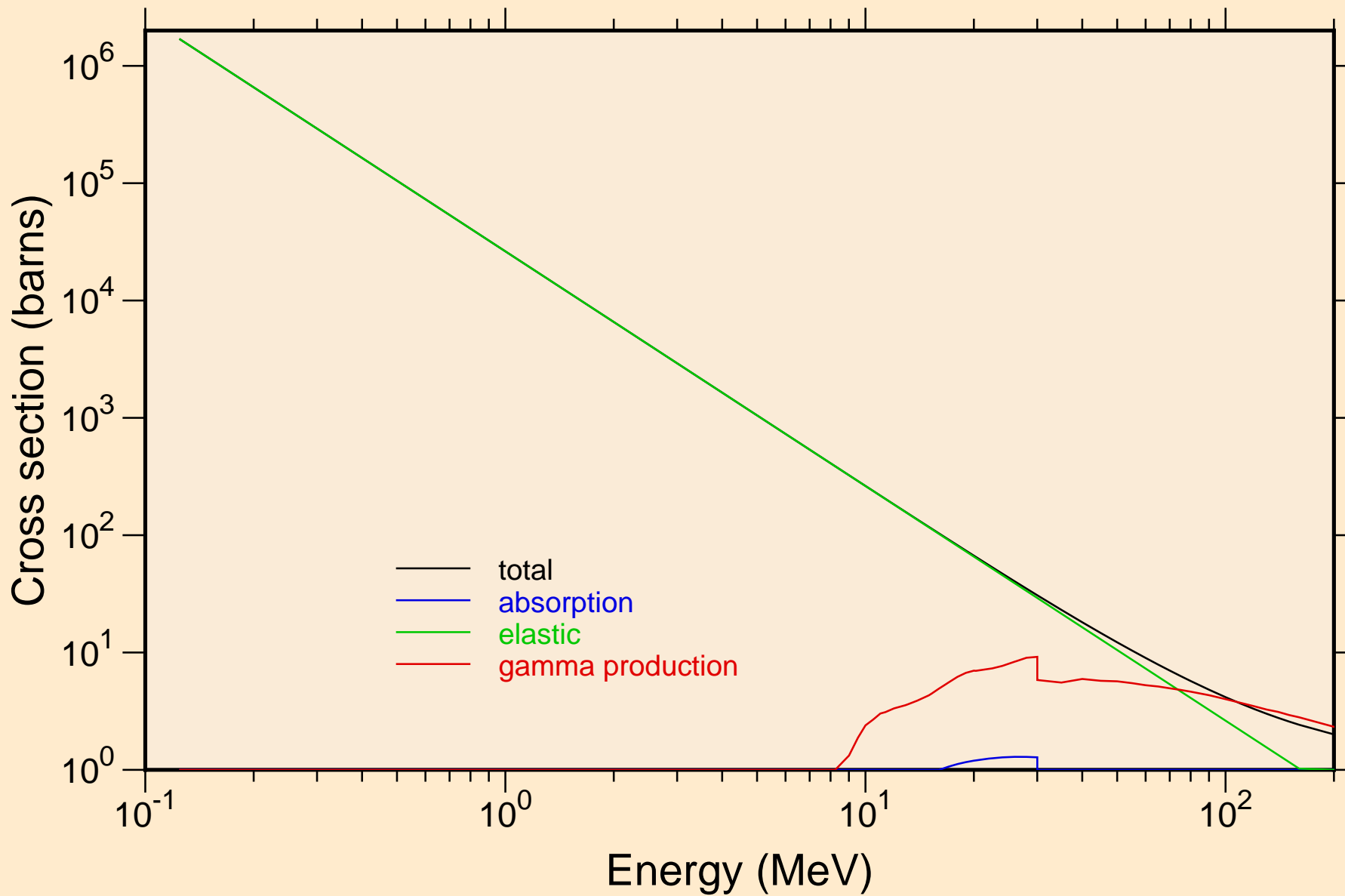
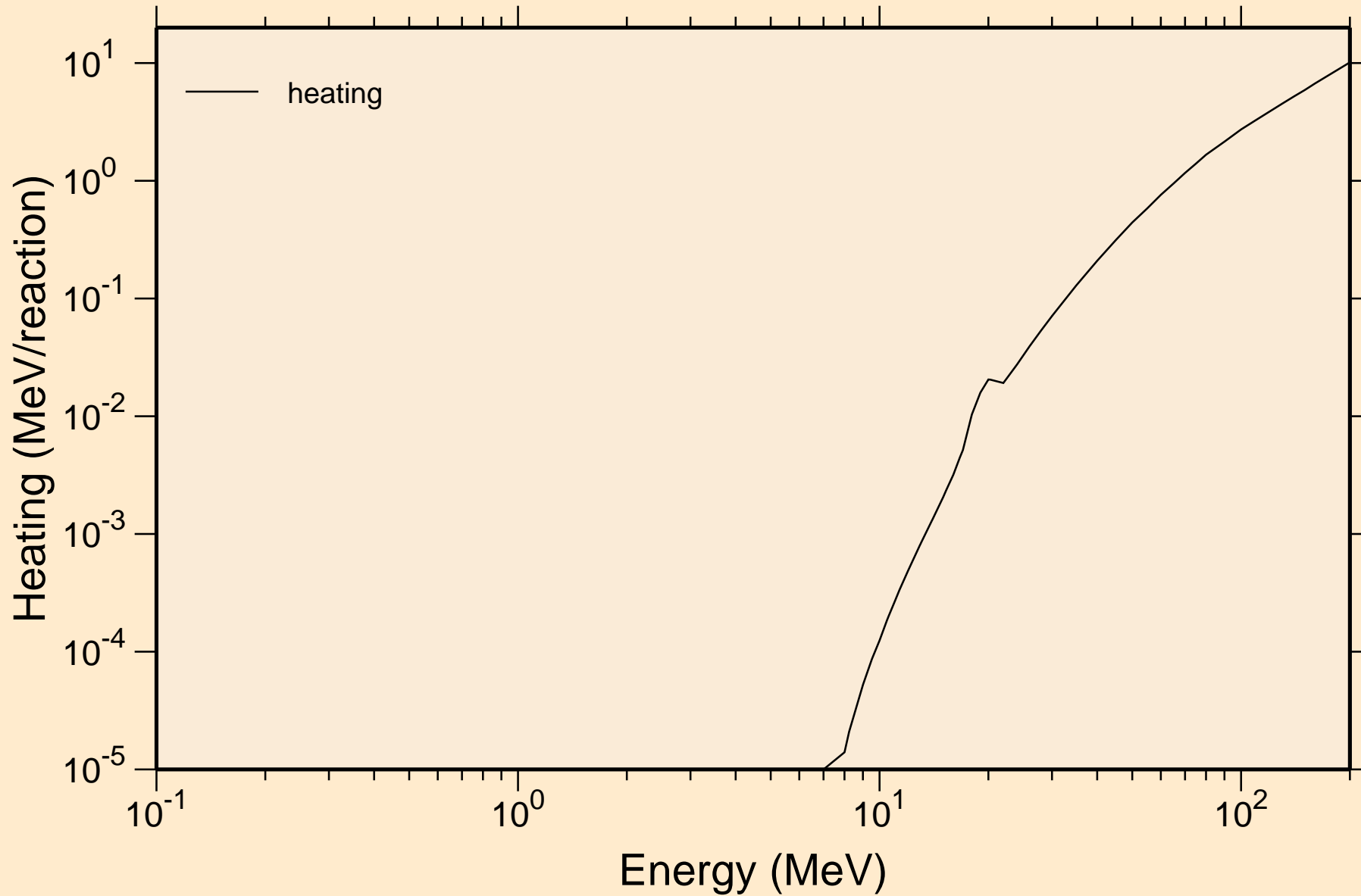


# TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

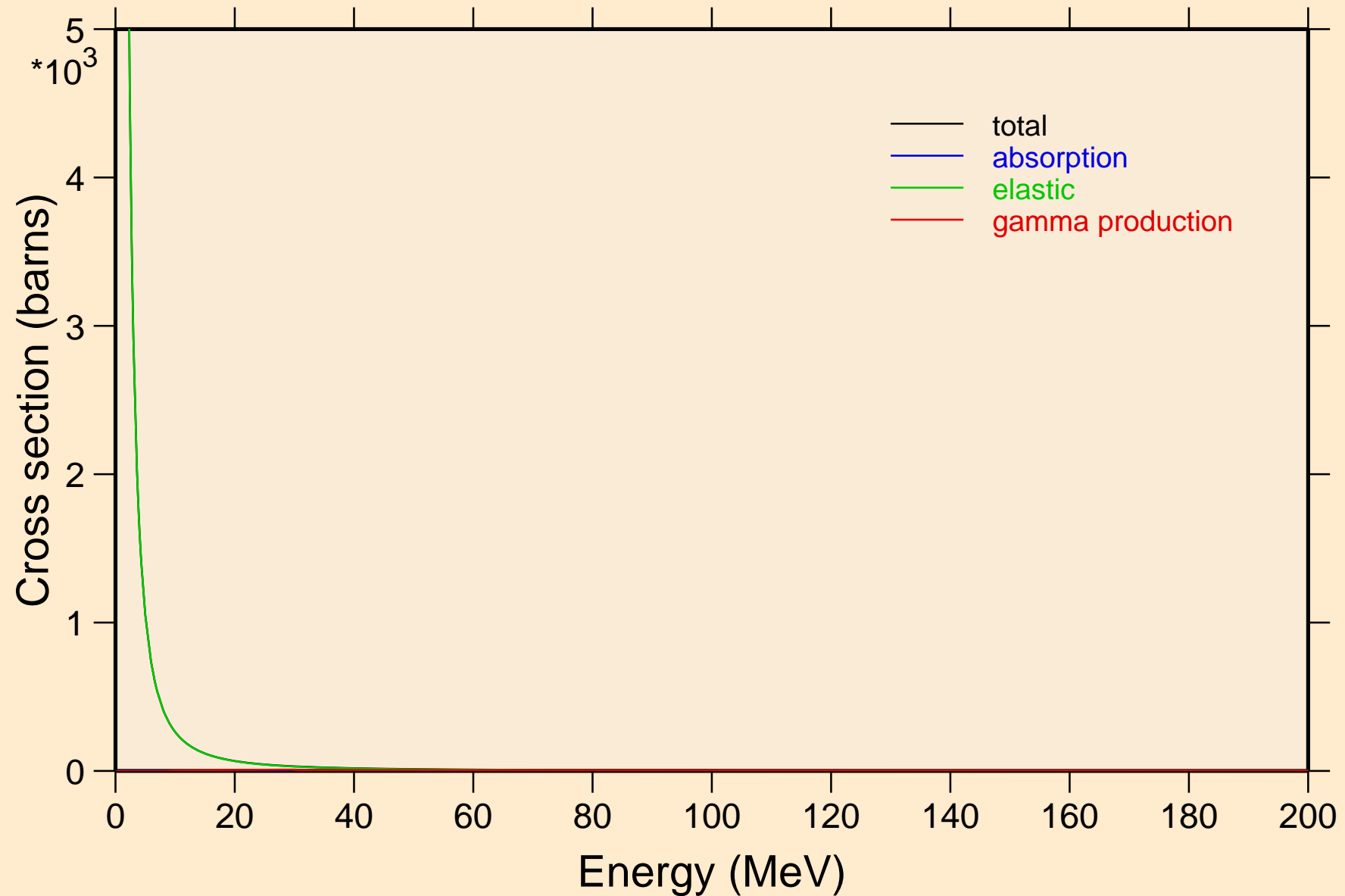


TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



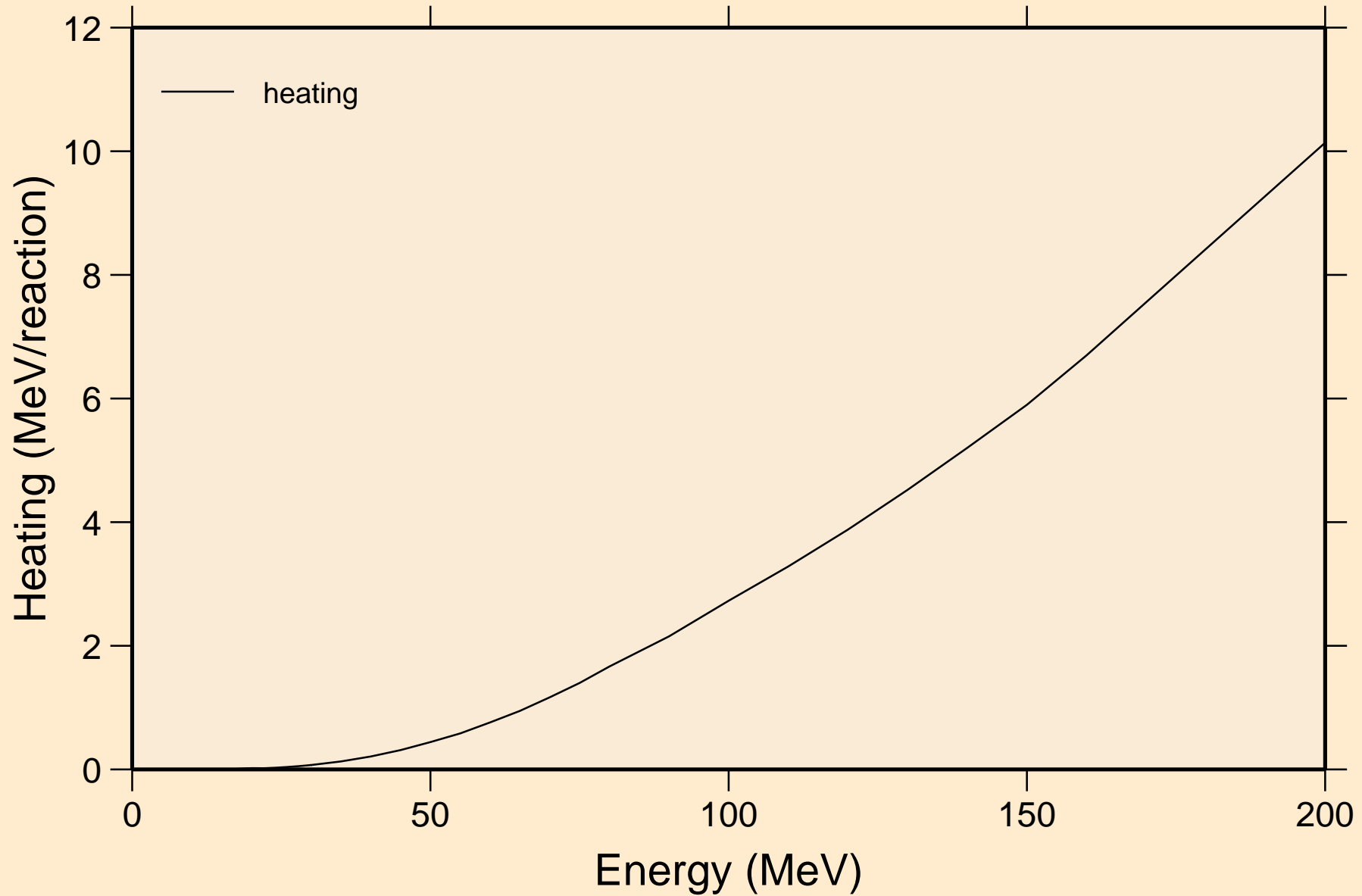
# TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

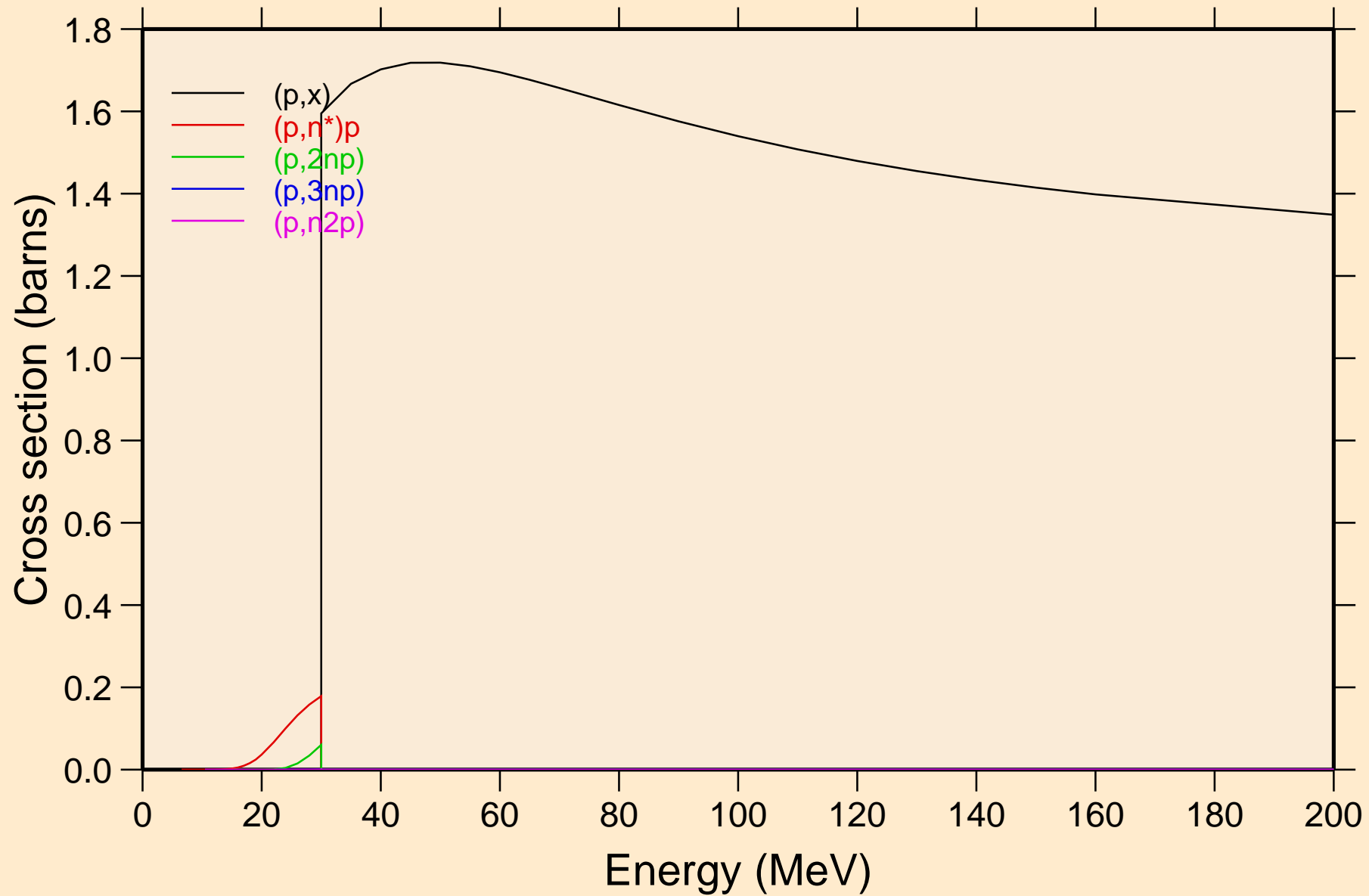


TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K

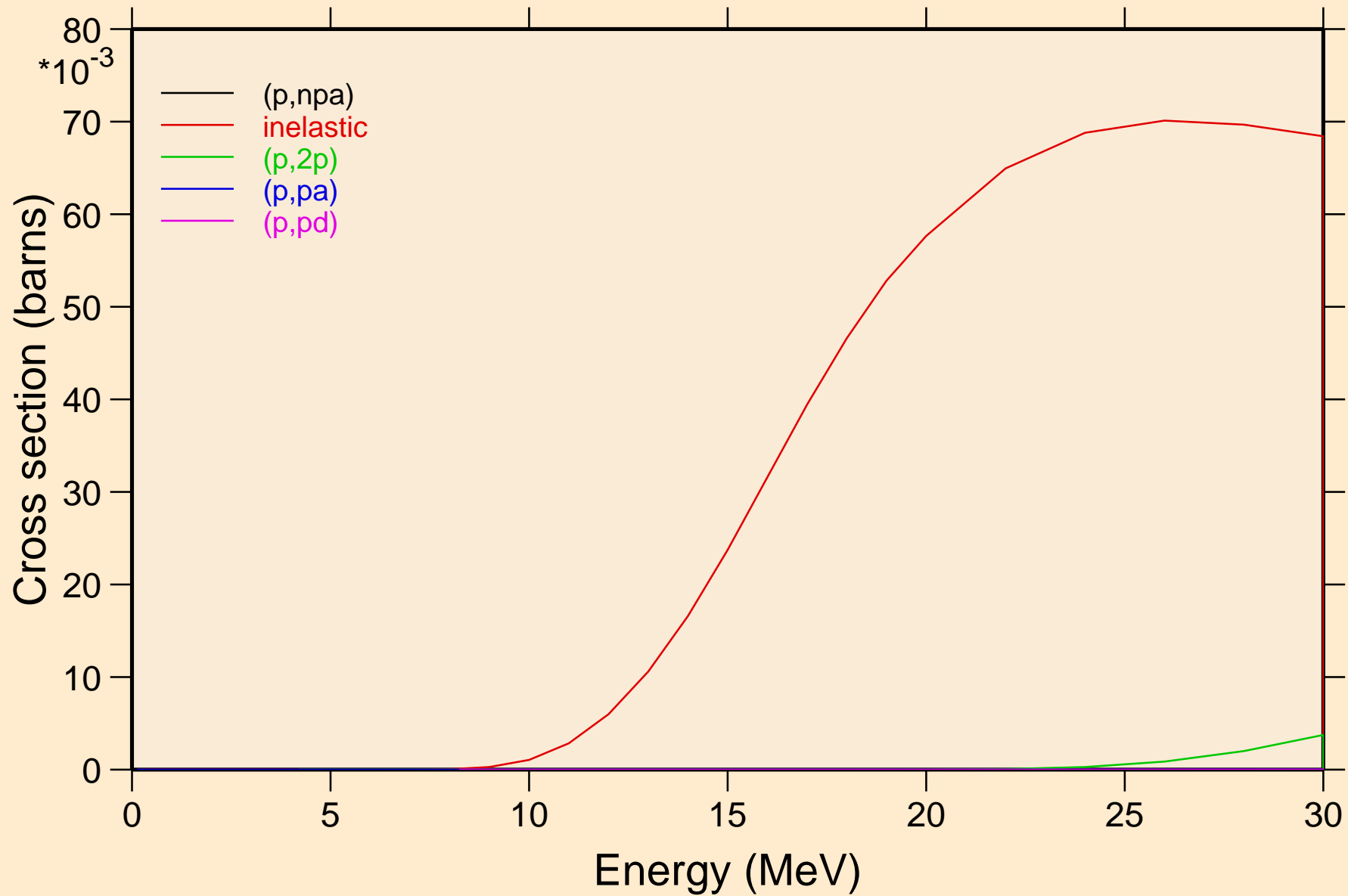
Heating



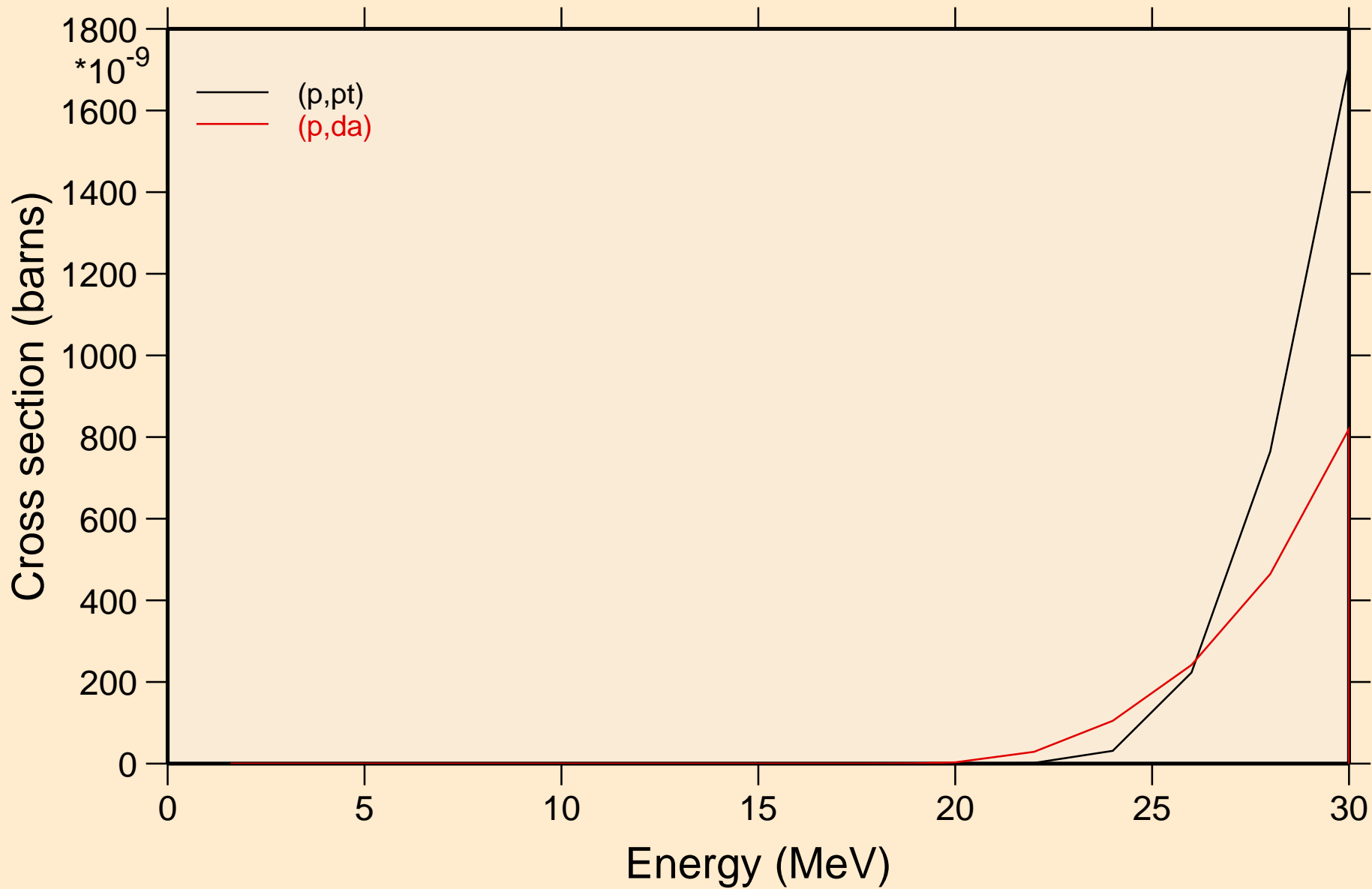
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Threshold reactions



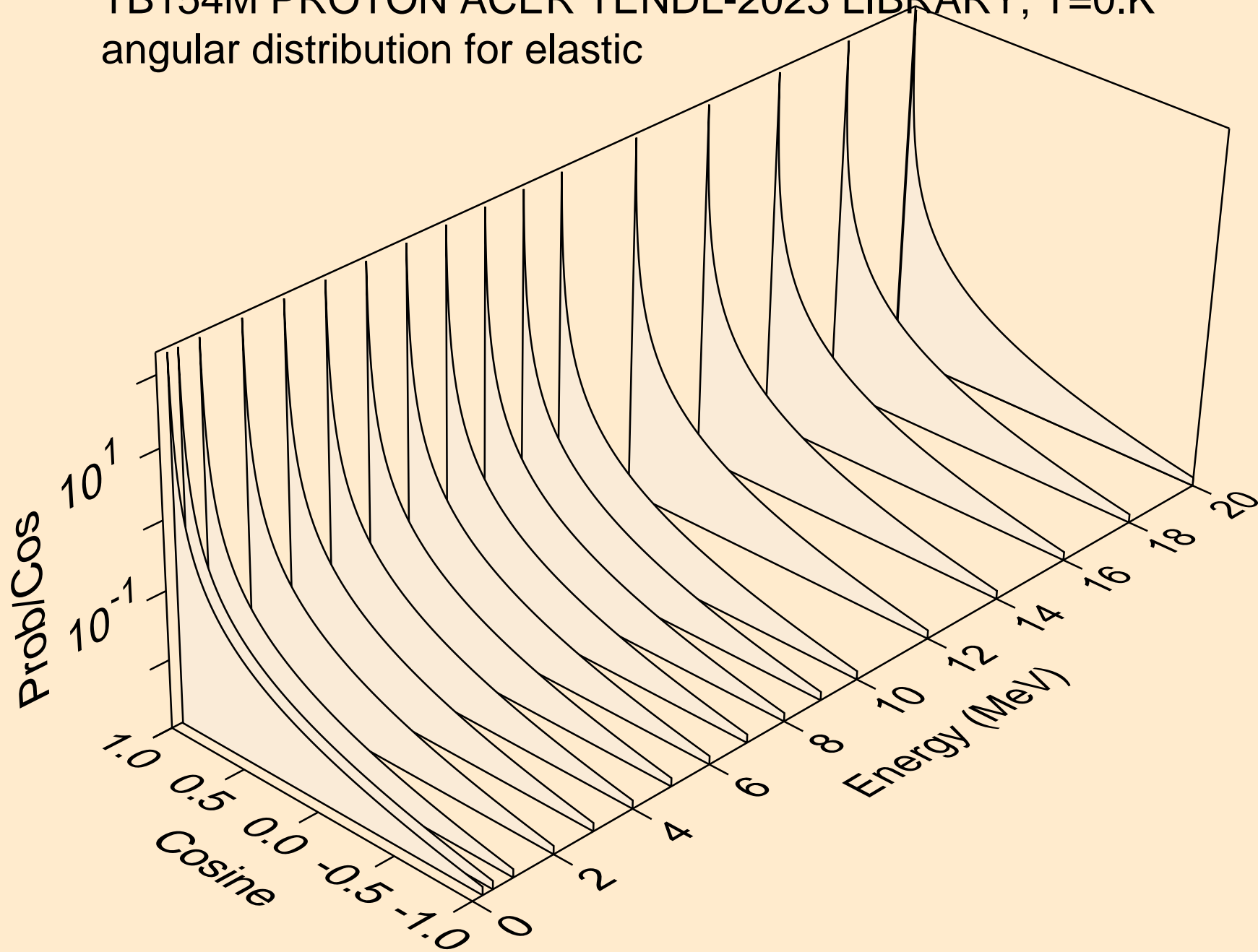
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Threshold reactions



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

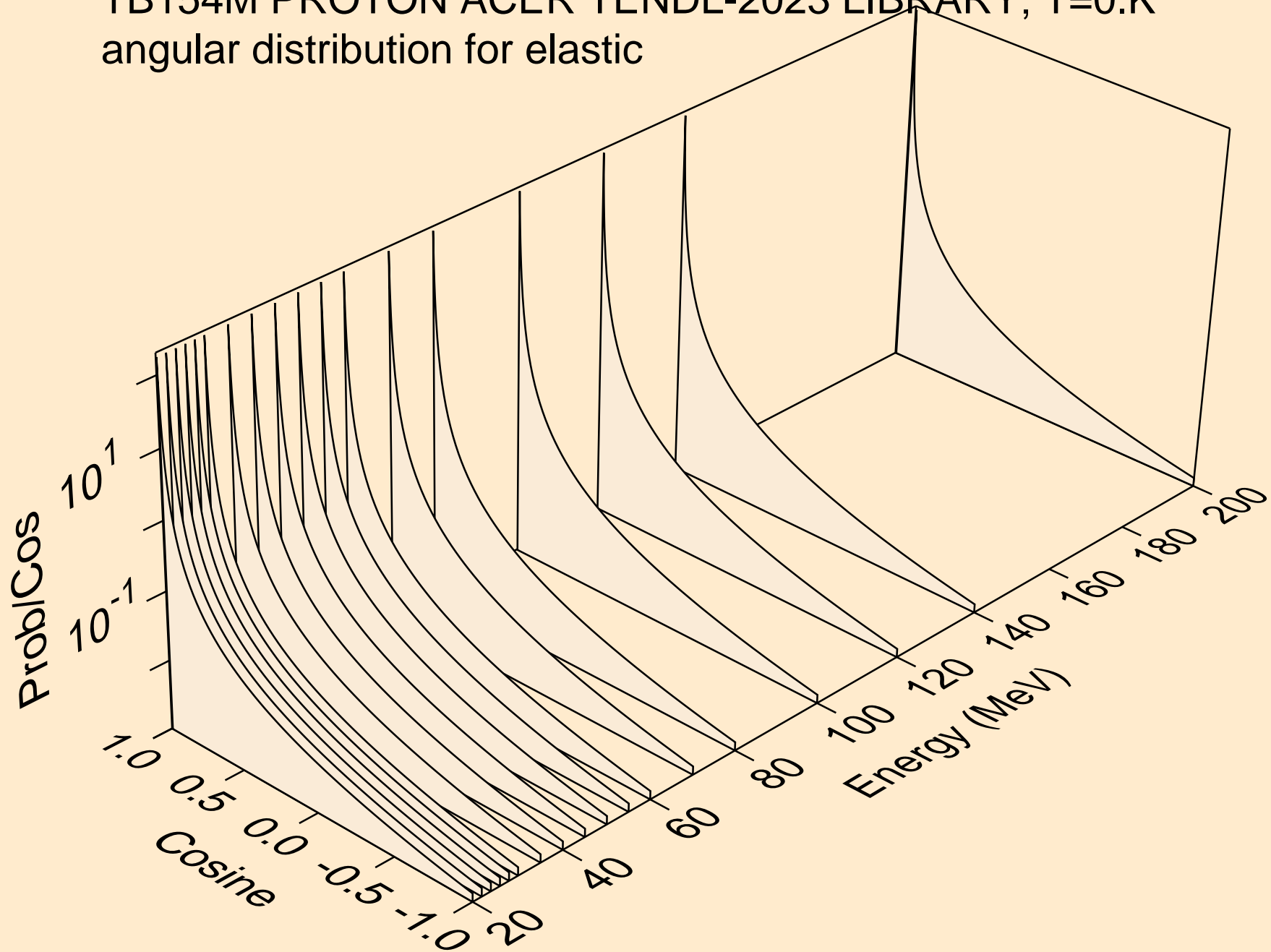


TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

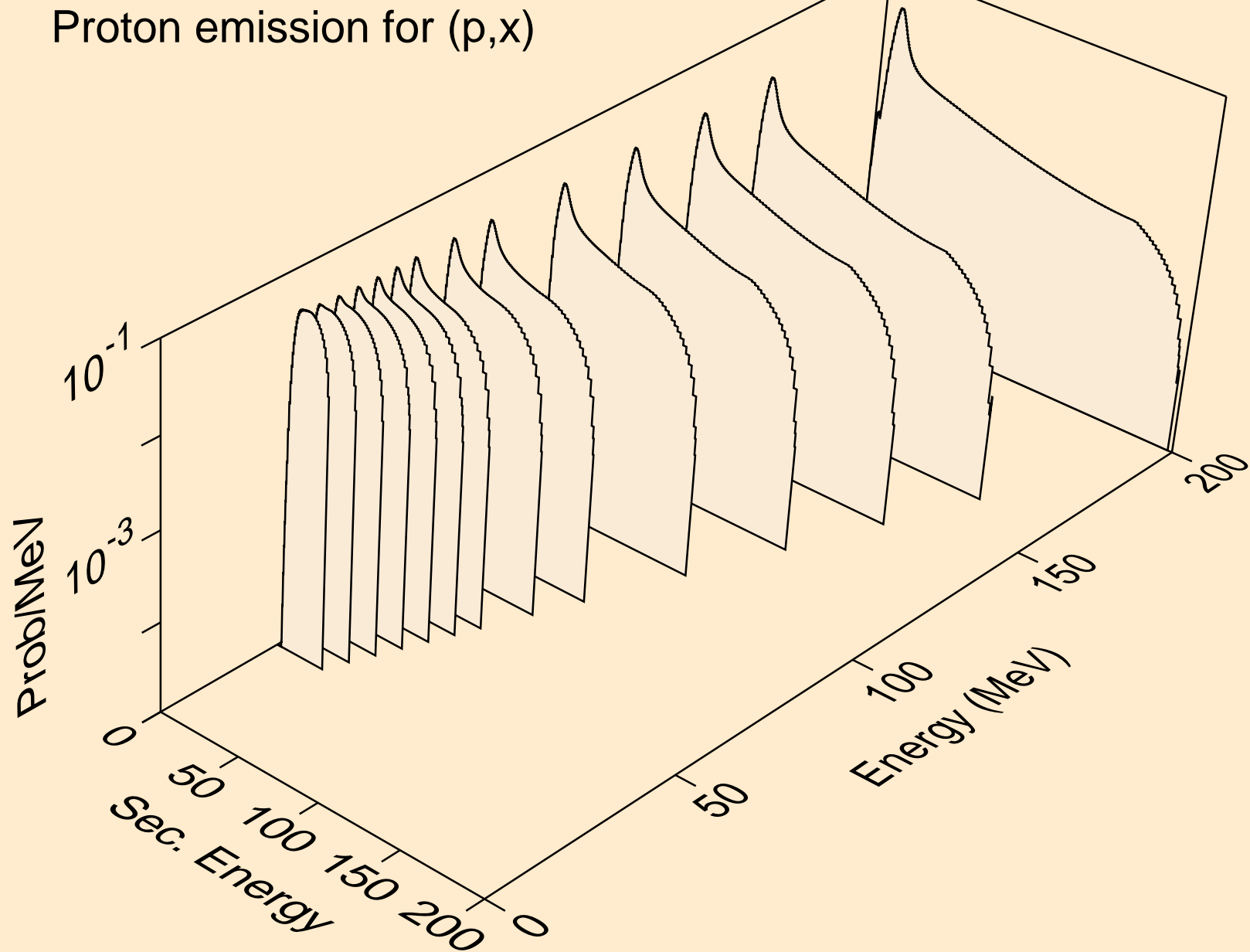




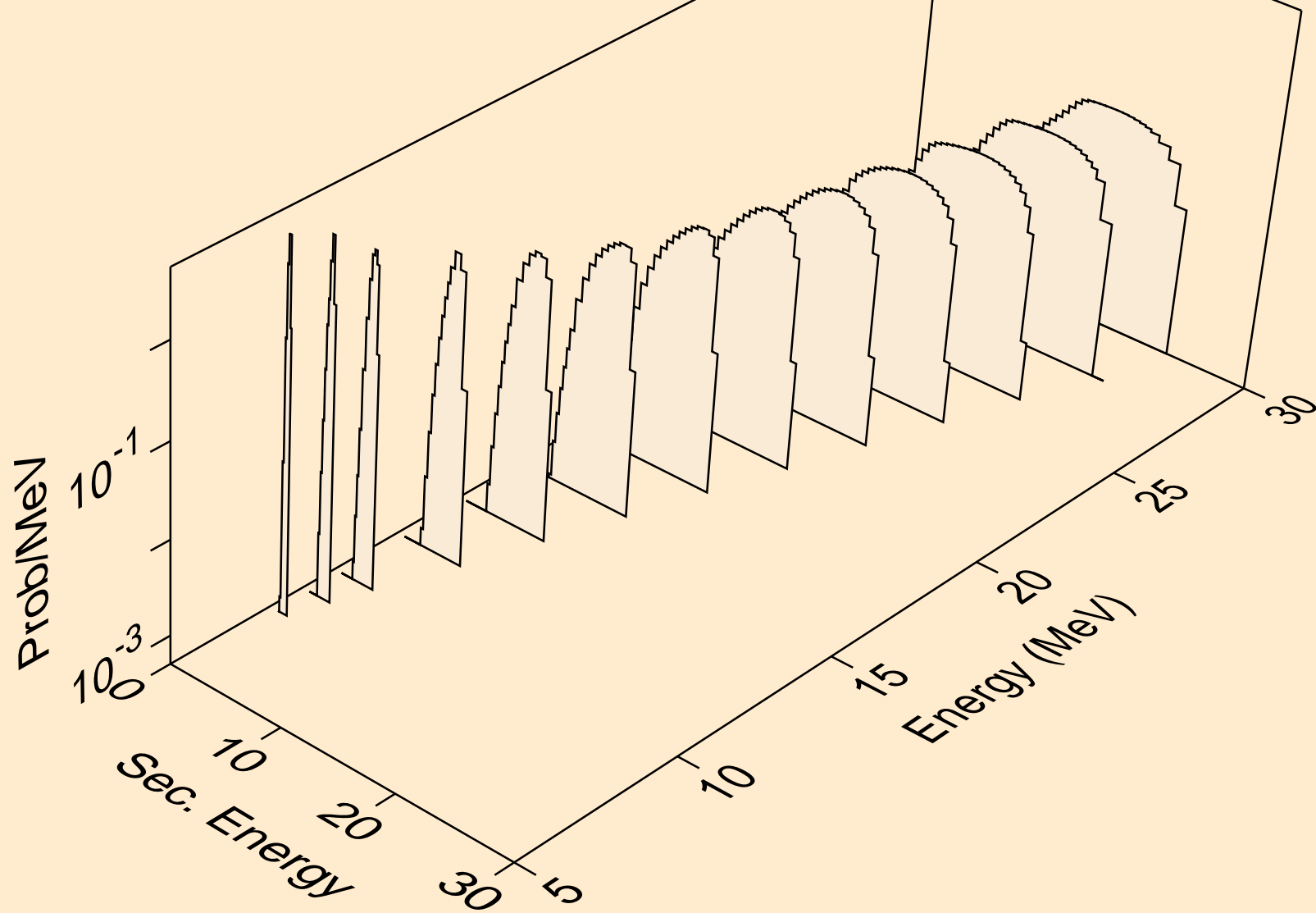
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angular distribution for elastic



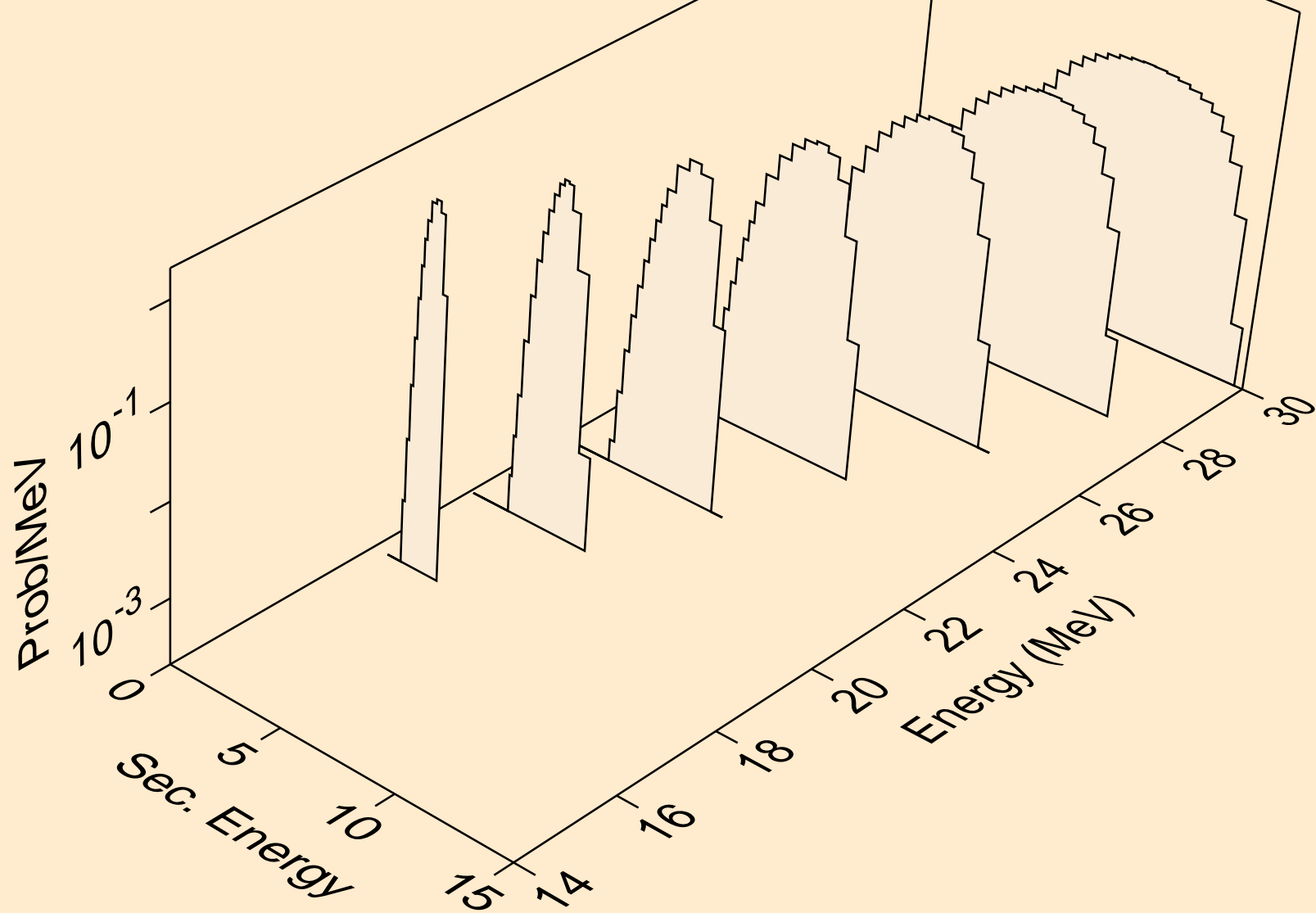
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



