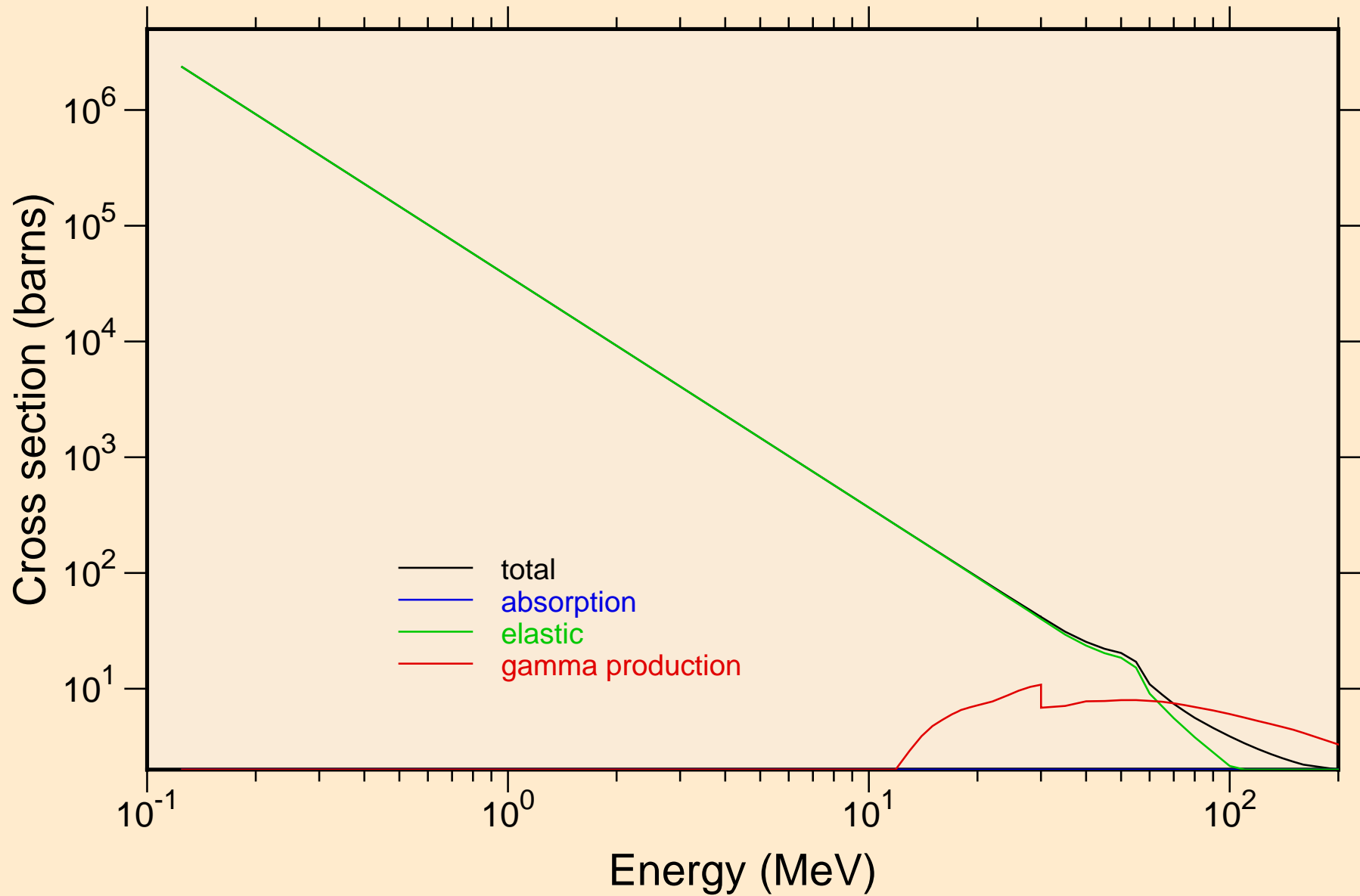
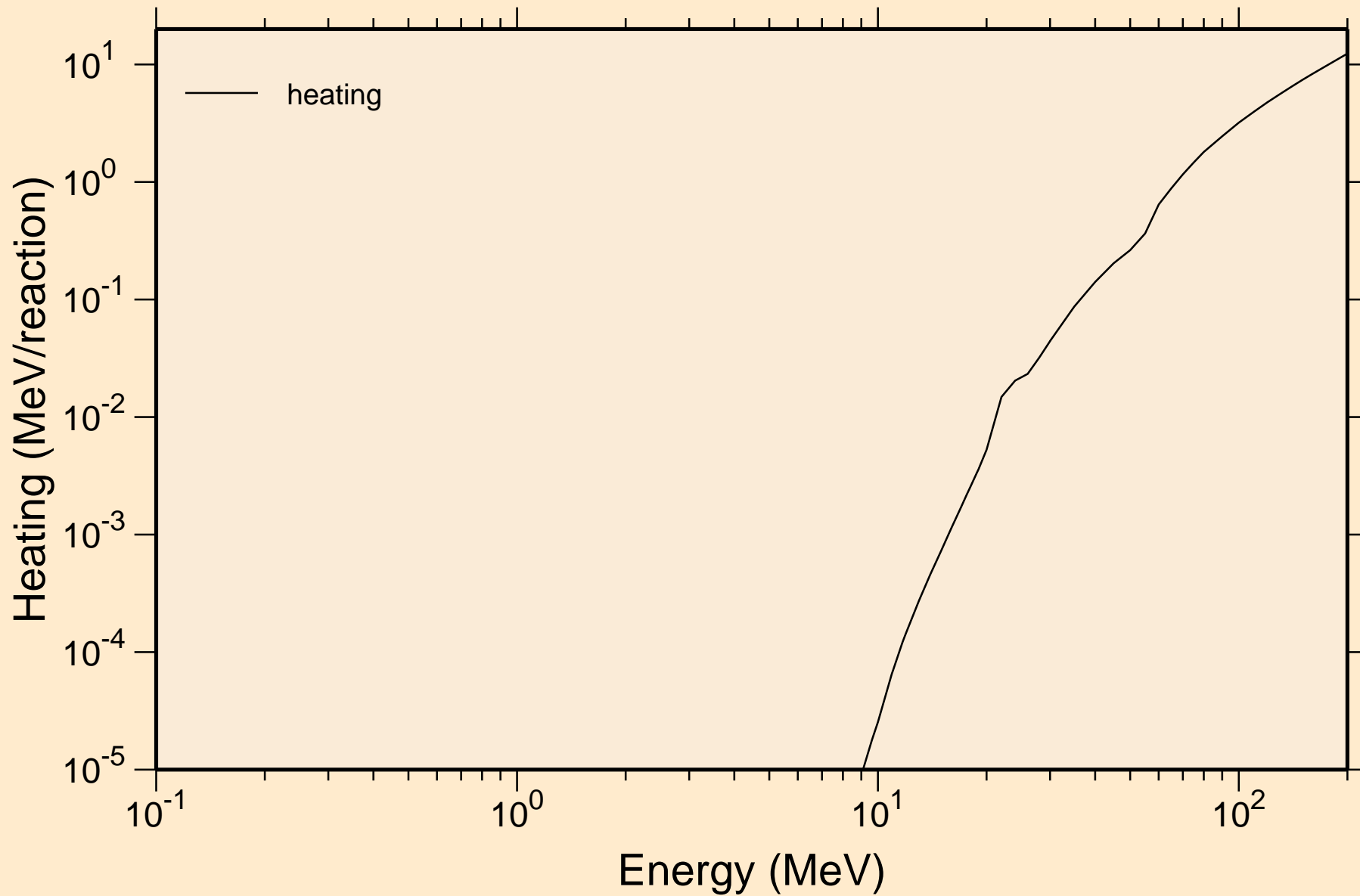


# IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

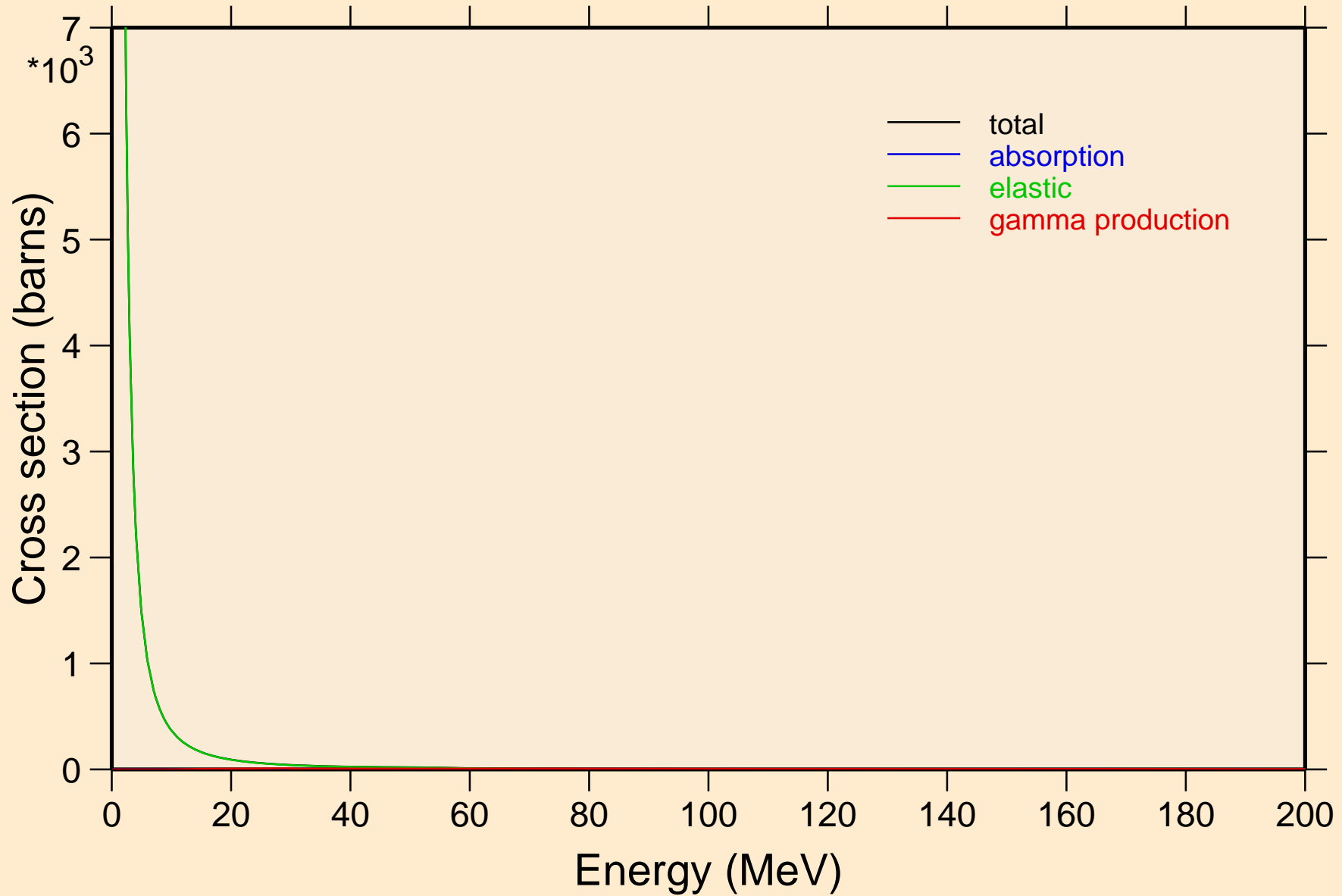


IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Heating



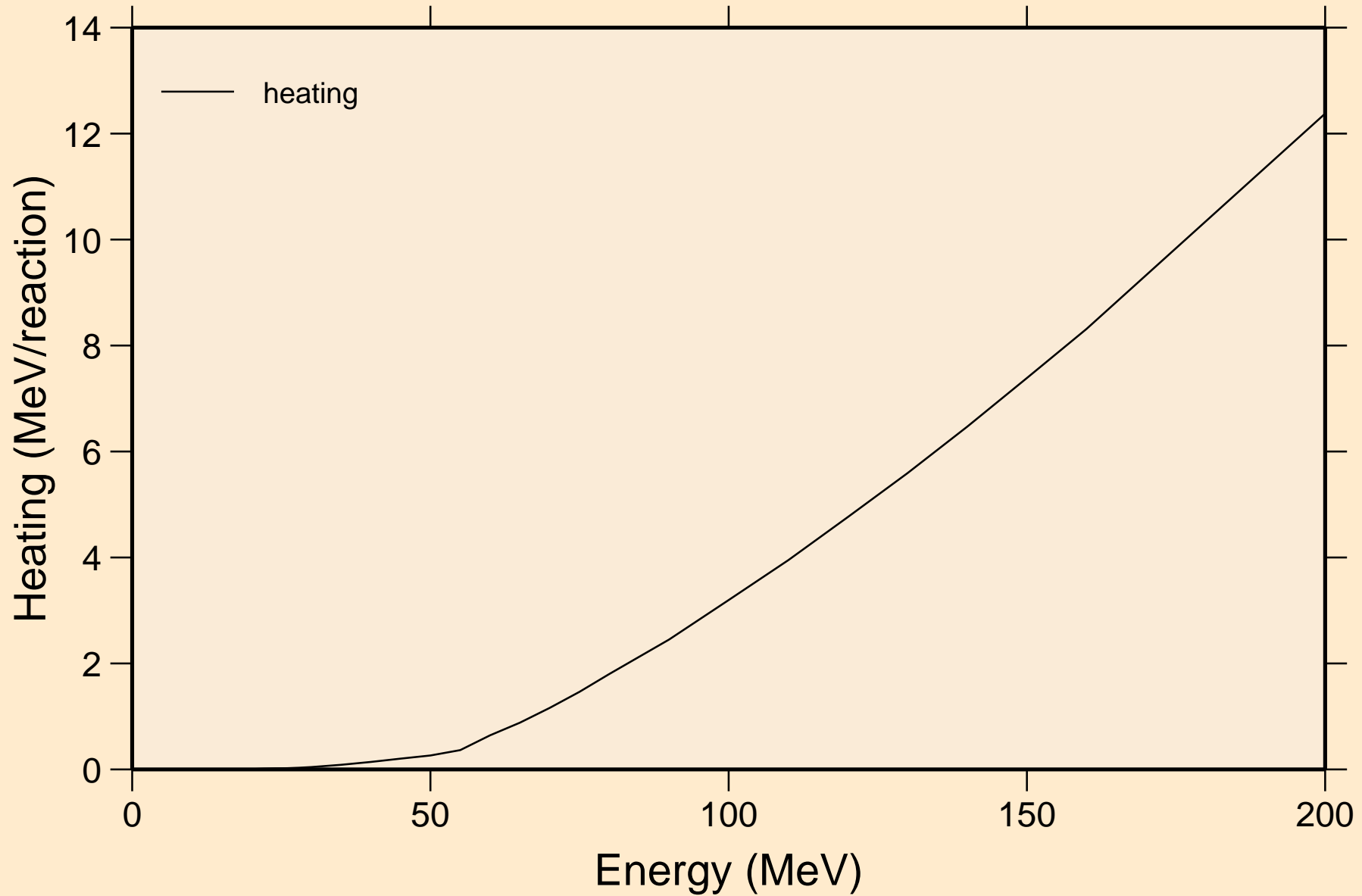
# IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



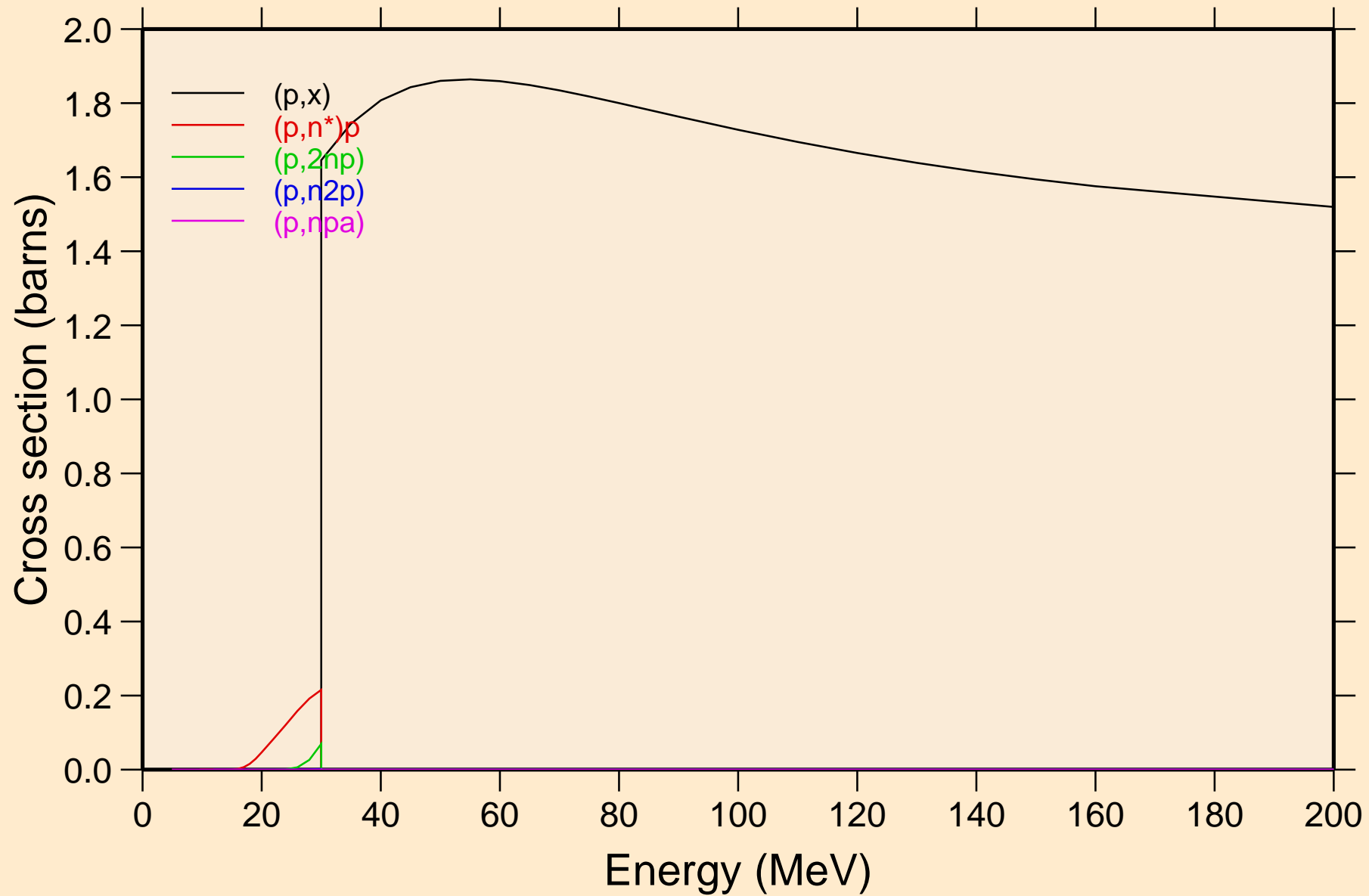
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## Heating



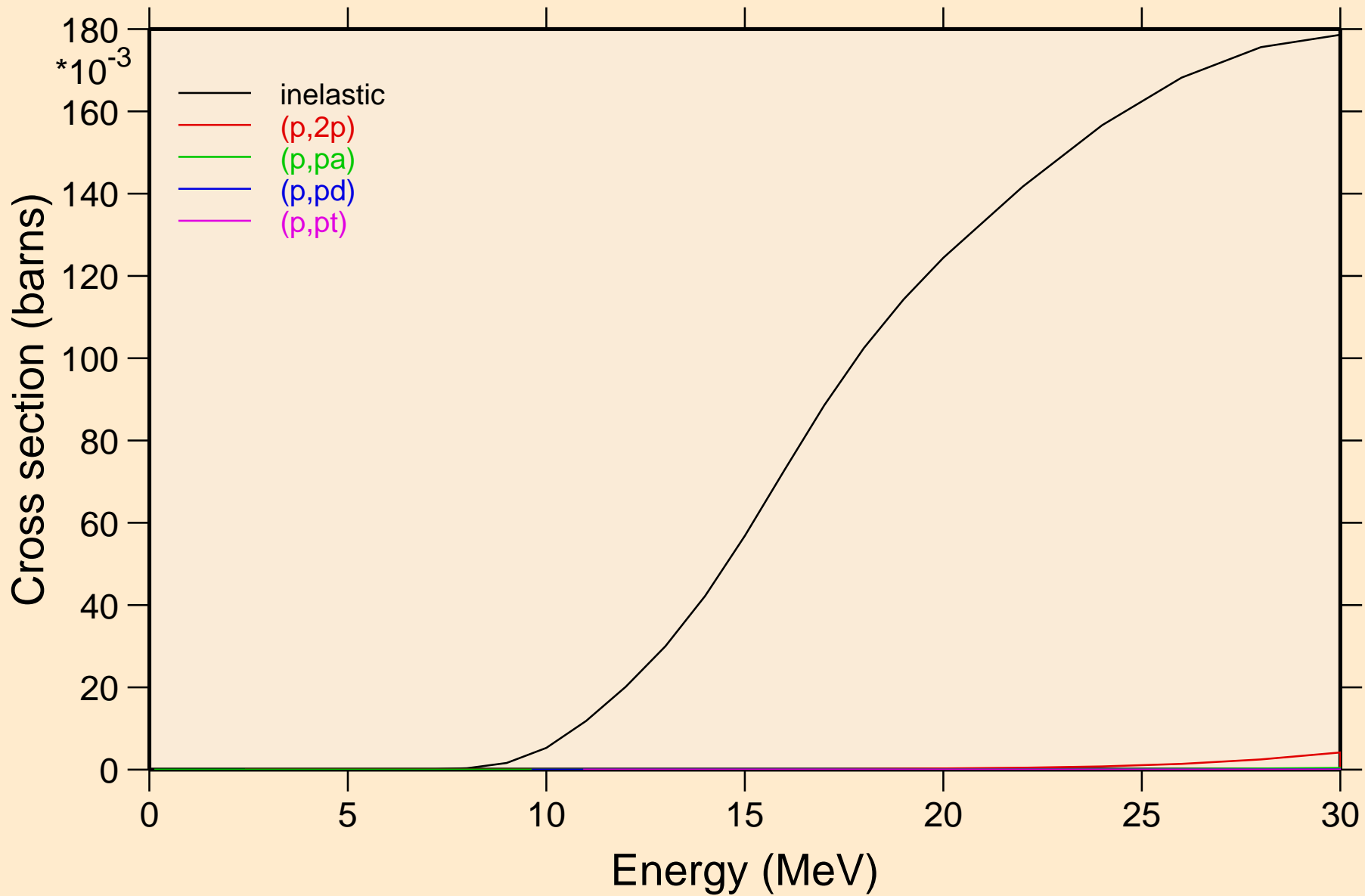
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## Threshold reactions

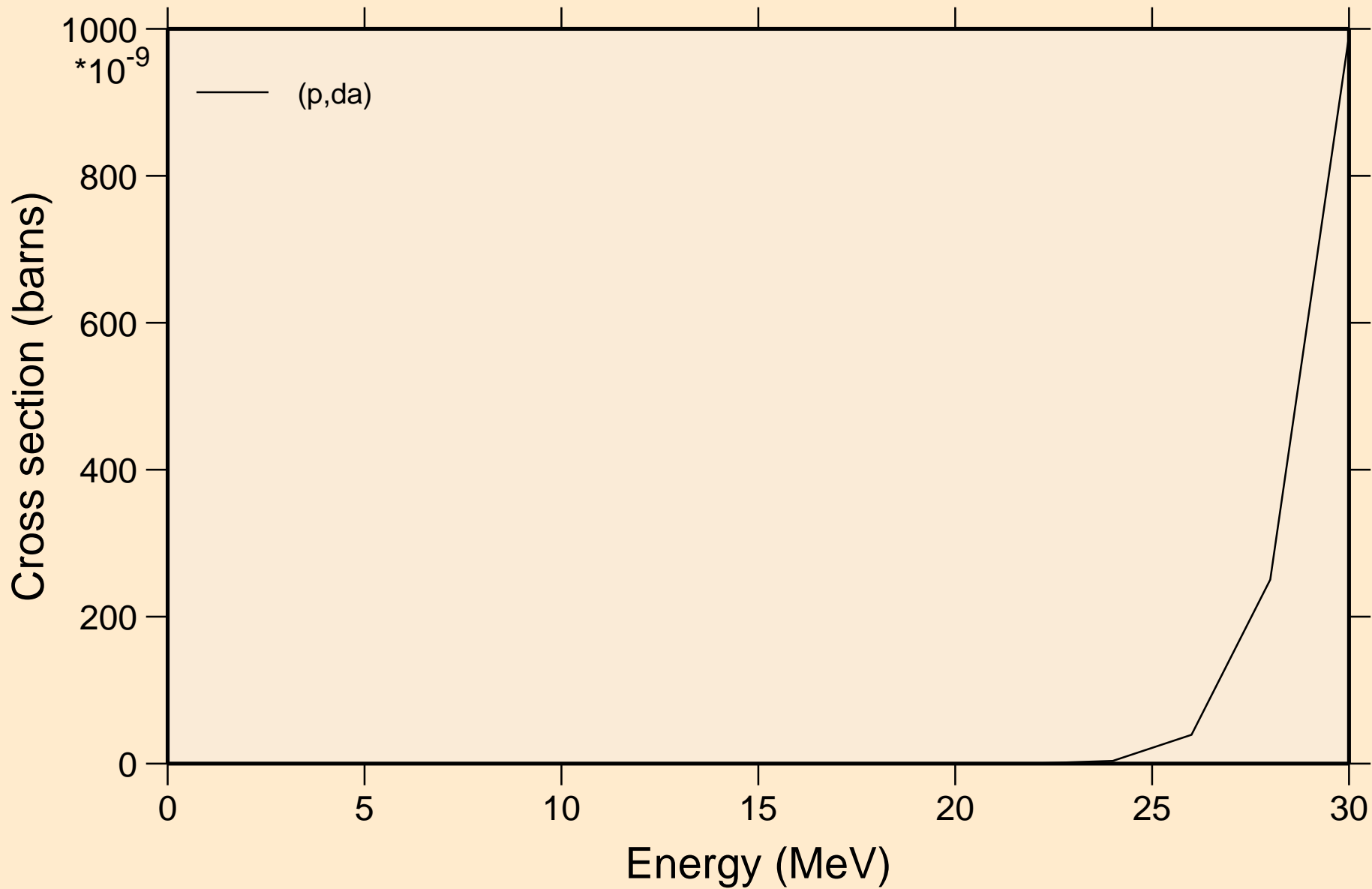


# IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K

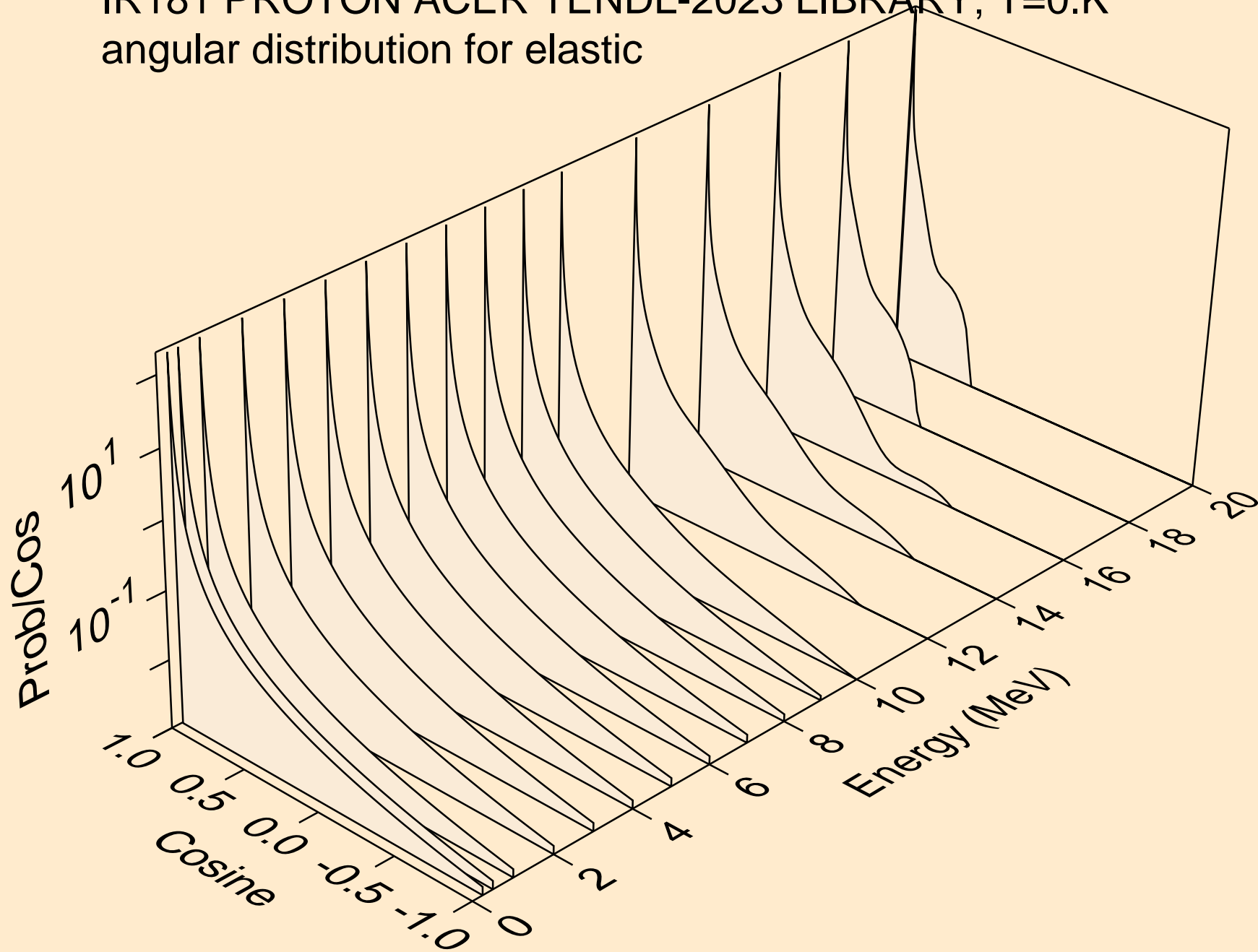
## Threshold reactions



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

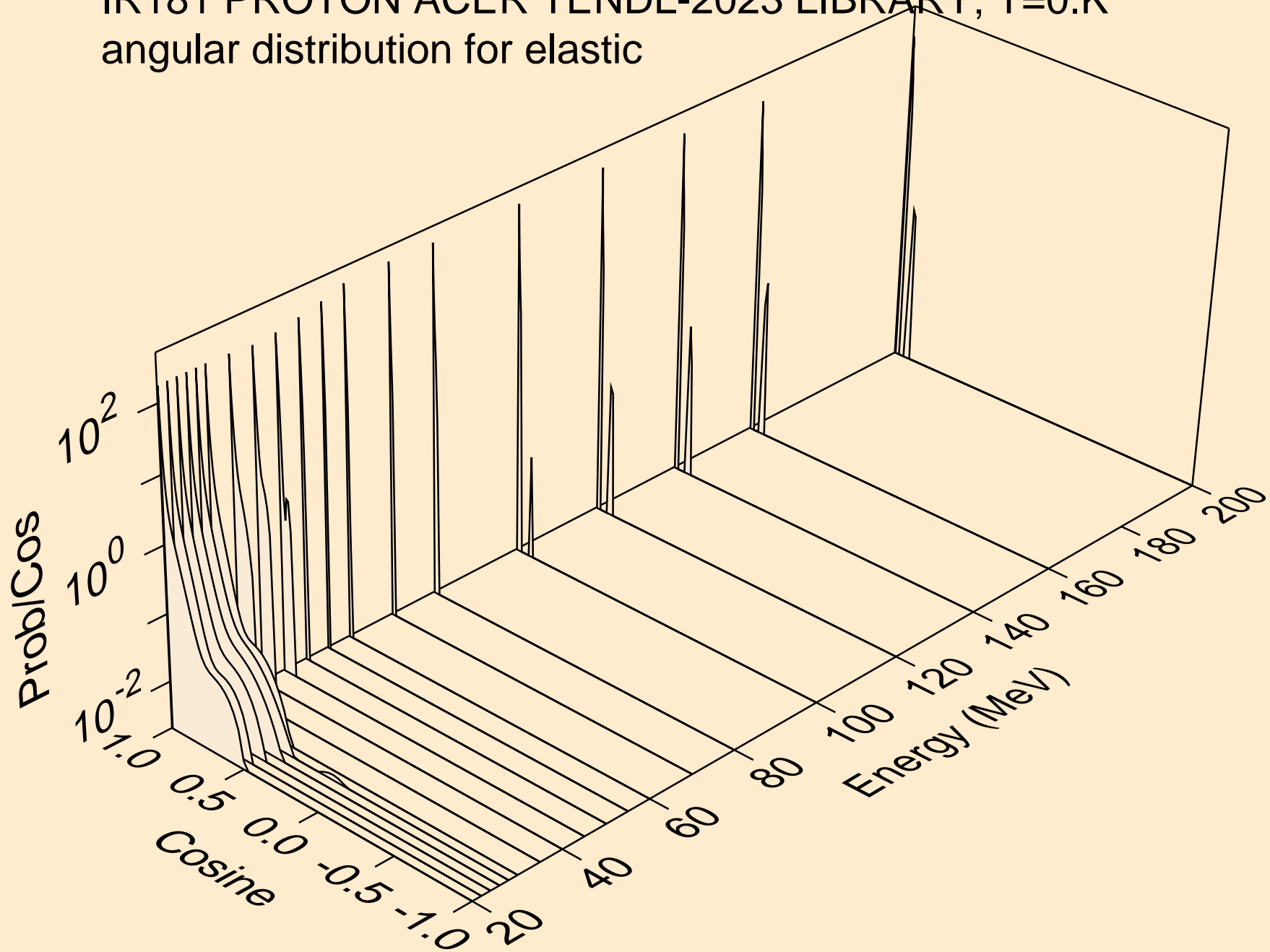


IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

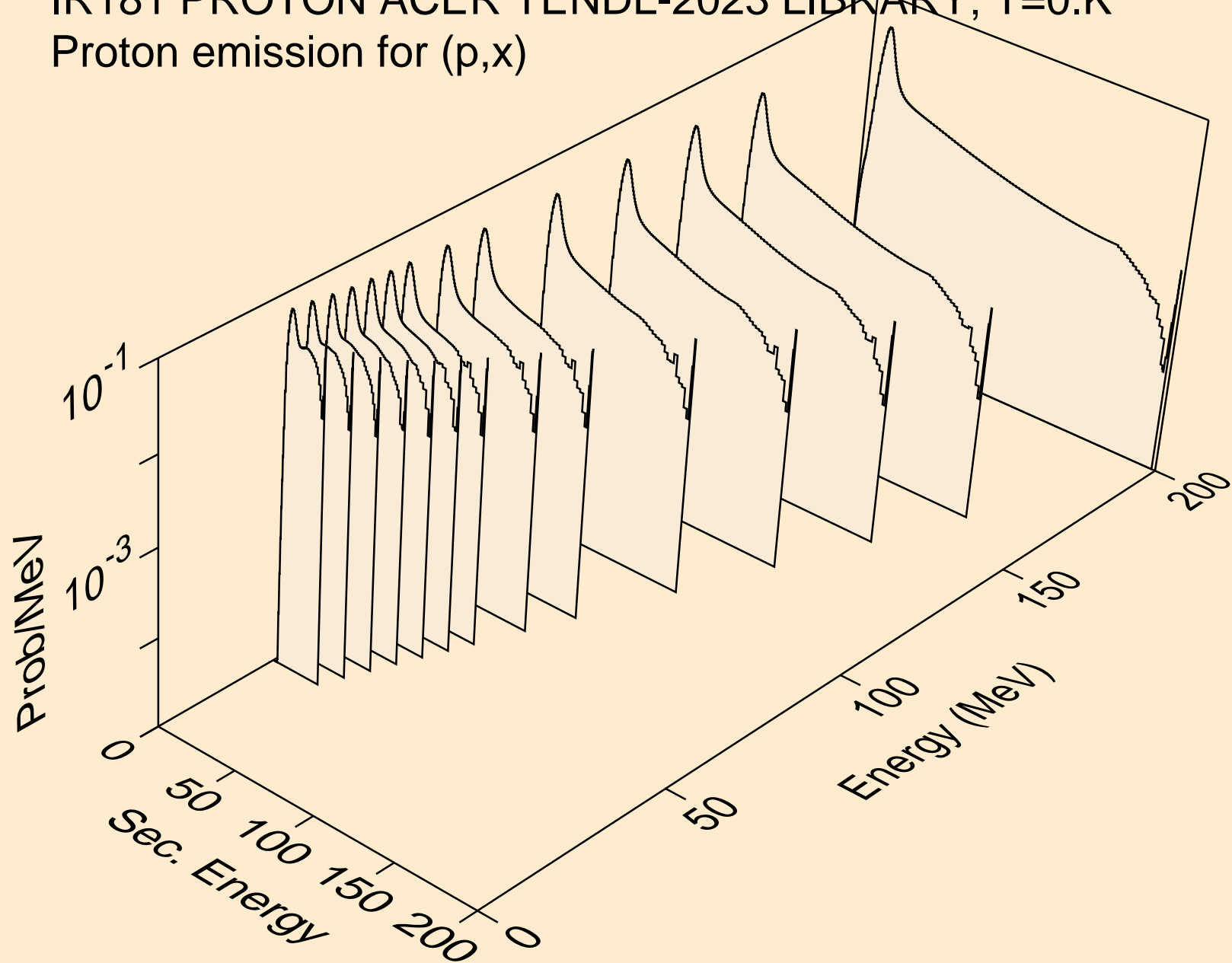




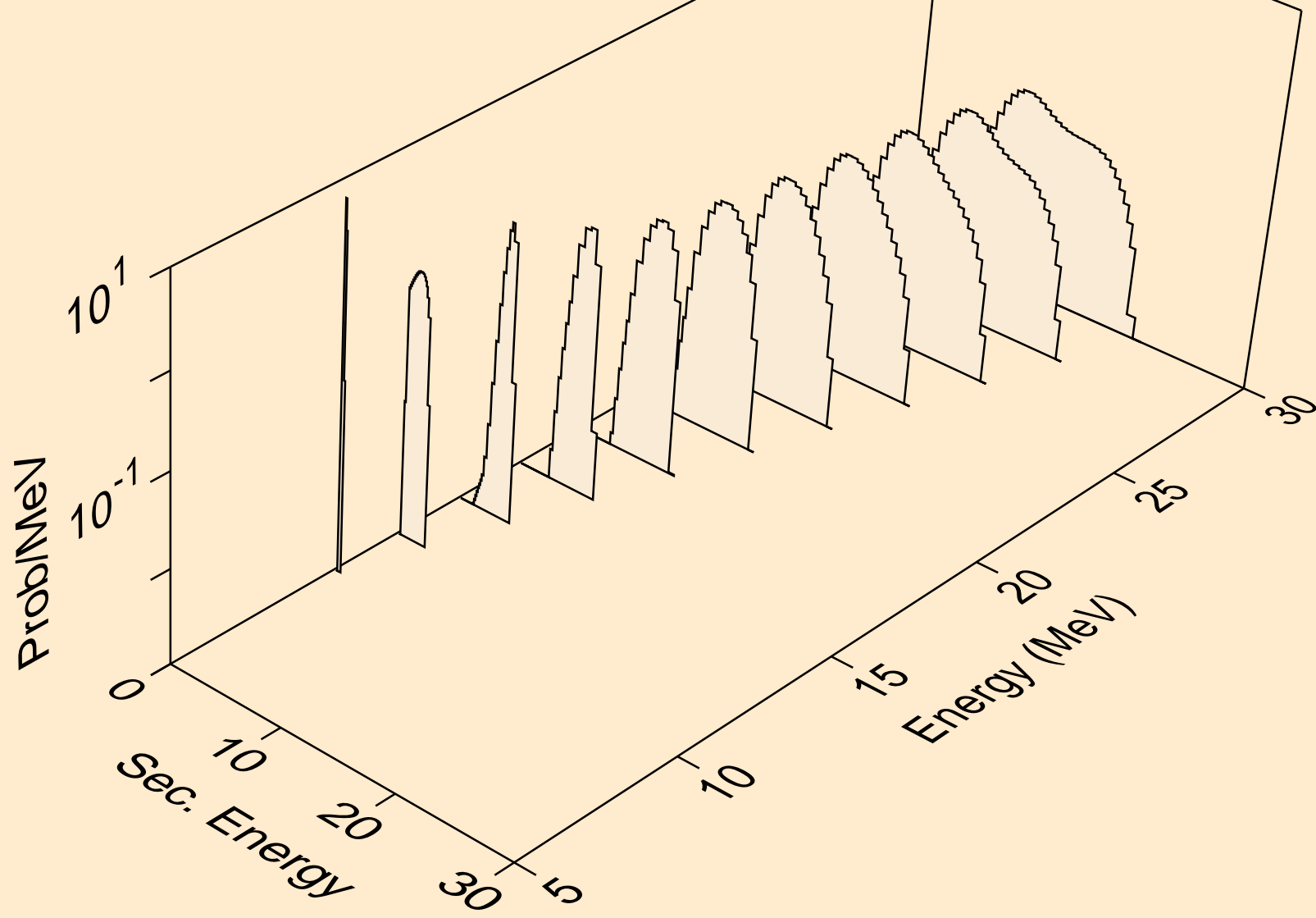
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



