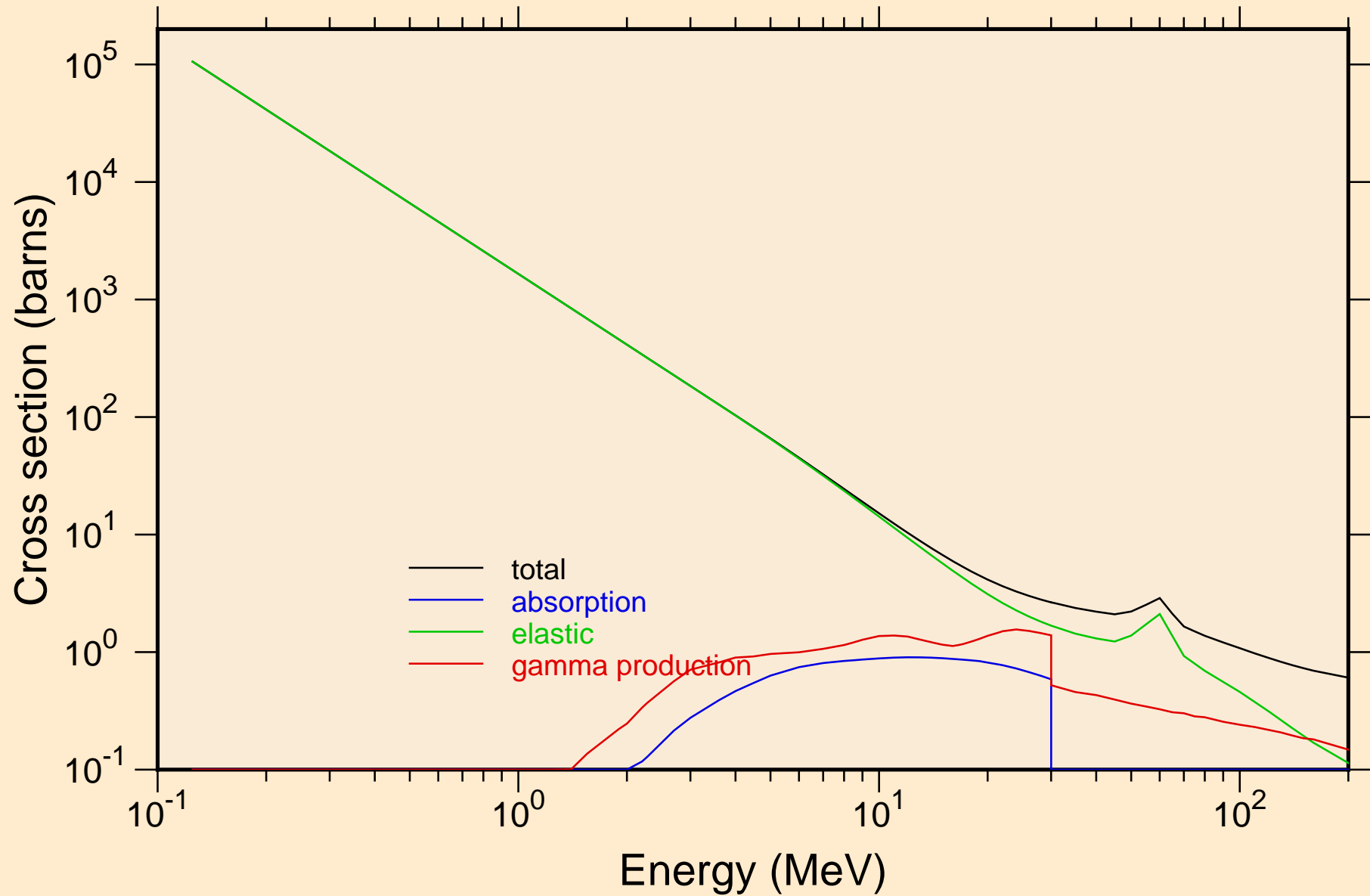


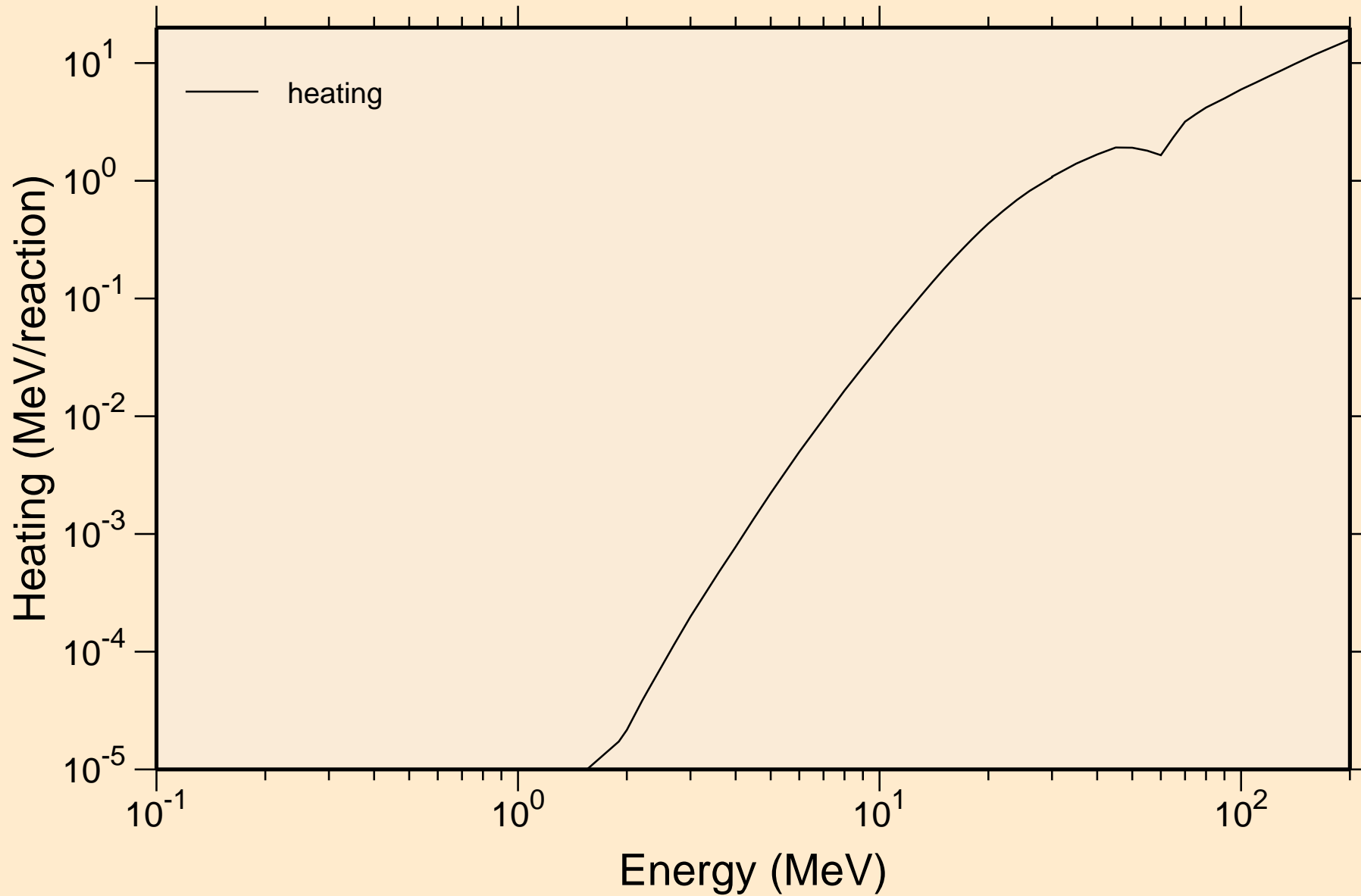
# S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



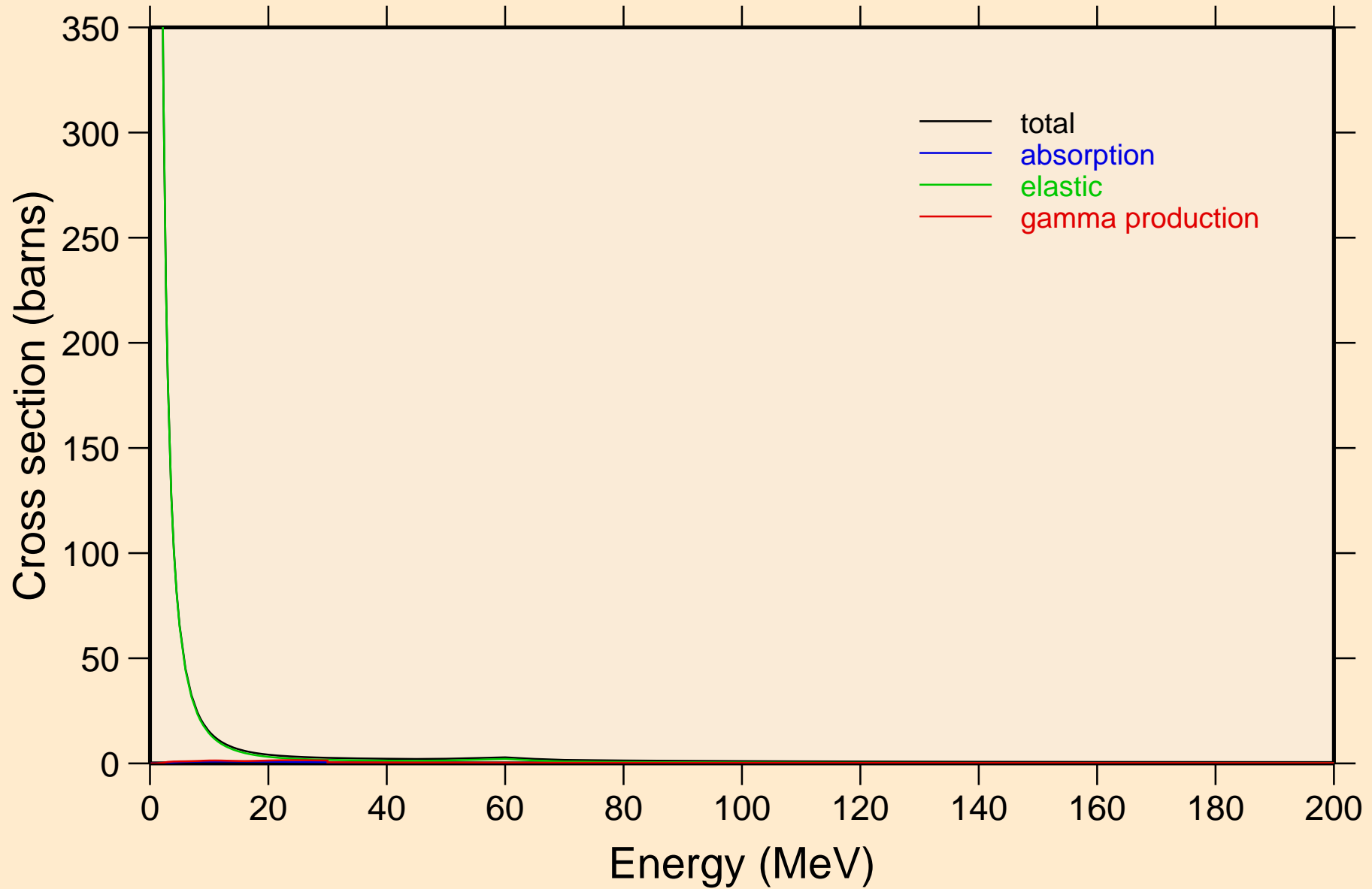
# S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



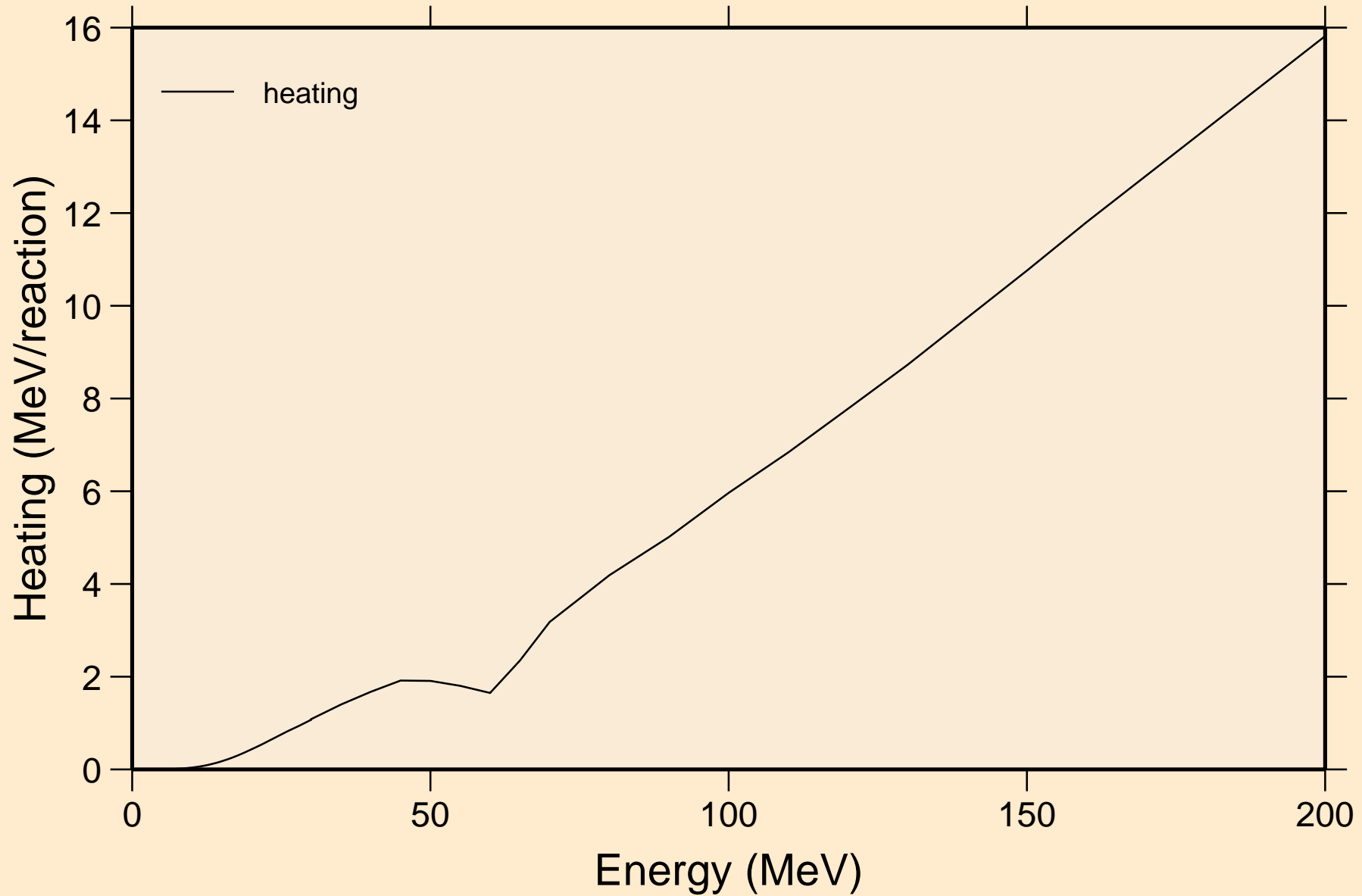
# S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



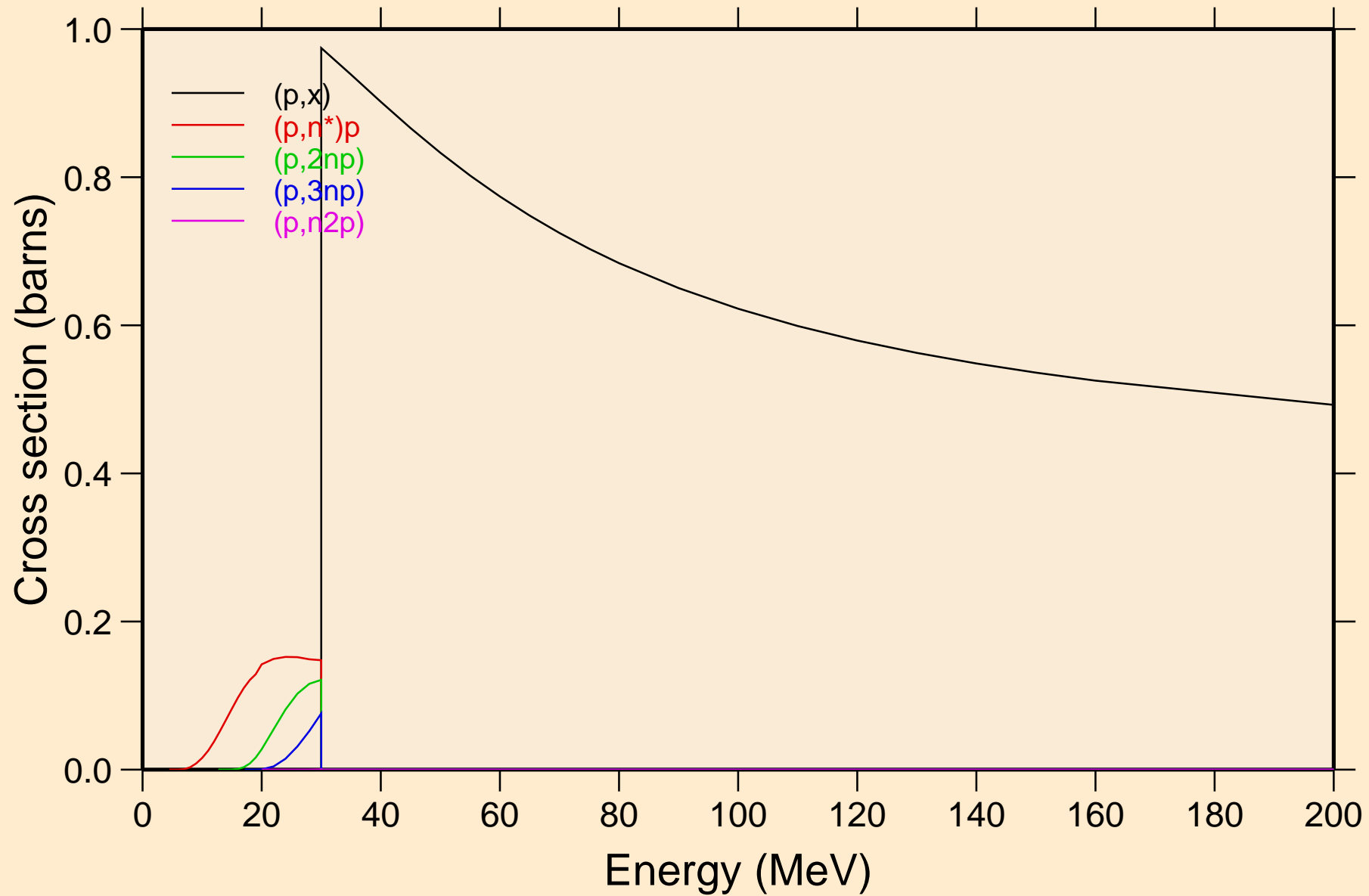
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## Heating



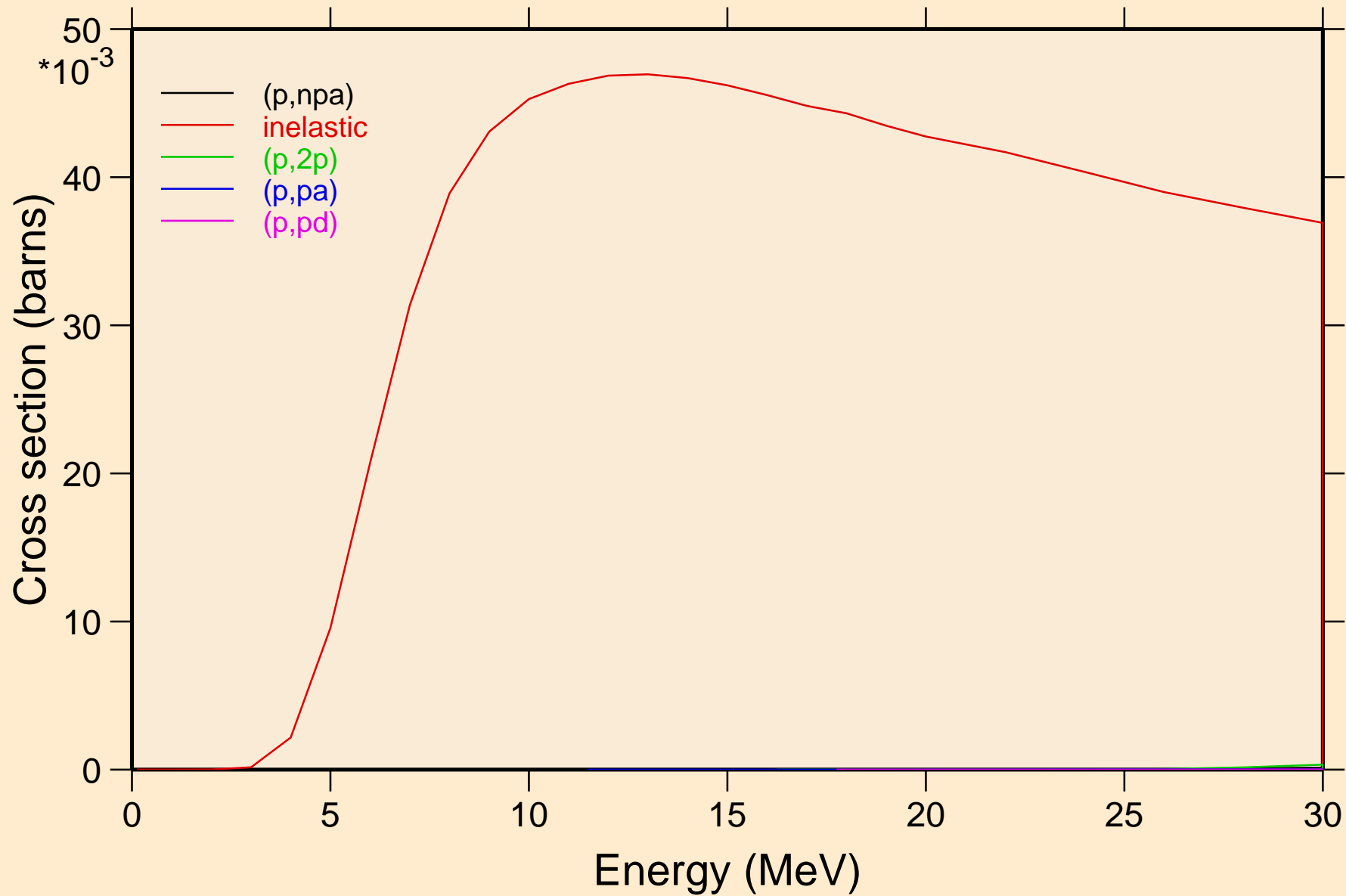
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## Threshold reactions

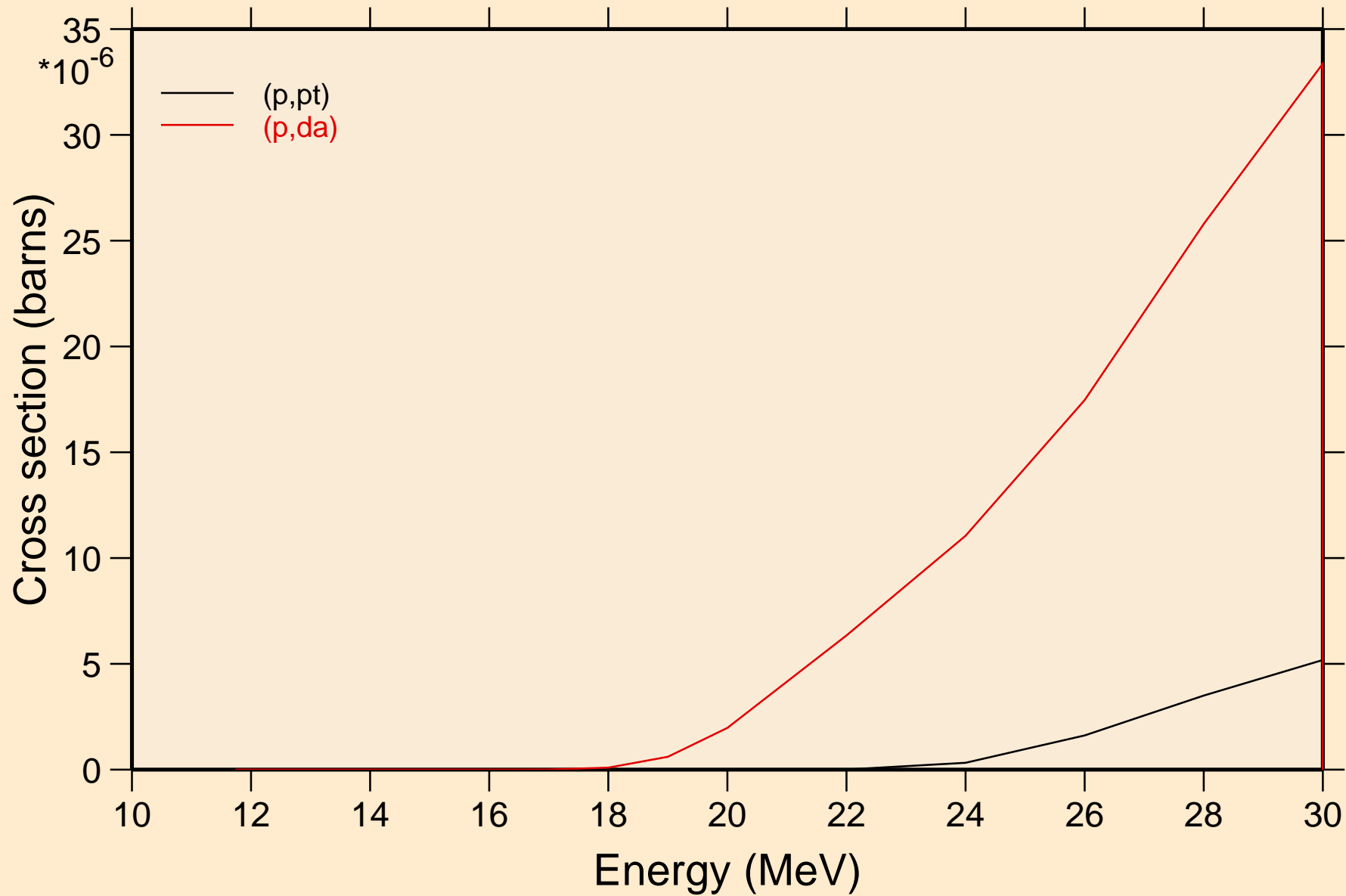


# S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K

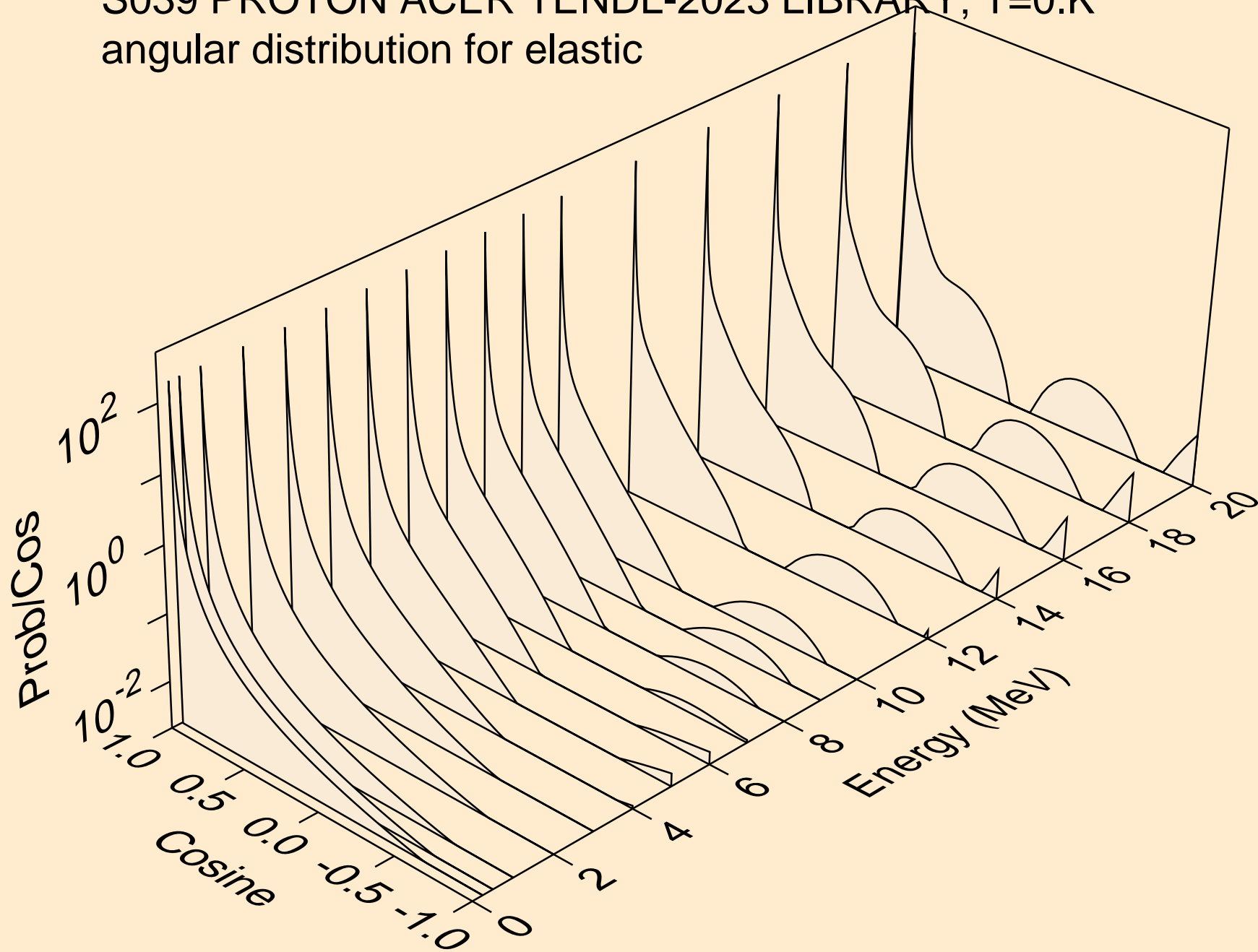
## Threshold reactions



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

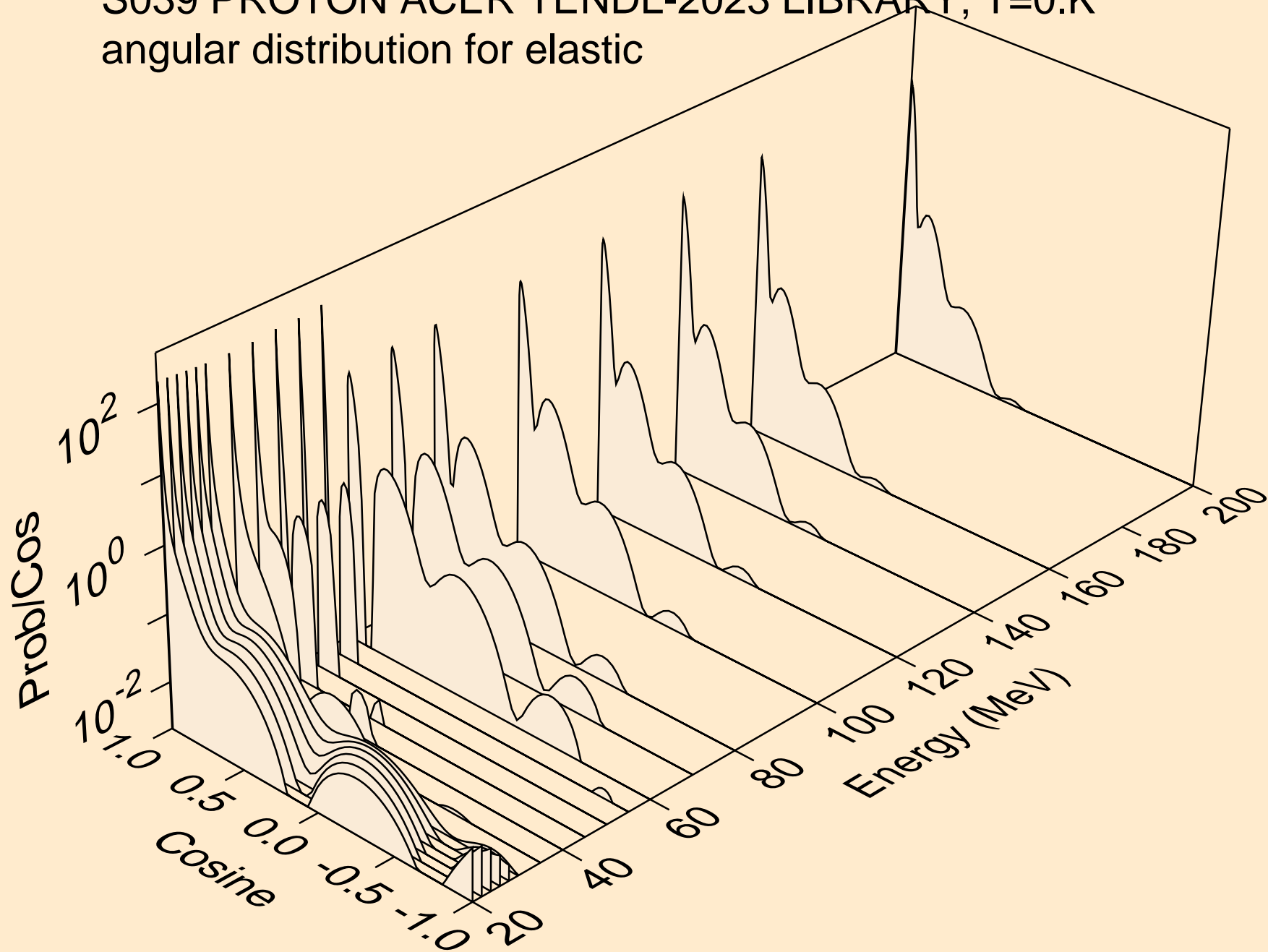


S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

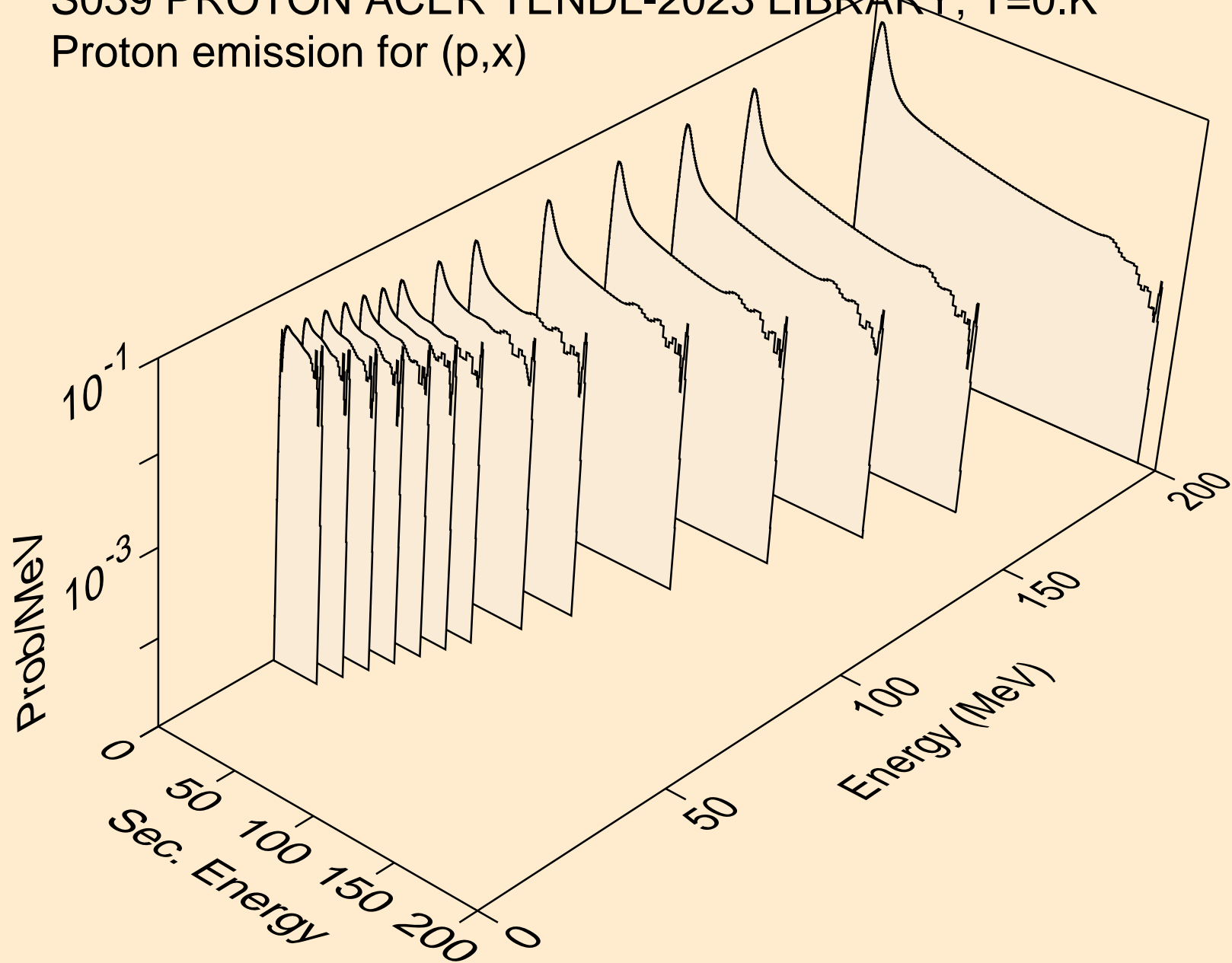




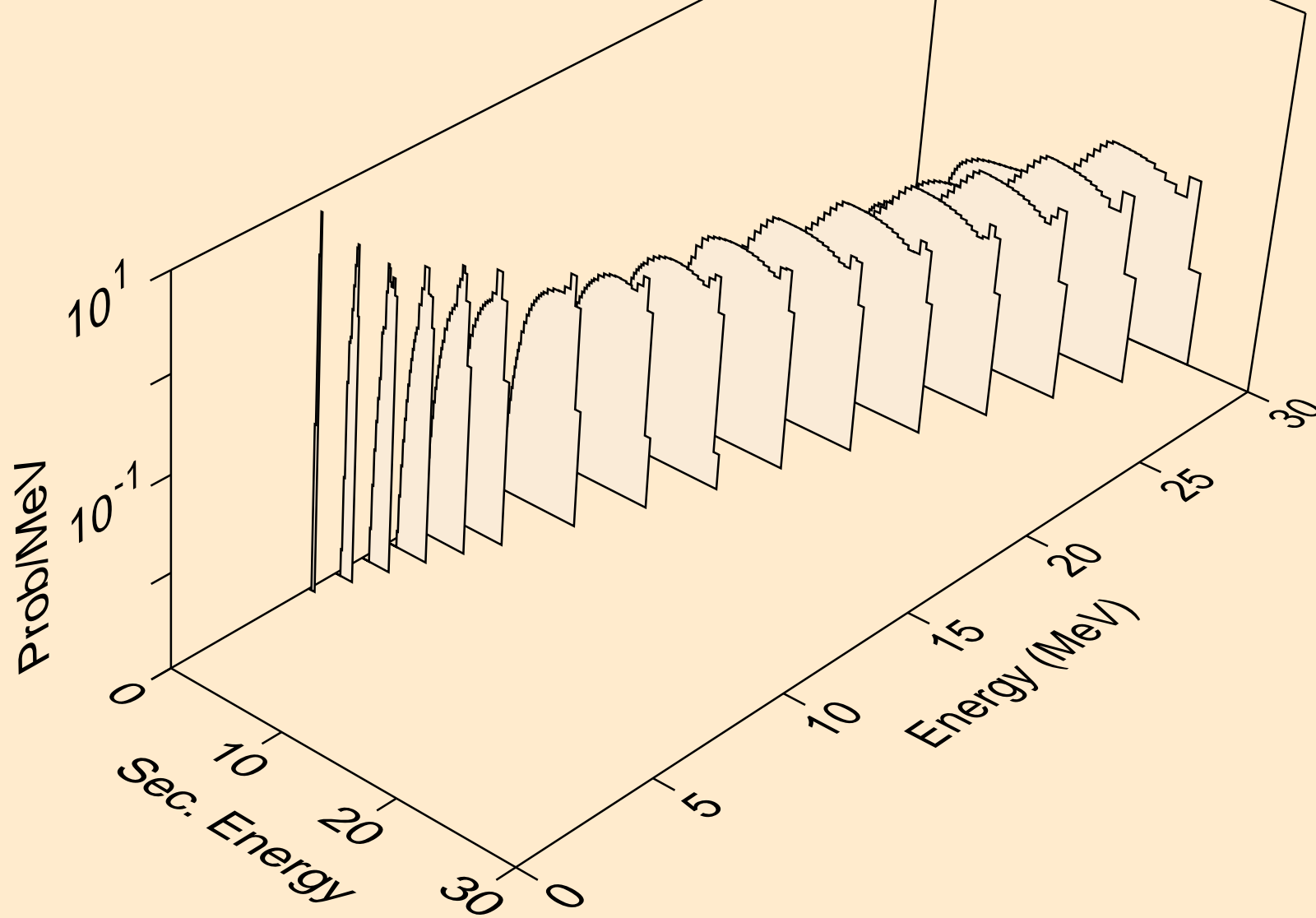
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



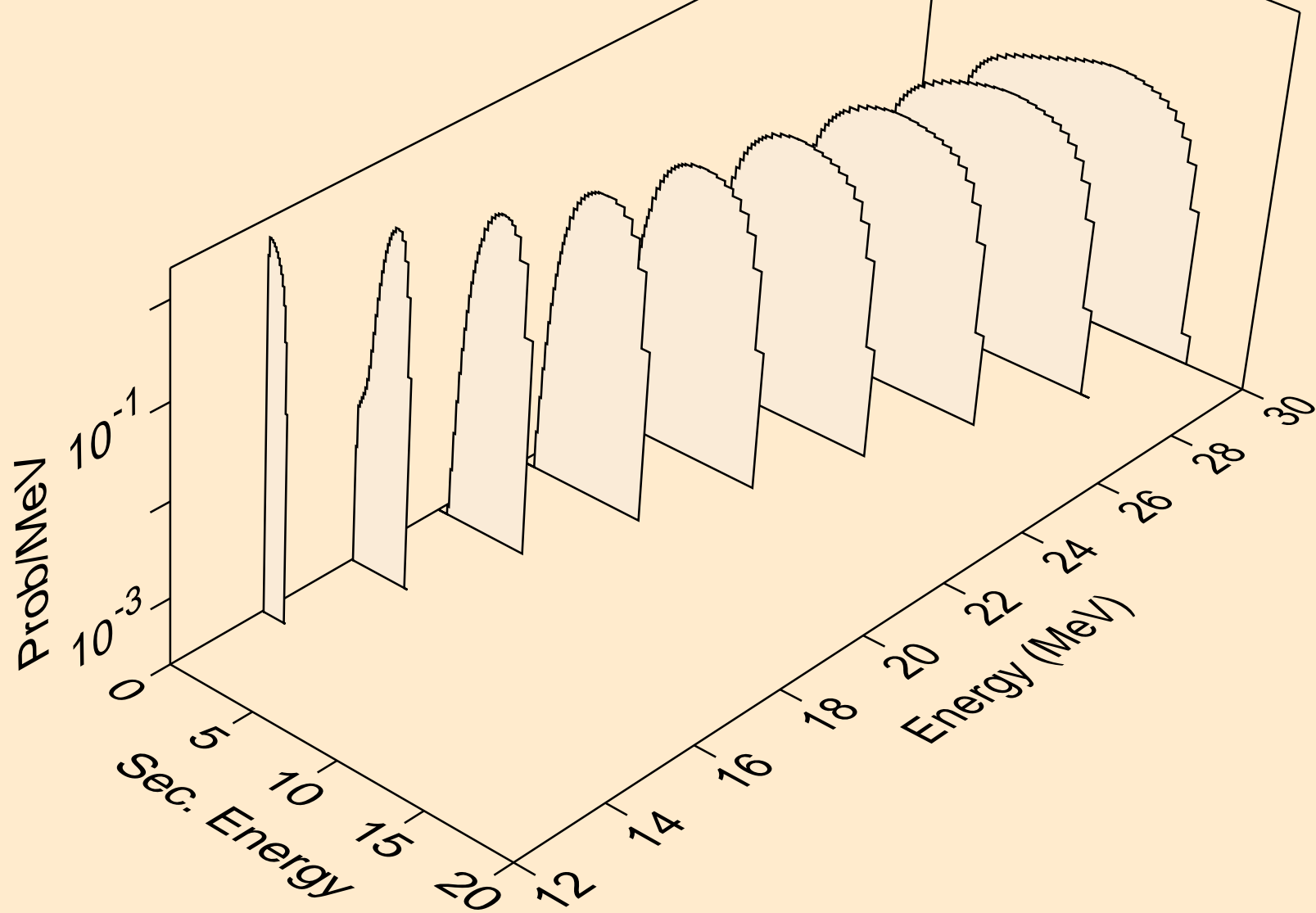
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Proton emission for (p,x)



