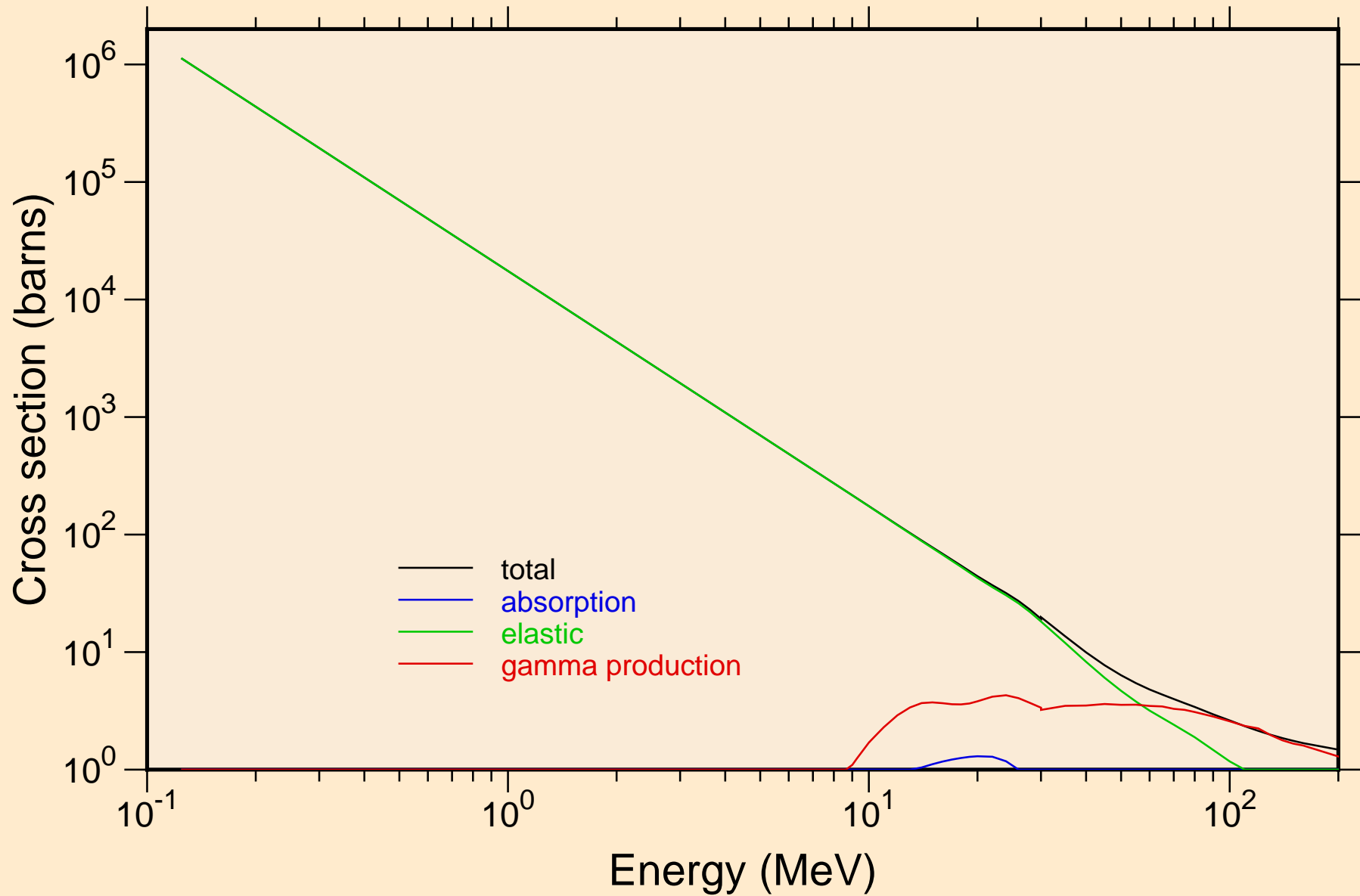
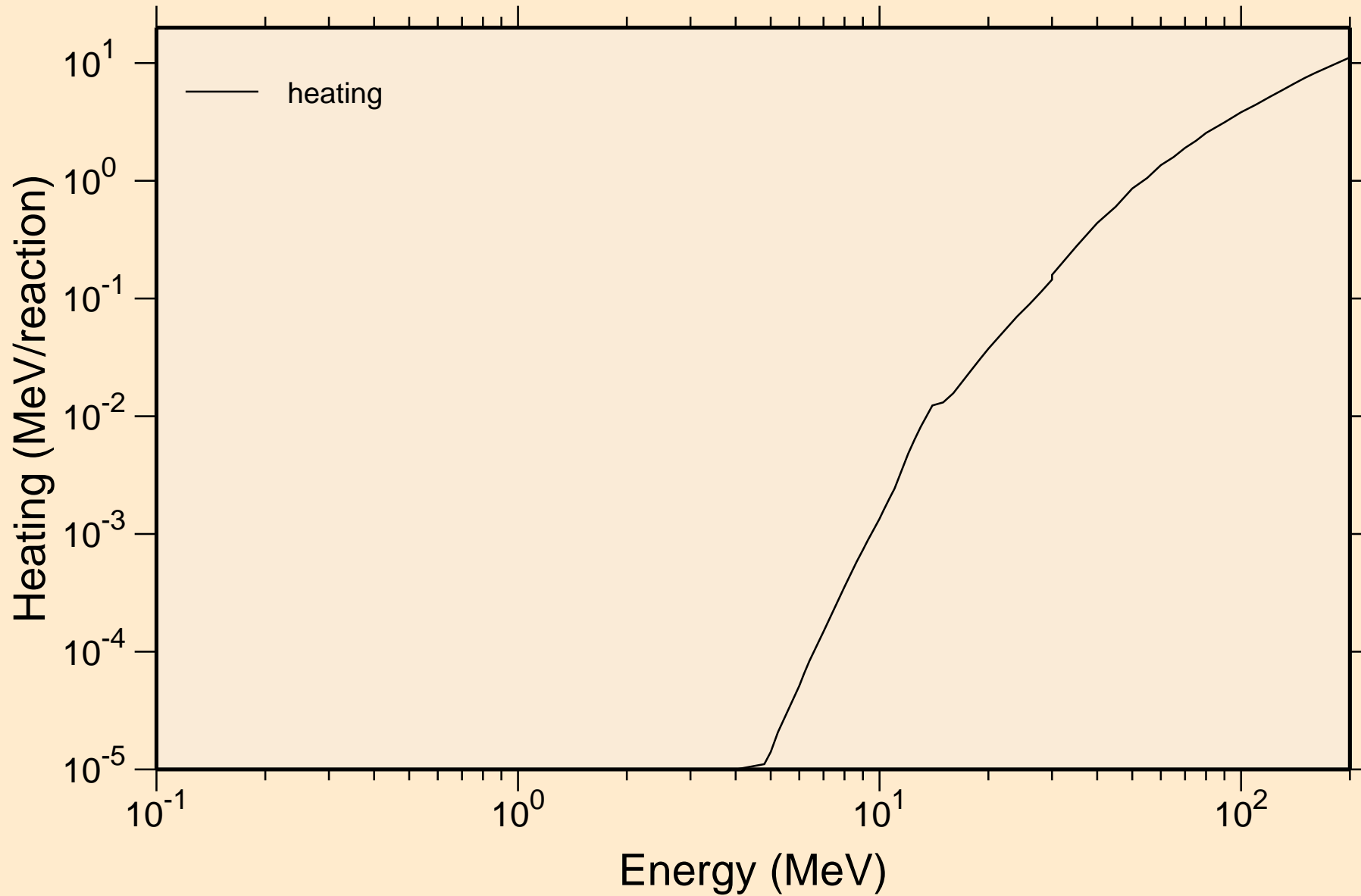


# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections

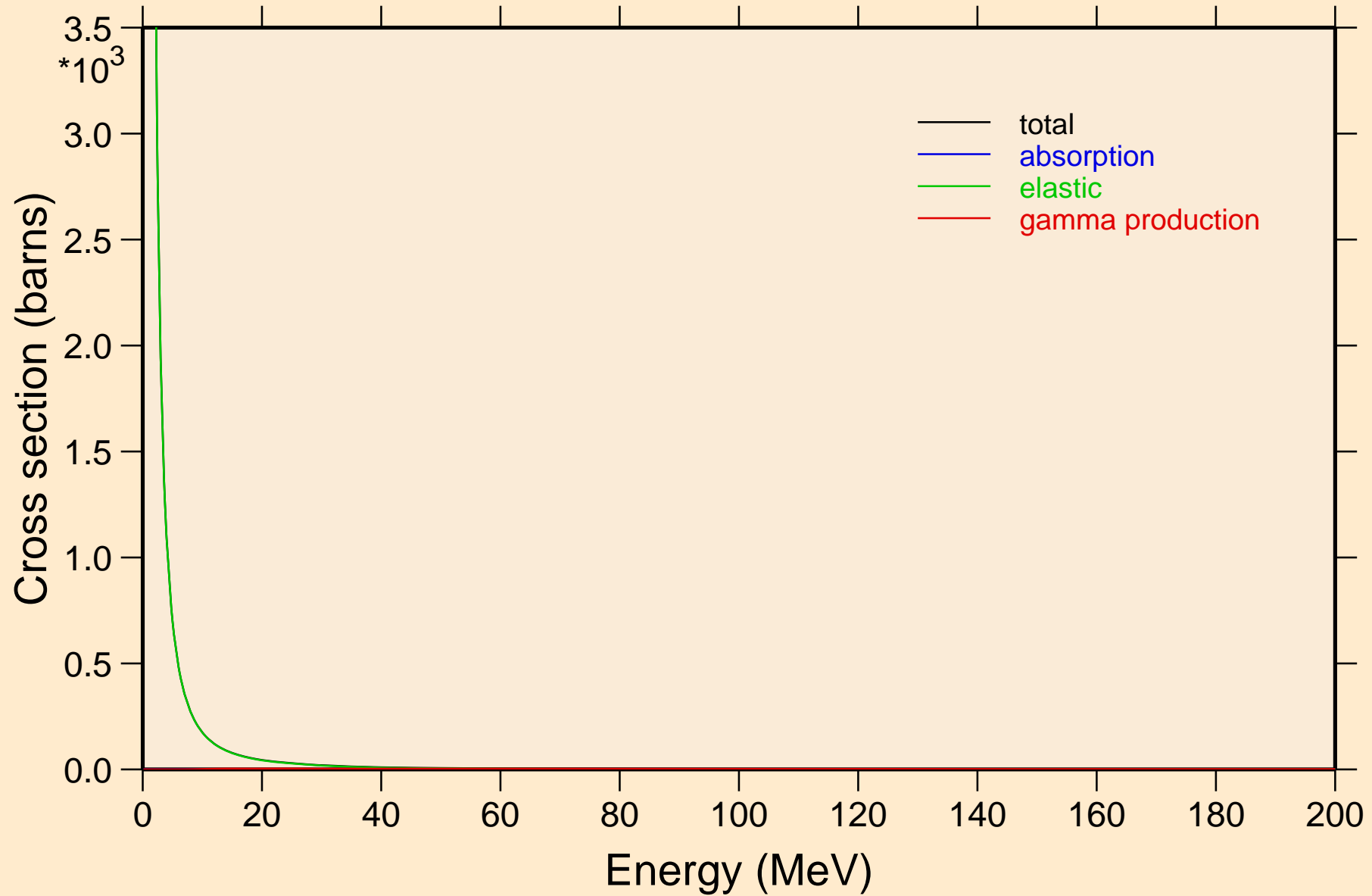


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Heating



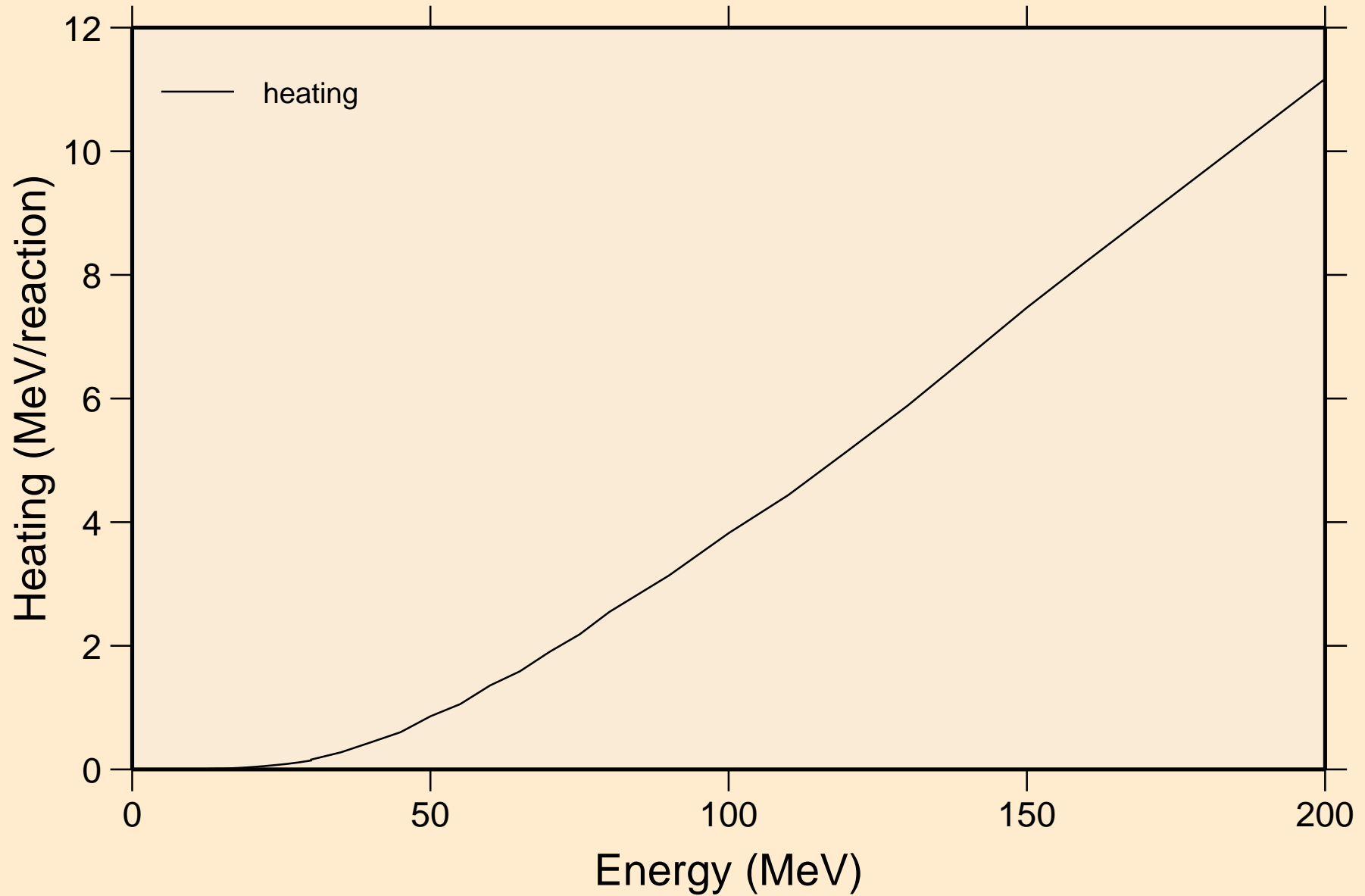
# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



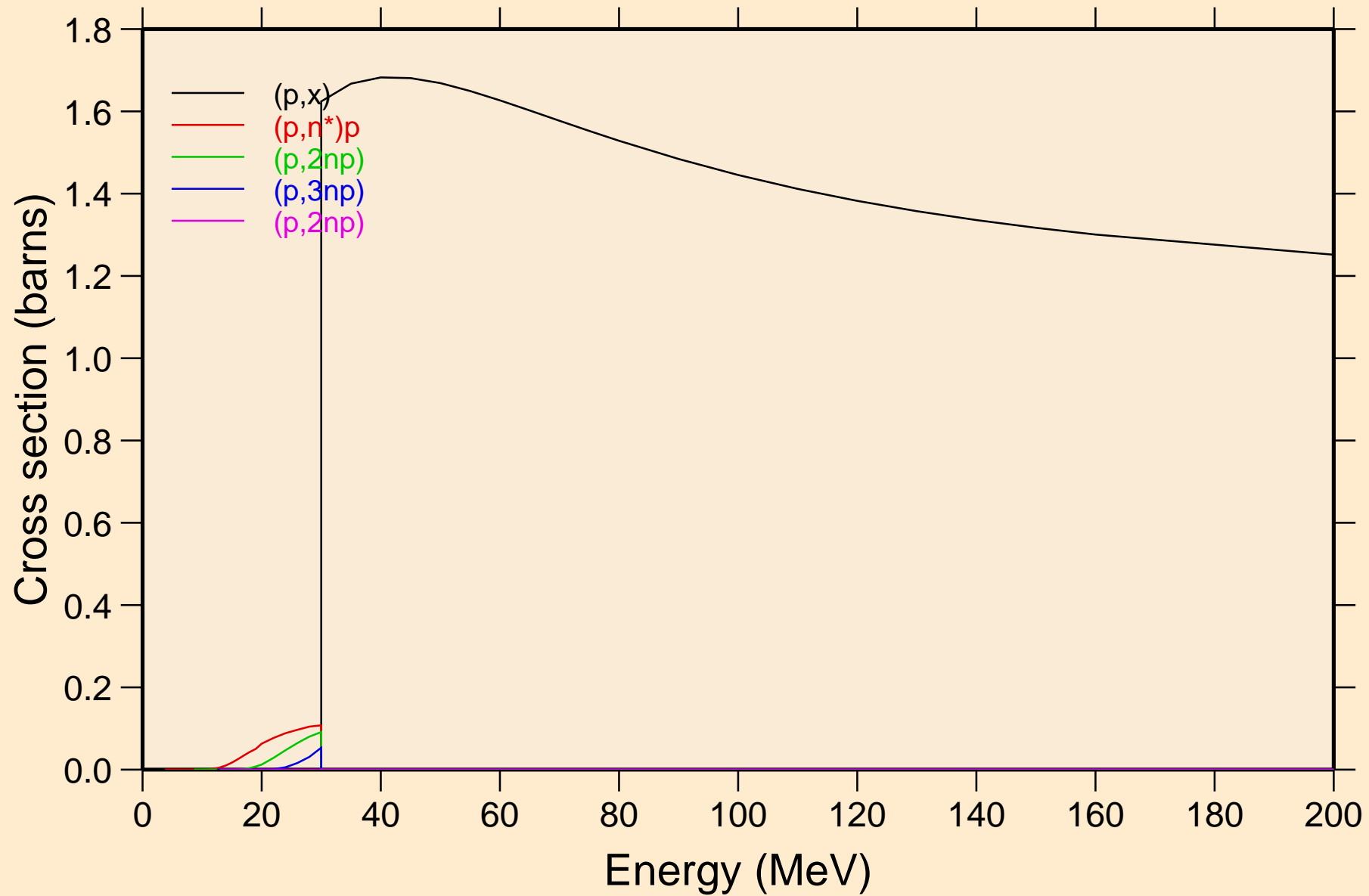
# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Heating



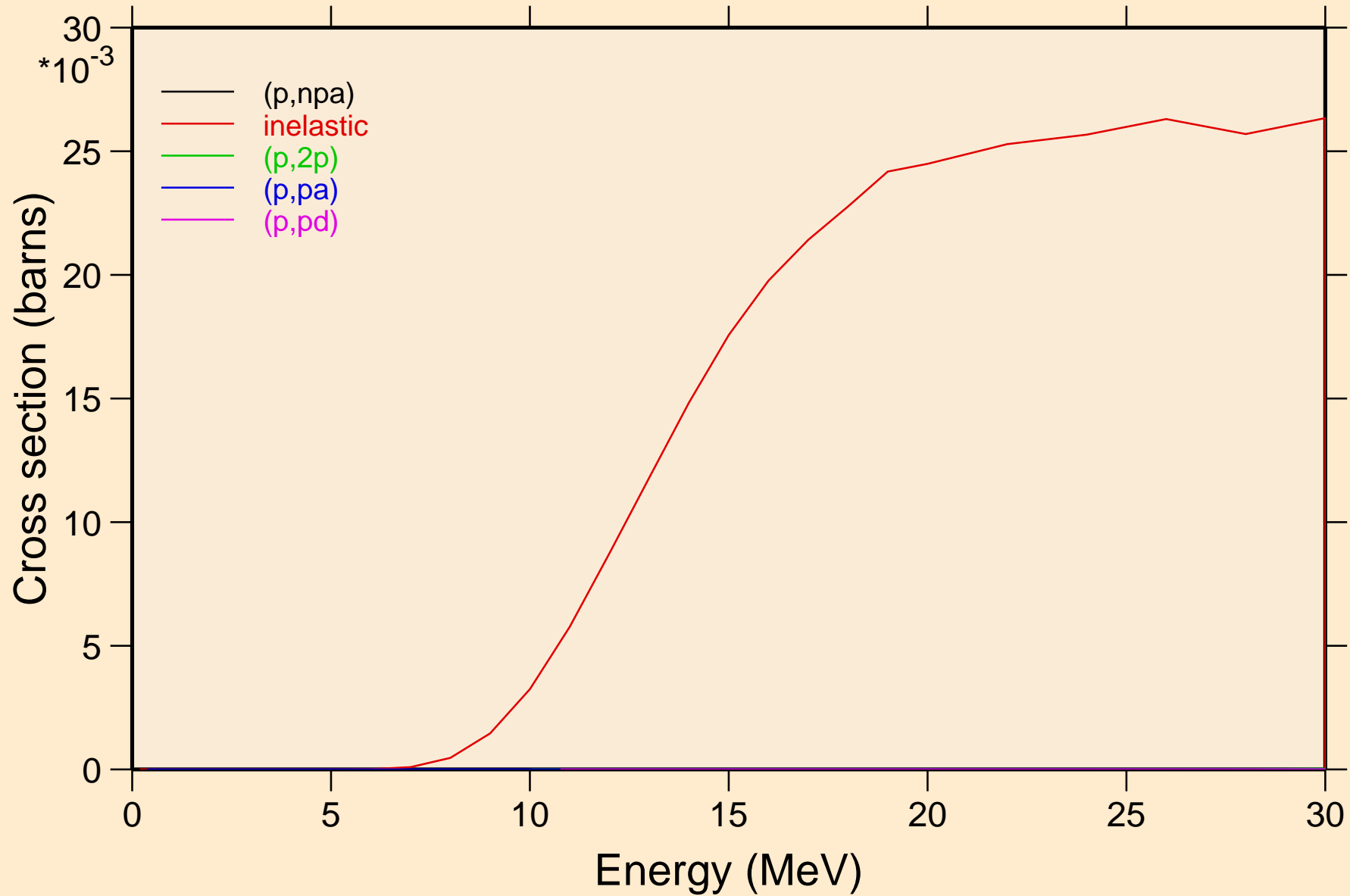
# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Threshold reactions

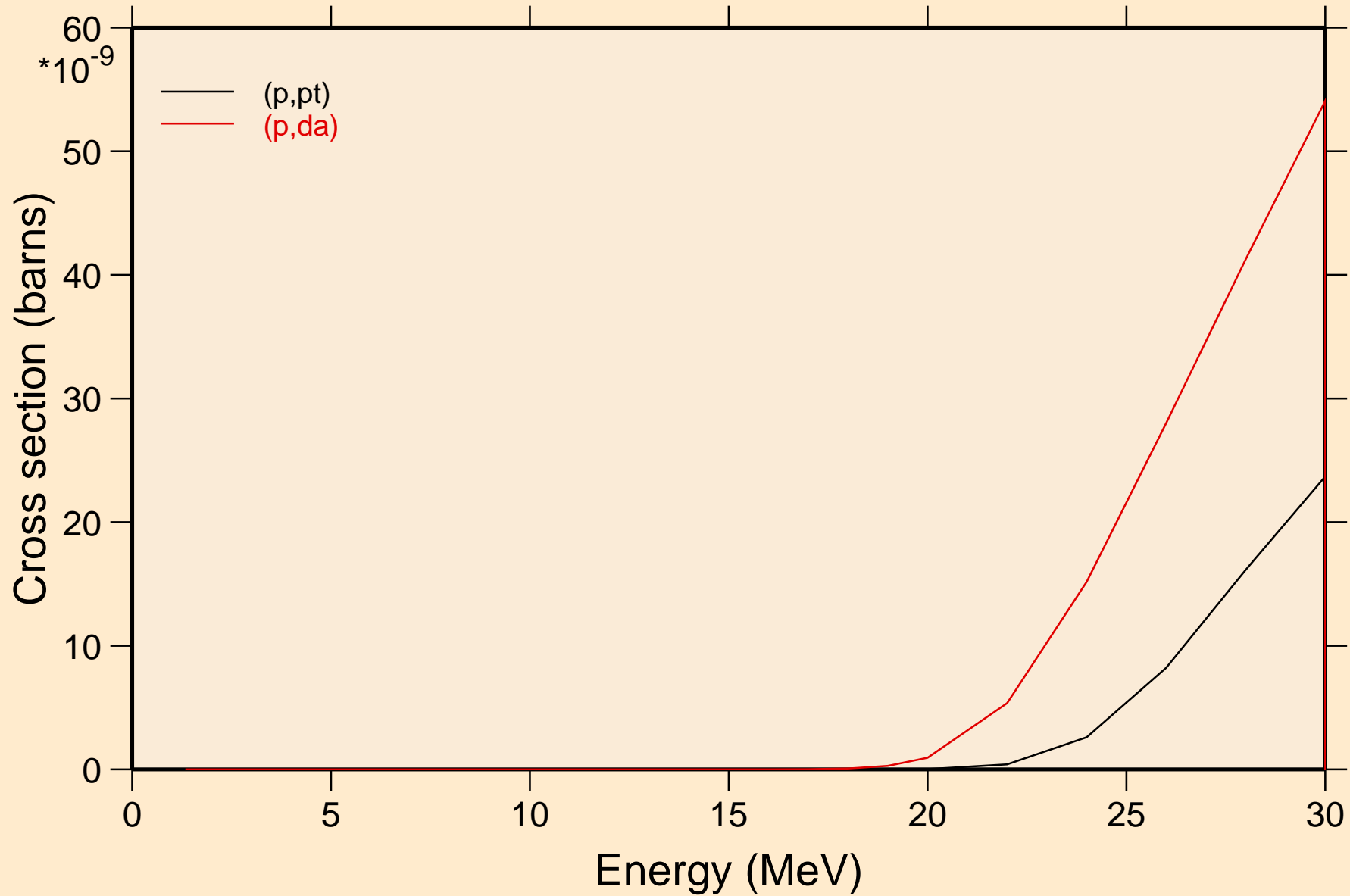


# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

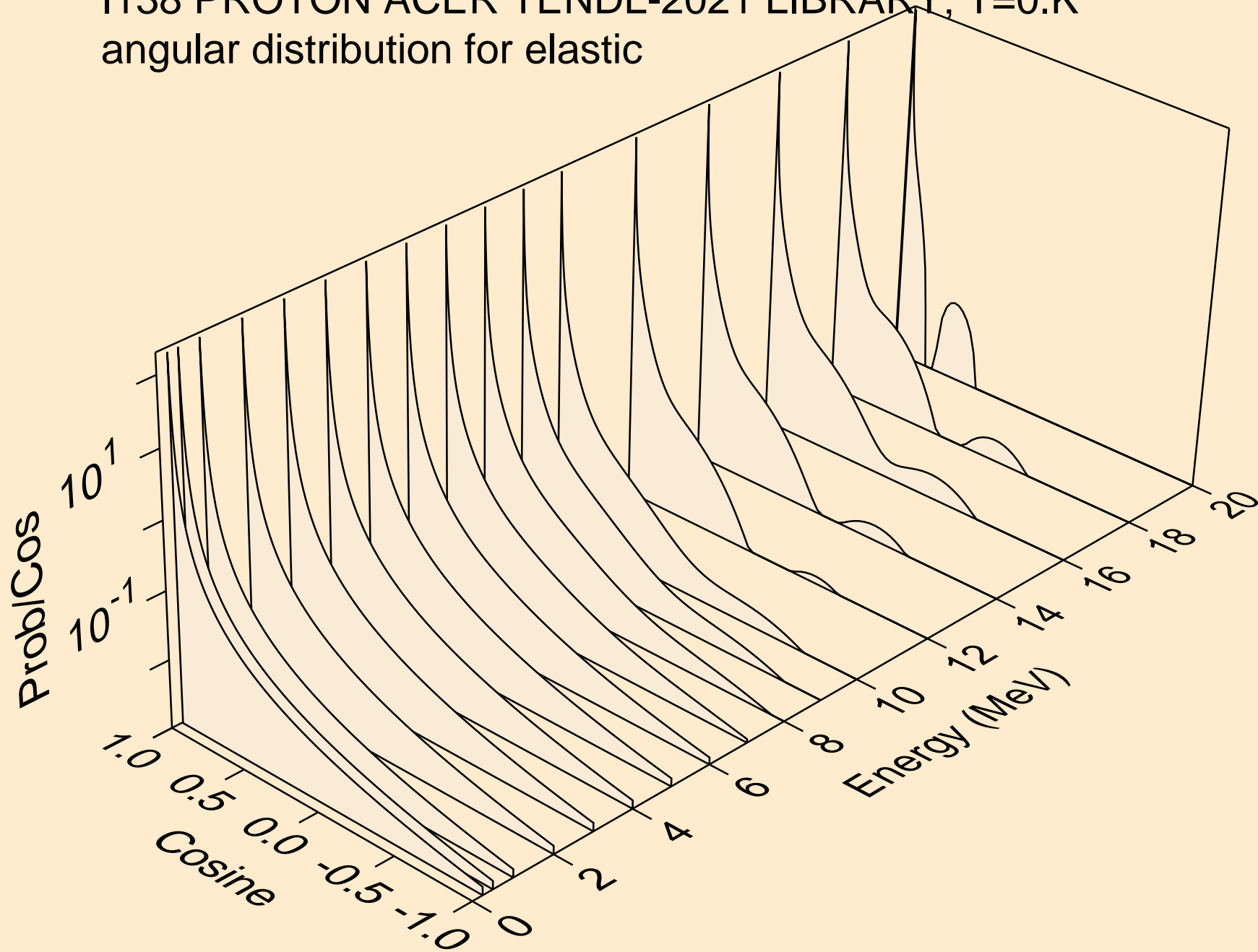
## Threshold reactions



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

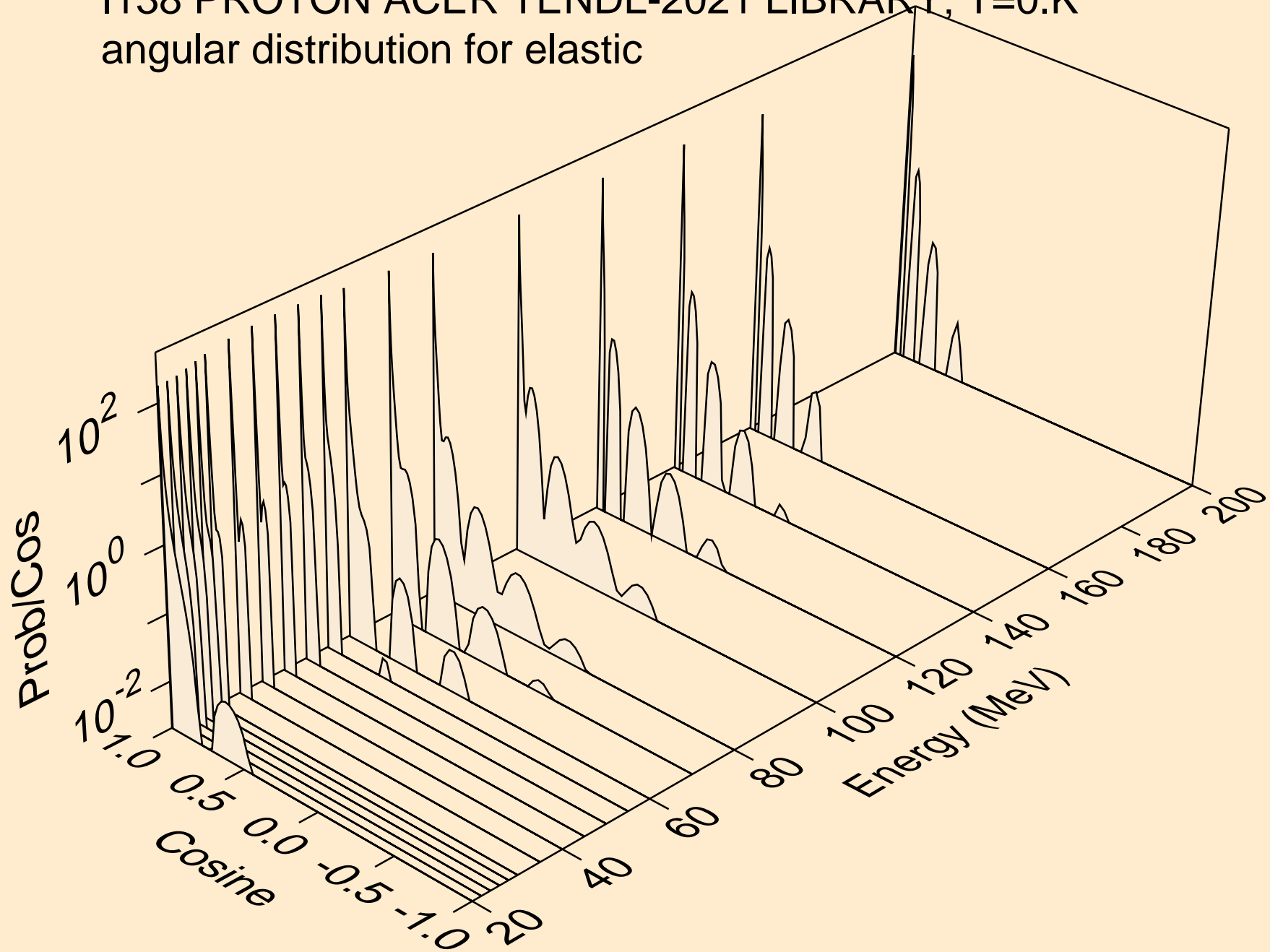


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic

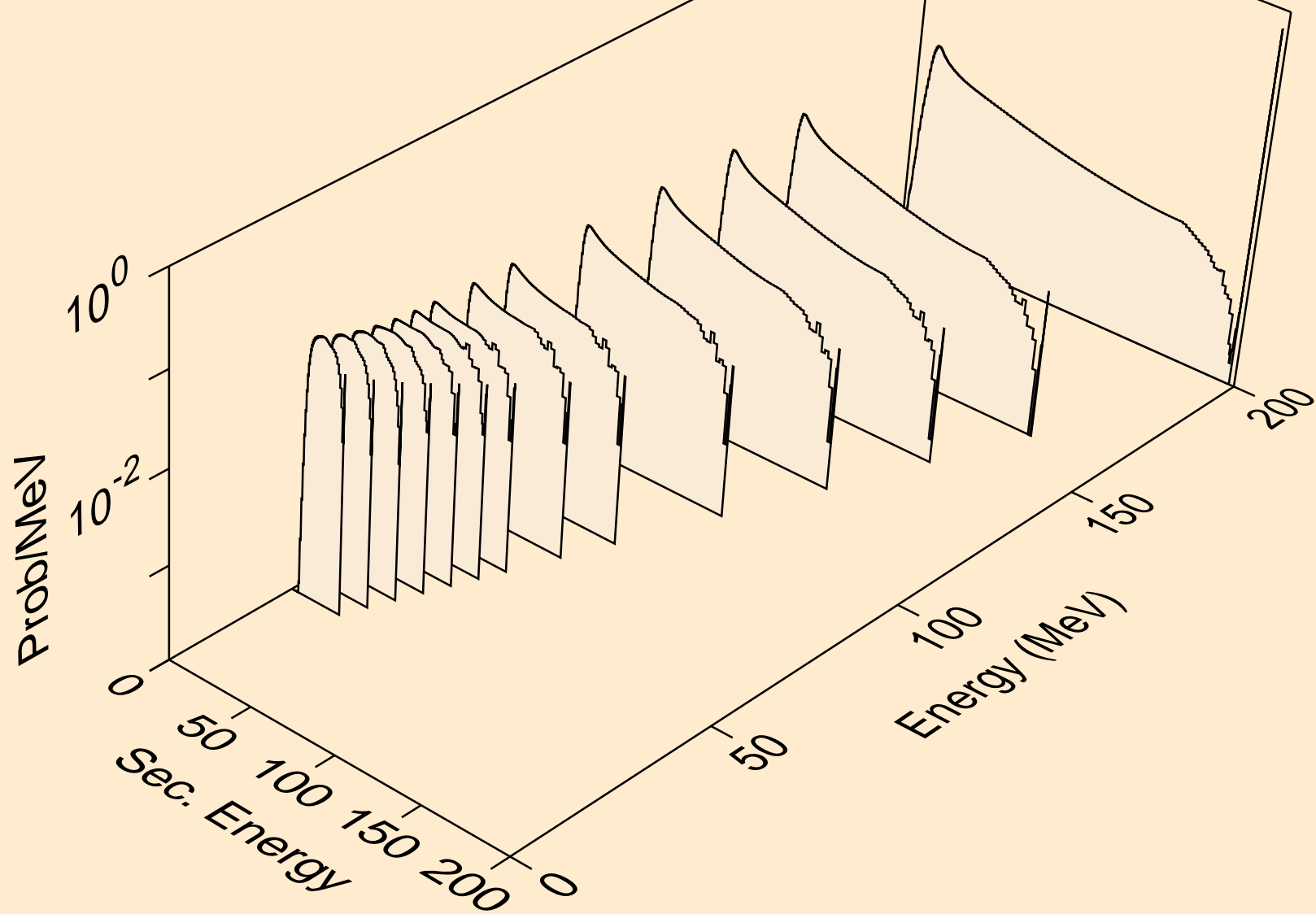




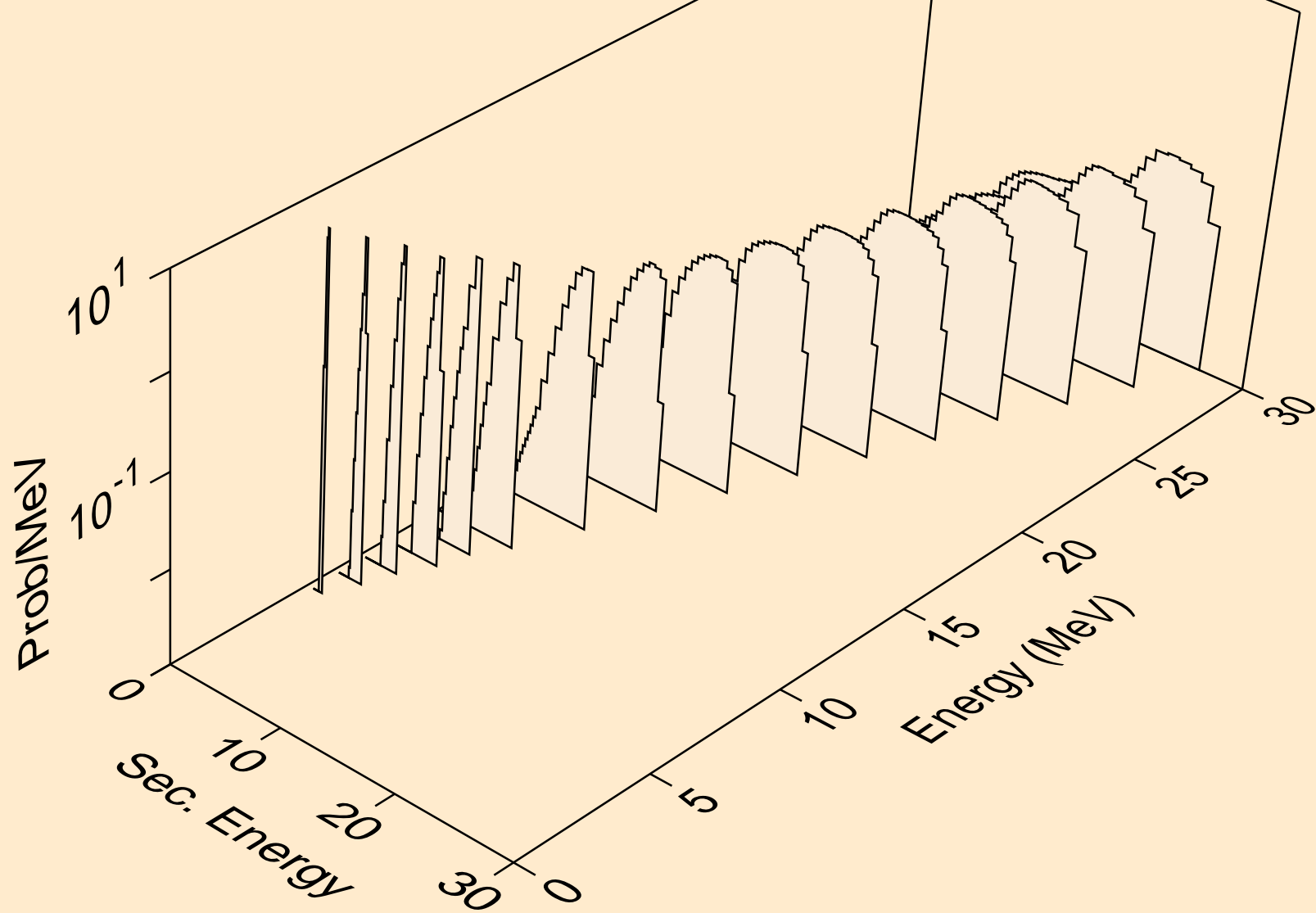
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



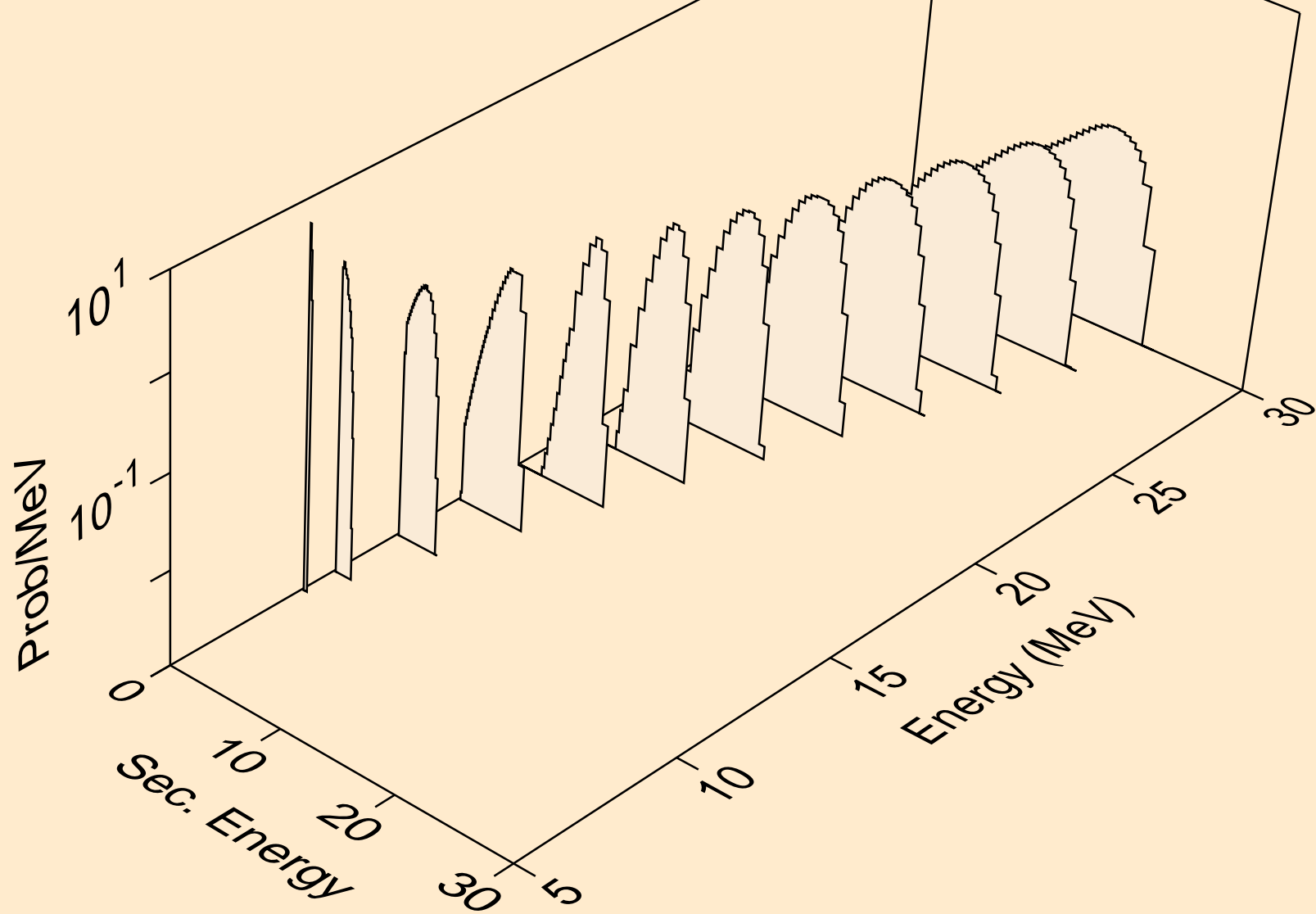
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,x)



