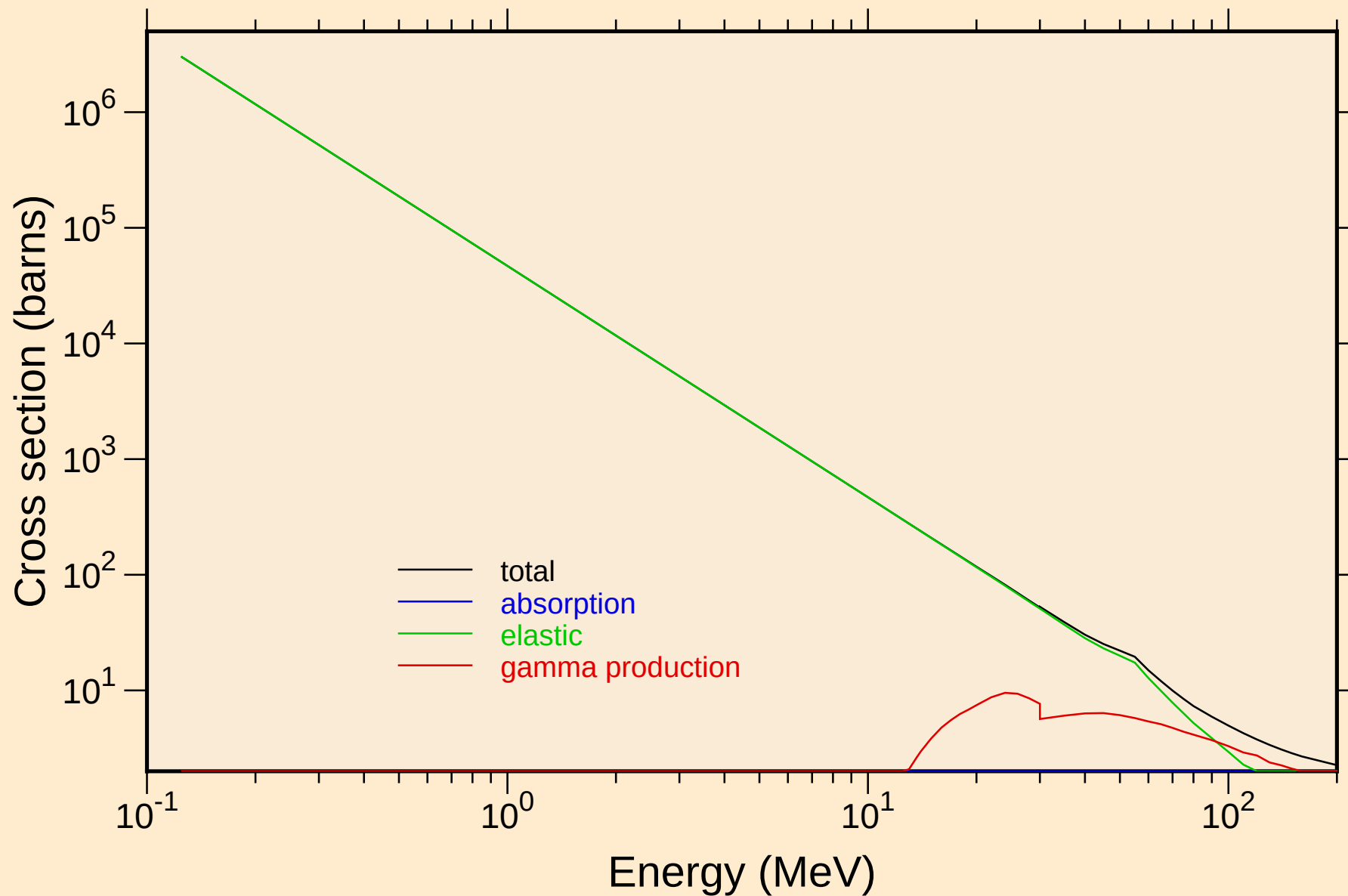


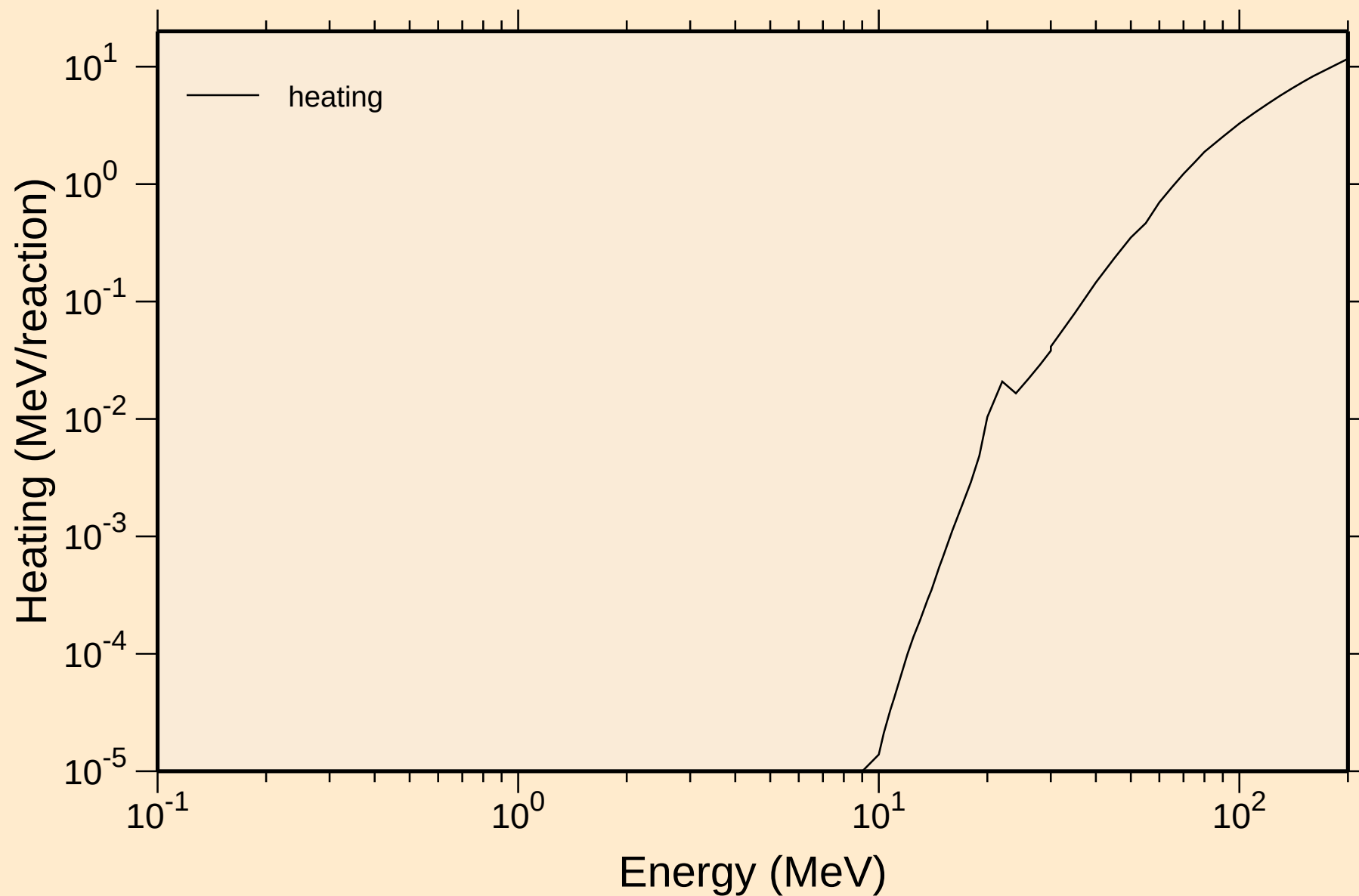
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



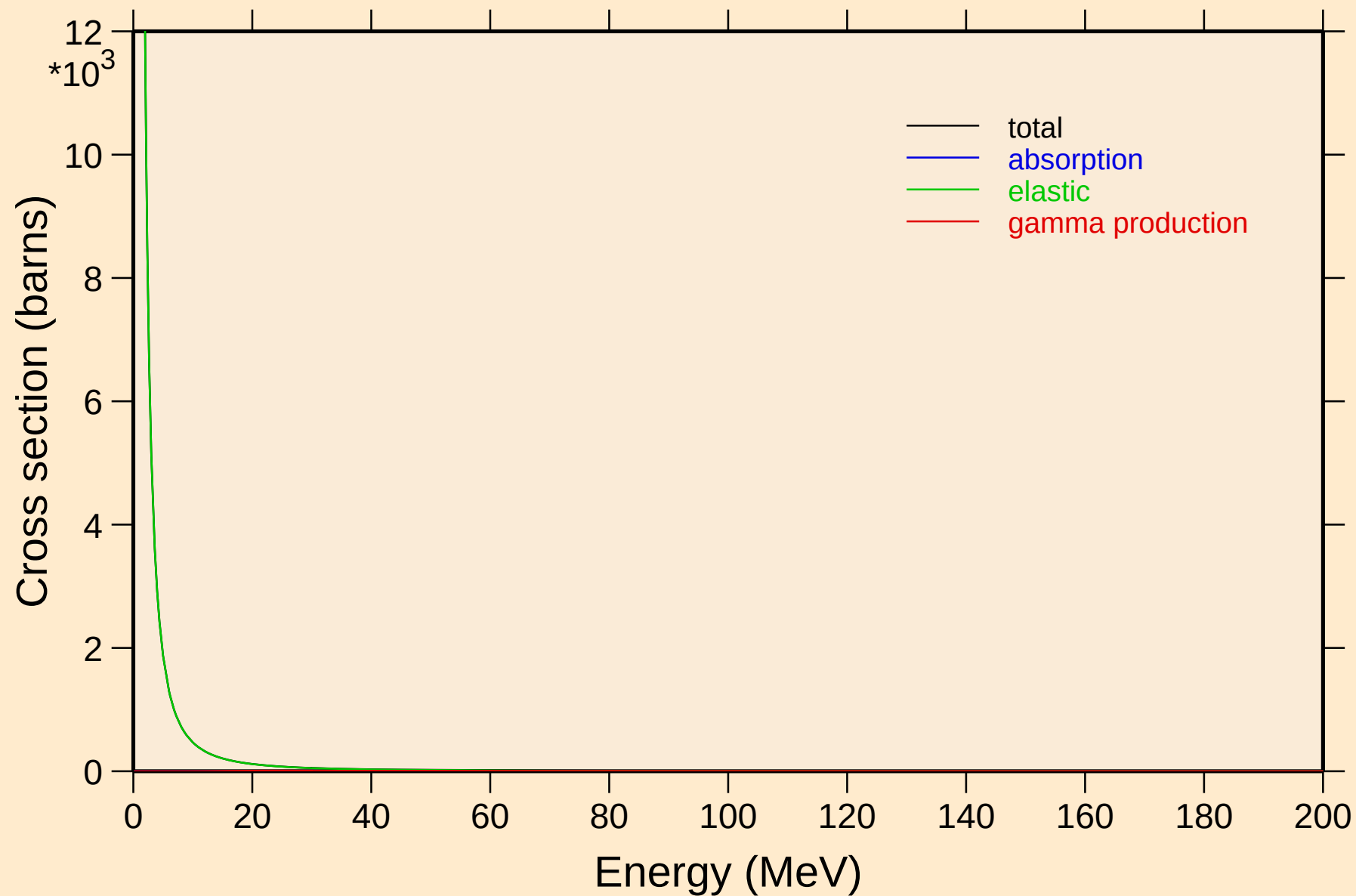
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



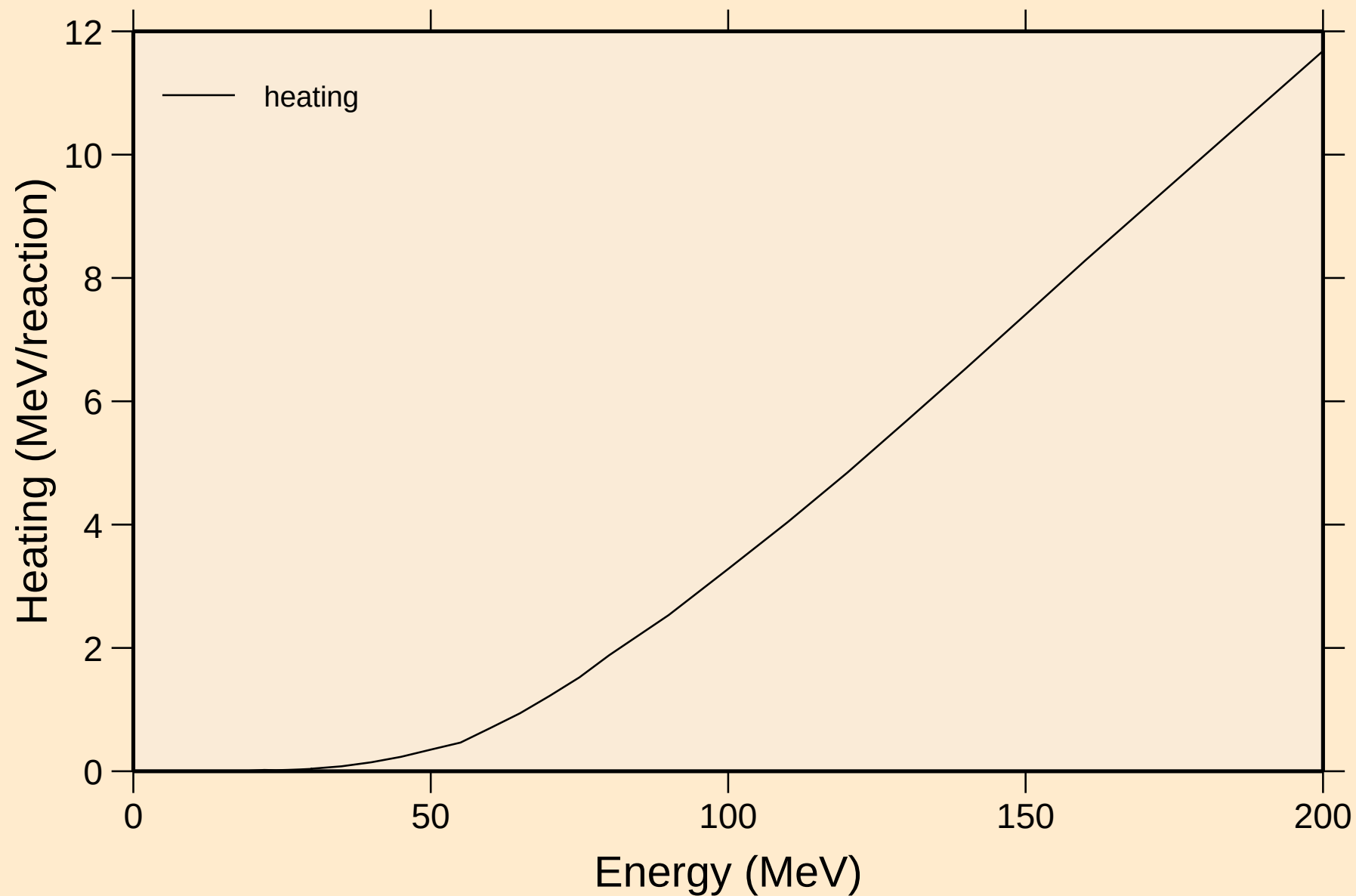
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



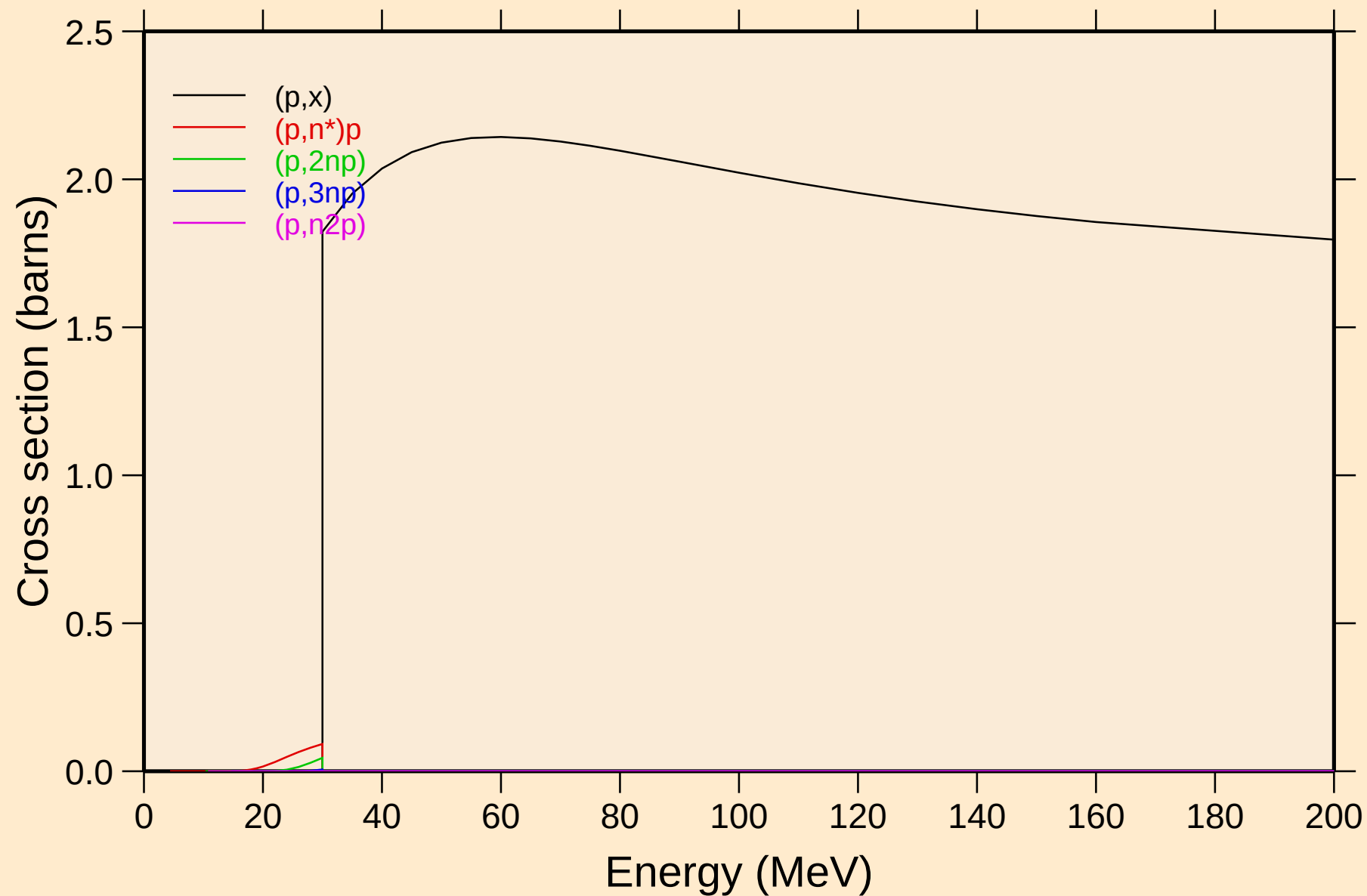
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



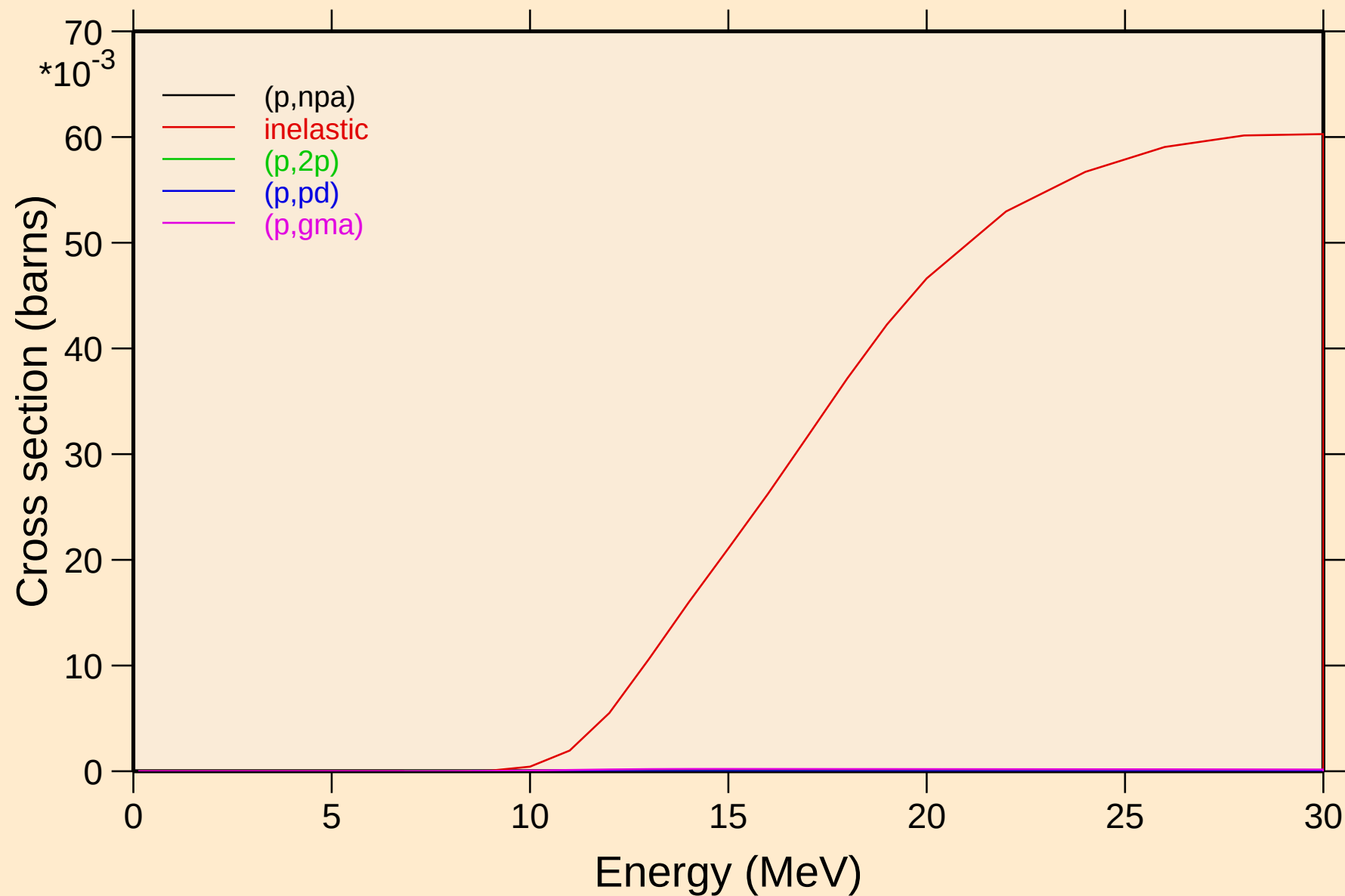
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions



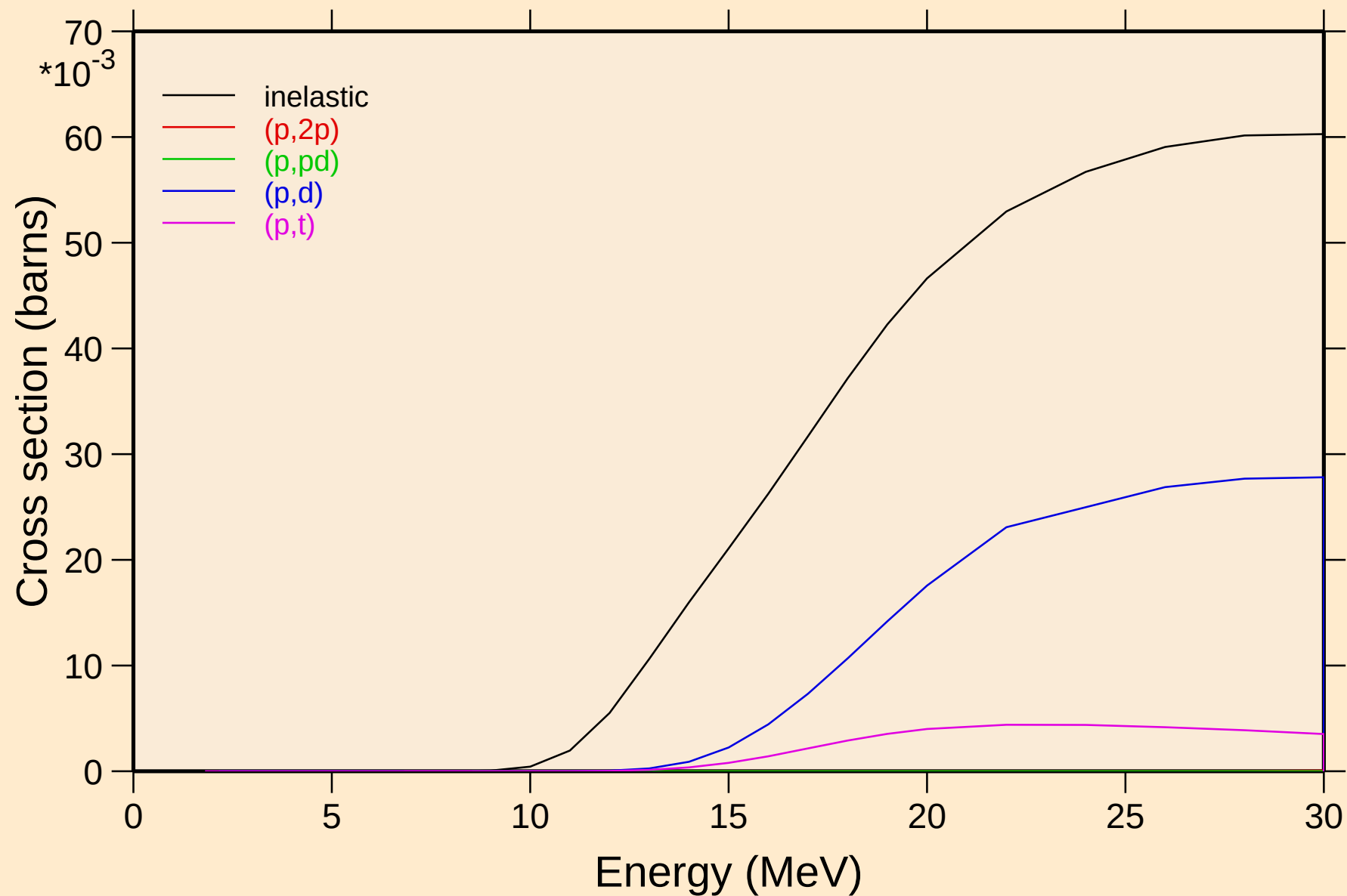
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions



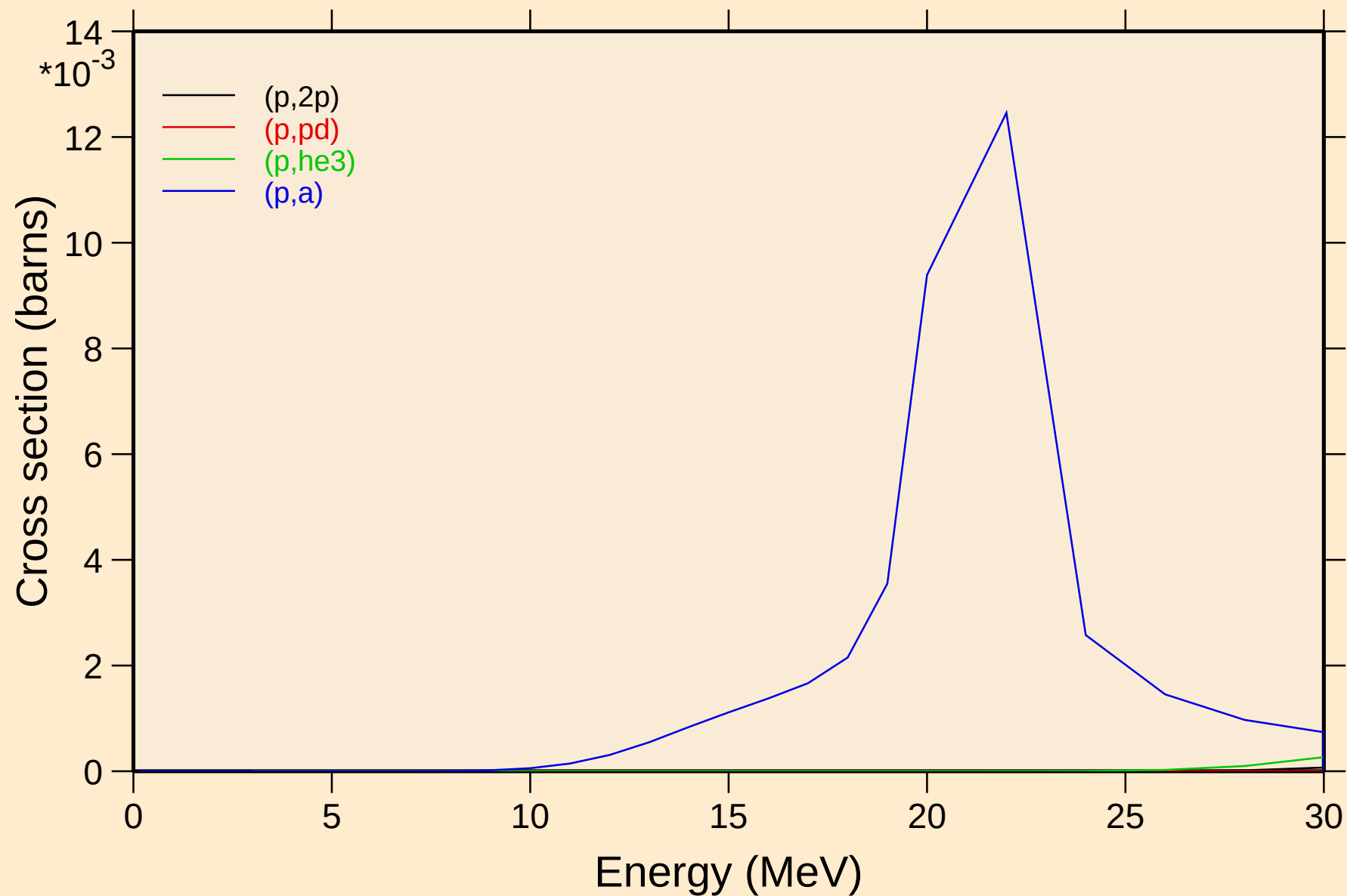
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Threshold reactions



# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

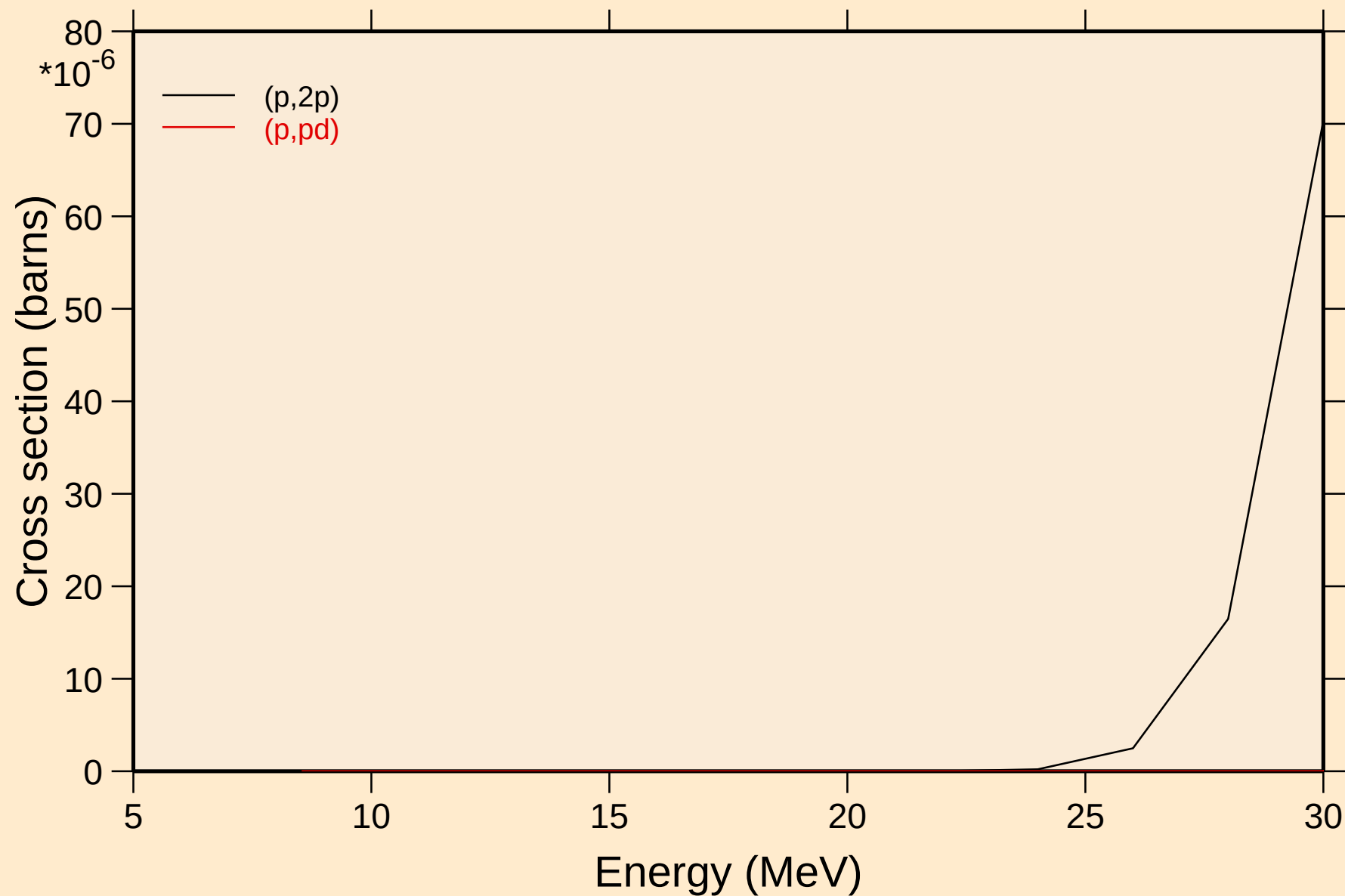
Threshold reactions



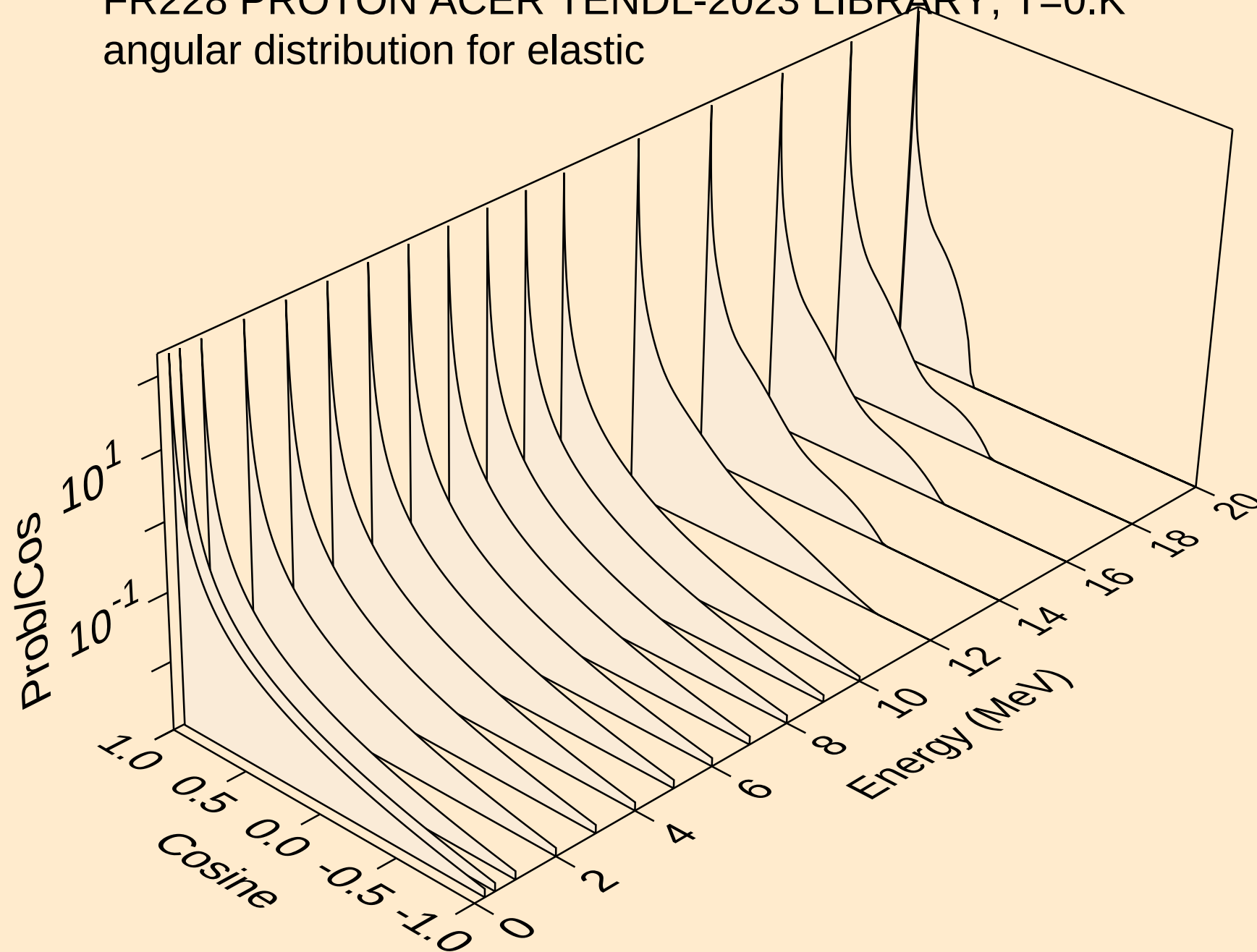


# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

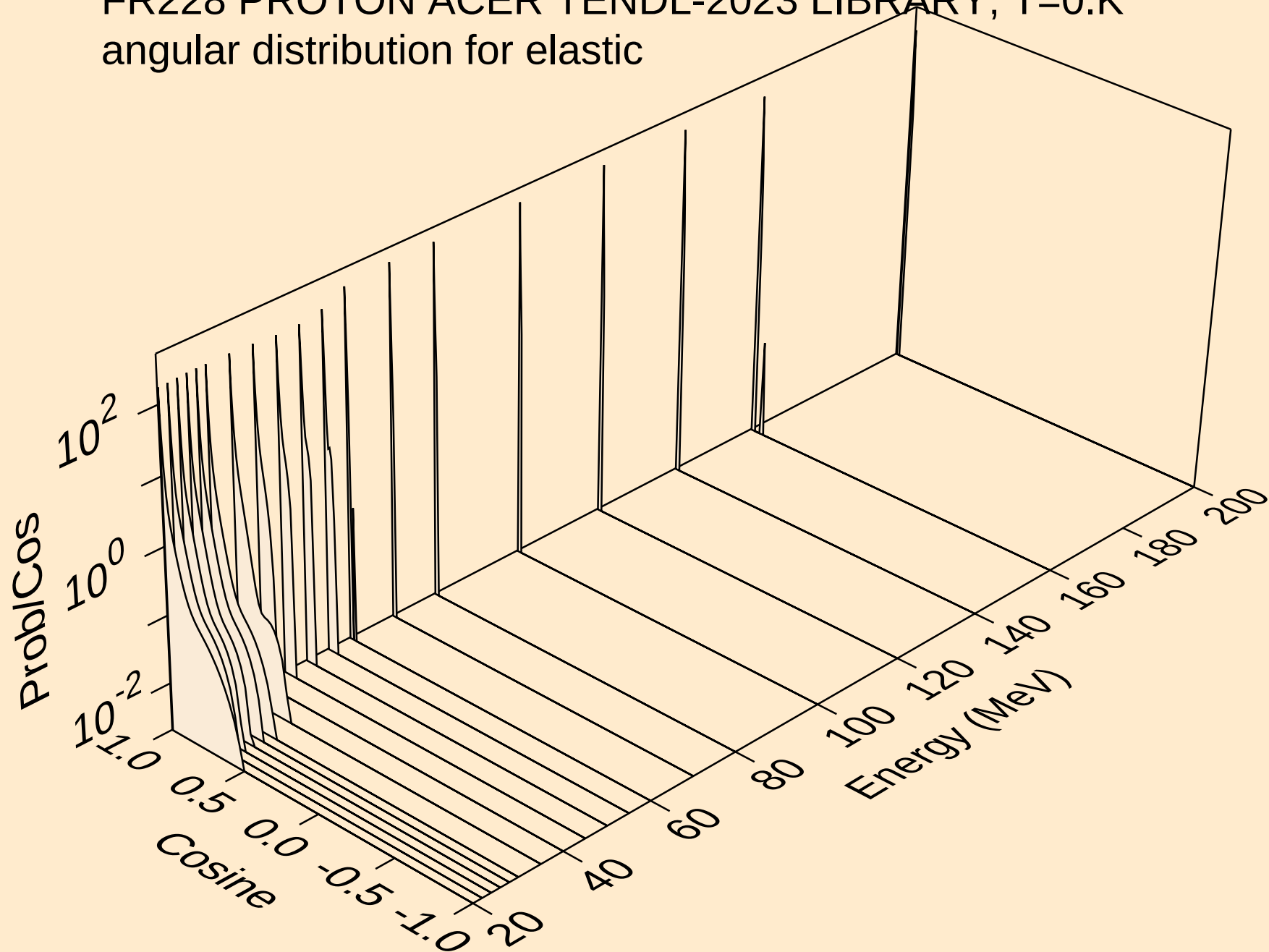
Threshold reactions



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

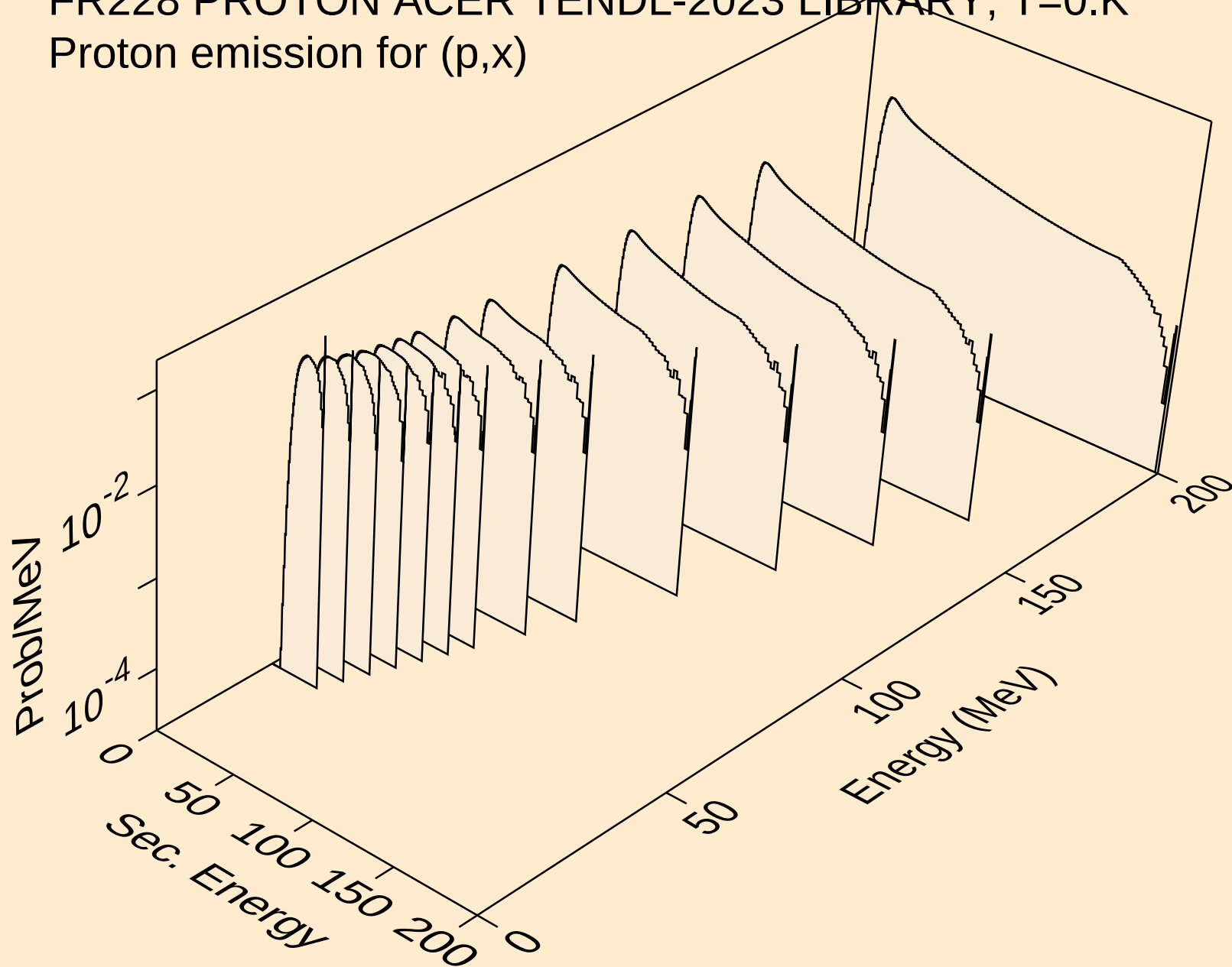


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



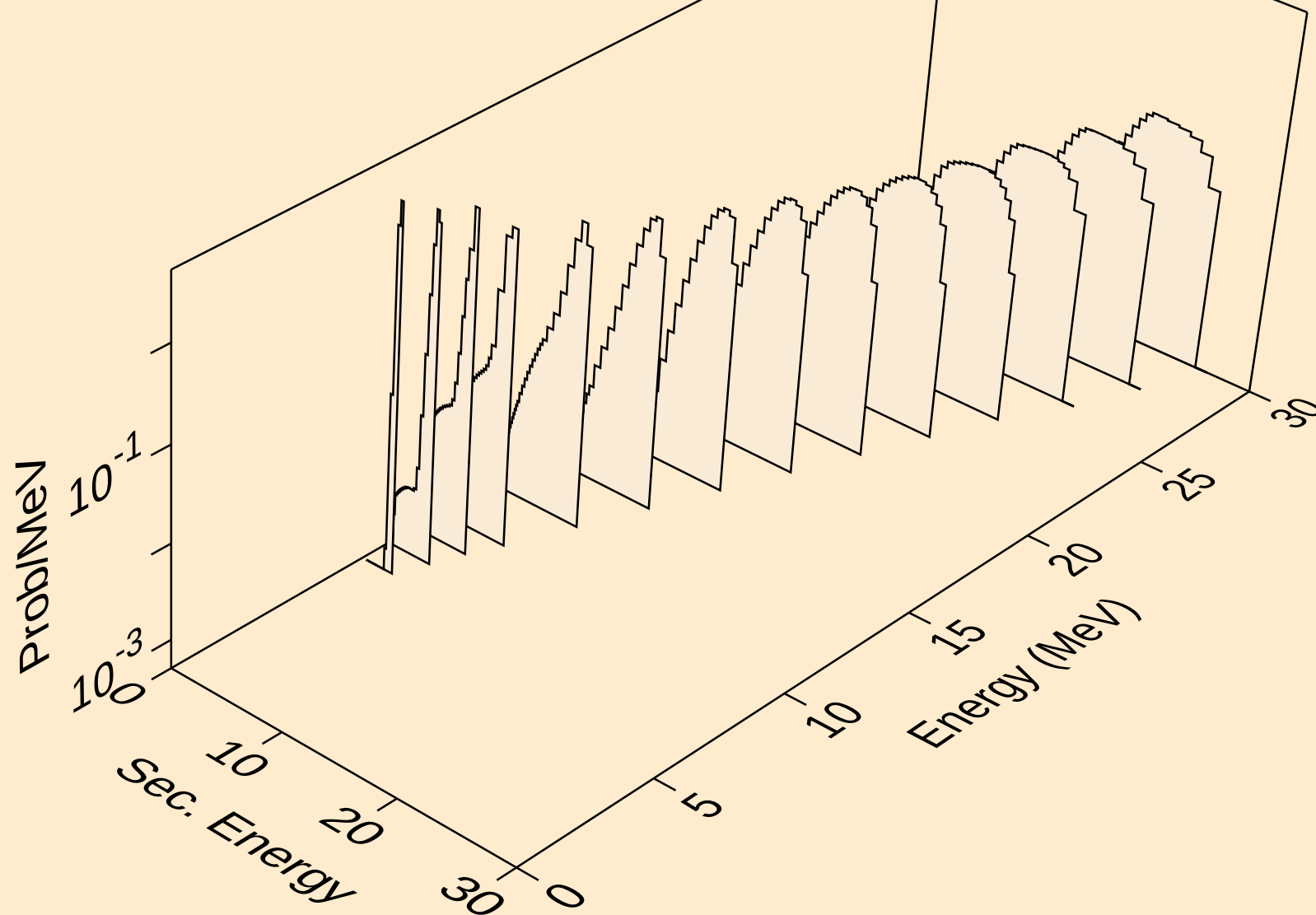
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,x)

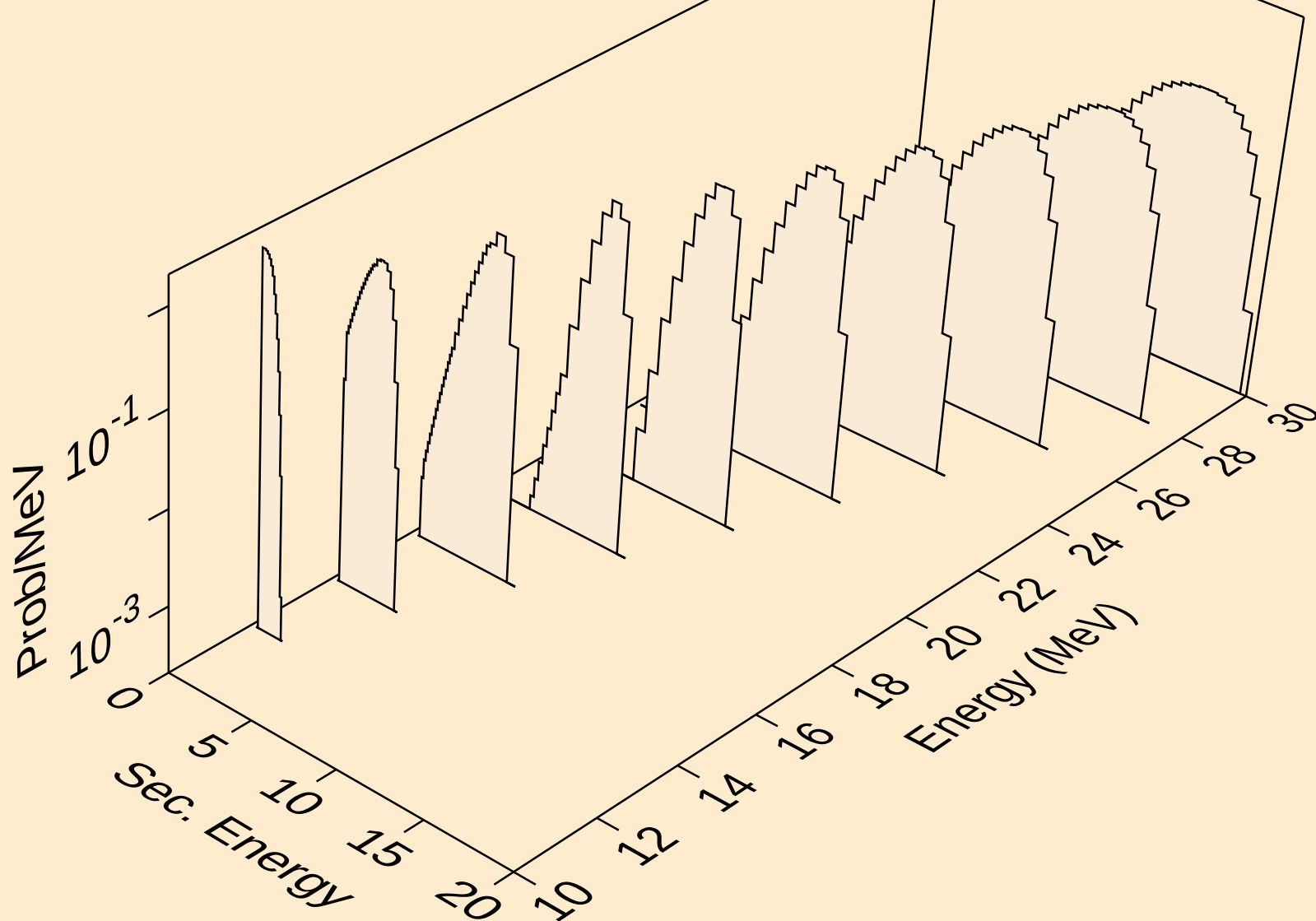


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

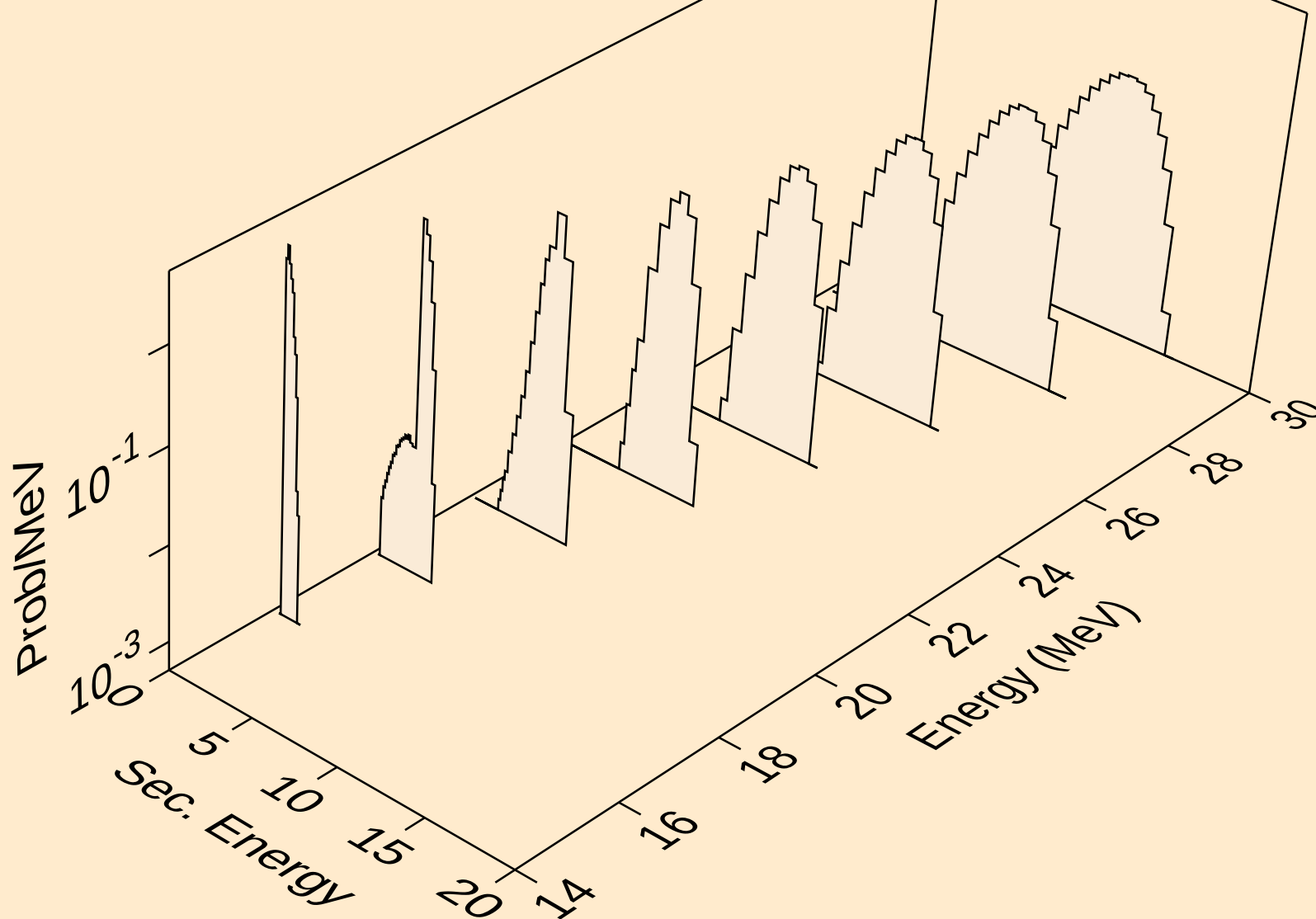
Proton emission for (p,n\*)p



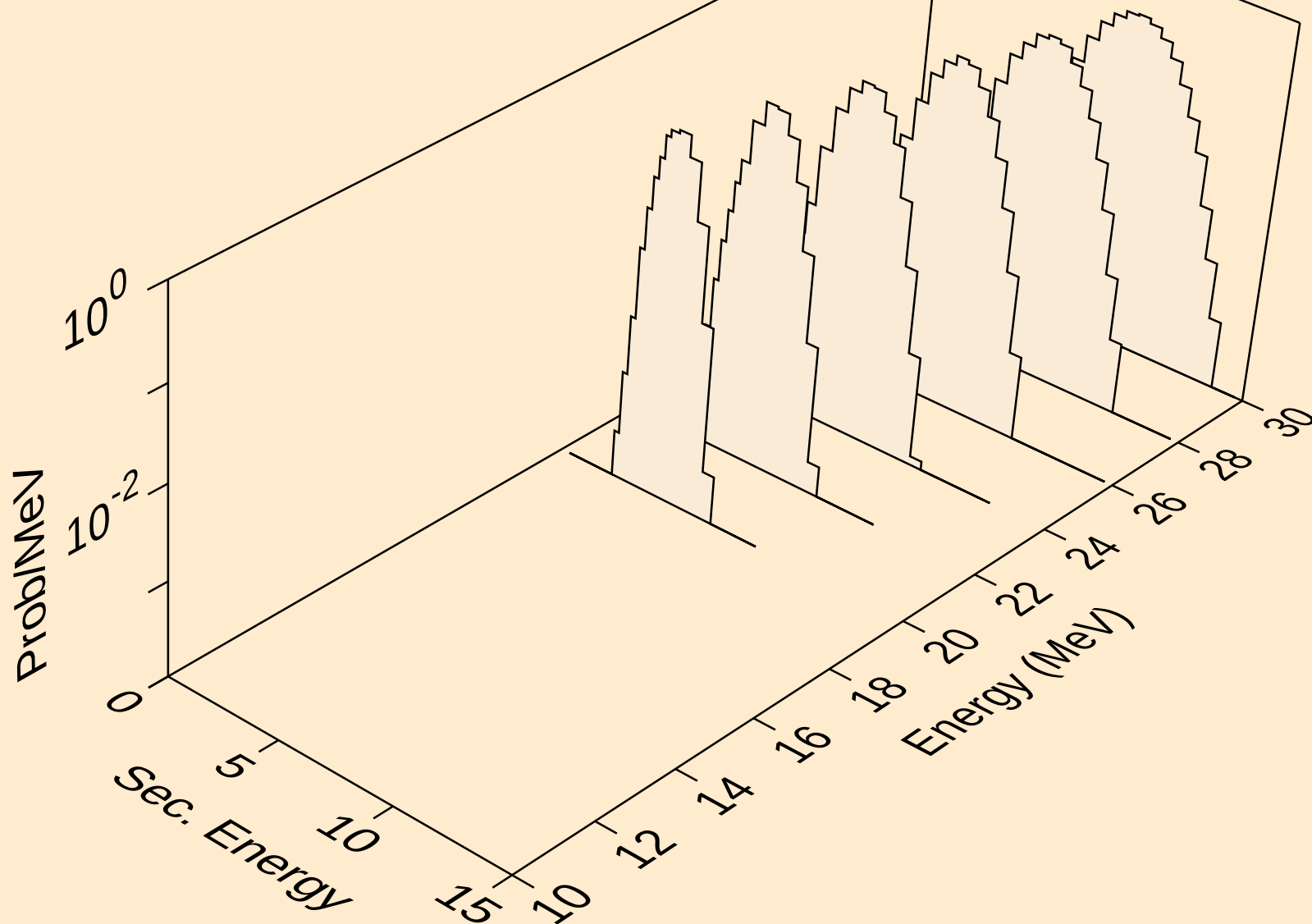
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)

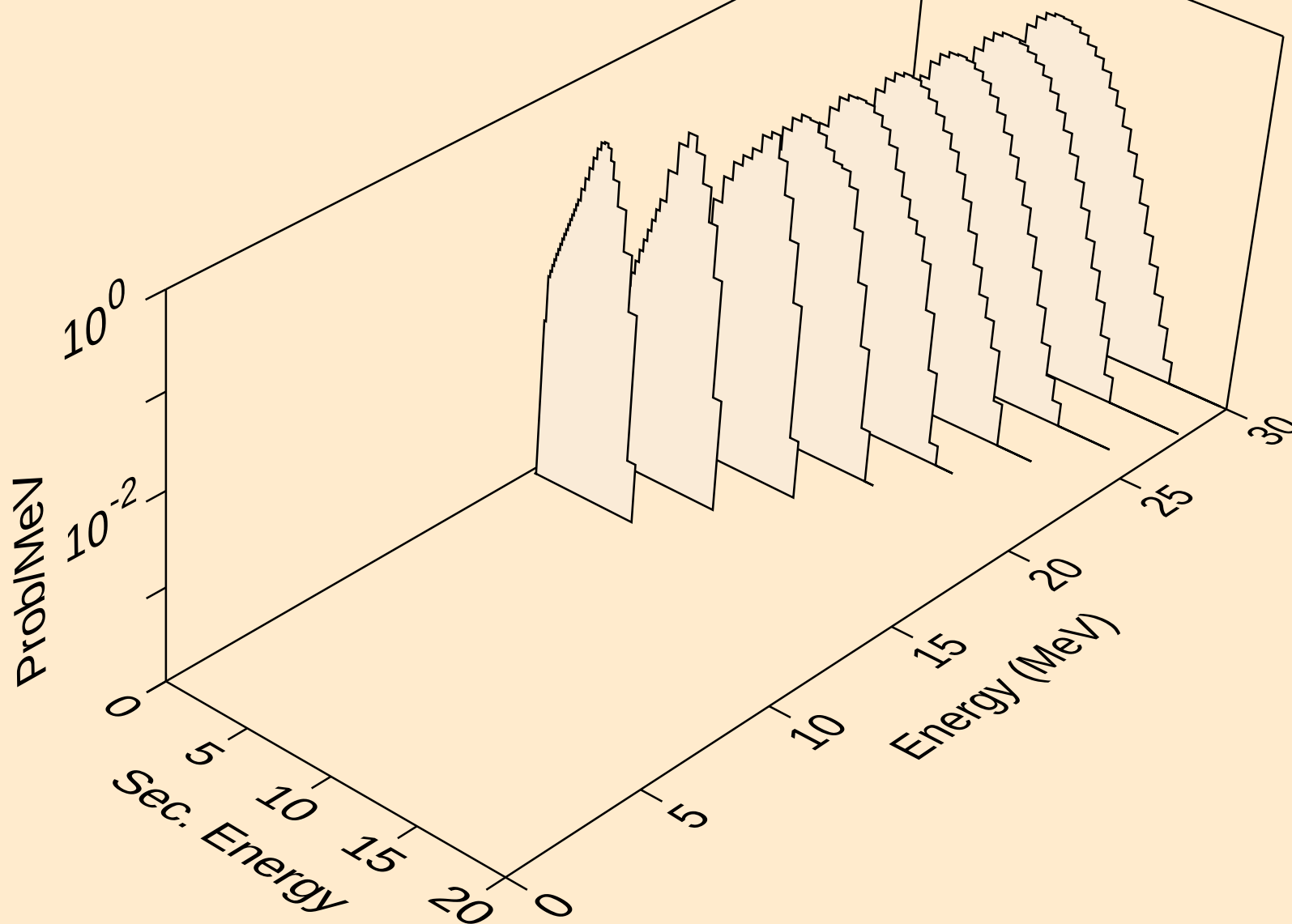


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)

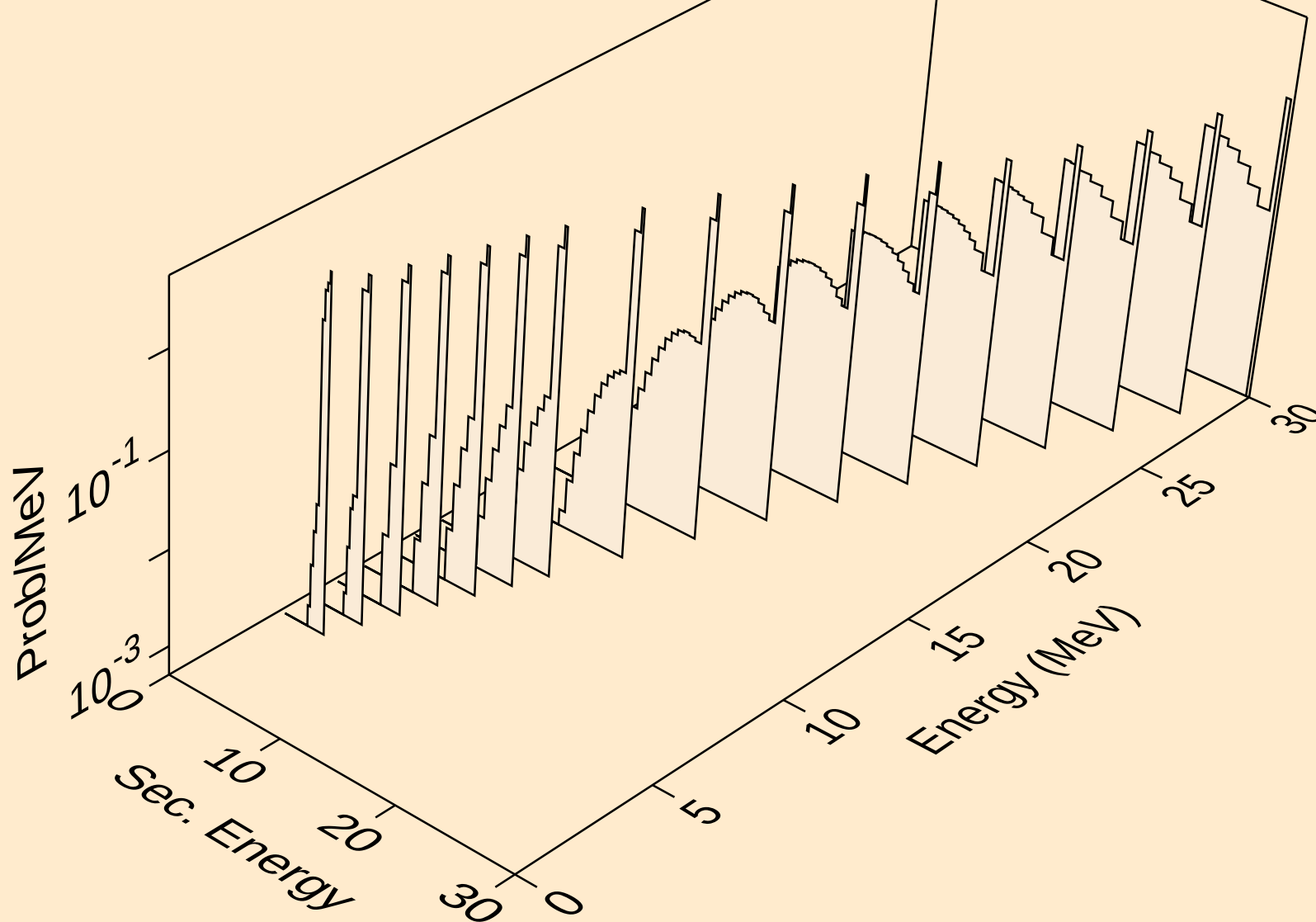




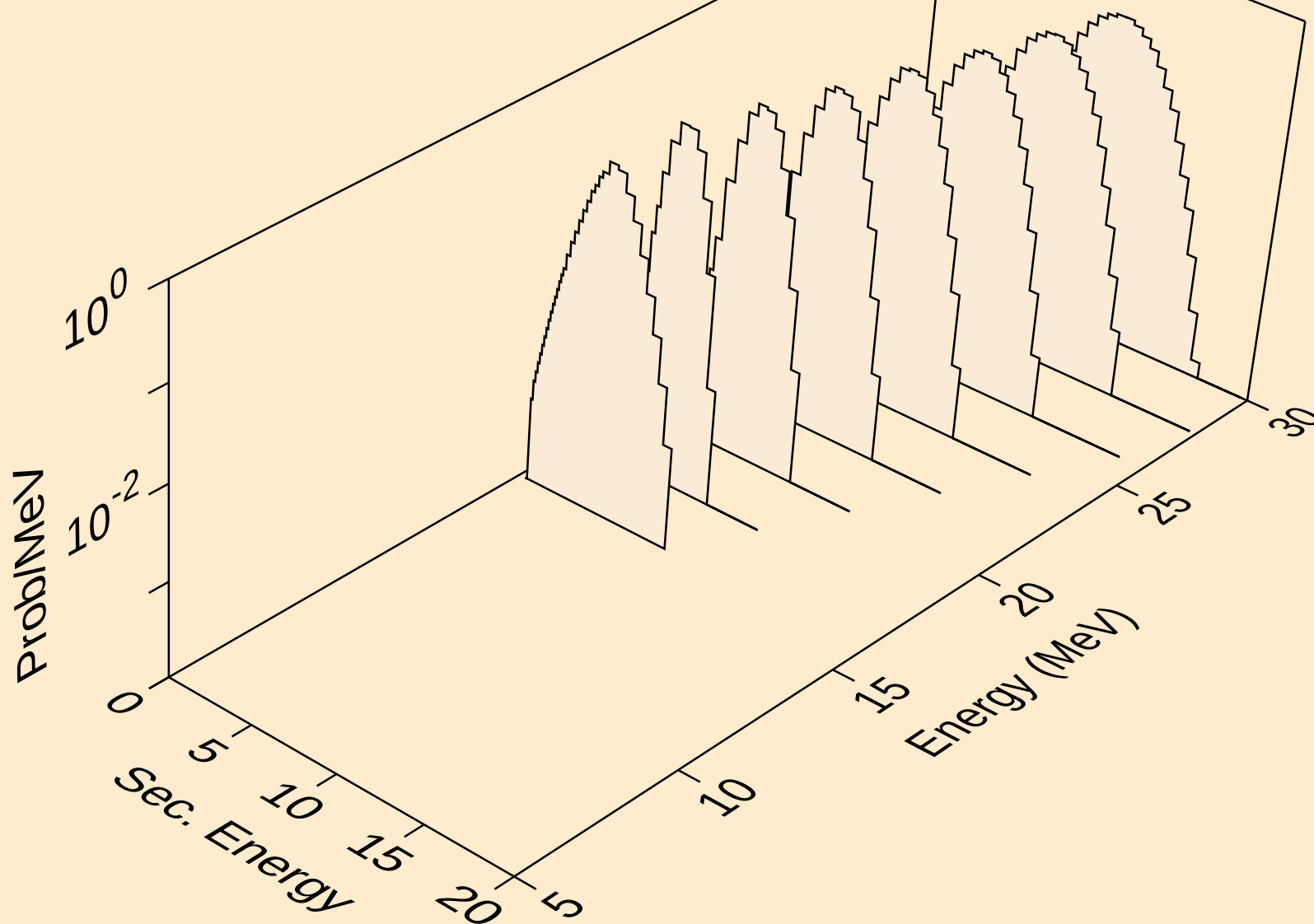
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

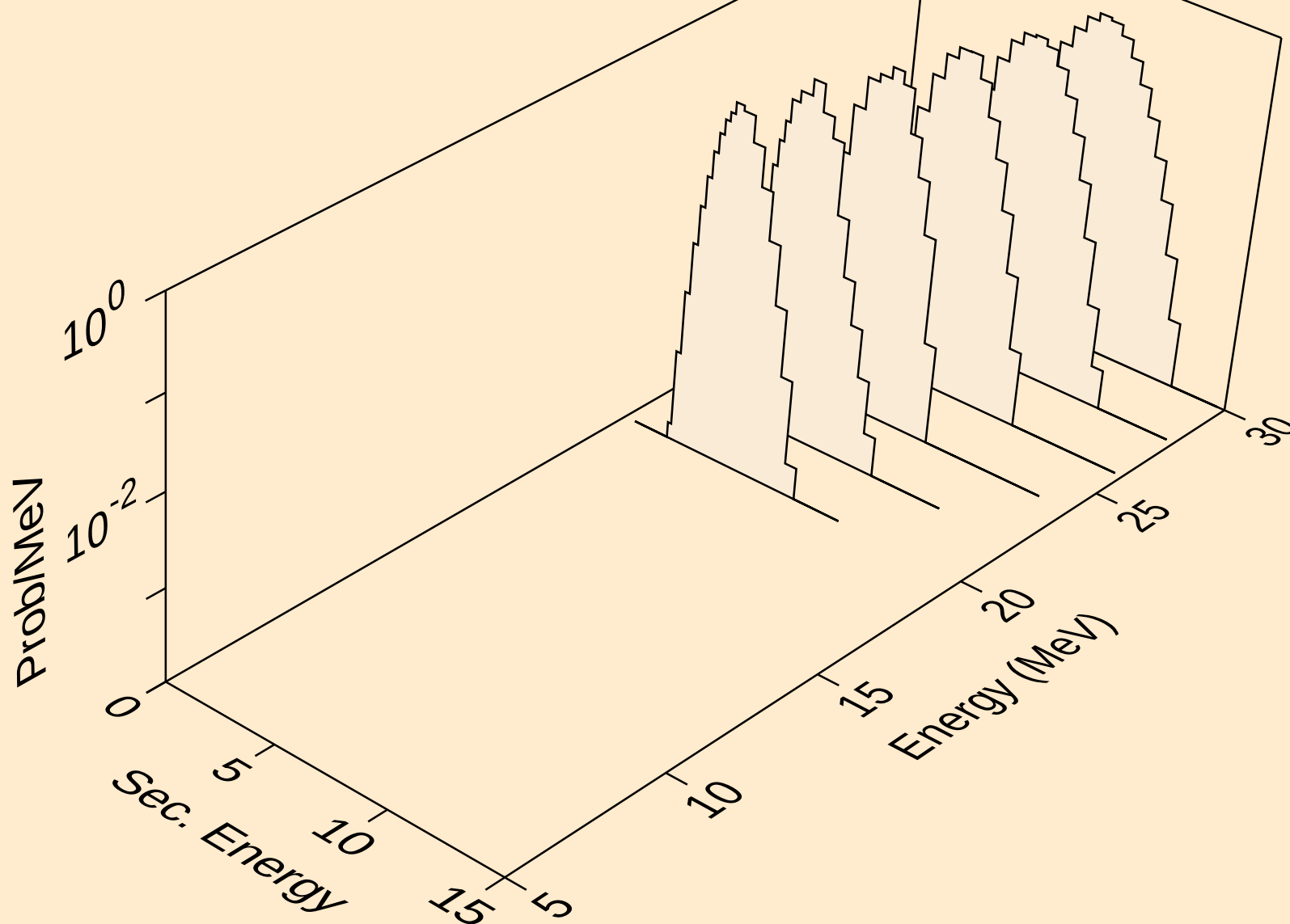


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)

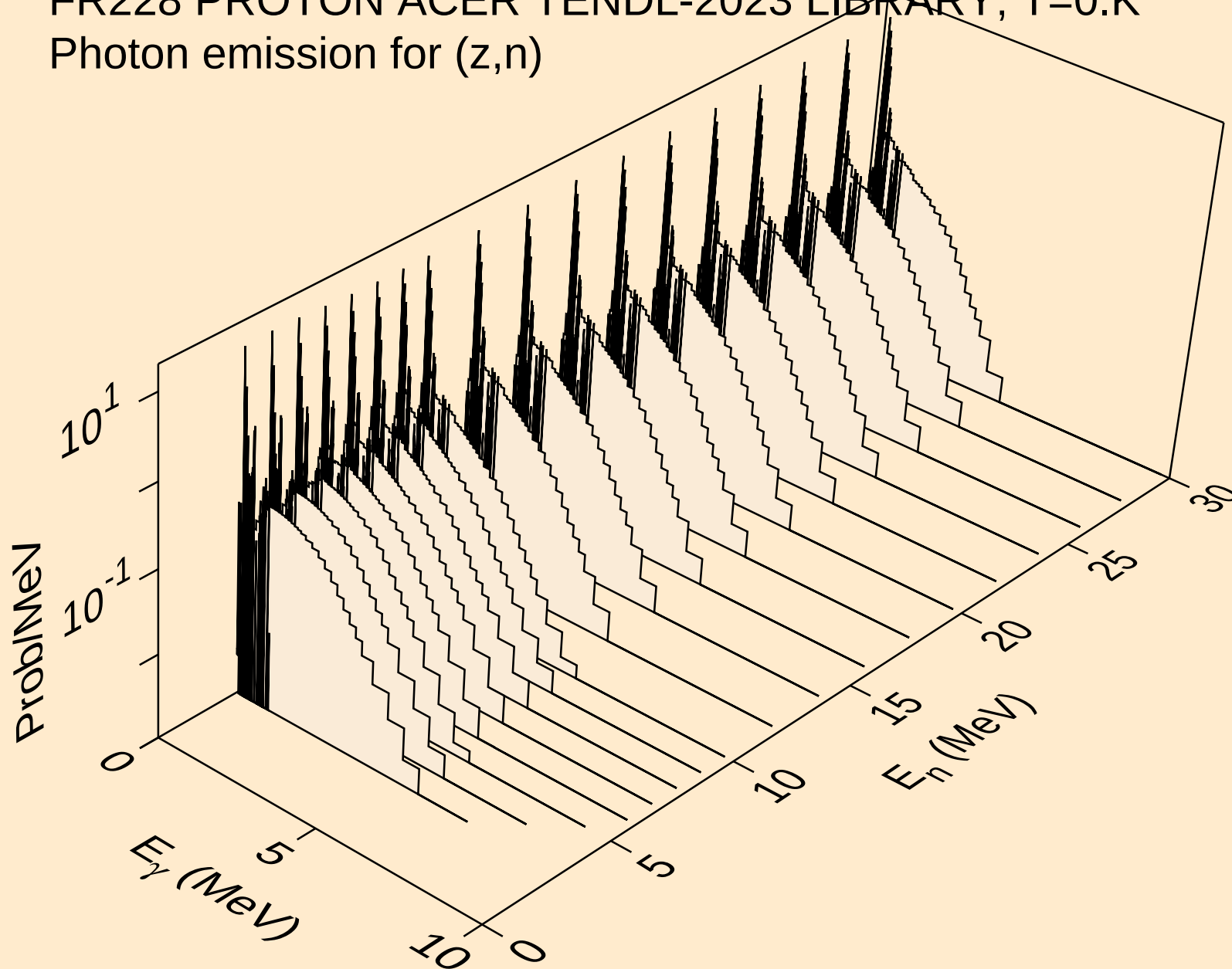


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Proton emission for (p,pd)

