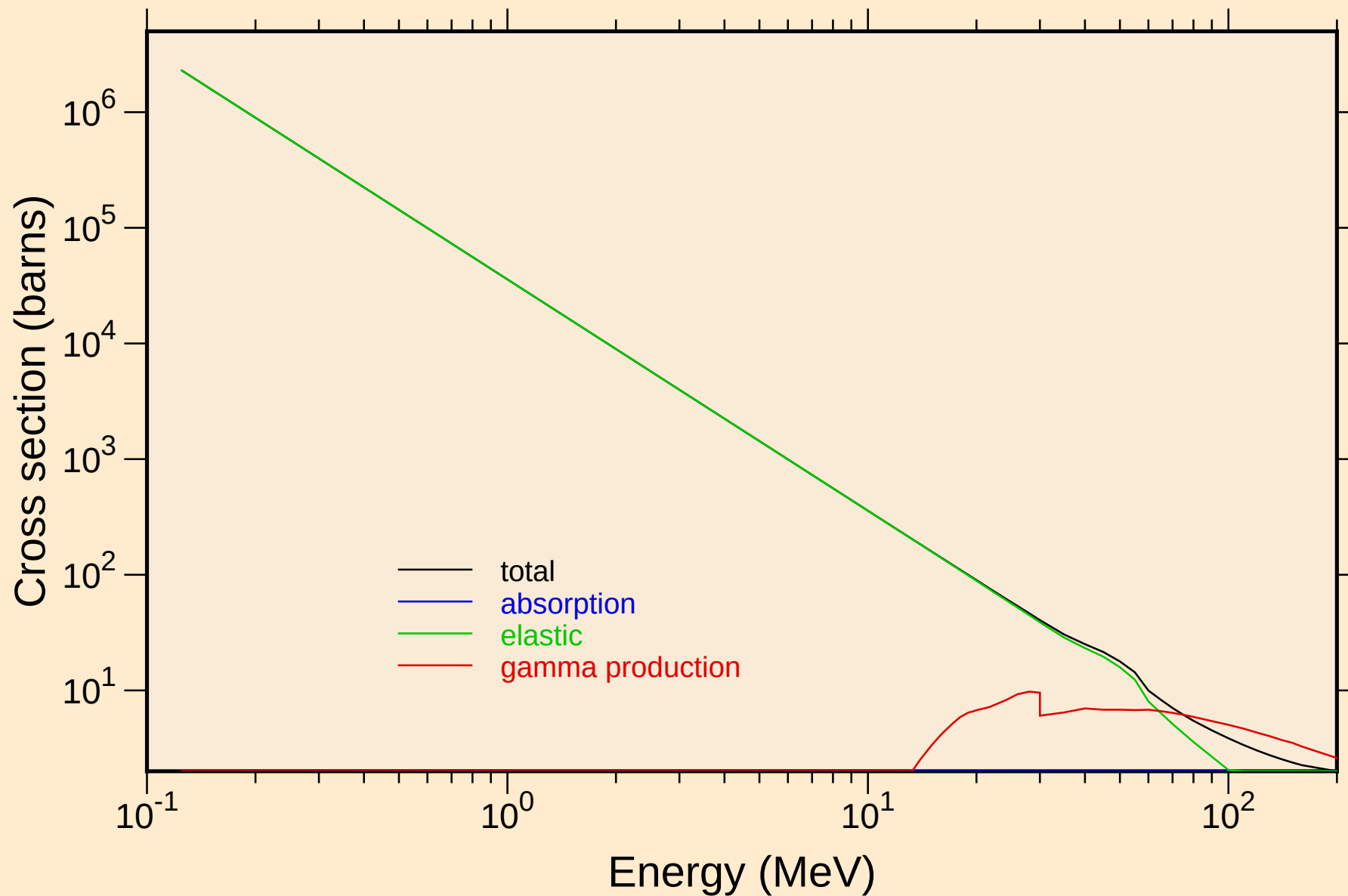


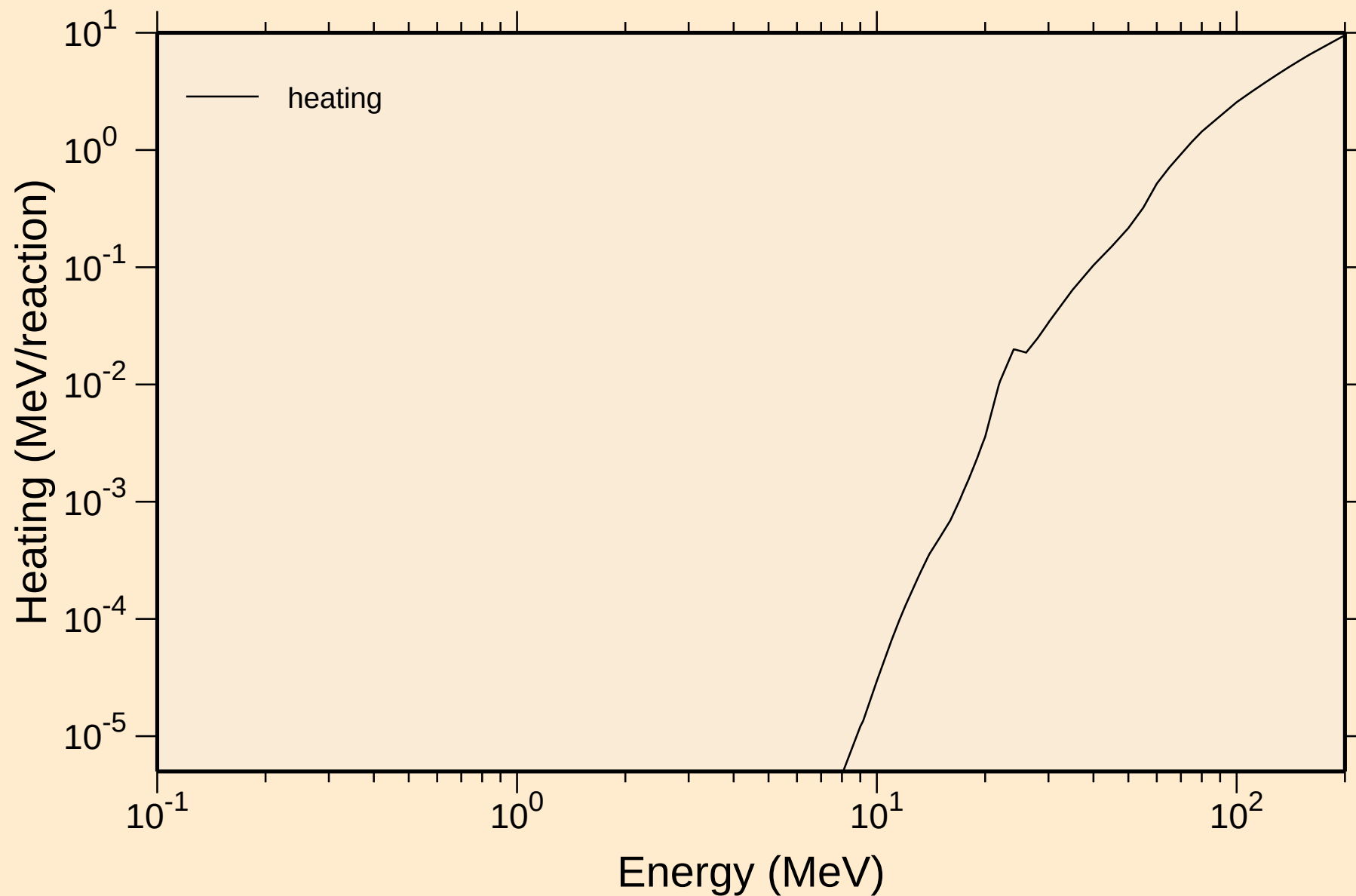
# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



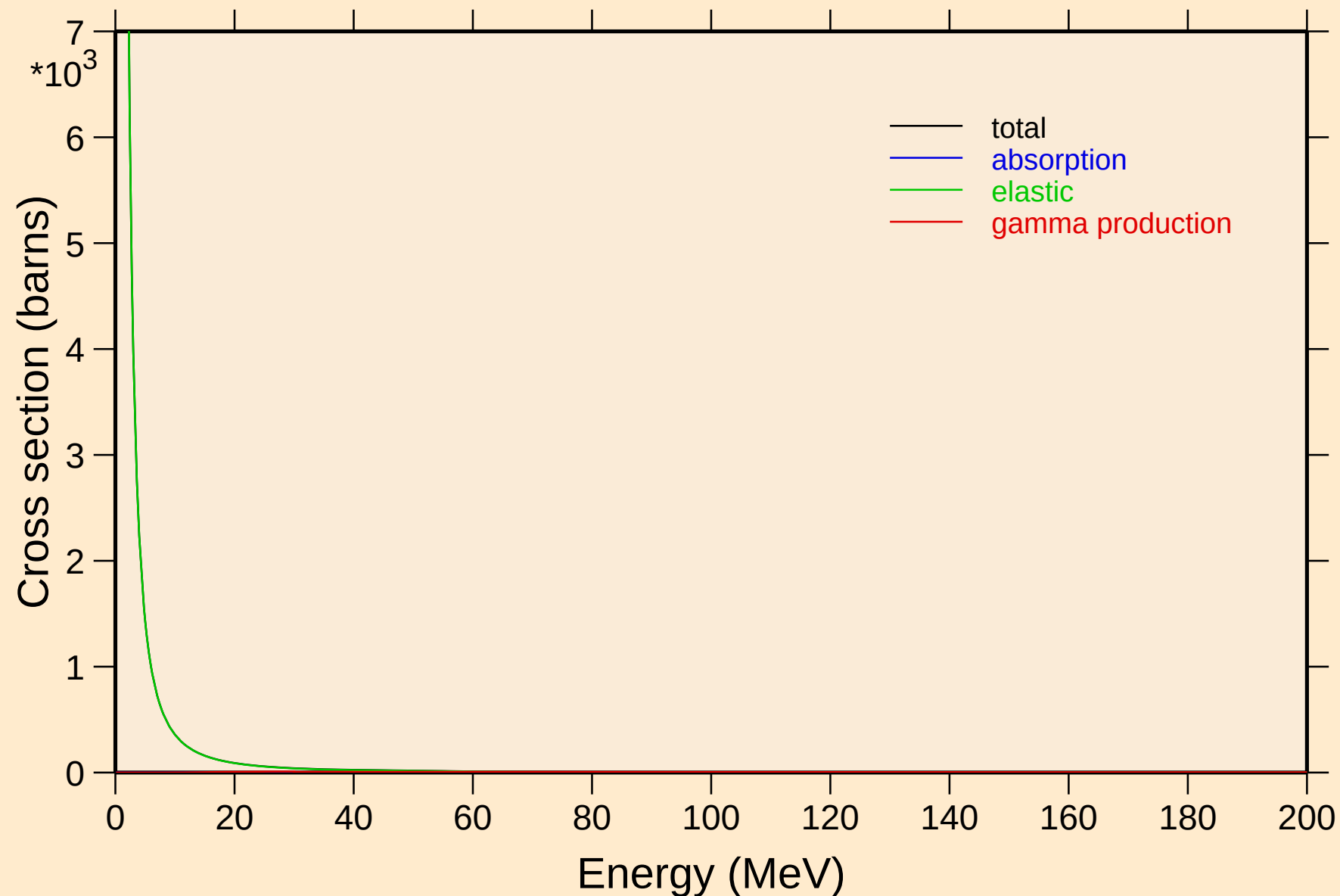
# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating



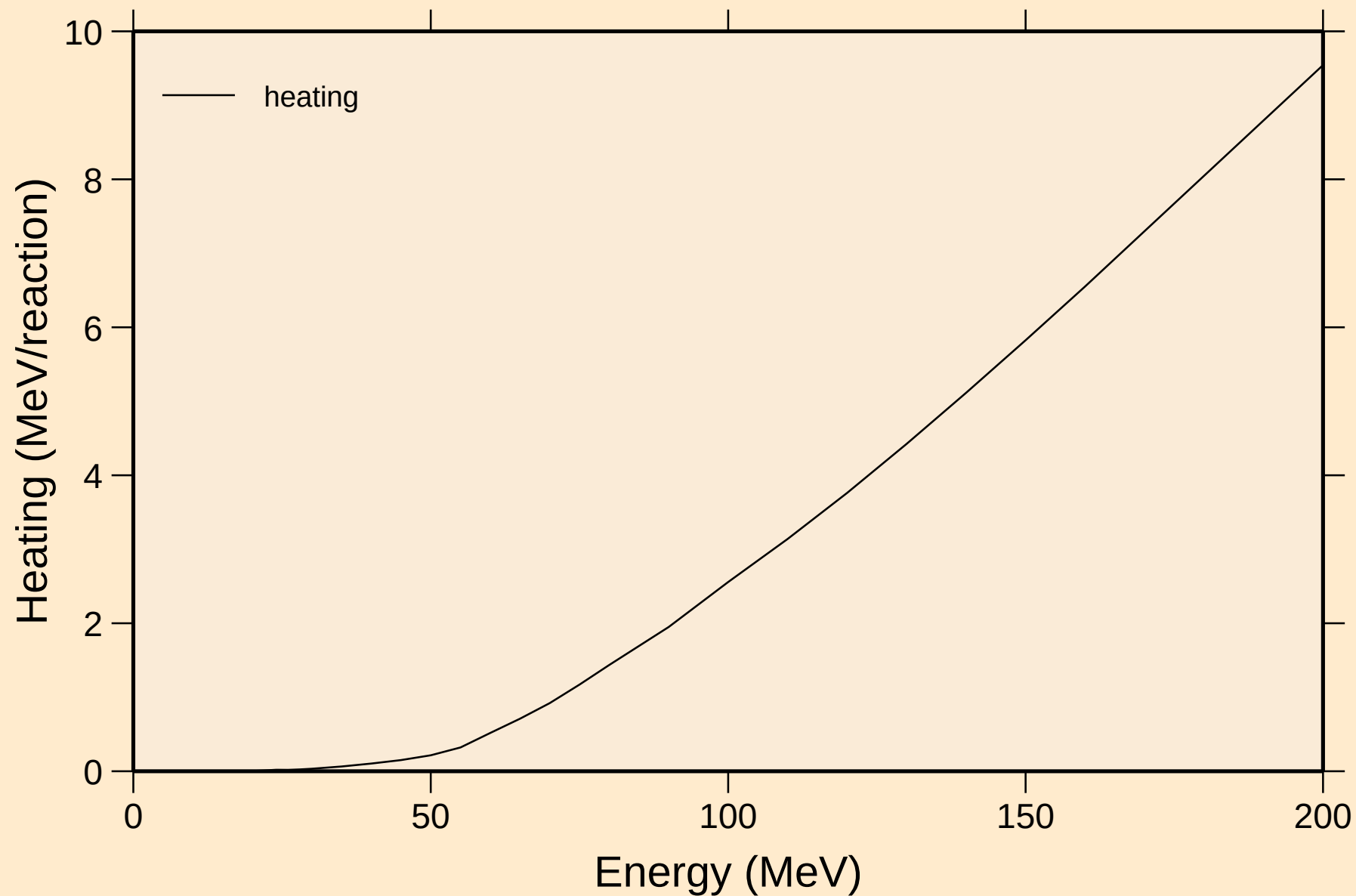
# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



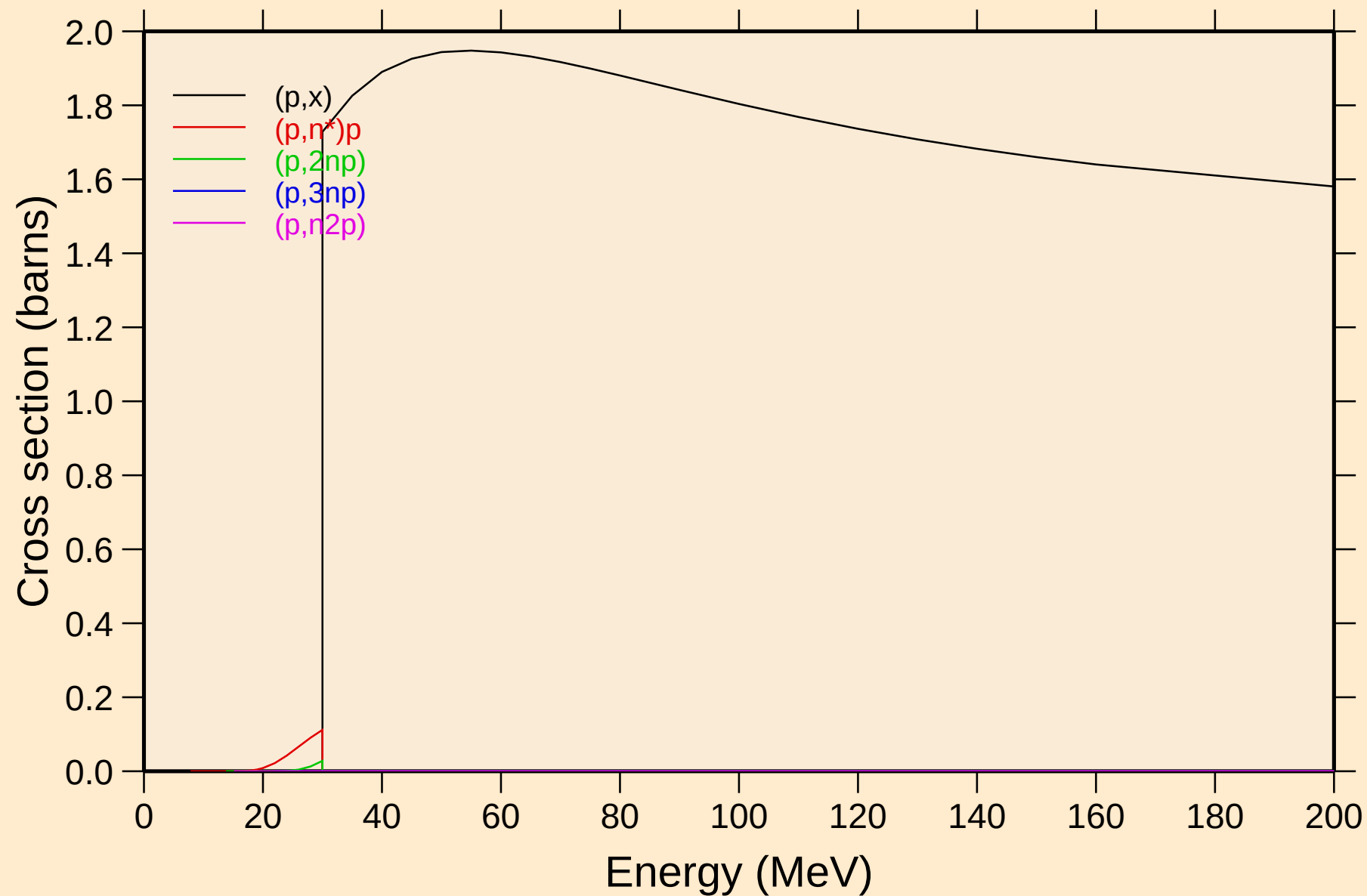
# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Heating