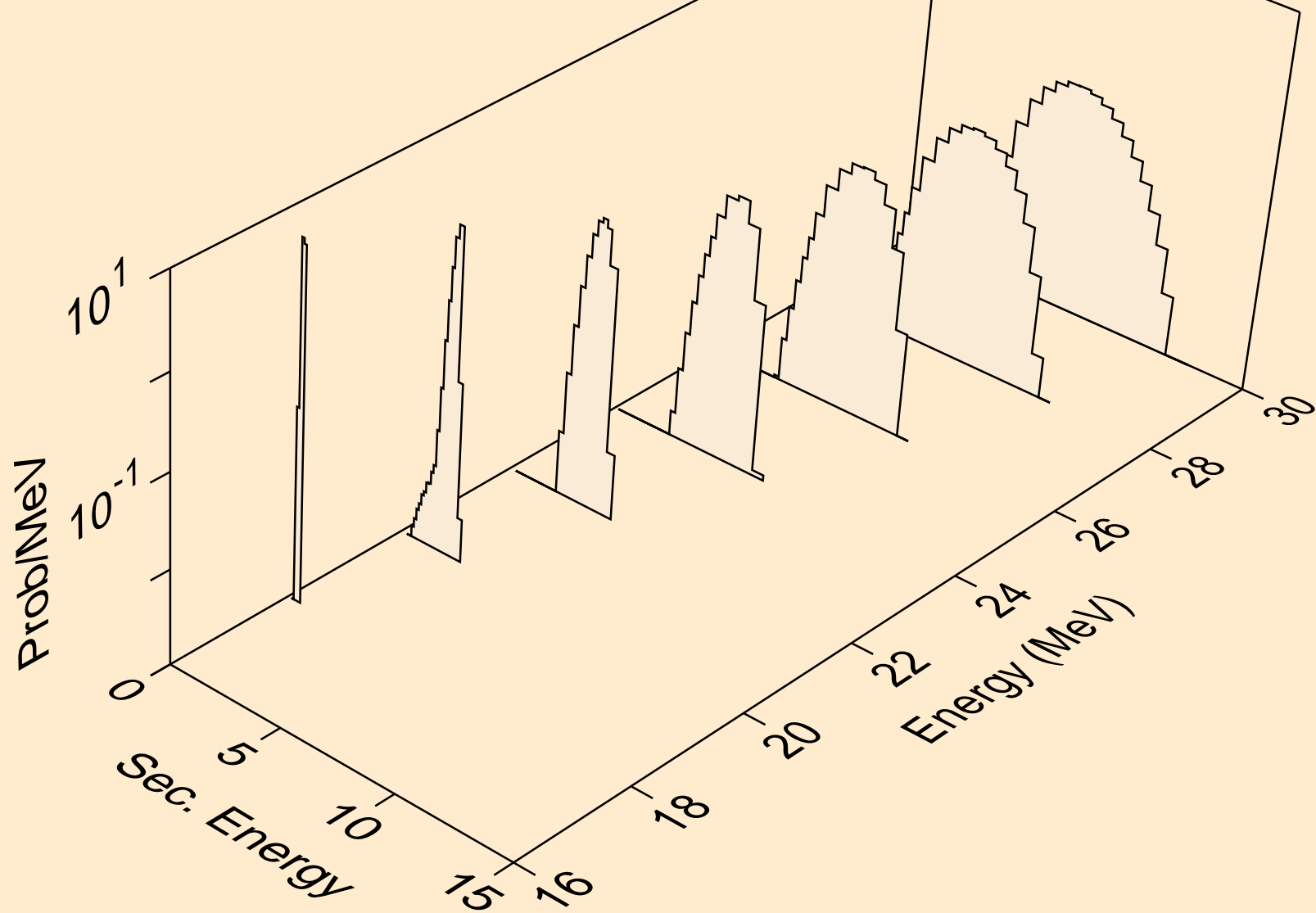
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



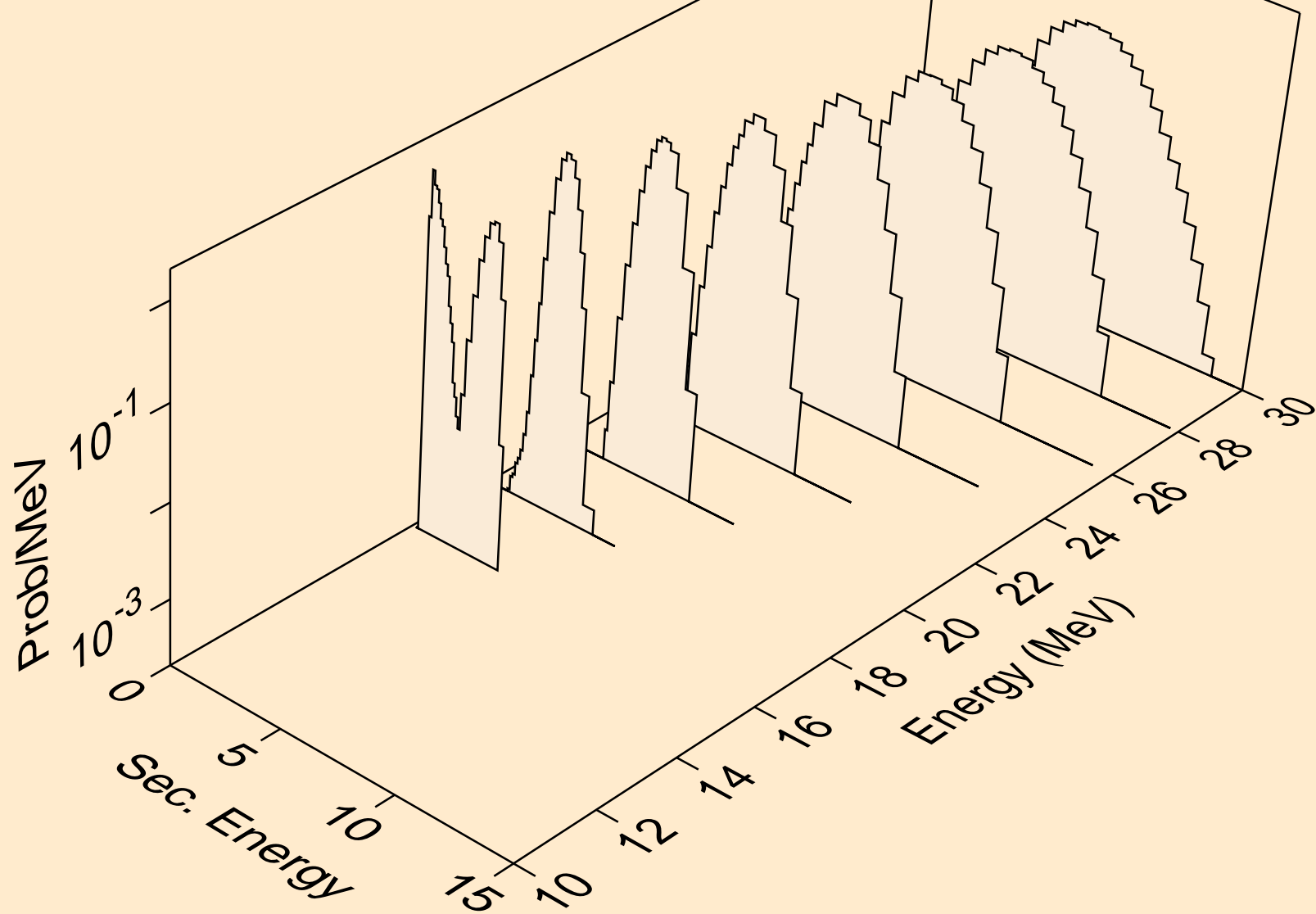
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



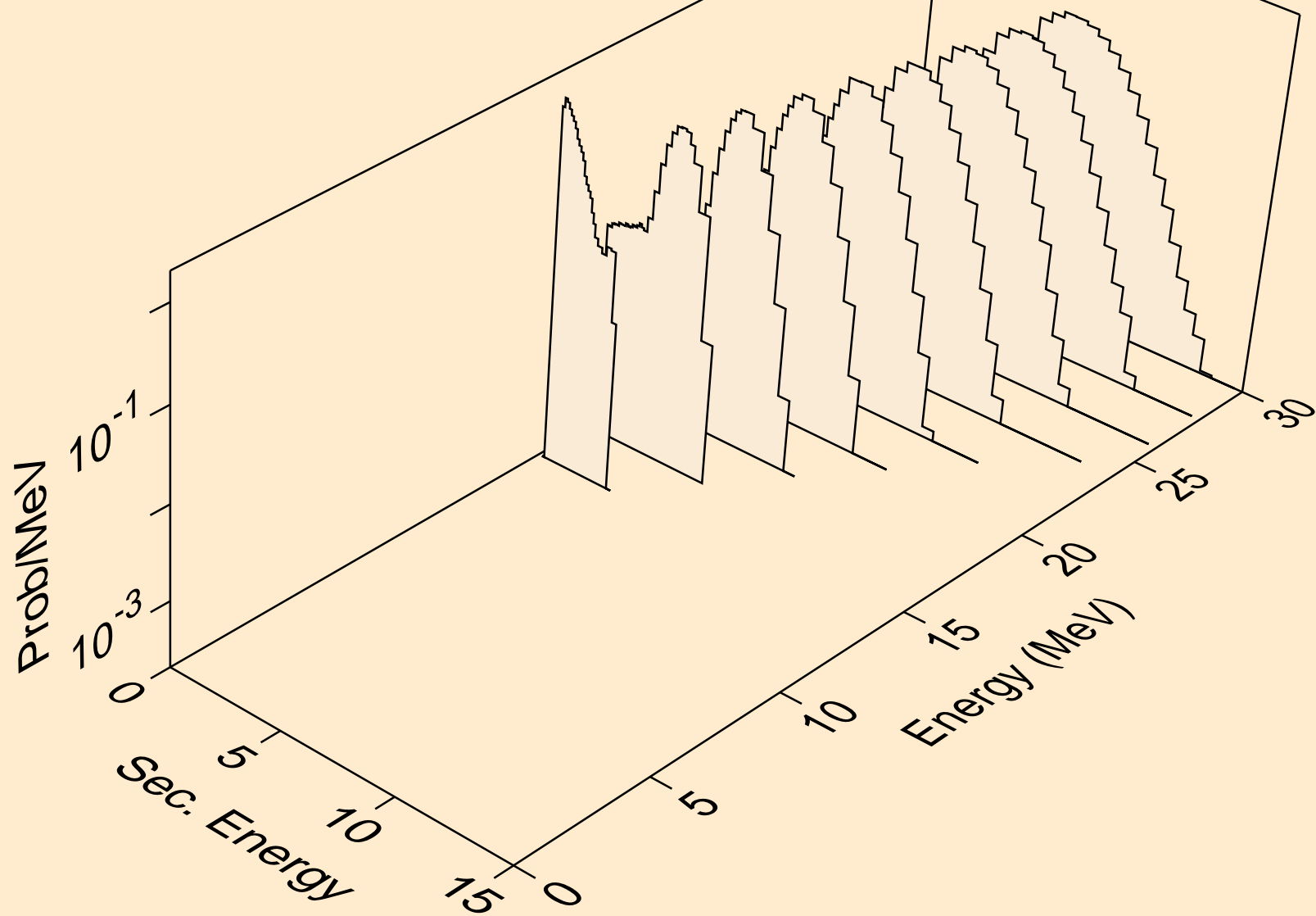
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



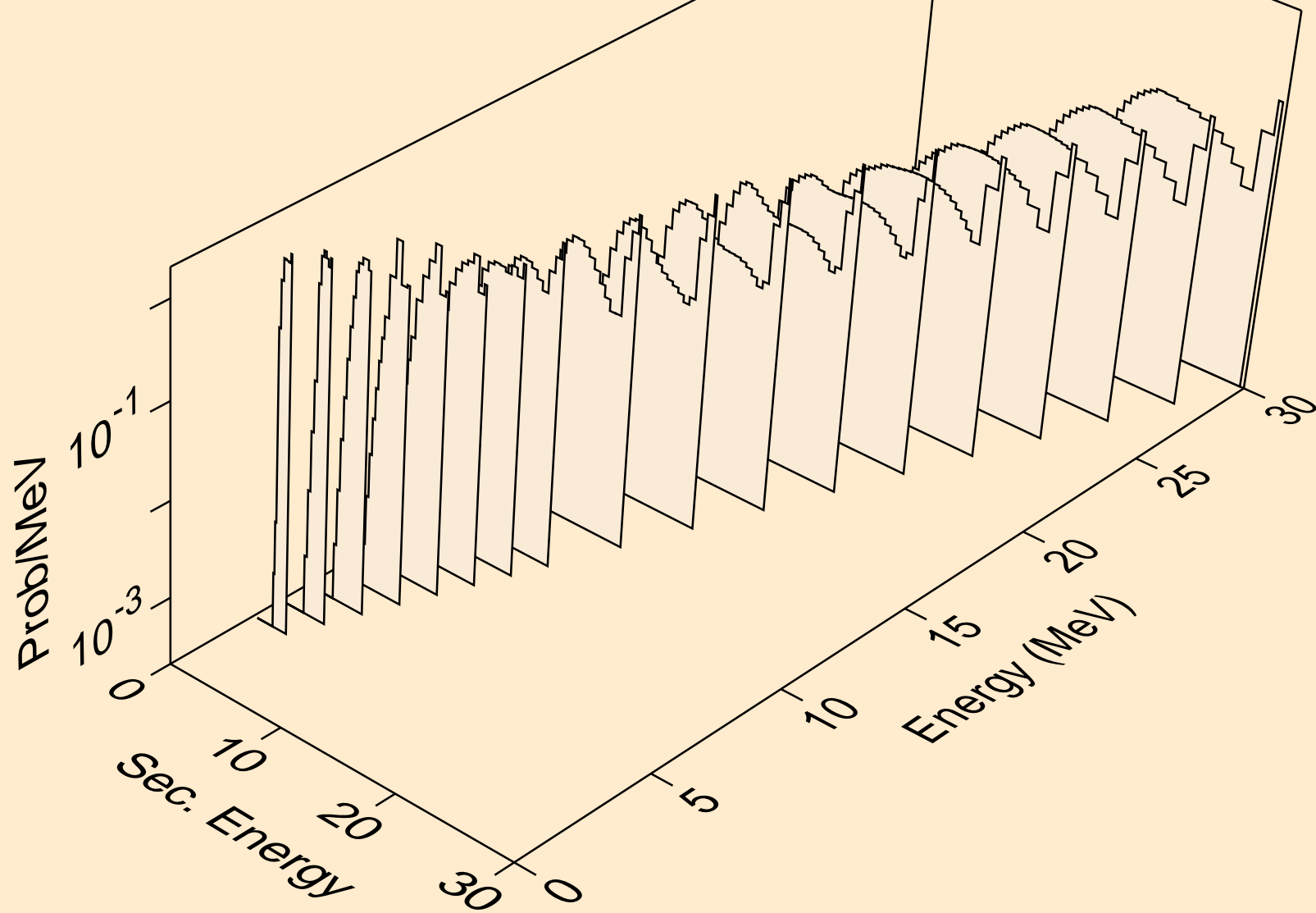
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



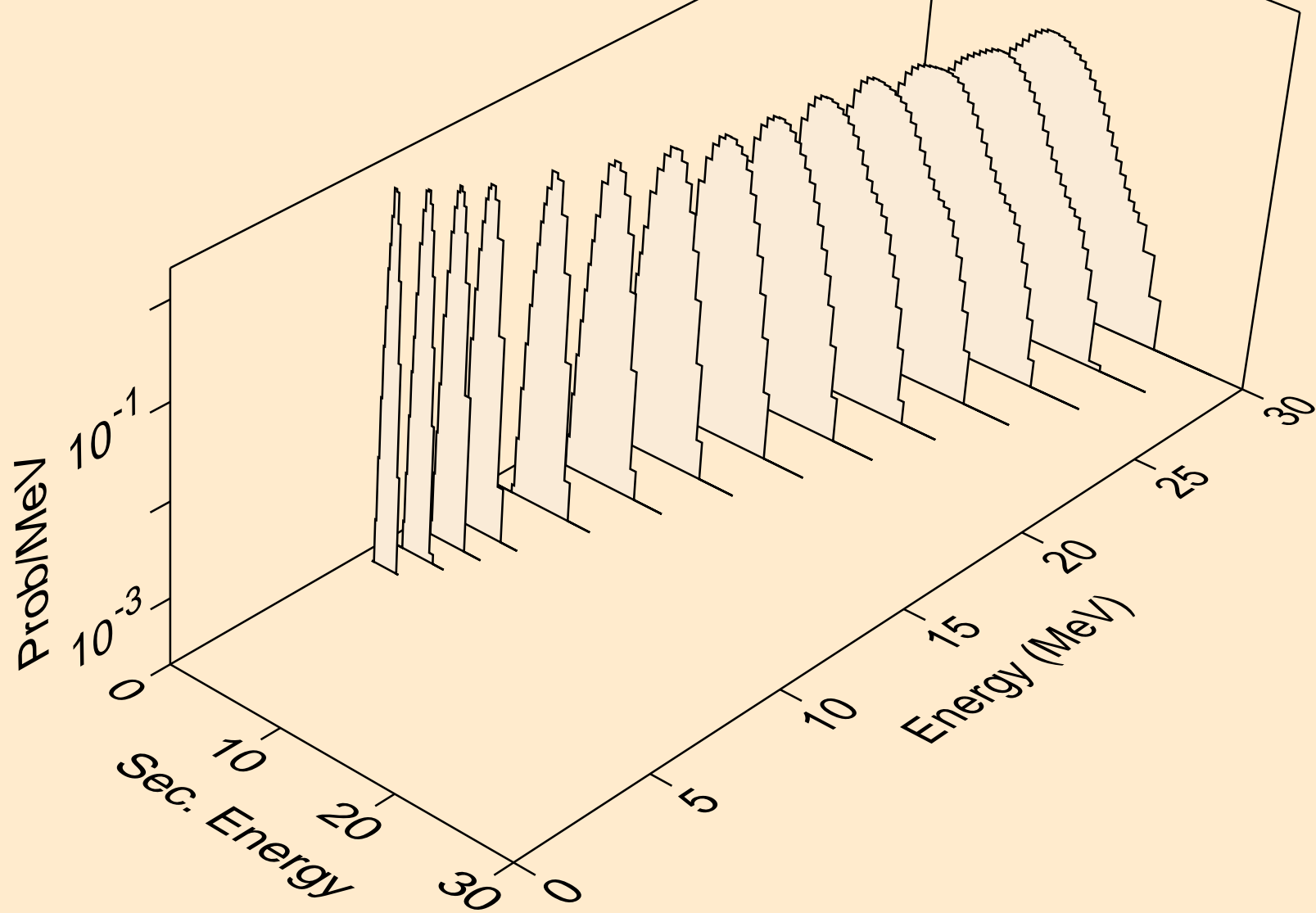
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

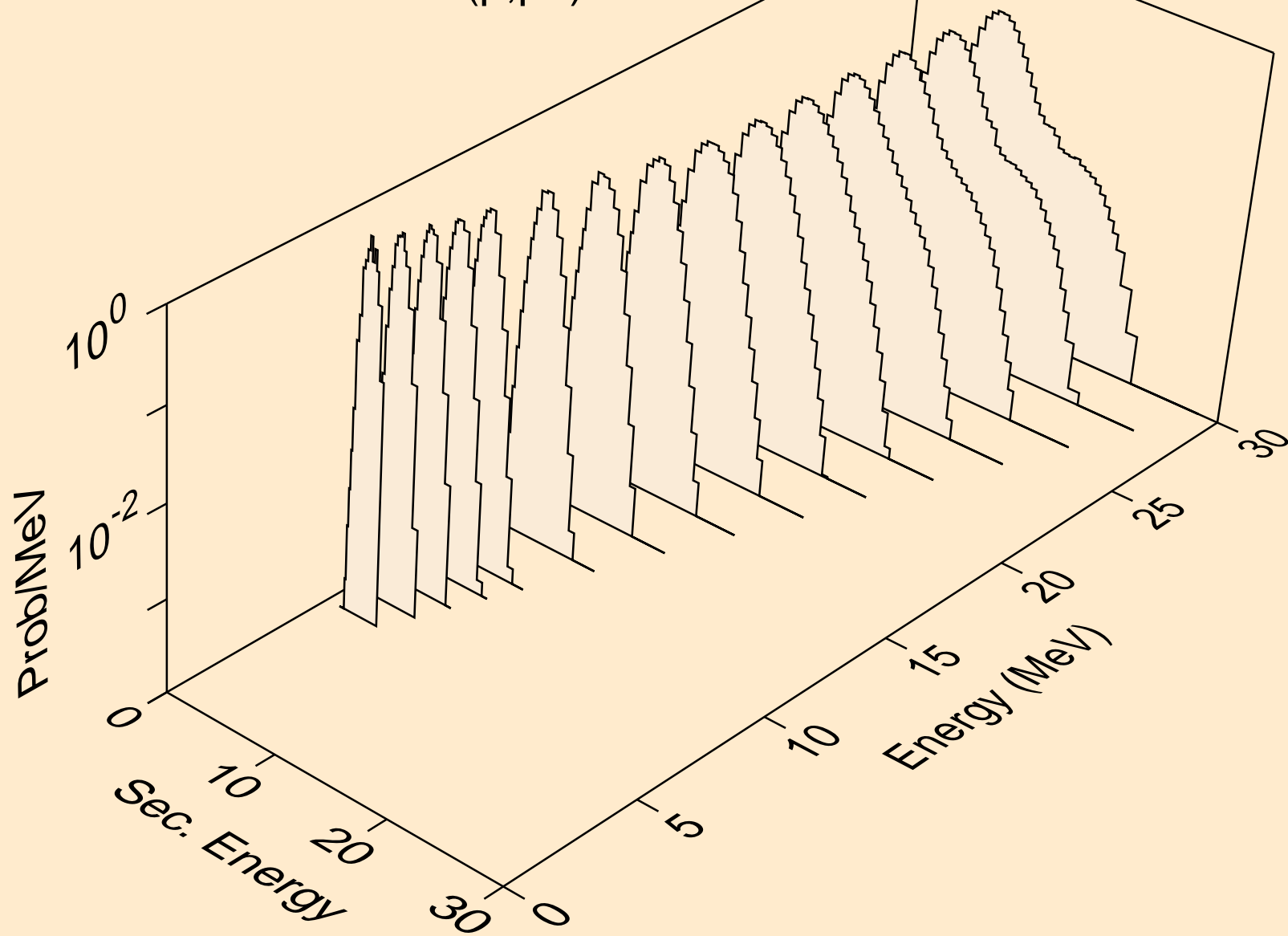


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Proton emission for (p,2p)

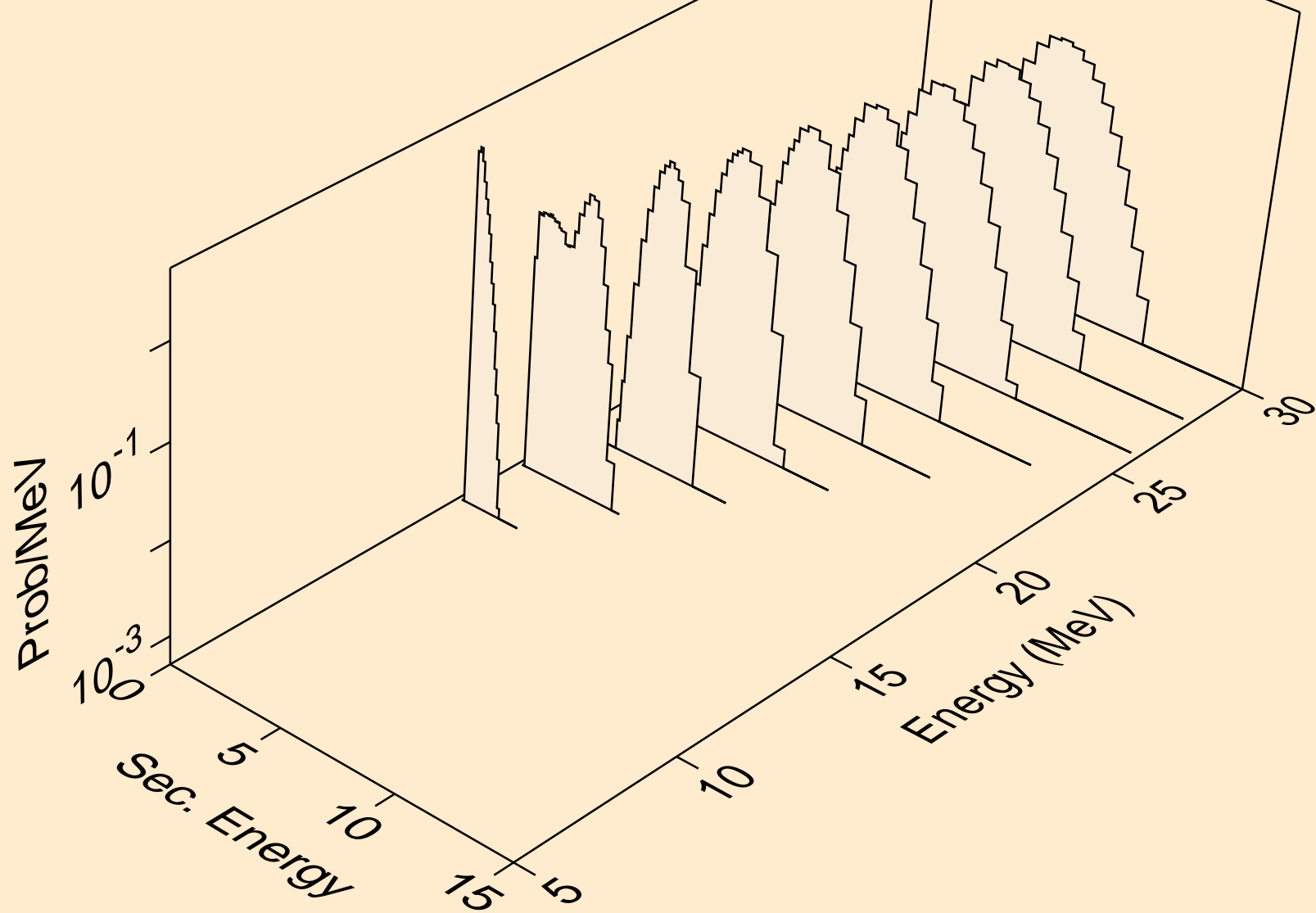




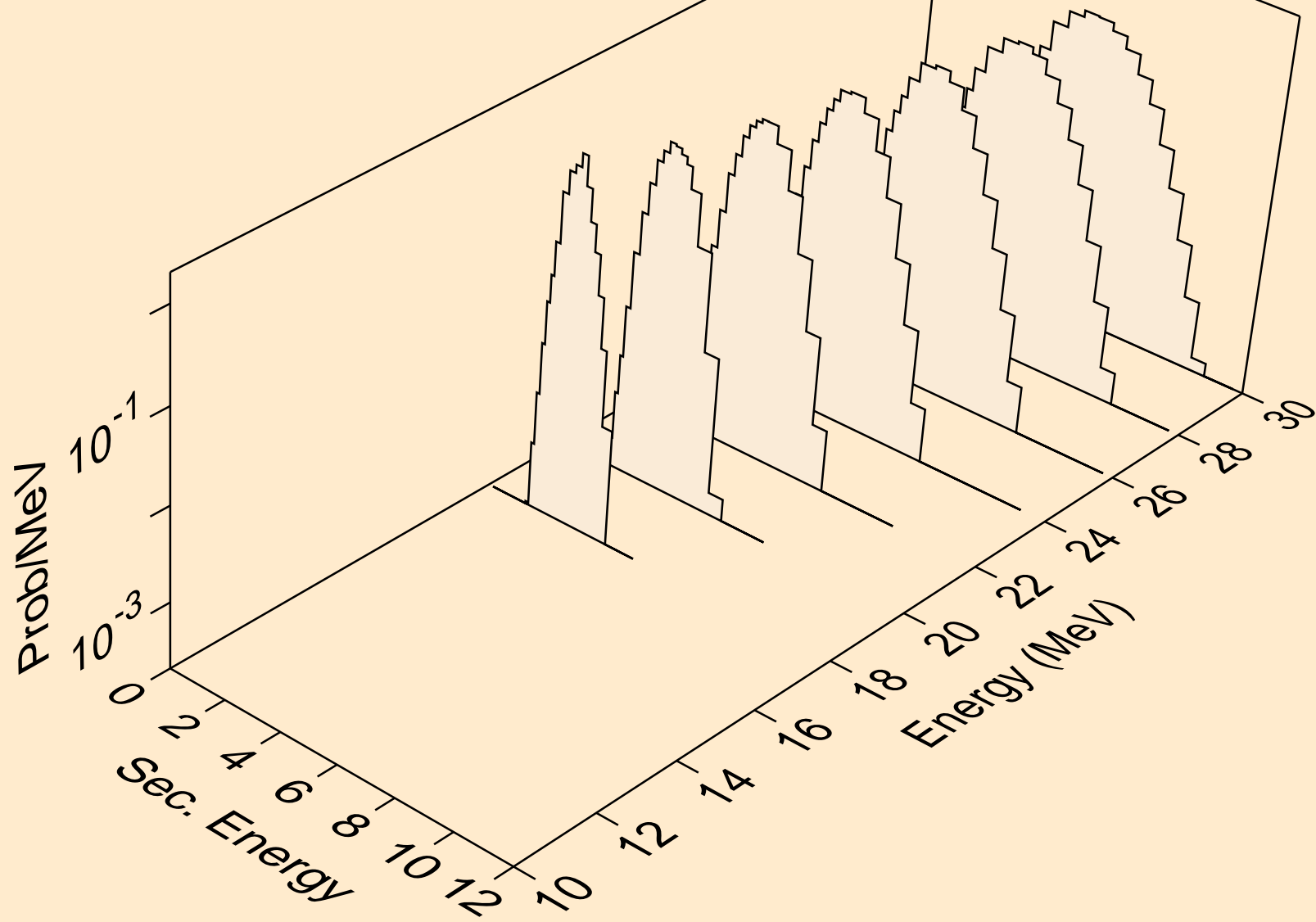
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Proton emission for (p,pa)



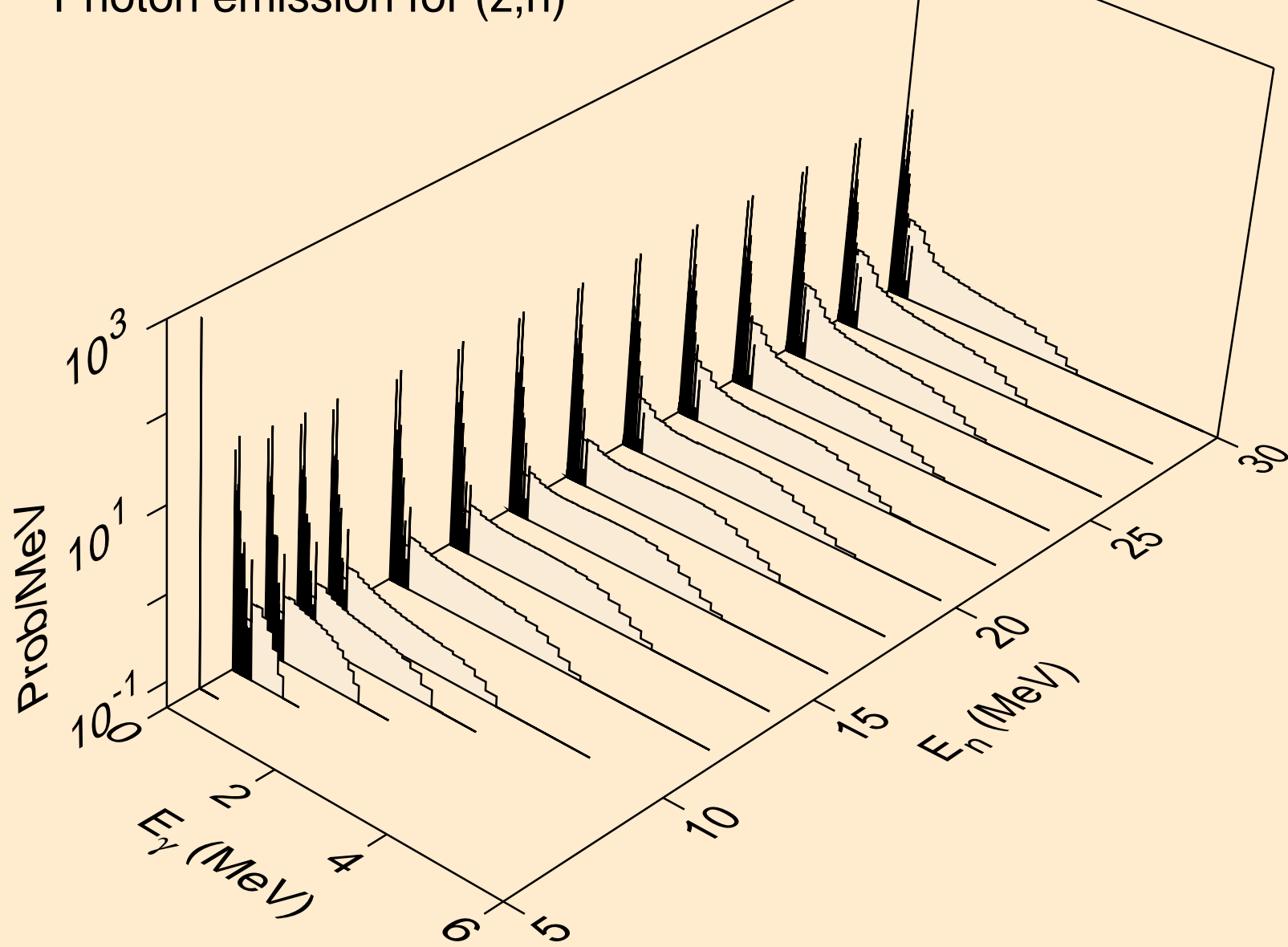
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



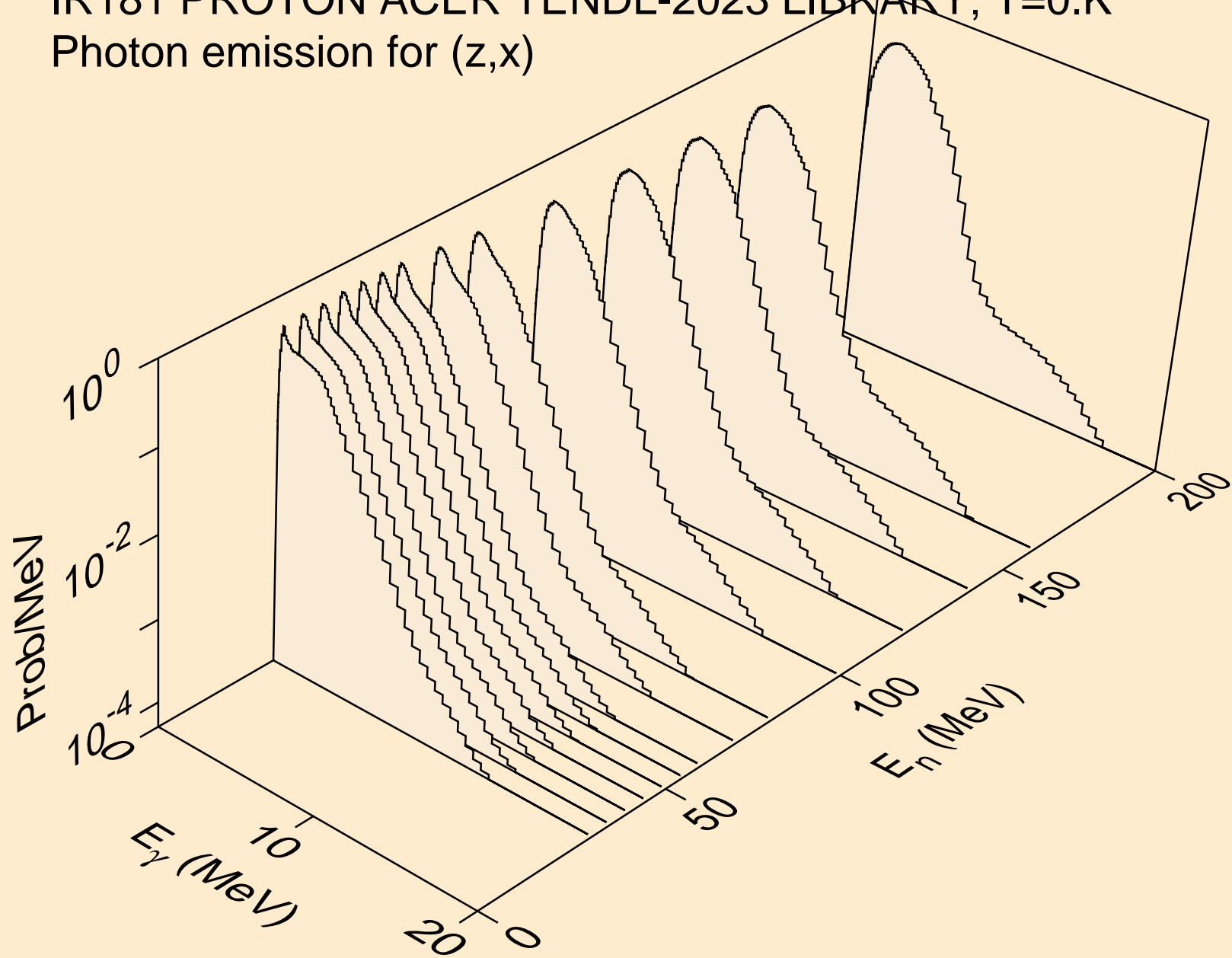
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Proton emission for (p,pt)



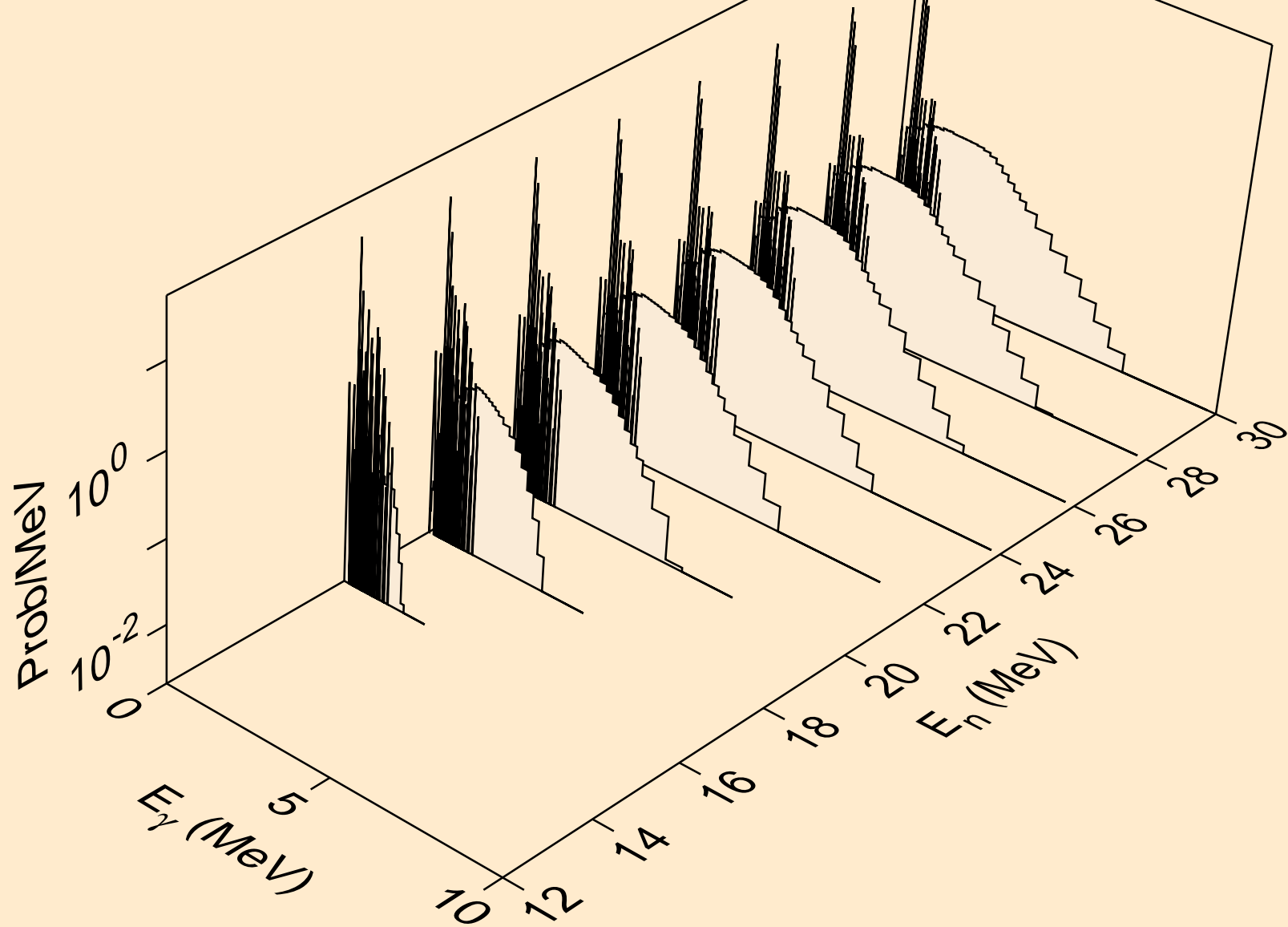
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Photon emission for (z,n)



