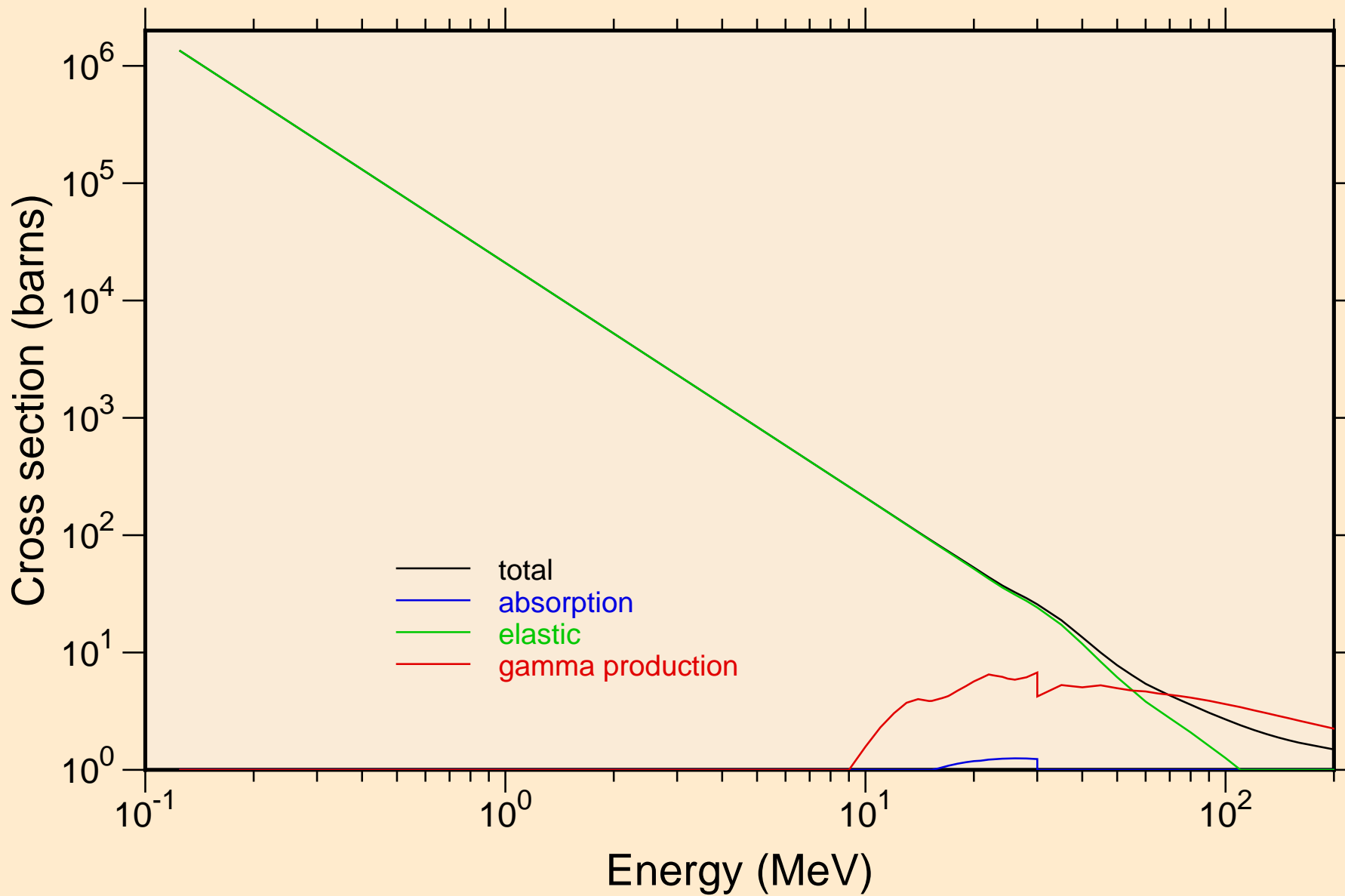


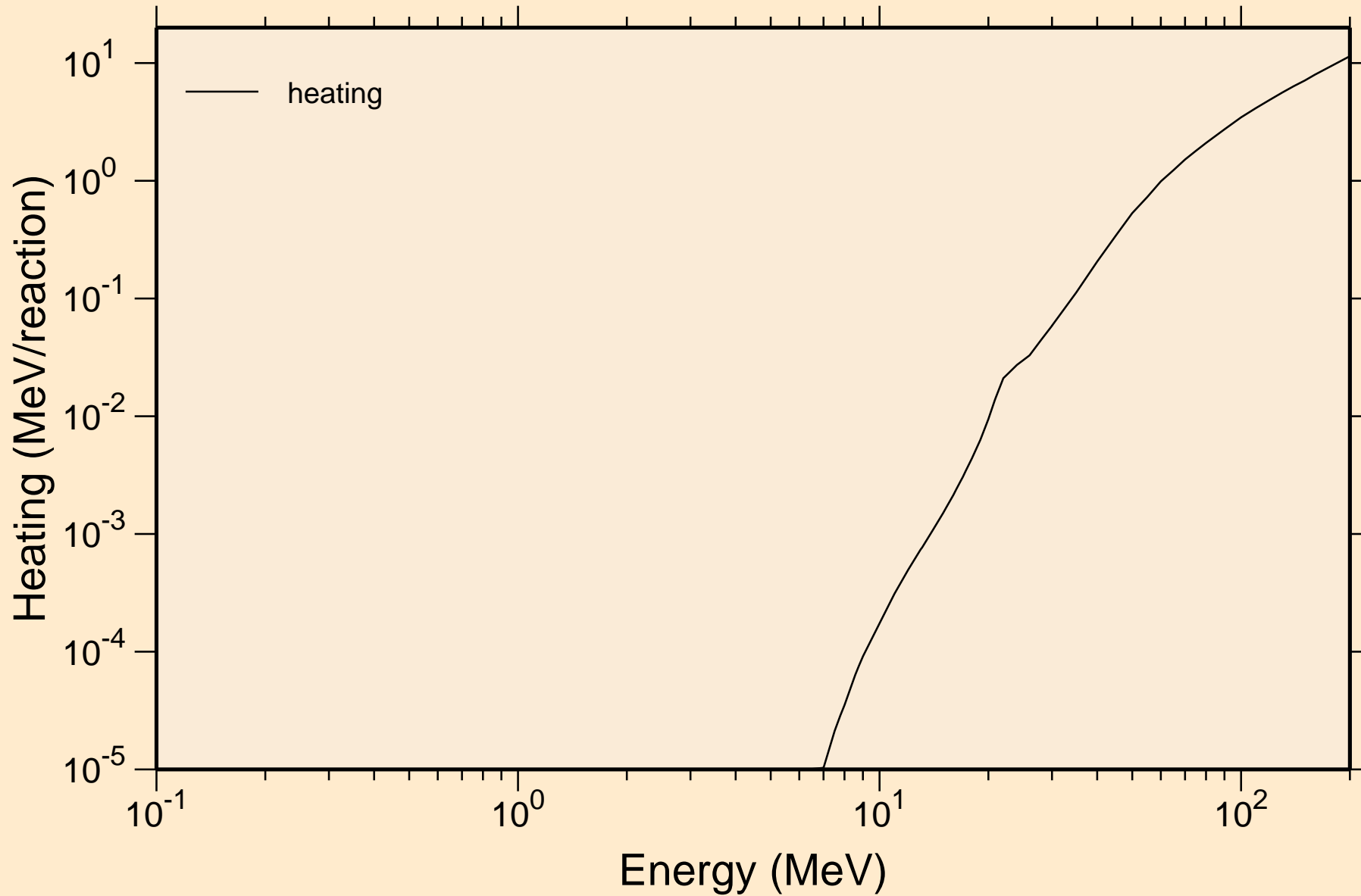
# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



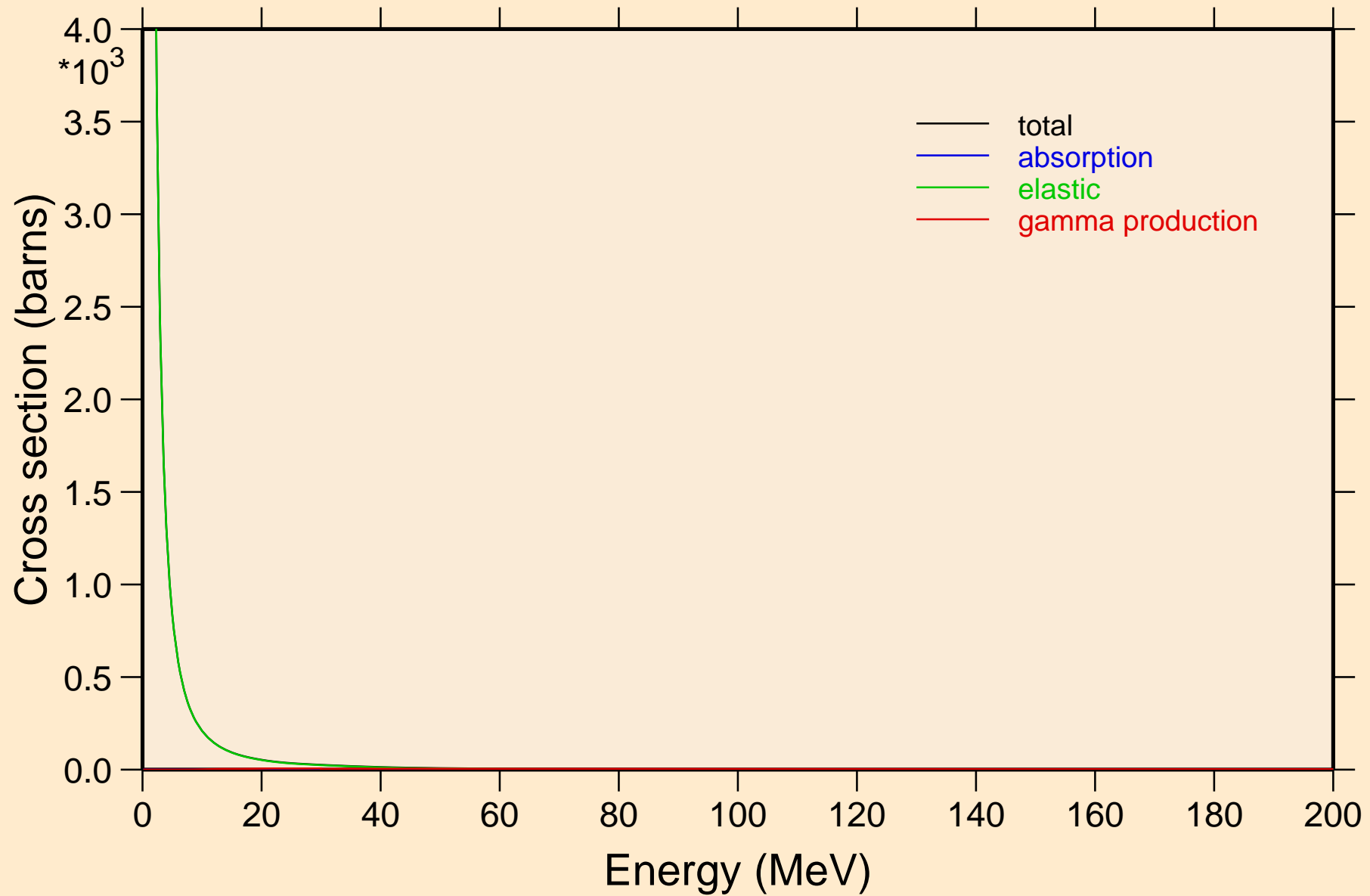
# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



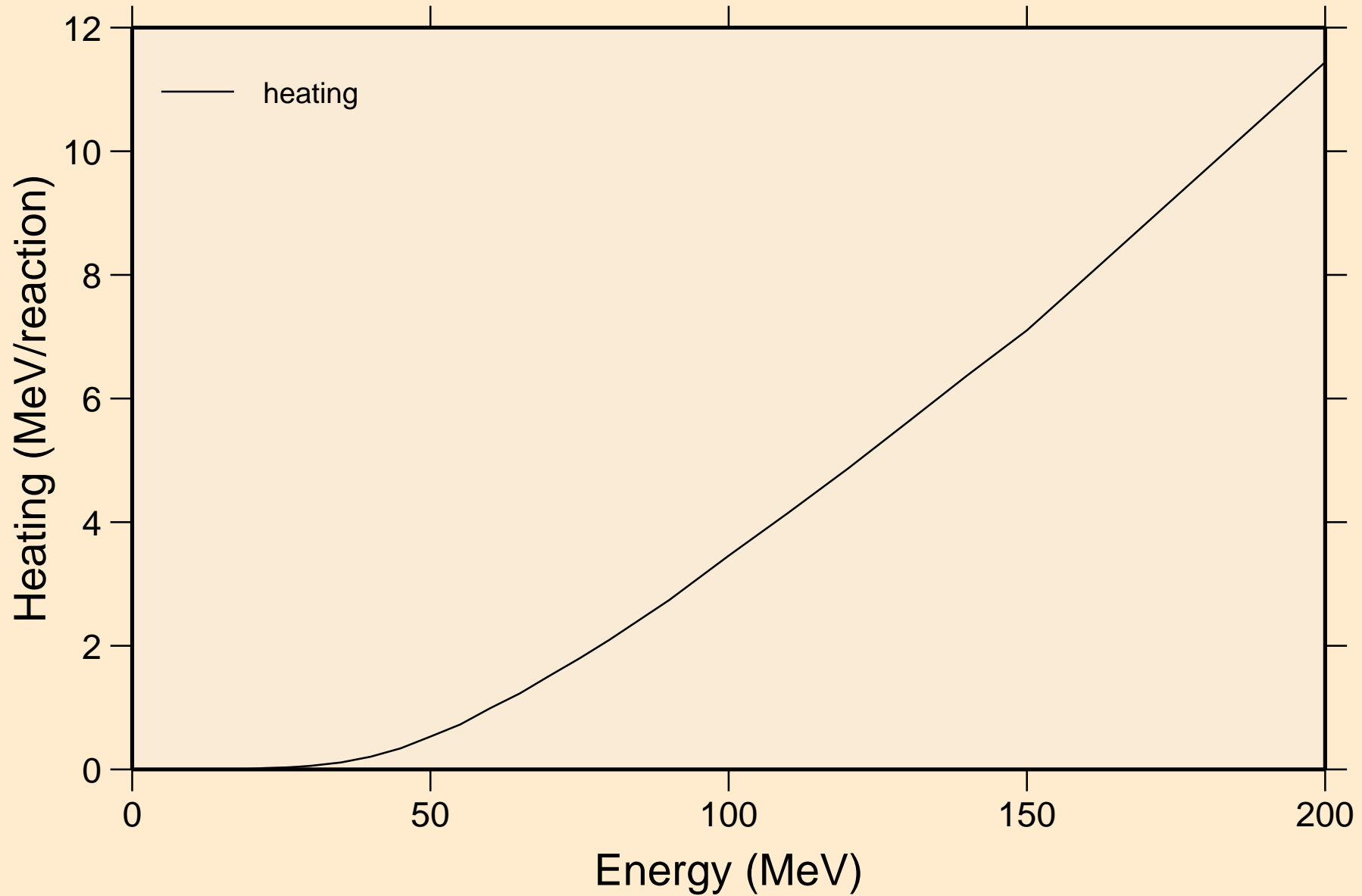
# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



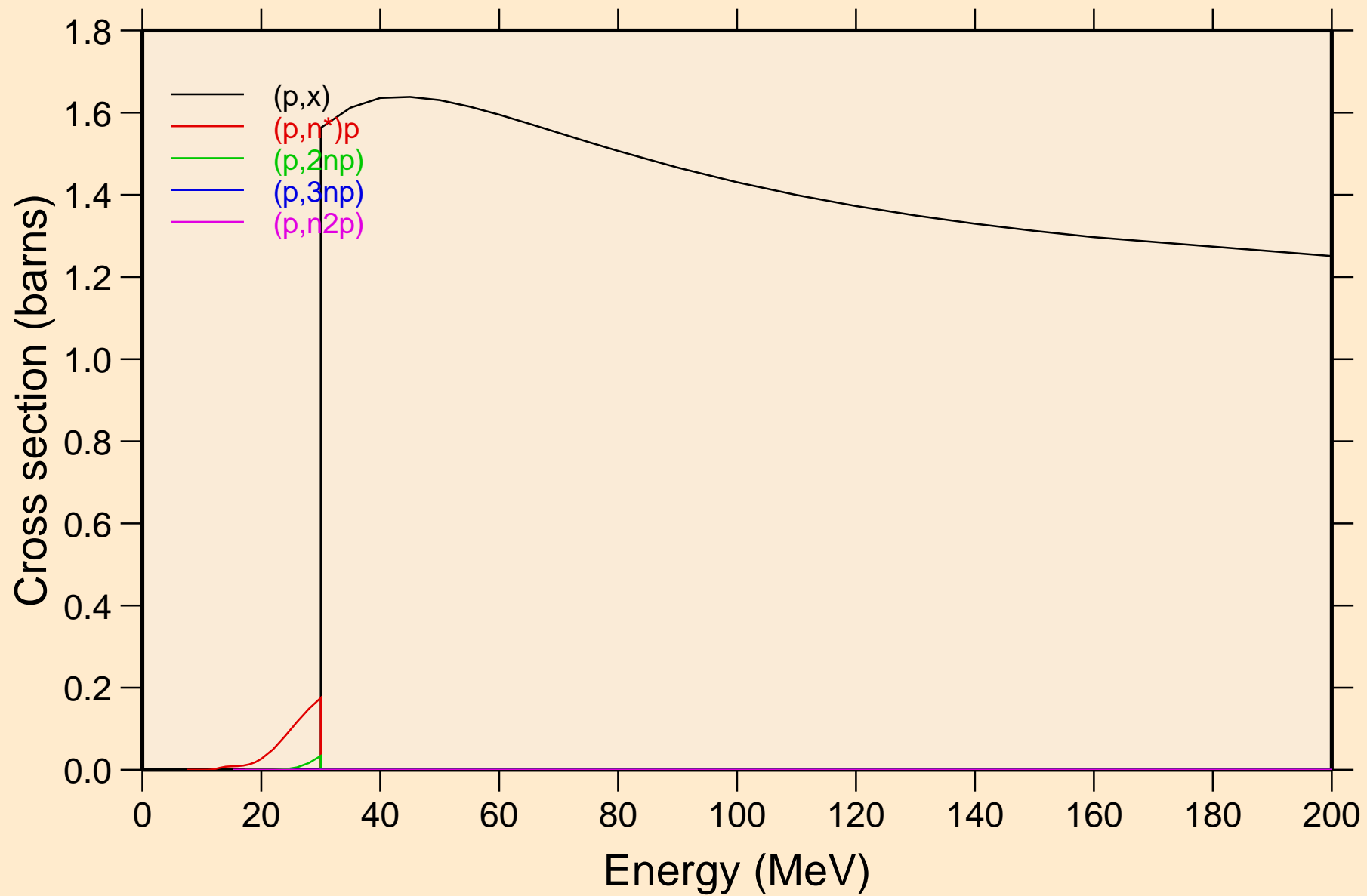
# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



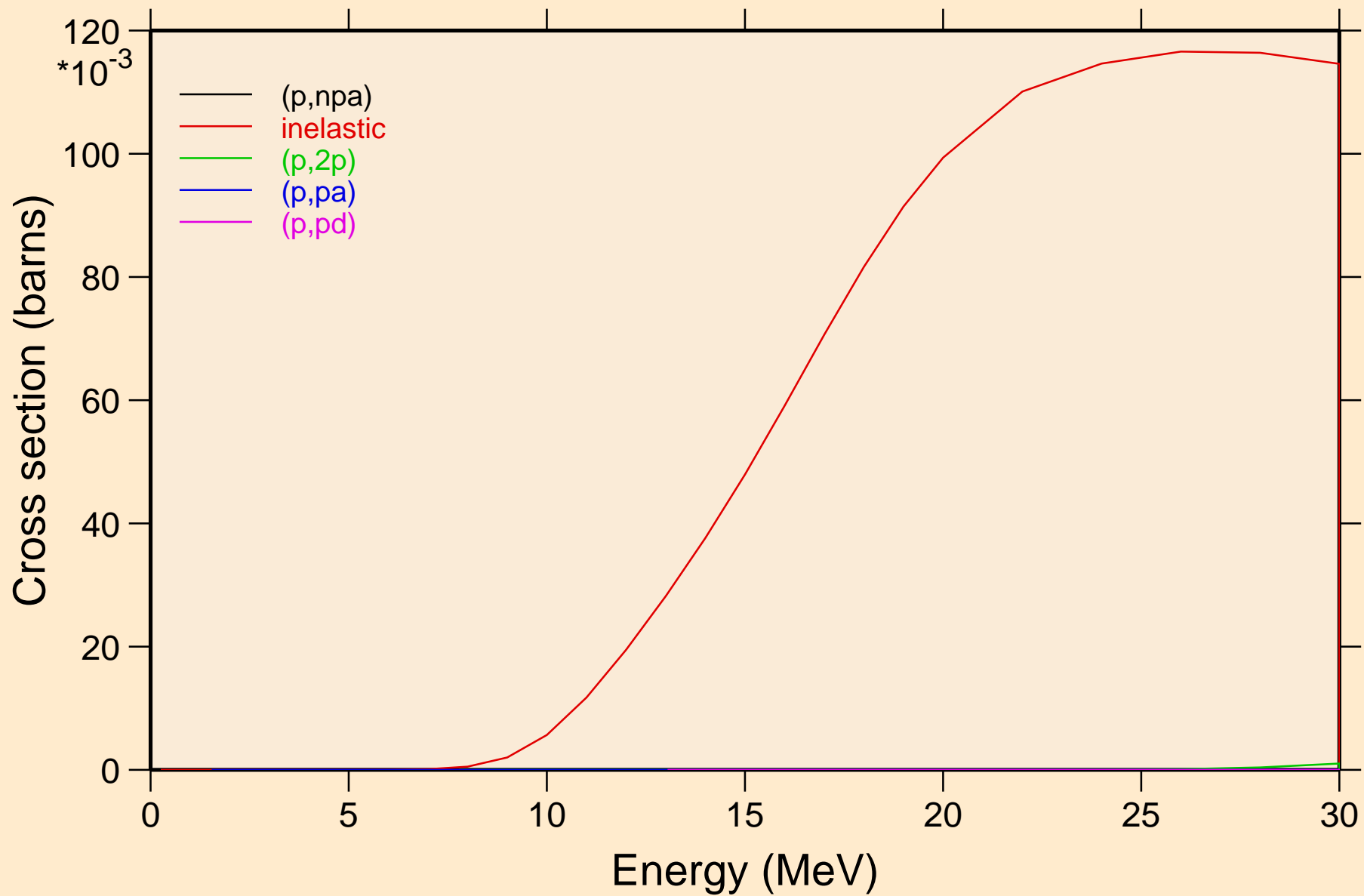
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## Threshold reactions



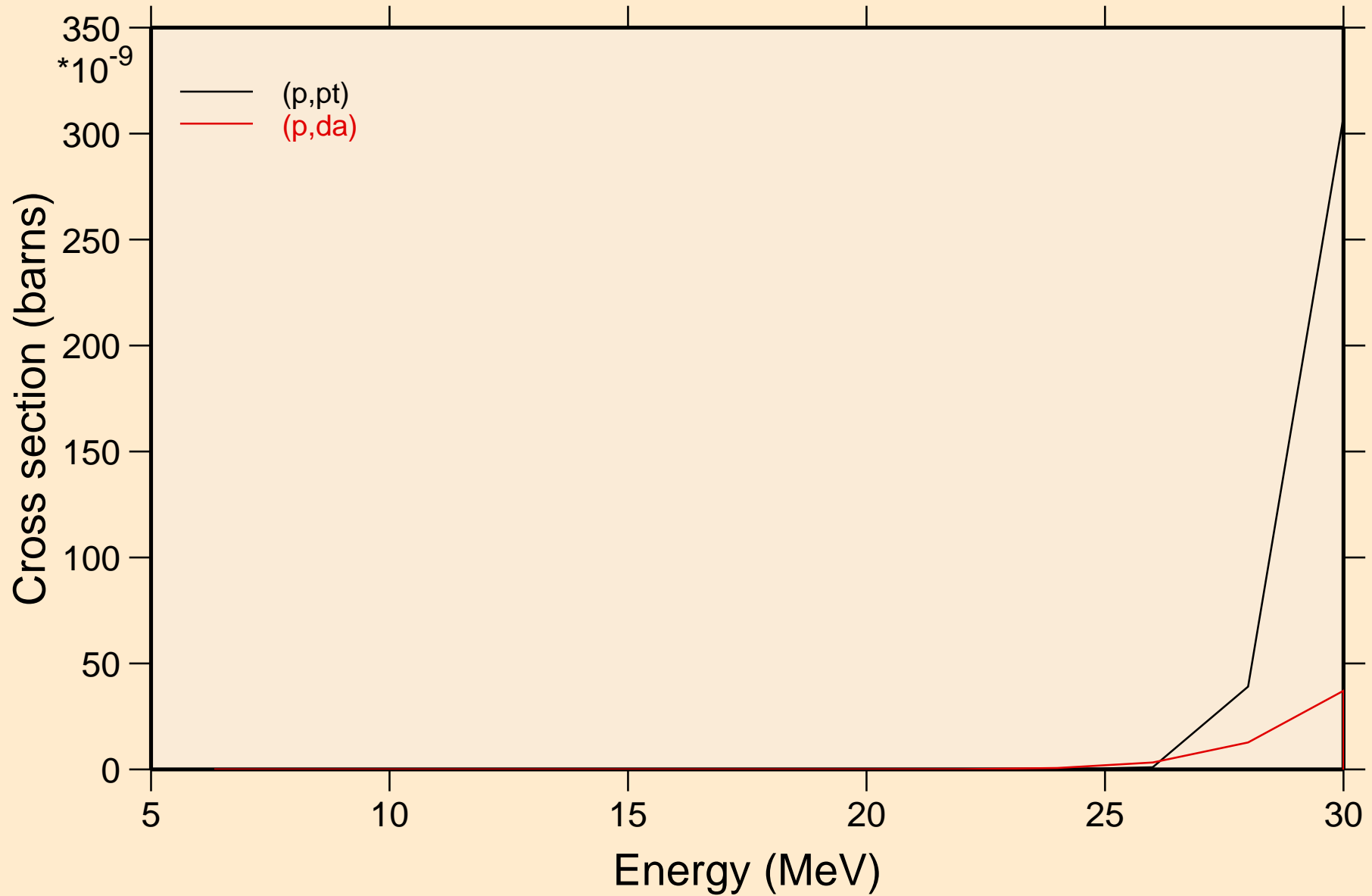
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## Threshold reactions

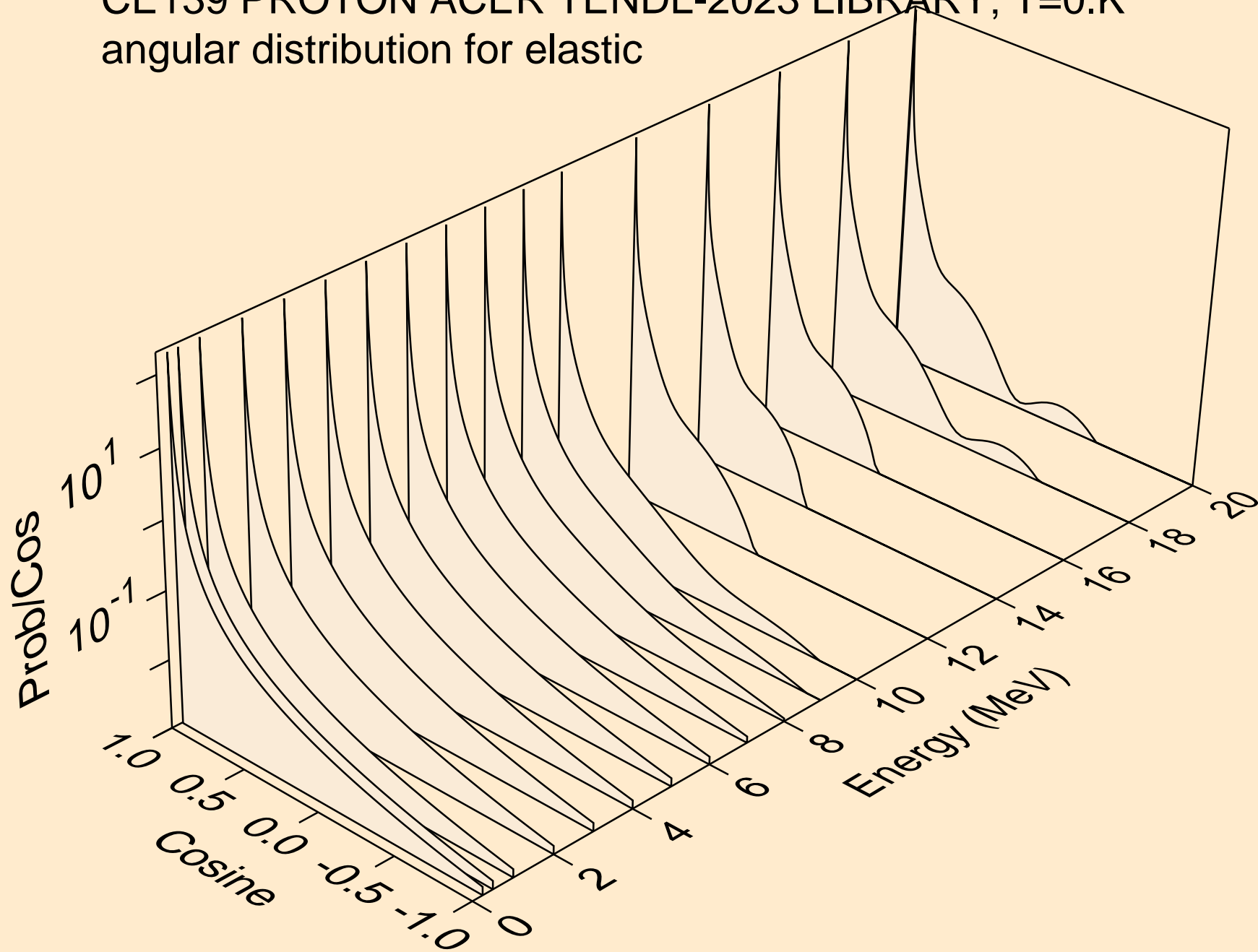


# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

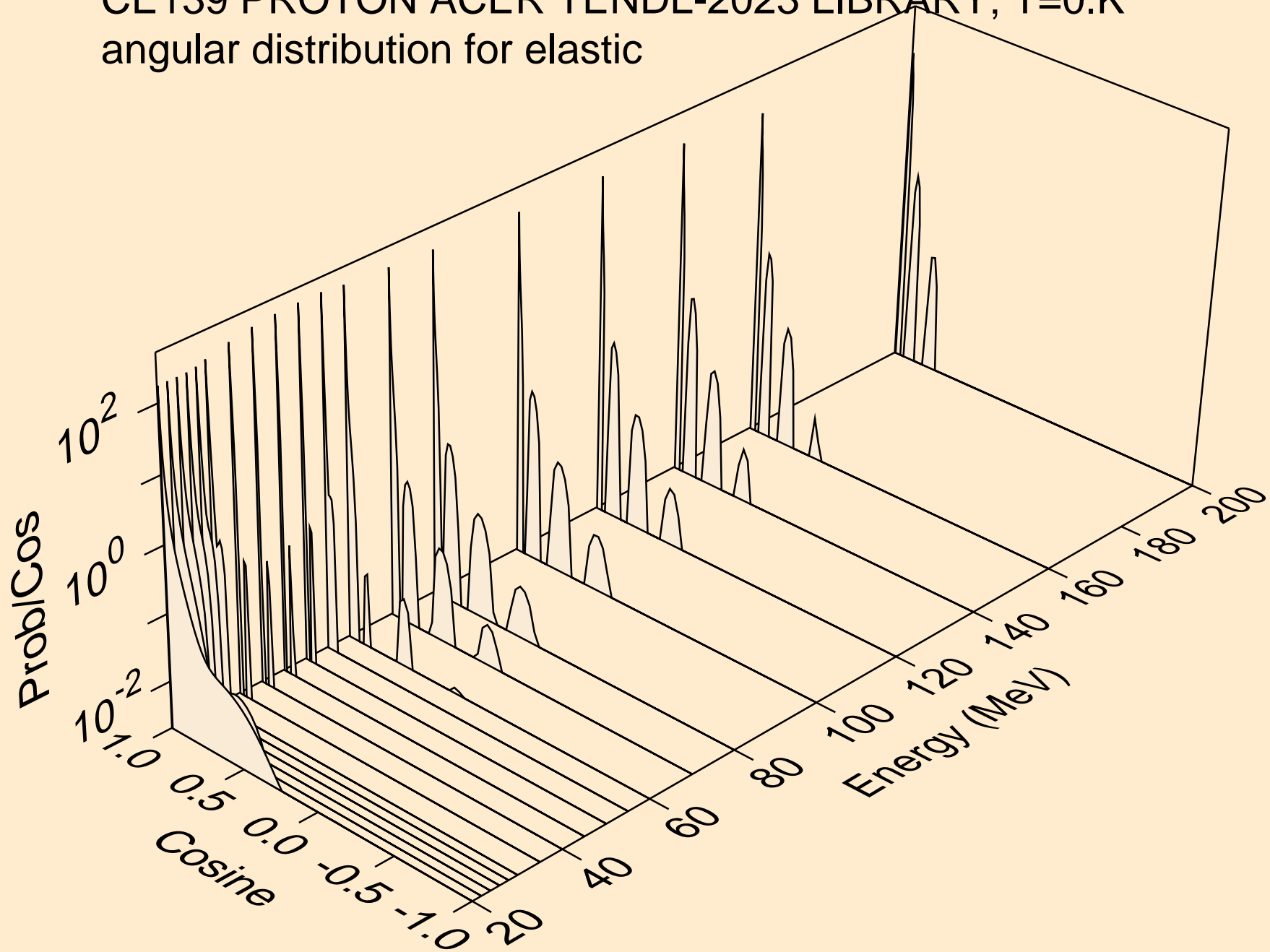


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

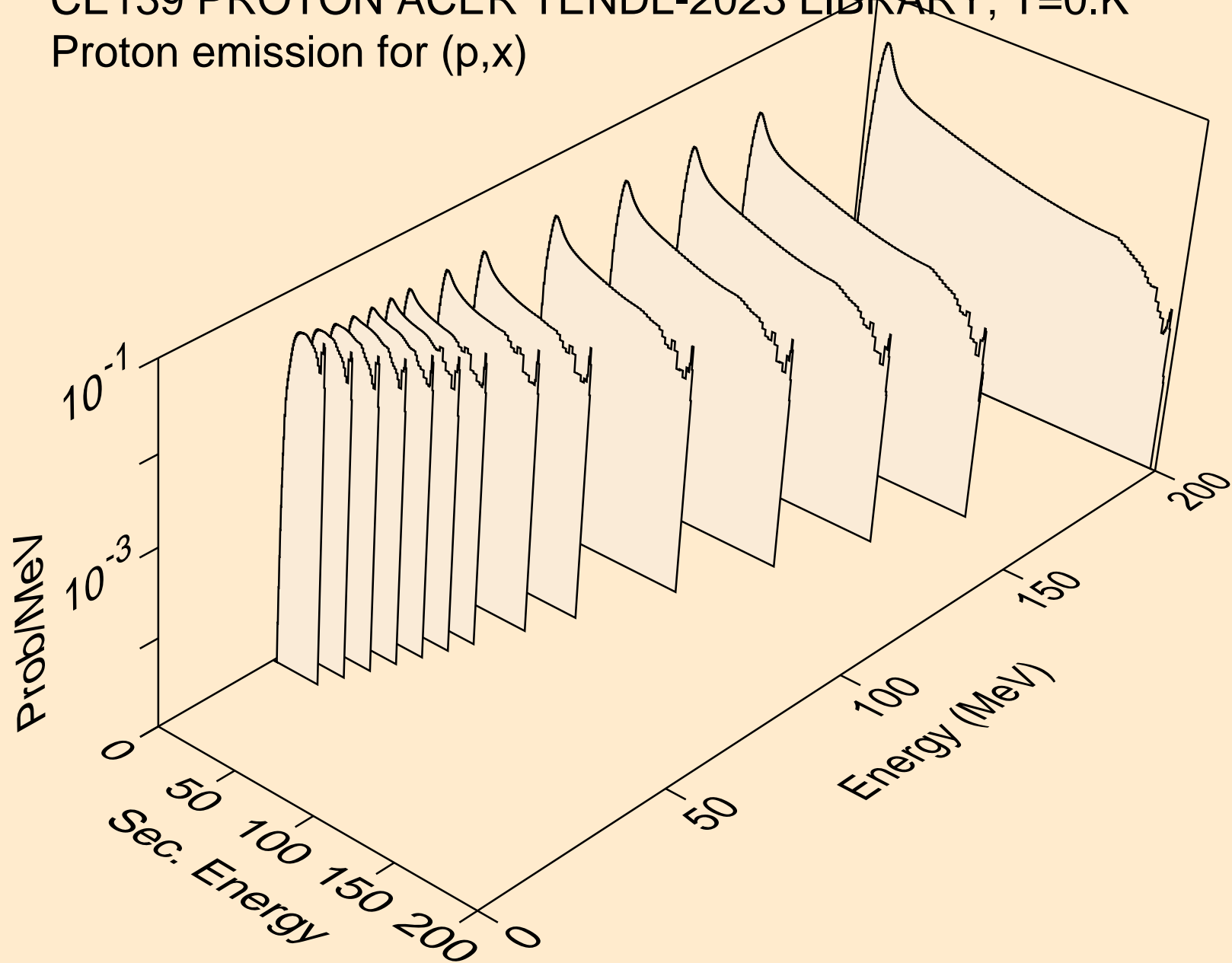




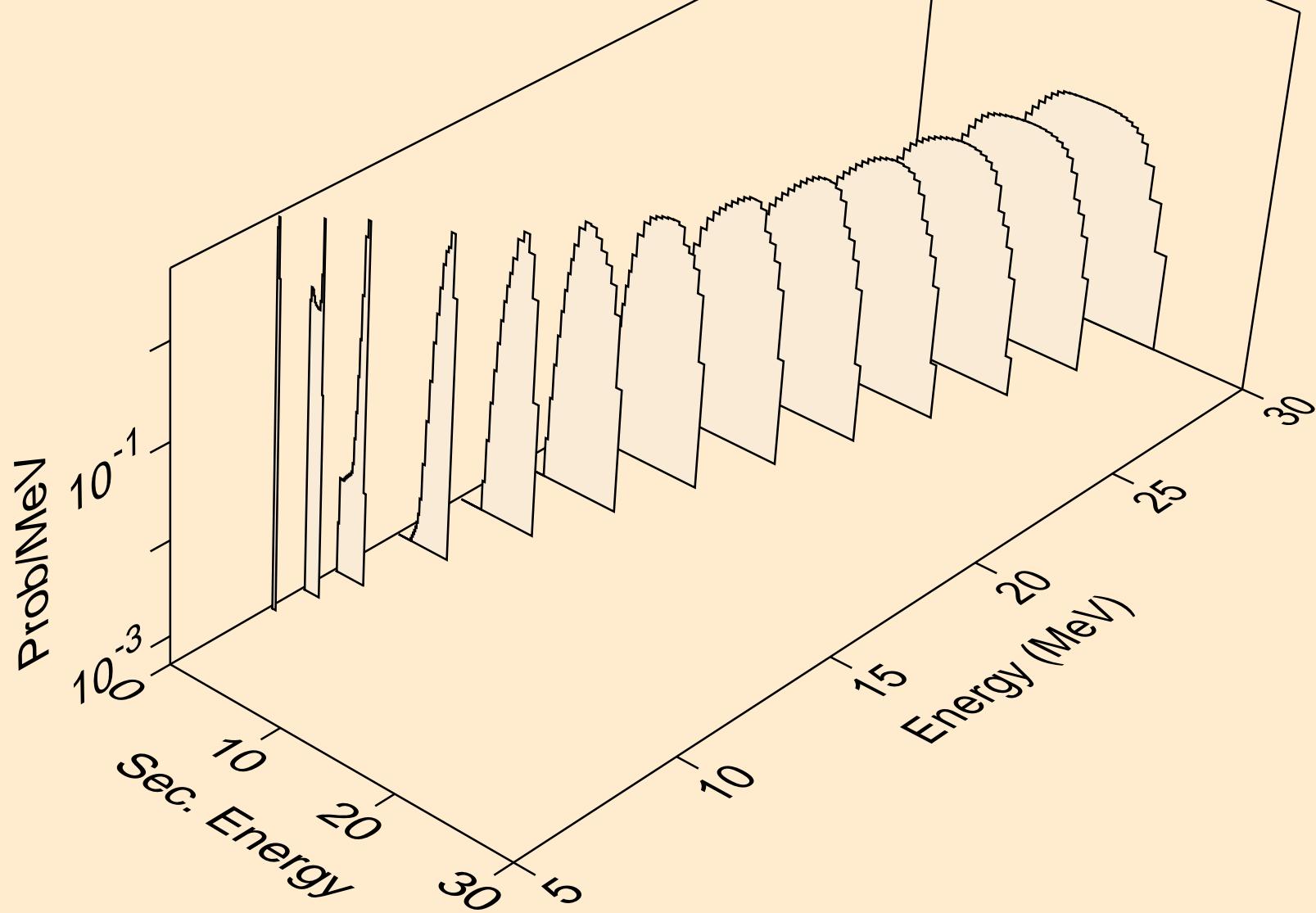
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



