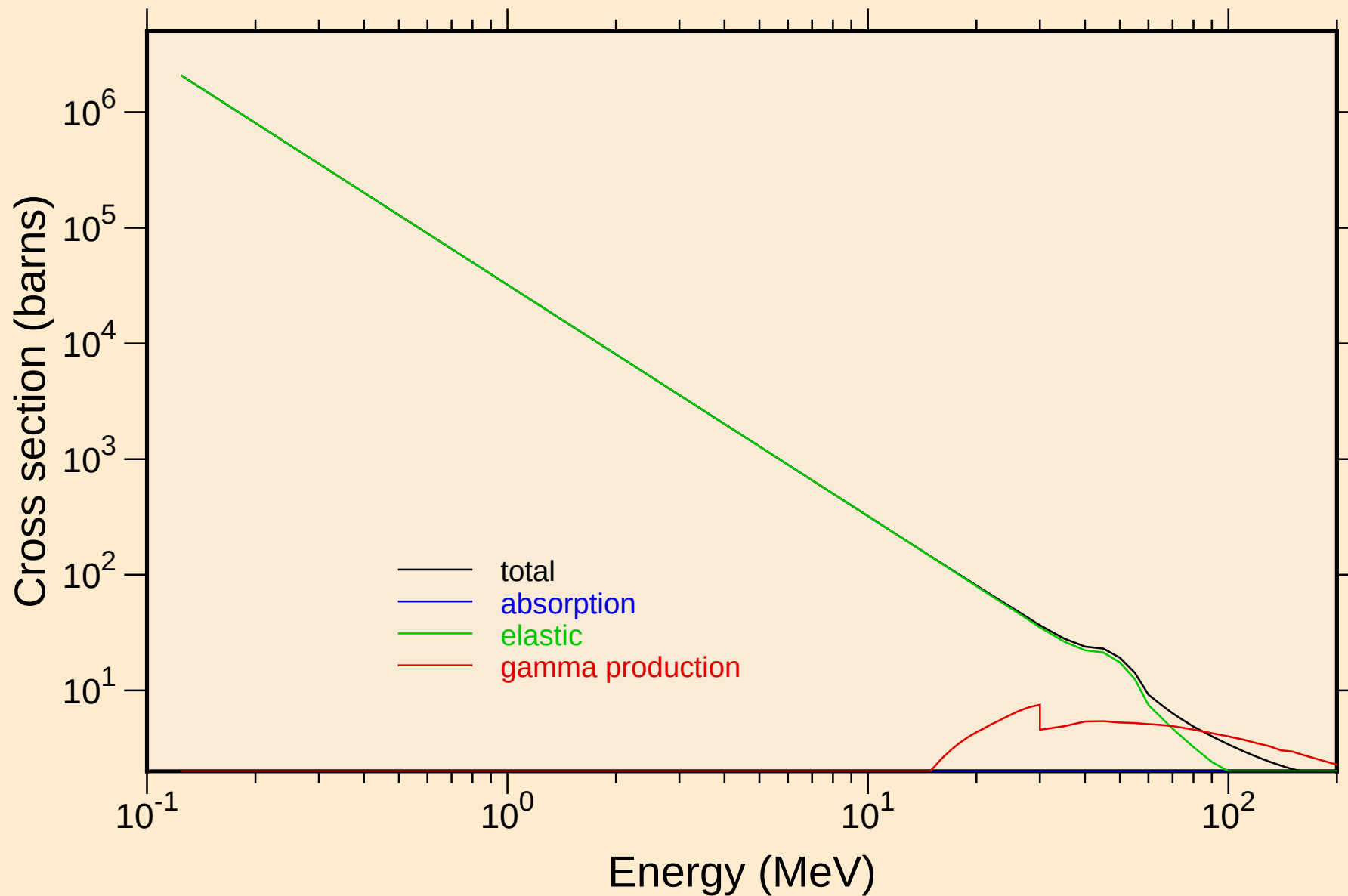


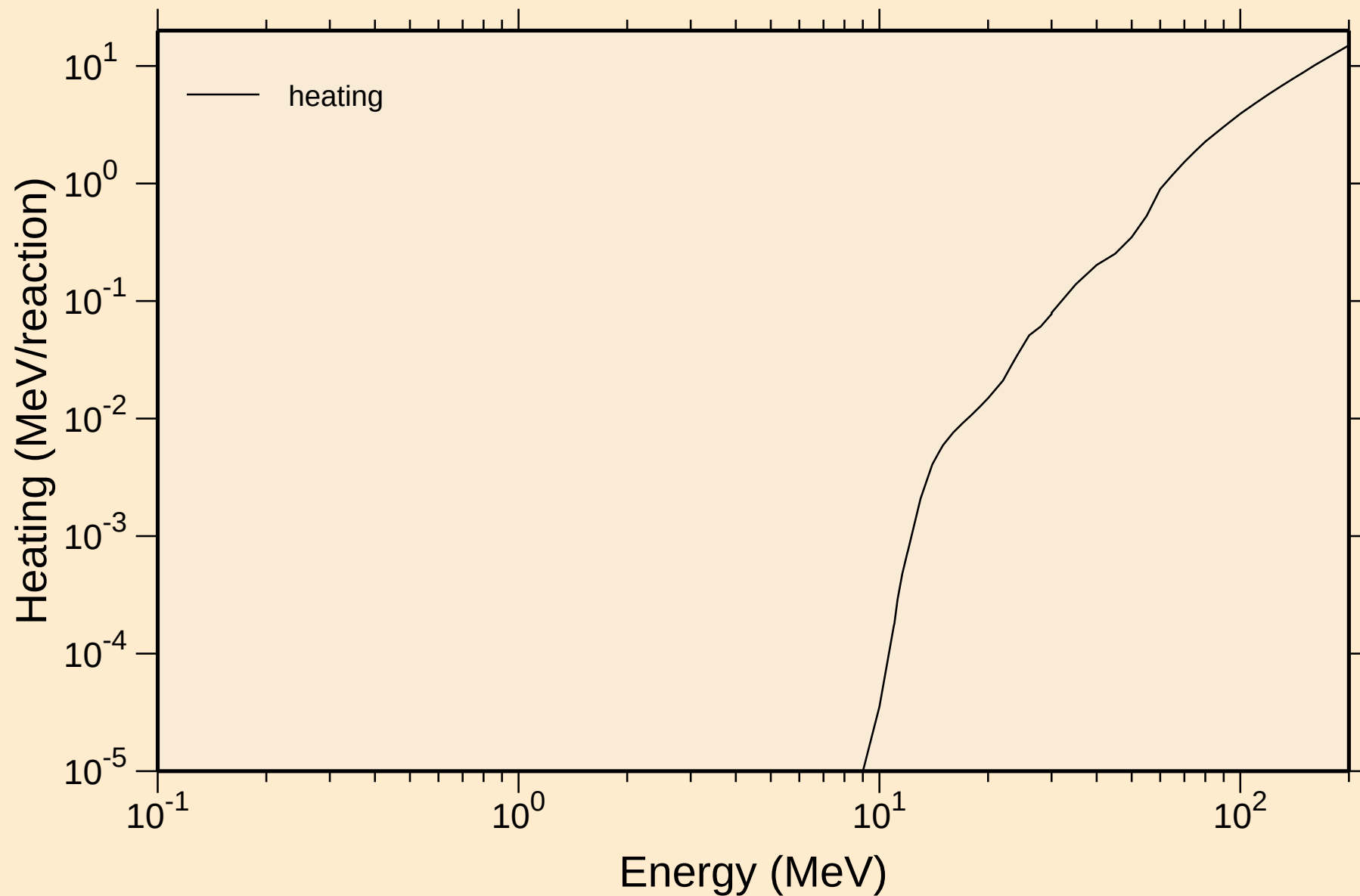
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



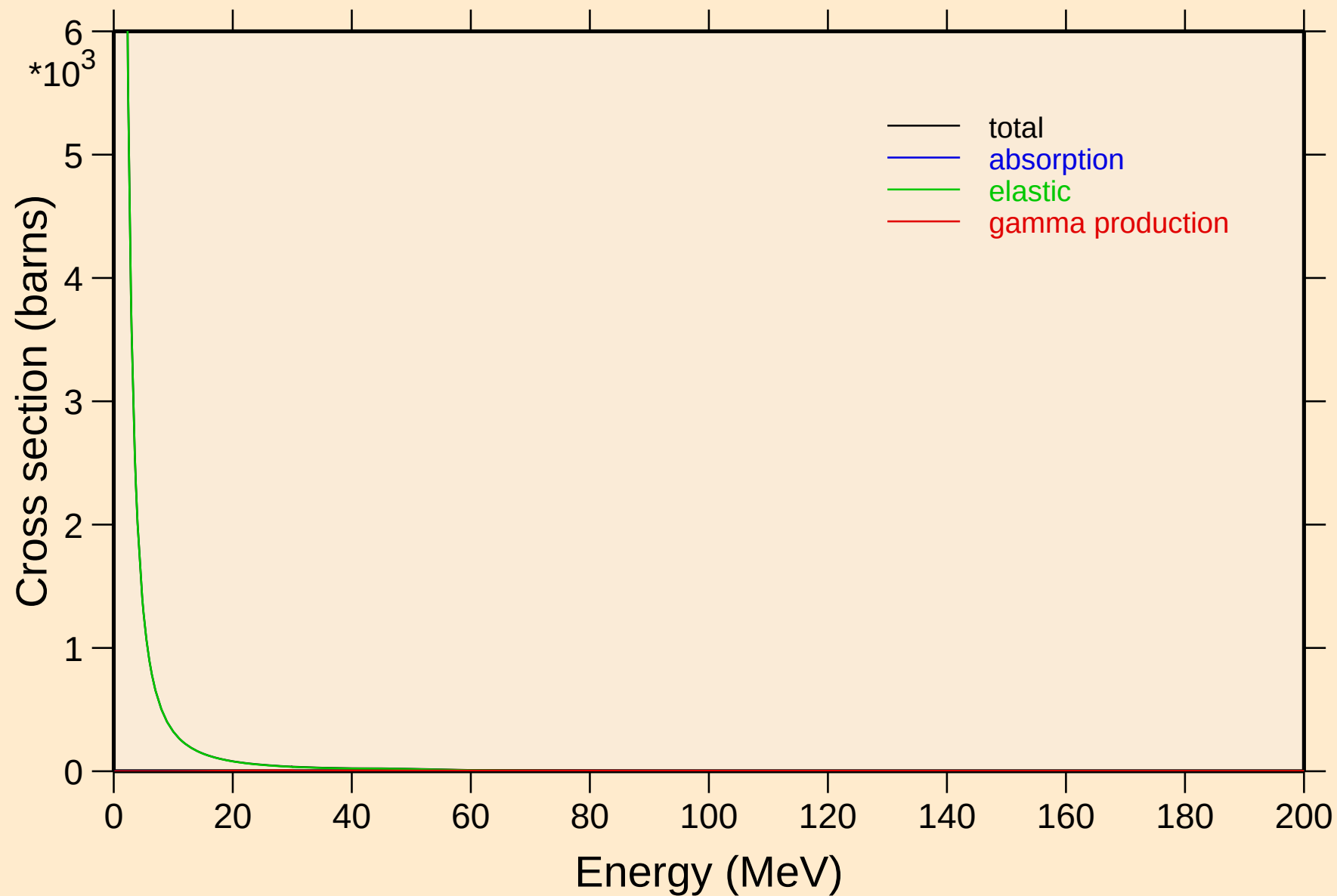
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



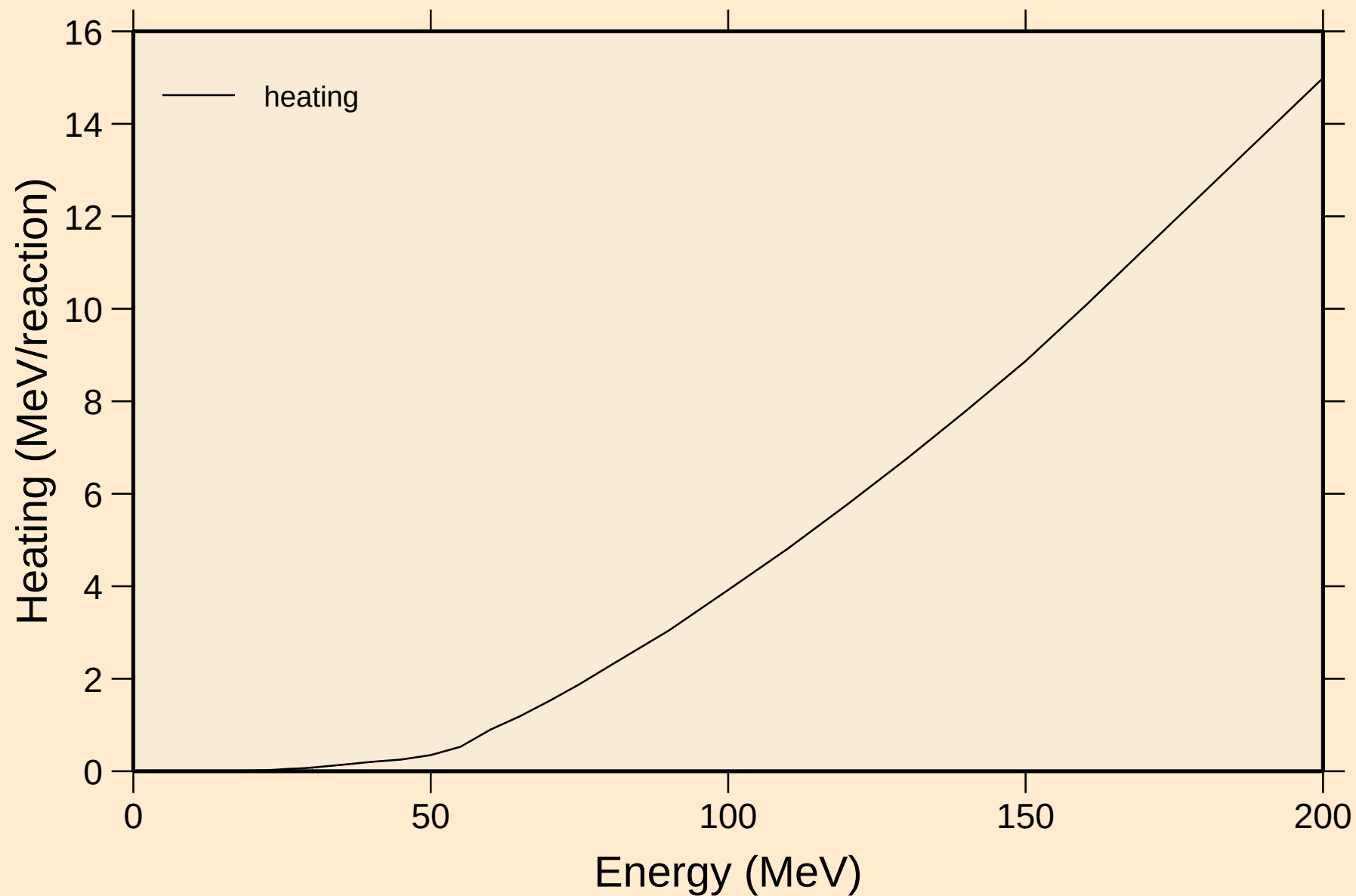
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



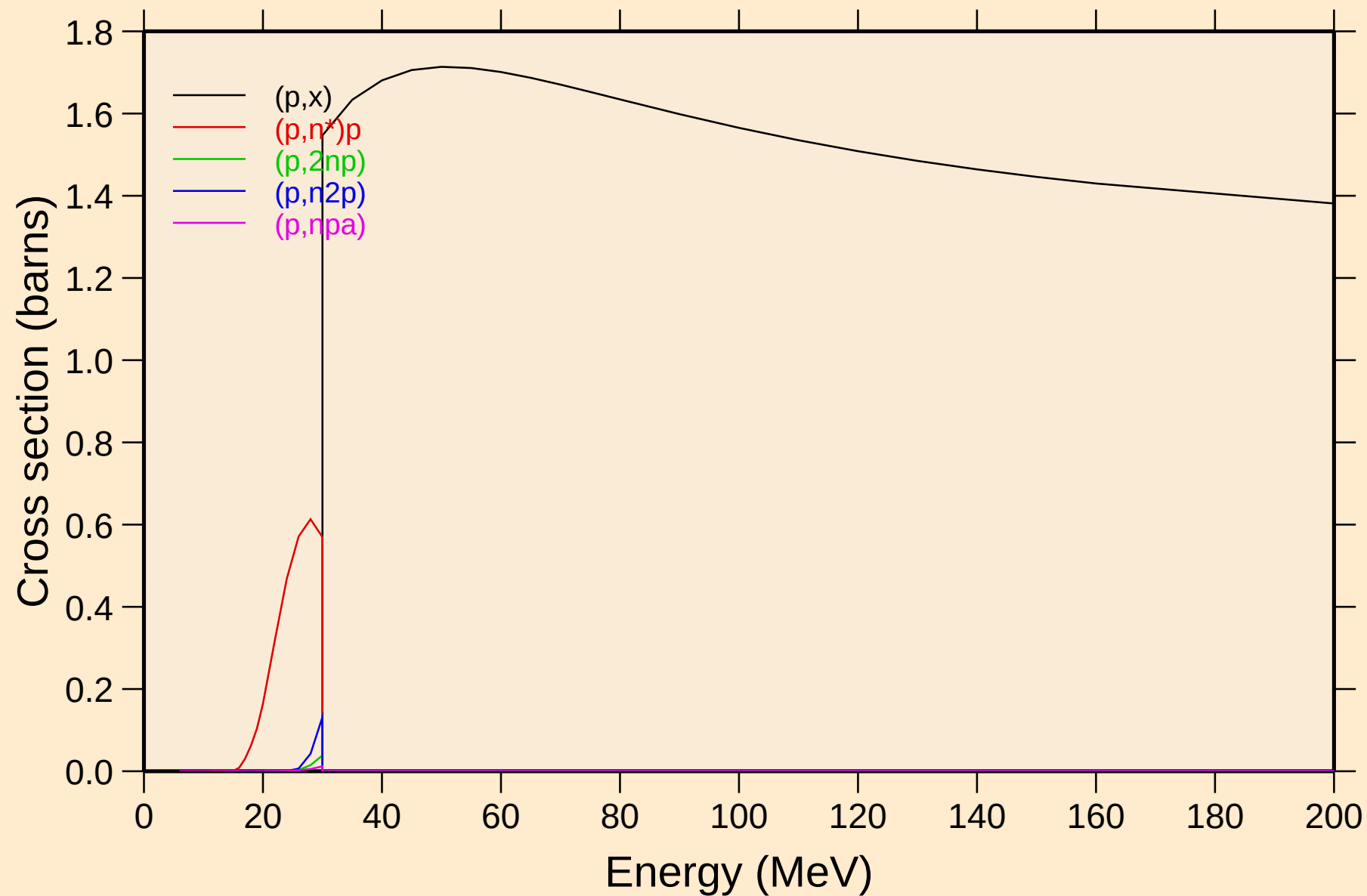
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



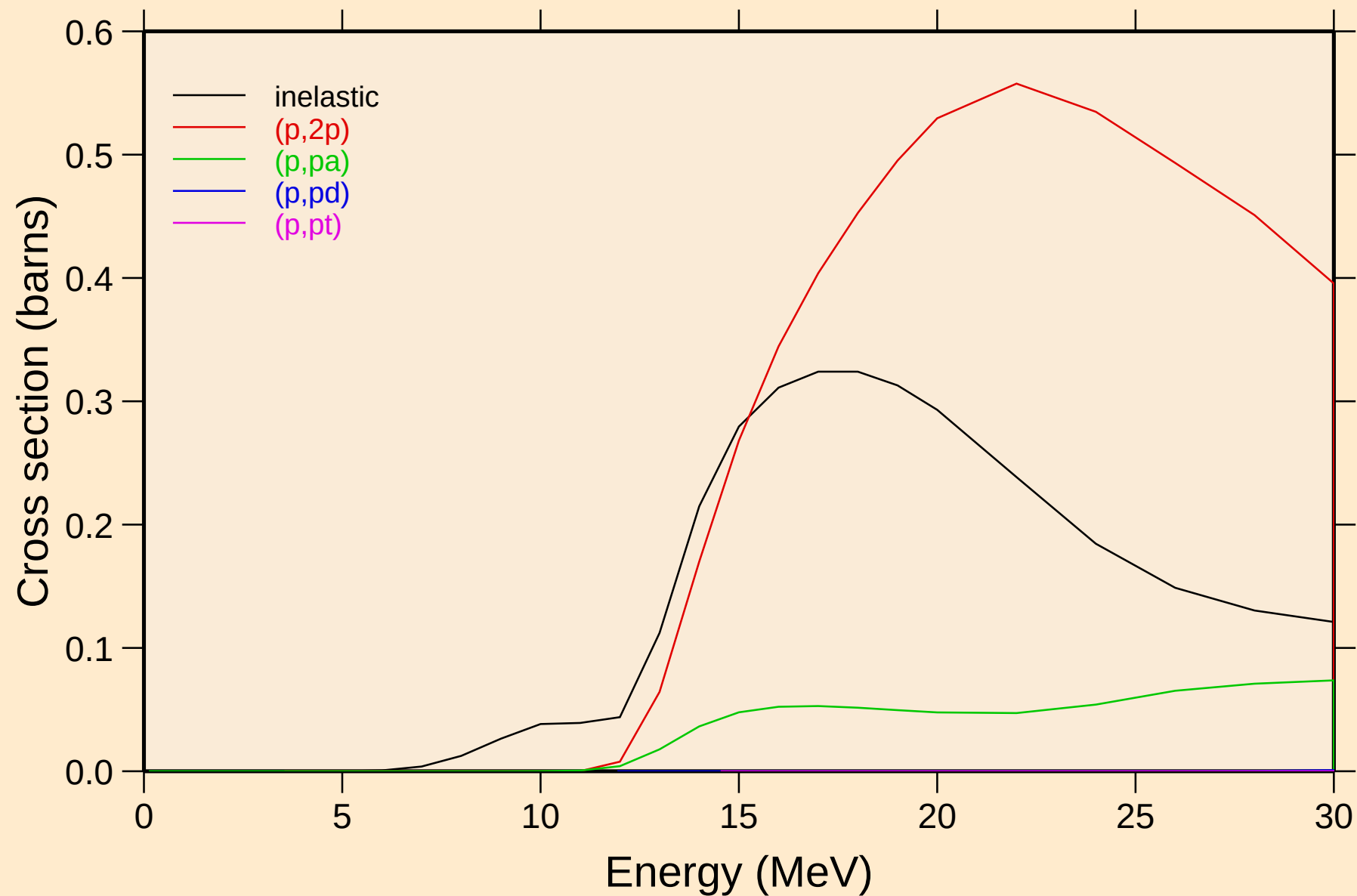
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions



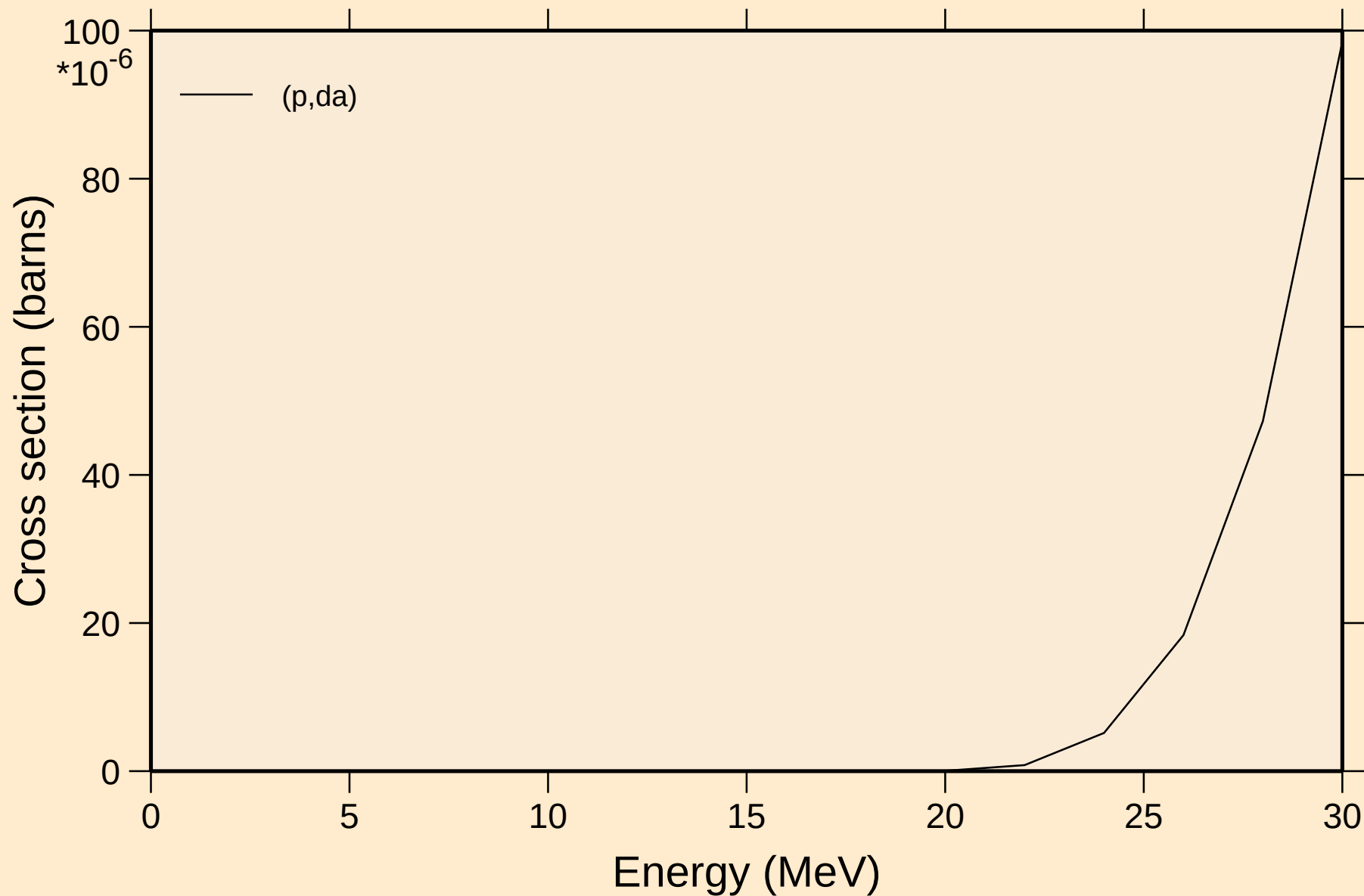
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

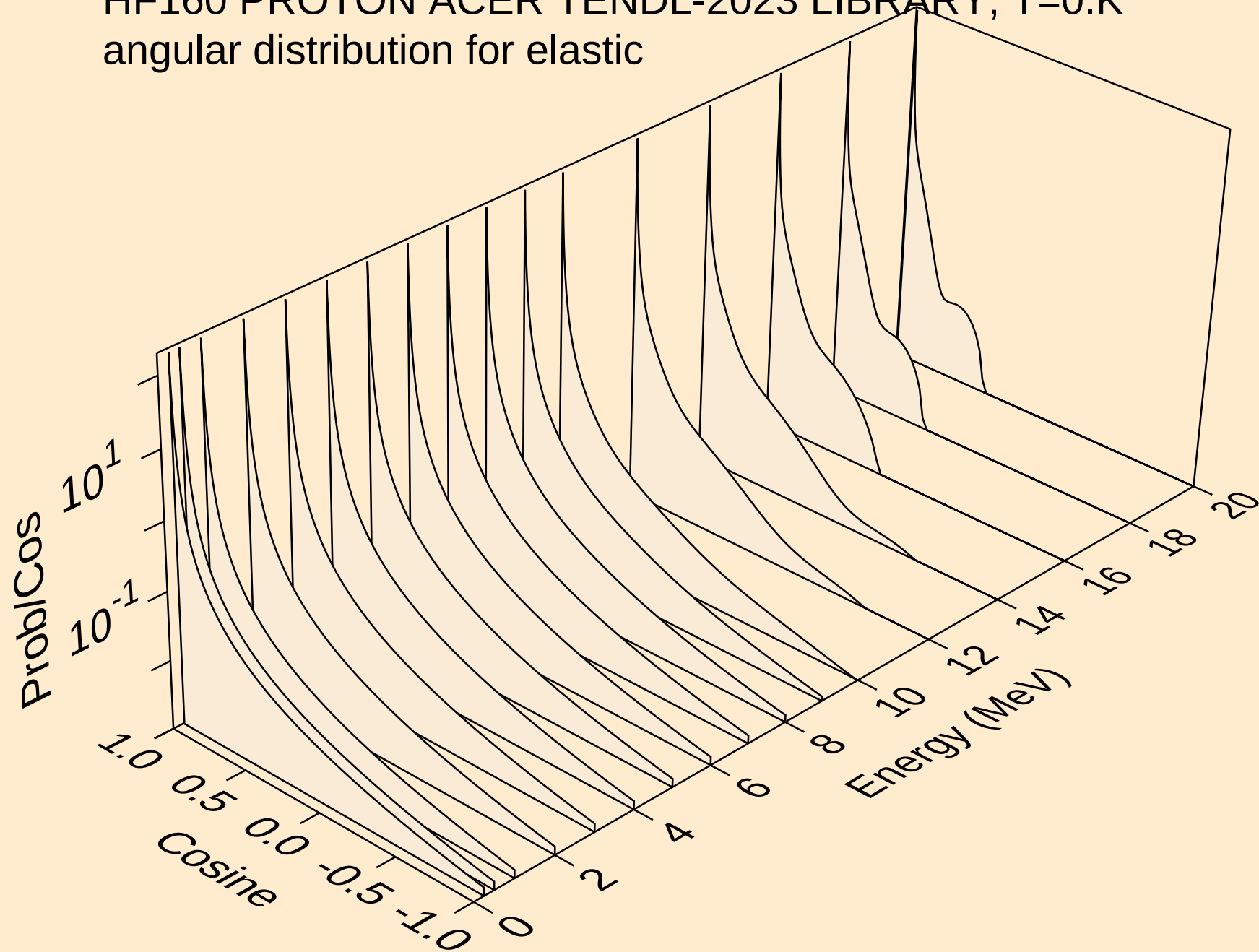


# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions

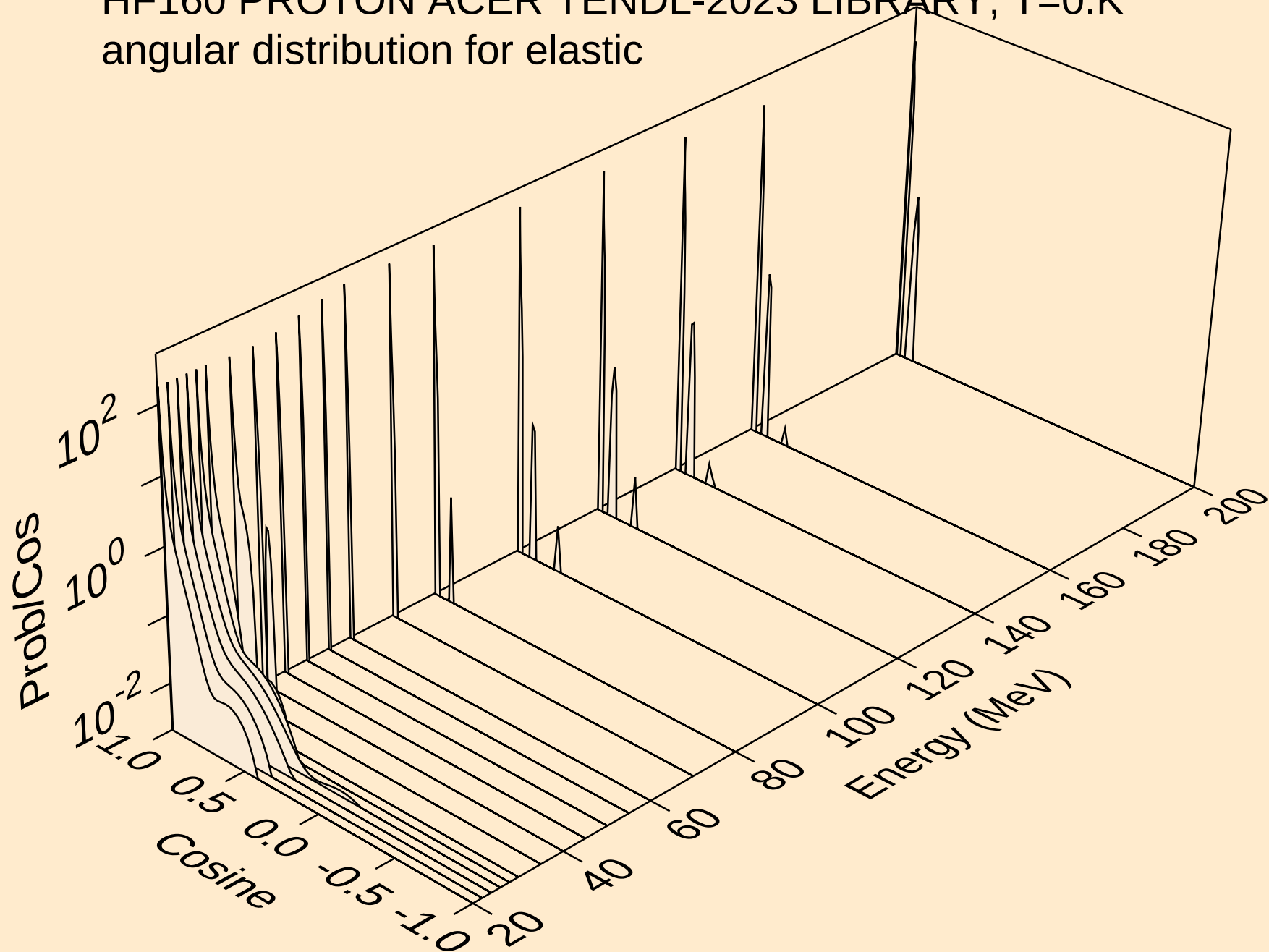


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



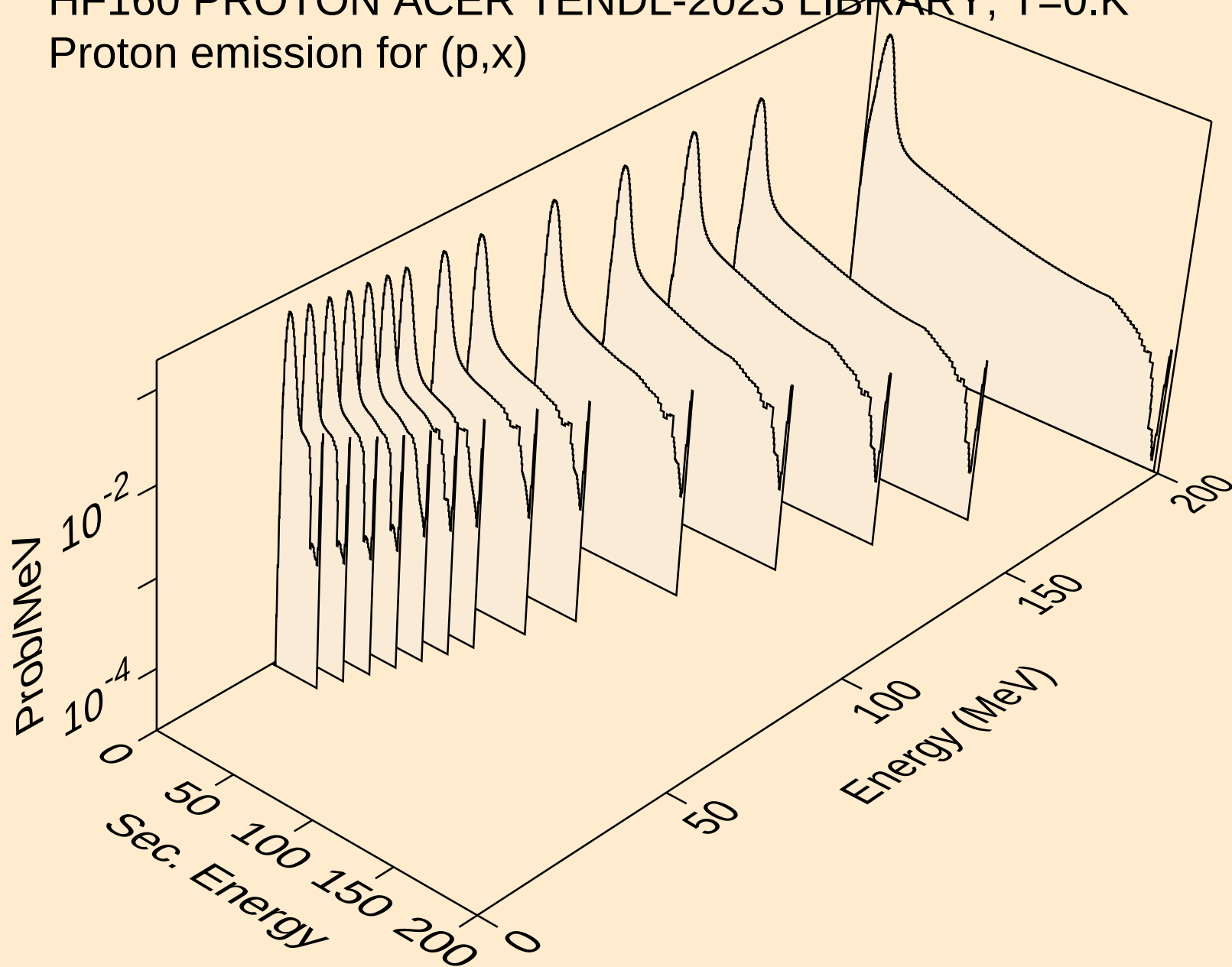


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



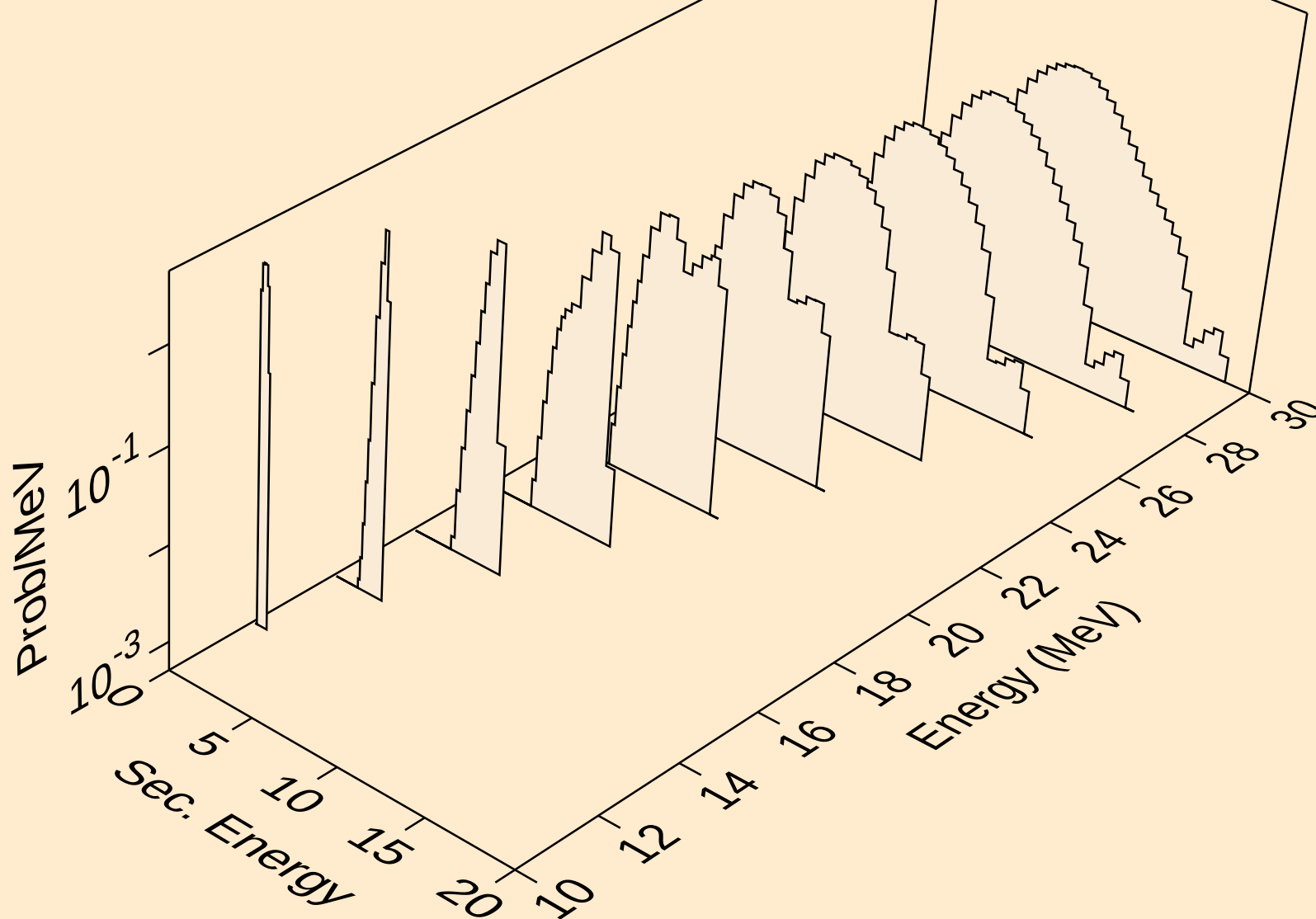
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,x)