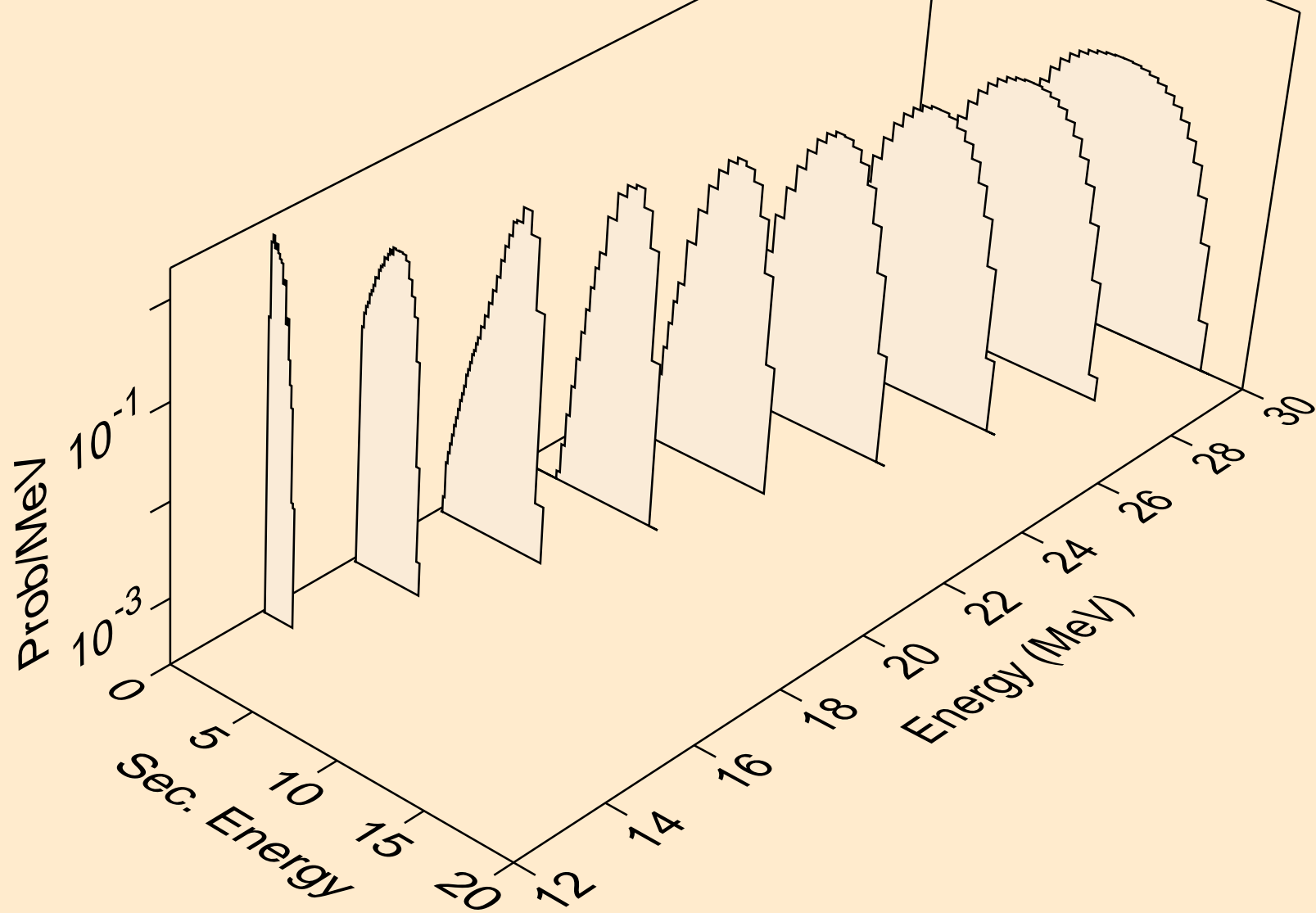
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



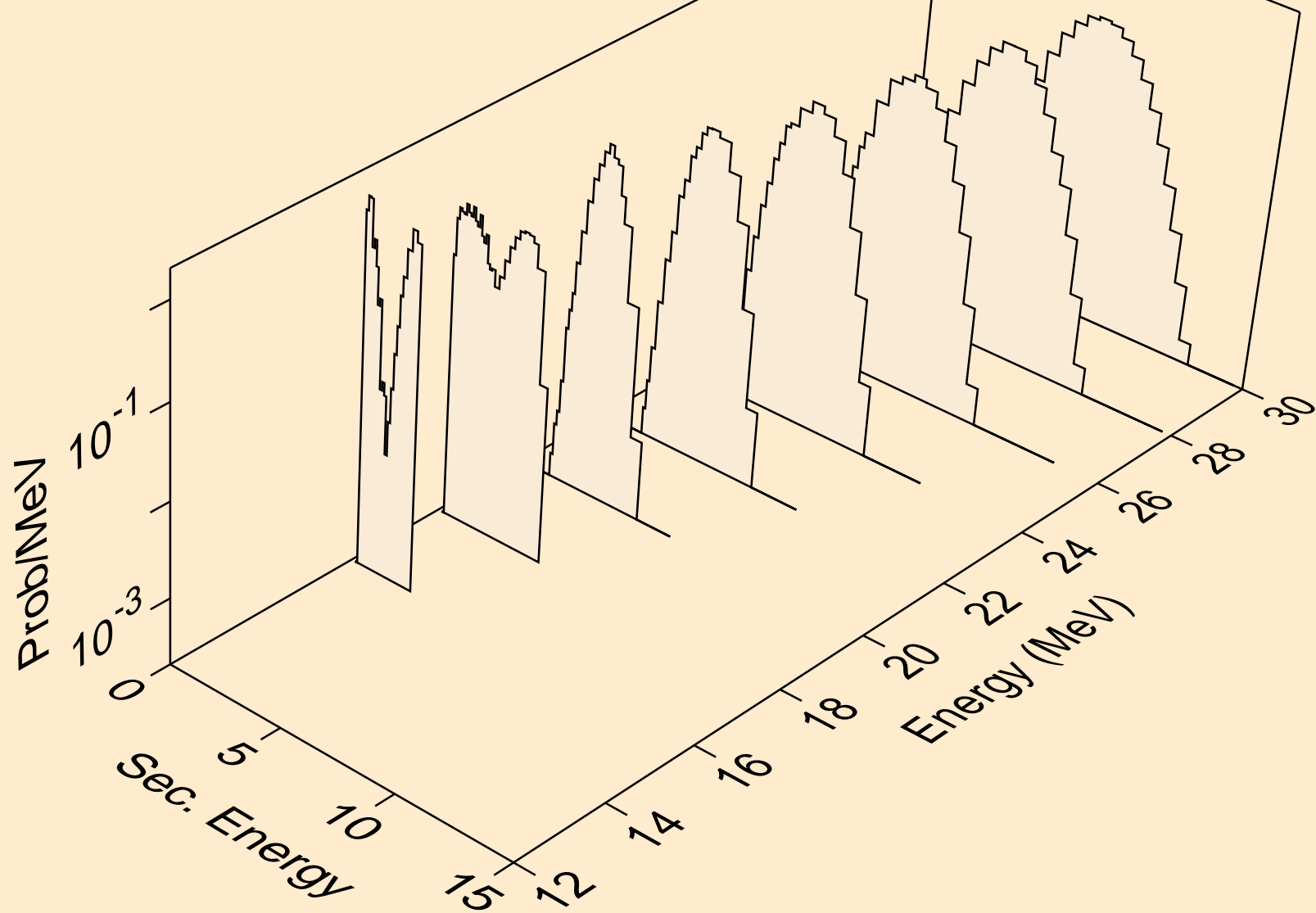
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



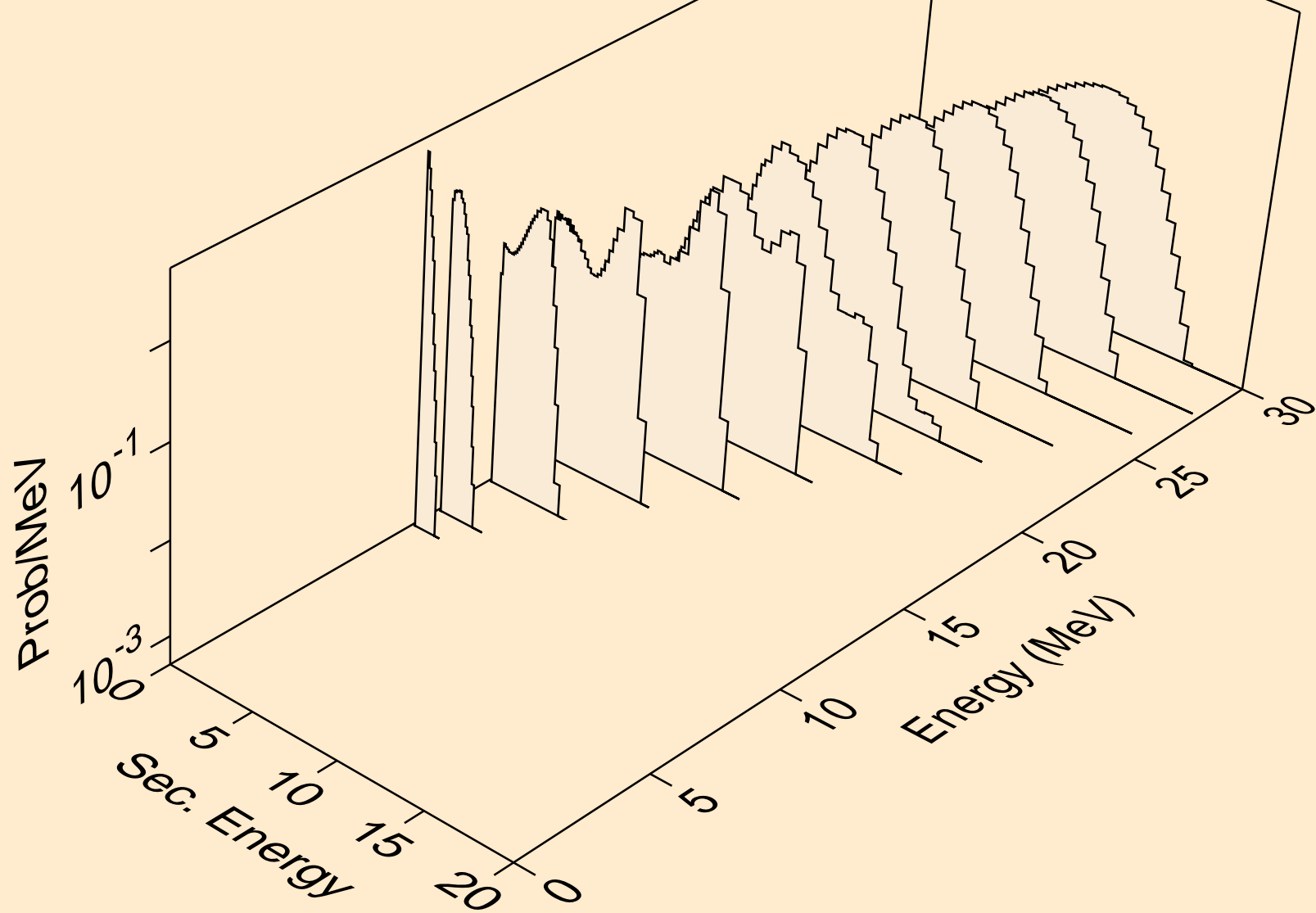
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,3np)



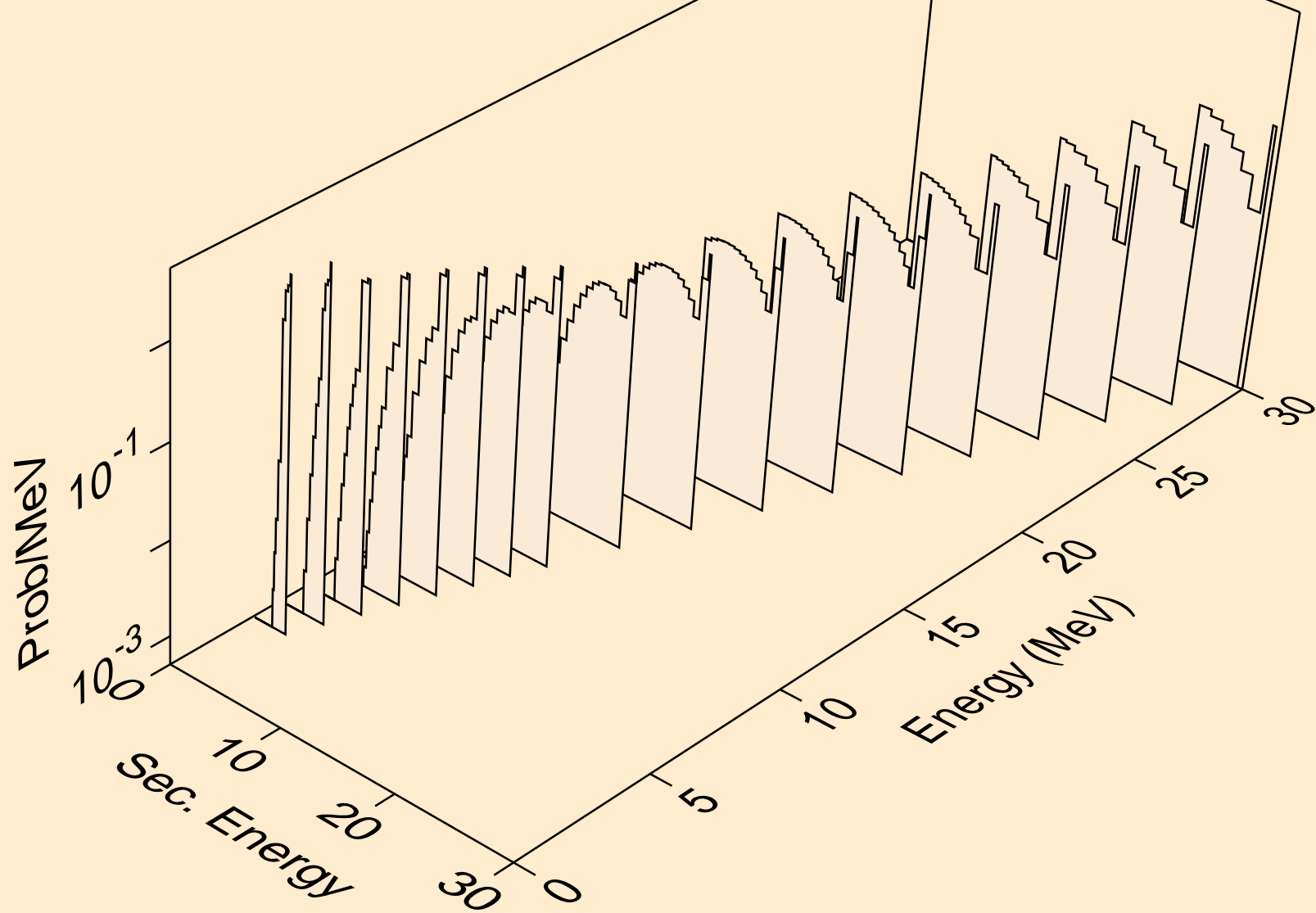
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,npa)

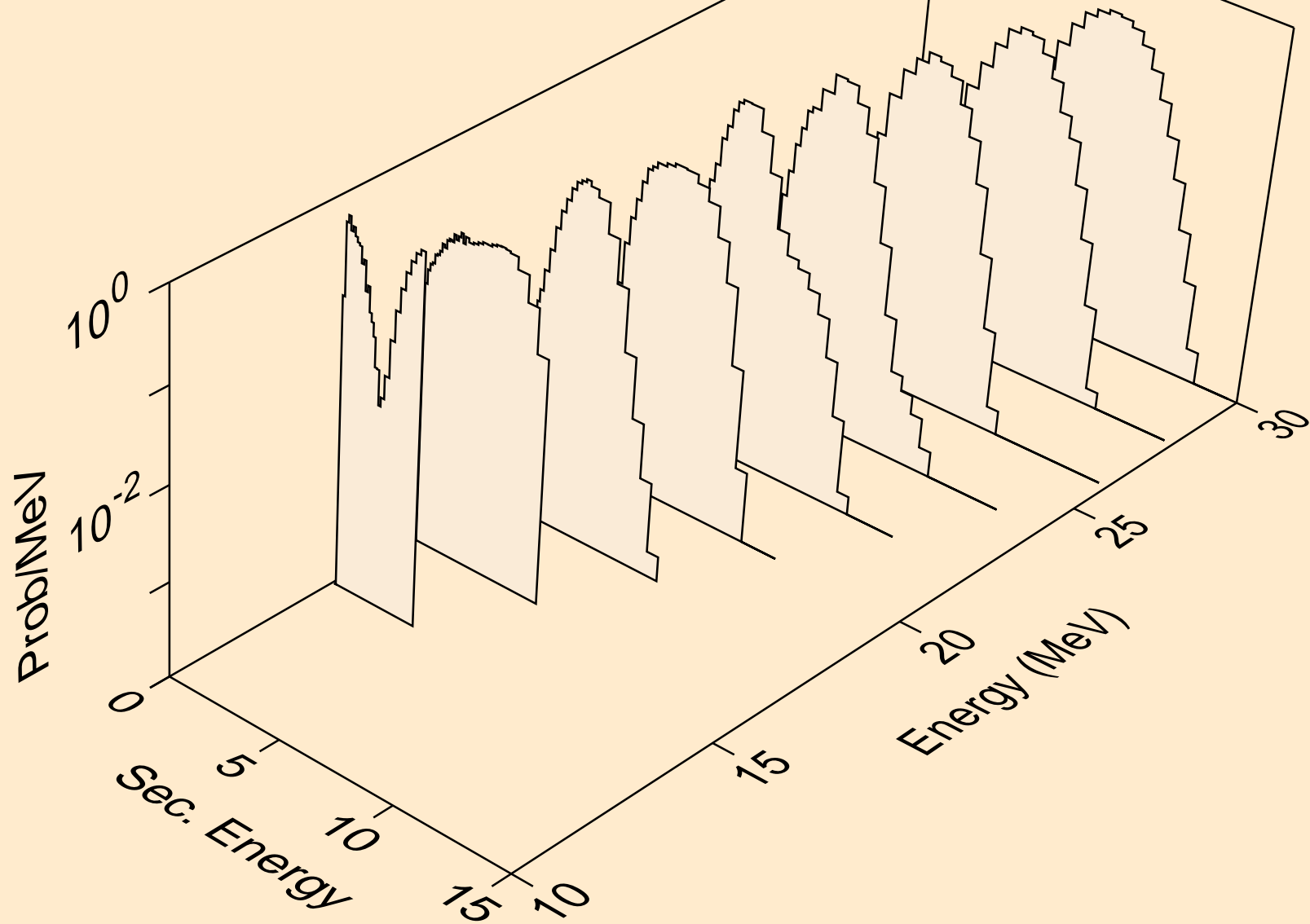


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for inelastic

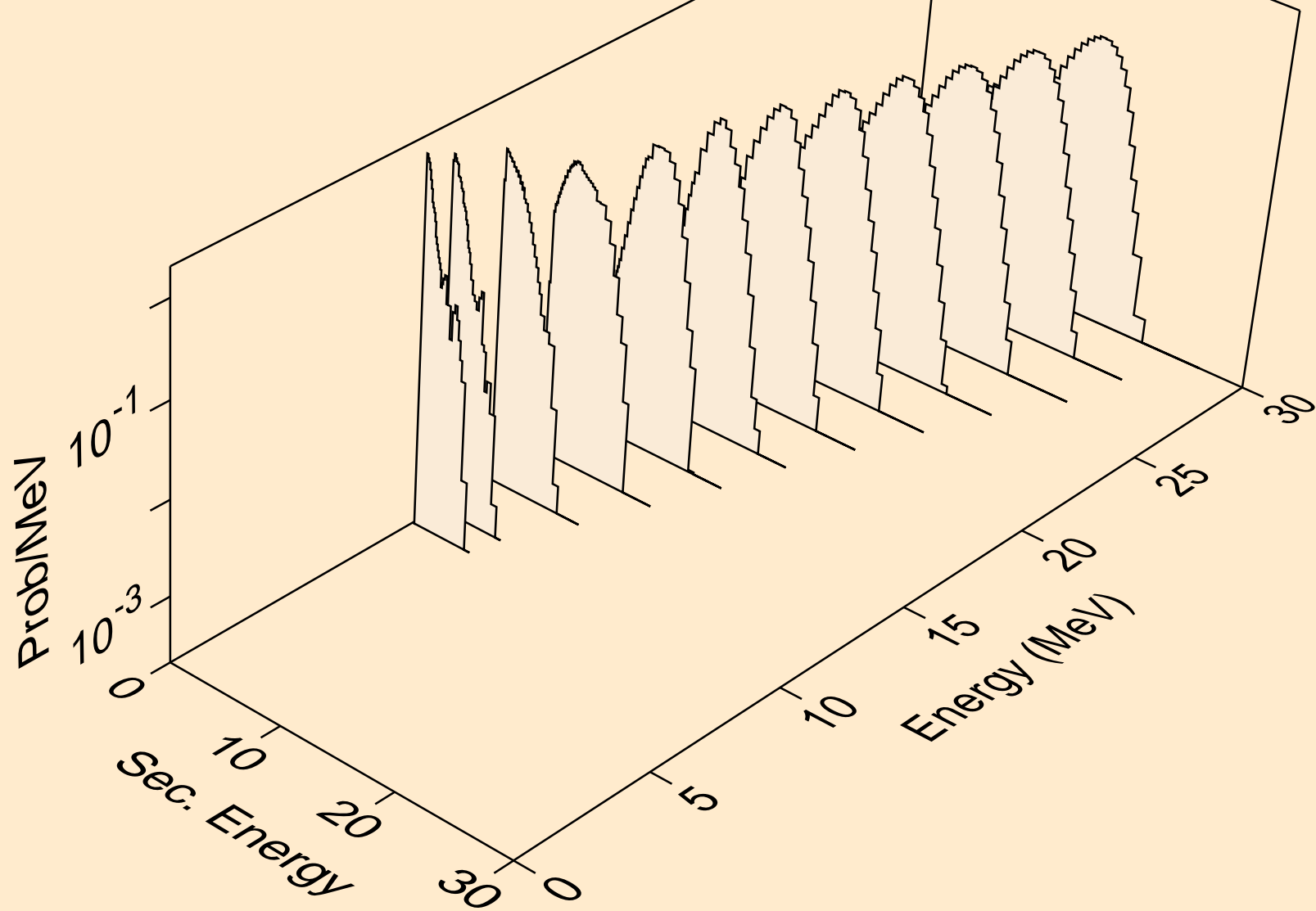




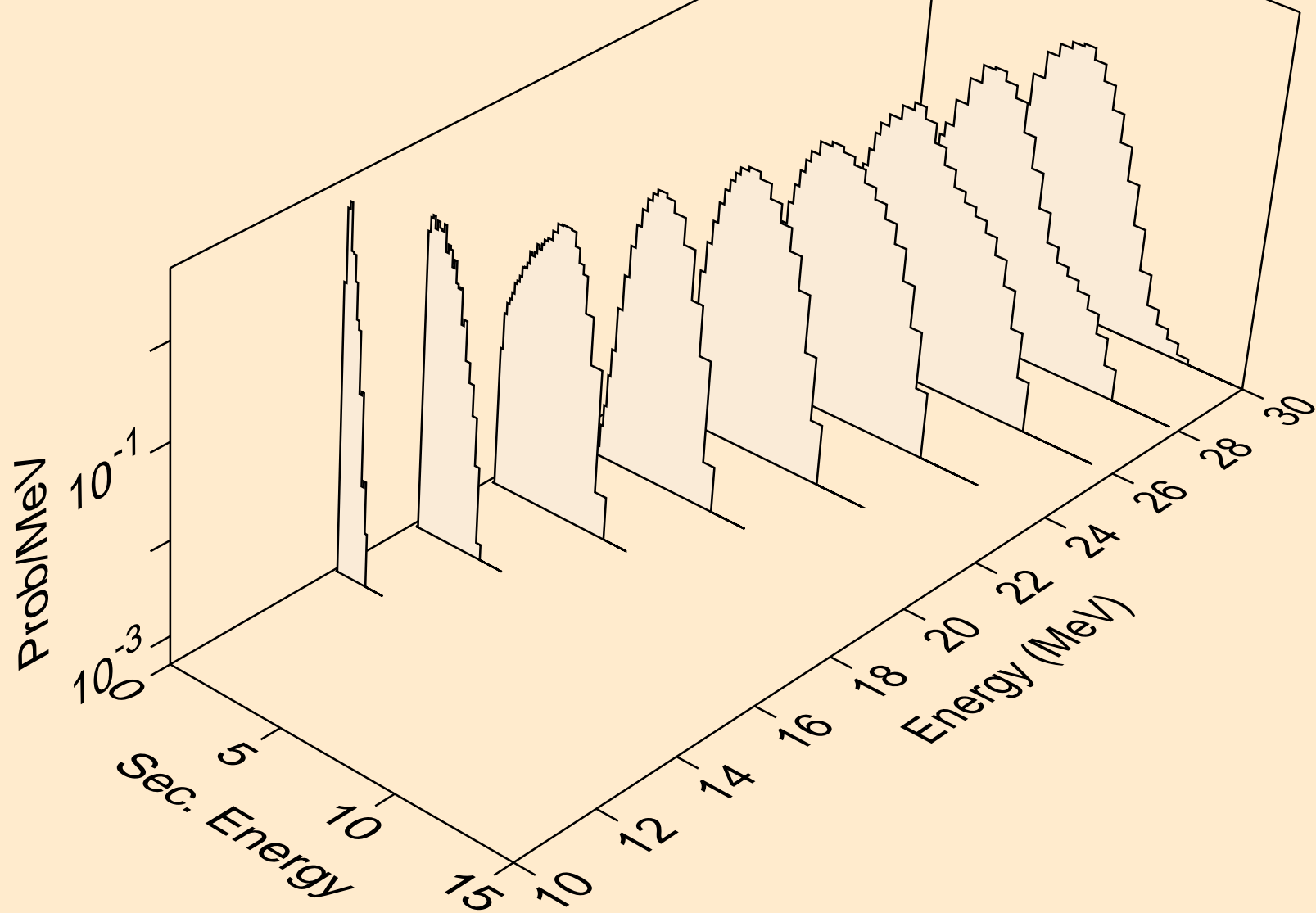
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2p)



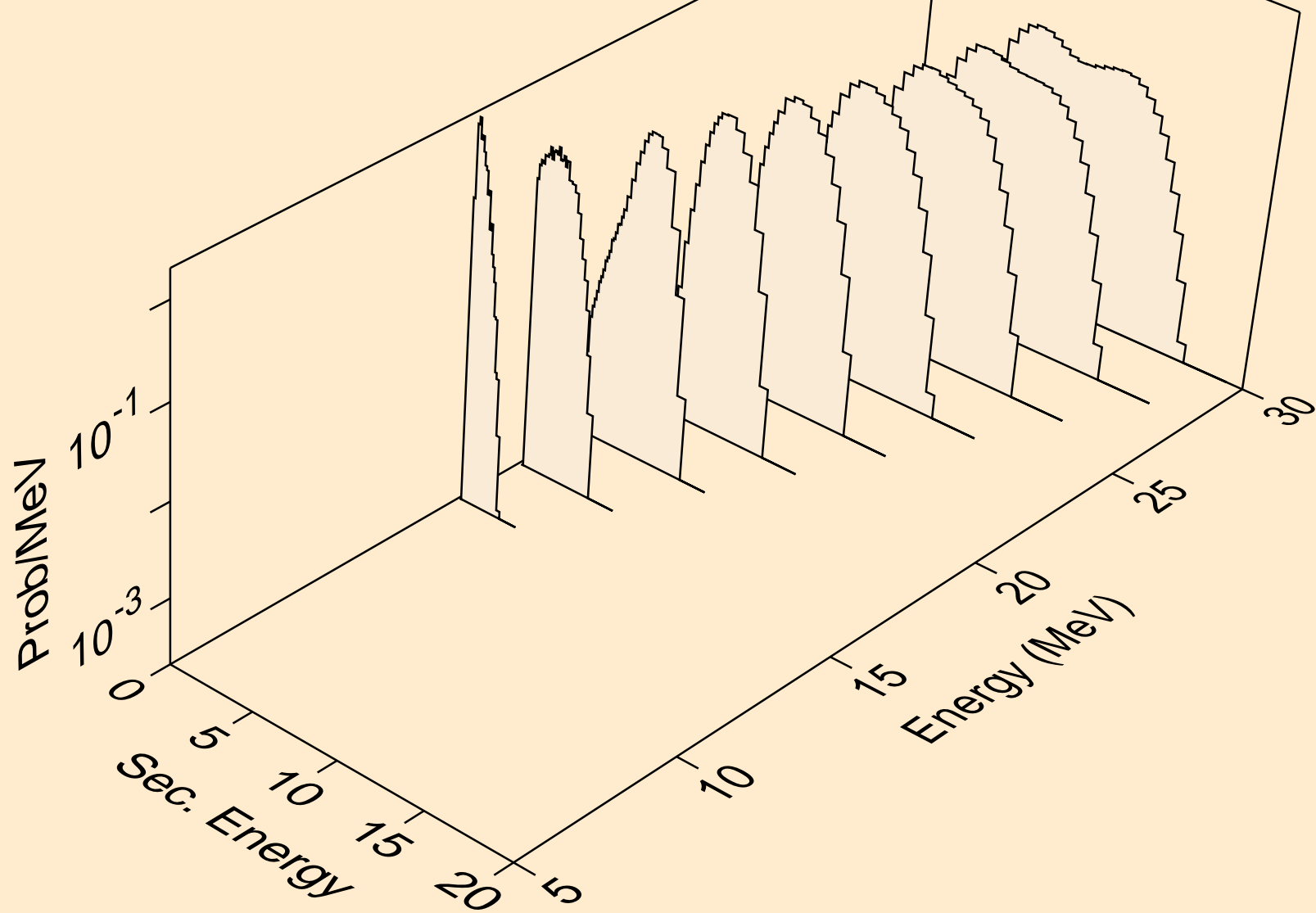
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pa)



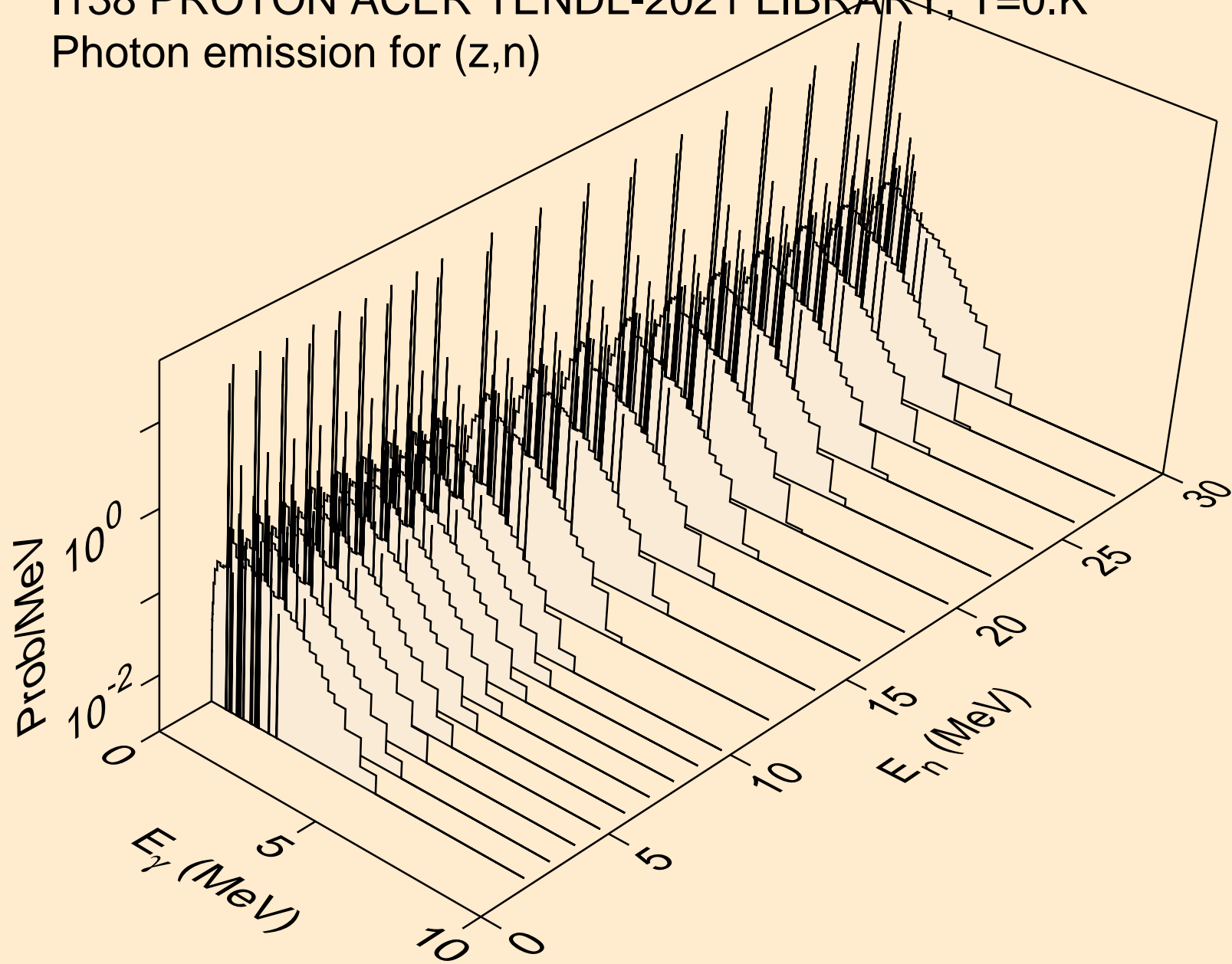
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pd)



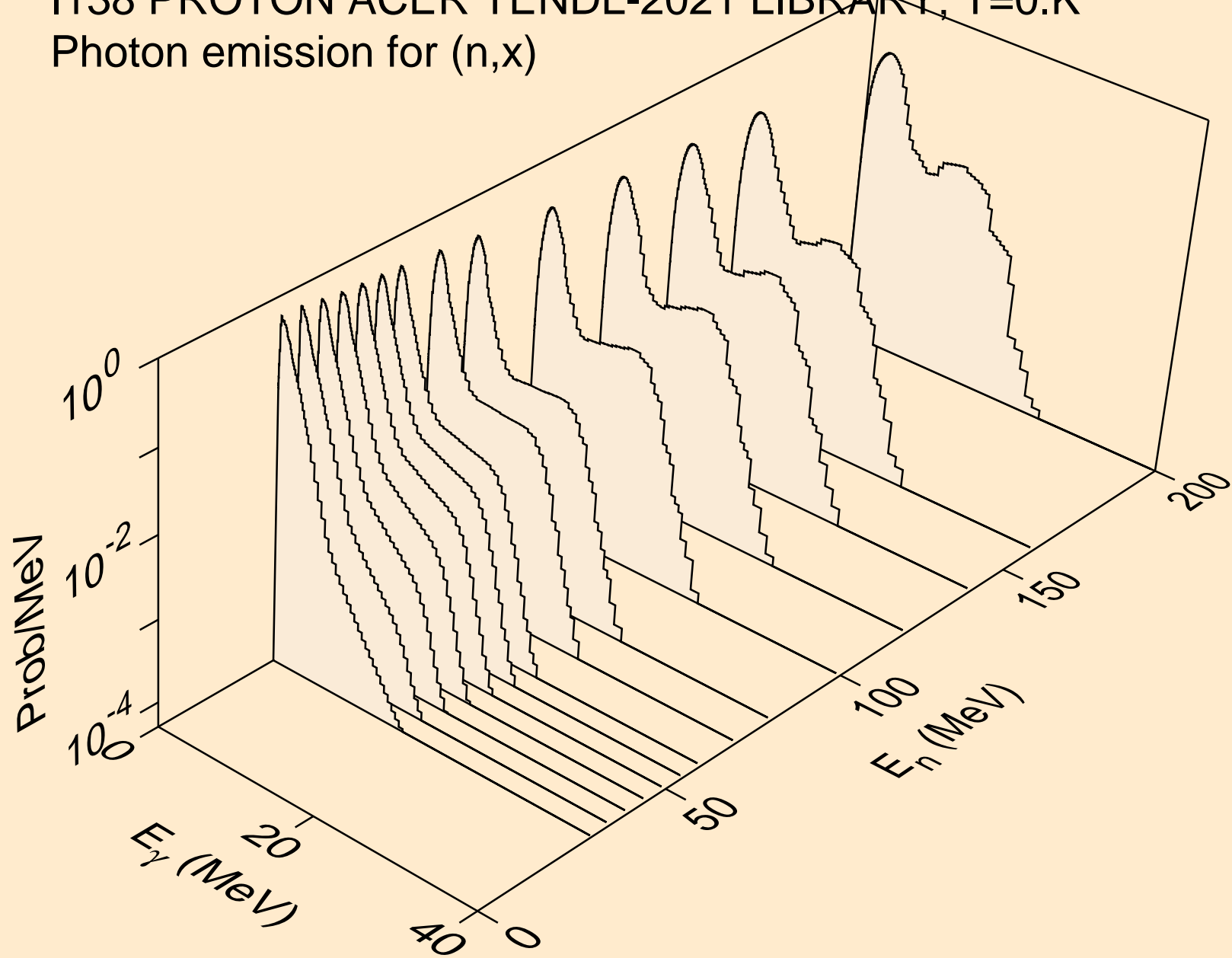
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,pt)



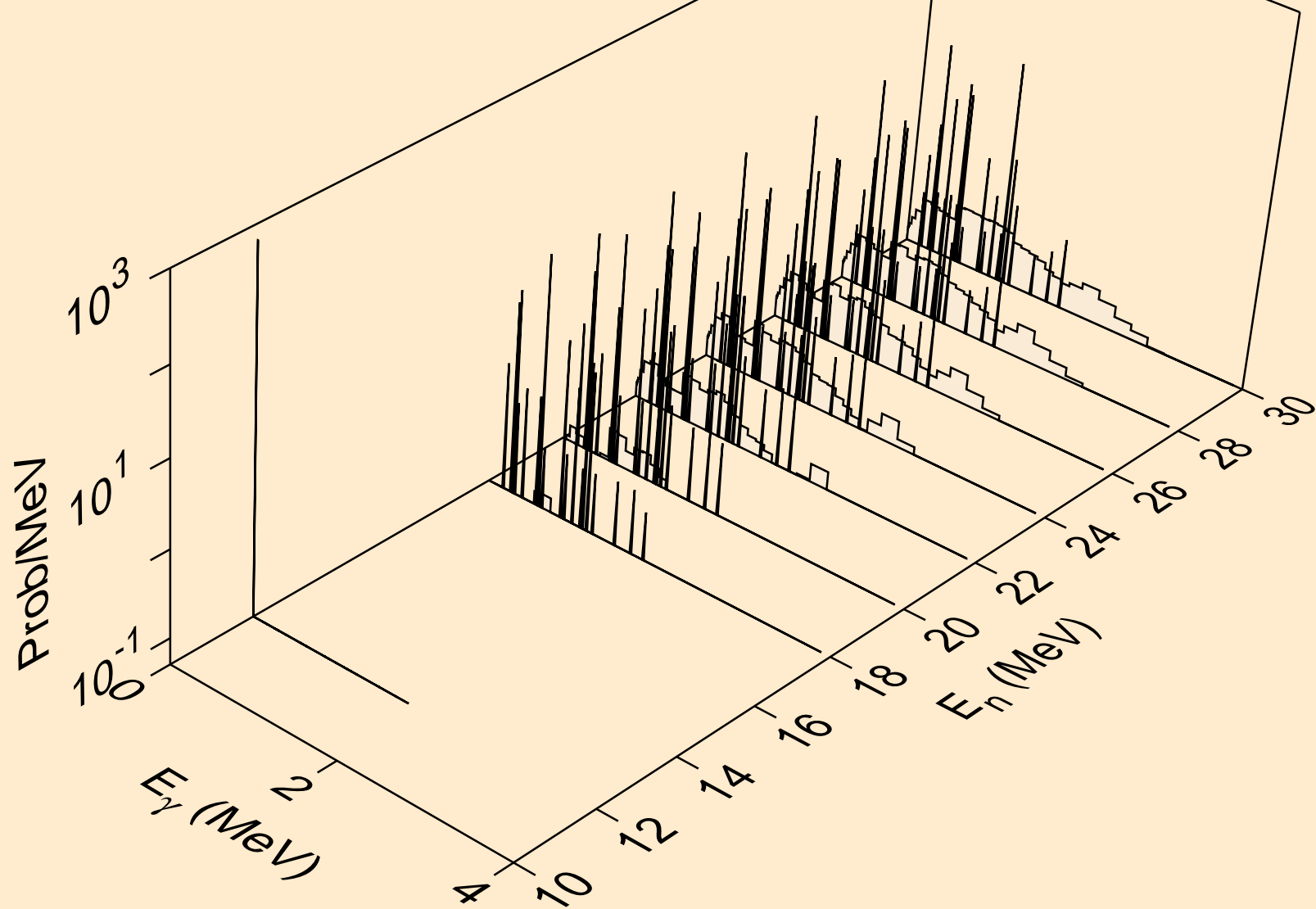
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