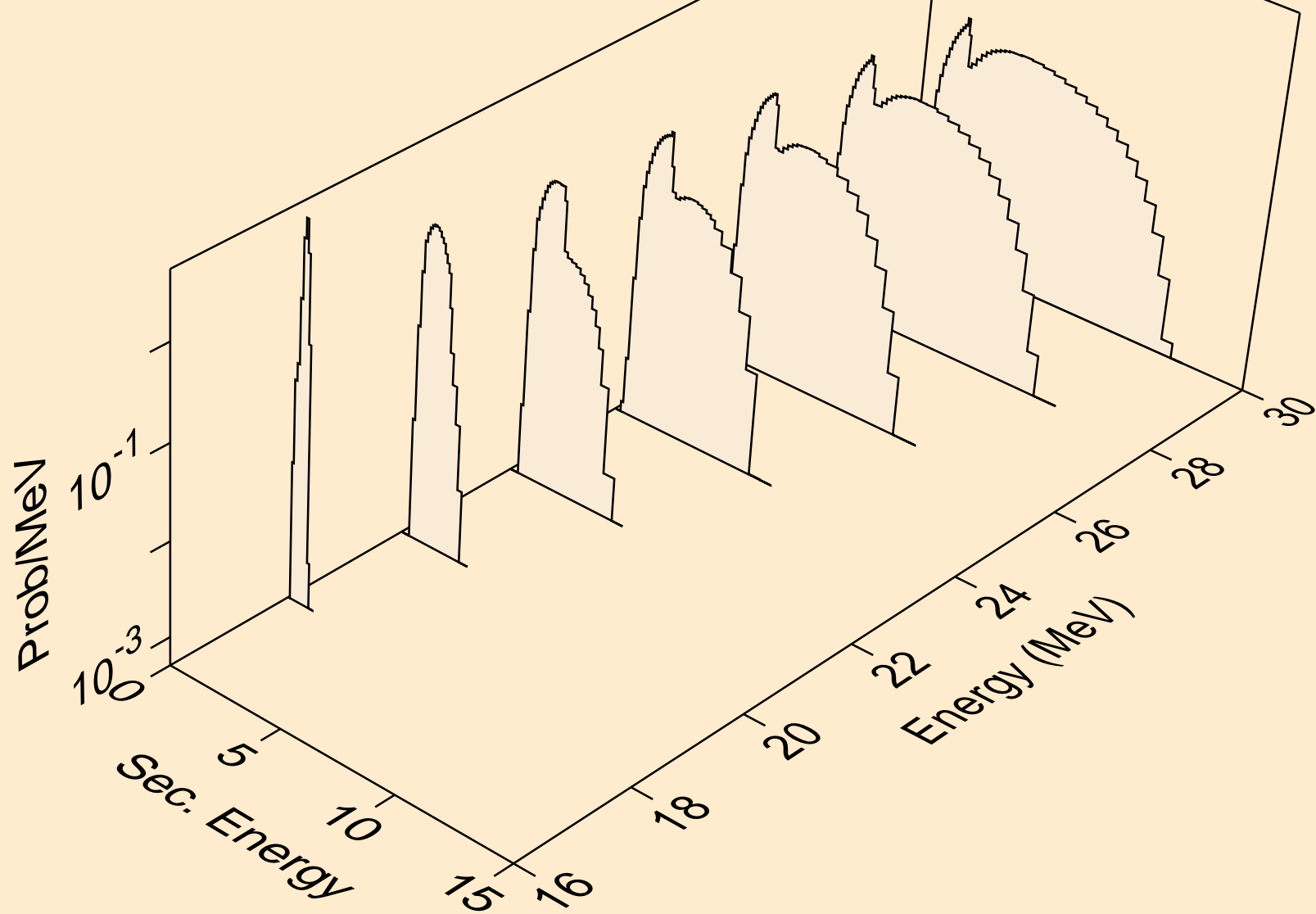
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



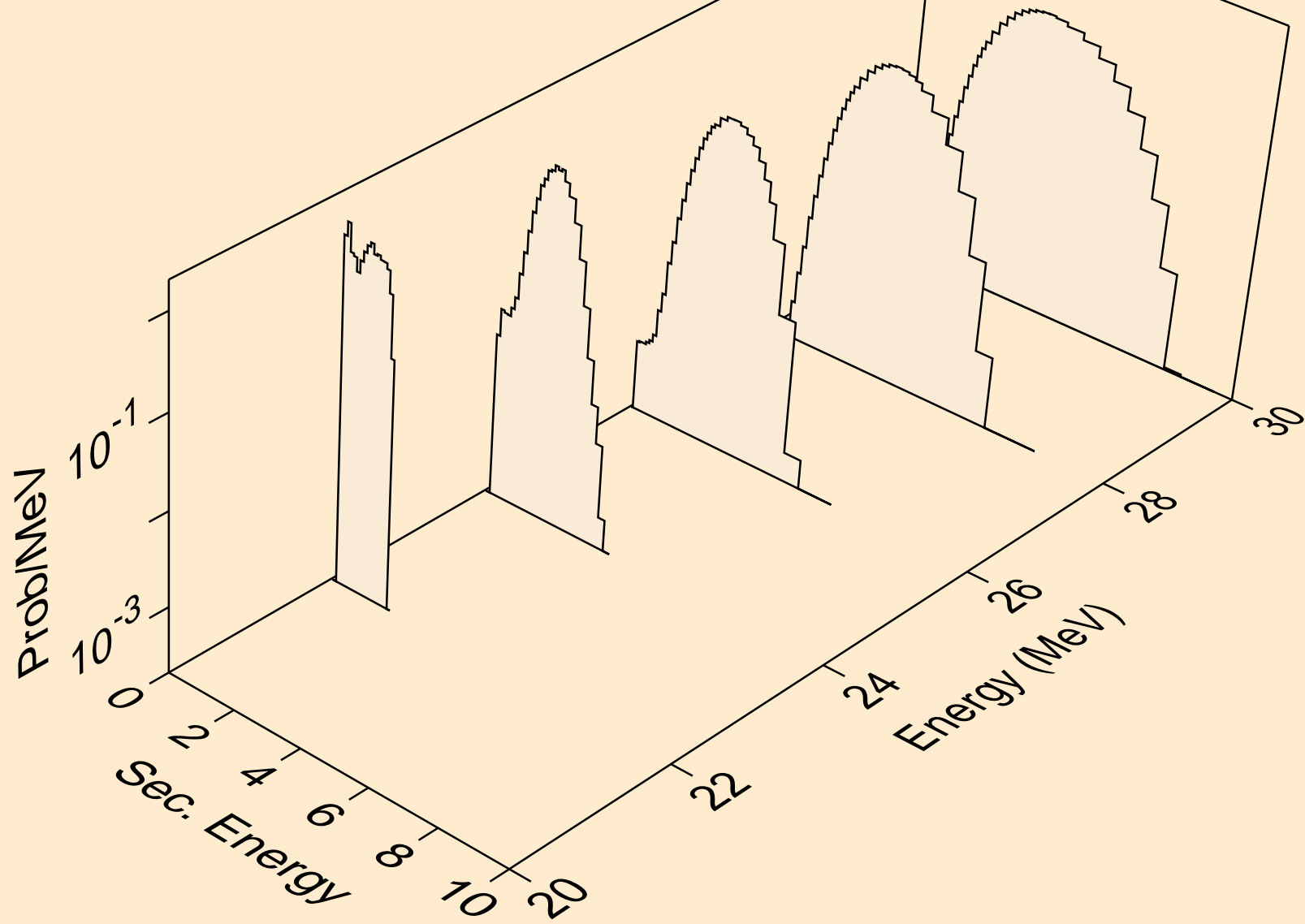
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



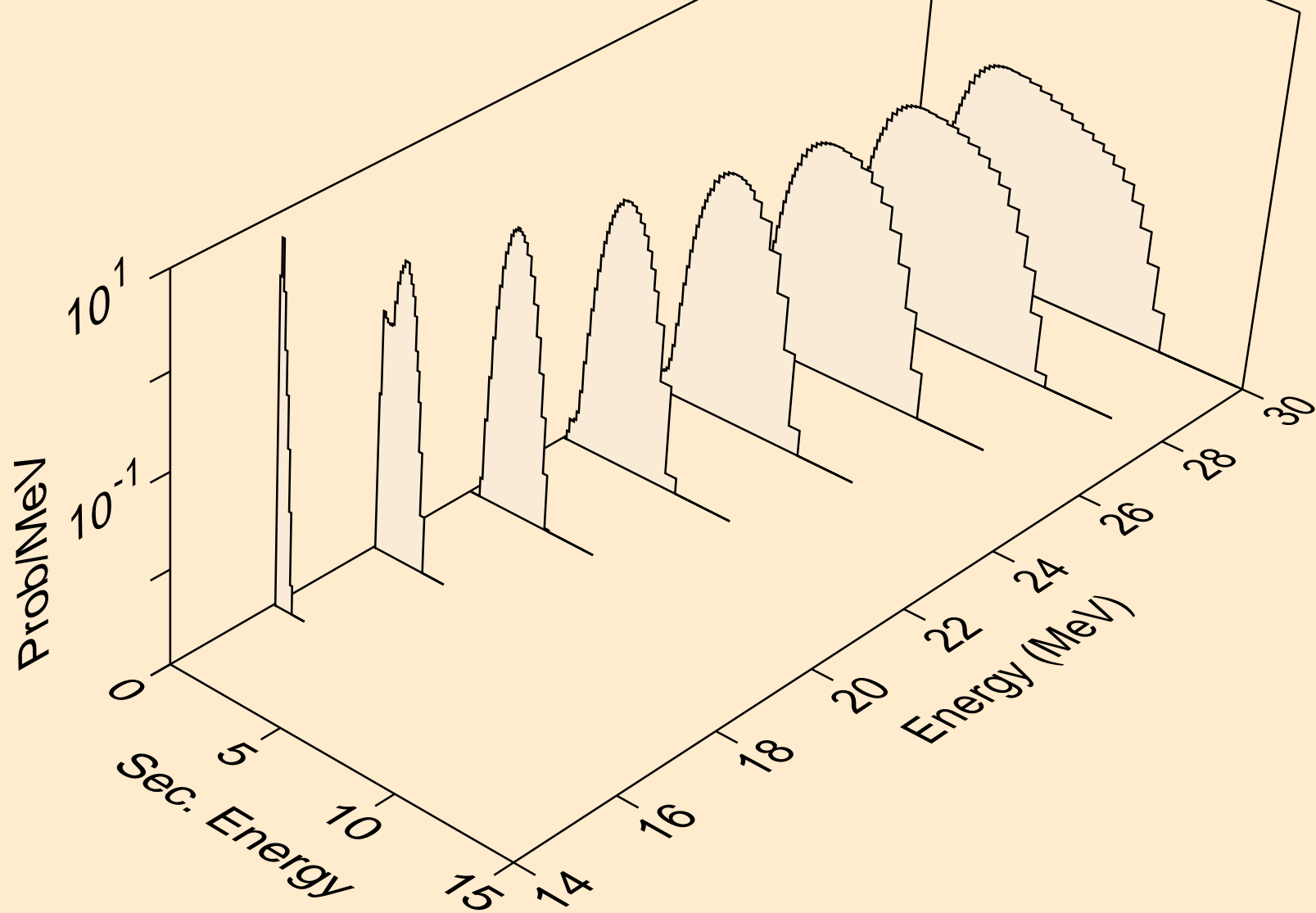
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Proton emission for (p,3np)



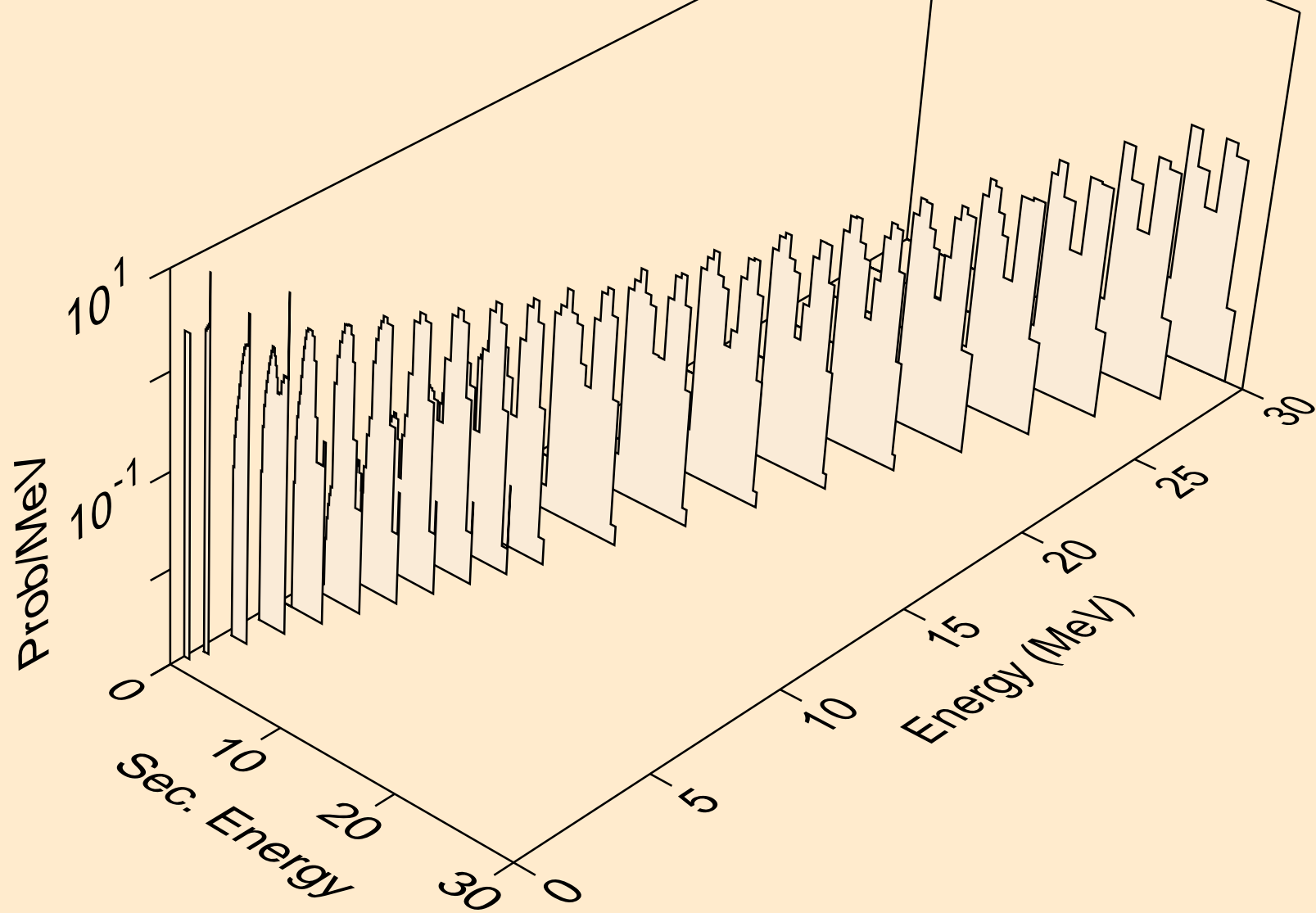
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

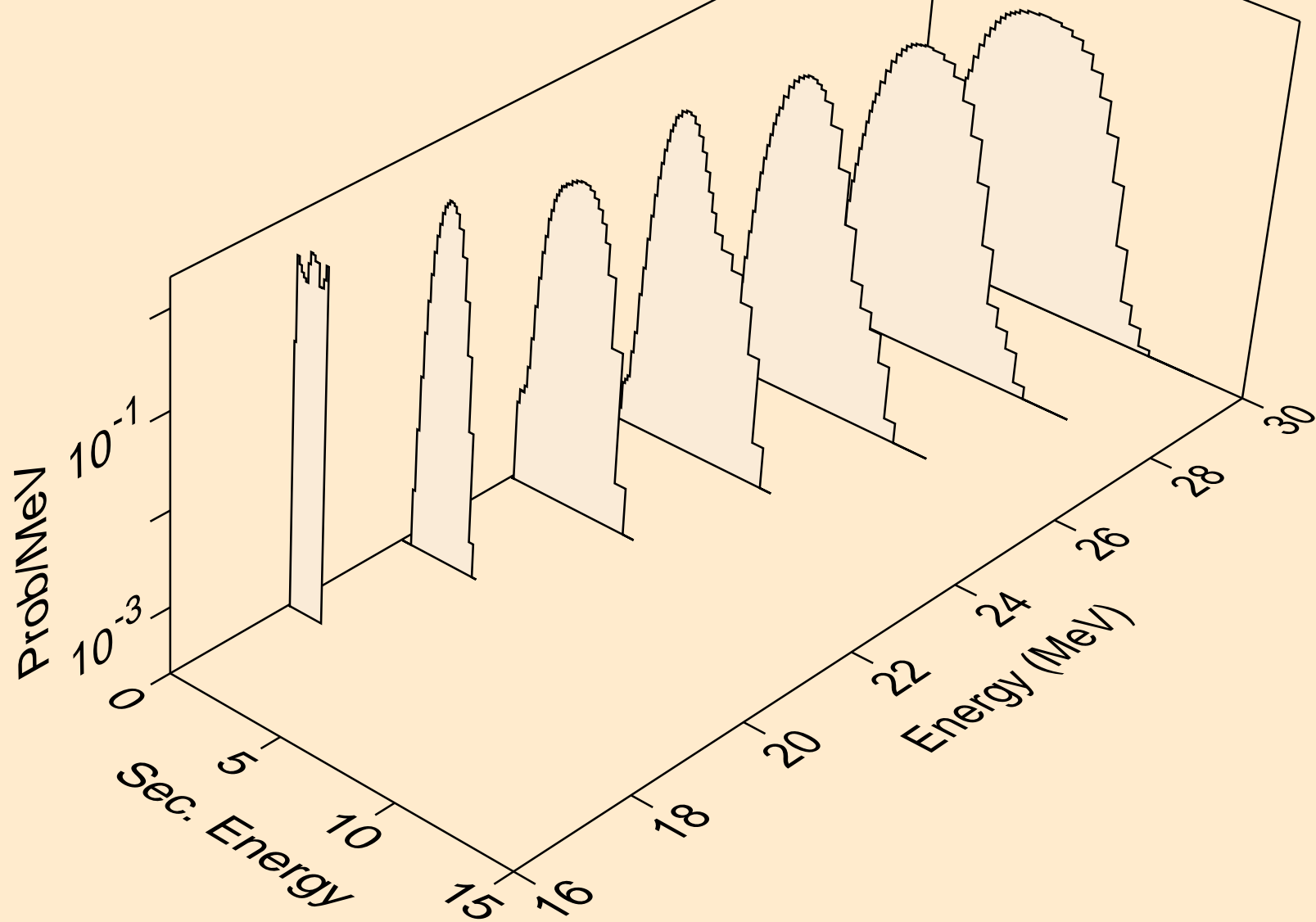


S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

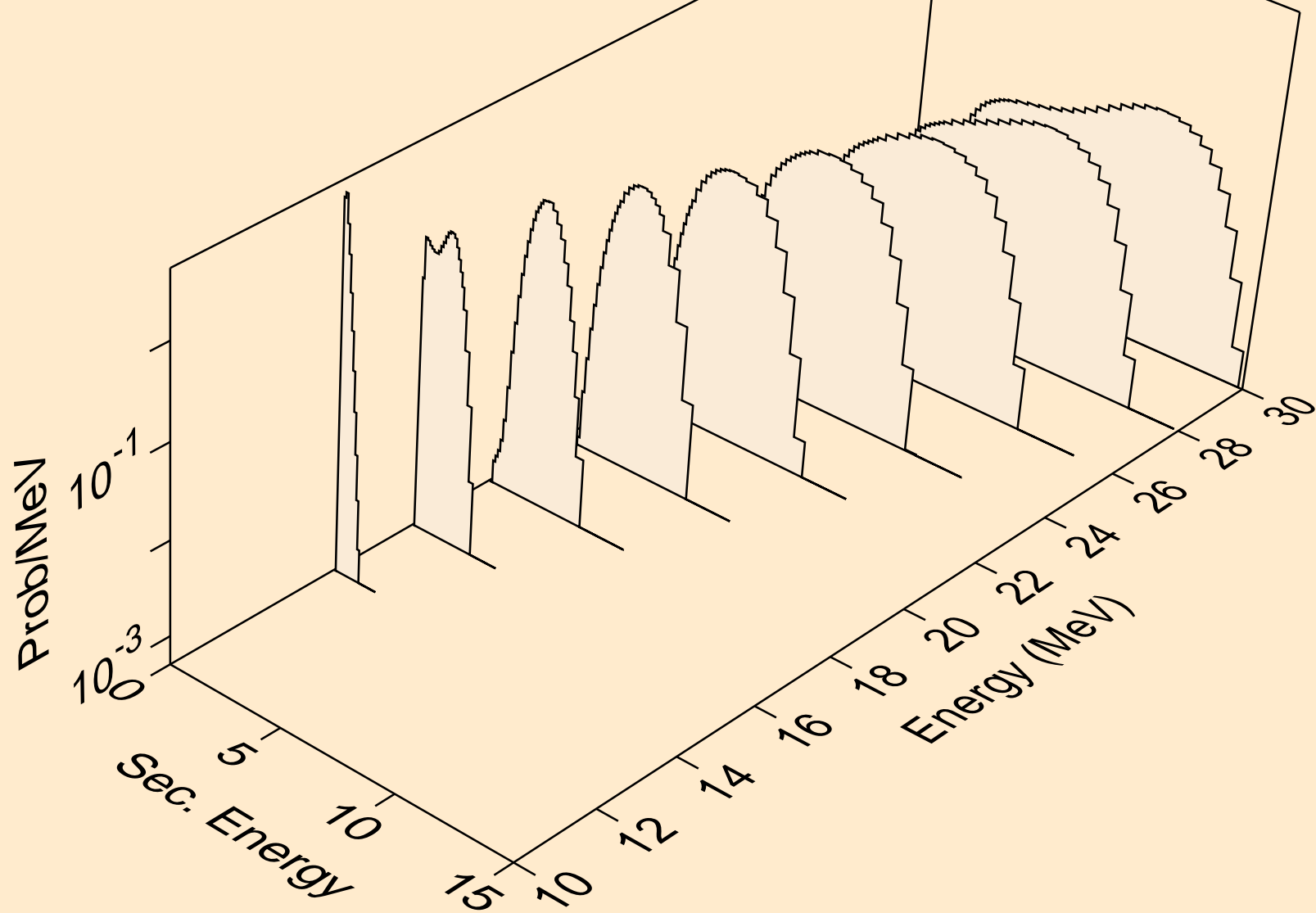




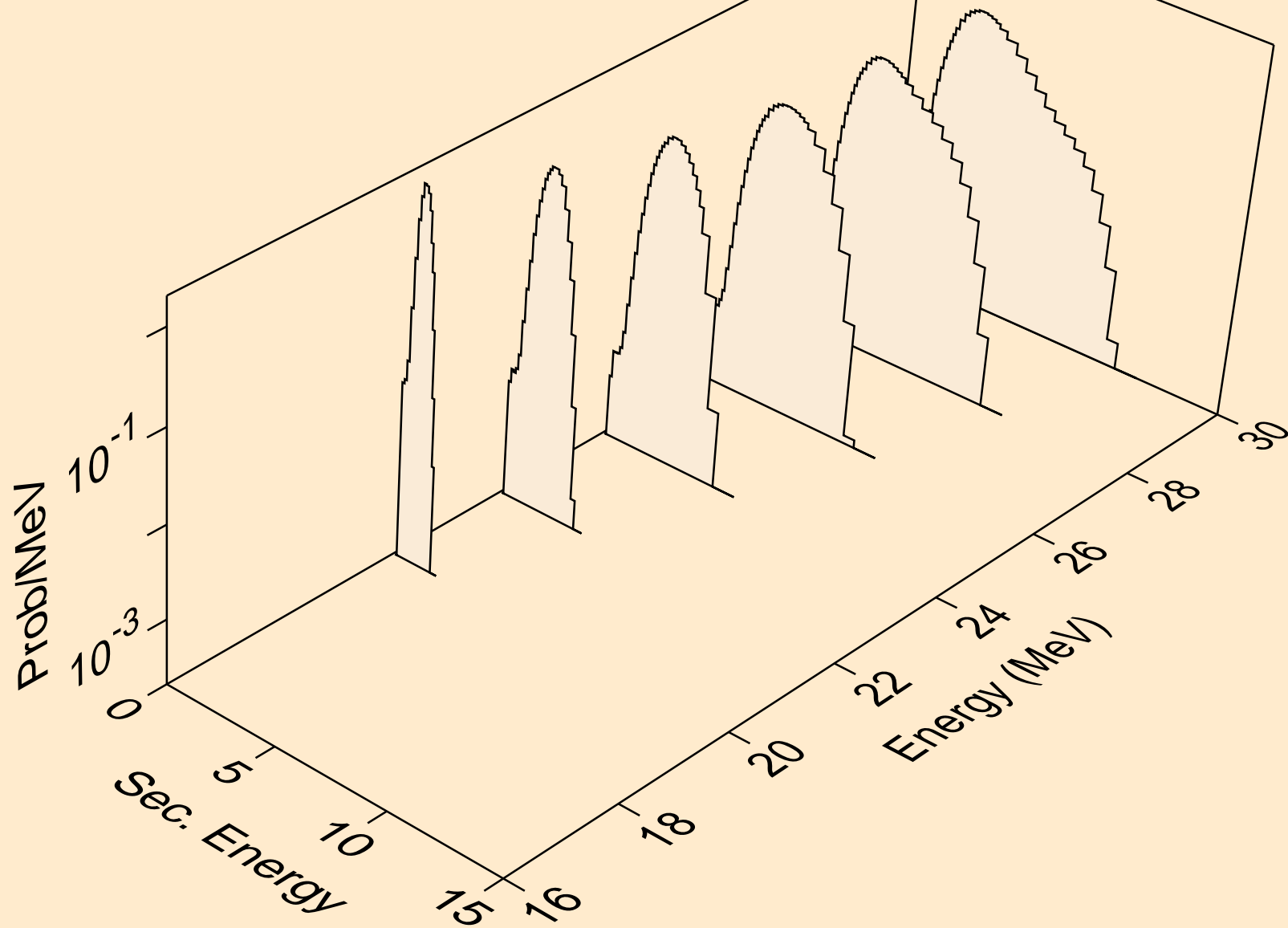
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Proton emission for (p,2p)



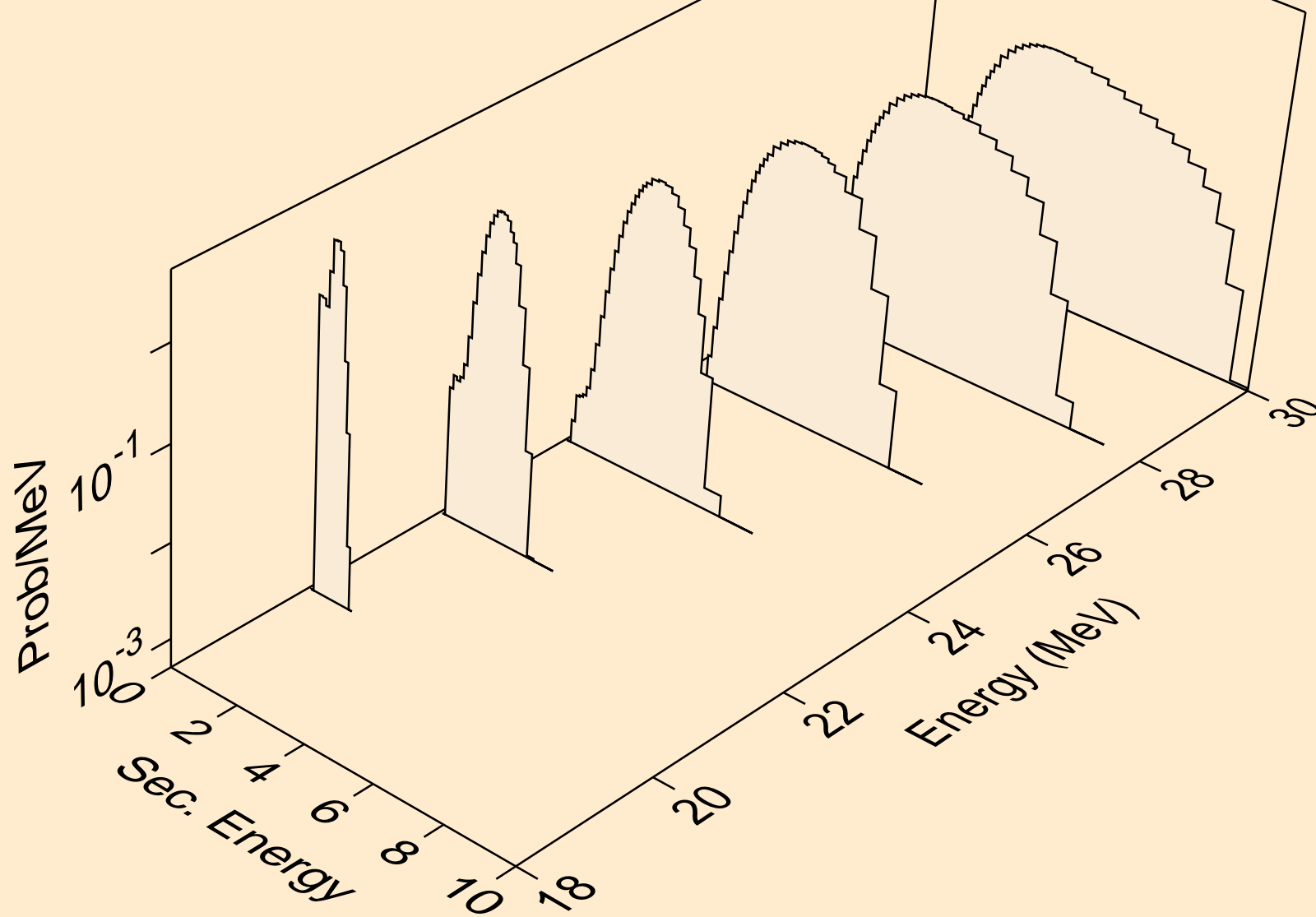
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Proton emission for (p,pa)



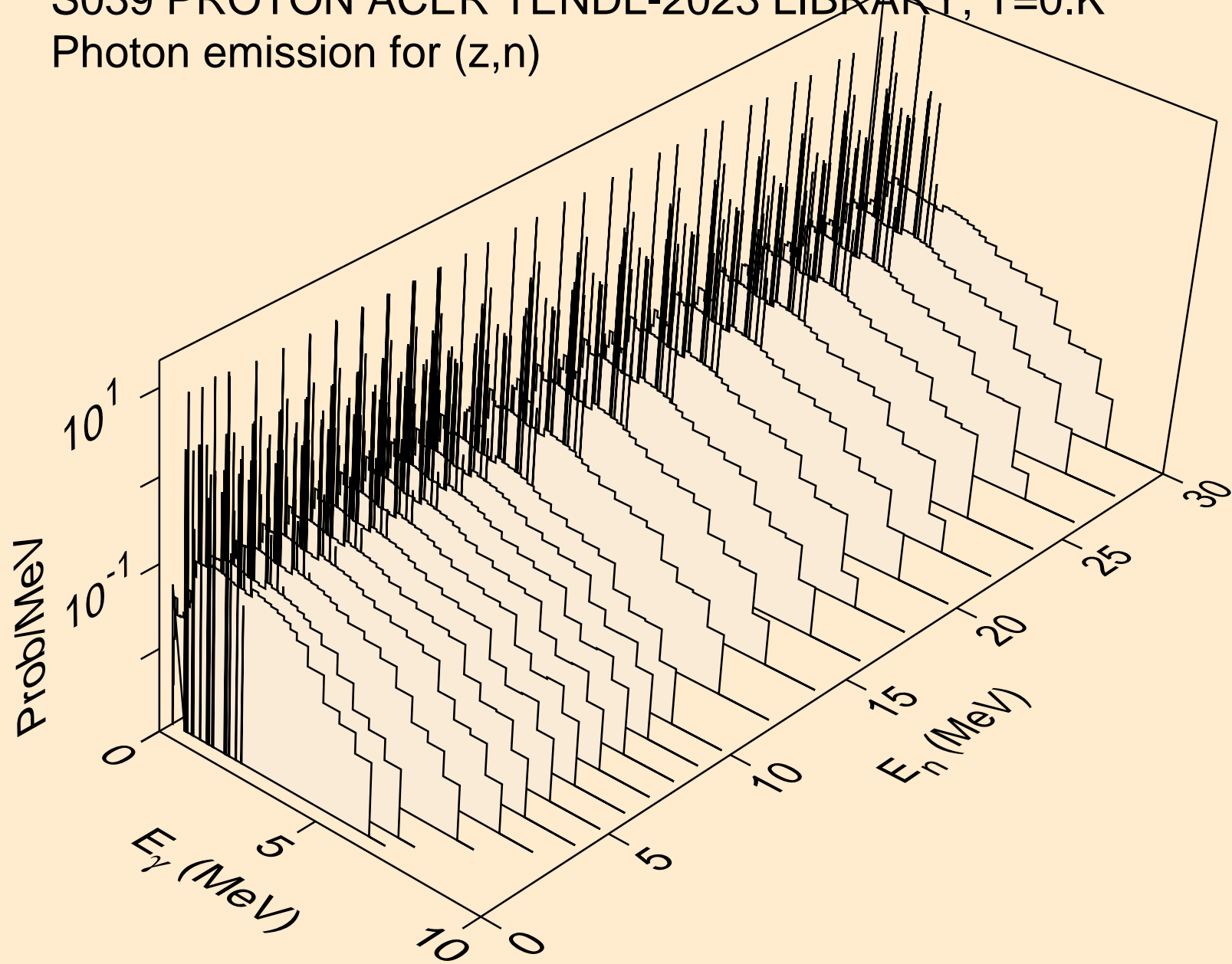
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Proton emission for (p,pd)



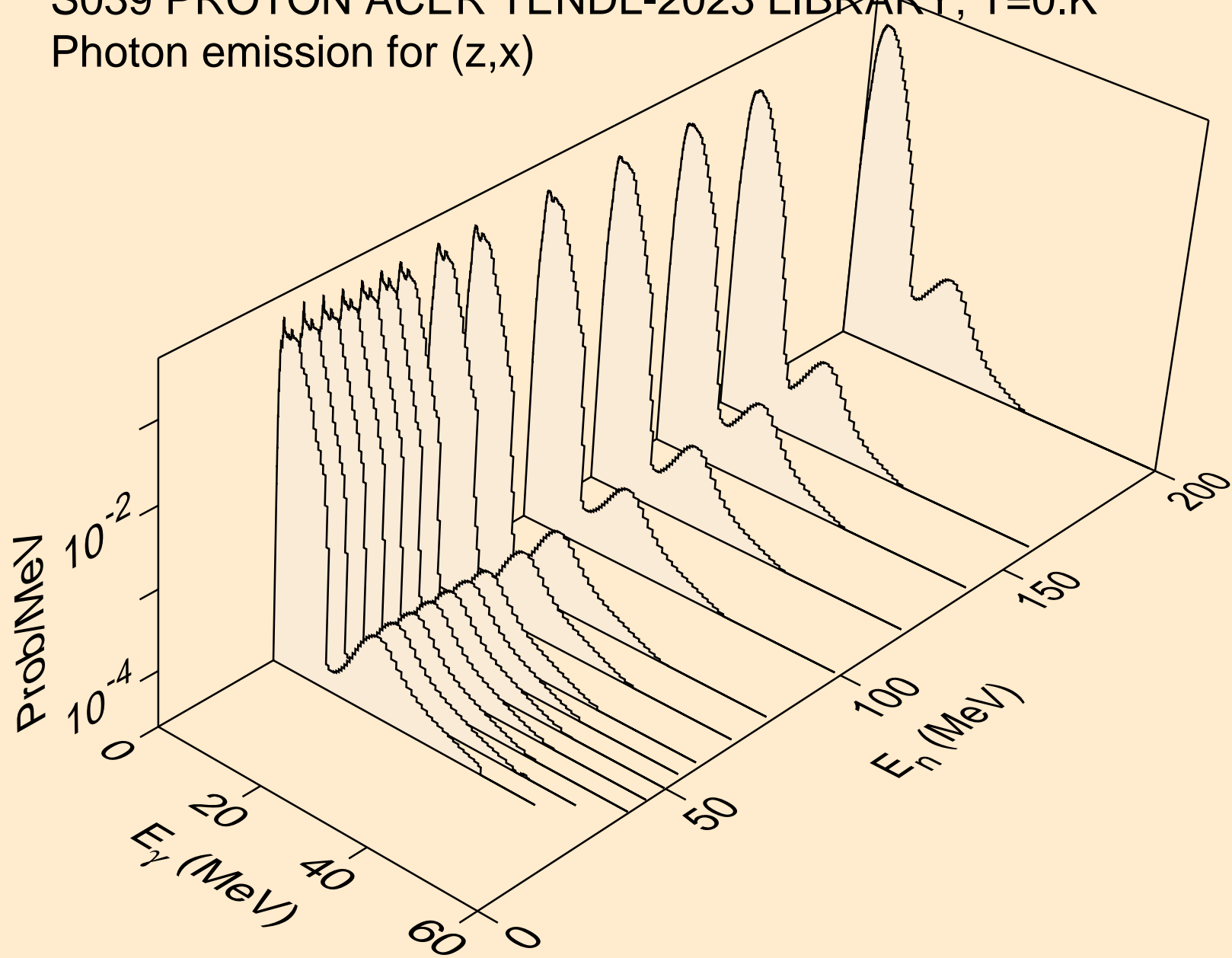
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Proton emission for (p,pt)



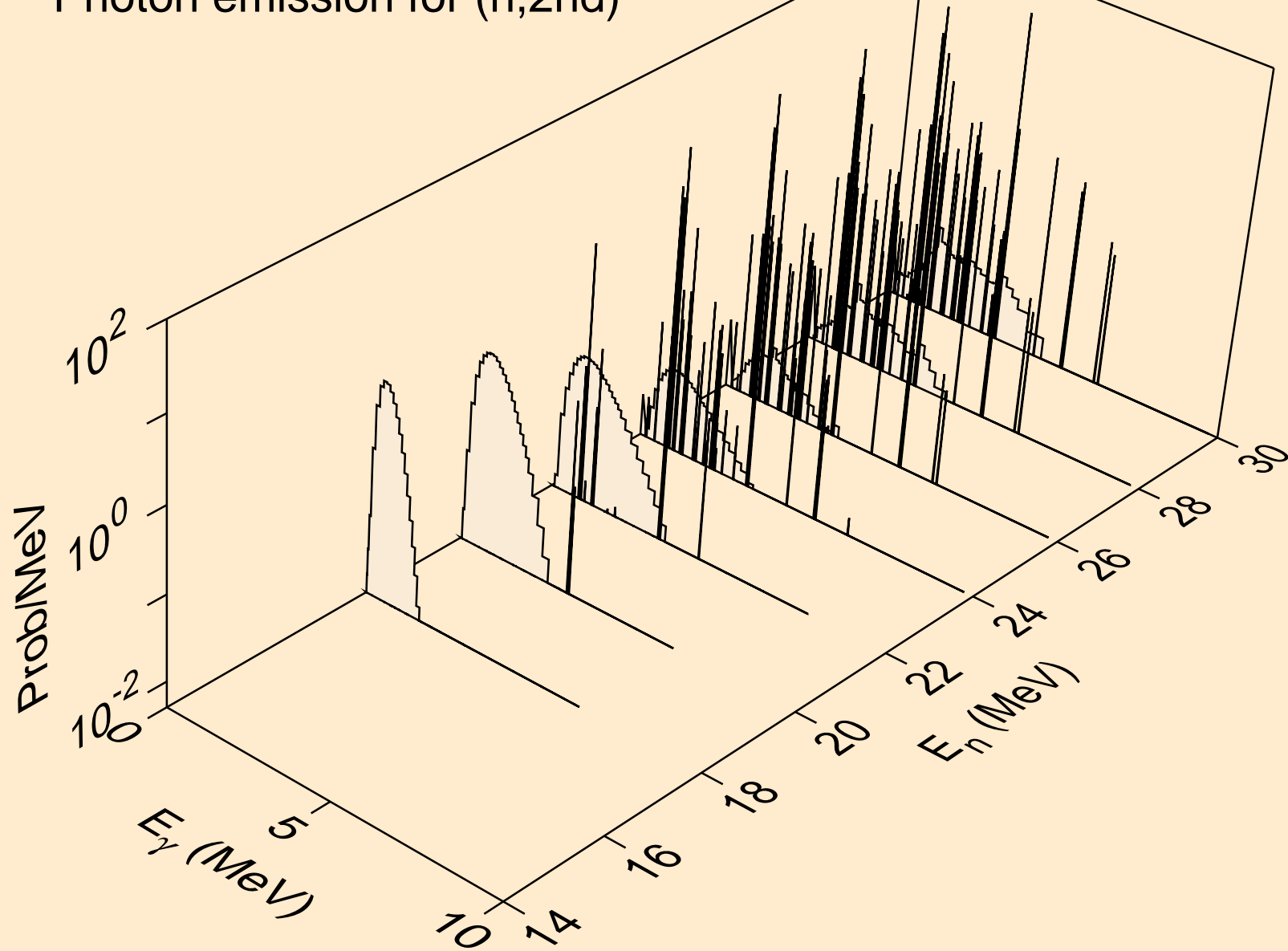
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Photon emission for (z,n)



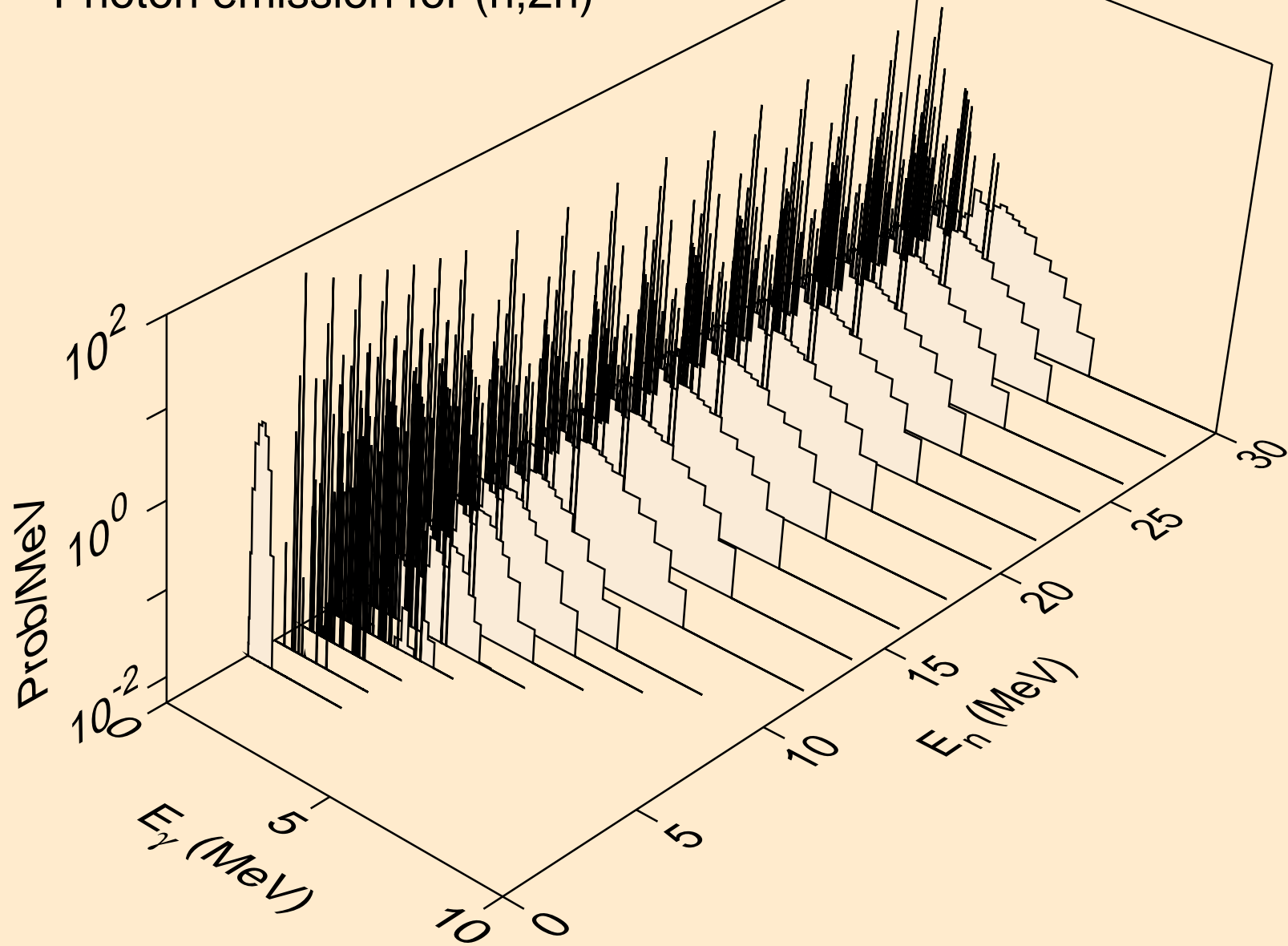
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

