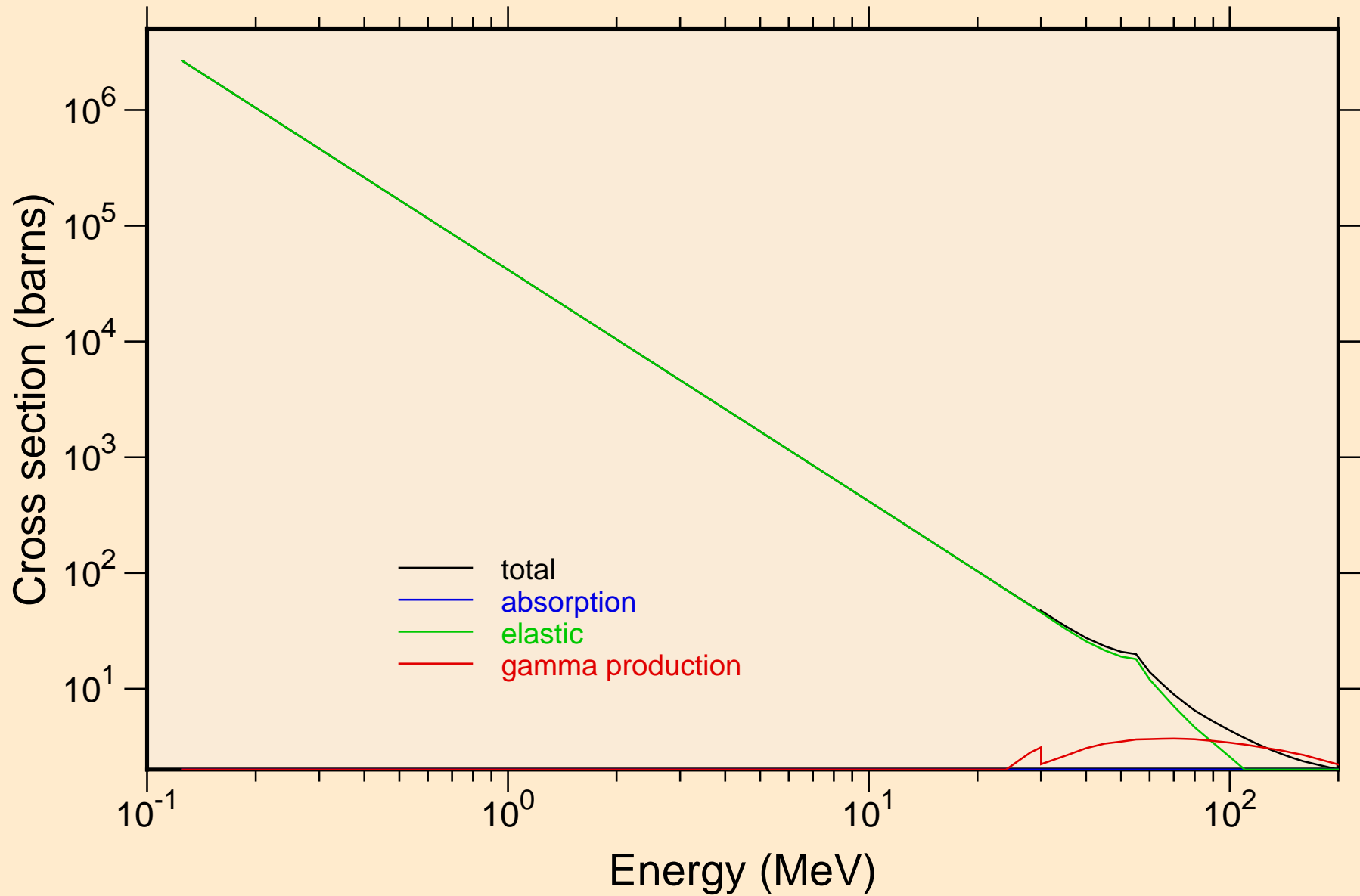
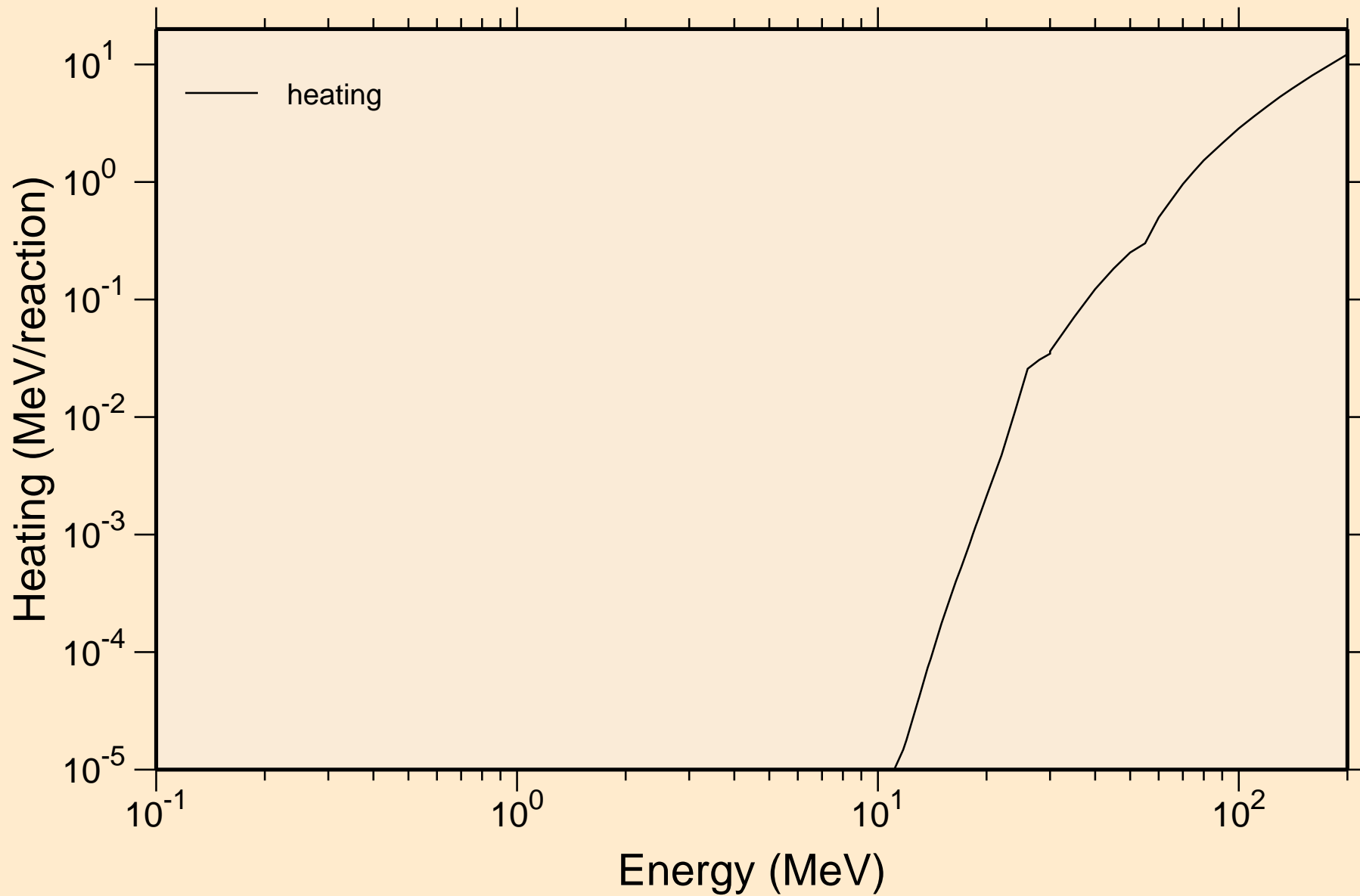


PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections

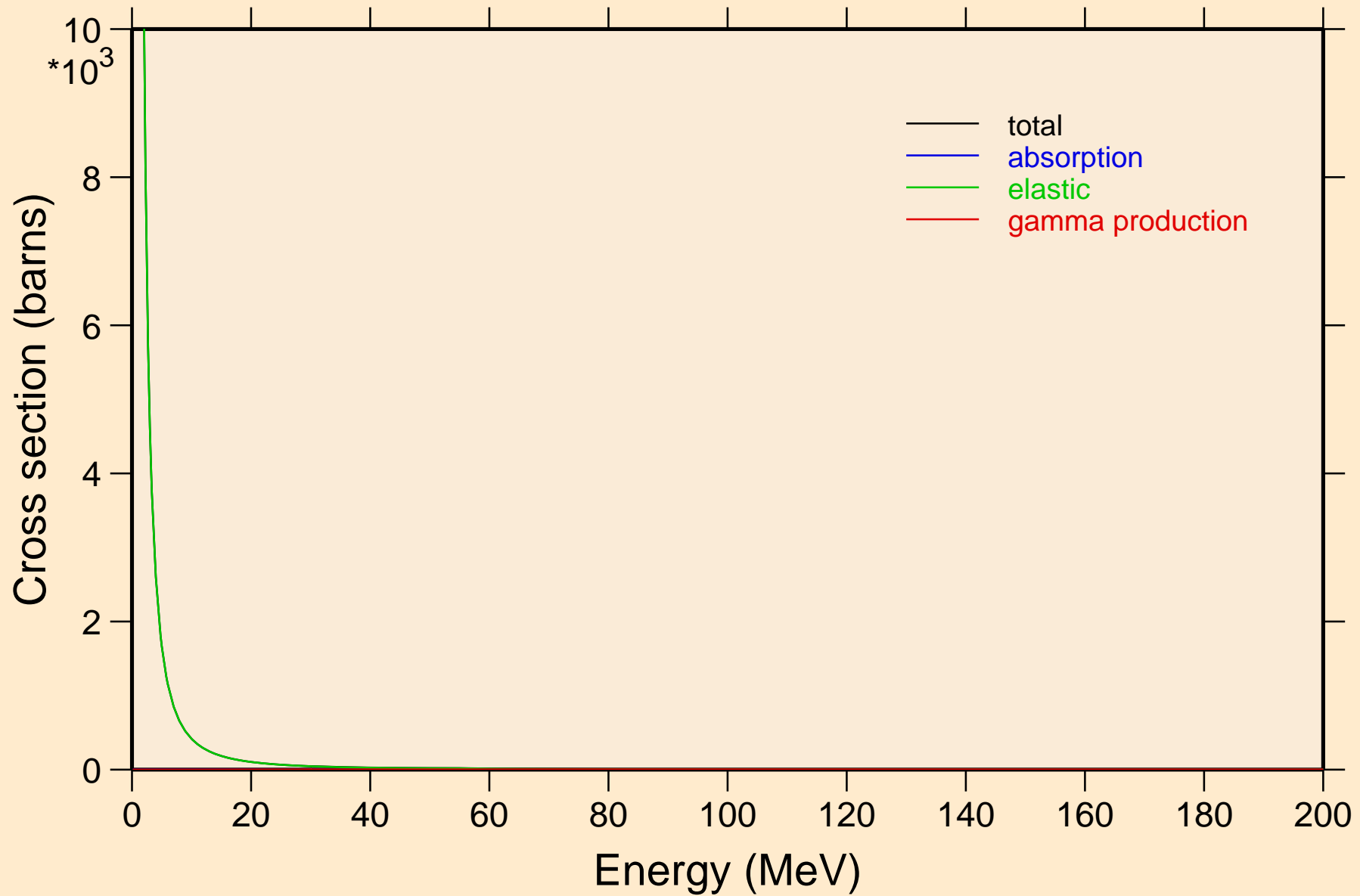


PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



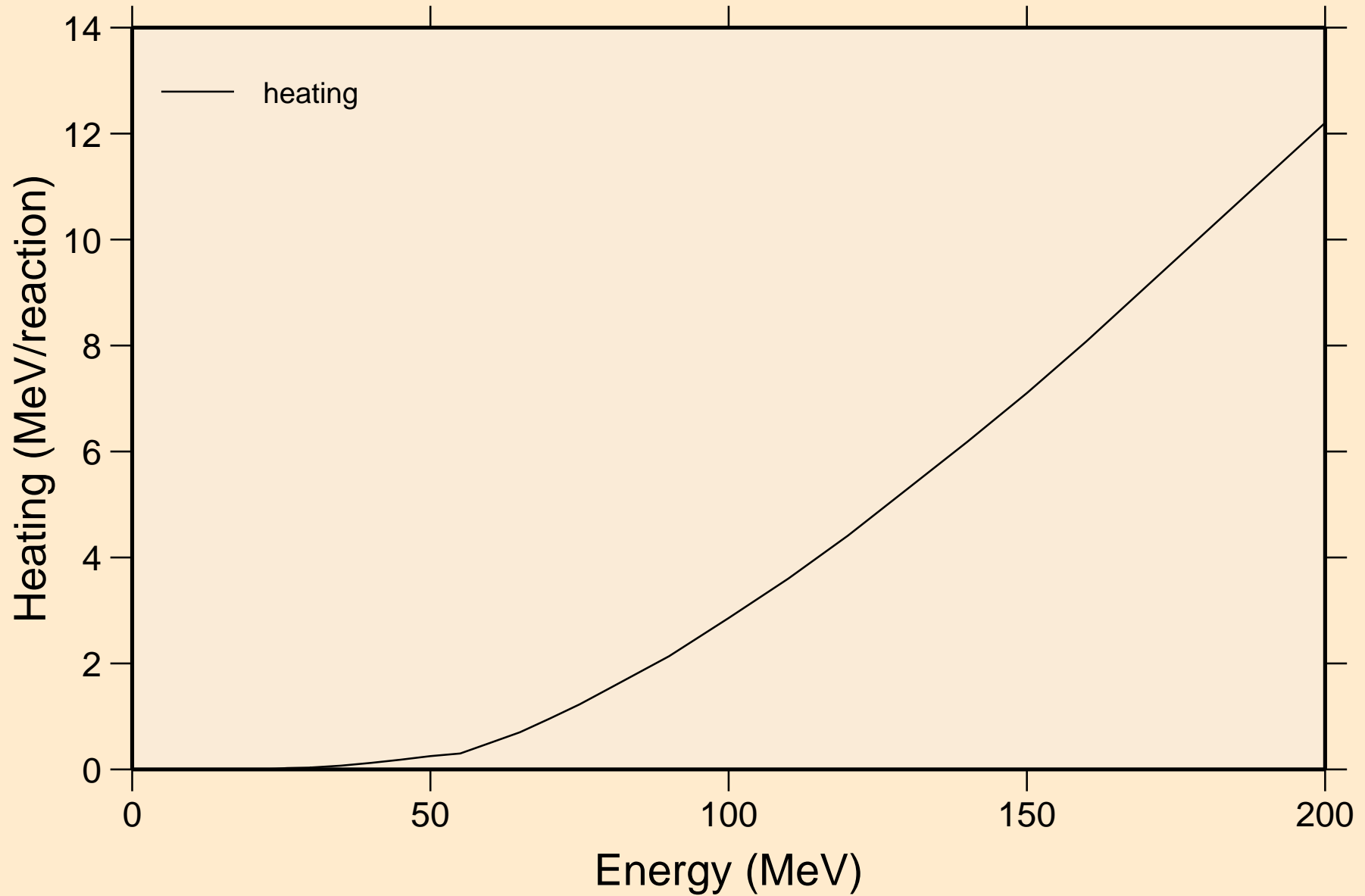
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## Principal cross sections



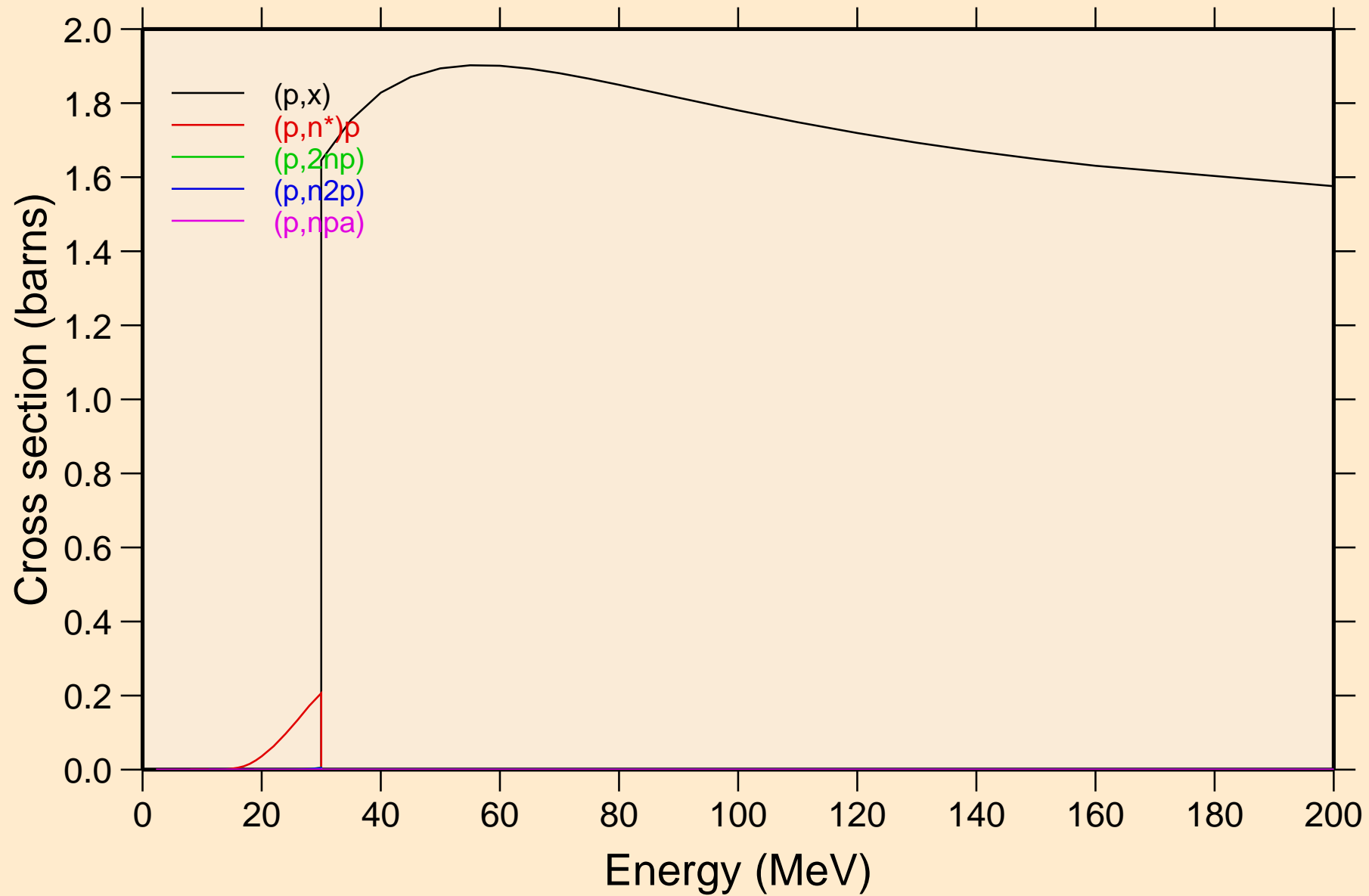
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Heating

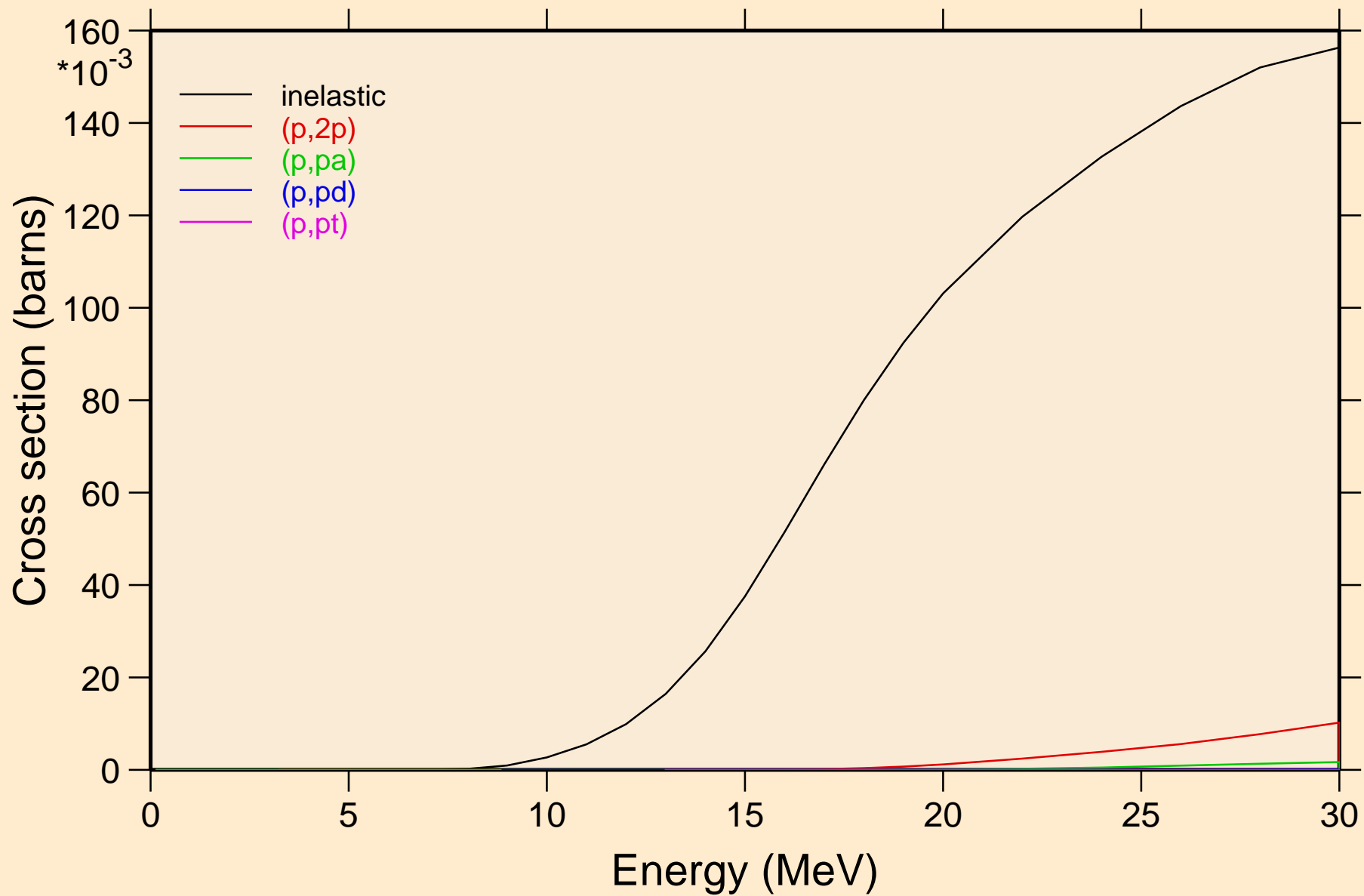


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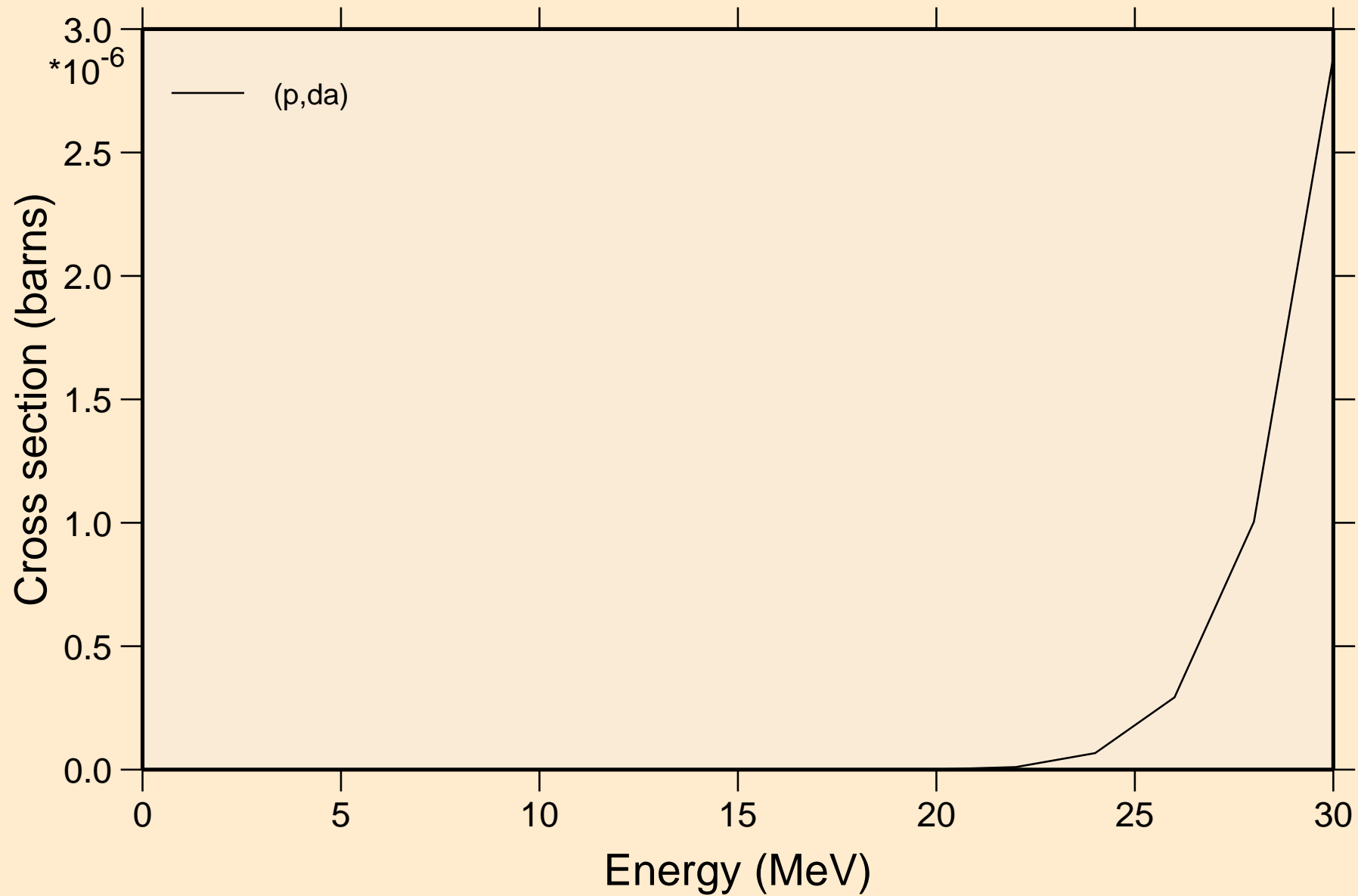
## Threshold reactions



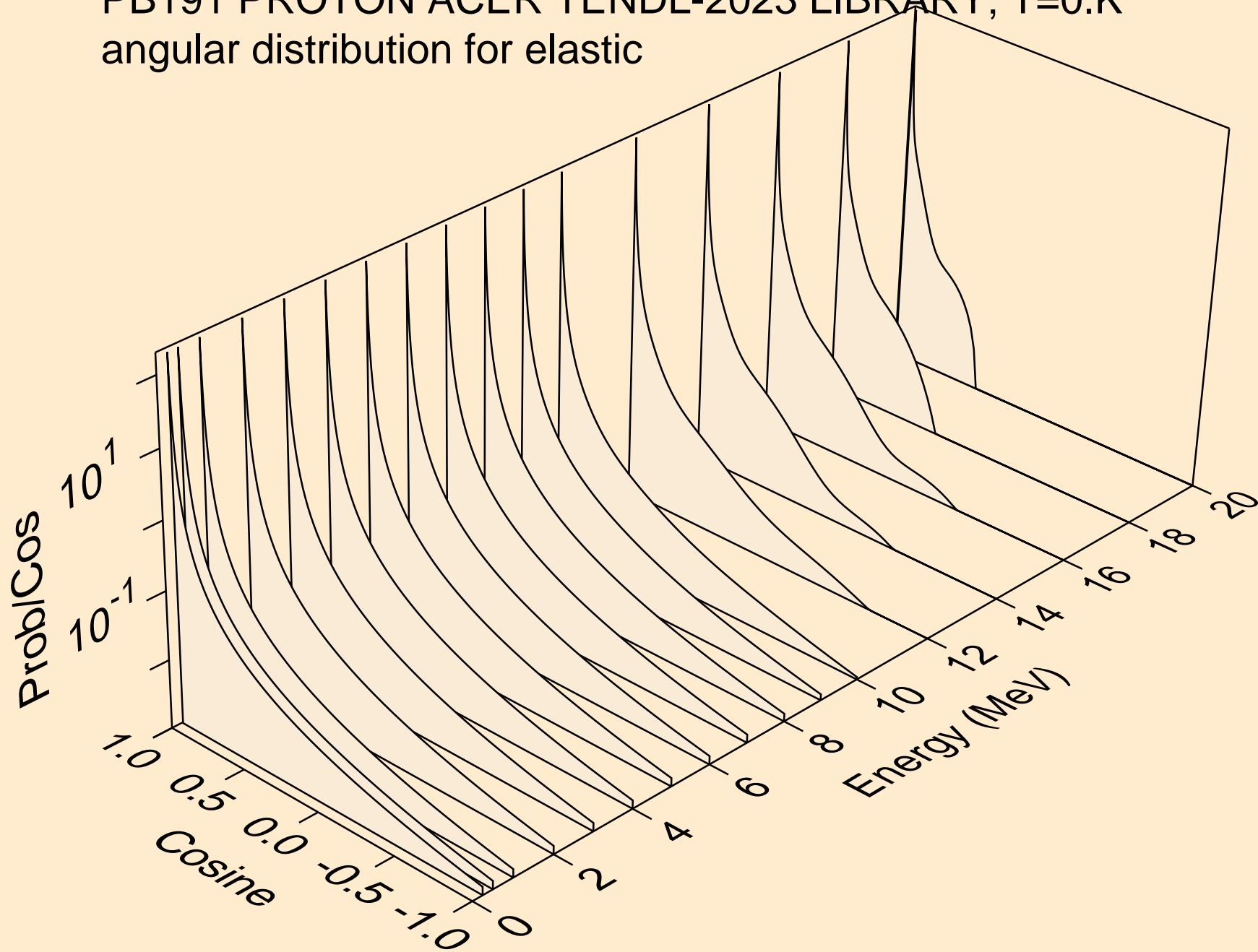
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

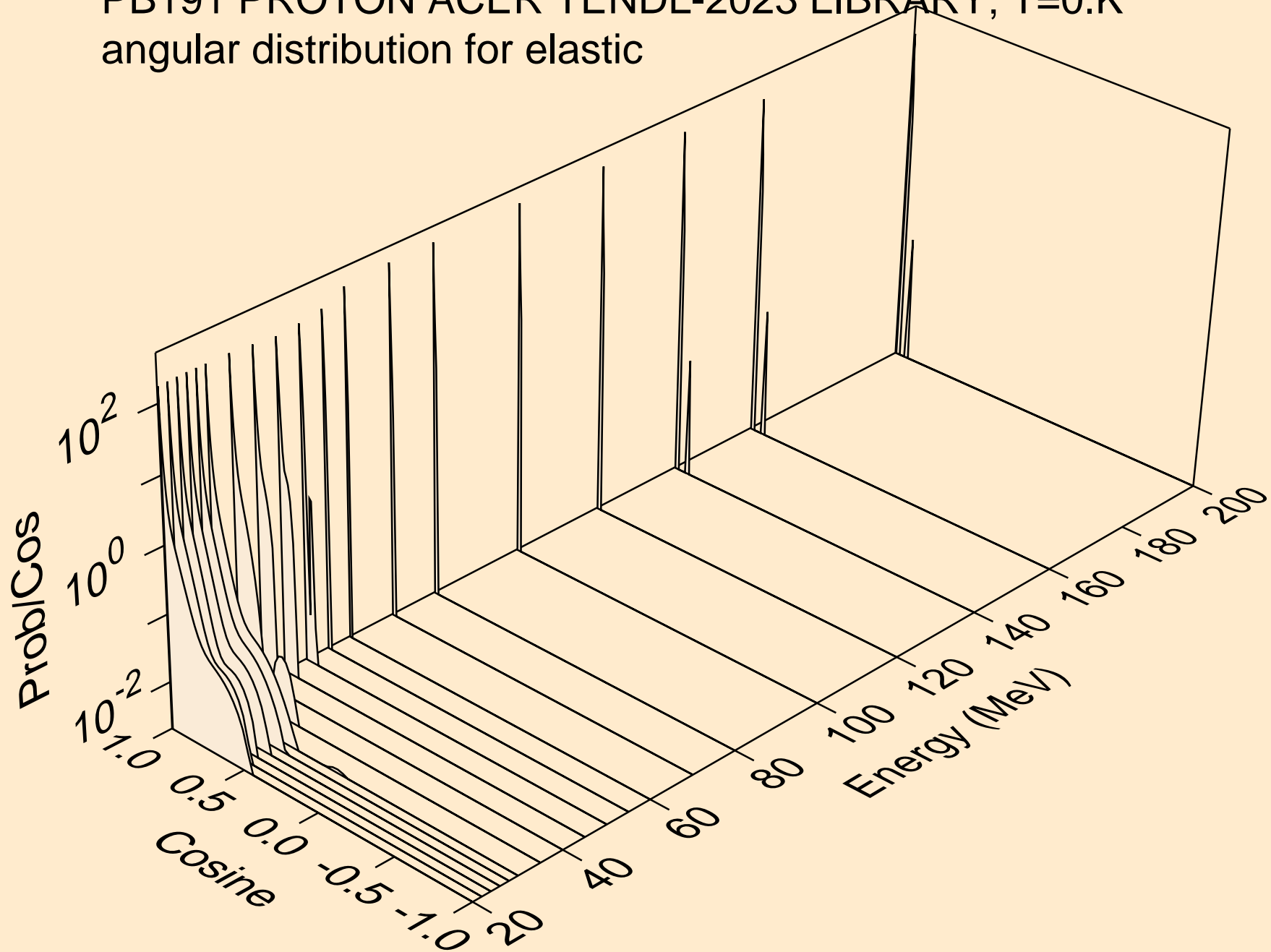


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angular distribution for elastic

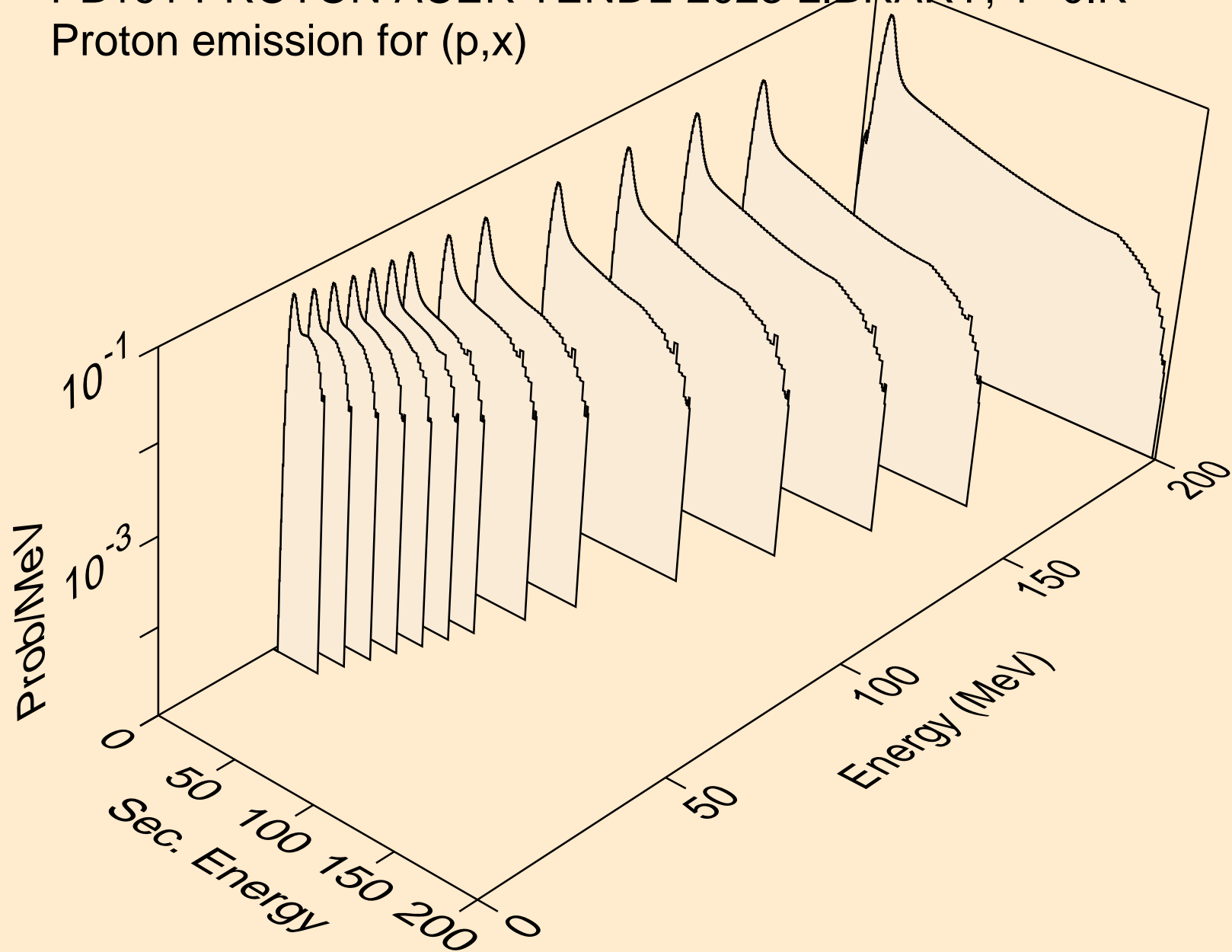




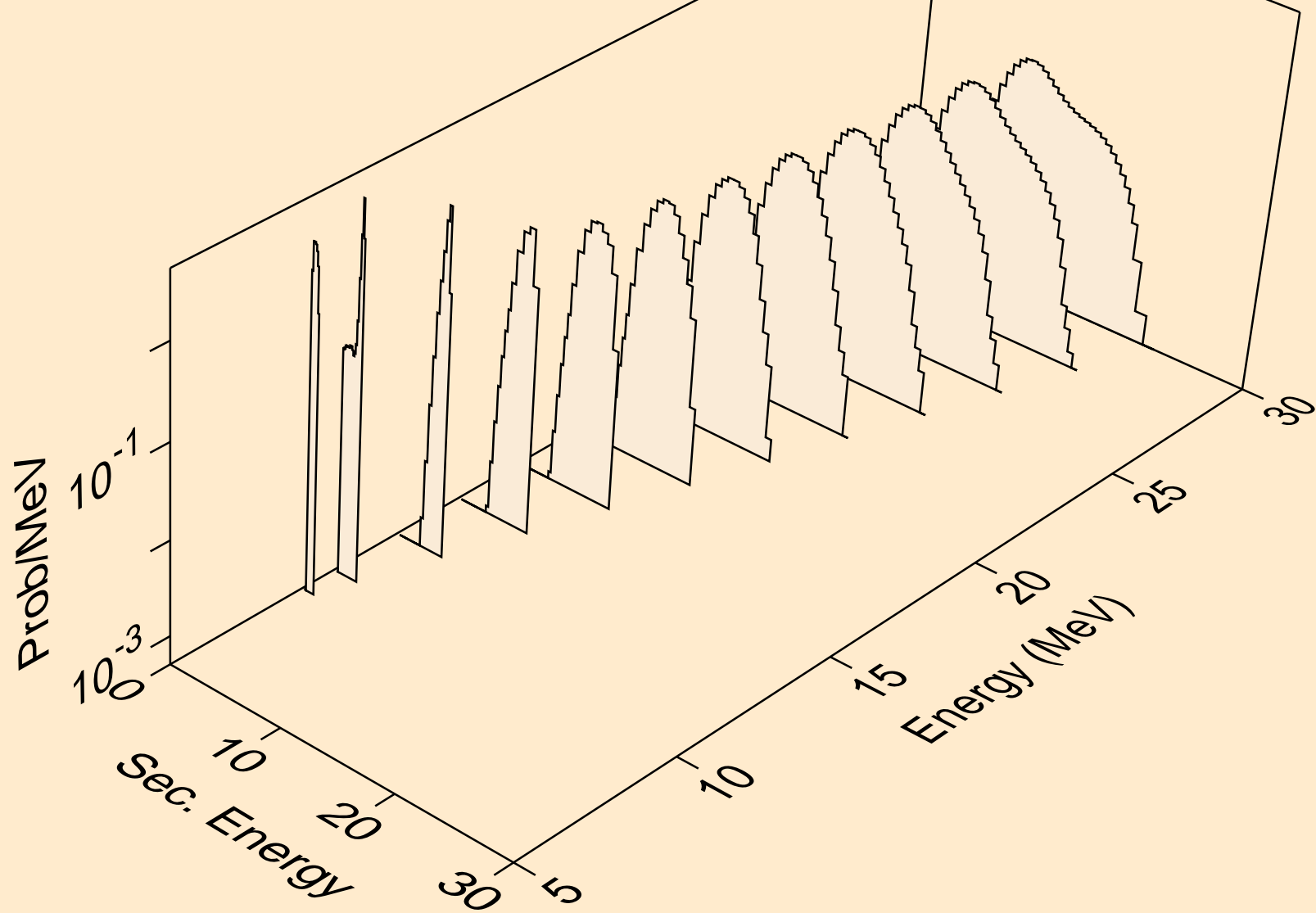
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angular distribution for elastic