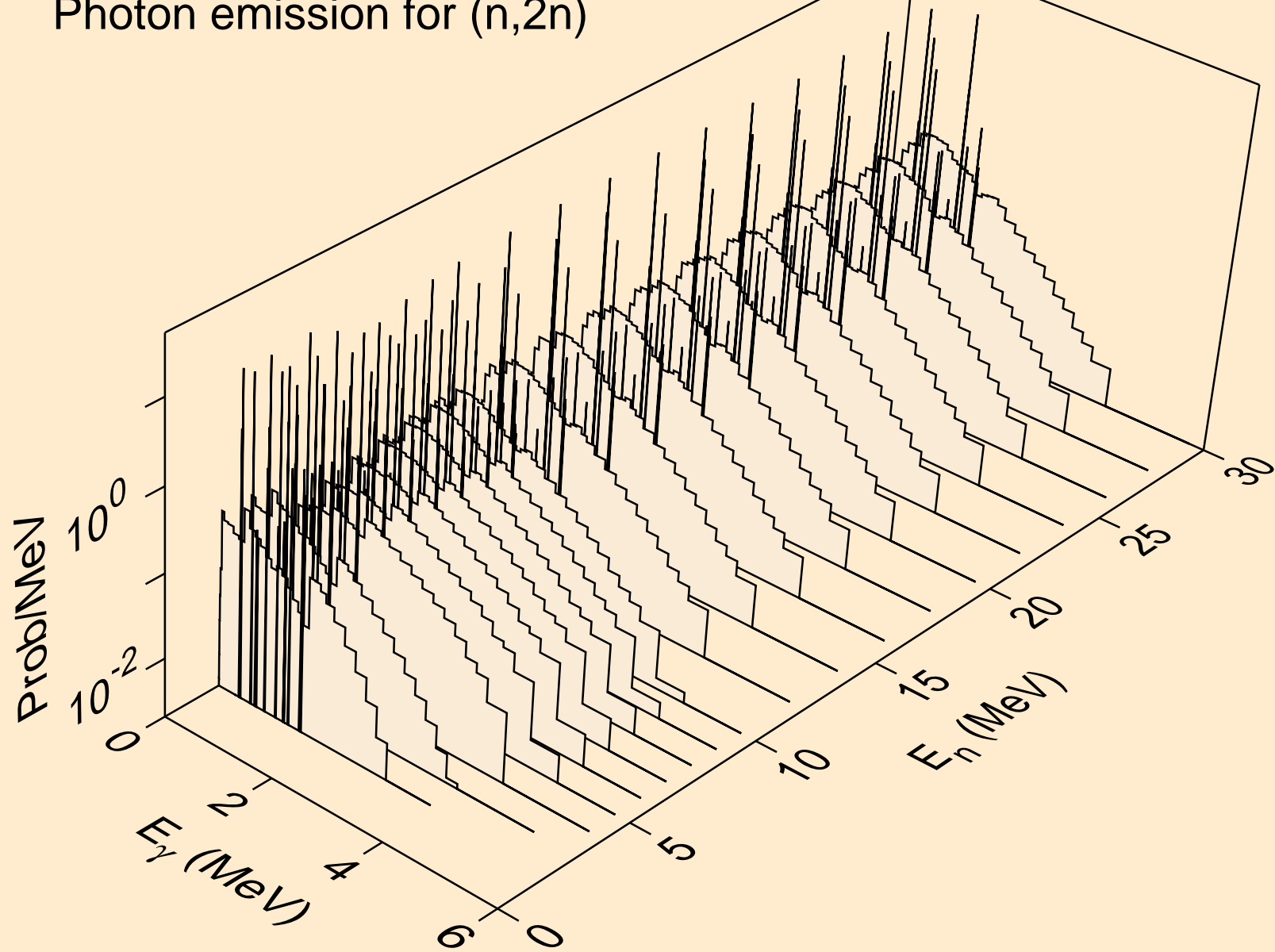
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2nd)

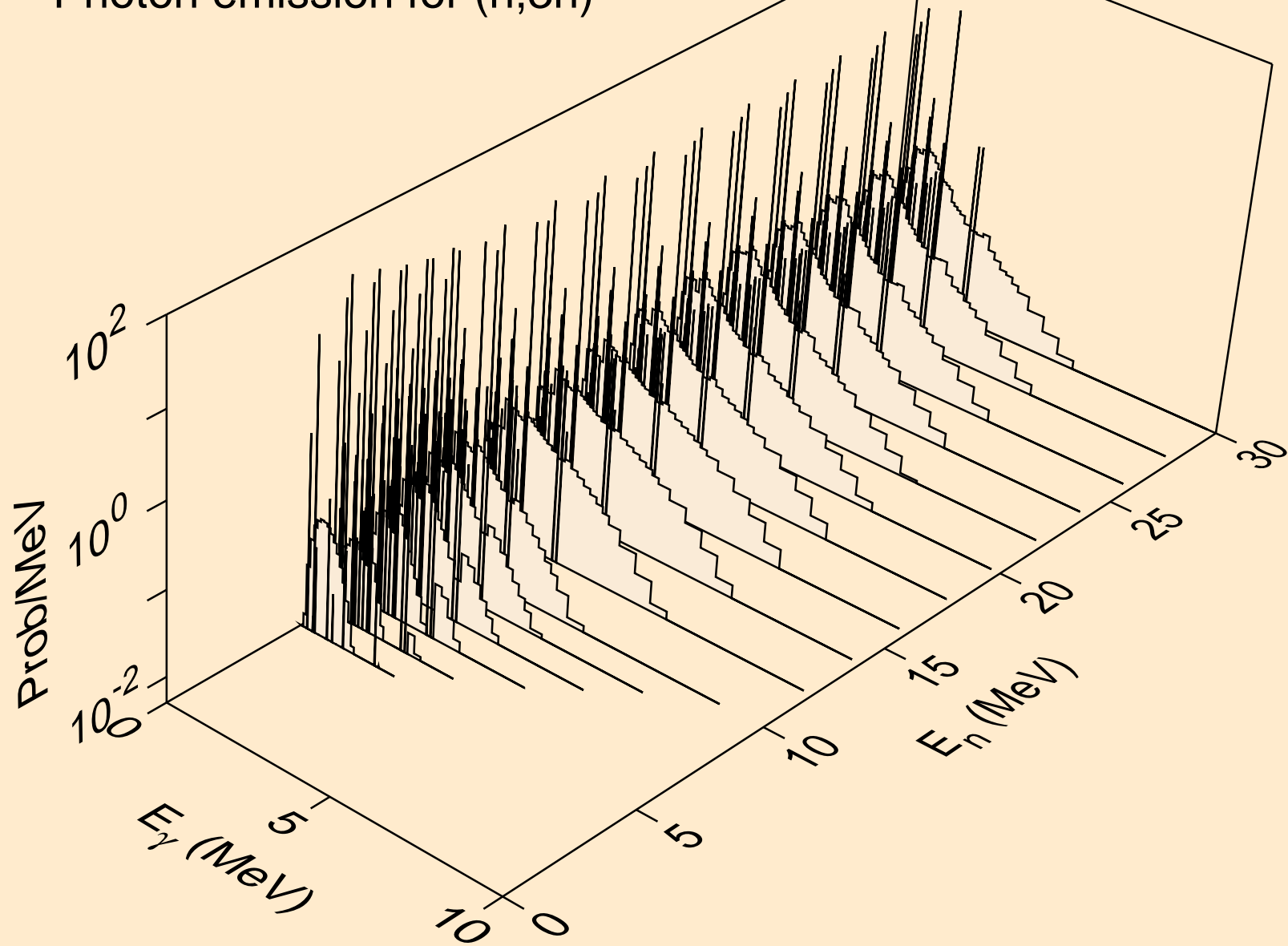


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)

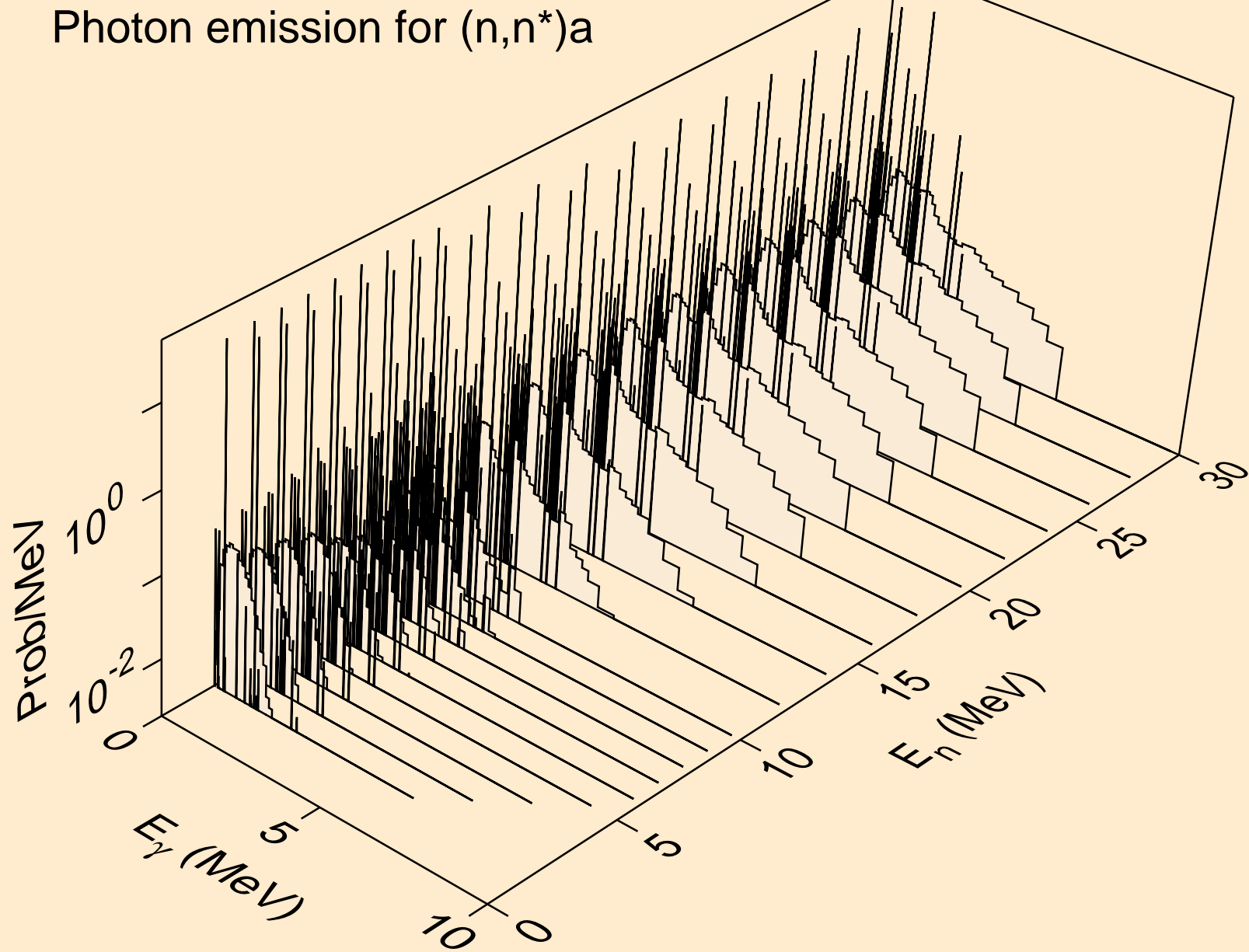




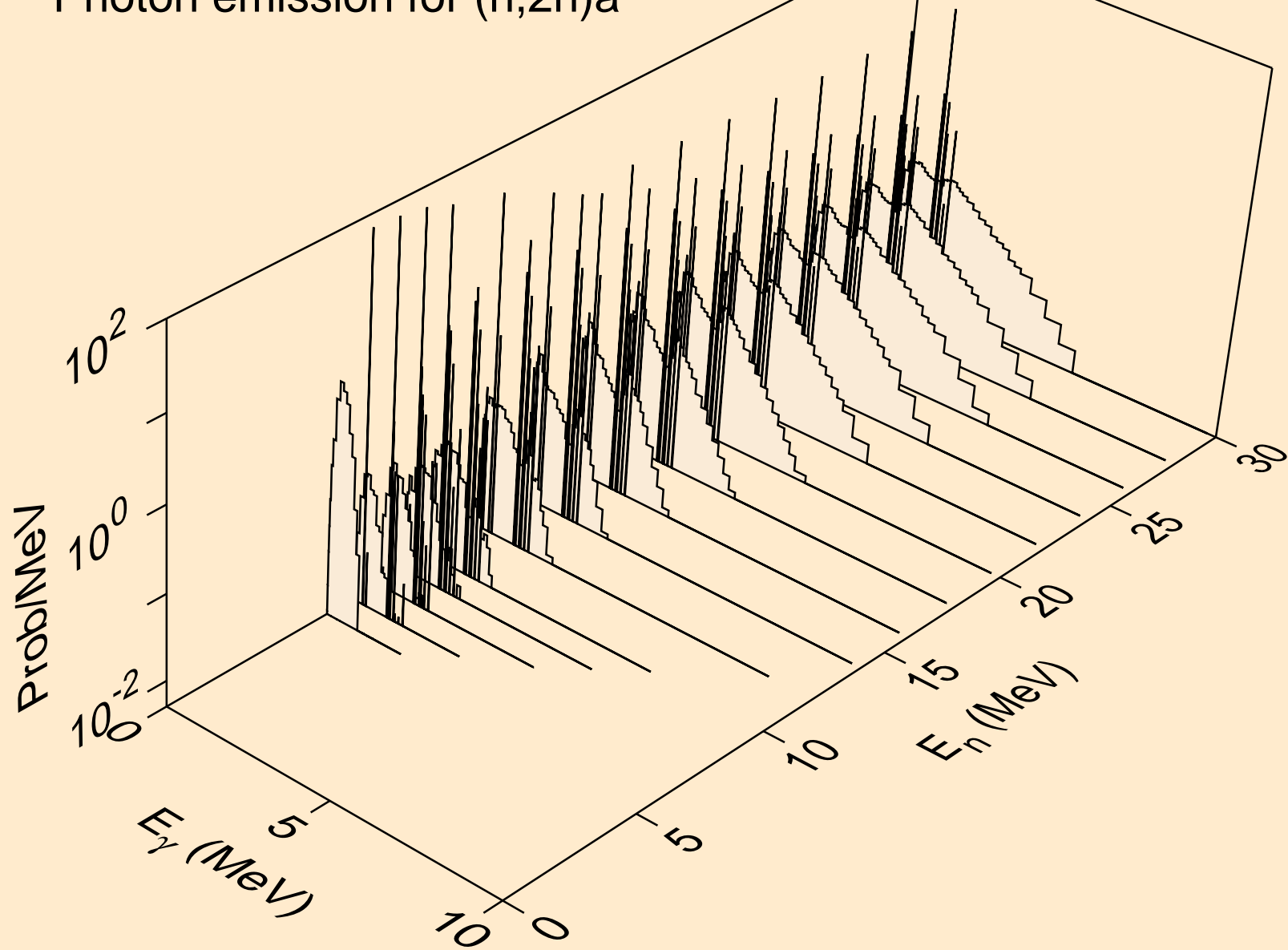
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



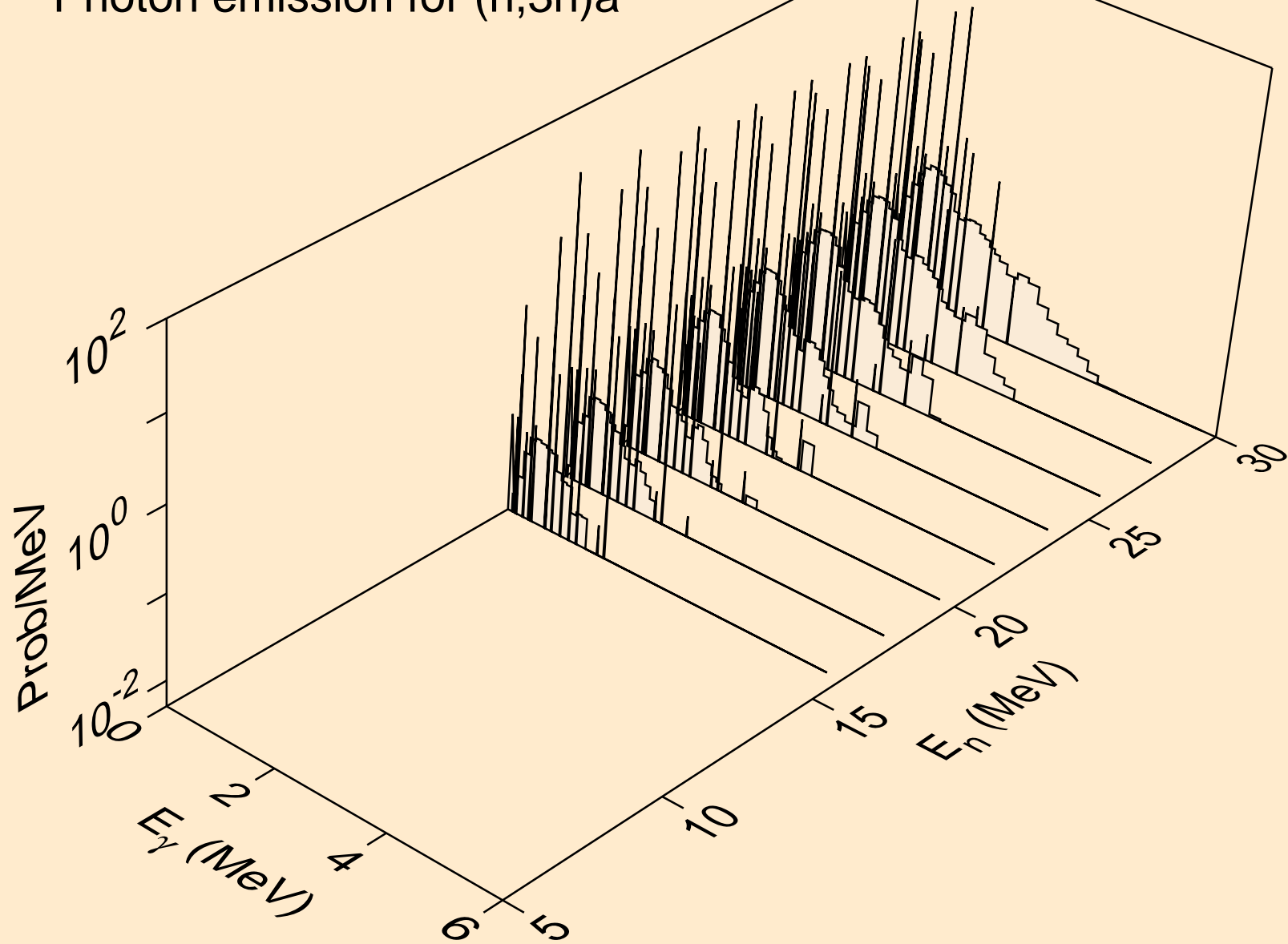
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



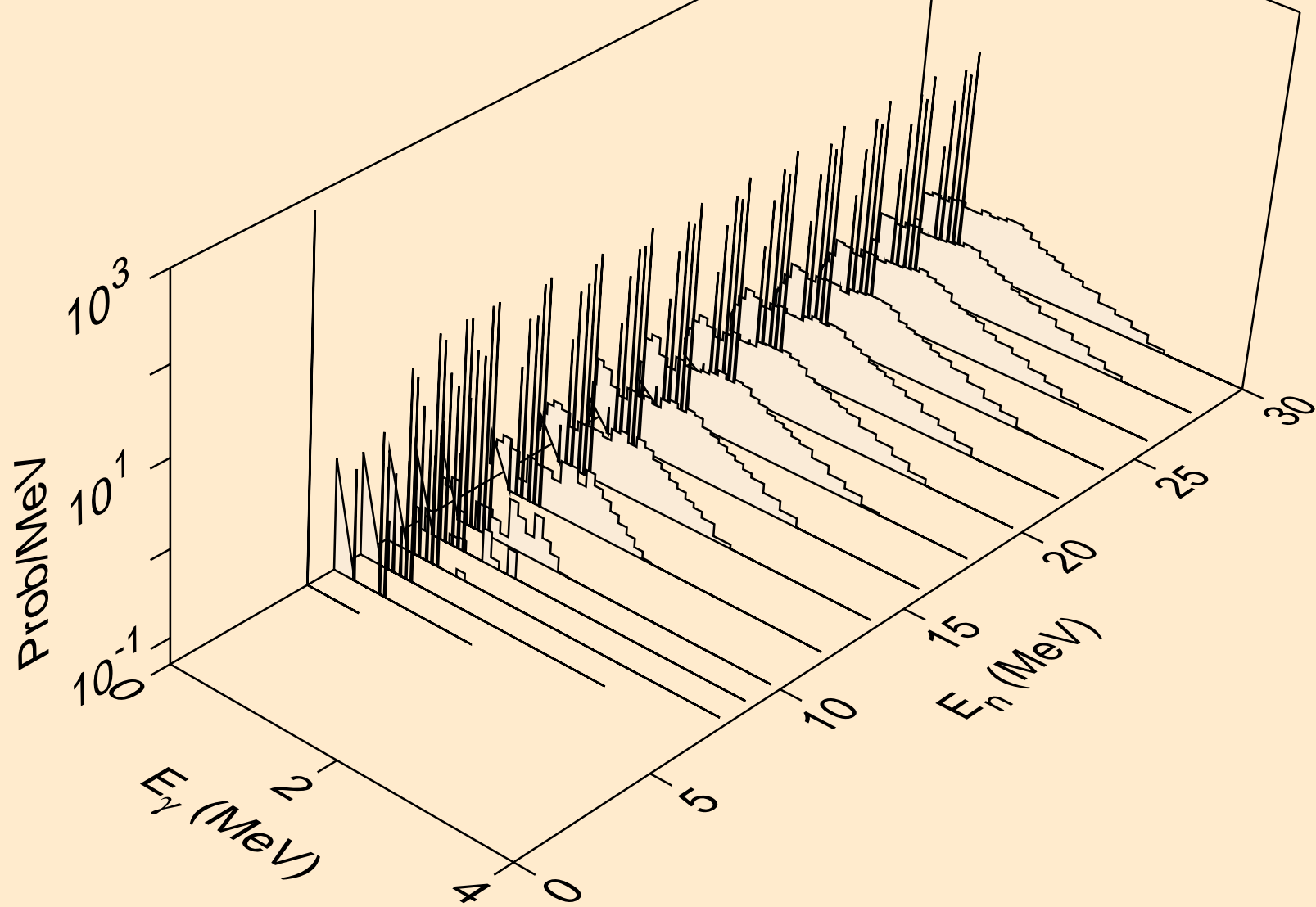
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Photon emission for (n,2n)a



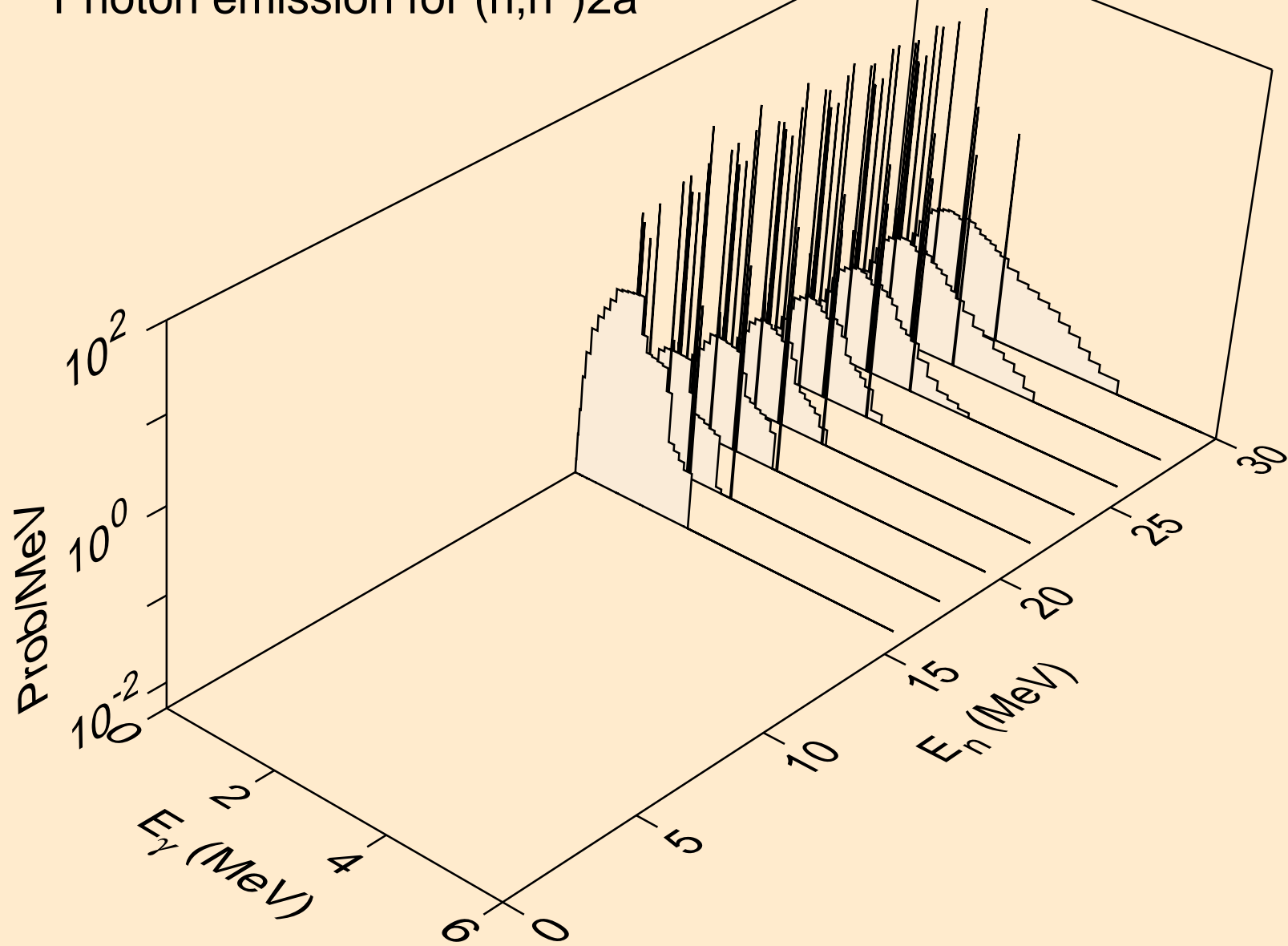
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)a



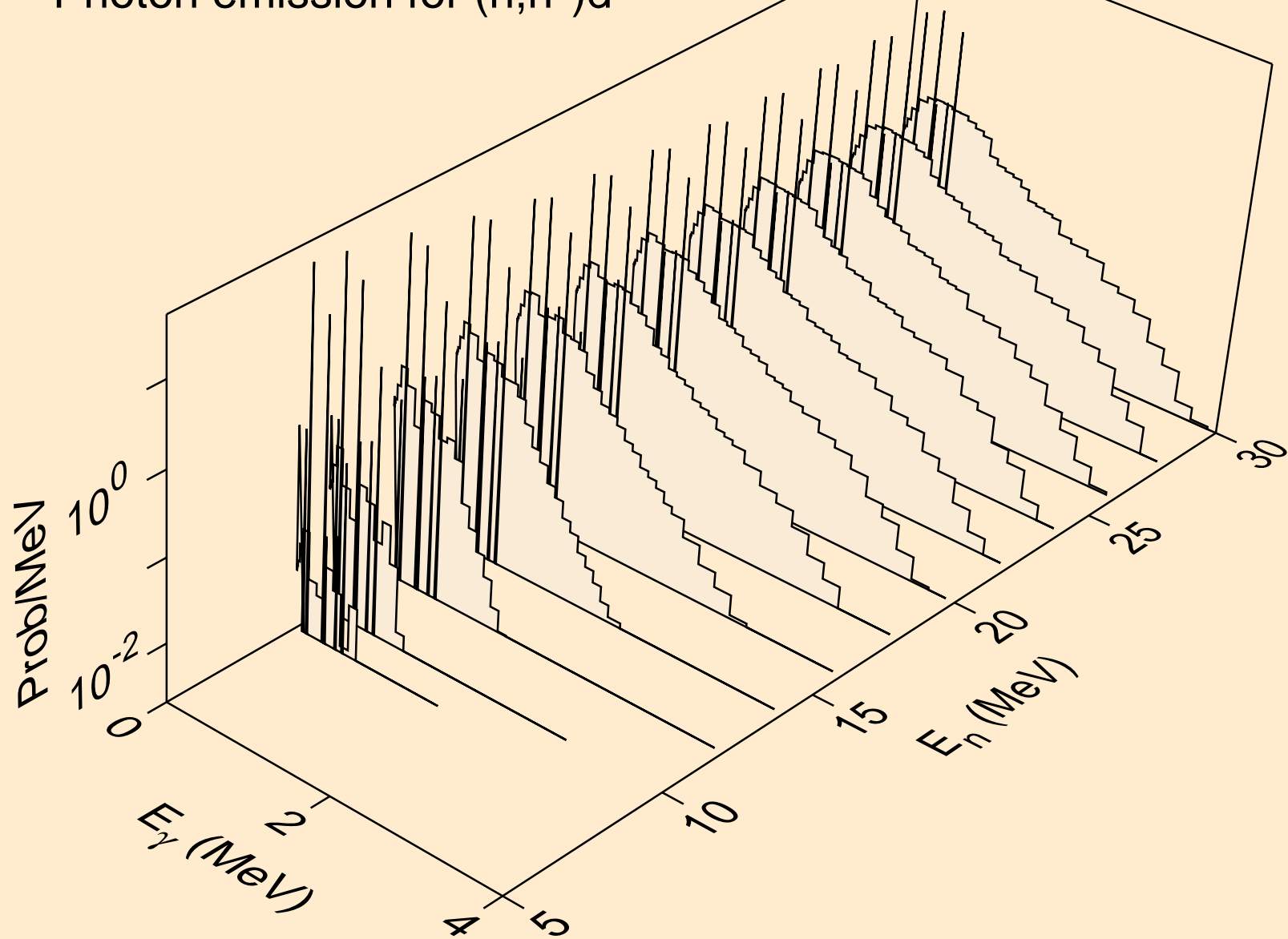
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



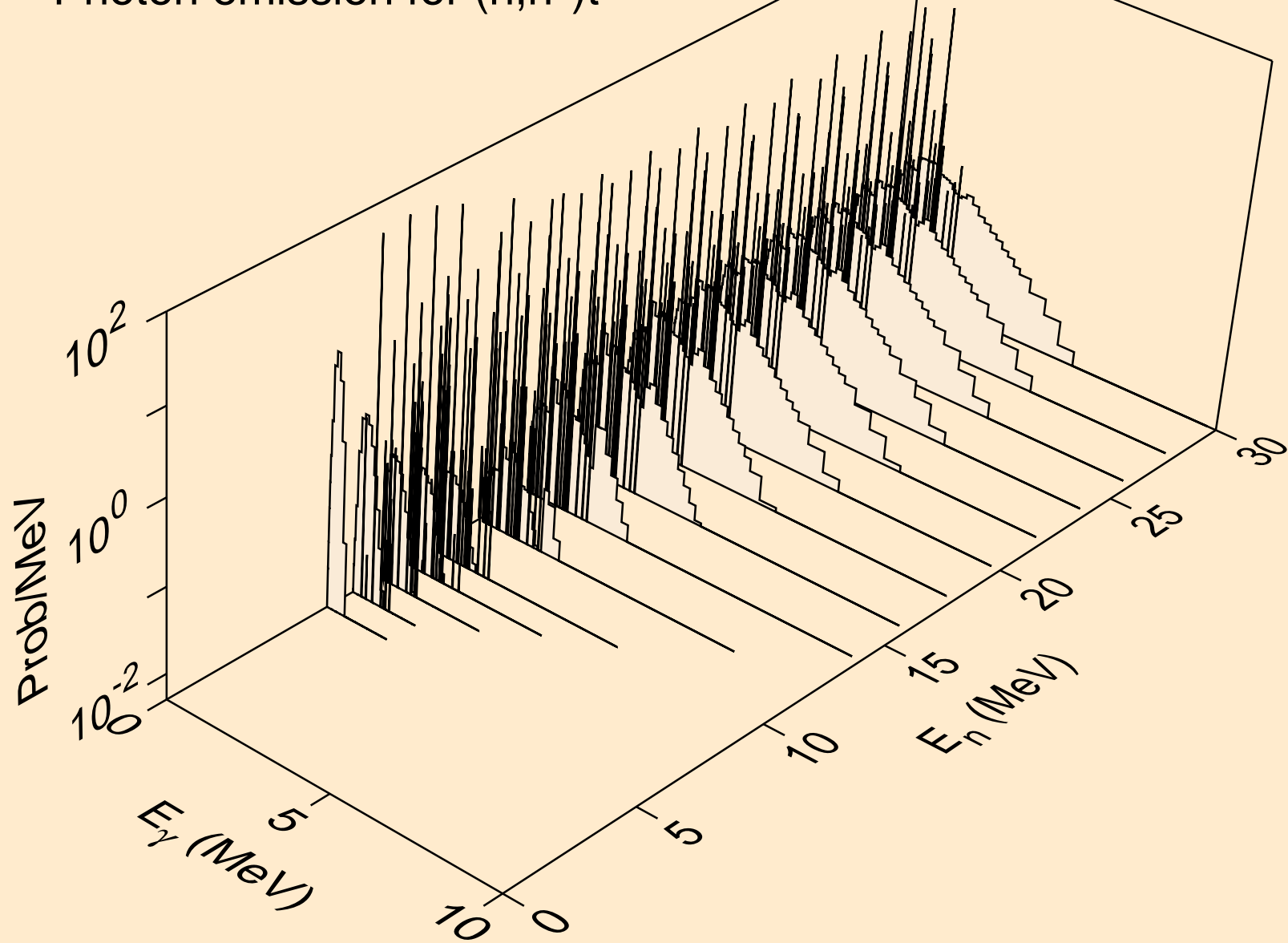
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

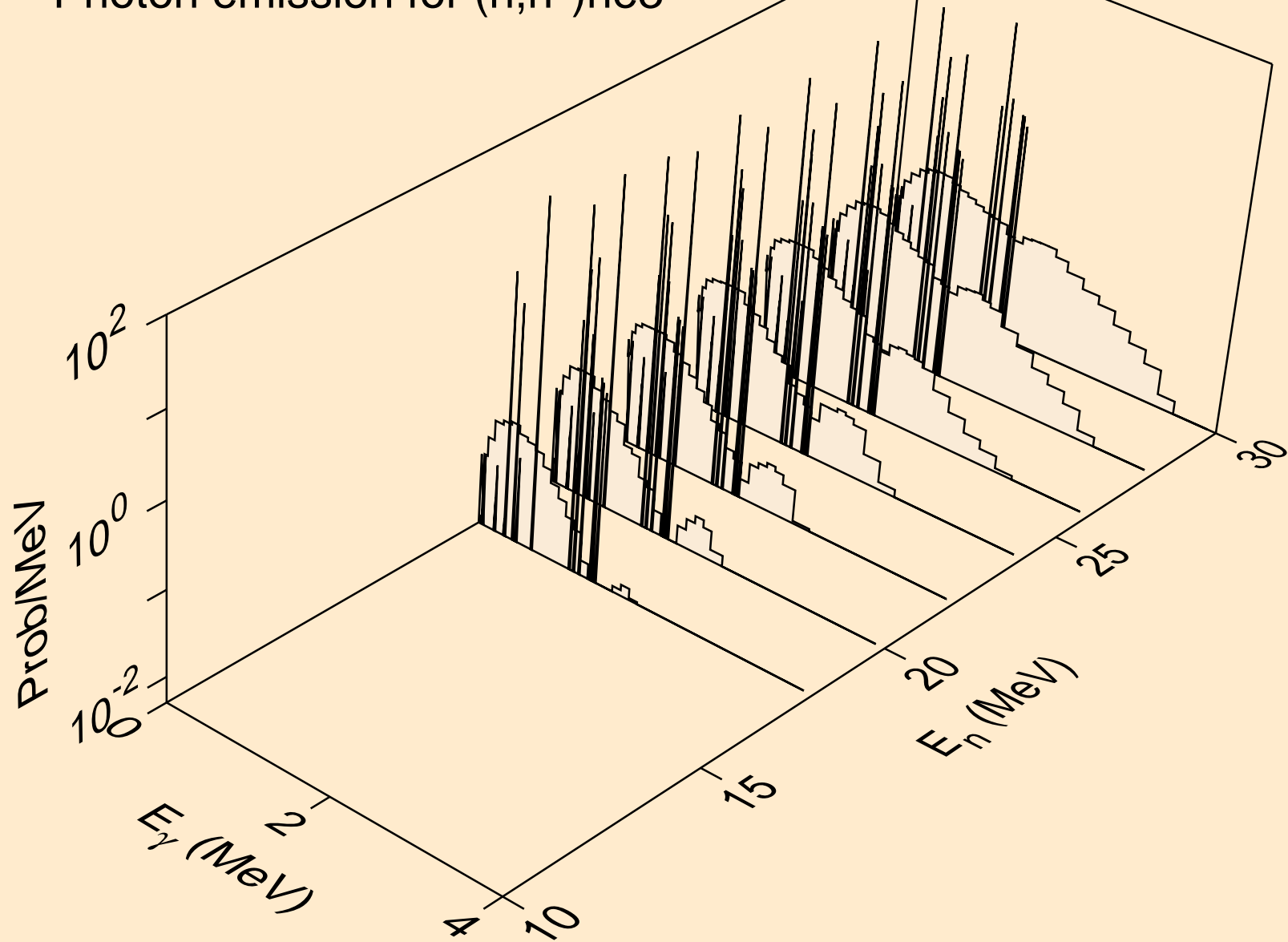


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

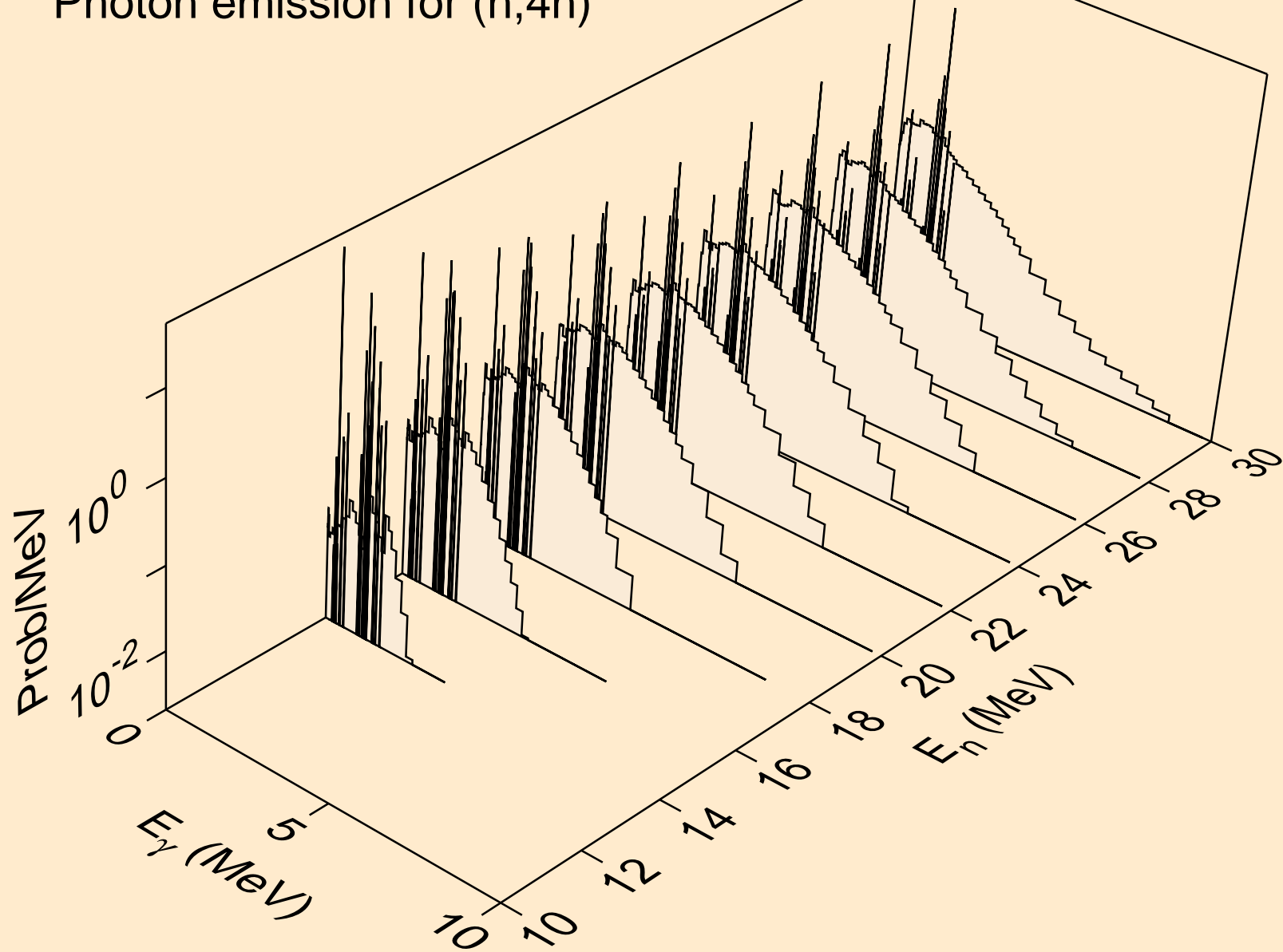




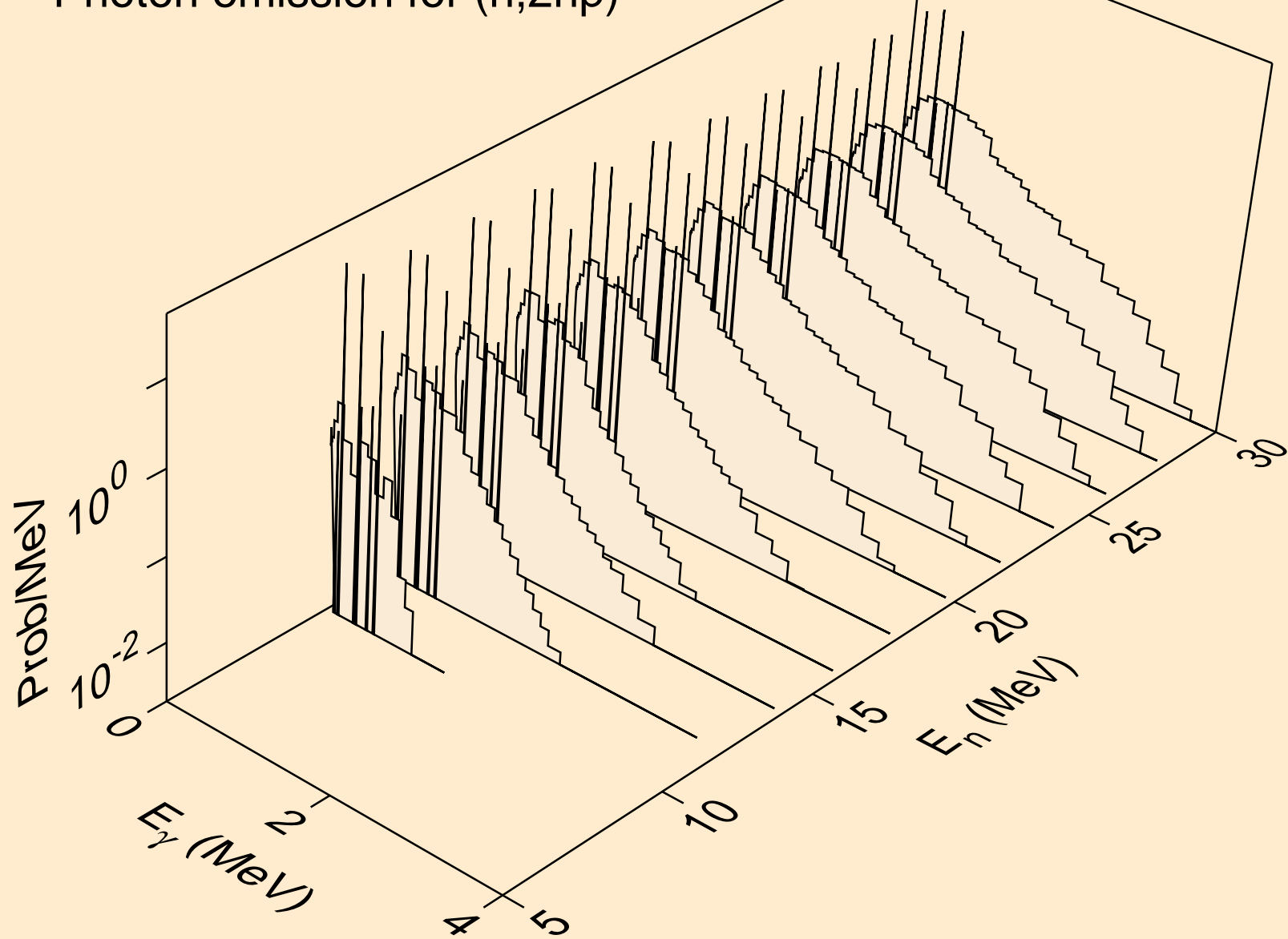
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