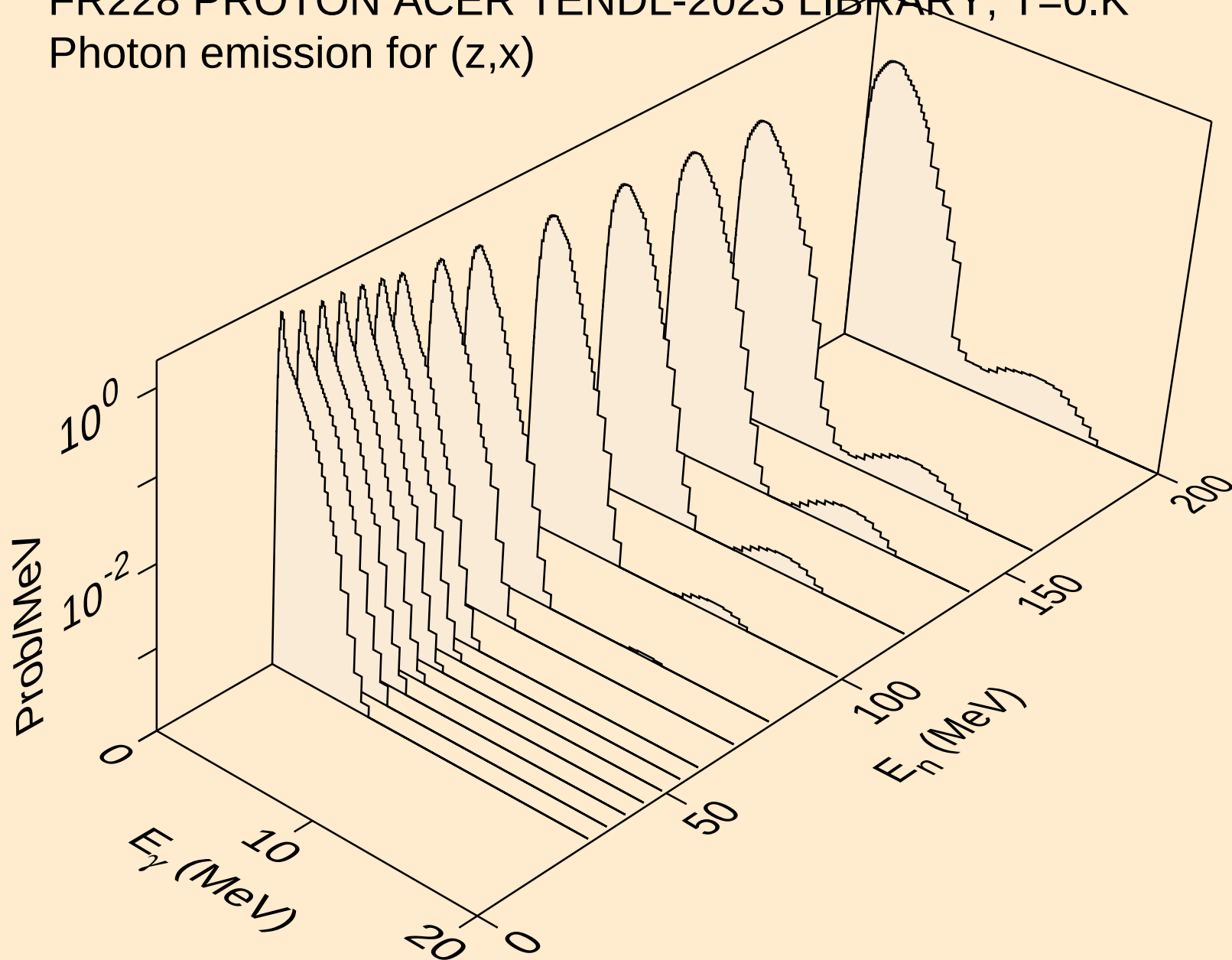


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (z,n)

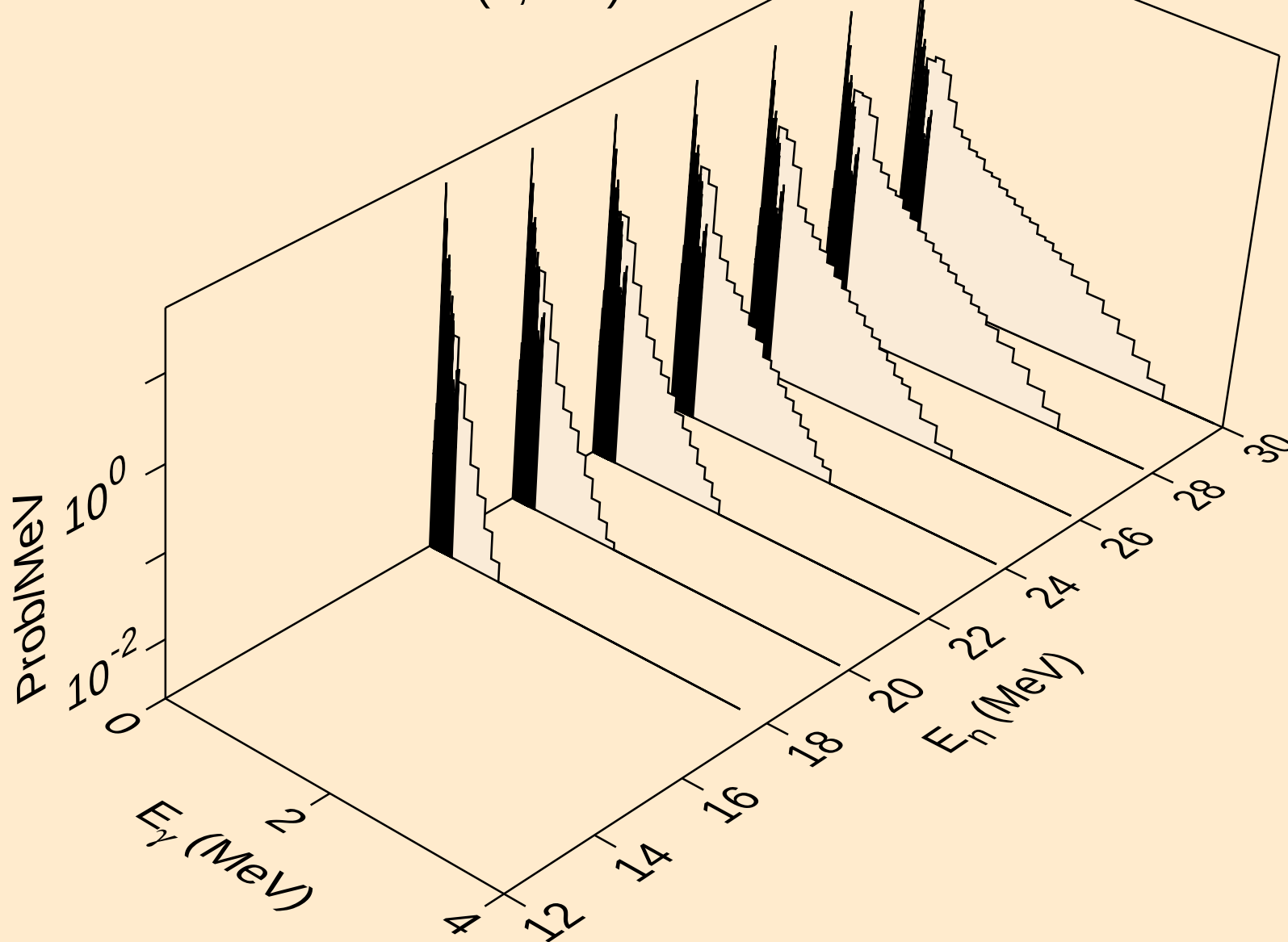


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$

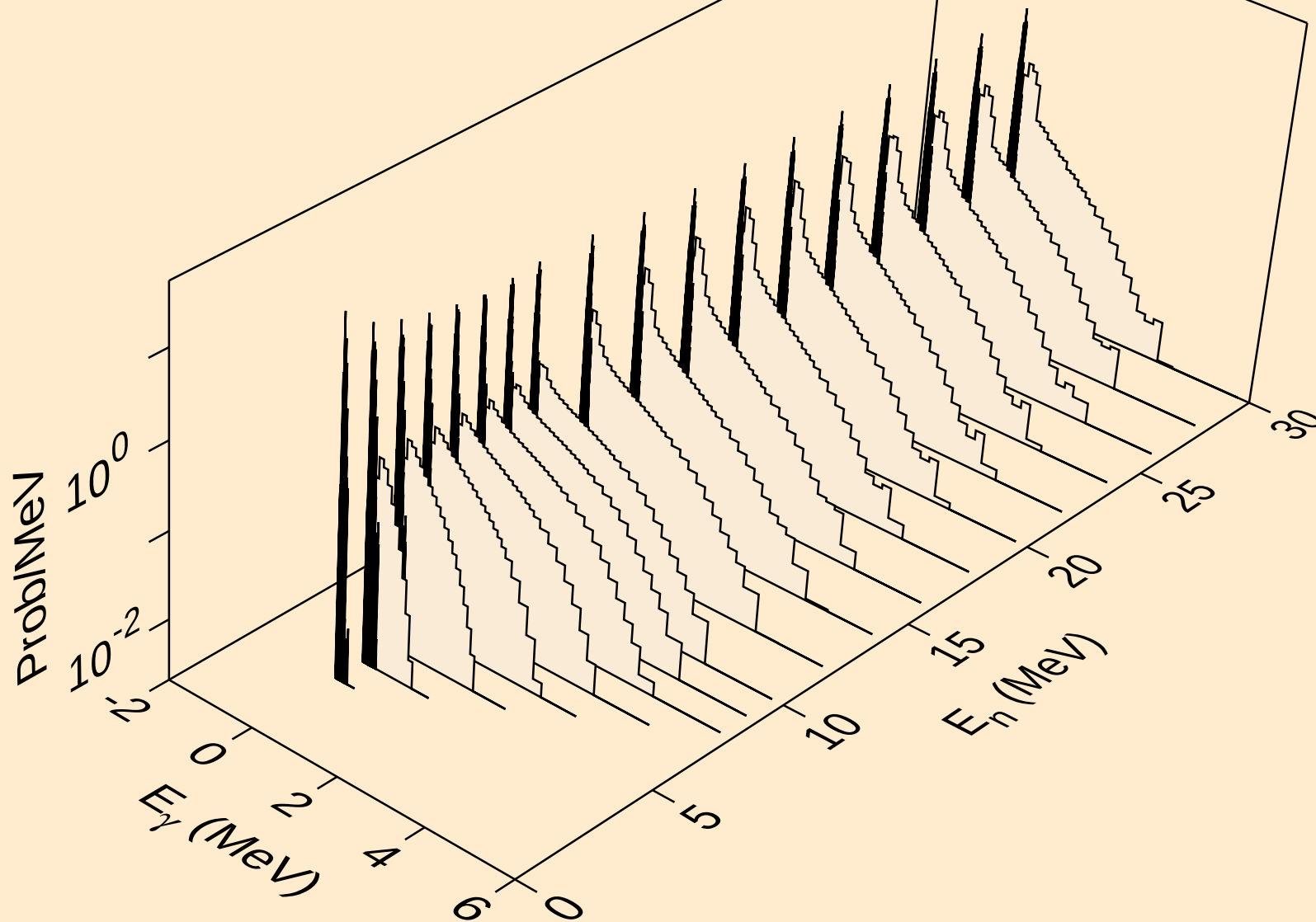
Photon emission for (z,x)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

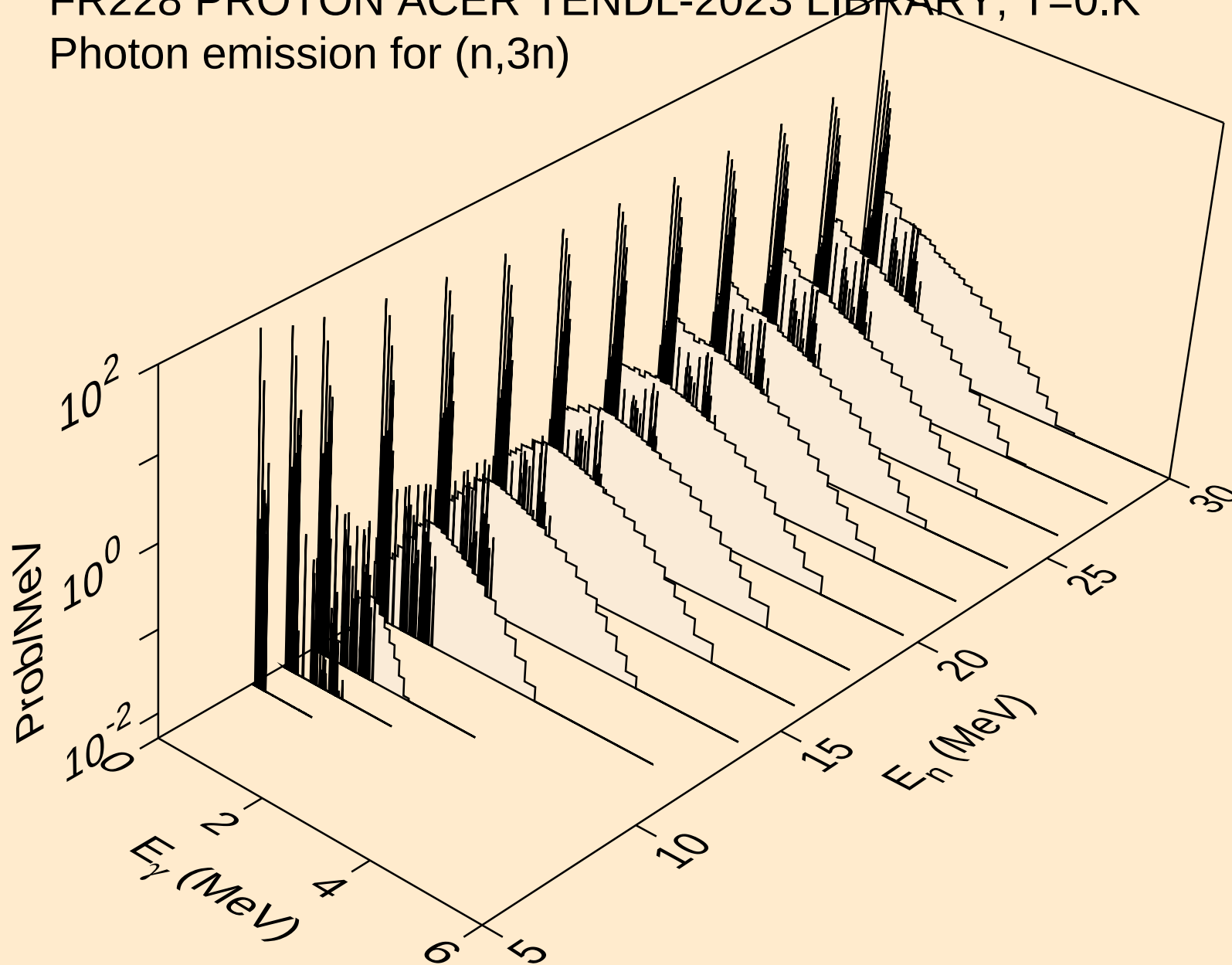


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2n)



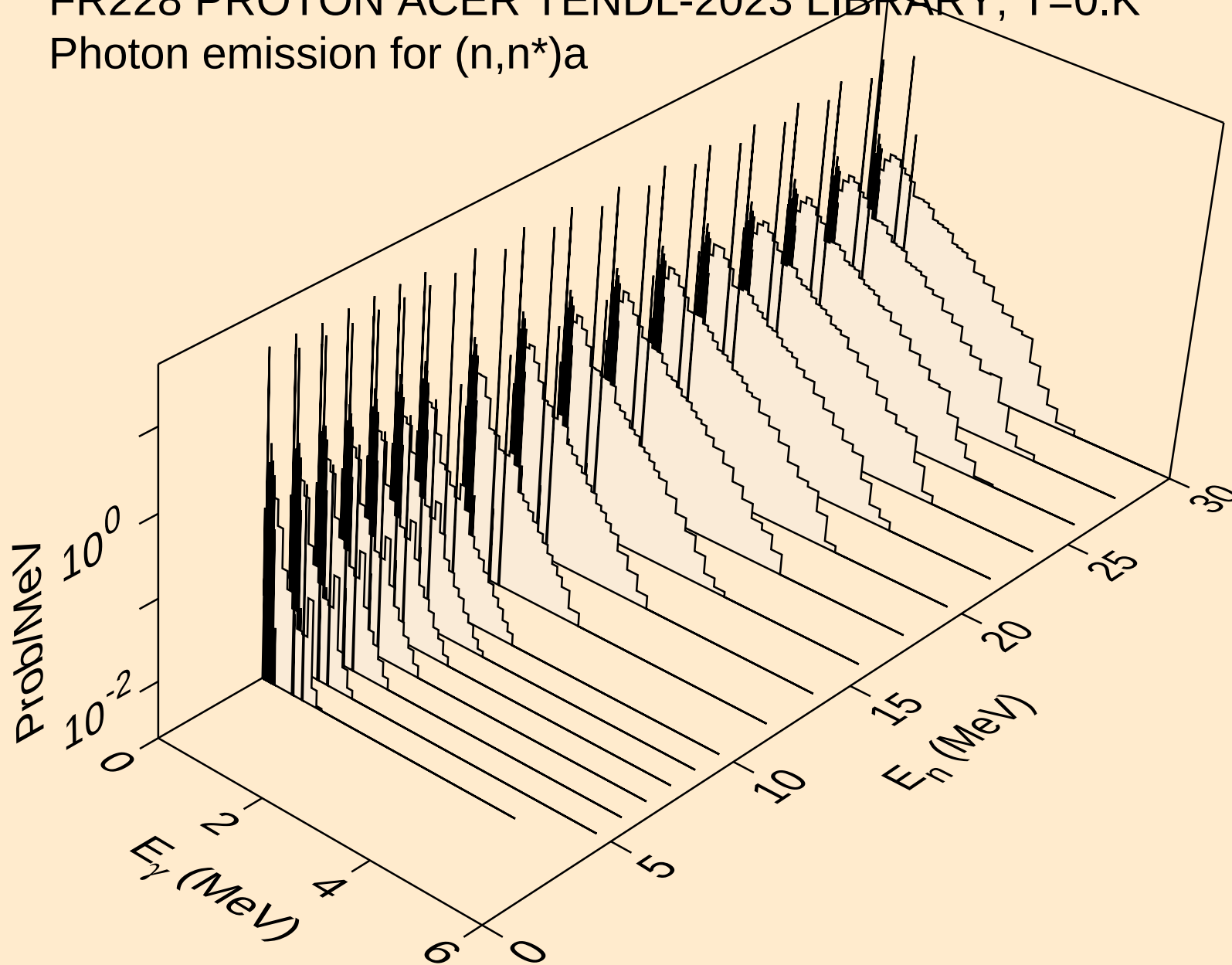


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,3n)



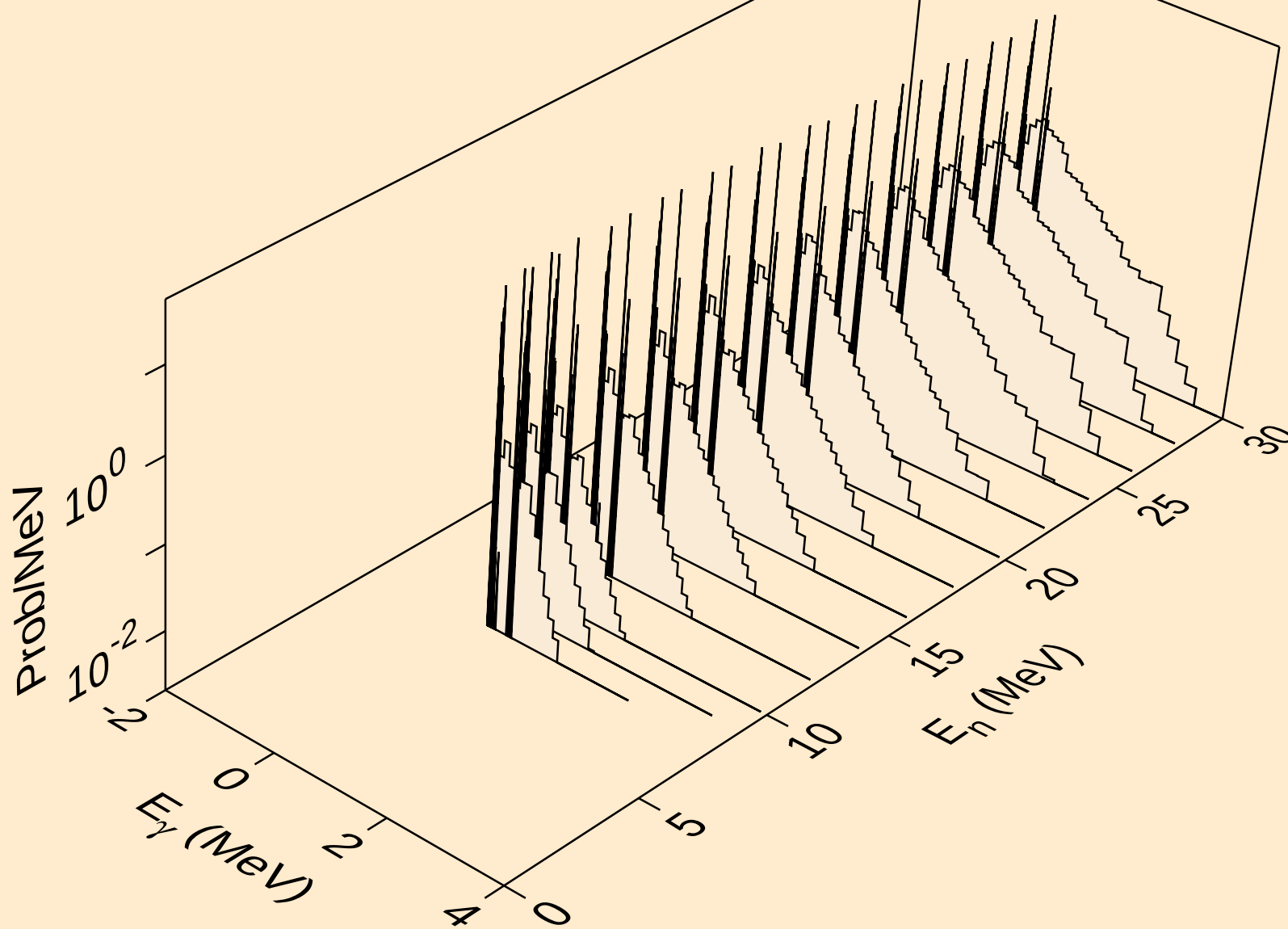
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)a



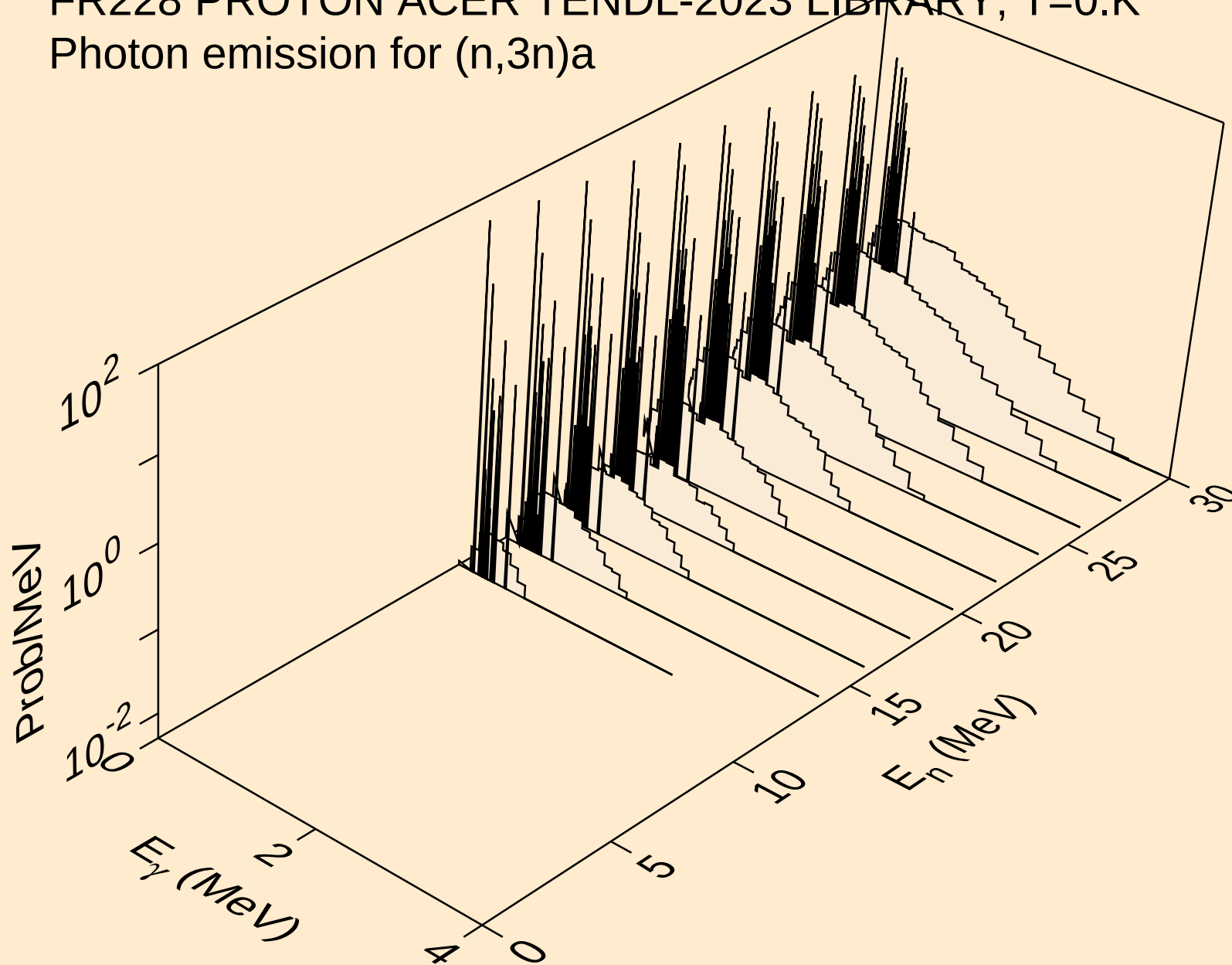
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

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



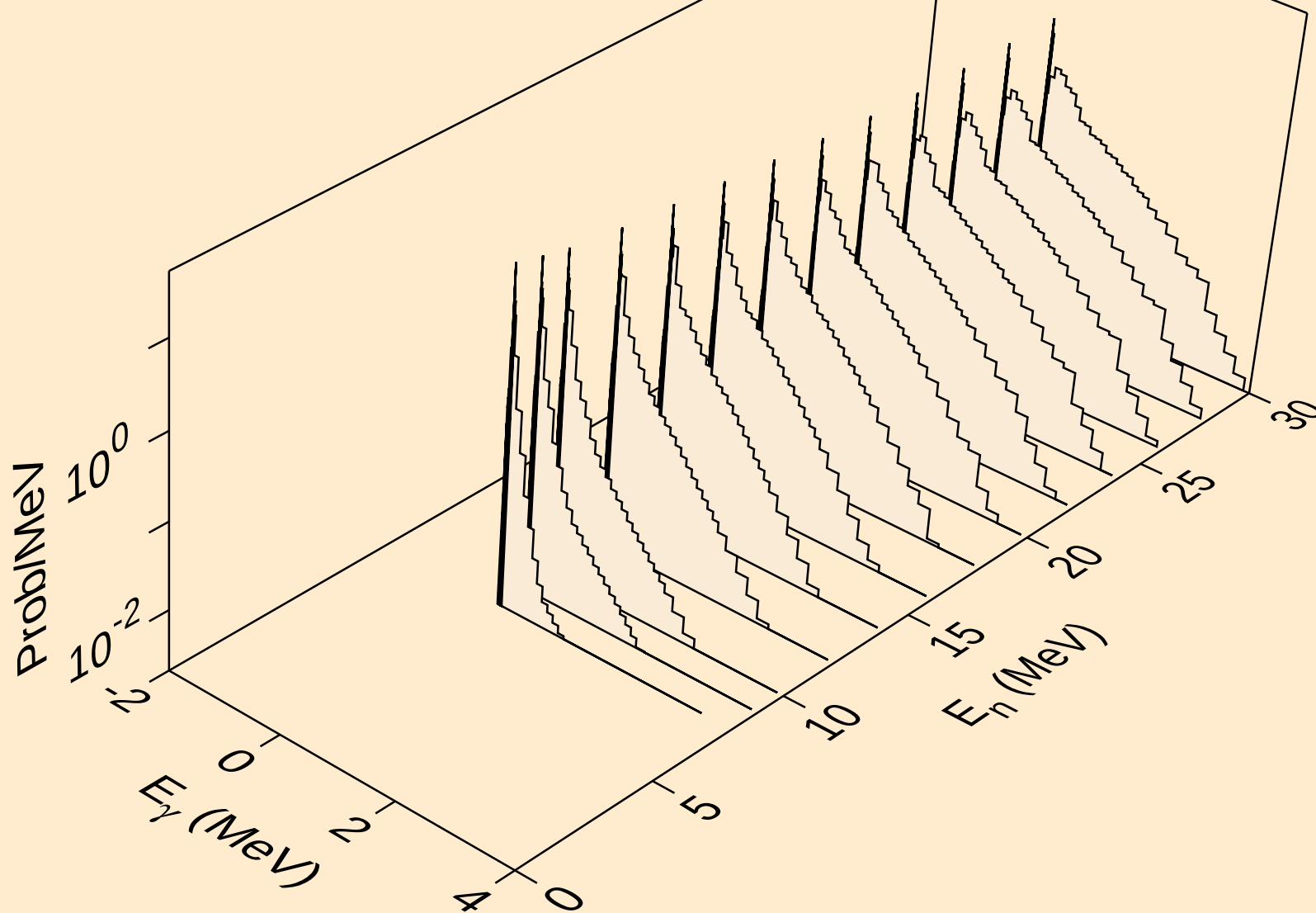
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,3n) $\alpha$



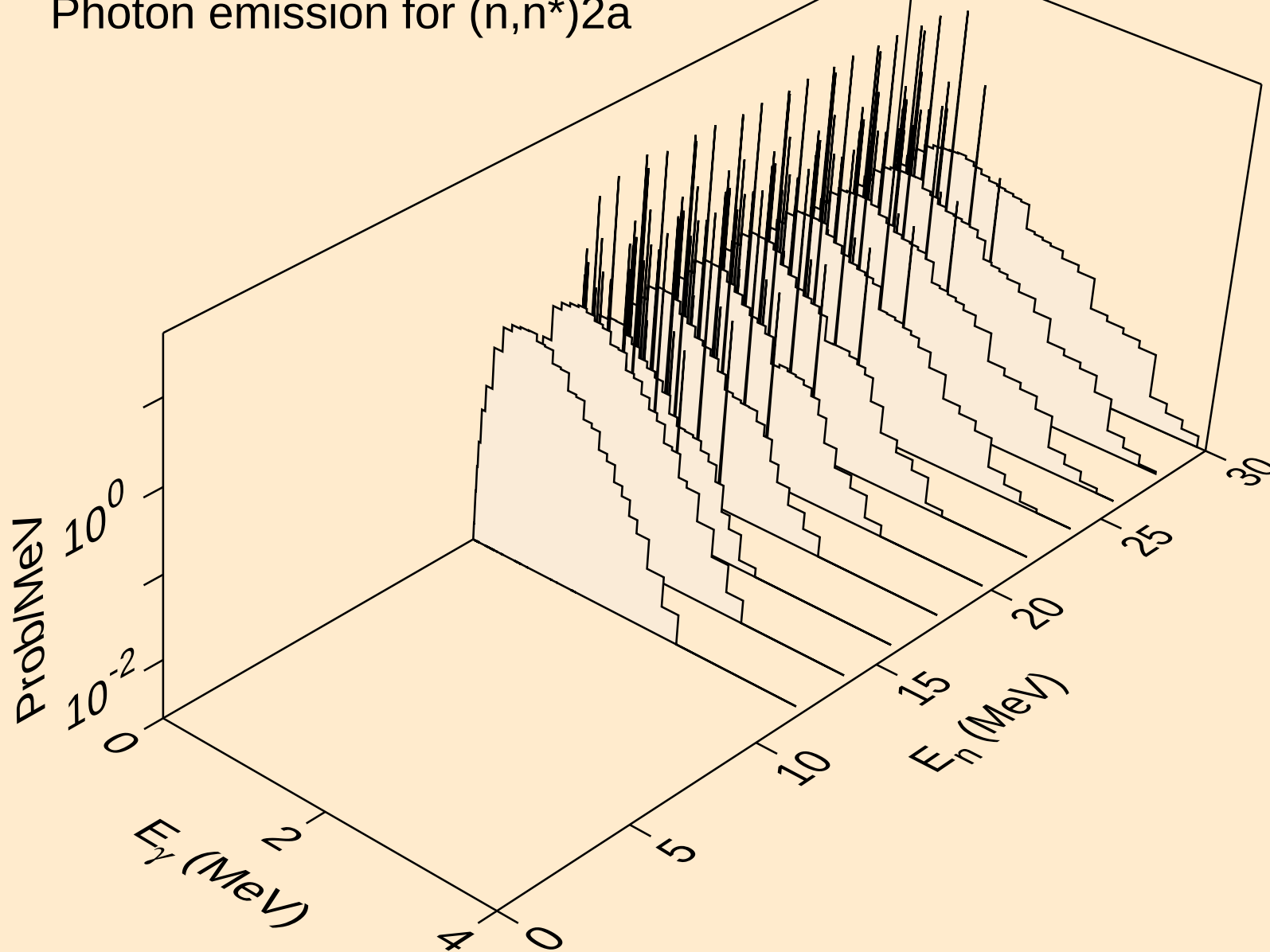
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)p



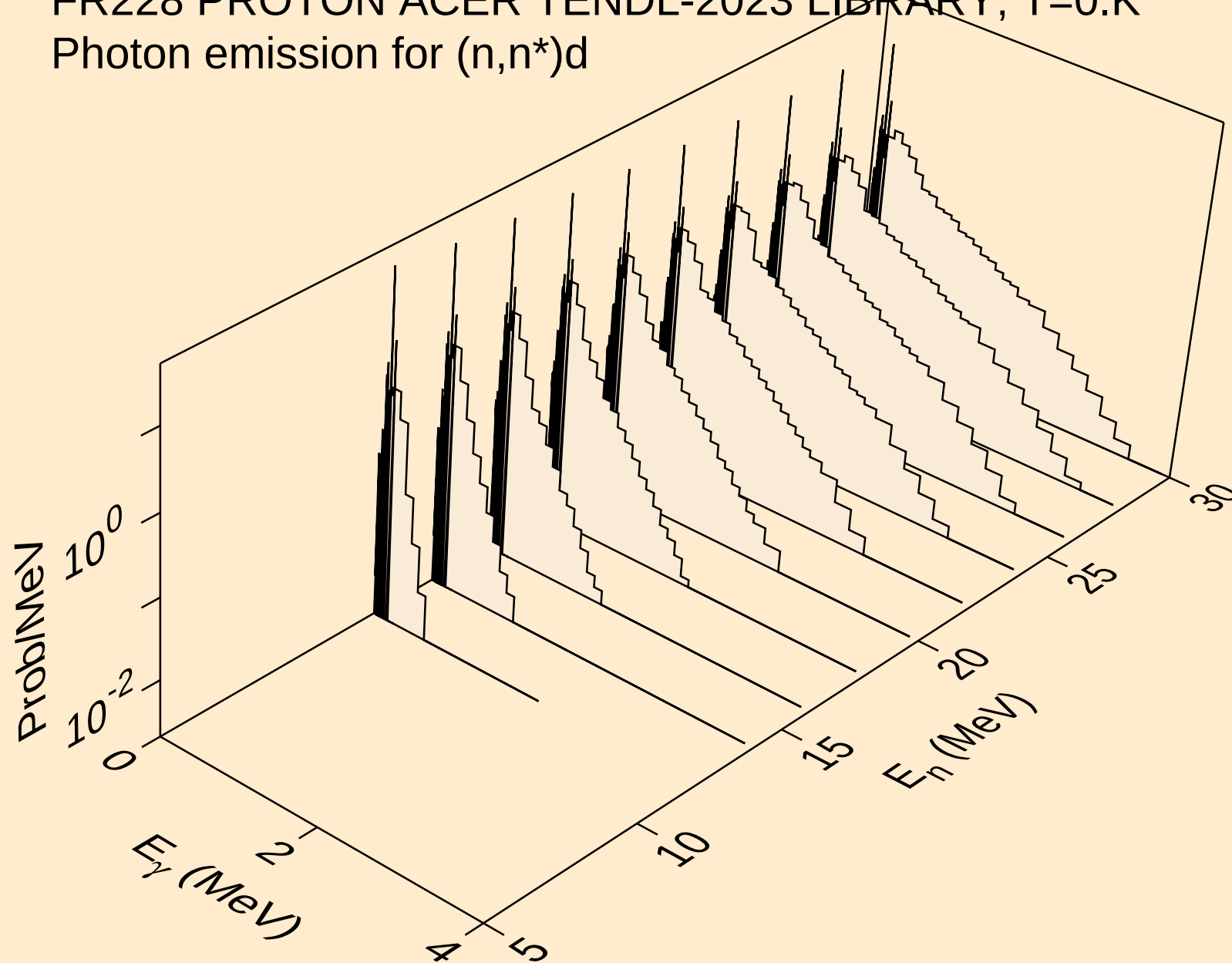
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