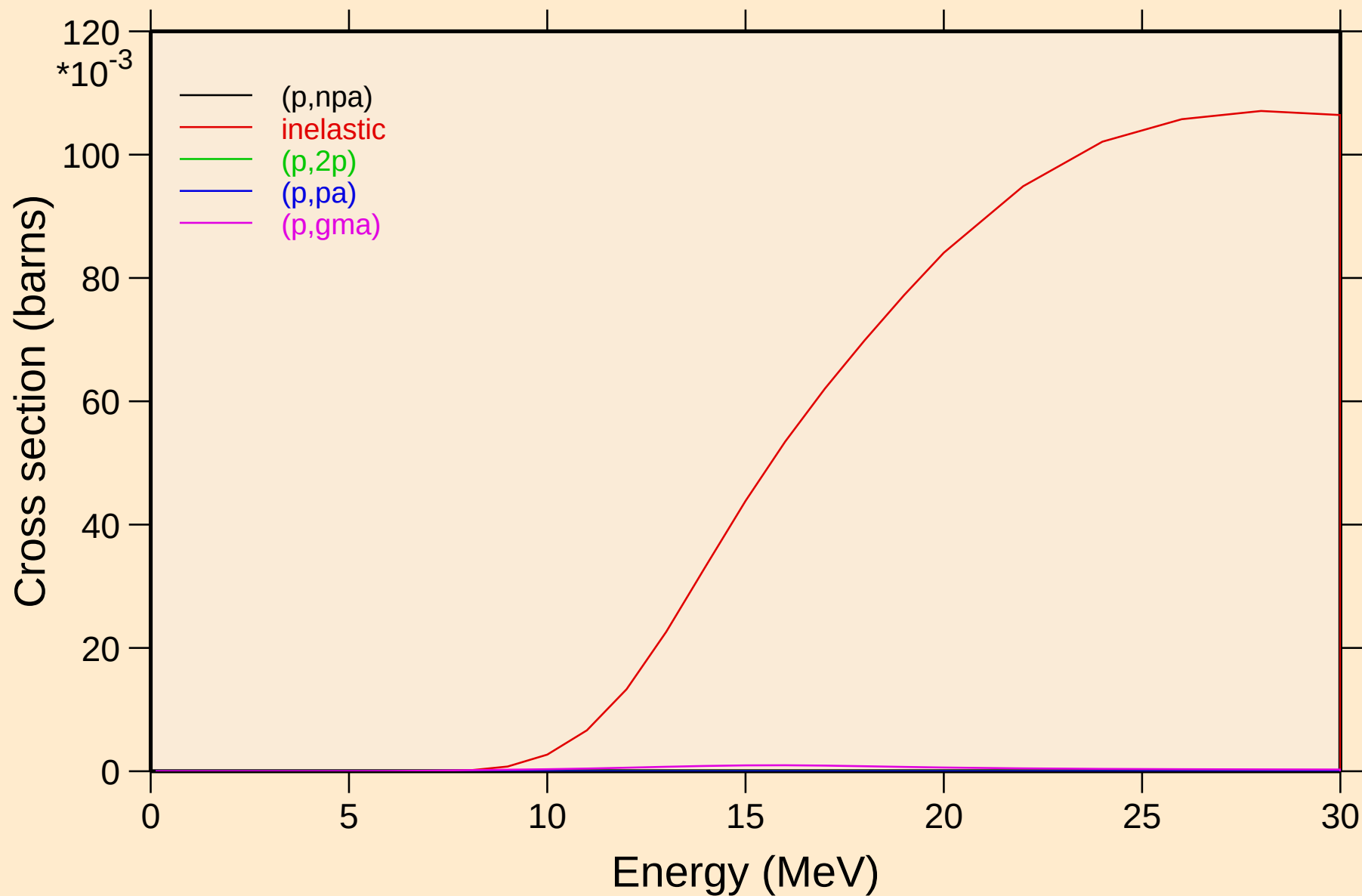


# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

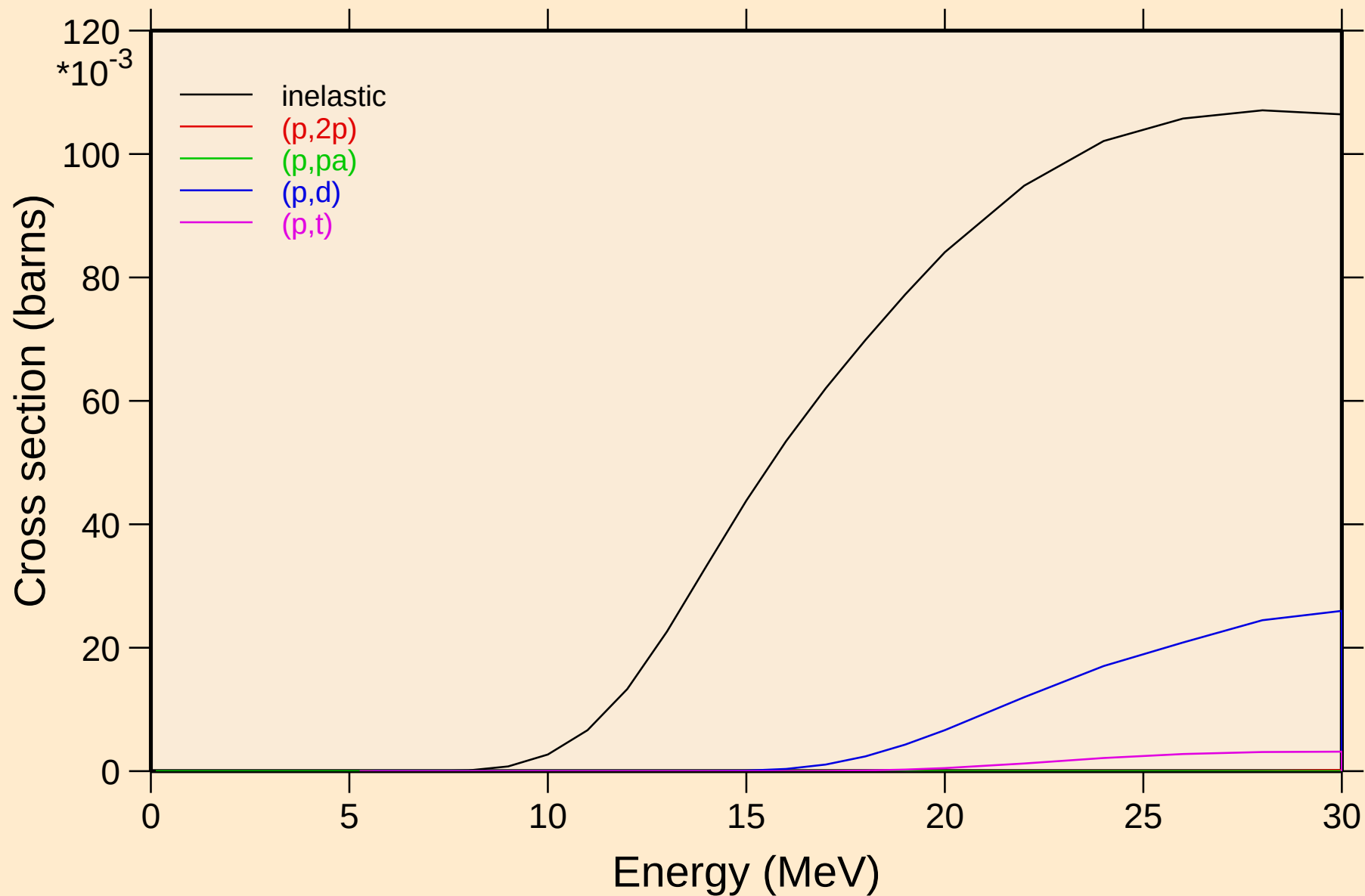
Threshold reactions



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

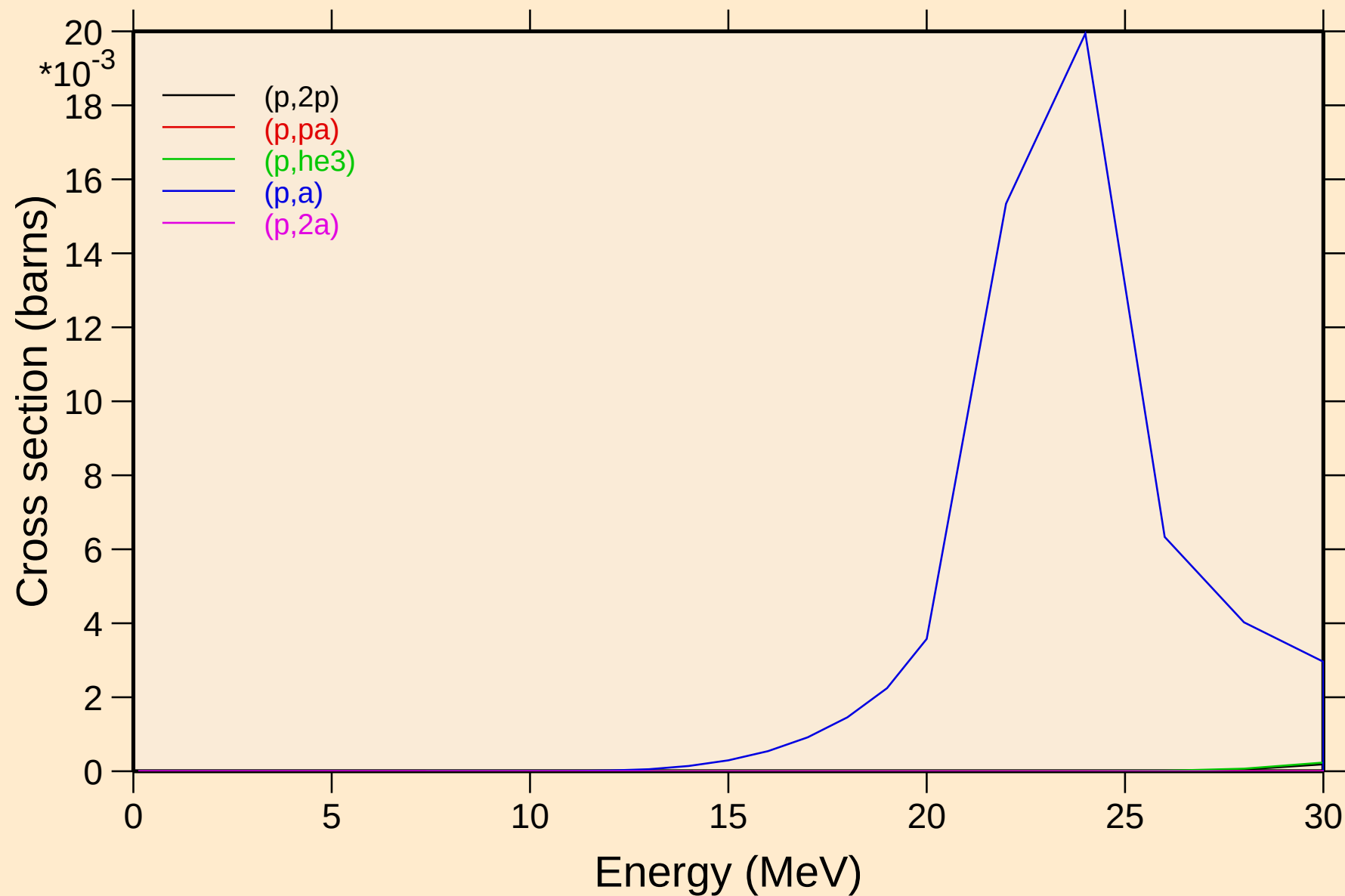


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

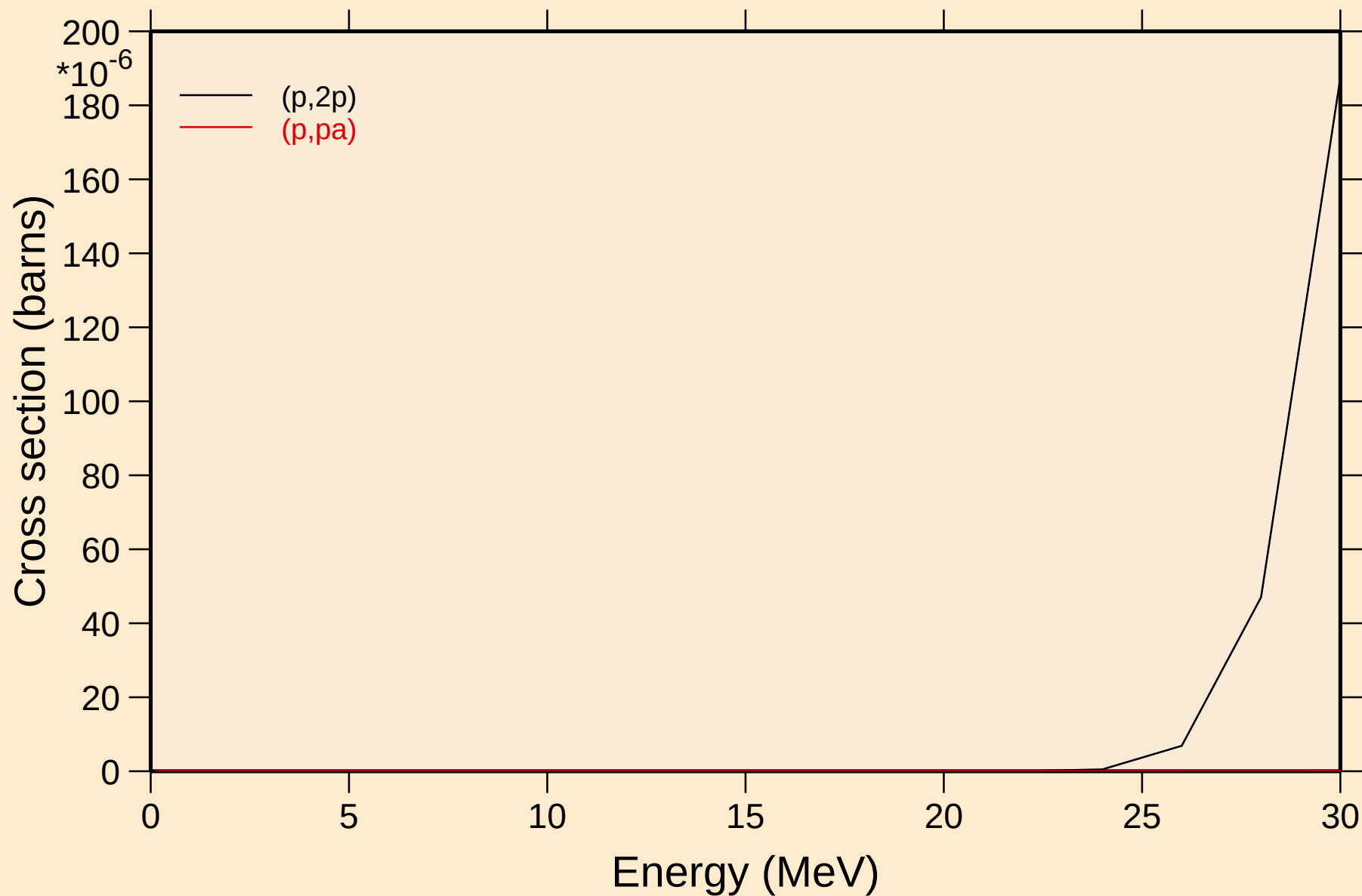
Threshold reactions



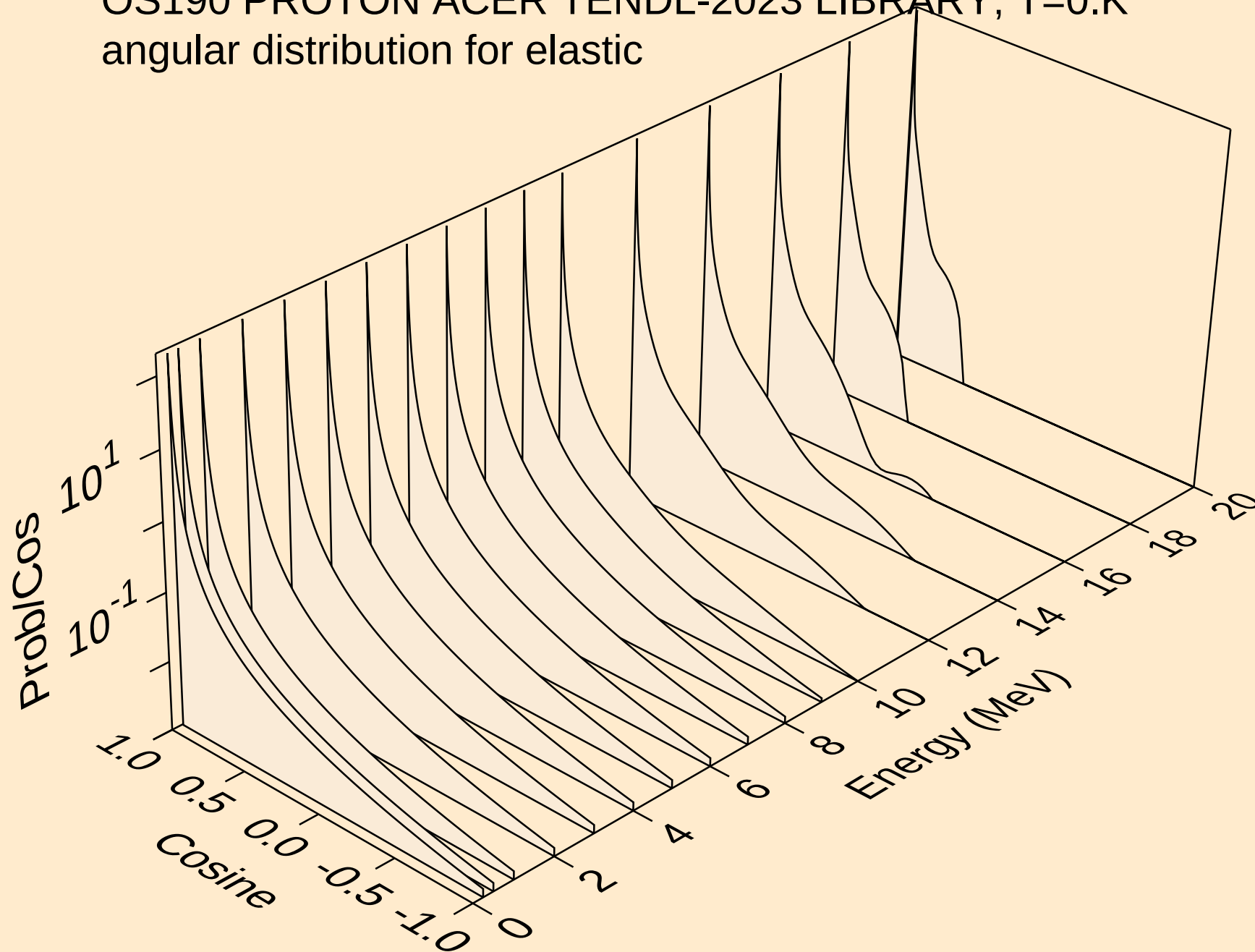


# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

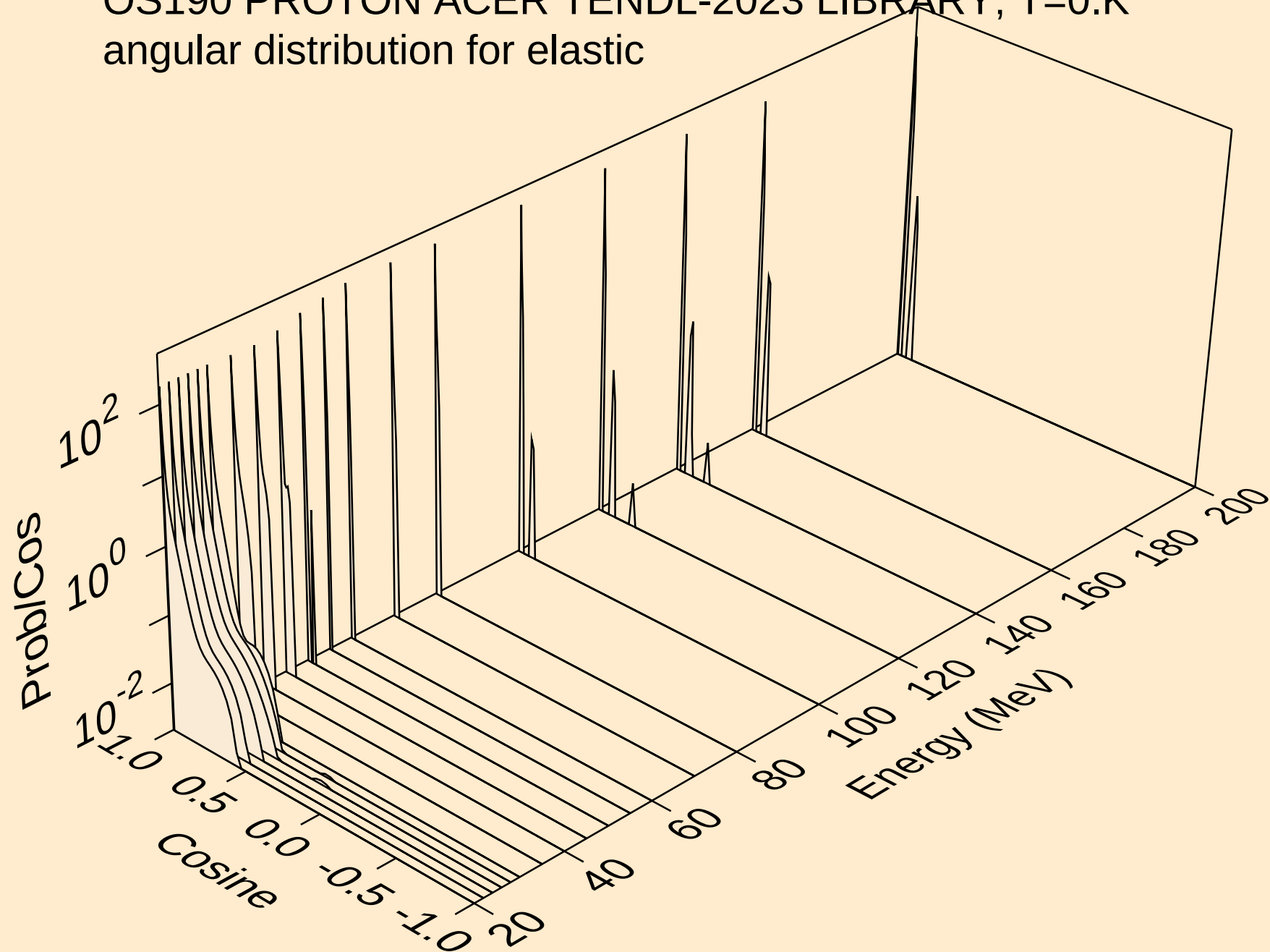
Threshold reactions



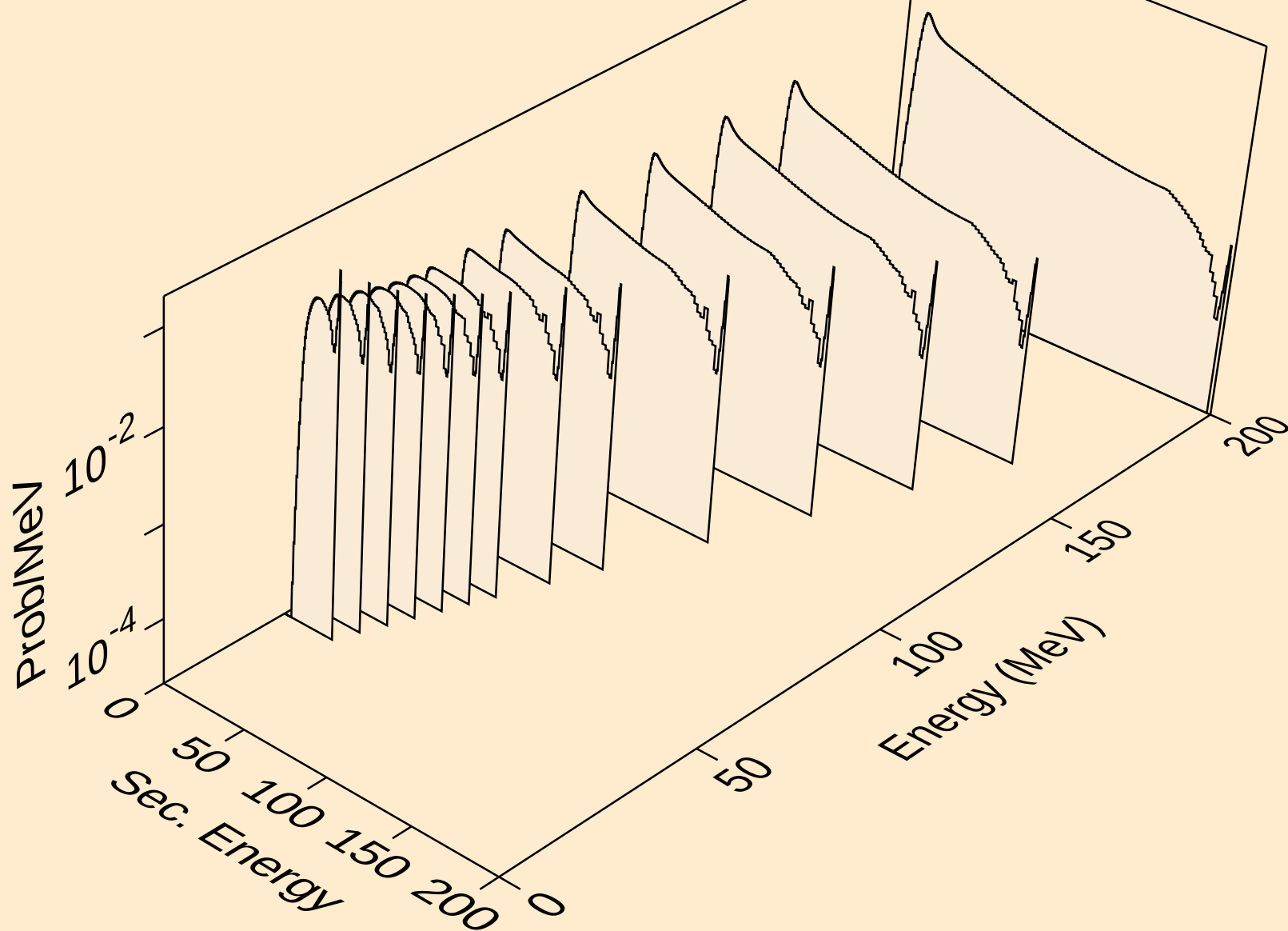
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