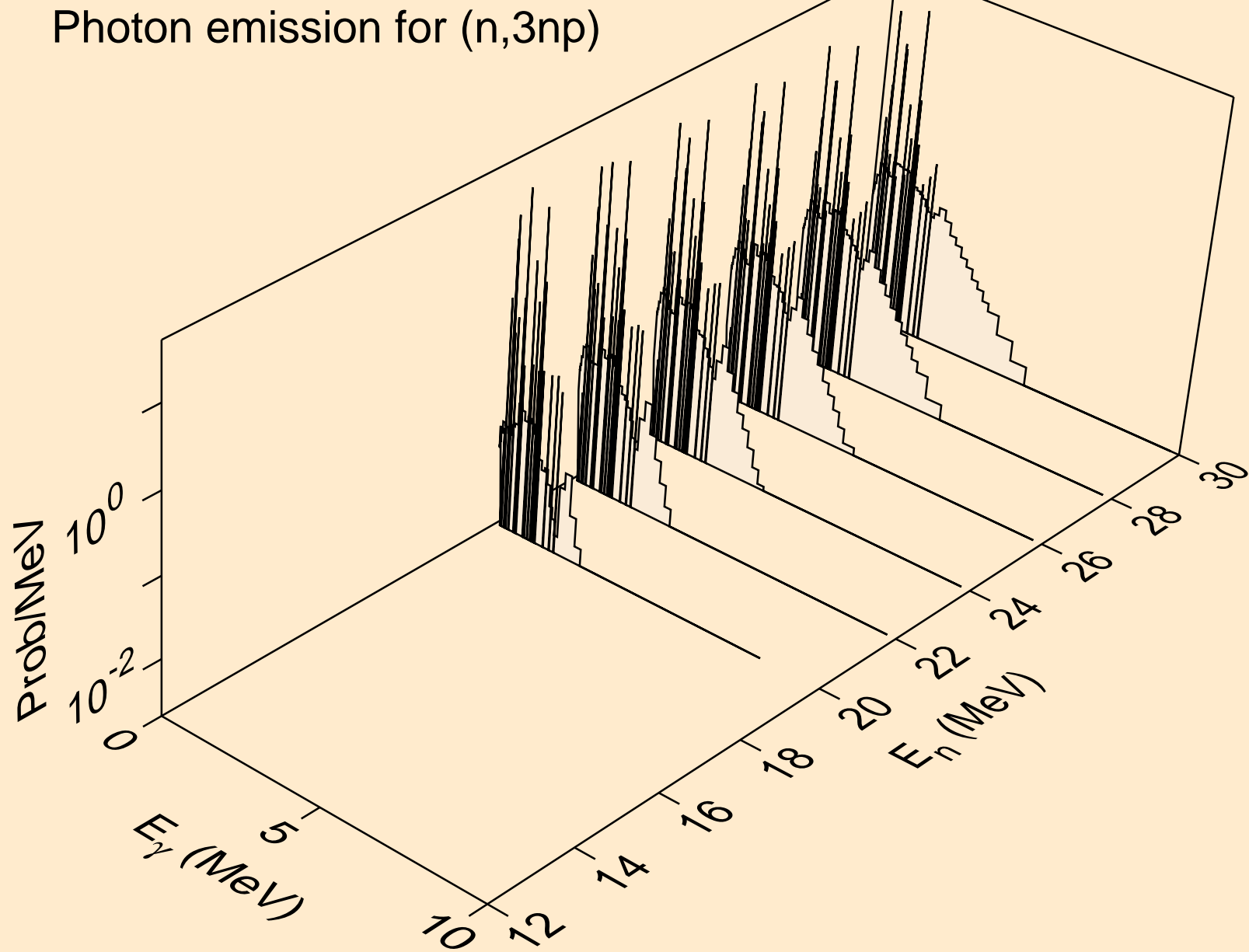
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,4n)



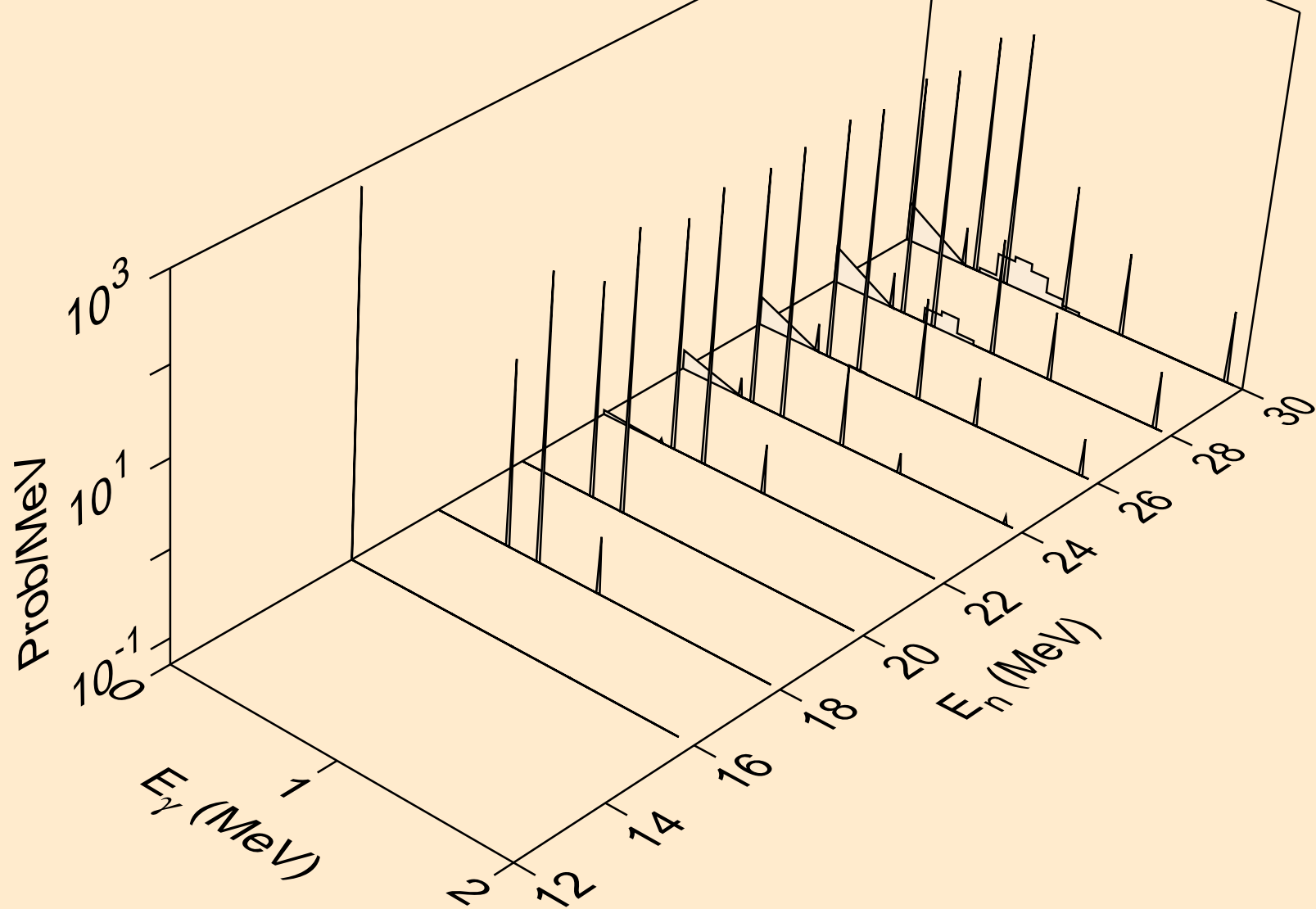
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Photon emission for (n,2np)



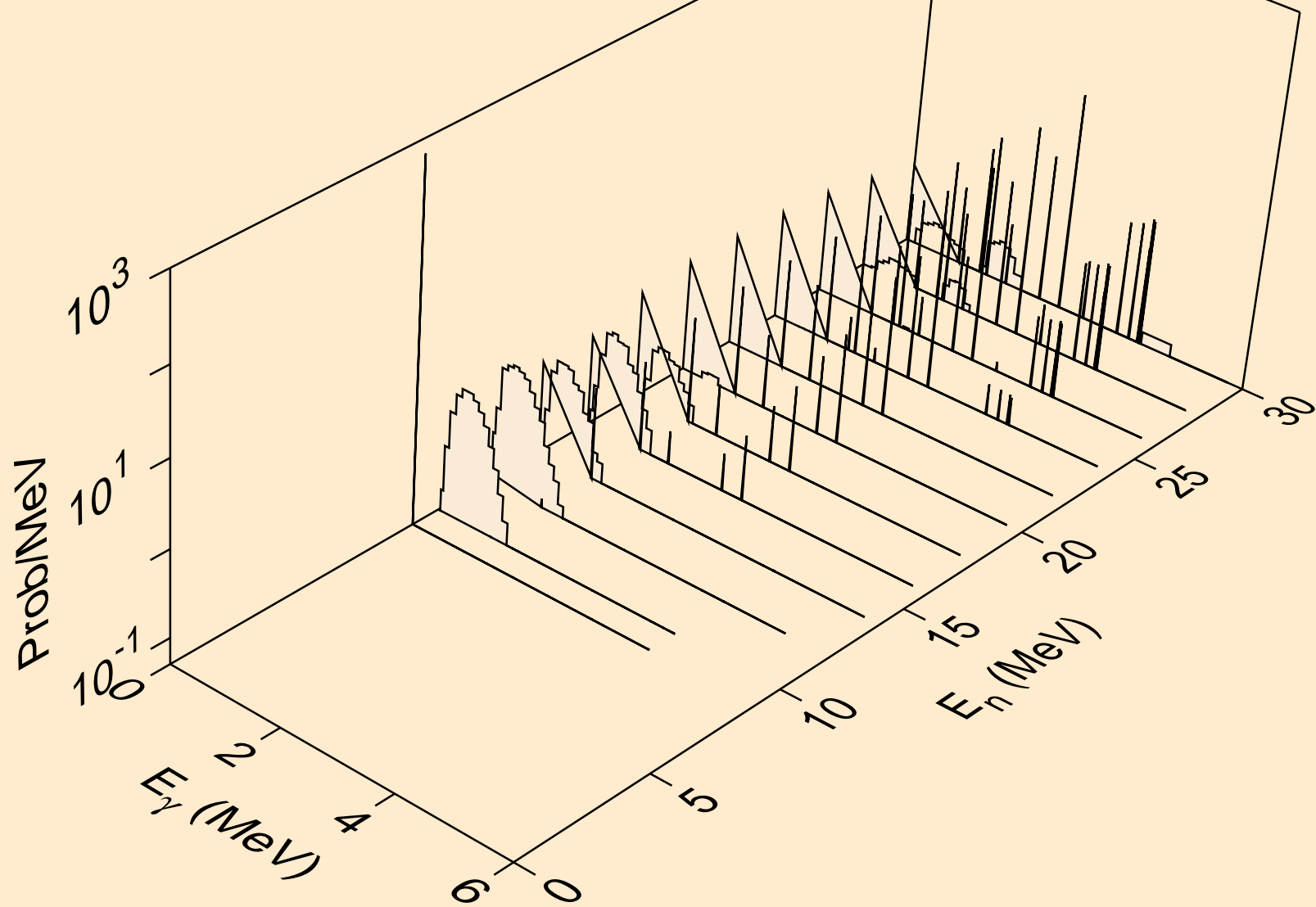
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Photon emission for (n,3np)



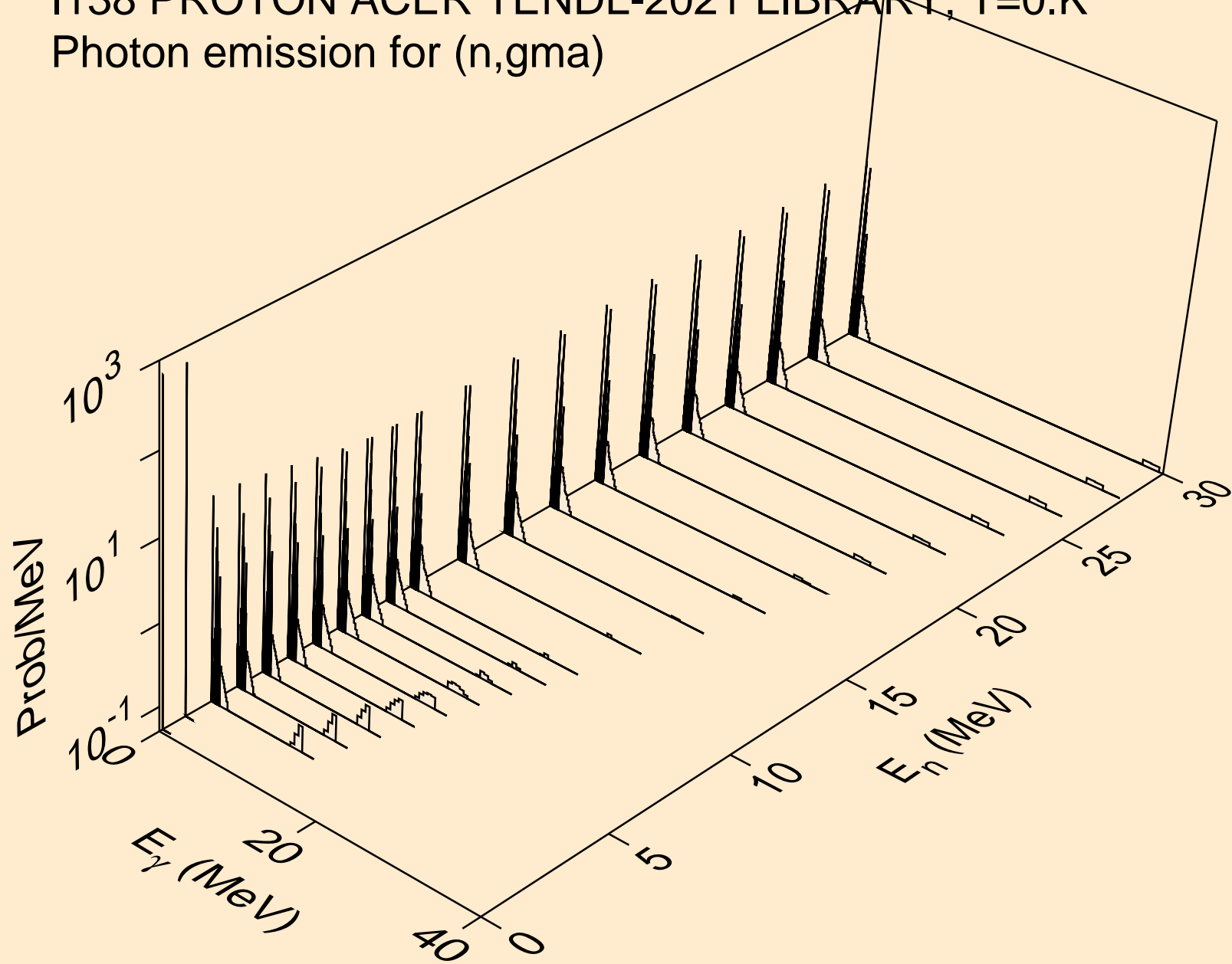
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Photon emission for (n,2np)



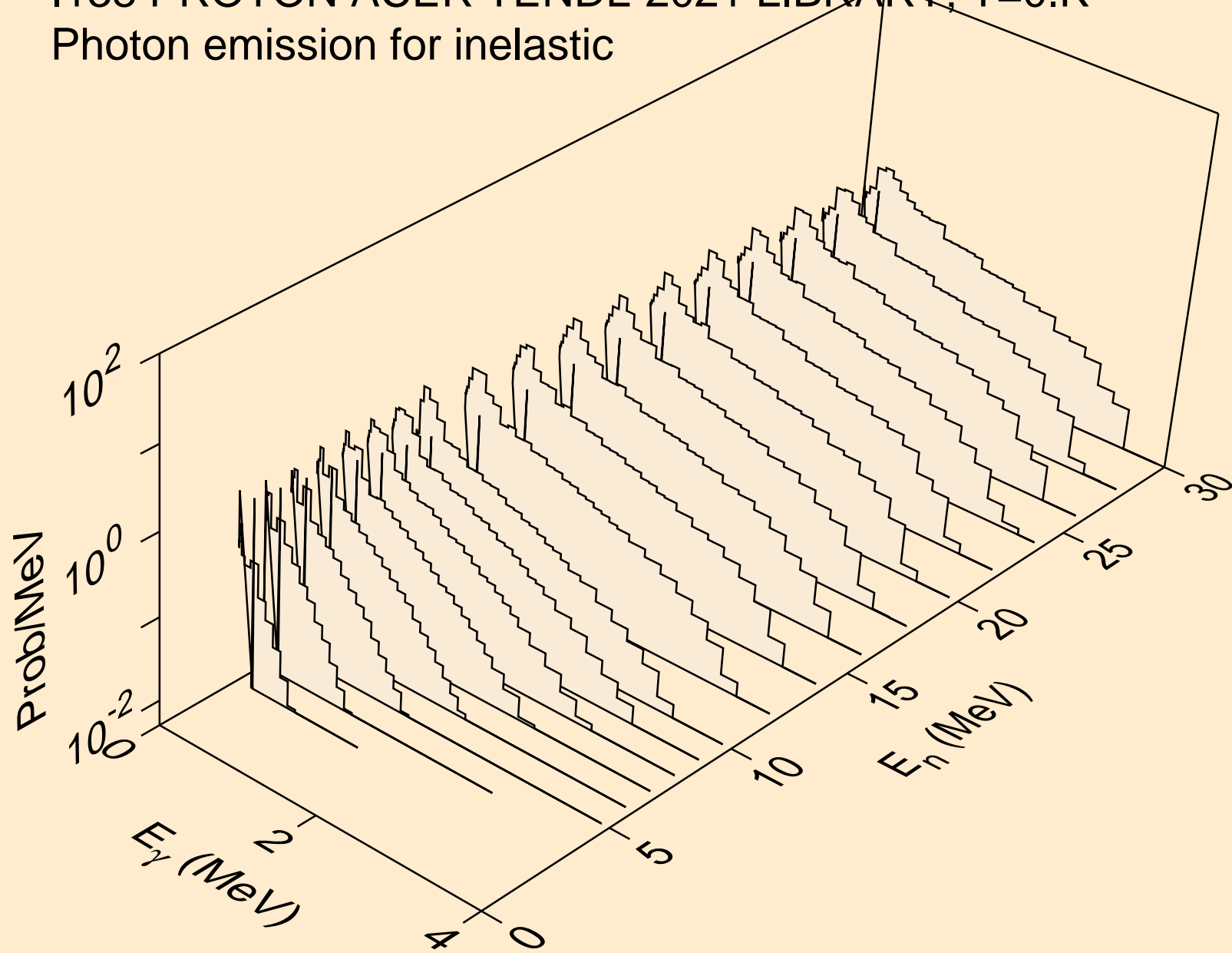
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,npa)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,gma)

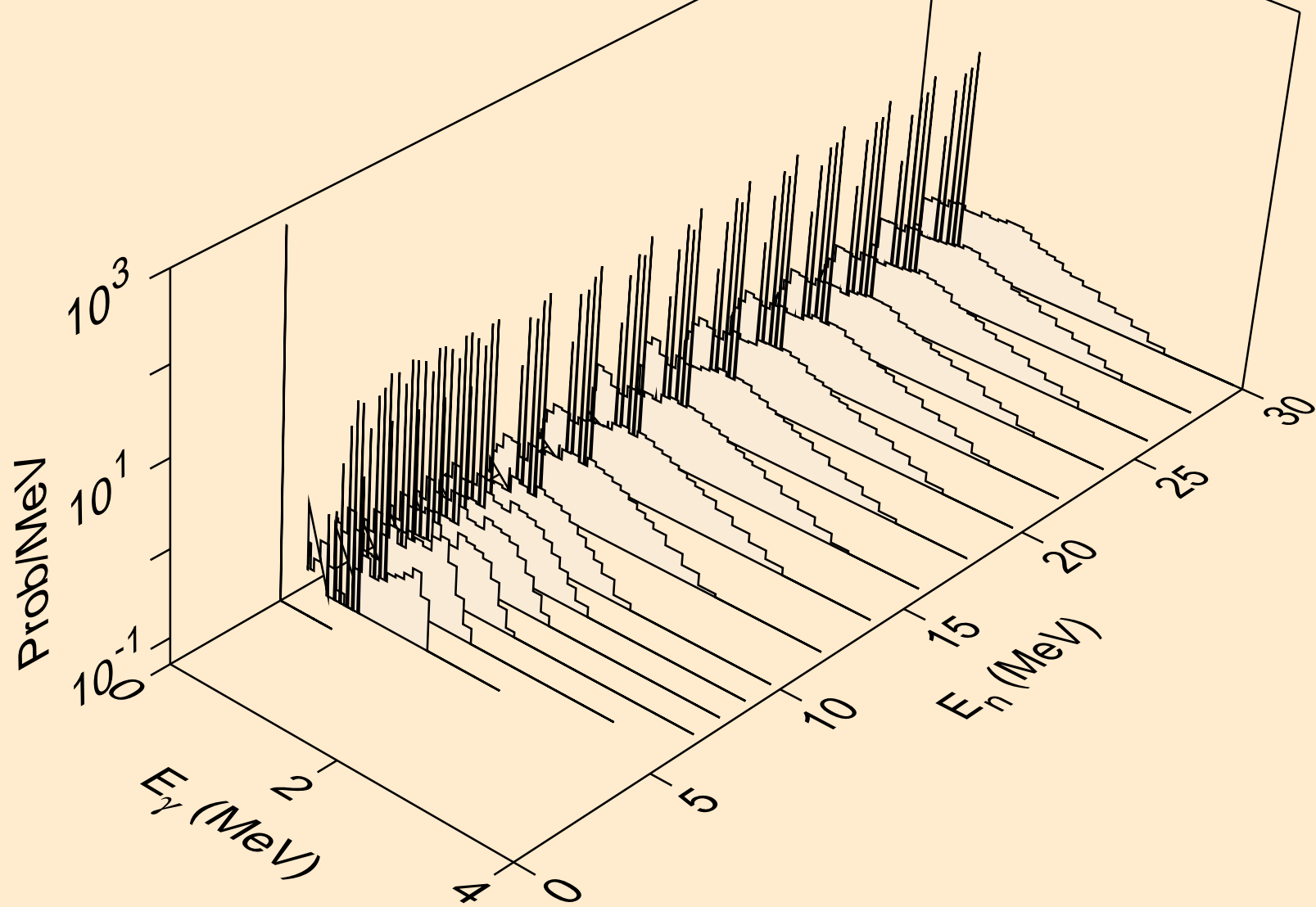


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic

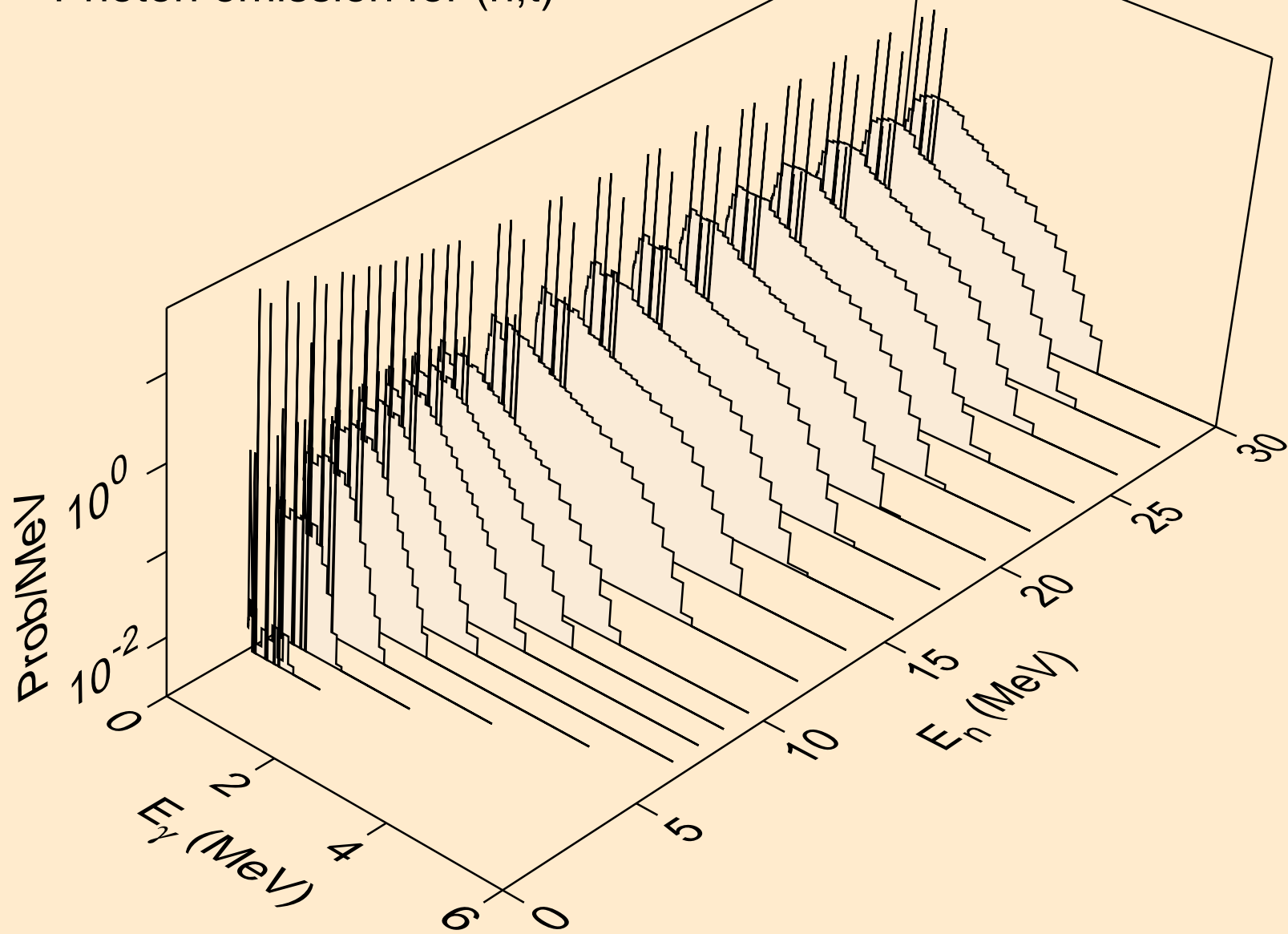




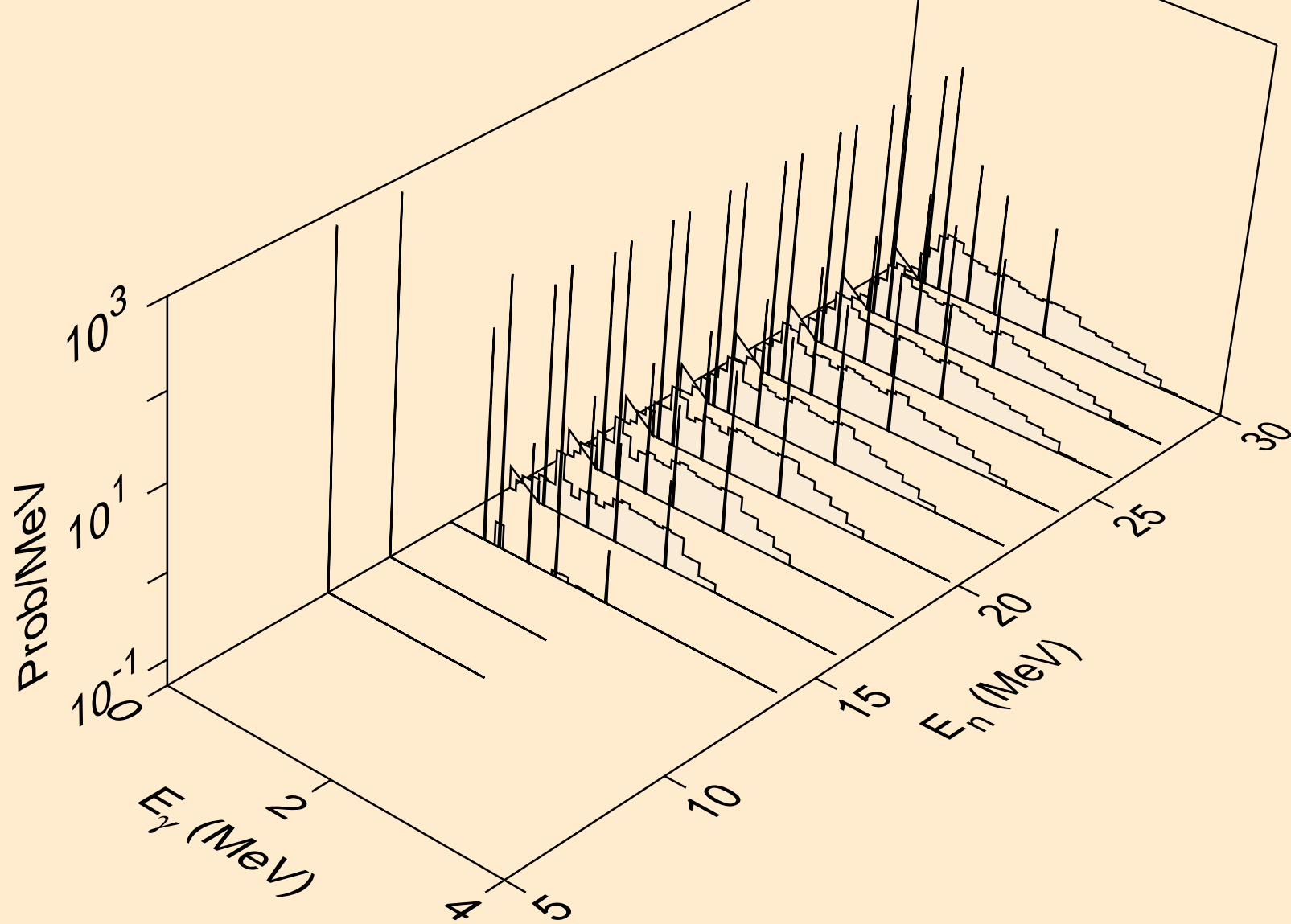
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Photon emission for (n,d)



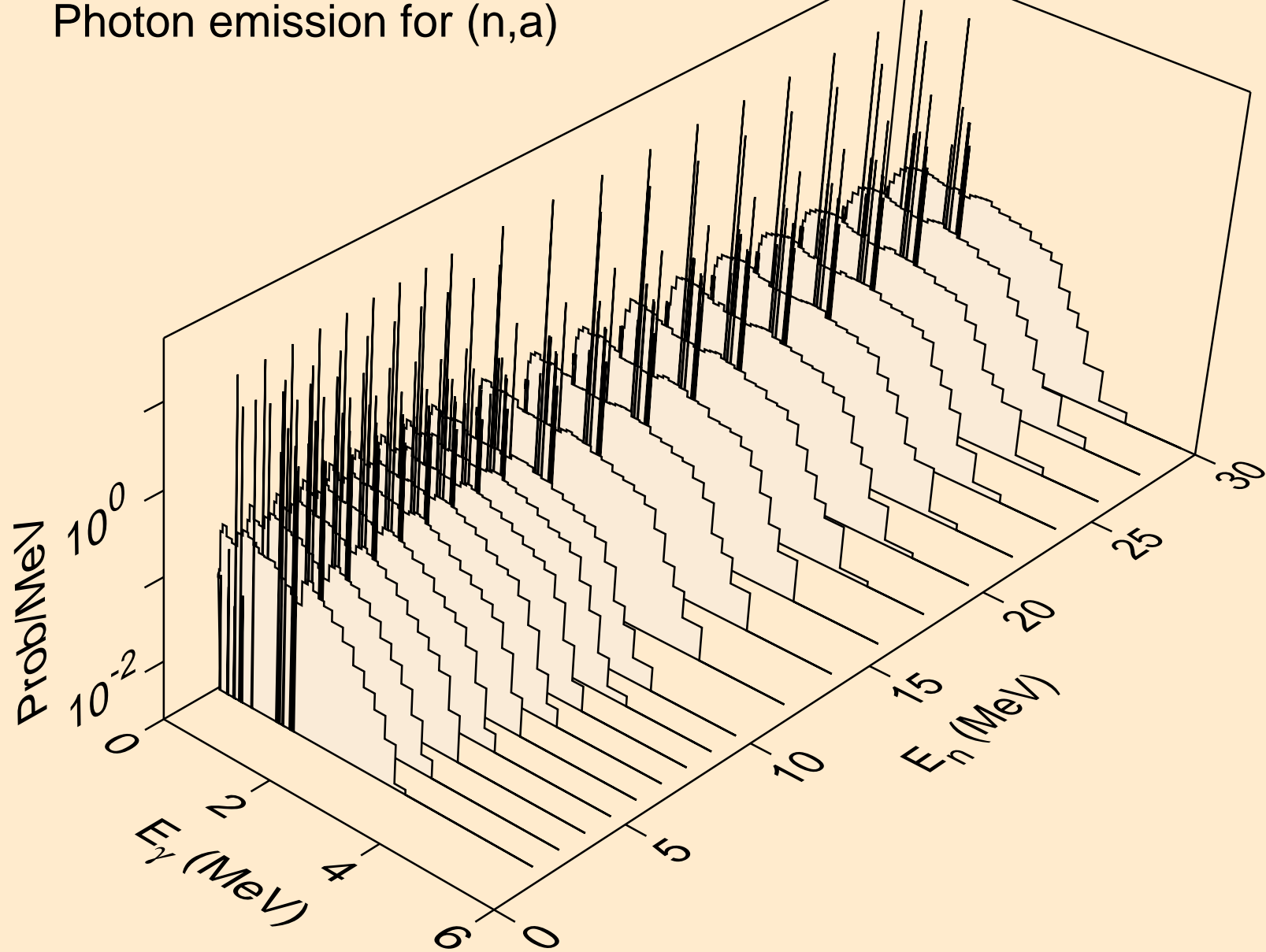
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



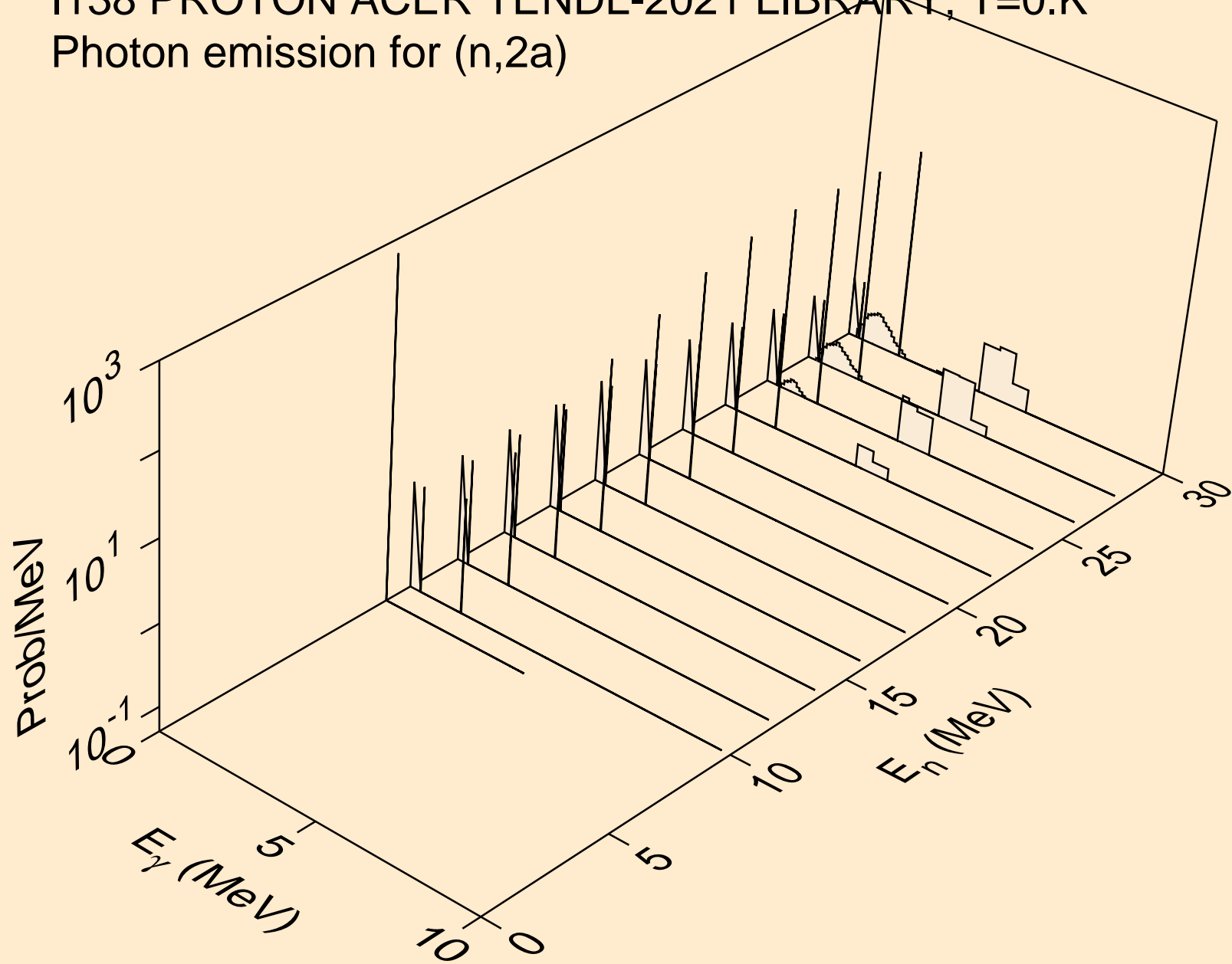
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Photon emission for (n,he3)



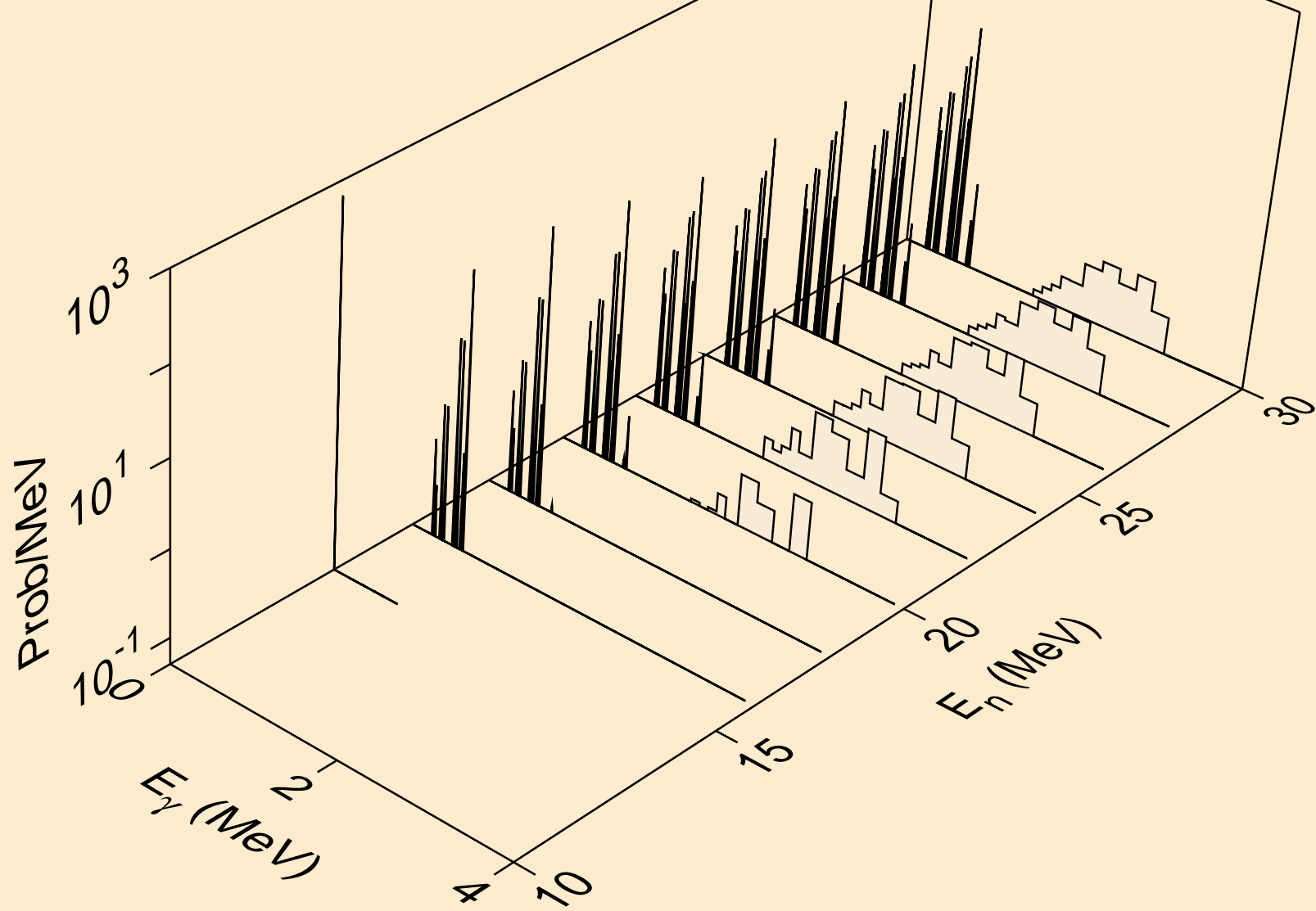
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Photon emission for (n,a)



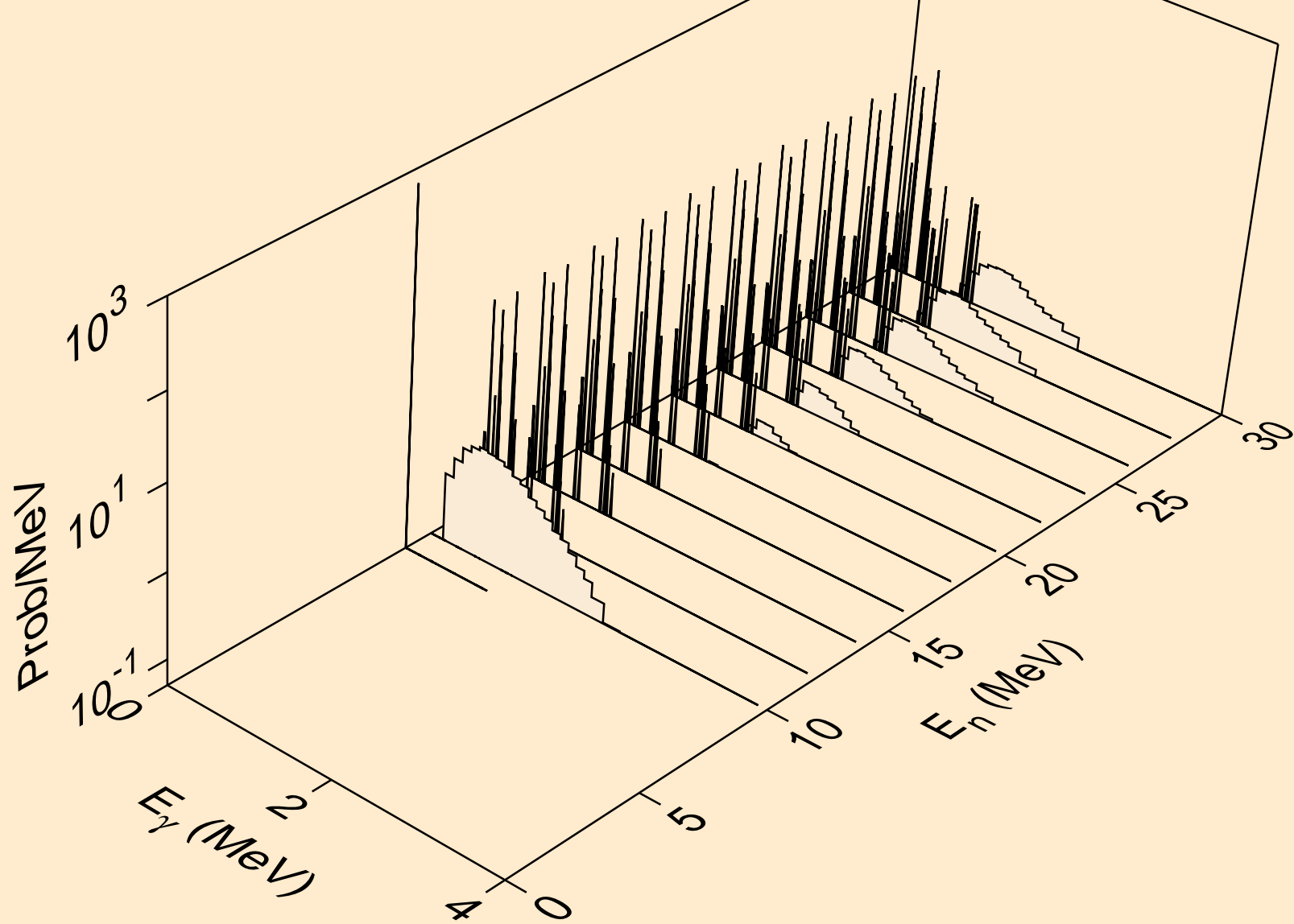
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Photon emission for (n,2a)