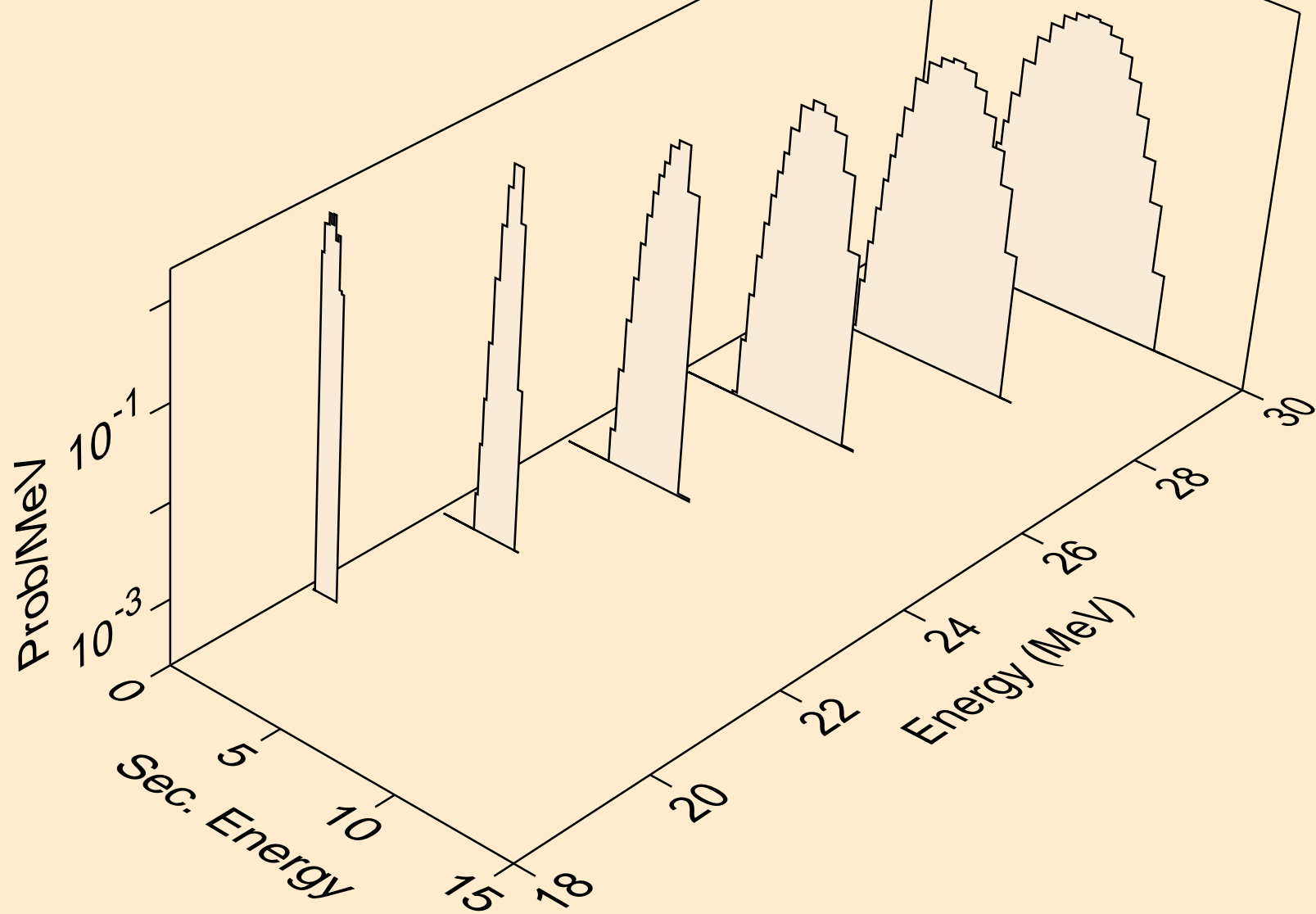
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



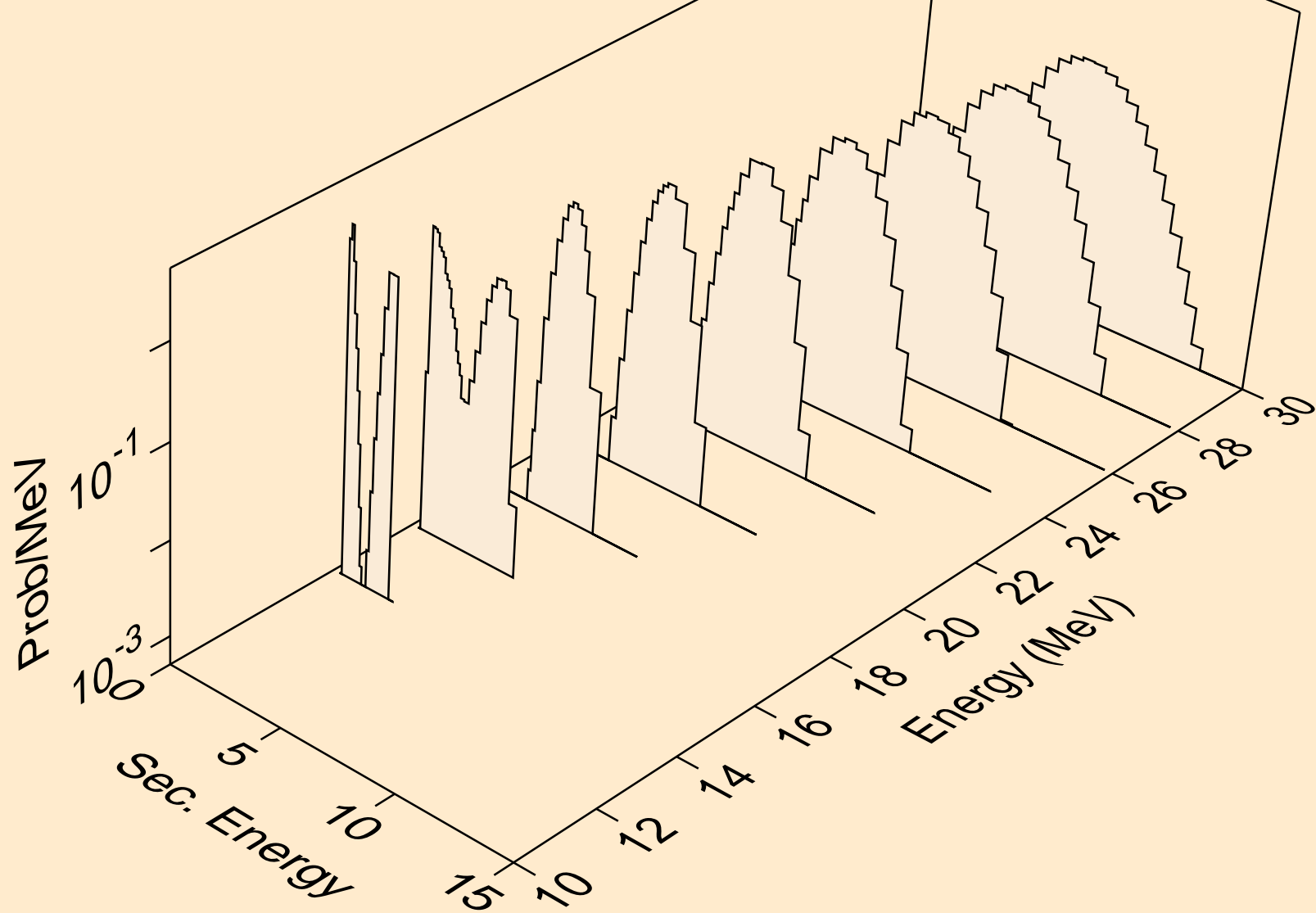
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



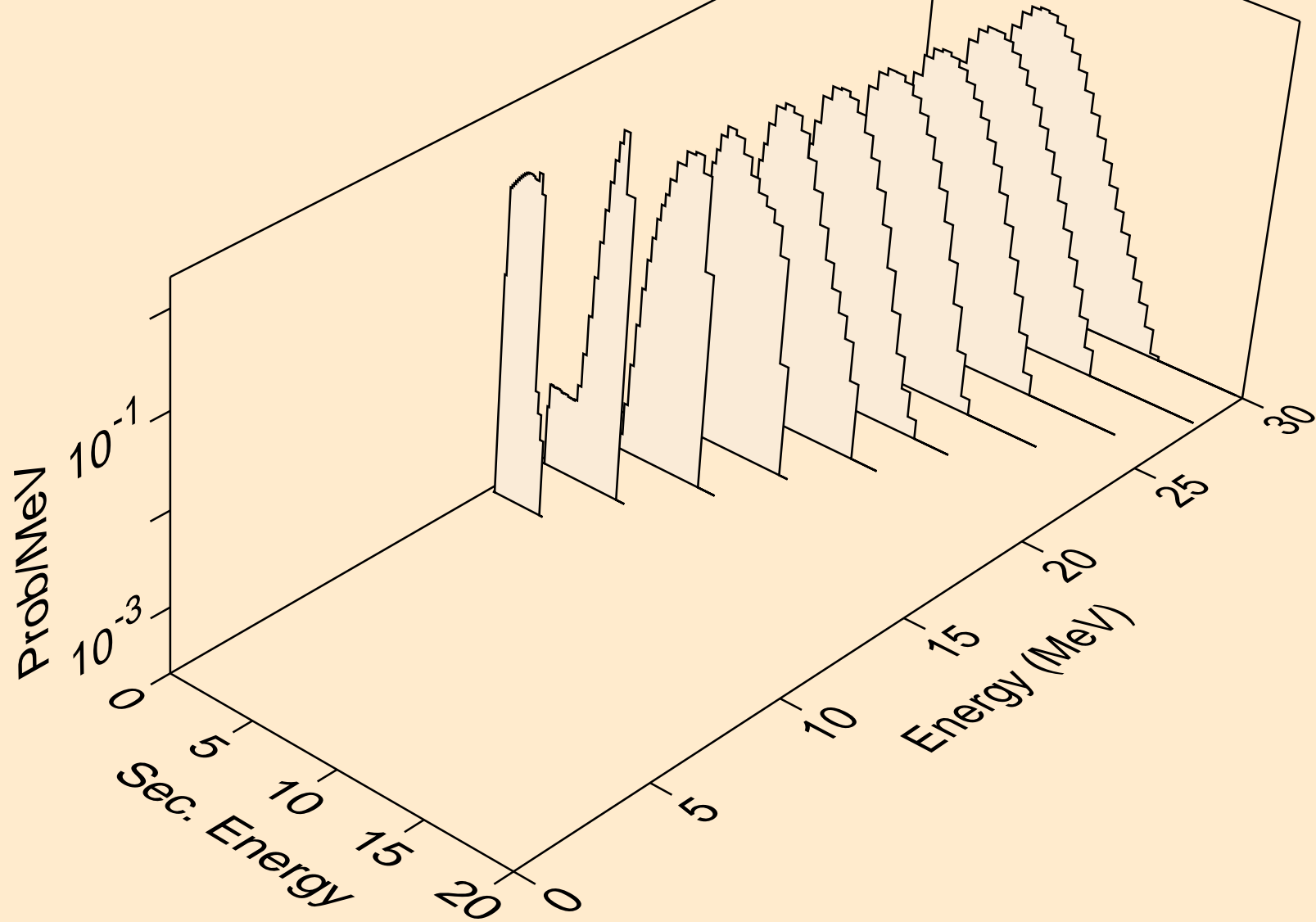
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



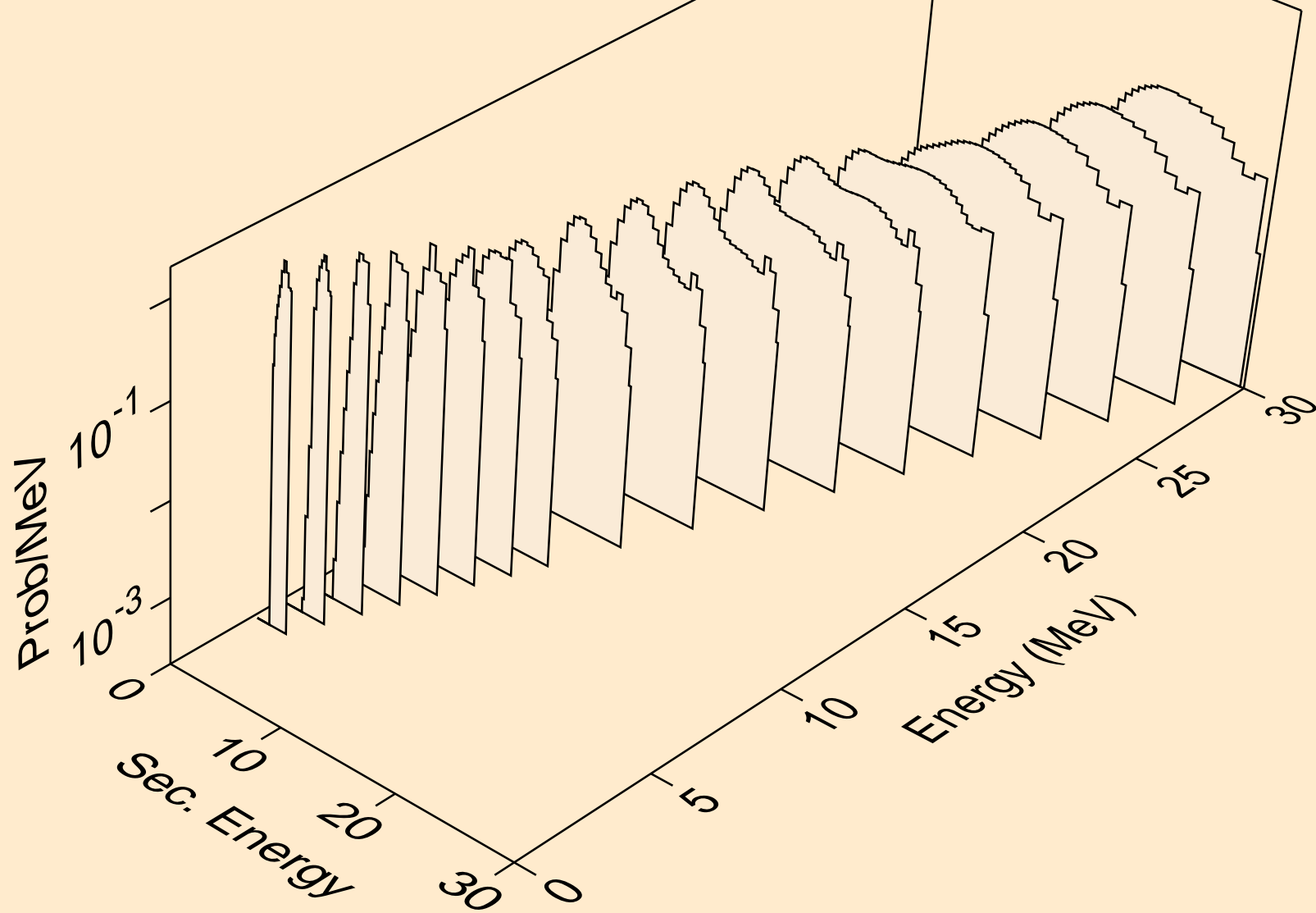
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



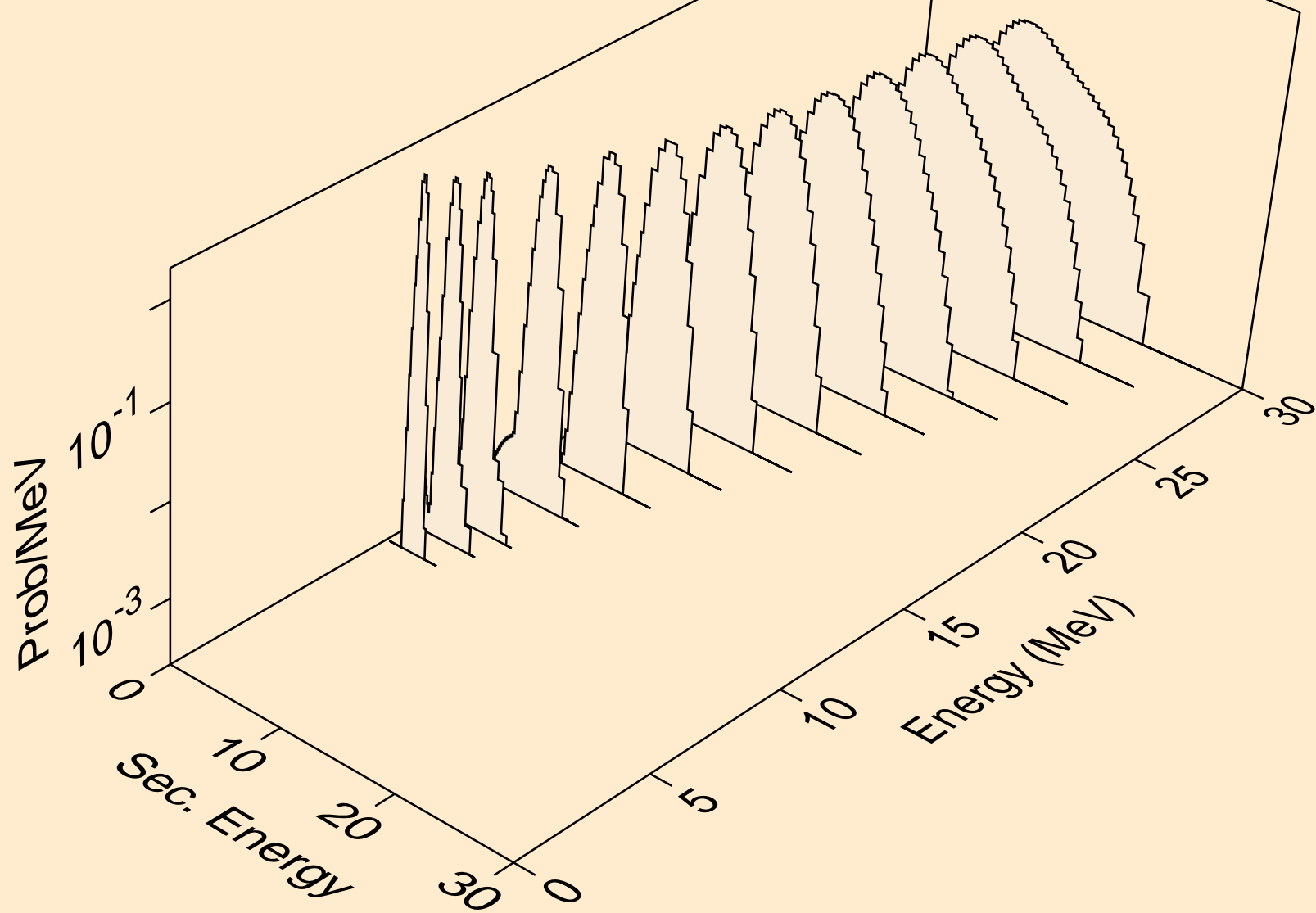
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

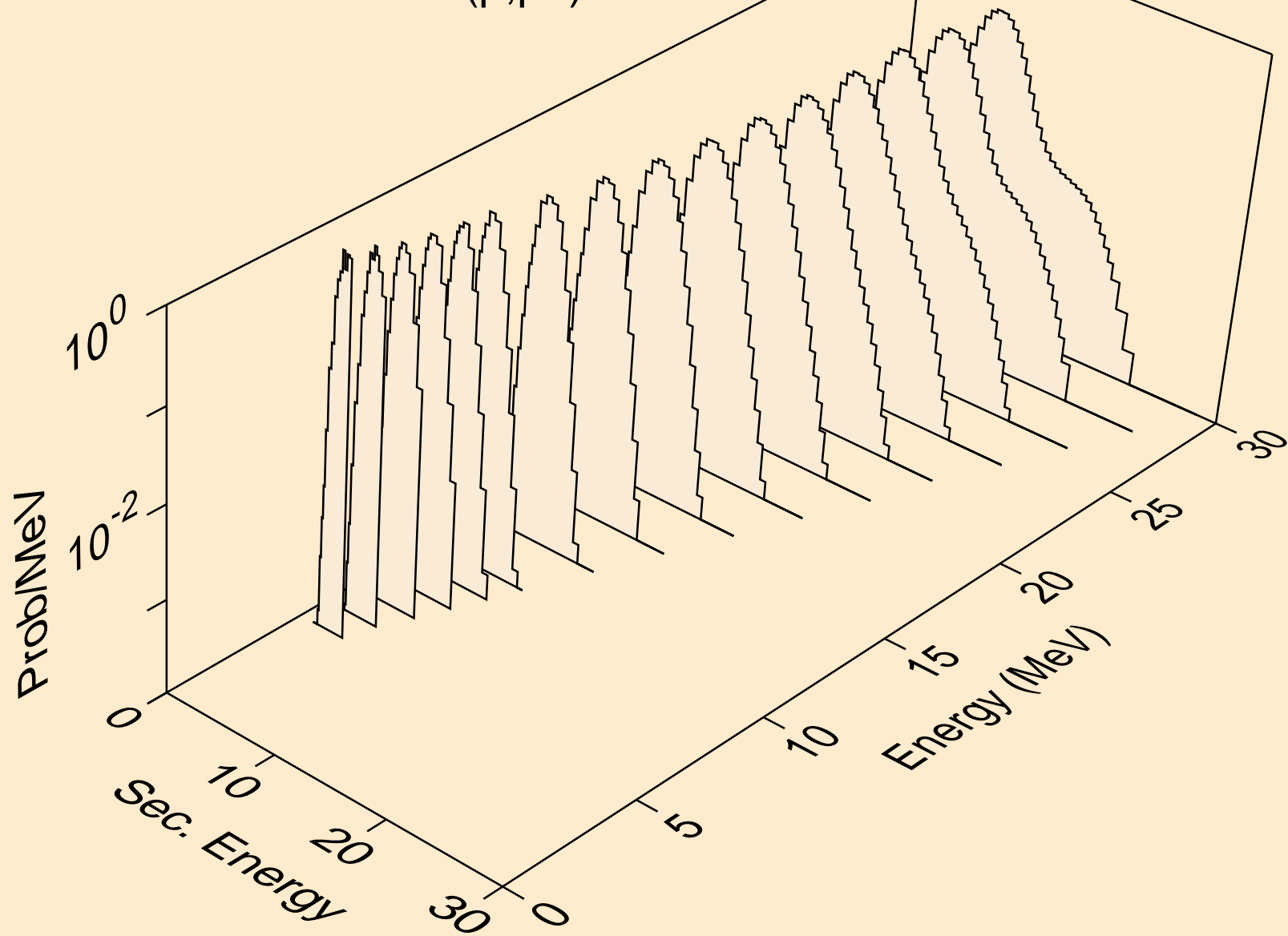


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Proton emission for (p,2p)

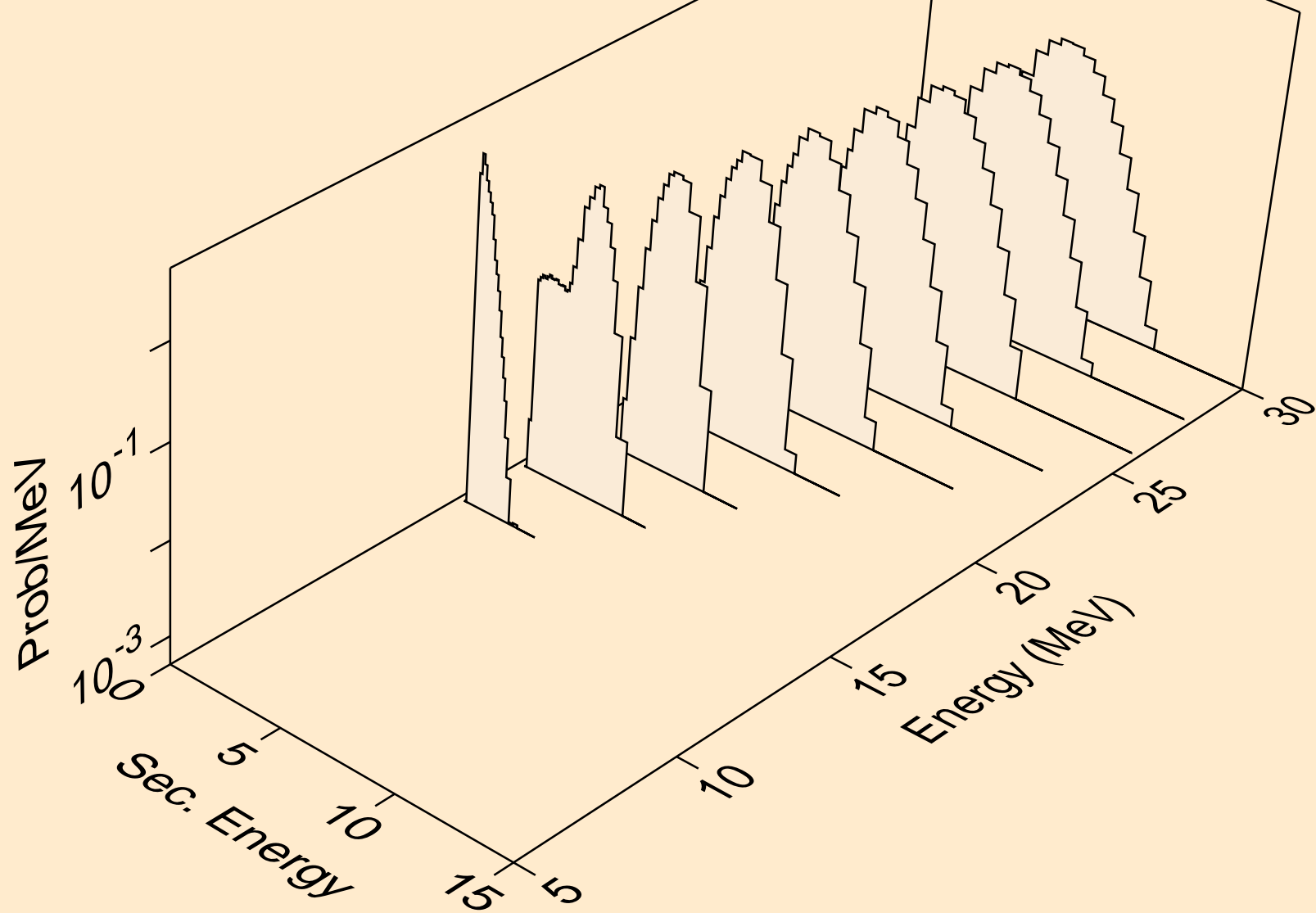




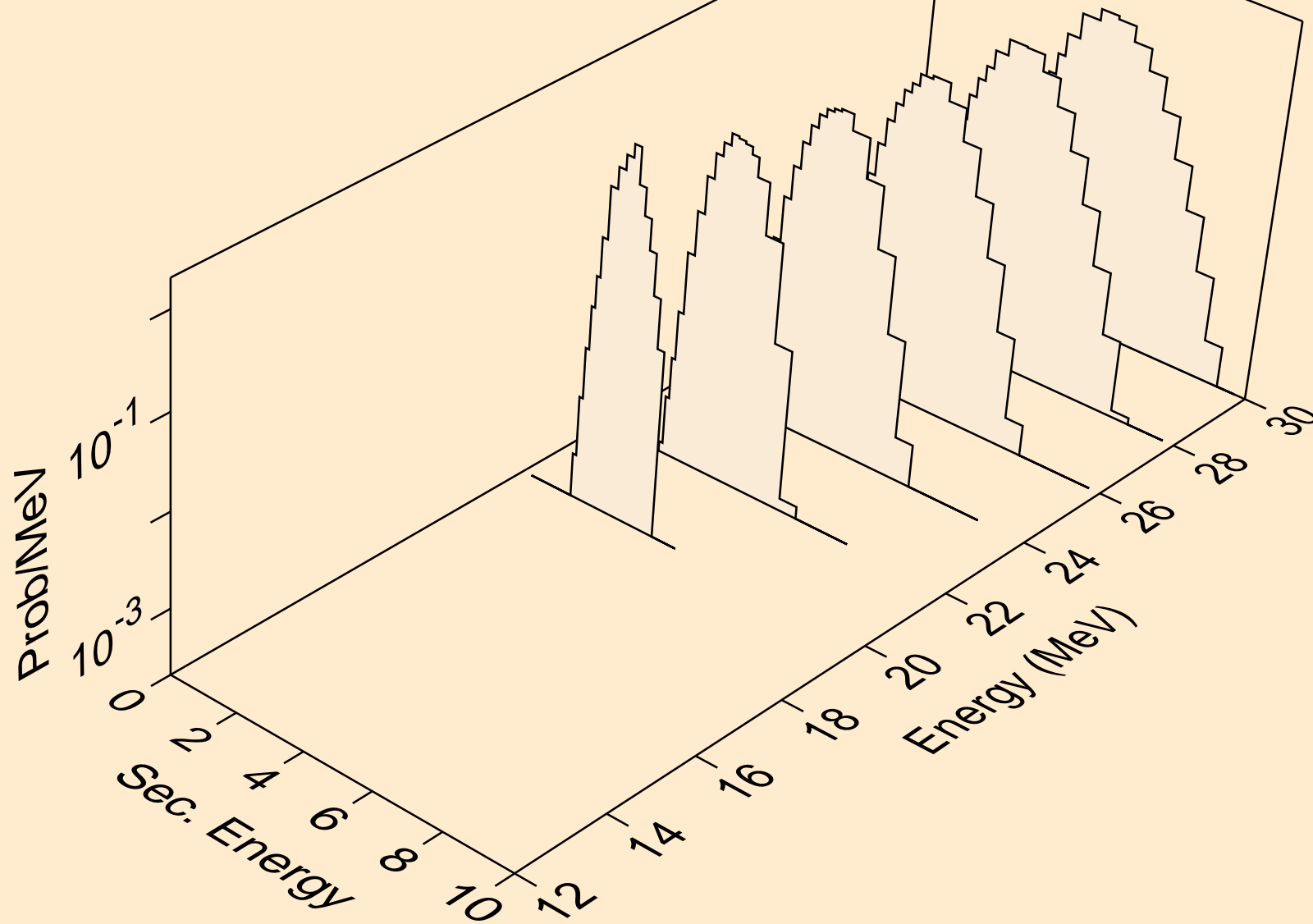
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Proton emission for (p,pa)



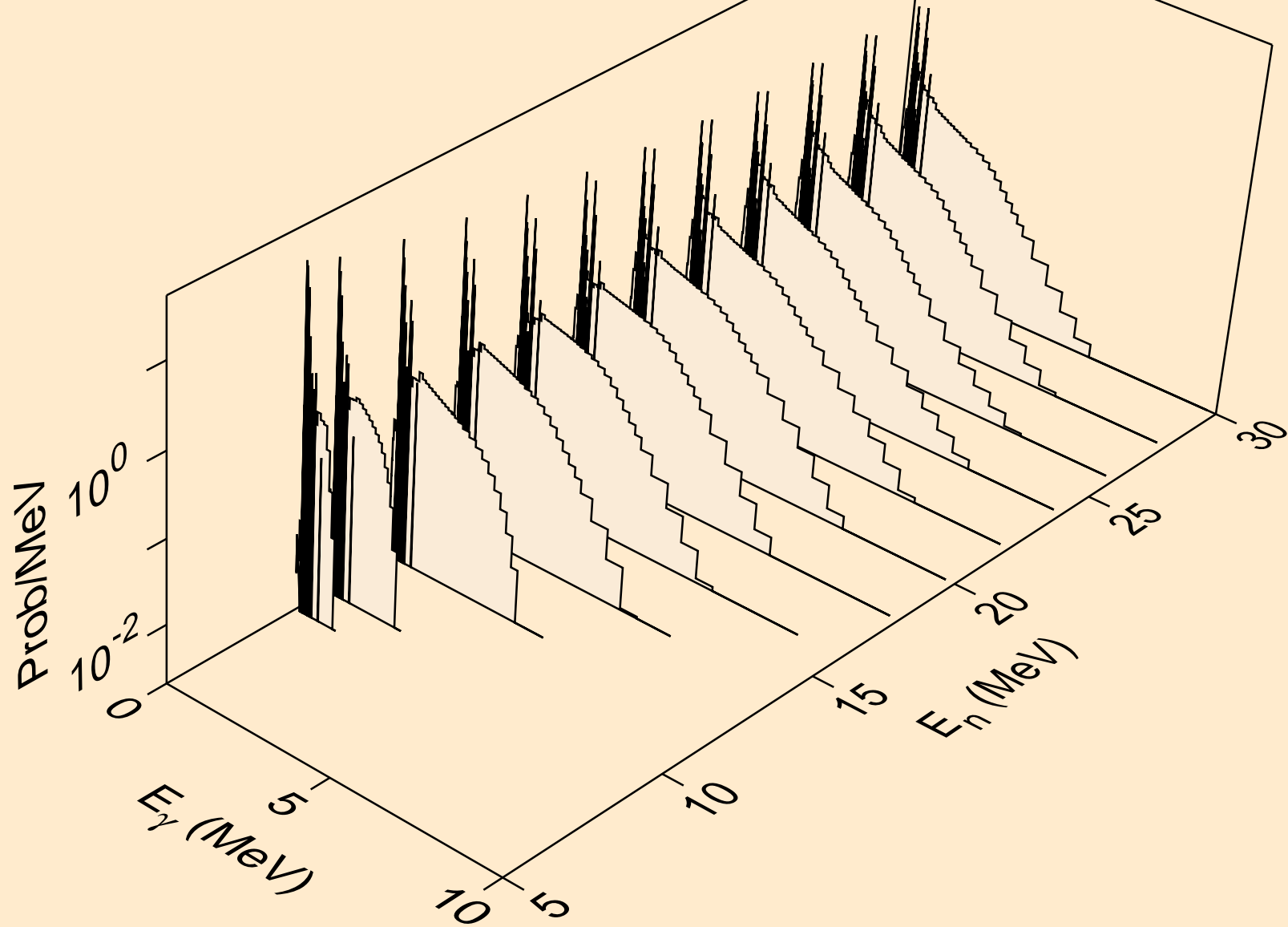
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Proton emission for (p,pd)



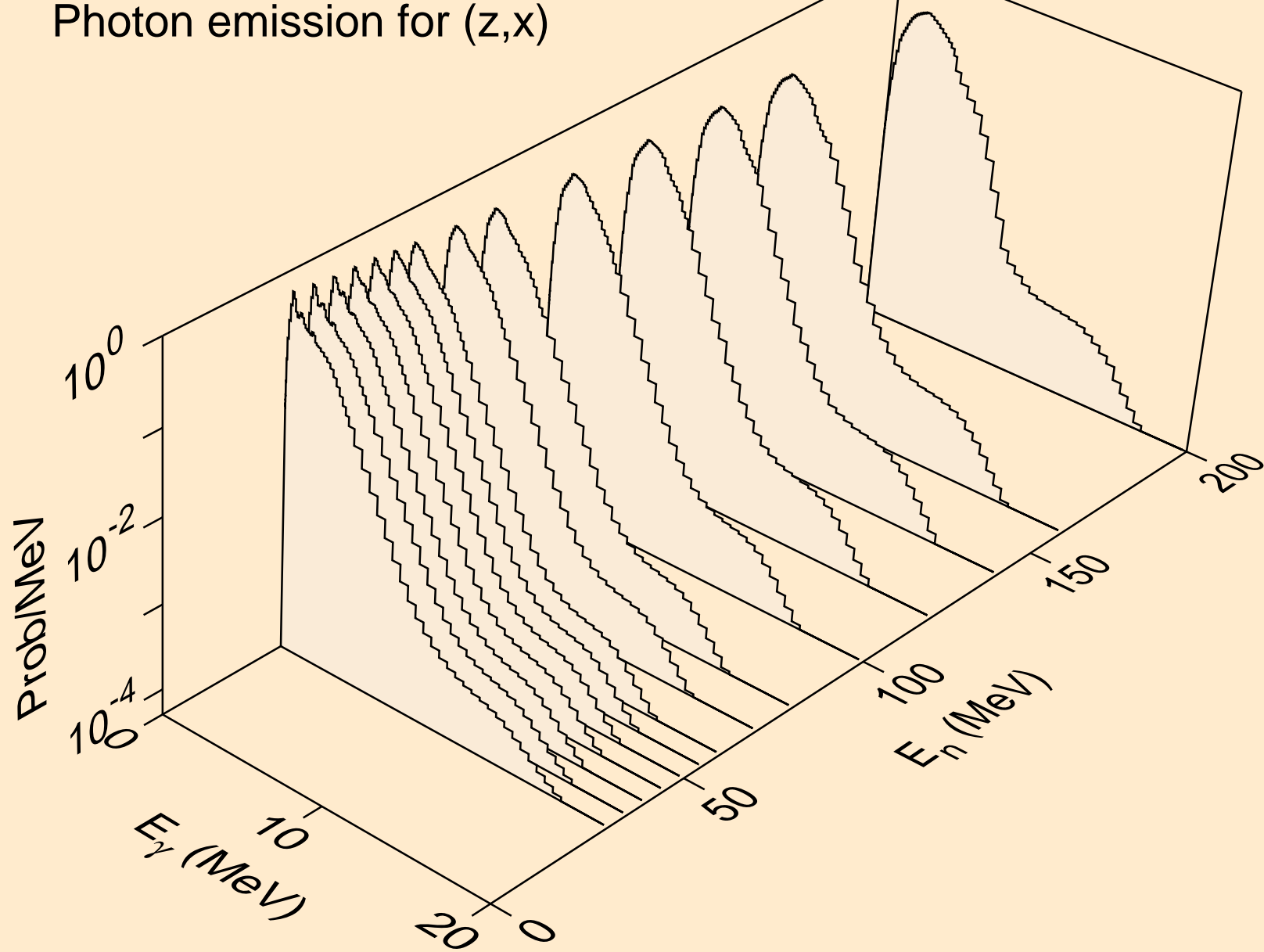
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Proton emission for (p,pt)