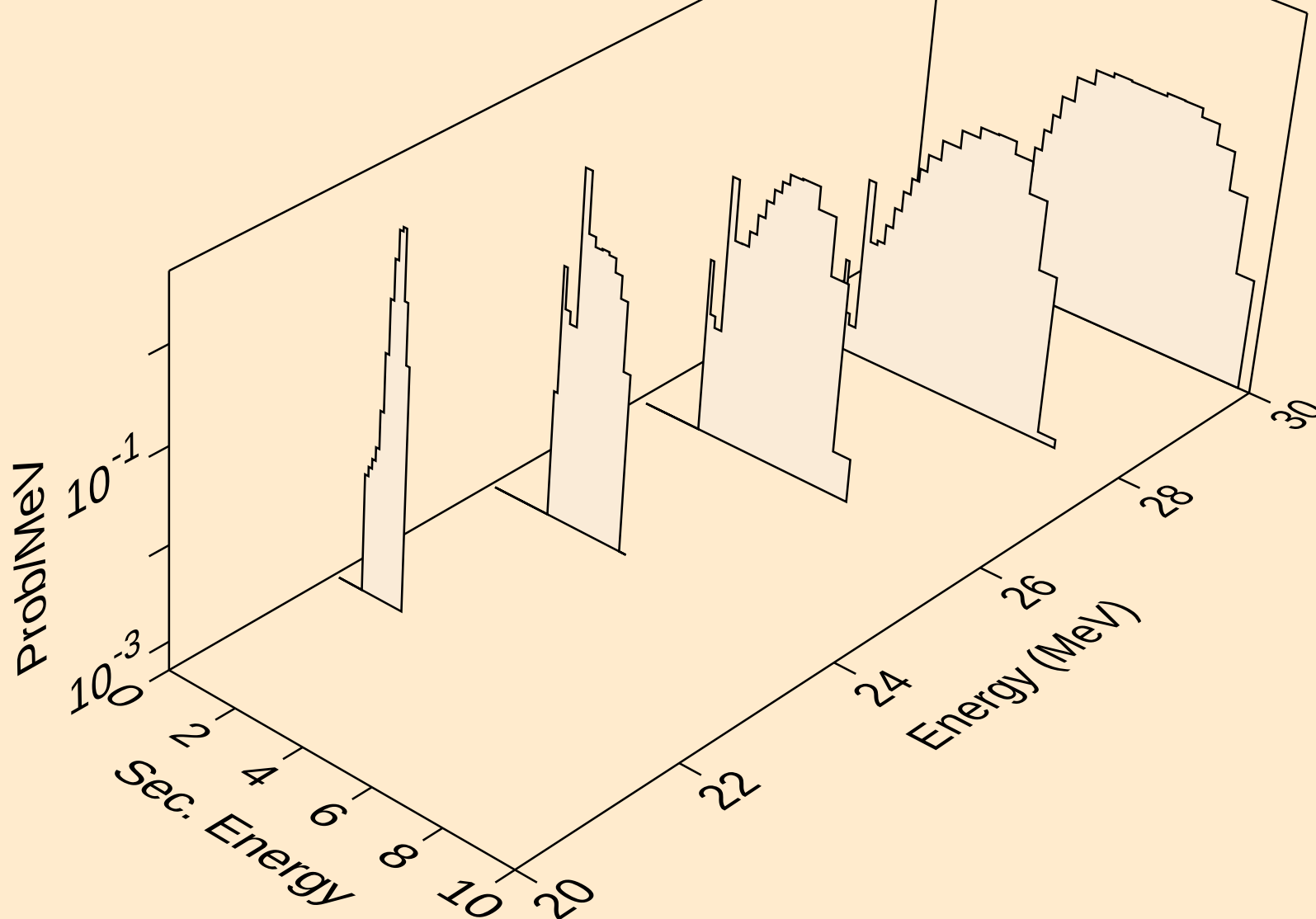


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

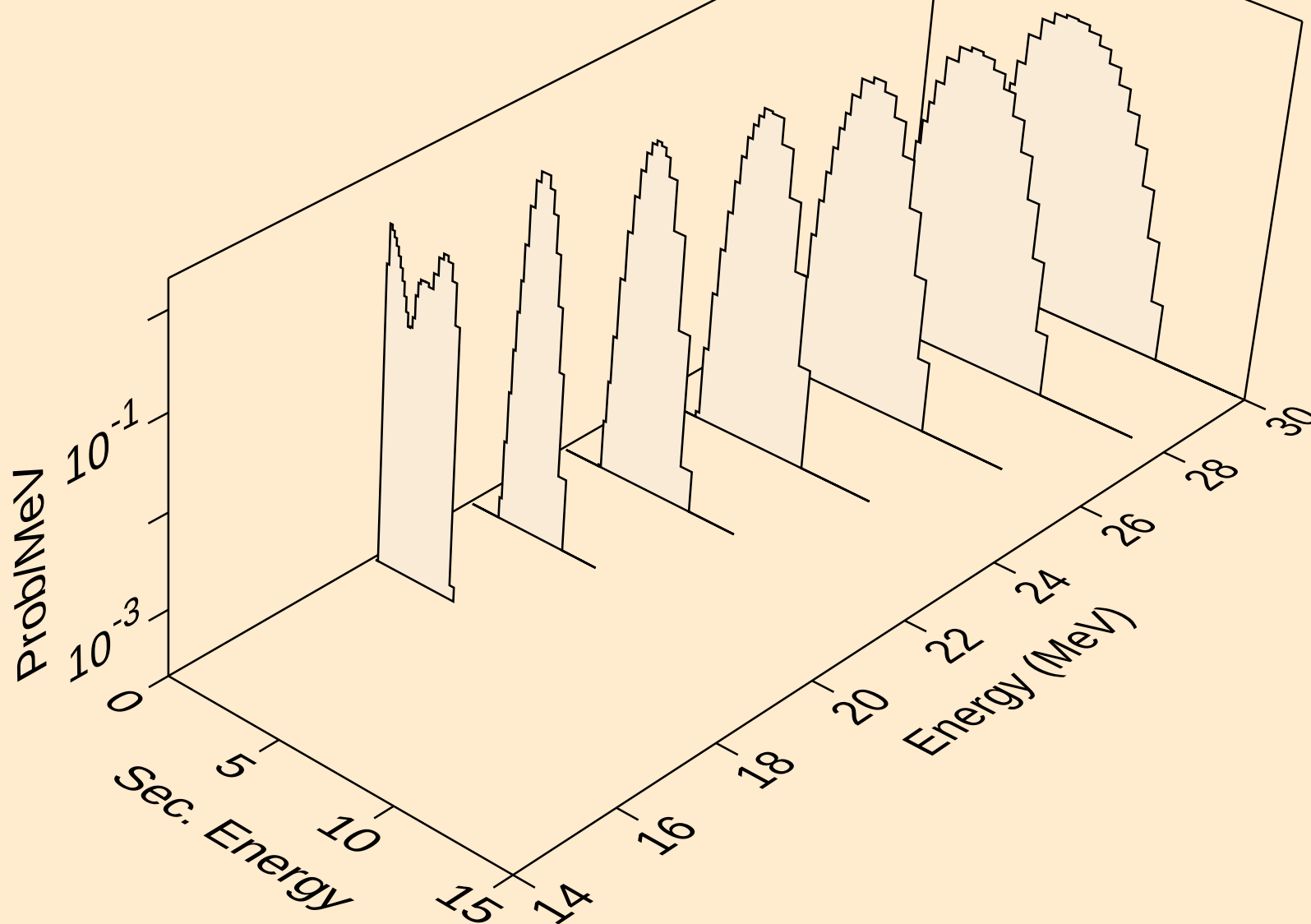
Proton emission for (p,n\*)p



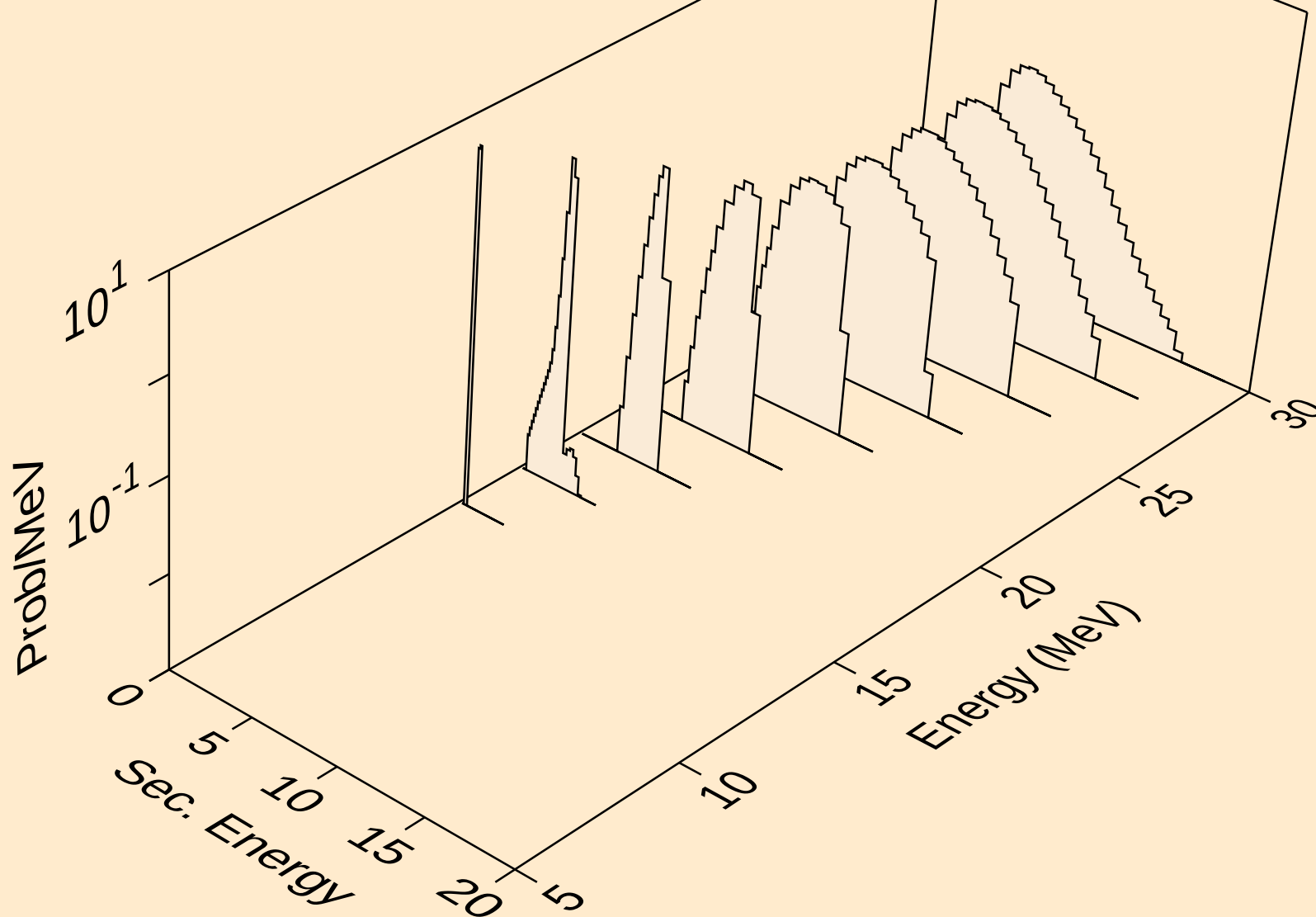
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



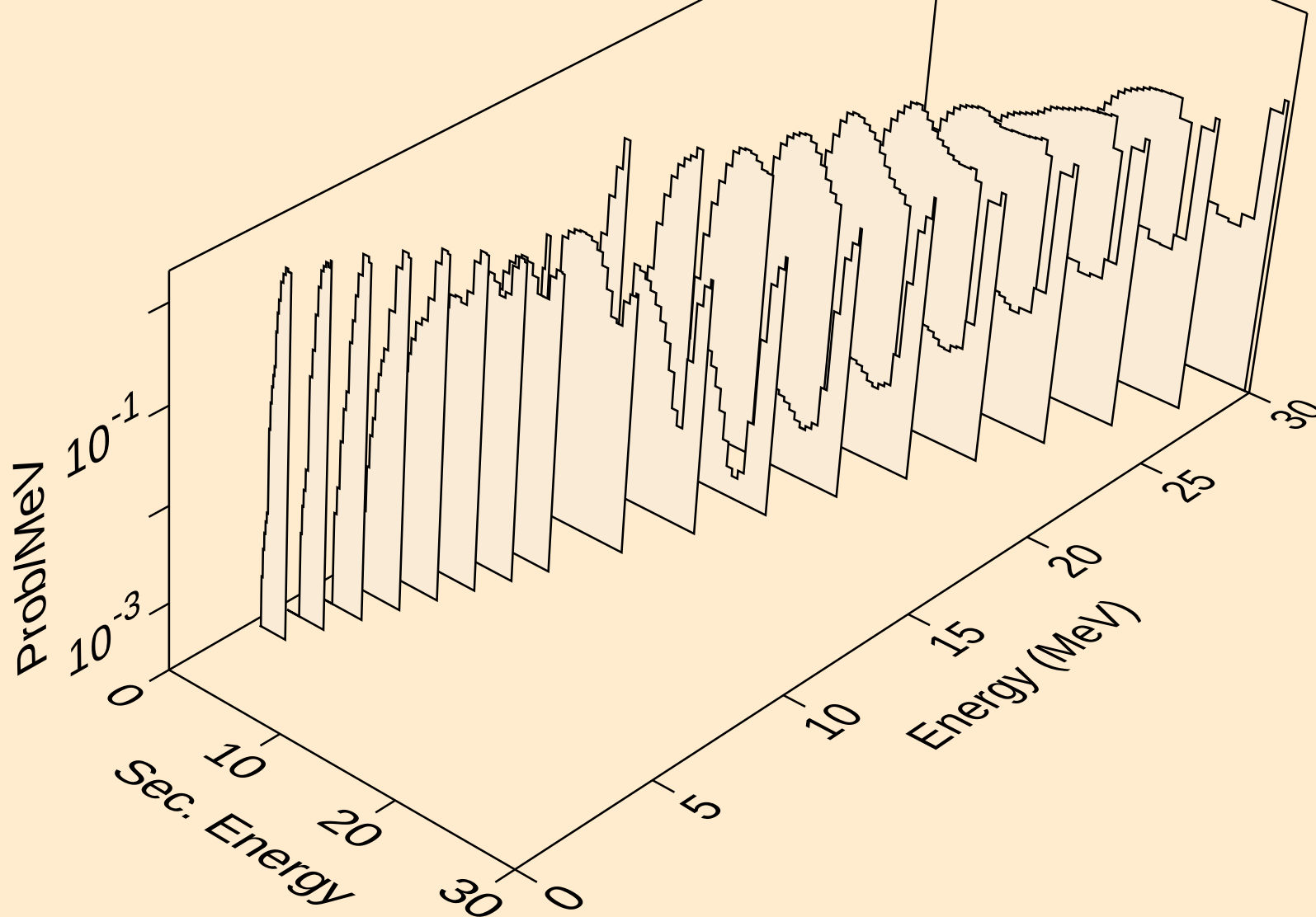
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)

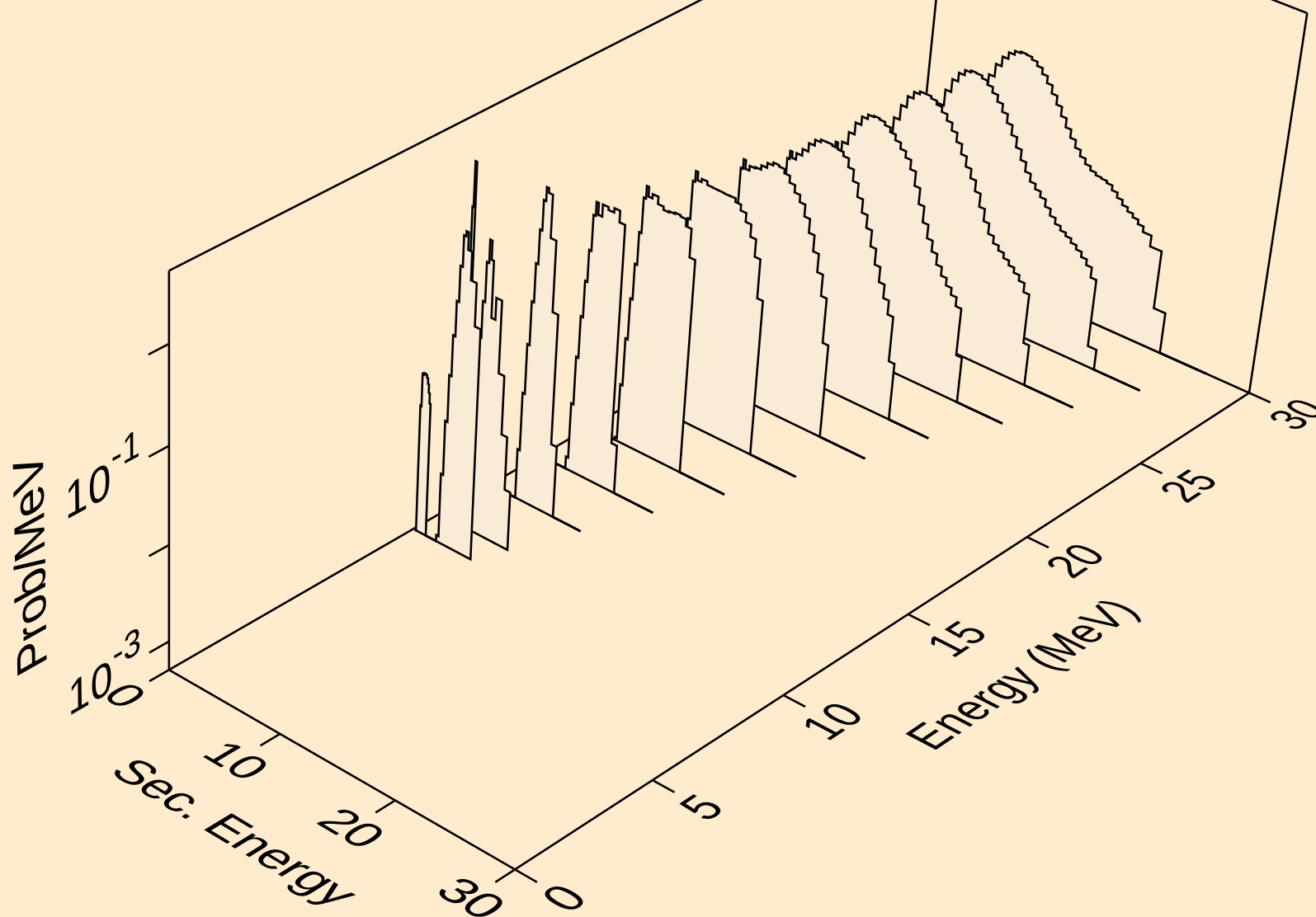


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

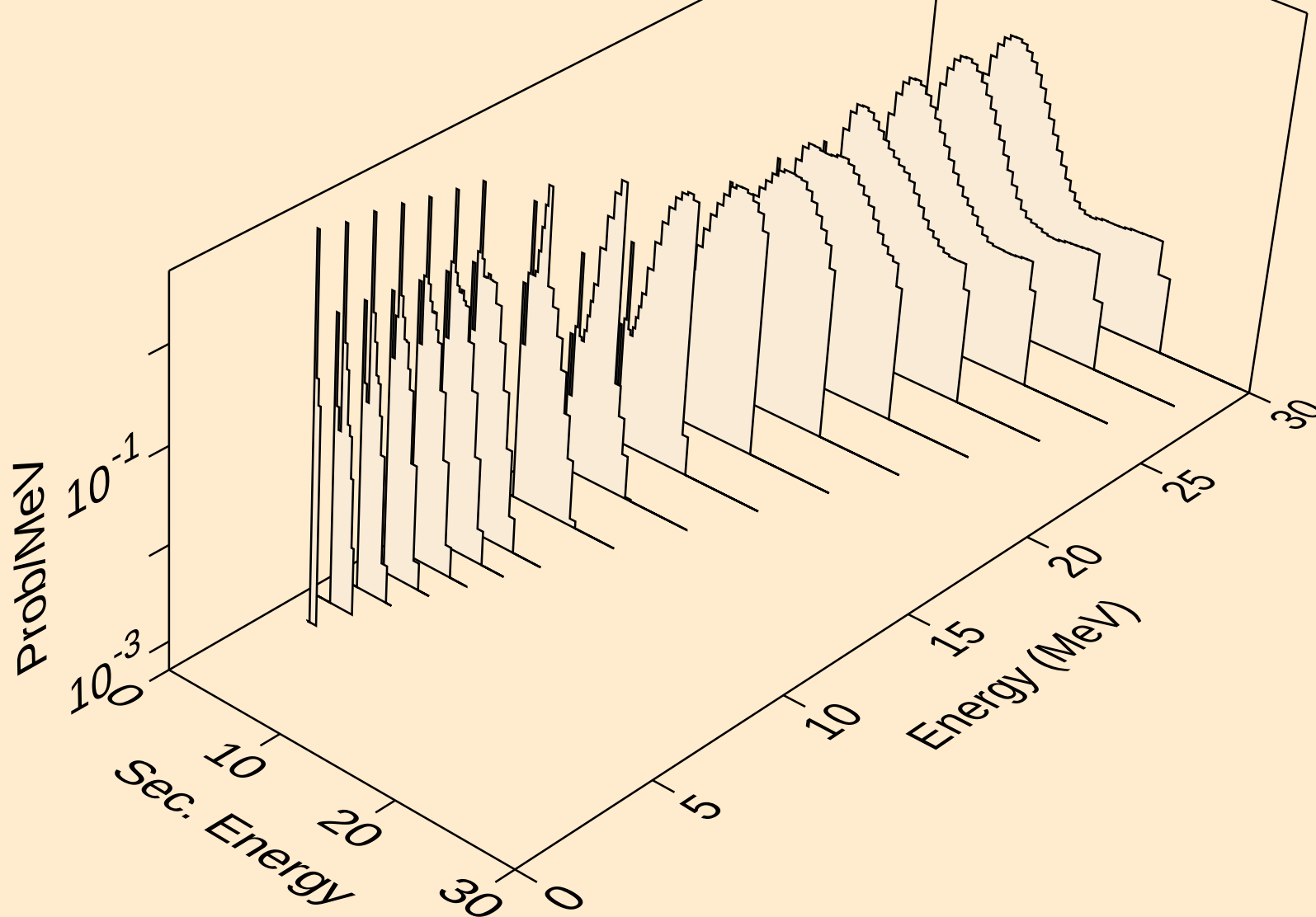
Proton emission for (p,2p)





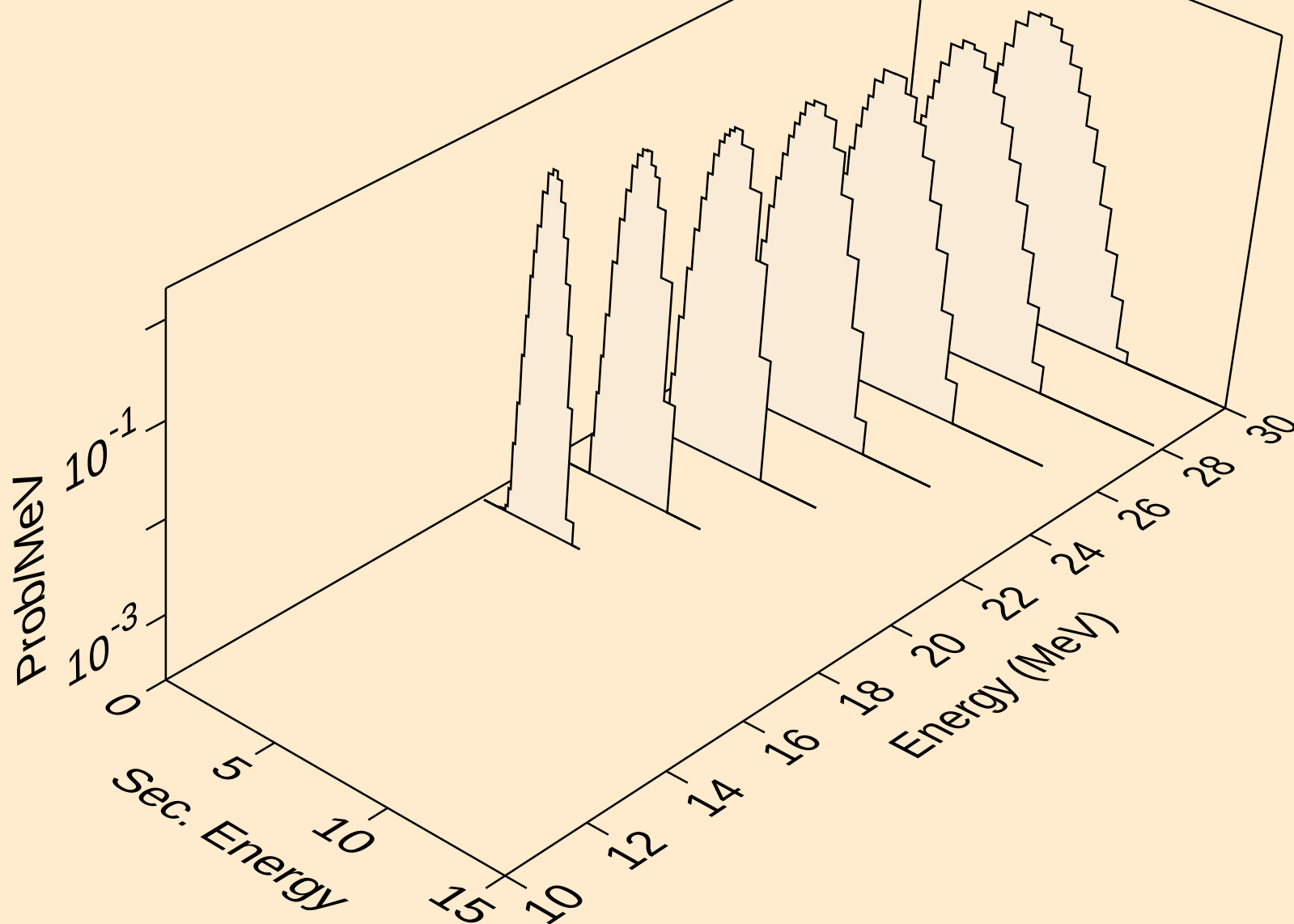
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pa)



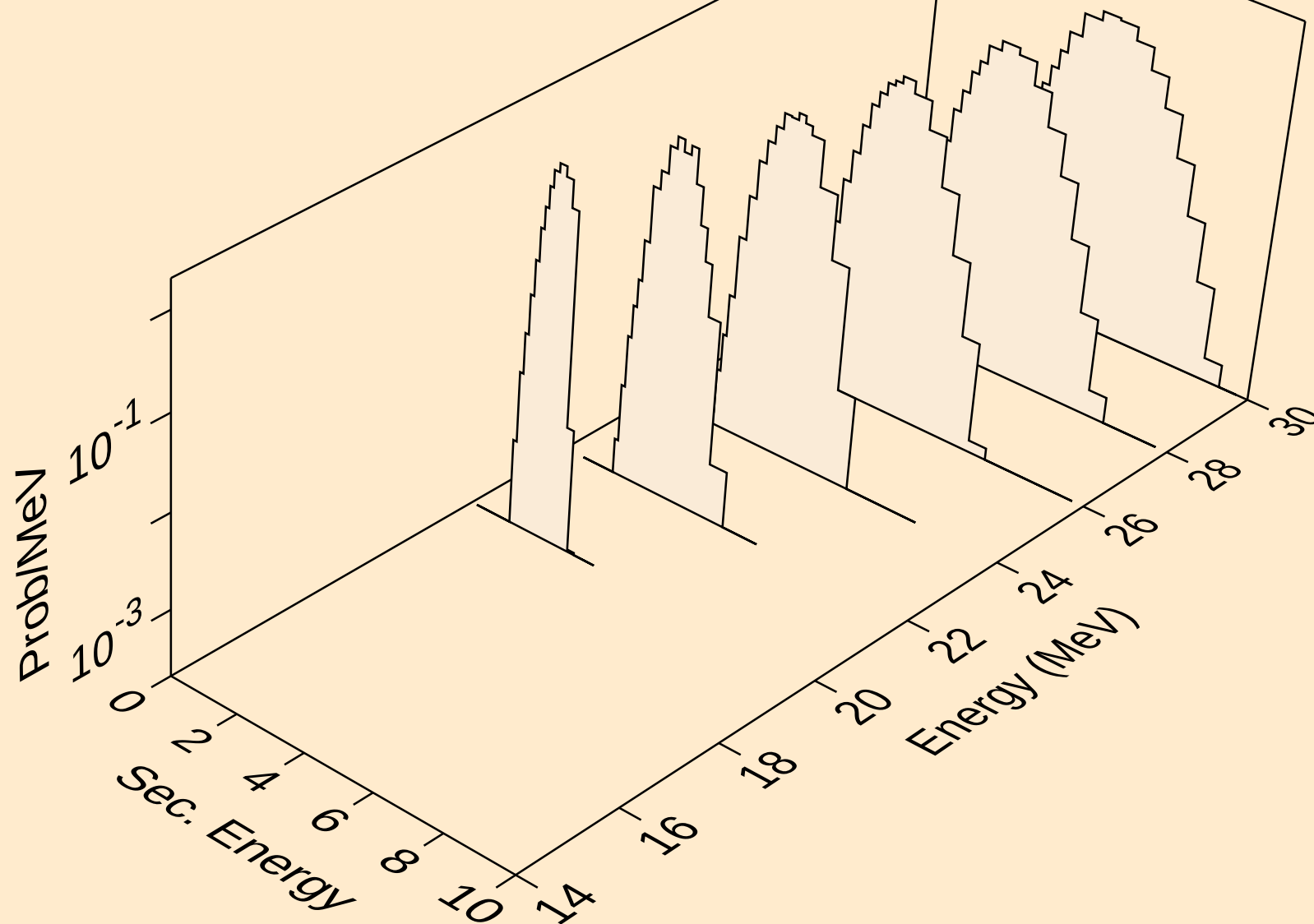
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pd)

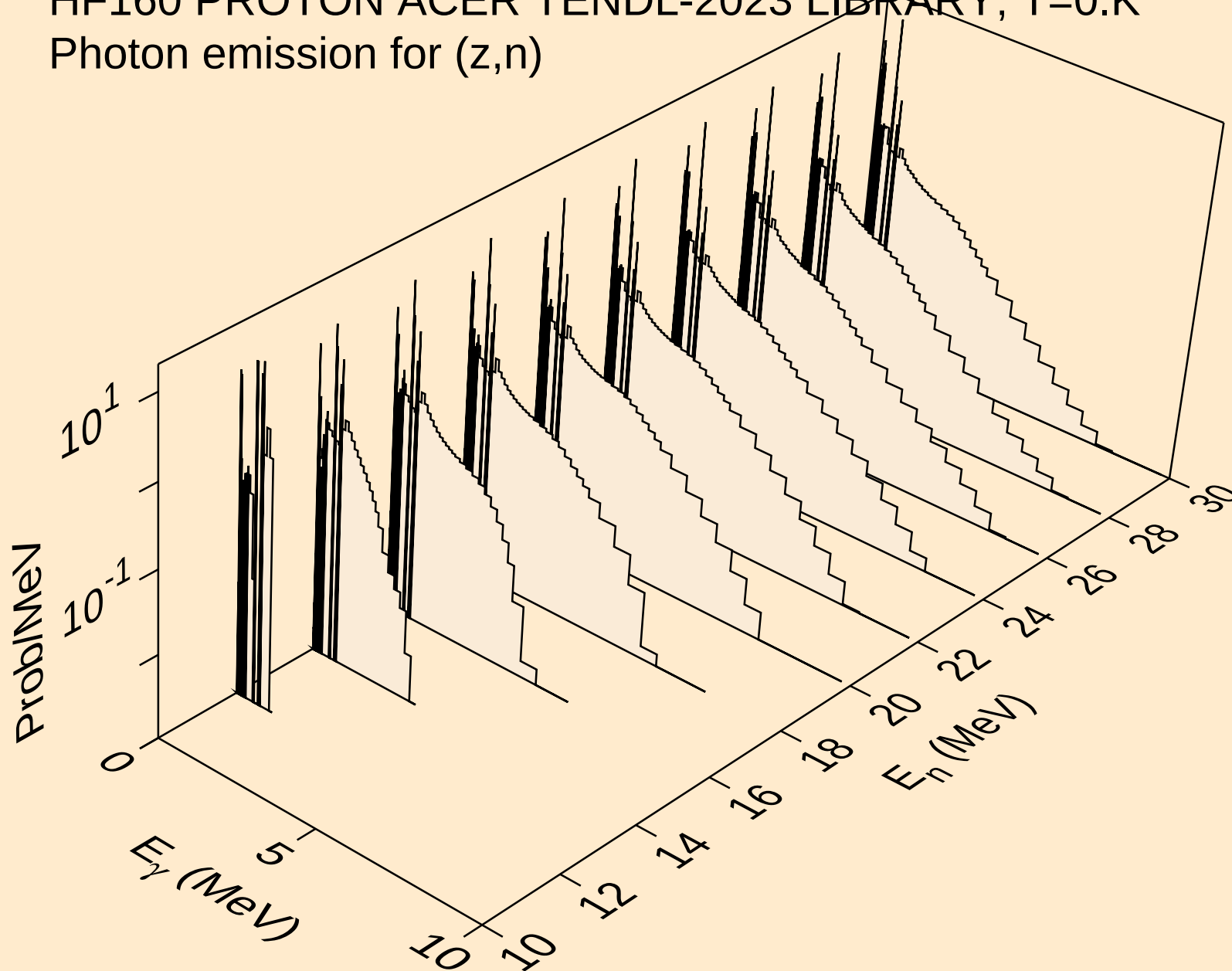


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pt)

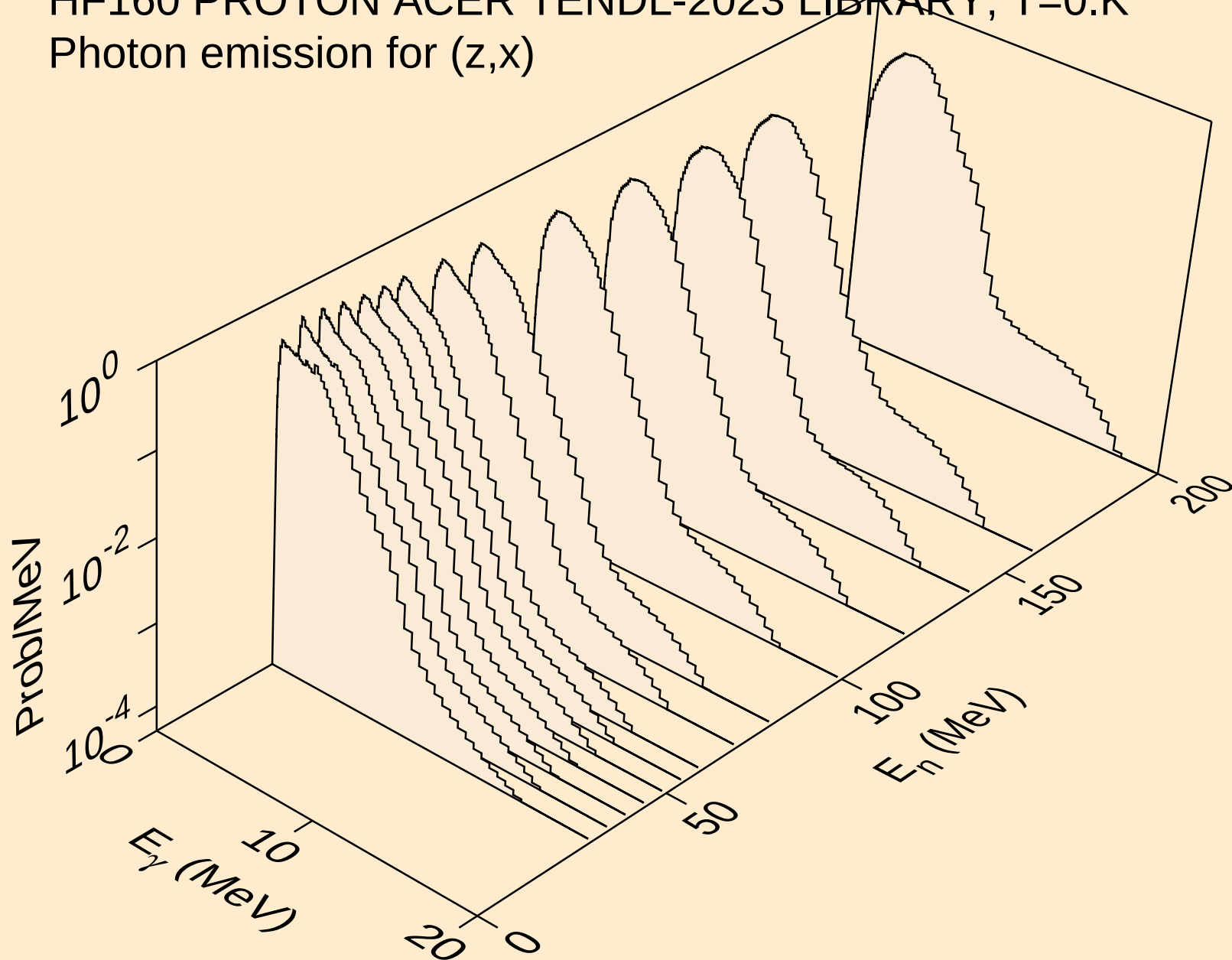


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (z,n)

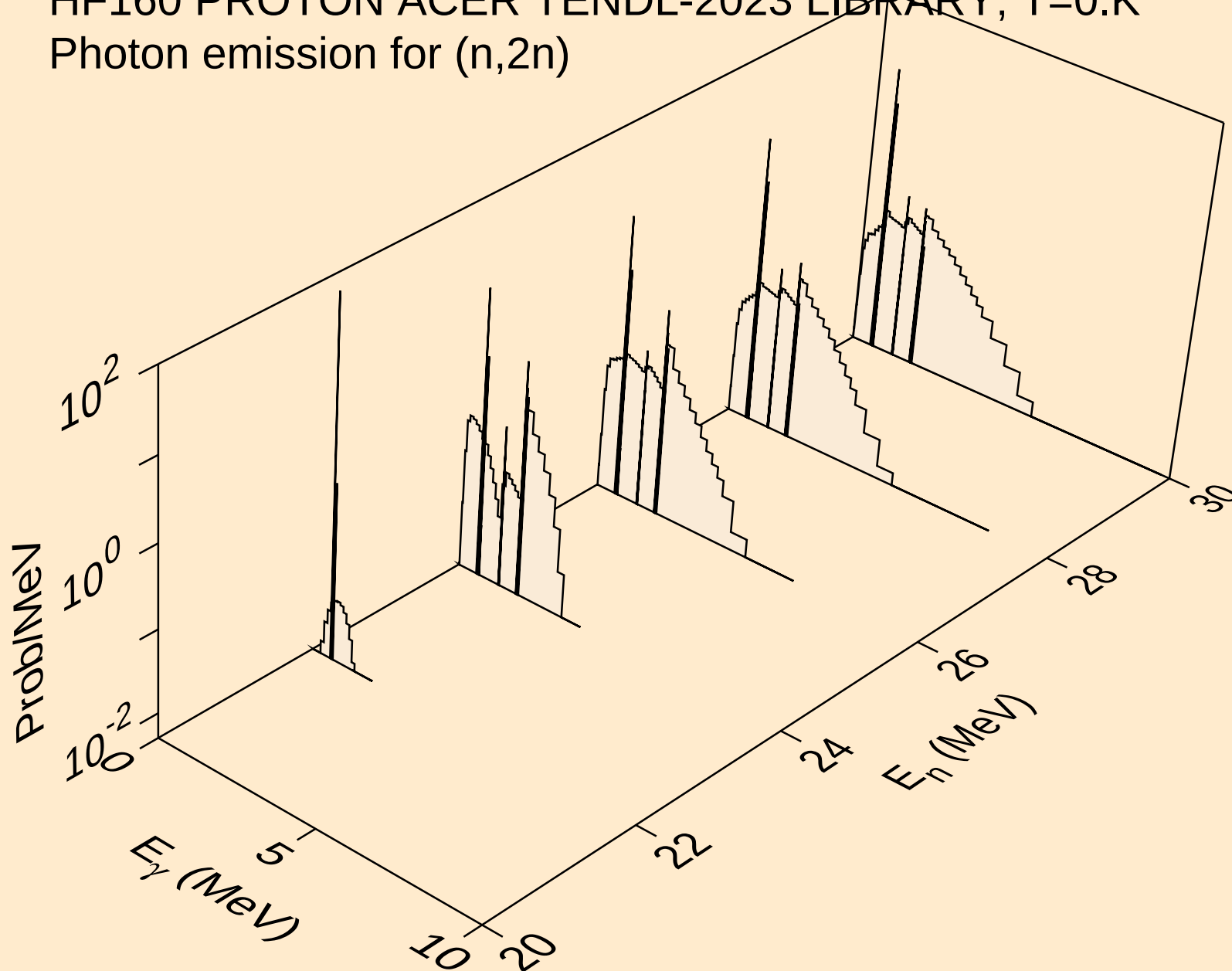


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (z,x)