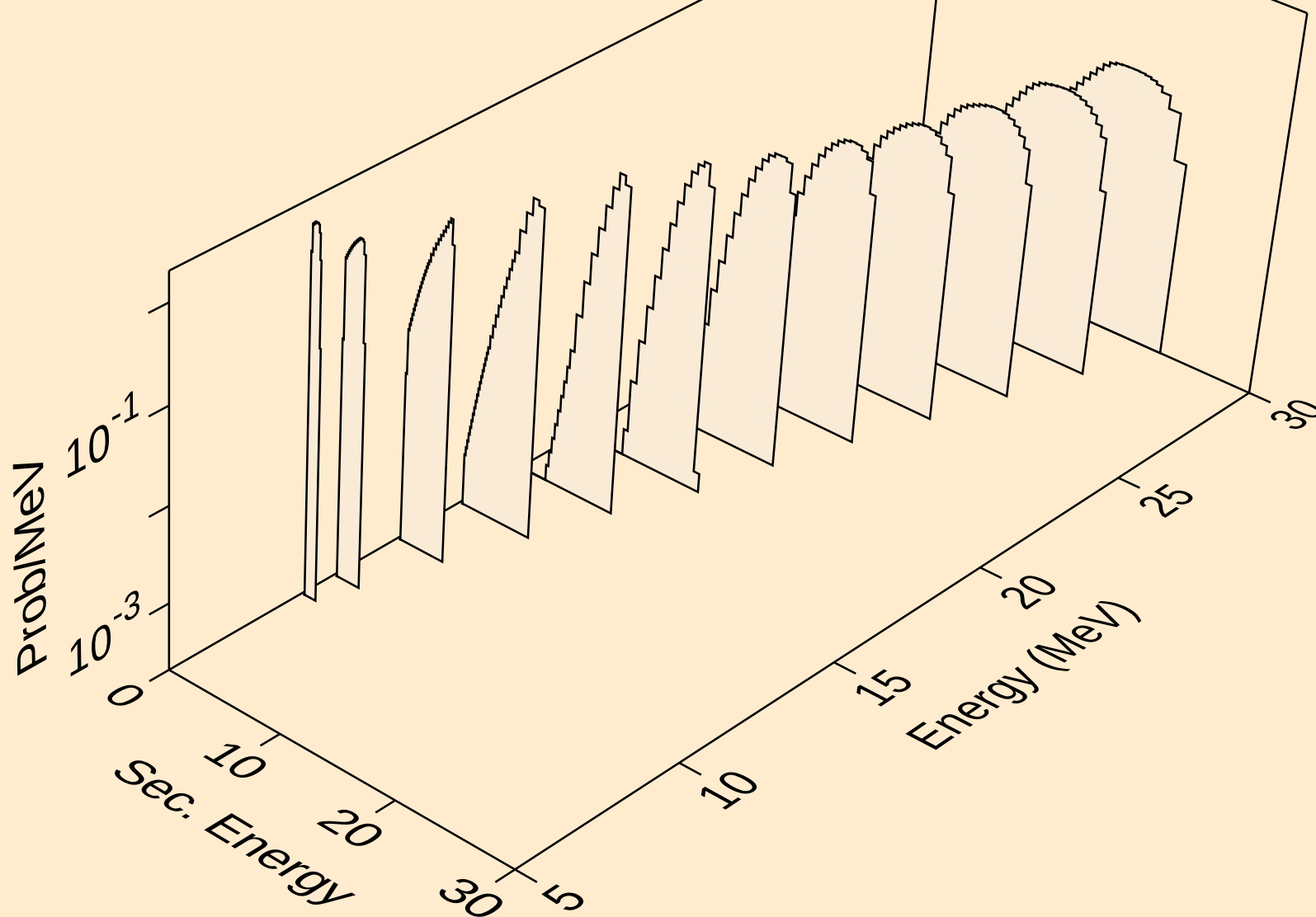


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)

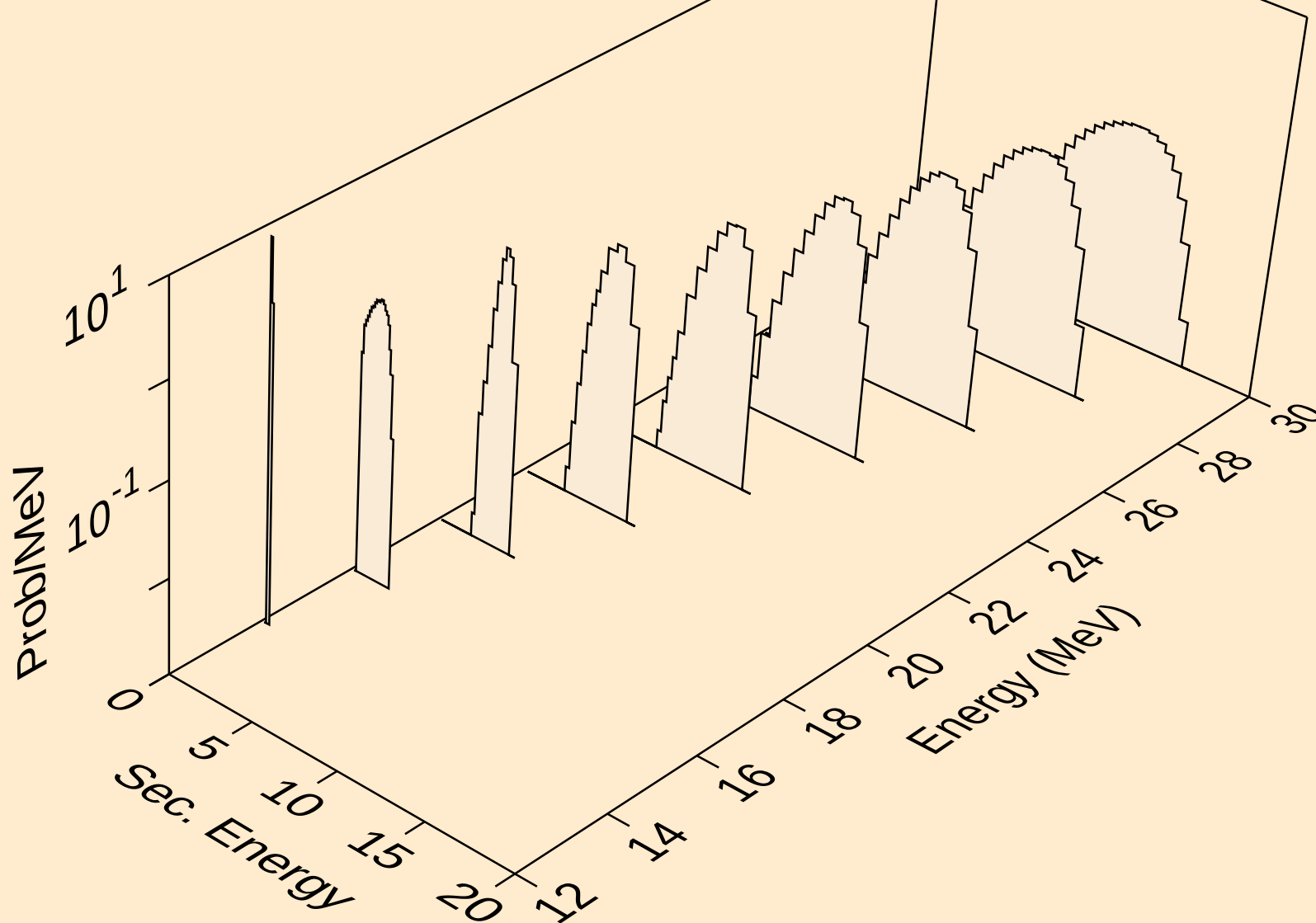


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

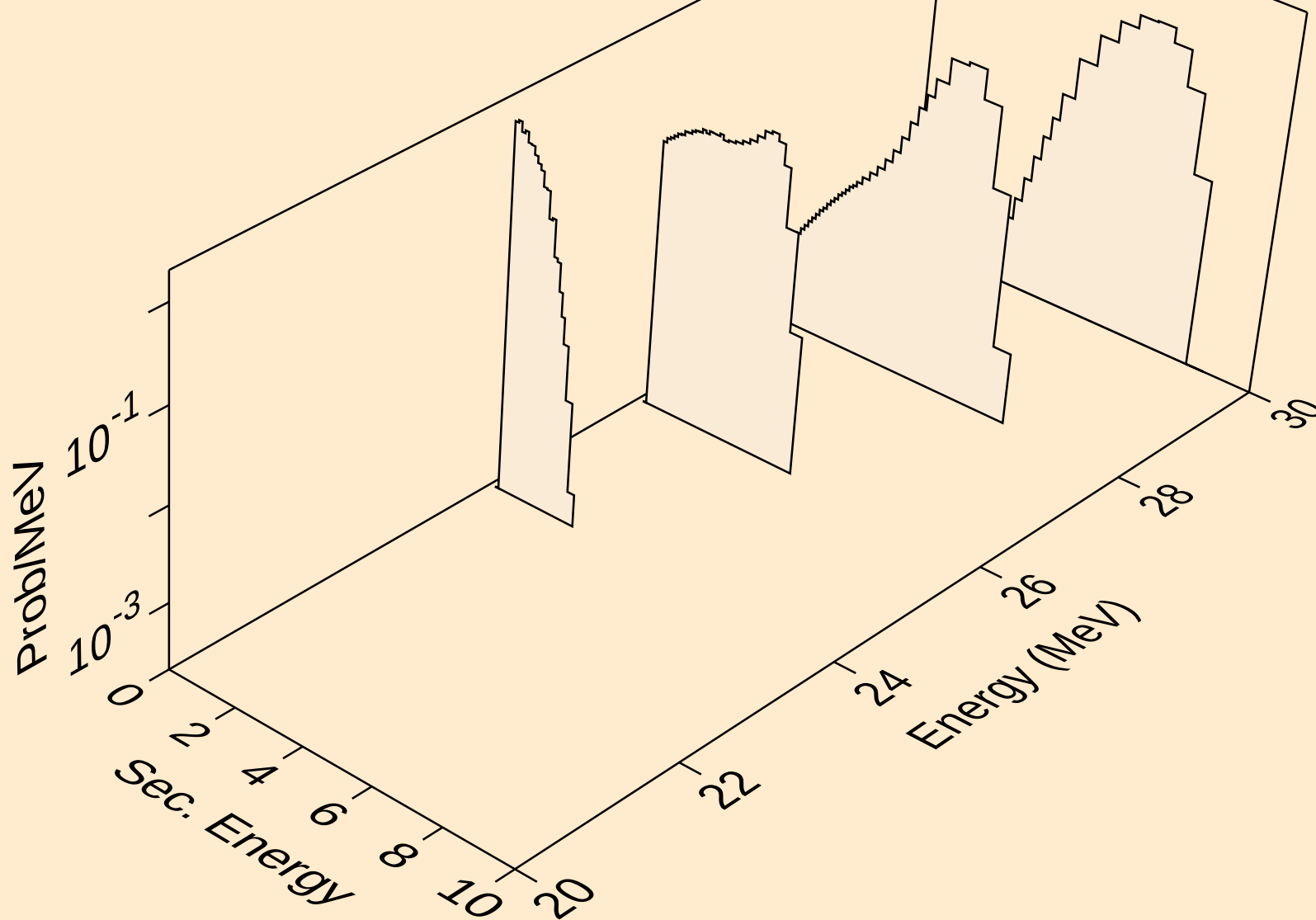
Proton emission for (p,n\*)p



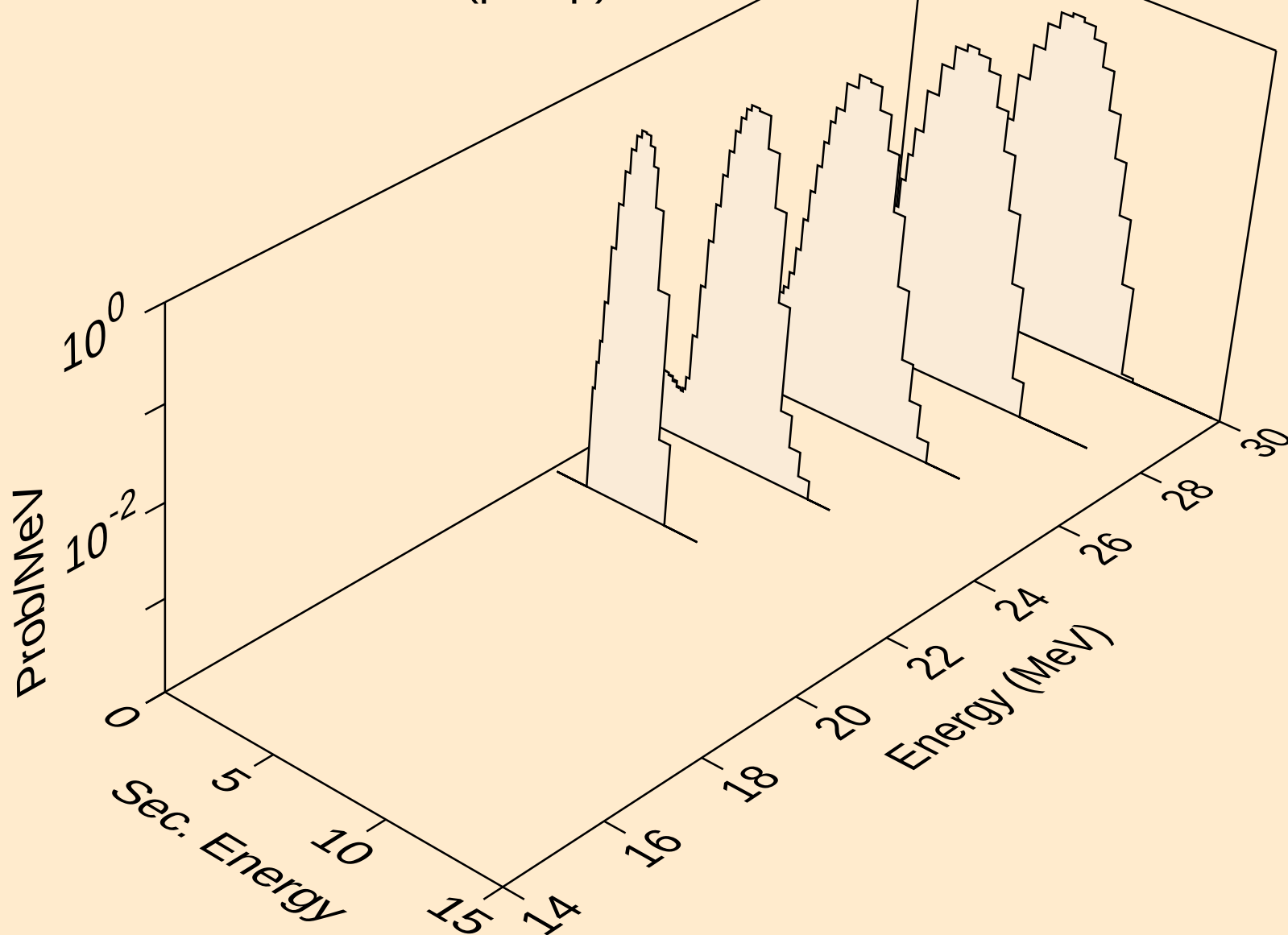
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,3np)

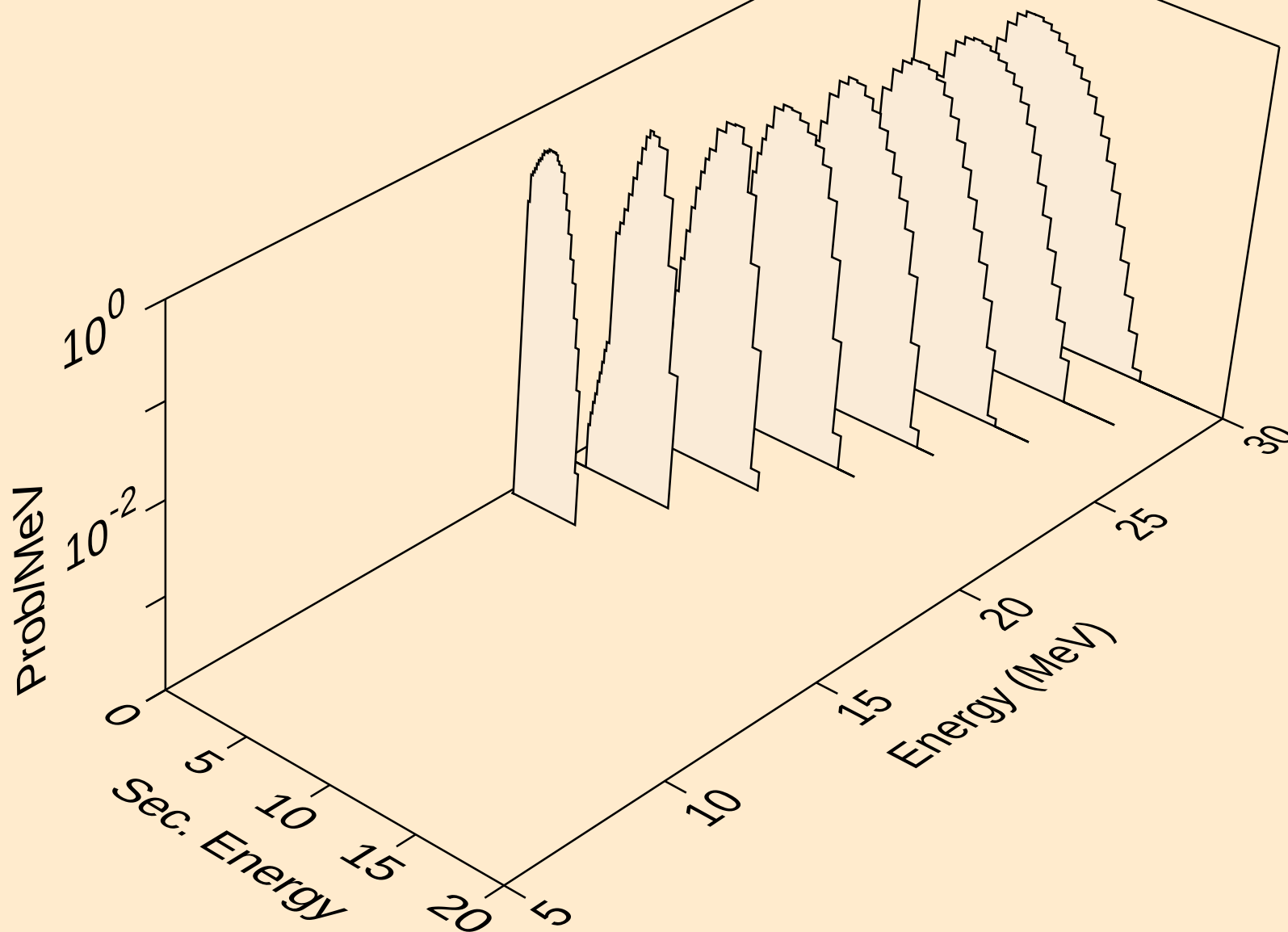


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)