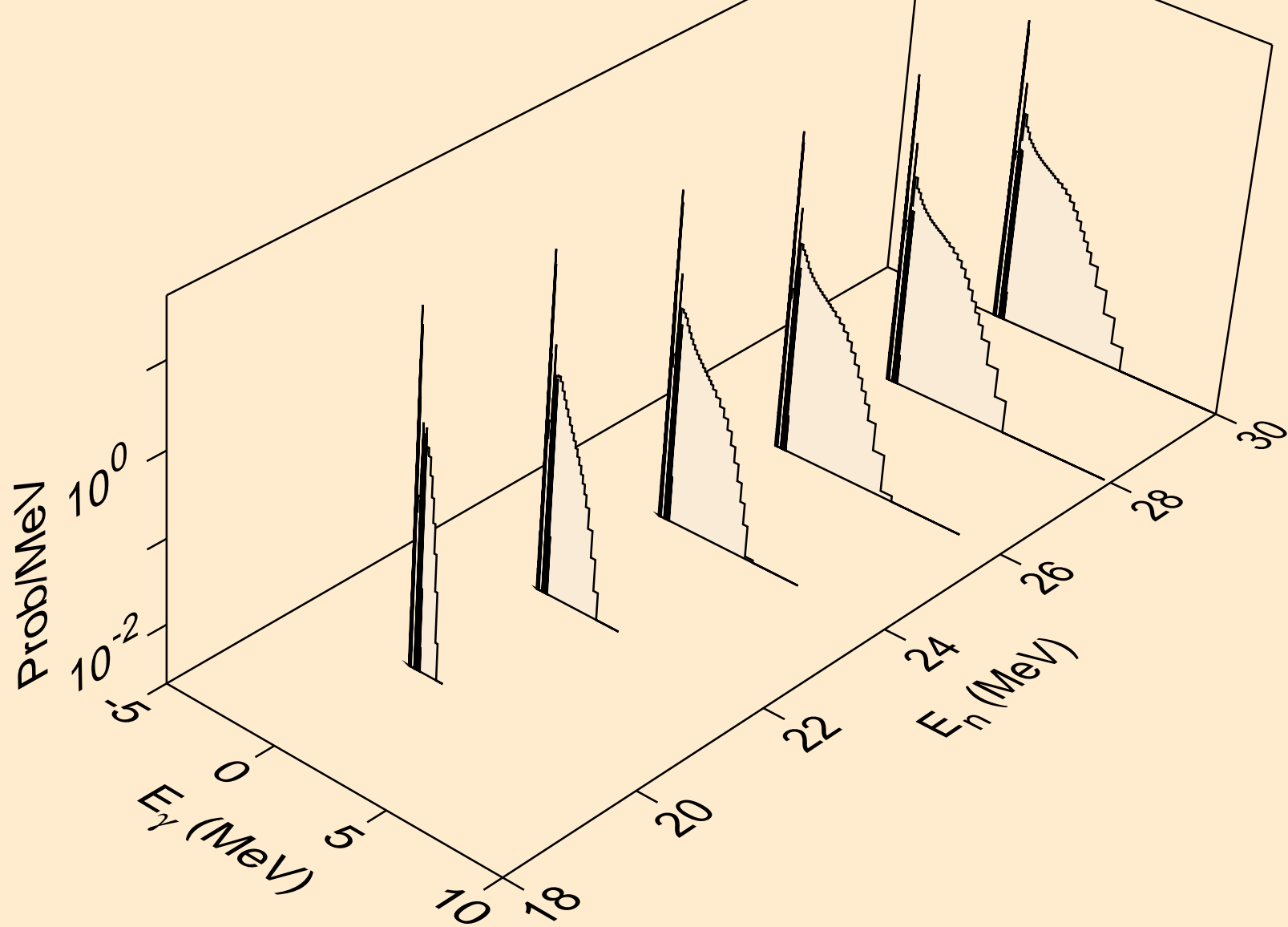
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Photon emission for (z,n)



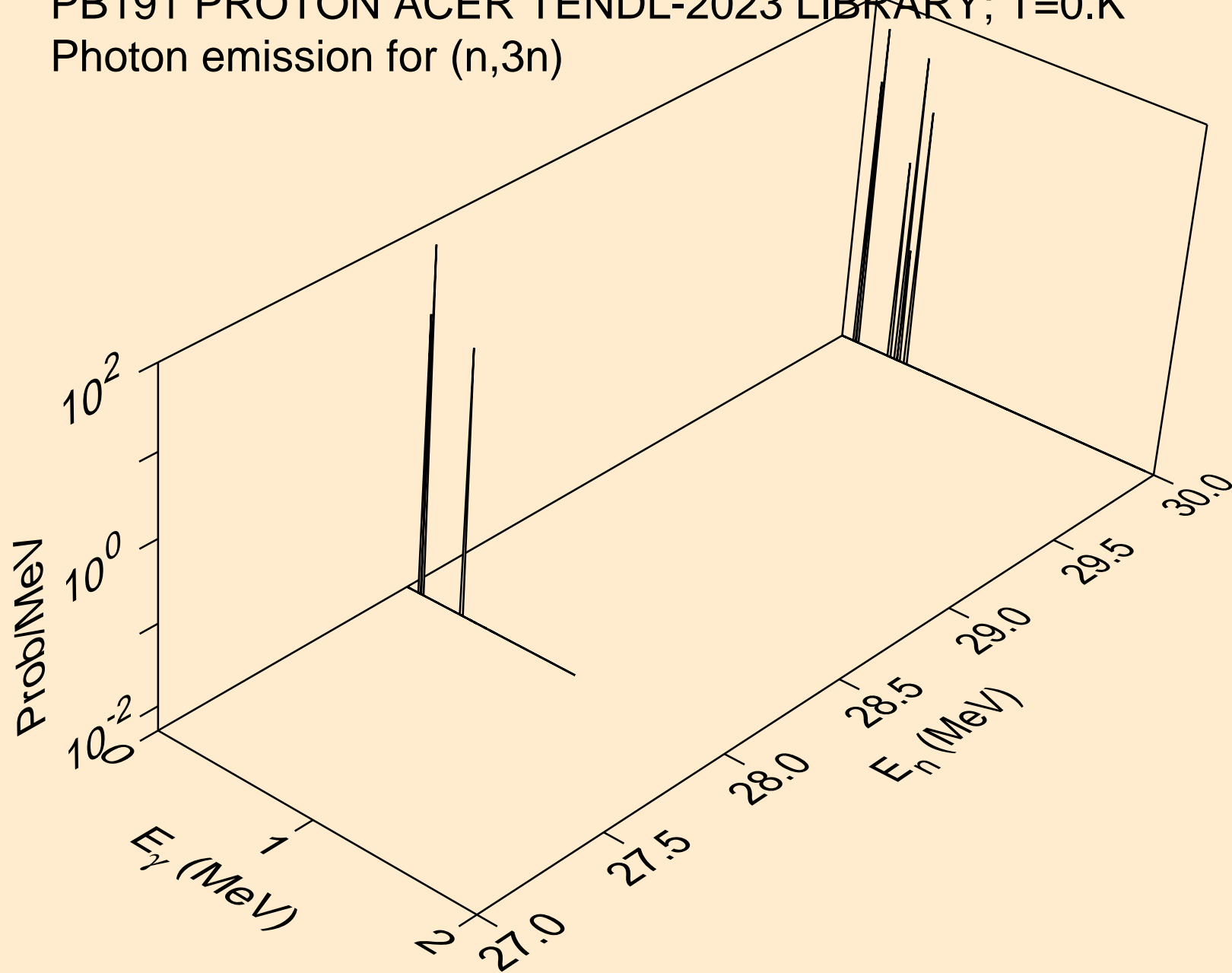
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Photon emission for (z,x)



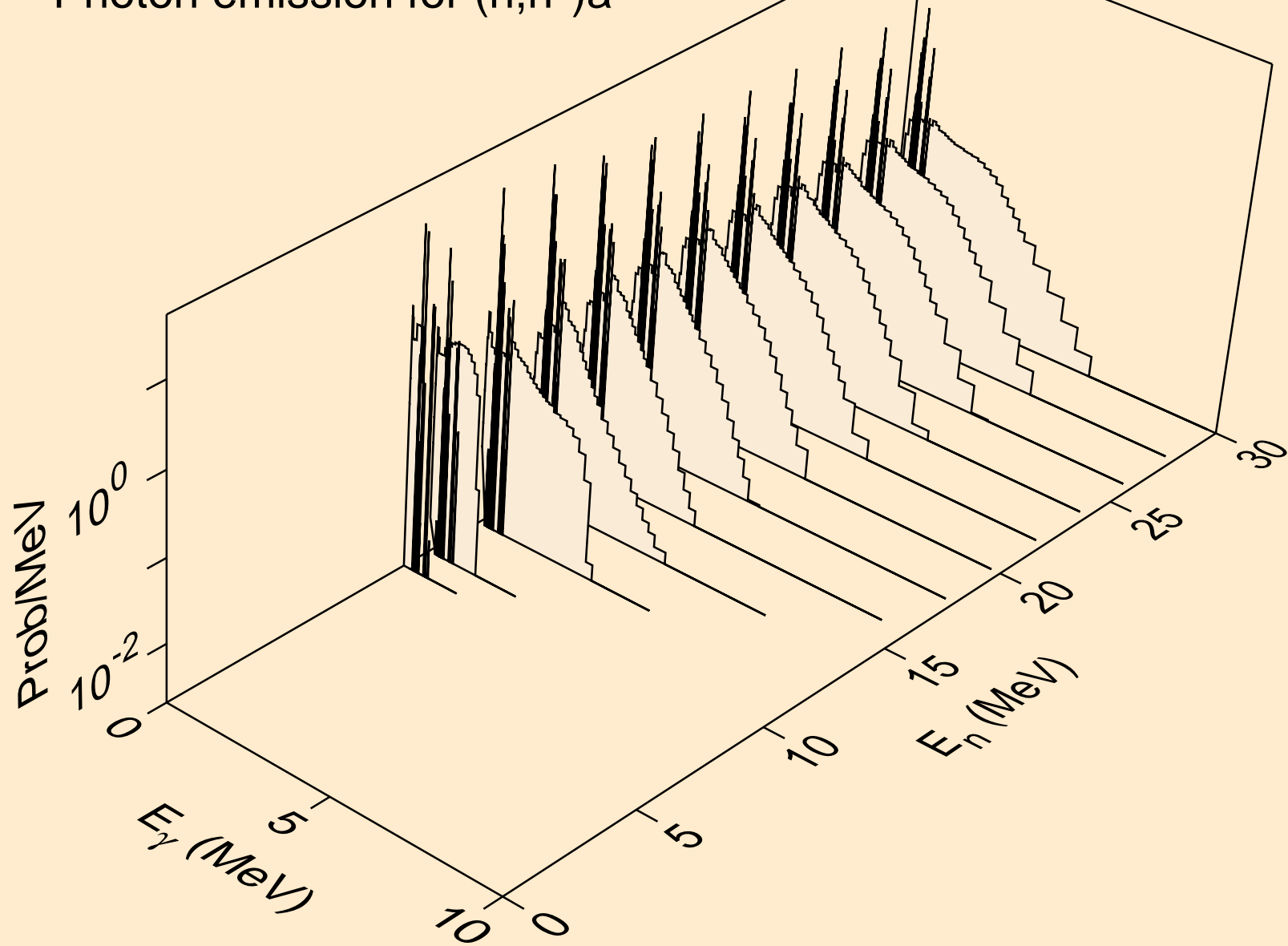
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

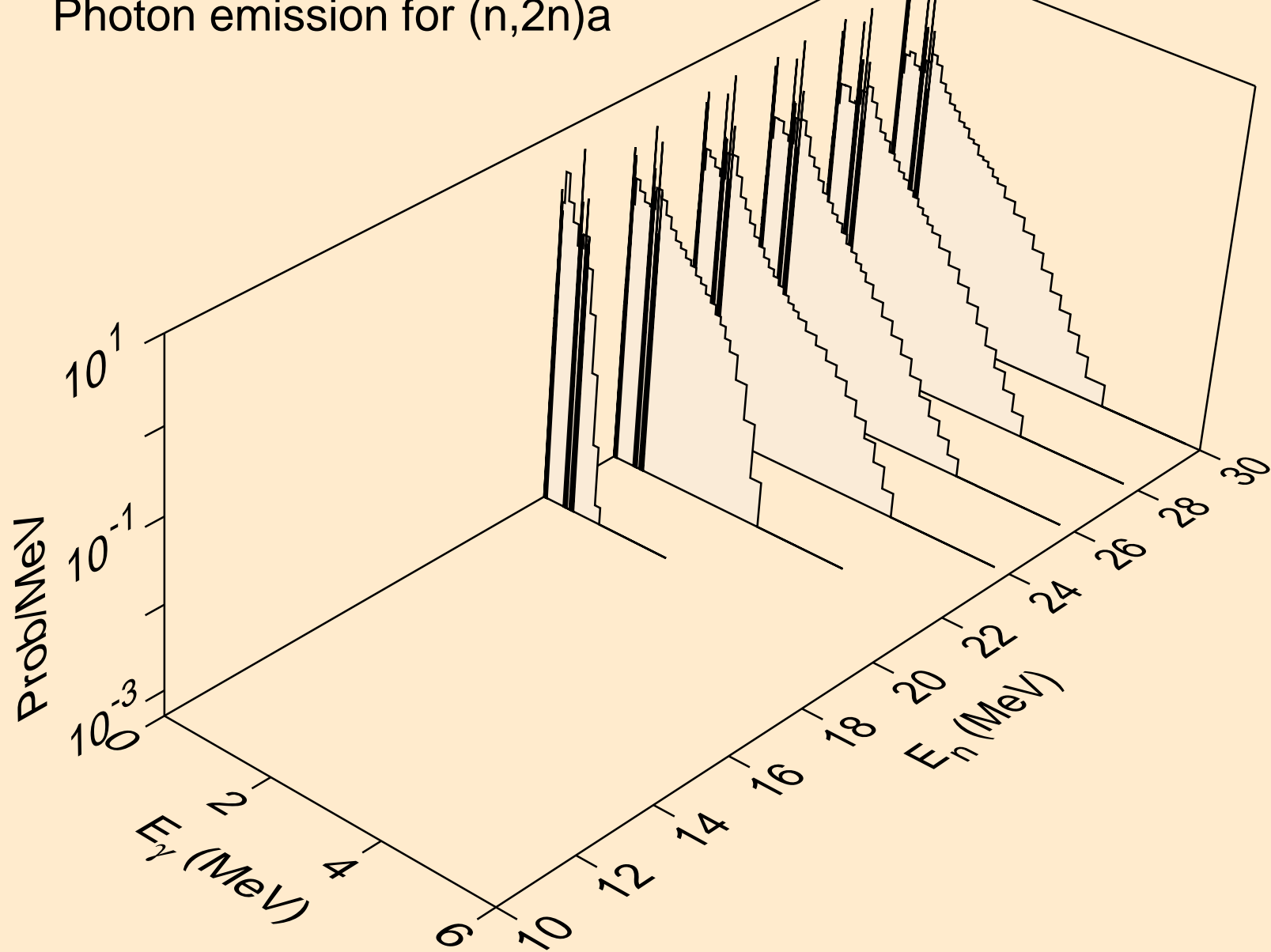


PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

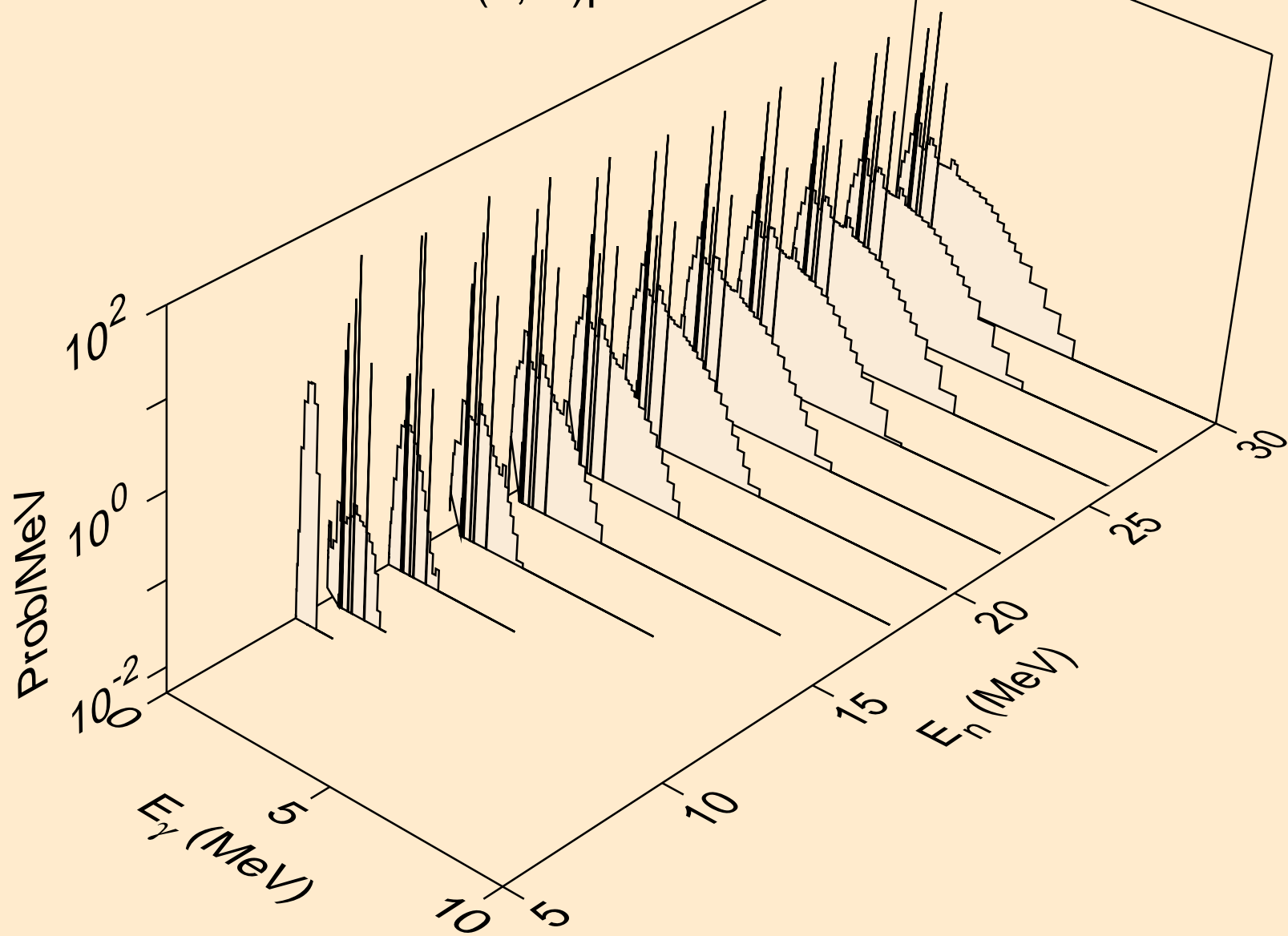




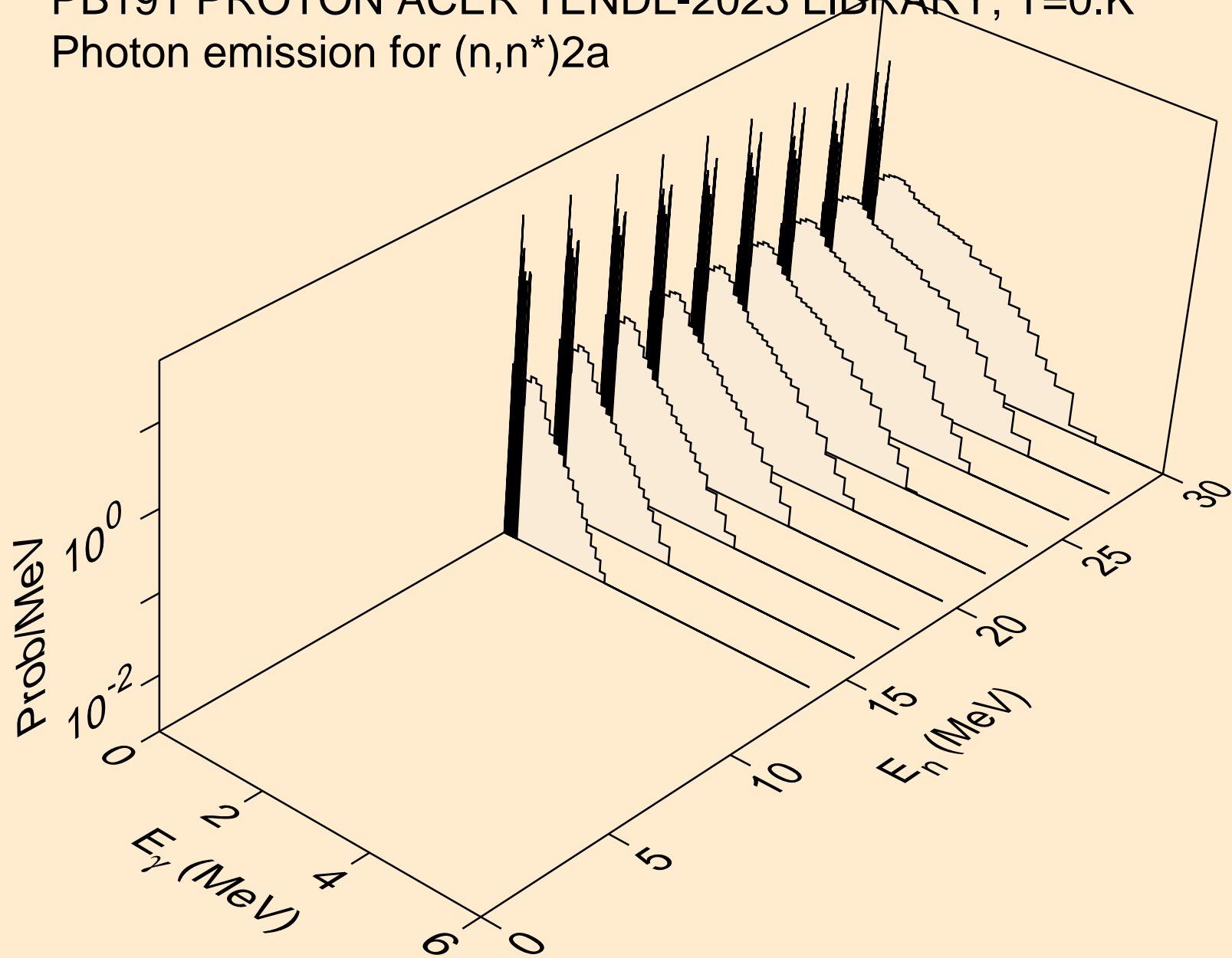
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Photon emission for (n,2n)a



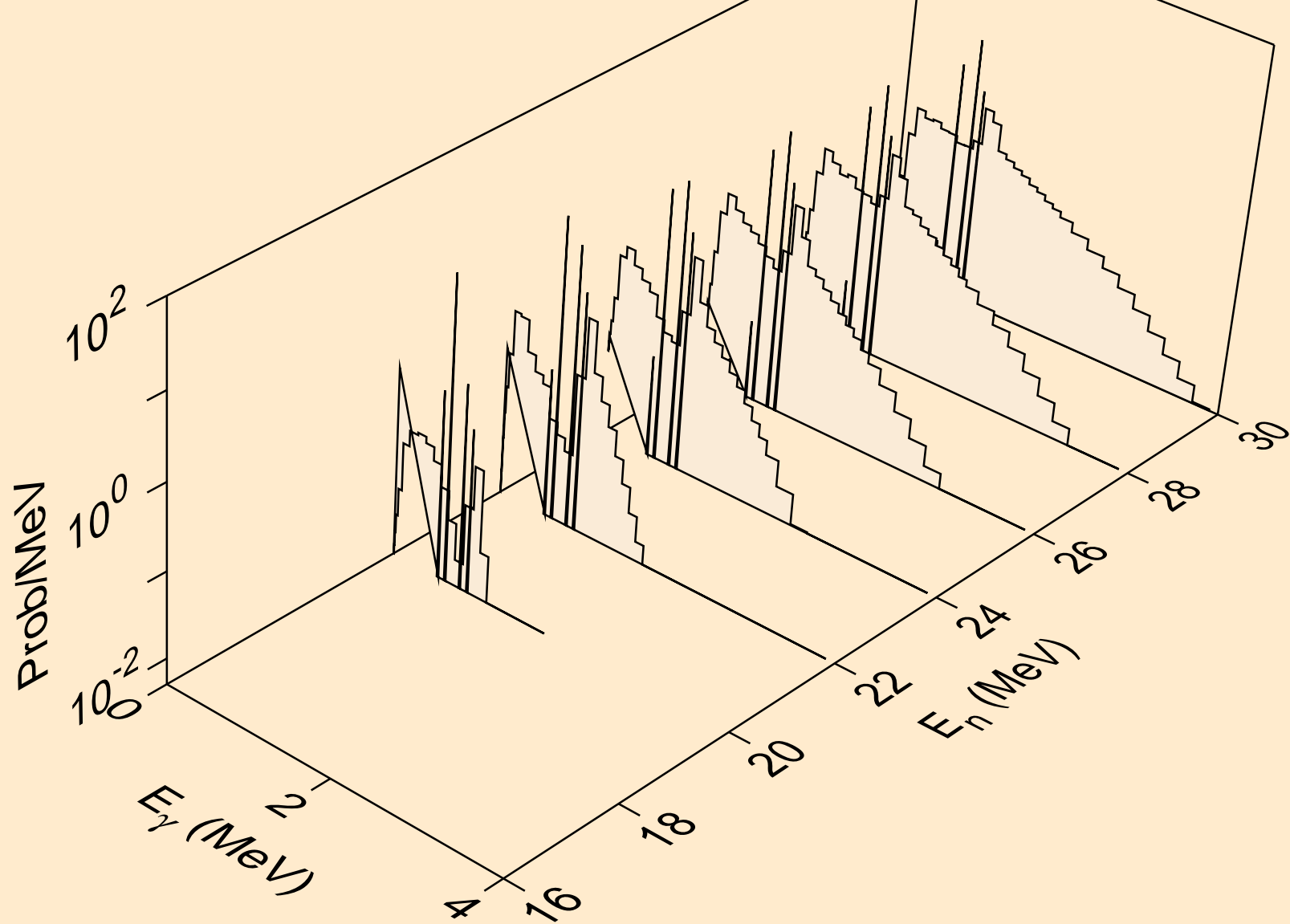
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Photon emission for (n,n\*)p



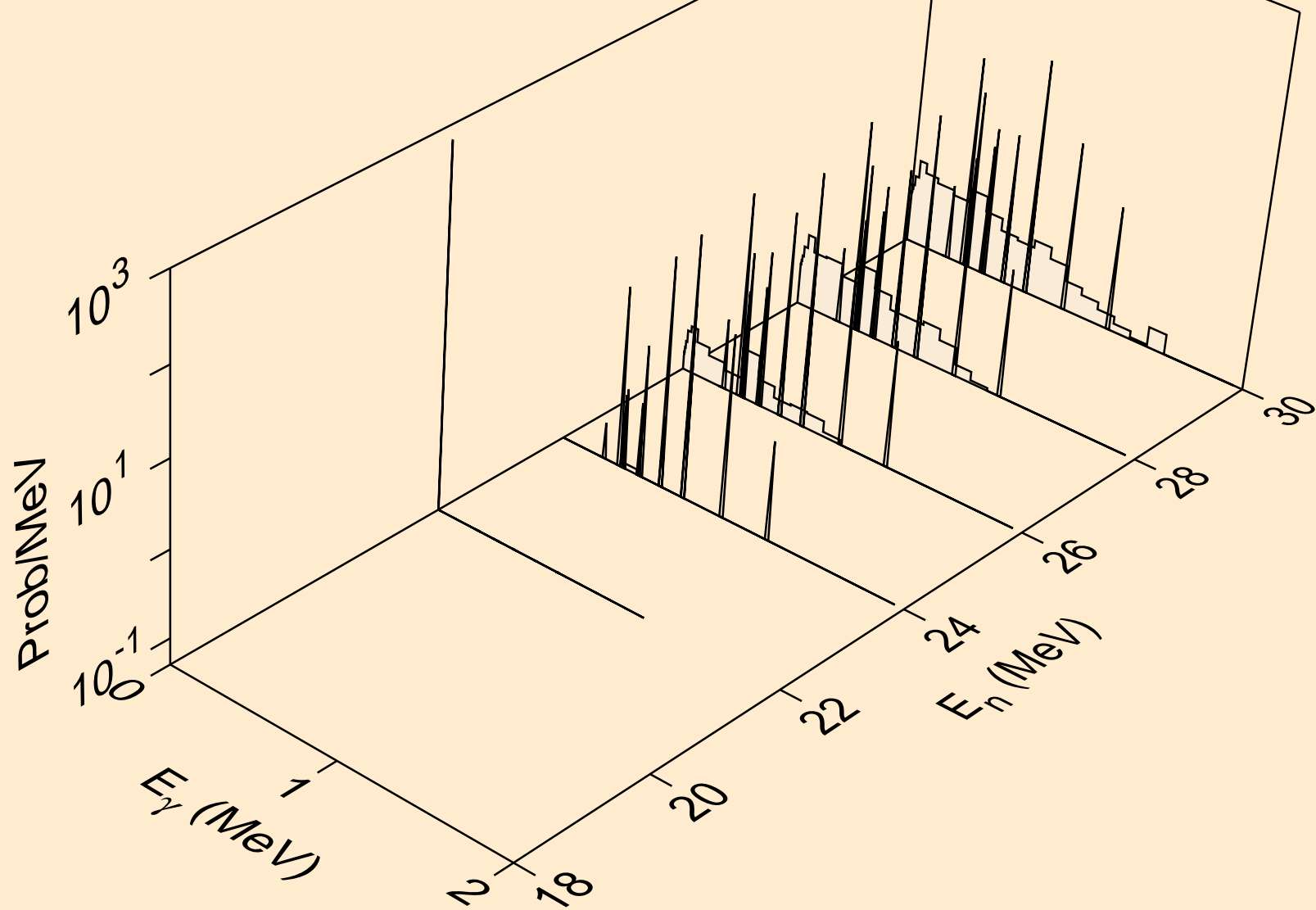
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Photon emission for (n,n\*)2a



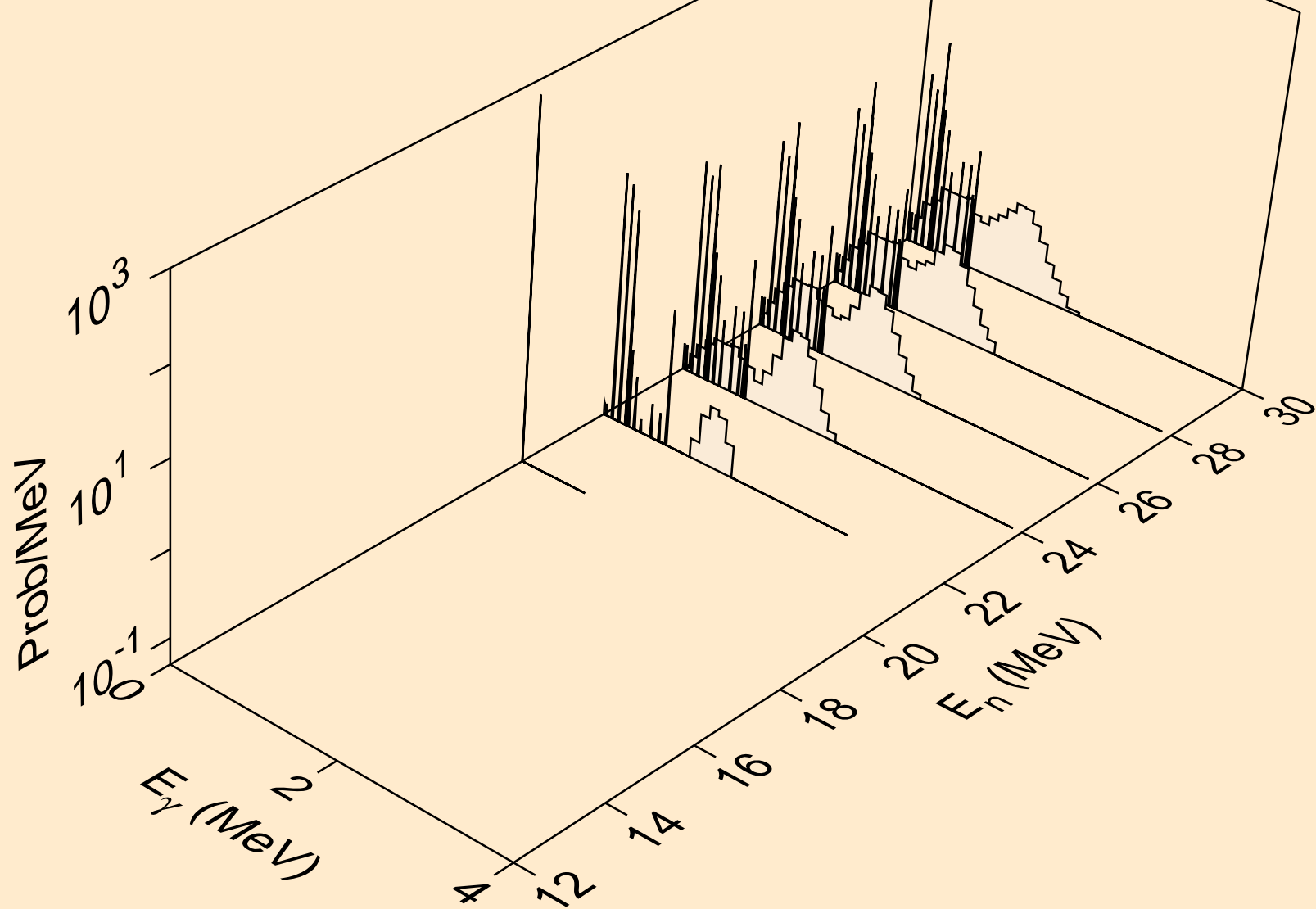
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Photon emission for (n,n\*)d



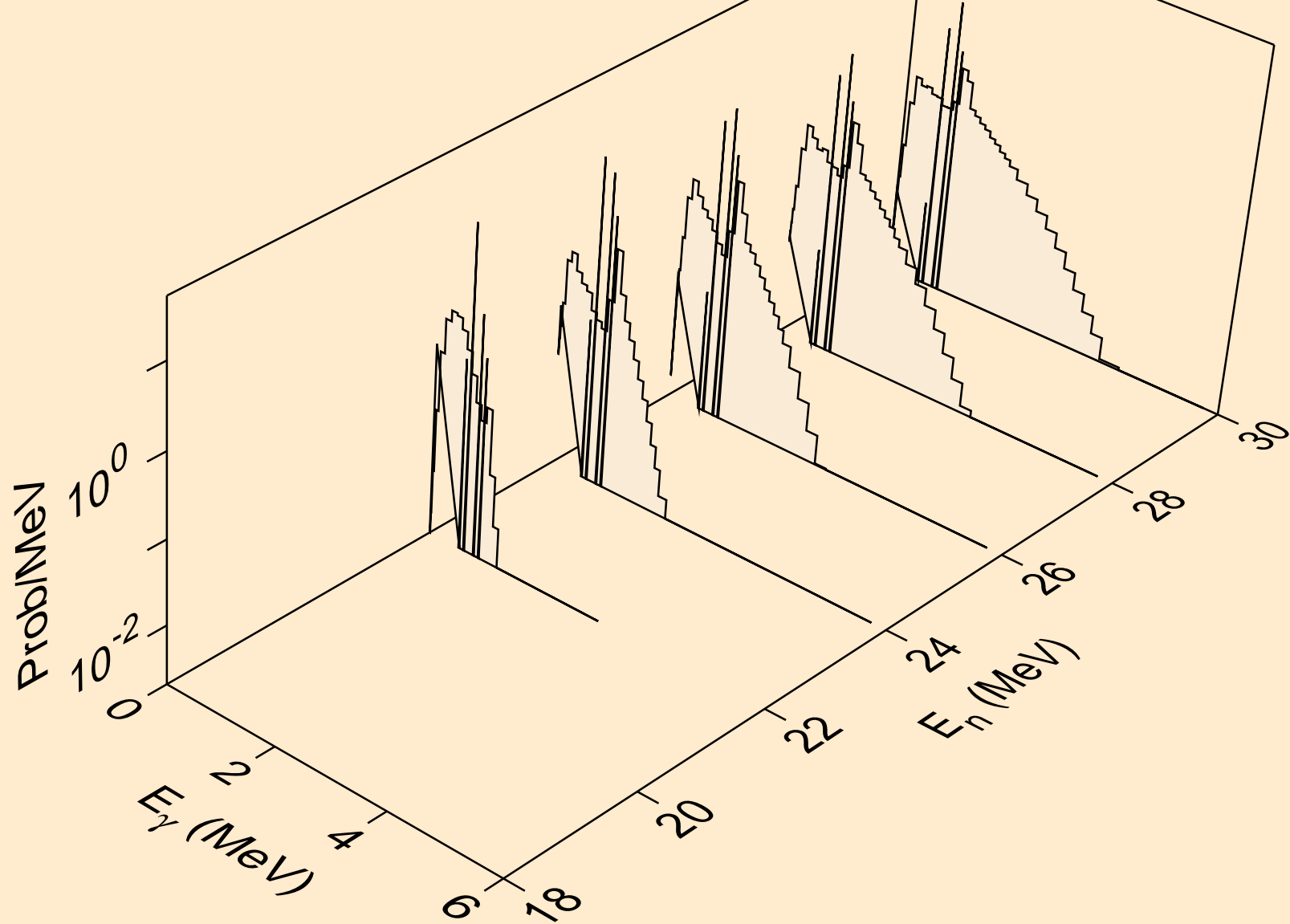
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Photon emission for (n,n\*)t