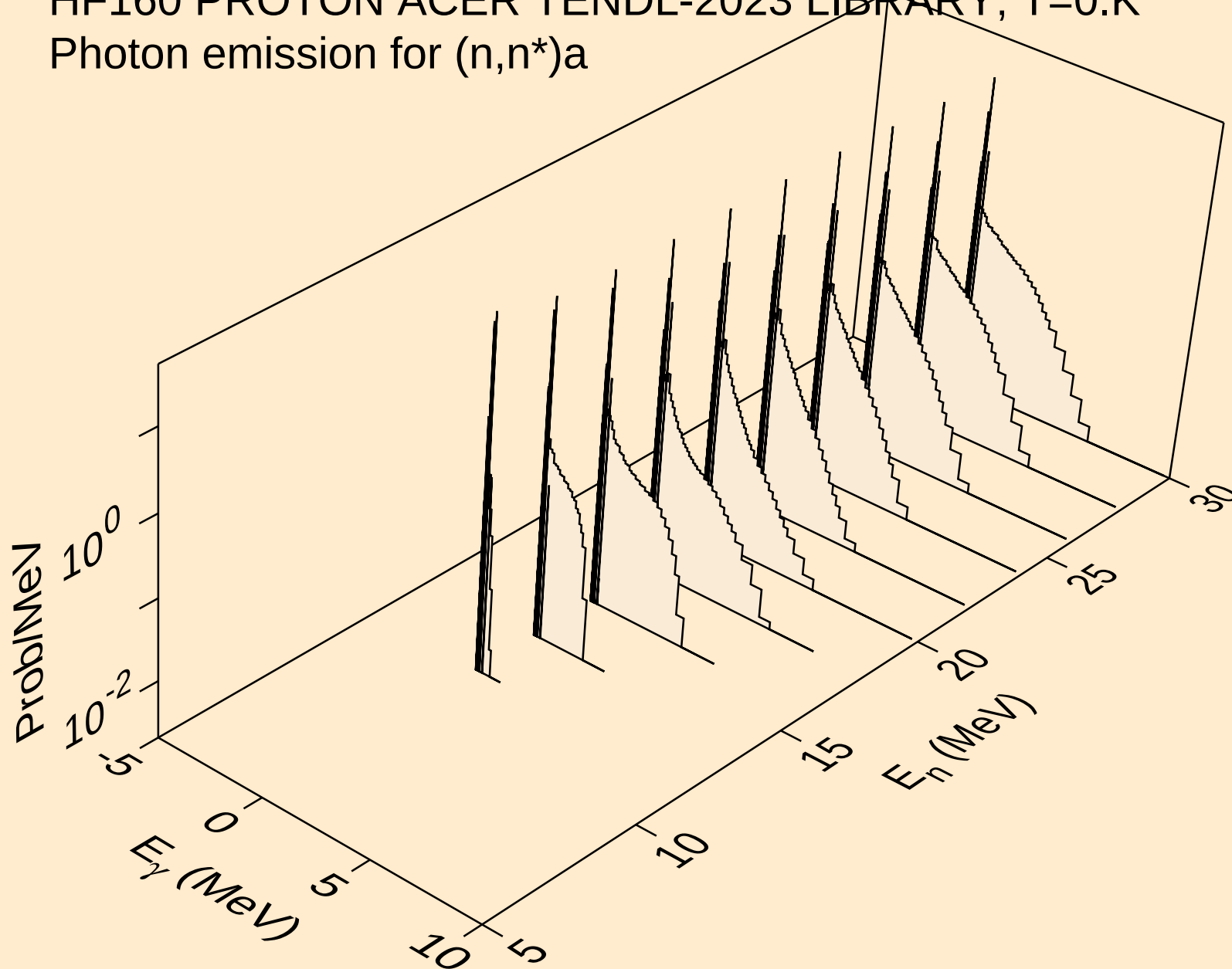


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2n)



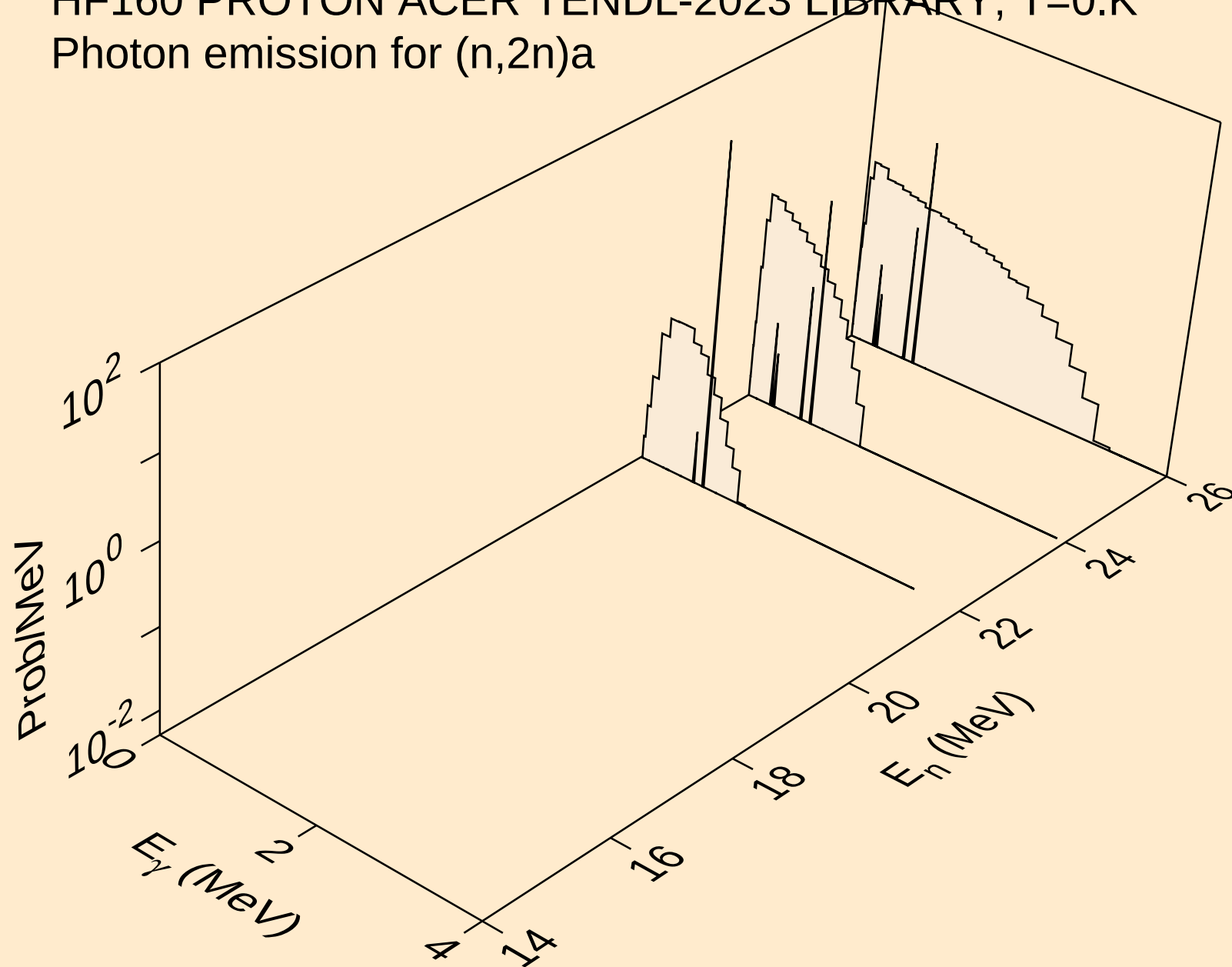
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)a



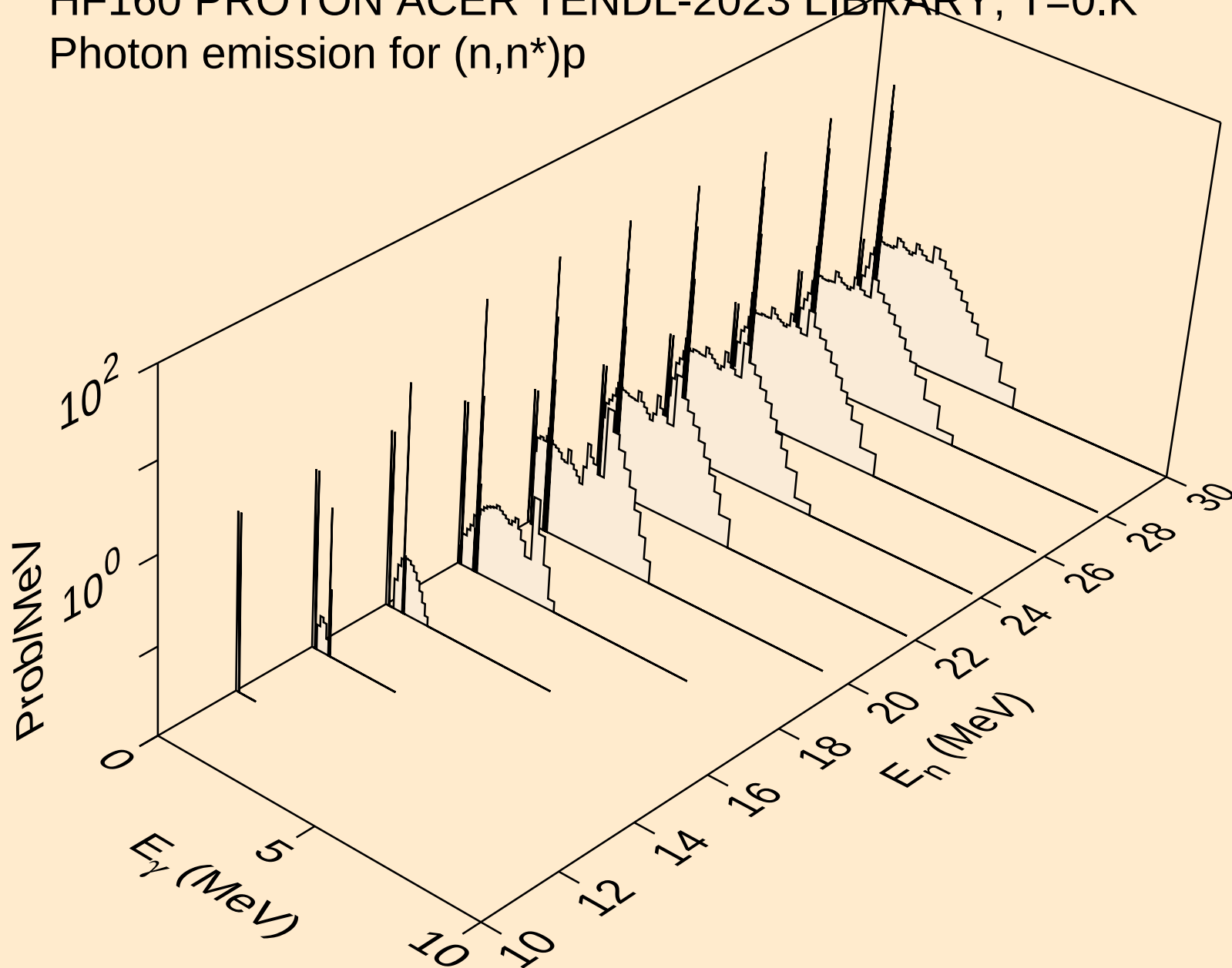
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2n) $\alpha$

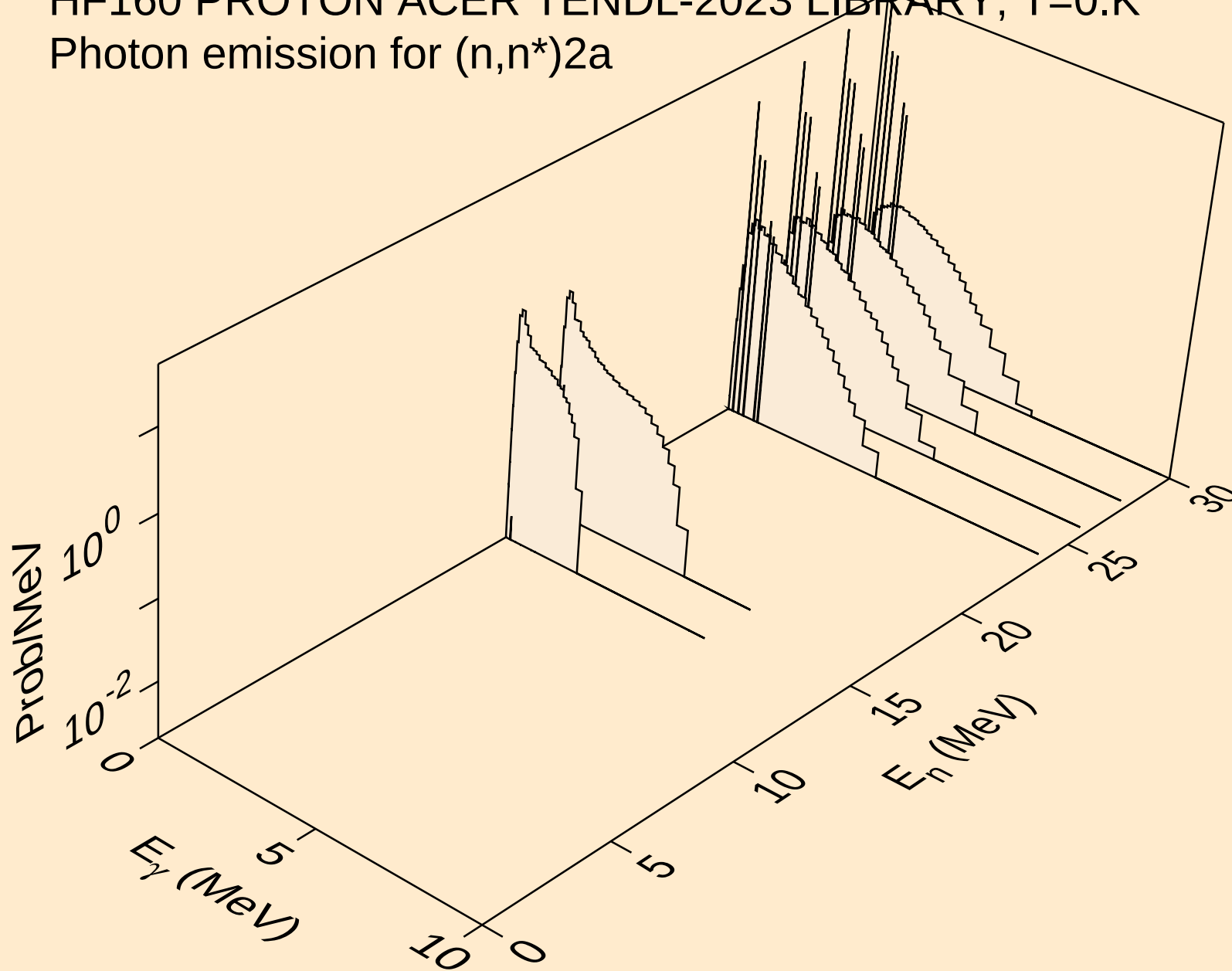




HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for  $(n,n^*)p$

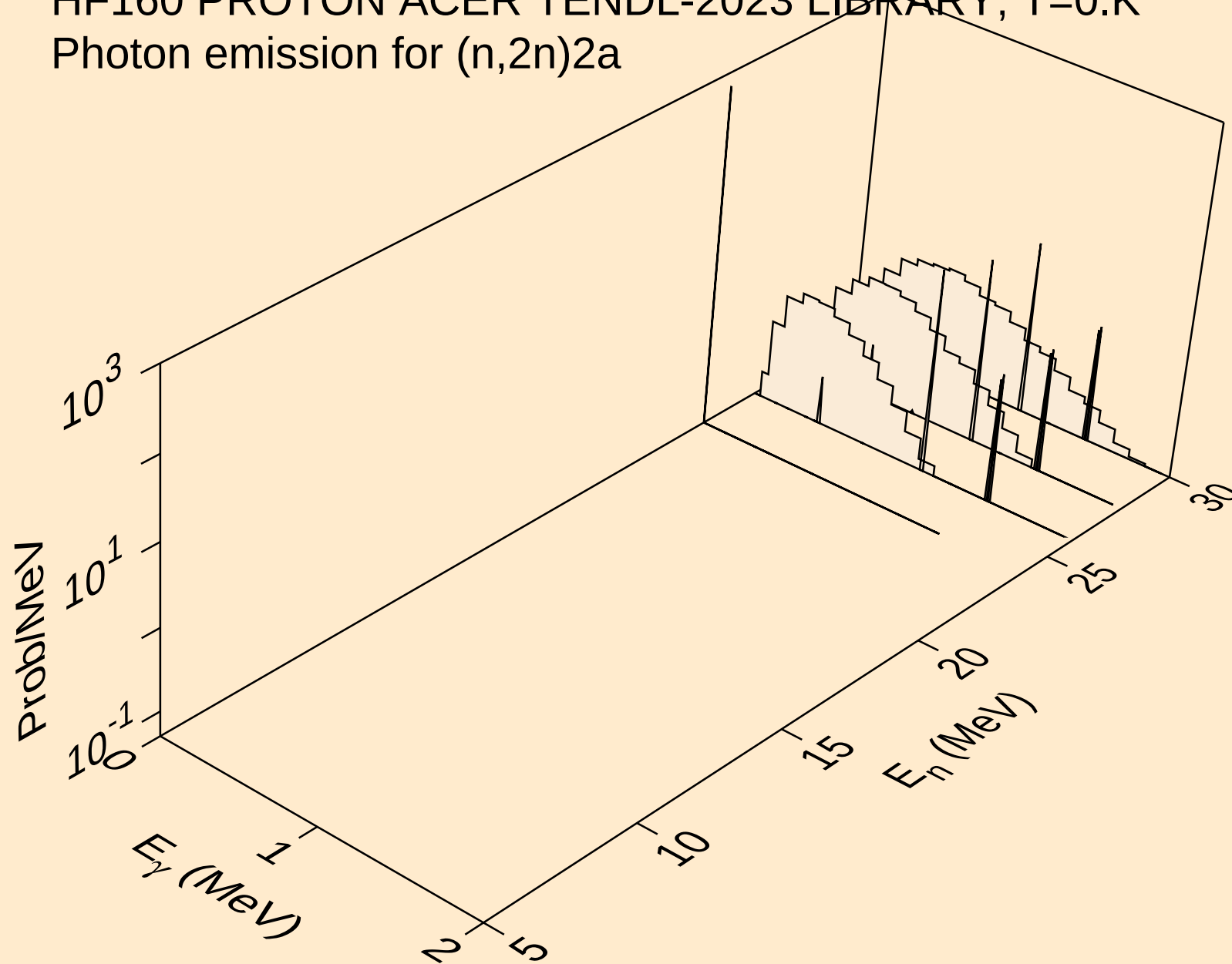


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



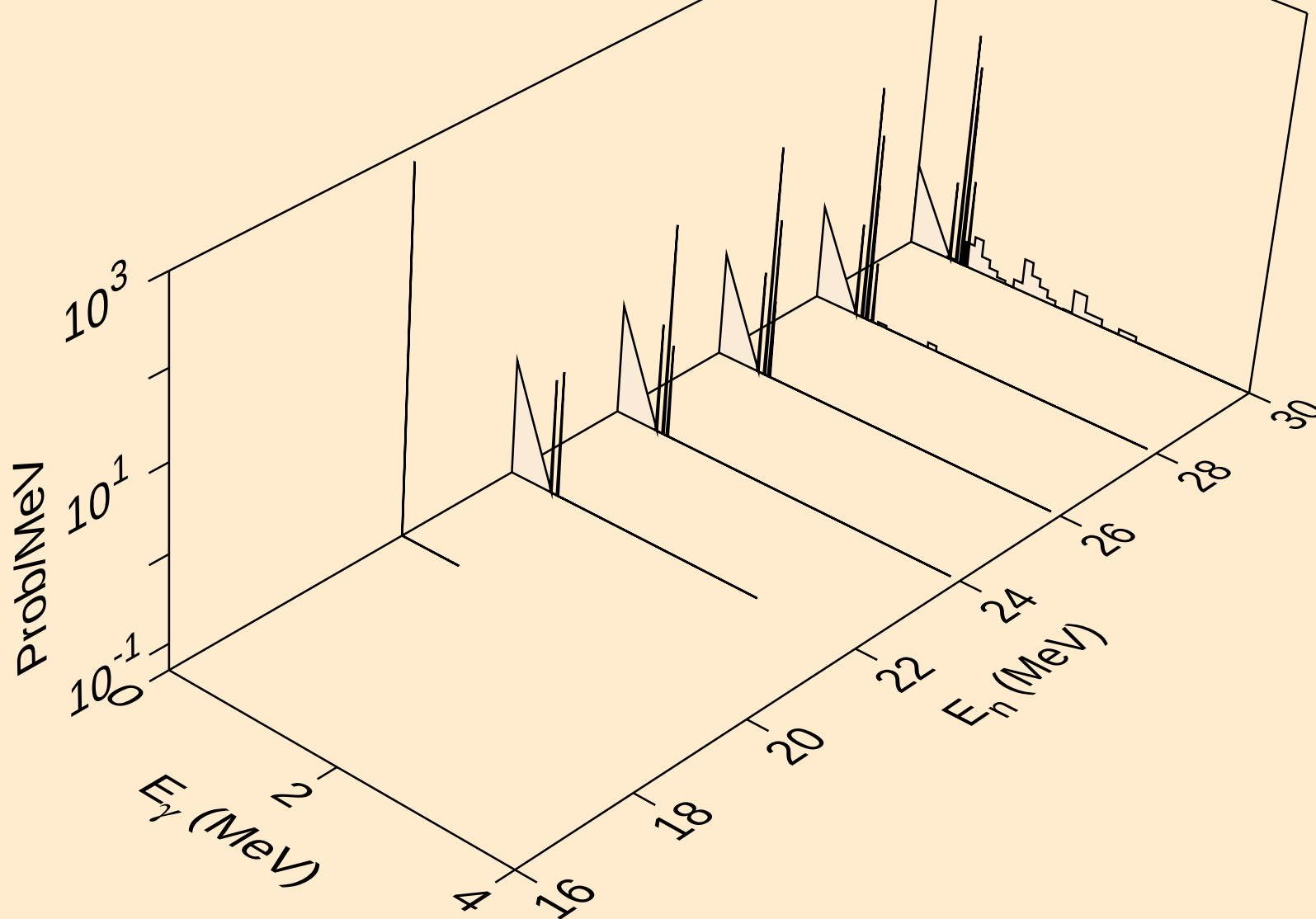
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,2n)2a



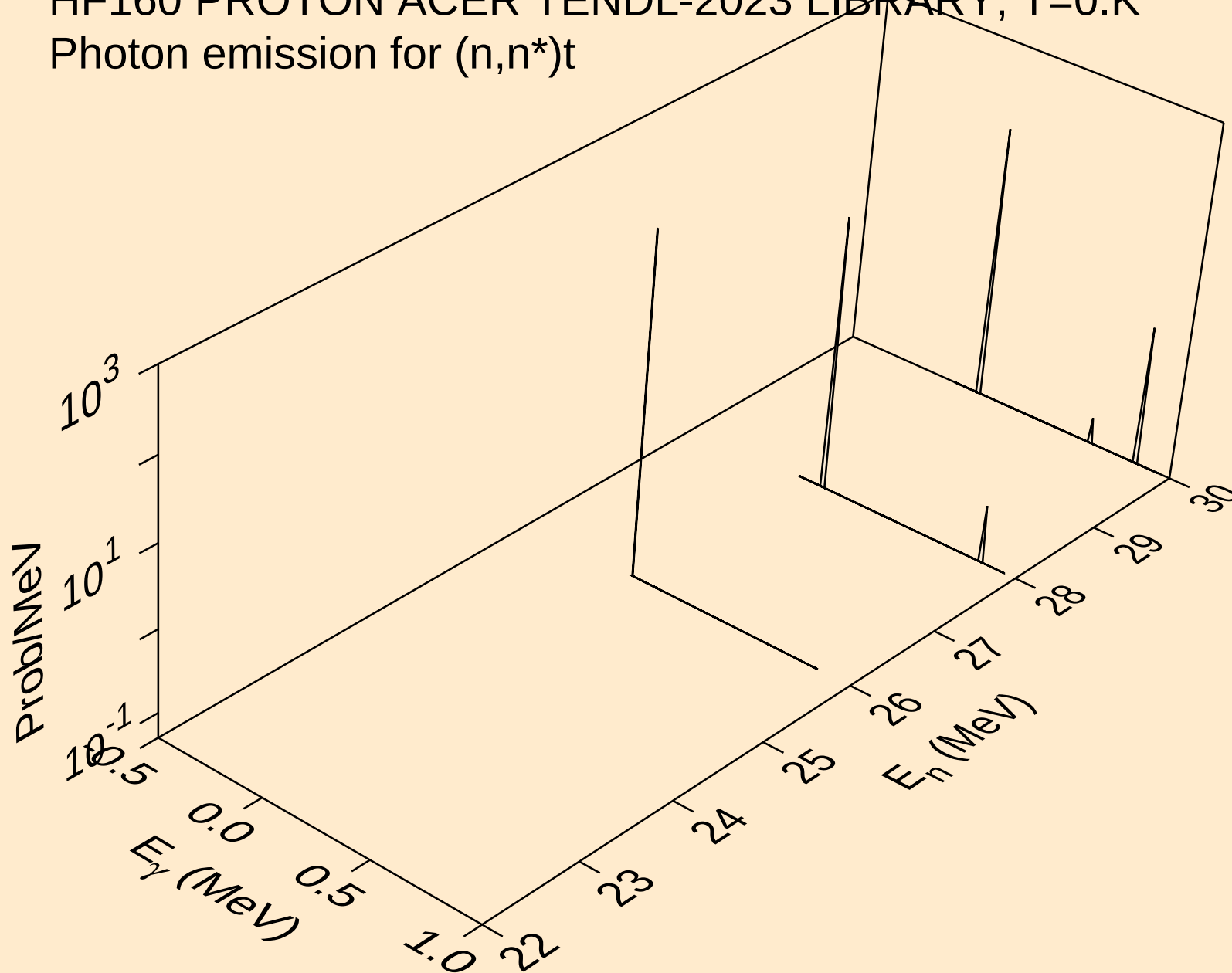
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)d



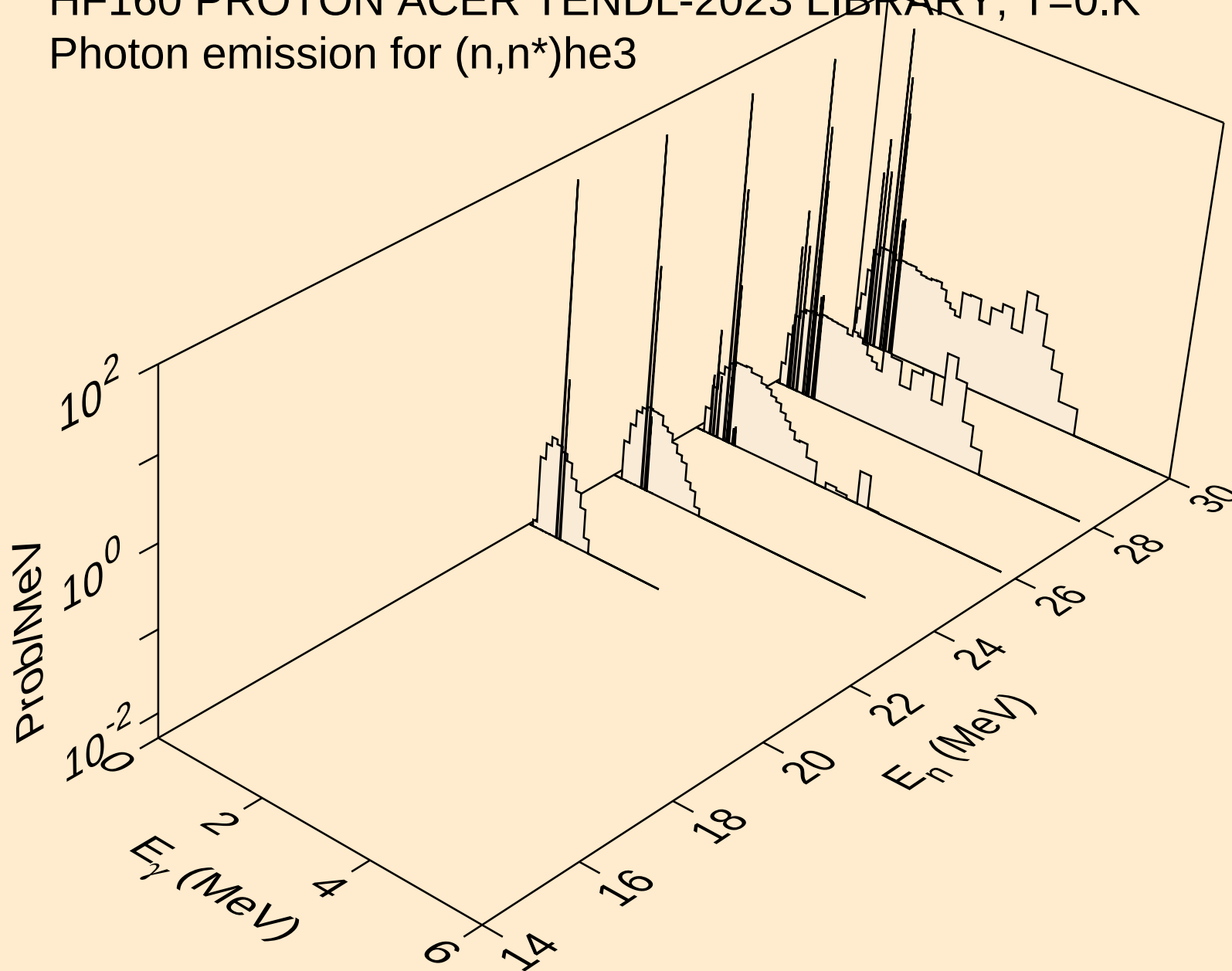
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)t

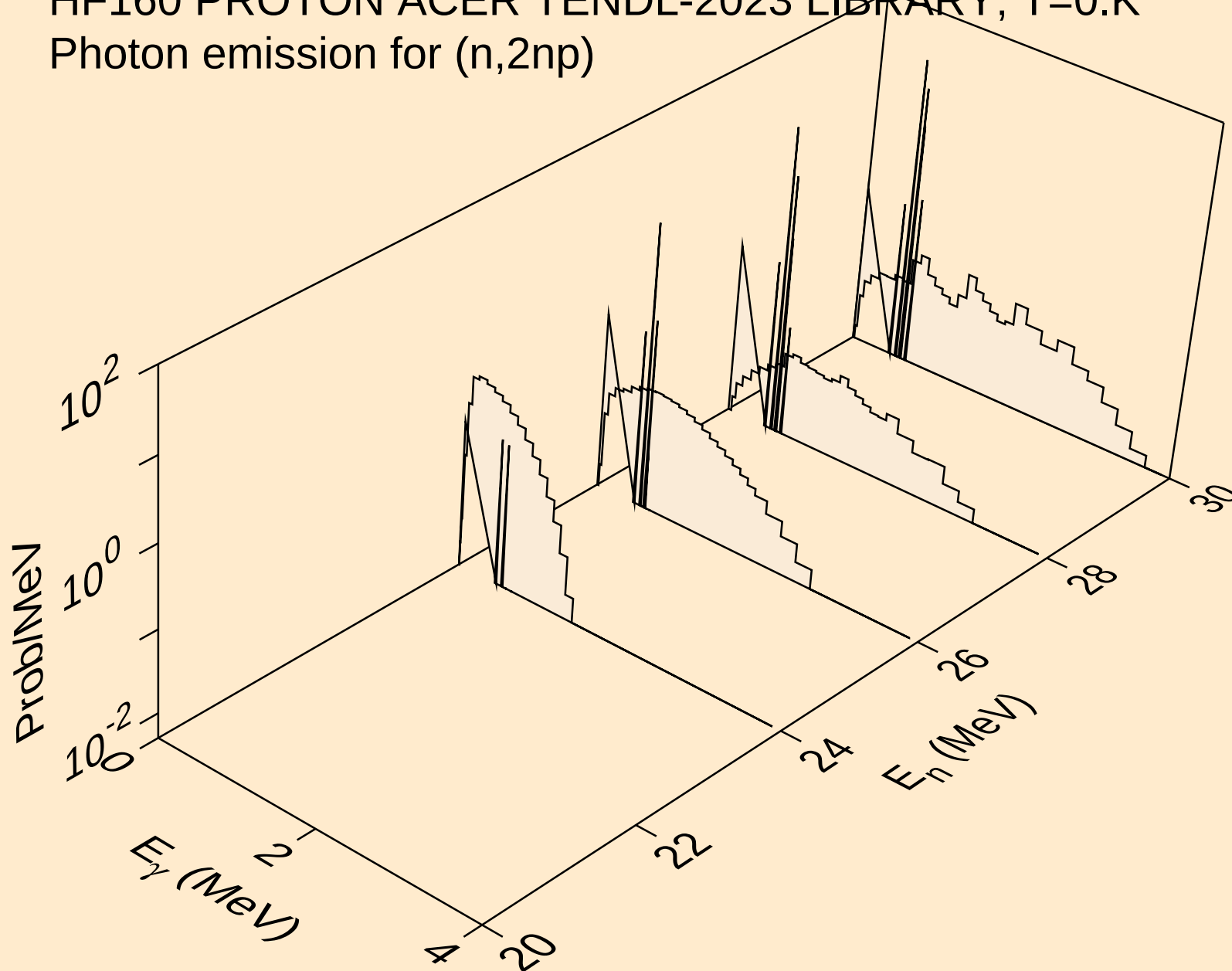


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

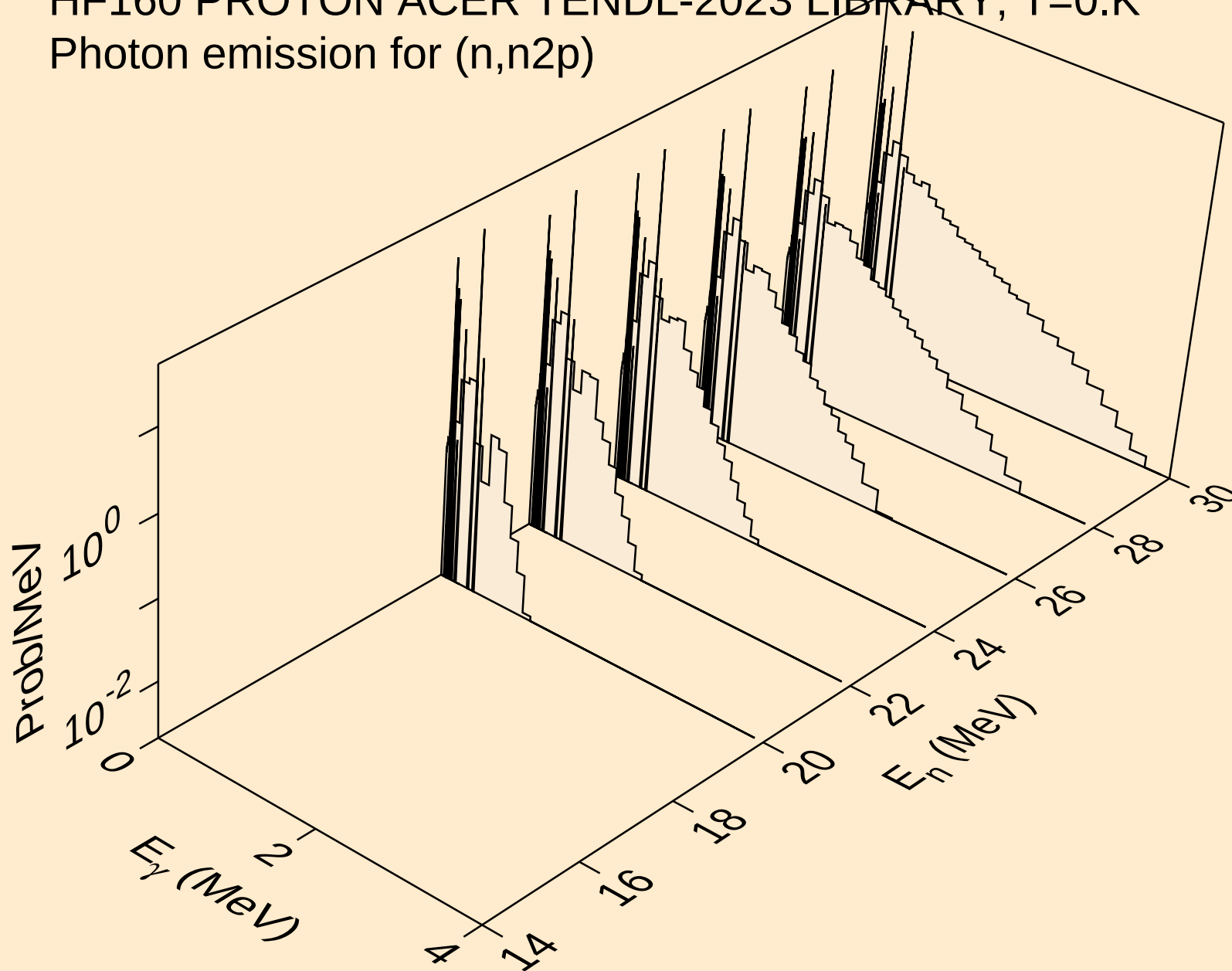
Photon emission for (n,n\*)he3



HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2np)

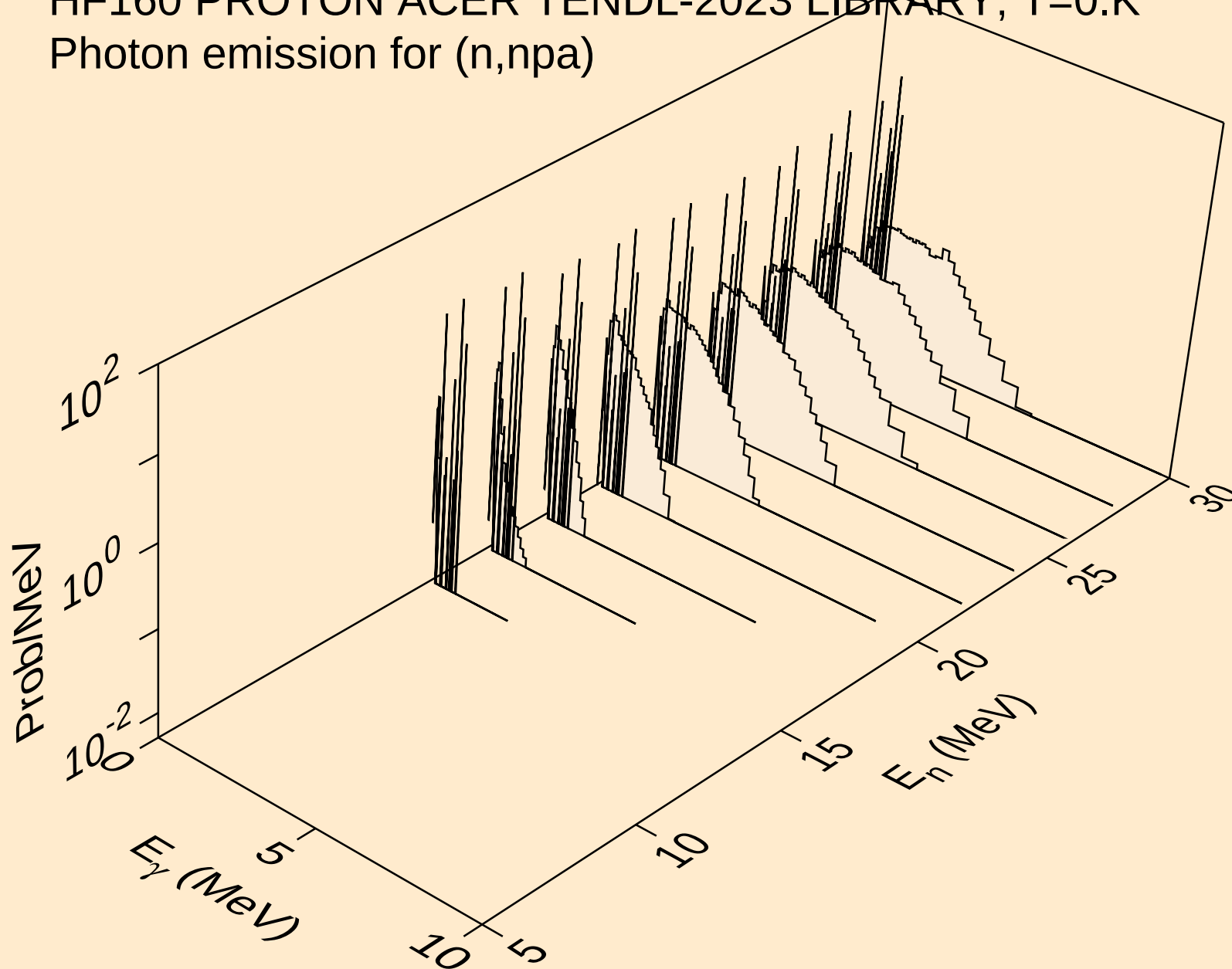


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,n2p)

