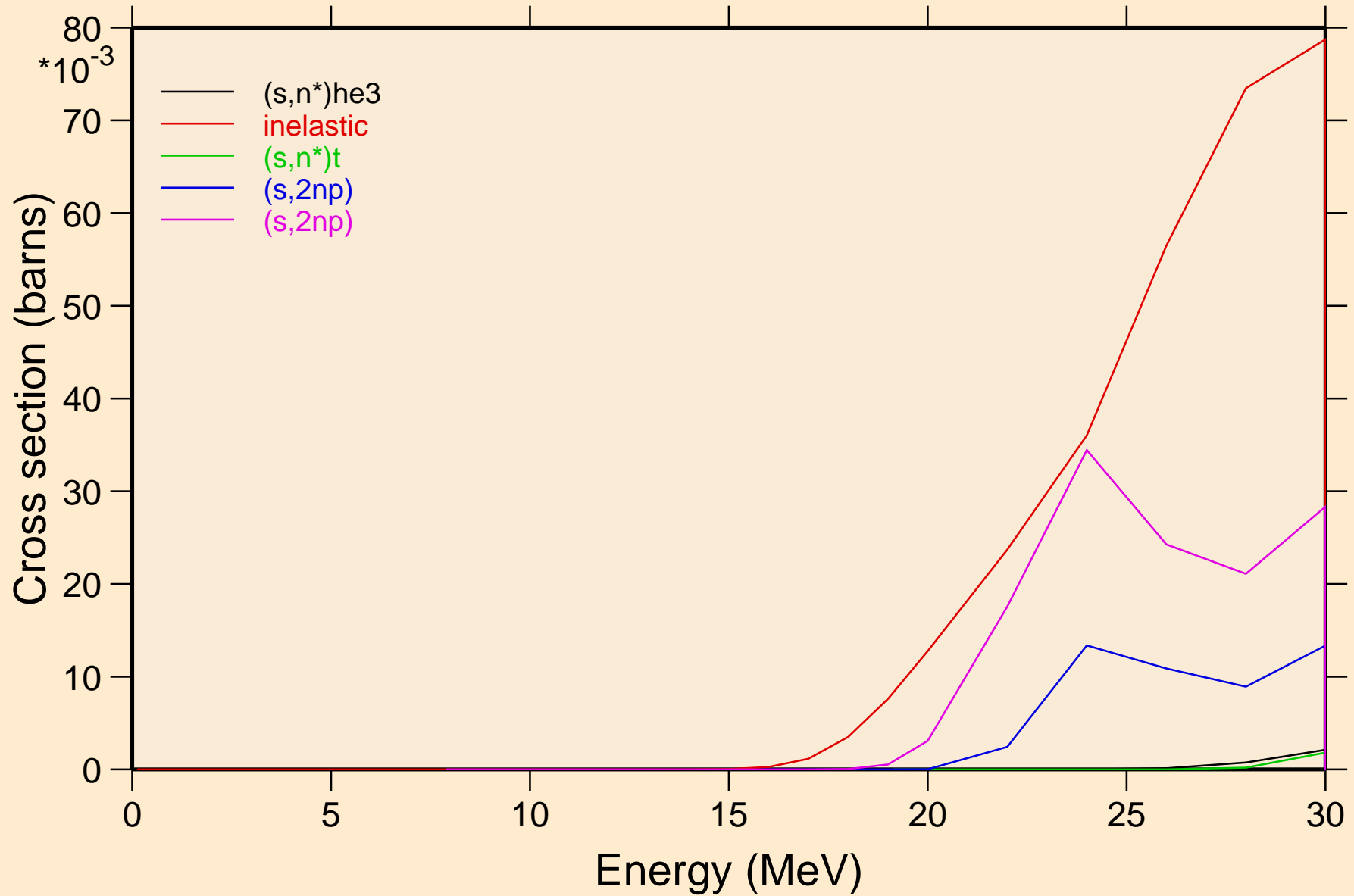


# SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K

## Threshold reactions

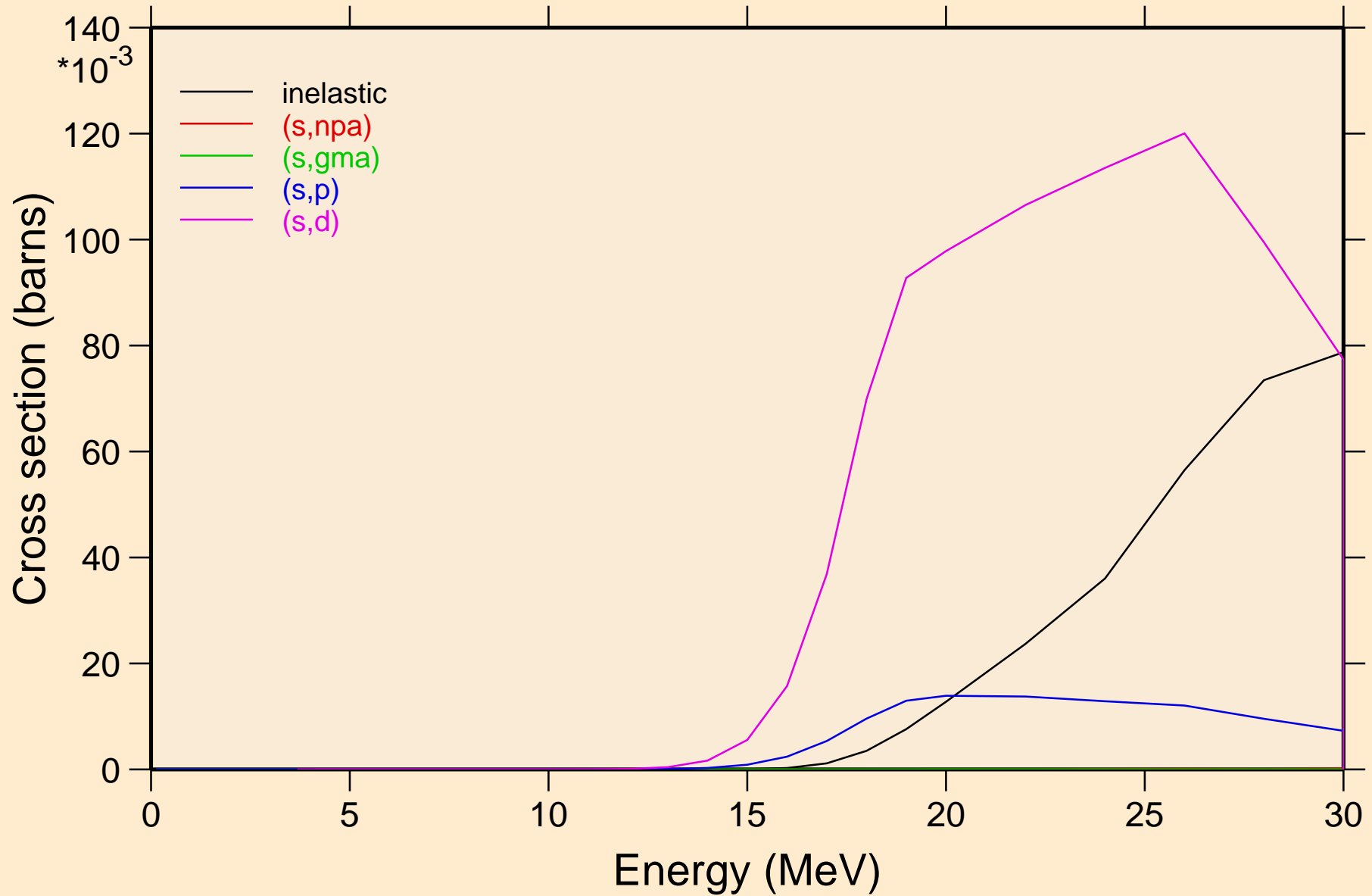


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

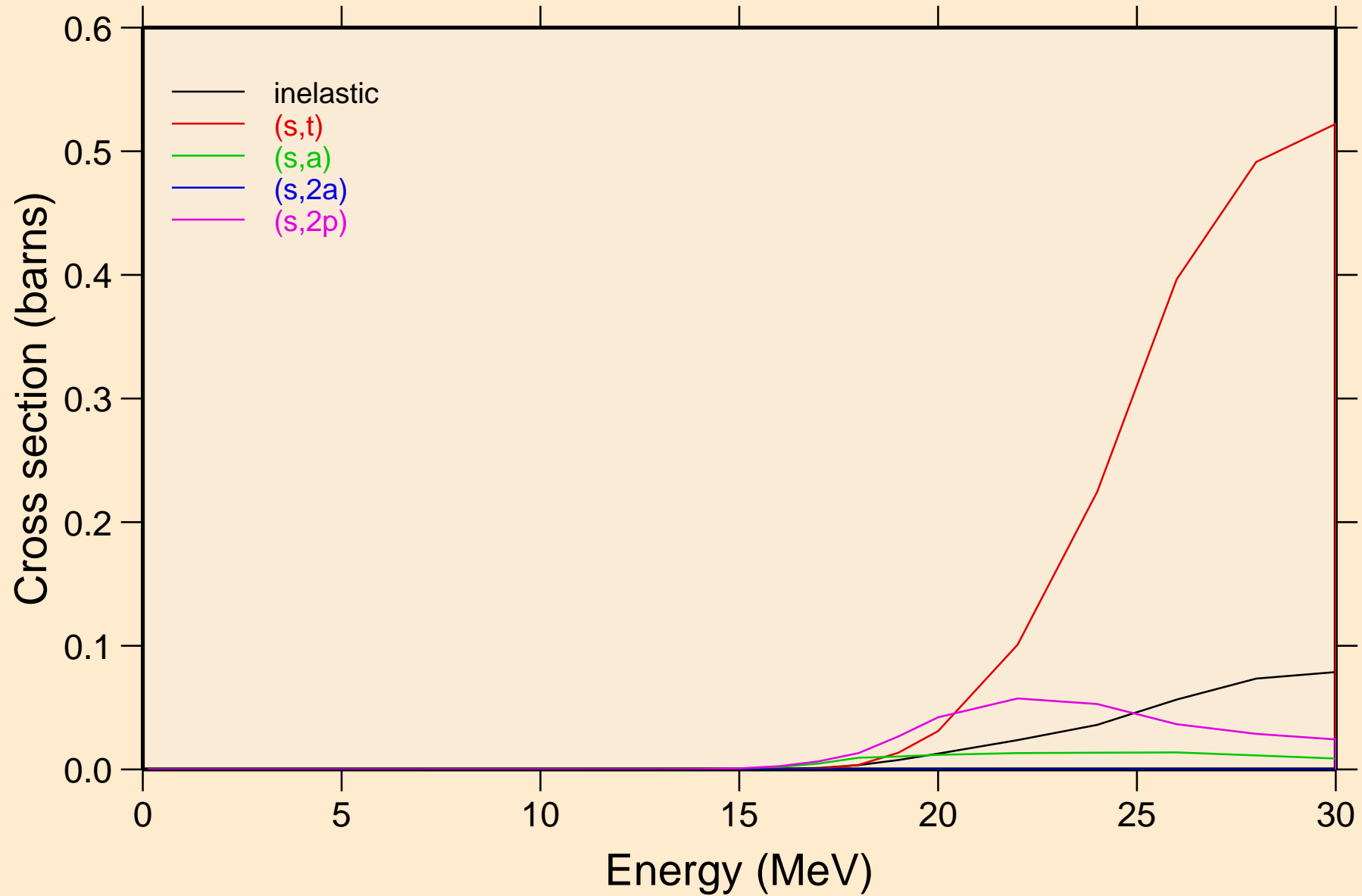




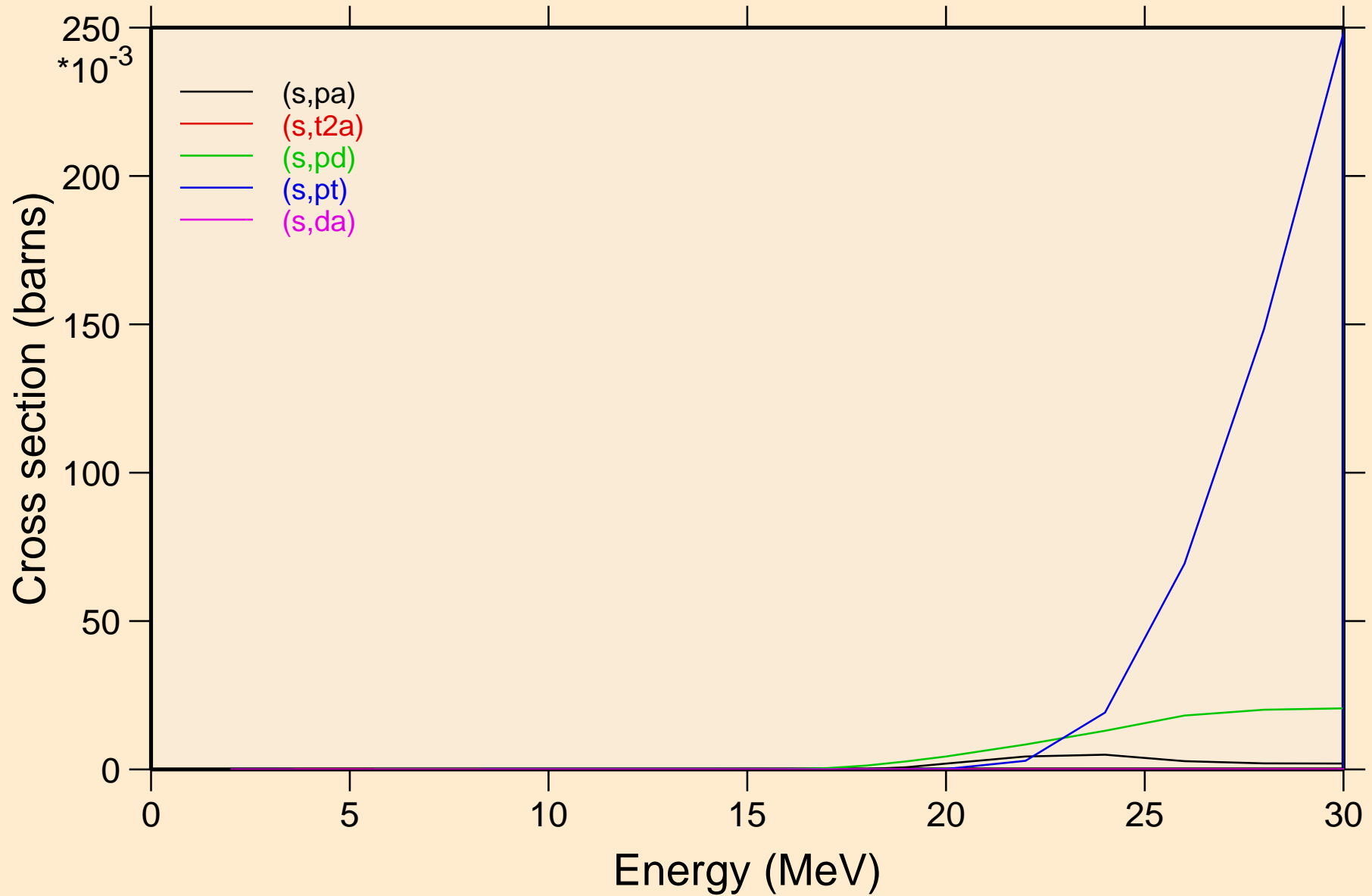
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



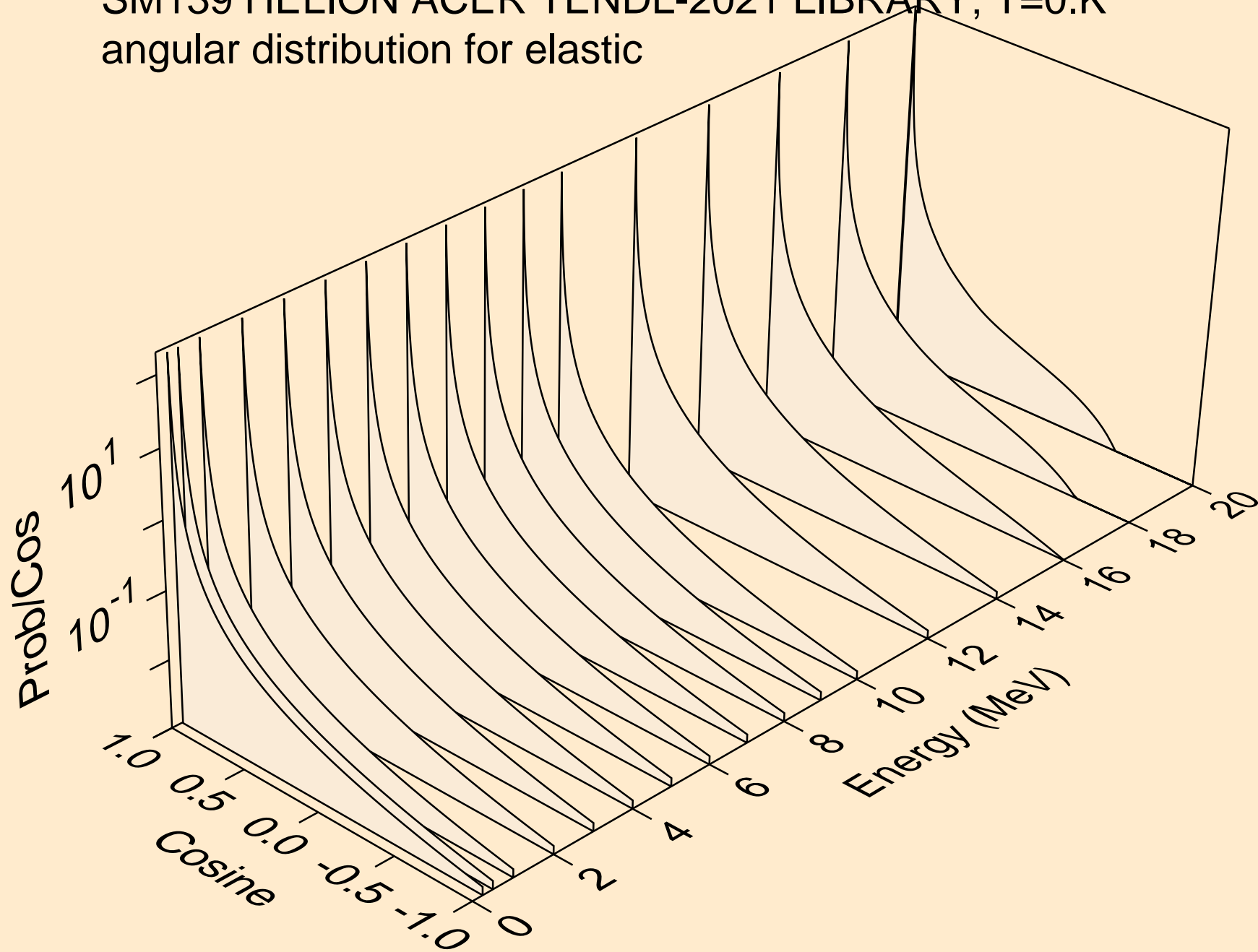
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



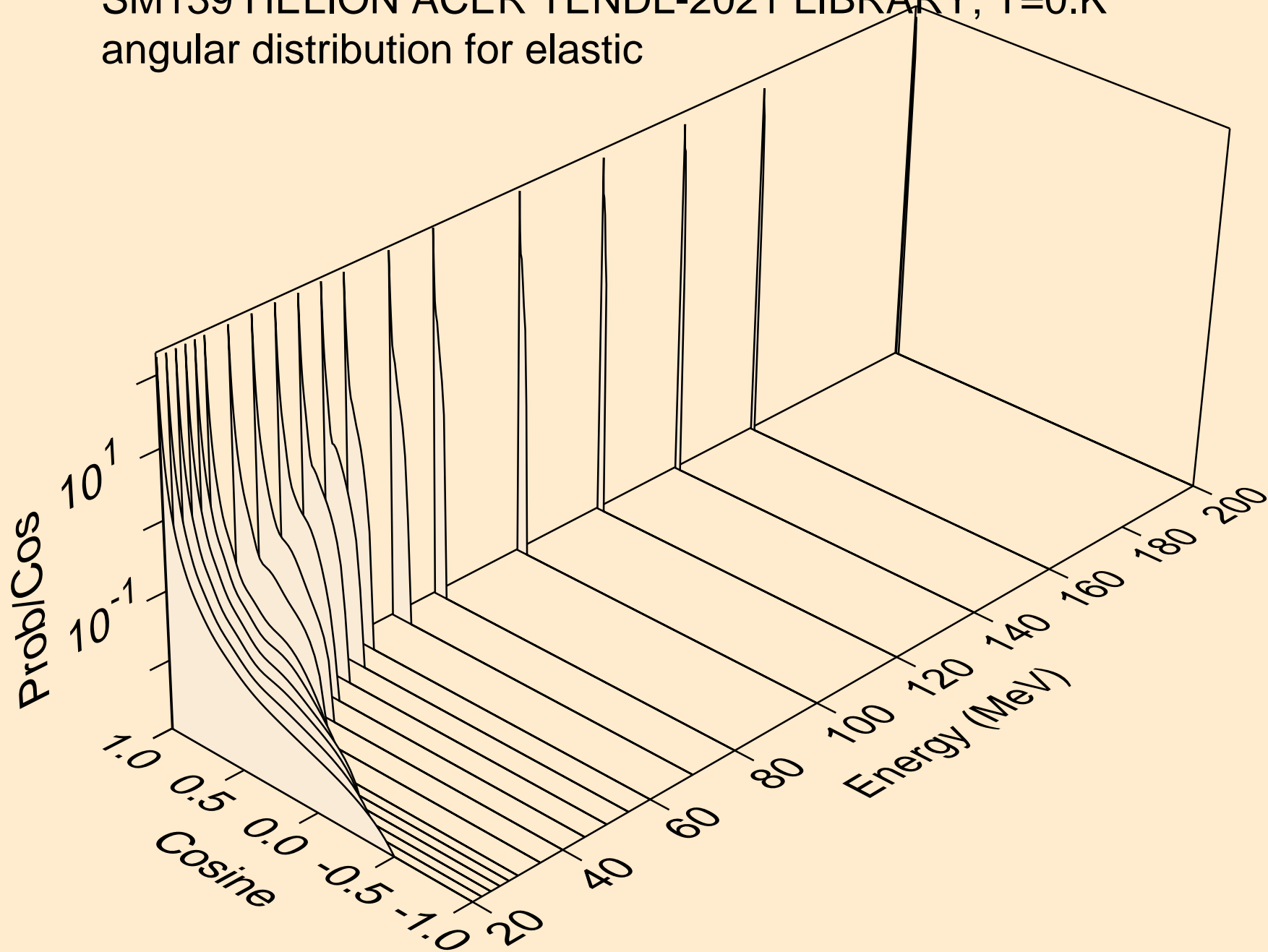
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



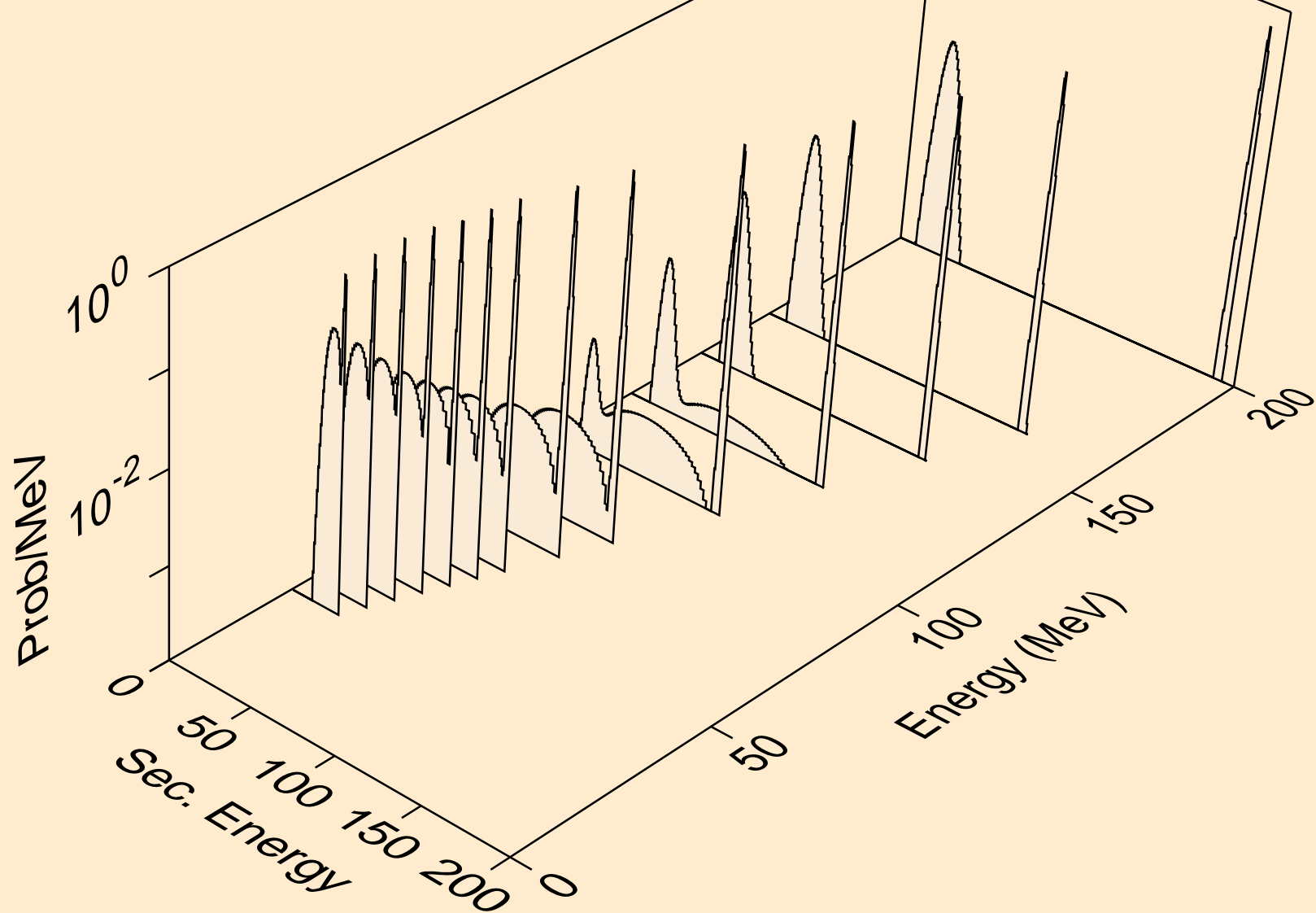
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



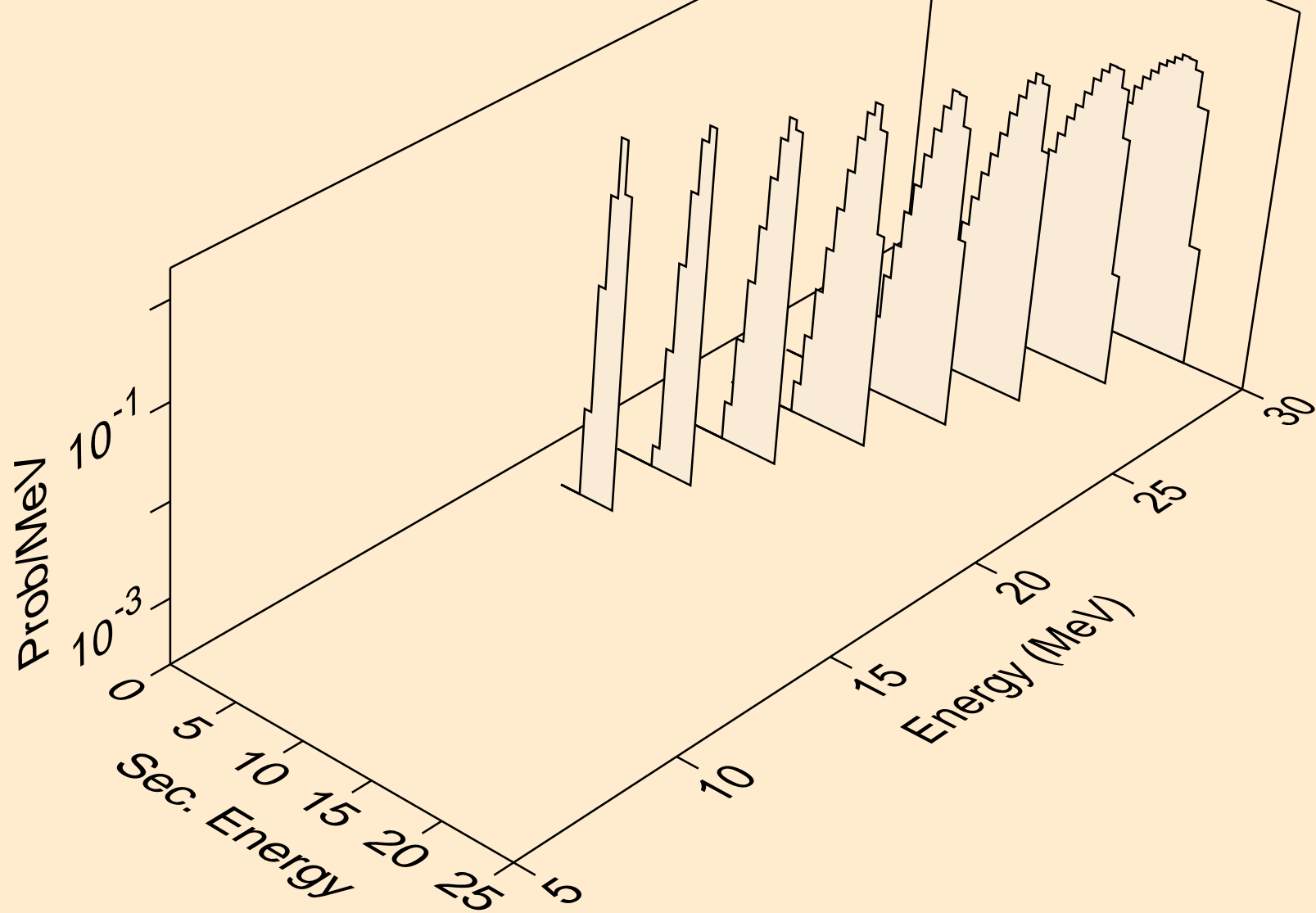
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



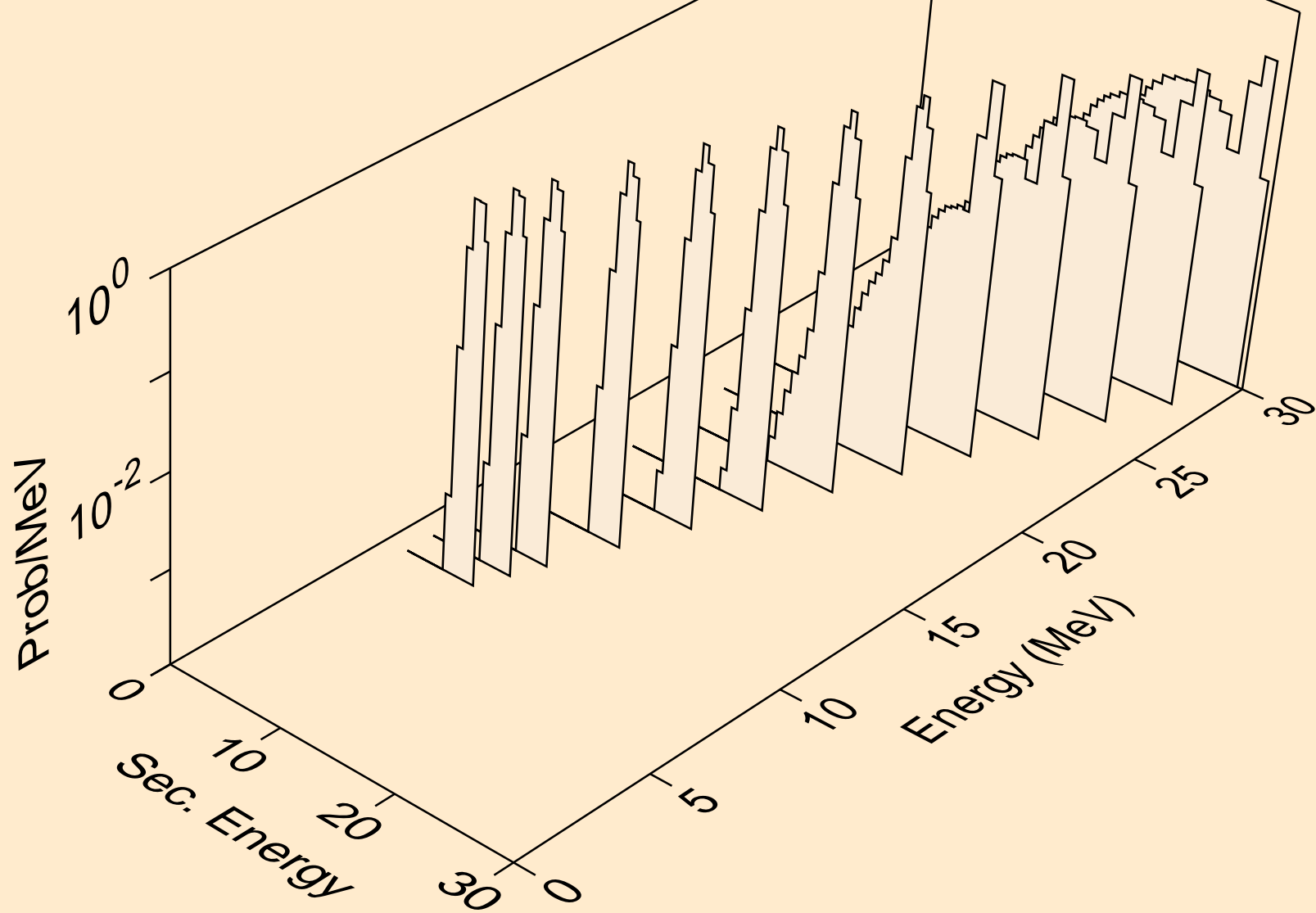
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,x)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3

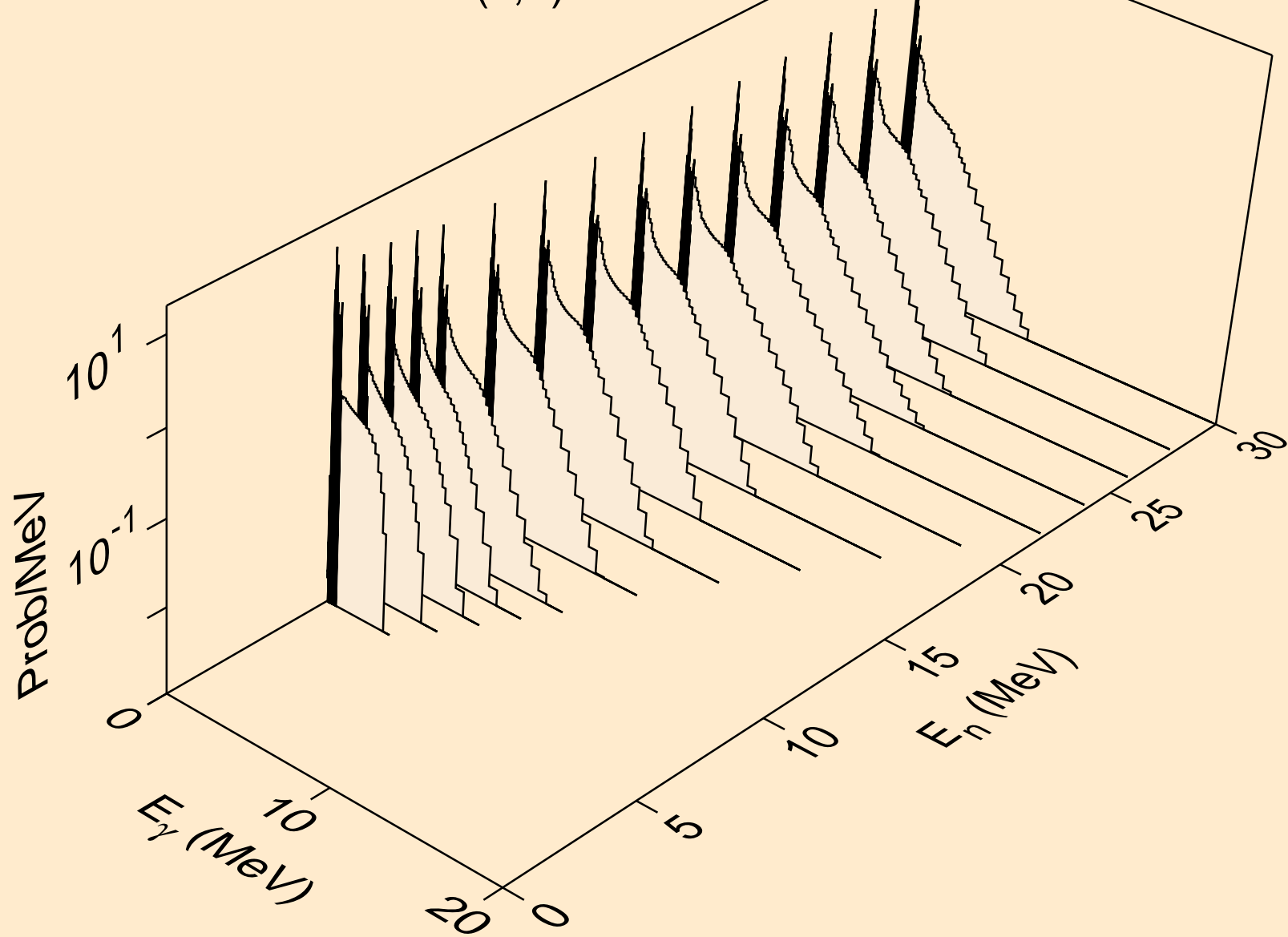


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
He-3 emission for inelastic