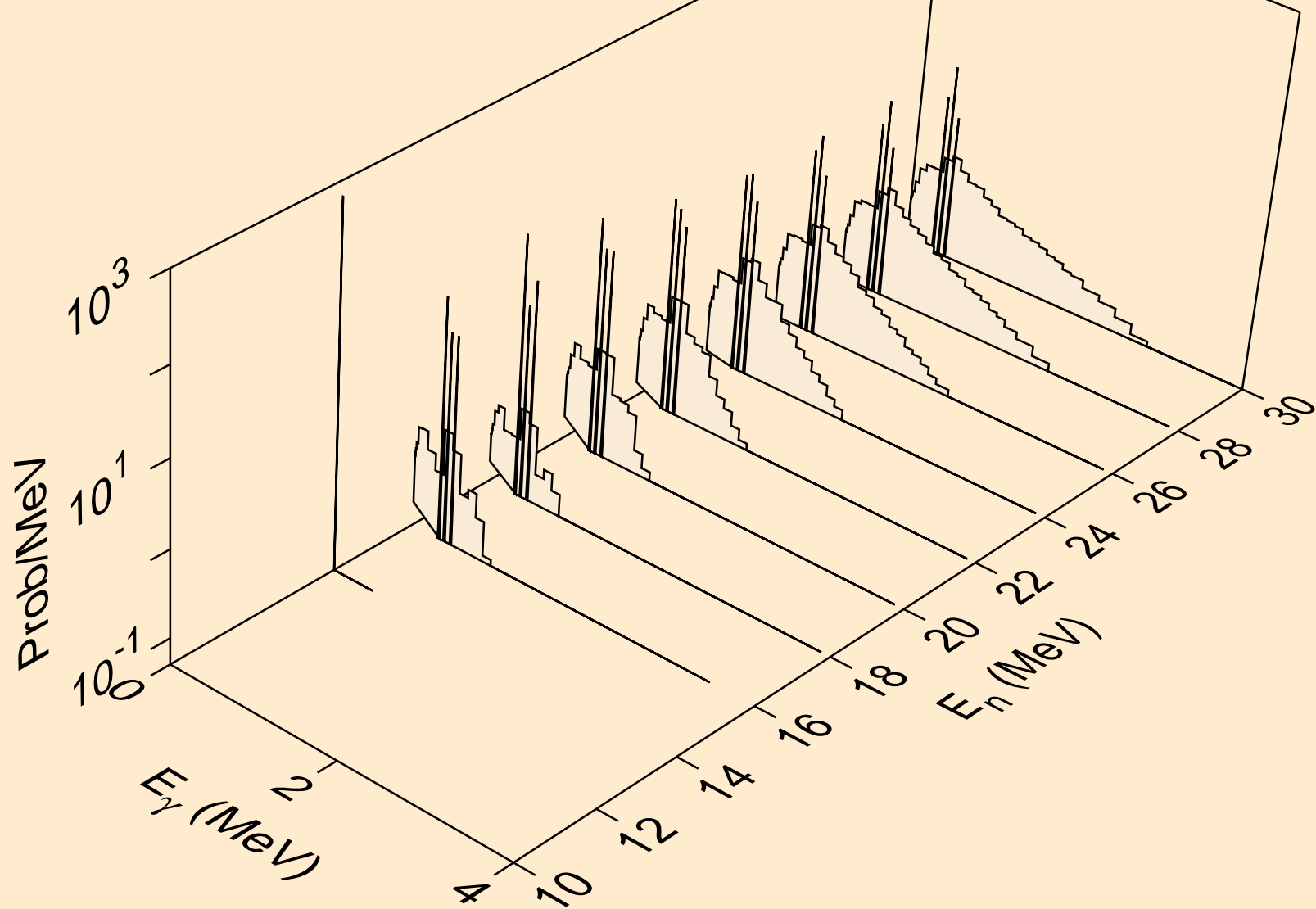
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

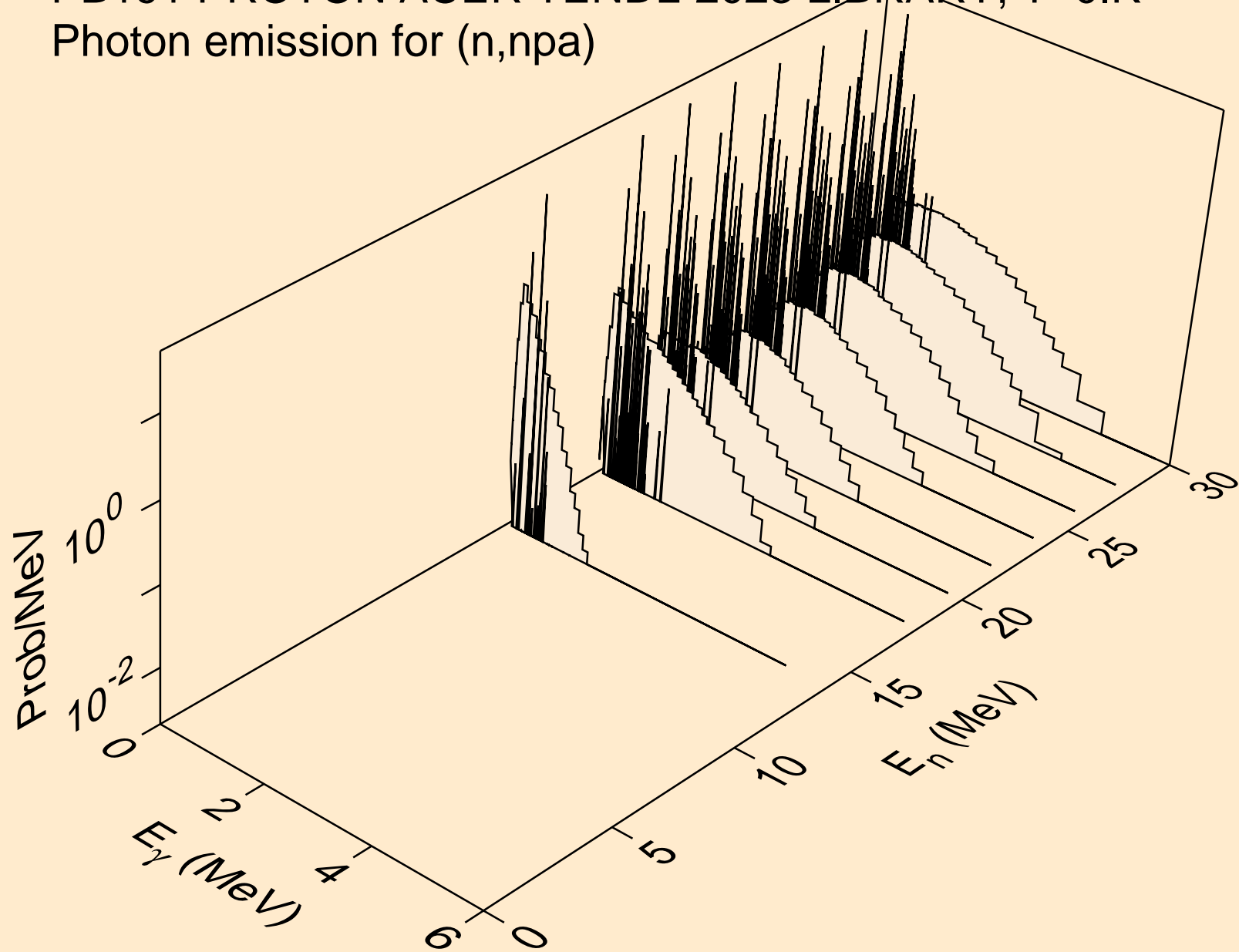


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Photon emission for (n,n2p)

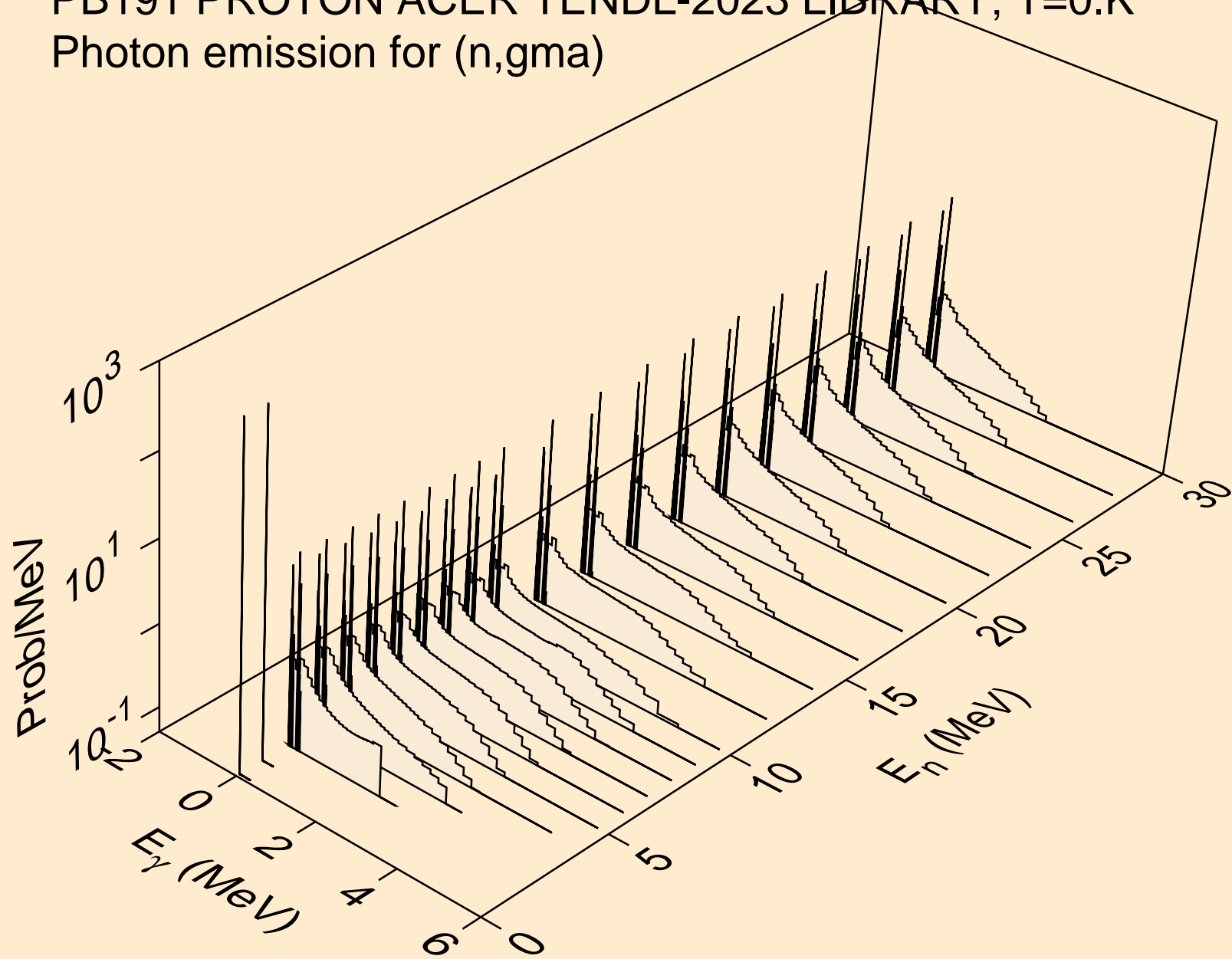




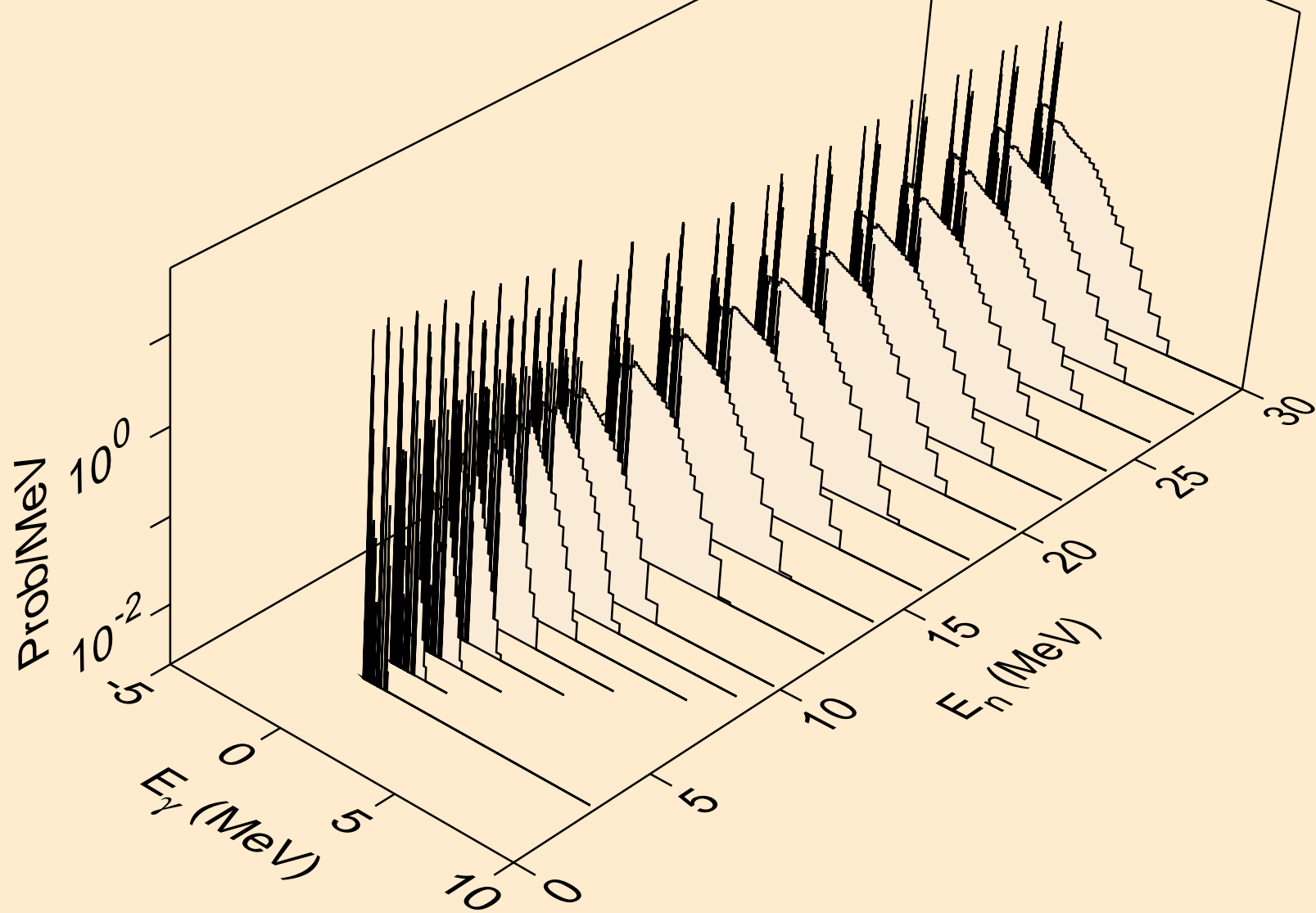
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Photon emission for (n,npa)



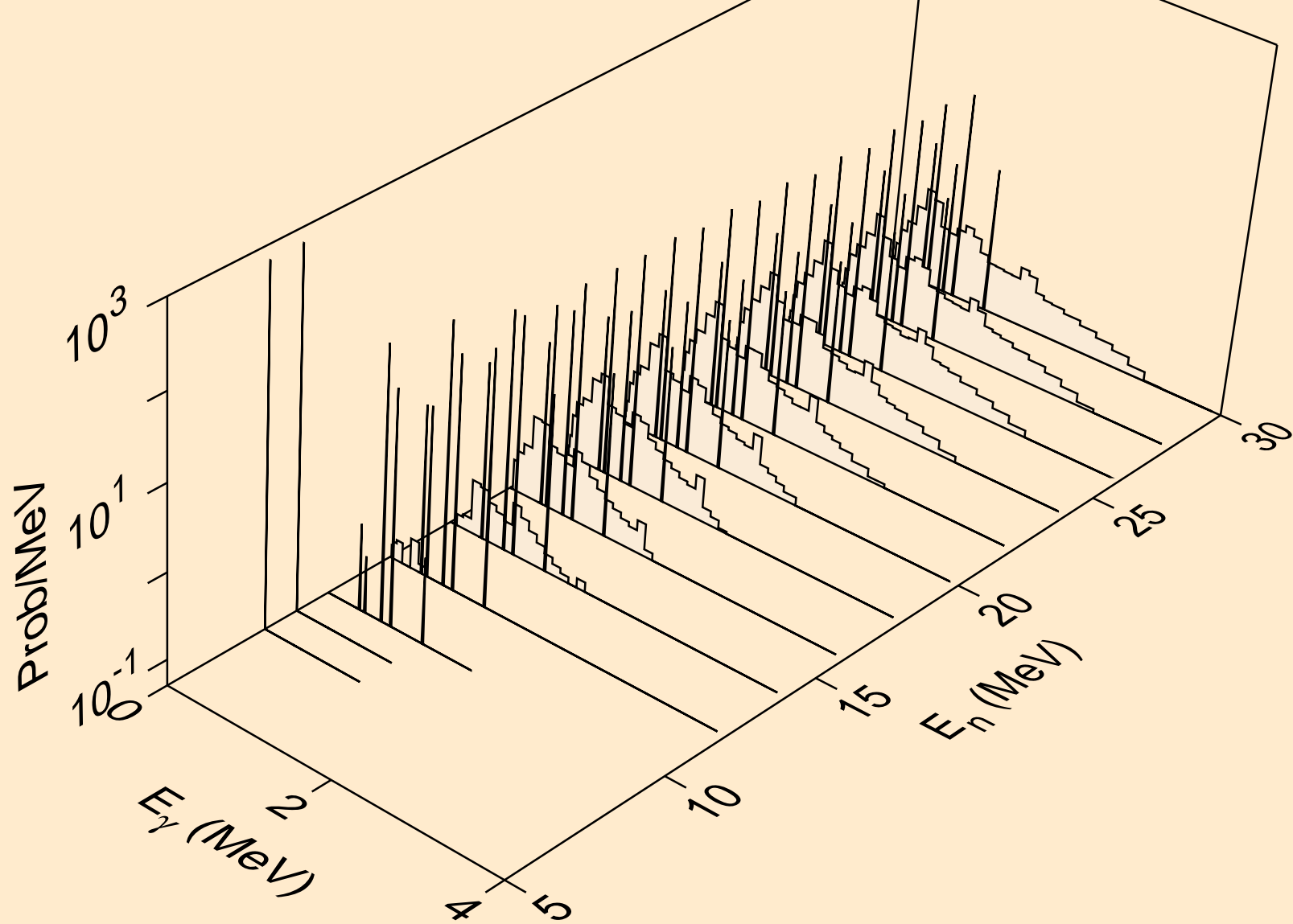
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Photon emission for (n,gma)



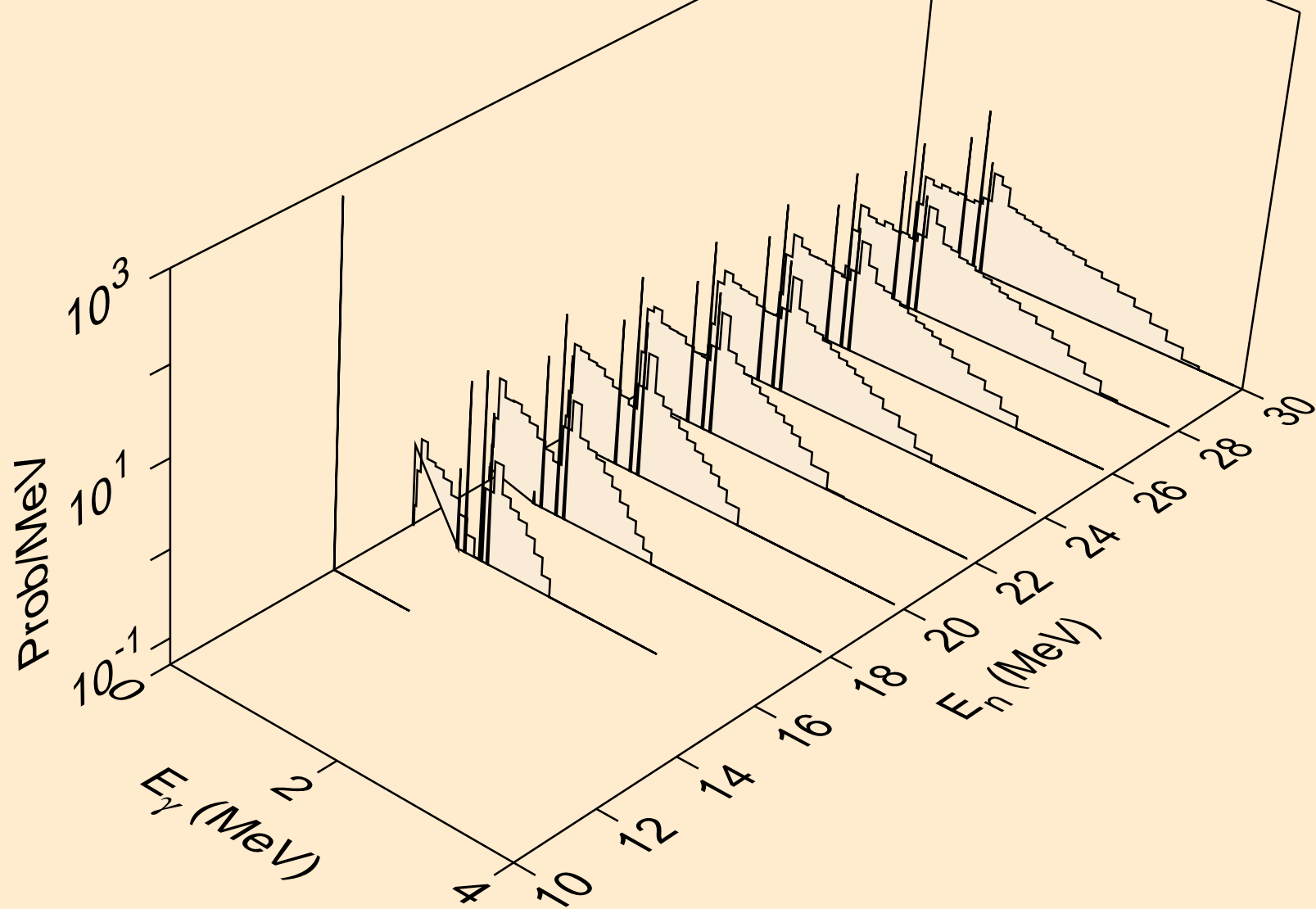
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Photon emission for inelastic



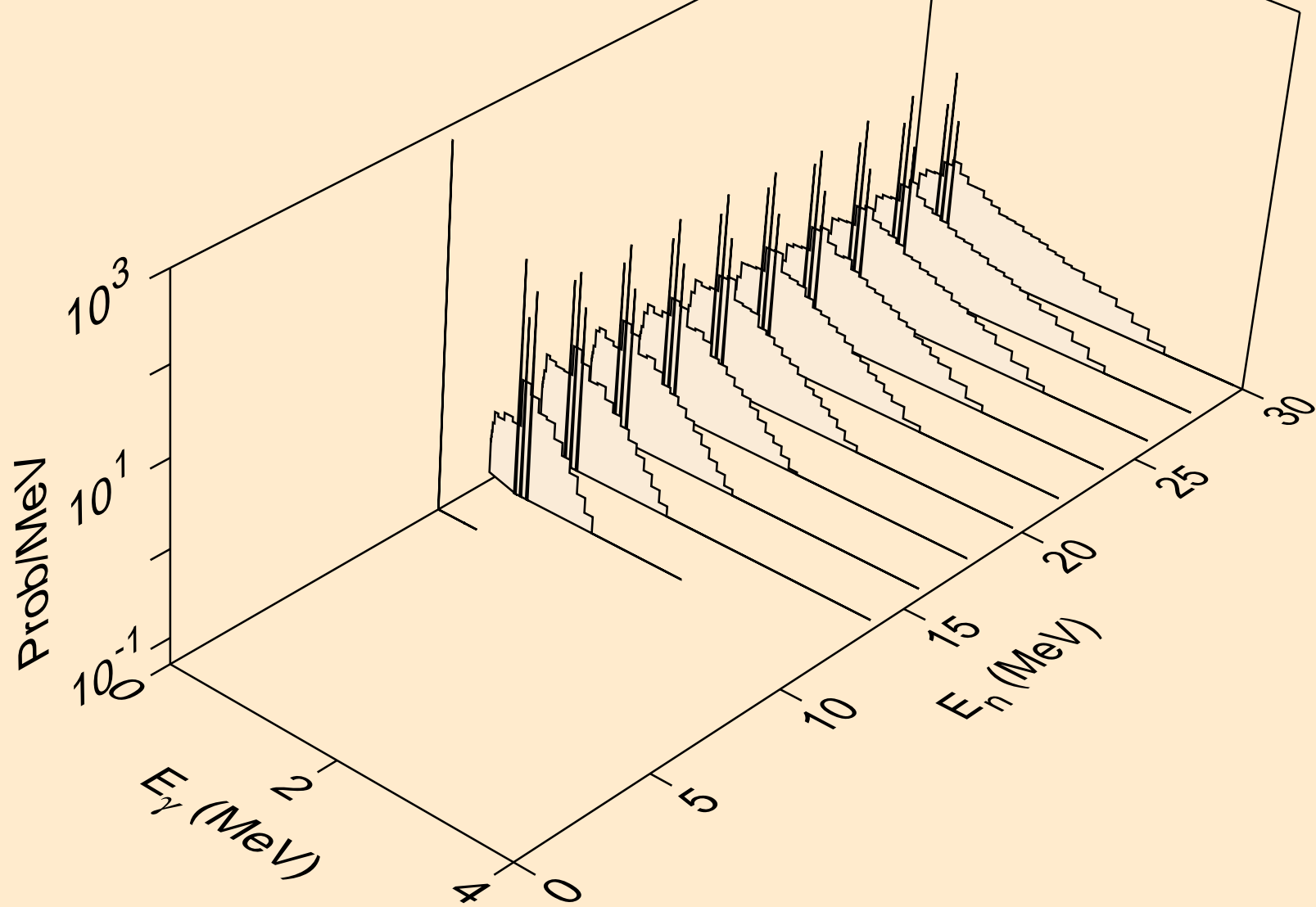
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Photon emission for (n,d)



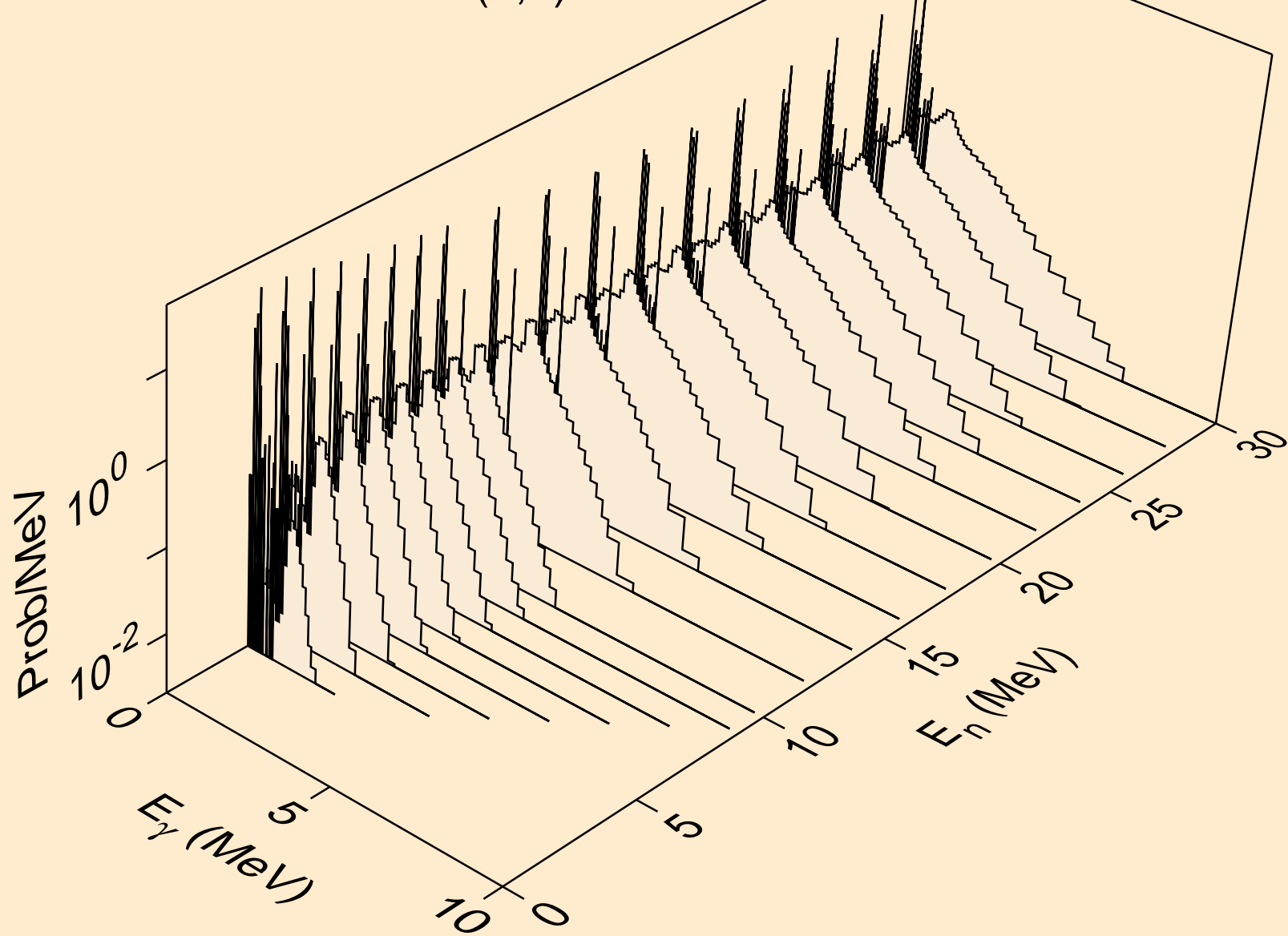
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Photon emission for (n,t)



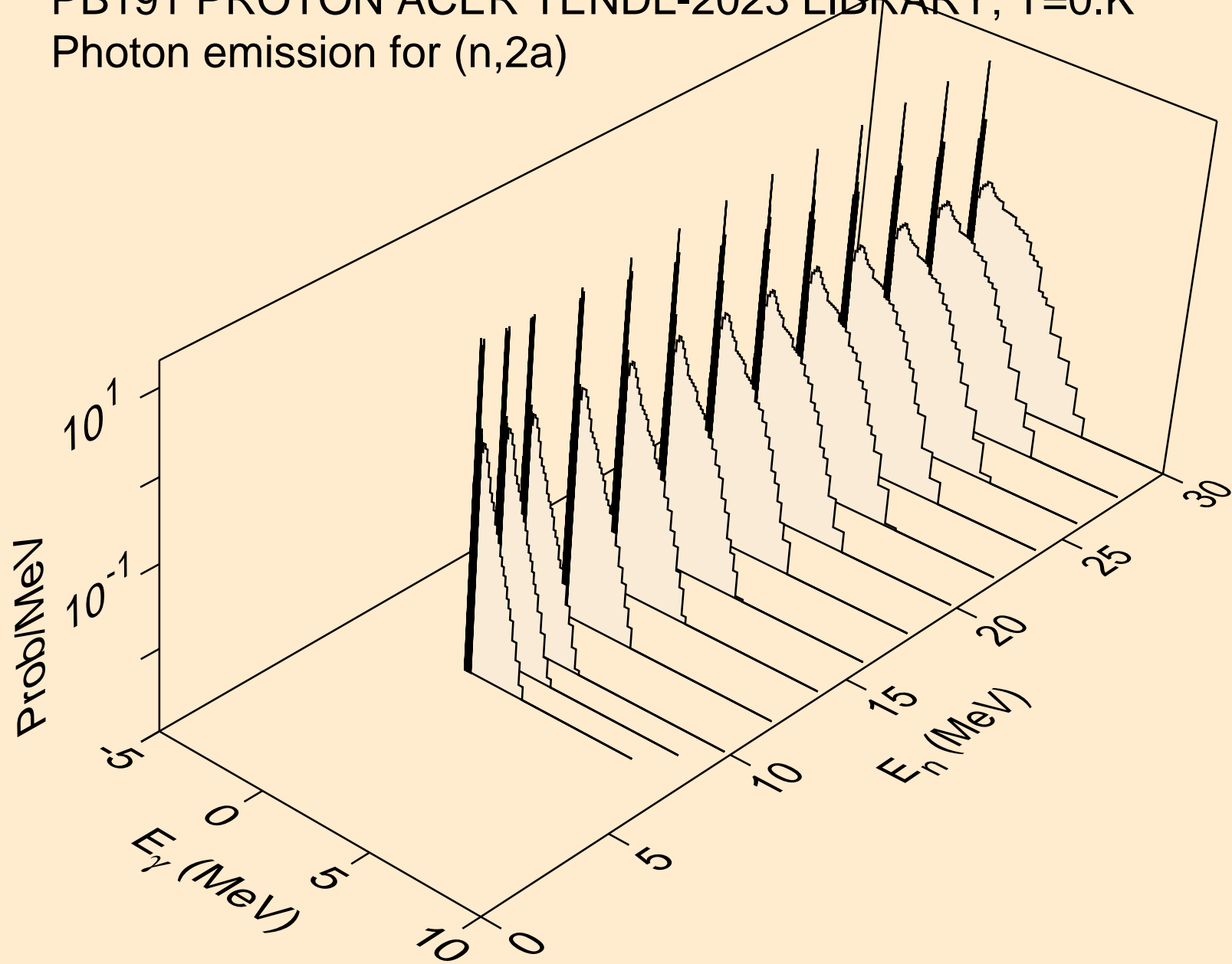
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)

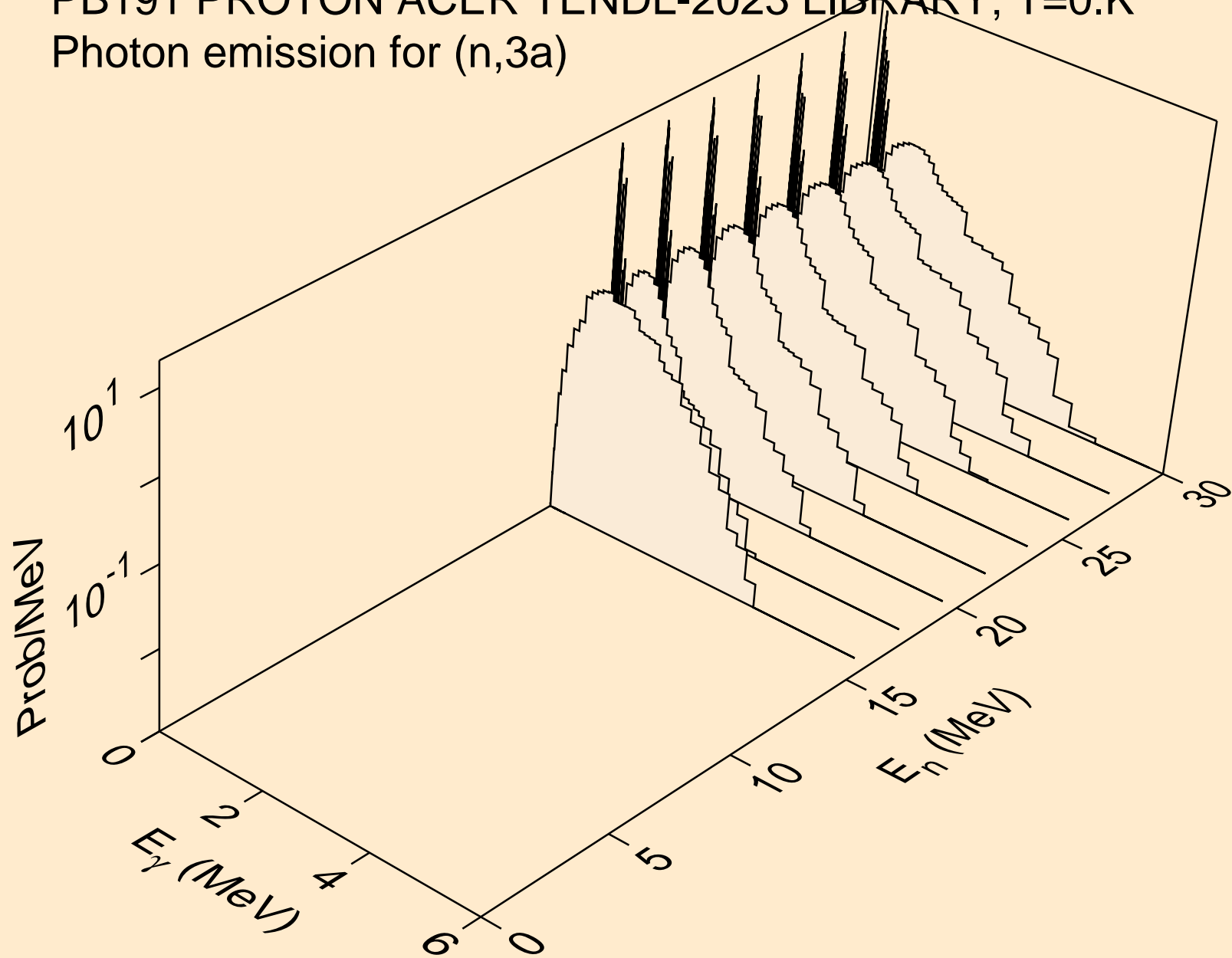


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Photon emission for (n,2a)