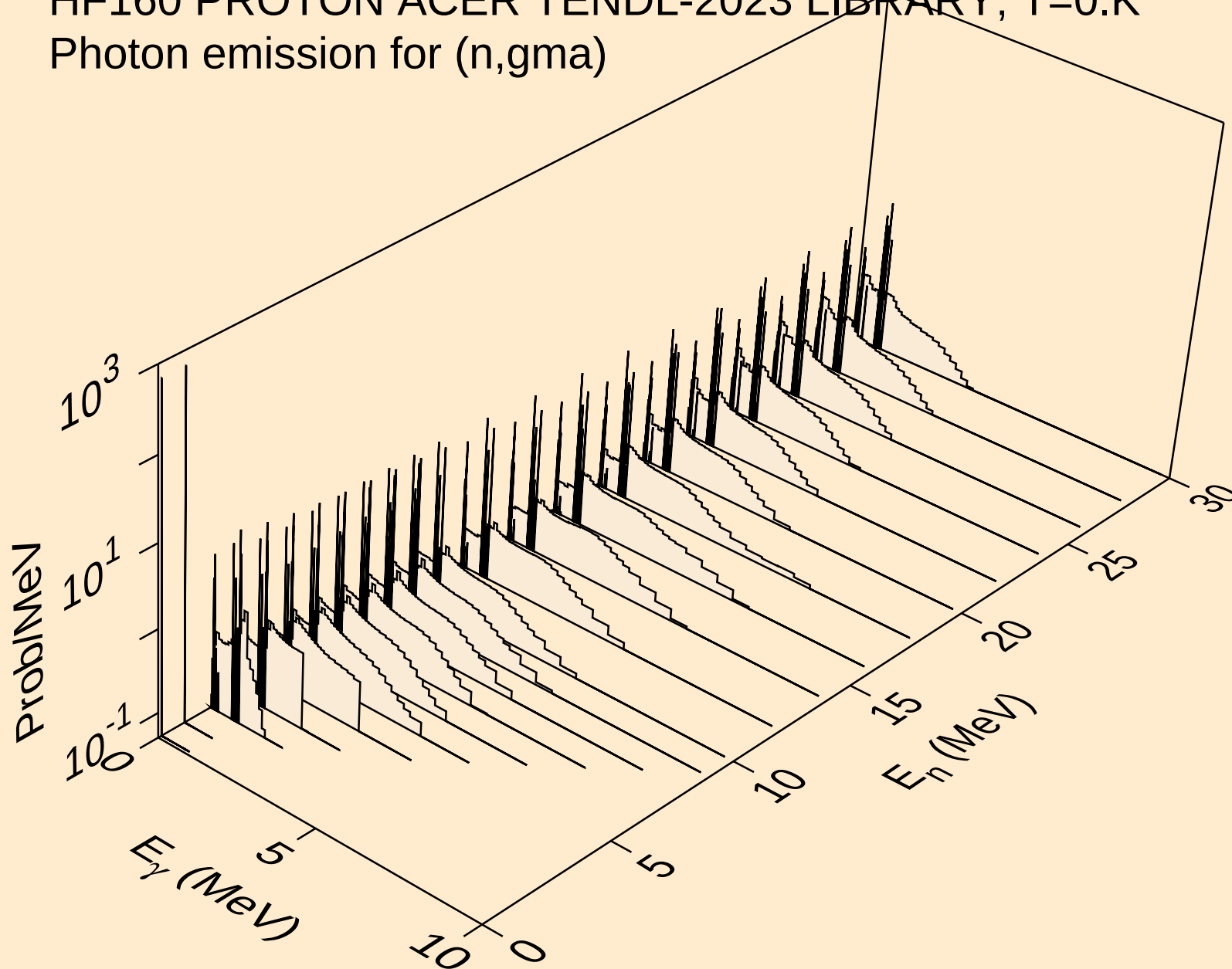




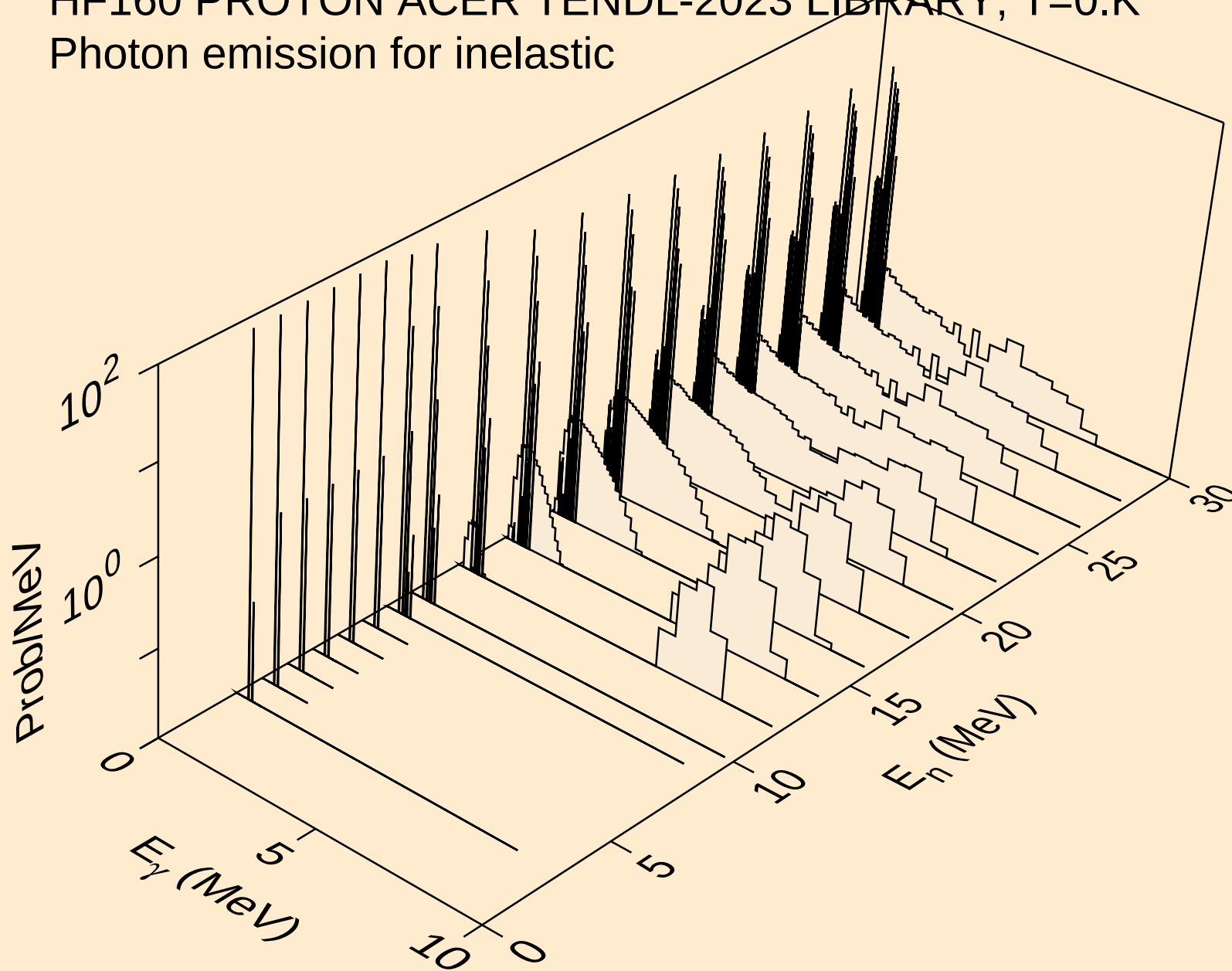
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,npa)



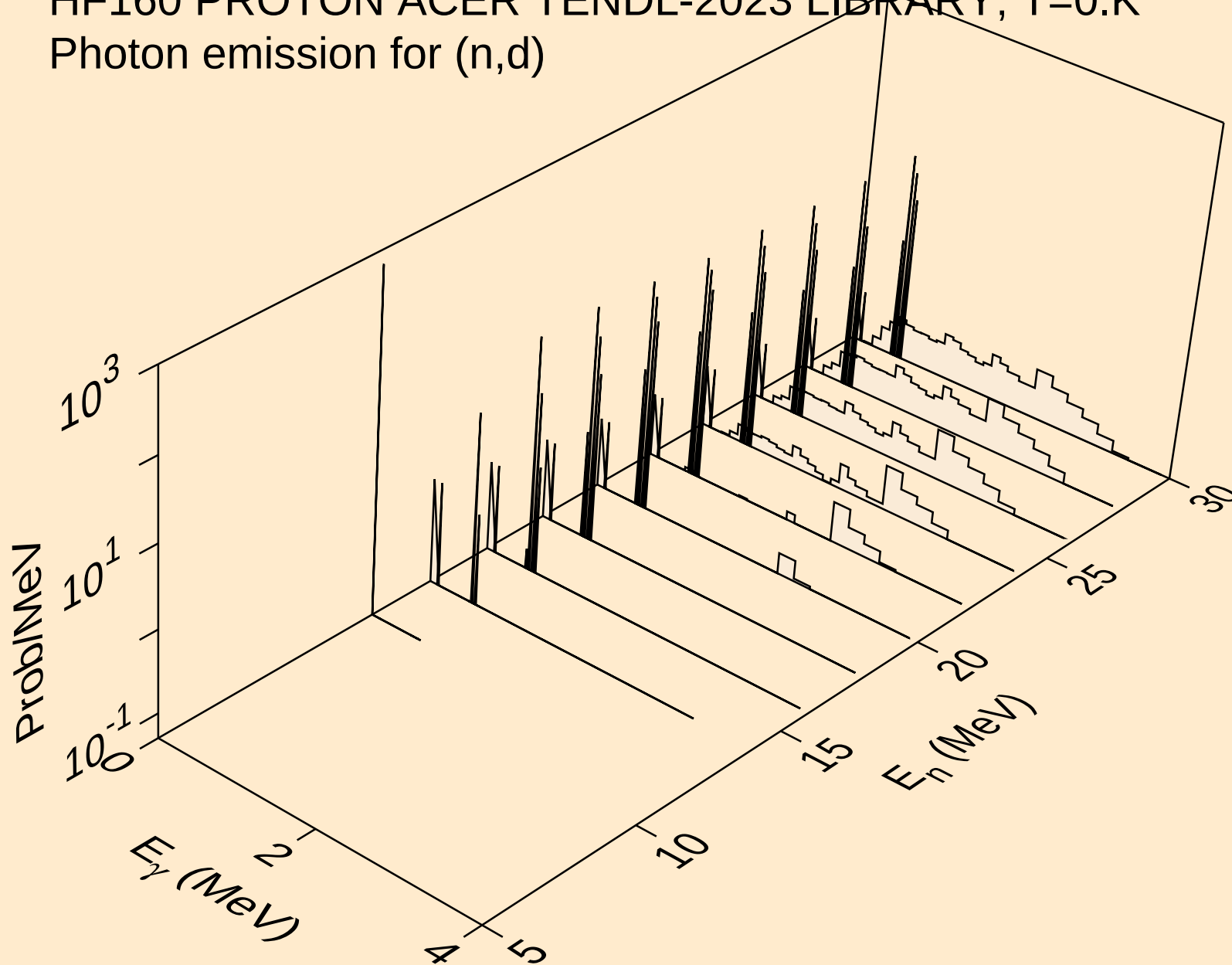
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Photon emission for (n,gma)



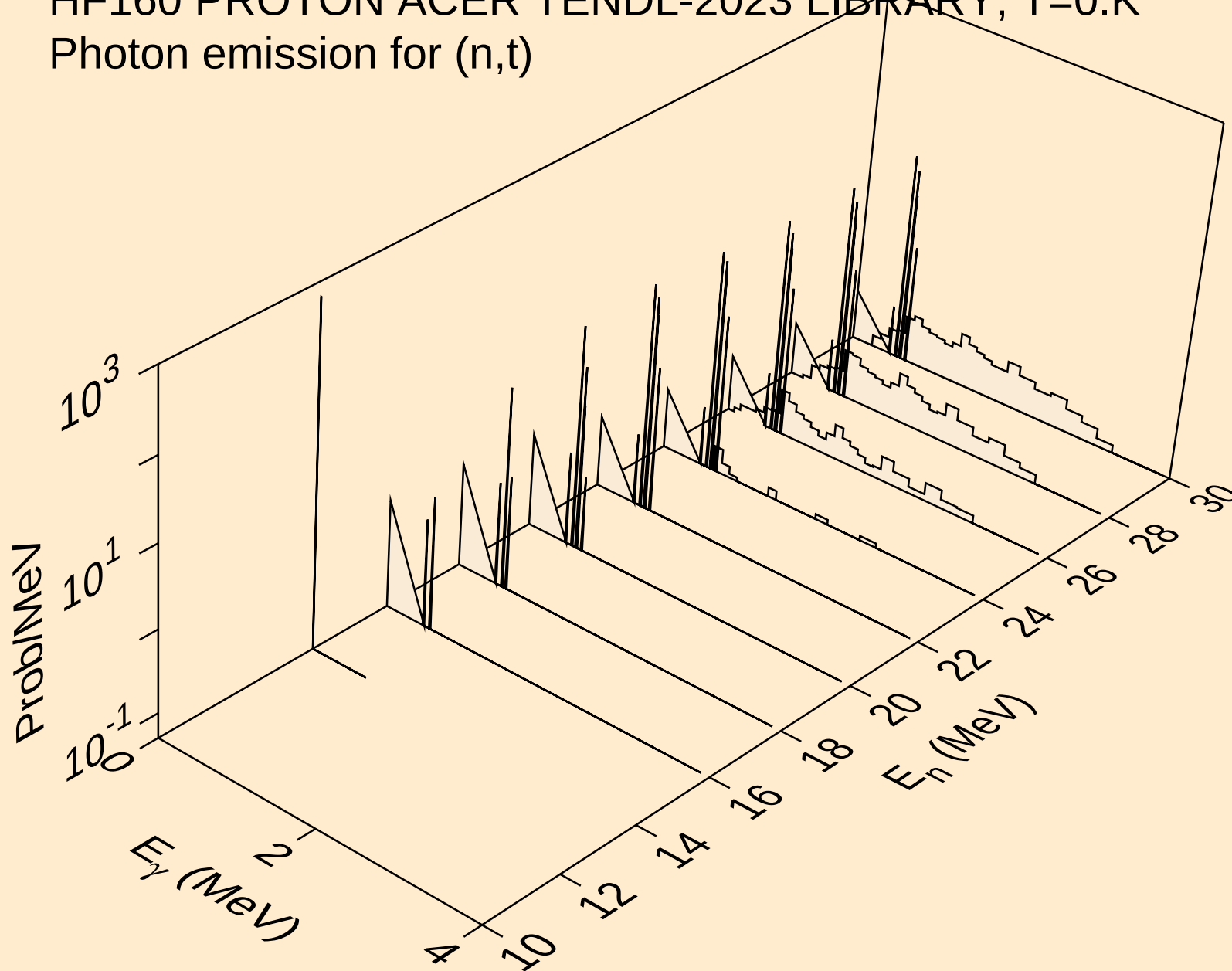
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for inelastic



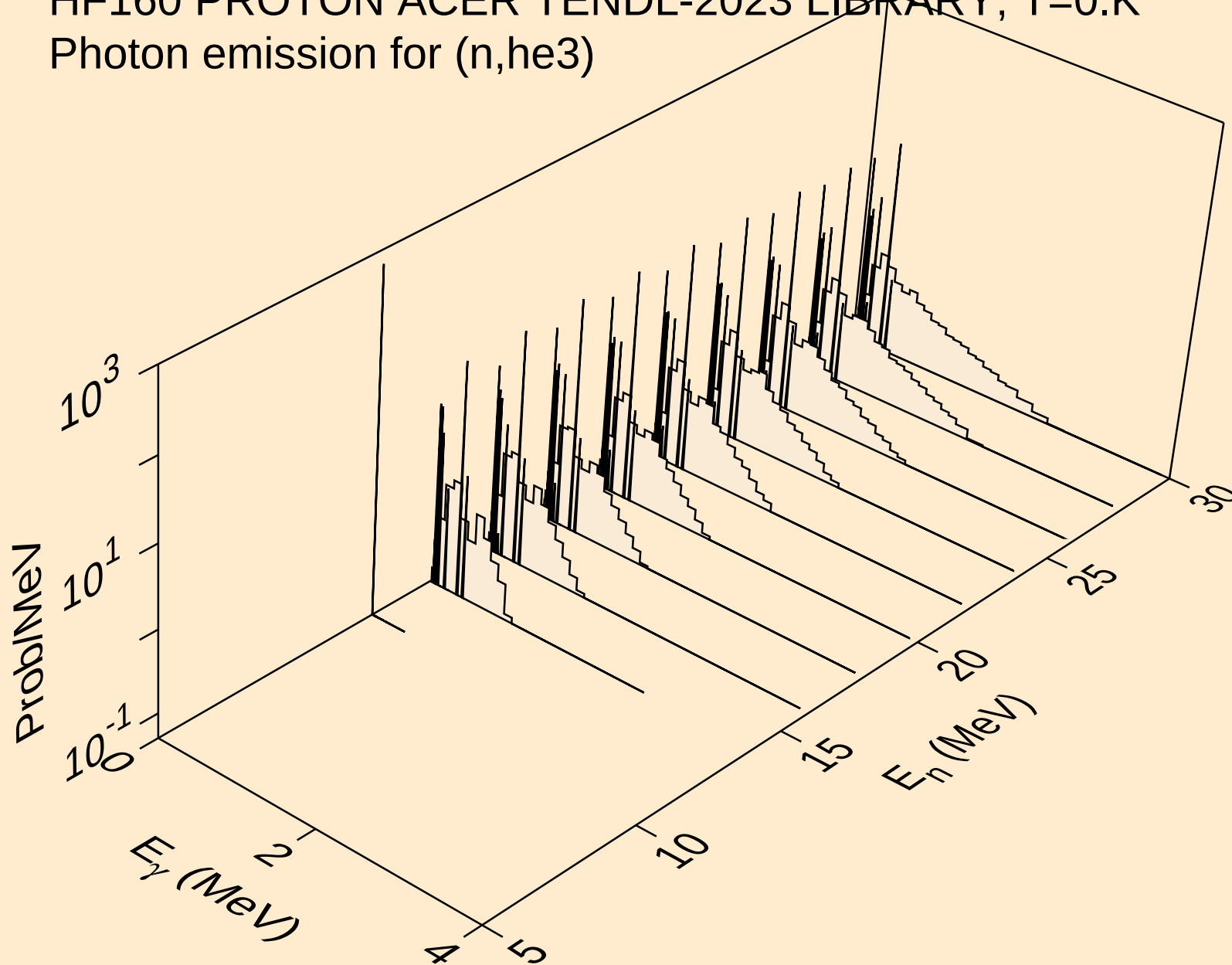
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,d)



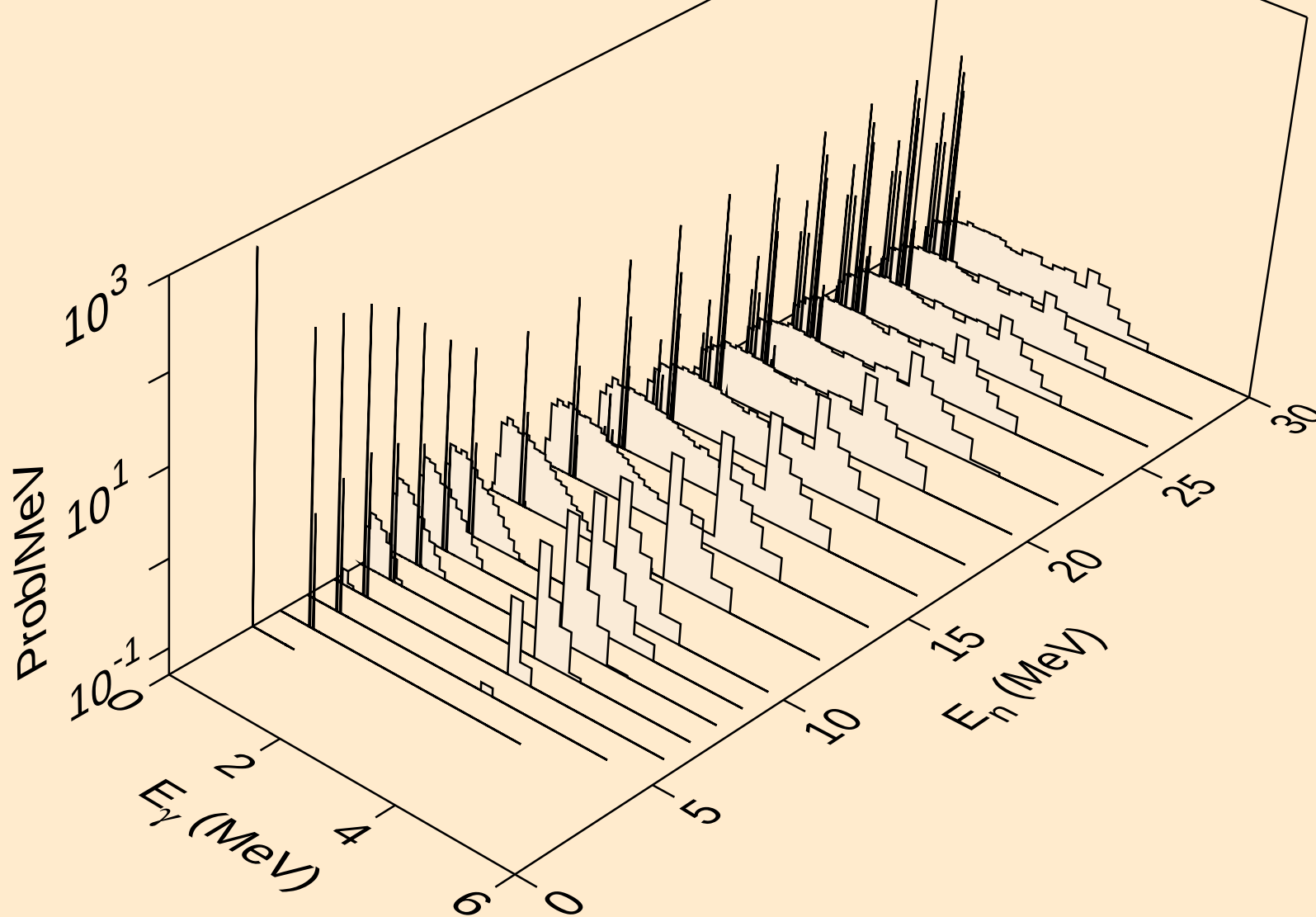
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Photon emission for (n,t)



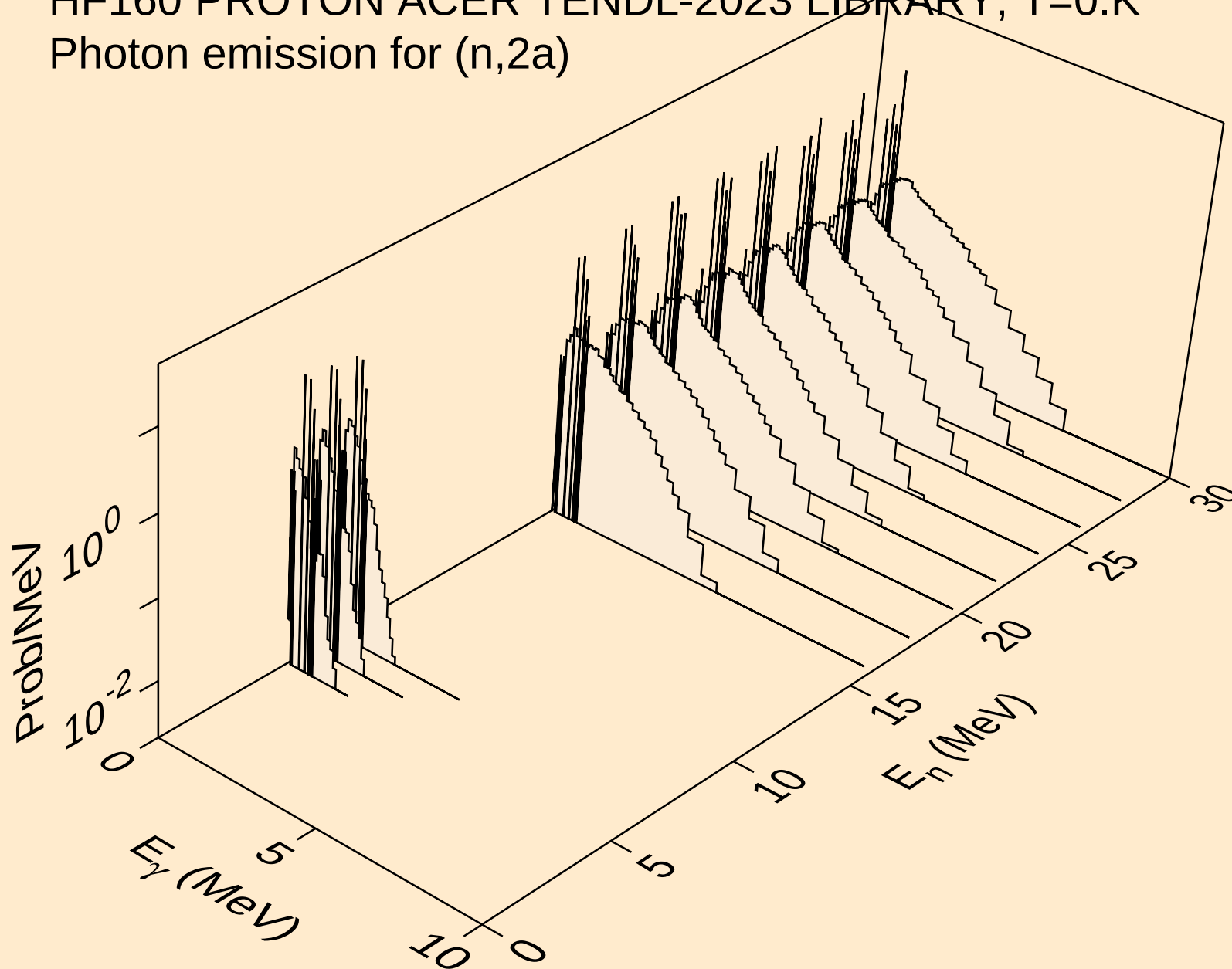
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,he3)



HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,a)

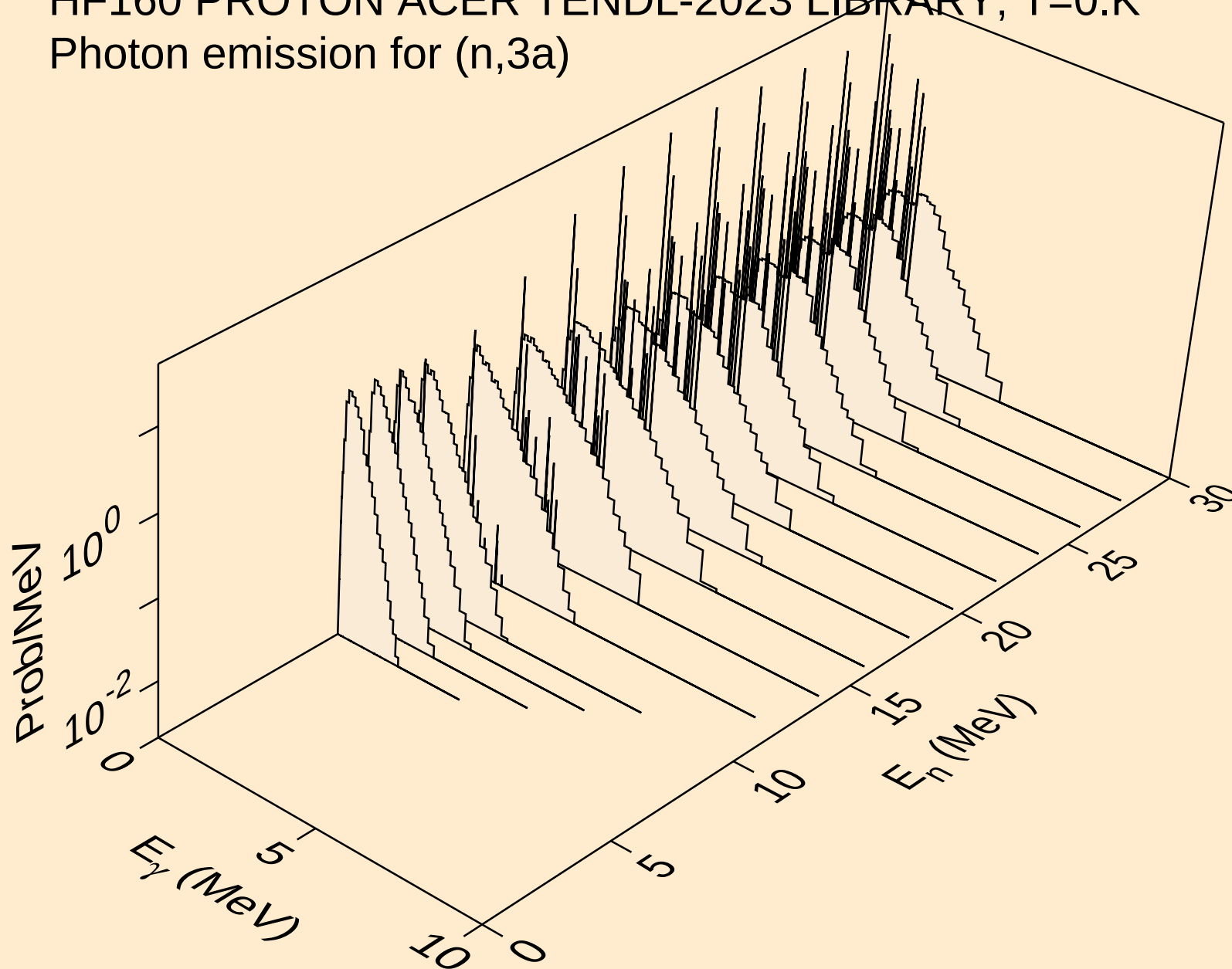


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2a)

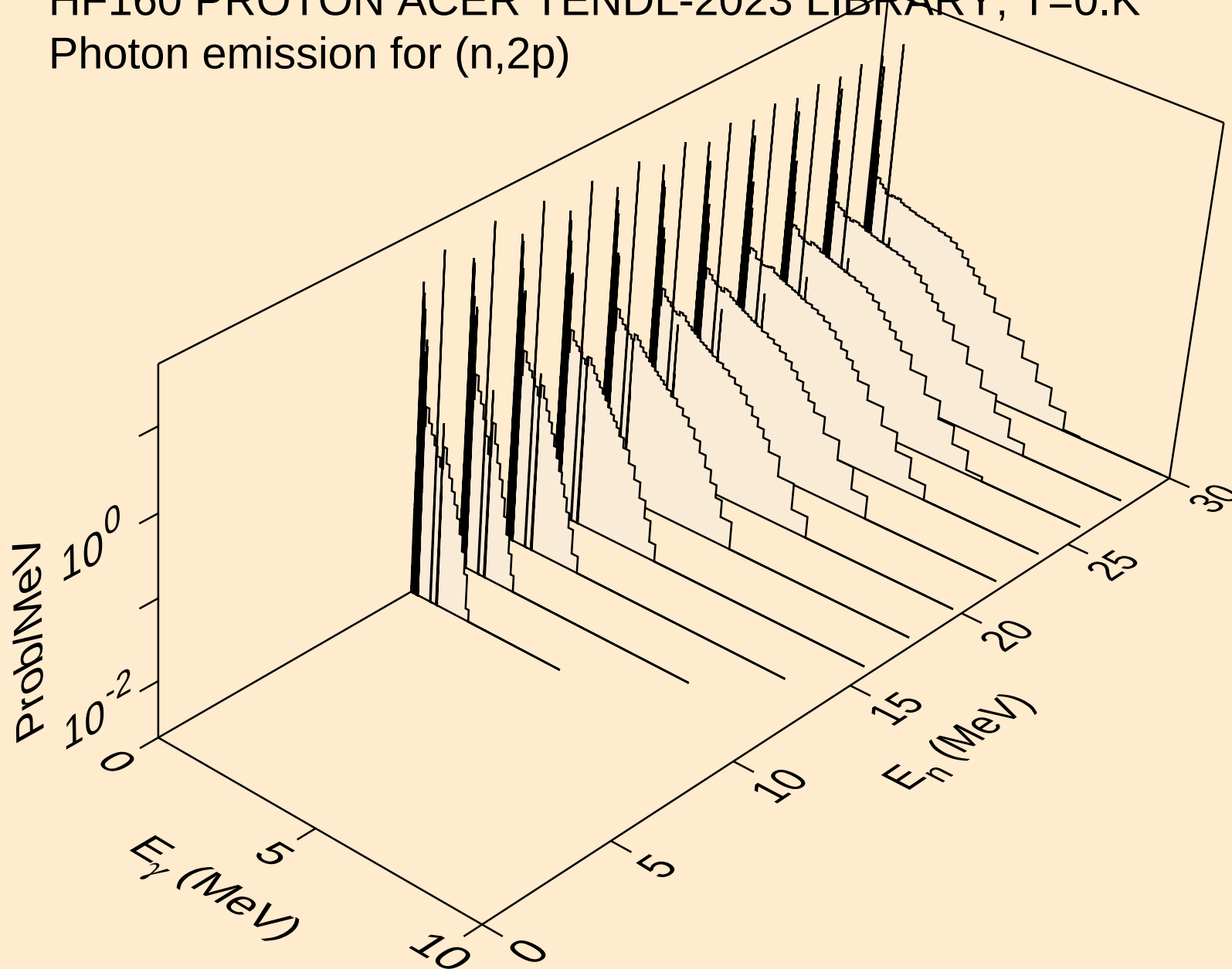




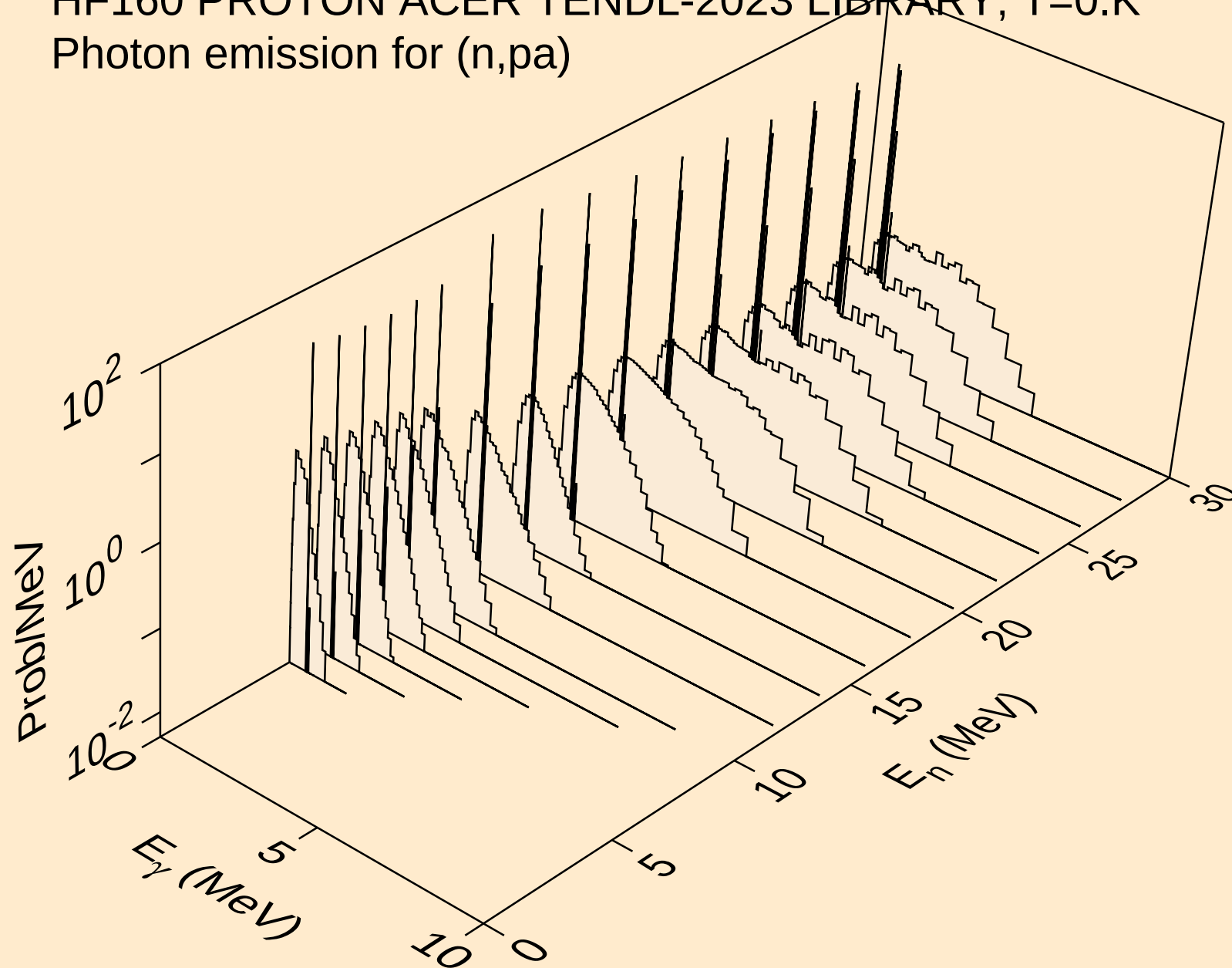
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Photon emission for (n,3a)



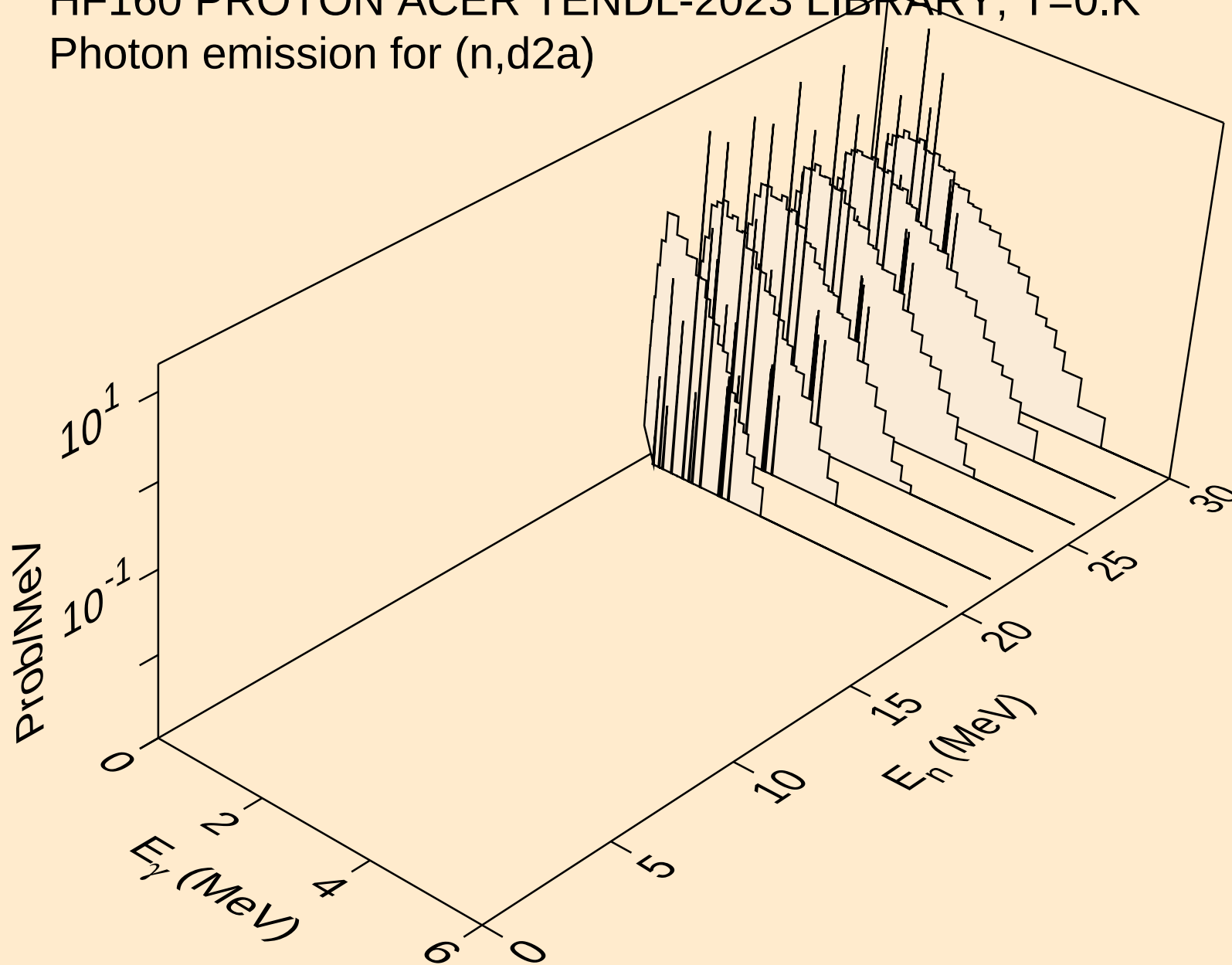
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2p)