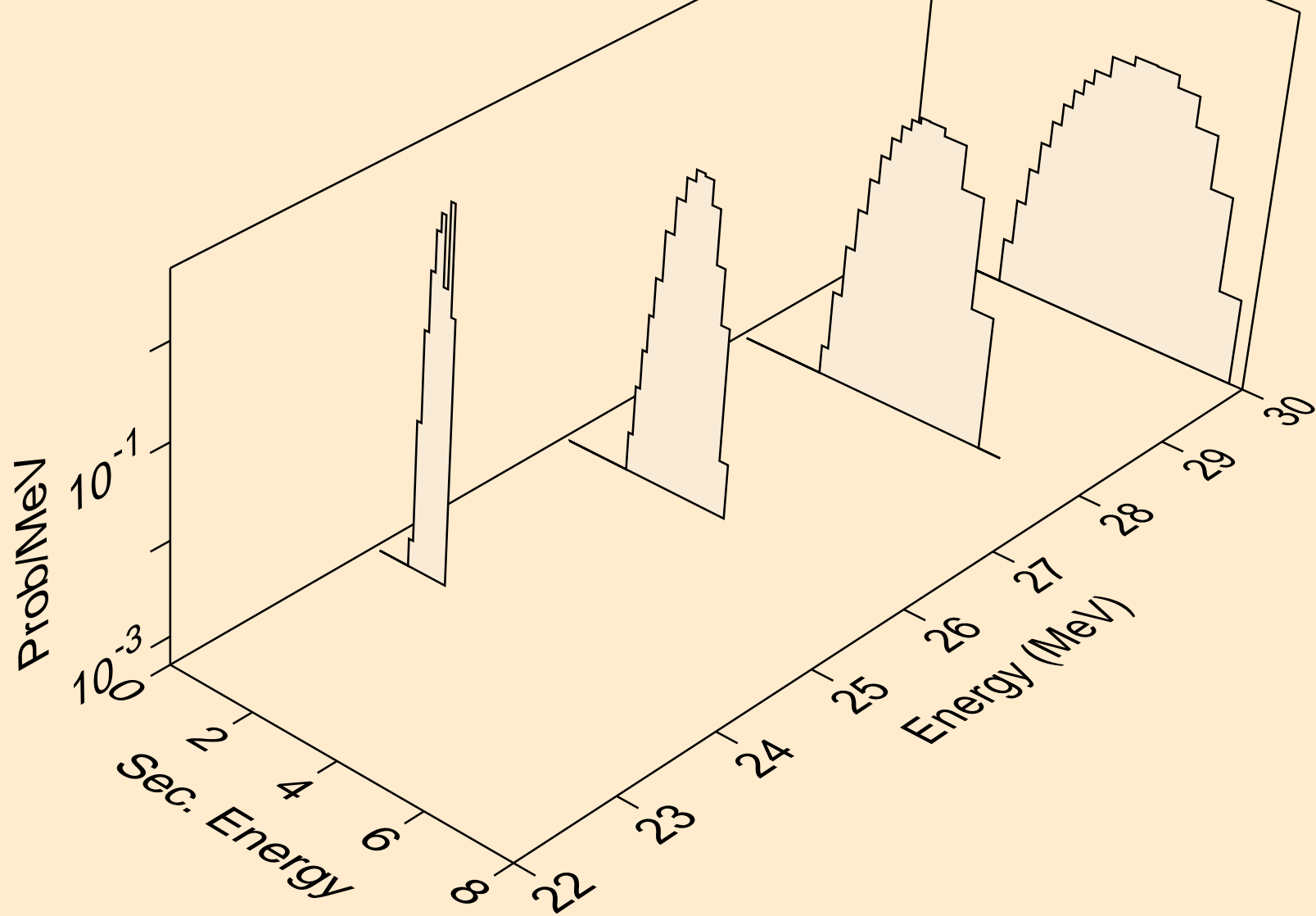
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Proton emission for (p,n\*)p



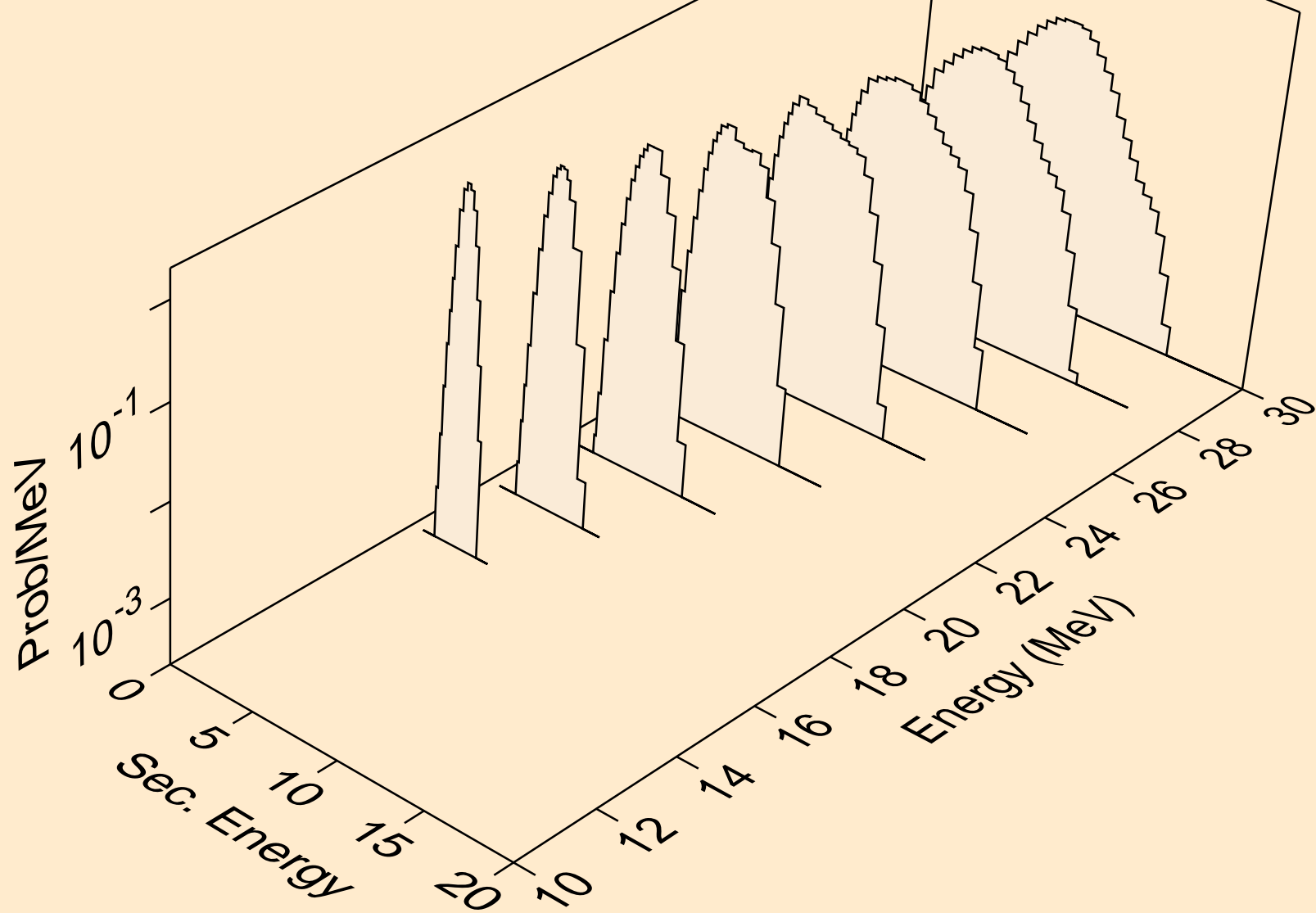
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



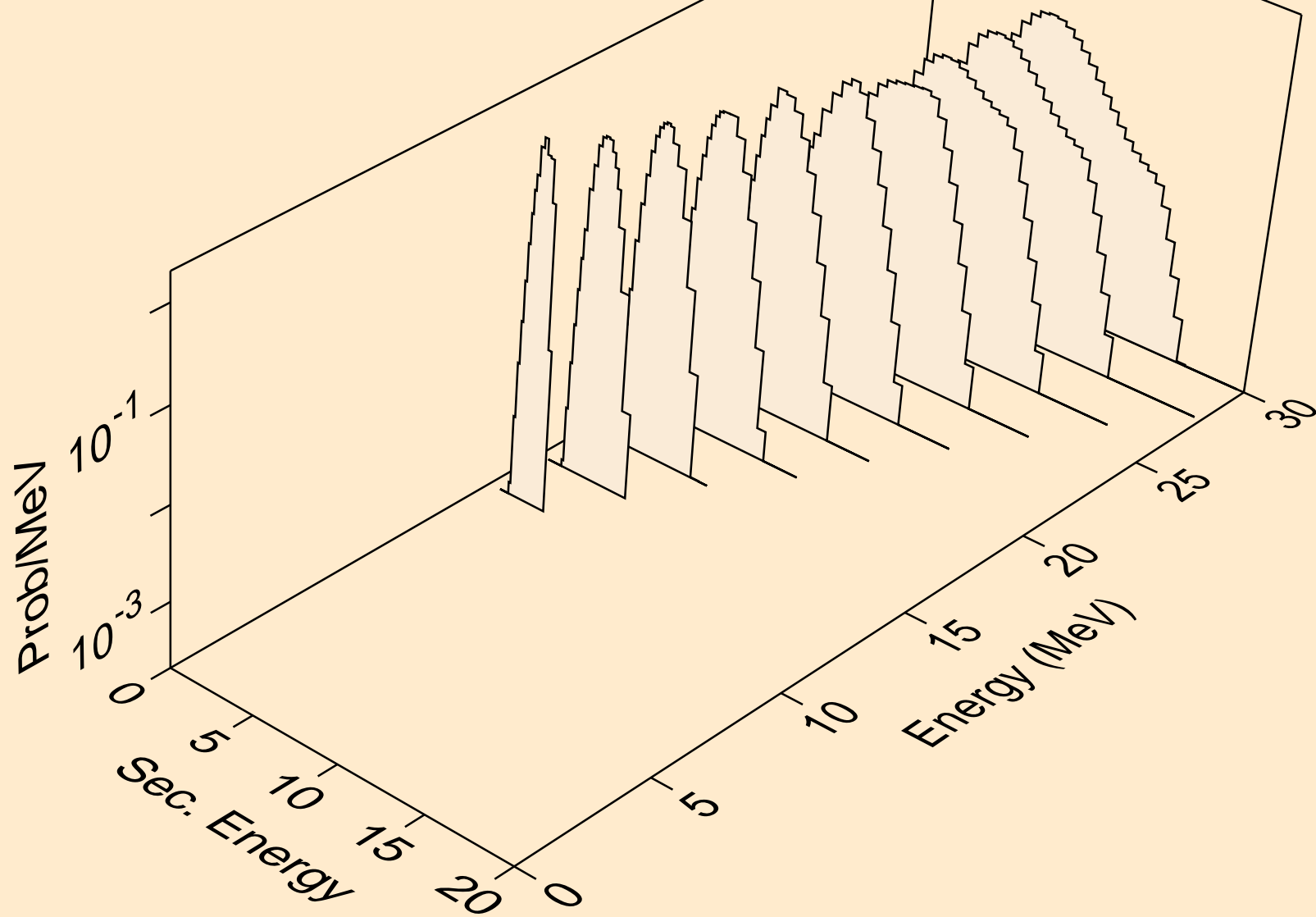
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Proton emission for (p,3np)



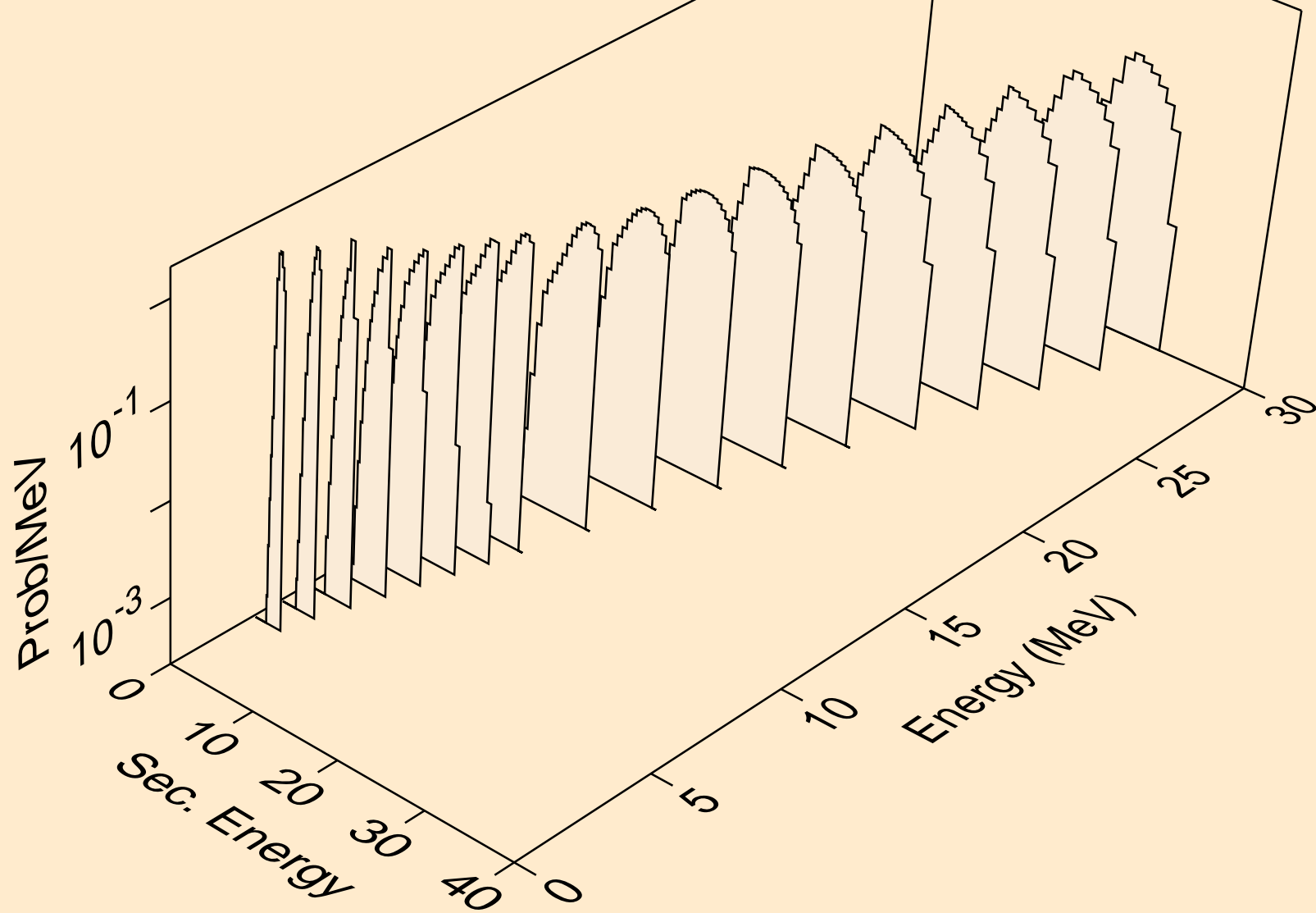
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

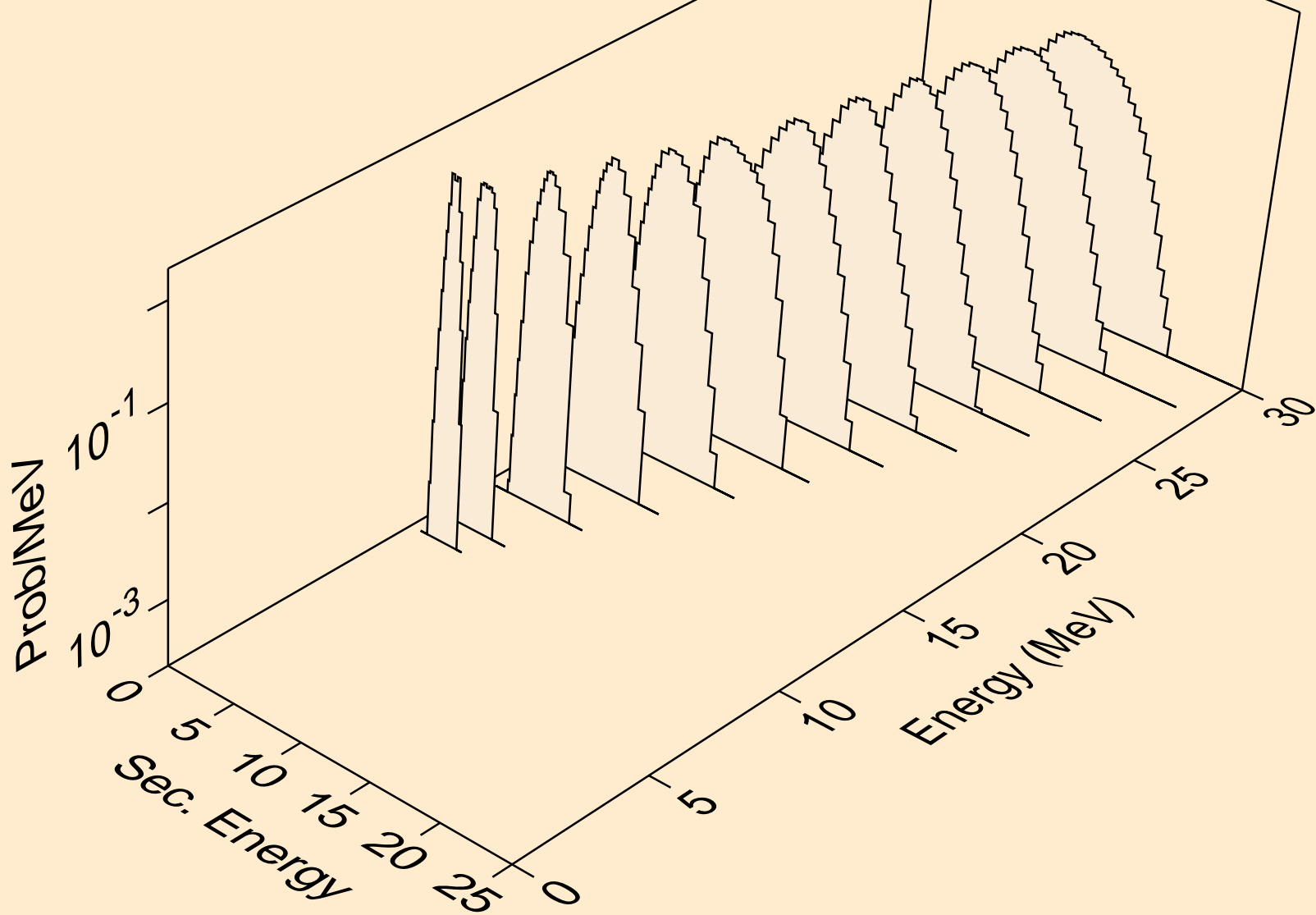


TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

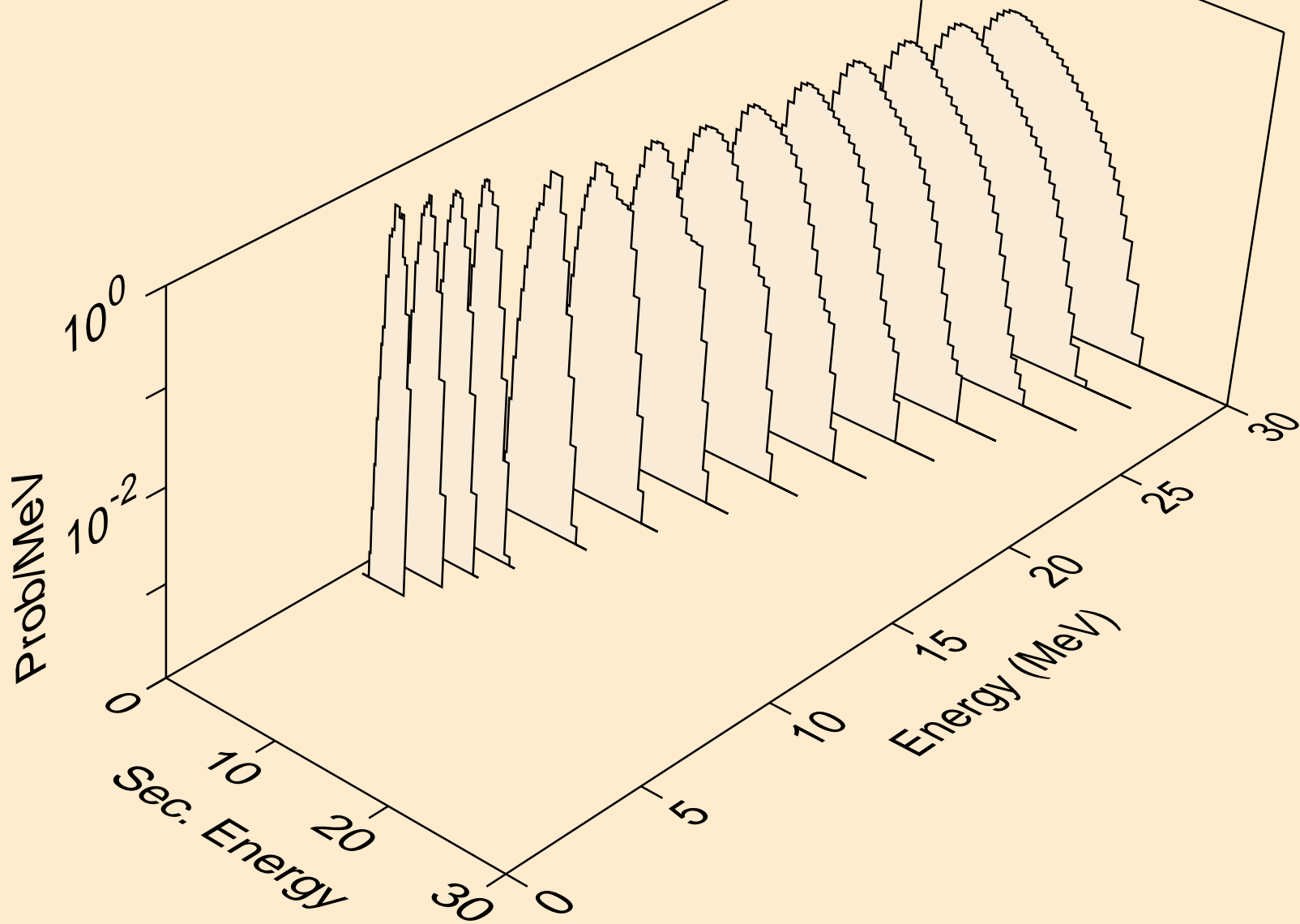




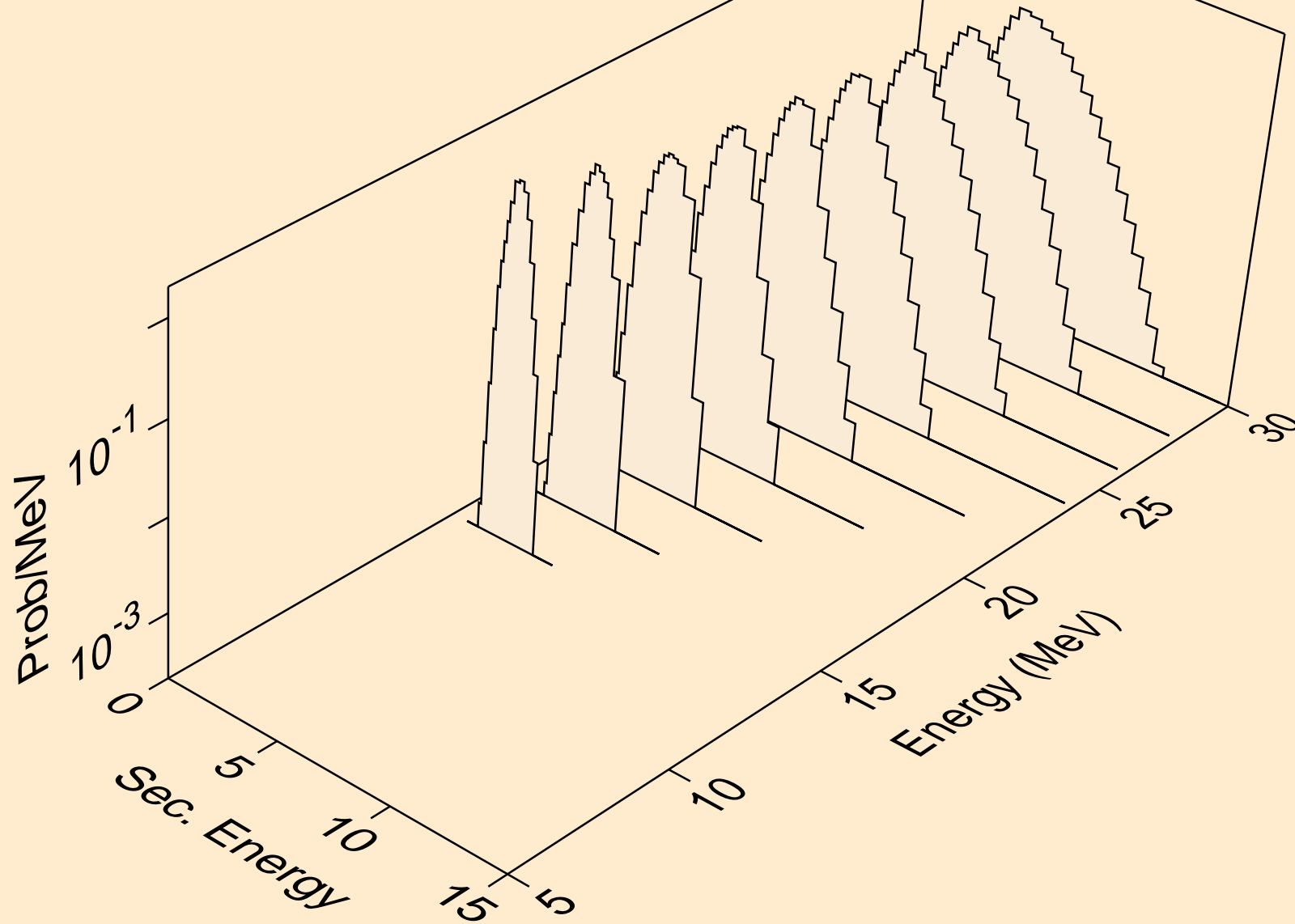
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Proton emission for (p,2p)



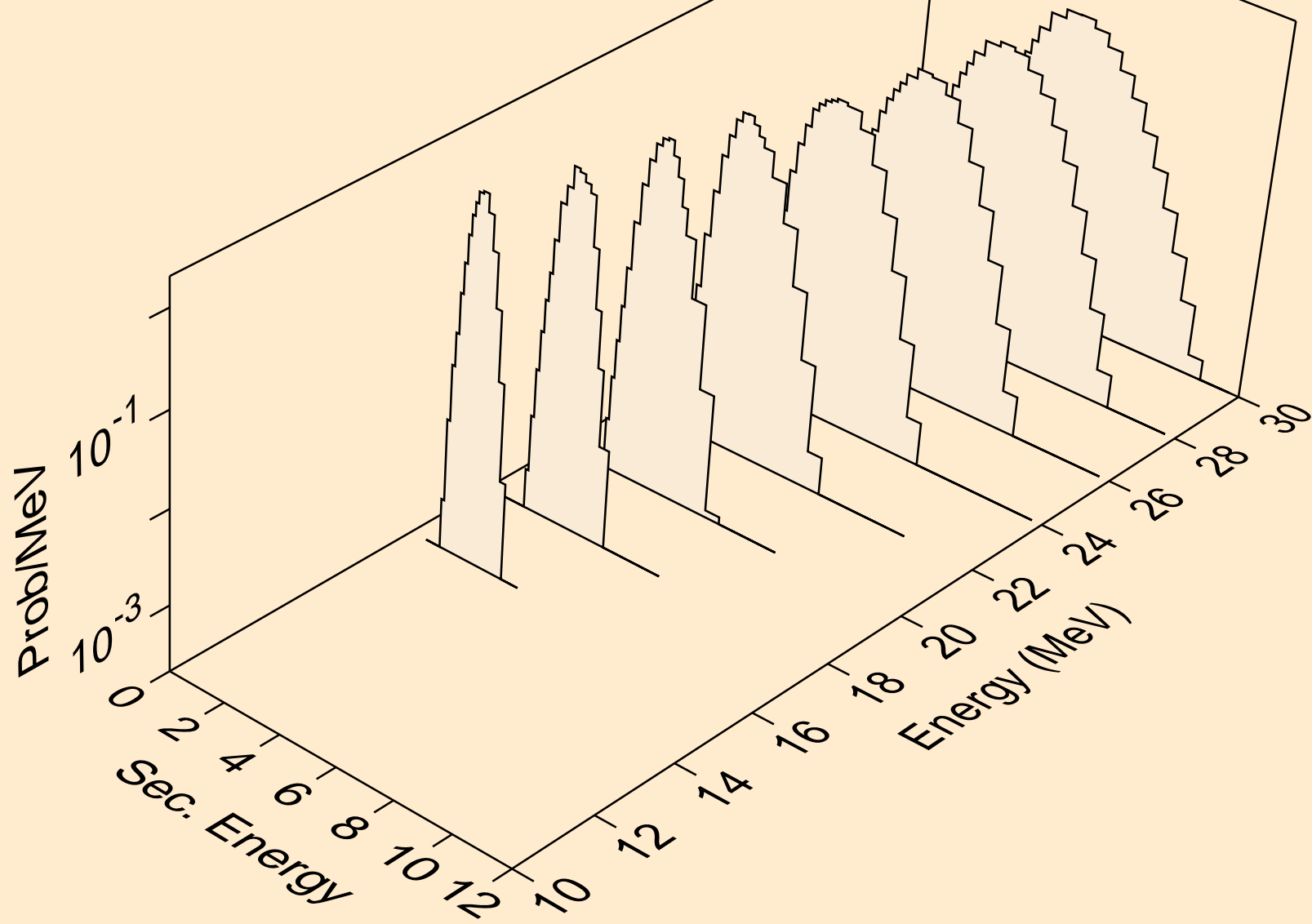
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Proton emission for (p,pa)



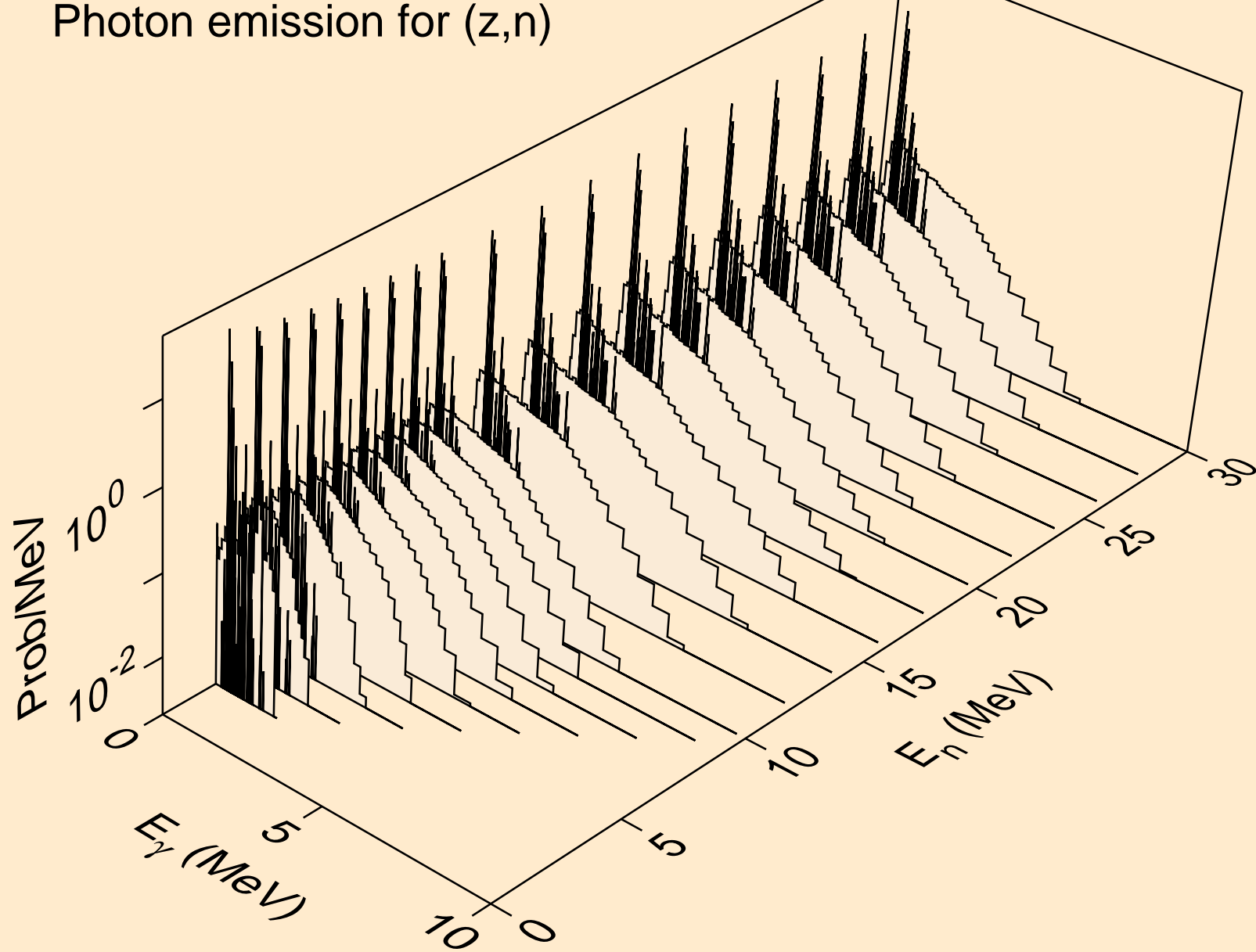
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



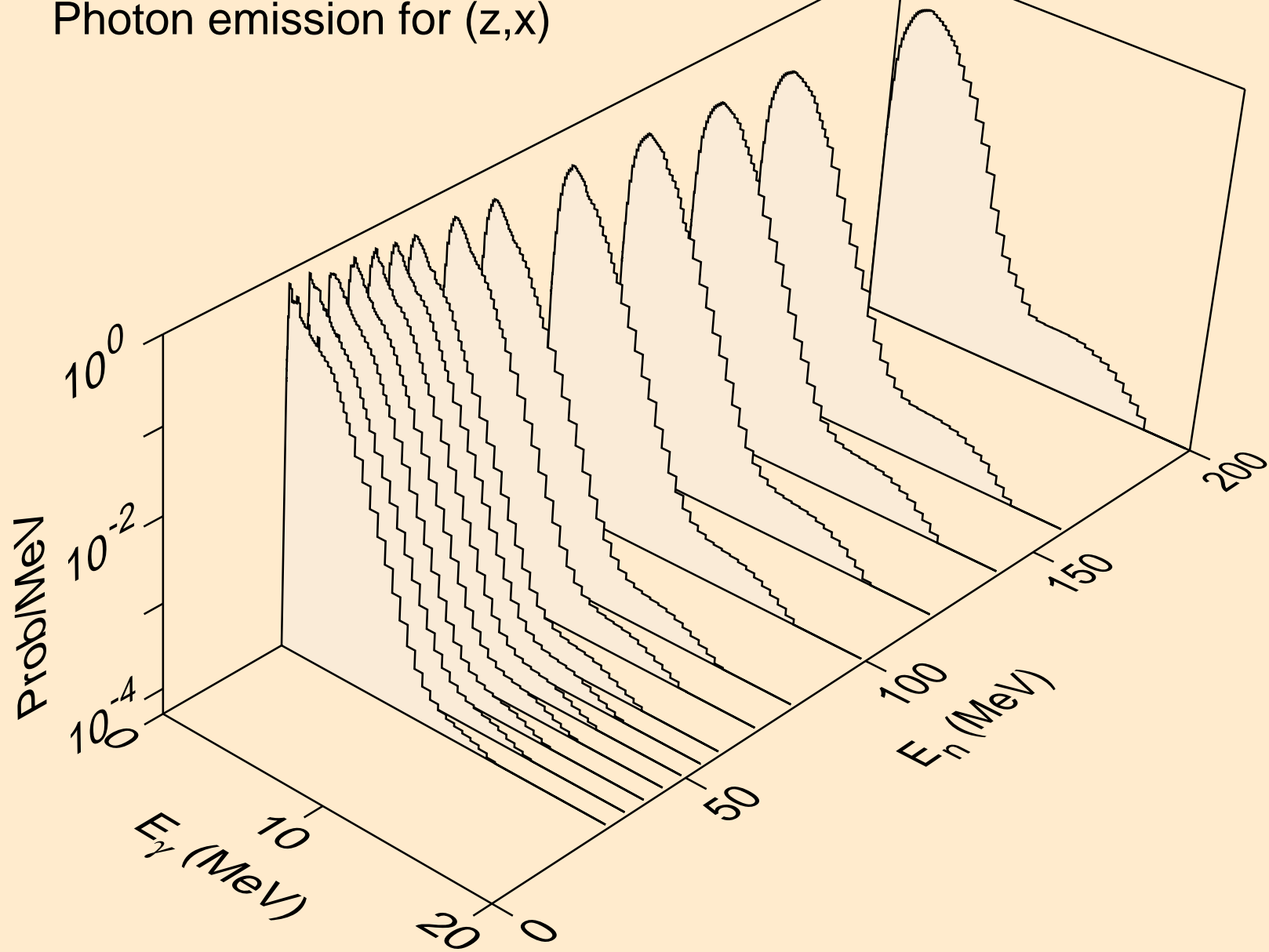
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Proton emission for (p,pt)



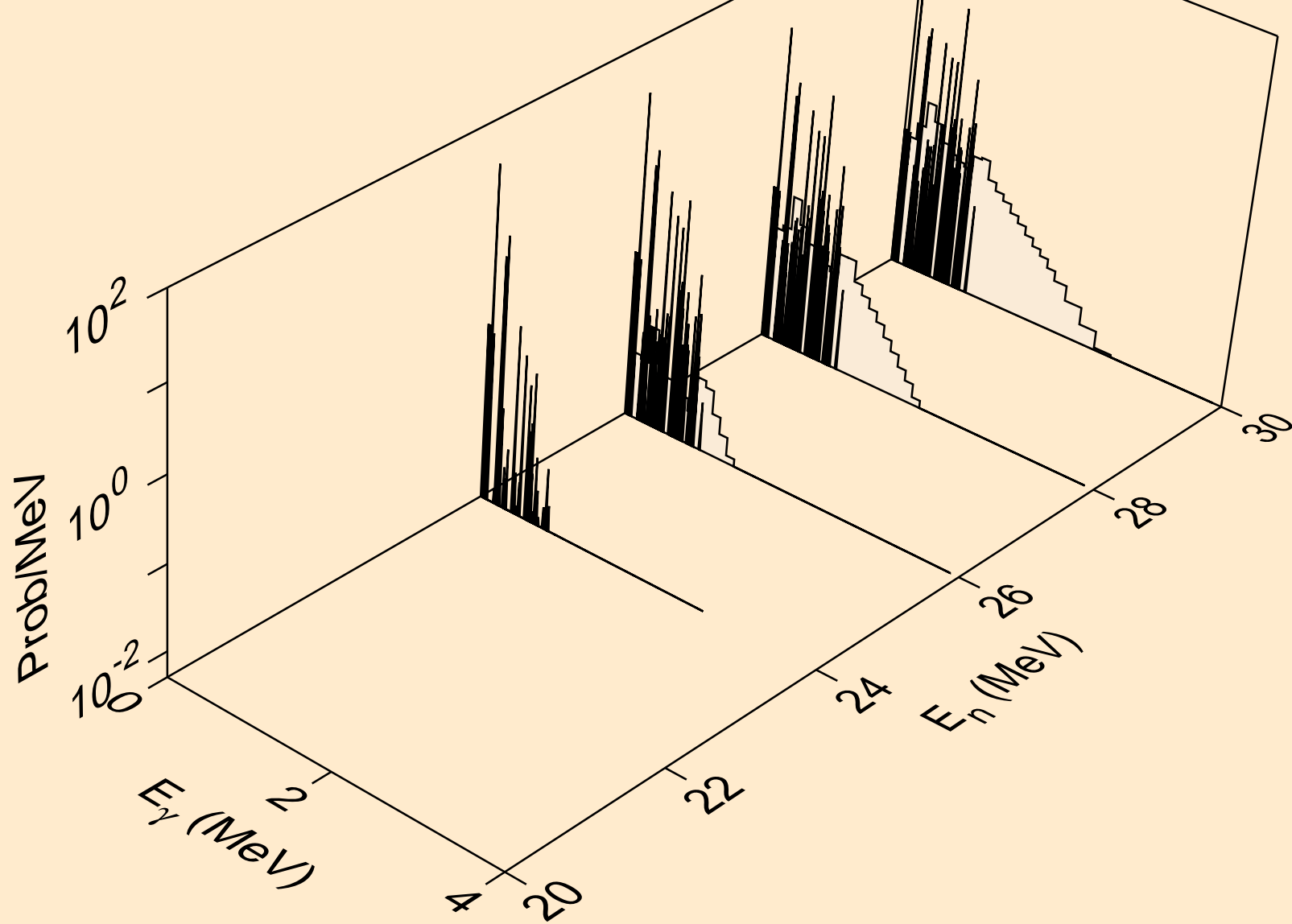
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Photon emission for (z,n)



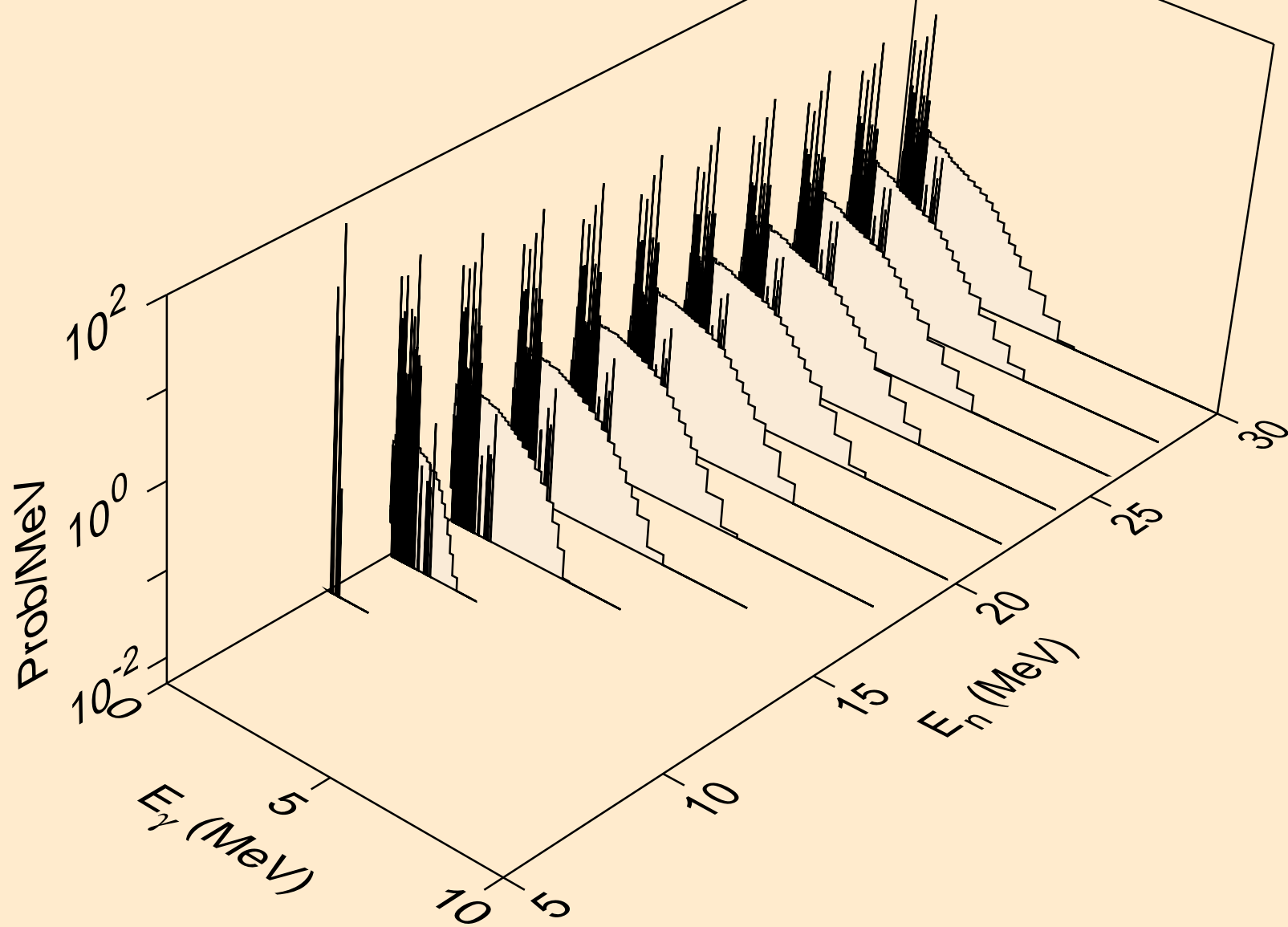
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Photon emission for (z,x)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

