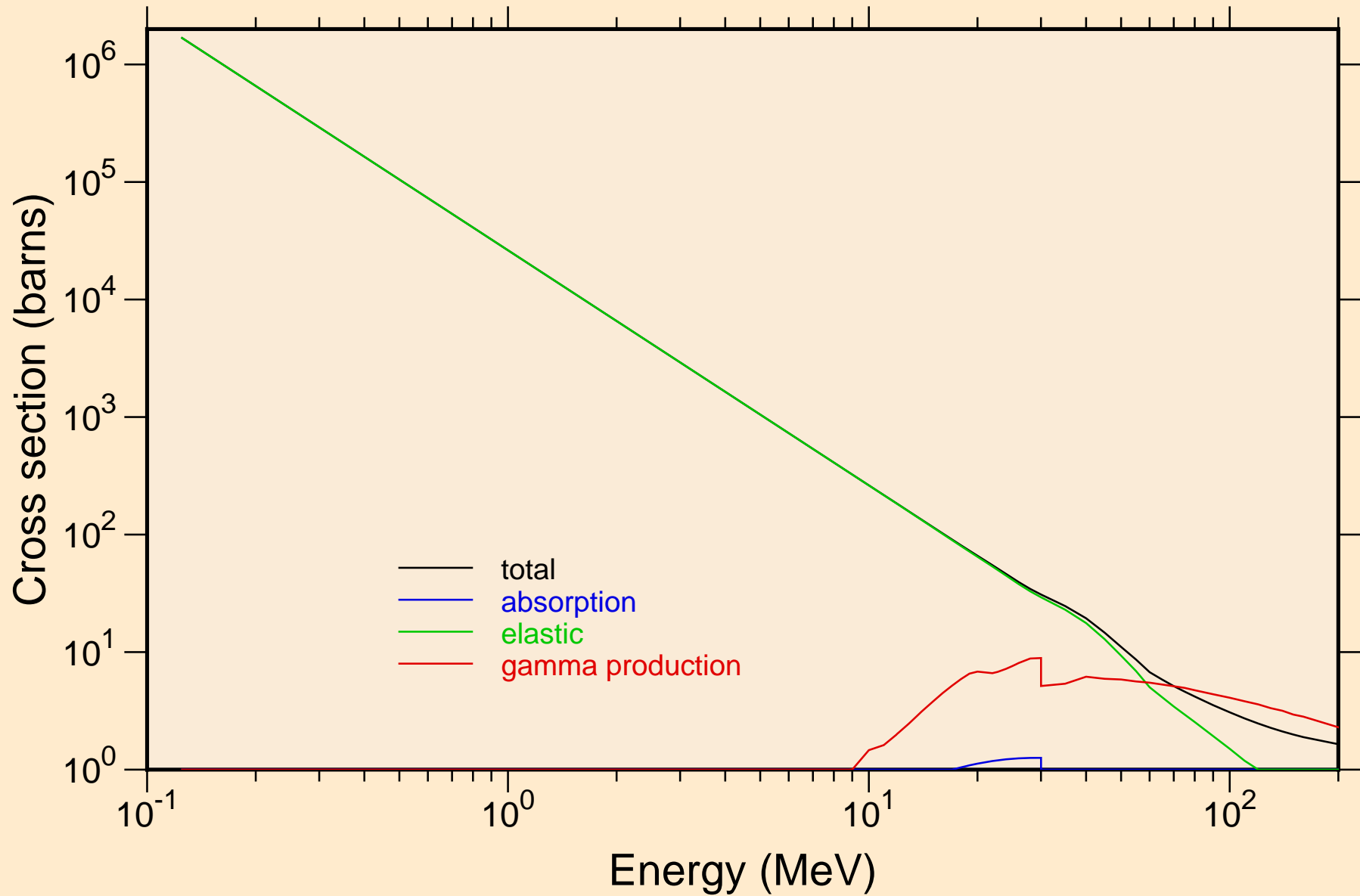


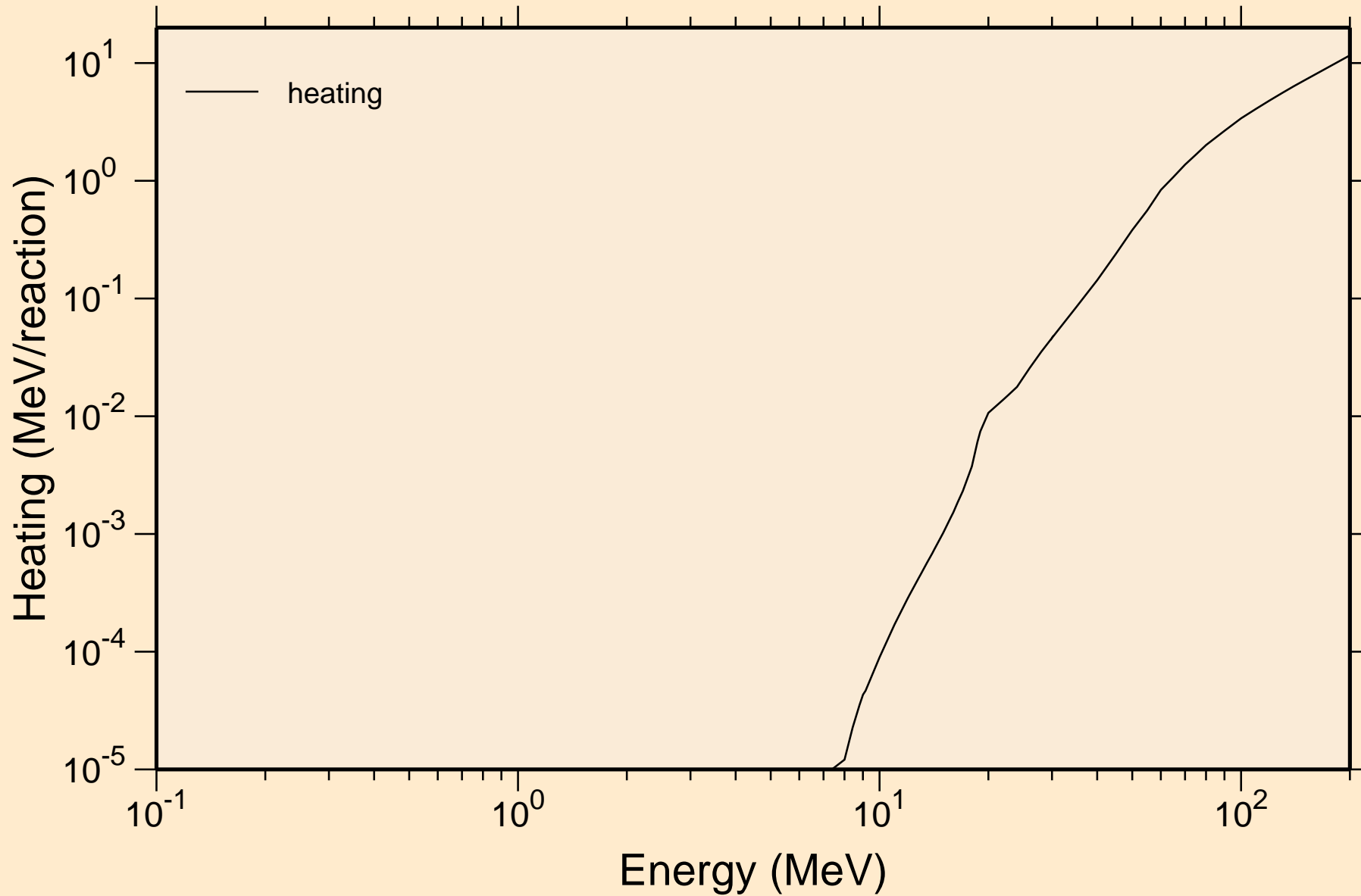
# TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



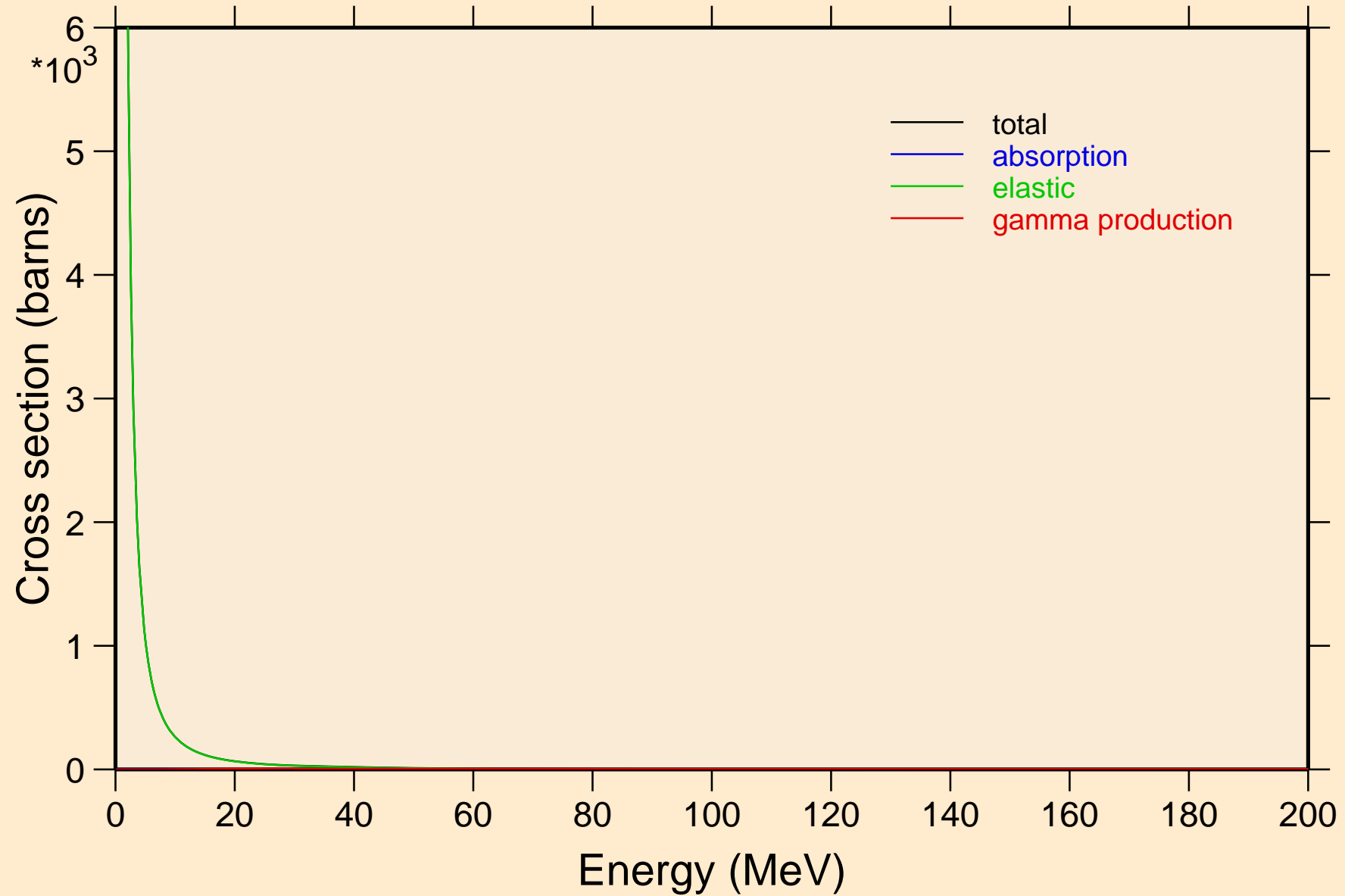
# TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



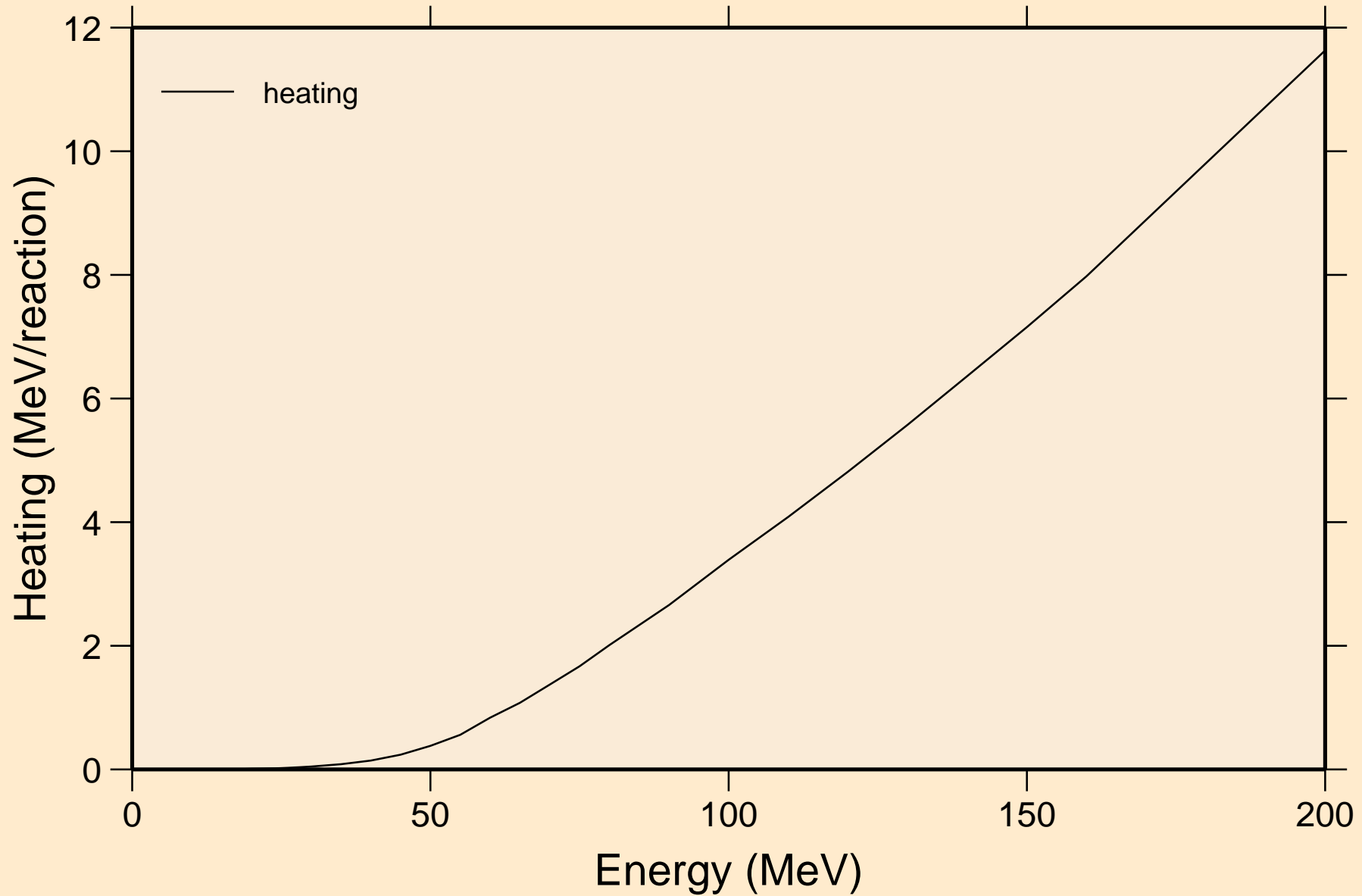
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## Principal cross sections

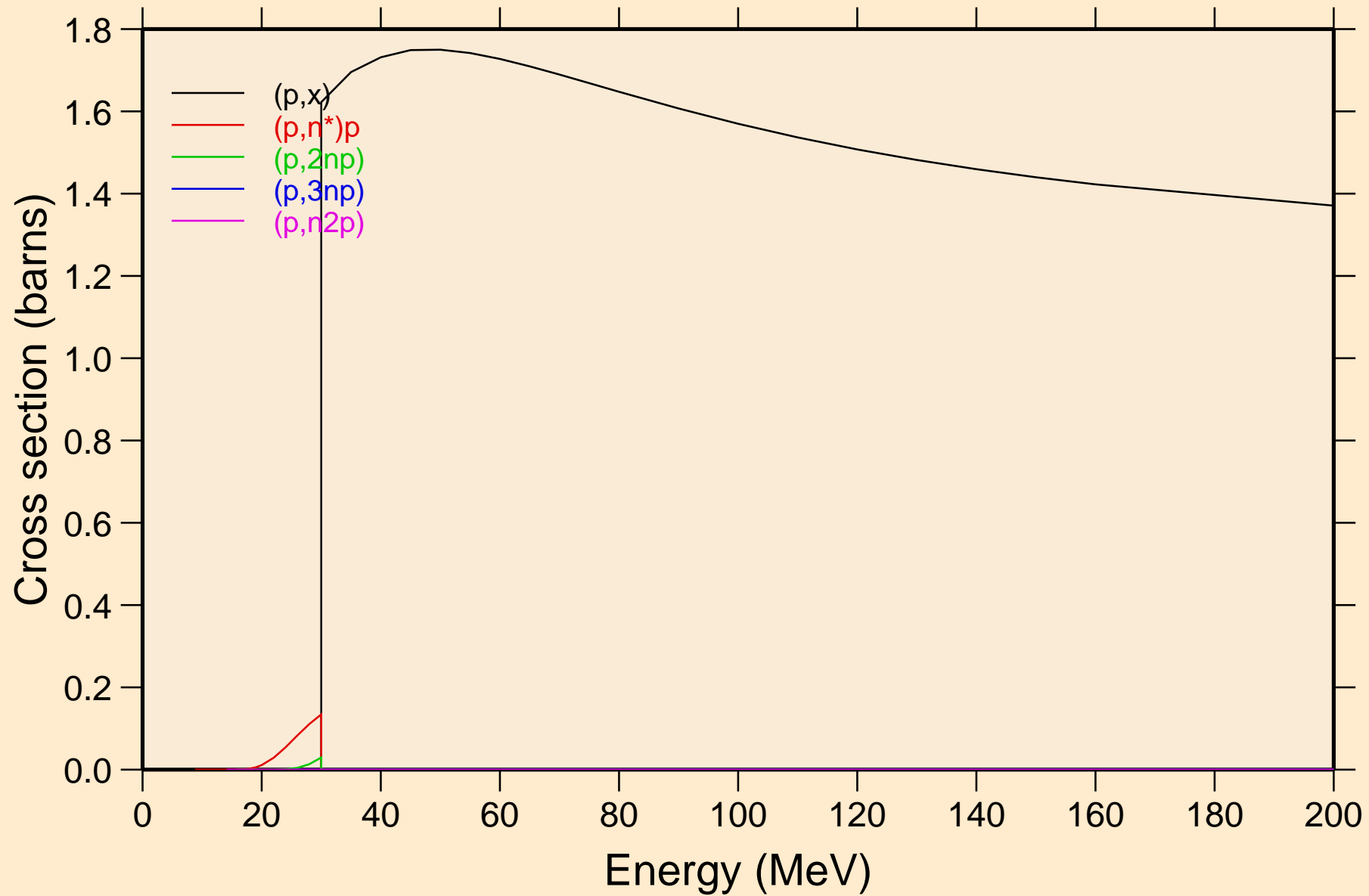


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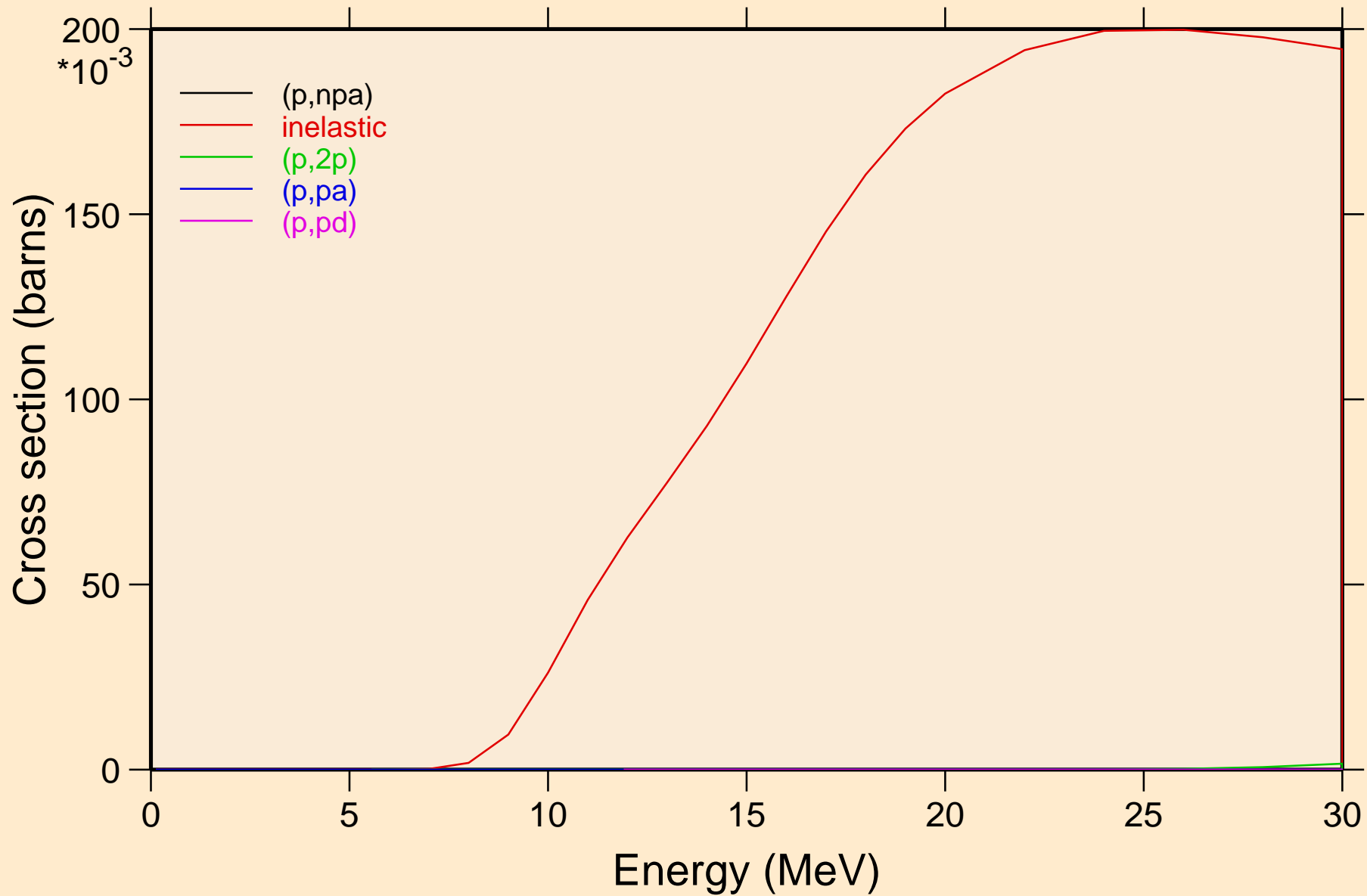
## Heating



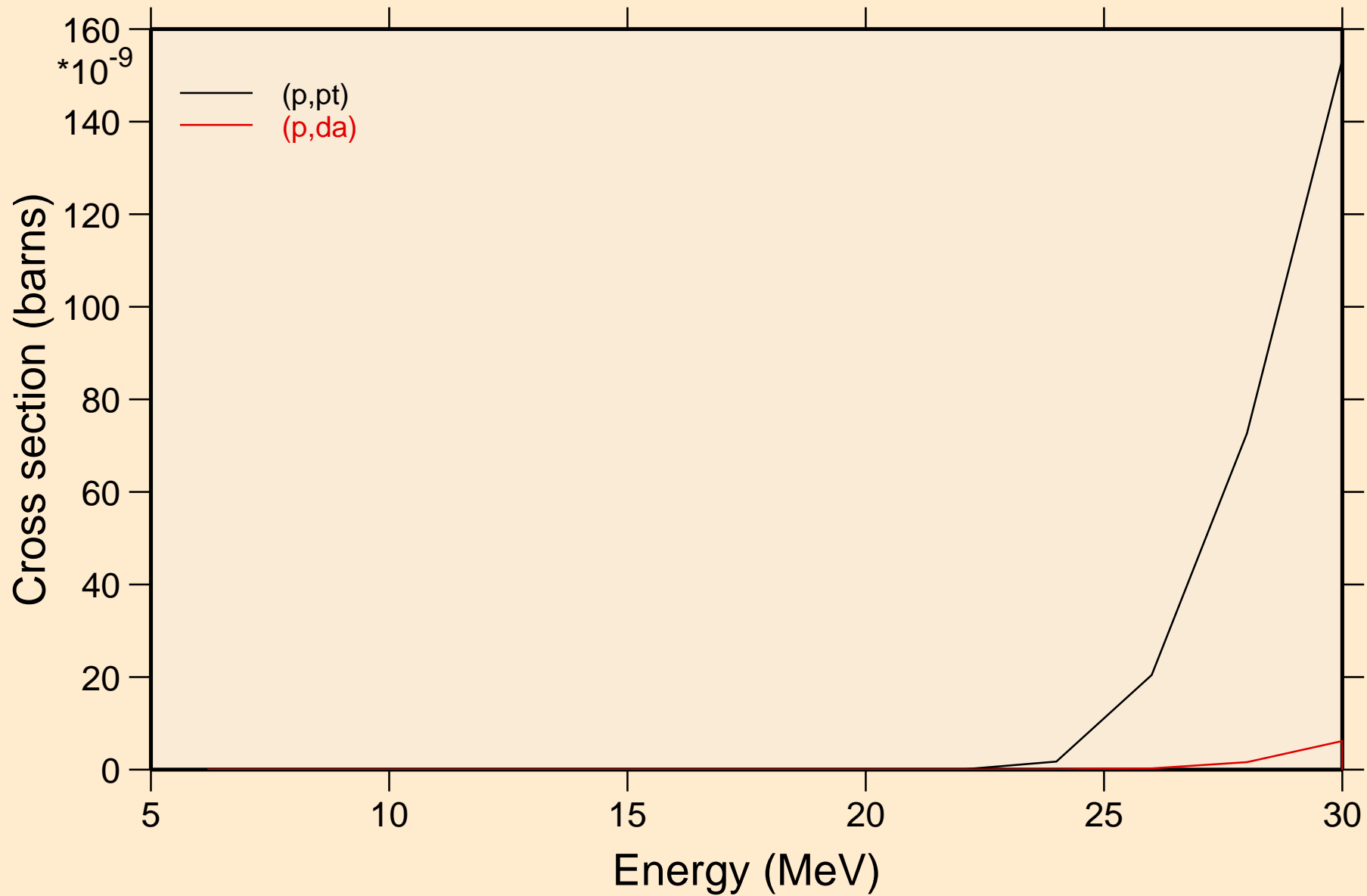
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Threshold reactions



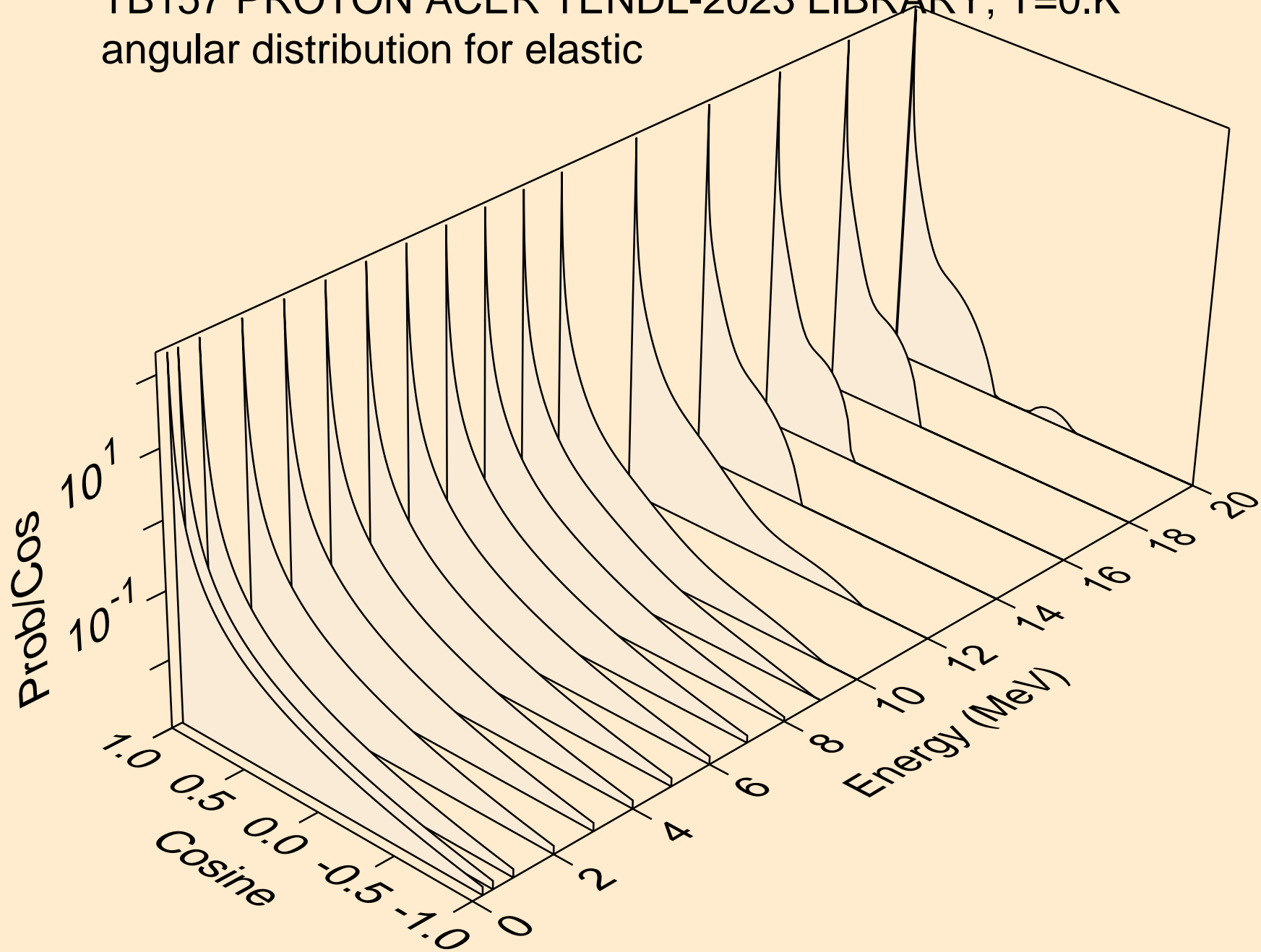
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

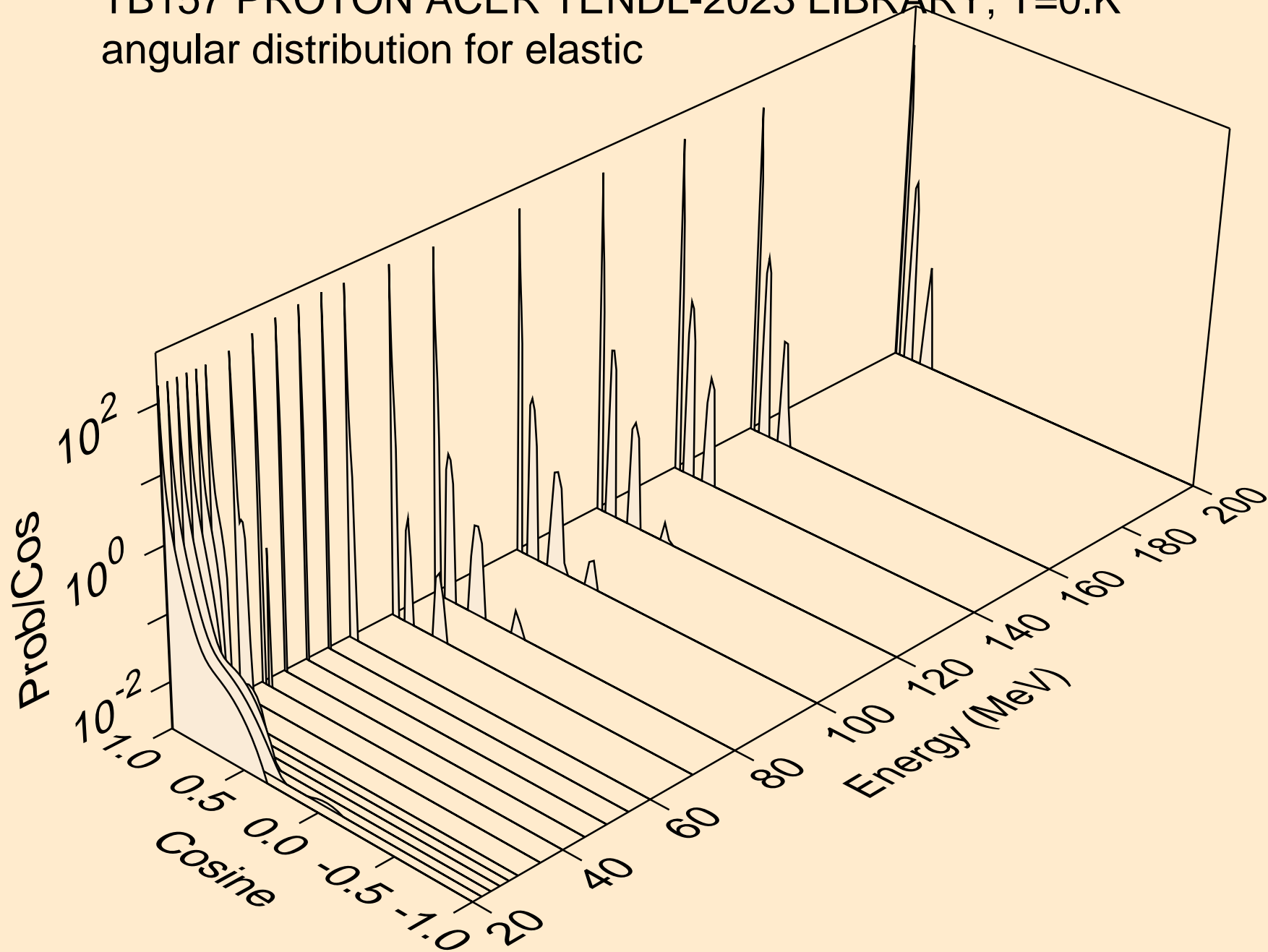


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

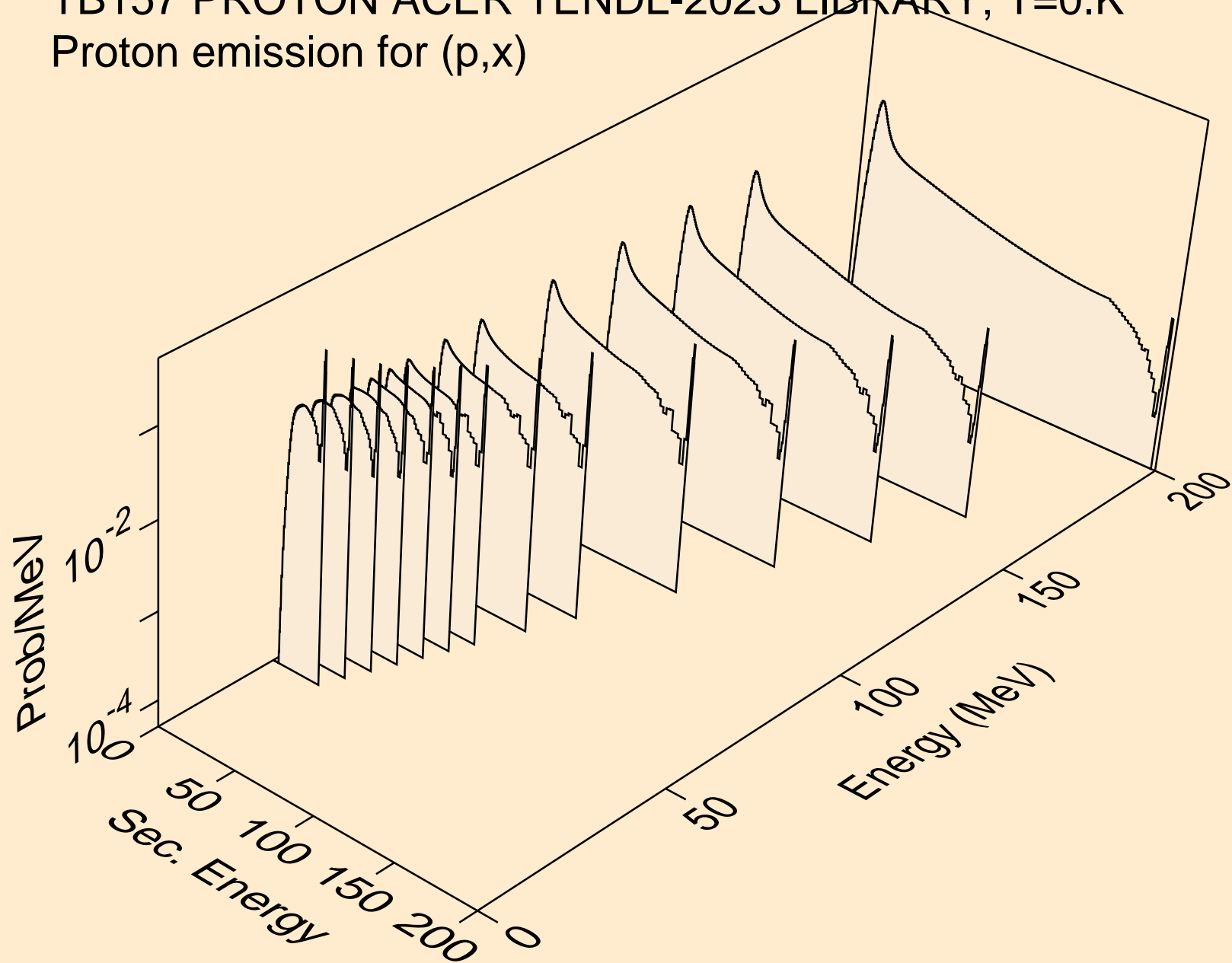




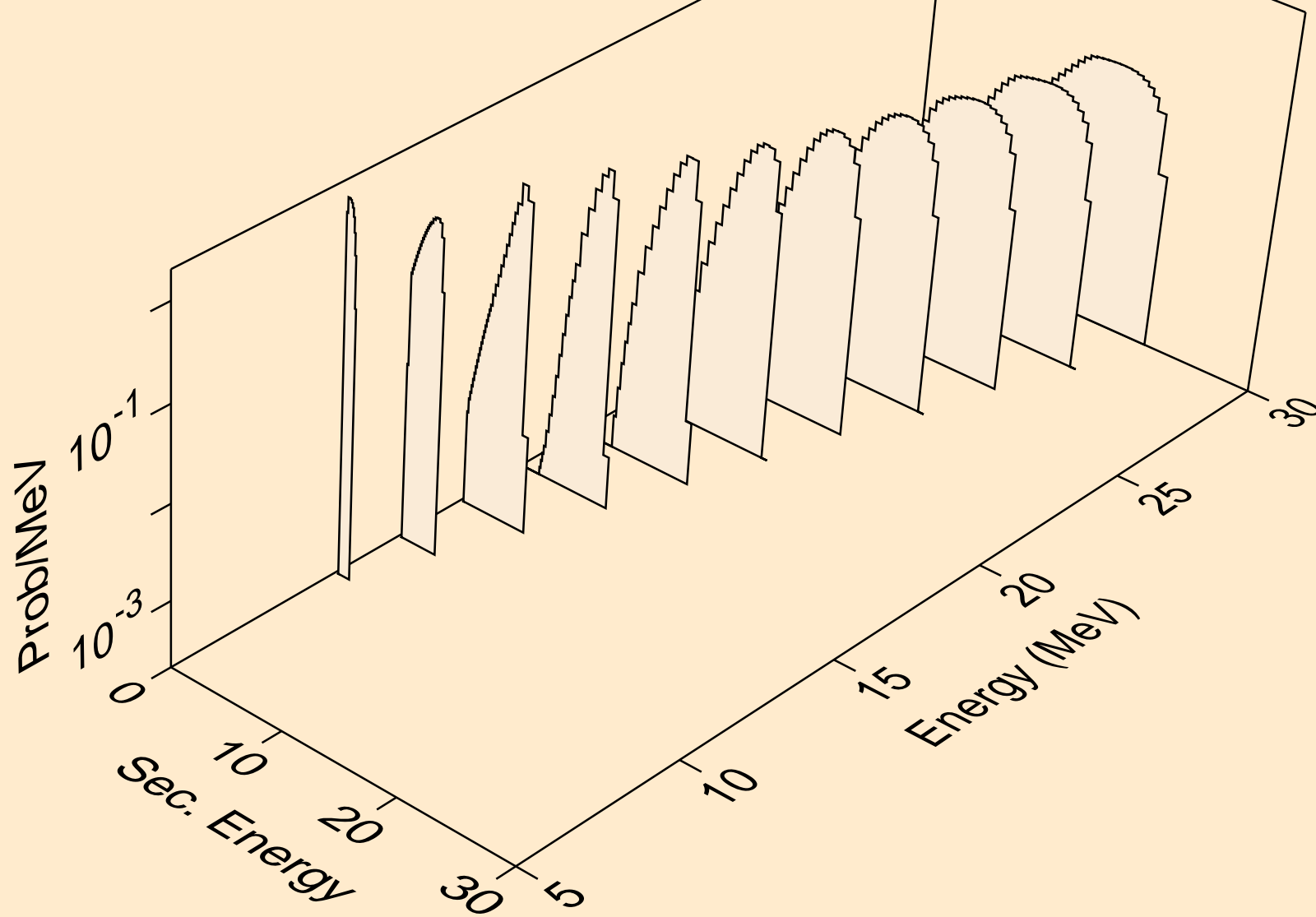
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angular distribution for elastic



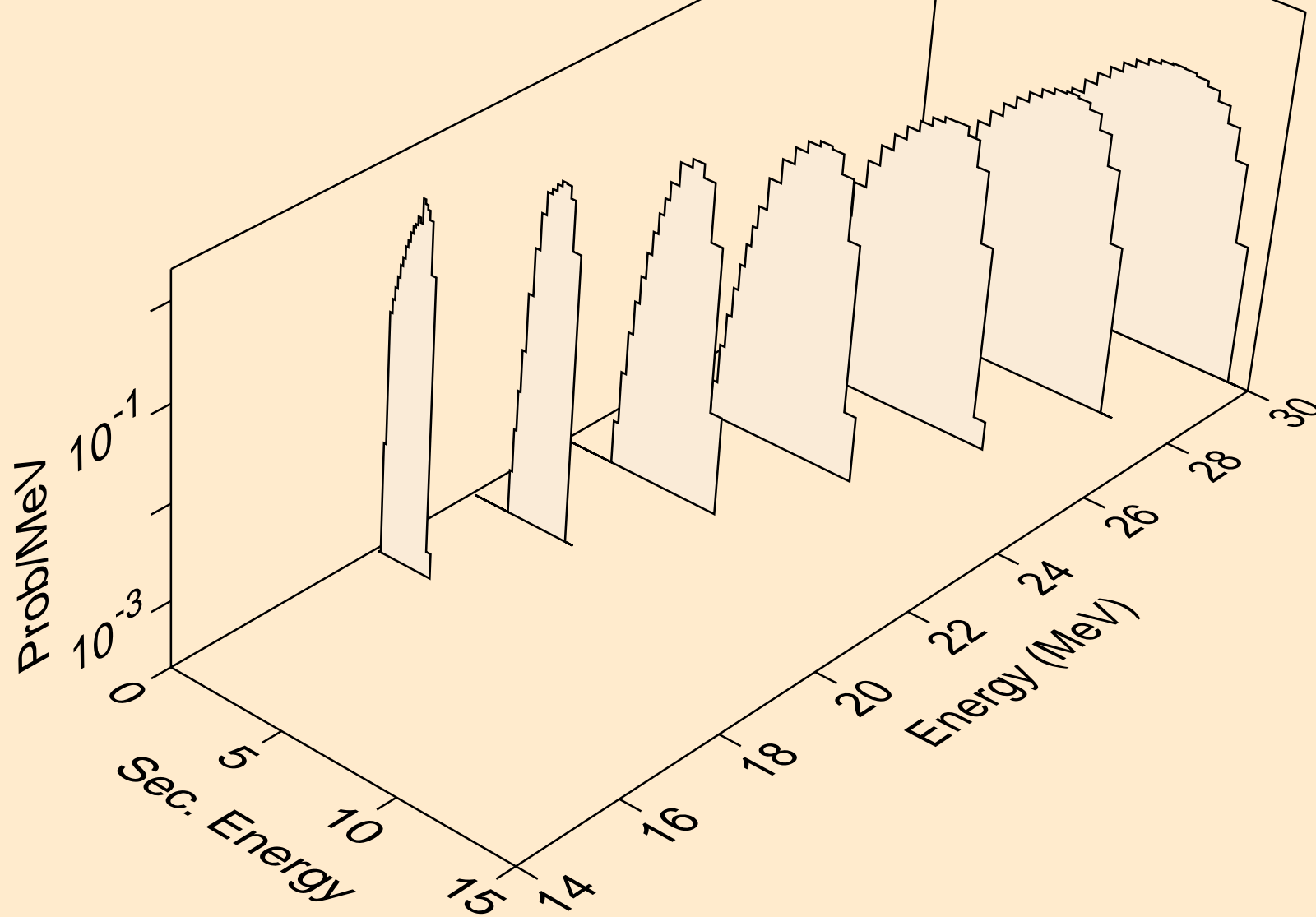
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