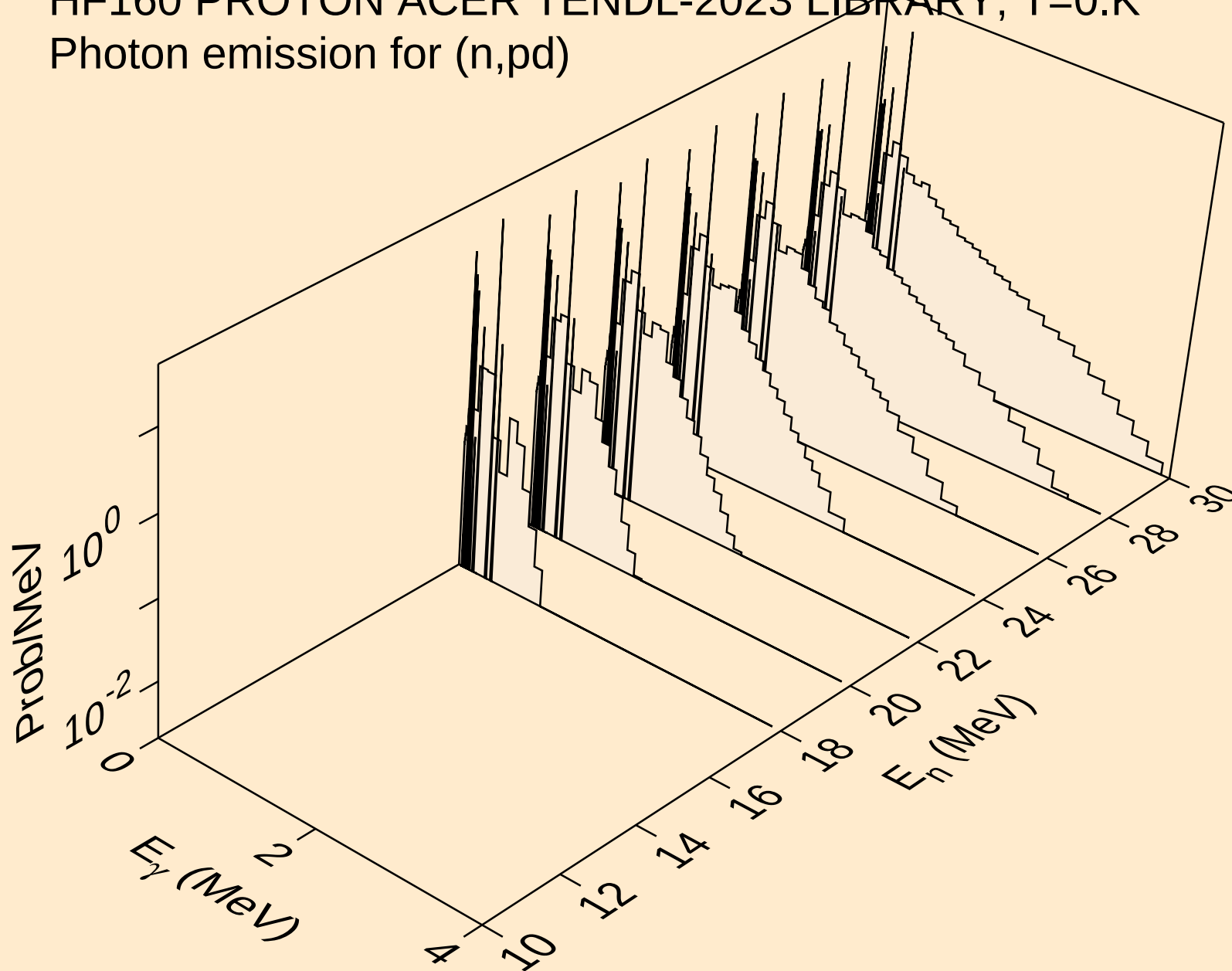
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,d2a)

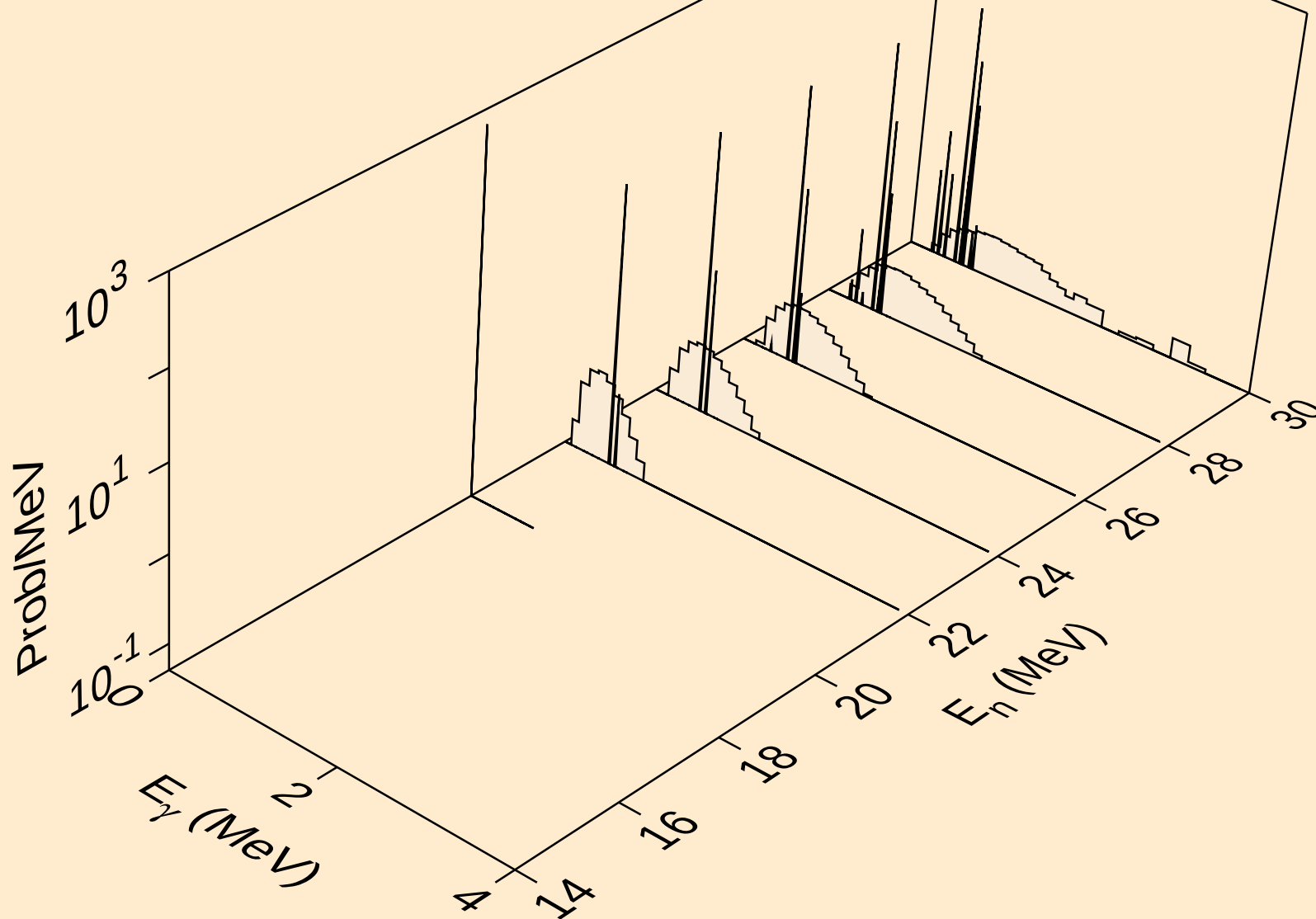


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,pd)

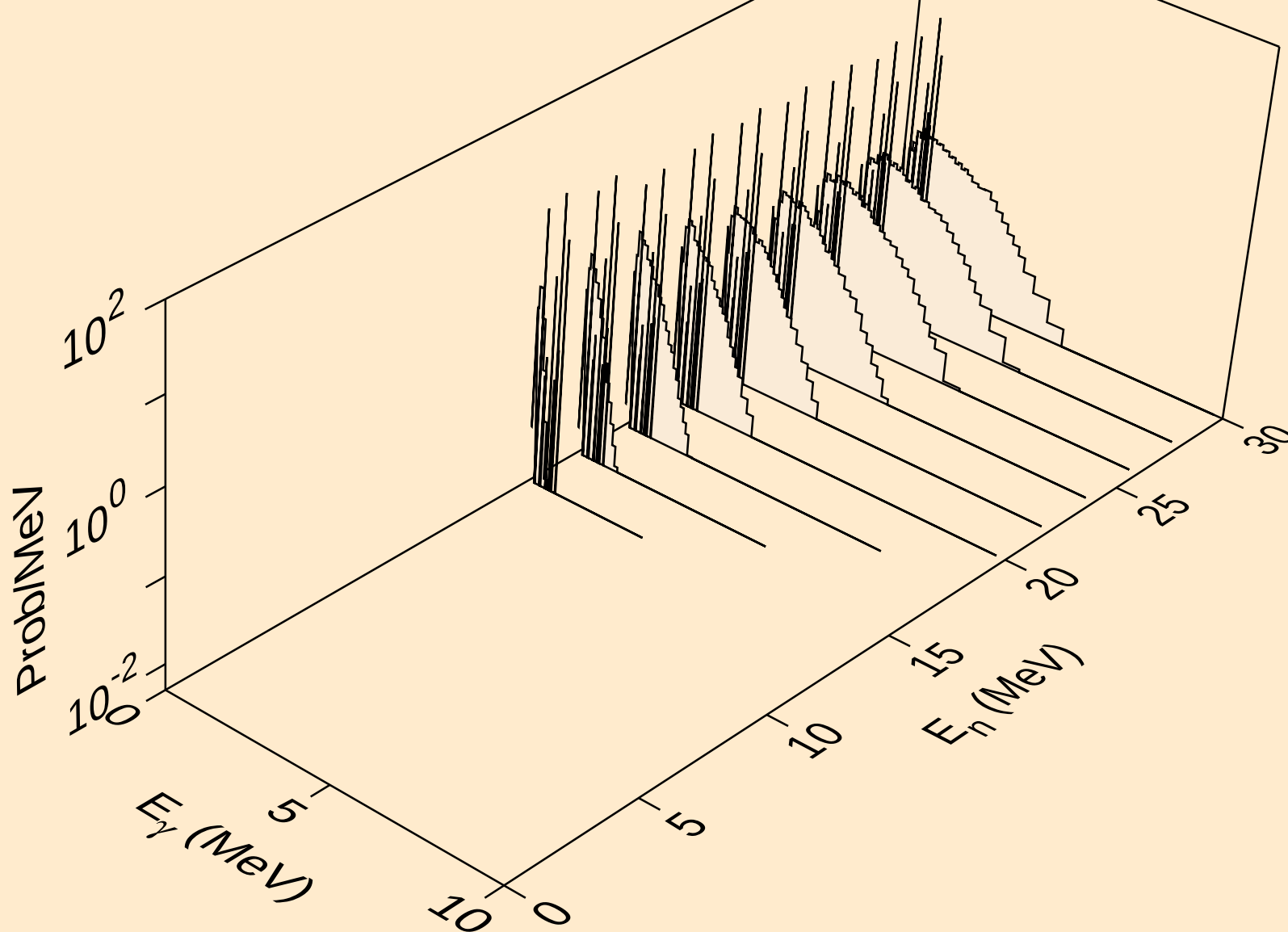


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,pt)

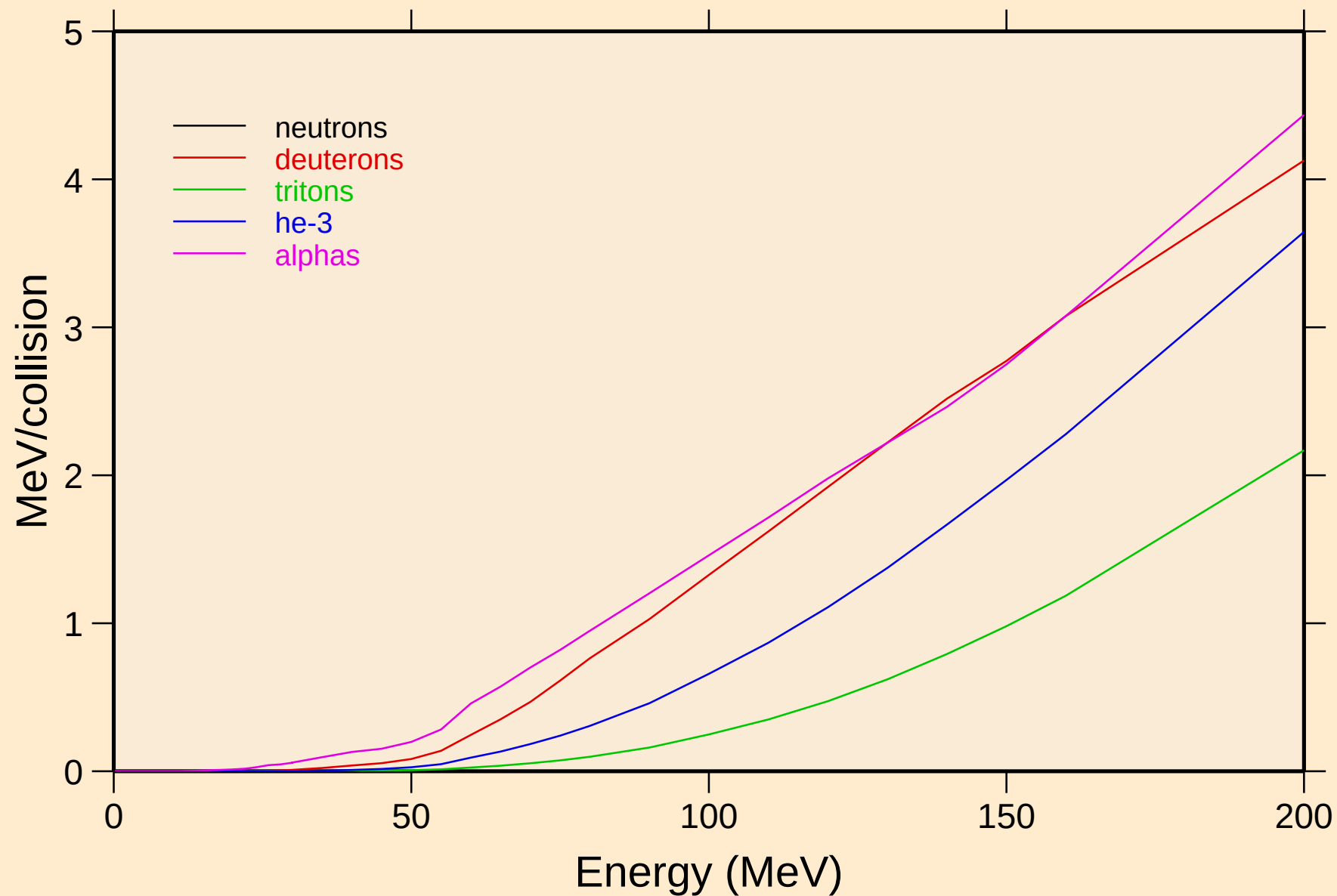


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

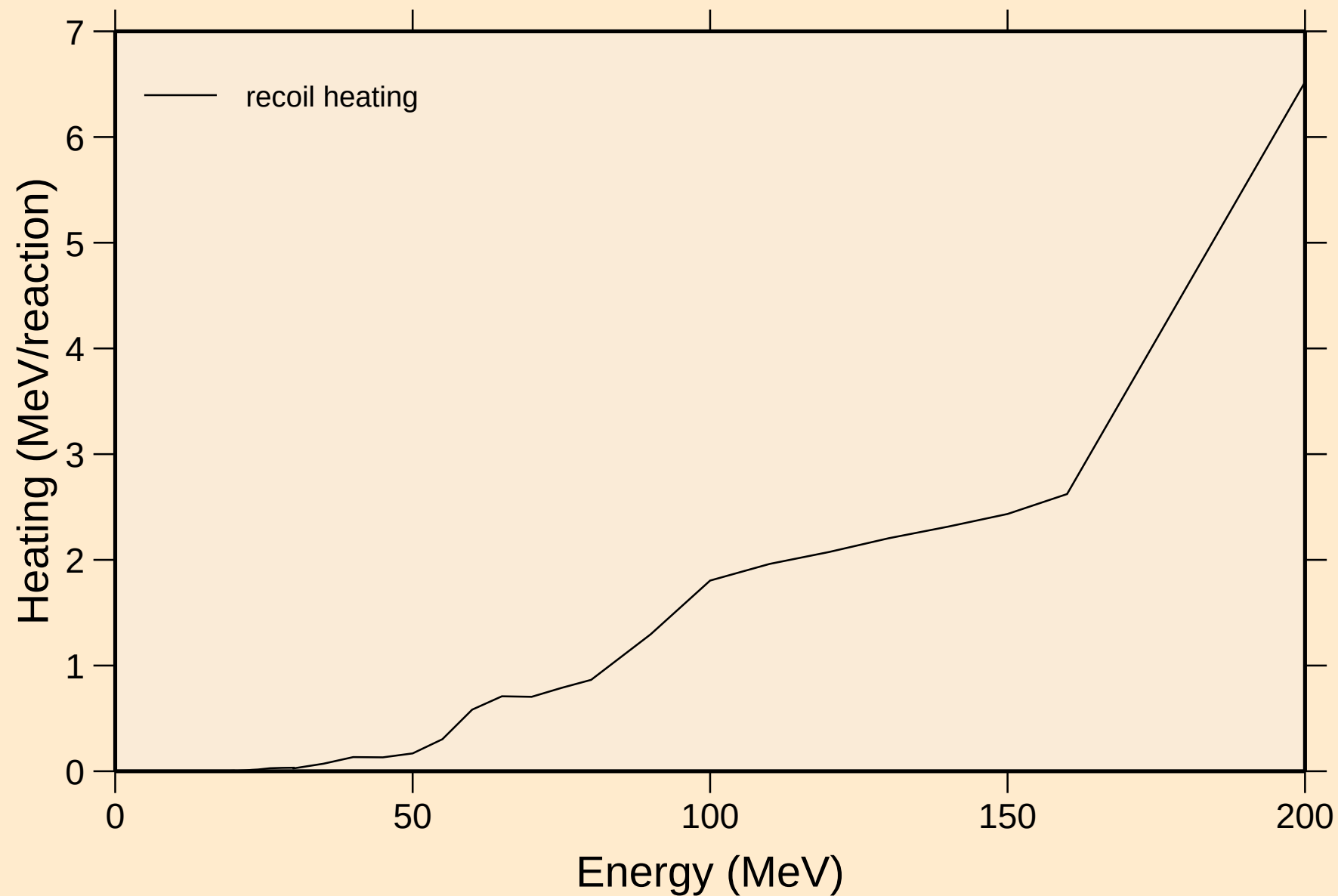
## Particle heating contributions





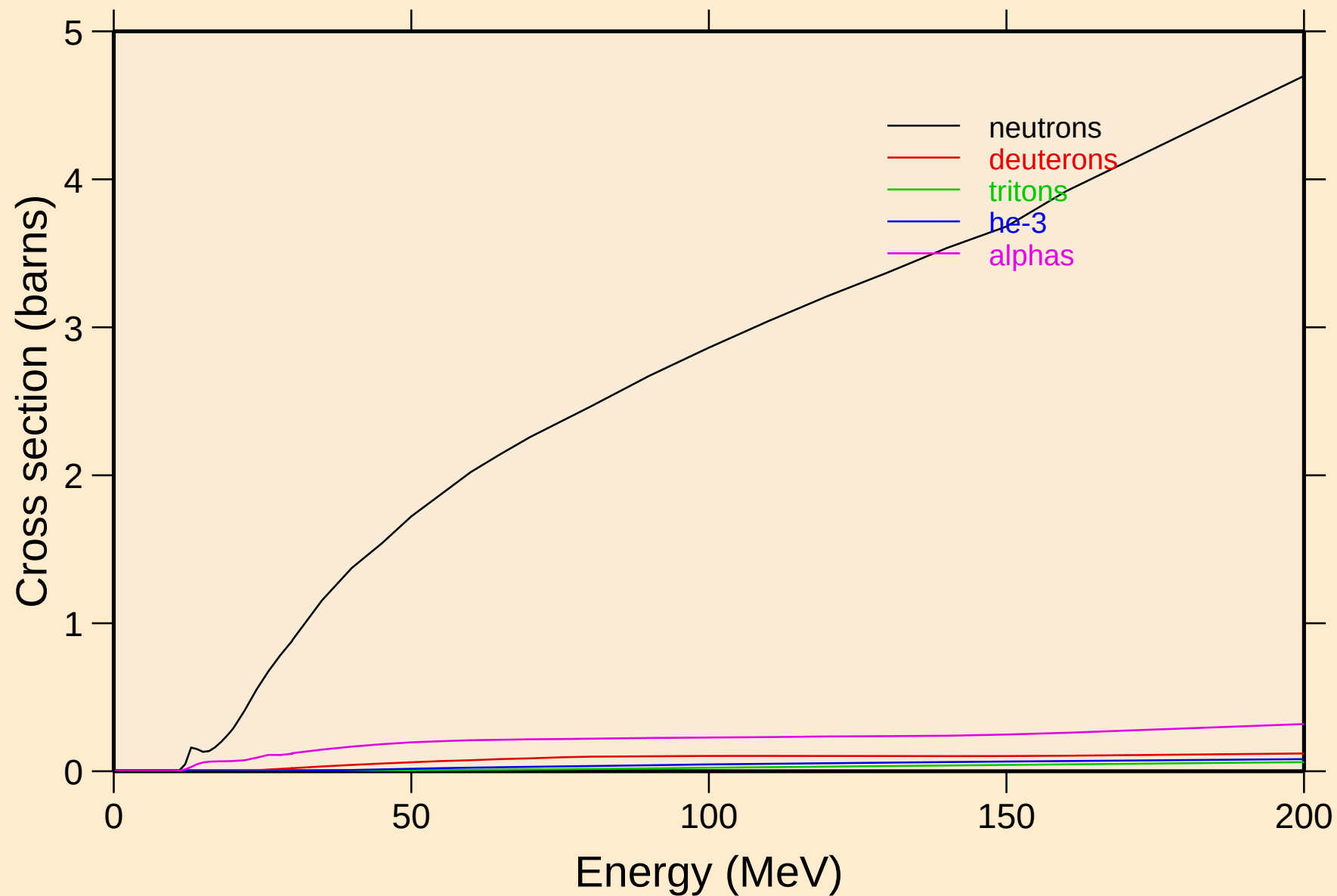
# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Recoil Heating

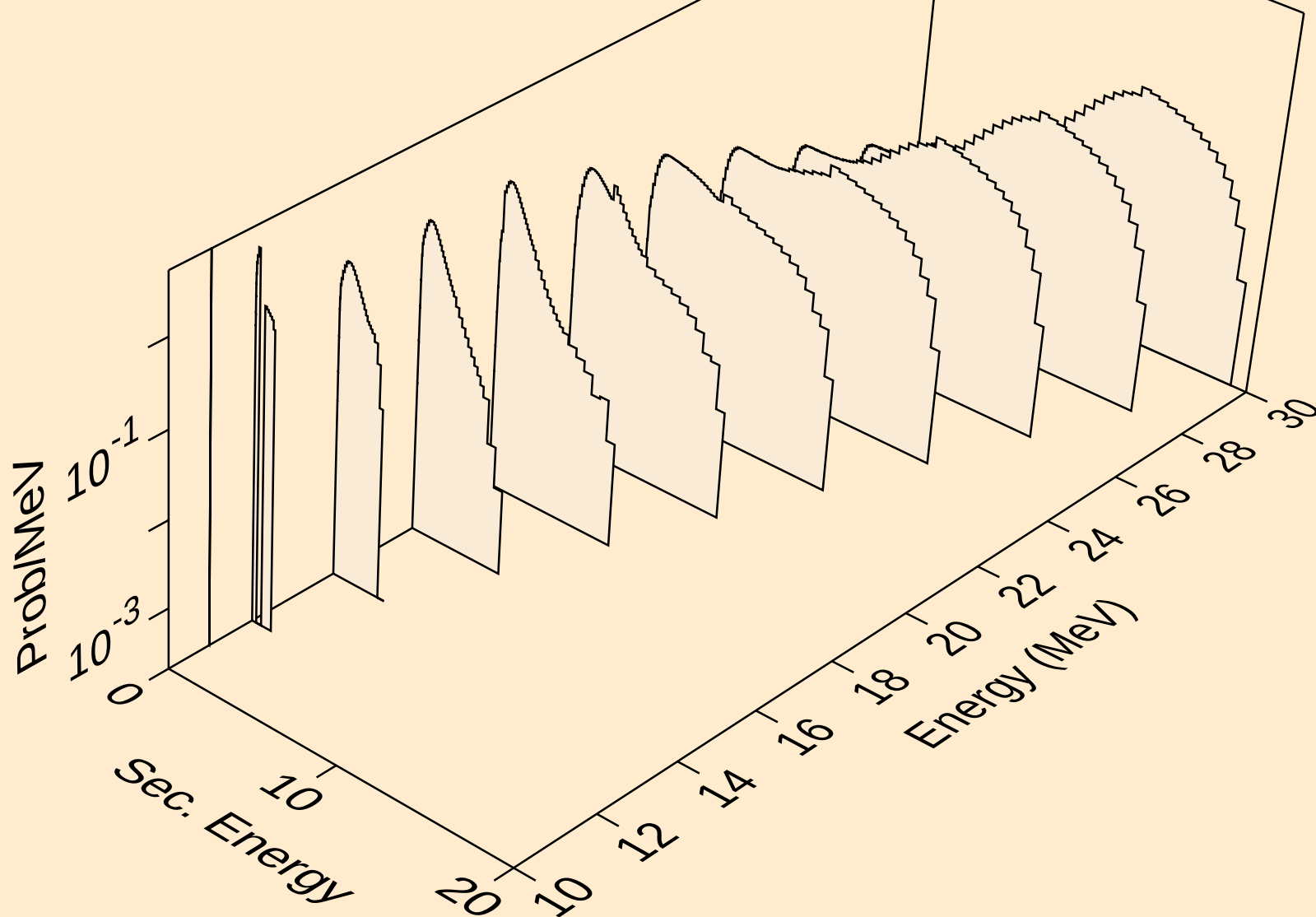


# HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K

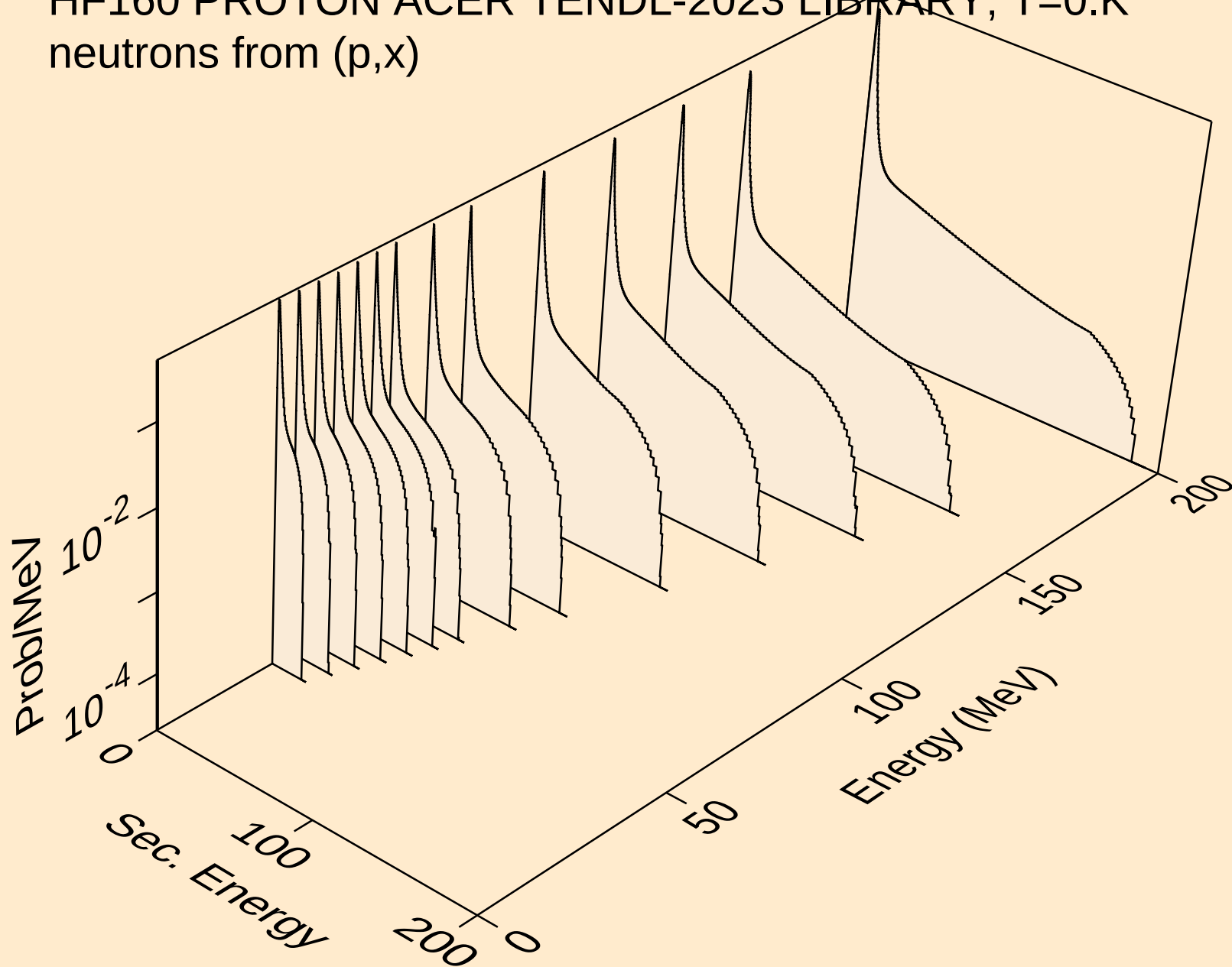
Particle production cross sections



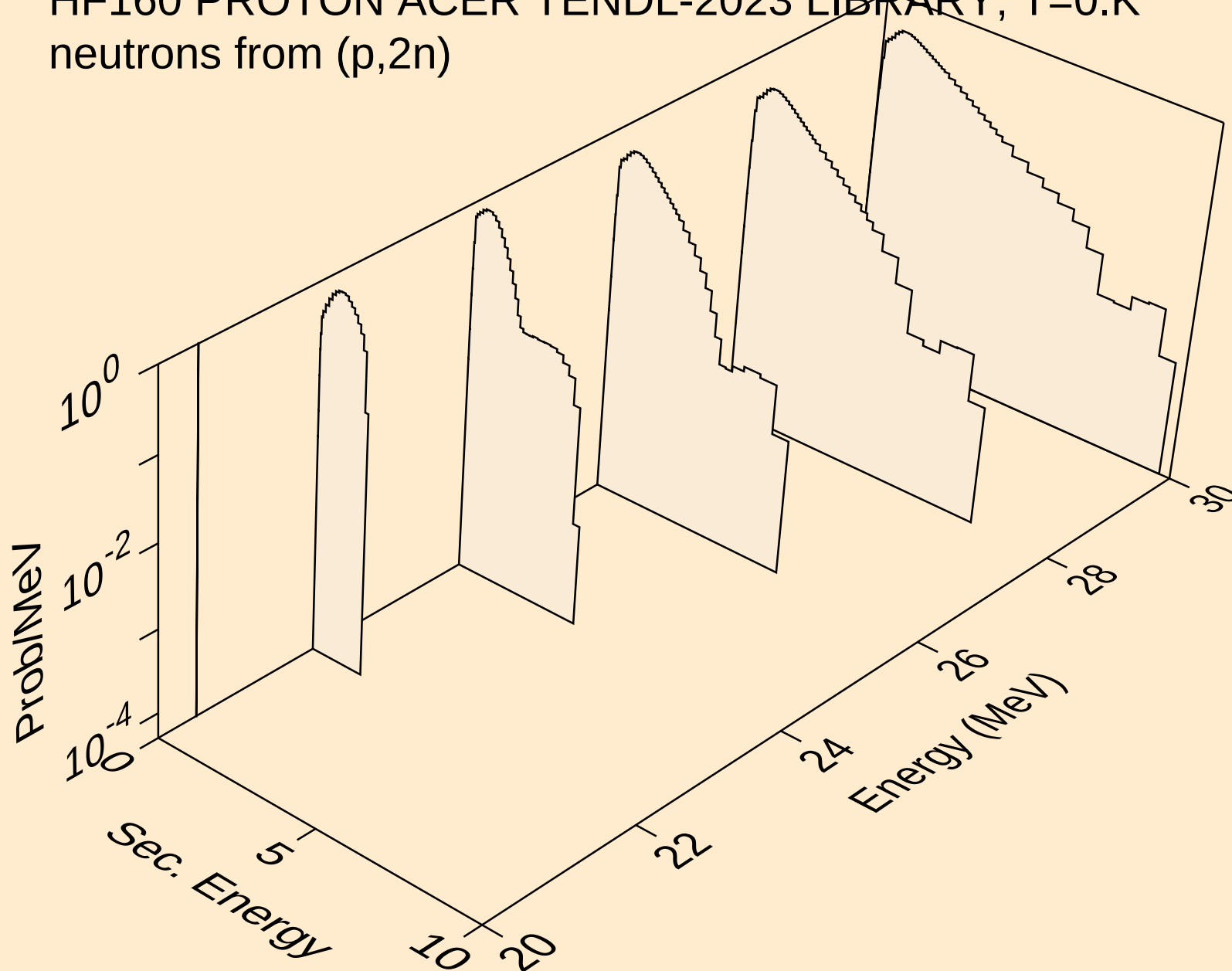
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



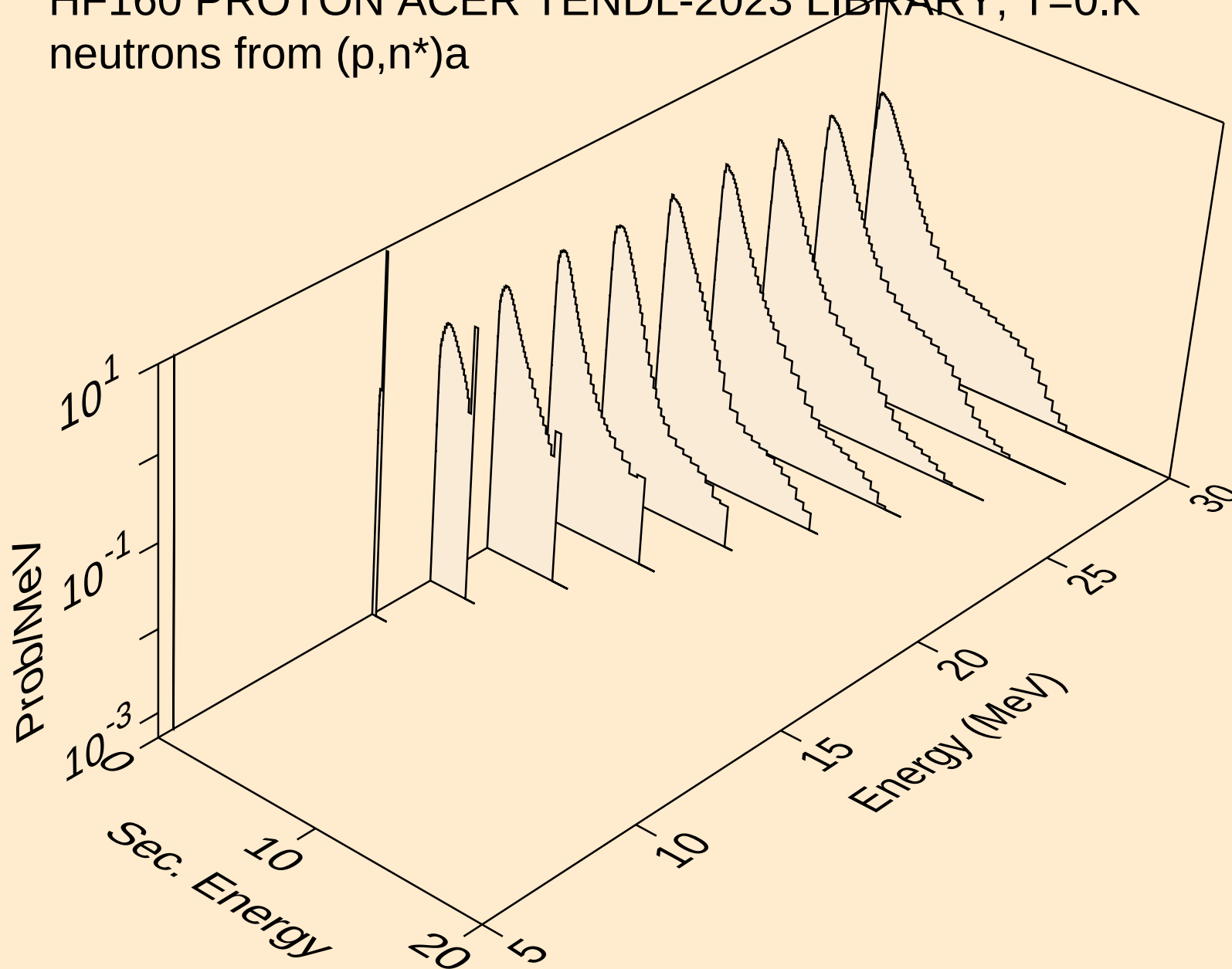
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



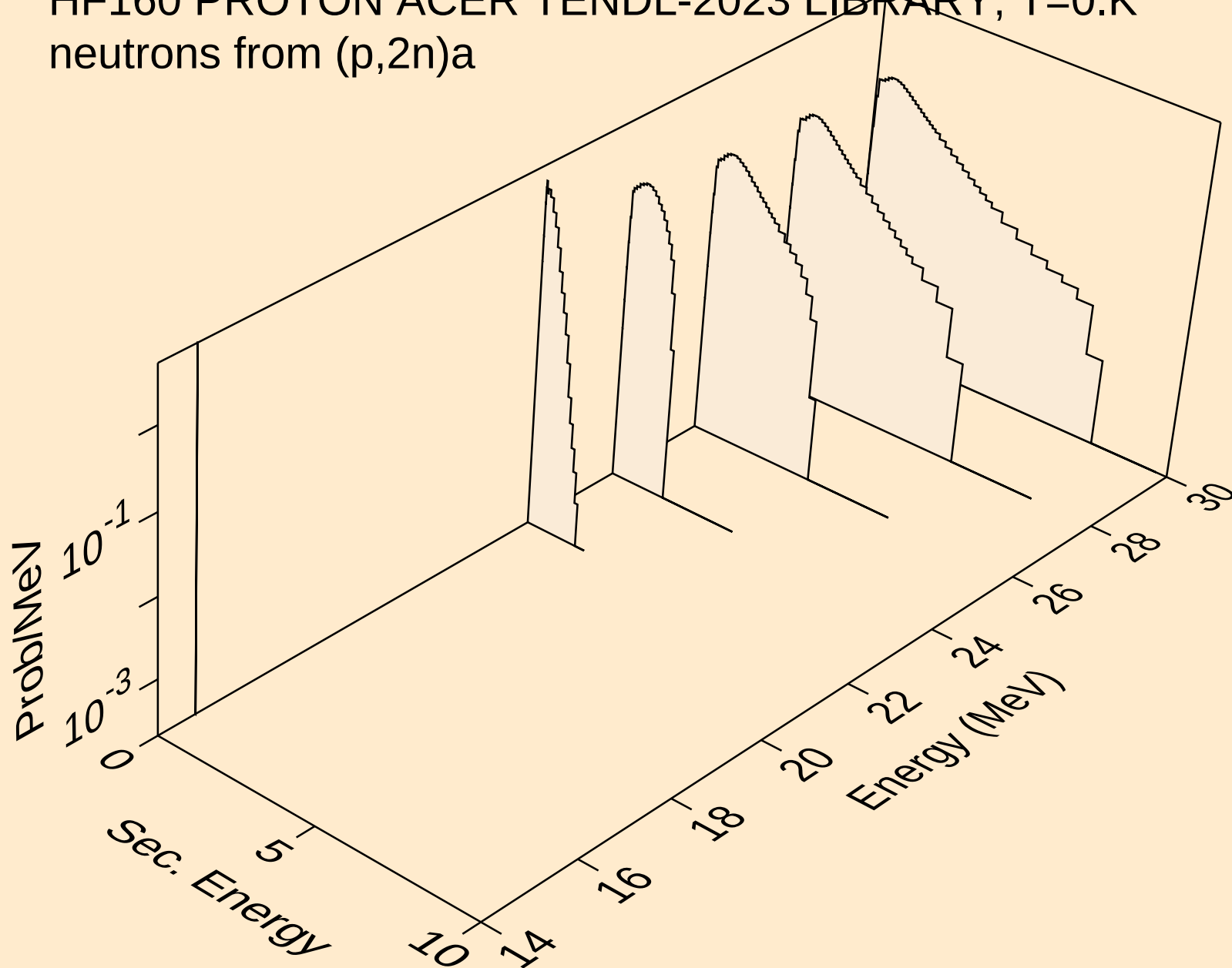
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