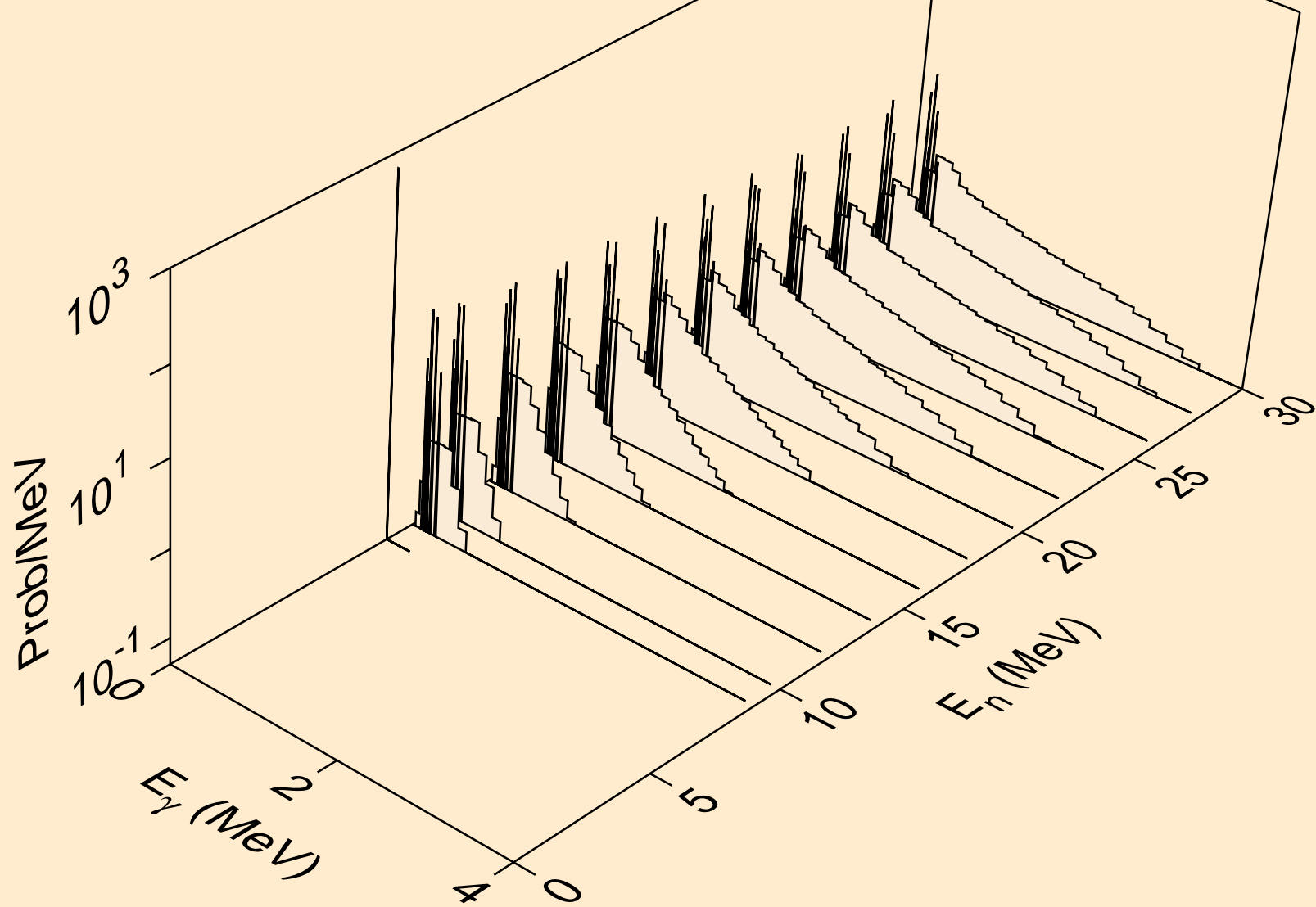




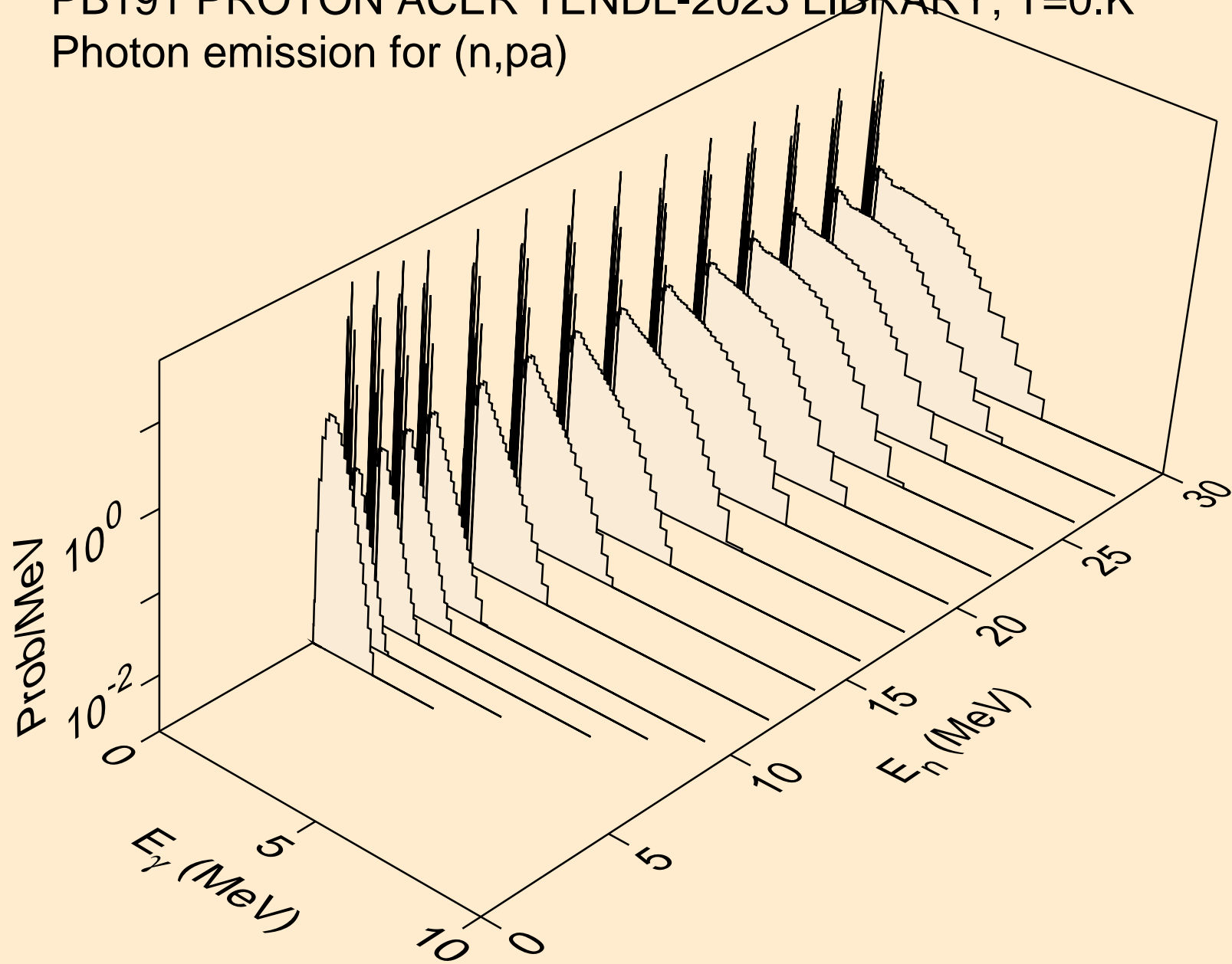
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Photon emission for (n,3a)



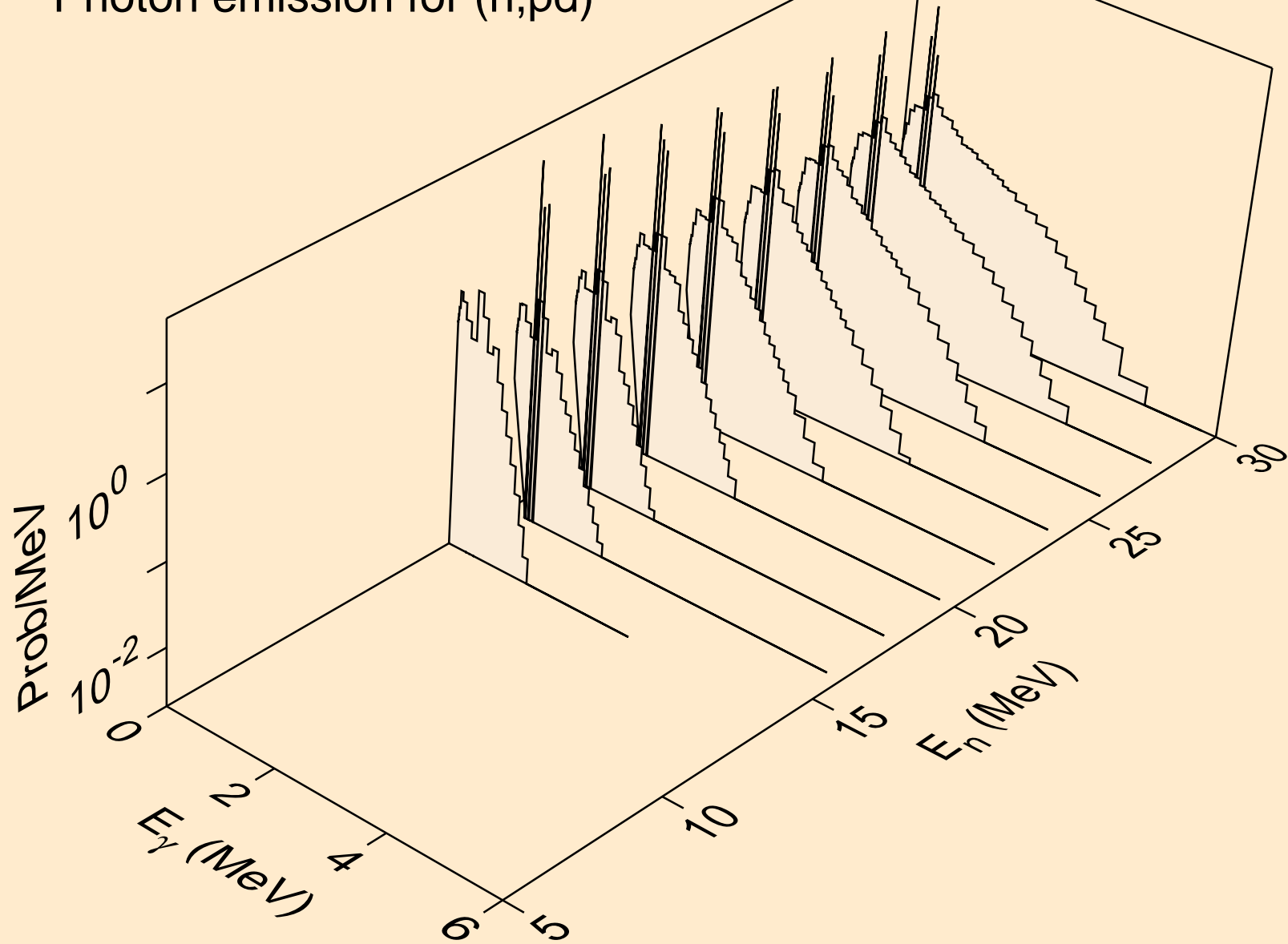
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Photon emission for (n,2p)



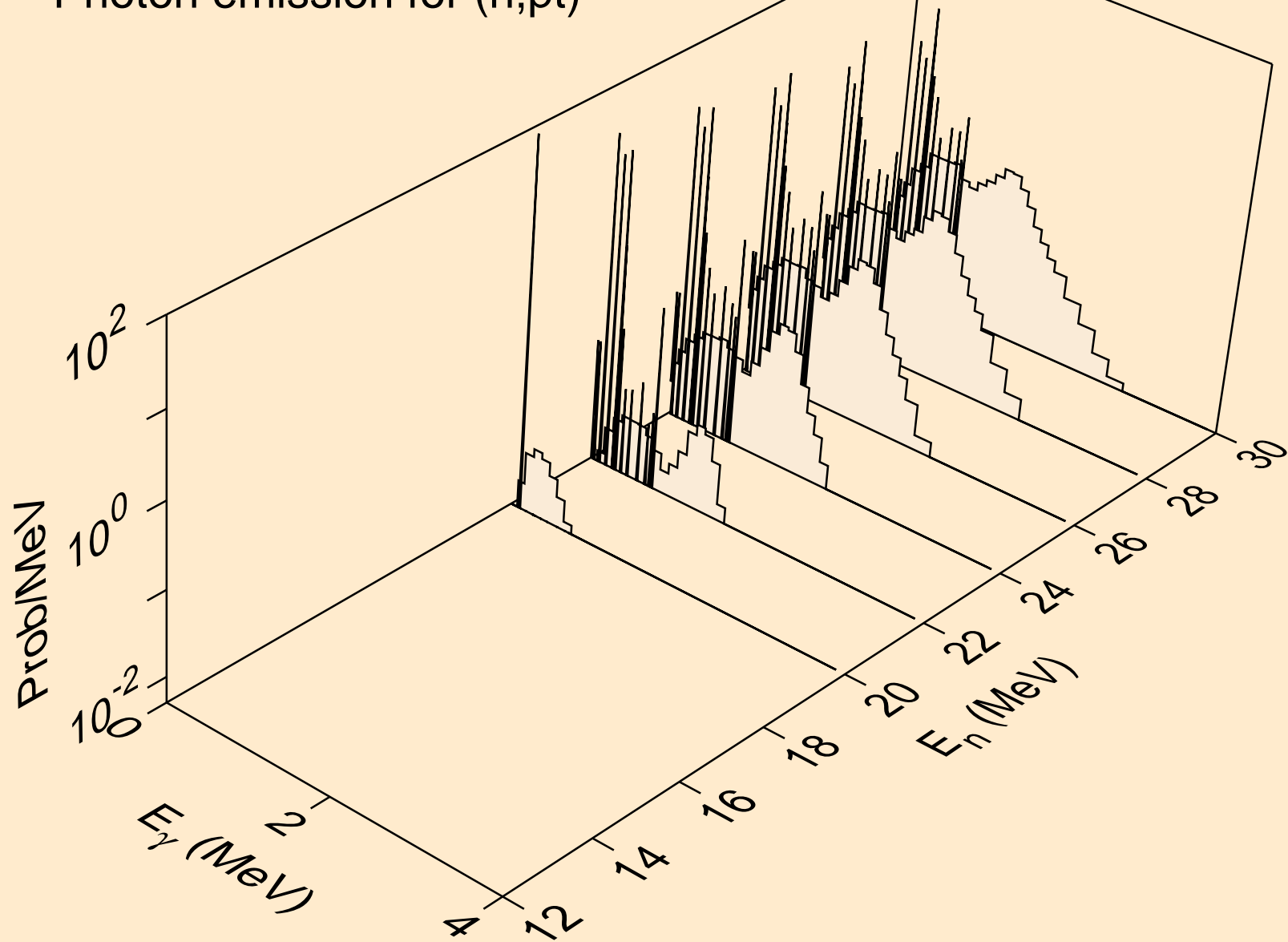
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Photon emission for (n,pa)



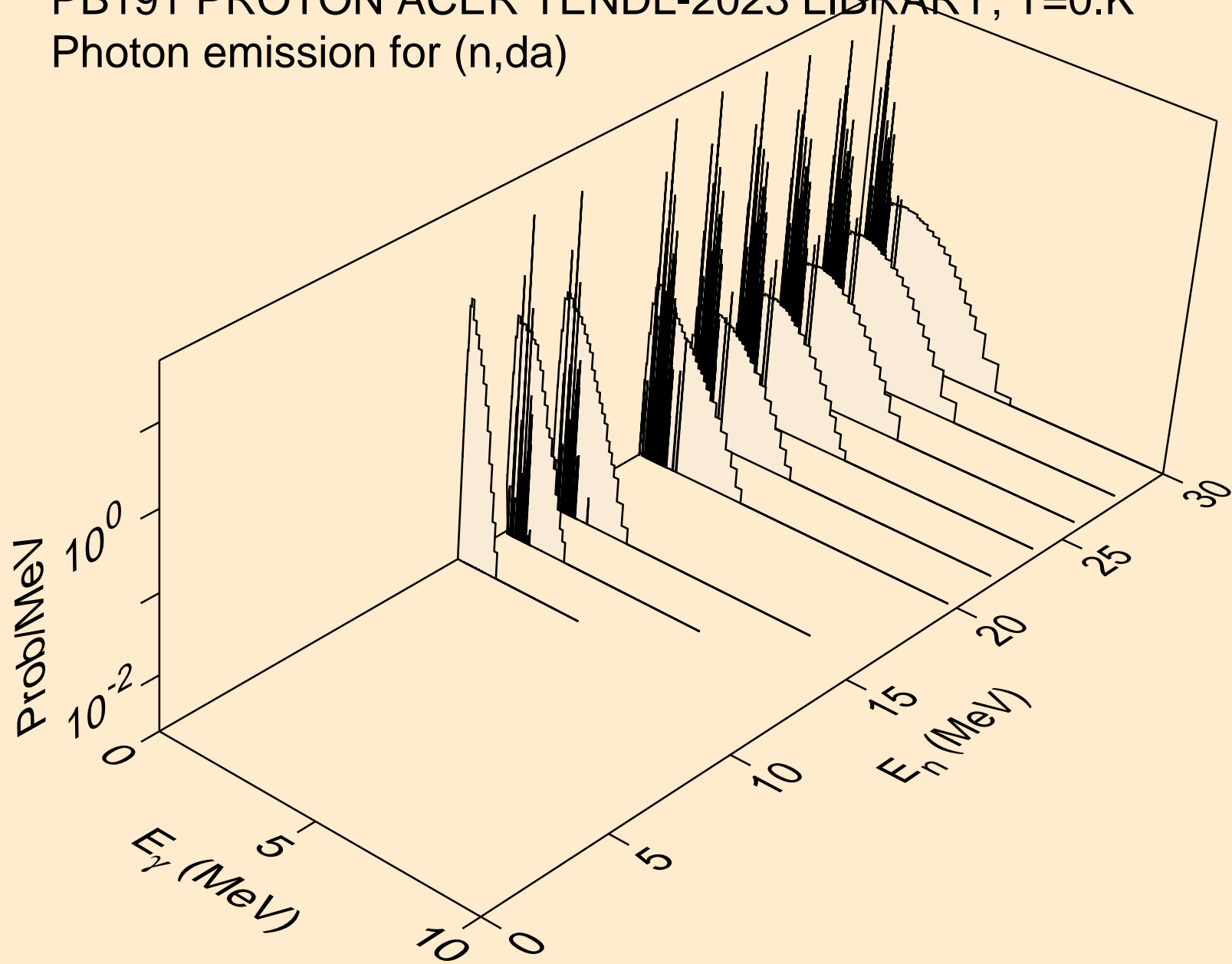
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Photon emission for (n,pd)



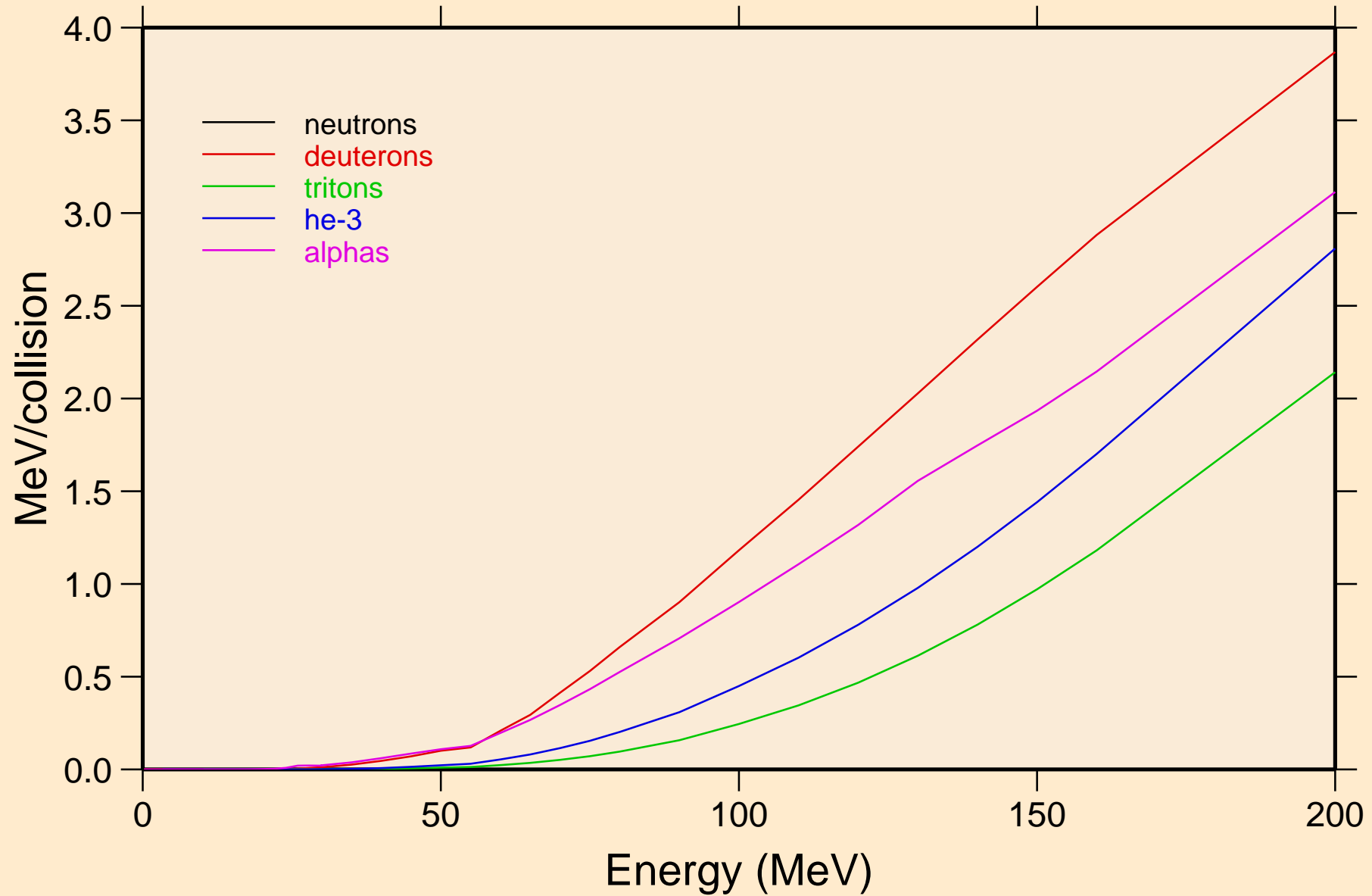
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Photon emission for (n,pt)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

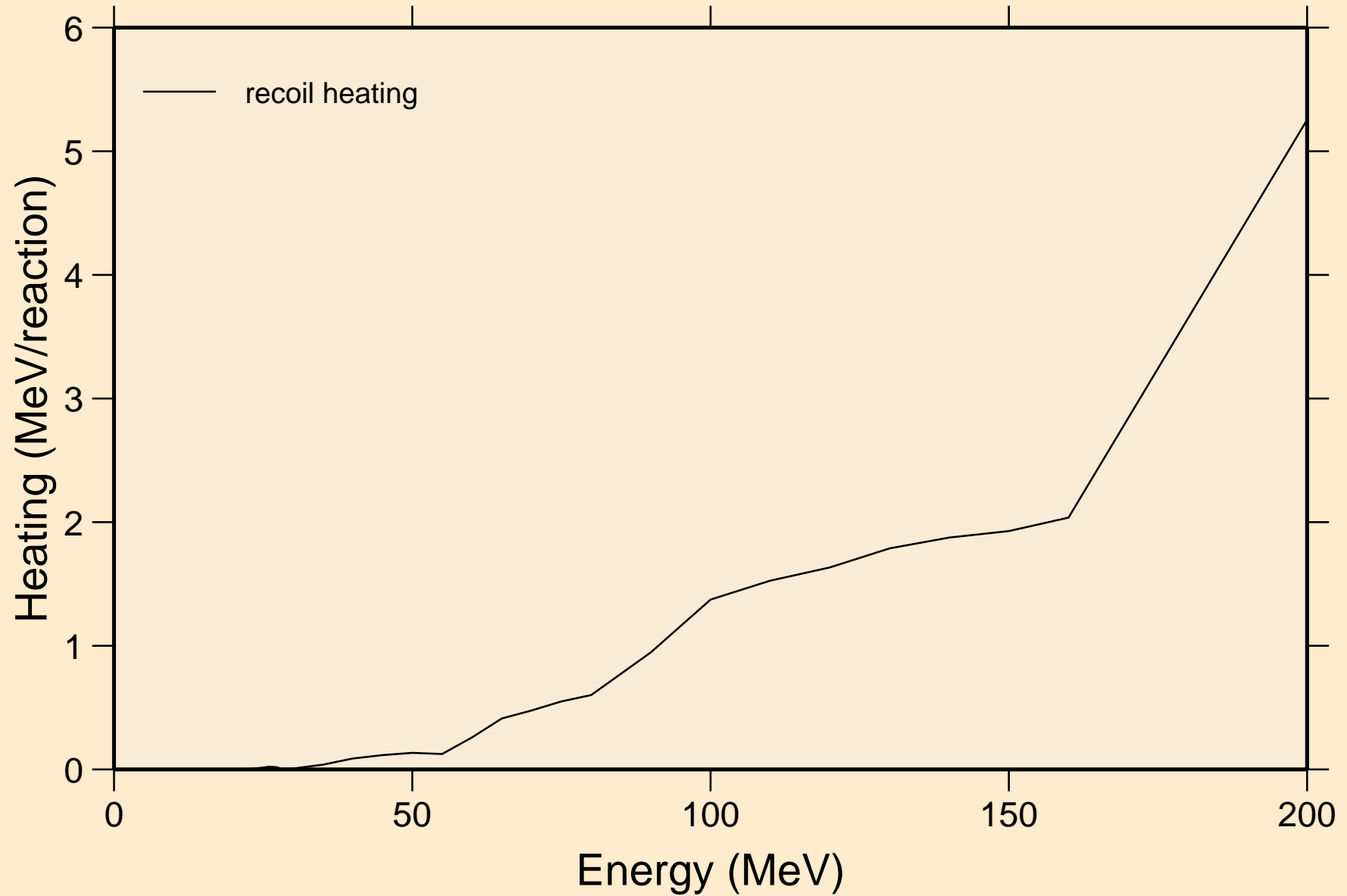


PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions



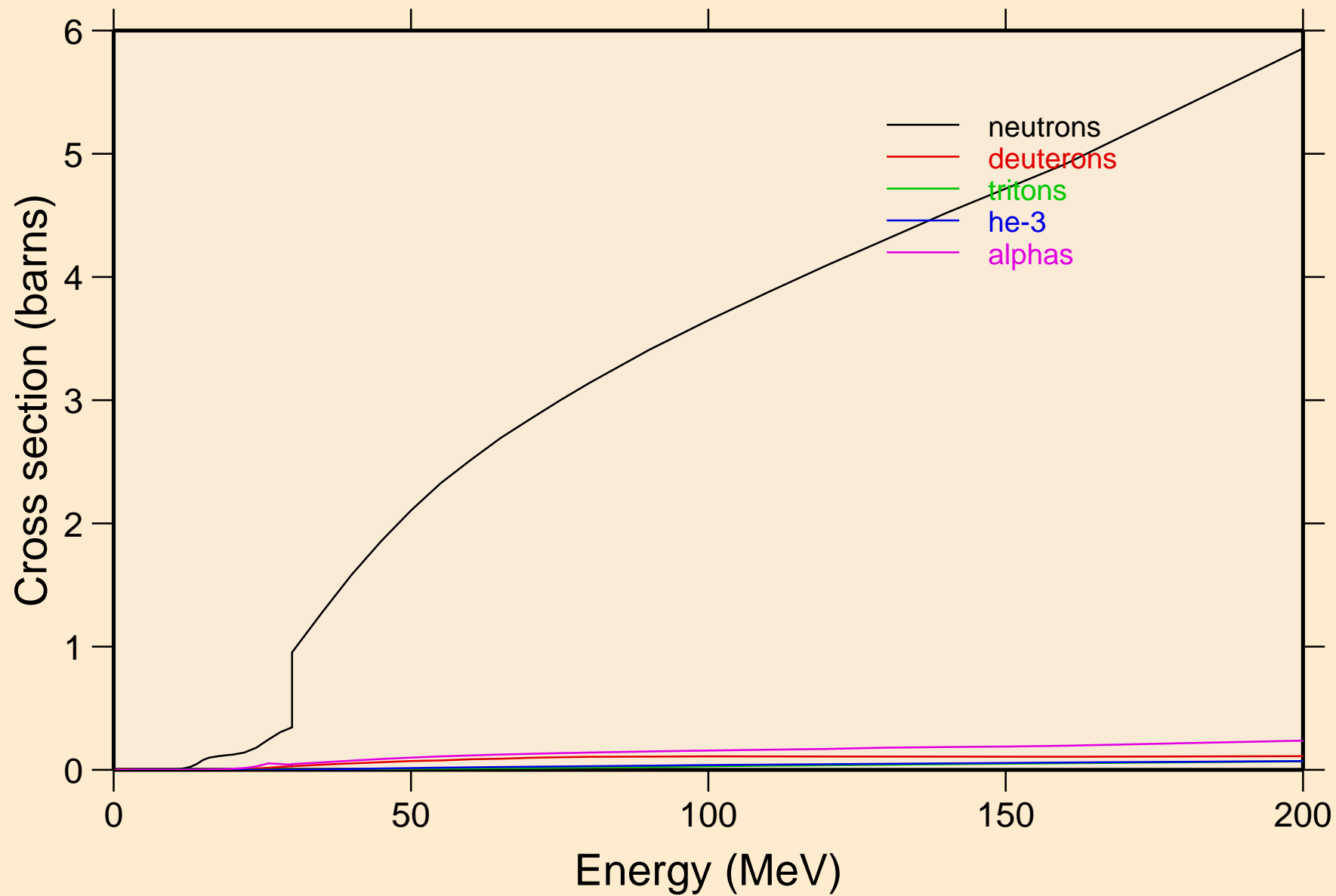
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## Recoil Heating

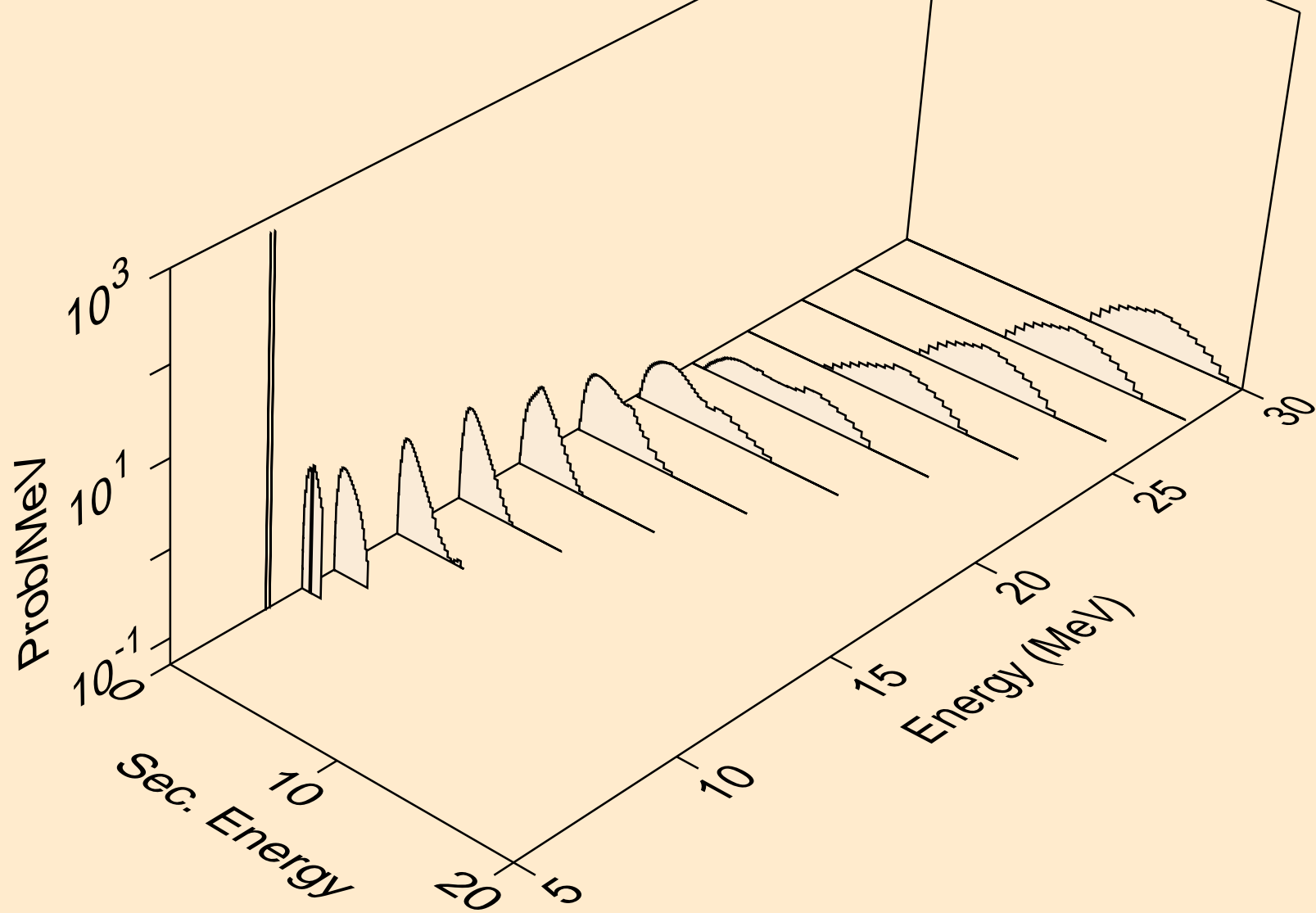




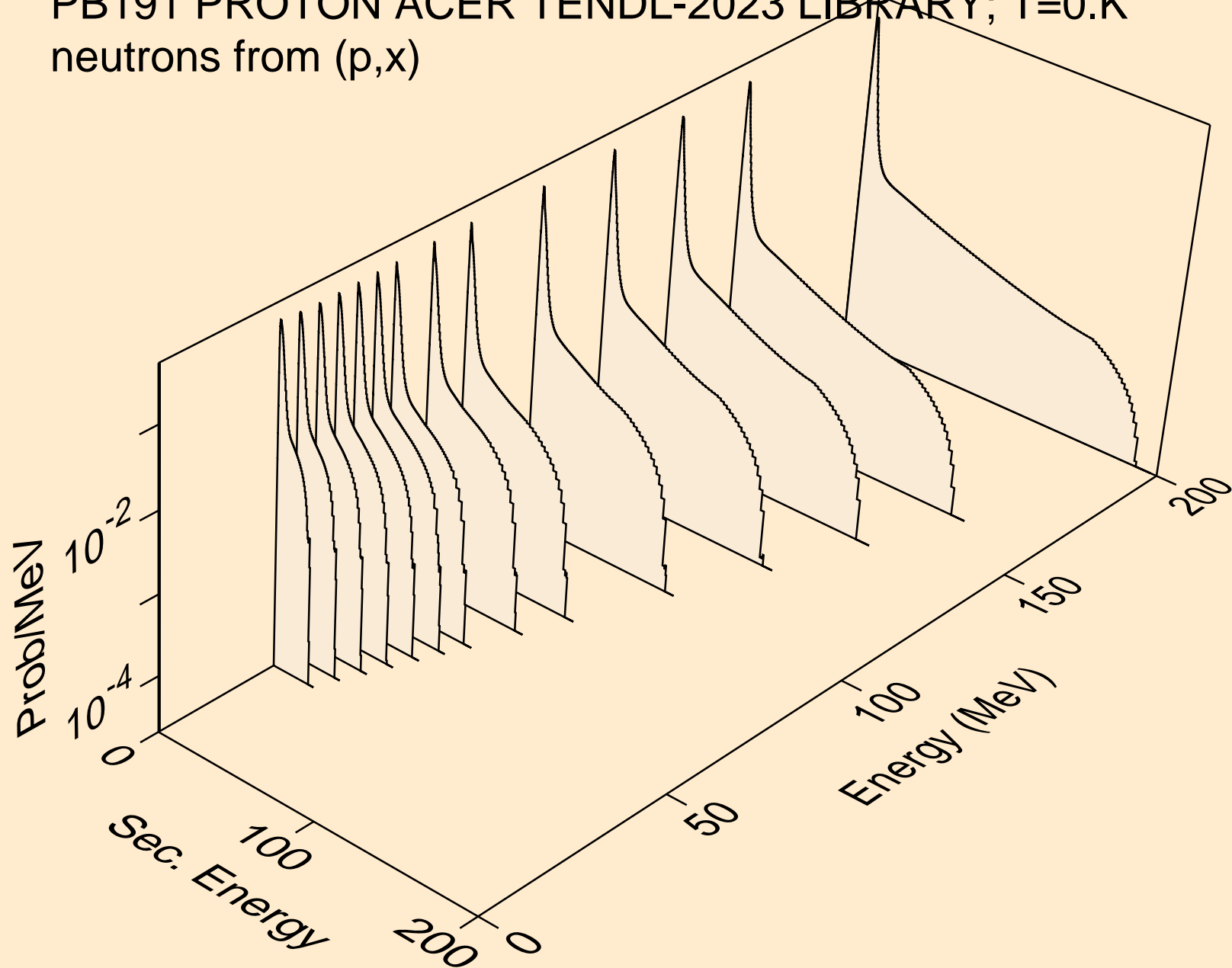
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Particle production cross sections



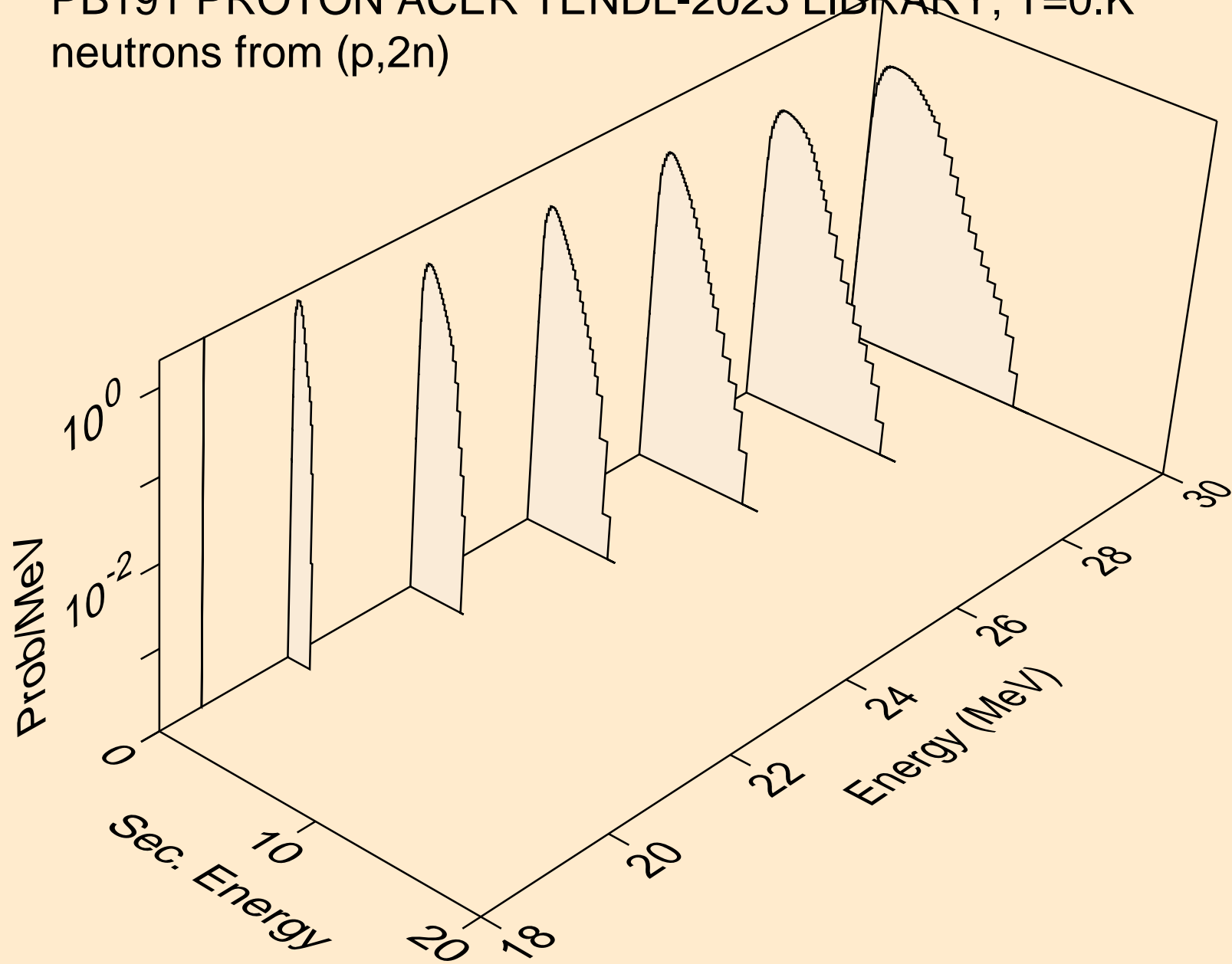
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neutrons from (p,n)