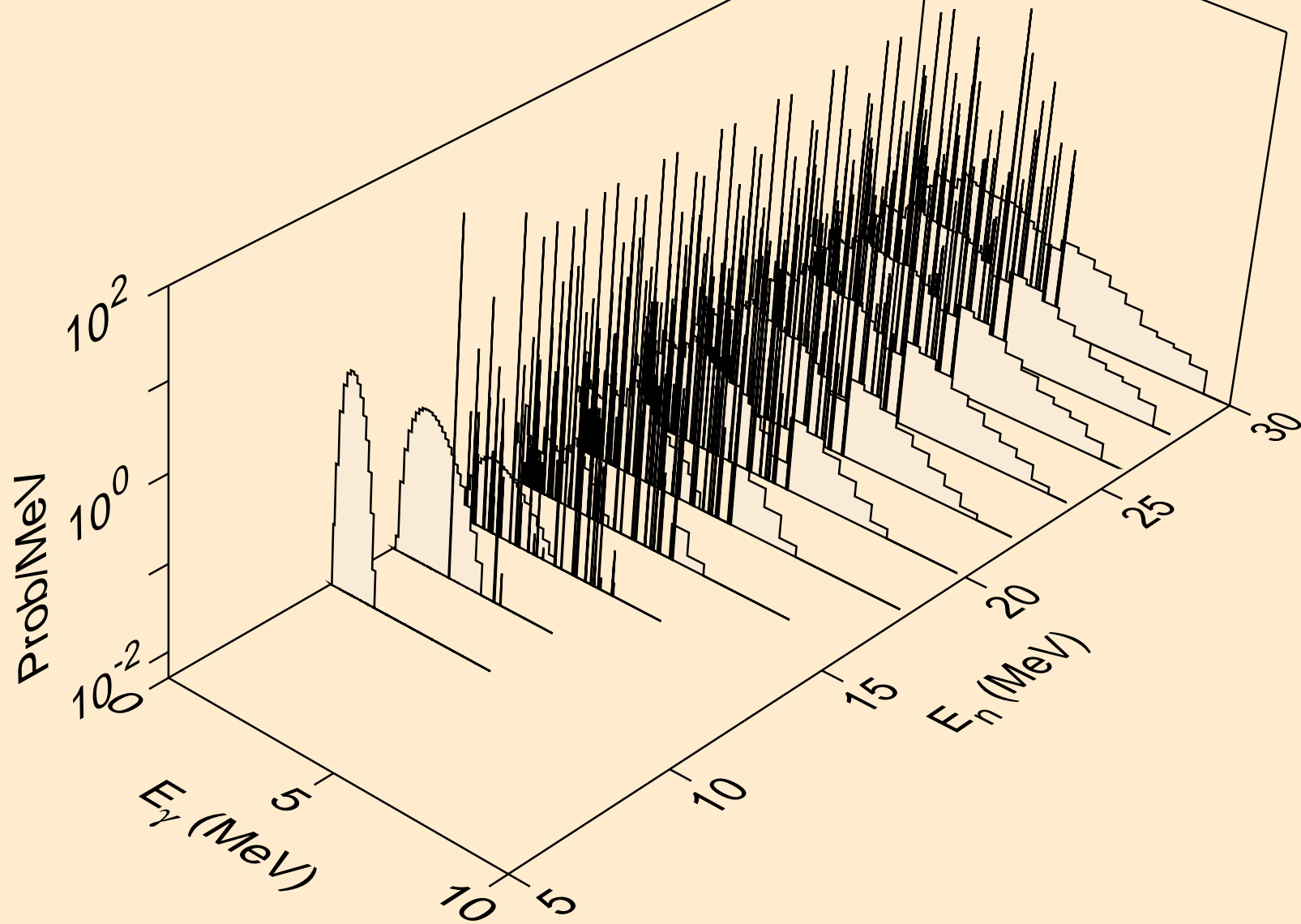


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Photon emission for (n,2n)

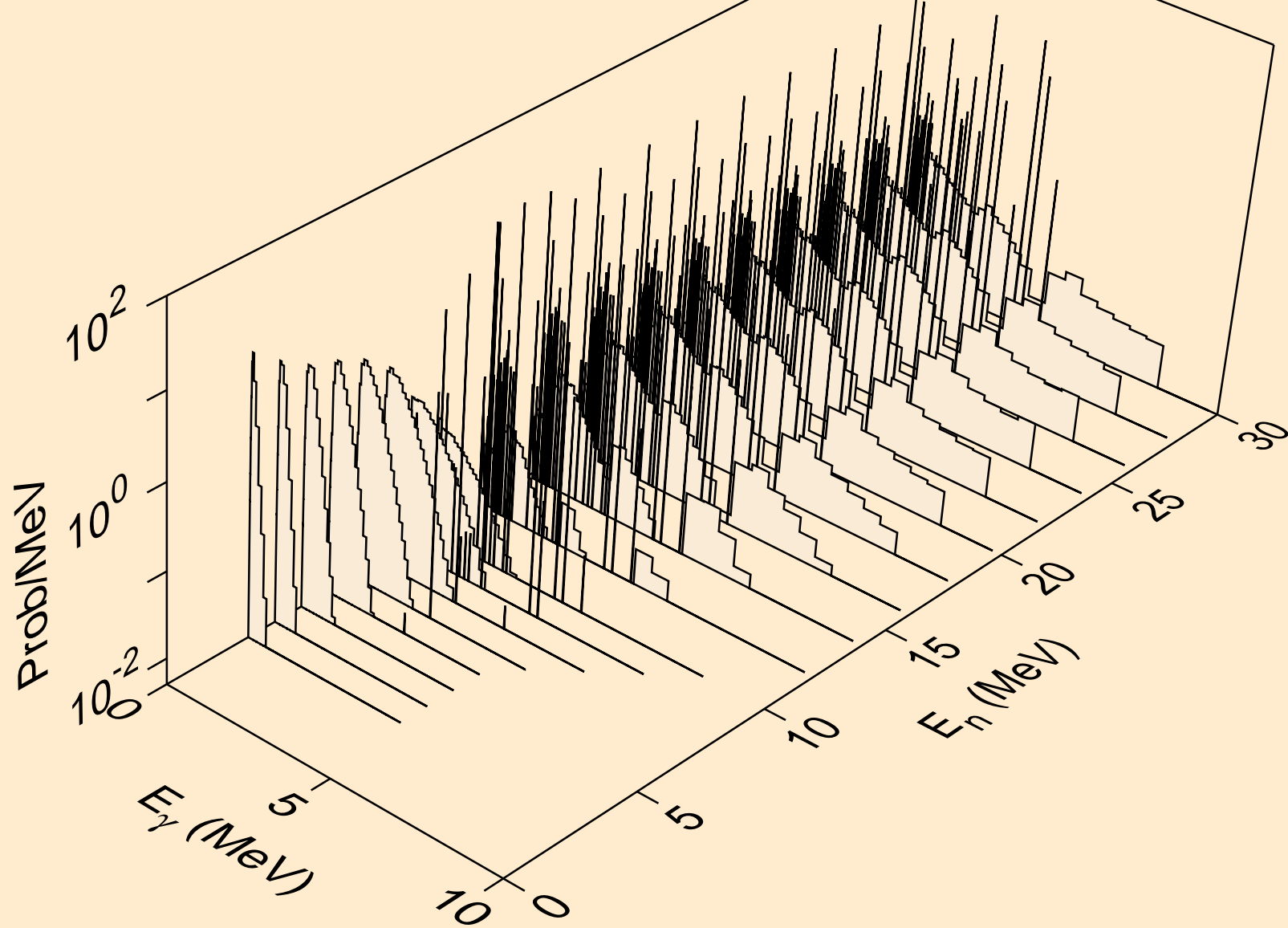




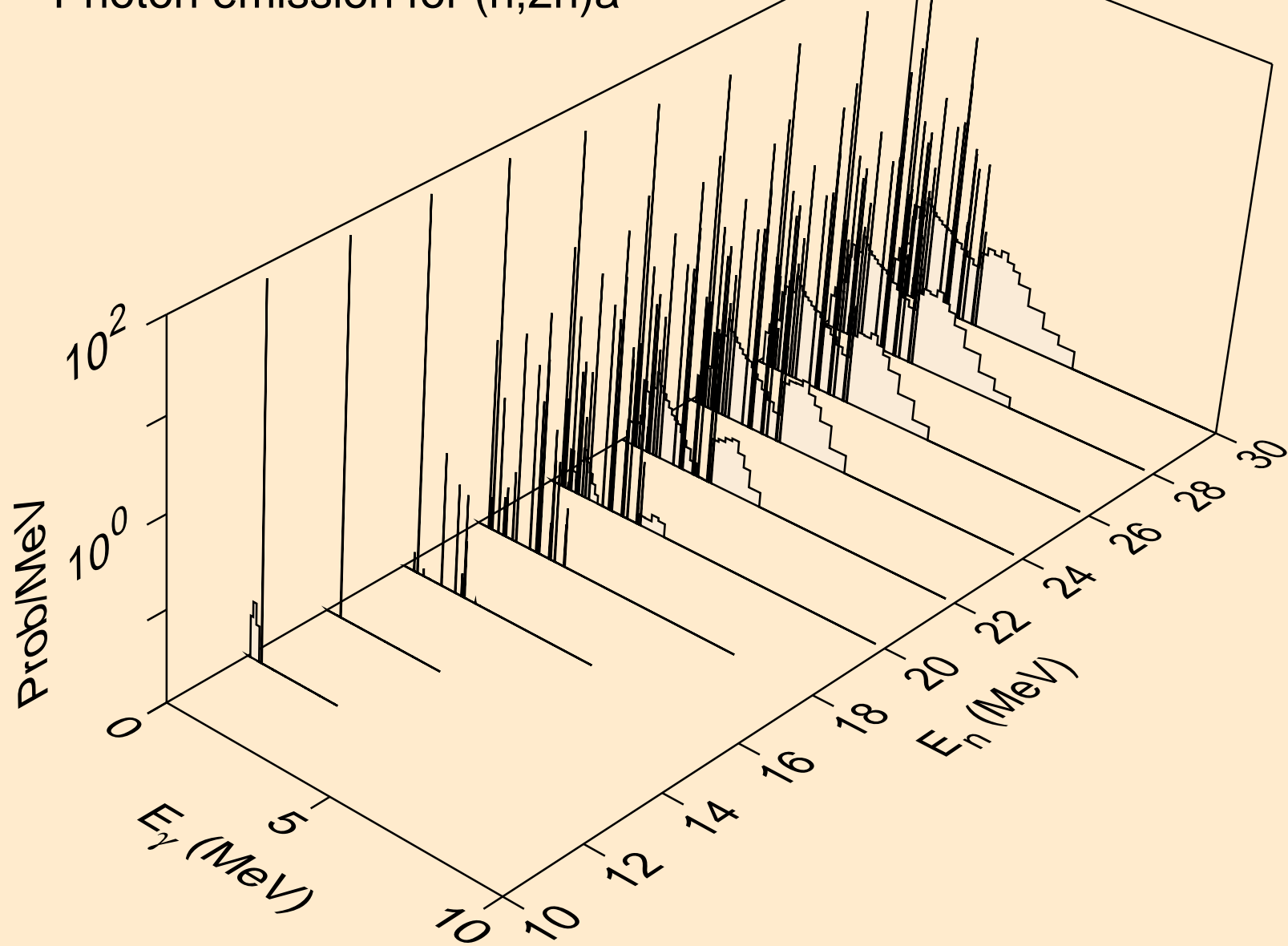
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Photon emission for (n,3n)



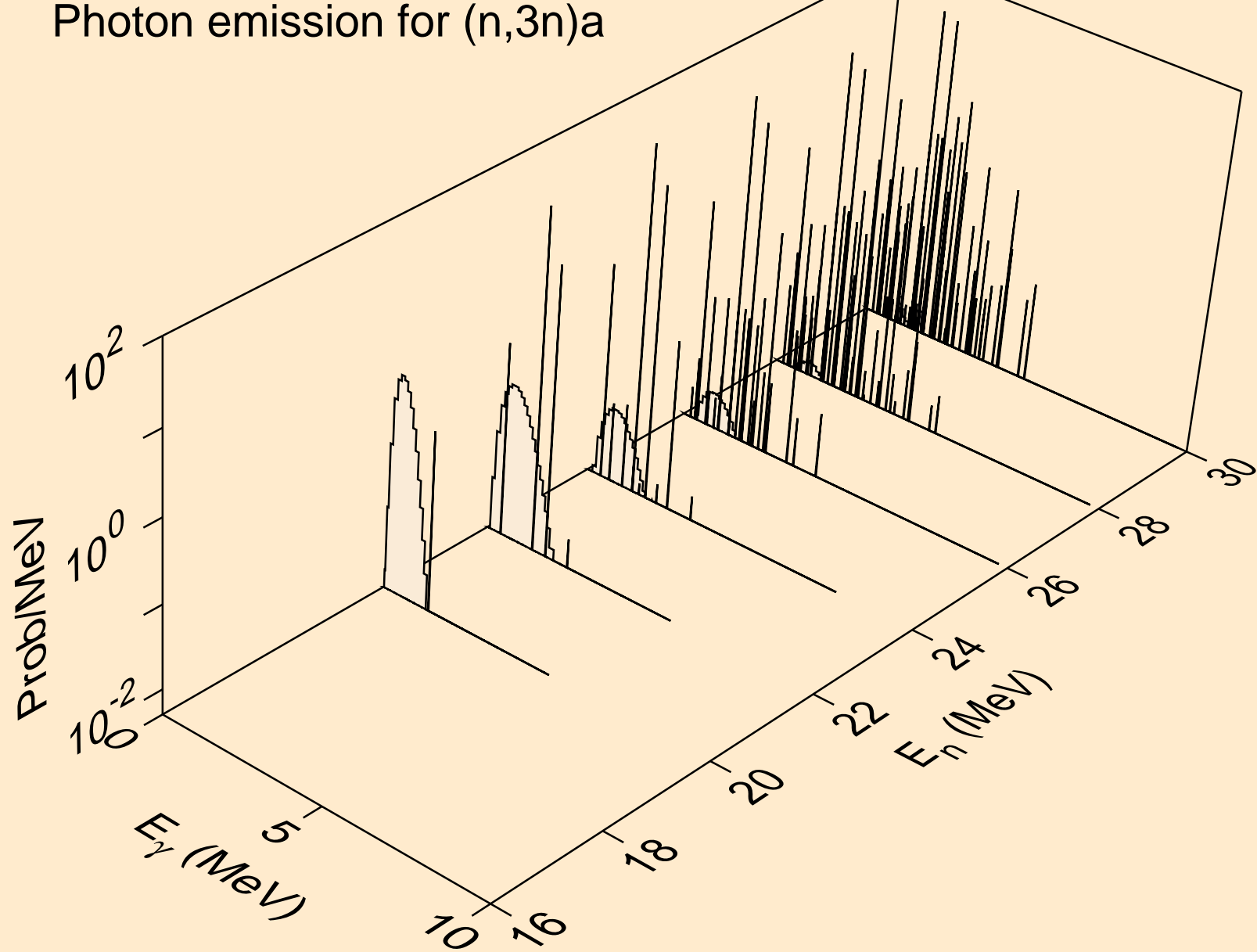
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Photon emission for (n,n\*)a



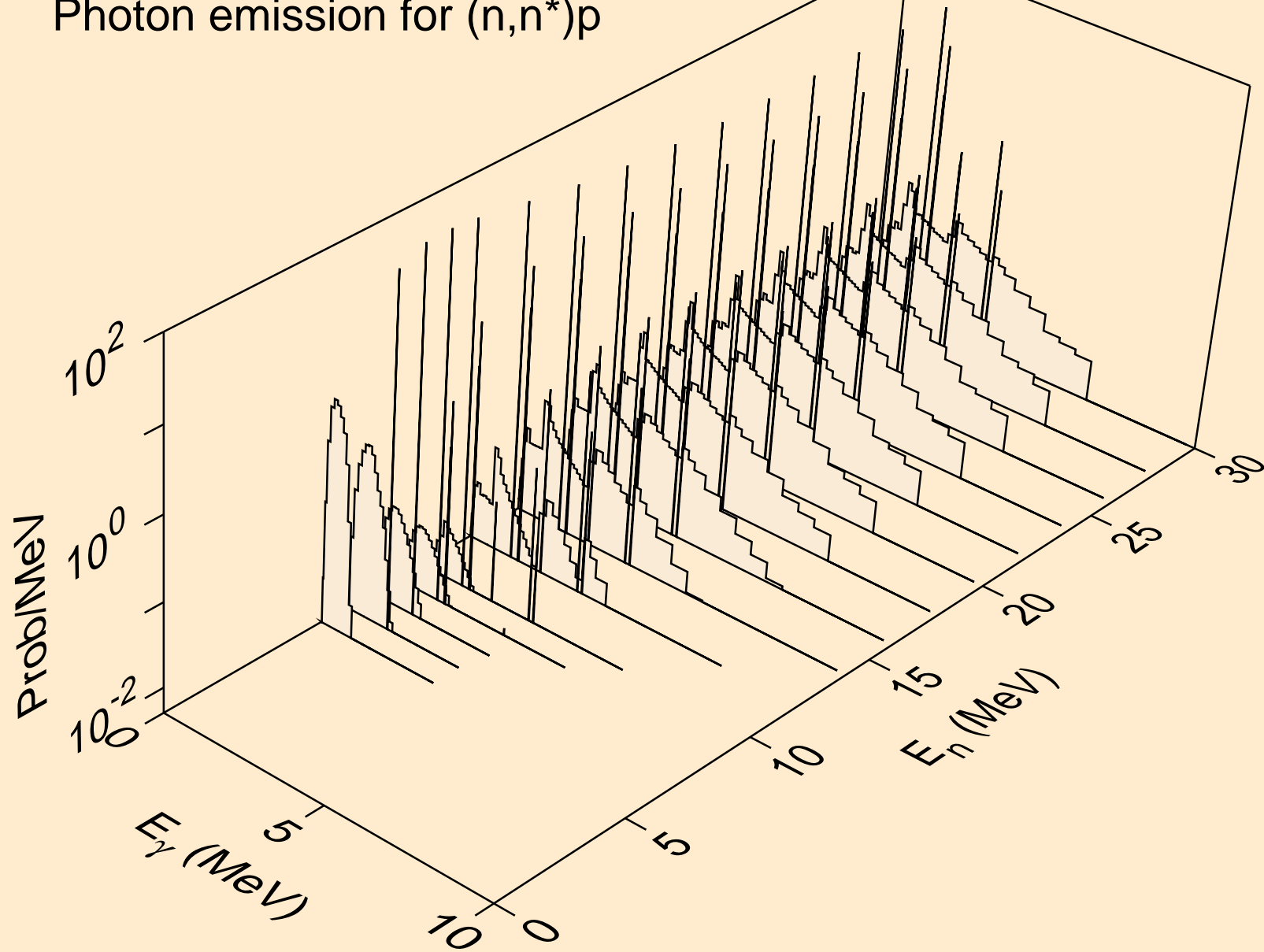
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Photon emission for (n,2n)a



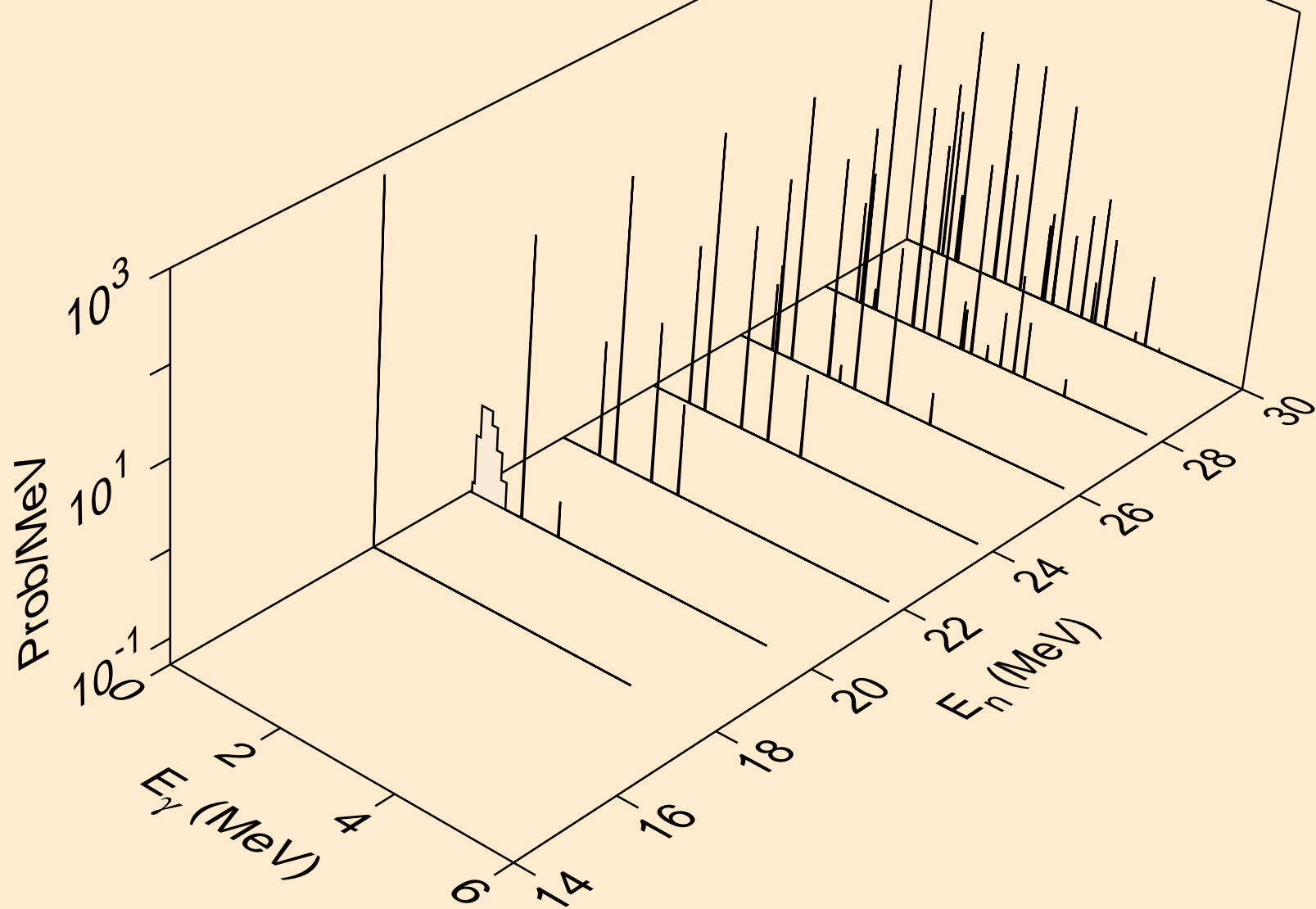
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Photon emission for (n,3n)a



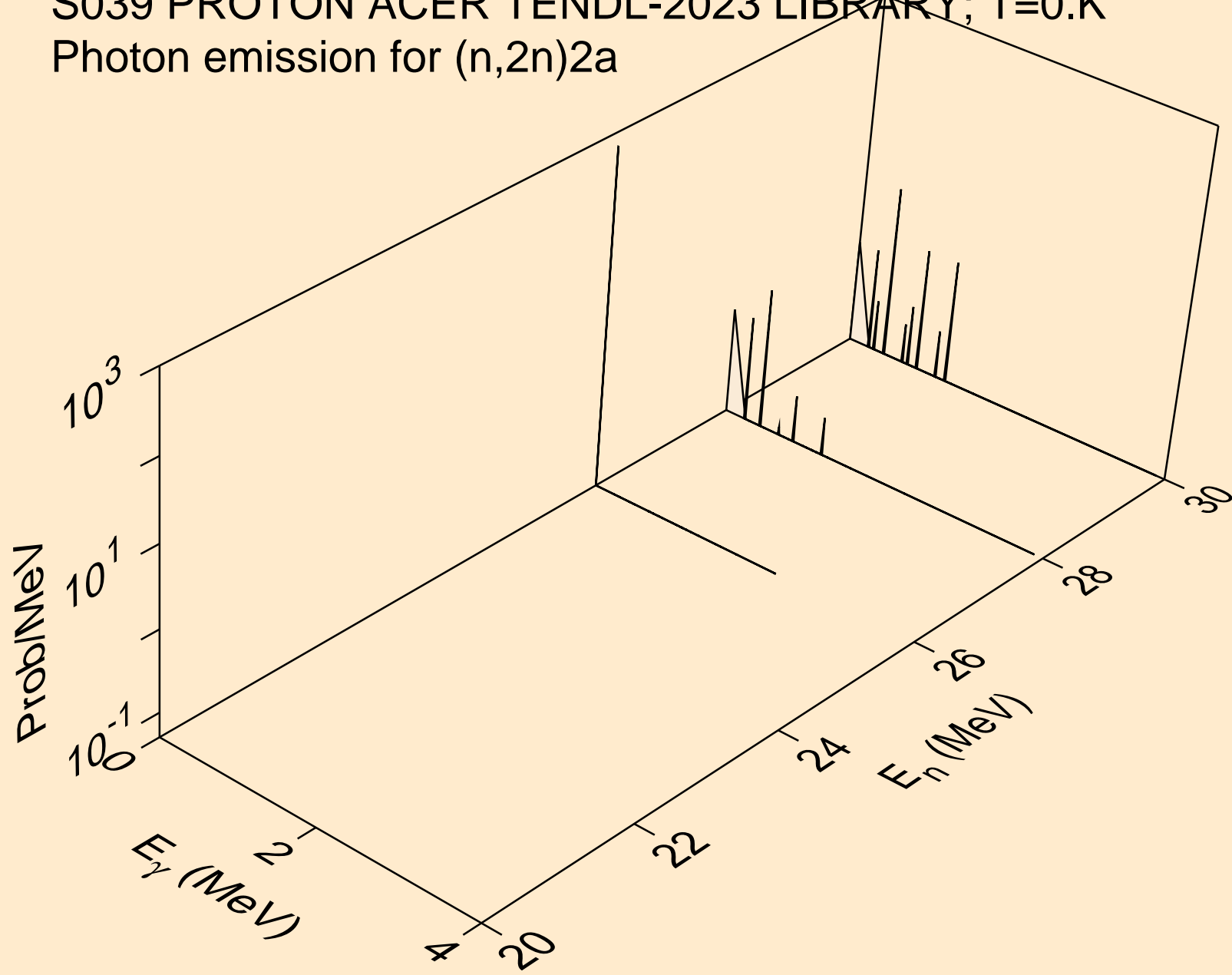
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Photon emission for (n,n\*)p



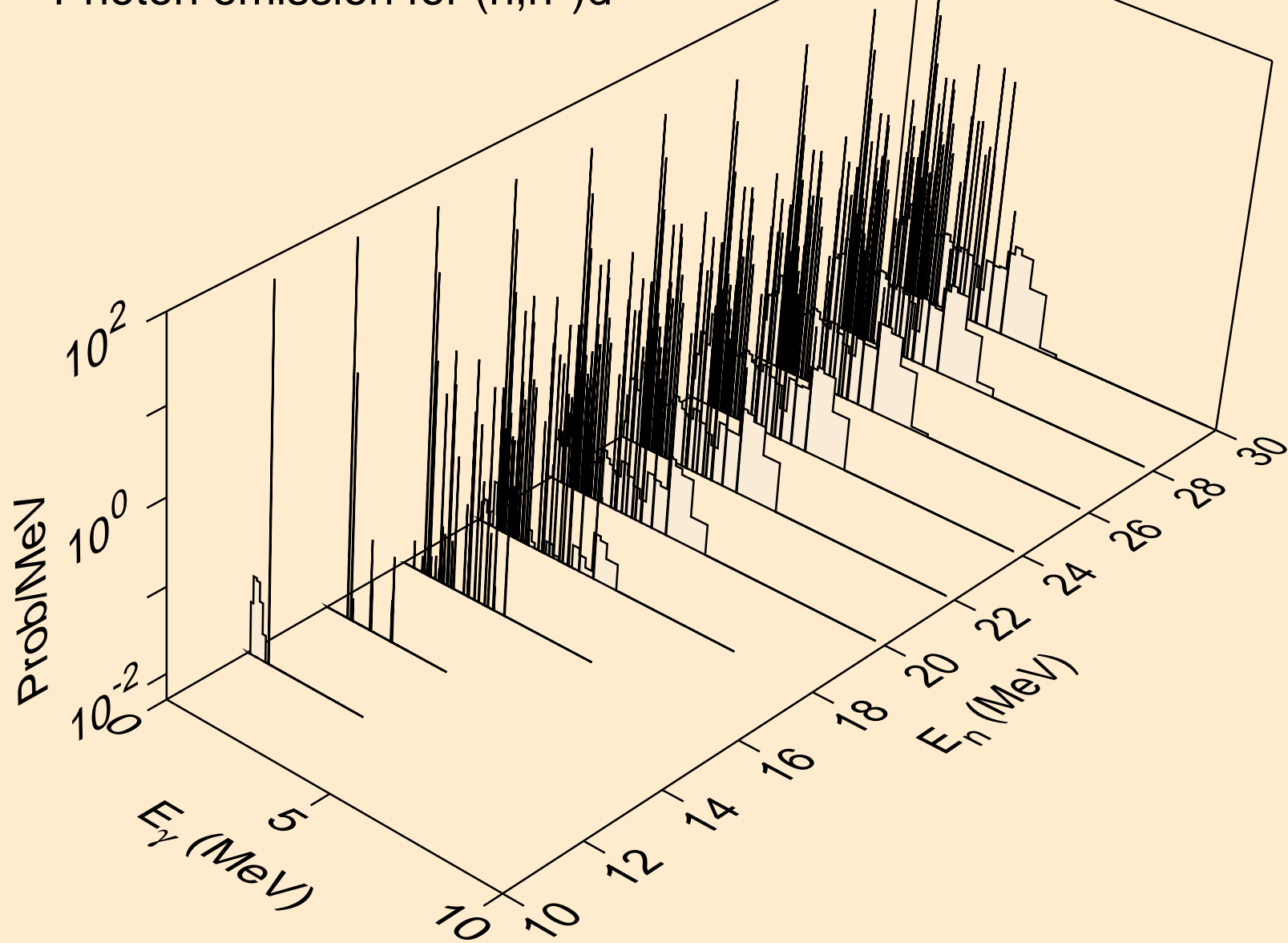
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a

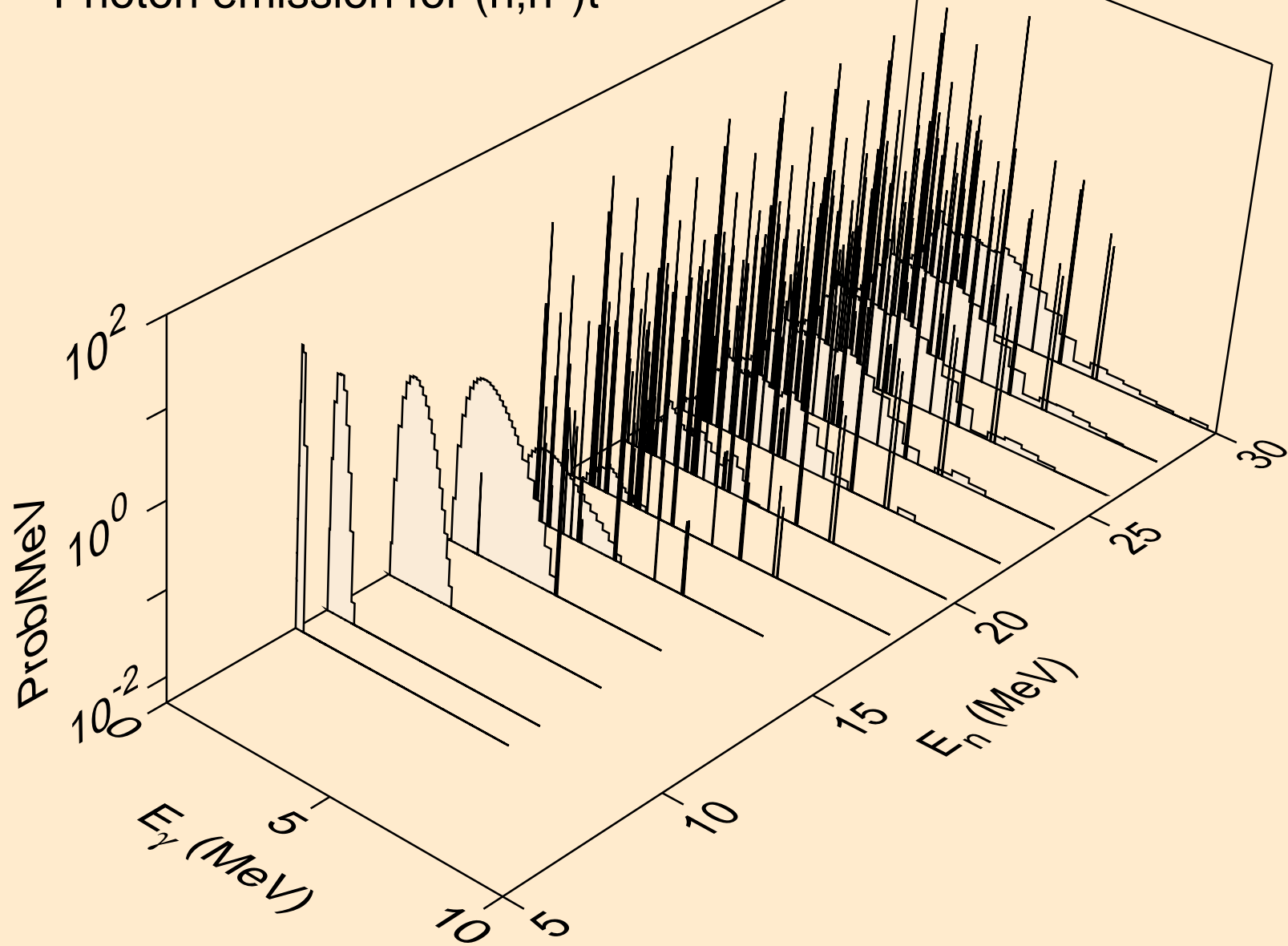


S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

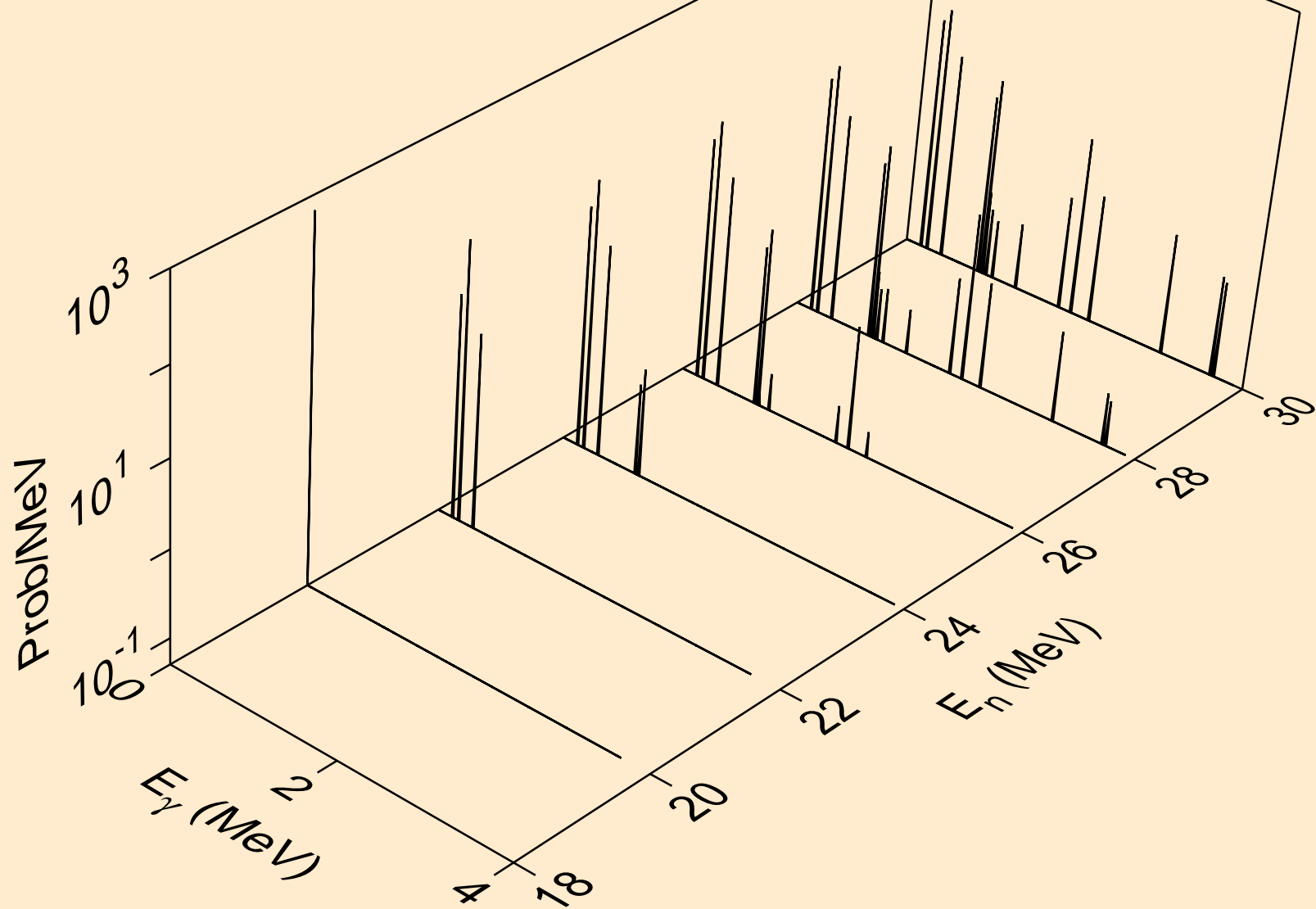




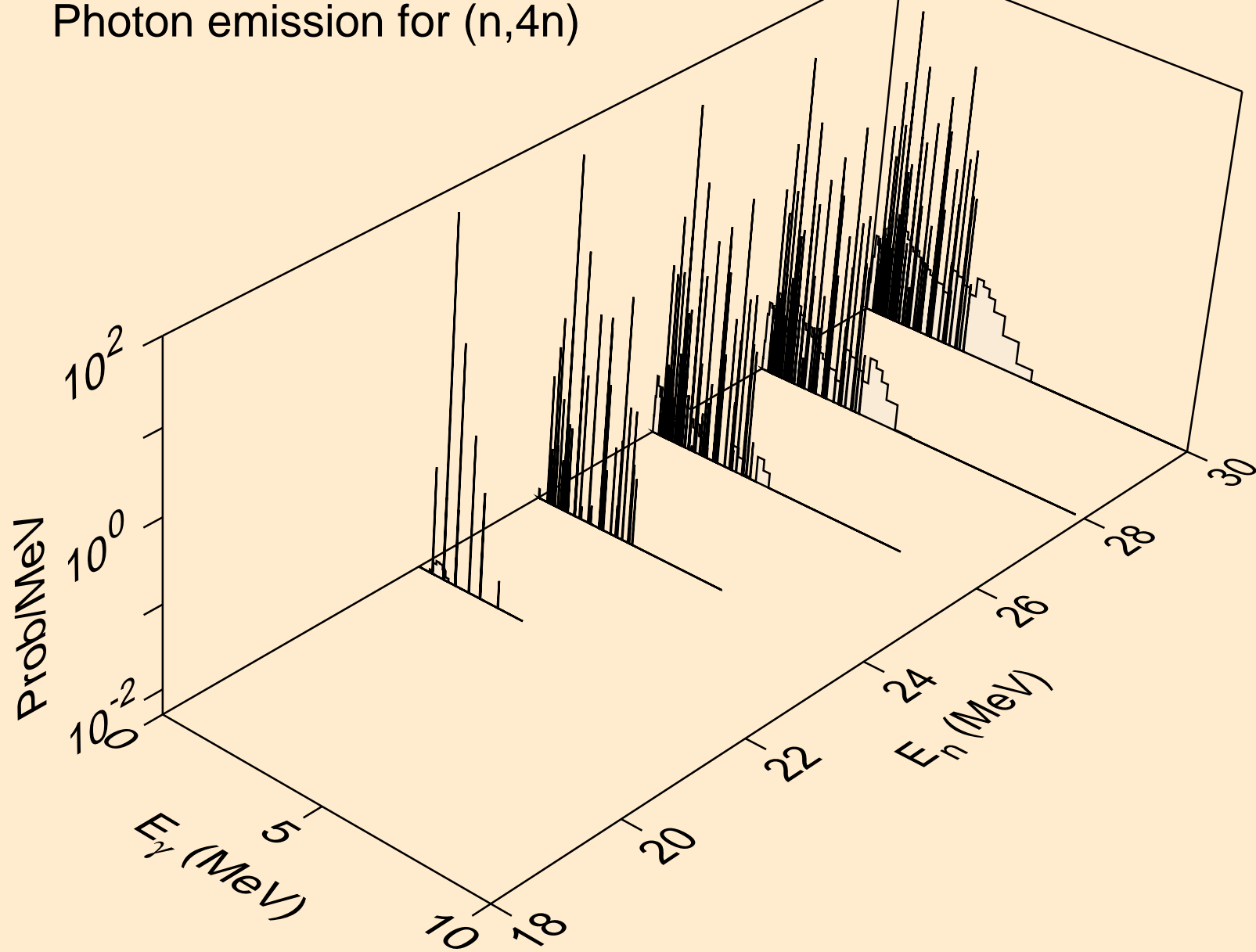
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Photon emission for (n,n\*)t



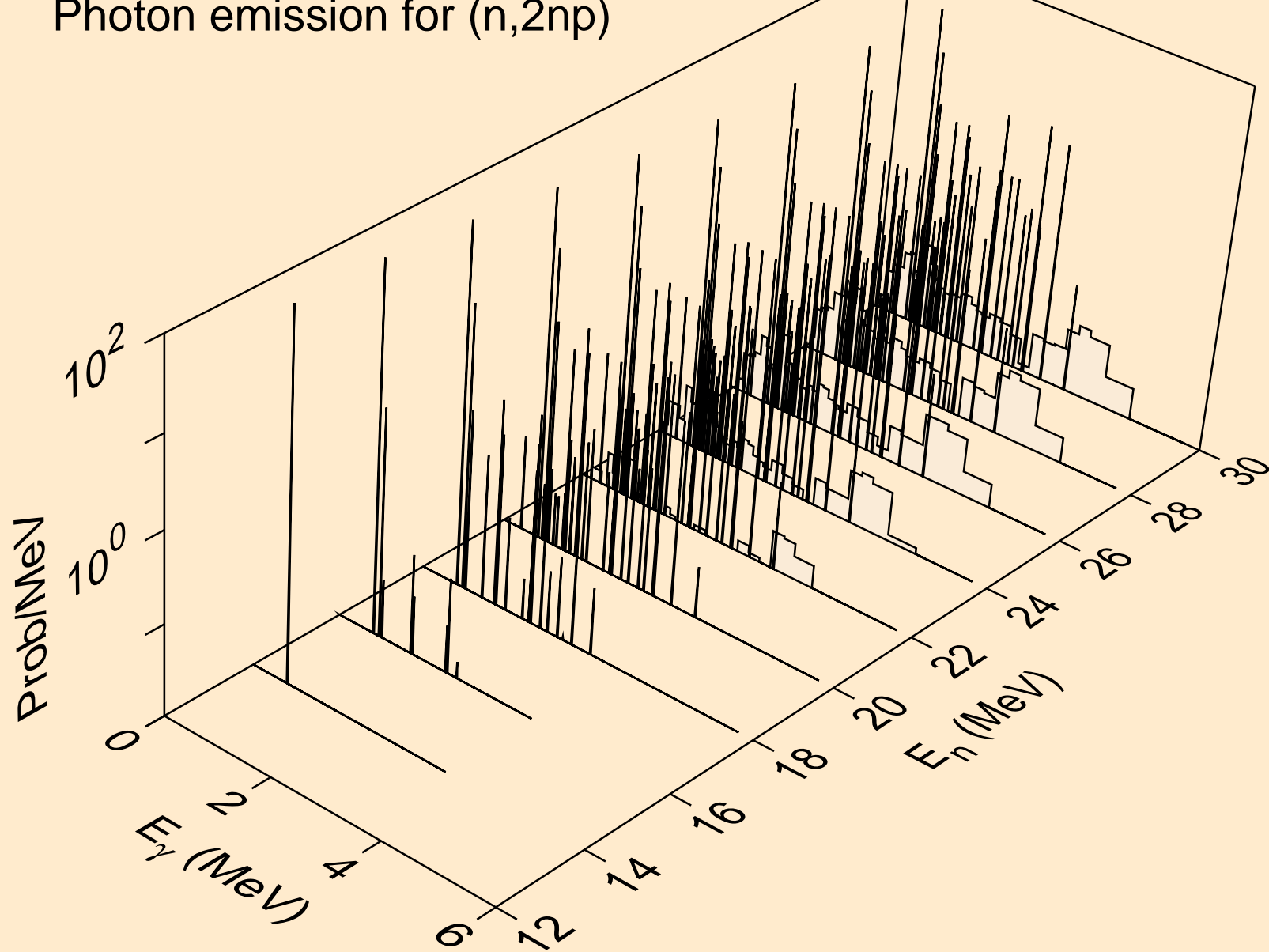
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Photon emission for (n,n\*)he3