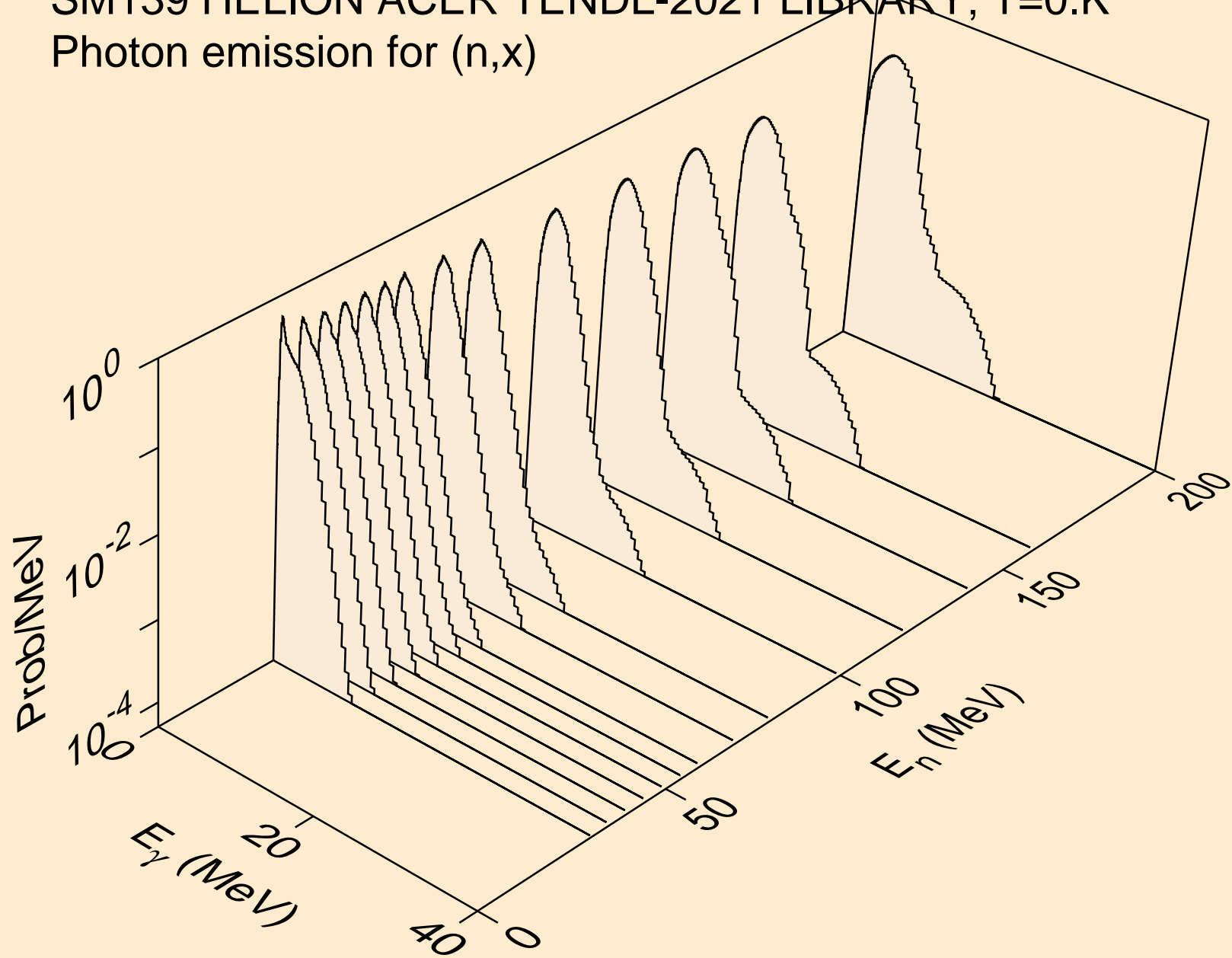




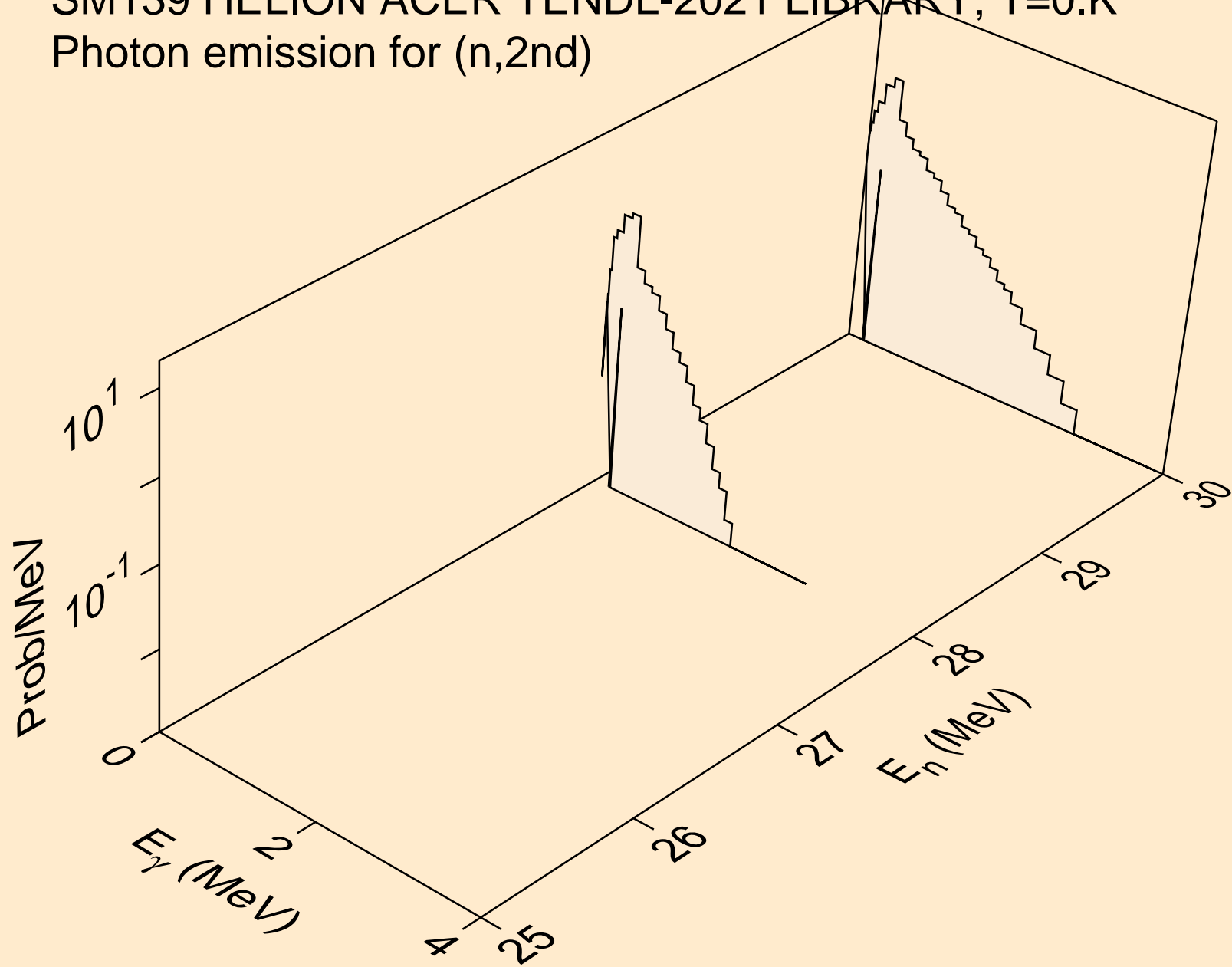
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



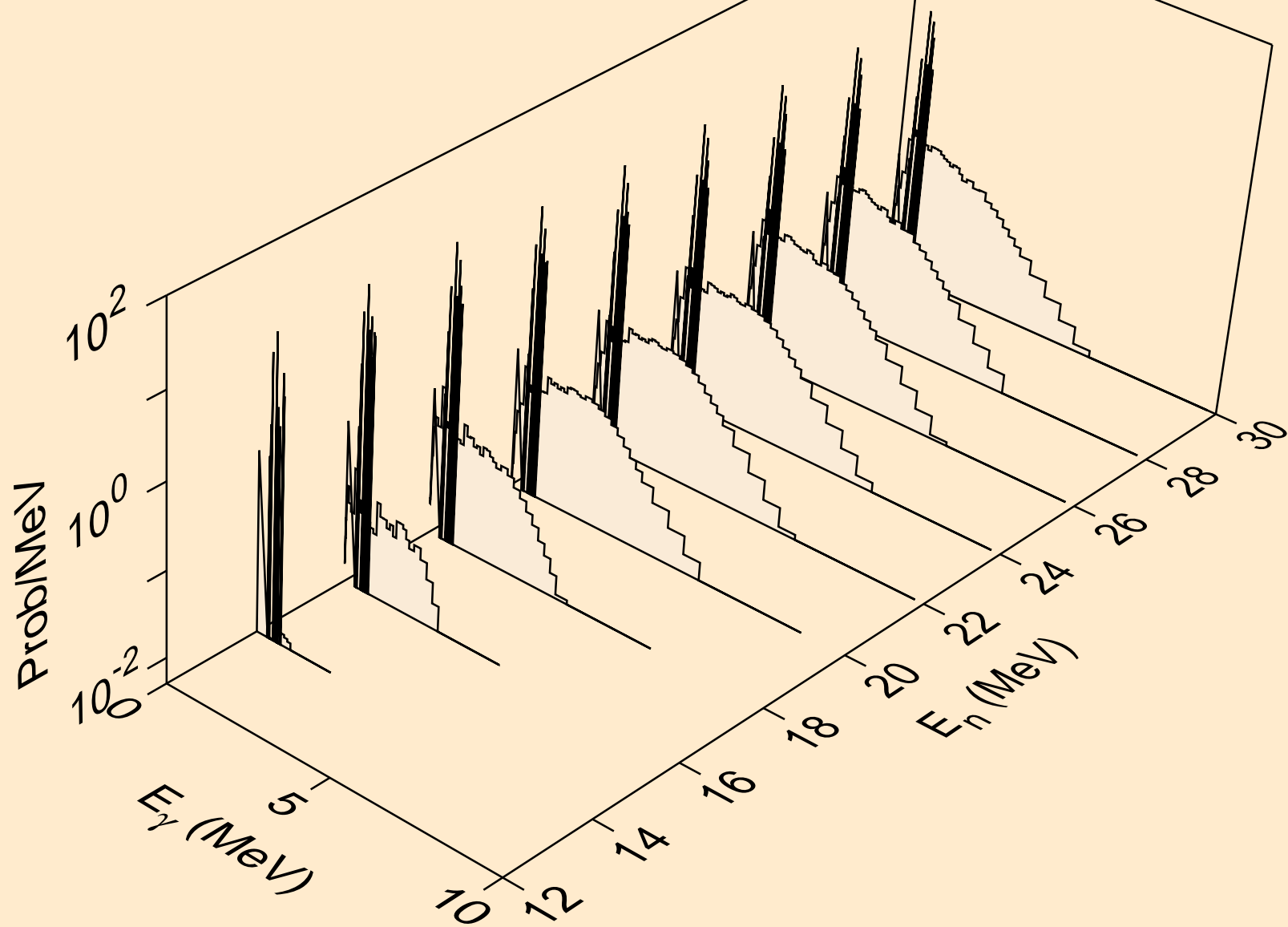
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



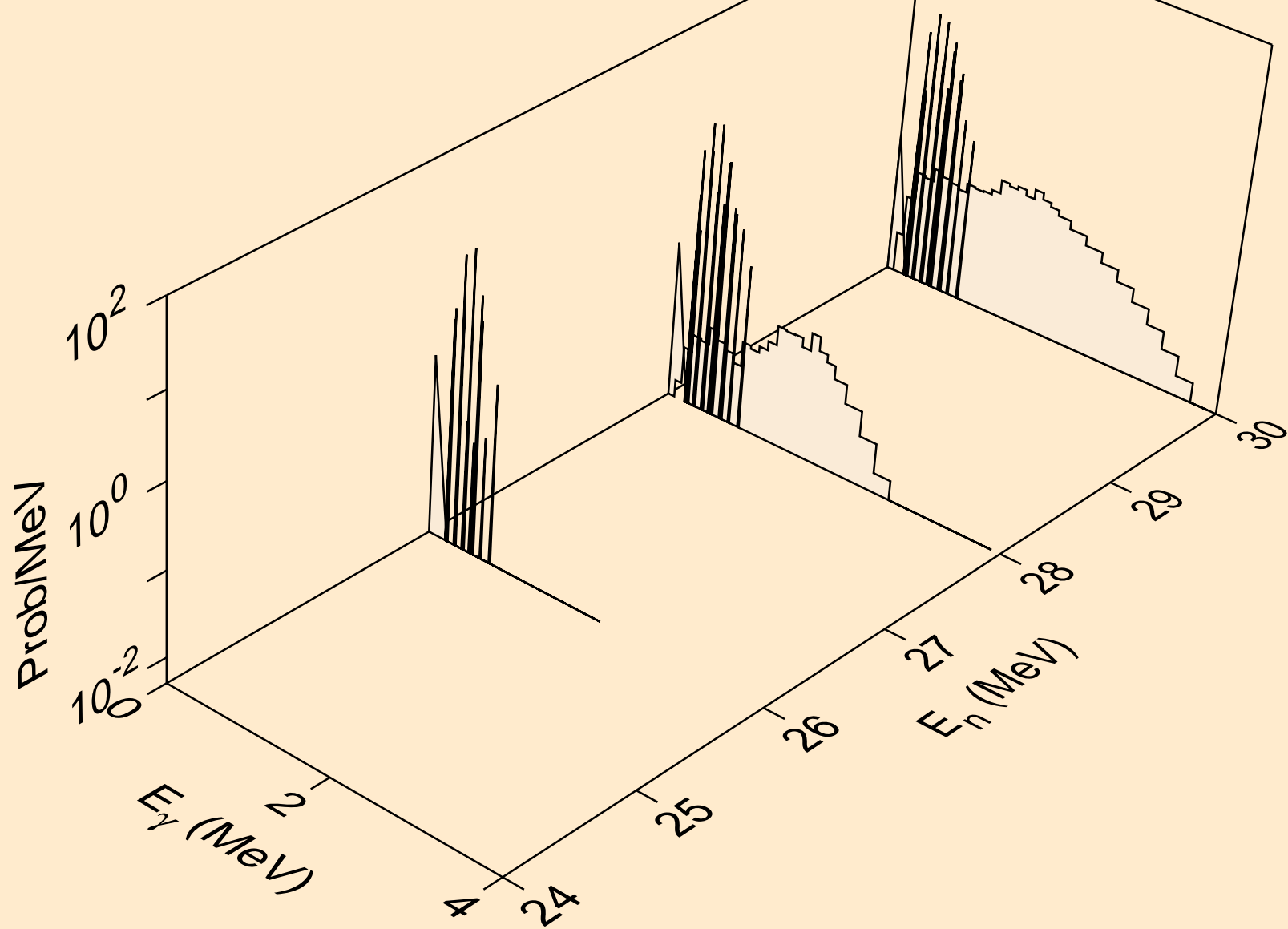
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2nd)



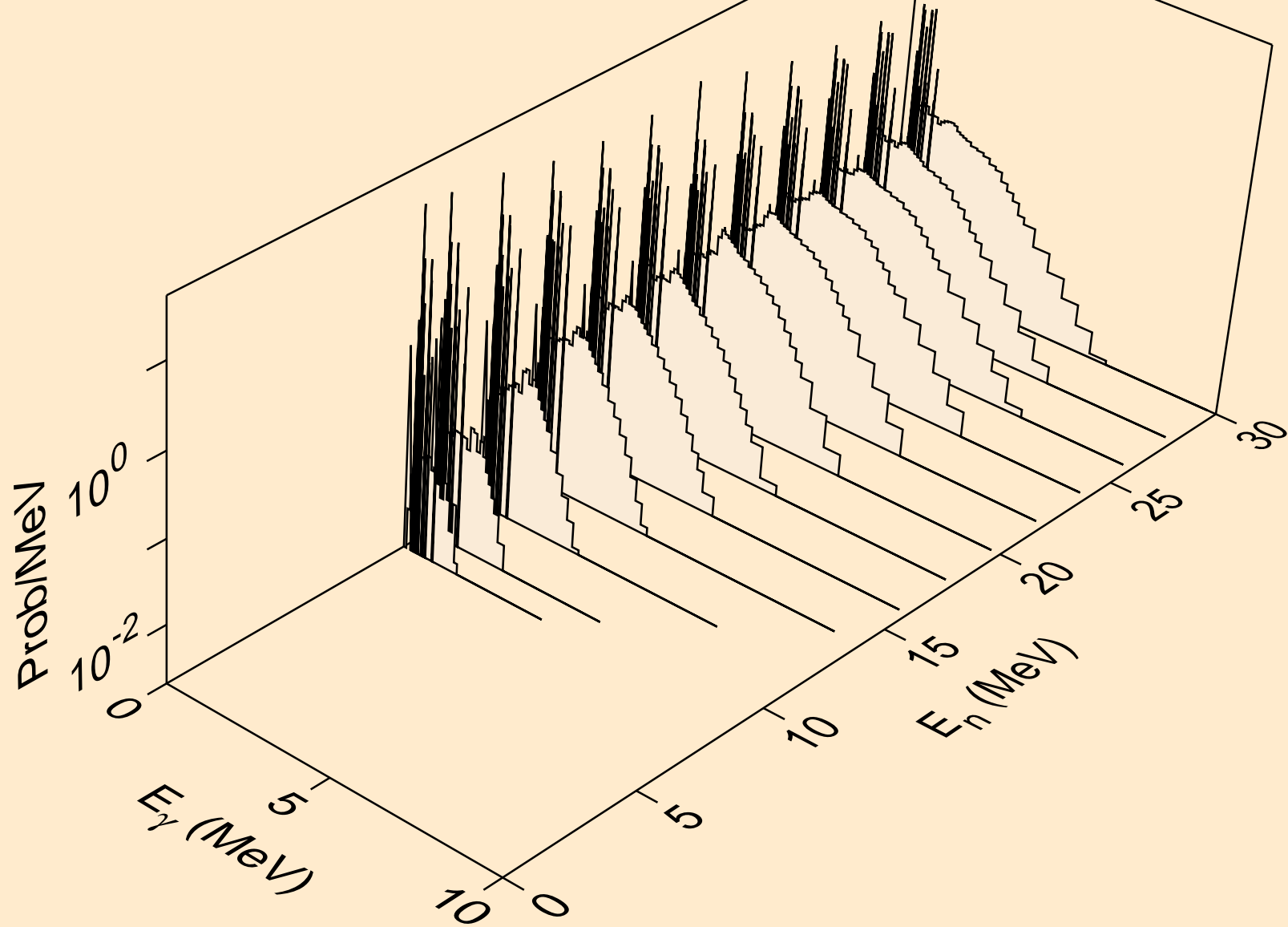
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



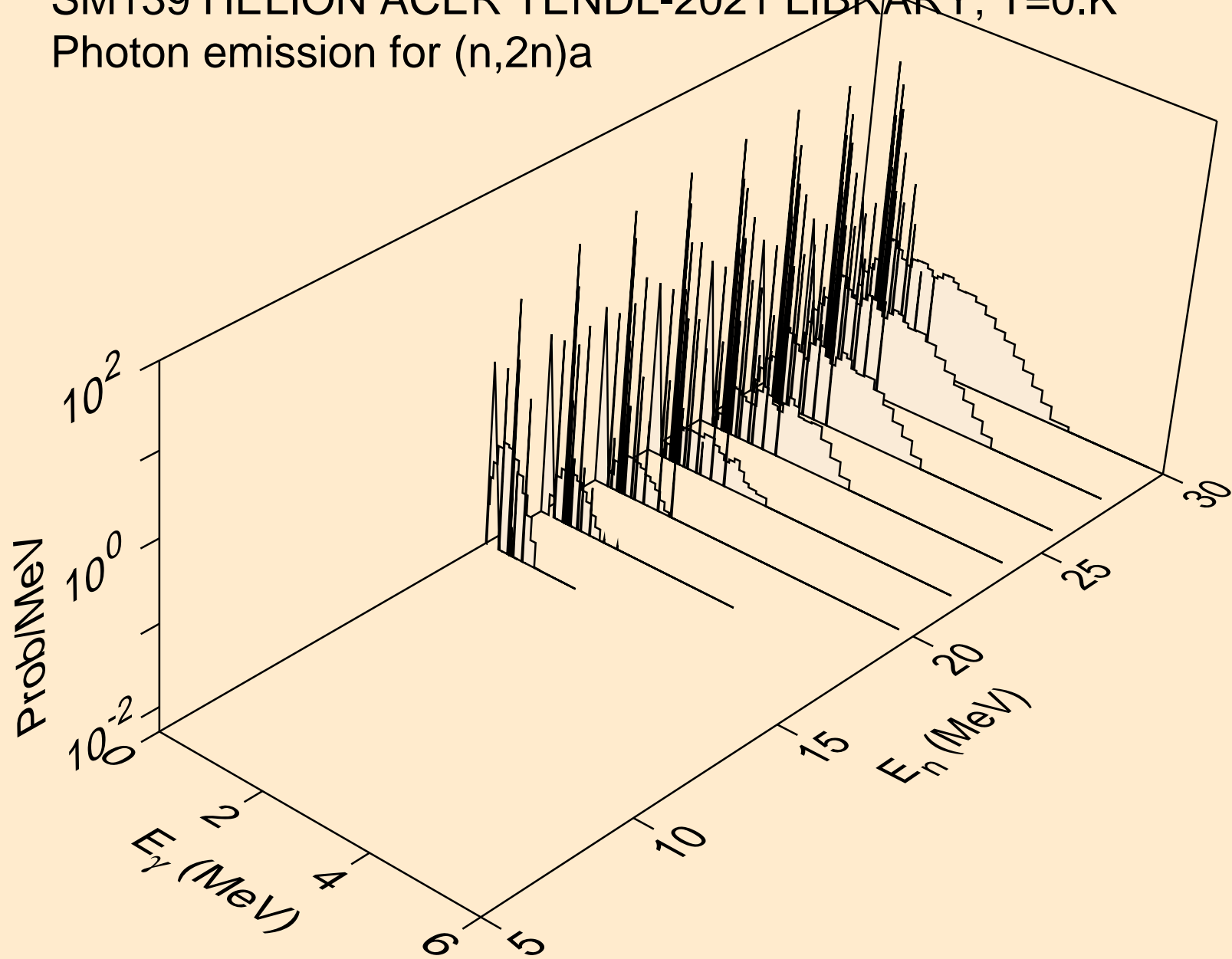
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



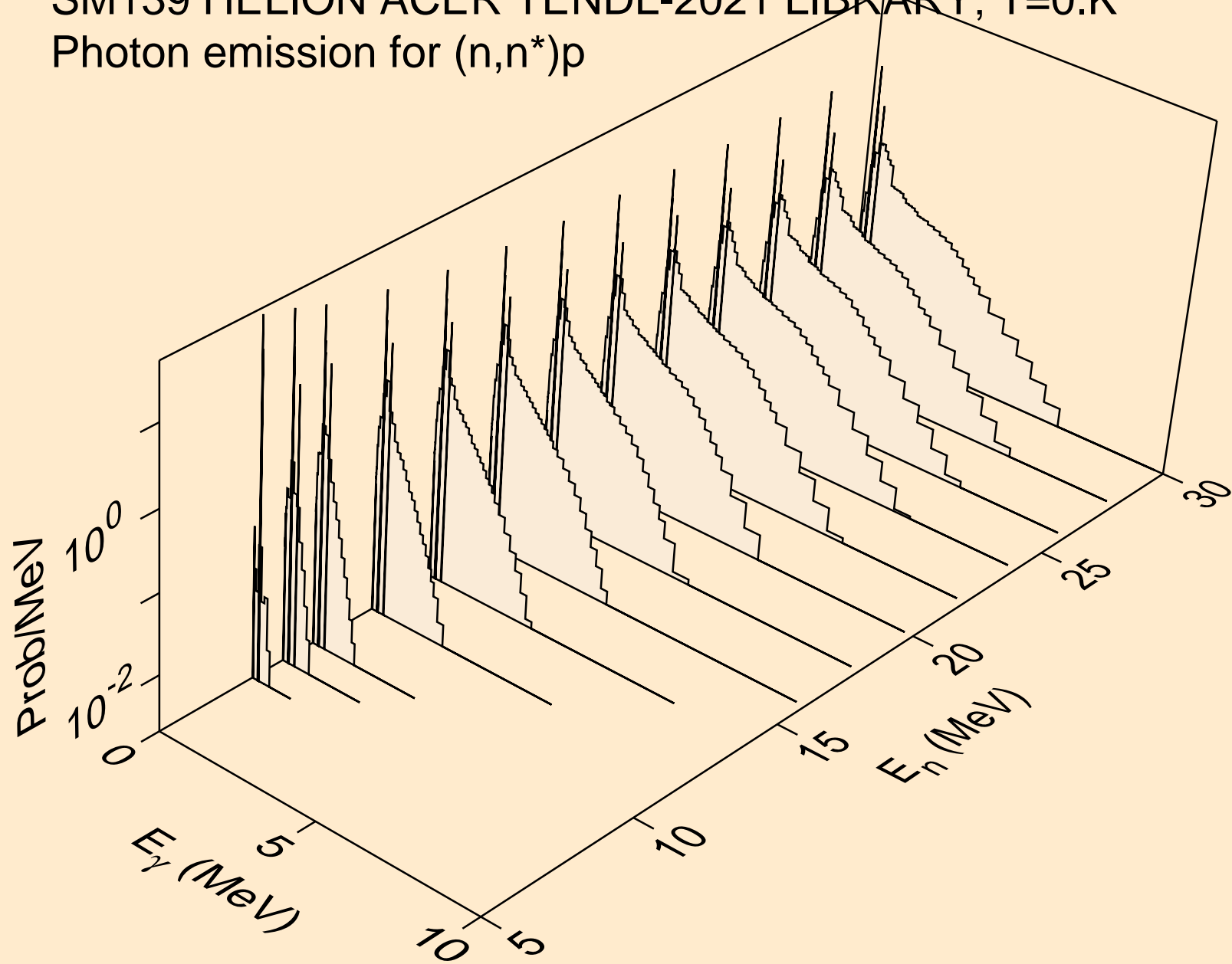
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)a

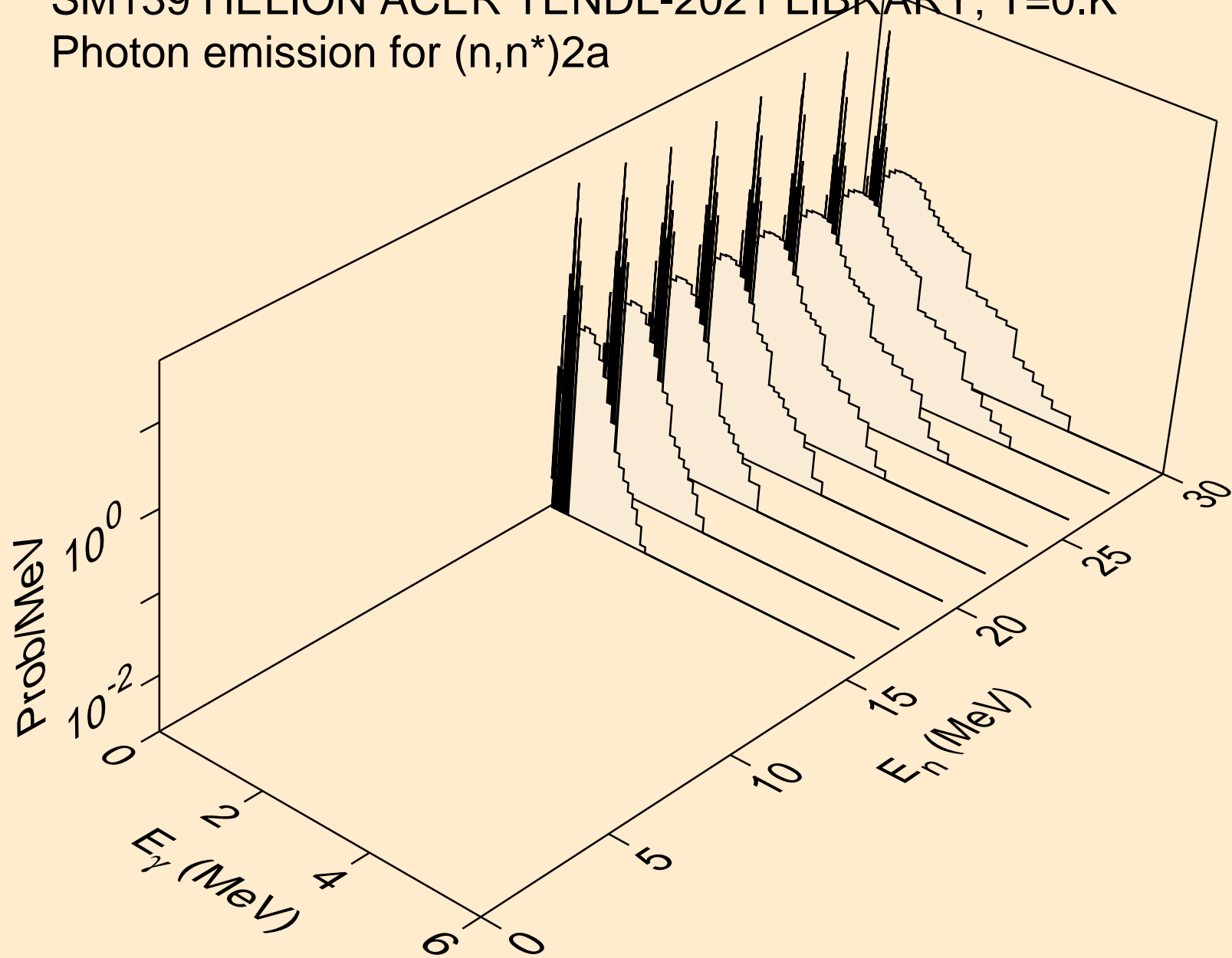


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

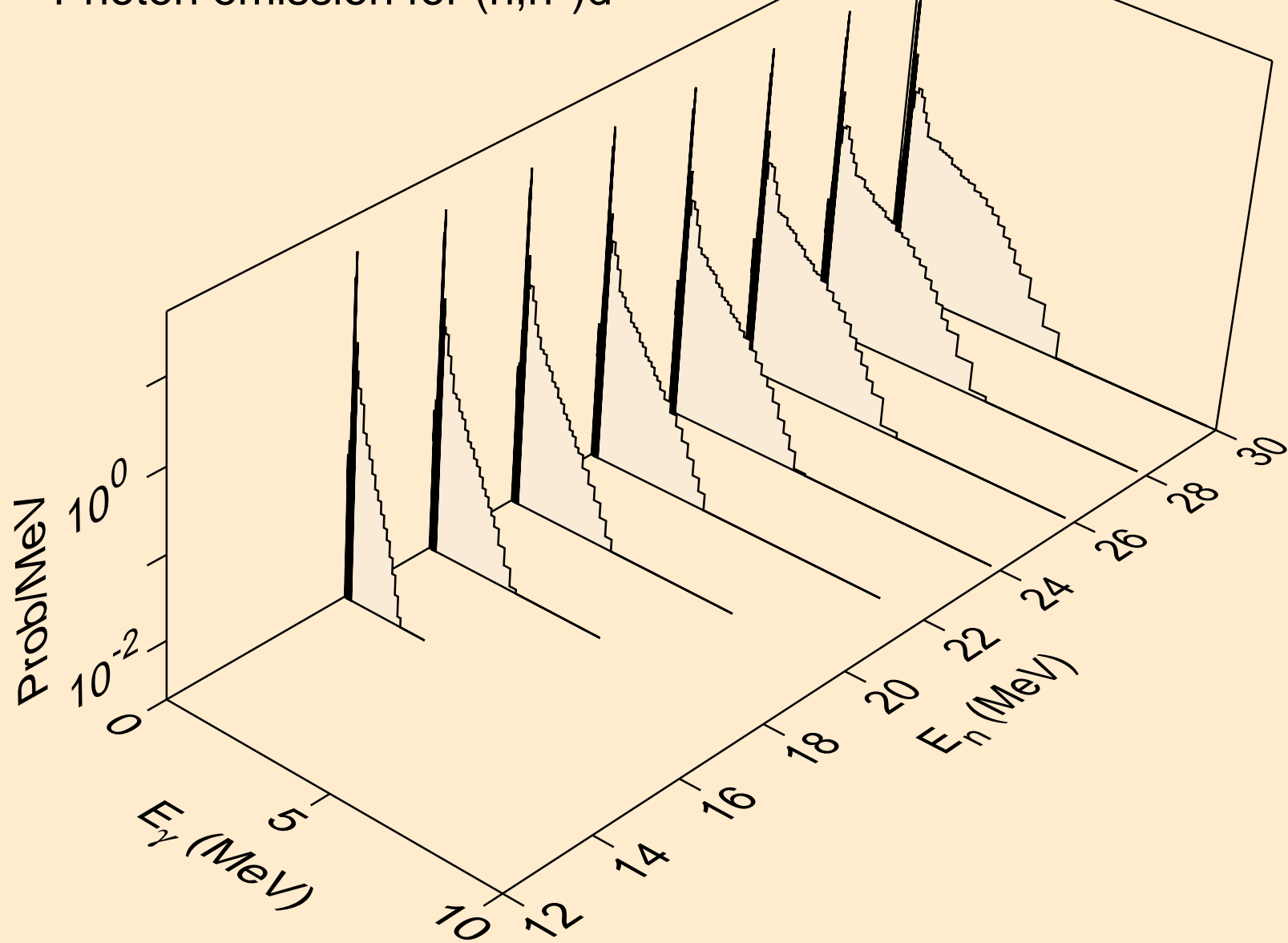




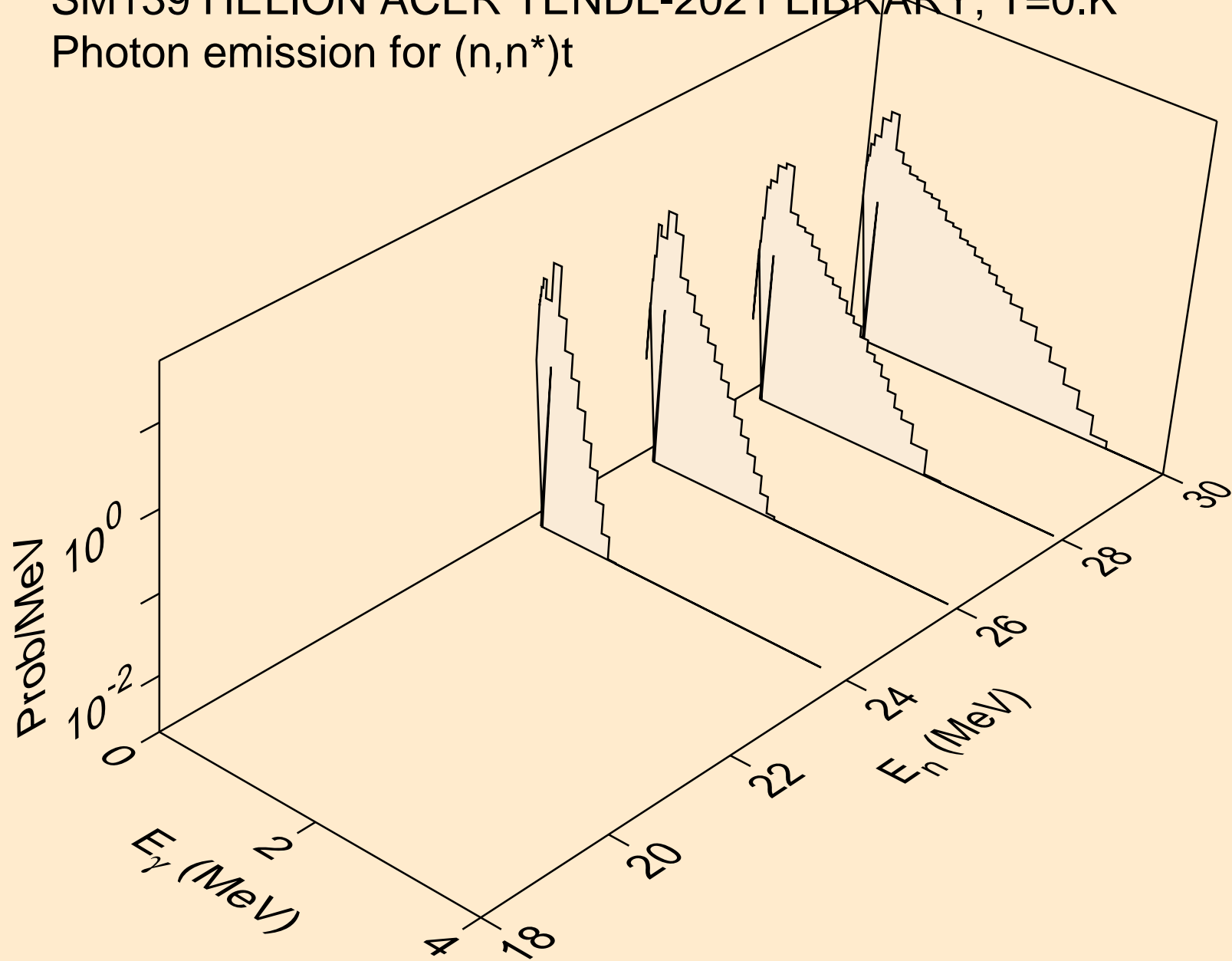
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



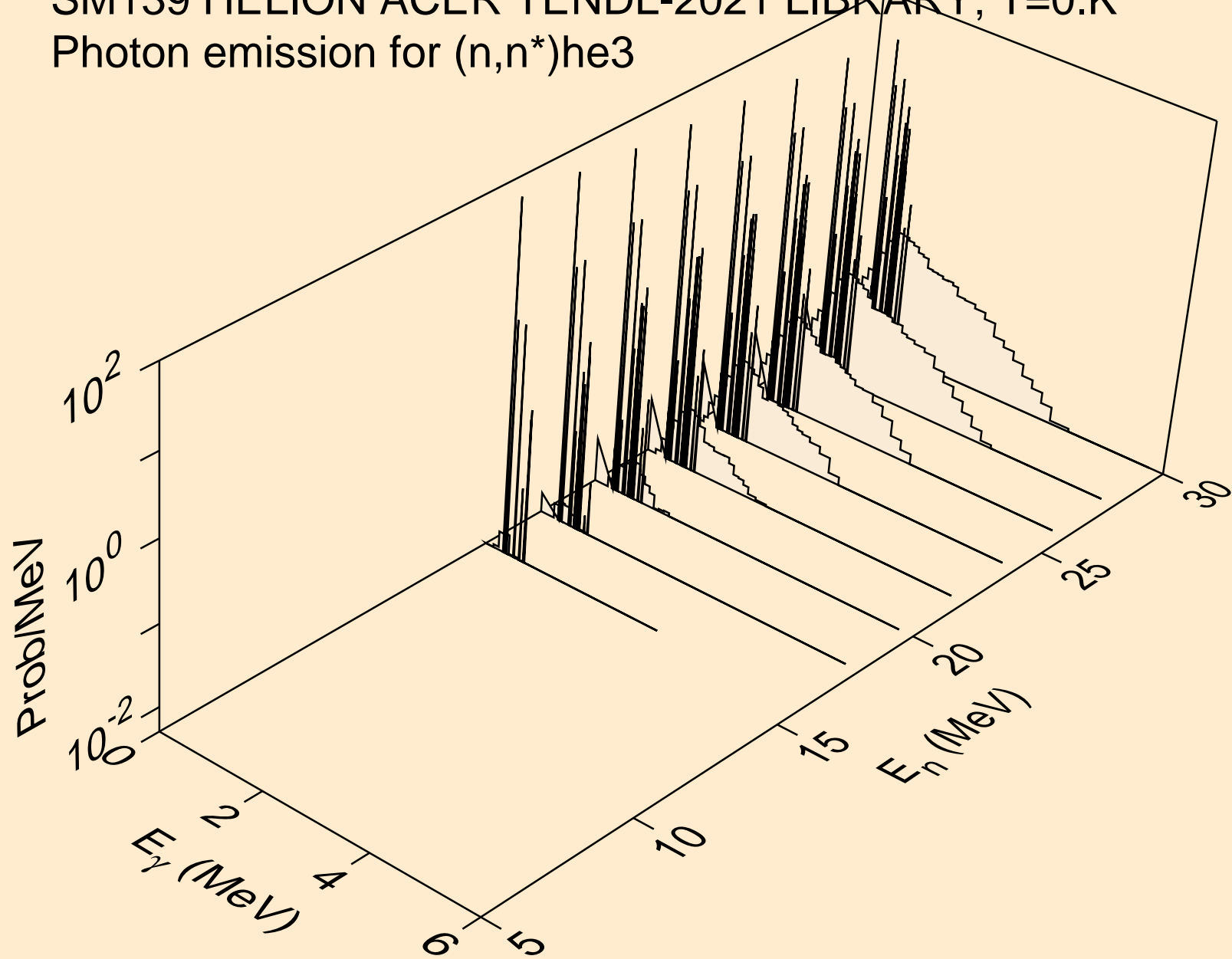
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