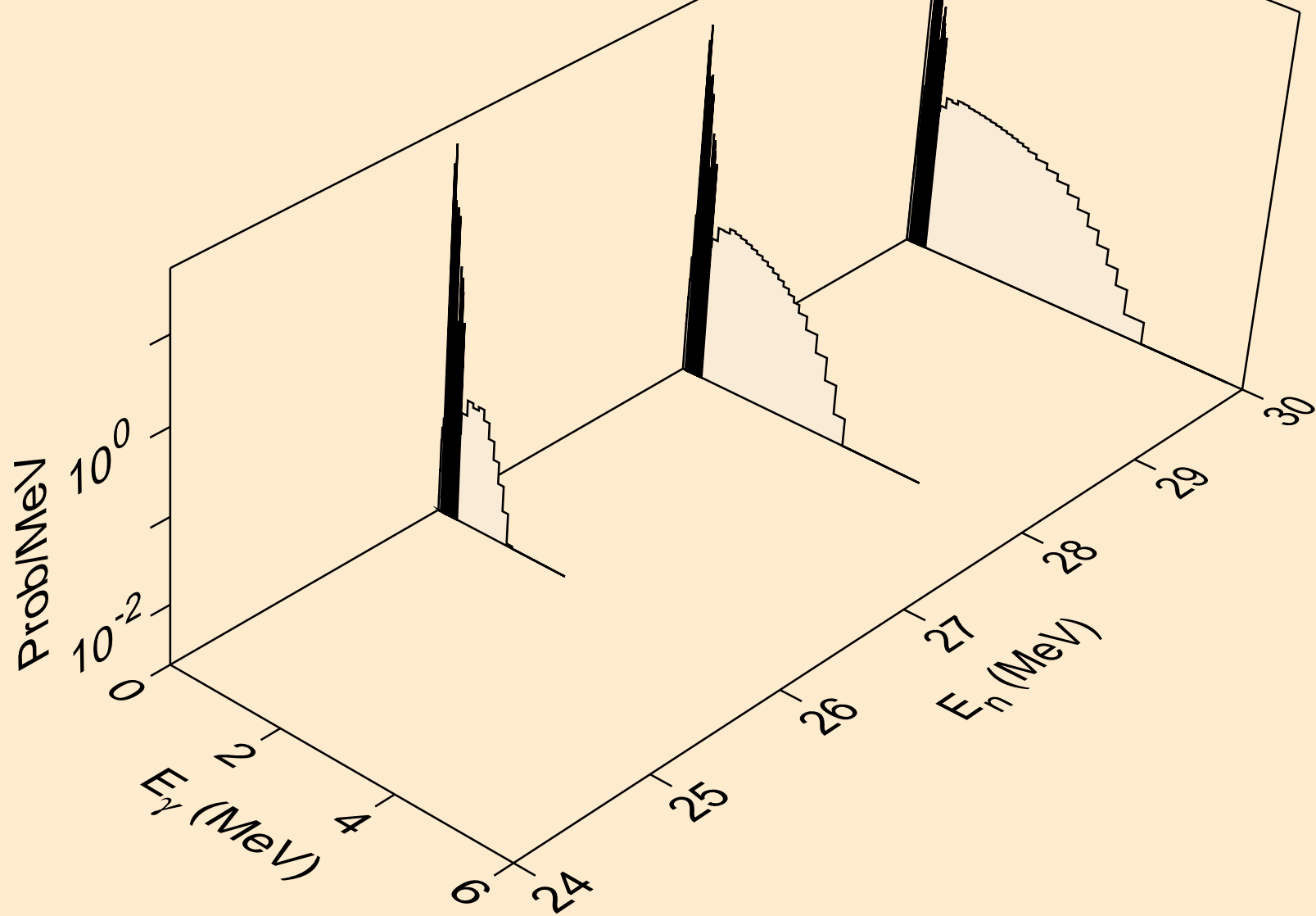
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Photon emission for (z,x)



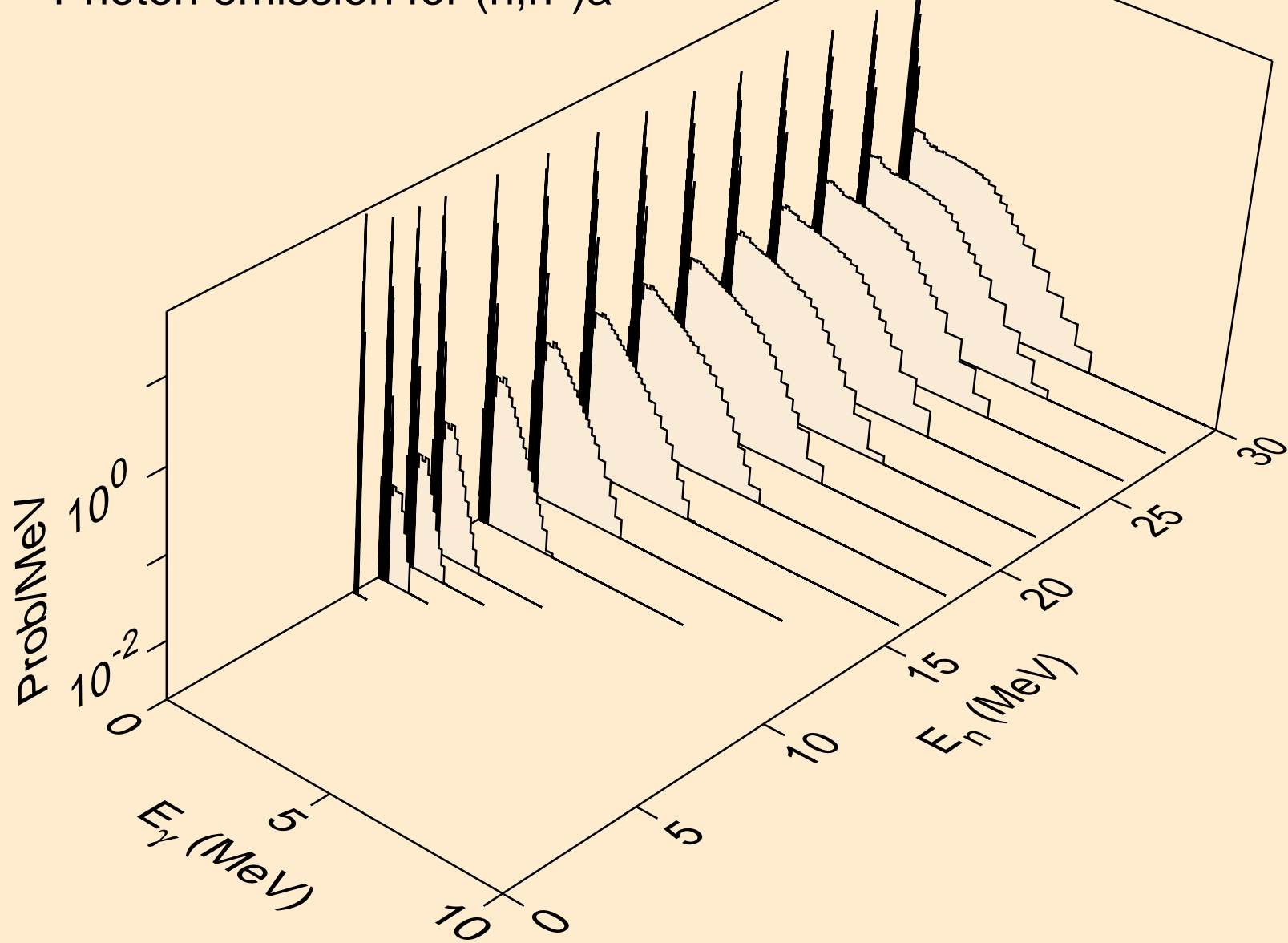
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

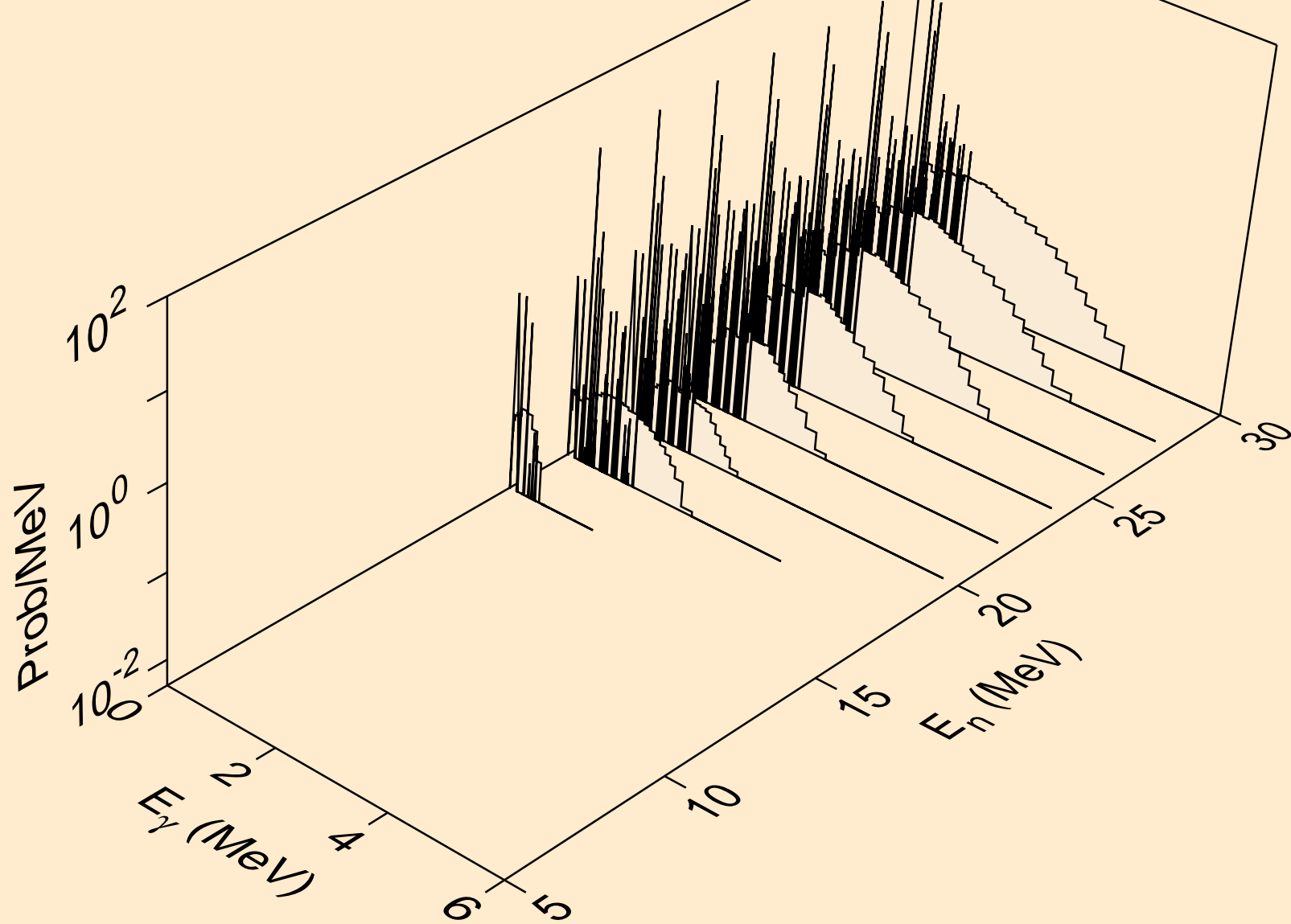


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Photon emission for (n,n\*)a

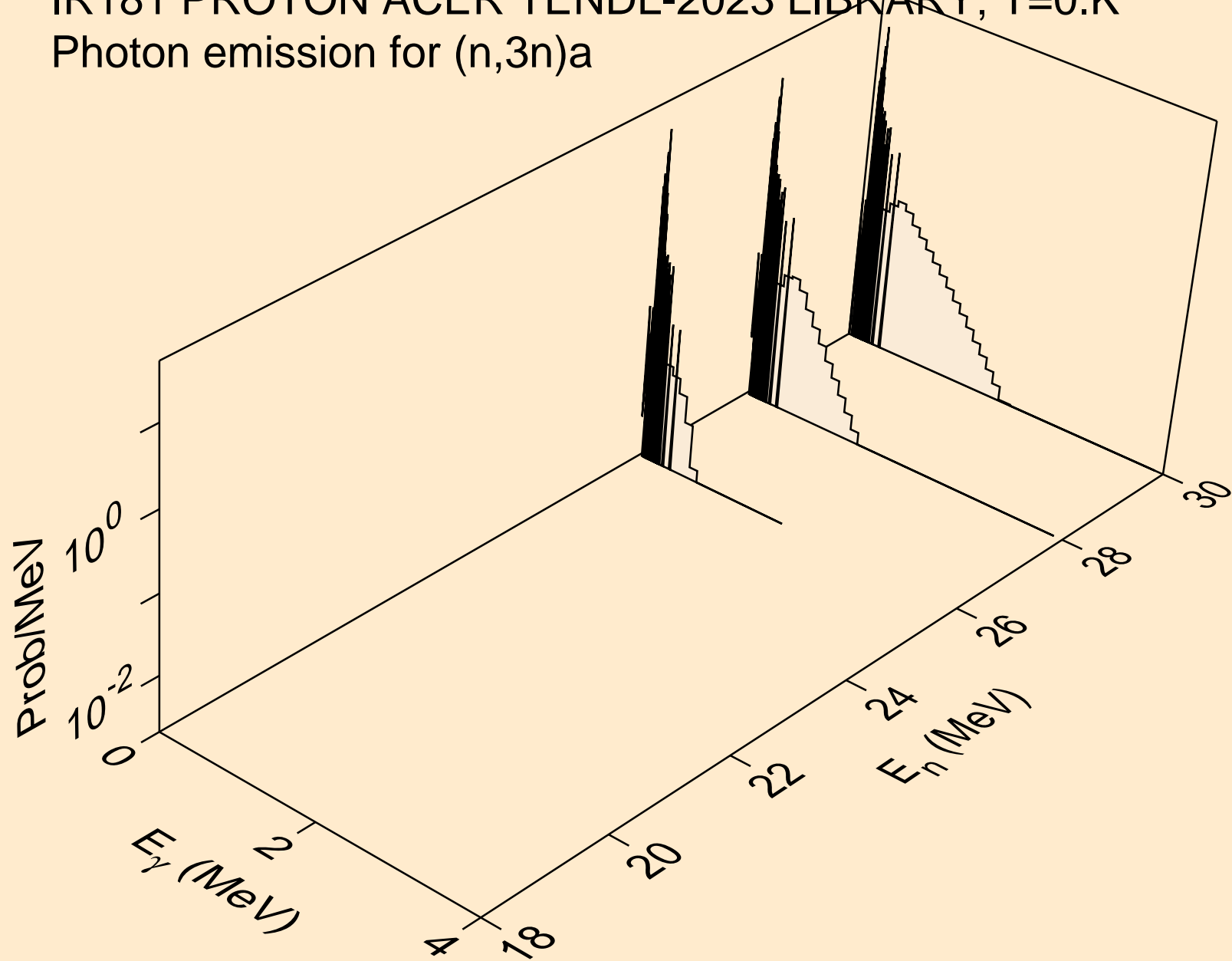




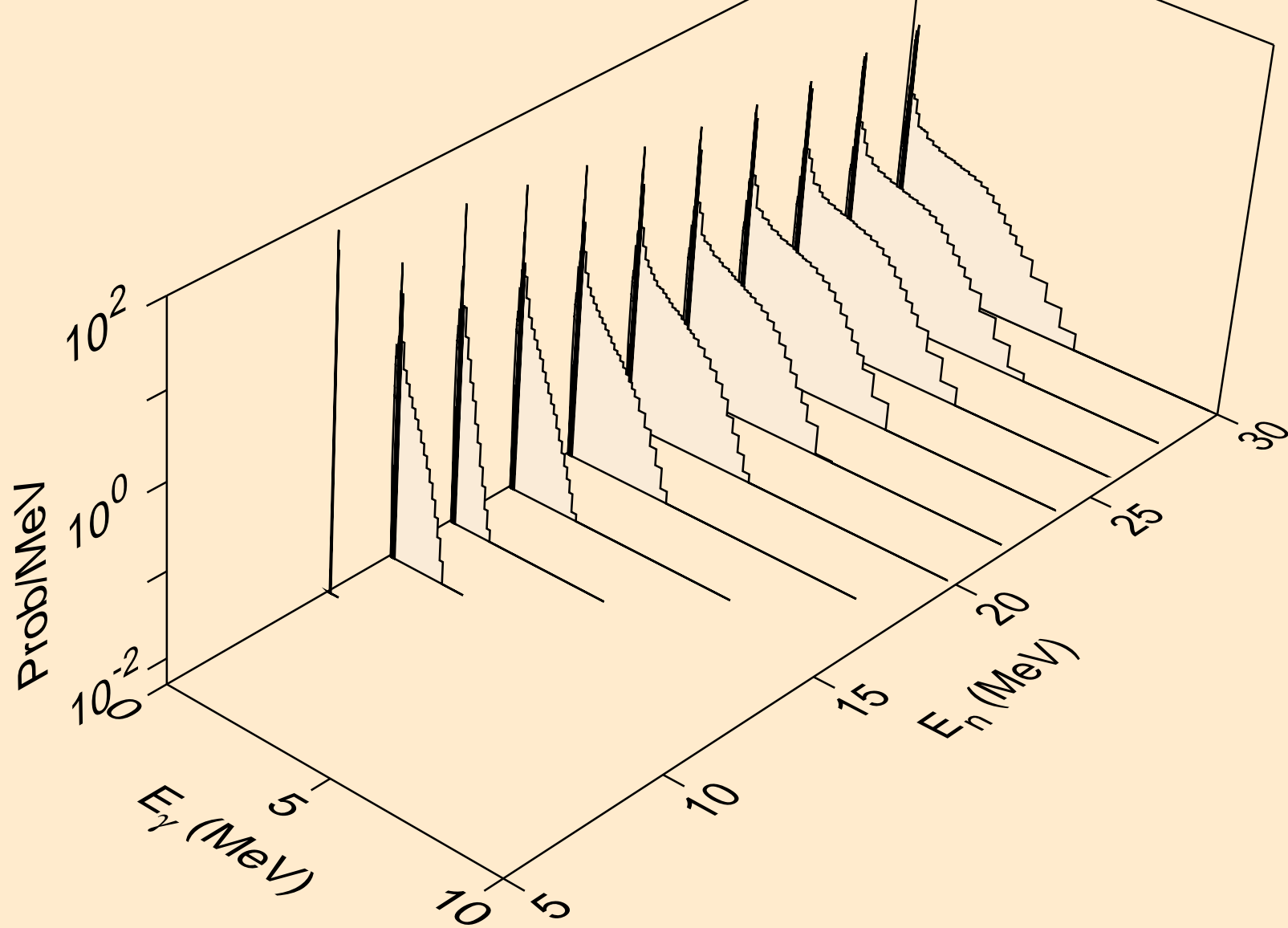
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Photon emission for (n,2n)a



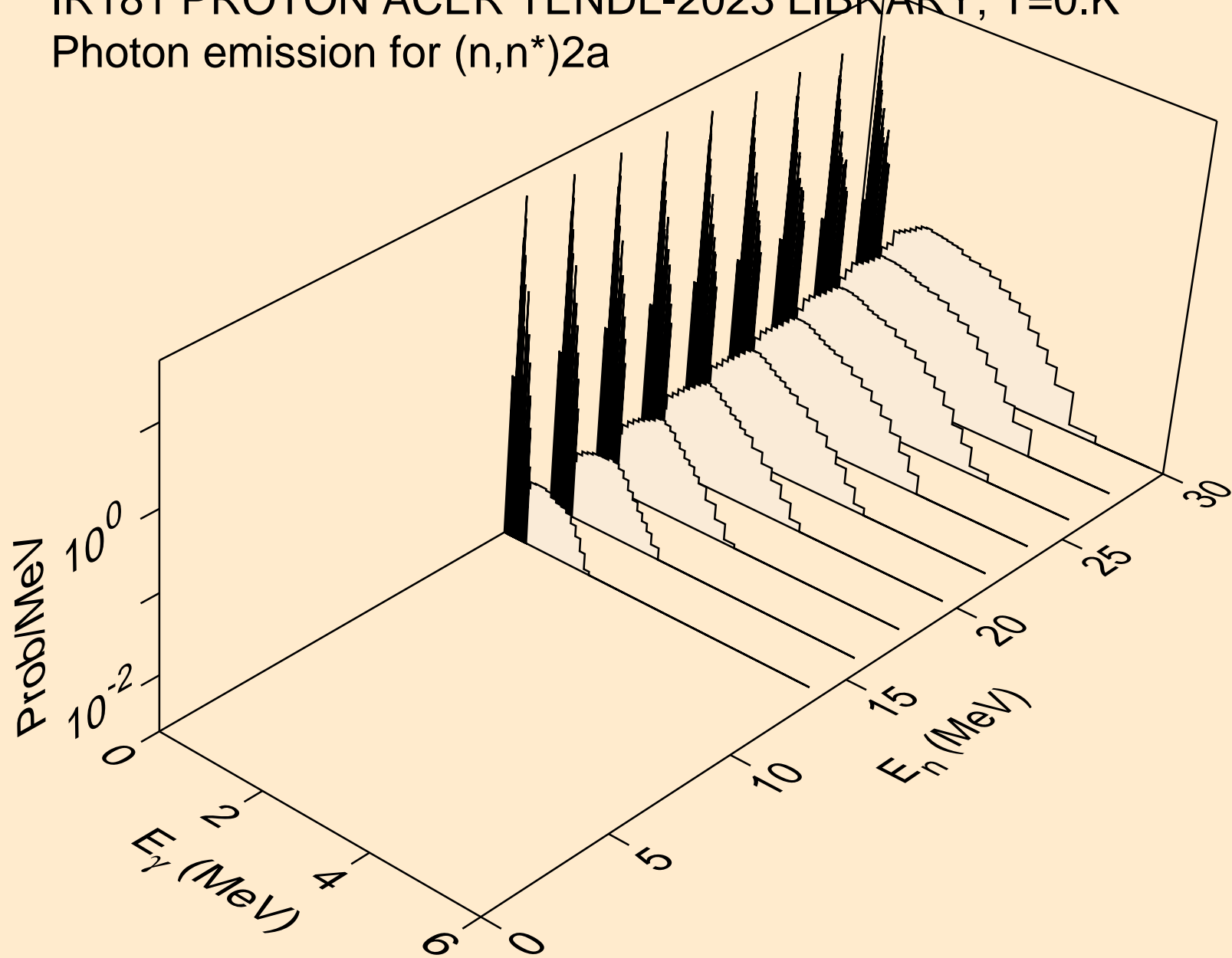
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Photon emission for (n,3n)a



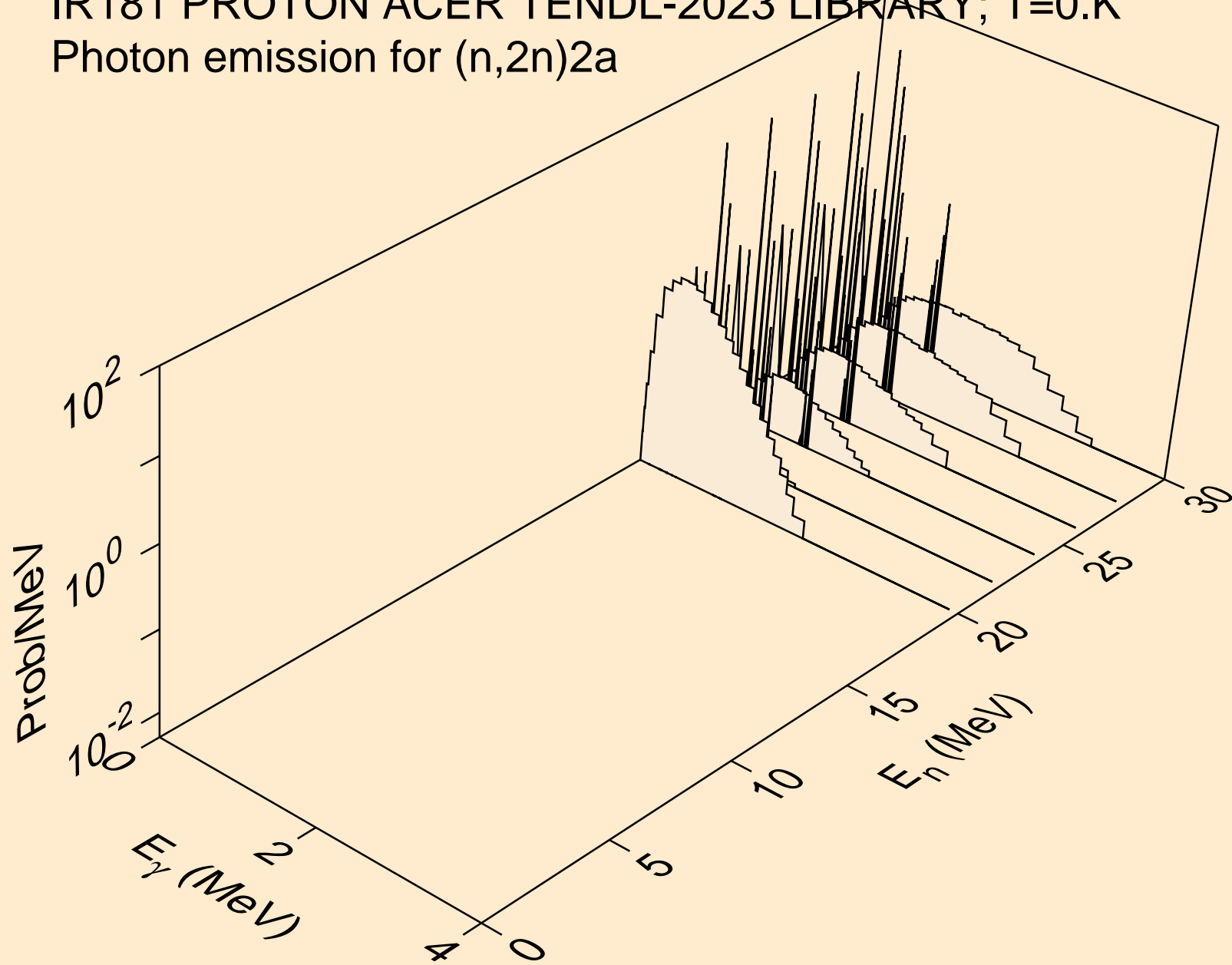
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Photon emission for (n,n\*)p



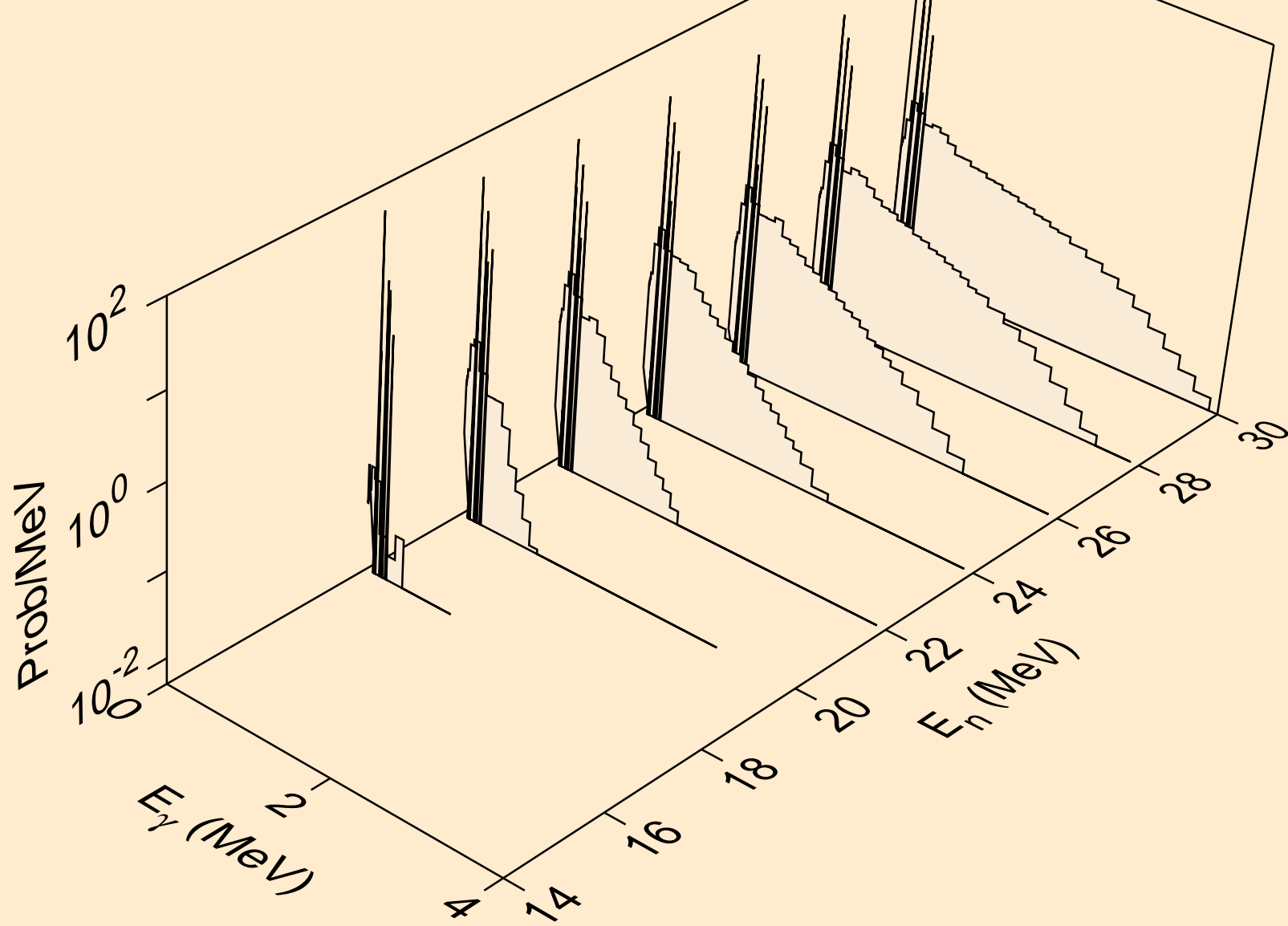
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Photon emission for (n,n\*)2a



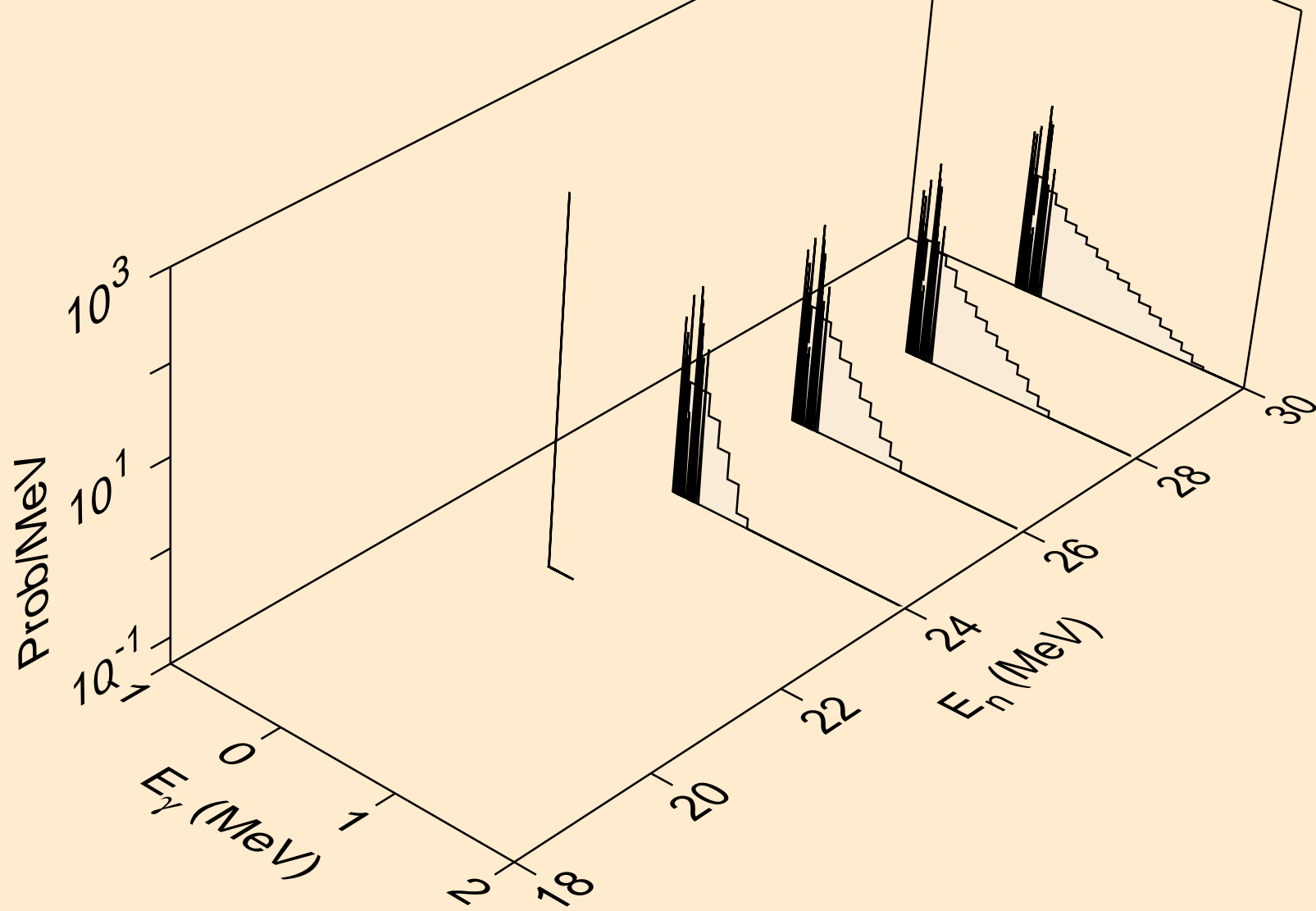
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Photon emission for (n,2n)2a



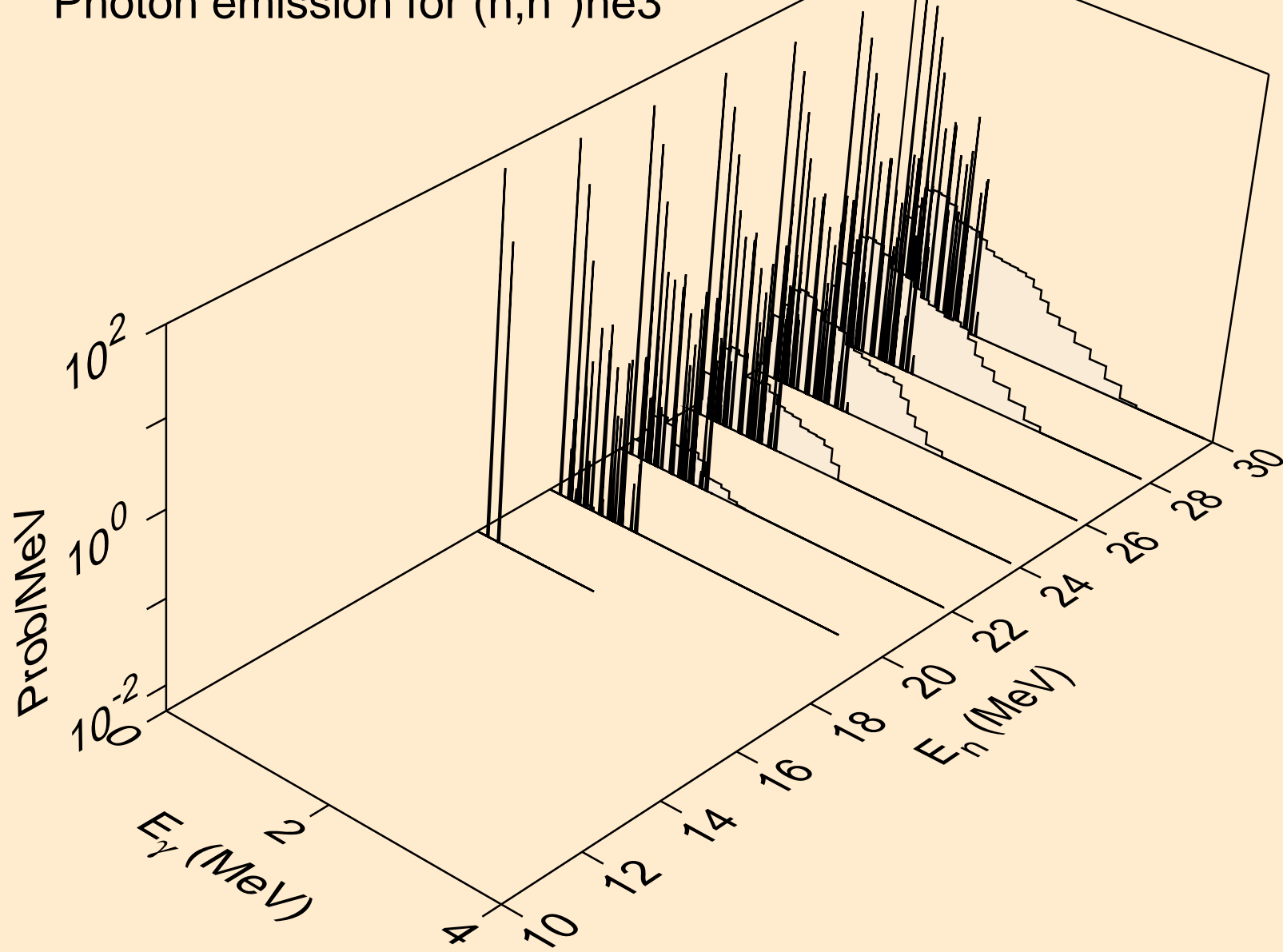
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Photon emission for (n,n\*)d



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

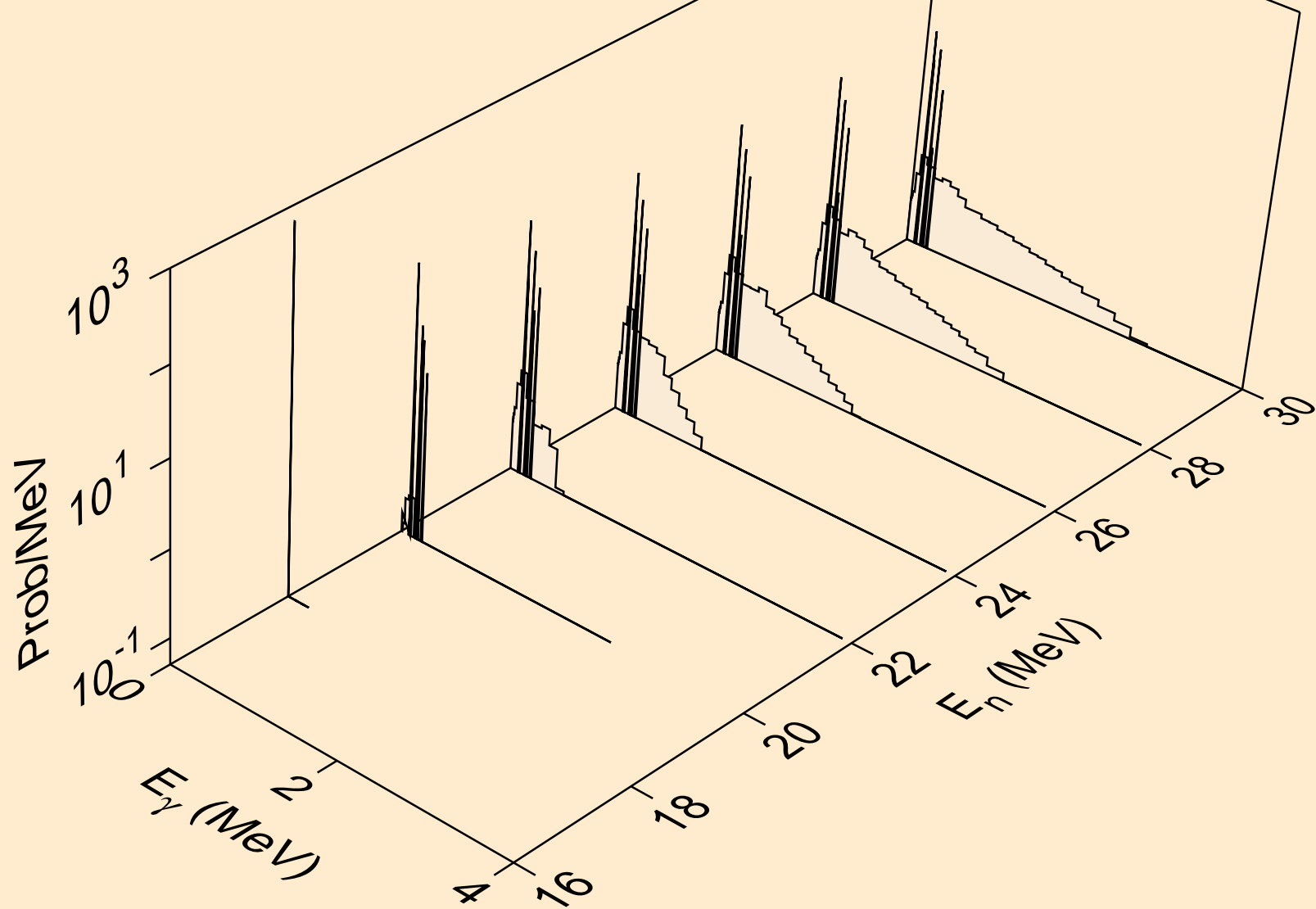


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Photon emission for (n,n\*)he3