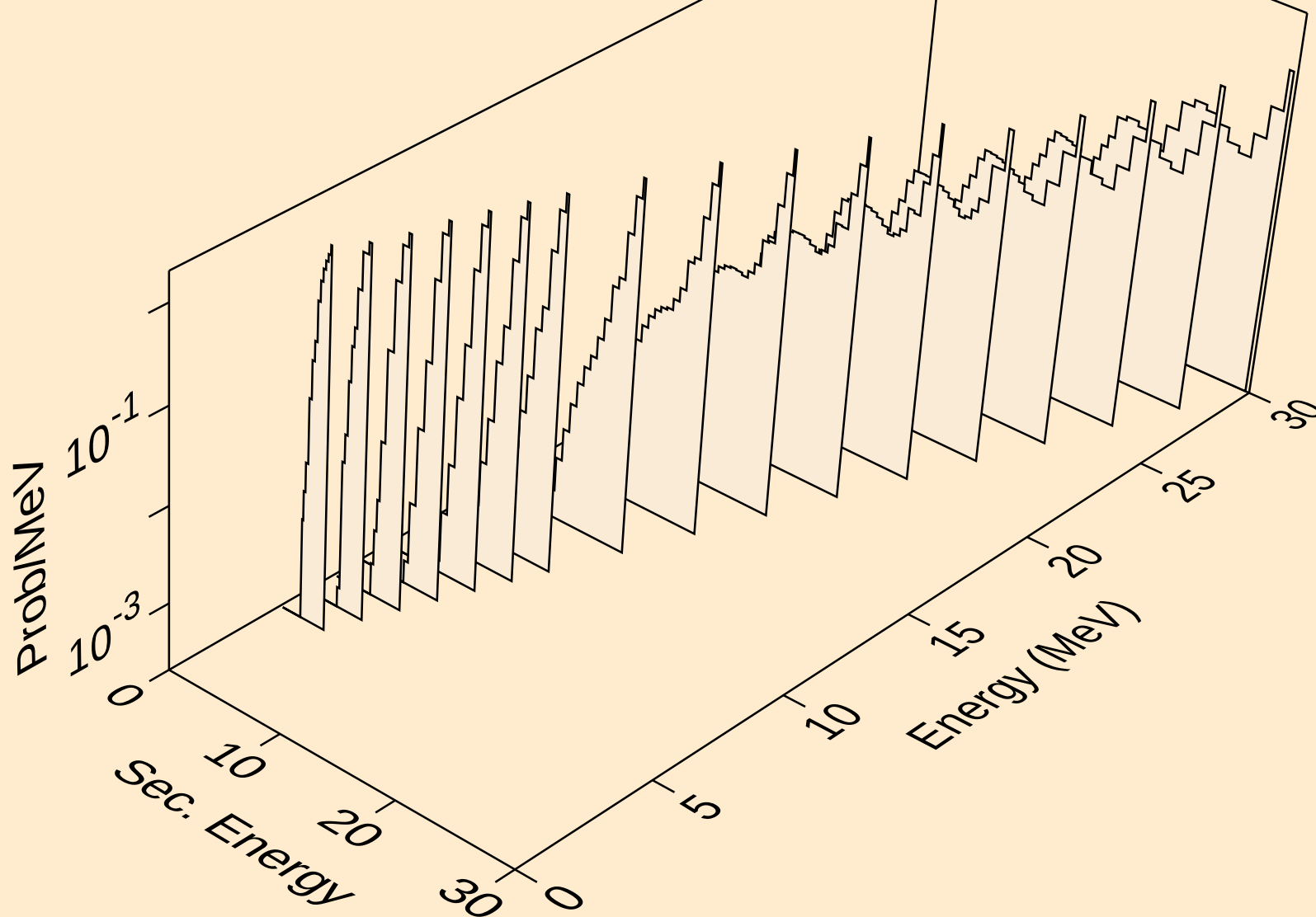




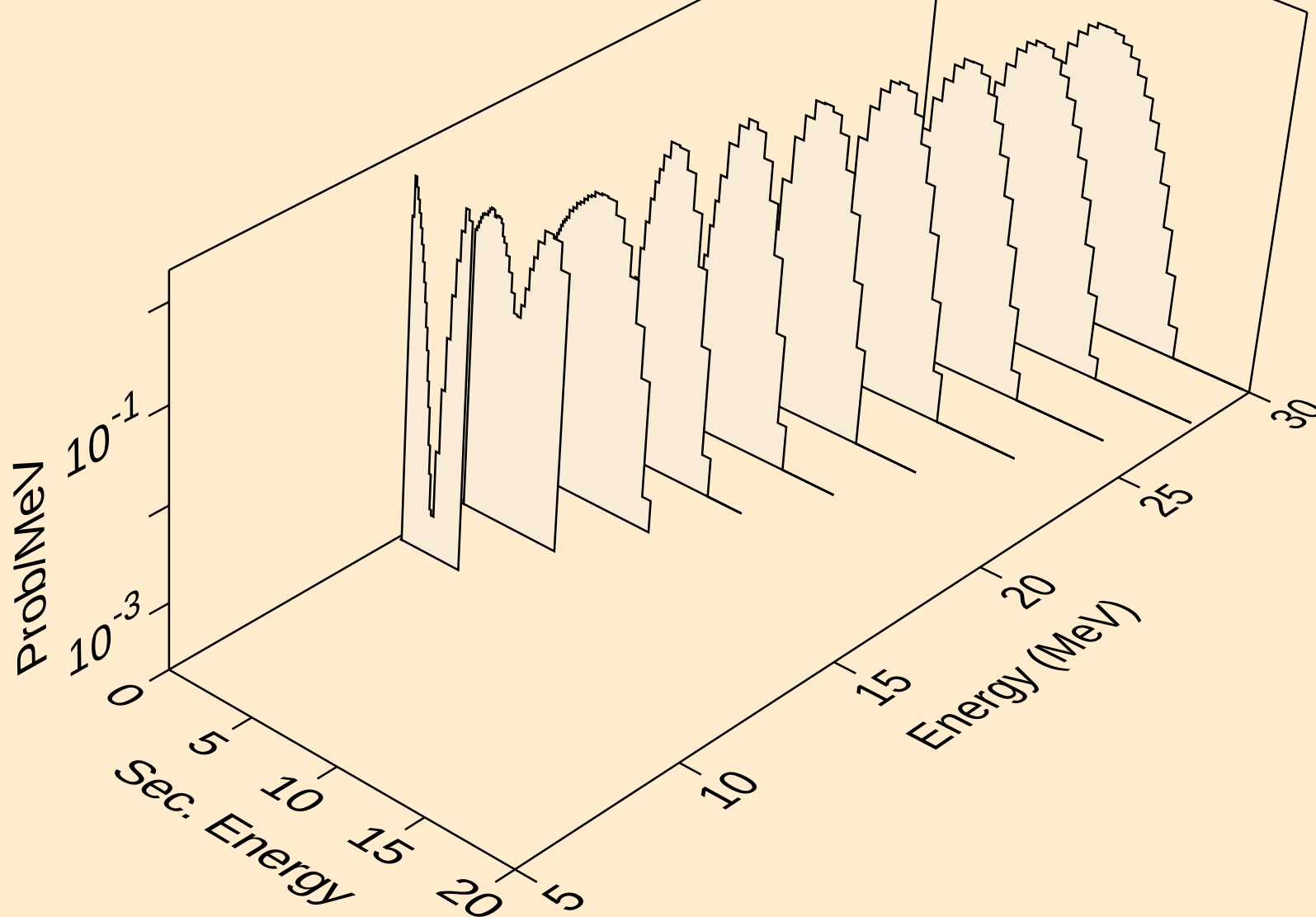
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



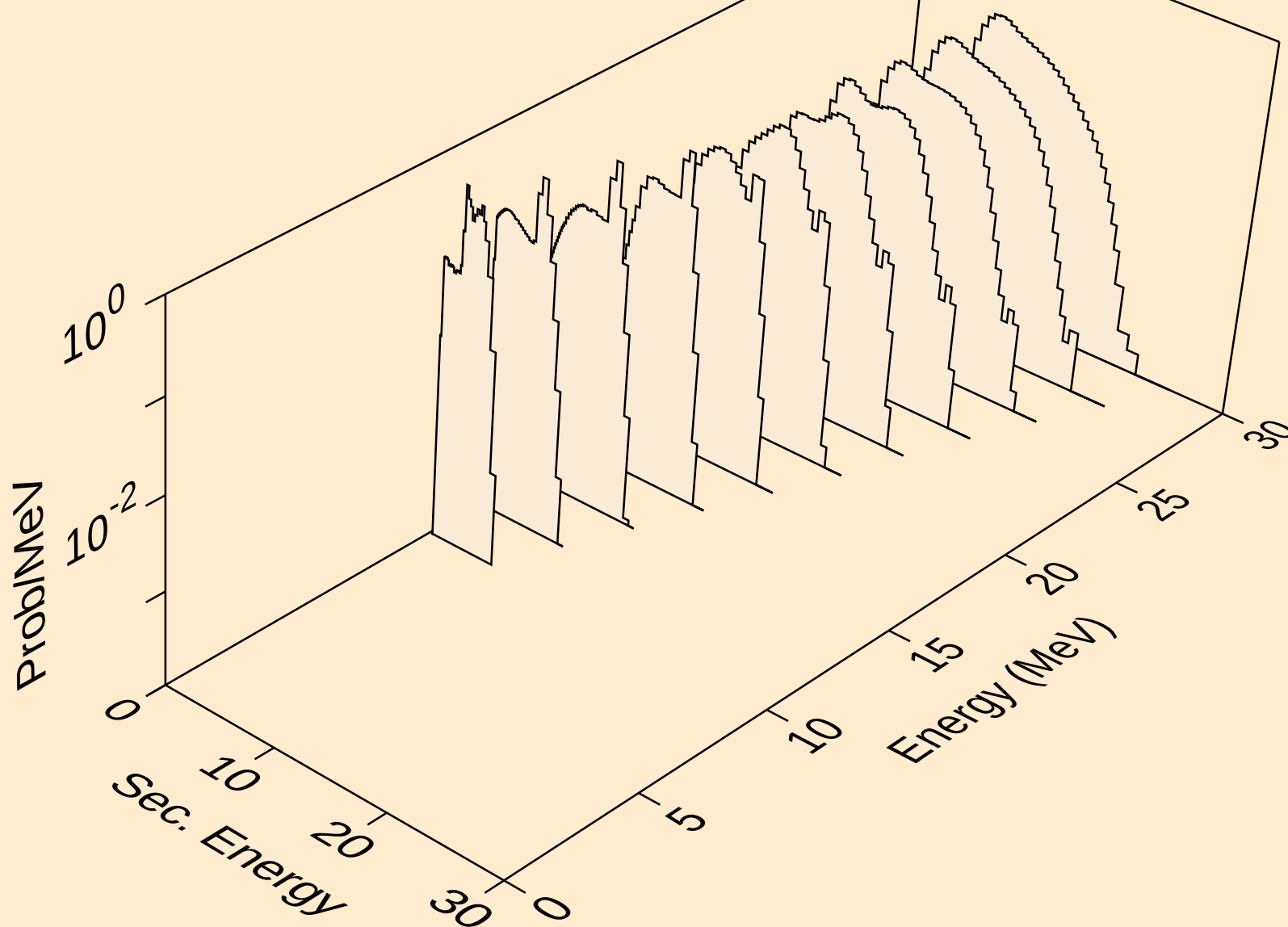
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic



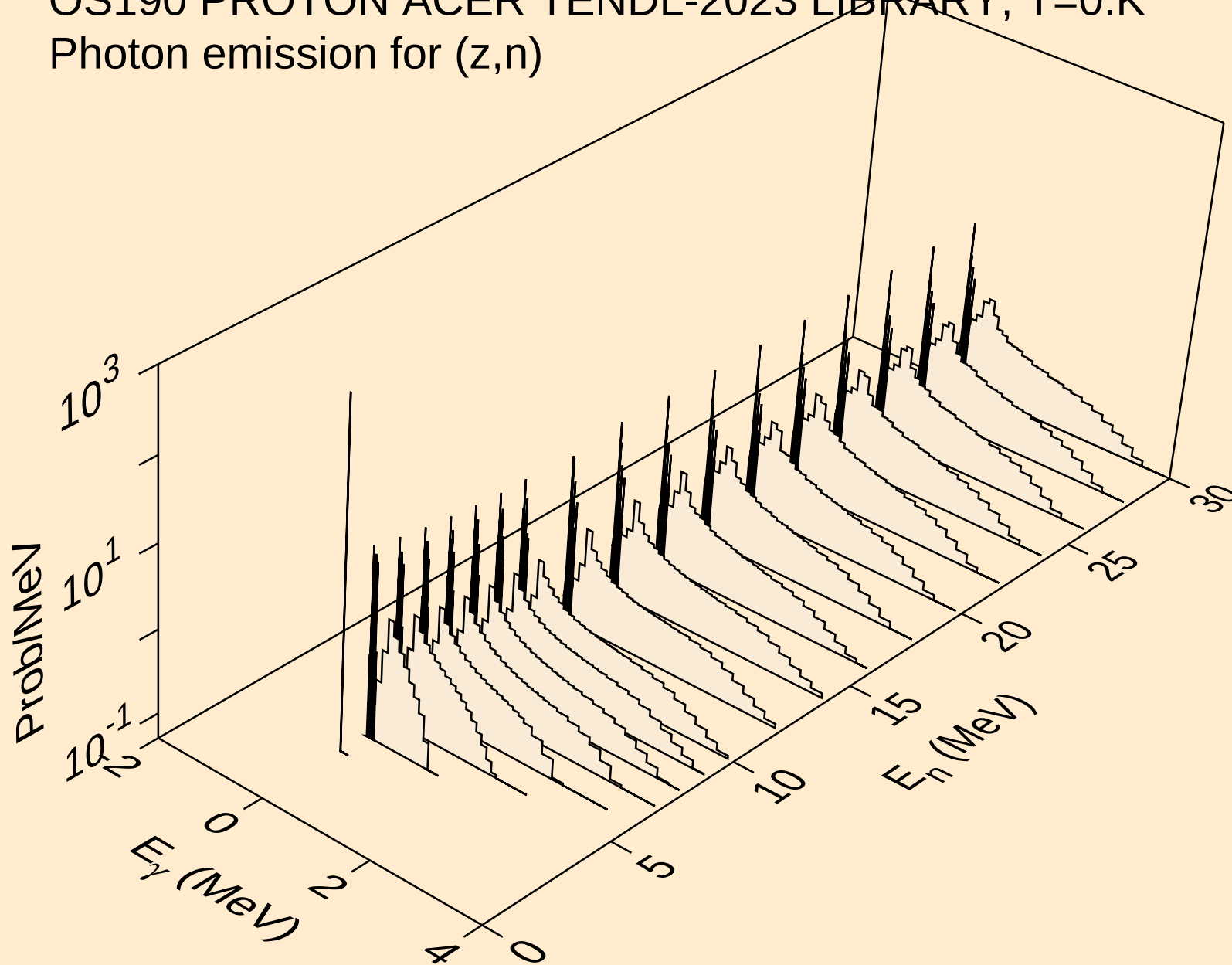
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)

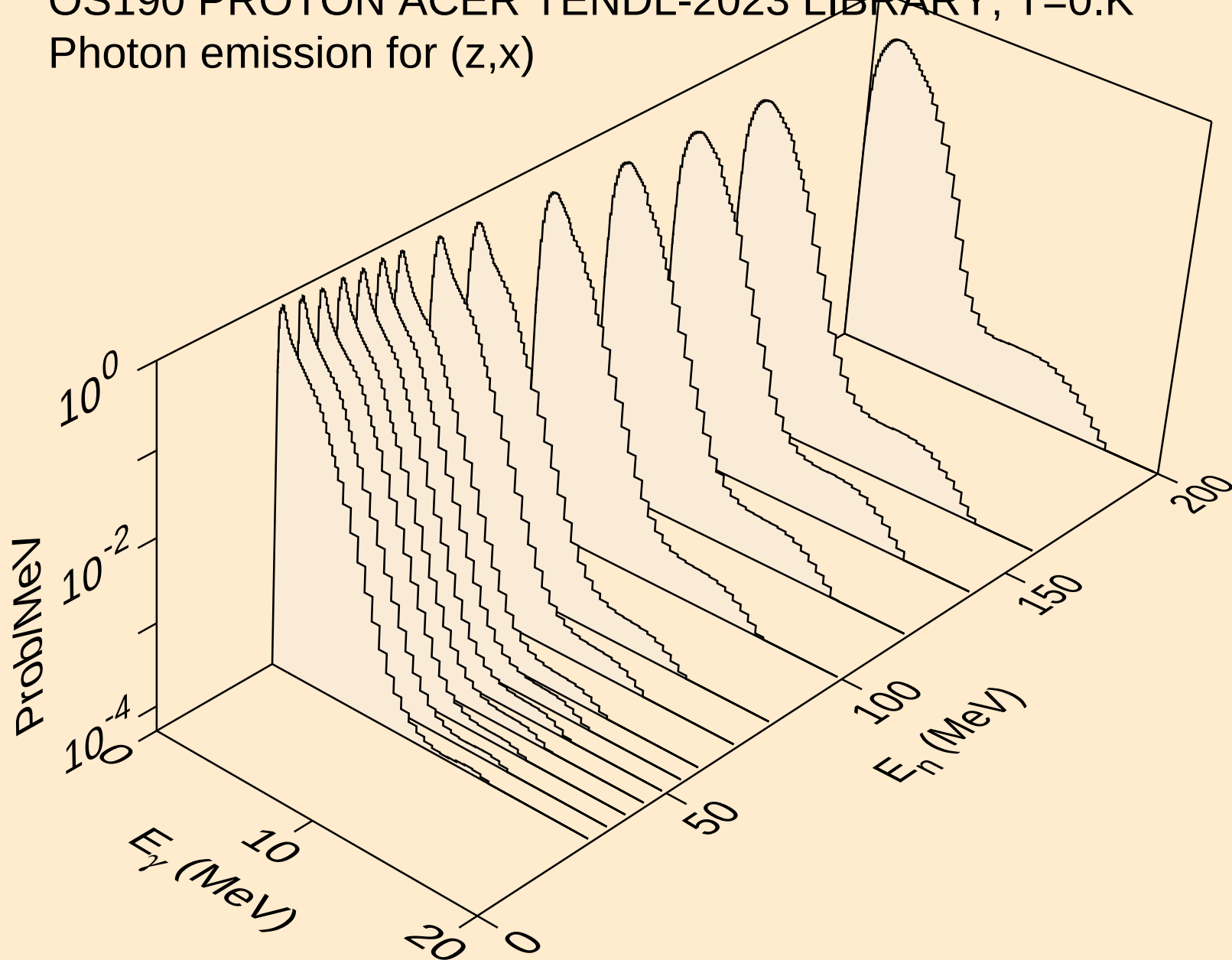


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)