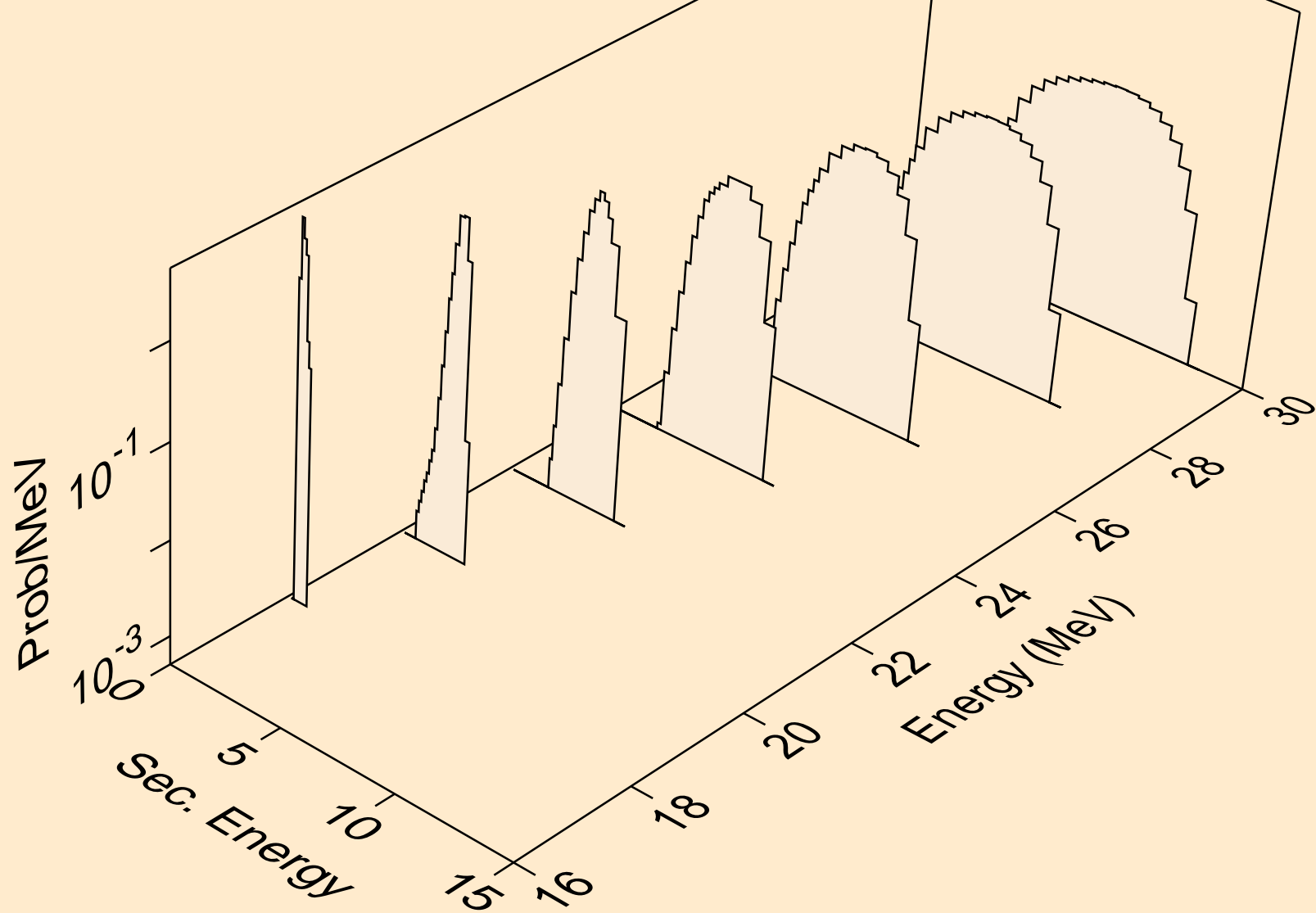
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



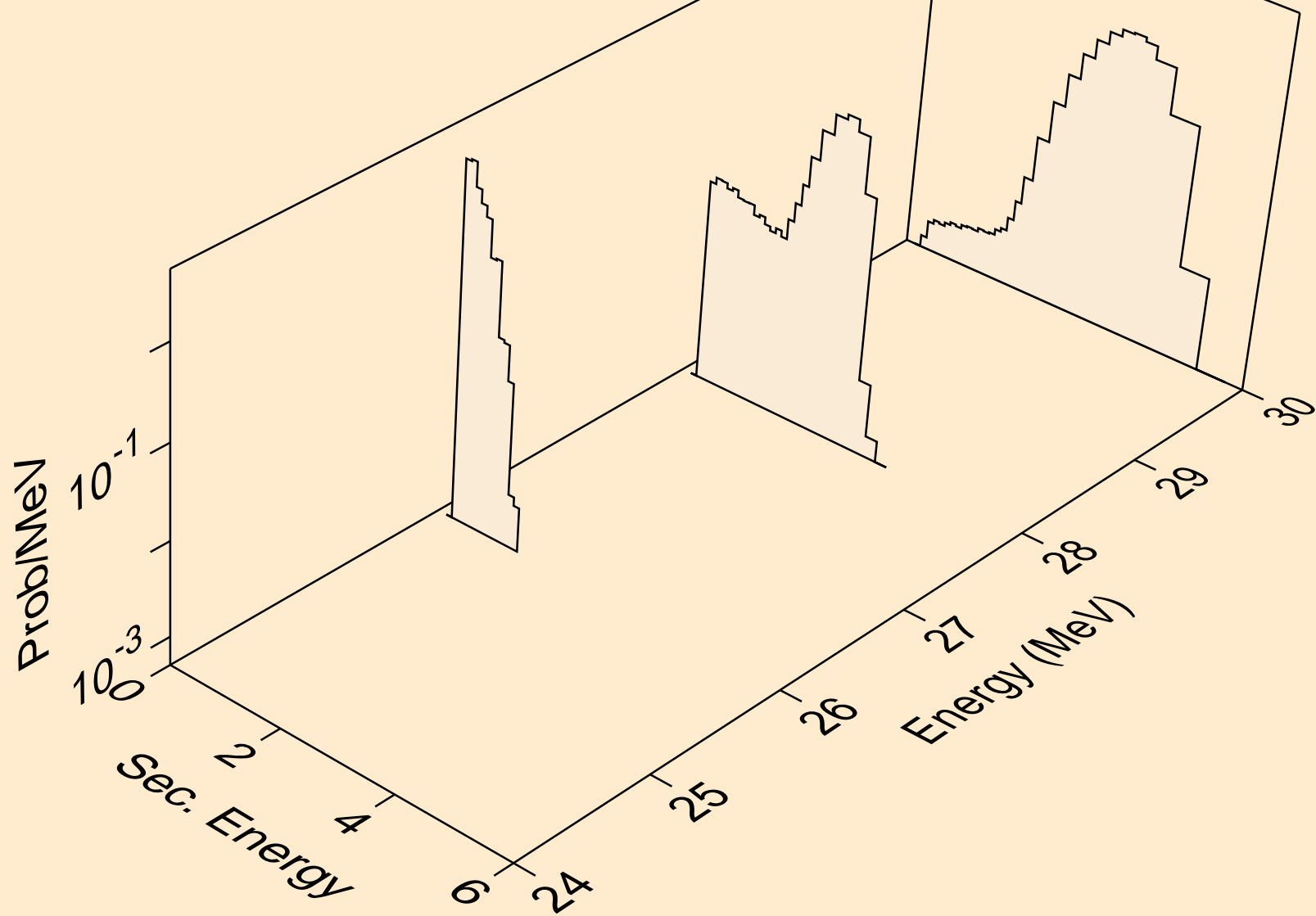
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



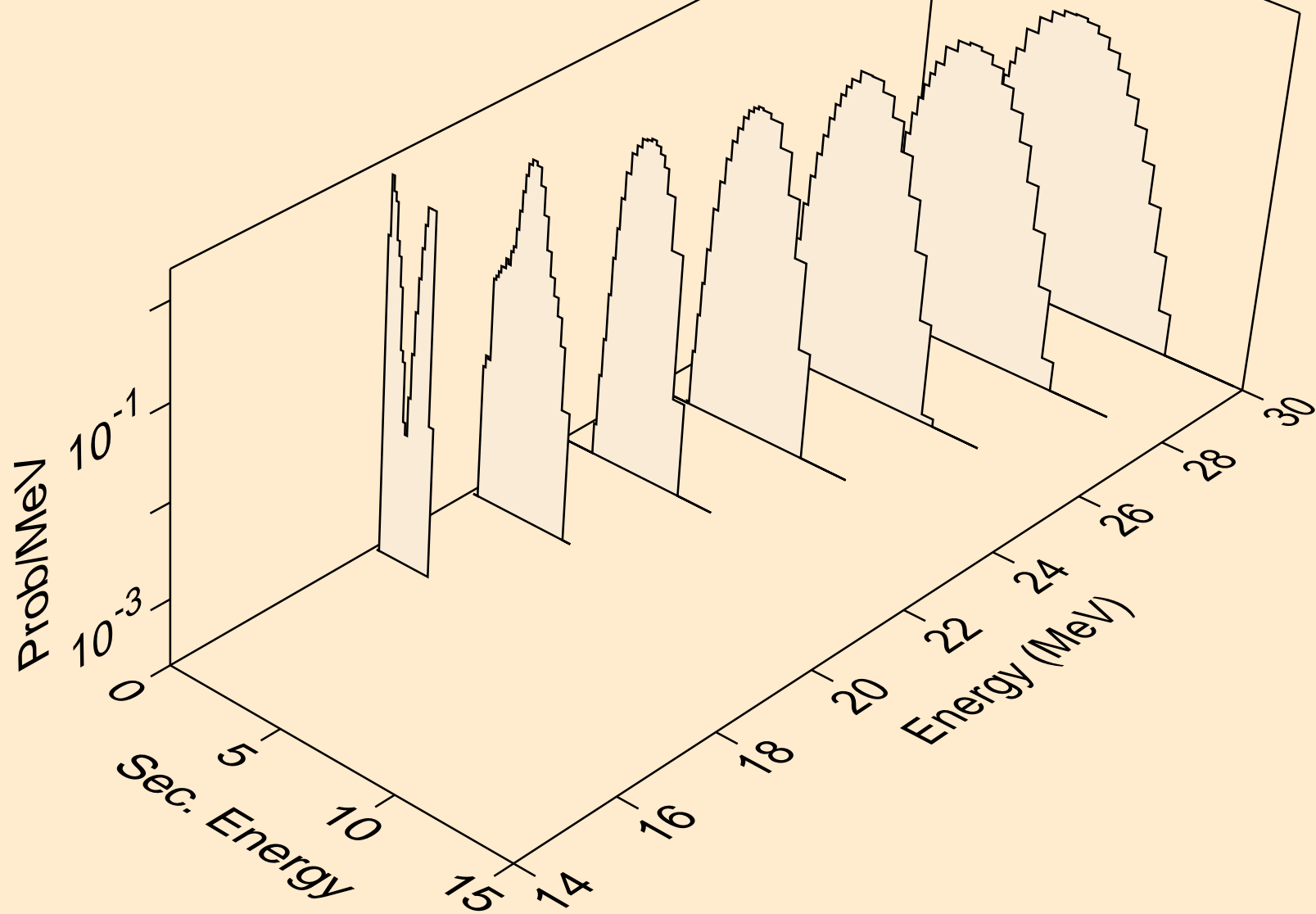
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



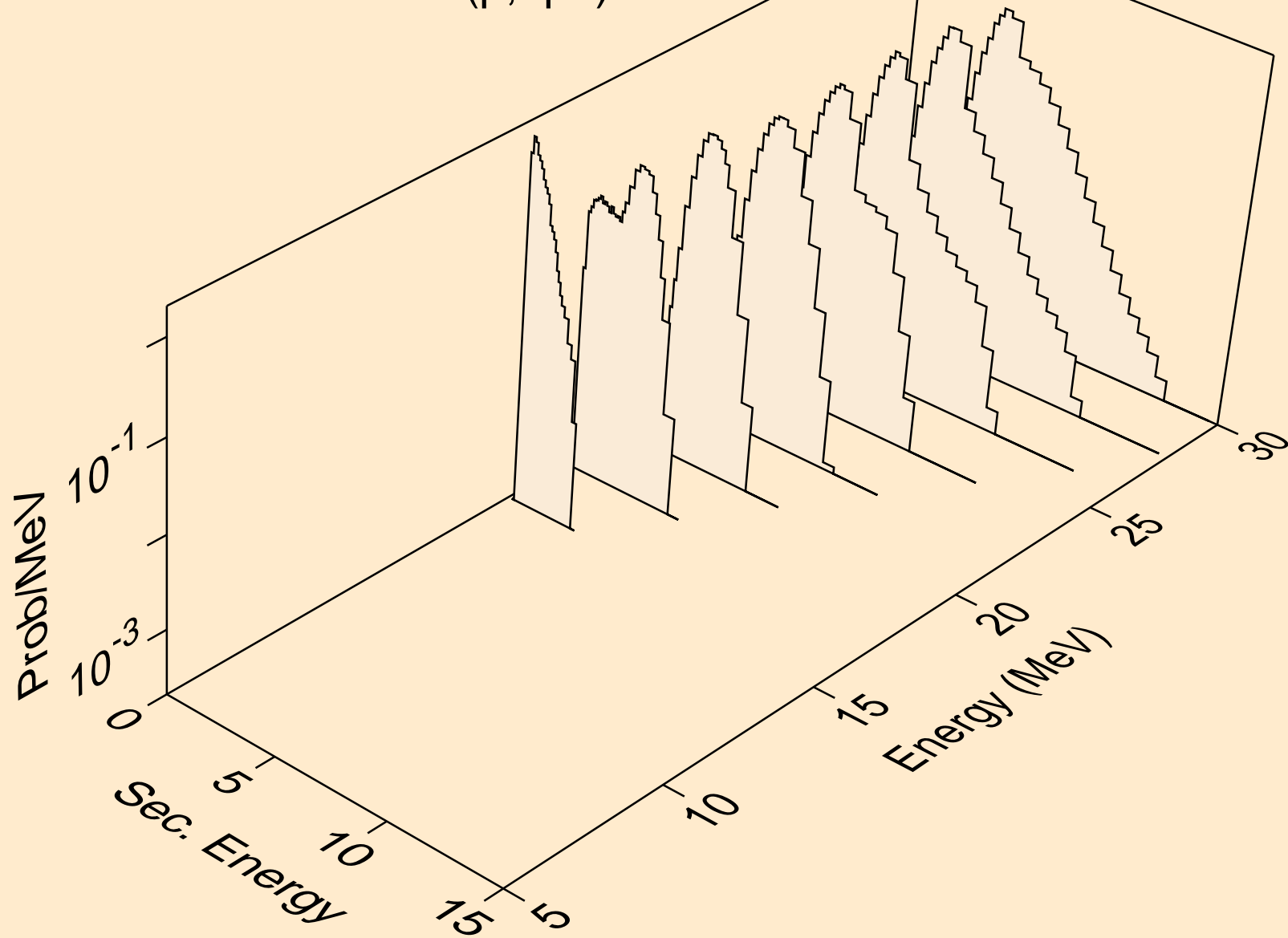
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



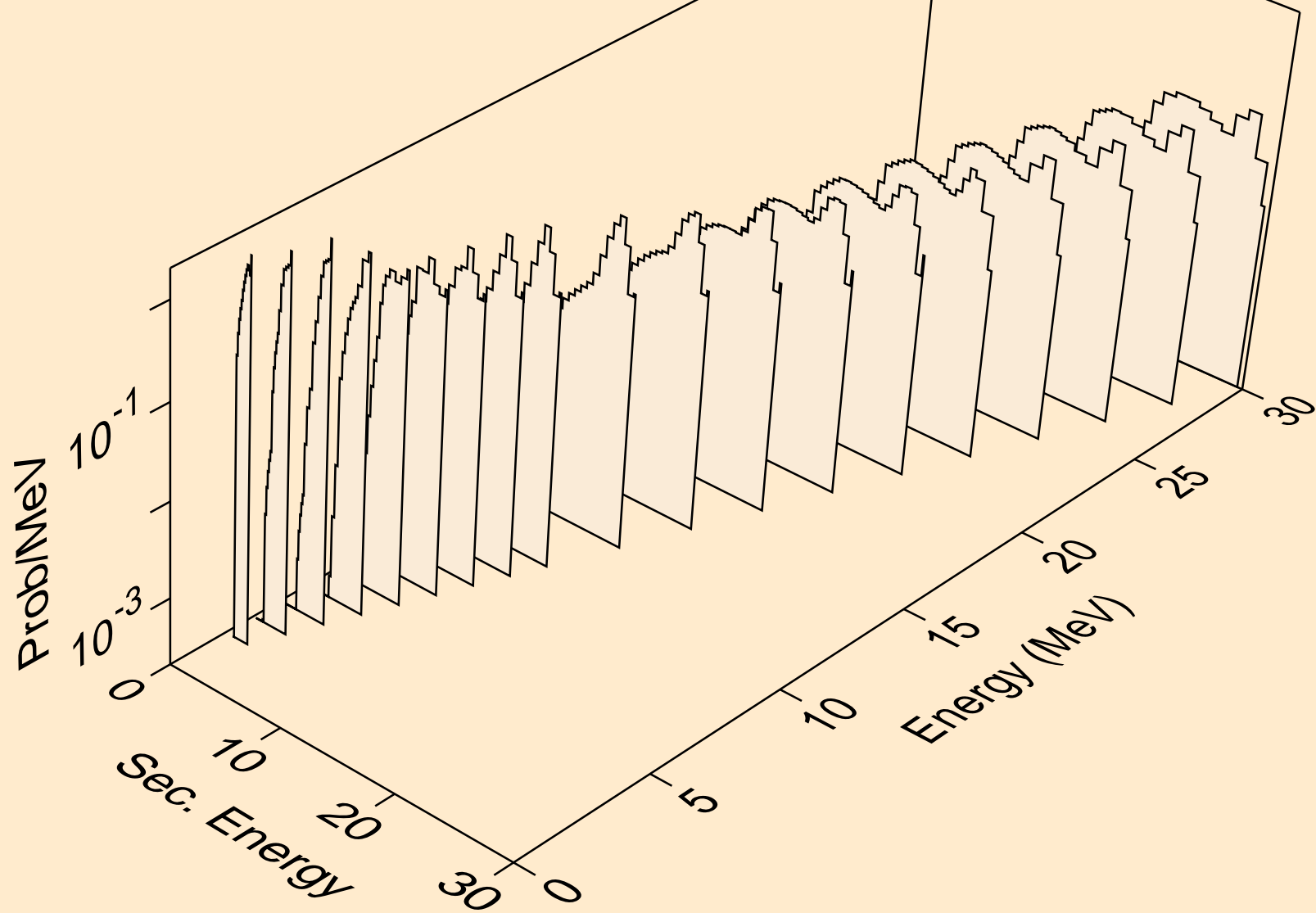
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

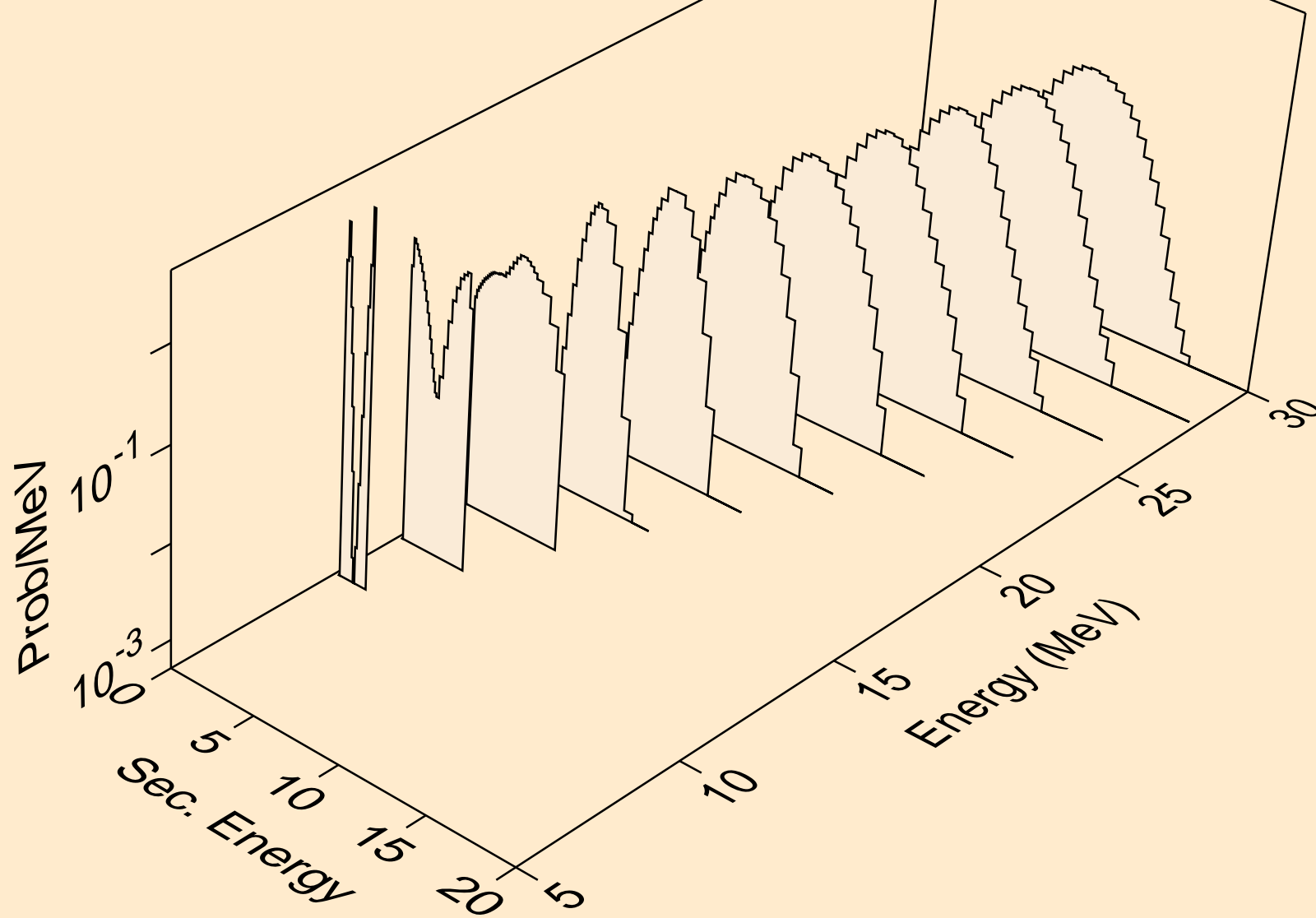


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

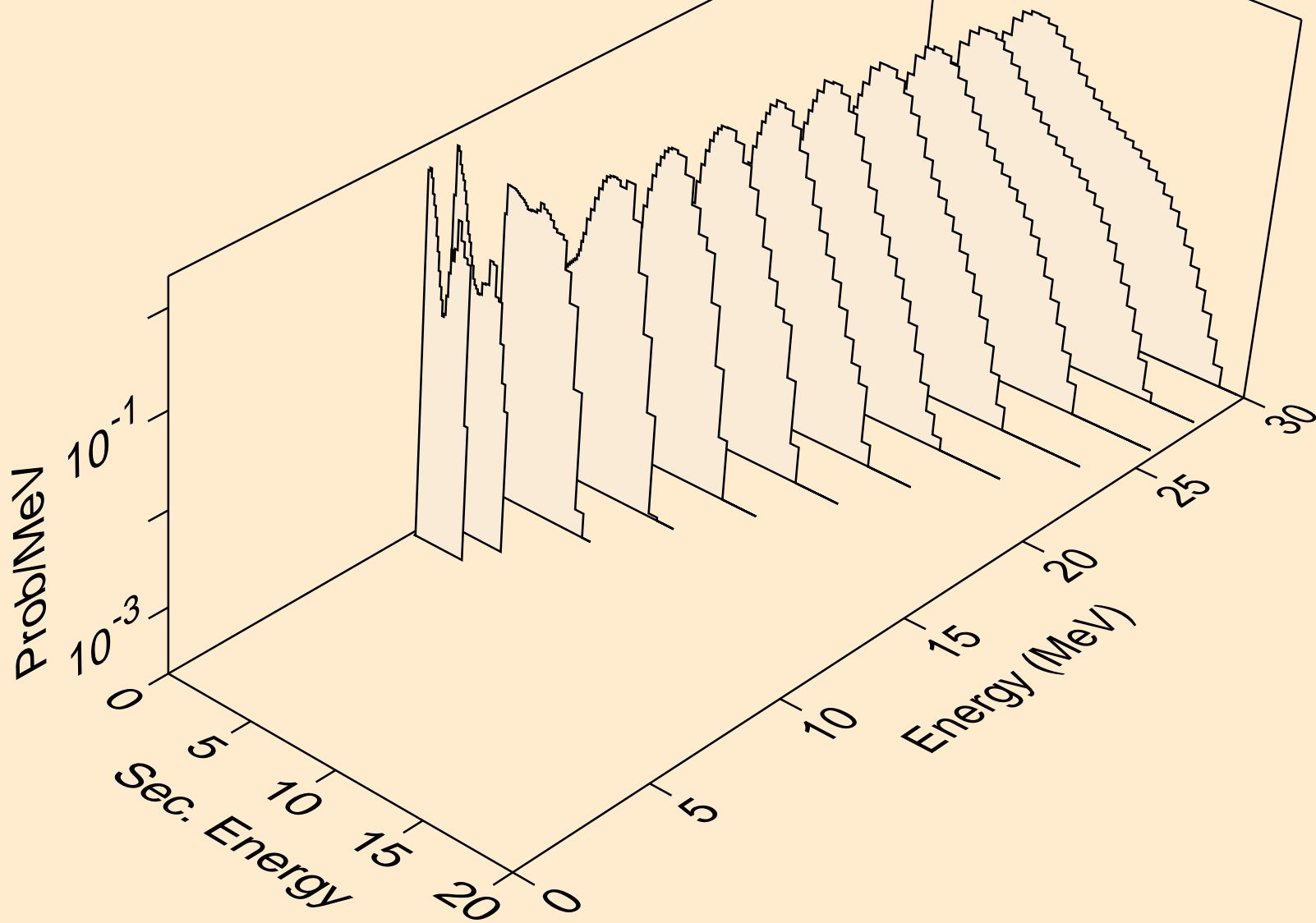




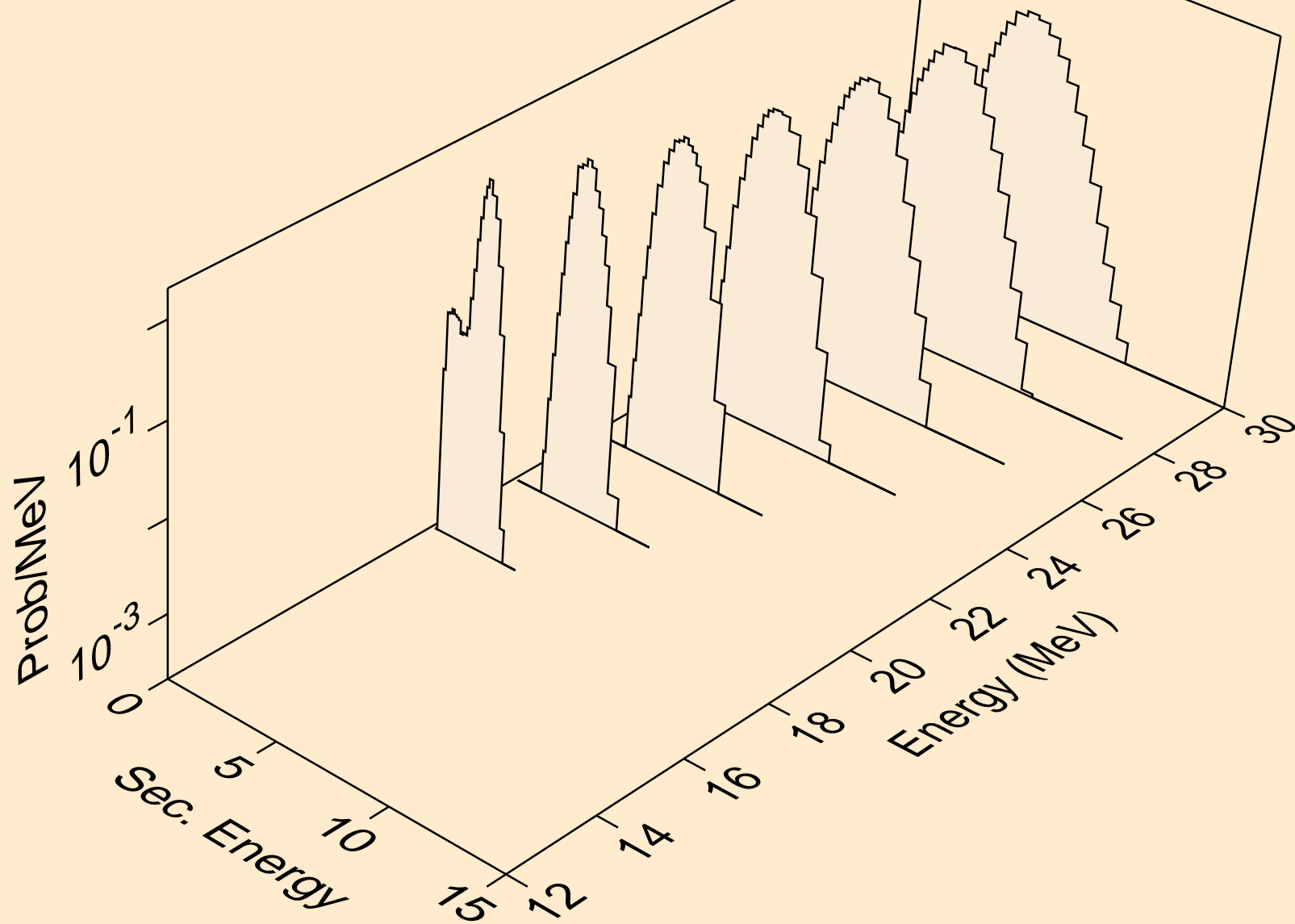
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



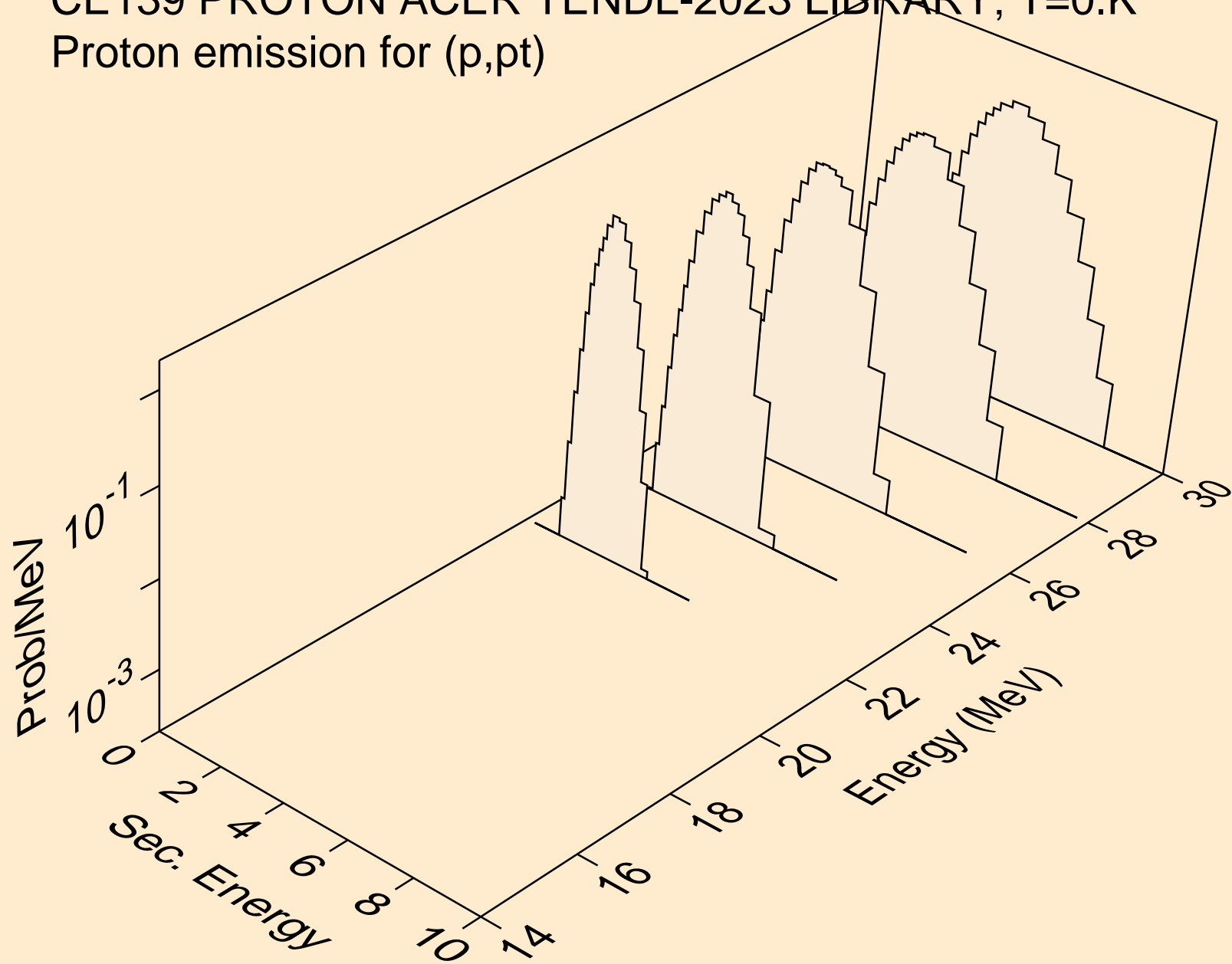
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



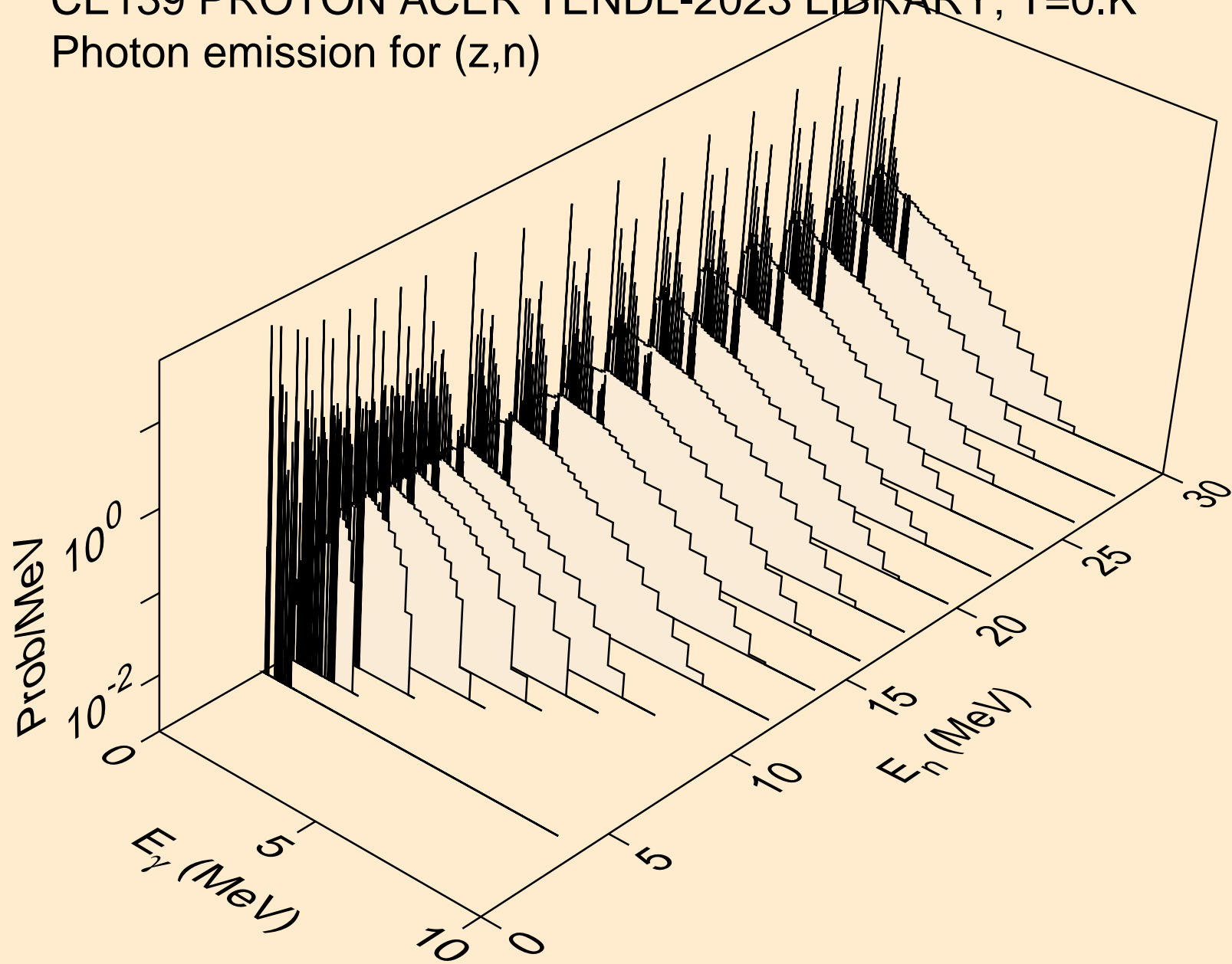
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



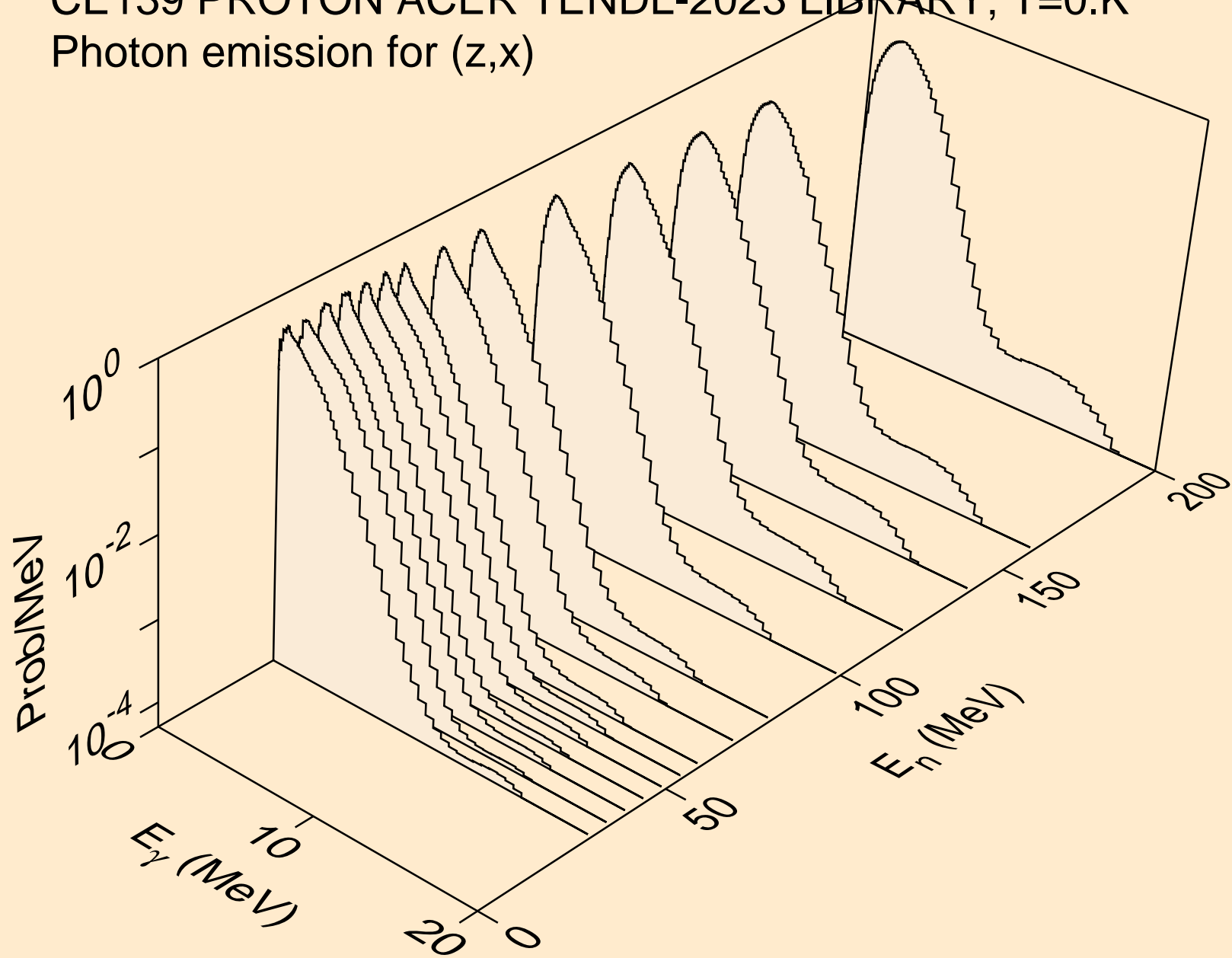
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



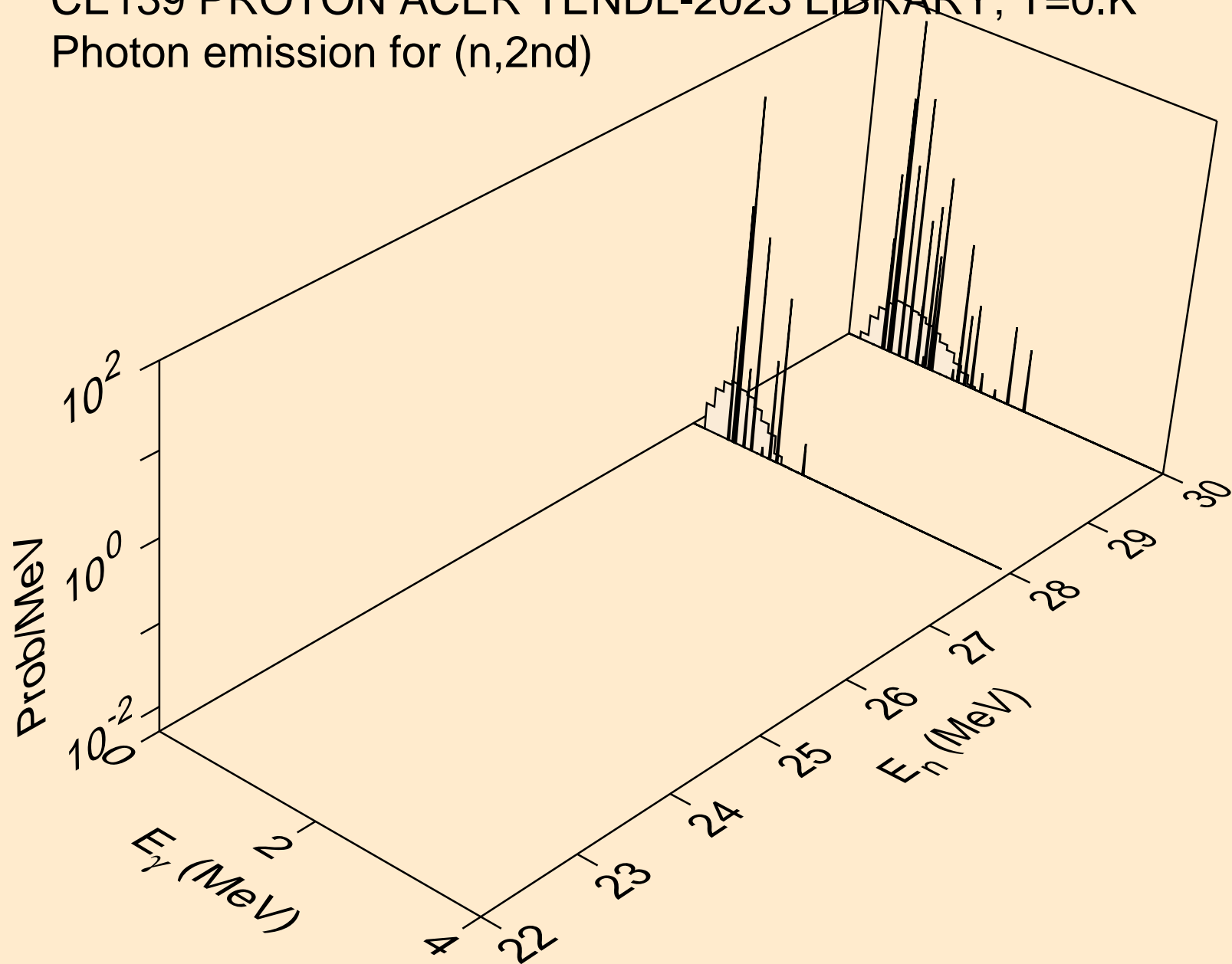
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