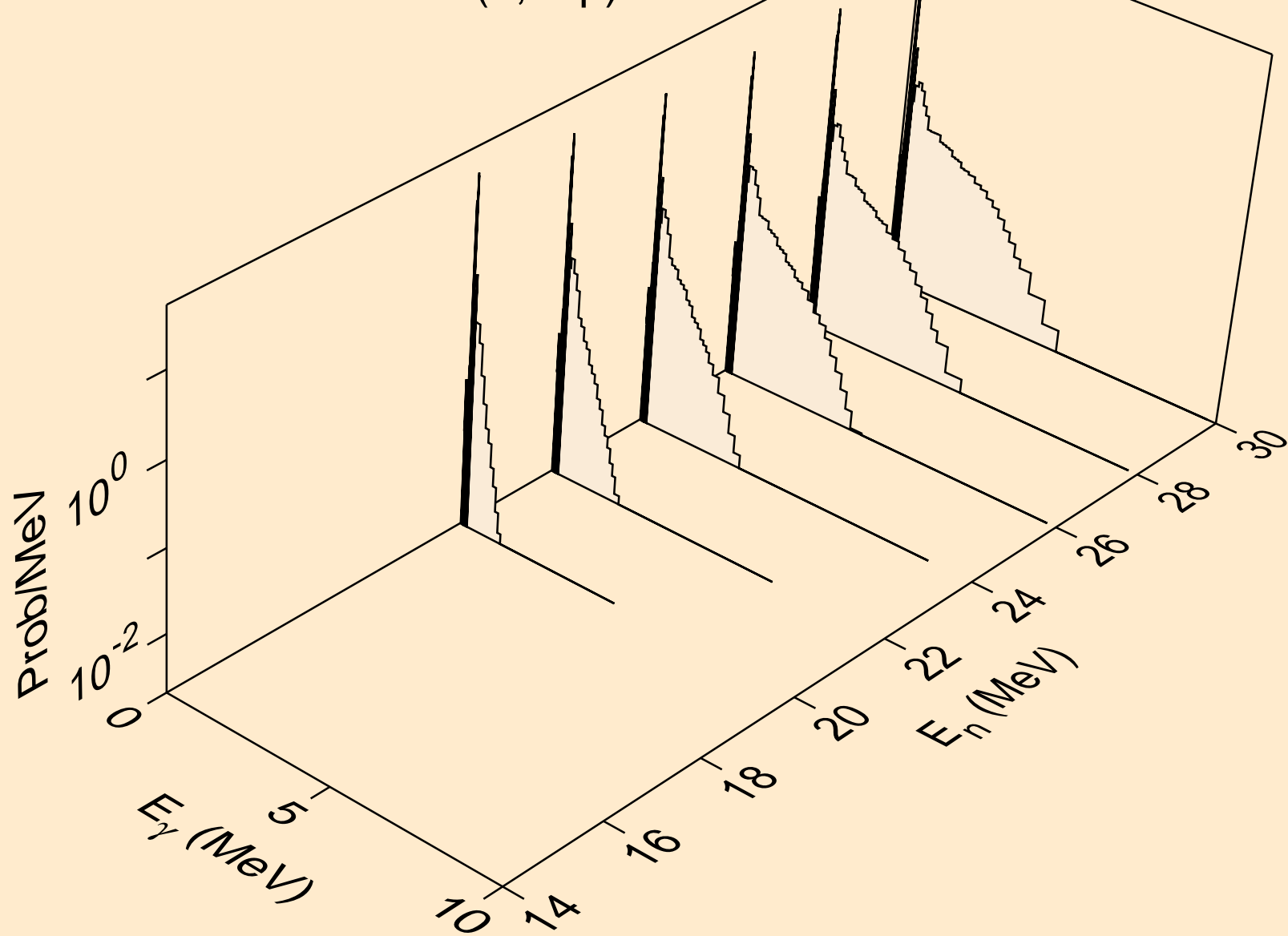
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



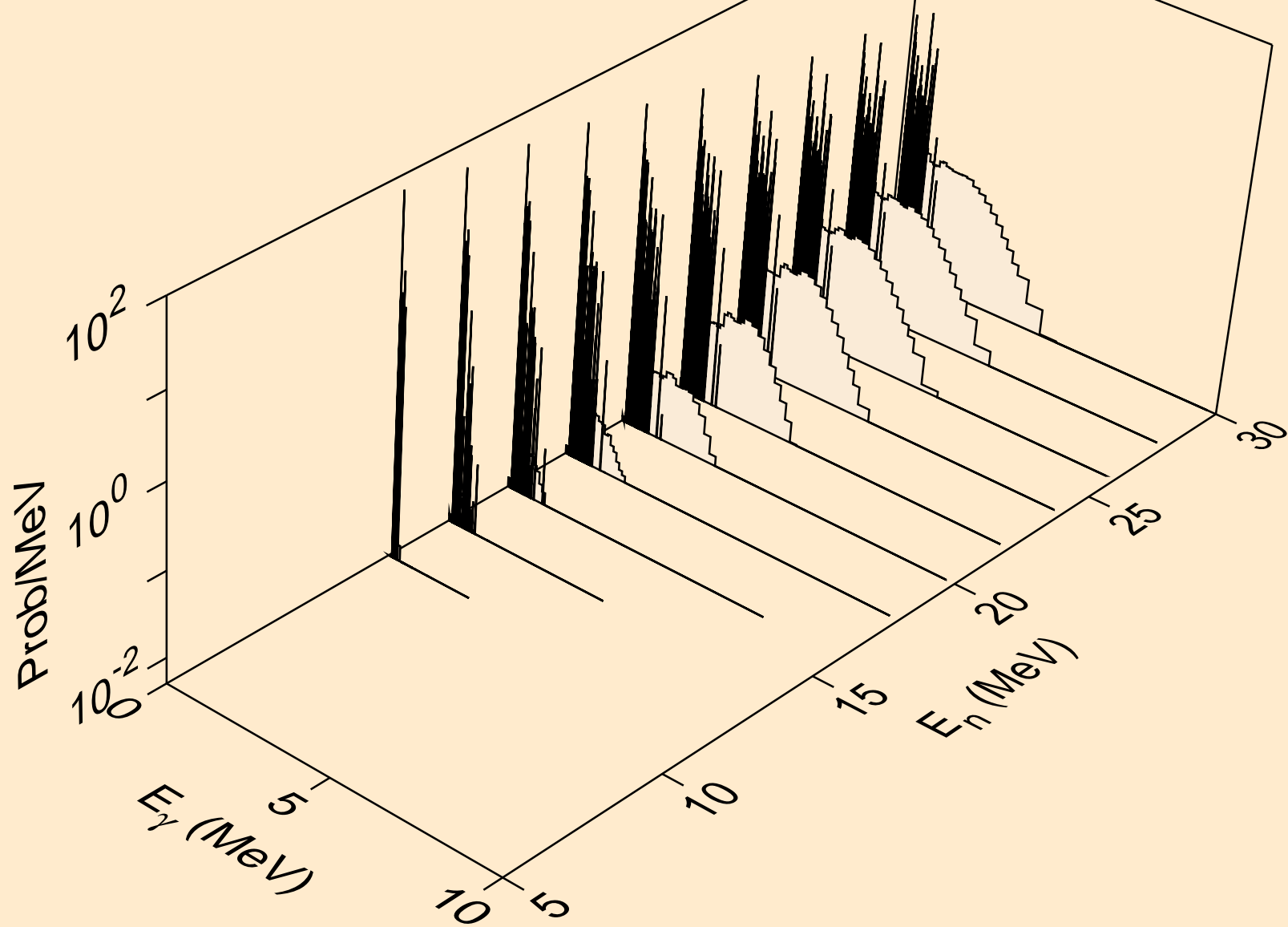
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



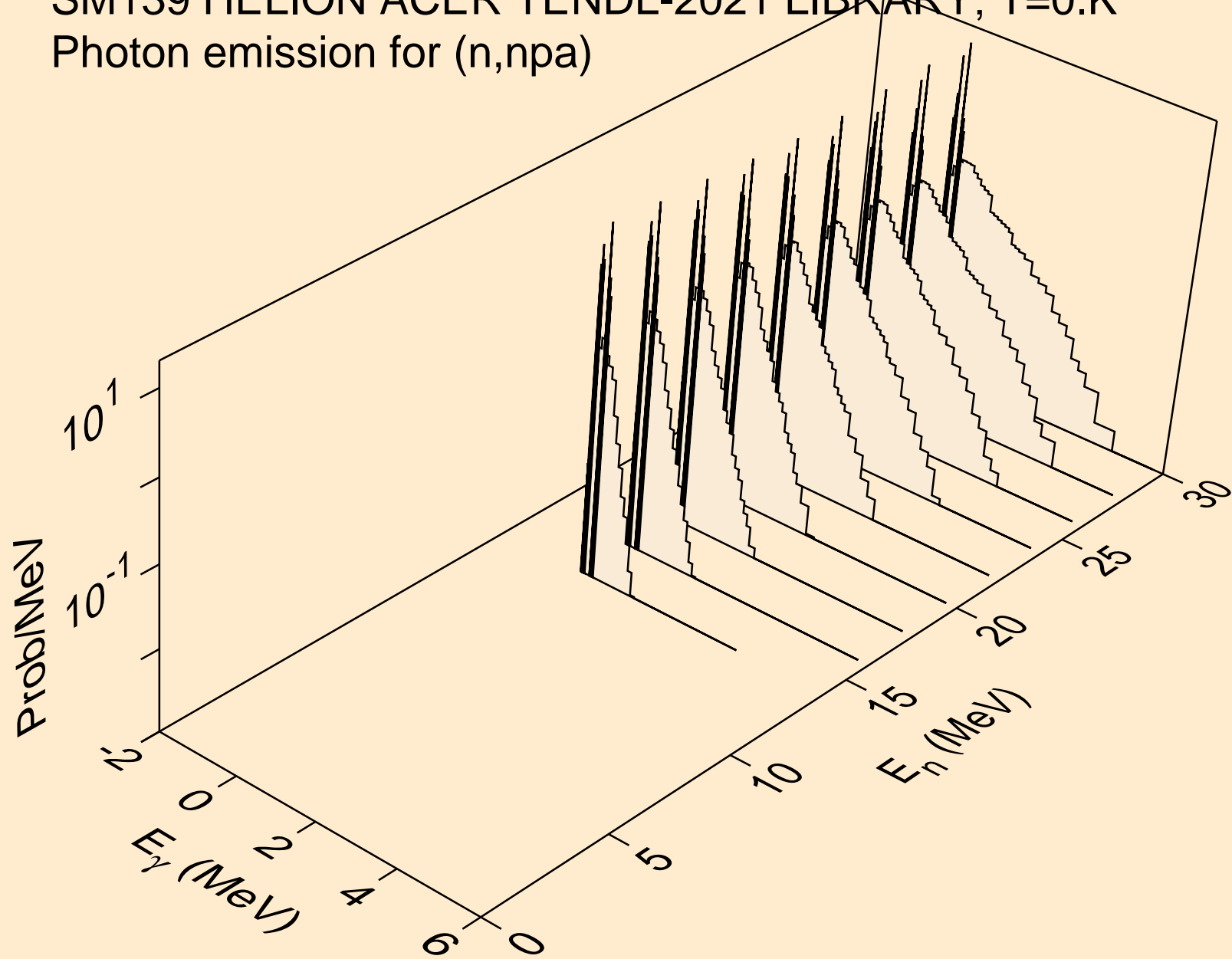
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Photon emission for (n,2np)



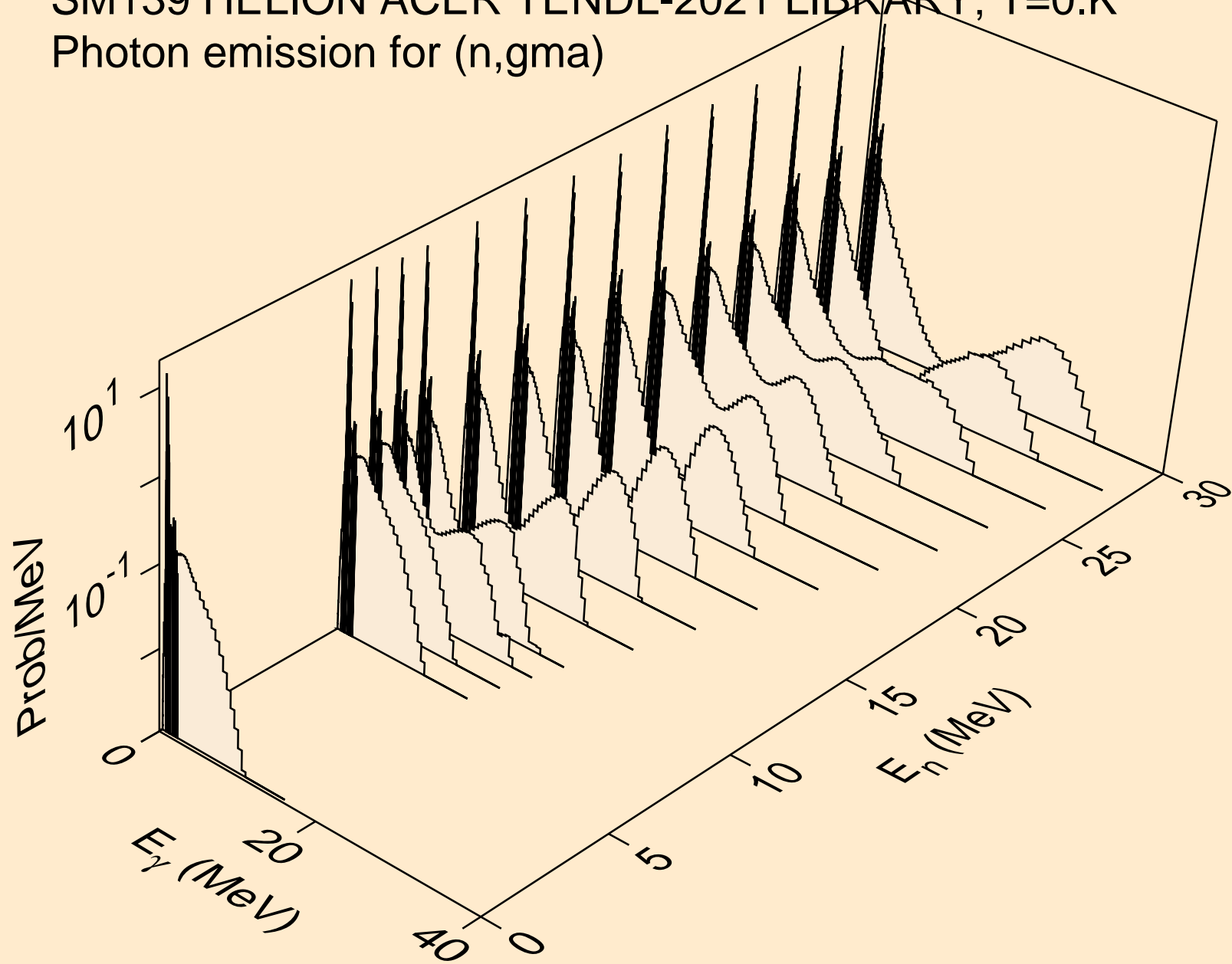
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,npa)

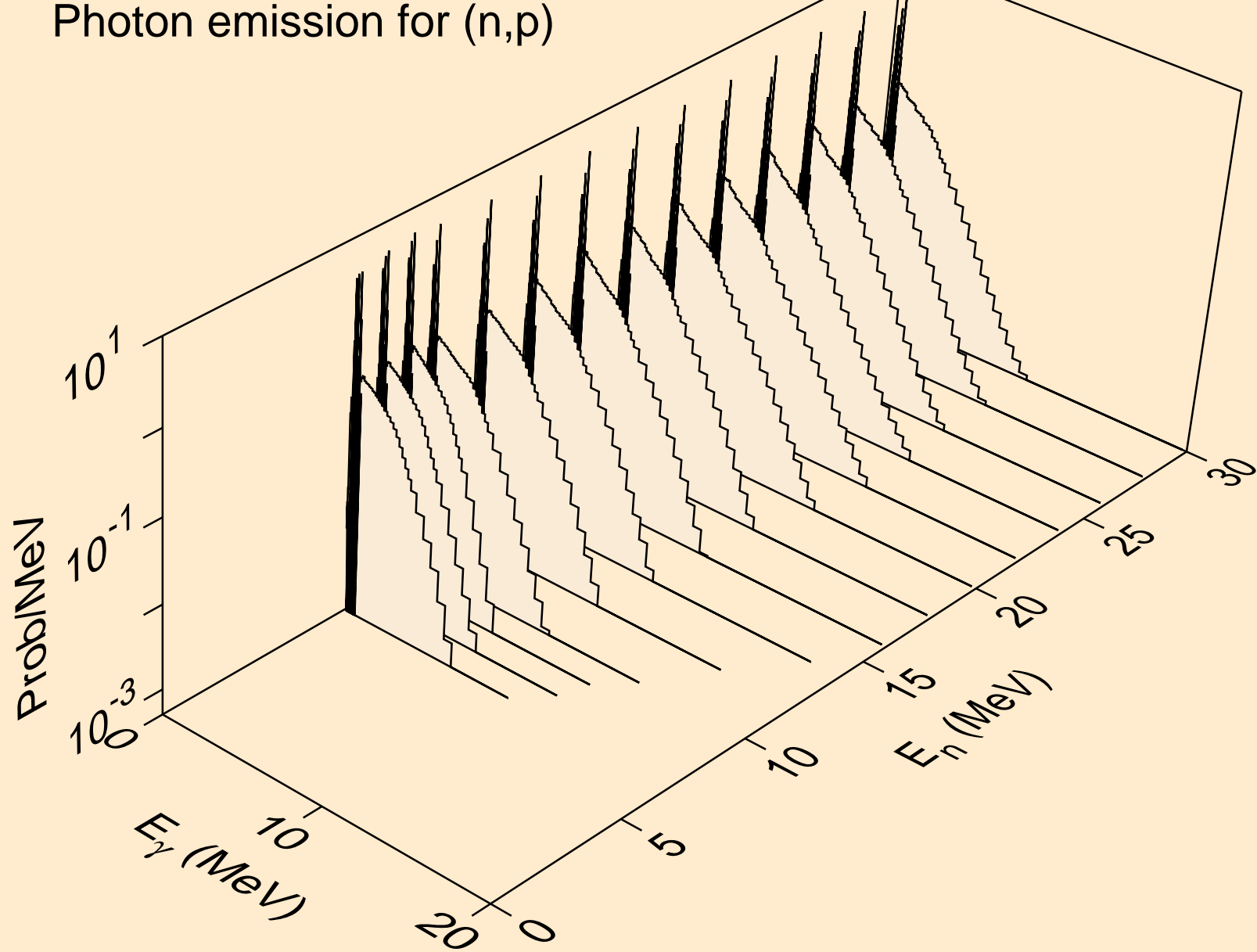


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Photon emission for (n,gma)

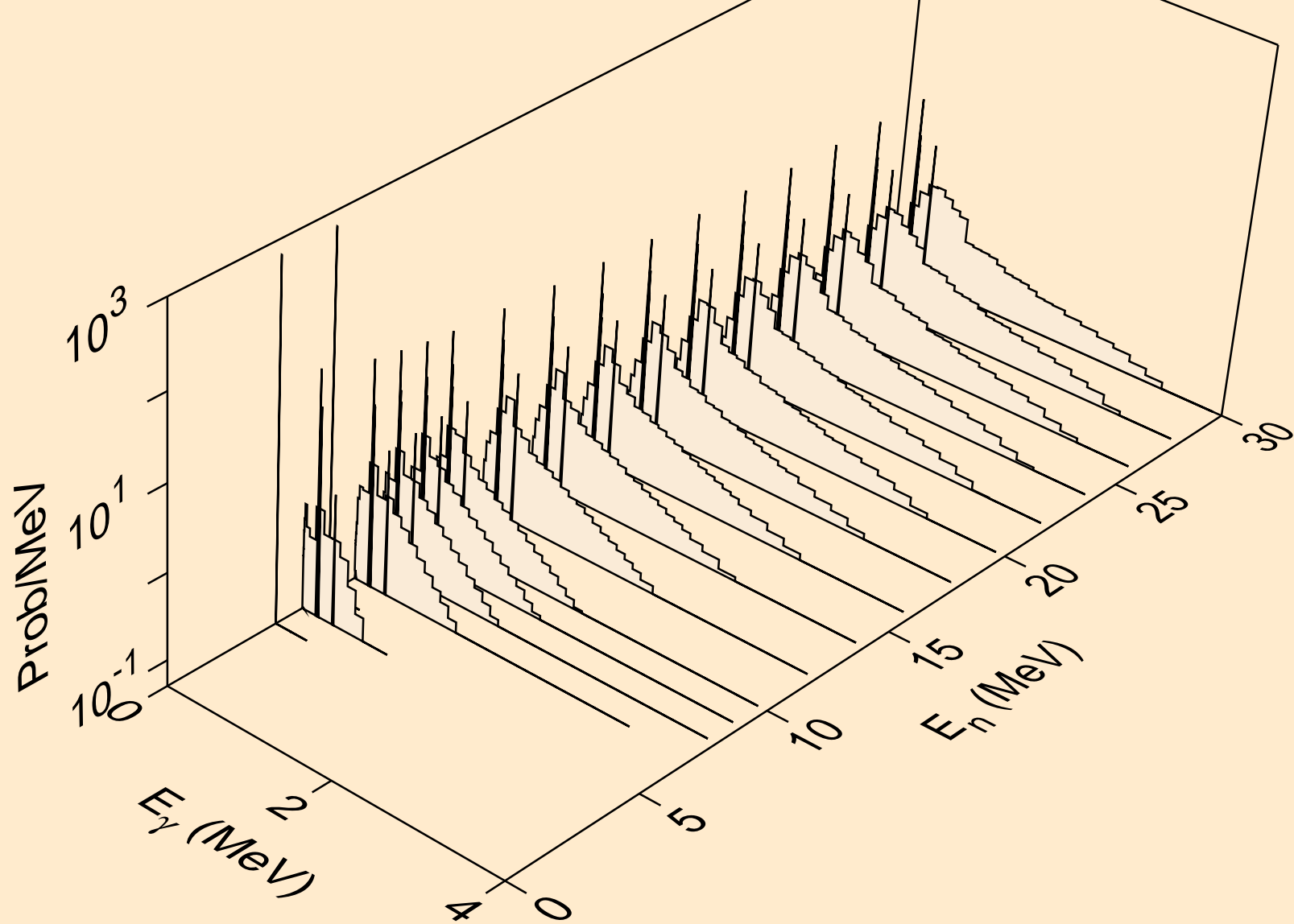




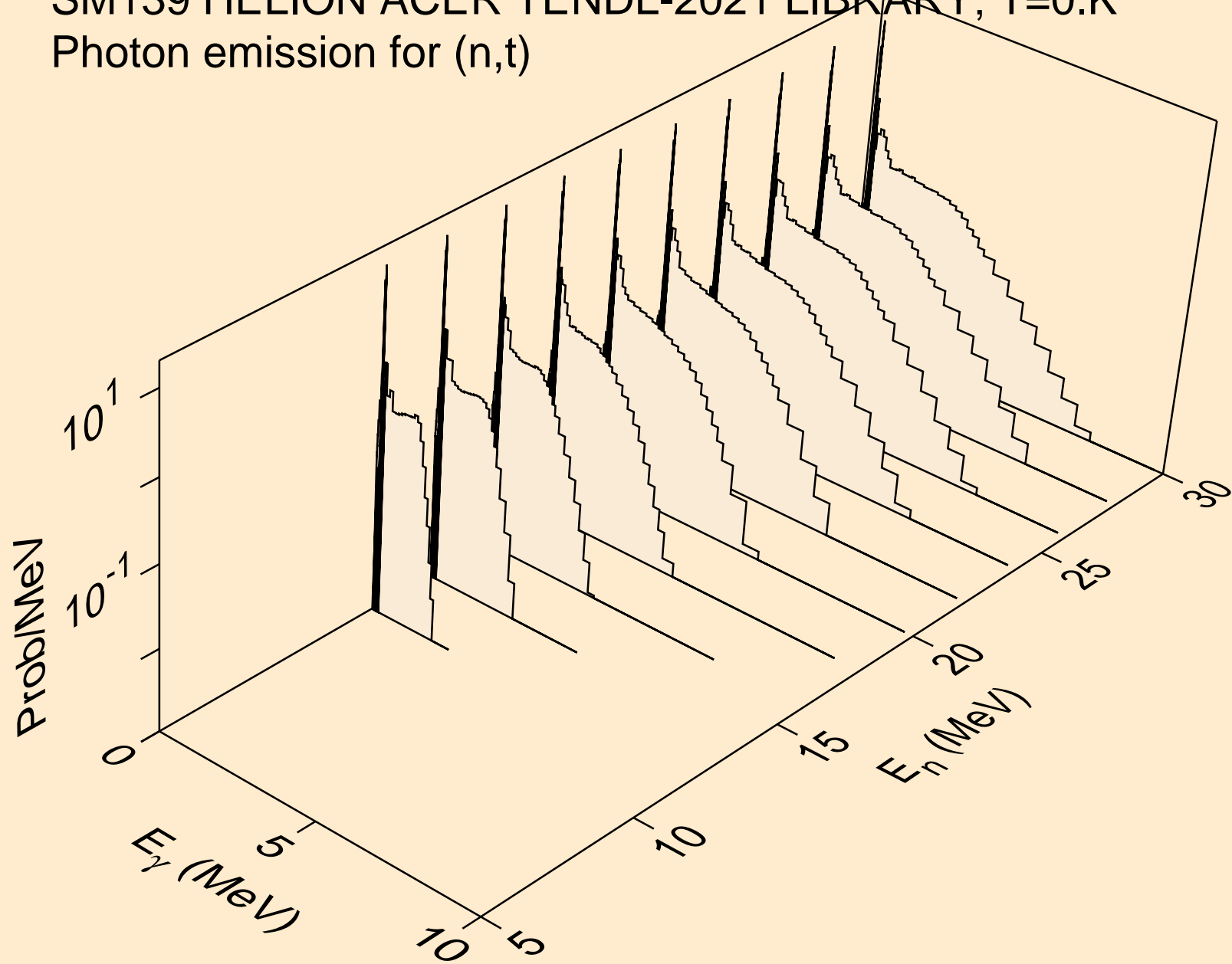
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Photon emission for (n,p)



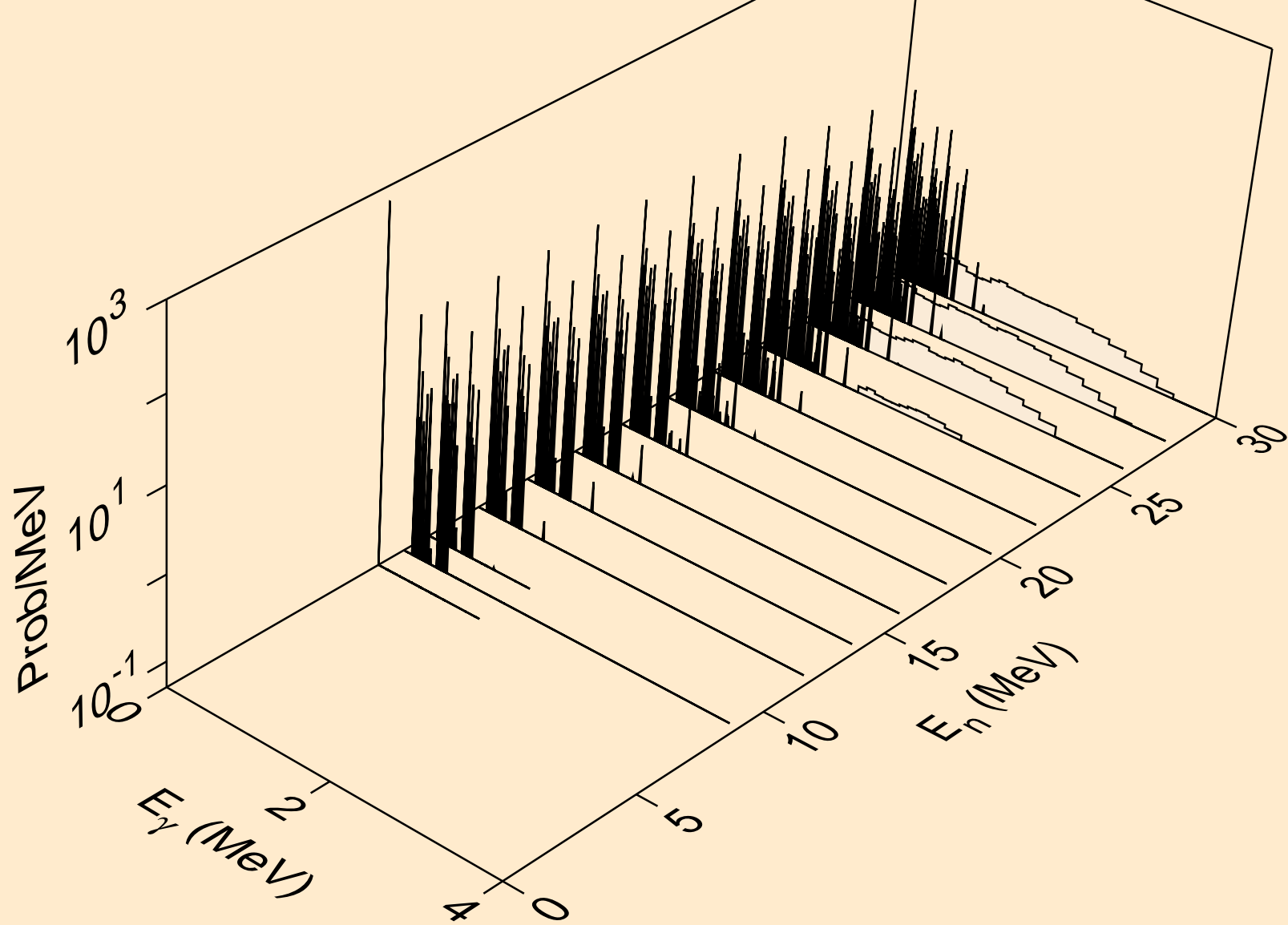
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Photon emission for (n,d)



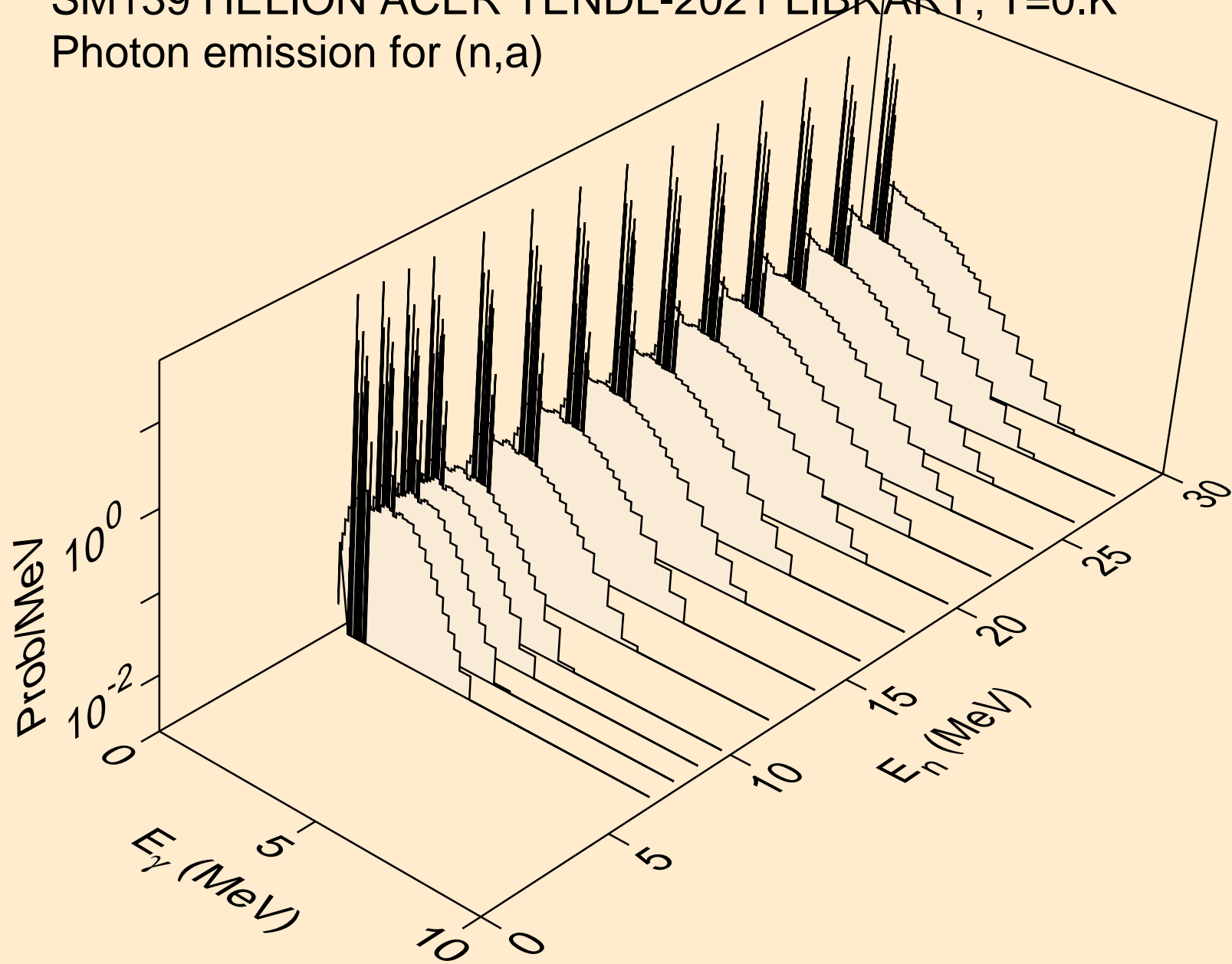
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Photon emission for (n,t)



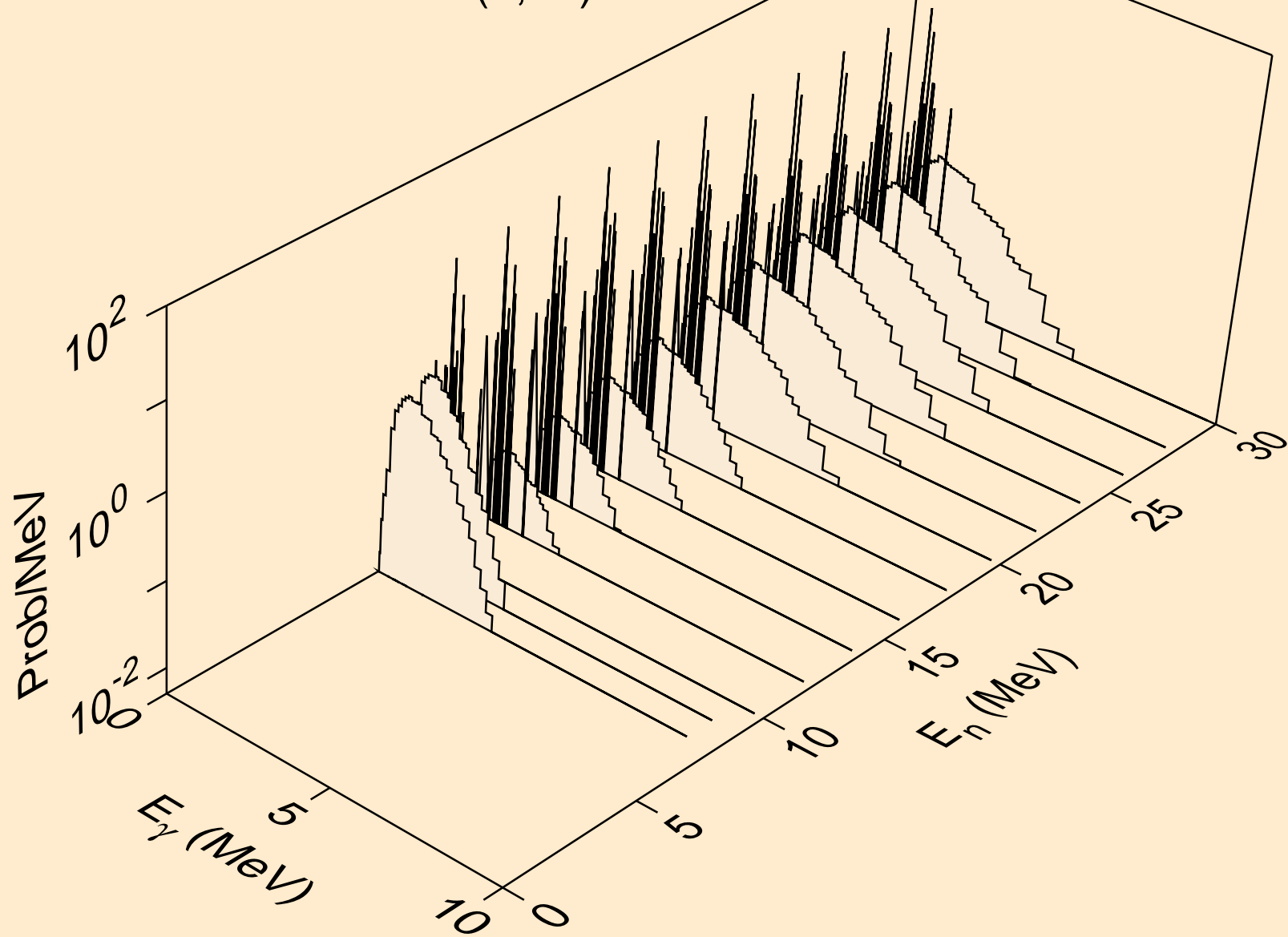
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Photon emission for inelastic



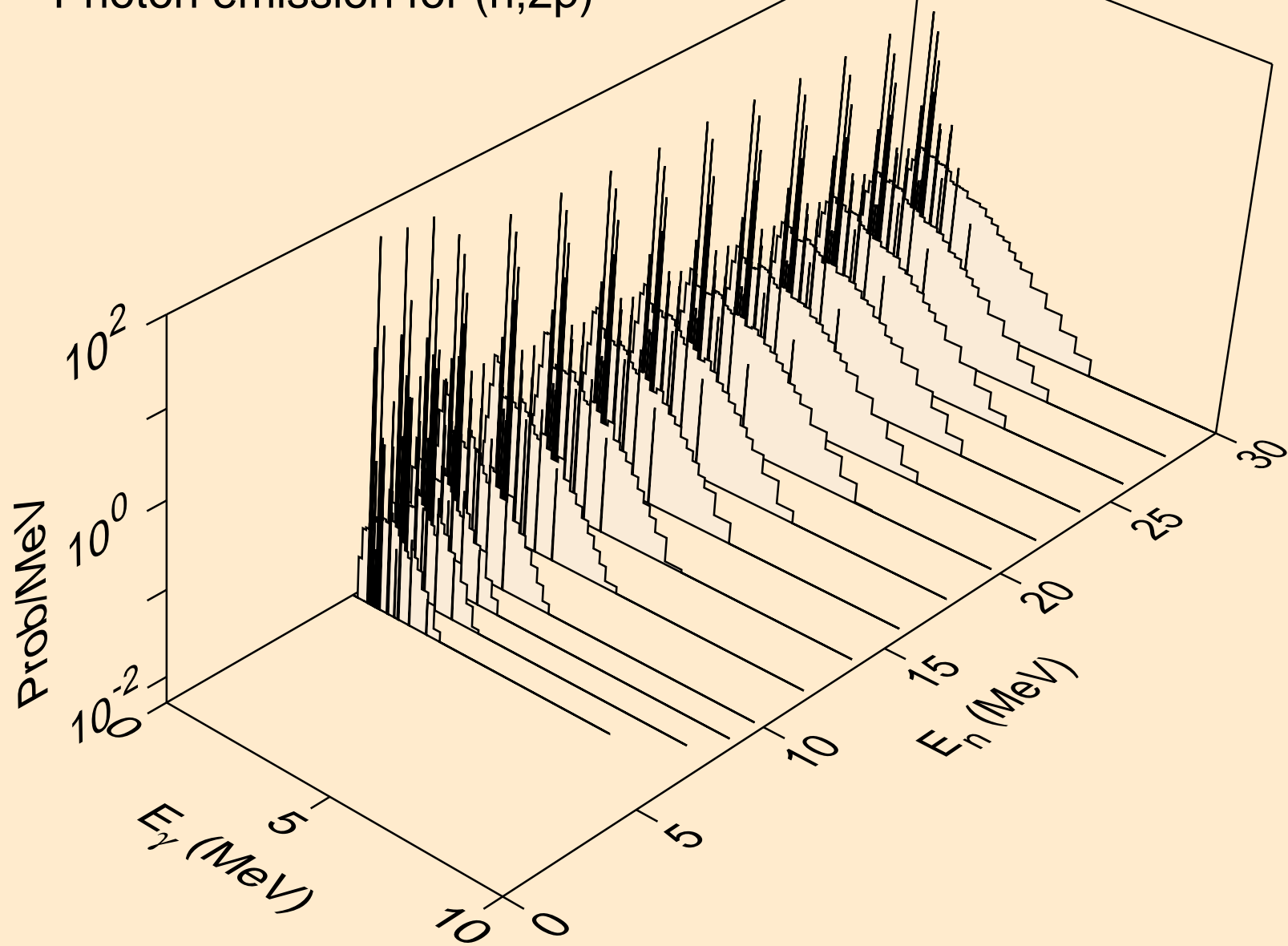
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Photon emission for (n,a)