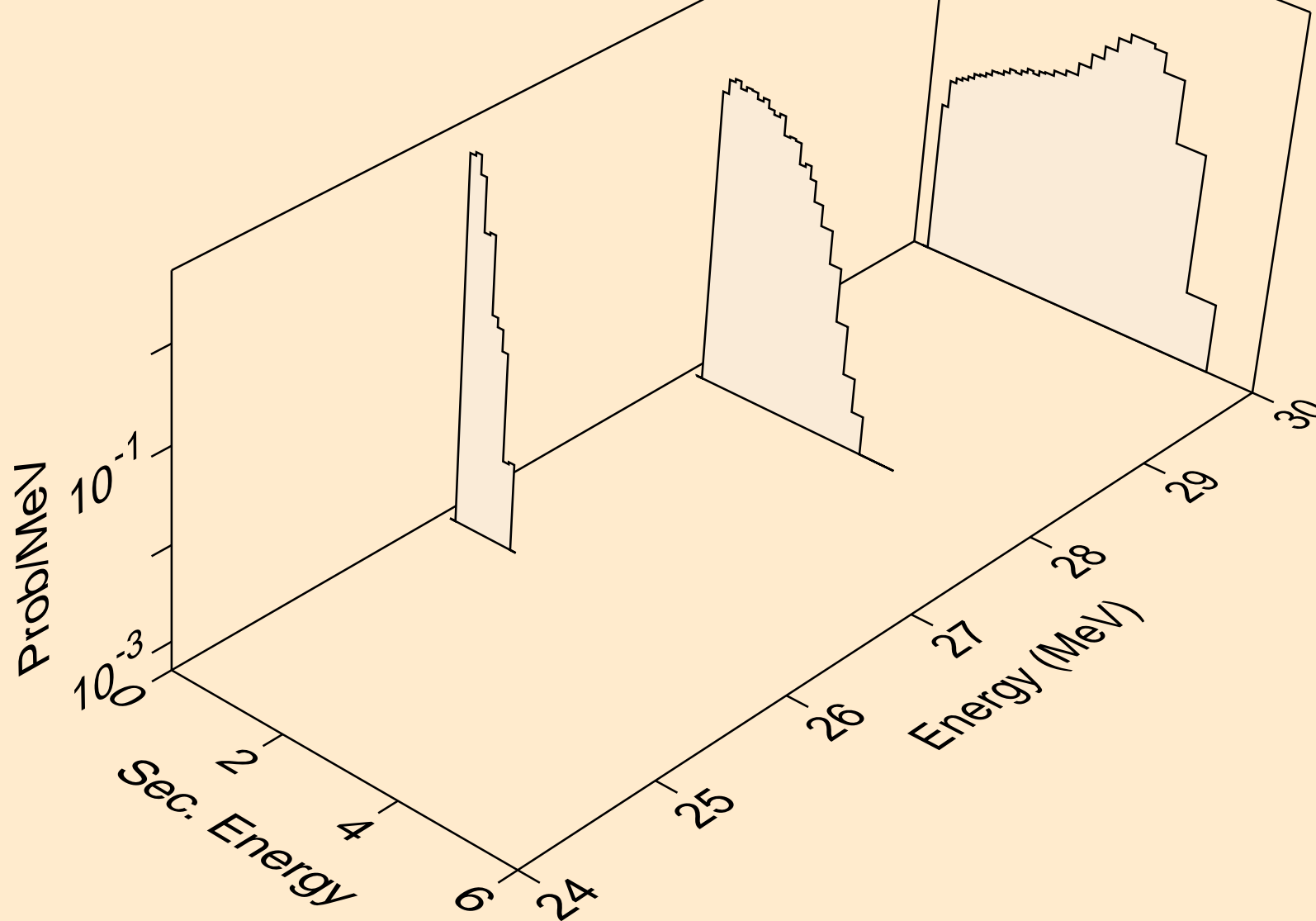
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



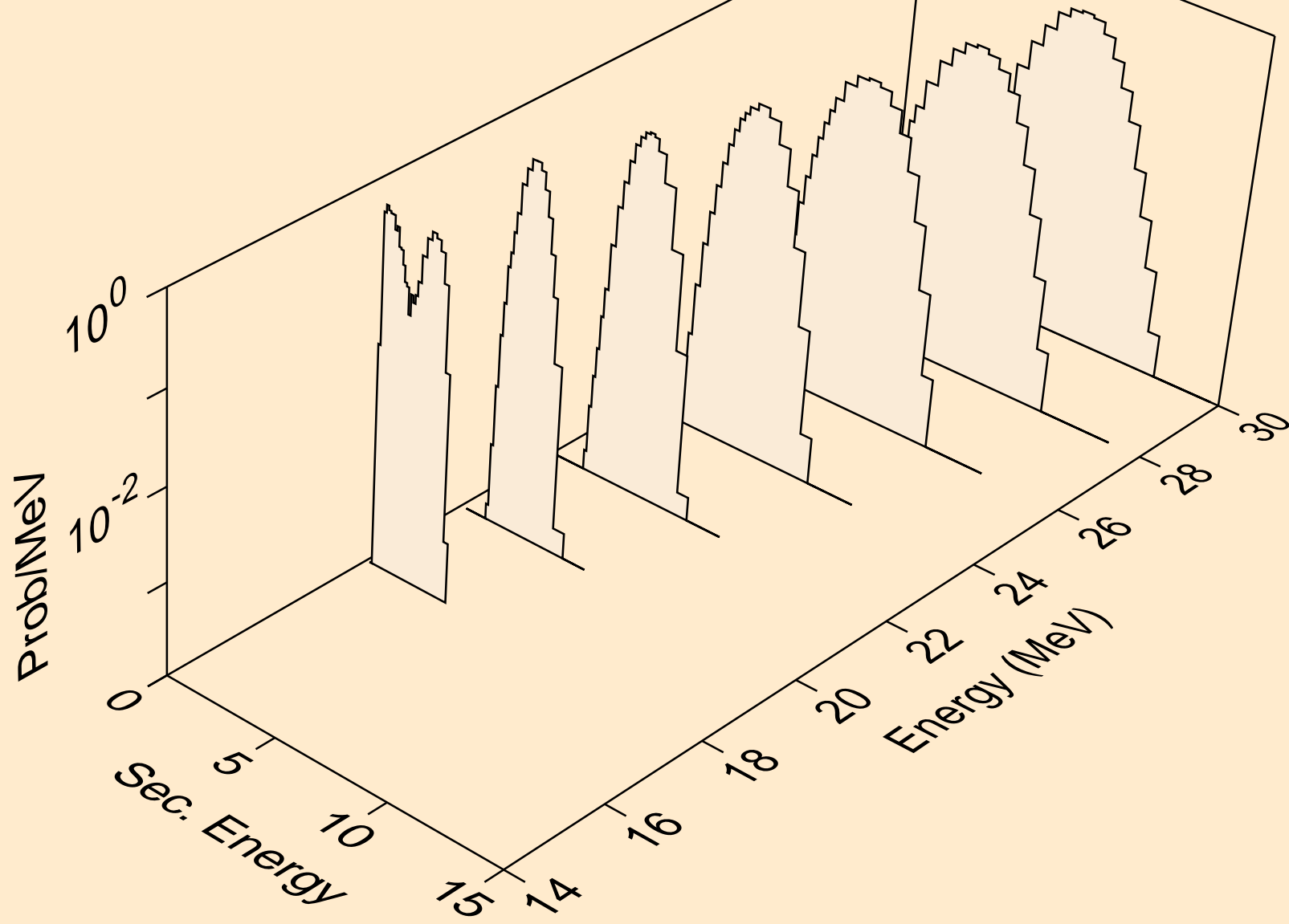
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



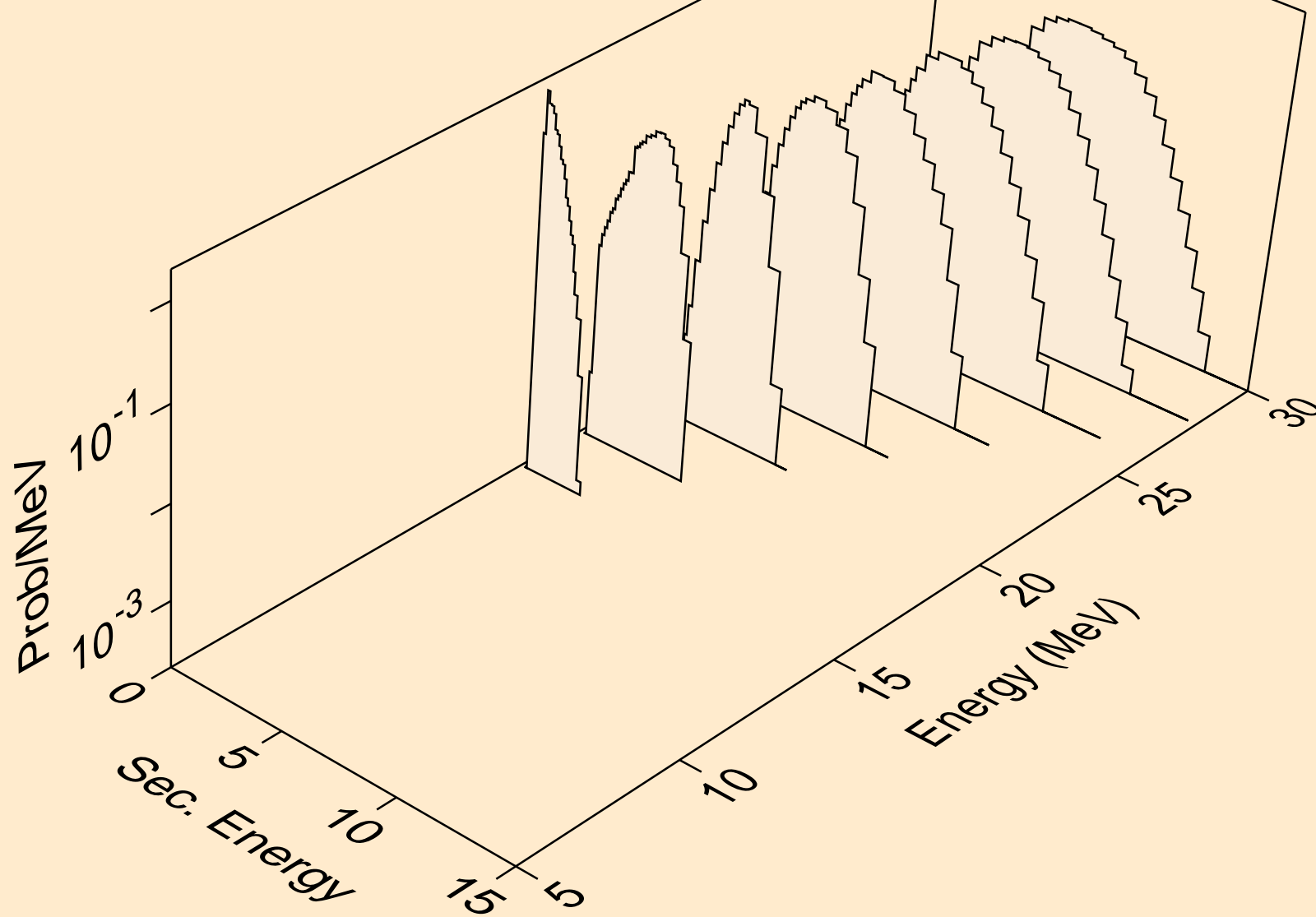
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)



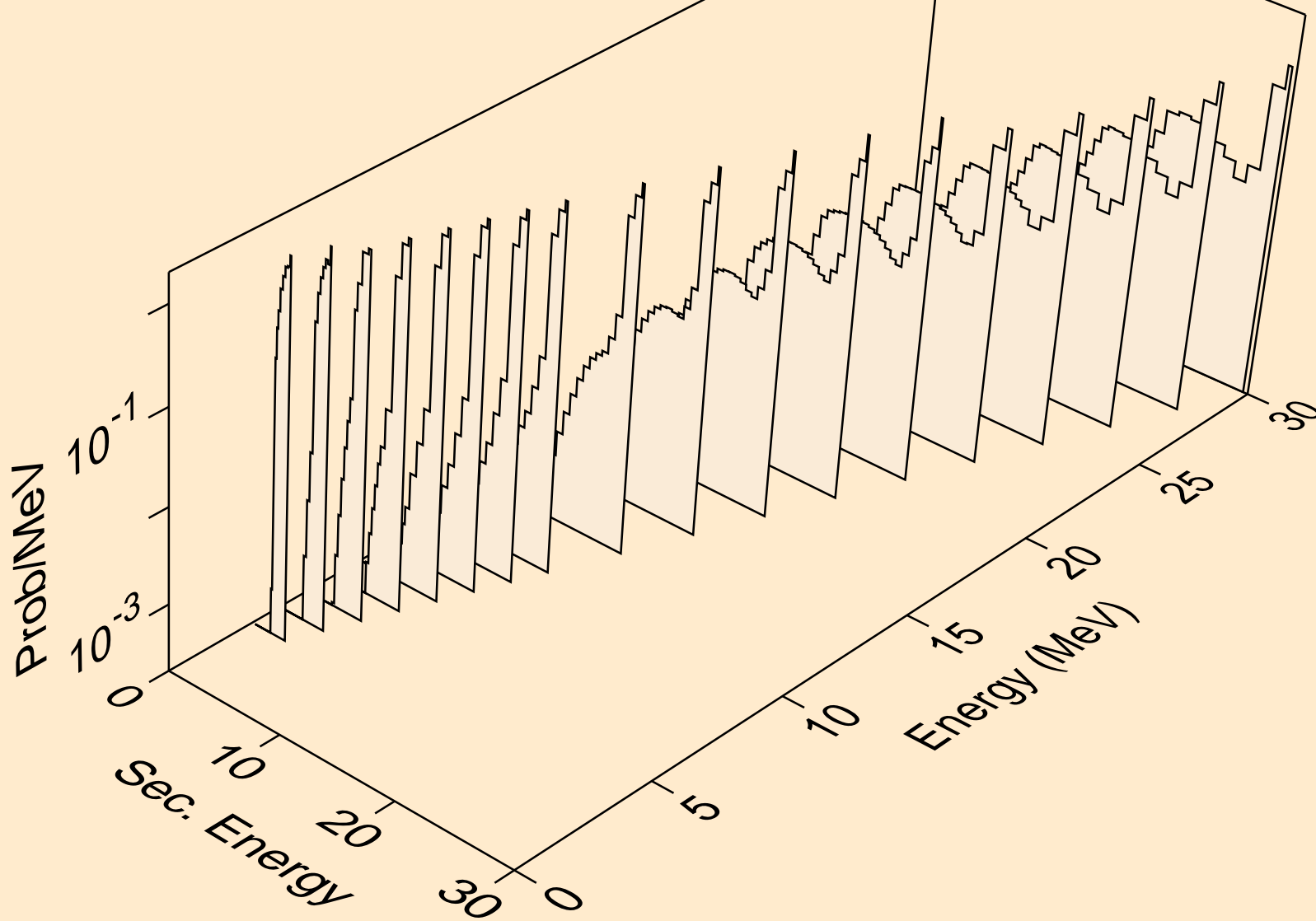
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

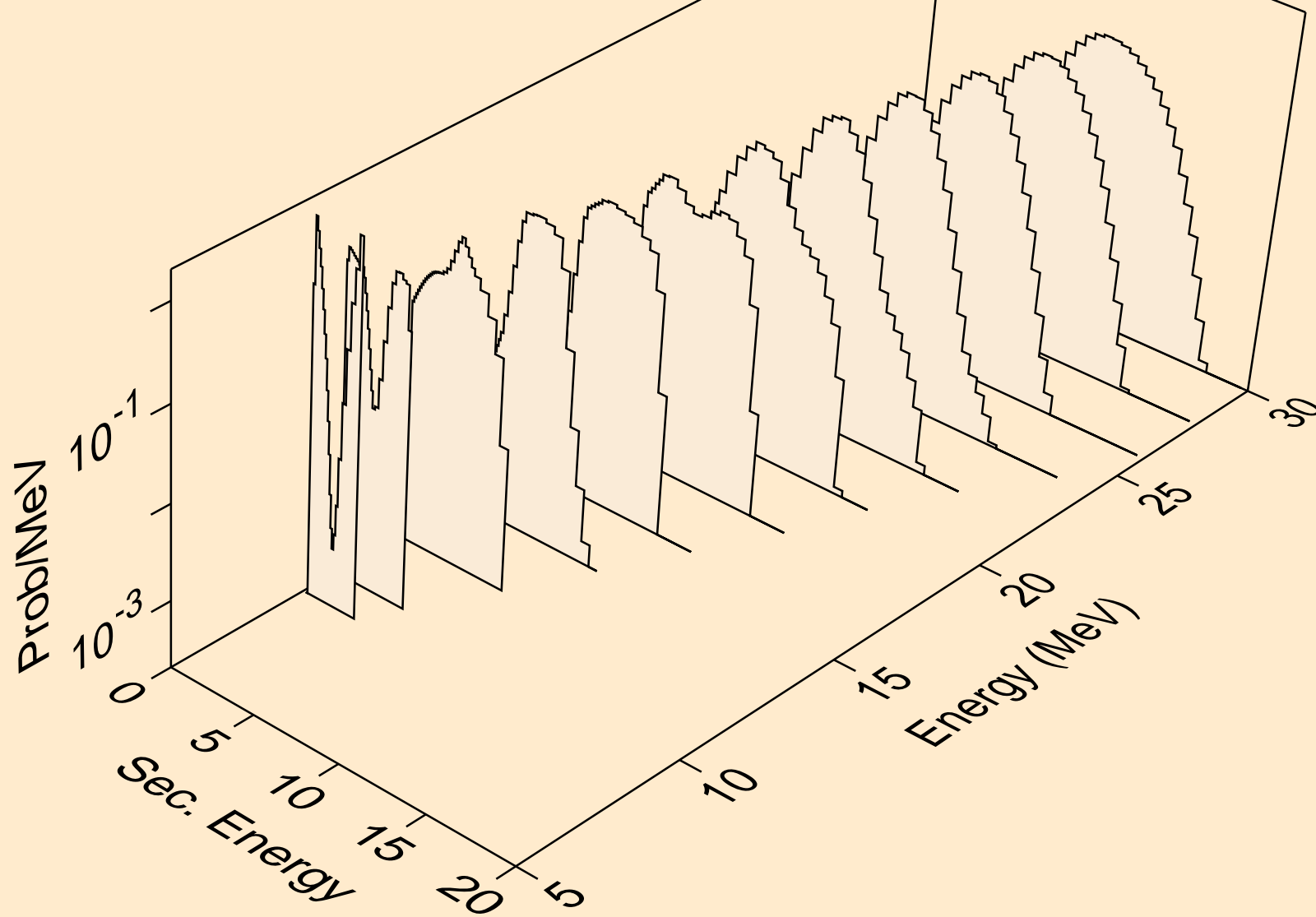


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

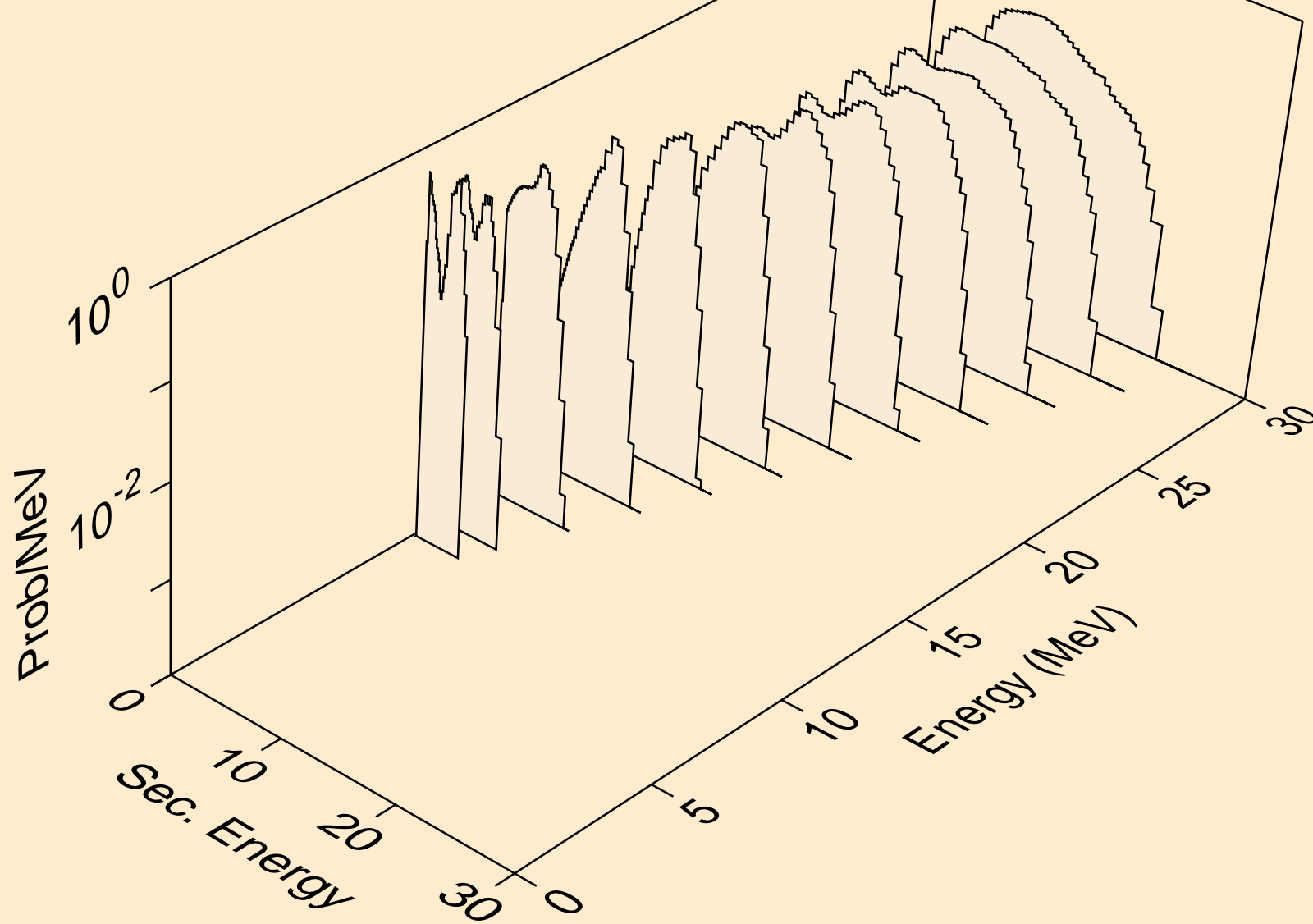




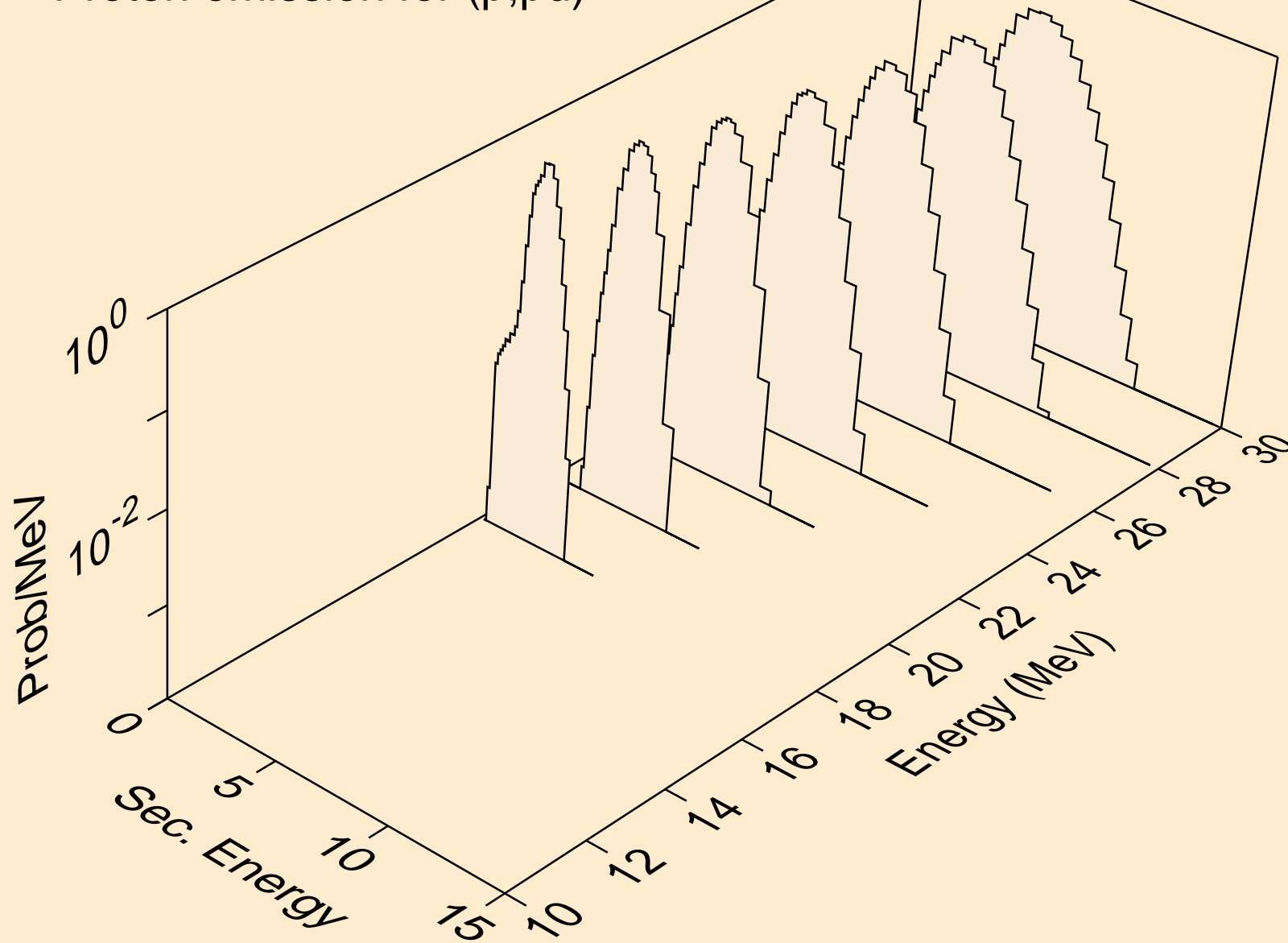
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Proton emission for (p,2p)



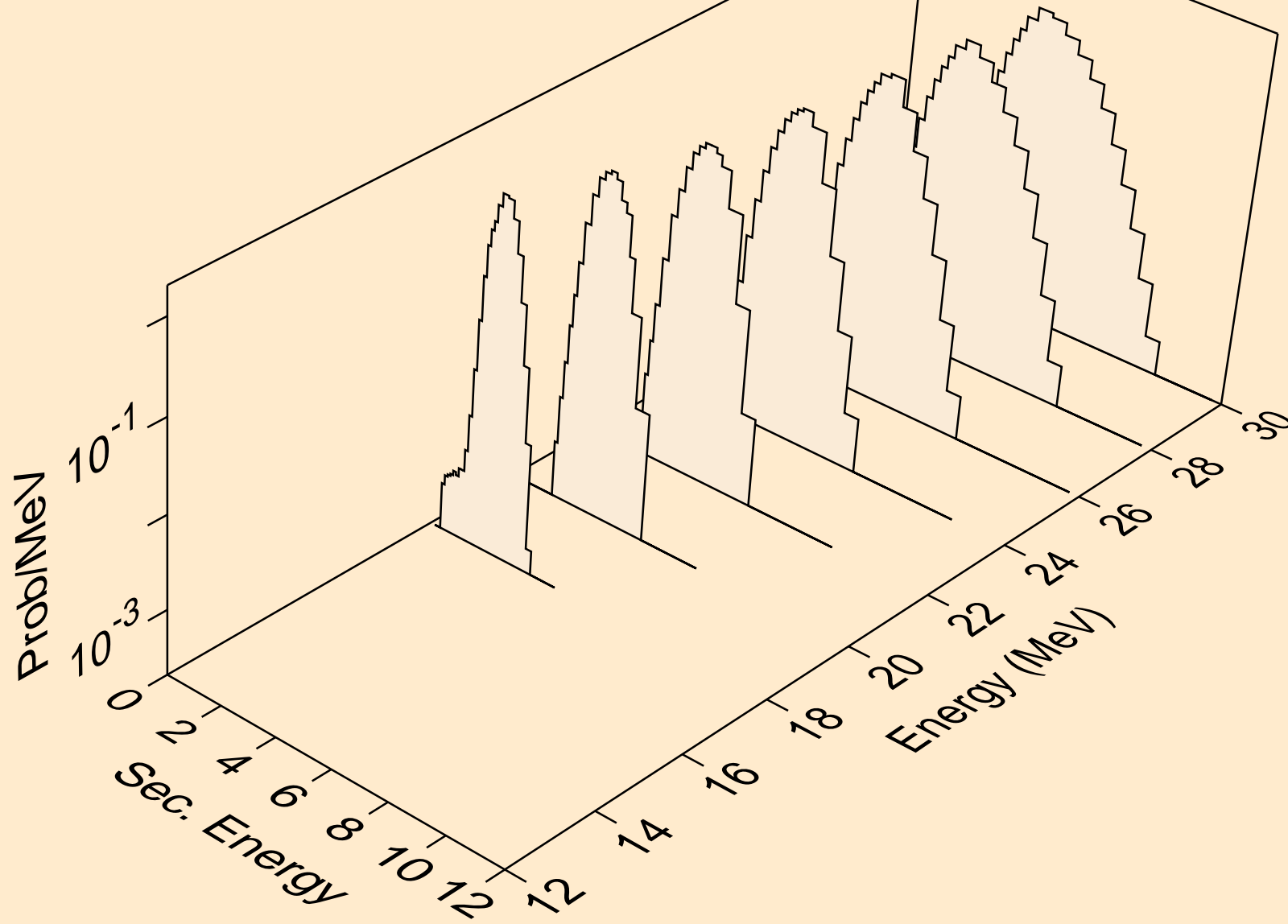
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



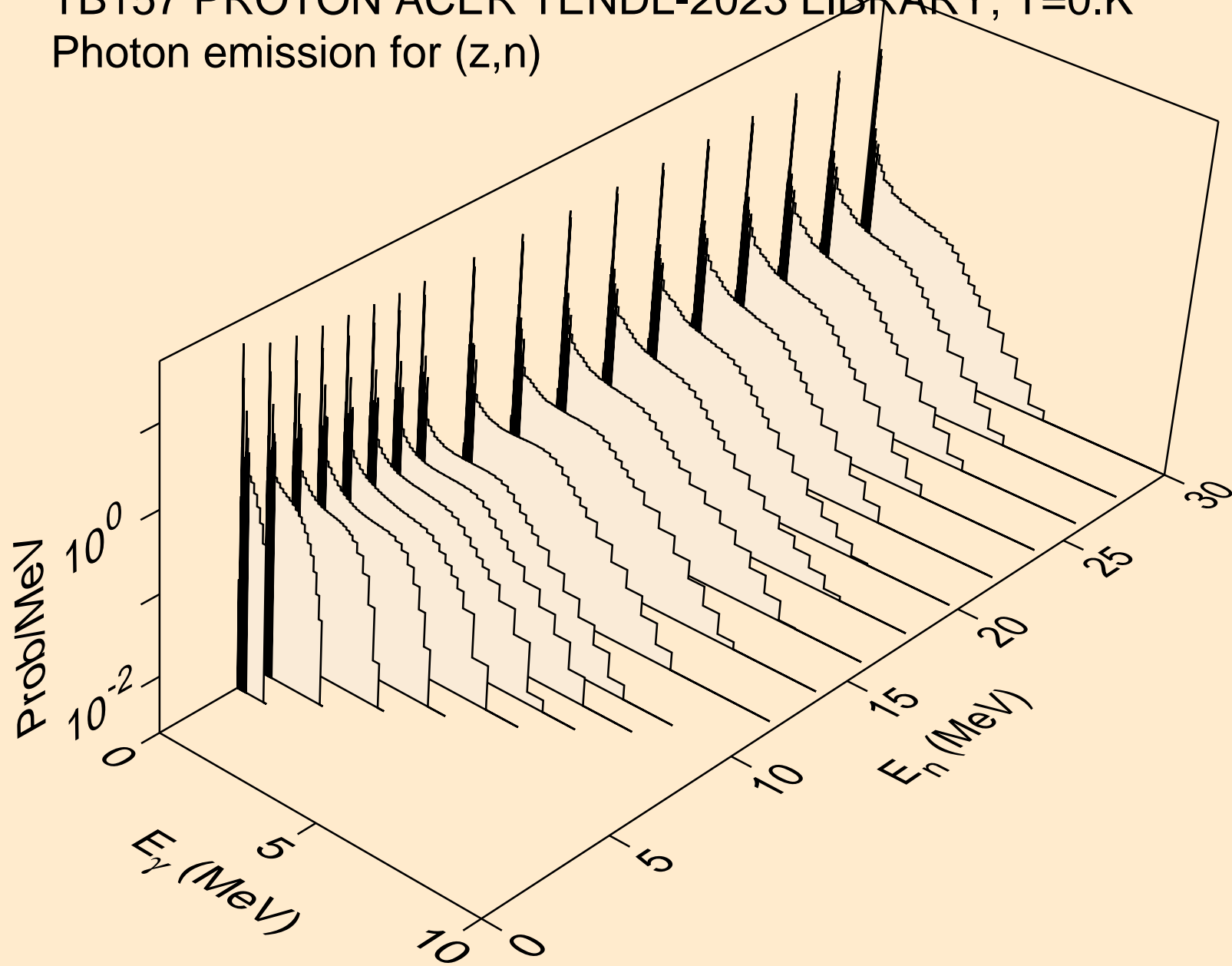
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



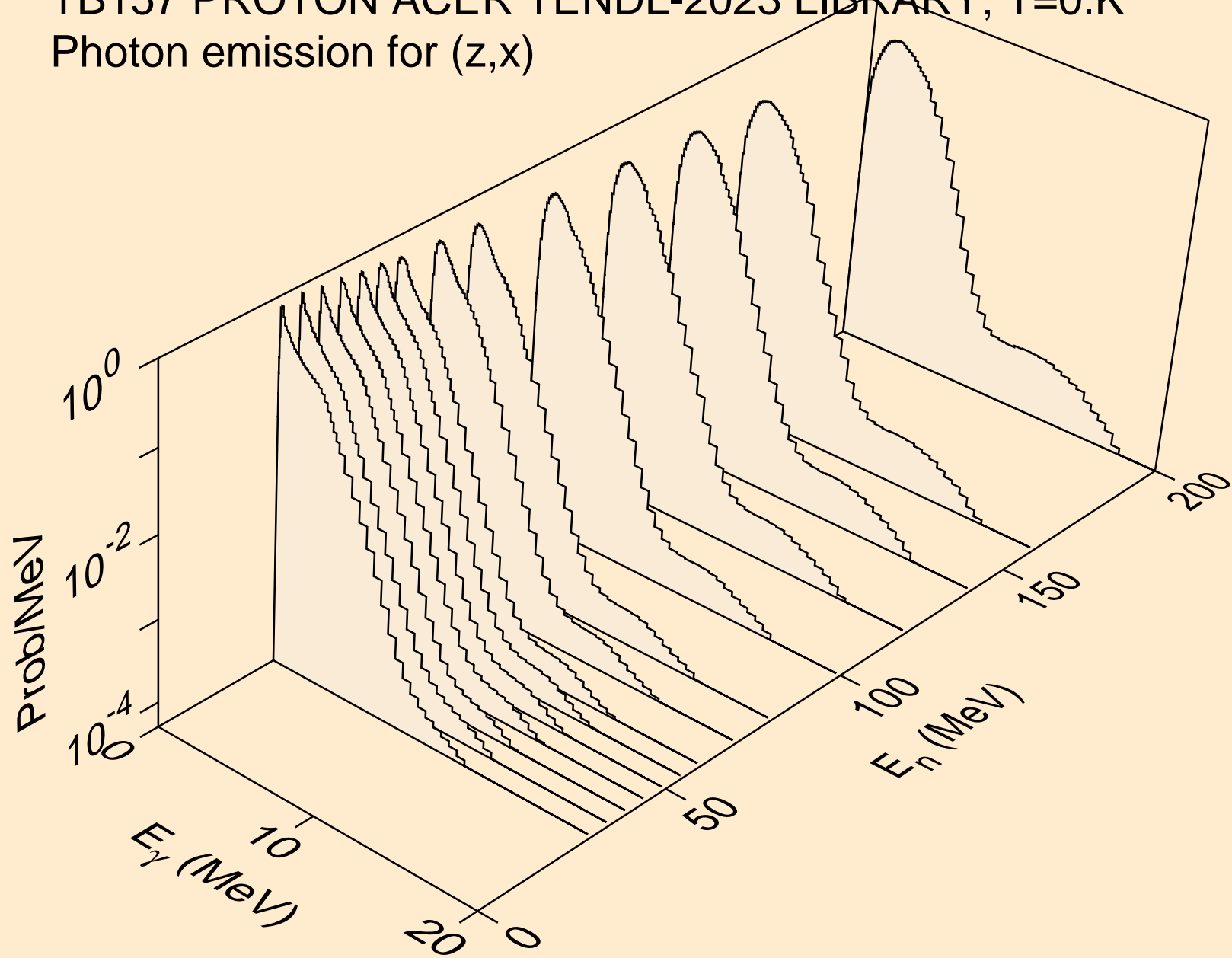
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Proton emission for (p,pt)



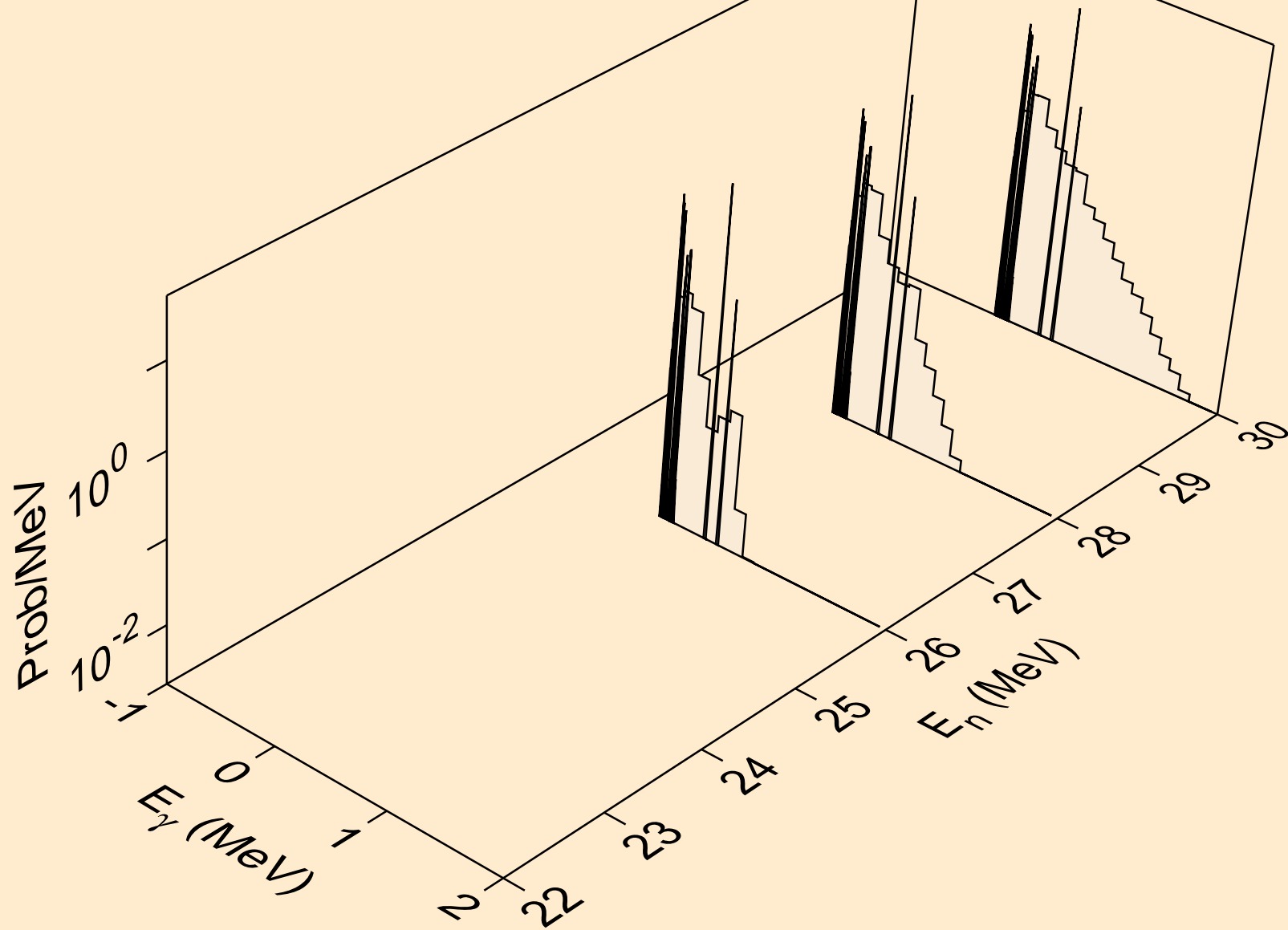
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



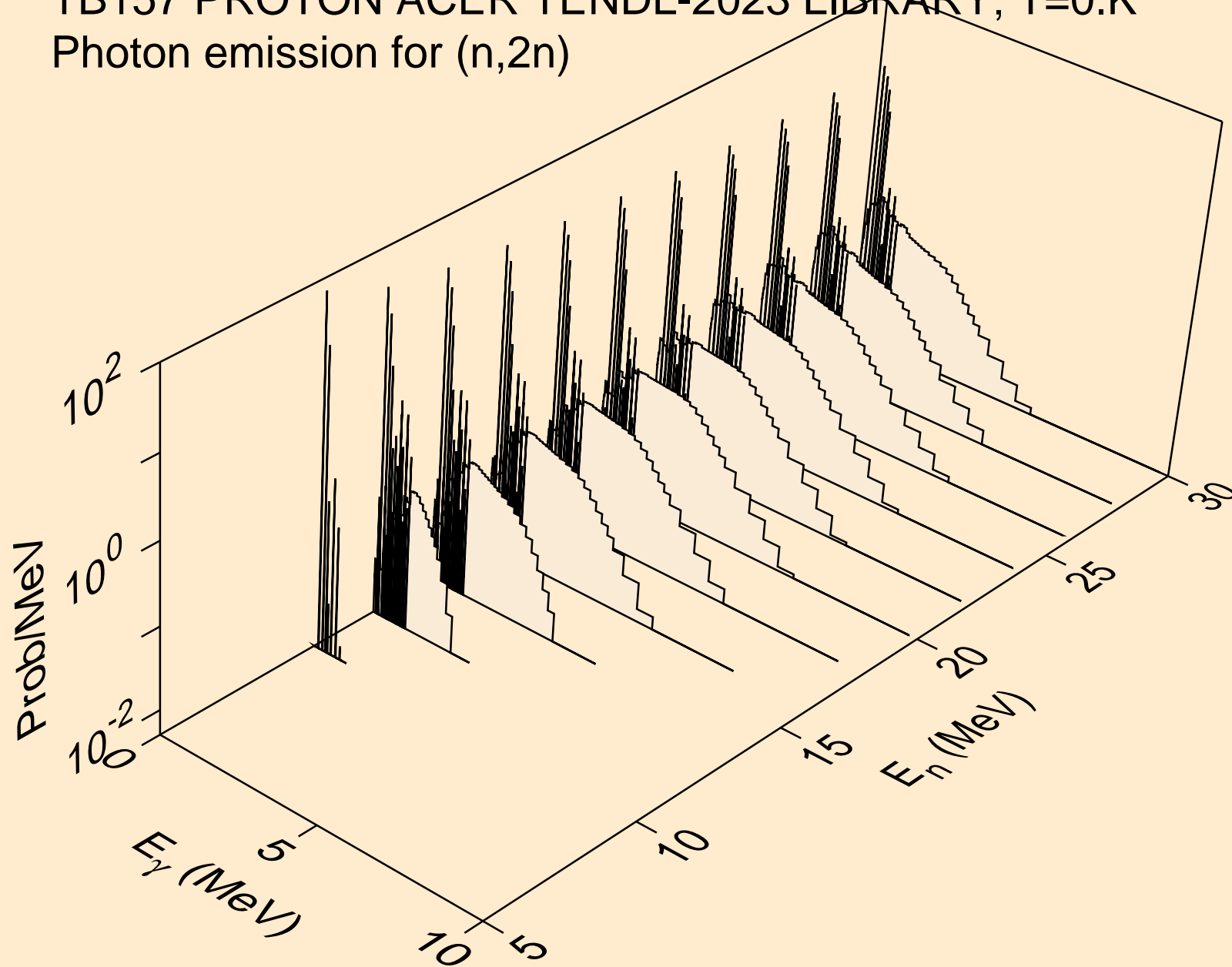
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