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



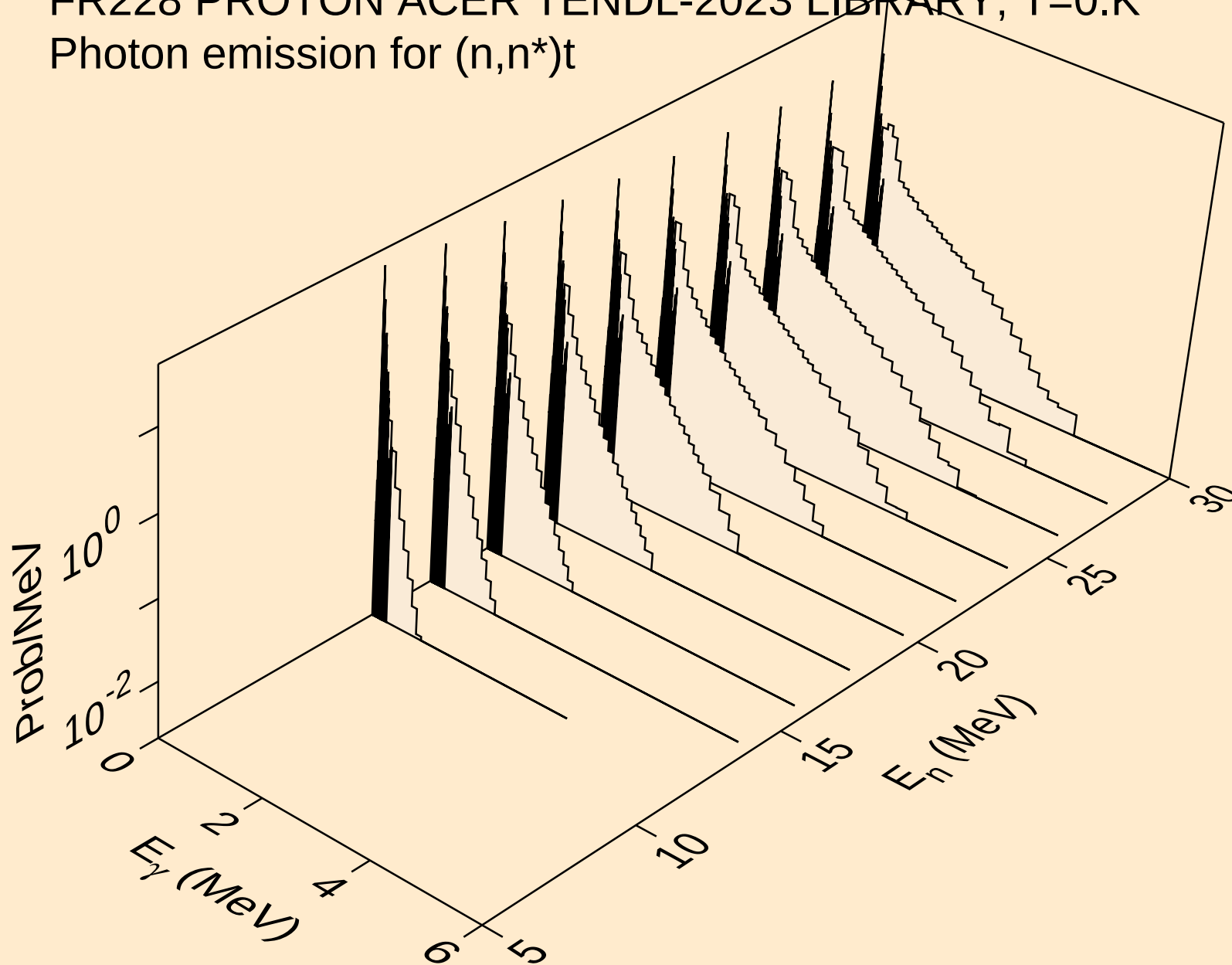
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$

Photon emission for  $(n,n^*)d$



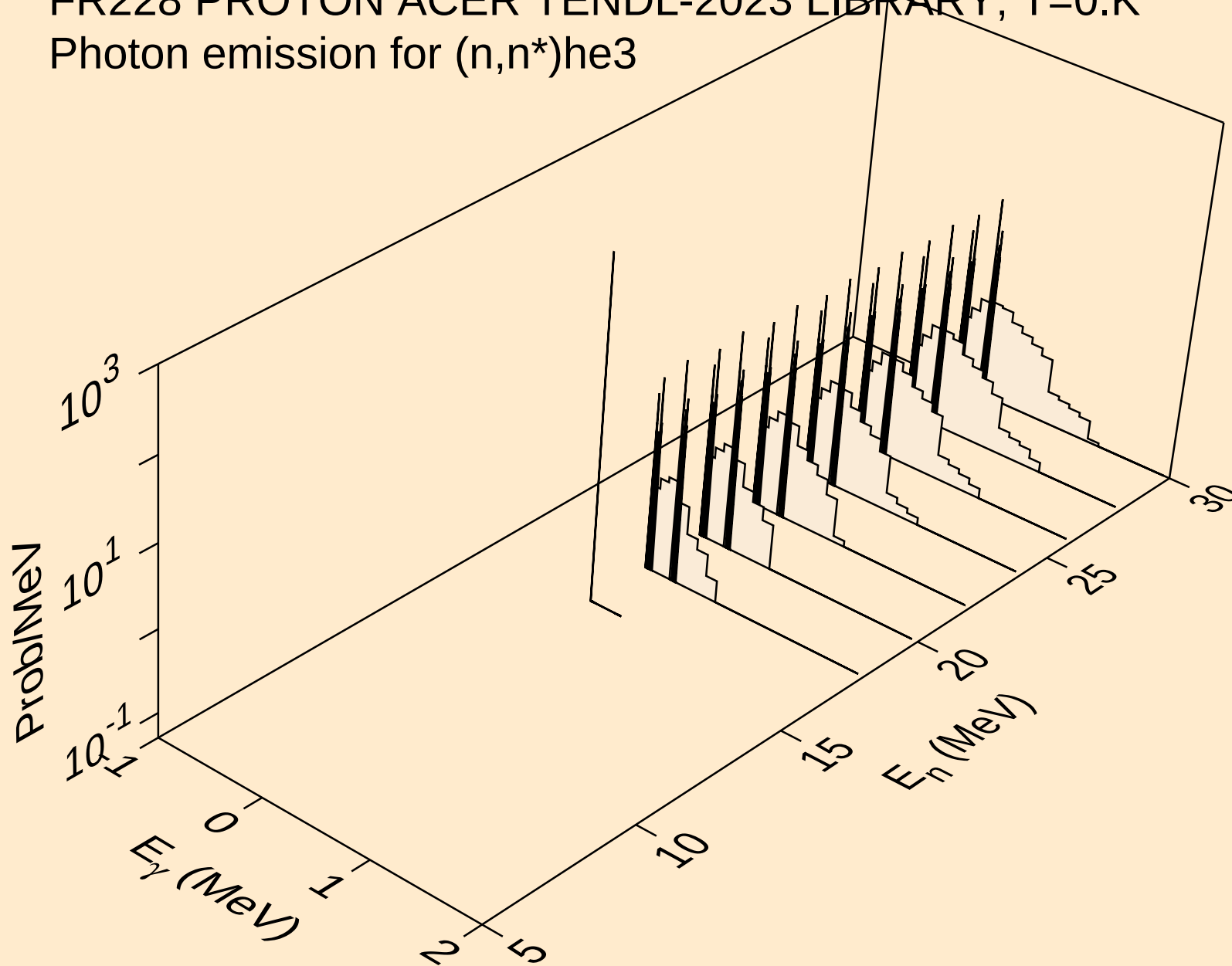
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)t

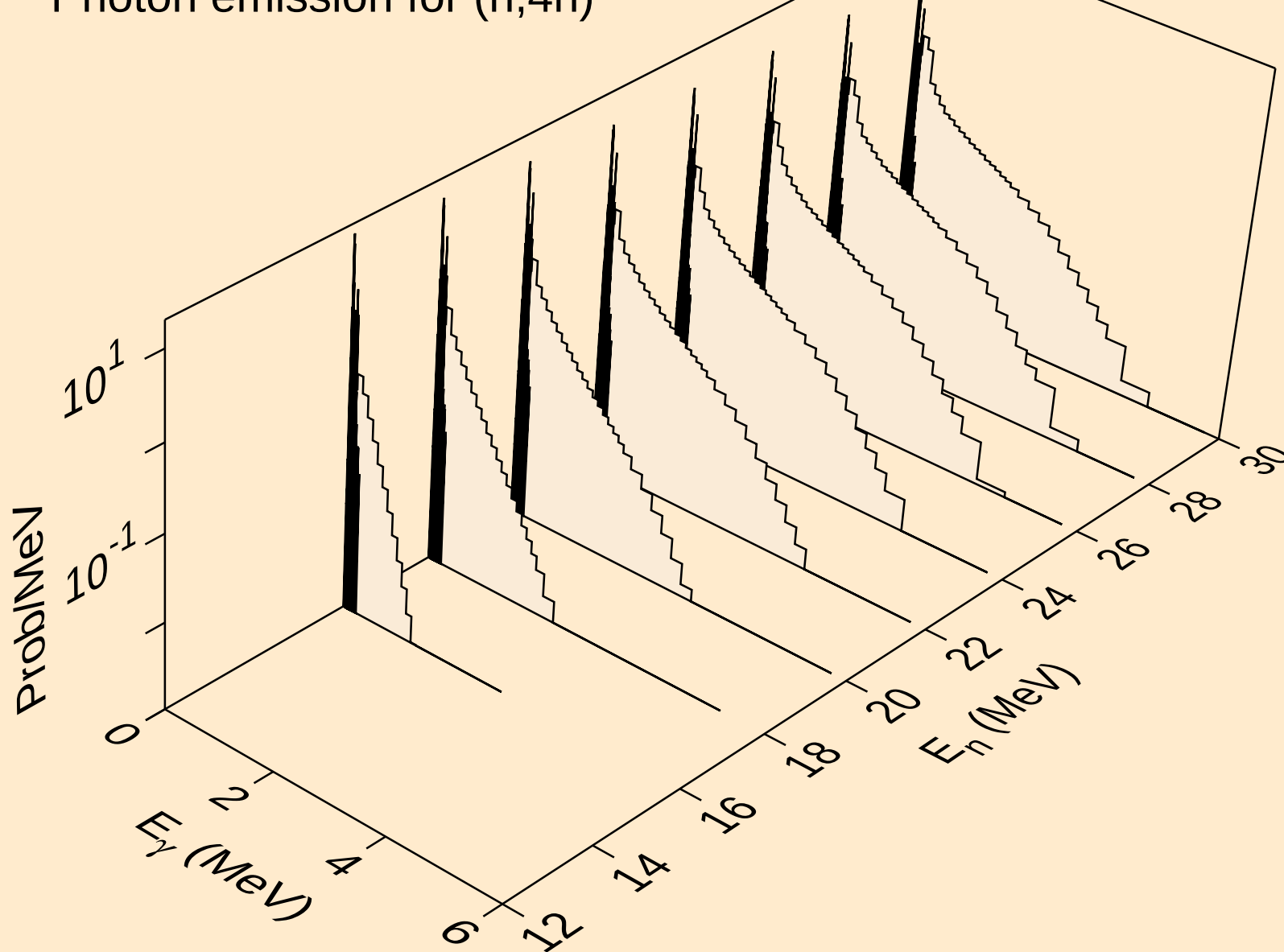




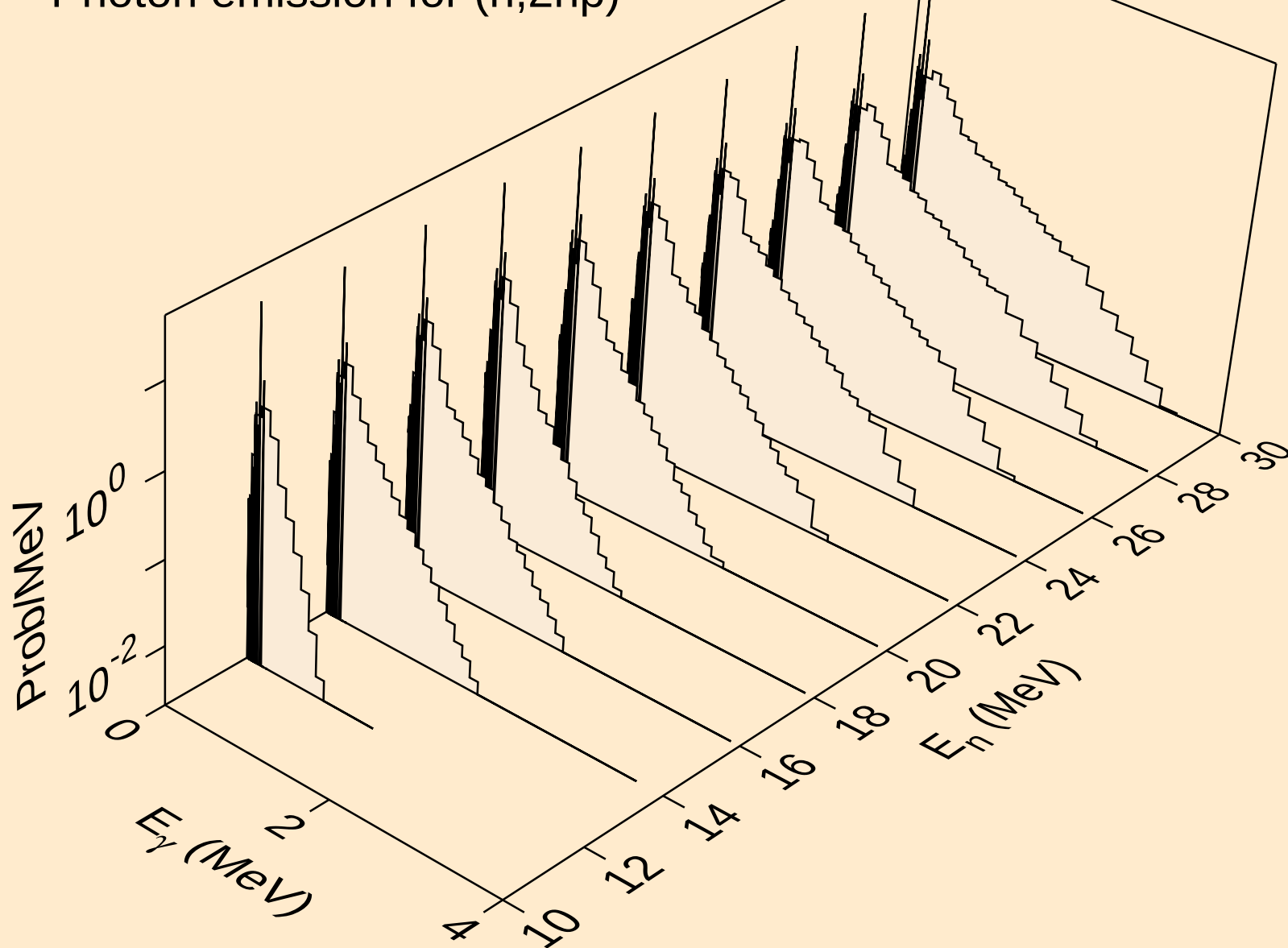
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



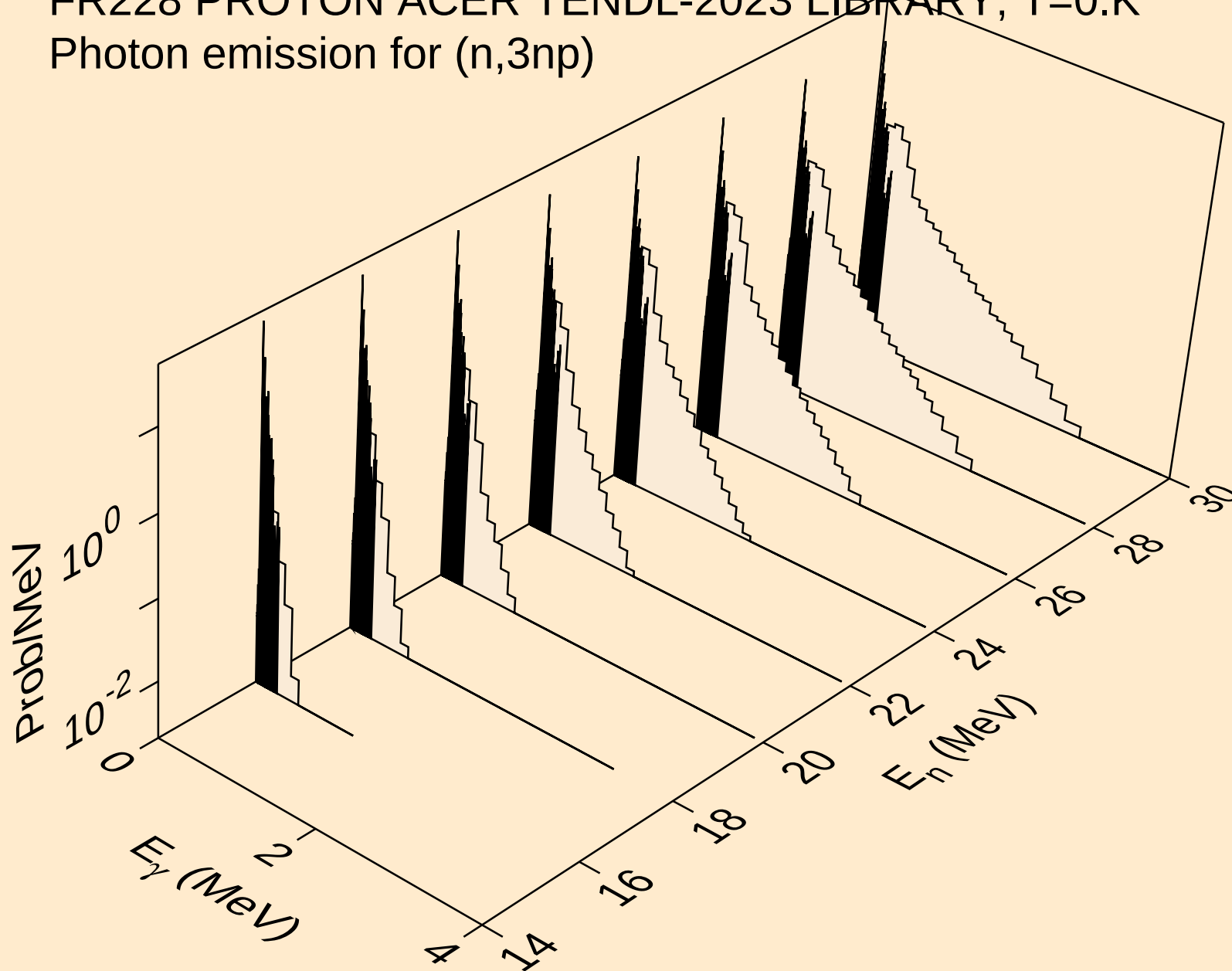
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,4n)



FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2np)

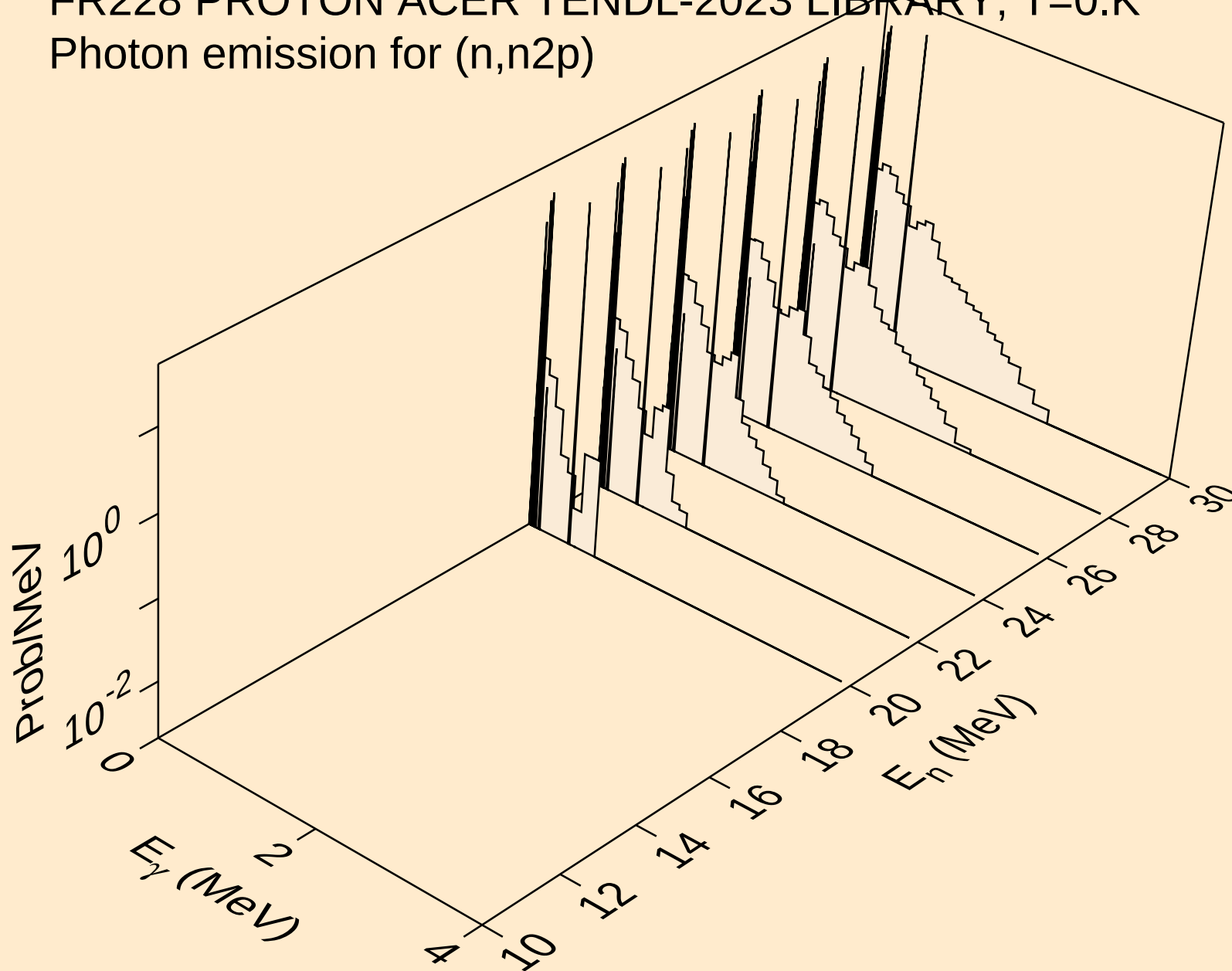


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,3np)

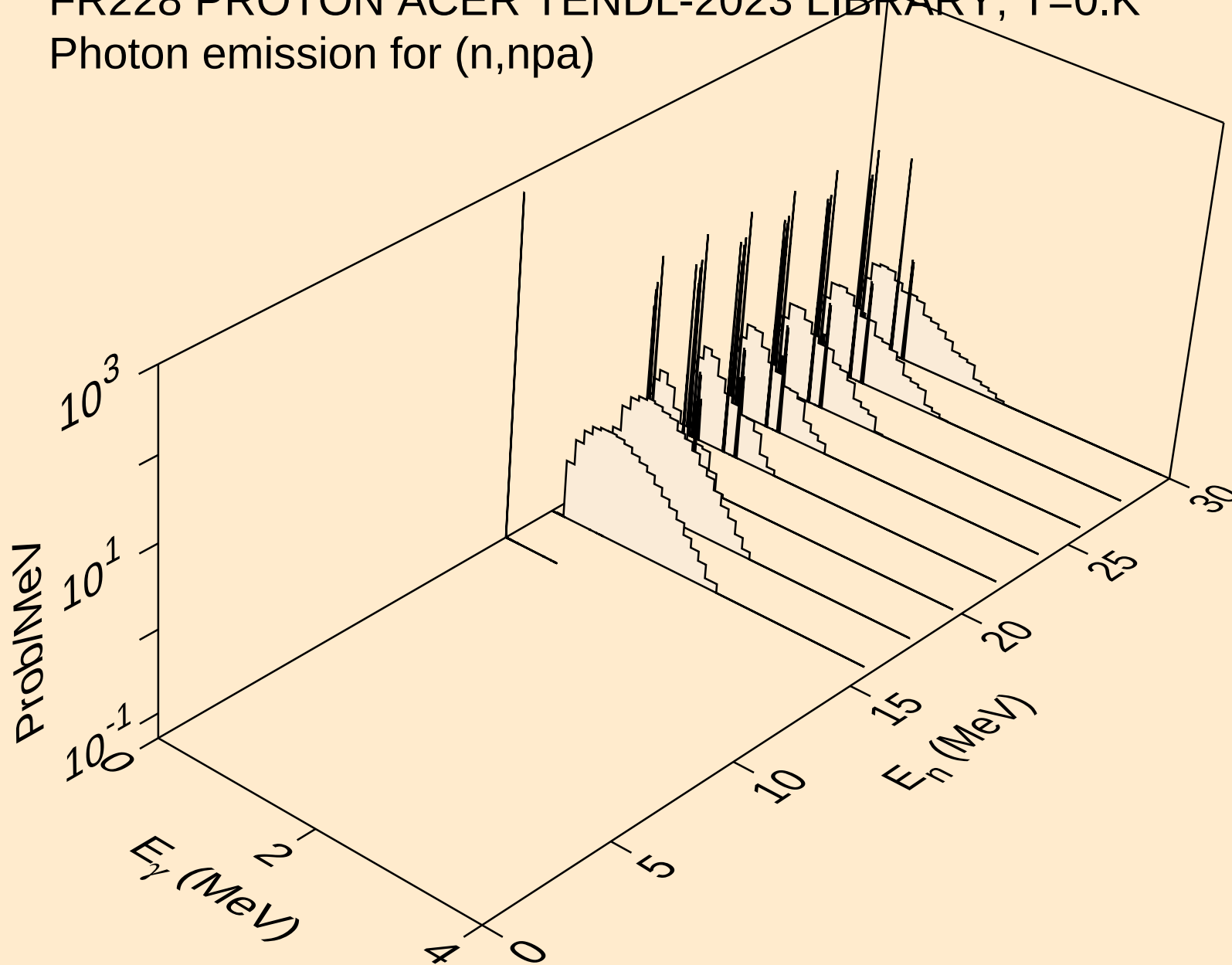


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

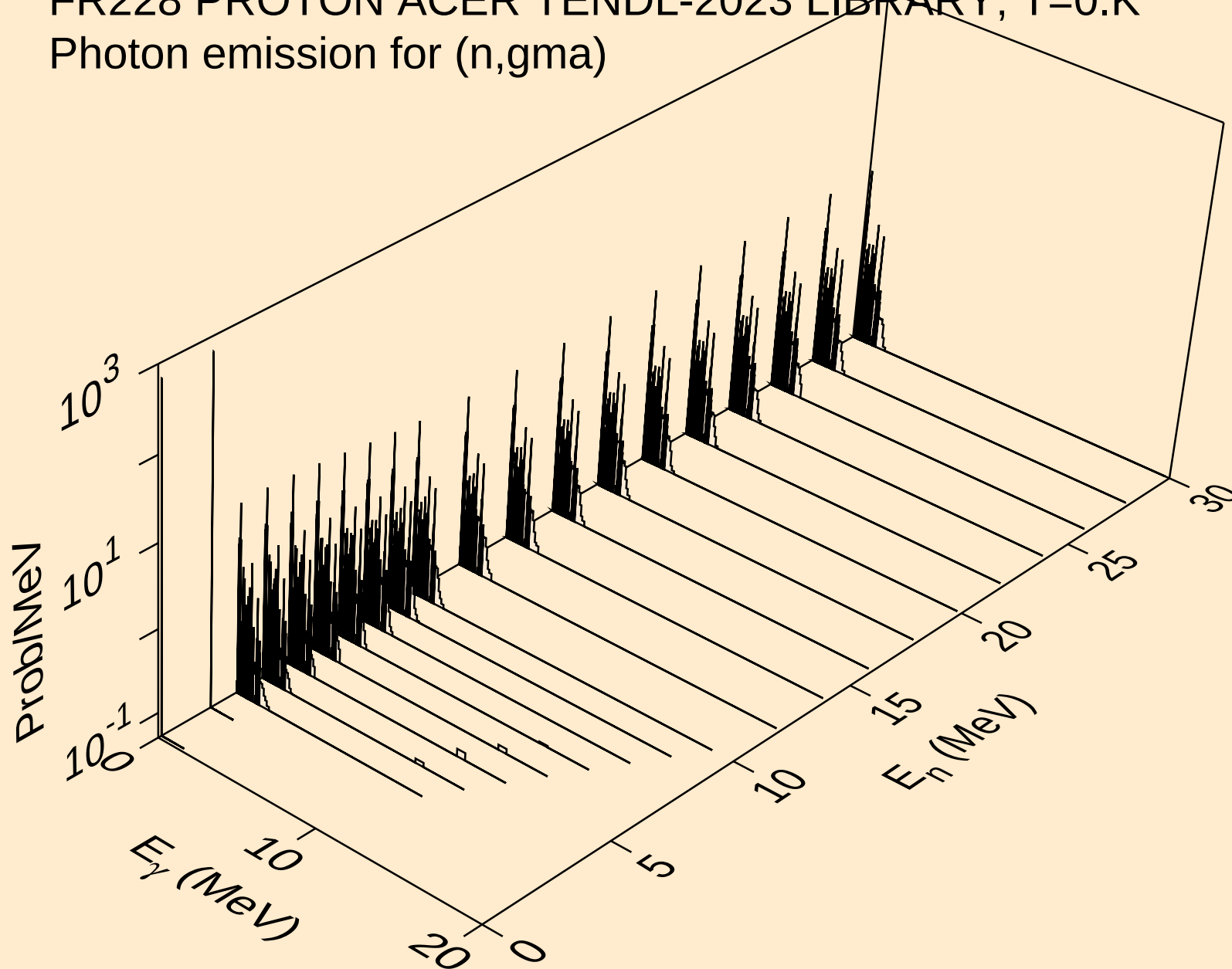
Photon emission for (n,n2p)



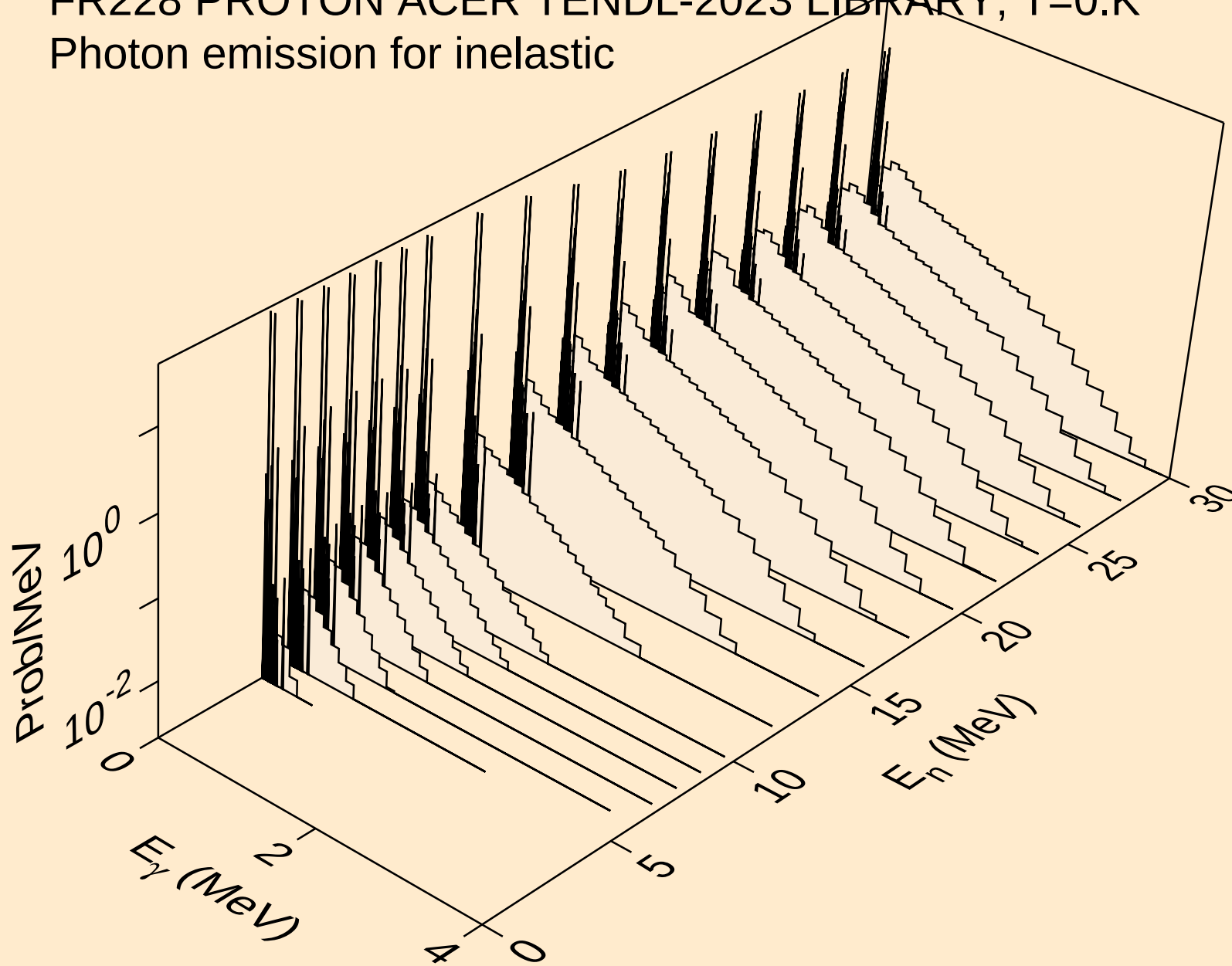
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,npa)



FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,gma)

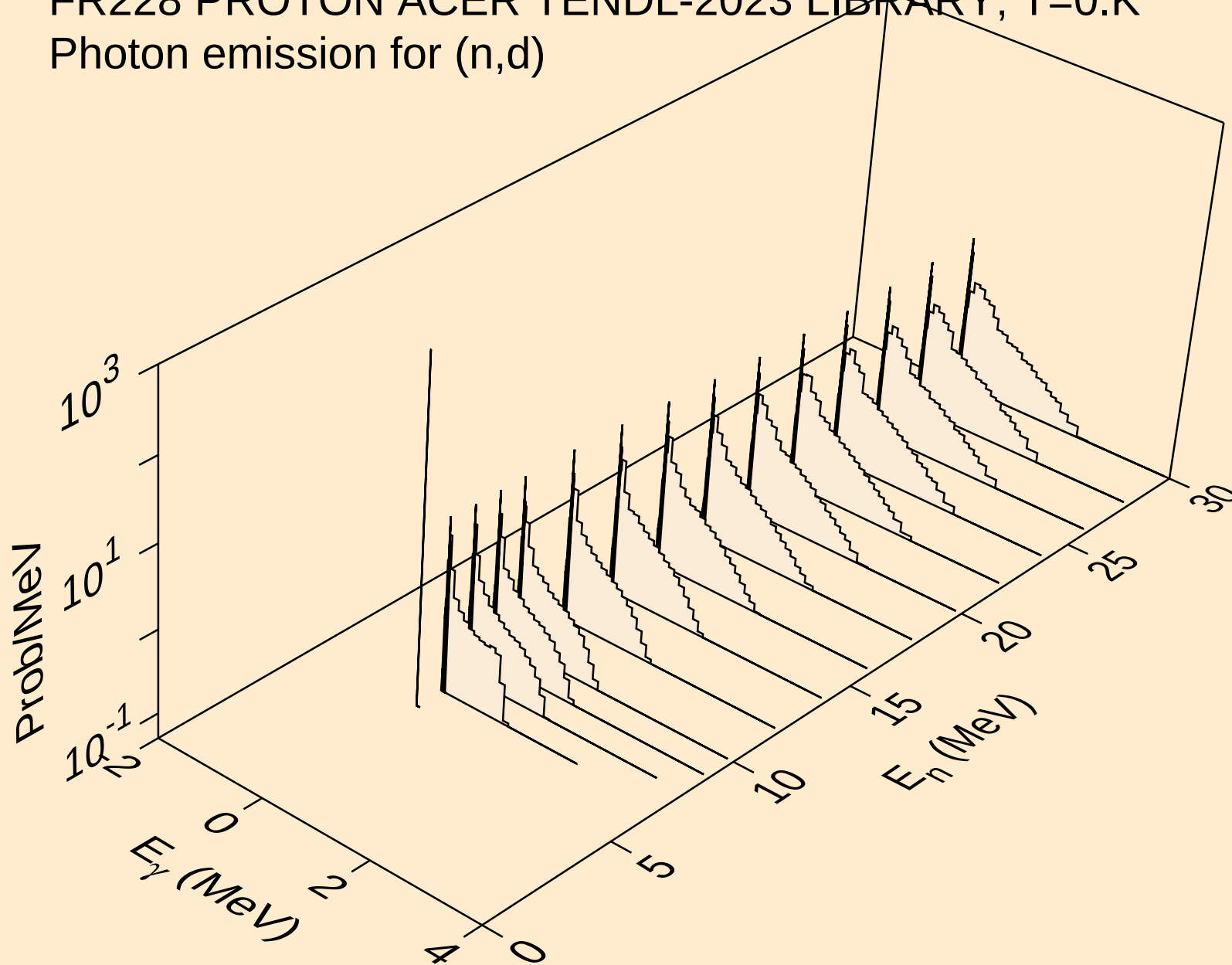


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for inelastic

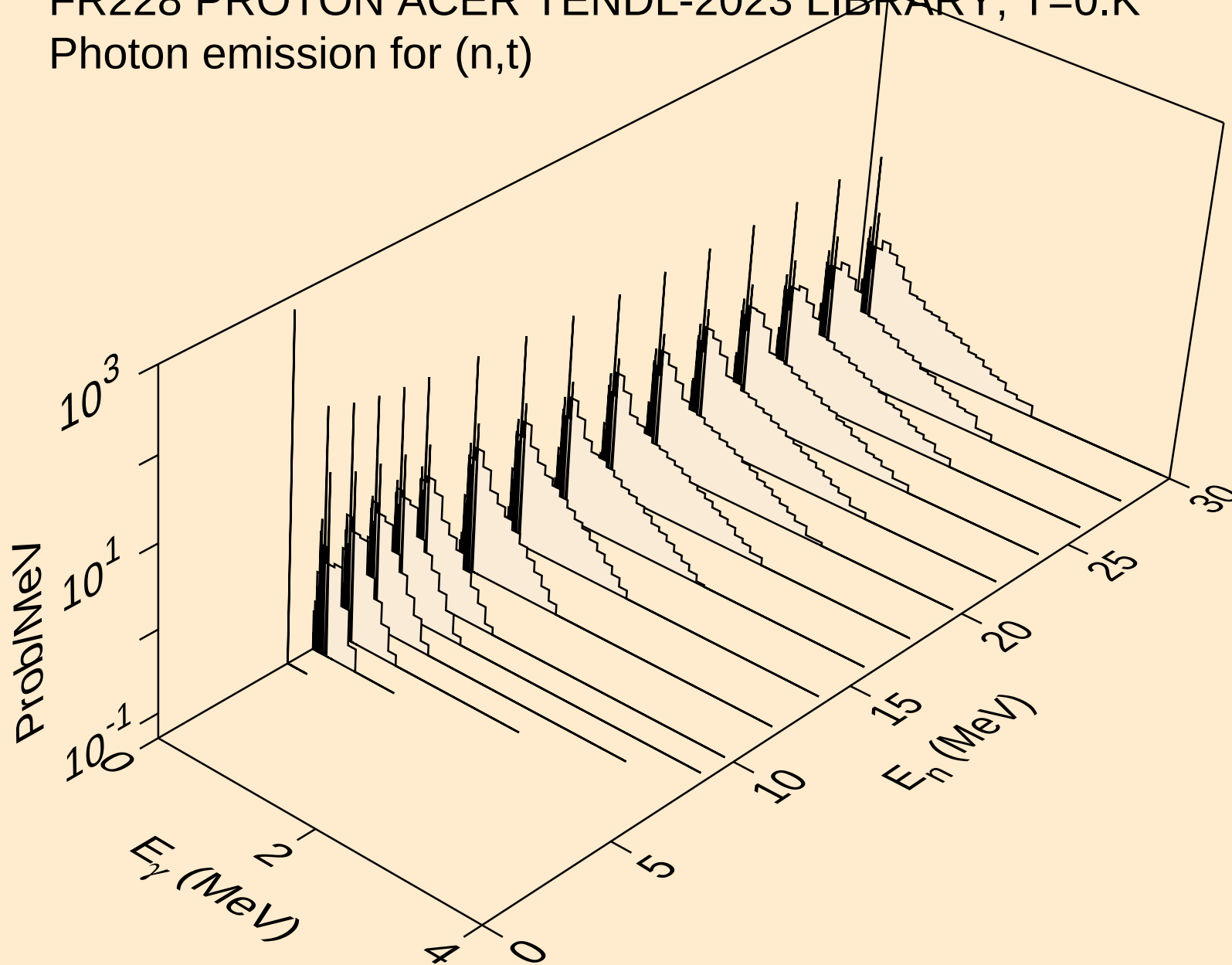




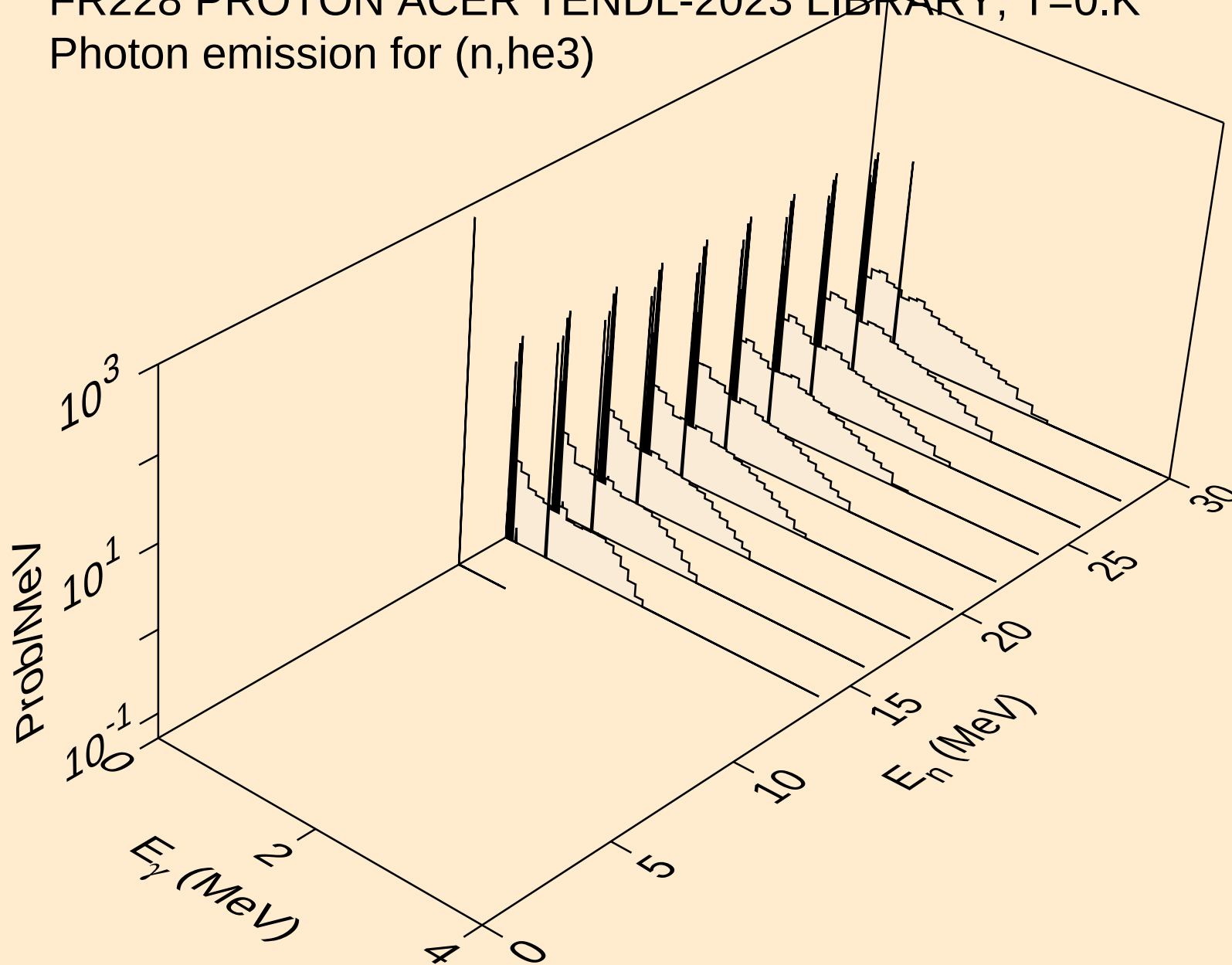
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,d)



FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,t)

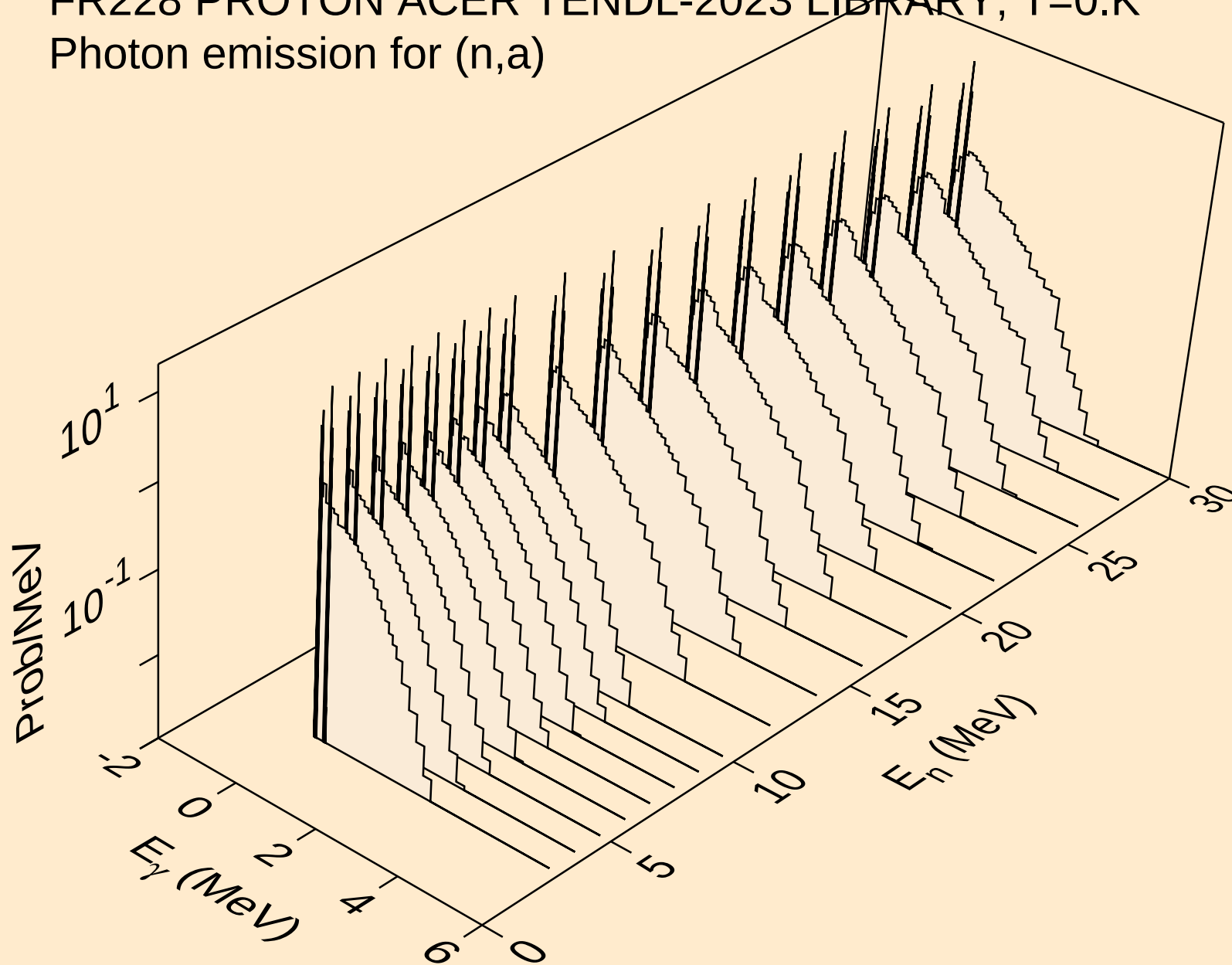


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,he3)

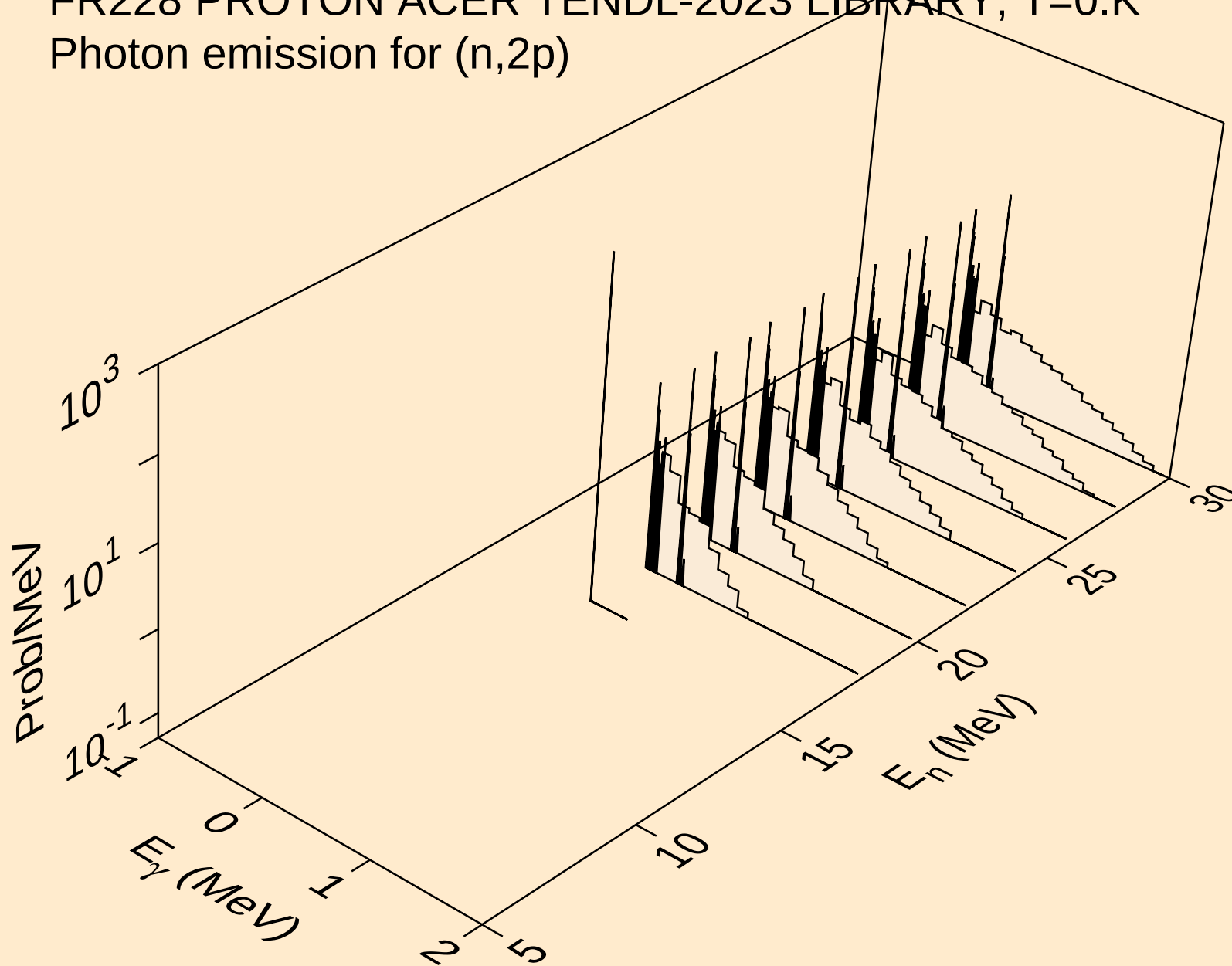


# FR228 PROTON ACER TENDL-2023 LIBRARY; $T=0.K$

Photon emission for (n,a)

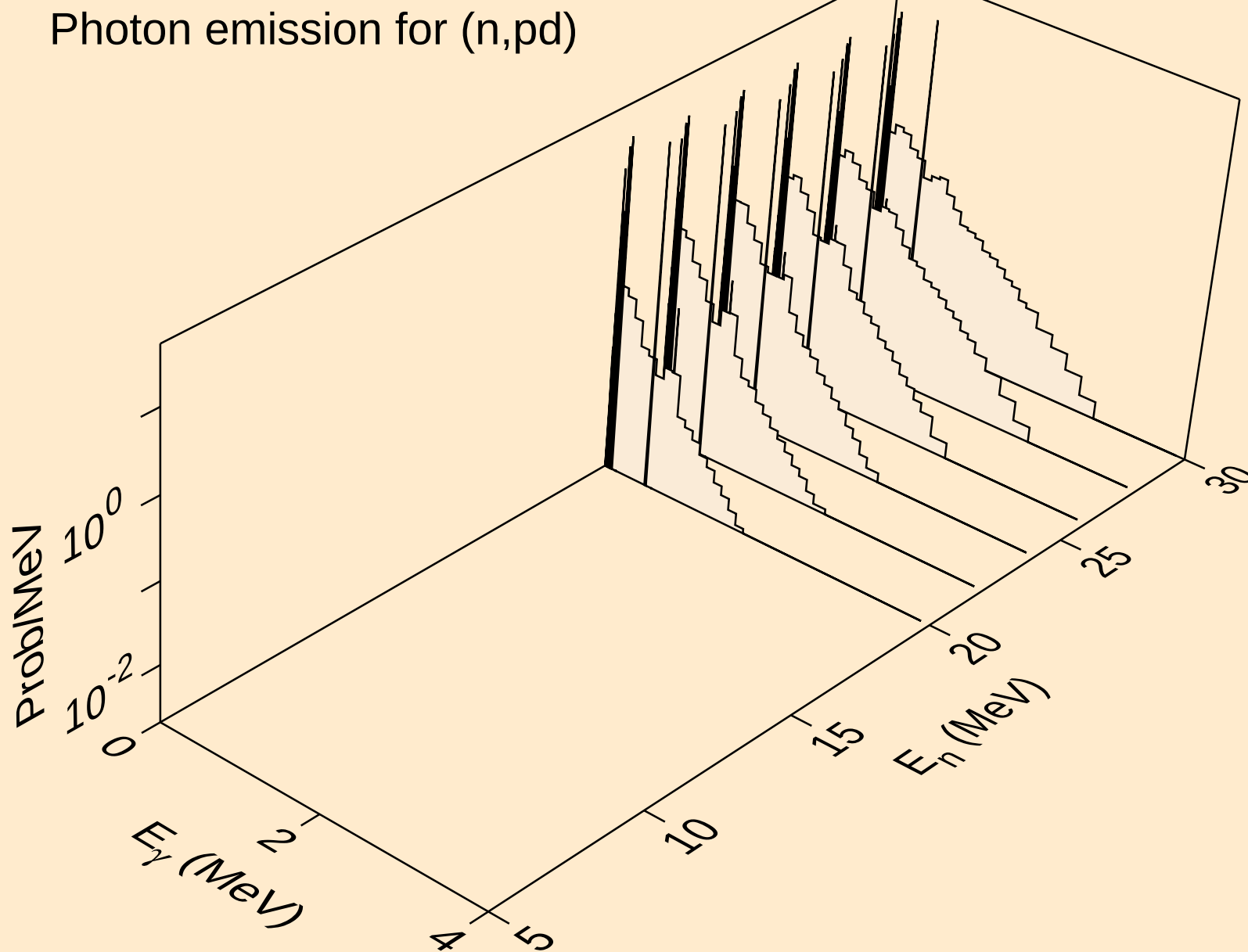


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
Photon emission for (n,2p)



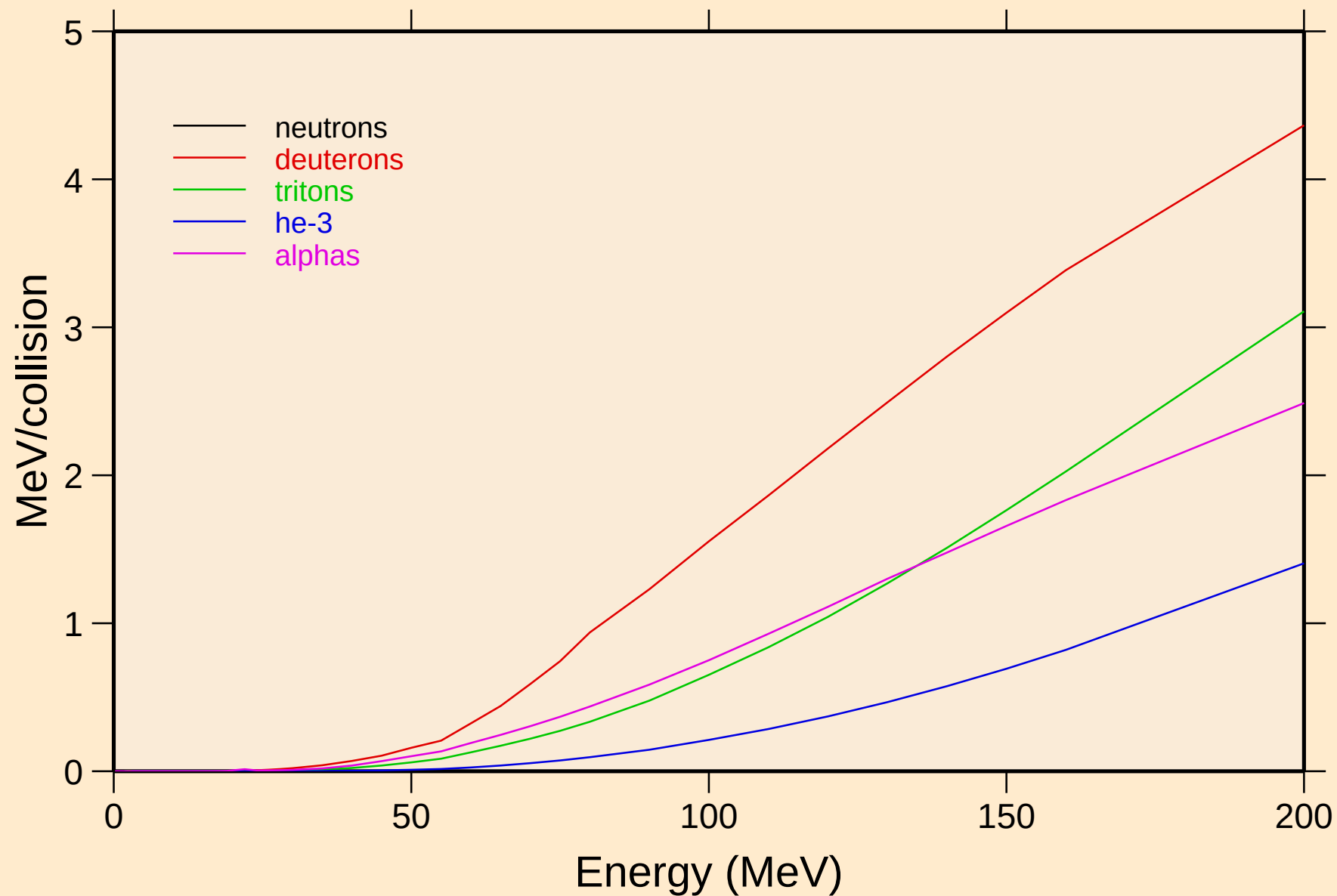
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,pd)



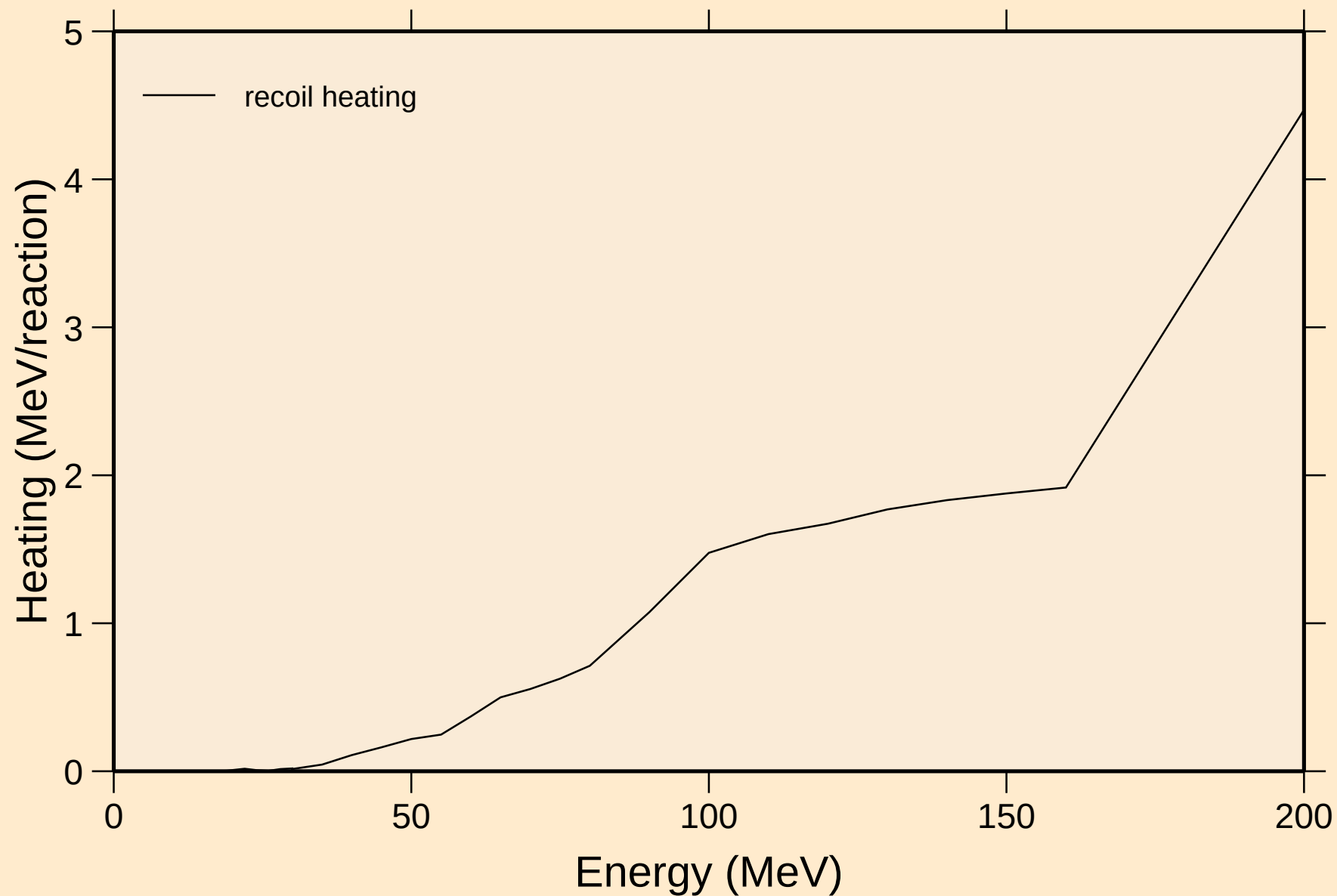
# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

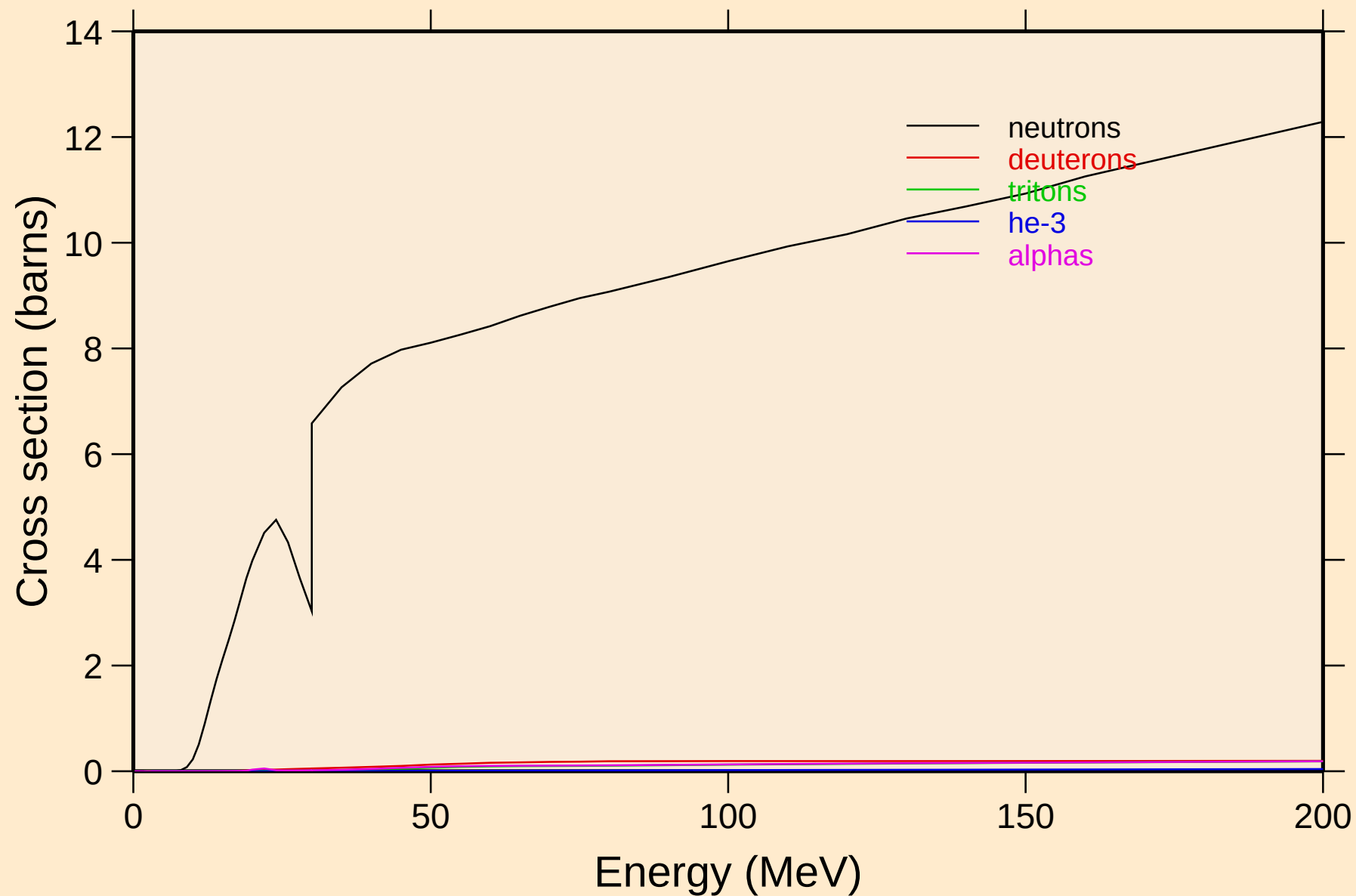
Recoil Heating



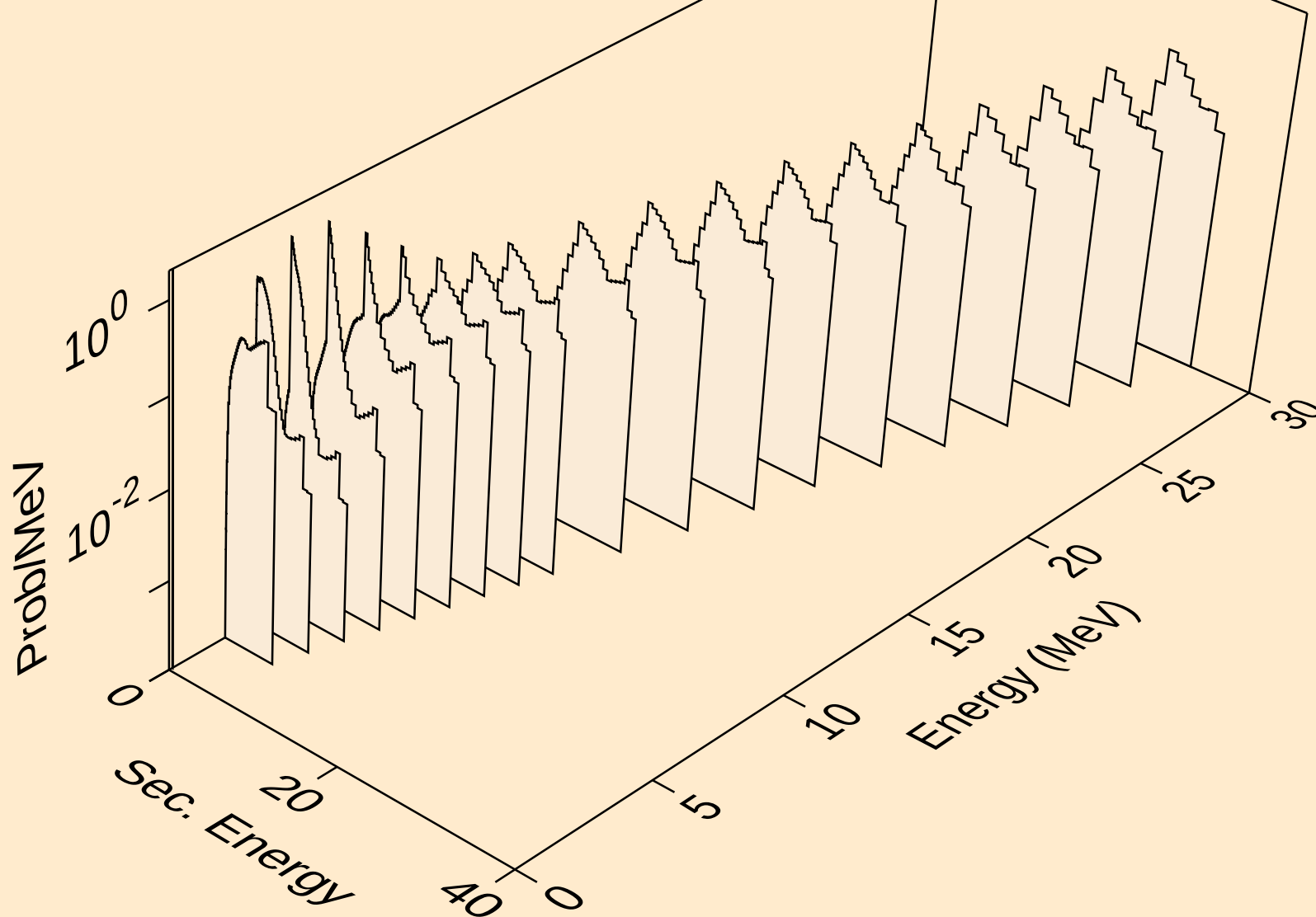


# FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K

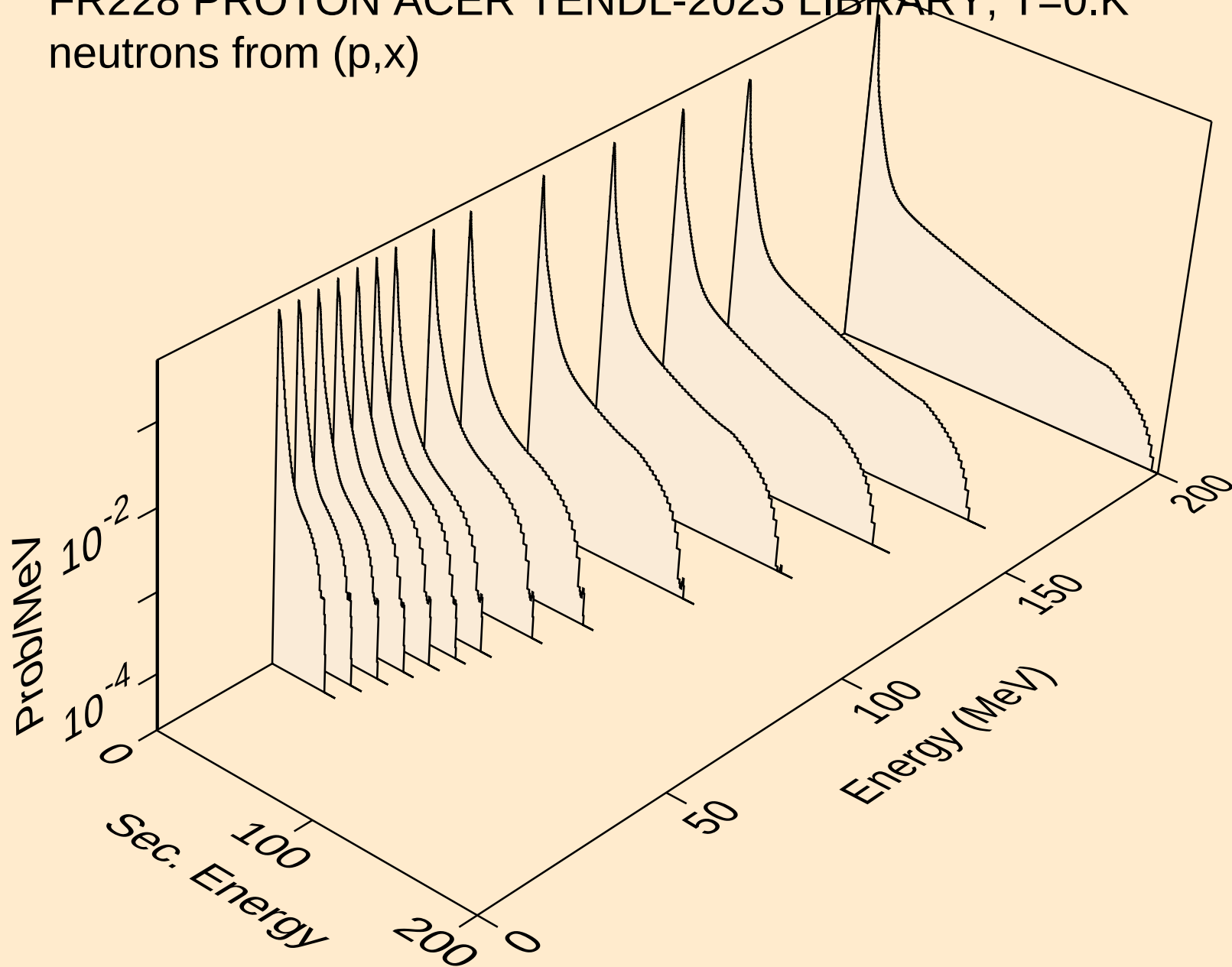
## Particle production cross sections



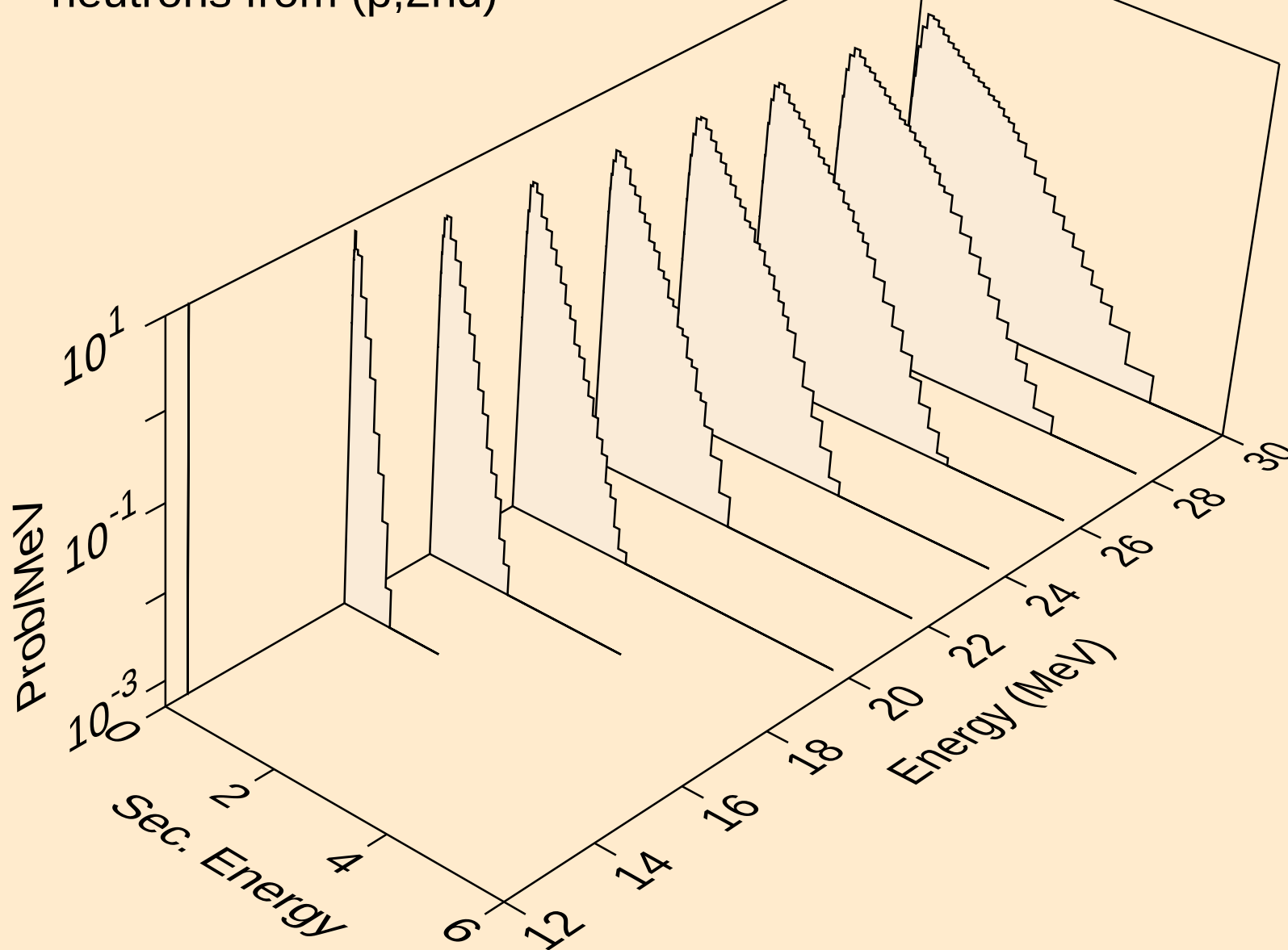
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