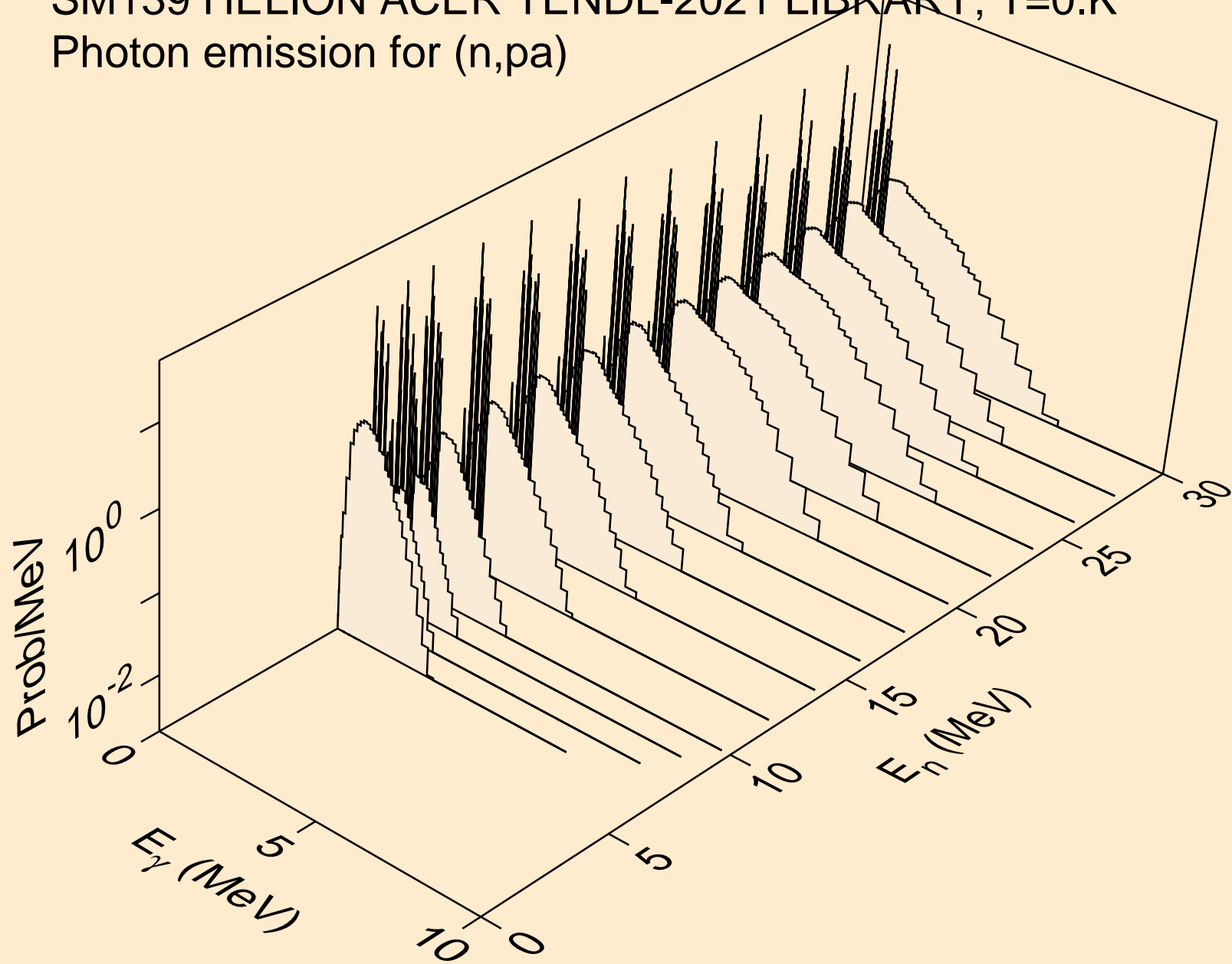
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2a)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)

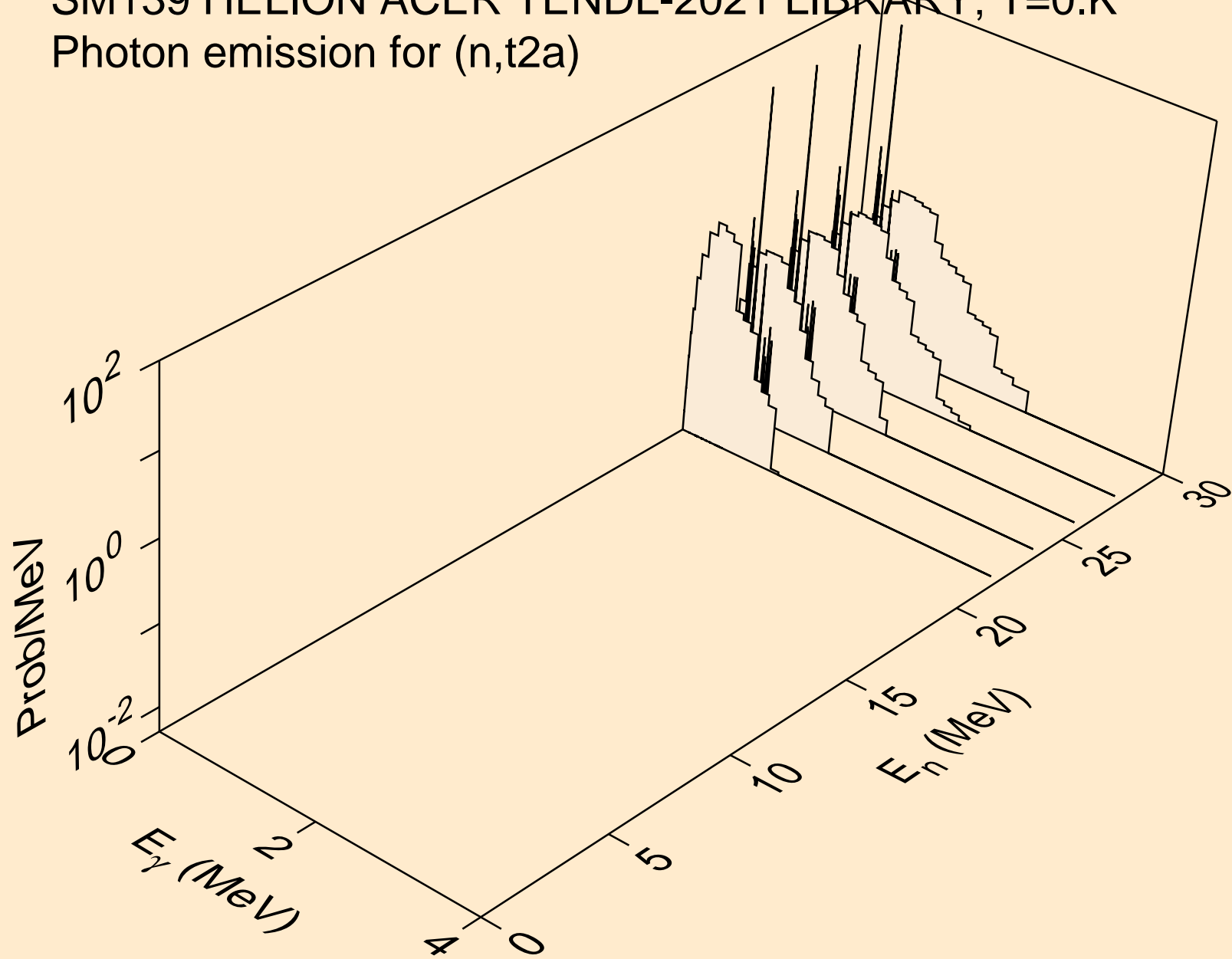


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,p)

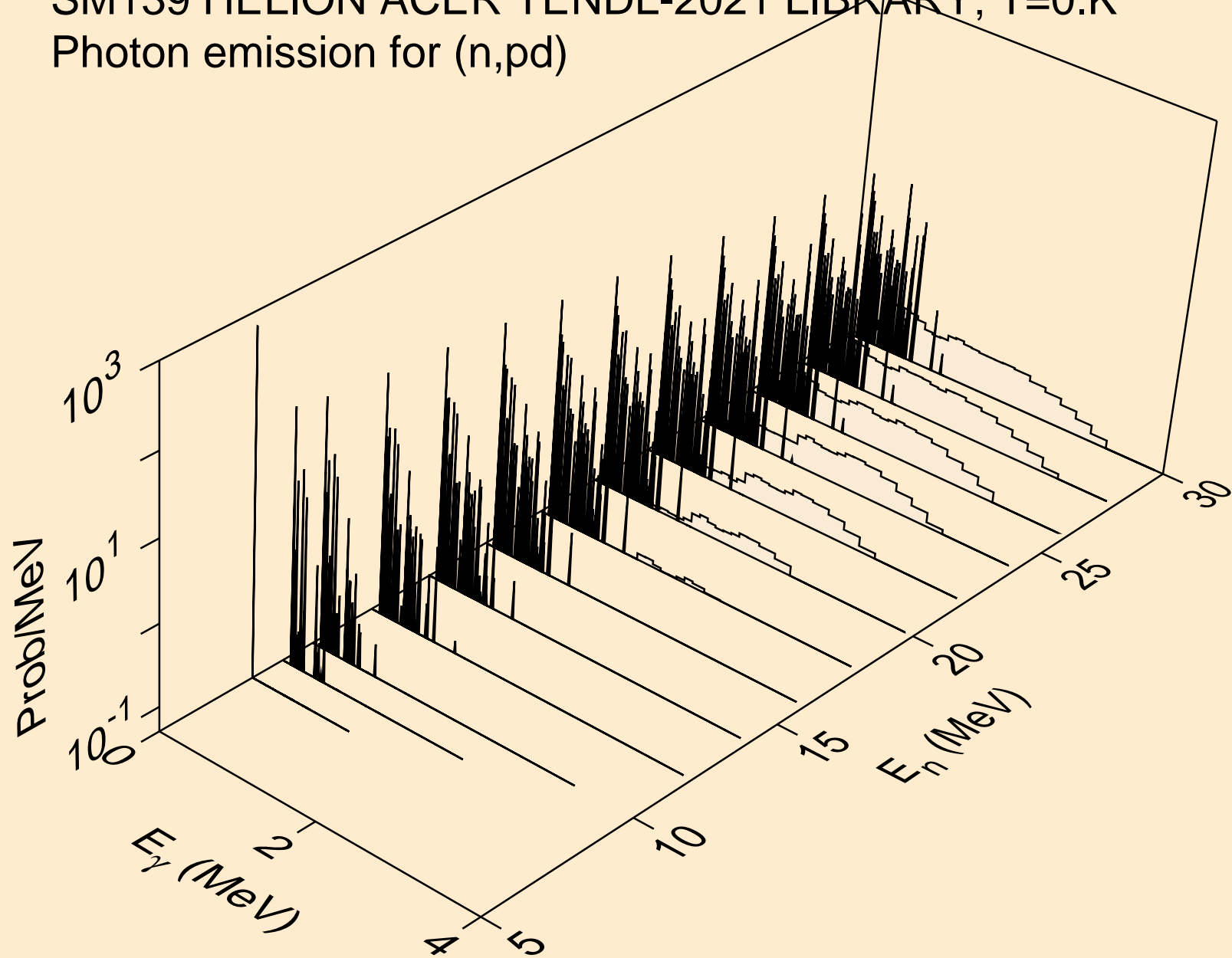




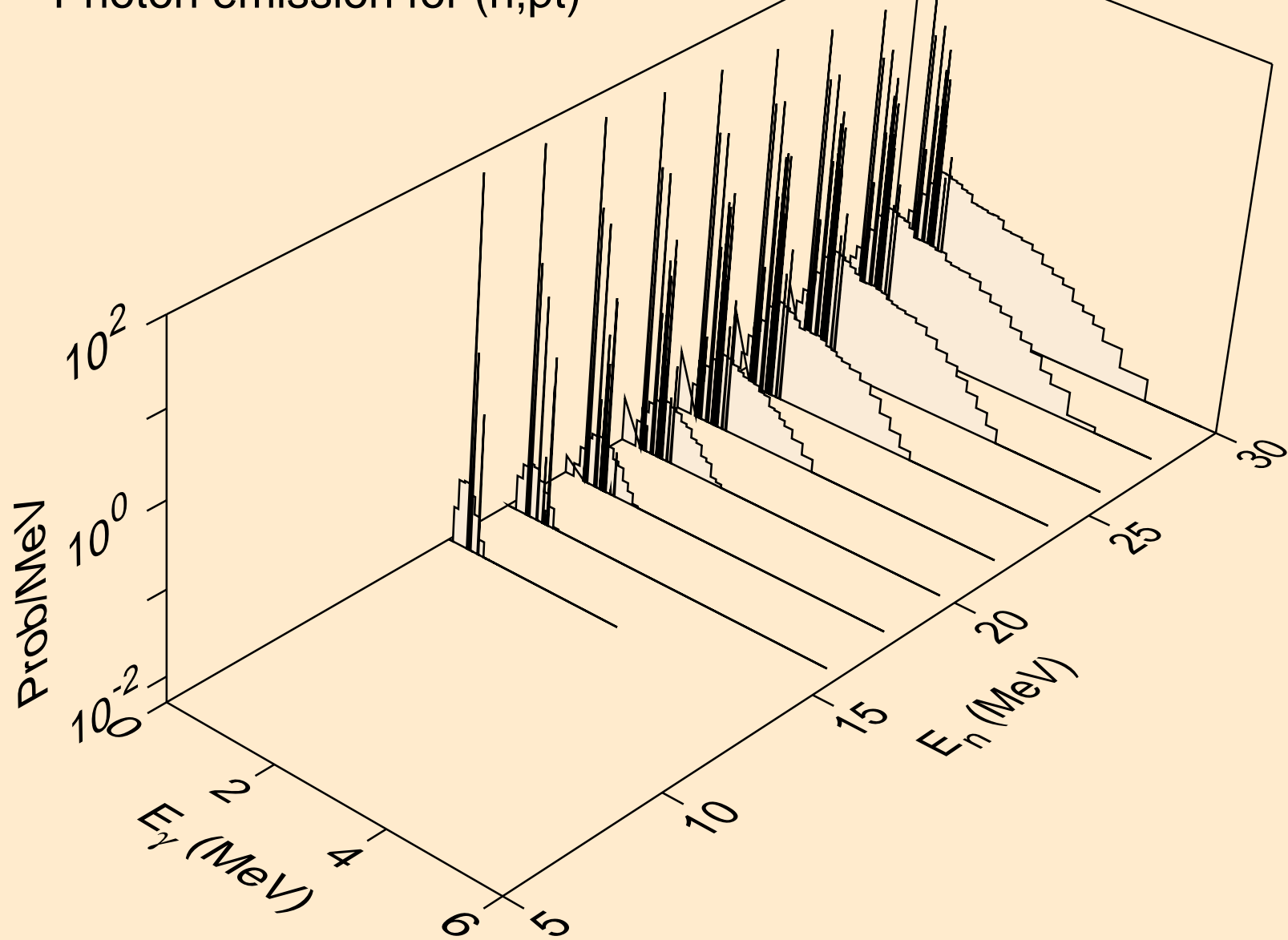
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Photon emission for (n,t2a)



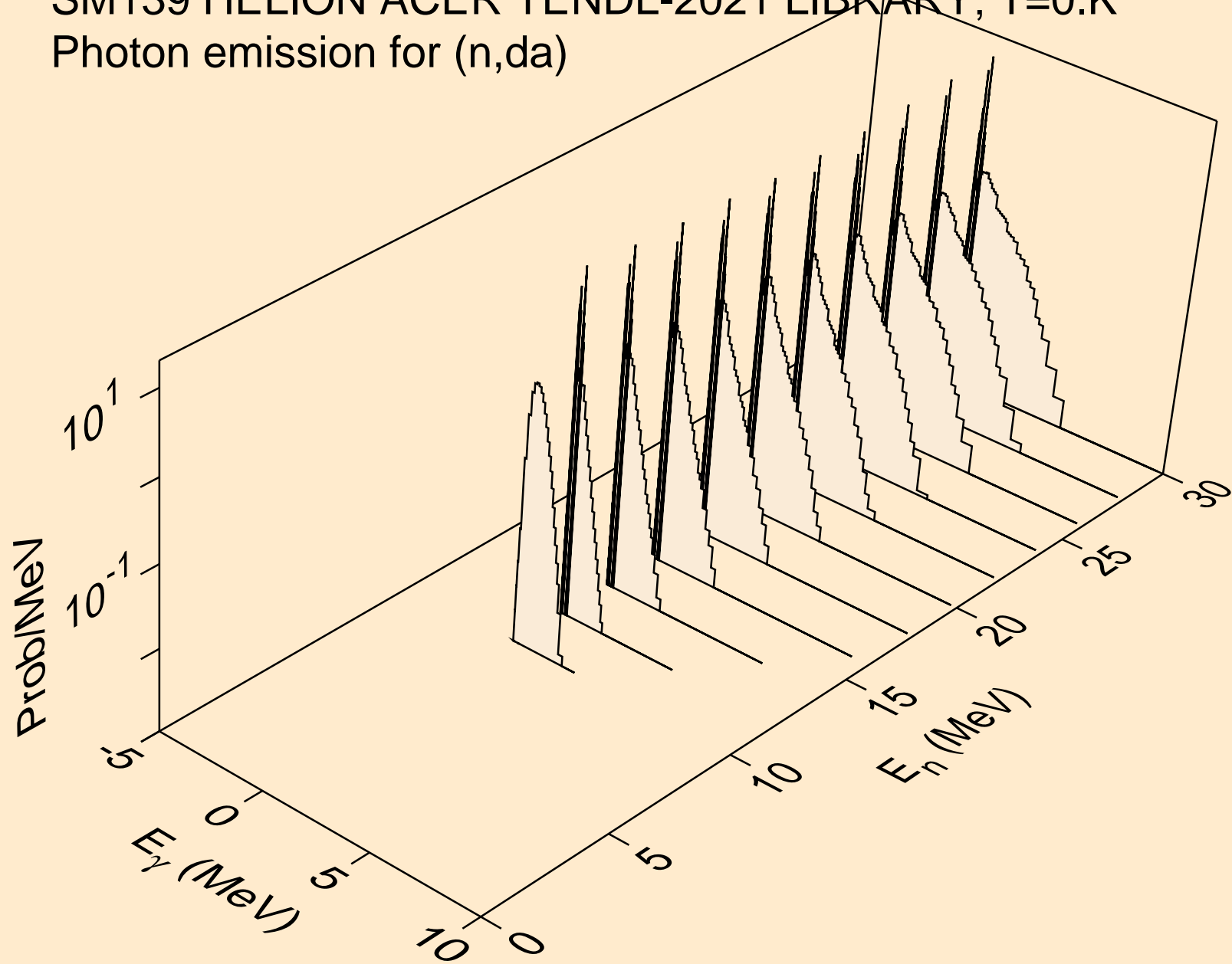
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Photon emission for (n,pd)



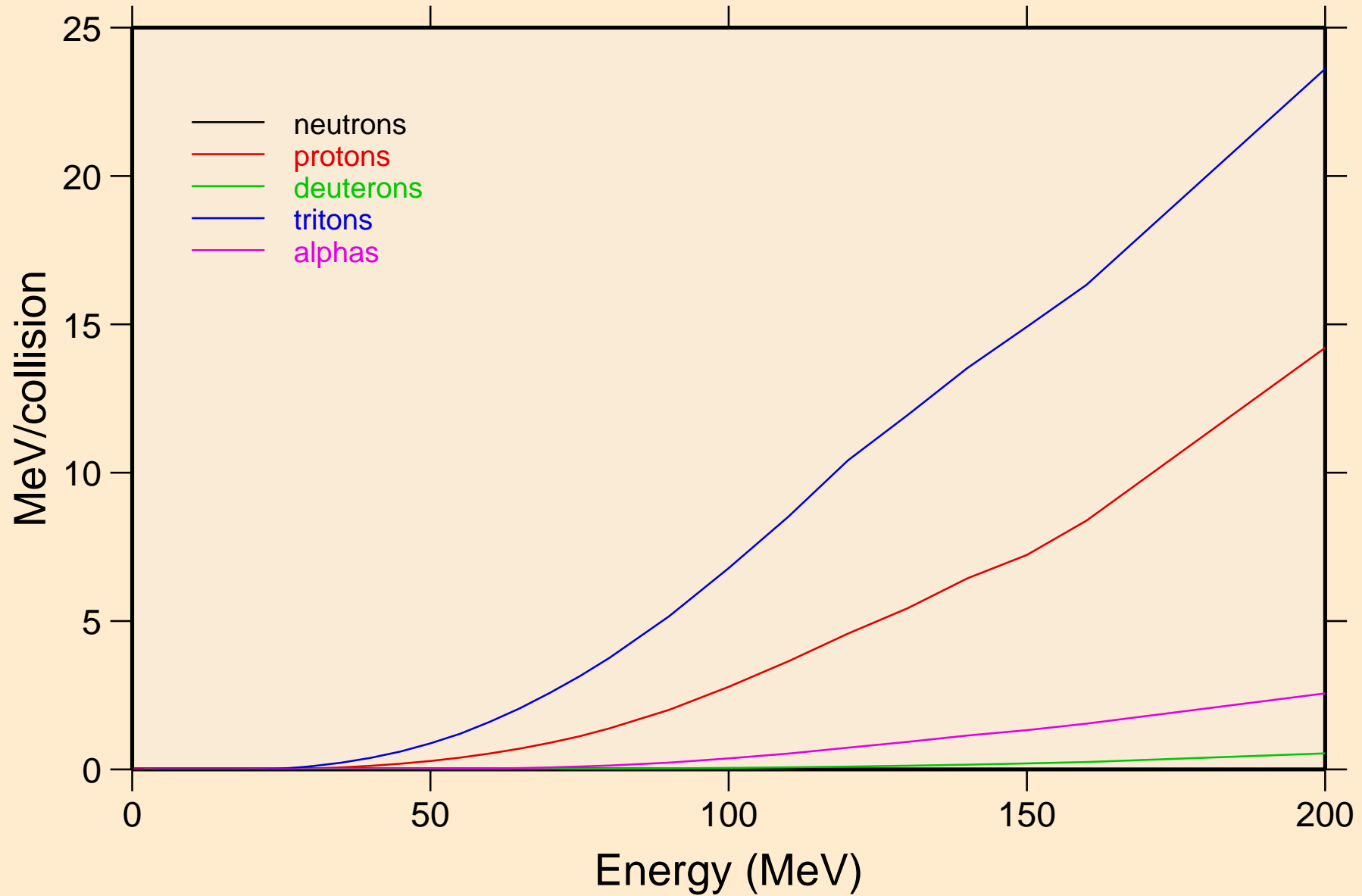
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Photon emission for (n,pt)



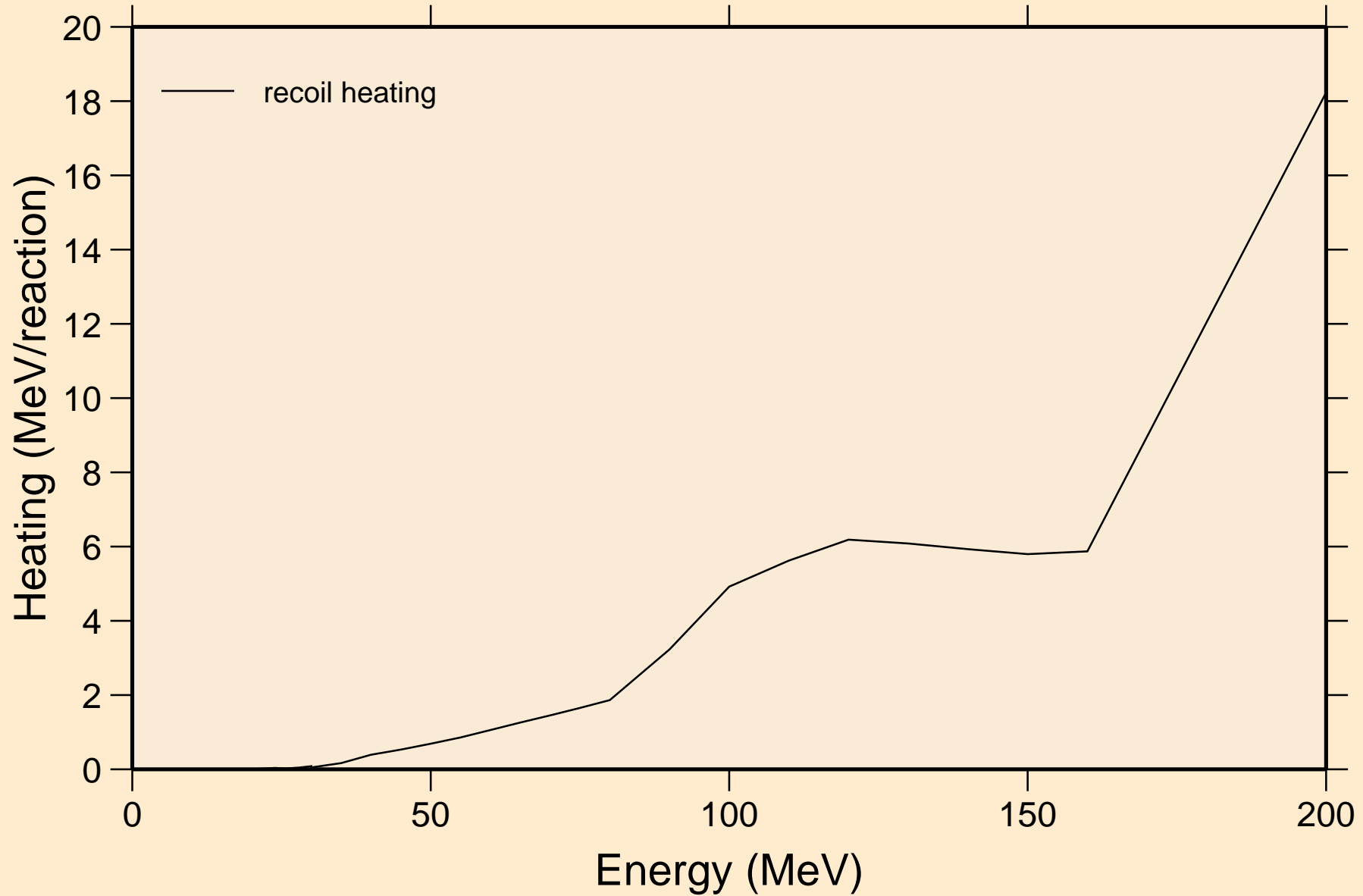
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Photon emission for (n,da)



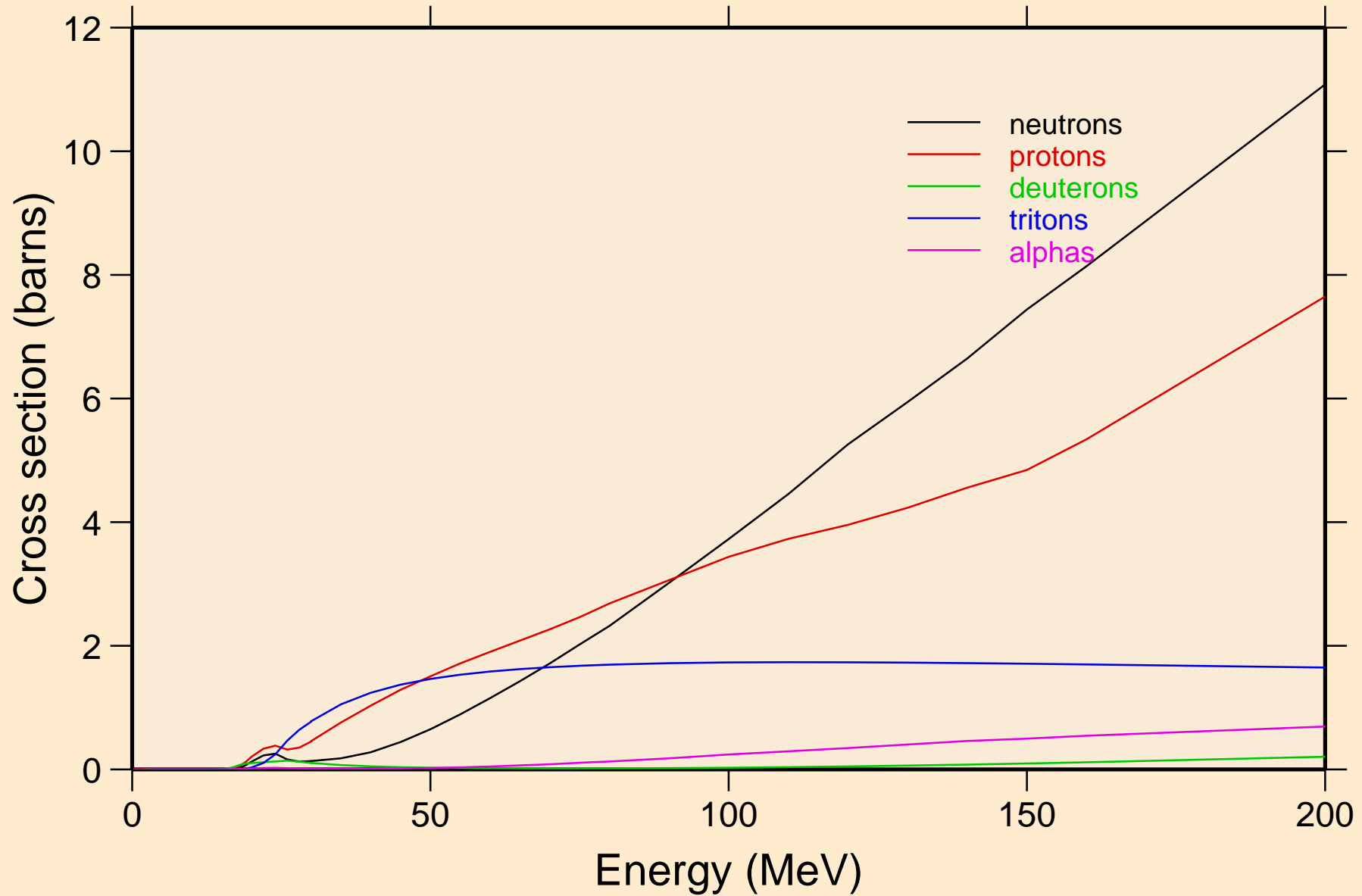
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Particle heating contributions



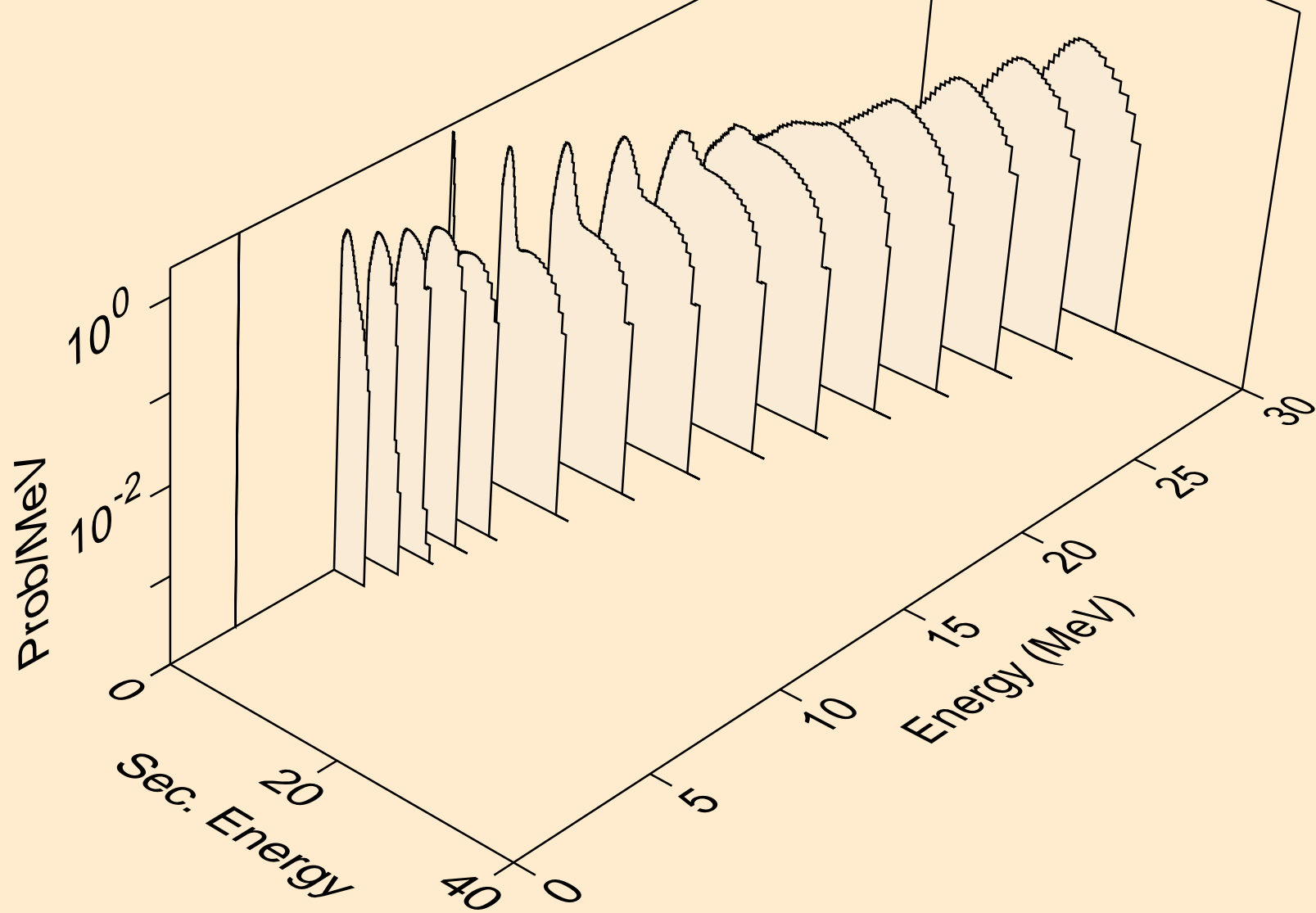
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Recoil Heating



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections

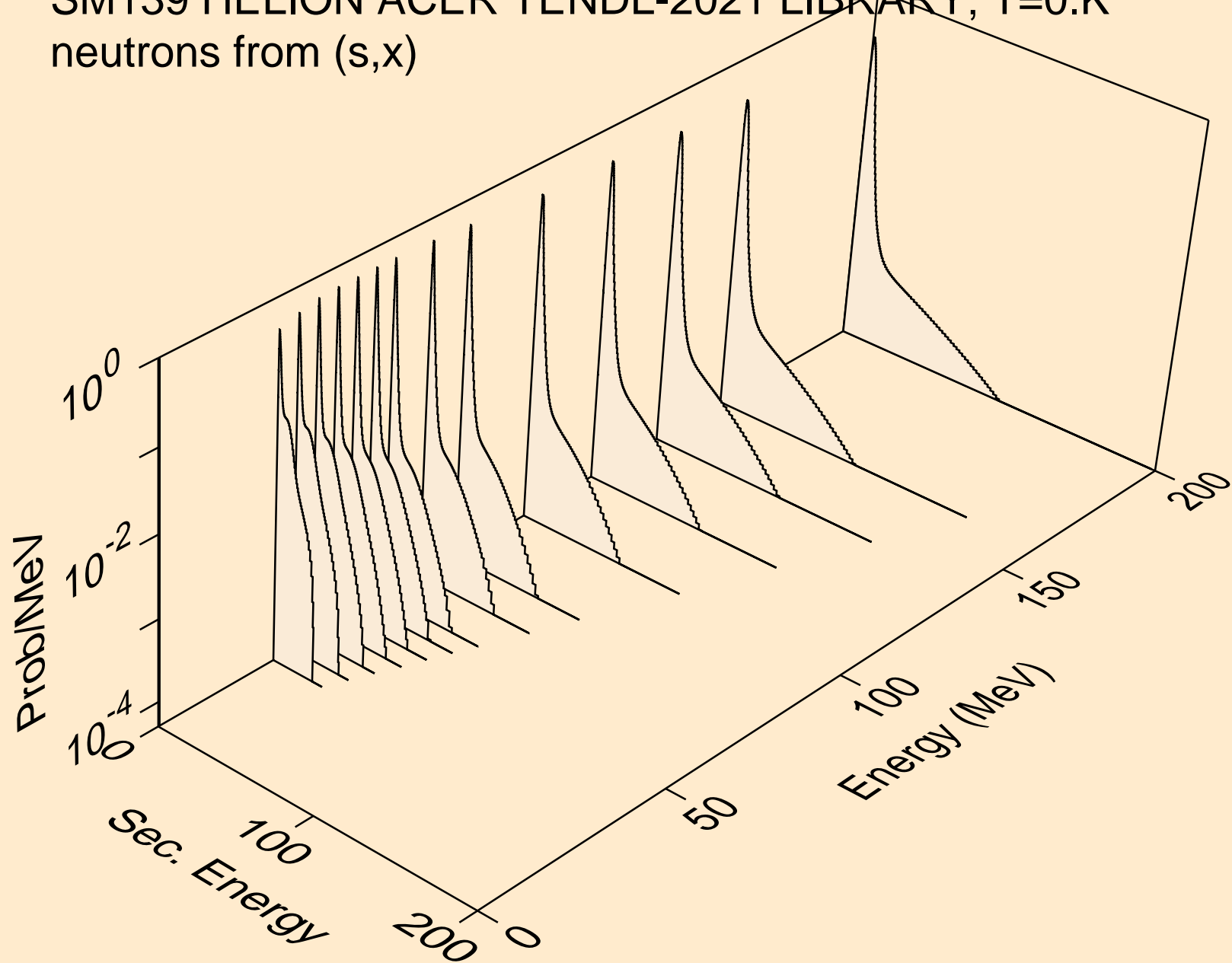


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n)