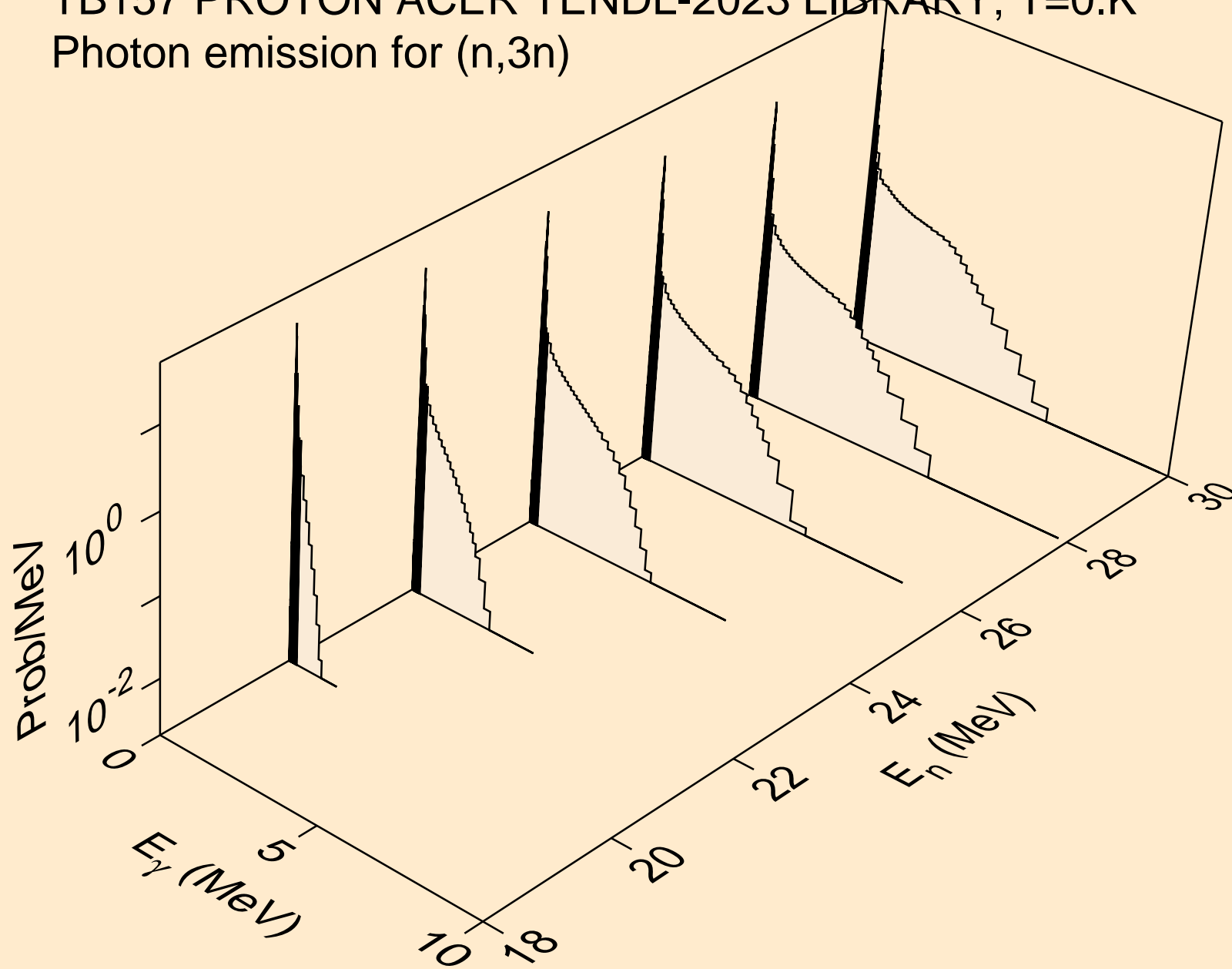


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)

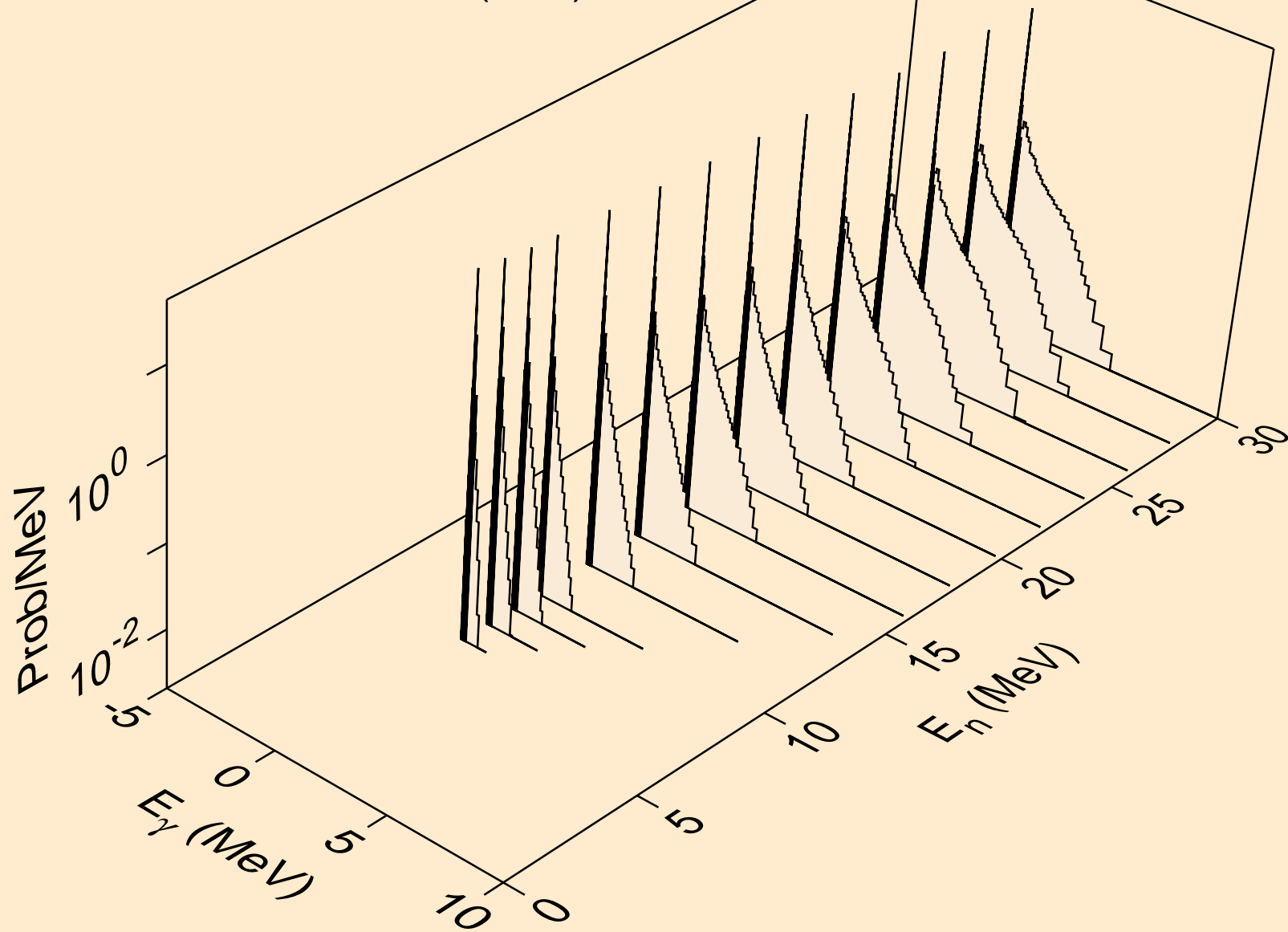




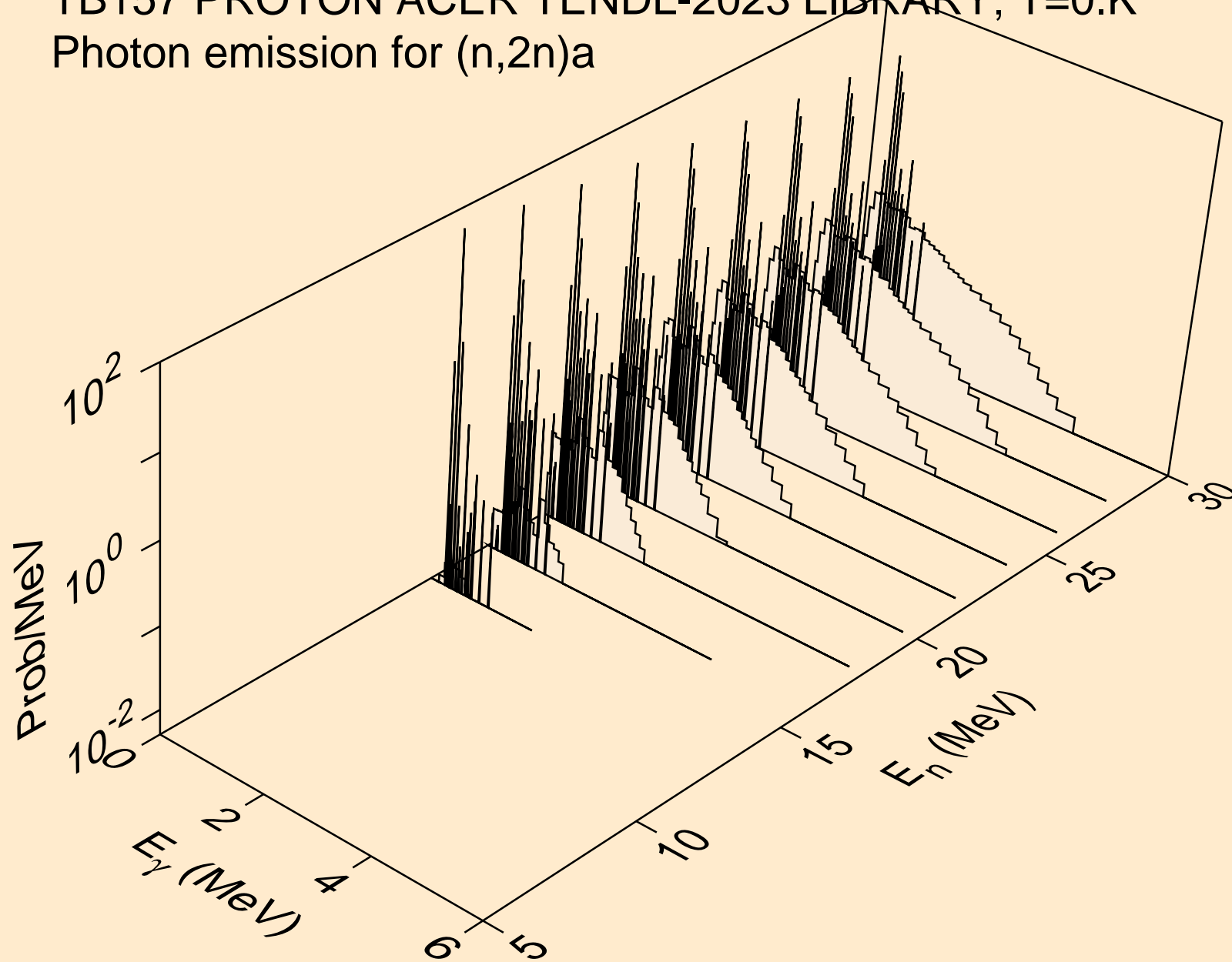
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Photon emission for (n,3n)



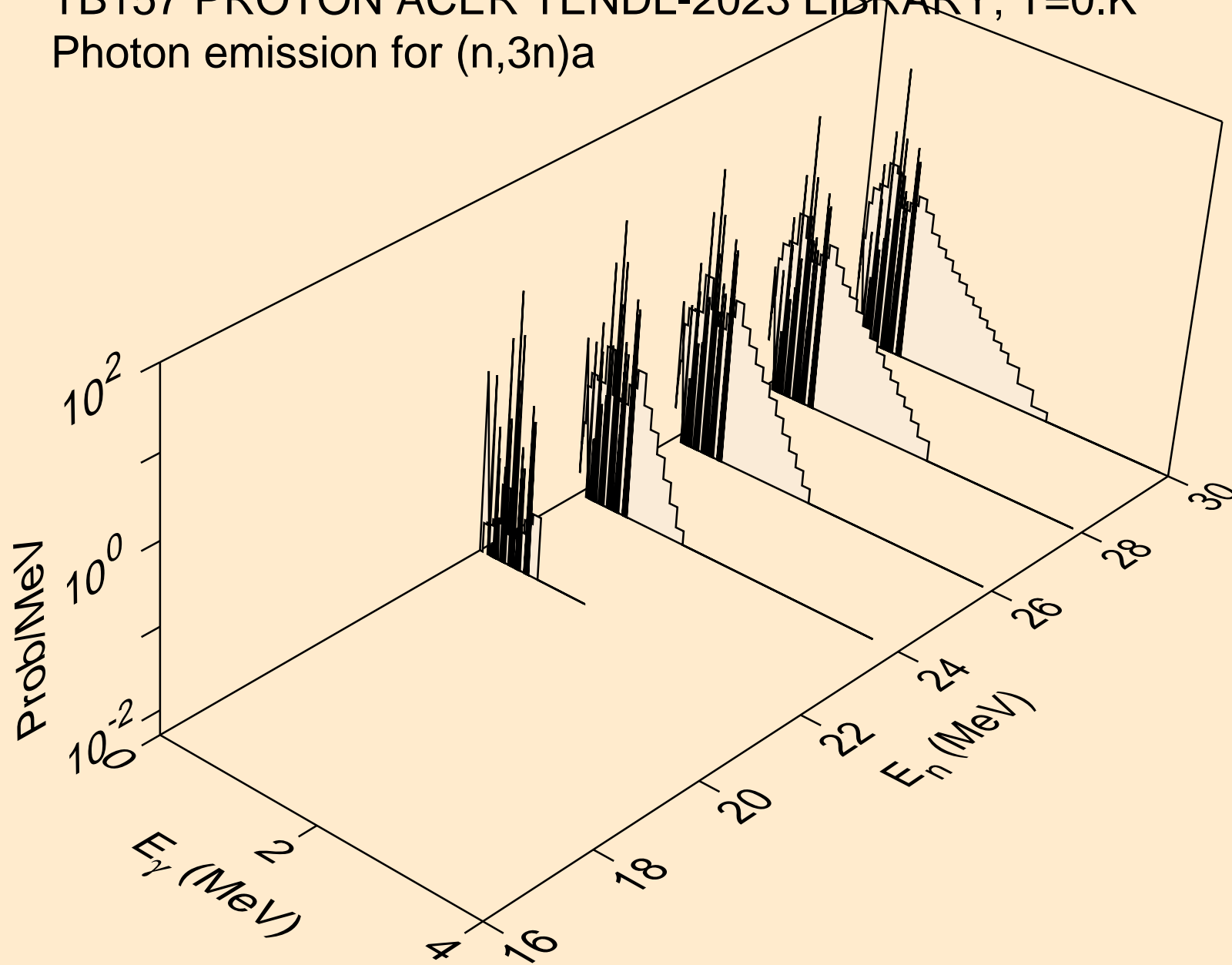
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



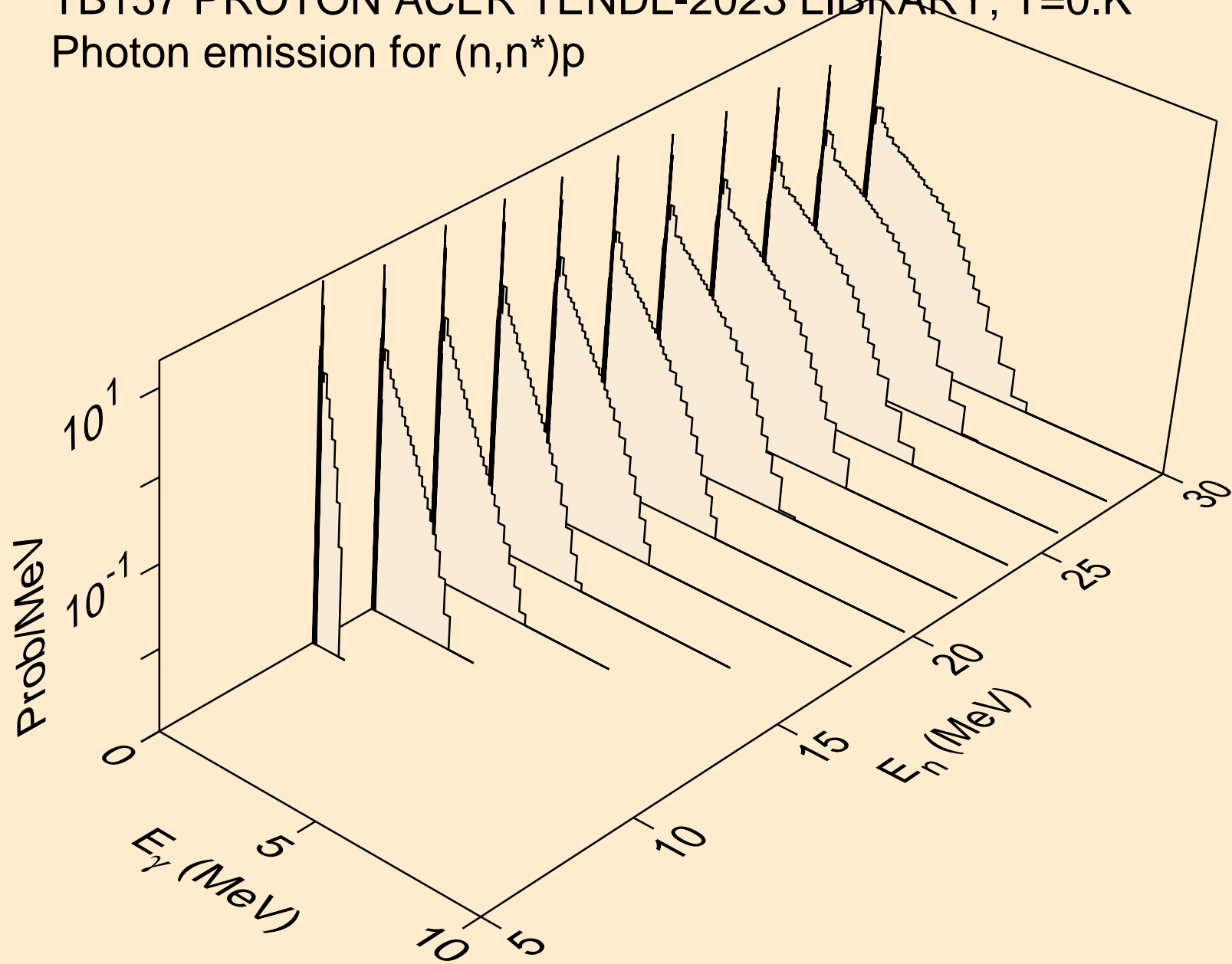
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Photon emission for (n,2n)a



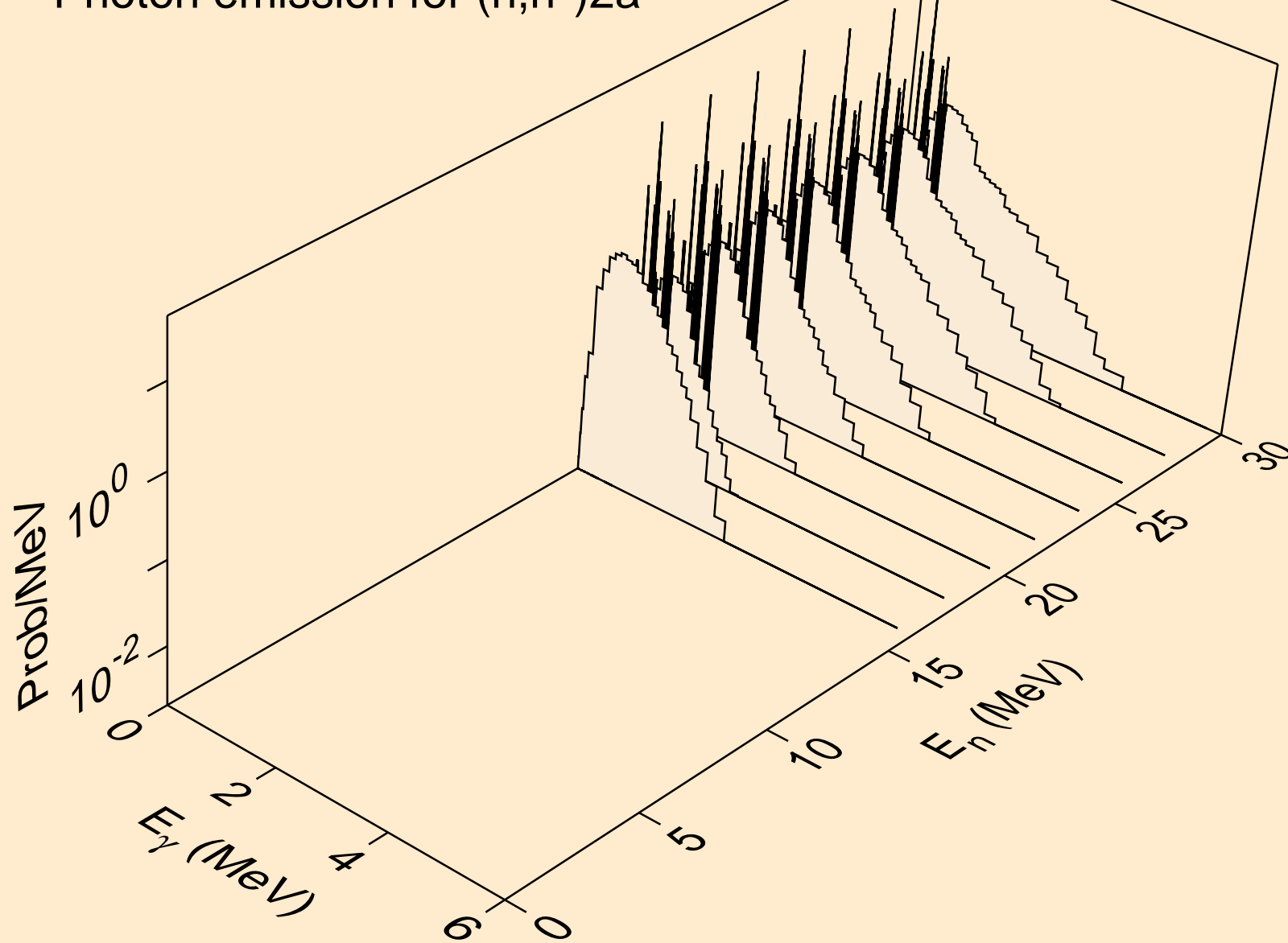
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Photon emission for (n,3n)a



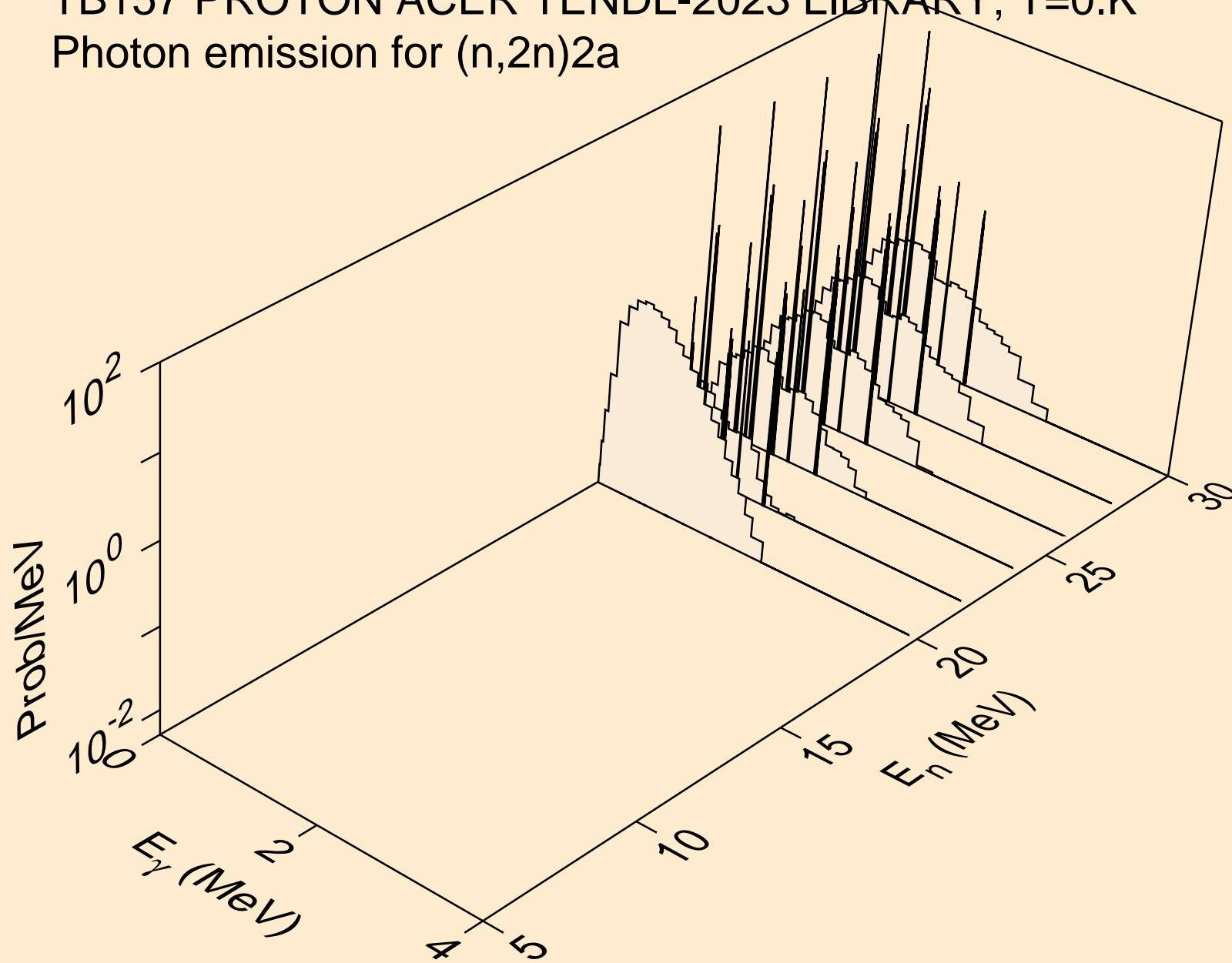
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Photon emission for (n,n\*)p



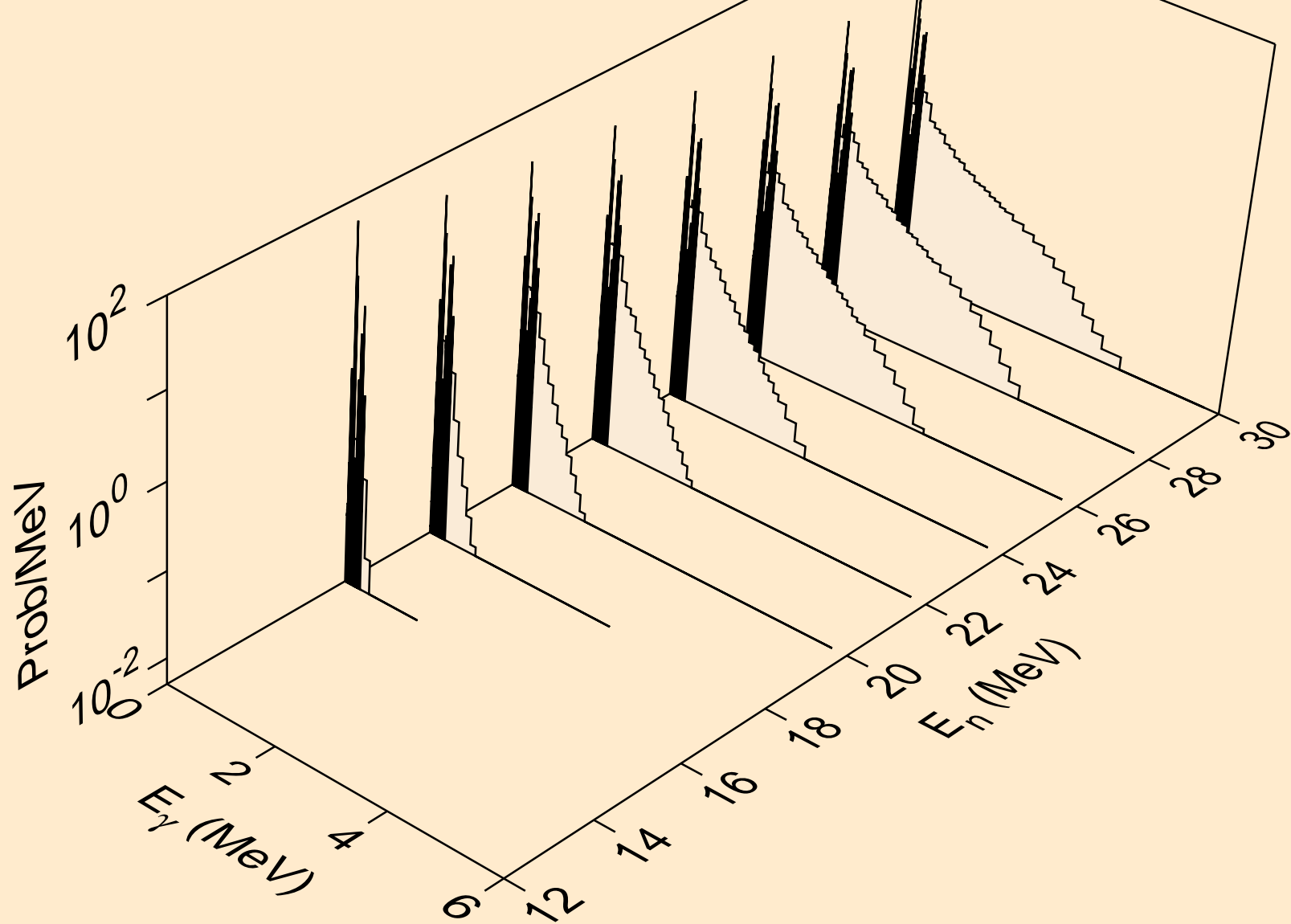
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a

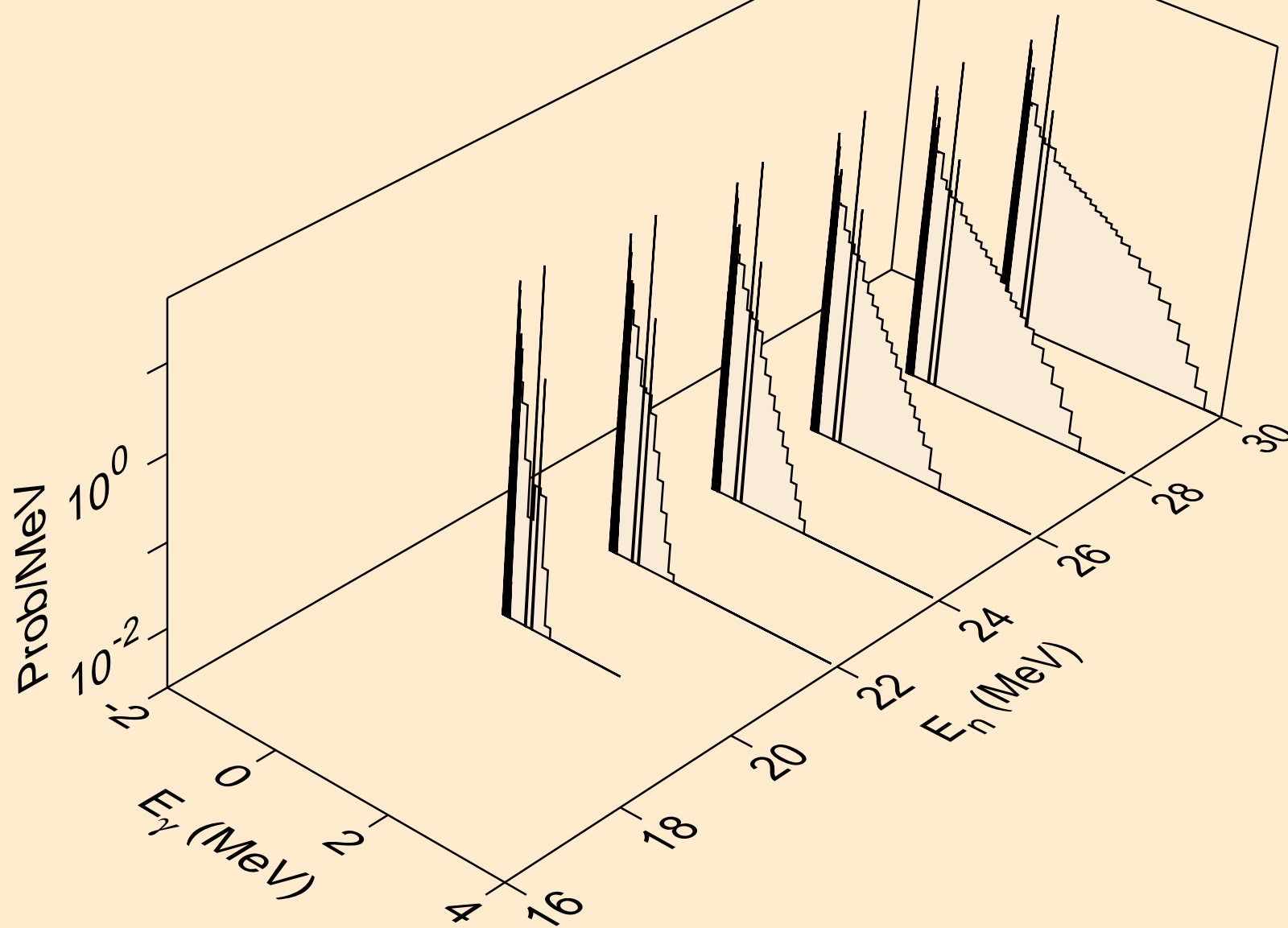


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

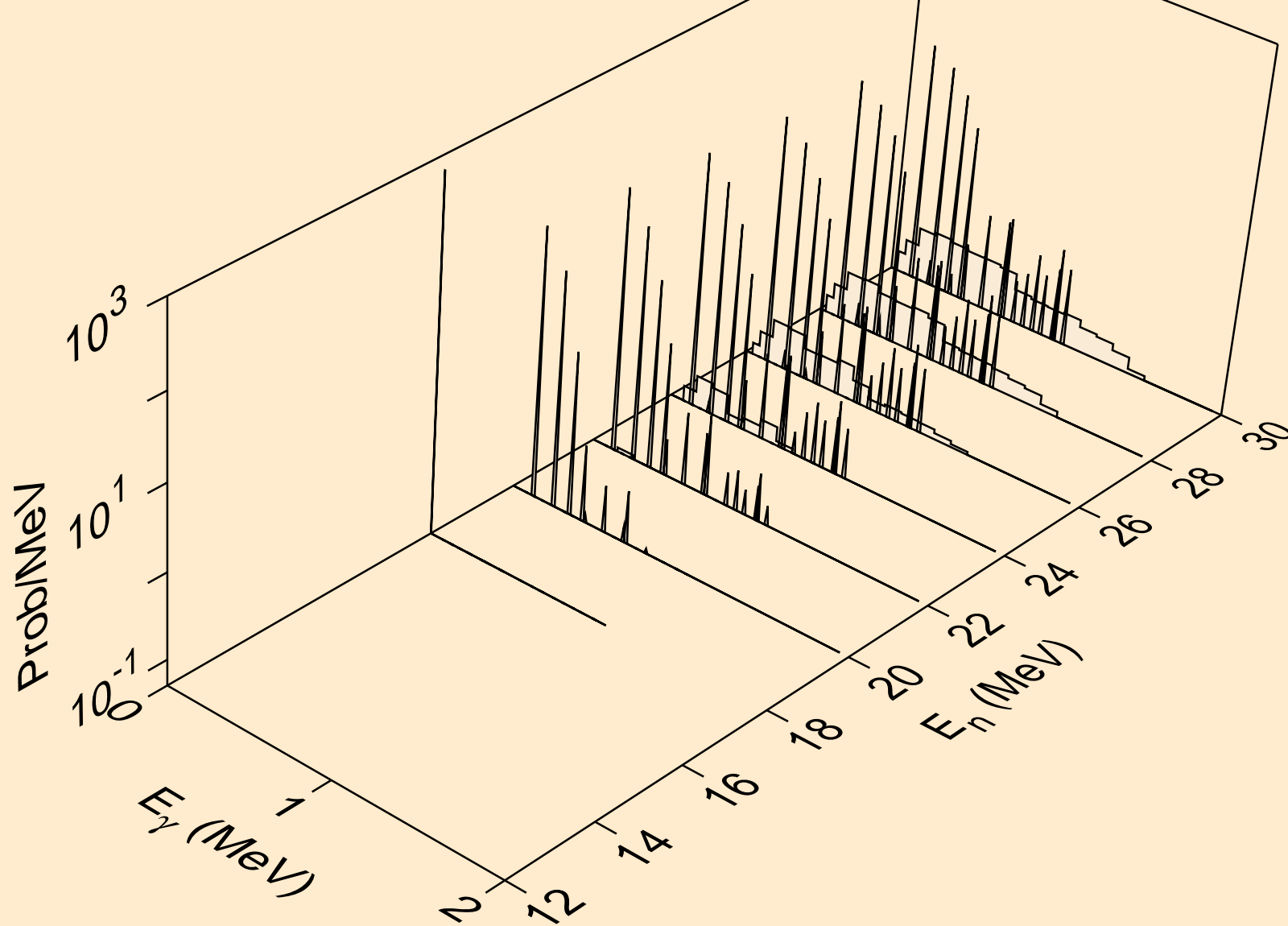




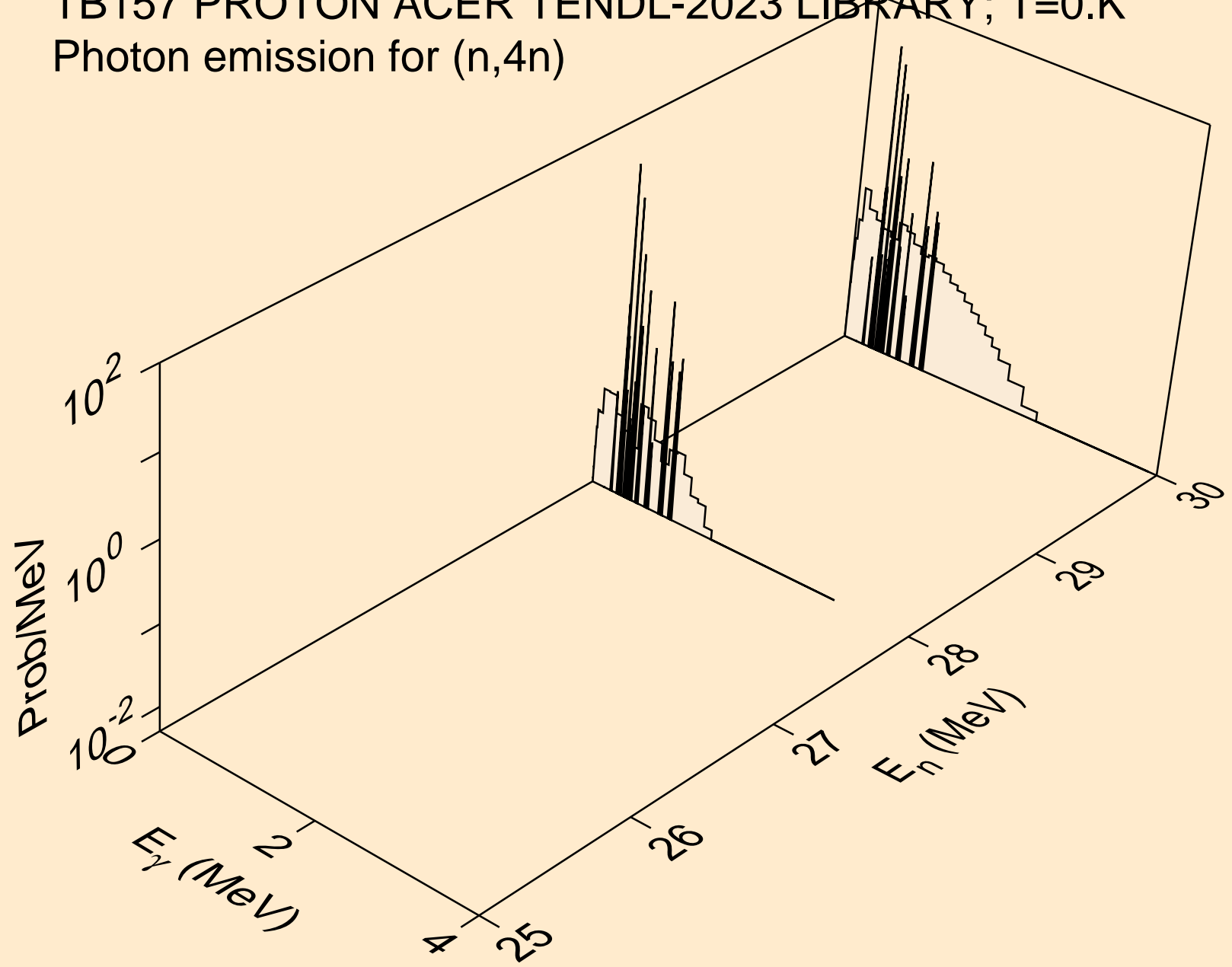
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



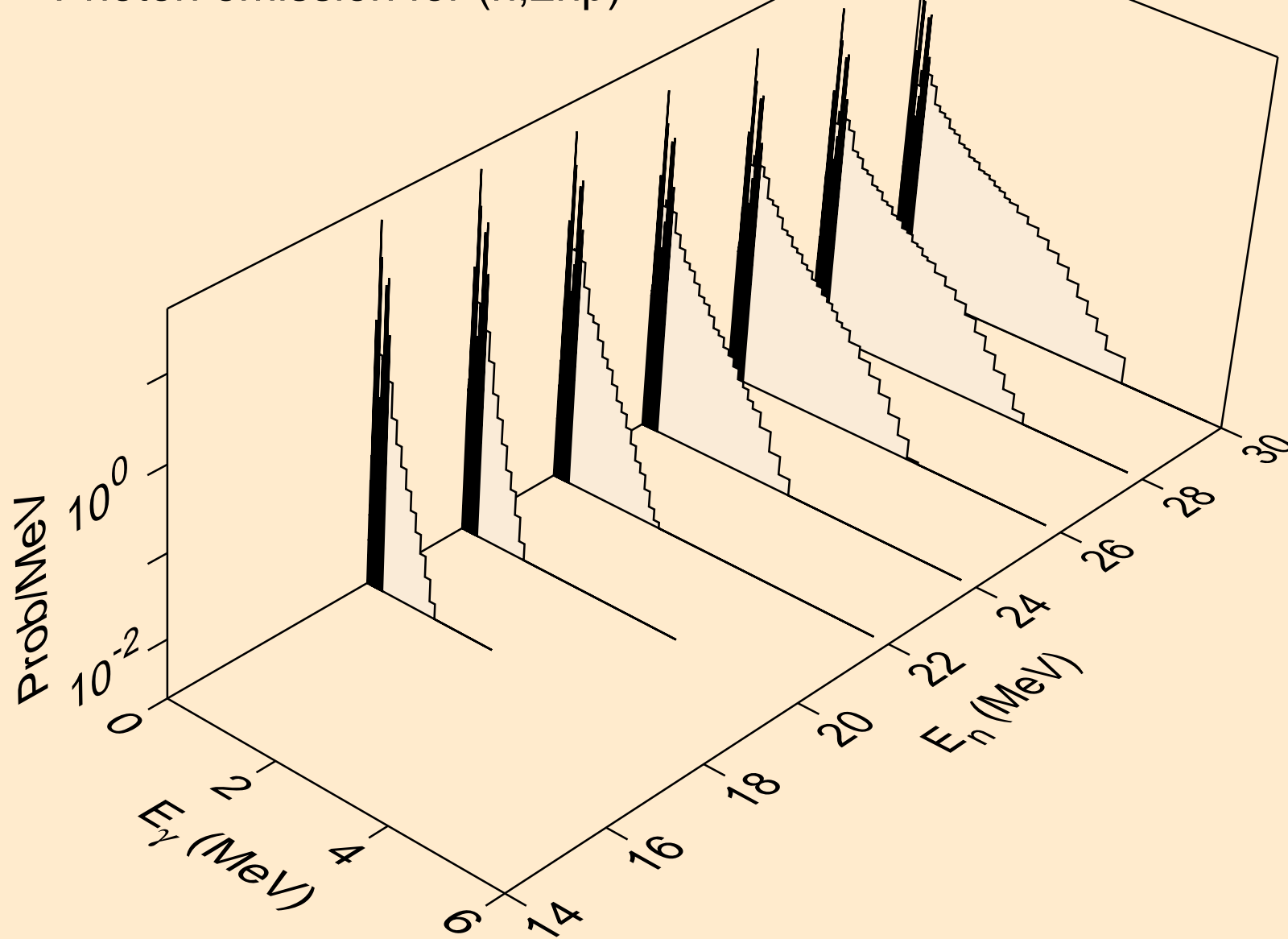
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Photon emission for (n,n\*)he3