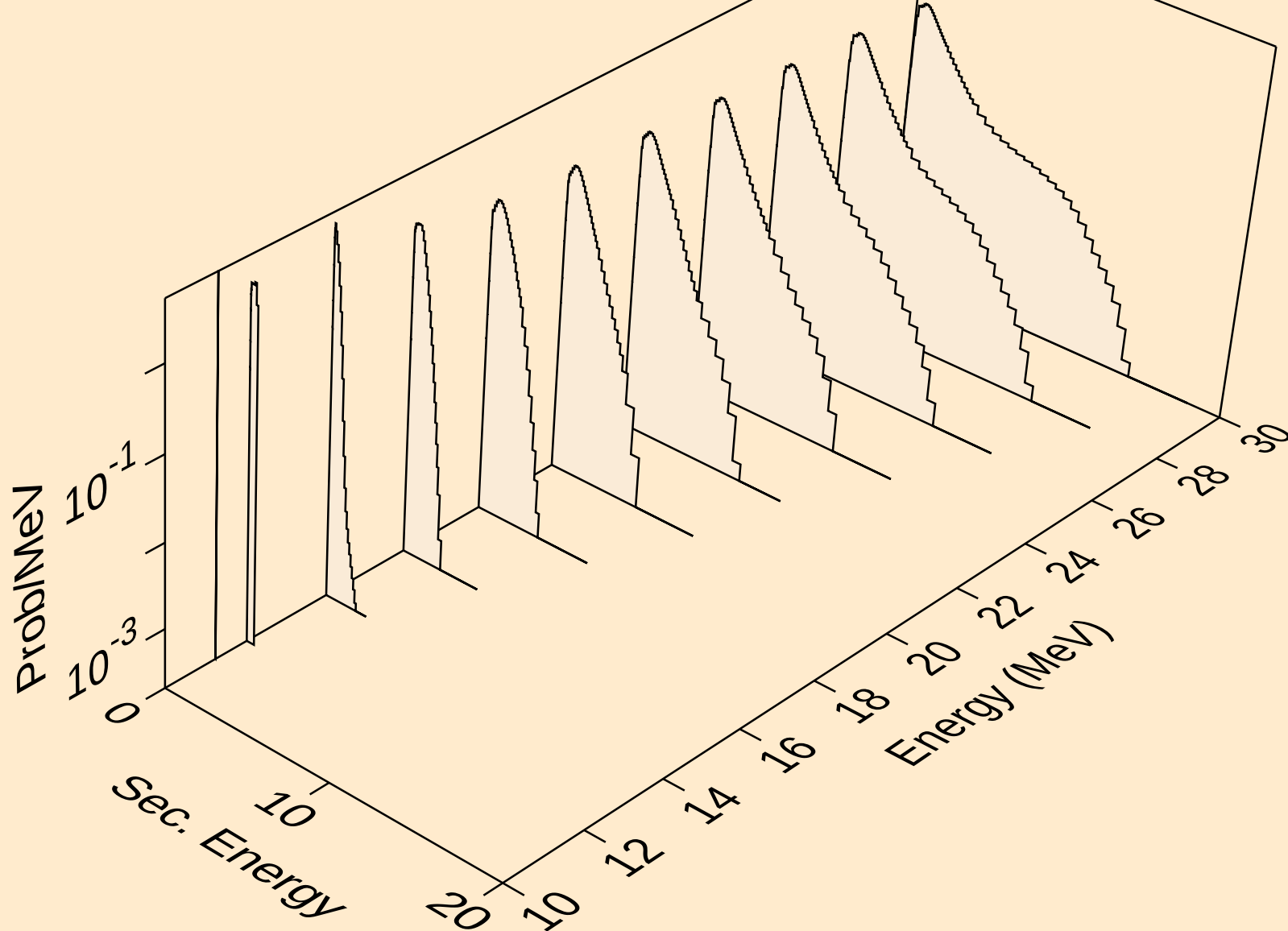
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a

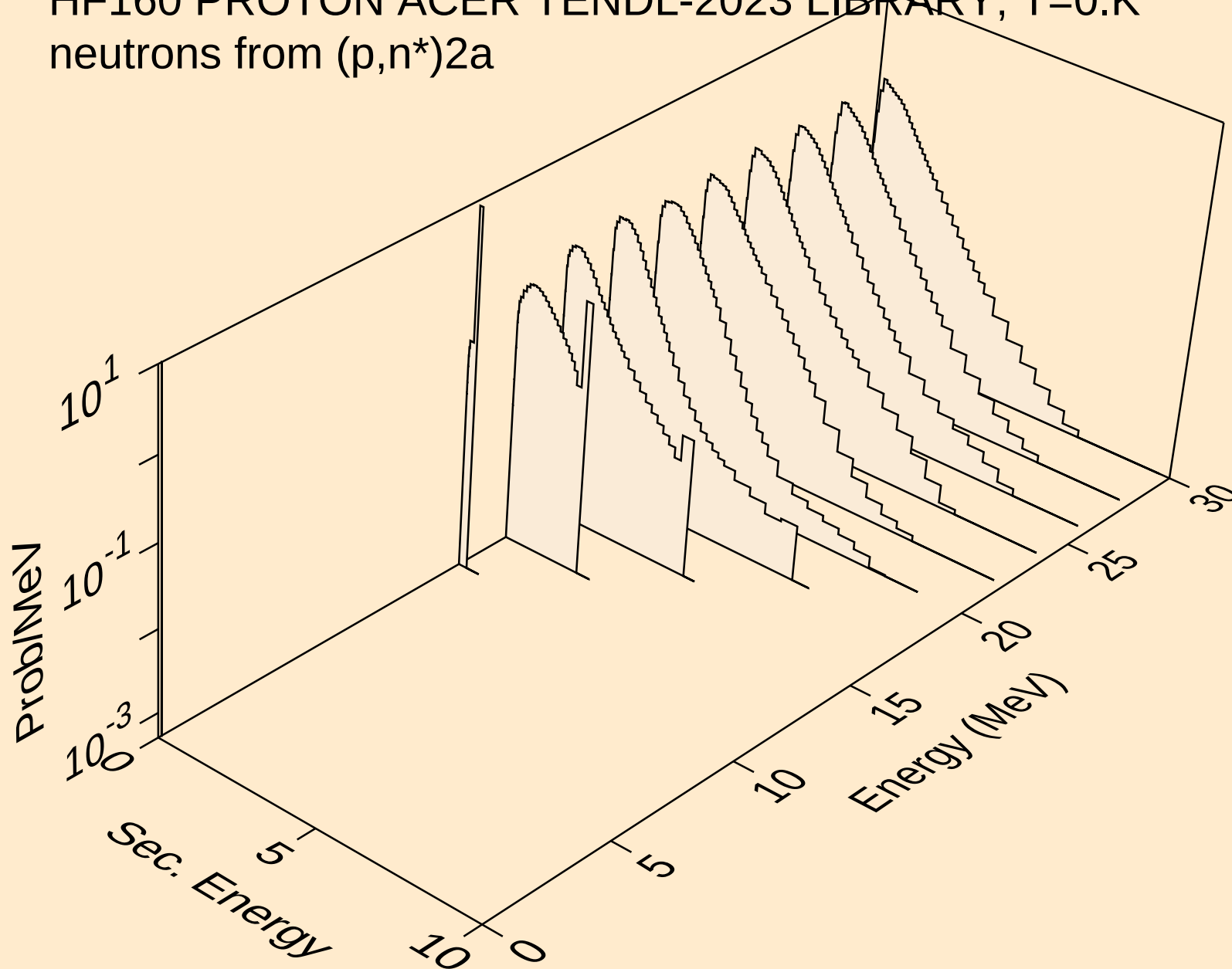


HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
neutrons from  $(p,n^*)p$

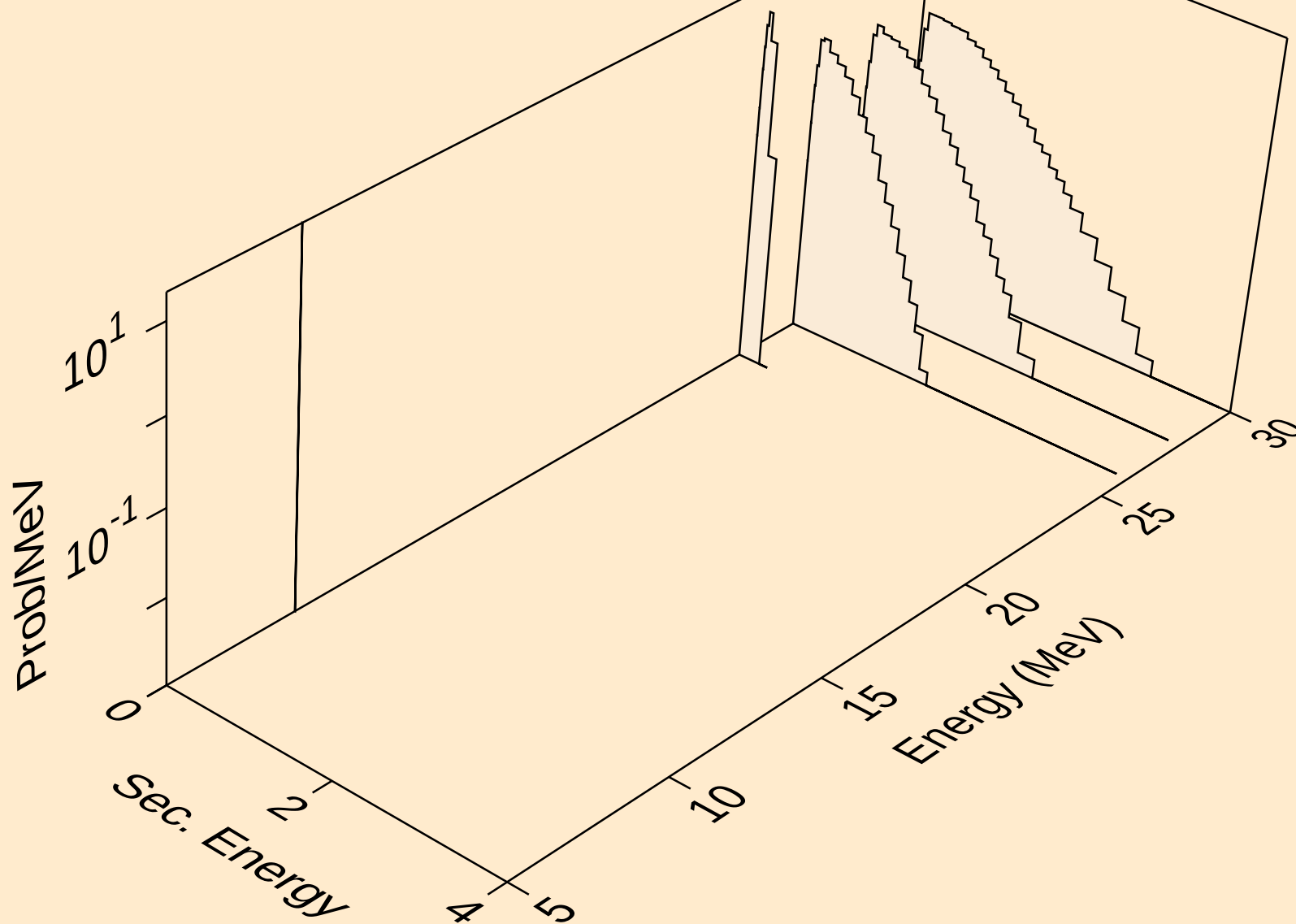




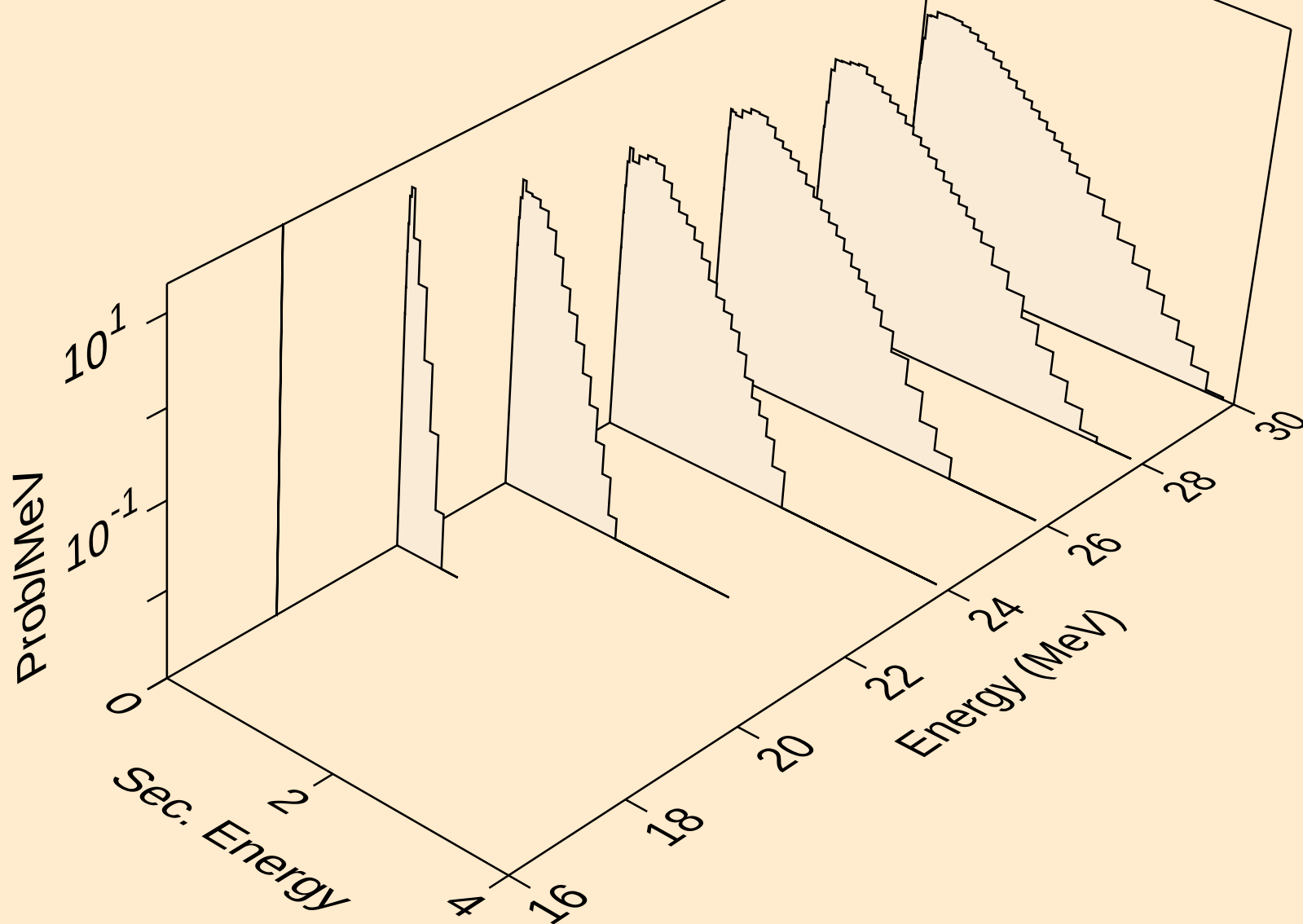
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



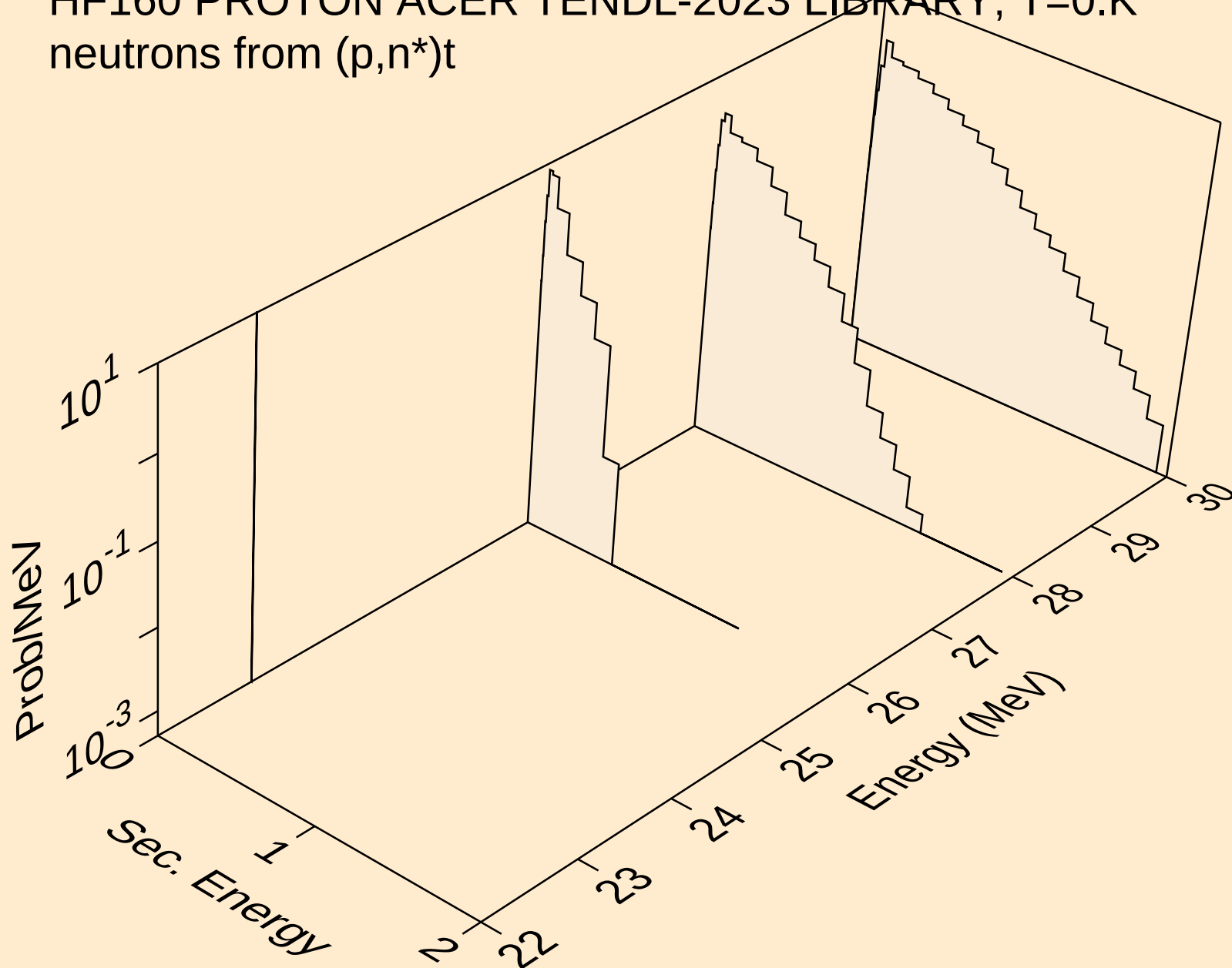
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)2a



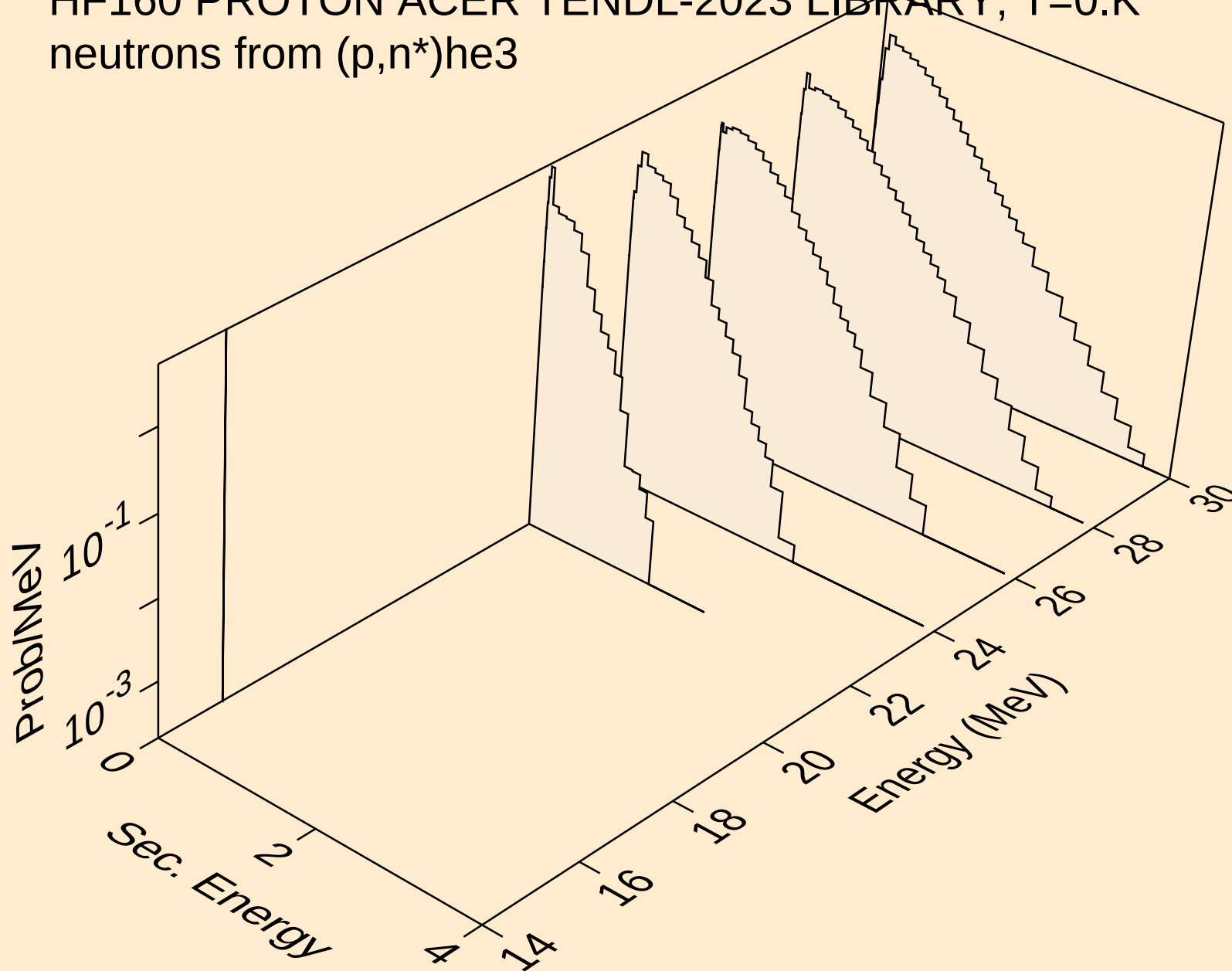
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d



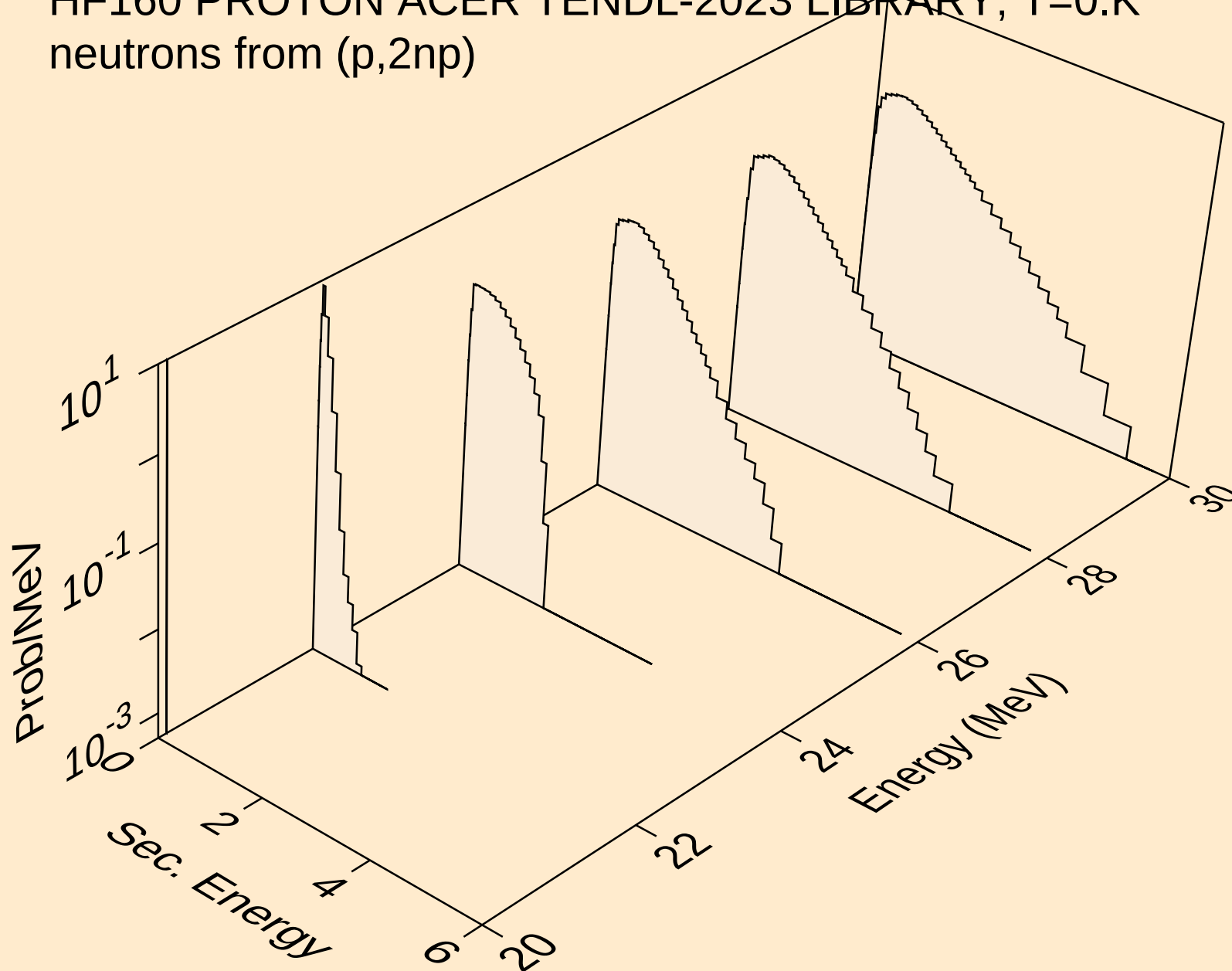
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



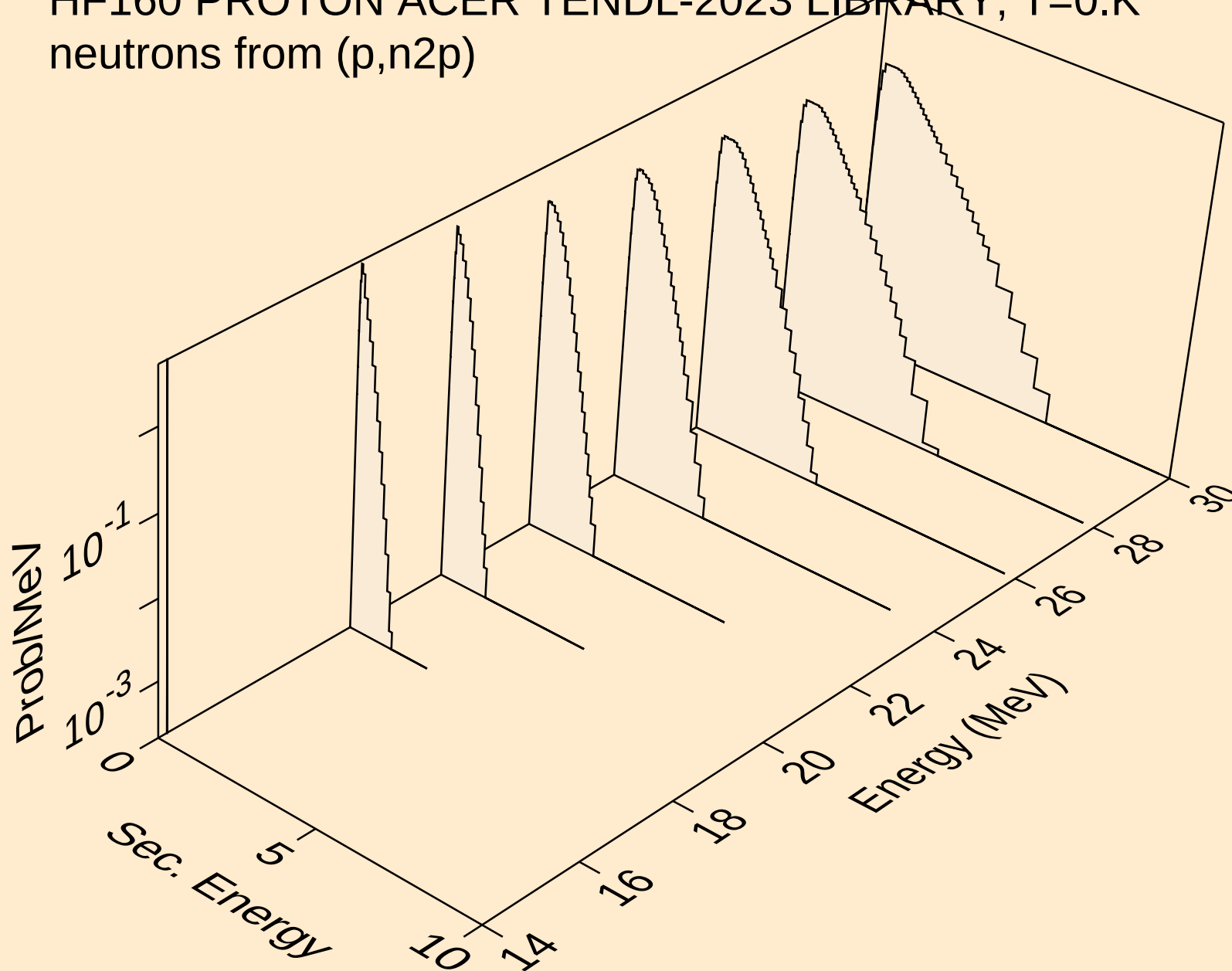
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



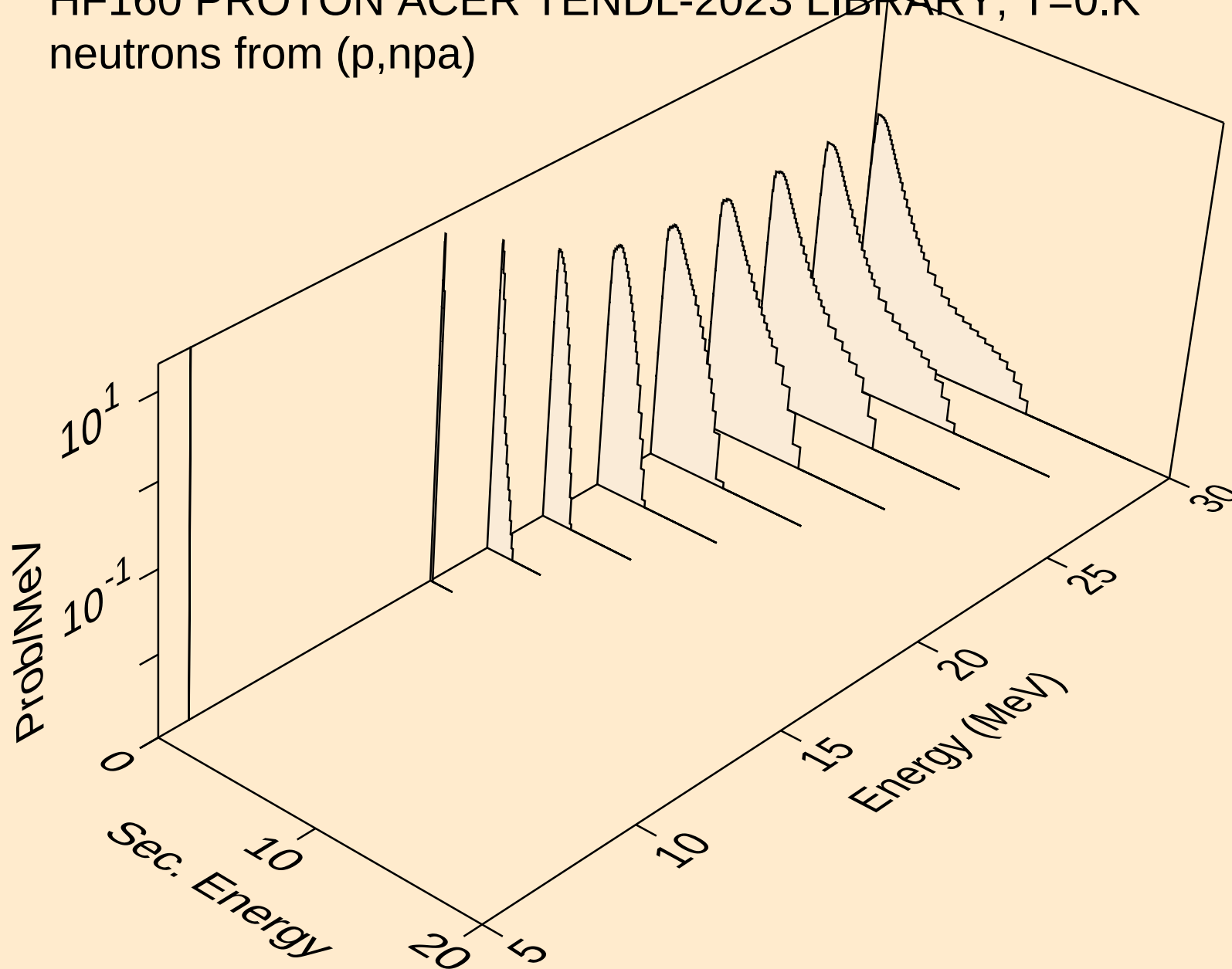
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)

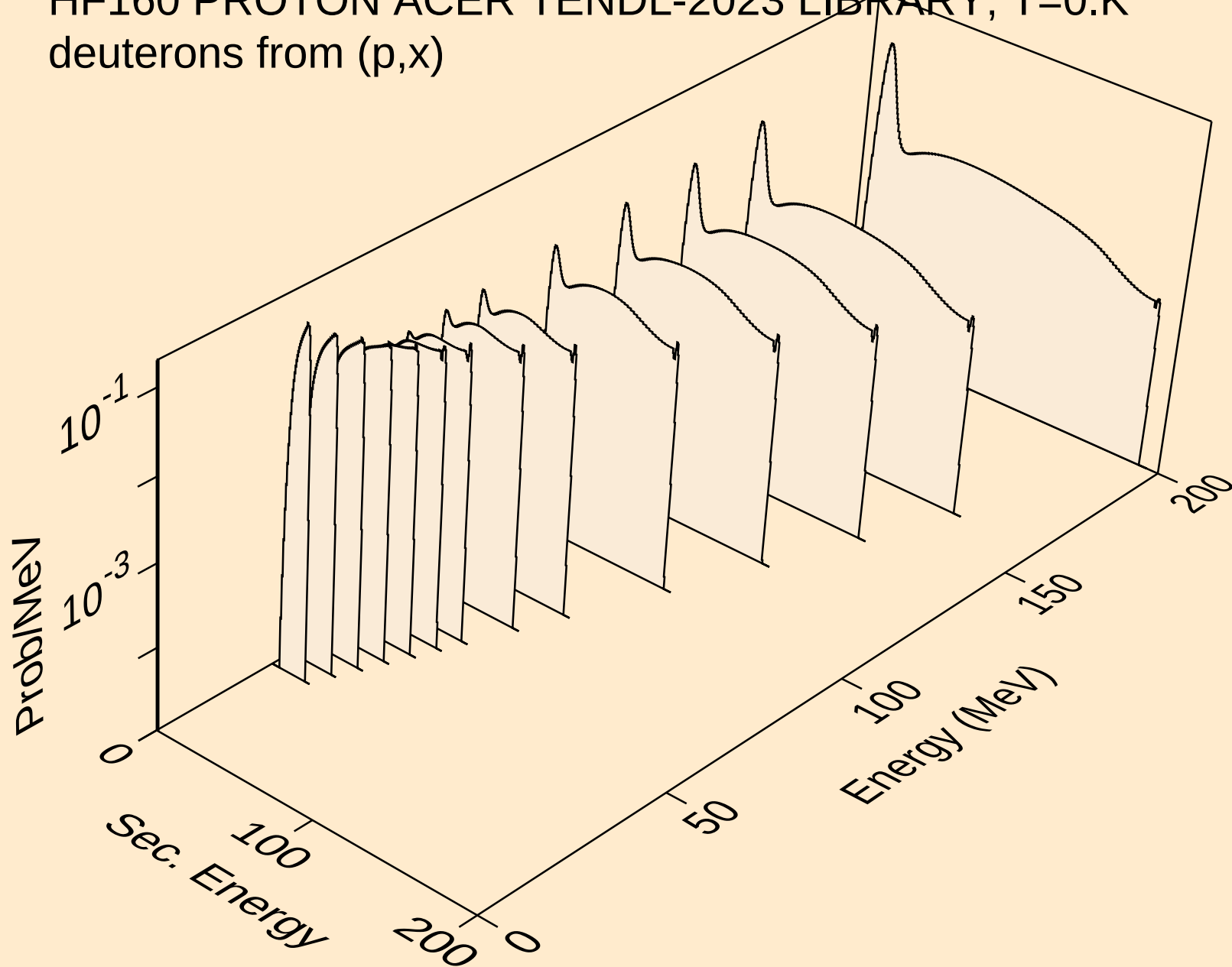


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
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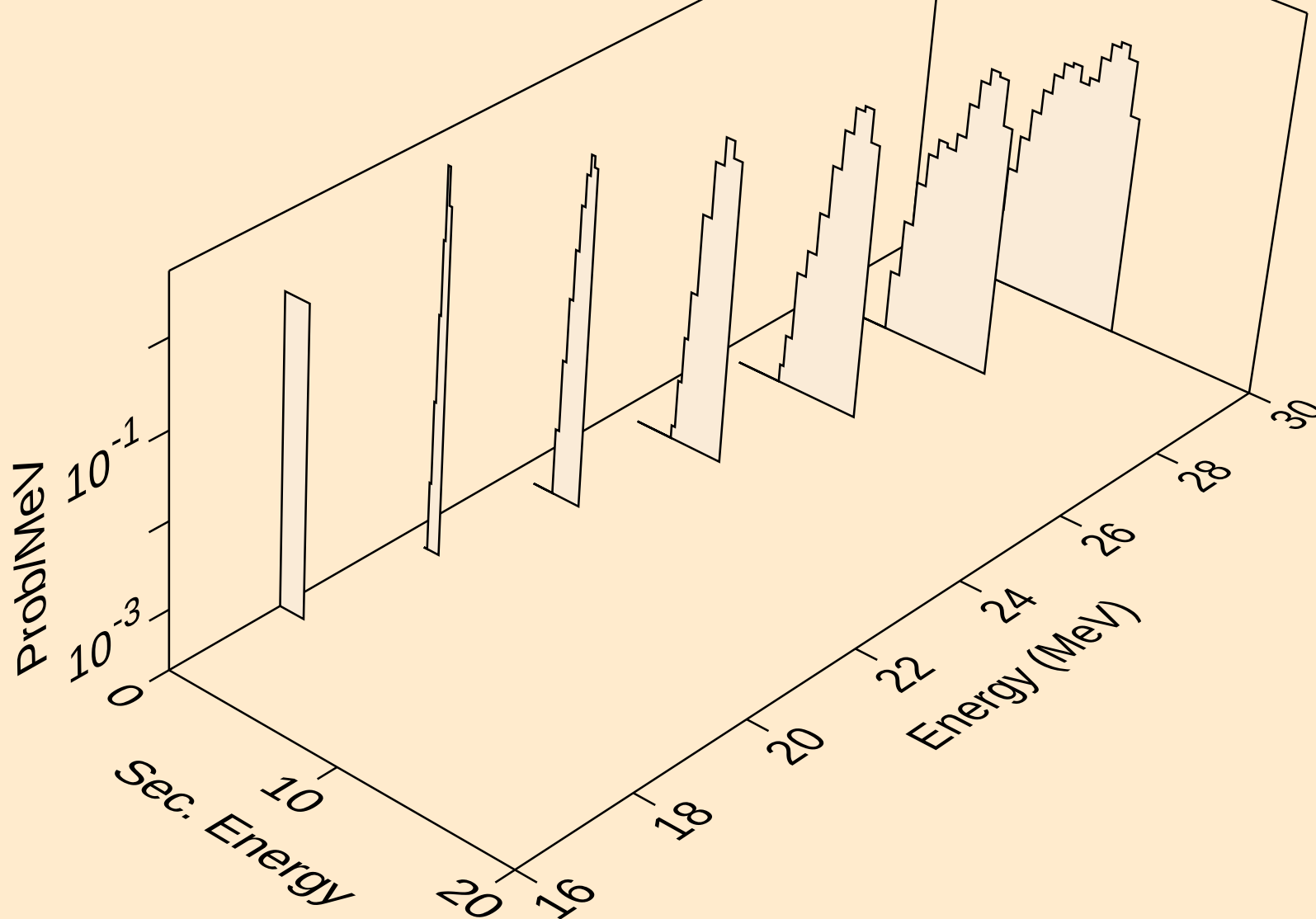