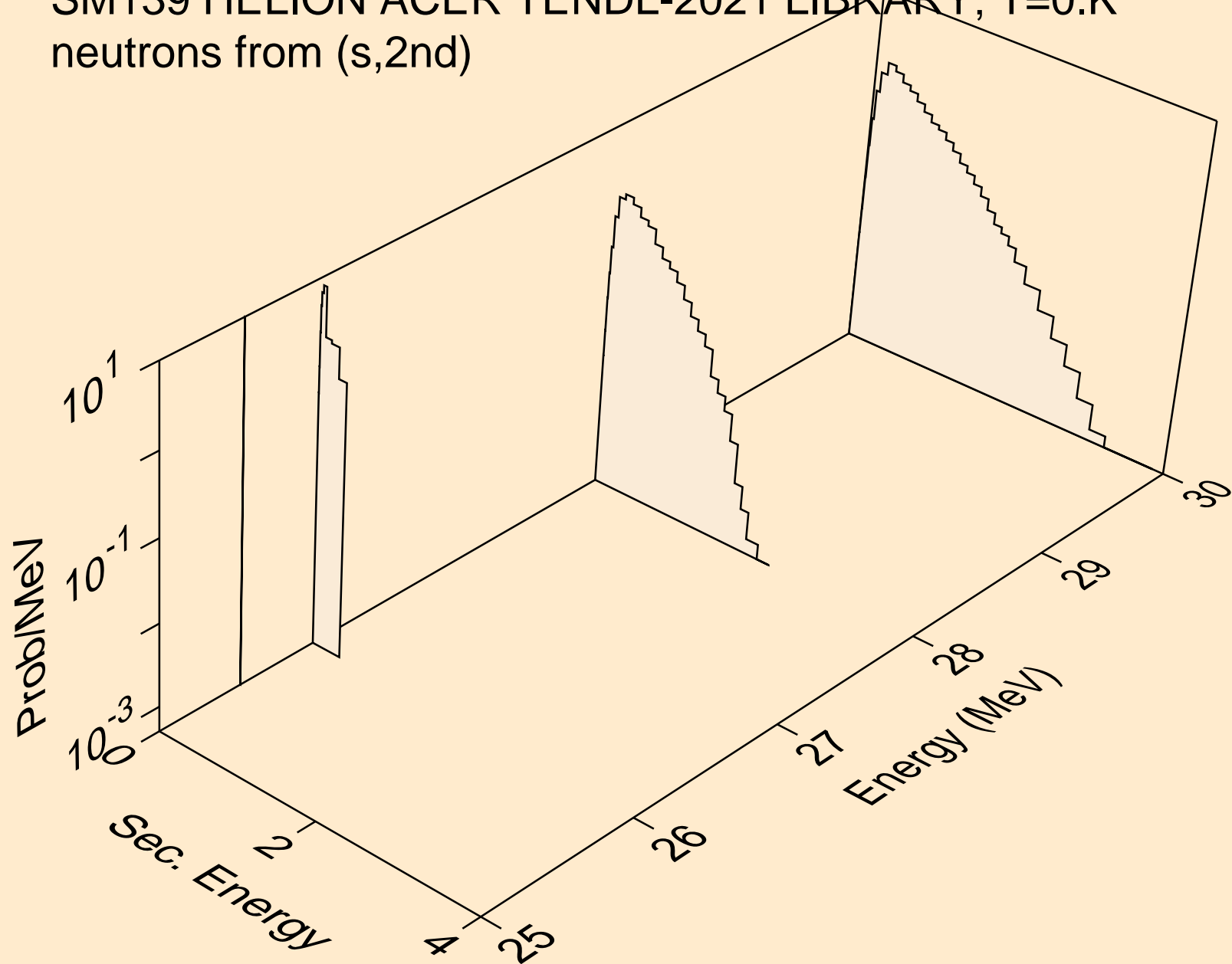




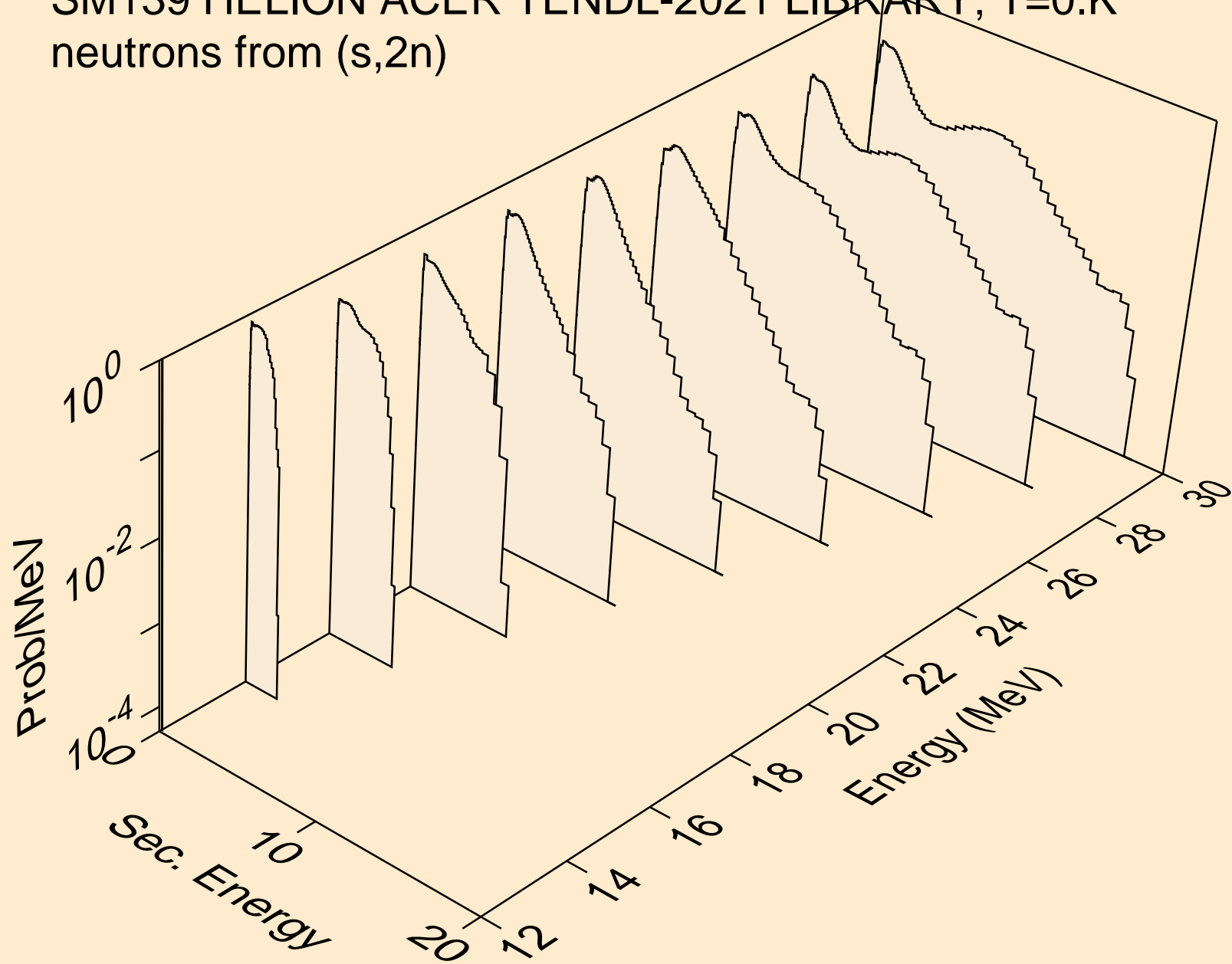
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,x)



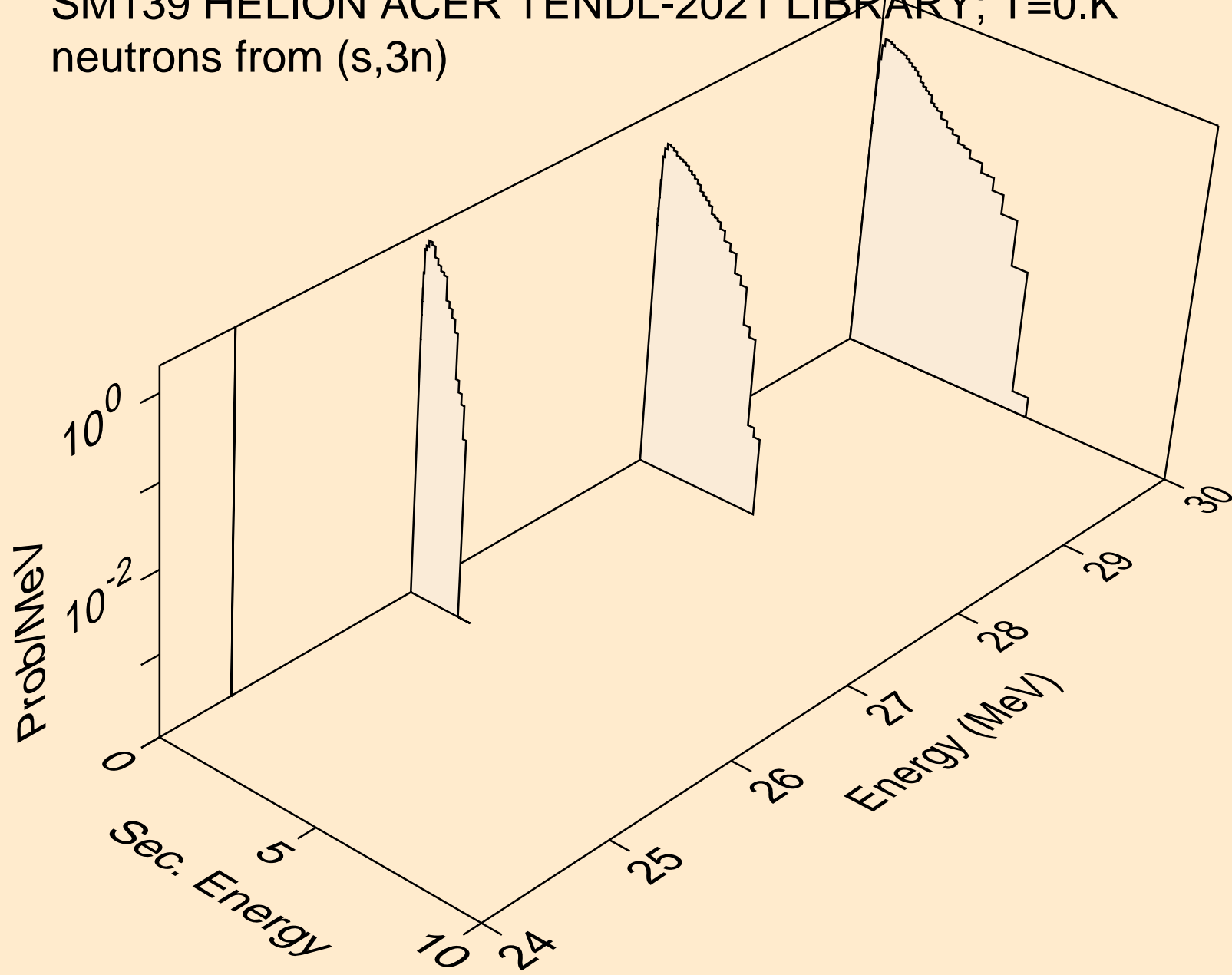
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,2nd)



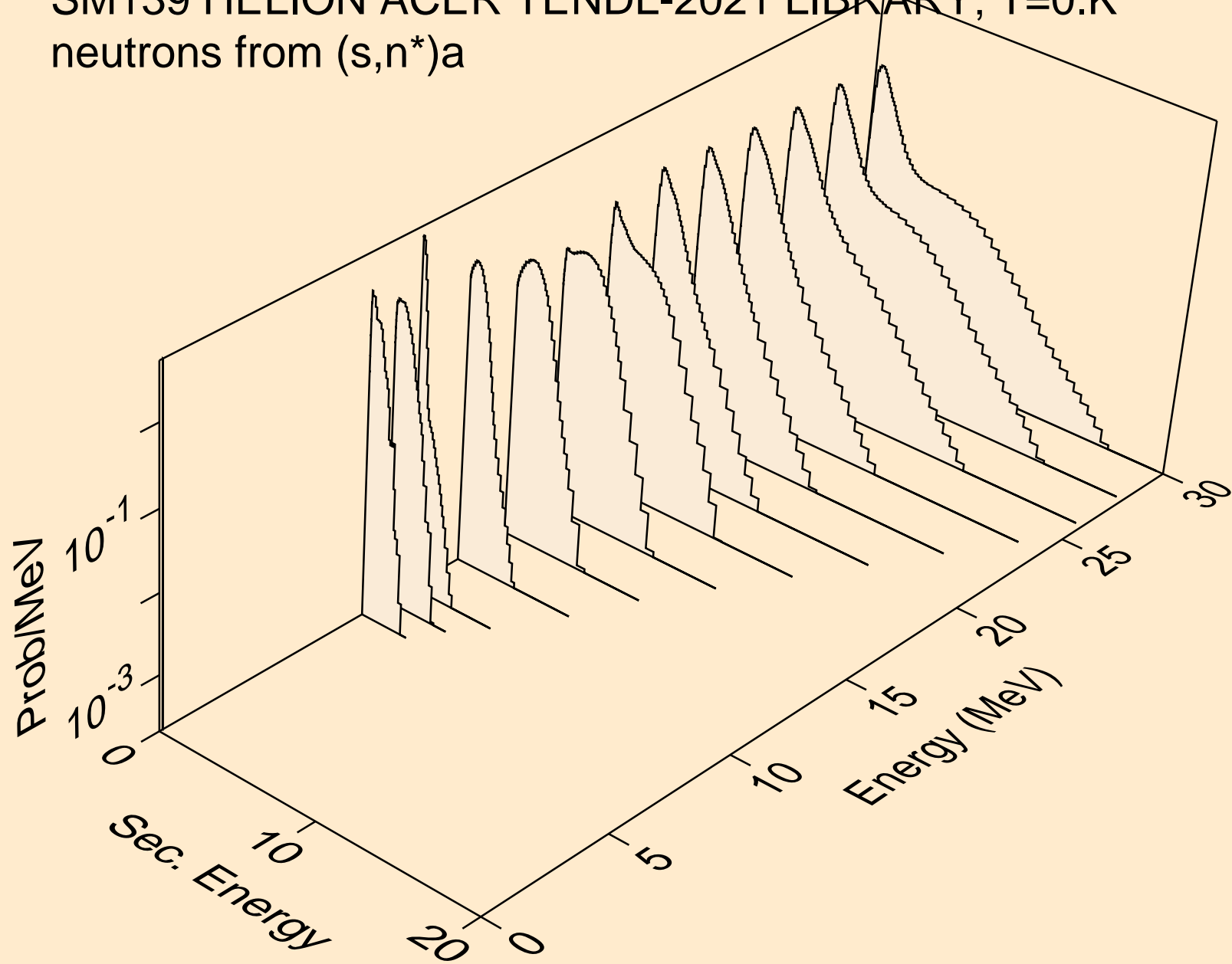
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,2n)



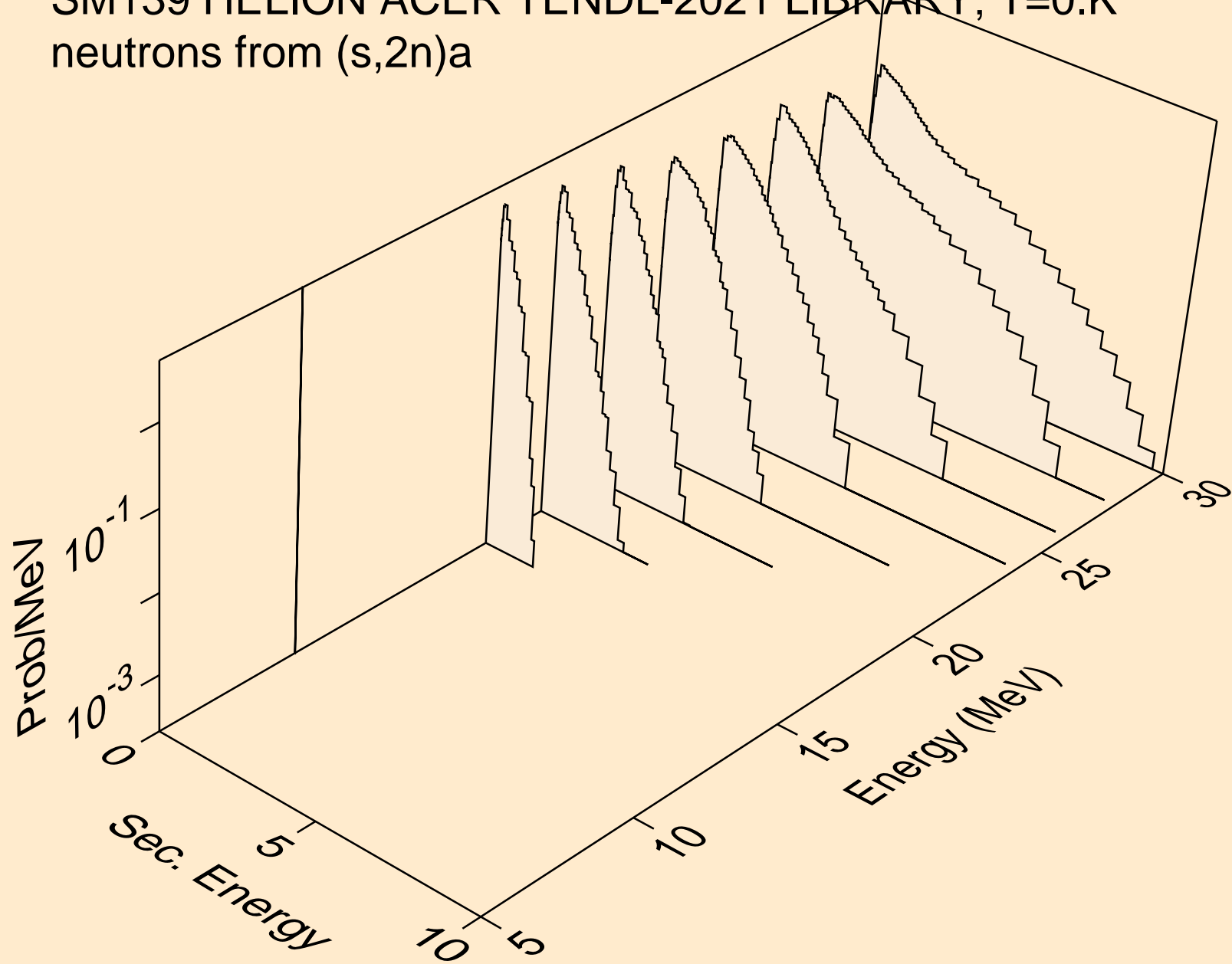
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,3n)



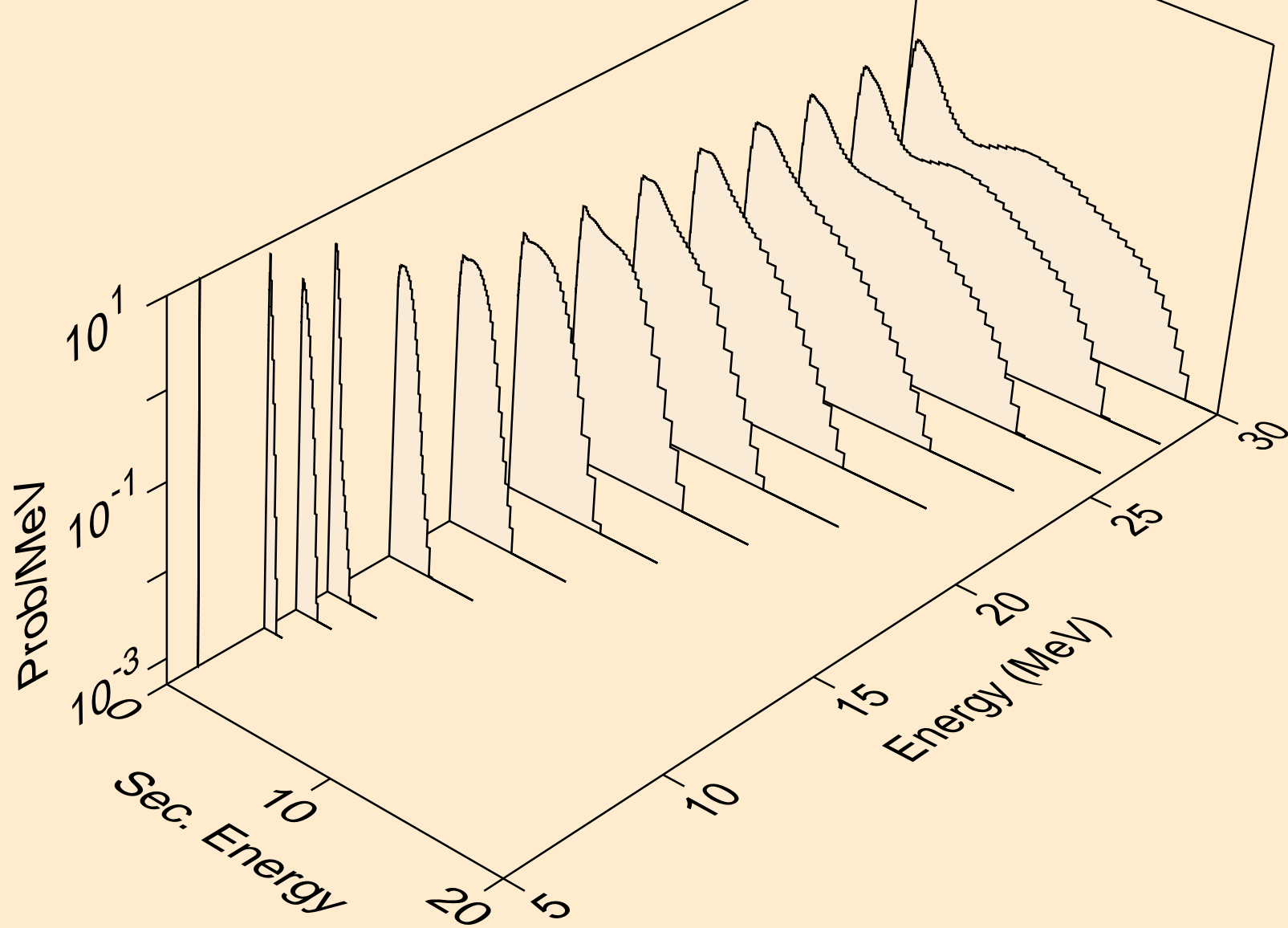
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)a



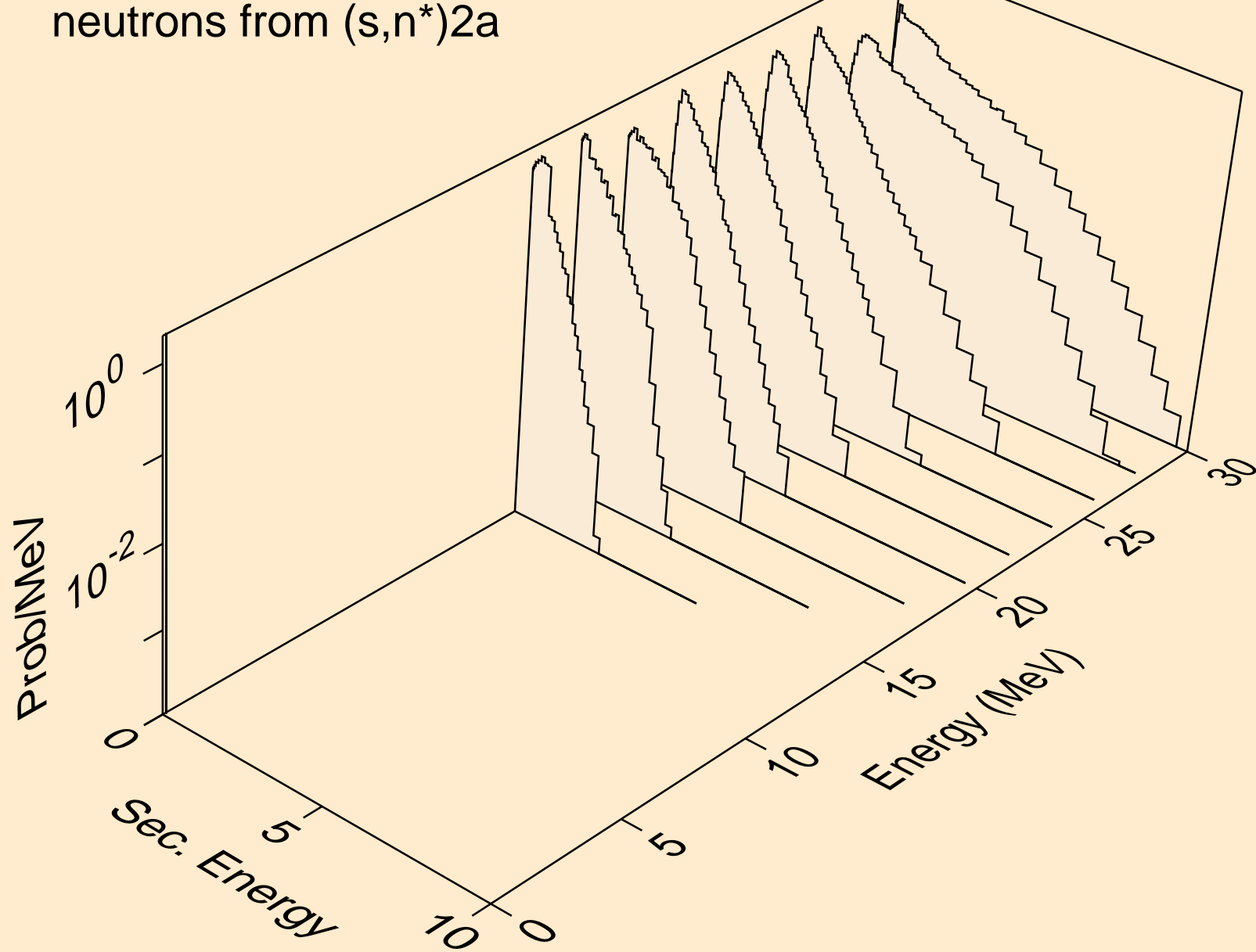
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,2n)a



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)p

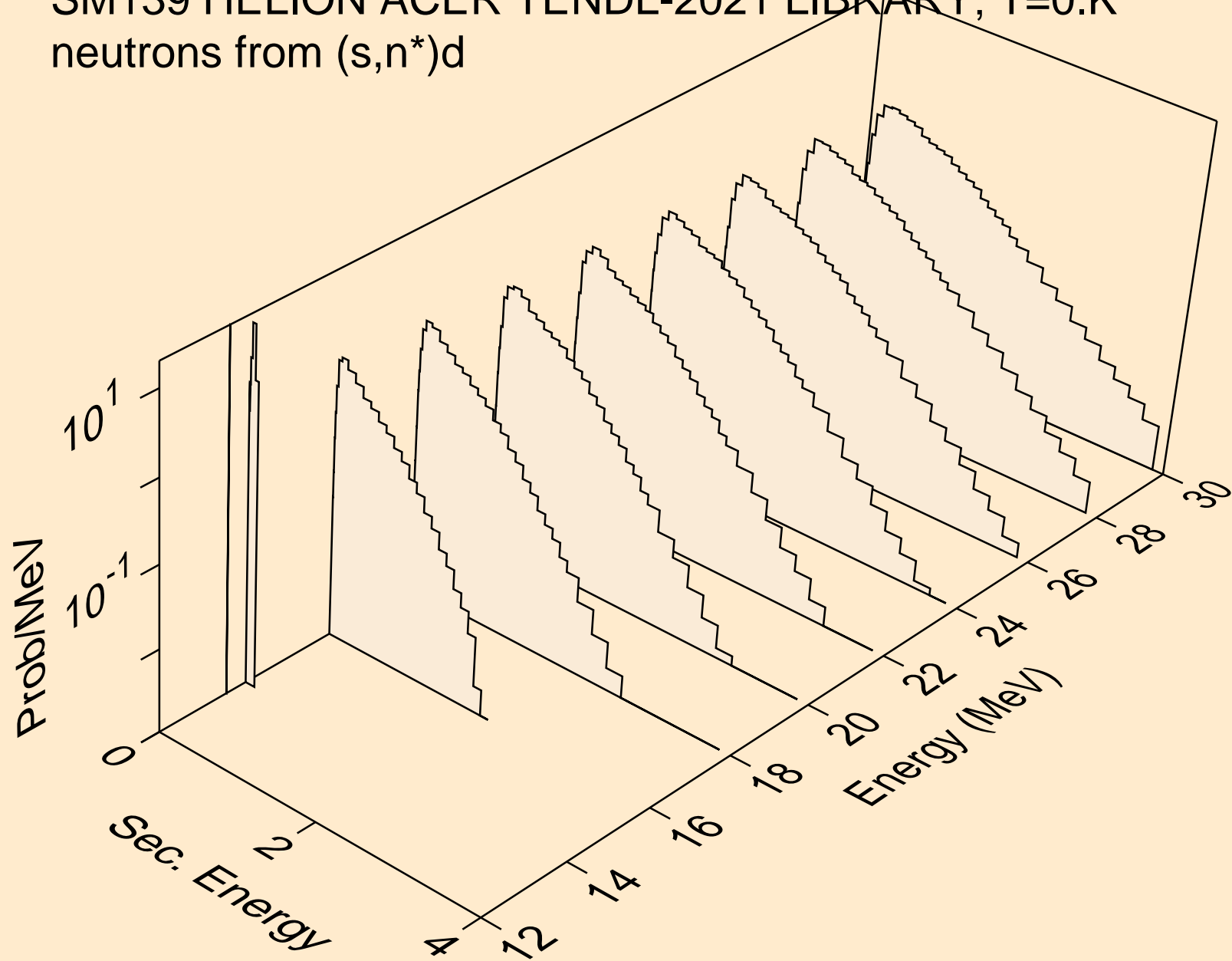


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)2a

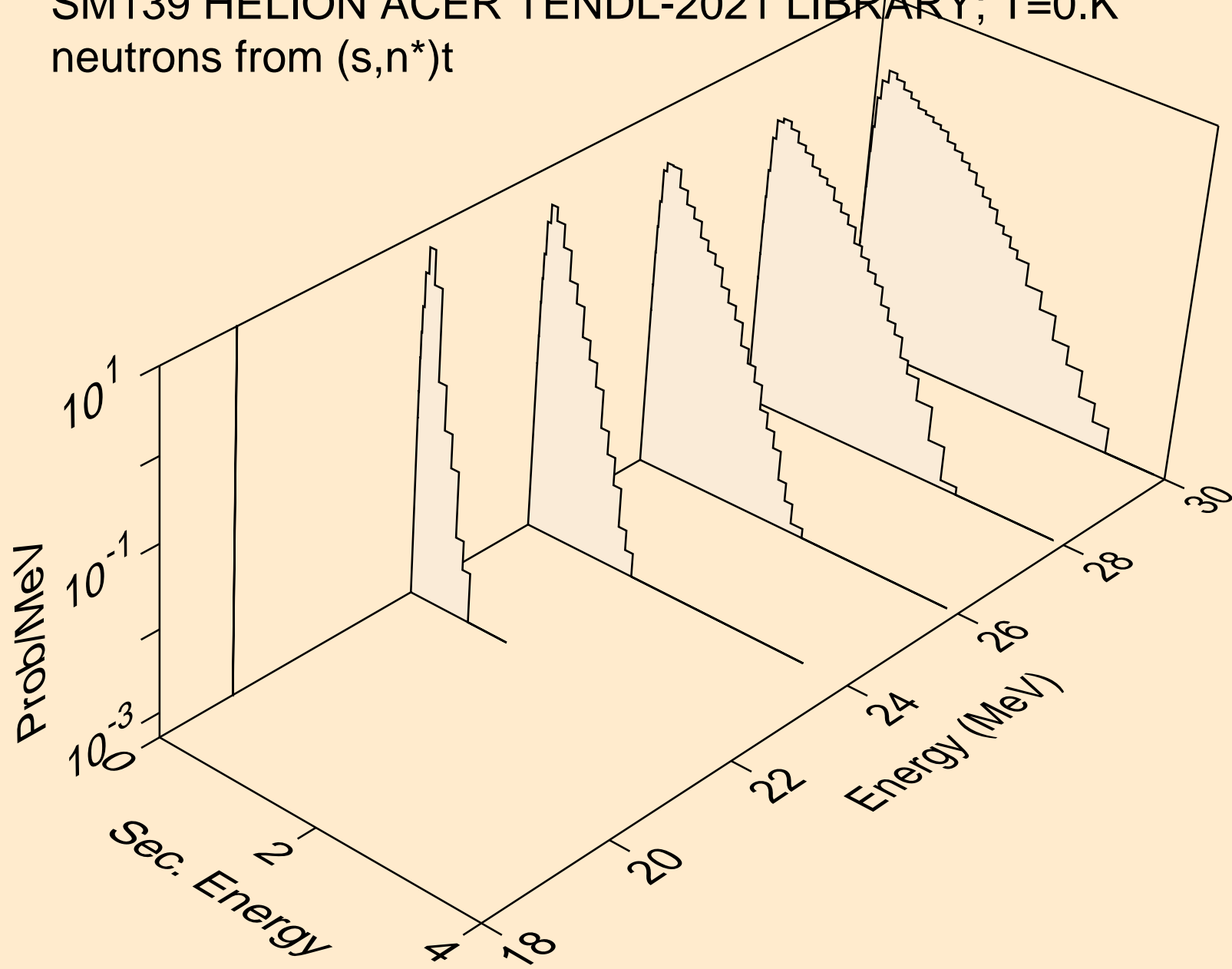




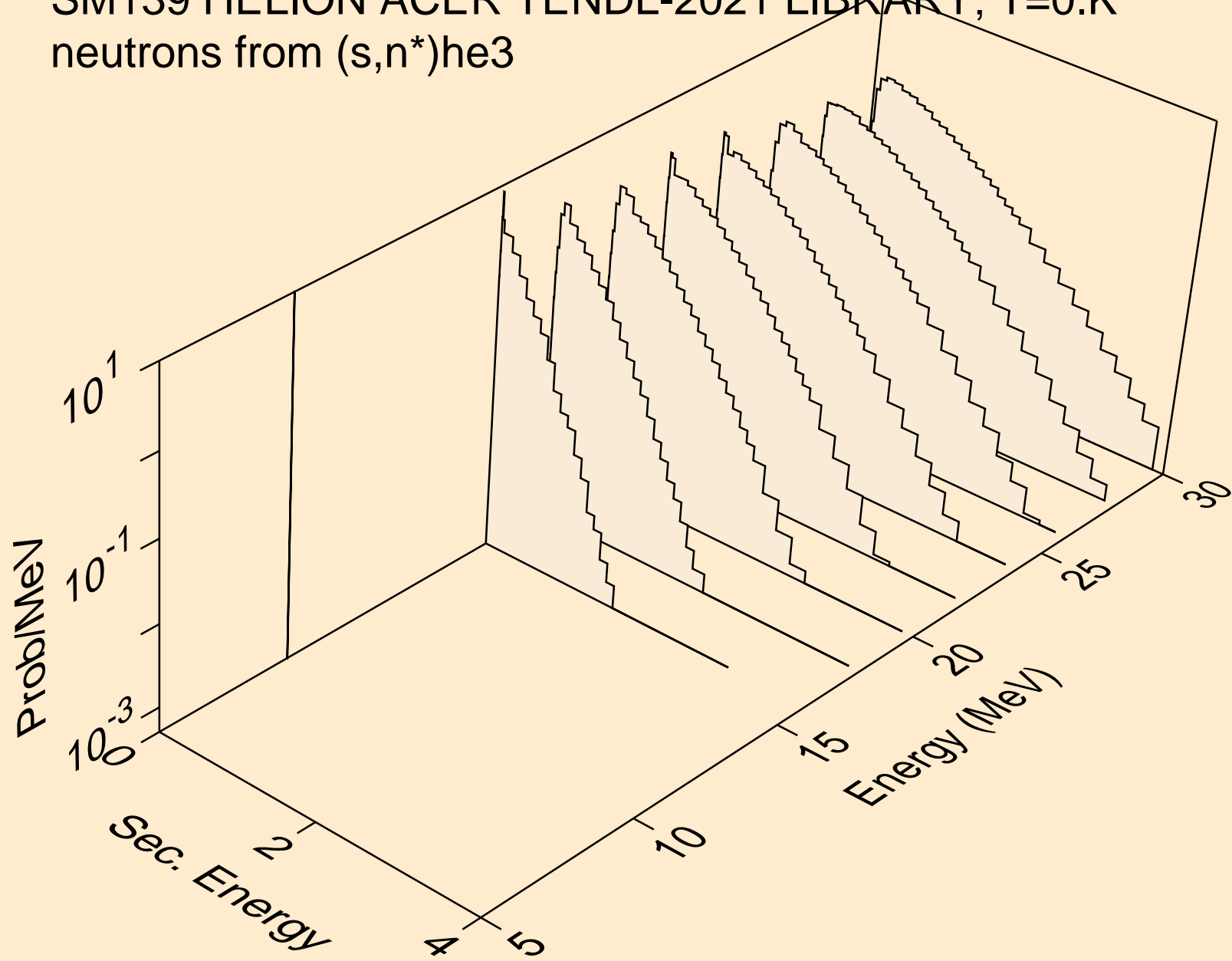
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)d



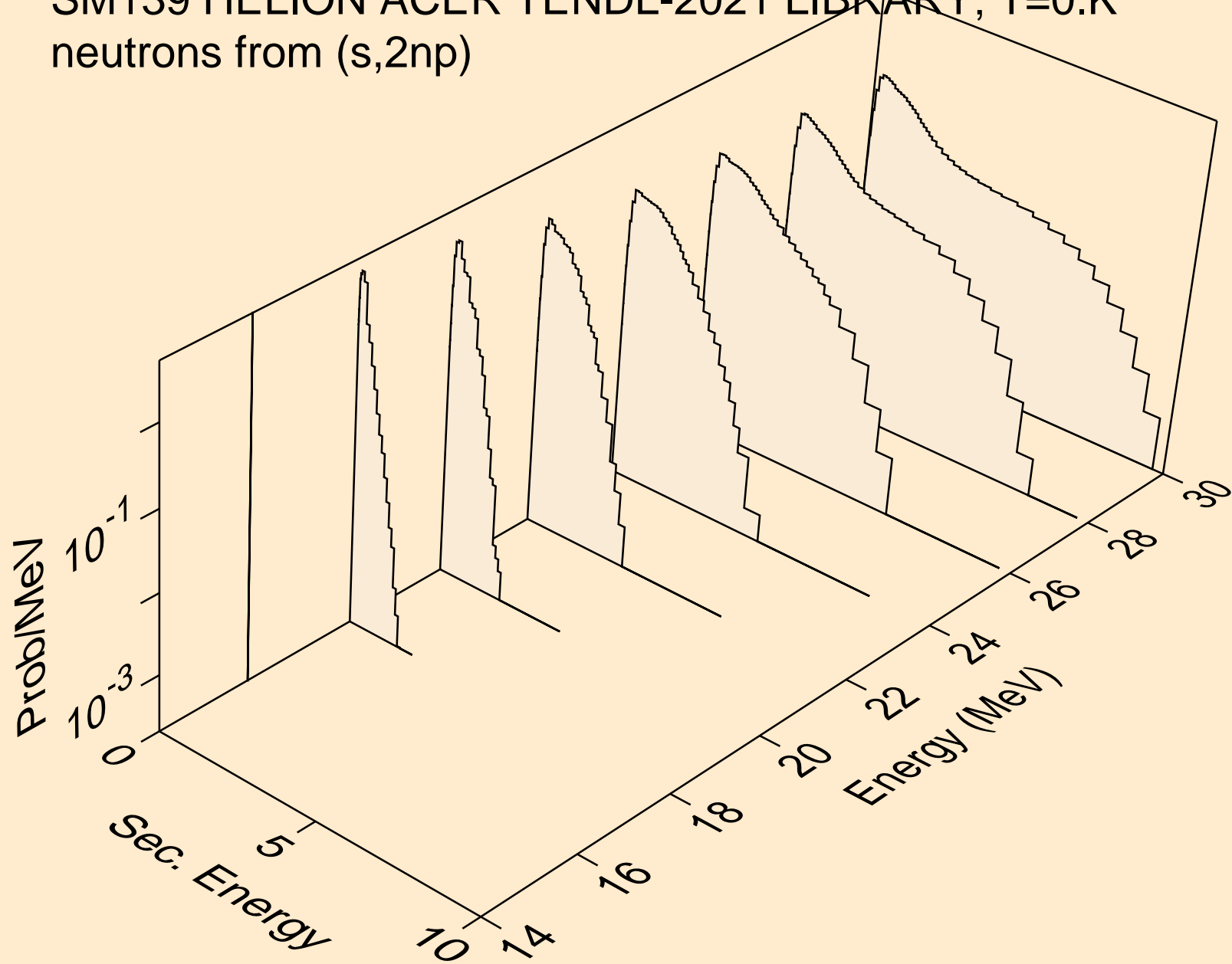
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)t