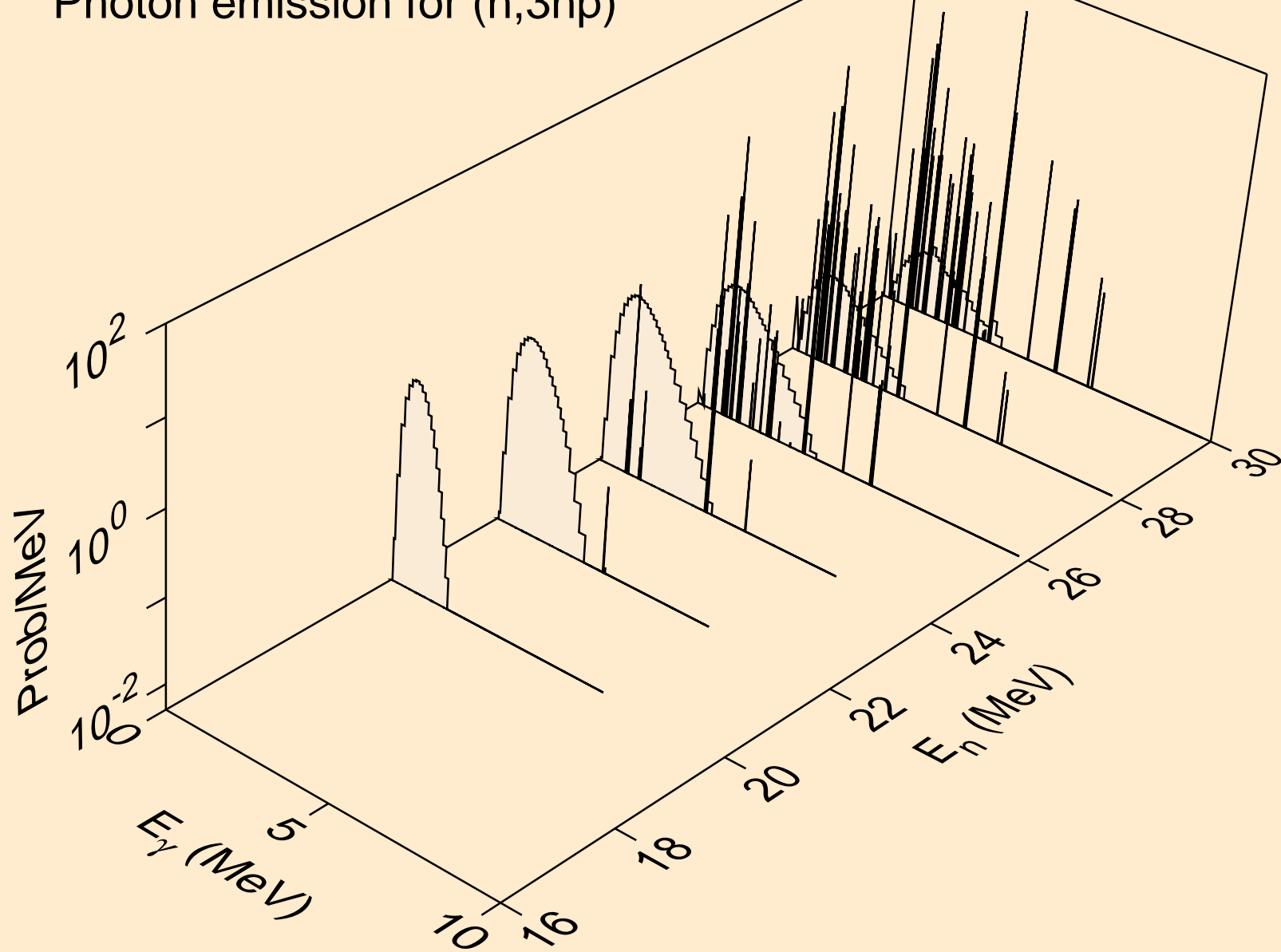
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Photon emission for (n,4n)



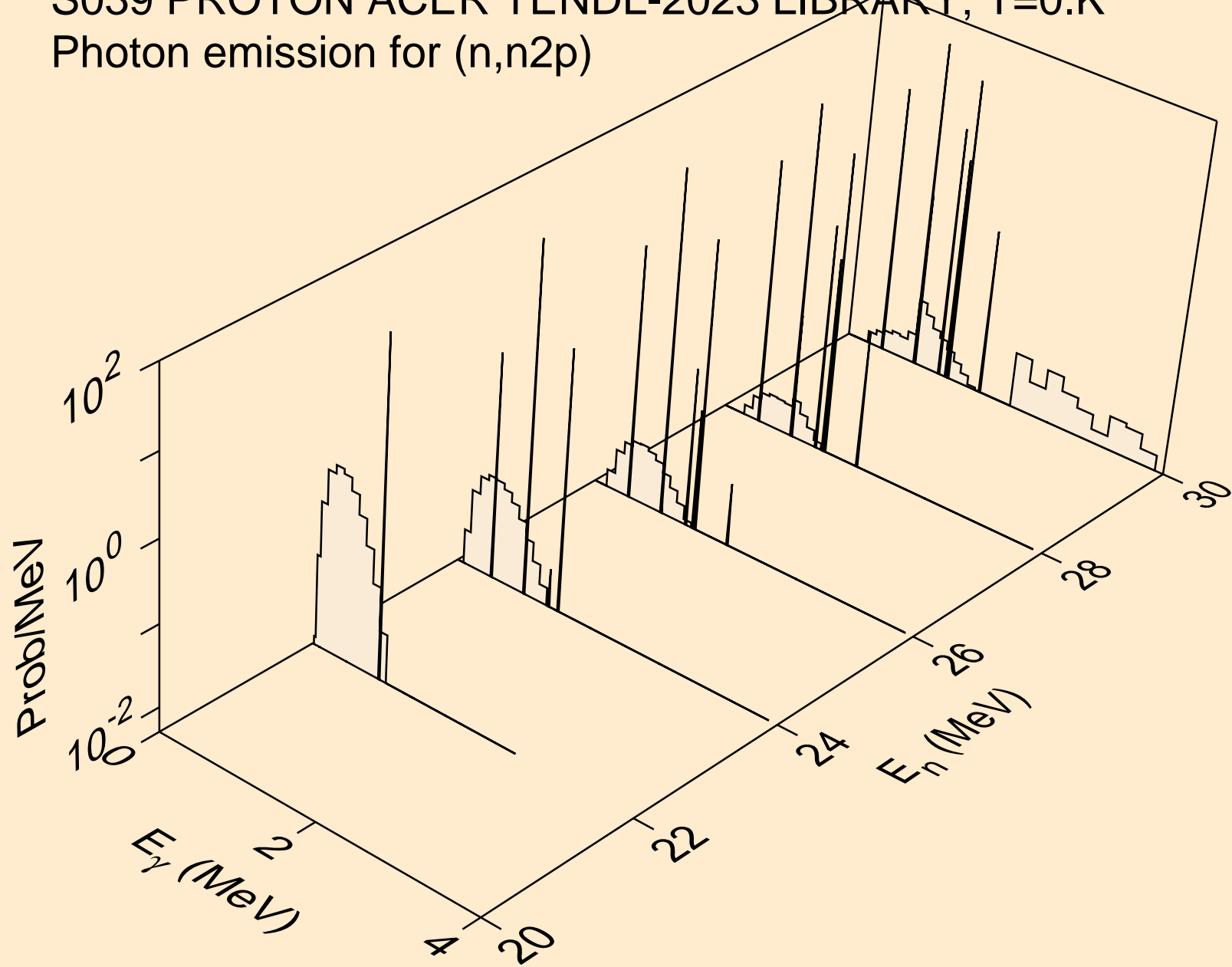
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Photon emission for (n,2np)



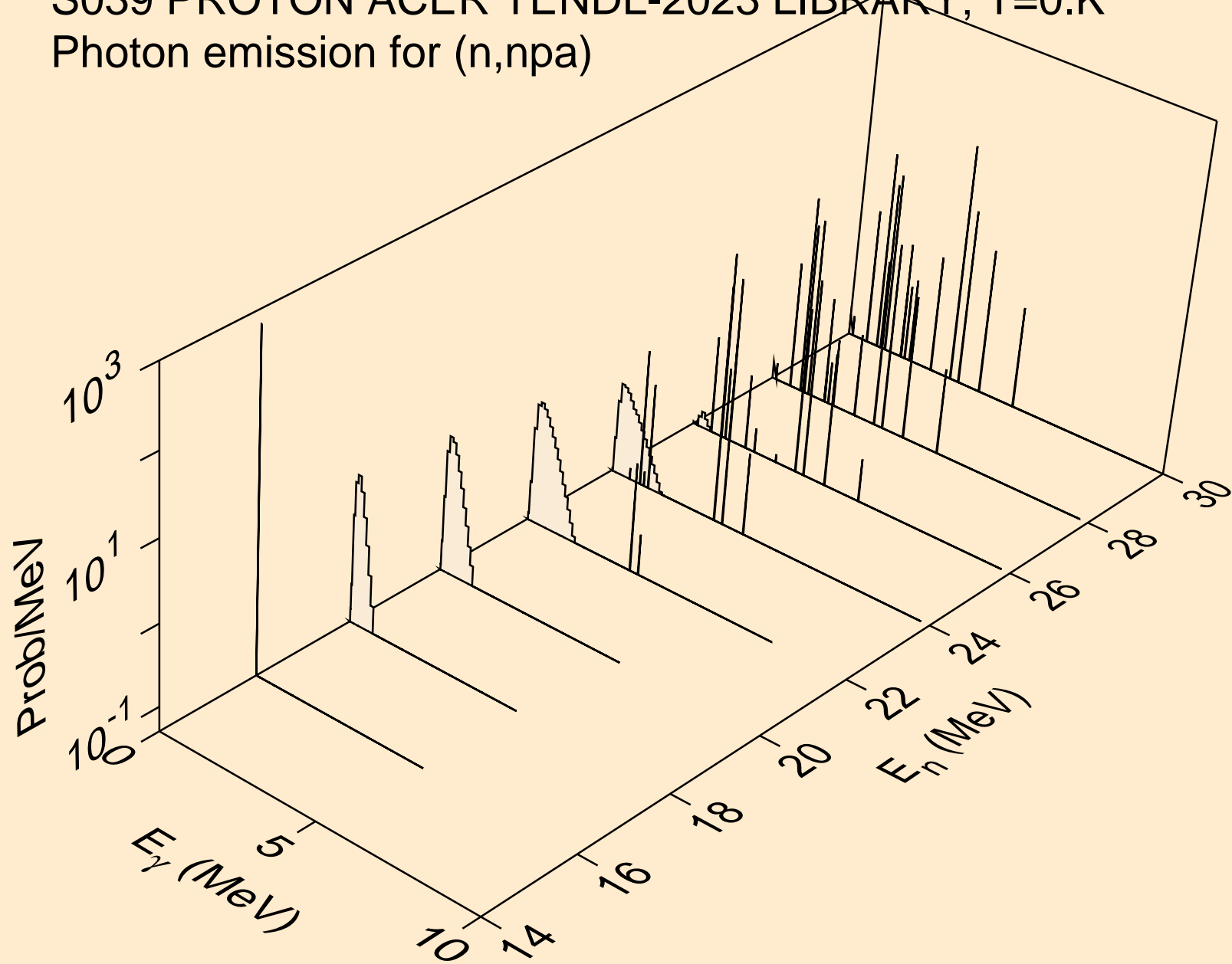
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Photon emission for (n,3np)



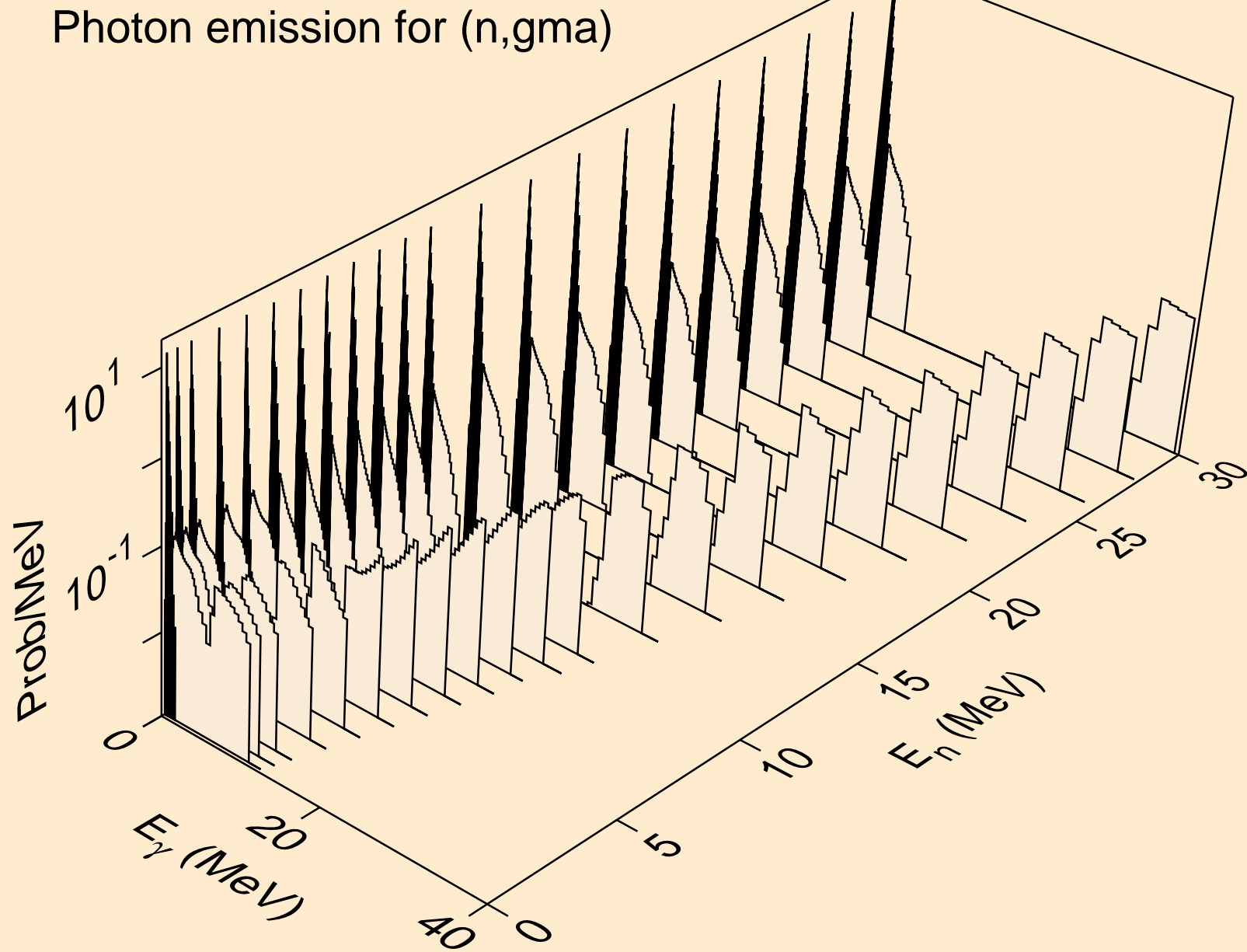
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)

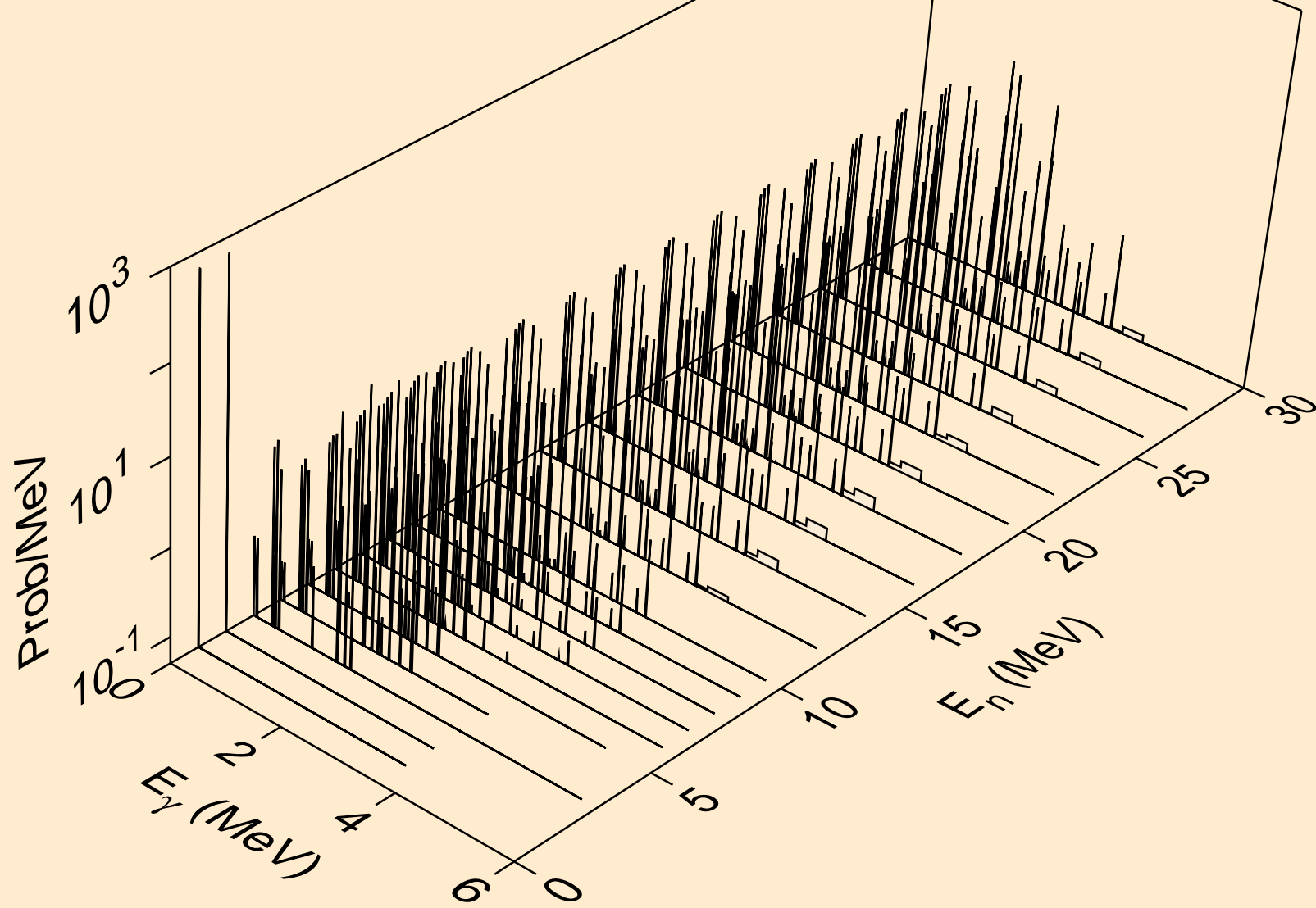


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Photon emission for (n,gma)

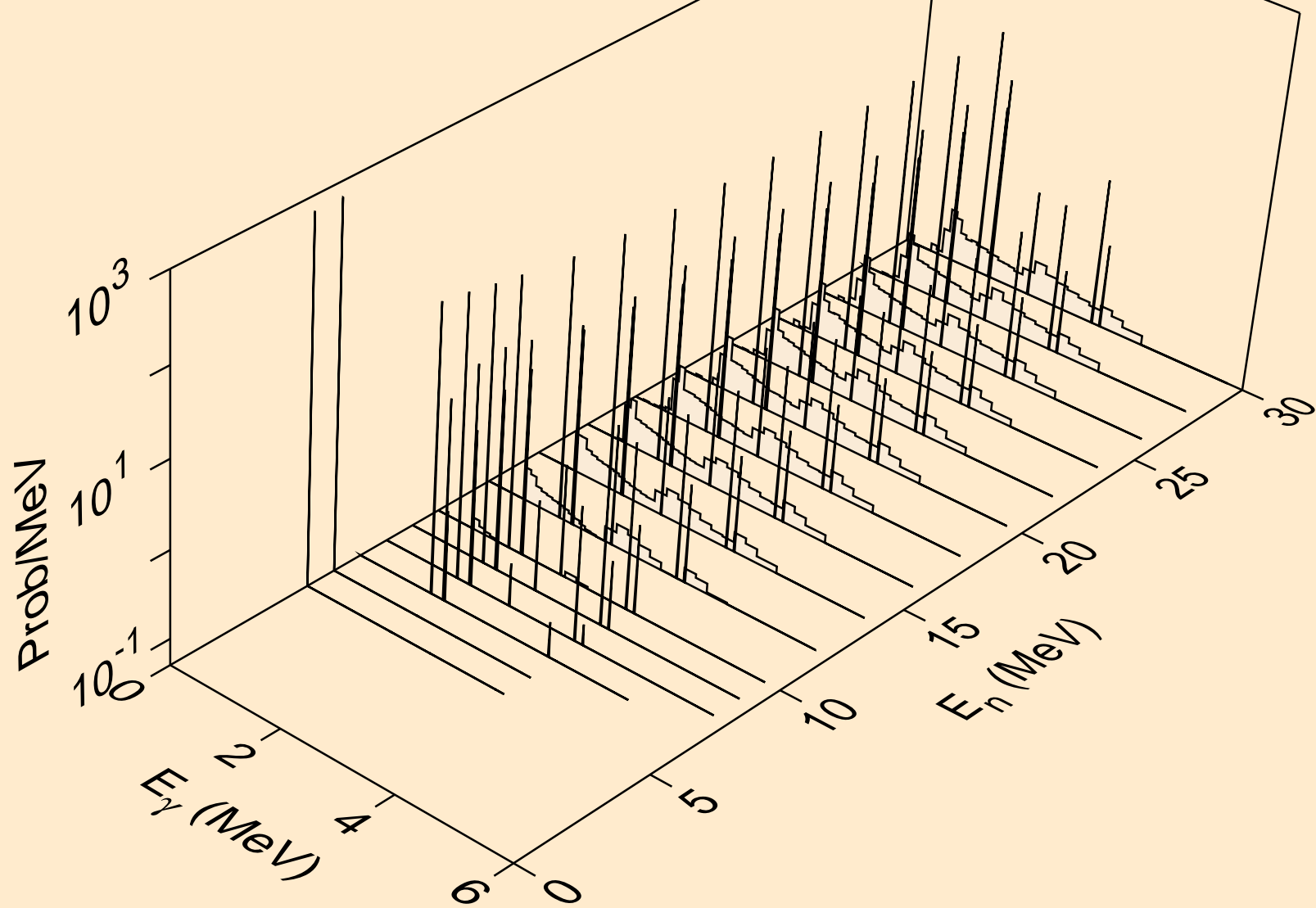




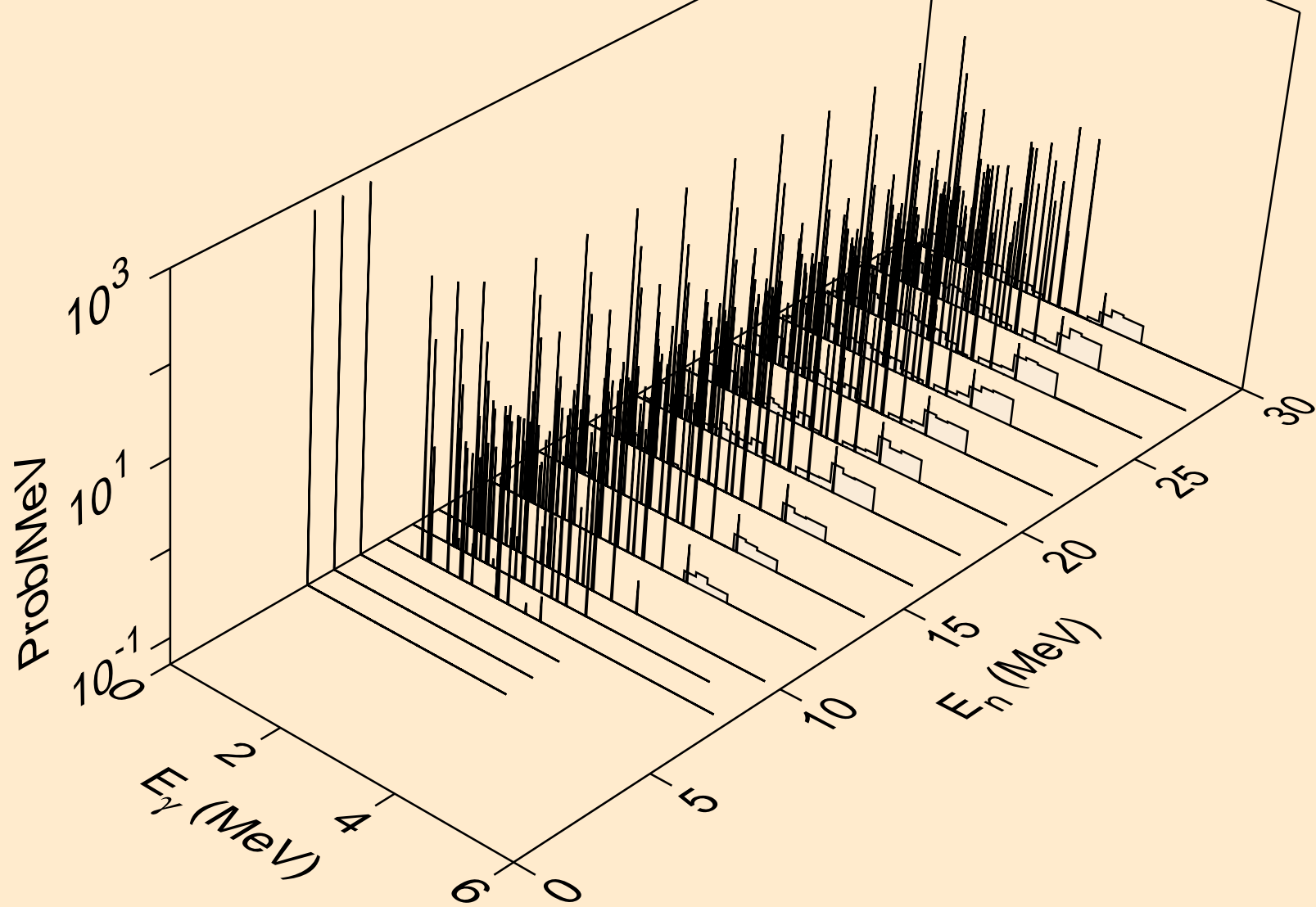
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Photon emission for inelastic



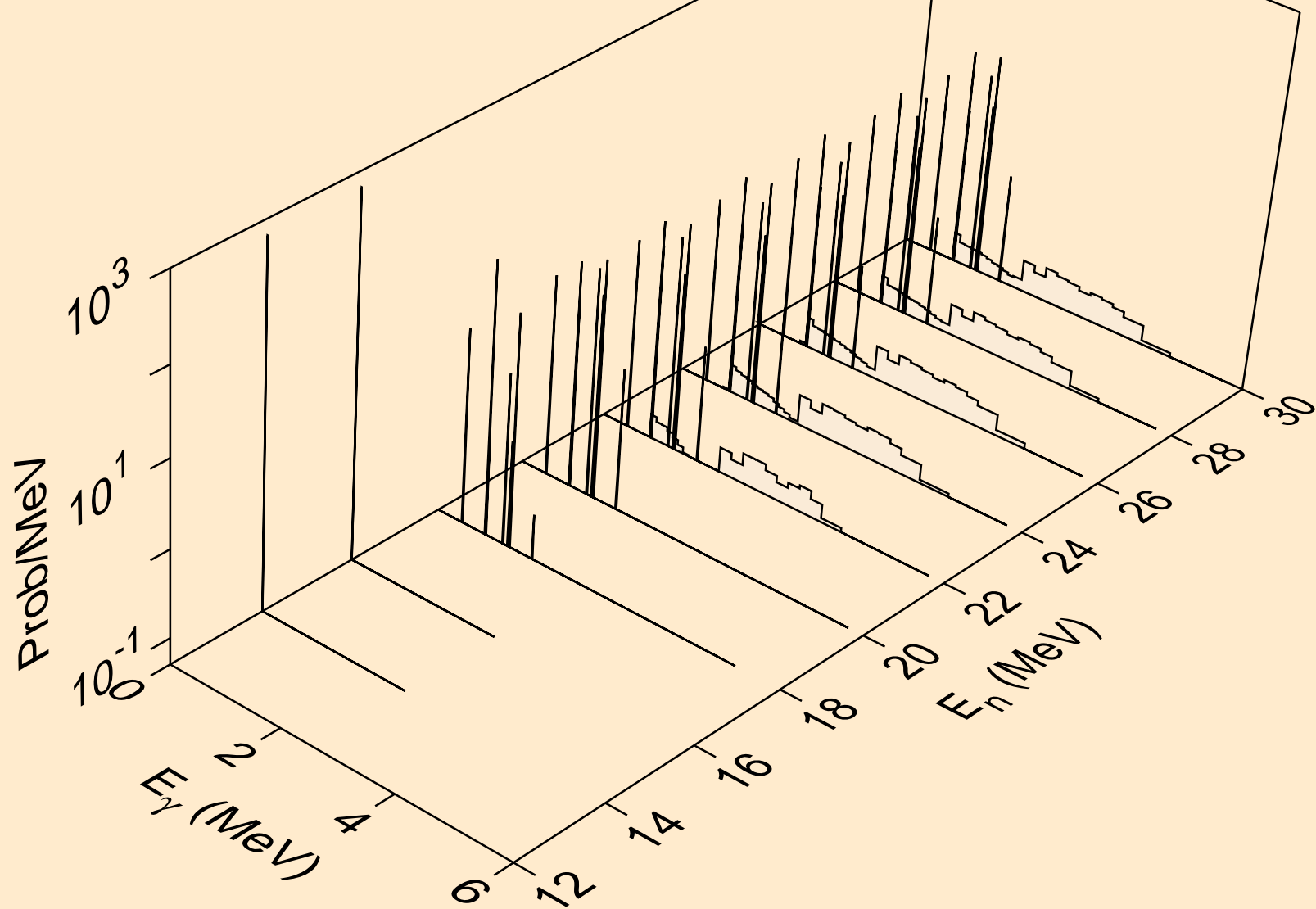
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Photon emission for (n,d)



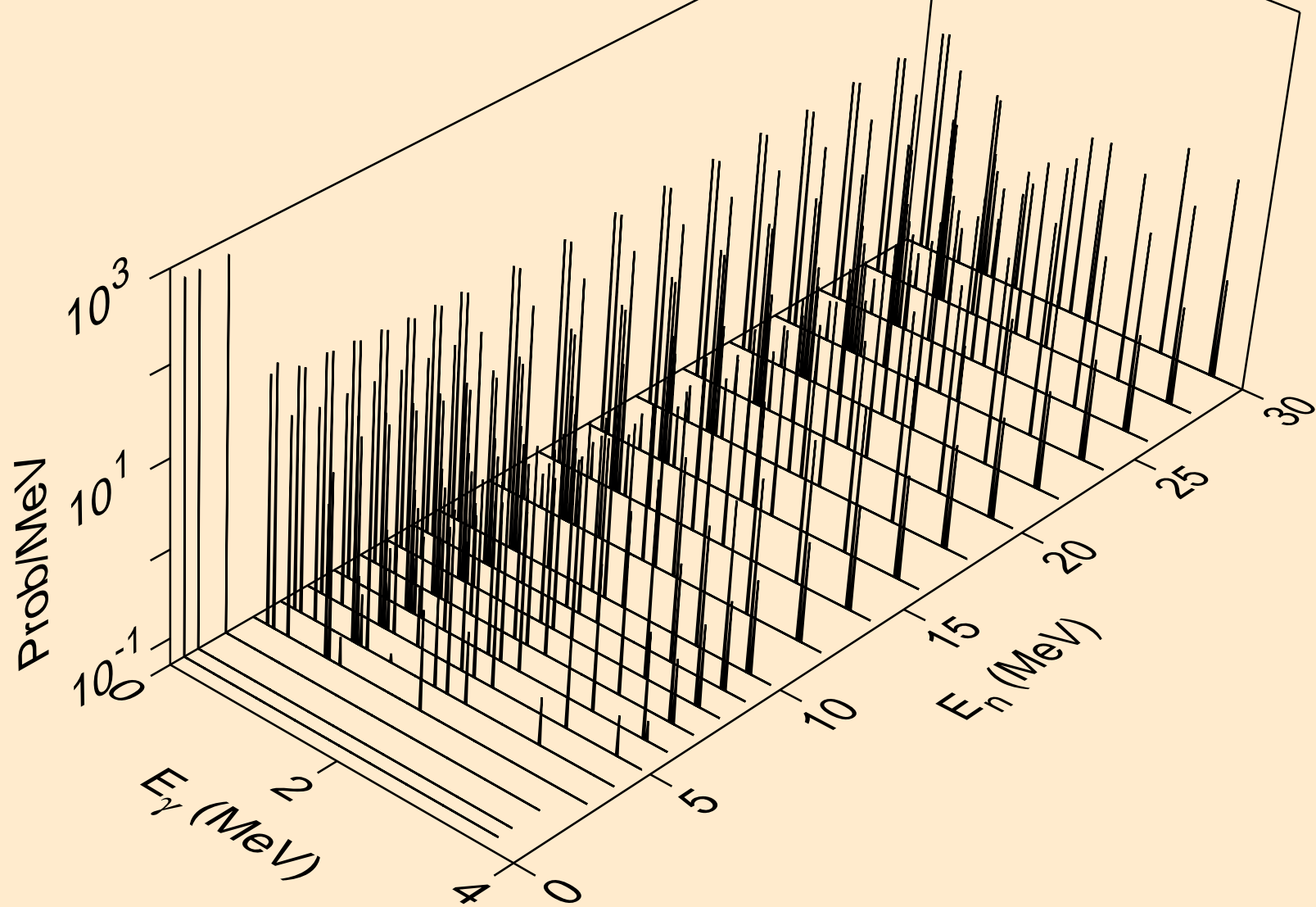
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Photon emission for (n,t)



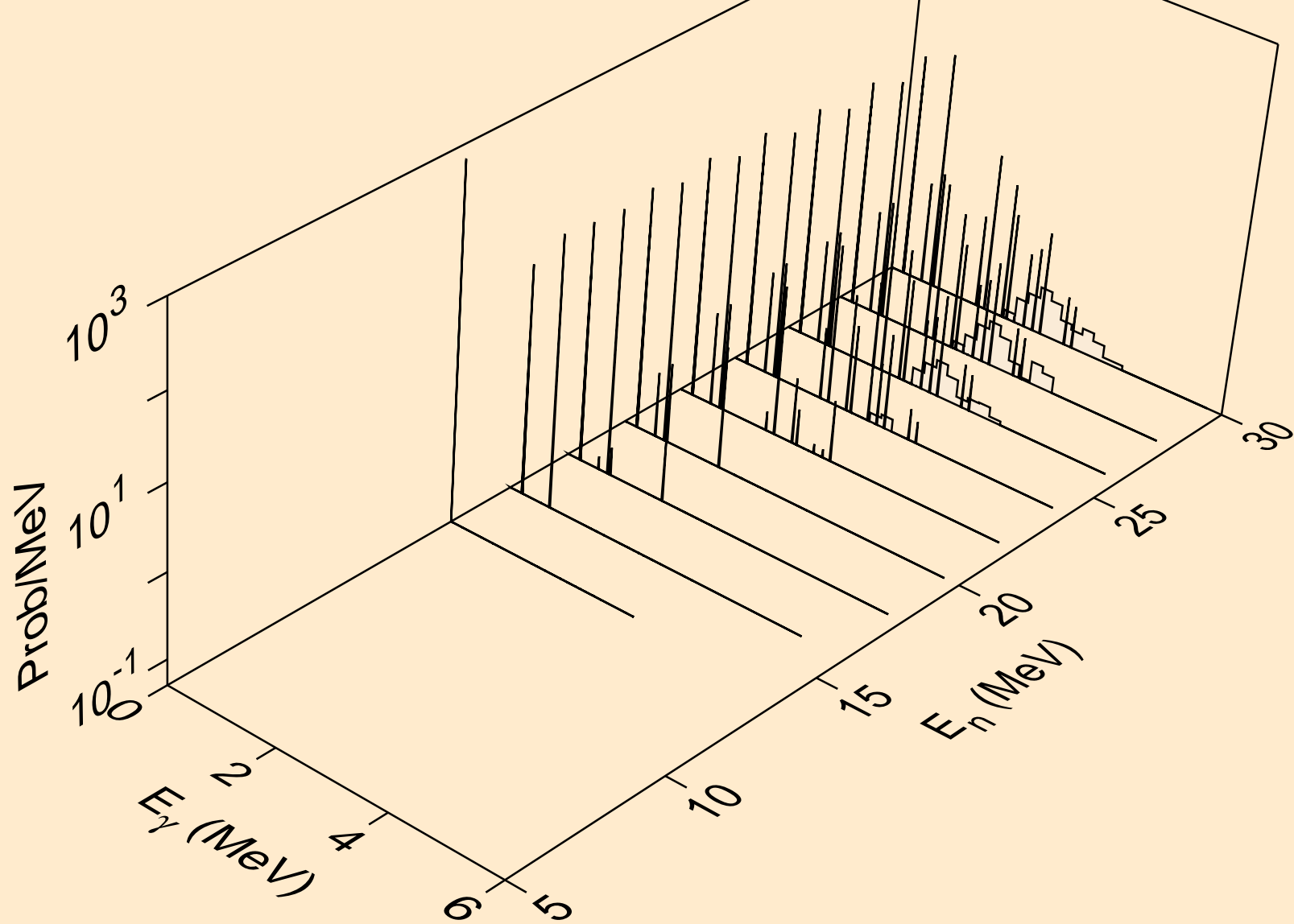
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Photon emission for (n,he3)



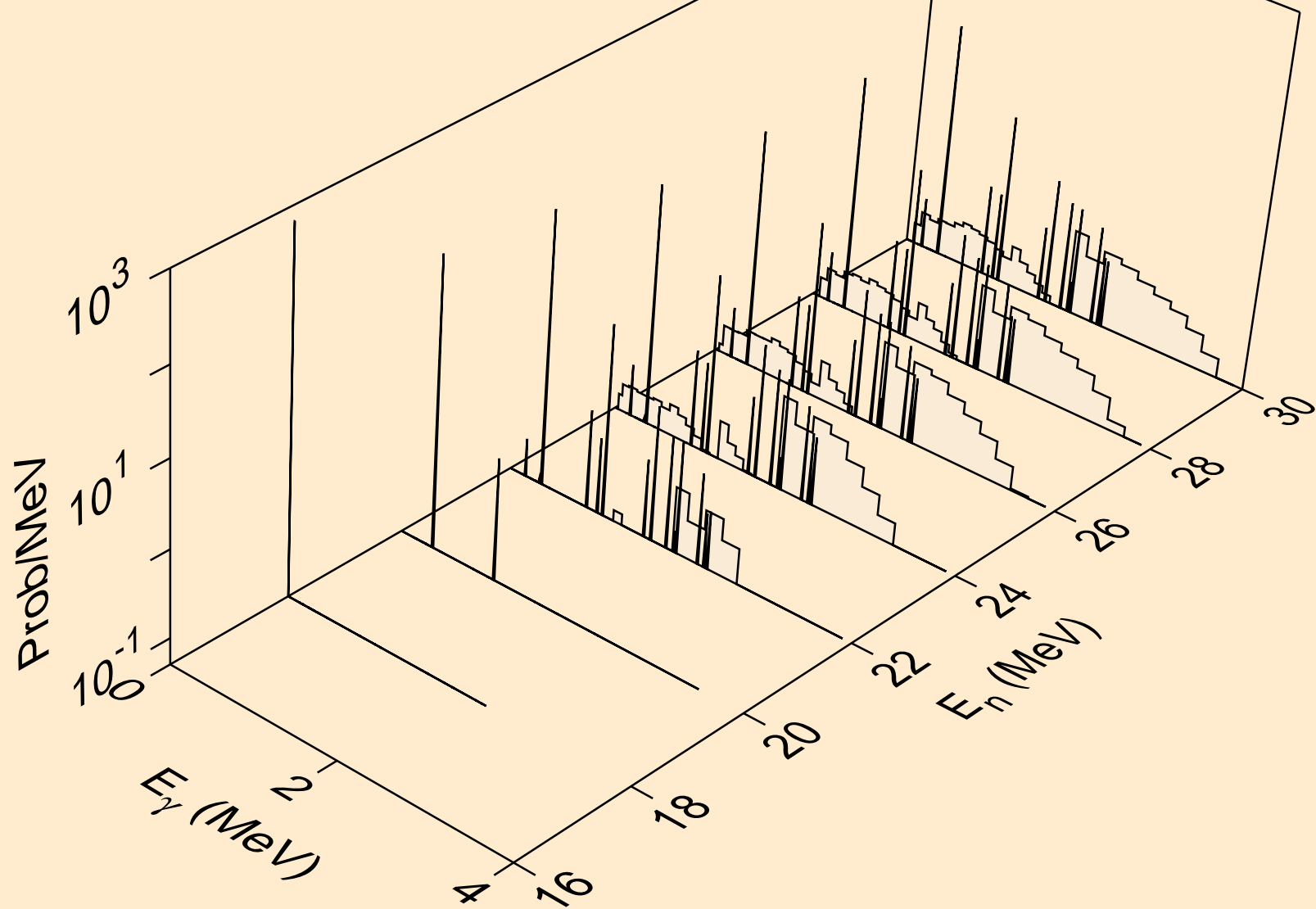
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Photon emission for (n,a)



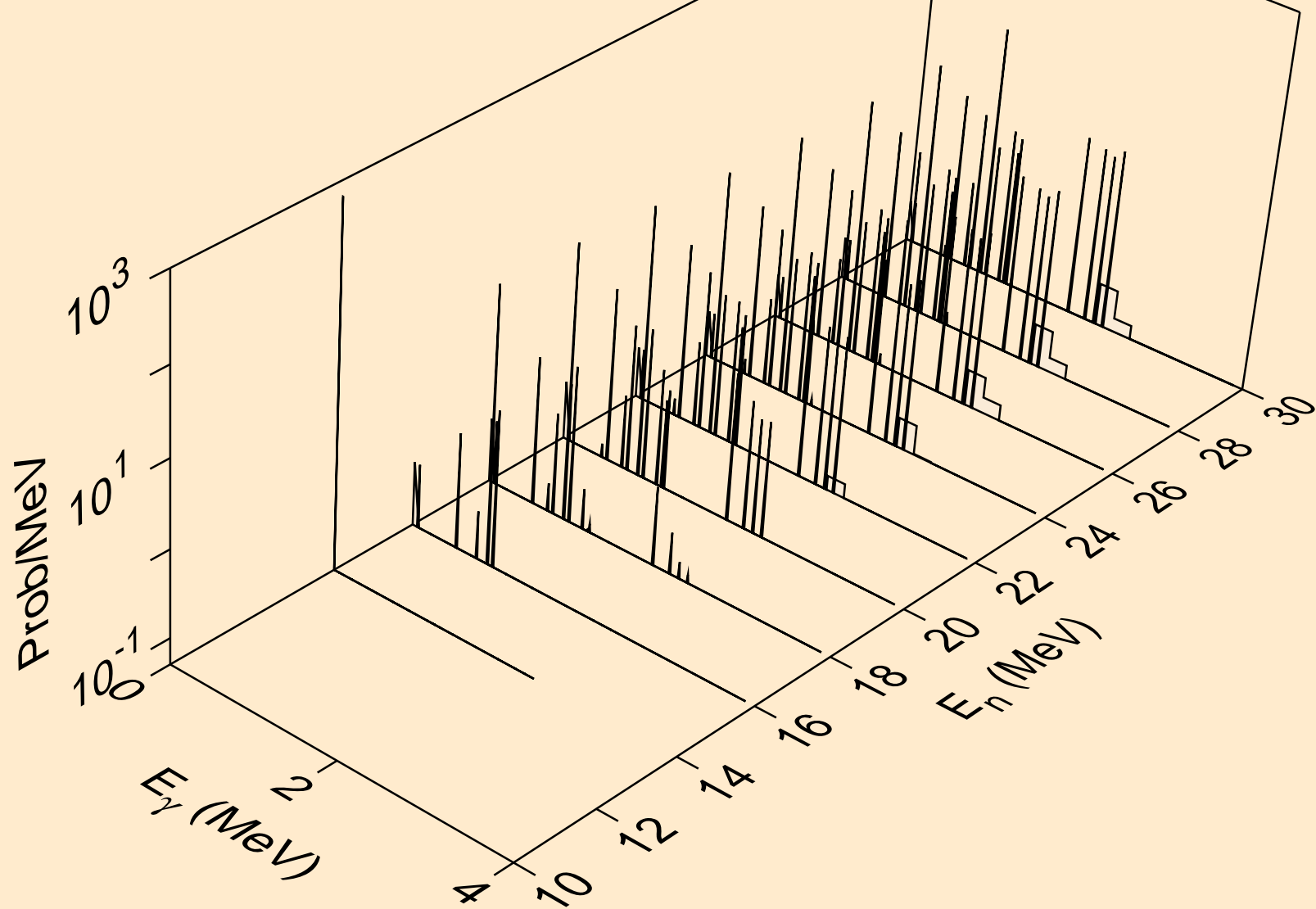
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