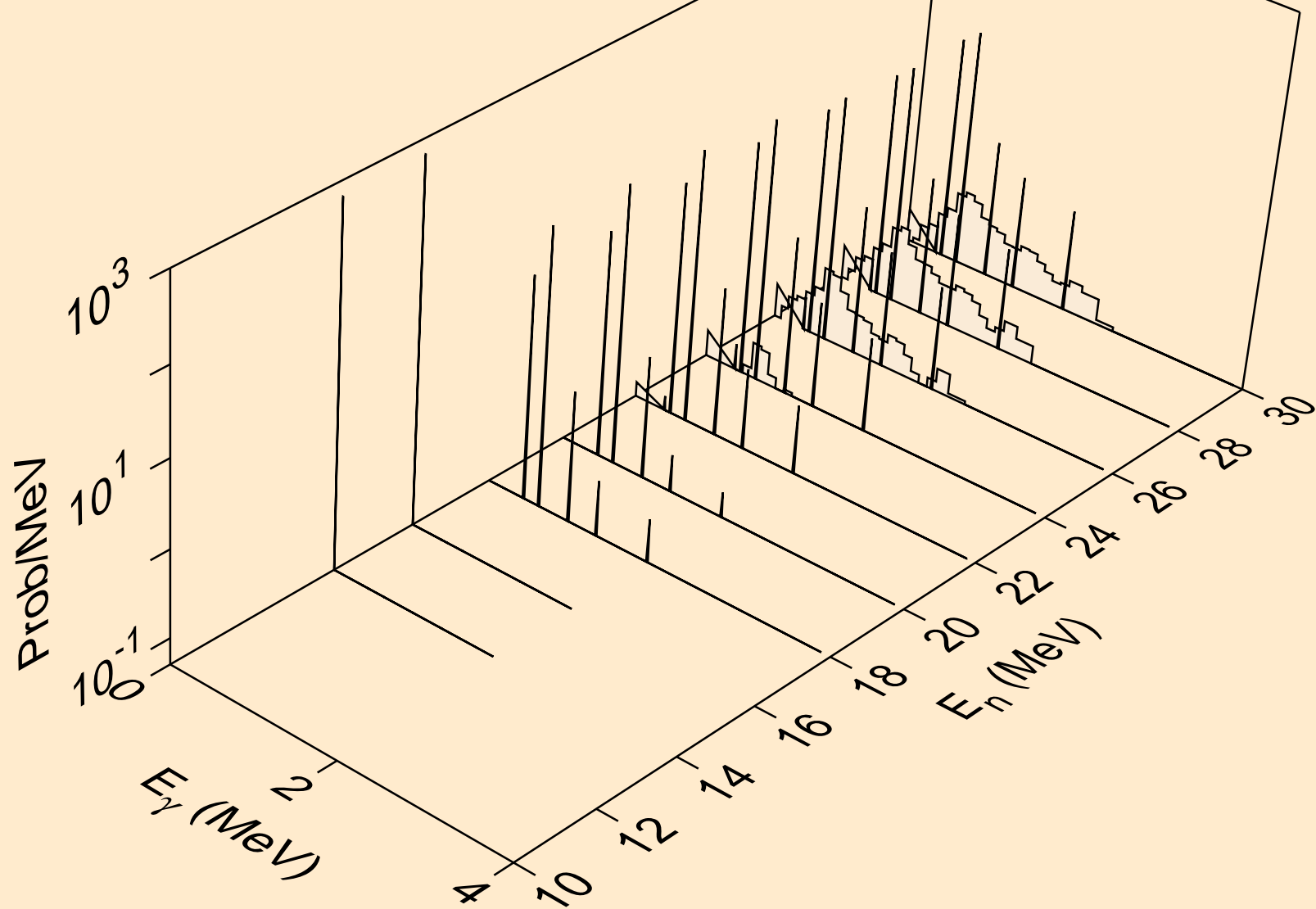
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pa)

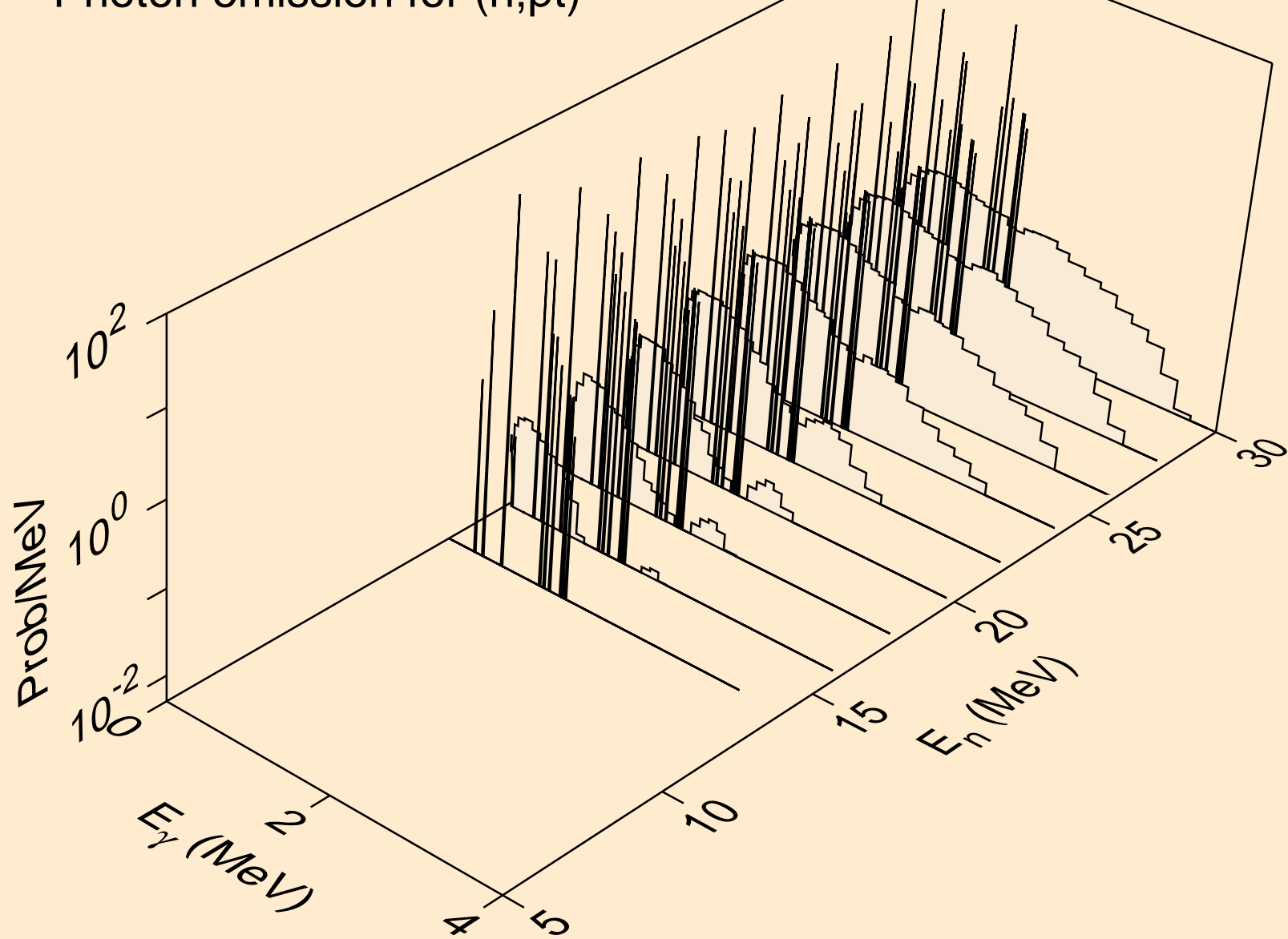


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pd)

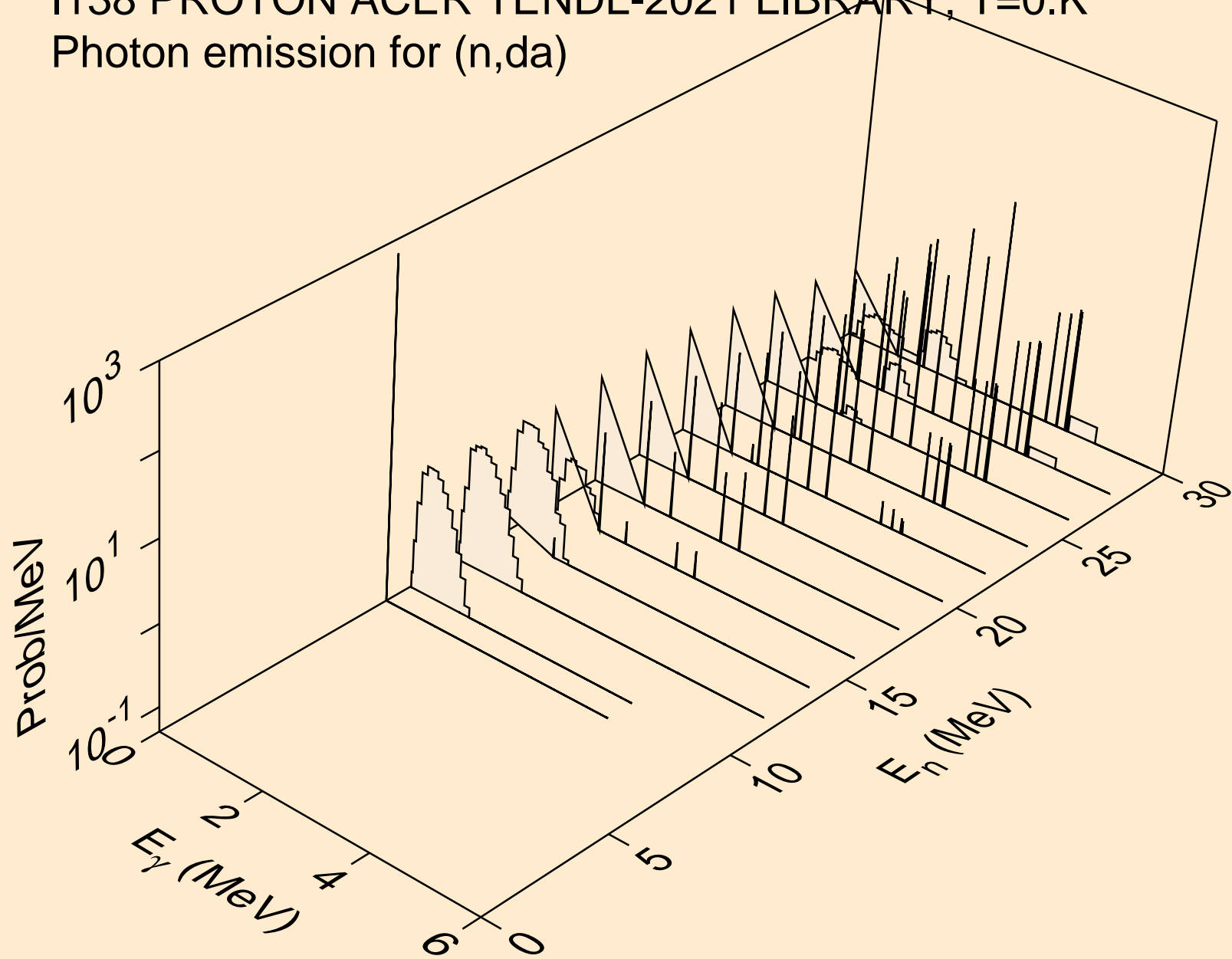




I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pt)

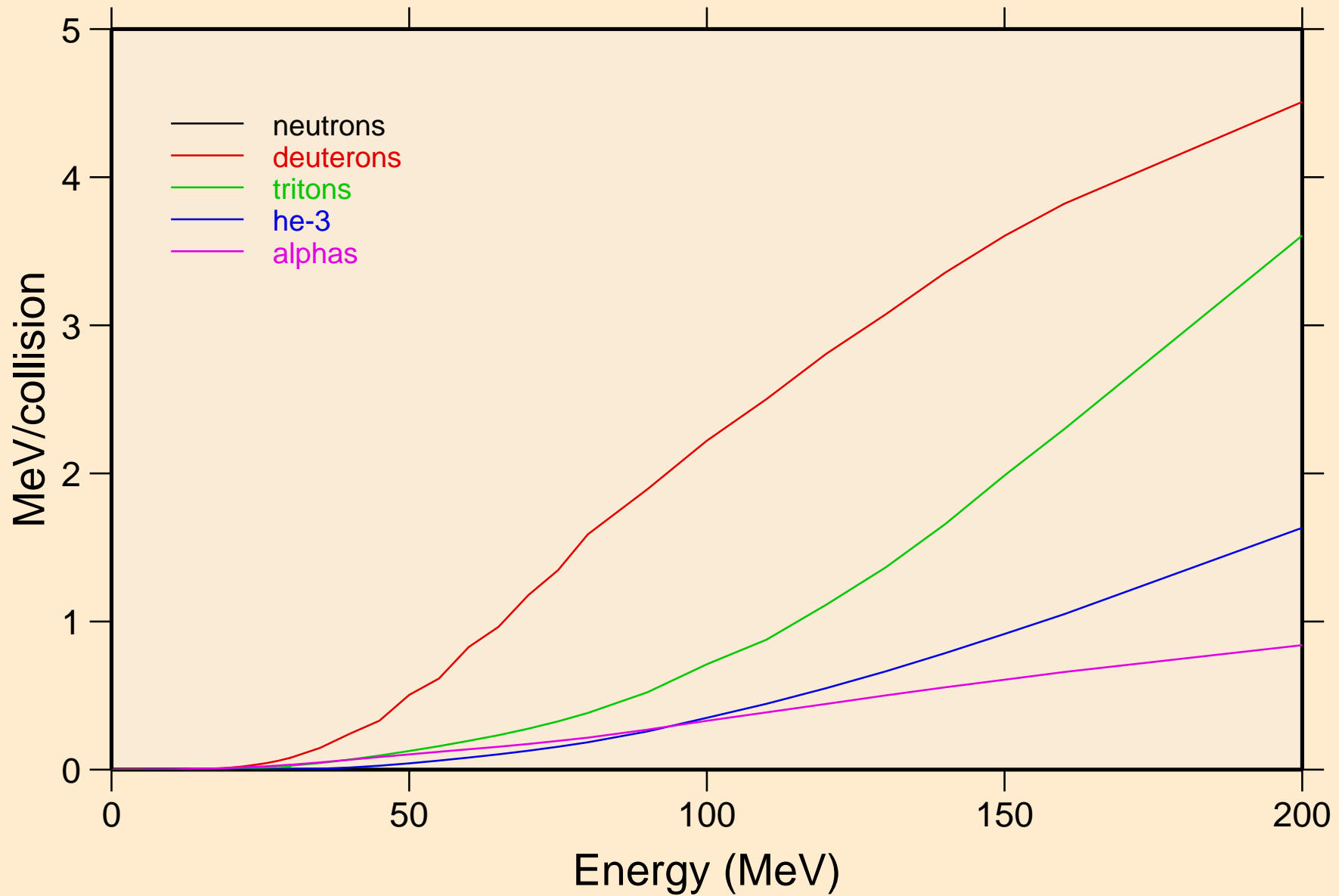


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,da)

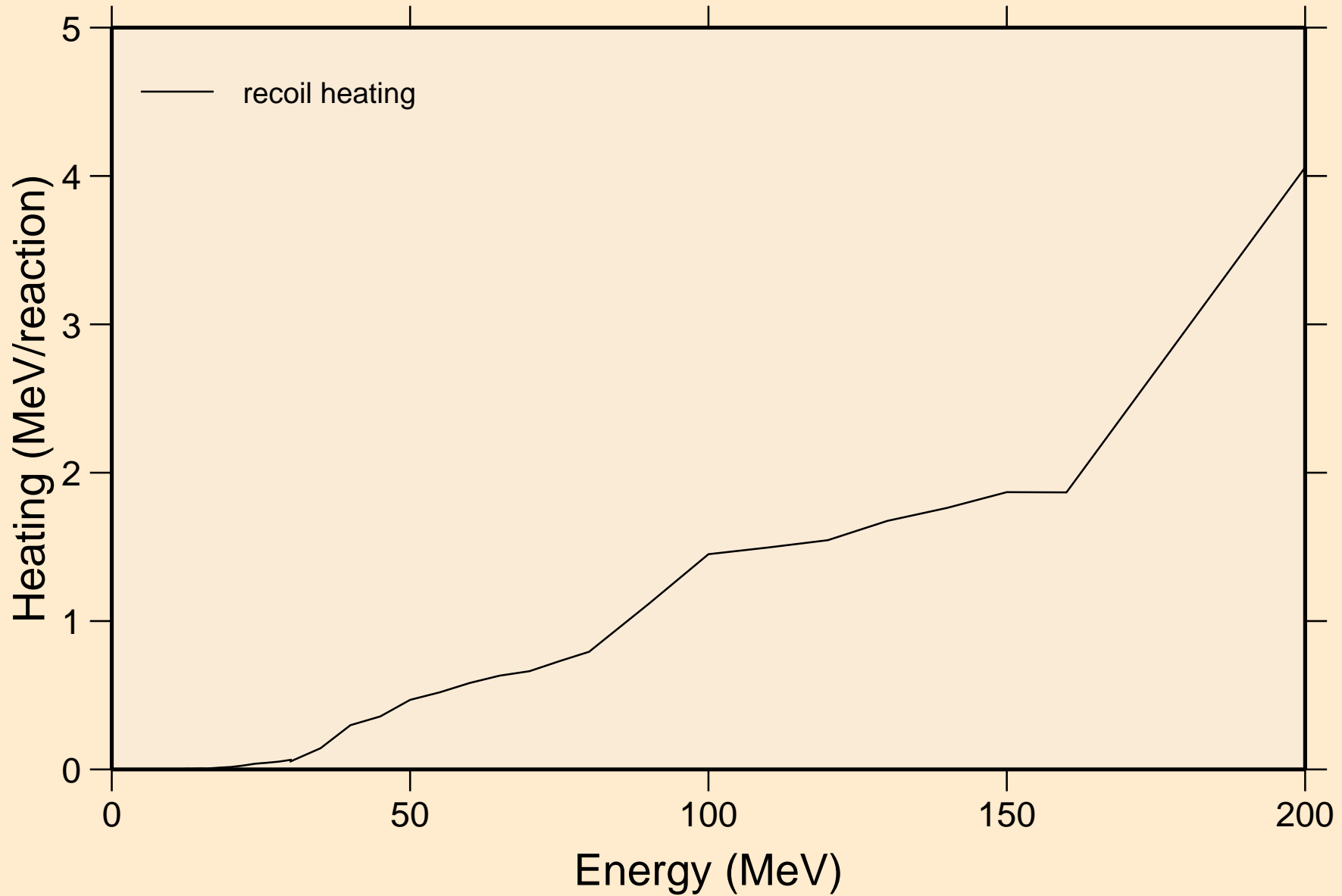


# I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K

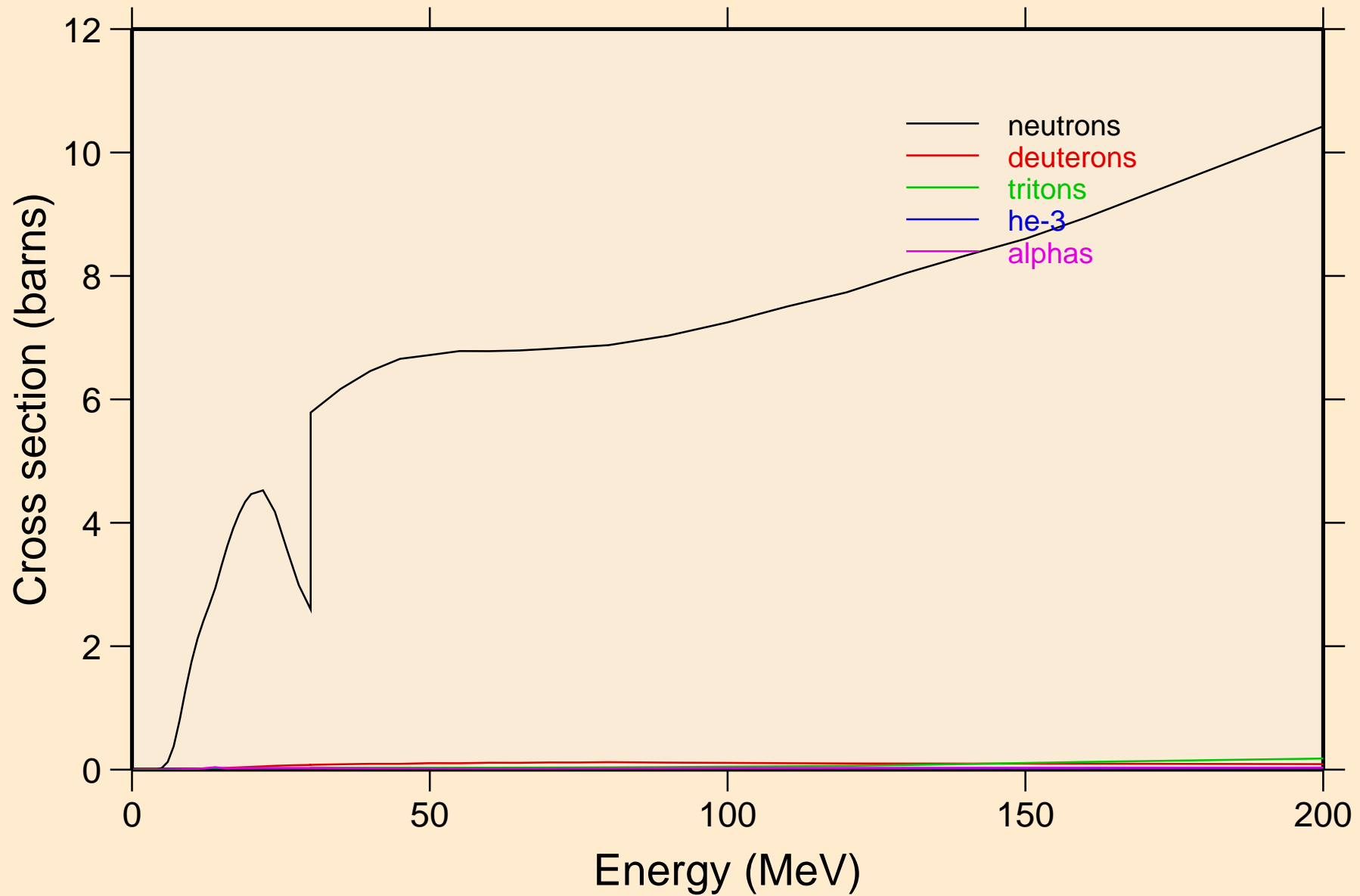
## Particle heating contributions



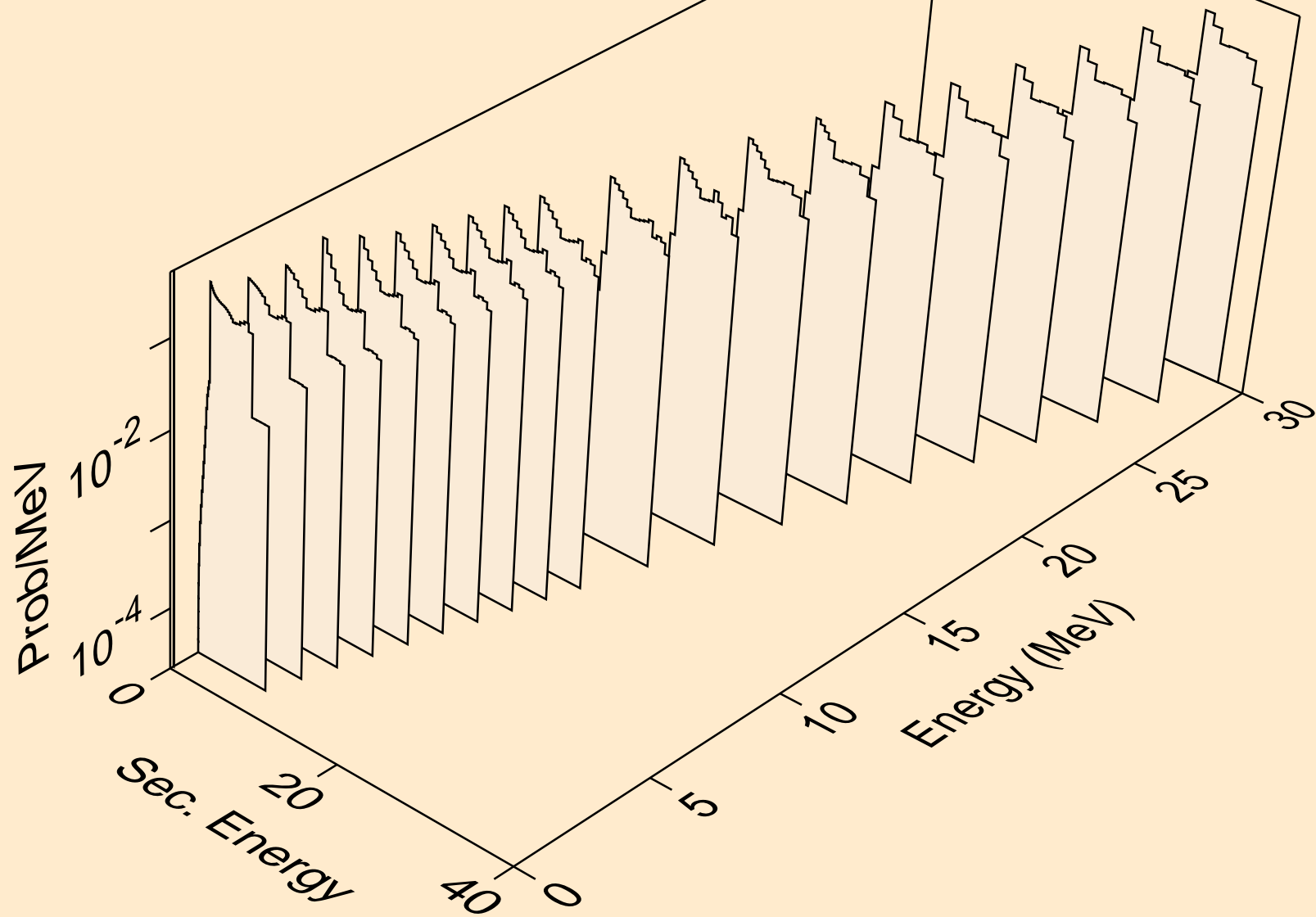
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Recoil Heating



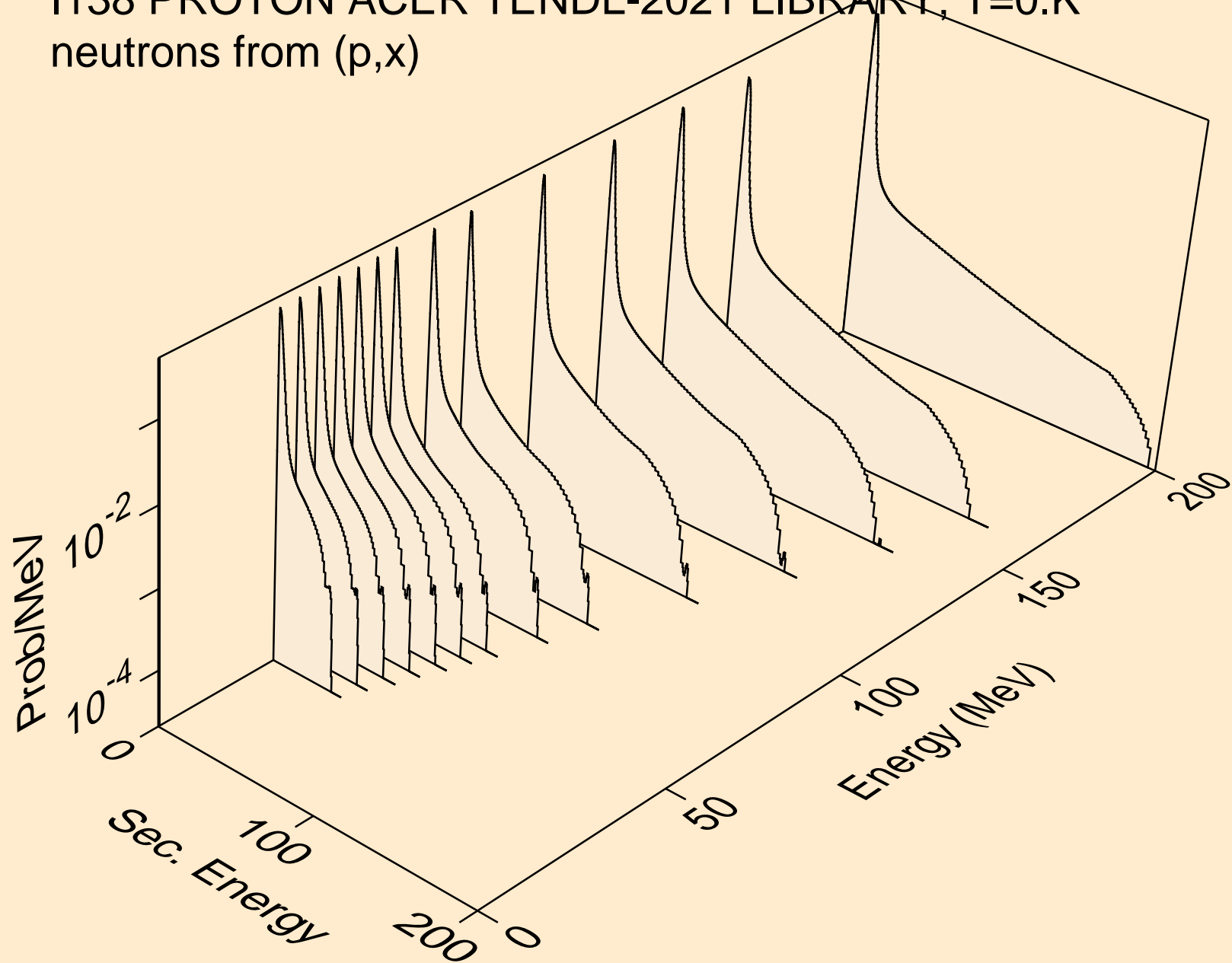
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections



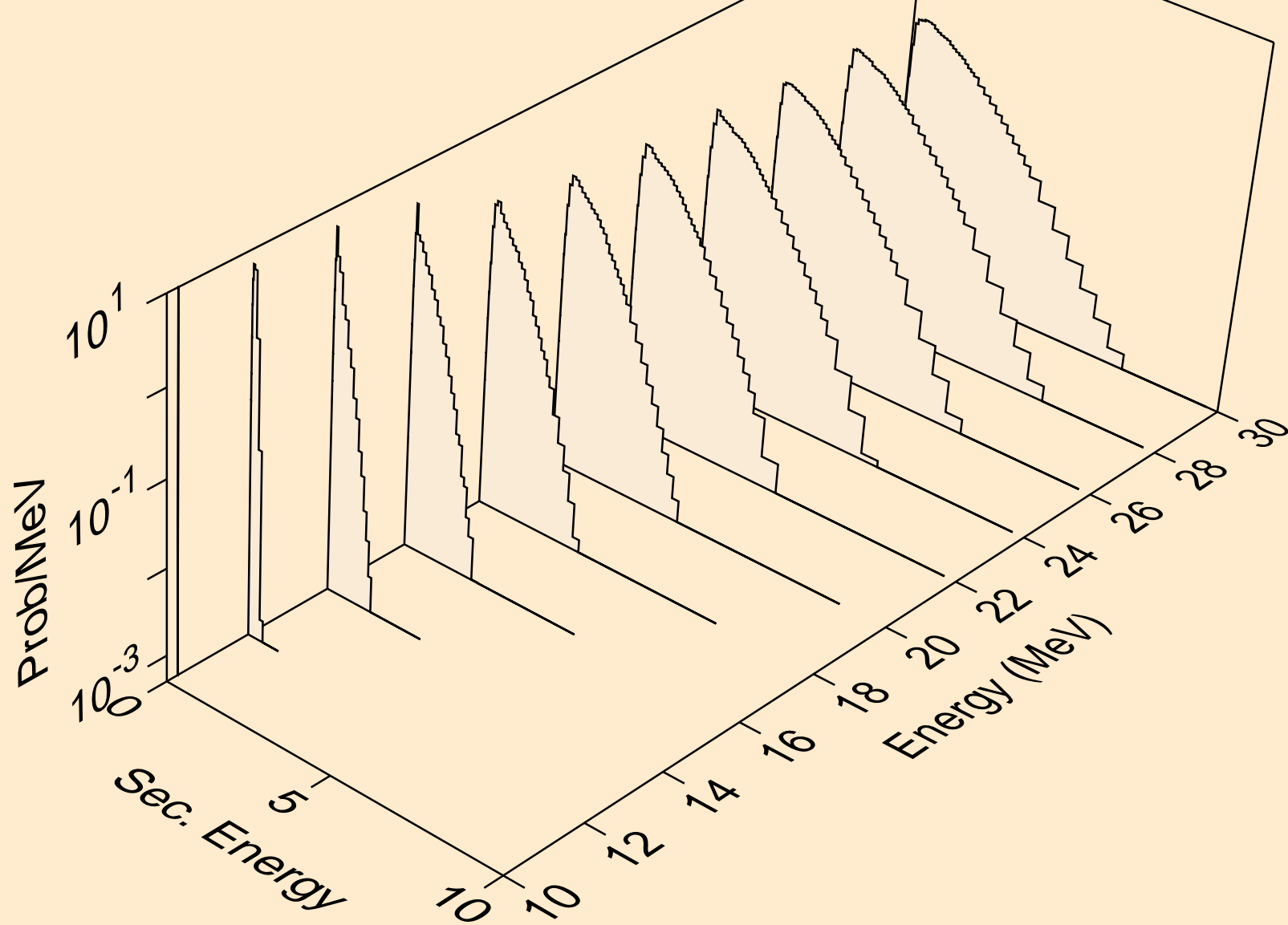
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,x)

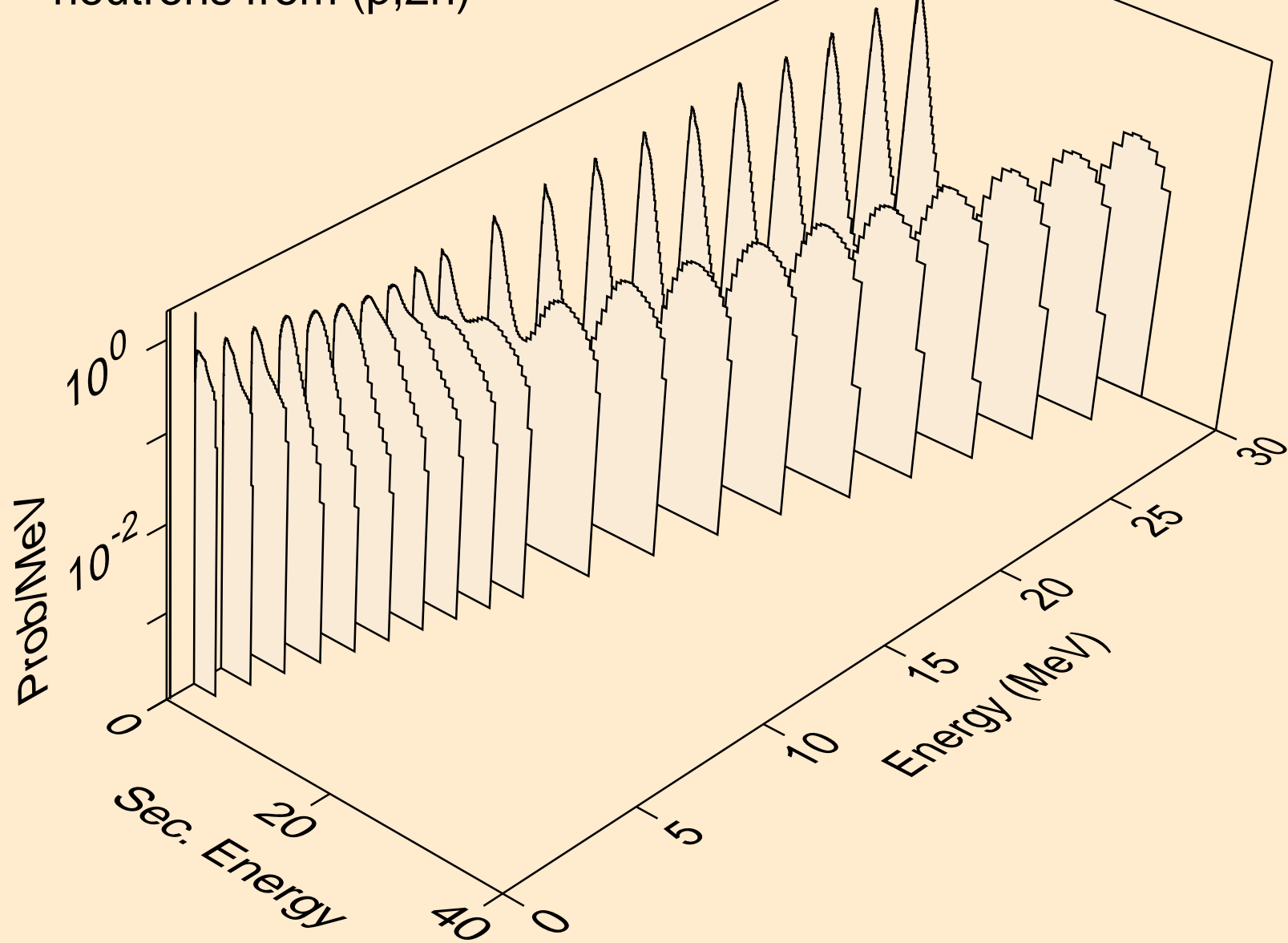


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2nd)

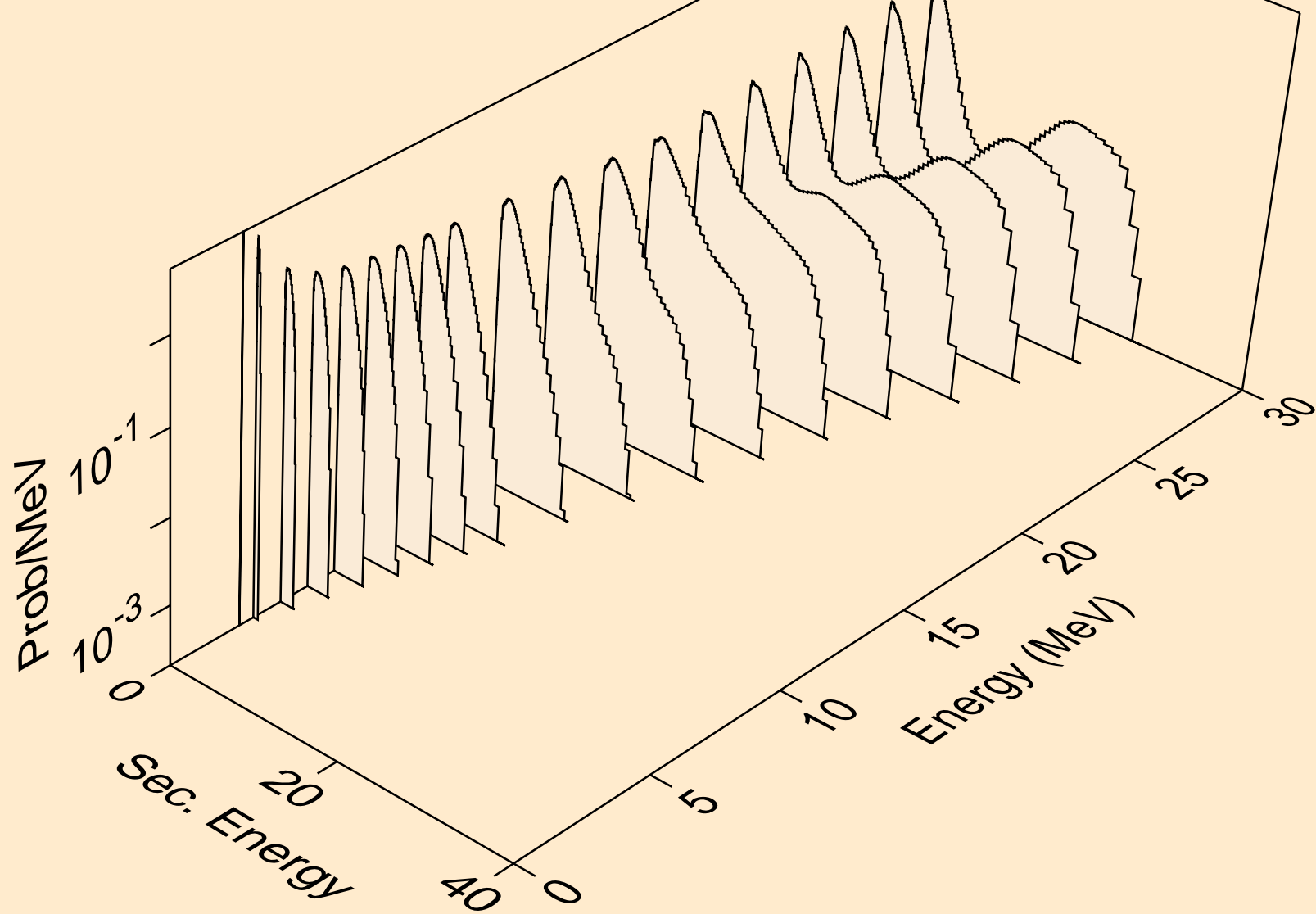




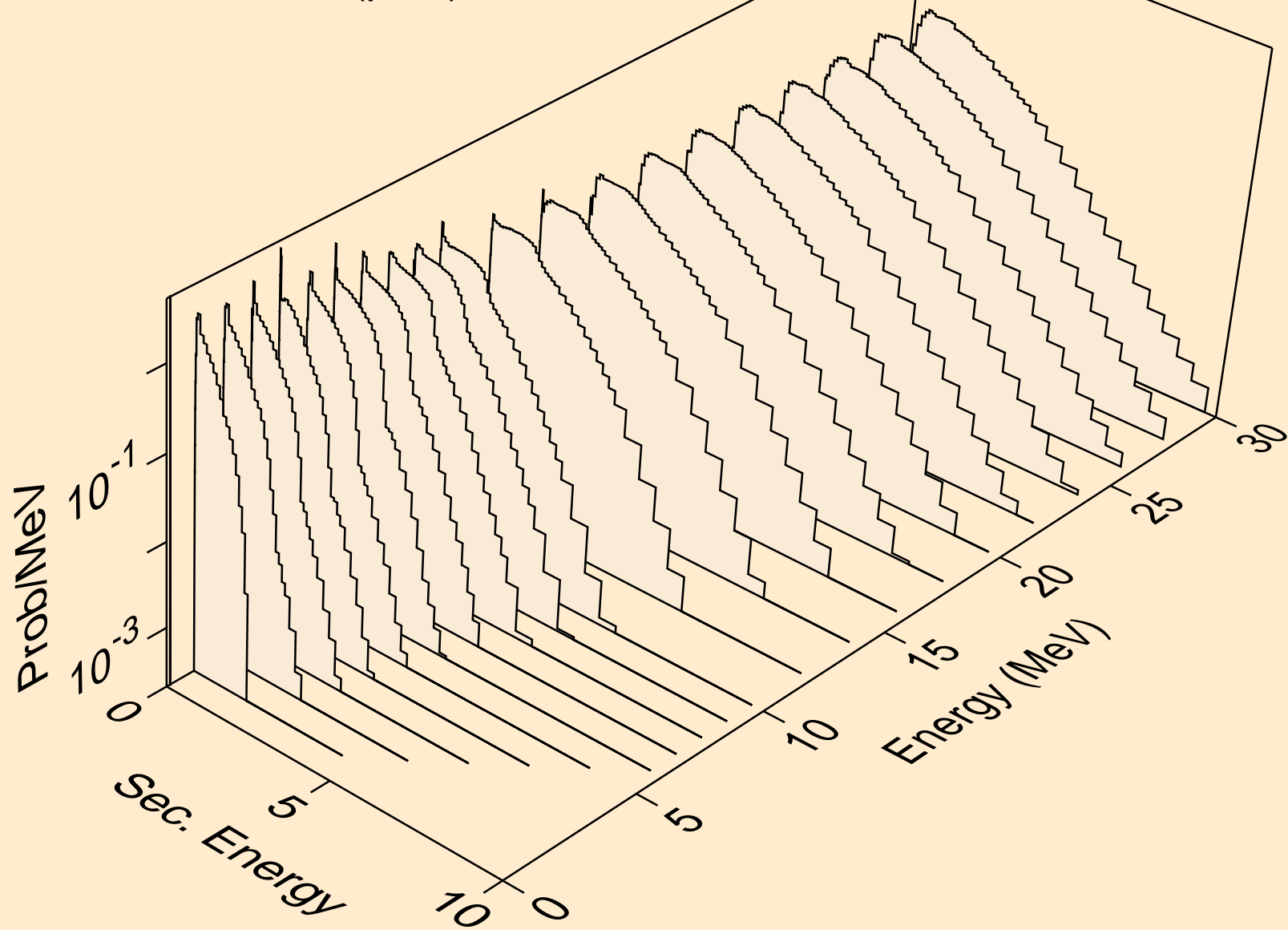
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2n)