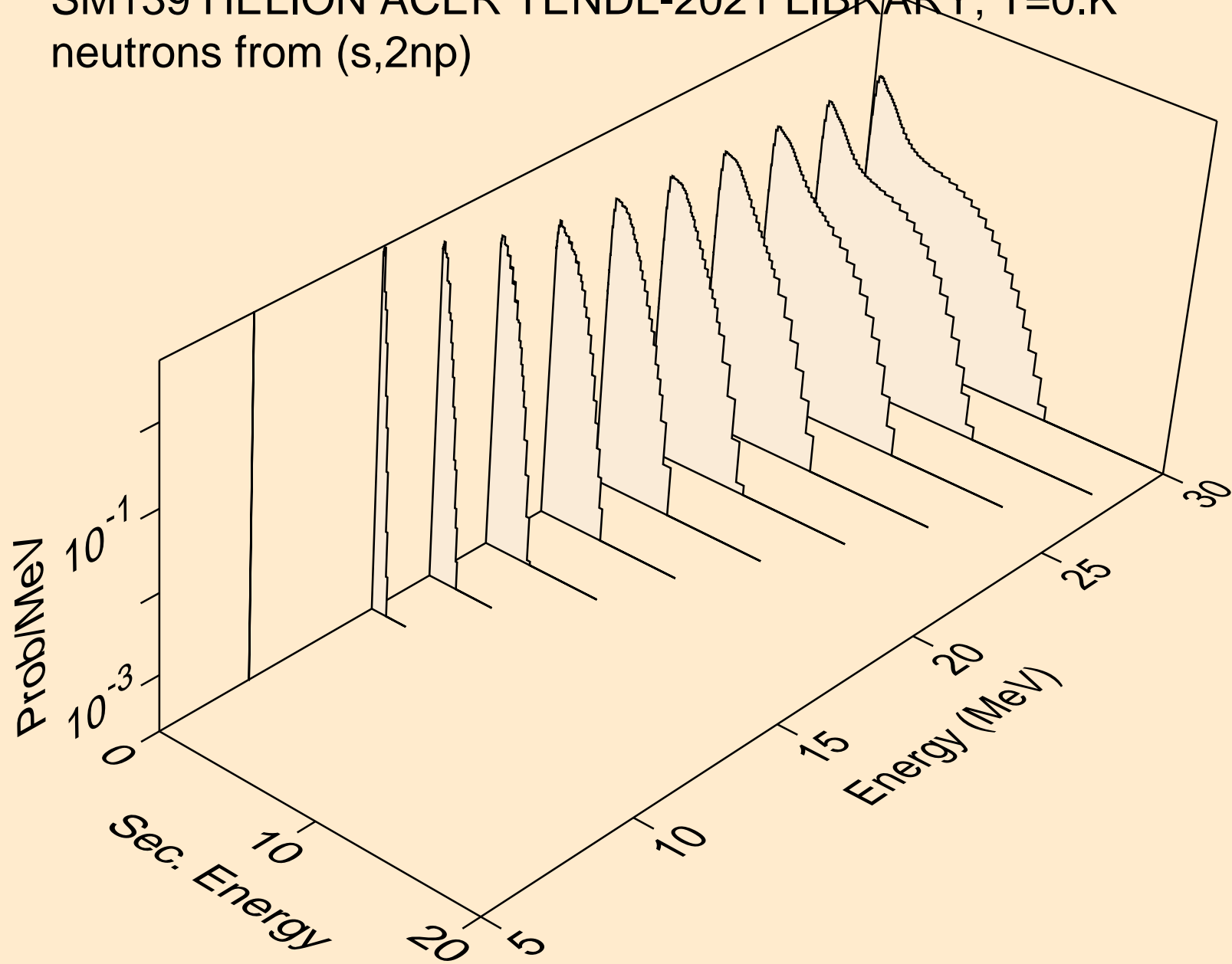
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



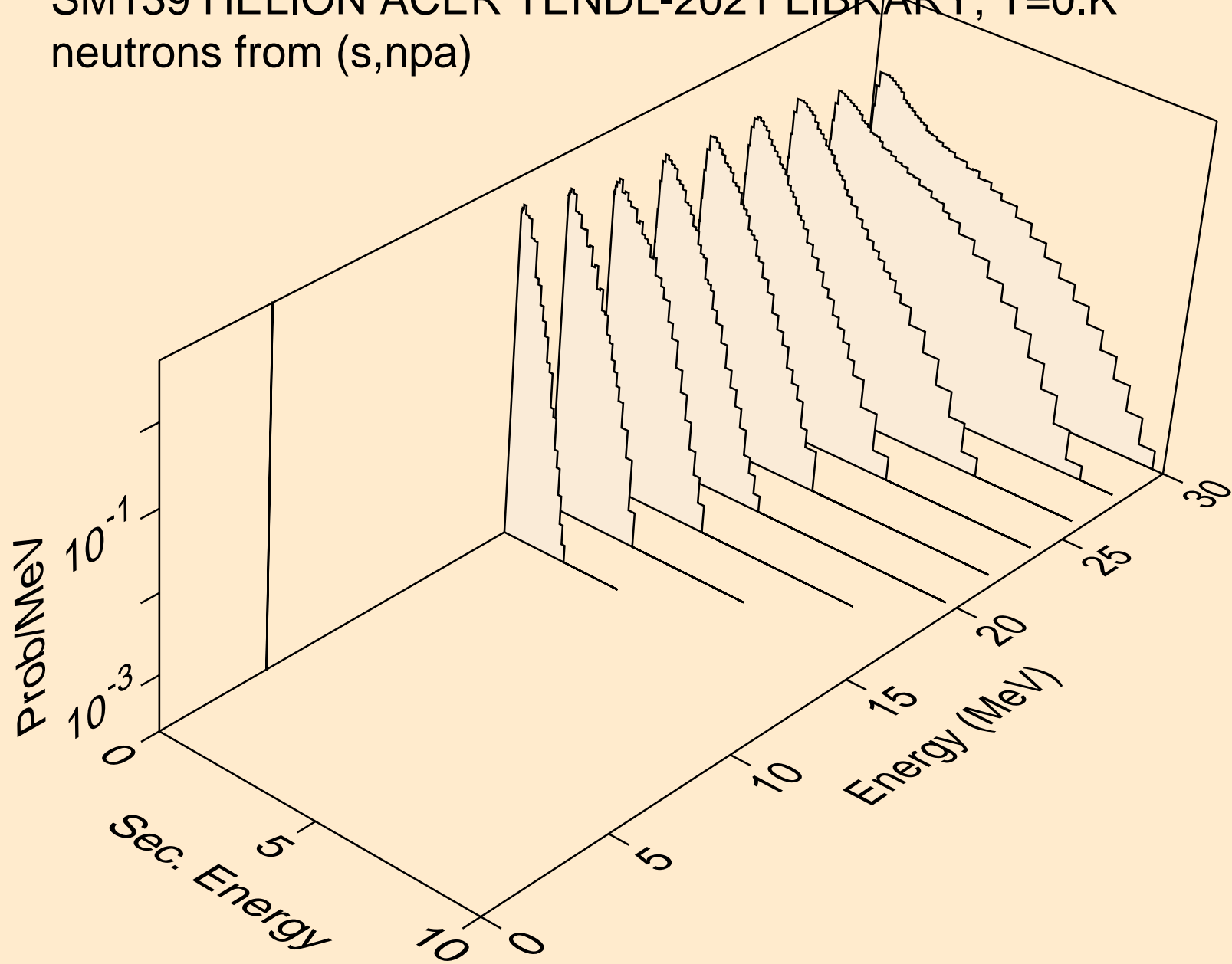
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neutrons from (s,2np)



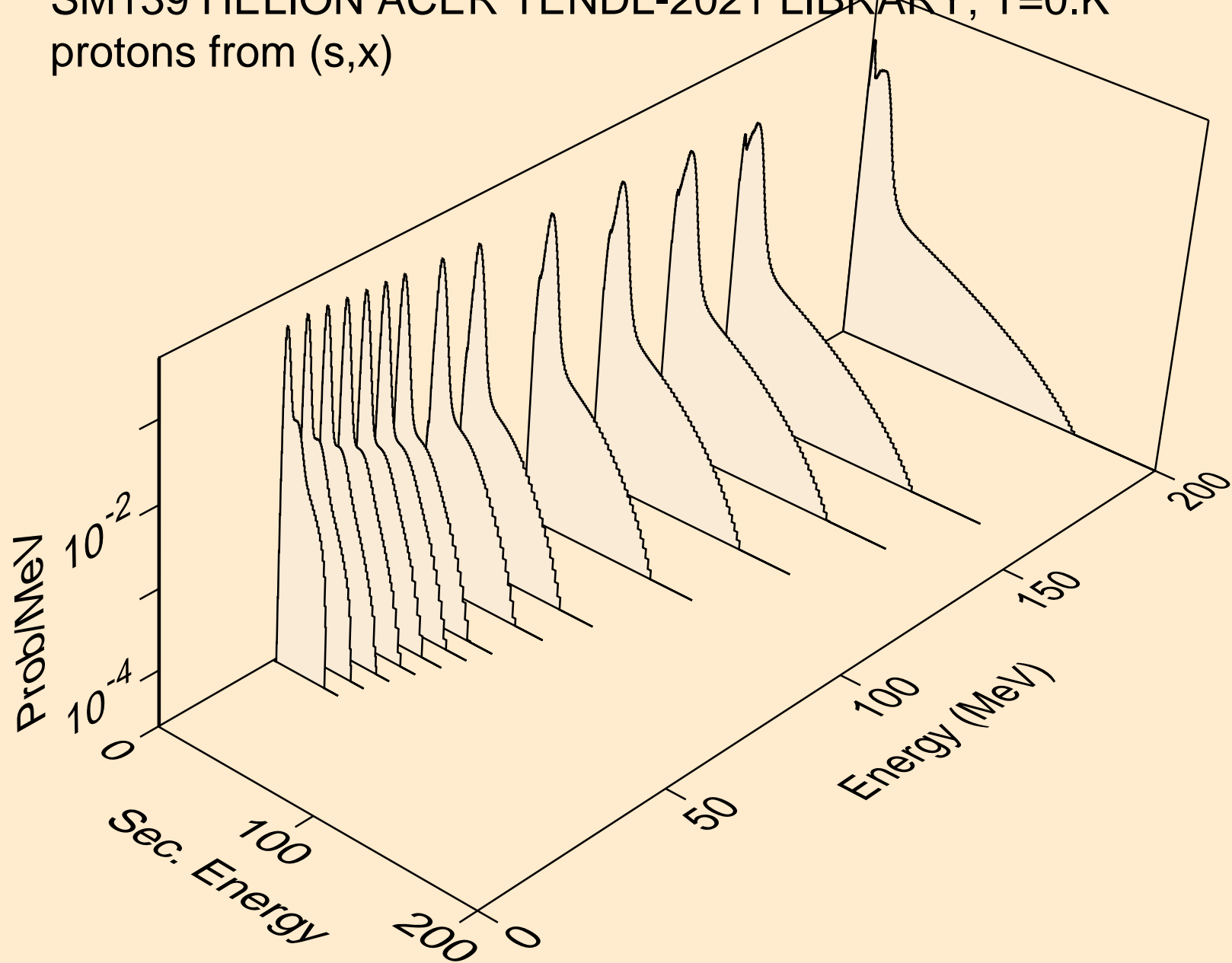
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neutrons from (s,2np)



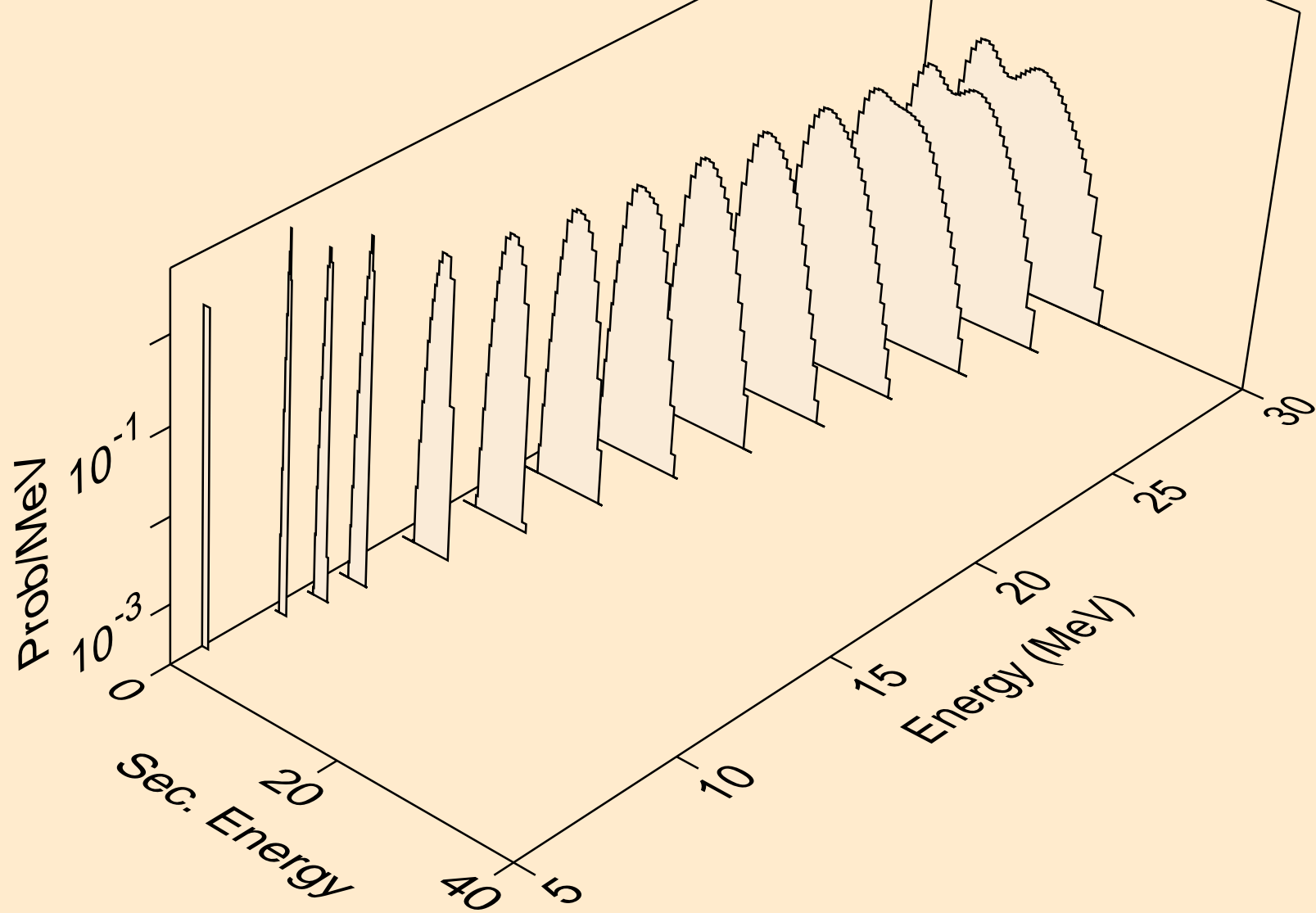
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (s,npa)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,x)

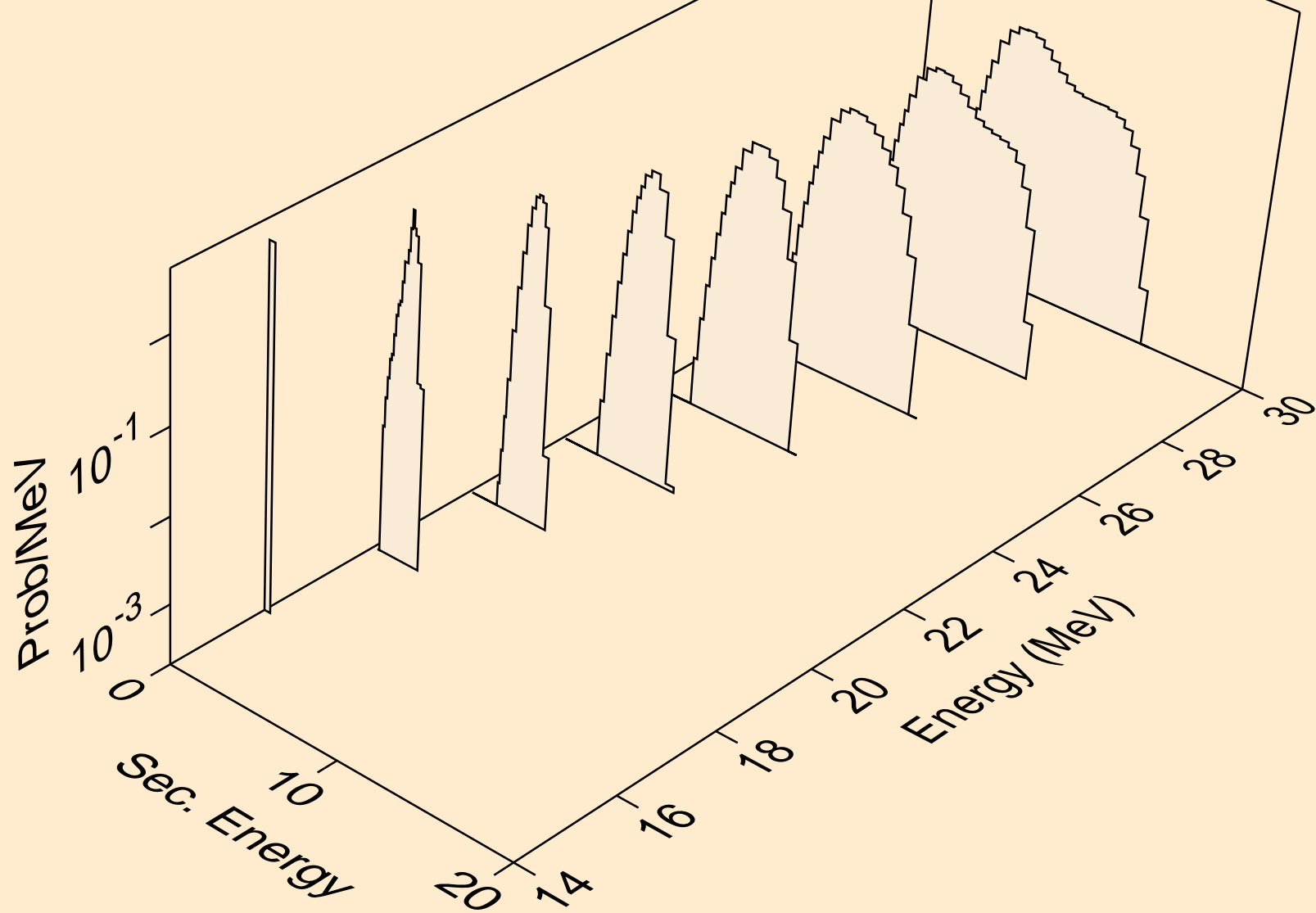


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protons from (s,n\*)p

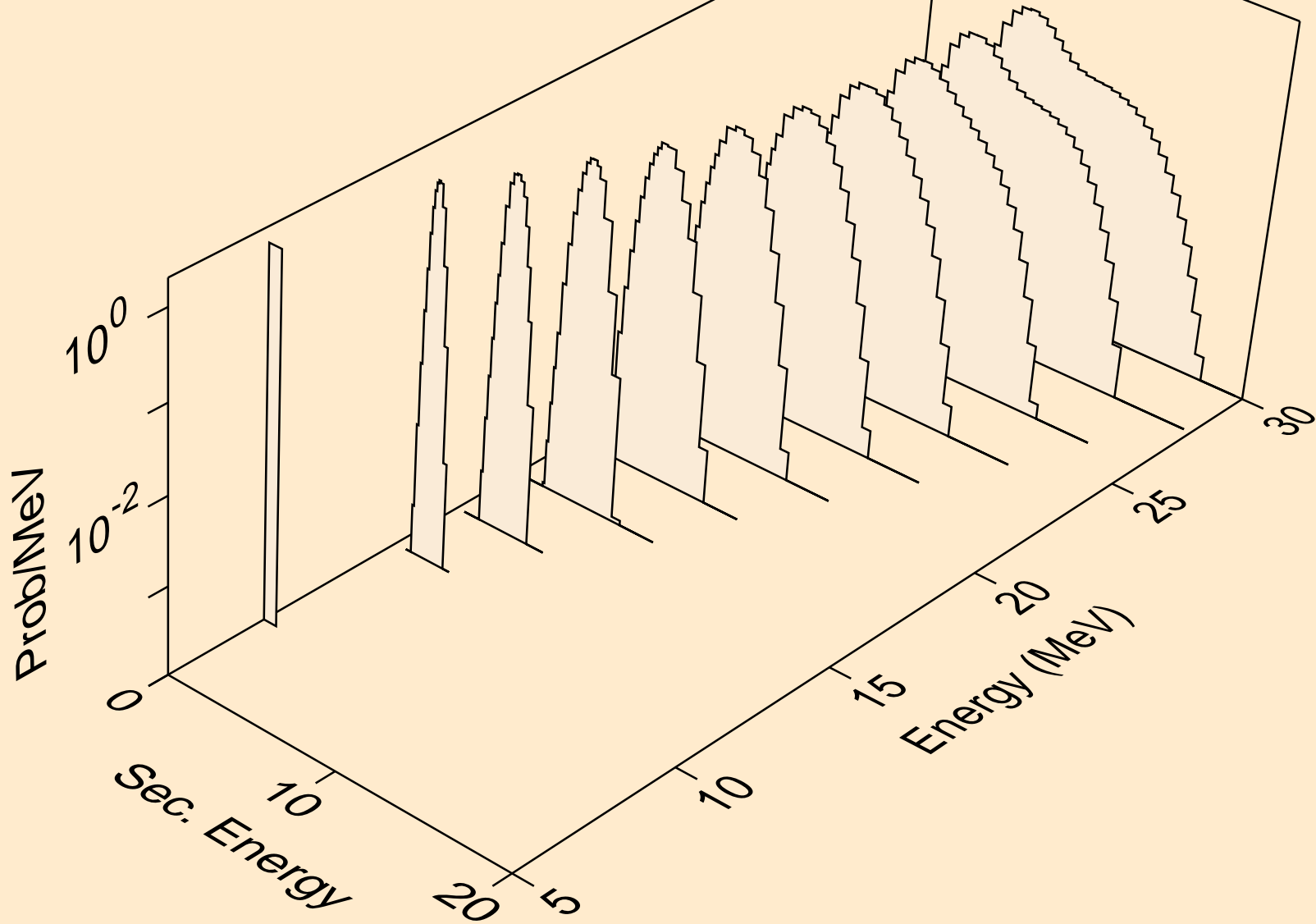




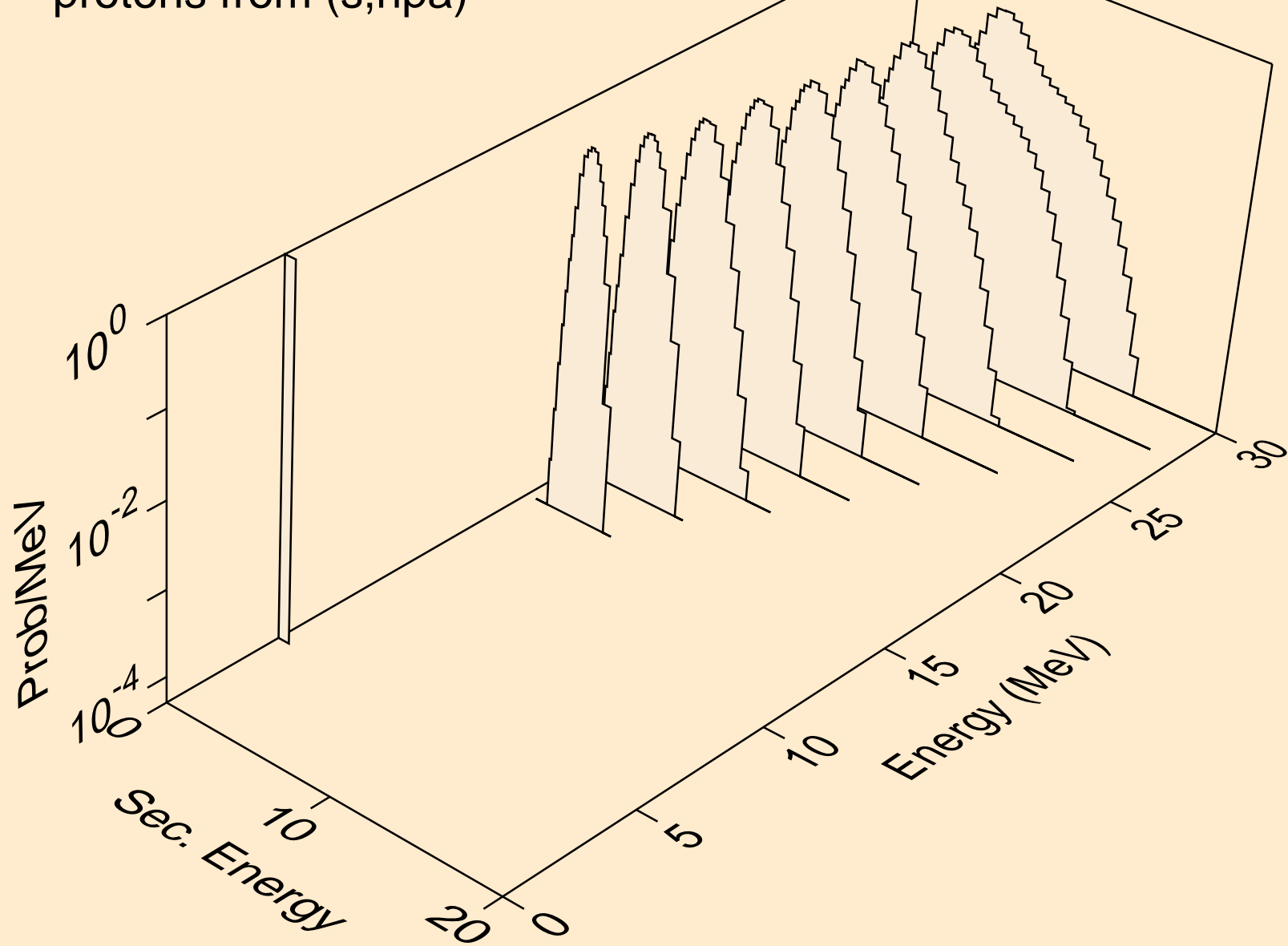
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protons from (s,2np)



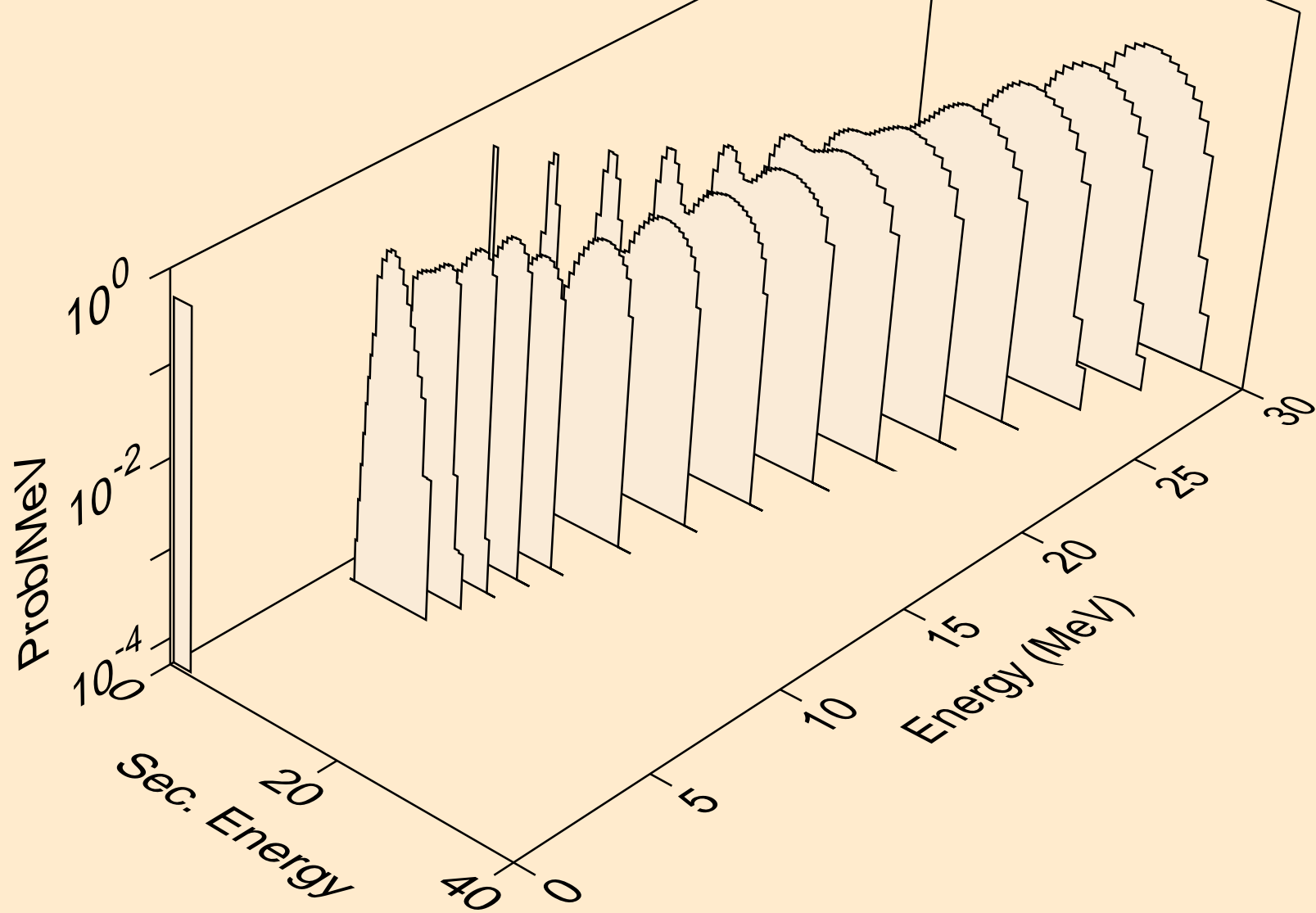
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protons from (s,2np)



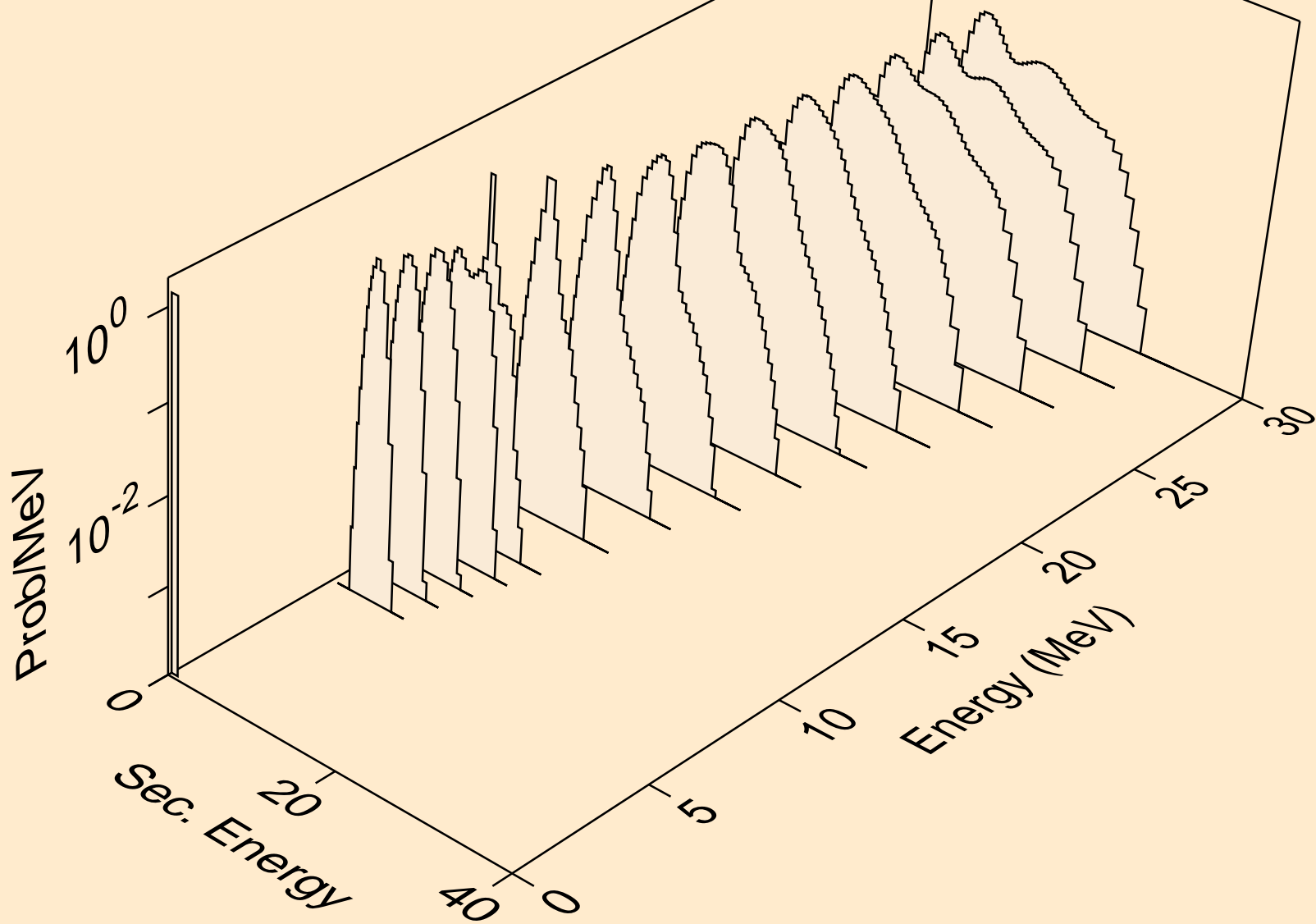
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,npa)



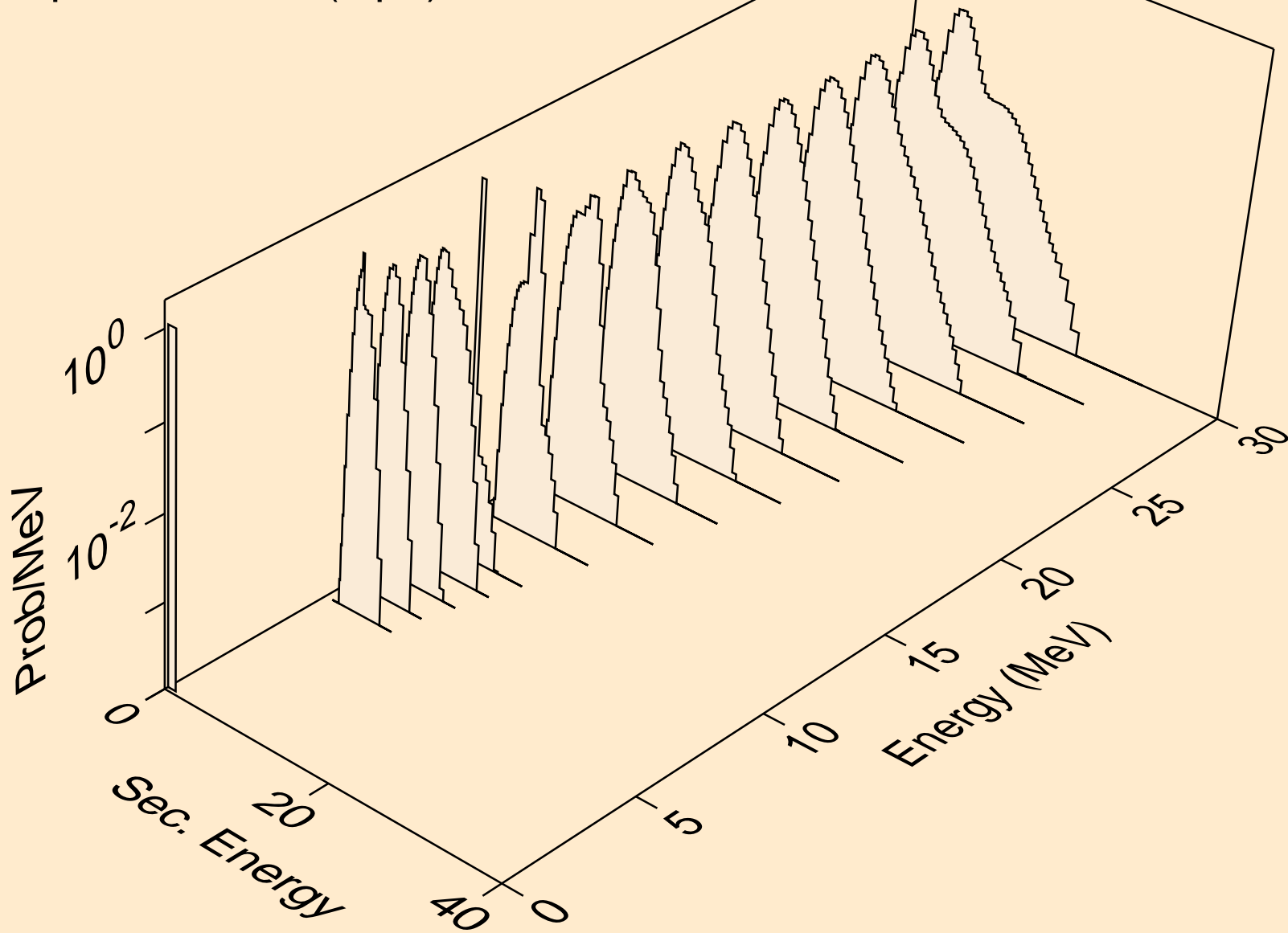
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,p)



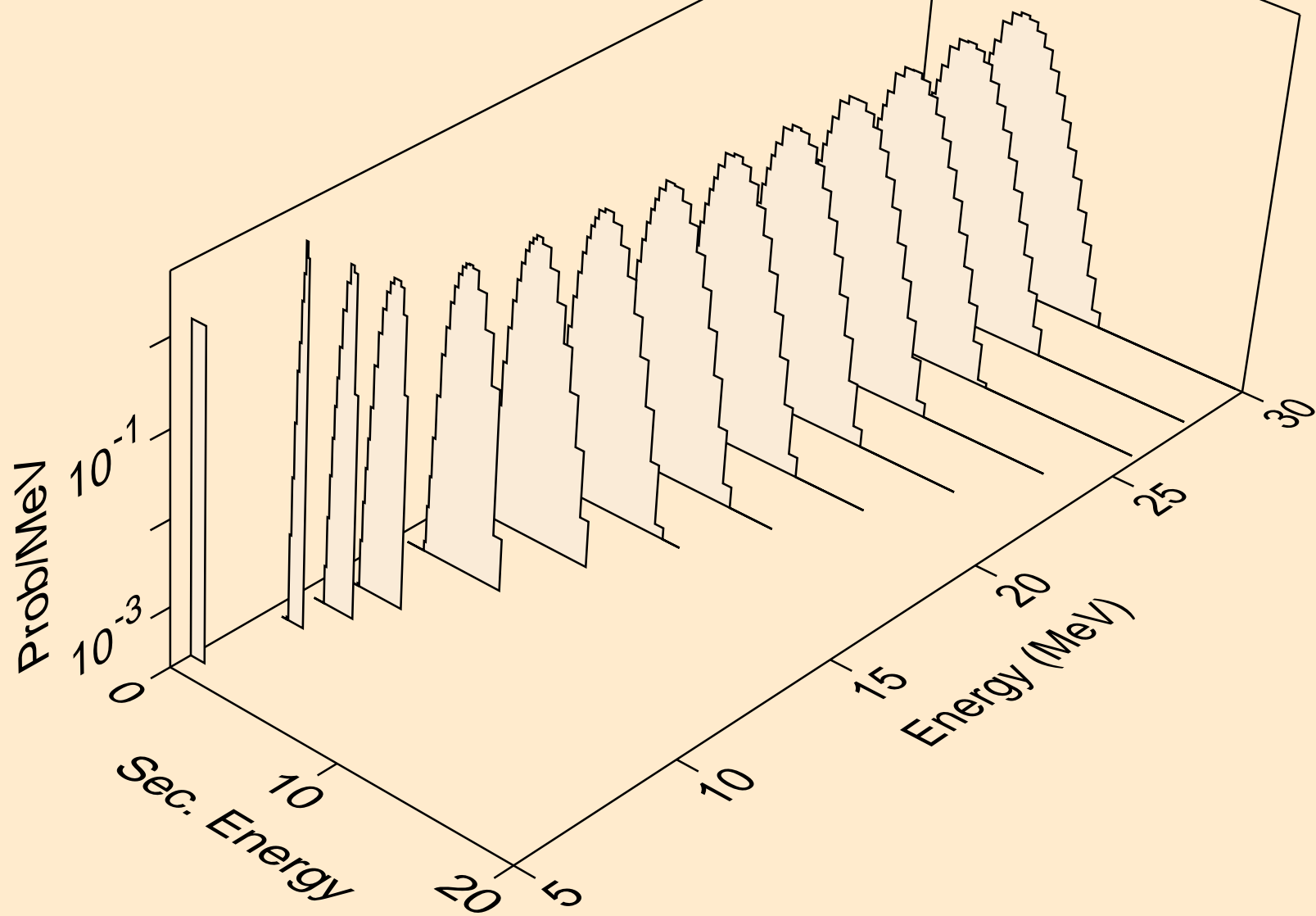
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,2p)