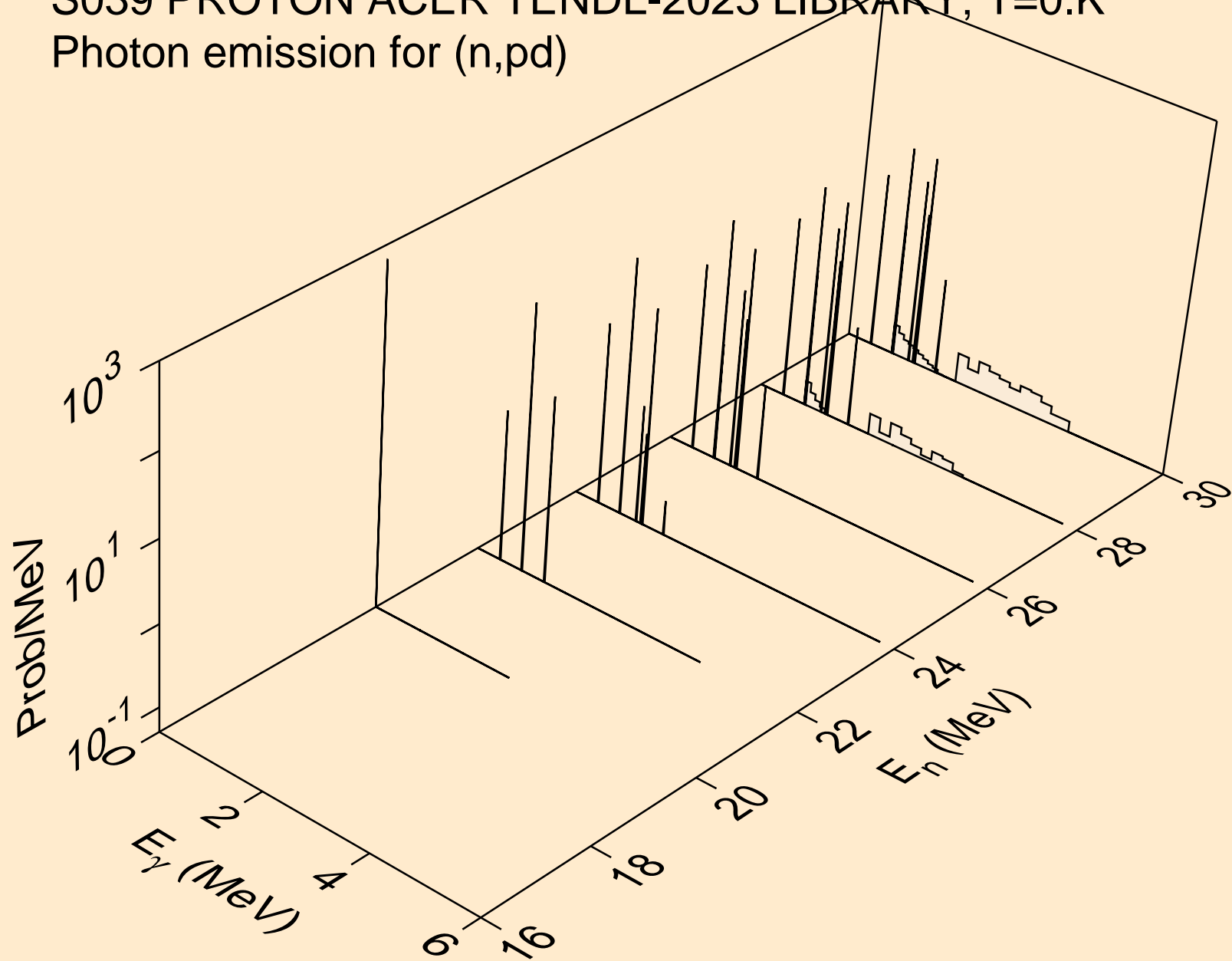


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Photon emission for (n,pa)

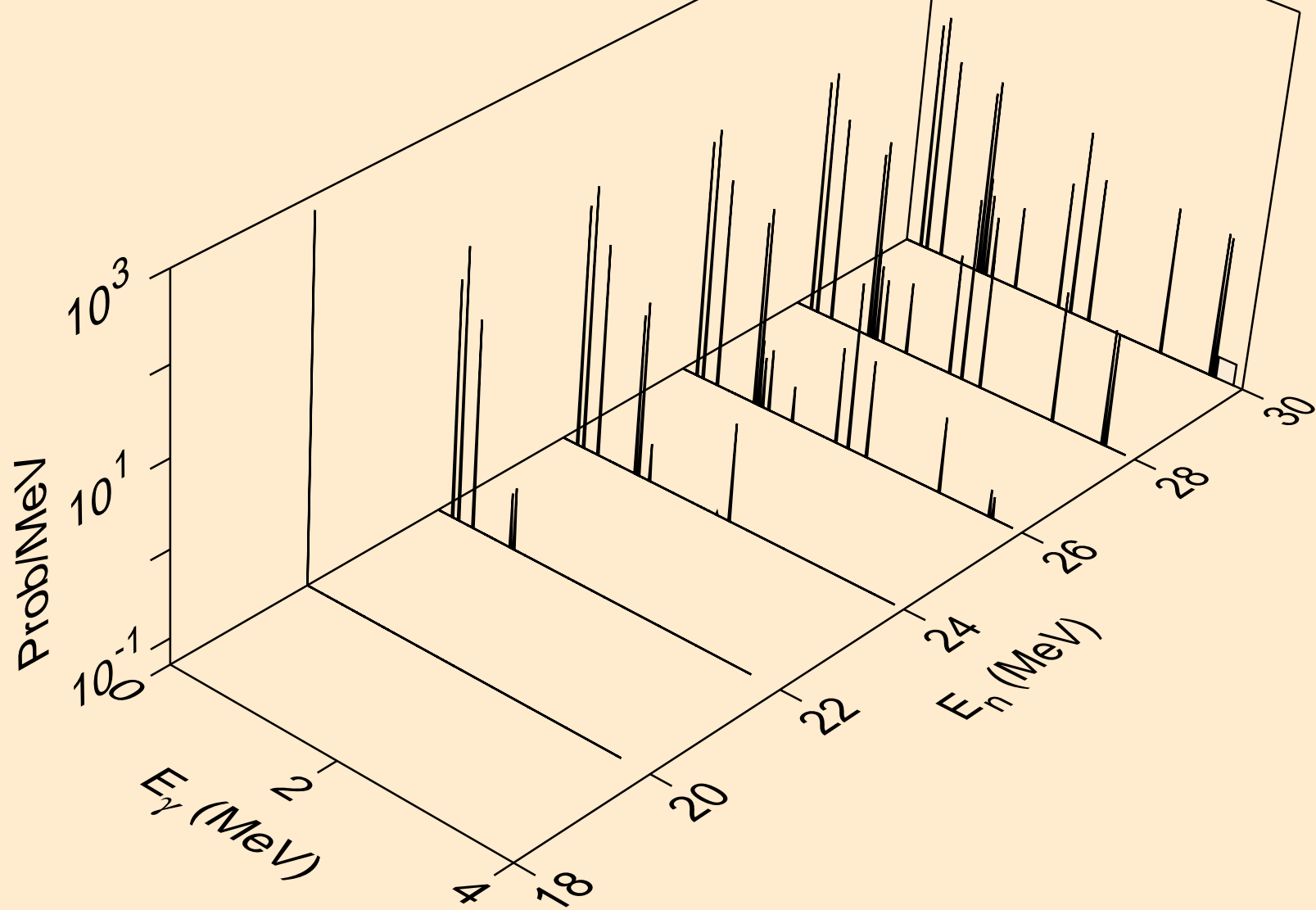




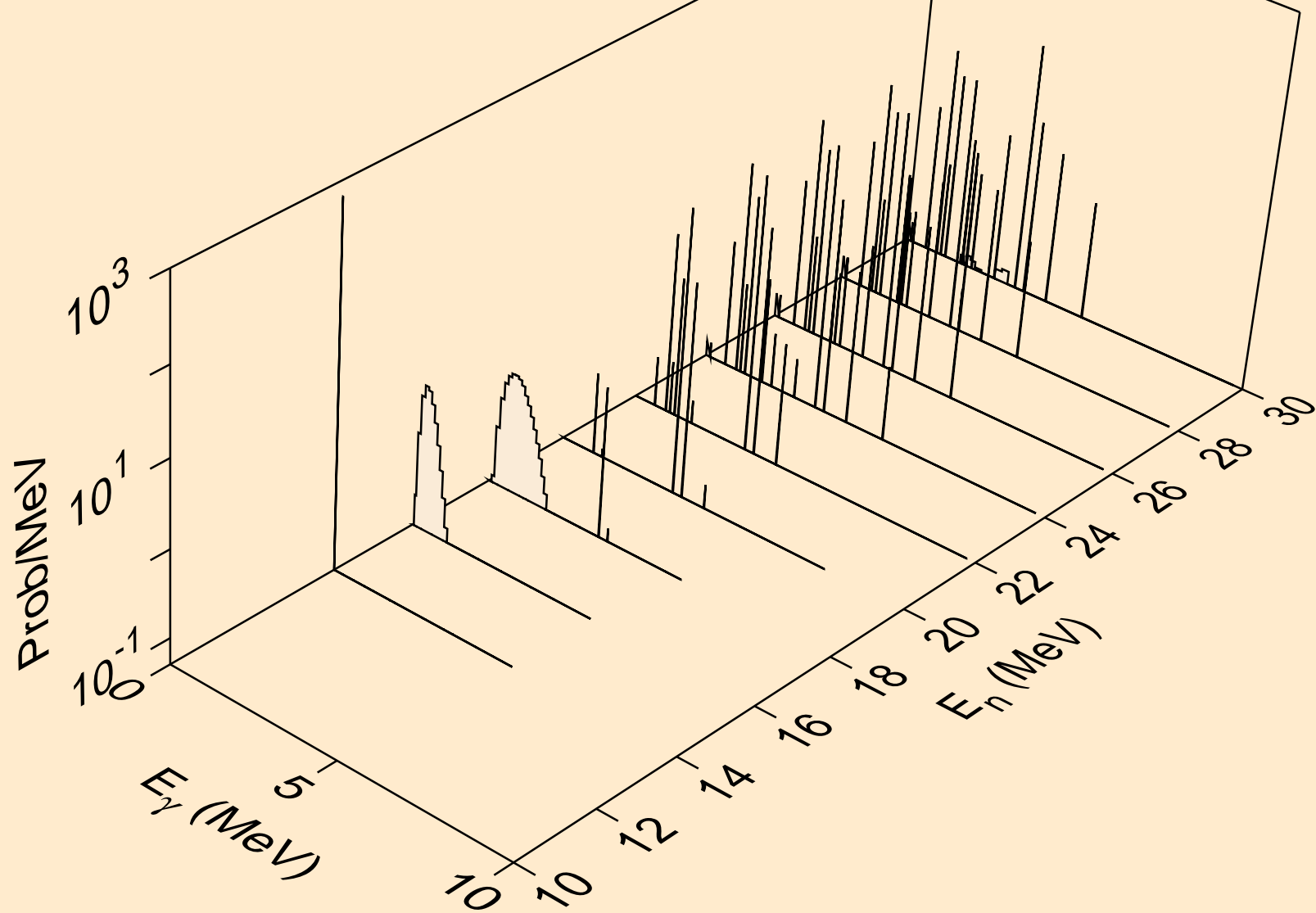
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Photon emission for (n,pd)



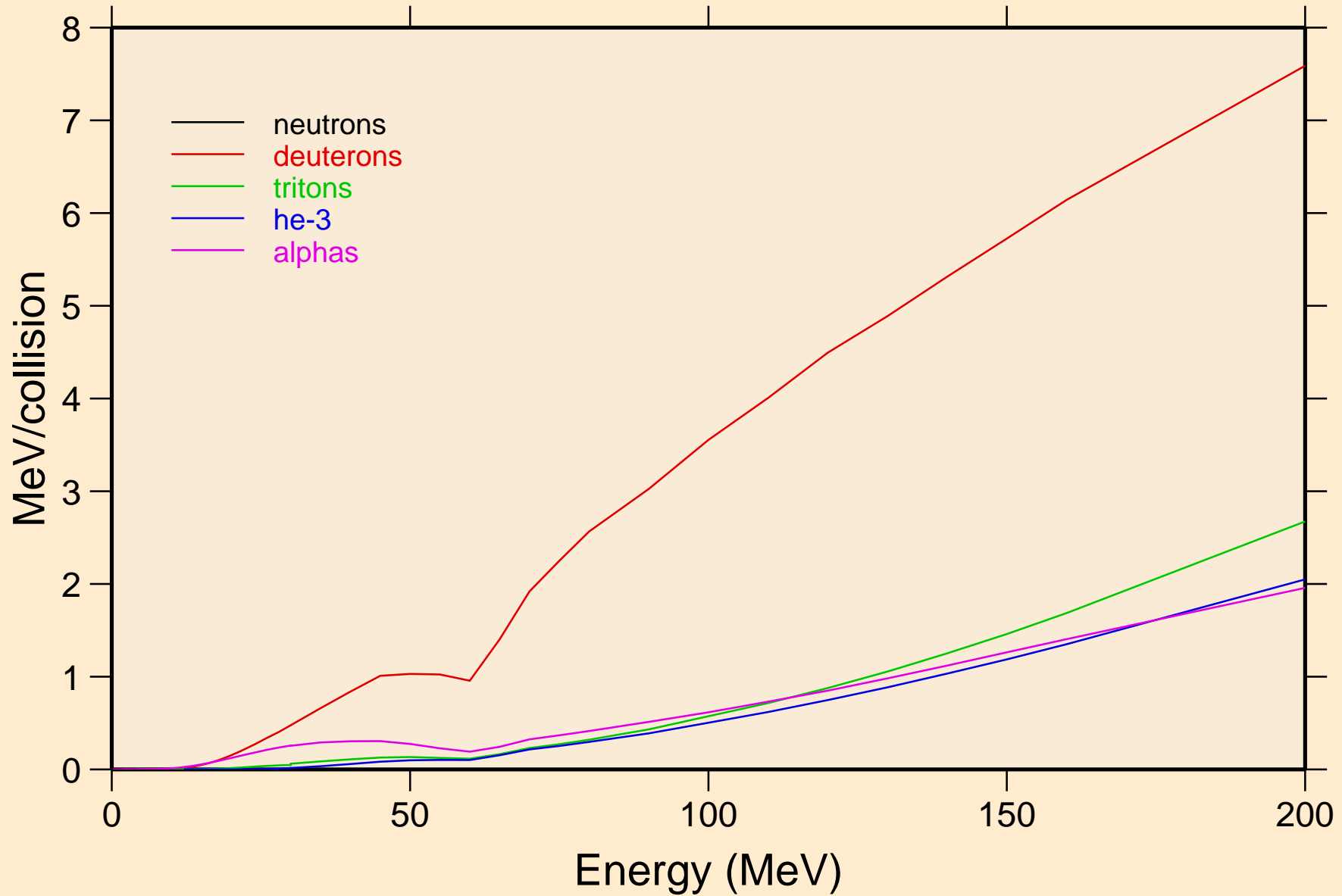
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

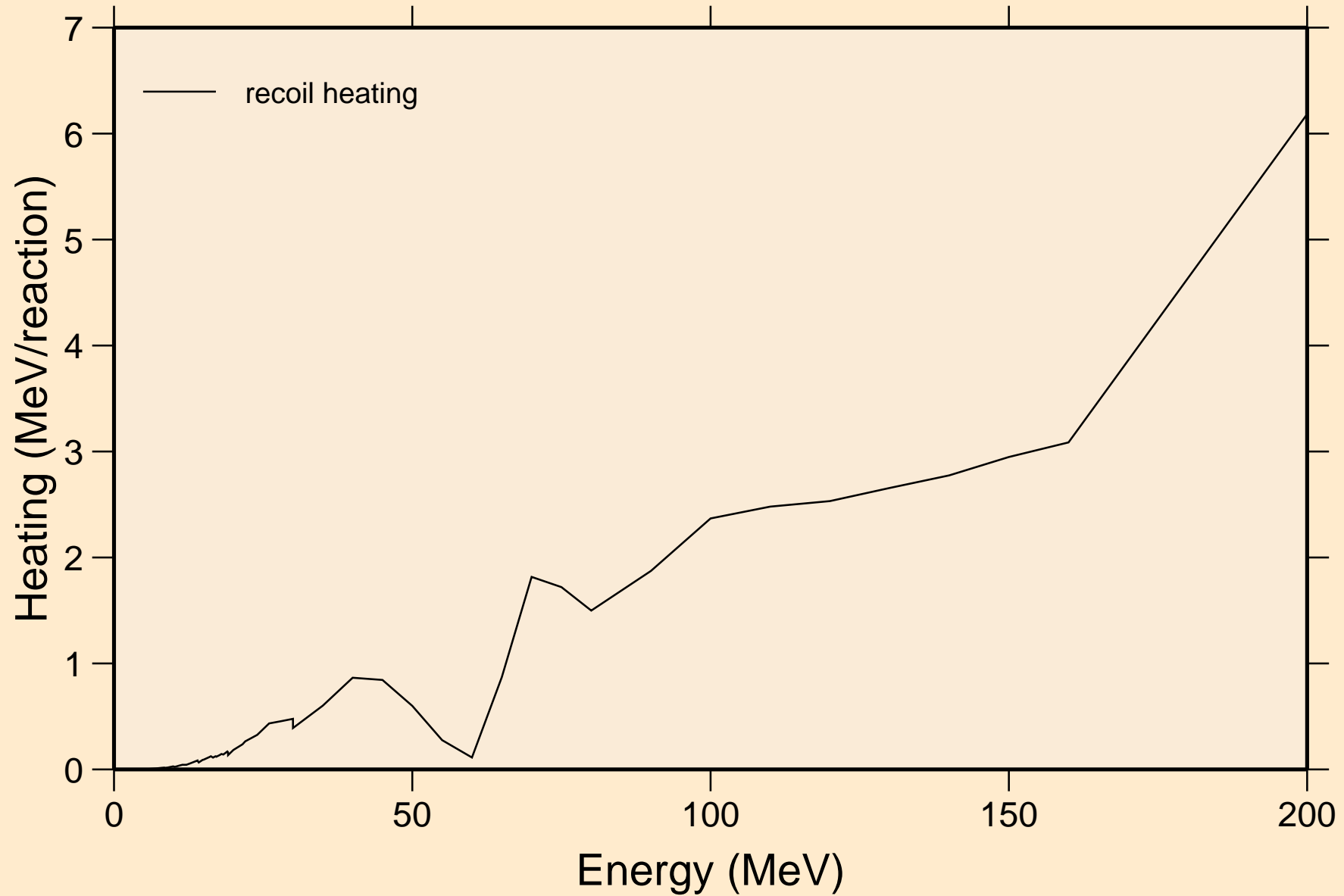


S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions



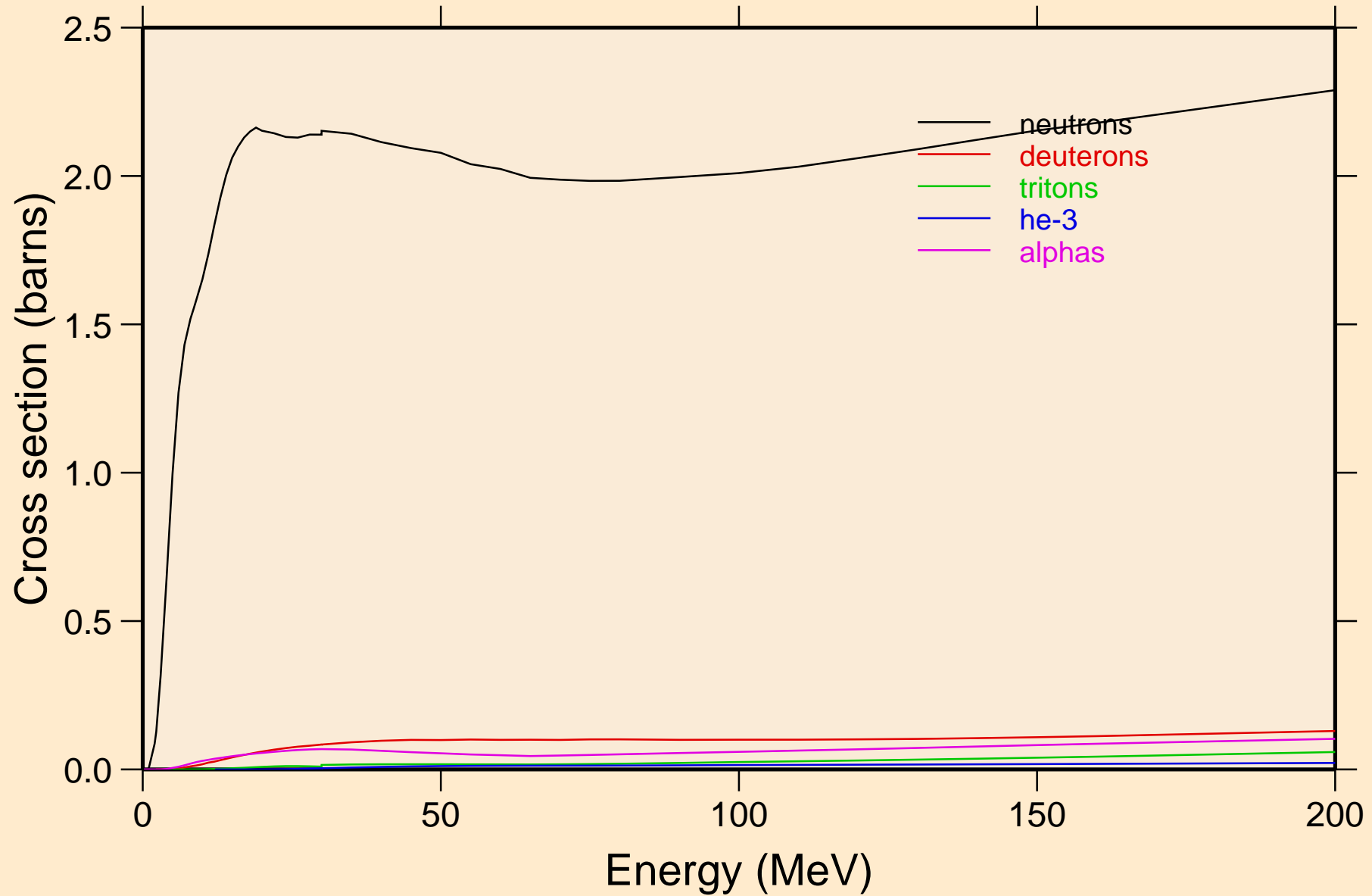
# S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating

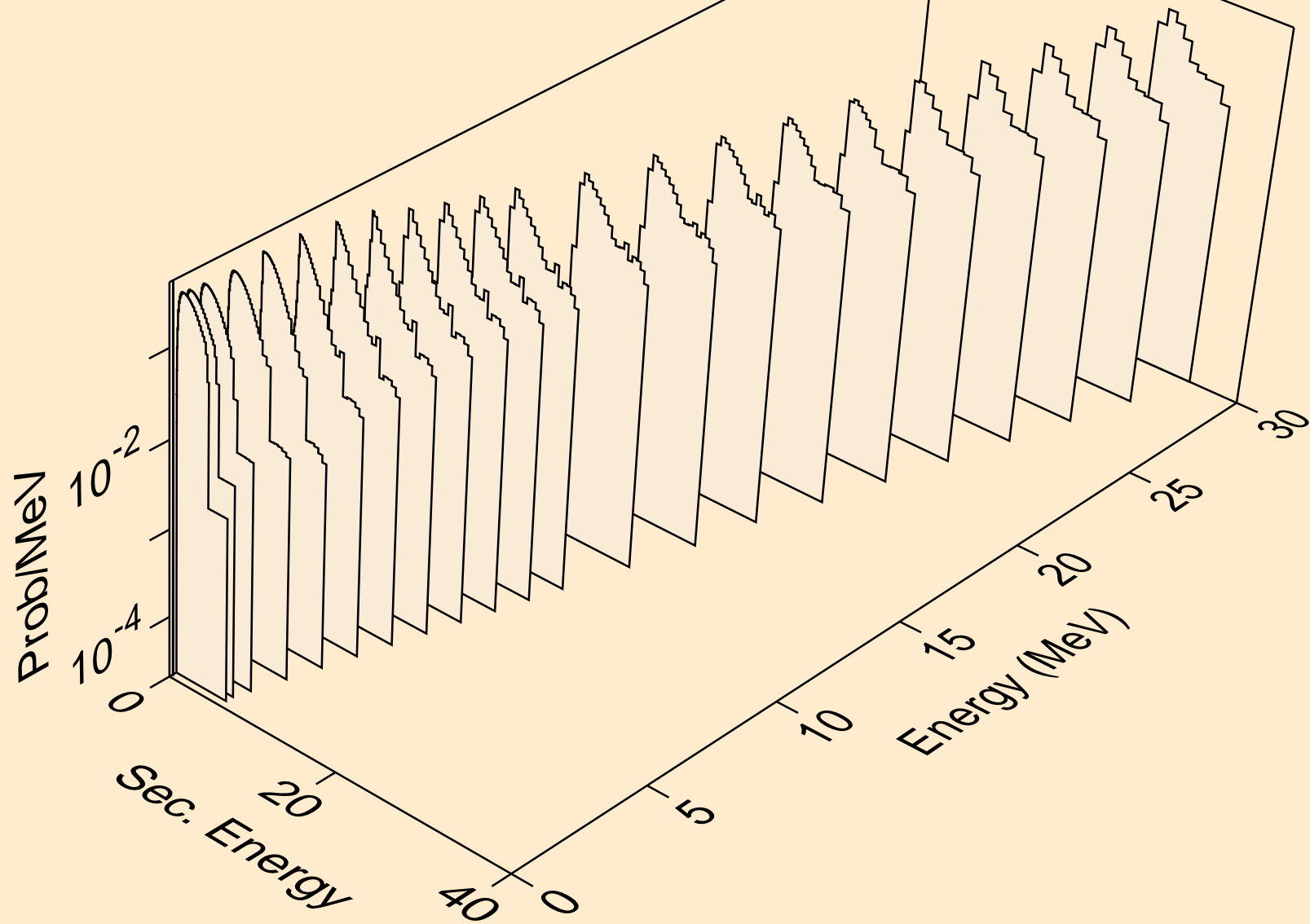


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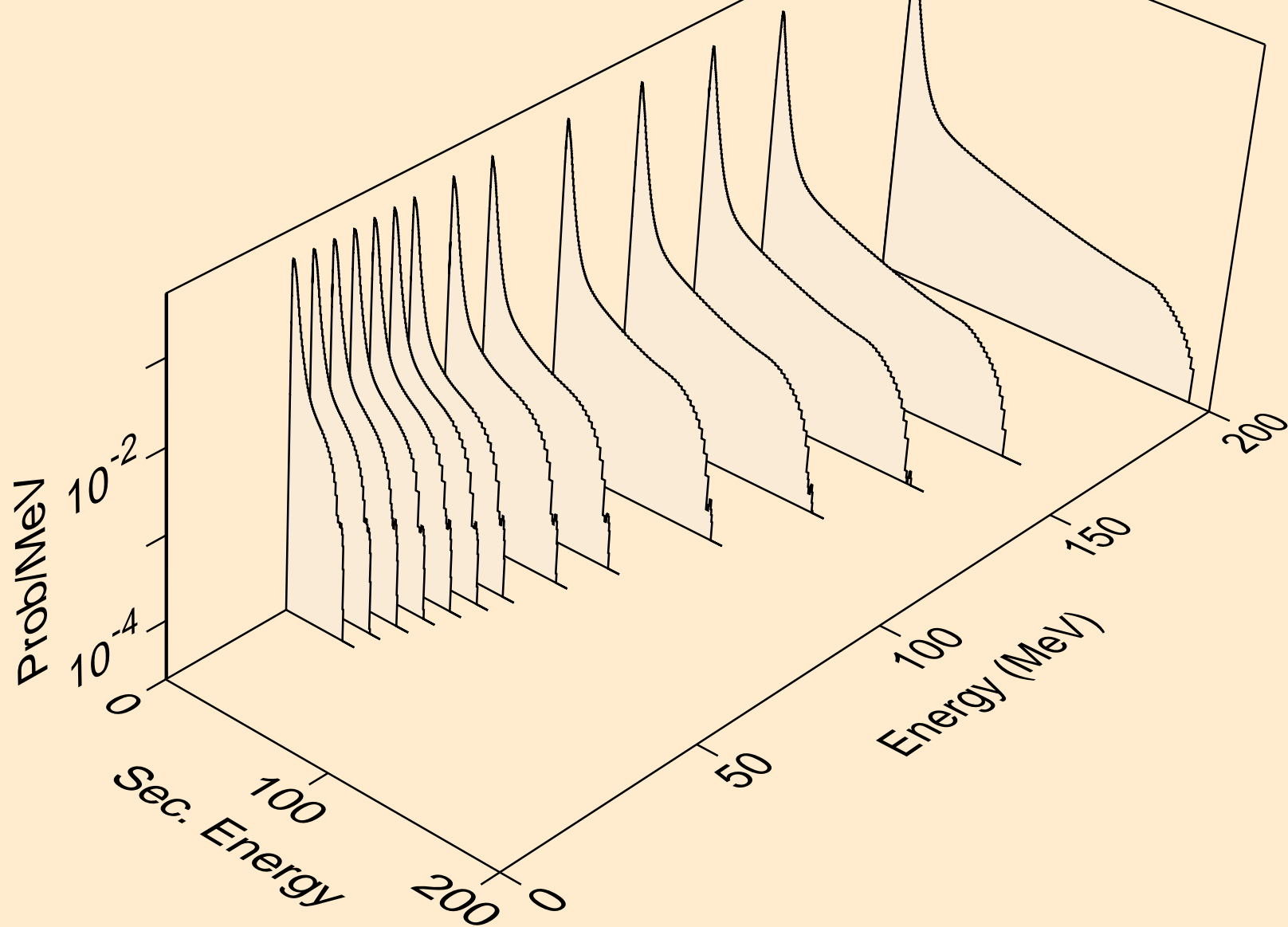
## Particle production cross sections



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)

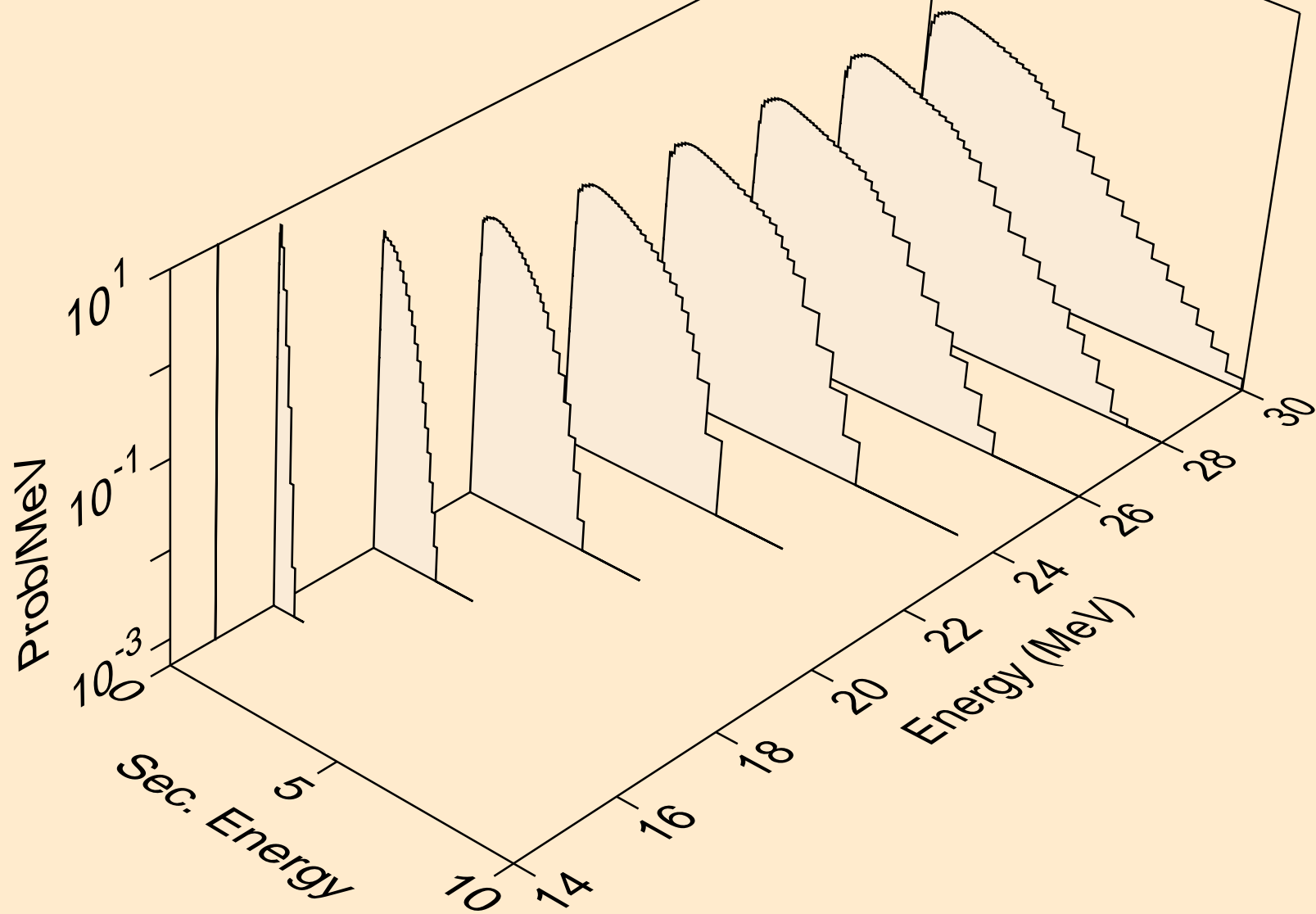


S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)

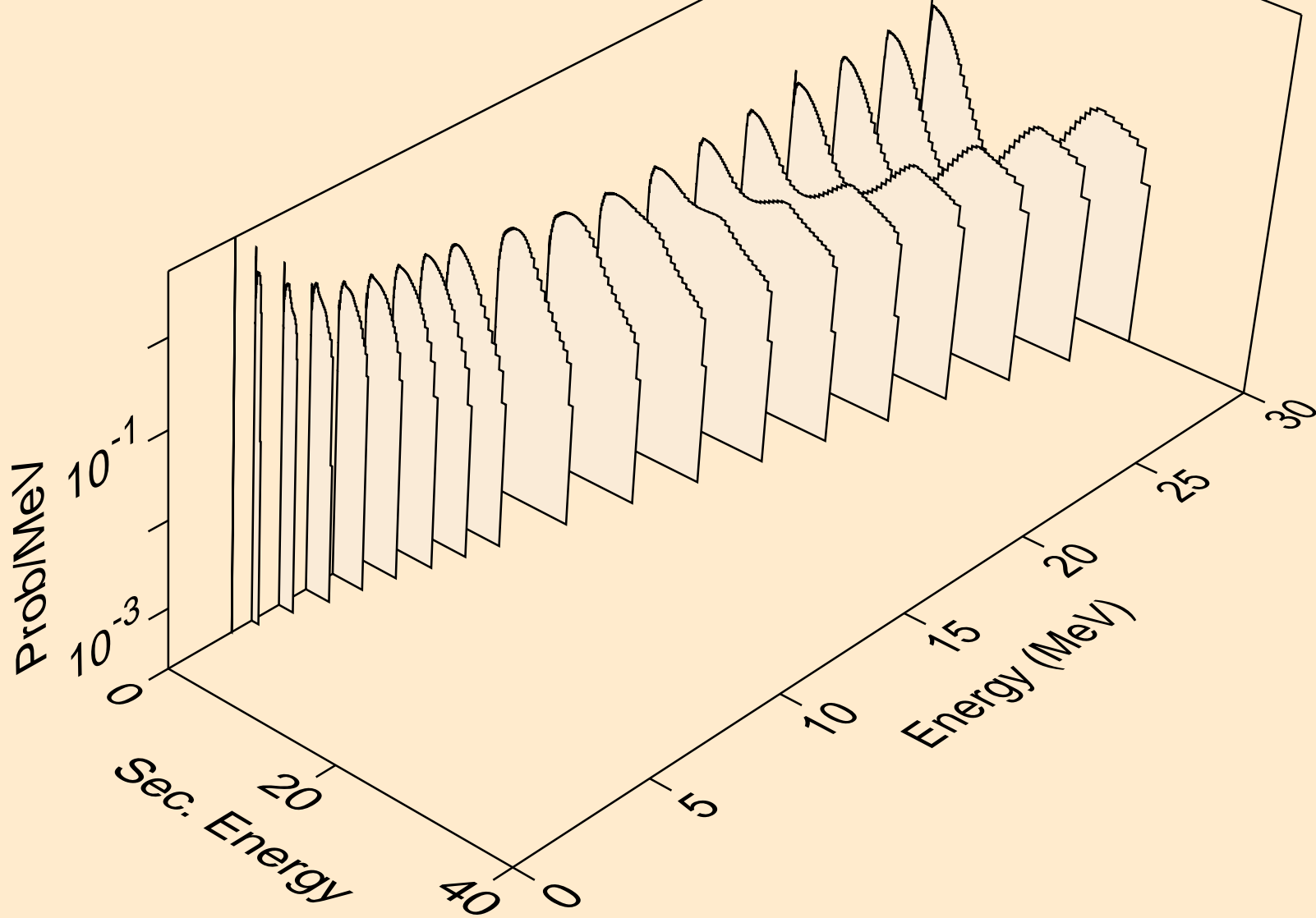




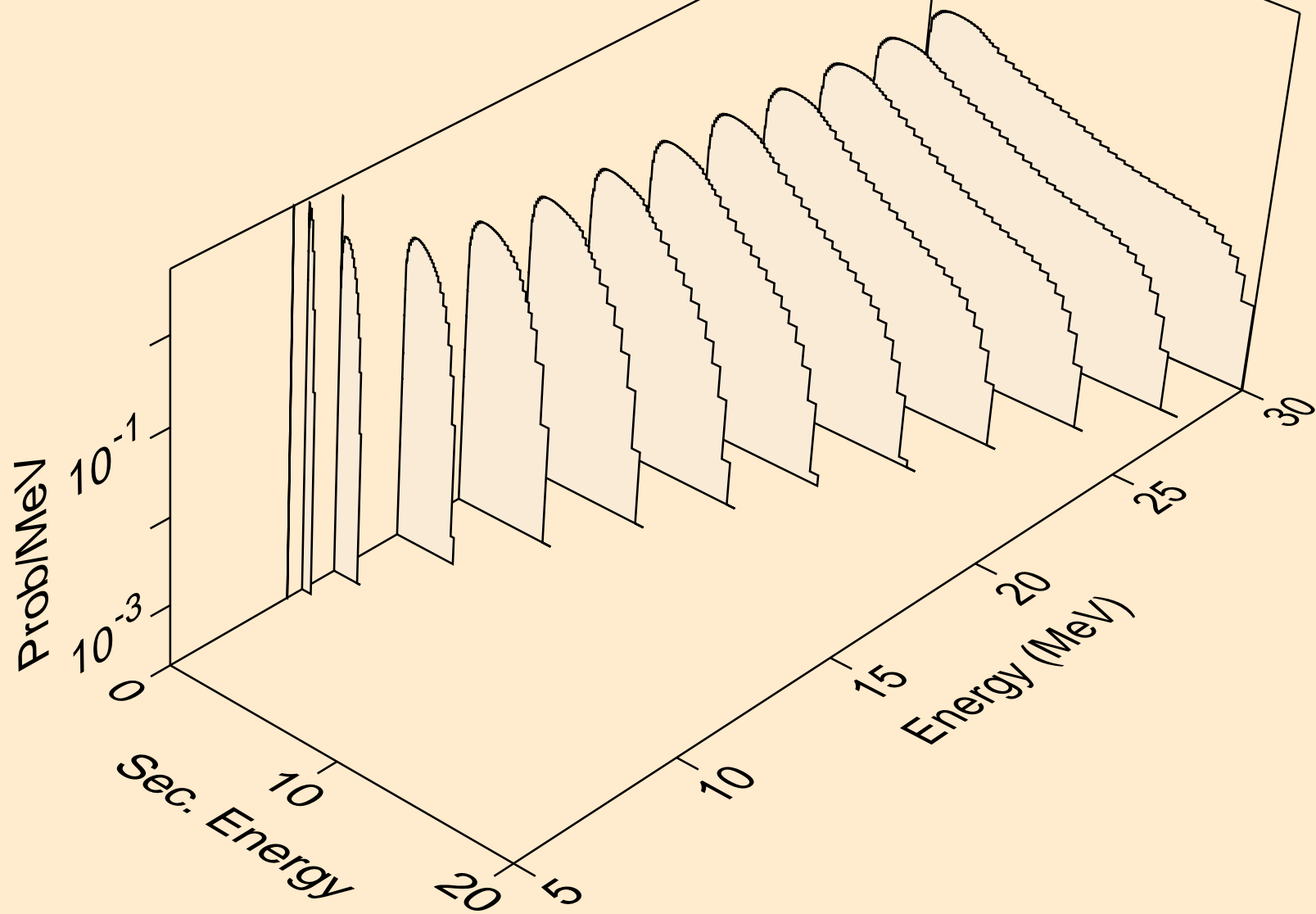
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neutrons from (p,2nd)



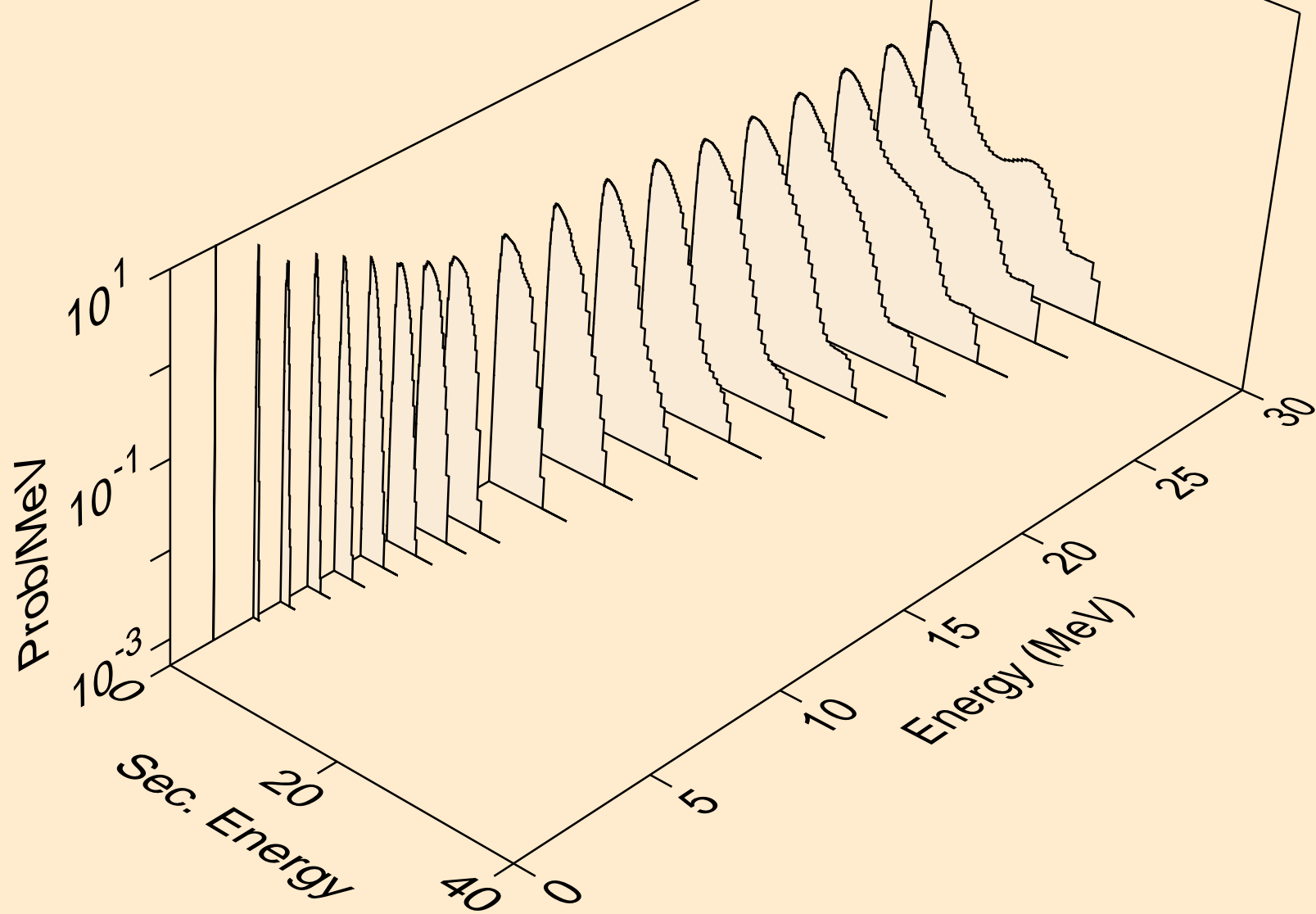
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neutrons from (p,2n)