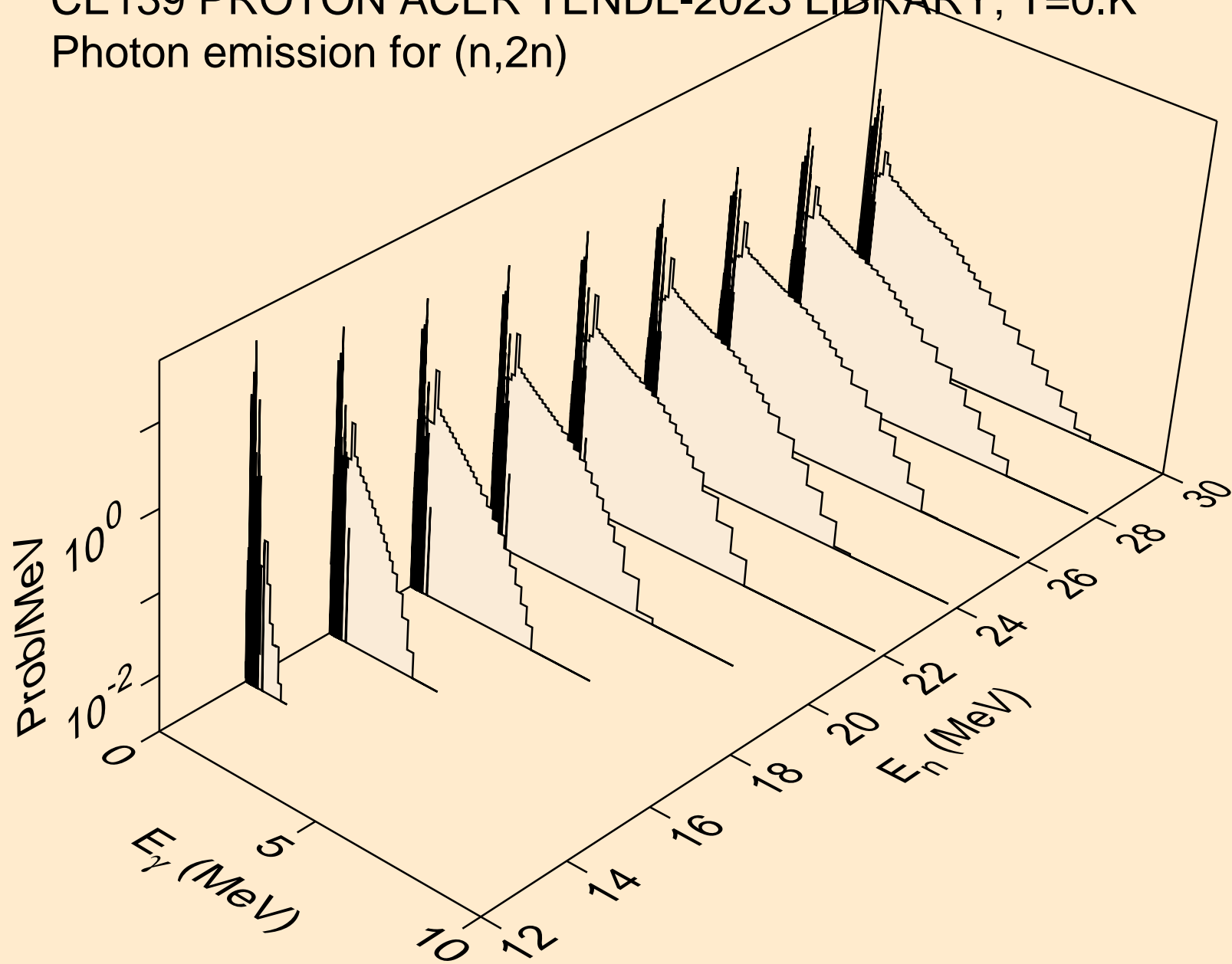
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

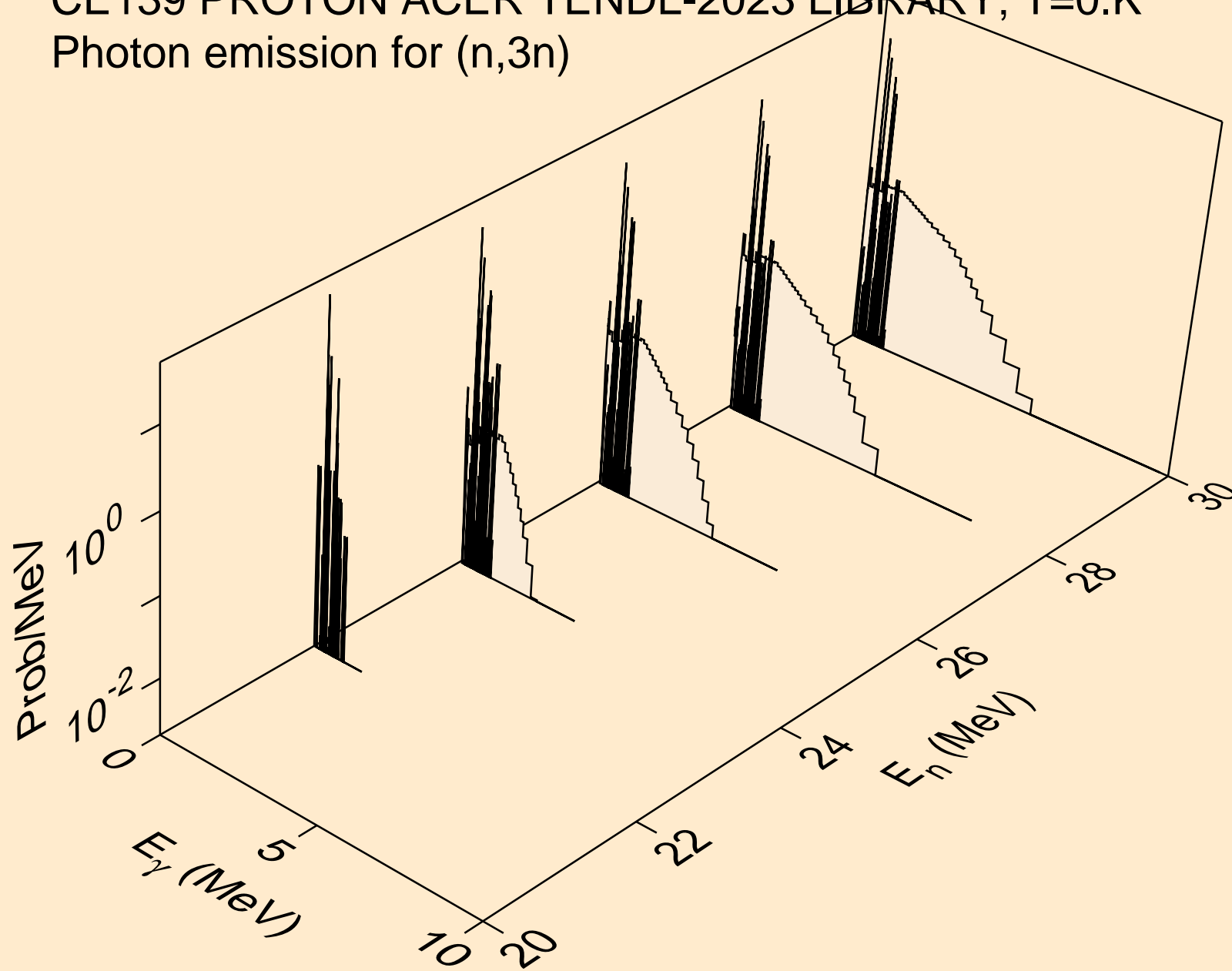


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Photon emission for (n,2n)

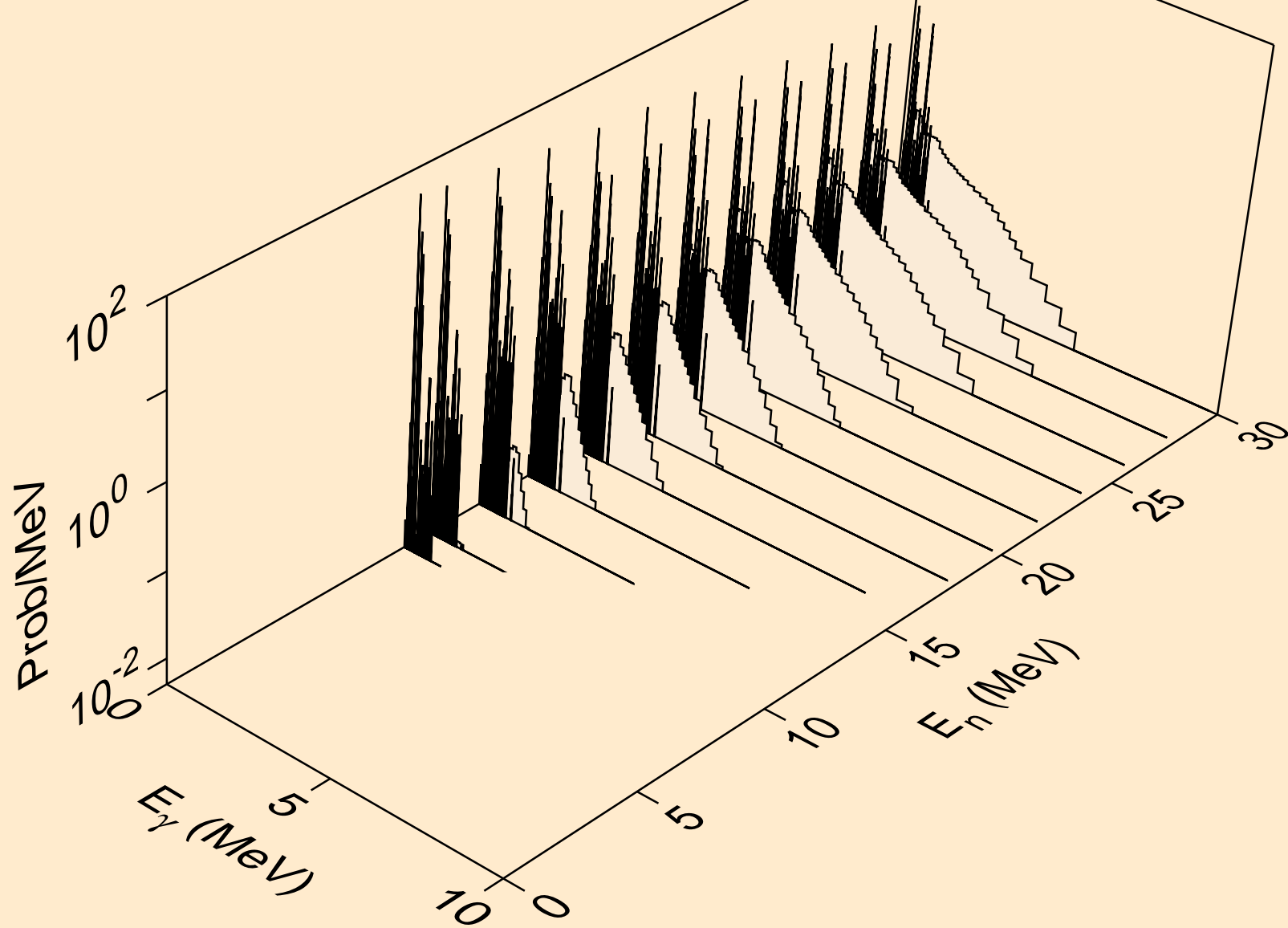




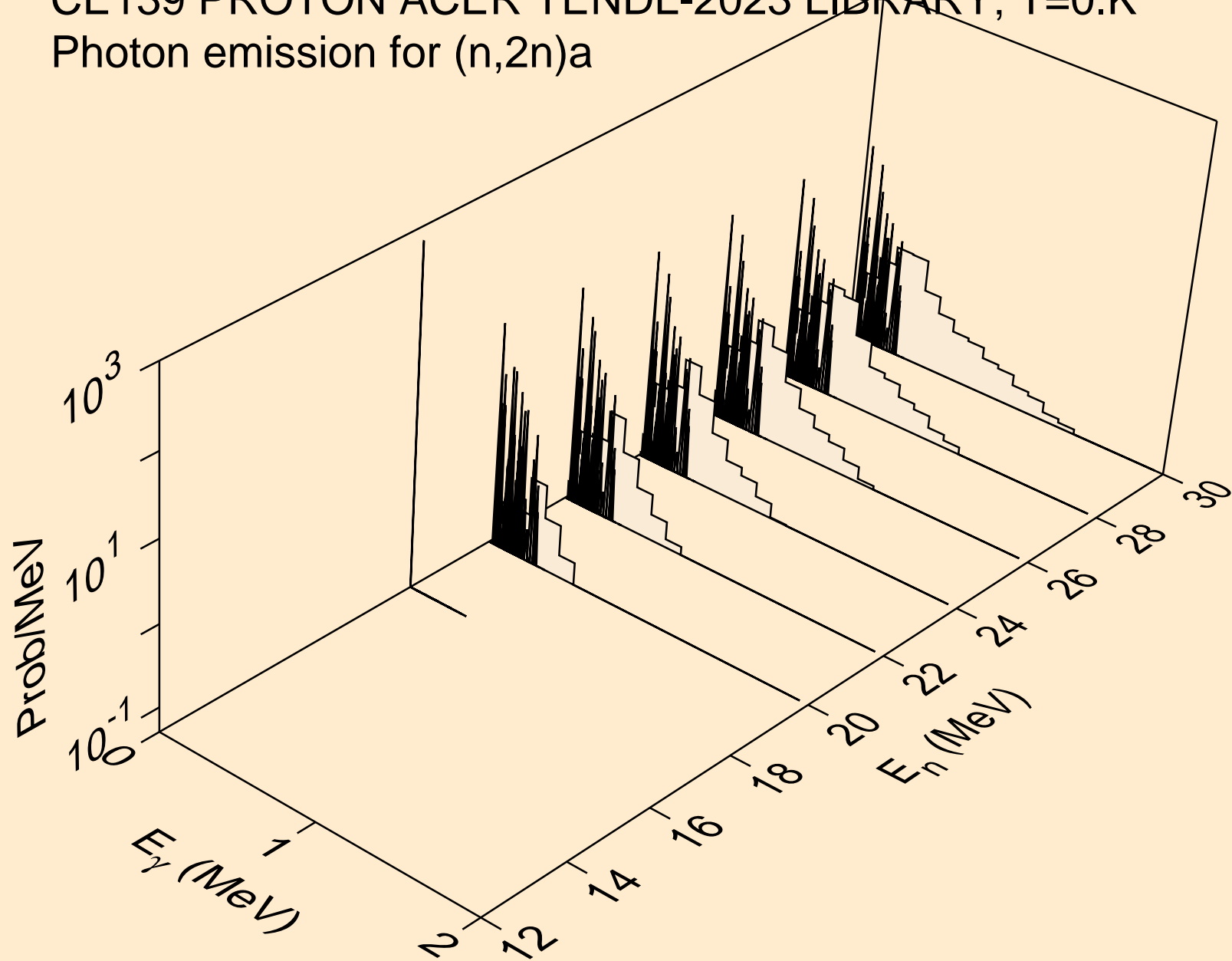
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Photon emission for (n,3n)



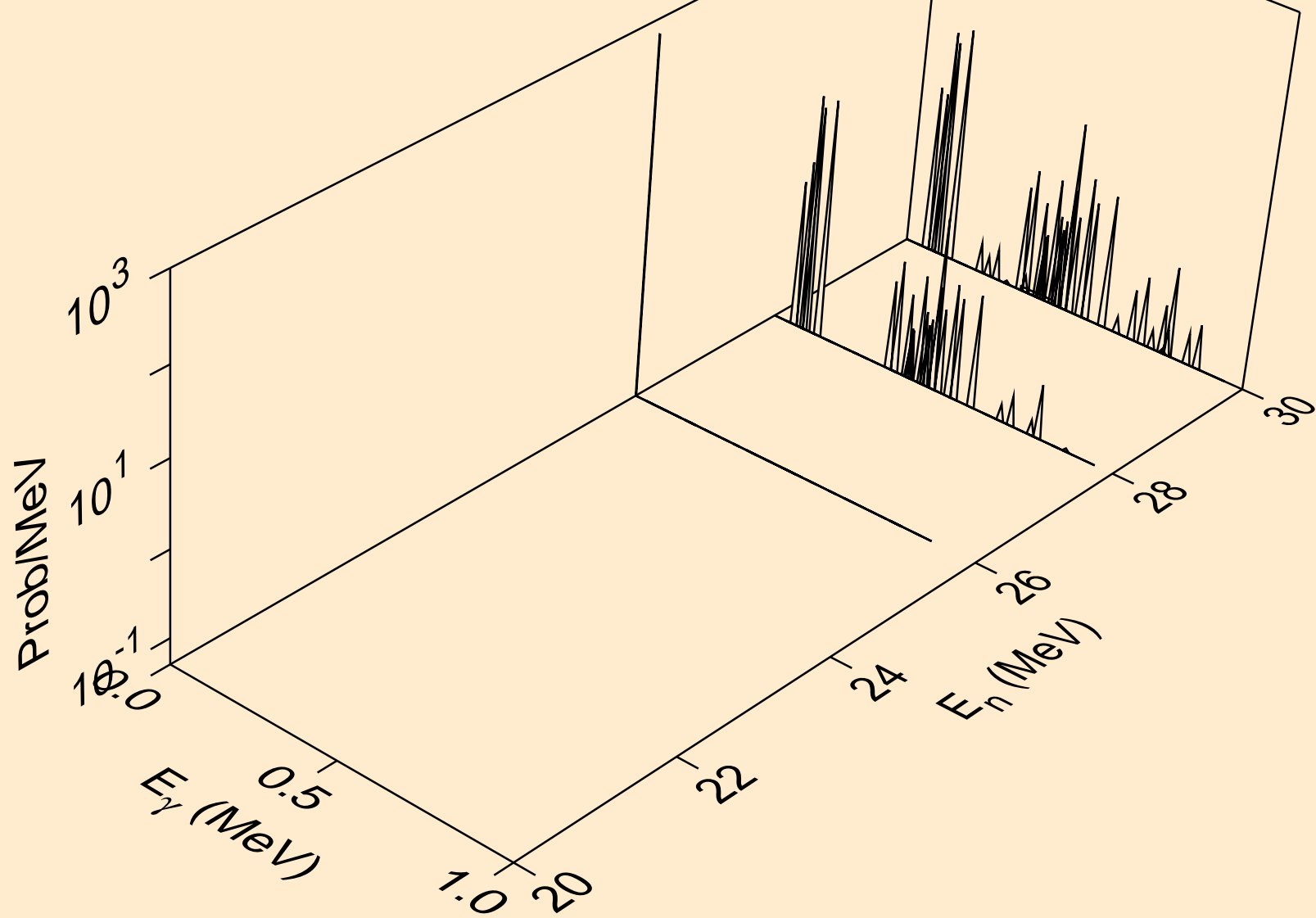
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



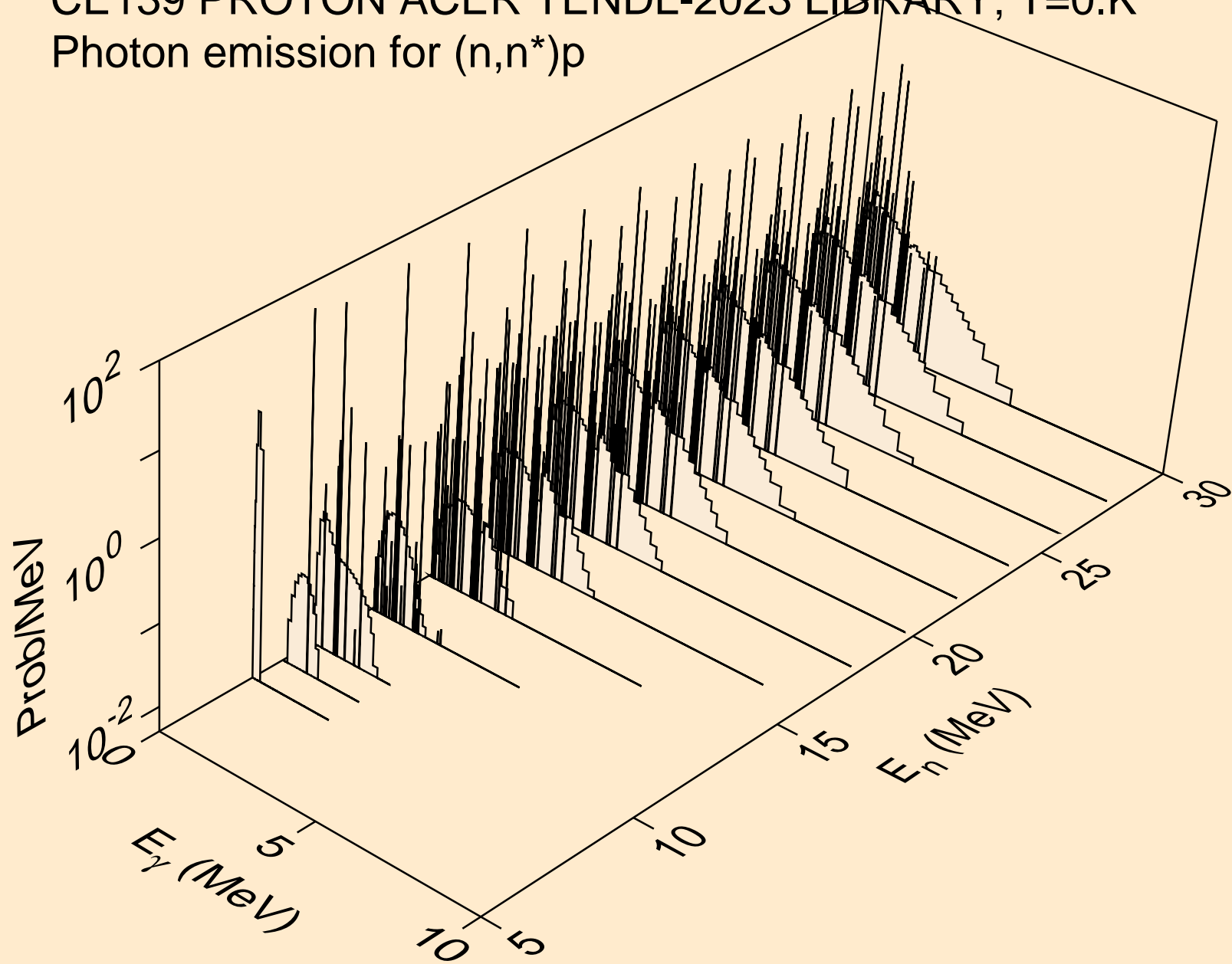
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Photon emission for (n,2n)a



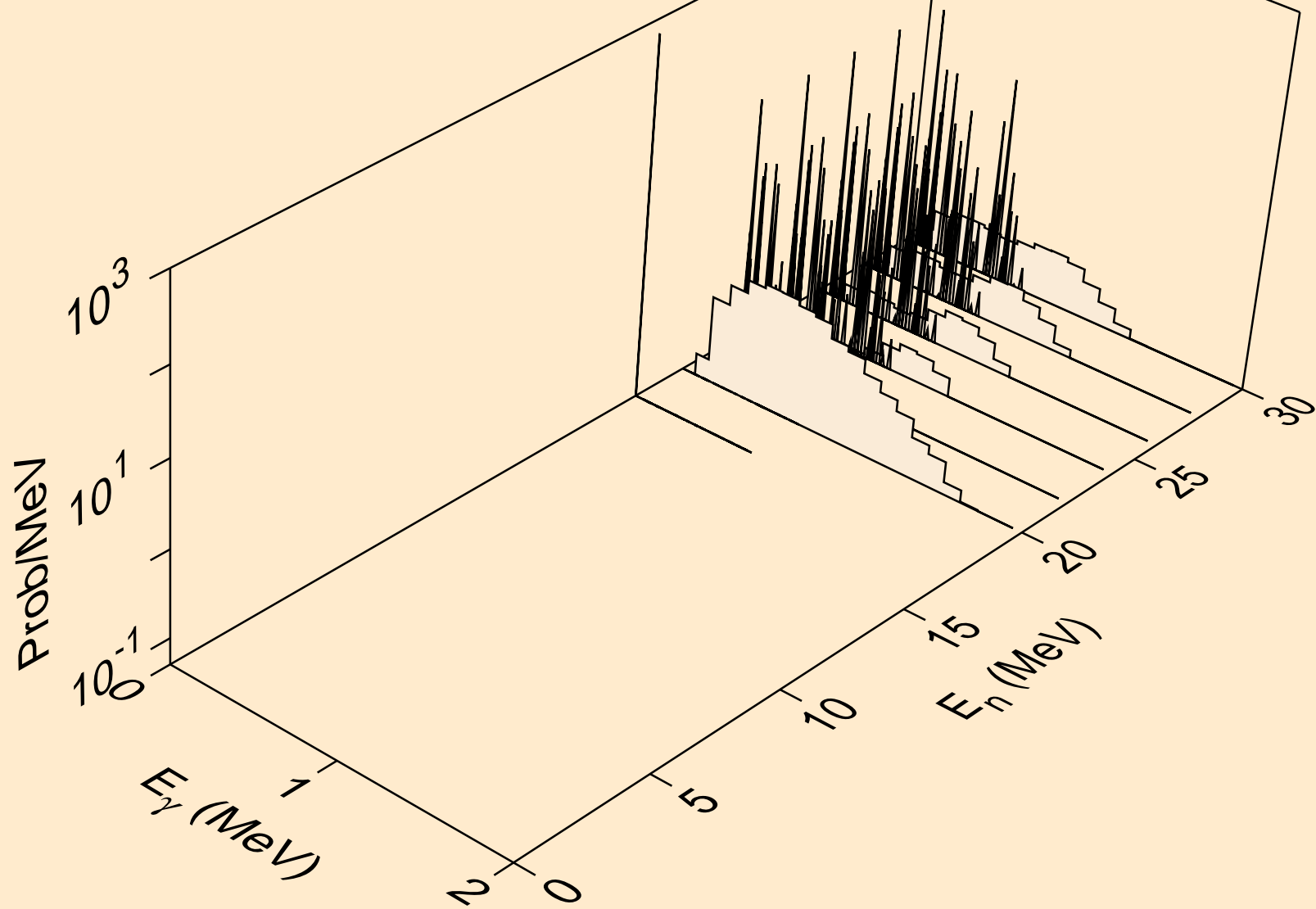
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Photon emission for (n,3n)a



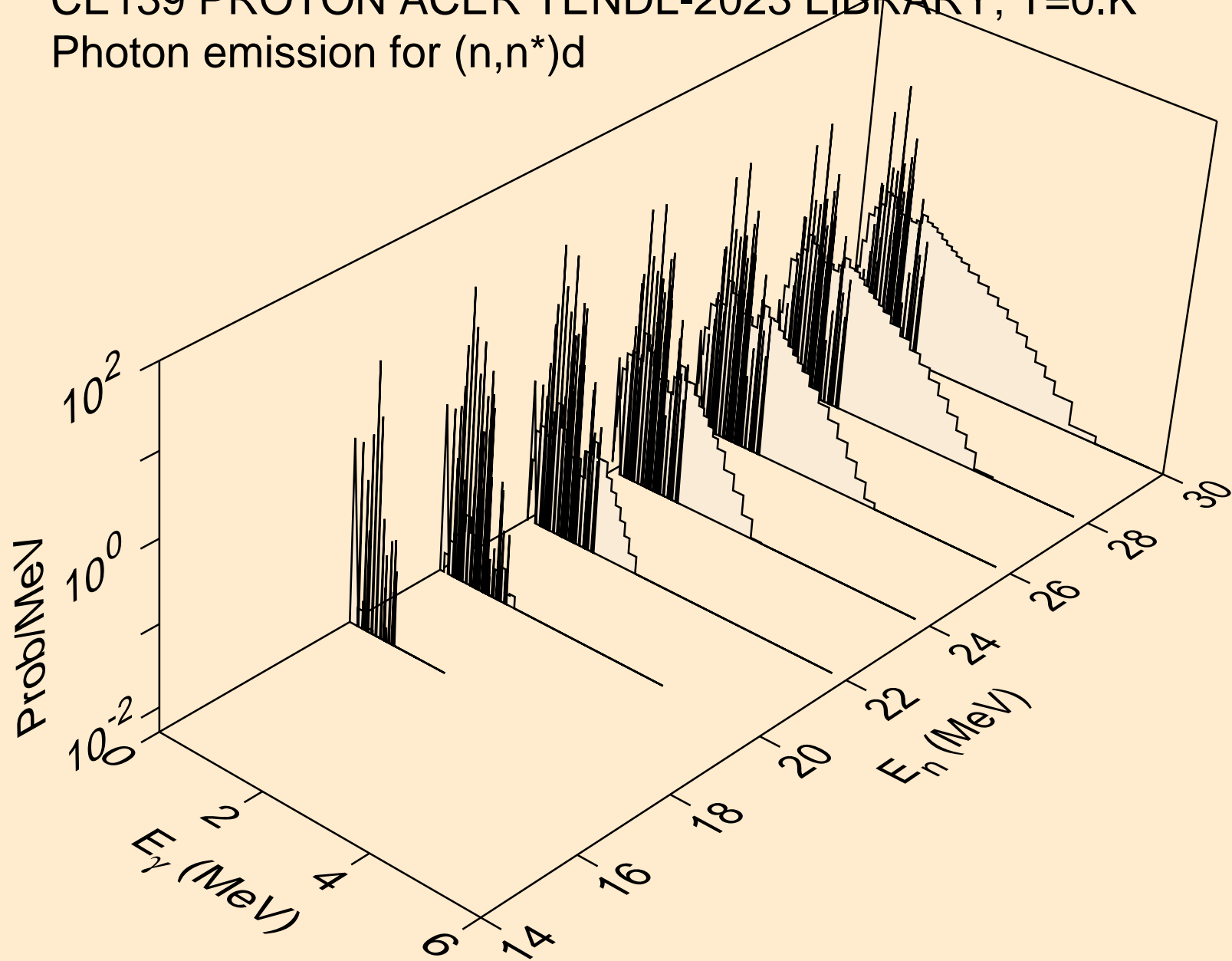
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



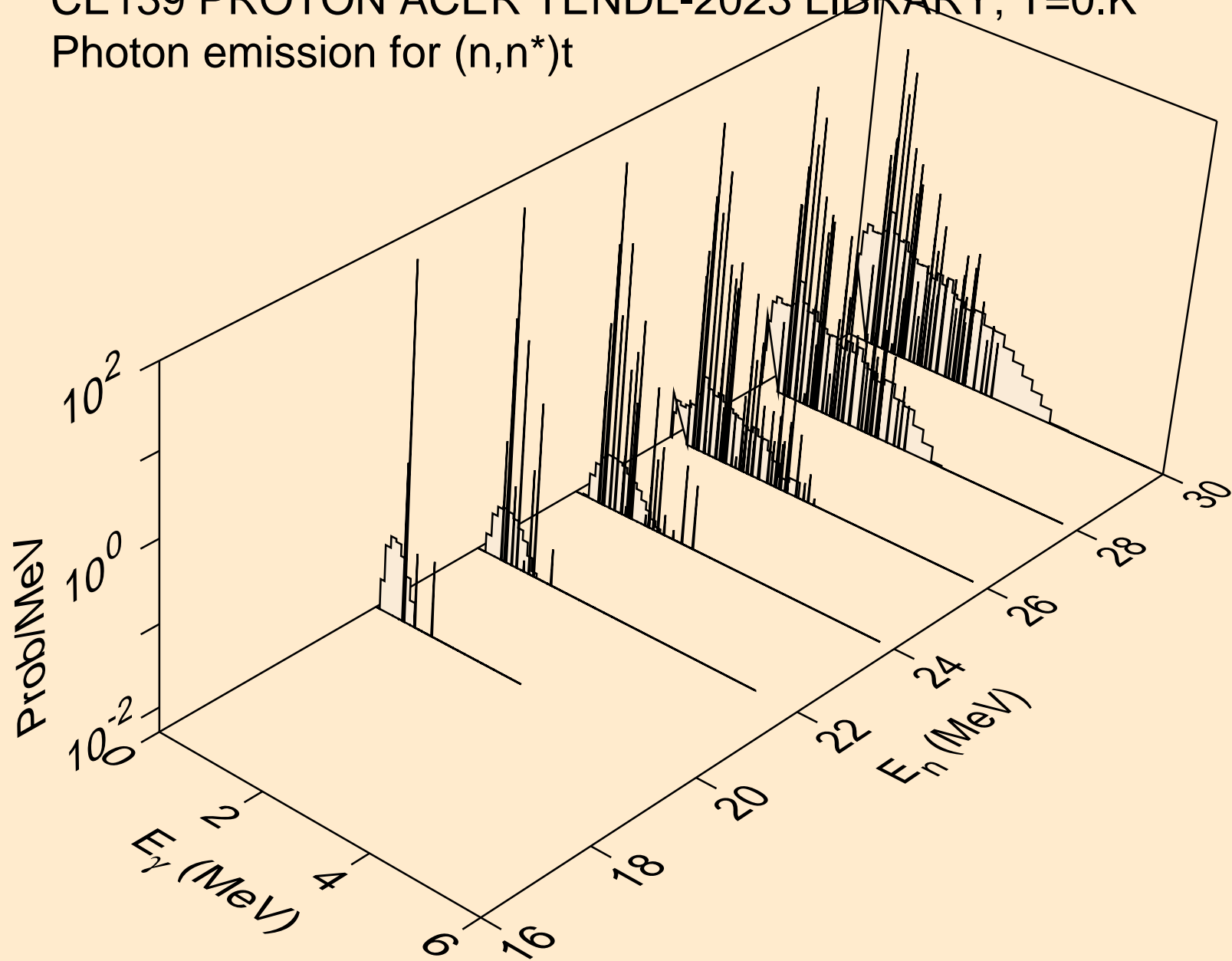
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



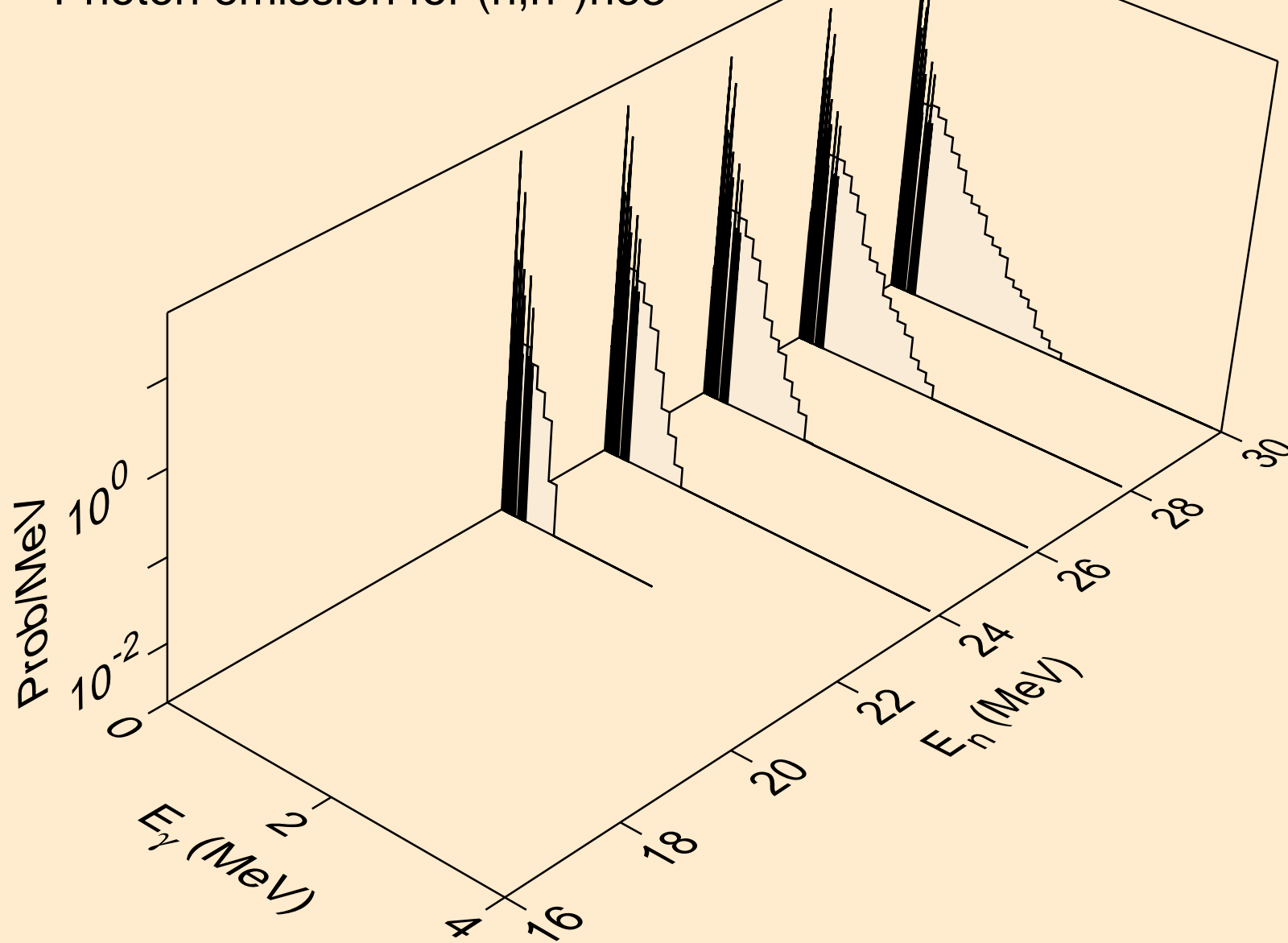
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Photon emission for (n,n\*)t



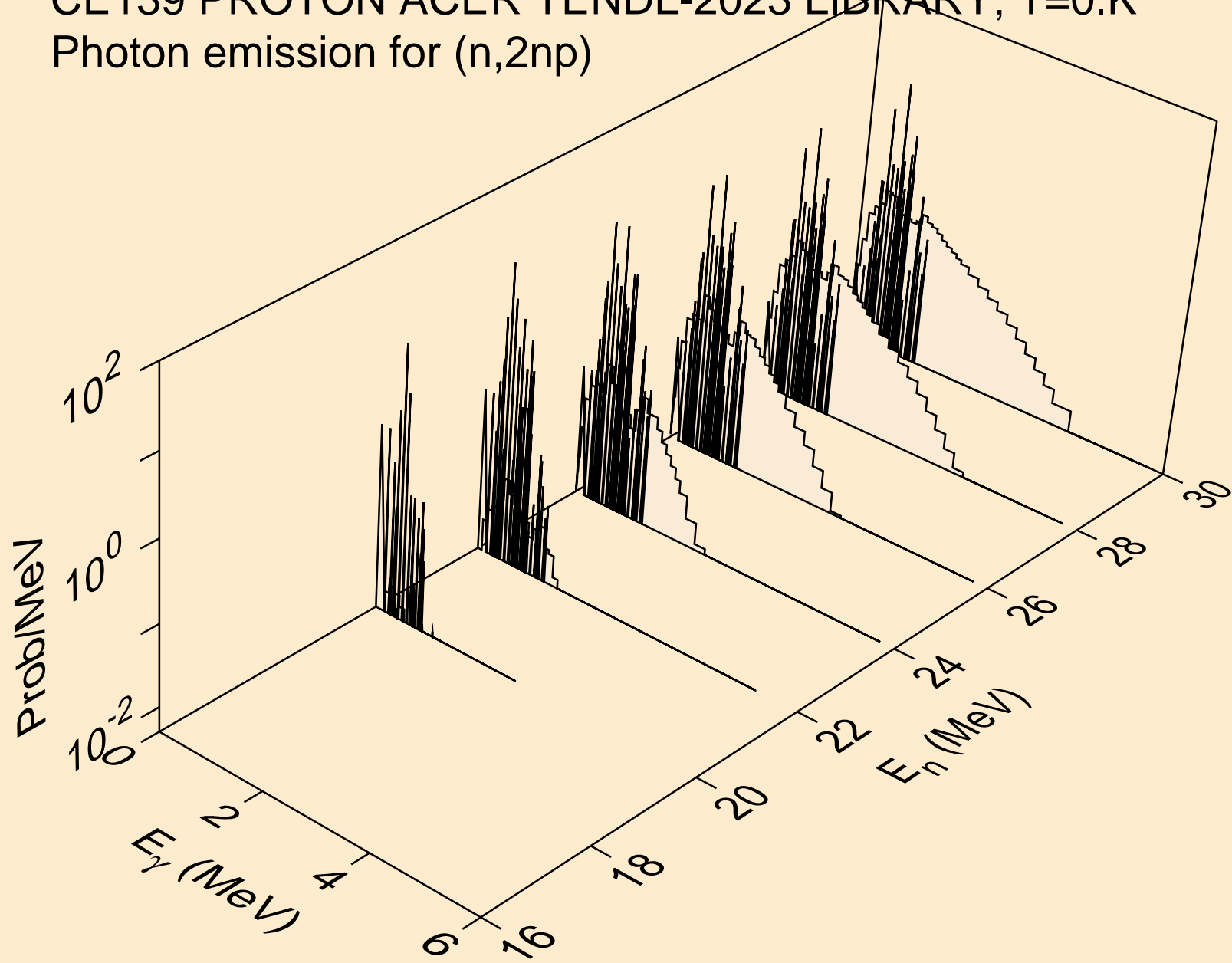


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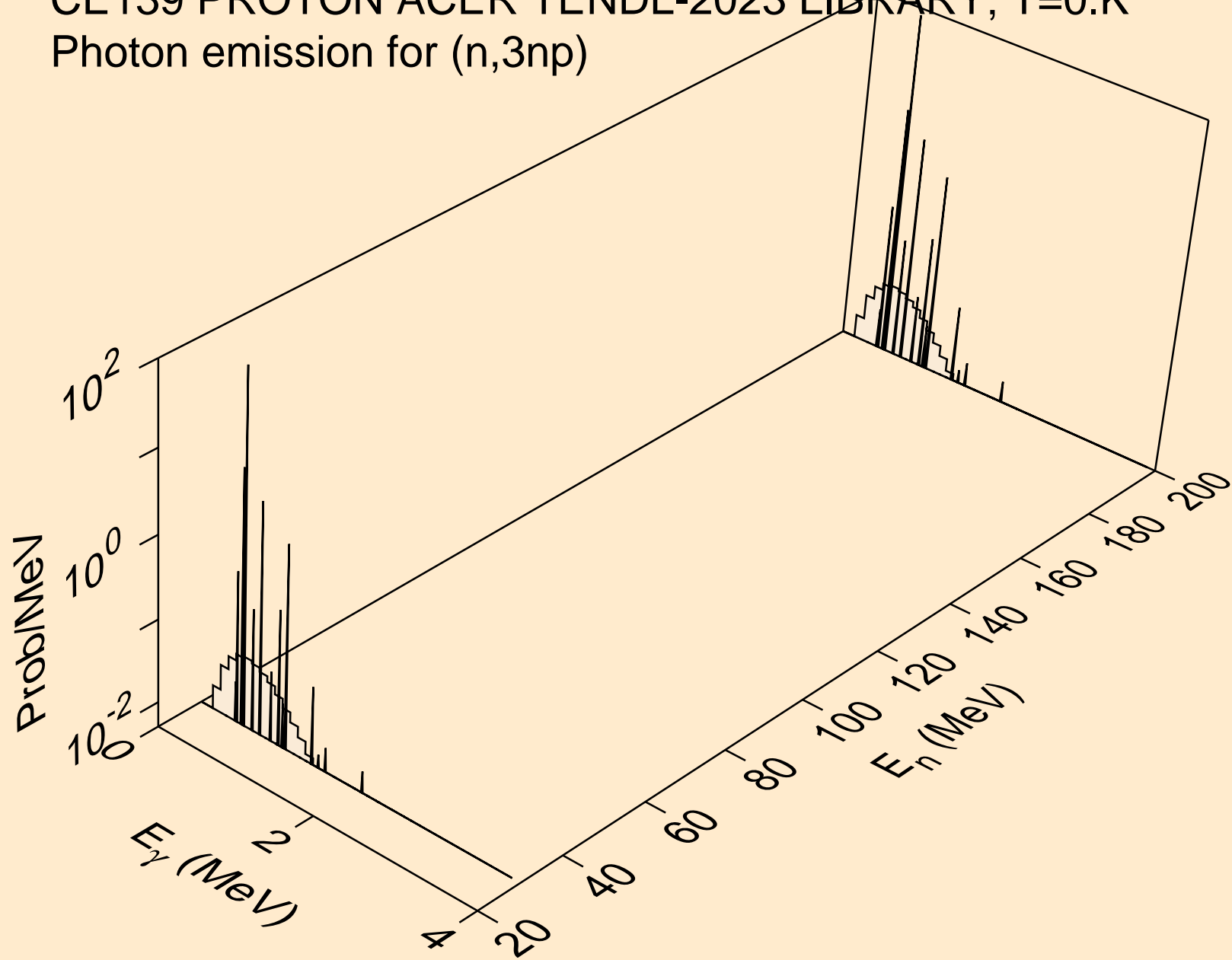
Photon emission for (n,n\*)he3