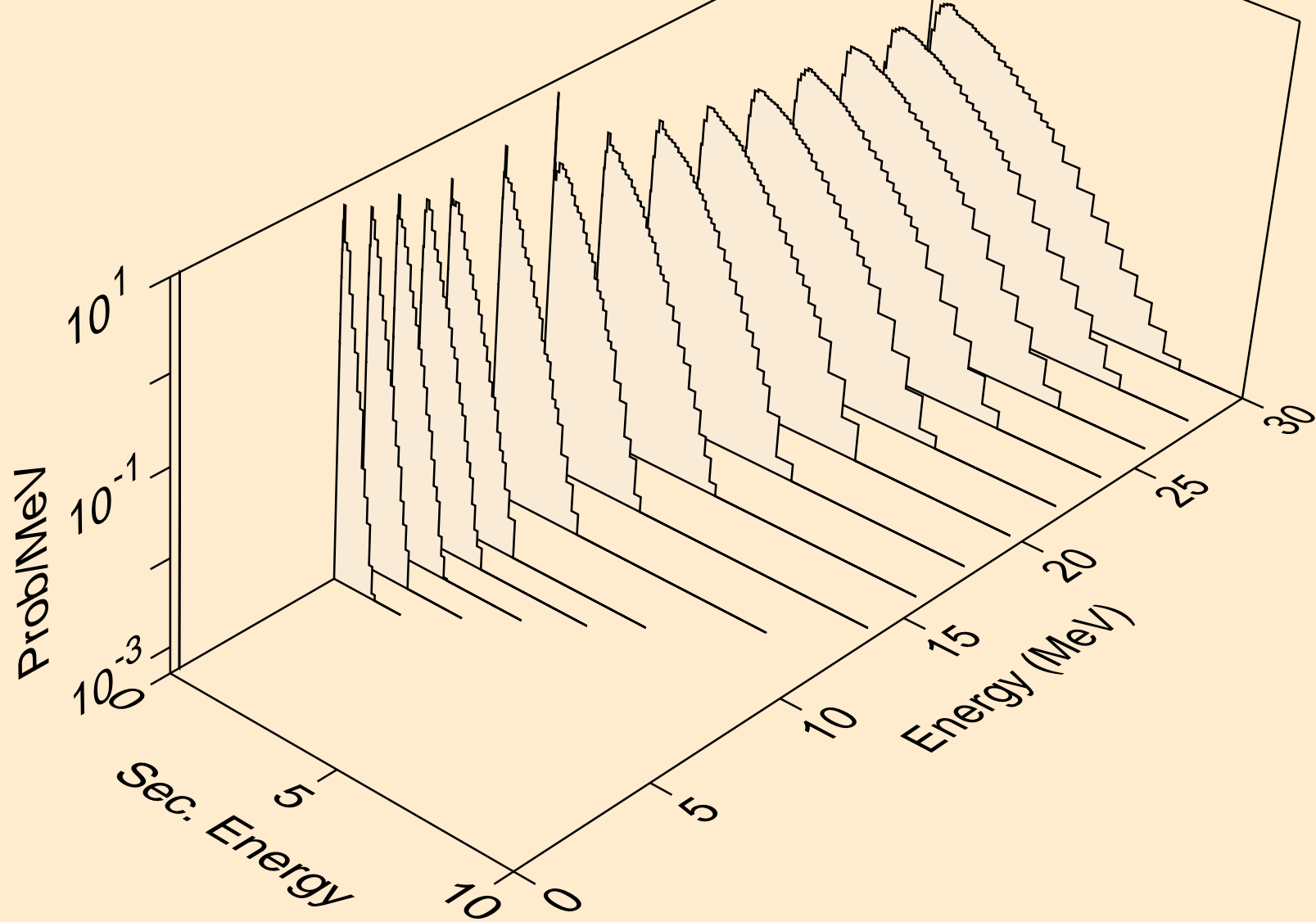
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3n)



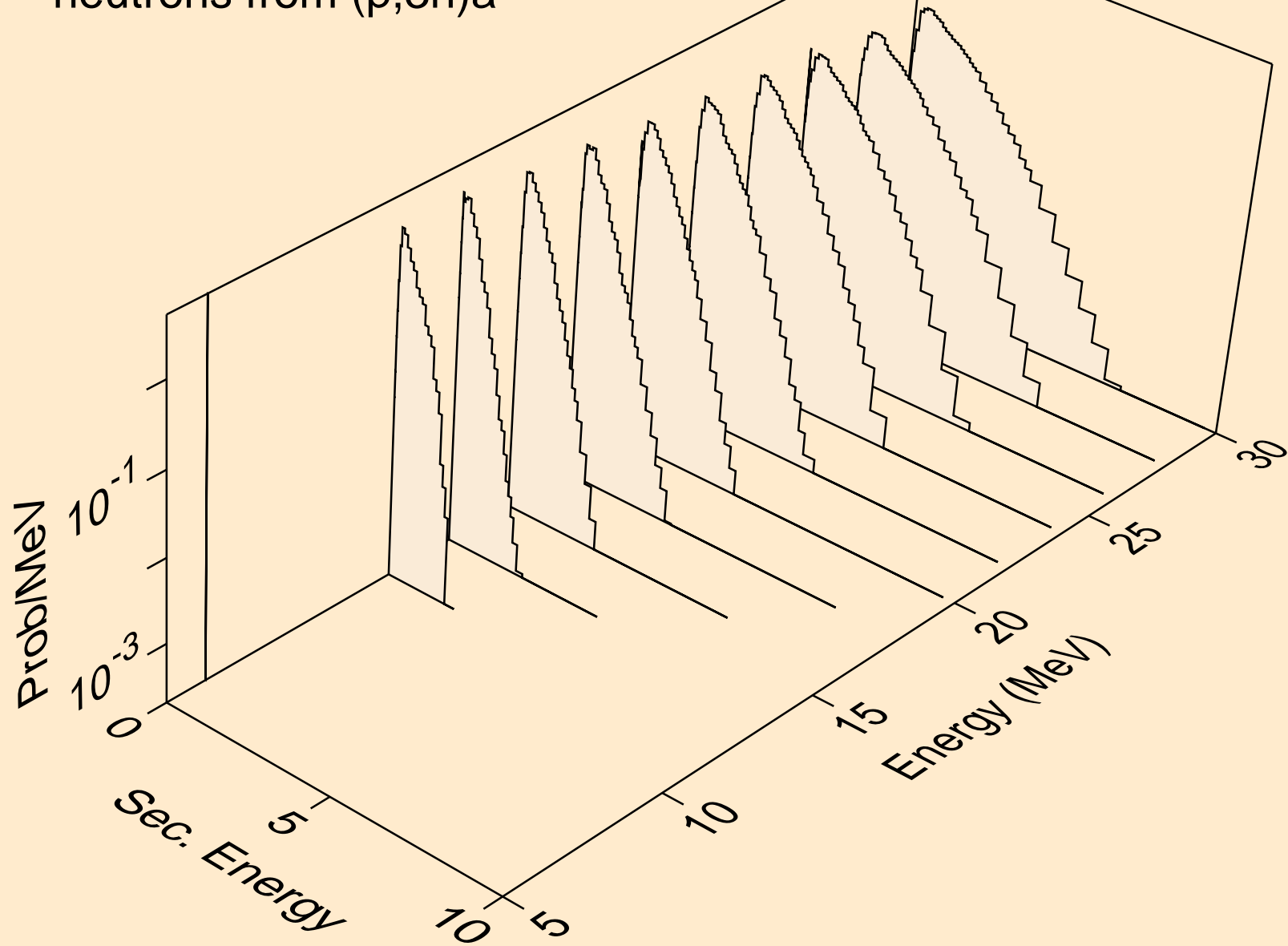
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)a



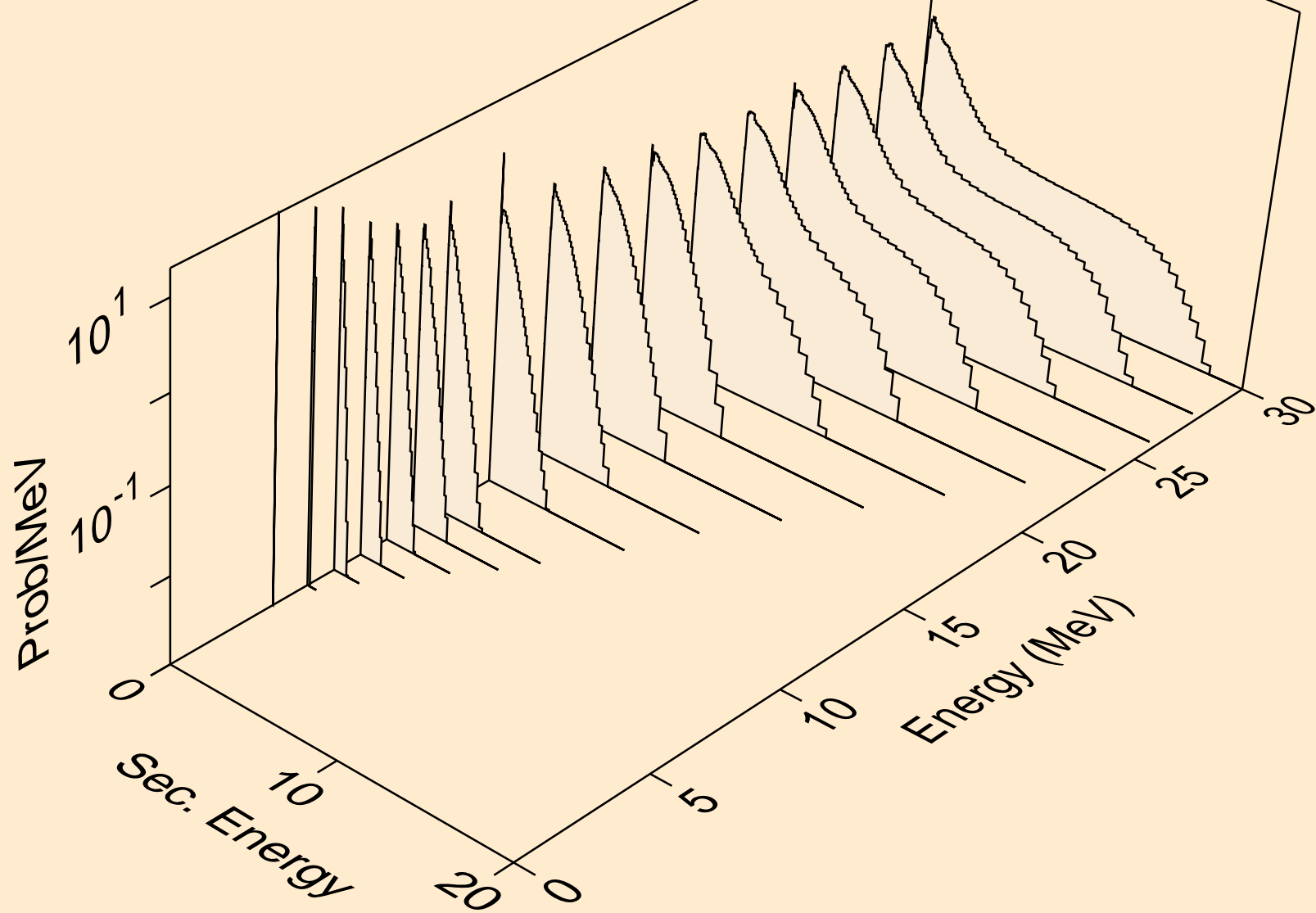
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neutrons from (p,2n)a



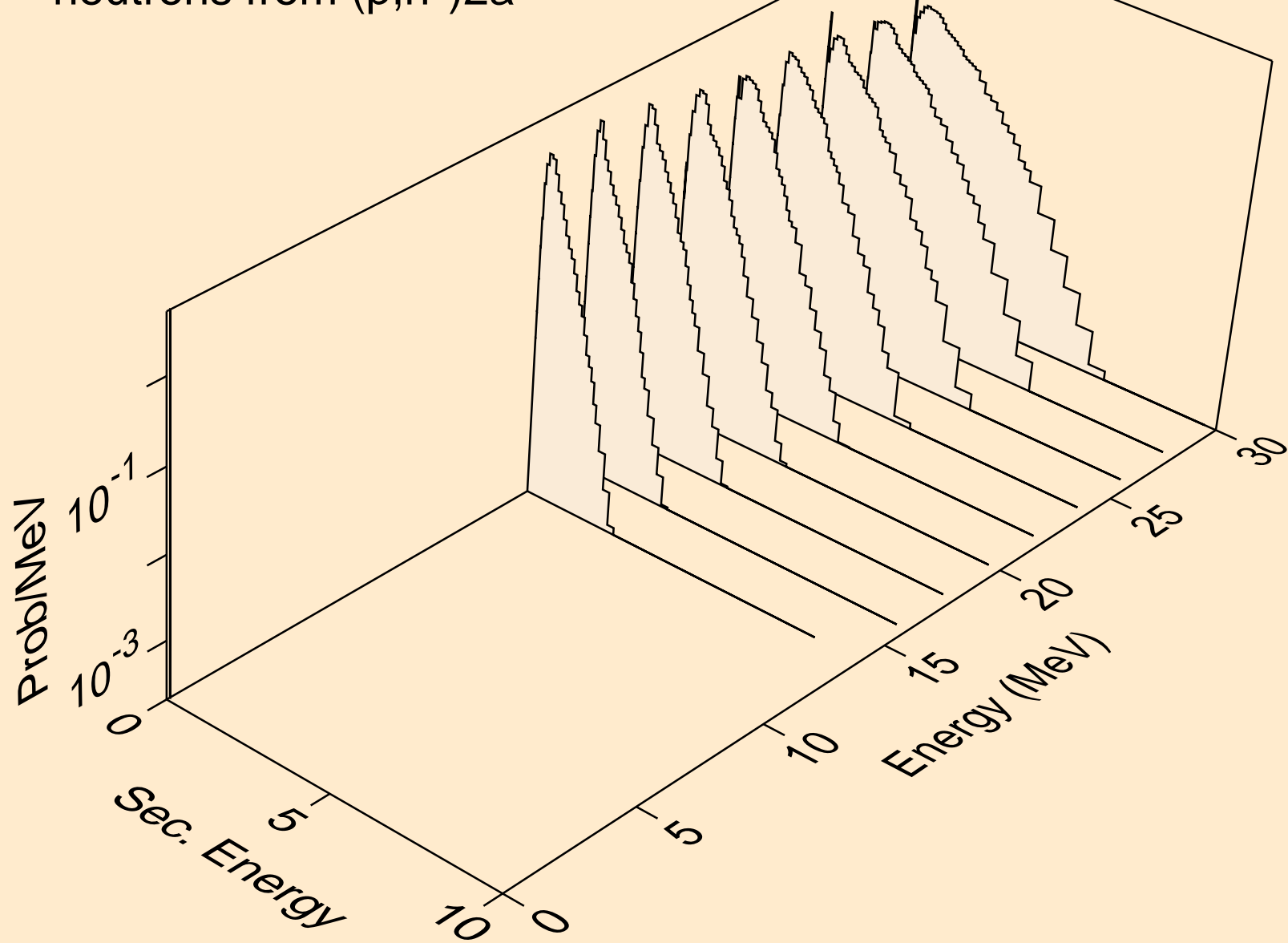
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neutrons from (p,3n)a



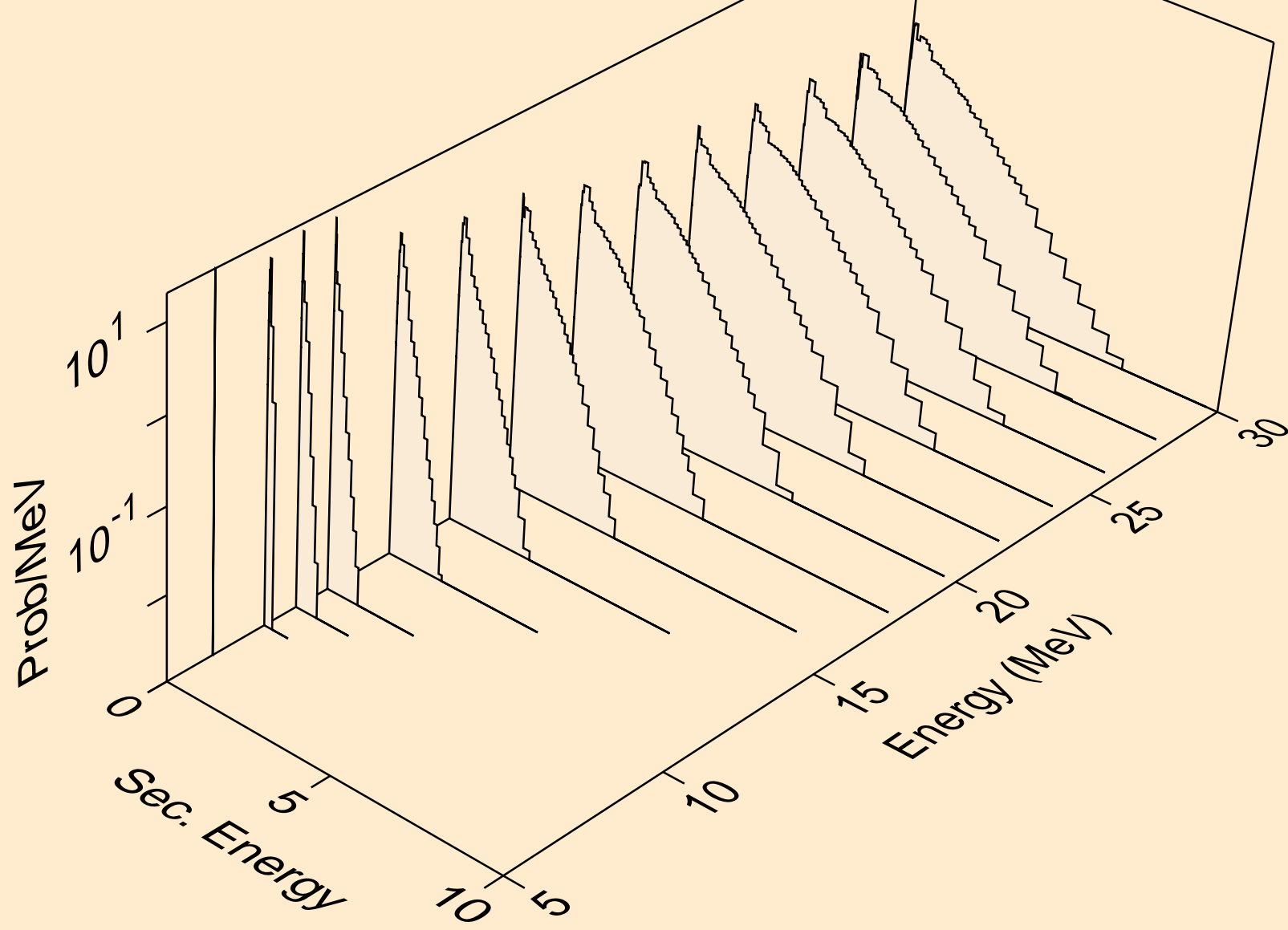
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)p



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)2a

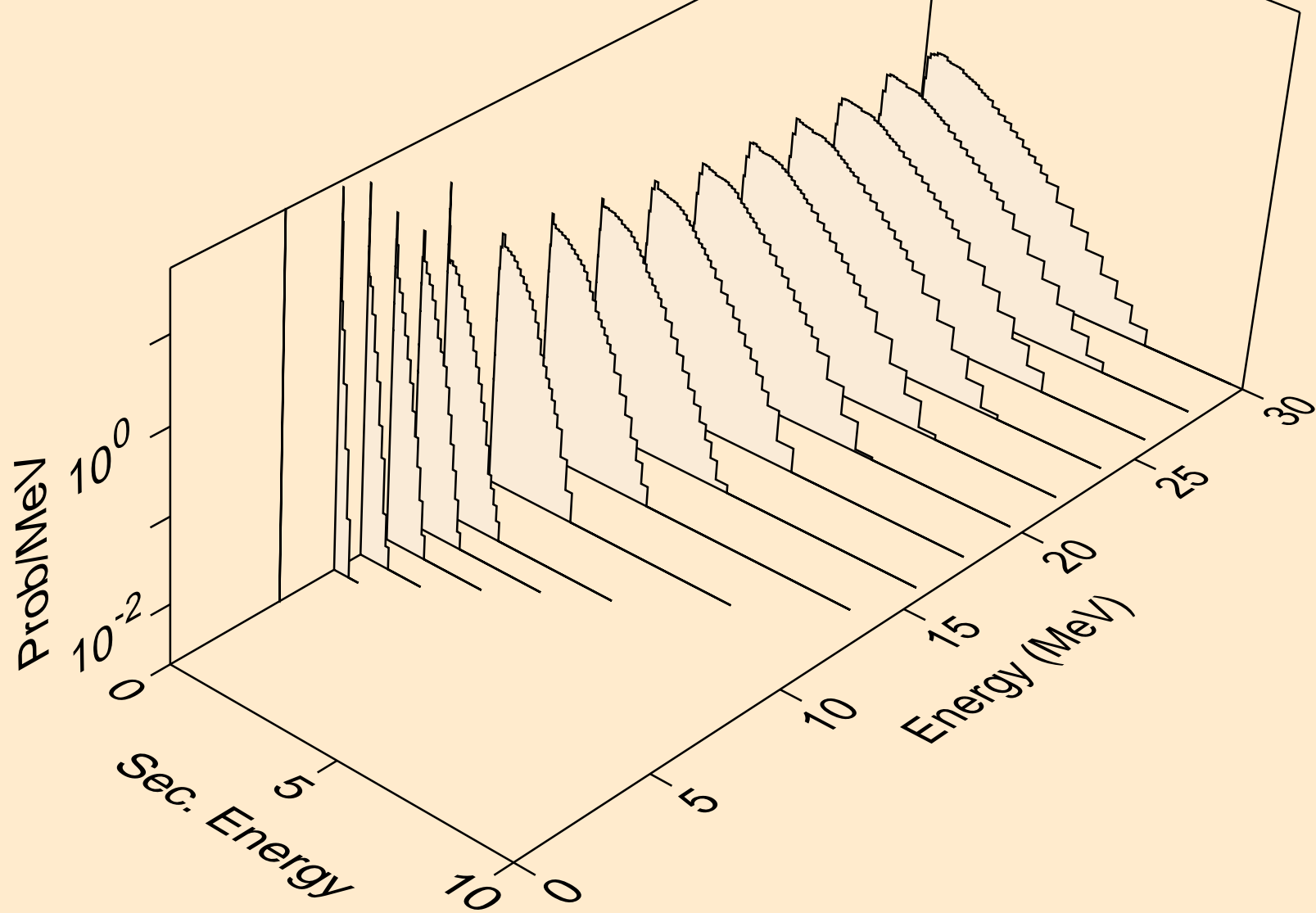


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neutrons from (p,n\*)d

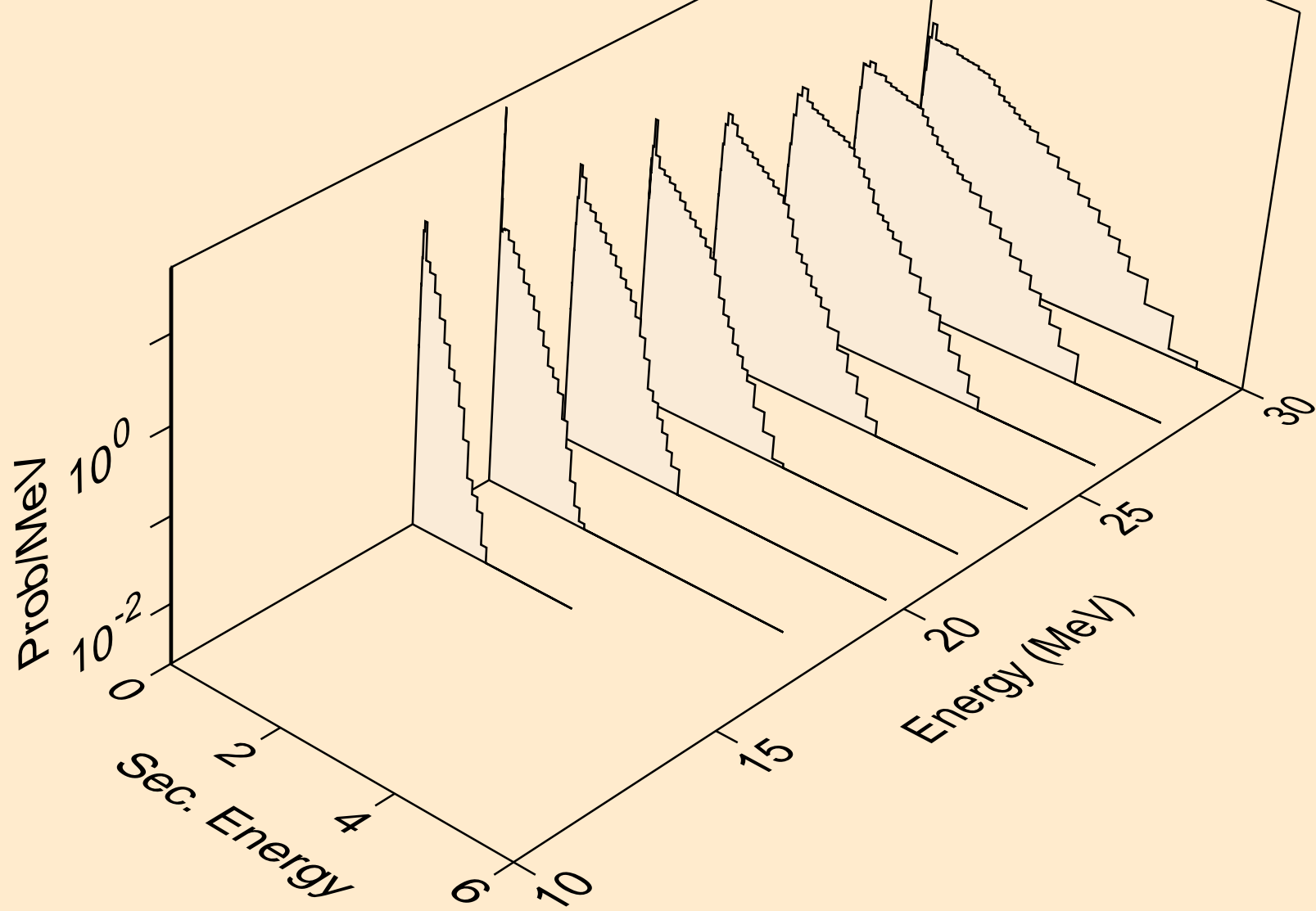




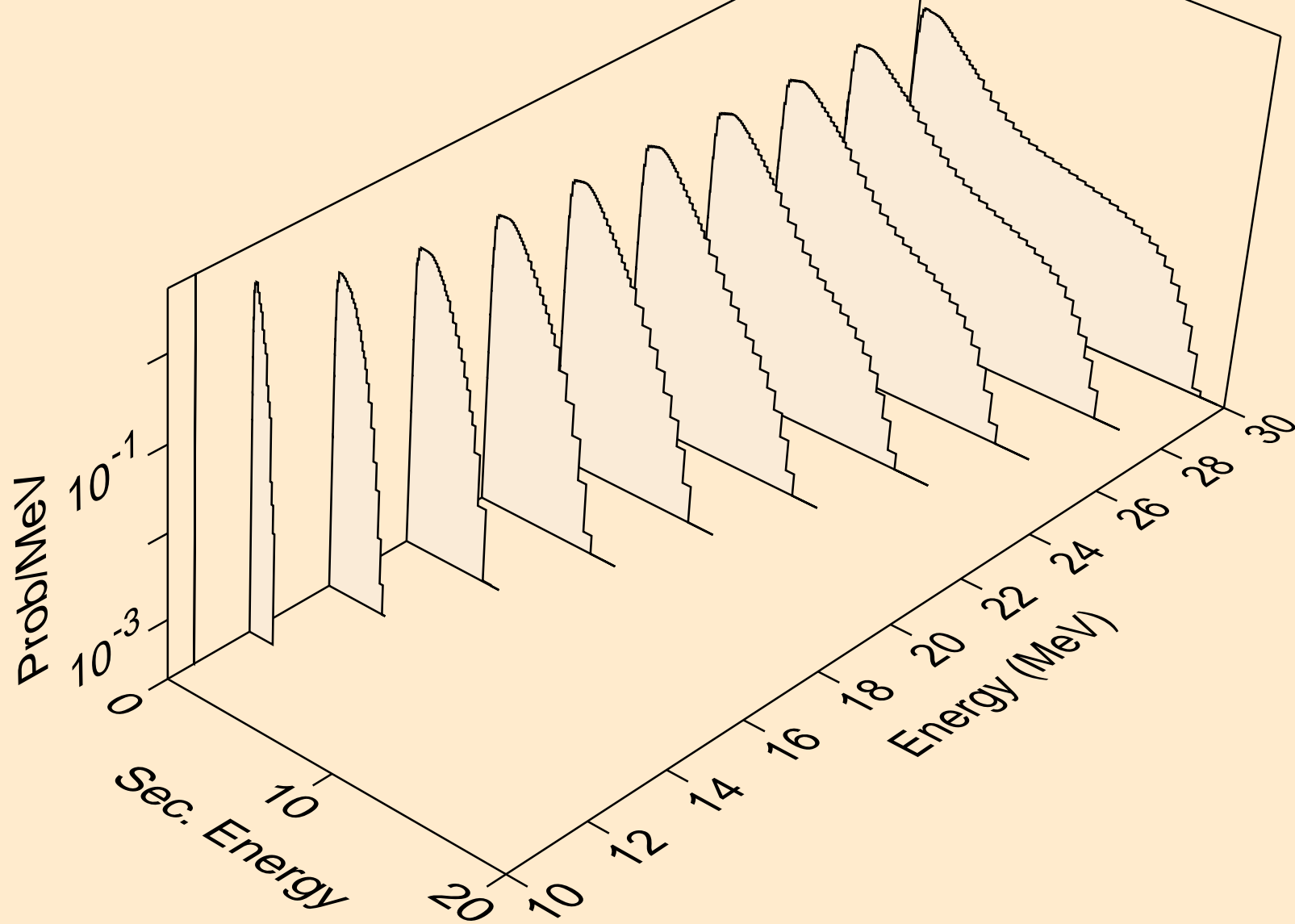
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neutrons from (p,n\*)t



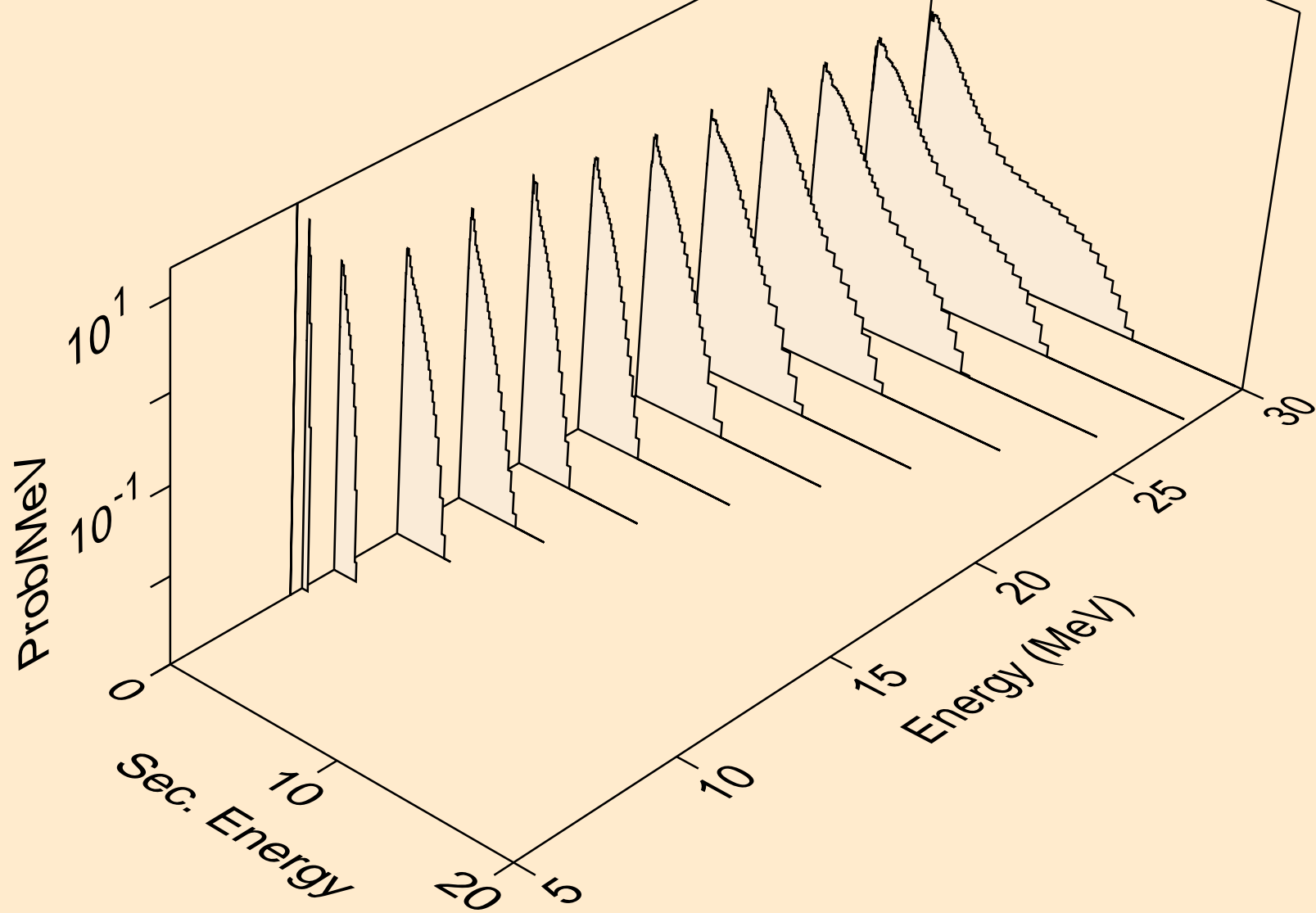
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



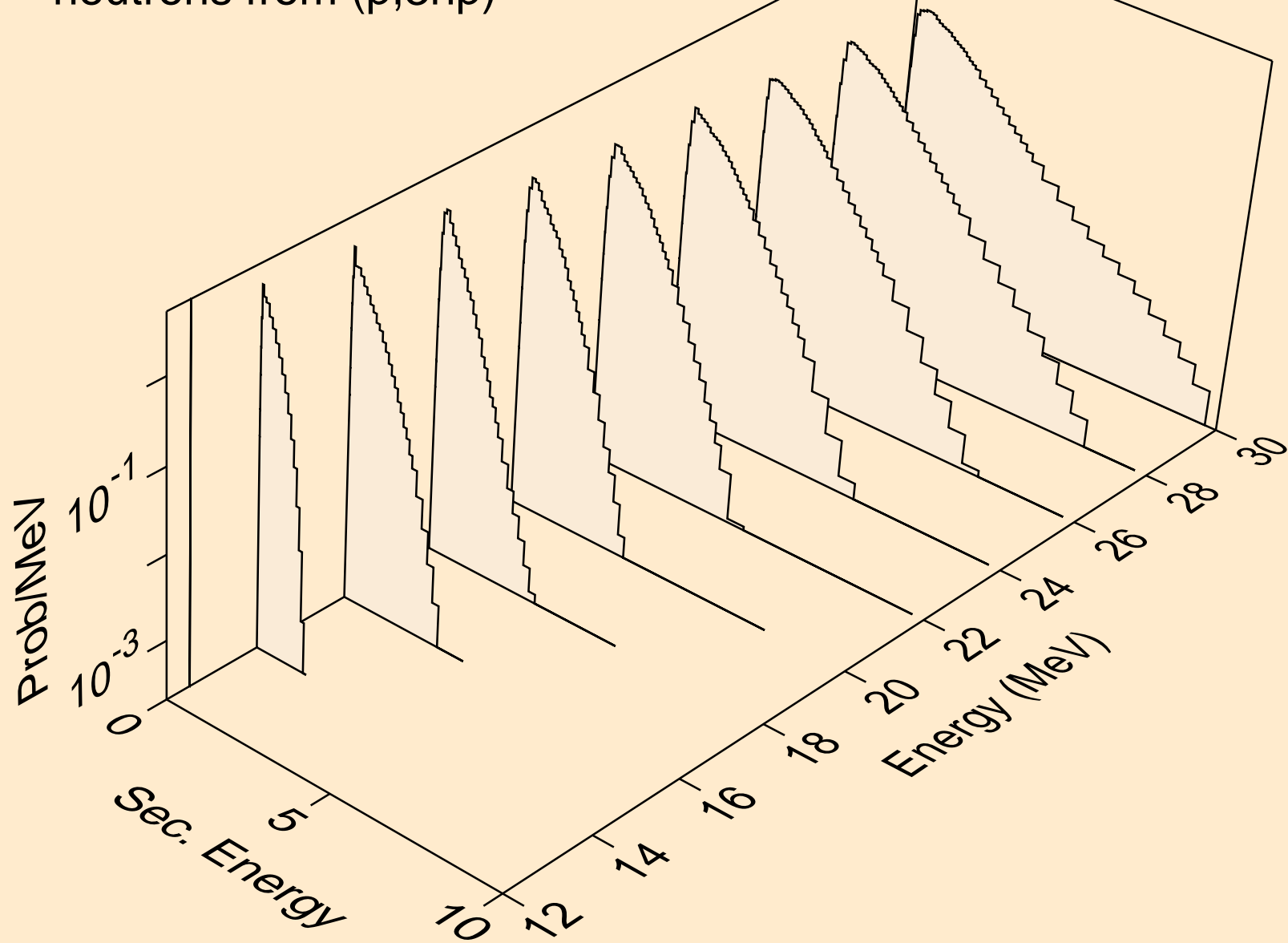
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,4n)



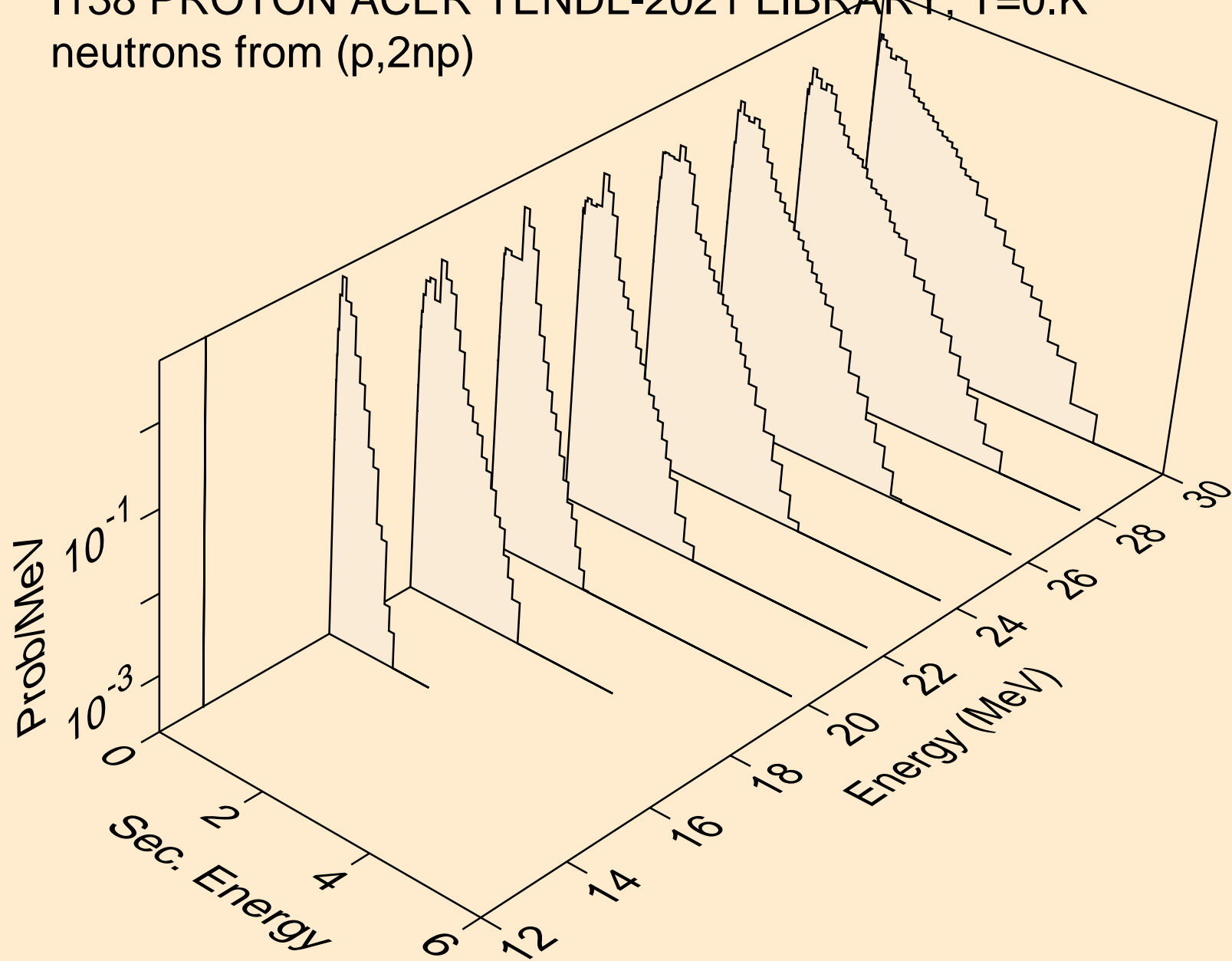
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2np)