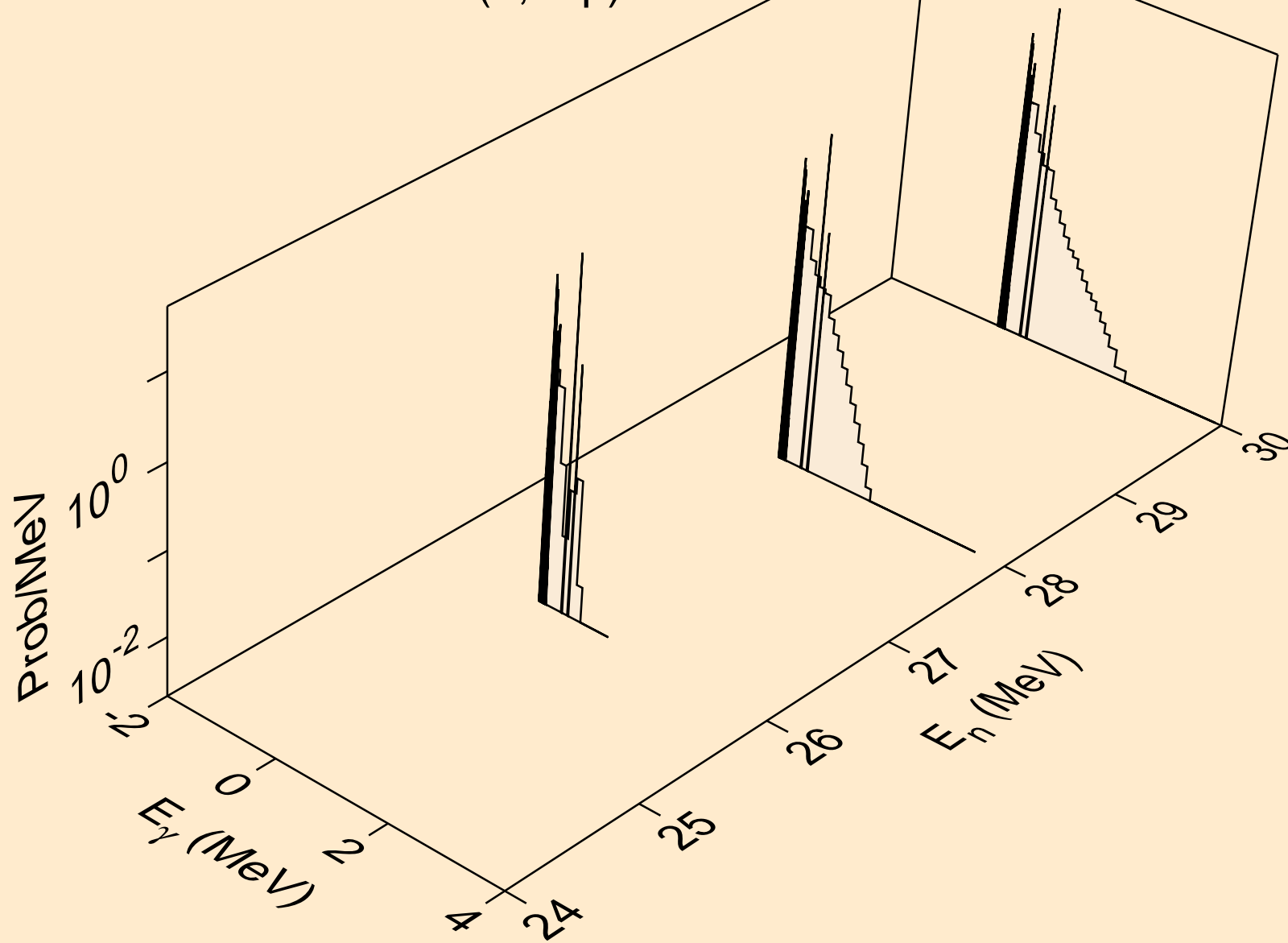
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Photon emission for (n,4n)



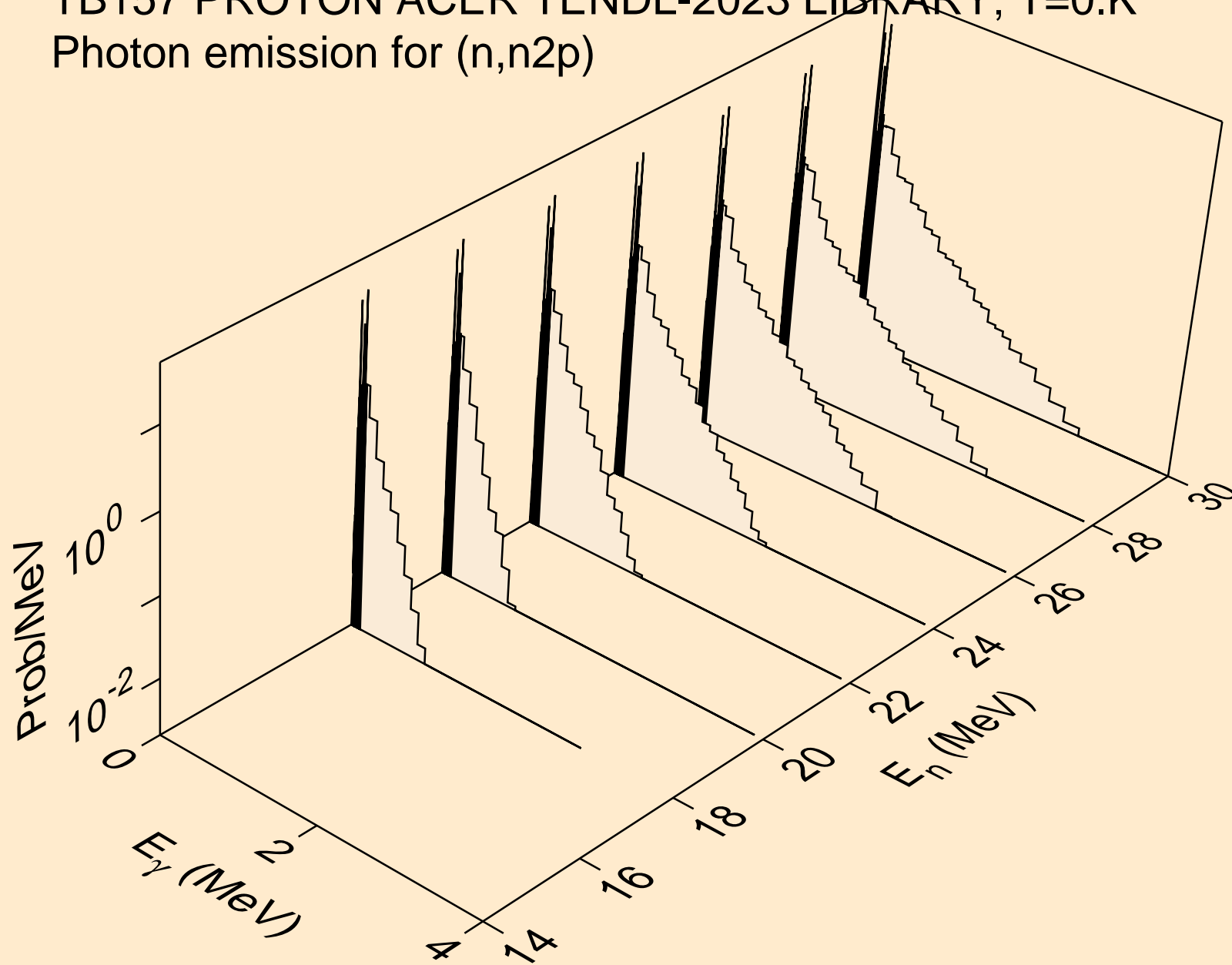
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Photon emission for (n,2np)



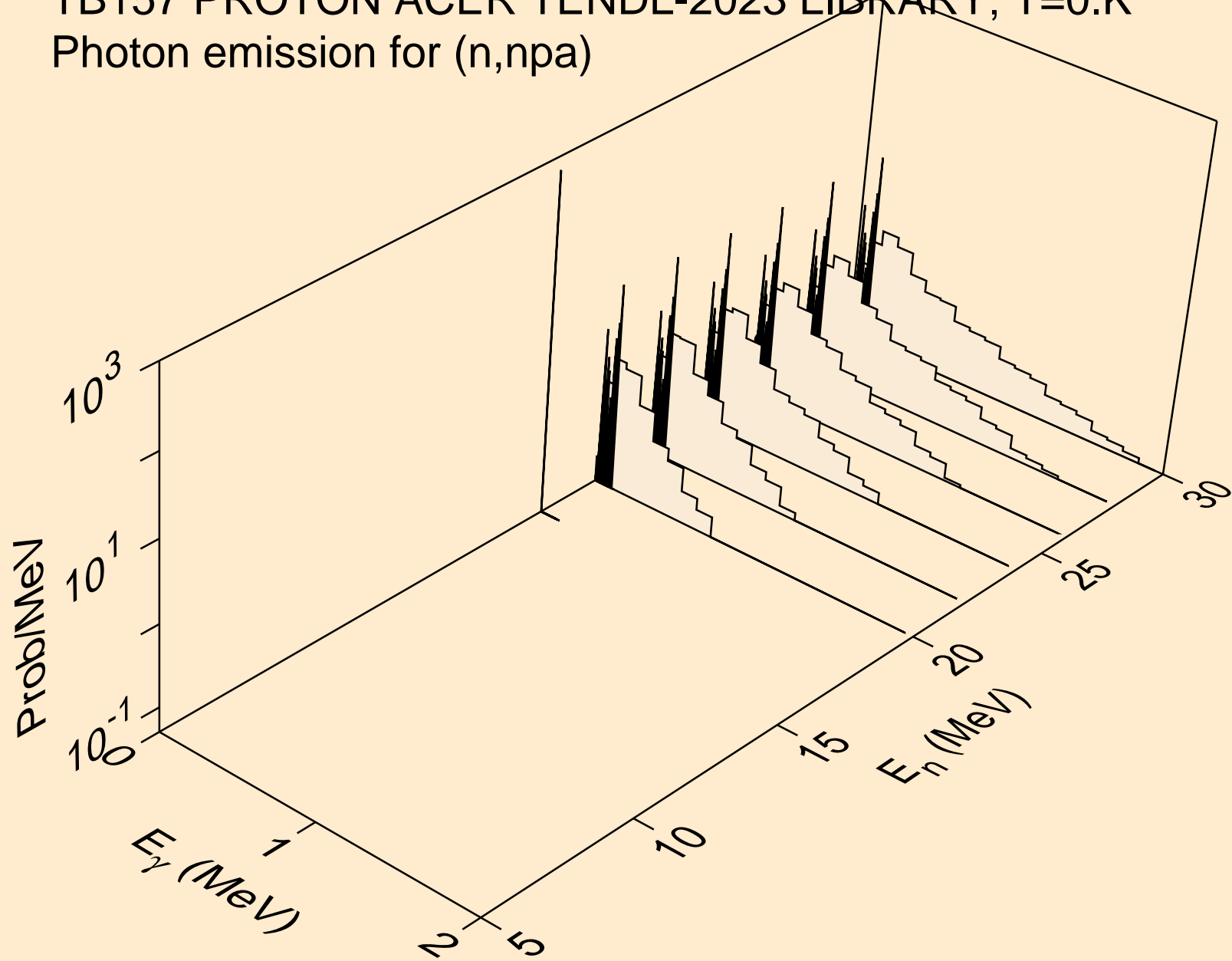
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Photon emission for (n,3np)



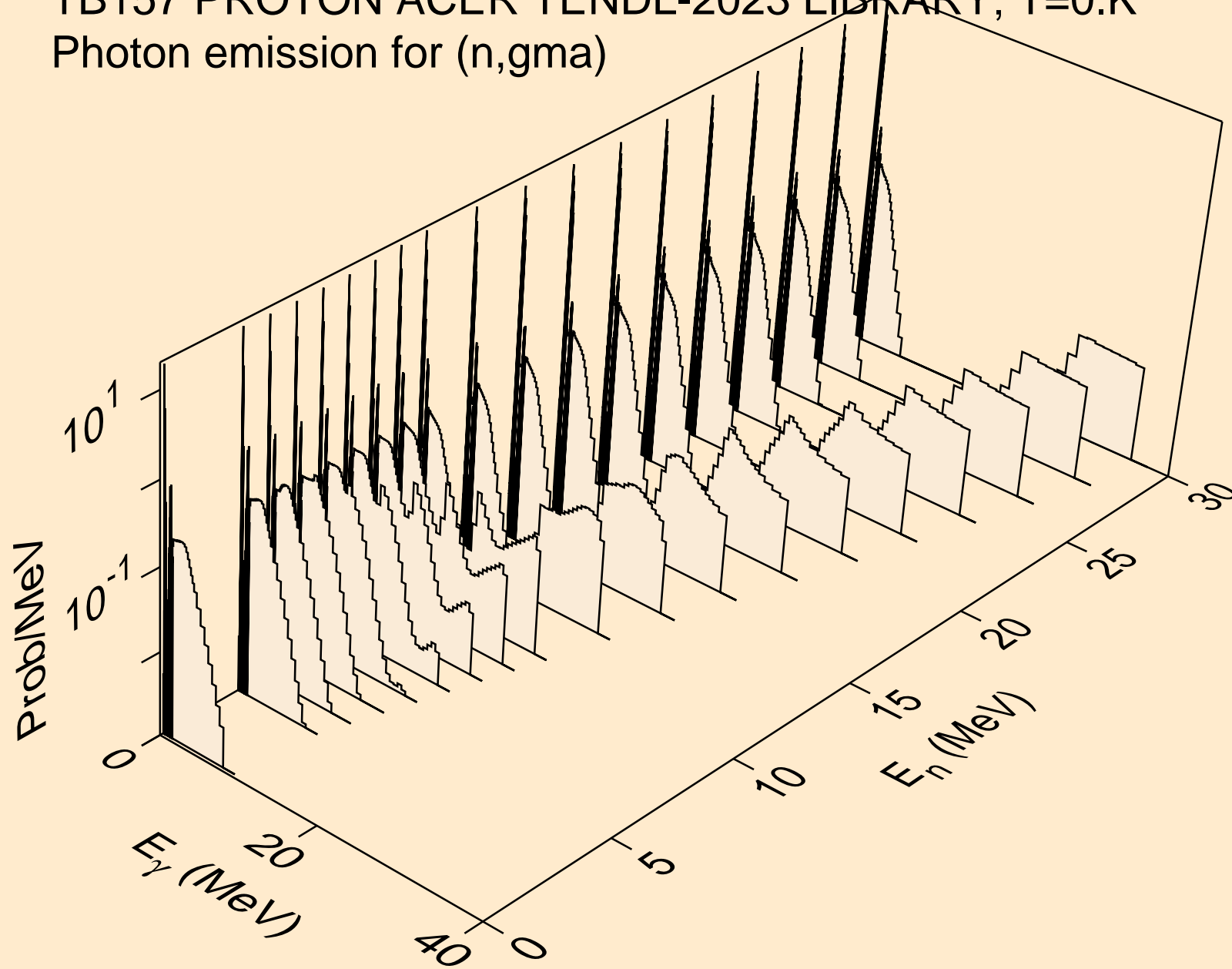
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

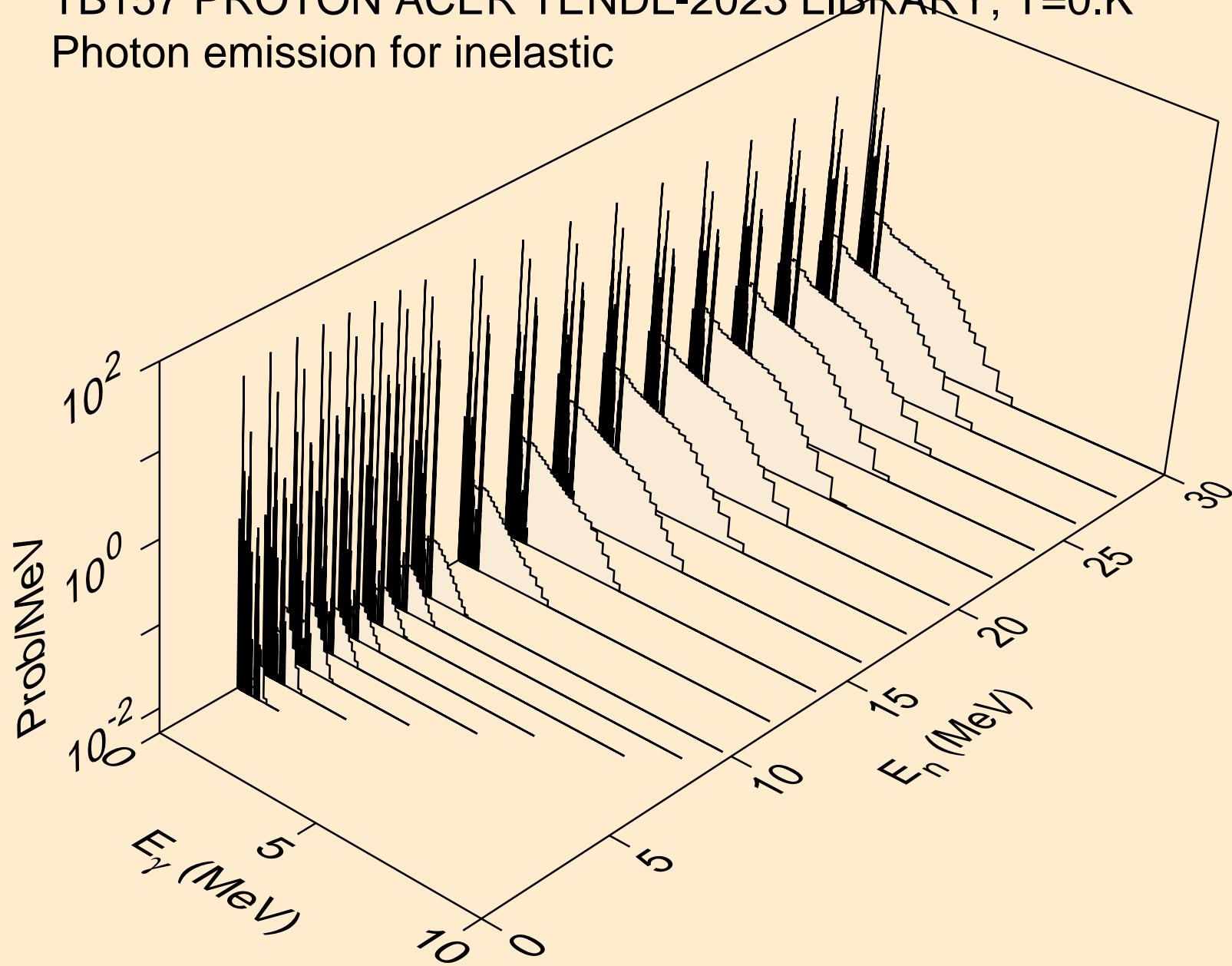


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Photon emission for (n,gma)

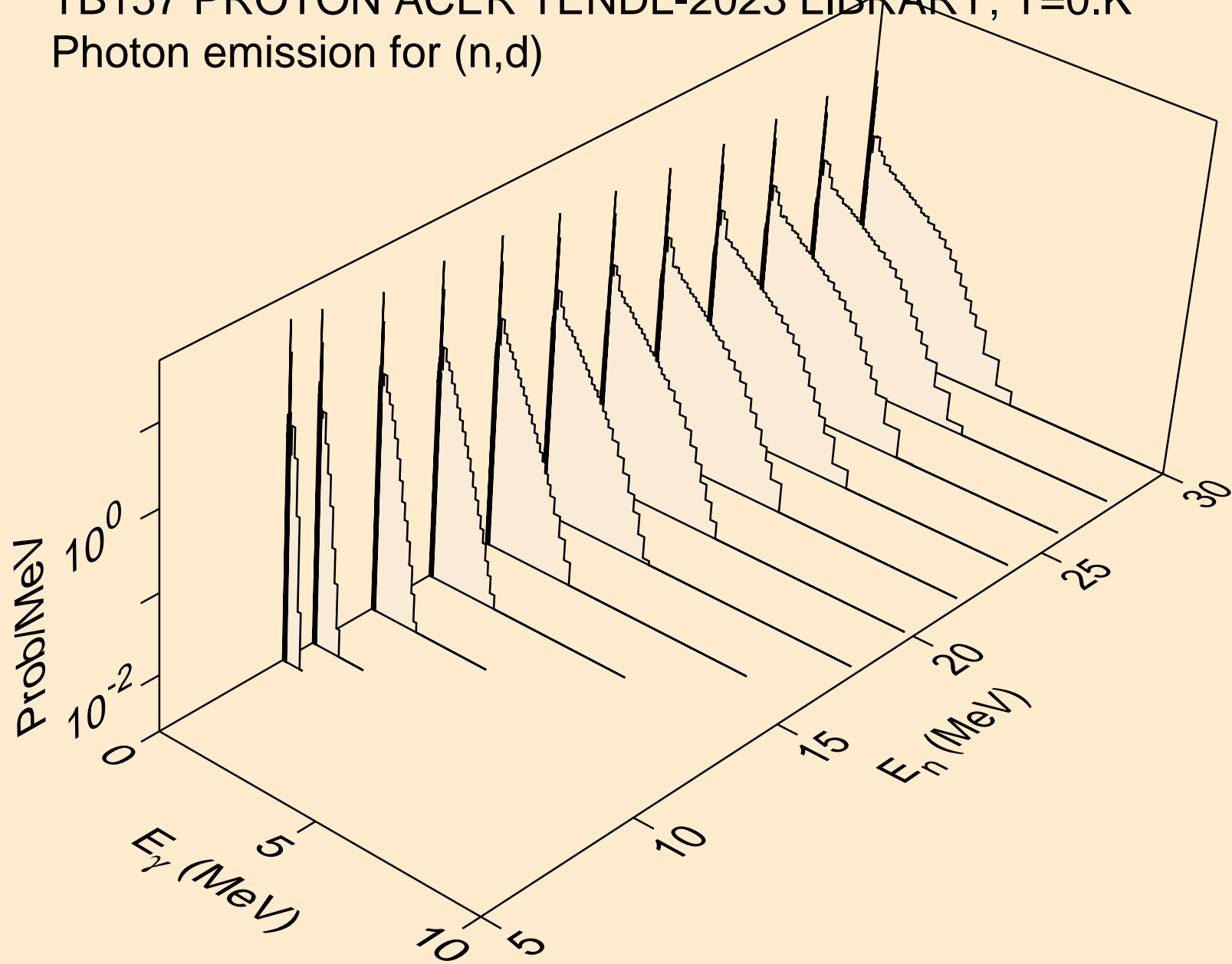




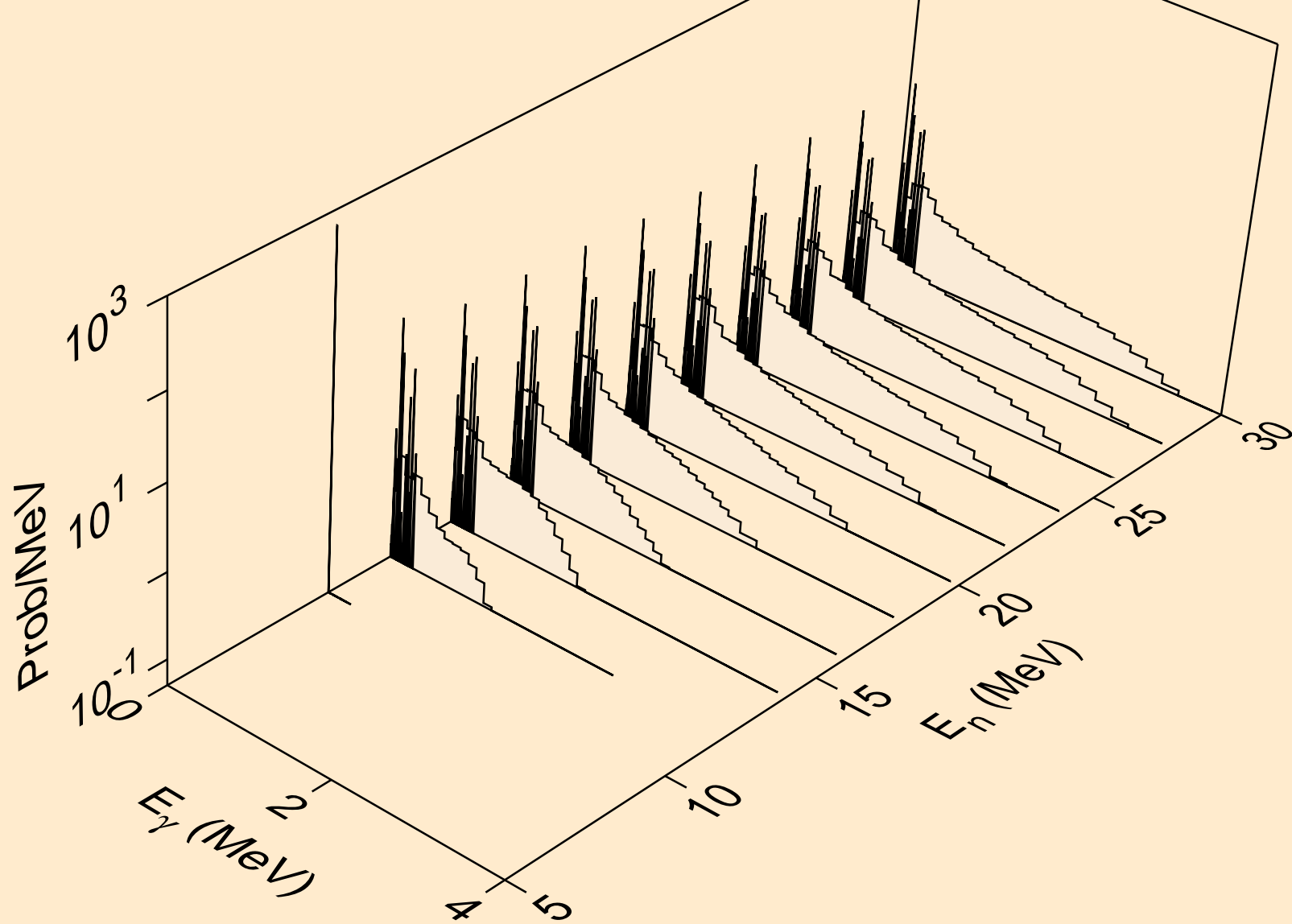
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



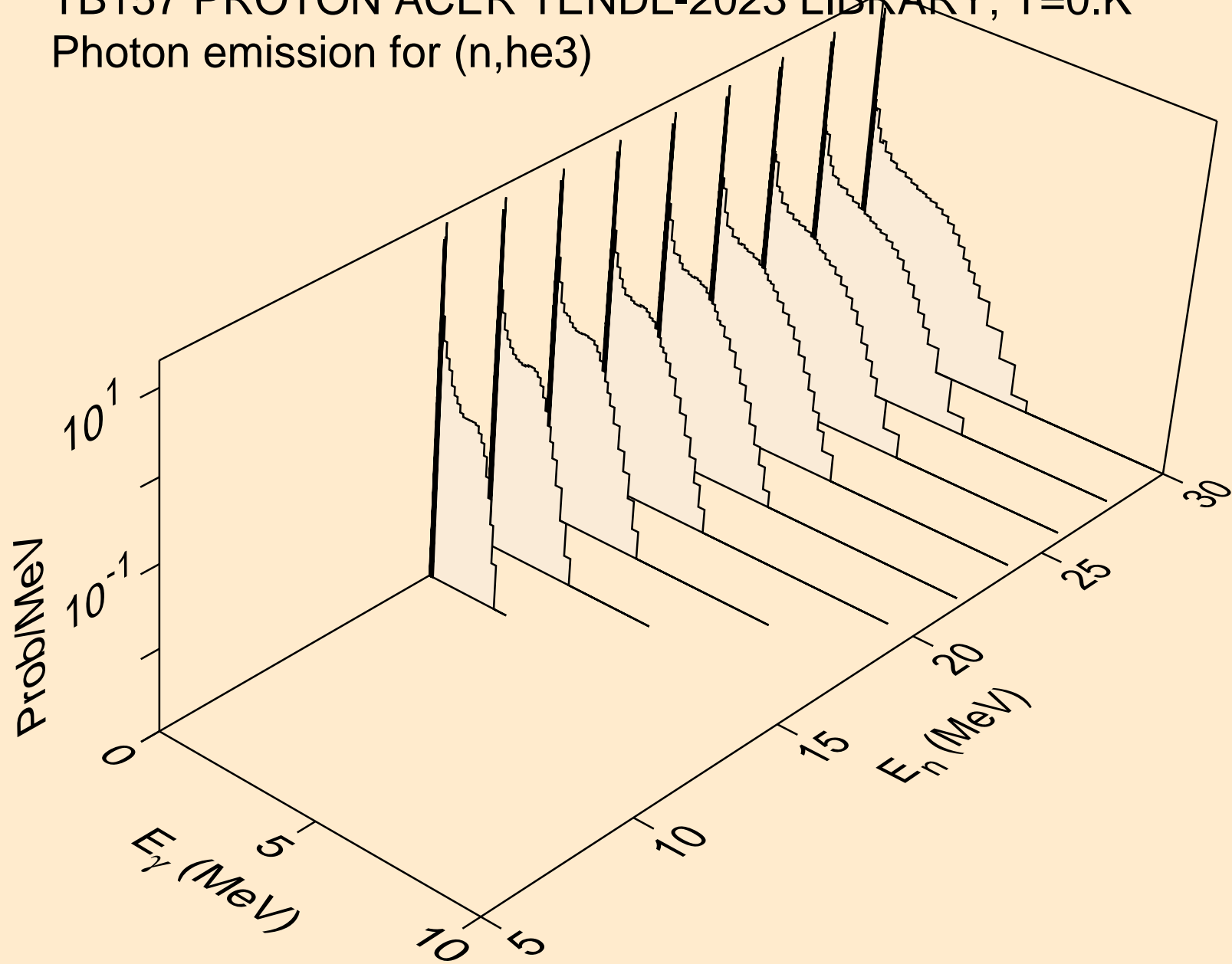
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Photon emission for (n,d)



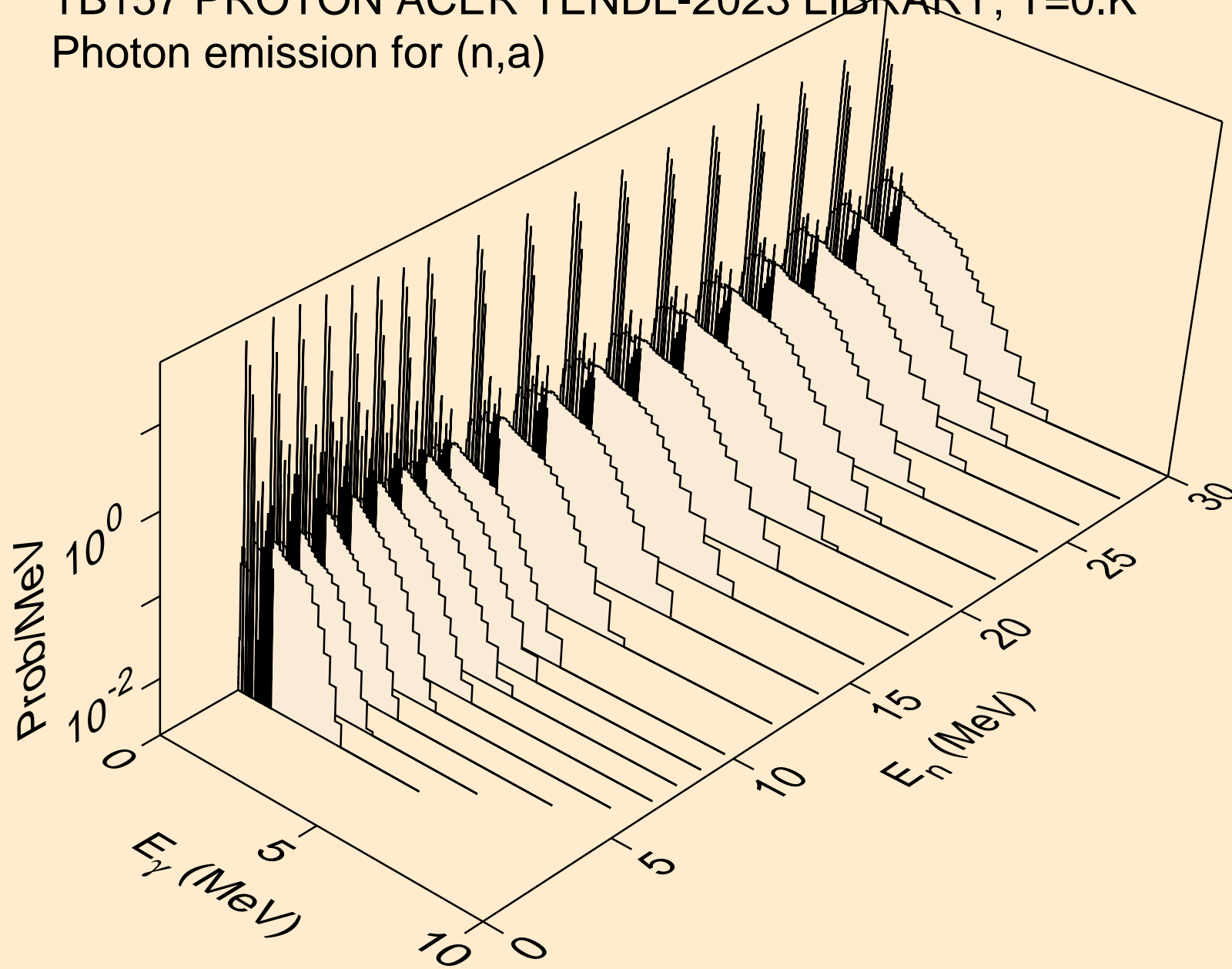
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Photon emission for (n,t)



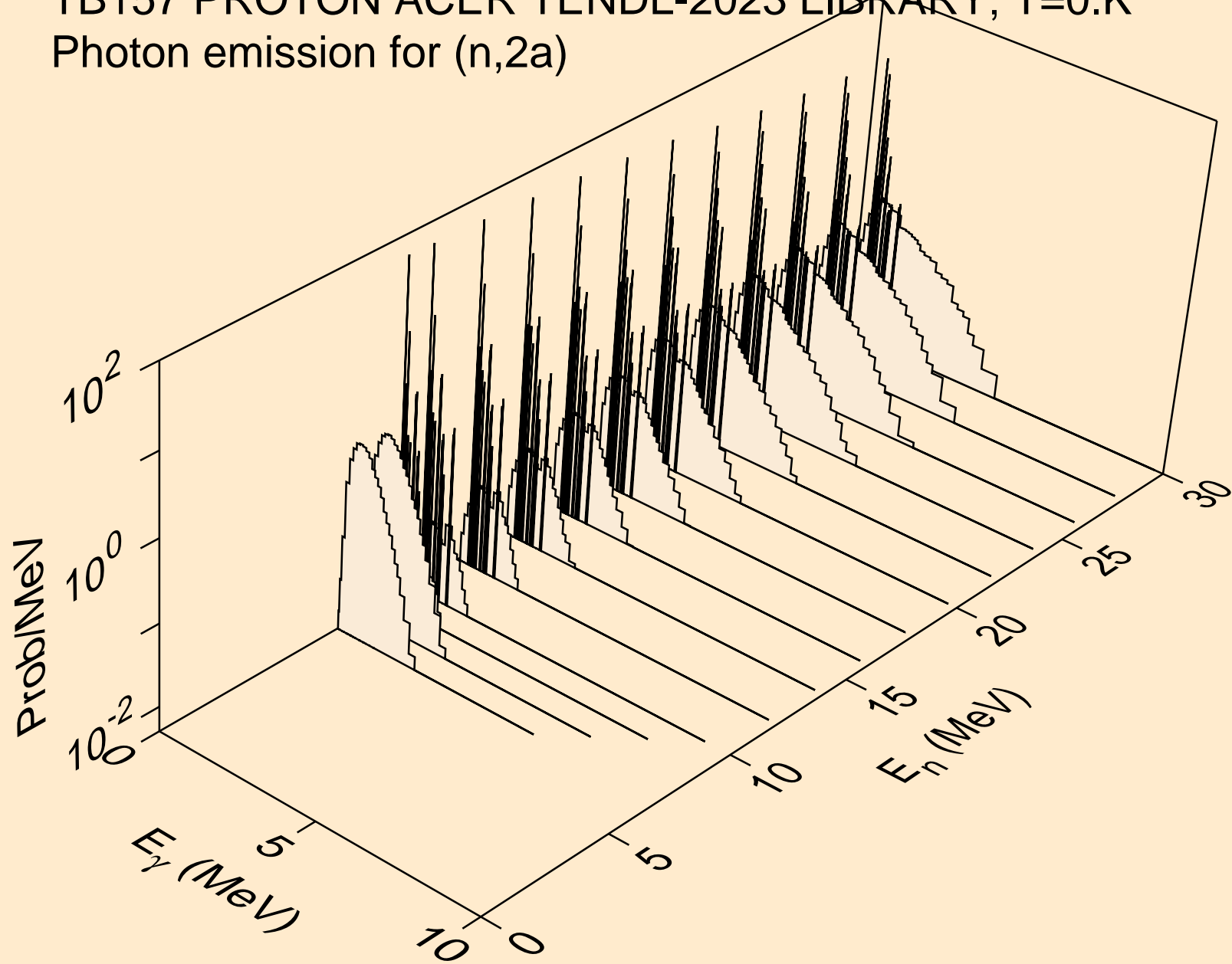
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Photon emission for (n,he3)



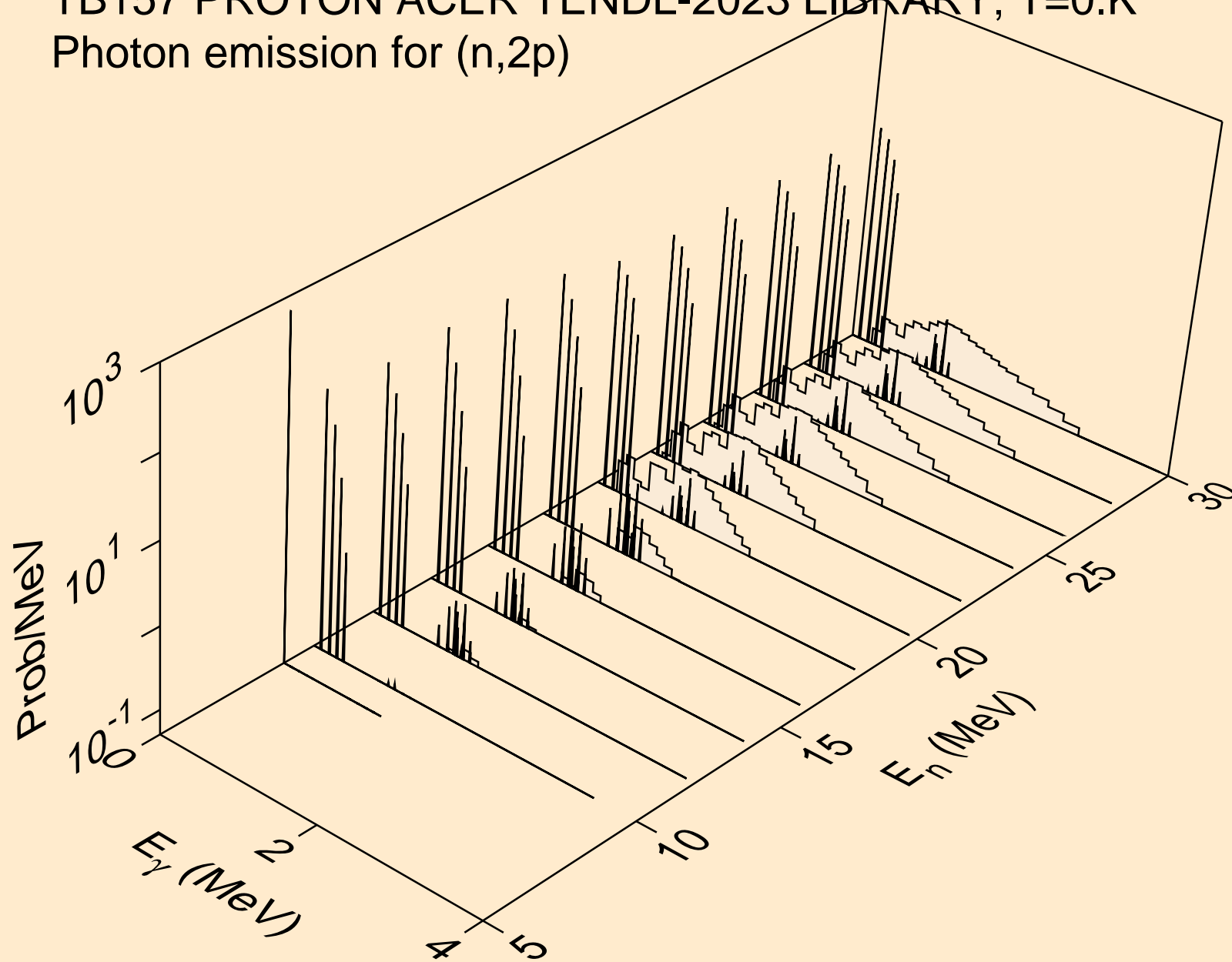
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Photon emission for (n,a)



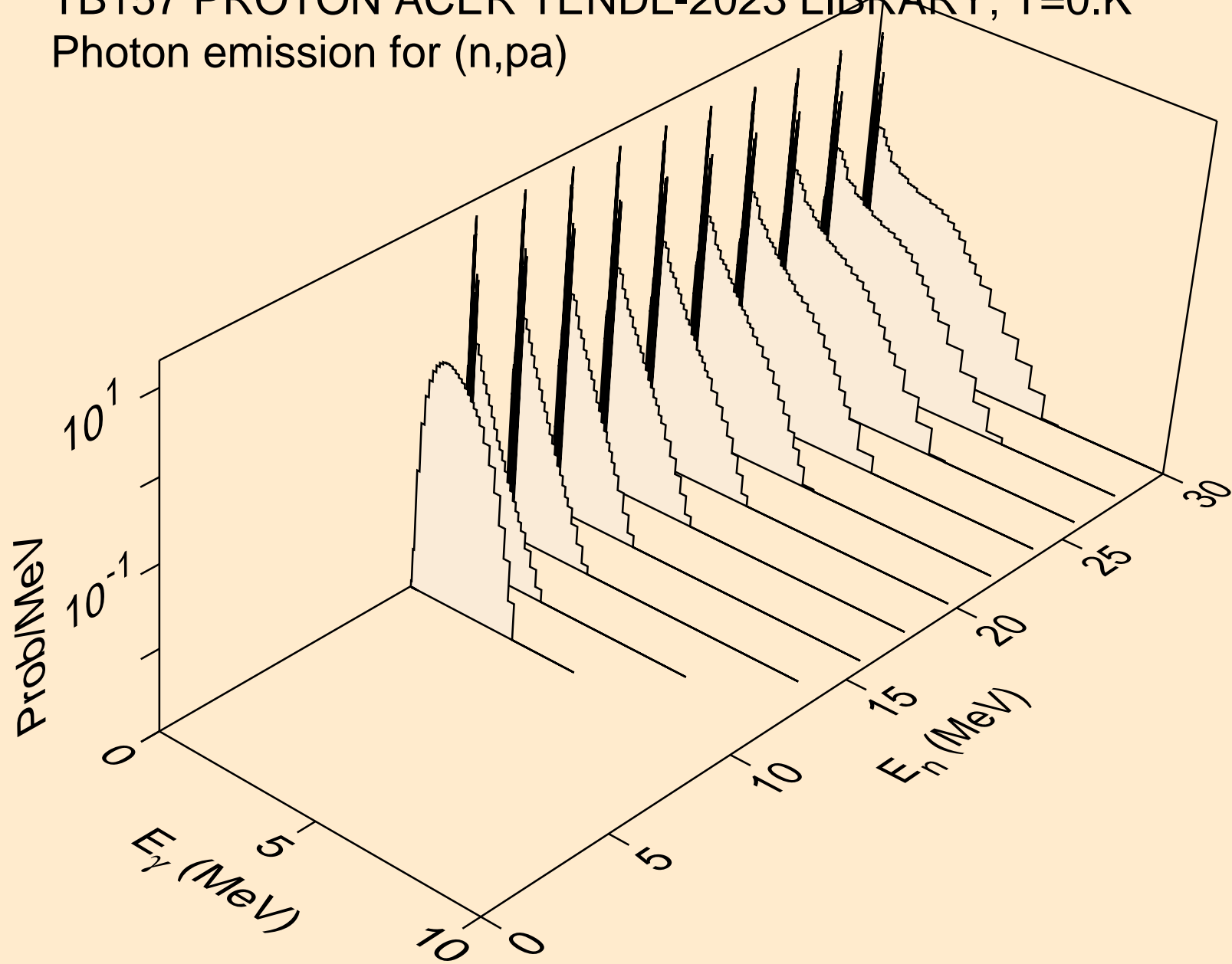
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