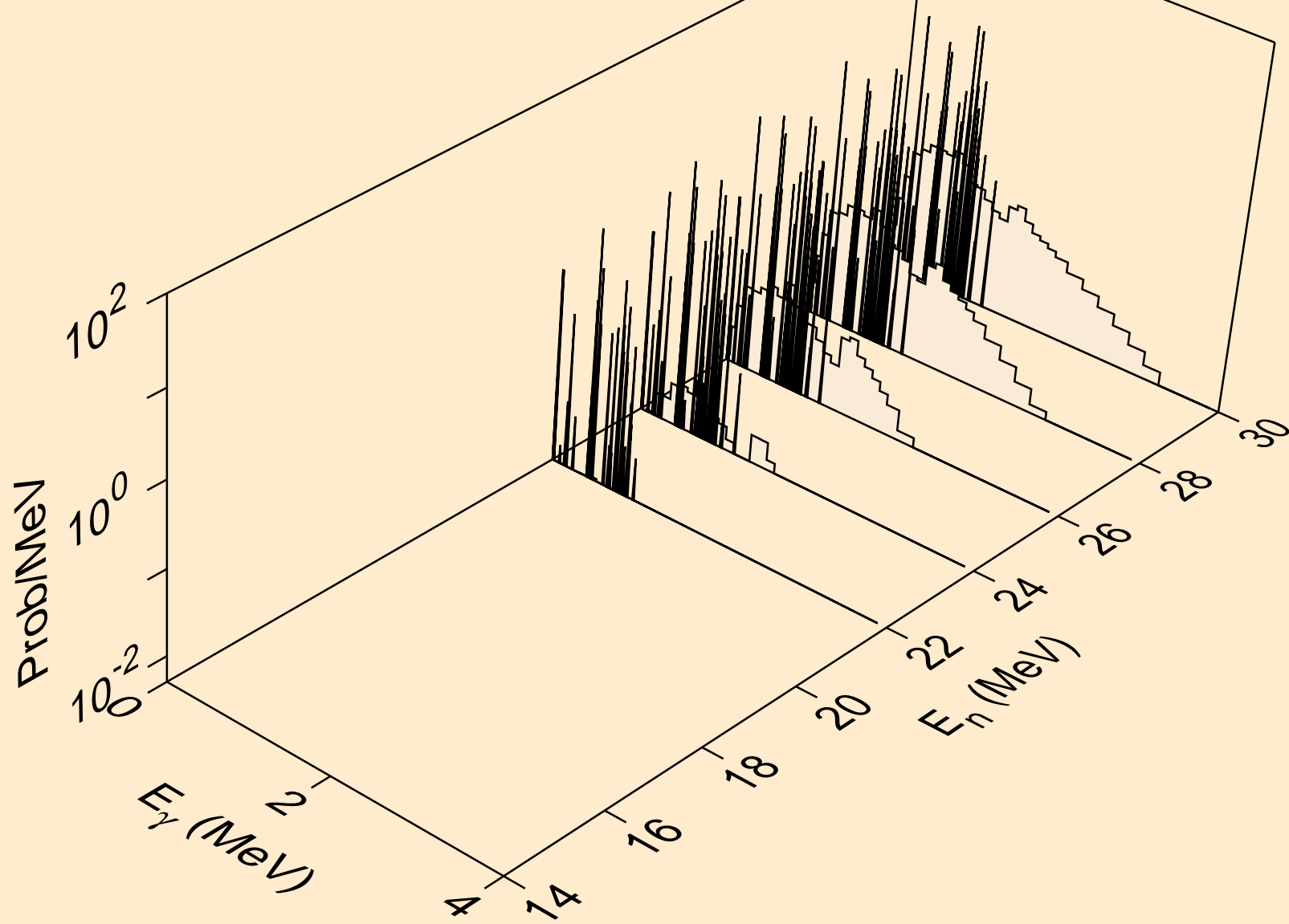
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Photon emission for (n,2np)



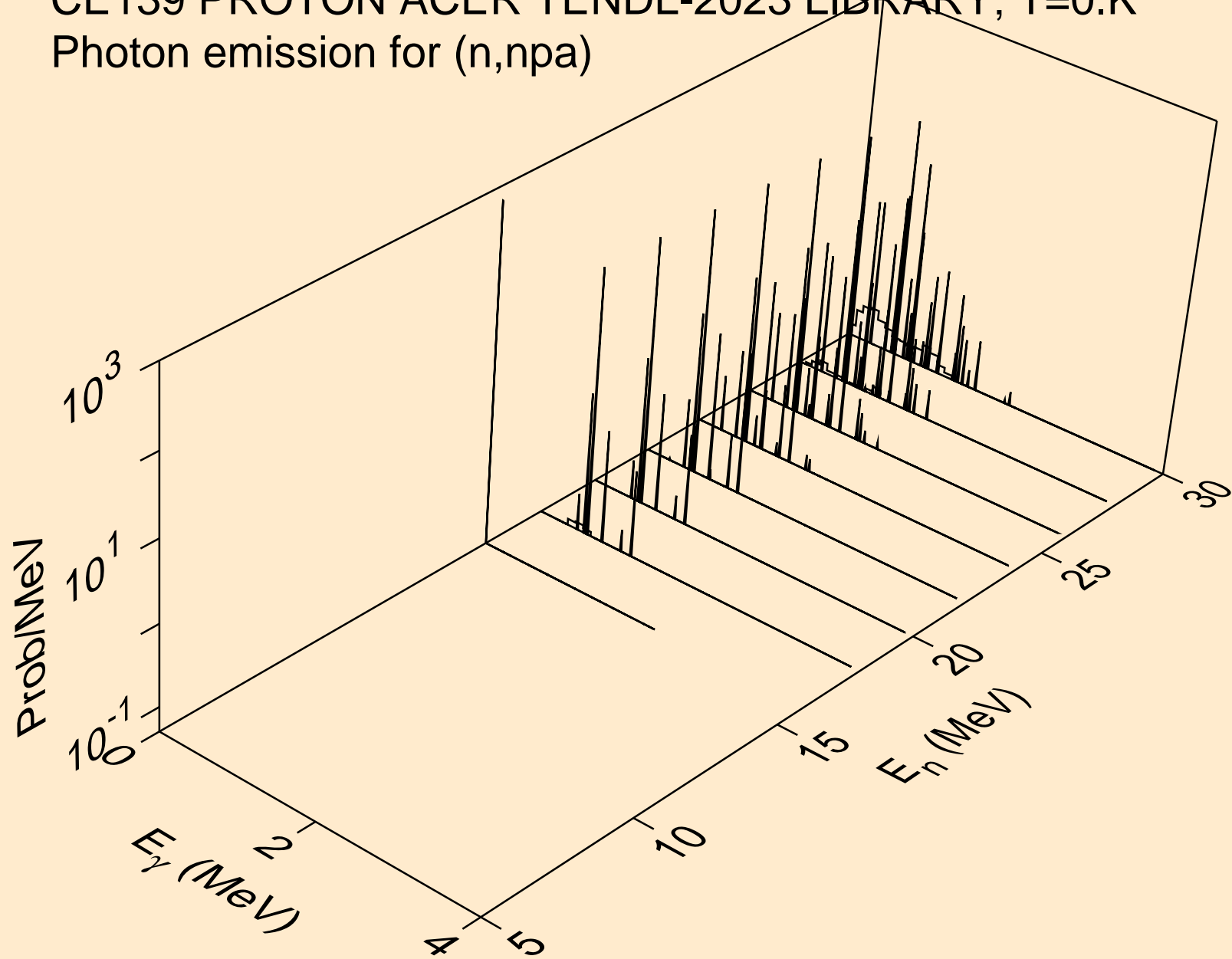
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Photon emission for (n,3np)



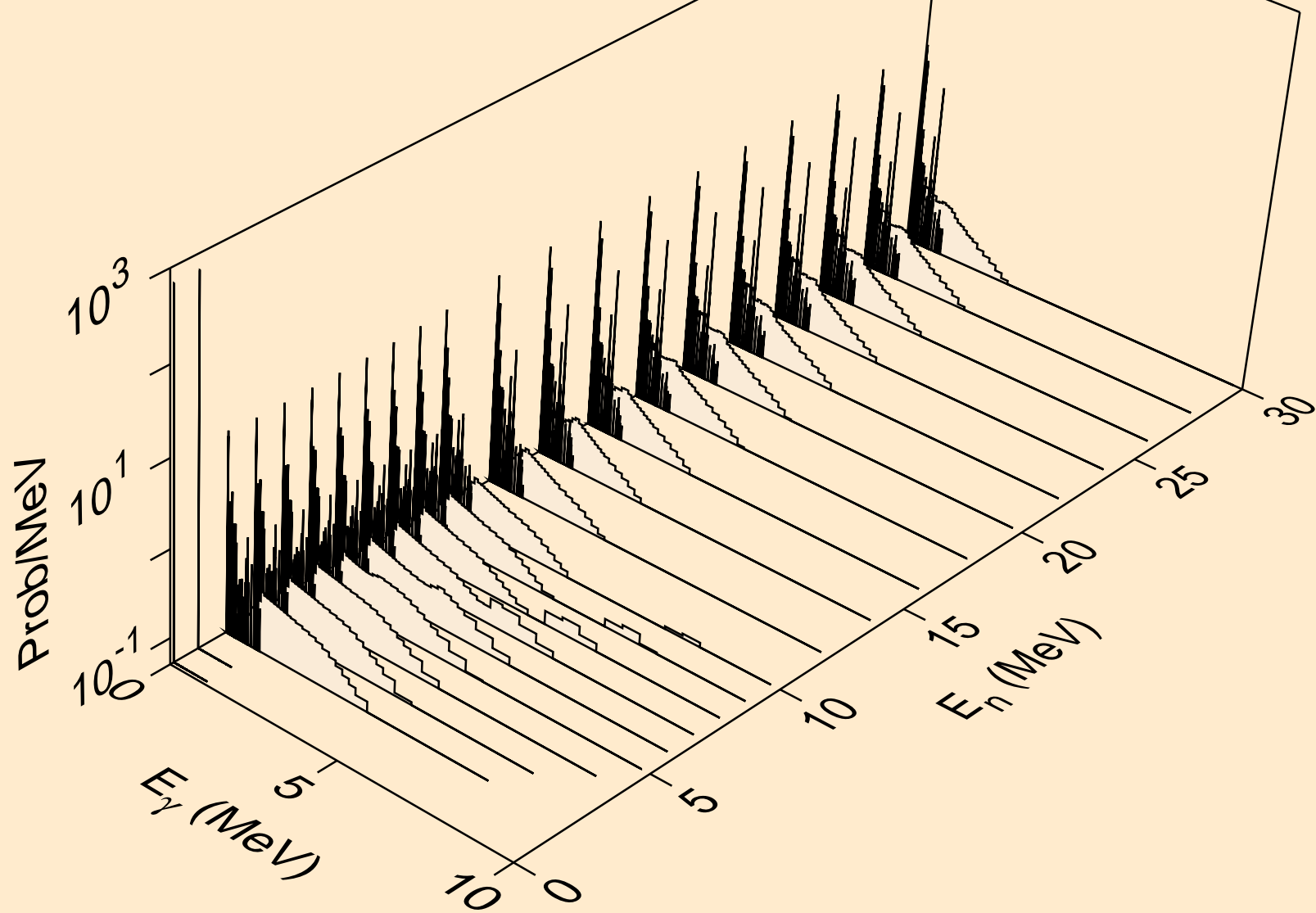
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Photon emission for (n,n2p)



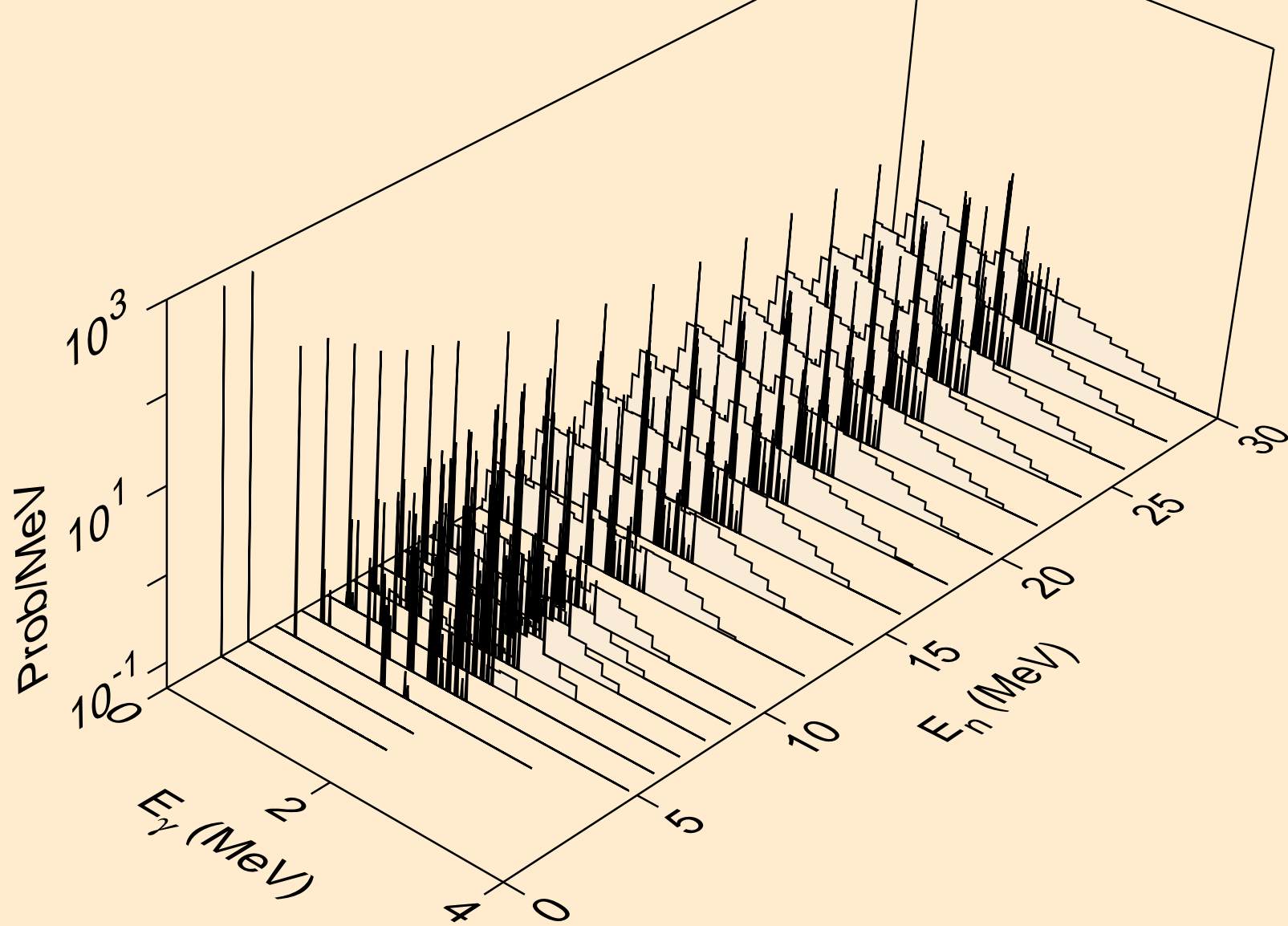
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Photon emission for (n,npa)



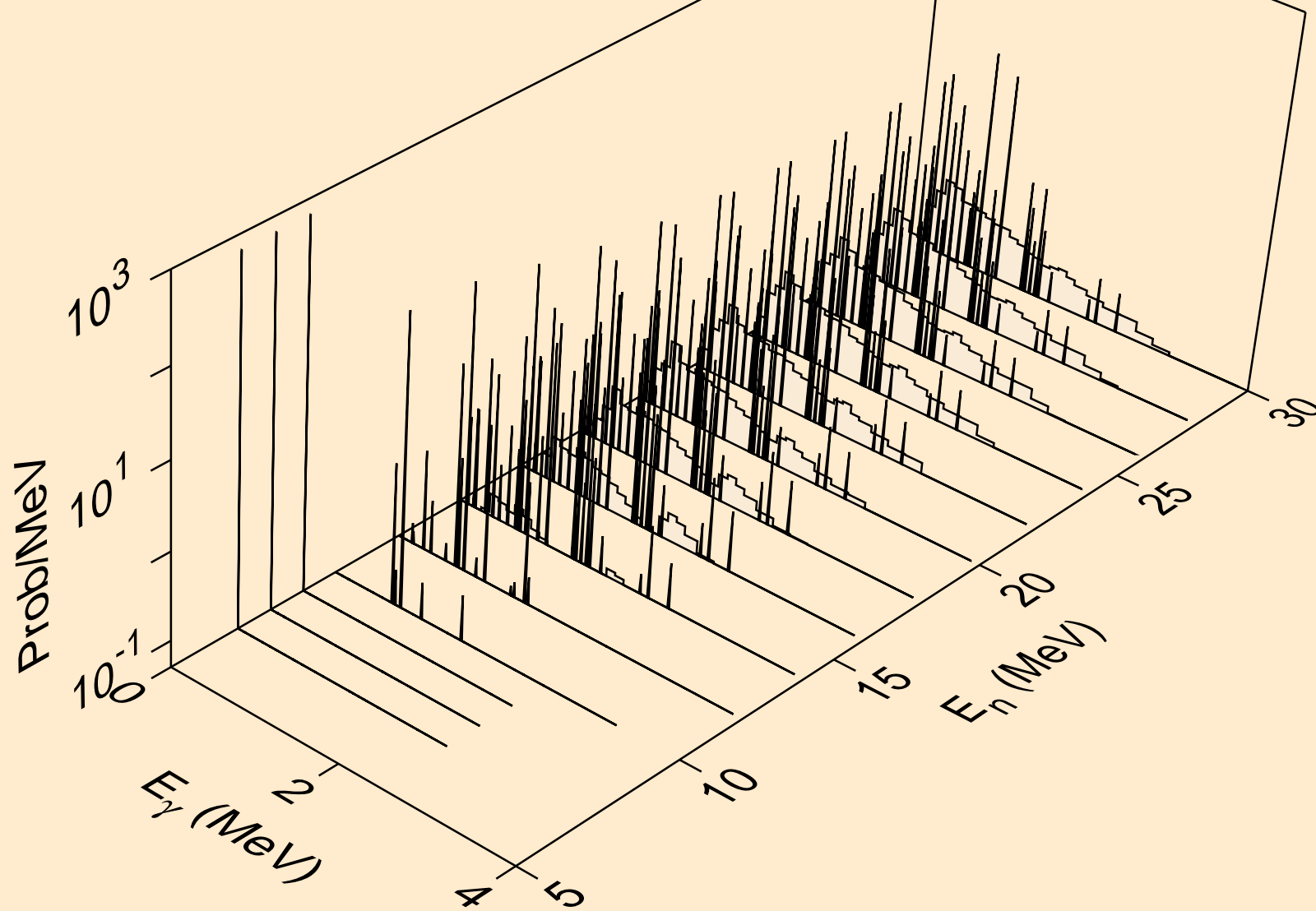
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

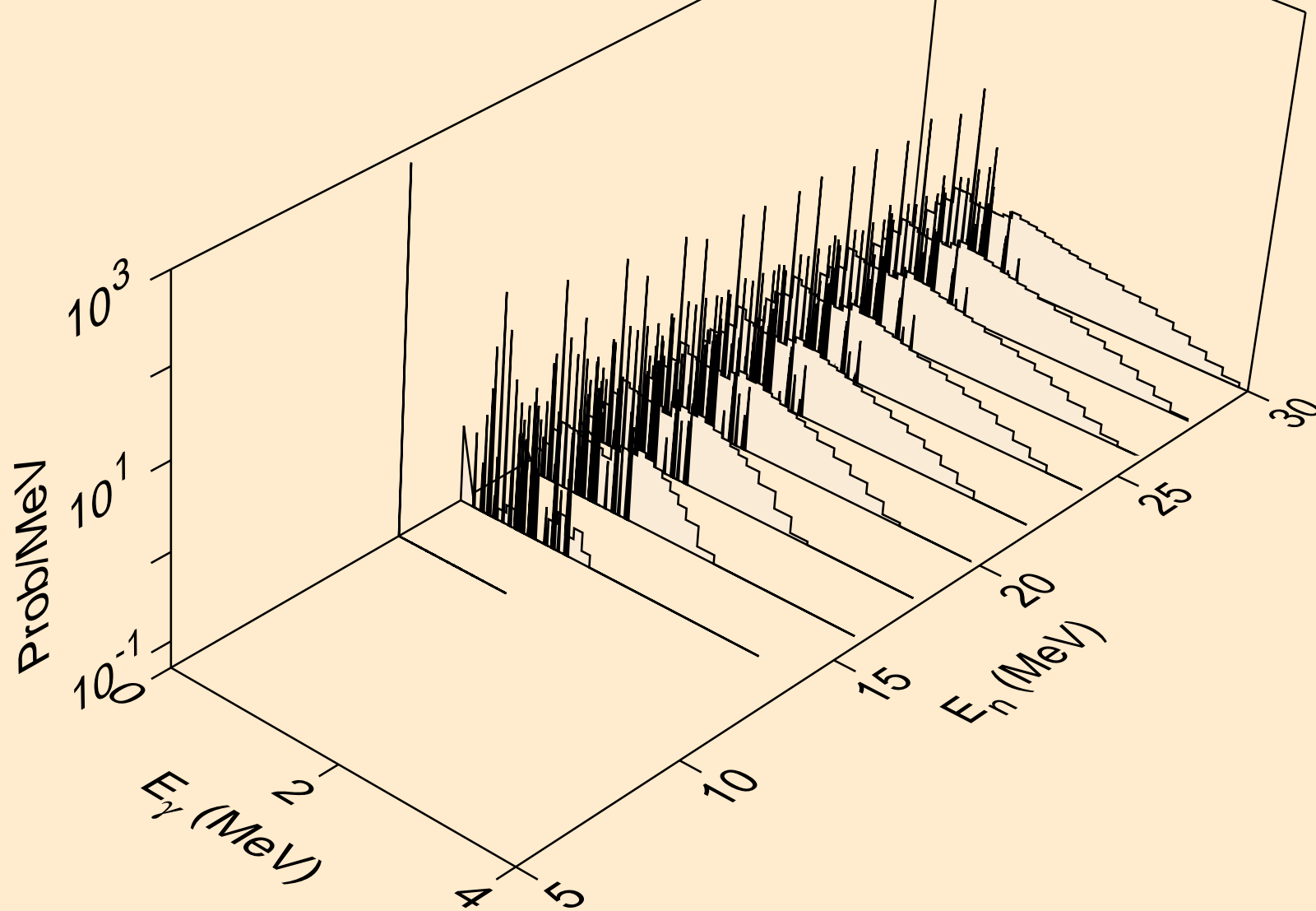


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Photon emission for (n,d)

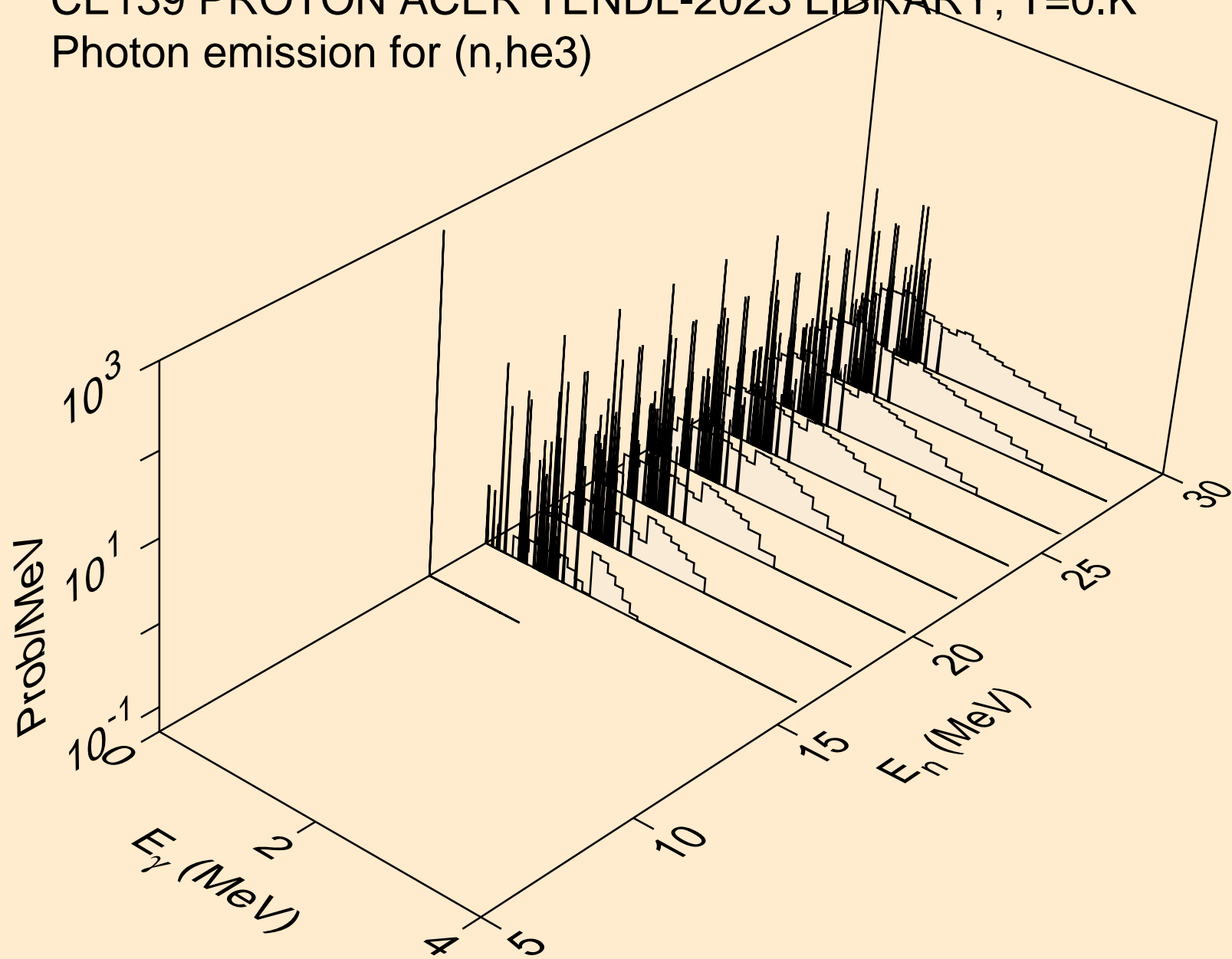




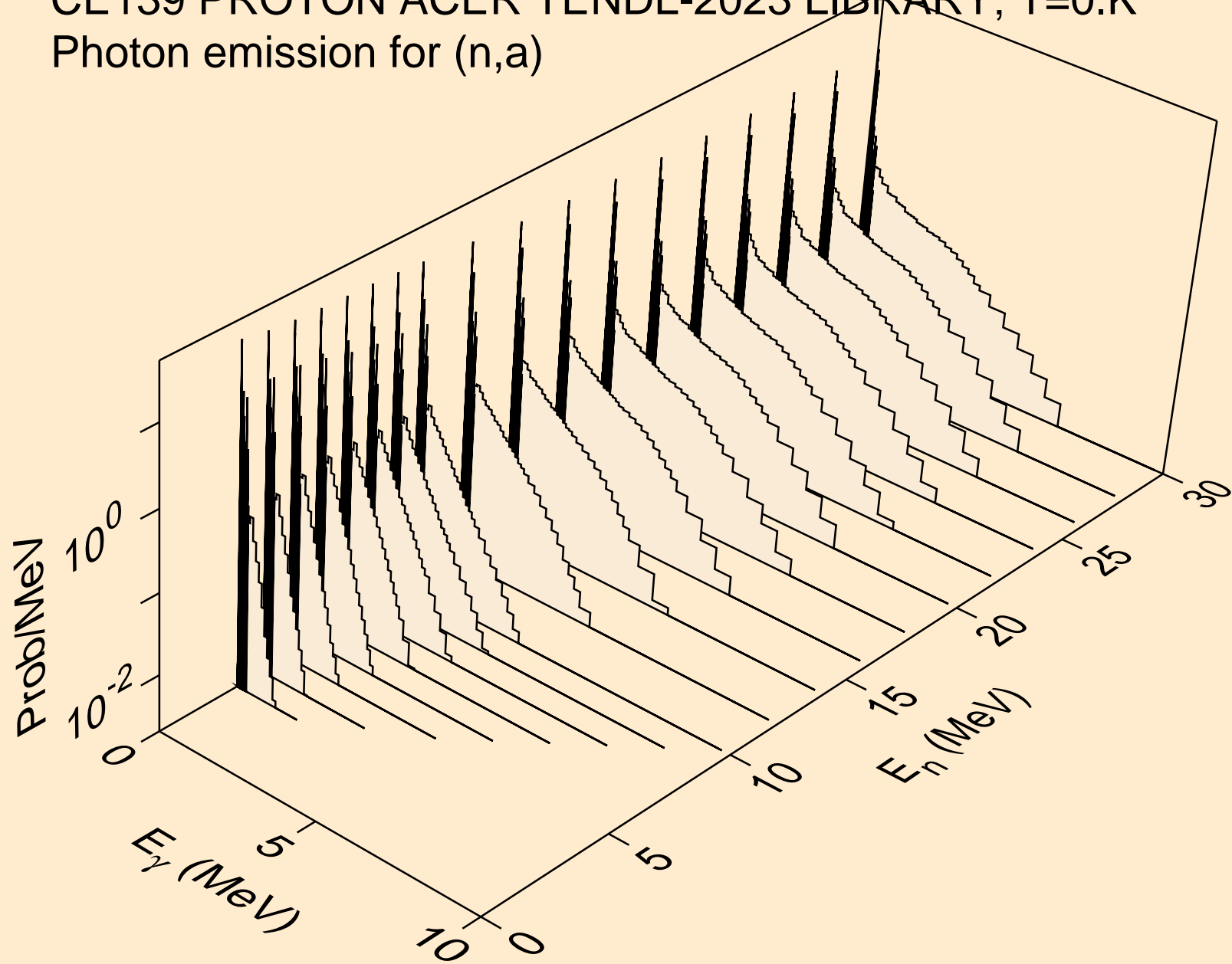
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Photon emission for (n,t)



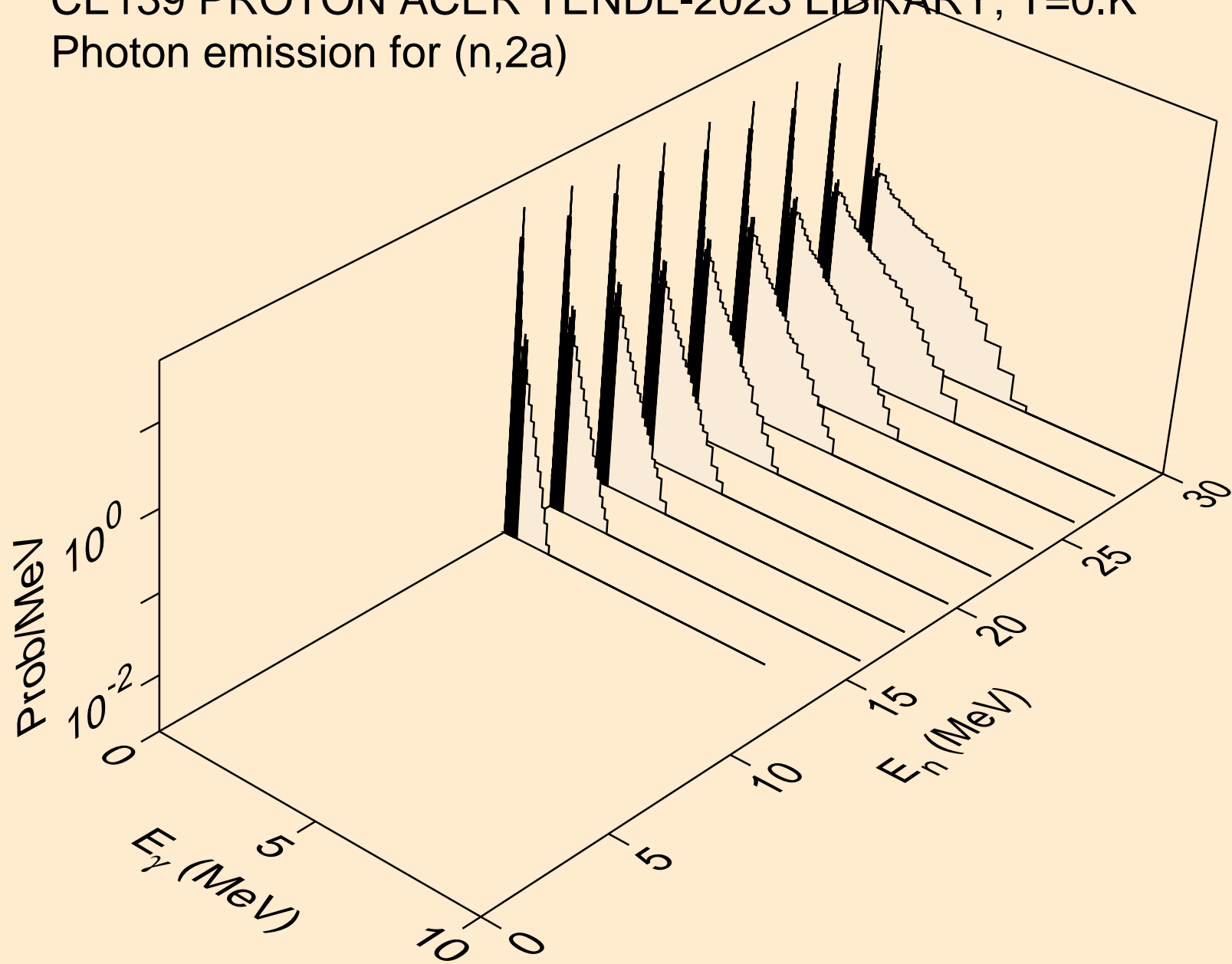
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Photon emission for (n,he3)



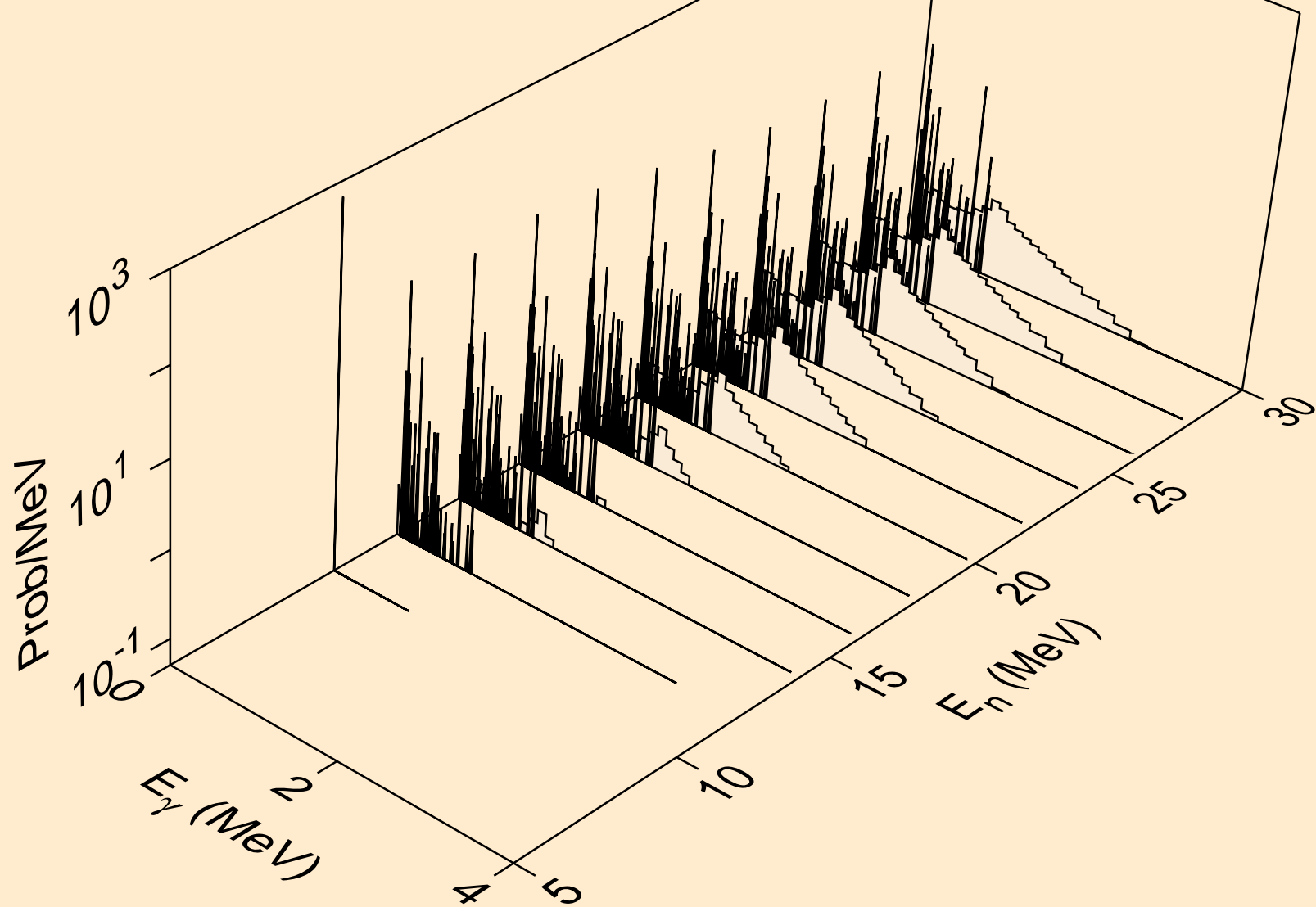
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Photon emission for (n,a)