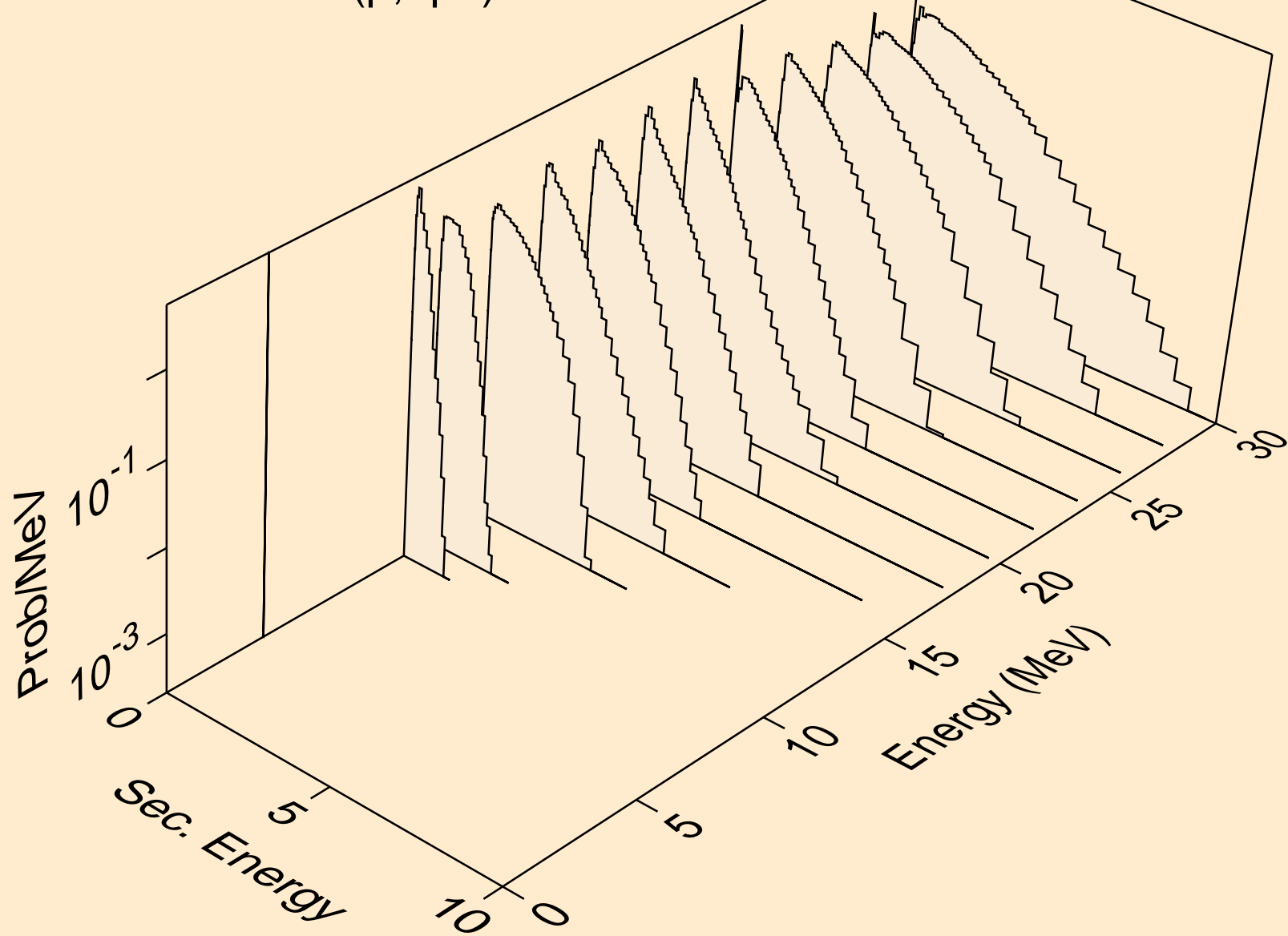
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3np)



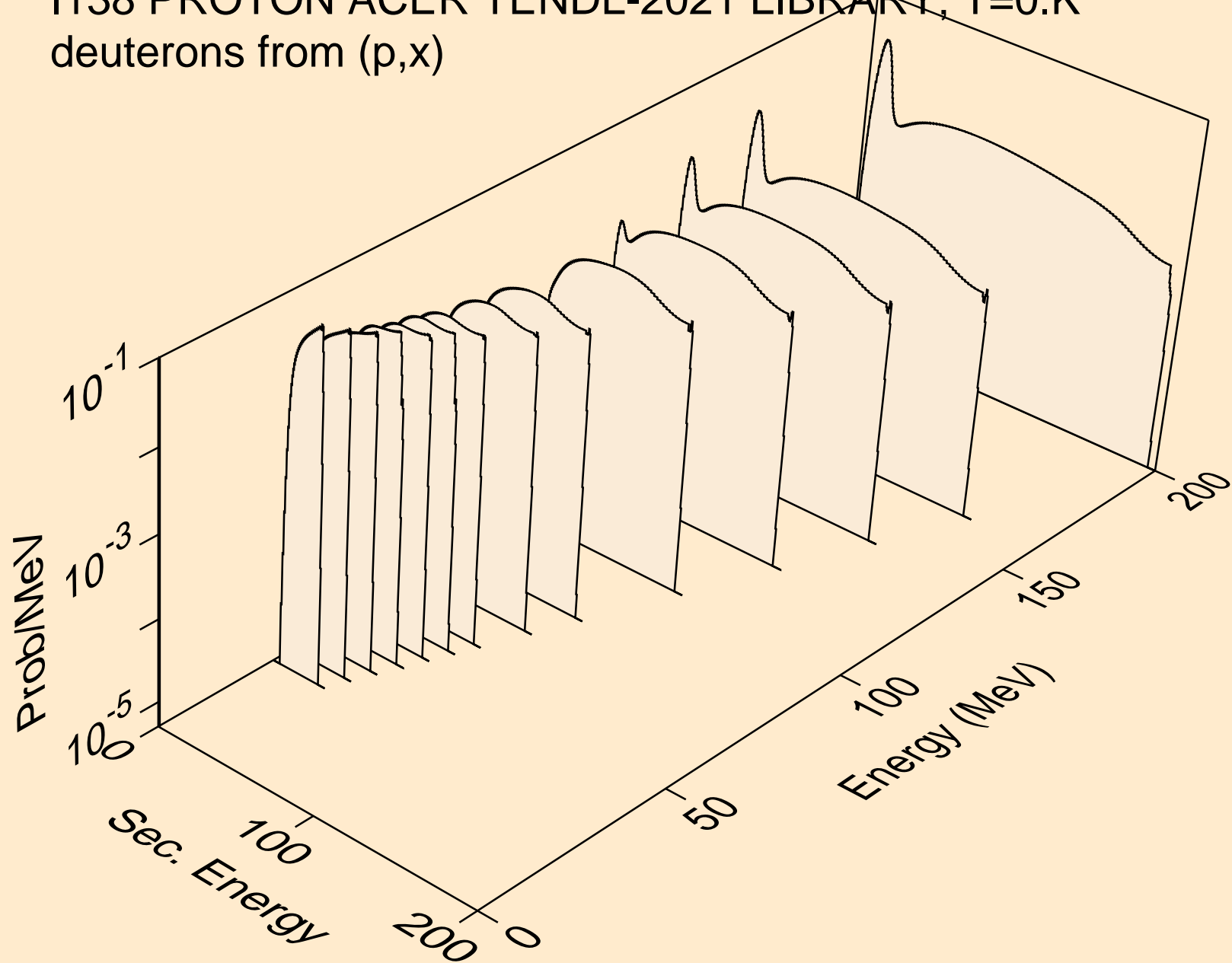
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2np)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,npa)

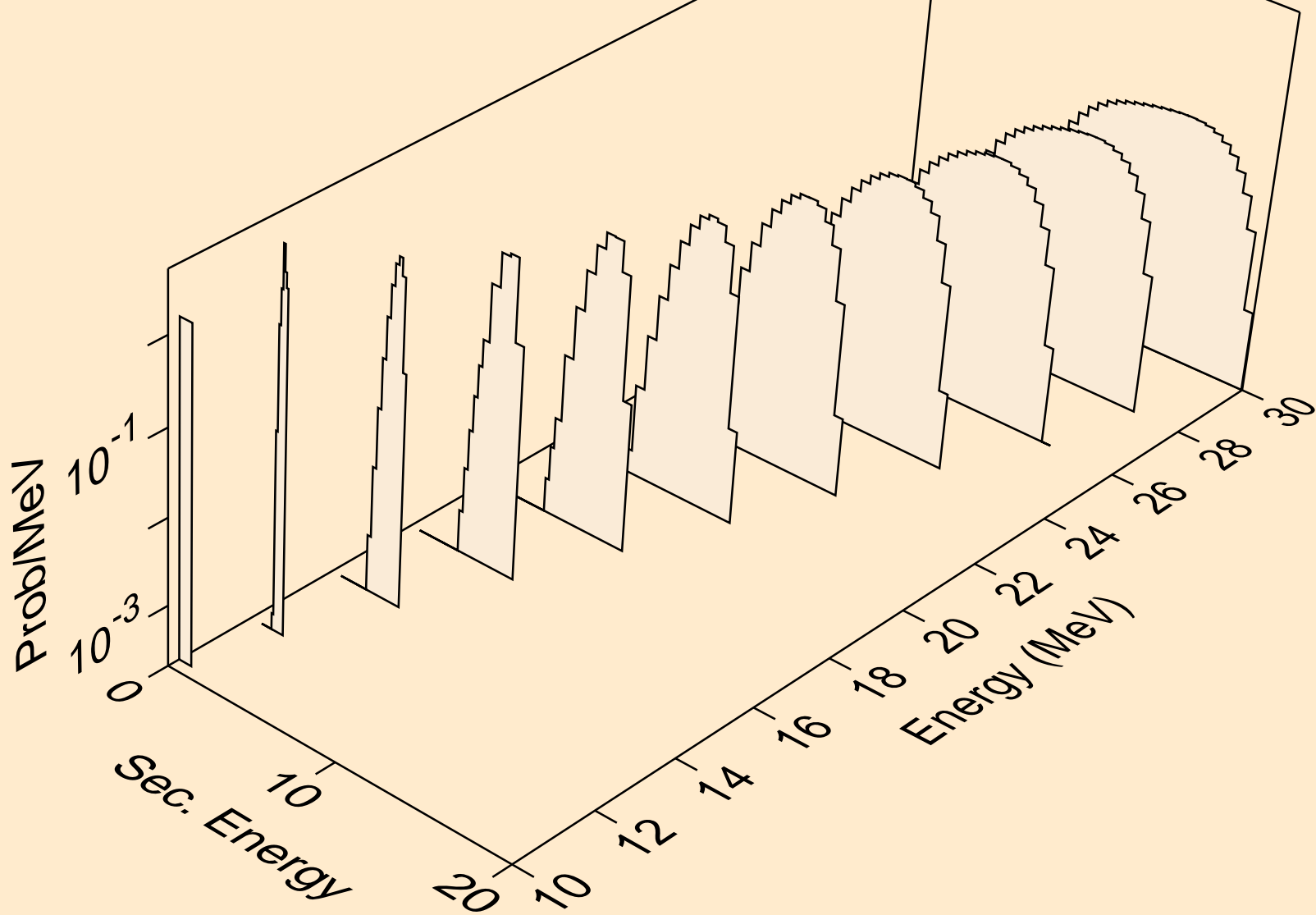


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,x)

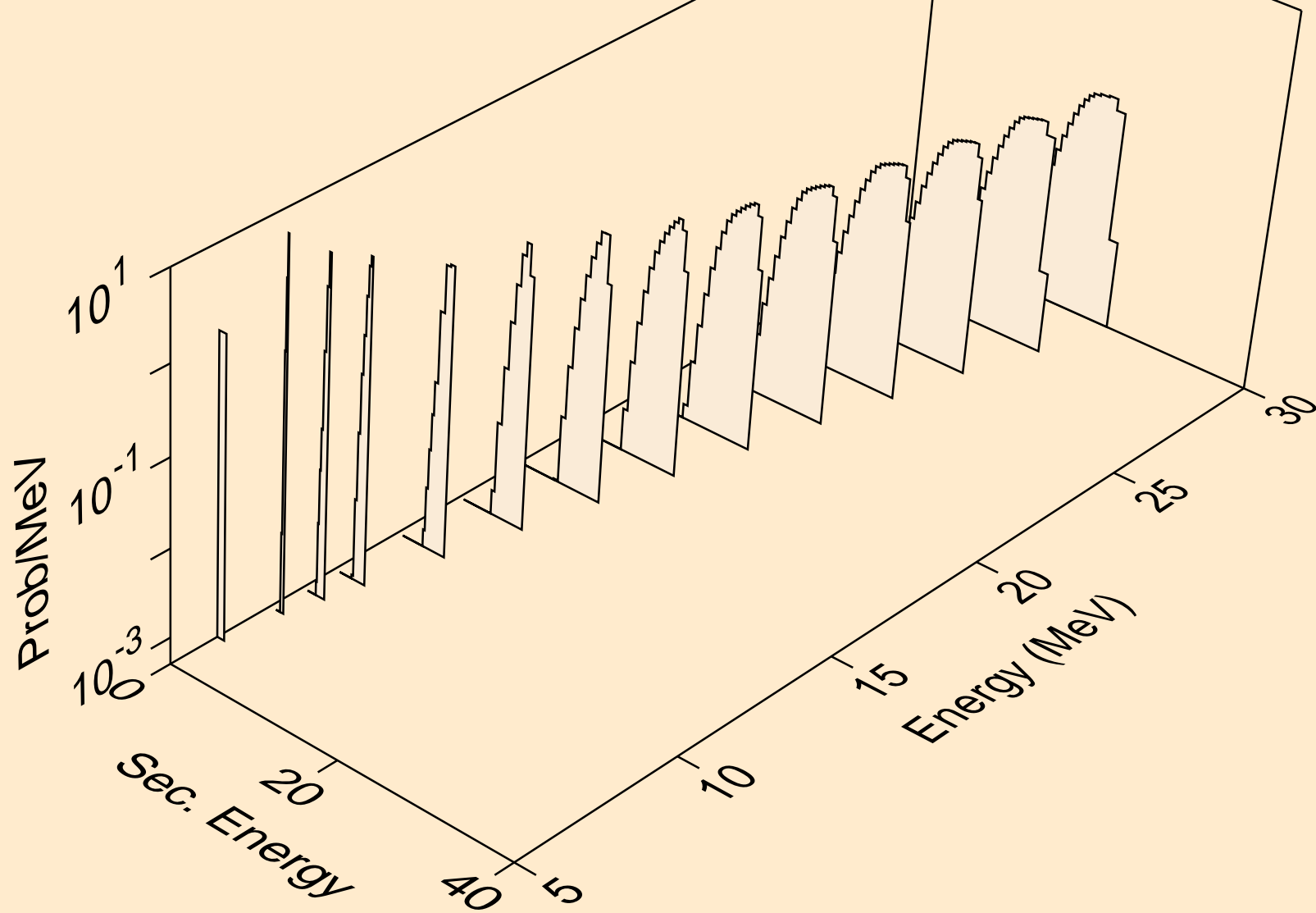




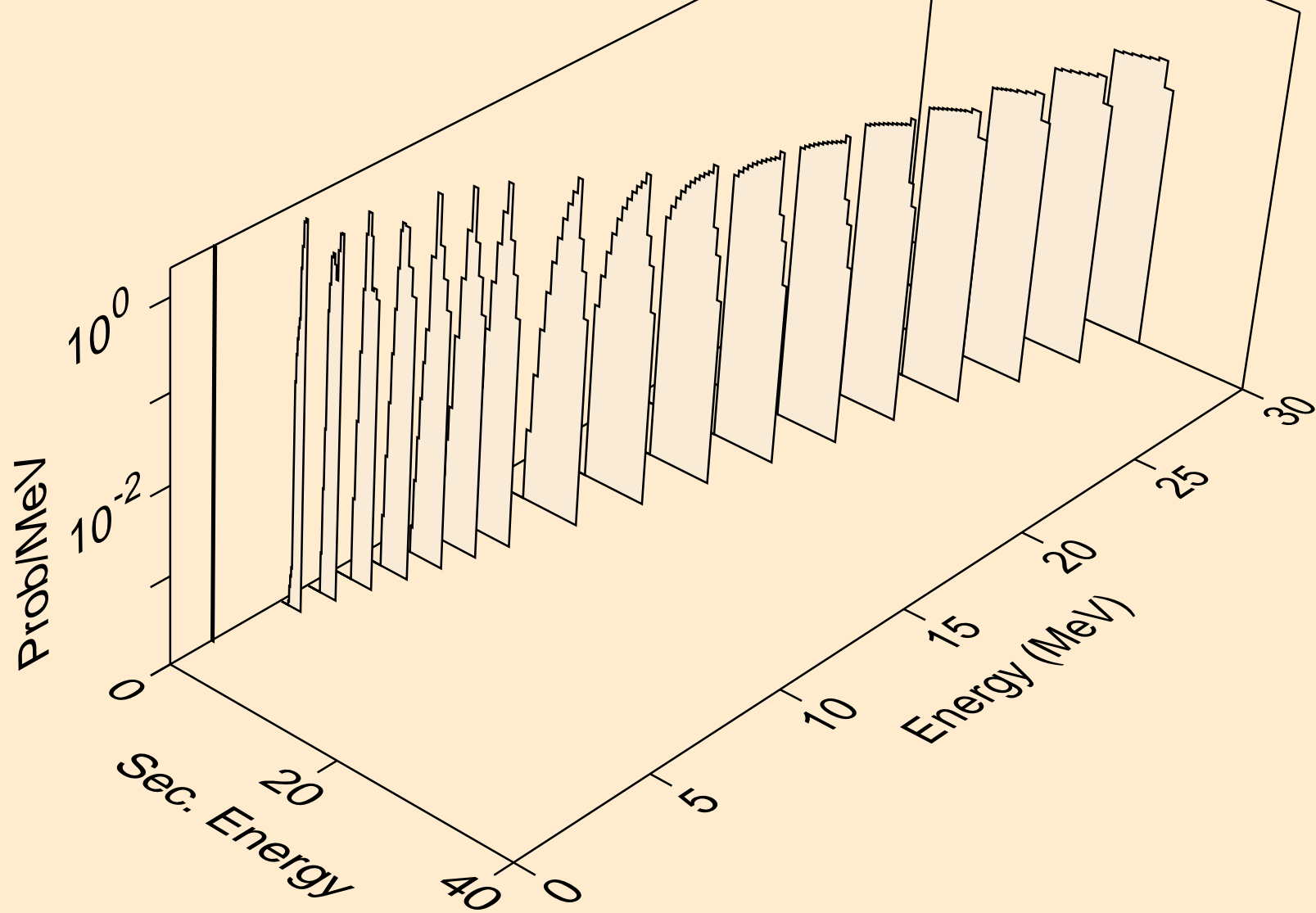
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,2nd)



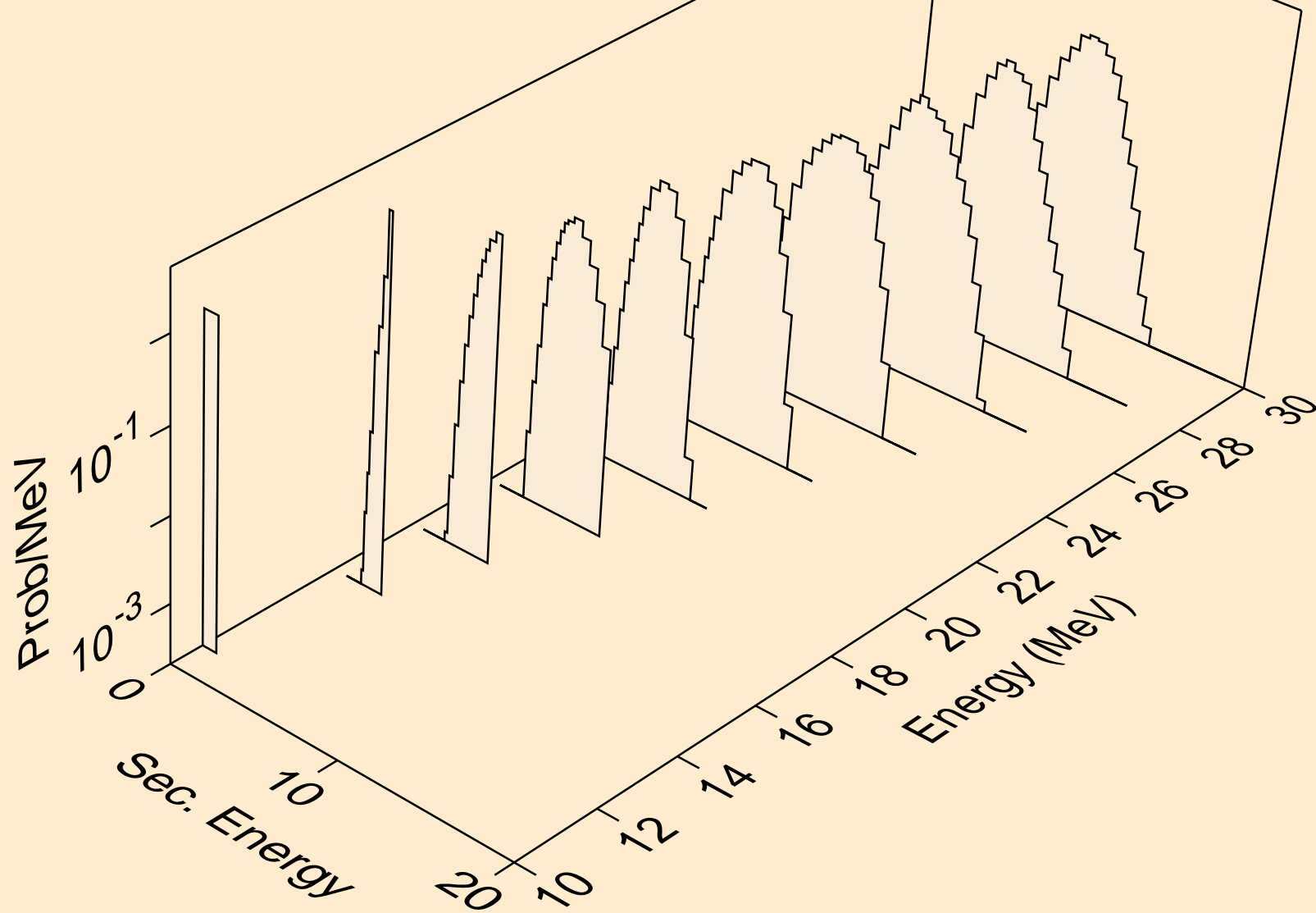
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,n\*)d



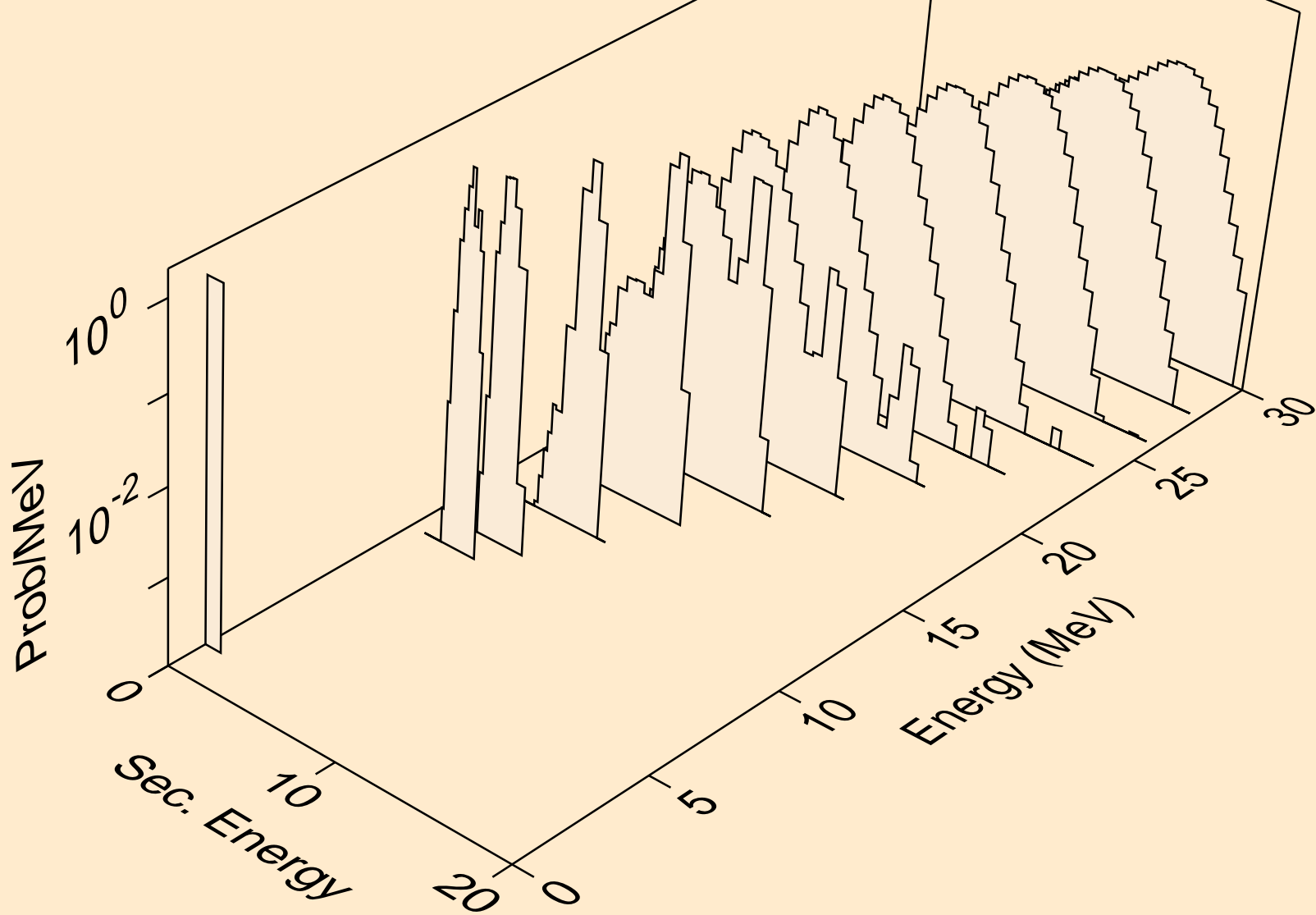
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,d)



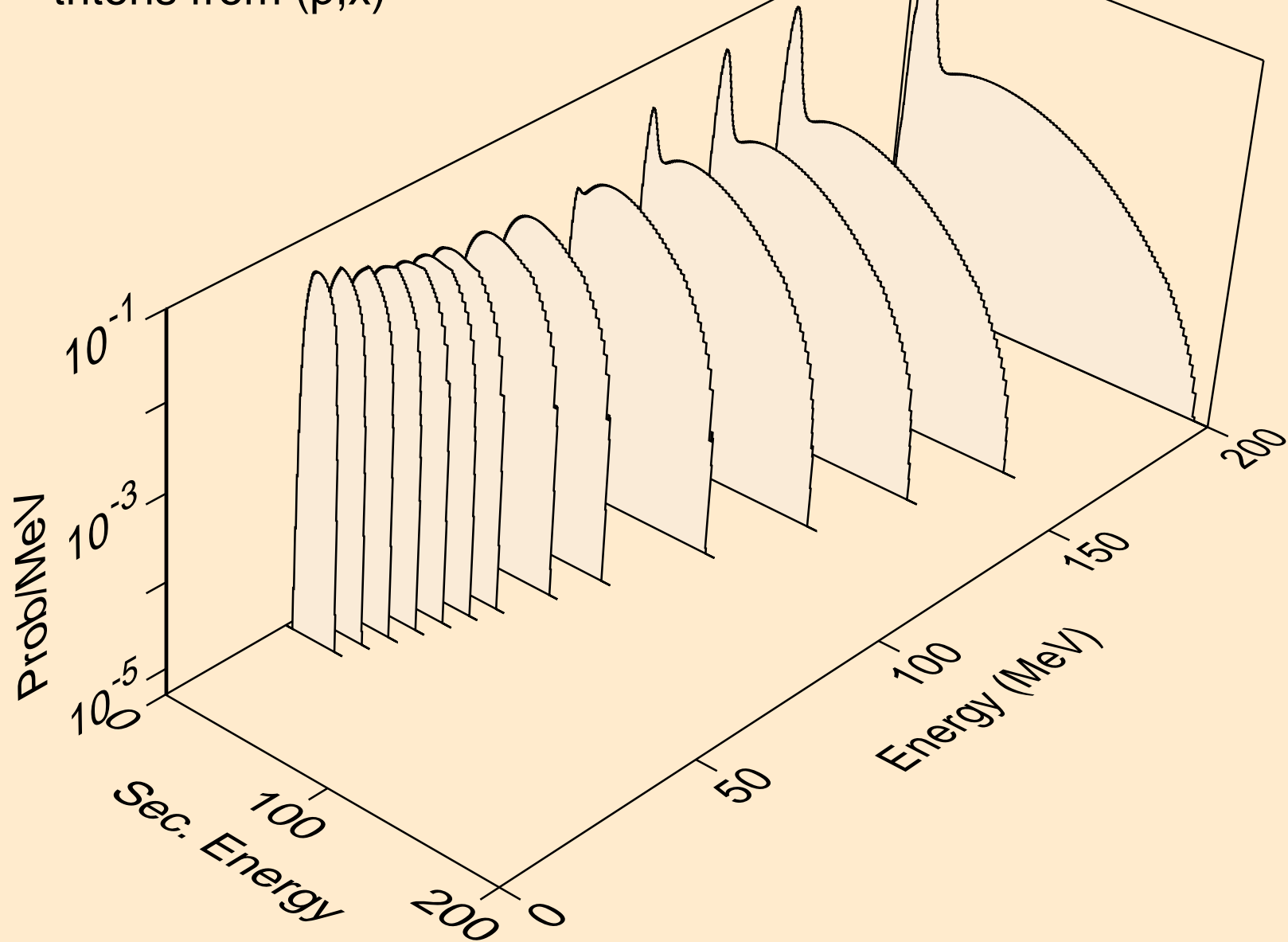
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,pd)



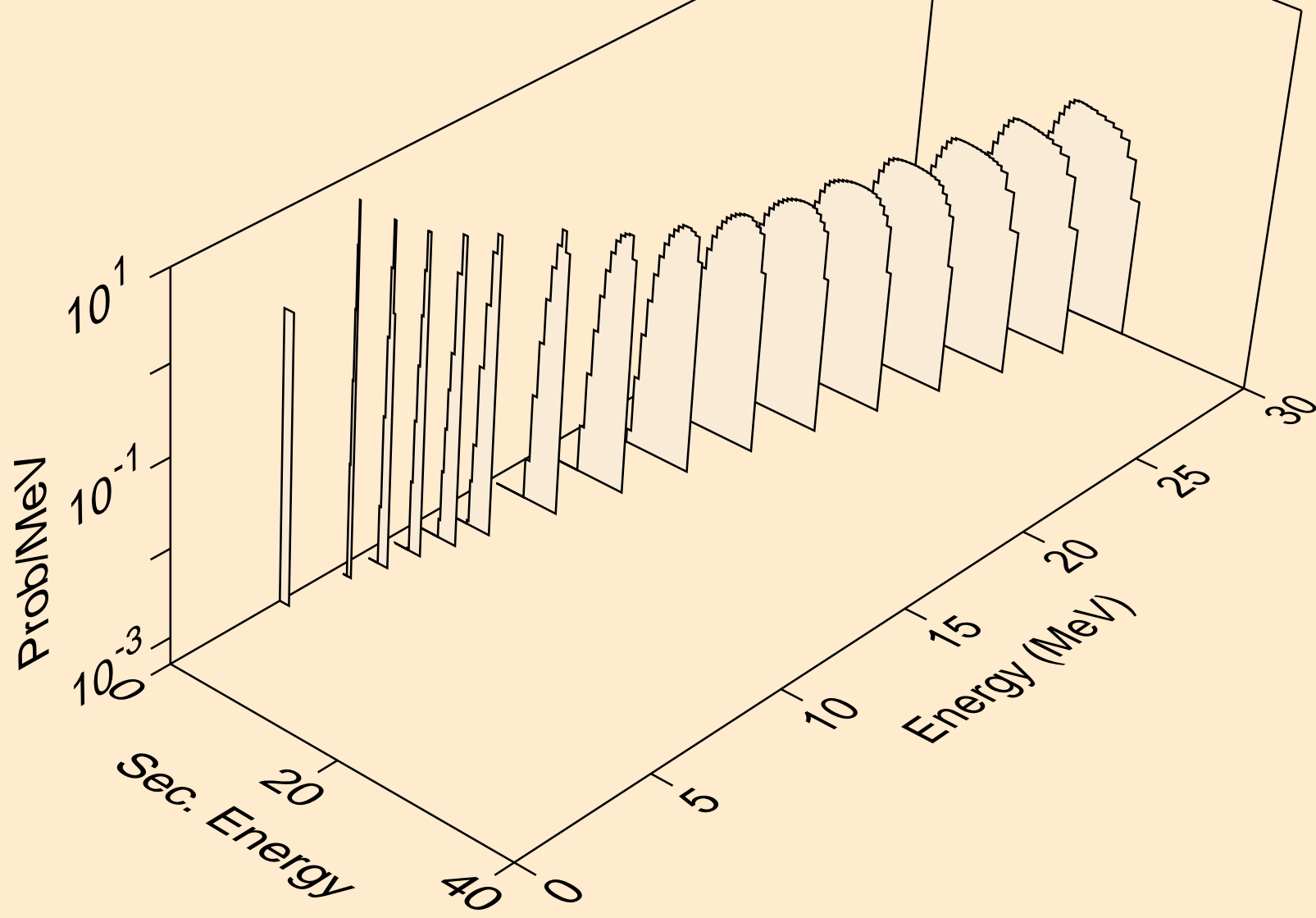
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,da)



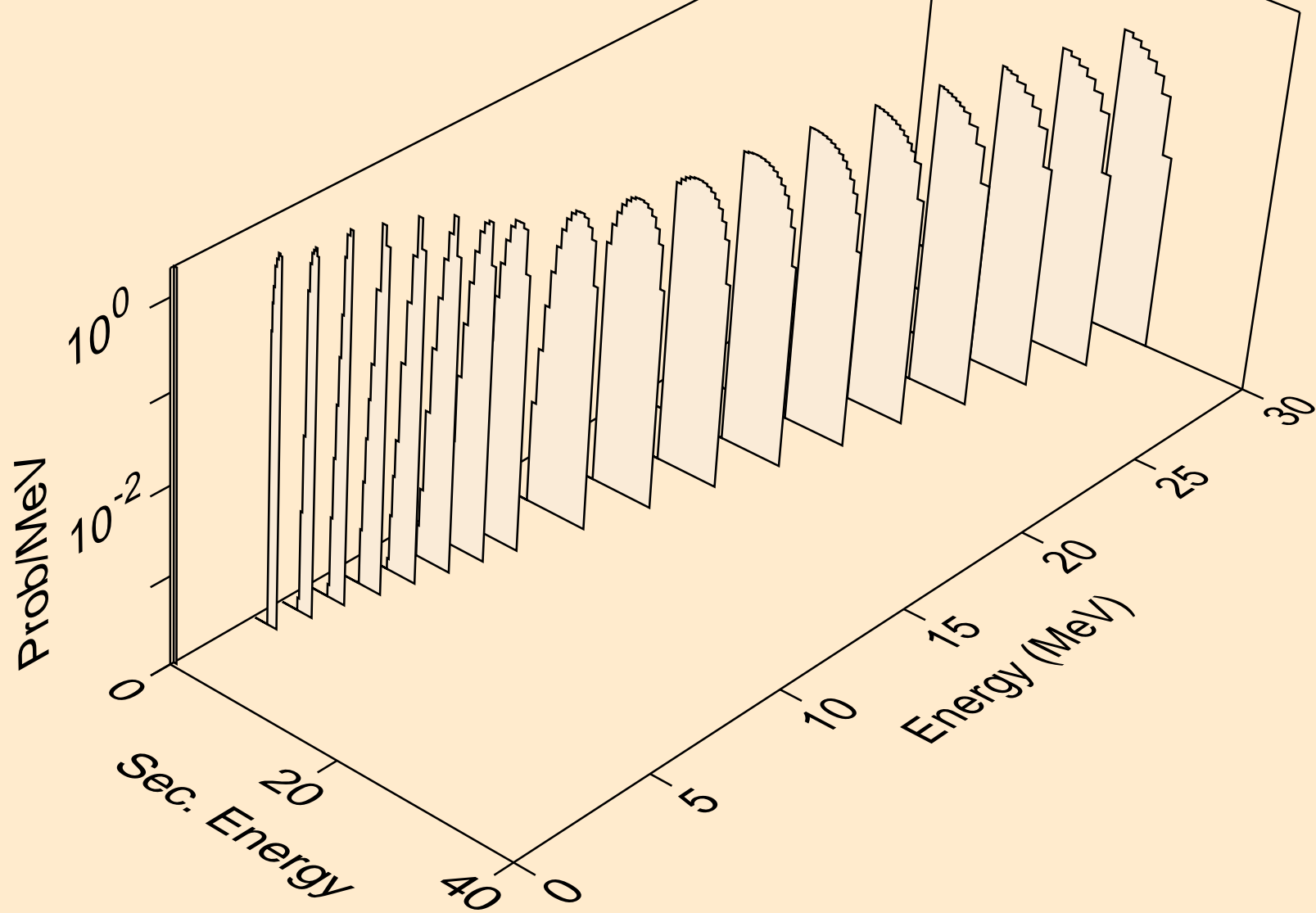
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,x)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,n\*)t

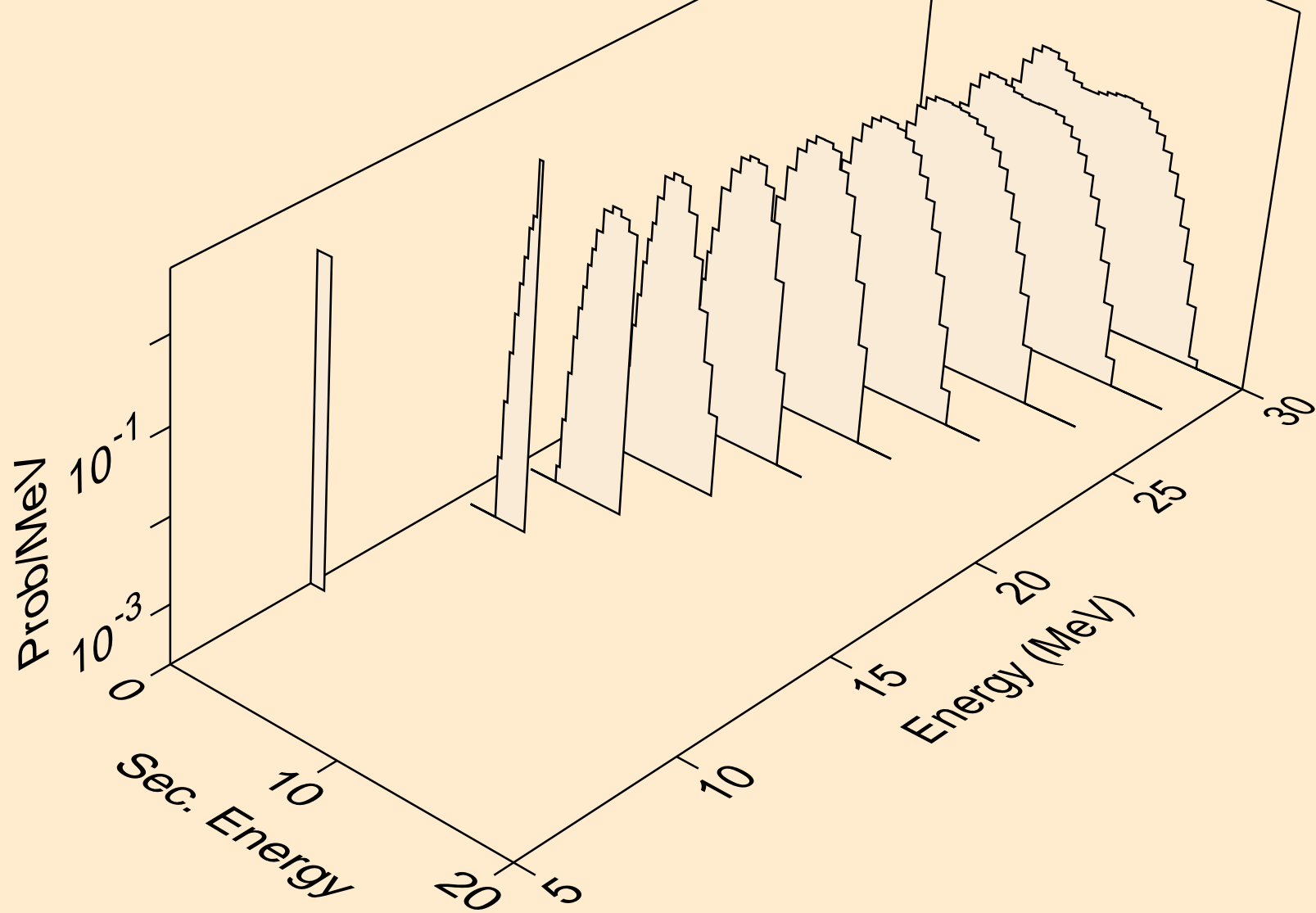


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,t)