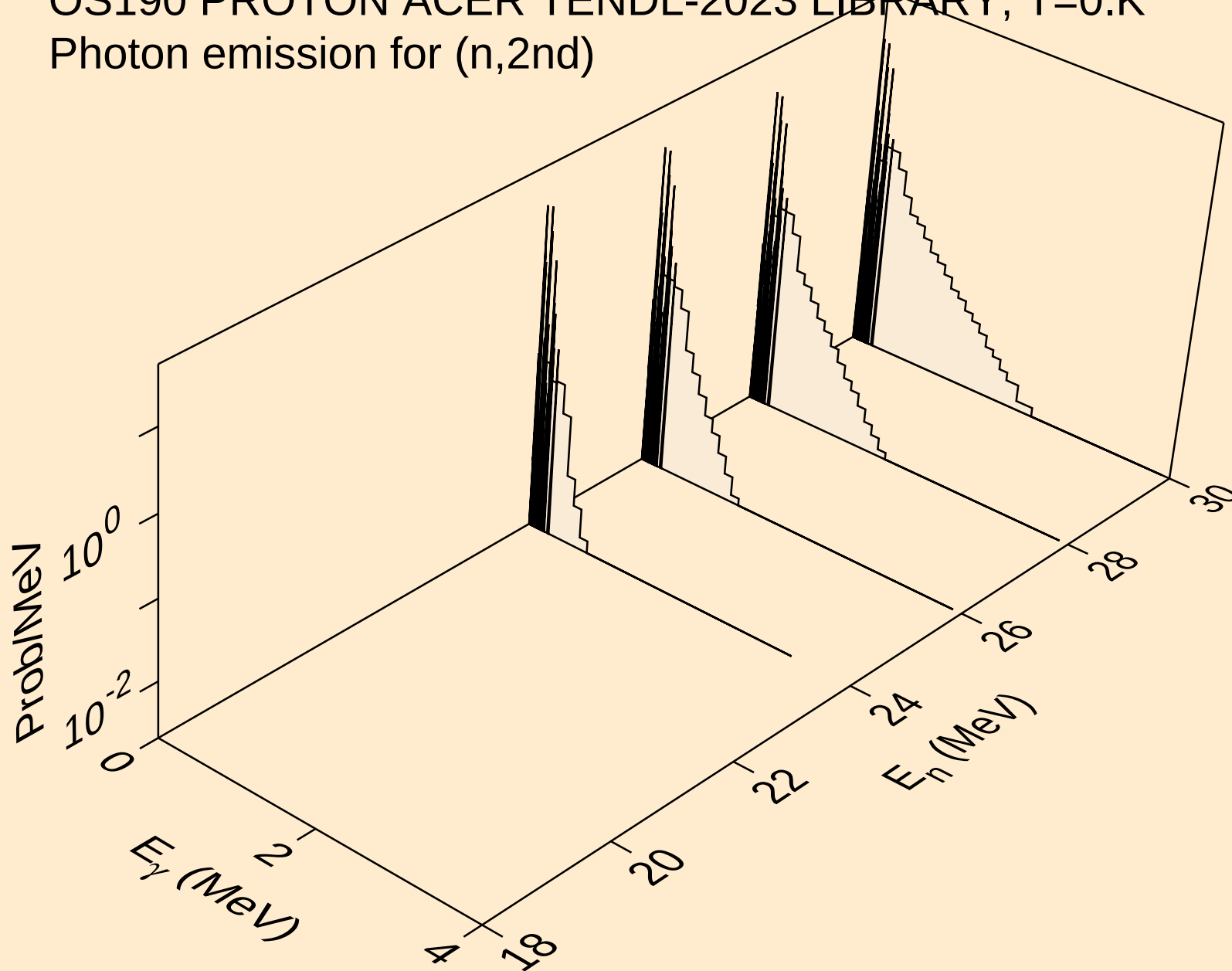


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

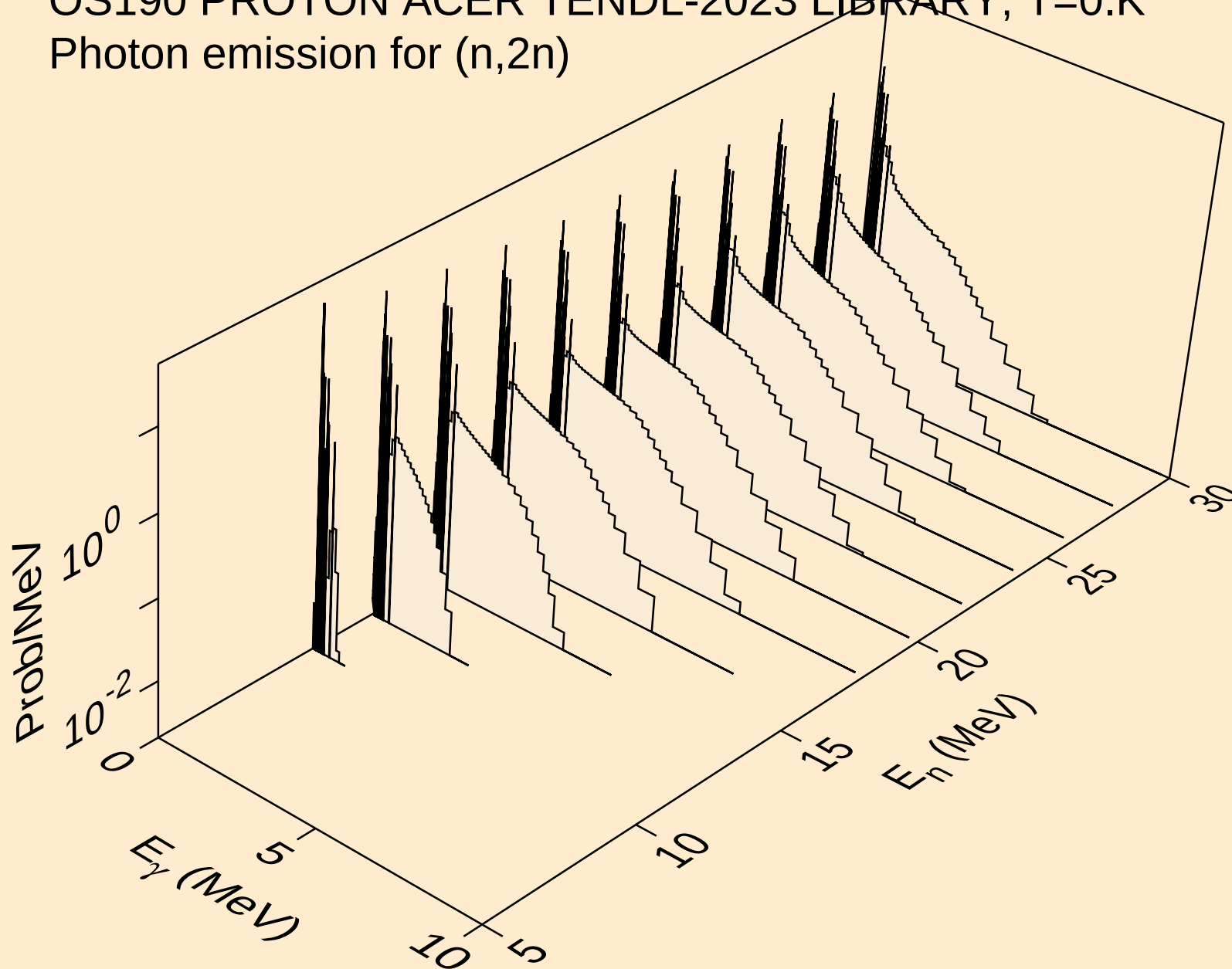
Photon emission for (z,x)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)

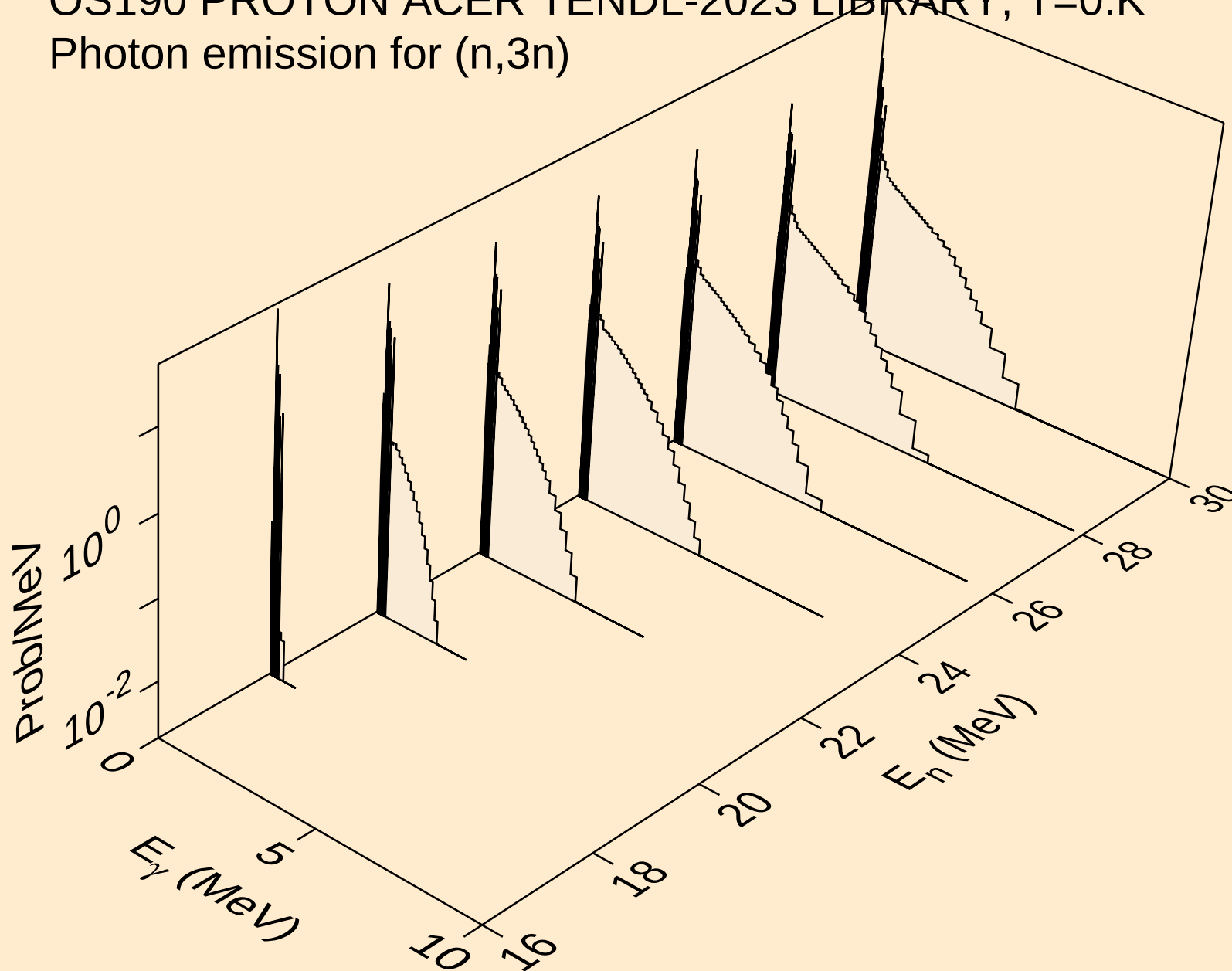


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



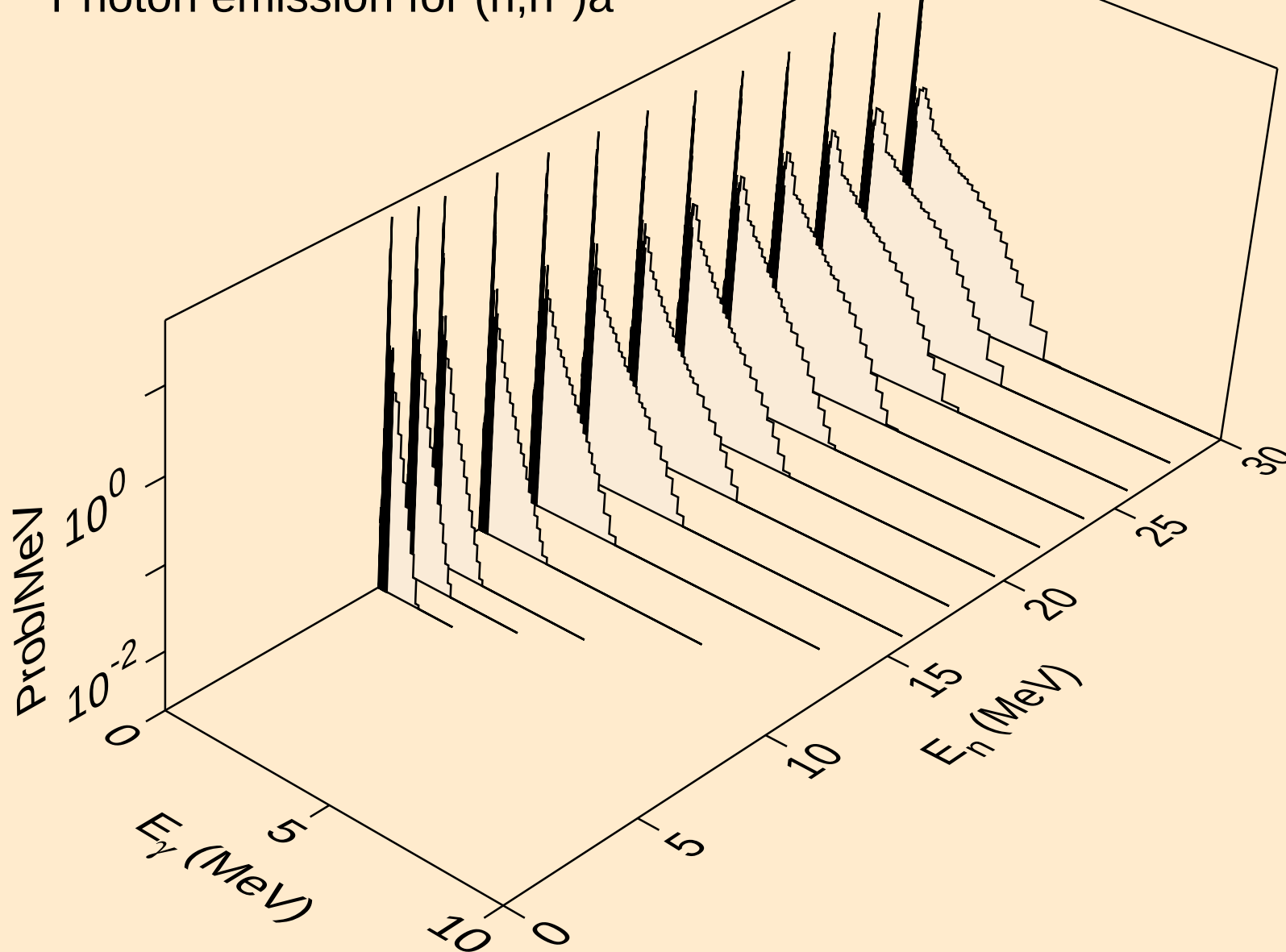


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



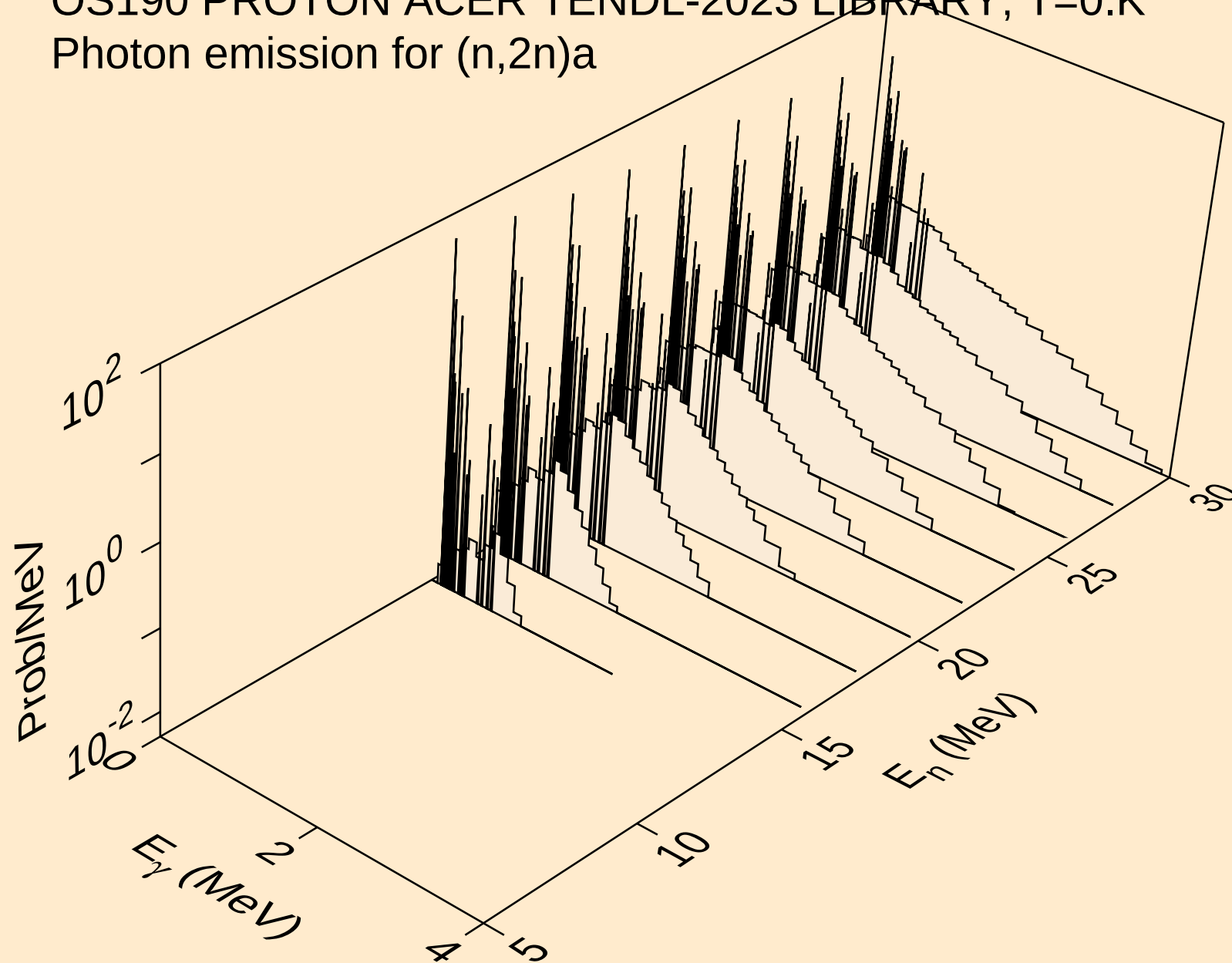
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)a