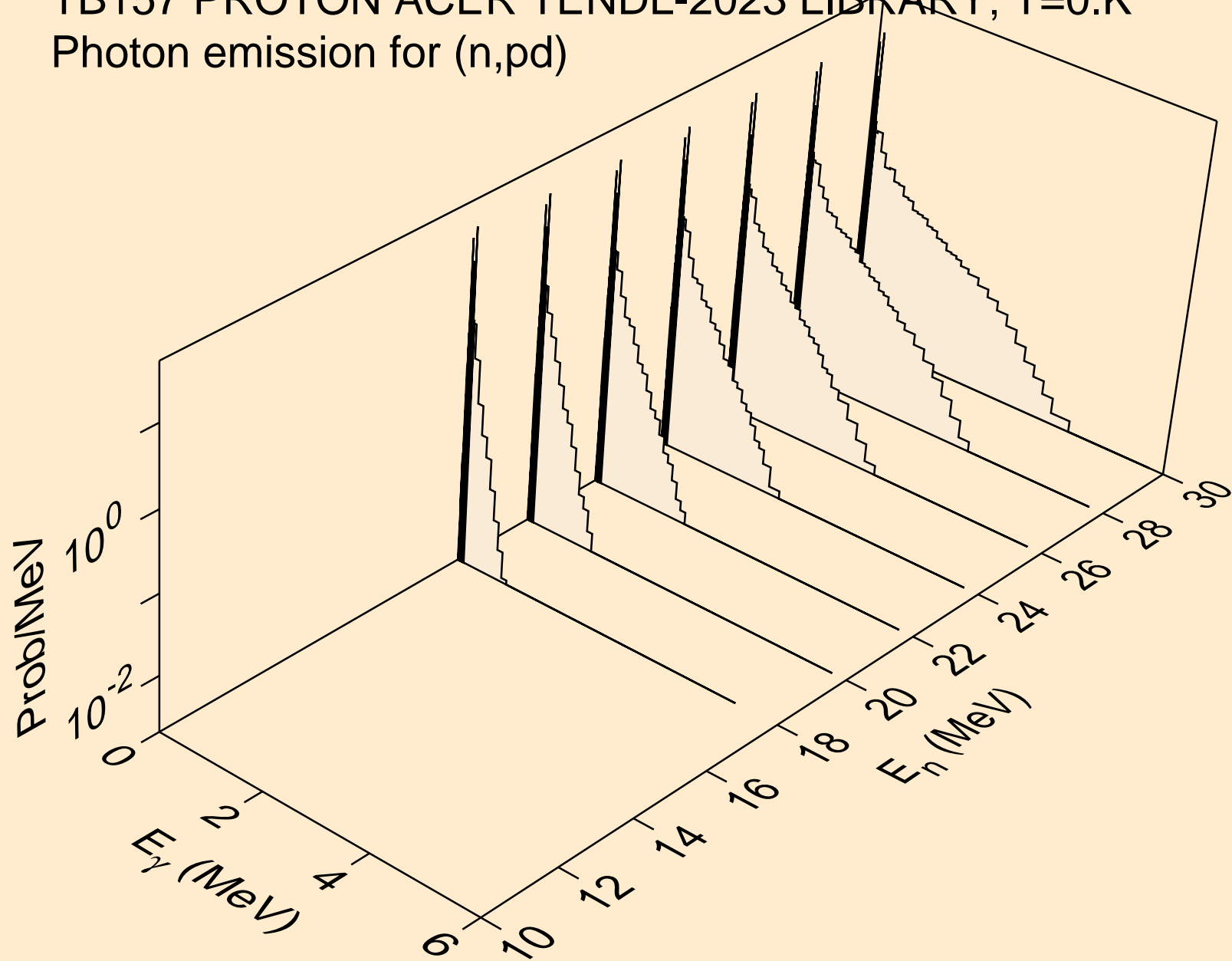


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

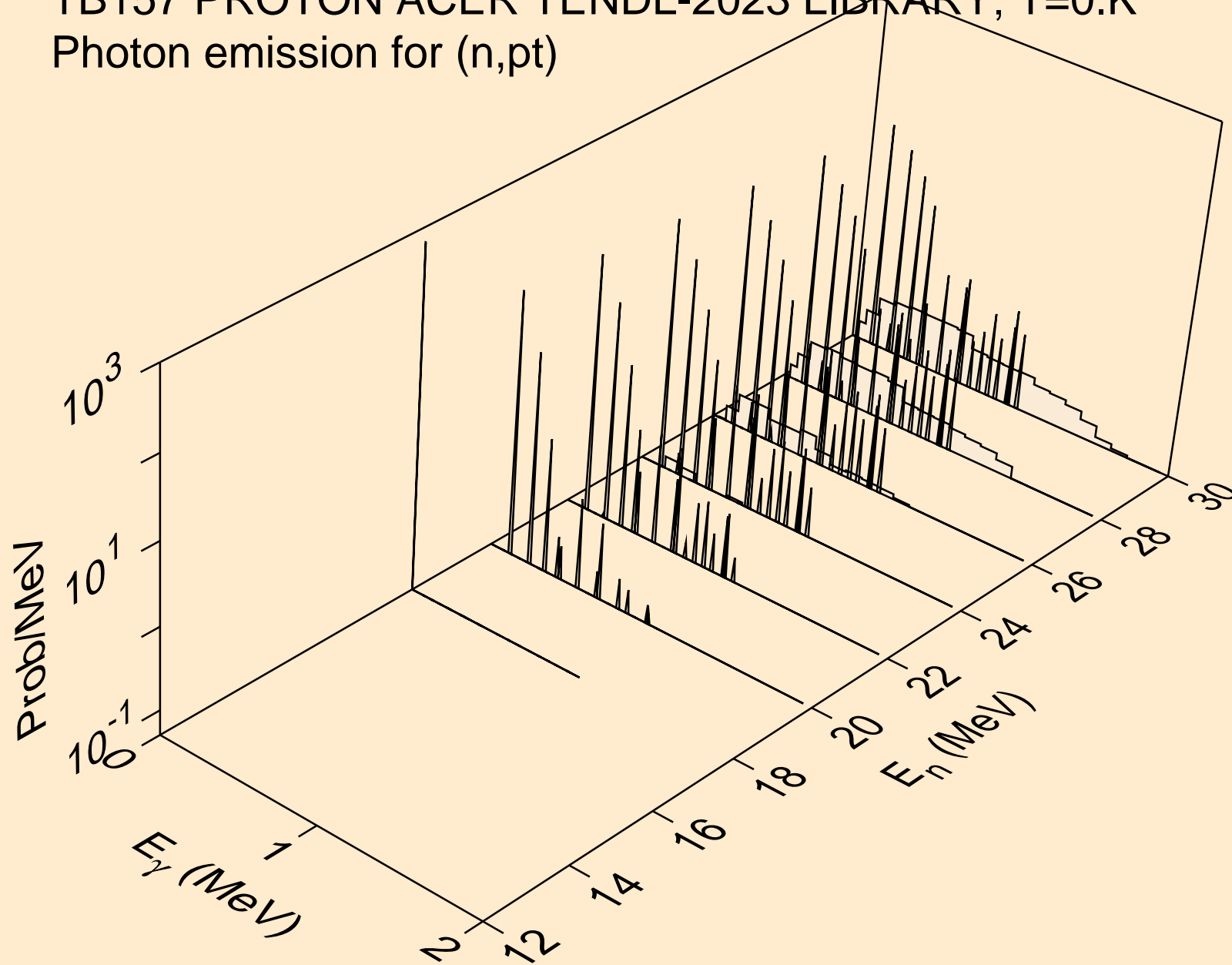




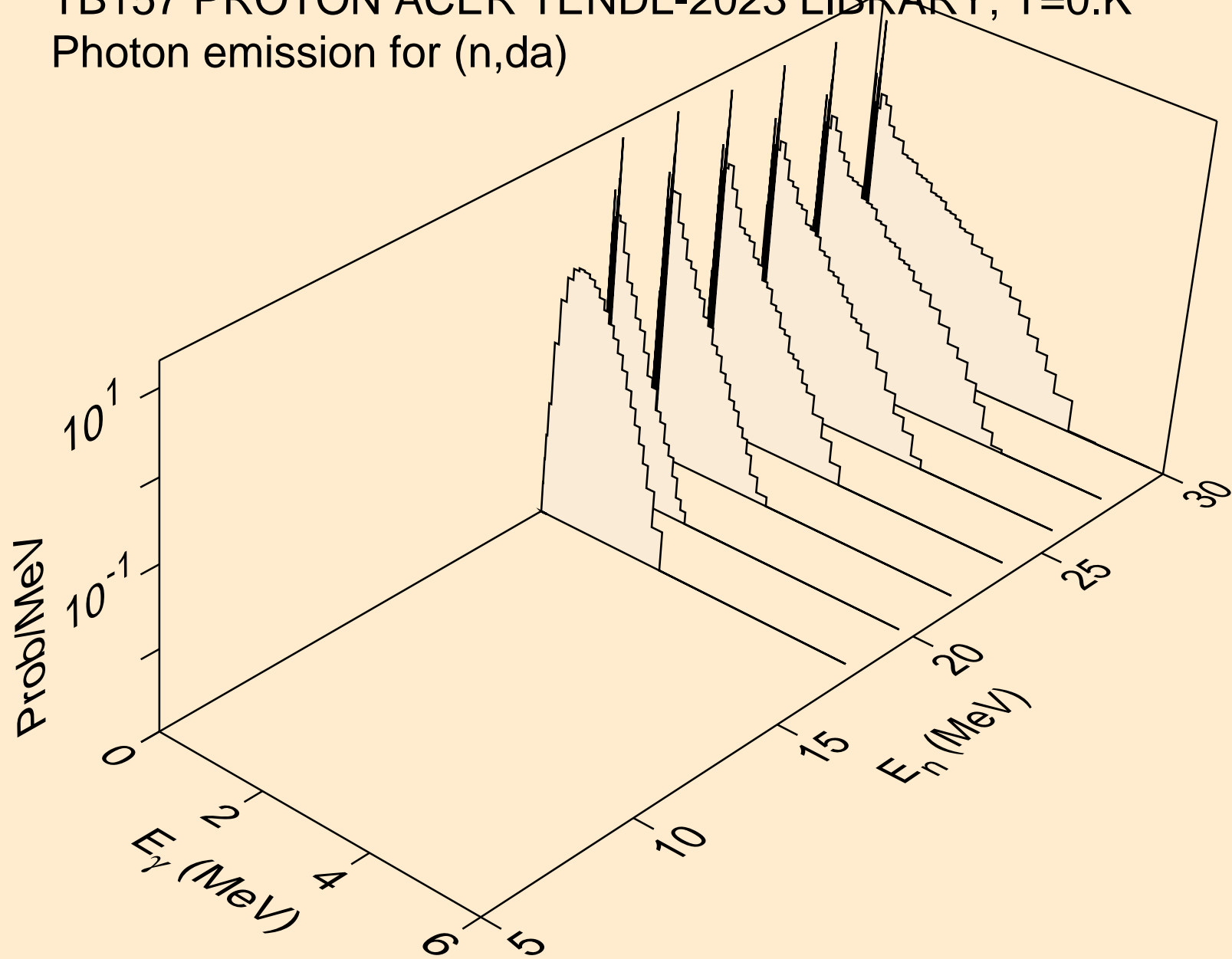
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

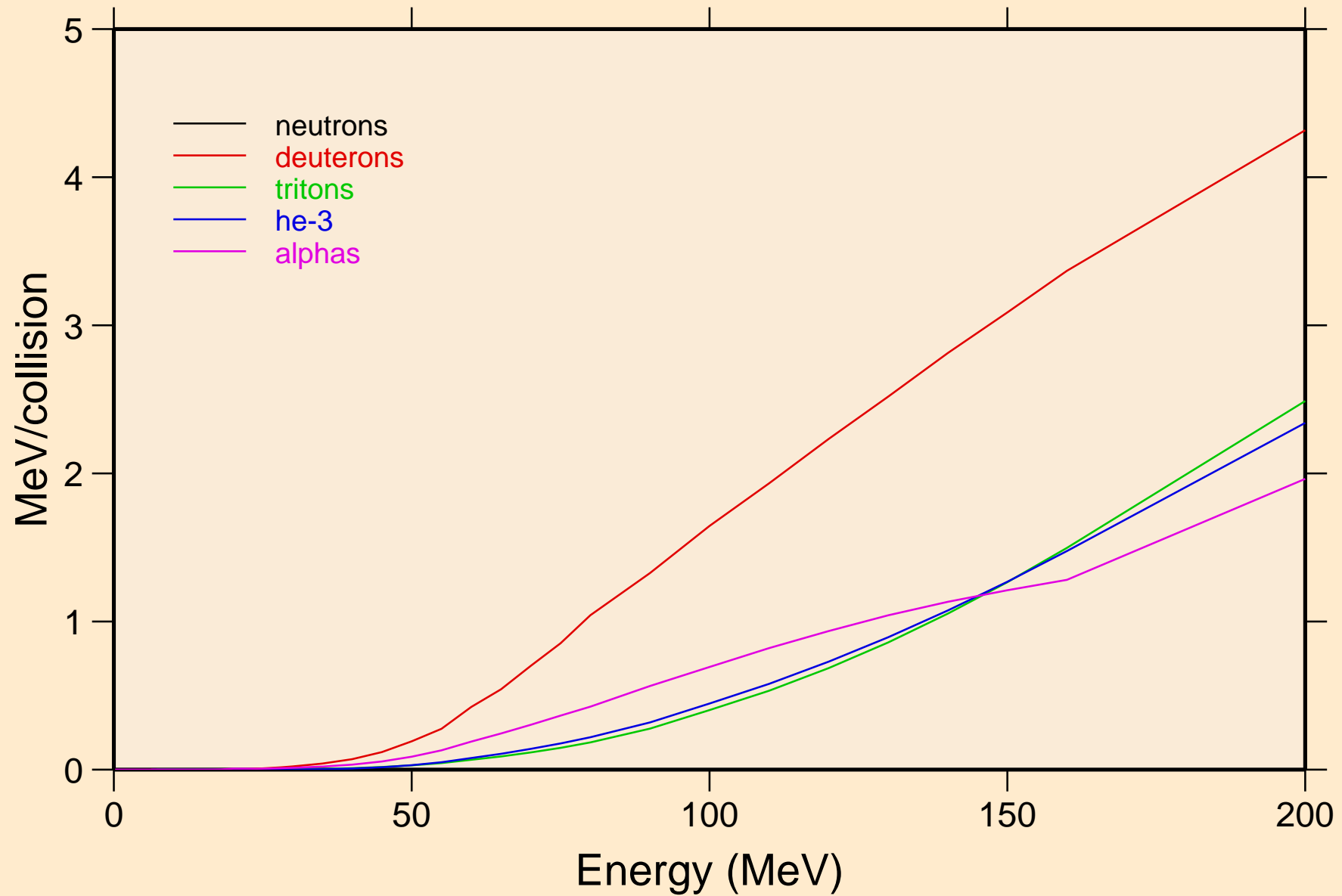


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Photon emission for (n,da)



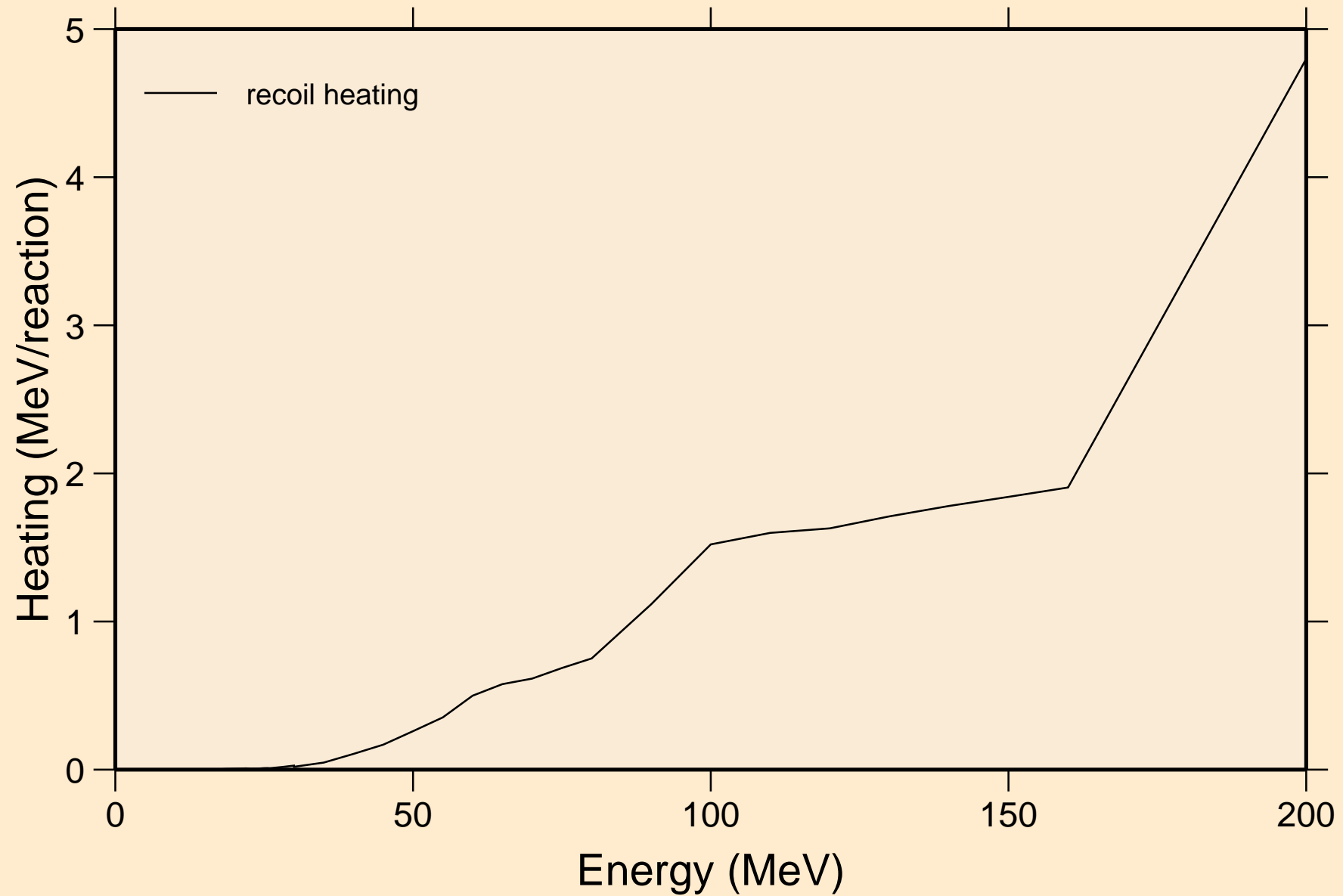
# TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

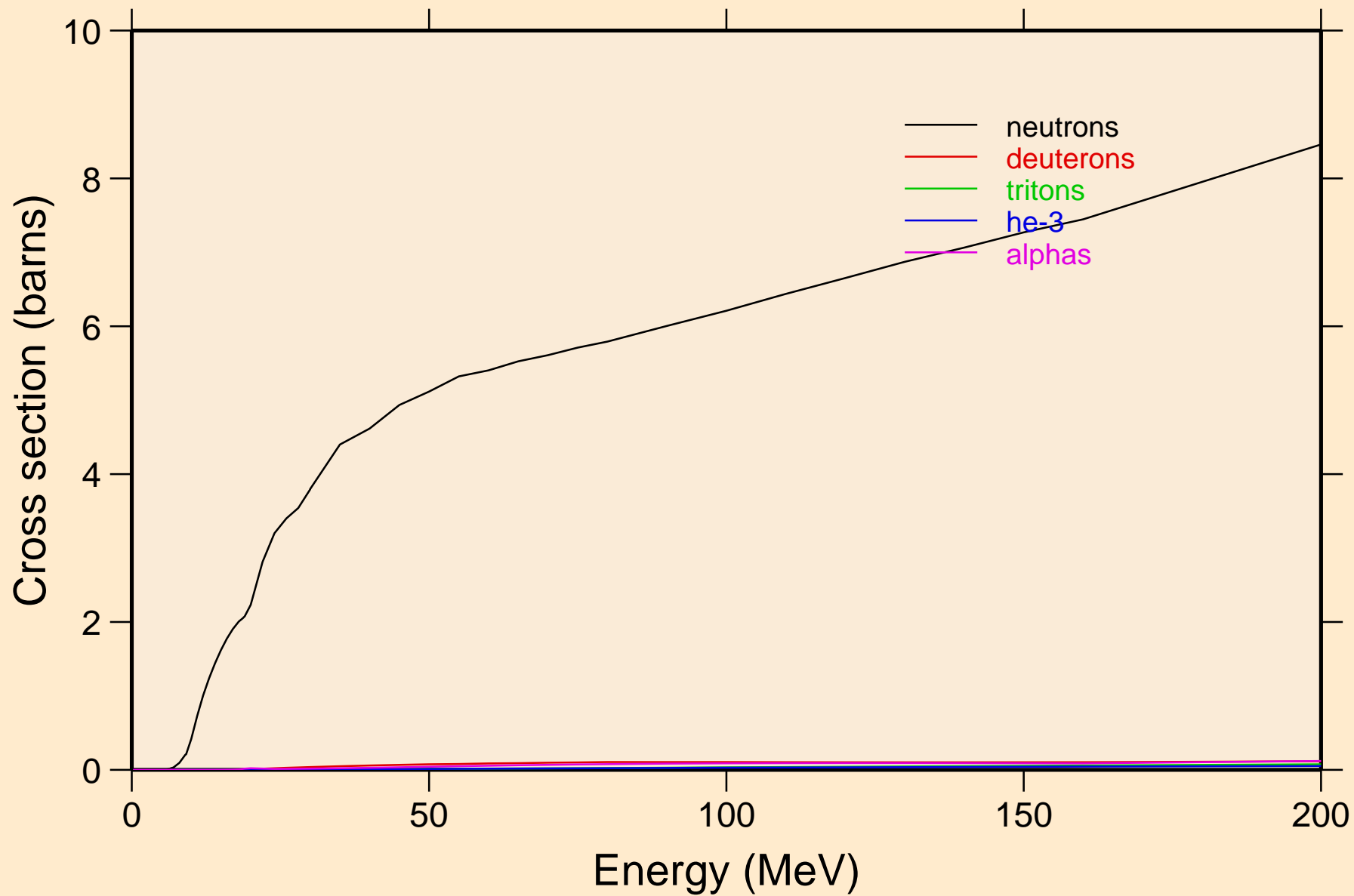


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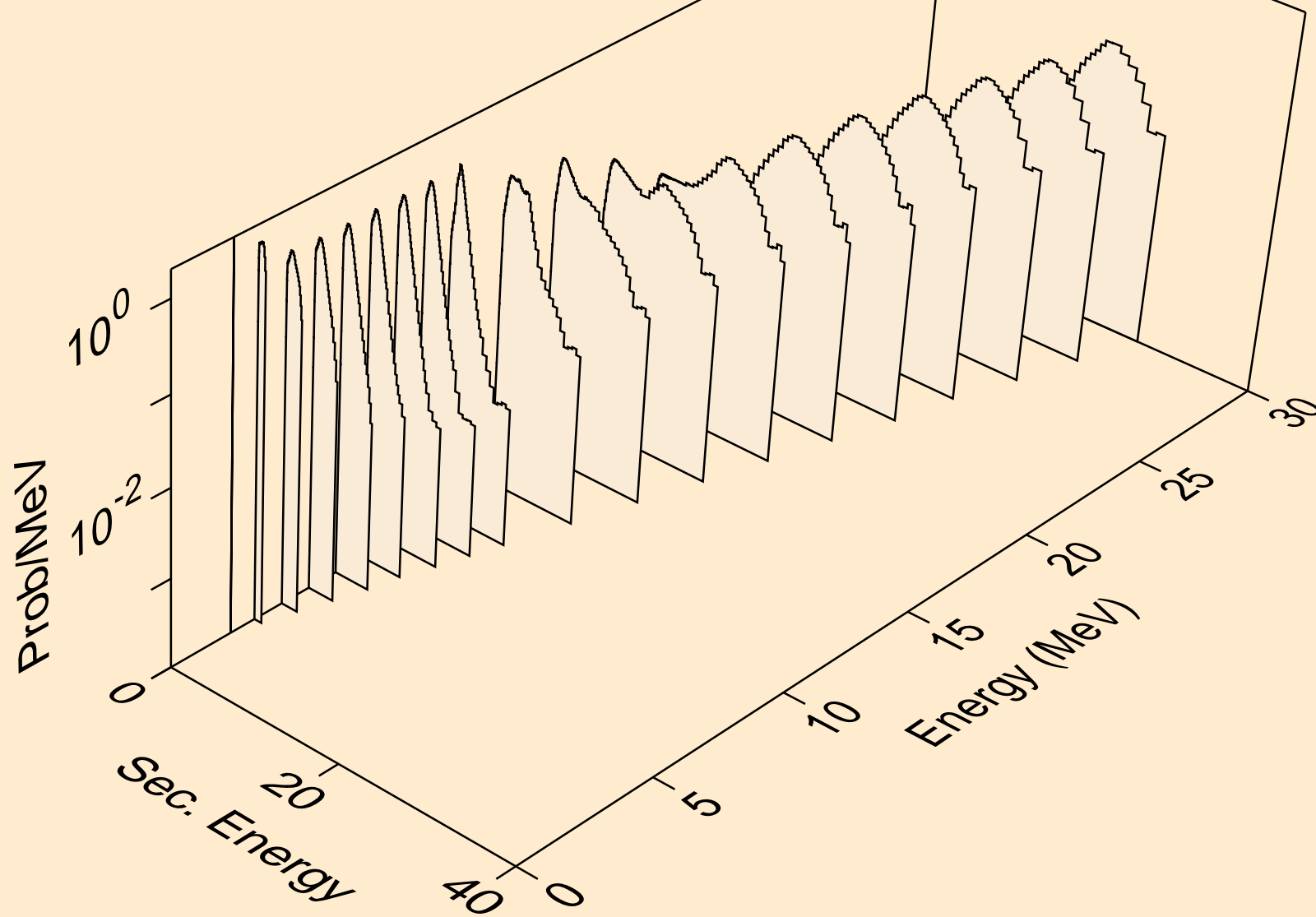
## Recoil Heating



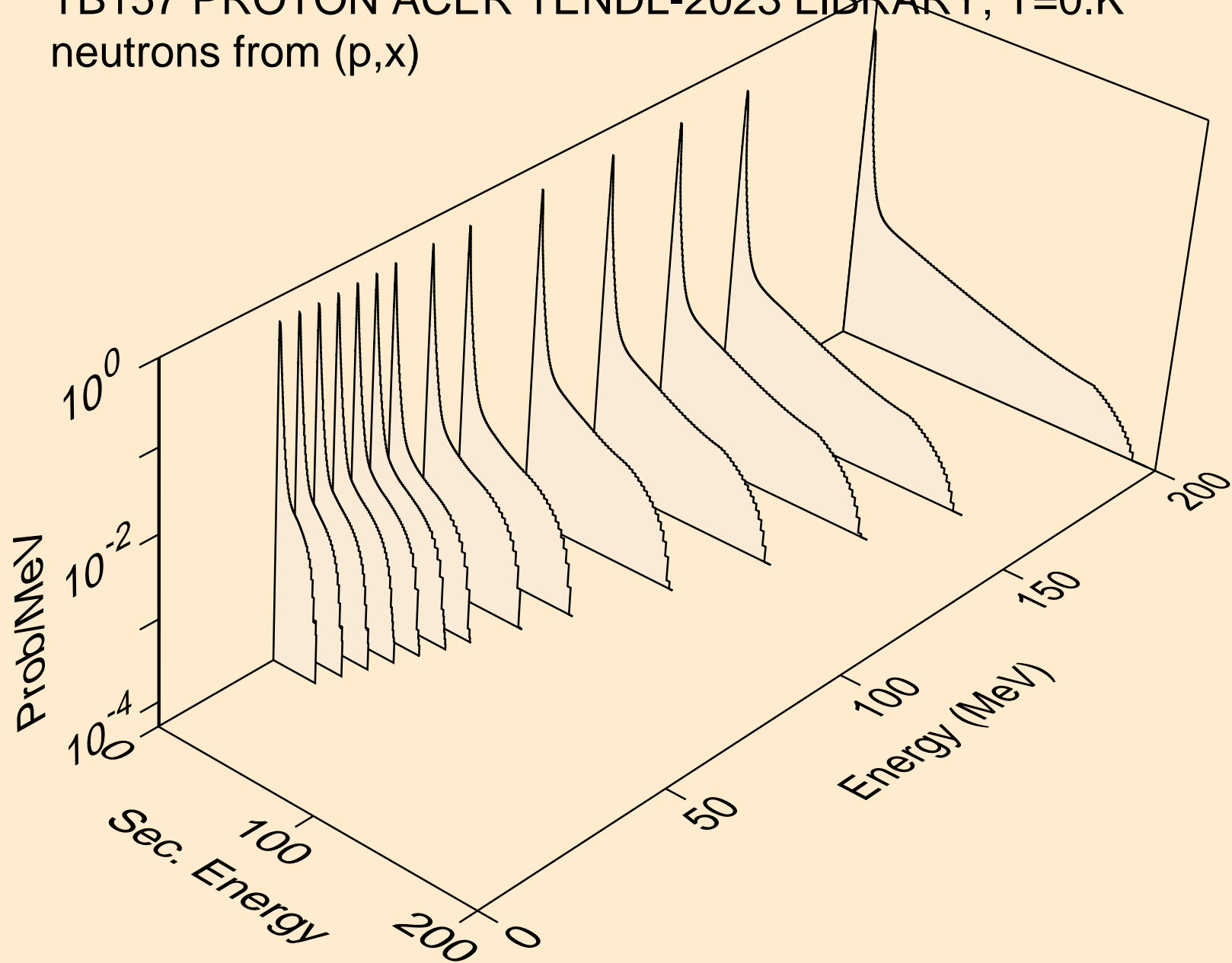
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)

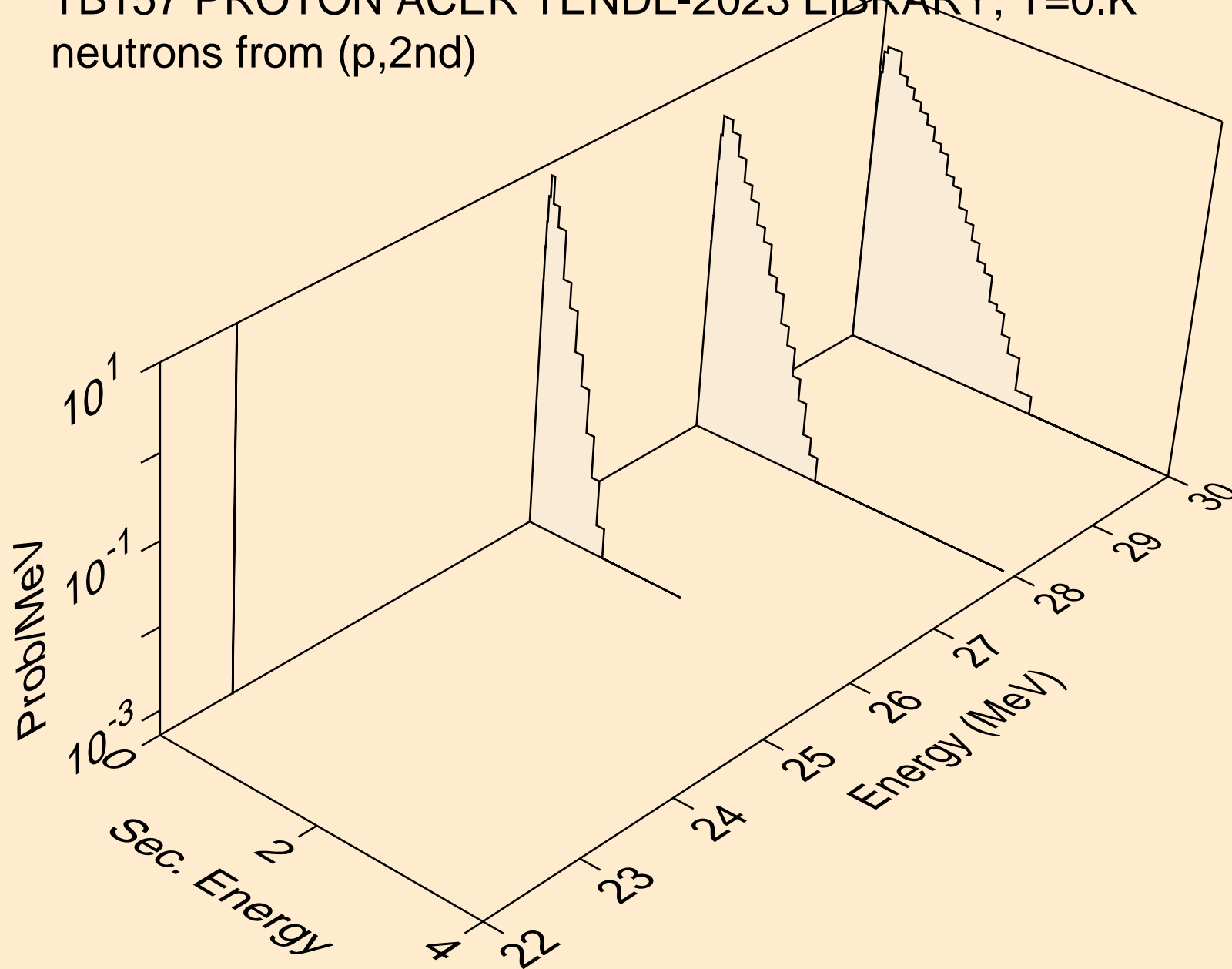


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

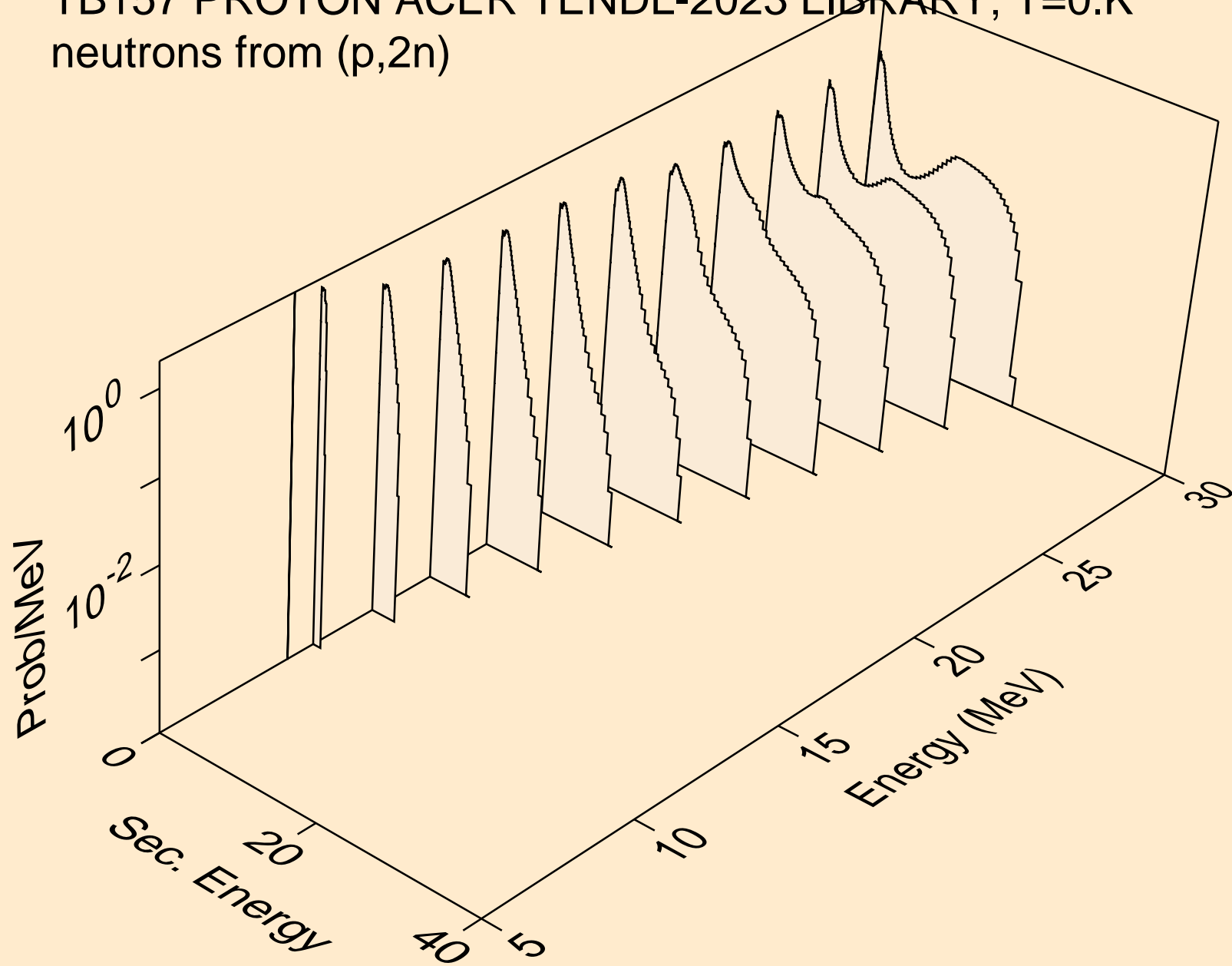




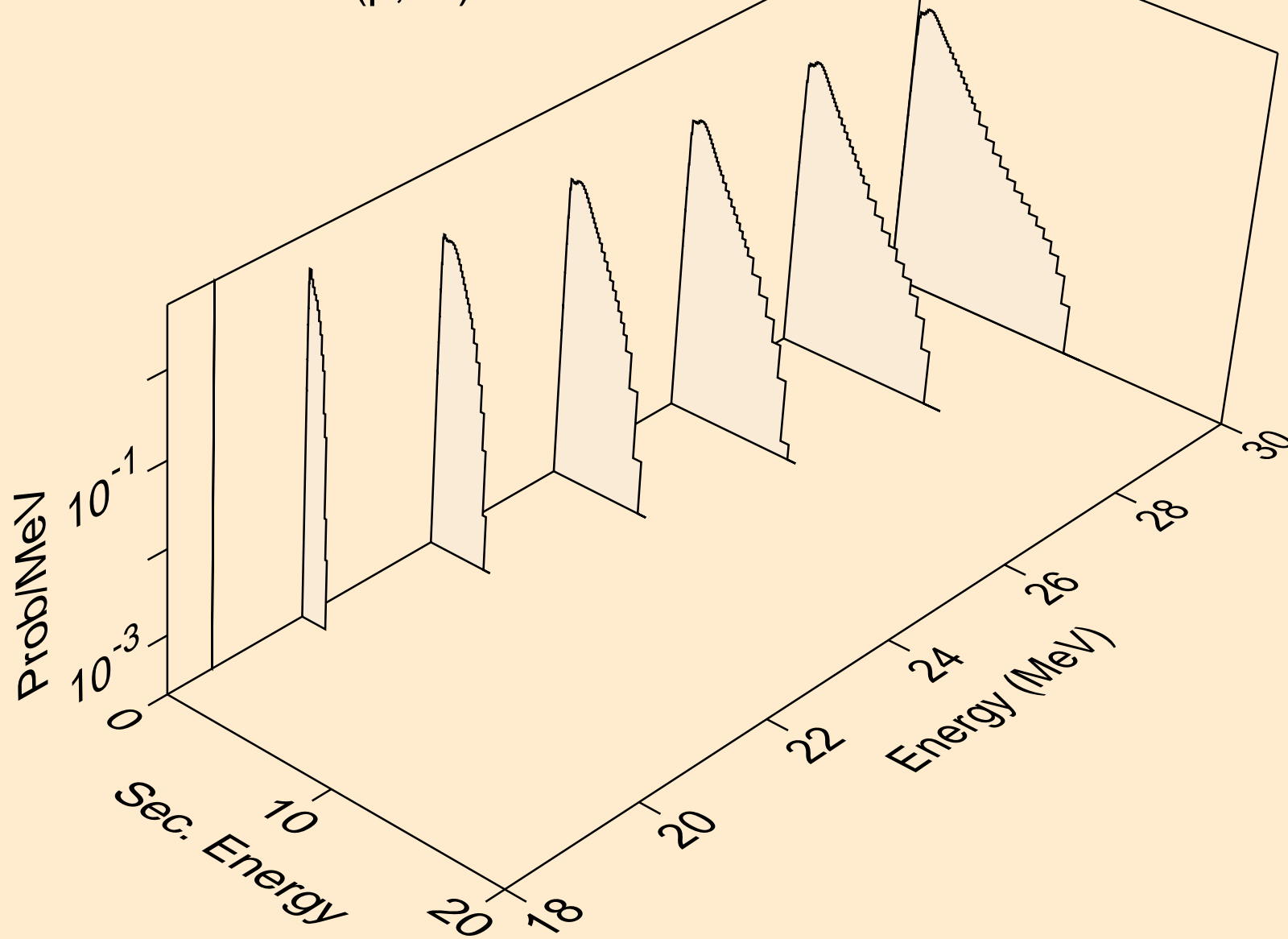
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)



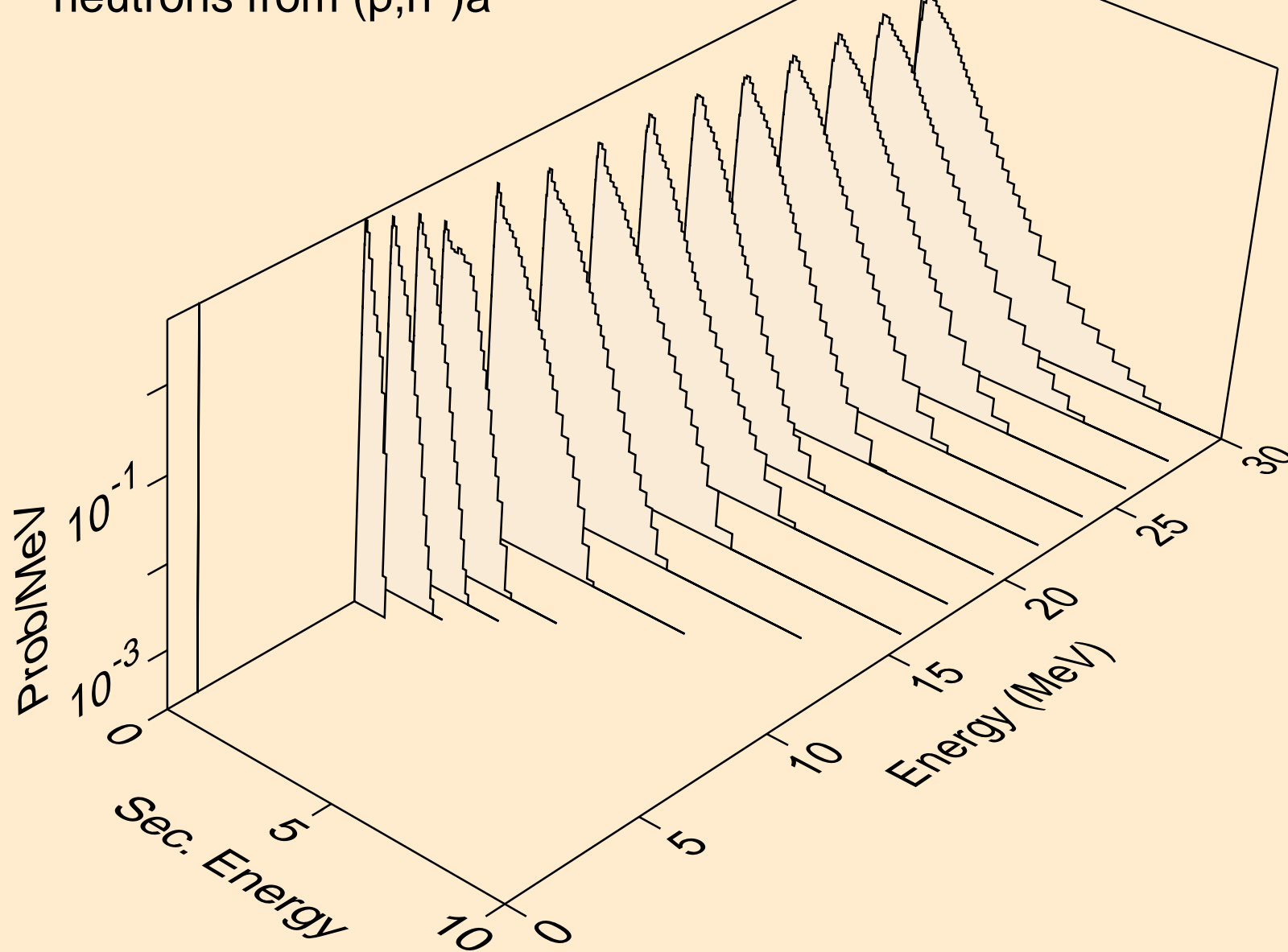
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neutrons from (p,2n)