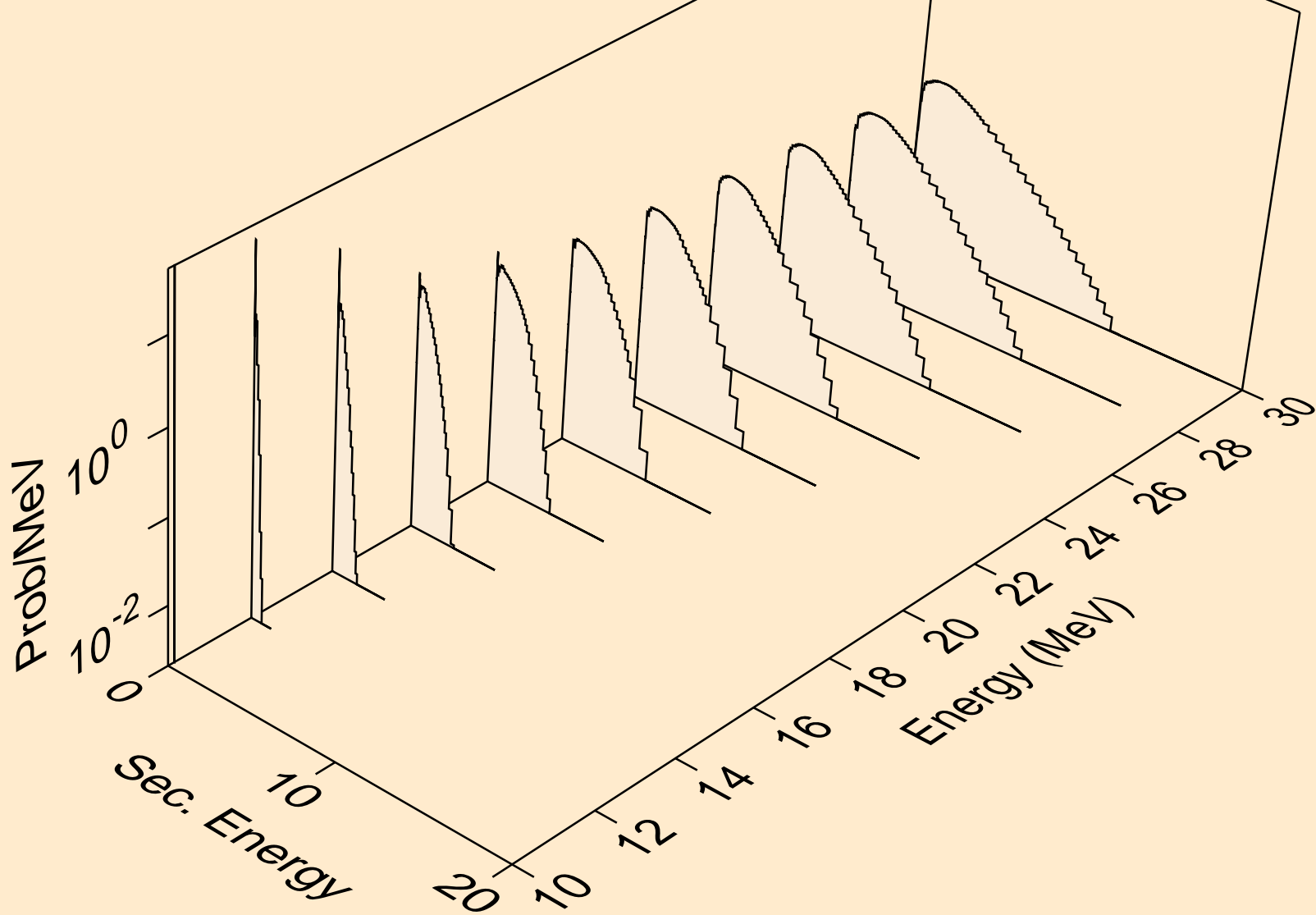
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neutrons from (p,3n)



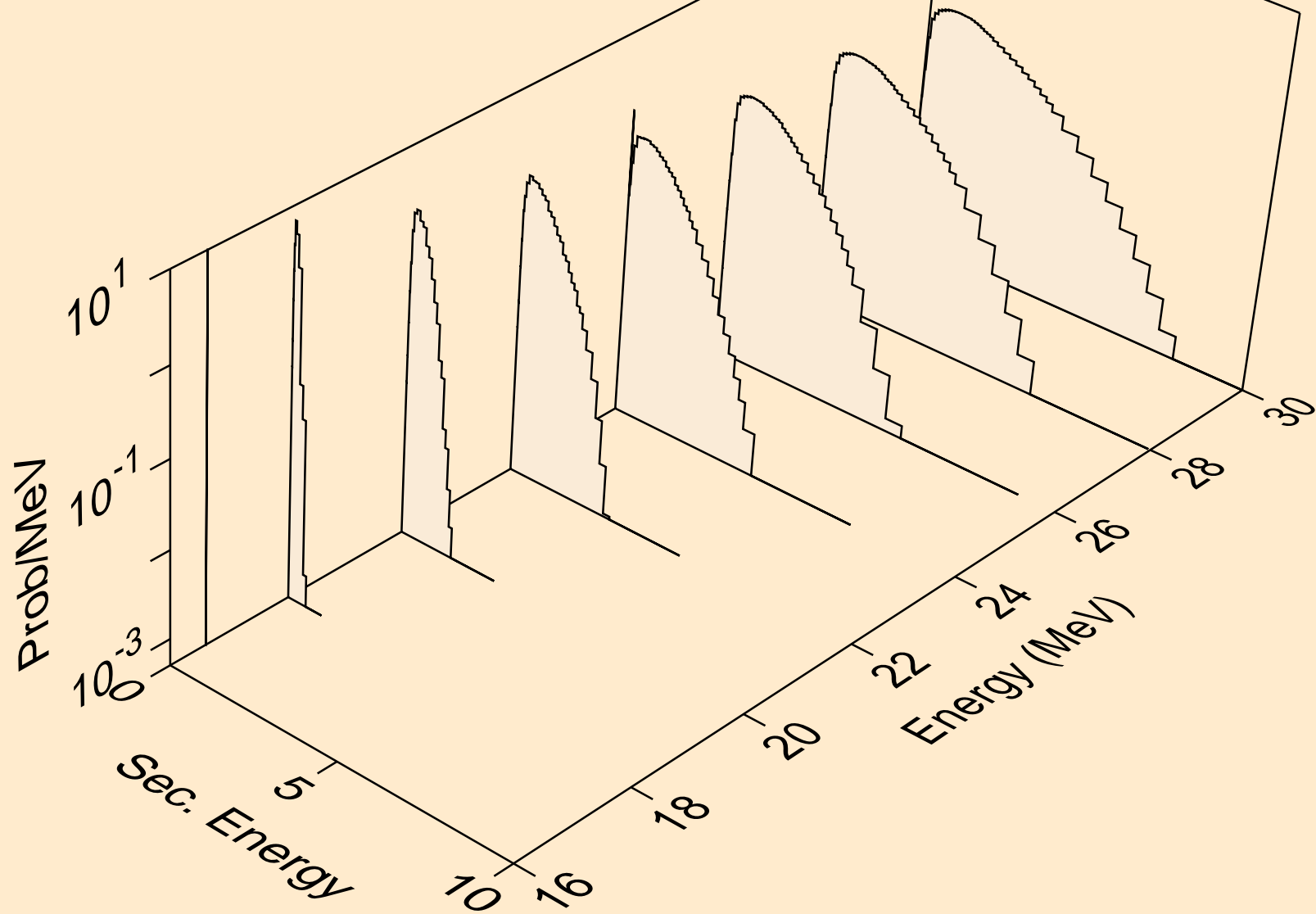
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



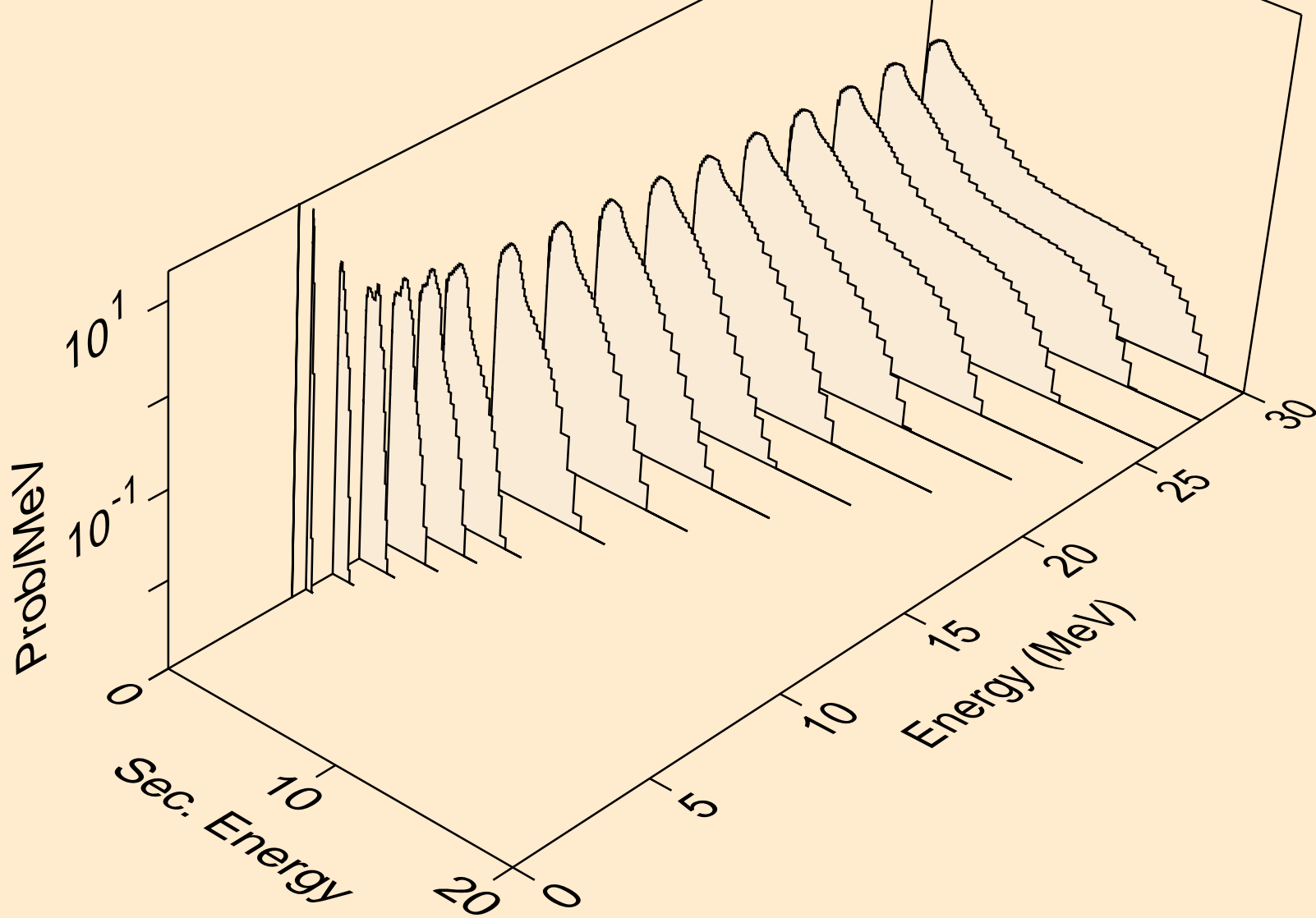
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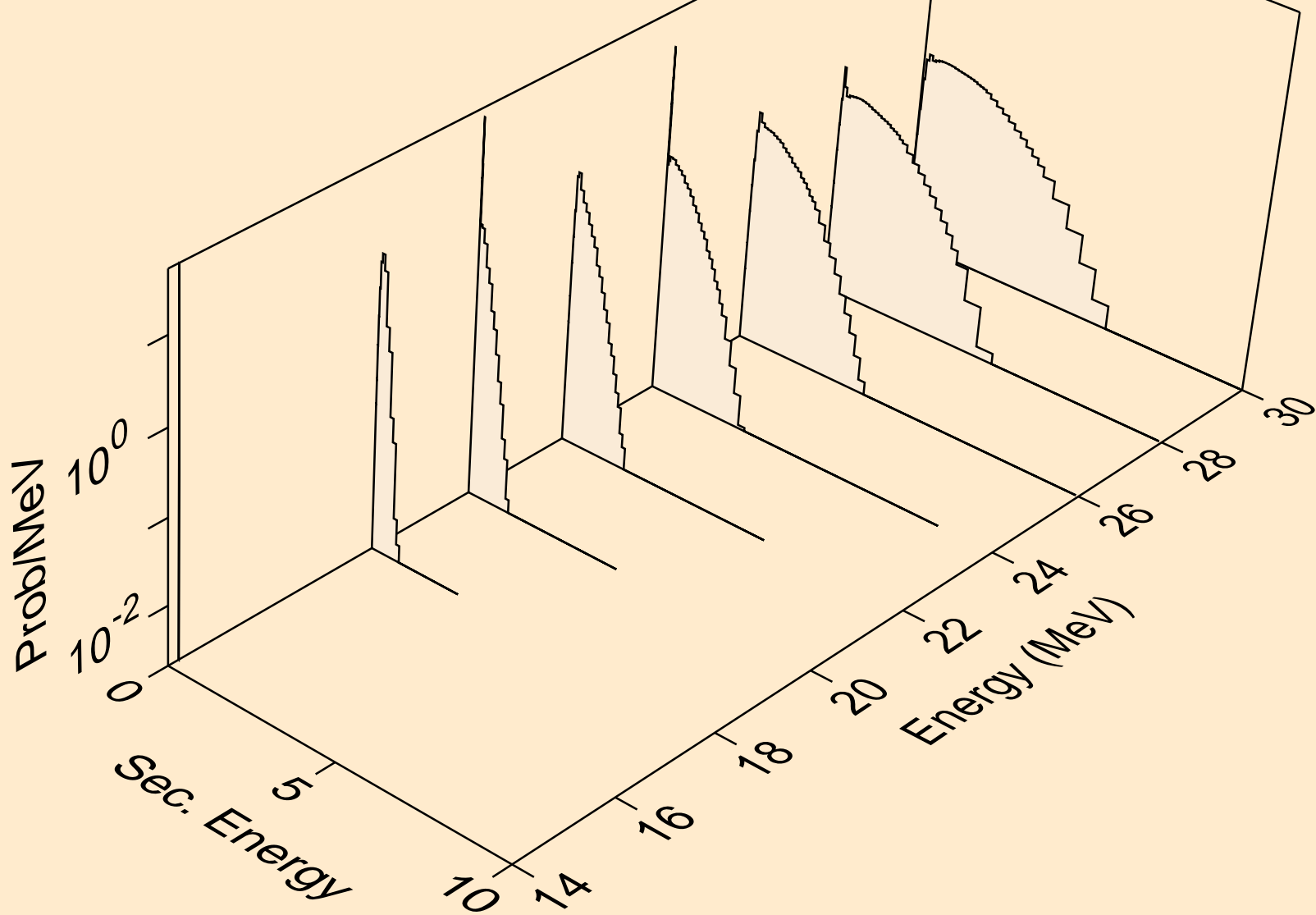
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p

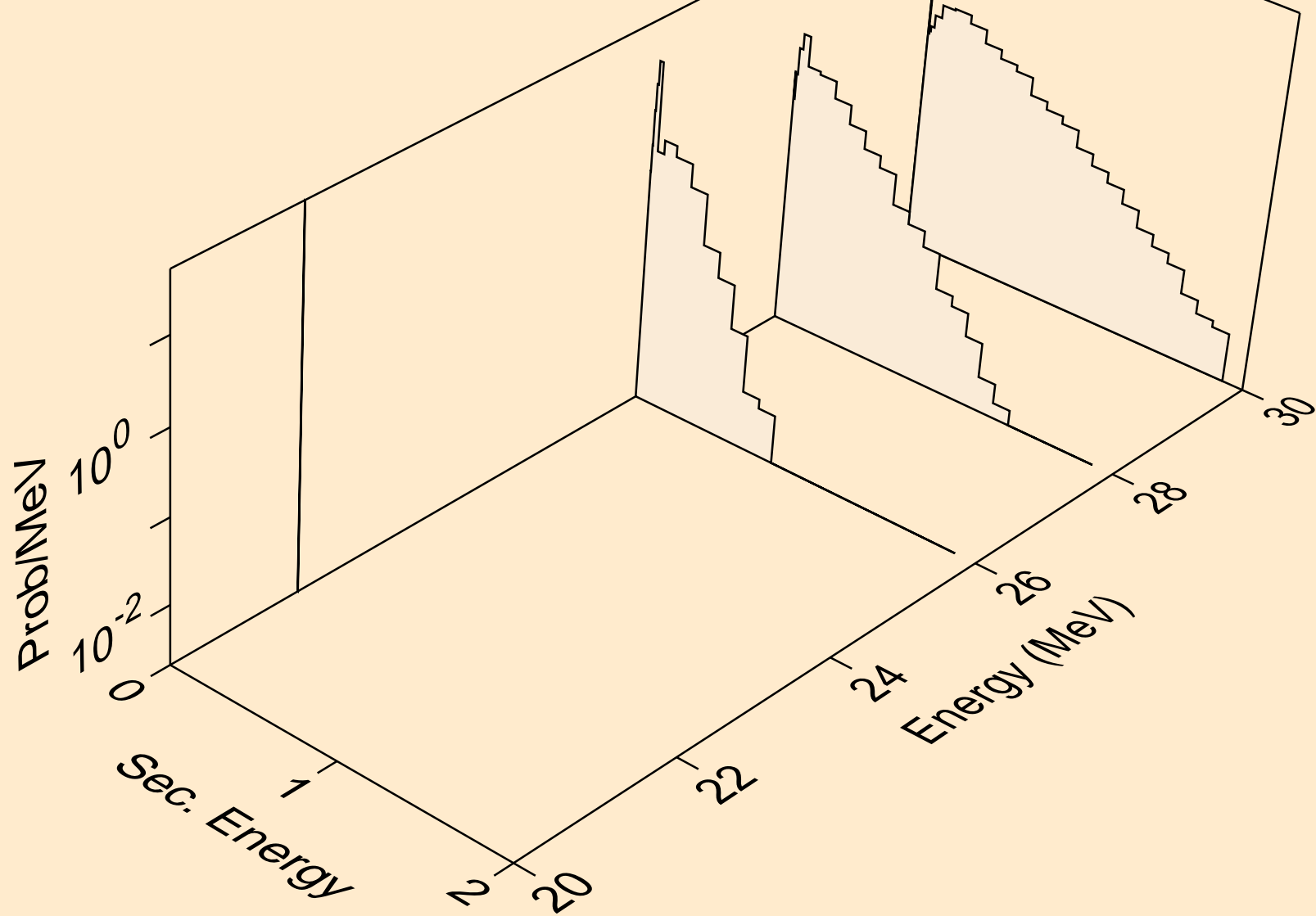


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neutrons from (p,n\*)2a

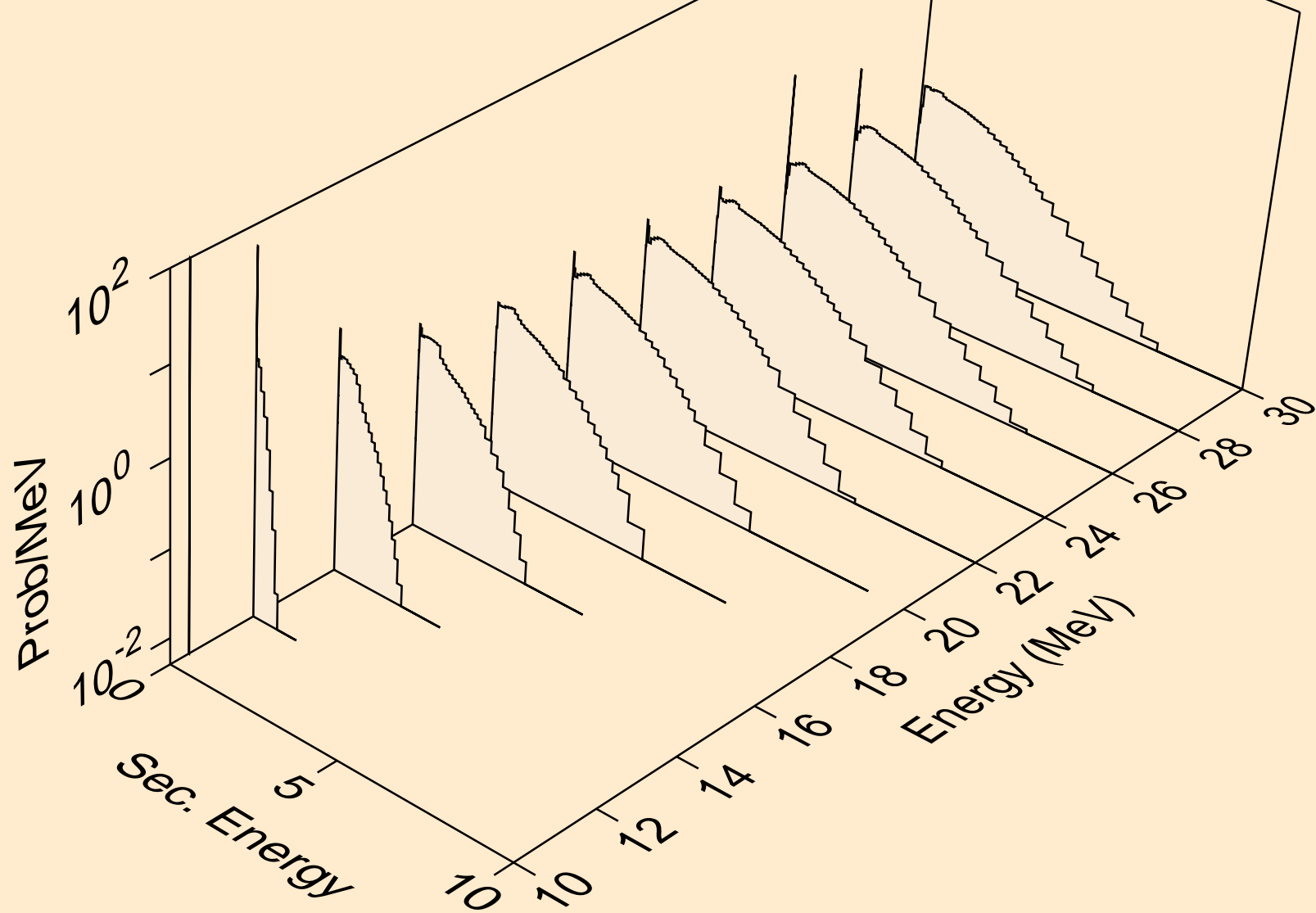




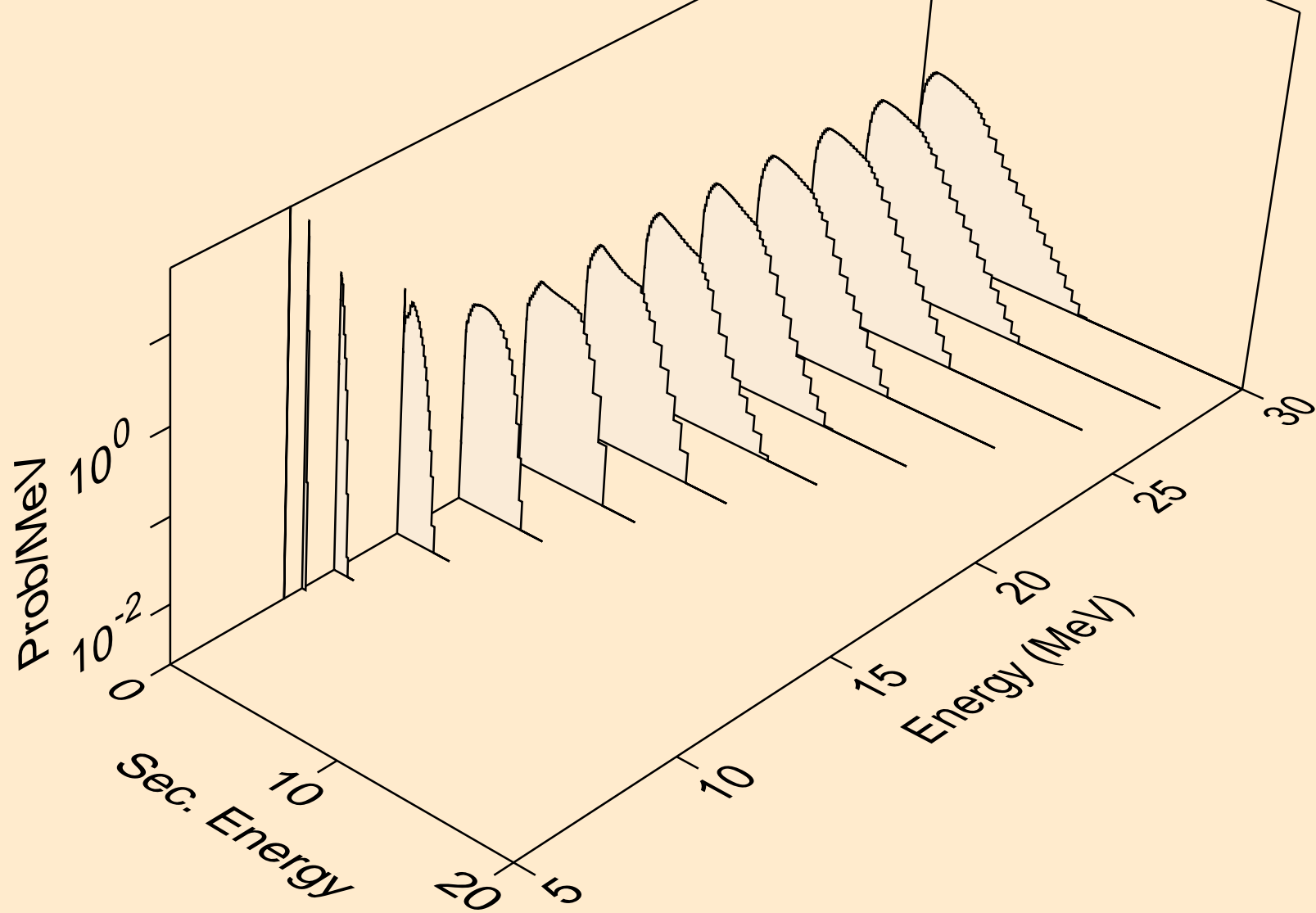
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neutrons from (p,2n)2a



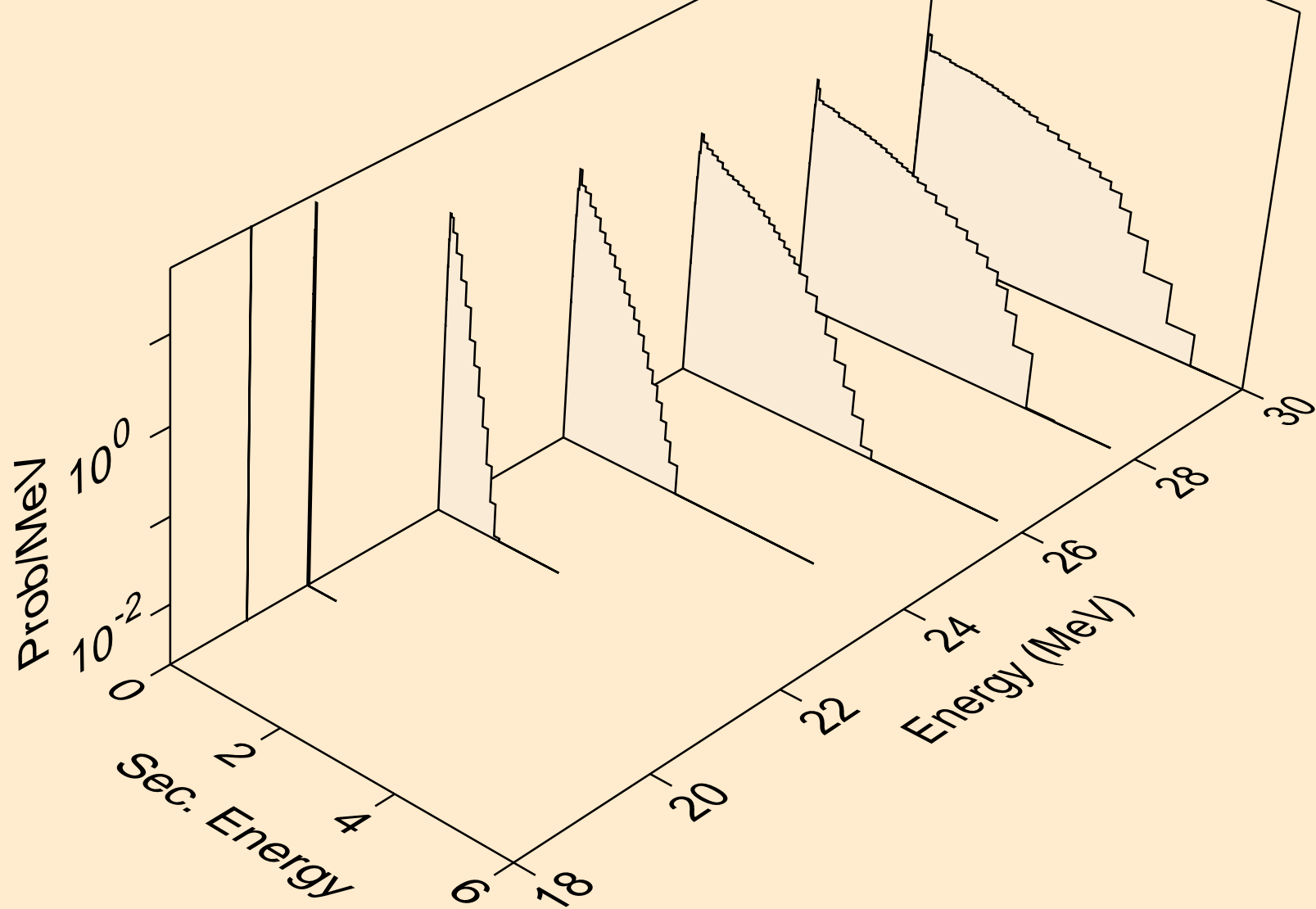
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d



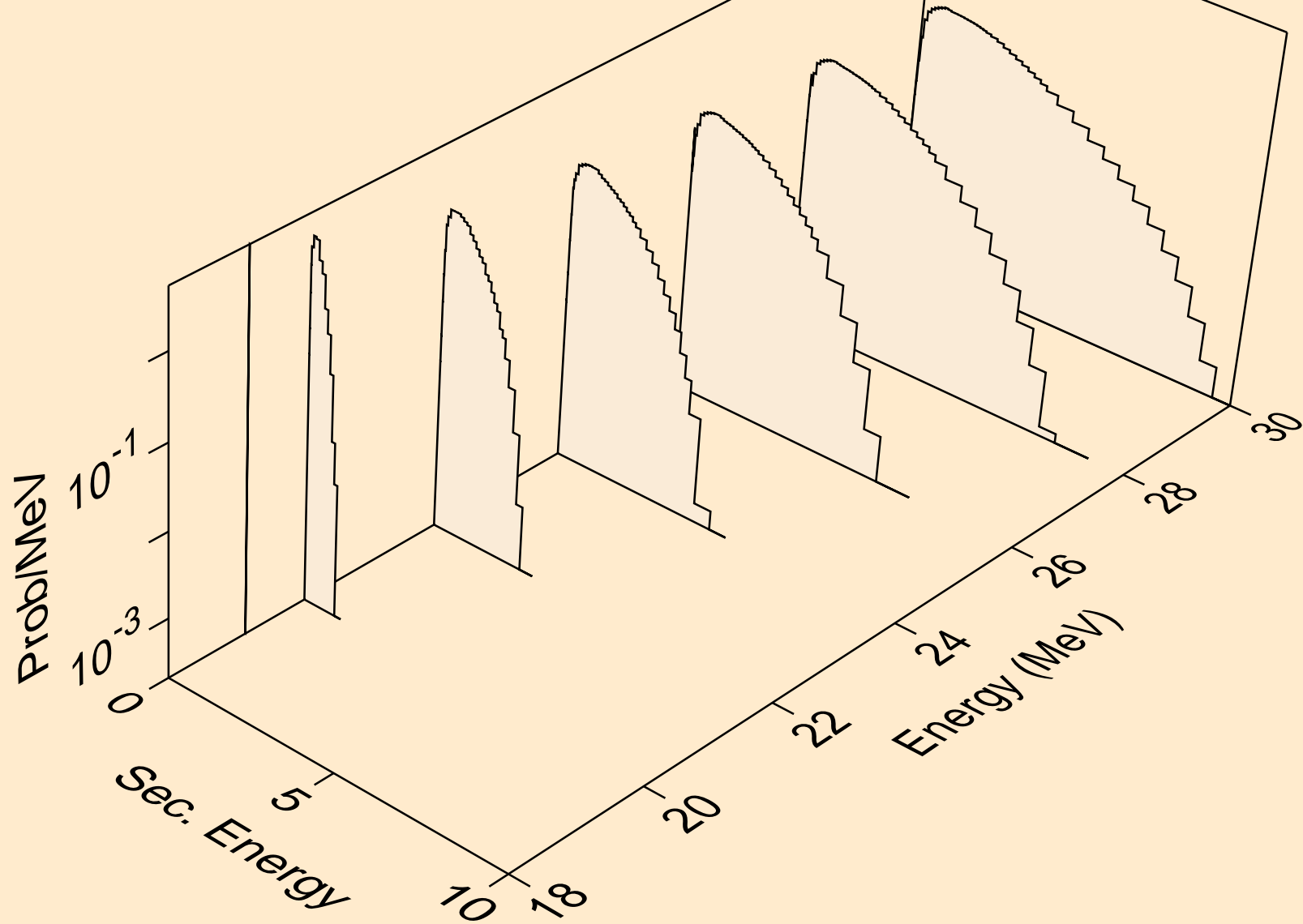
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neutrons from (p,n\*)t



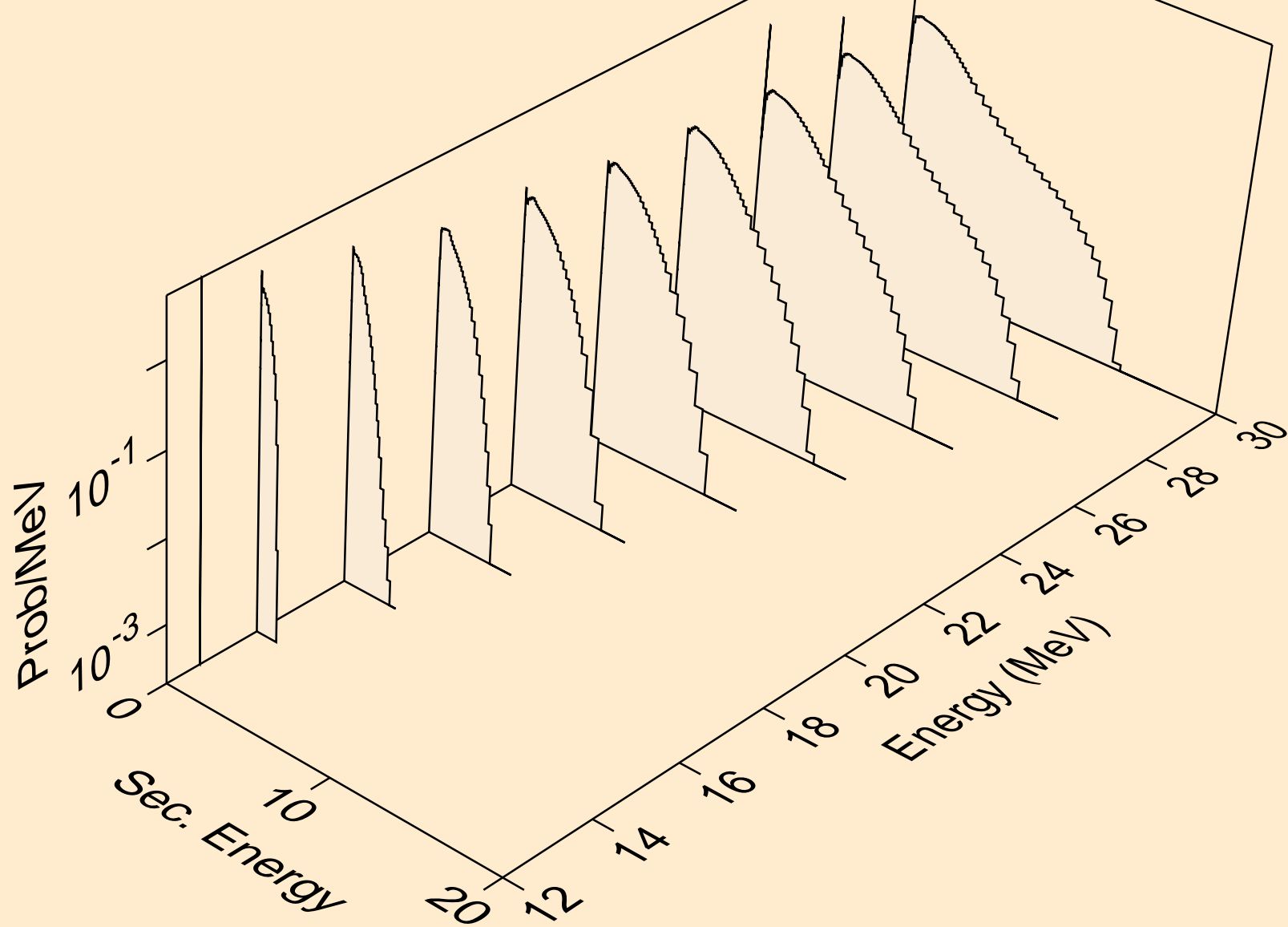
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neutrons from (p,n\*)he3



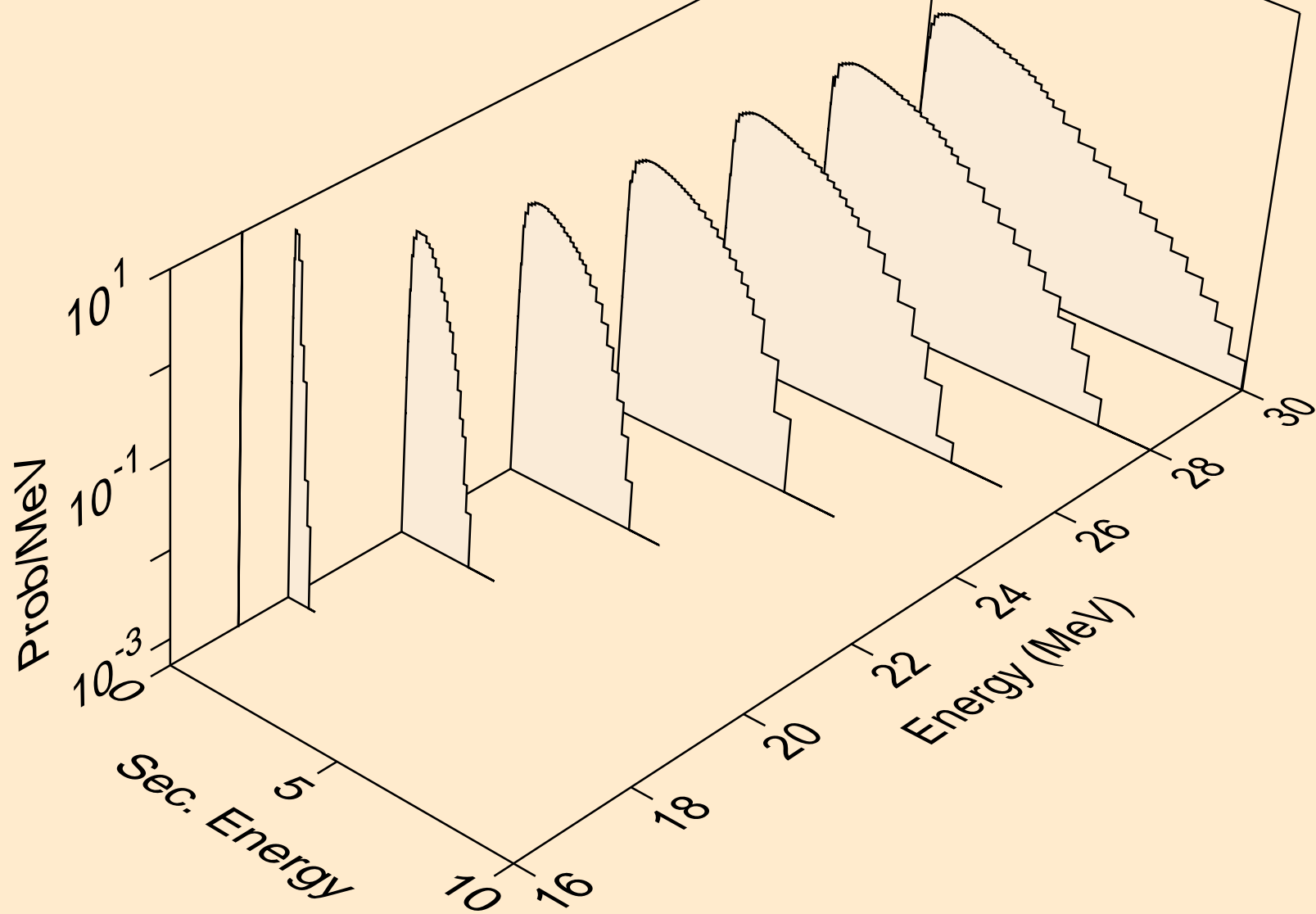
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neutrons from (p,4n)



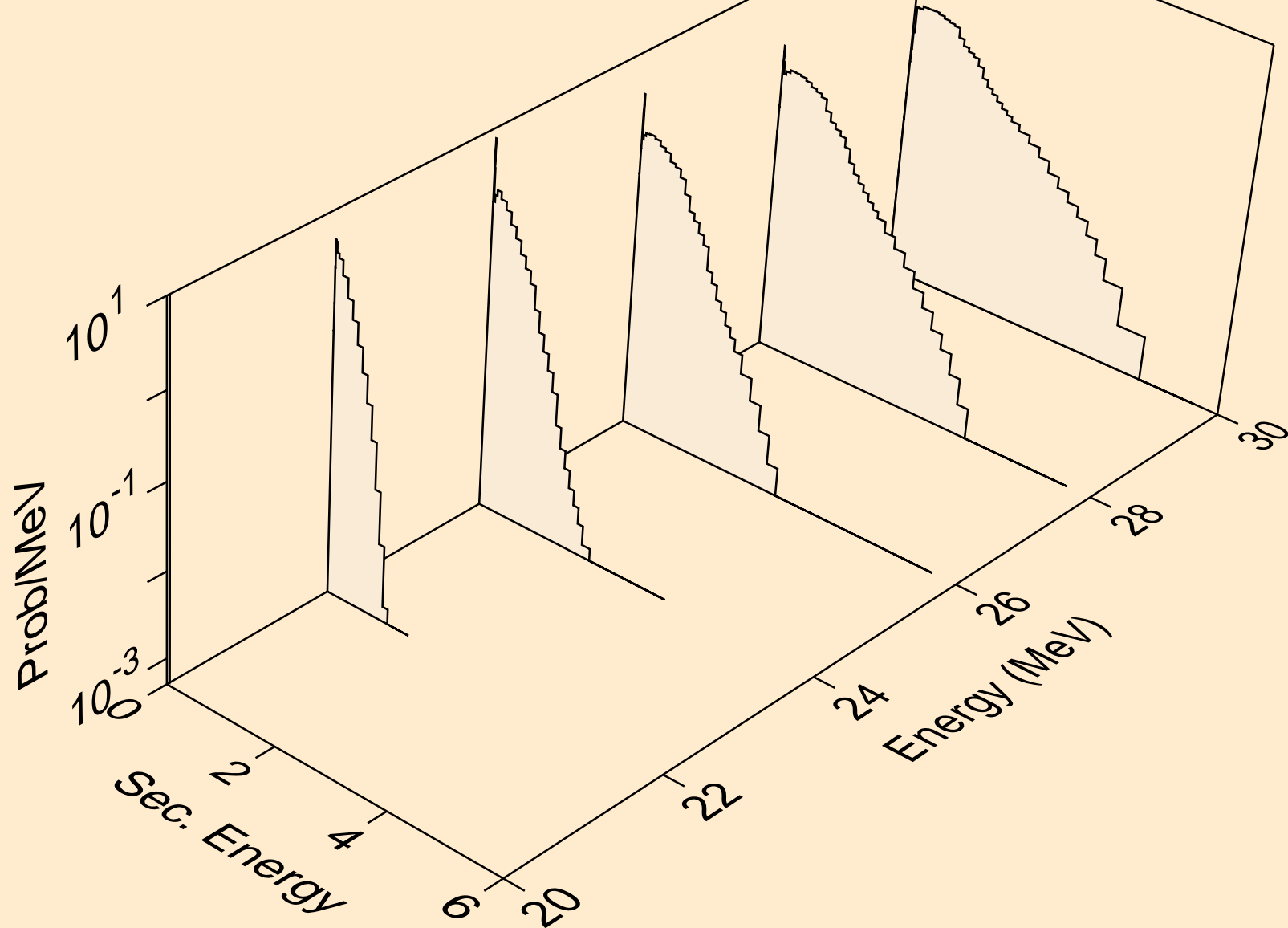
S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)