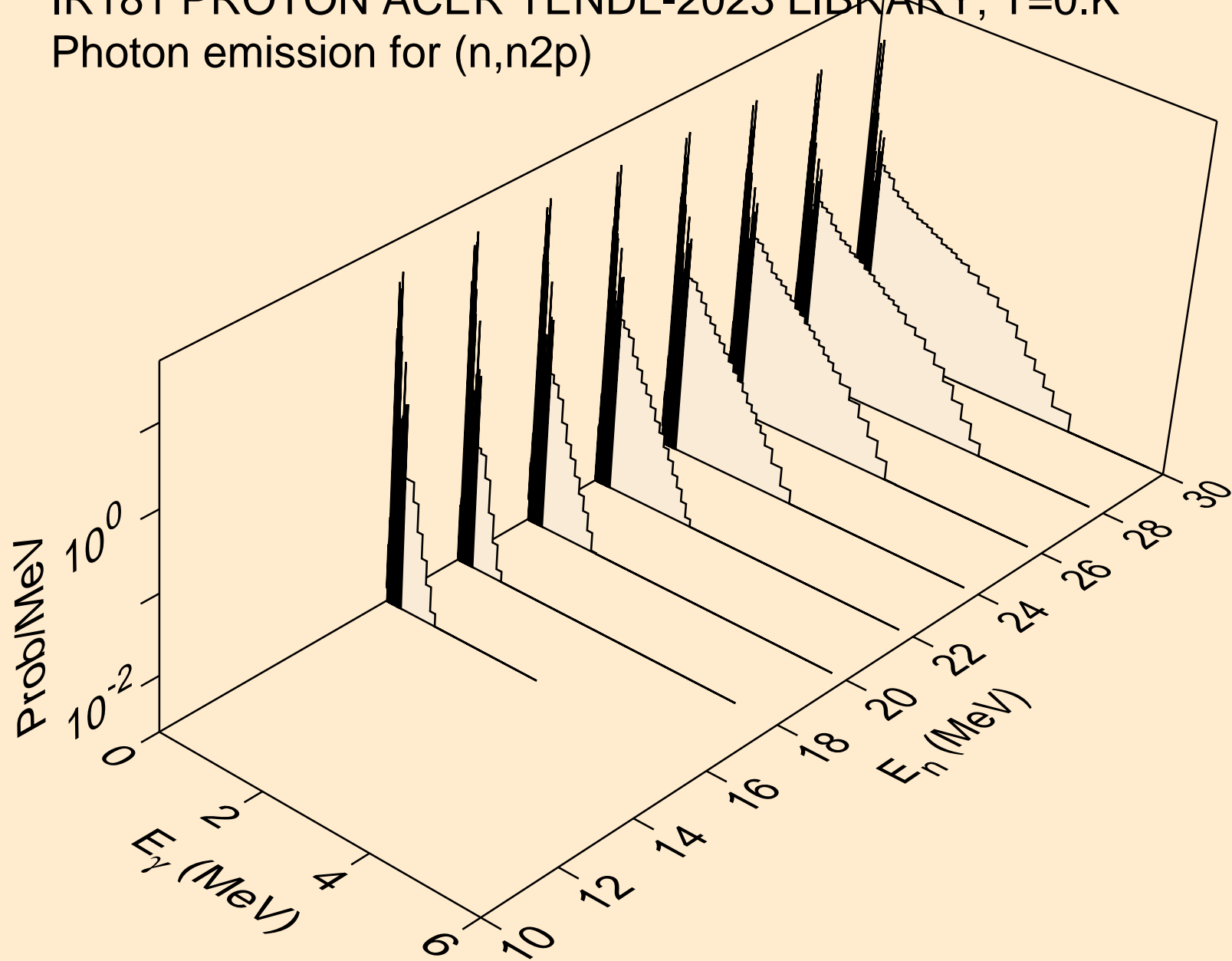




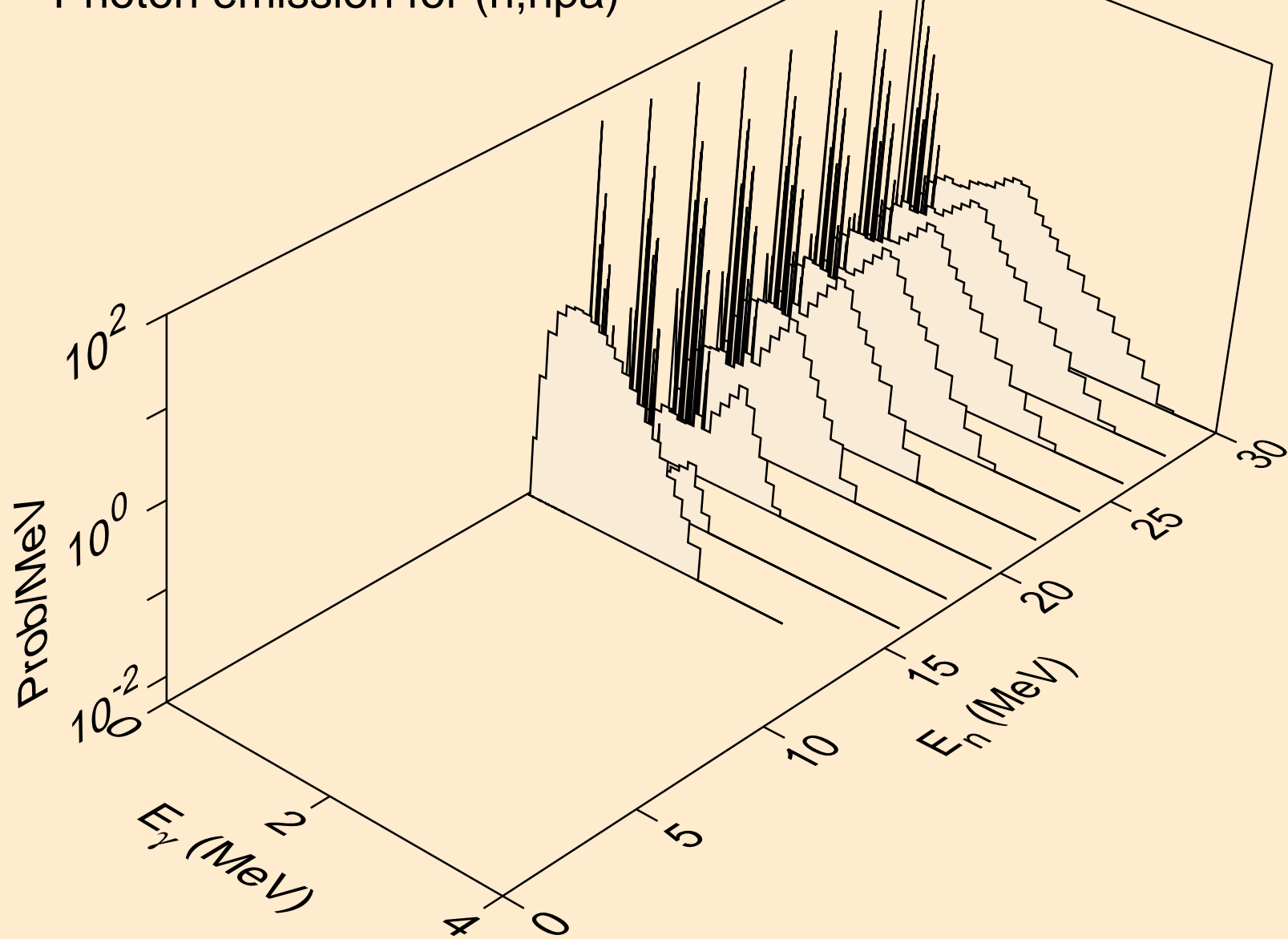
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Photon emission for (n,2np)



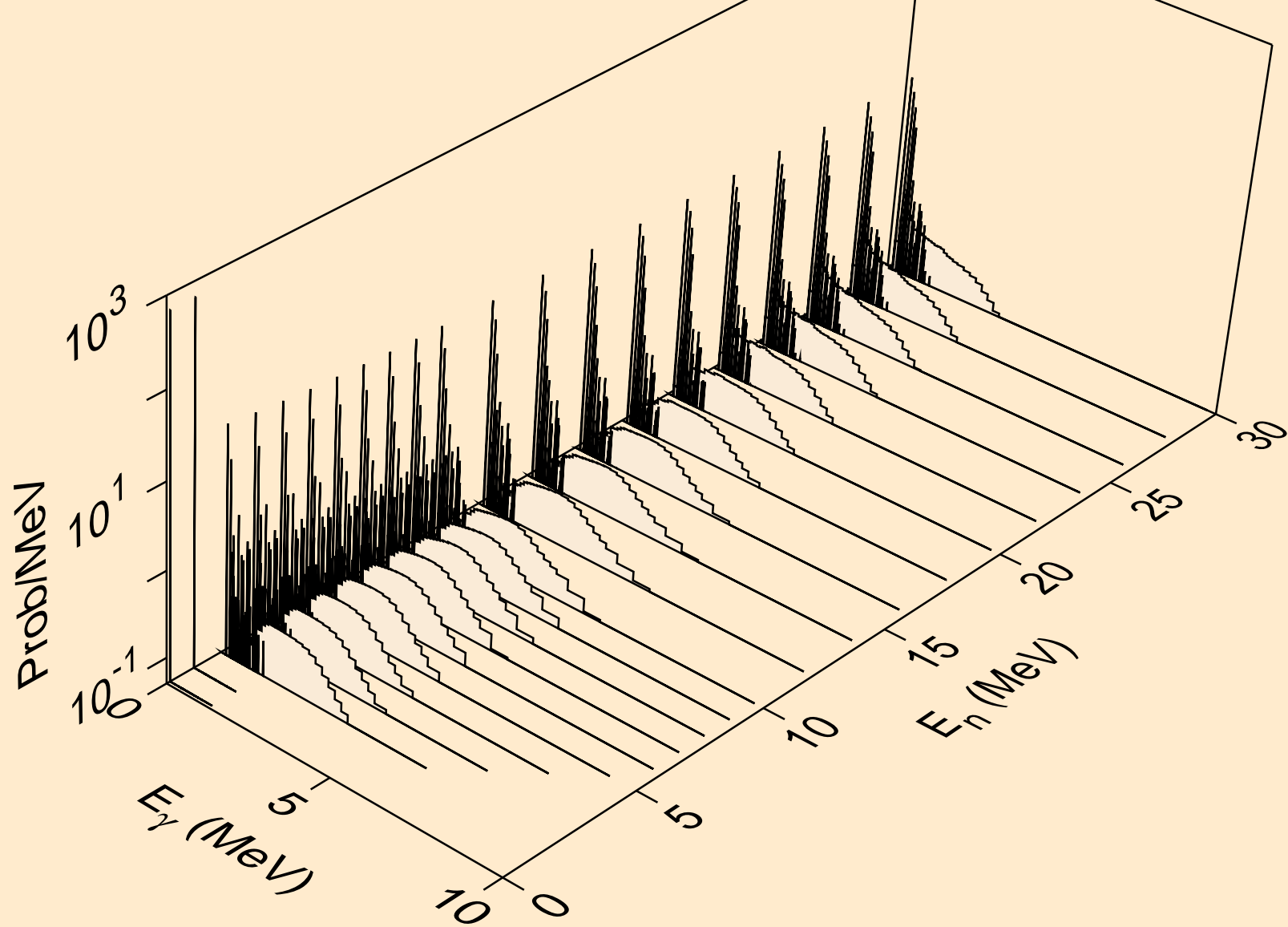
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Photon emission for (n,n2p)



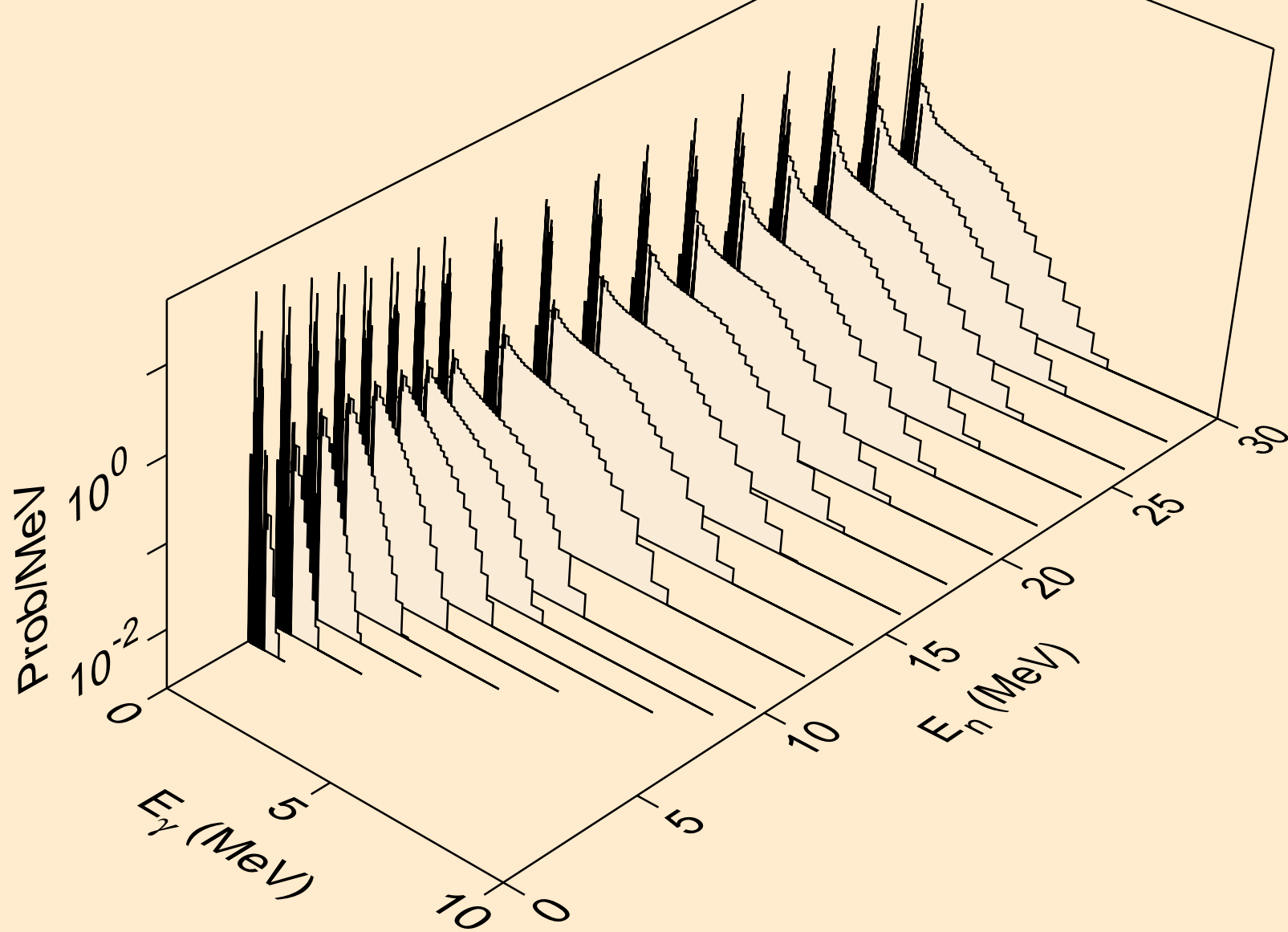
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Photon emission for (n,npa)



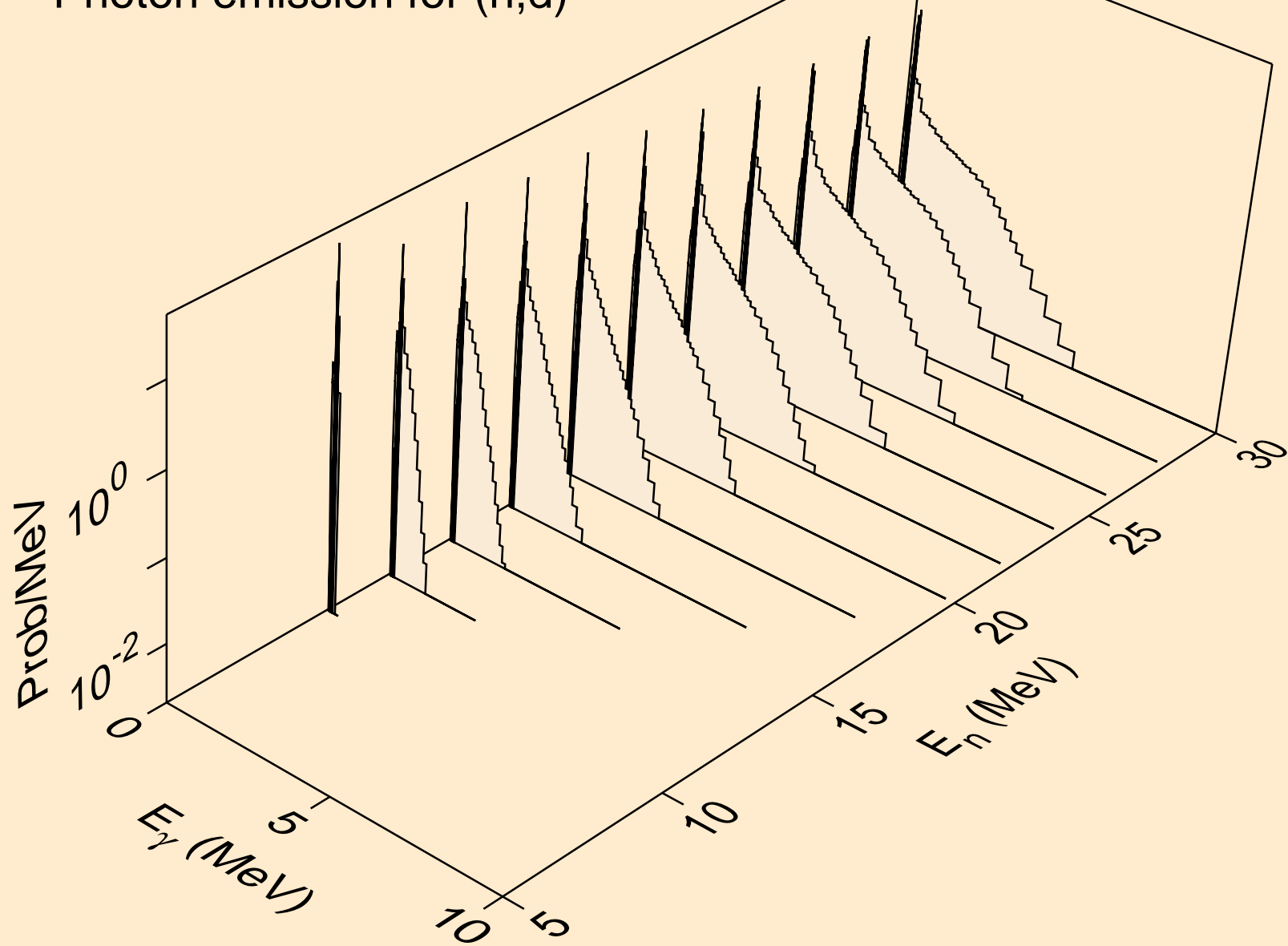
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Photon emission for (n,gma)



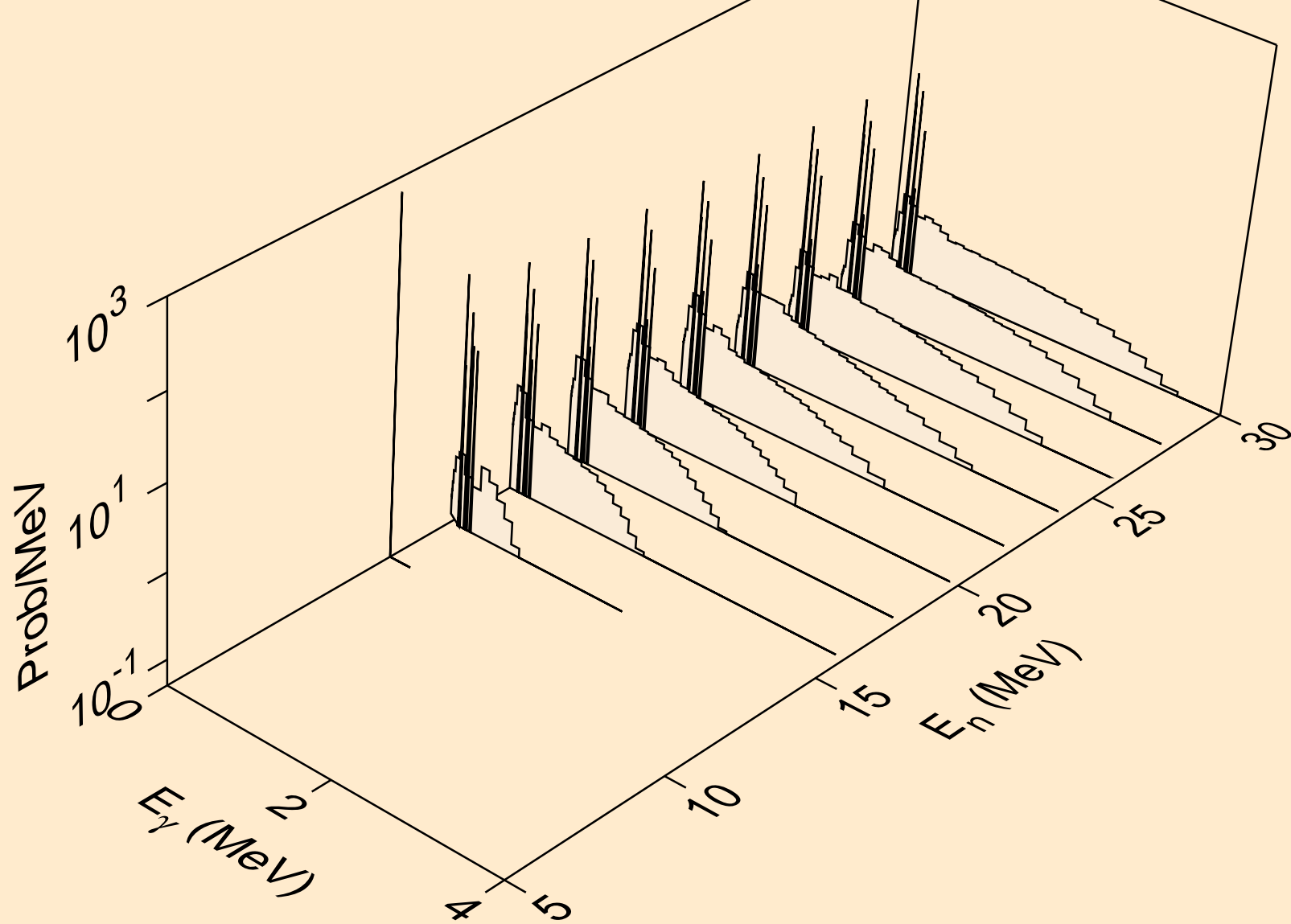
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Photon emission for inelastic



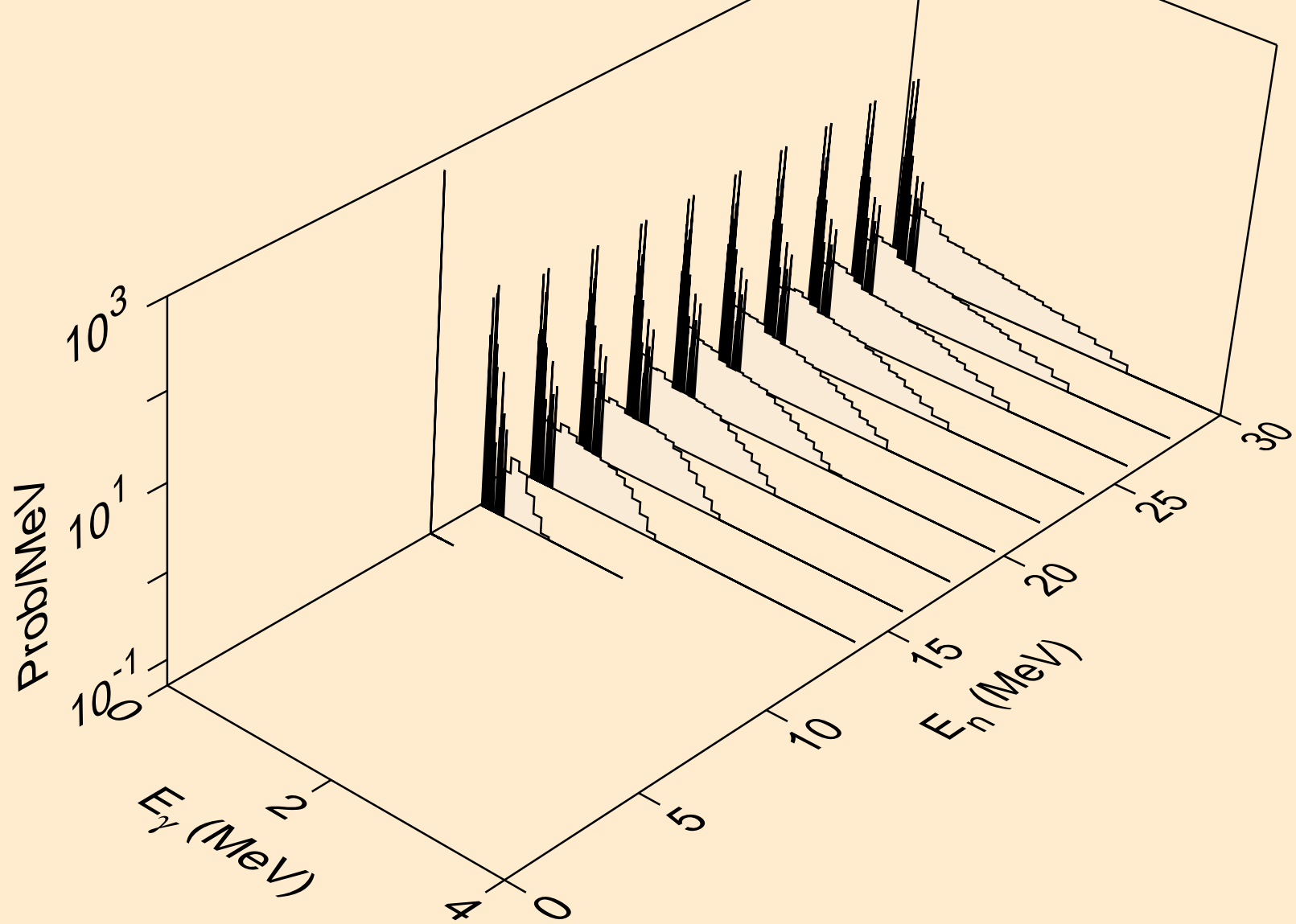
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

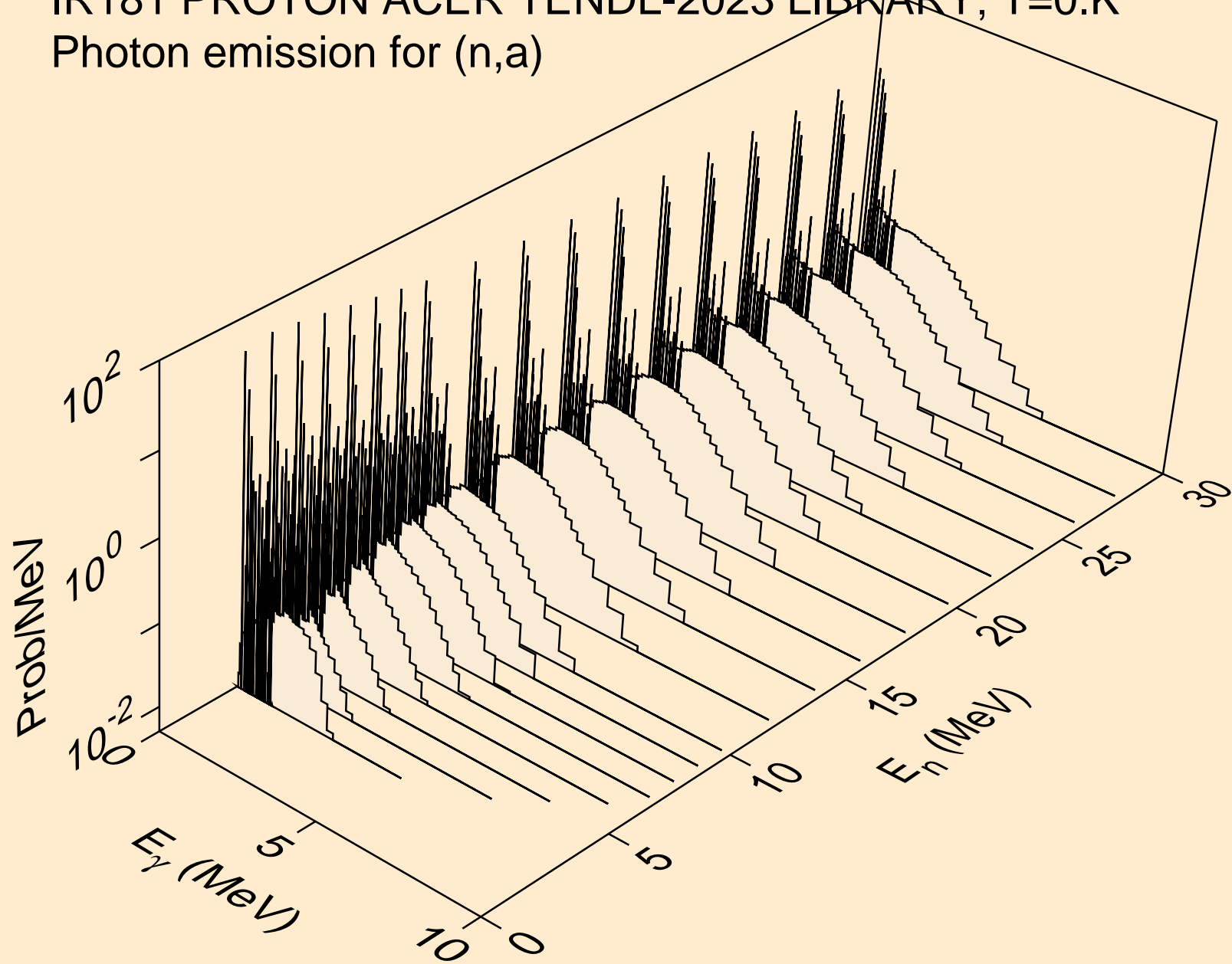


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Photon emission for (n,he3)

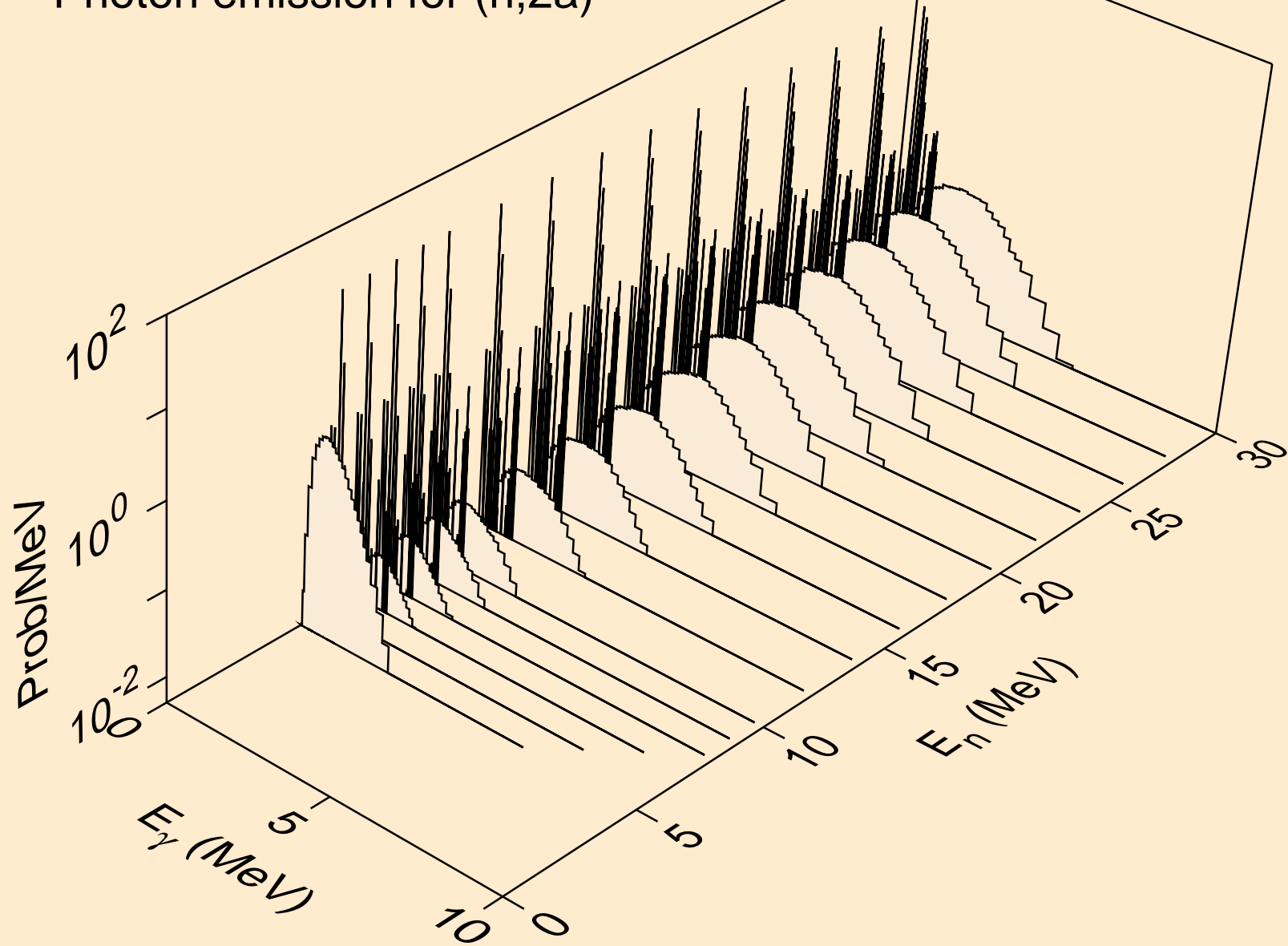




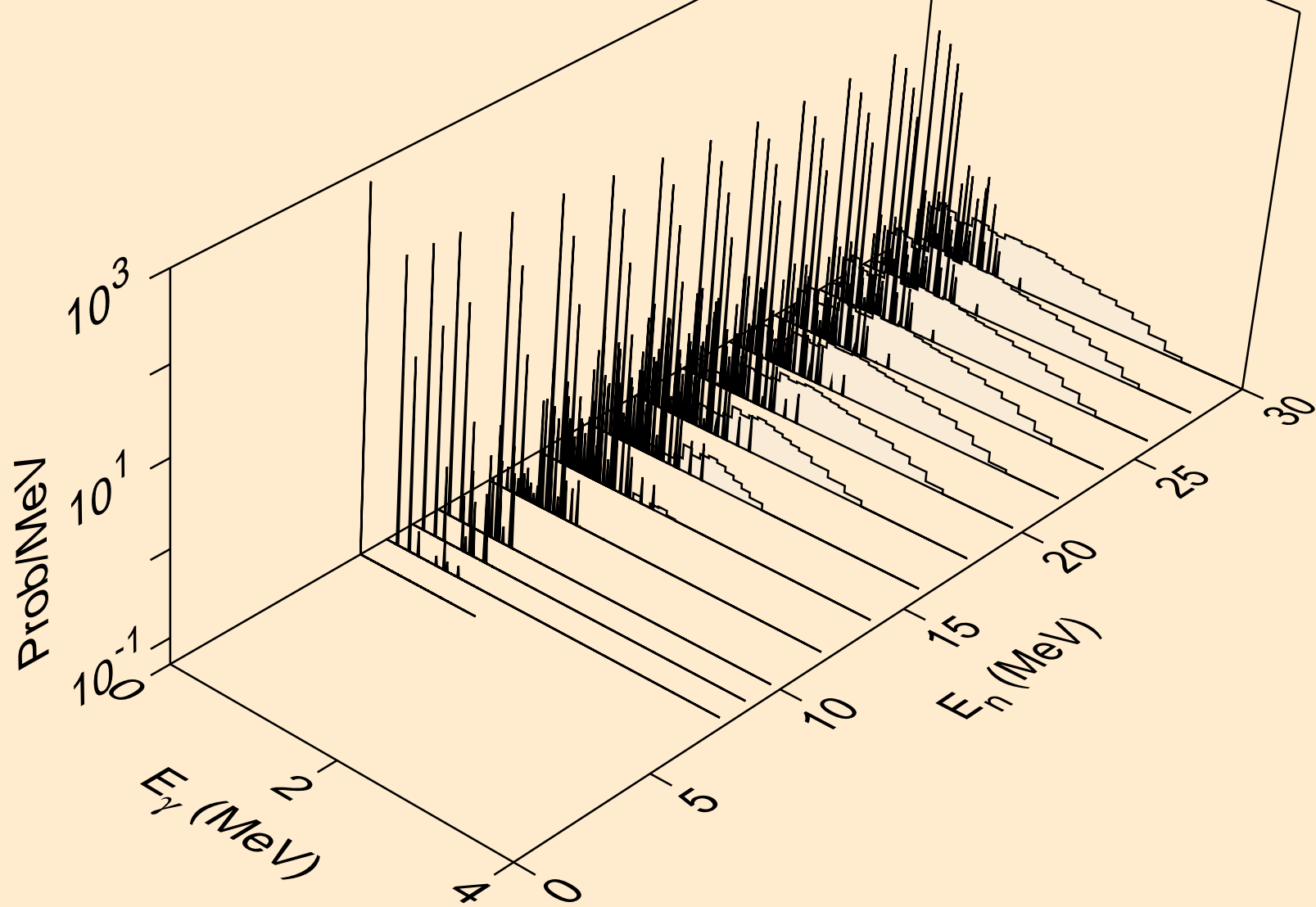
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Photon emission for (n,a)



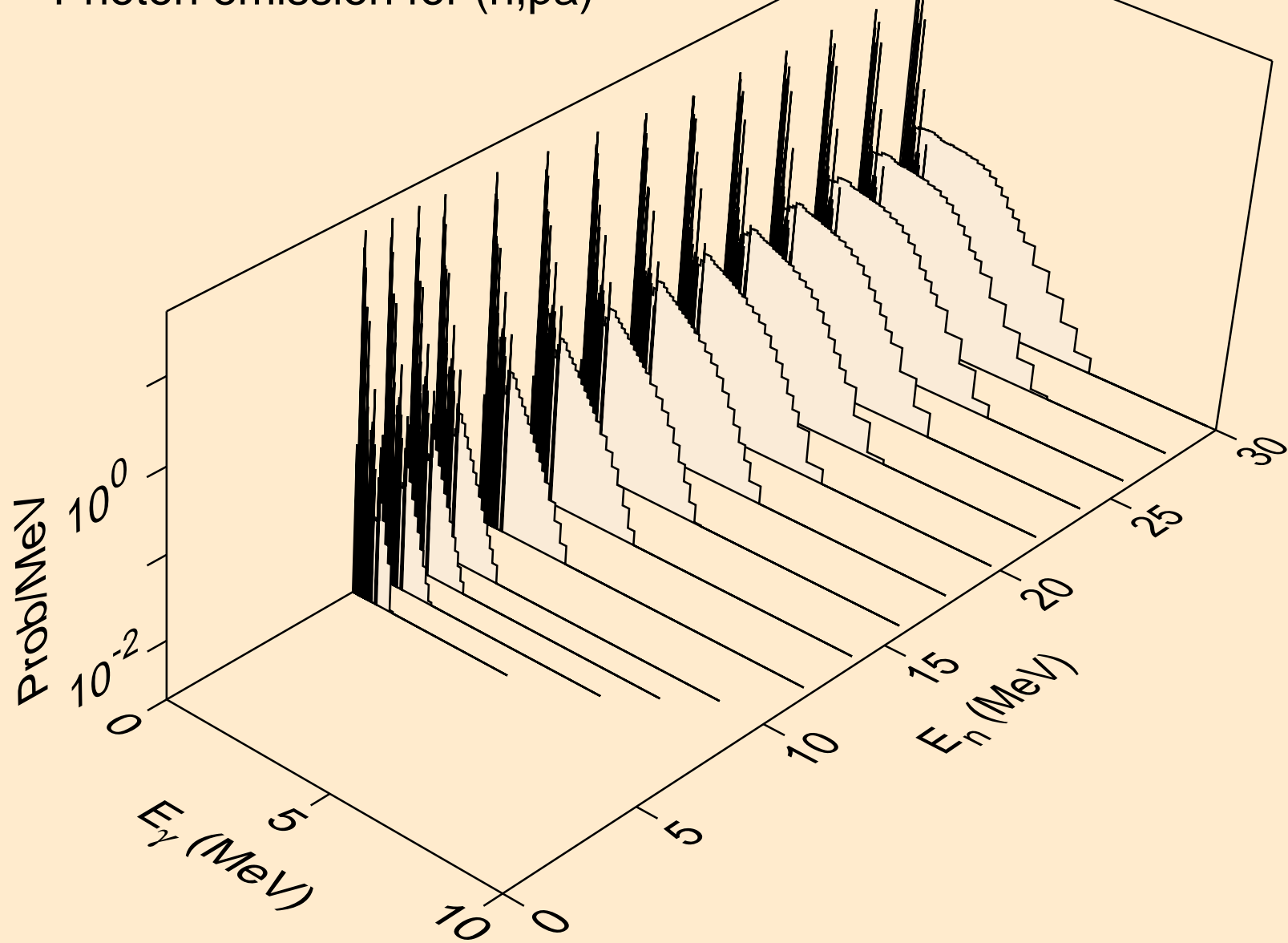
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Photon emission for (n,2a)