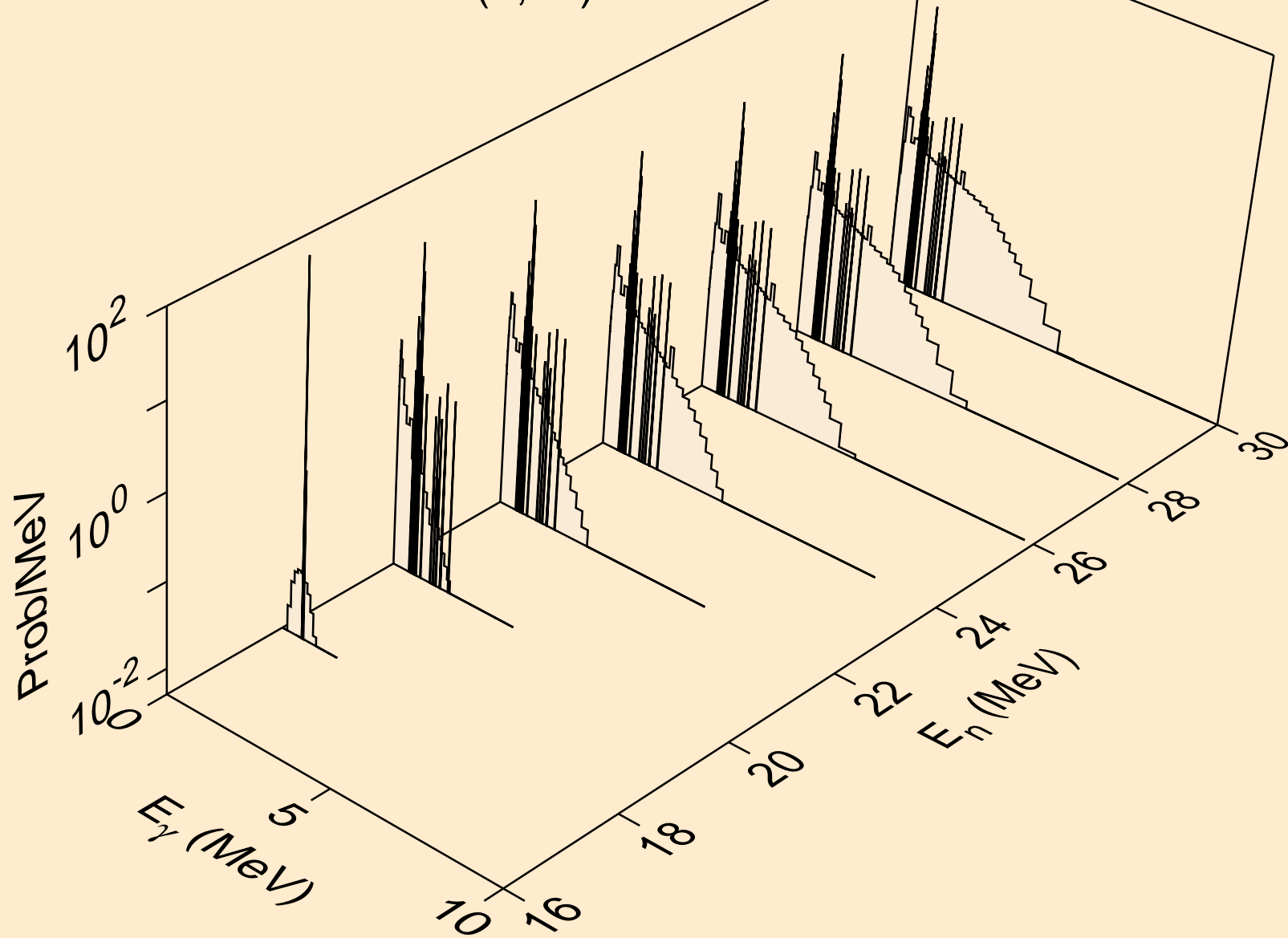


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Photon emission for (n,2n)

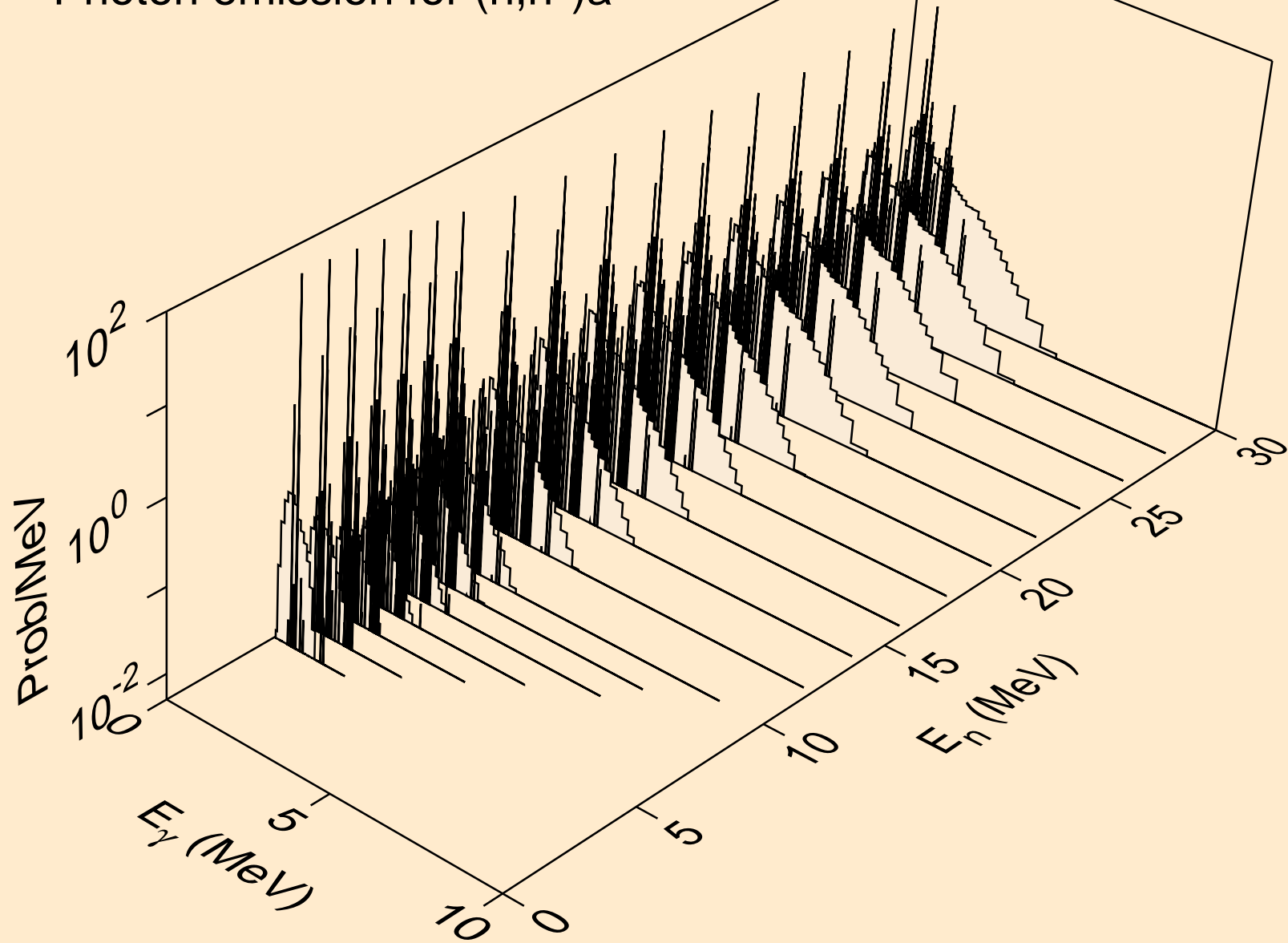




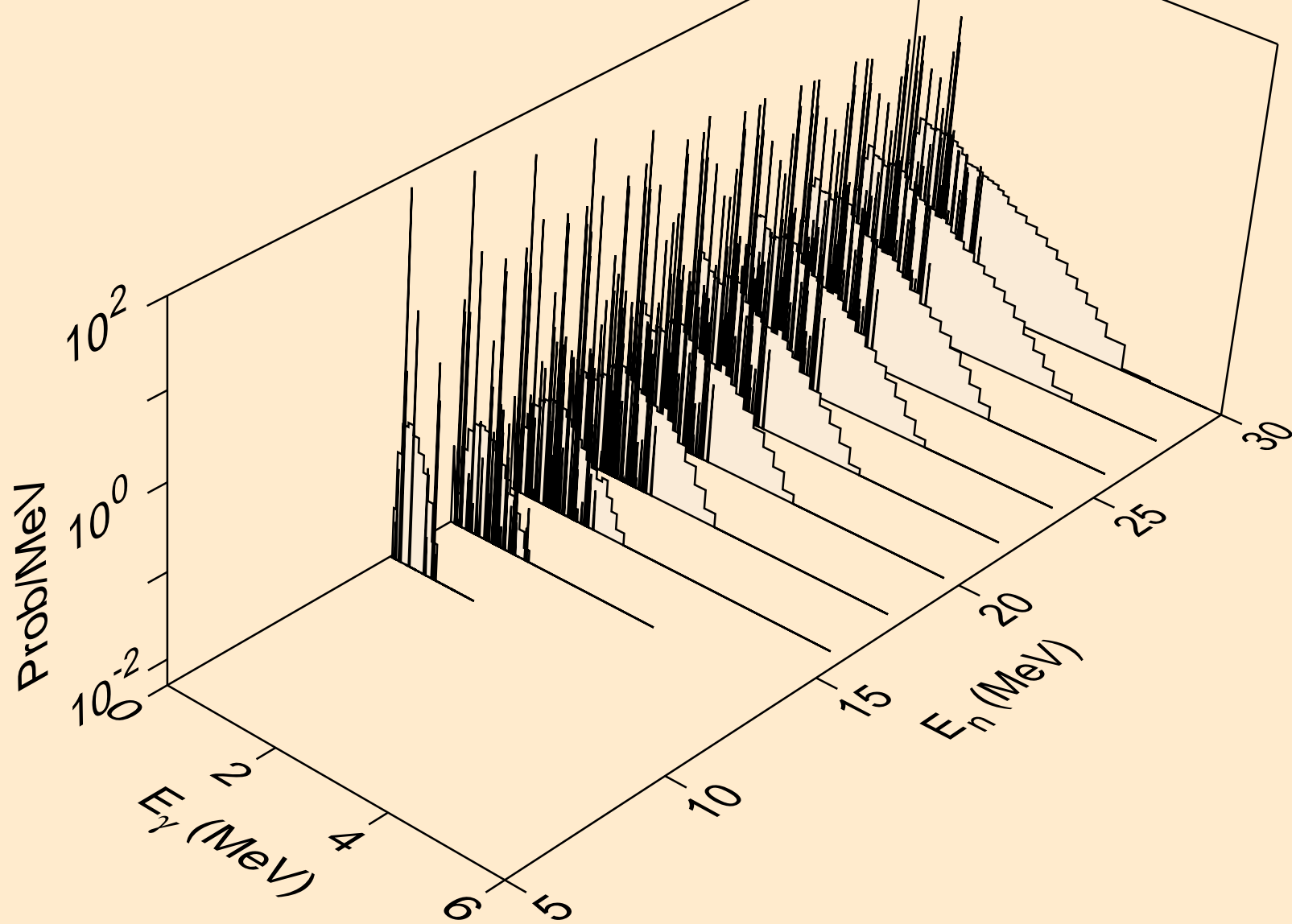
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Photon emission for (n,3n)



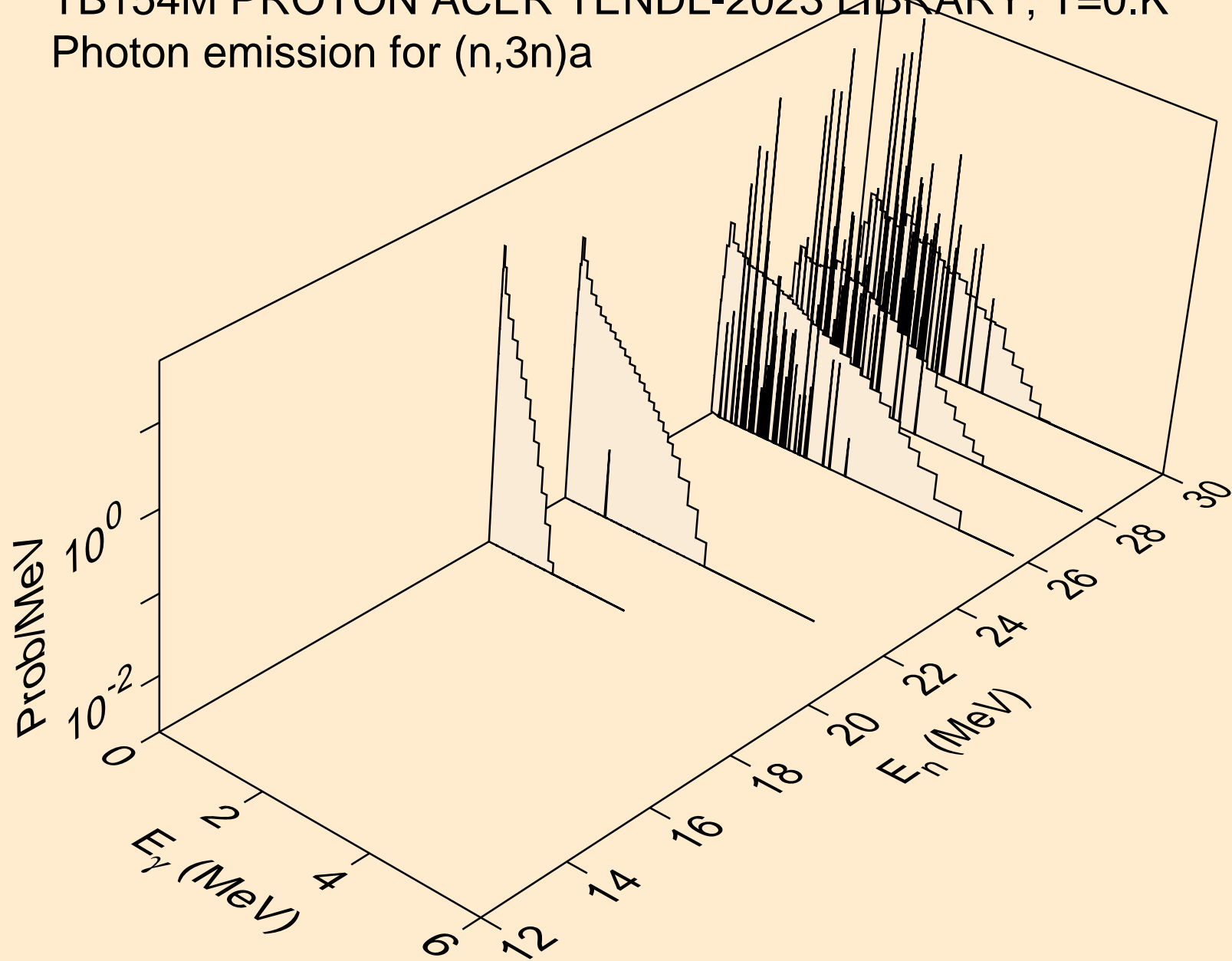
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Photon emission for (n,n\*)a



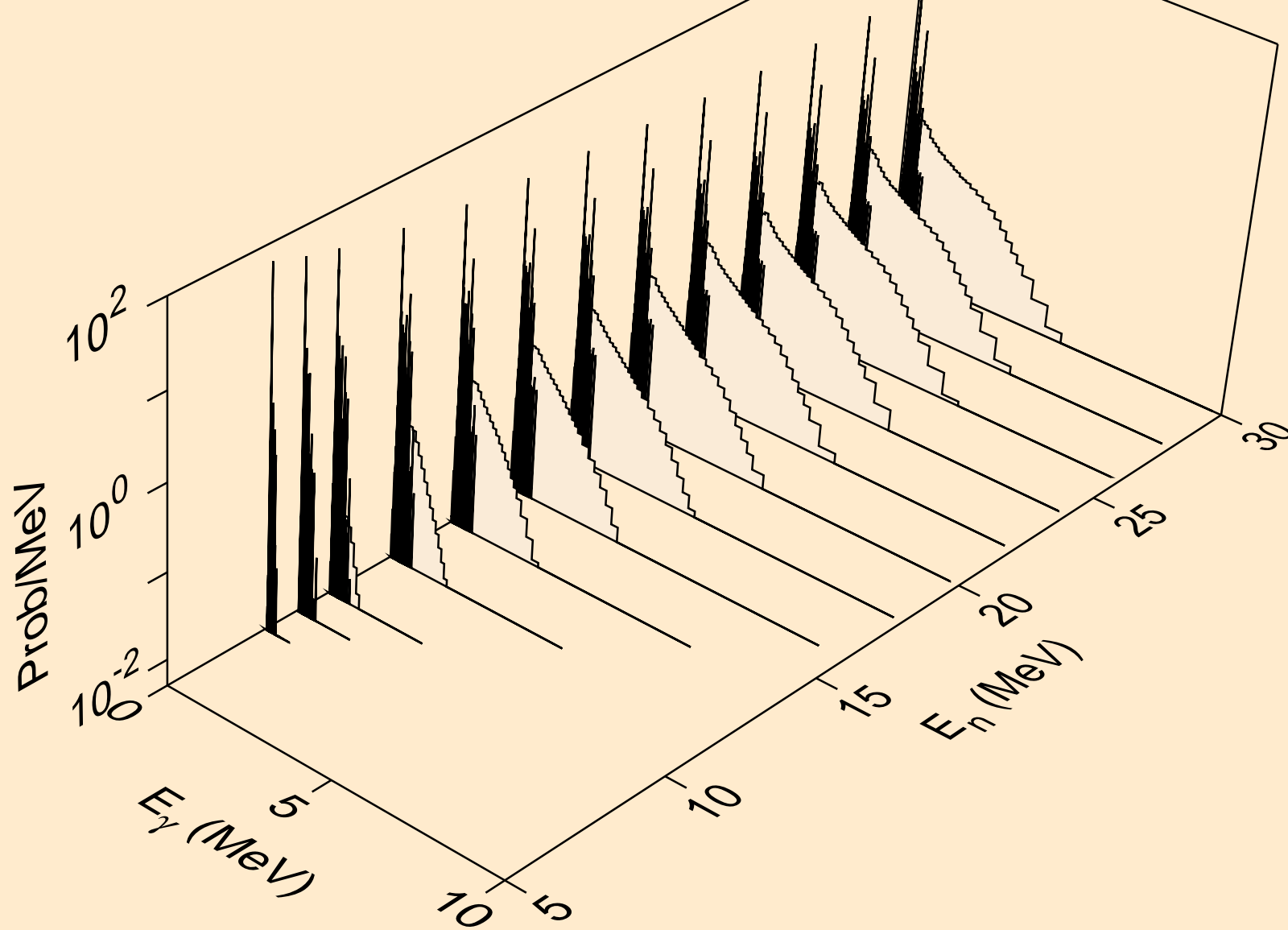
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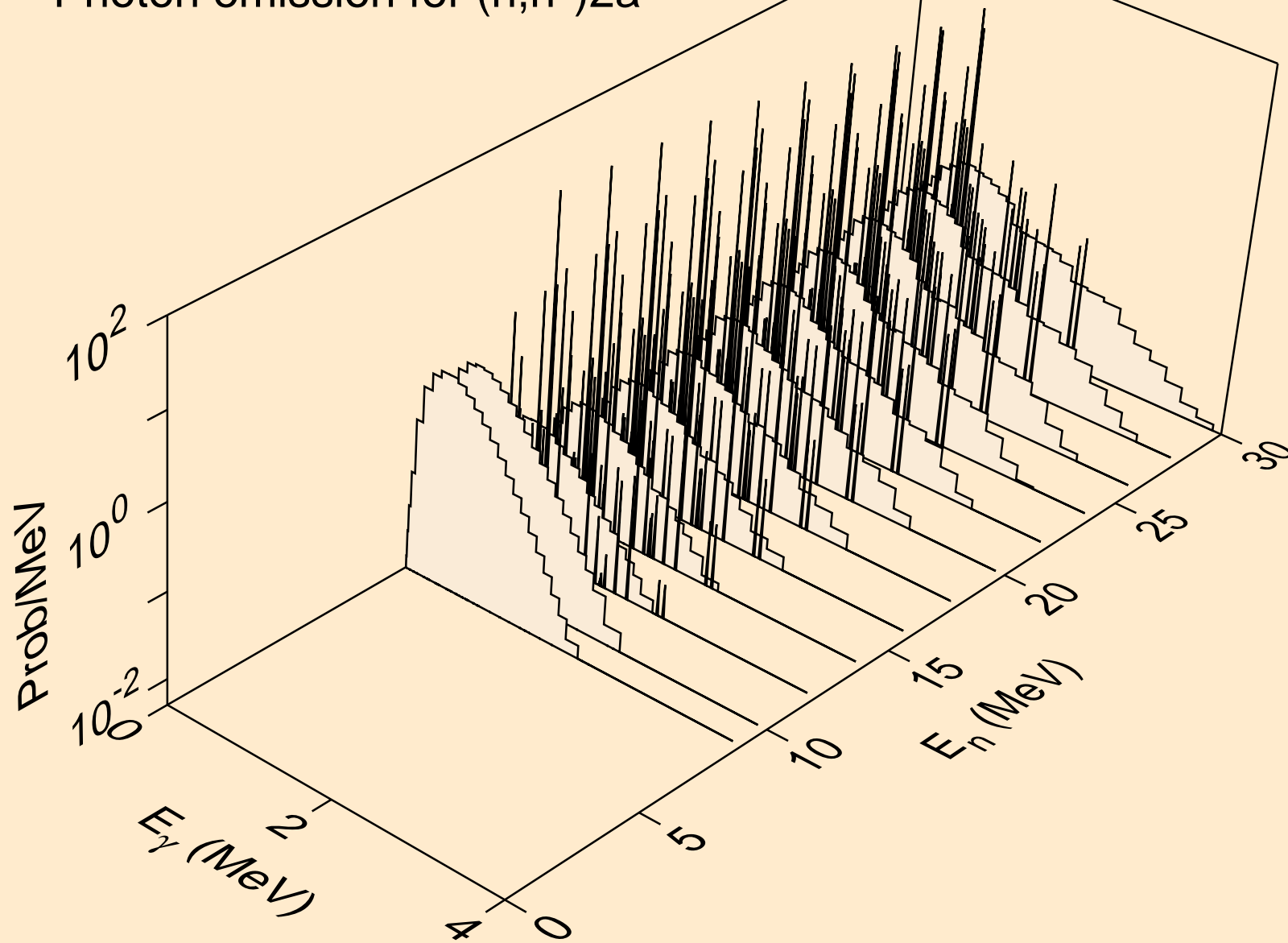
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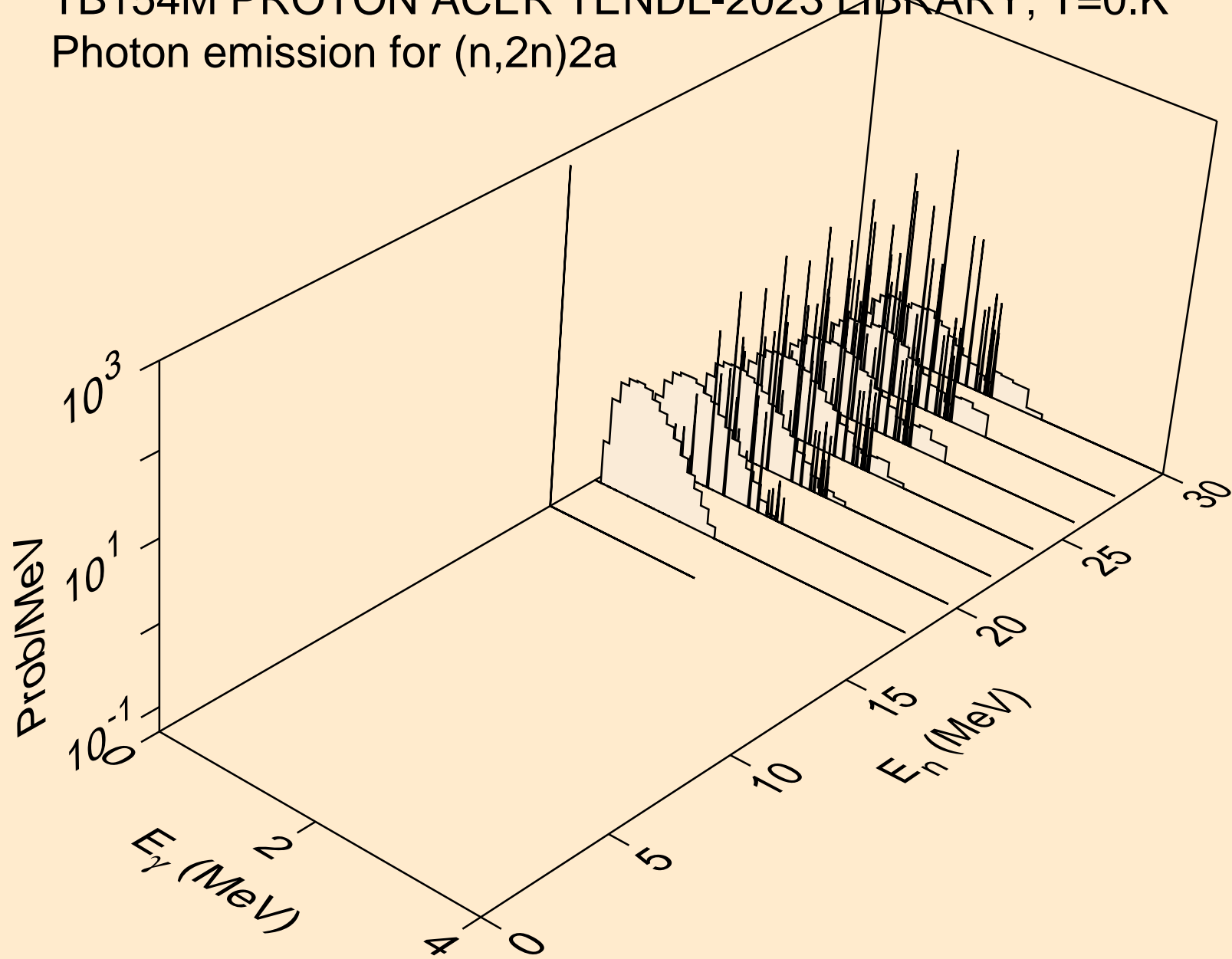
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Photon emission for (n,n\*)p



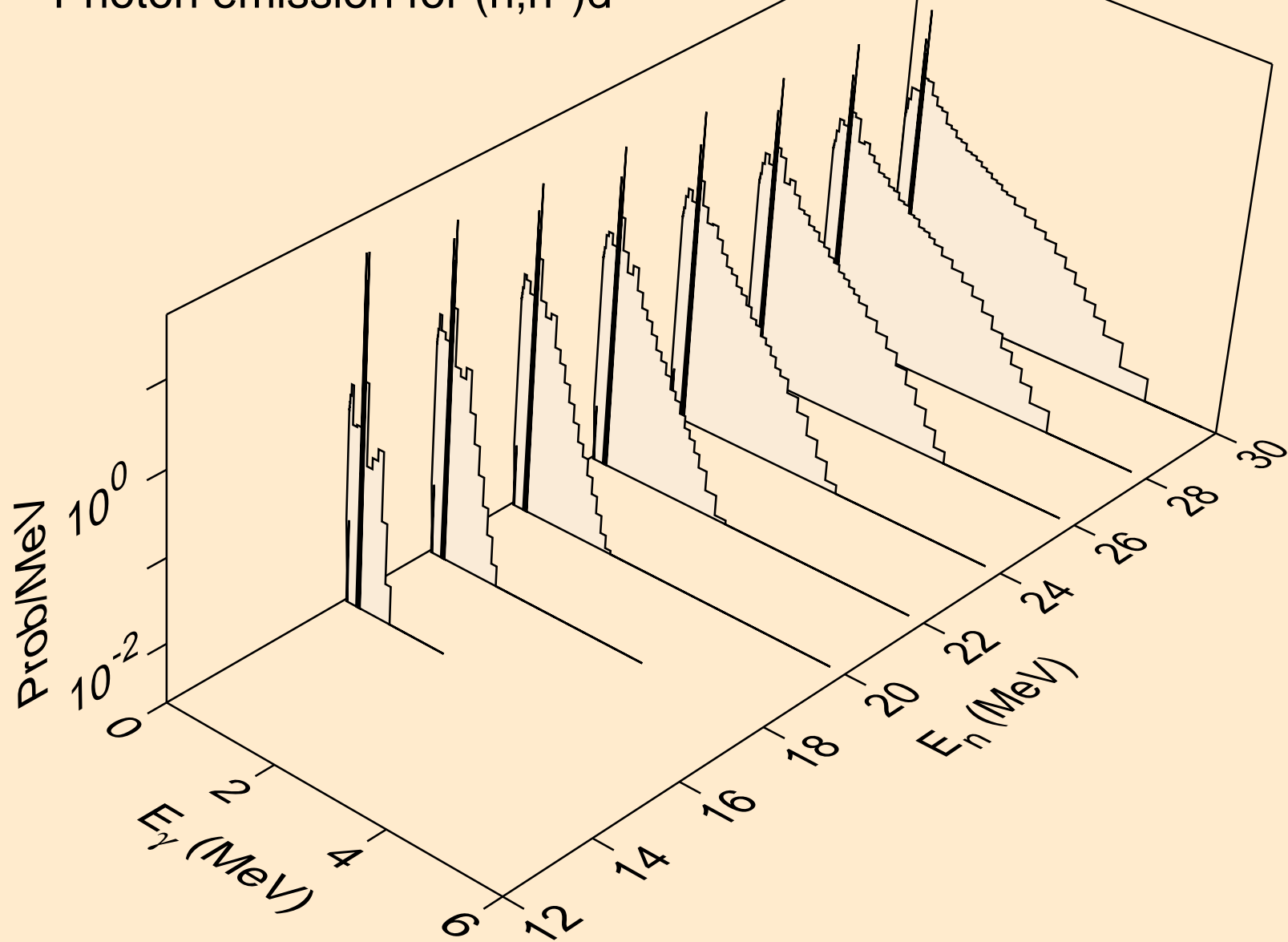
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Photon emission for (n,n\*)2a



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Photon emission for (n,2n)2a

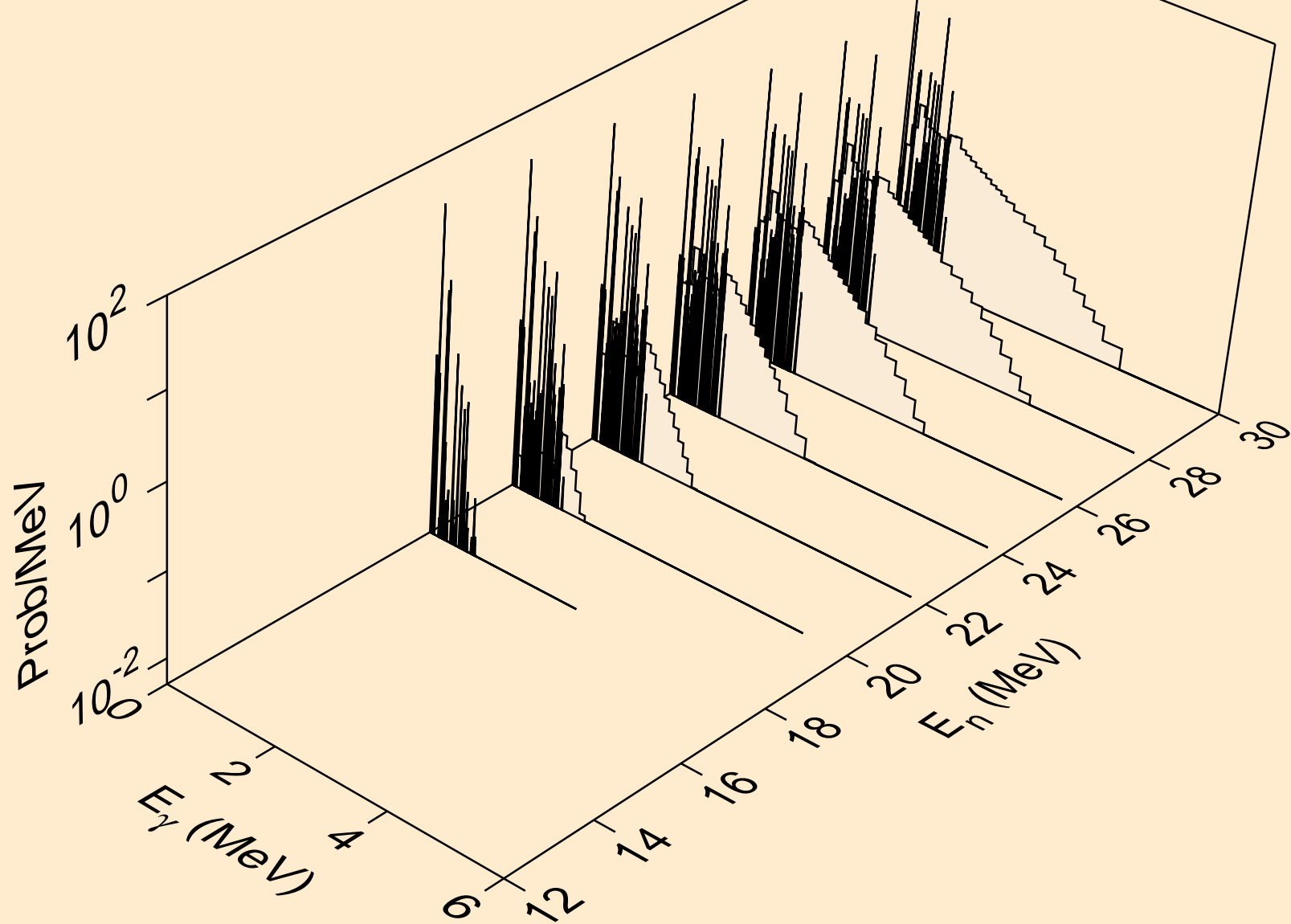


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Photon emission for (n,n\*)d

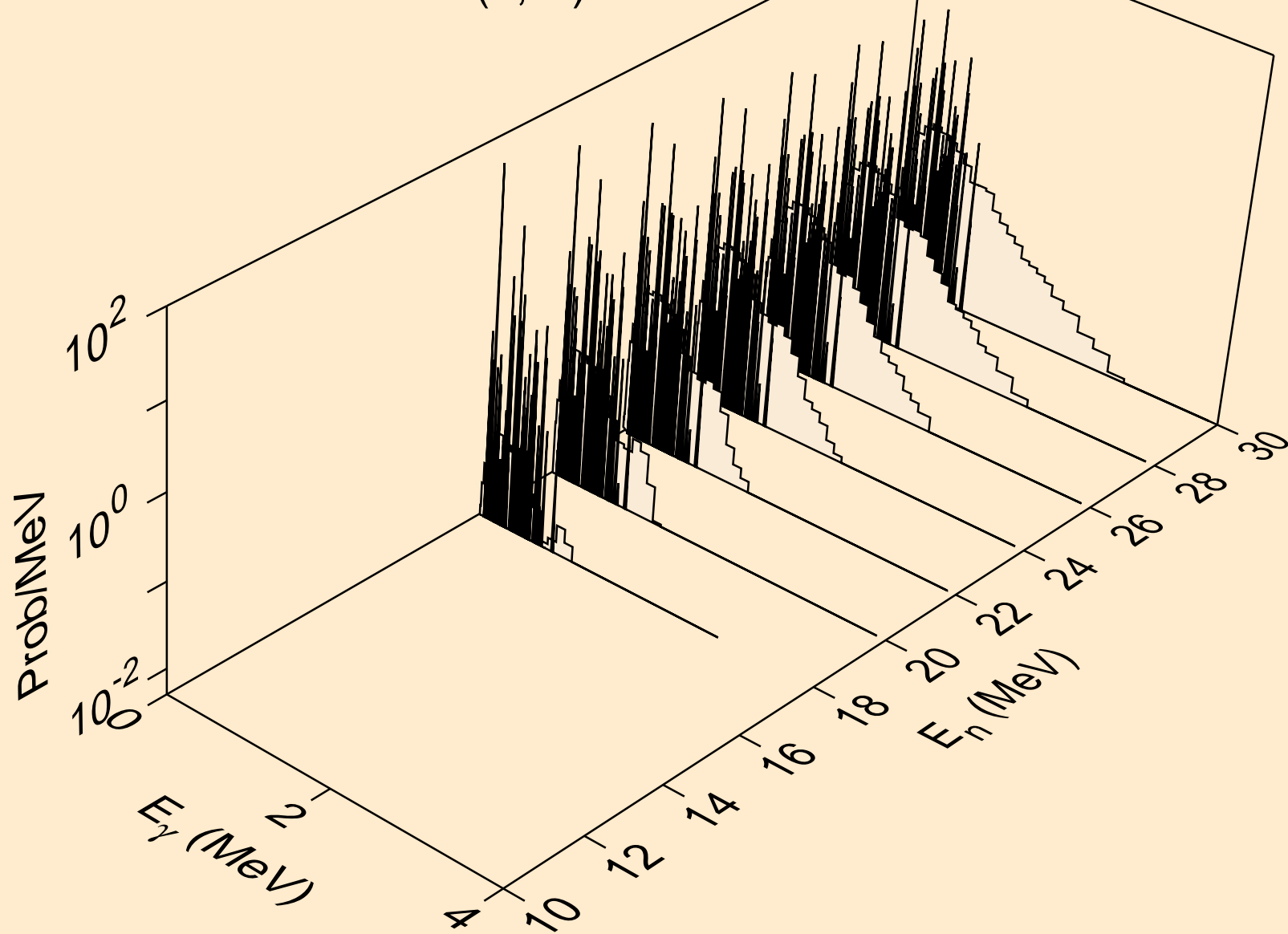




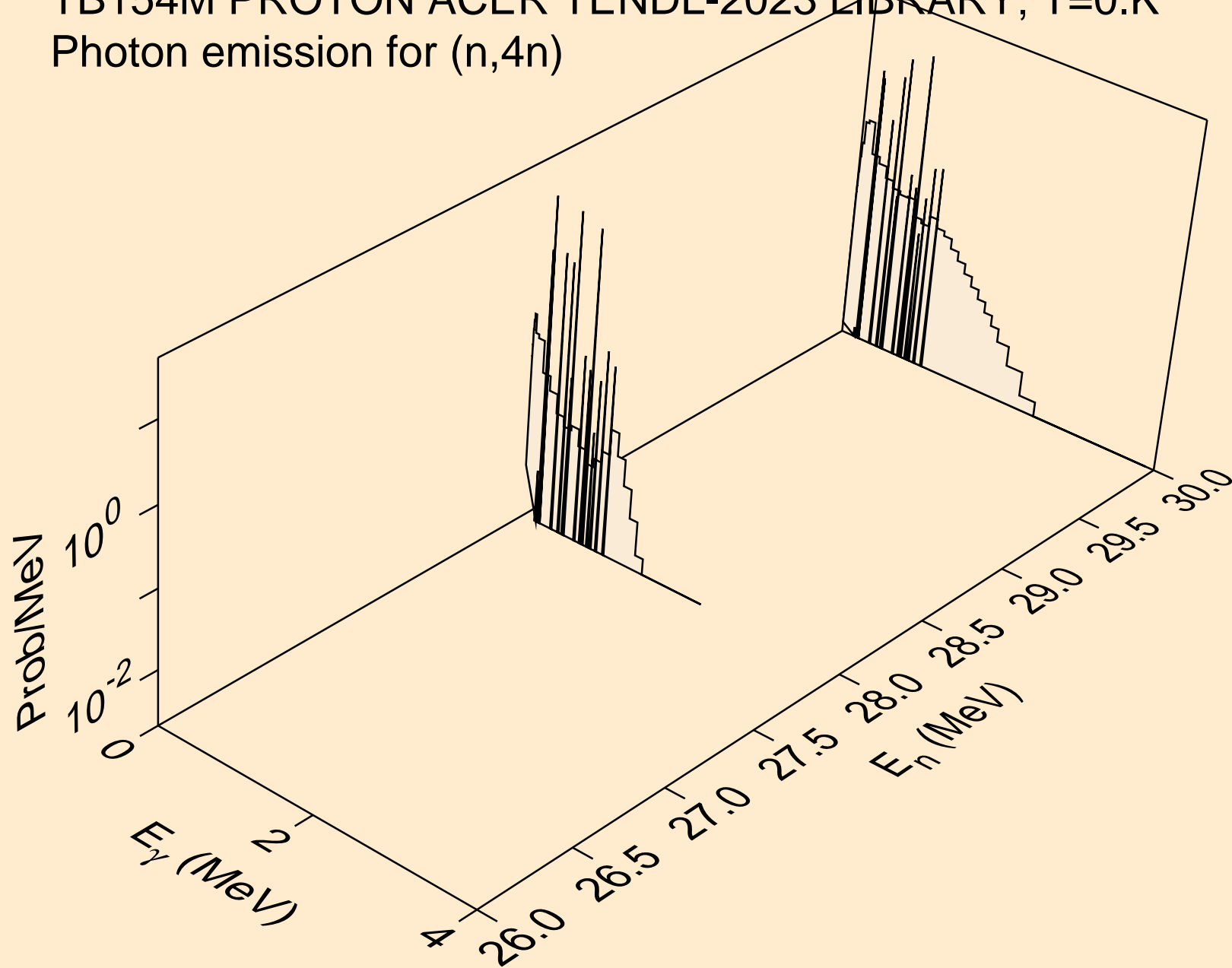
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Photon emission for (n,n\*)t



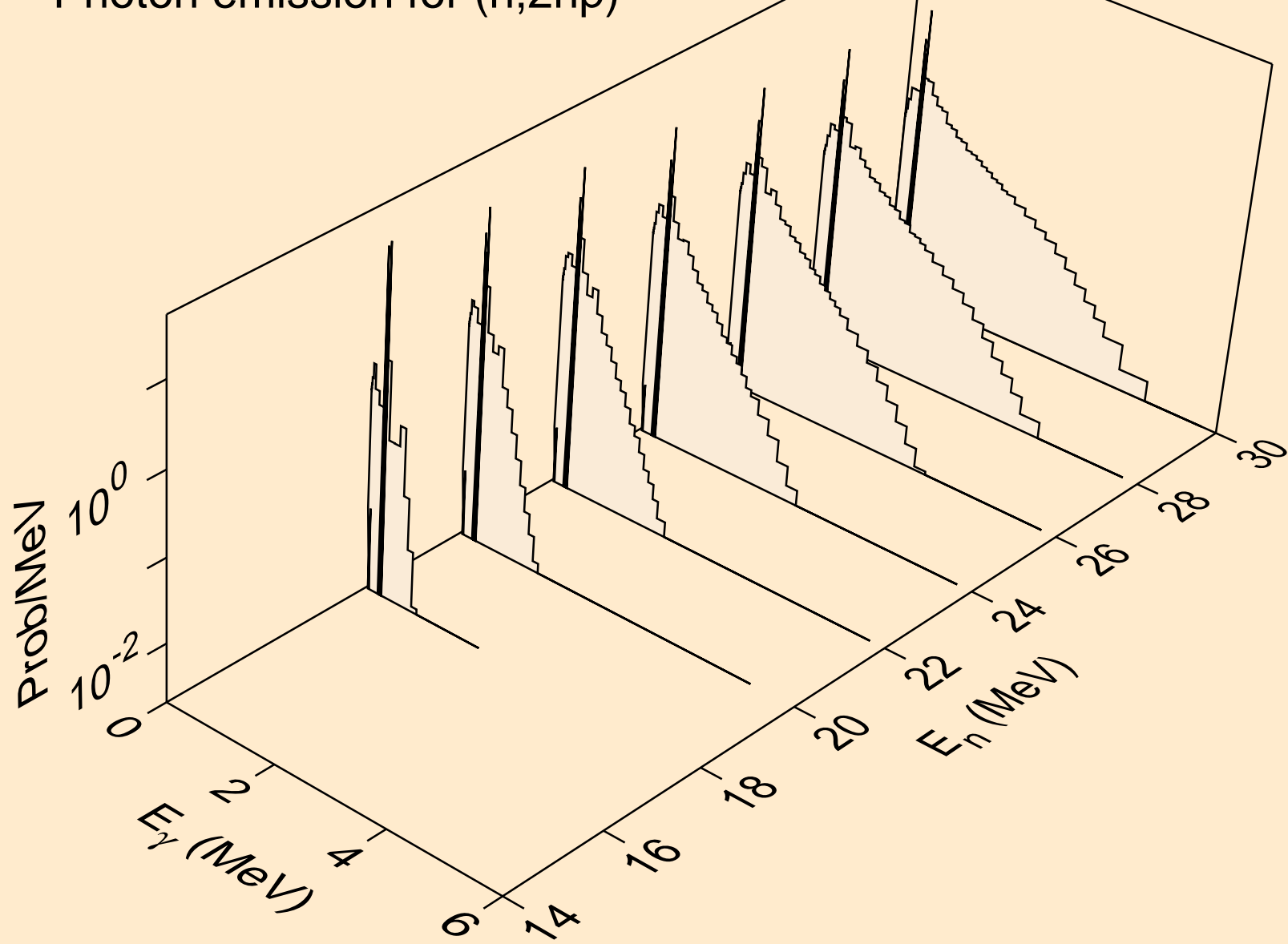
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Photon emission for (n,n\*)he3