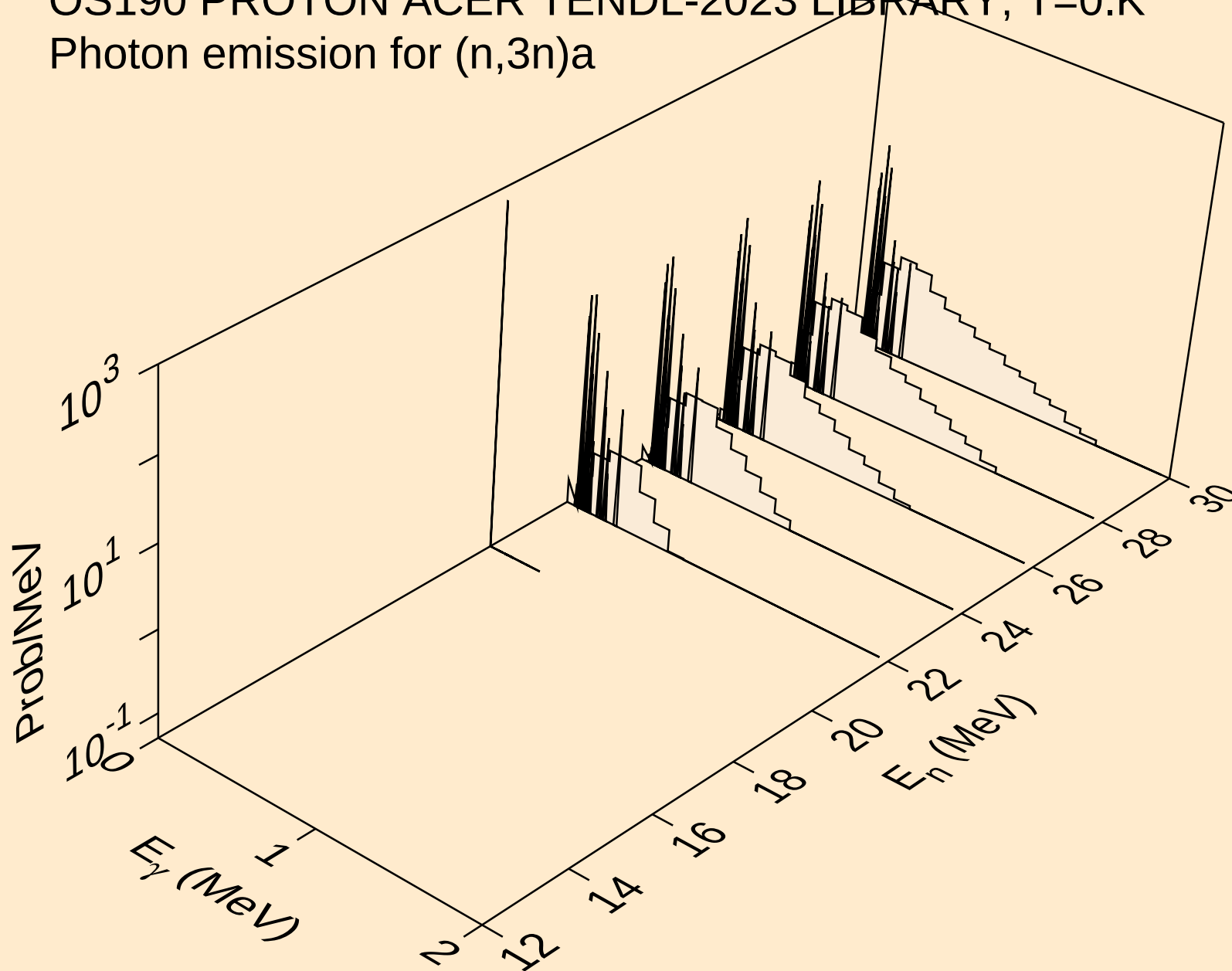


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

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

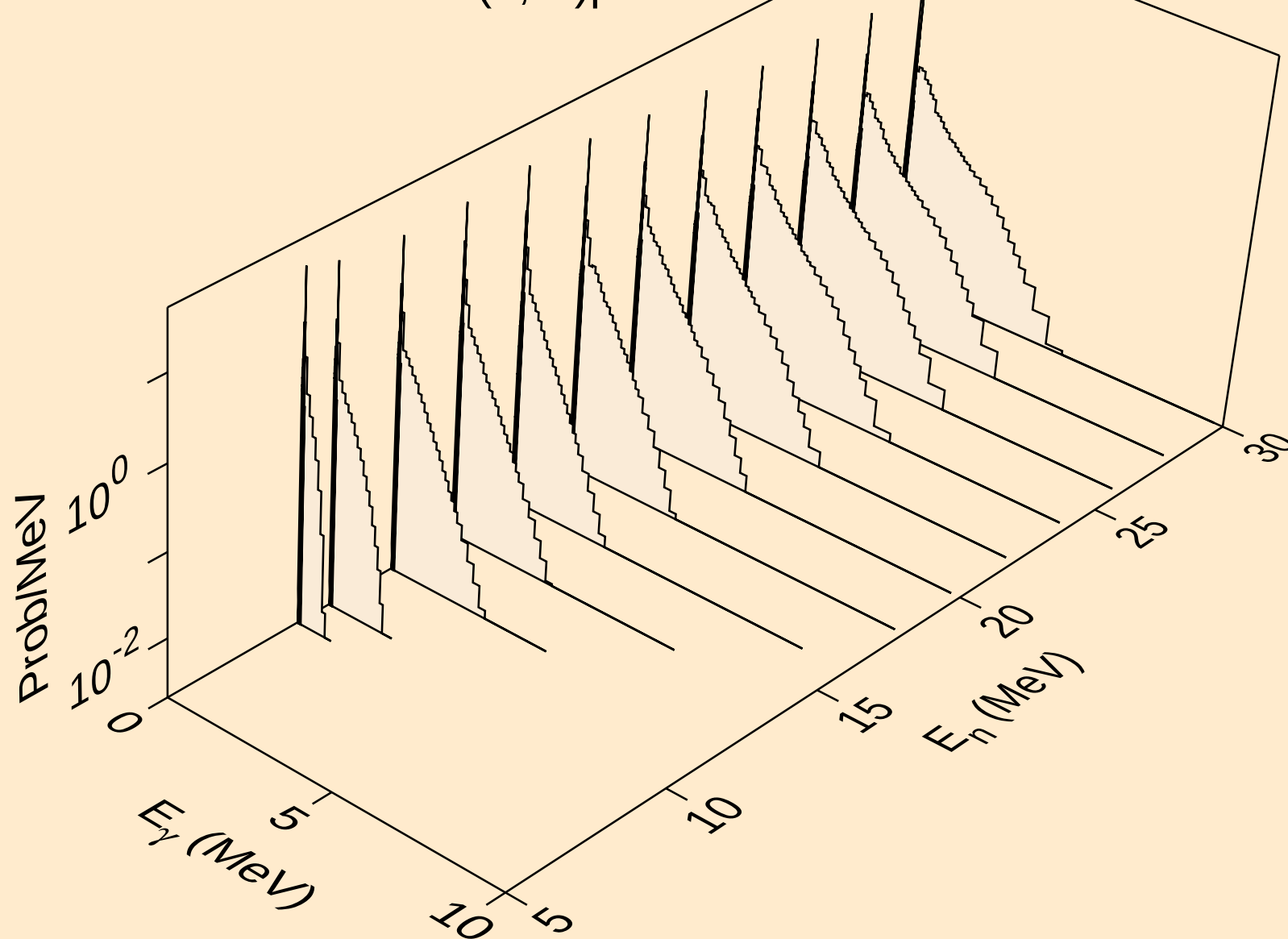


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n) $\alpha$

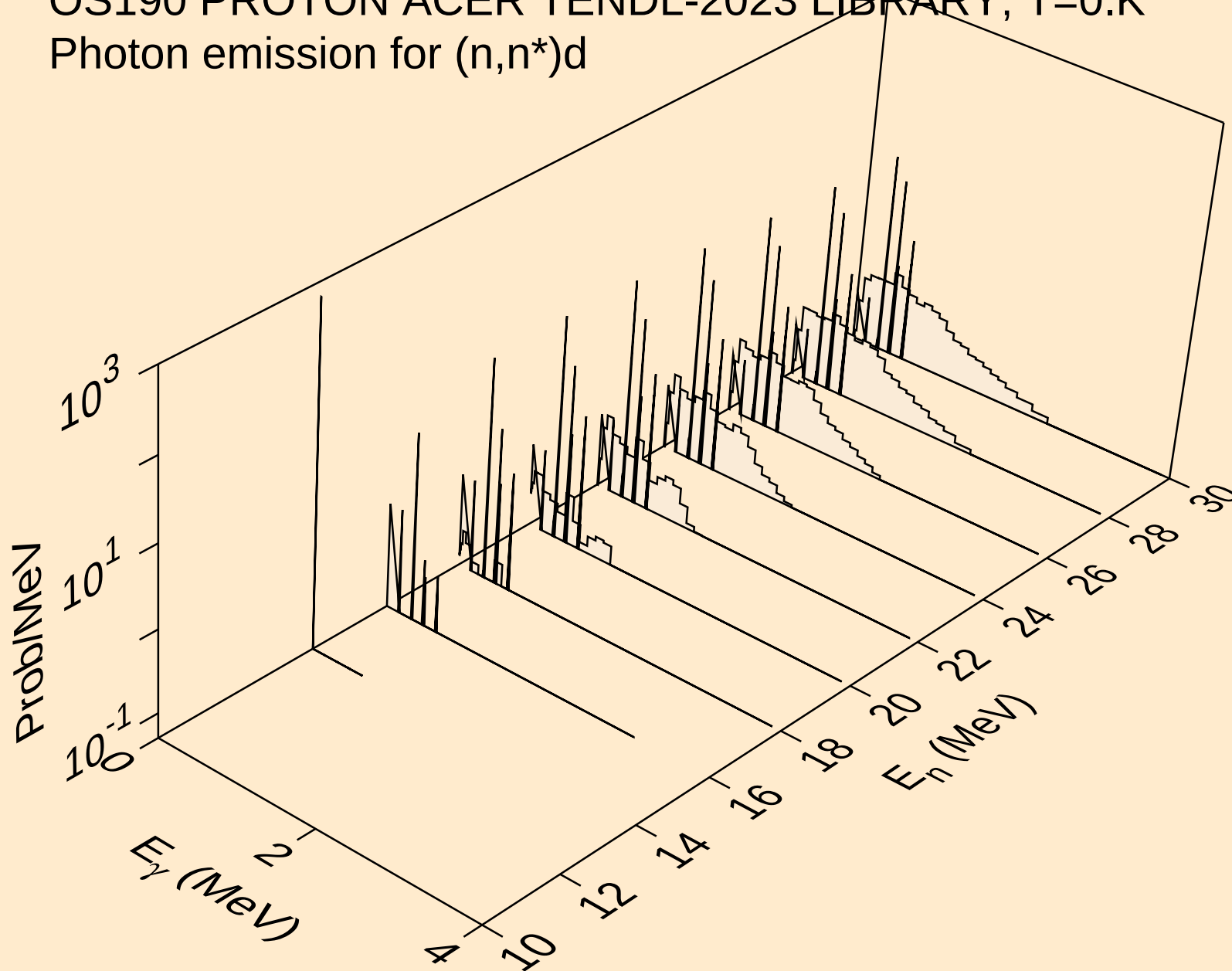


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)p

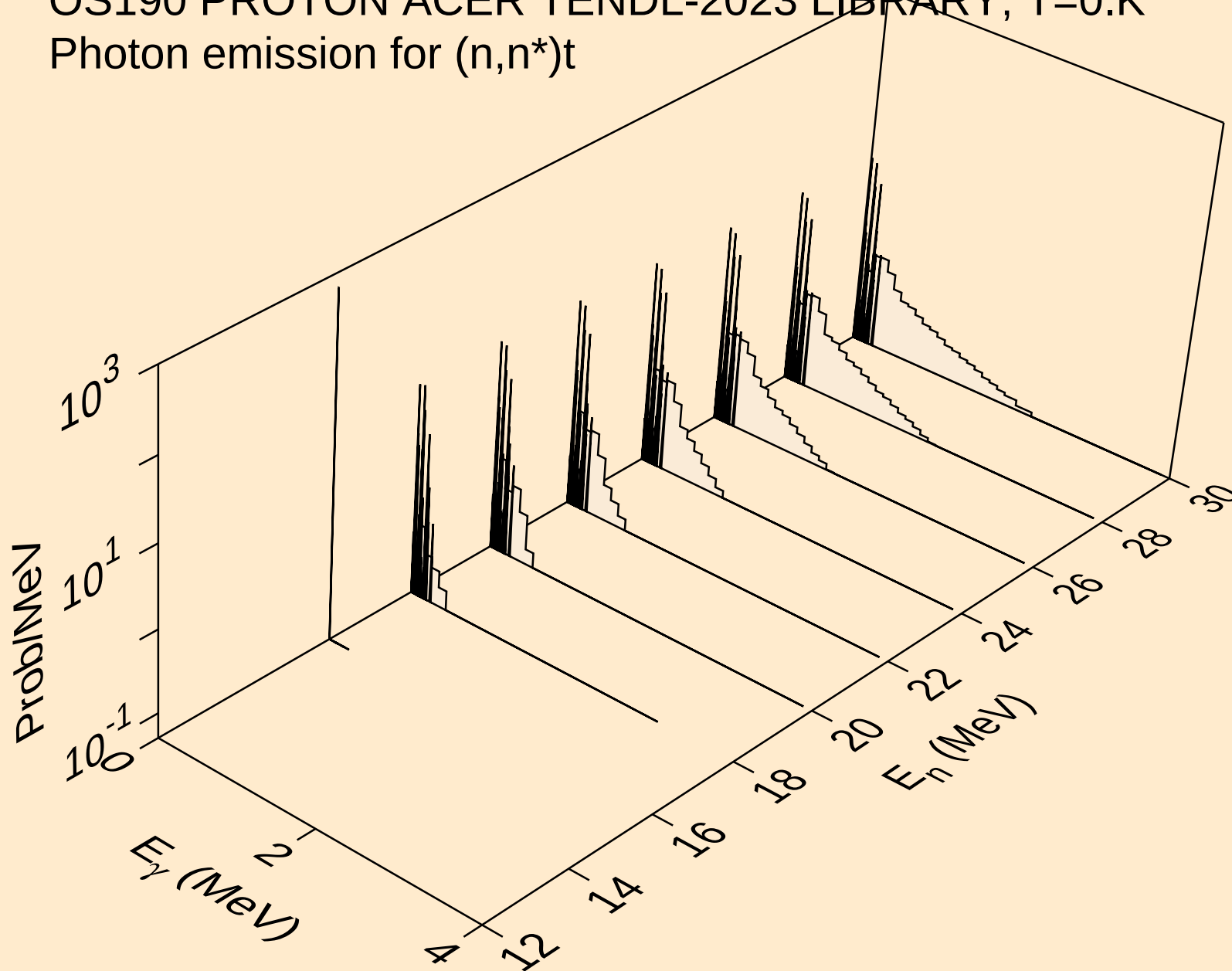


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d

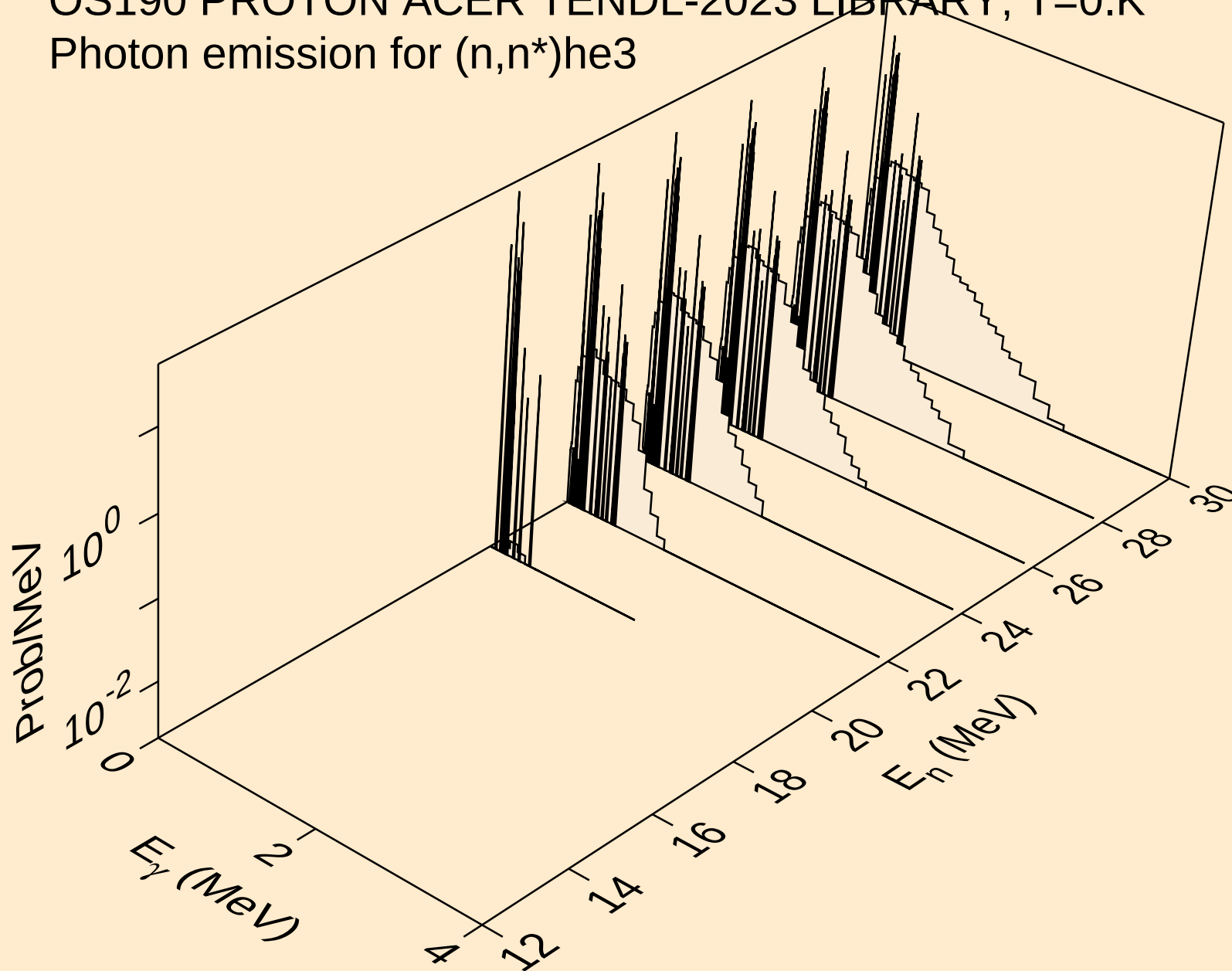


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

Photon emission for (n,n\*)t

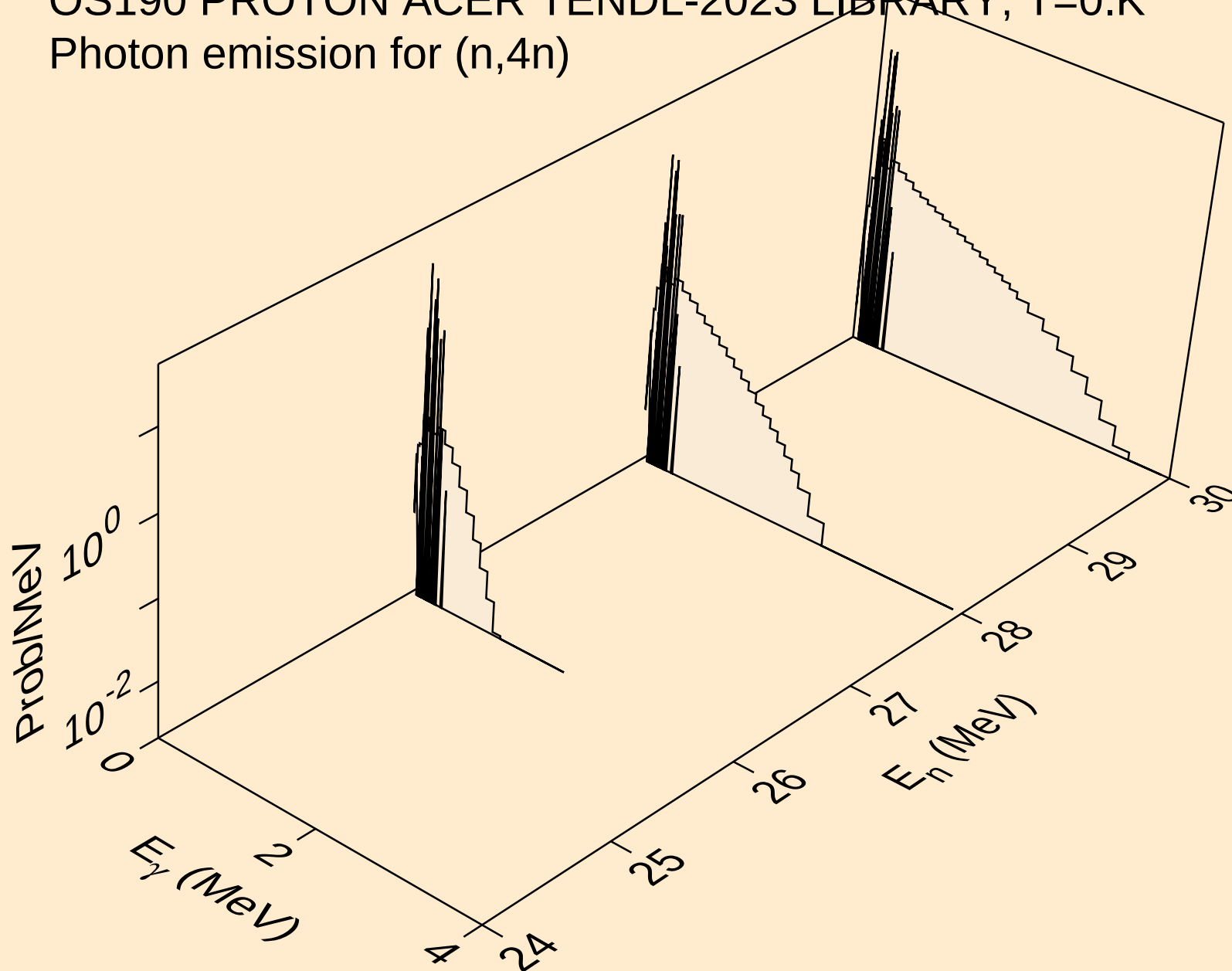