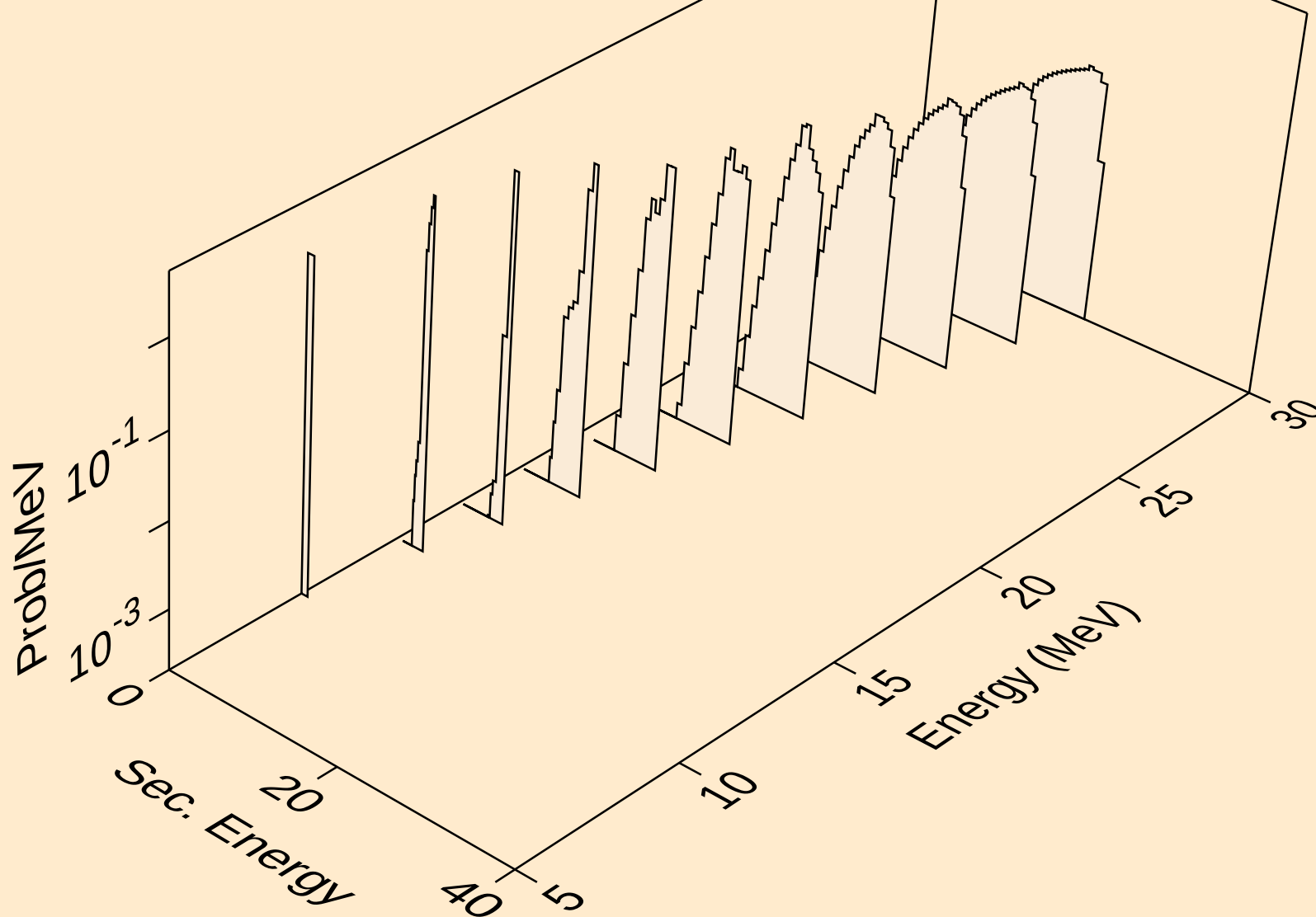
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
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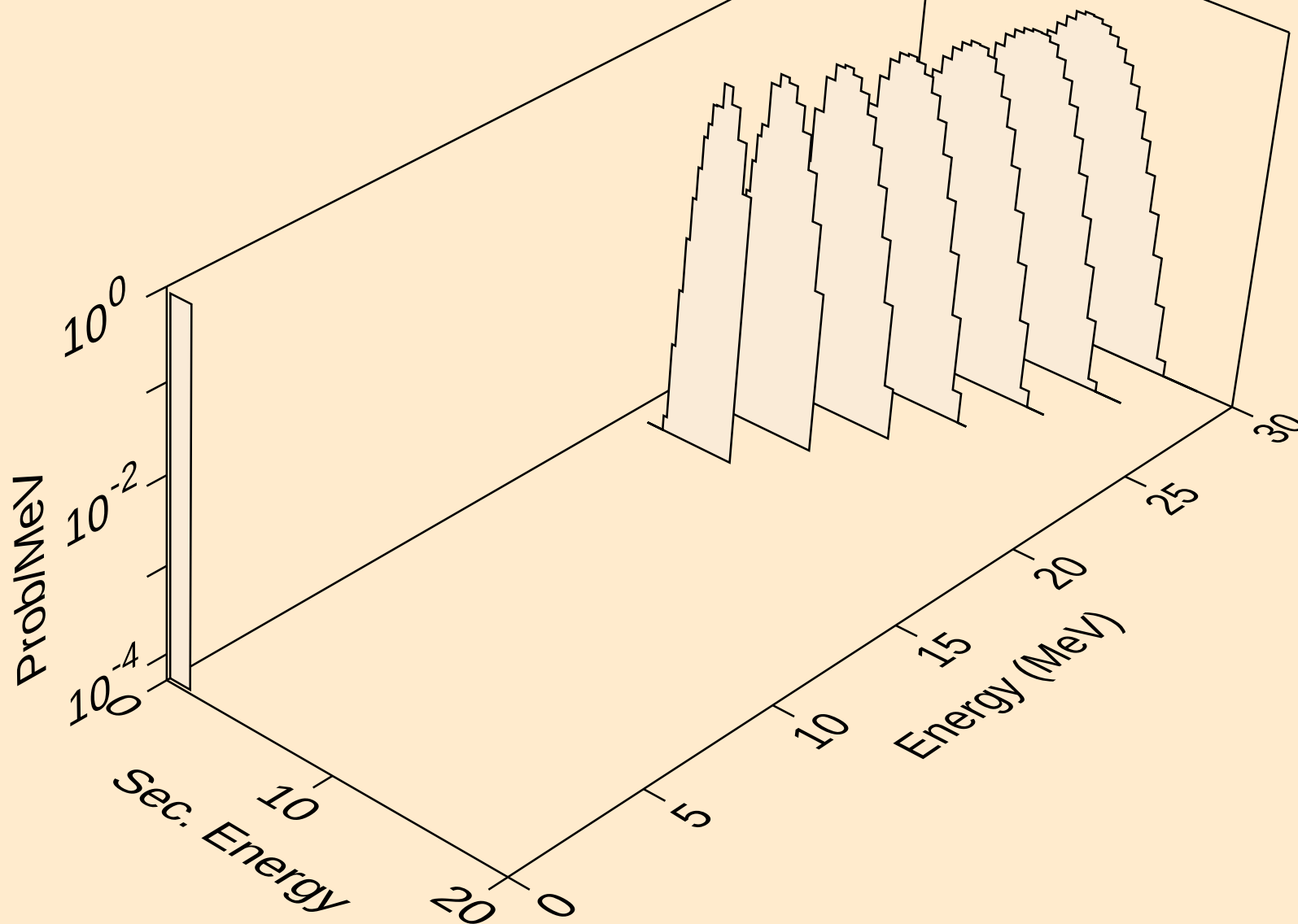
HF160 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
deuterons from  $(p,n^*)d$



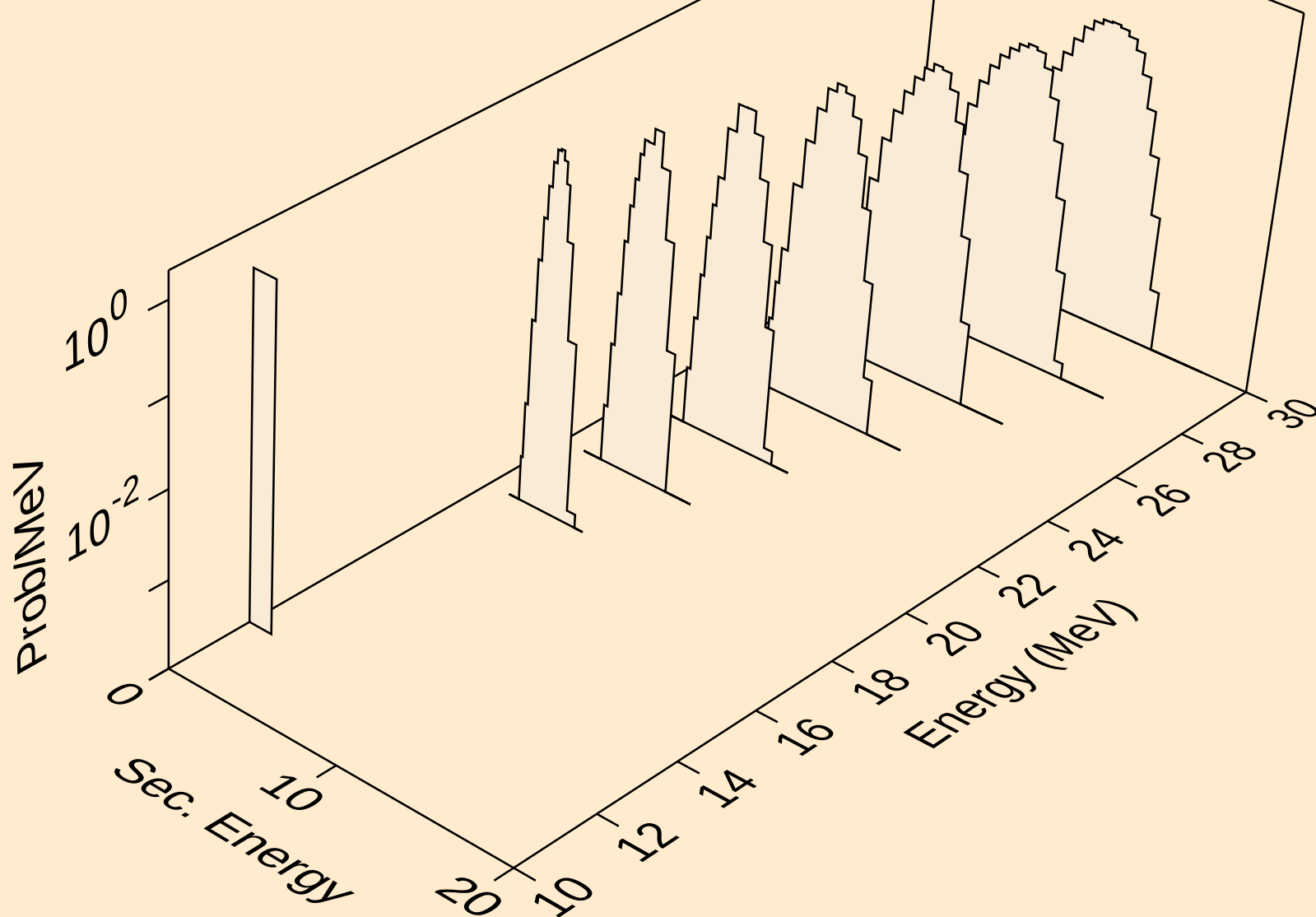
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



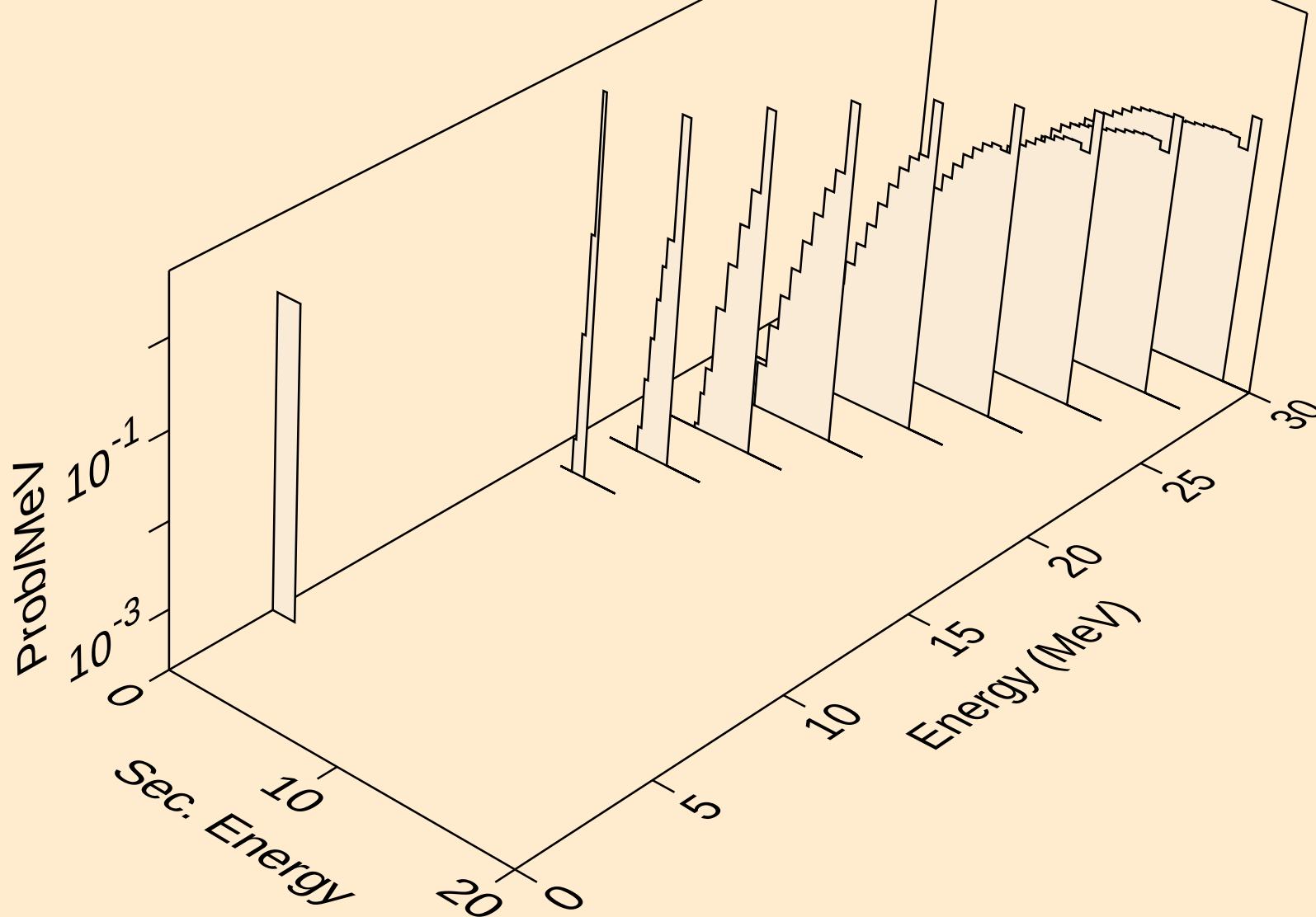
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d2a)



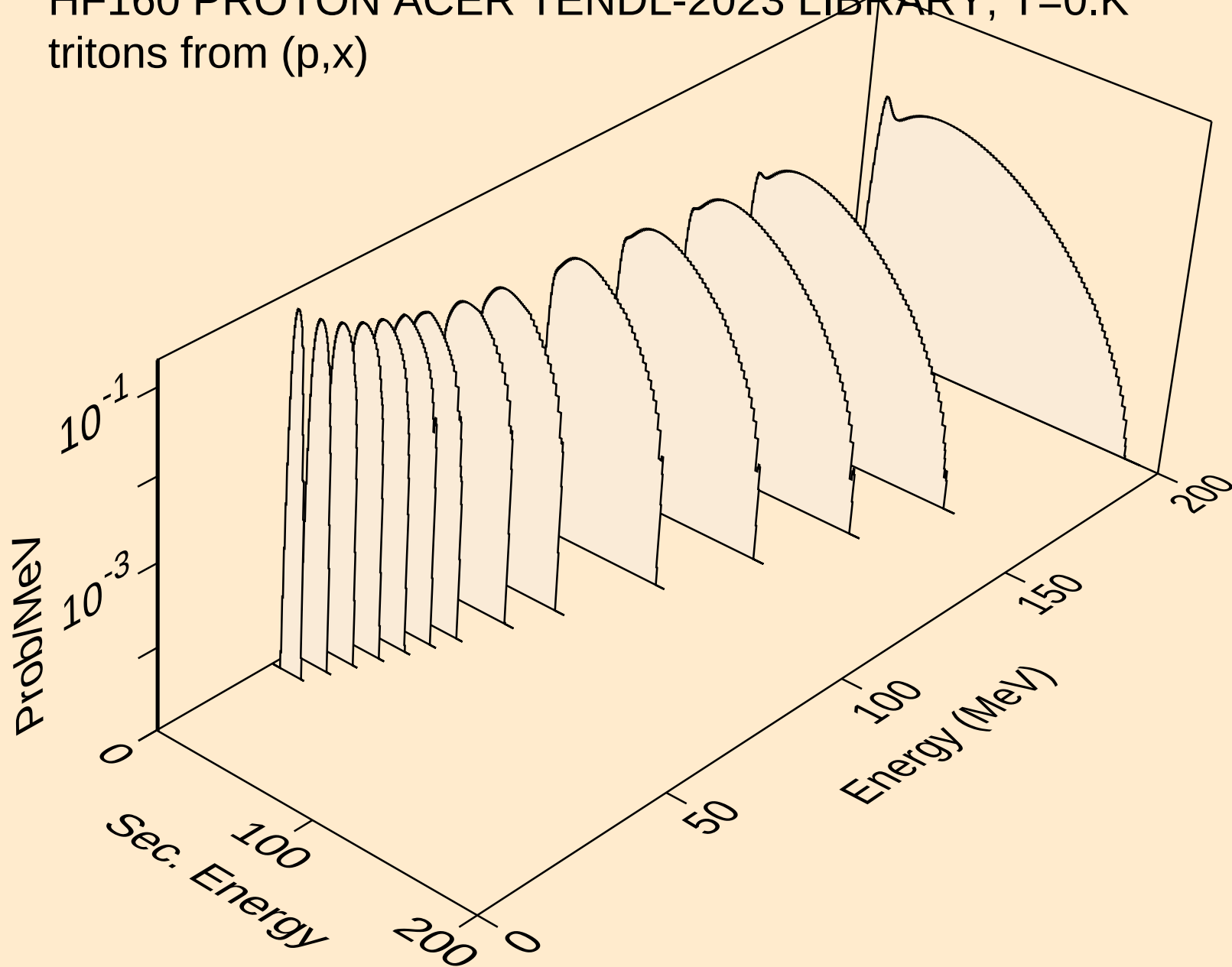
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)



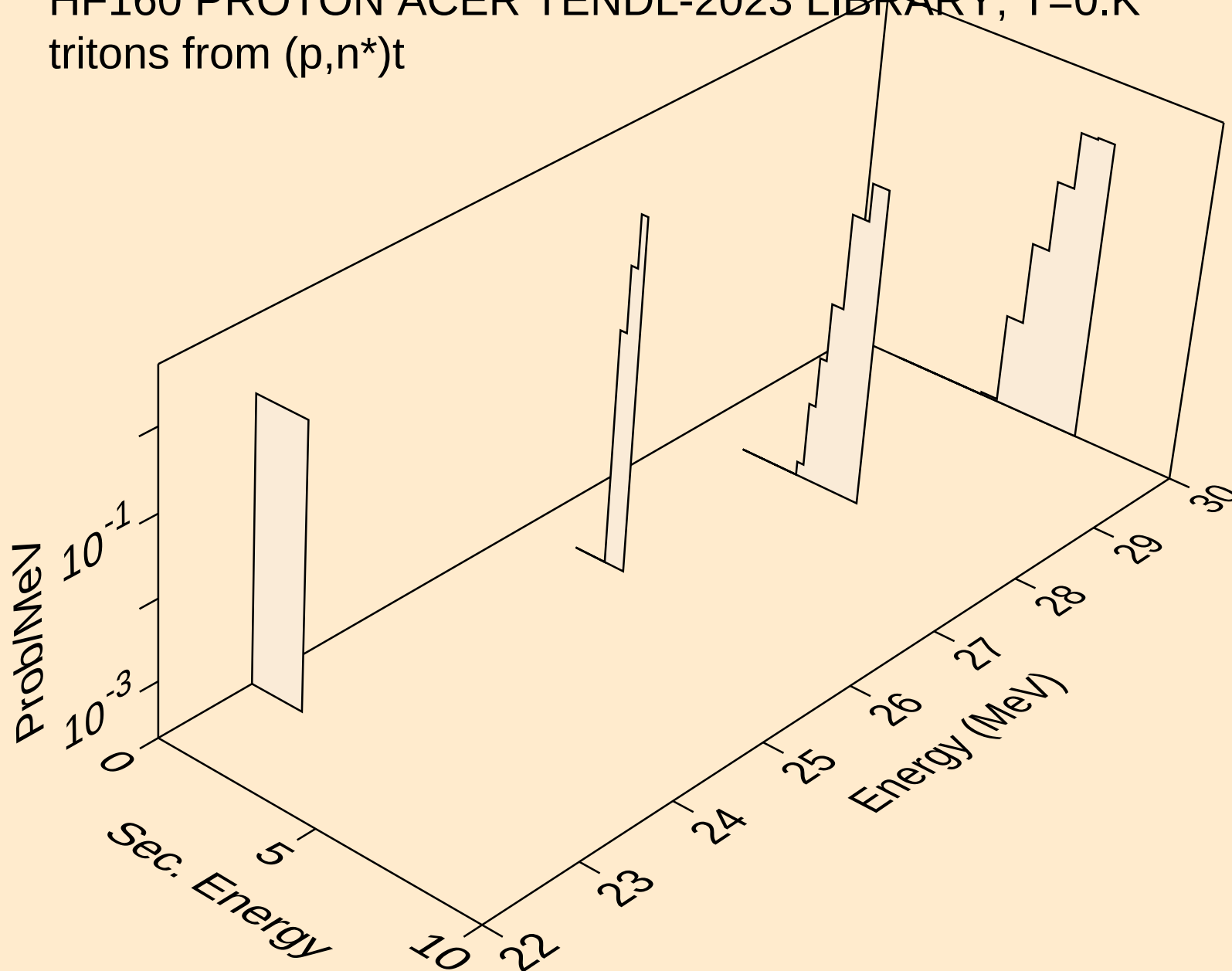
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

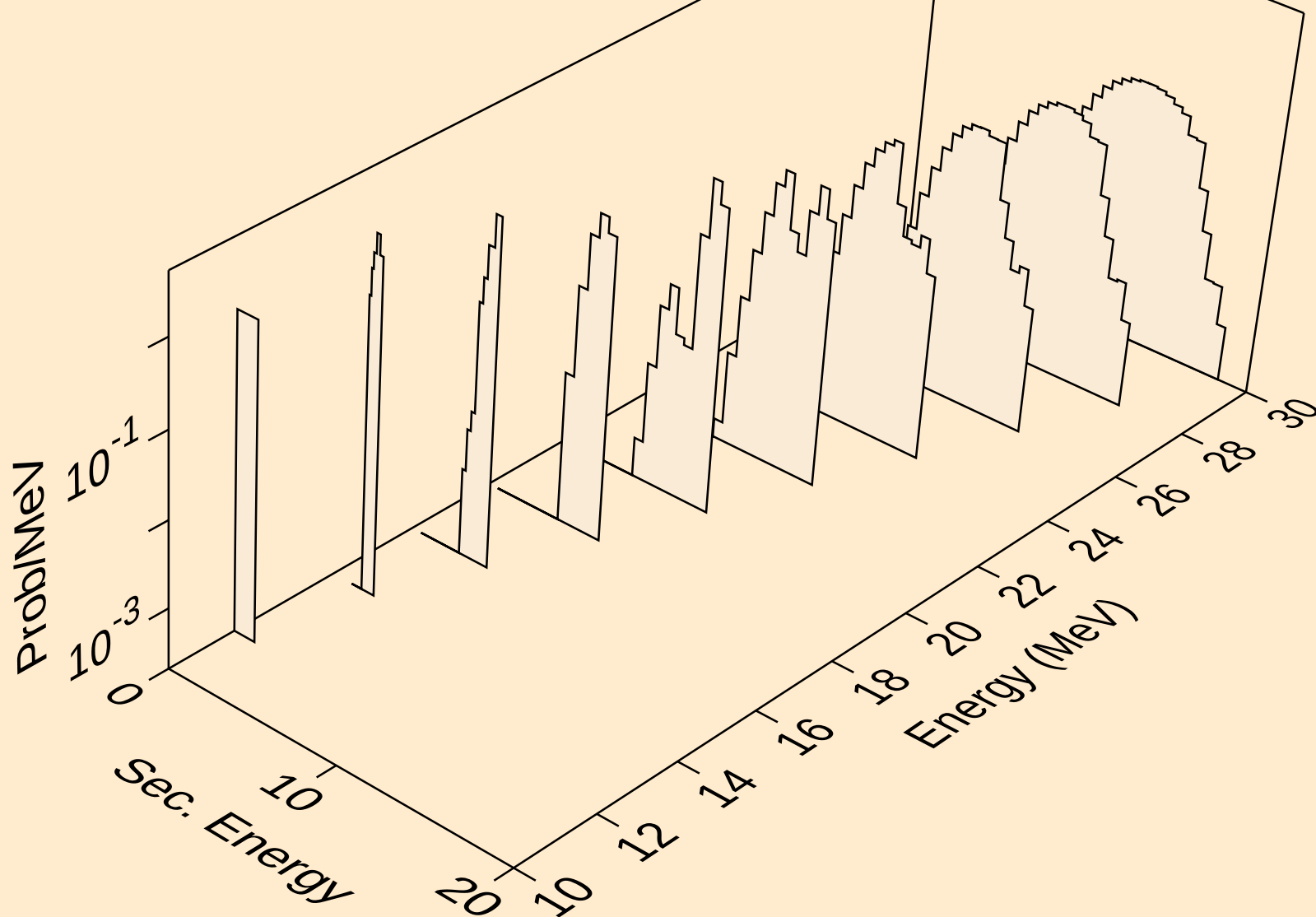


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

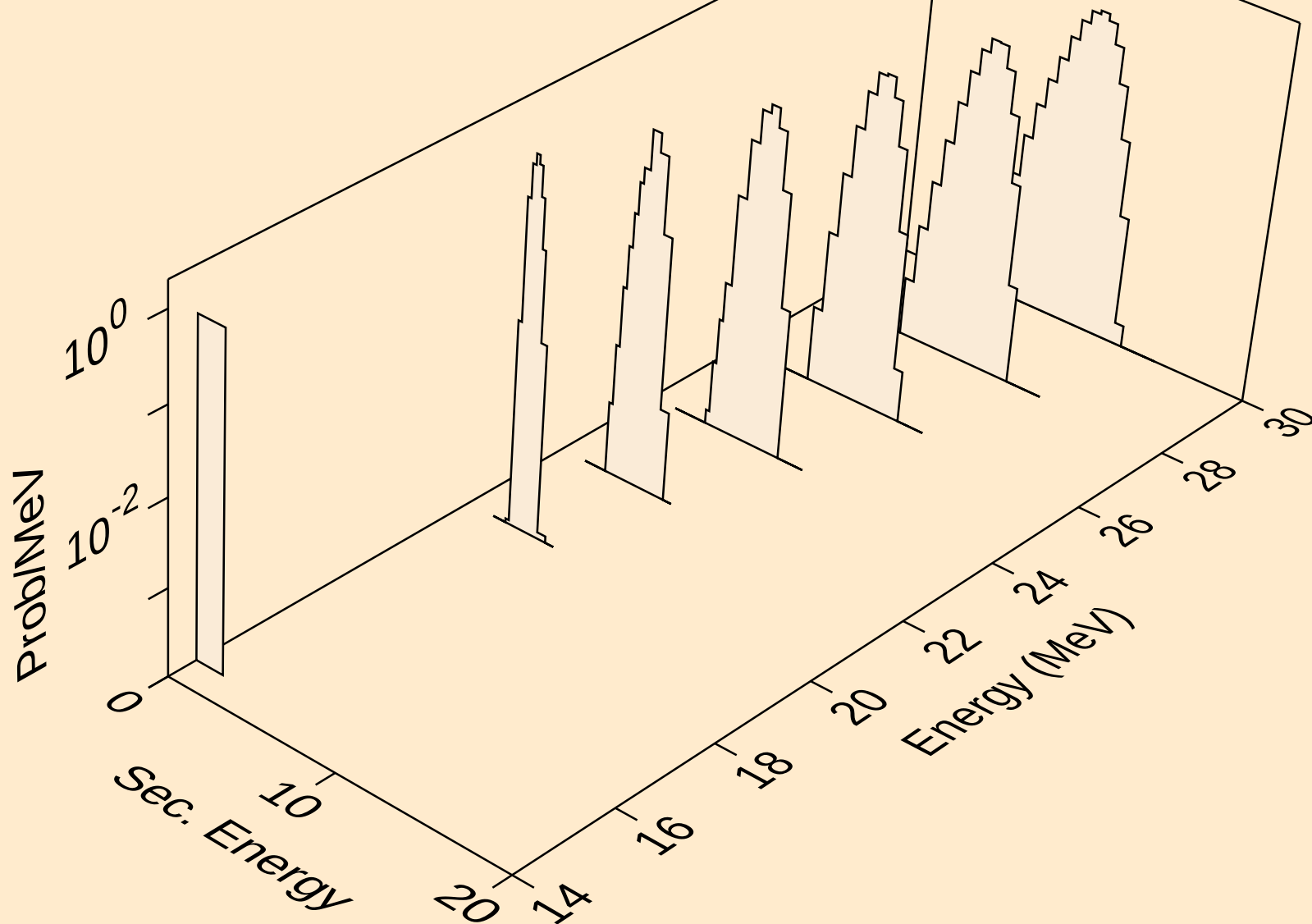




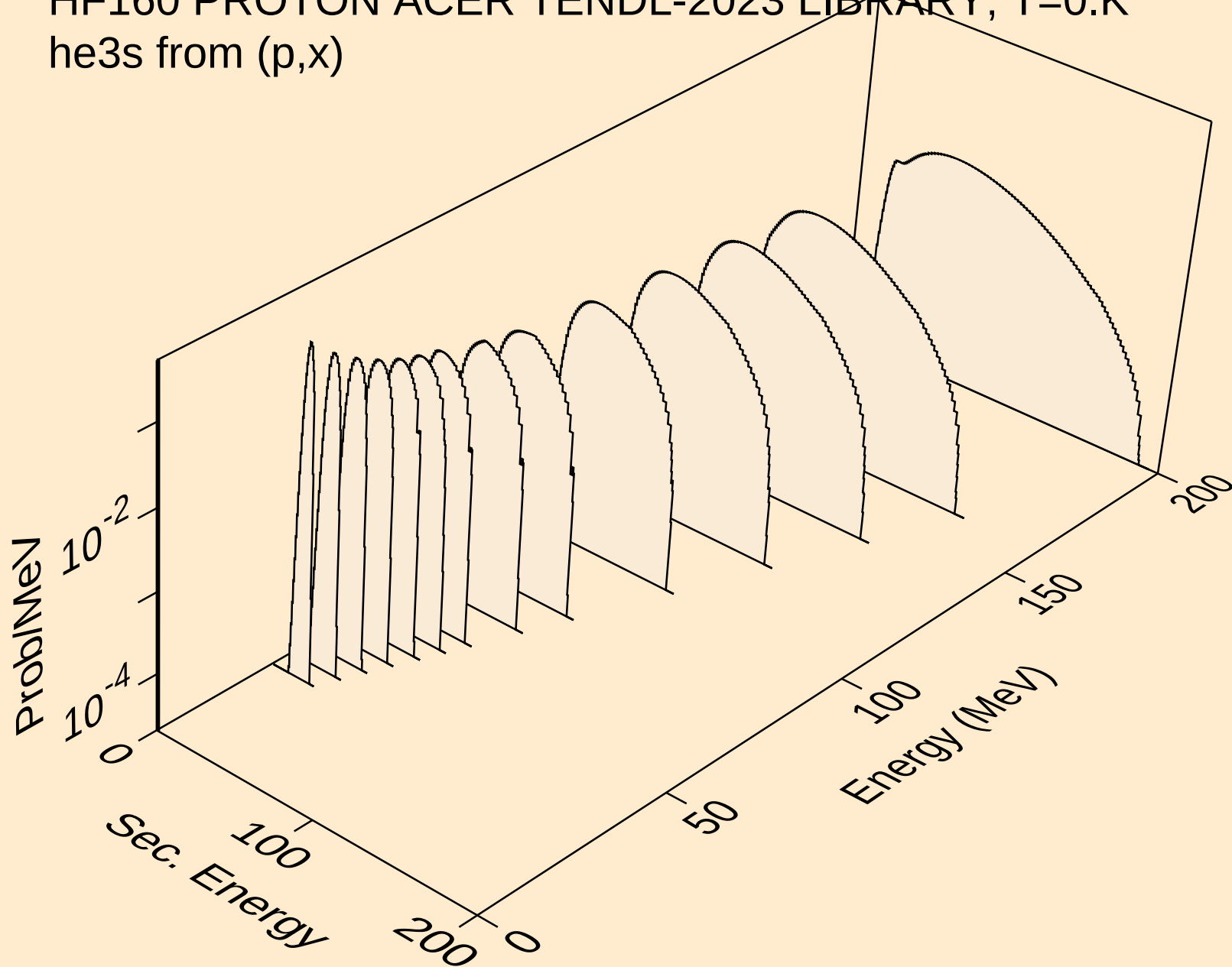
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



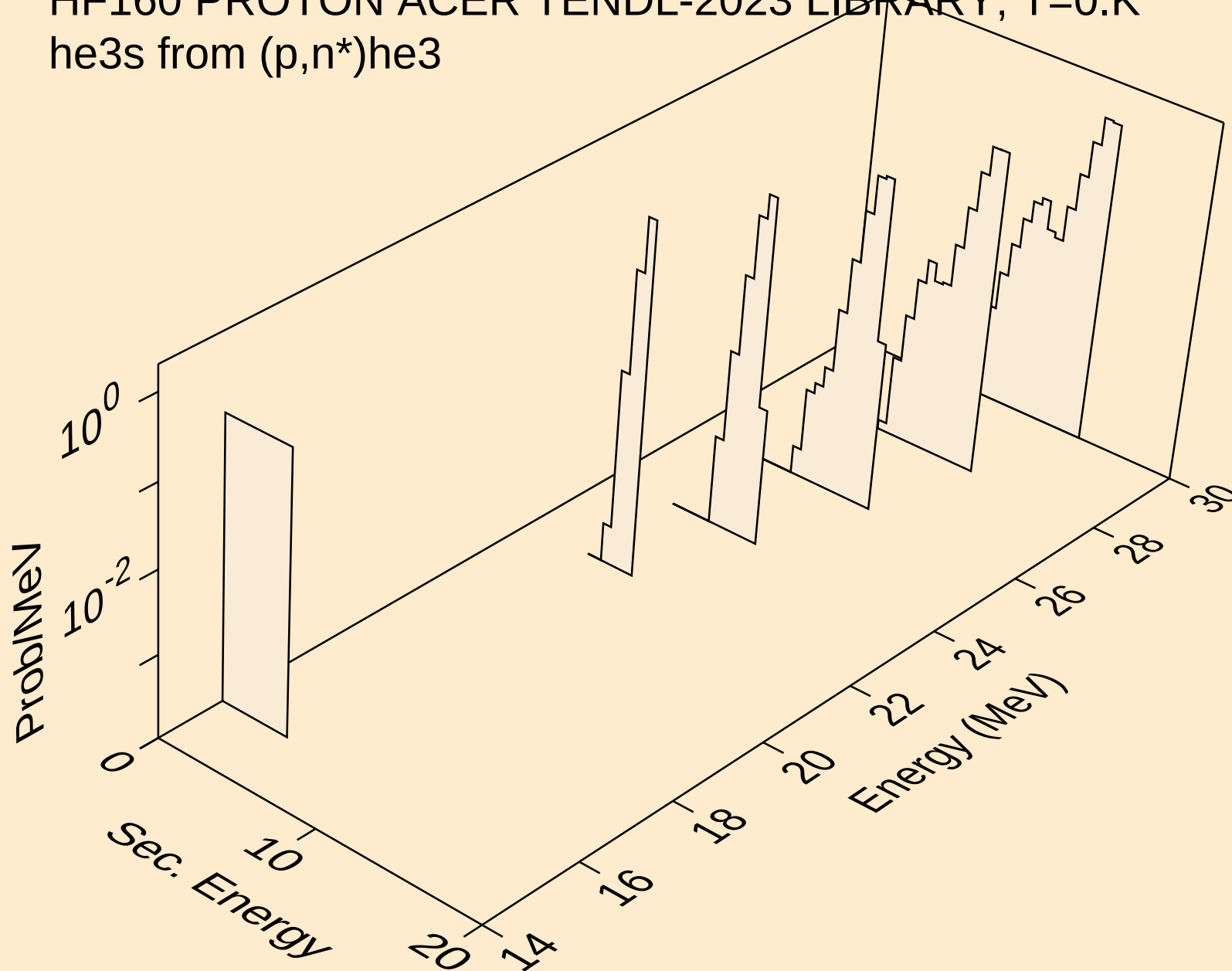
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,pt)



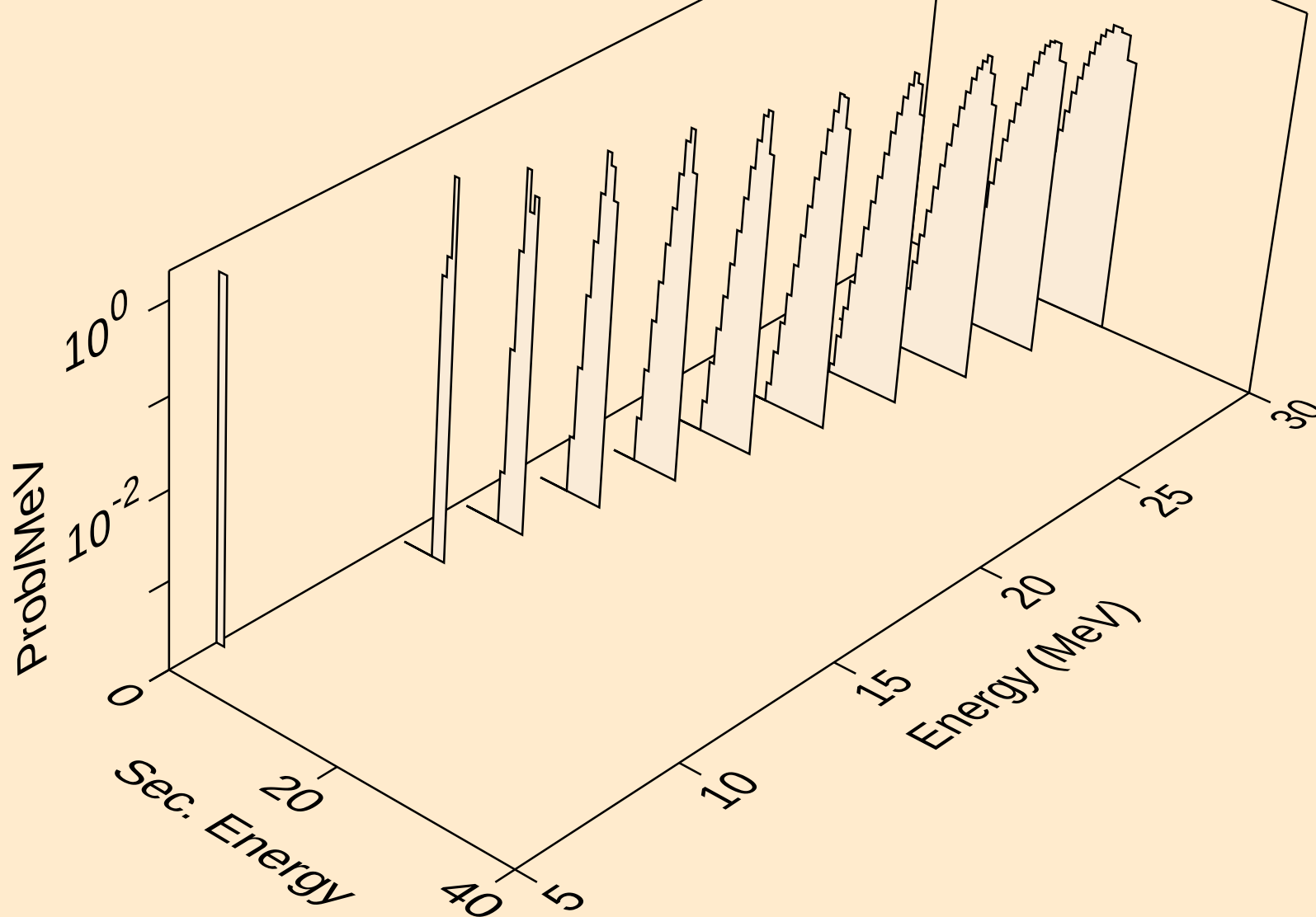
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