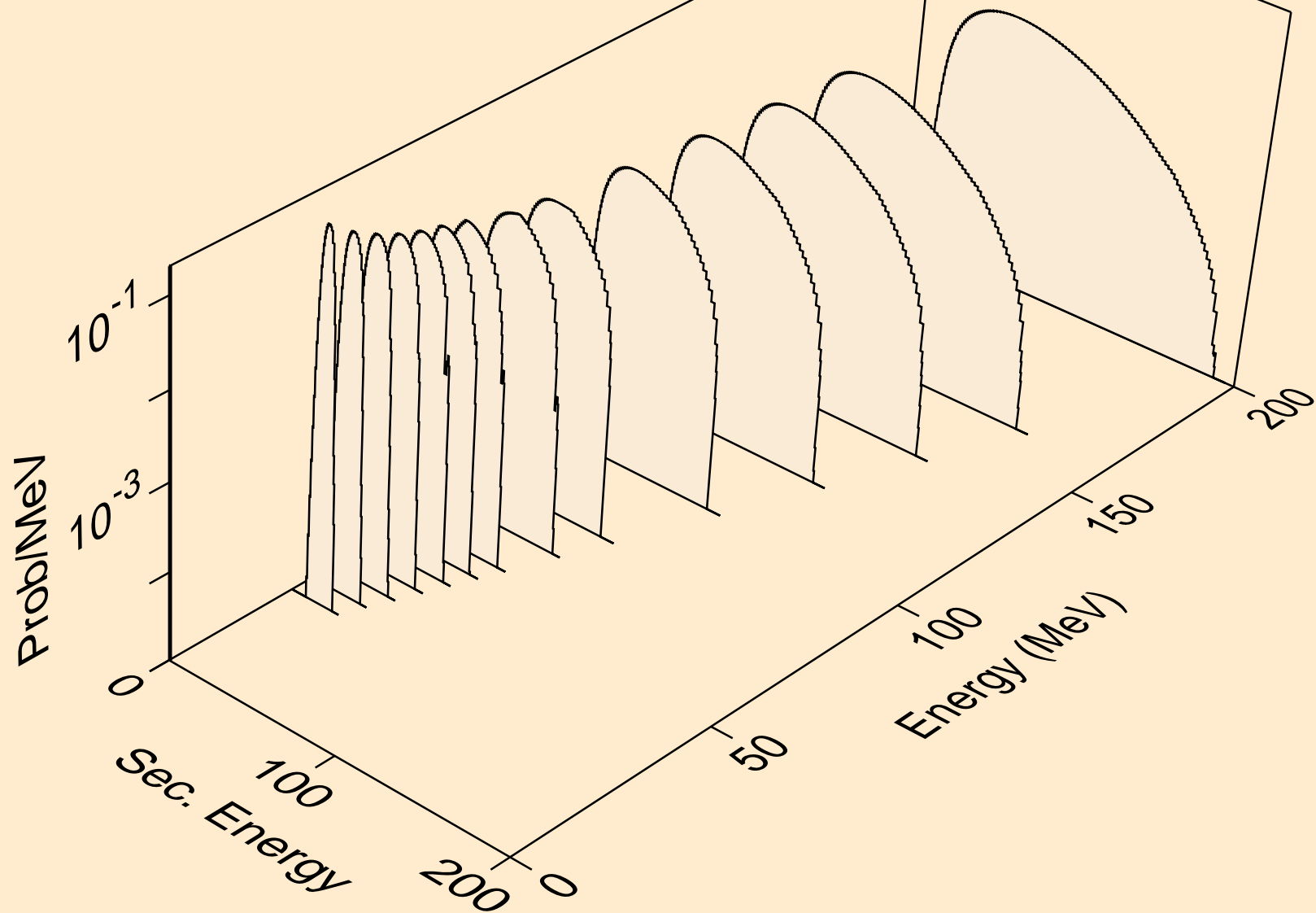




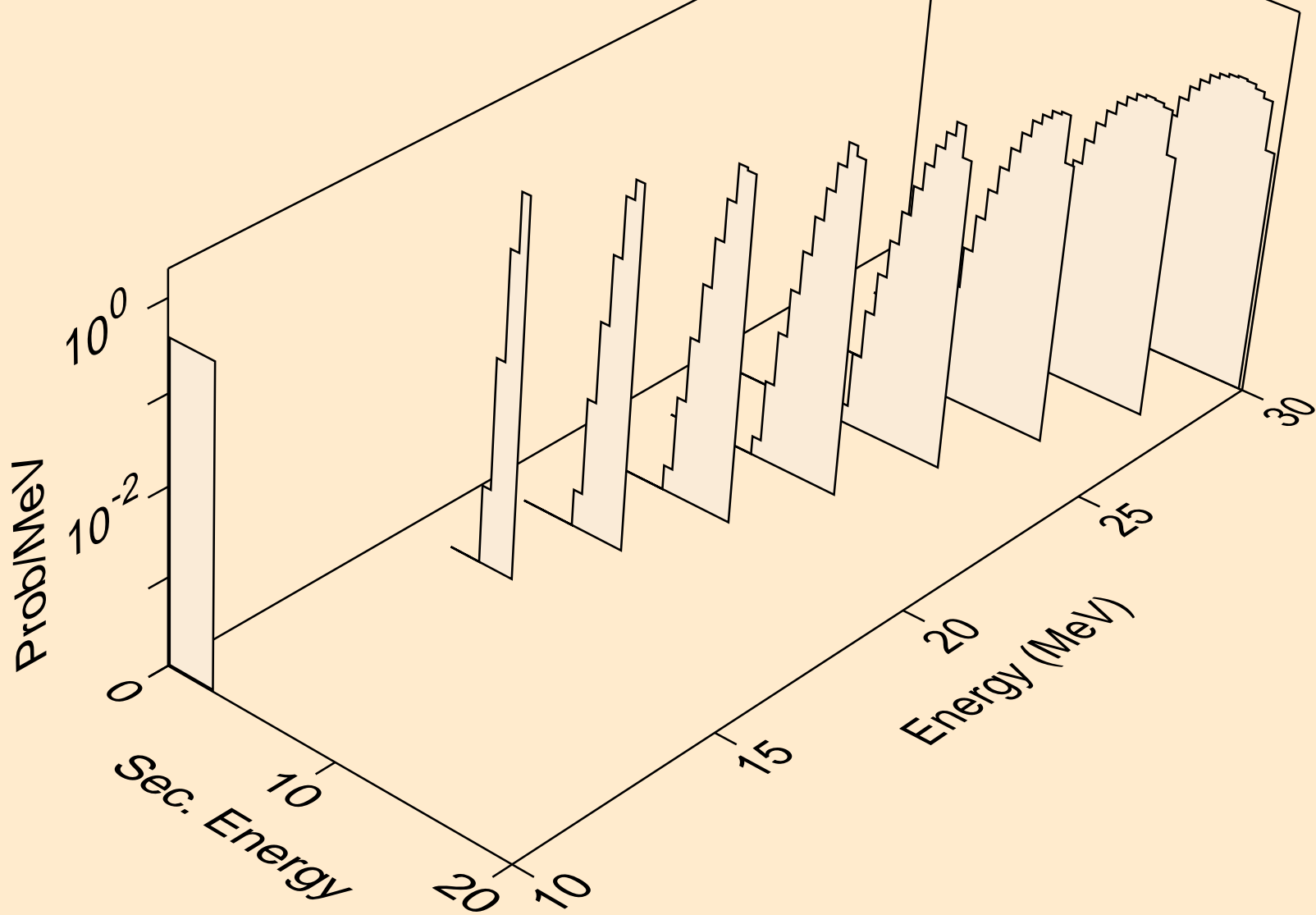
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,pt)



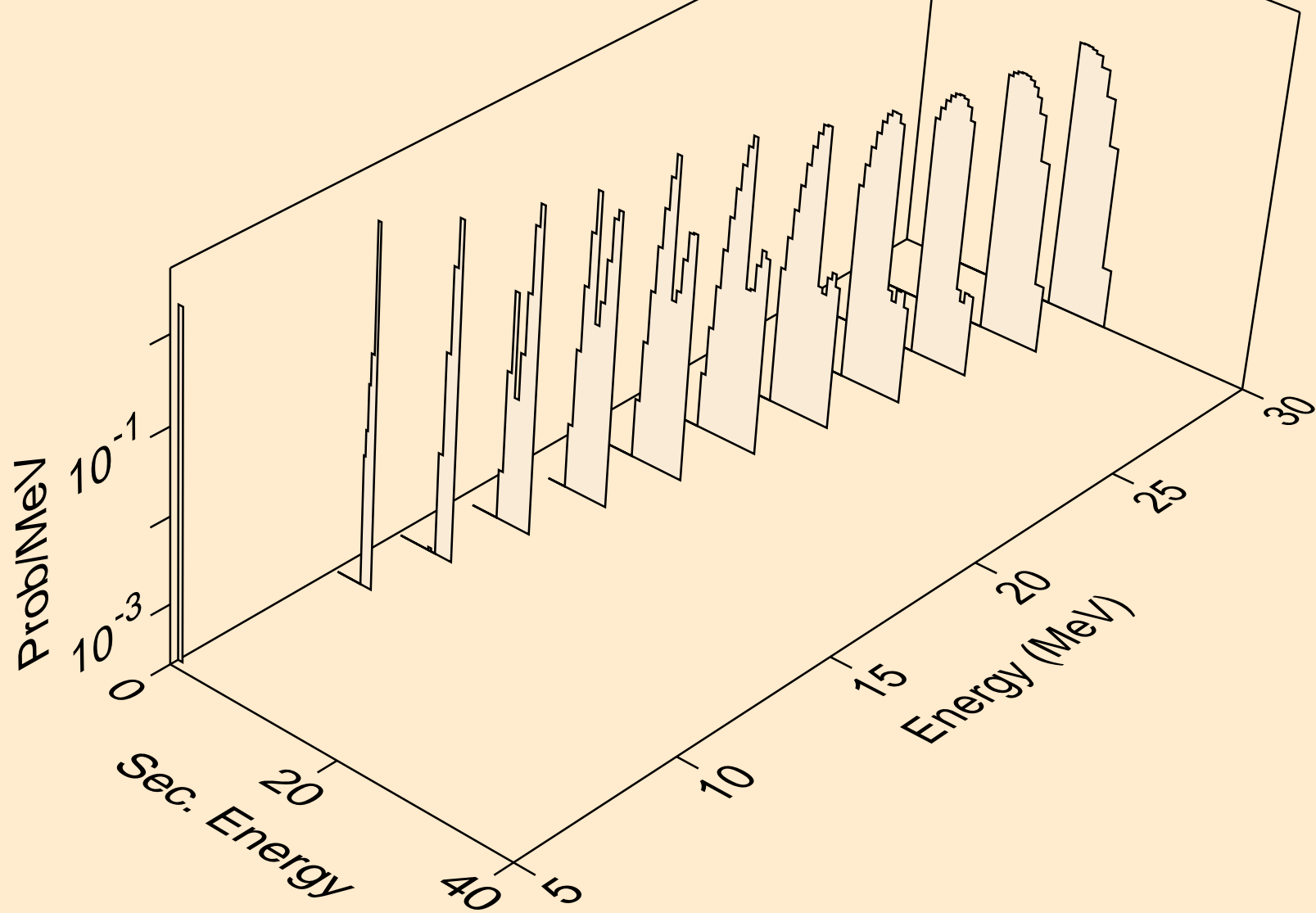
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,x)



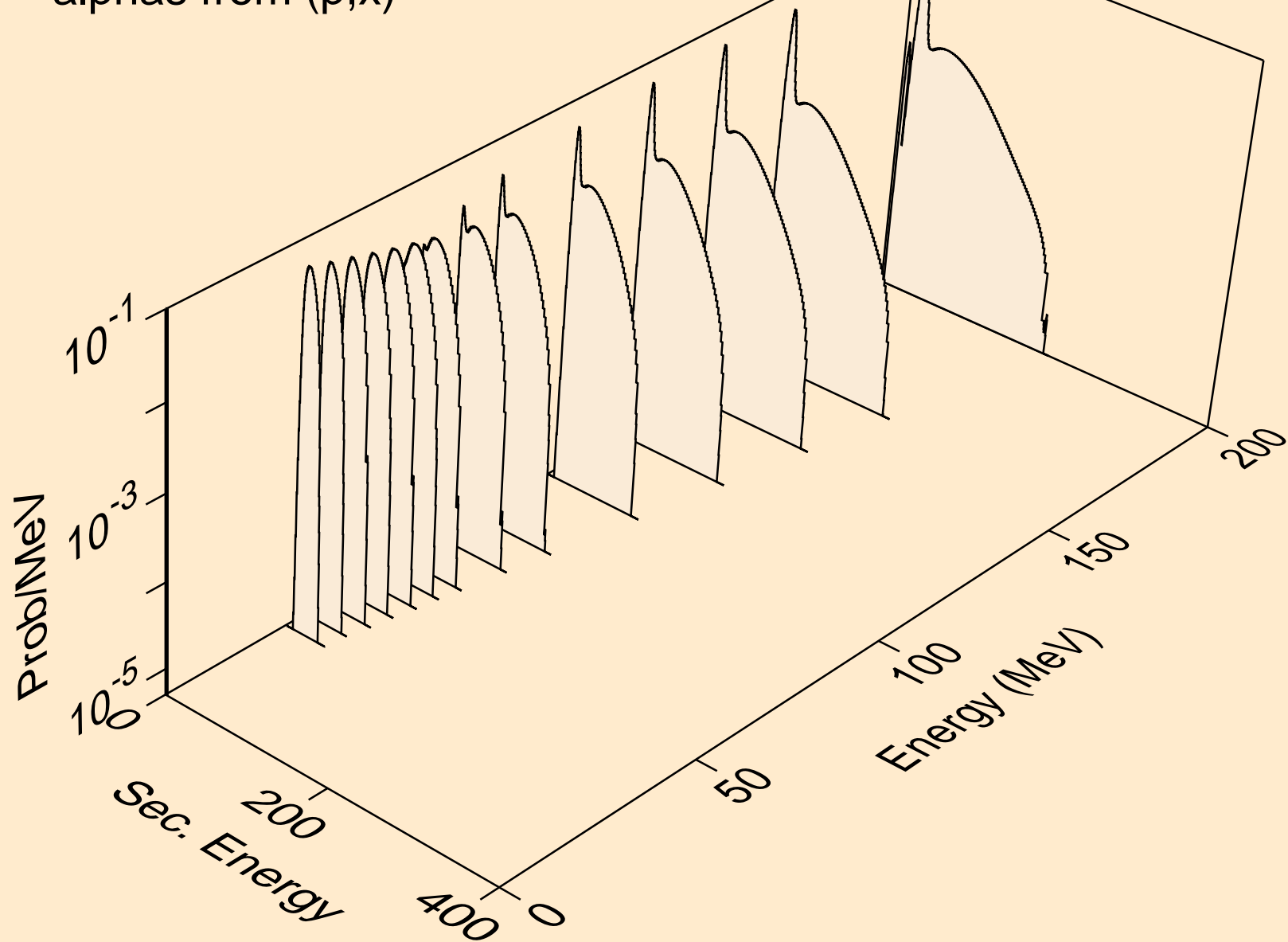
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,n\*)he3



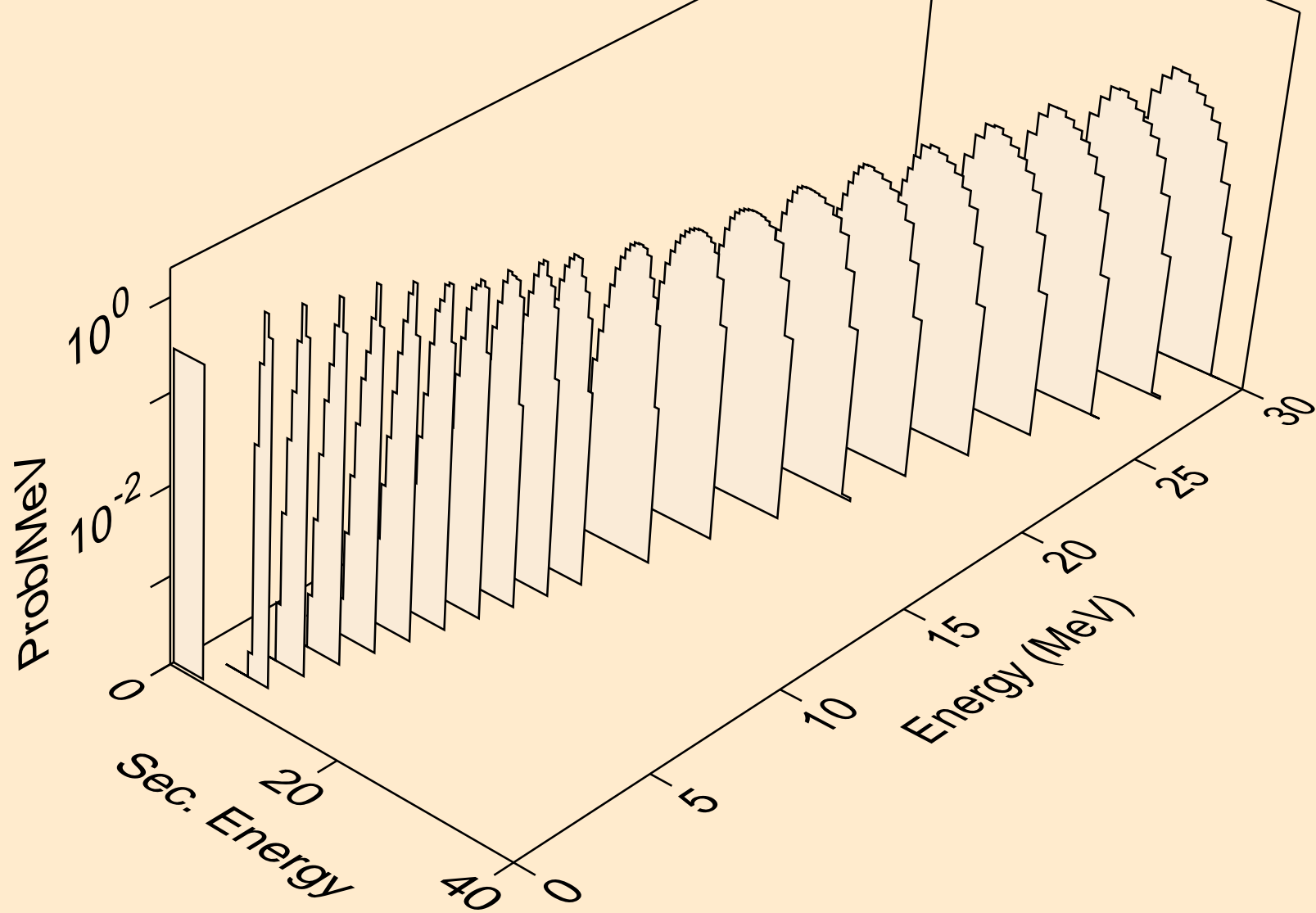
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,he3)



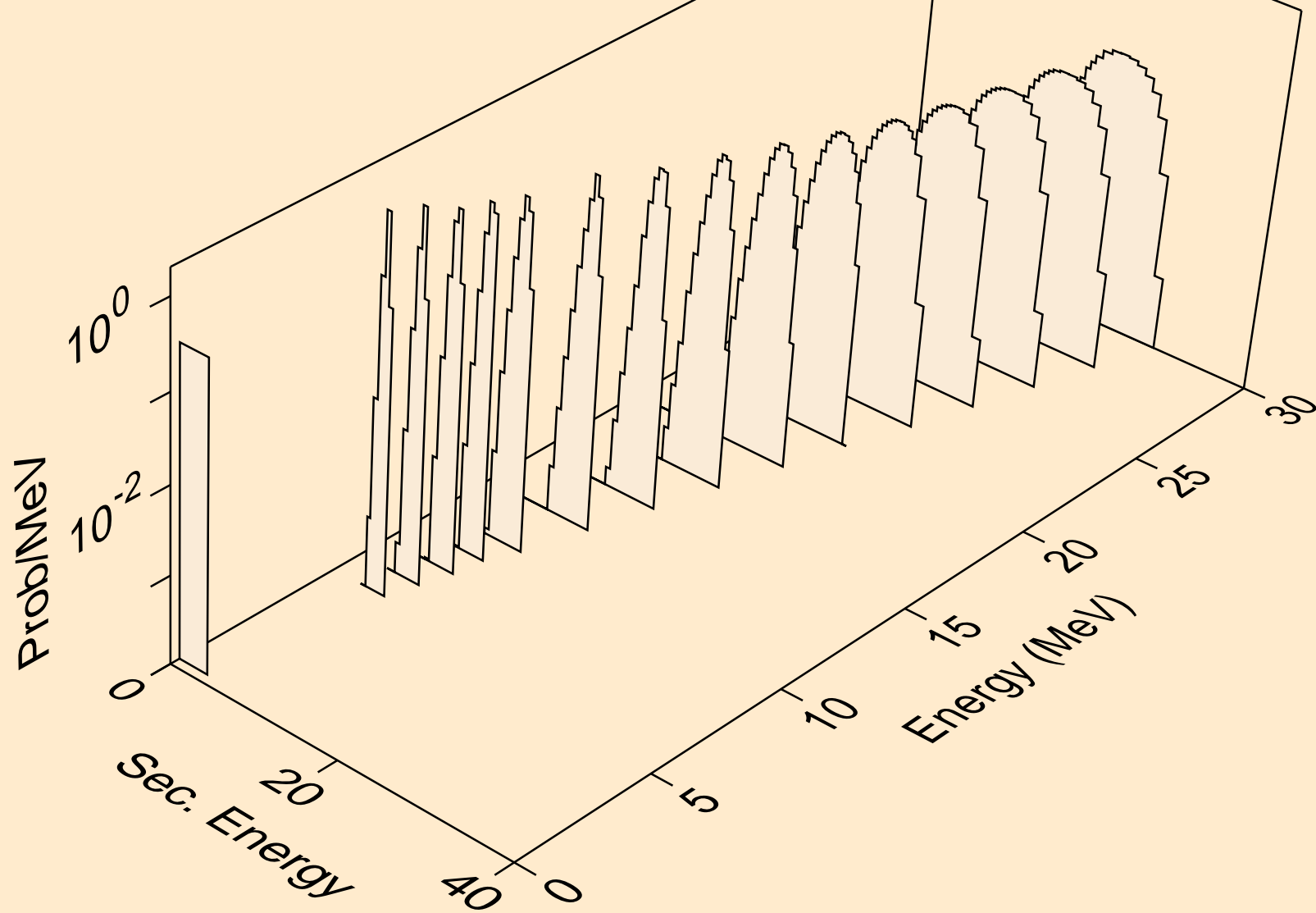
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,x)



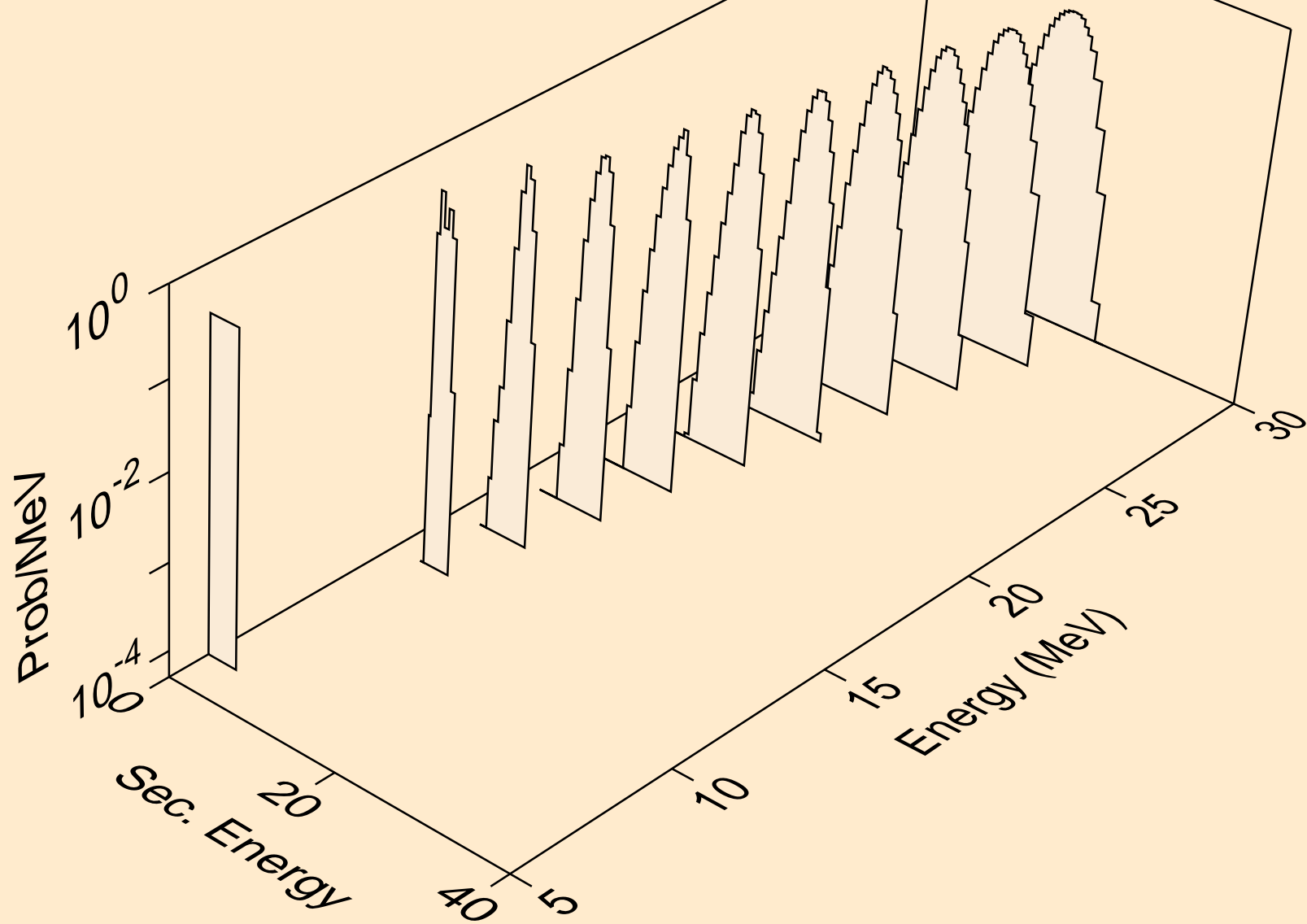
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,n\*)a



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,2n)a

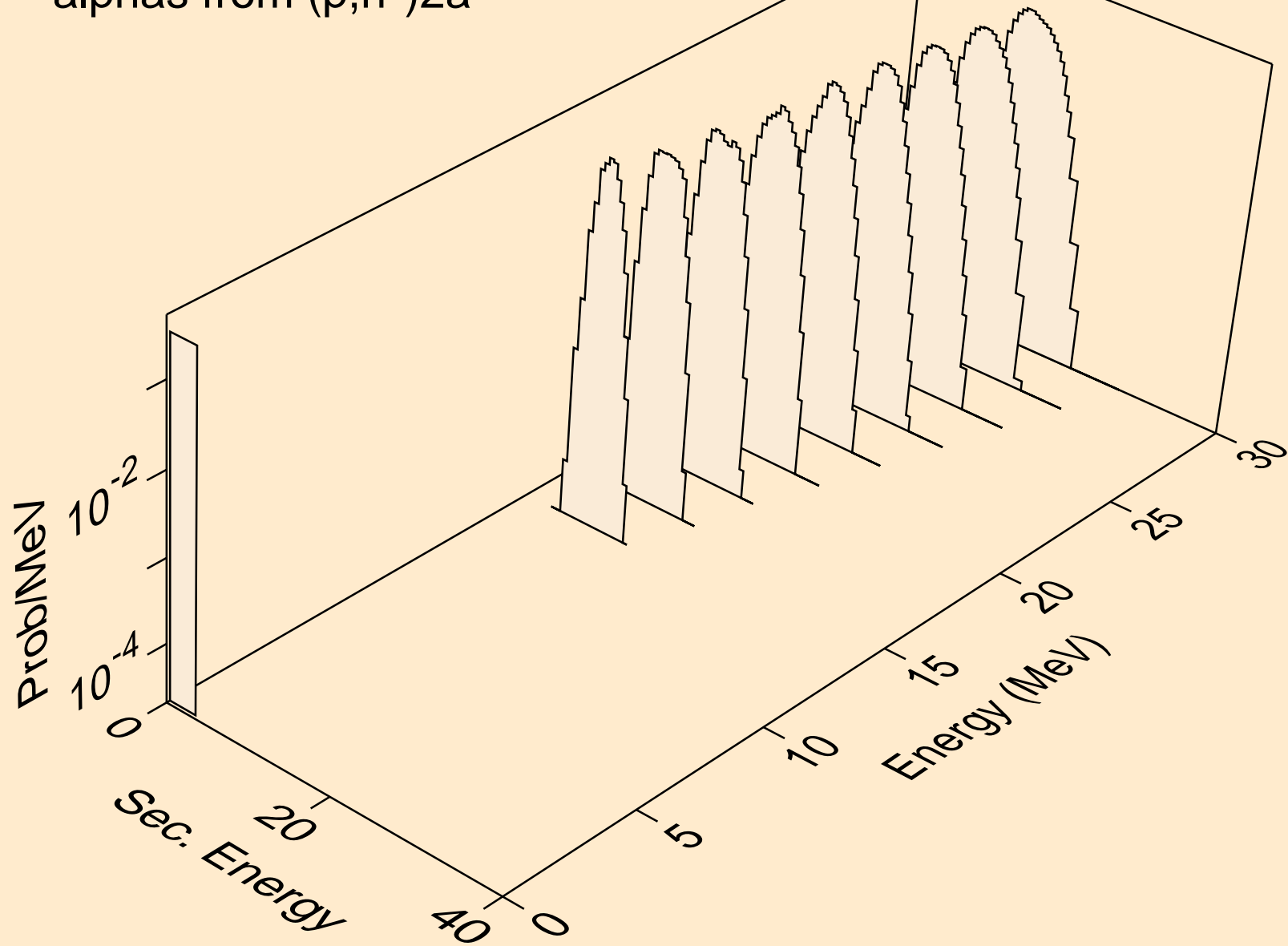


I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,3n)a

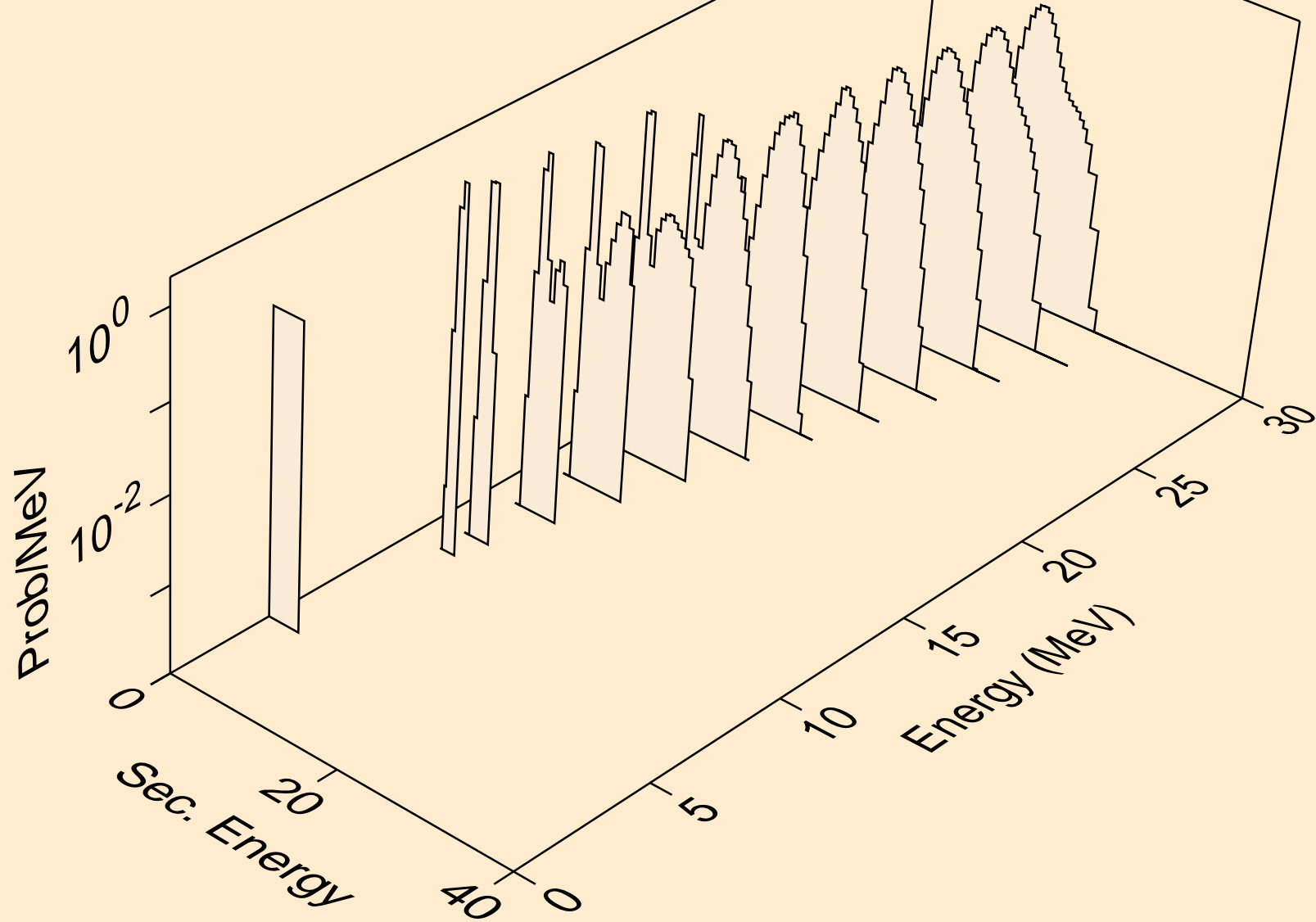




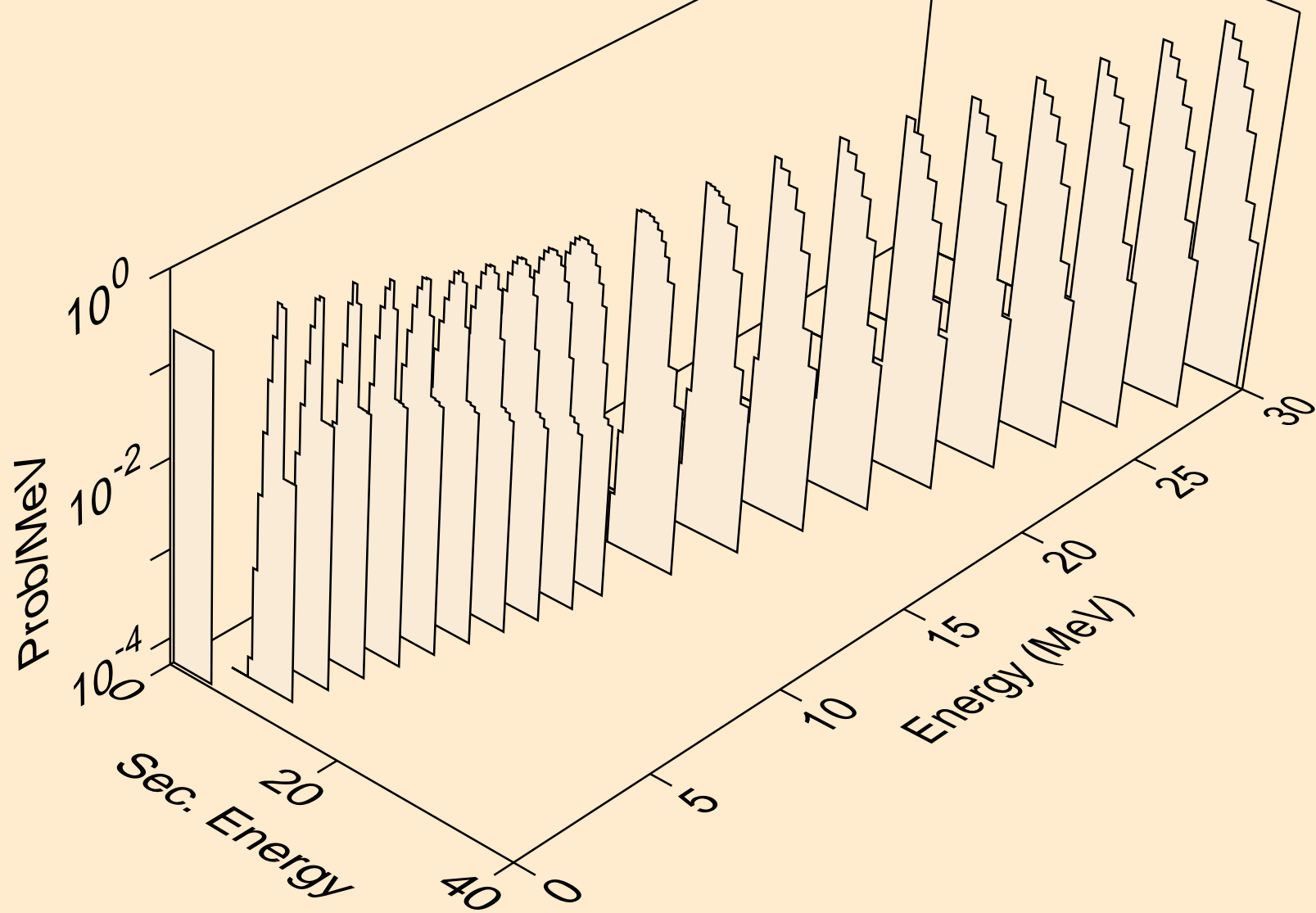
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,n\*)2a



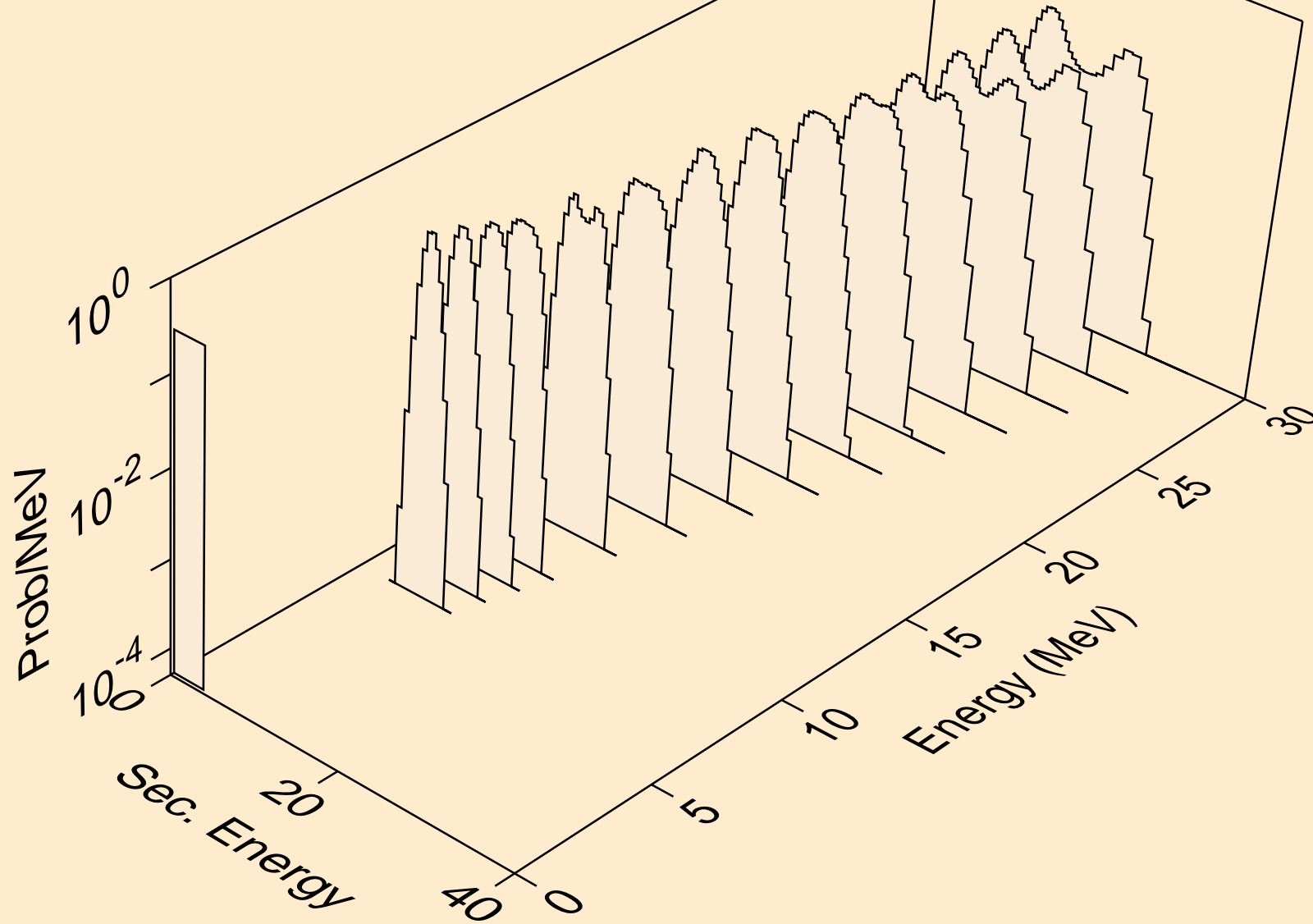
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,npa)



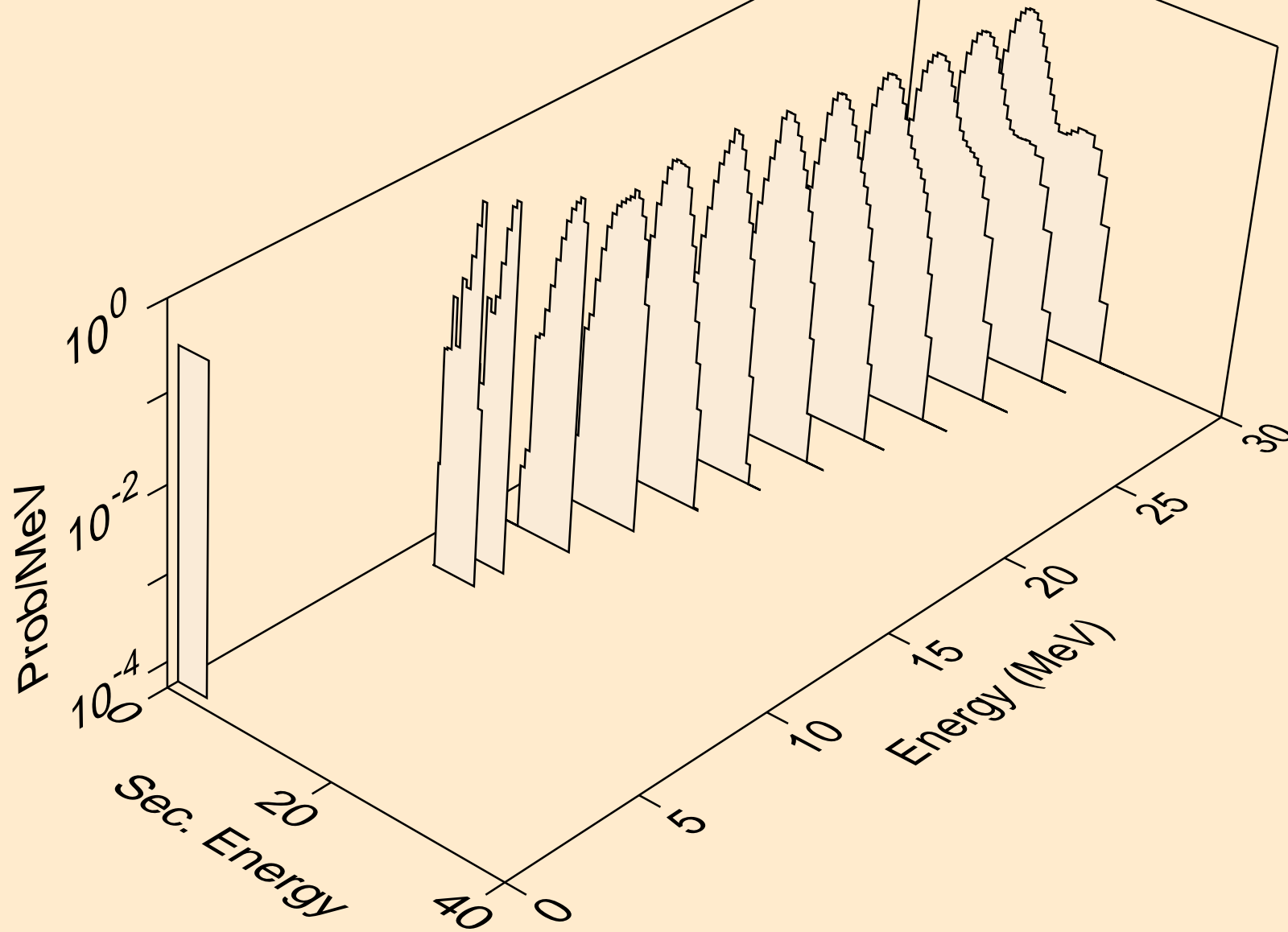
I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,a)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,2a)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,pa)



I138 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,da)