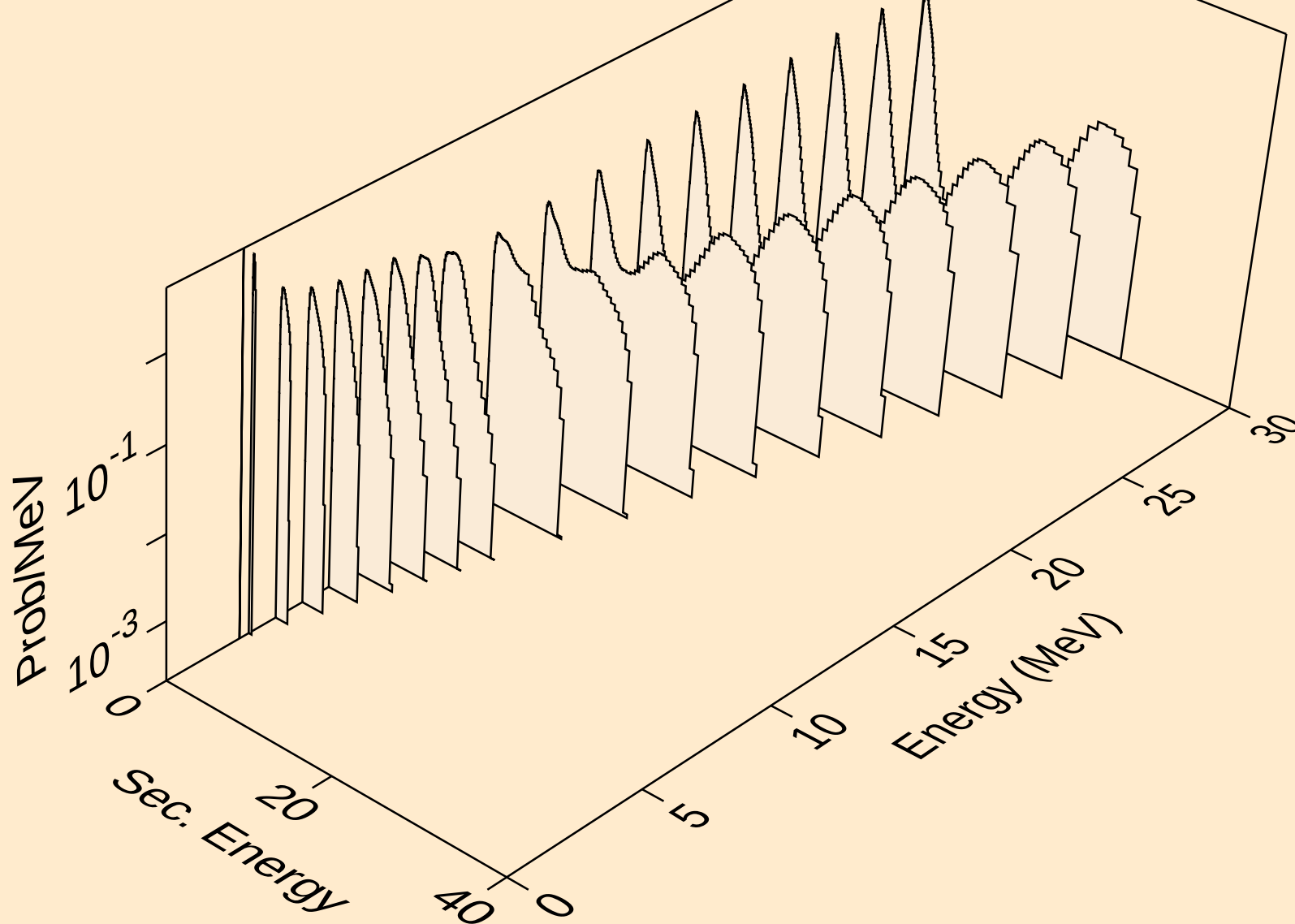
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



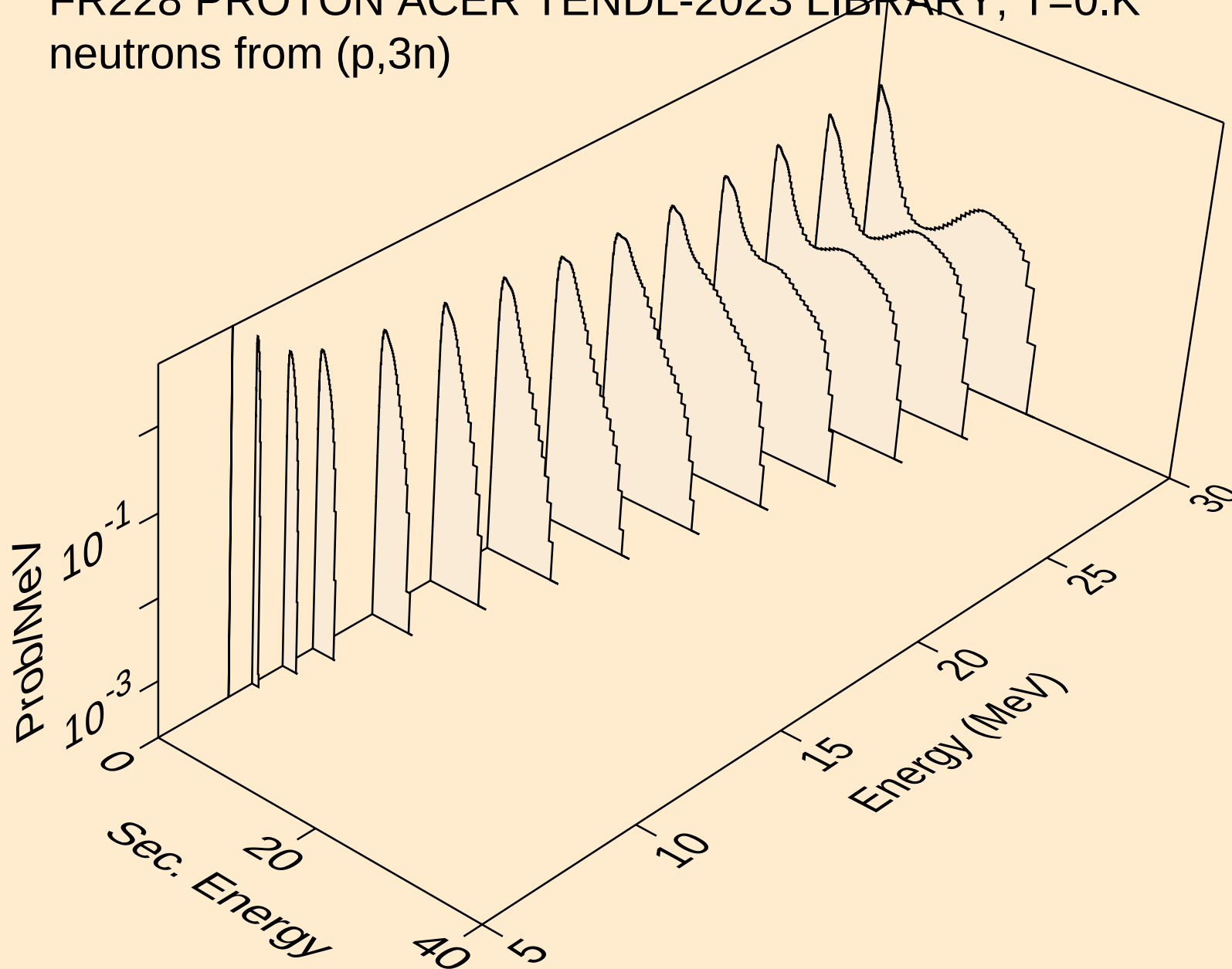
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)



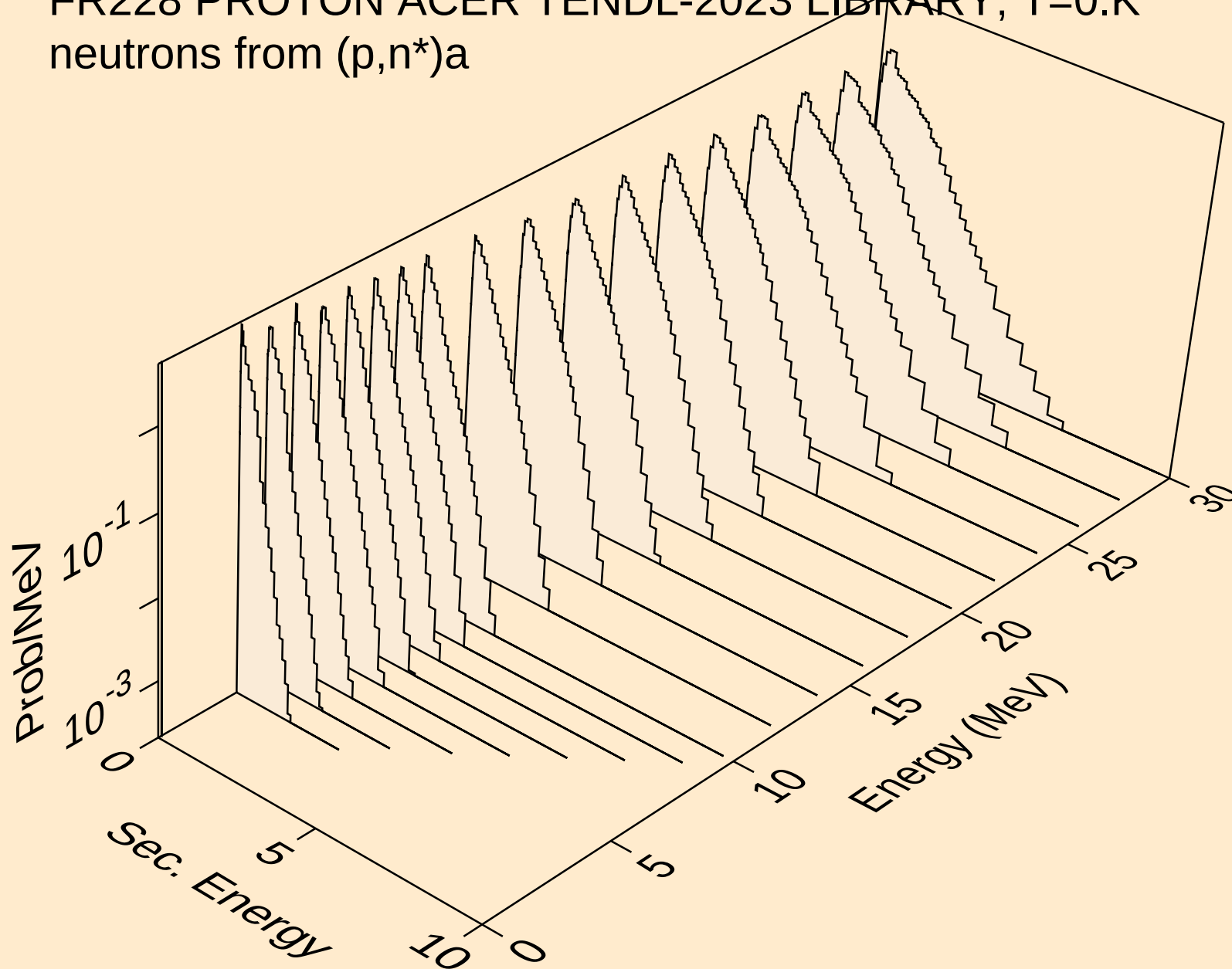
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



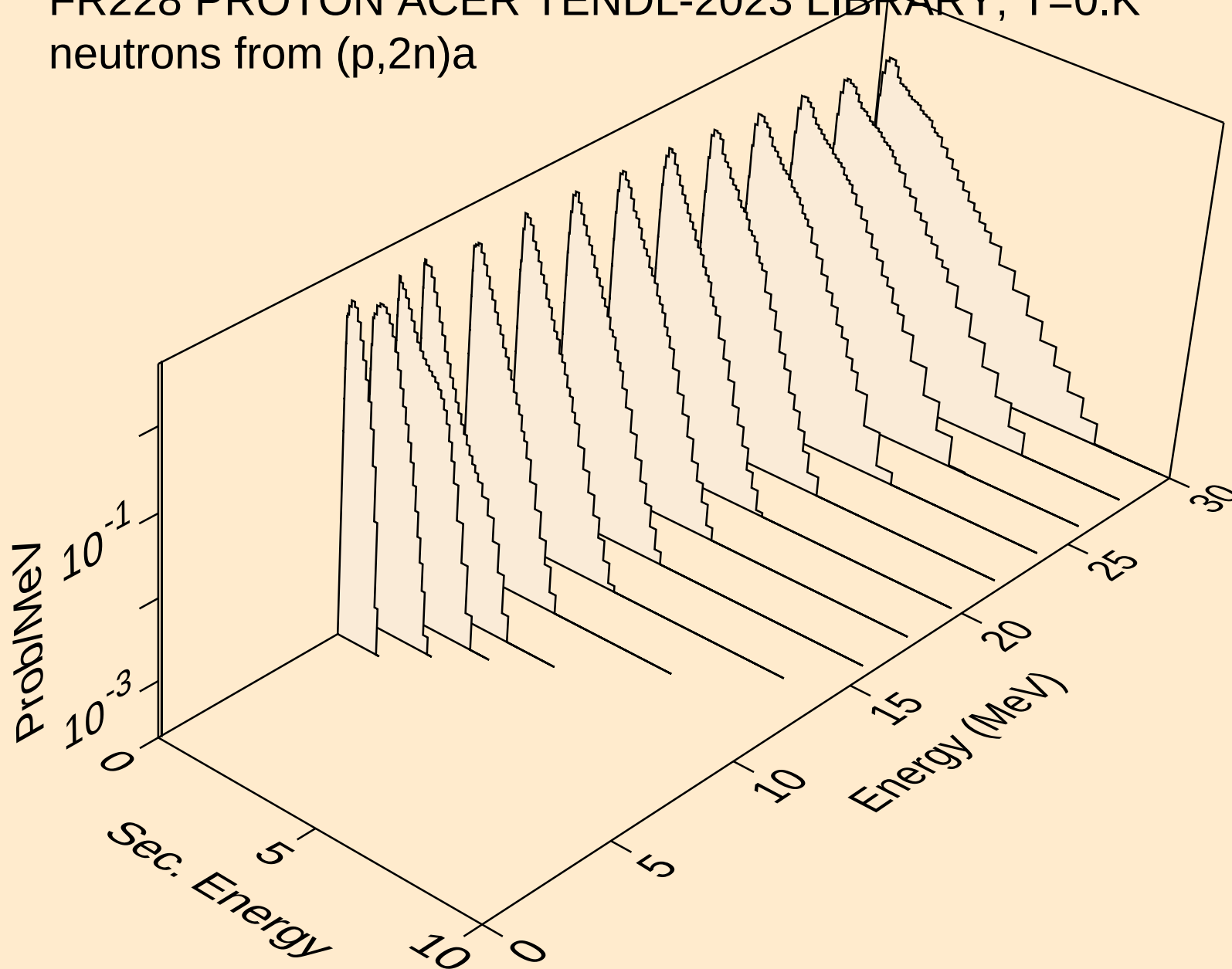
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a

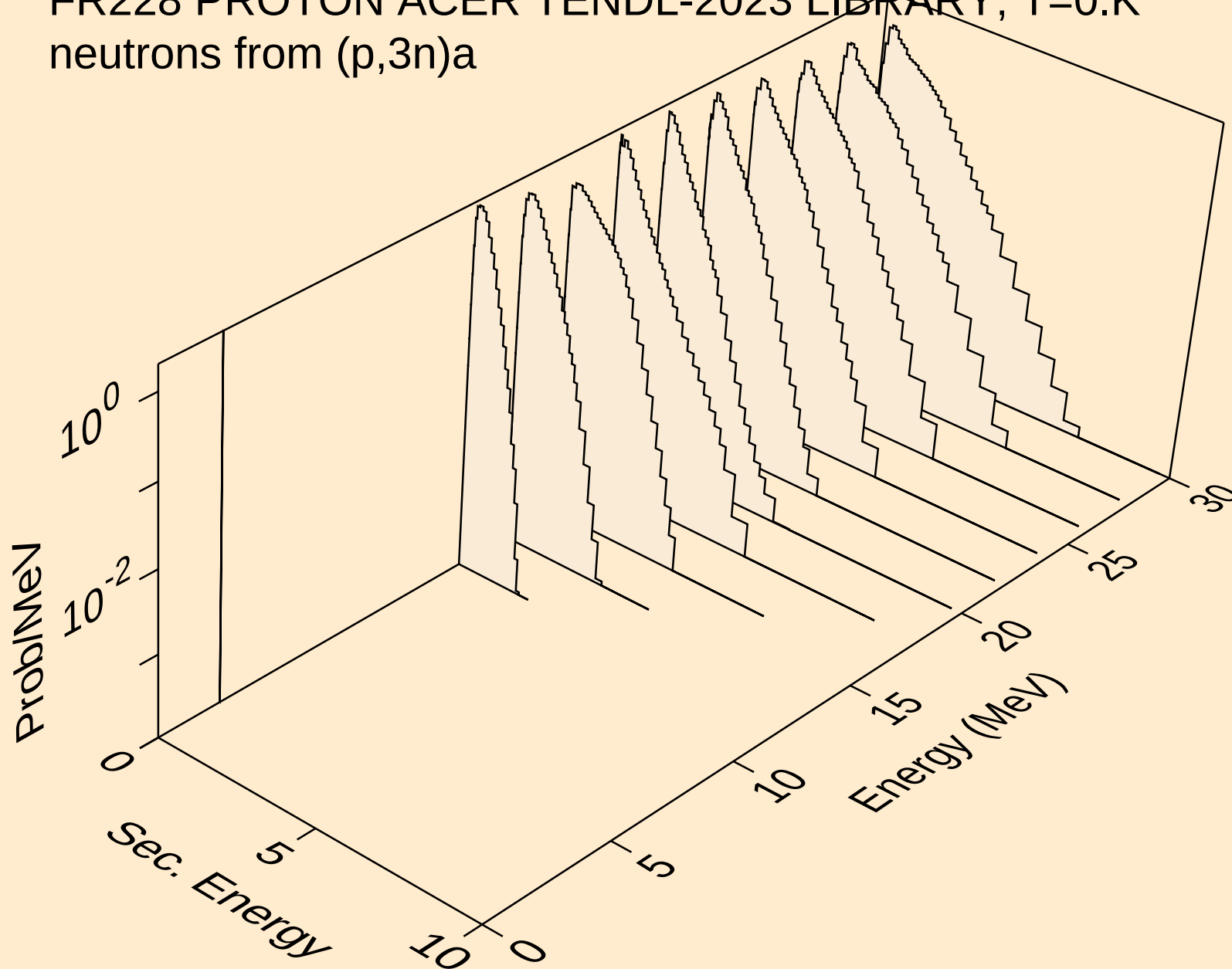


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a

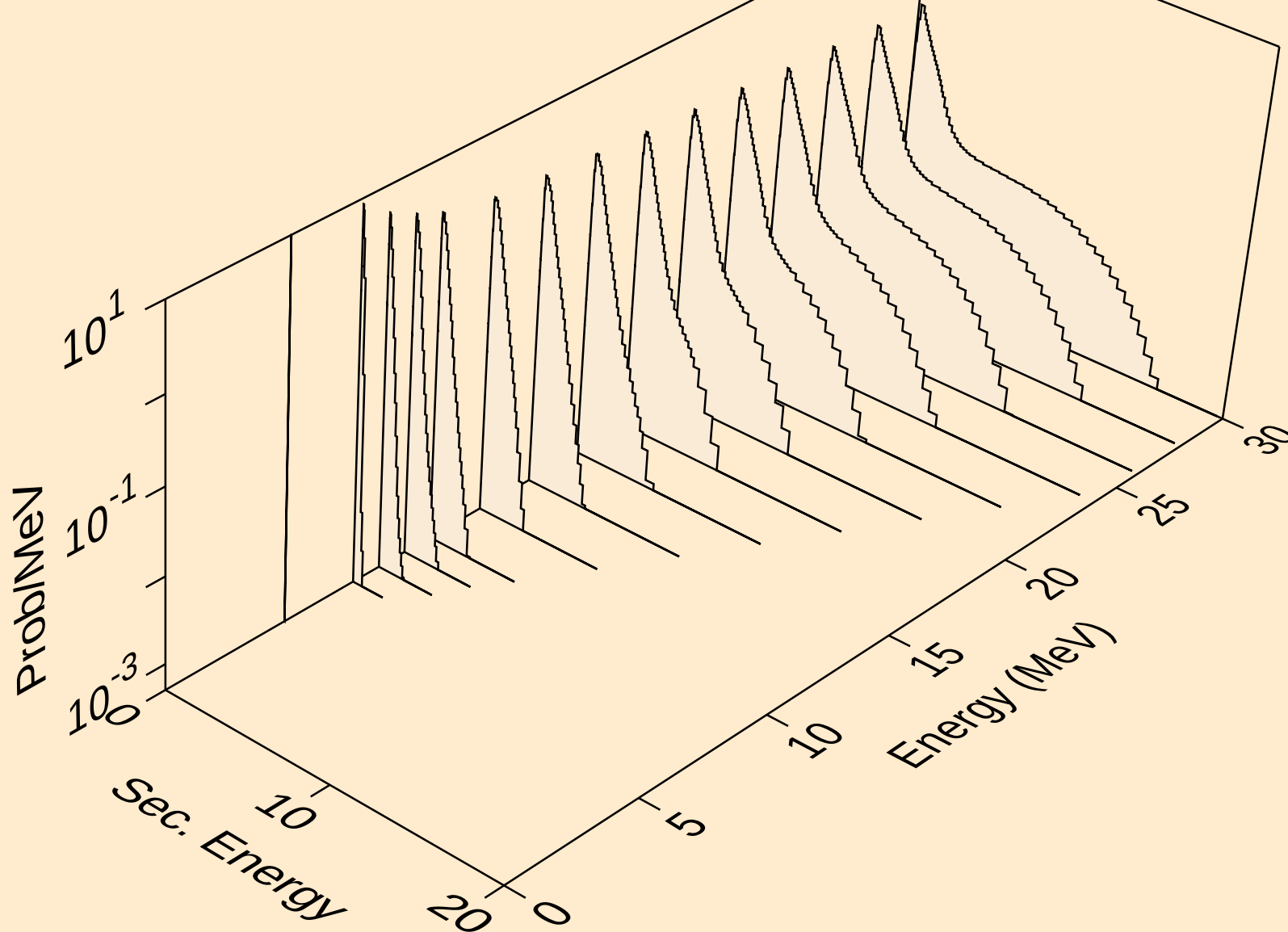




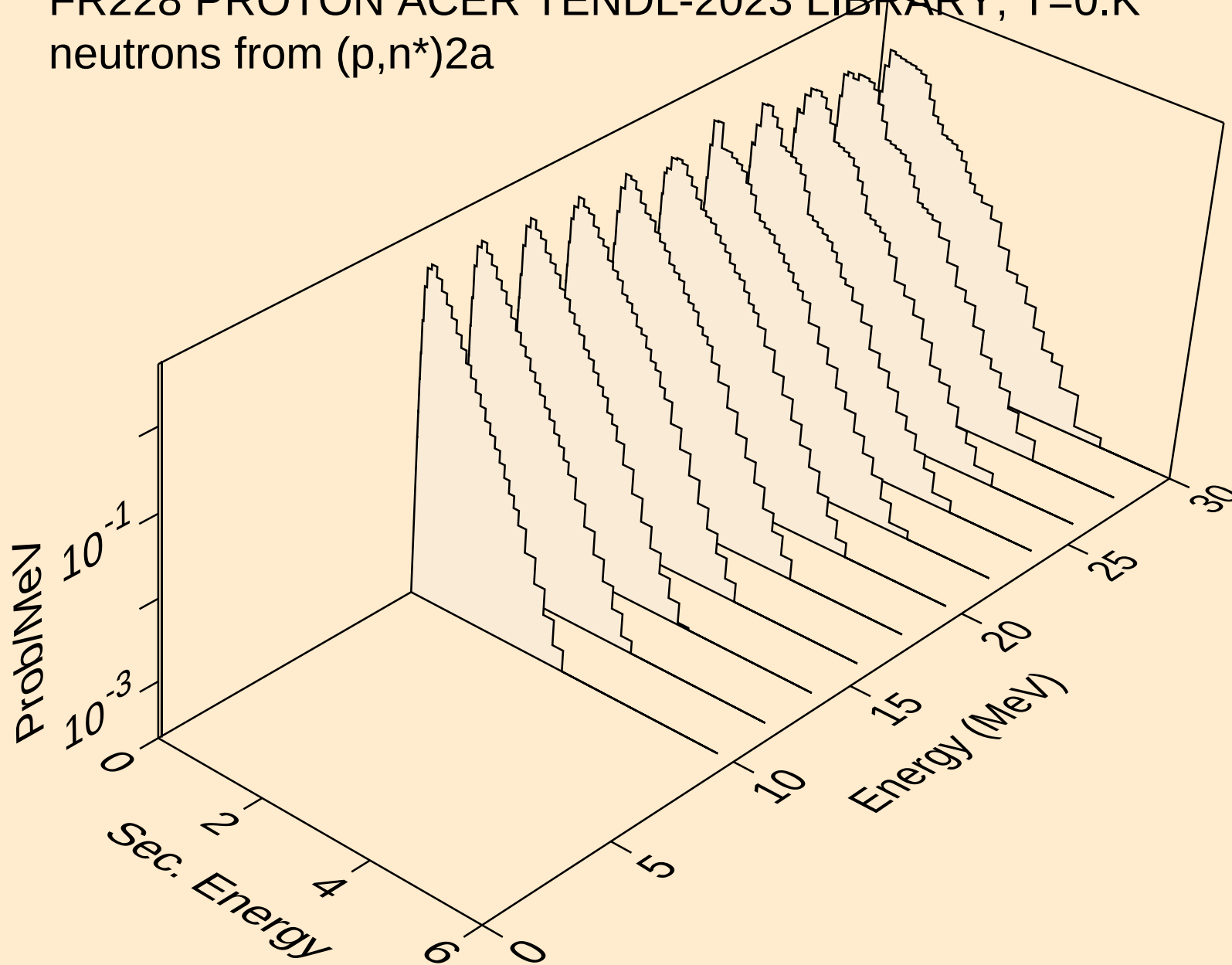
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



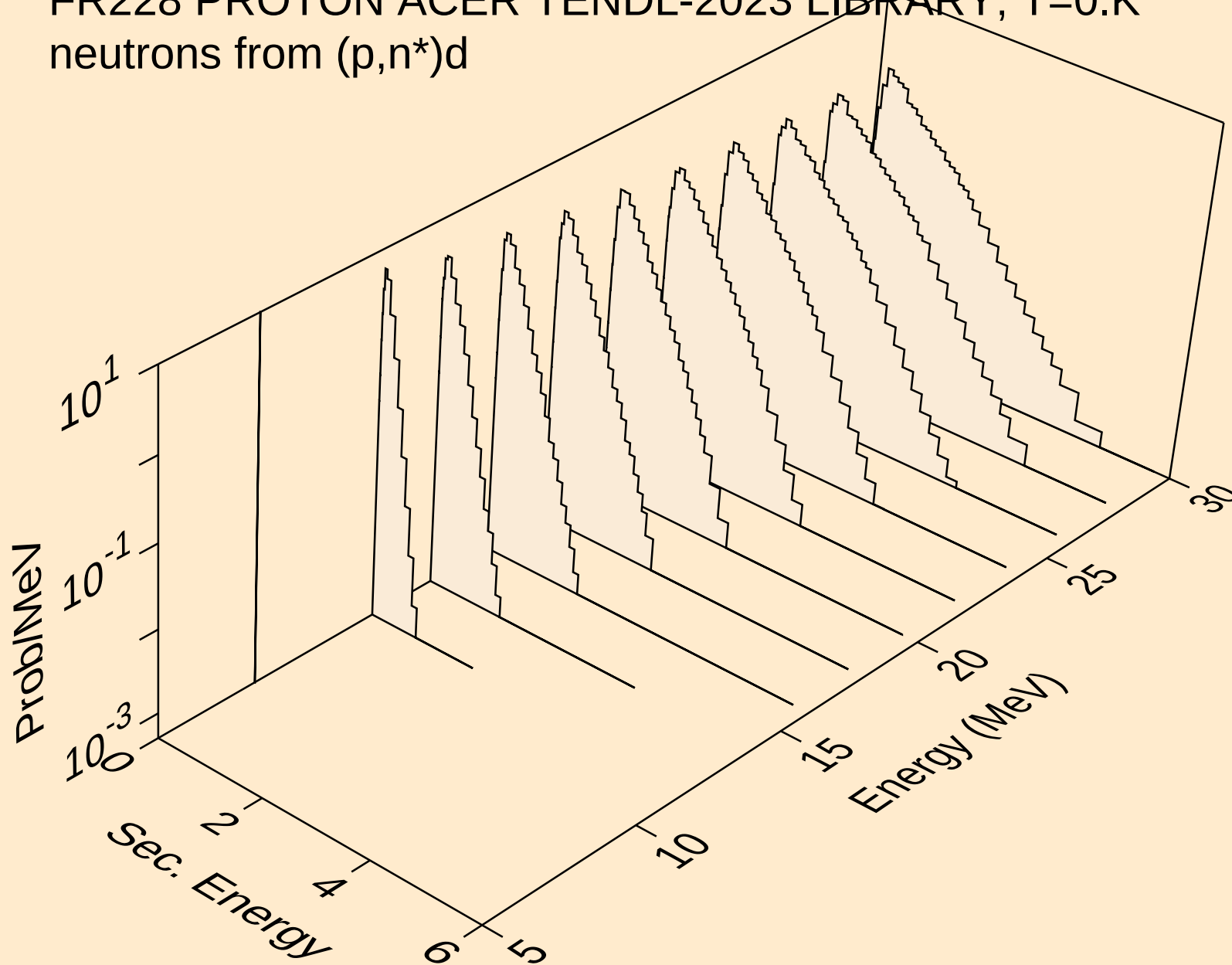
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



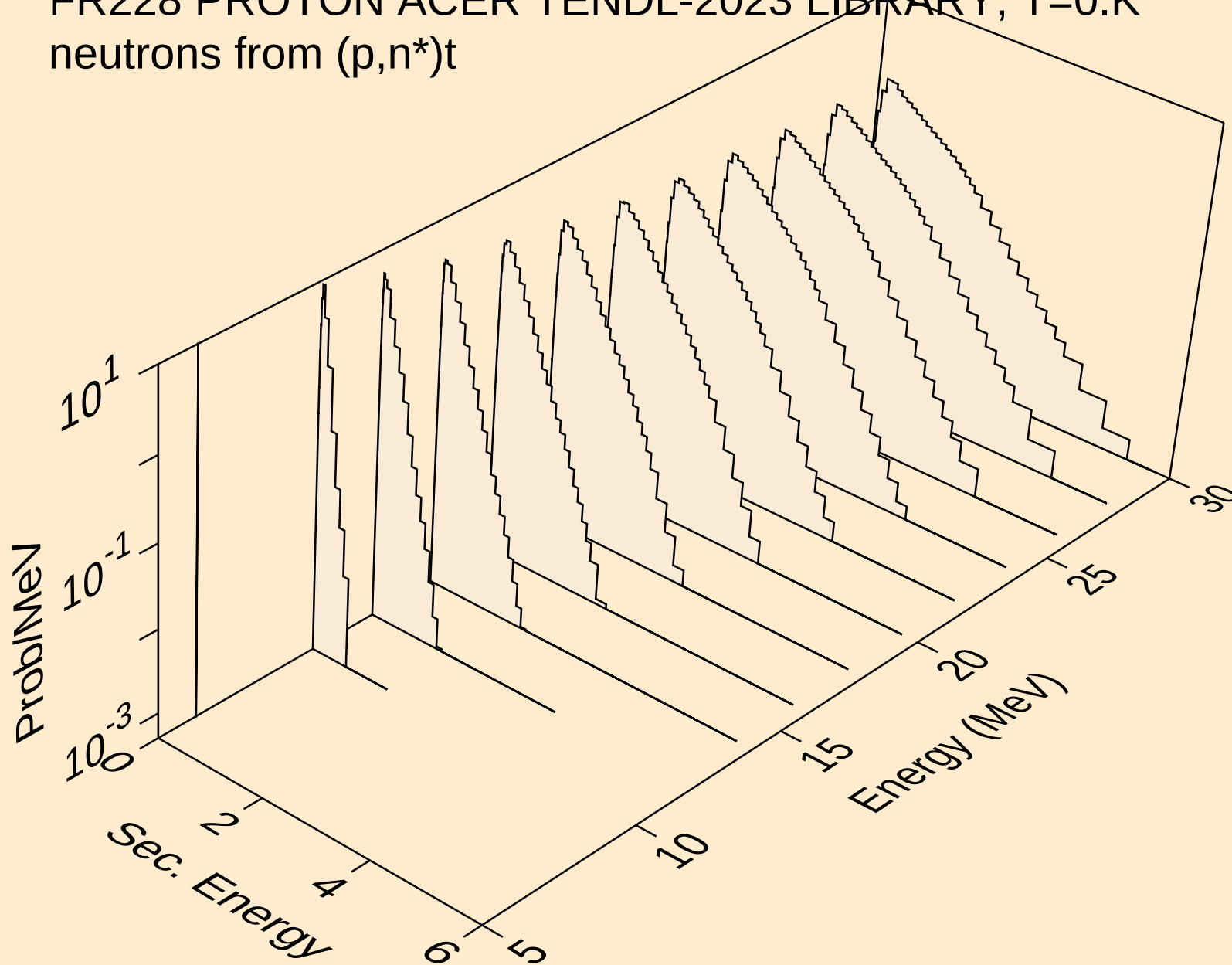
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



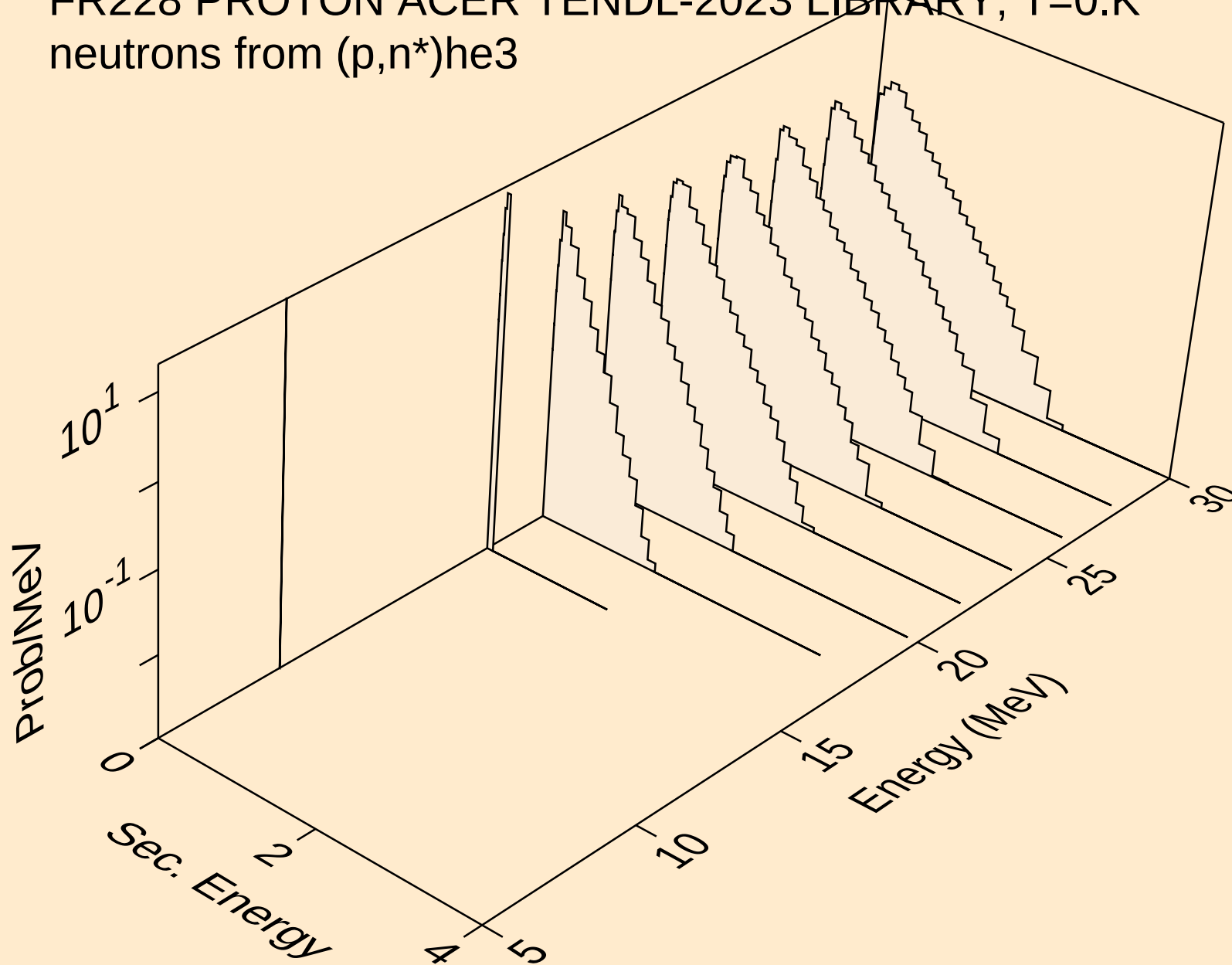
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
neutrons from  $(p,n^*)d$



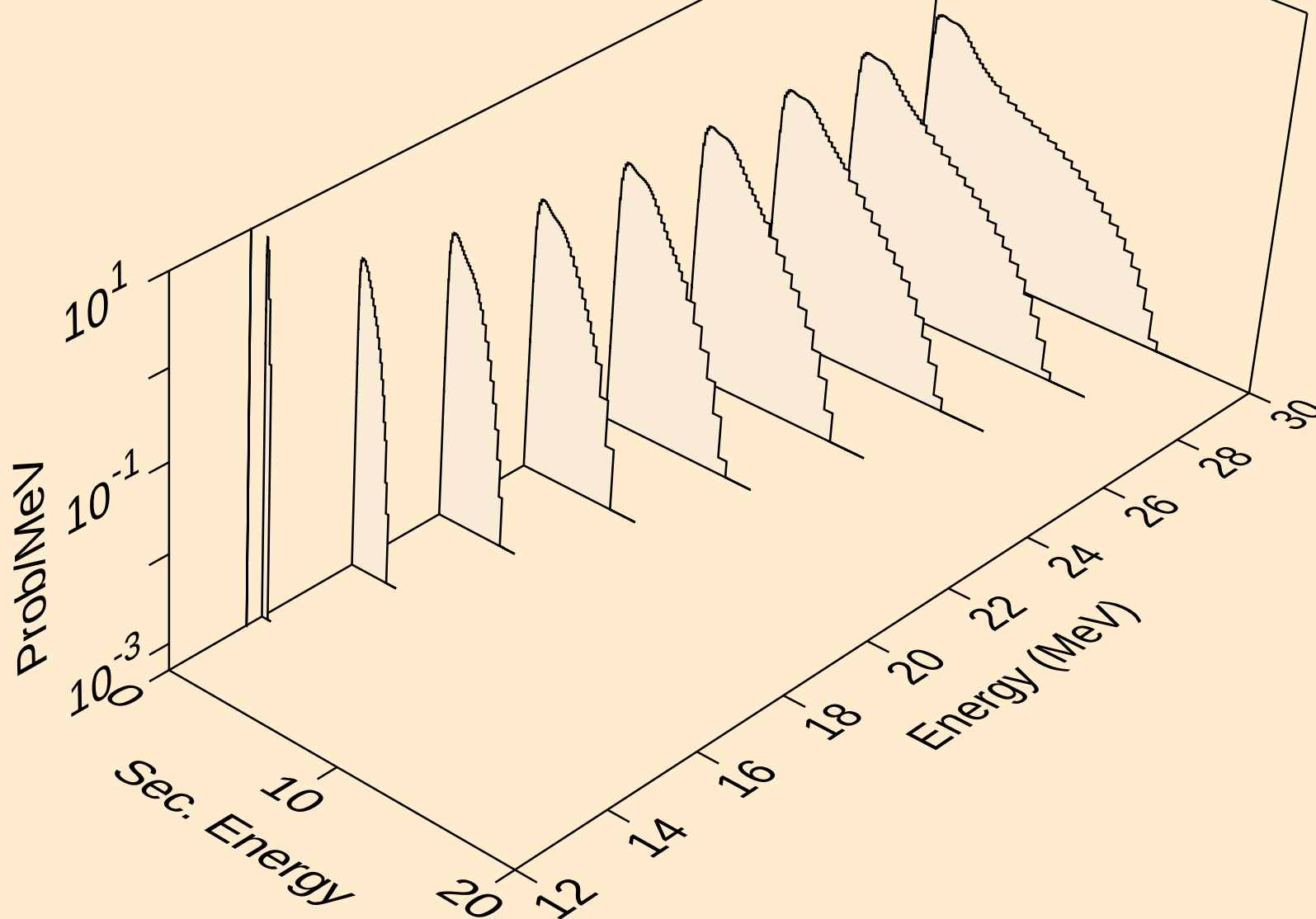
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