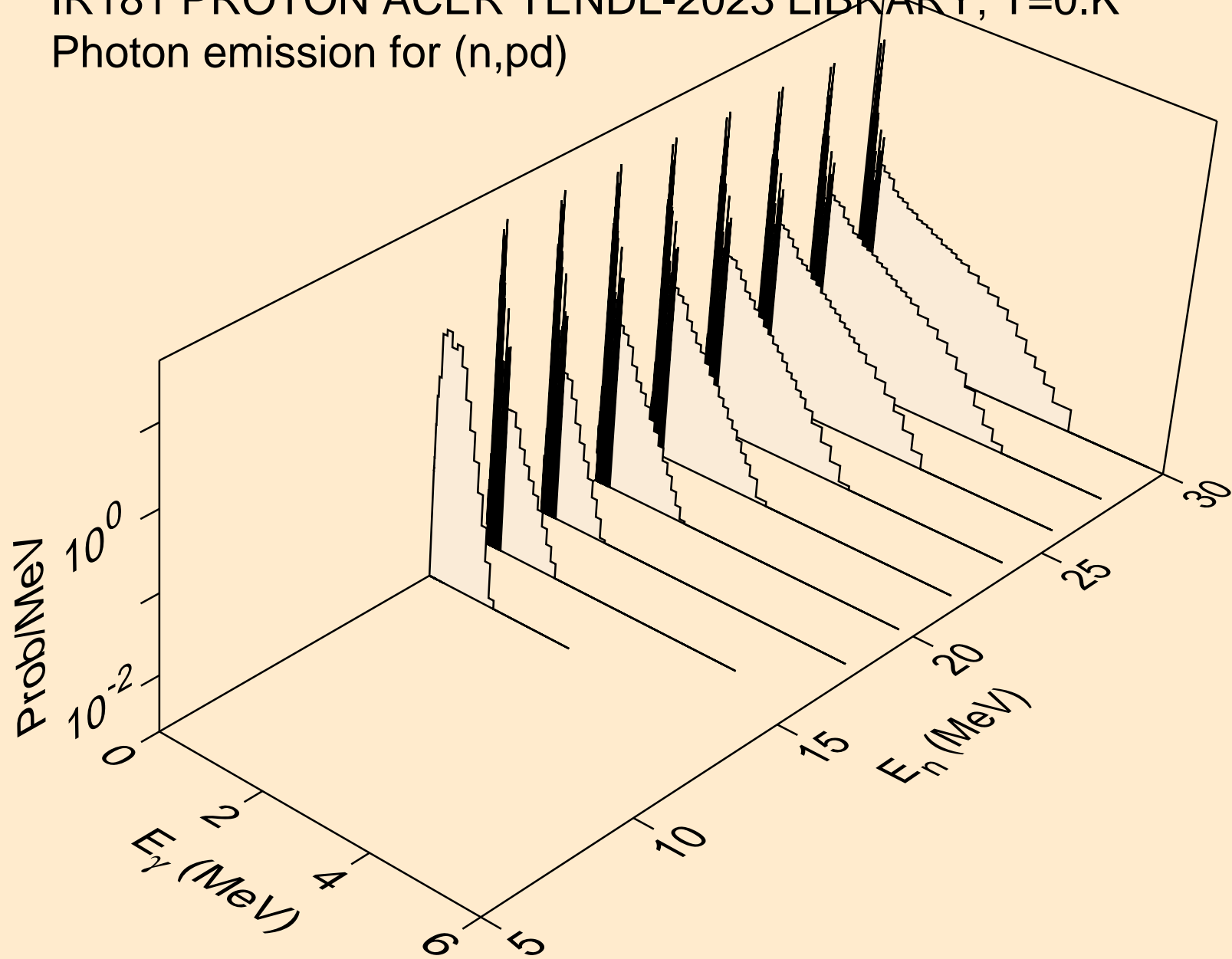
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Photon emission for (n,2p)



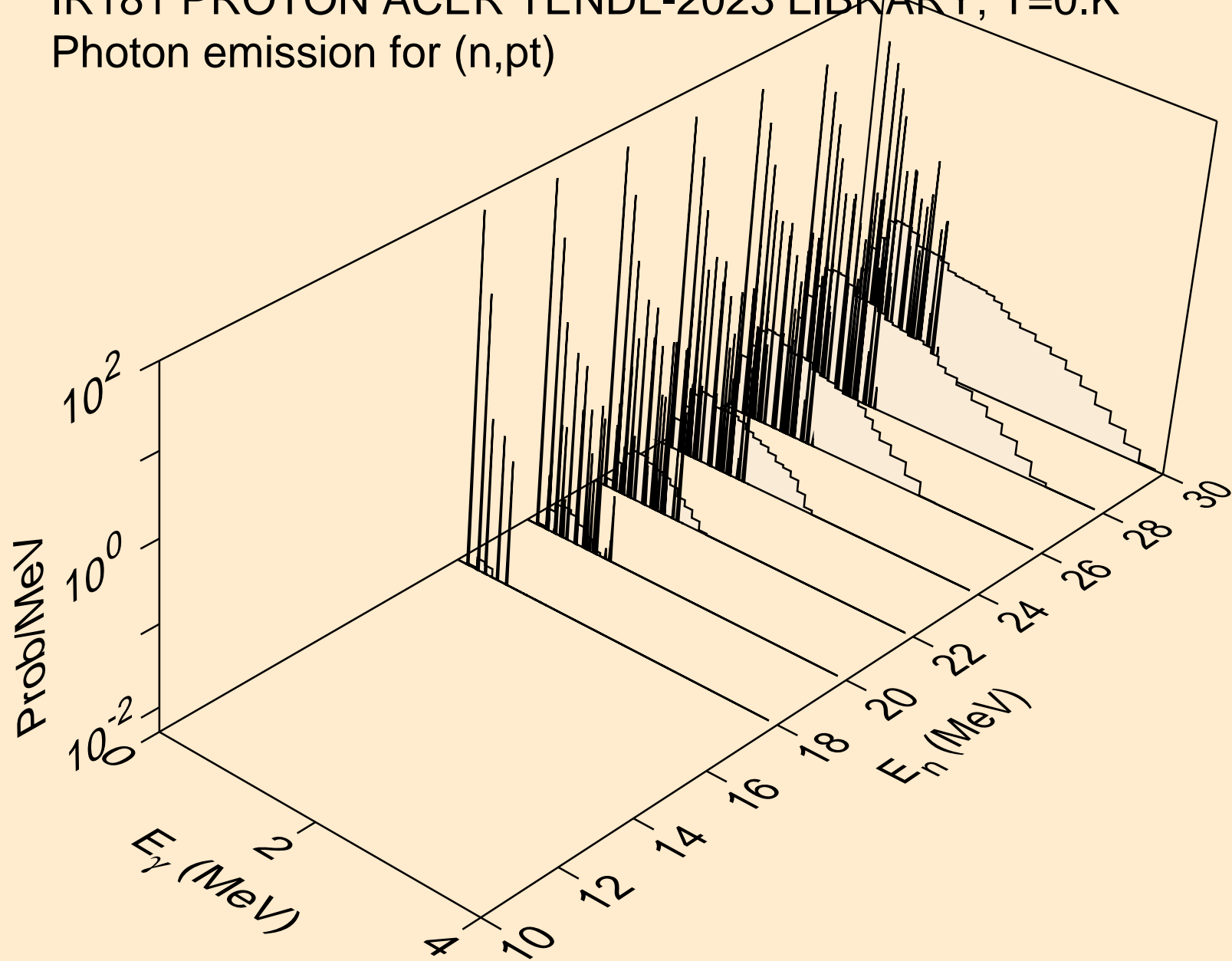
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Photon emission for (n,pa)



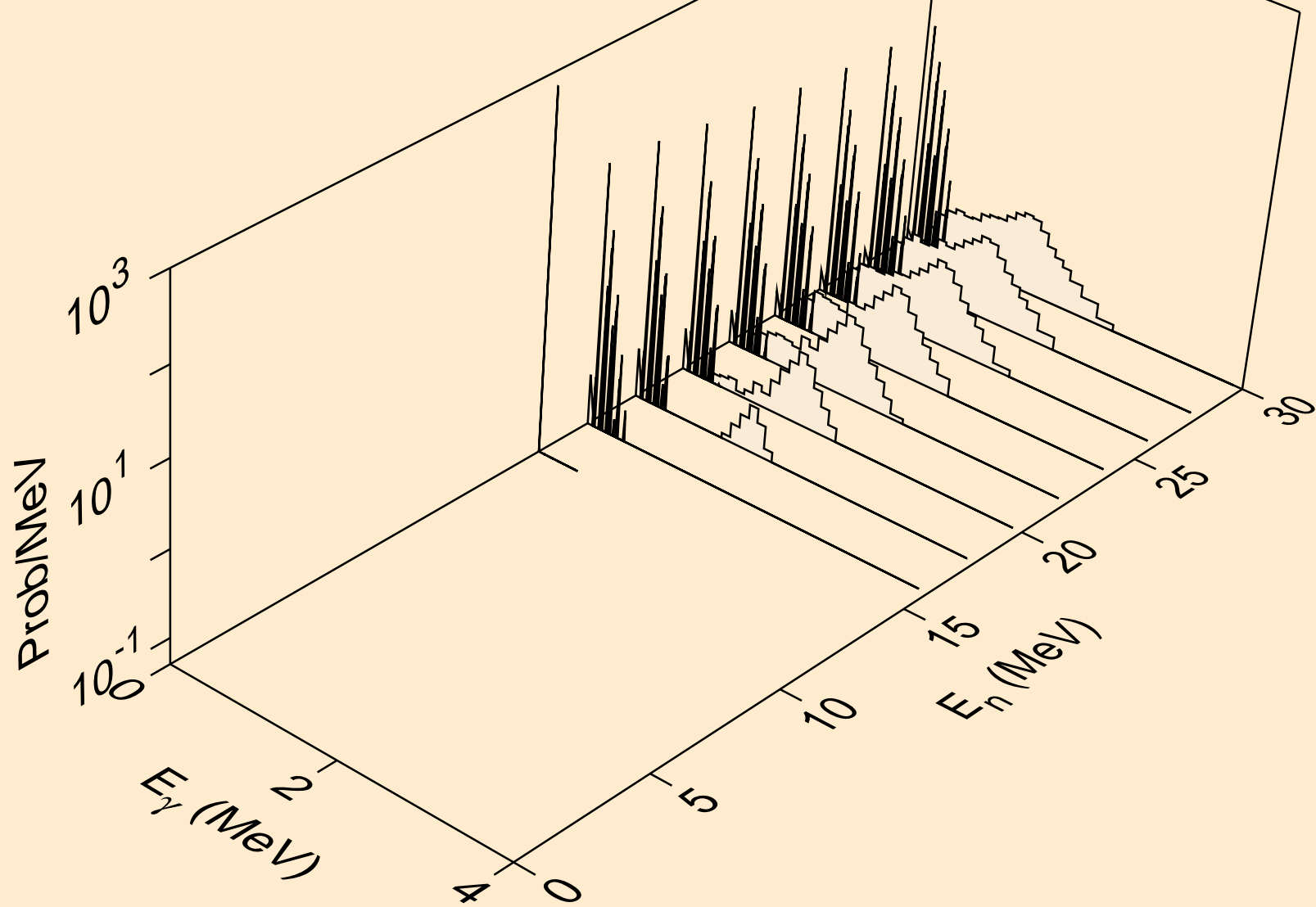
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Photon emission for (n,pd)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

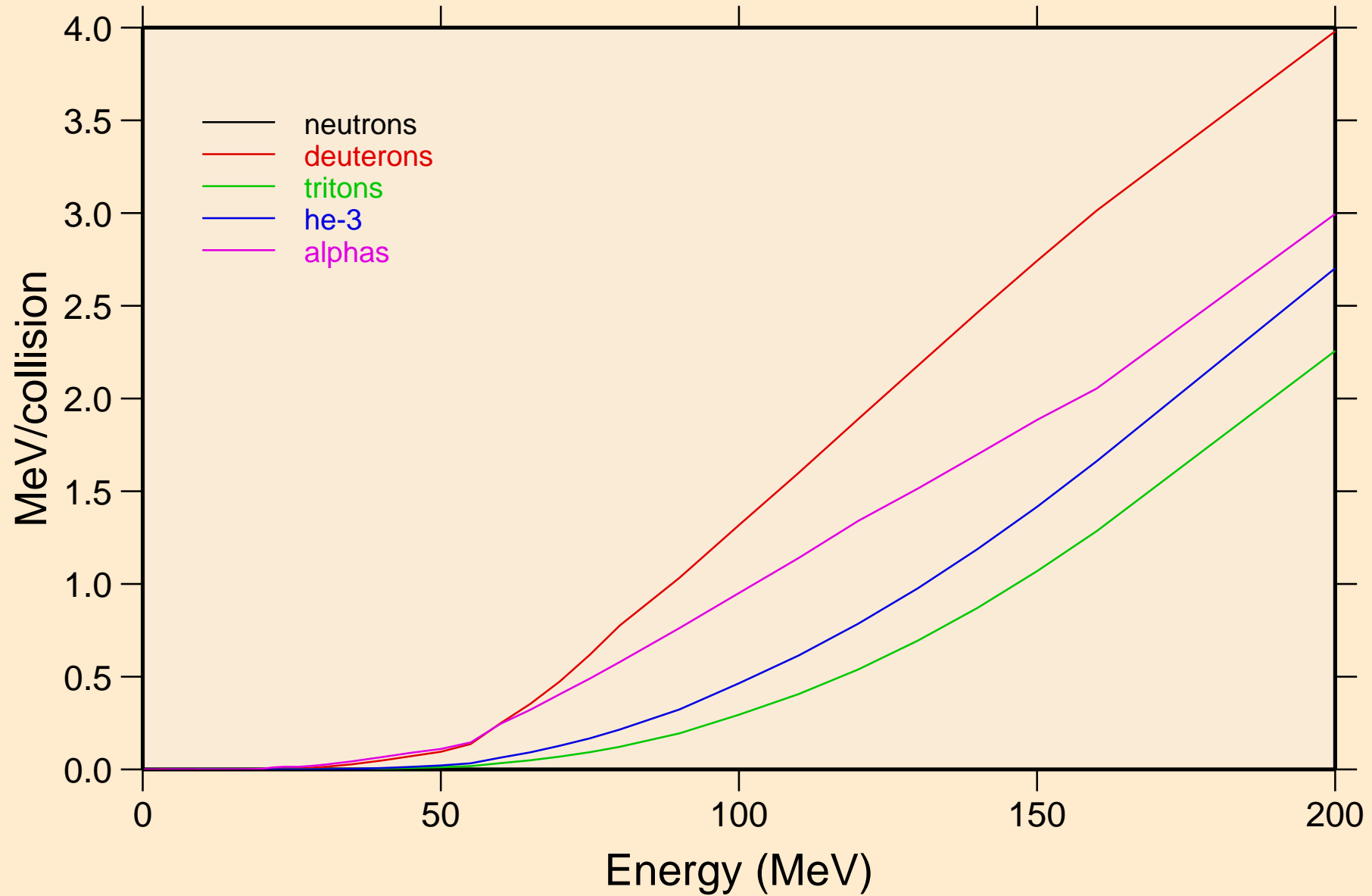


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Photon emission for (n,da)



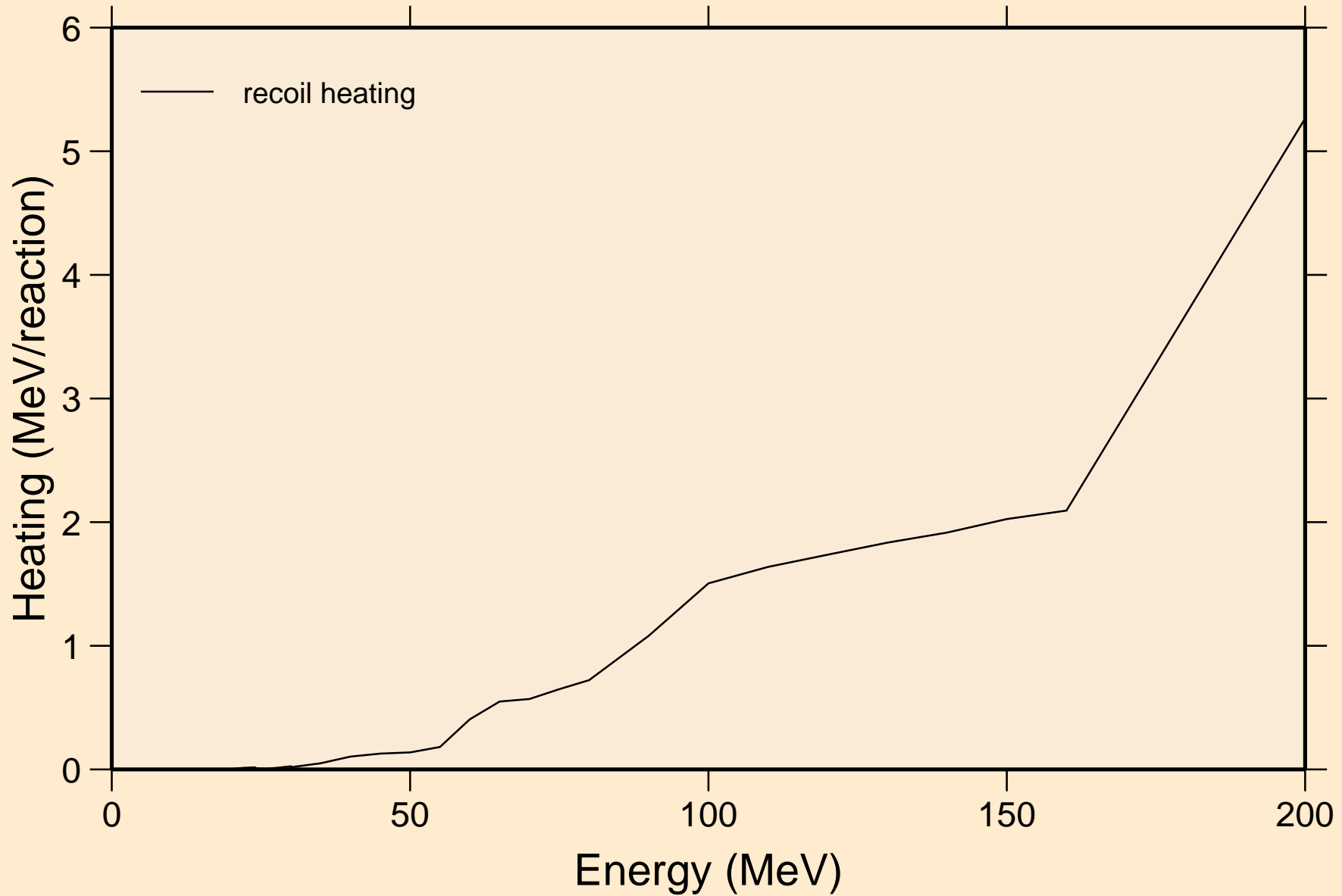
# IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

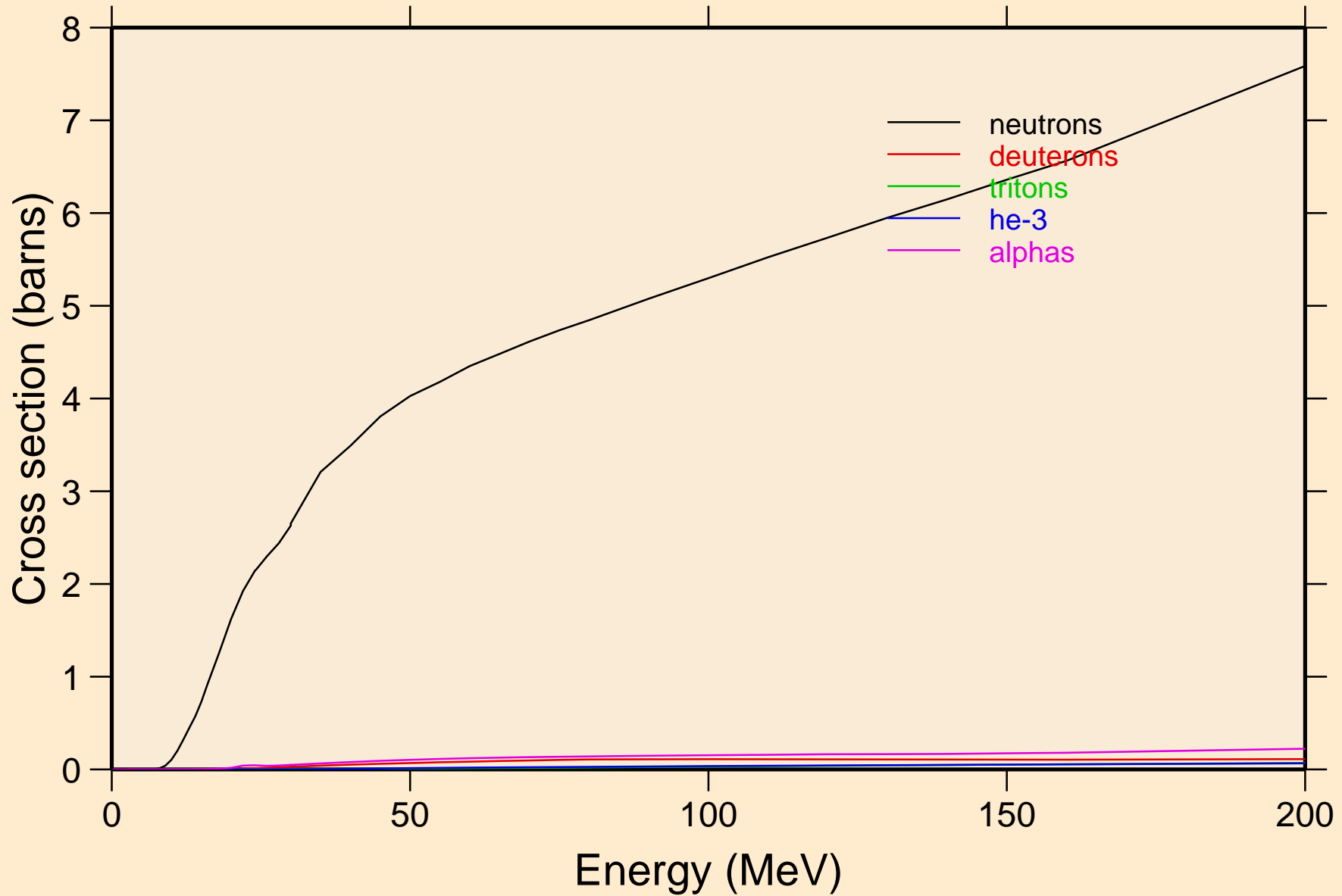




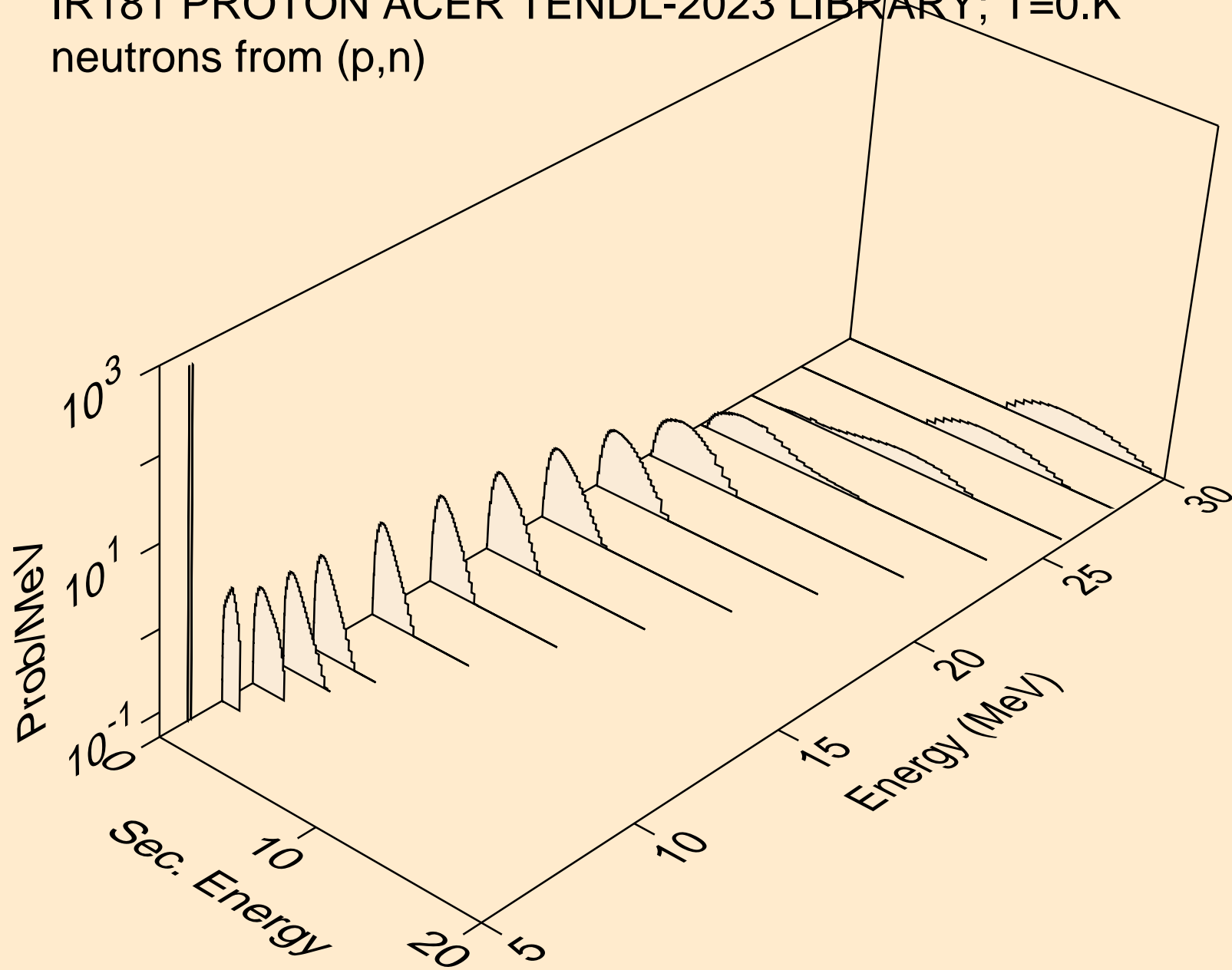
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Recoil Heating



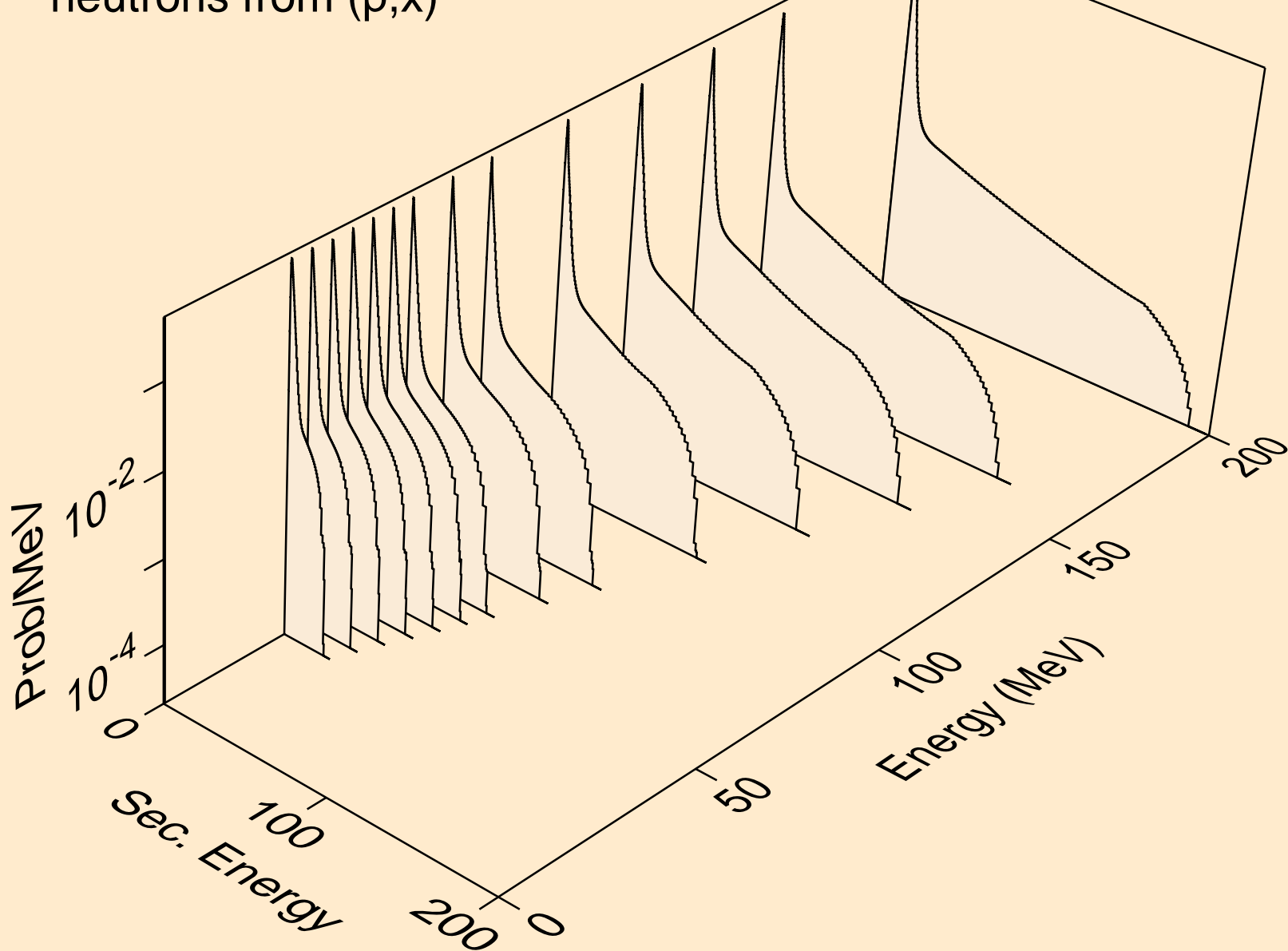
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Particle production cross sections



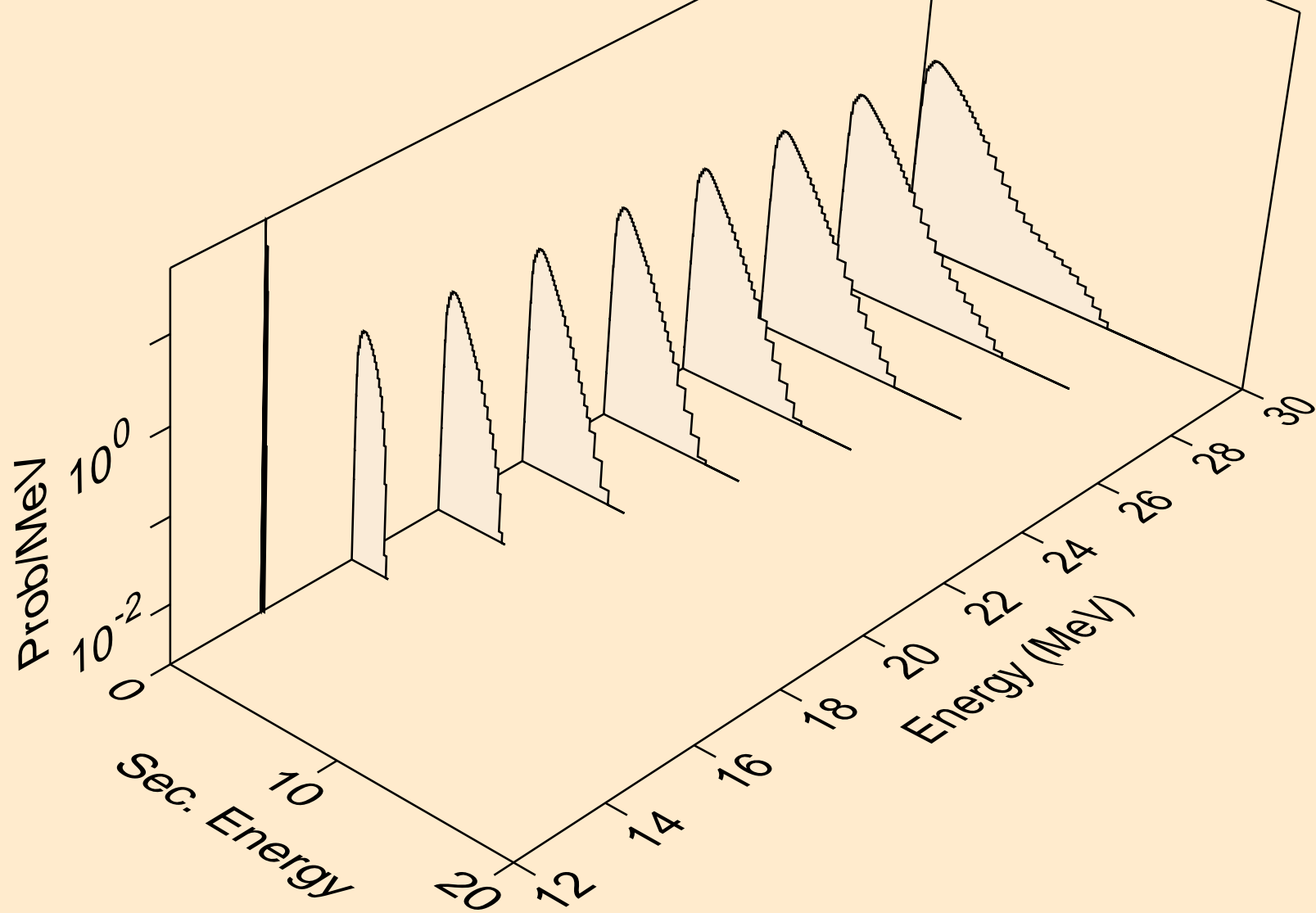
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



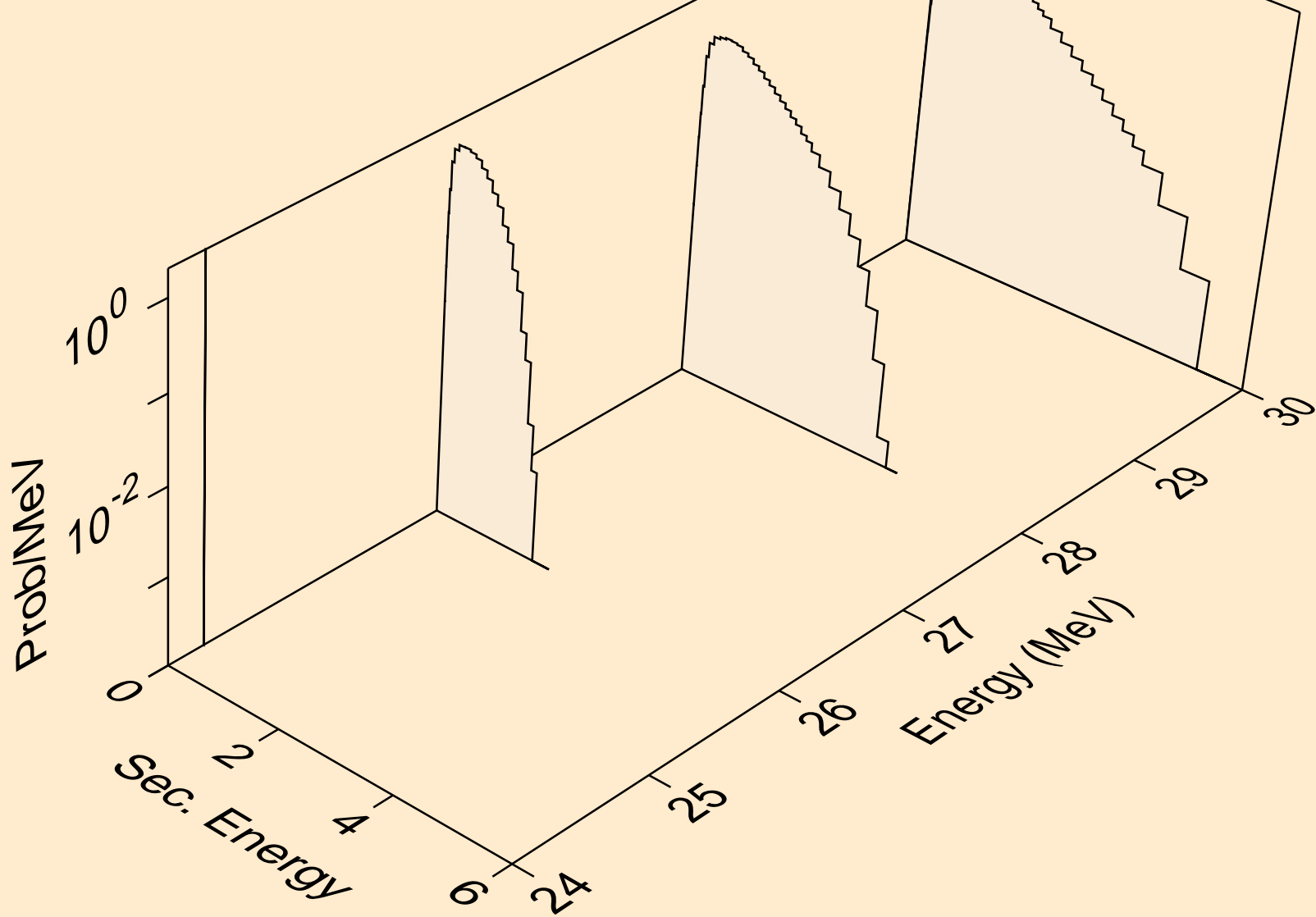
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neutrons from (p,x)



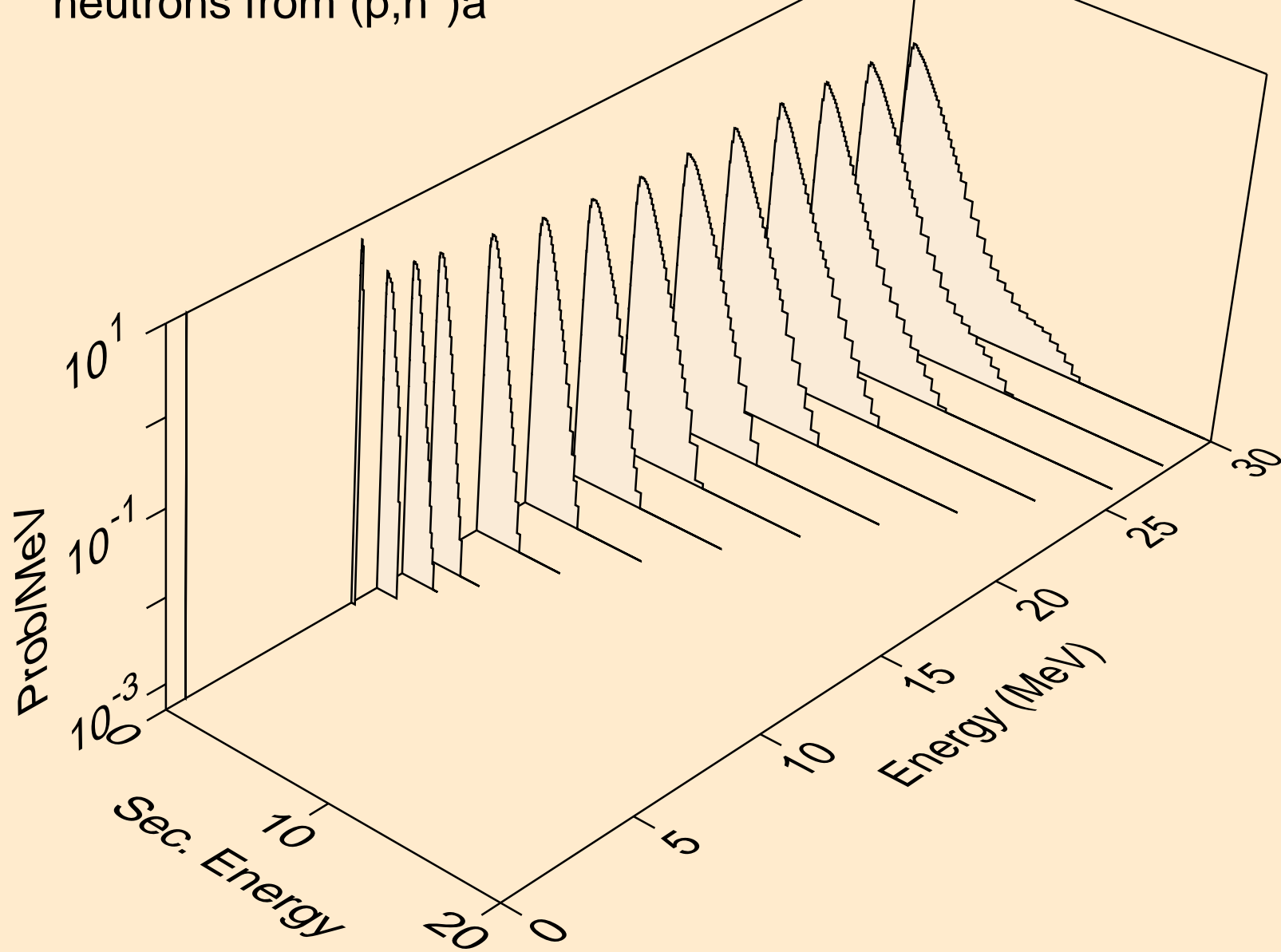
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neutrons from (p,2n)