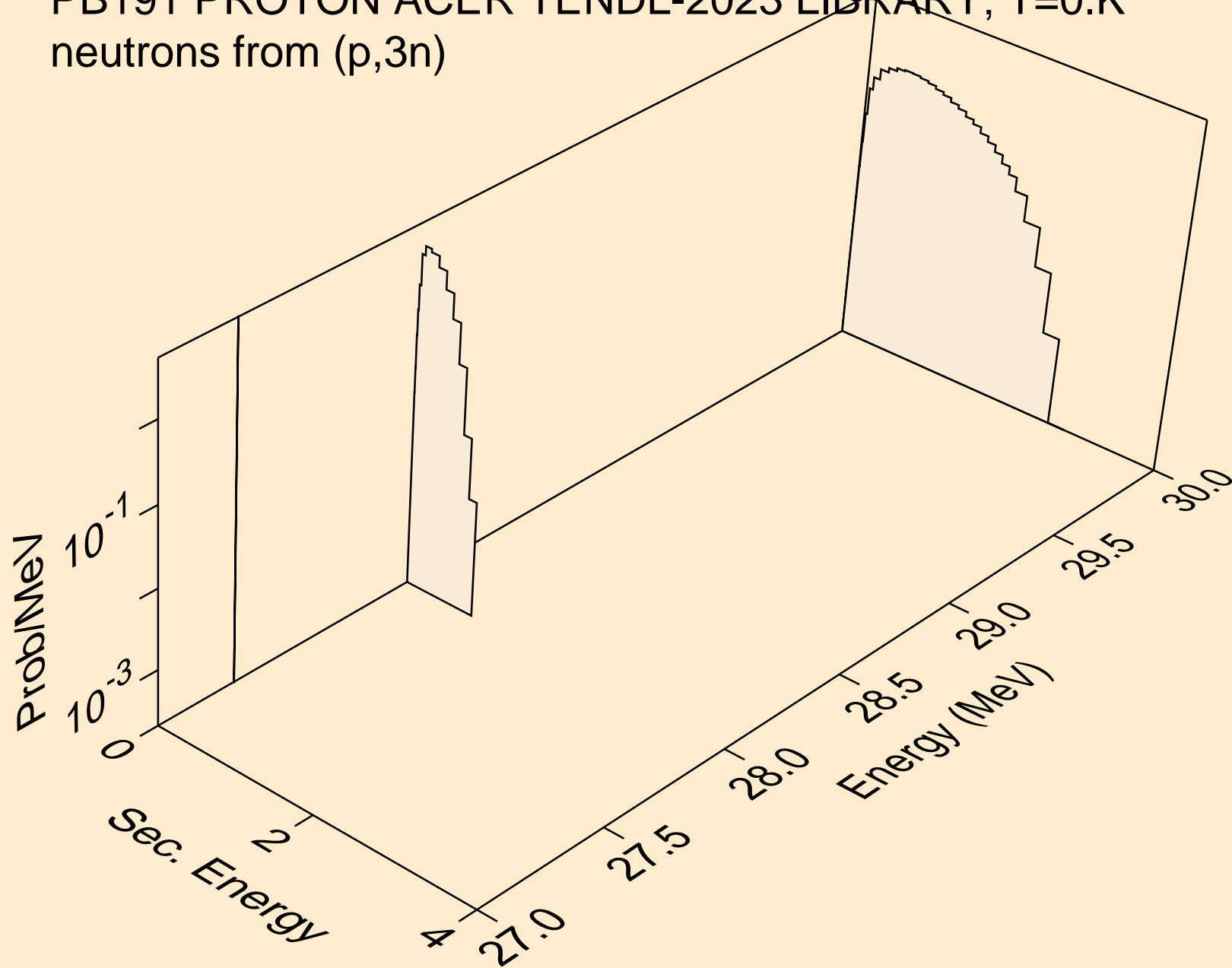
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neutrons from (p,x)



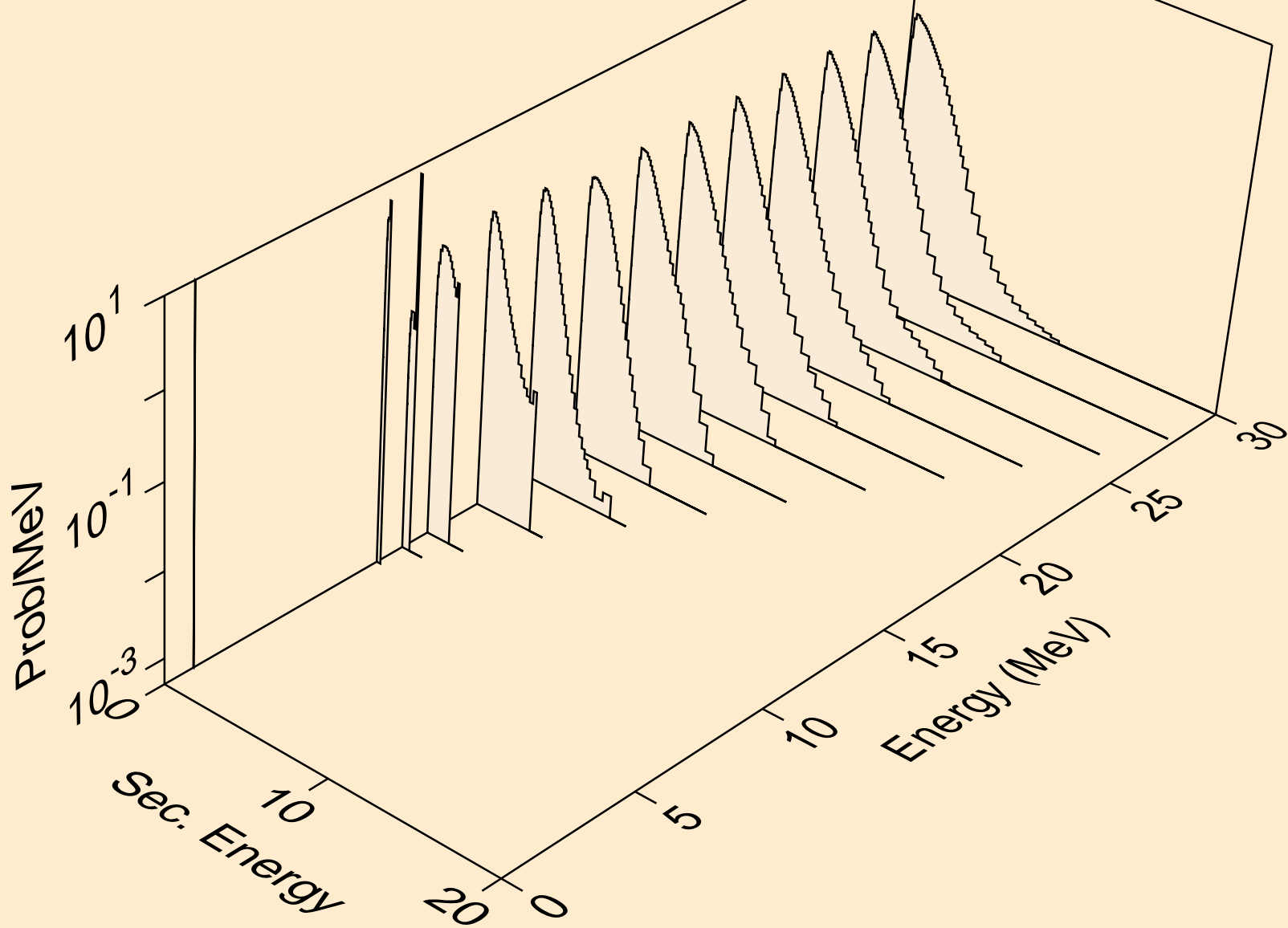
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neutrons from (p,2n)



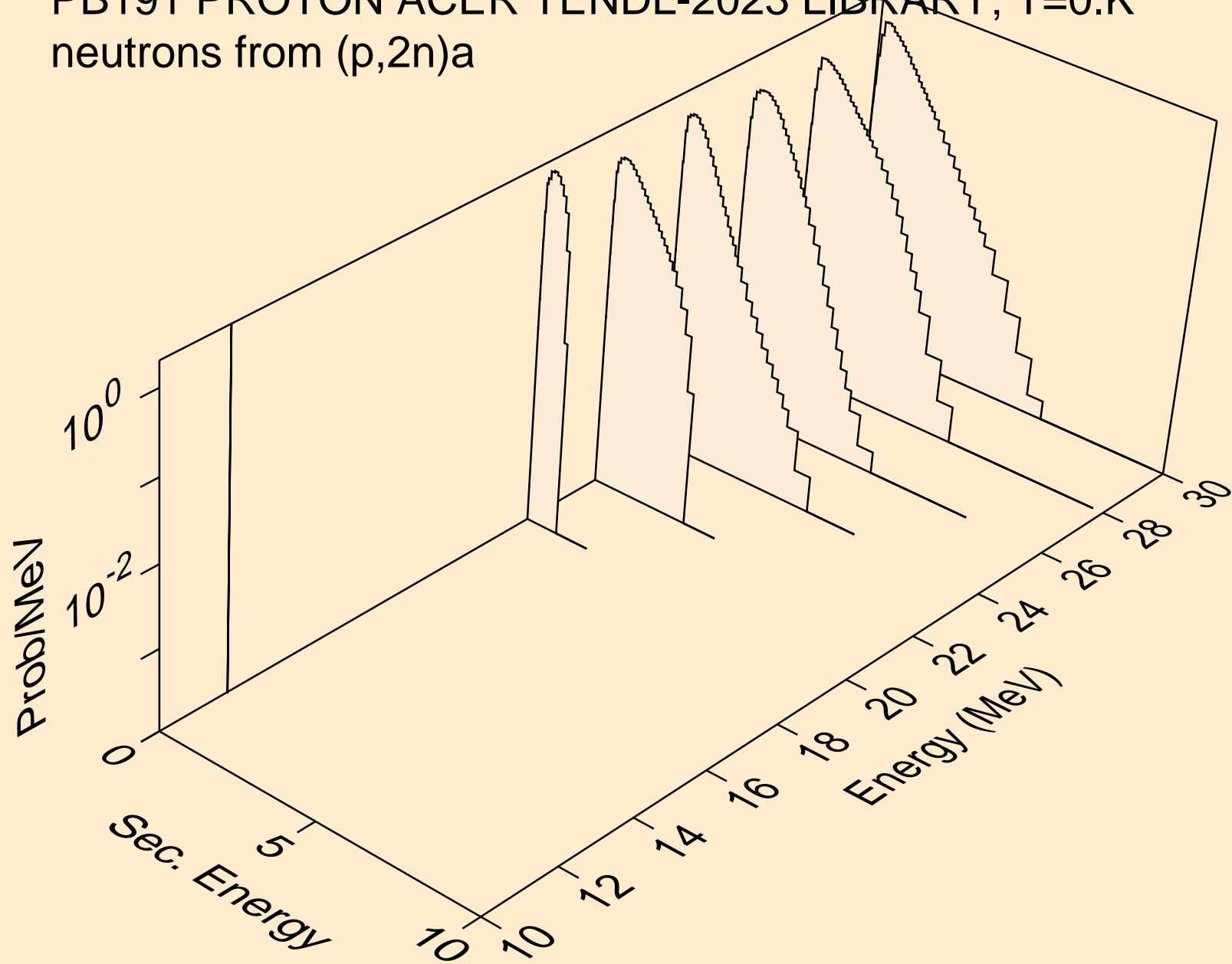
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neutrons from (p,3n)



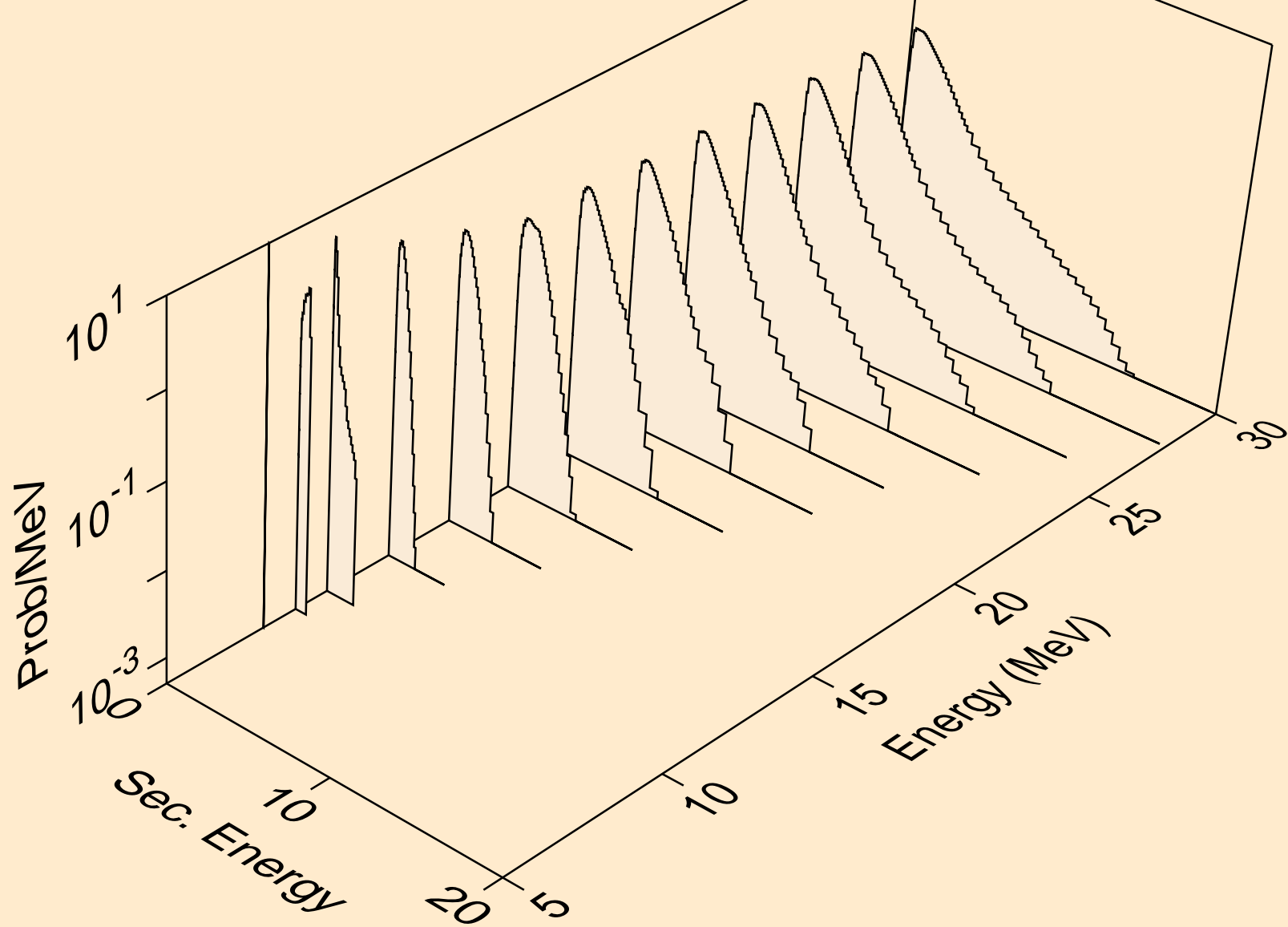
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neutrons from (p,n\*)a



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a

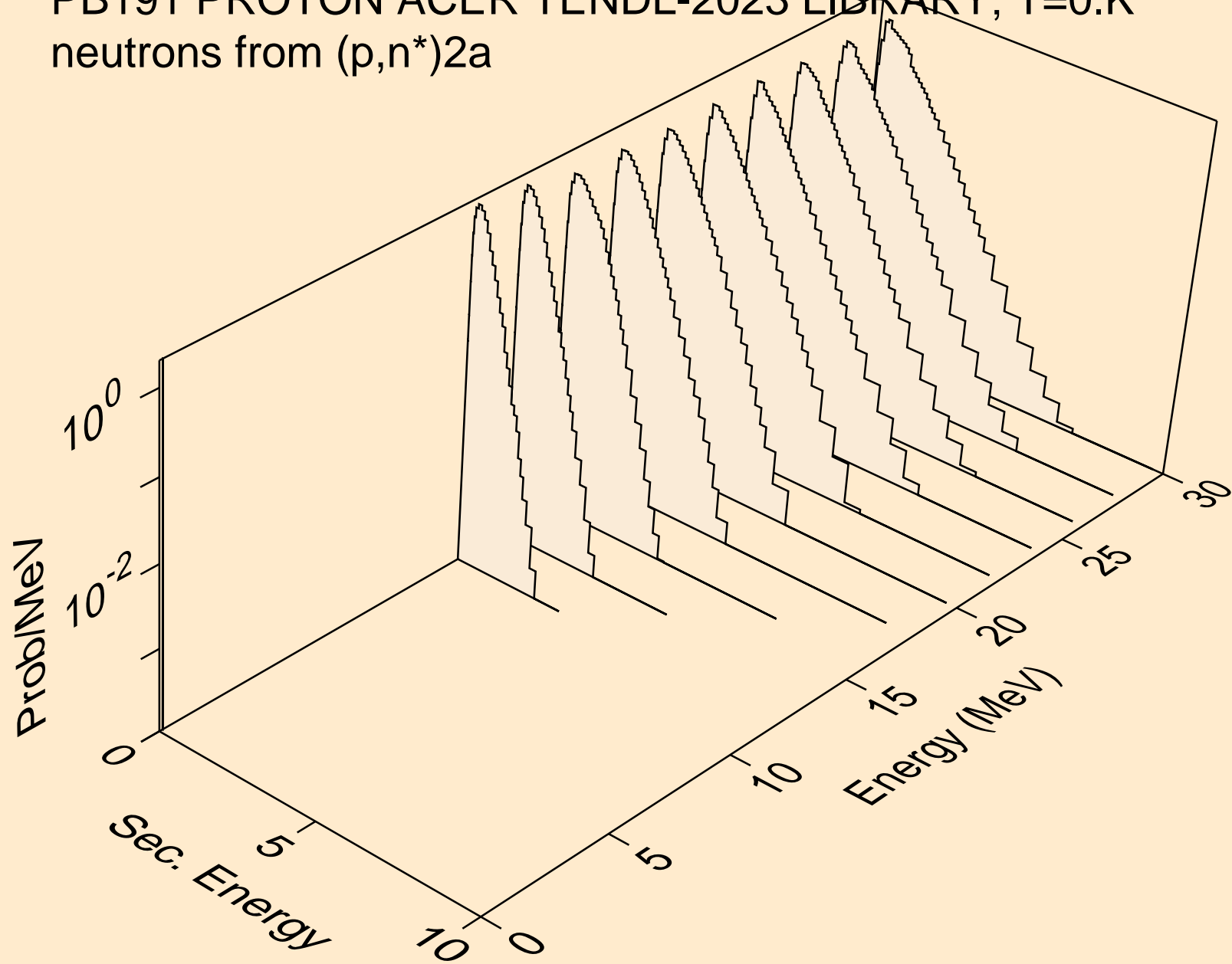


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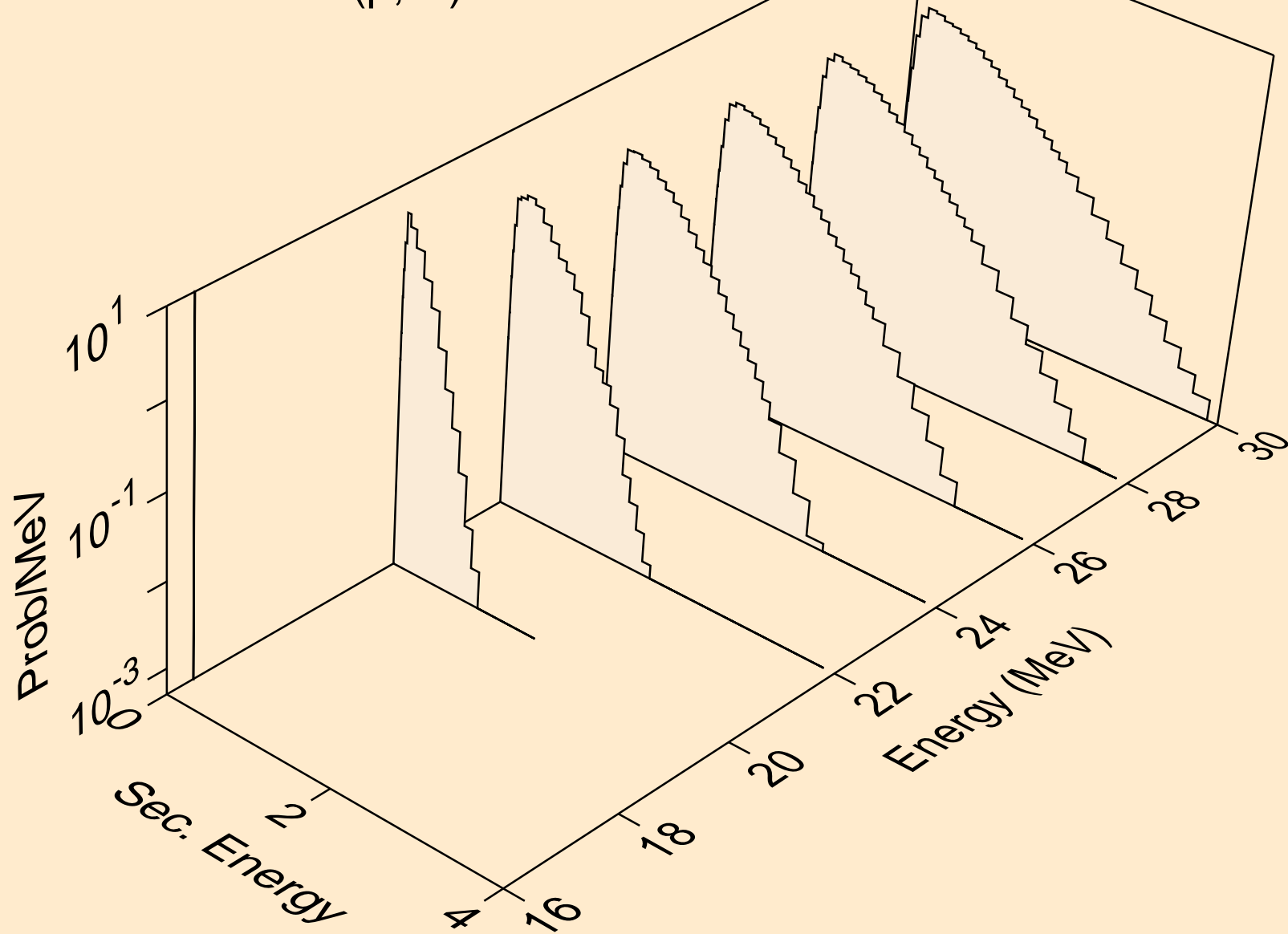




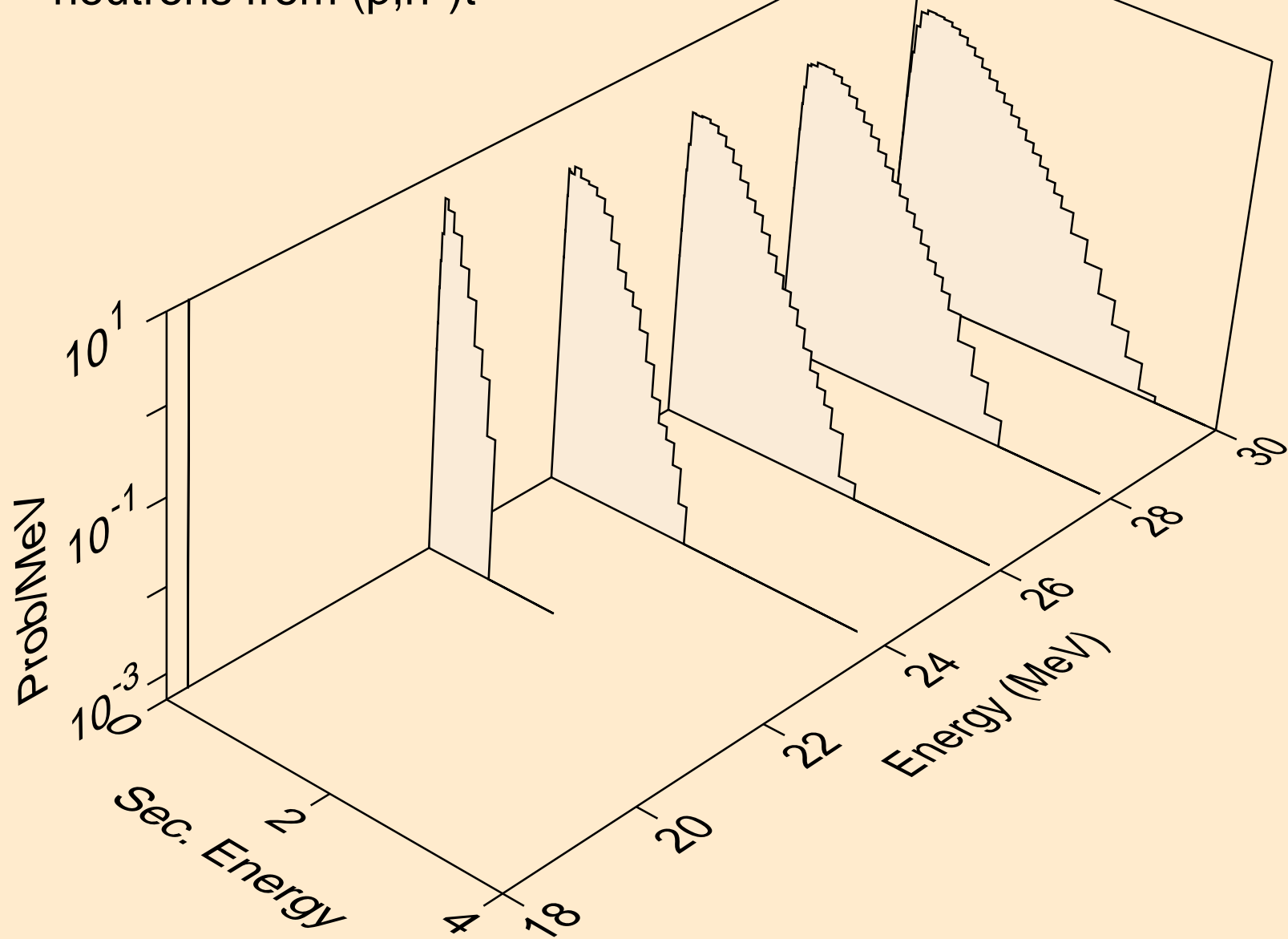
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neutrons from (p,n\*)2a



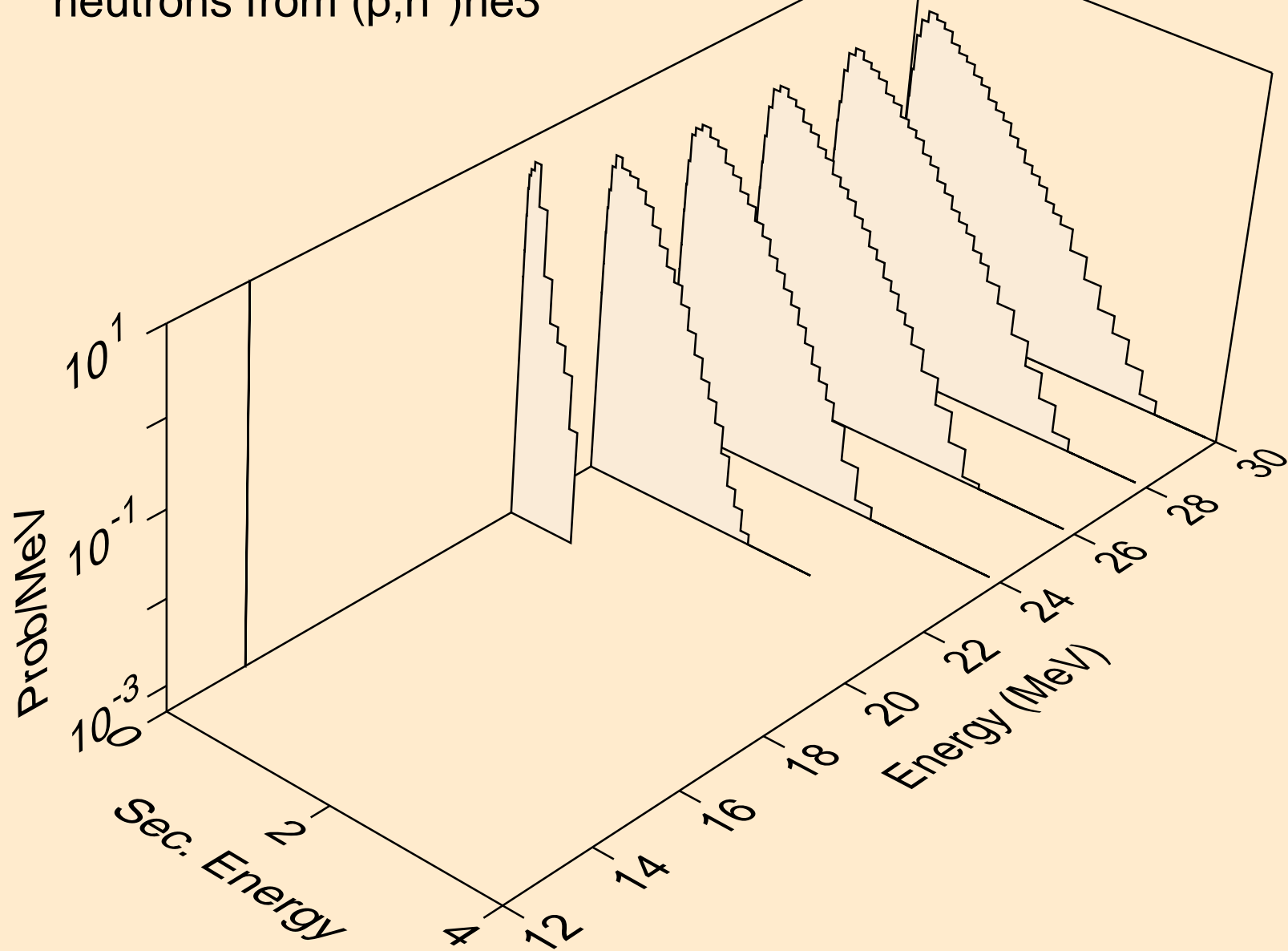
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neutrons from (p,n\*)d



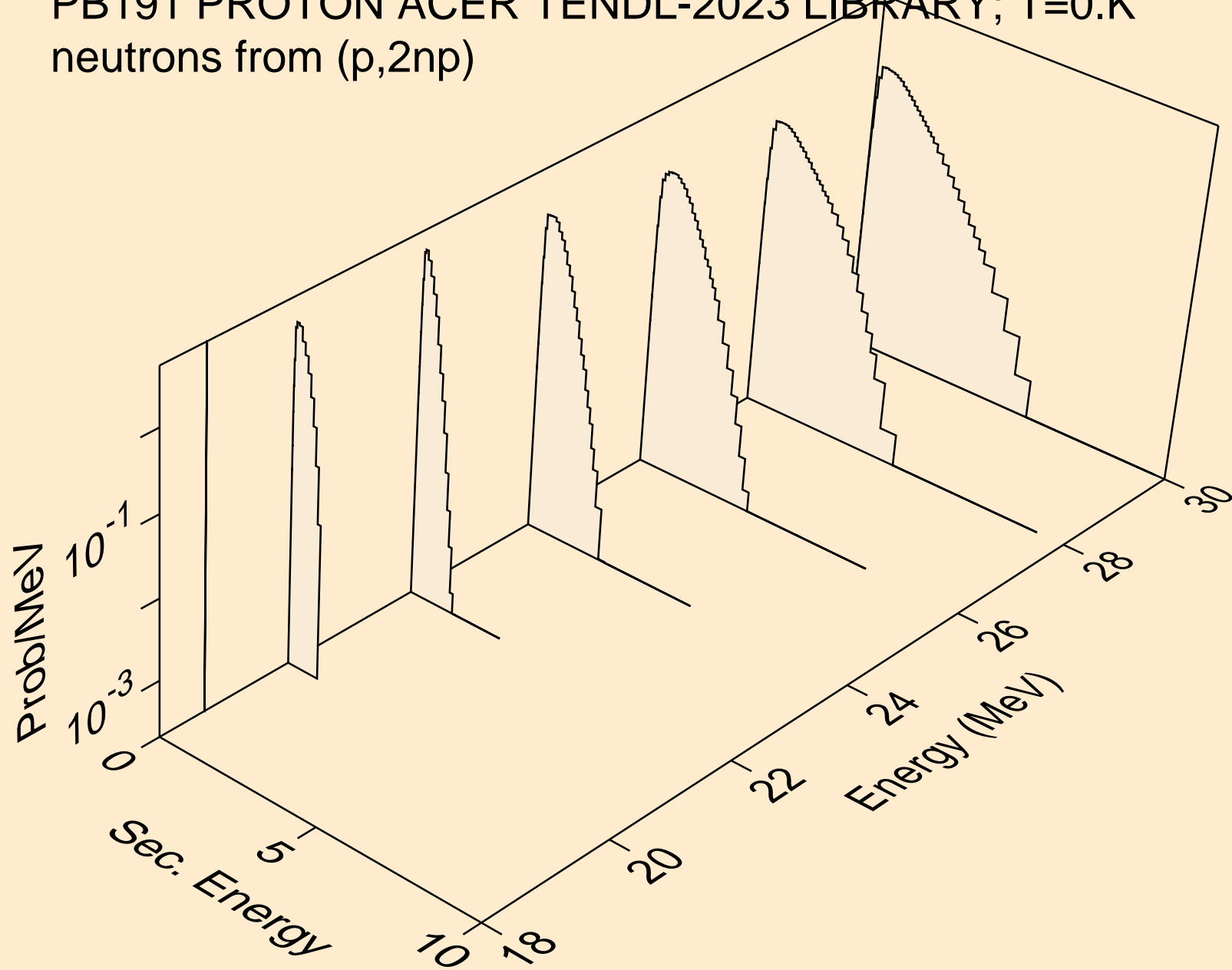
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neutrons from (p,n\*)t