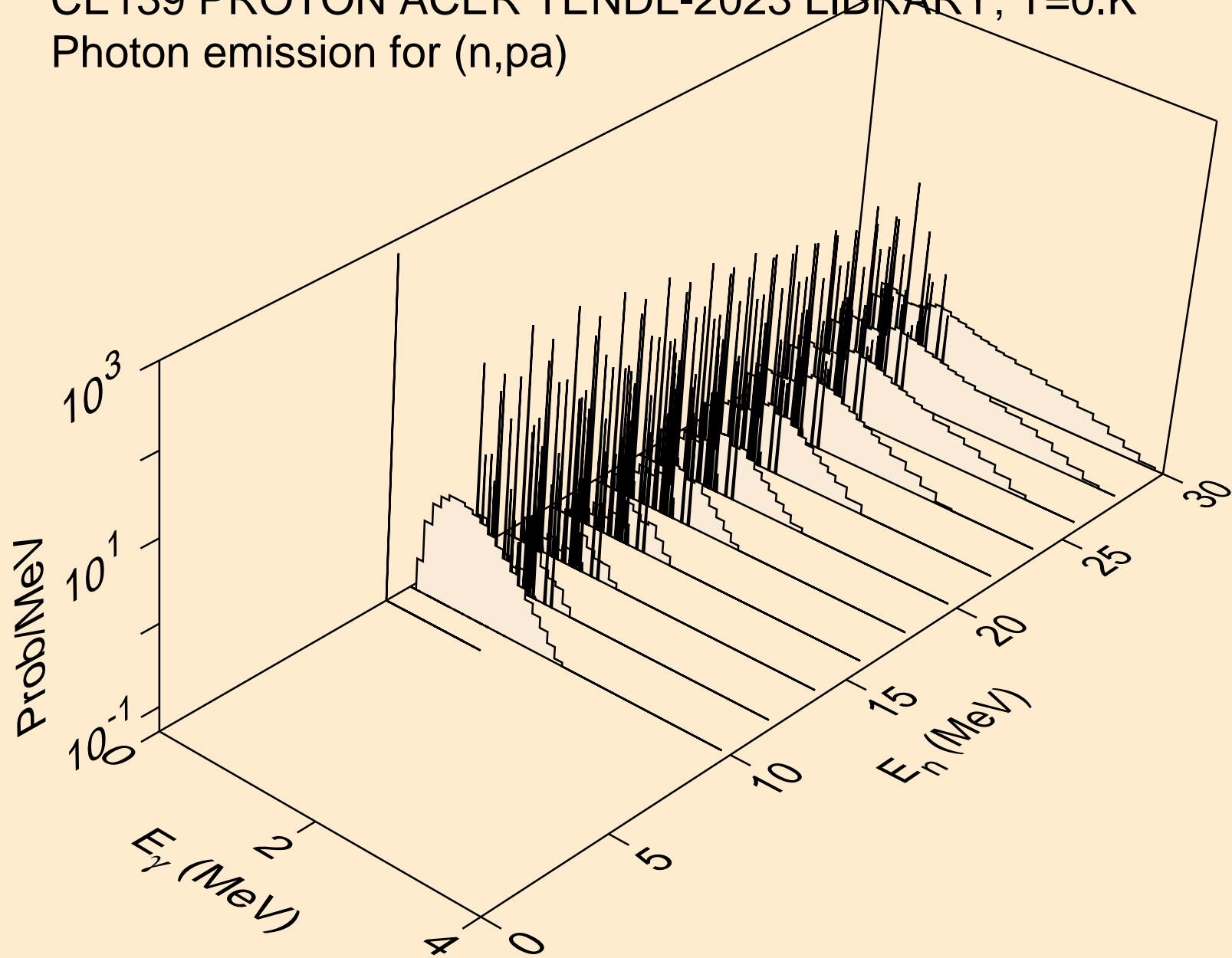
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Photon emission for (n,2a)



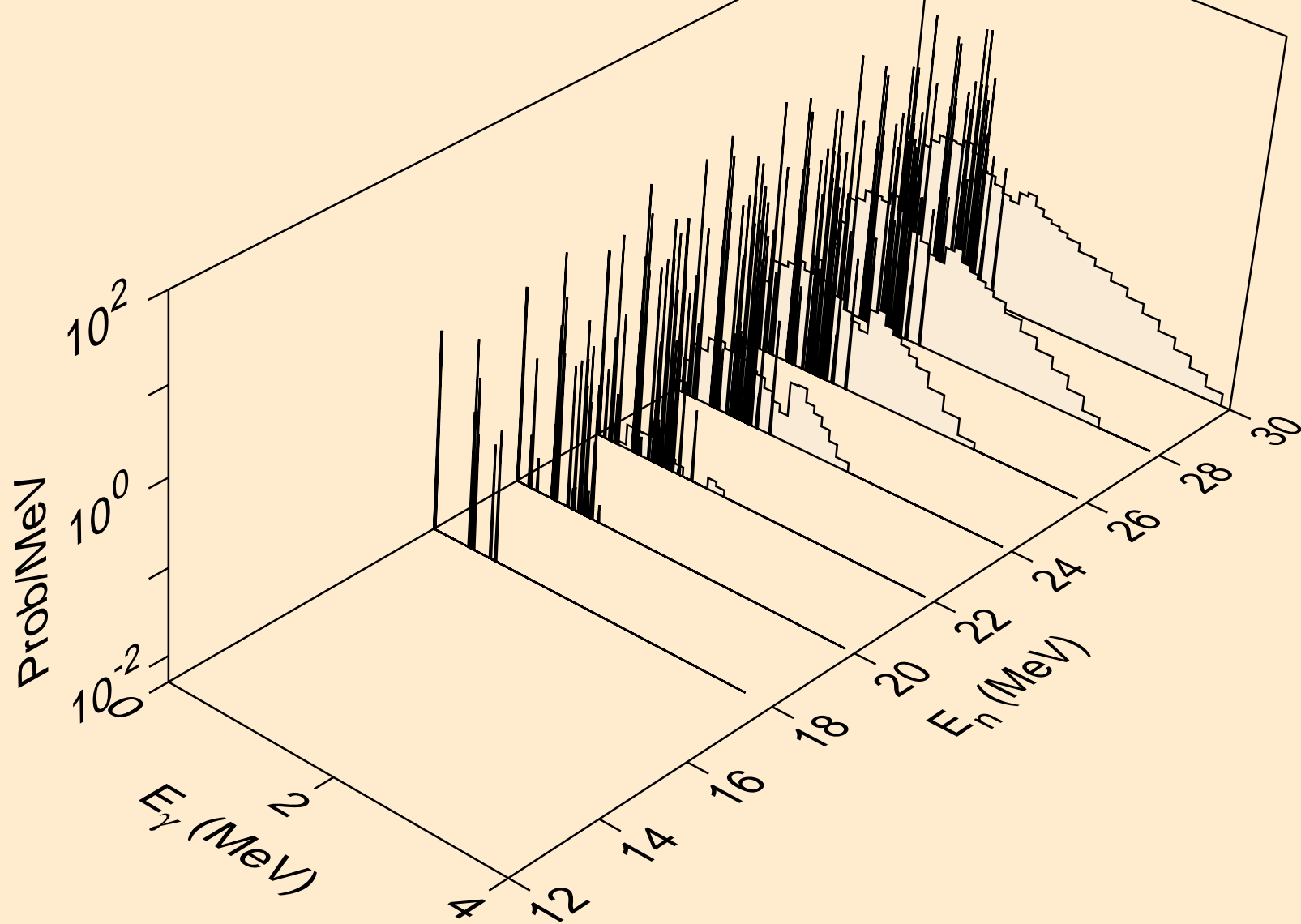
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Photon emission for (n,2p)



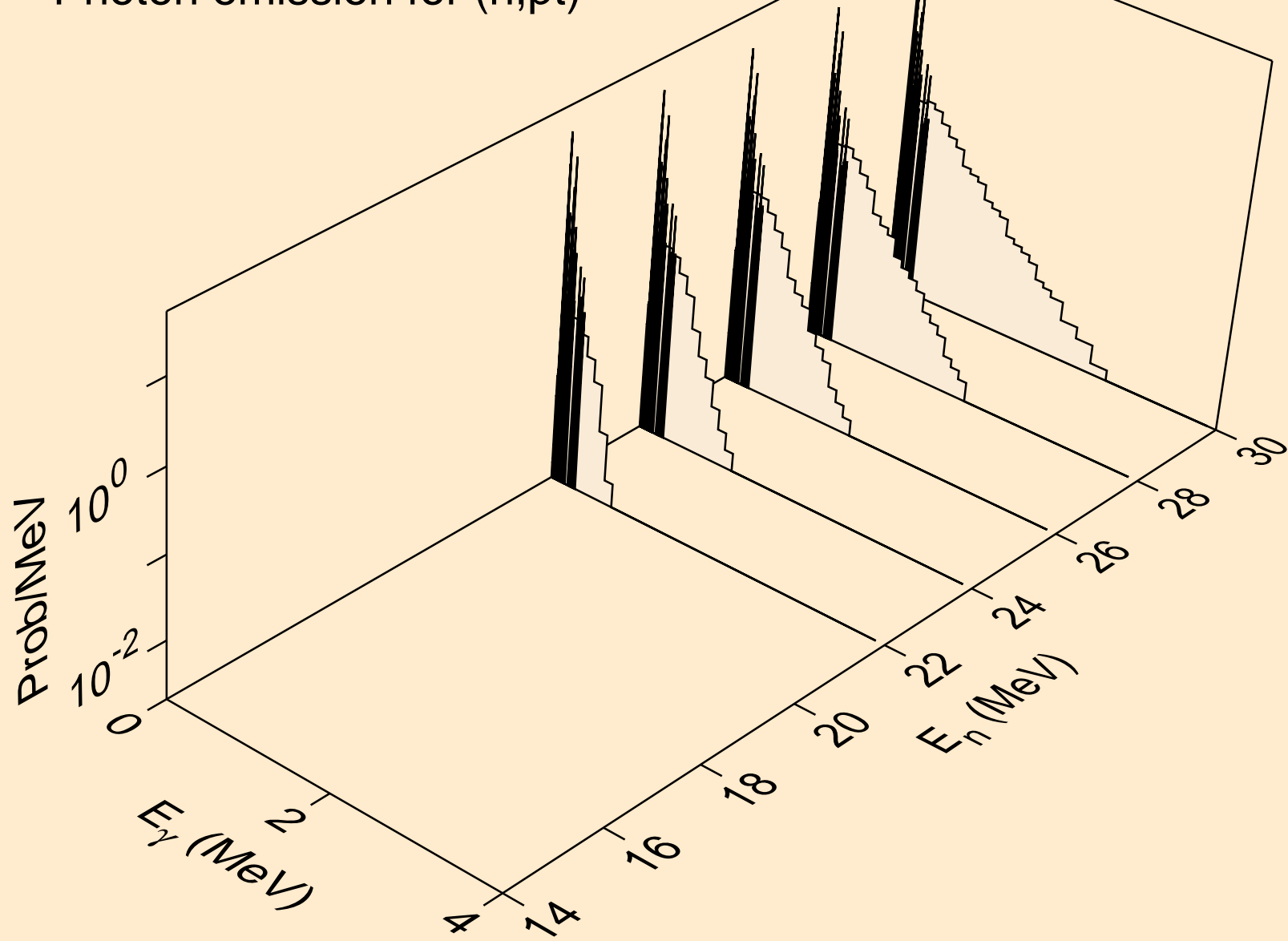
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

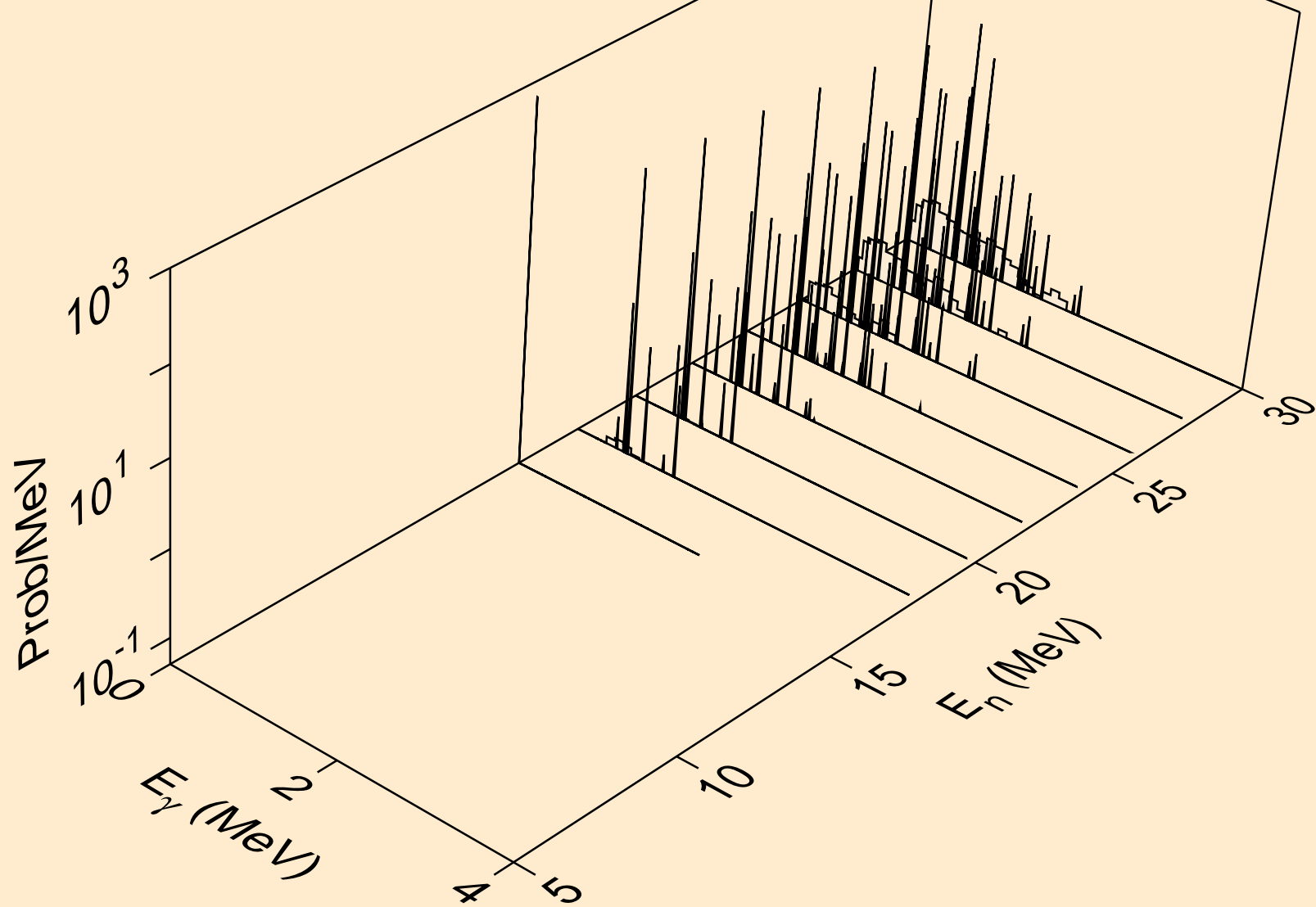


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Photon emission for (n,pt)

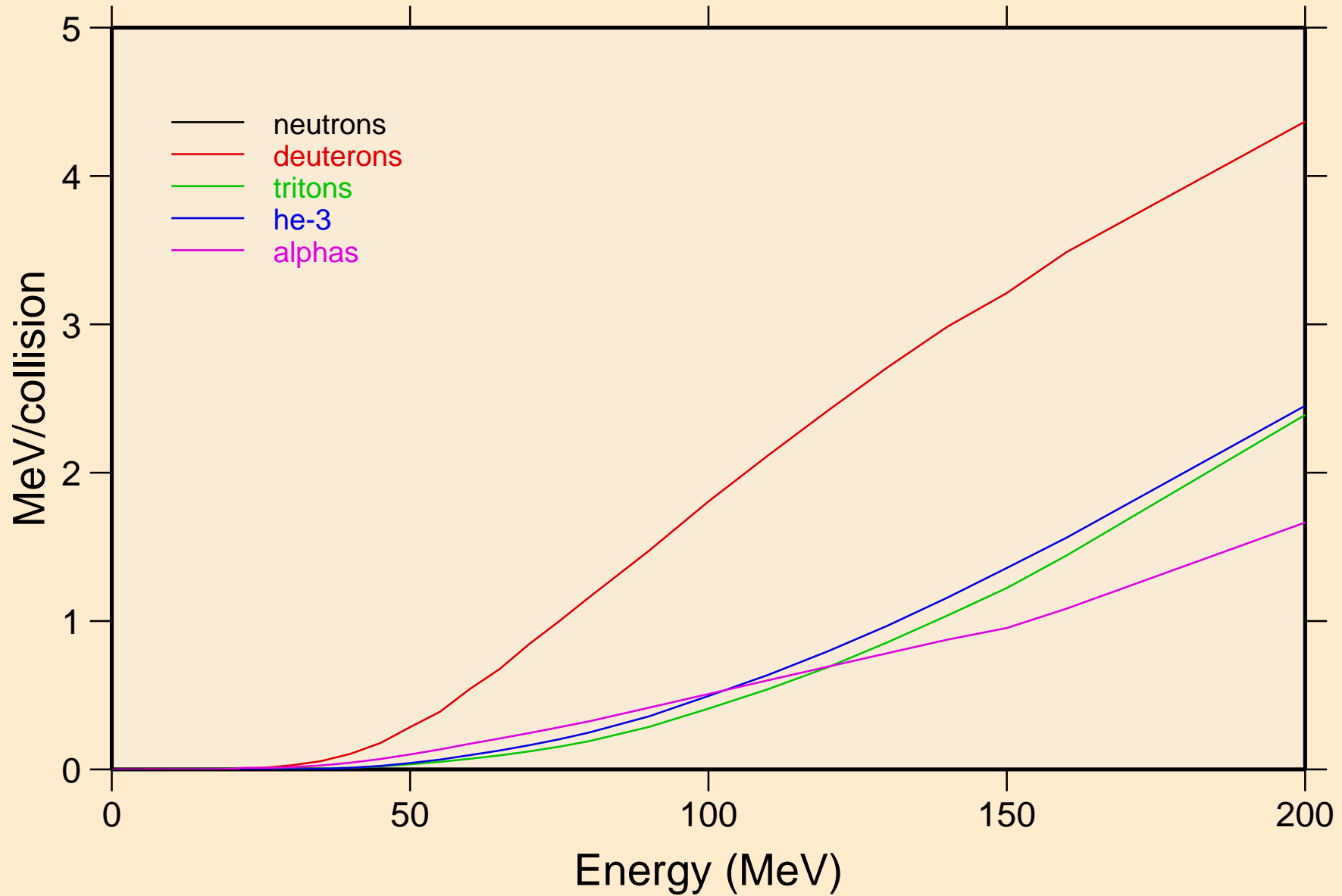




CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

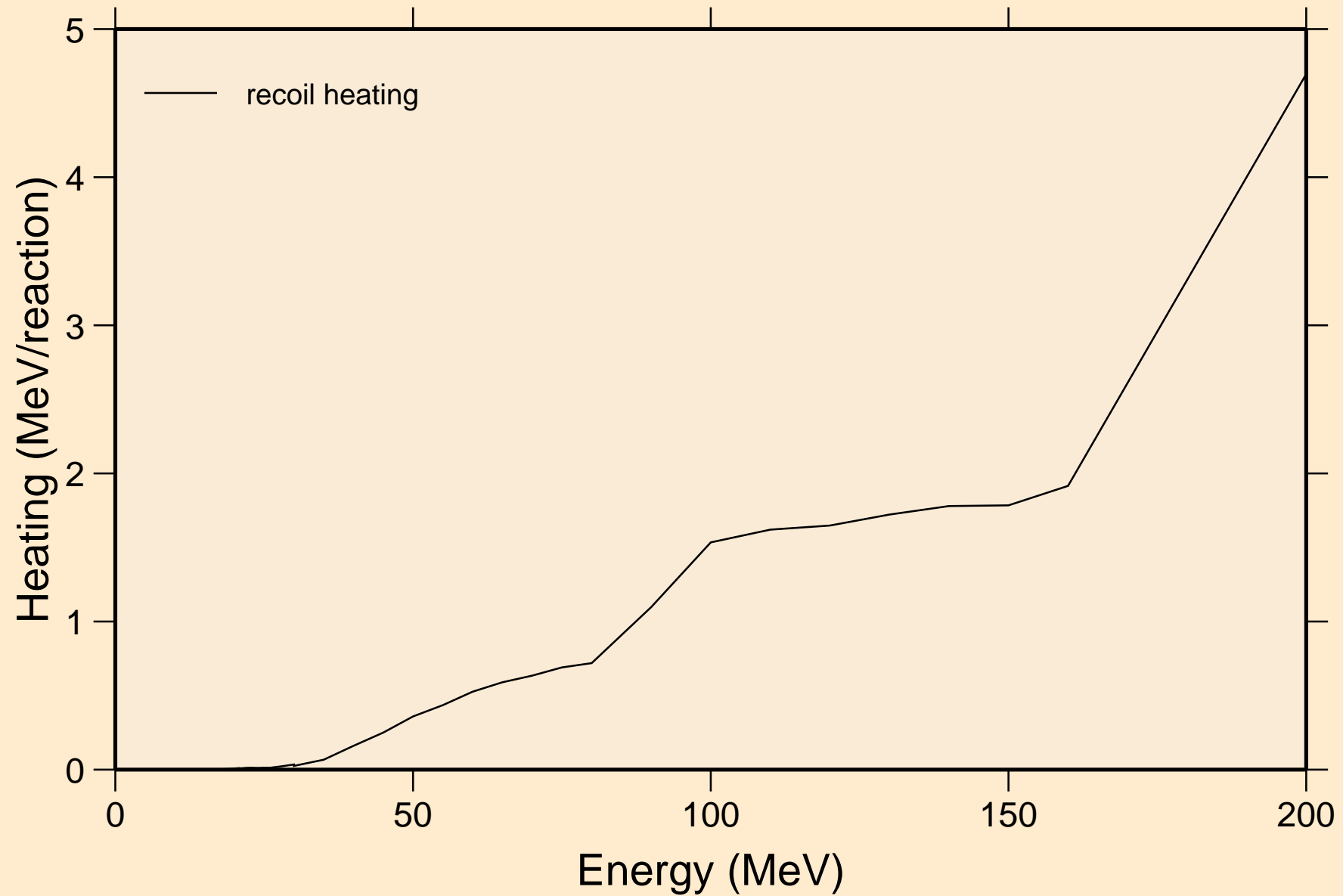


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

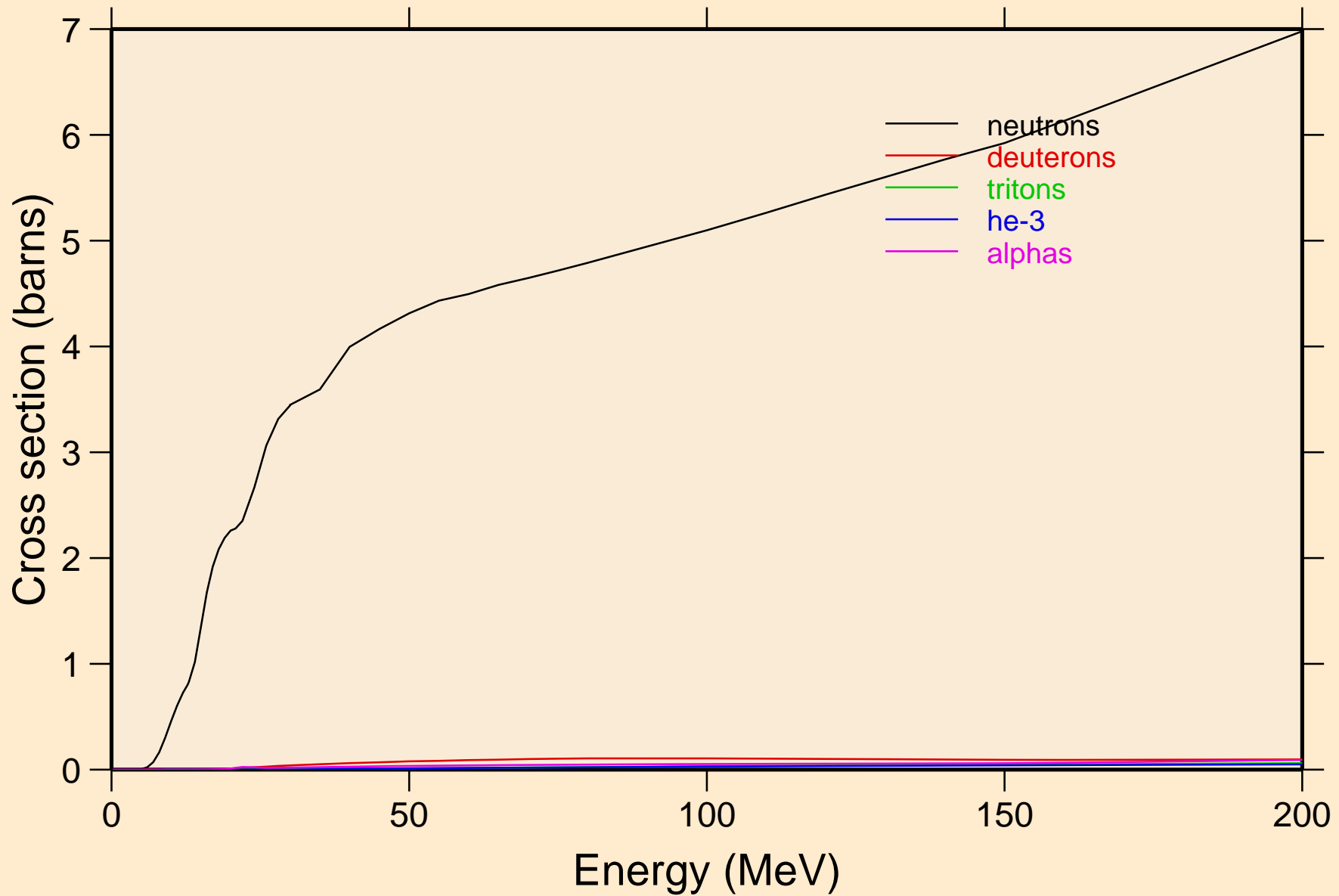


# CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K

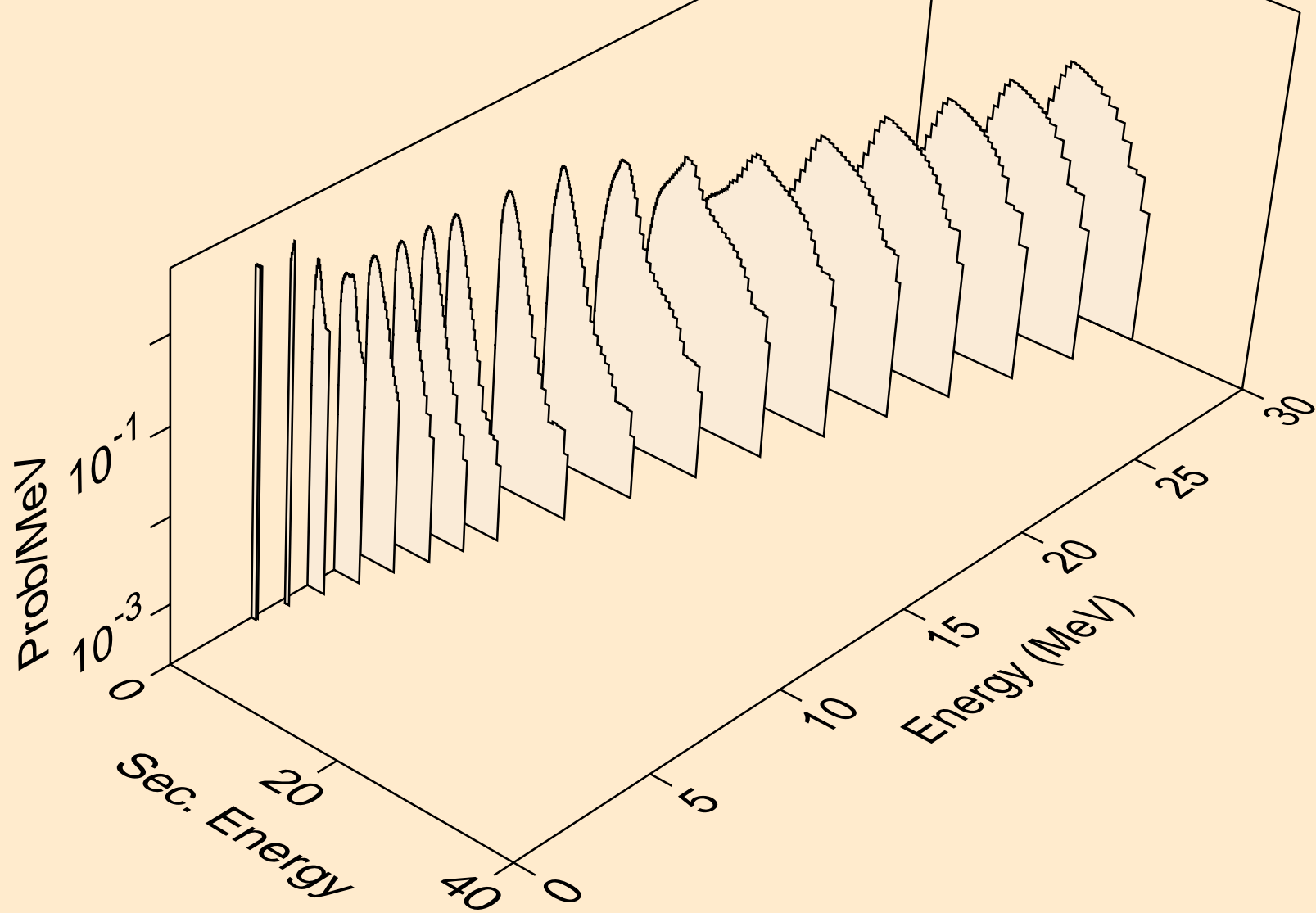
## Recoil Heating



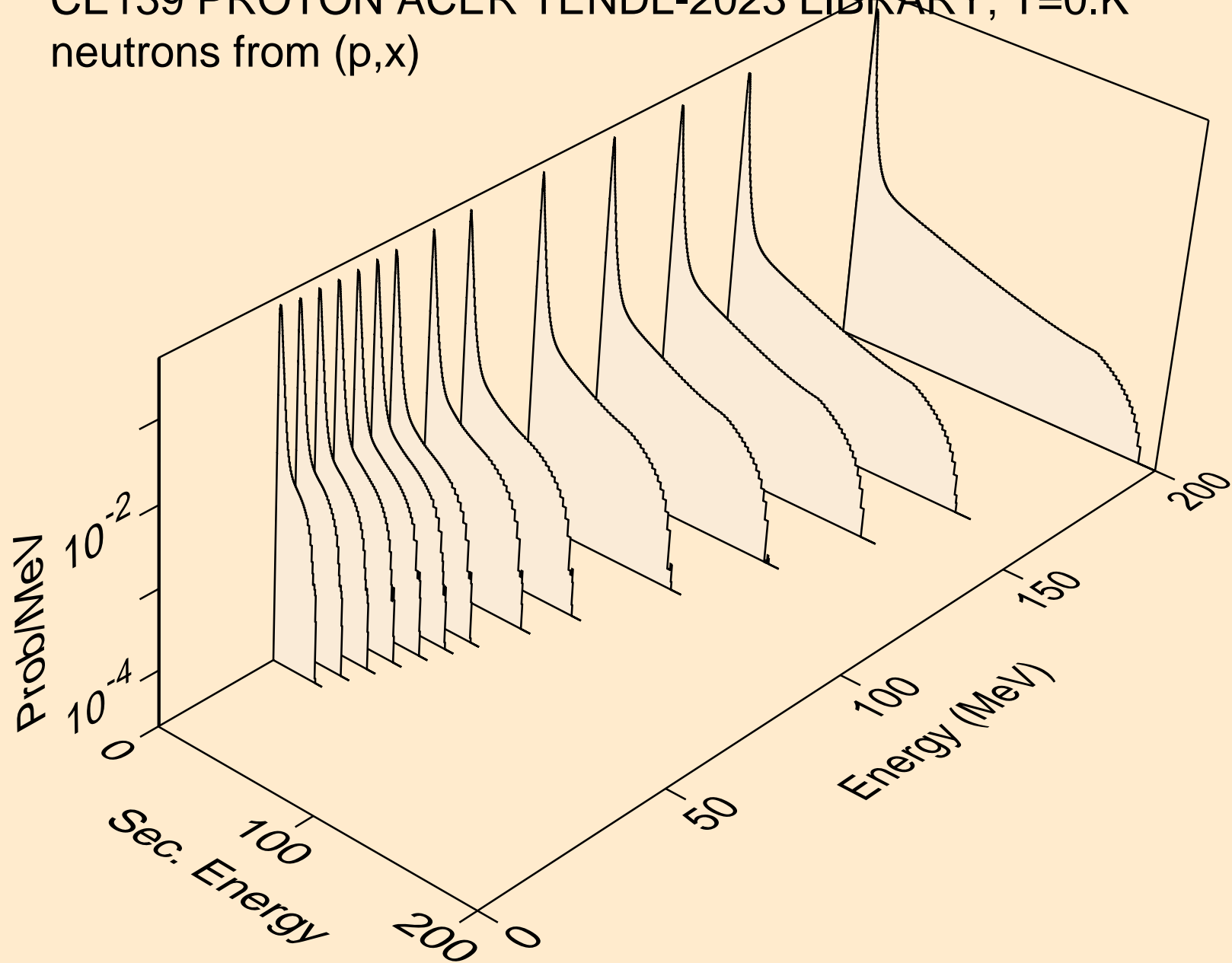
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



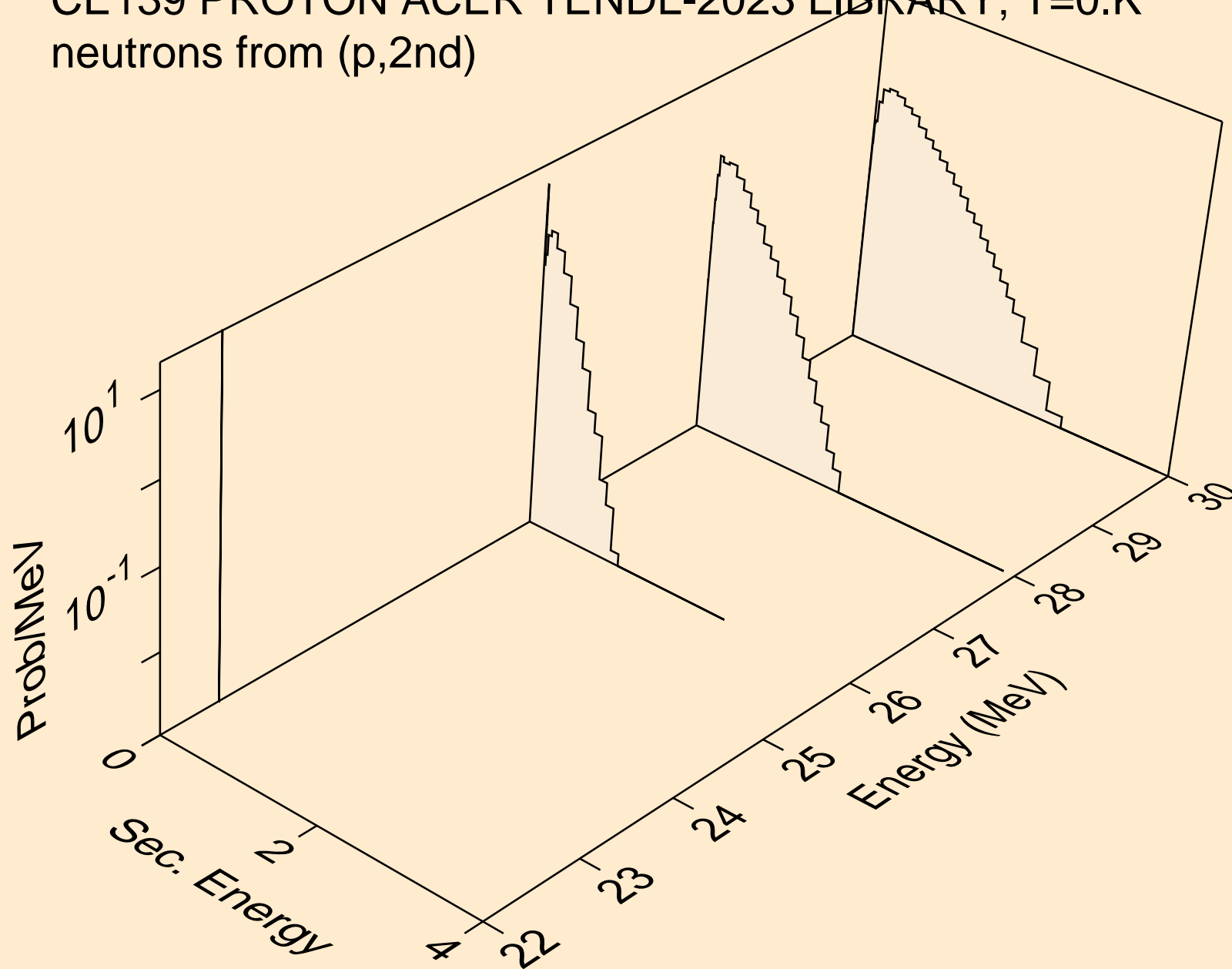
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



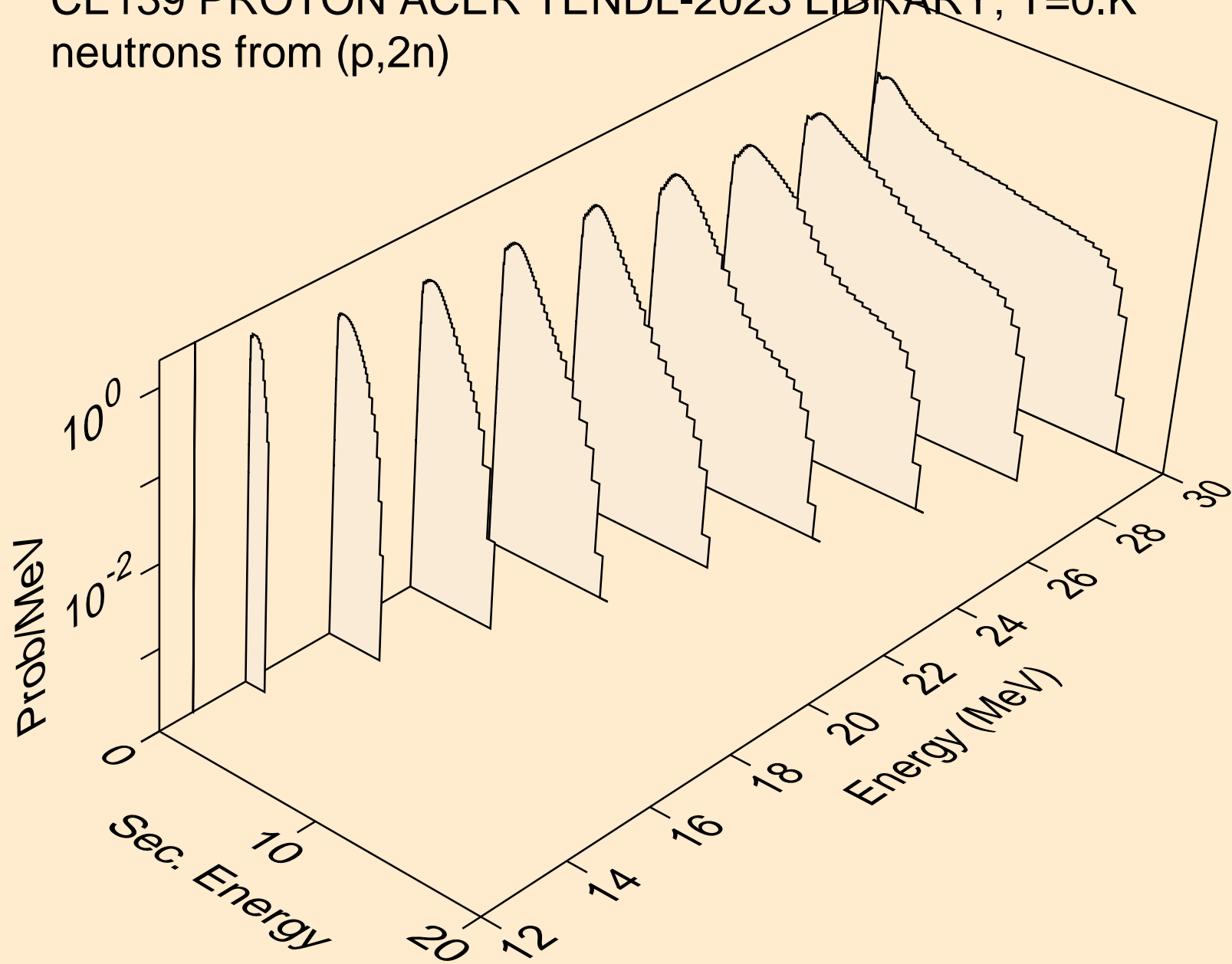
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)

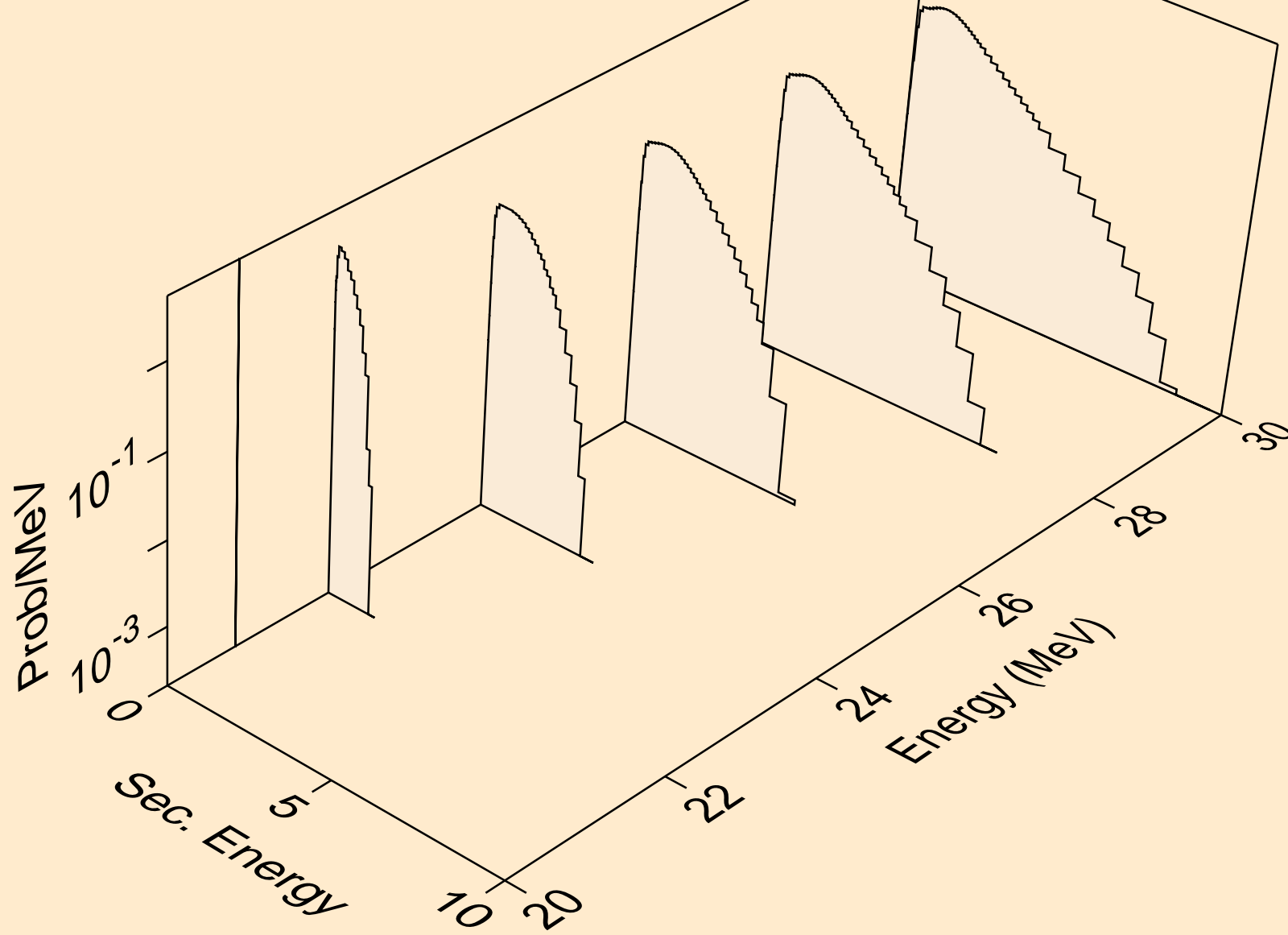


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)