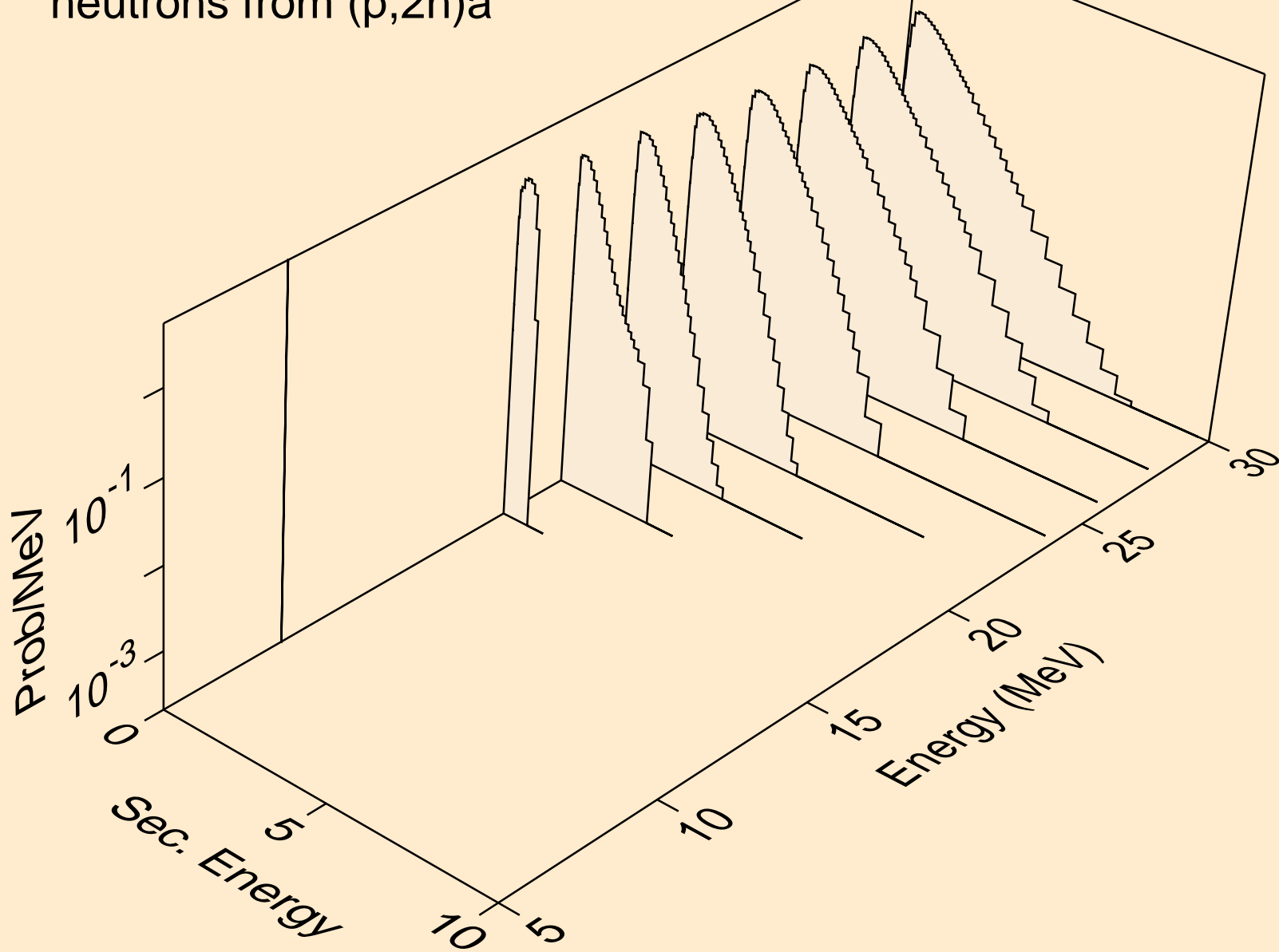
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a

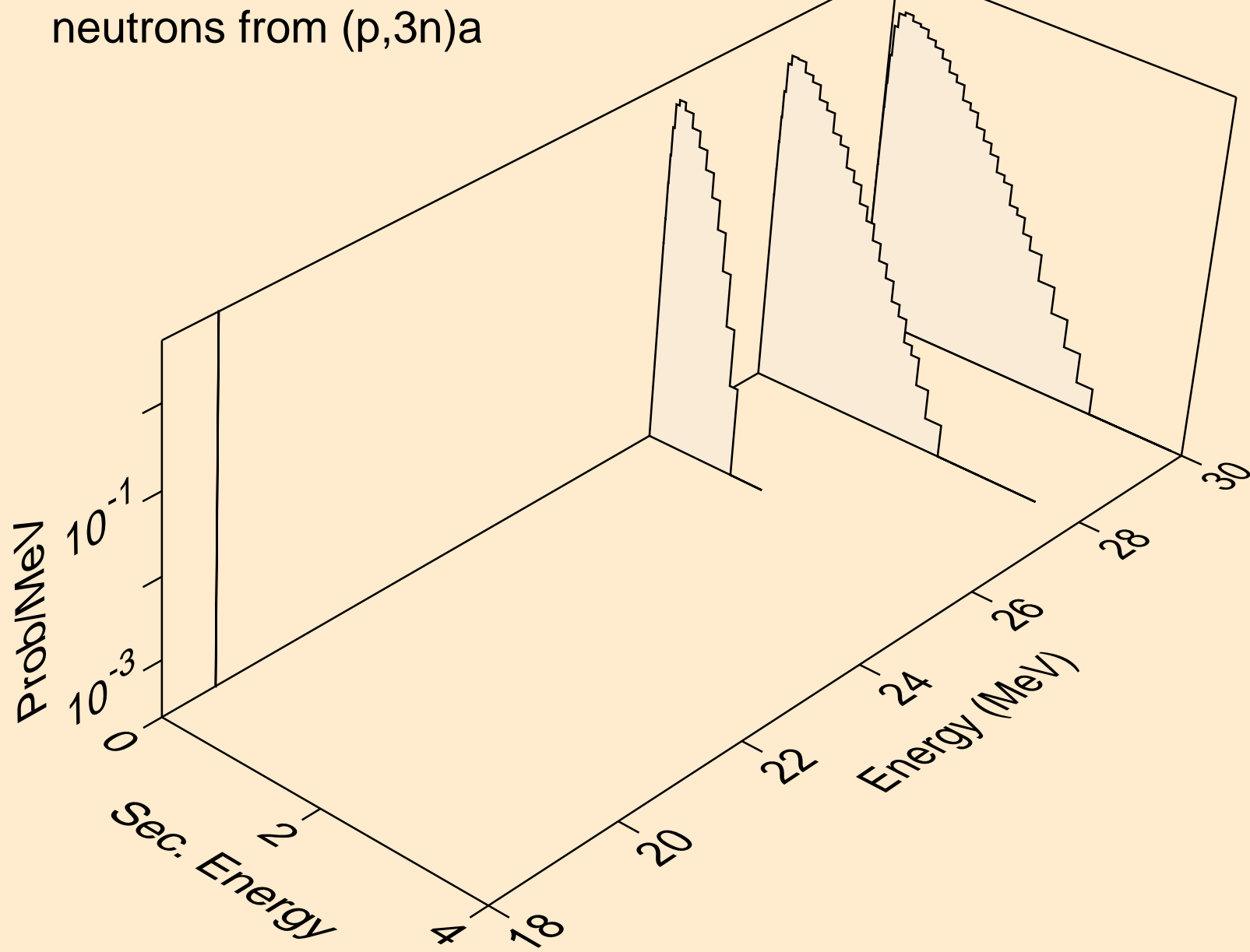


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neutrons from (p,2n)a

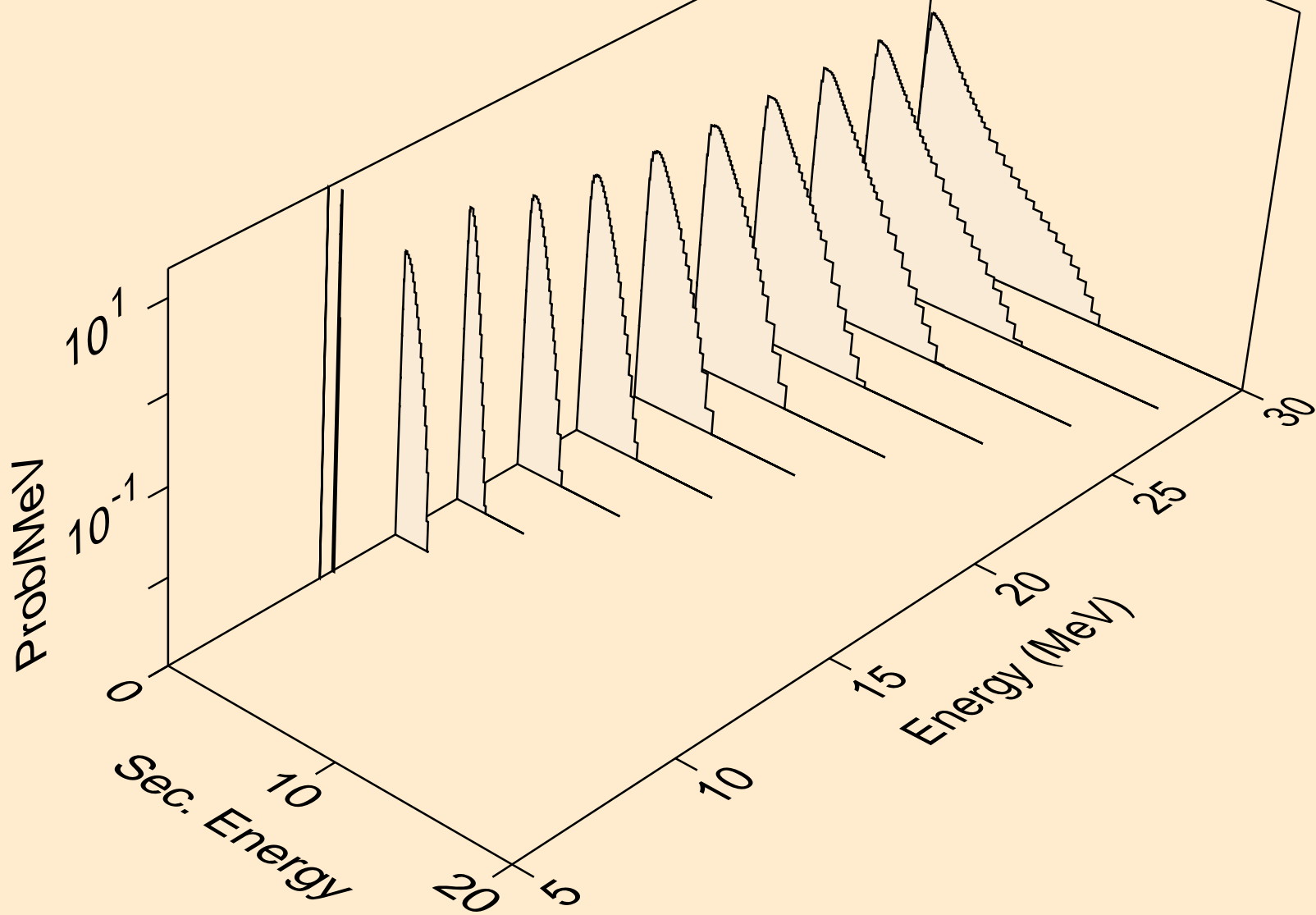




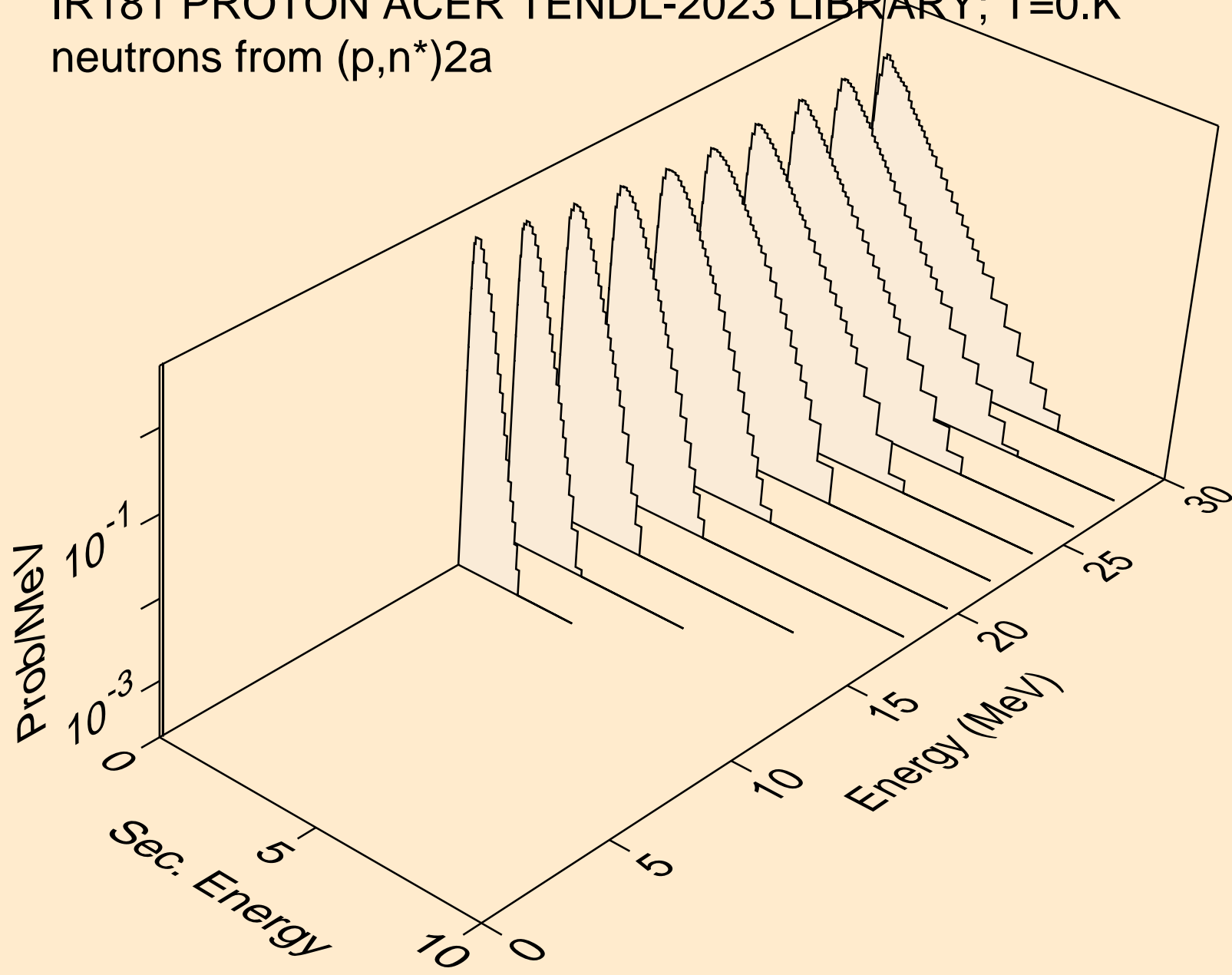
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neutrons from (p,3n)a



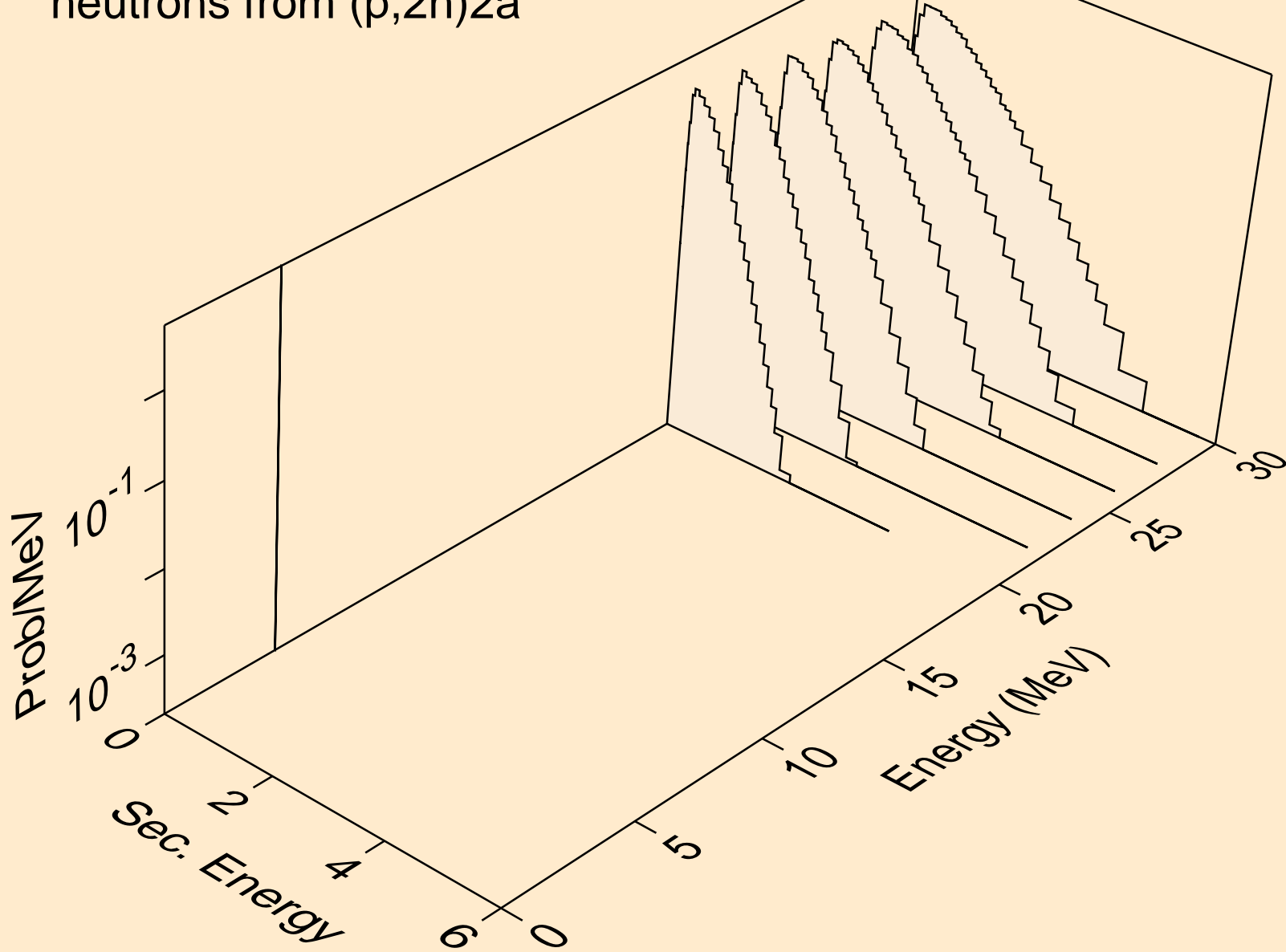
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neutrons from (p,n\*)p



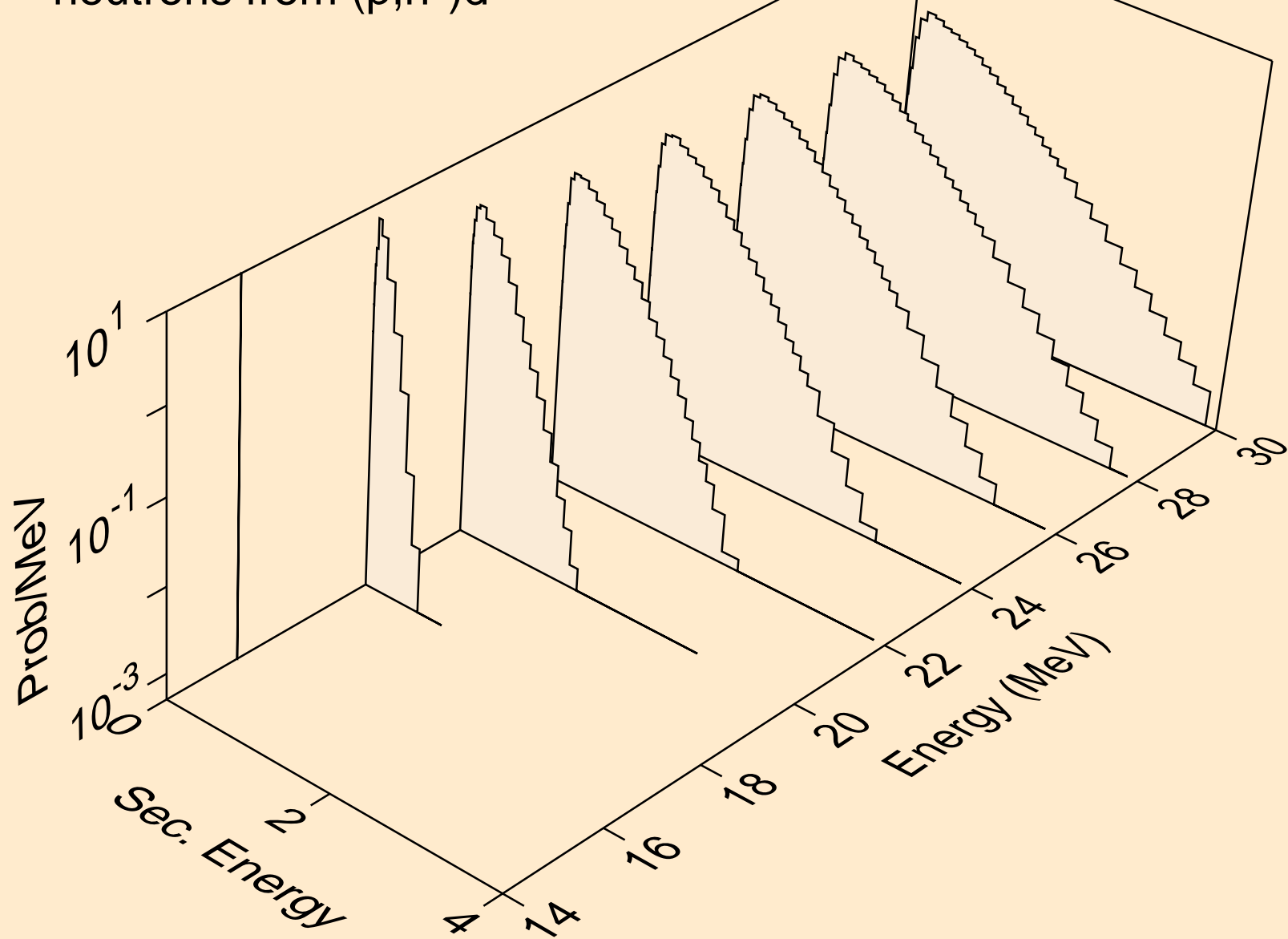
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neutrons from (p,n\*)2a



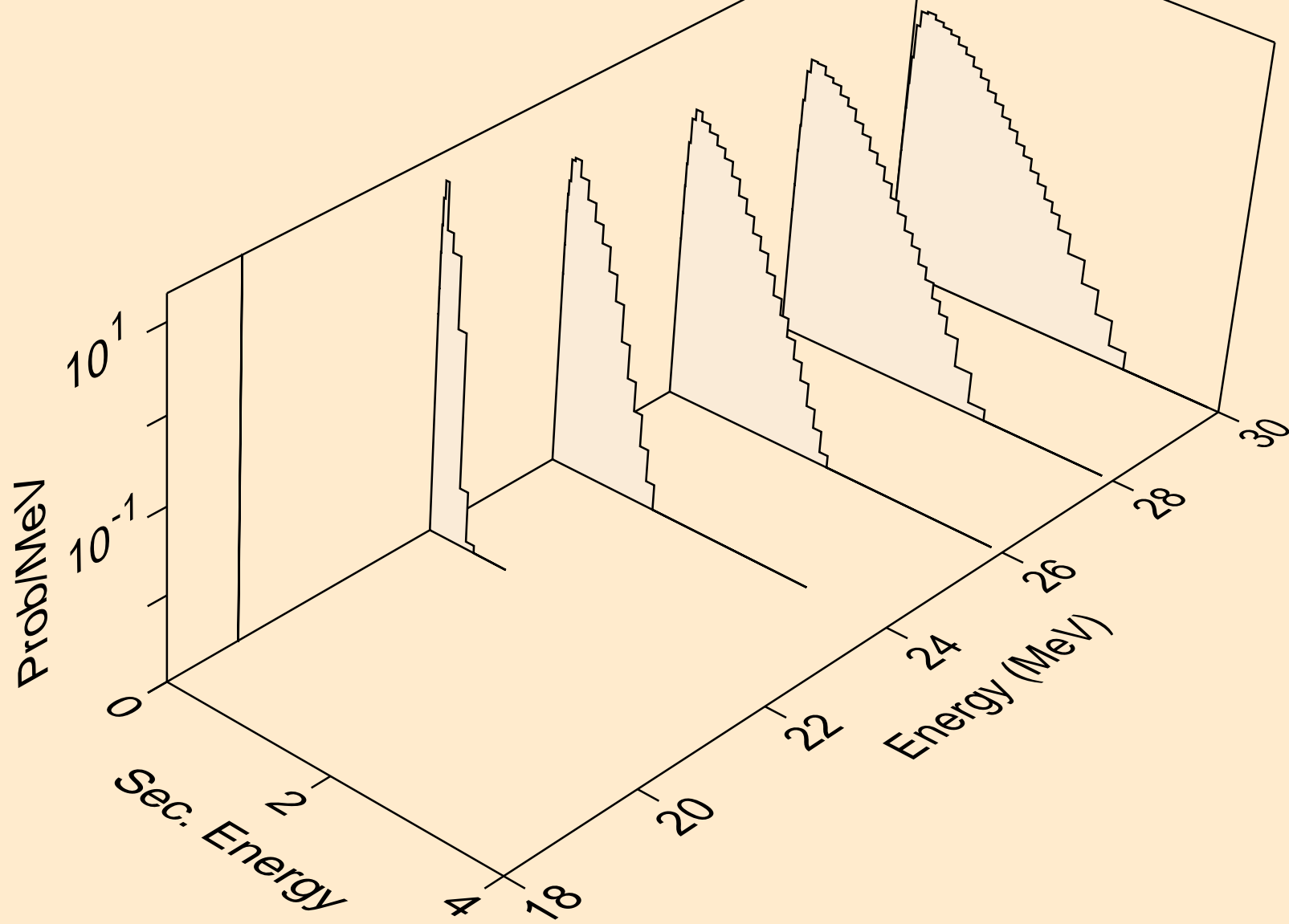
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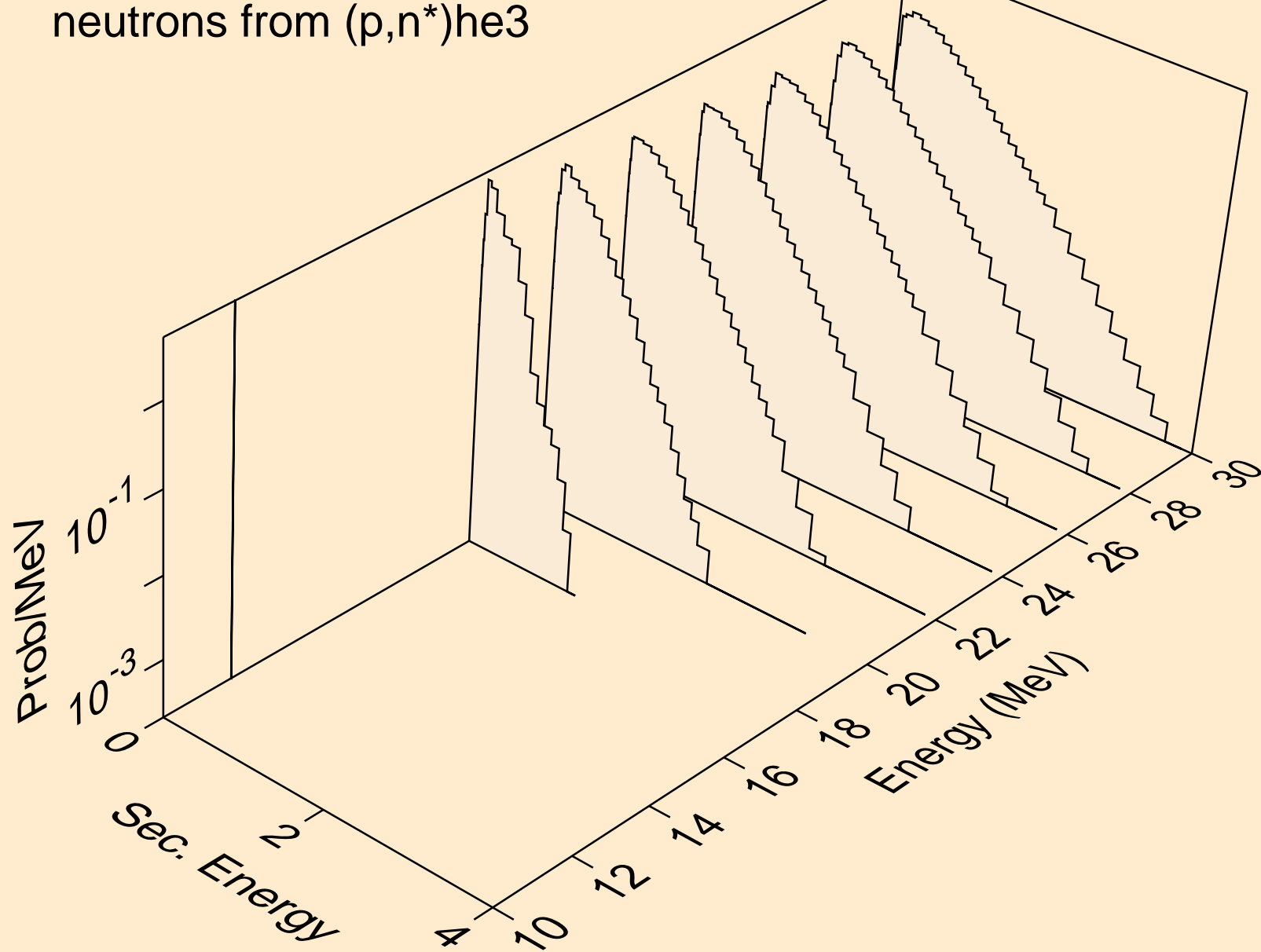
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neutrons from (p,n\*)d



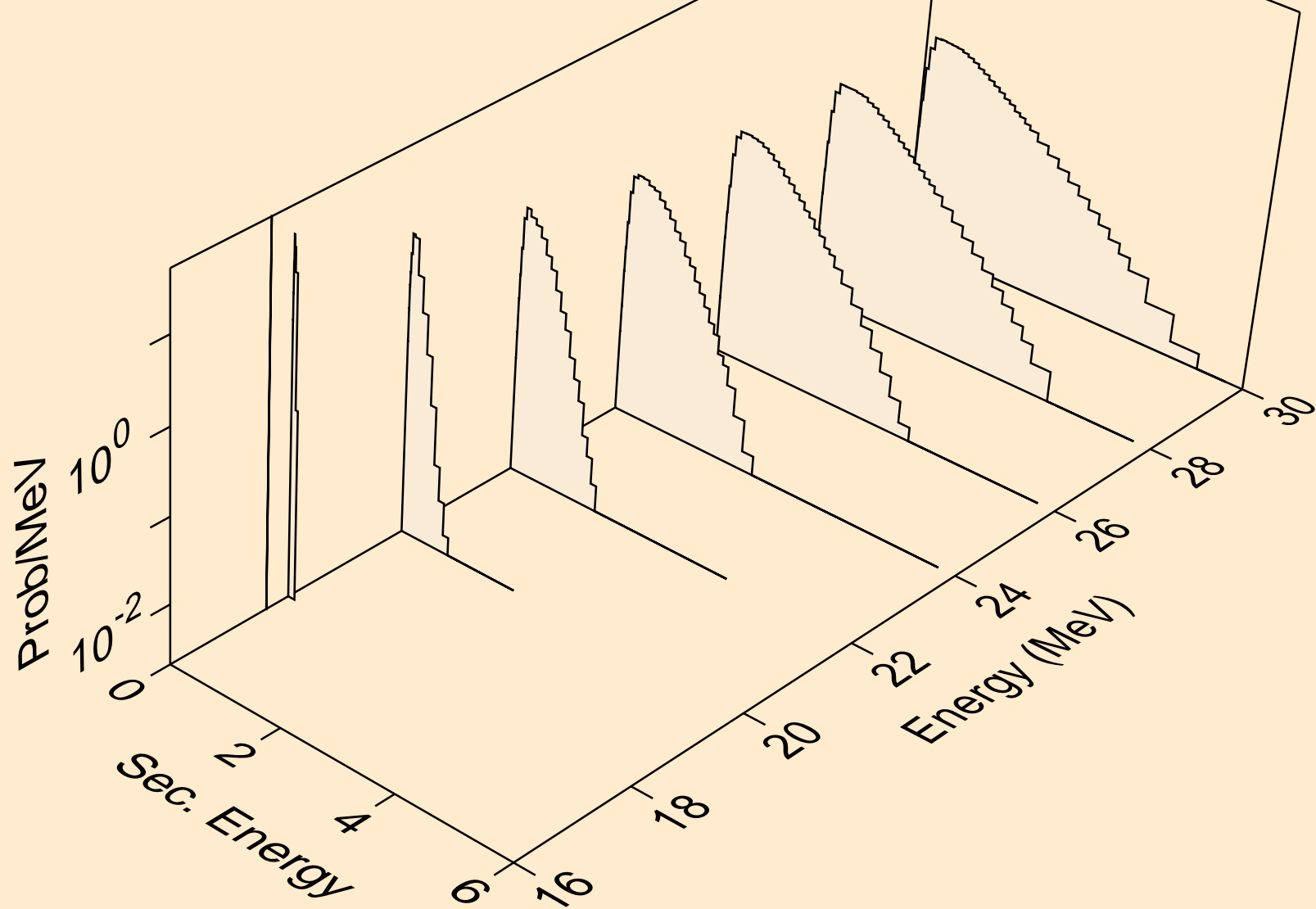
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neutrons from (p,n\*)t



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3

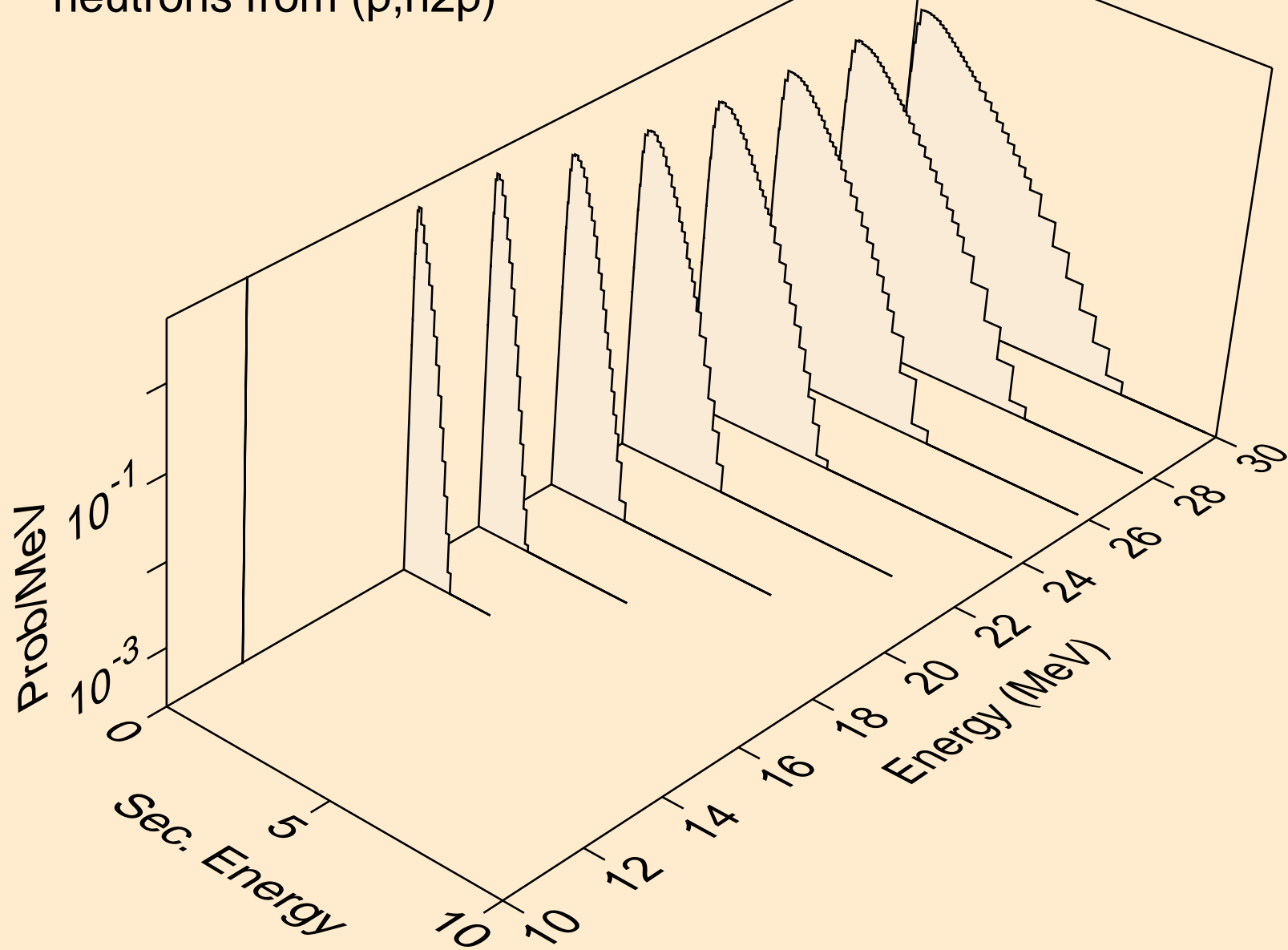


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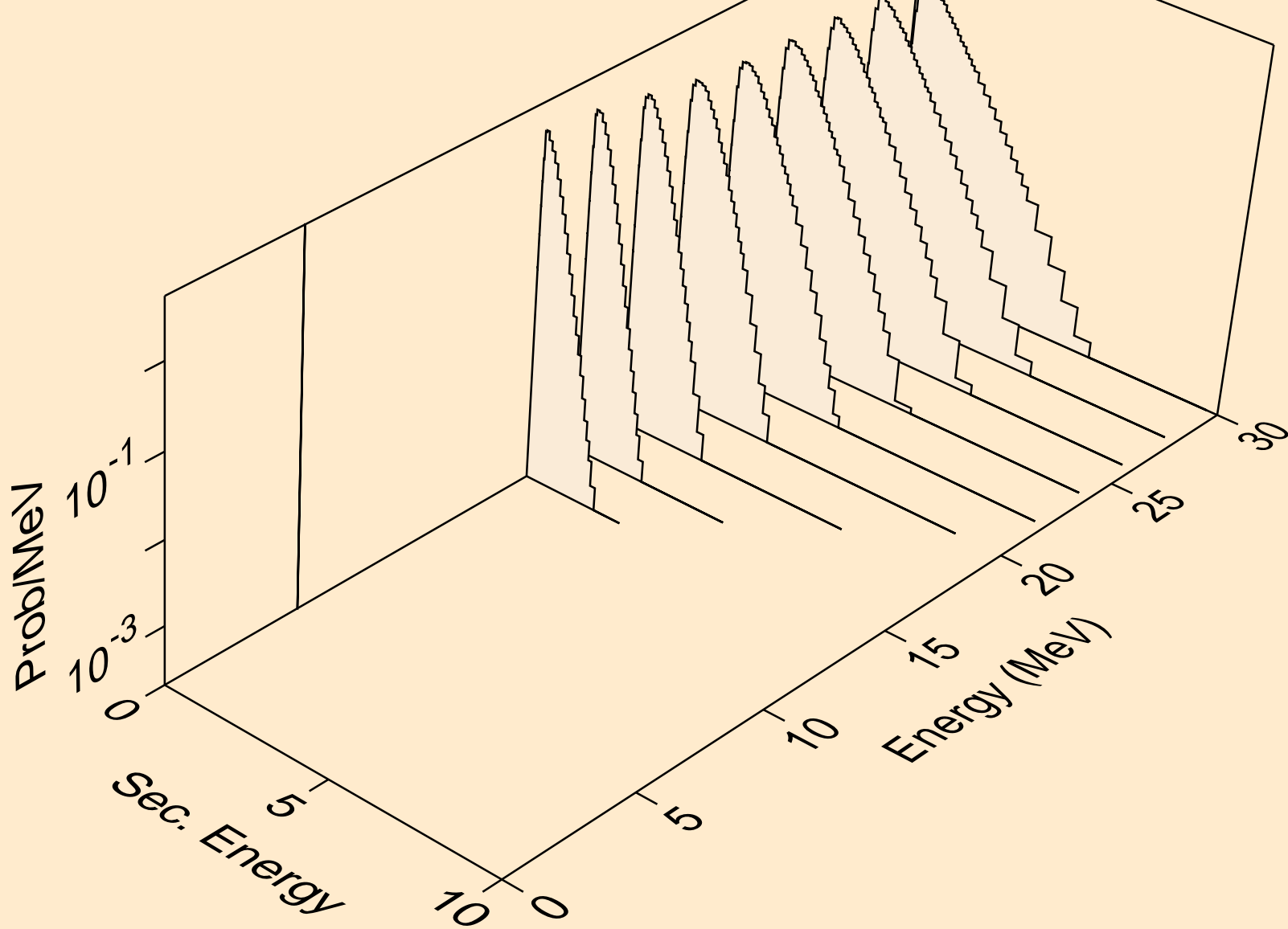