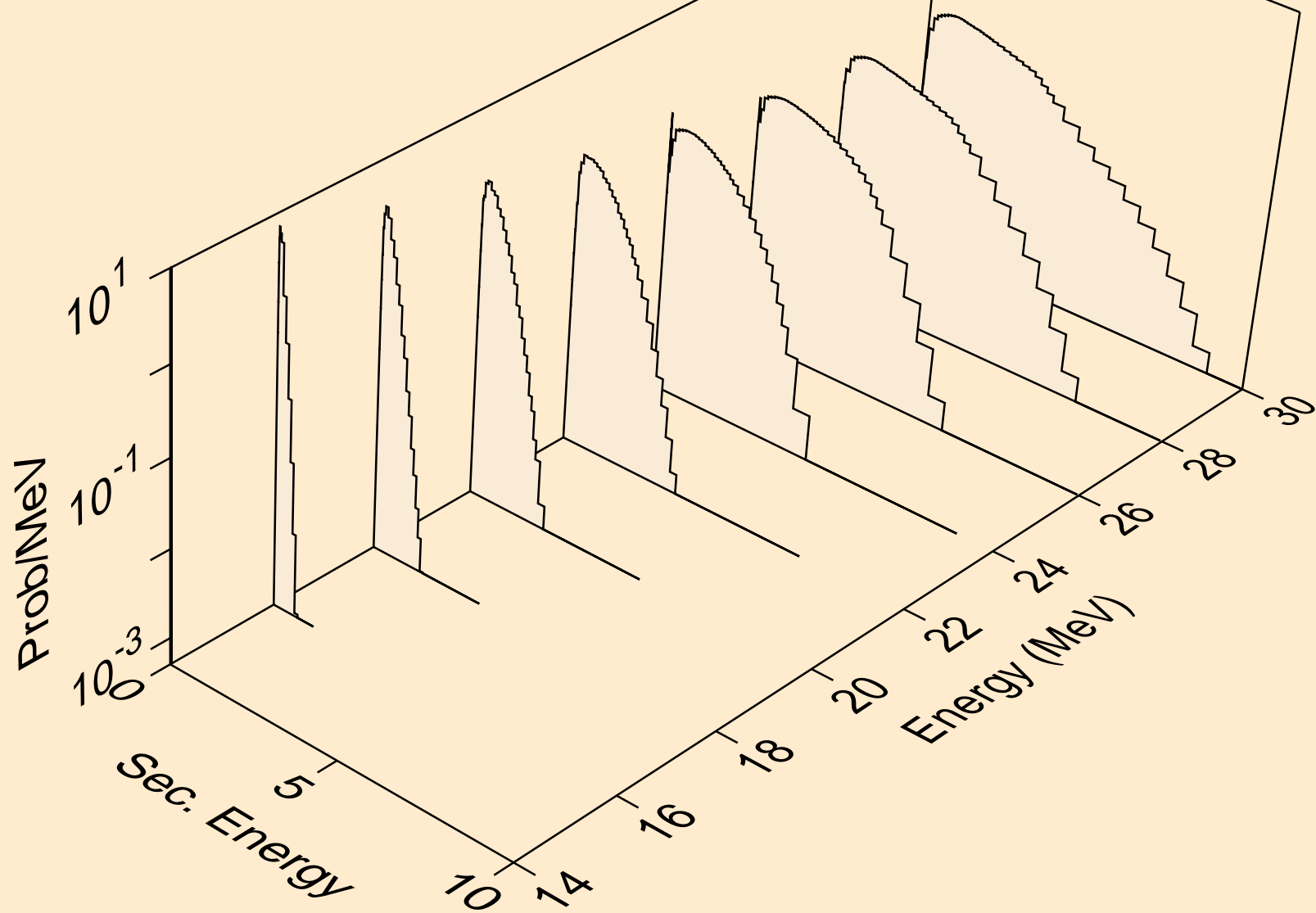


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neutrons from (p,n2p)

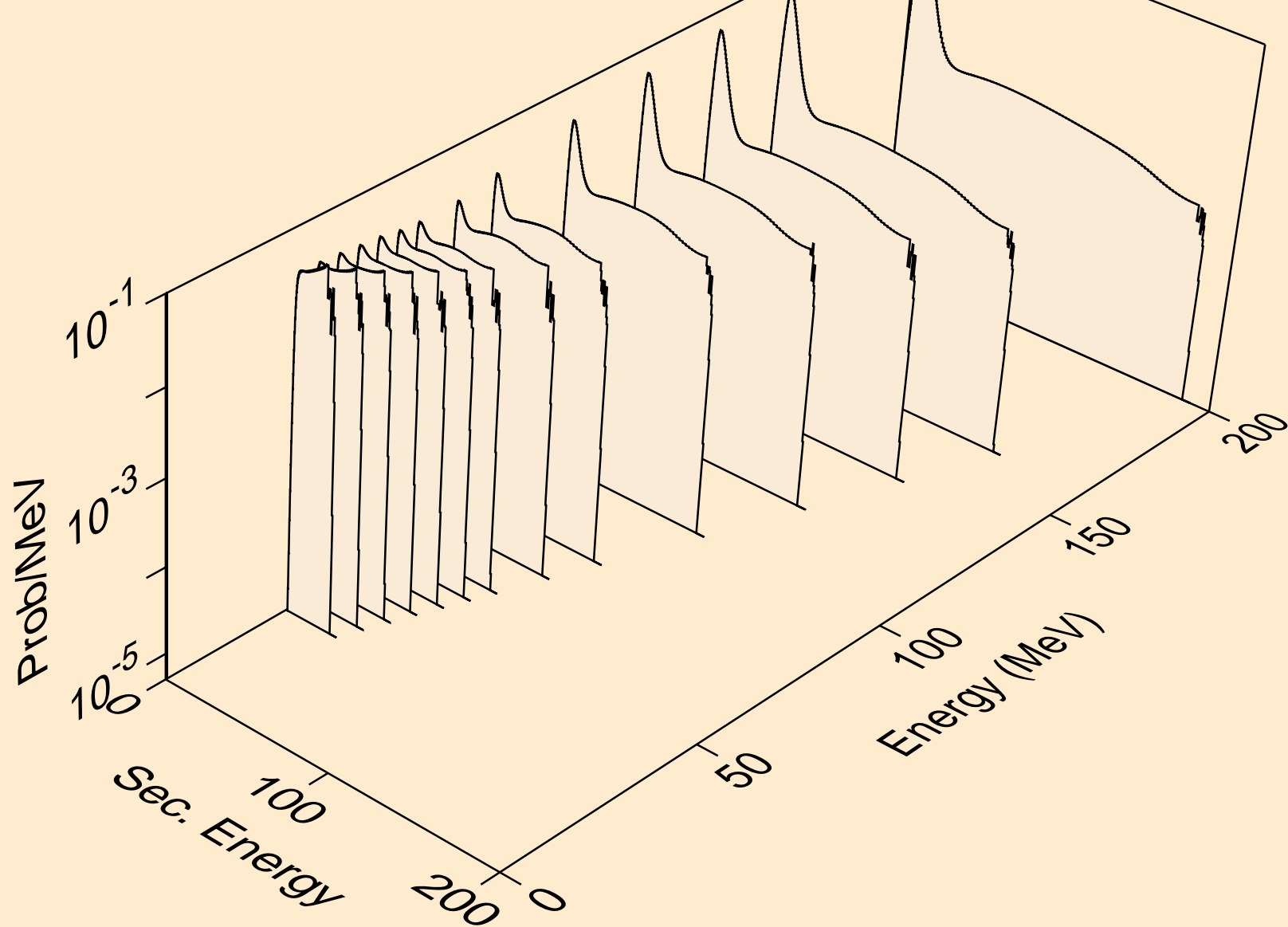




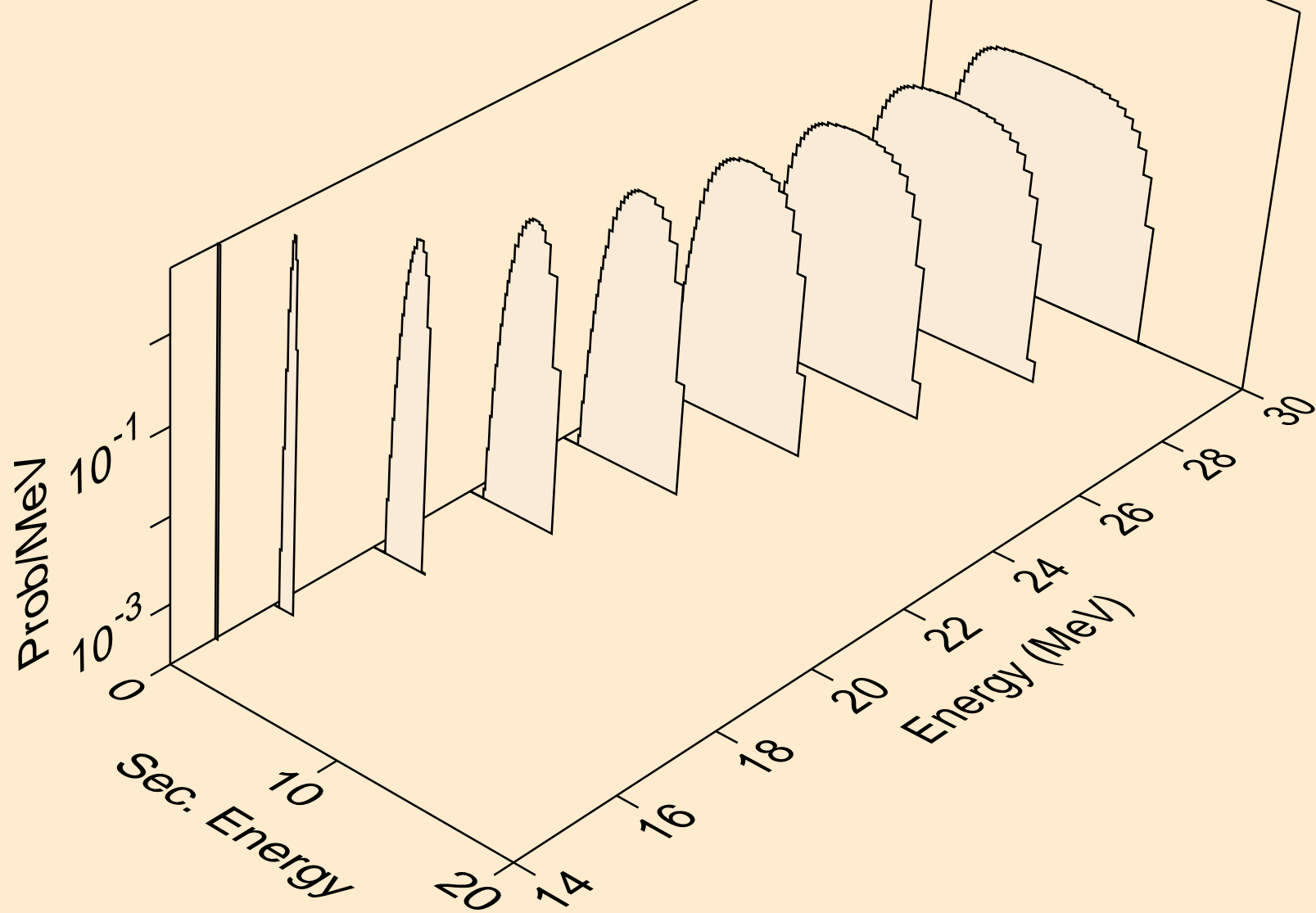
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neutrons from (p,npa)



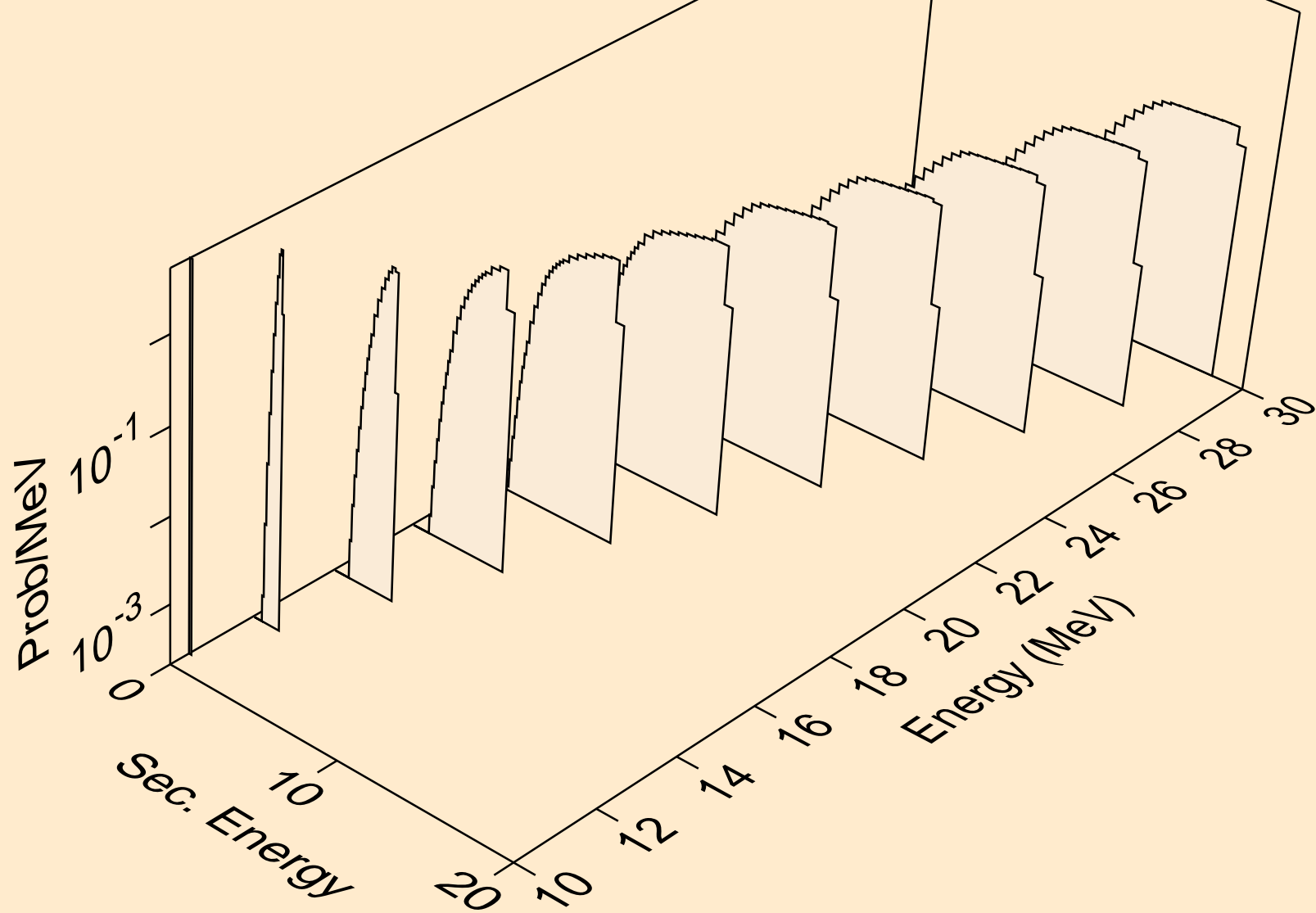
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deuterons from (p,x)



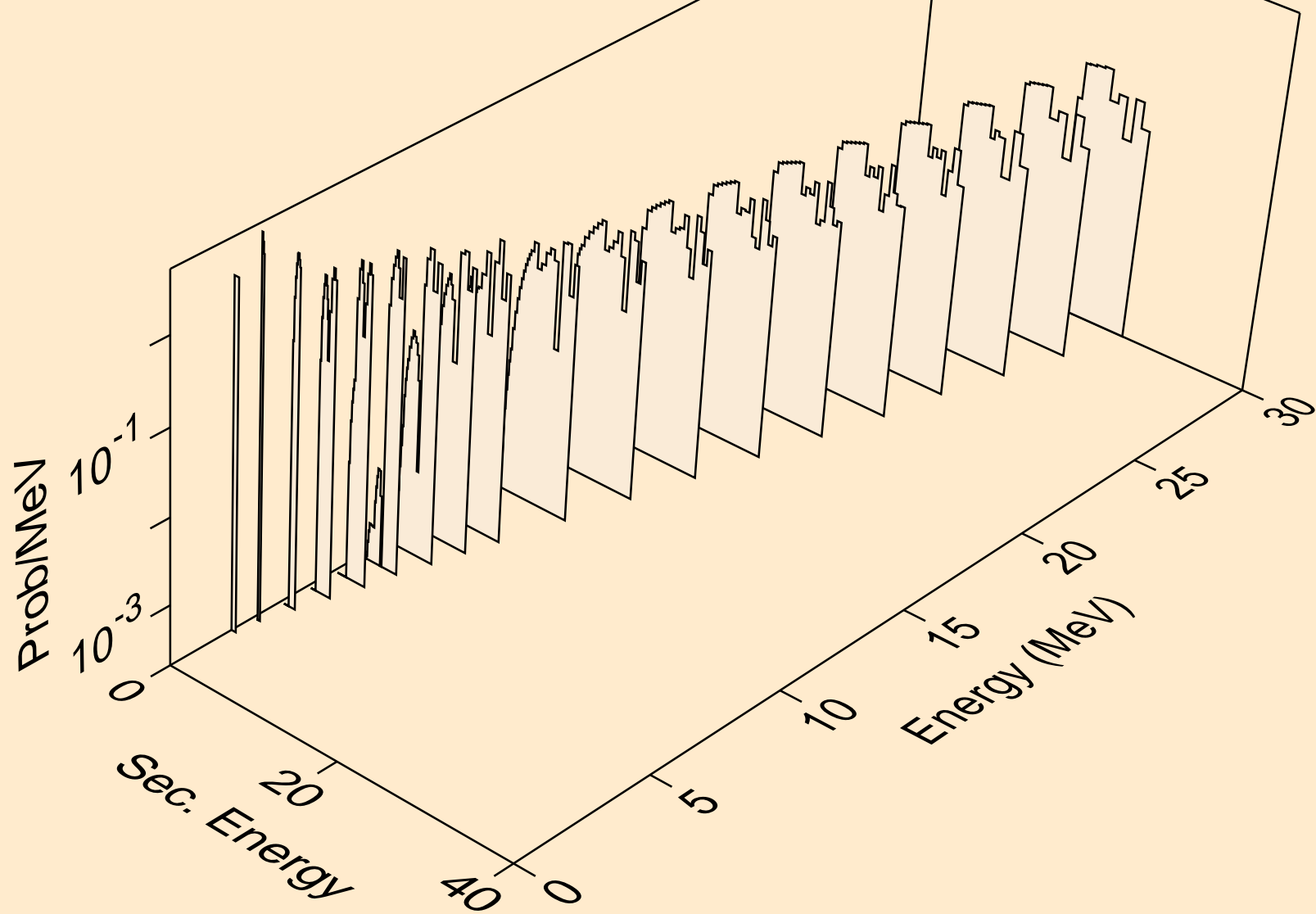
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deuterons from (p,2nd)



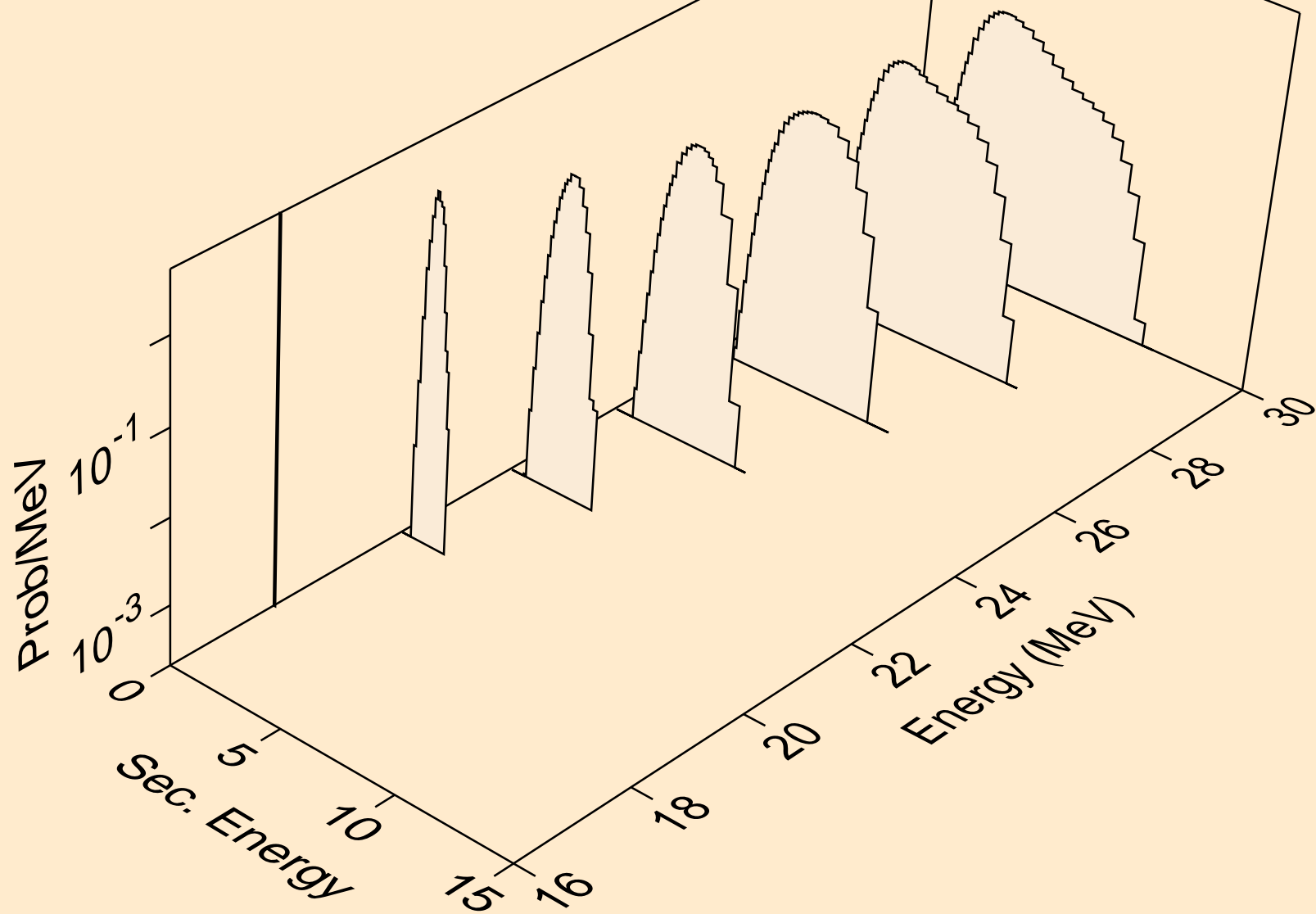
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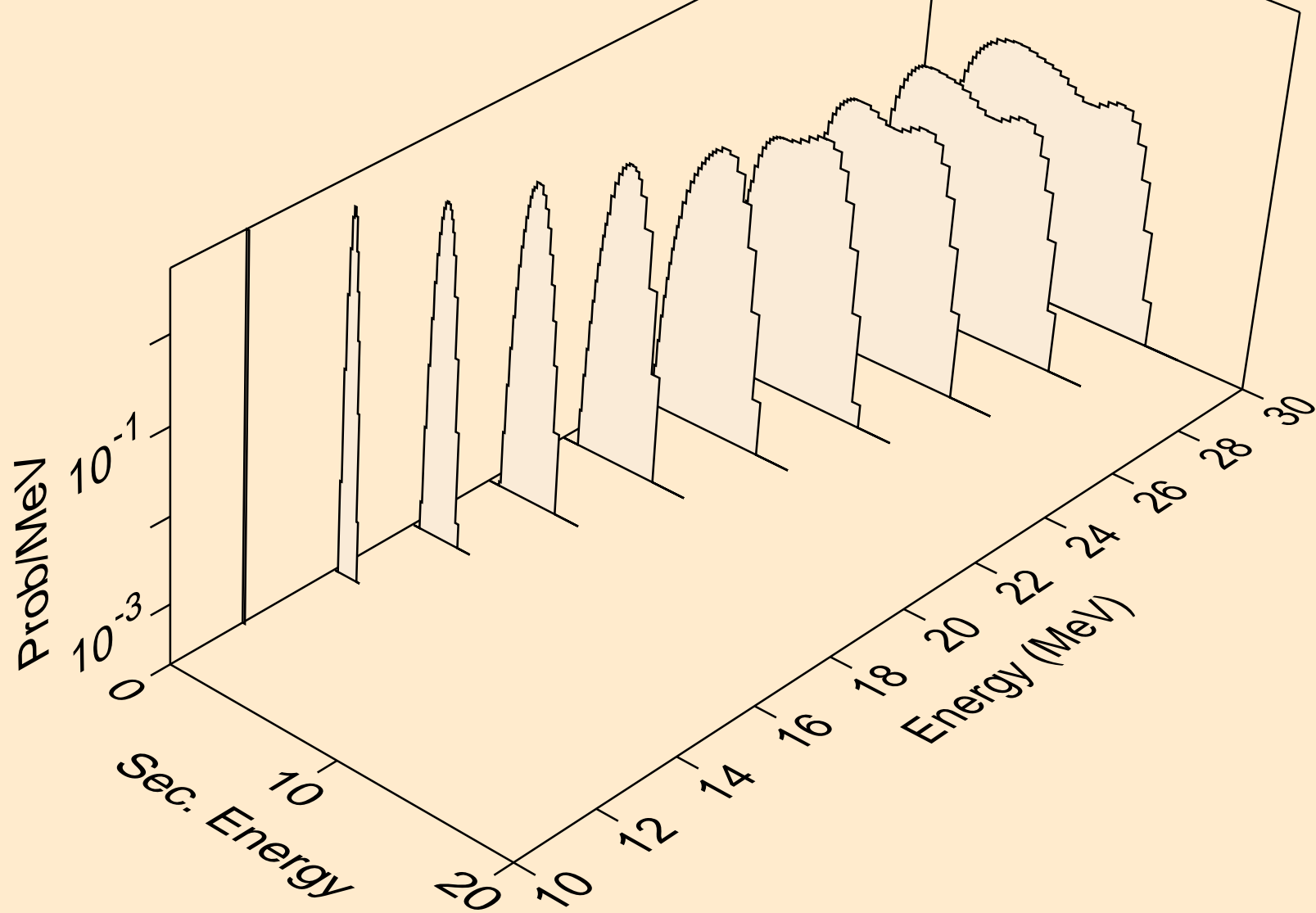
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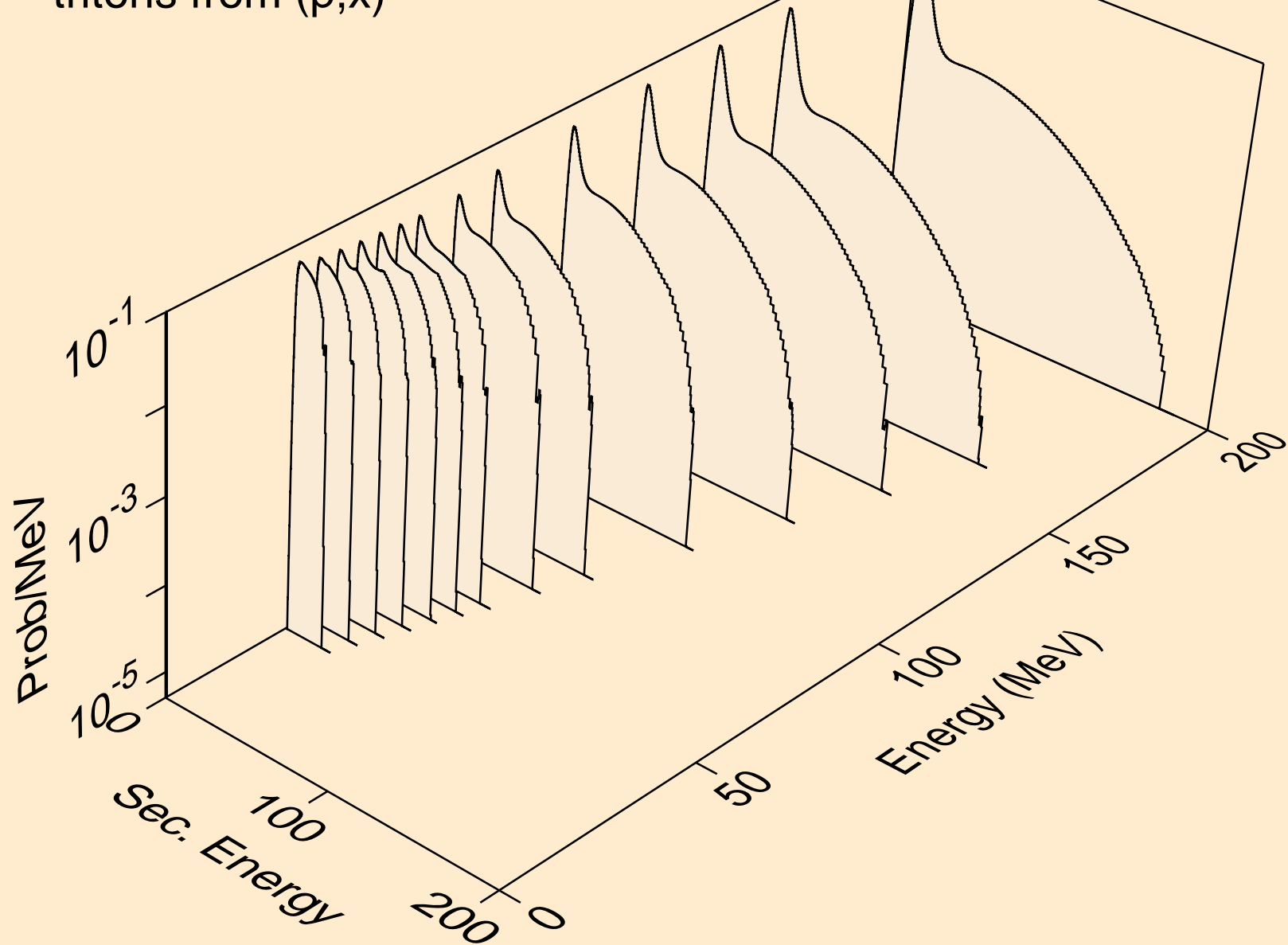
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deuterons from (p,pd)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

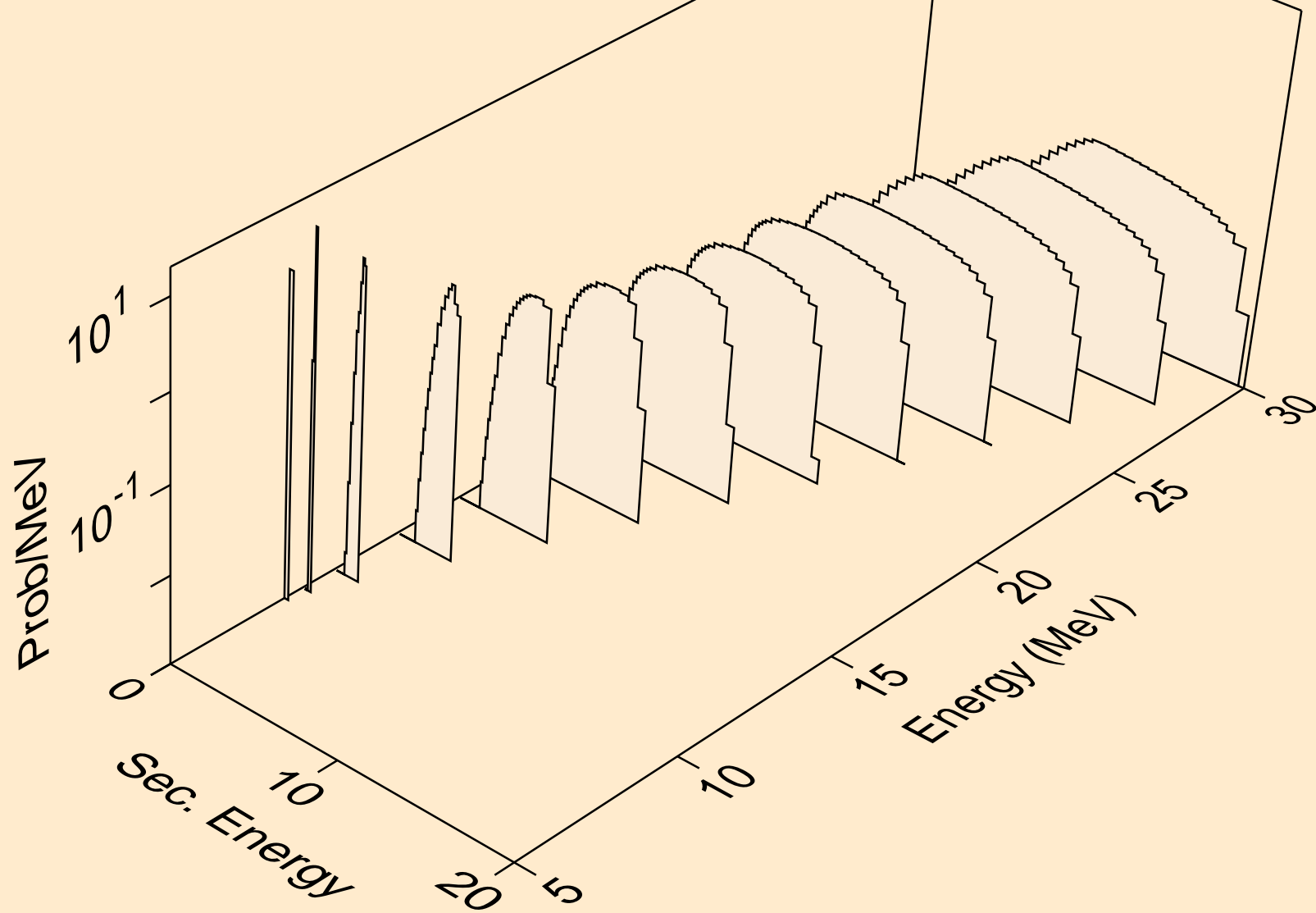


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tritons from (p,x)

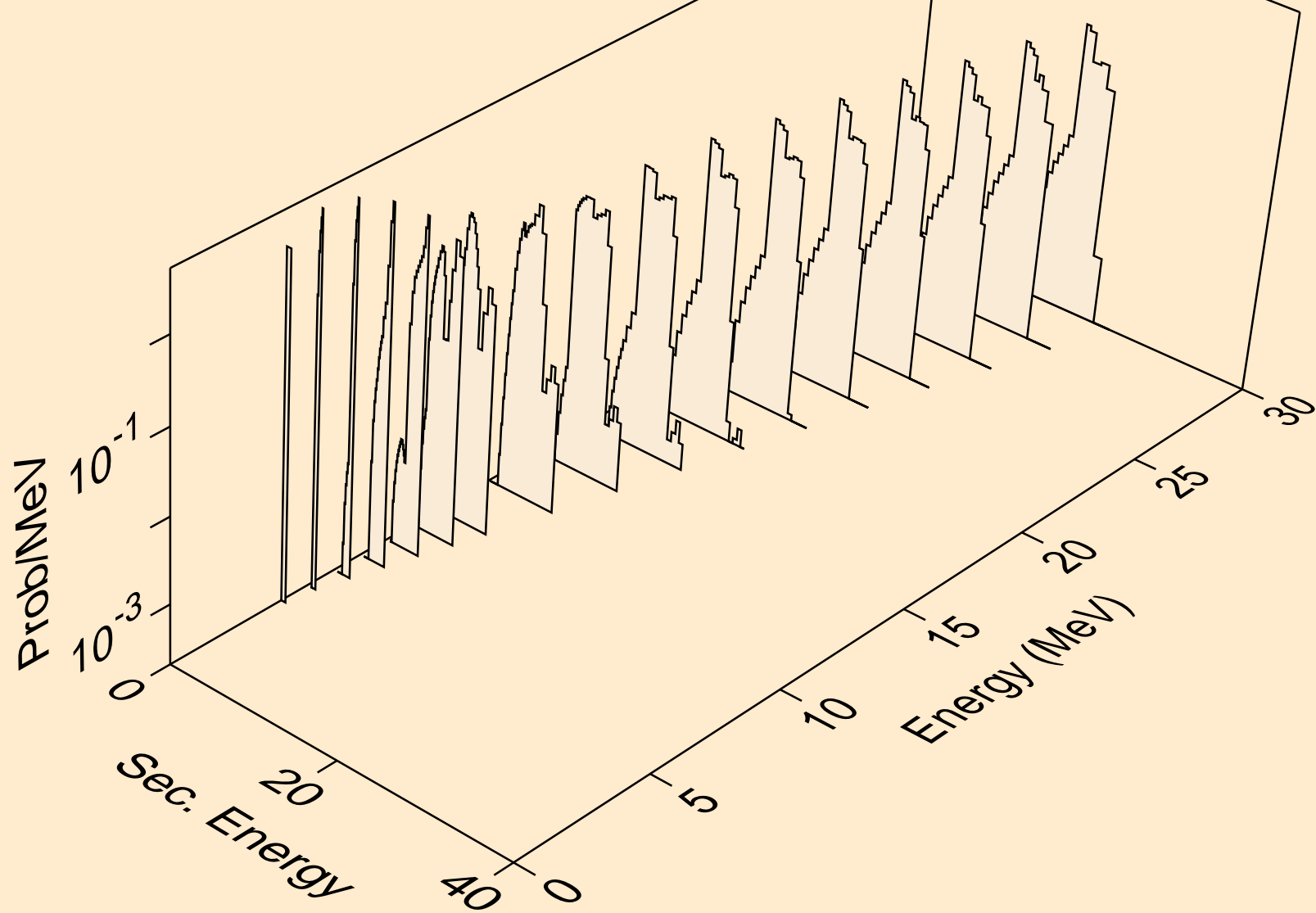




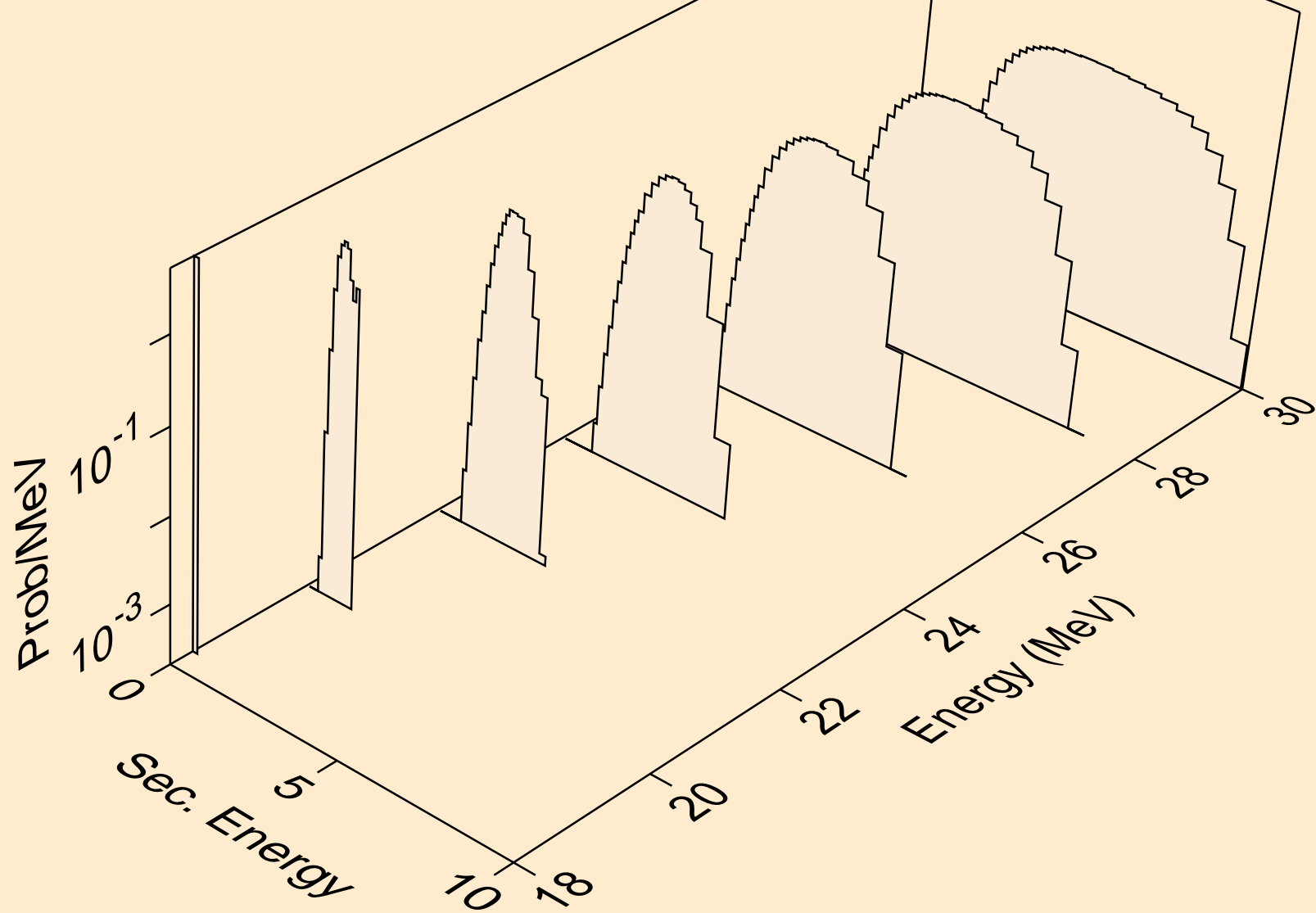
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tritons from (p,n\*)t



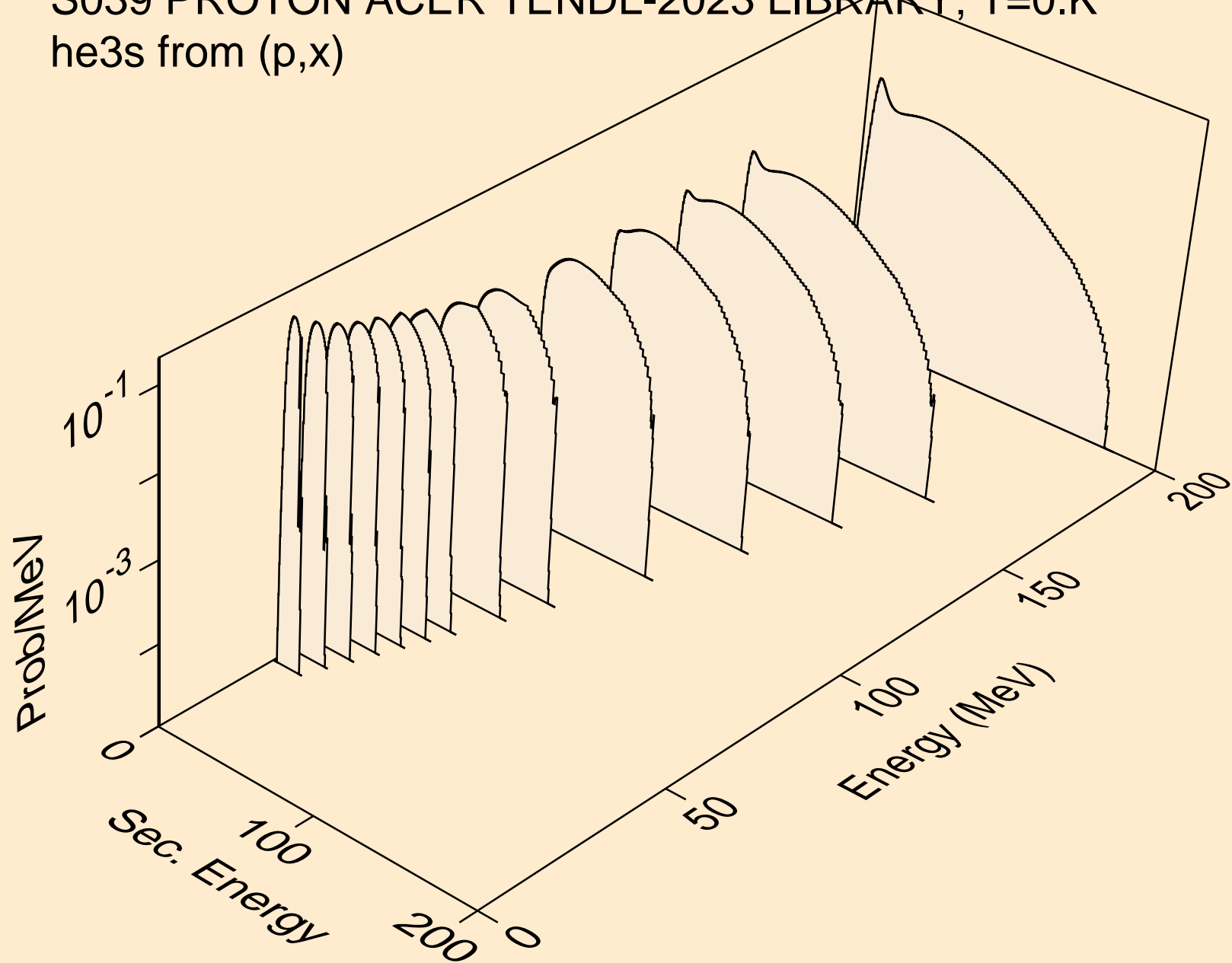
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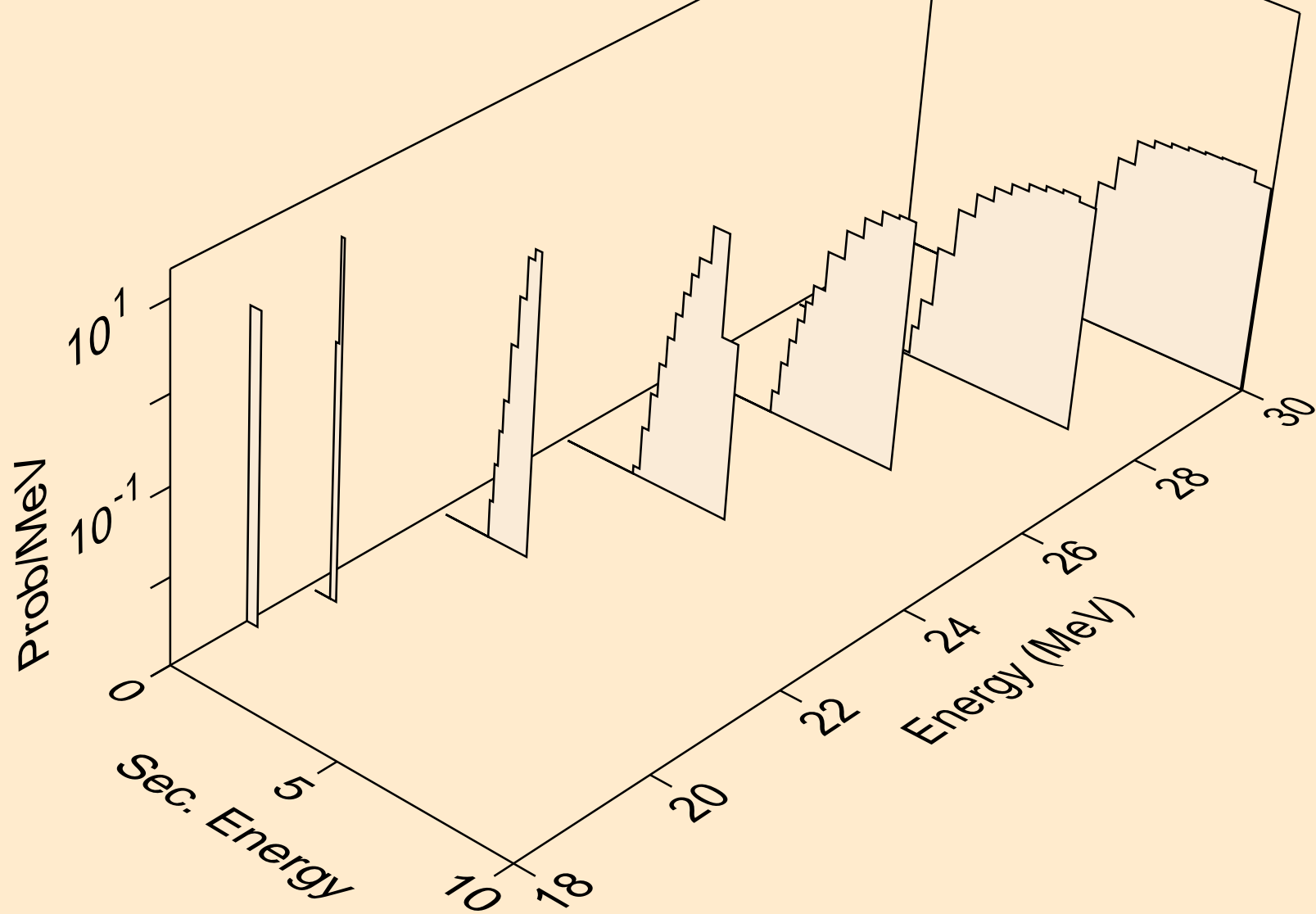
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tritons from (p,pt)