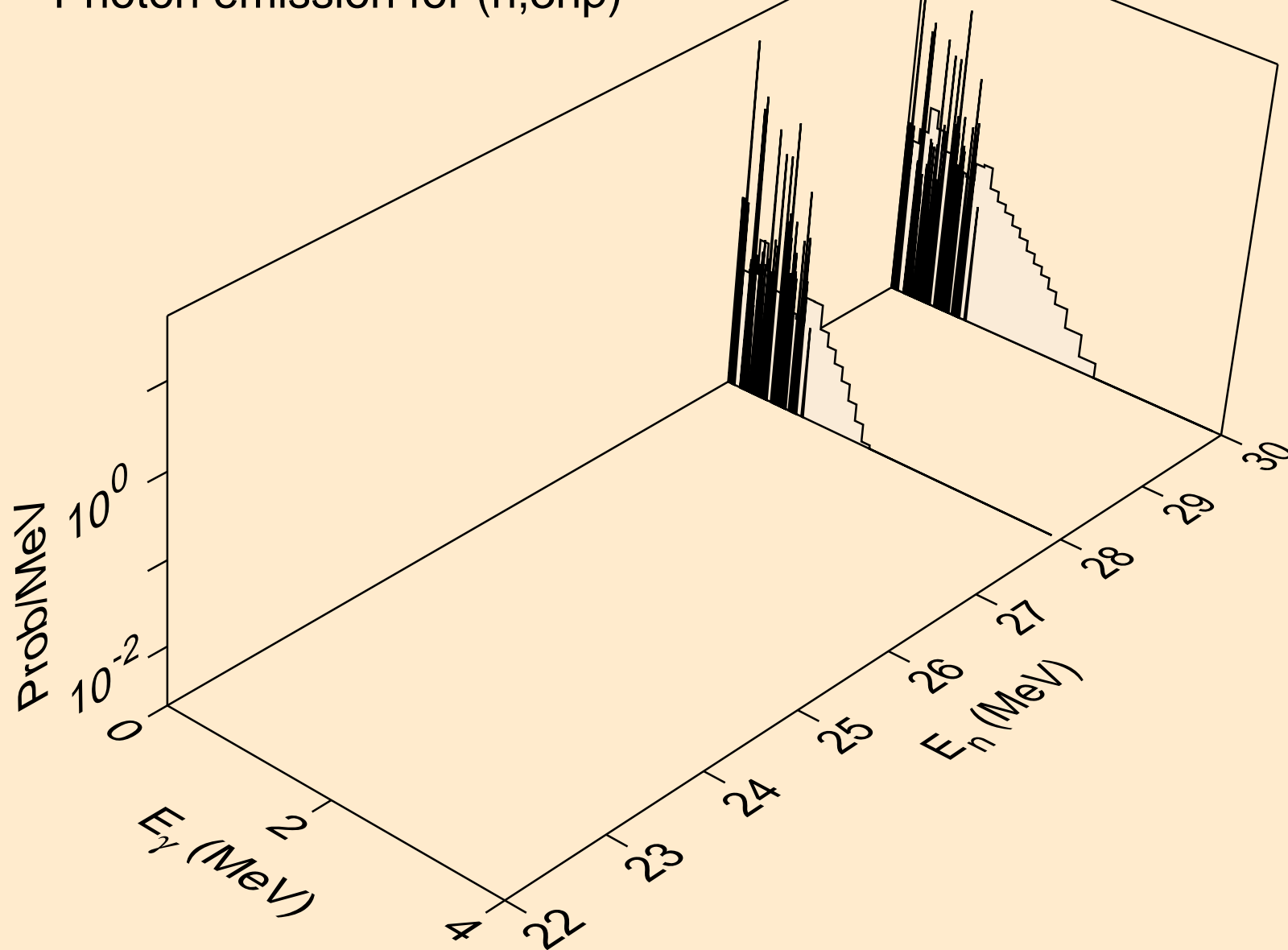
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Photon emission for (n,4n)



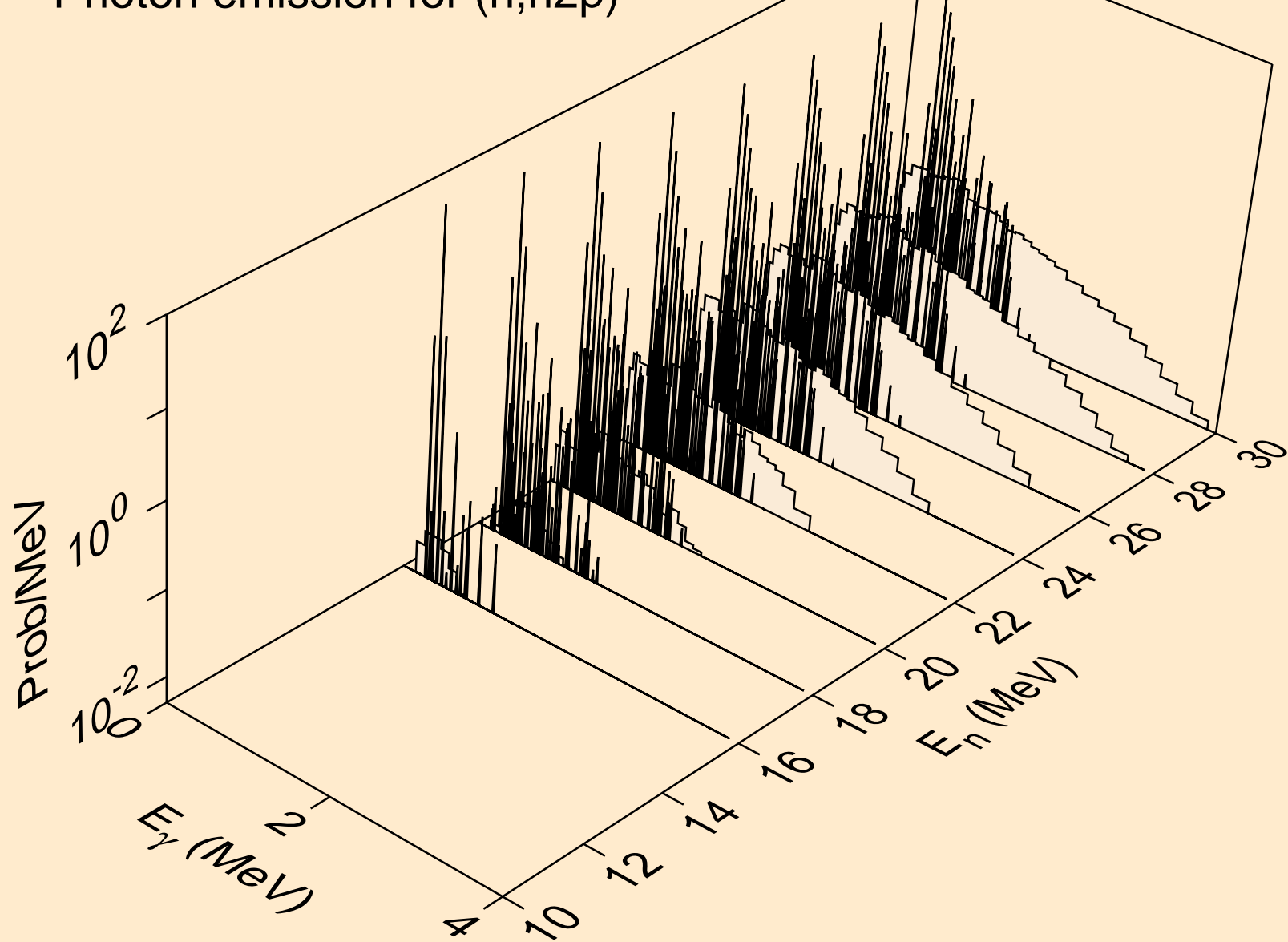
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Photon emission for (n,2np)



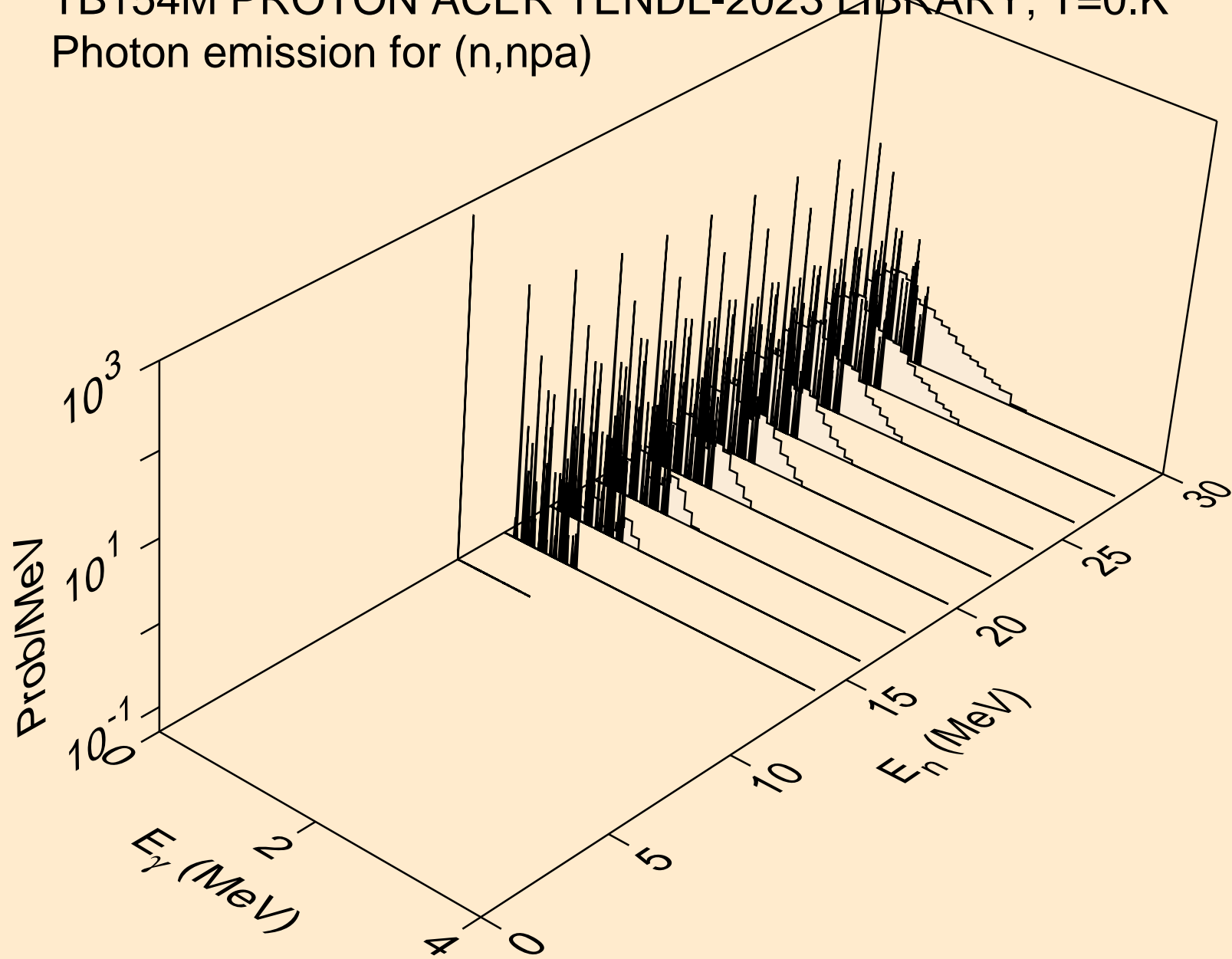
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Photon emission for (n,3np)



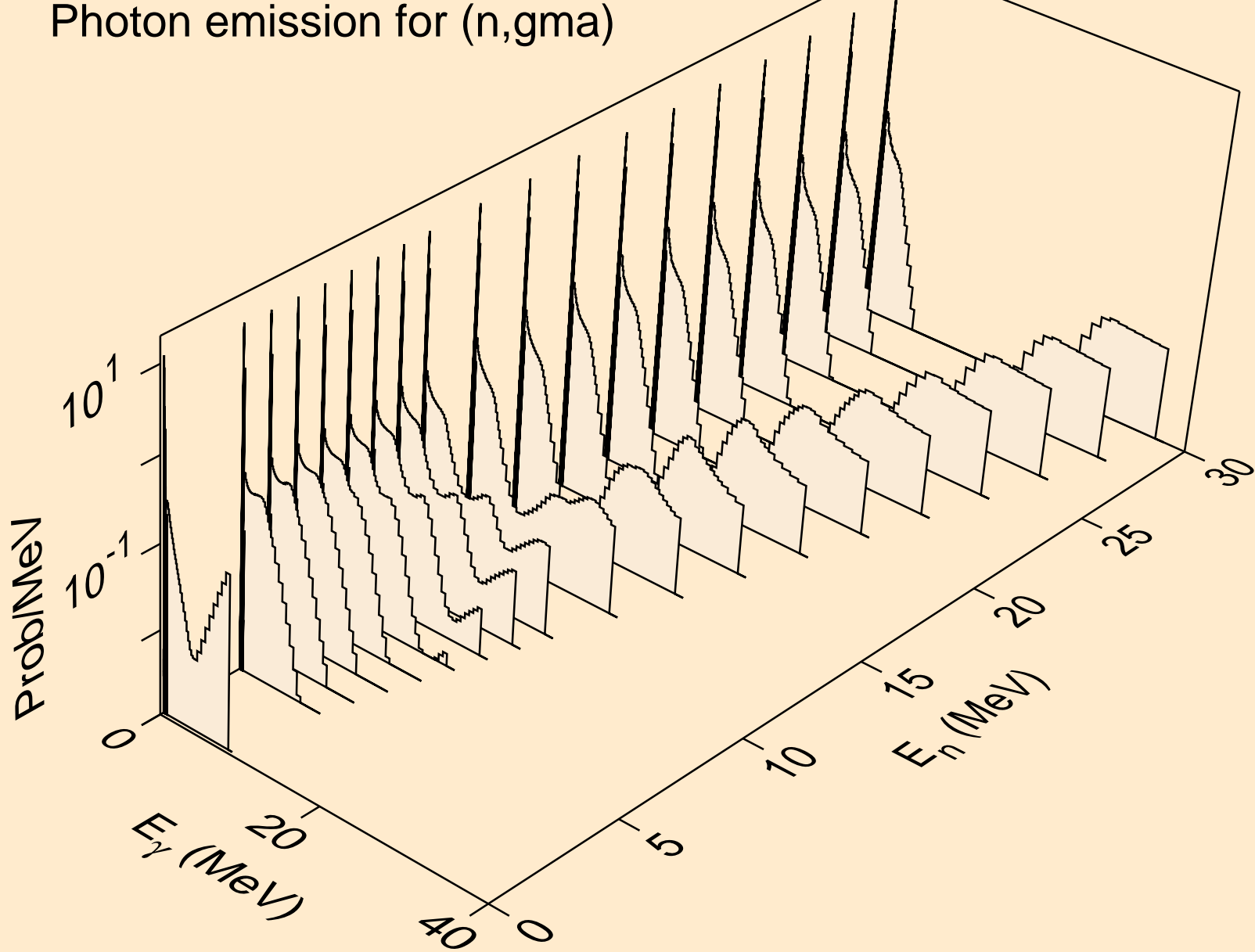
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Photon emission for (n,n2p)



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Photon emission for (n,npa)

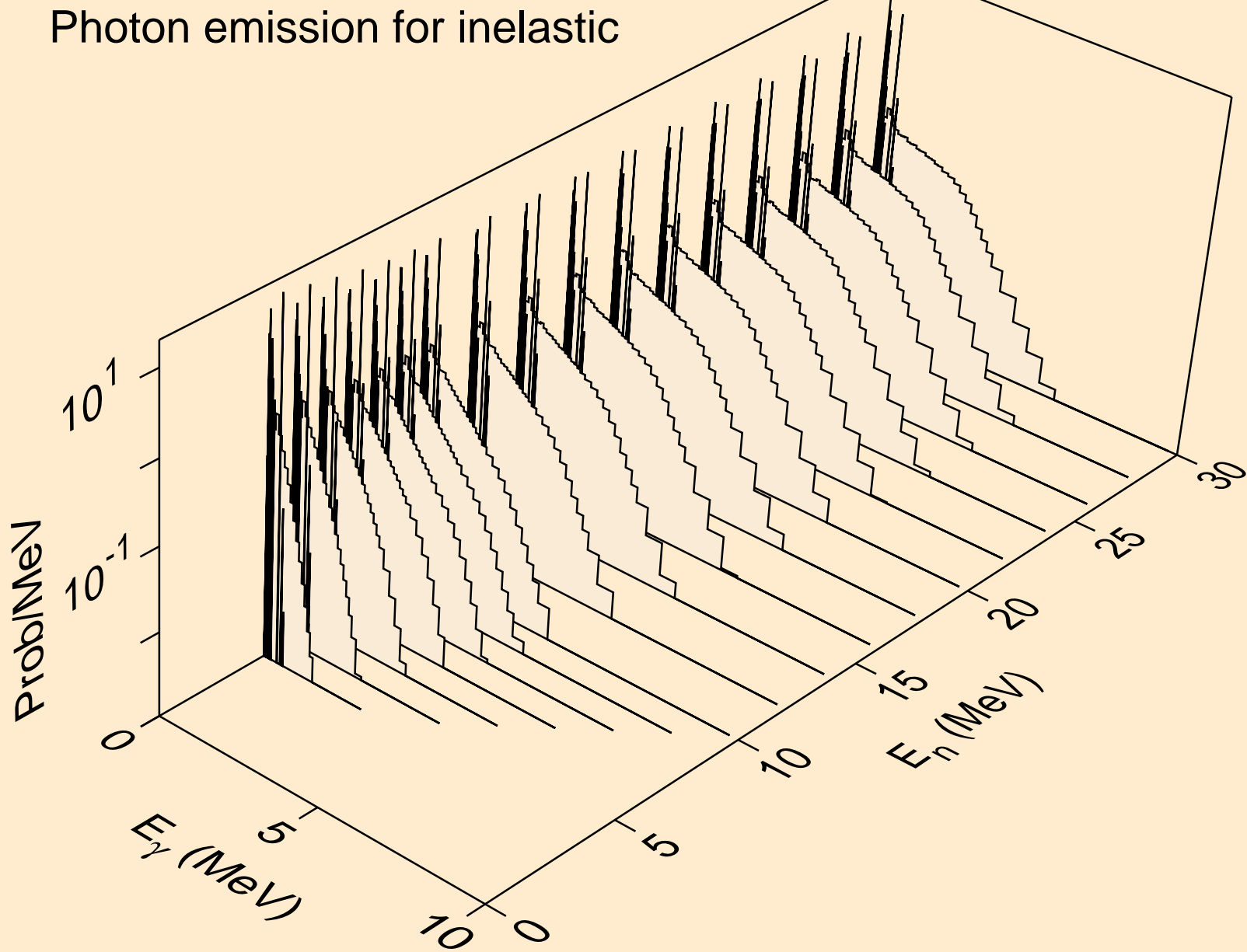


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Photon emission for (n,gma)

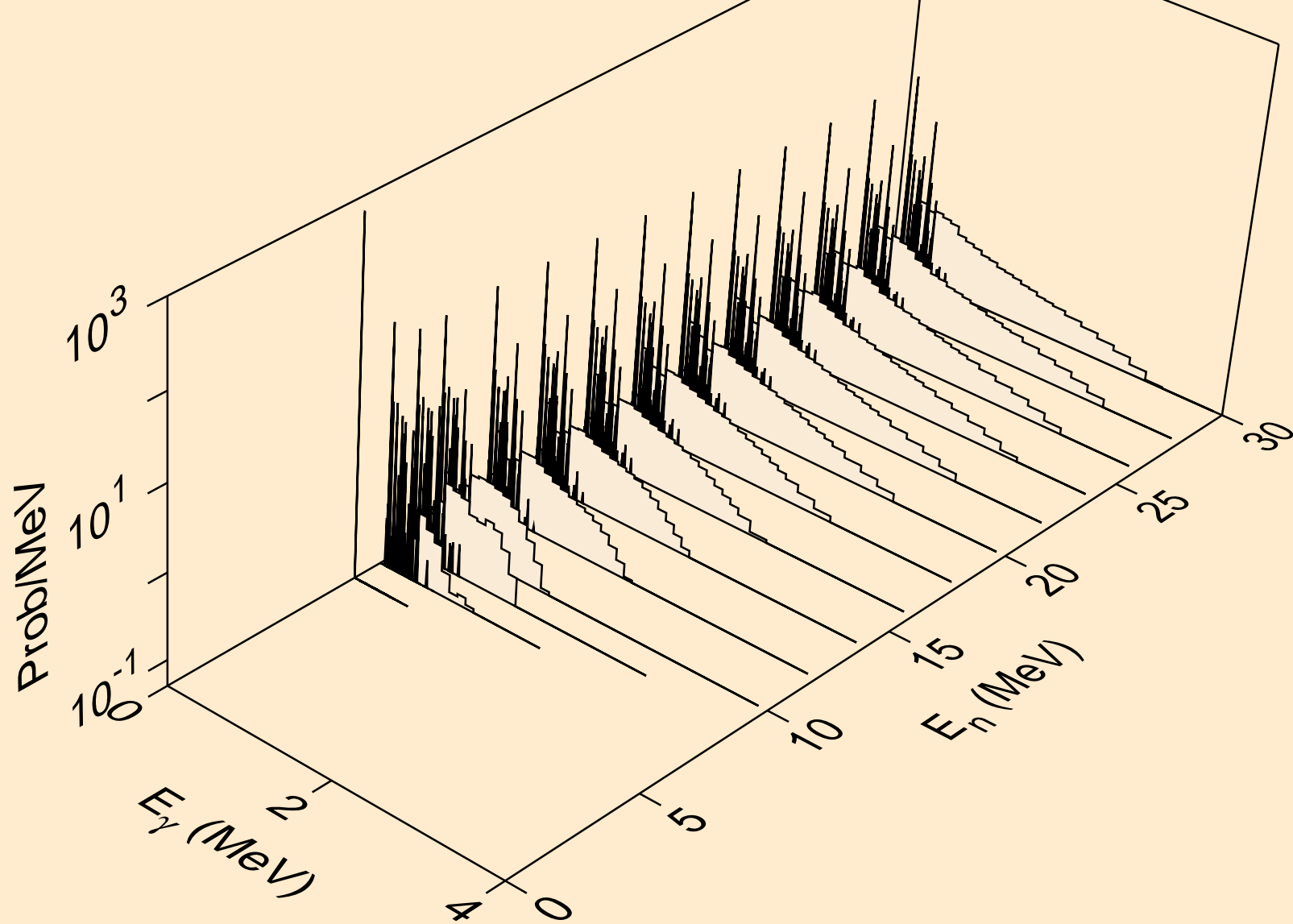




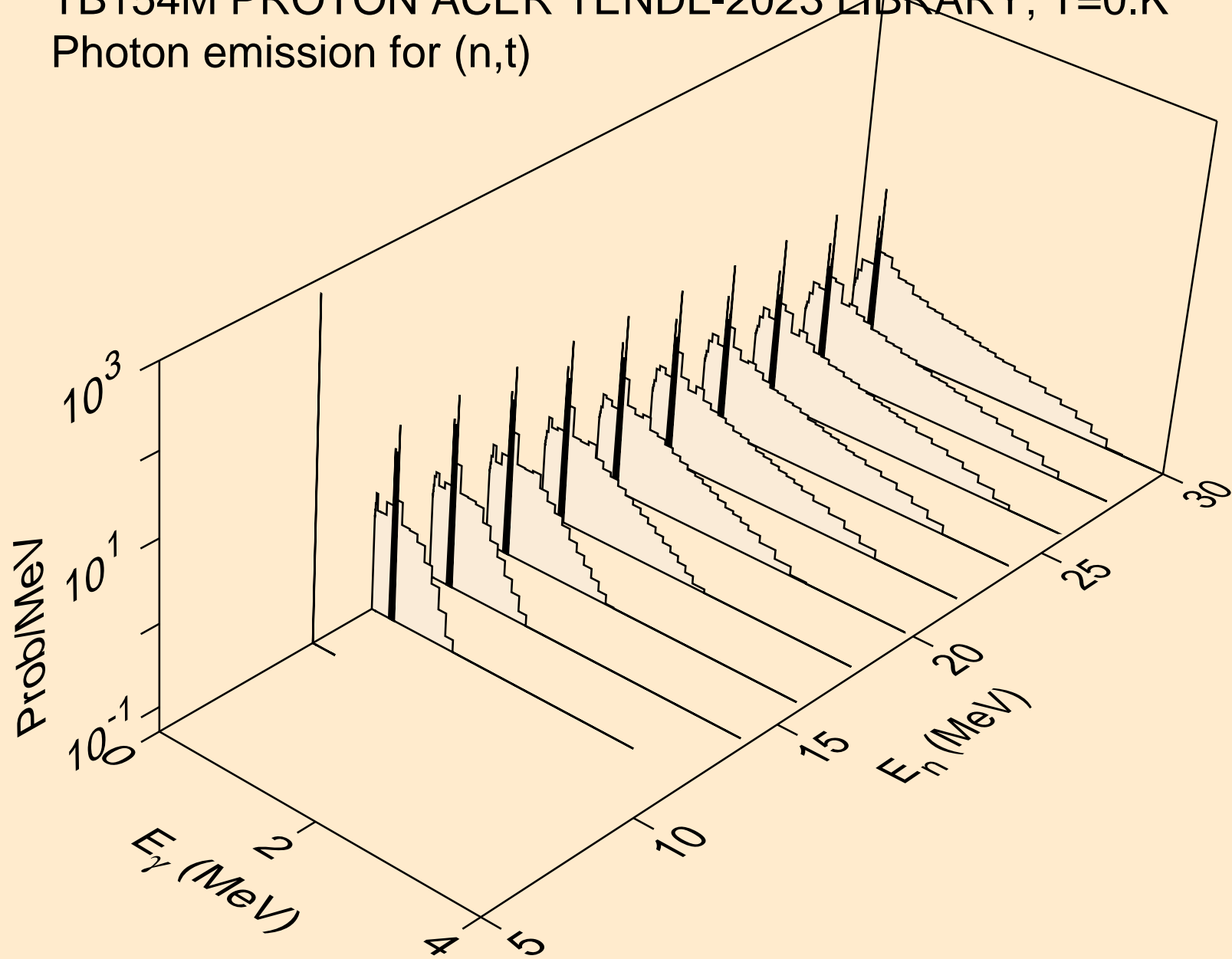
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Photon emission for inelastic



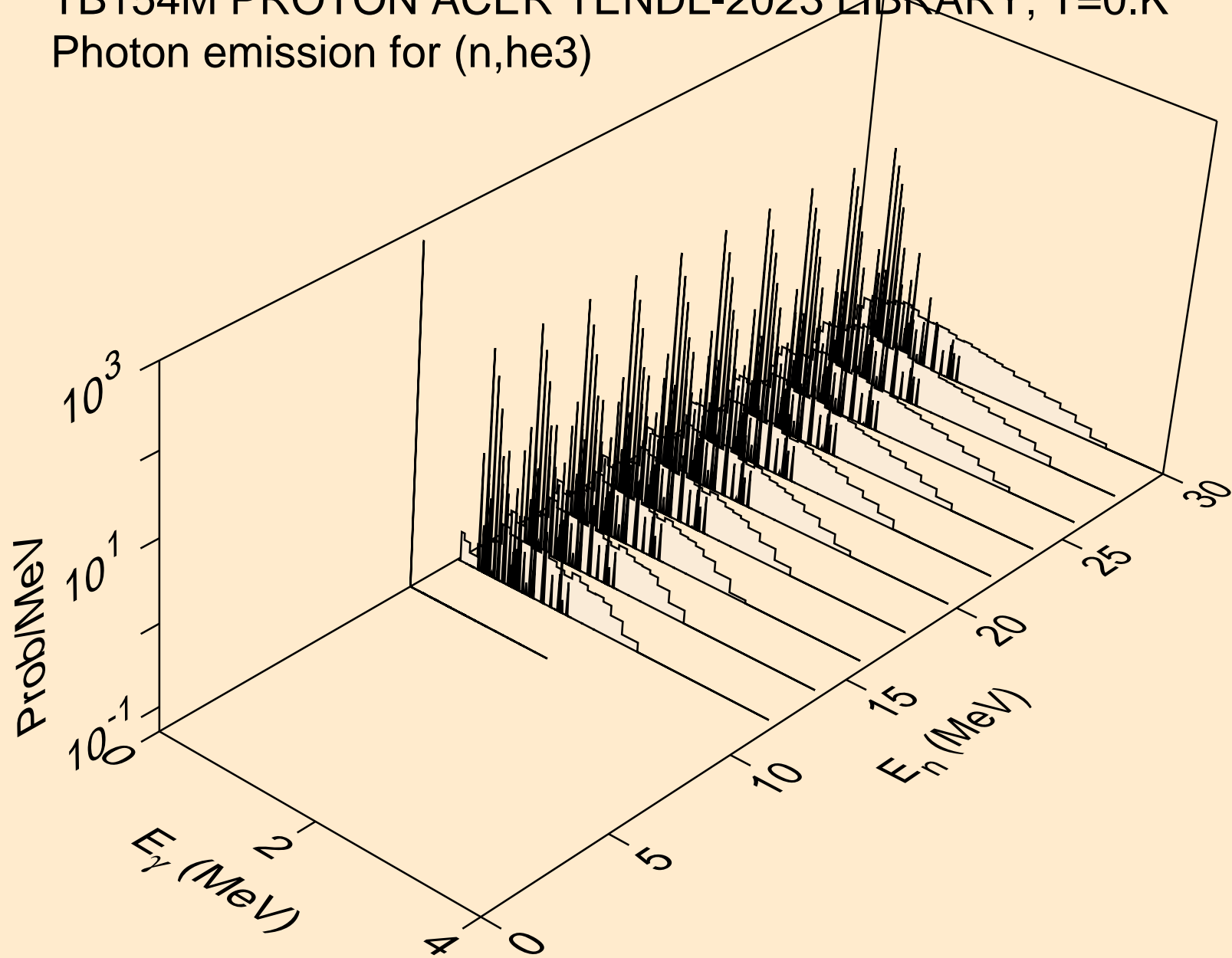
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Photon emission for (n,d)



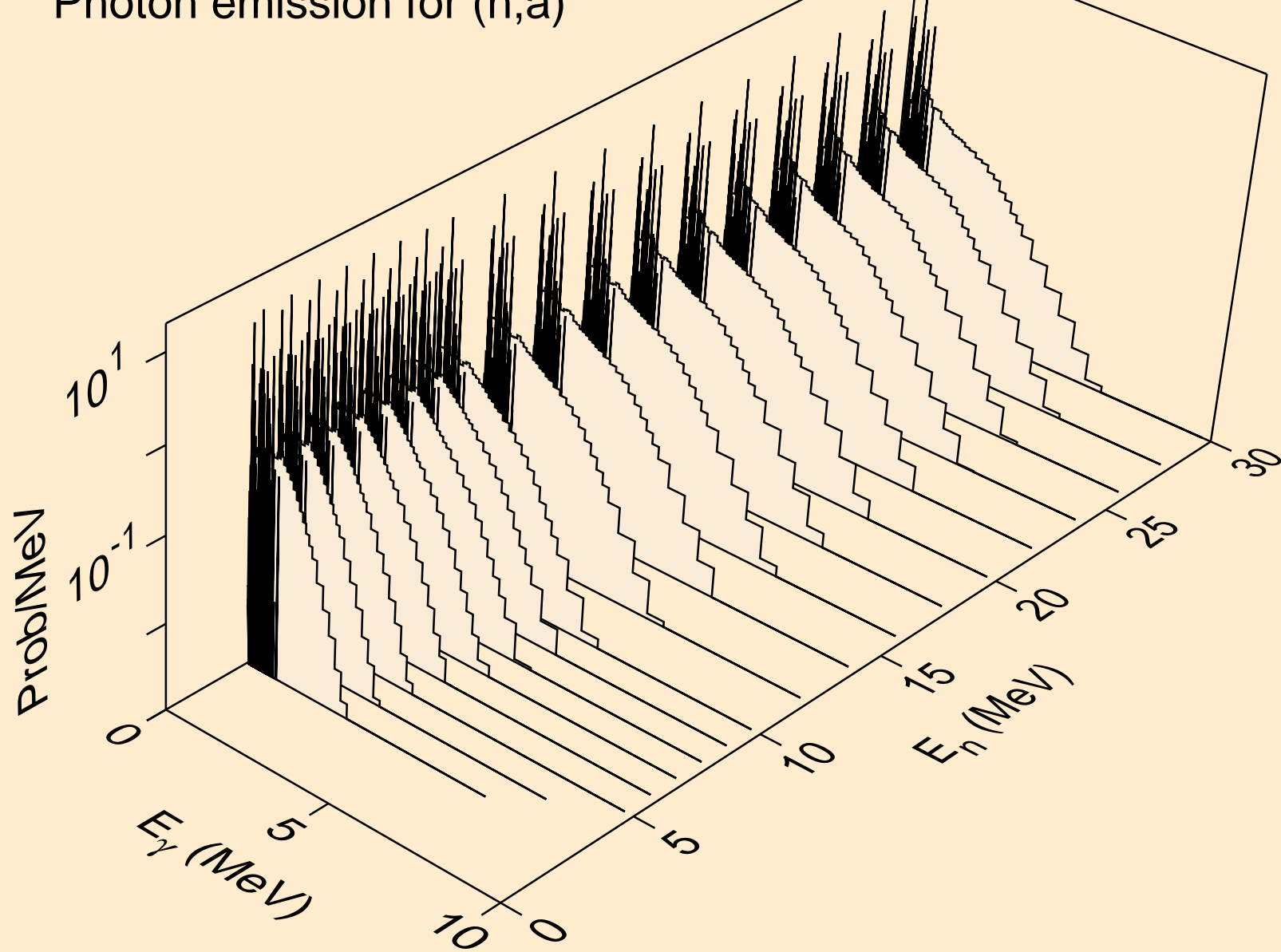
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Photon emission for (n,t)



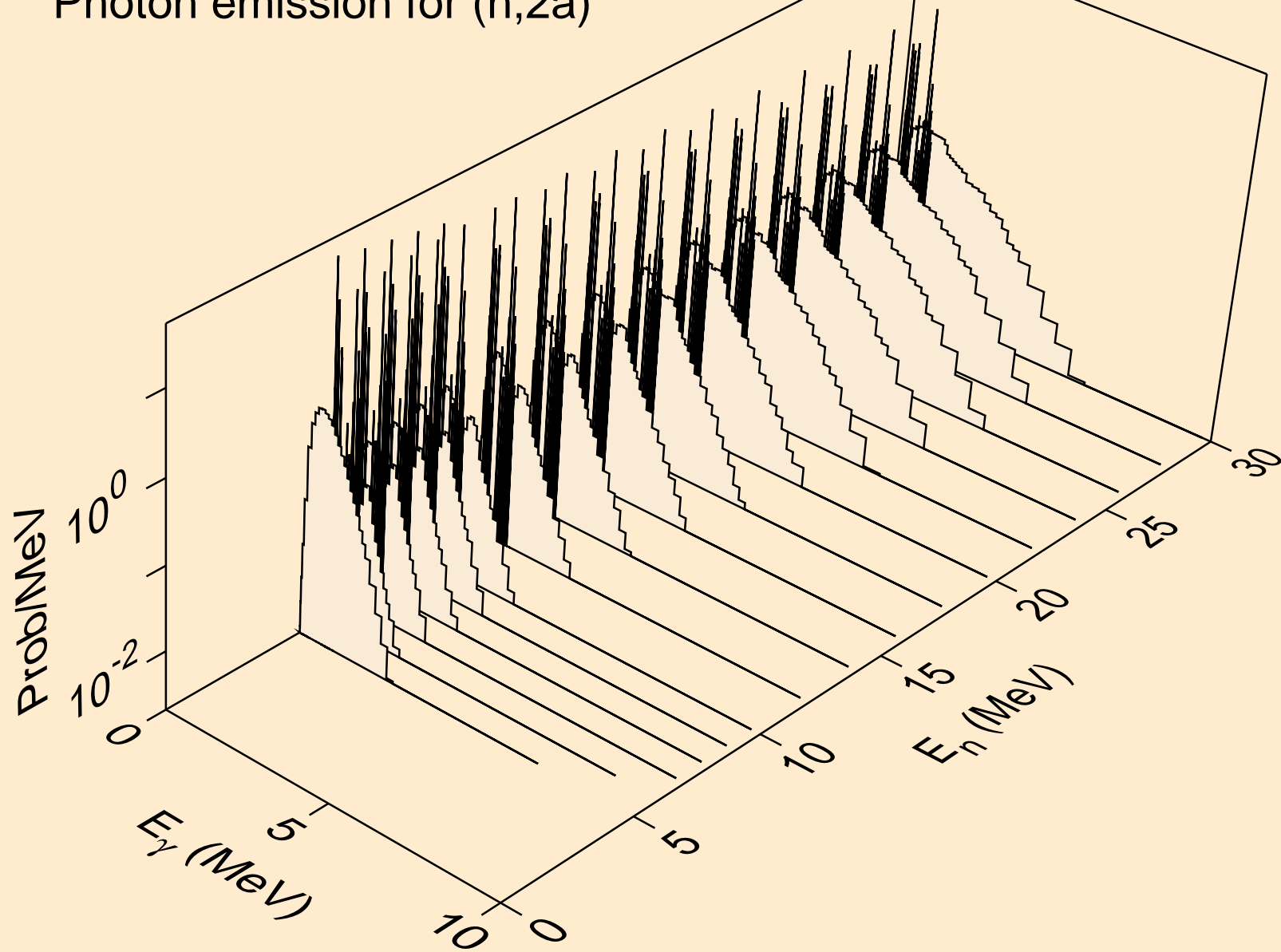
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Photon emission for (n,he3)



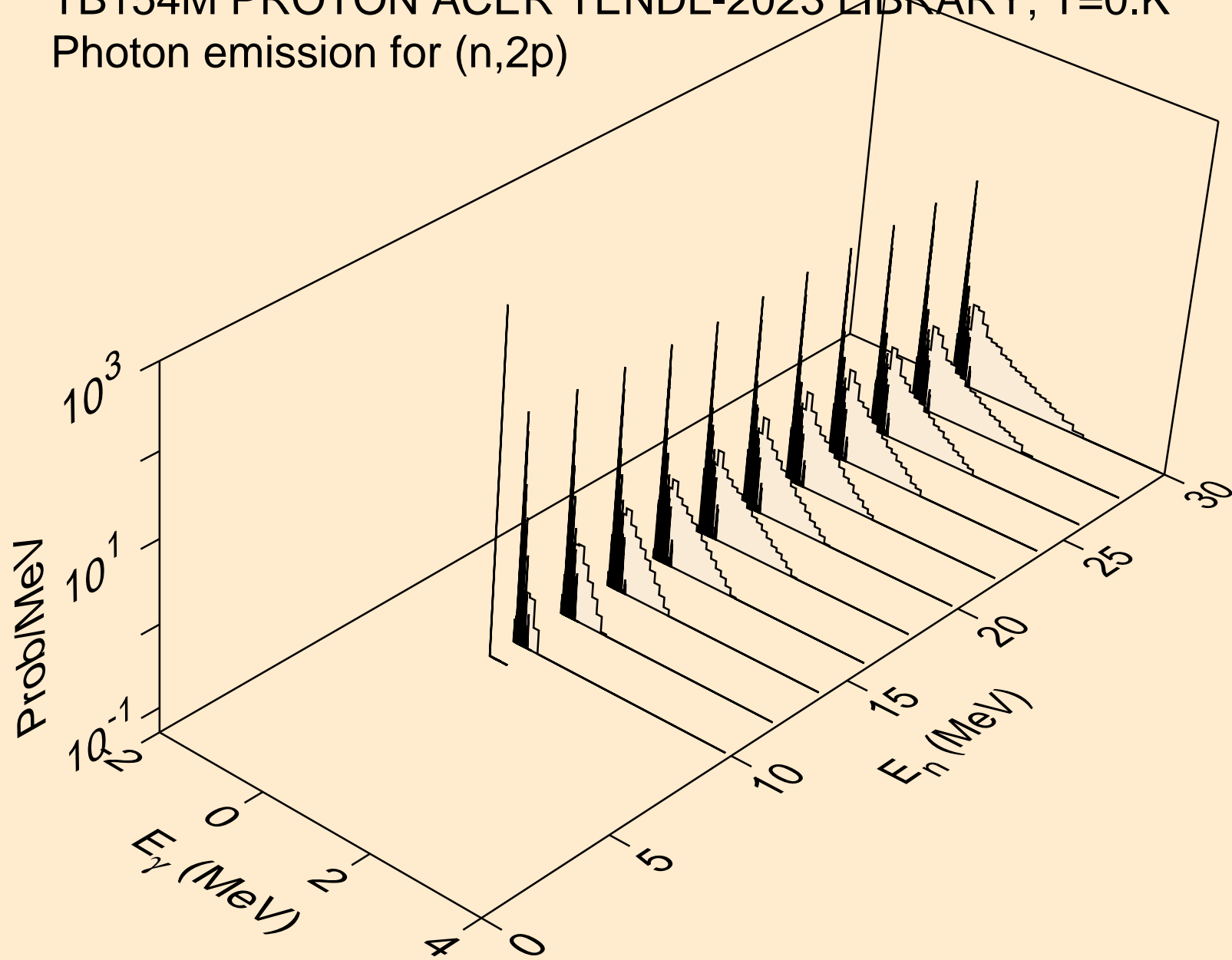
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Photon emission for (n,a)



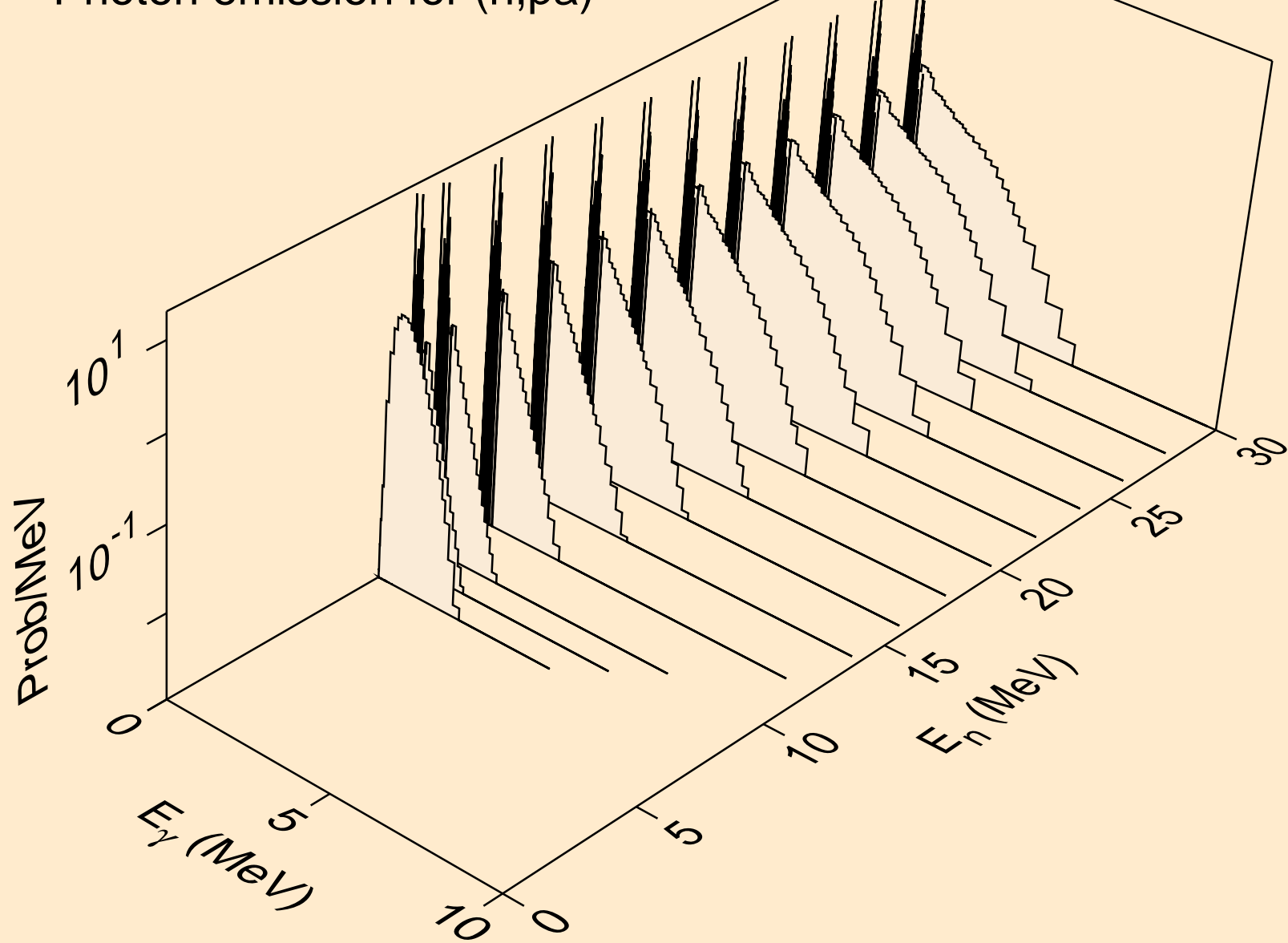
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Photon emission for (n,2a)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