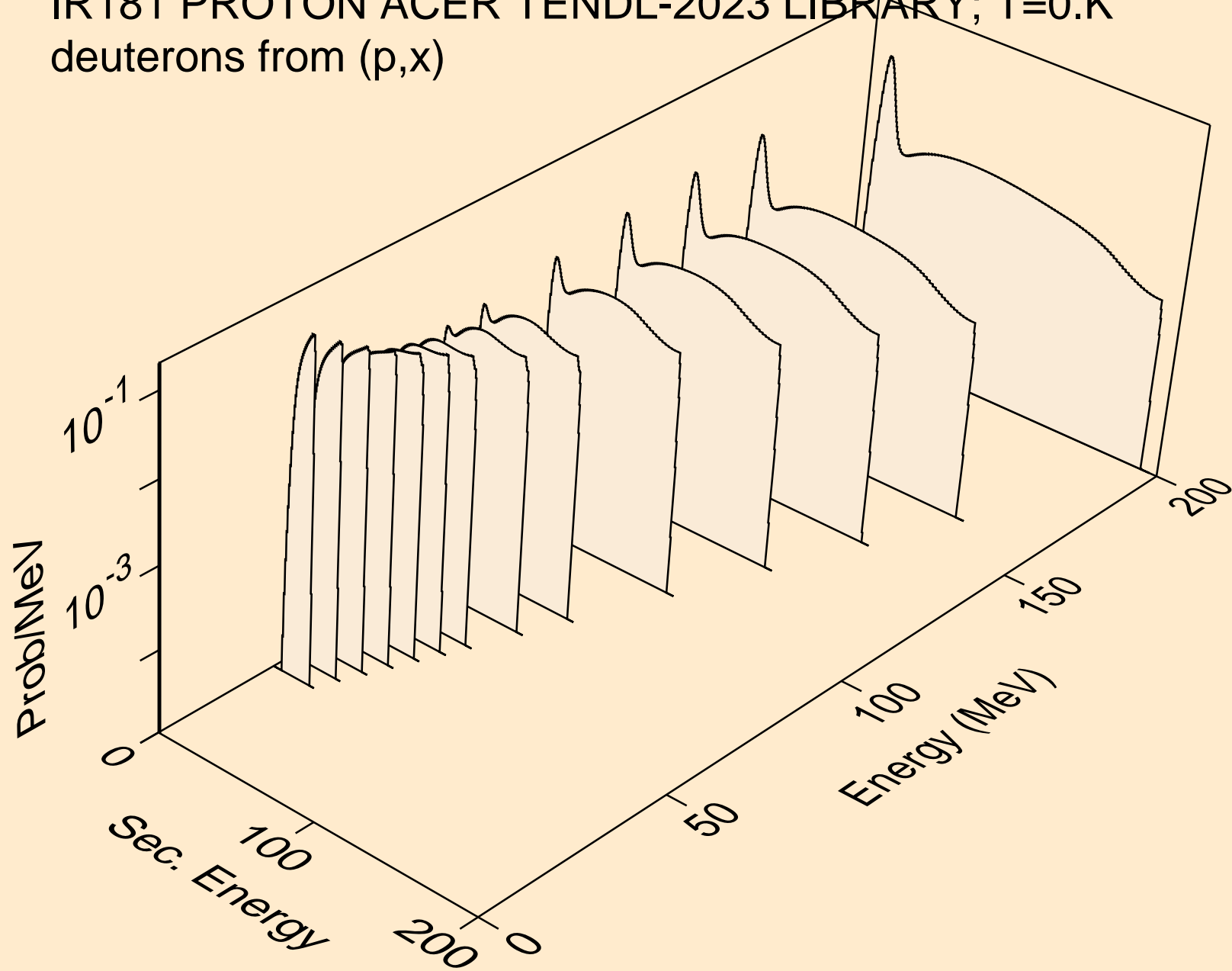
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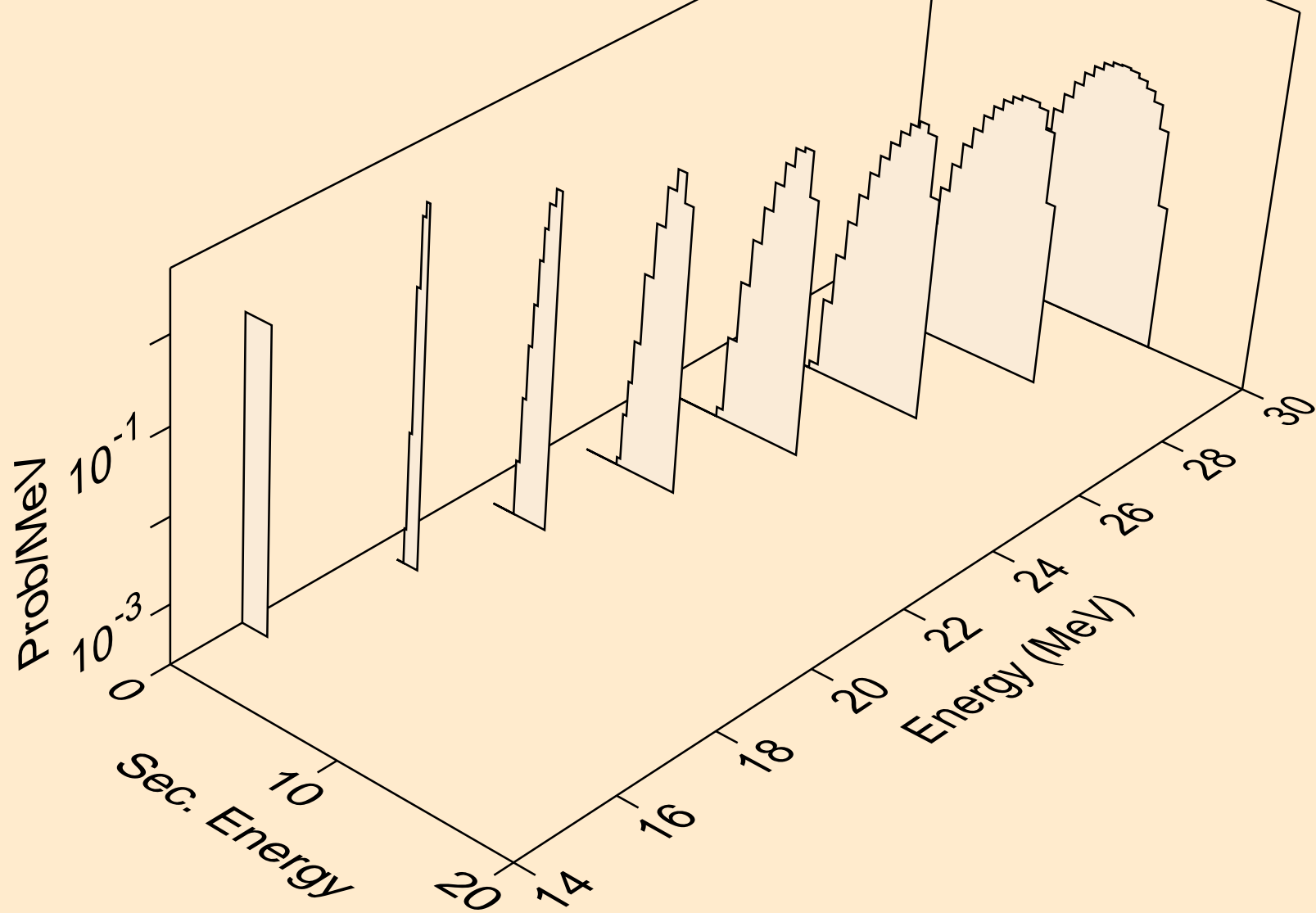
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



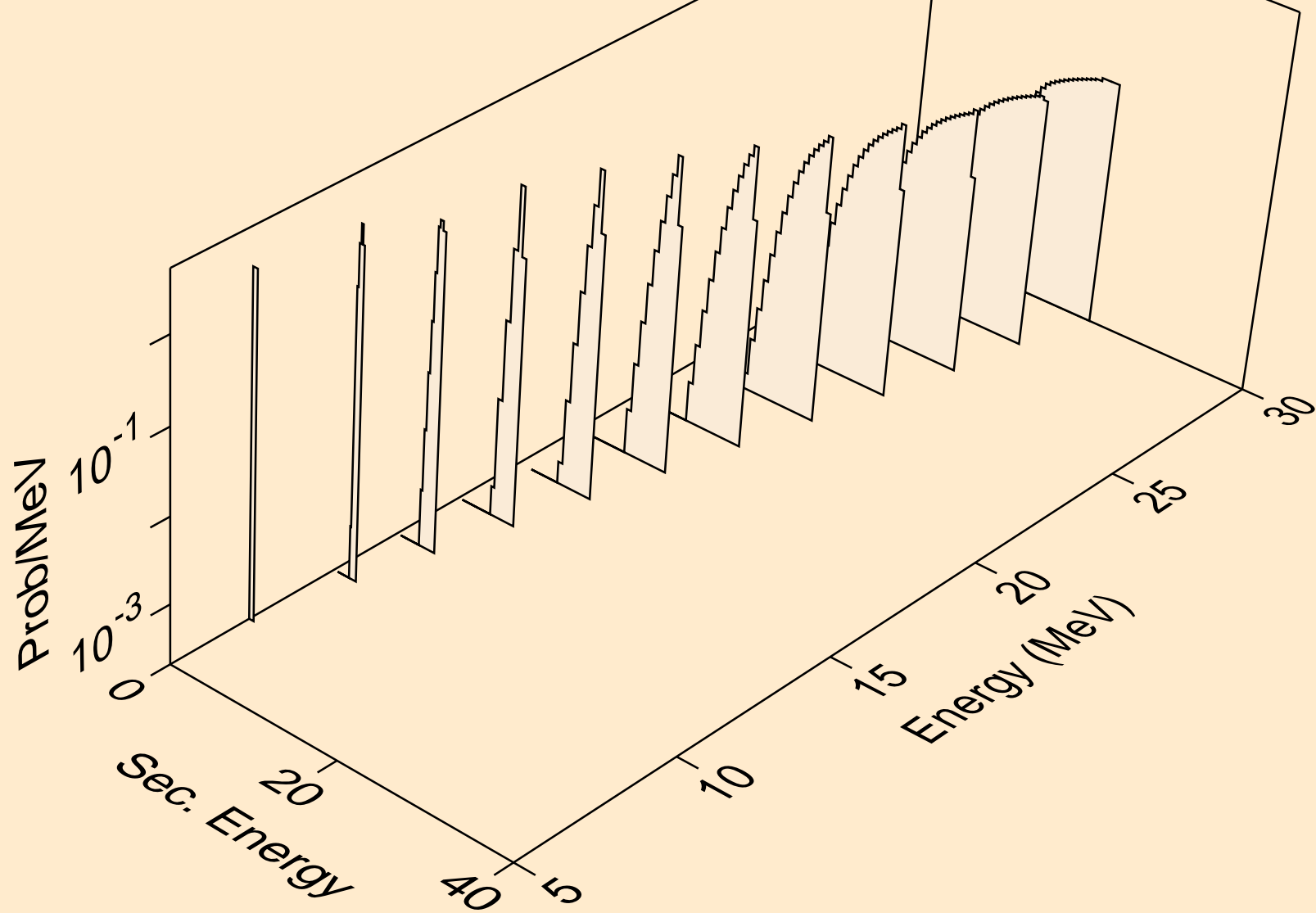
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



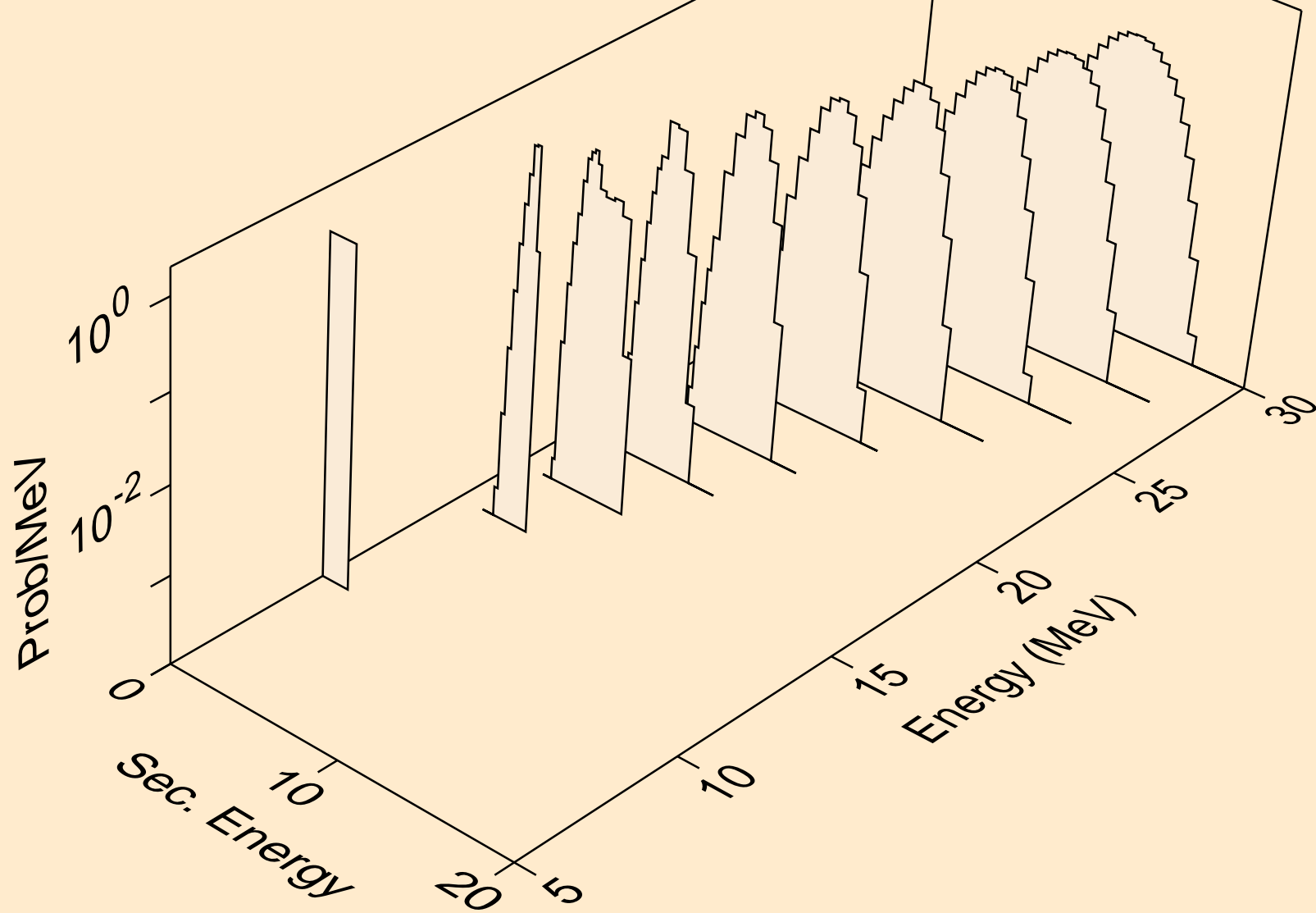
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



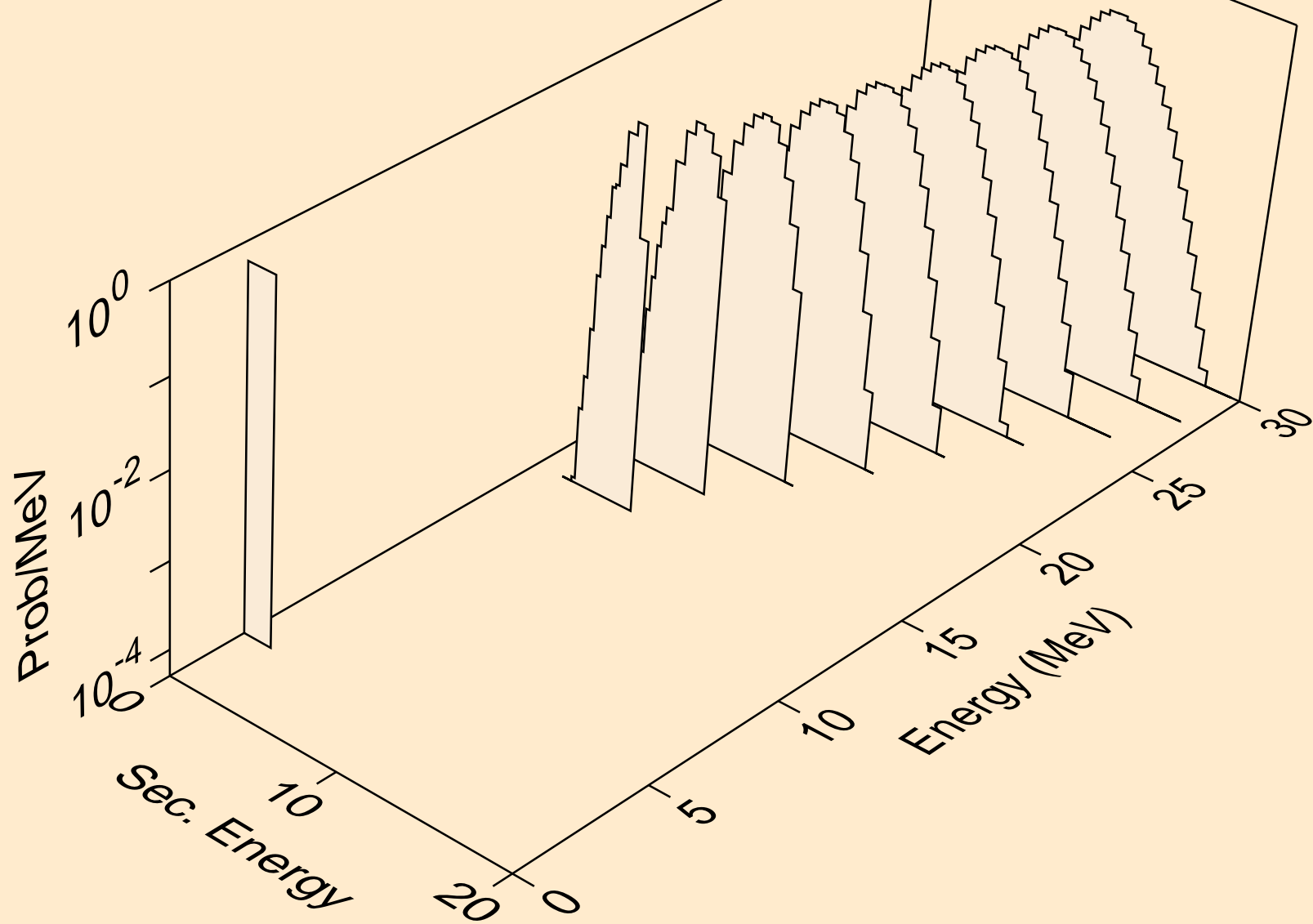
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



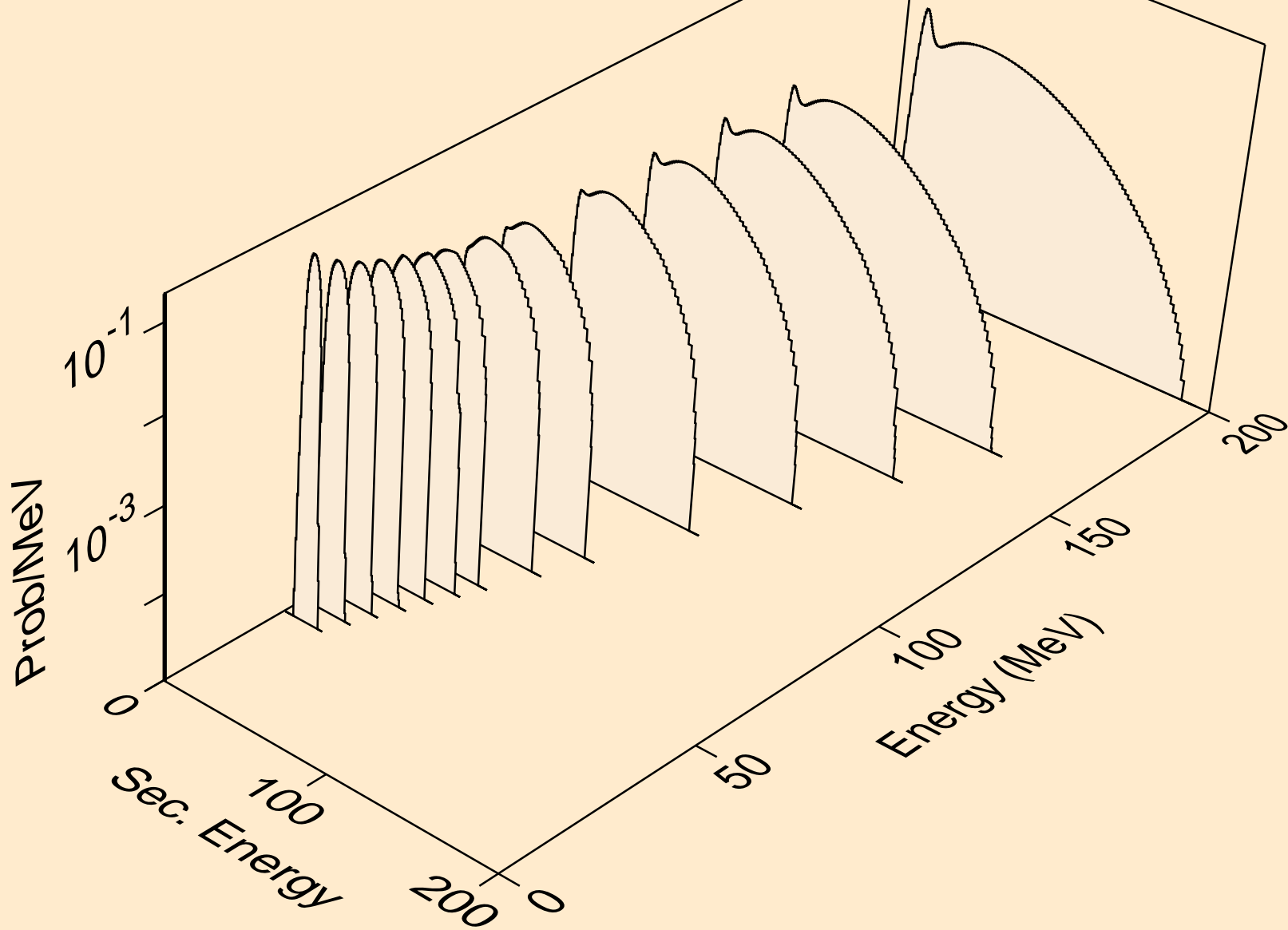
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

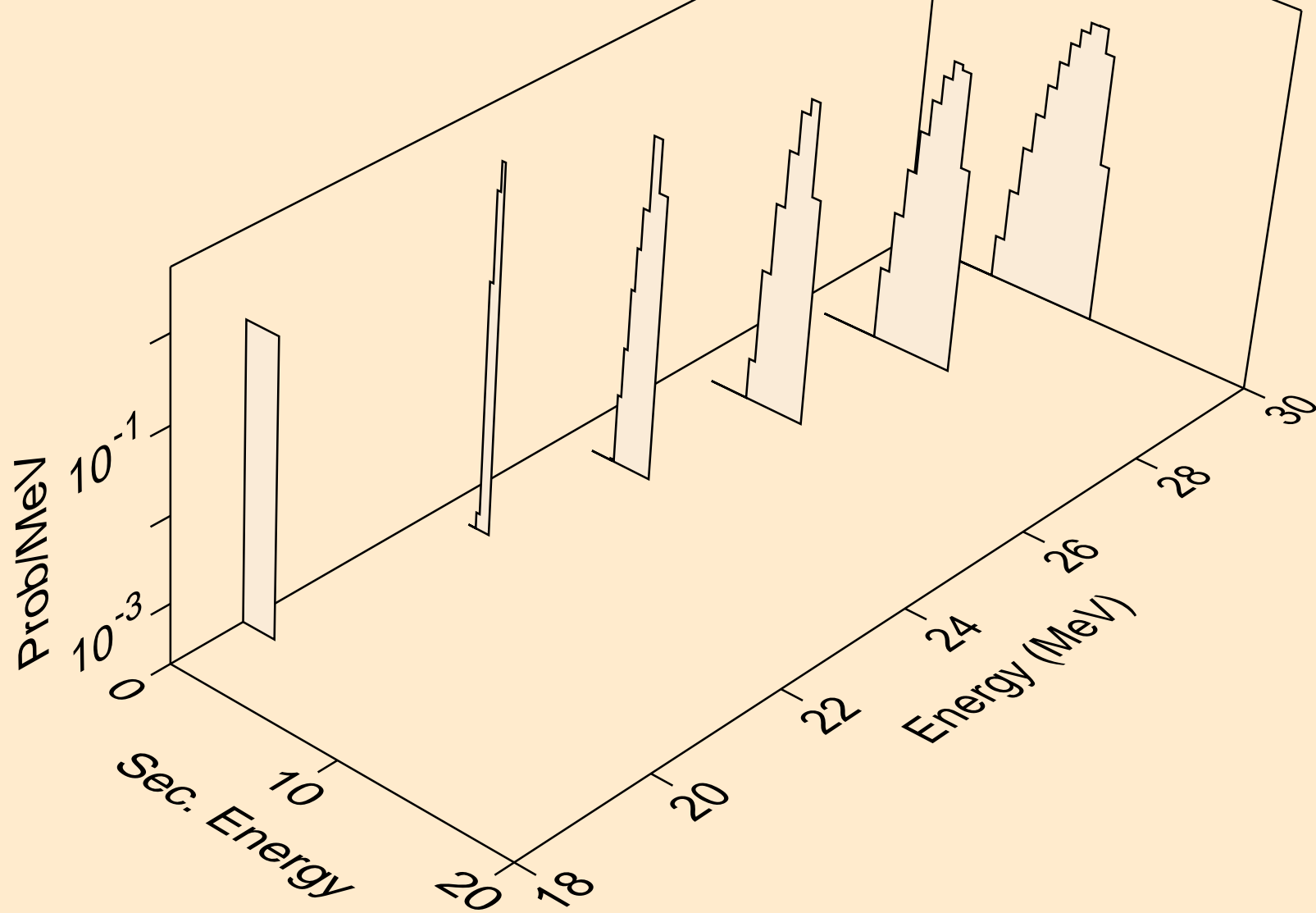


IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

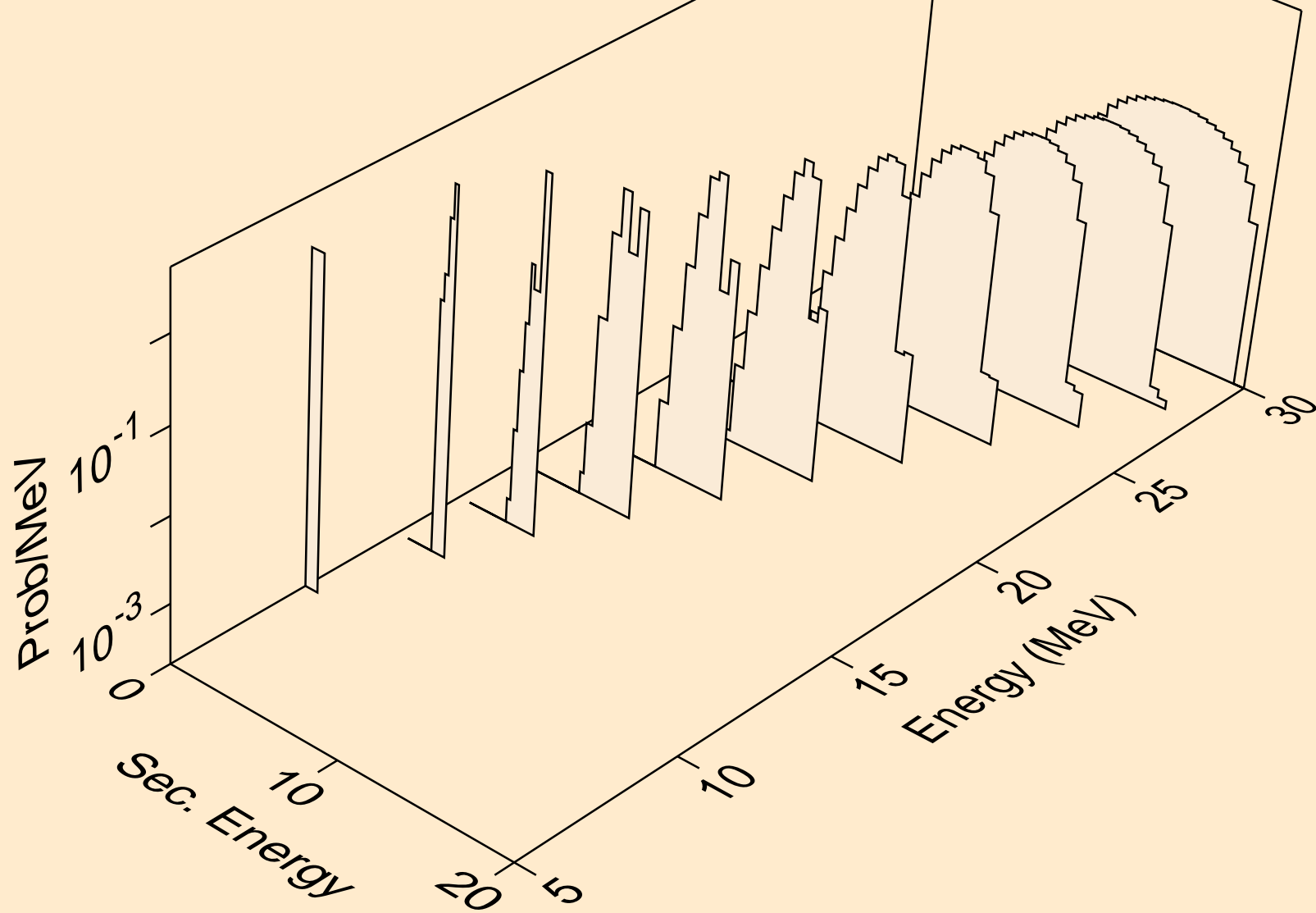




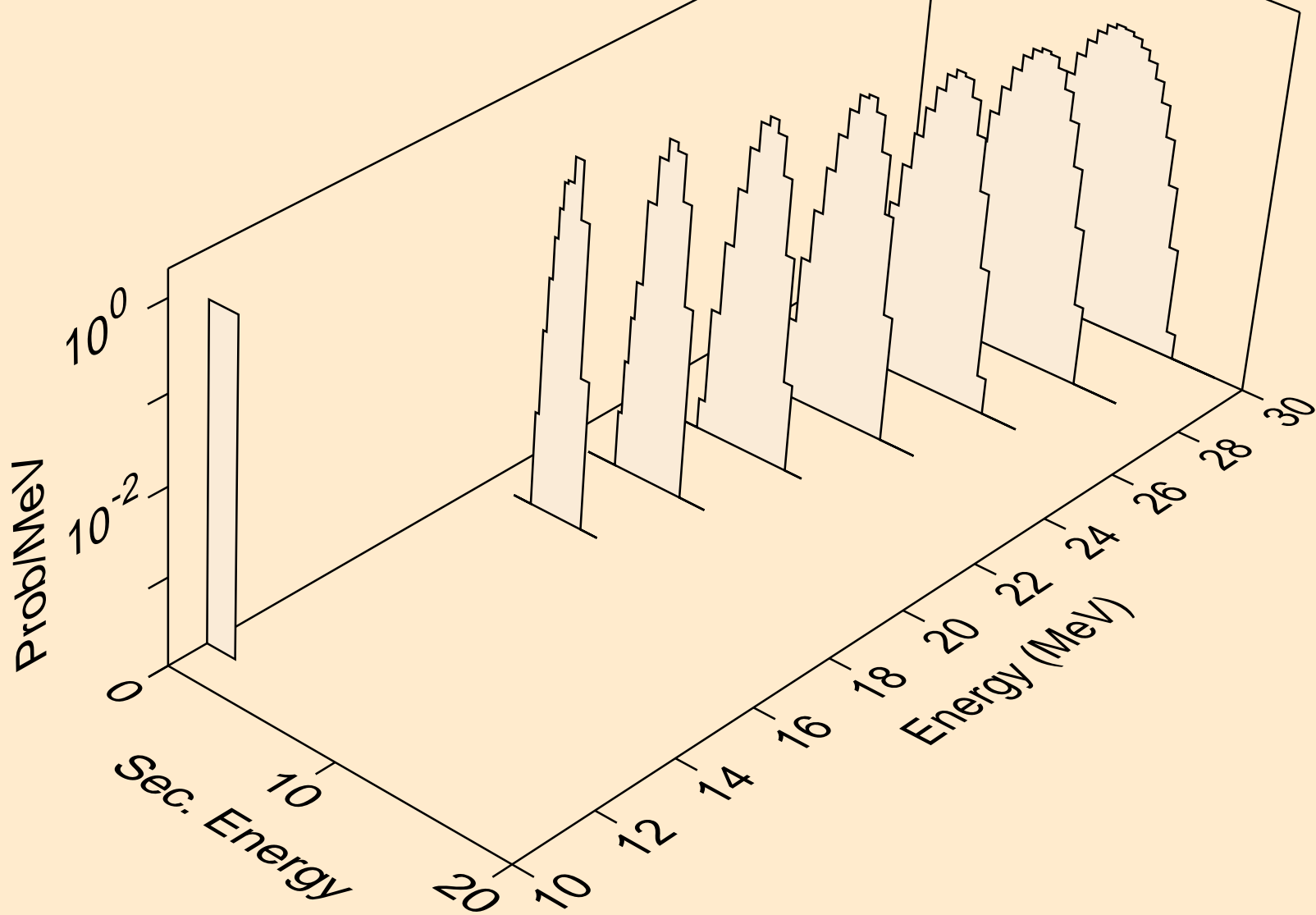
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



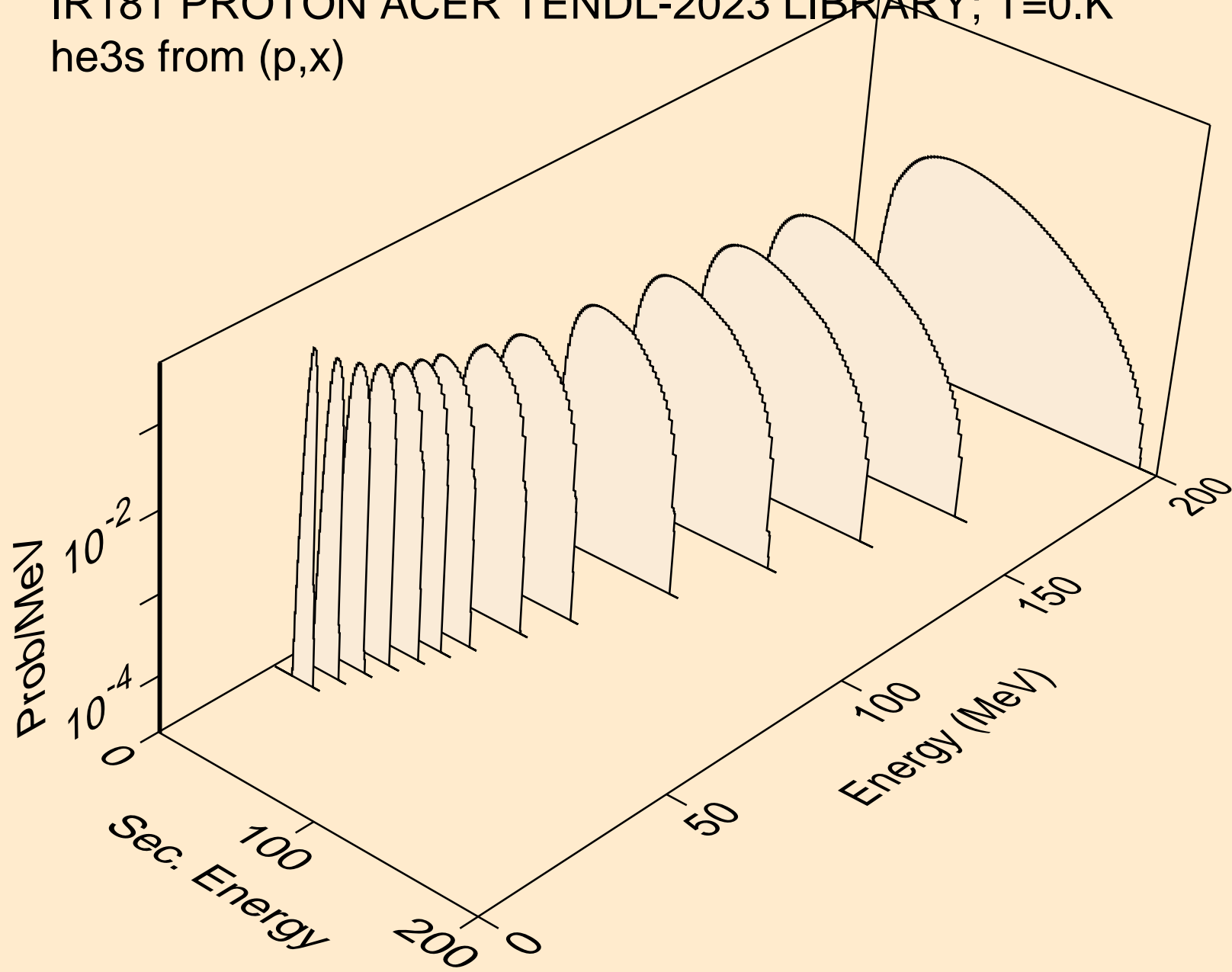
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



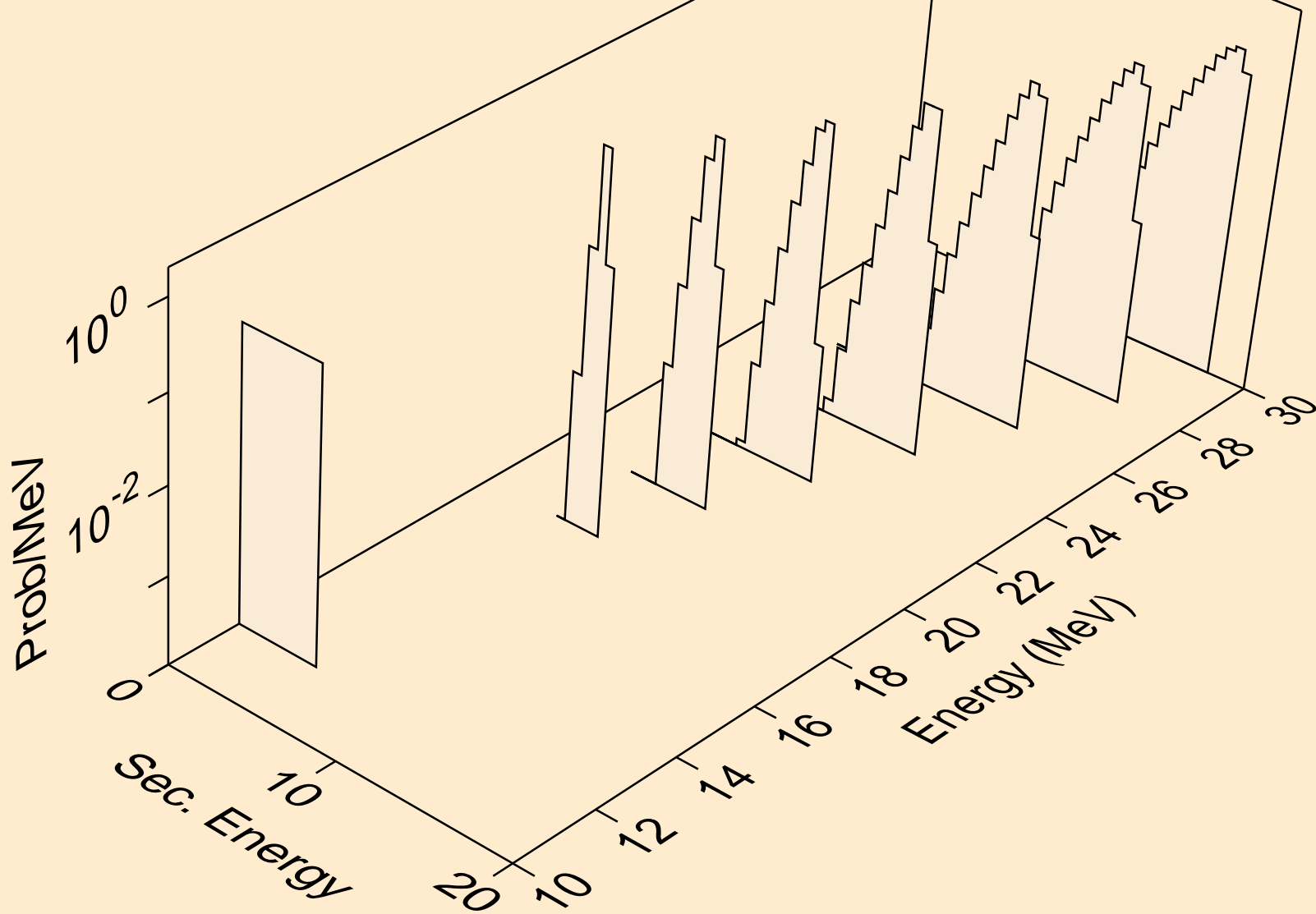
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tritons from (p,pt)