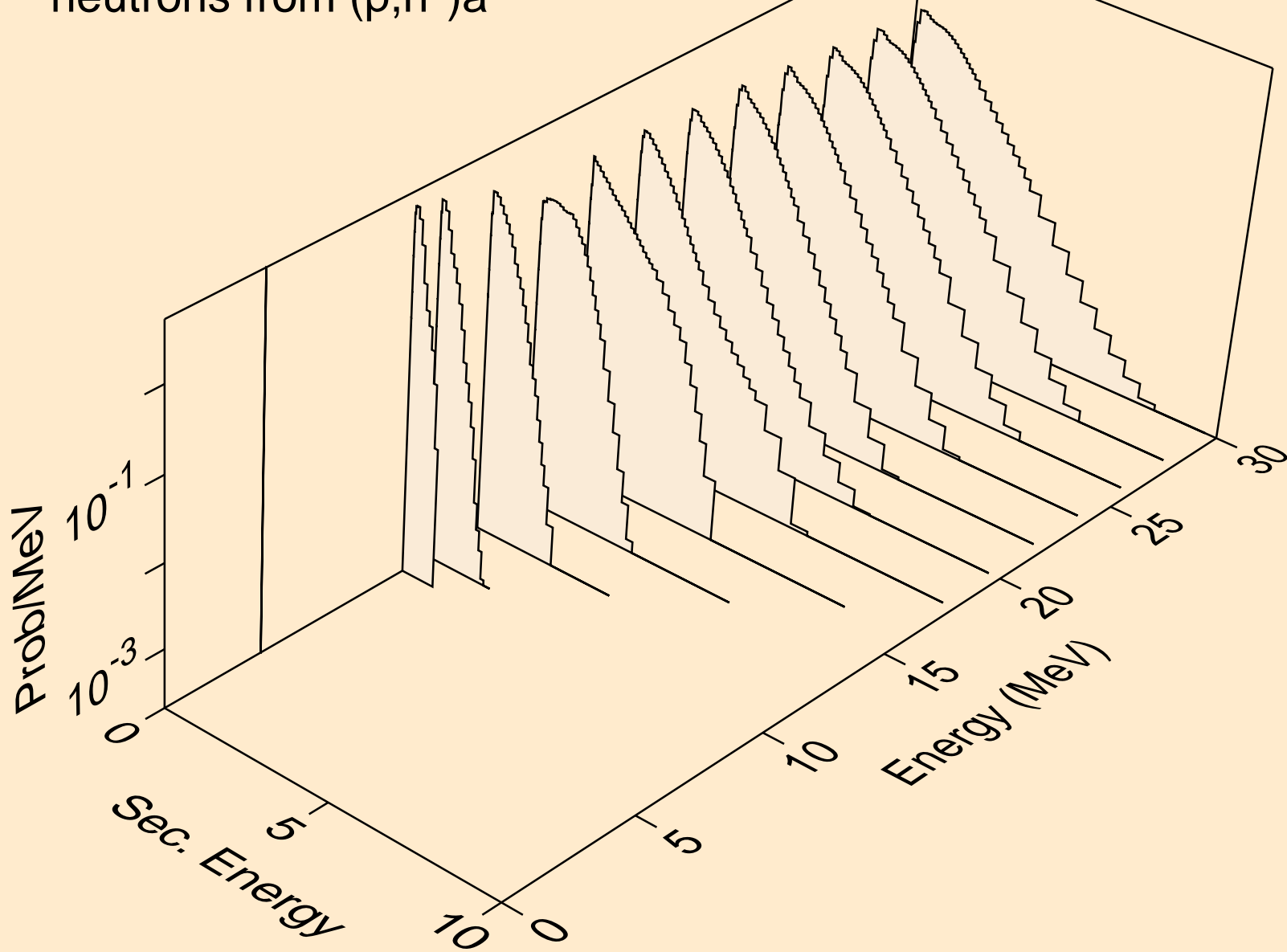




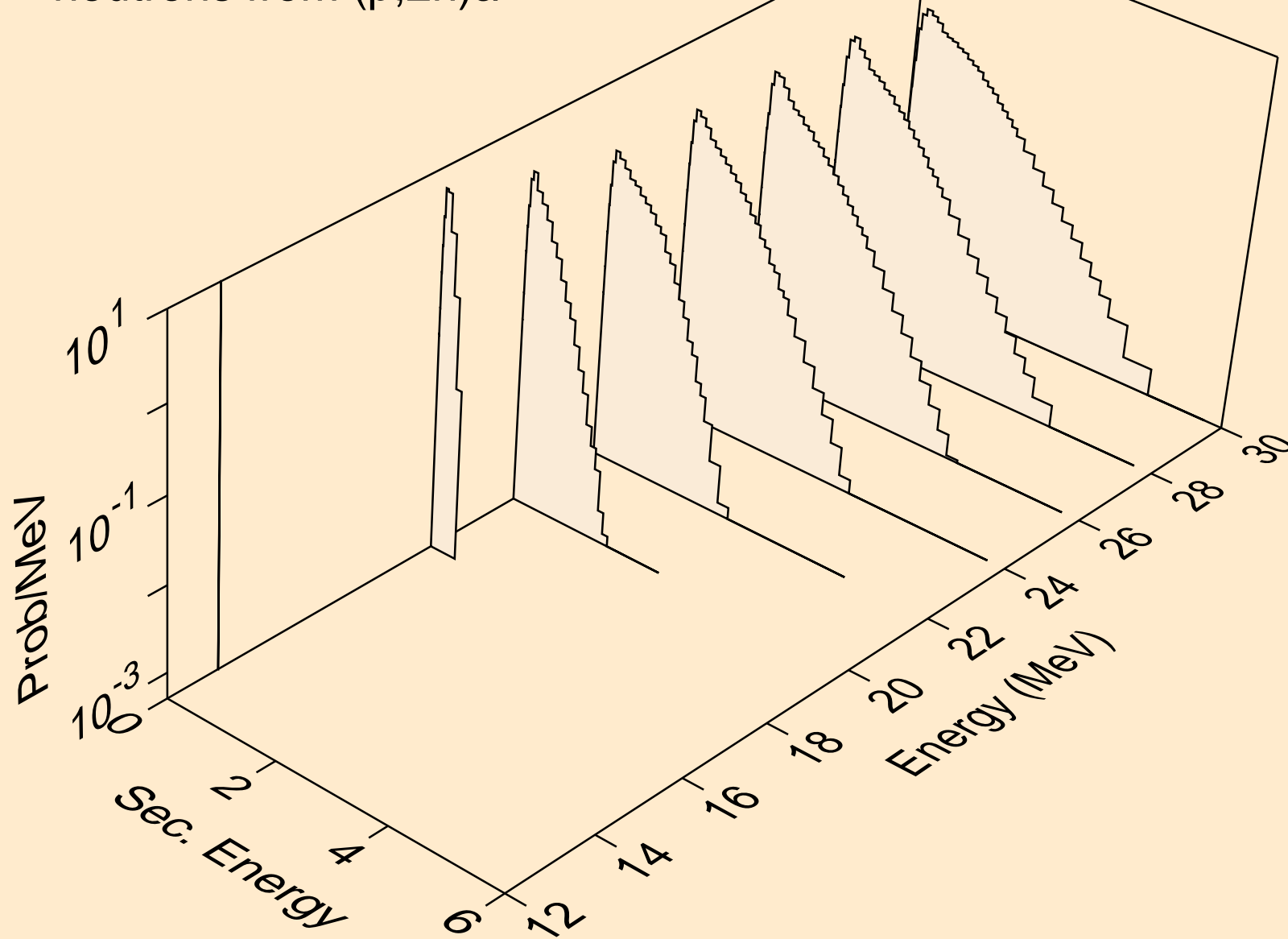
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



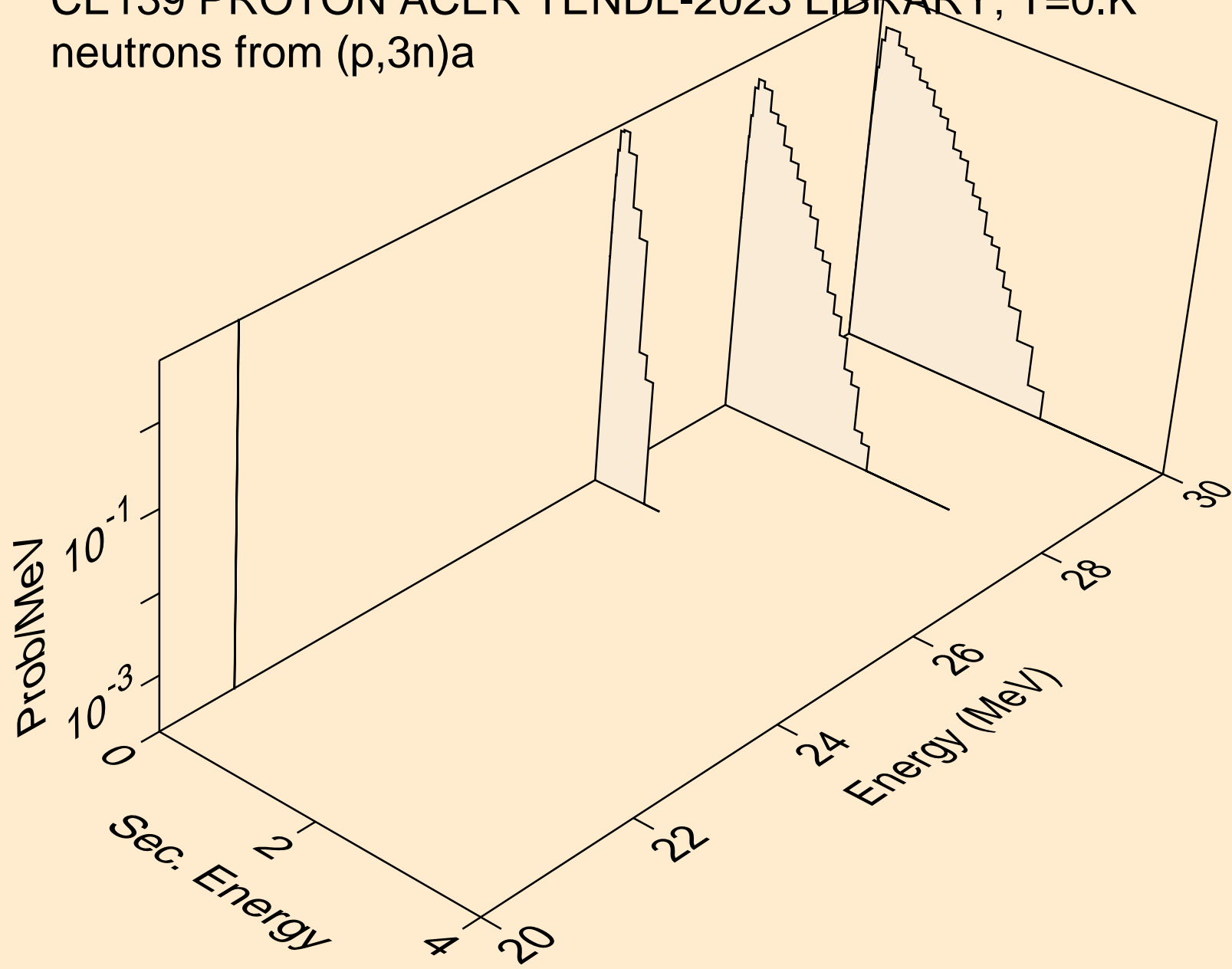
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



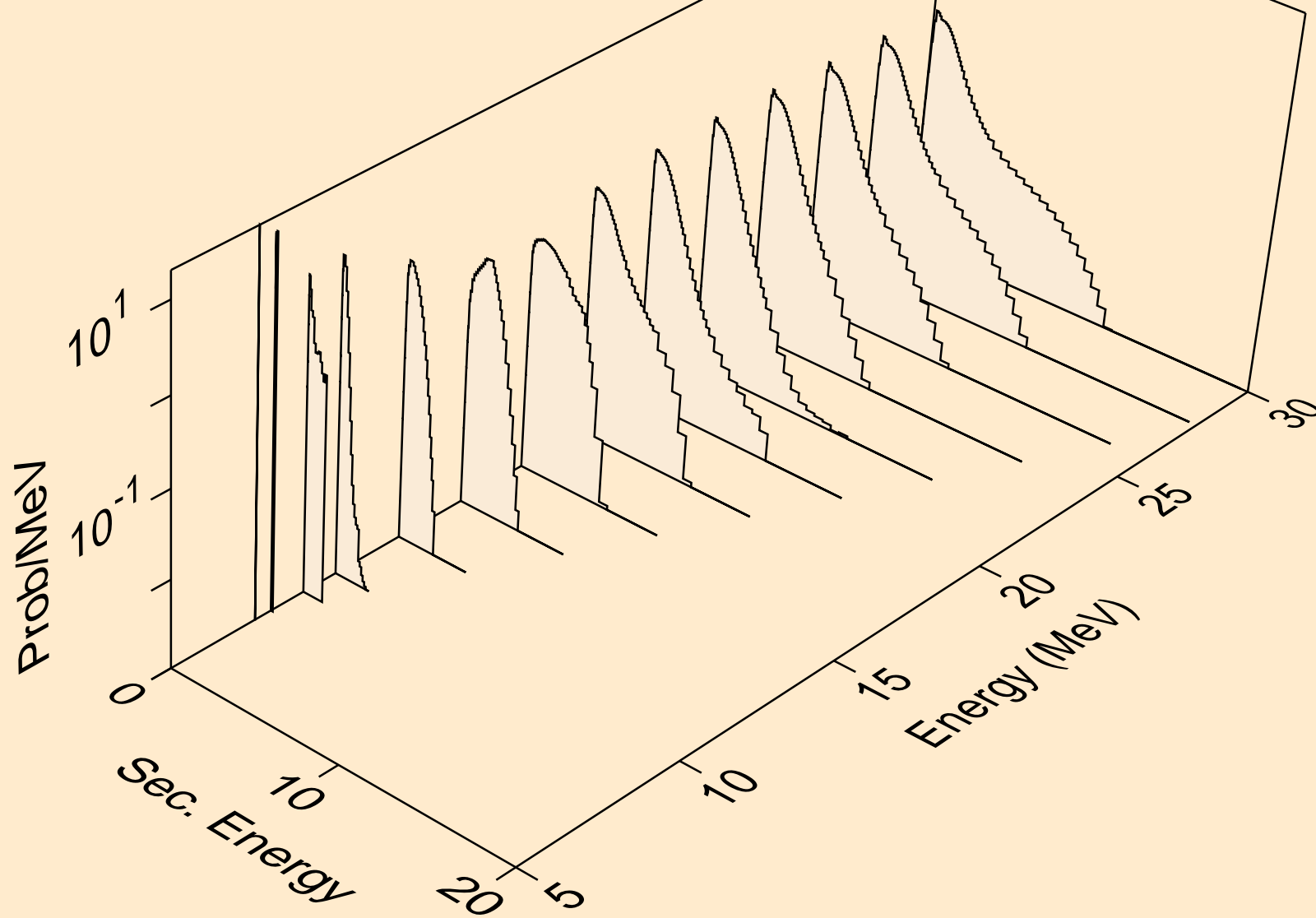
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neutrons from (p,2n)a



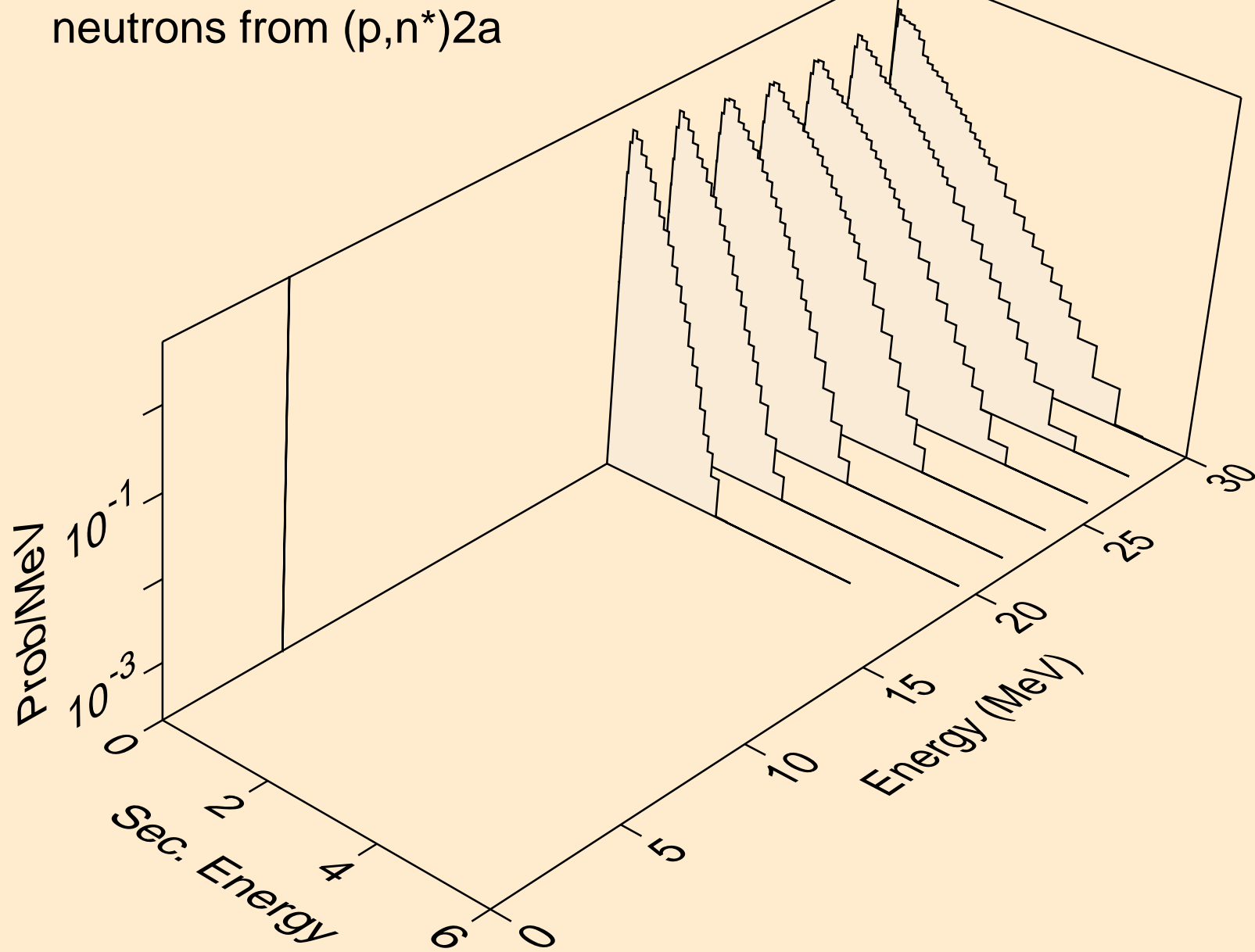
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neutrons from (p,3n)a



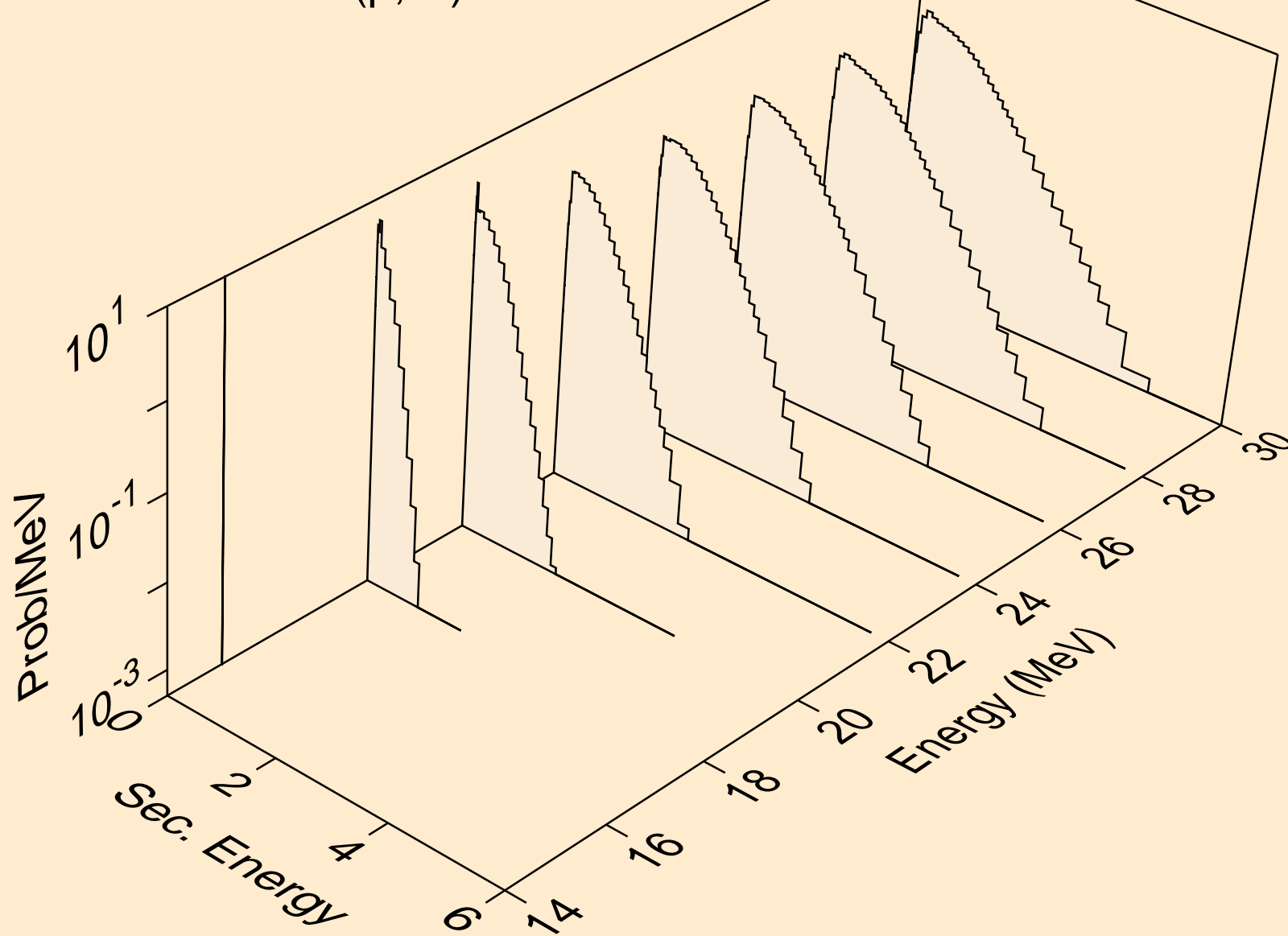
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neutrons from (p,n\*)p



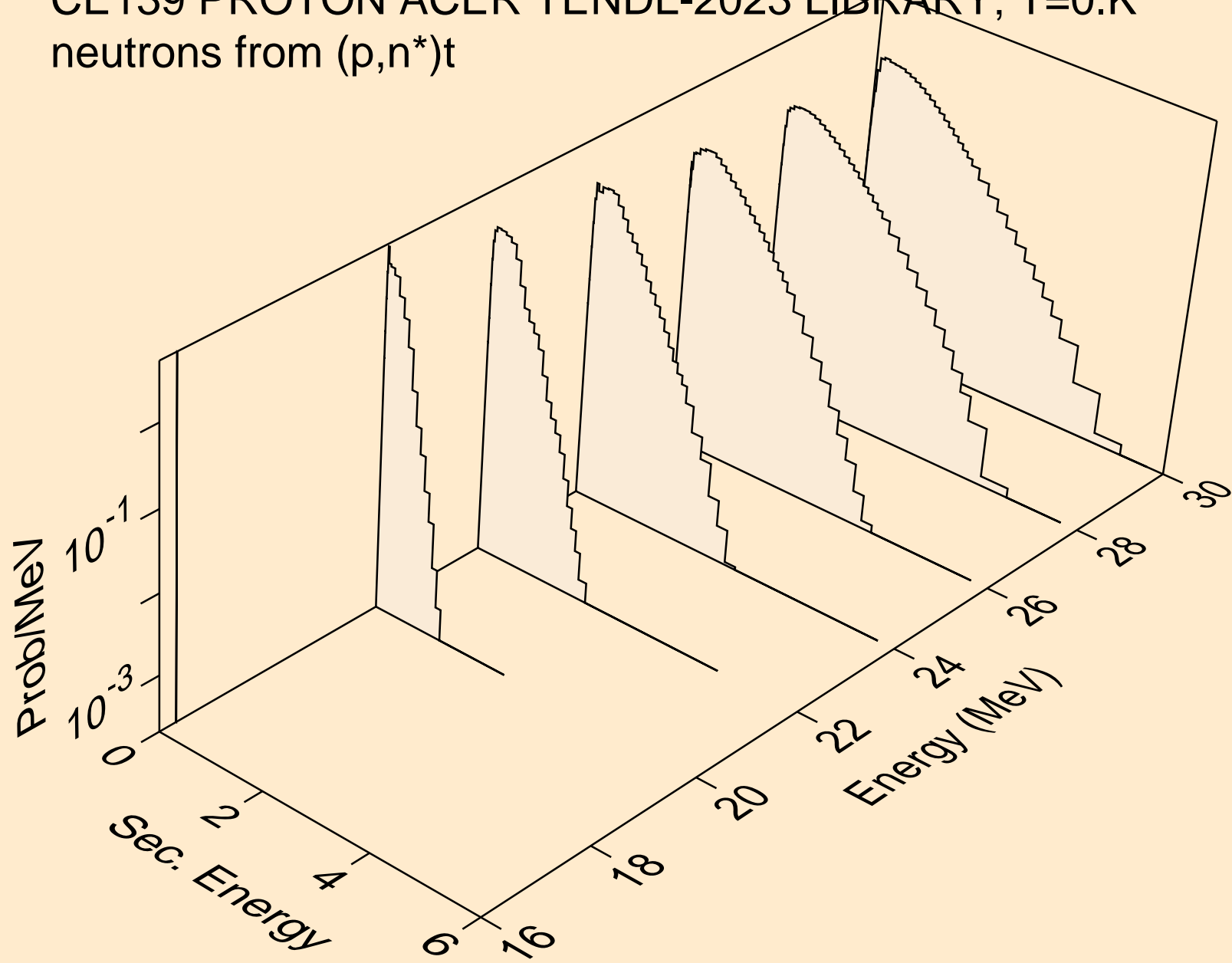
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neutrons from (p,n\*)2a



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d

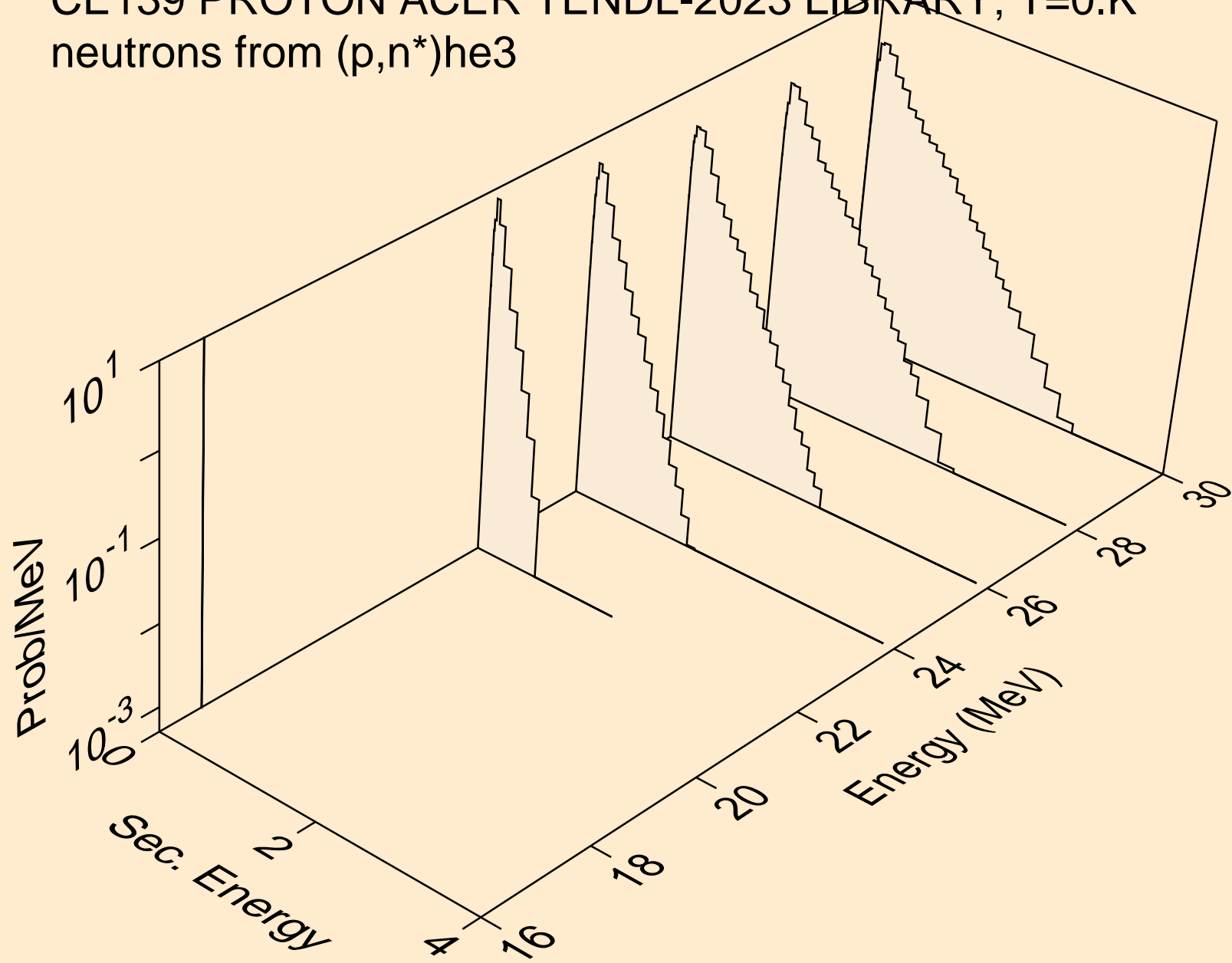


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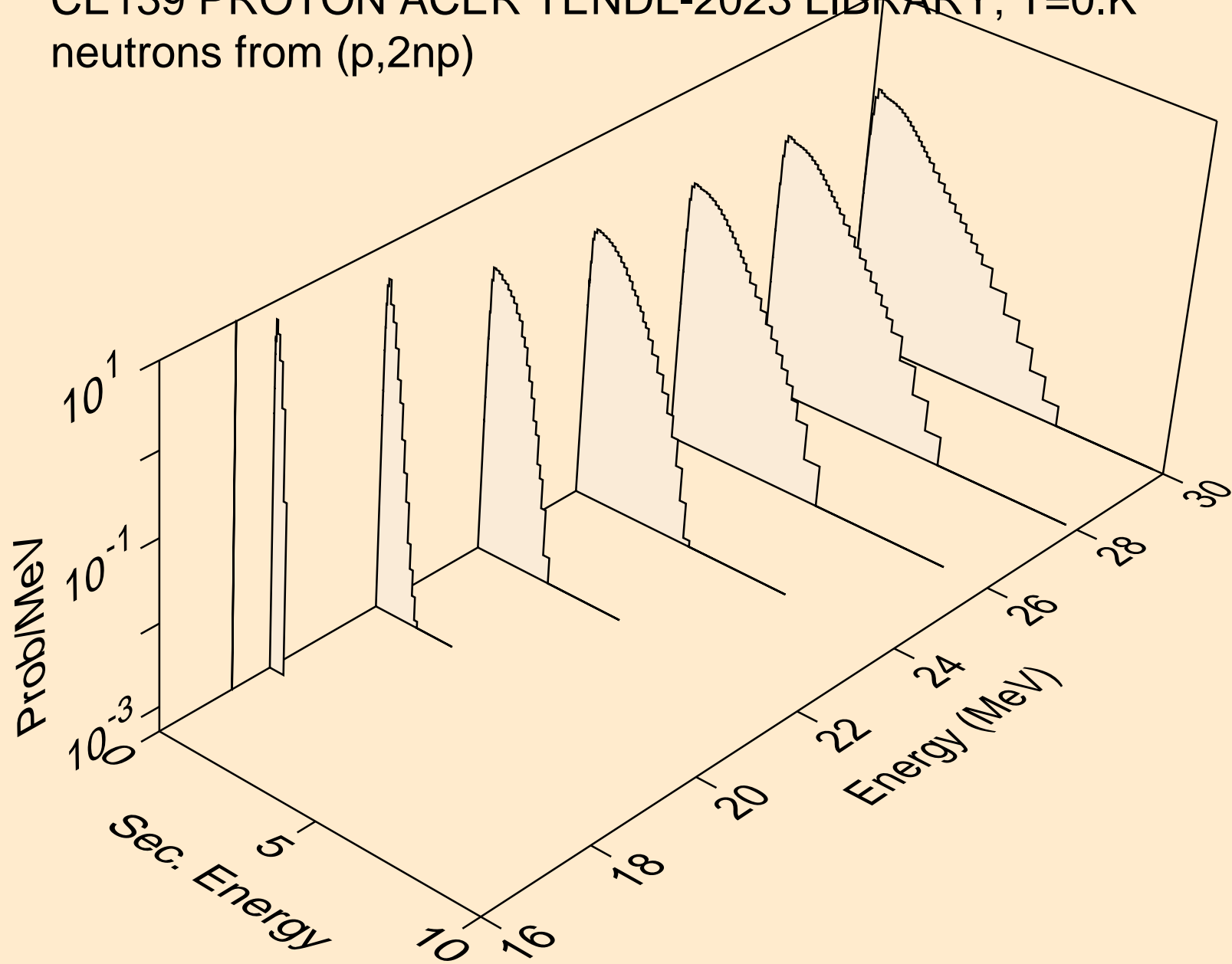




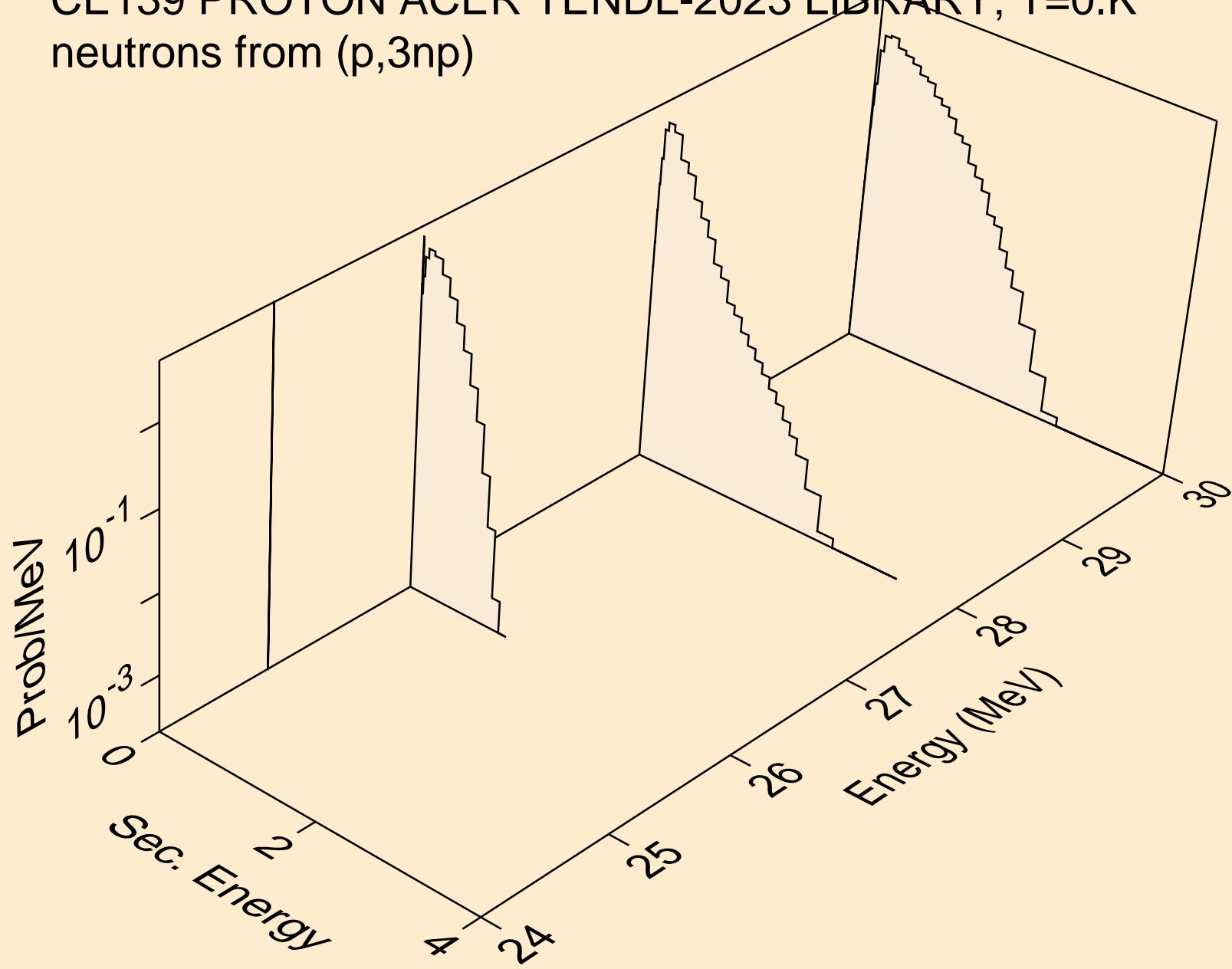
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



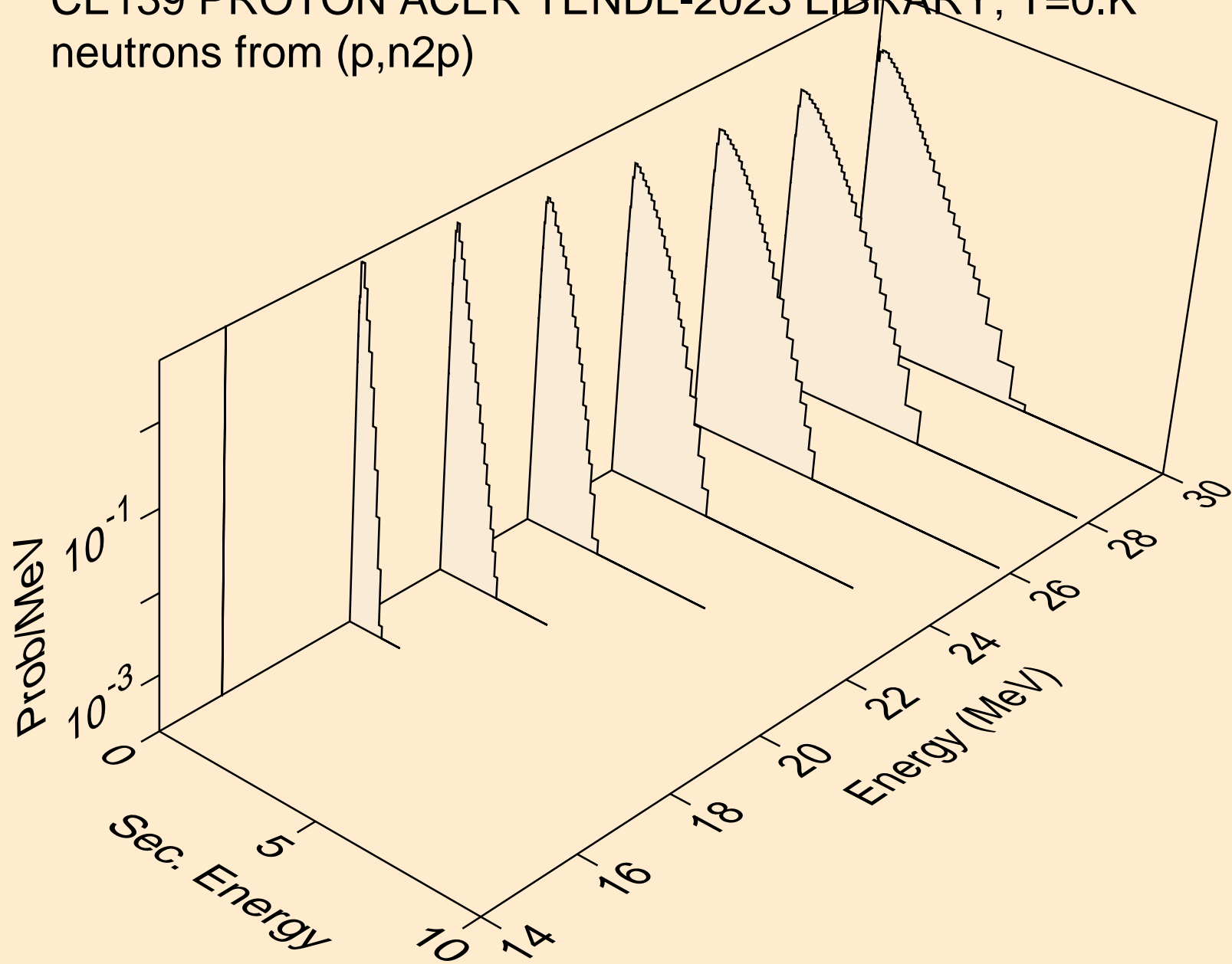
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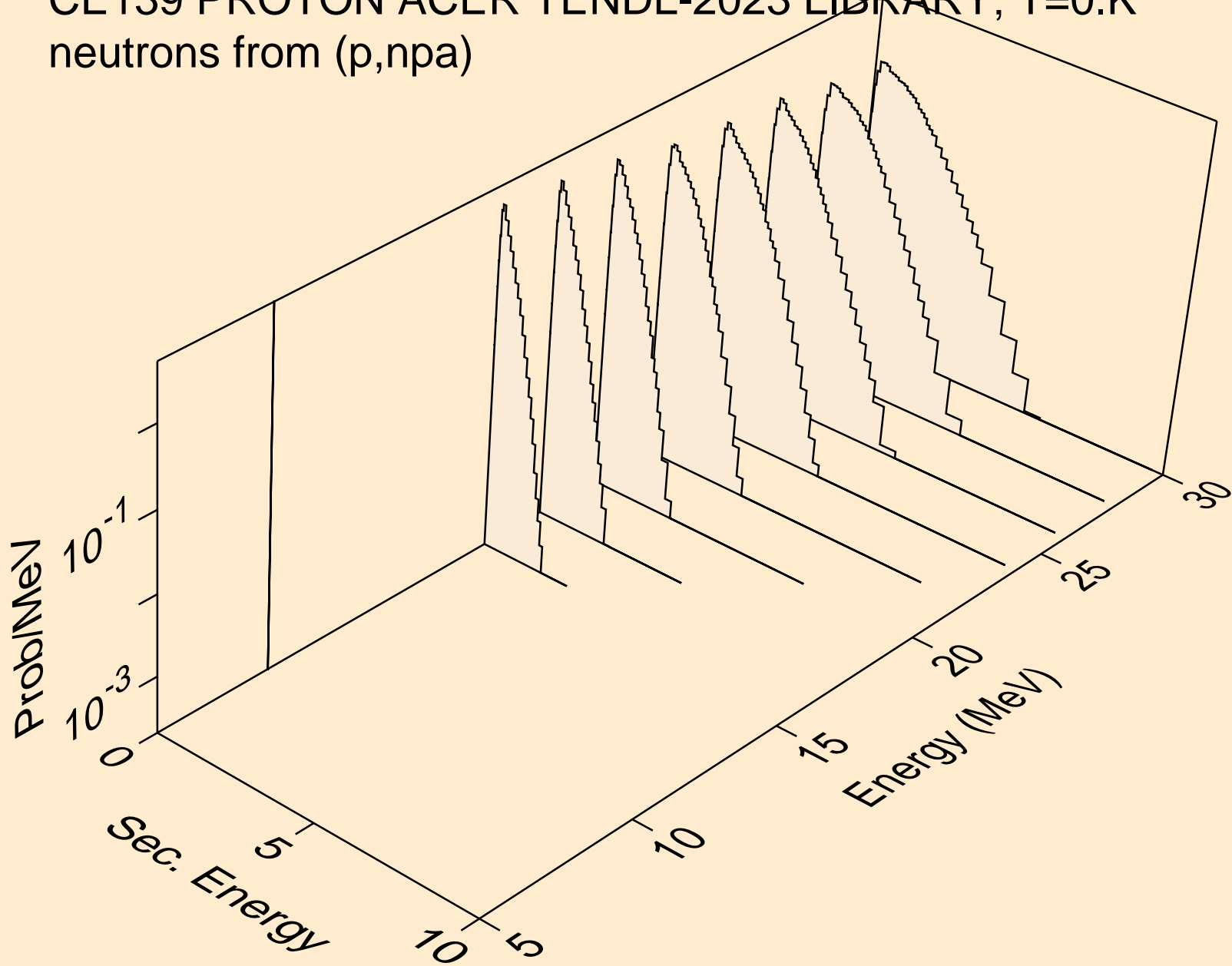
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neutrons from (p,3np)