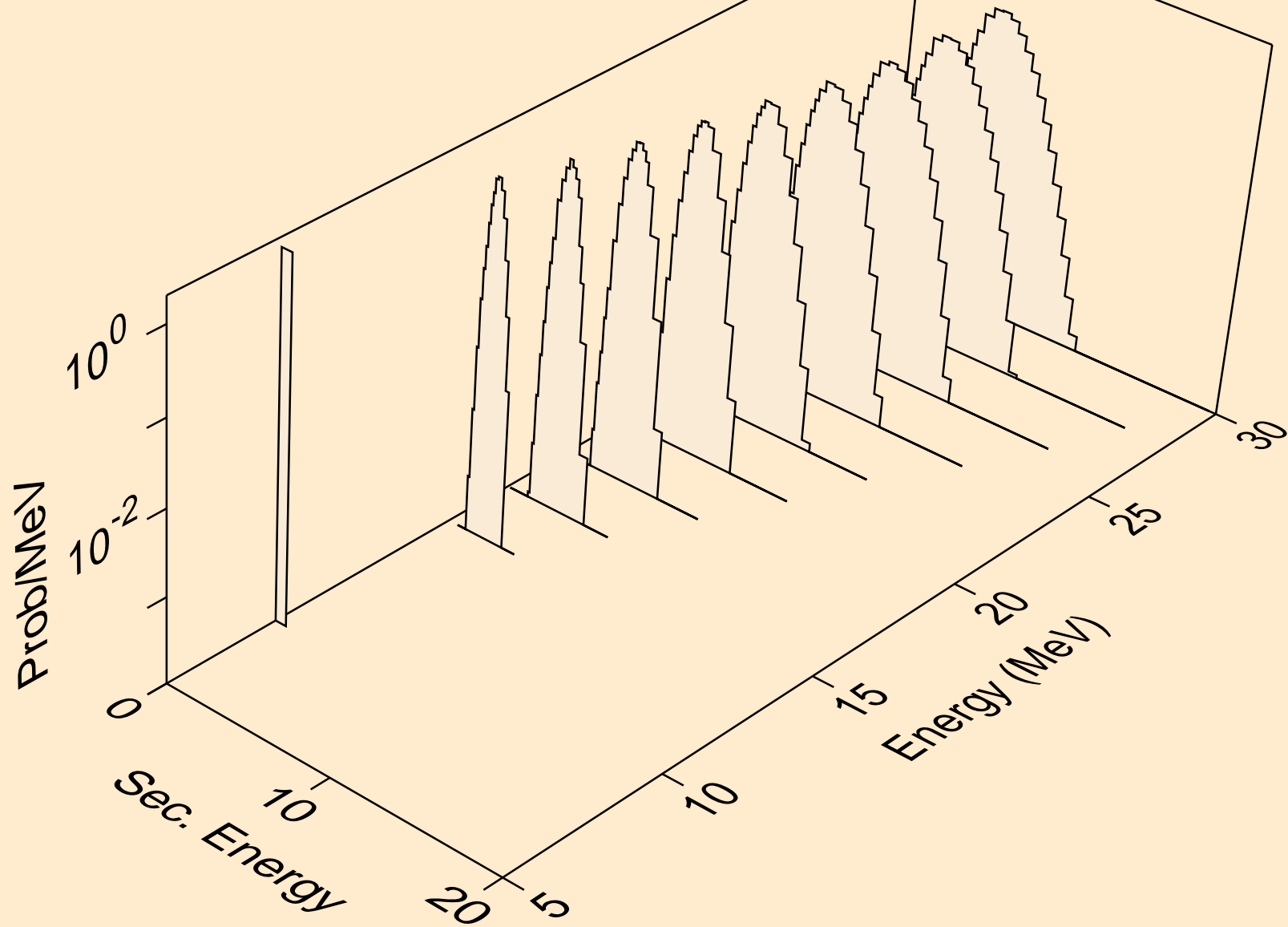
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,pa)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,pd)

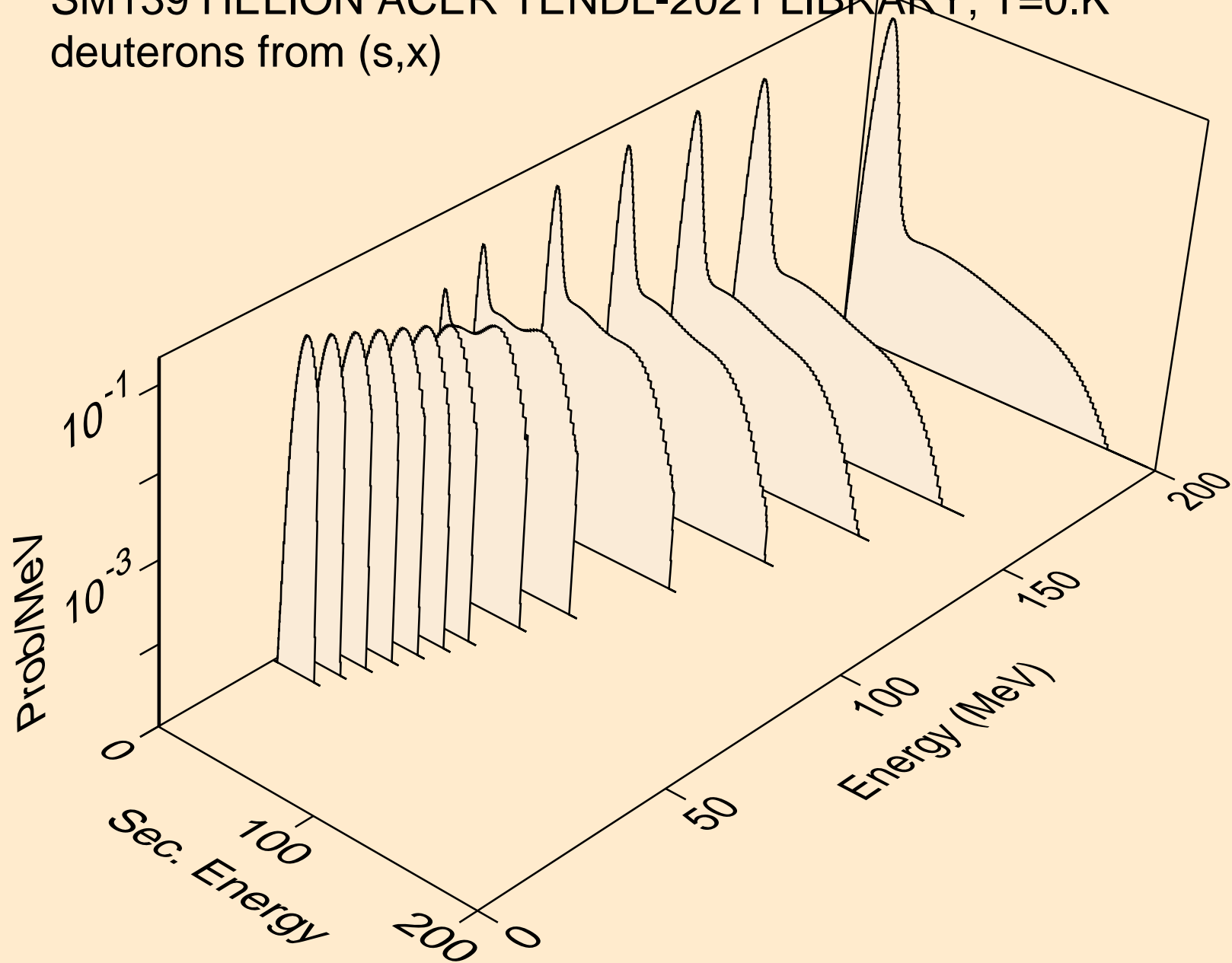


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
protons from (s,pt)

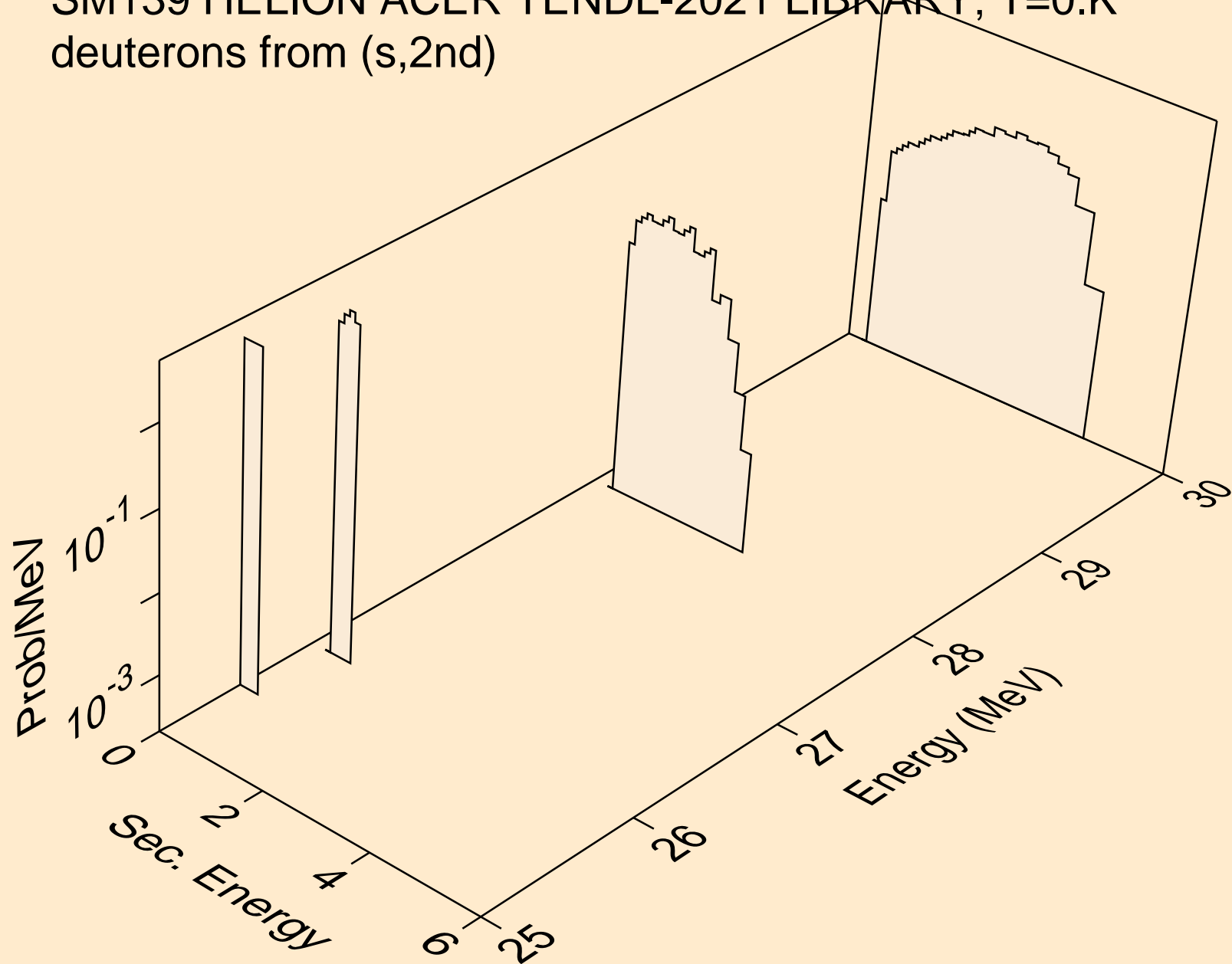




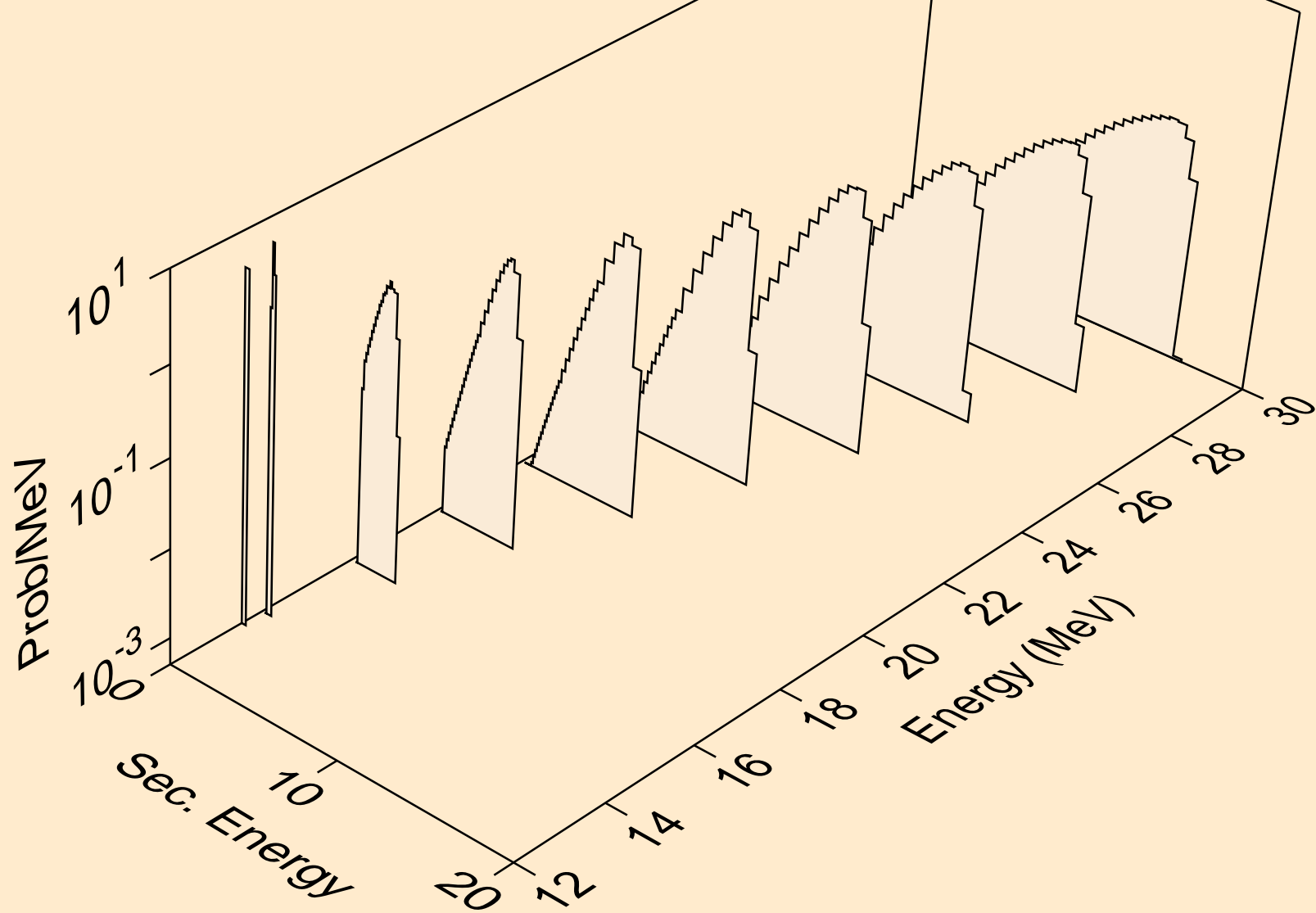
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (s,x)



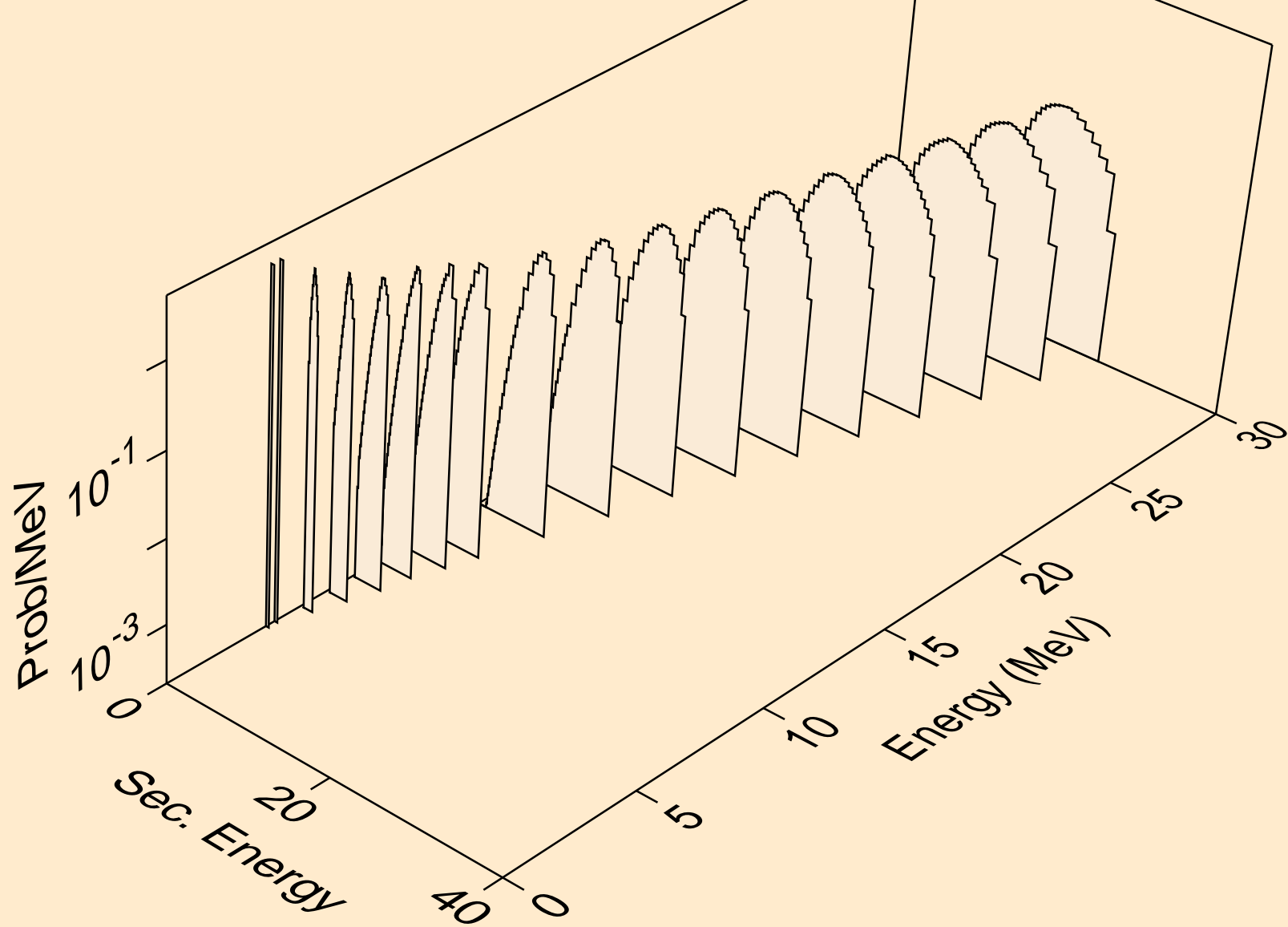
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deuterons from (s,2nd)



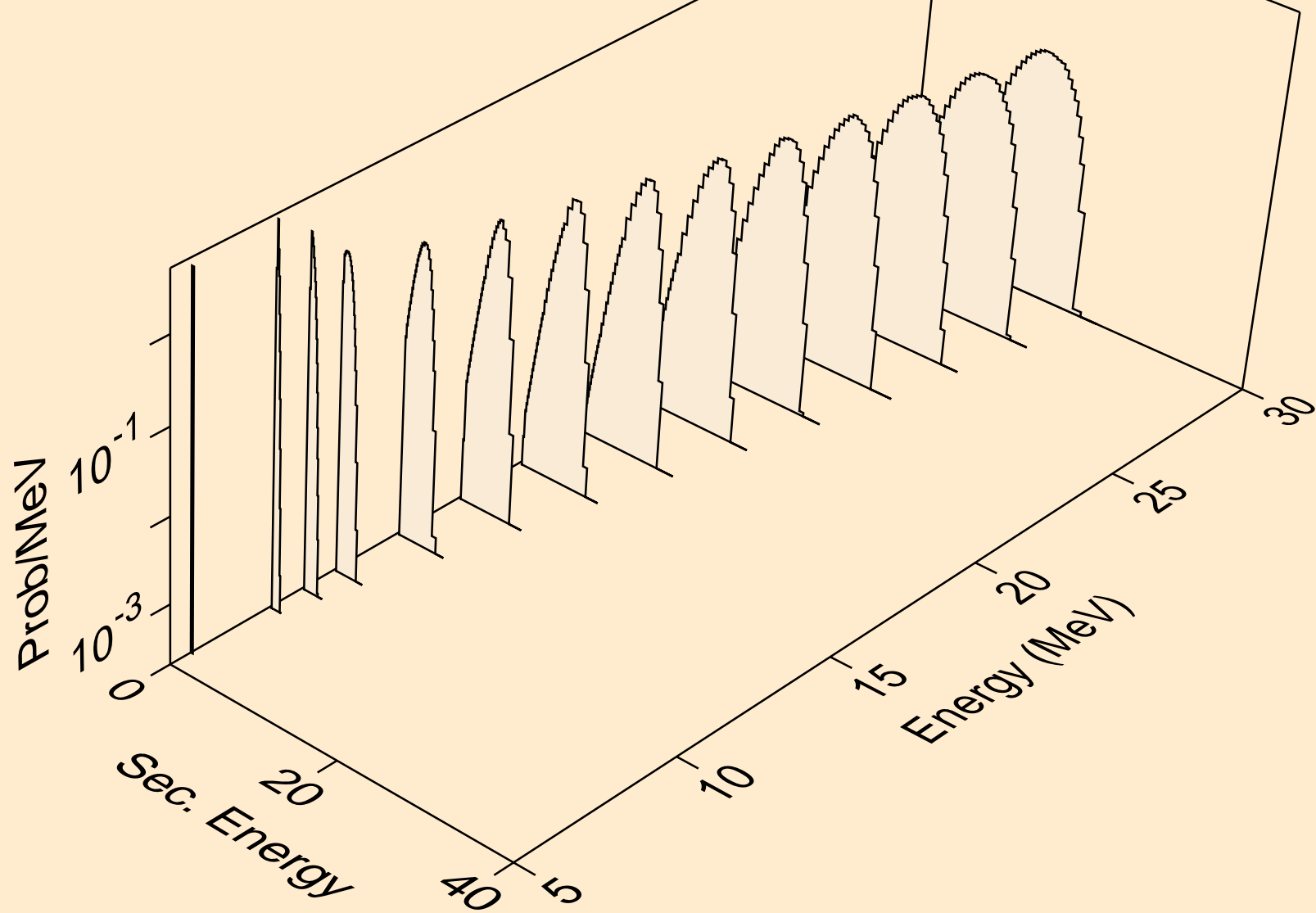
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deuterons from (s,n\*)d



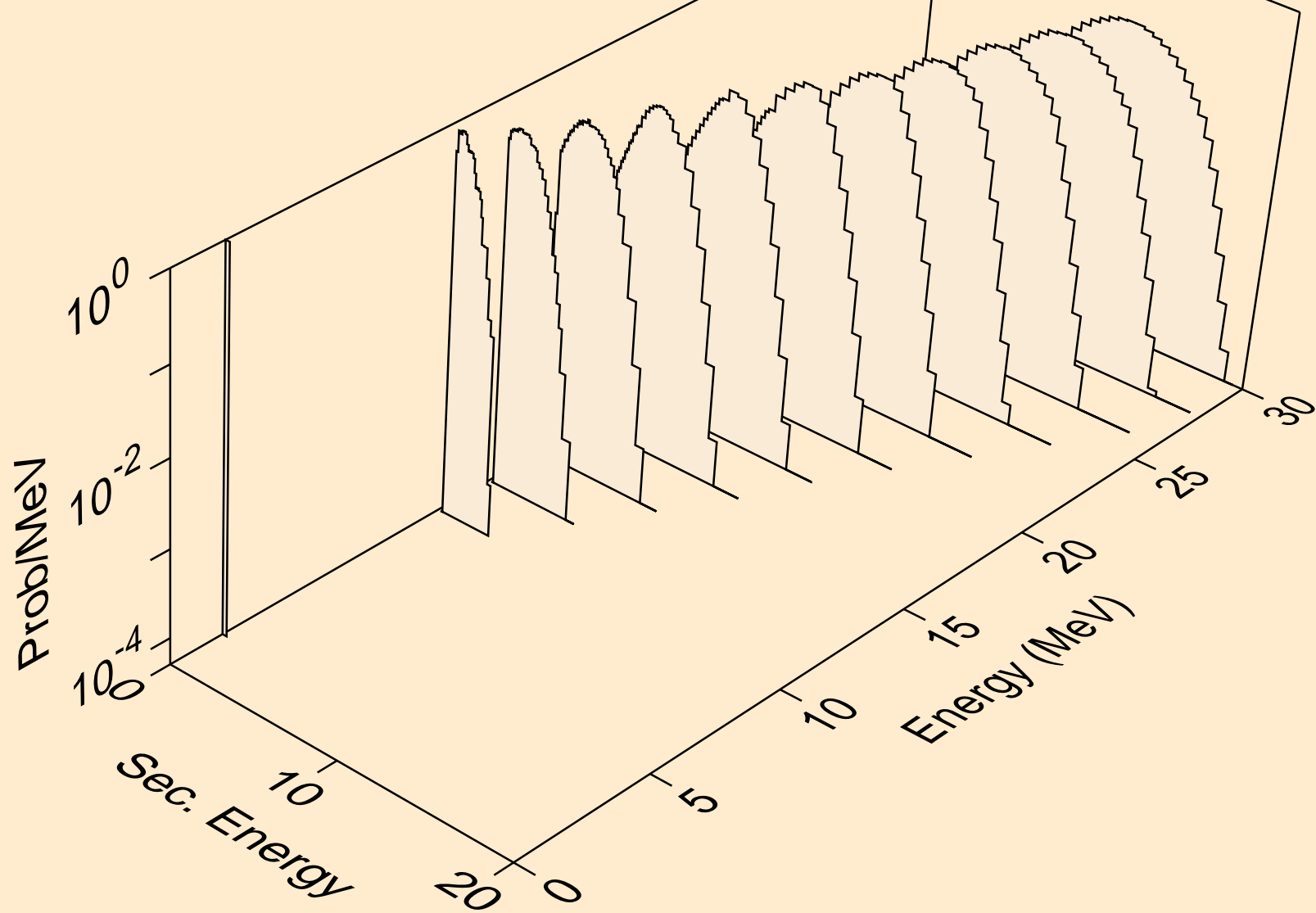
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deuterons from (s,d)



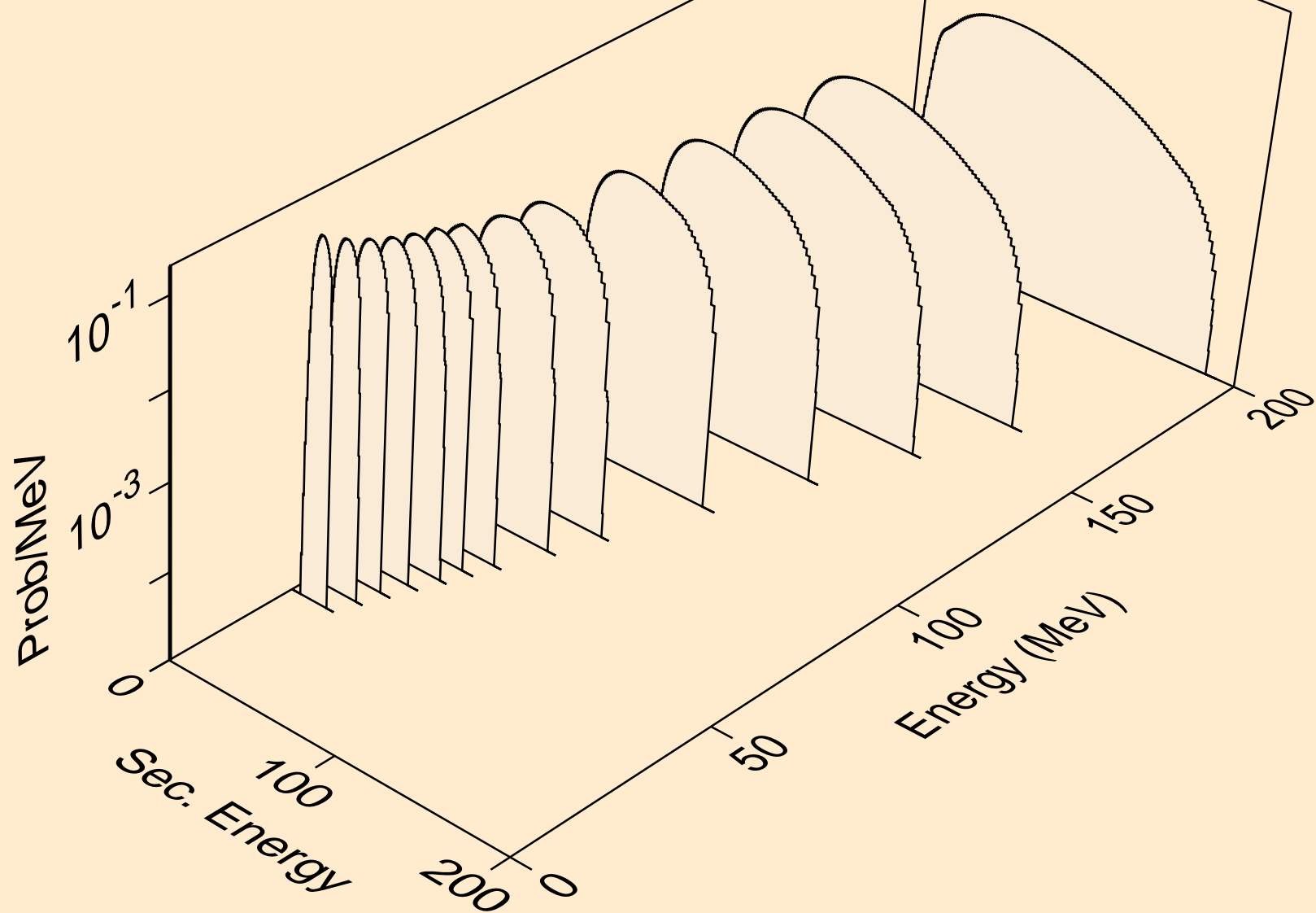
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deuterons from (s,pd)



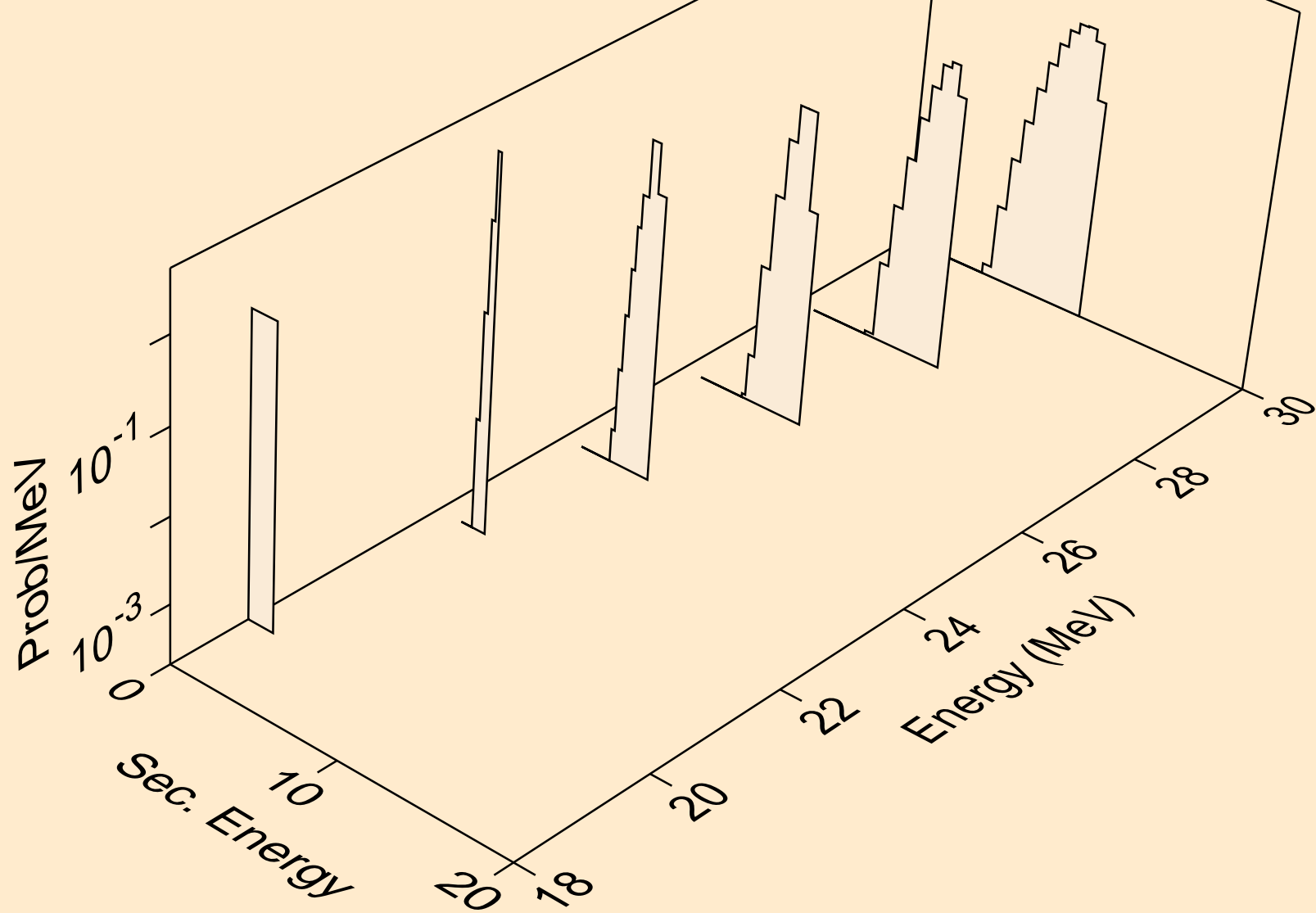
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (s,da)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,x)