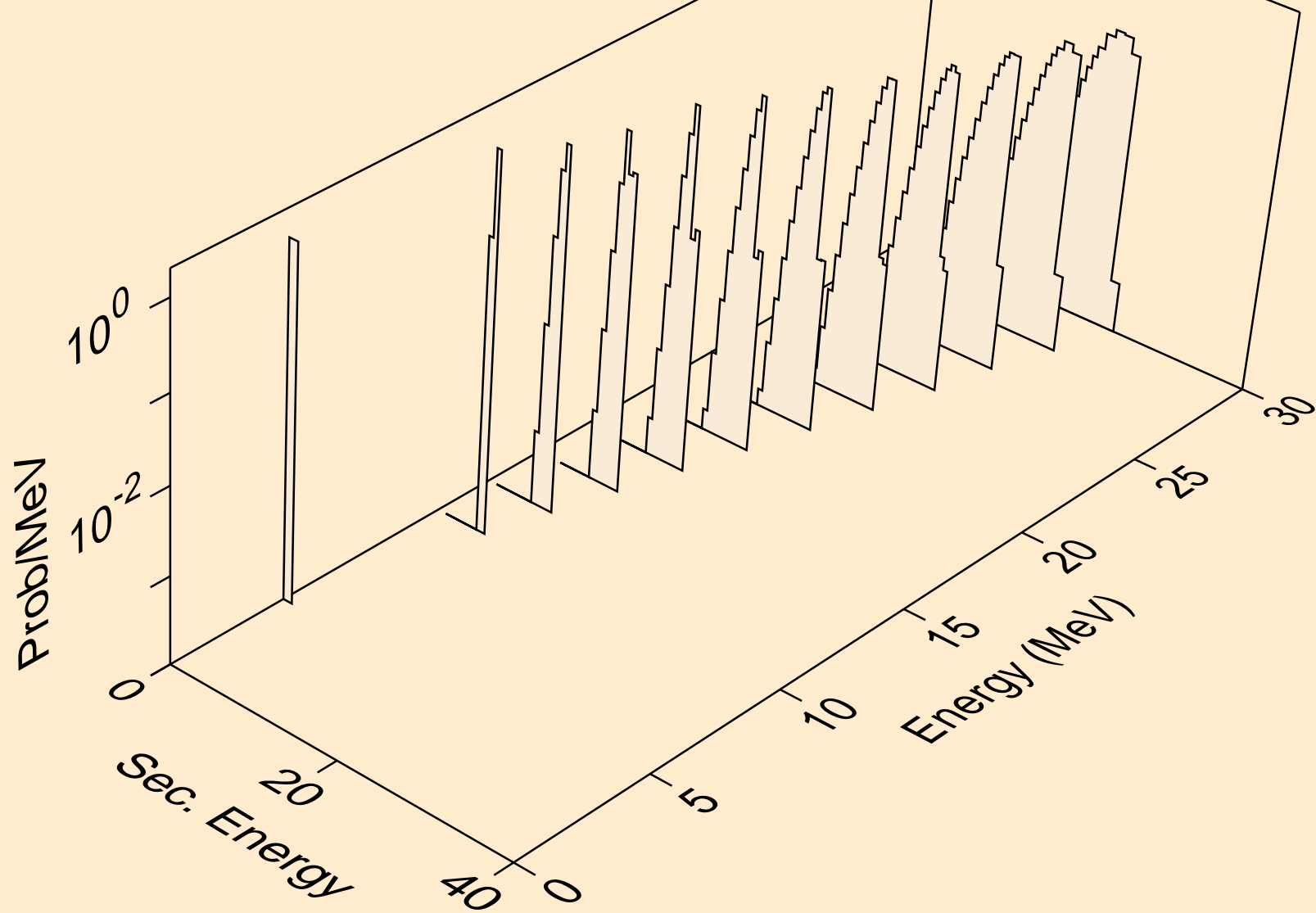
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



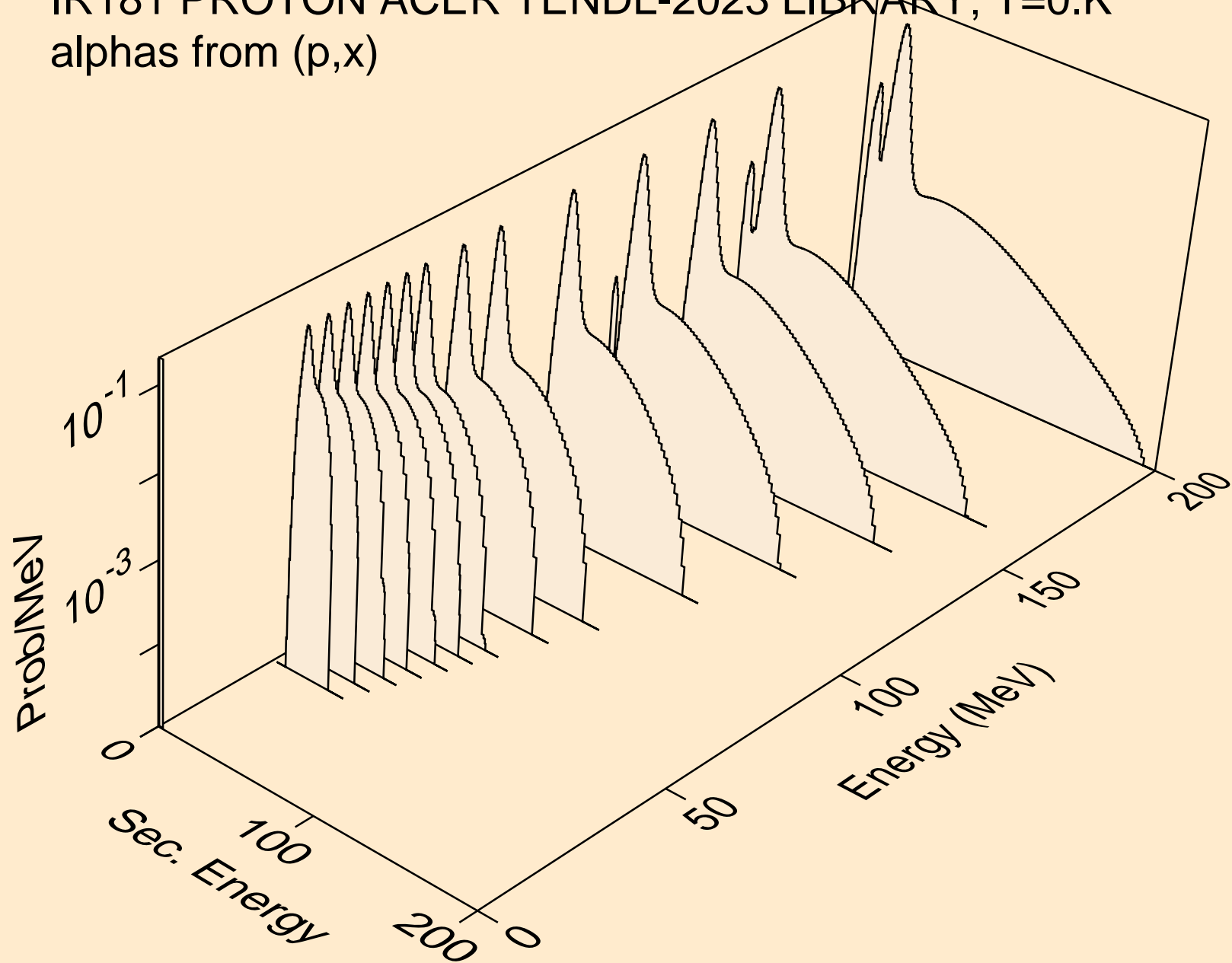
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



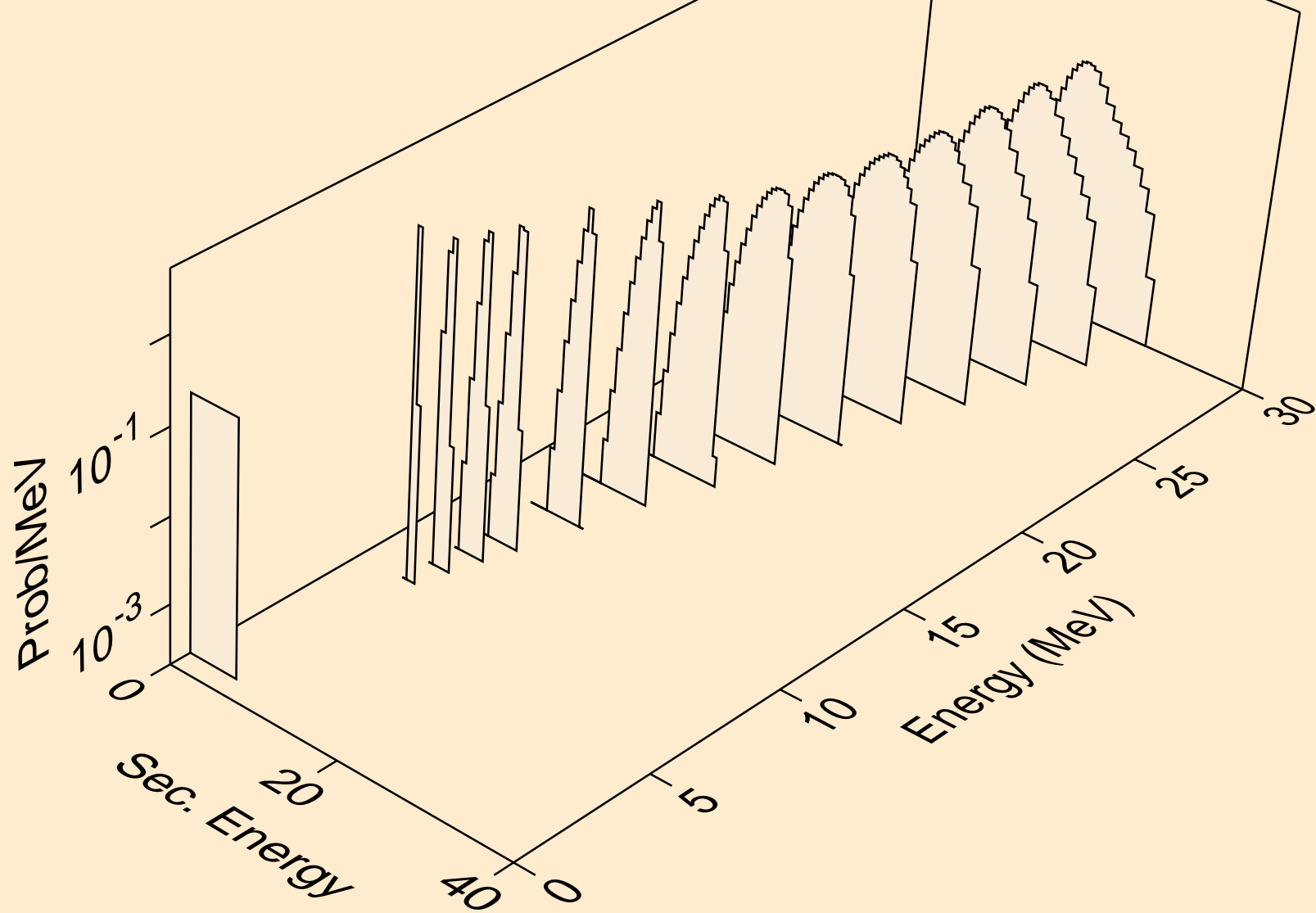
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

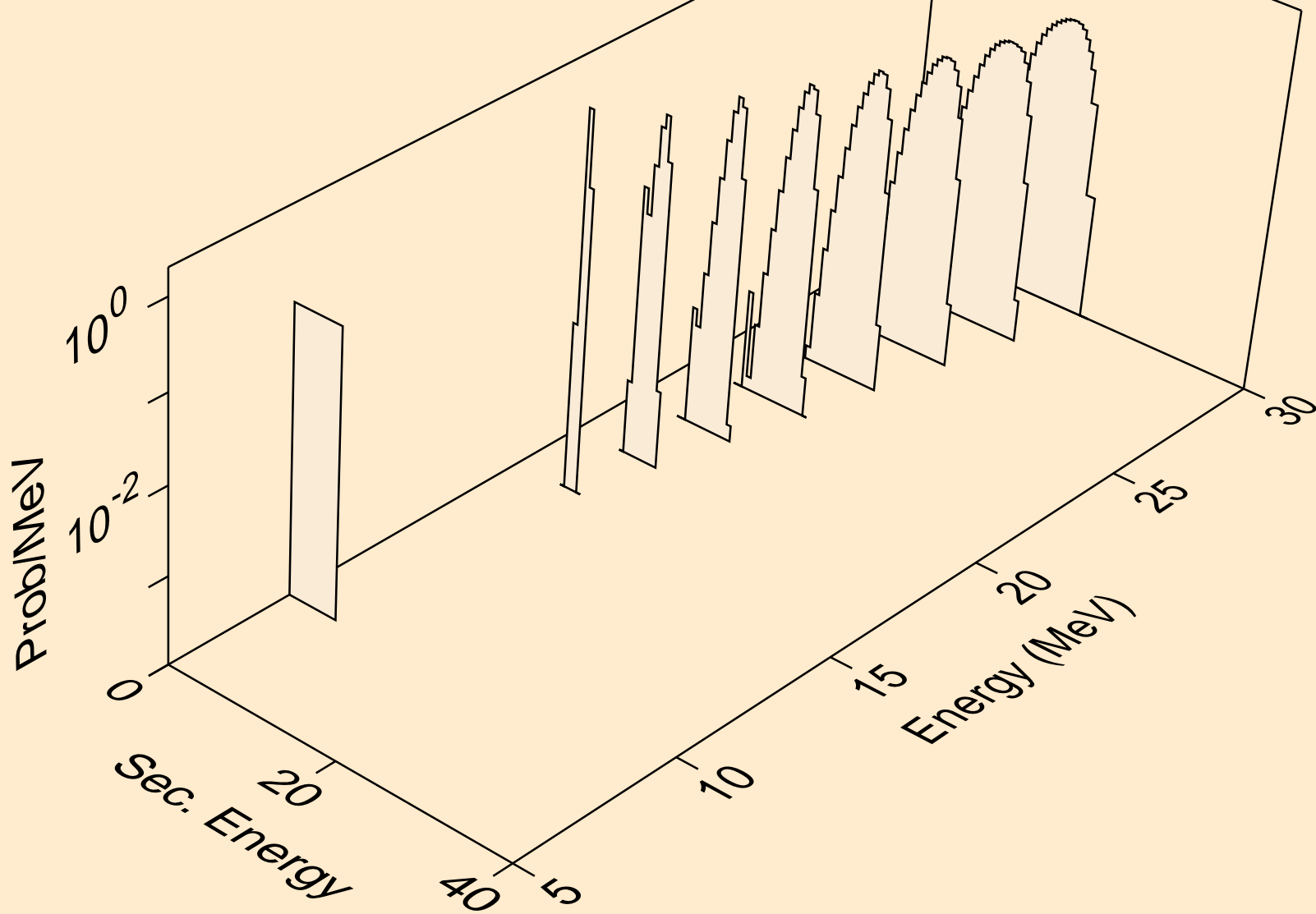


IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

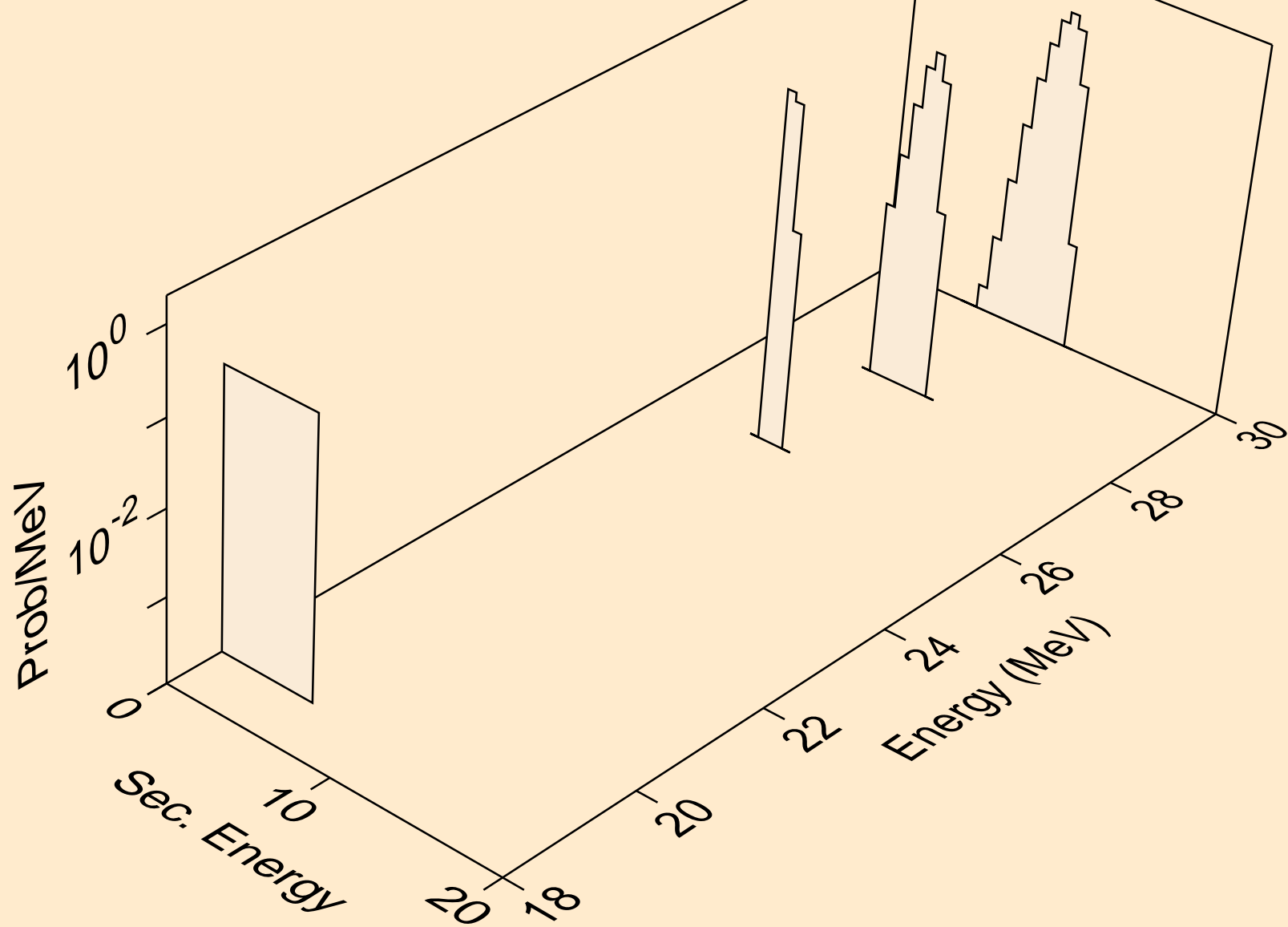




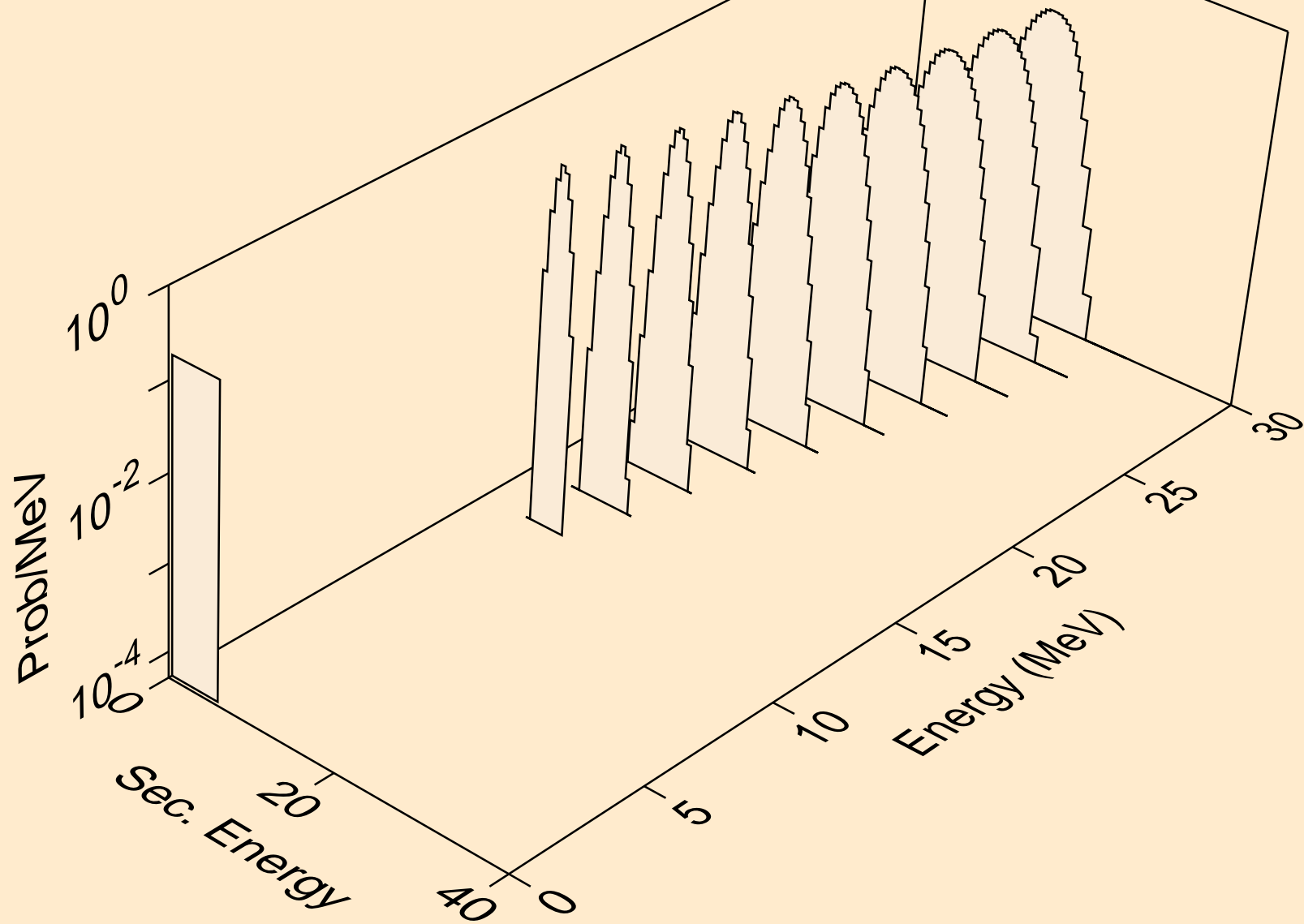
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



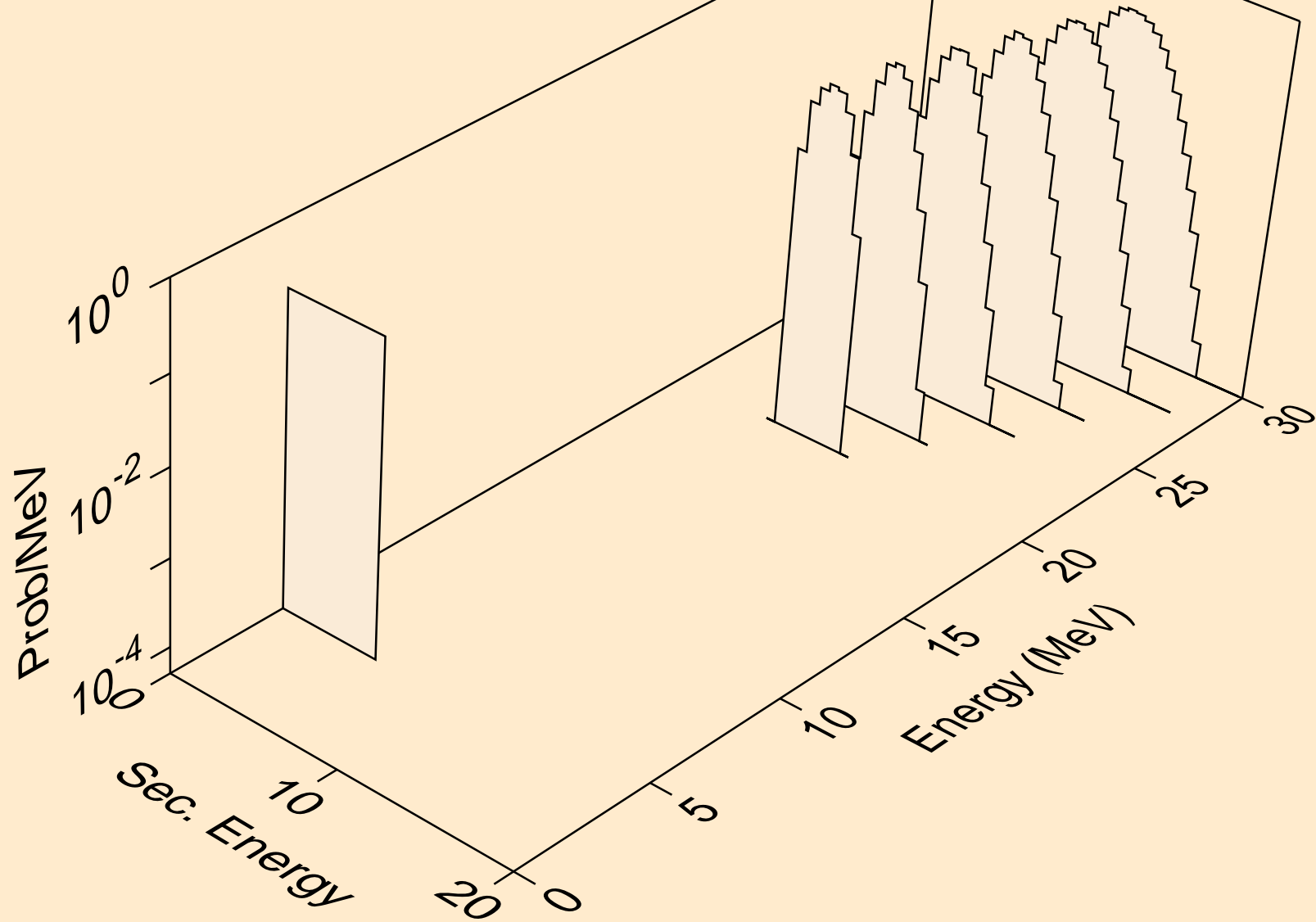
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a



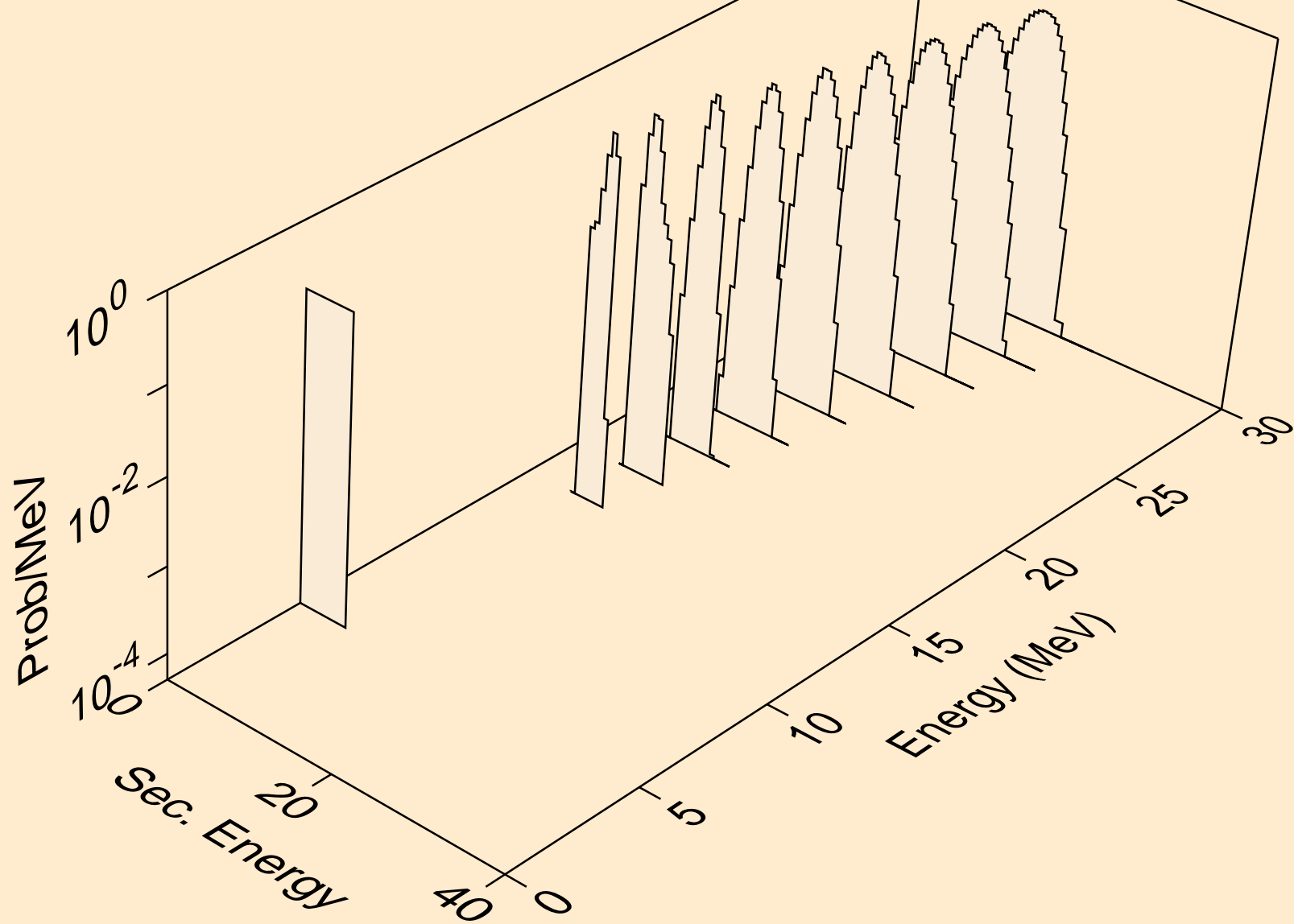
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



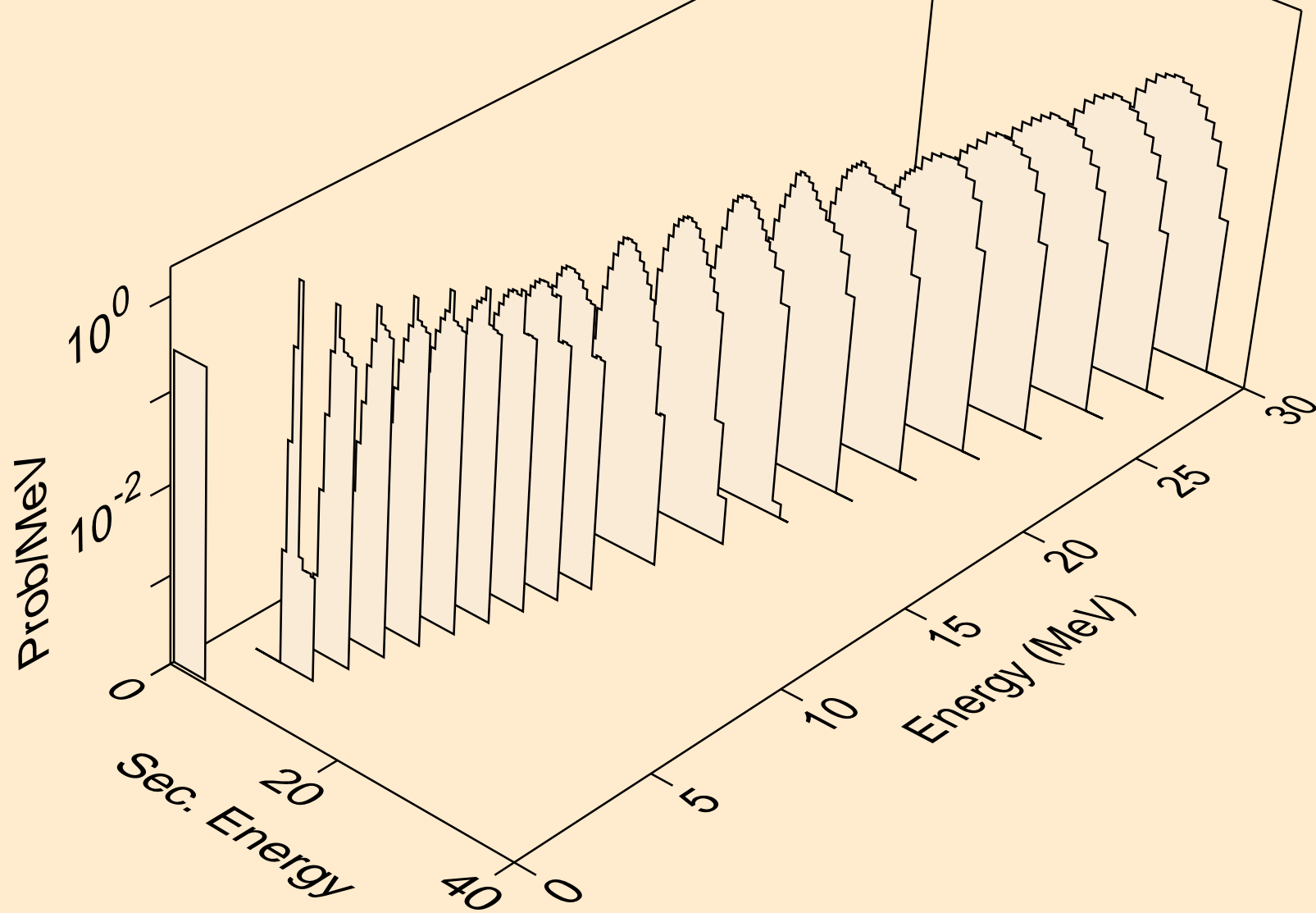
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)2a



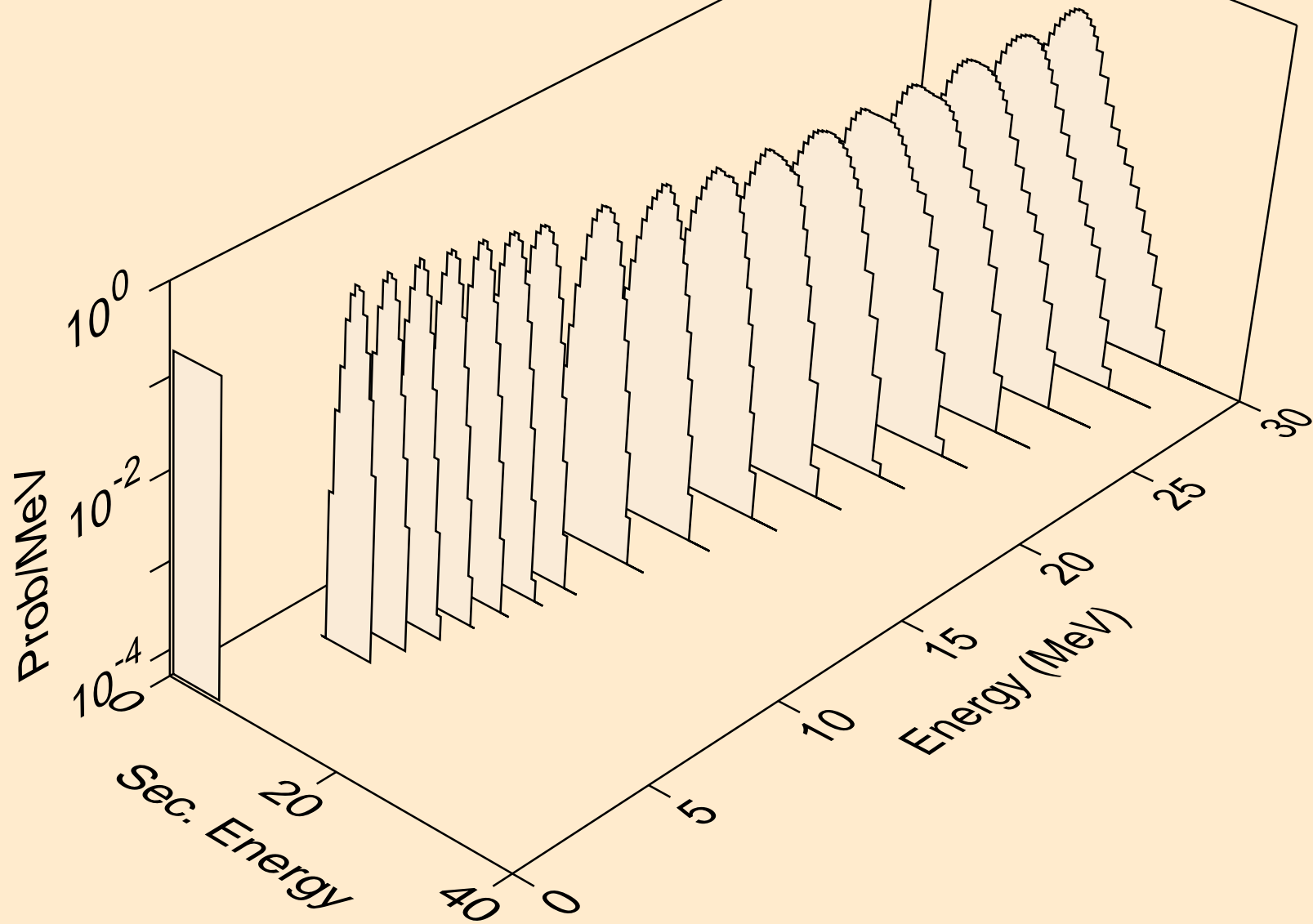
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



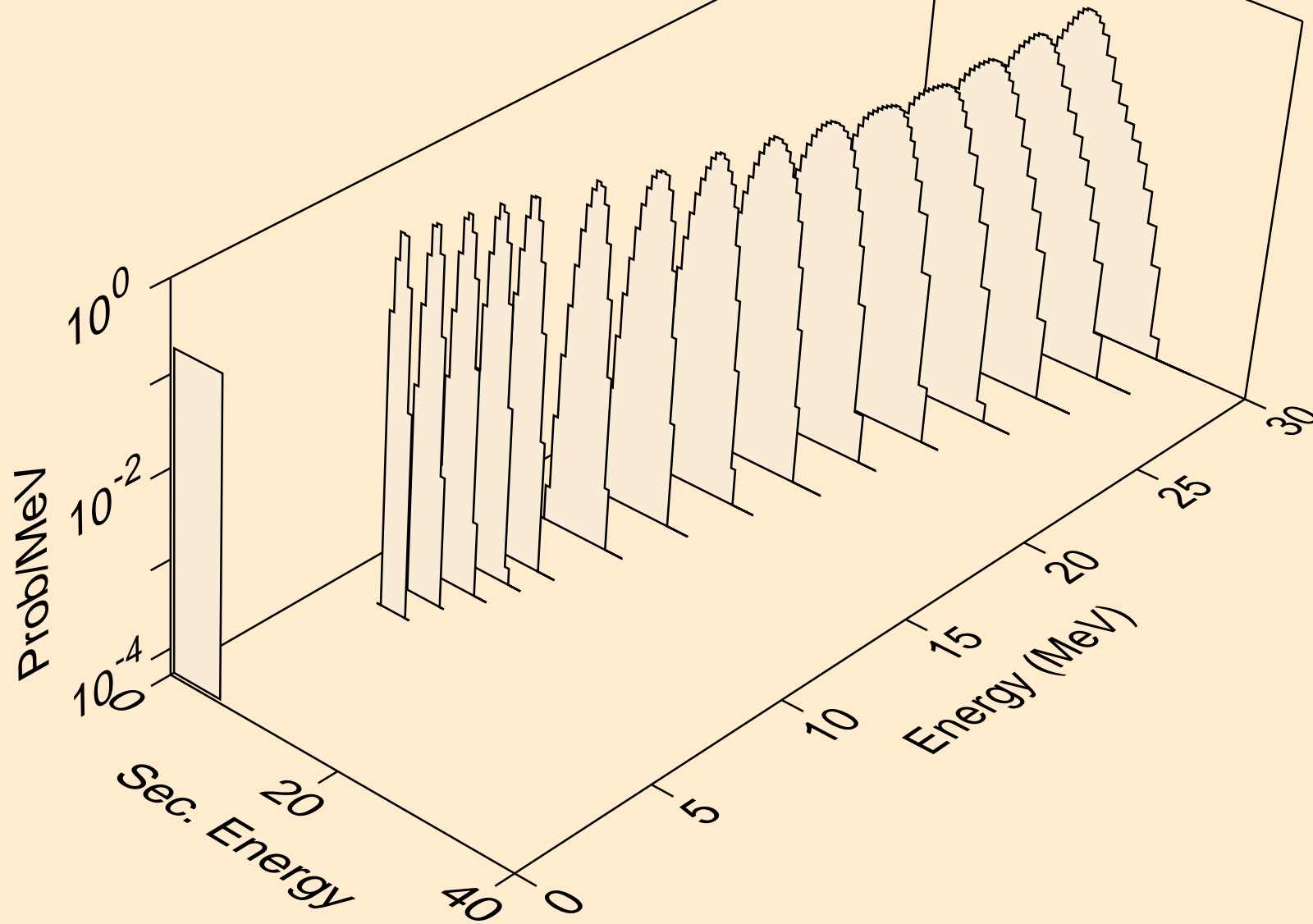
IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)





IR181 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