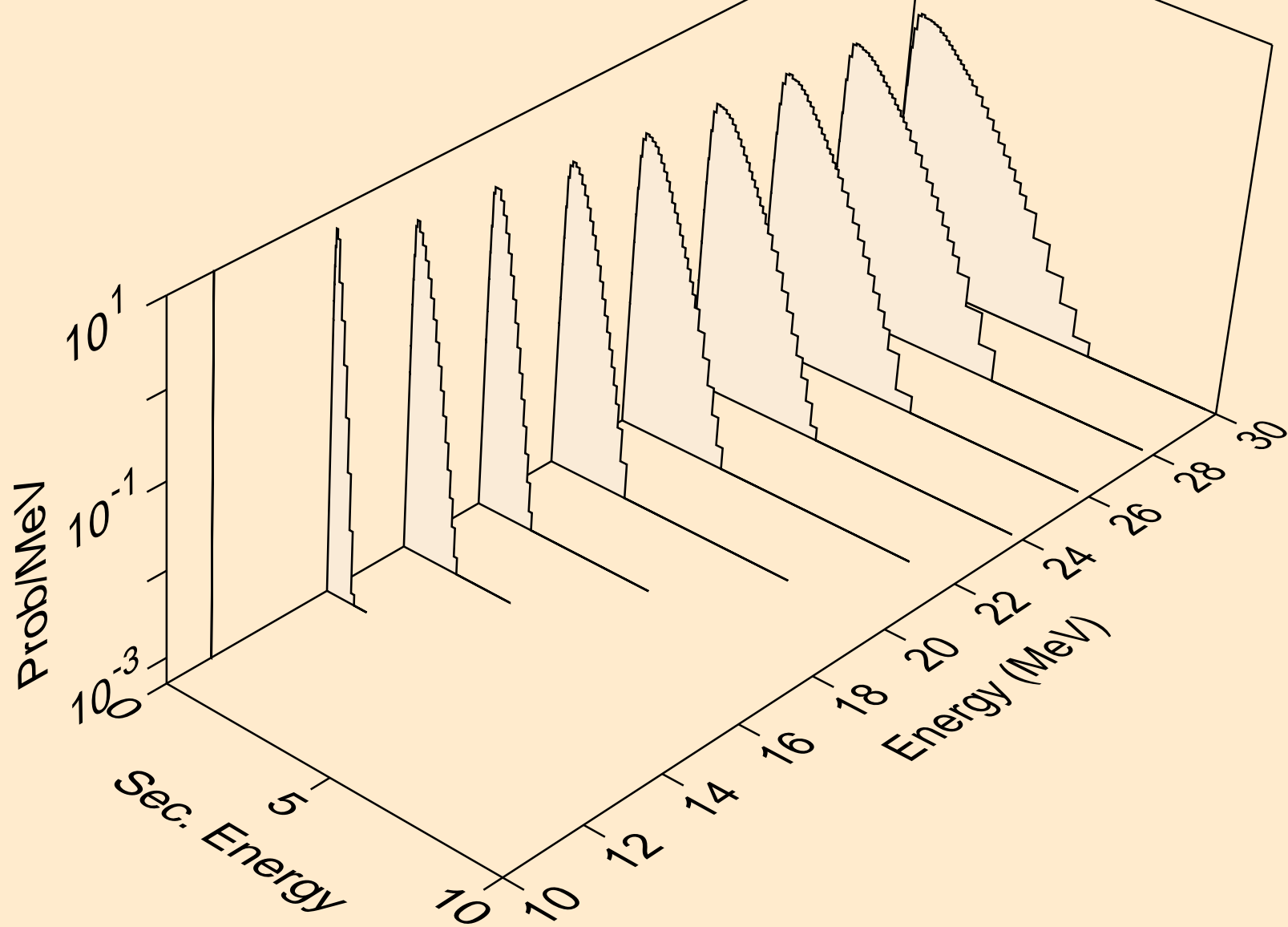
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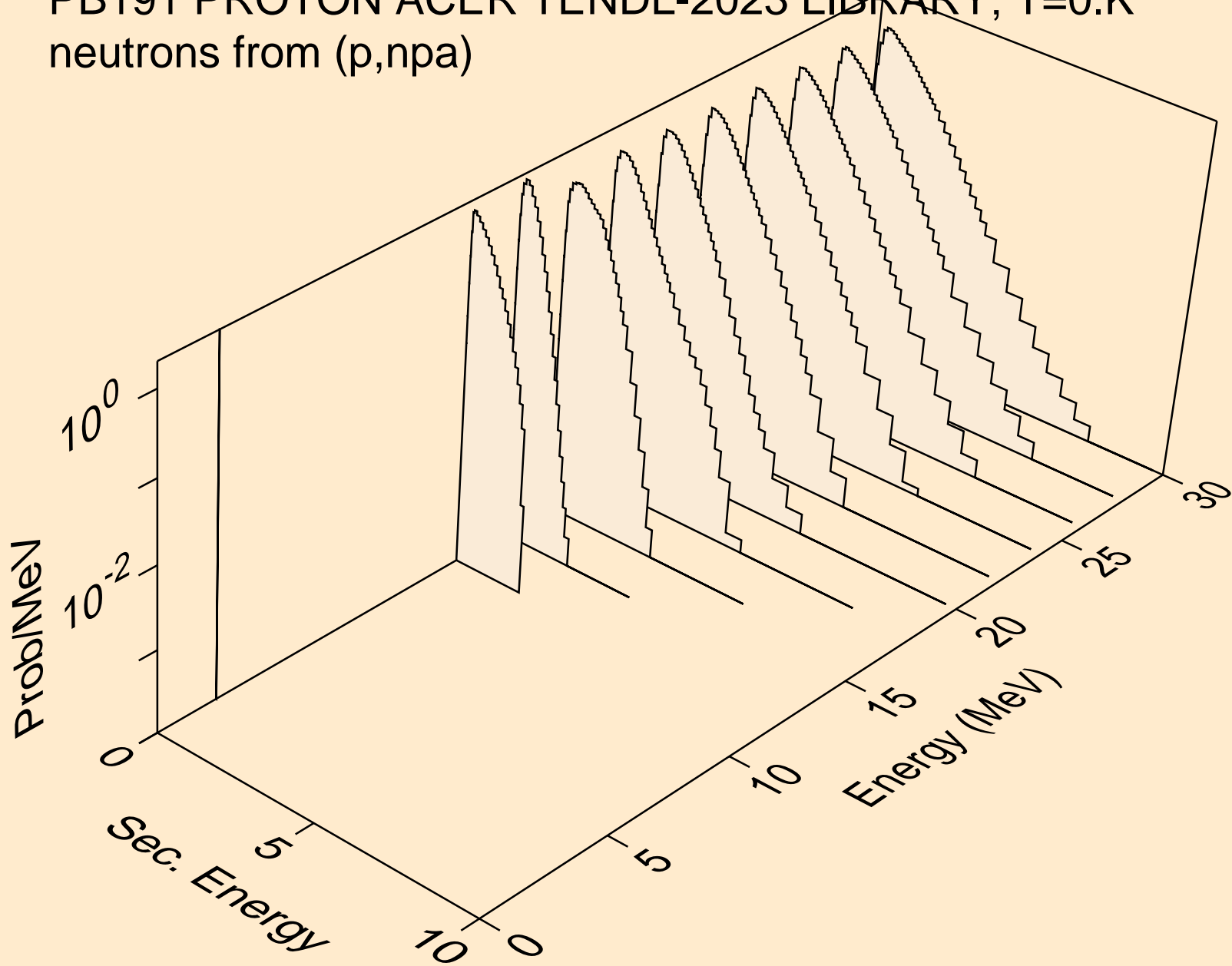
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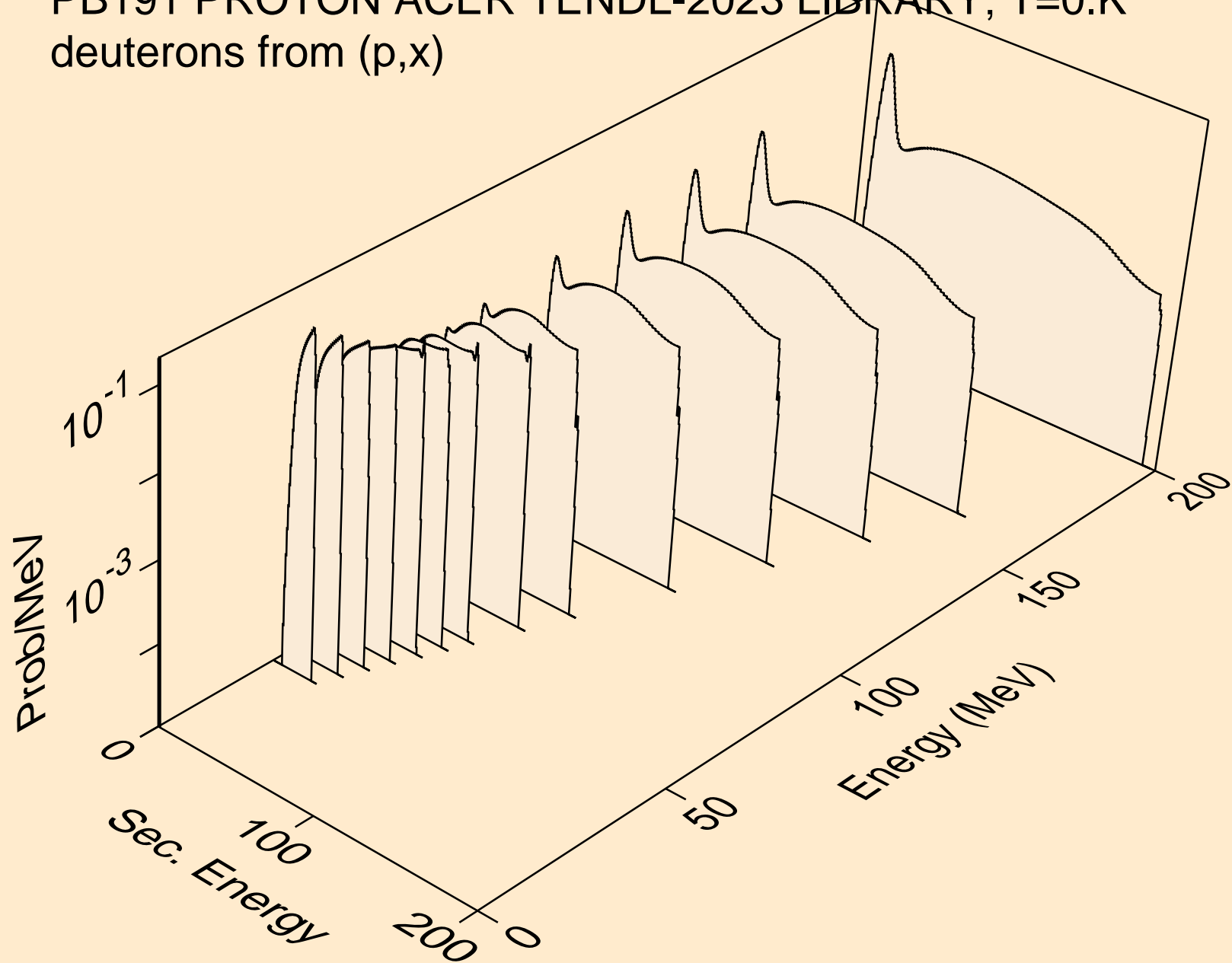
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neutrons from (p,n2p)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
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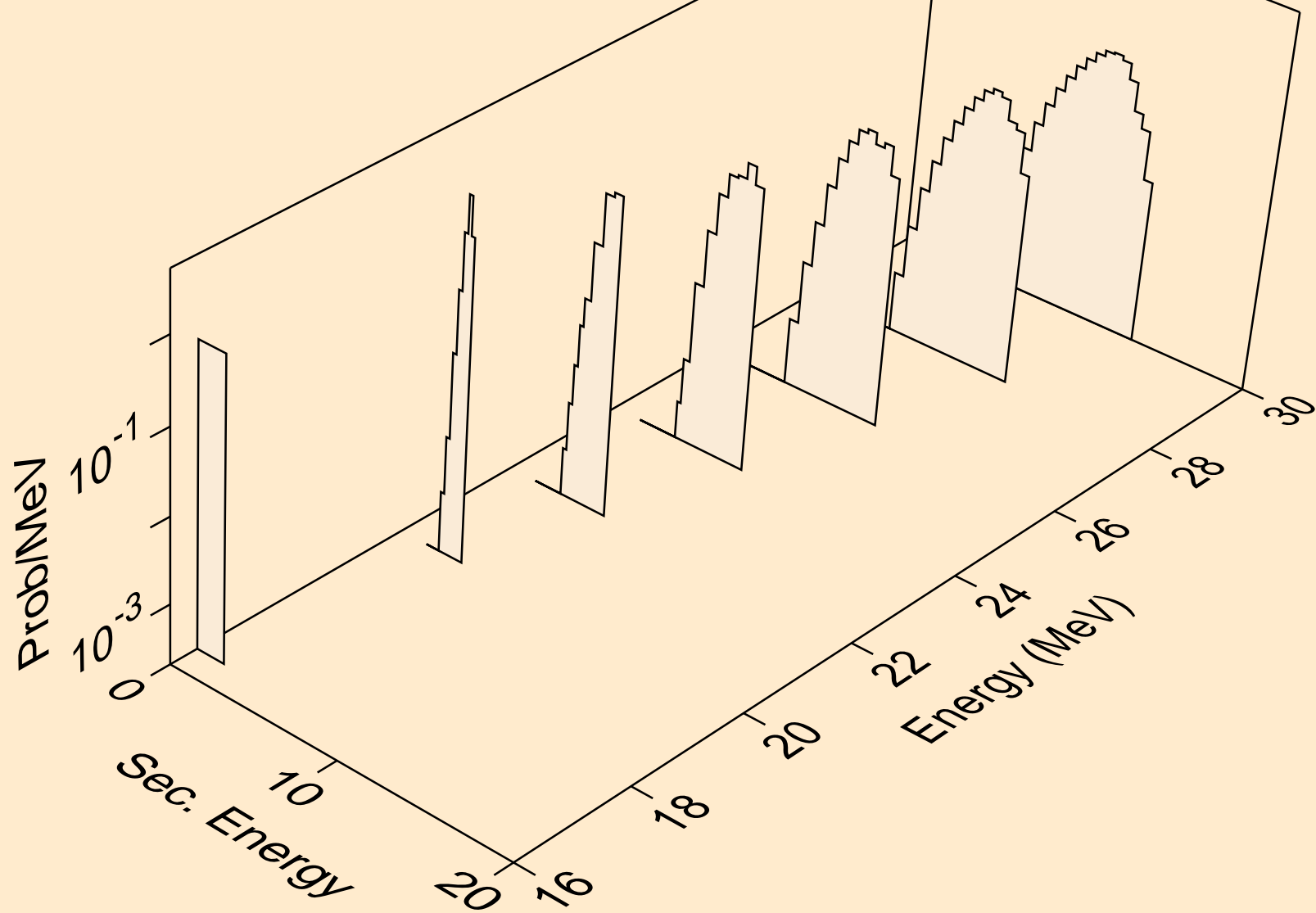


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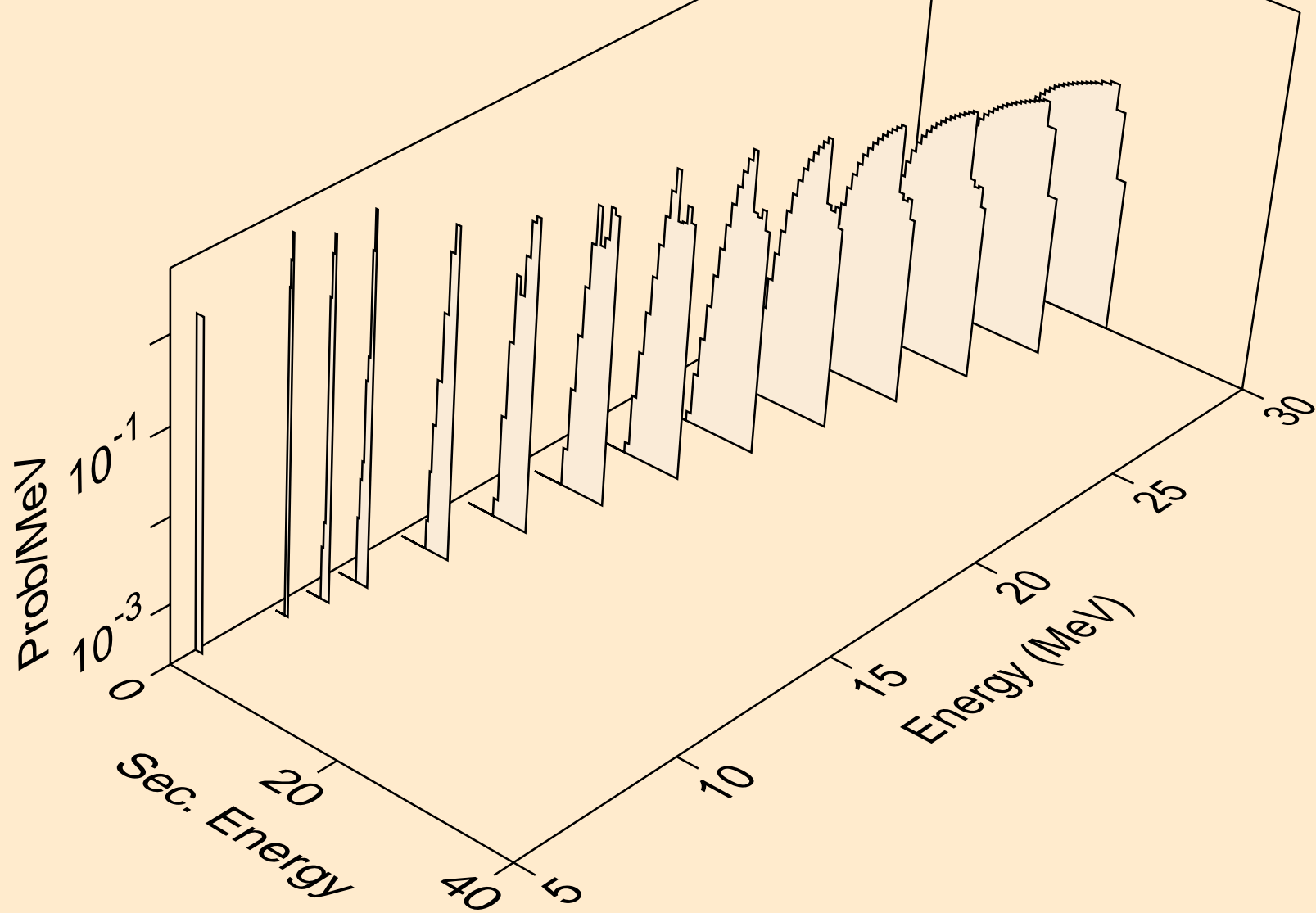




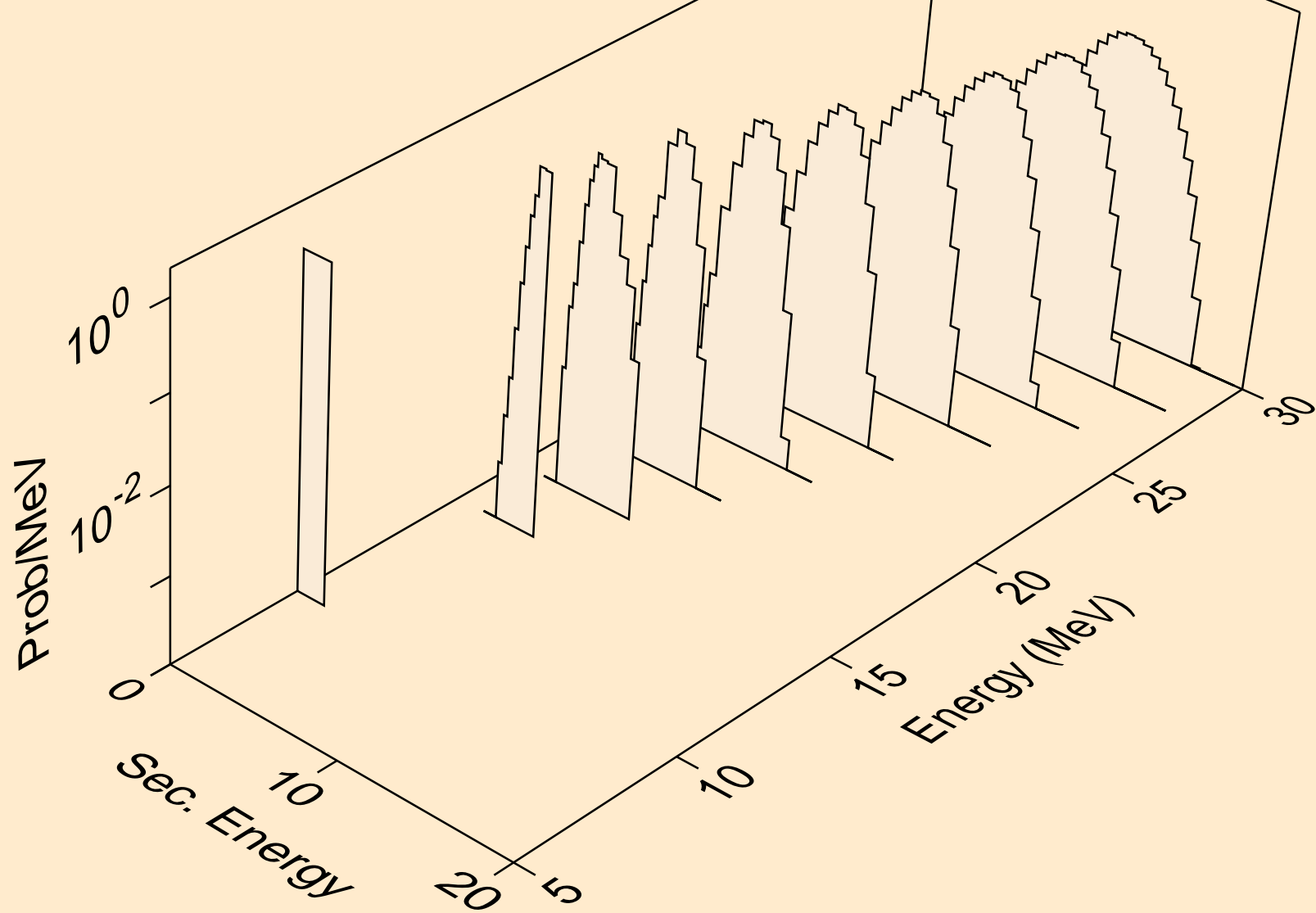
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deuterons from (p,n\*)d



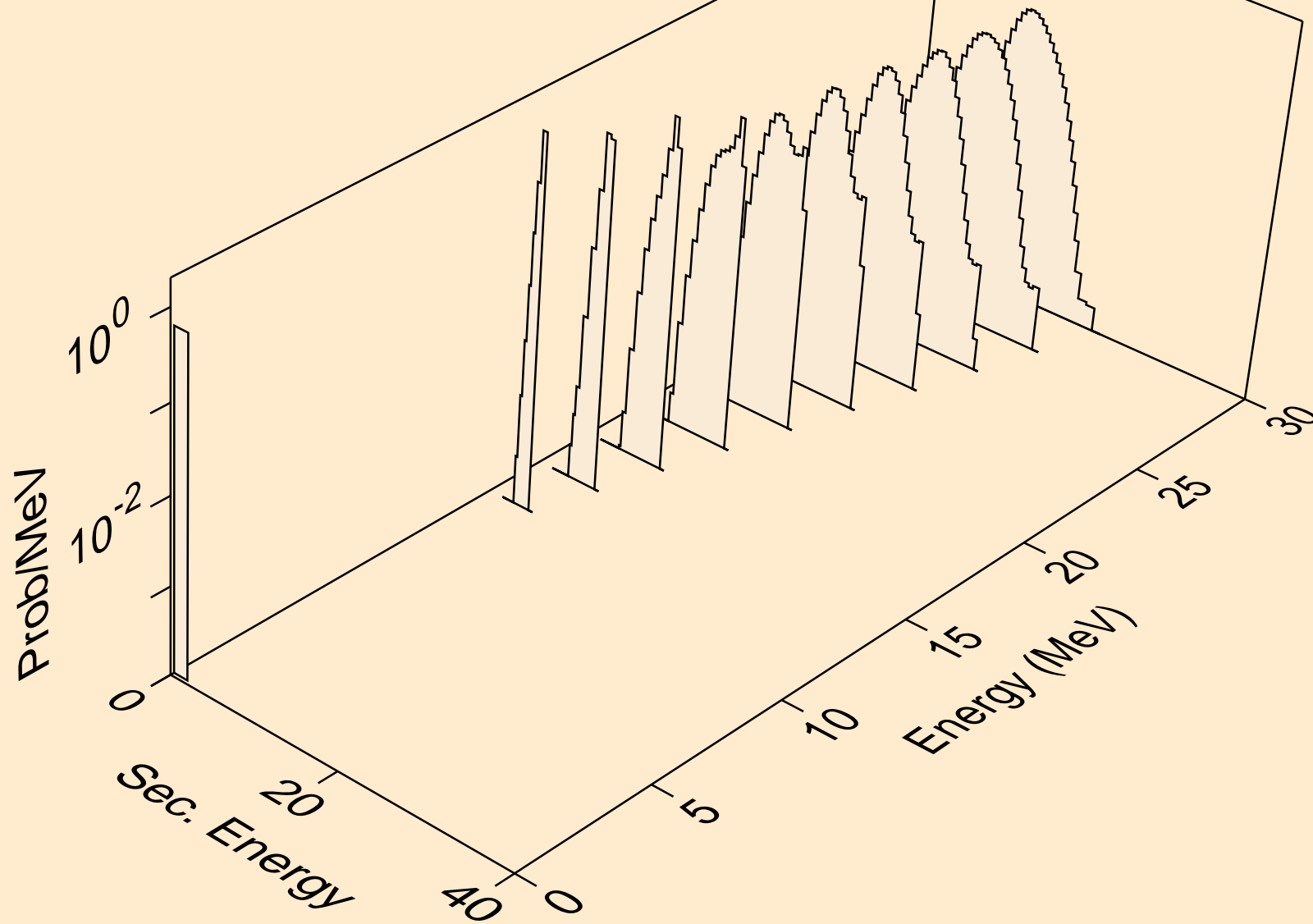
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



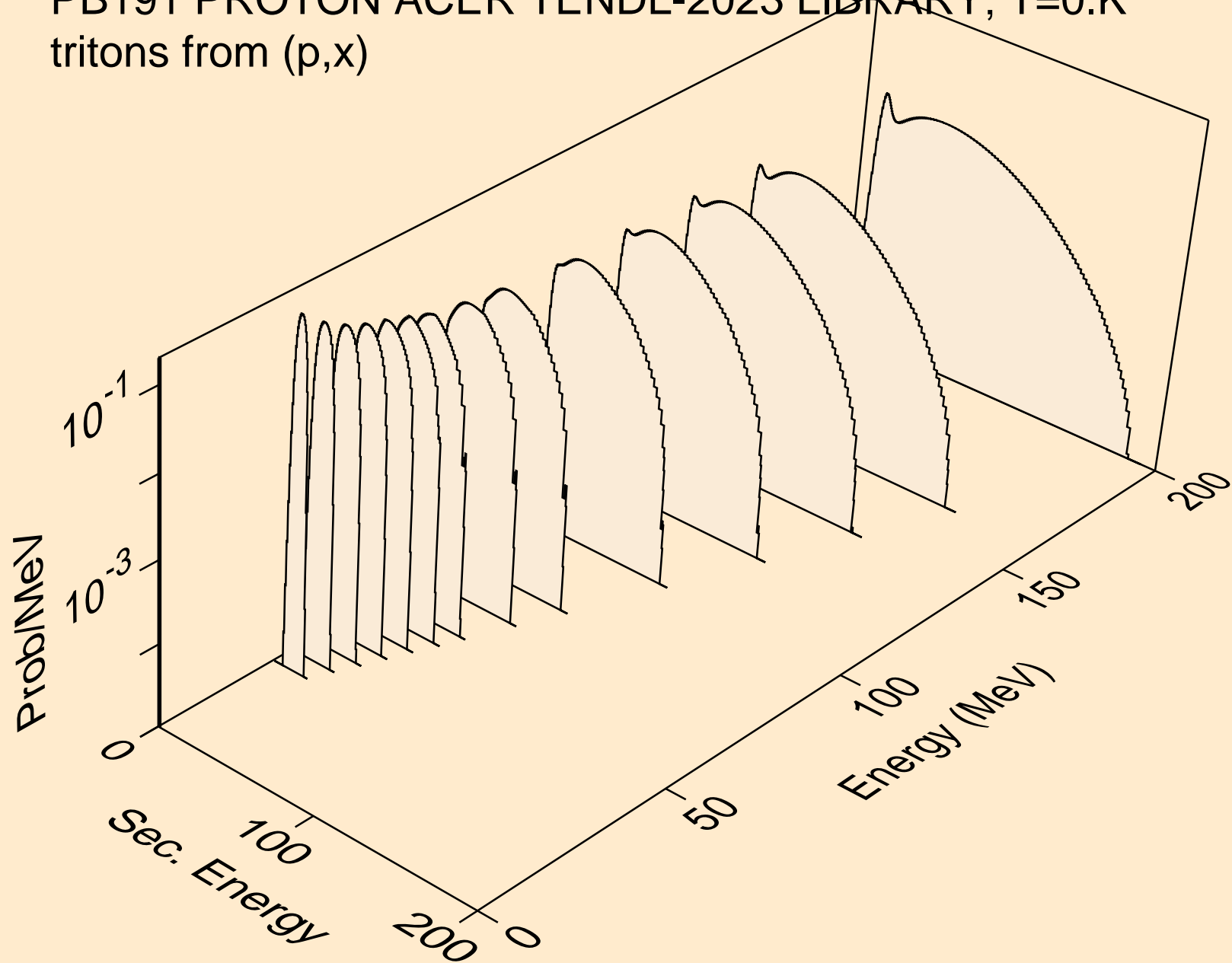
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deuterons from (p,pd)



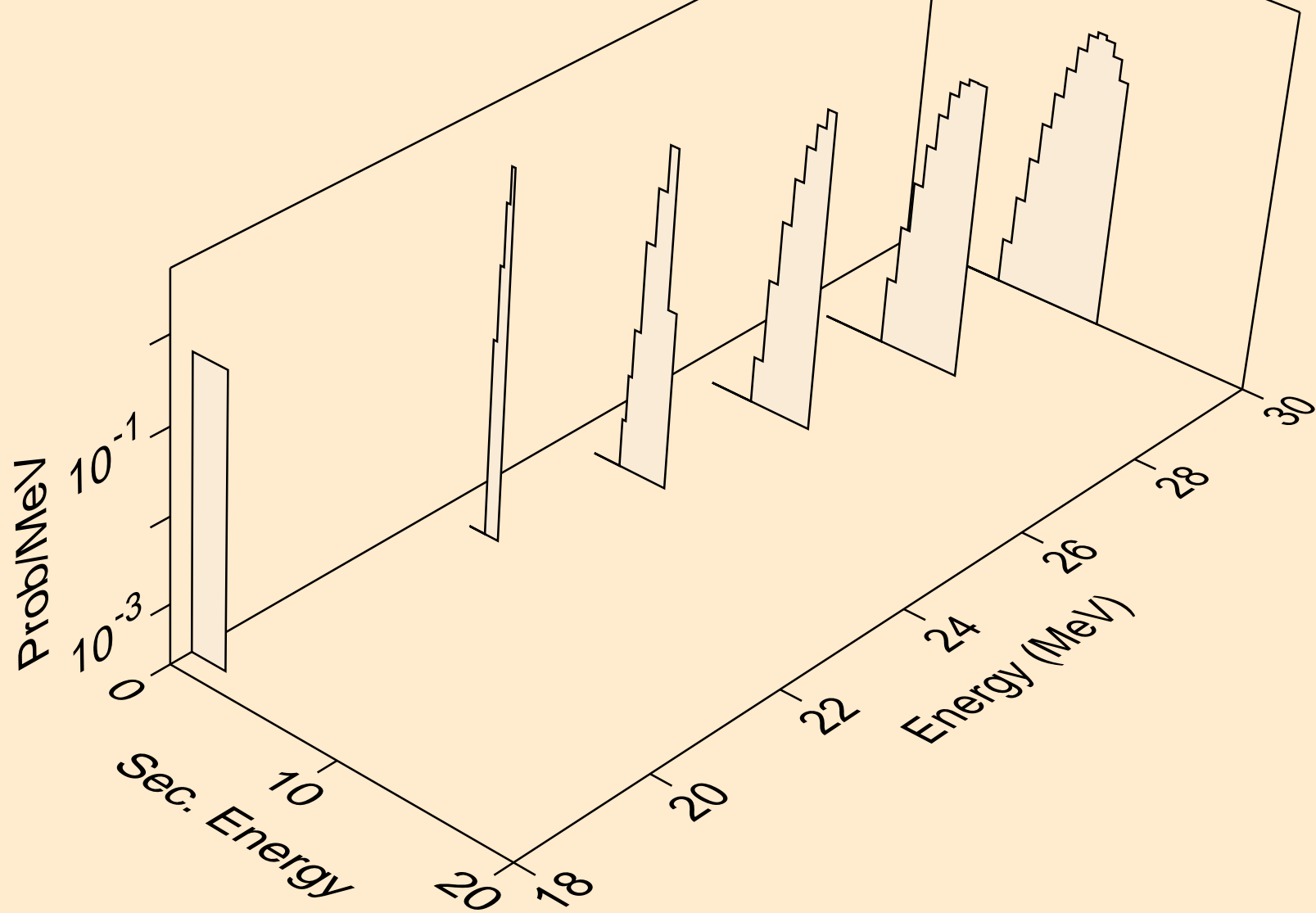
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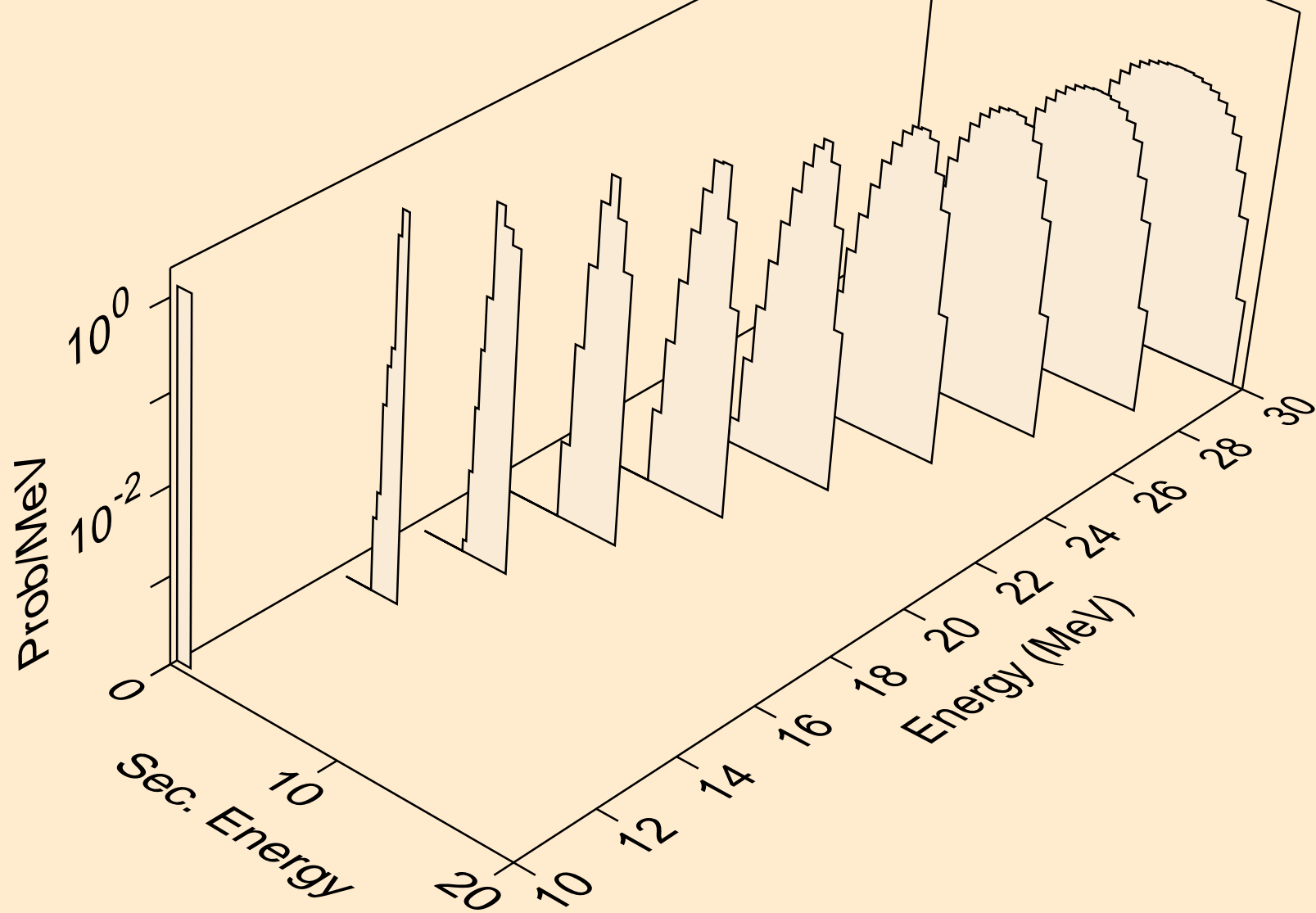
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tritons from (p,x)



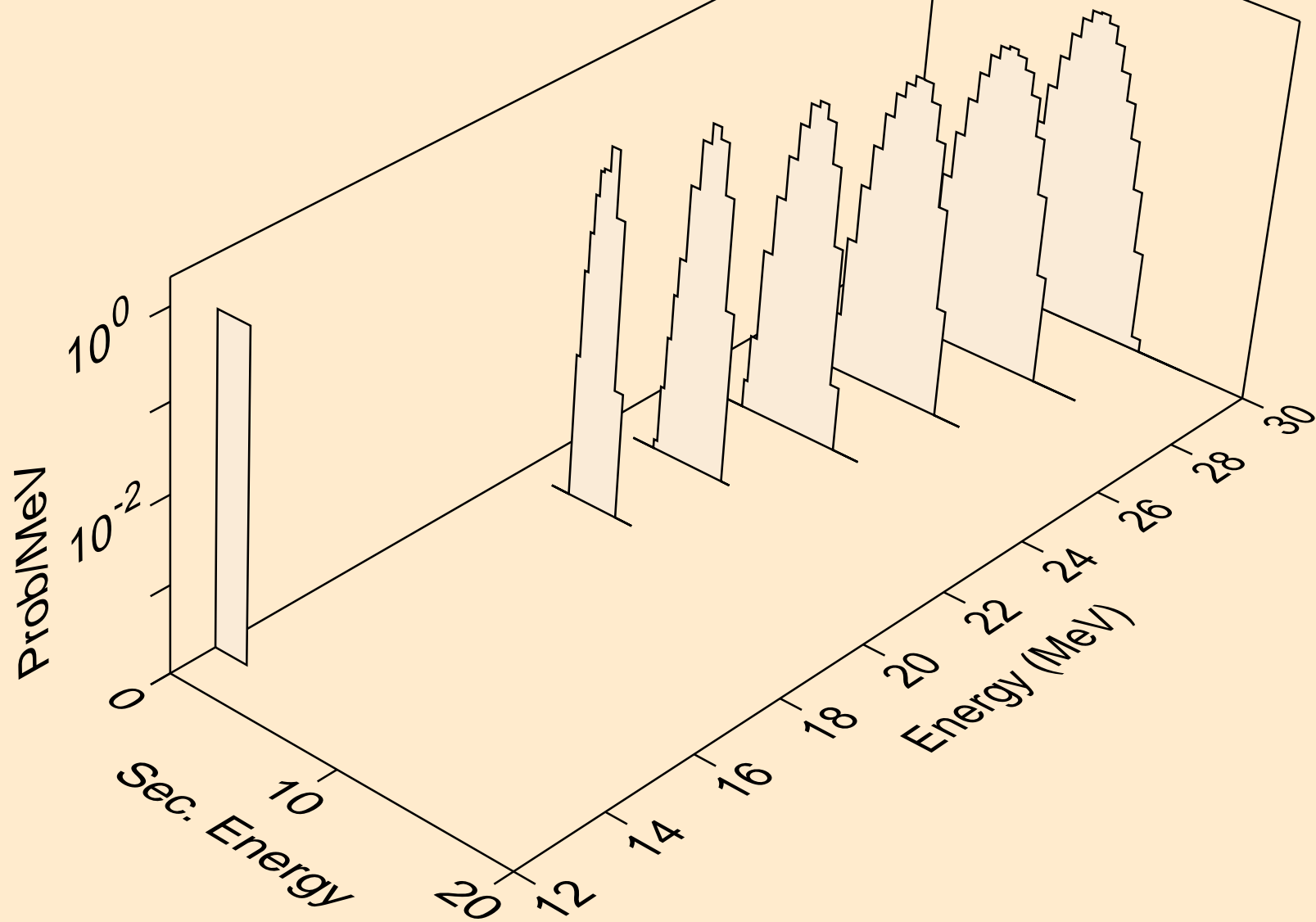
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)

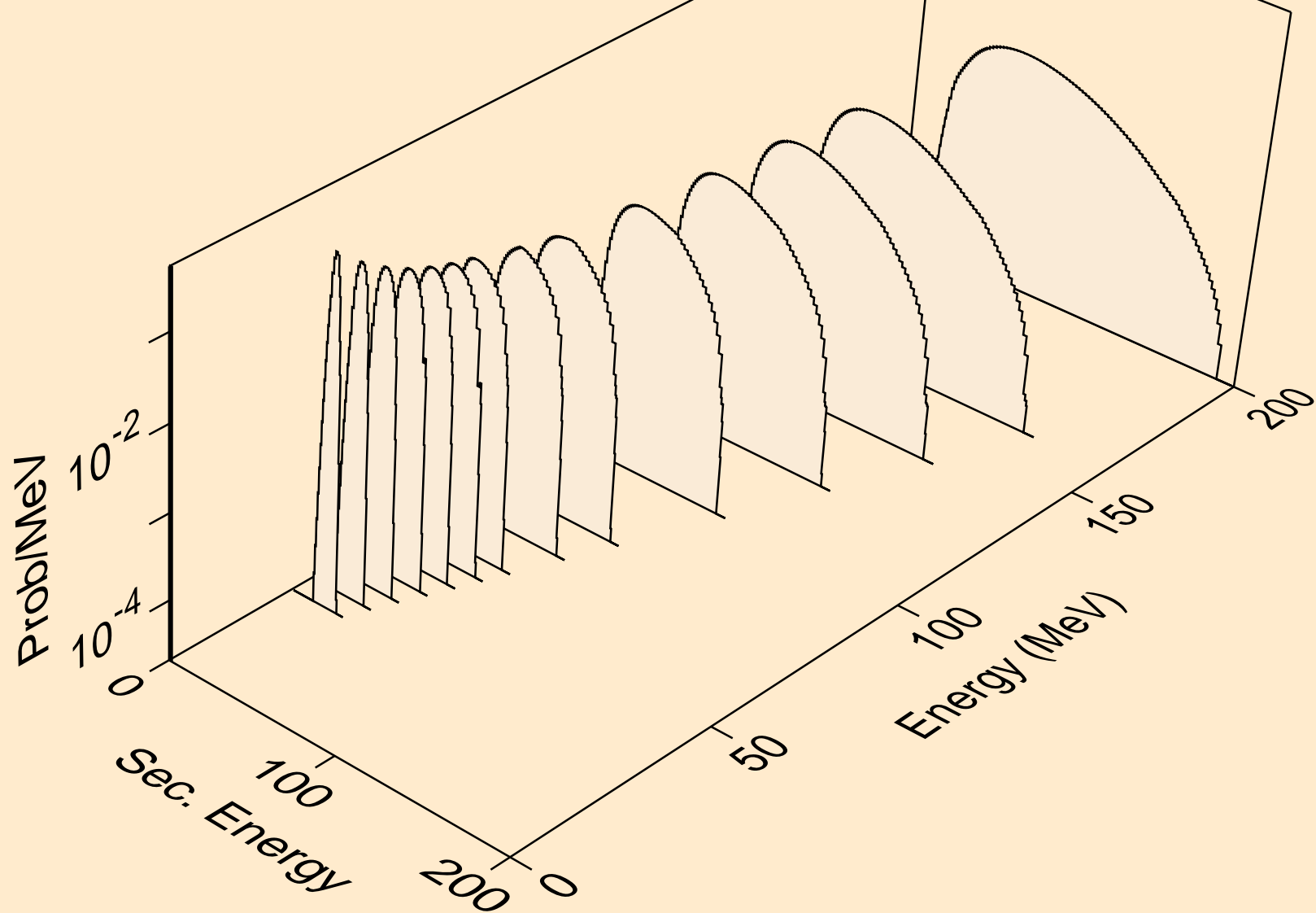


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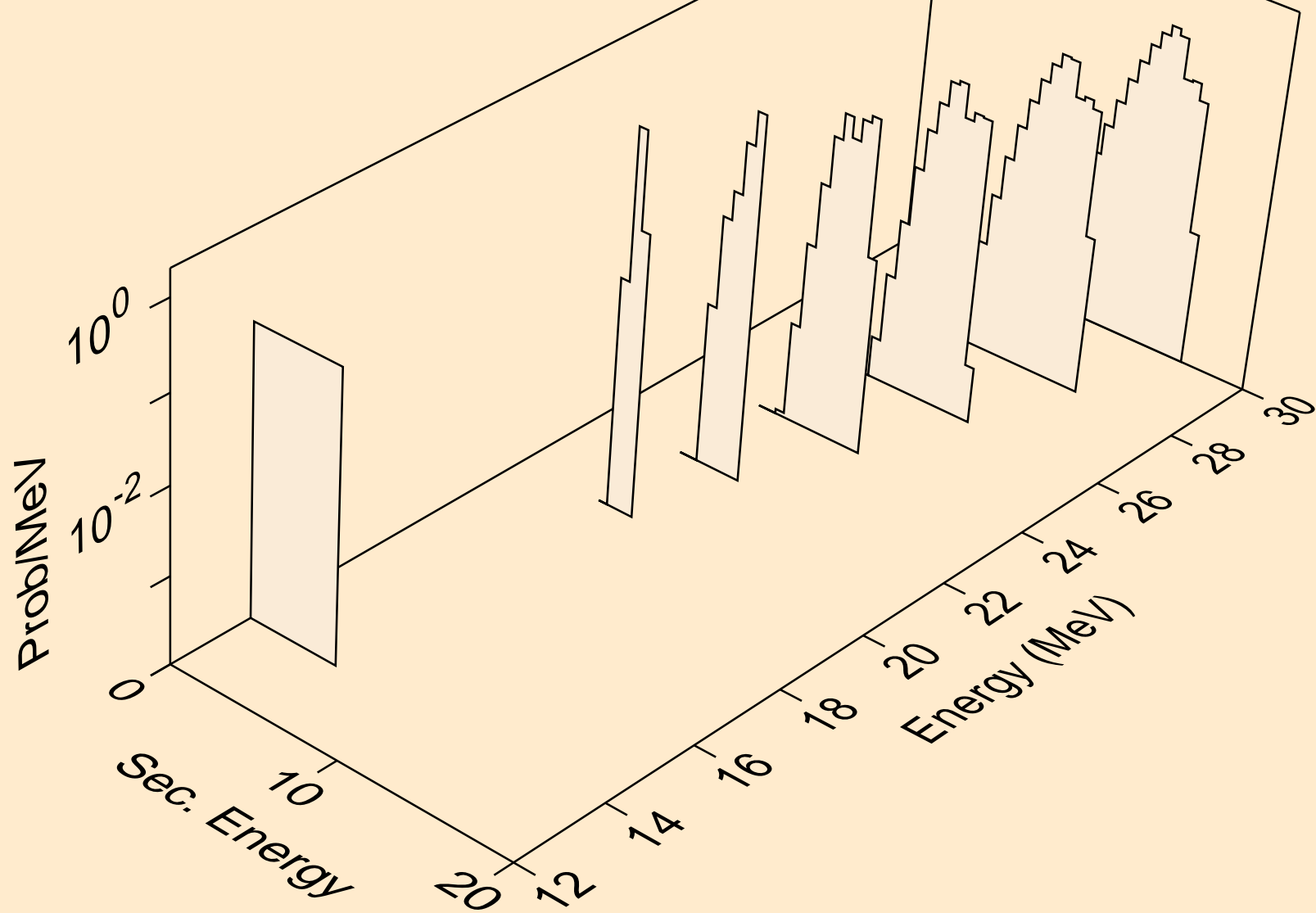