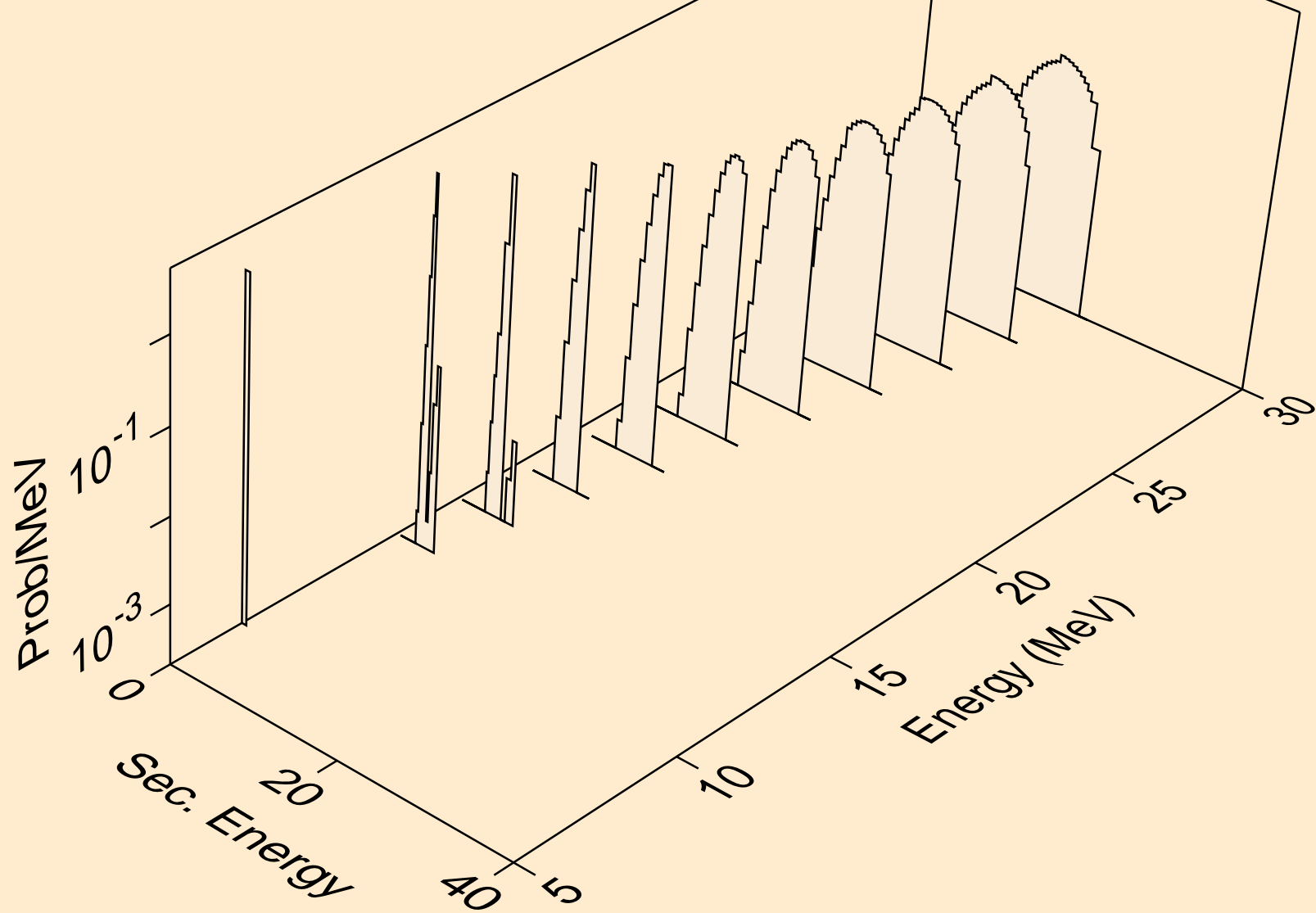


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,n\*)t

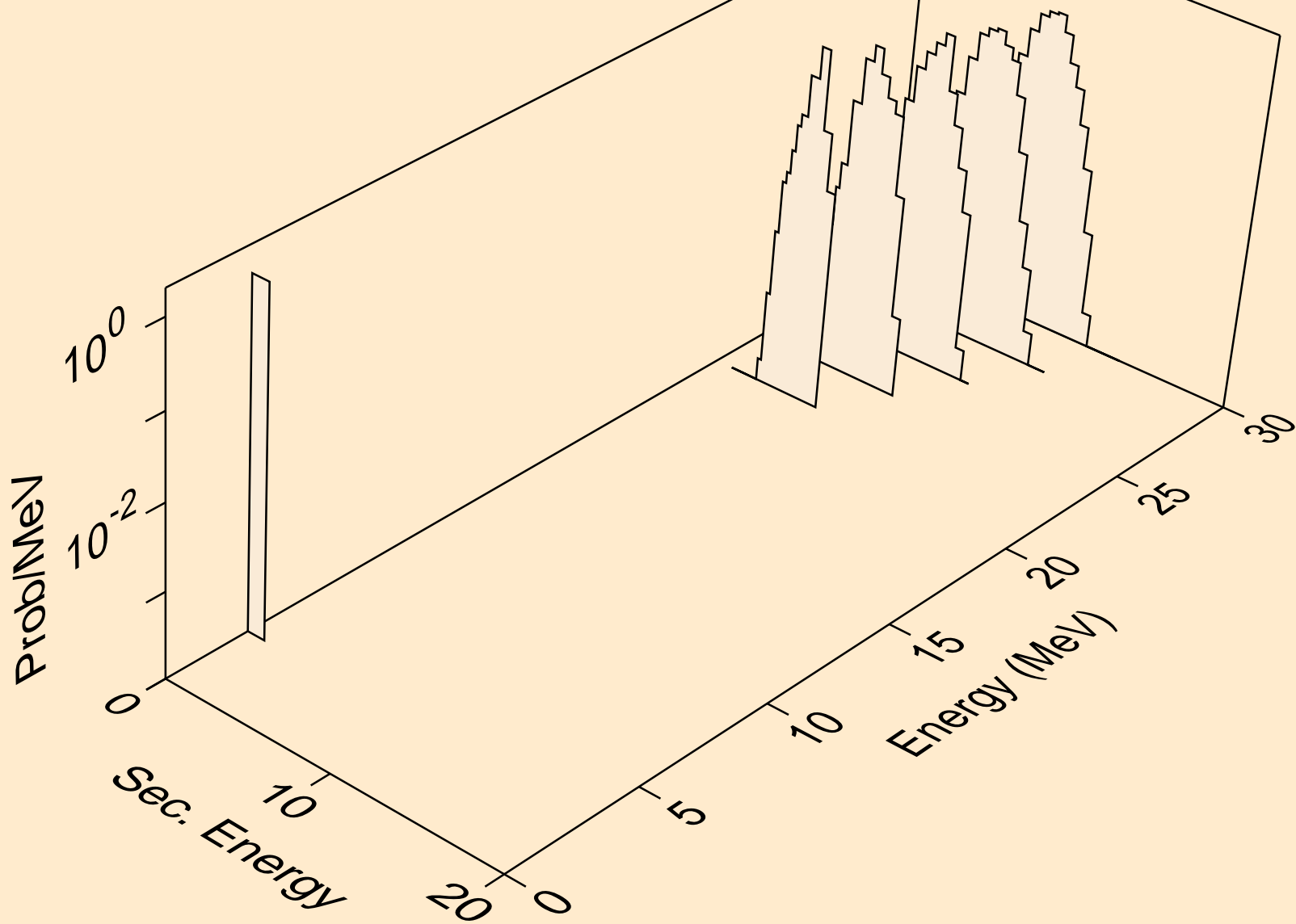




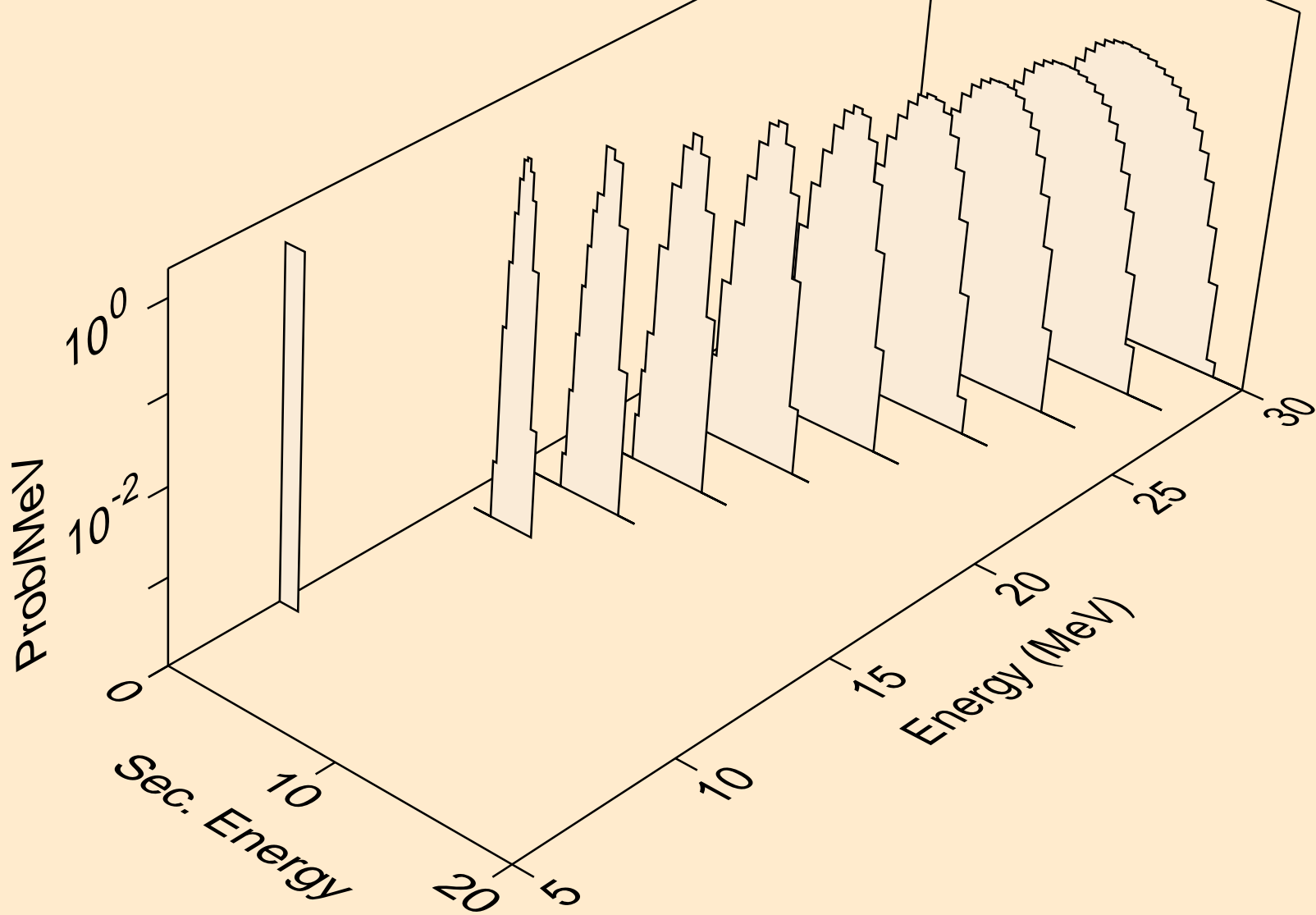
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tritons from (s,t)



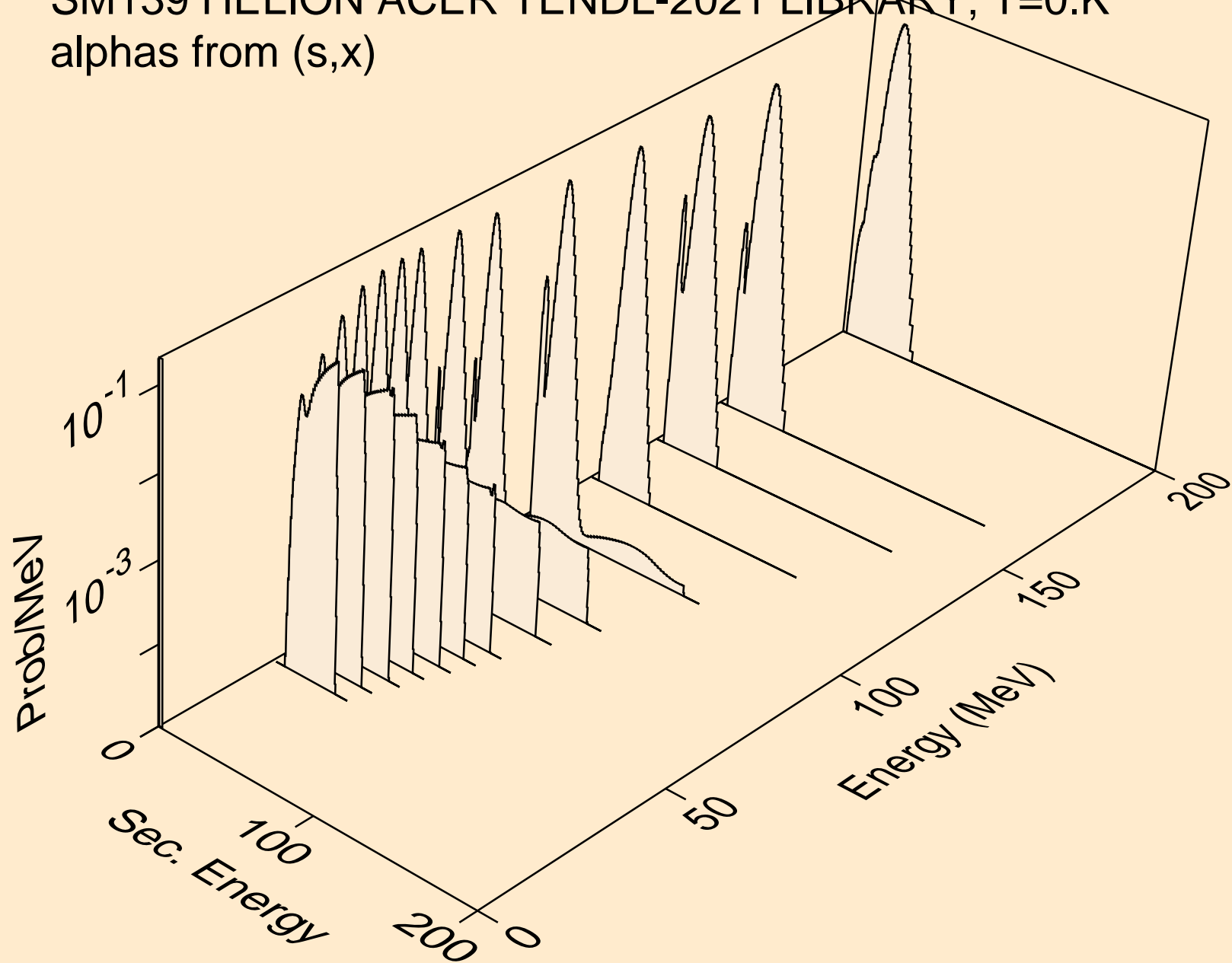
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tritons from (s,t2a)



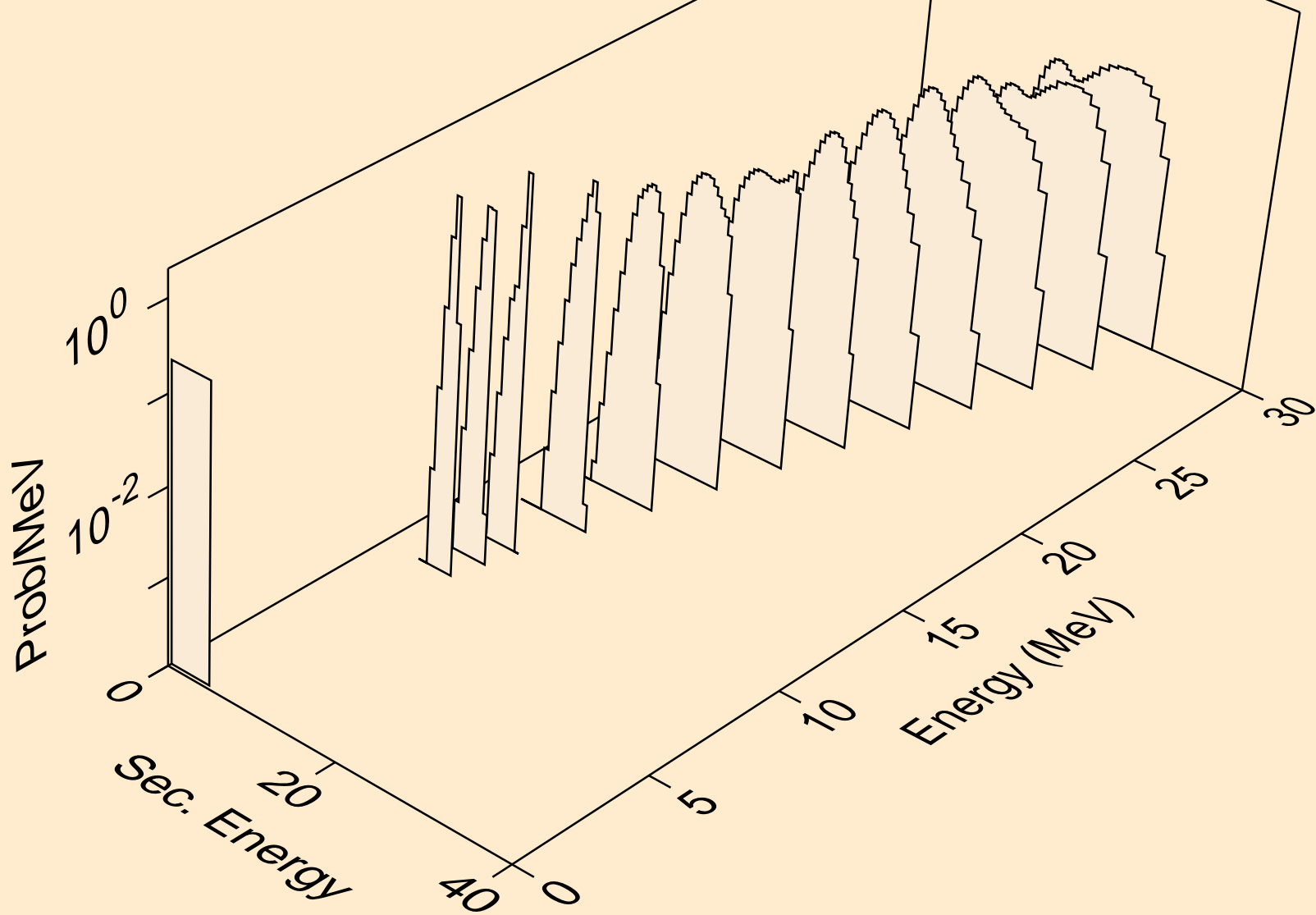
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (s,pt)



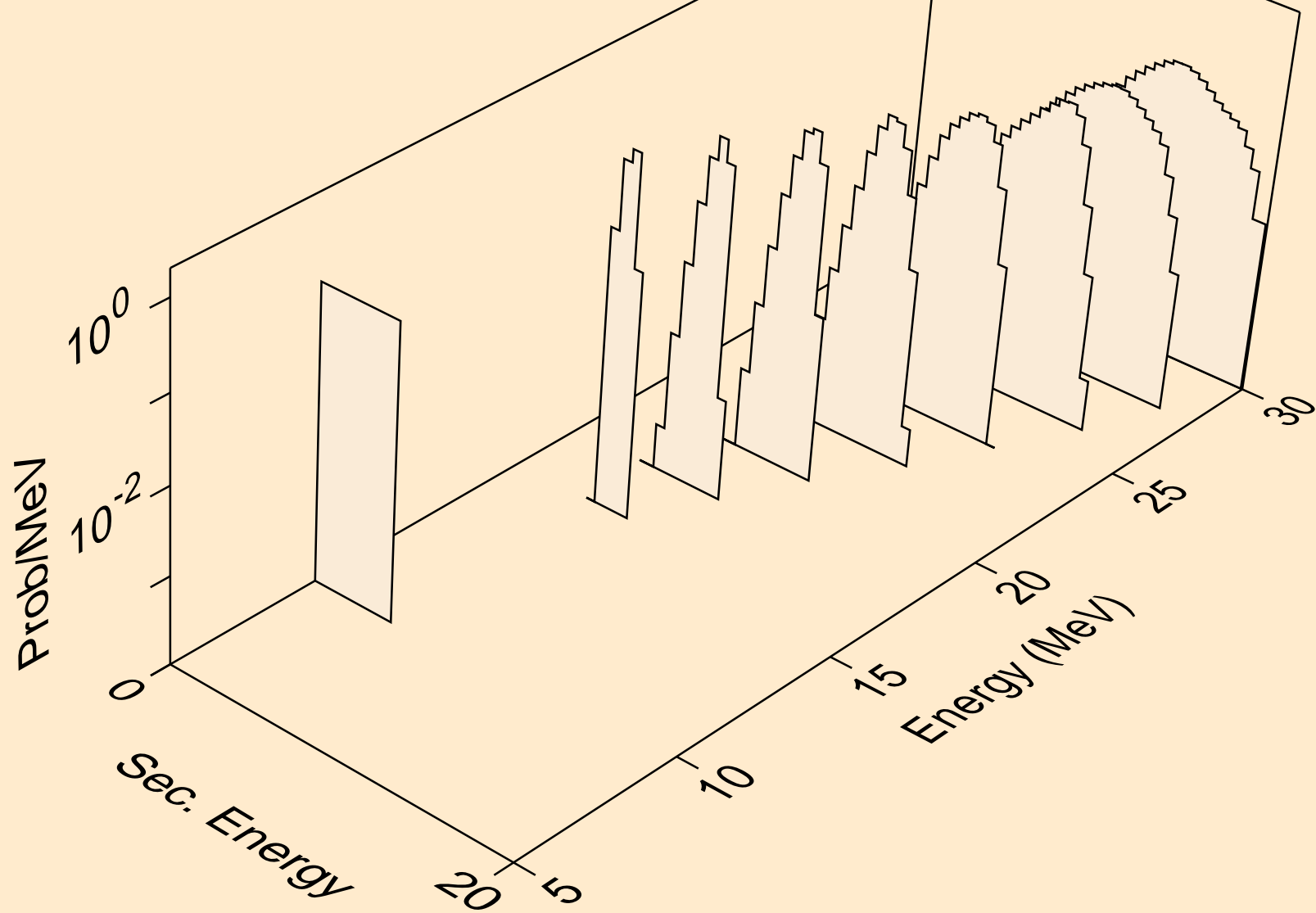
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,x)



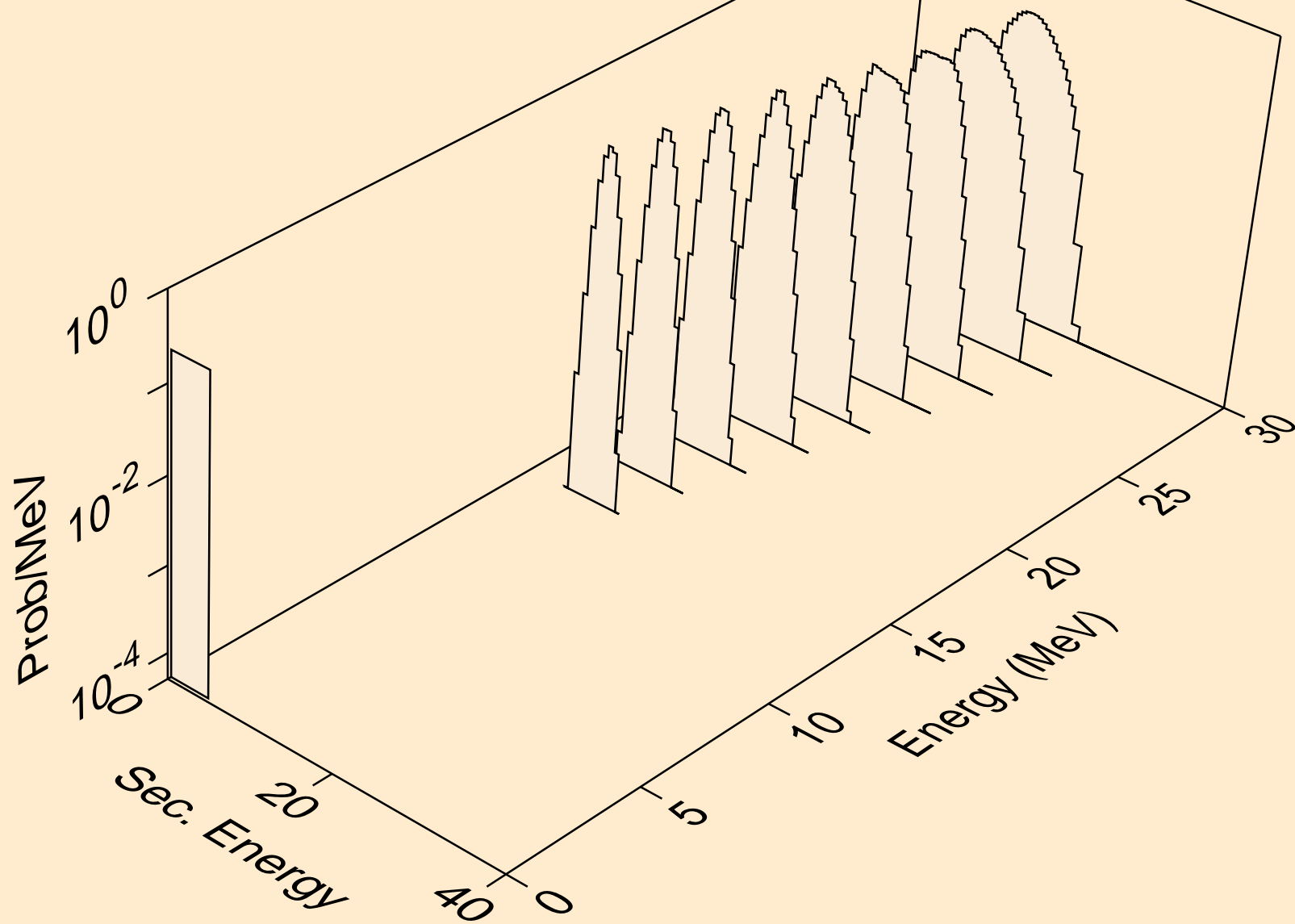
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,n\*)a



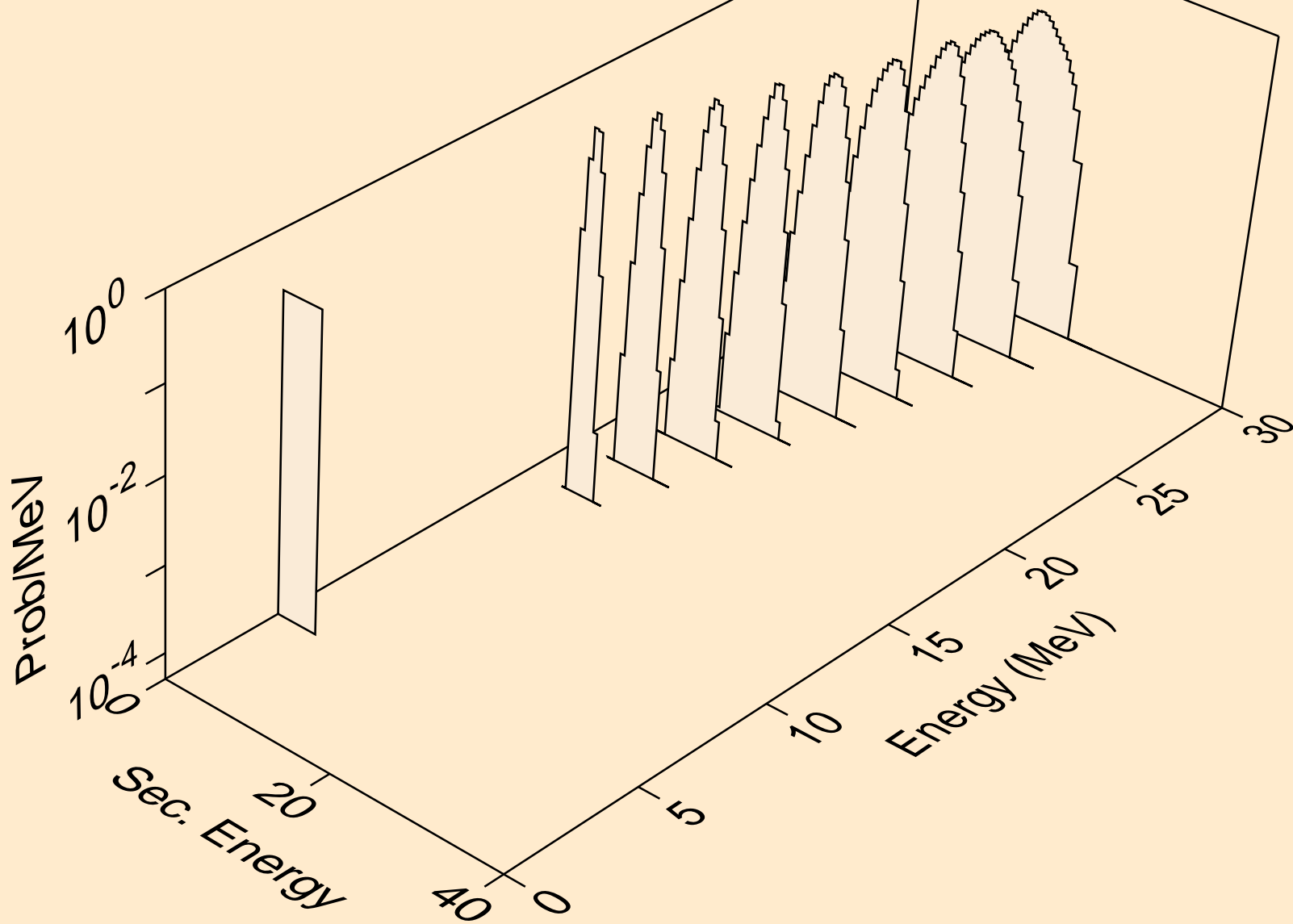
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2n)a



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,n\*)2a

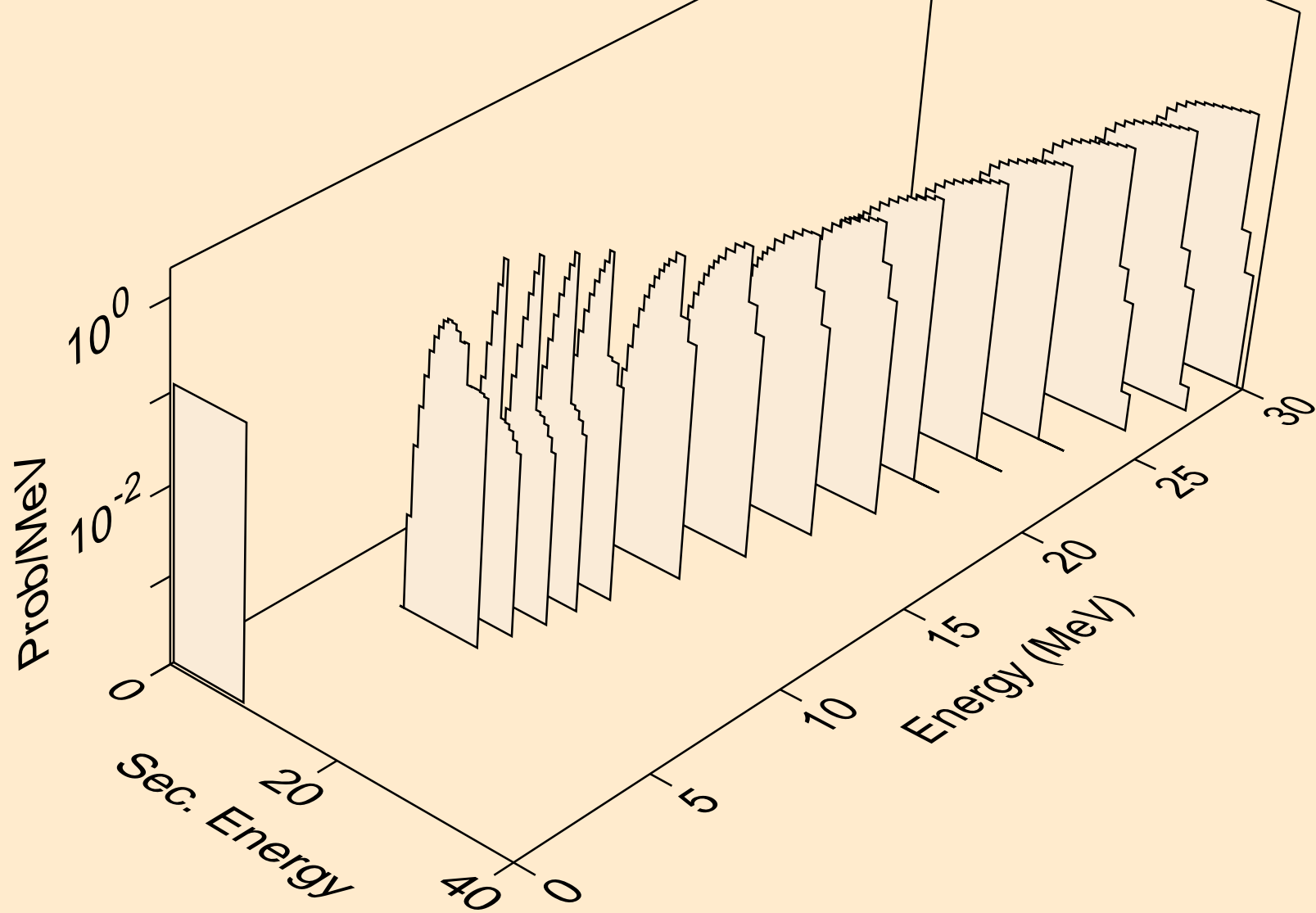


SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,npa)

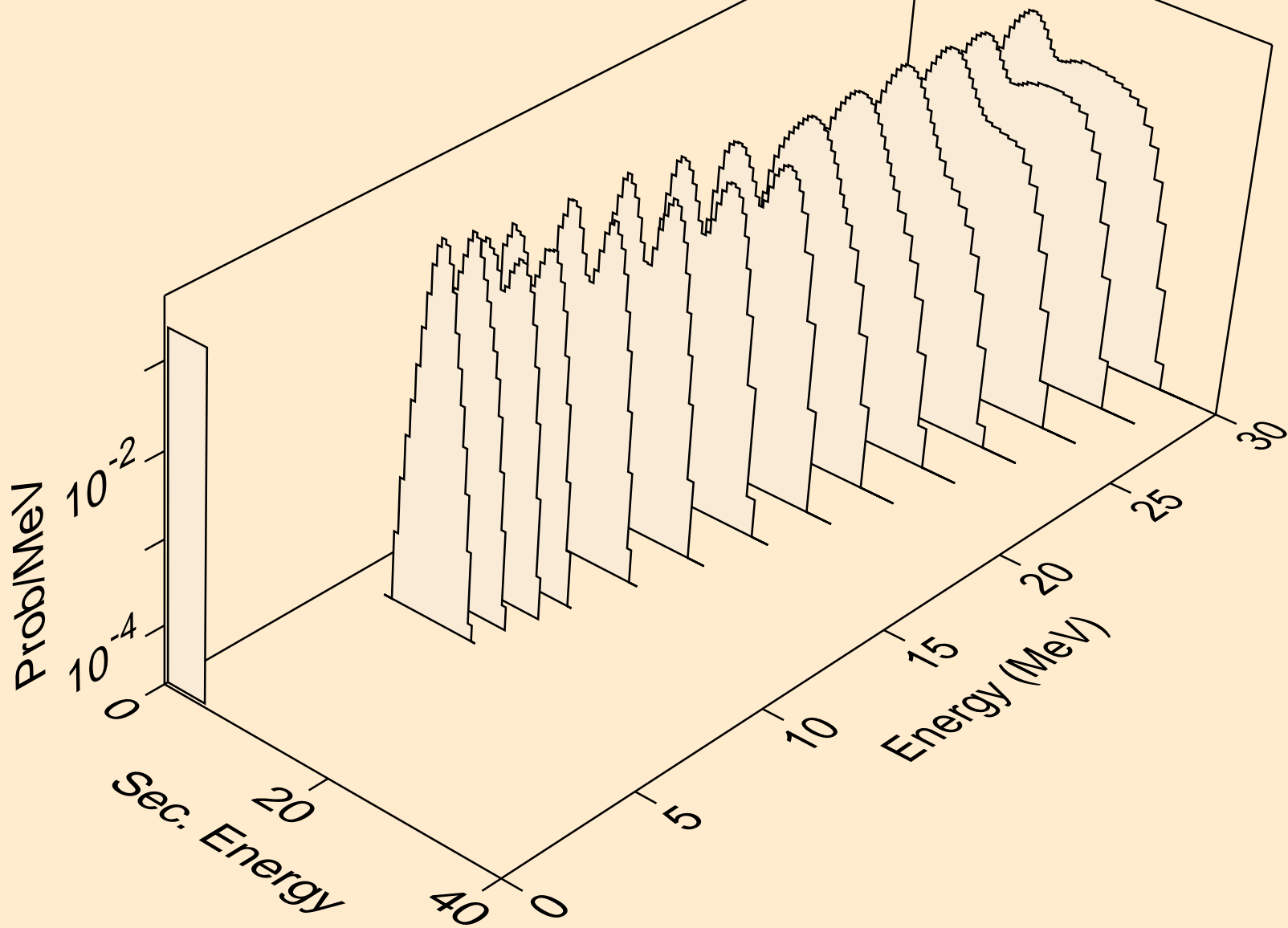




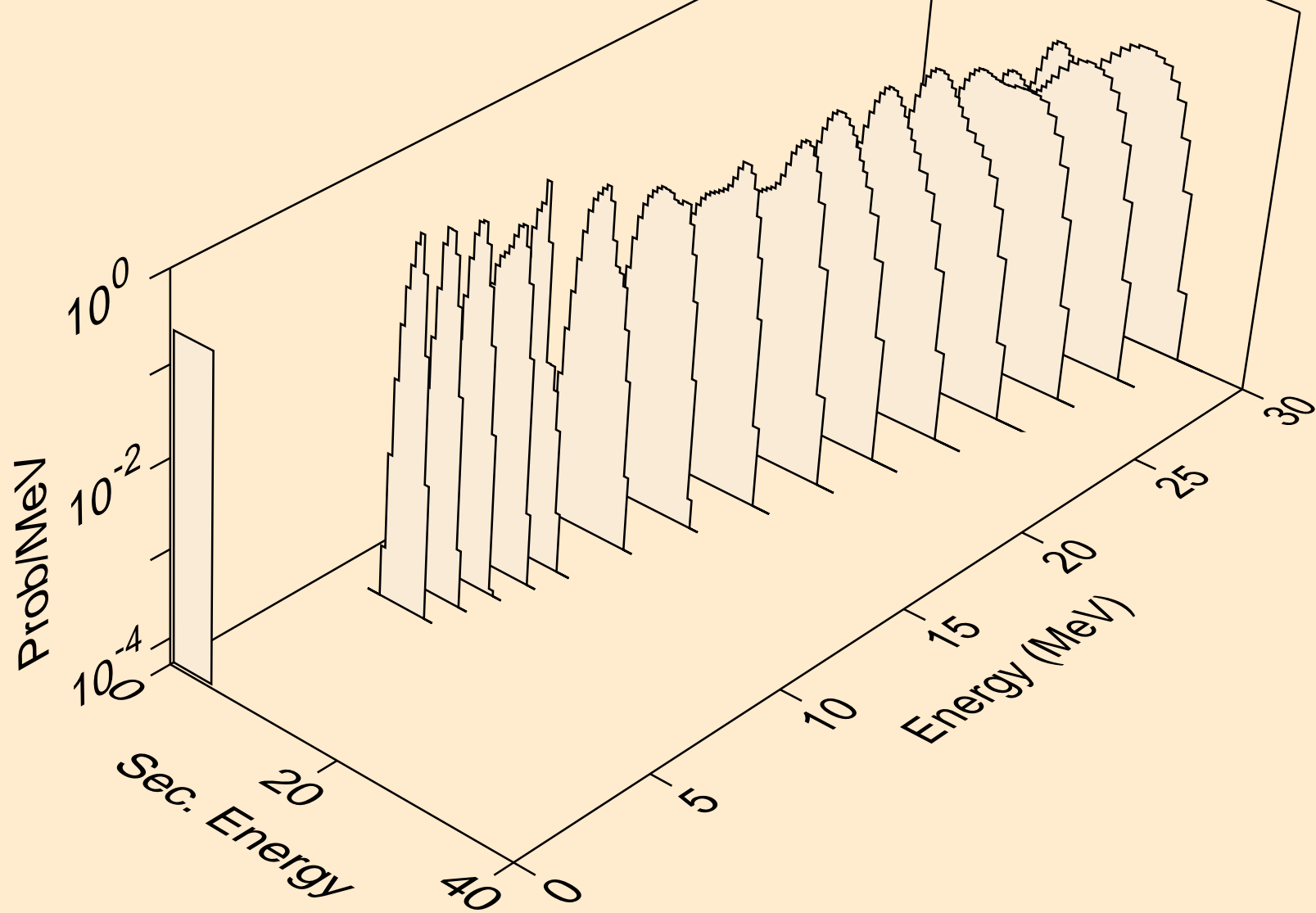
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alphas from (s,a)



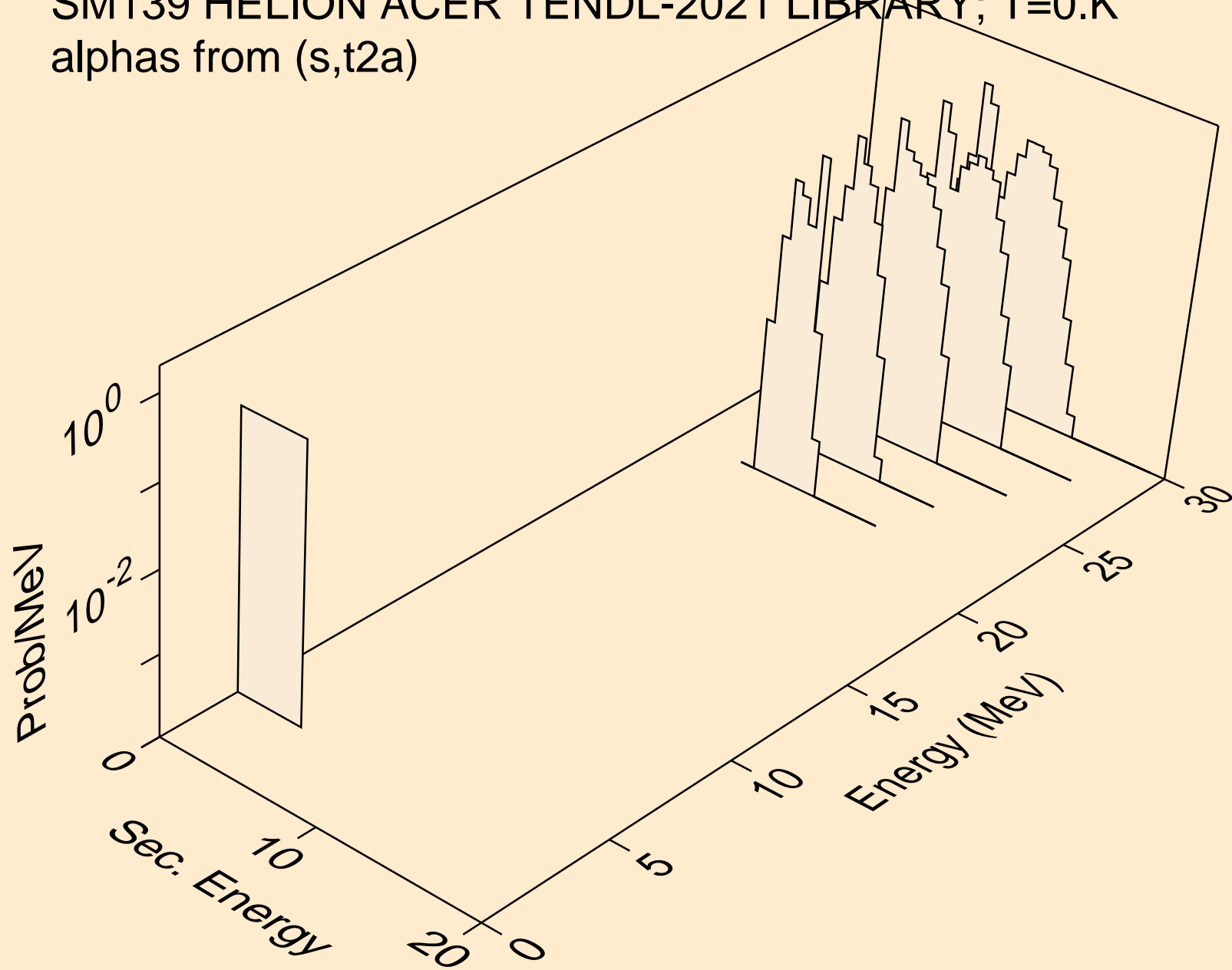
SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,2a)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,pa)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,t2a)



SM139 HELION ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (s,da)