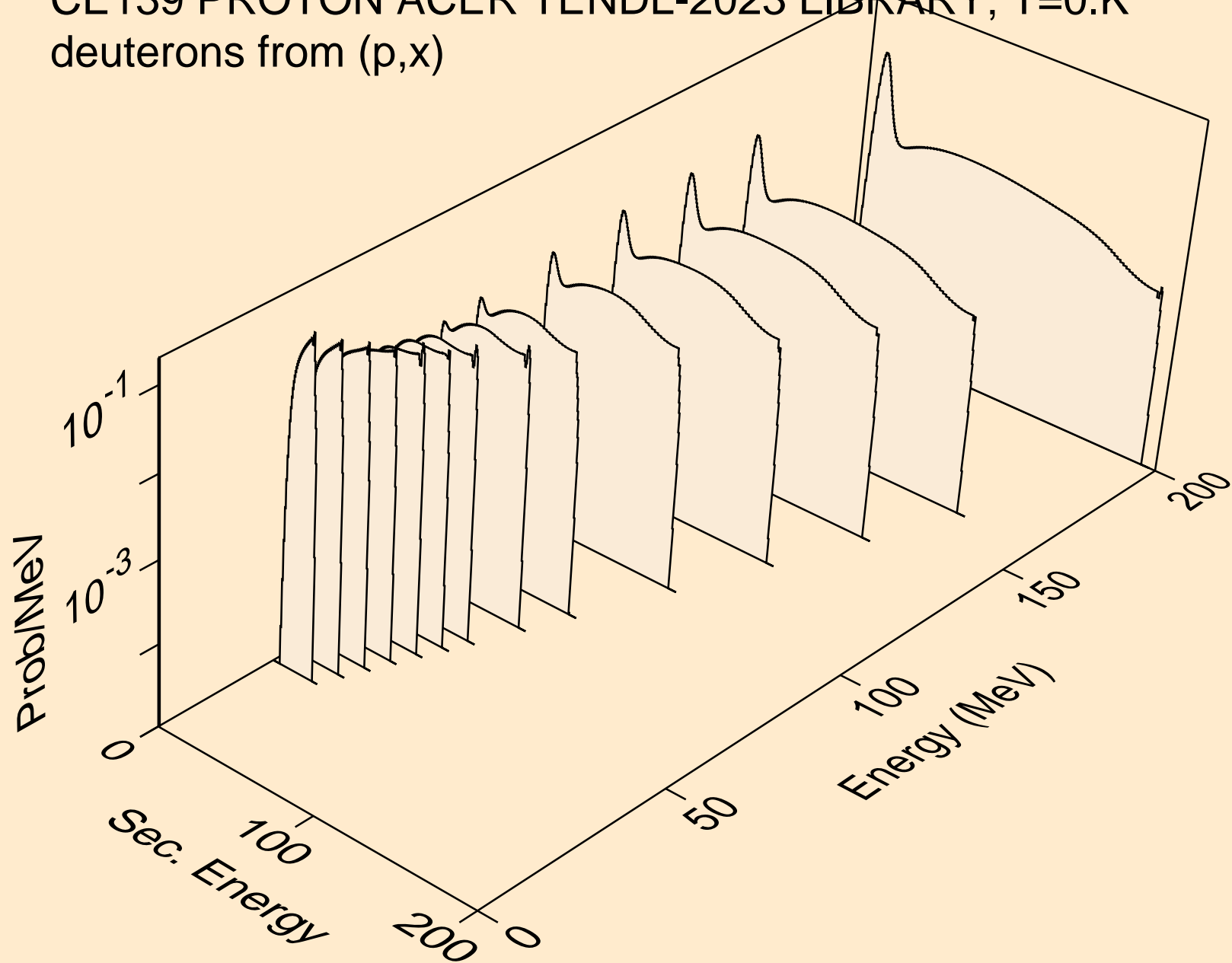
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neutrons from (p,n2p)



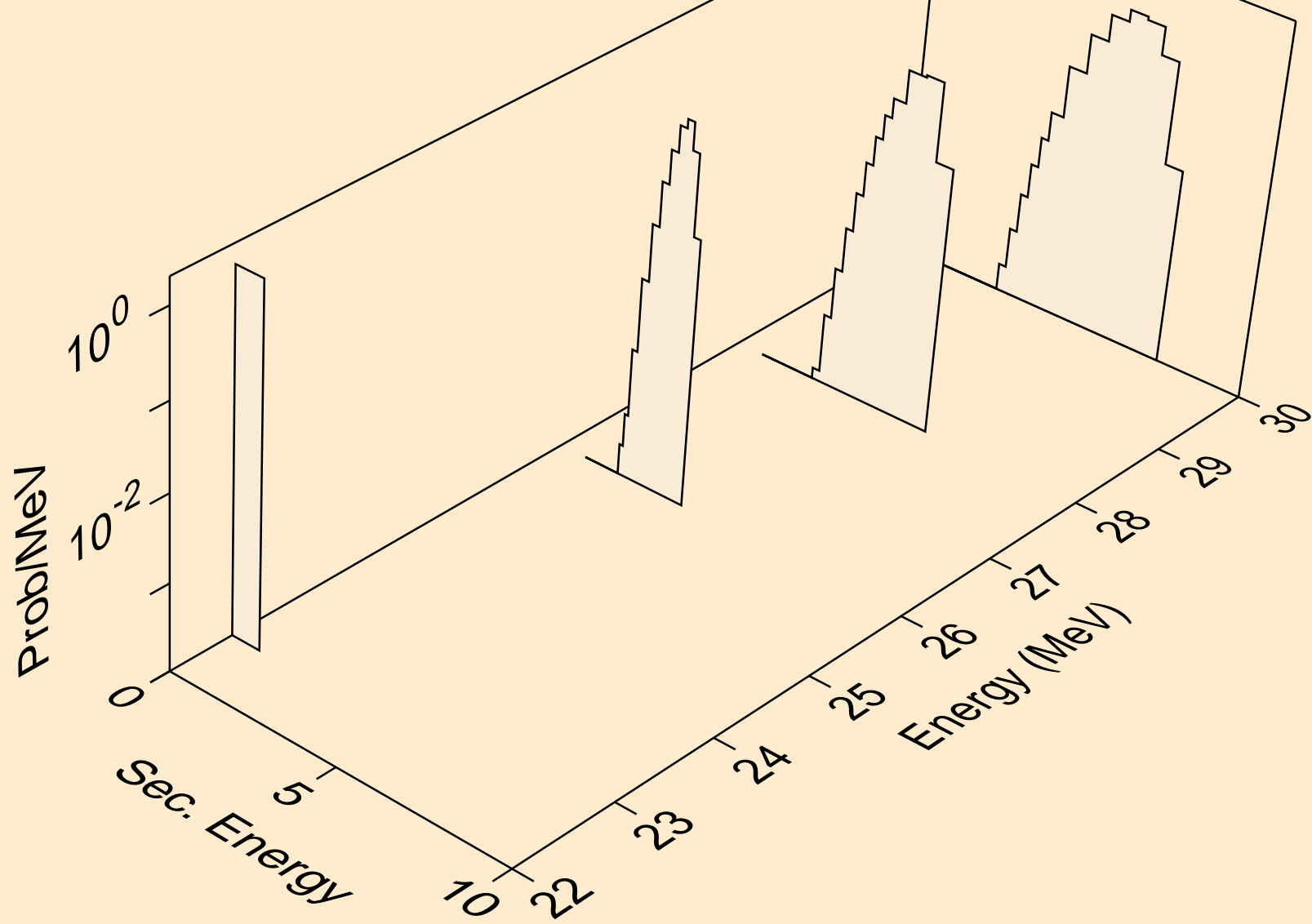
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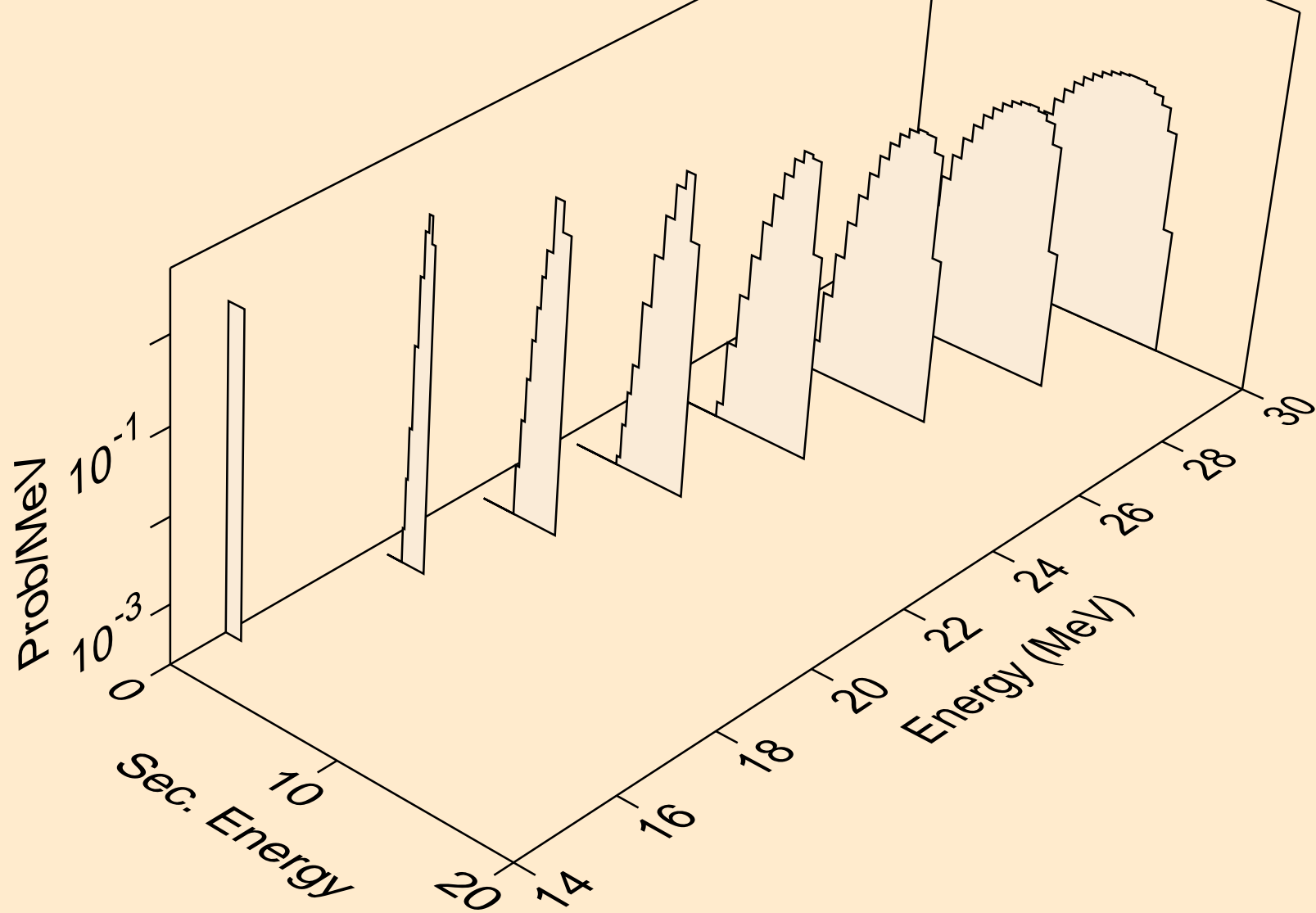
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,2nd)

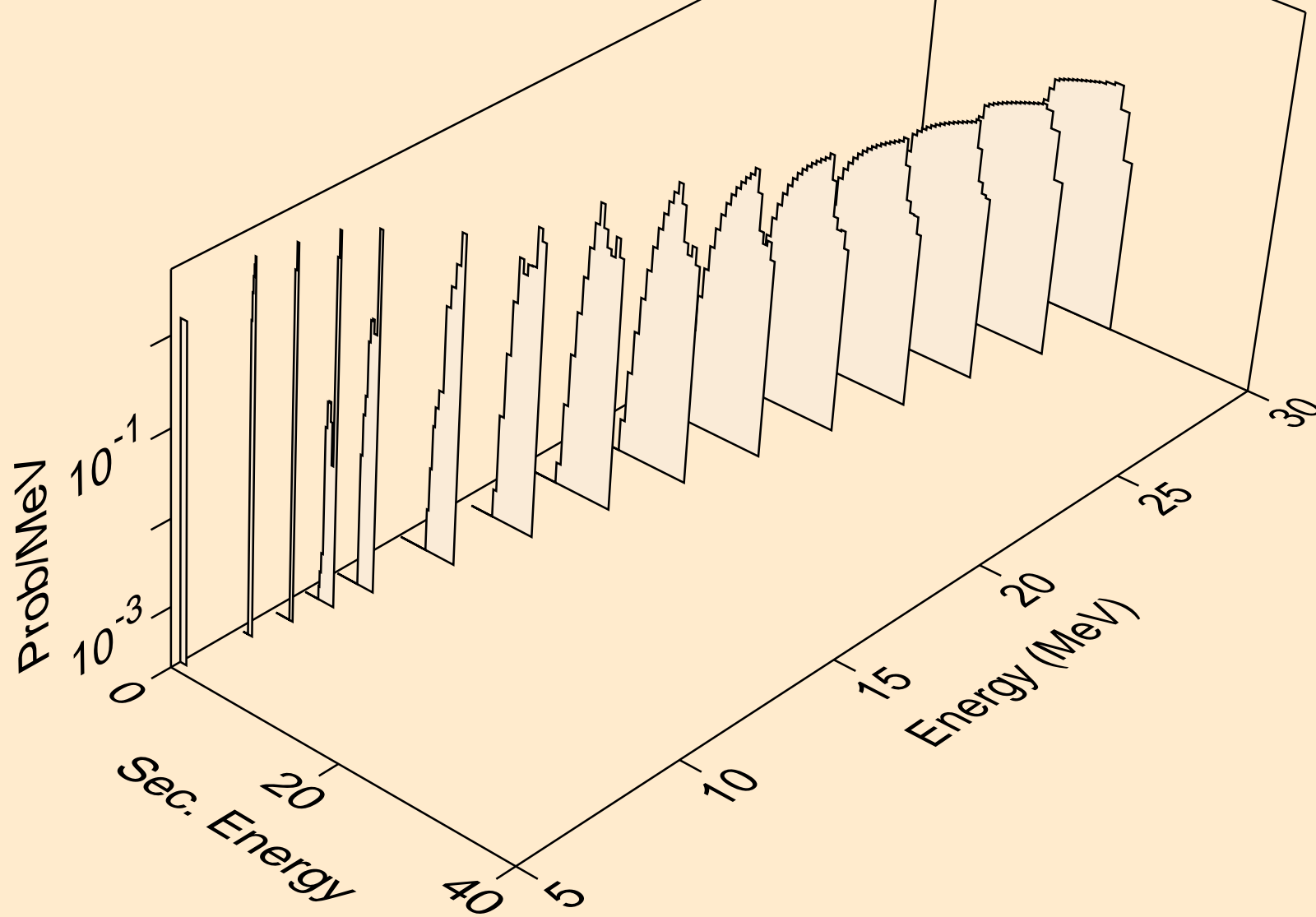


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d

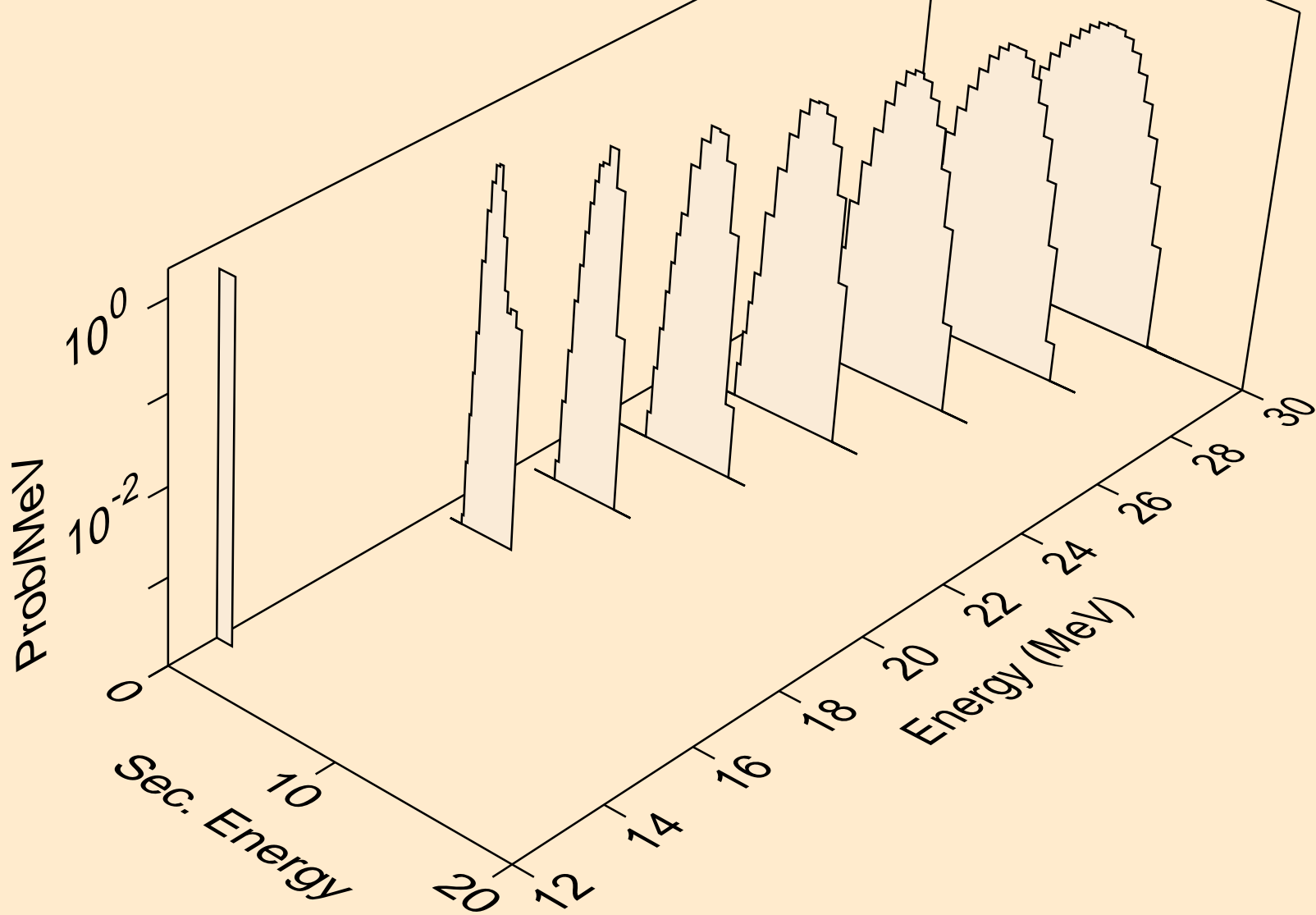




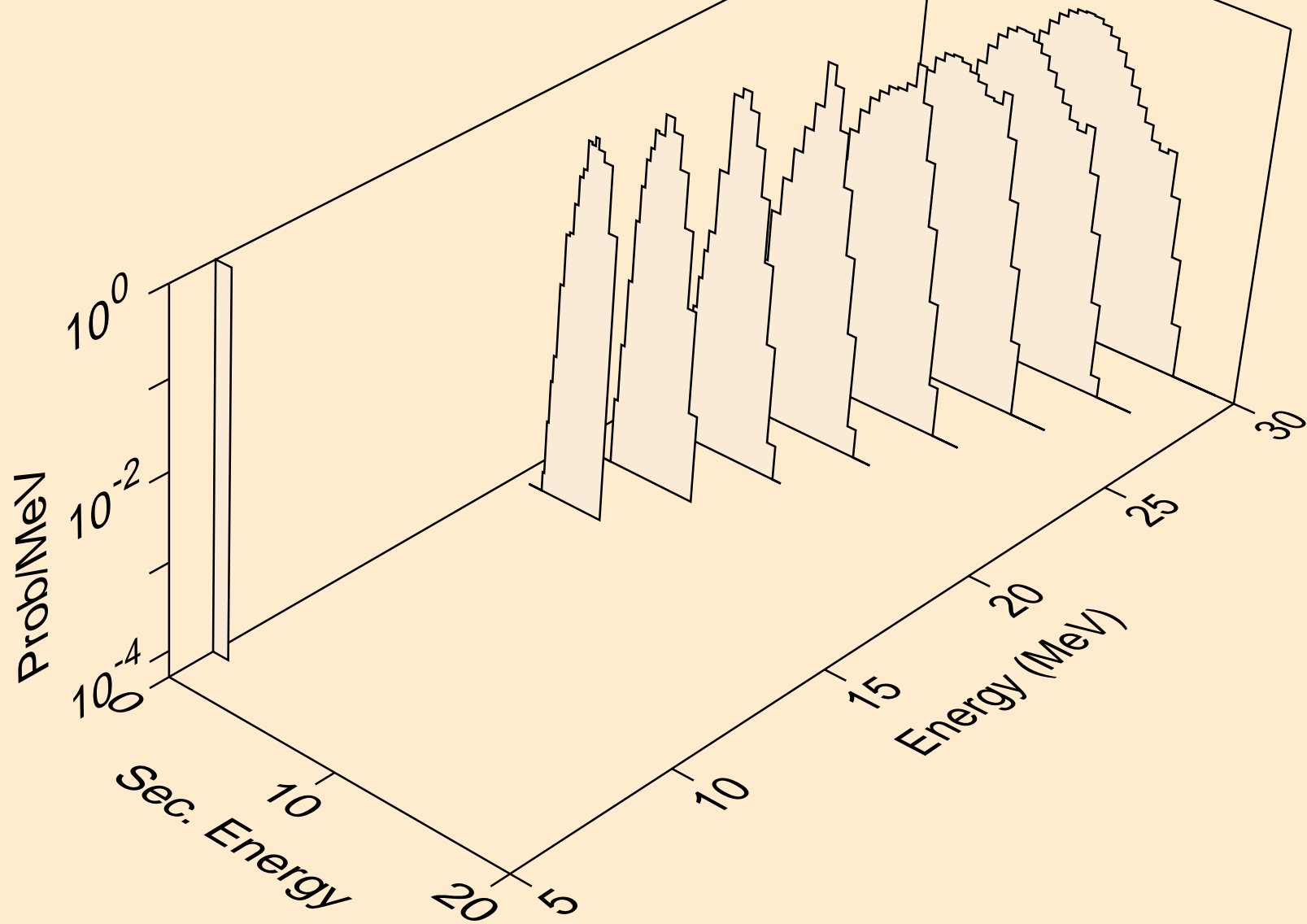
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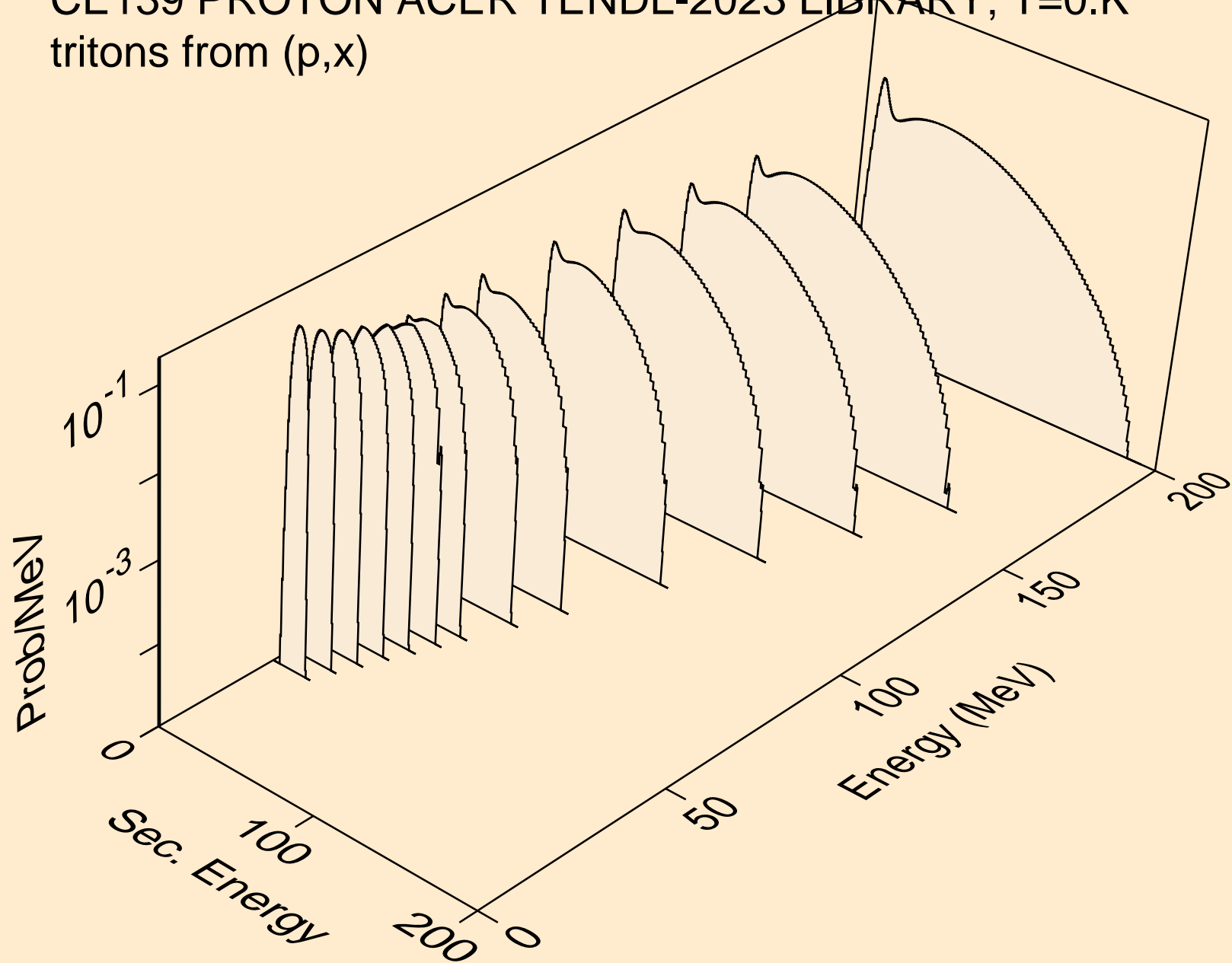
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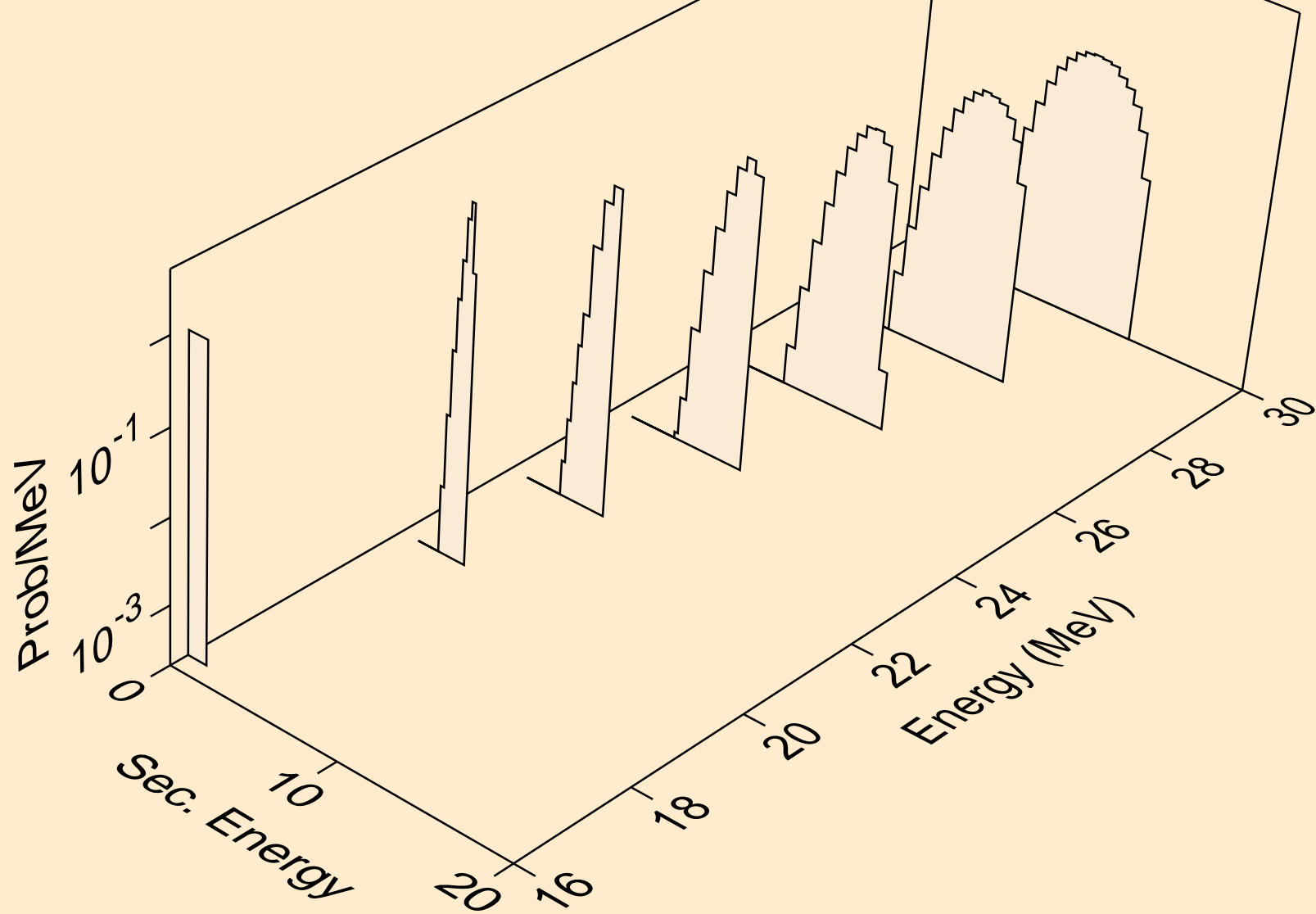
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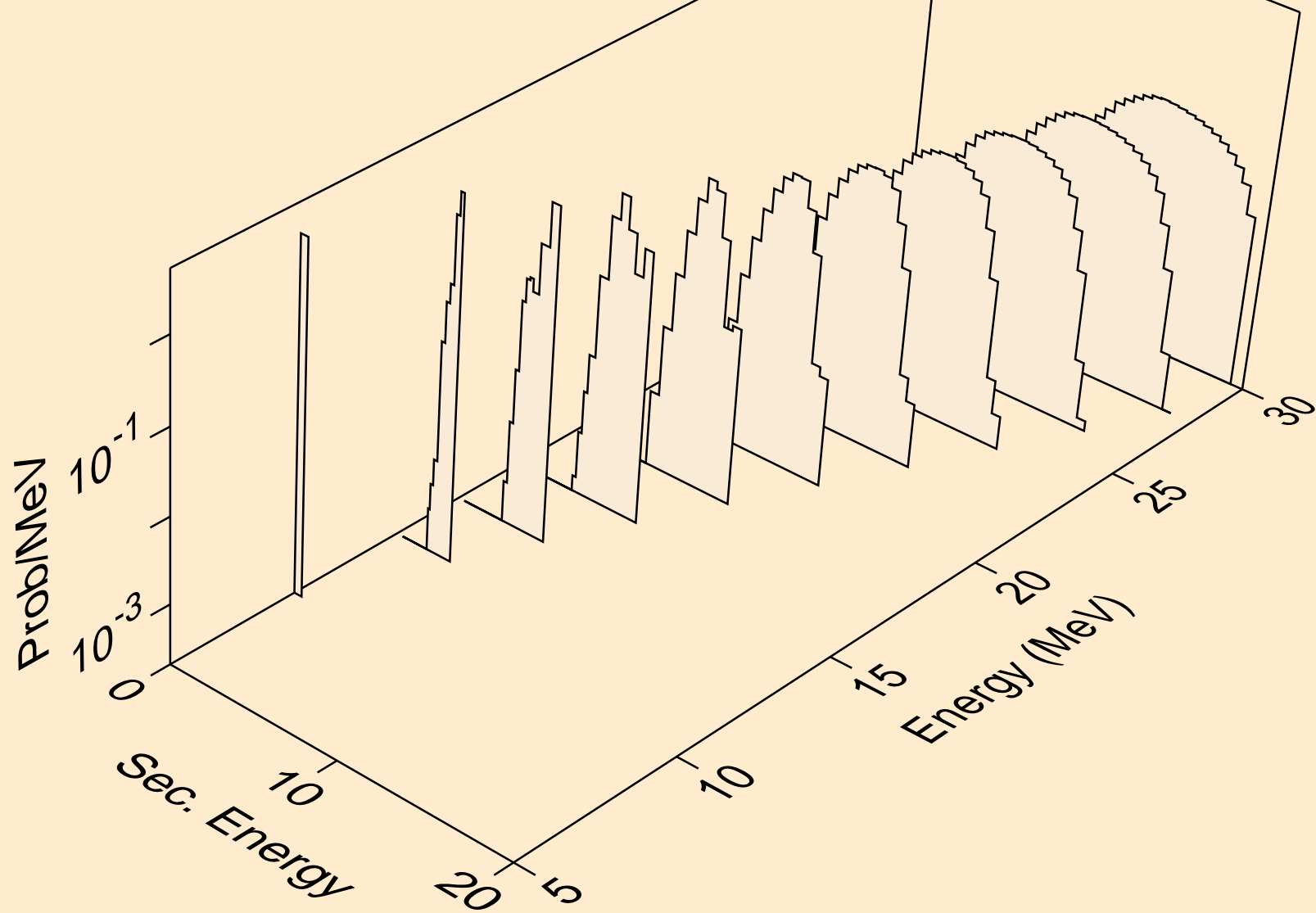
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tritons from (p,x)



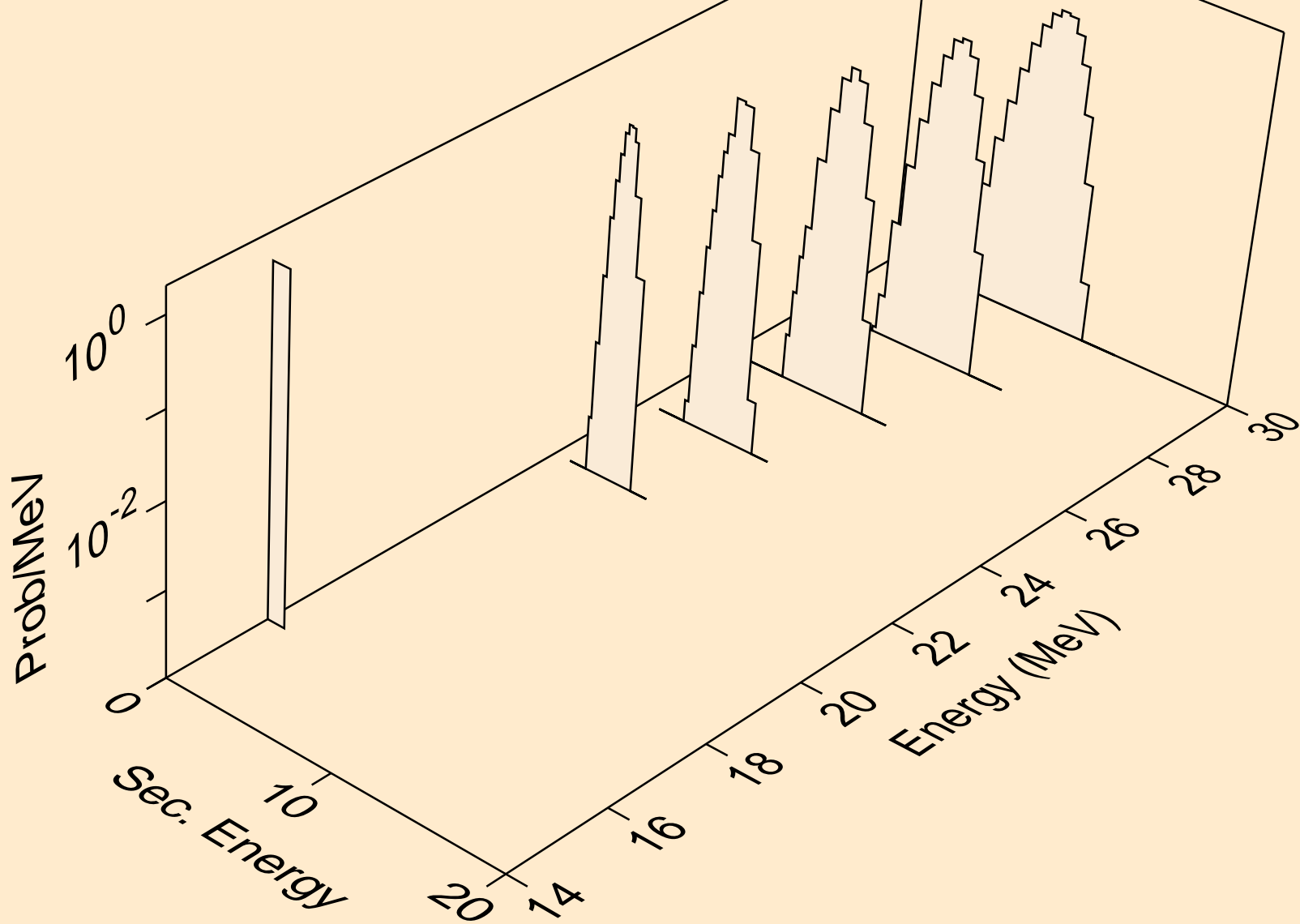
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tritons from (p,n\*)t



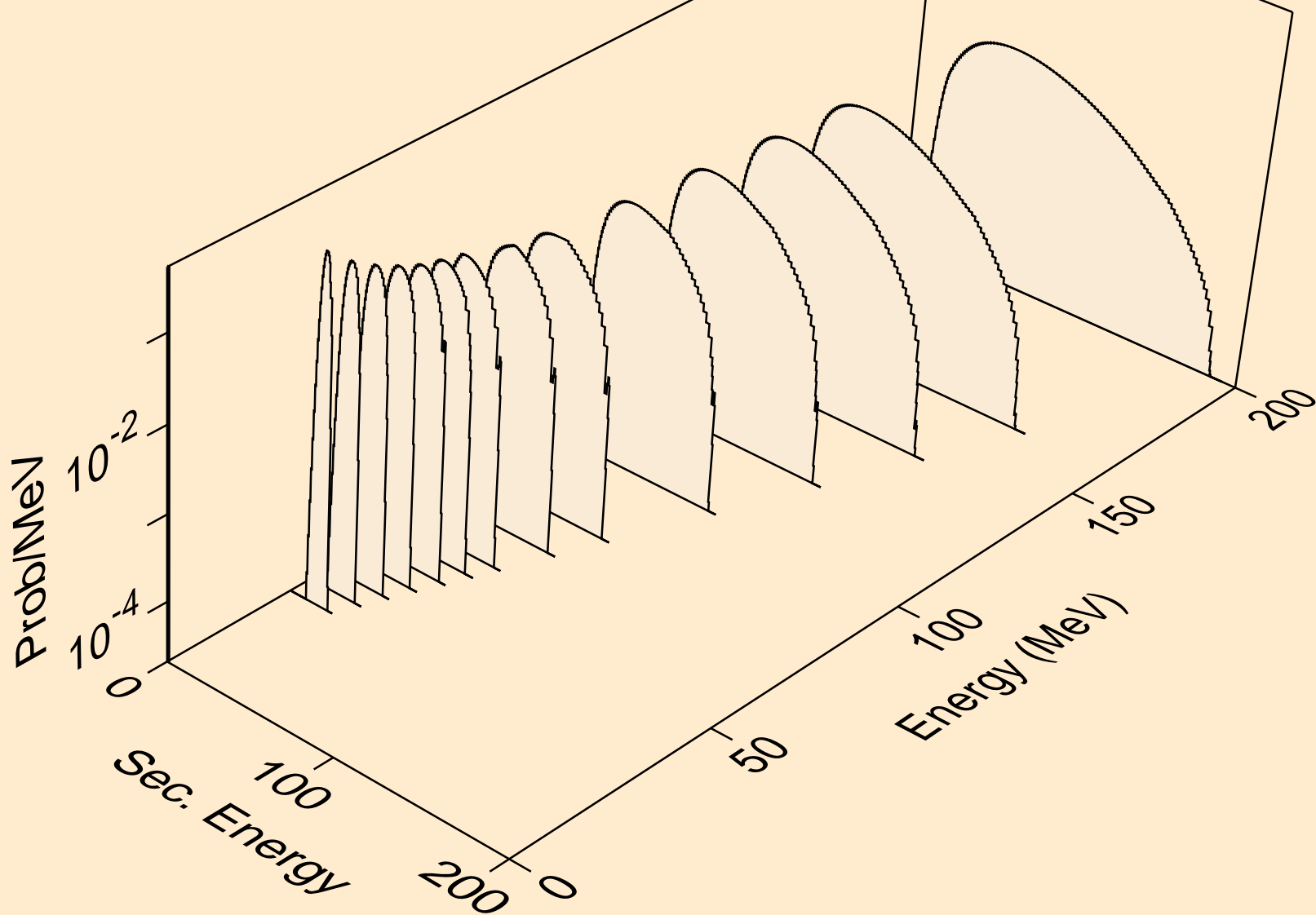
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tritons from (p,t)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,pt)