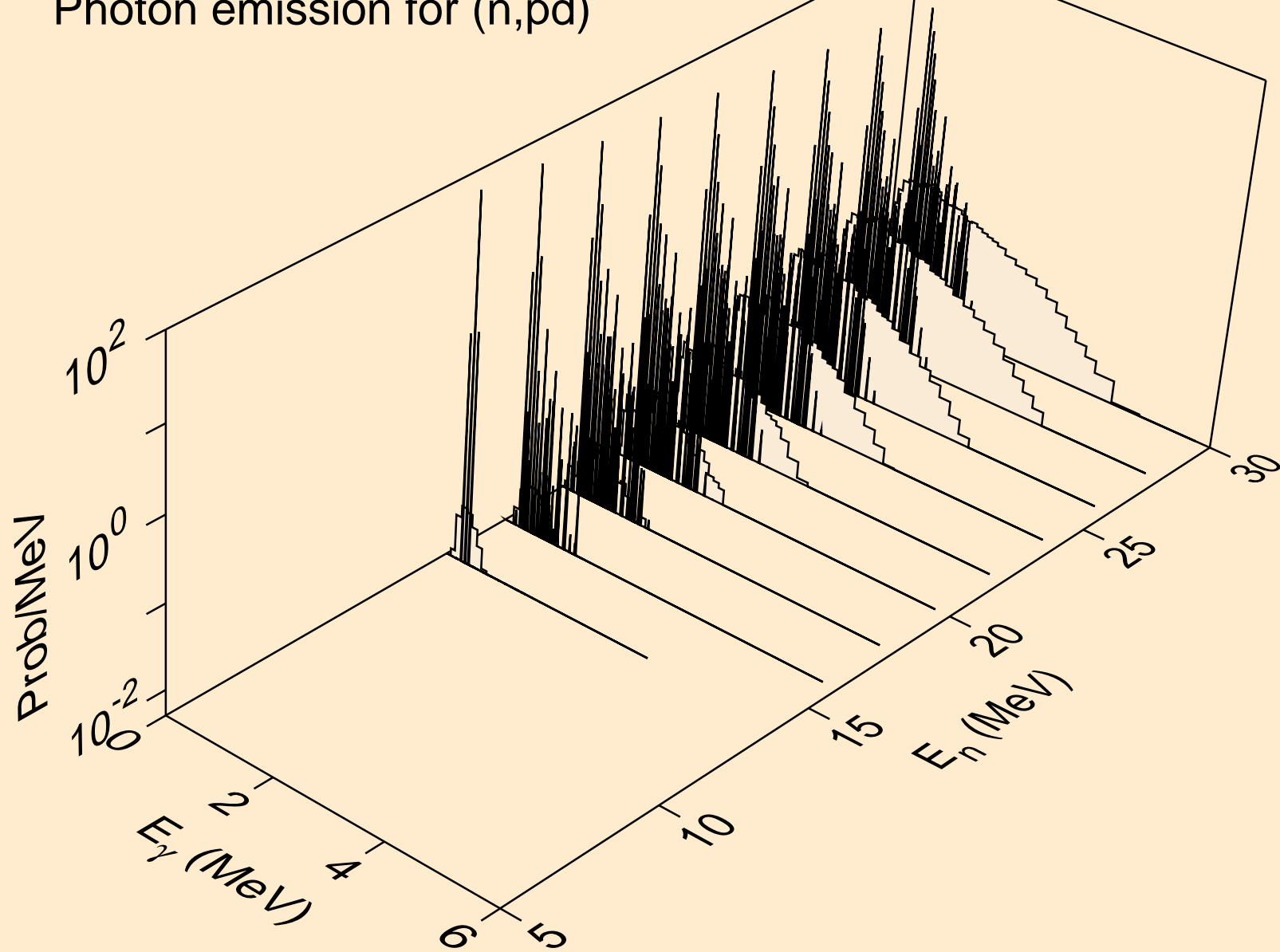


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Photon emission for (n,p)

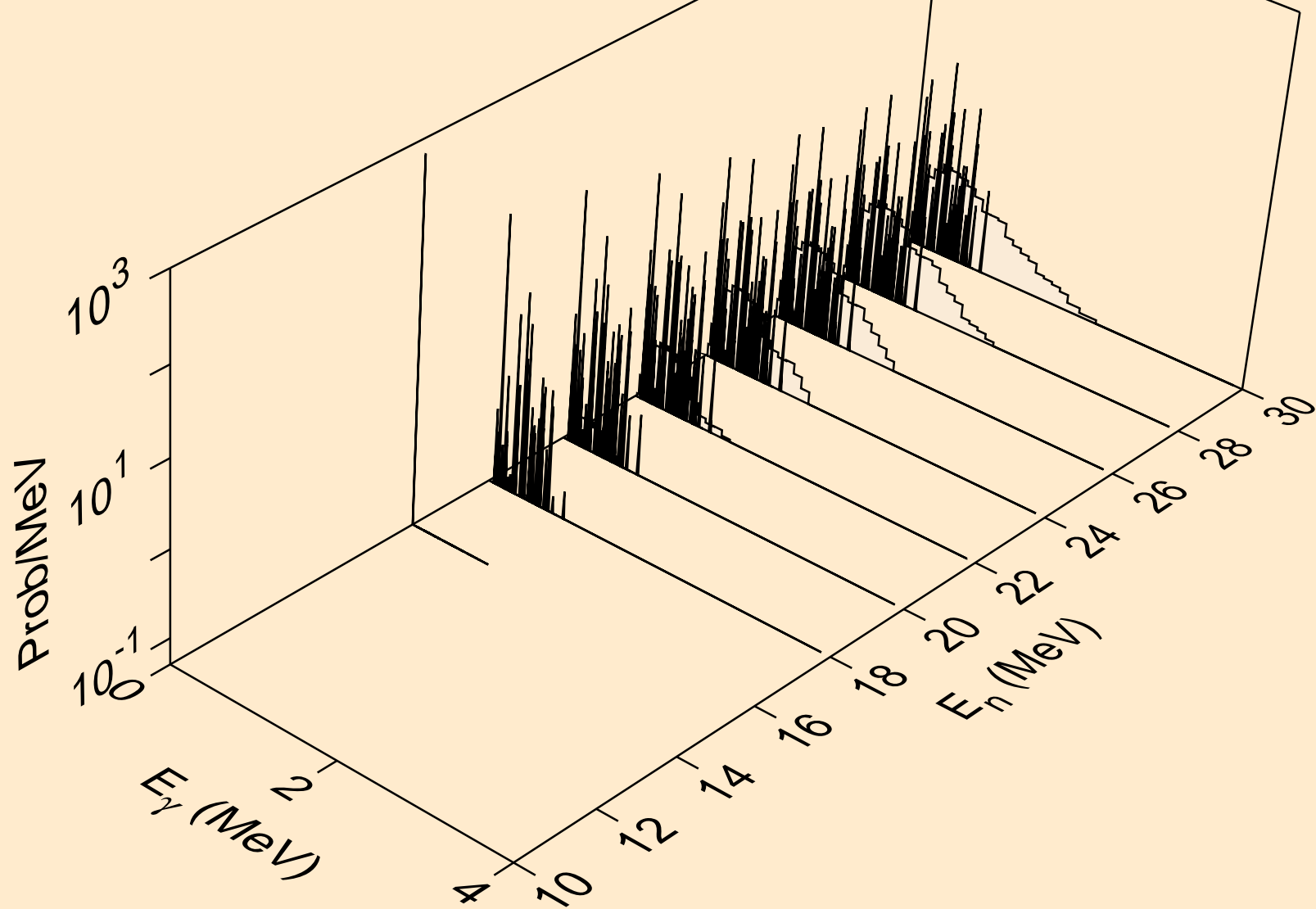




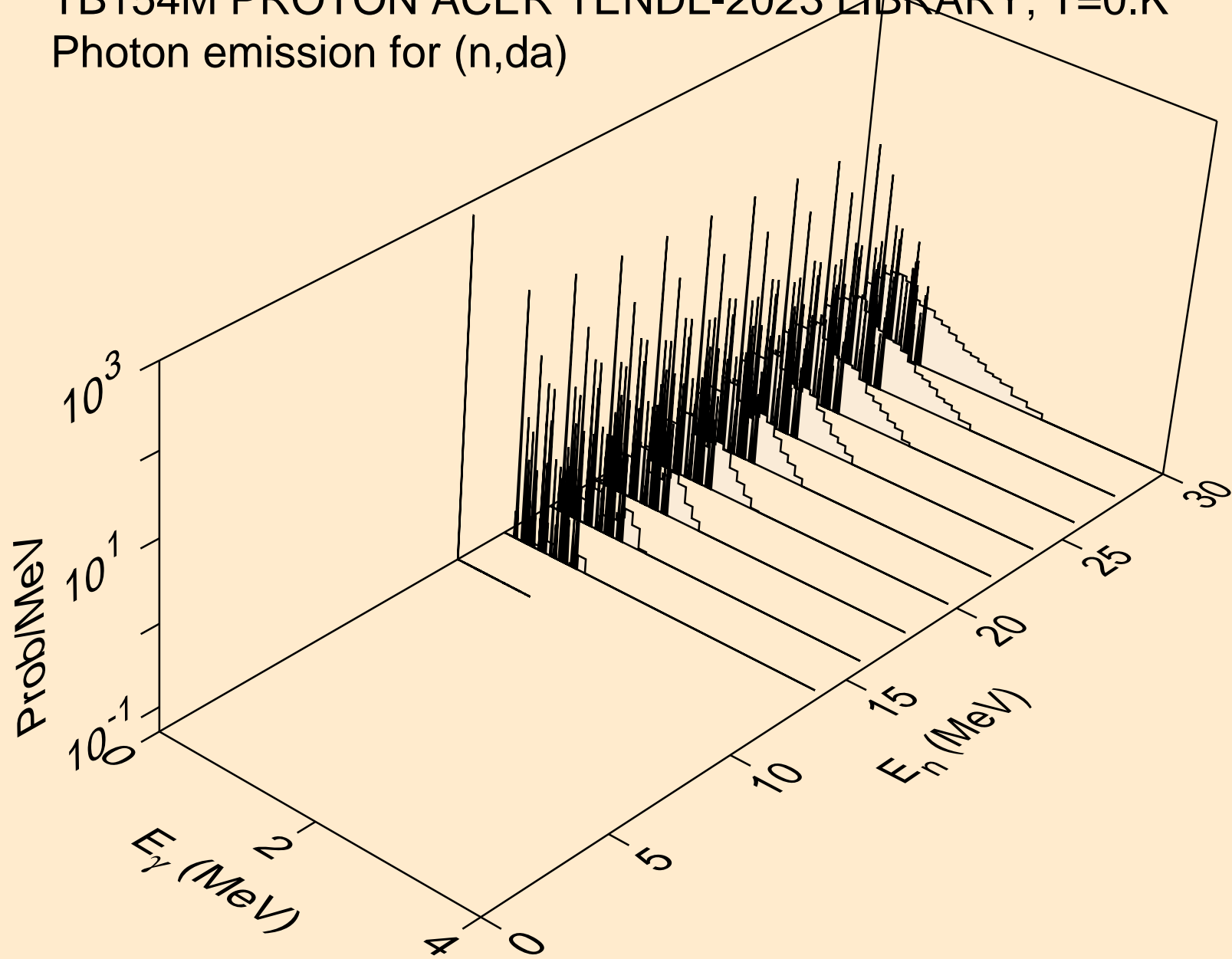
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



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Photon emission for (n,pt)

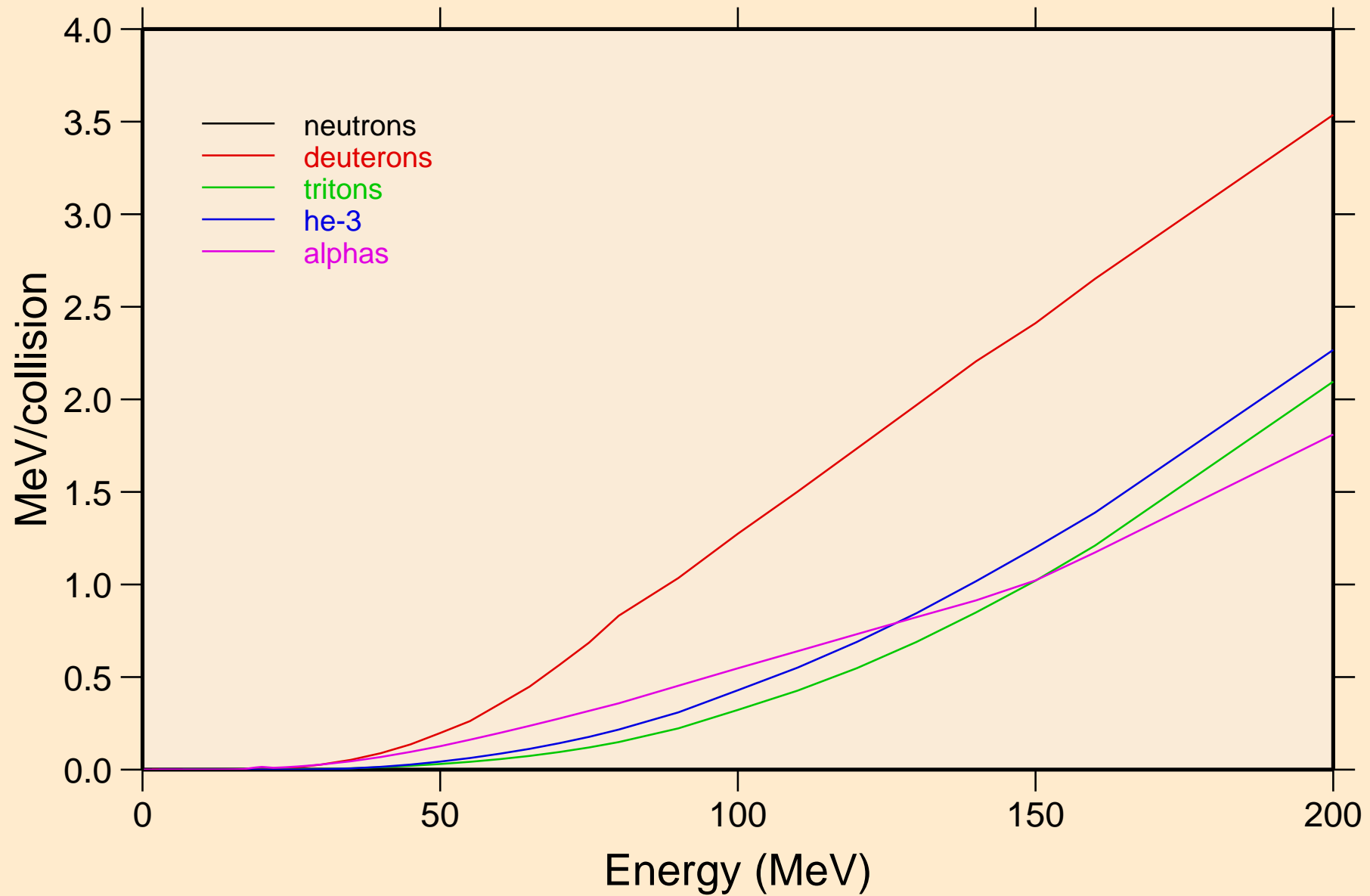


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Photon emission for (n,da)

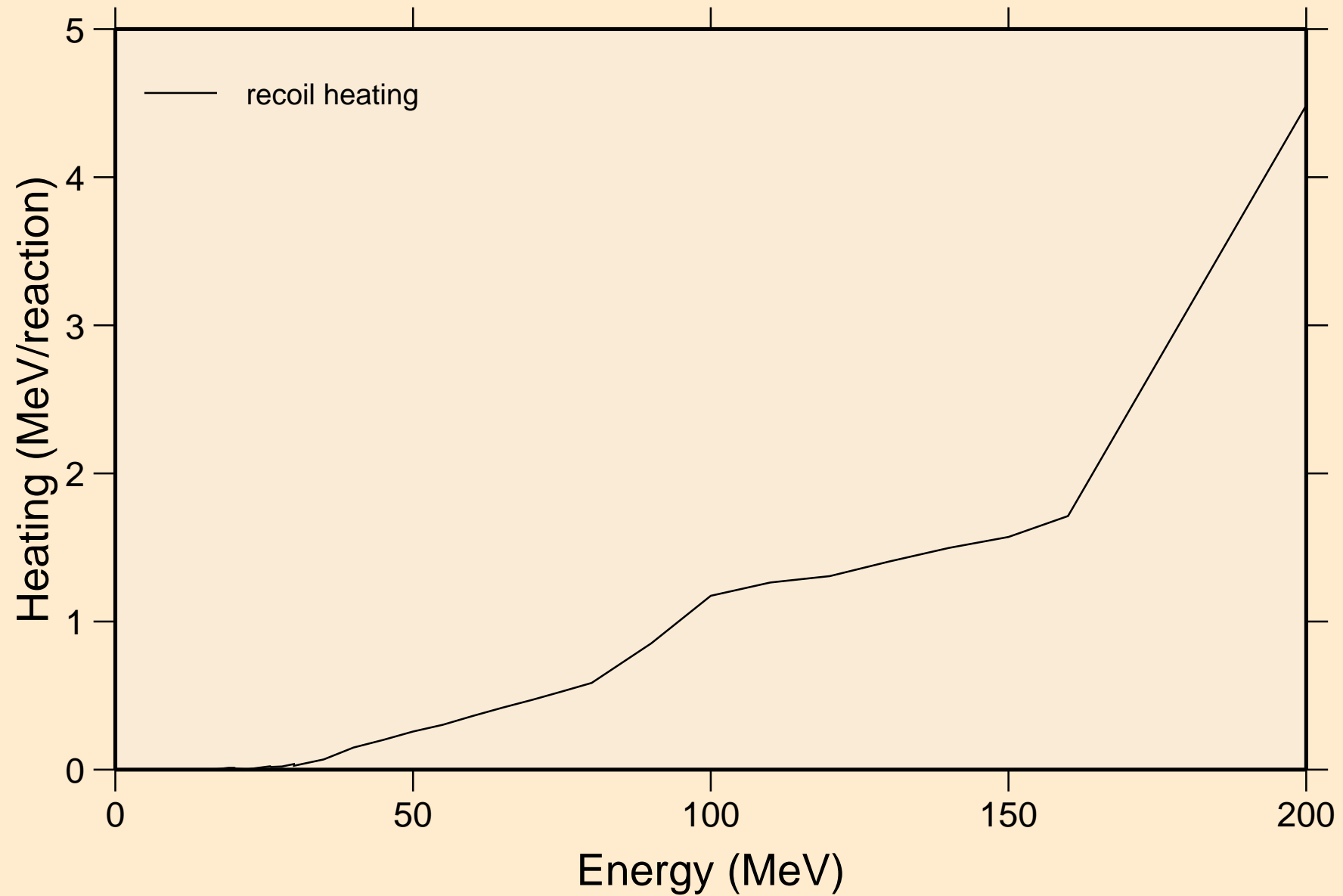


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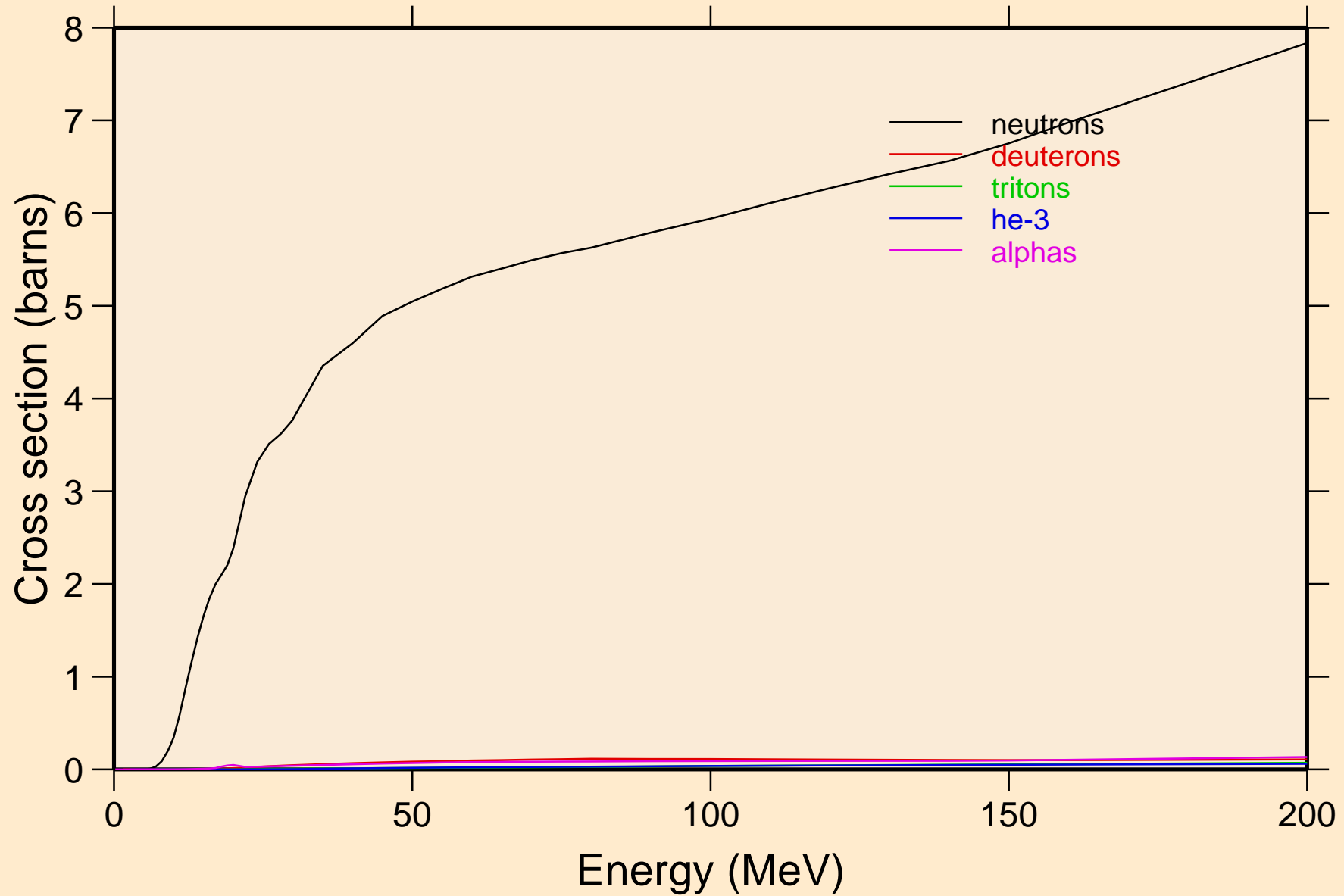
## Particle heating contributions



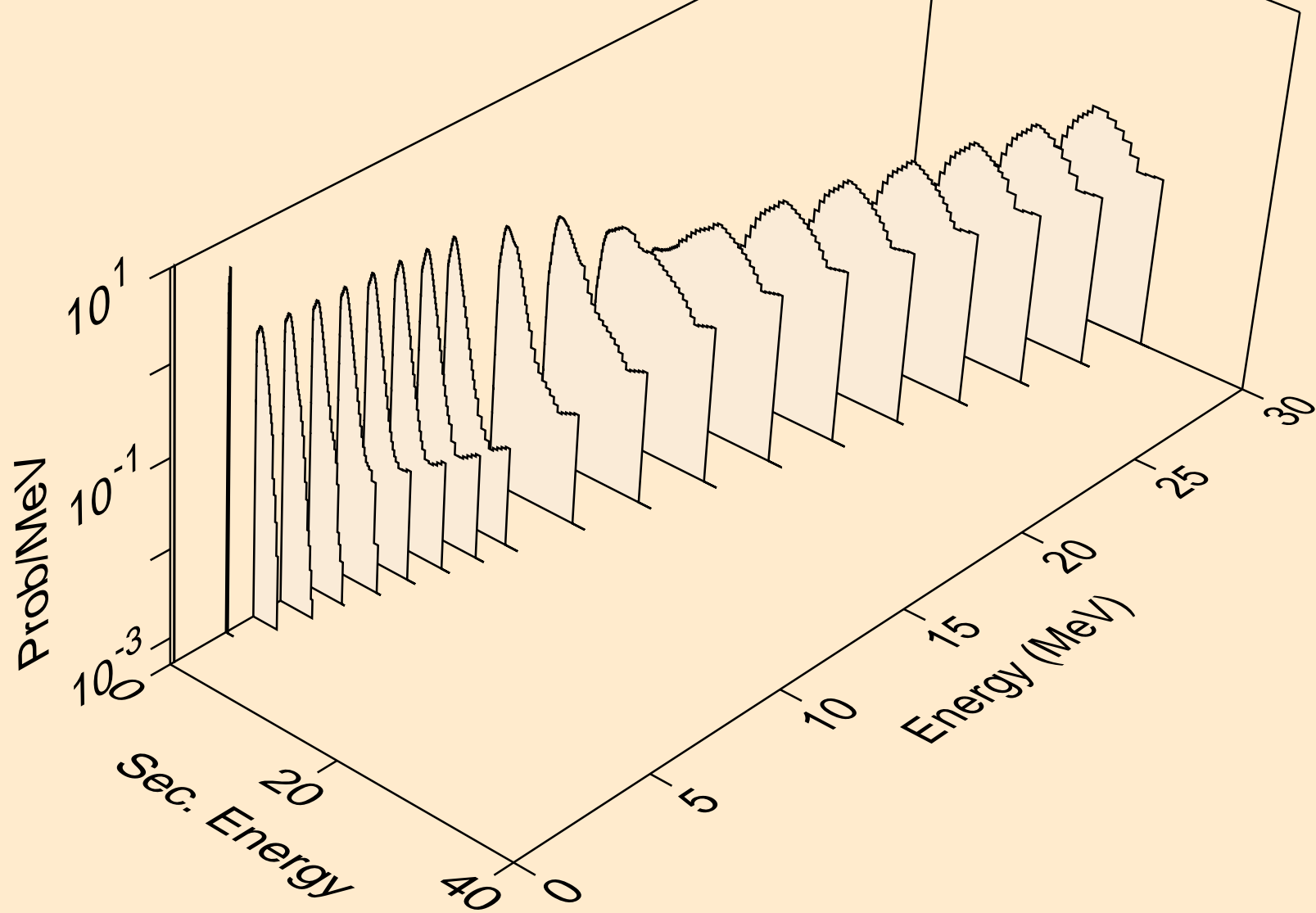
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Recoil Heating



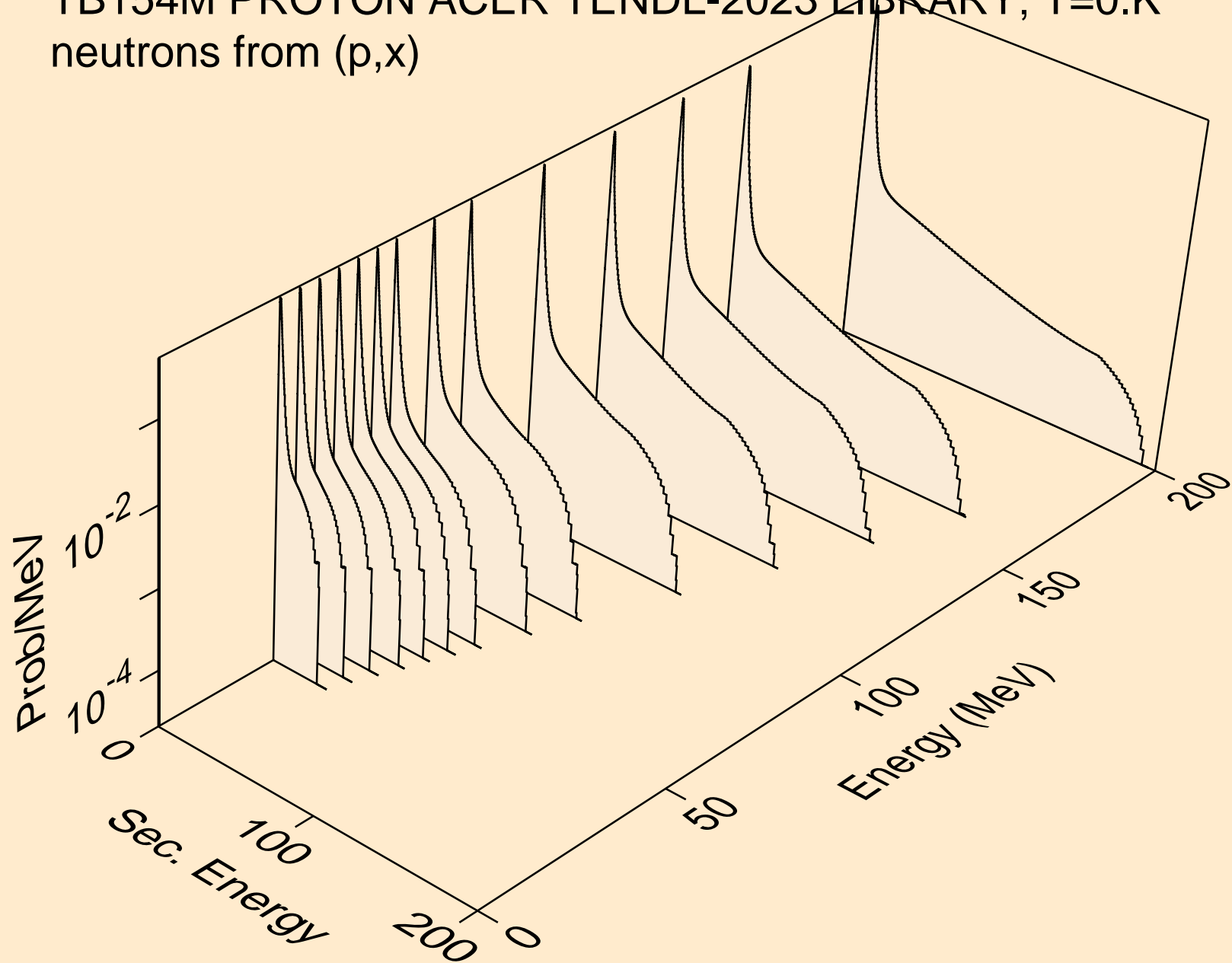
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)

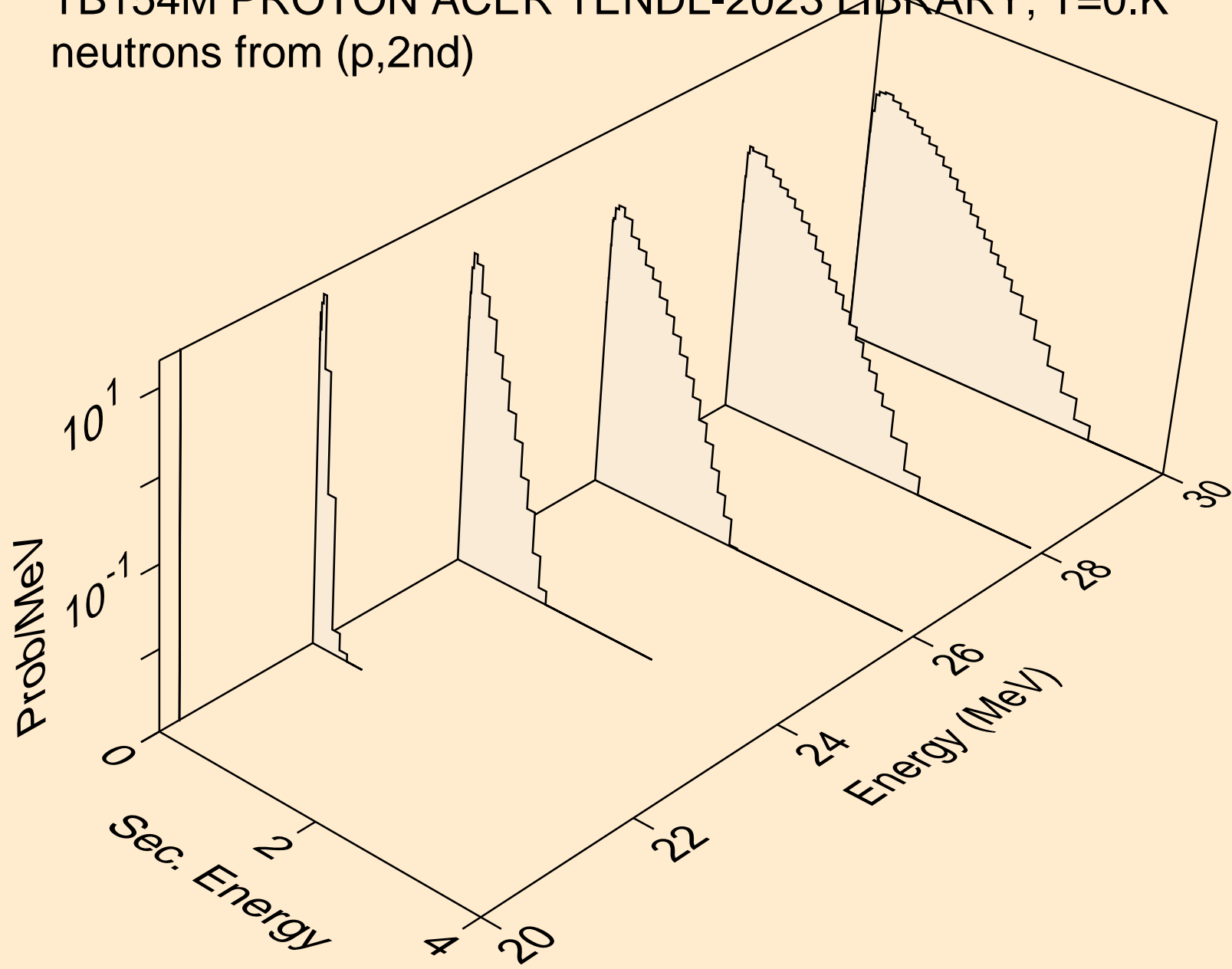


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neutrons from (p,x)

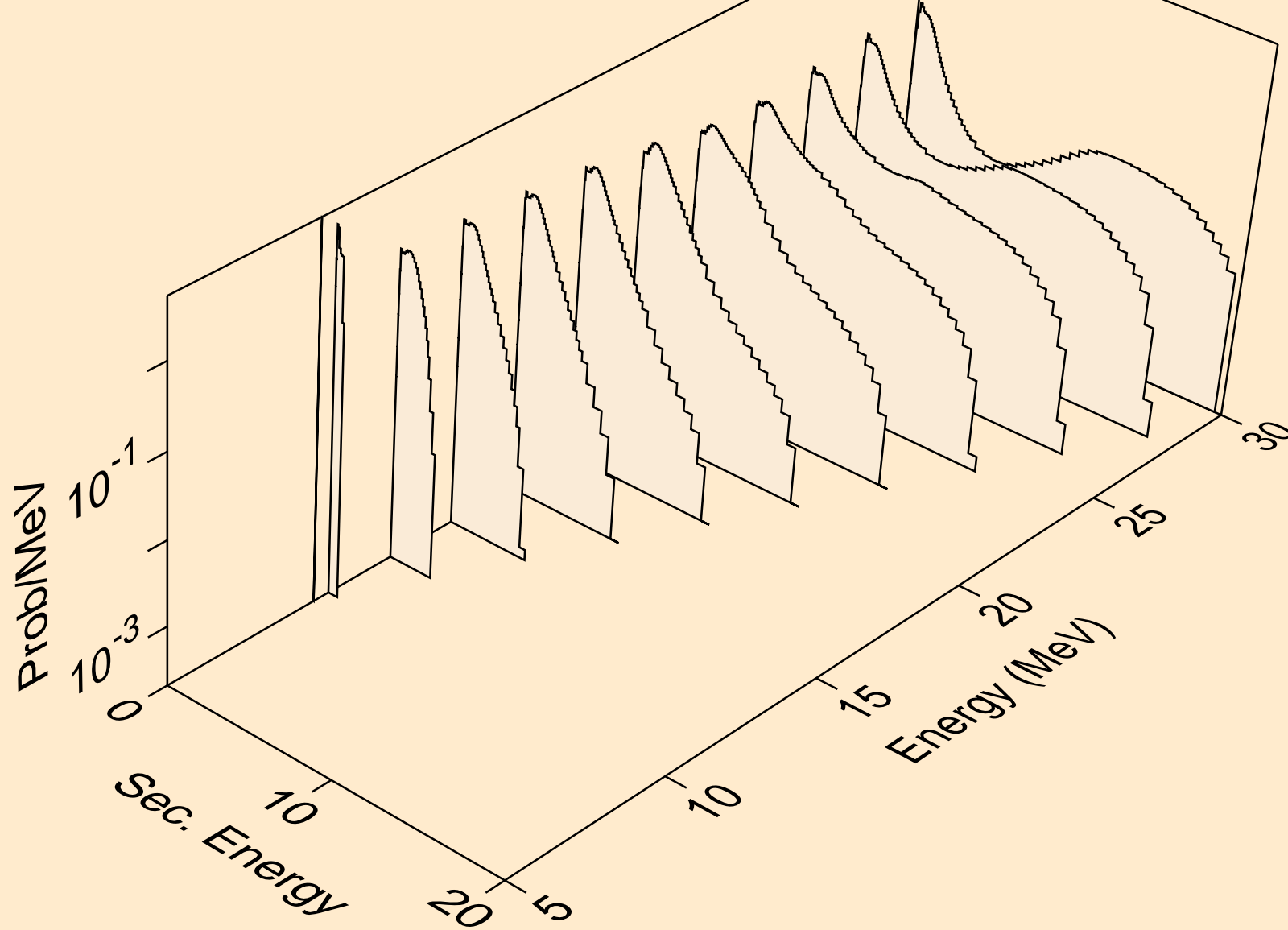




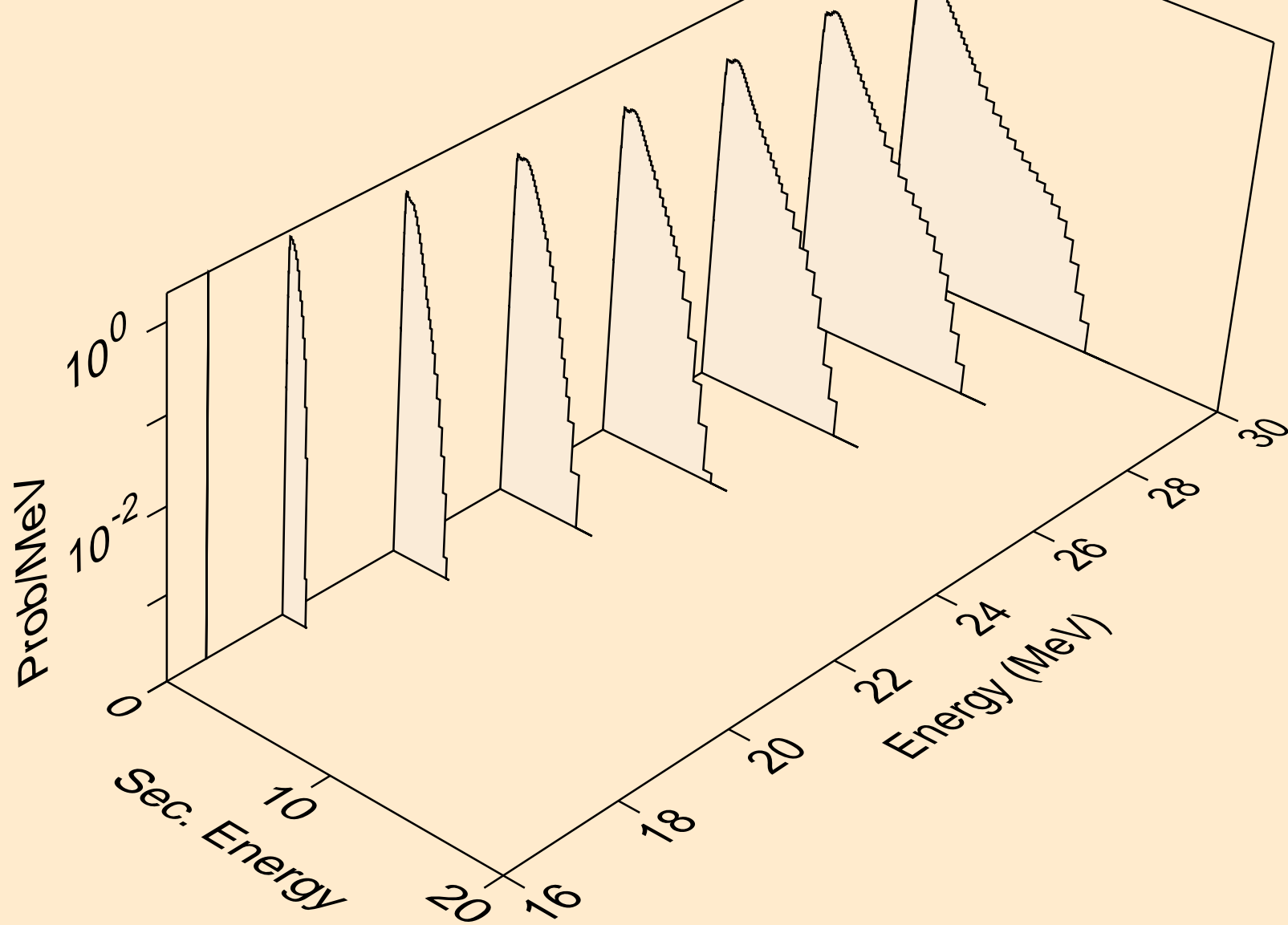
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neutrons from (p,2nd)



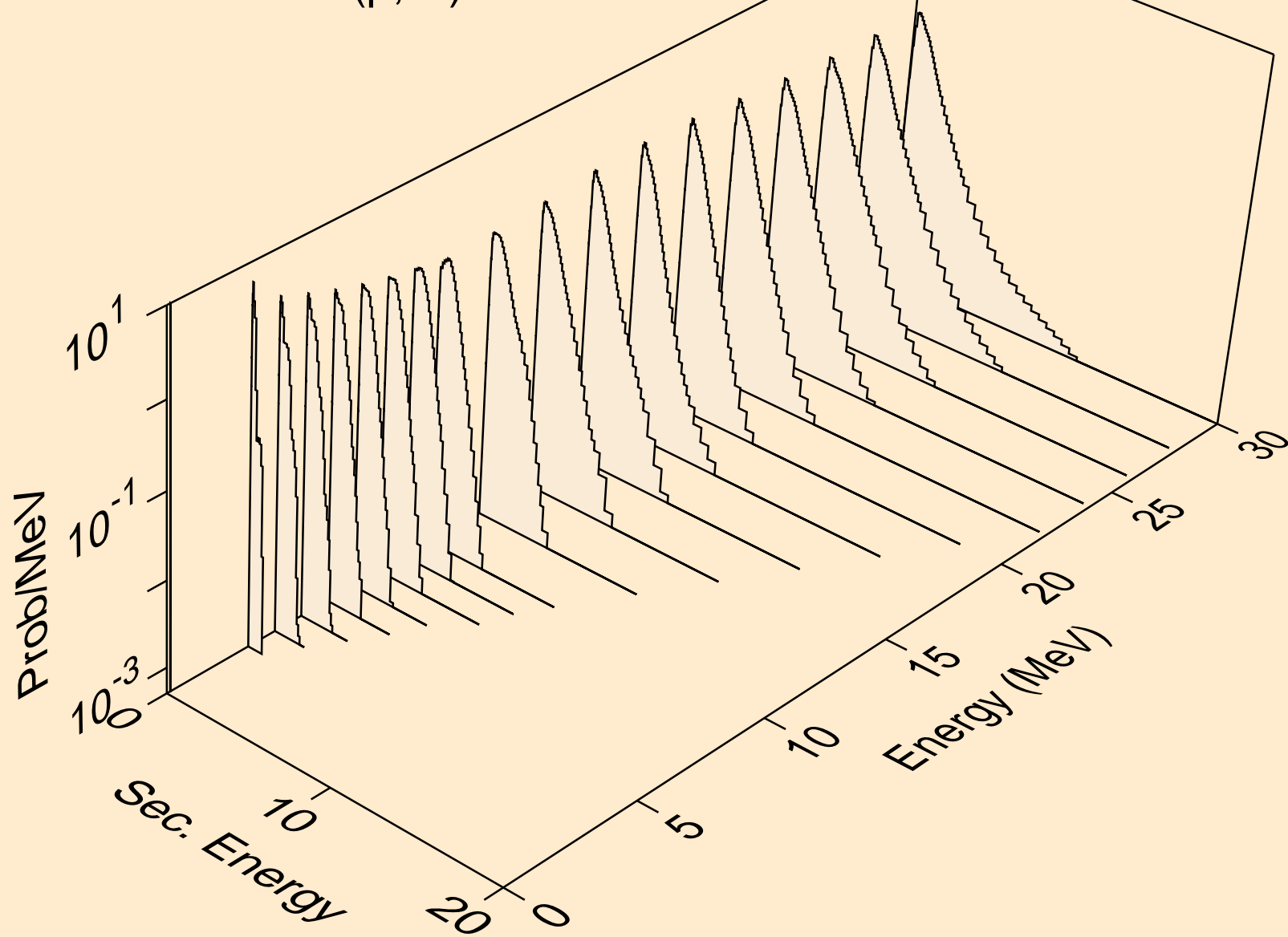
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neutrons from (p,2n)