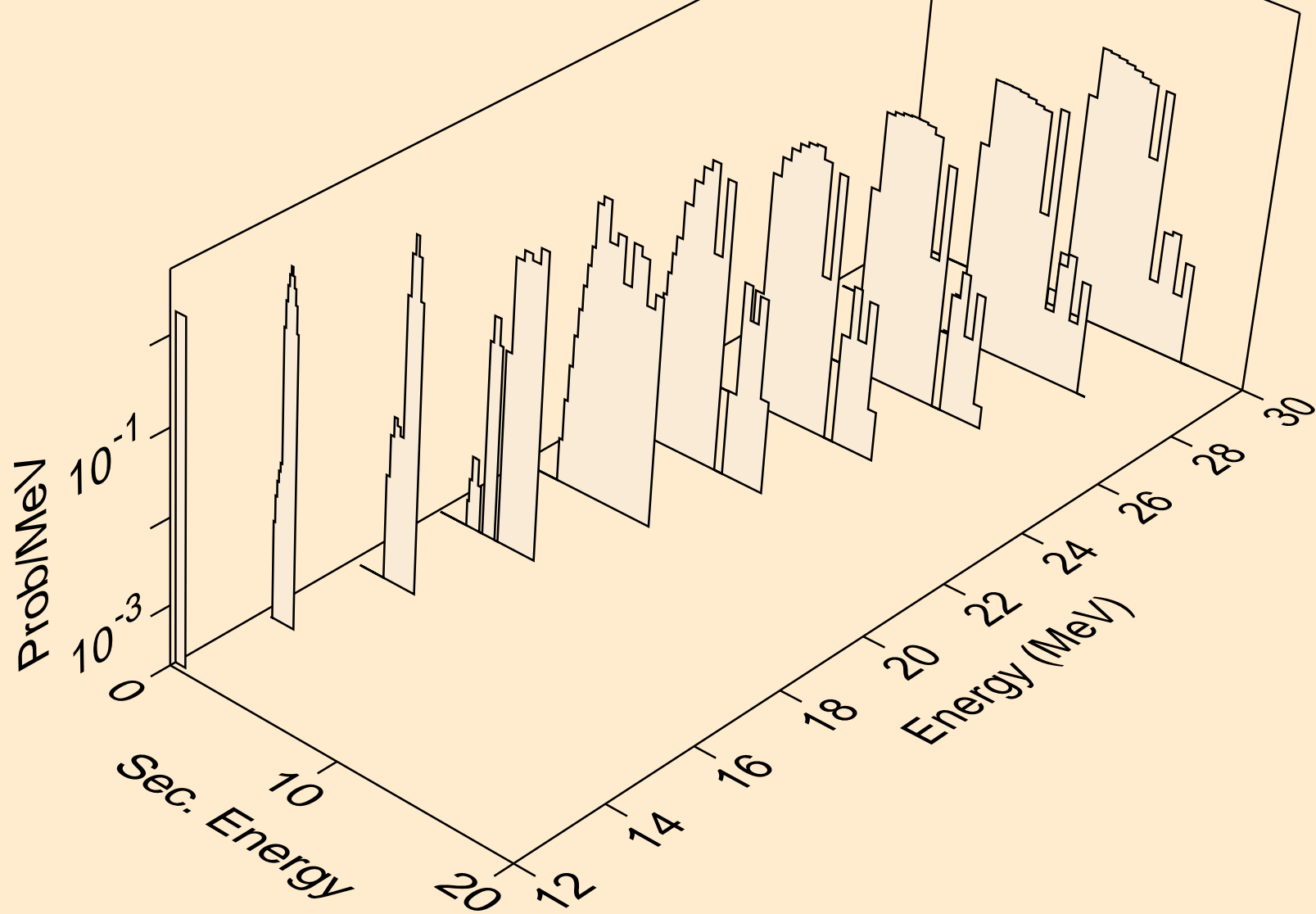
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he3s from (p,x)



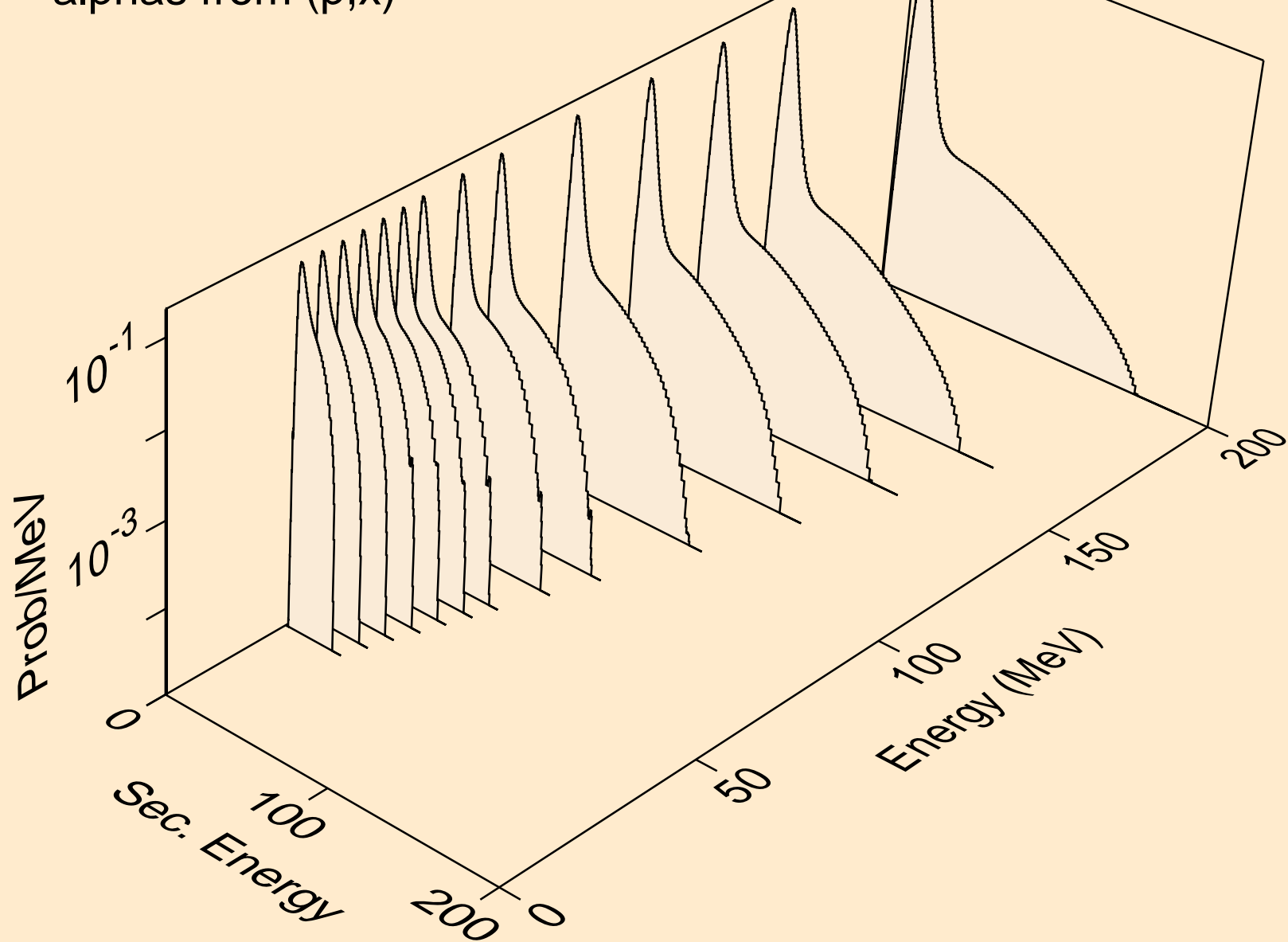
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he3s from (p,n\*)he3



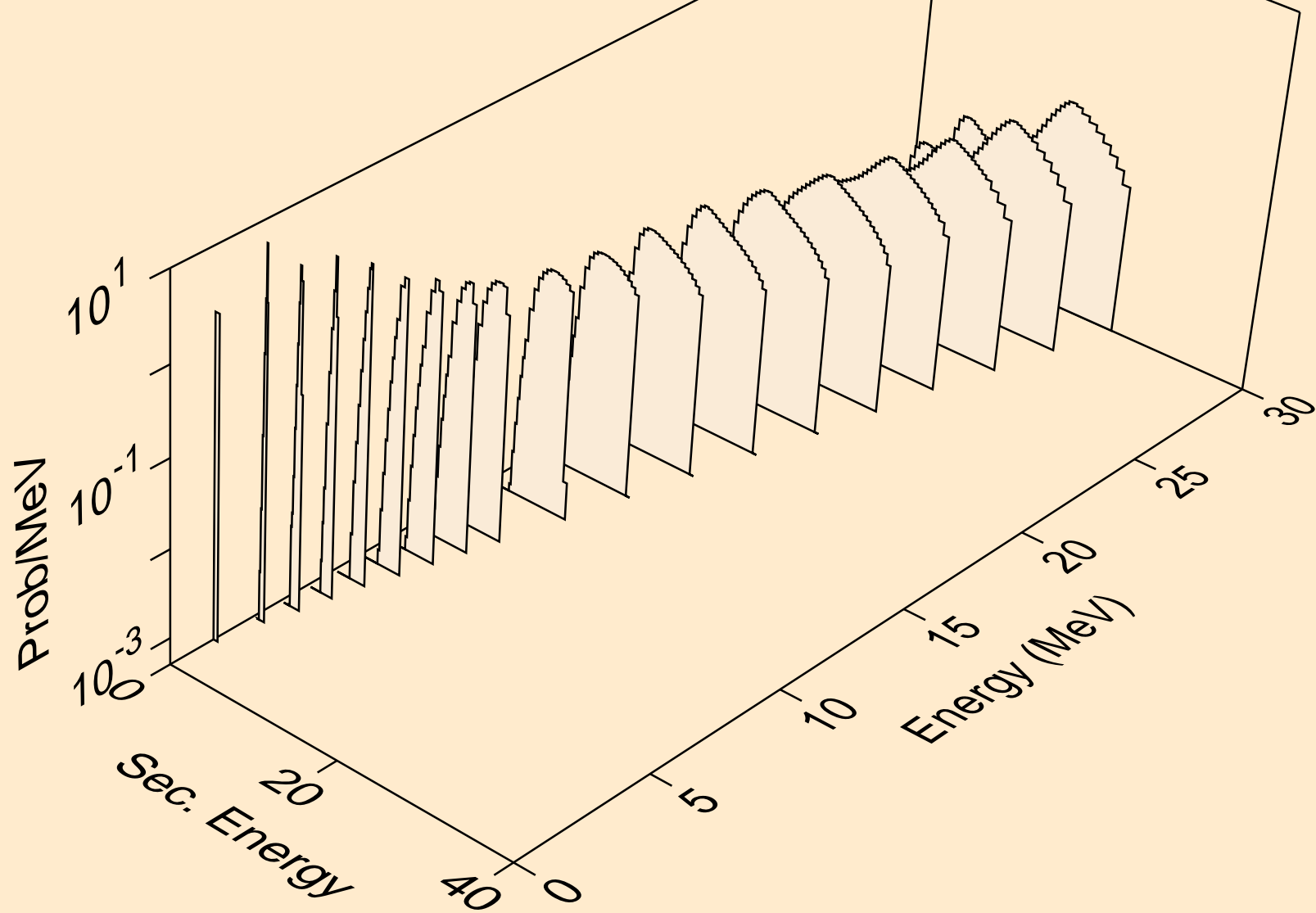
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he3s from (p,he3)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

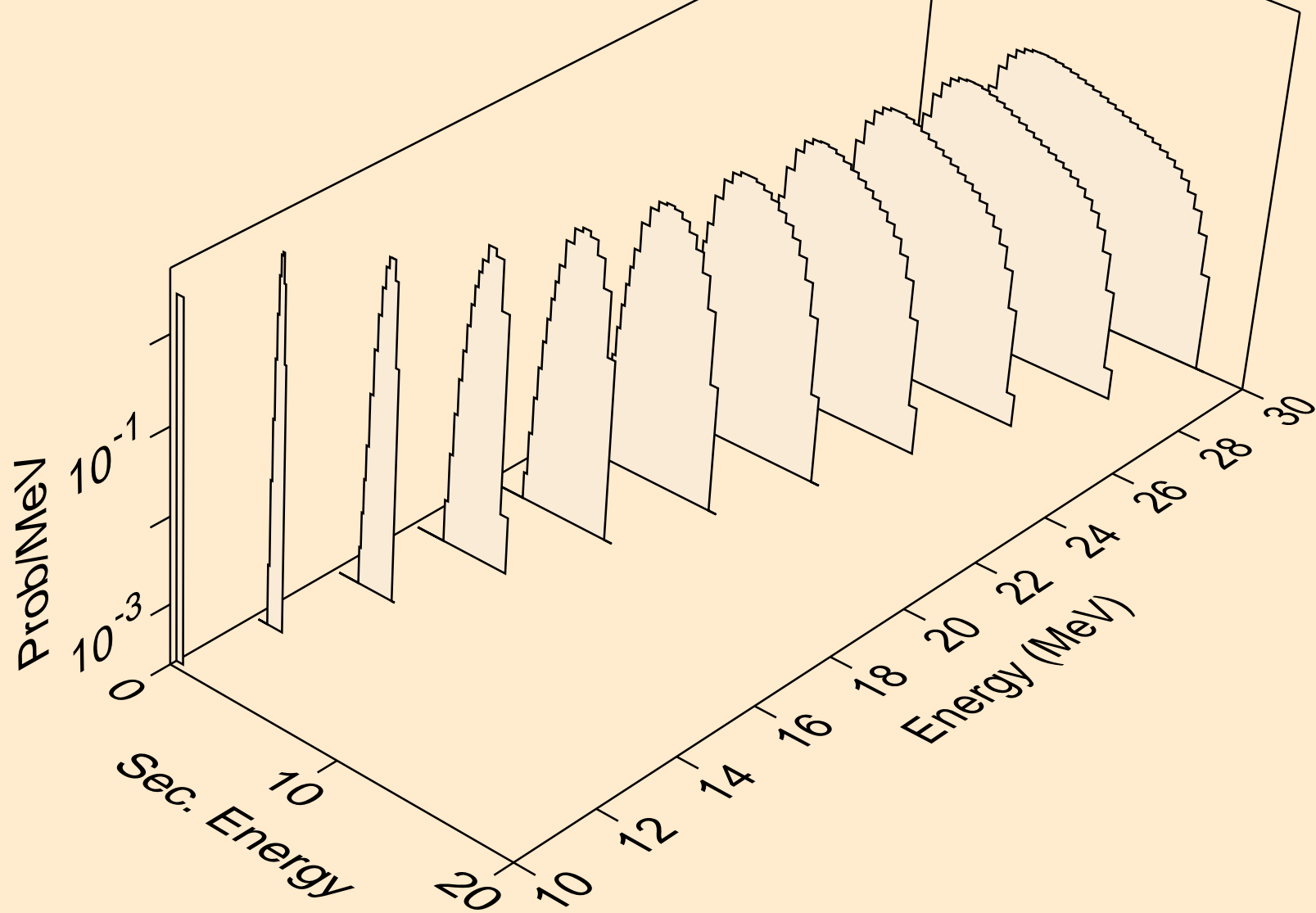


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alphas from (p,n\*)a

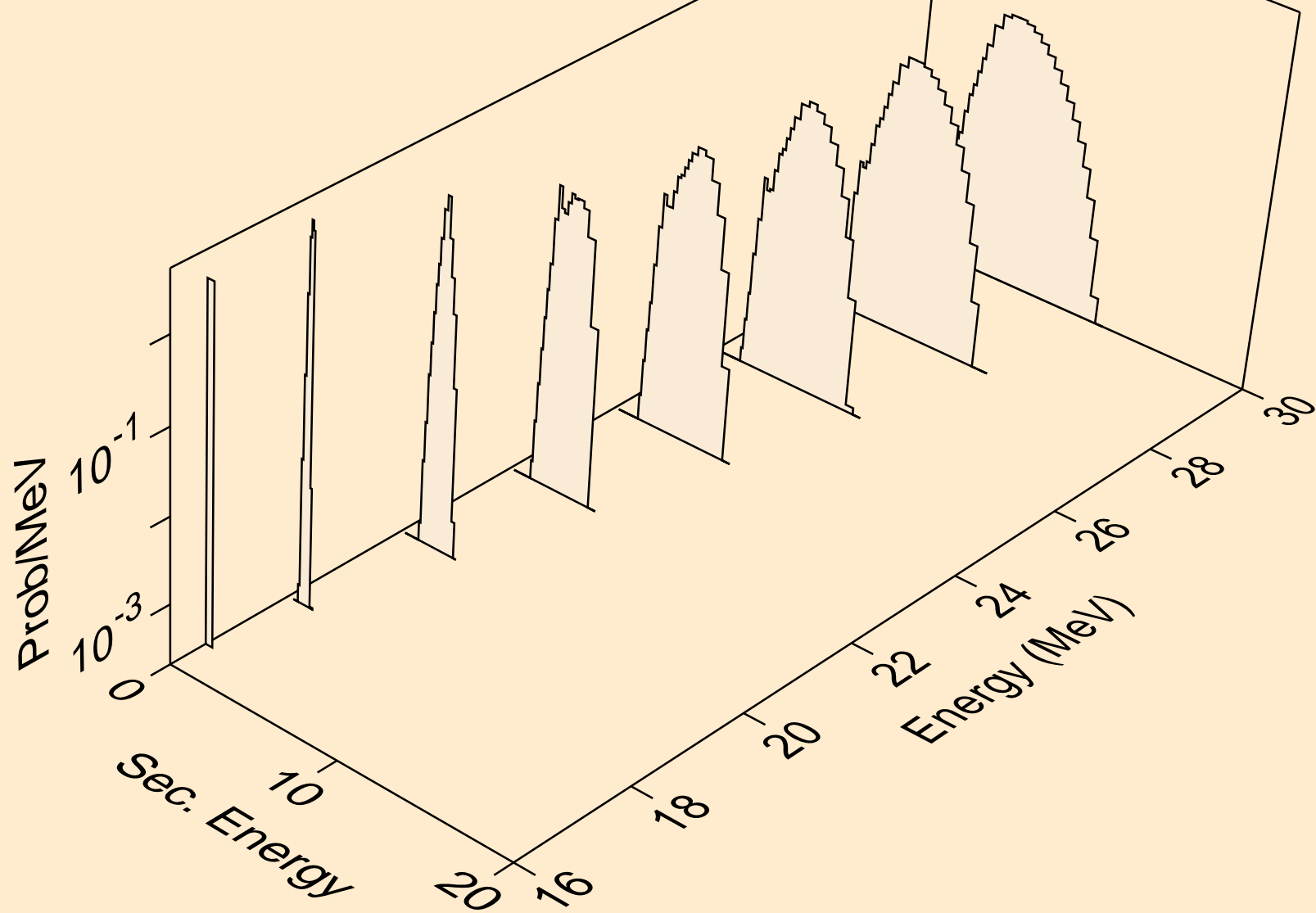




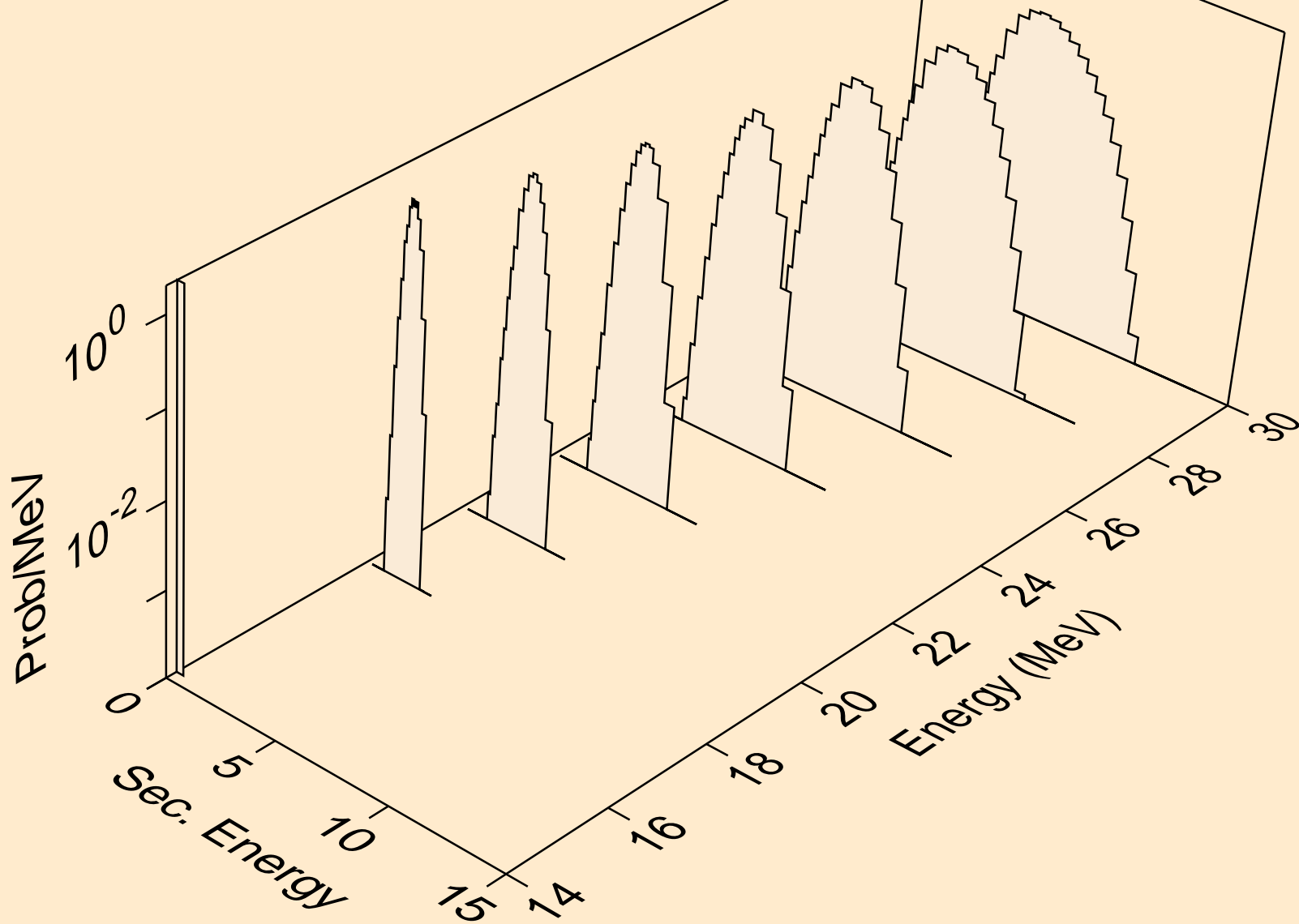
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alphas from (p,2n)a



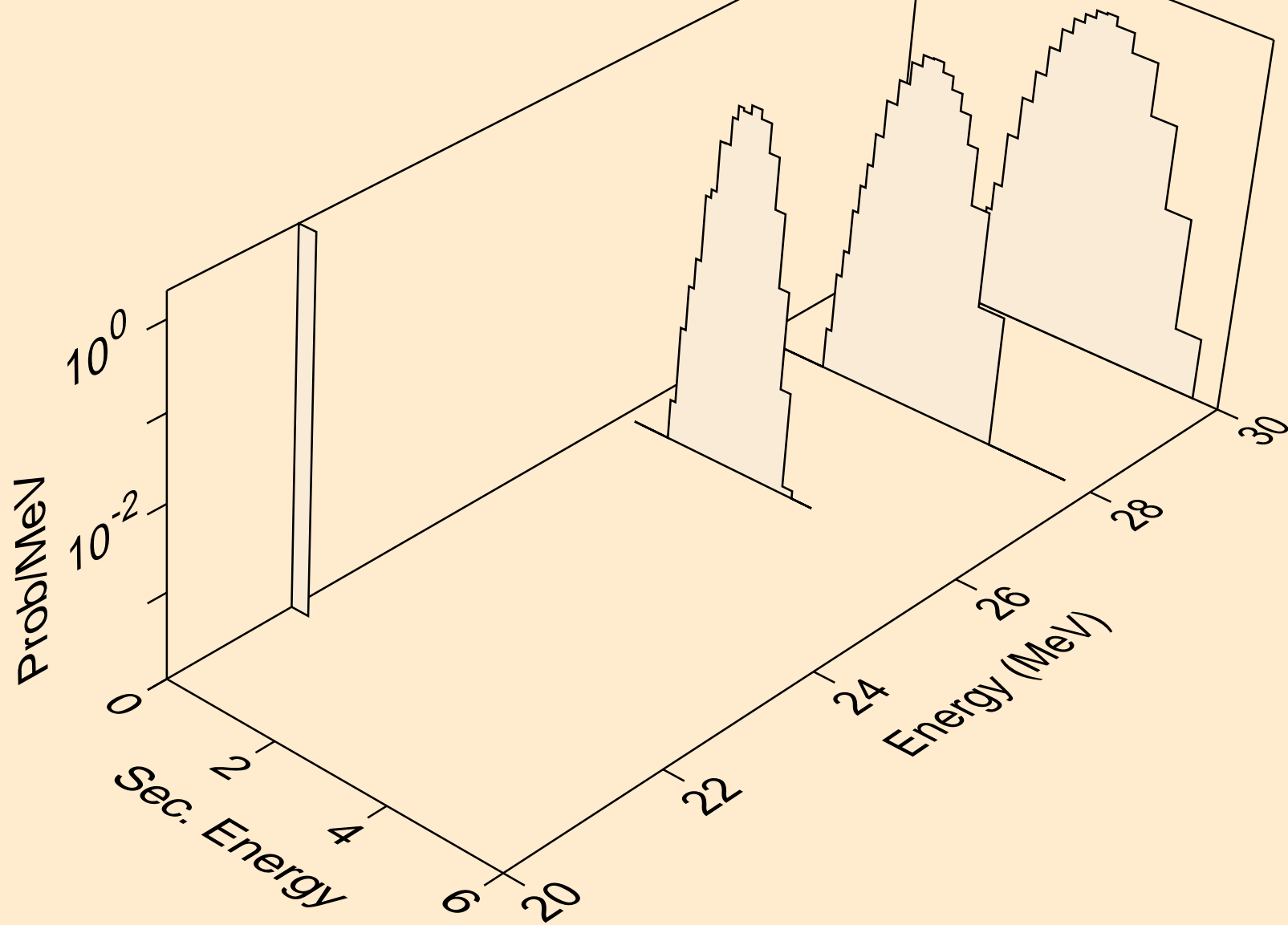
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alphas from (p,3n)a



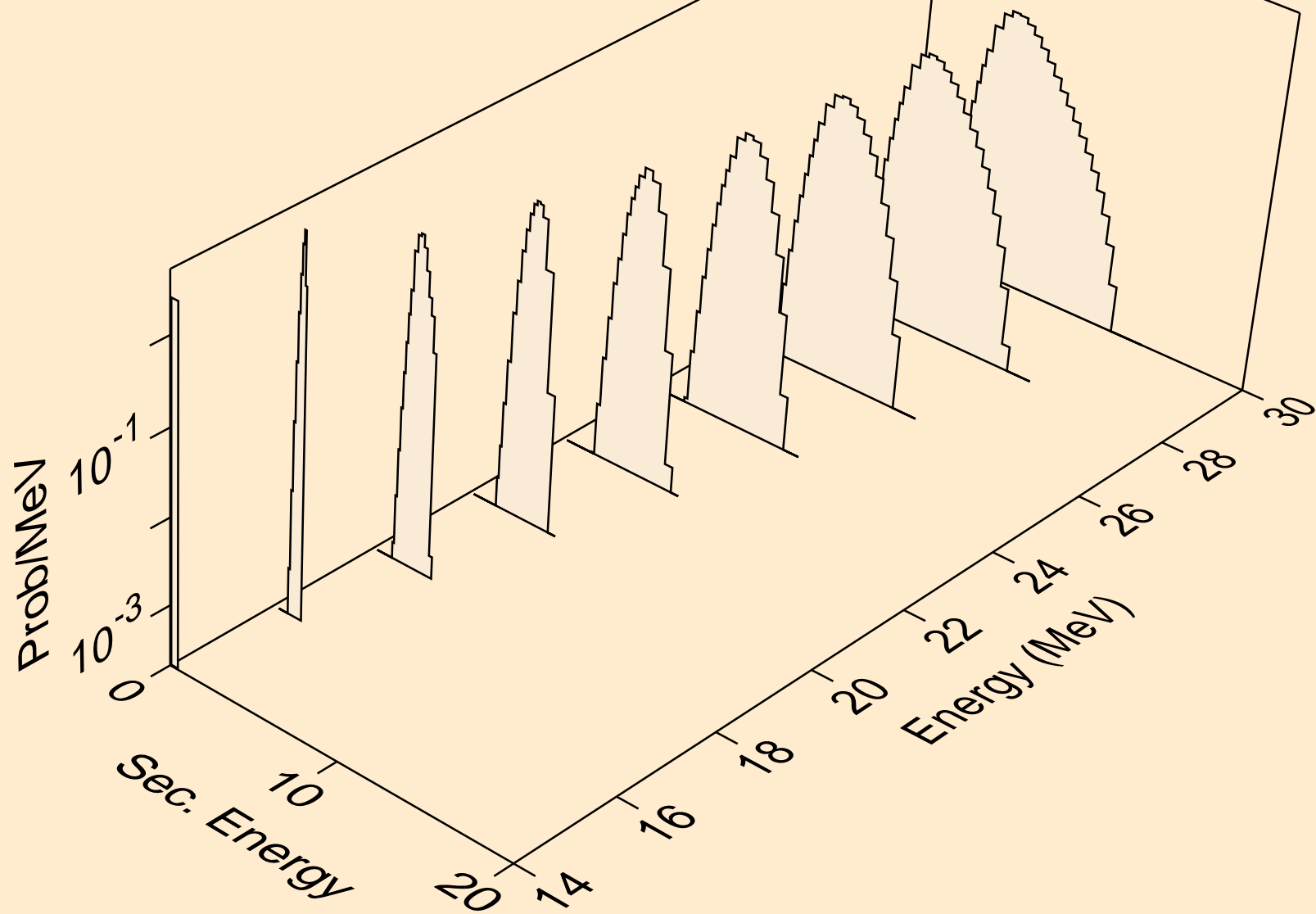
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alphas from (p,n\*)2a



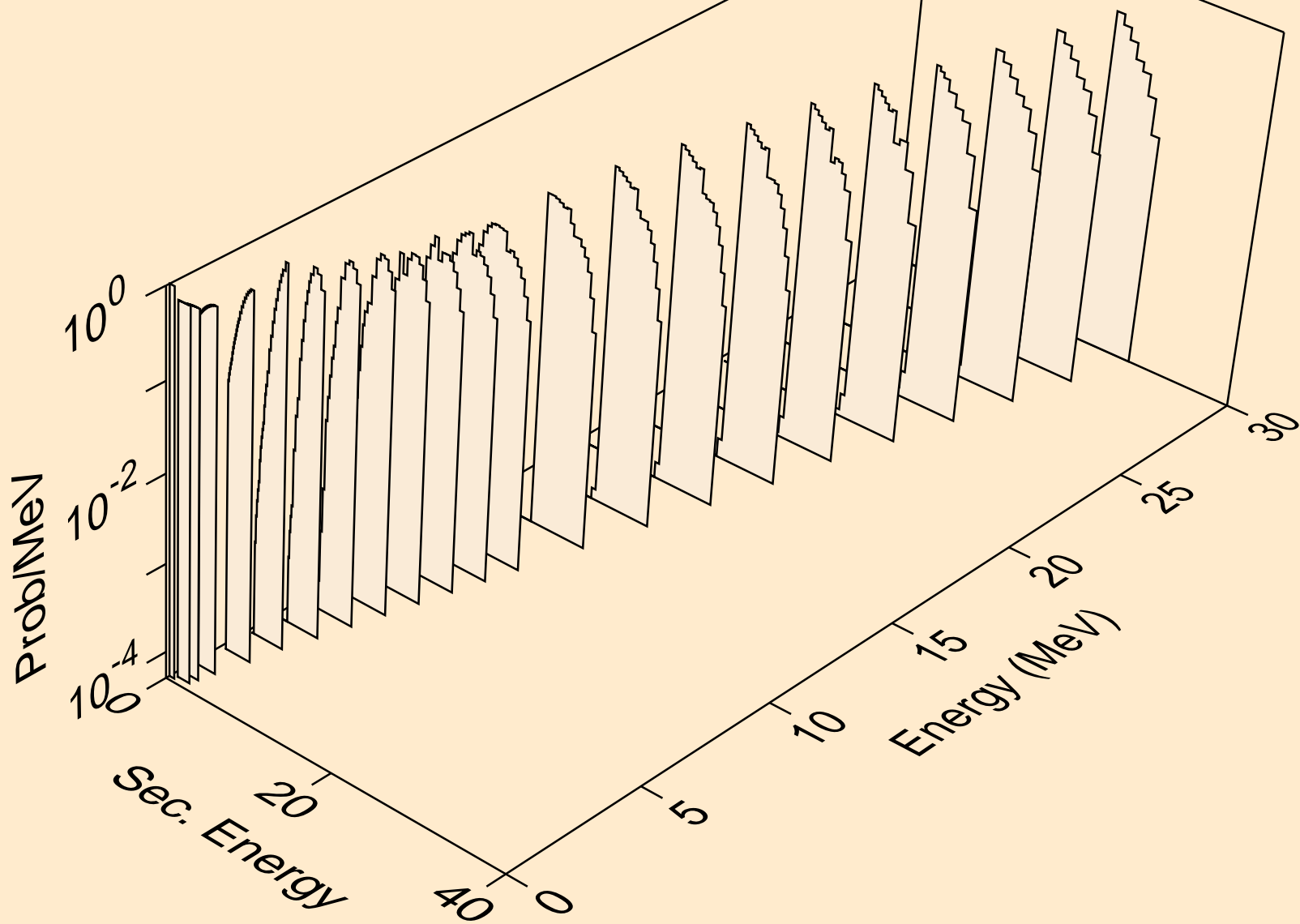
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alphas from (p,2n)2a



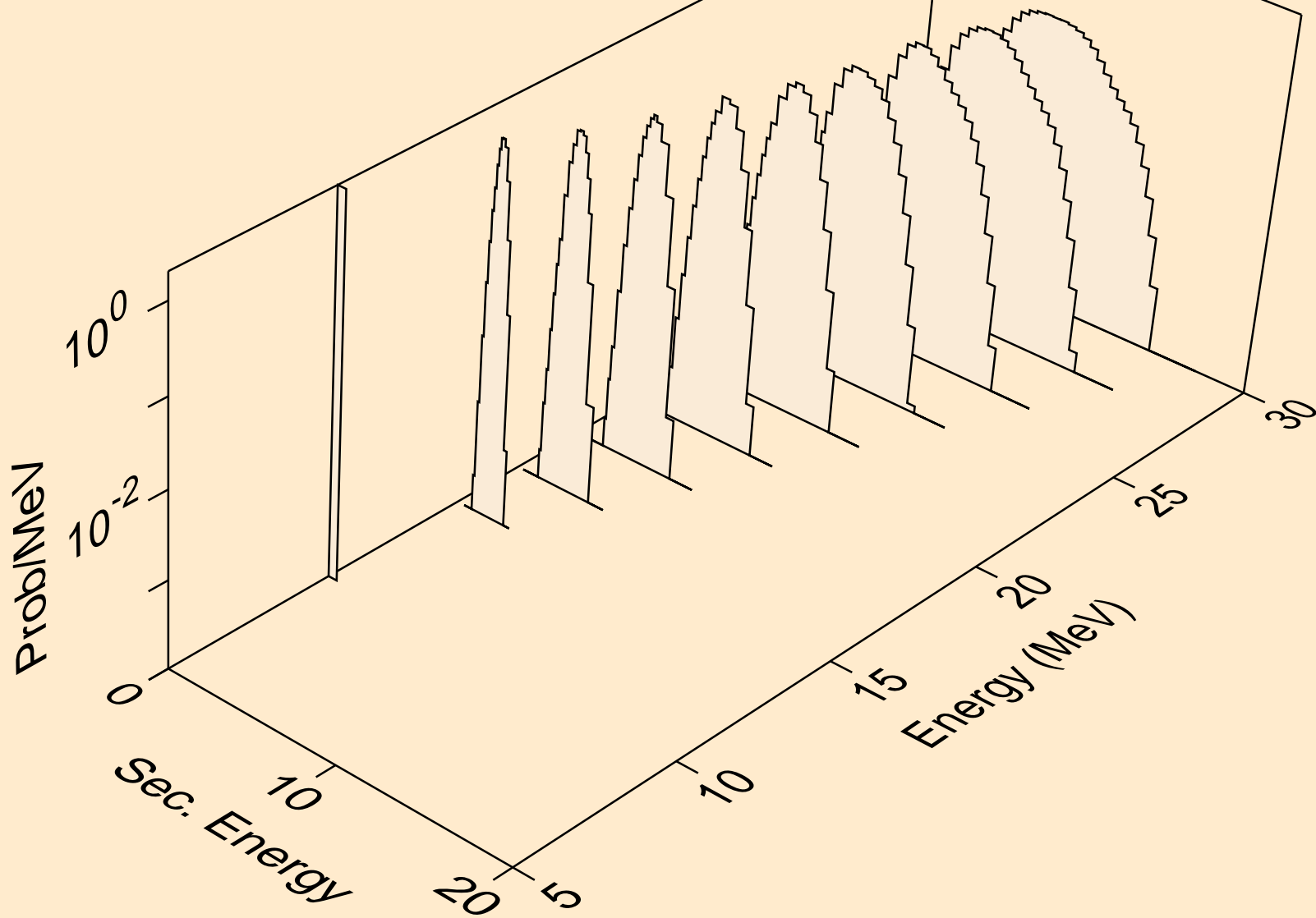
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alphas from (p,npa)



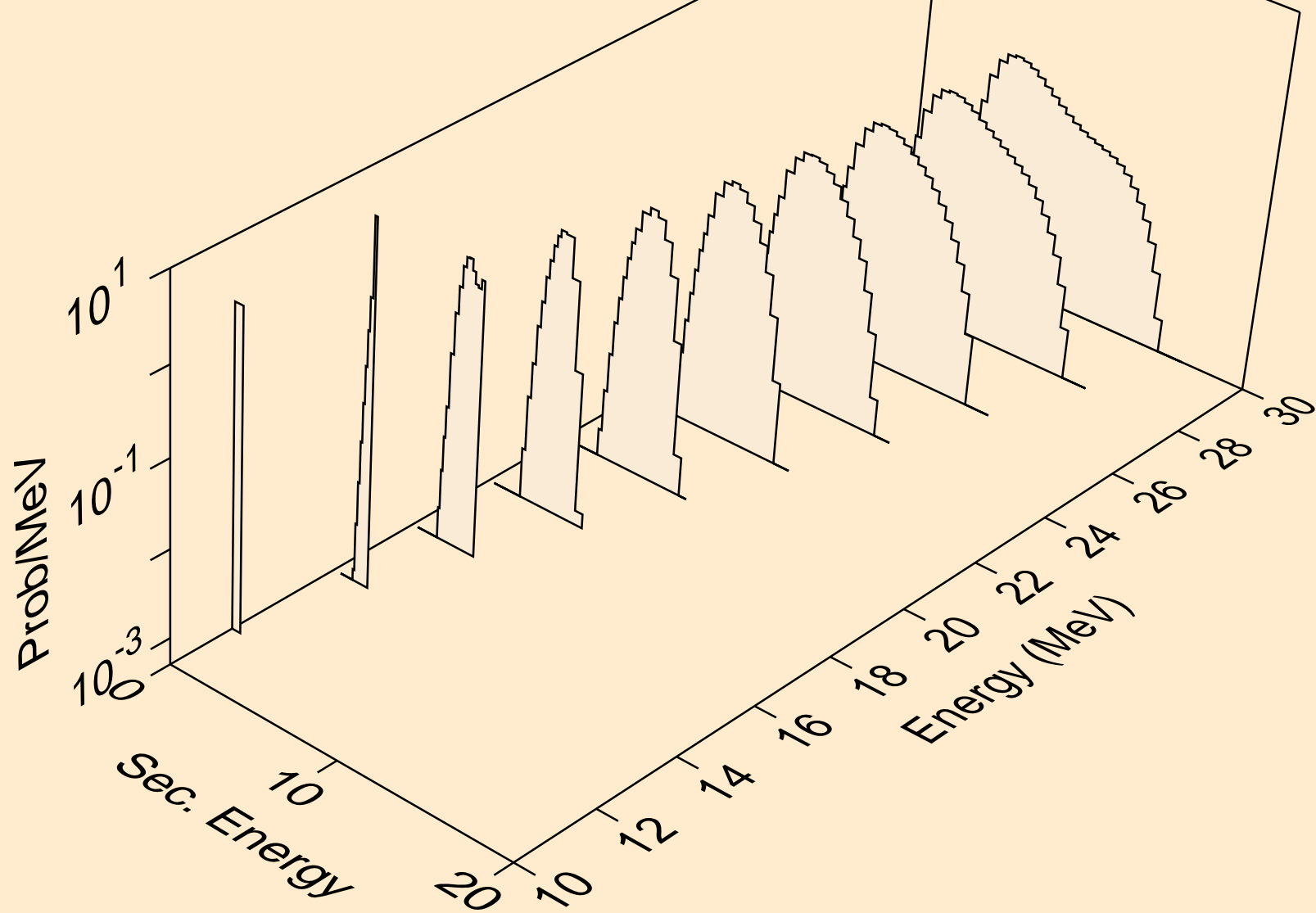
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alphas from (p,a)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)





S039 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