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

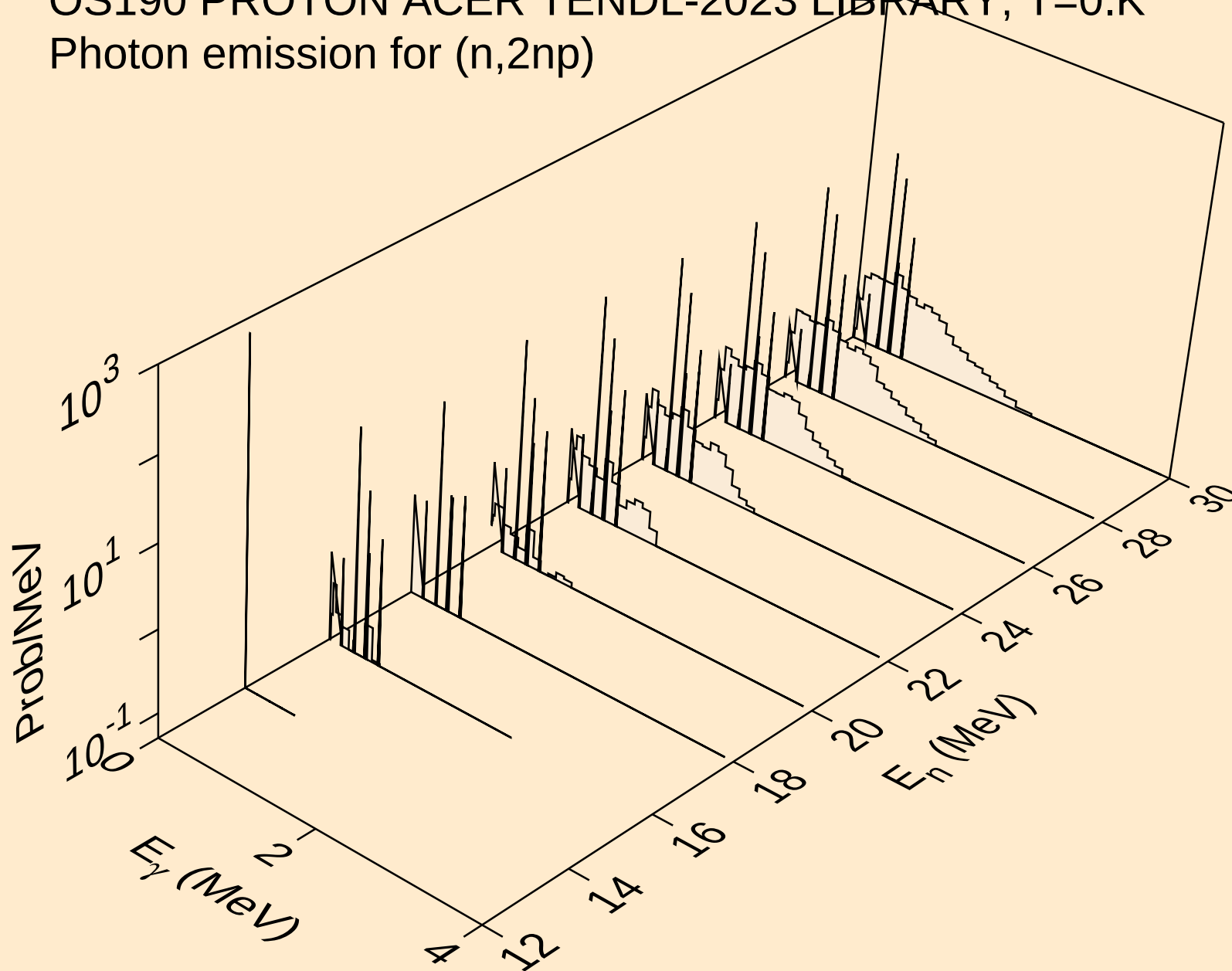




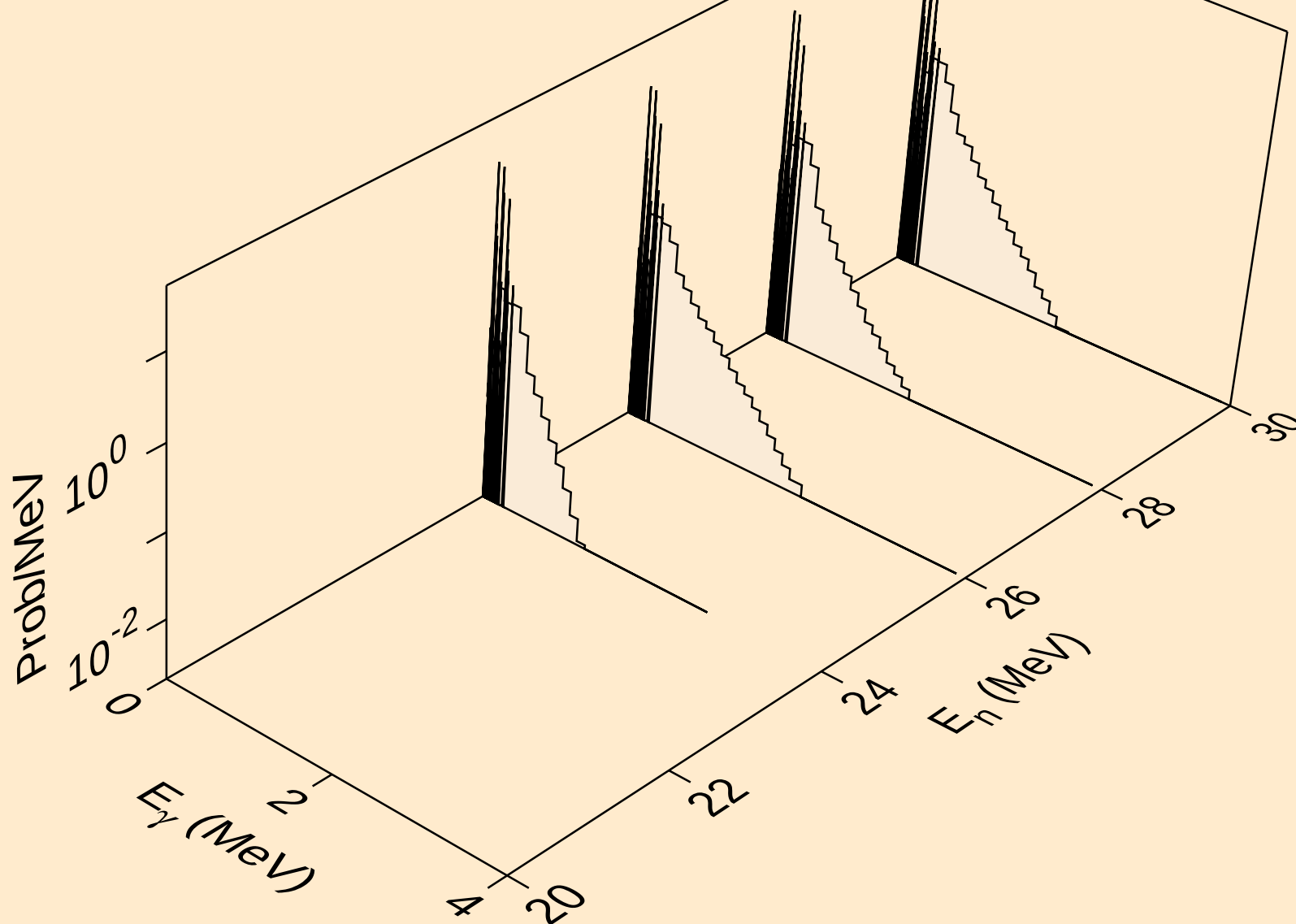
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



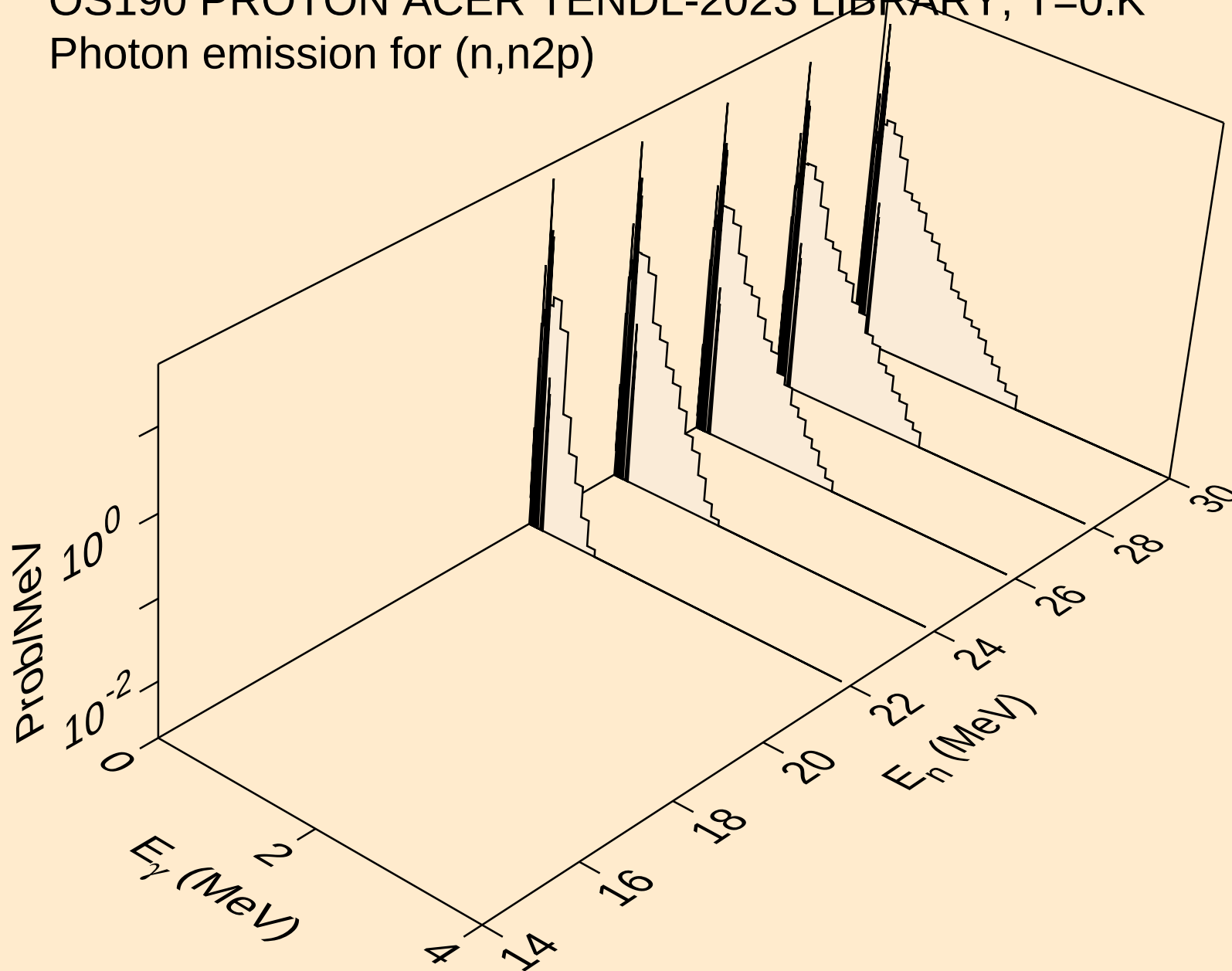
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



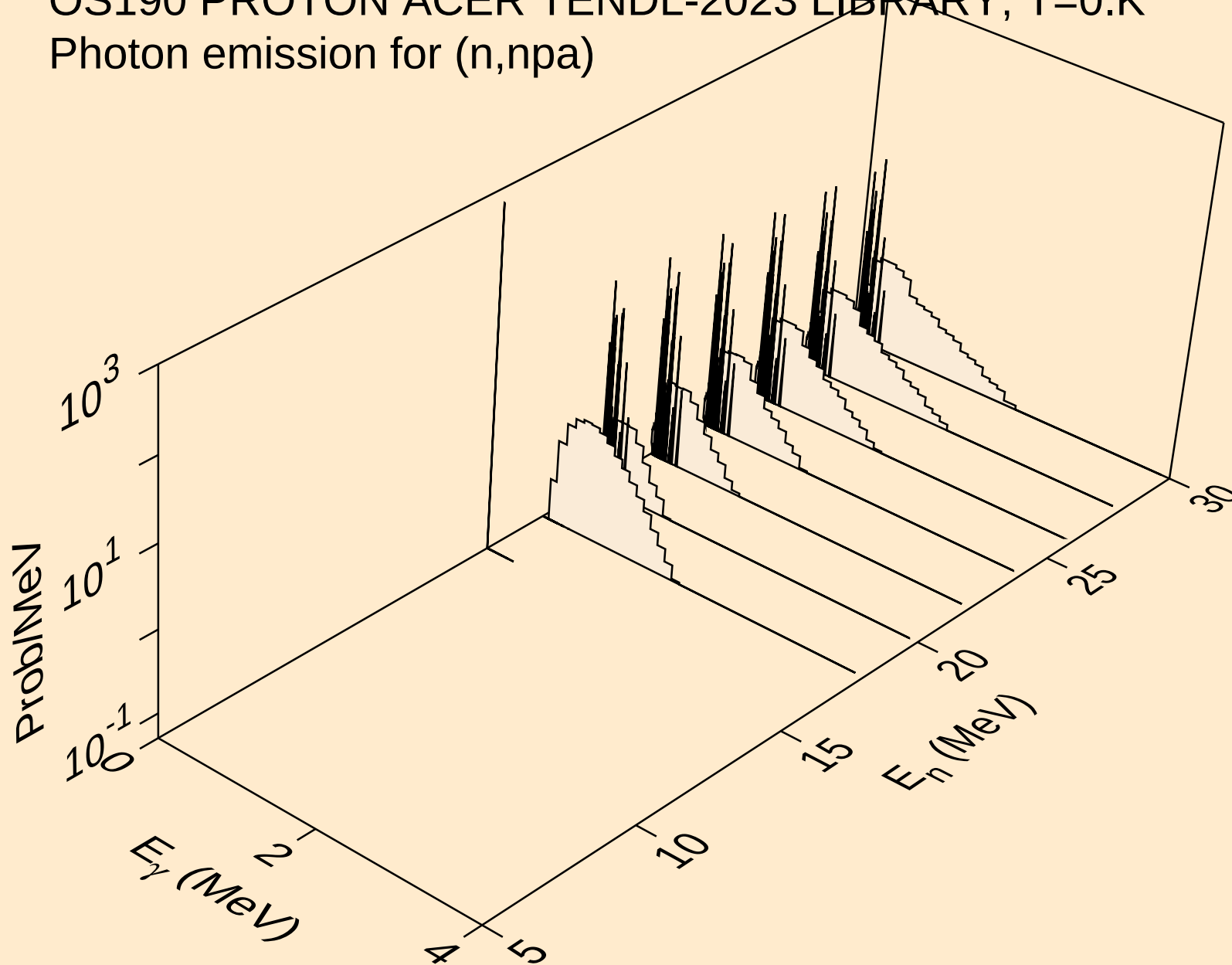
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



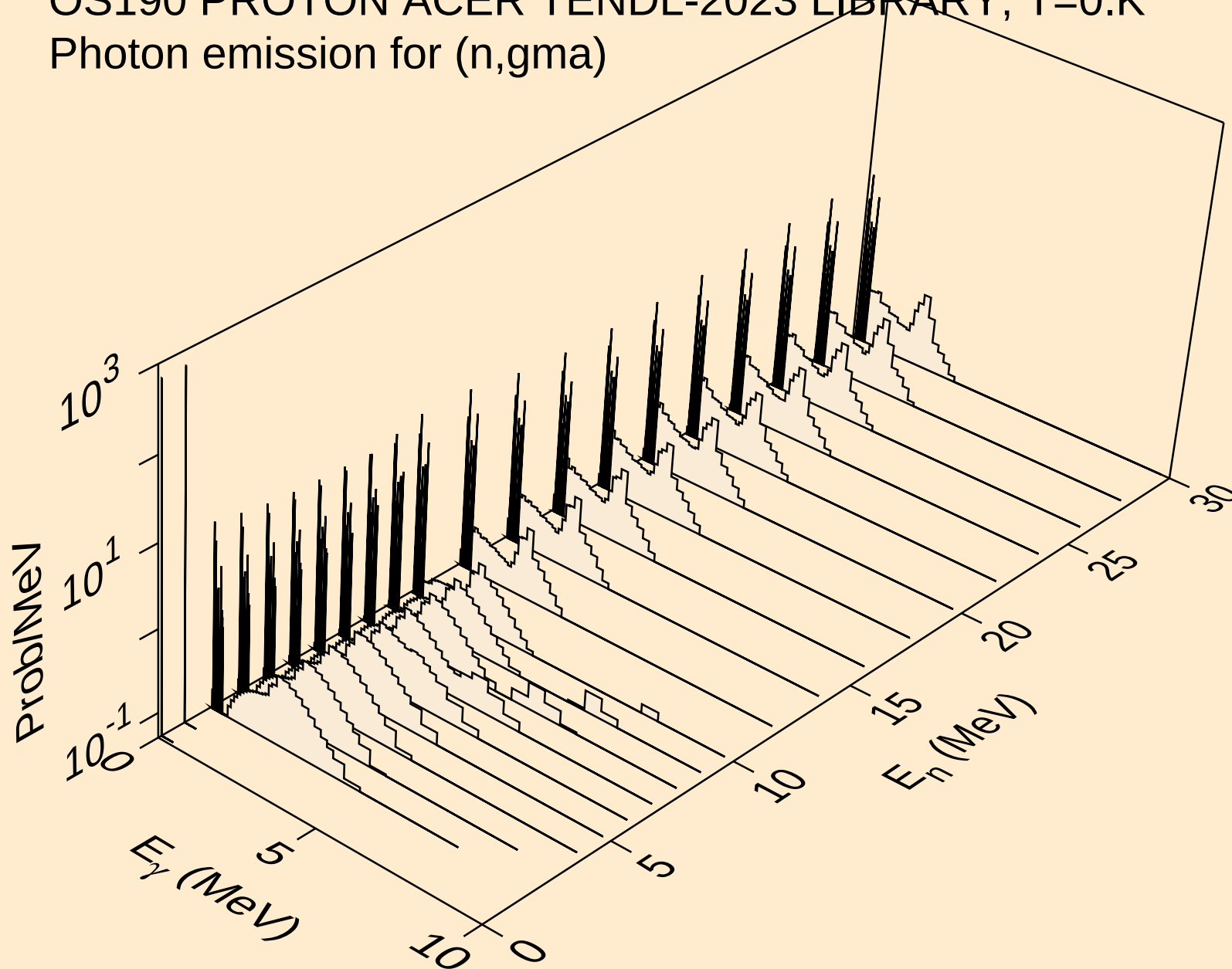
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



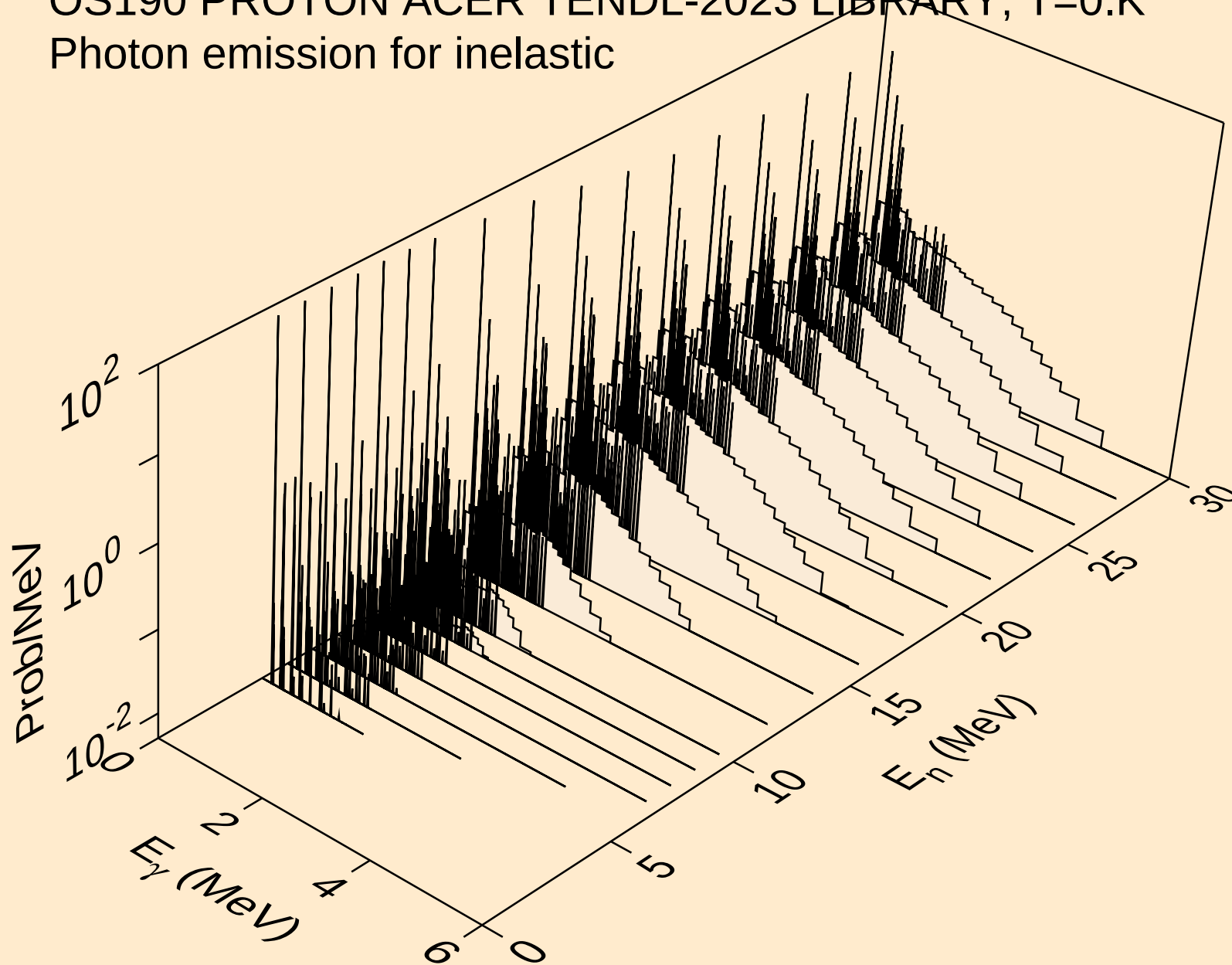
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