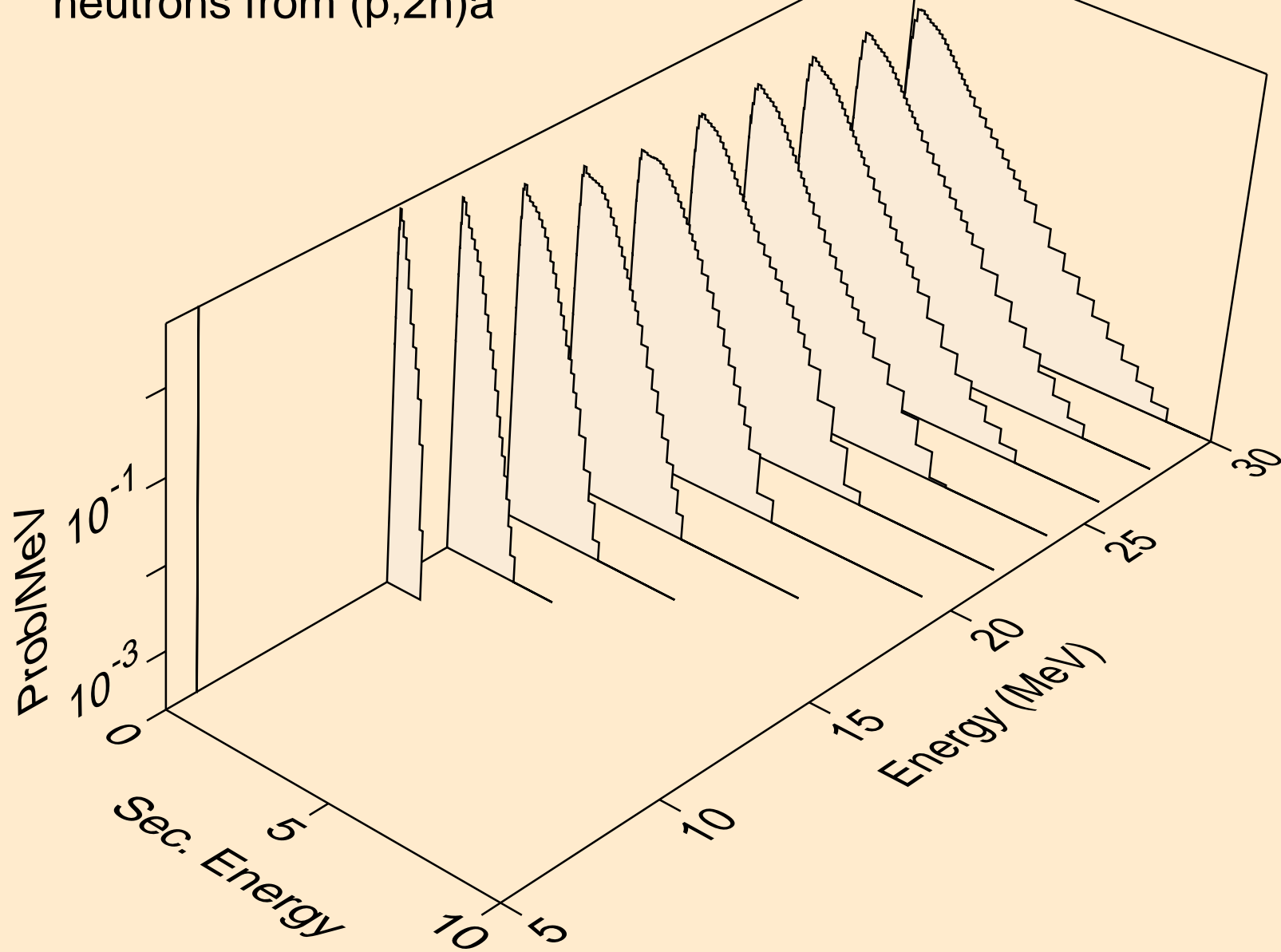
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neutrons from (p,3n)



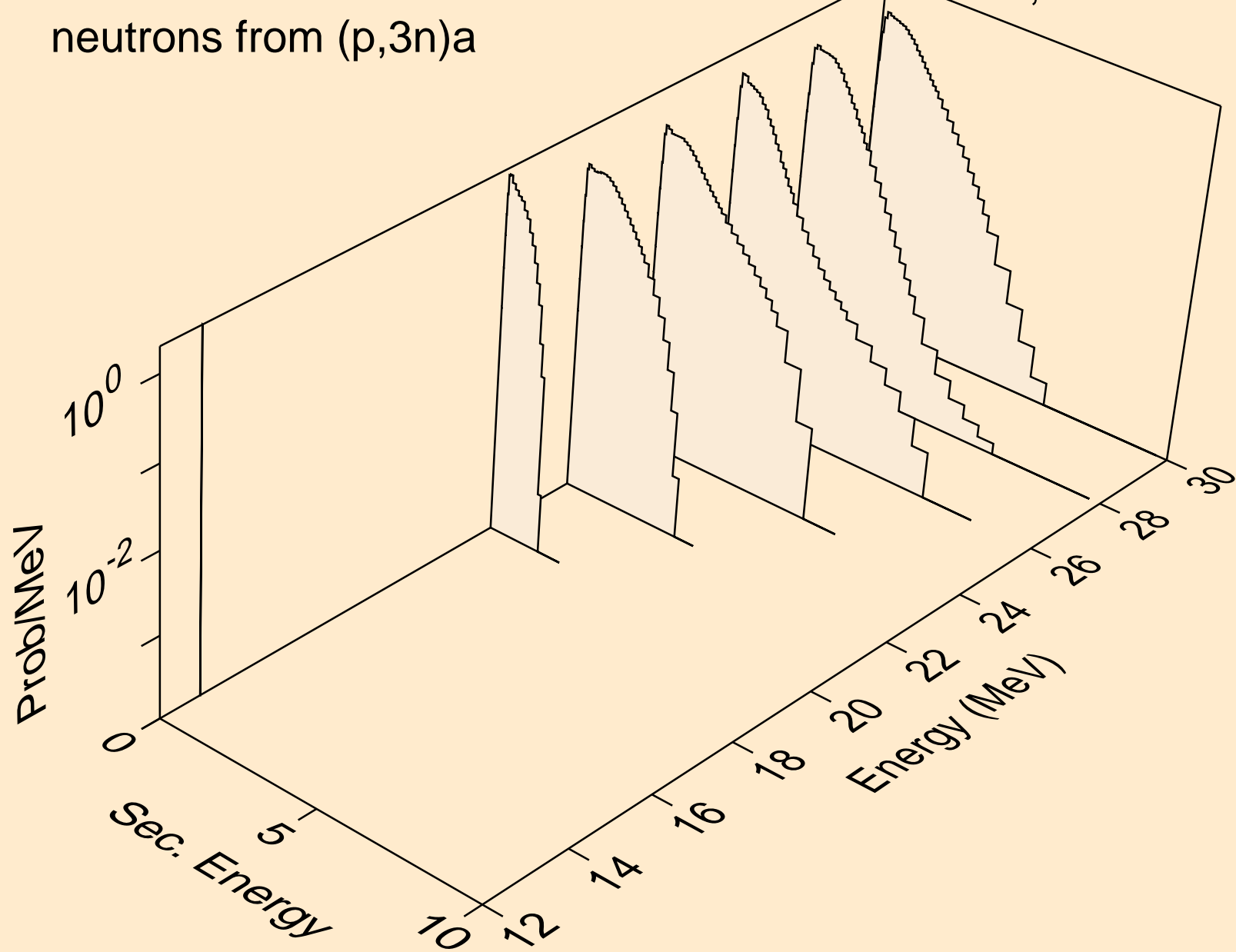
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neutrons from (p,n\*)a



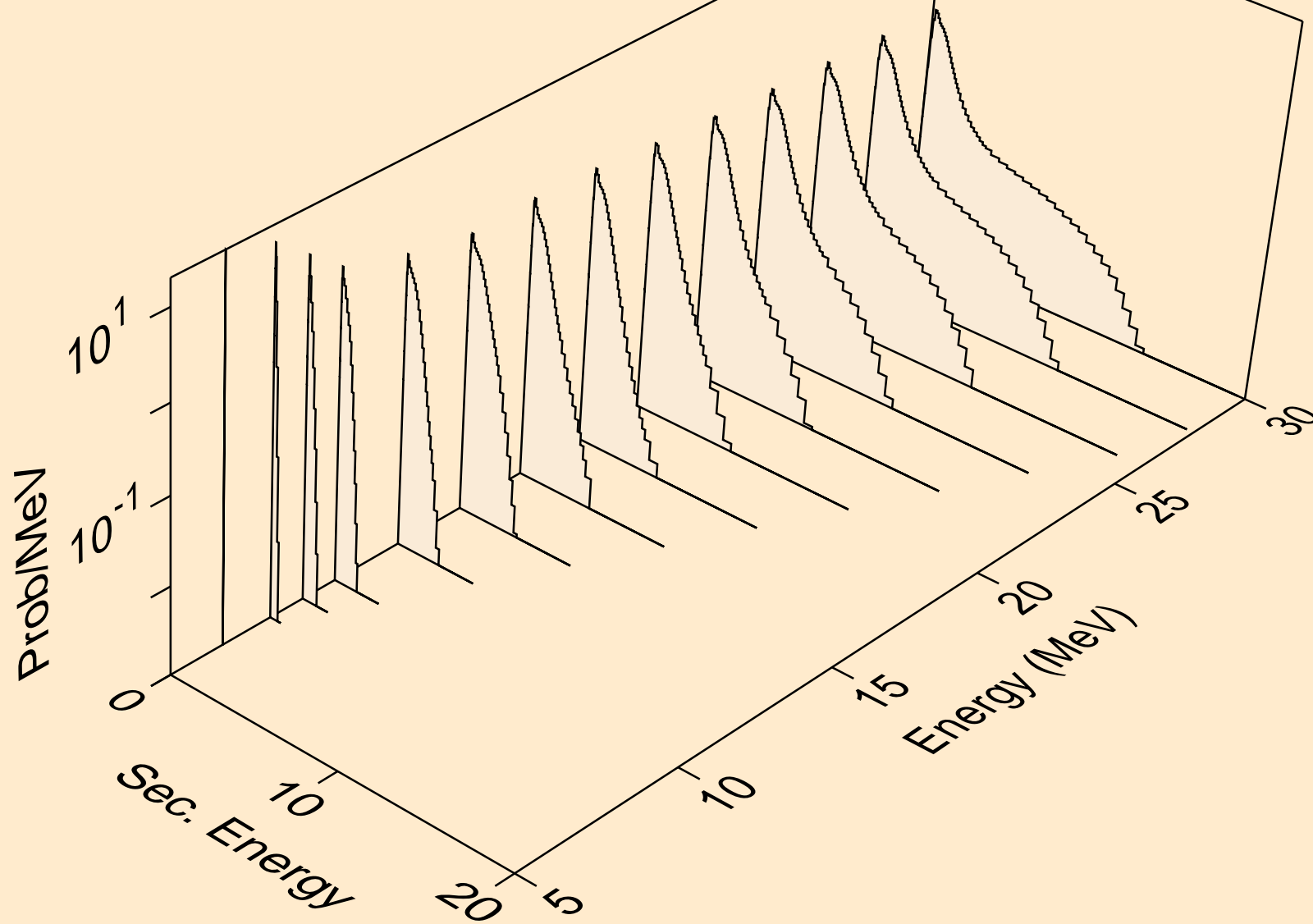
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neutrons from (p,2n)a



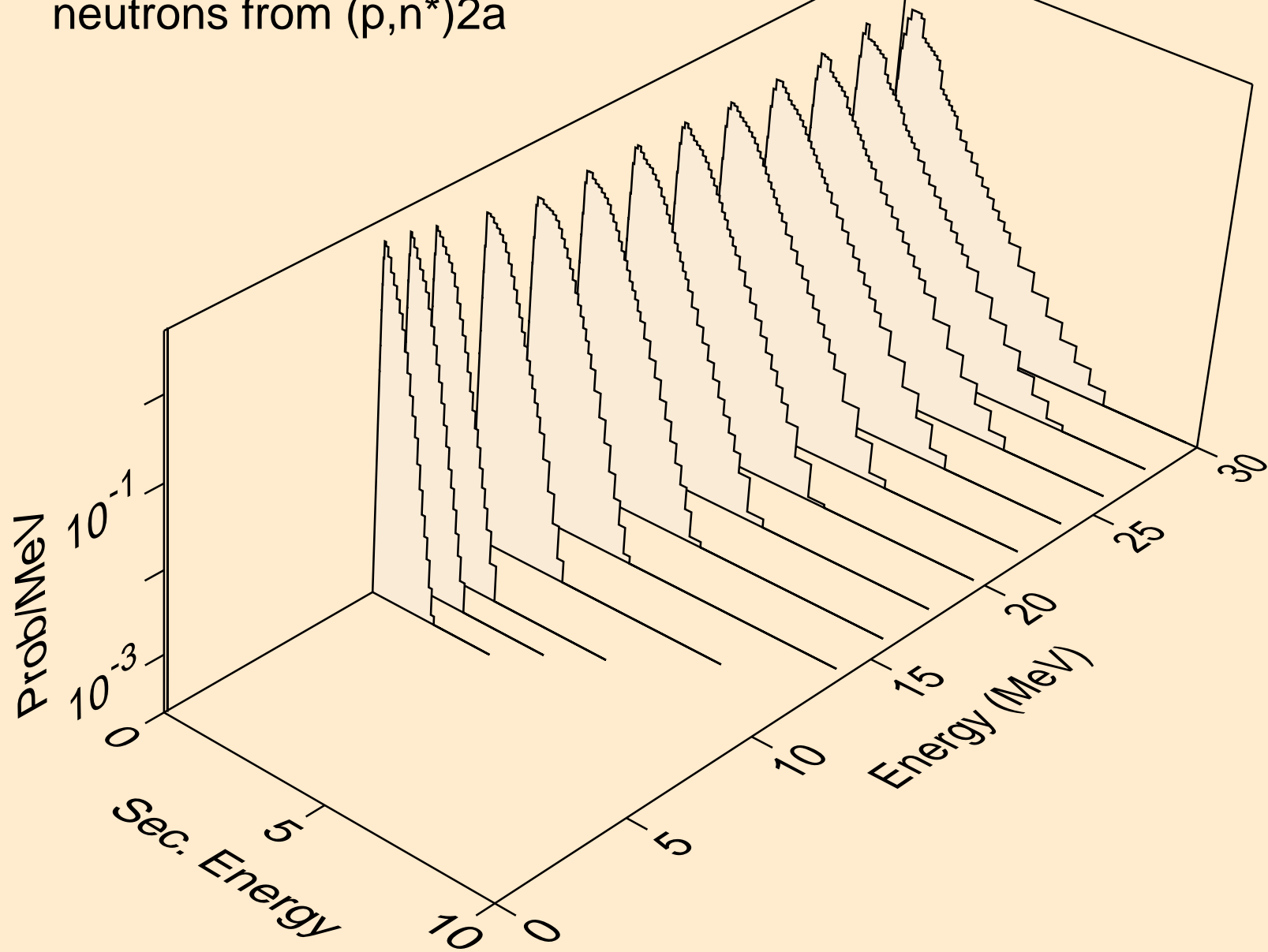
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p

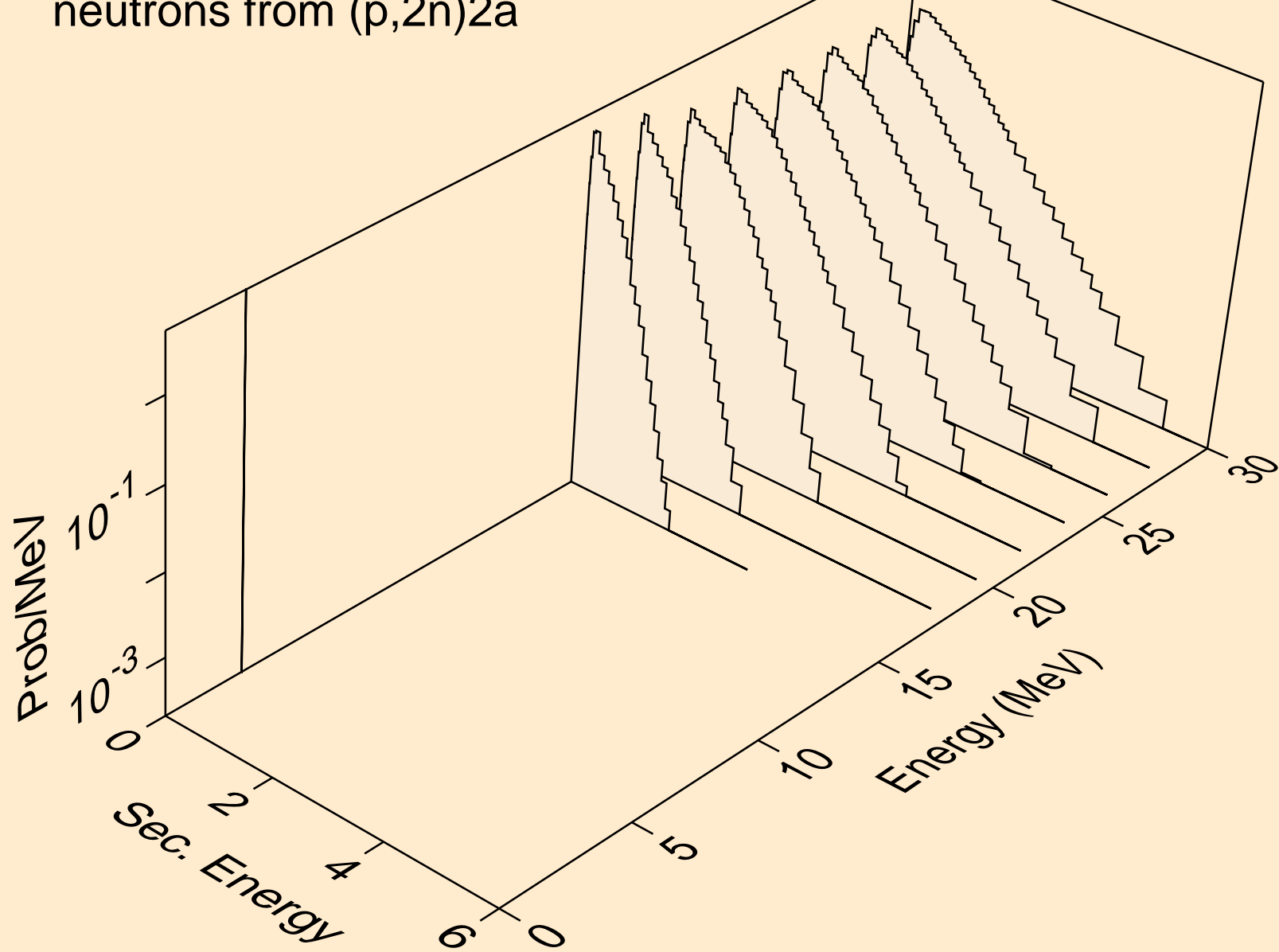


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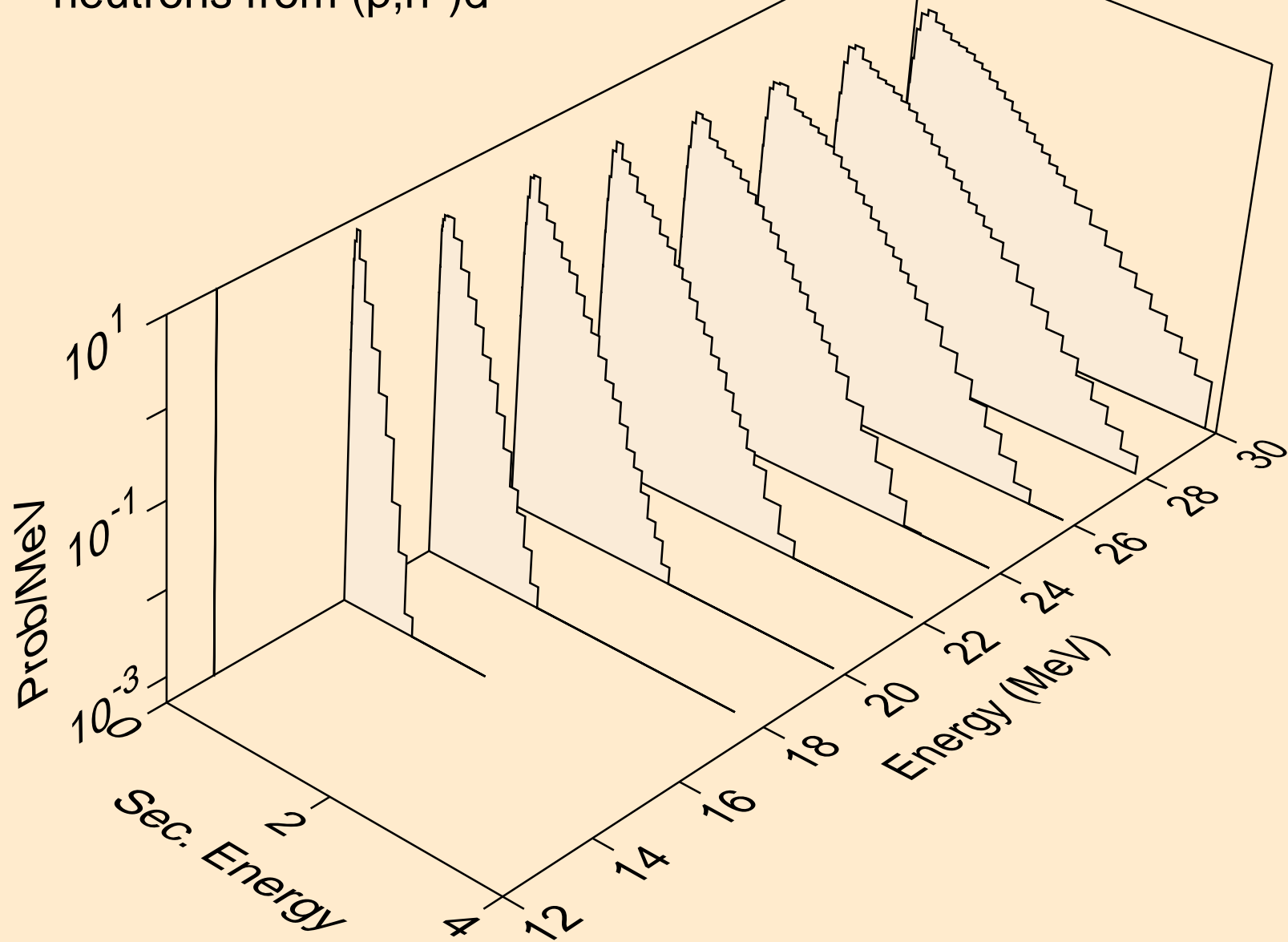




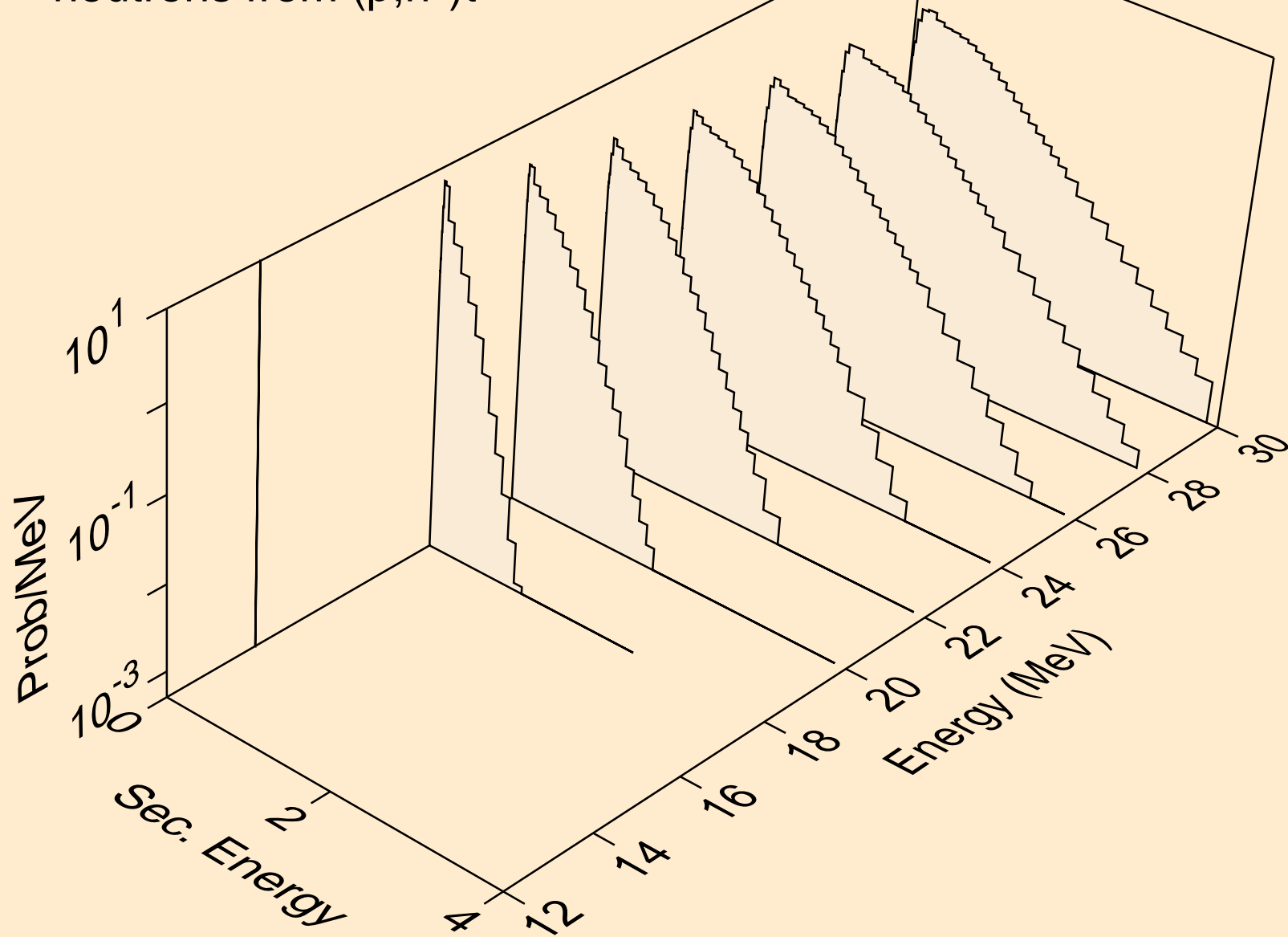
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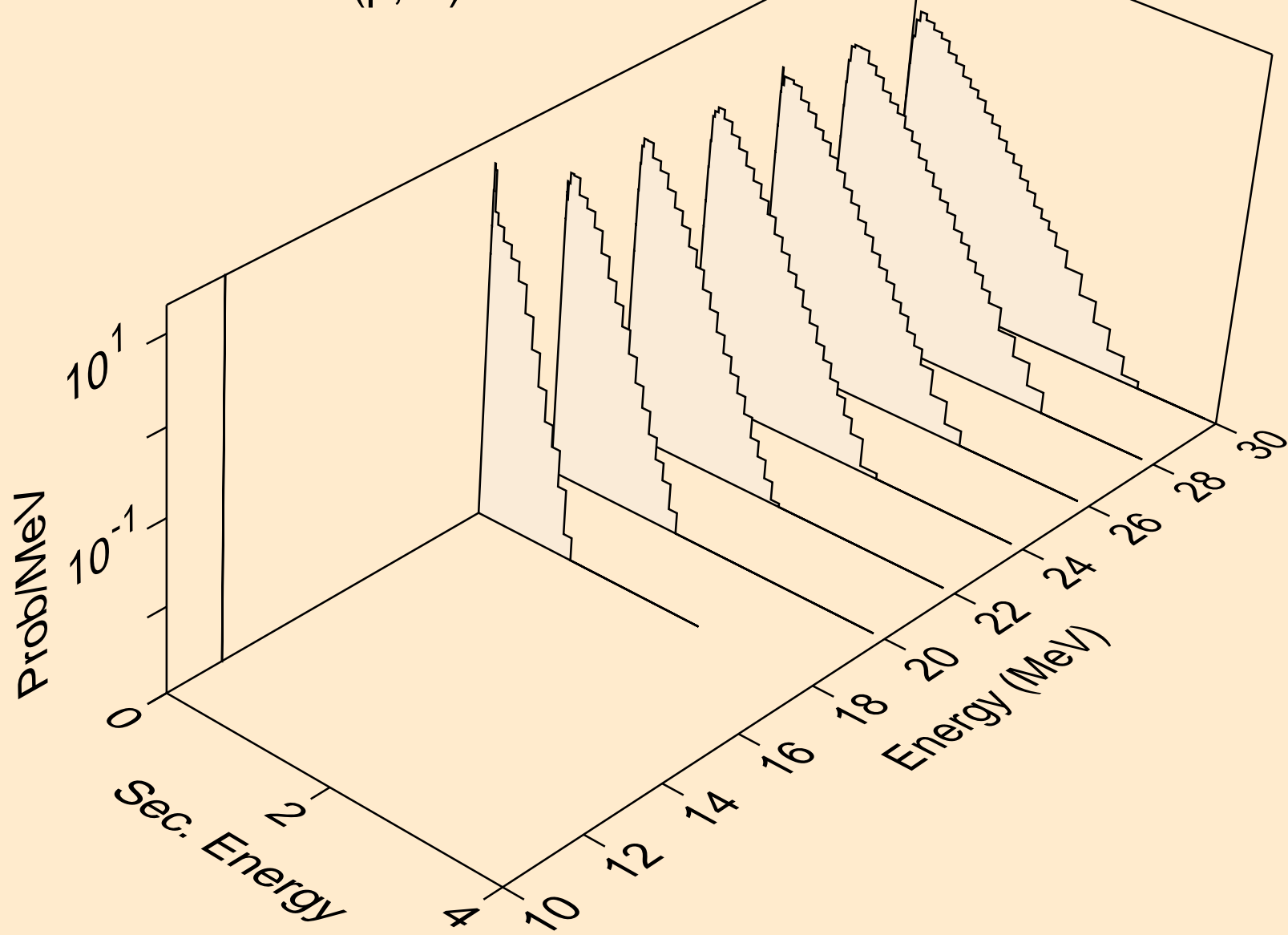
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neutrons from (p,n\*)d



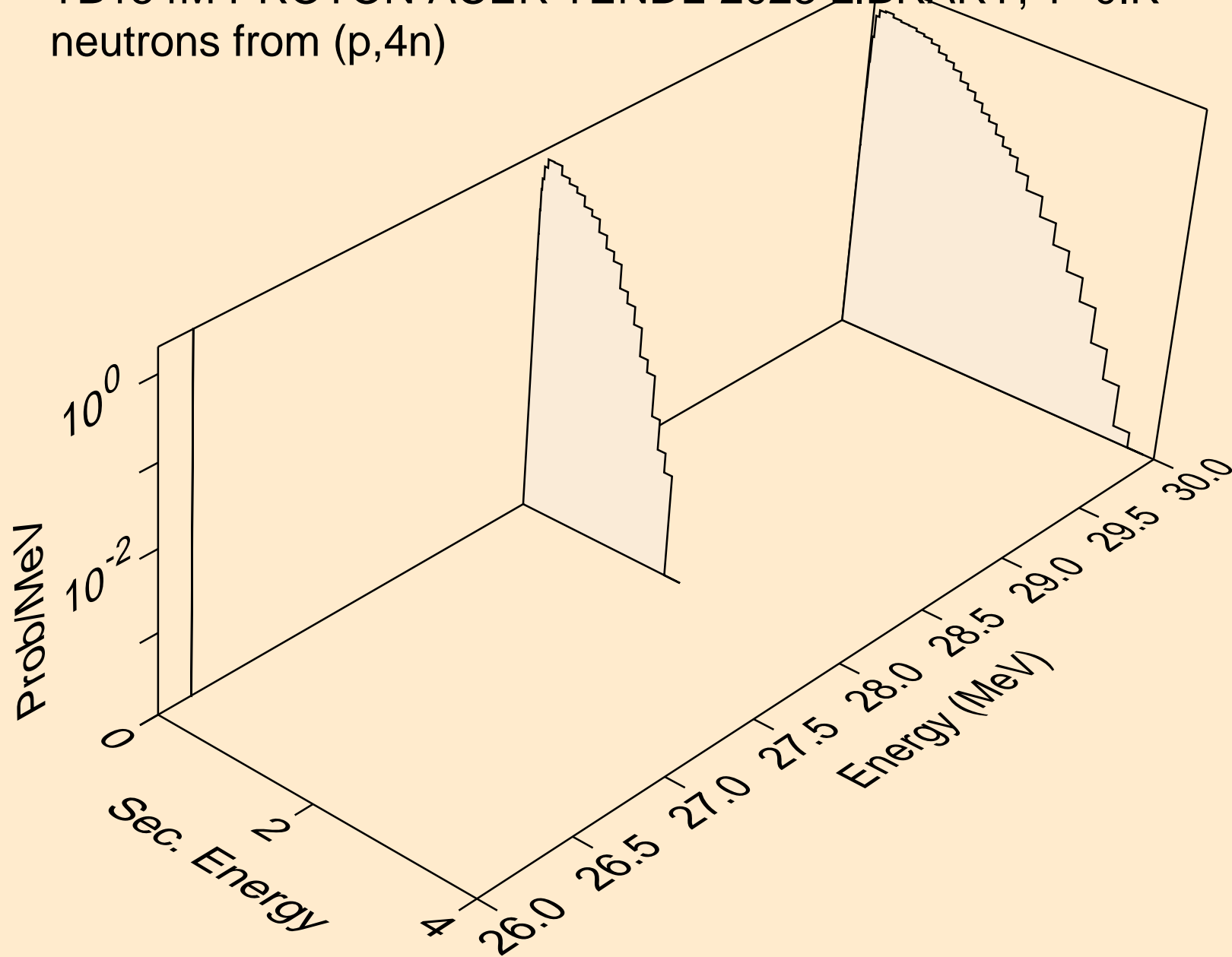
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



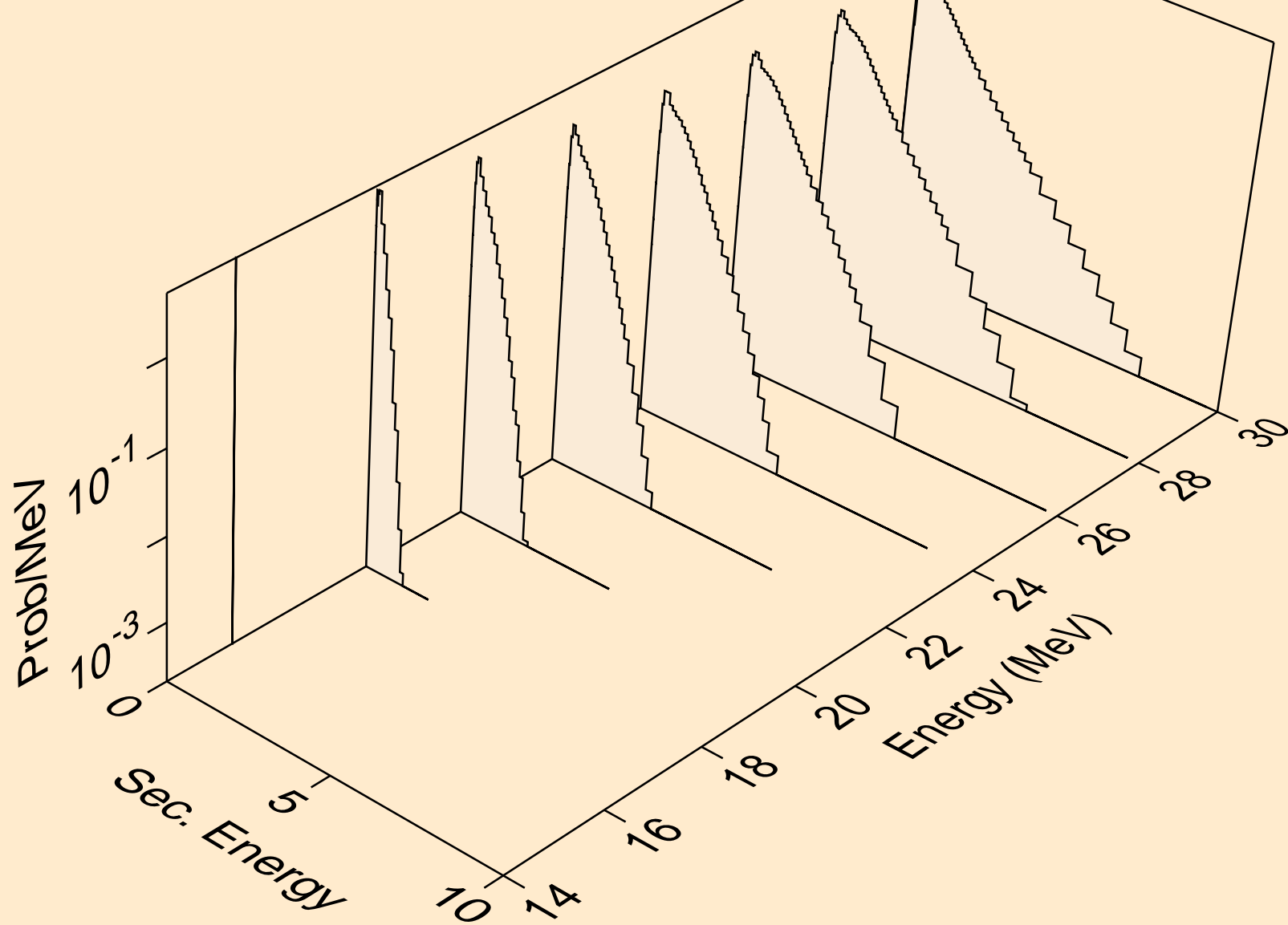
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neutrons from (p,n\*)he3



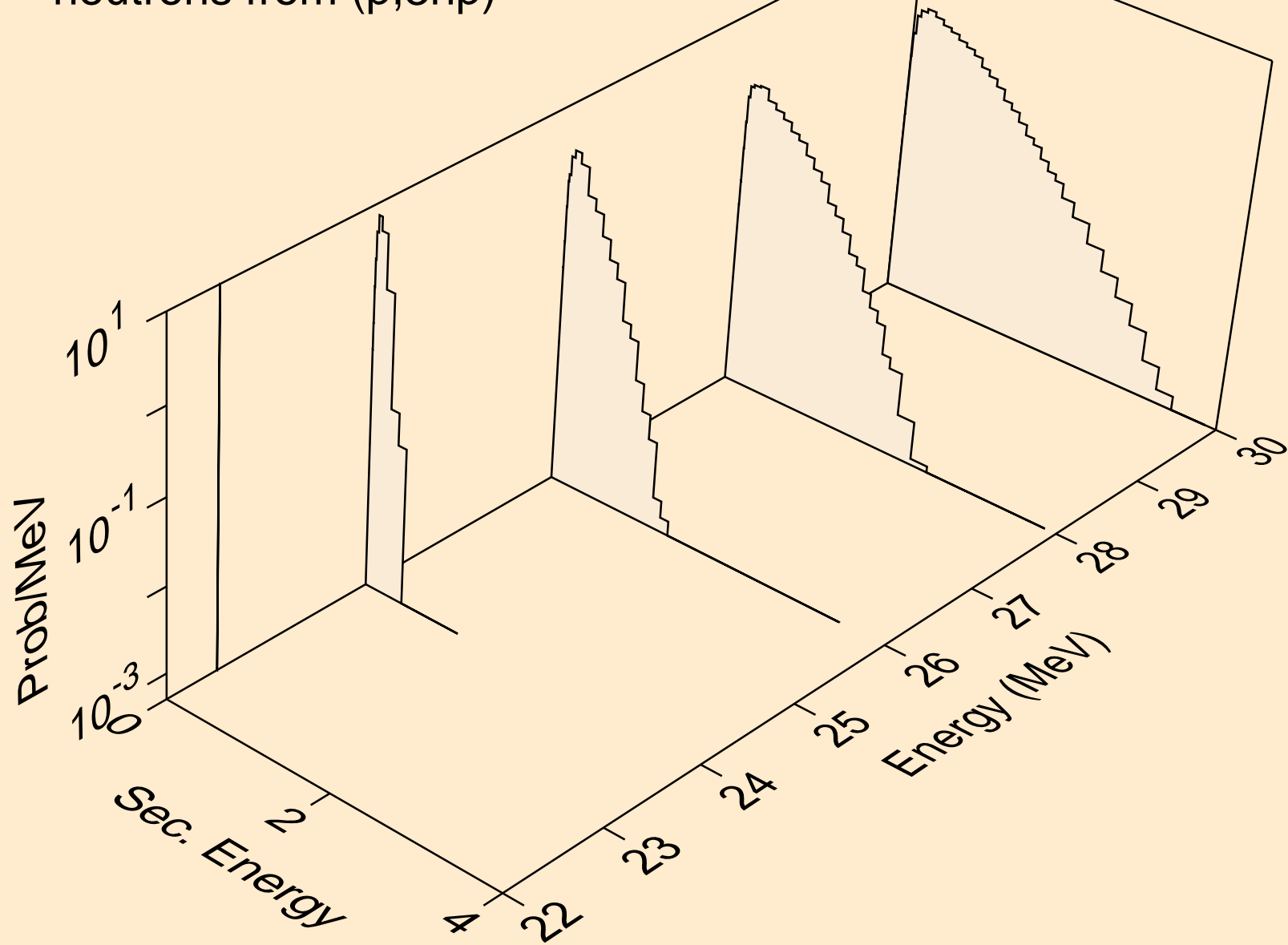
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neutrons from (p,4n)



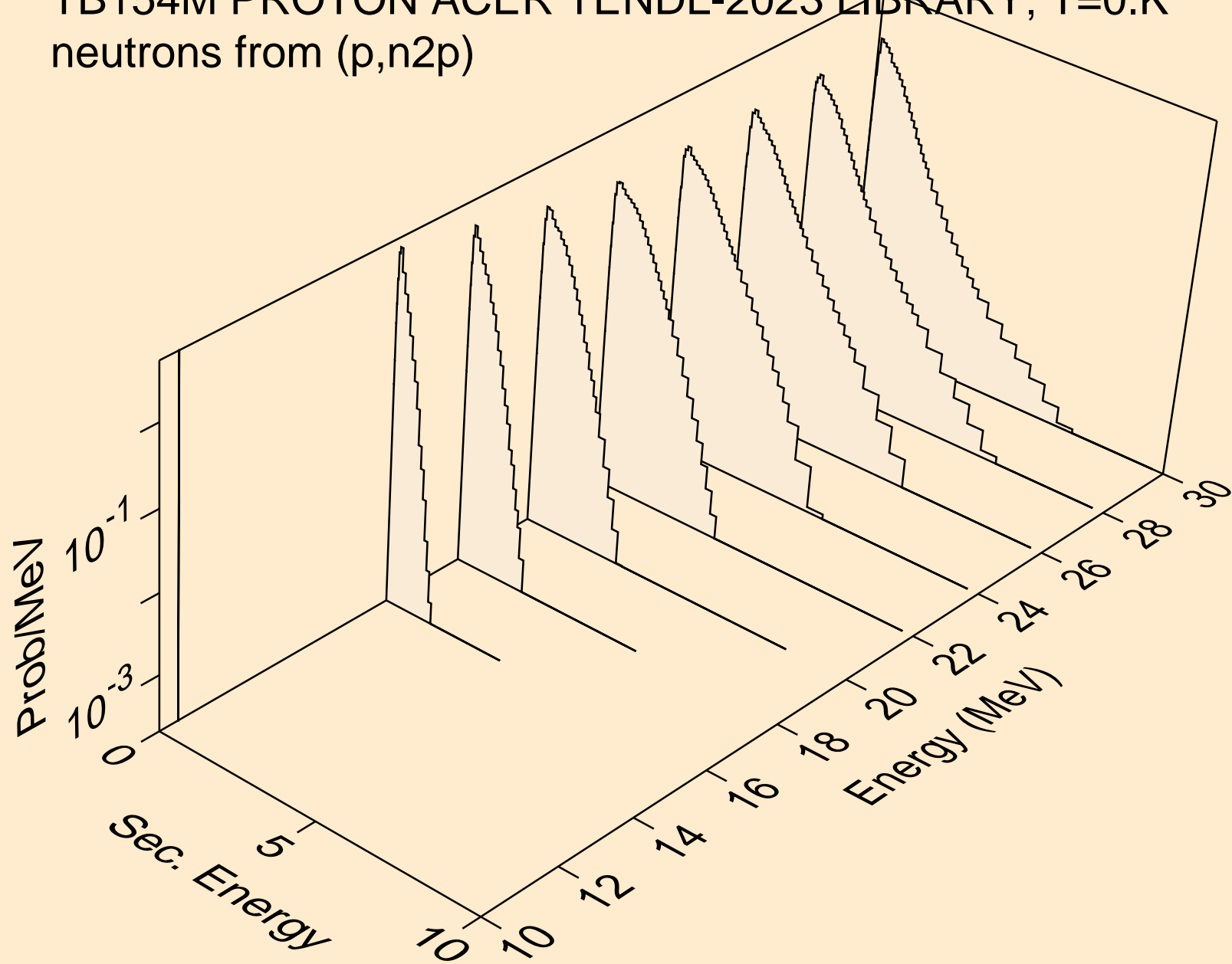
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)