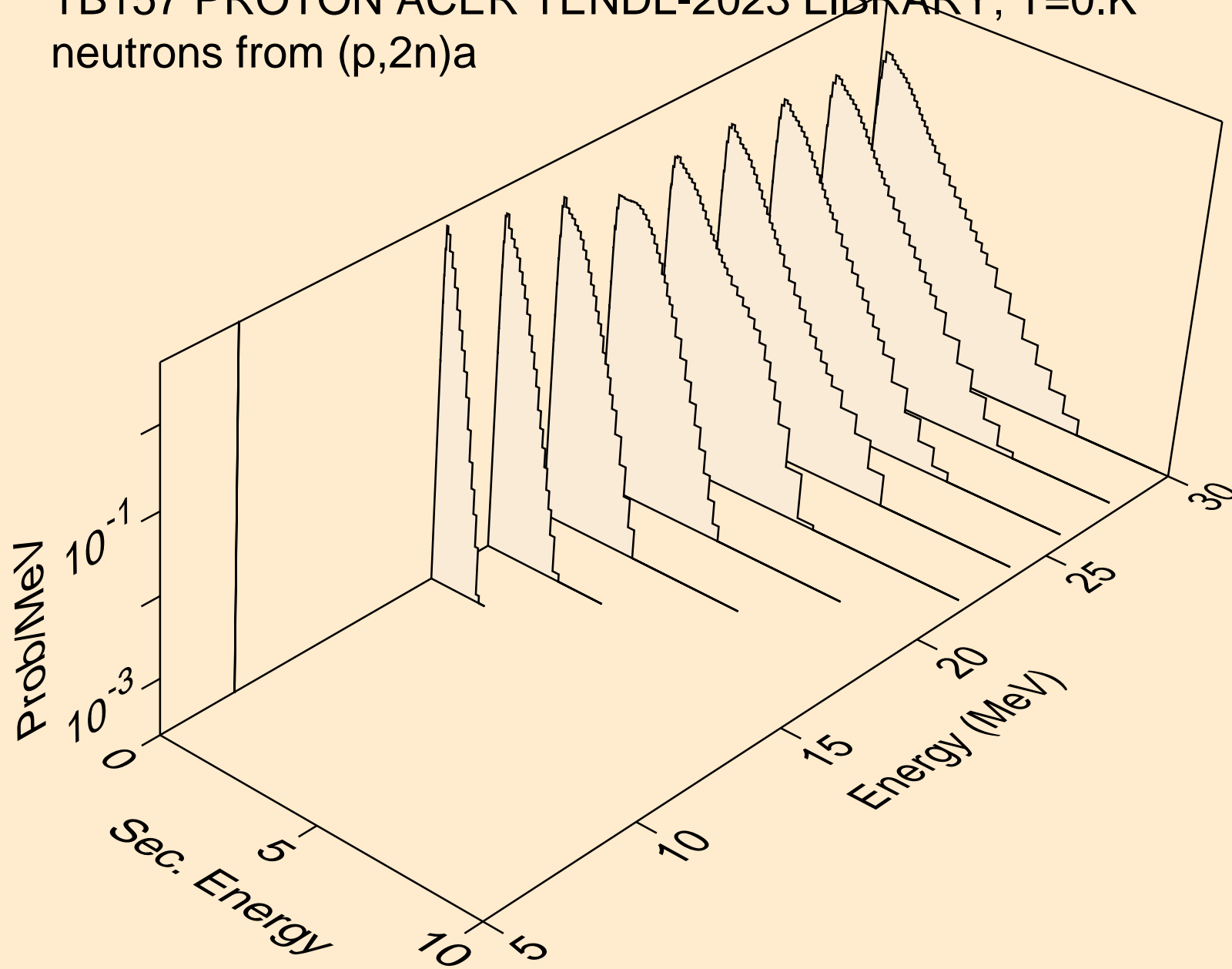
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



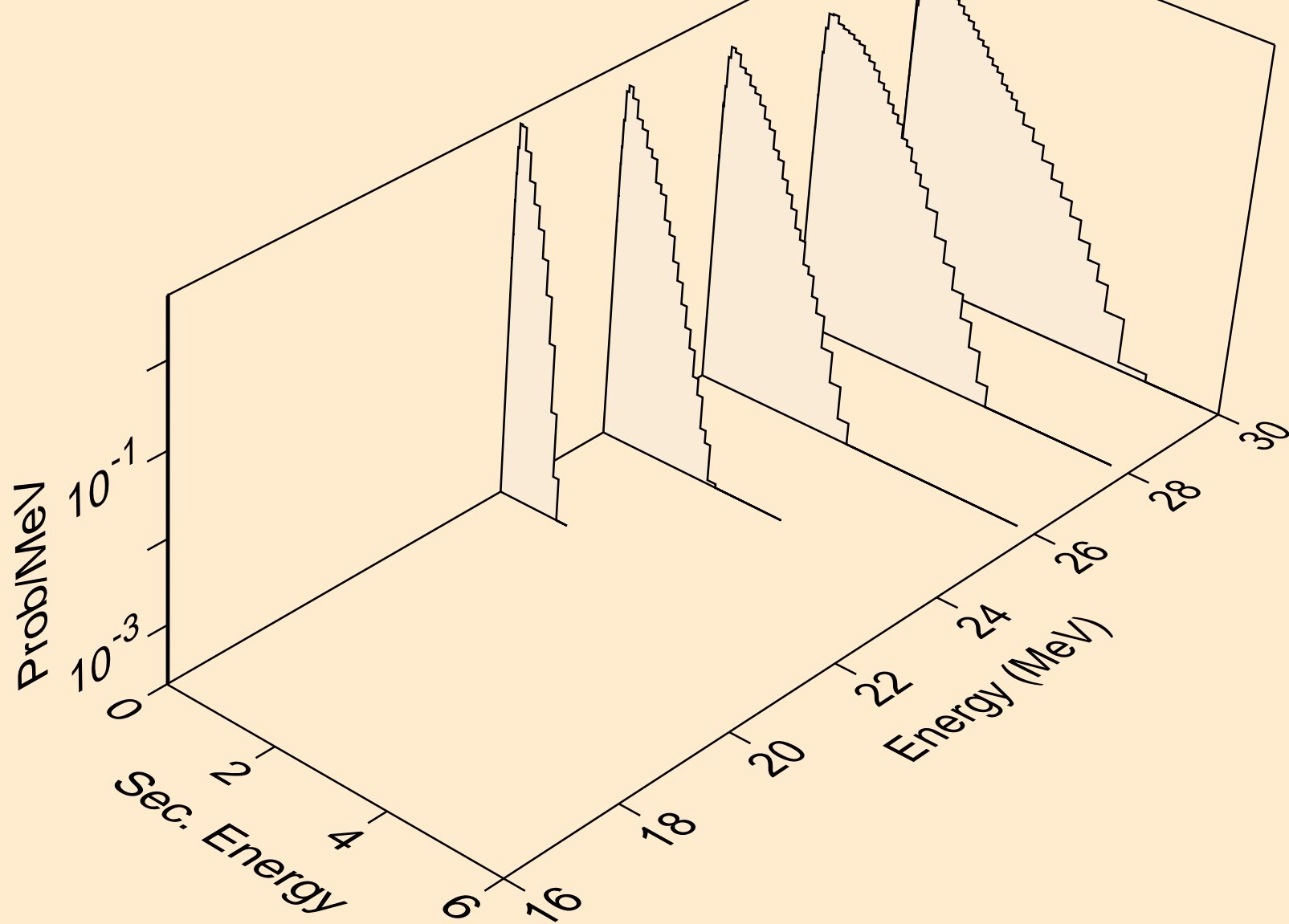
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



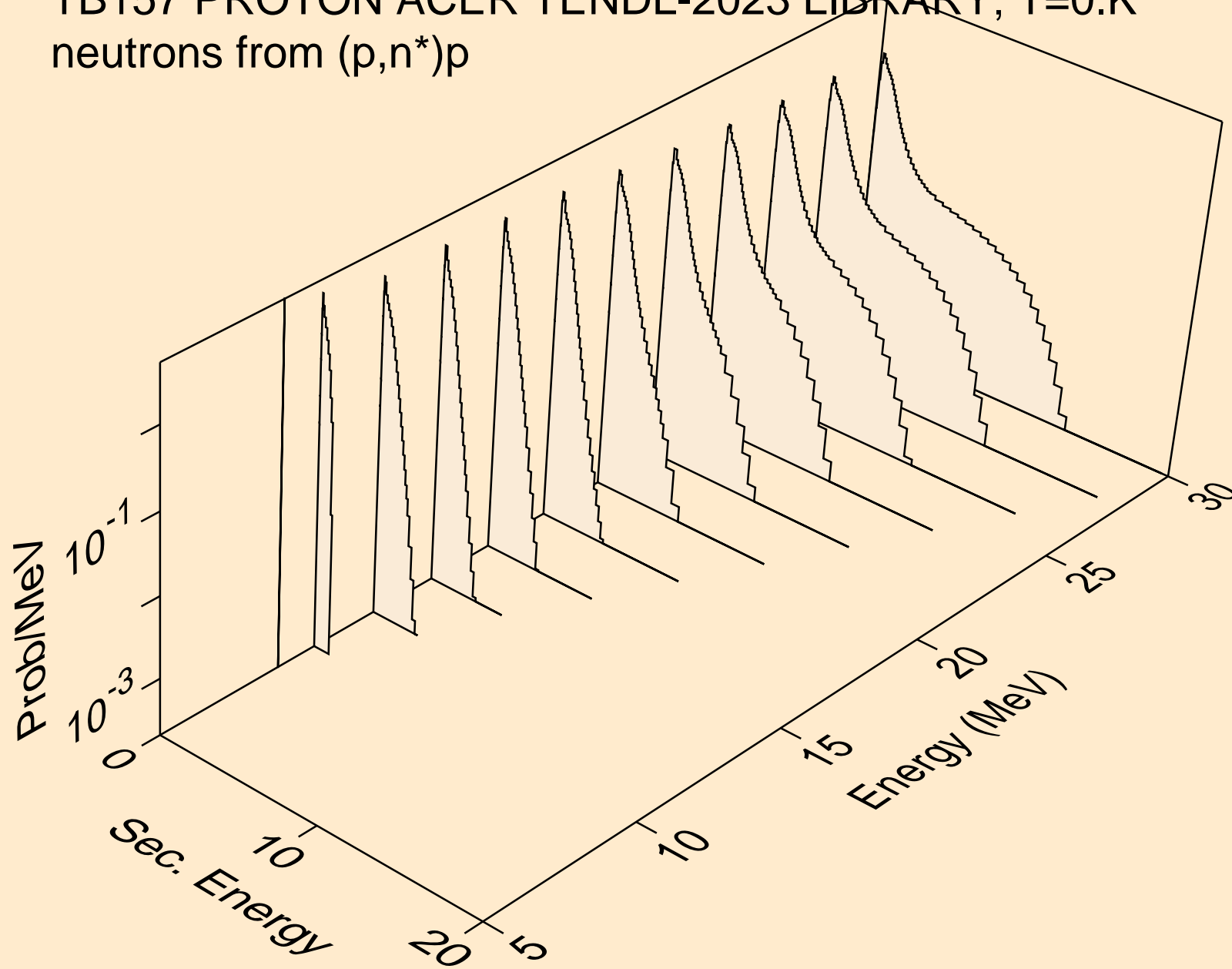
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neutrons from (p,2n)a



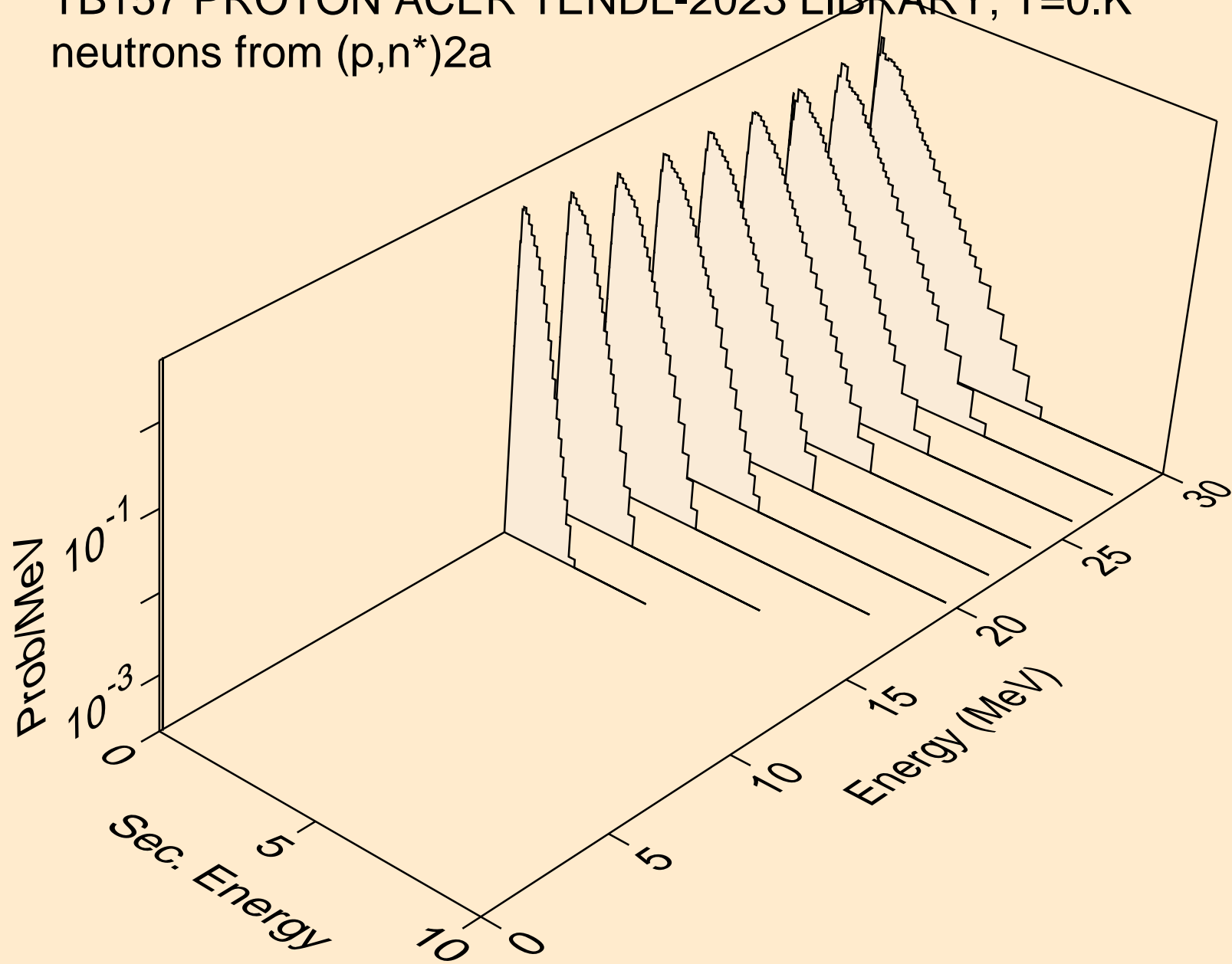
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p

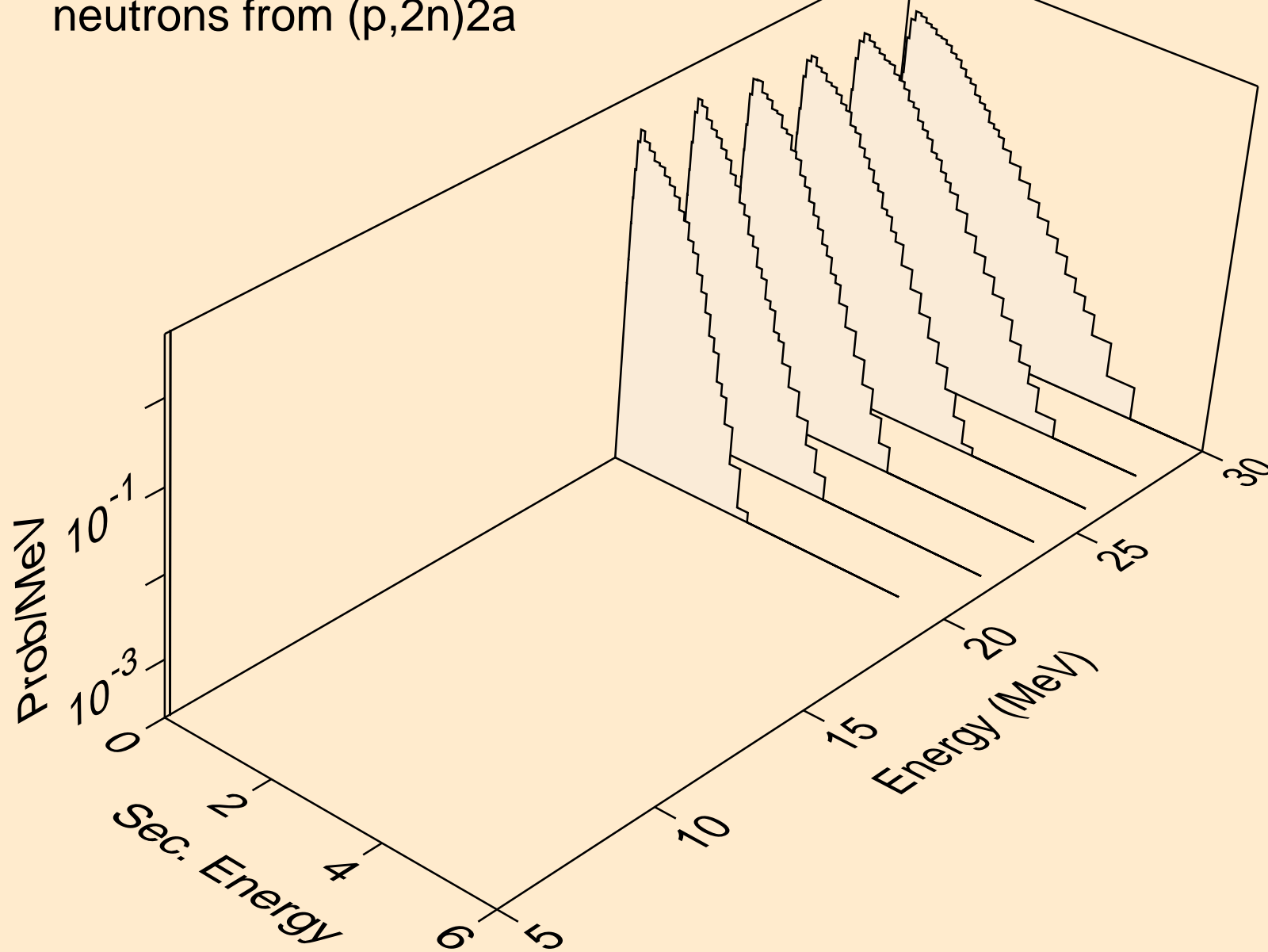


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neutrons from (p,n\*)2a

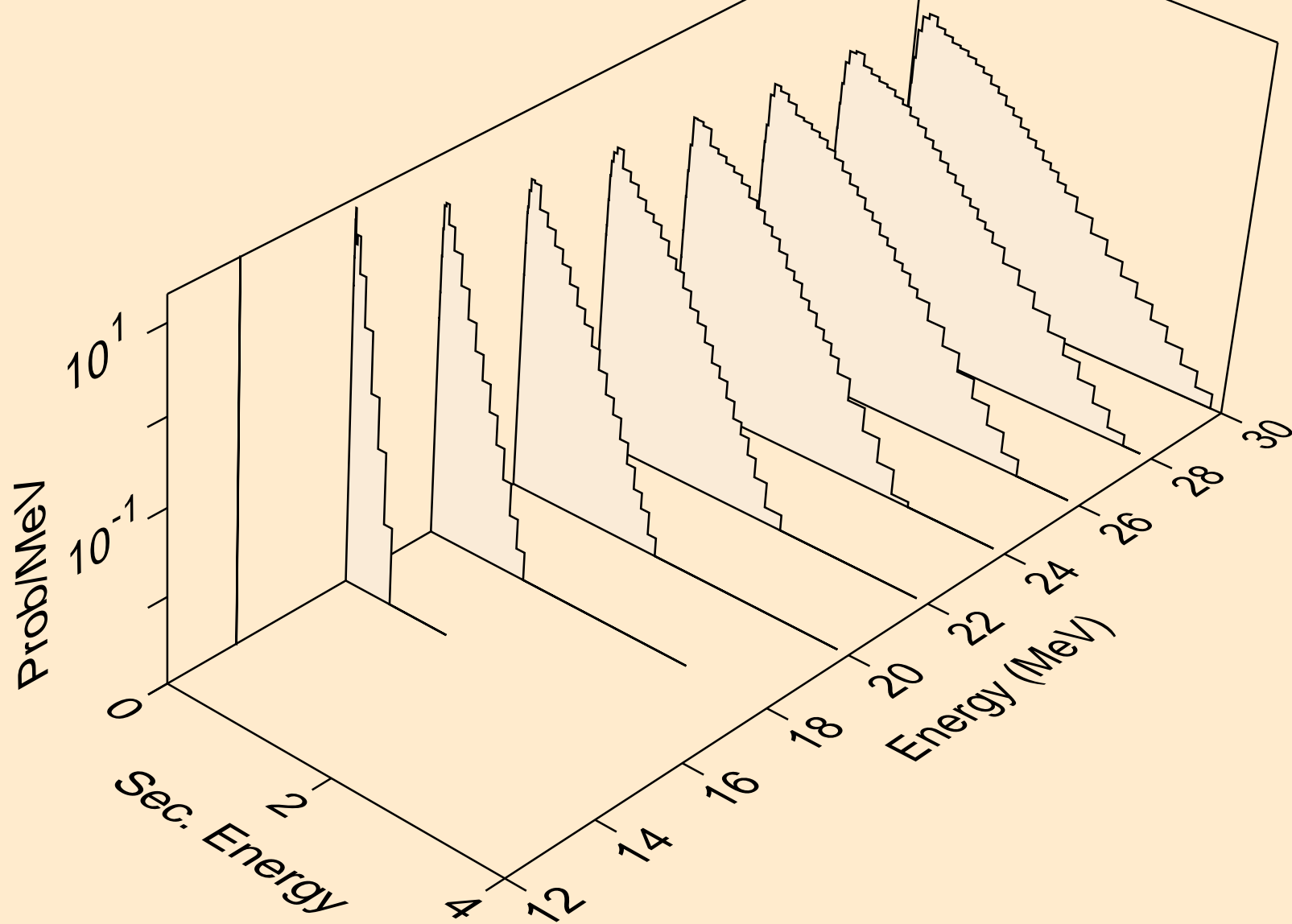




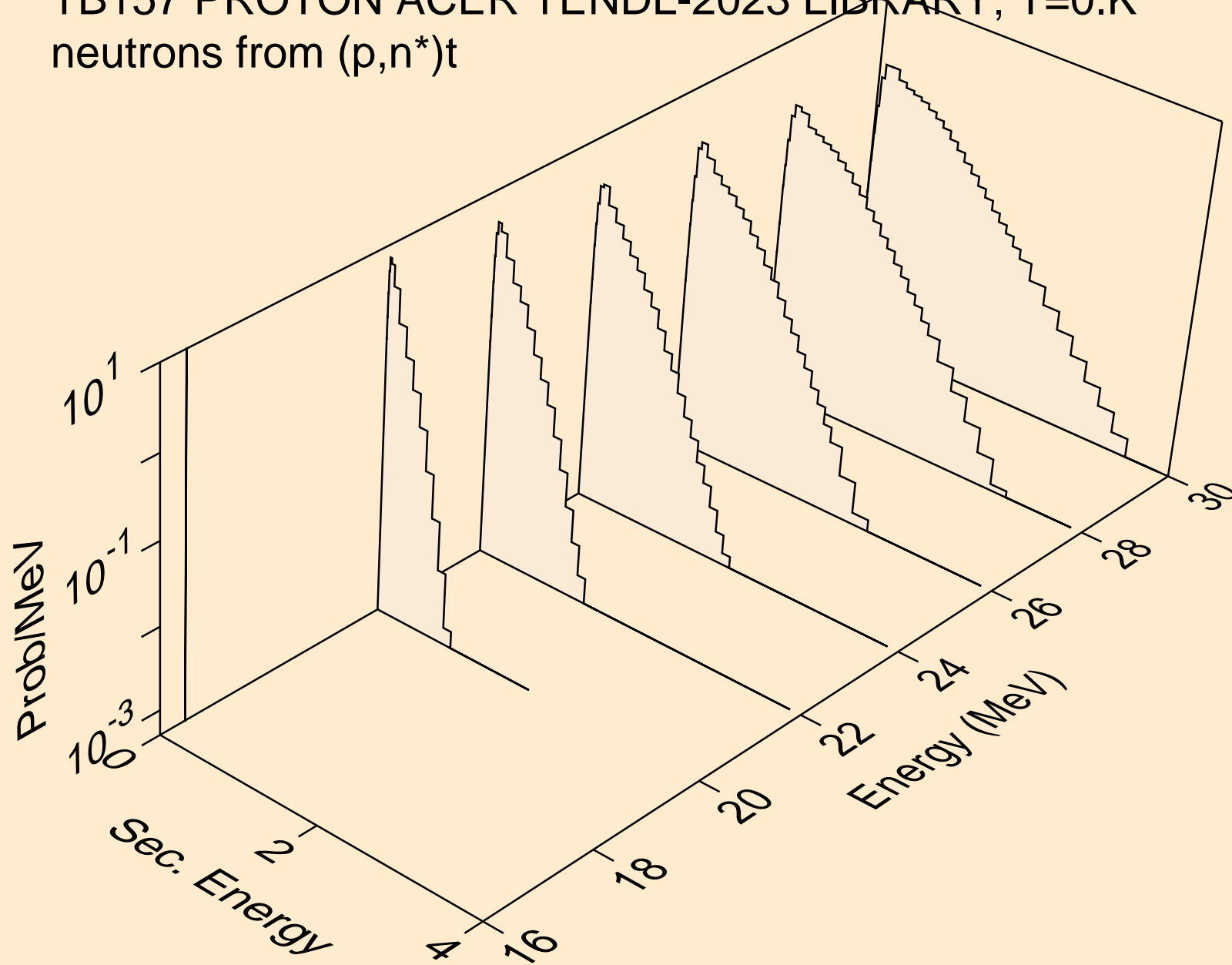
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neutrons from (p,2n)2a



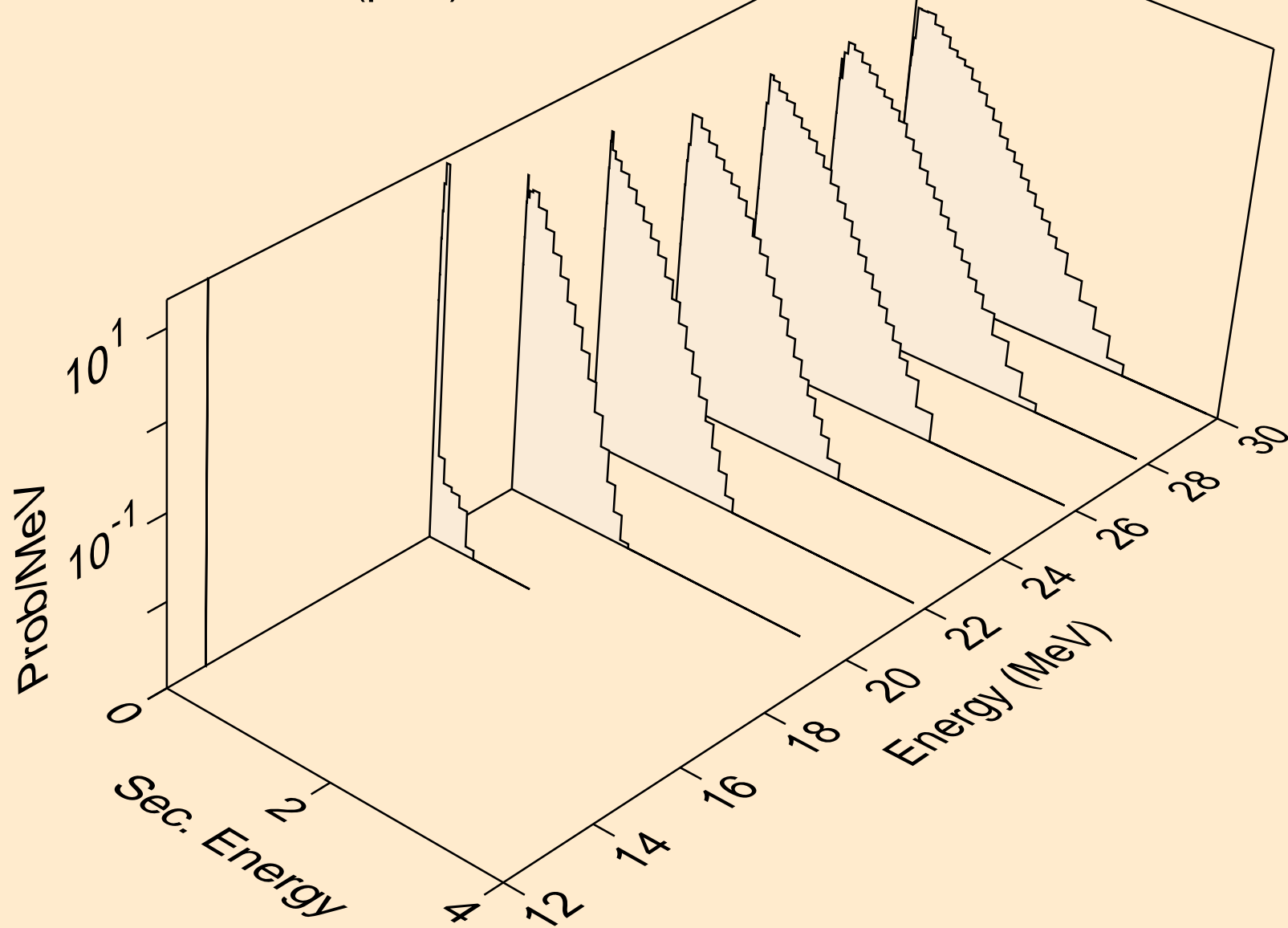
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neutrons from (p,n\*)d



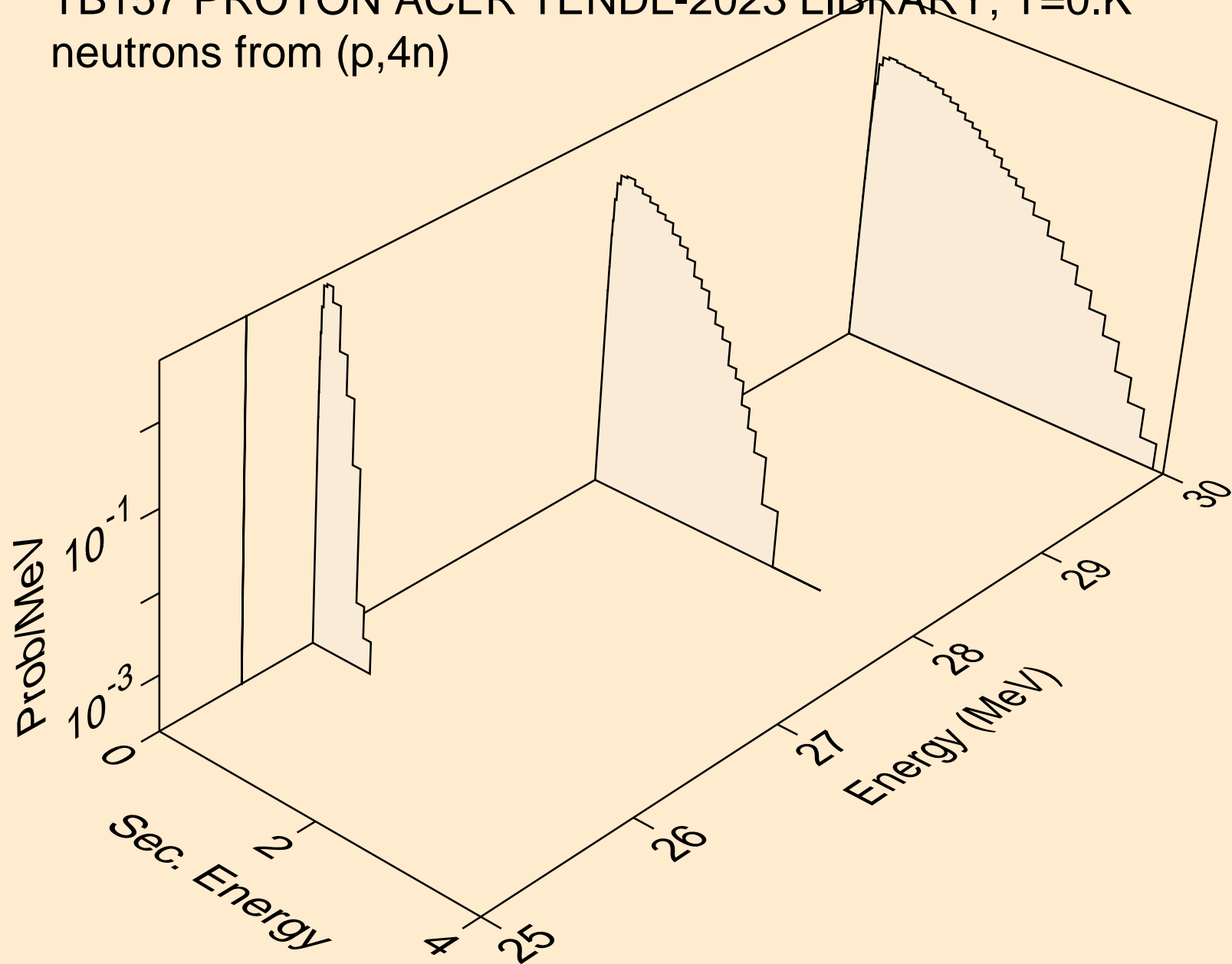
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



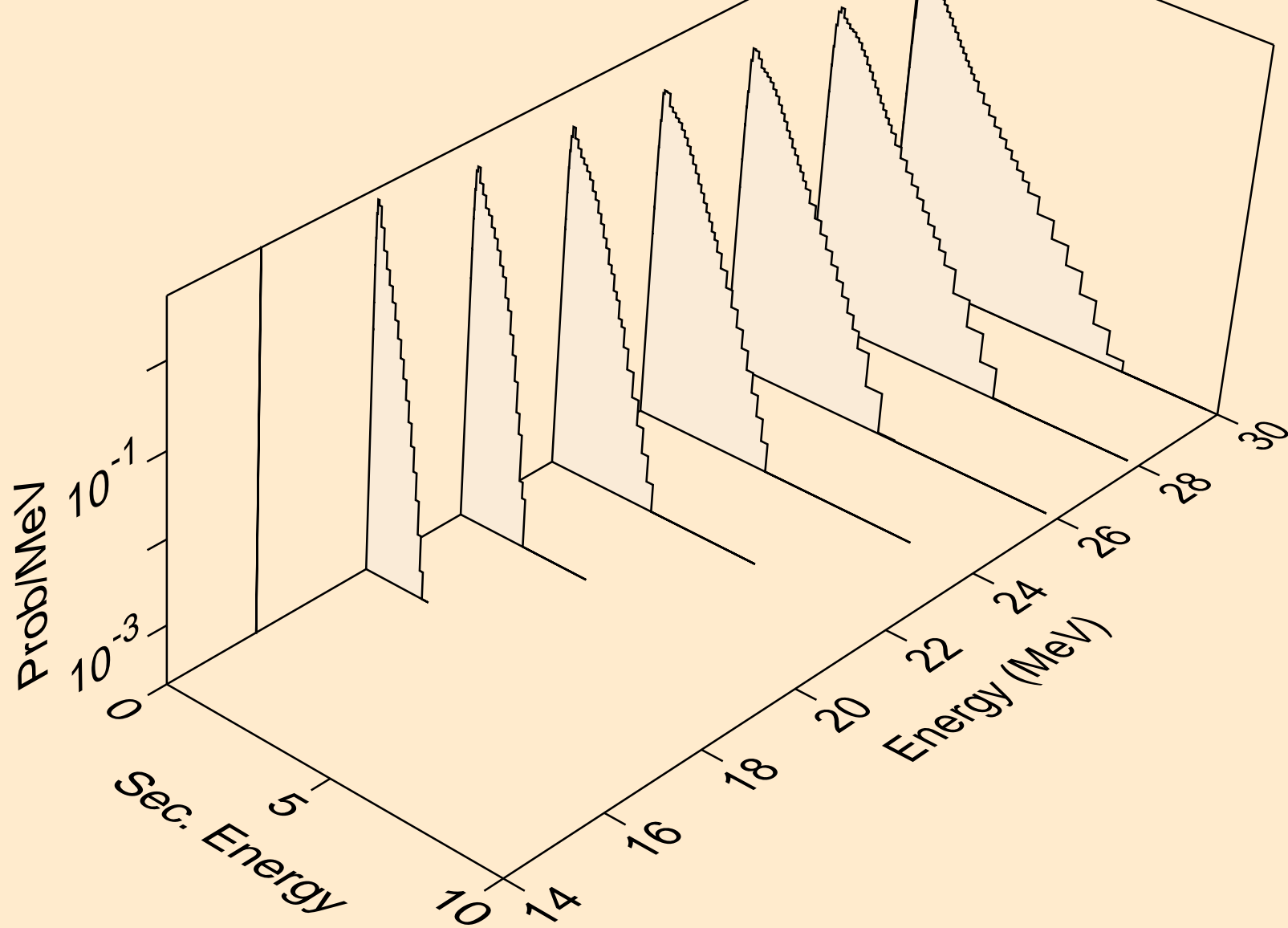
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



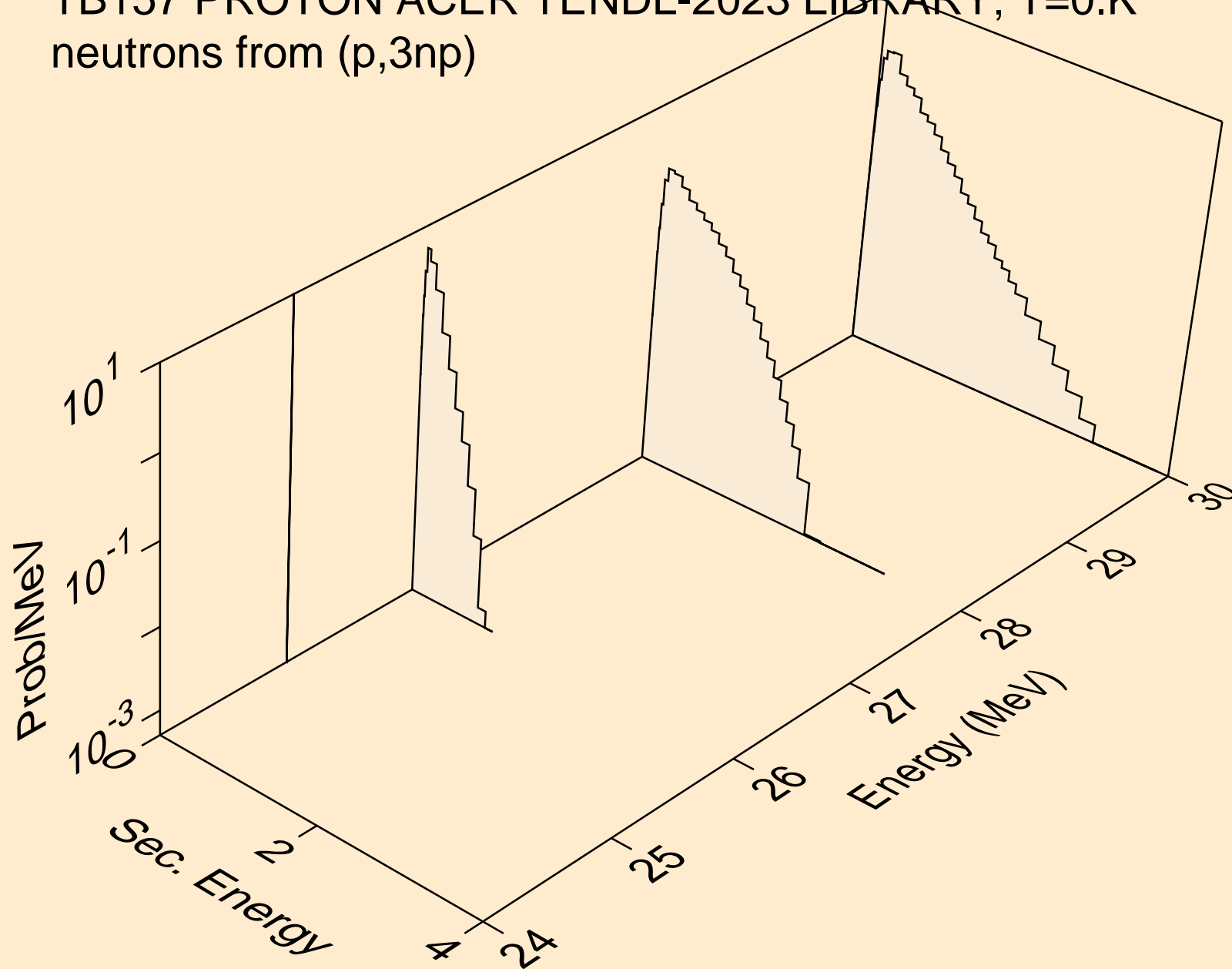
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



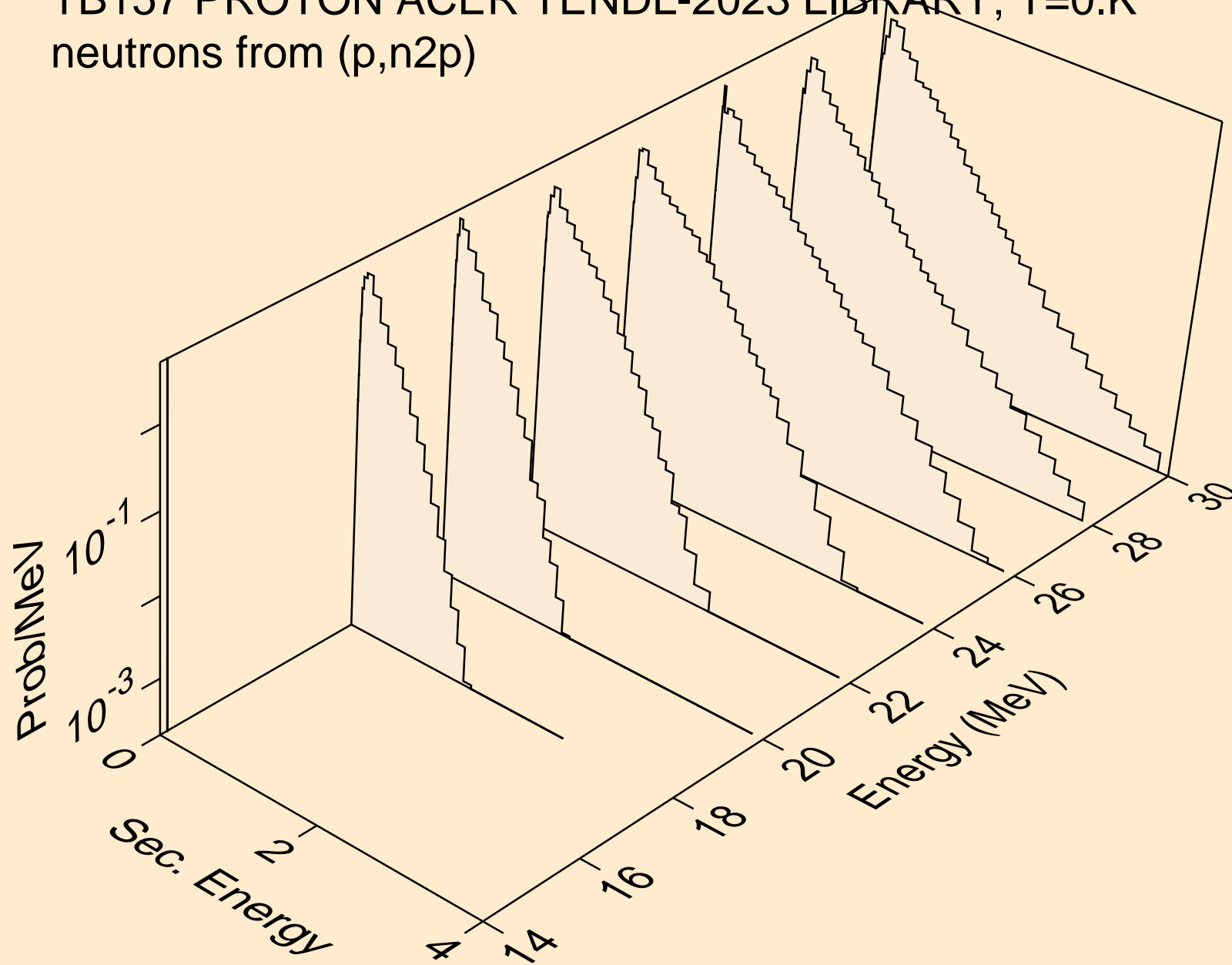
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)