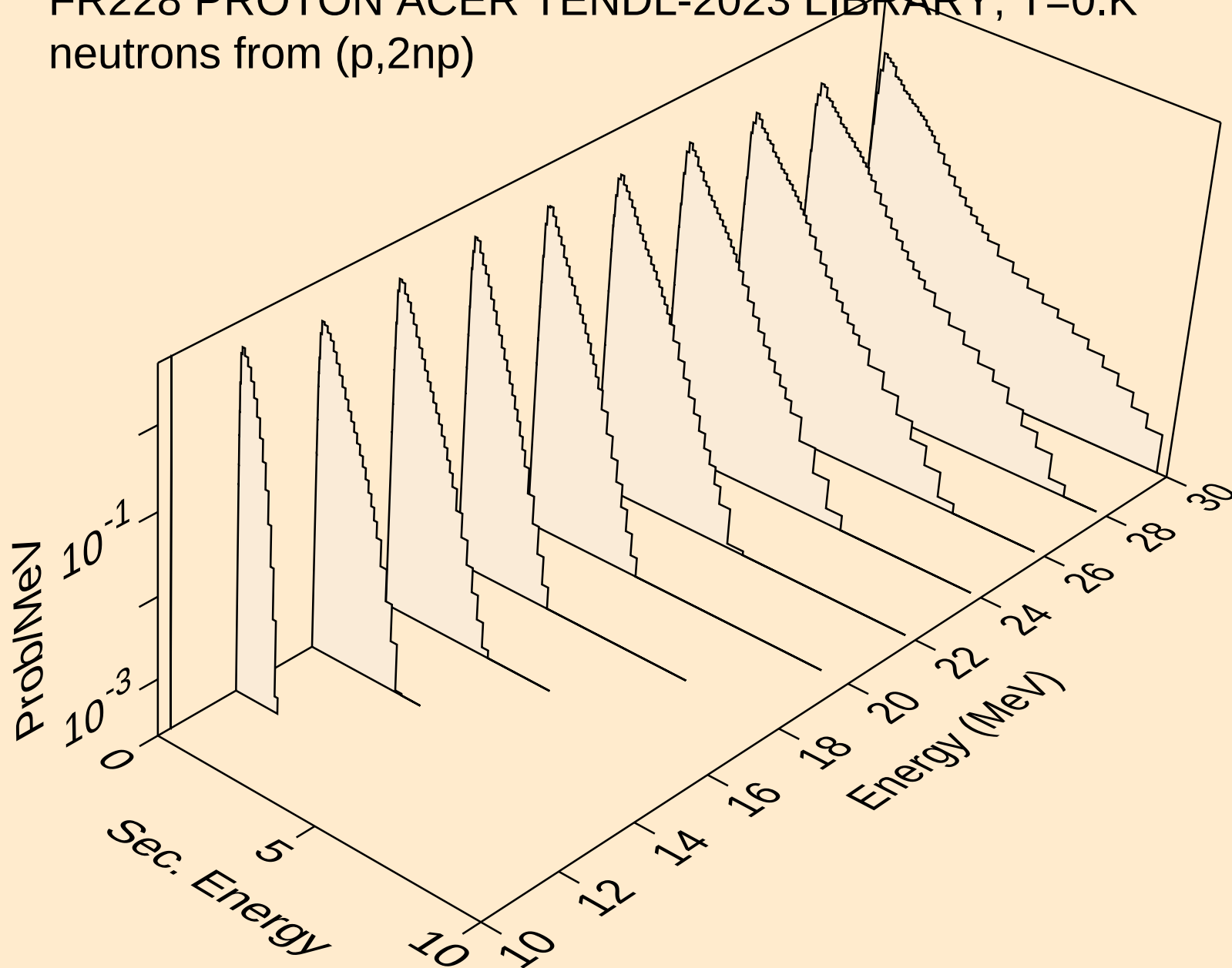
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)

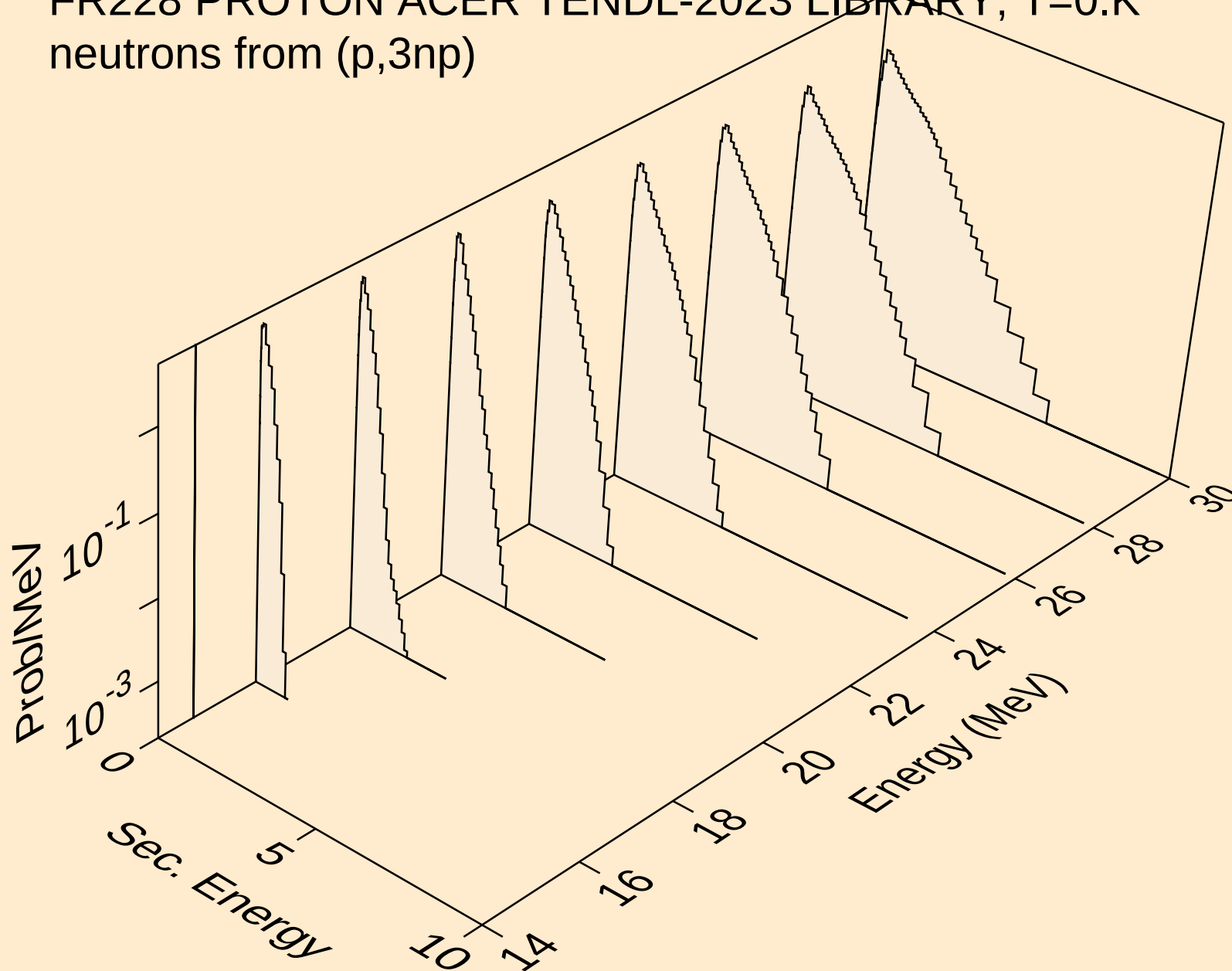


FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
neutrons from (p,2np)

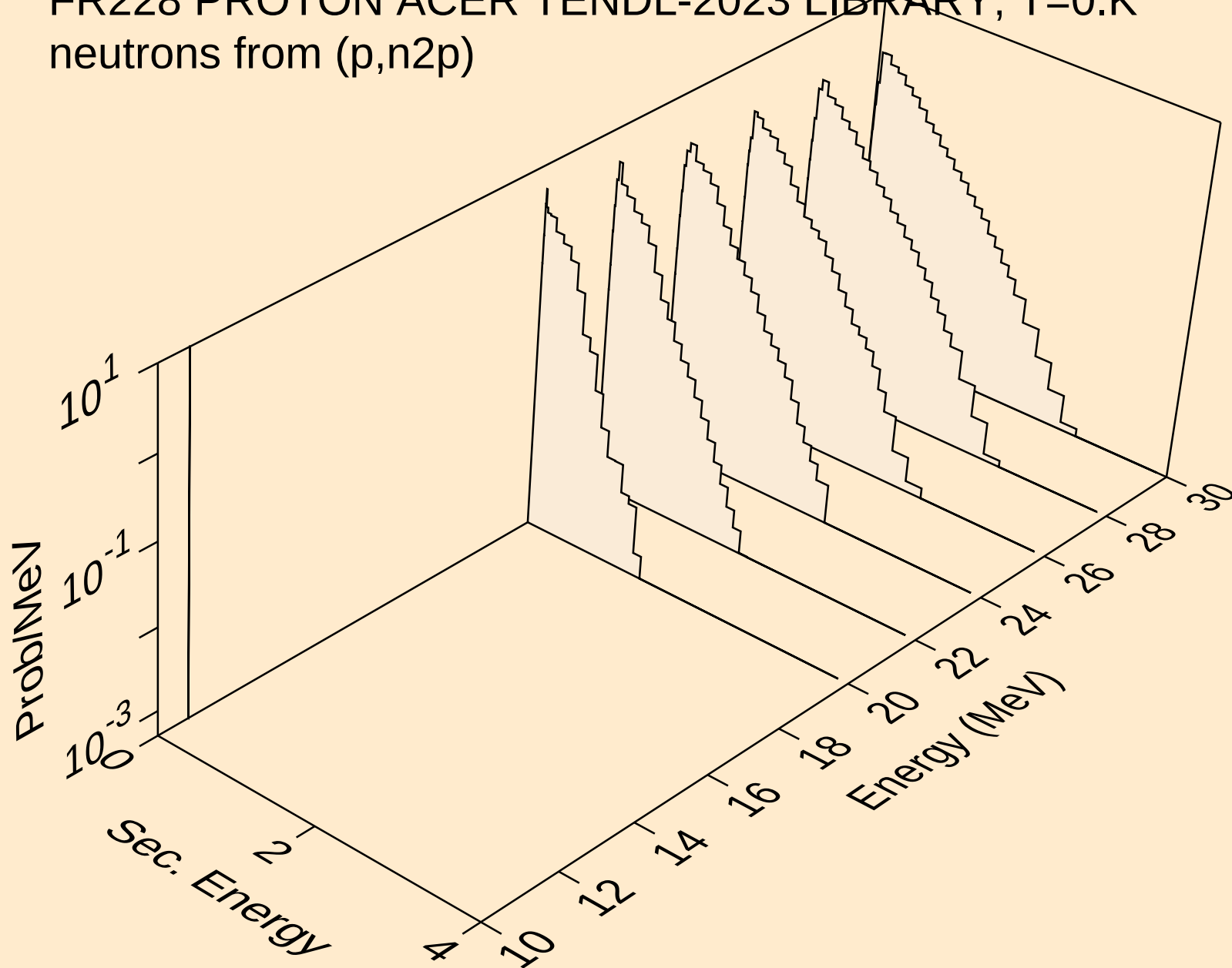




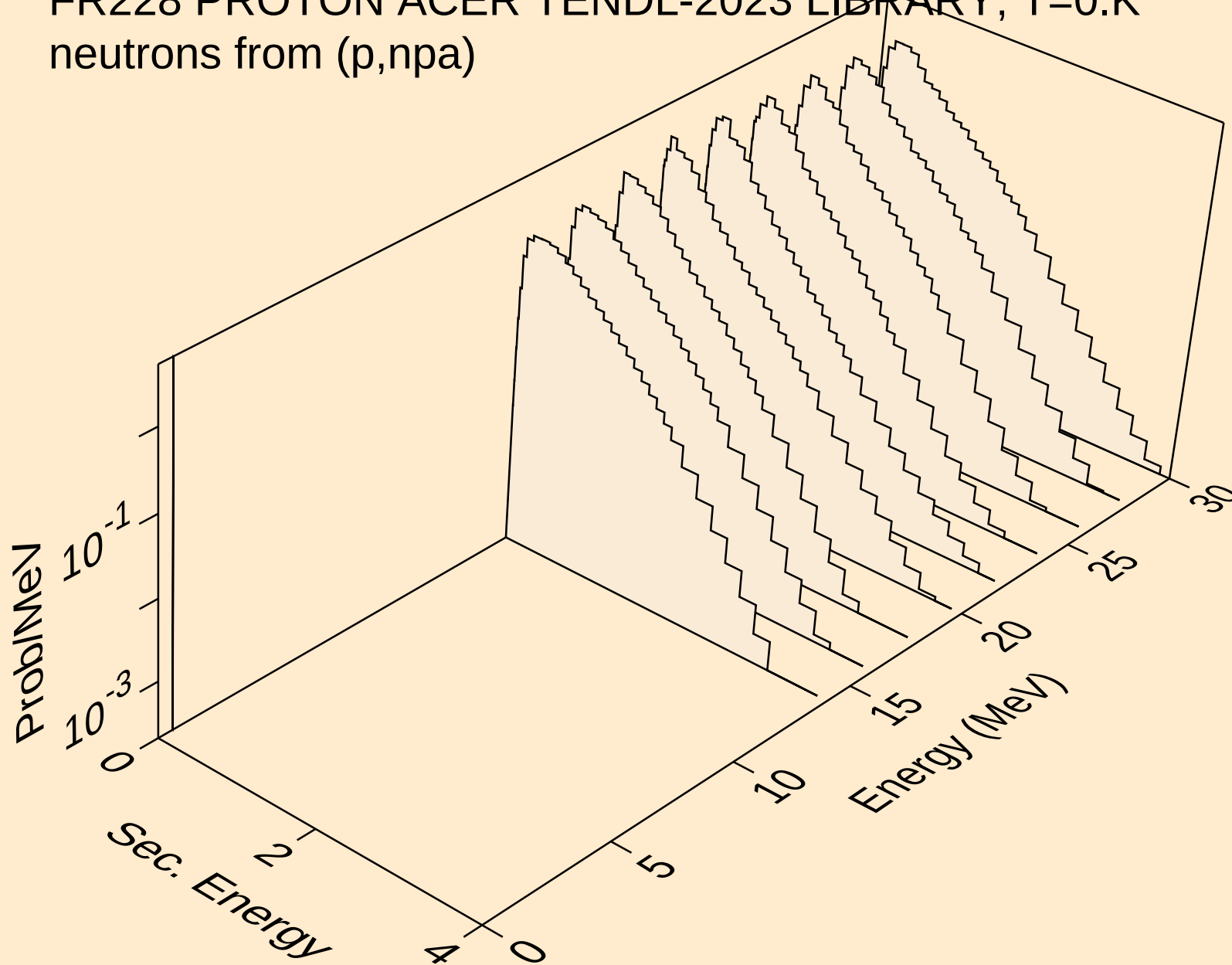
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)



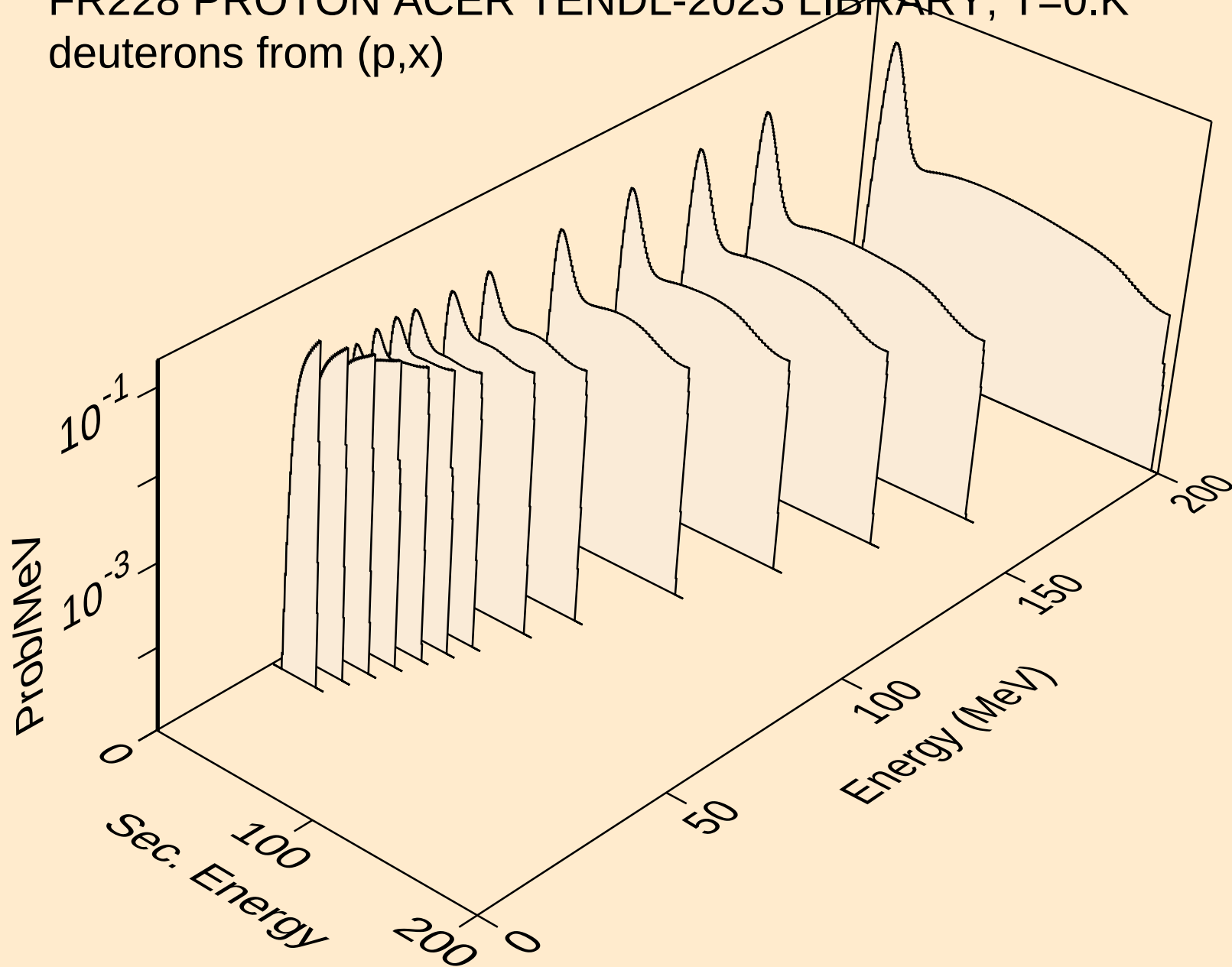
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)



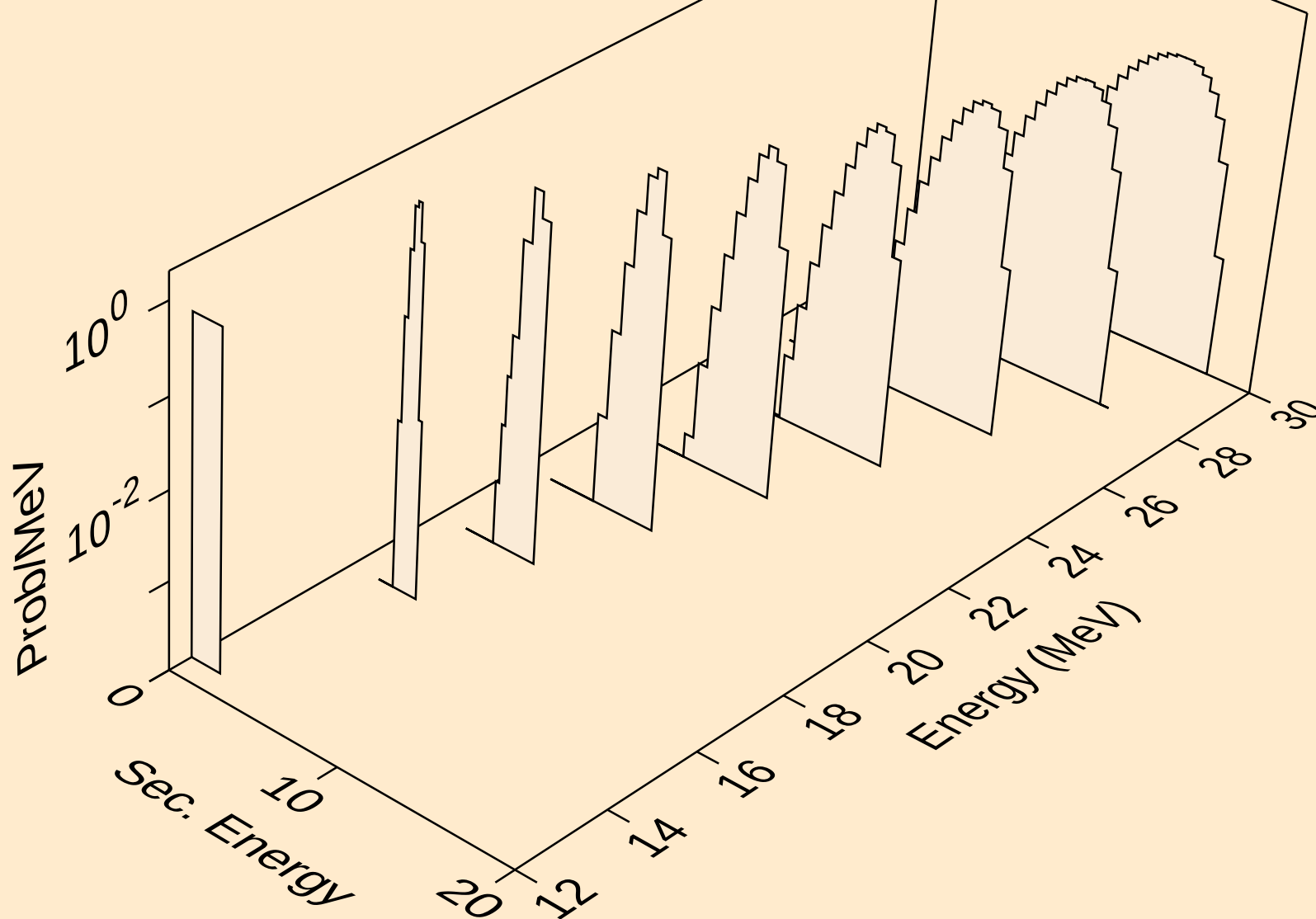
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



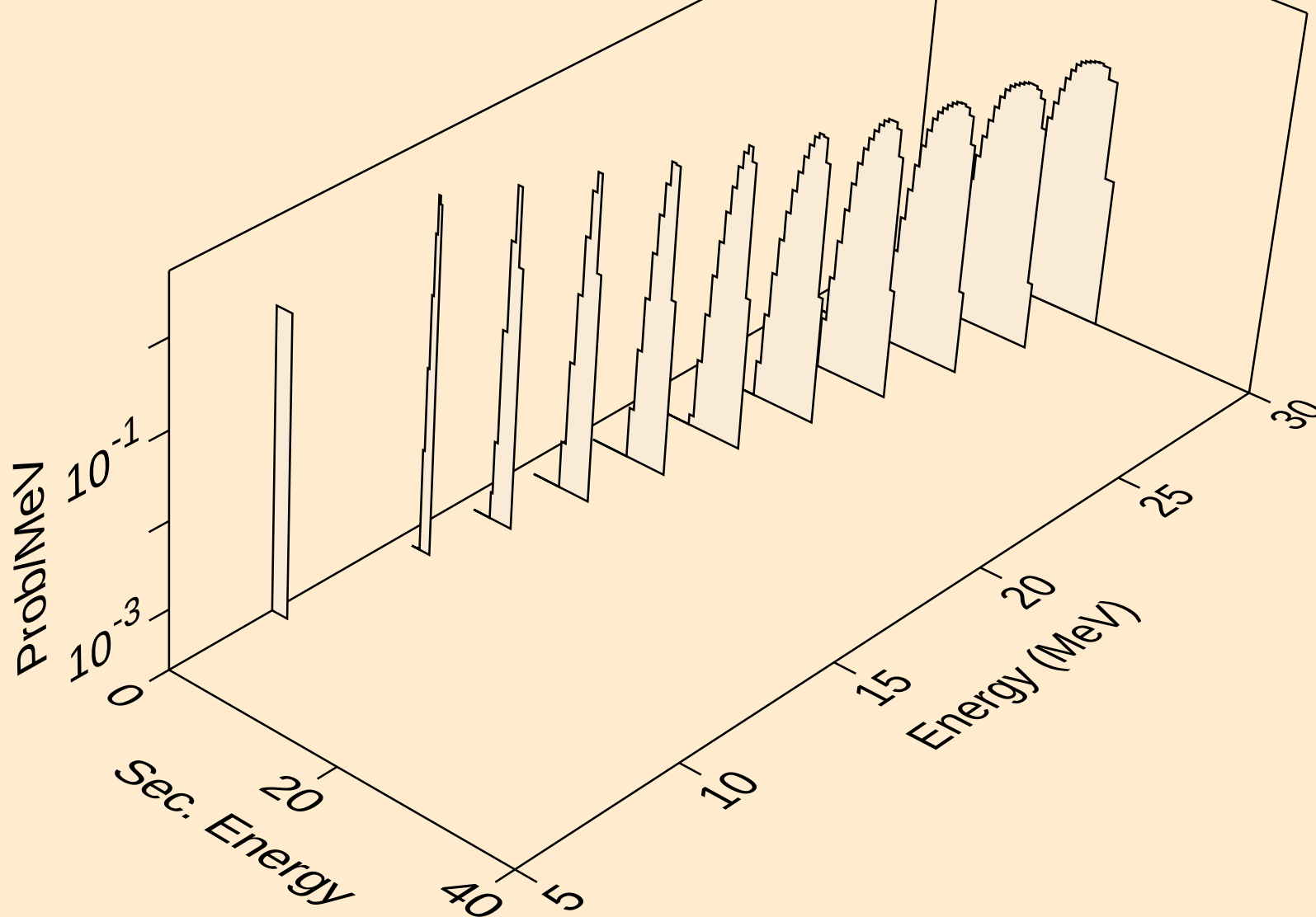
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



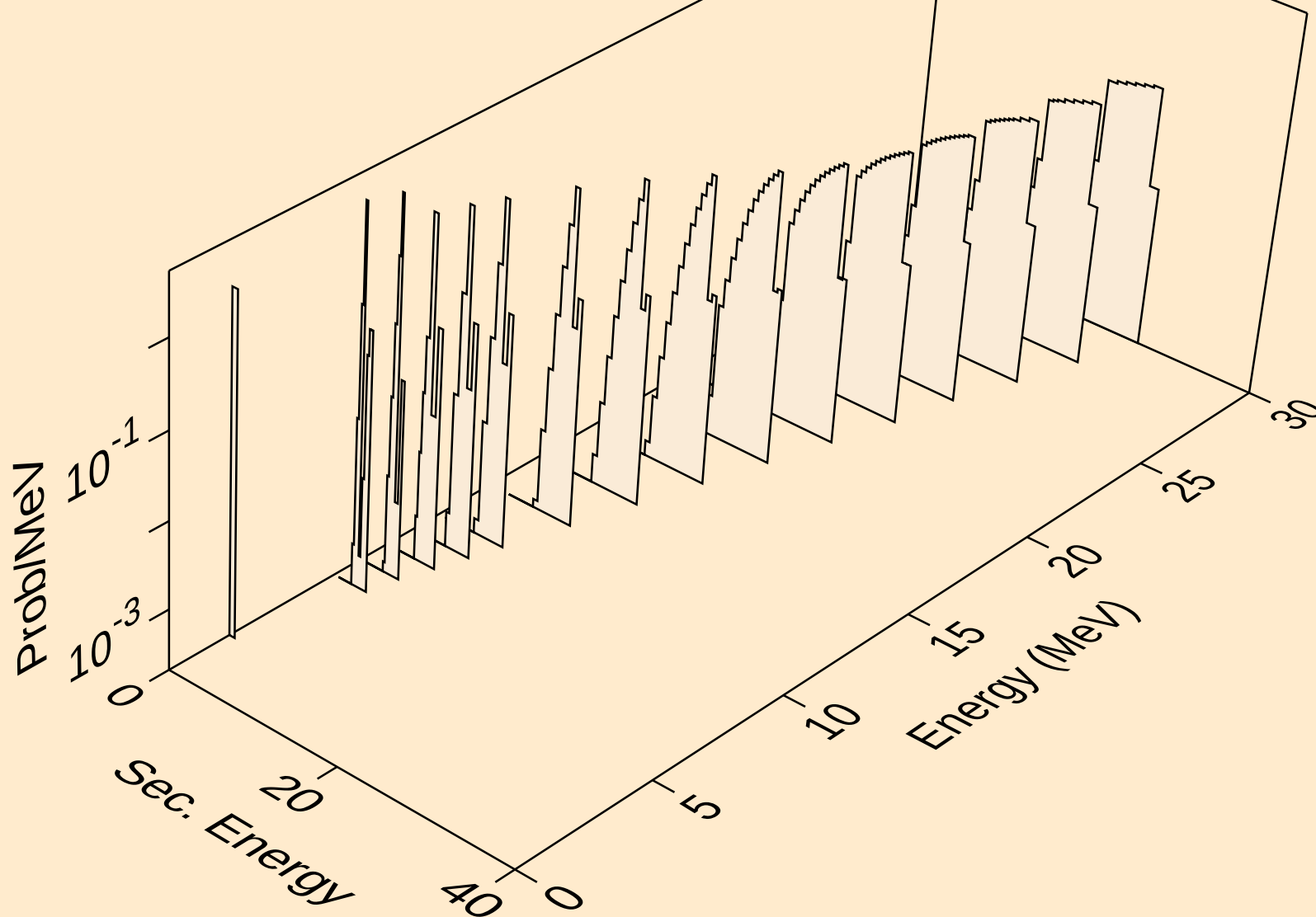
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,2nd)



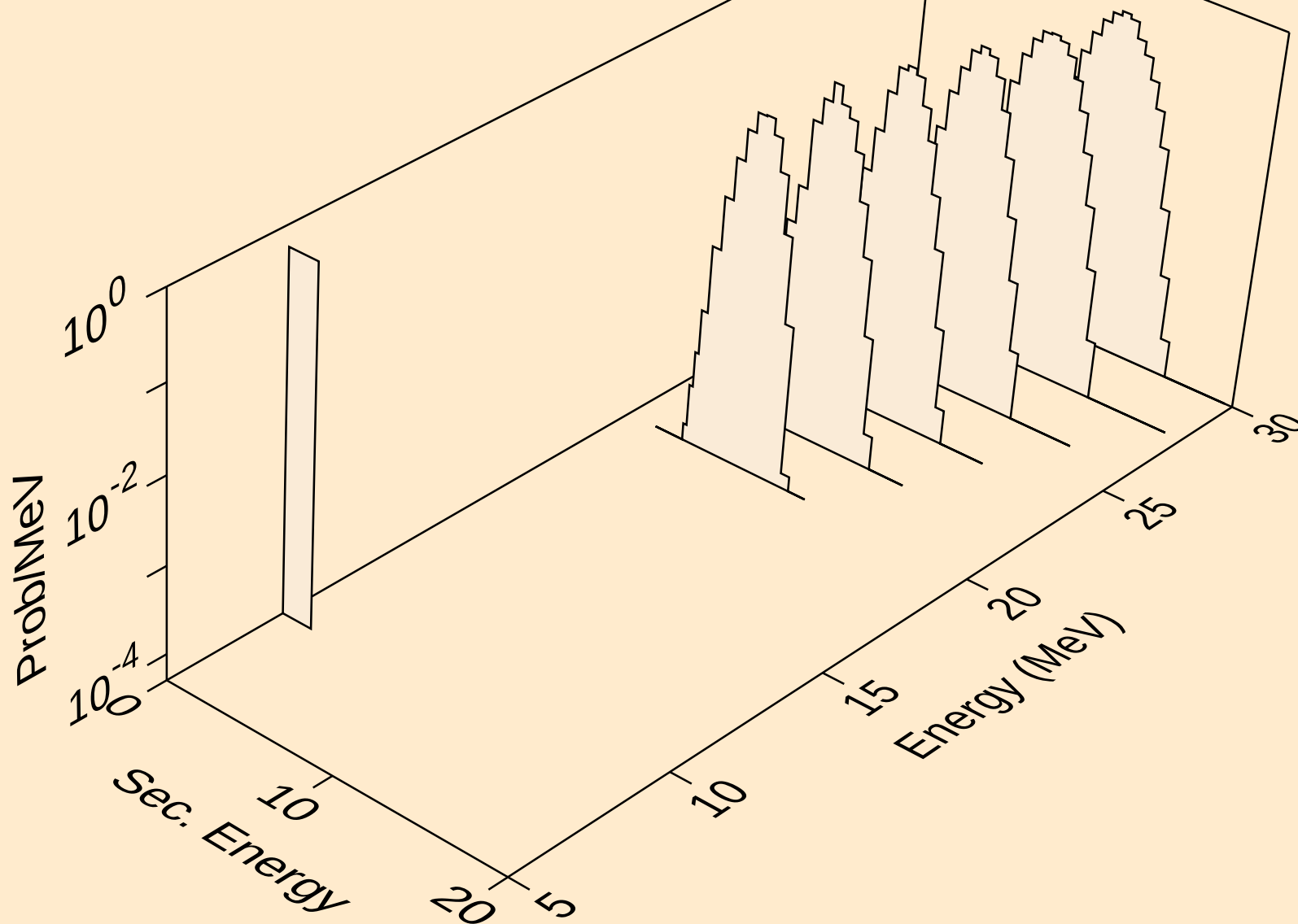
FR228 PROTON ACER TENDL-2023 LIBRARY;  $T=0.K$   
deuterons from  $(p,n^*)d$



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)

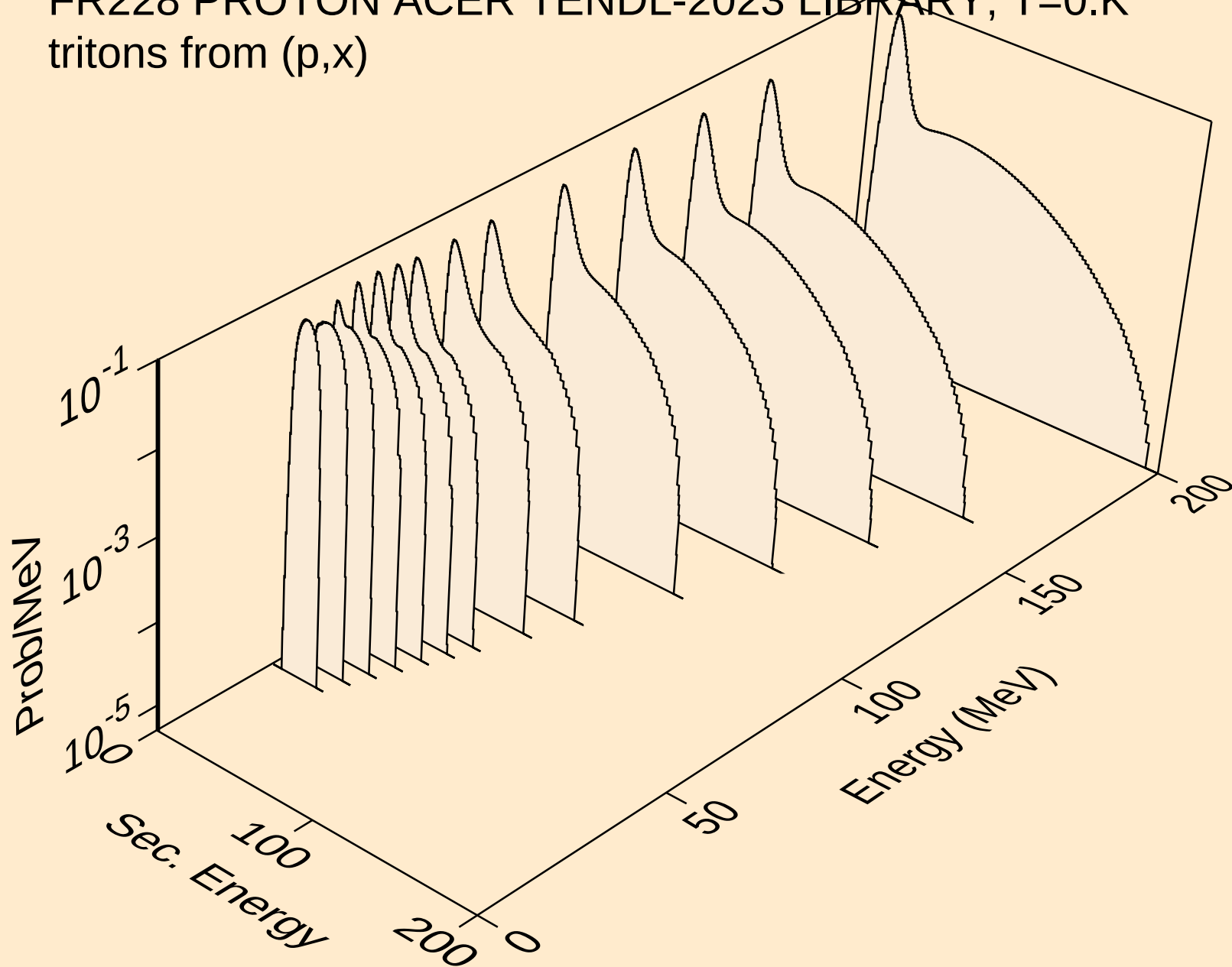


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)