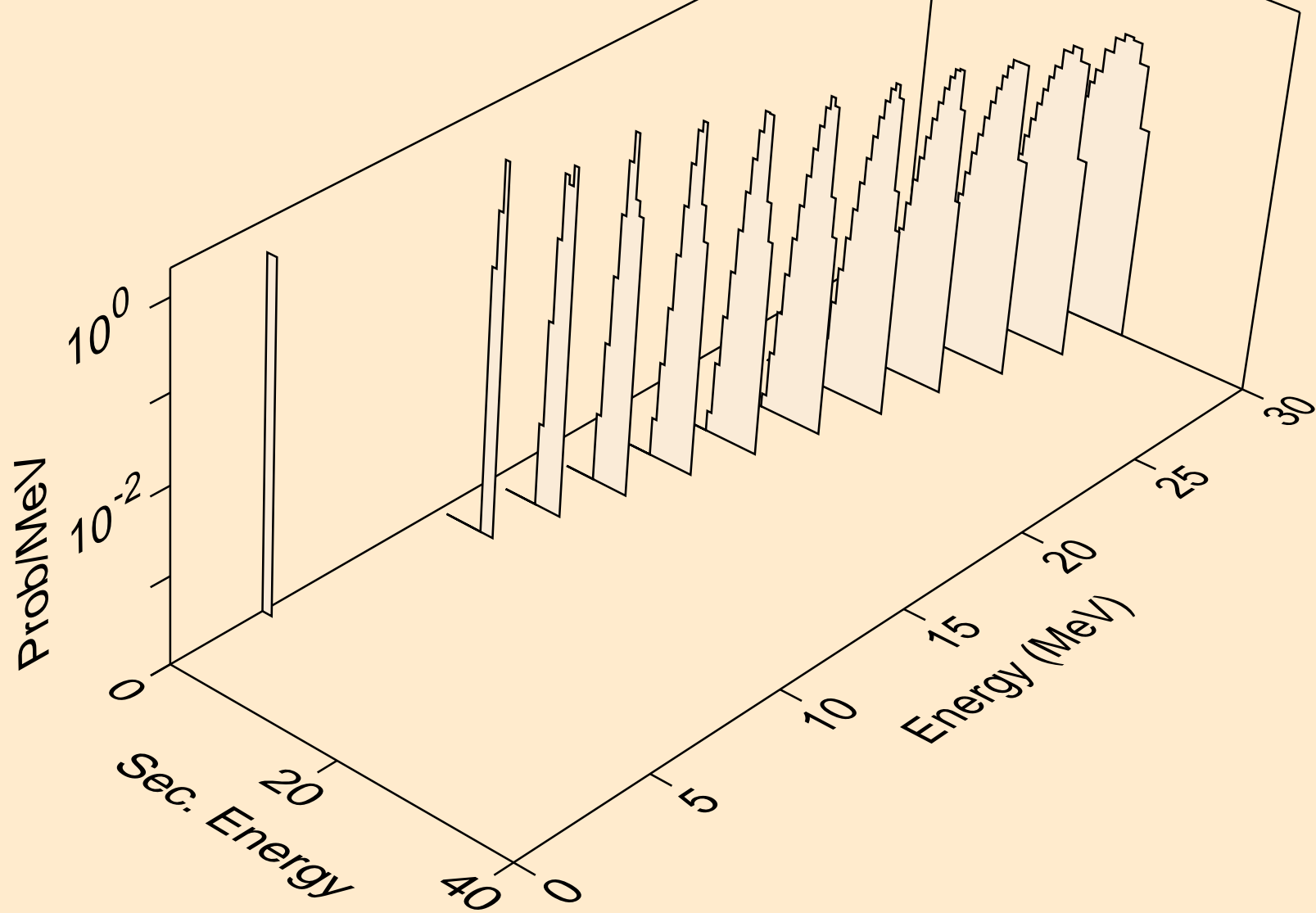
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he3s from (p,x)



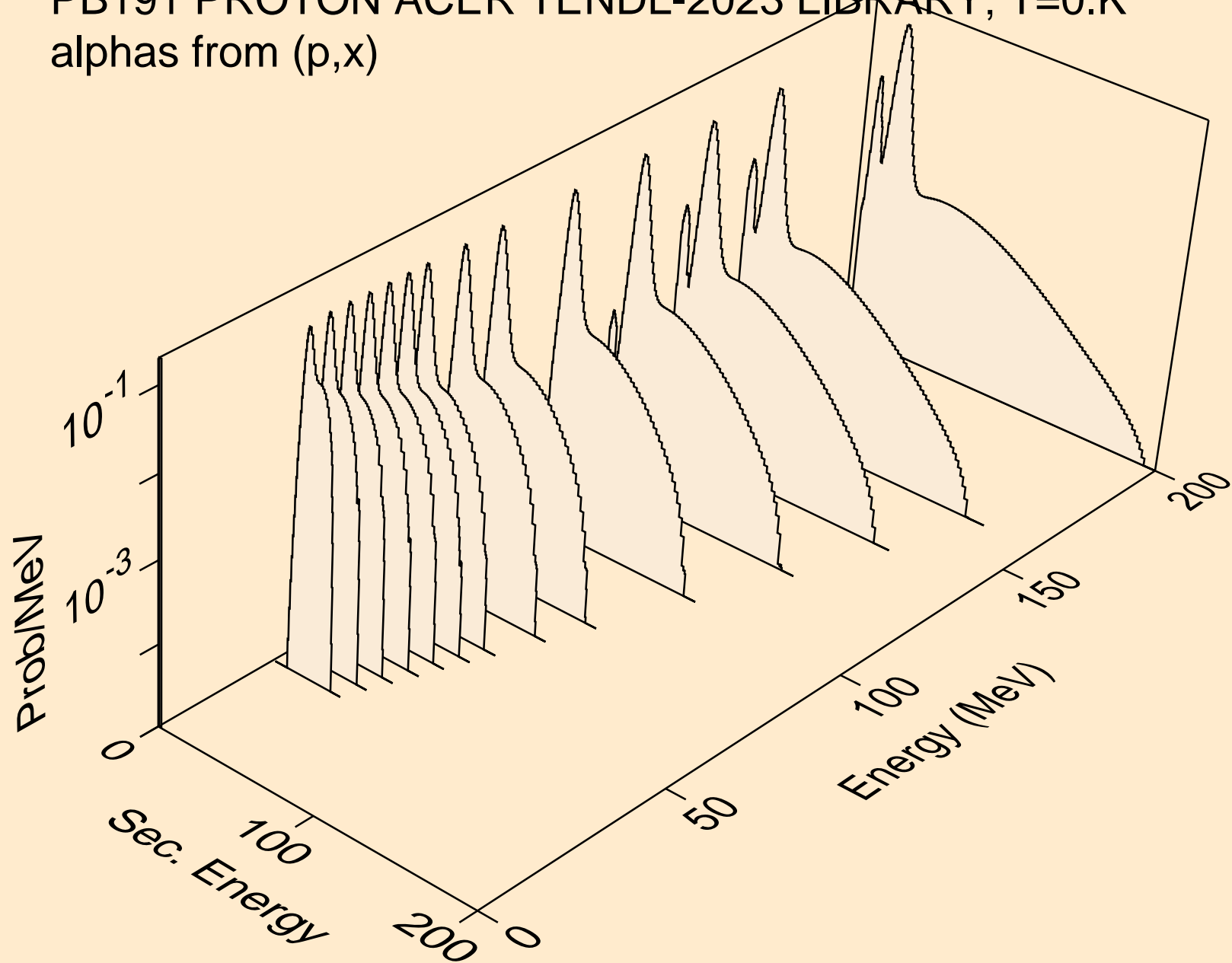
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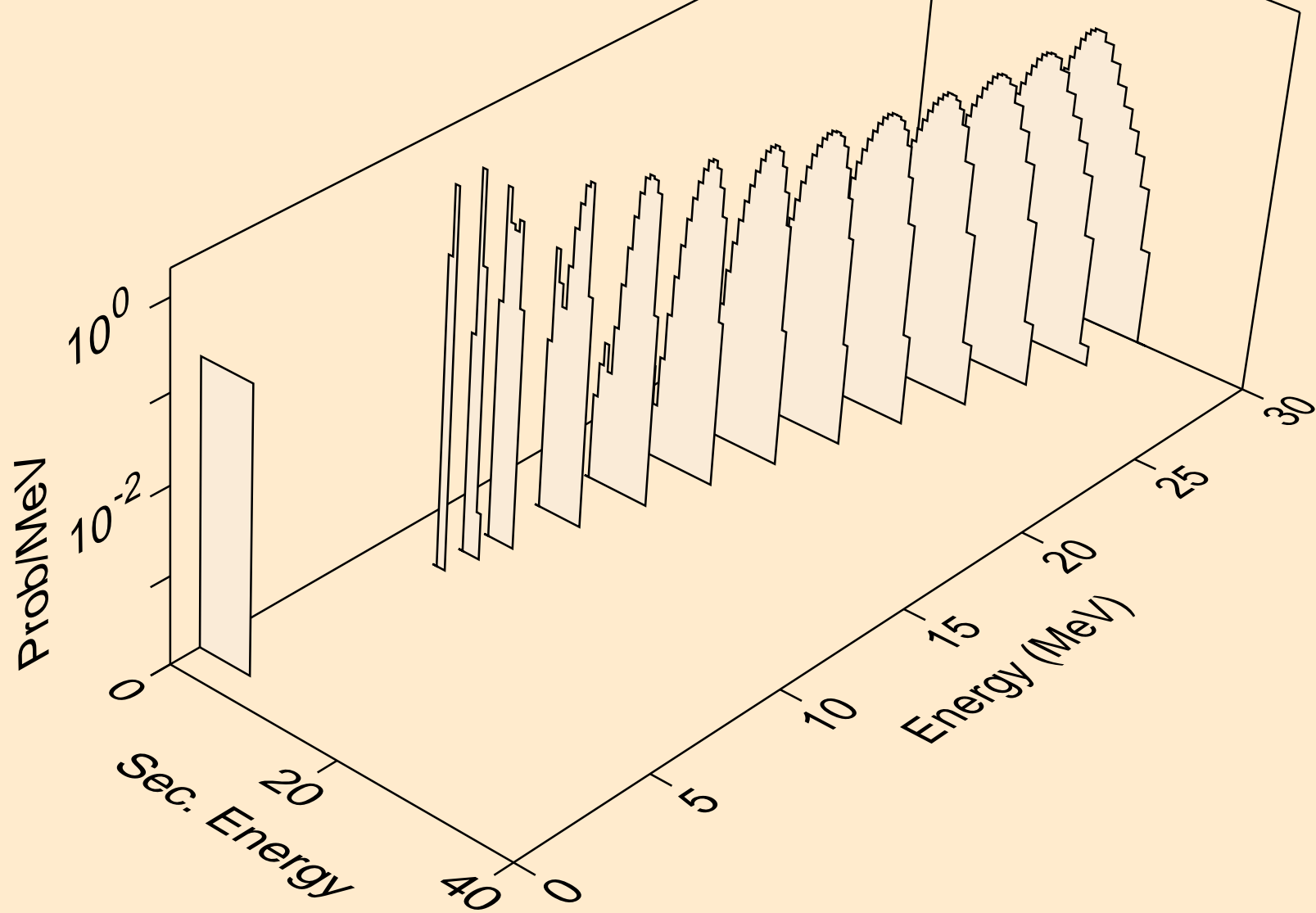
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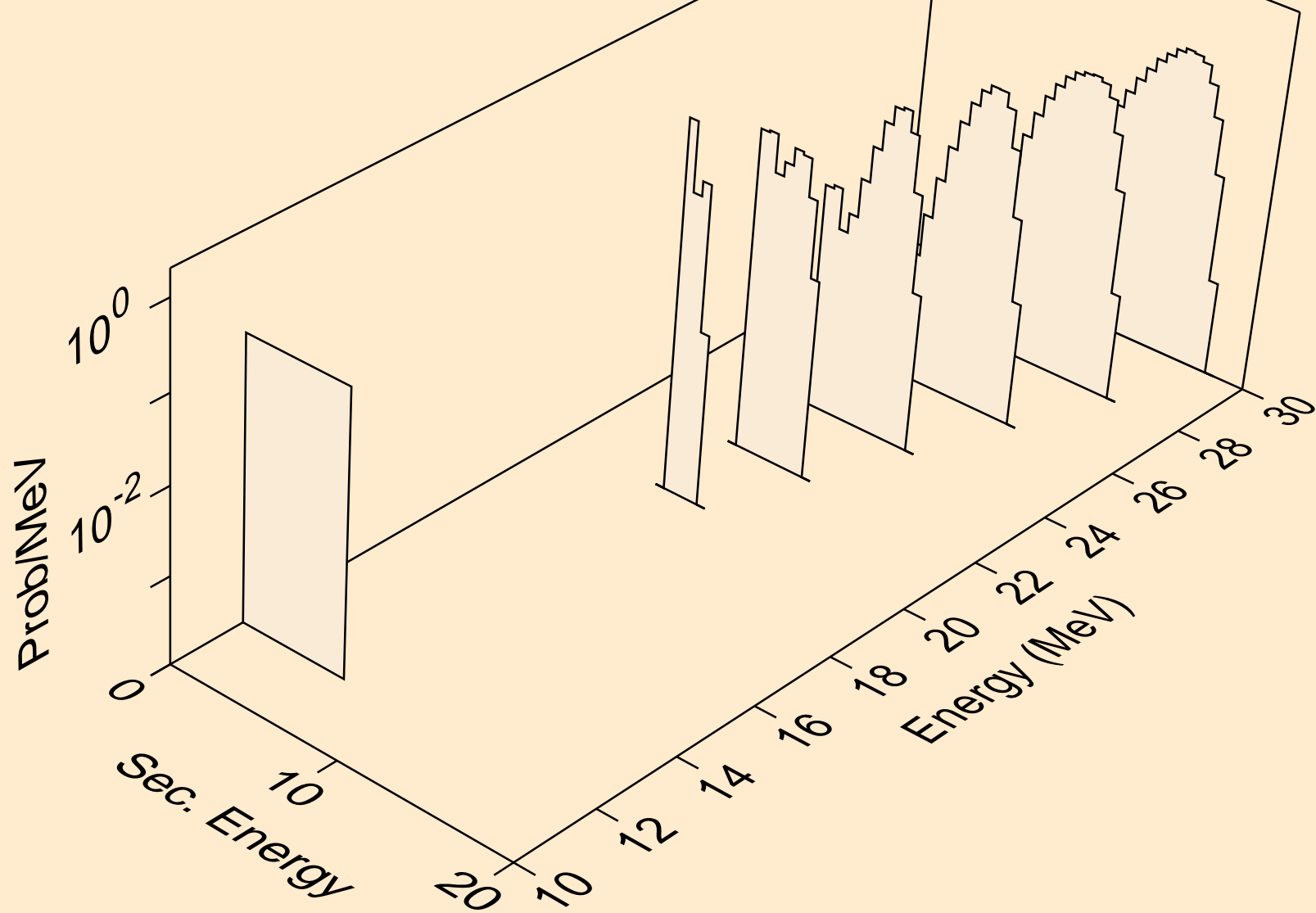
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alphas from (p,x)



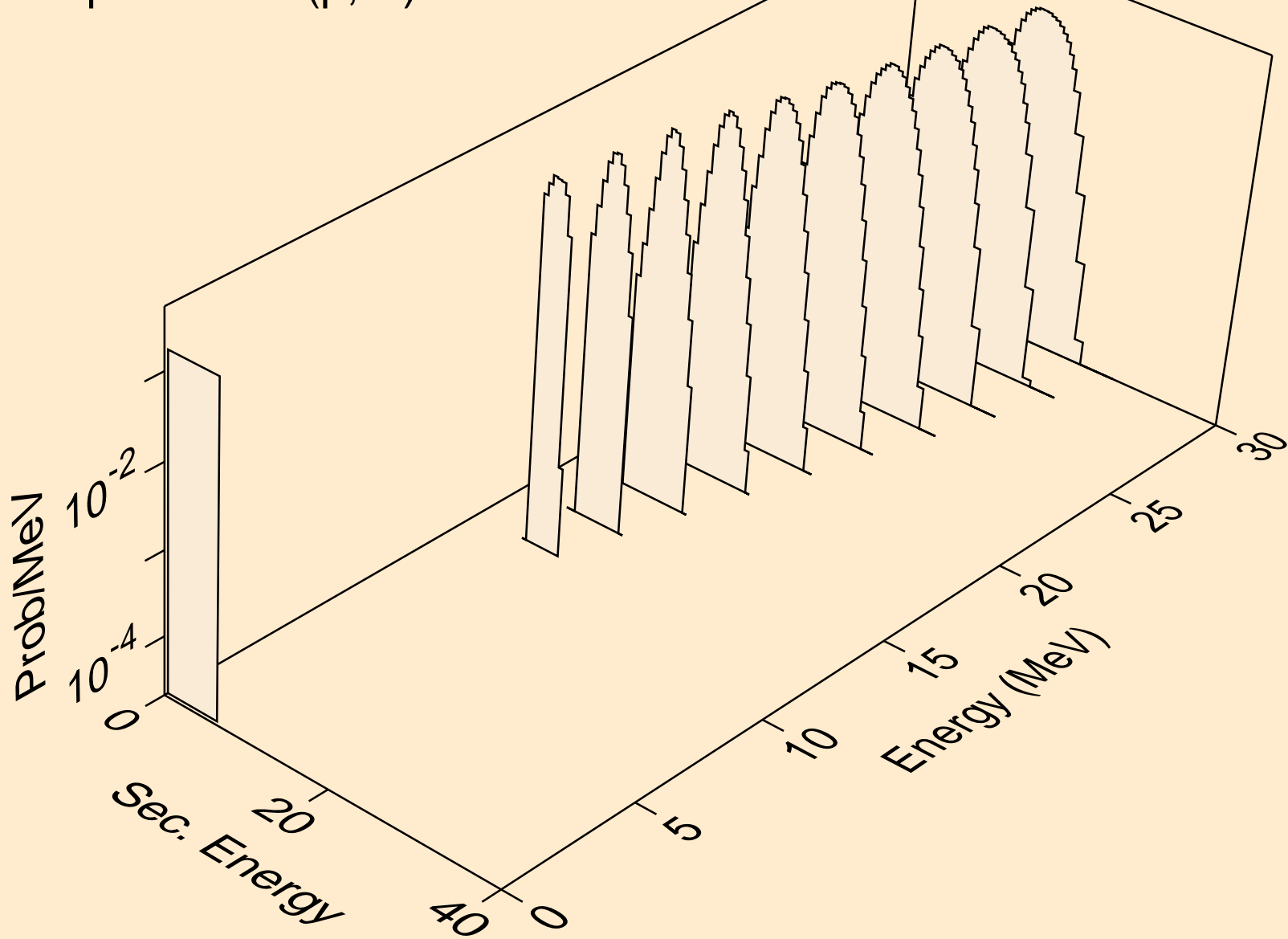
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



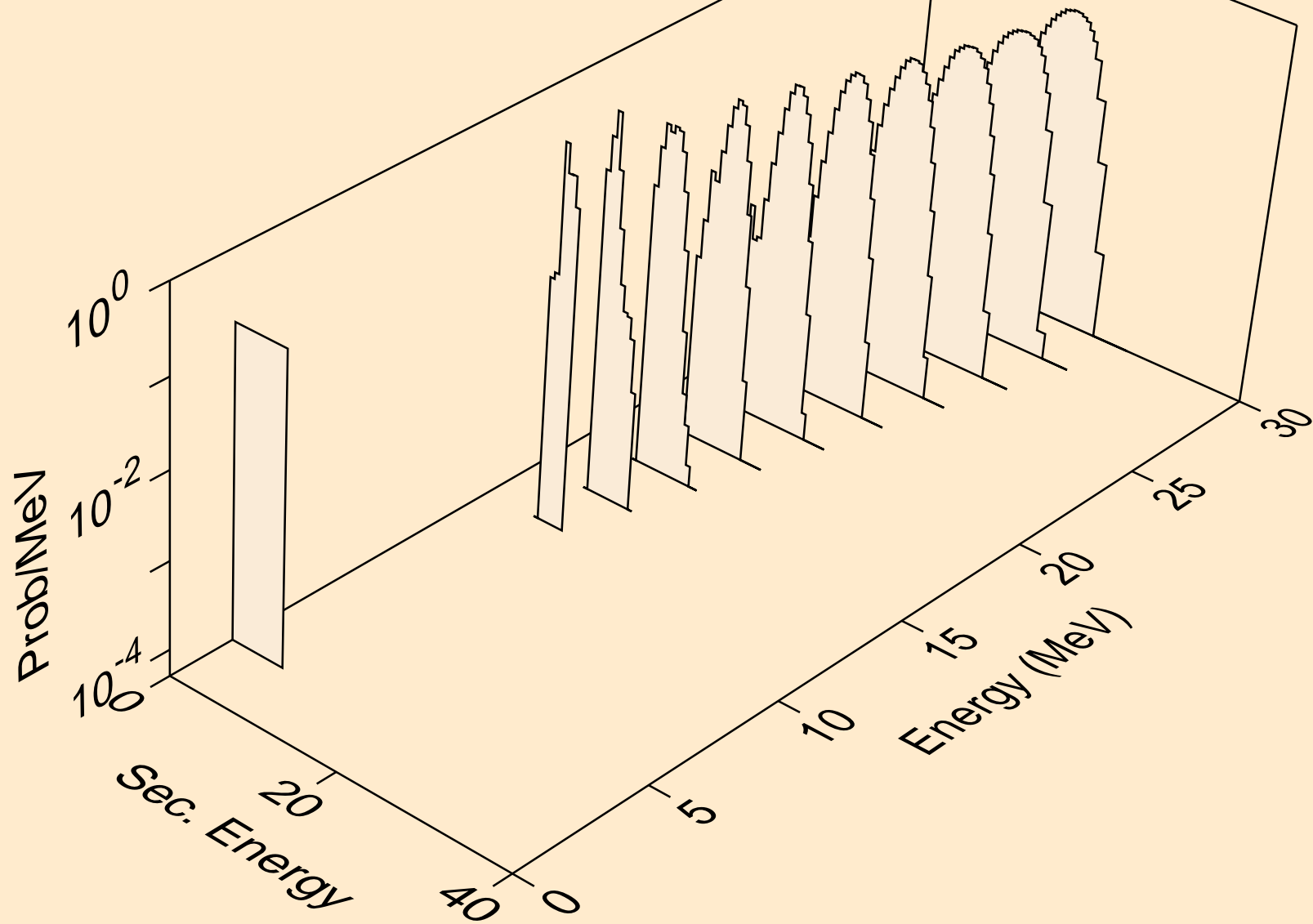
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a

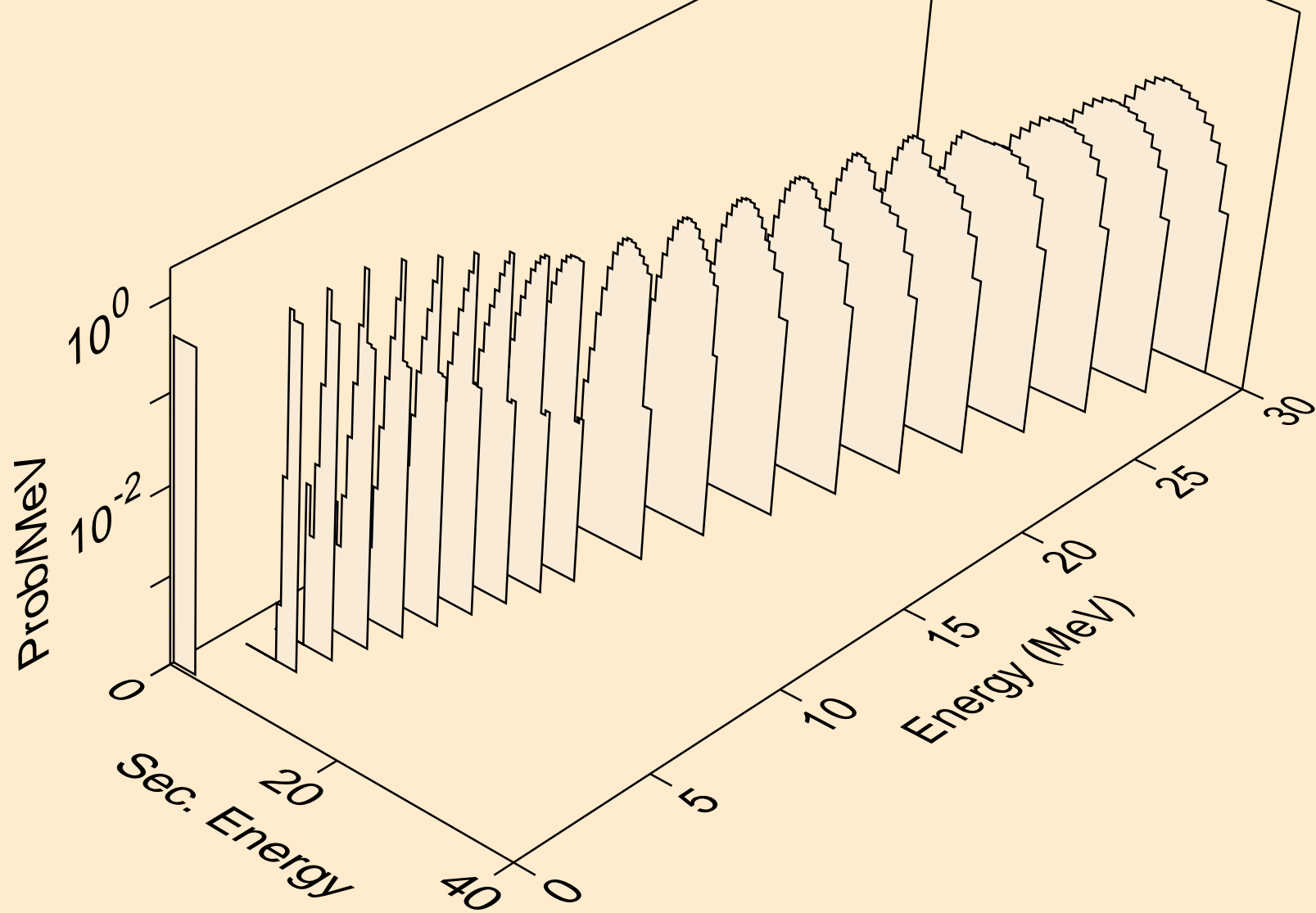


PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)

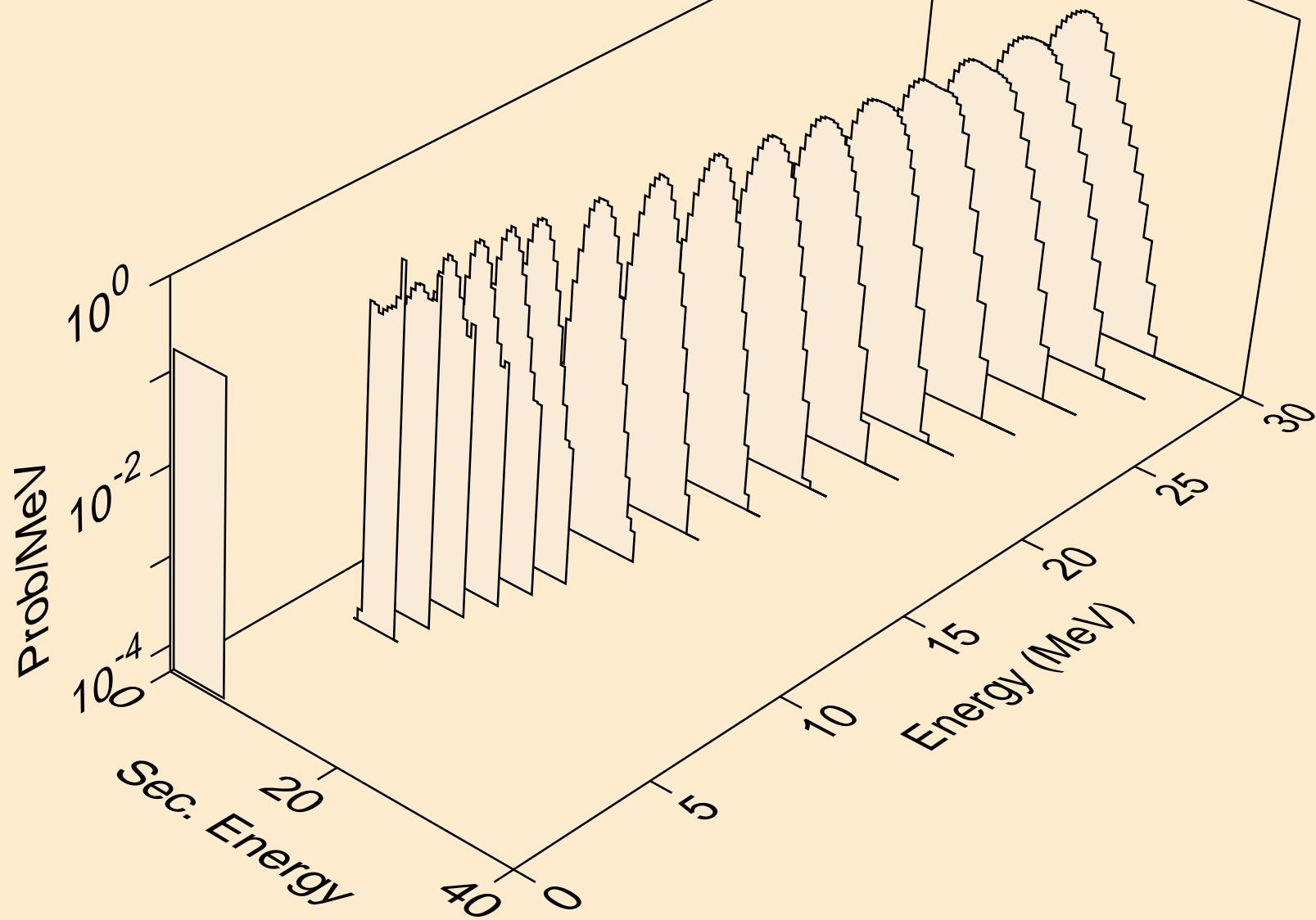




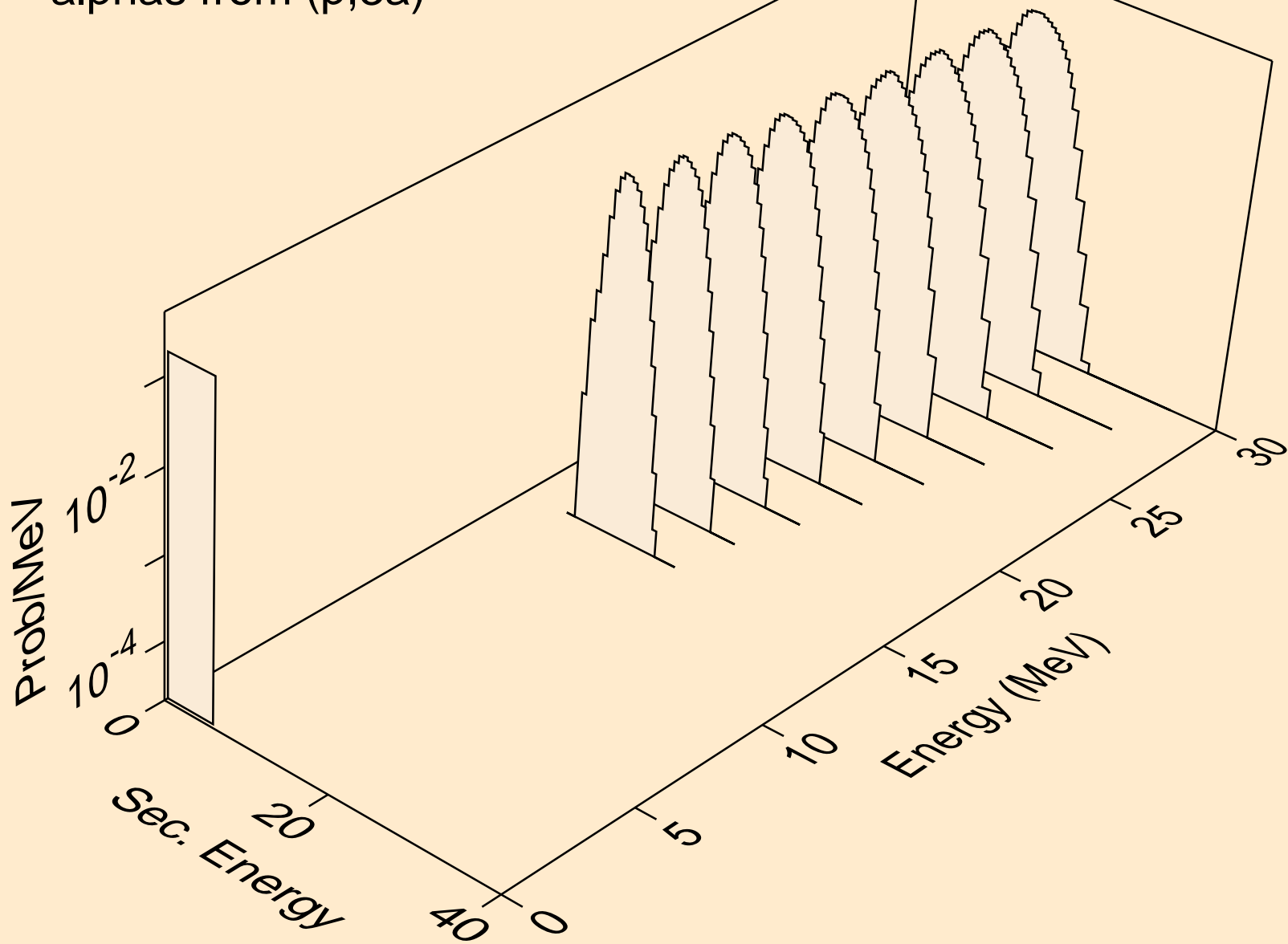
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alphas from (p,a)



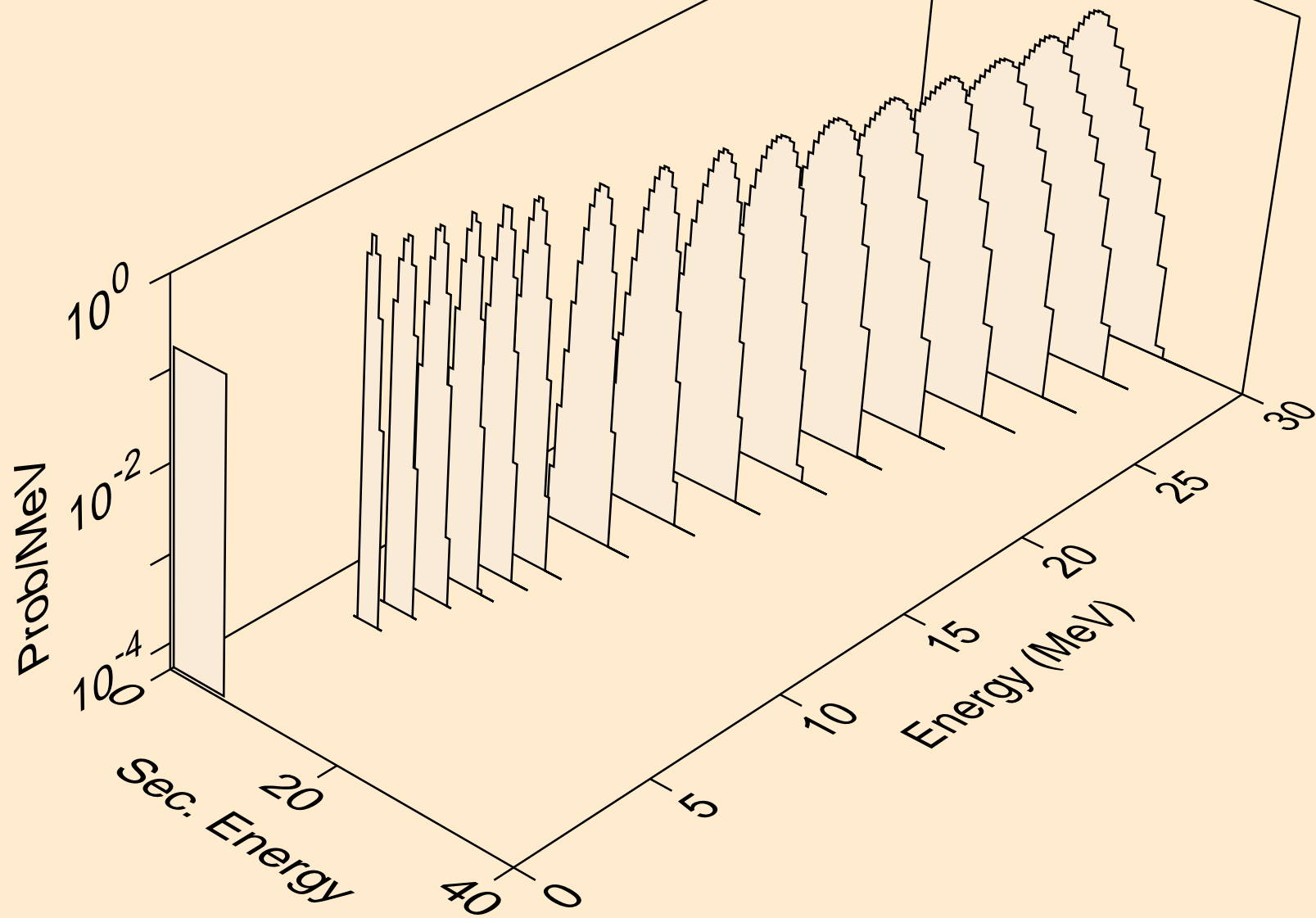
PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3a)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



PB191 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