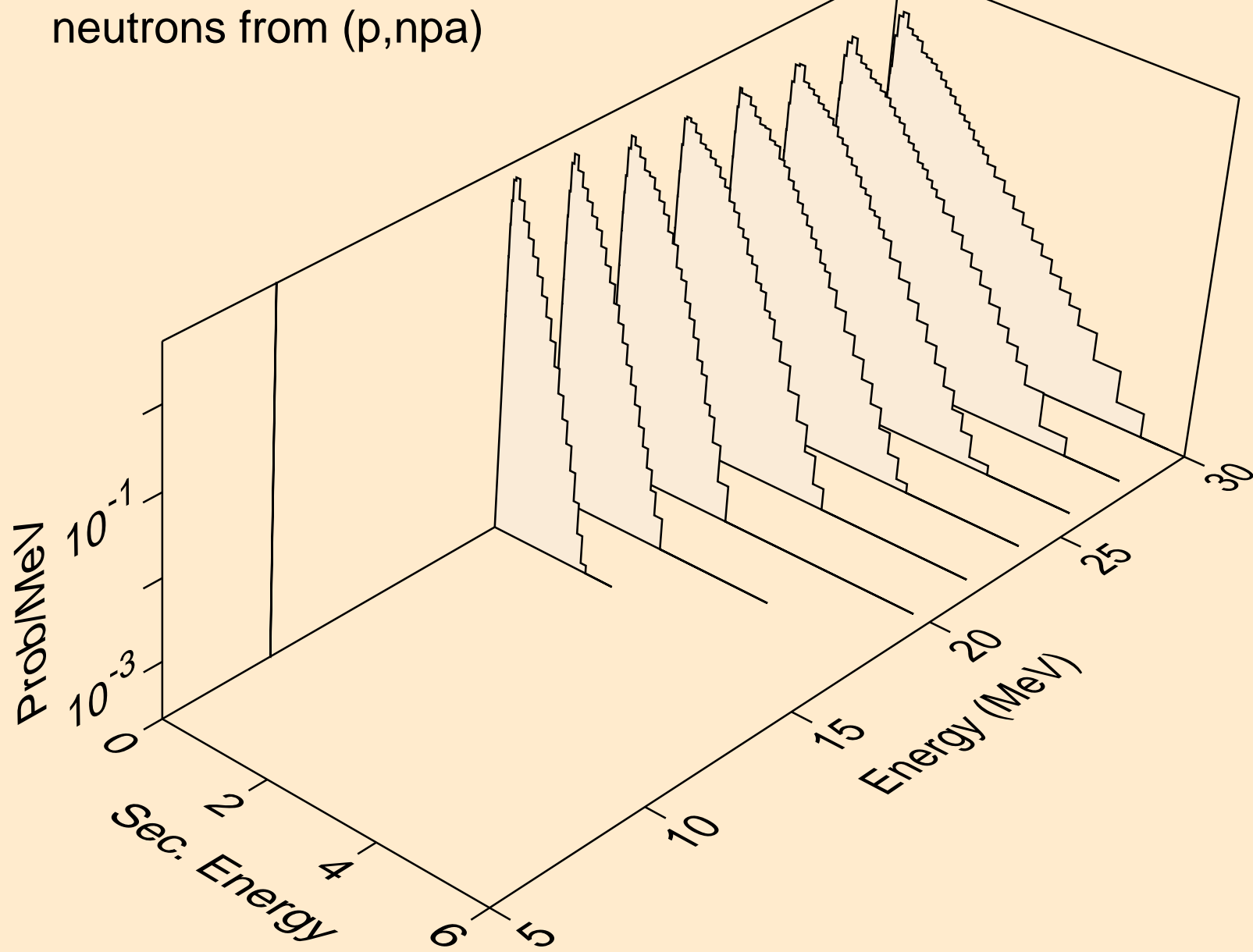


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)

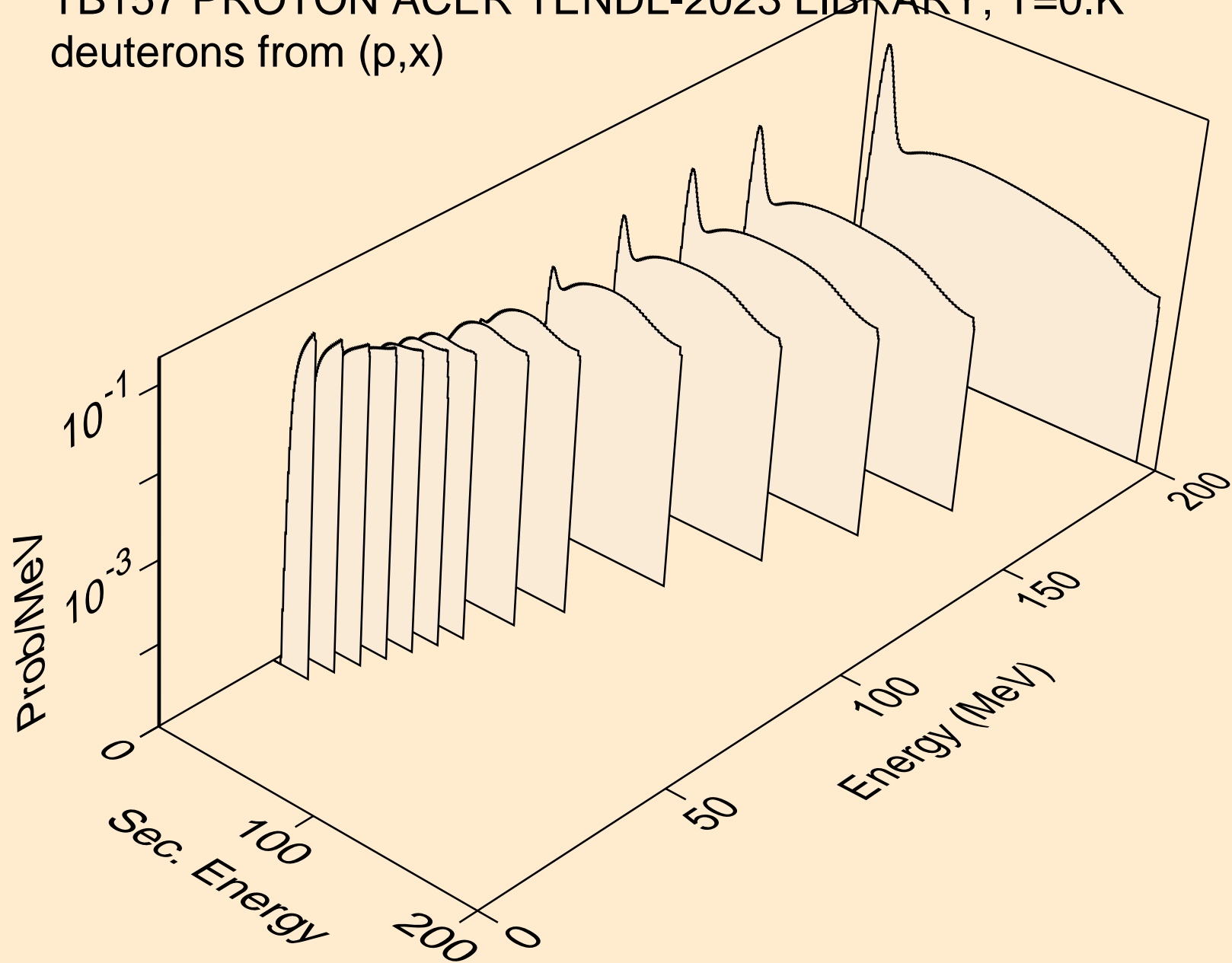




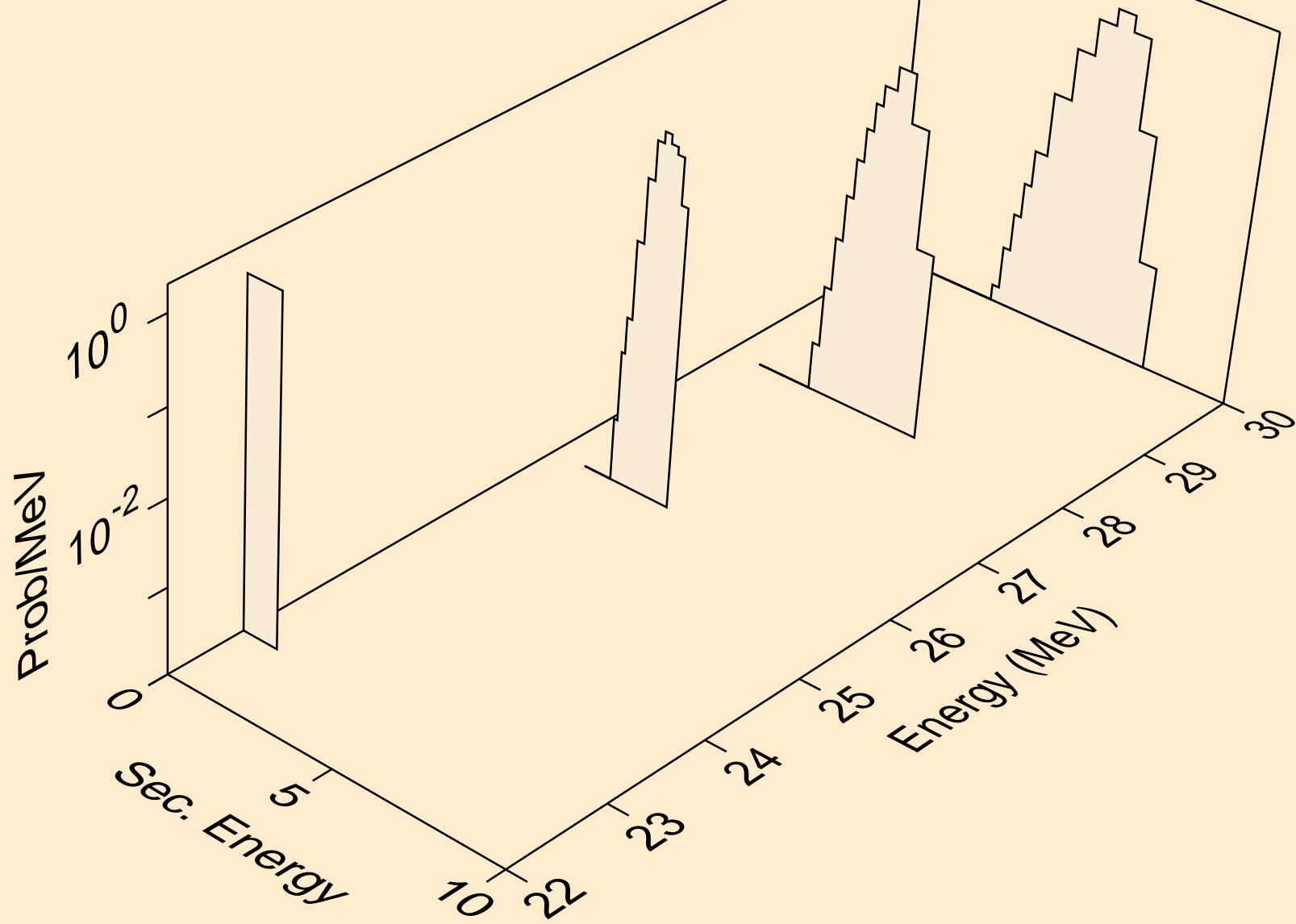
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neutrons from (p,npa)



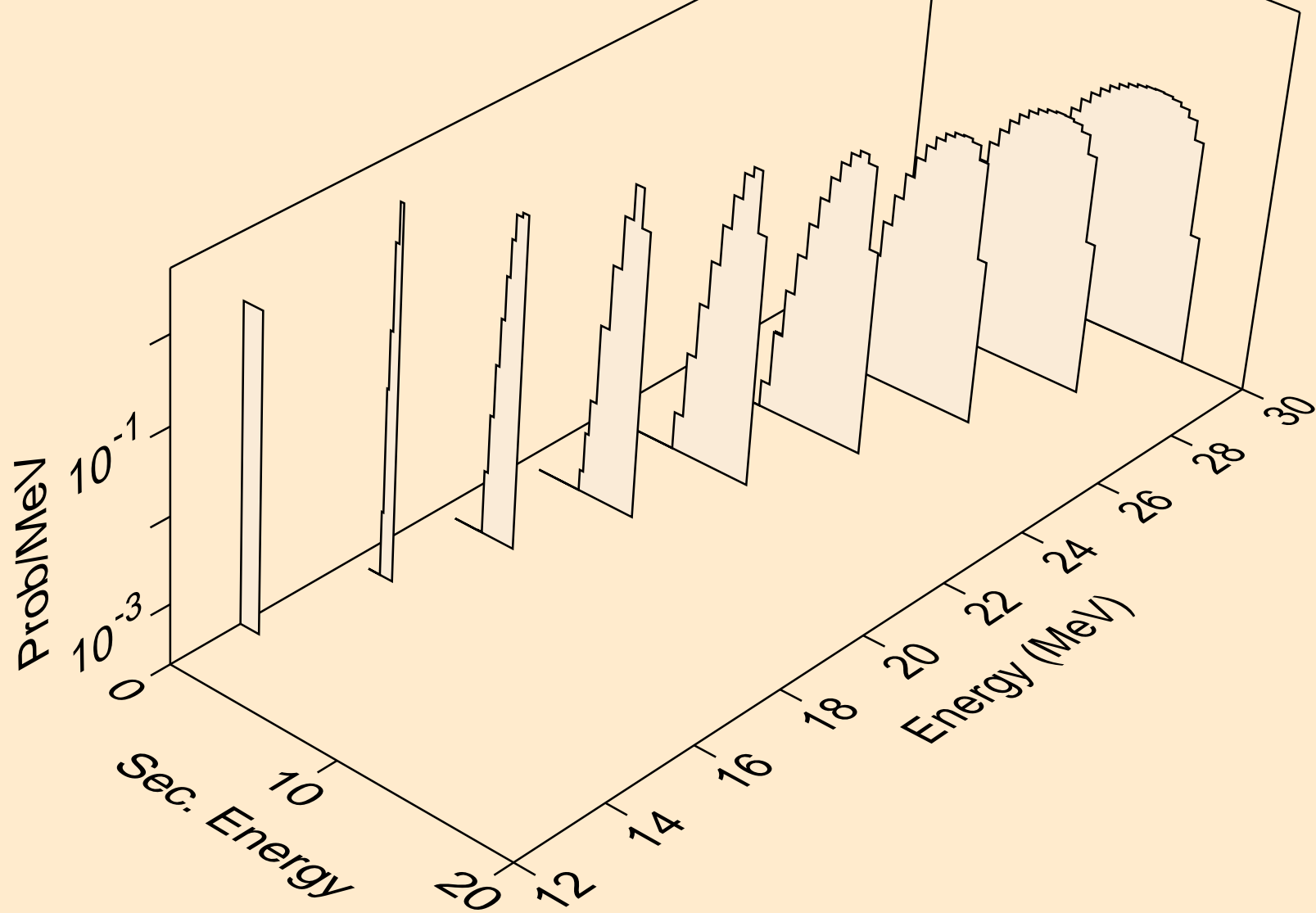
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



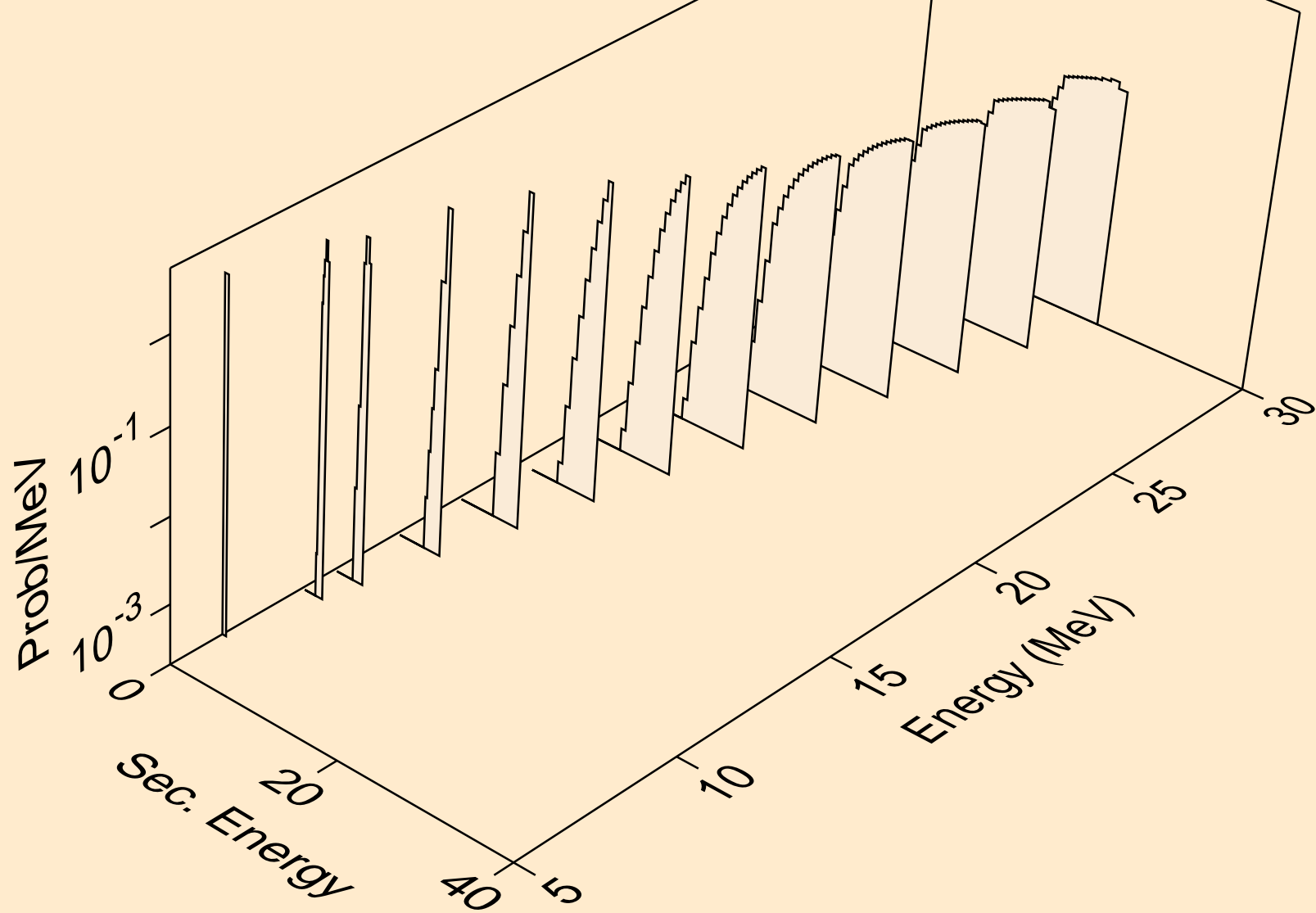
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deuterons from (p,2nd)



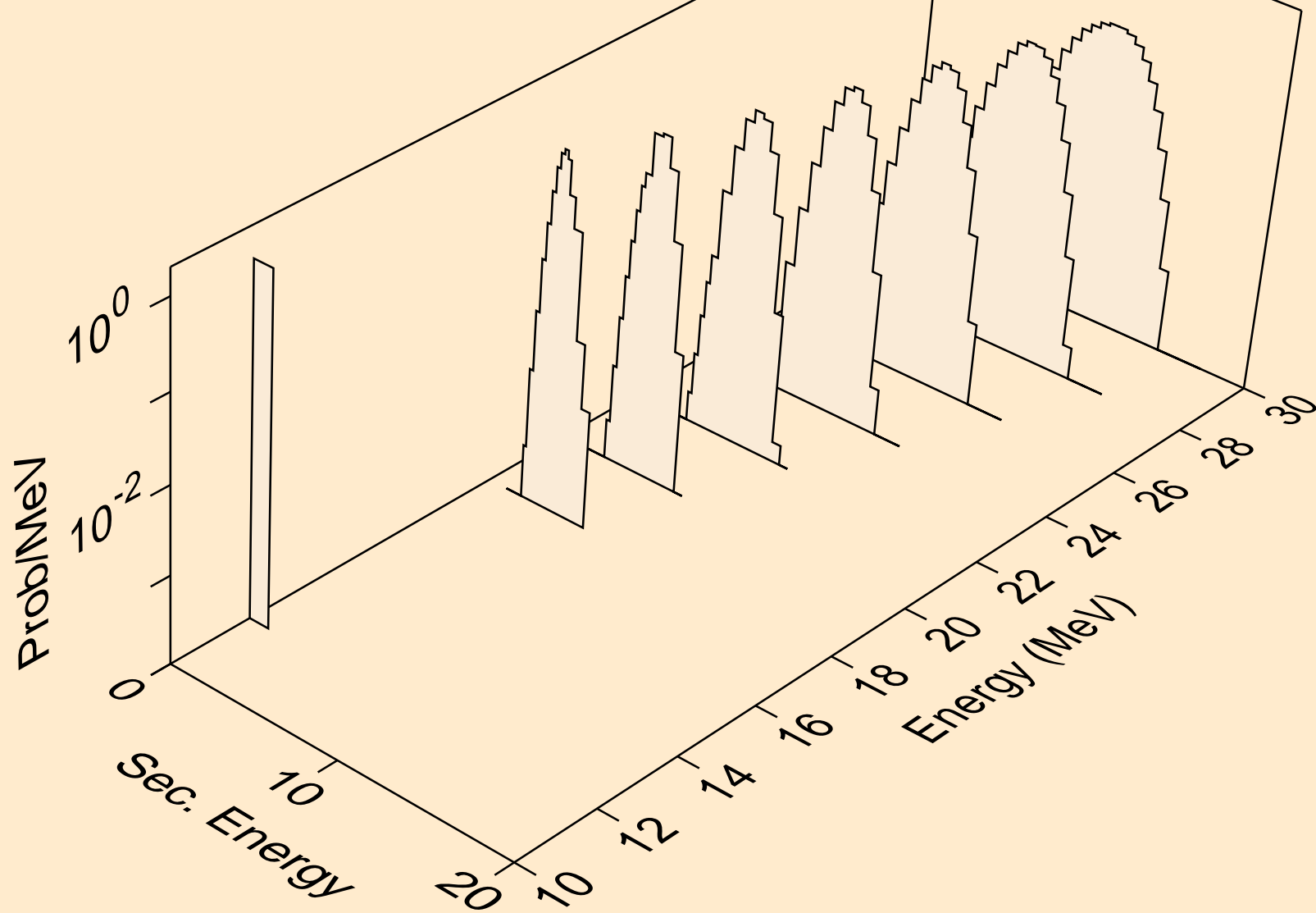
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



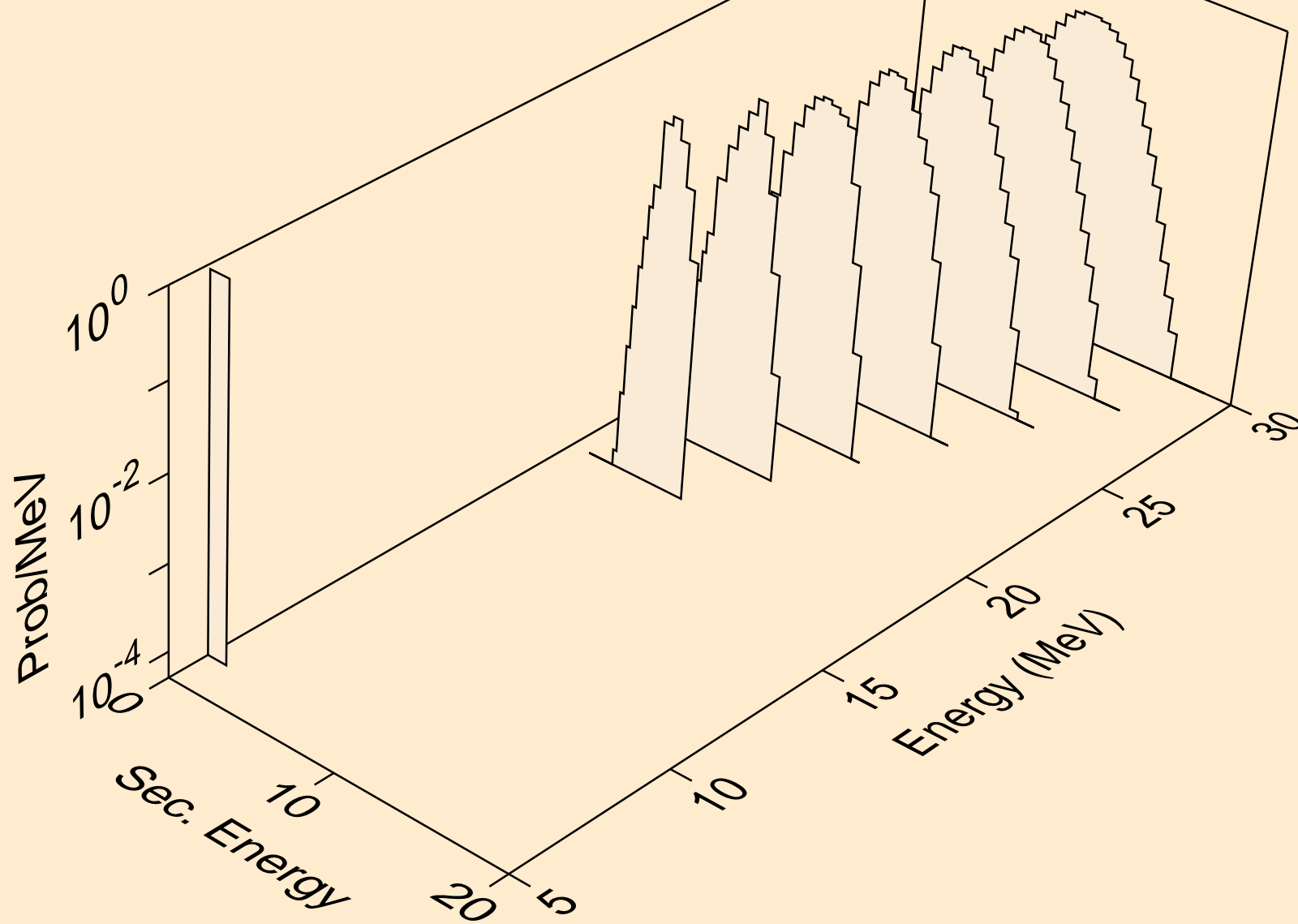
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deuterons from (p,d)



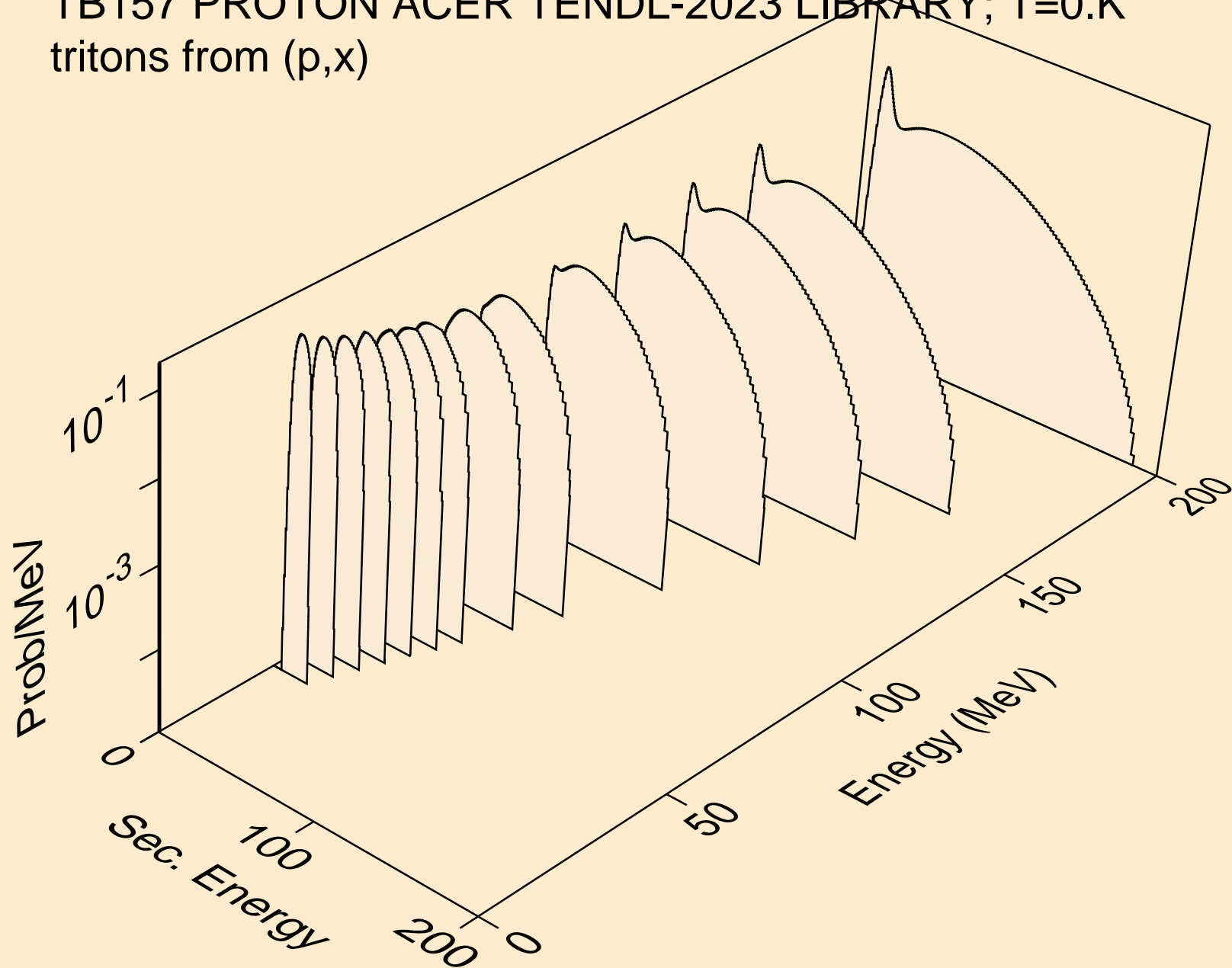
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

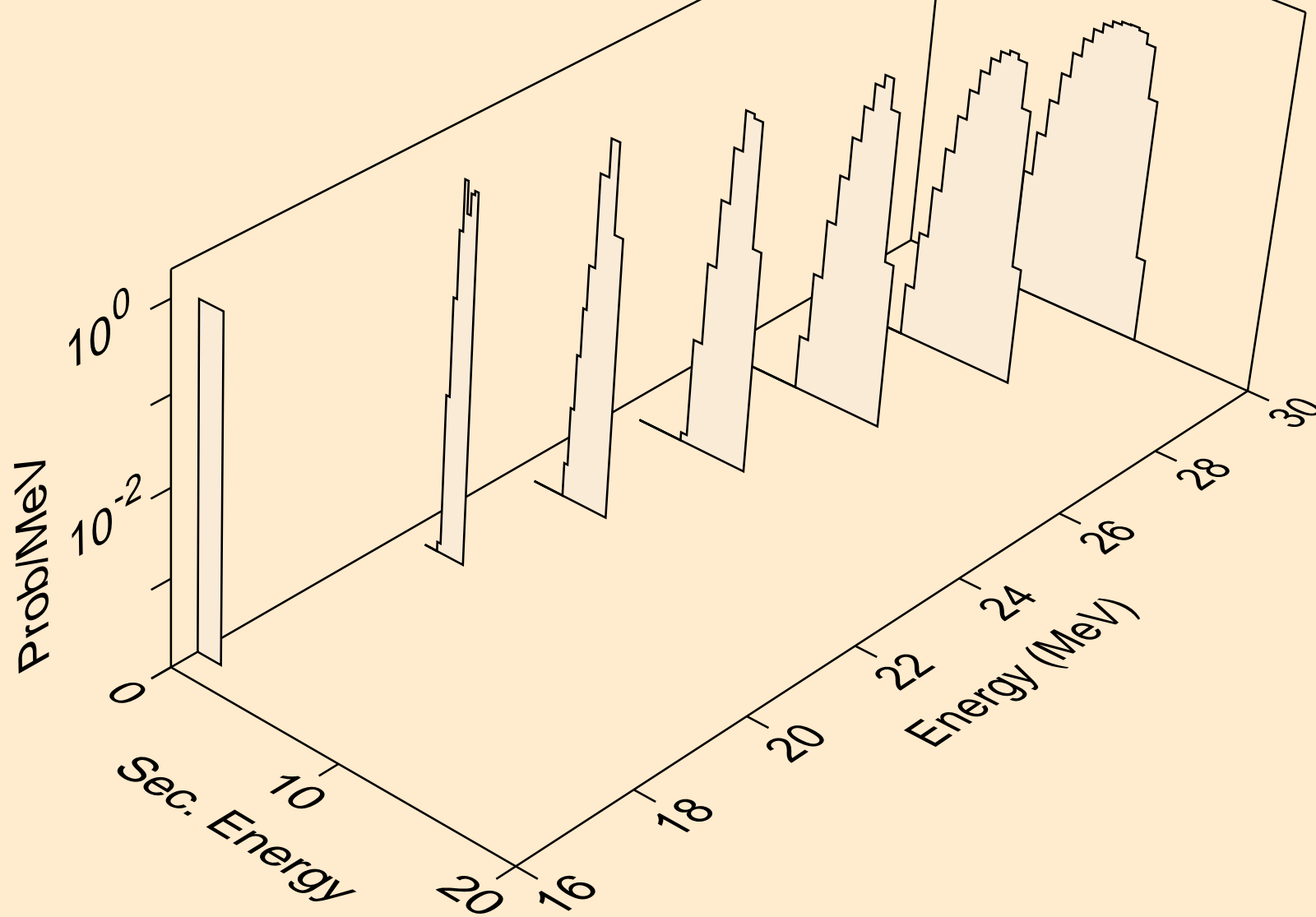


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

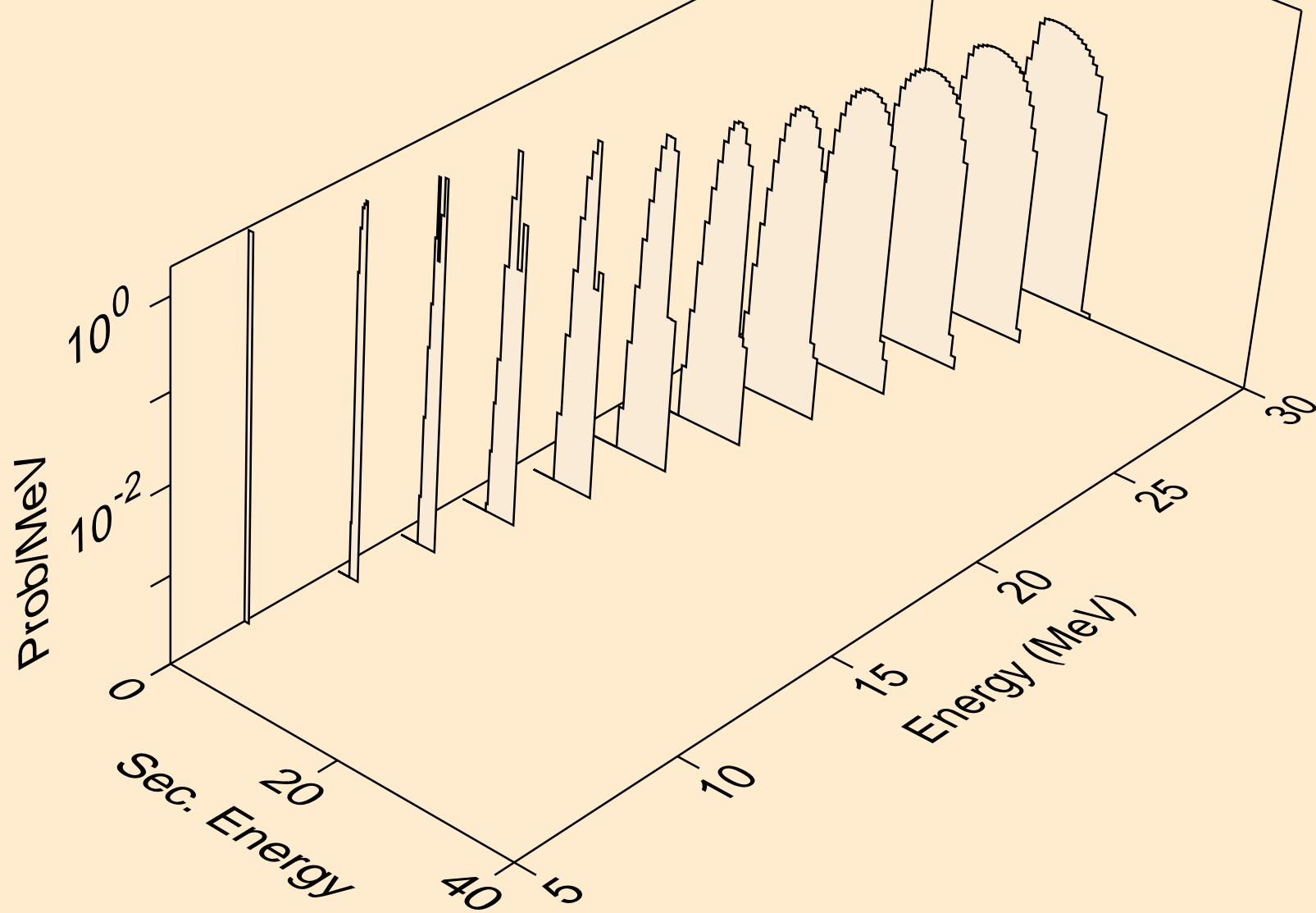




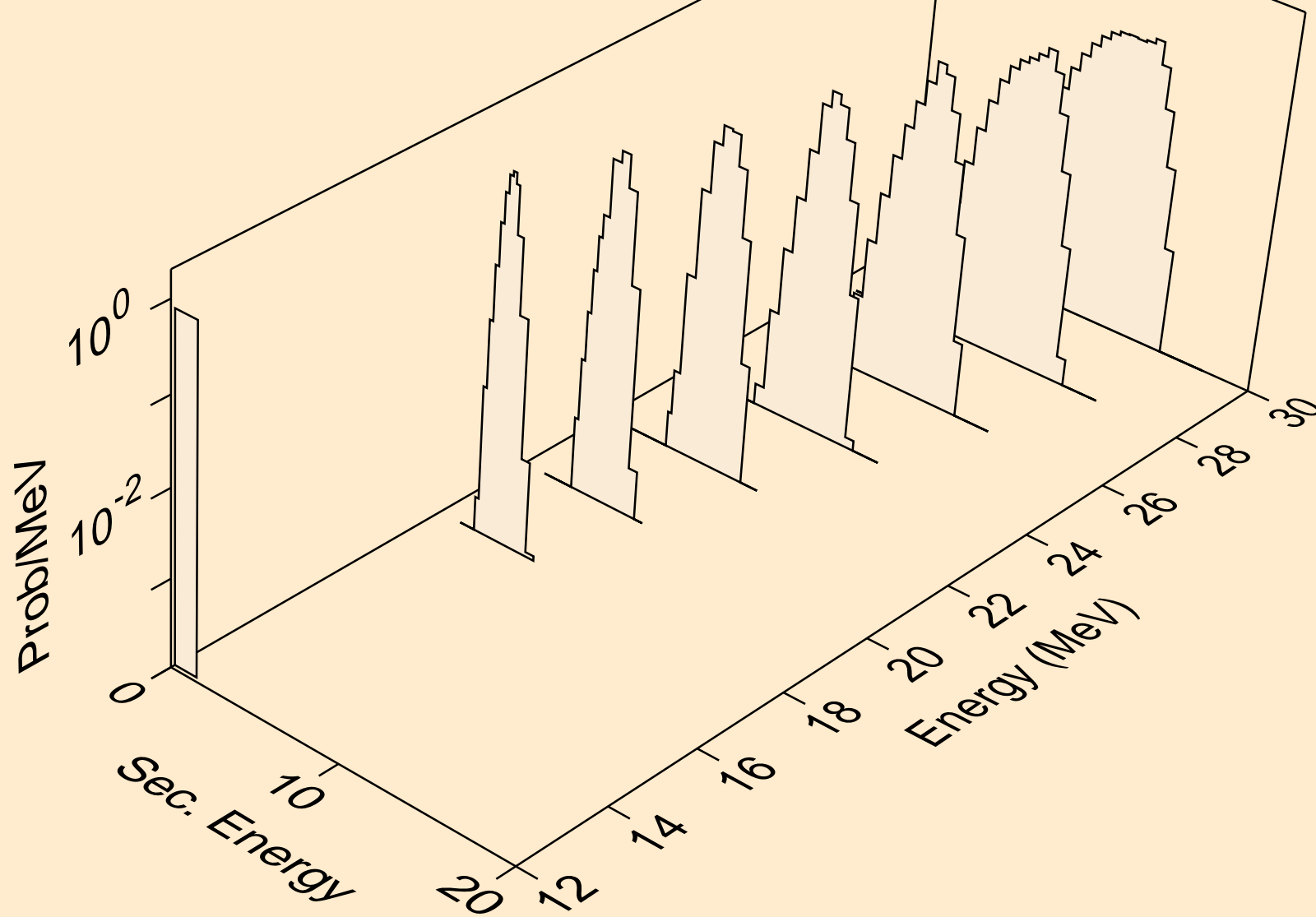
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



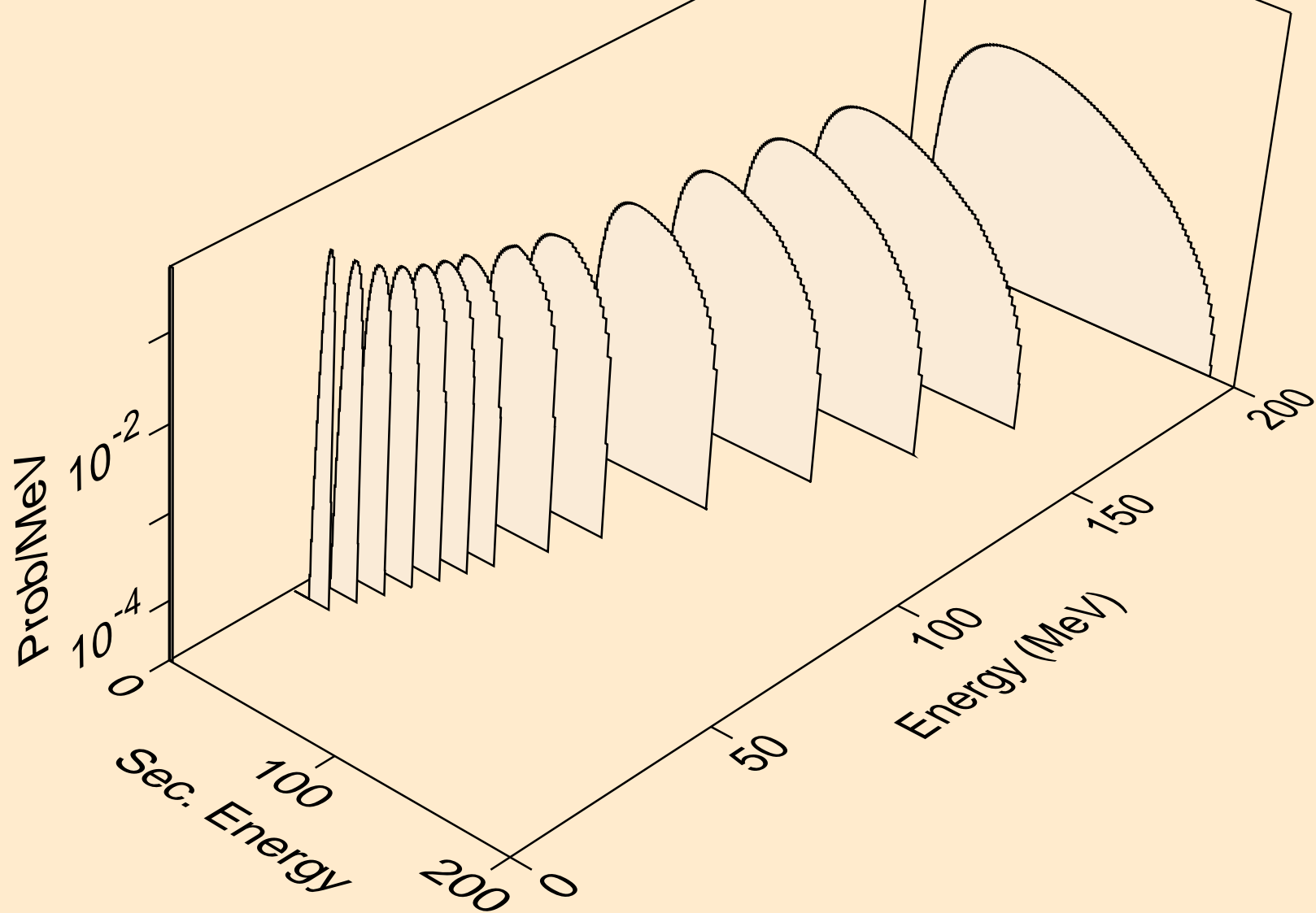
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tritons from (p,t)