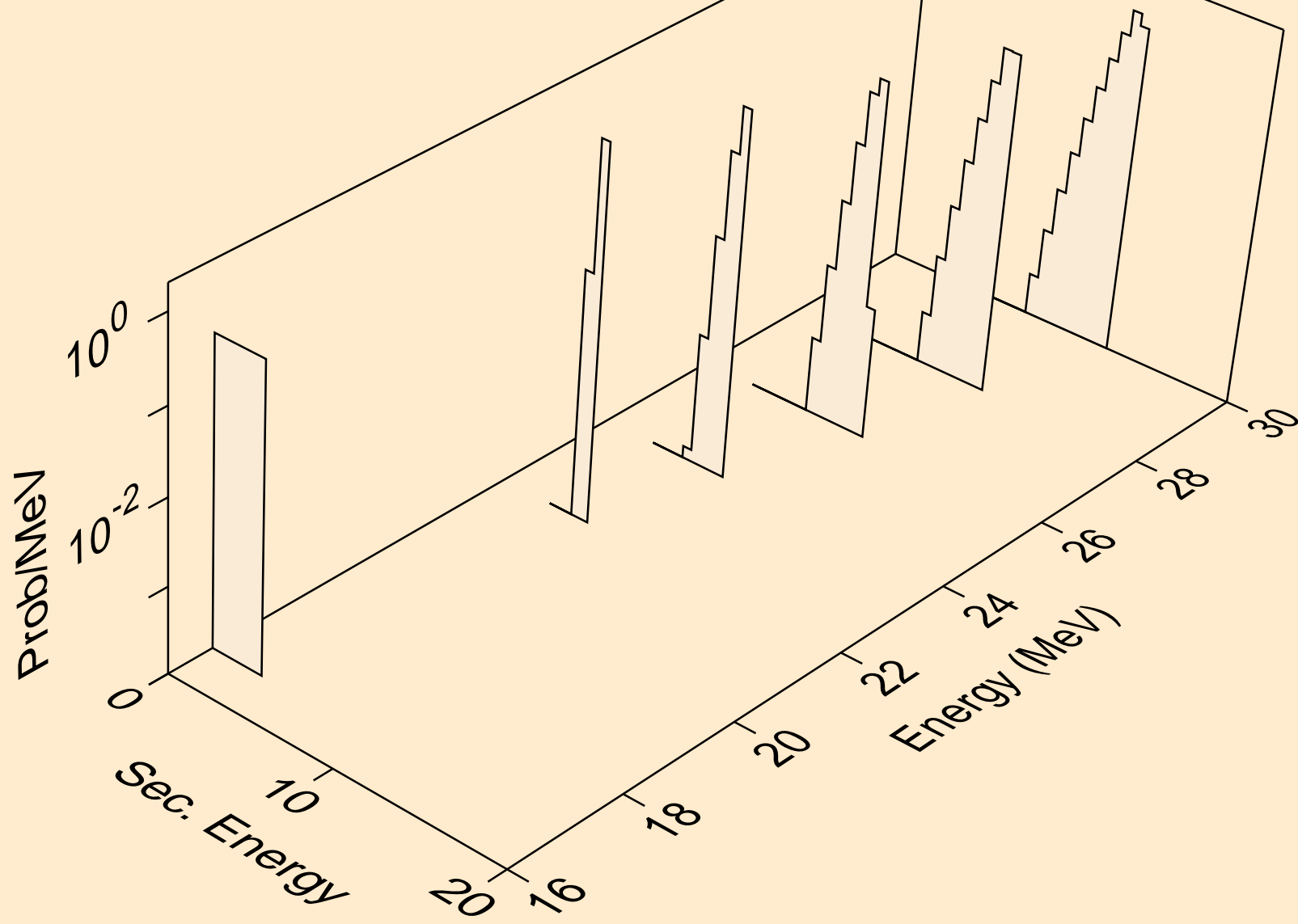


CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)

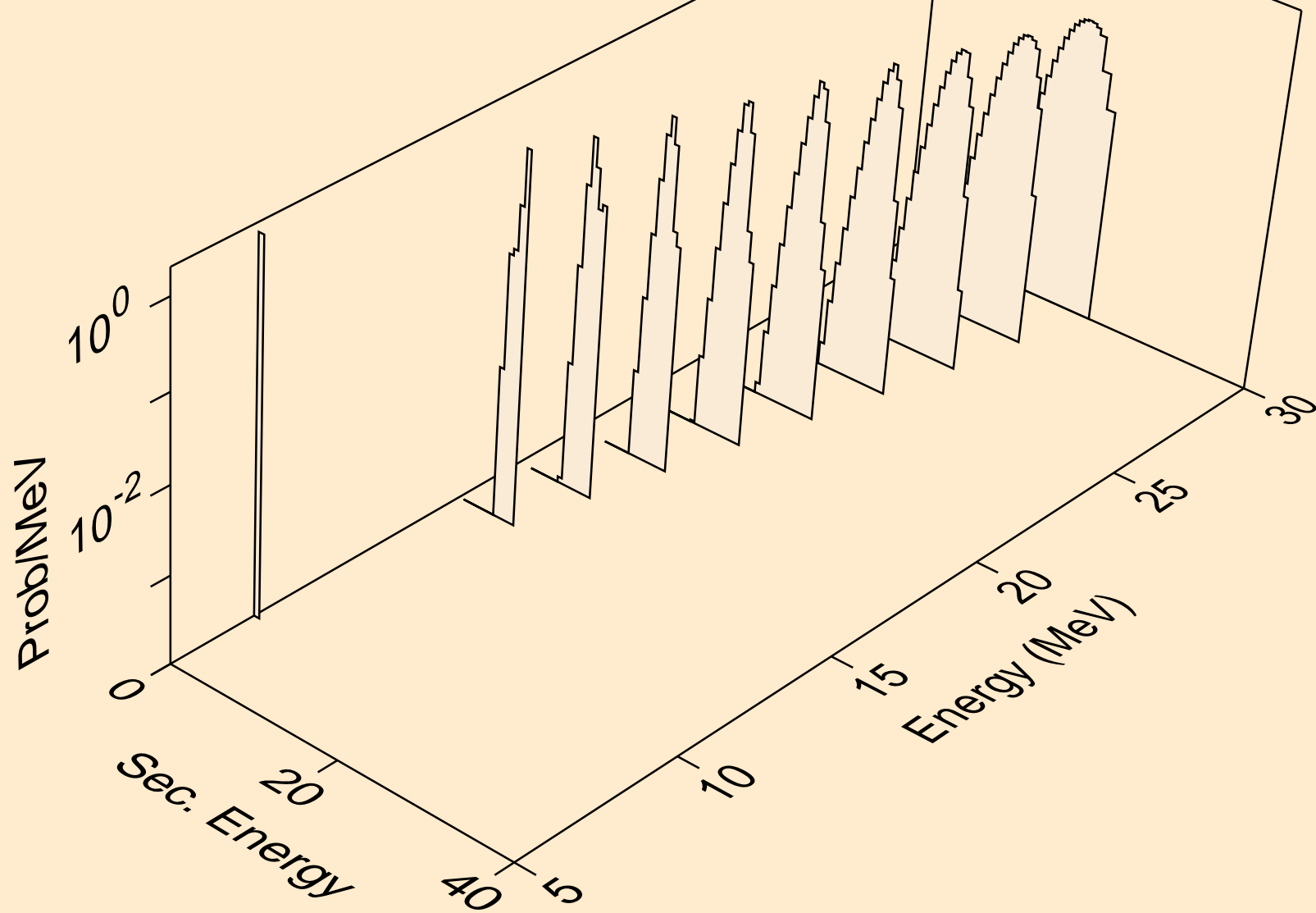




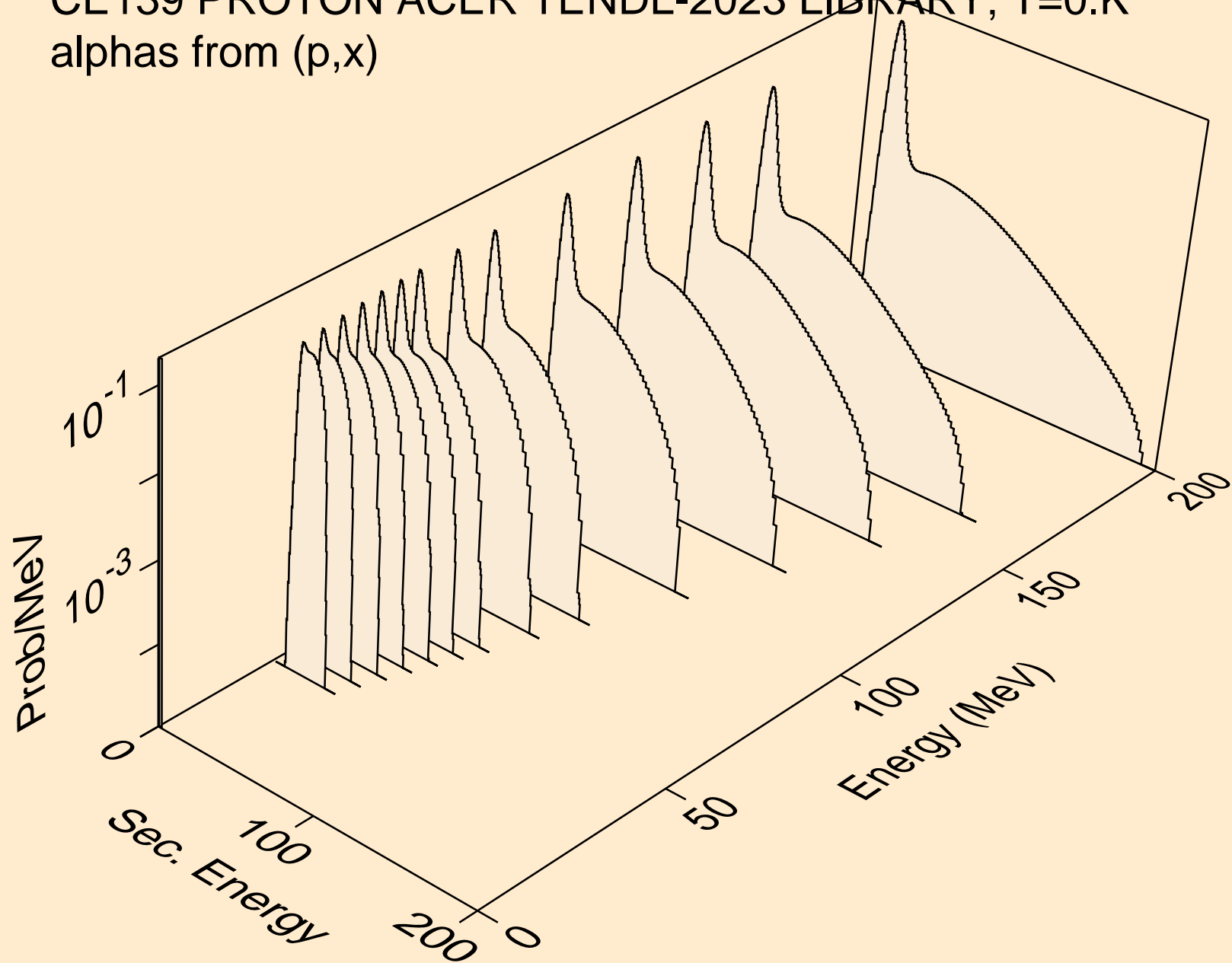
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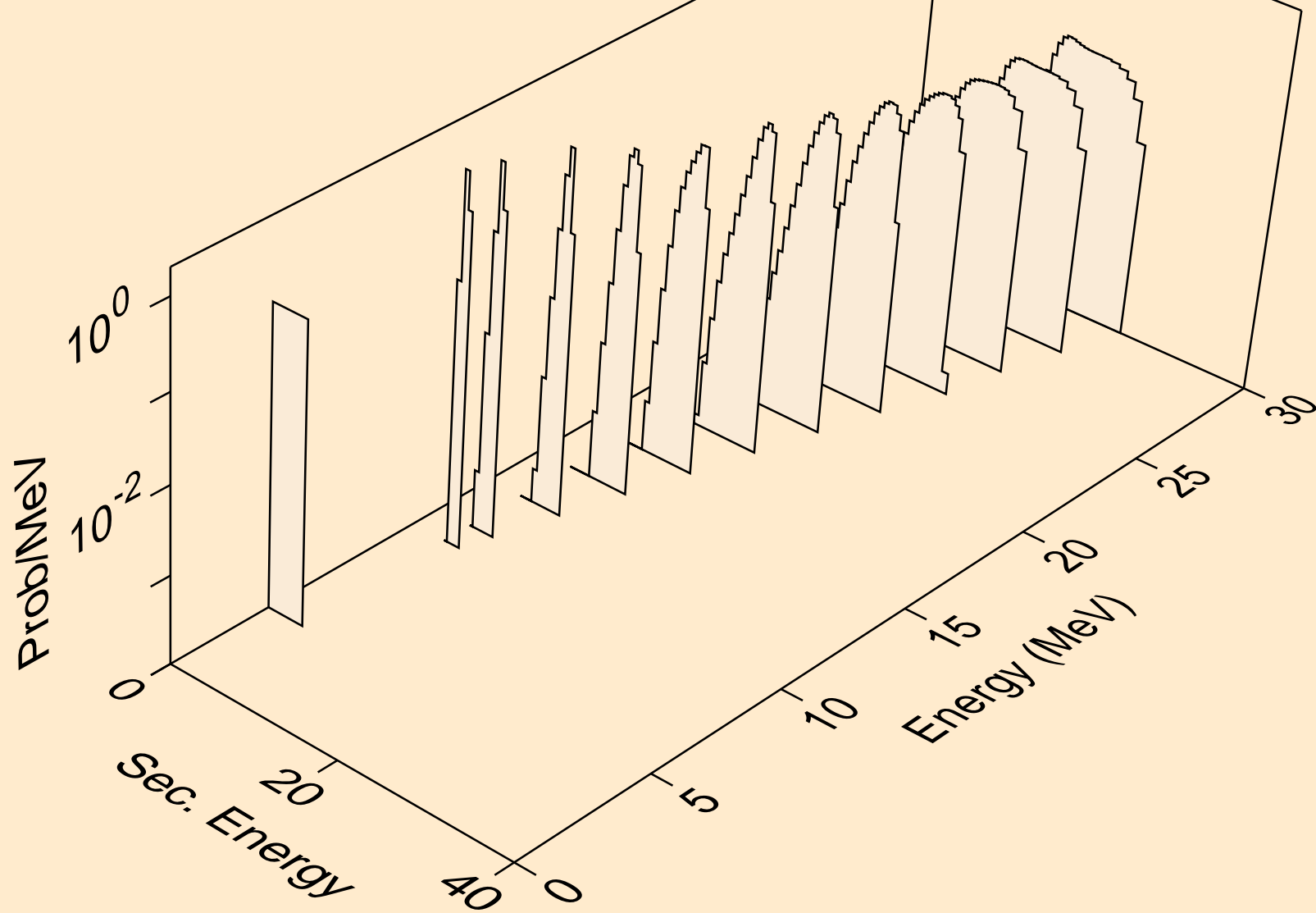
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he3s from (p,he3)



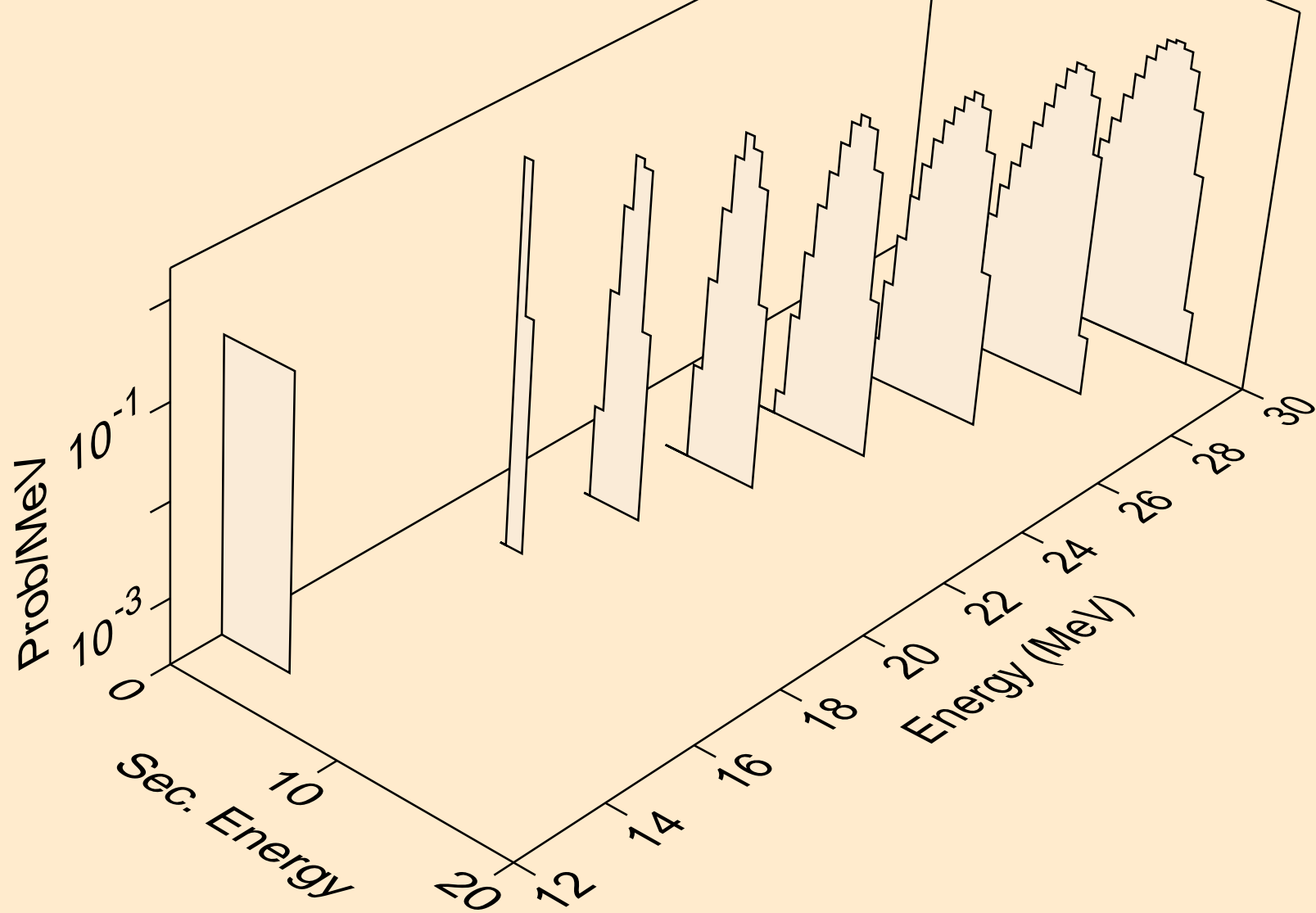
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



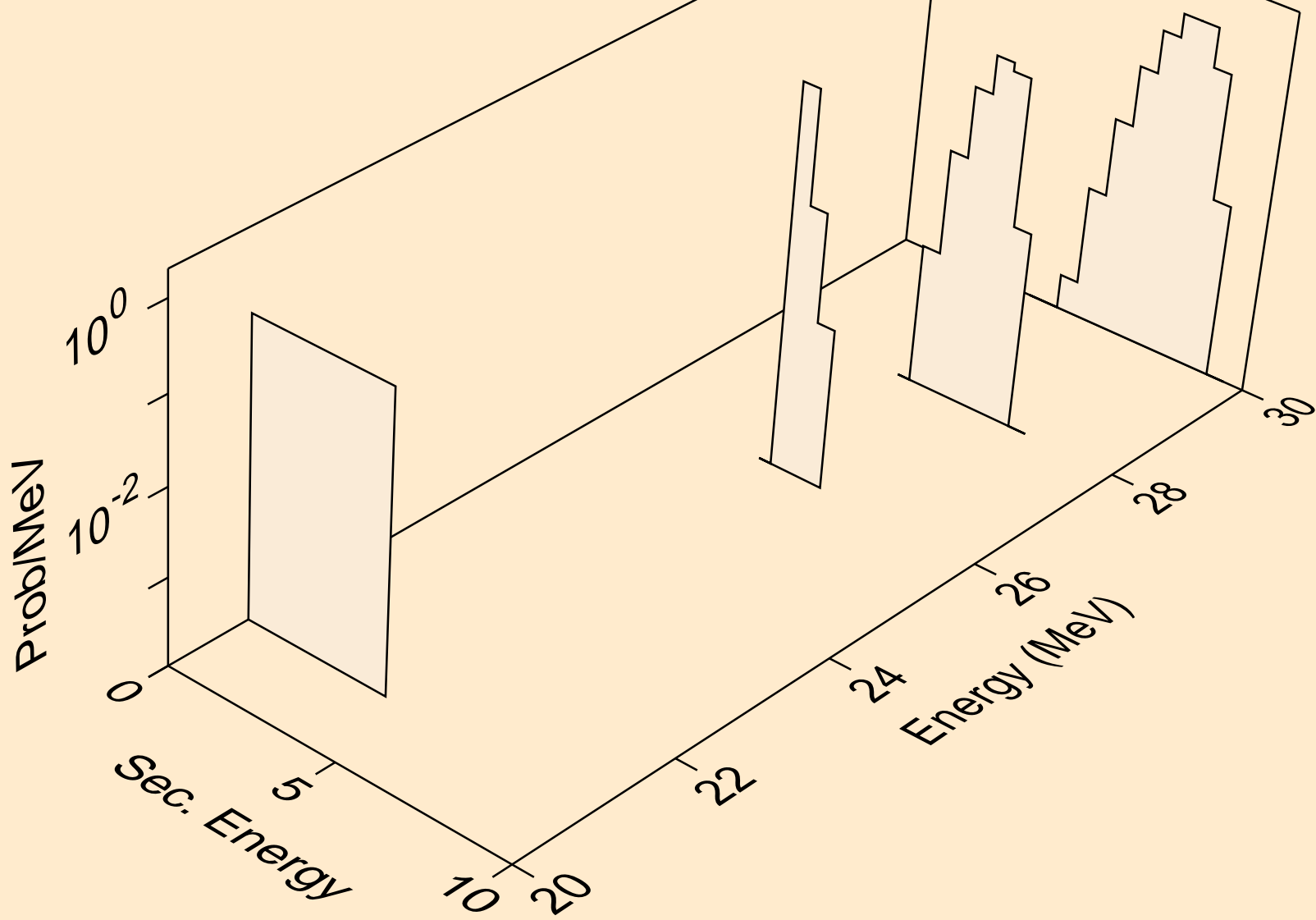
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



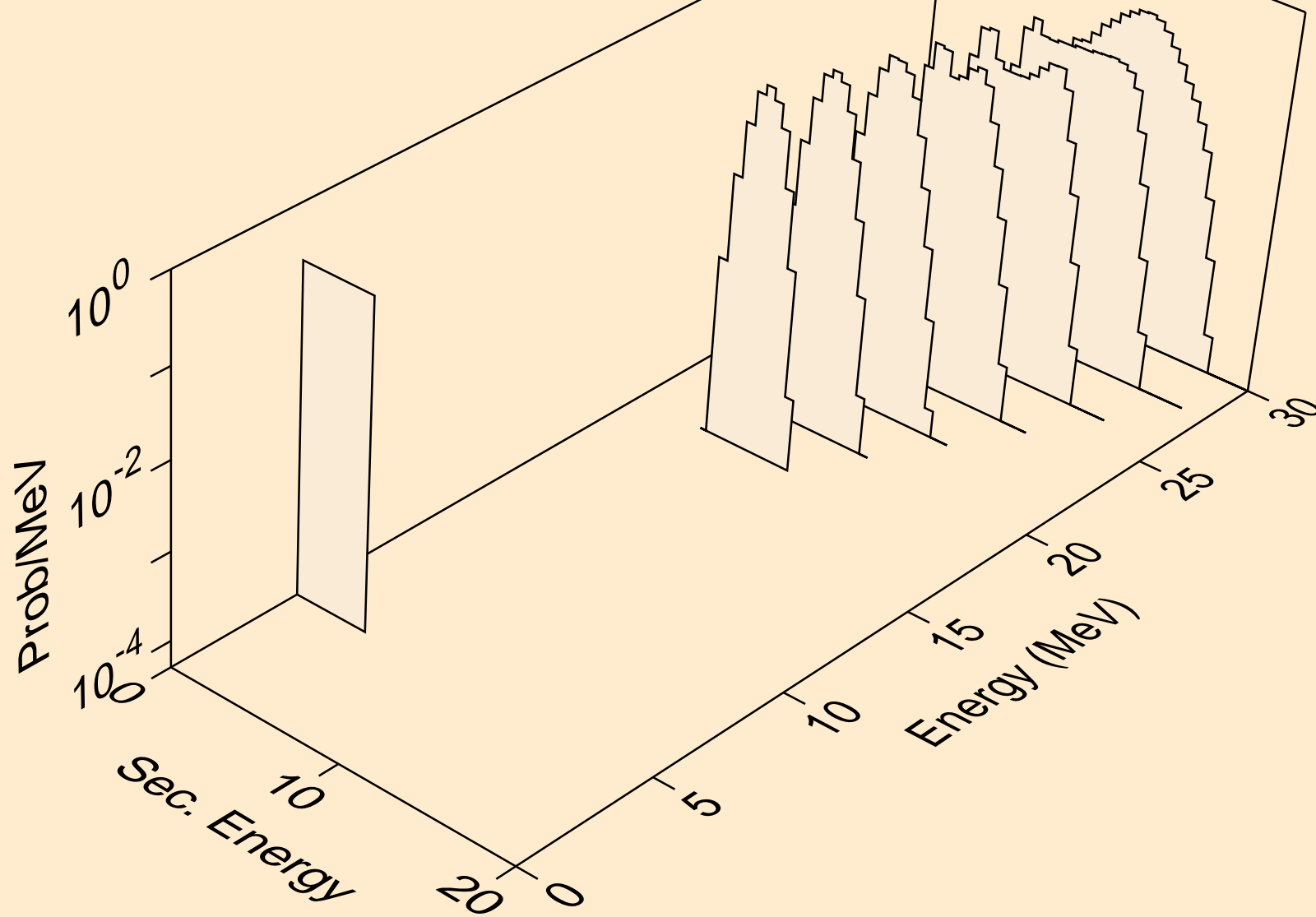
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alphas from (p,2n)a



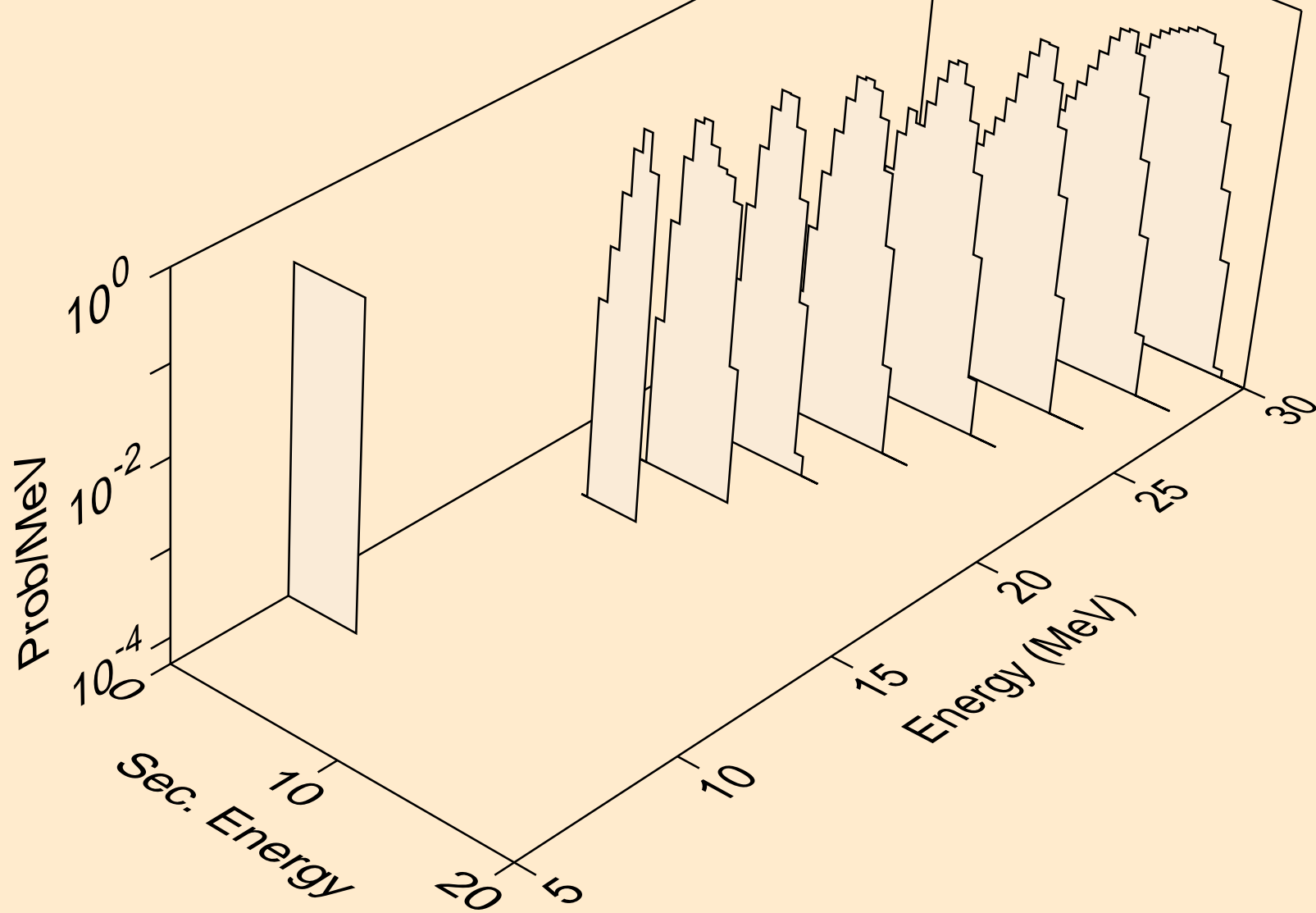
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a

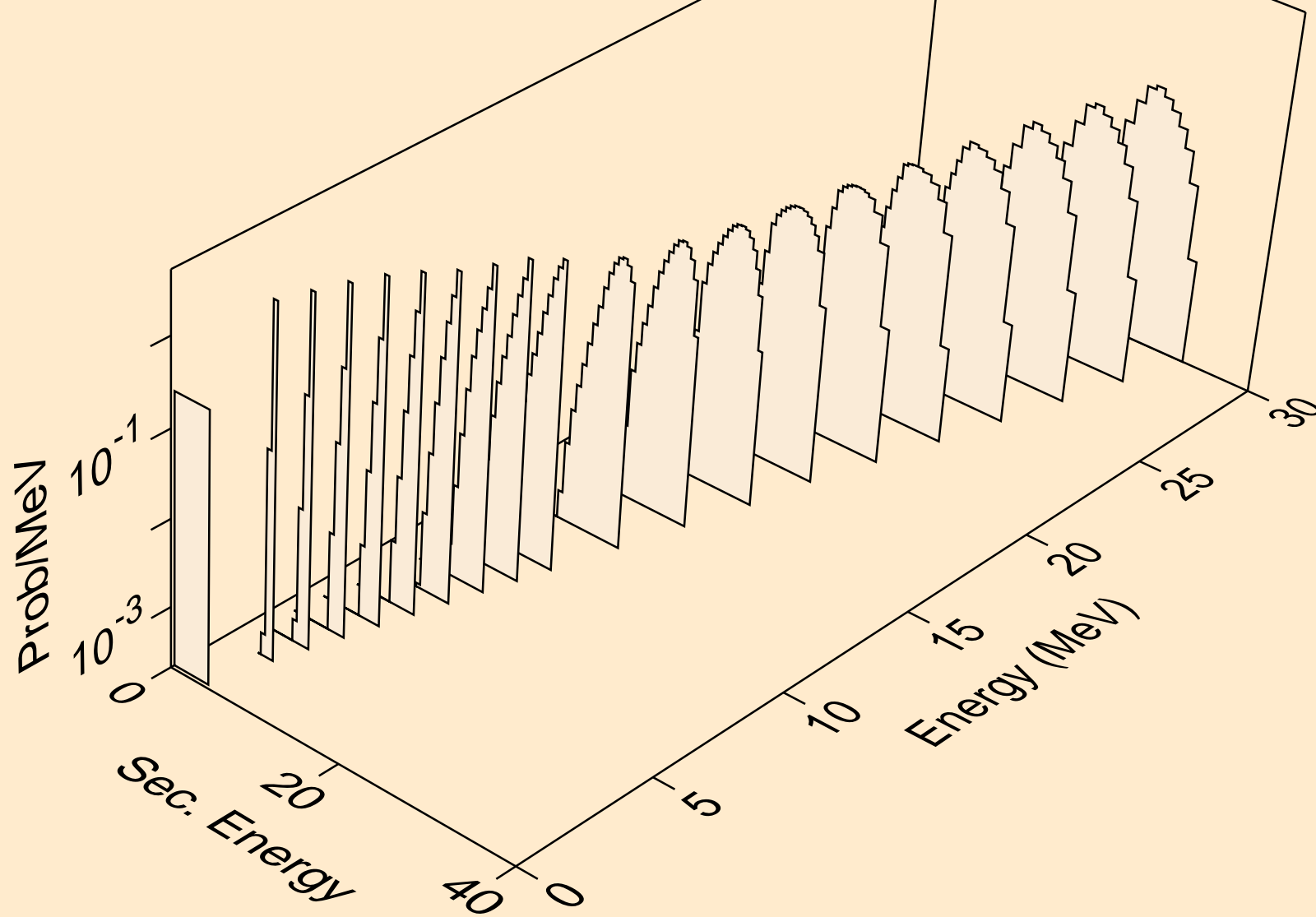


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alphas from (p,npa)

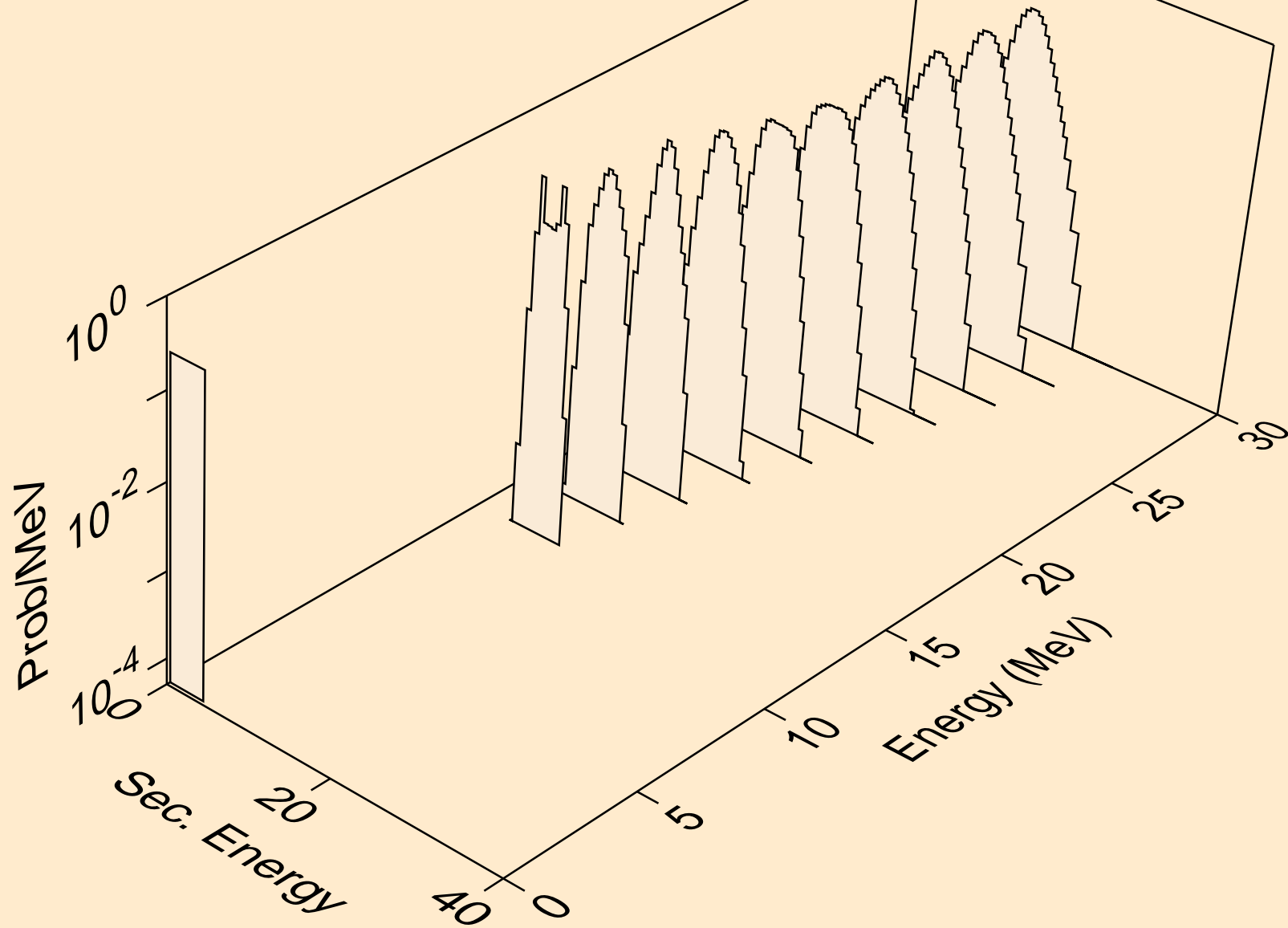




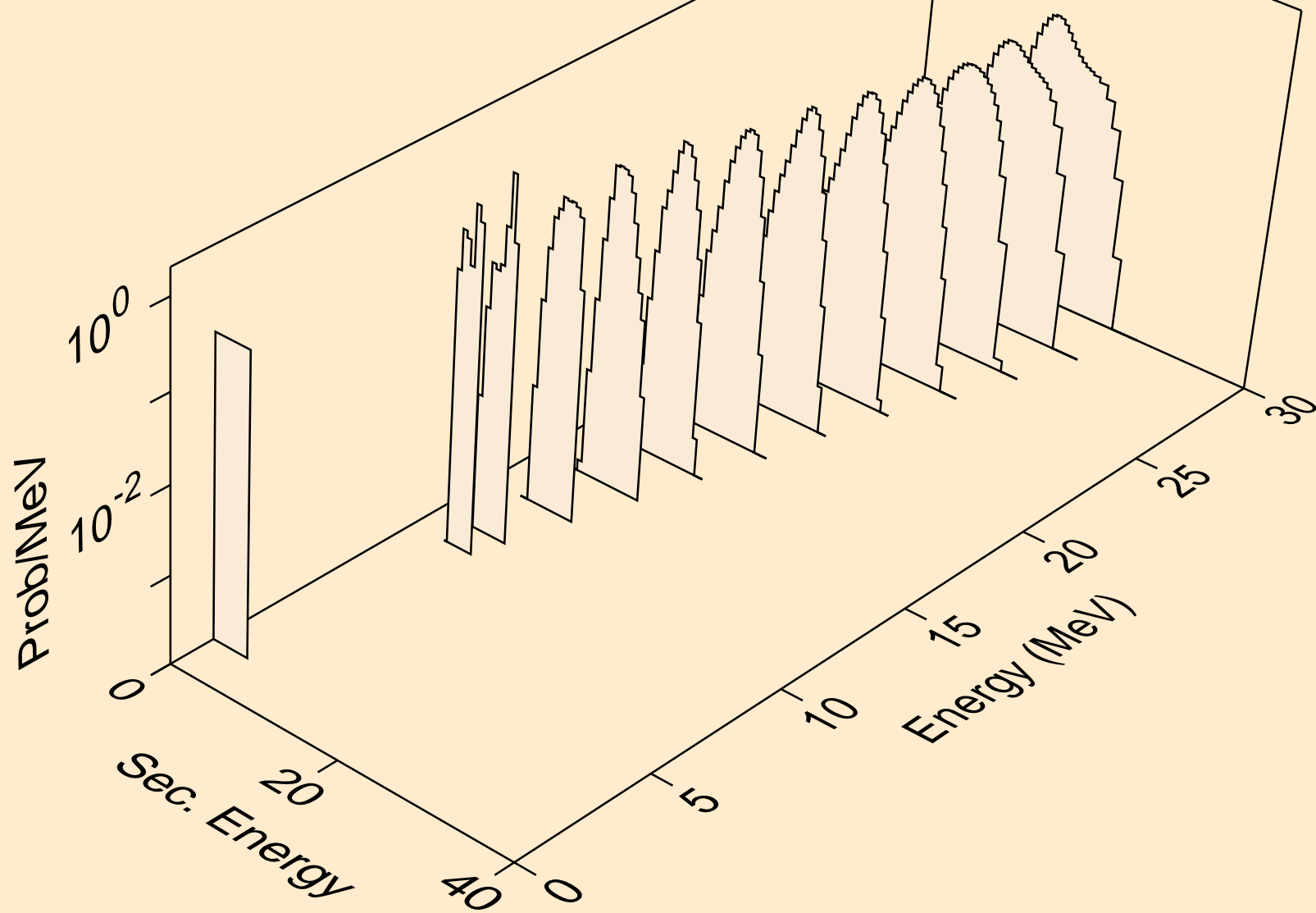
CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



CE139 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