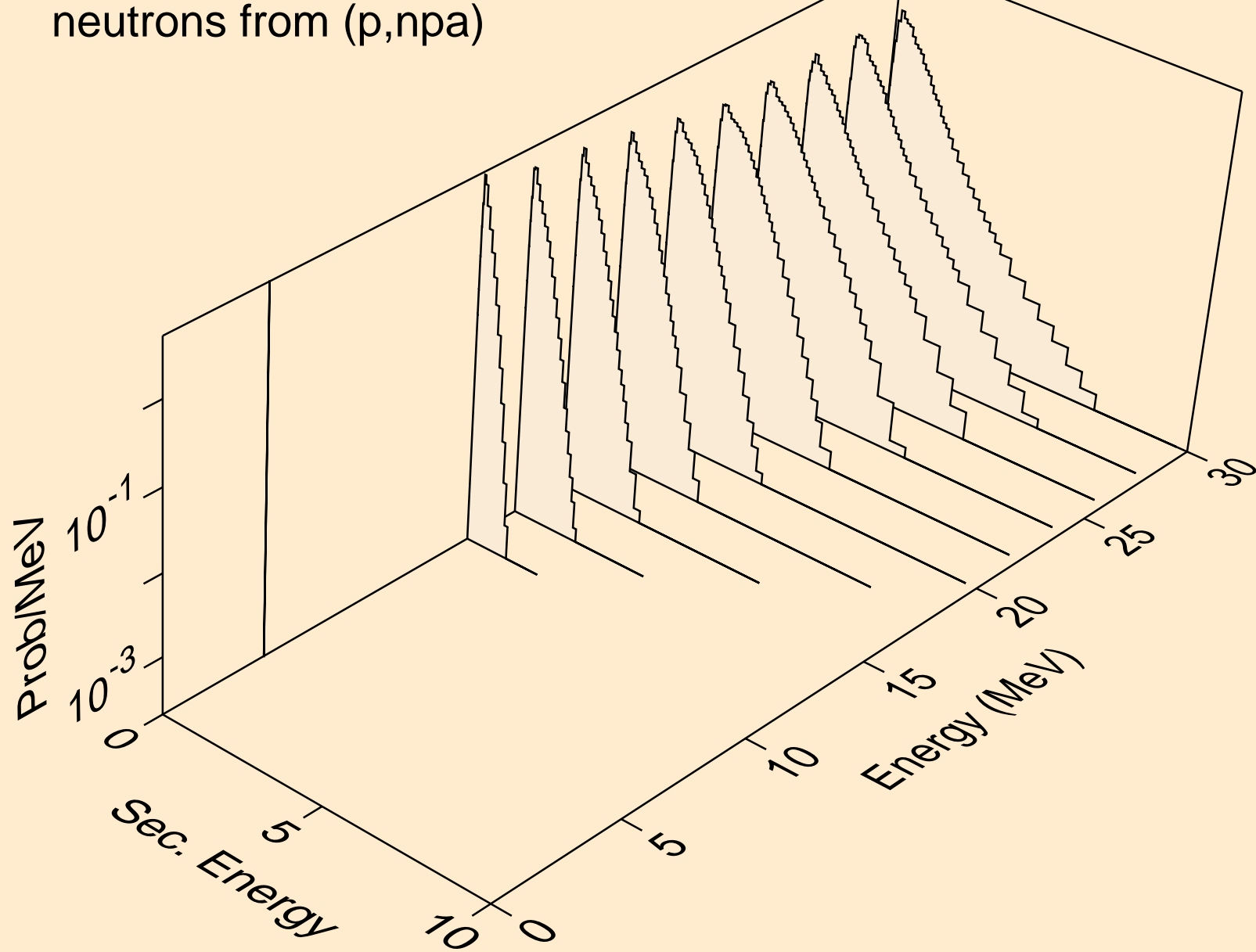


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neutrons from (p,n2p)

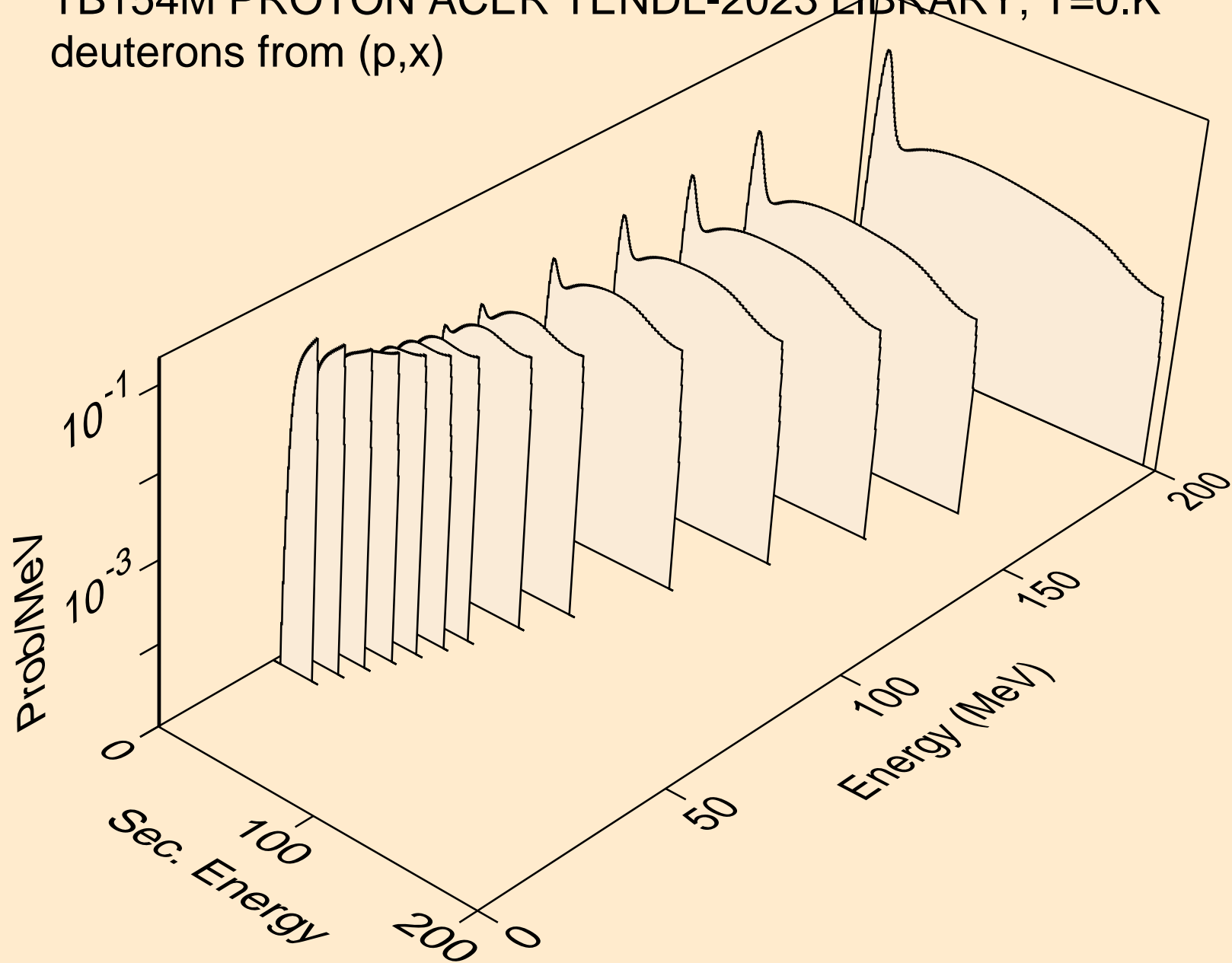




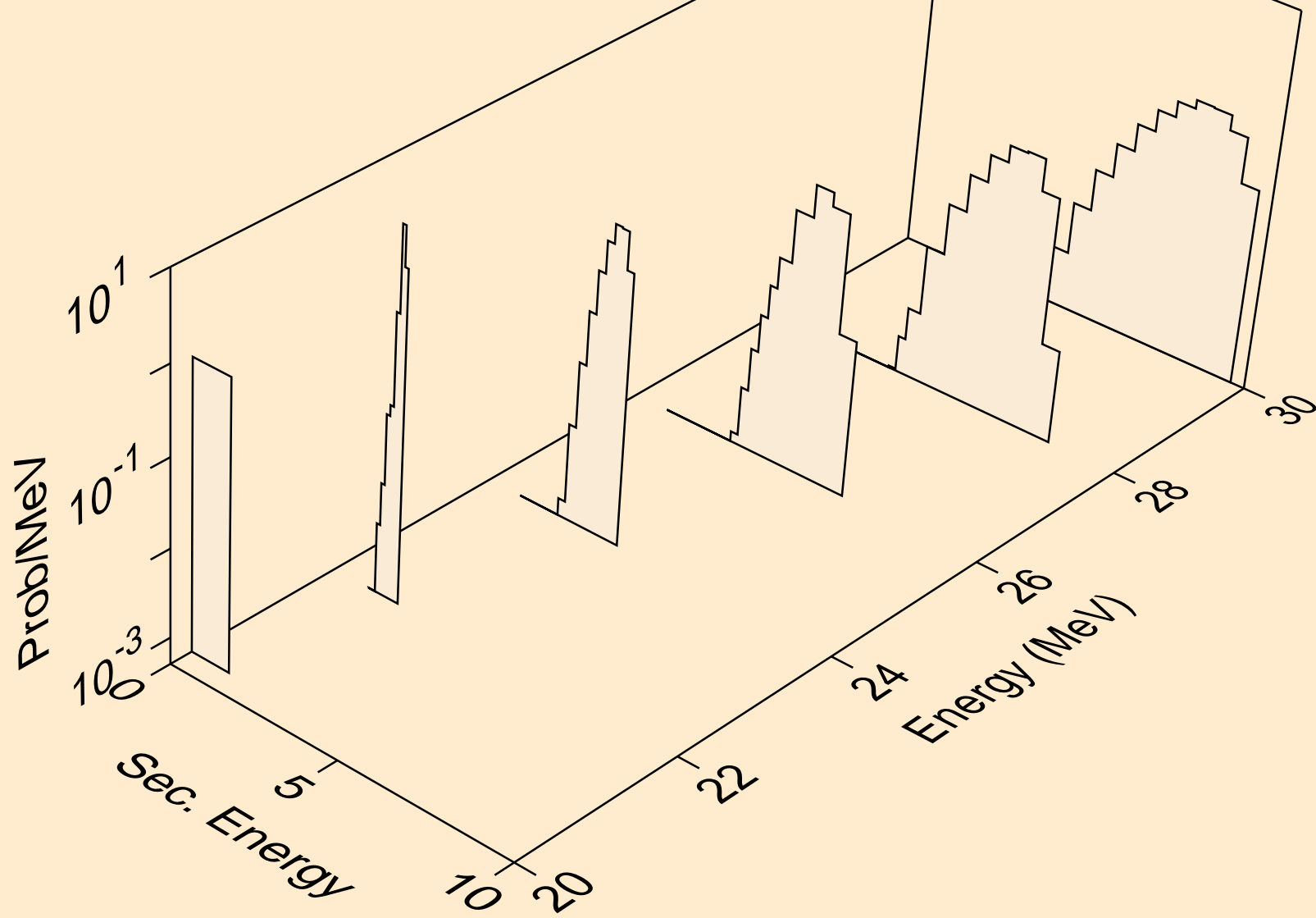
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neutrons from (p,npa)



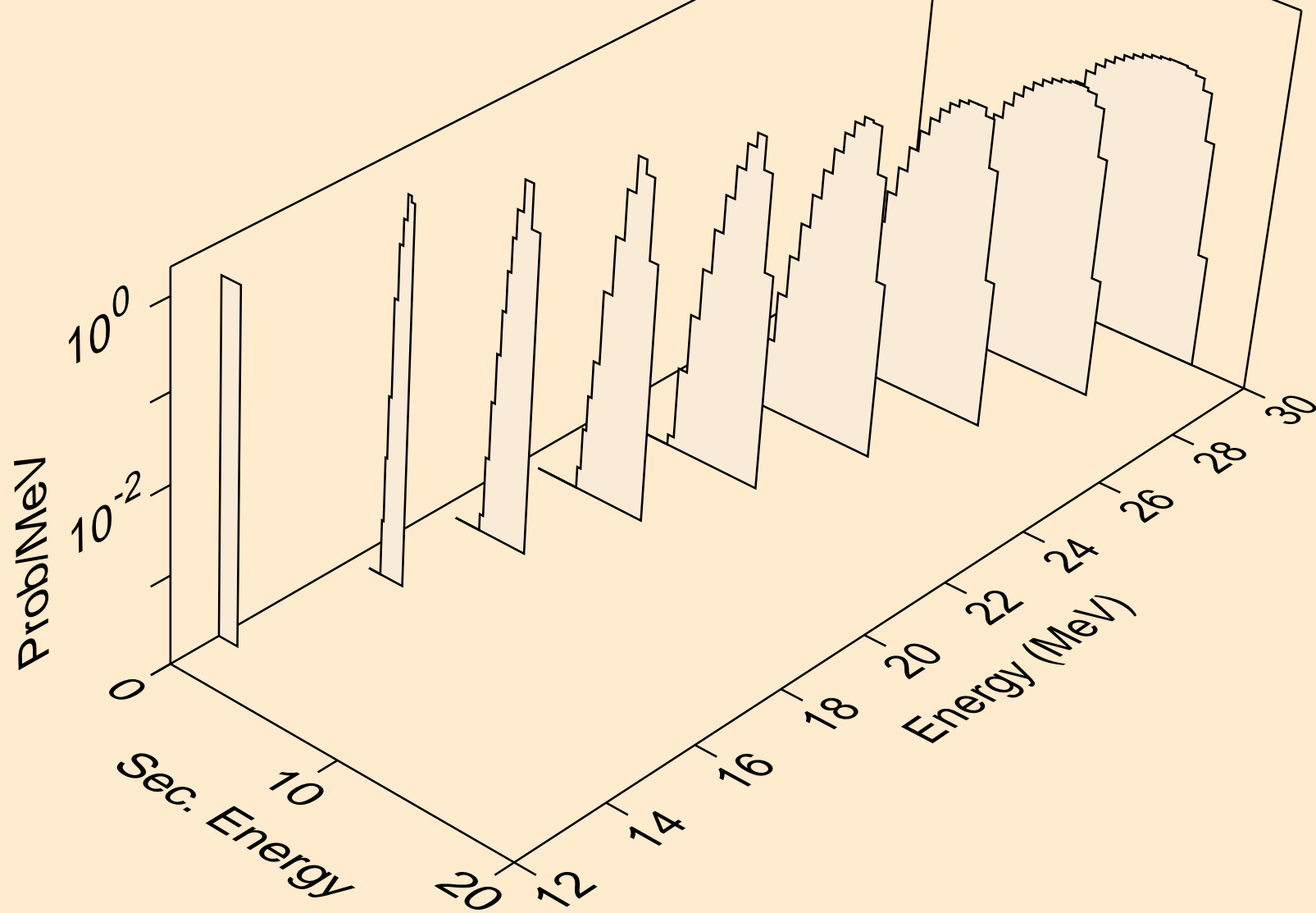
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deuterons from (p,x)



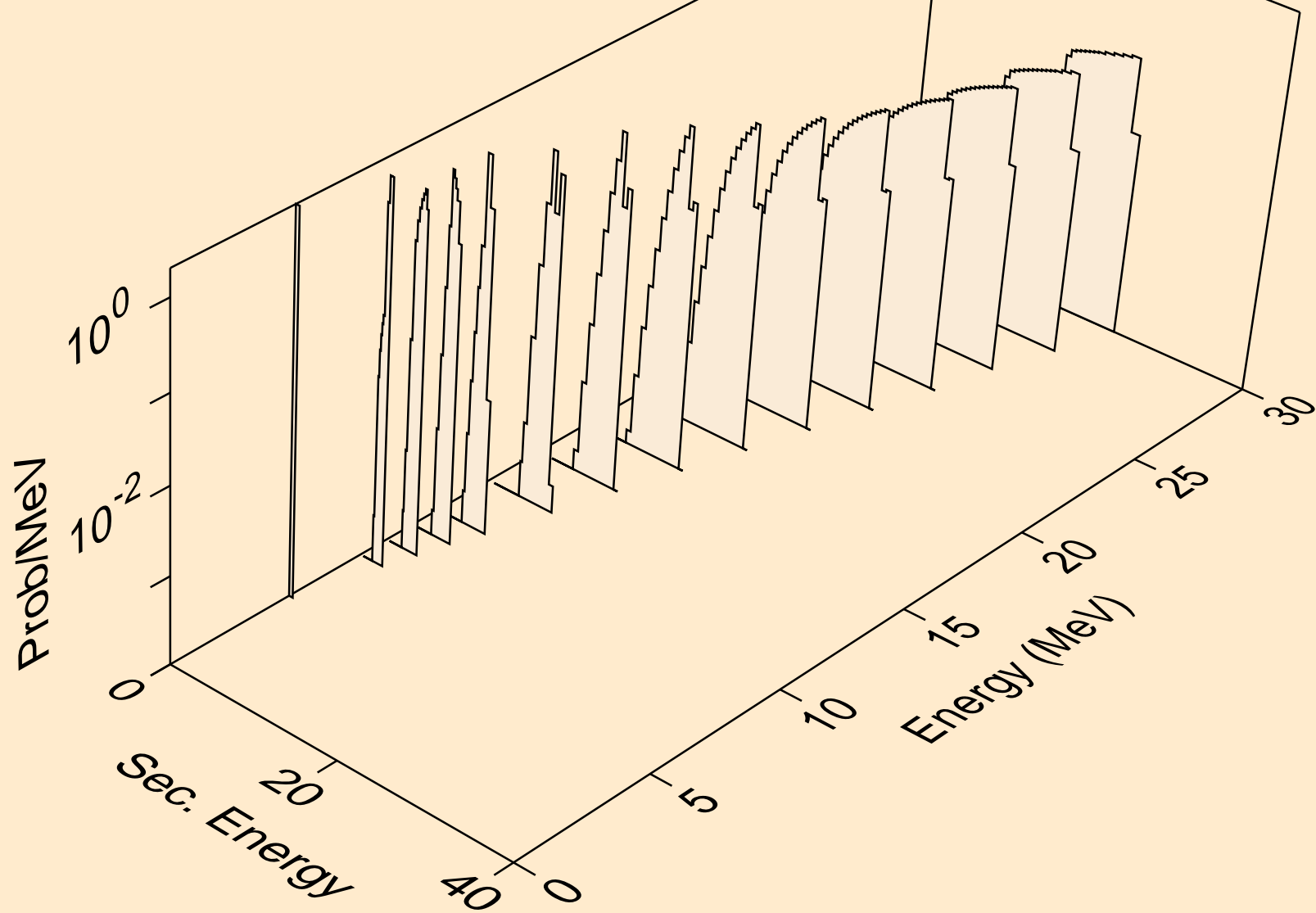
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deuterons from (p,2nd)



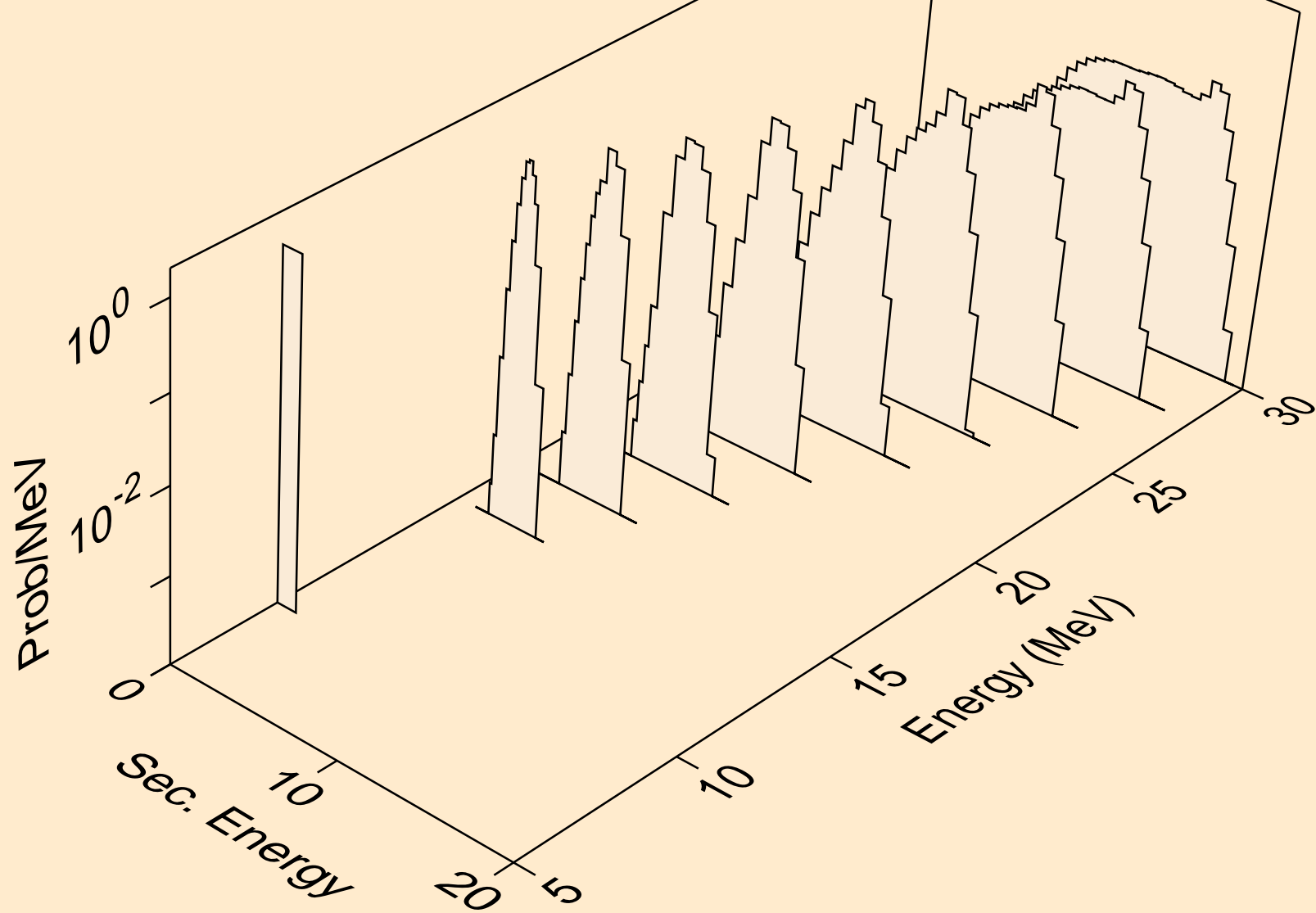
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deuterons from (p,n\*)d



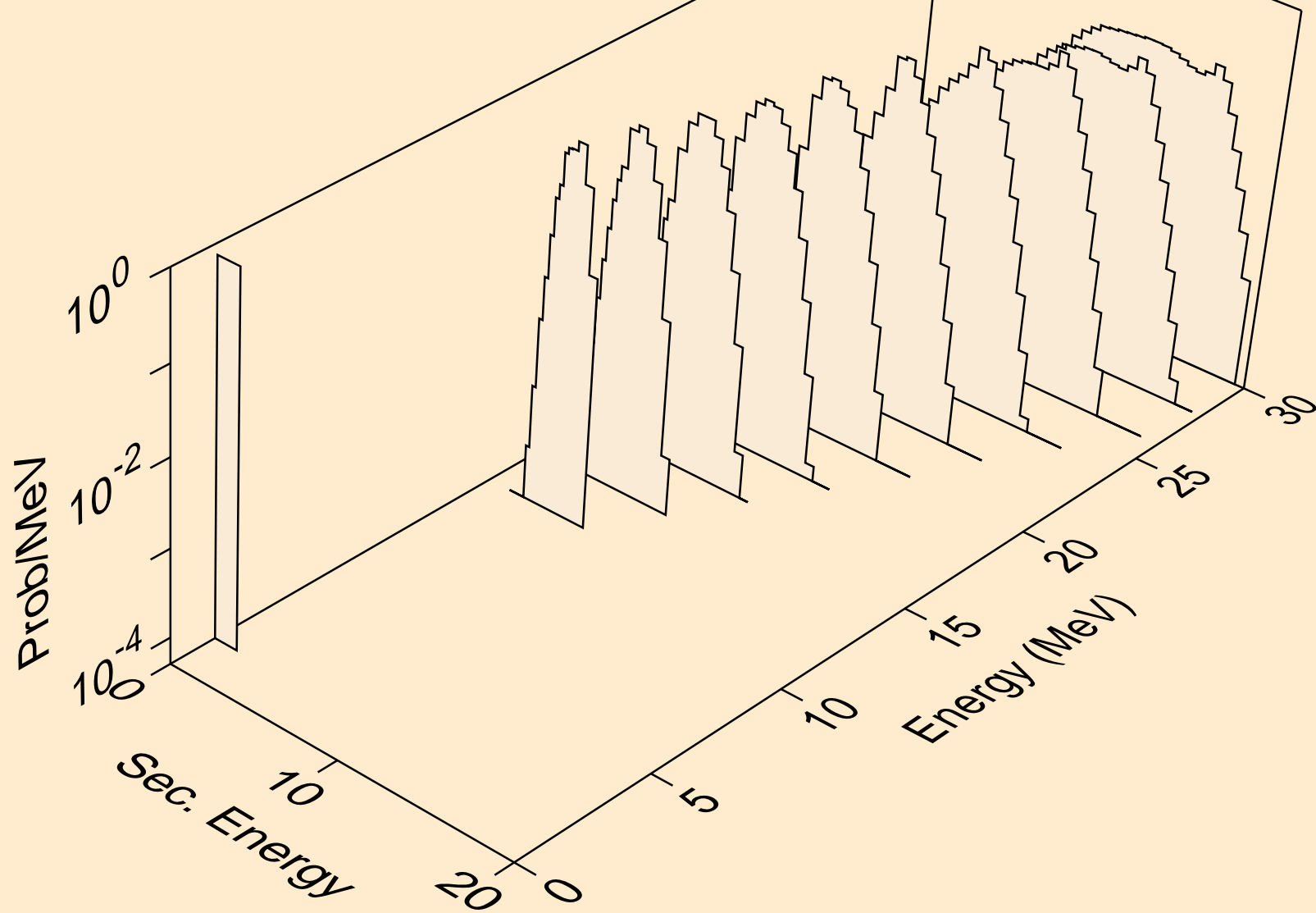
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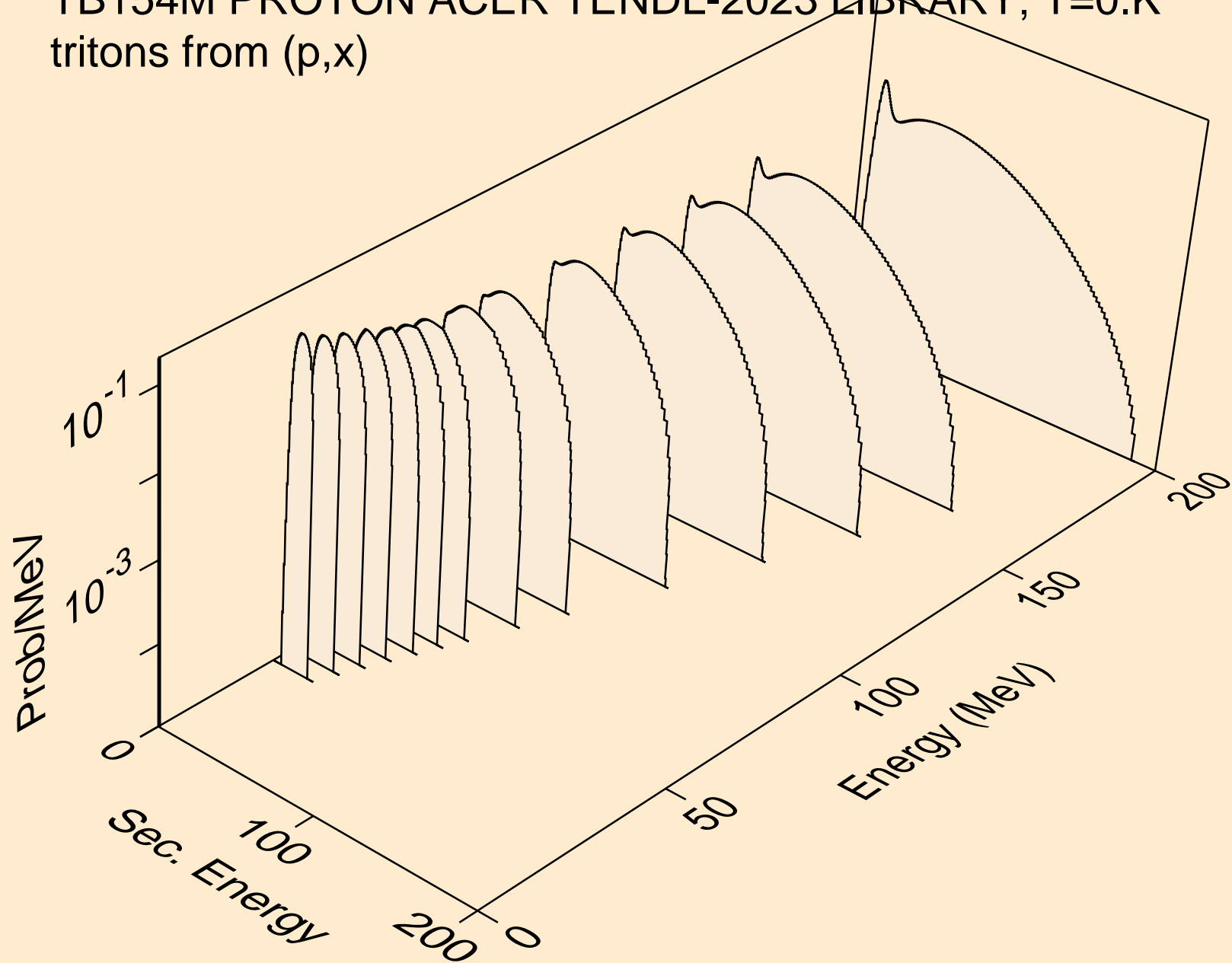
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deuterons from (p,pd)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

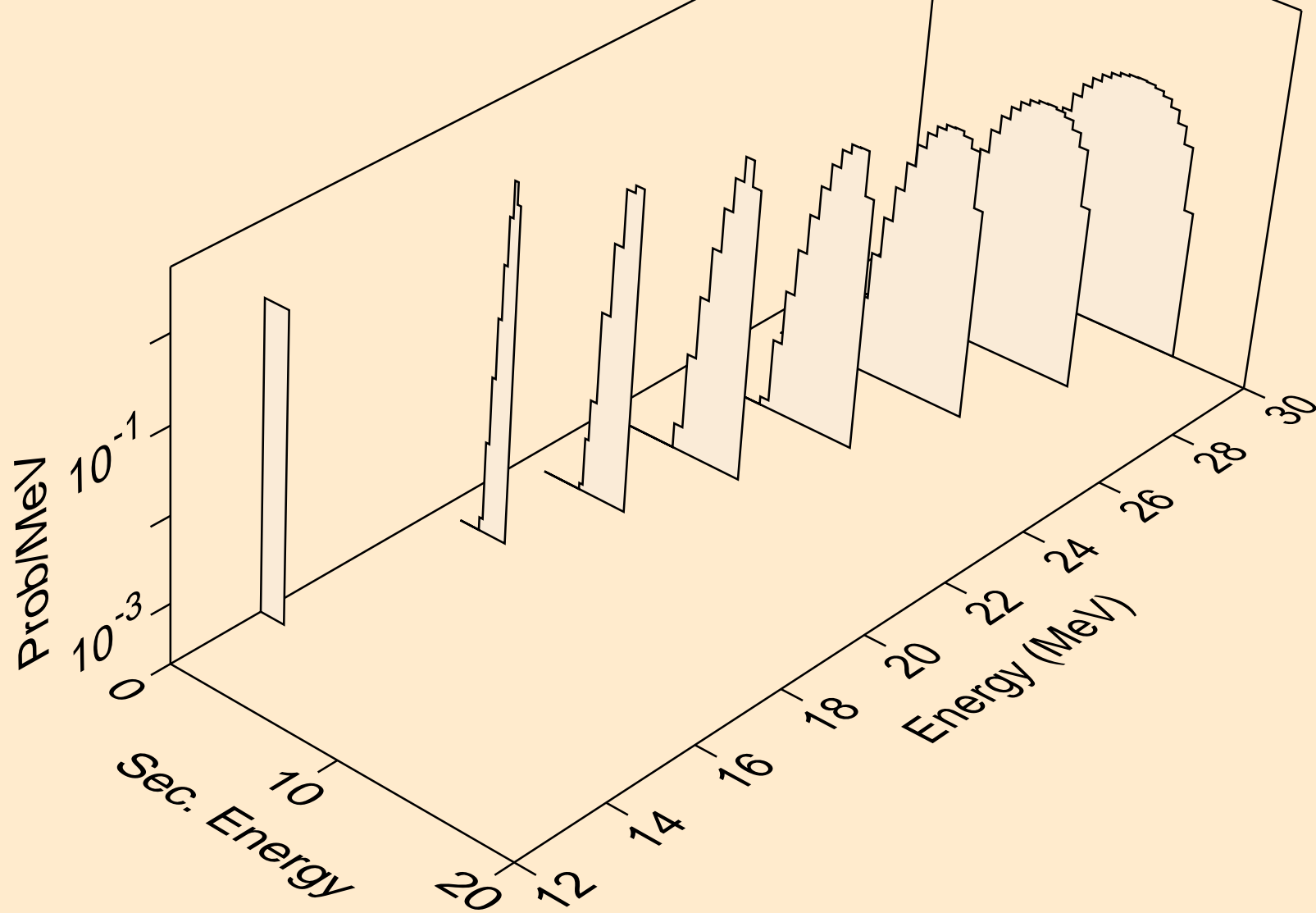


TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

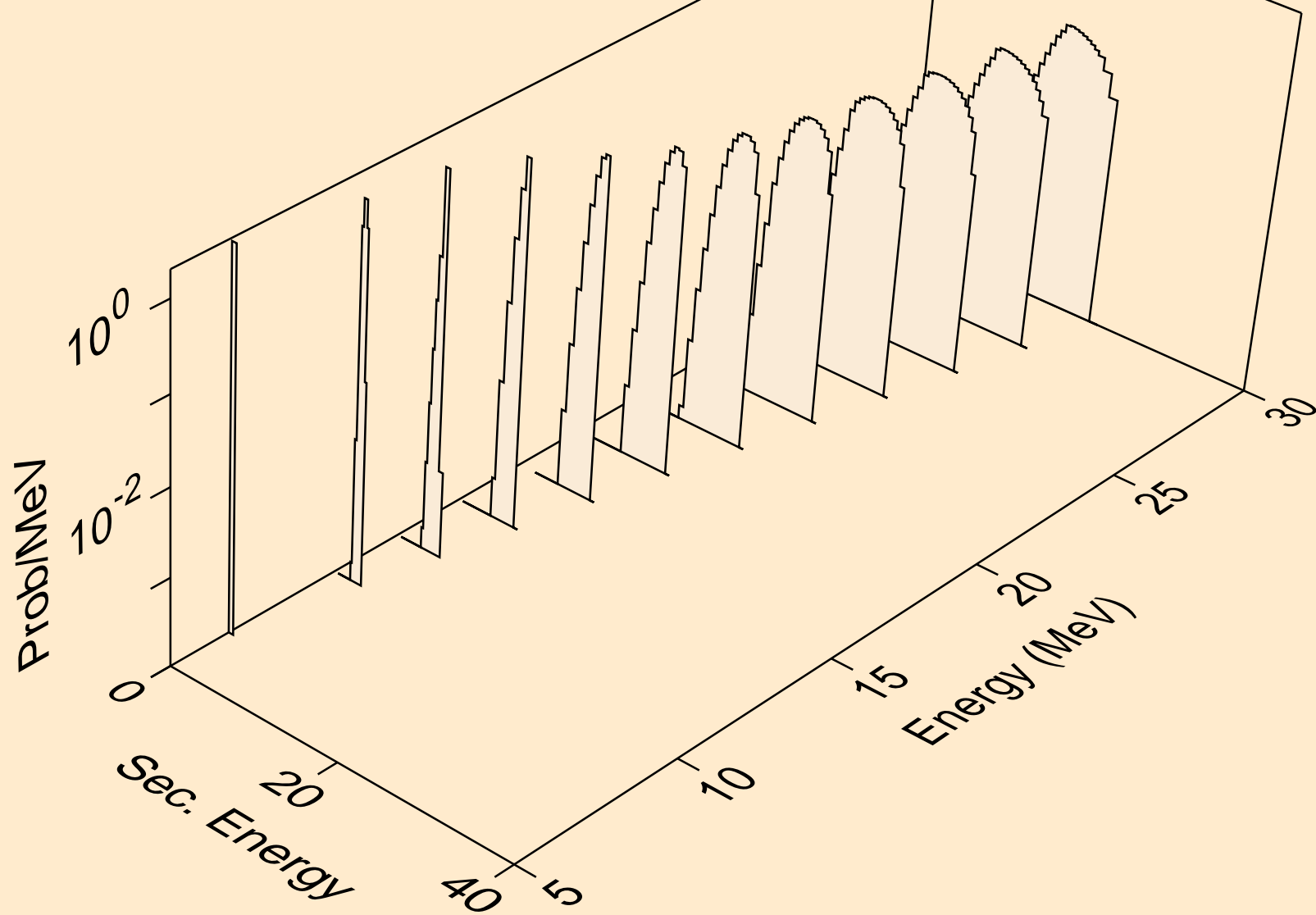




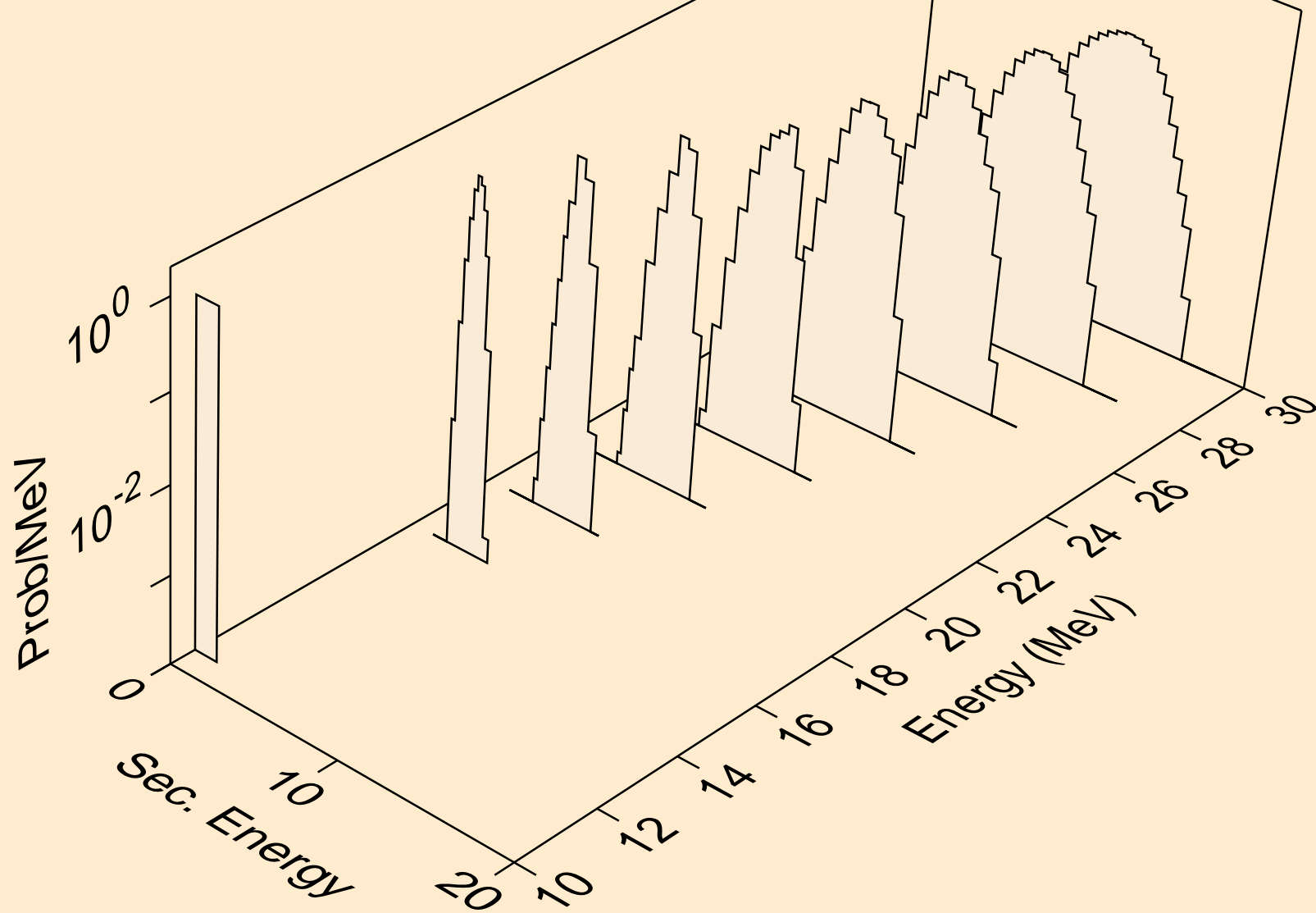
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