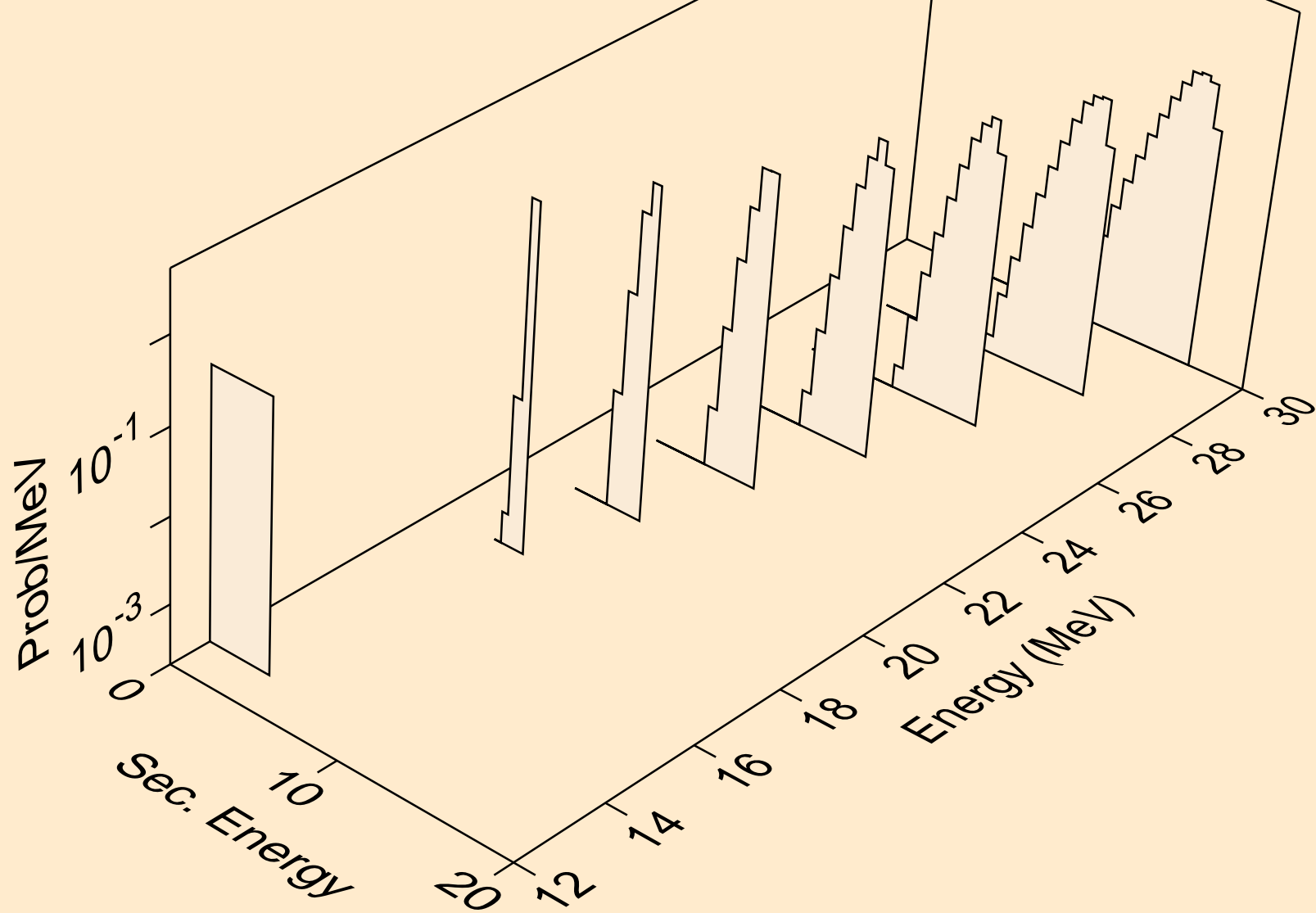
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tritons from (p,pt)



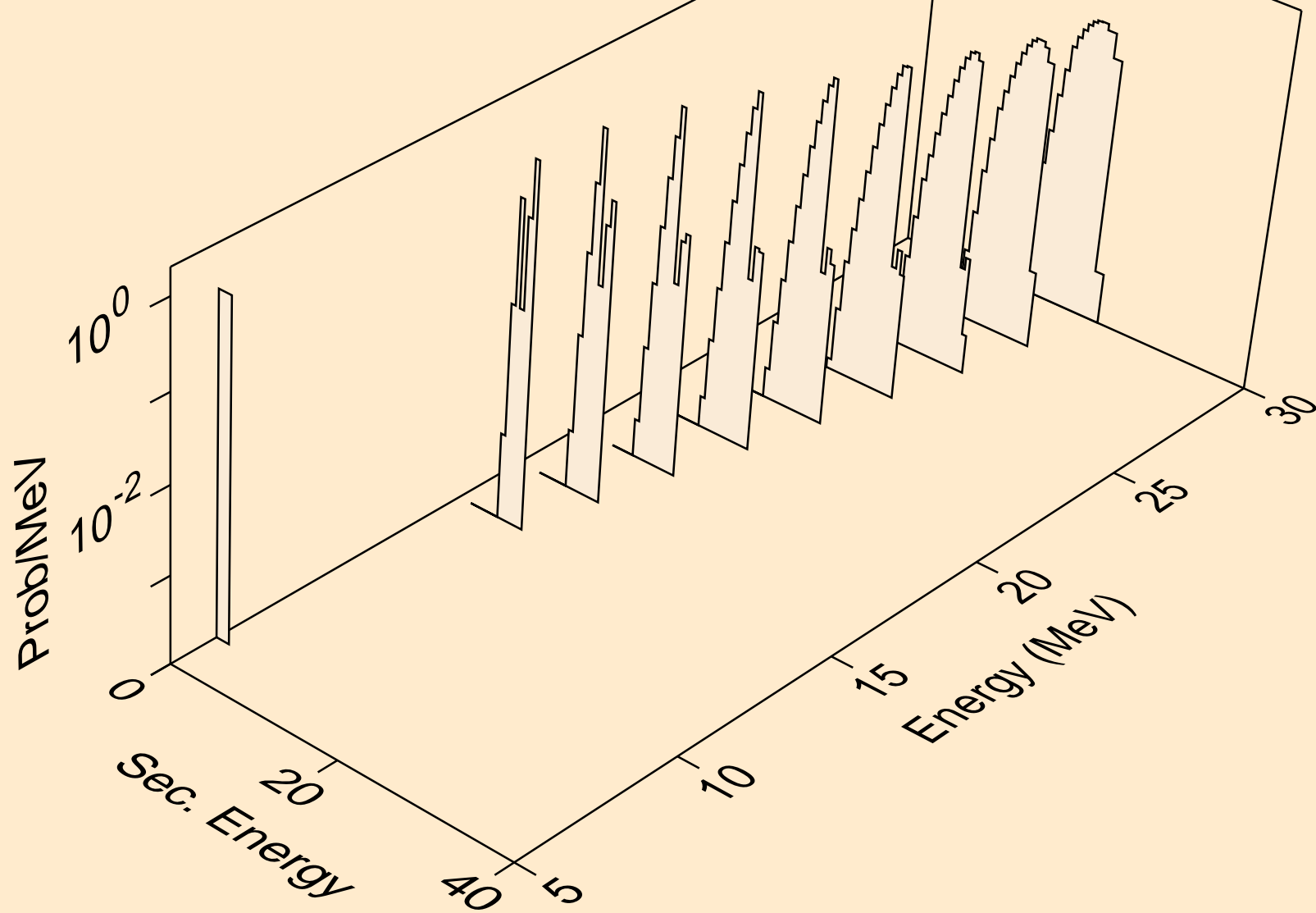
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he3s from (p,x)



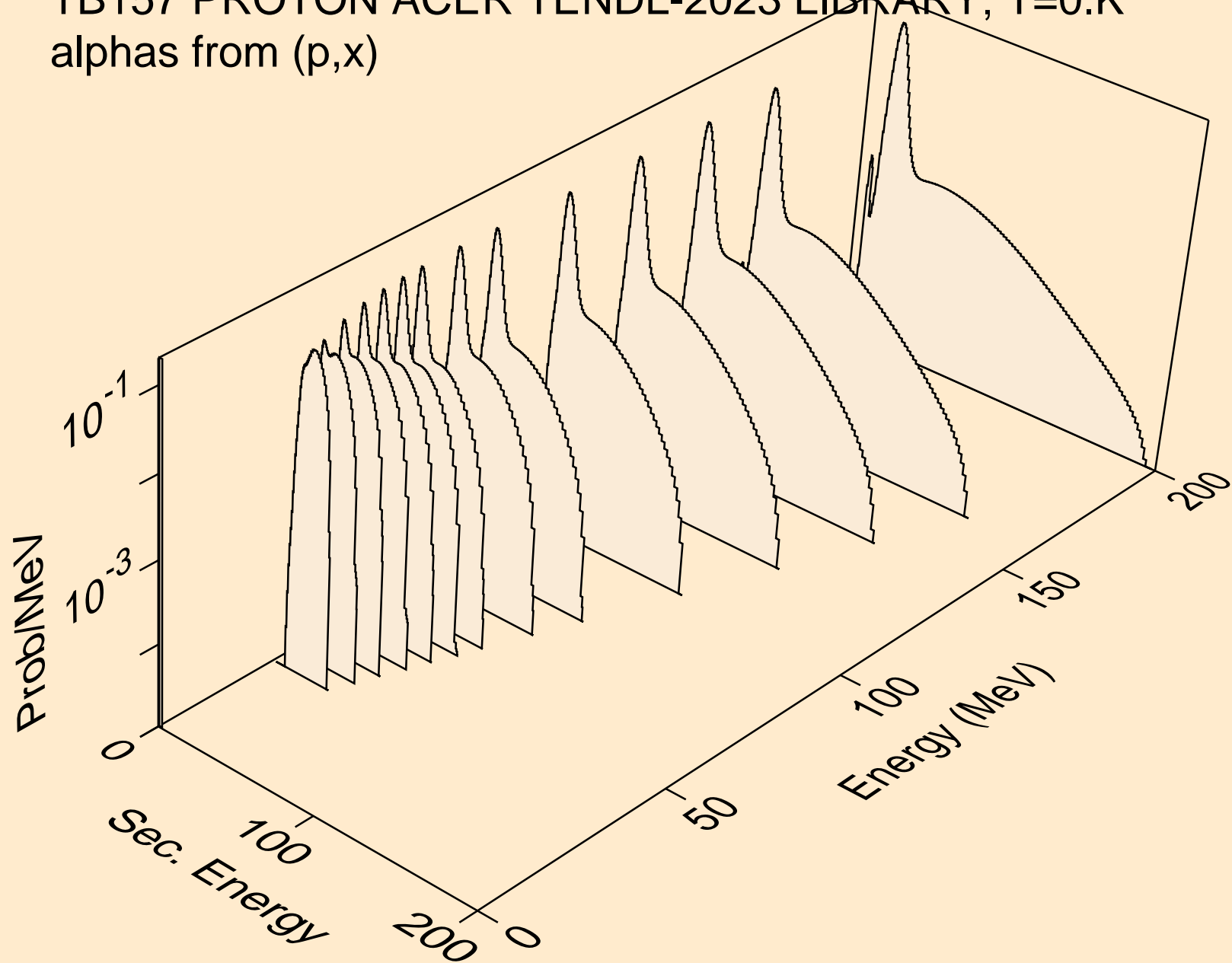
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



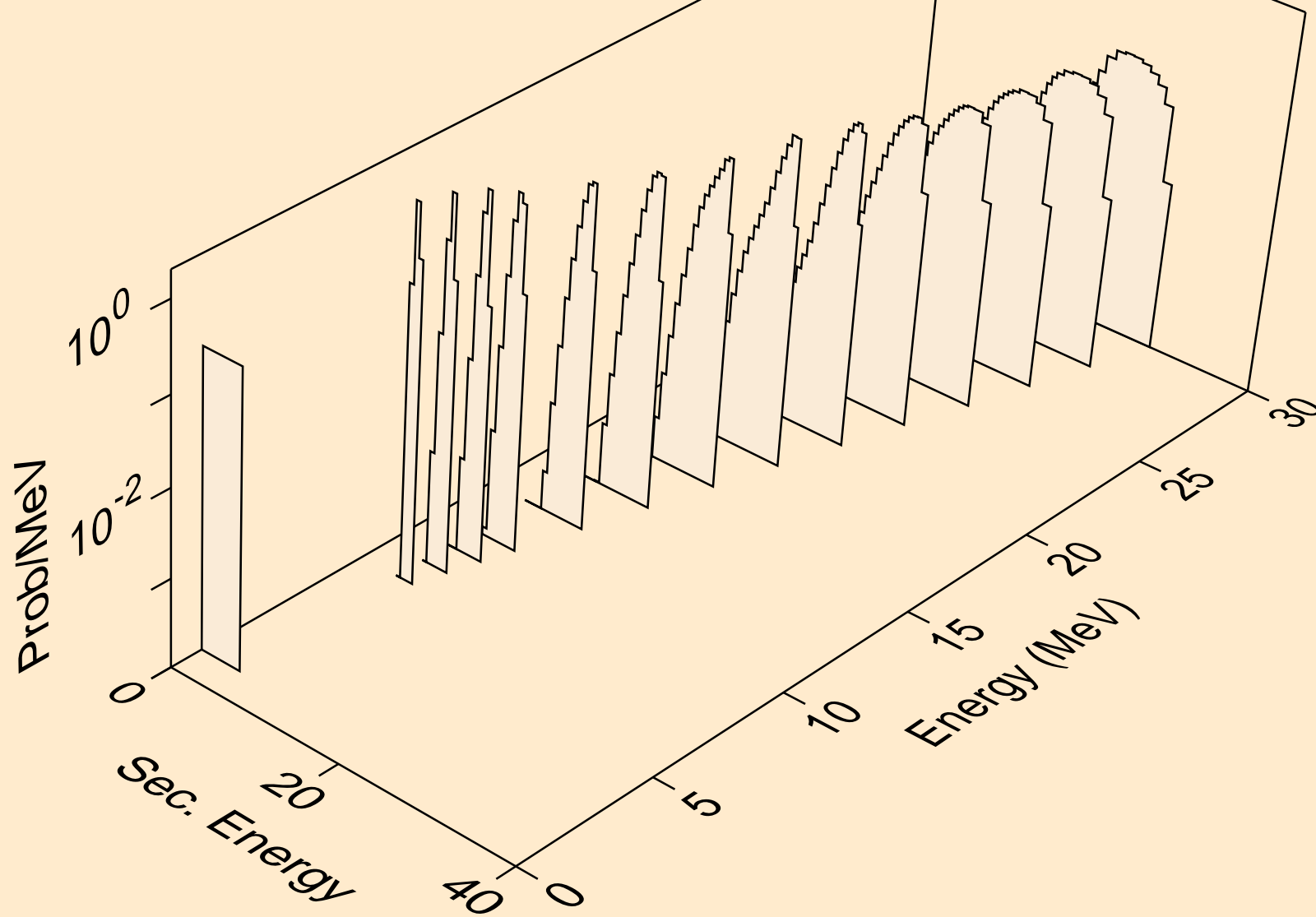
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

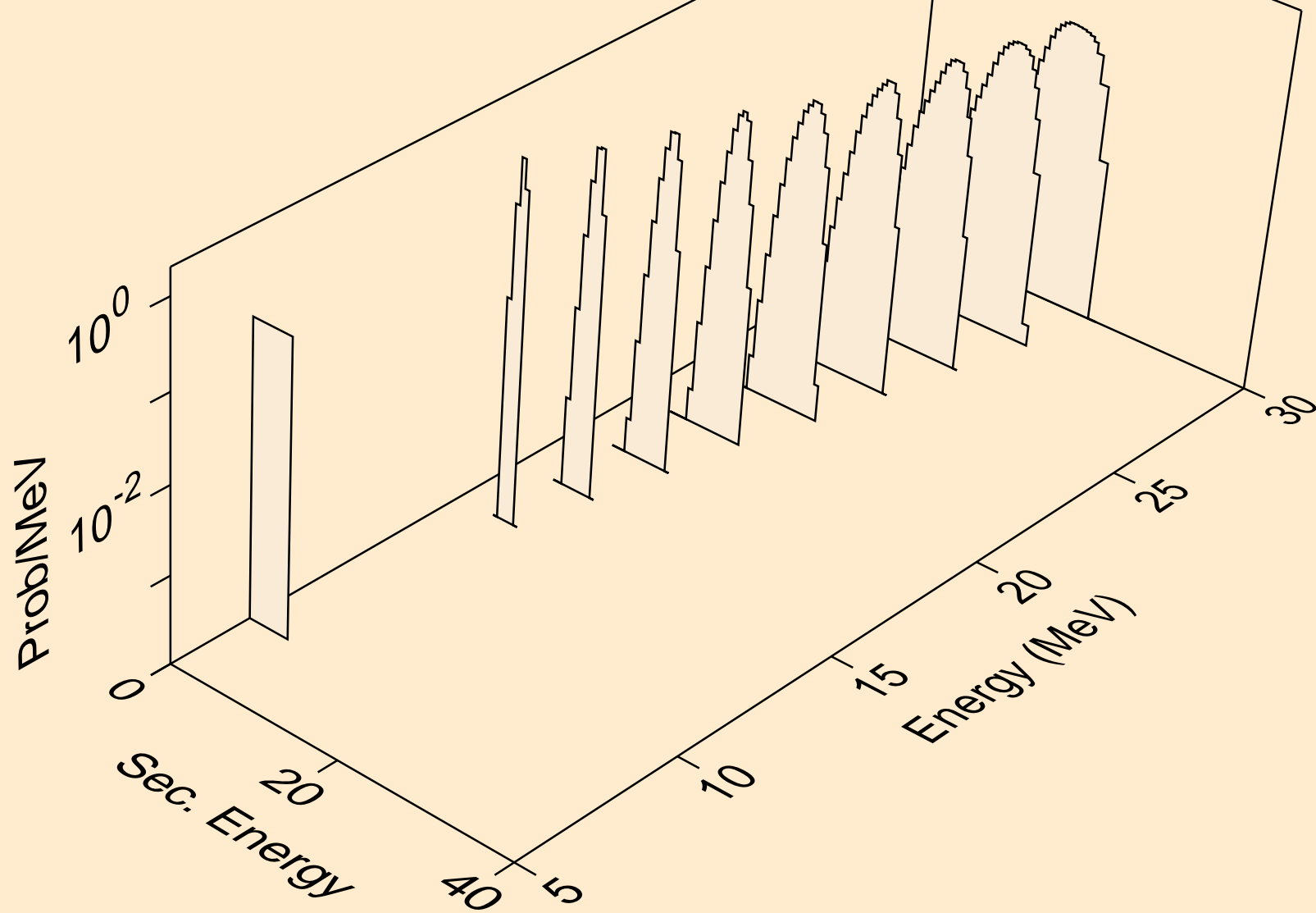


TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

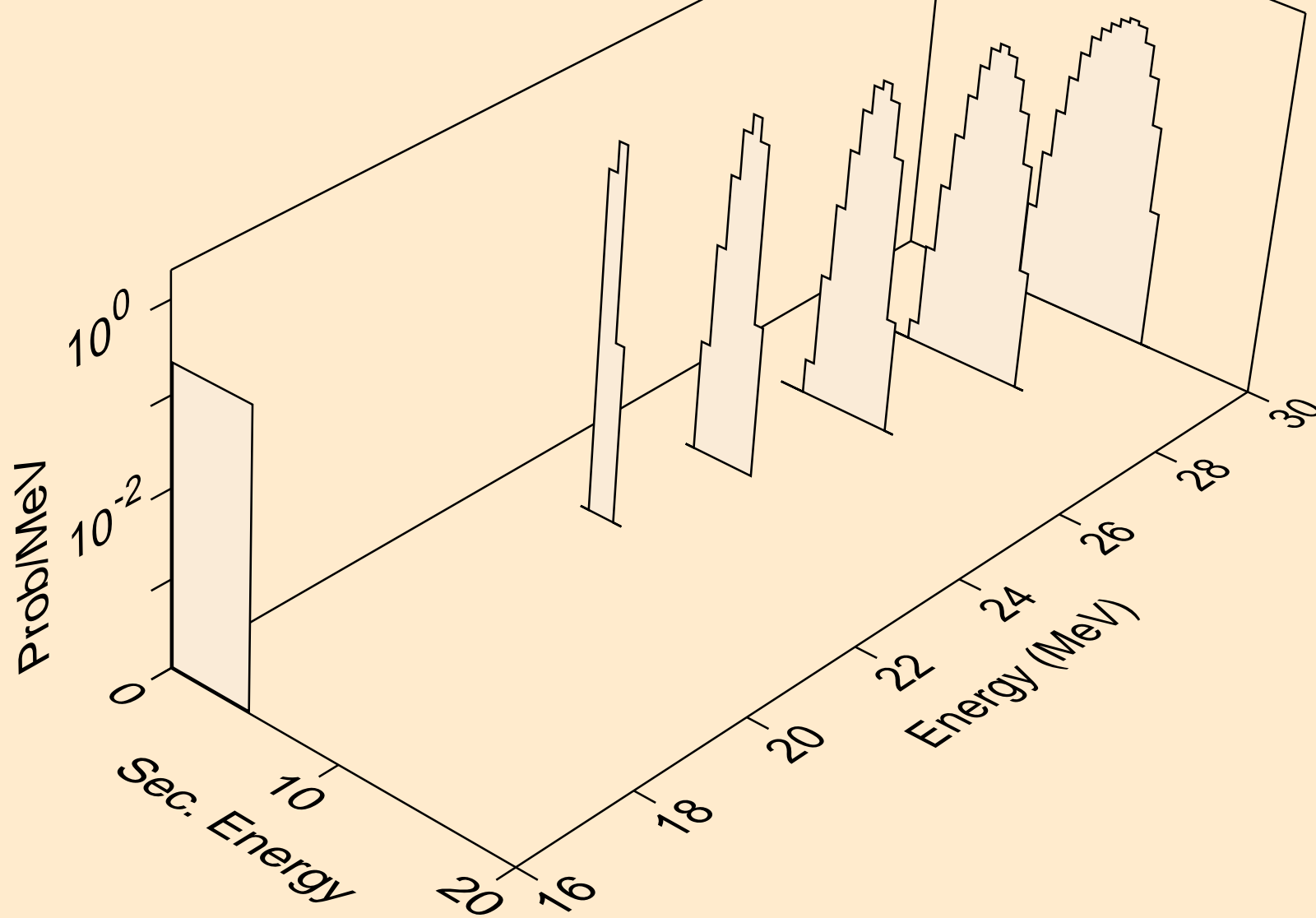




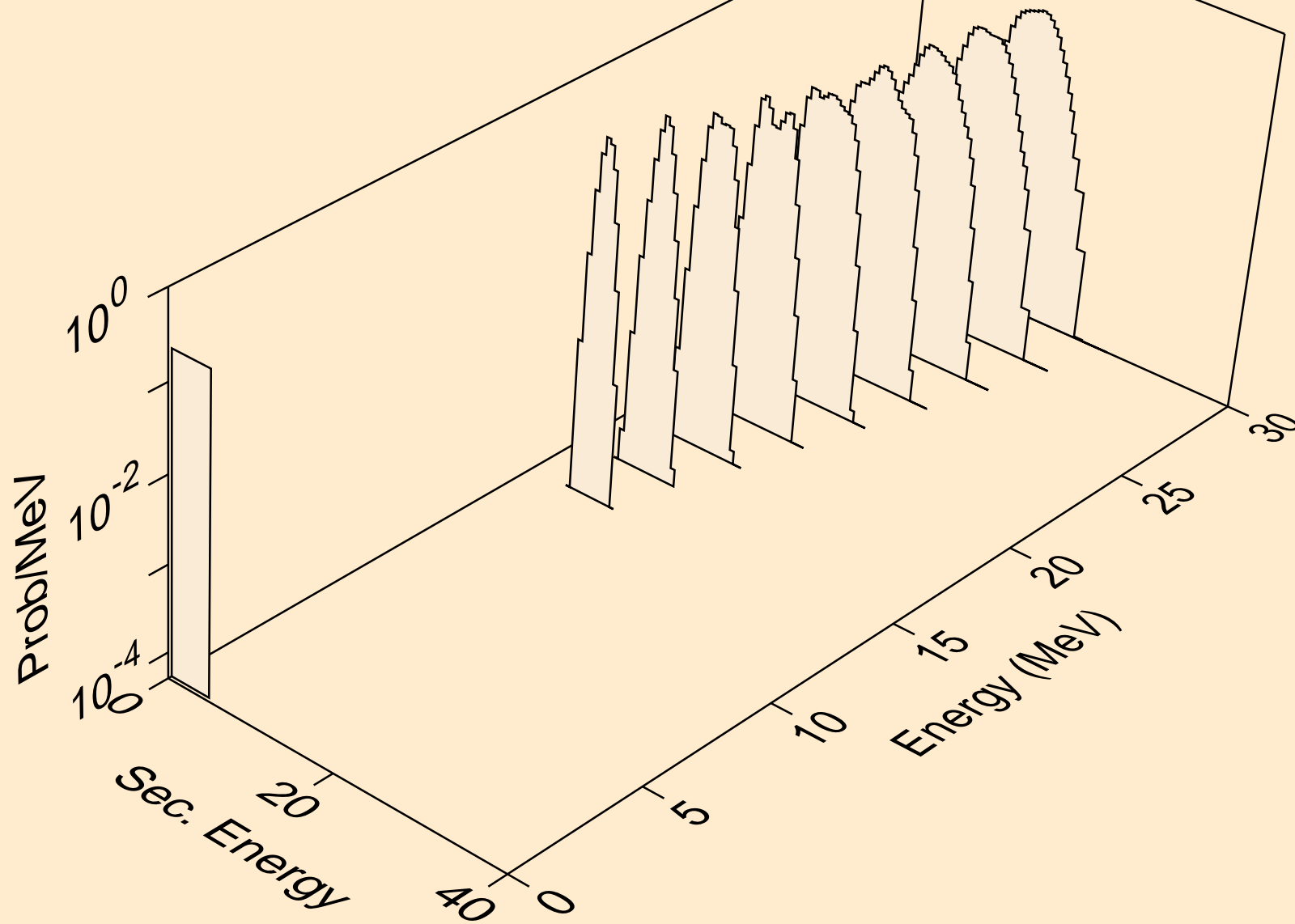
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



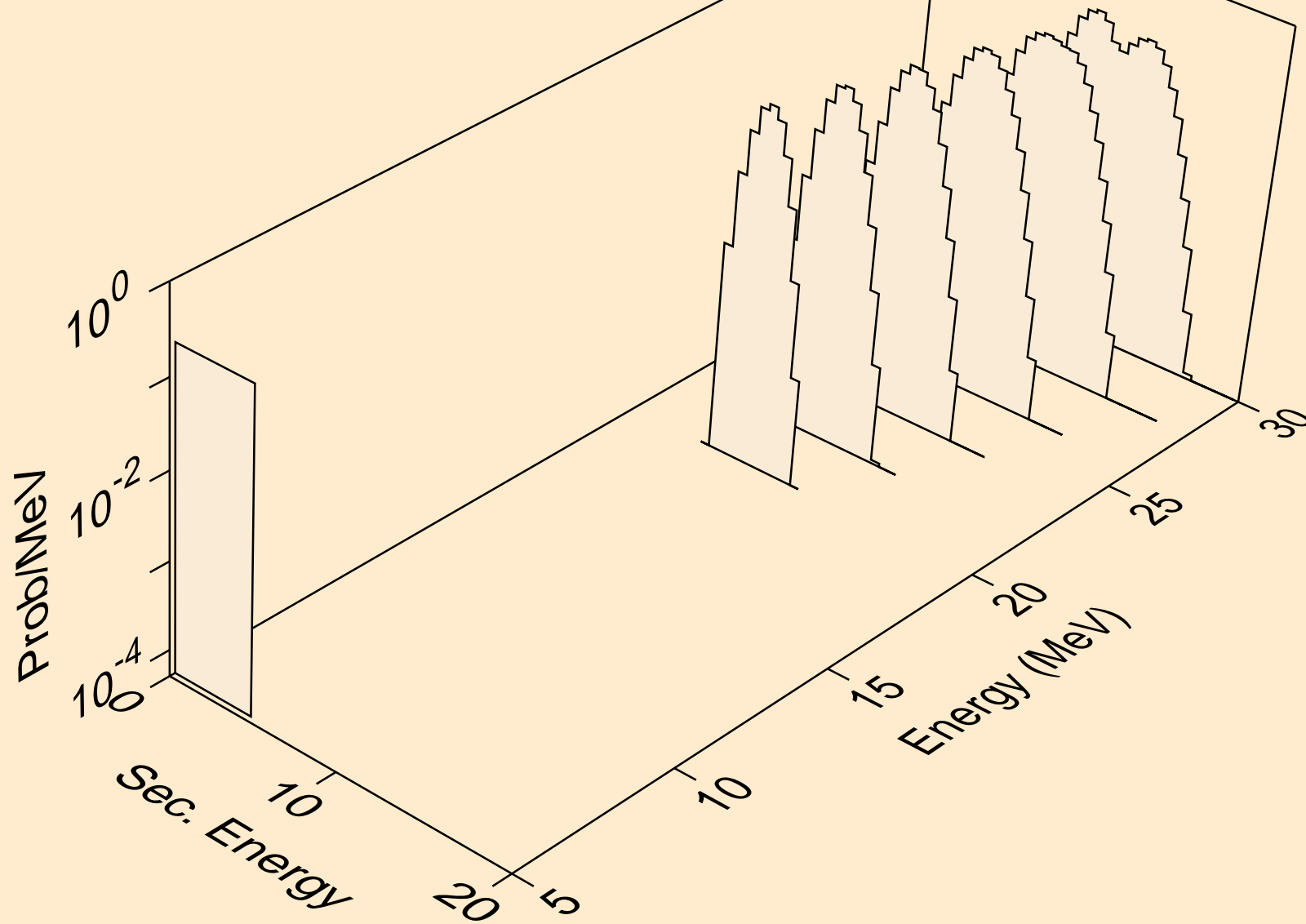
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alphas from (p,3n)a



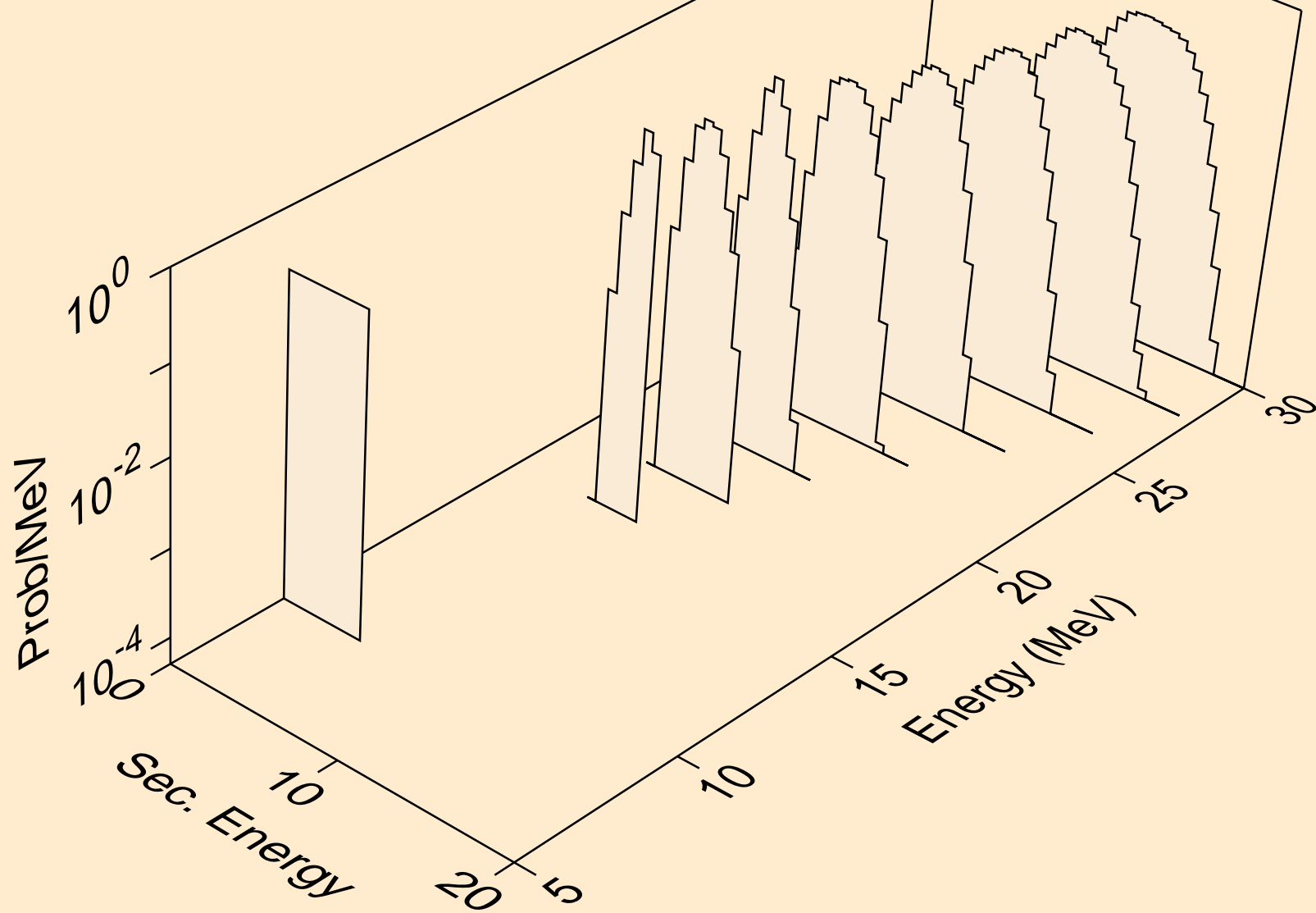
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



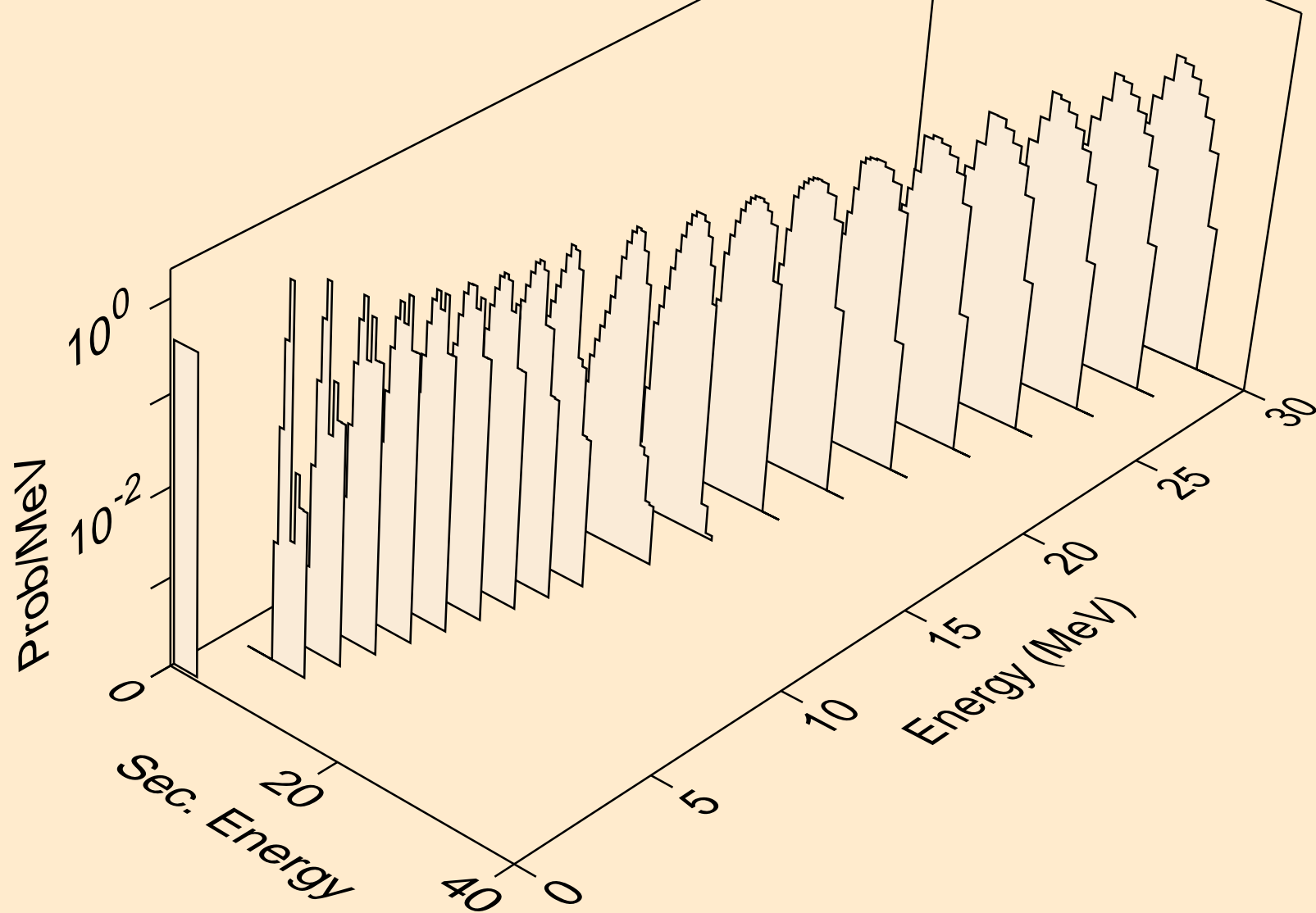
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)2a



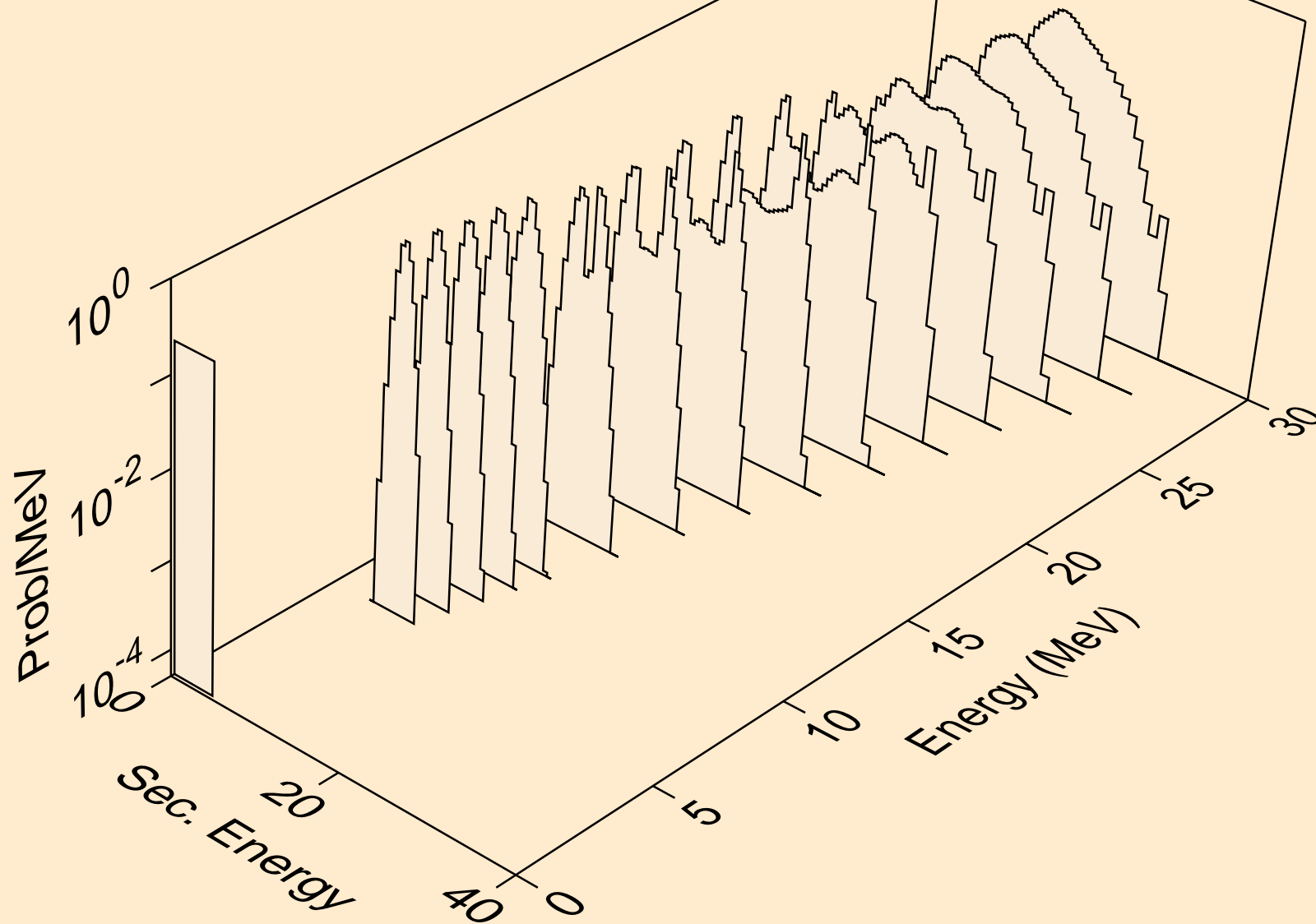
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



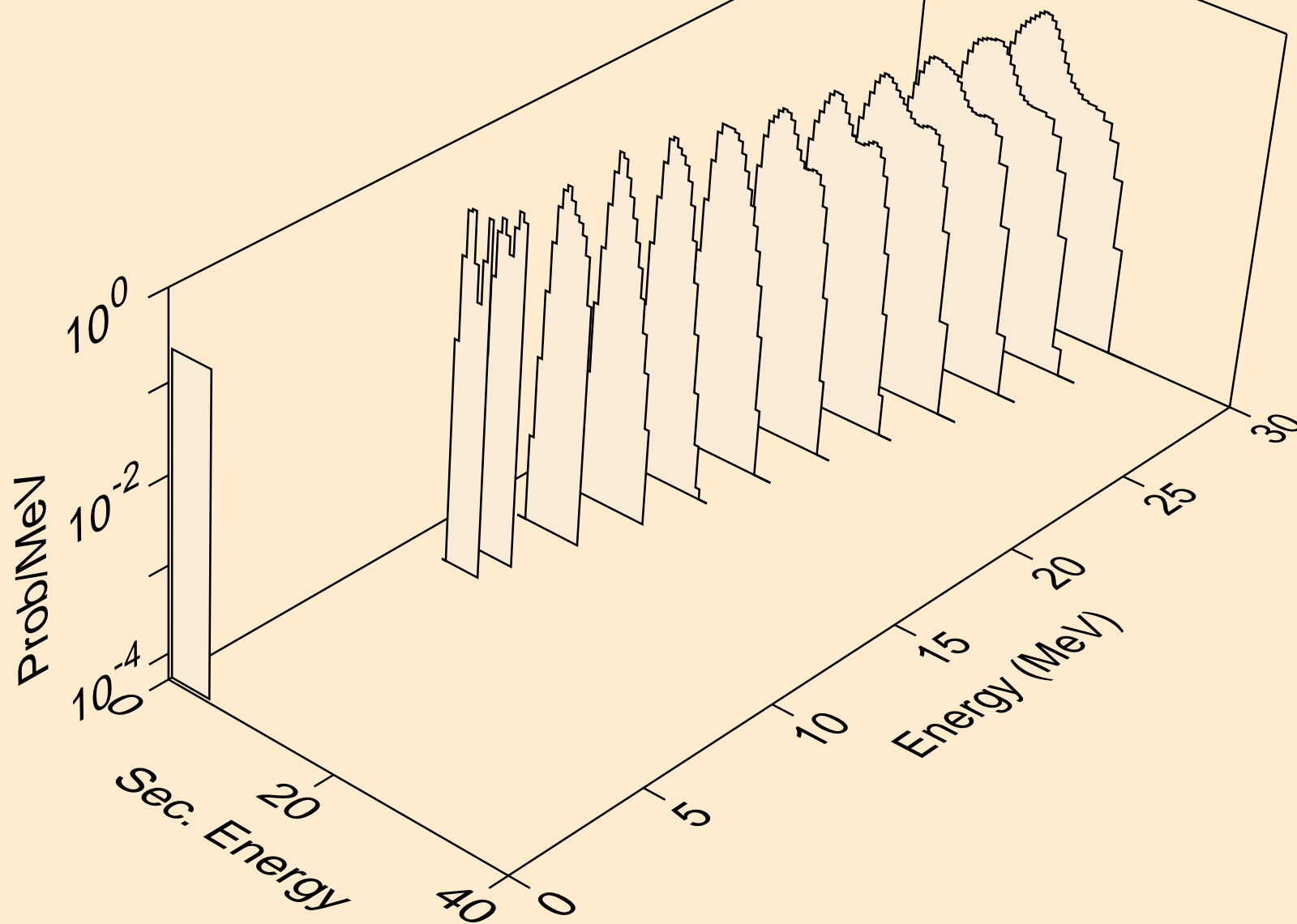
TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)





TB157 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