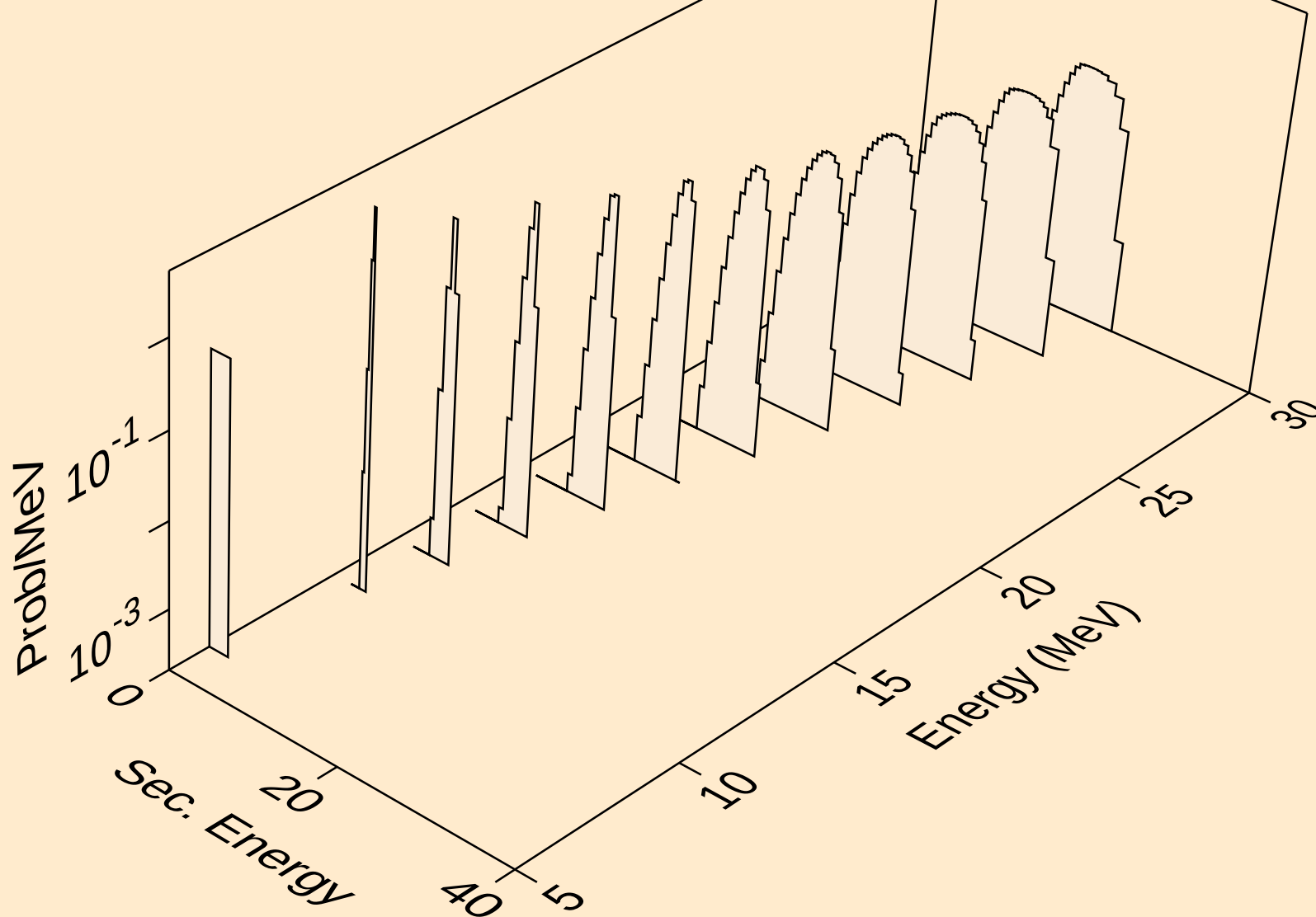




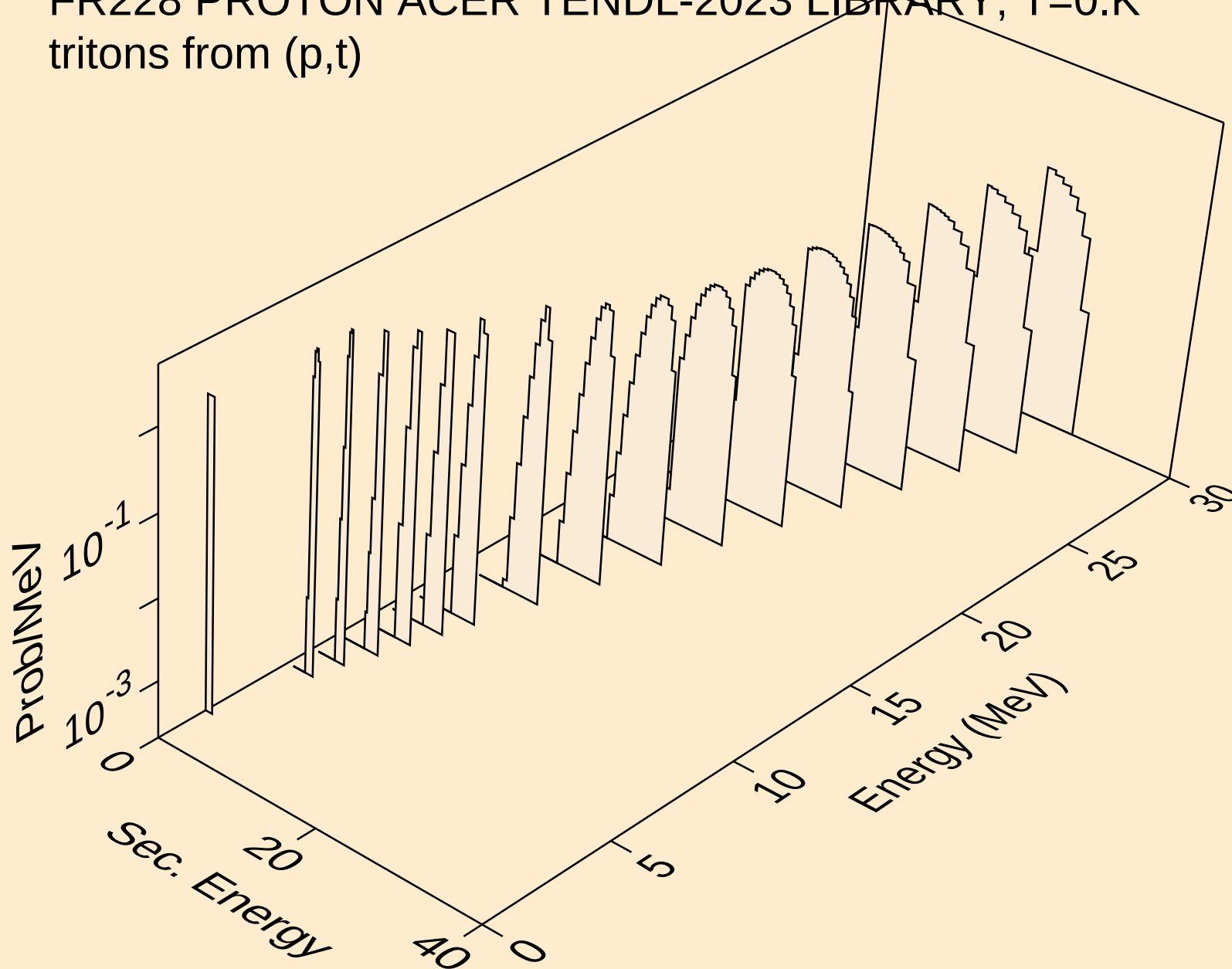
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)



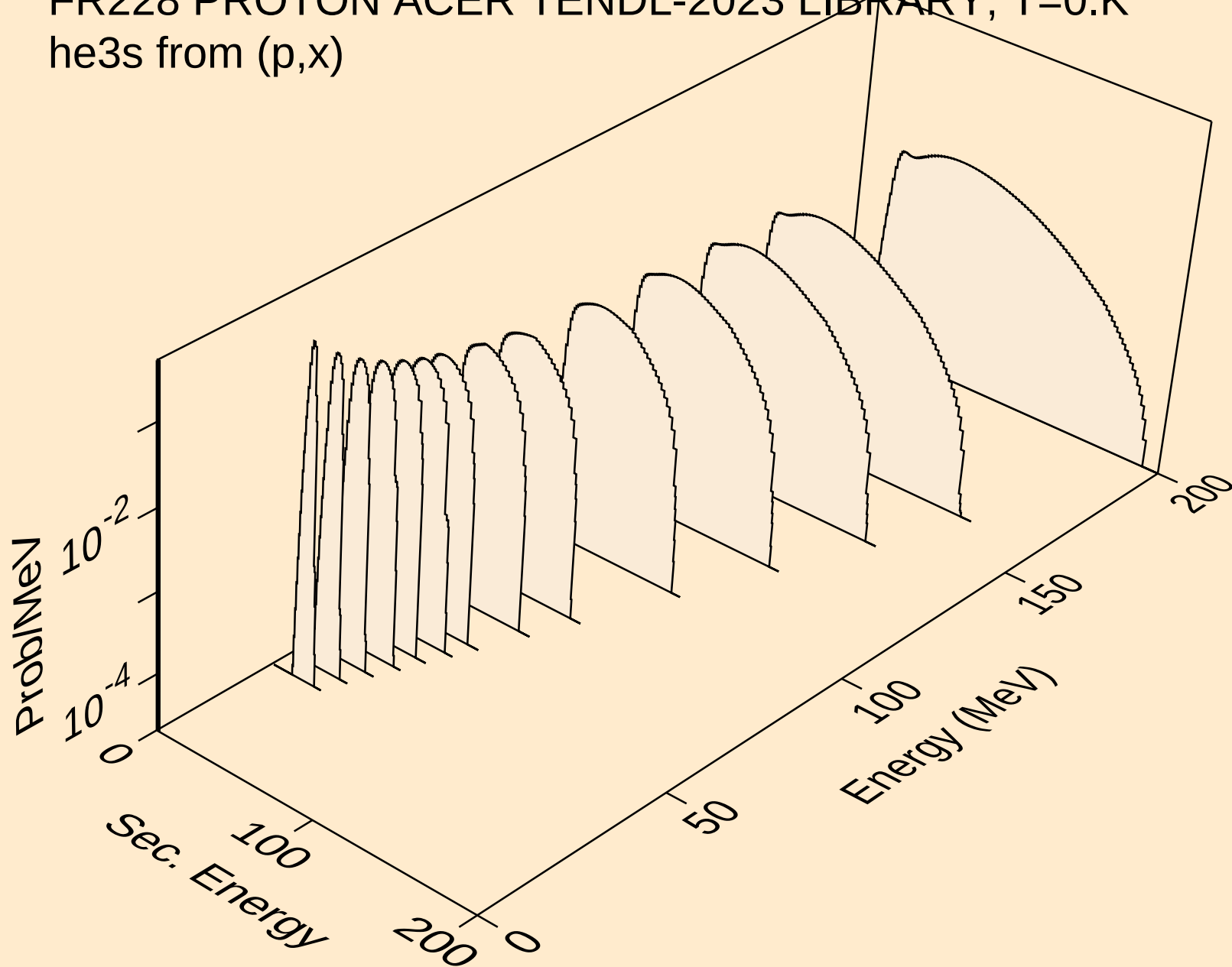
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



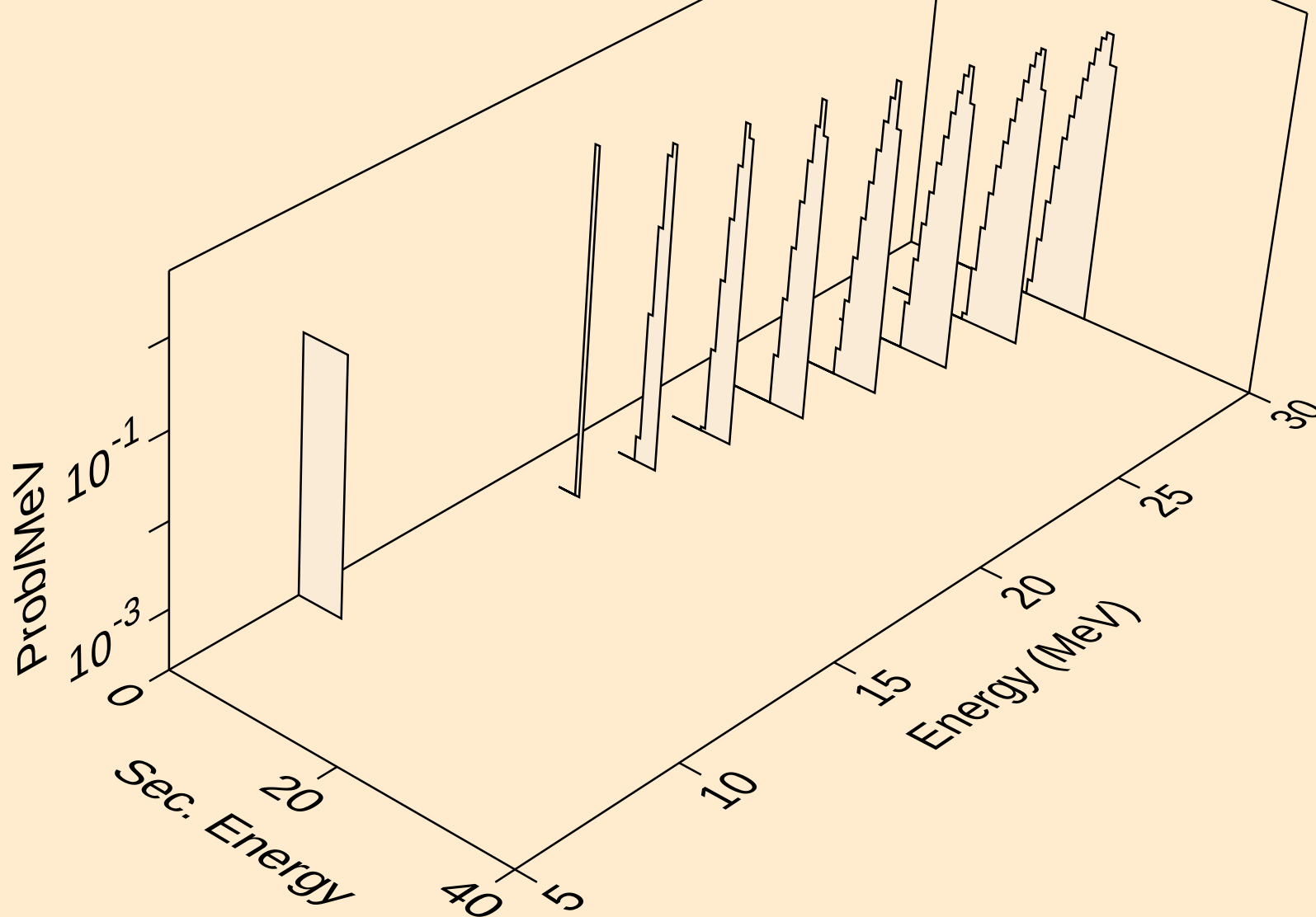
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tritons from (p,t)



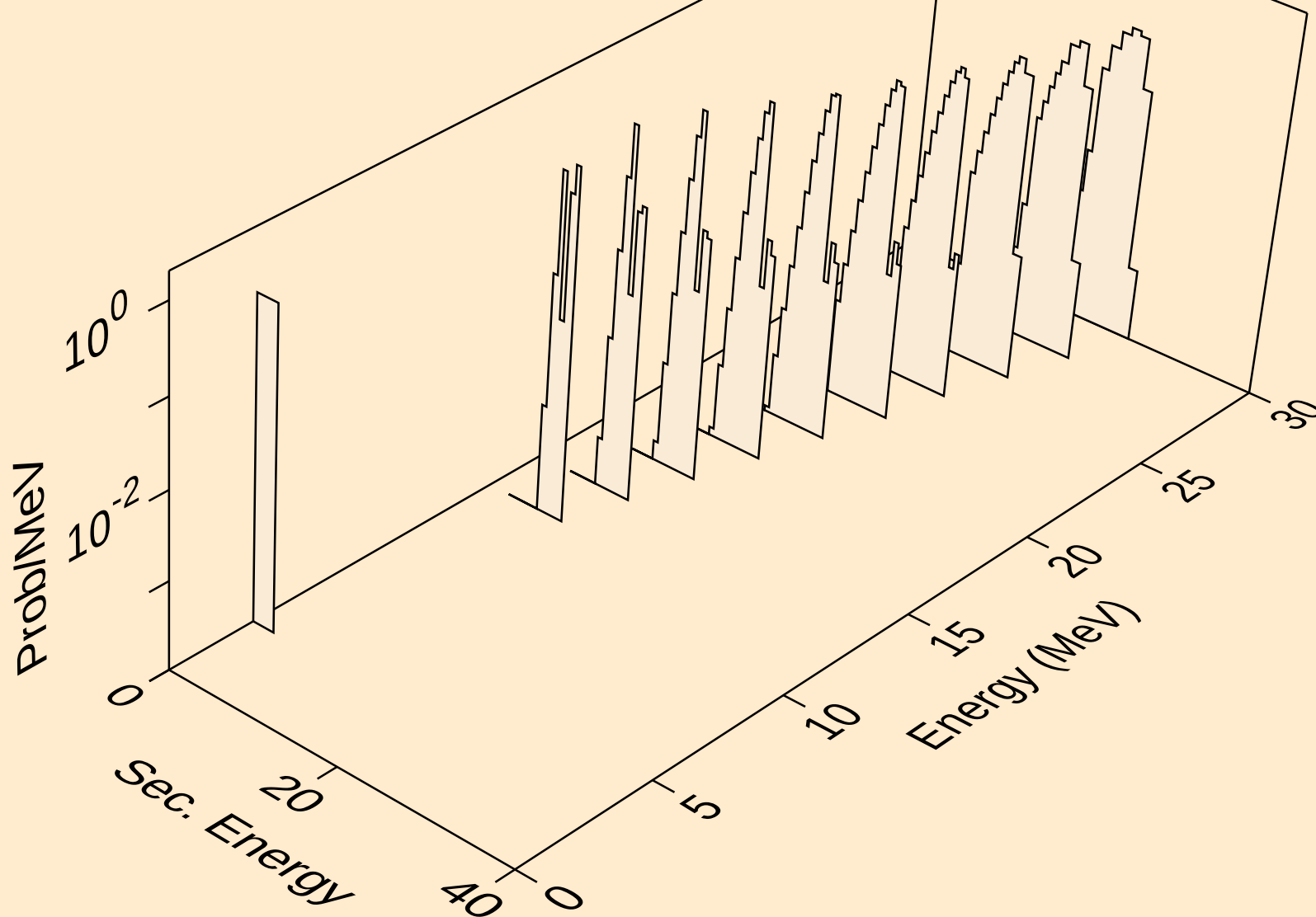
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



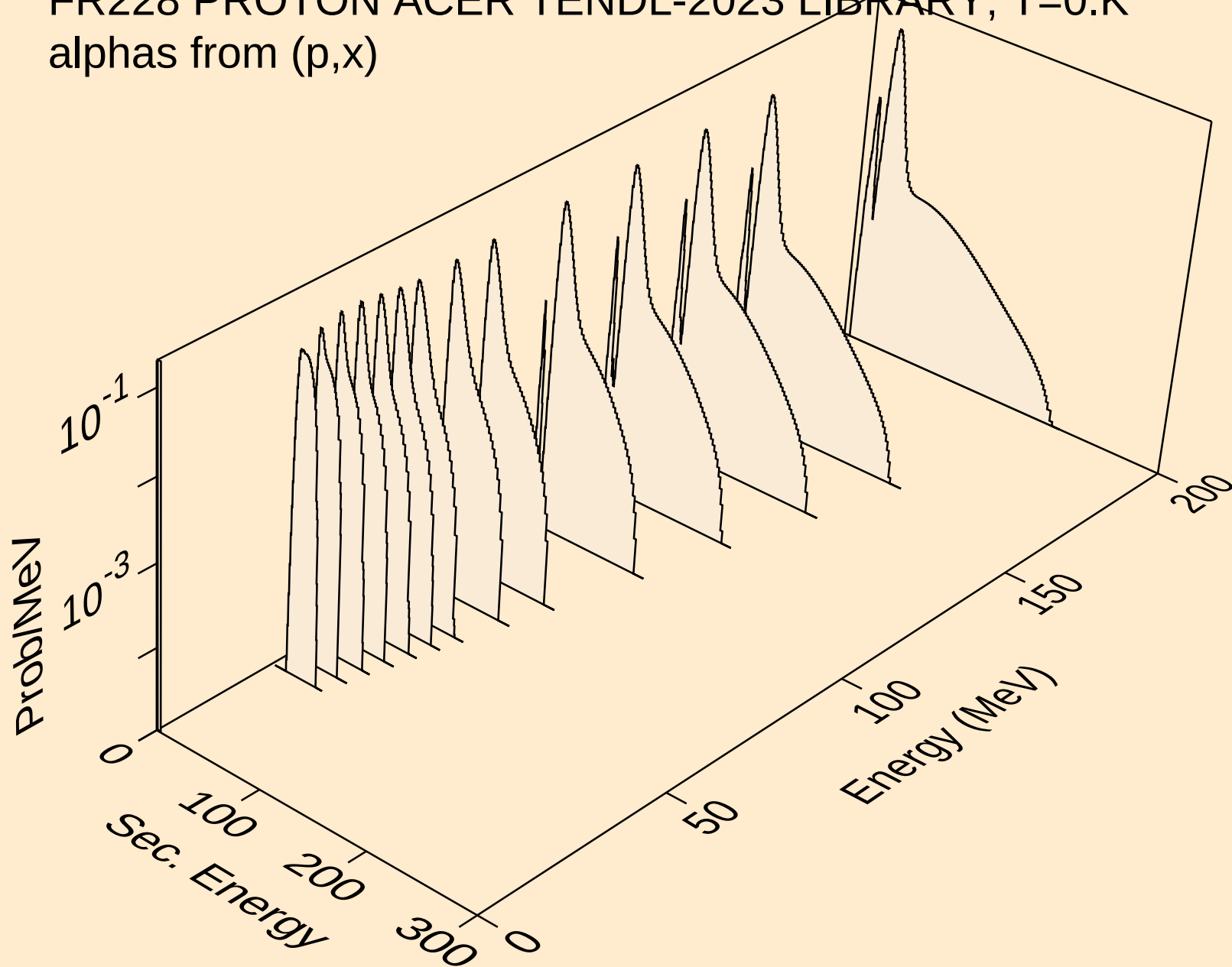
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



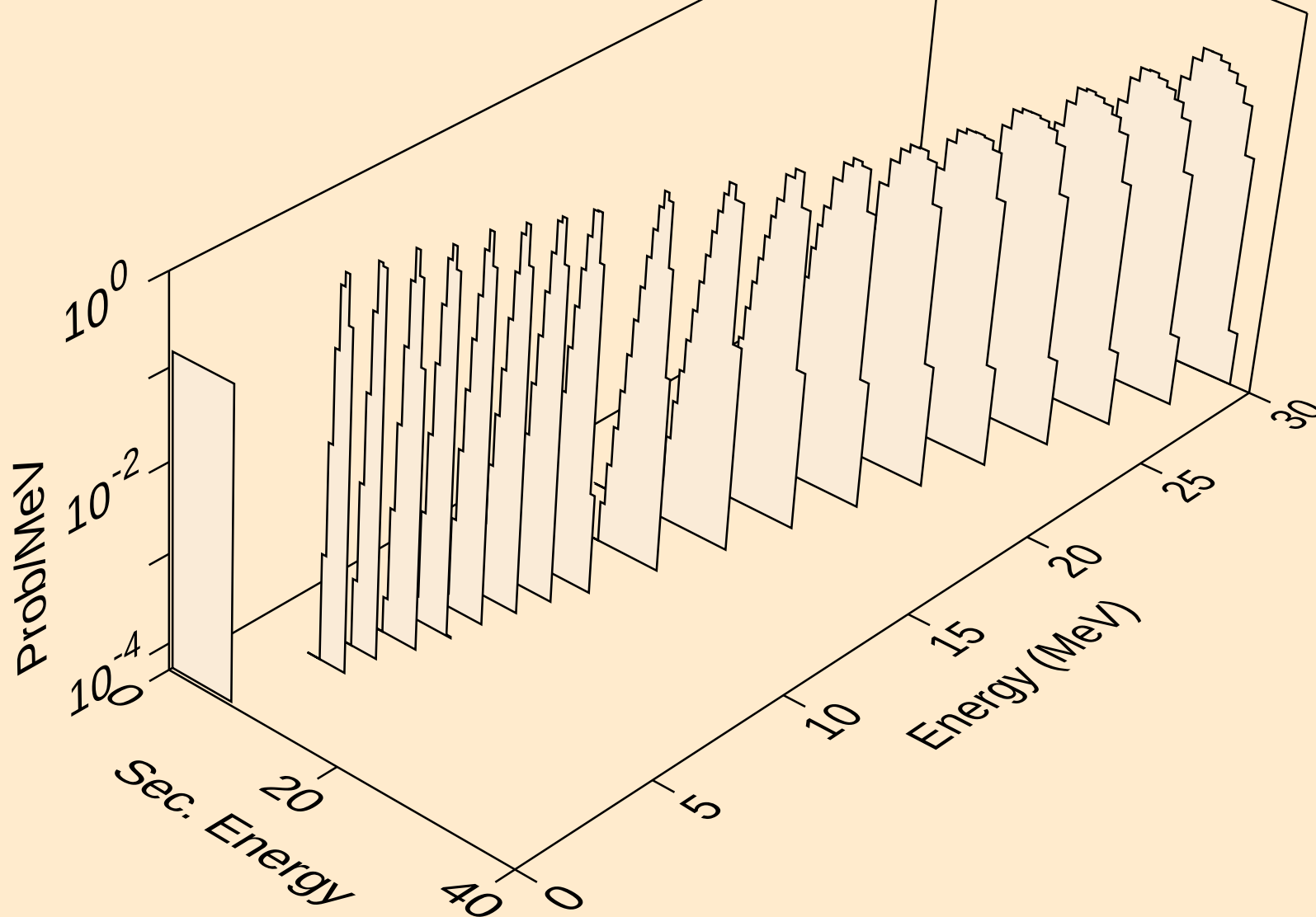
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

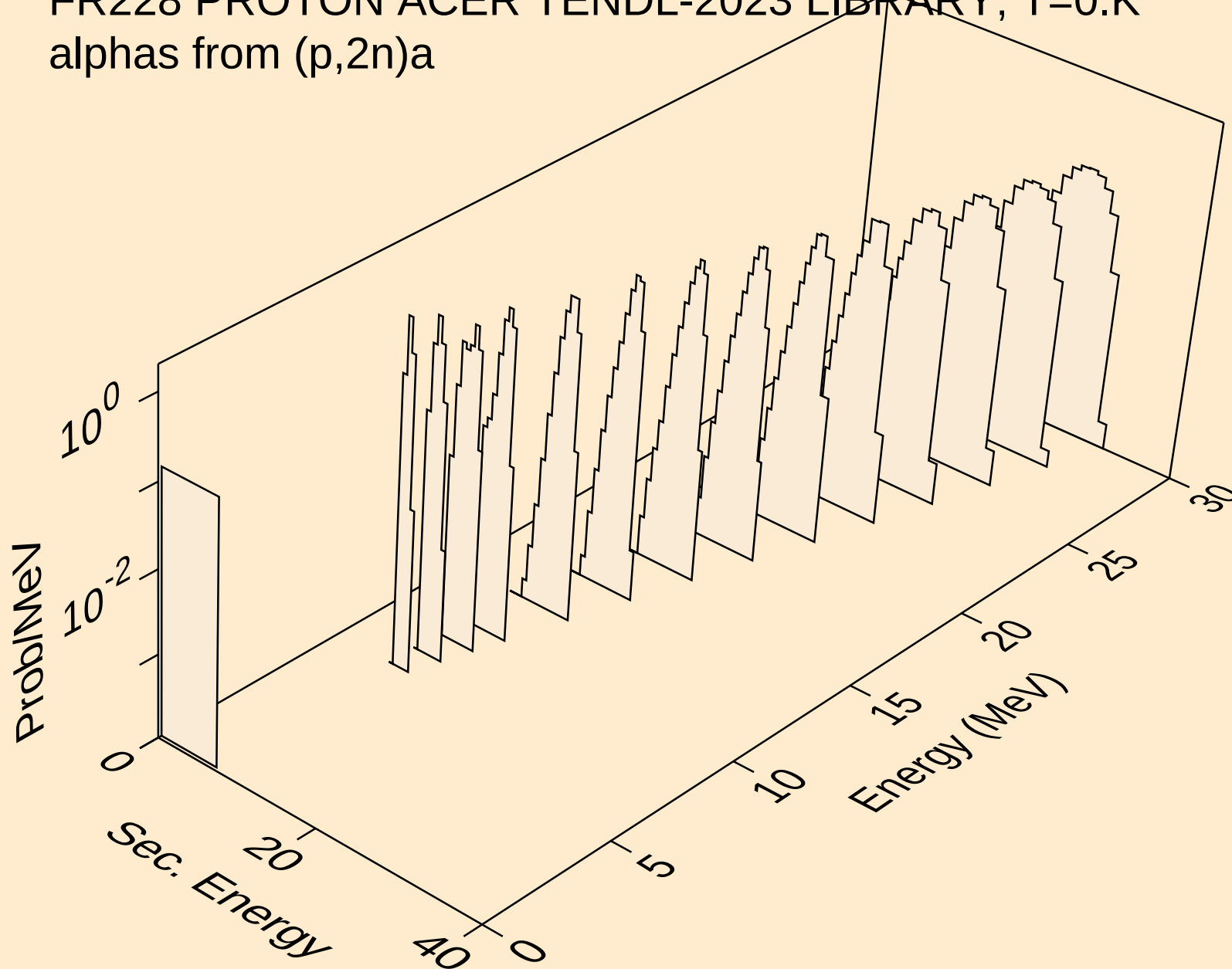


FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a

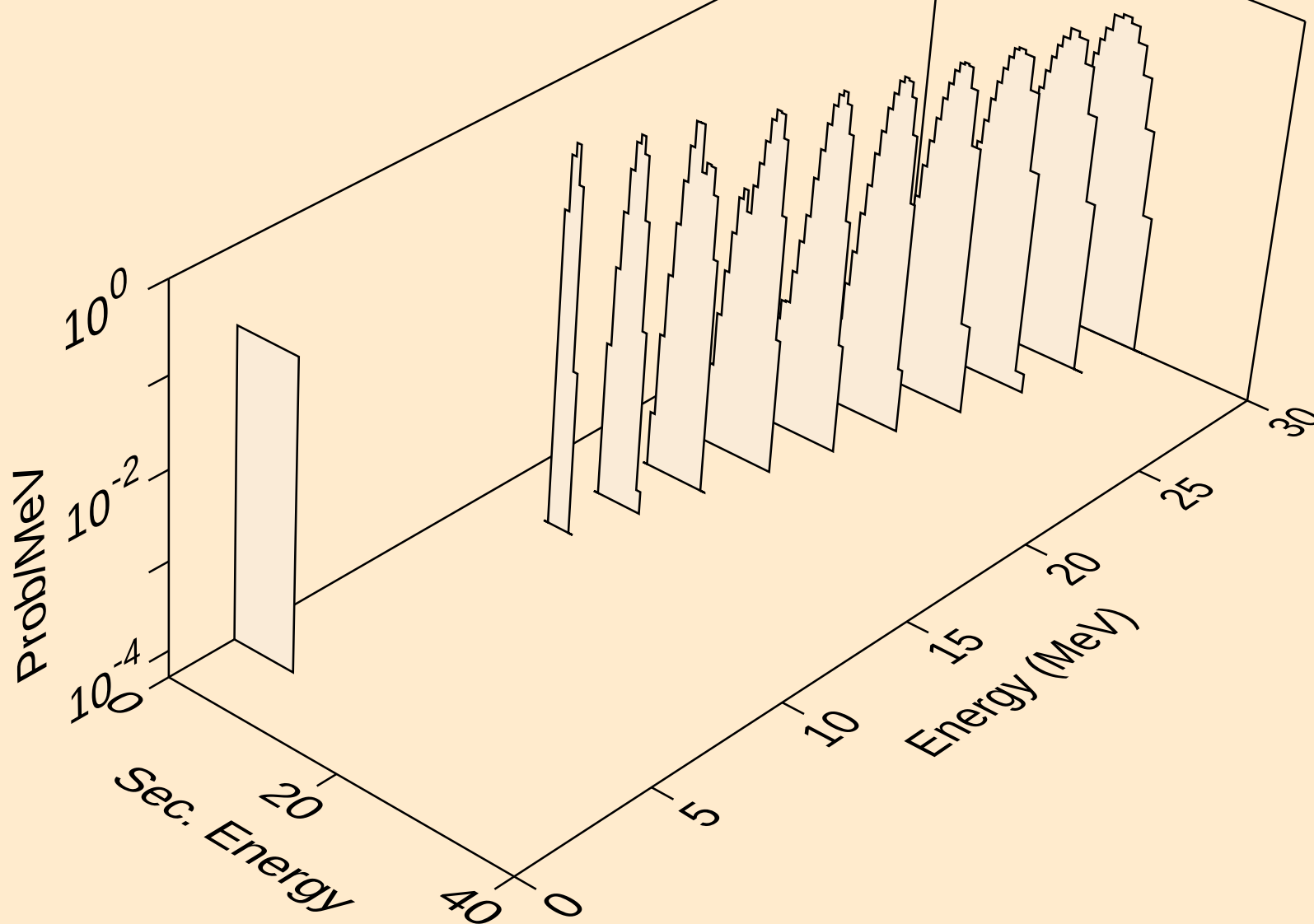




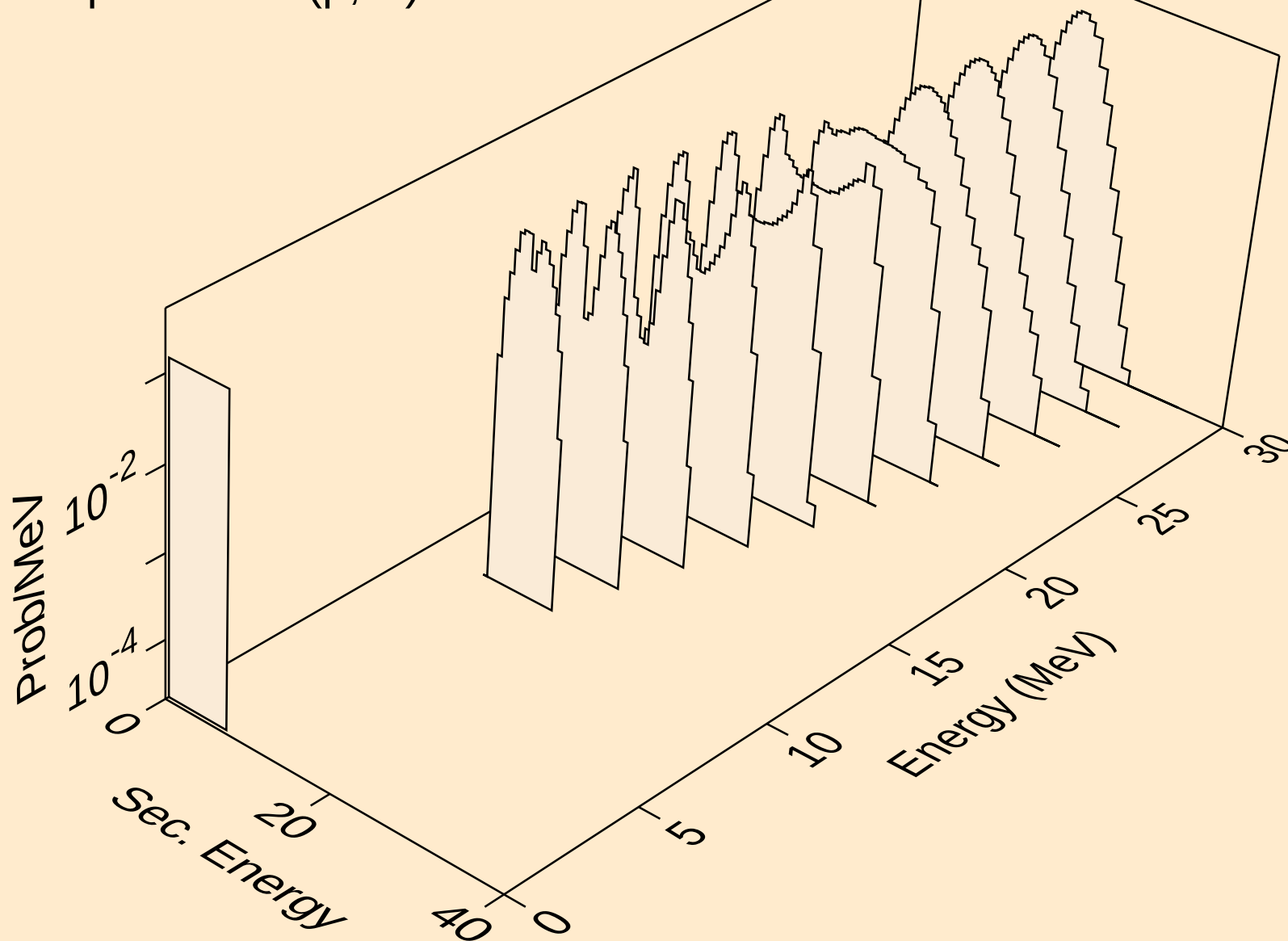
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



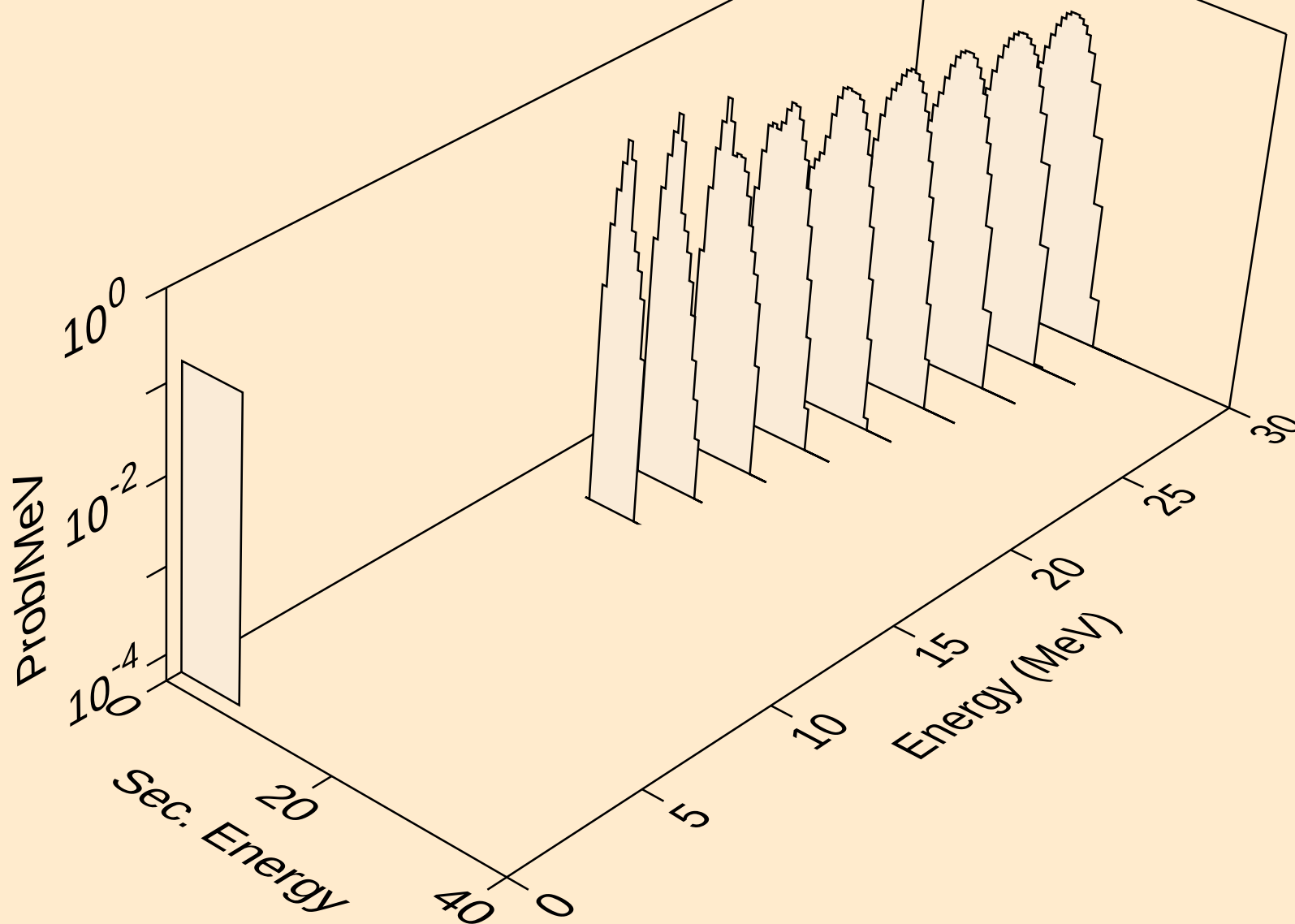
FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



FR228 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)