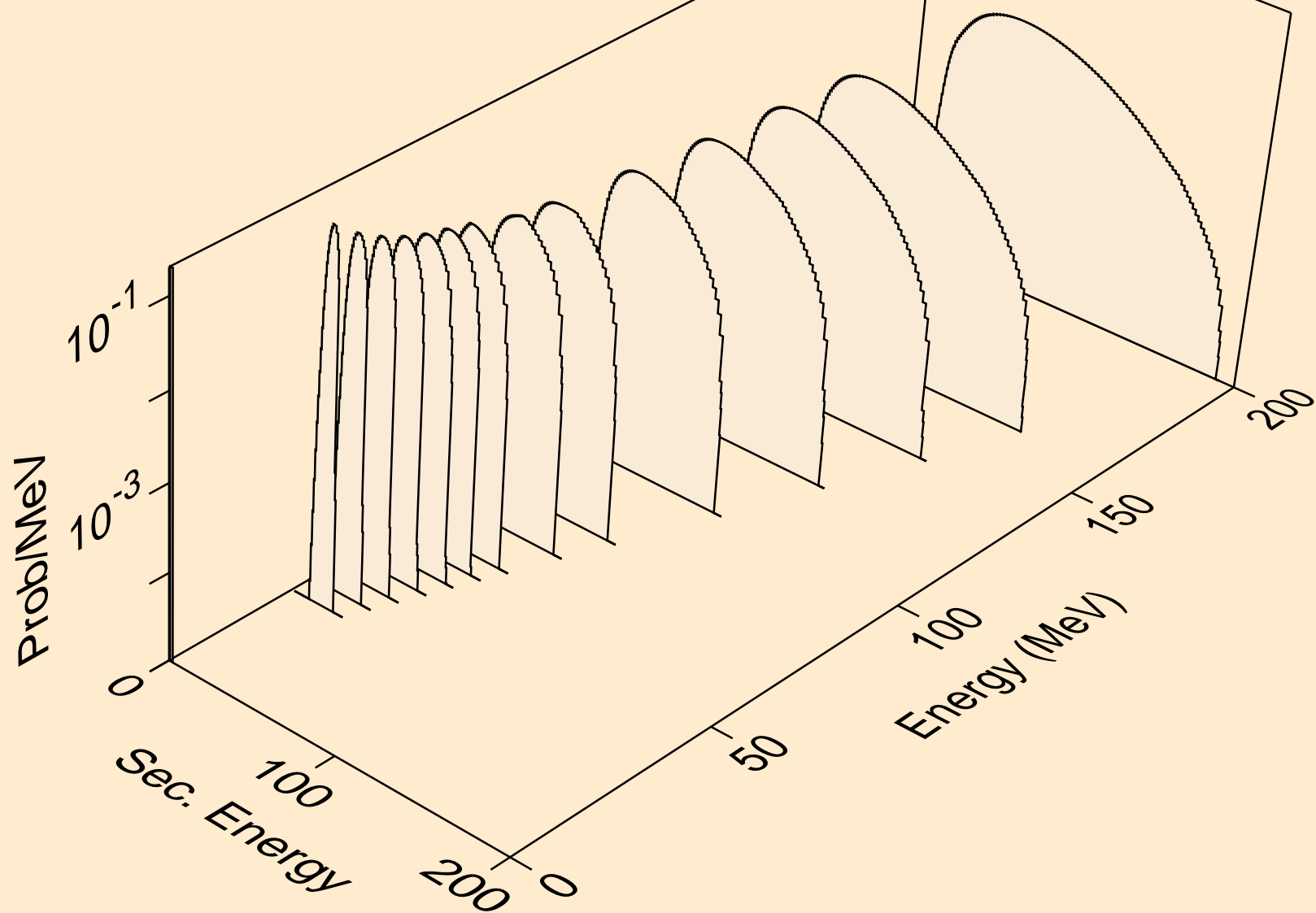
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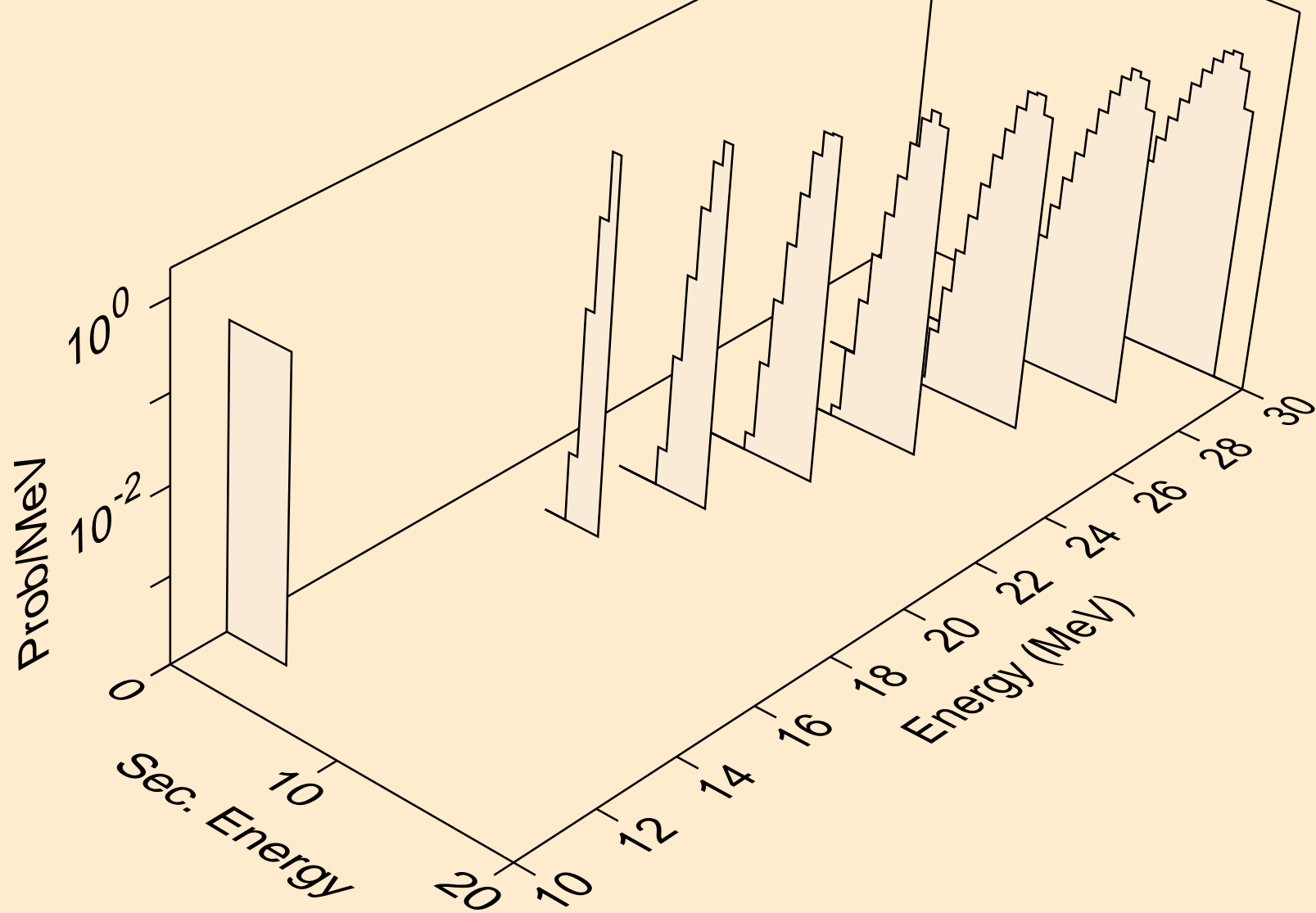
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tritons from (p,pt)



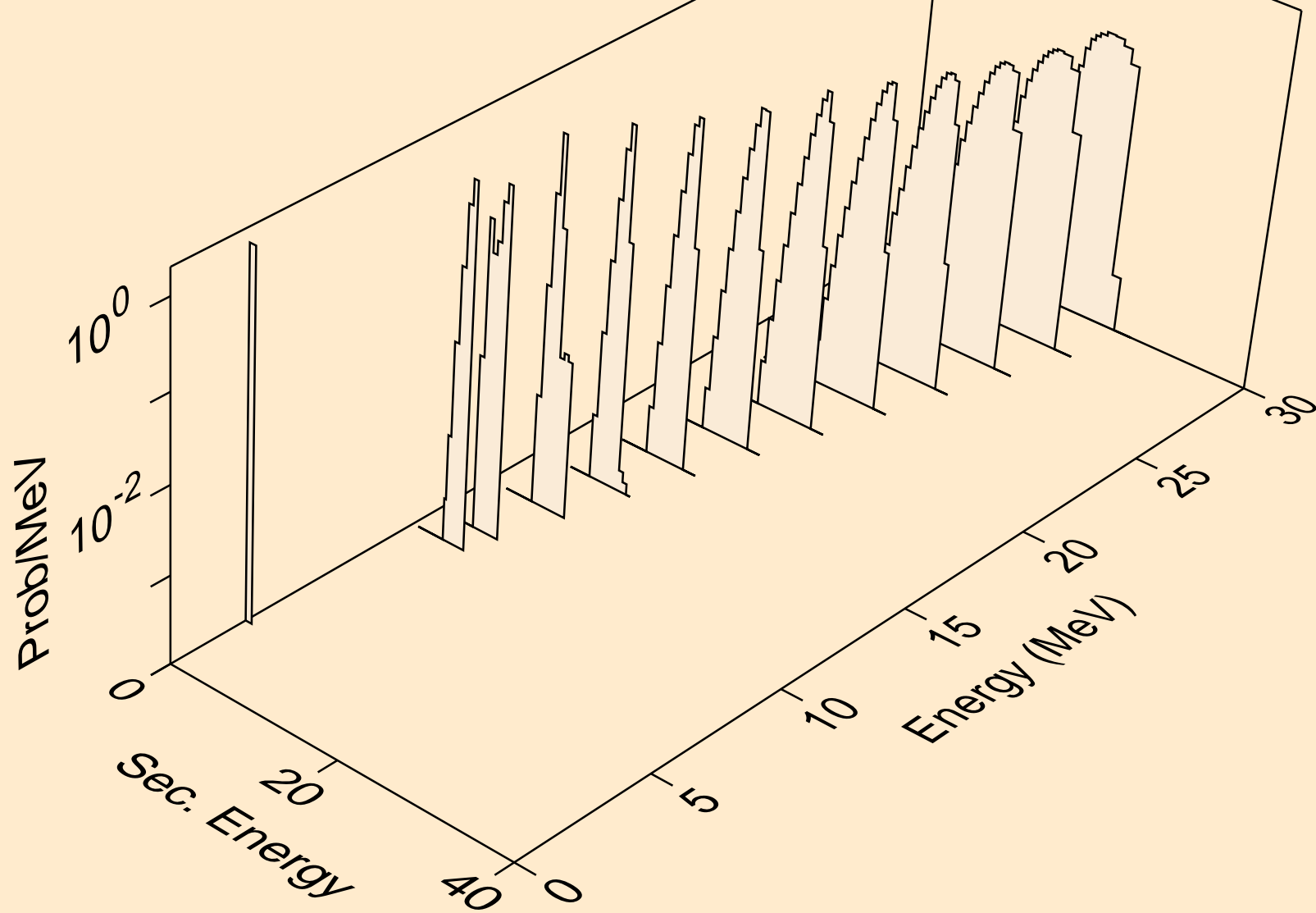
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he3s from (p,x)



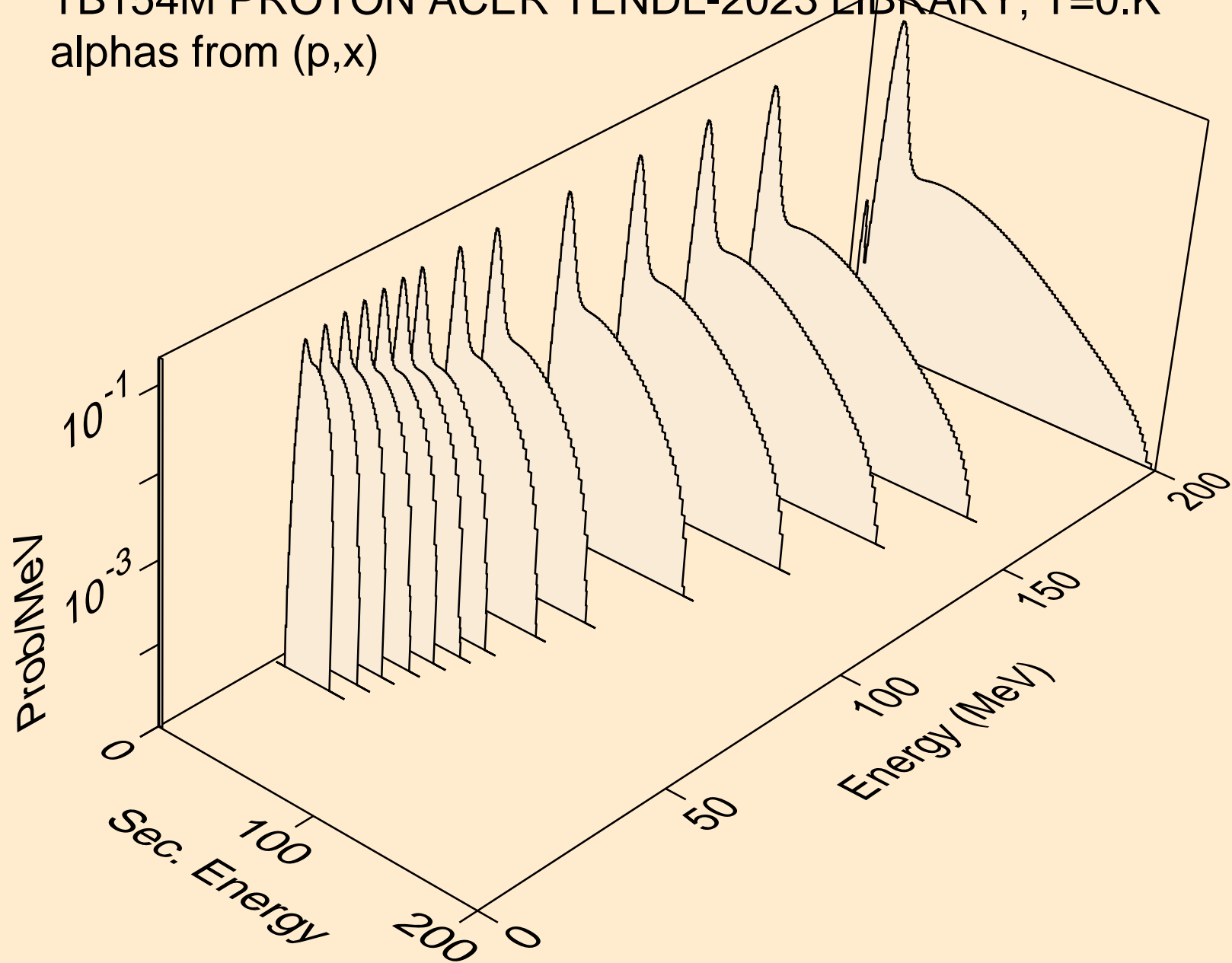
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he3s from (p,n\*)he3



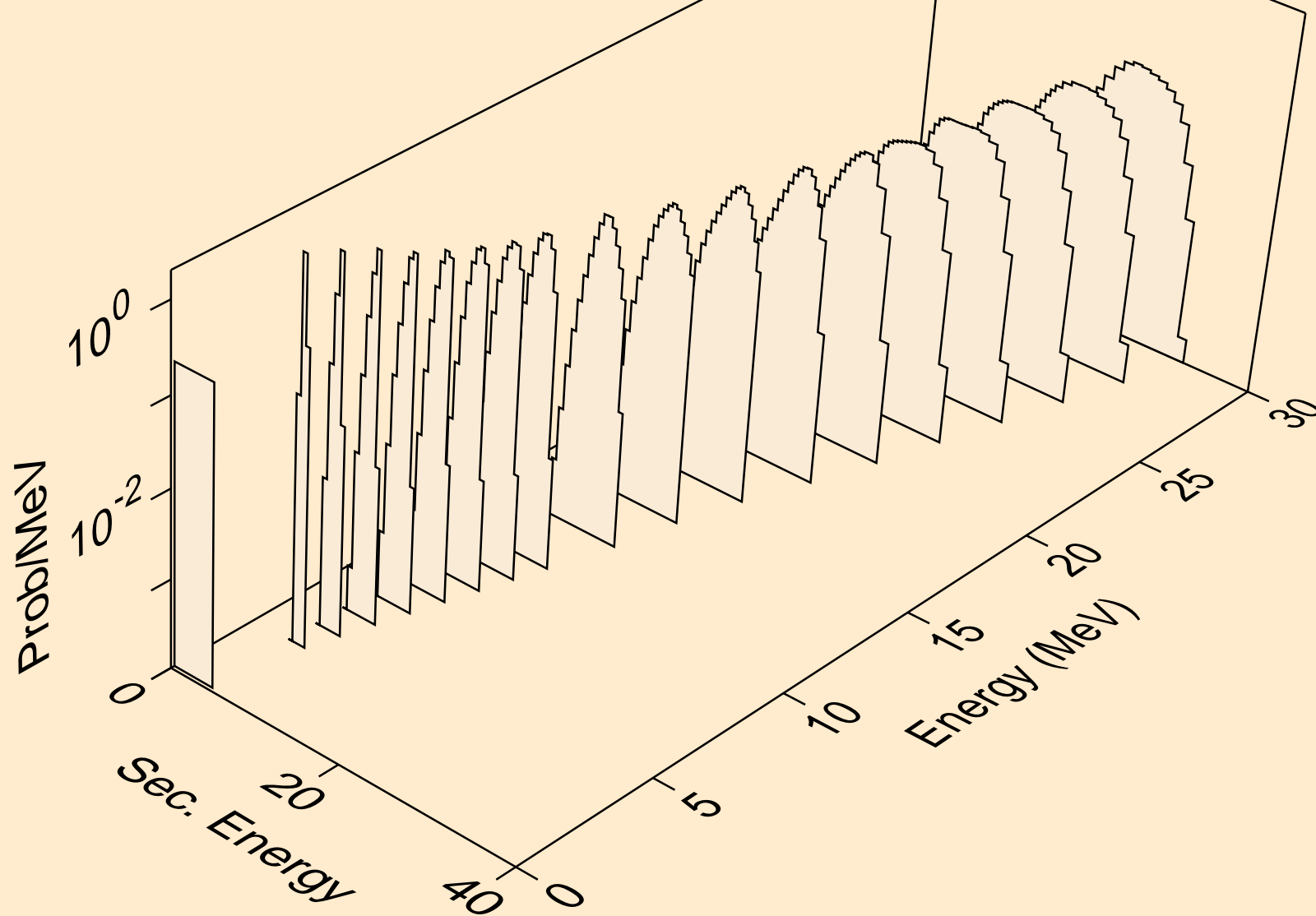
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

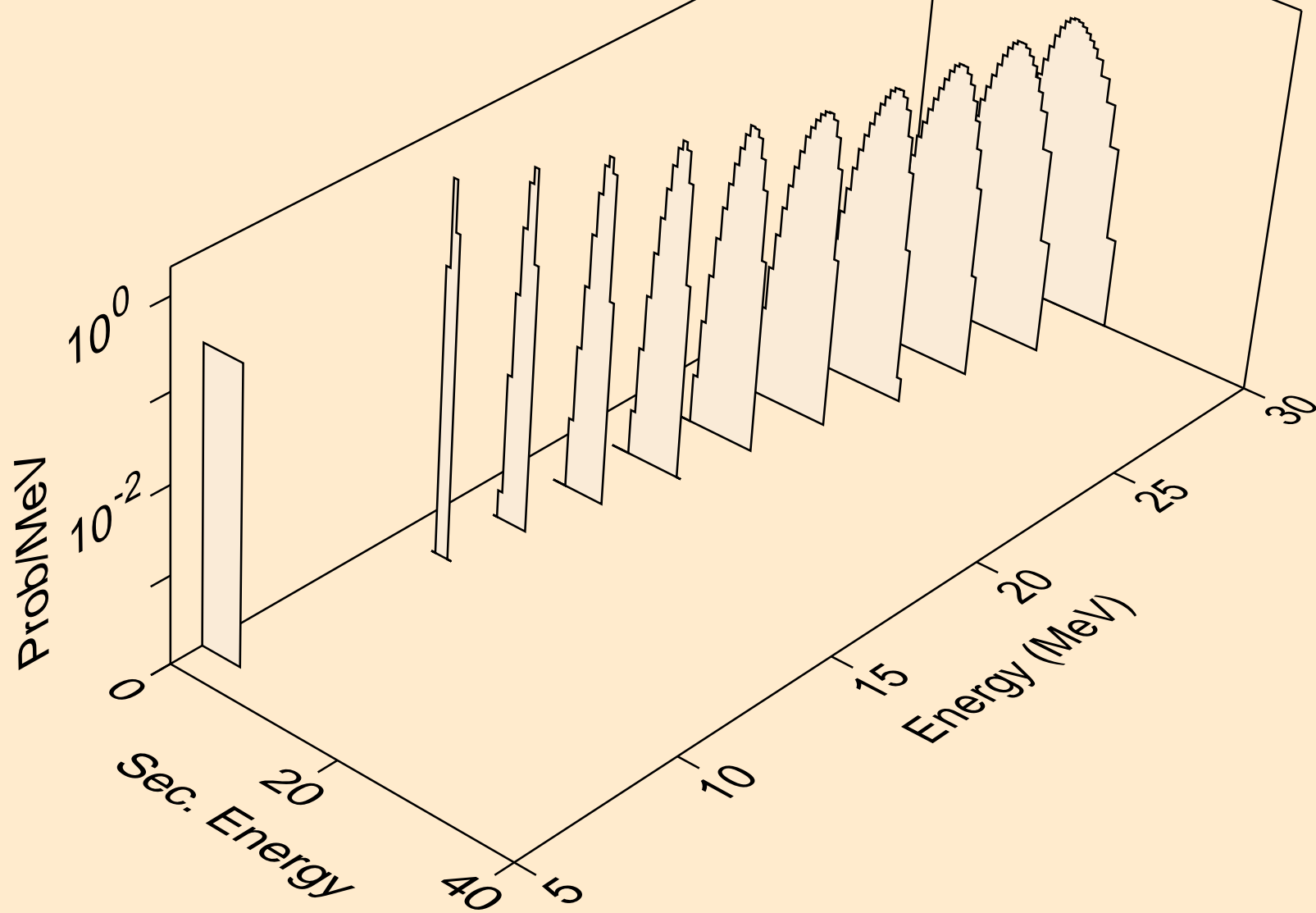


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alphas from (p,n\*)a

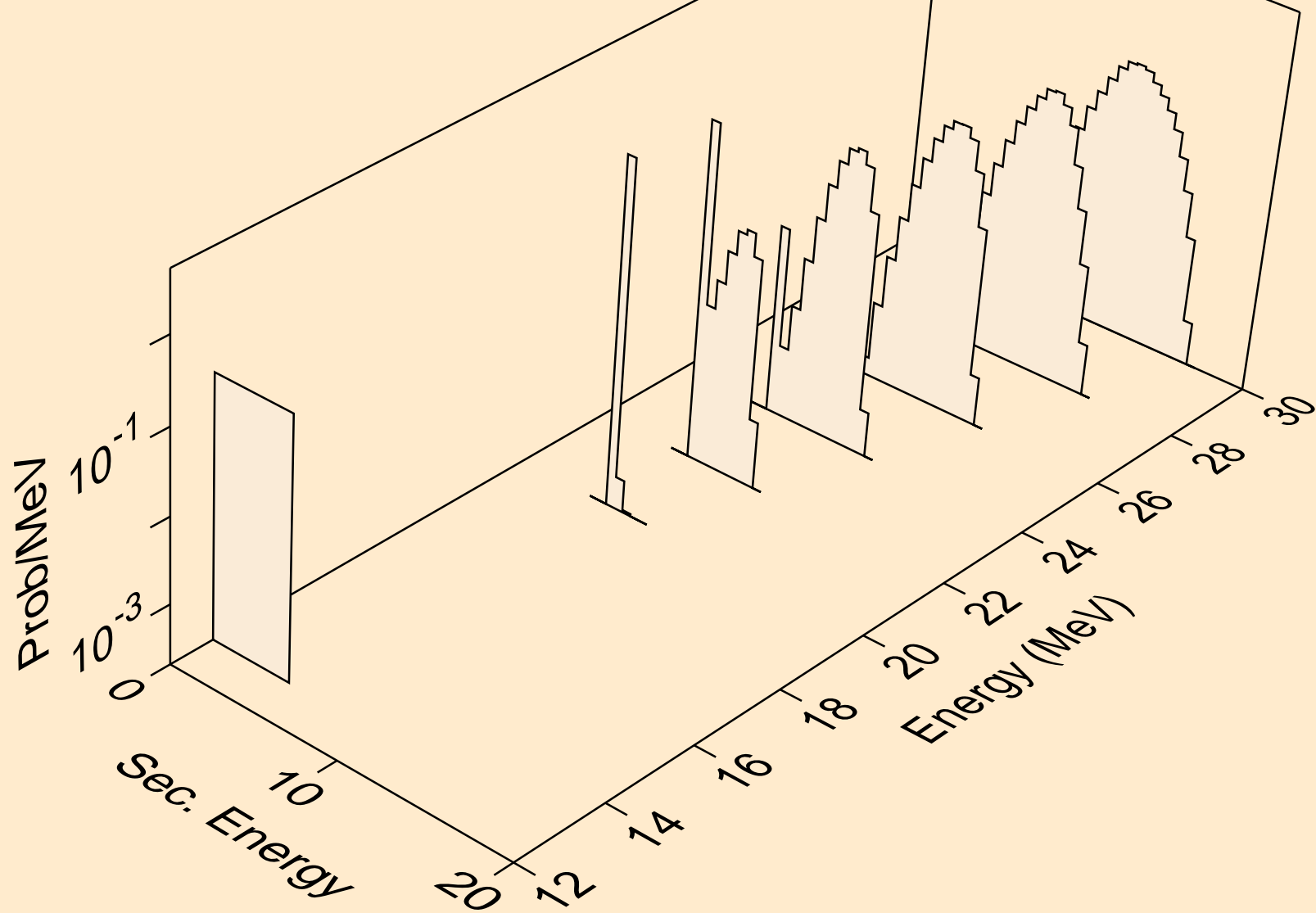




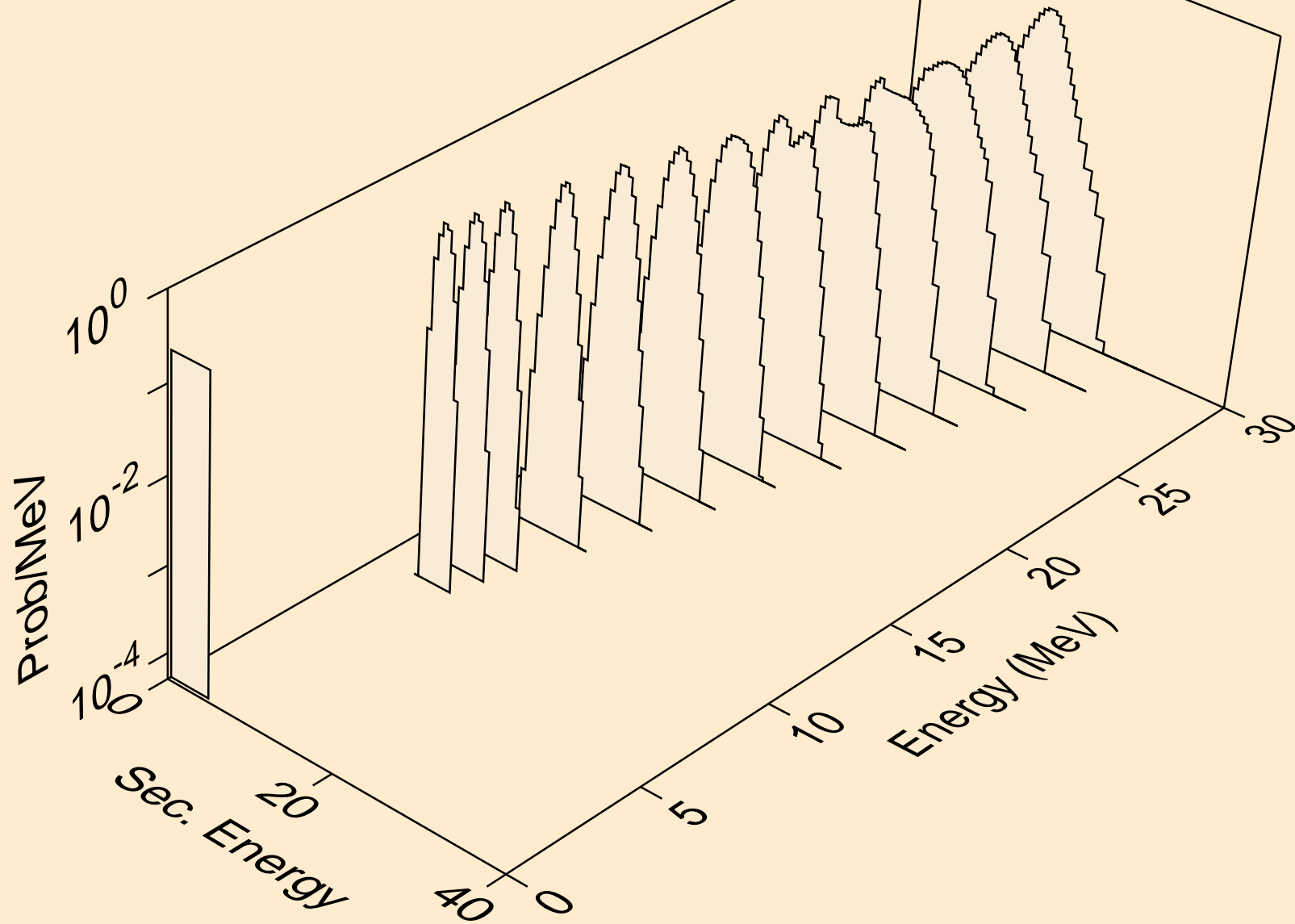
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alphas from (p,2n)a



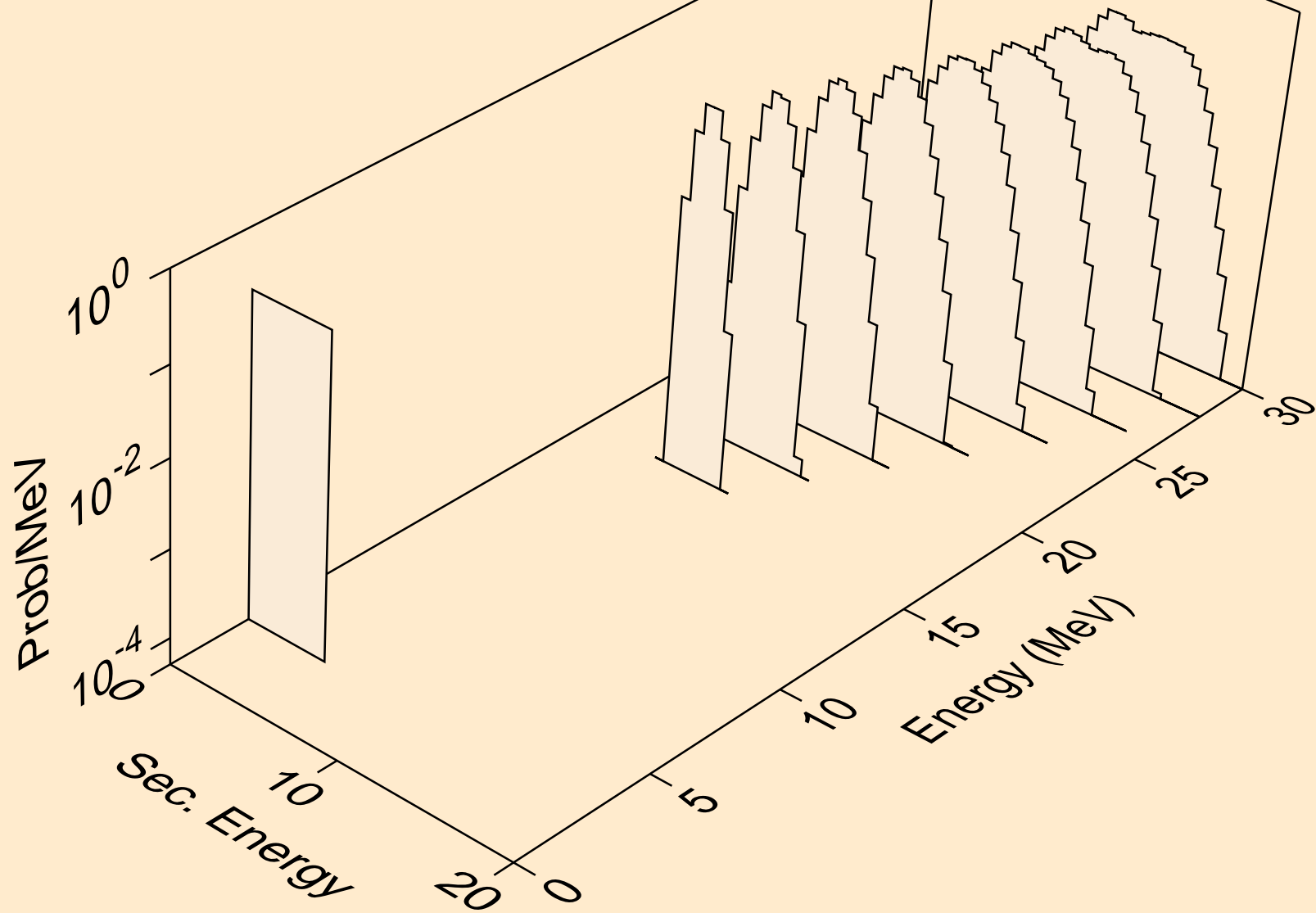
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alphas from (p,3n)a



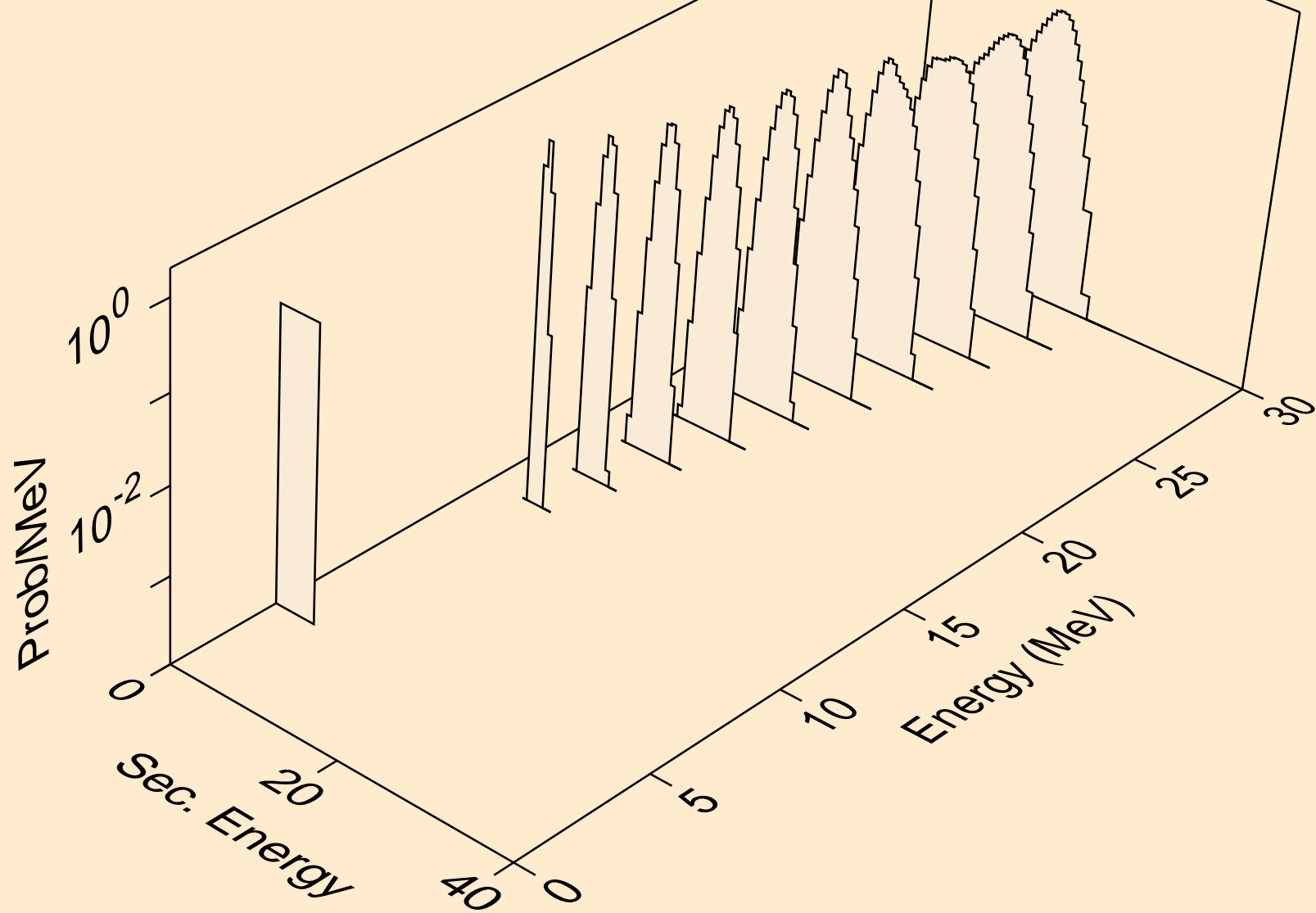
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alphas from (p,n\*)2a



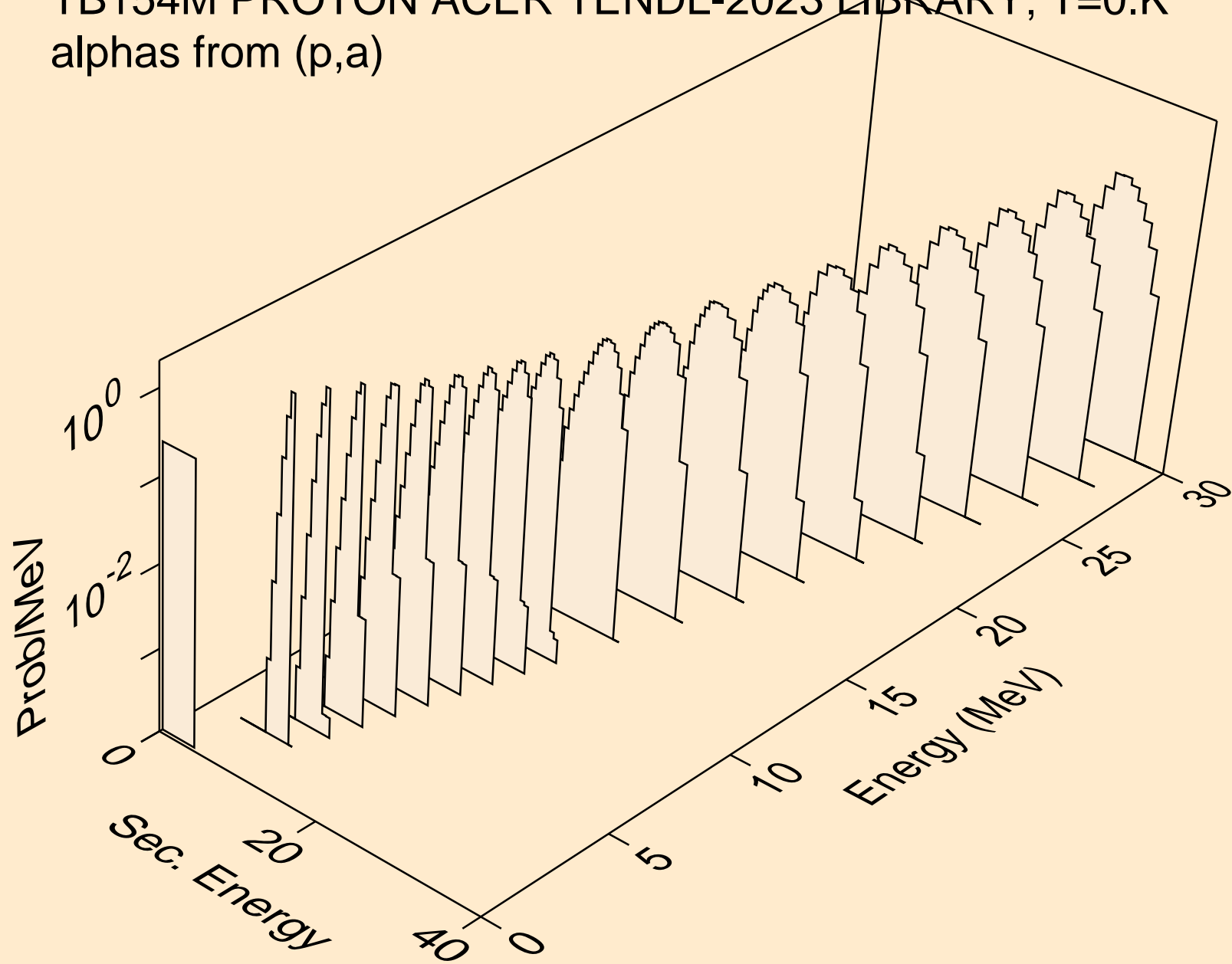
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alphas from (p,2n)2a



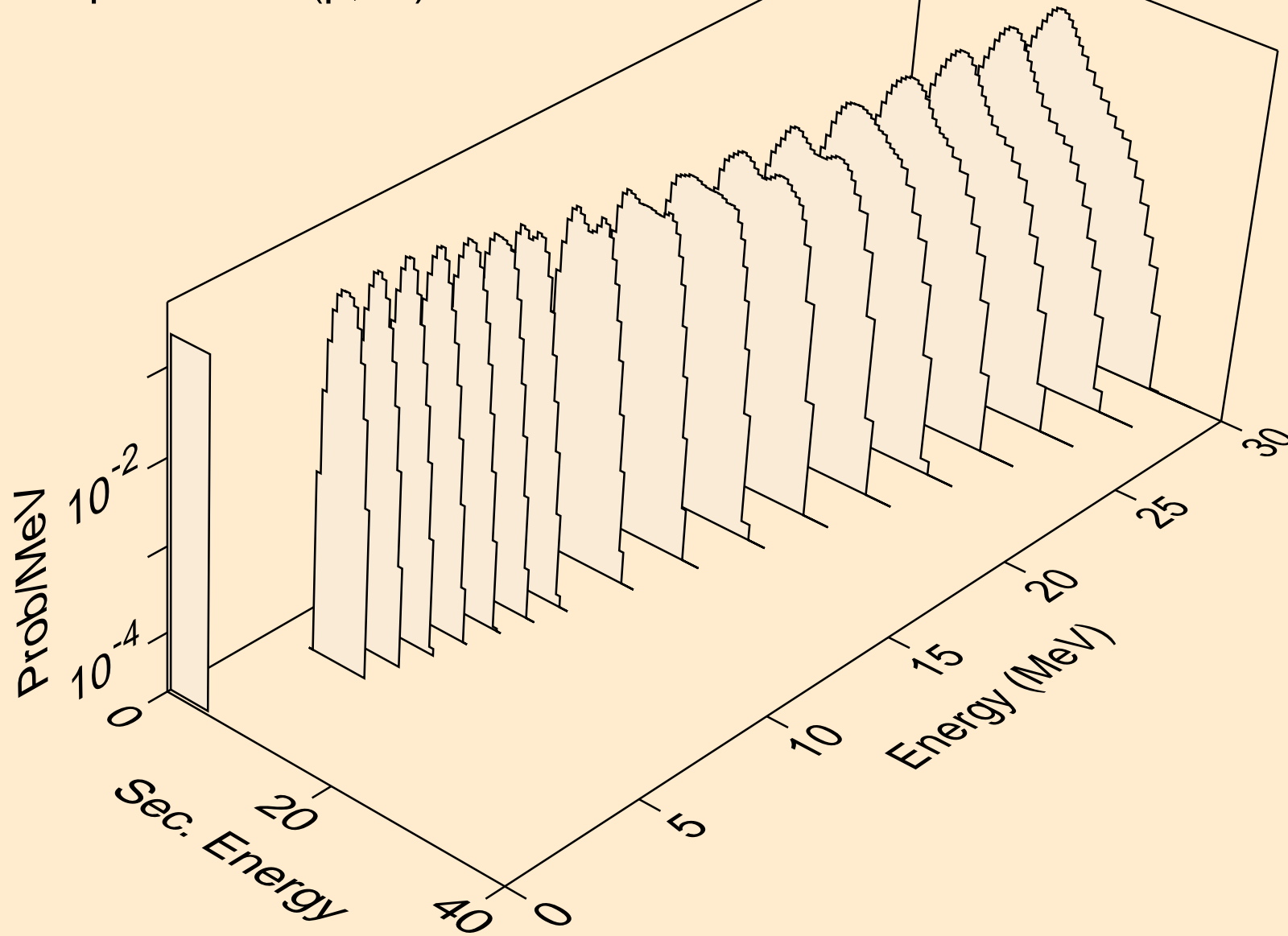
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alphas from (p,npa)



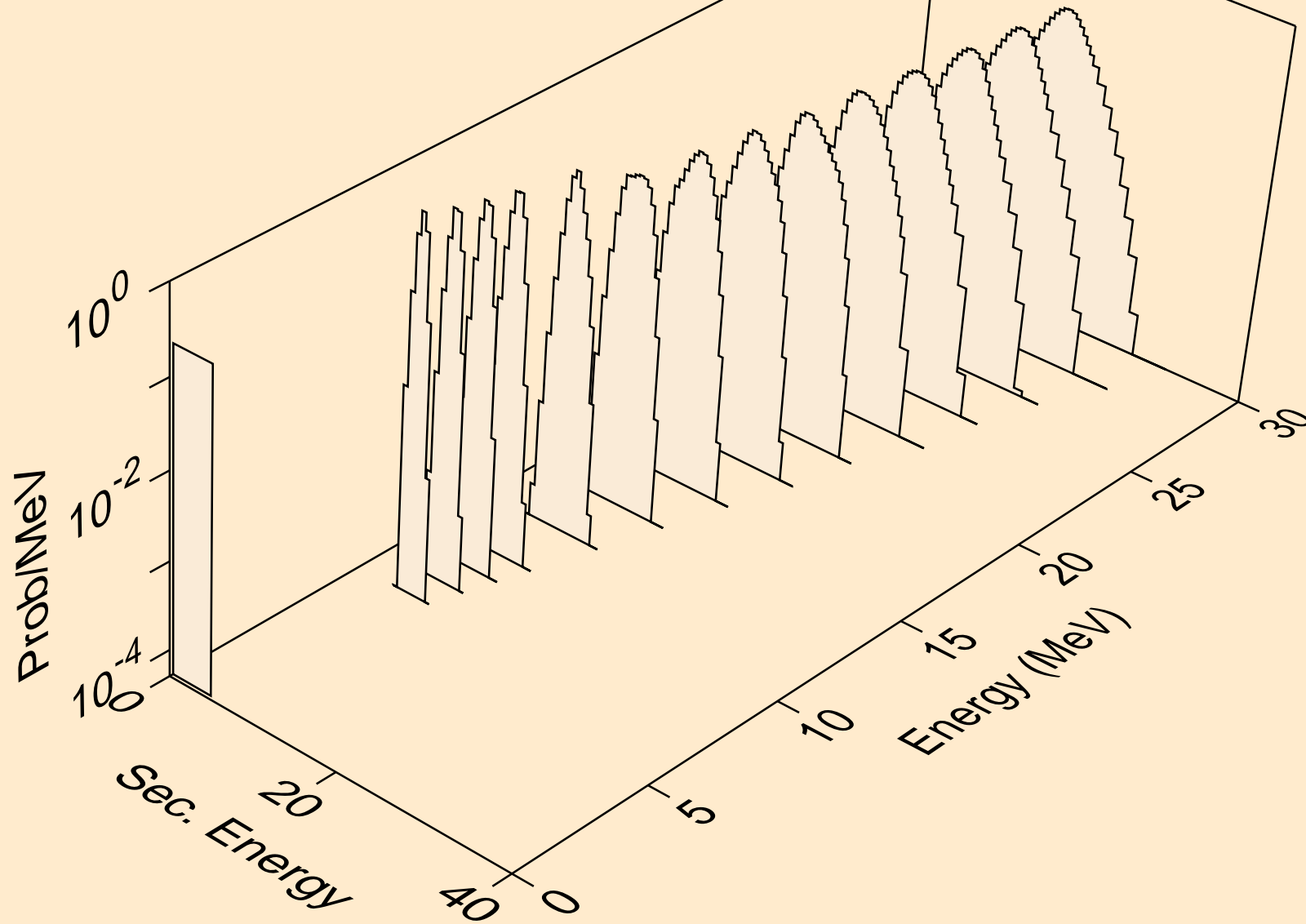
TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)





TB154M PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