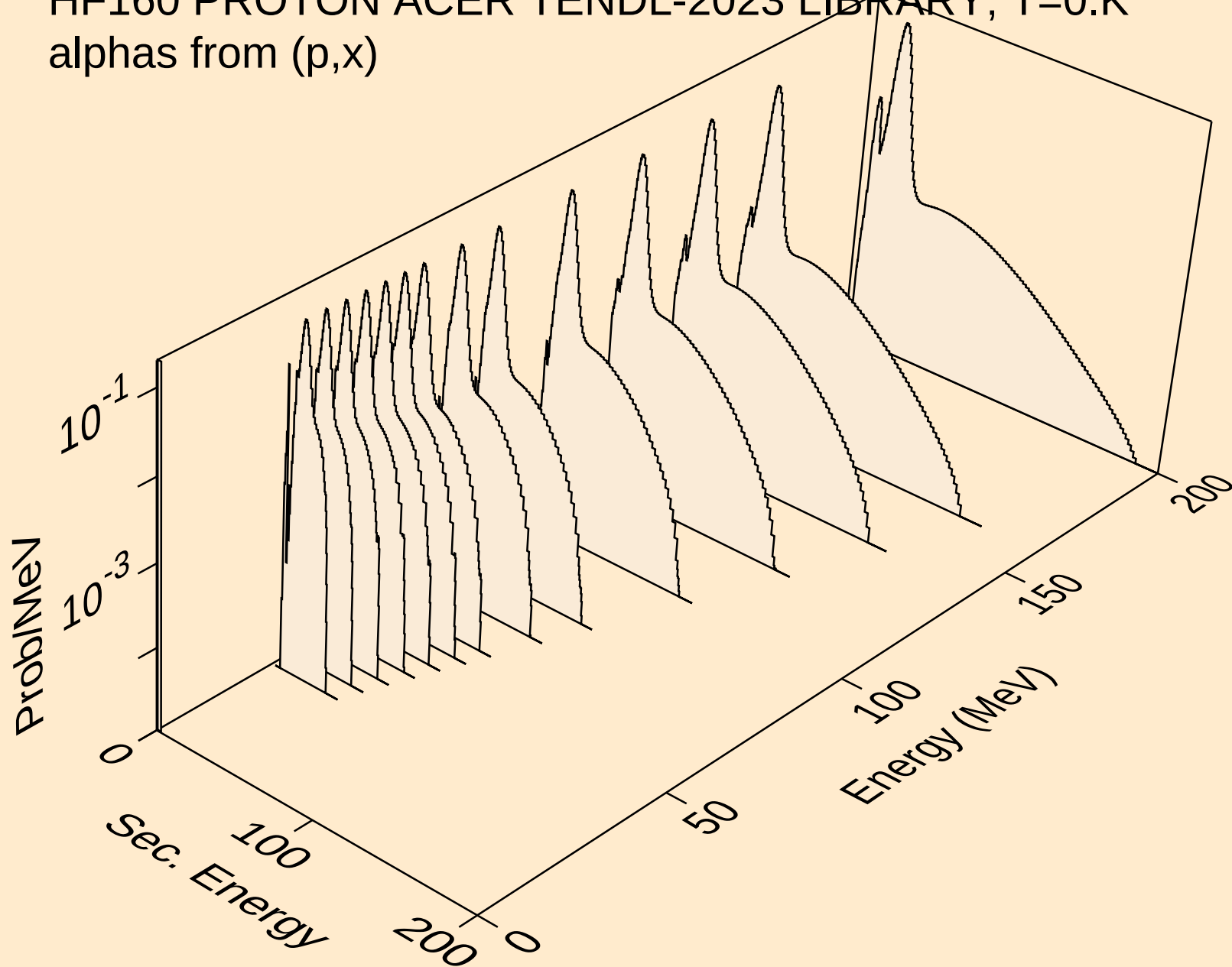
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



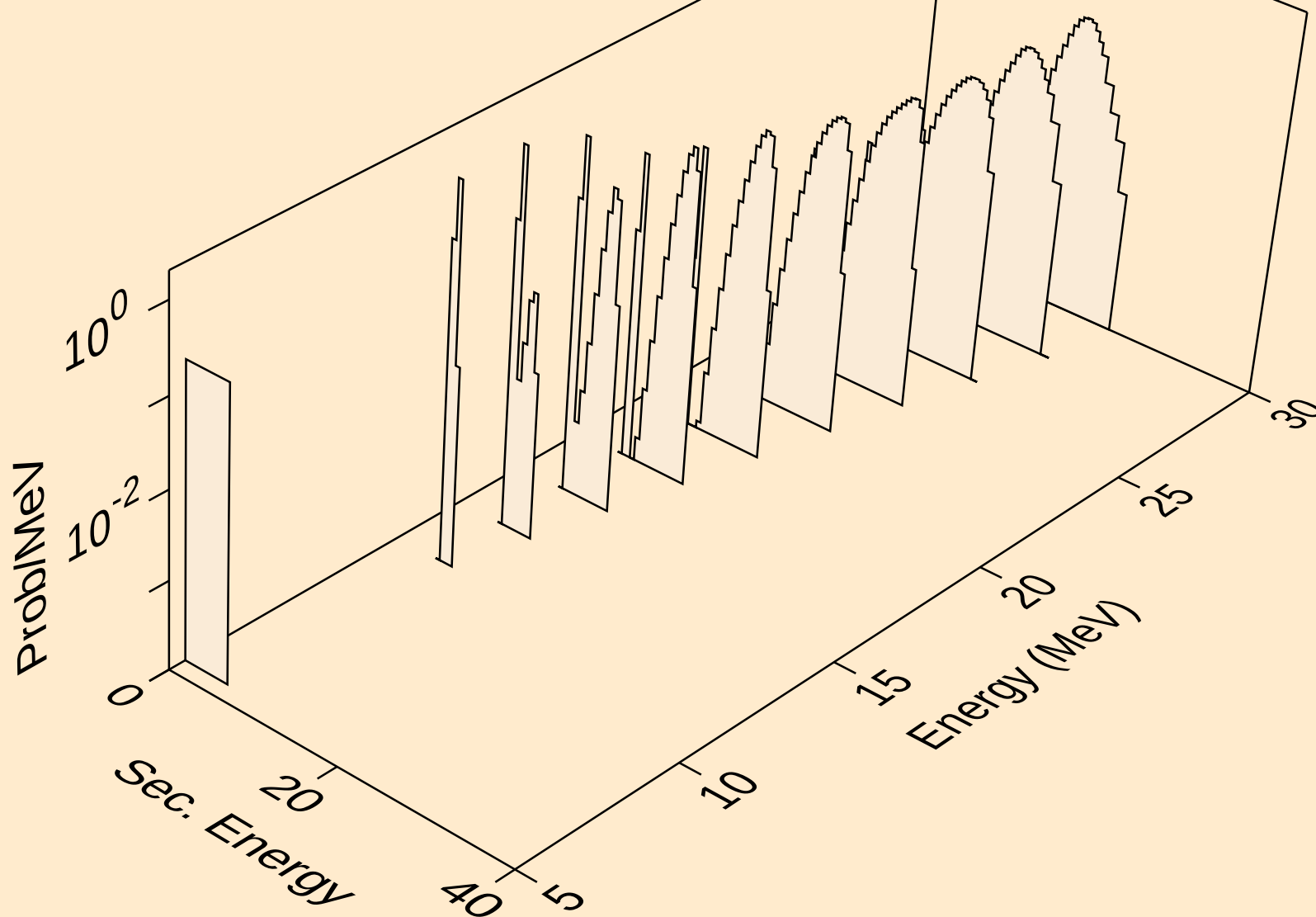
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he3s from (p,he3)



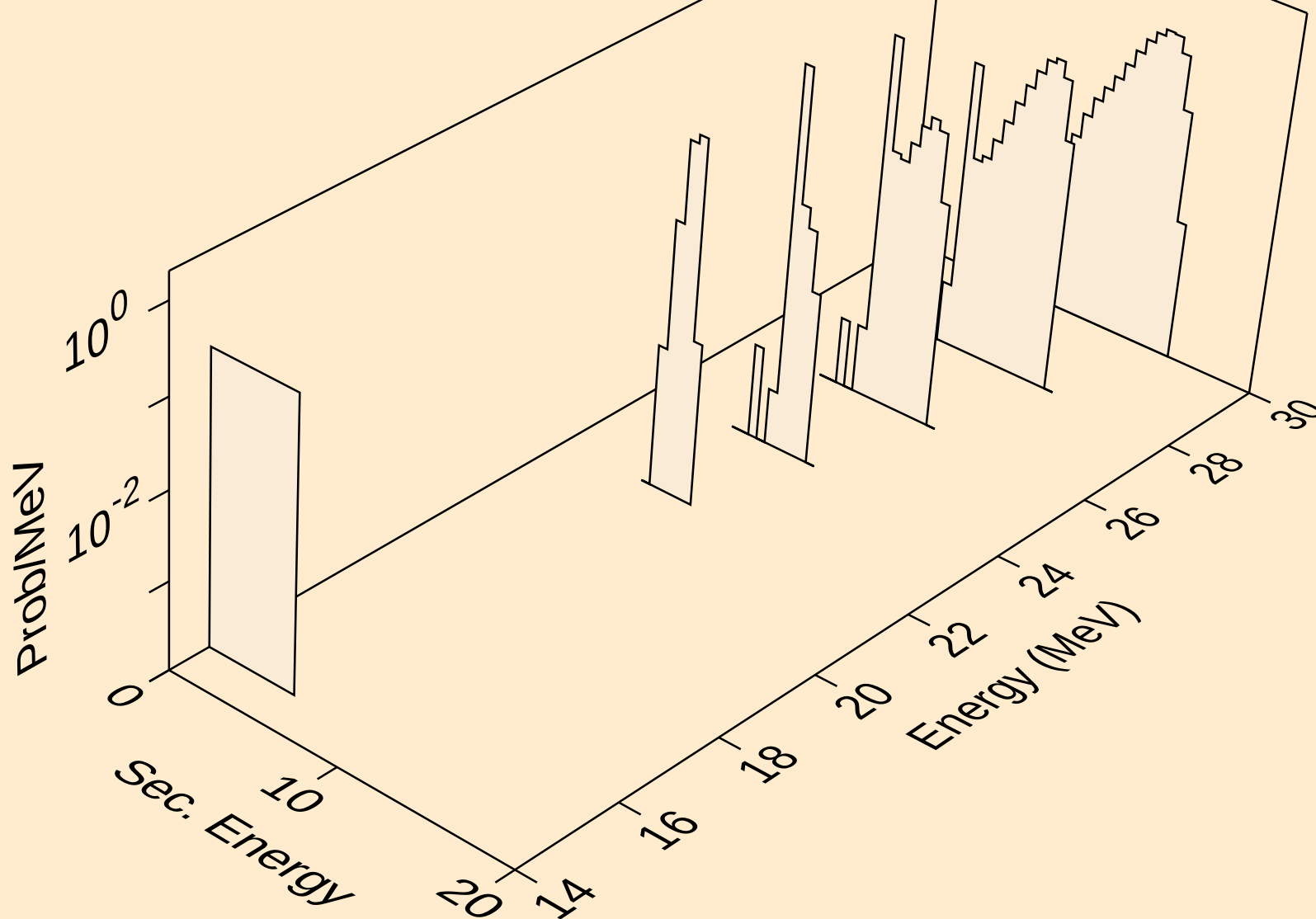
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

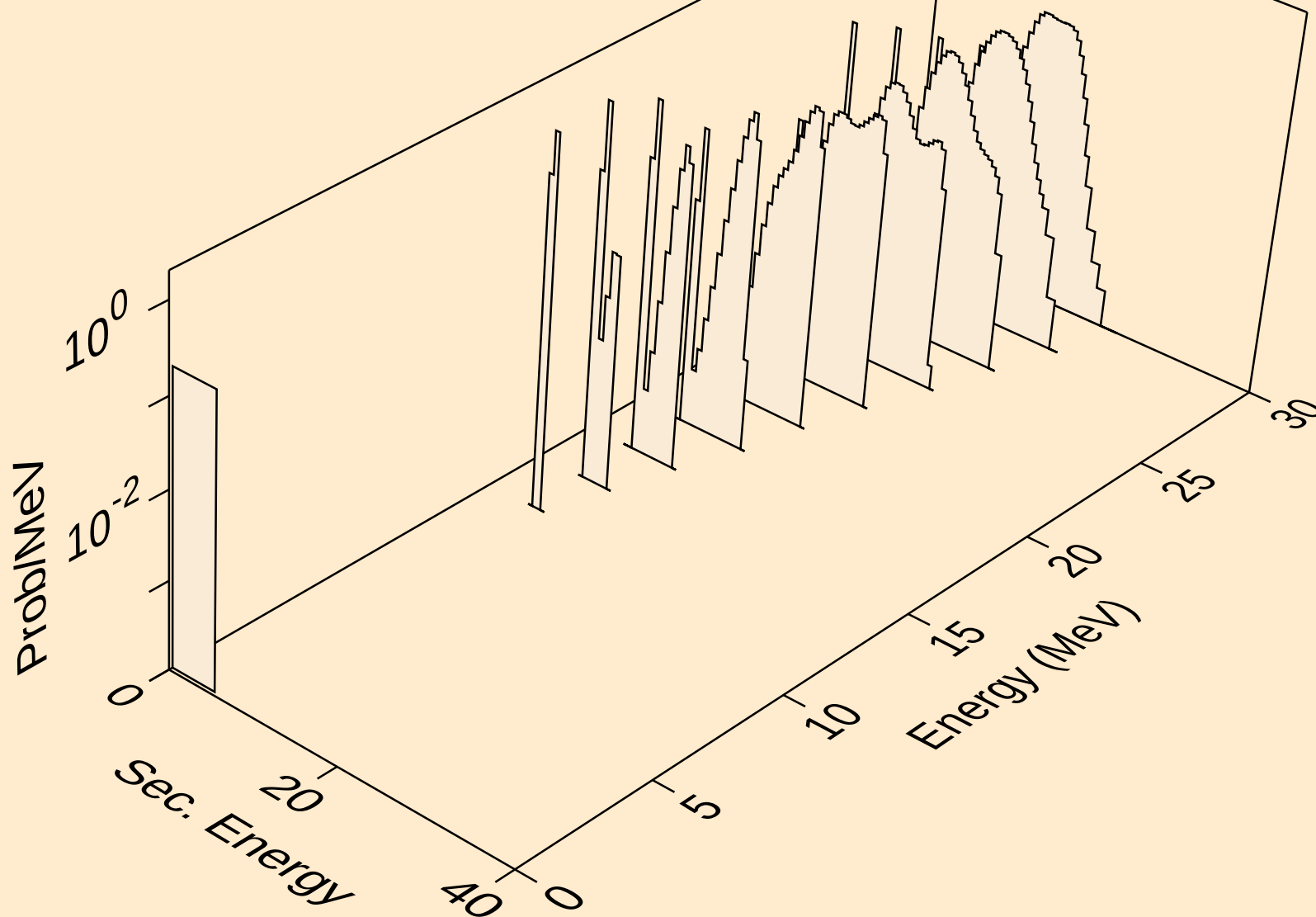


HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

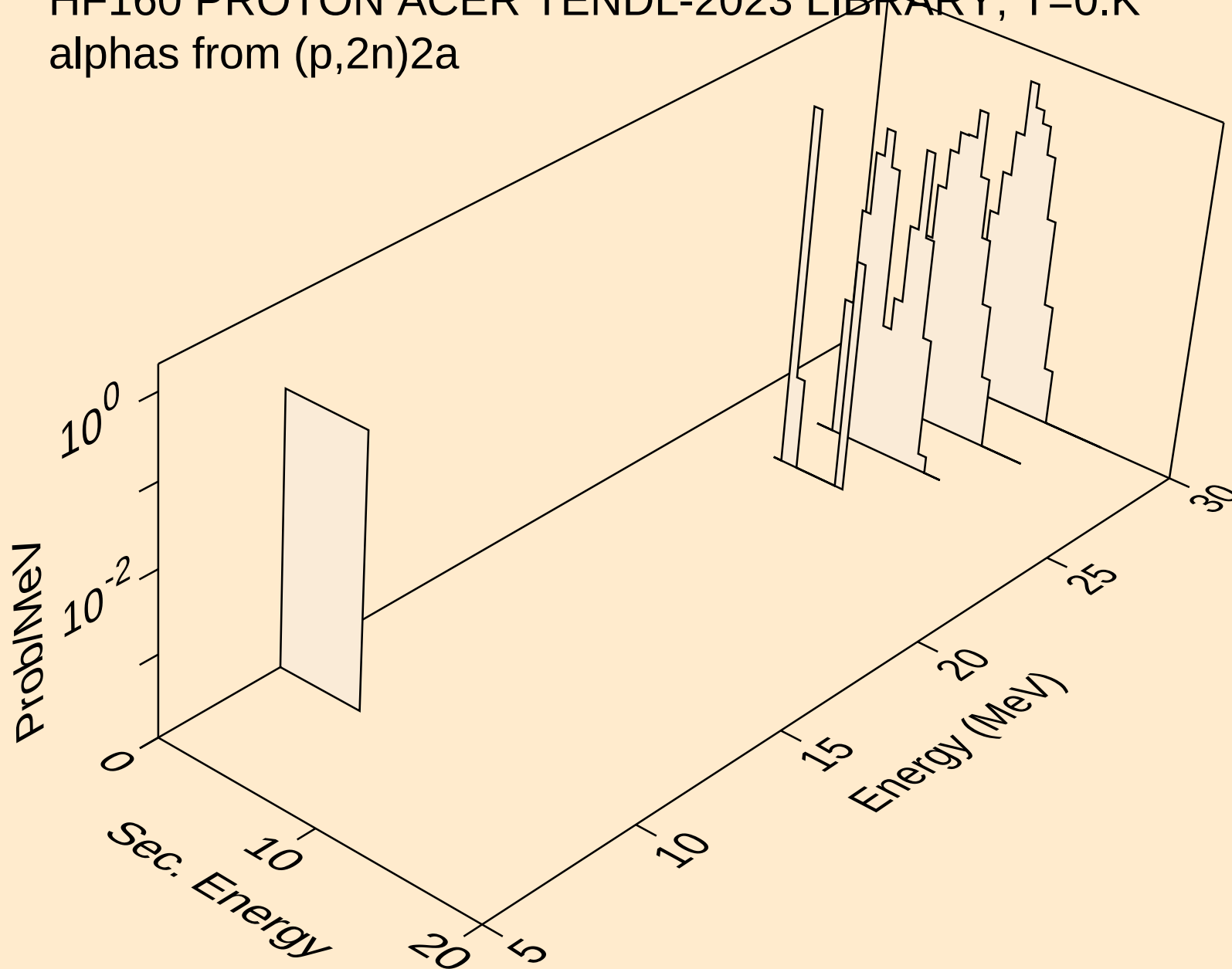




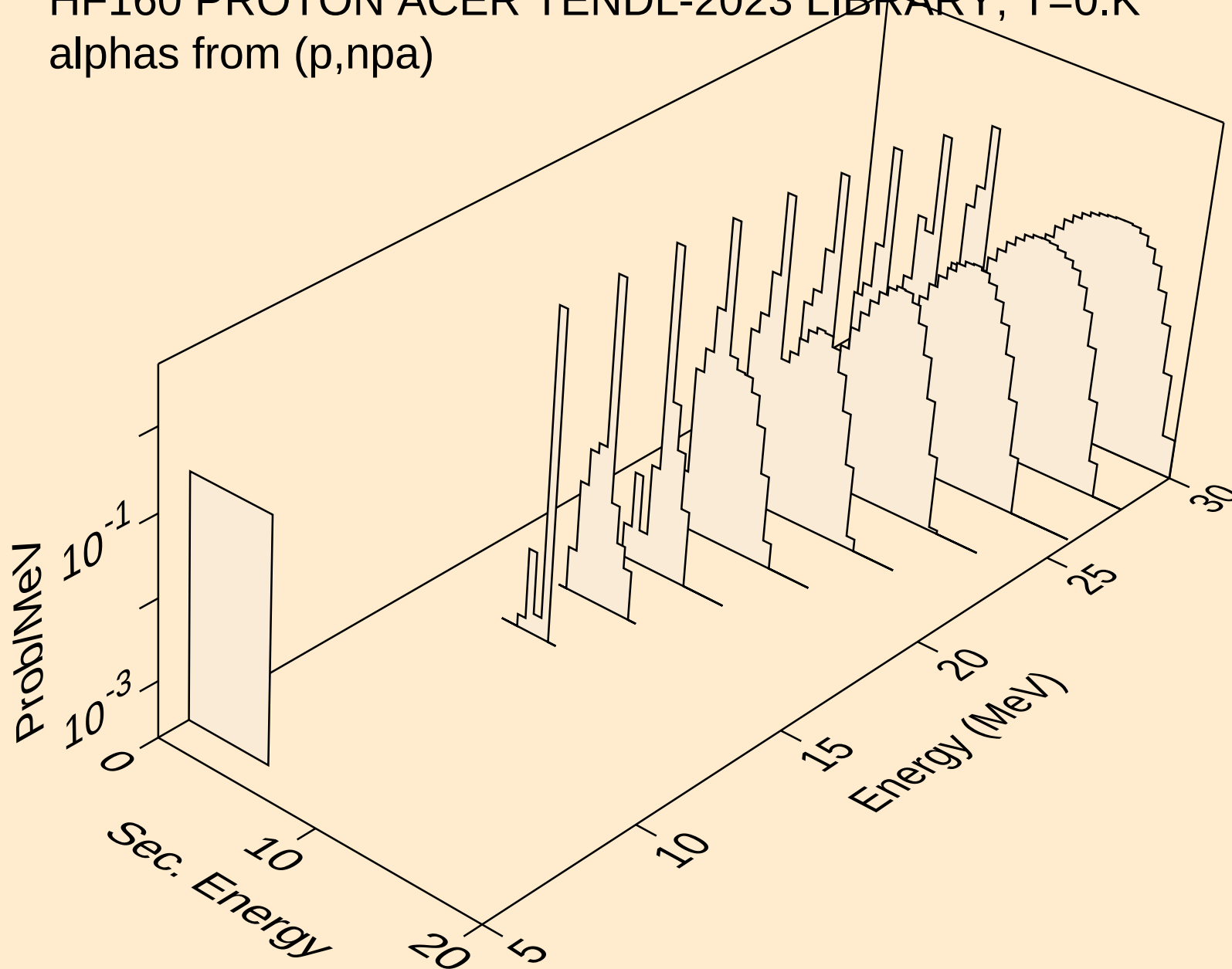
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



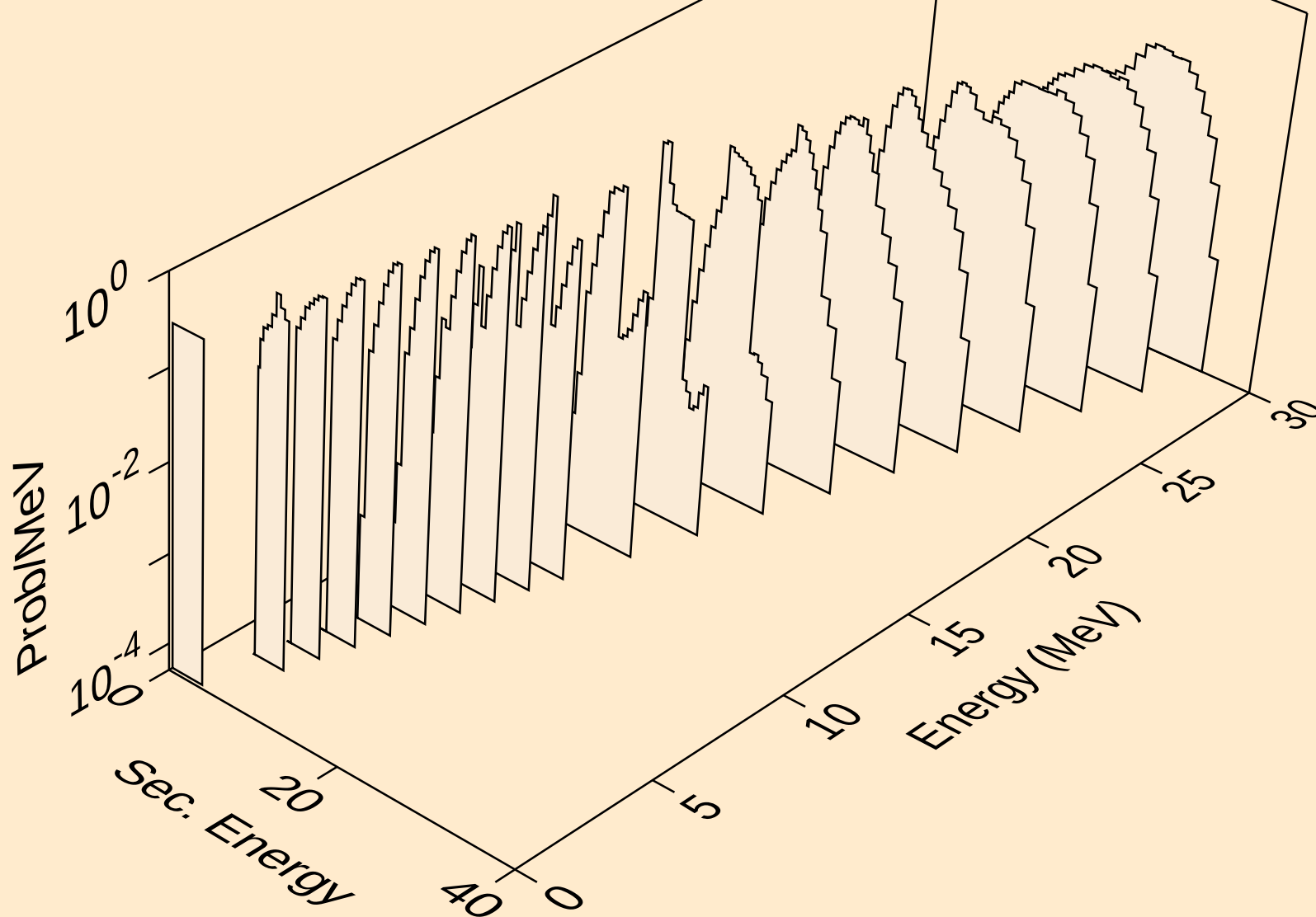
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)2a



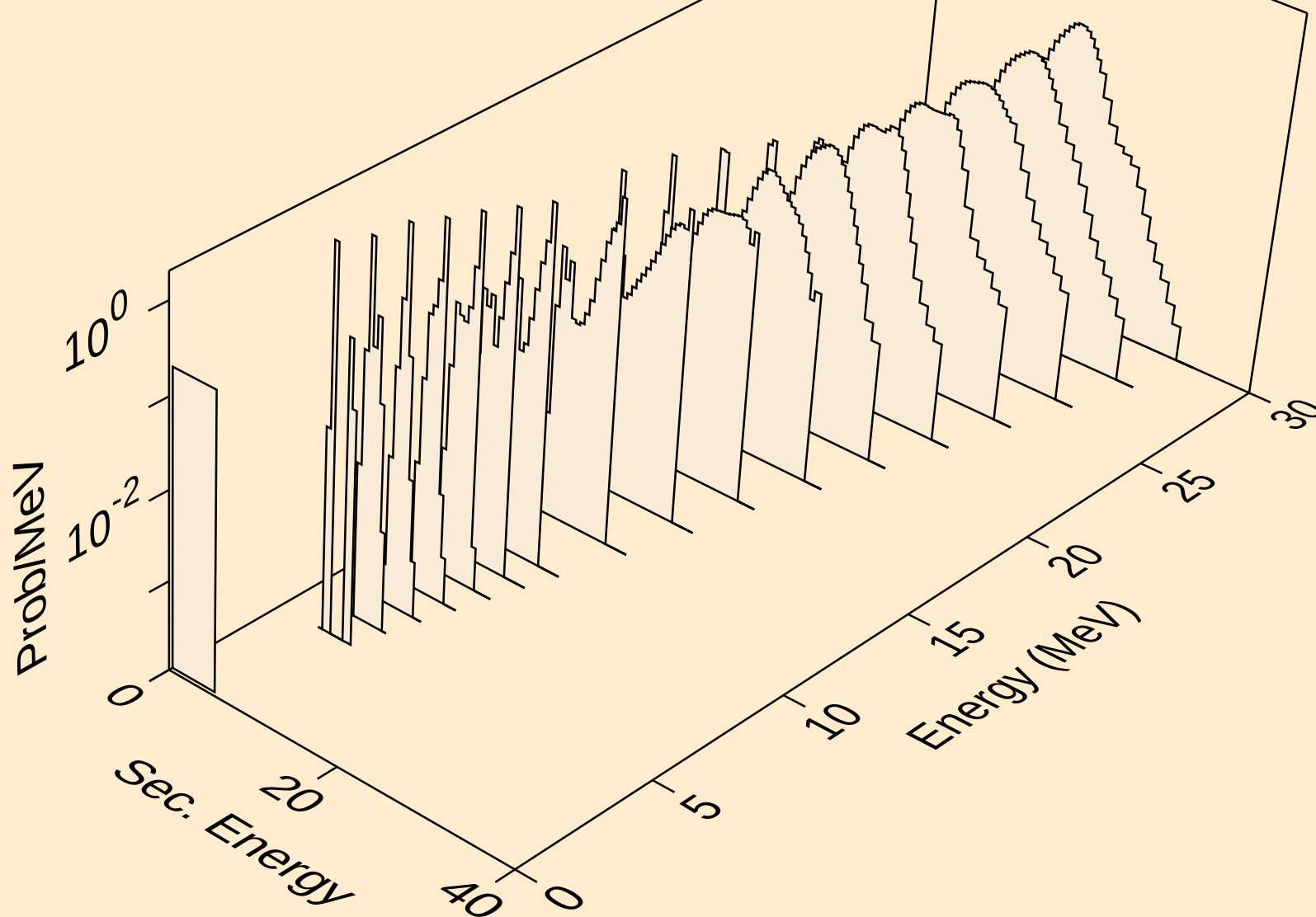
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



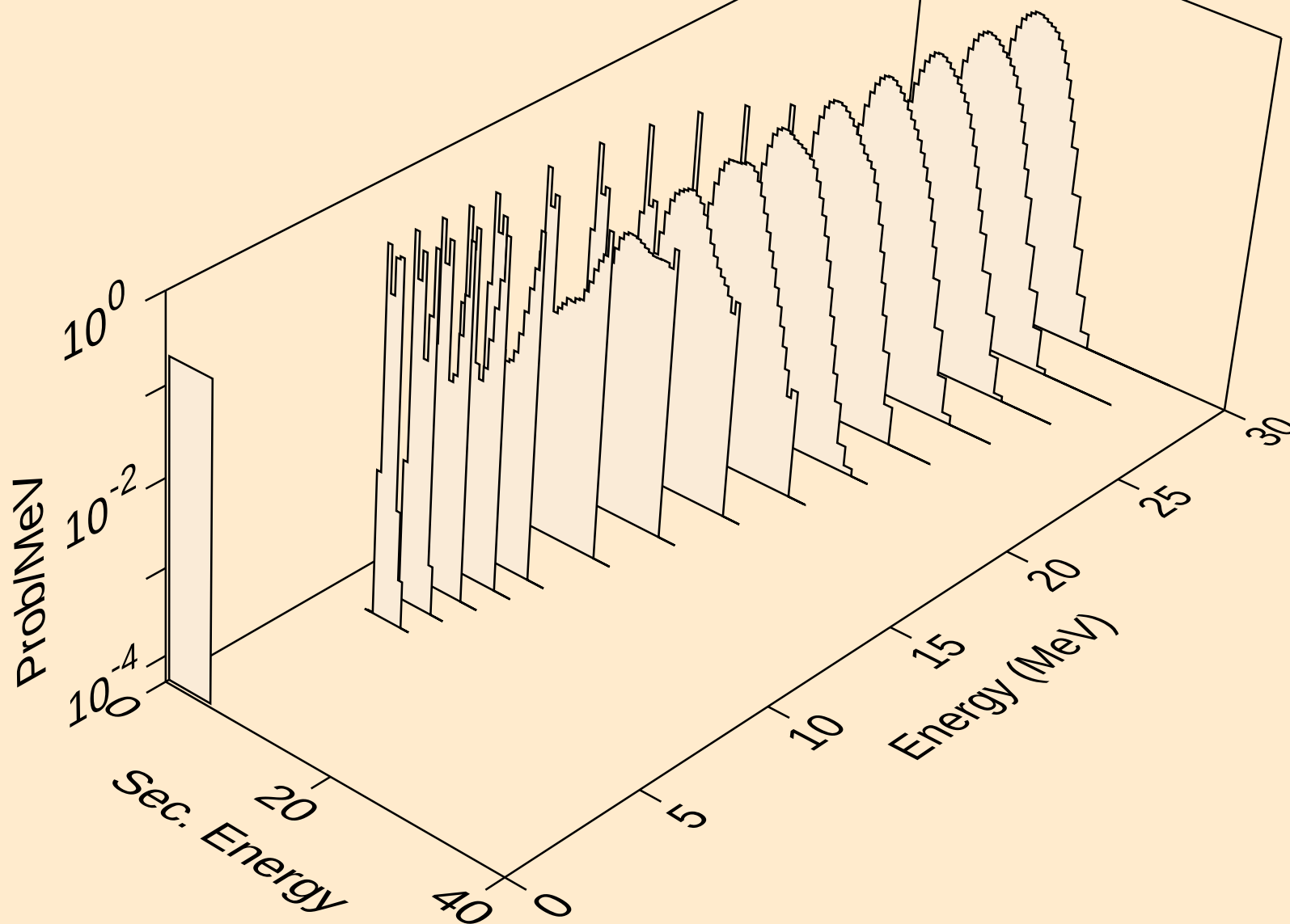
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



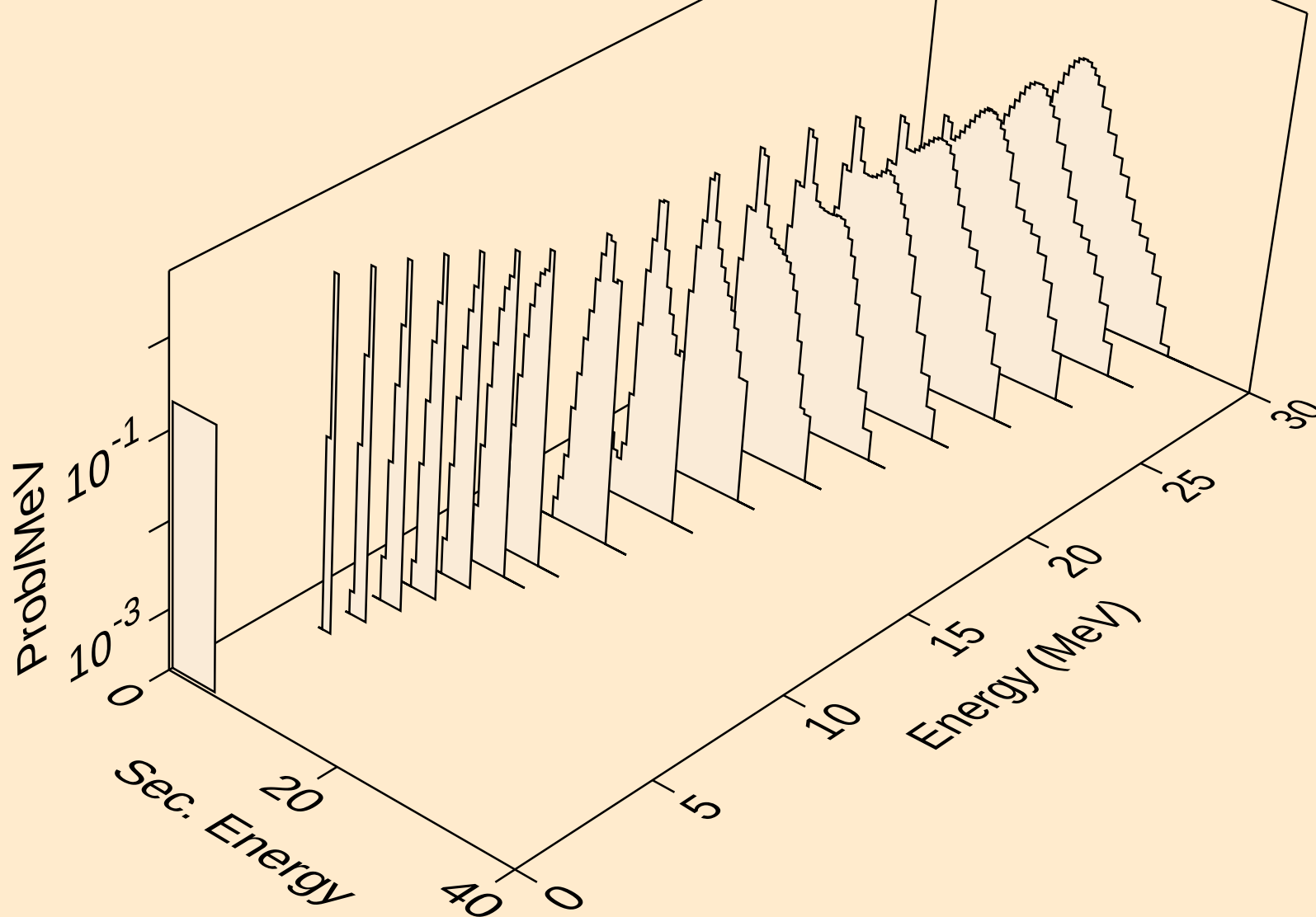
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



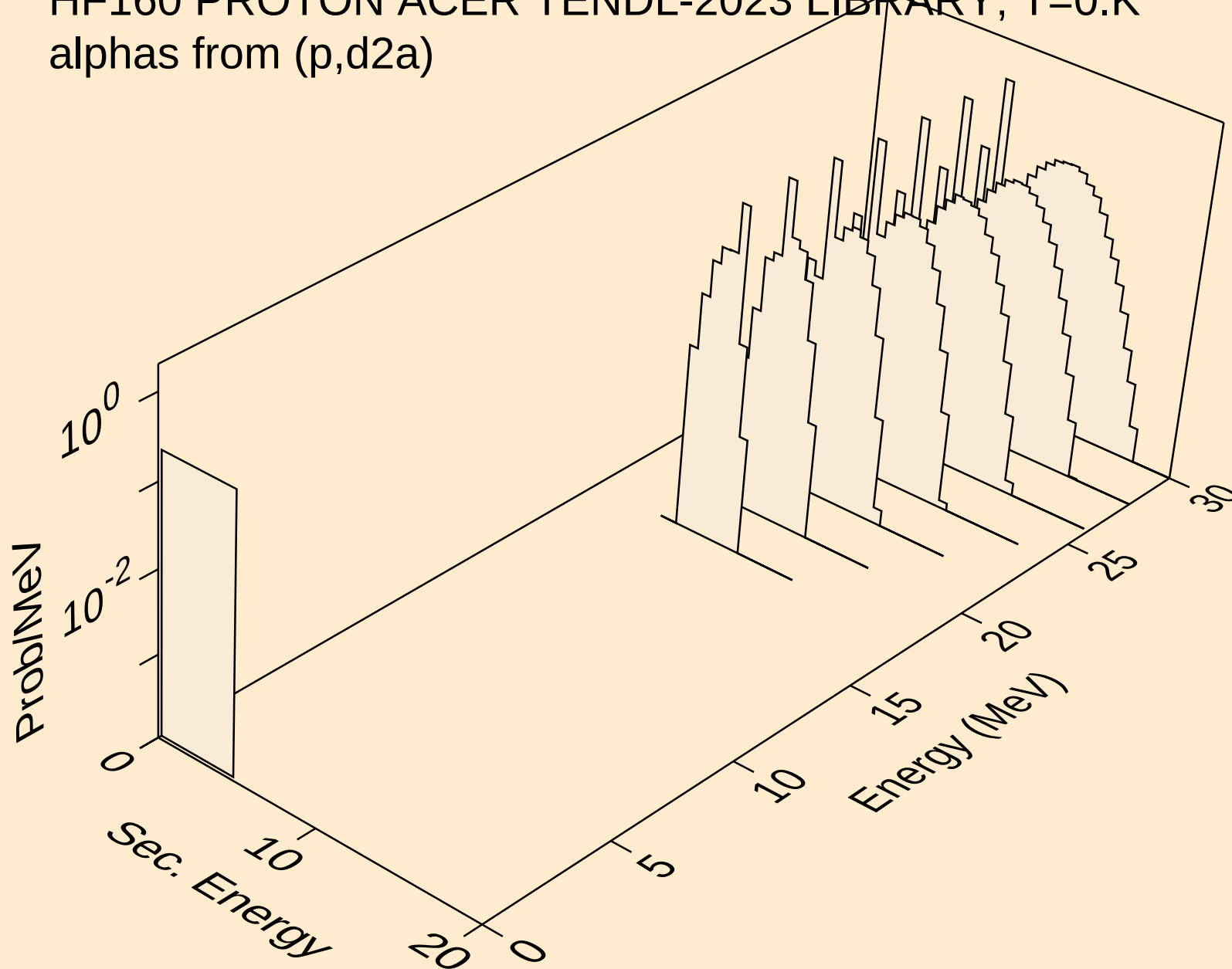
HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3a)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,d2a)





HF160 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