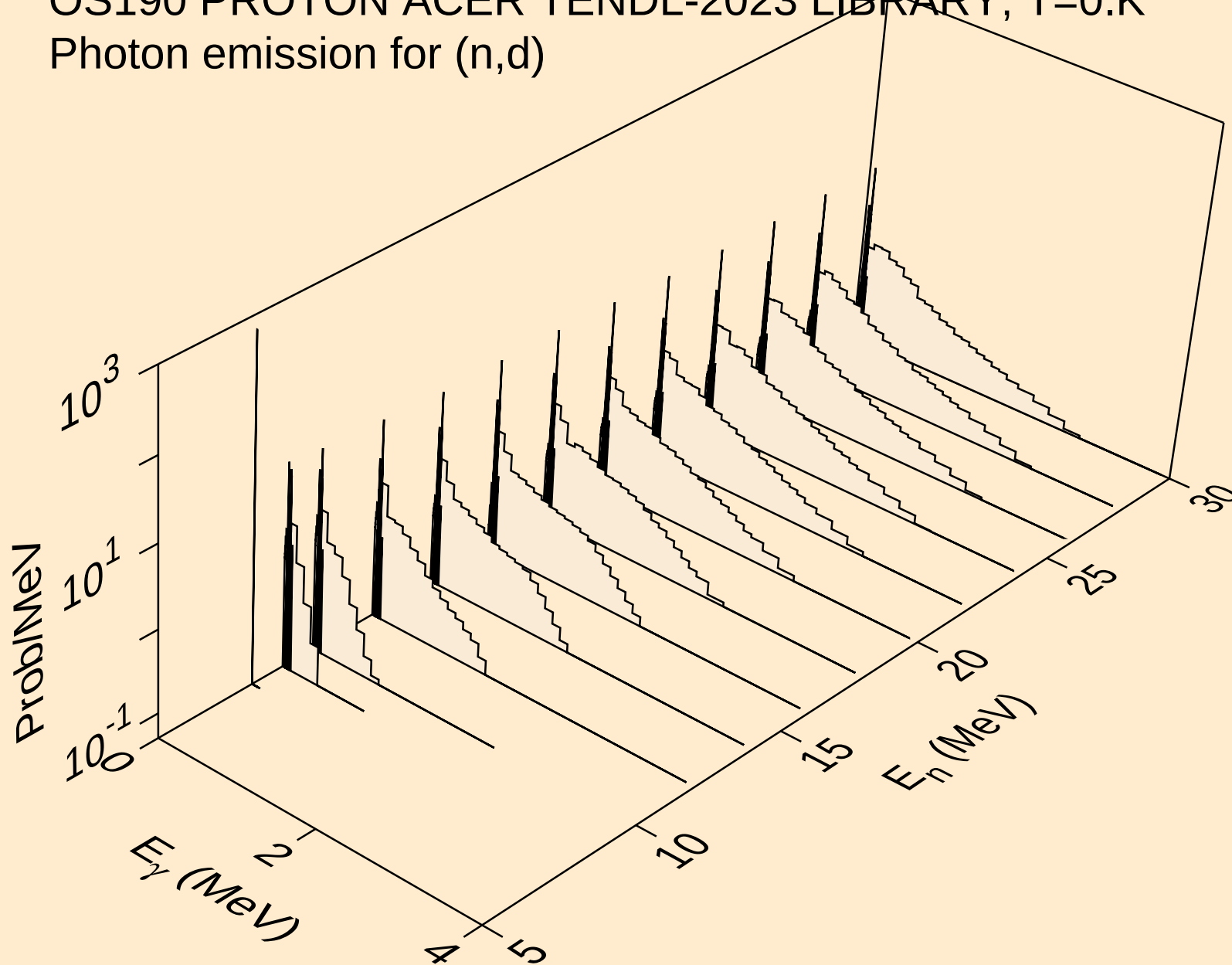
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic

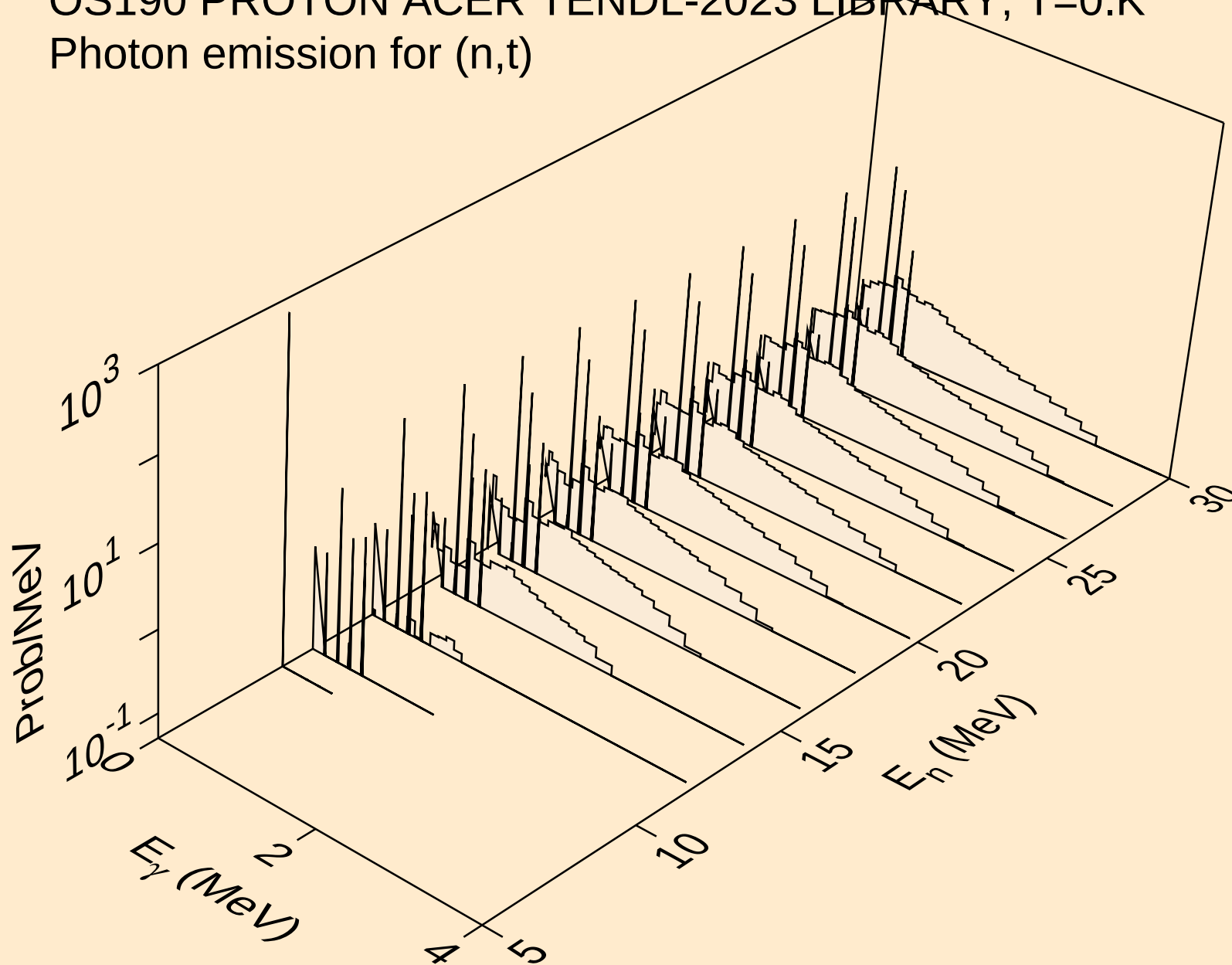


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

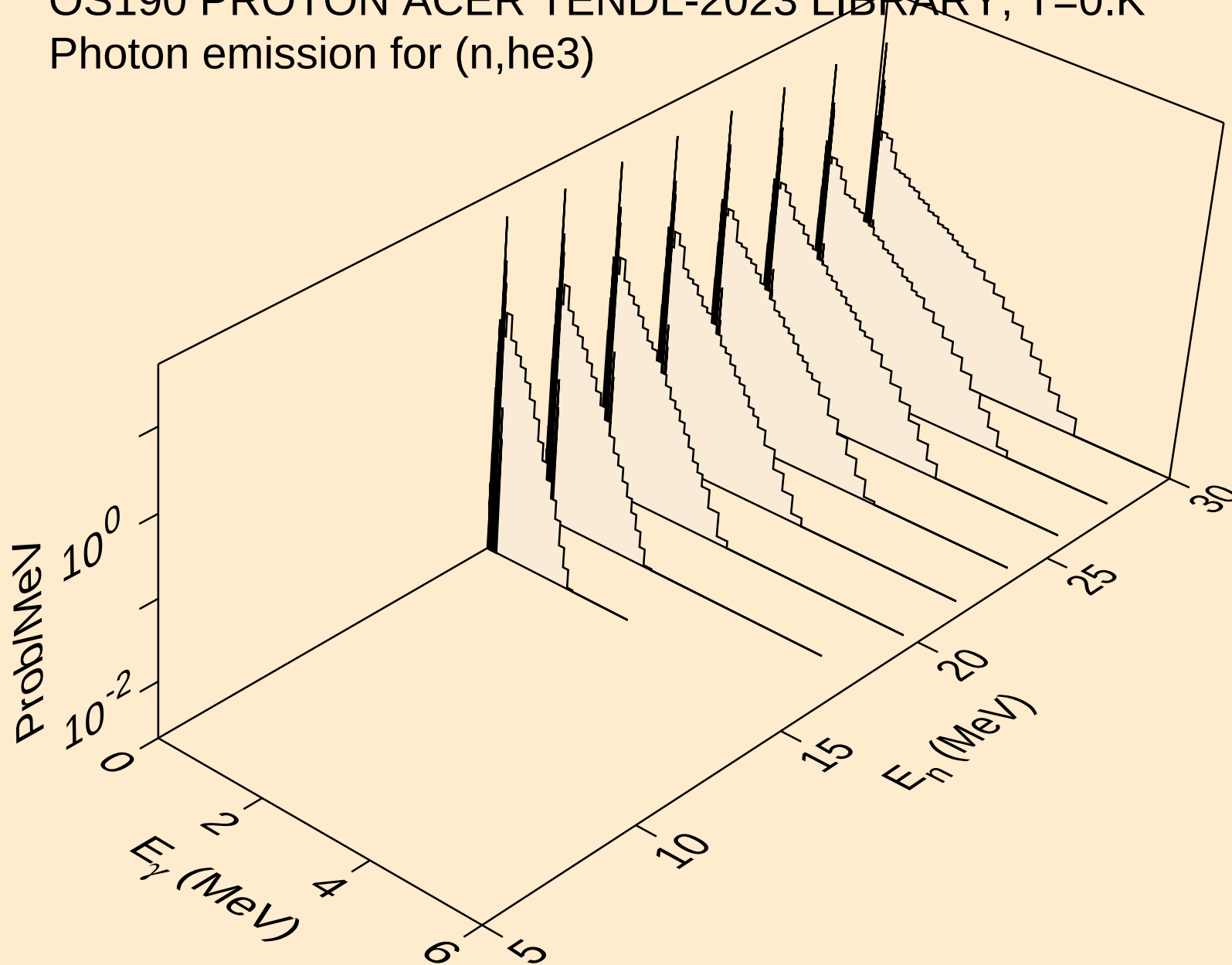




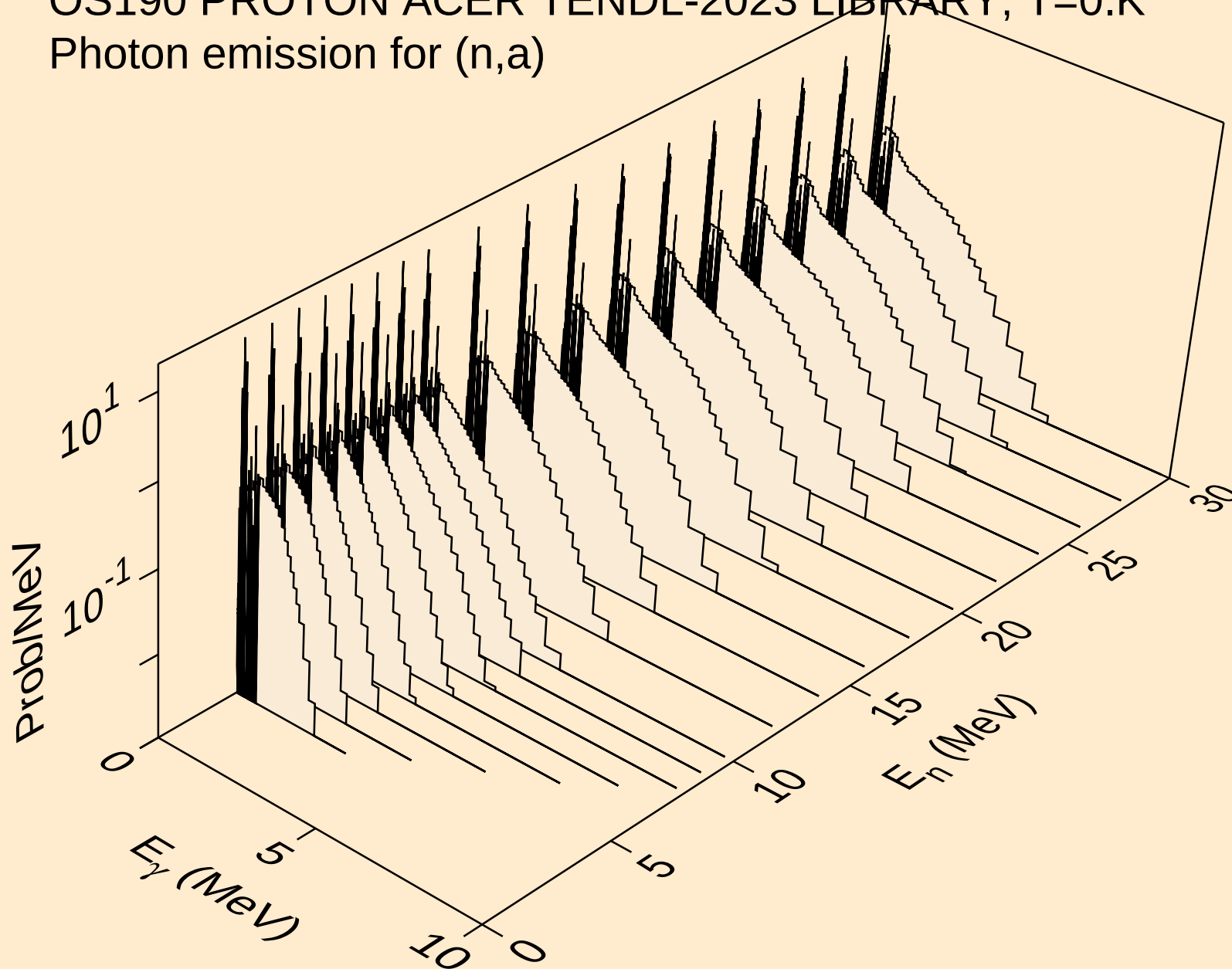
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



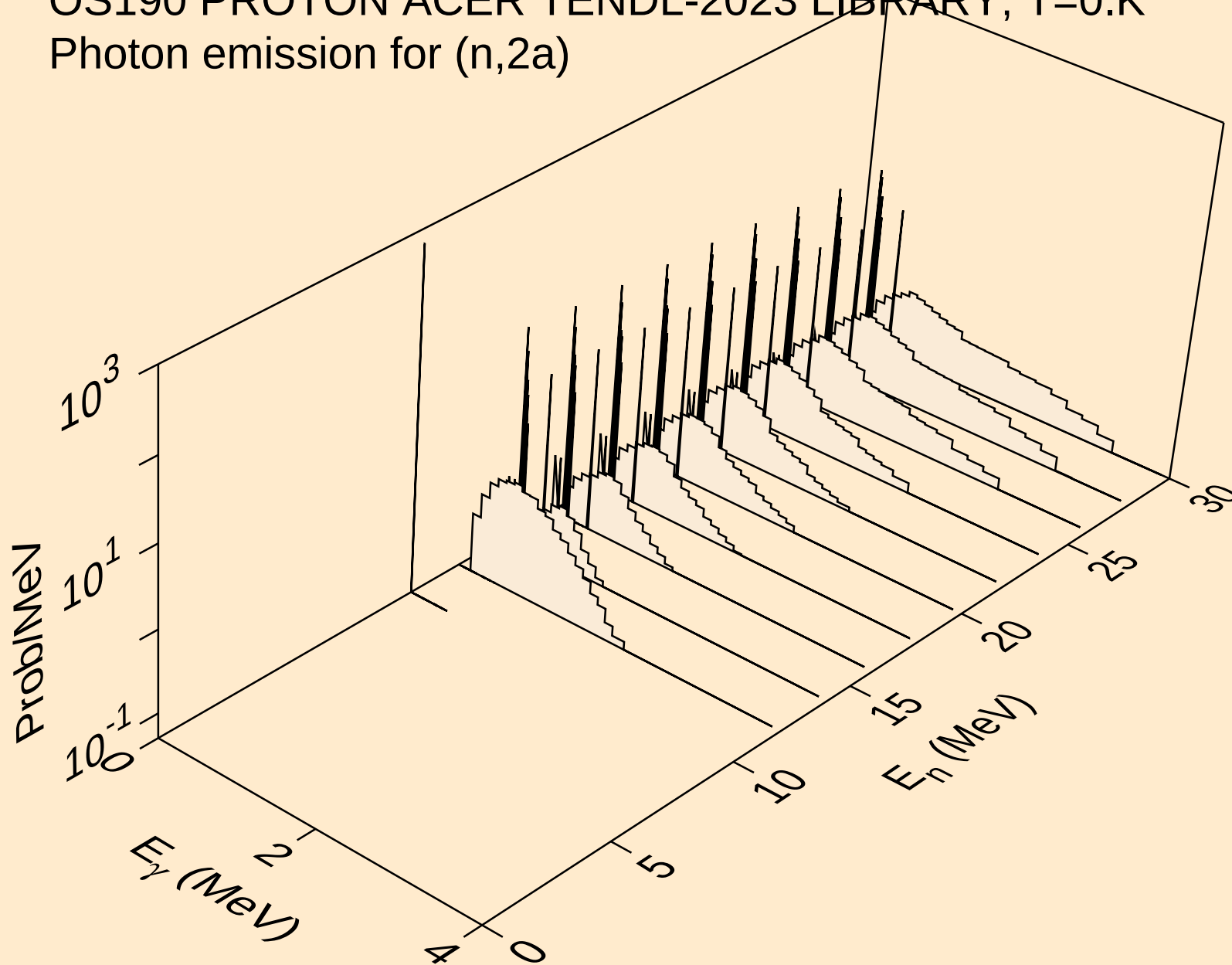
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



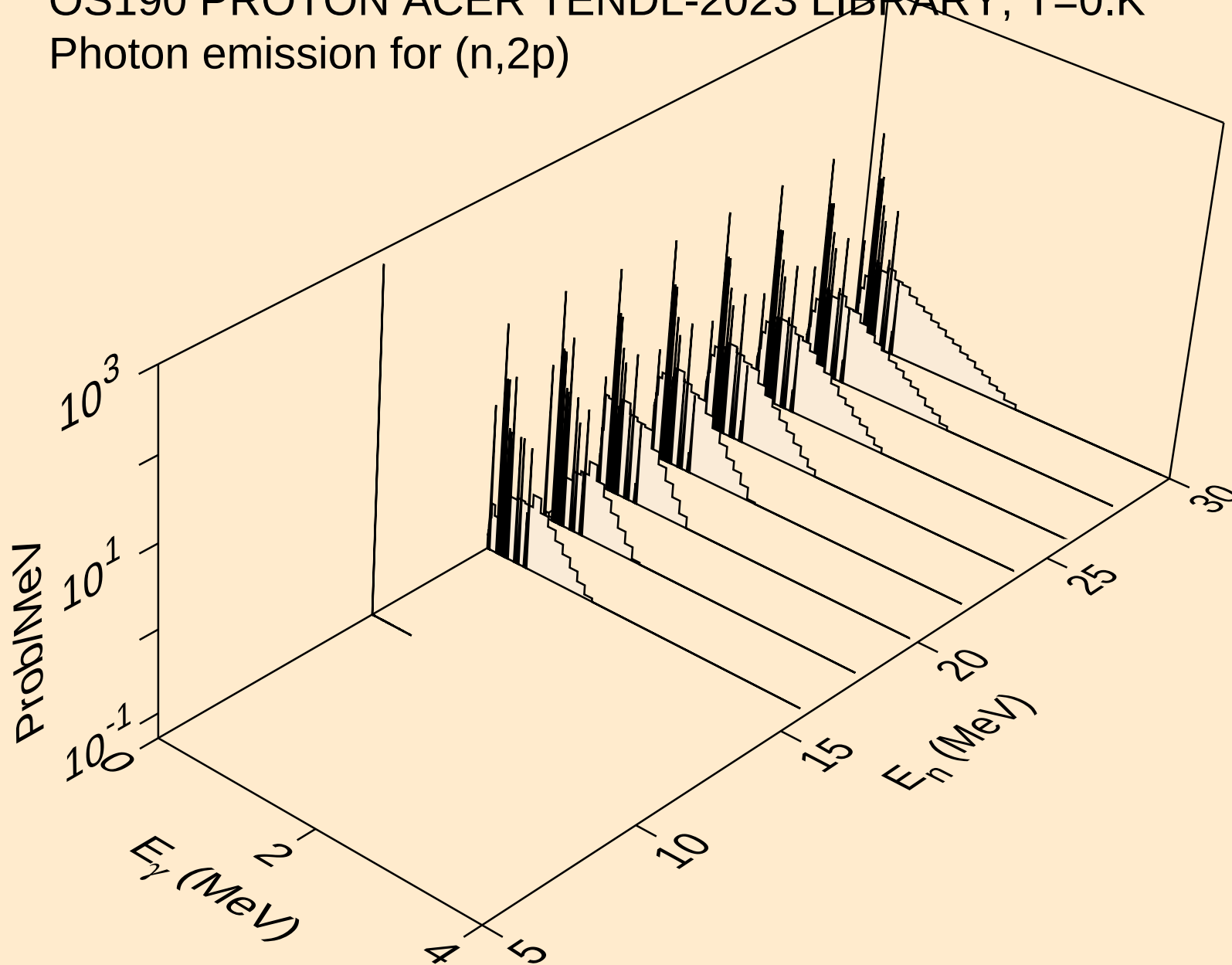
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



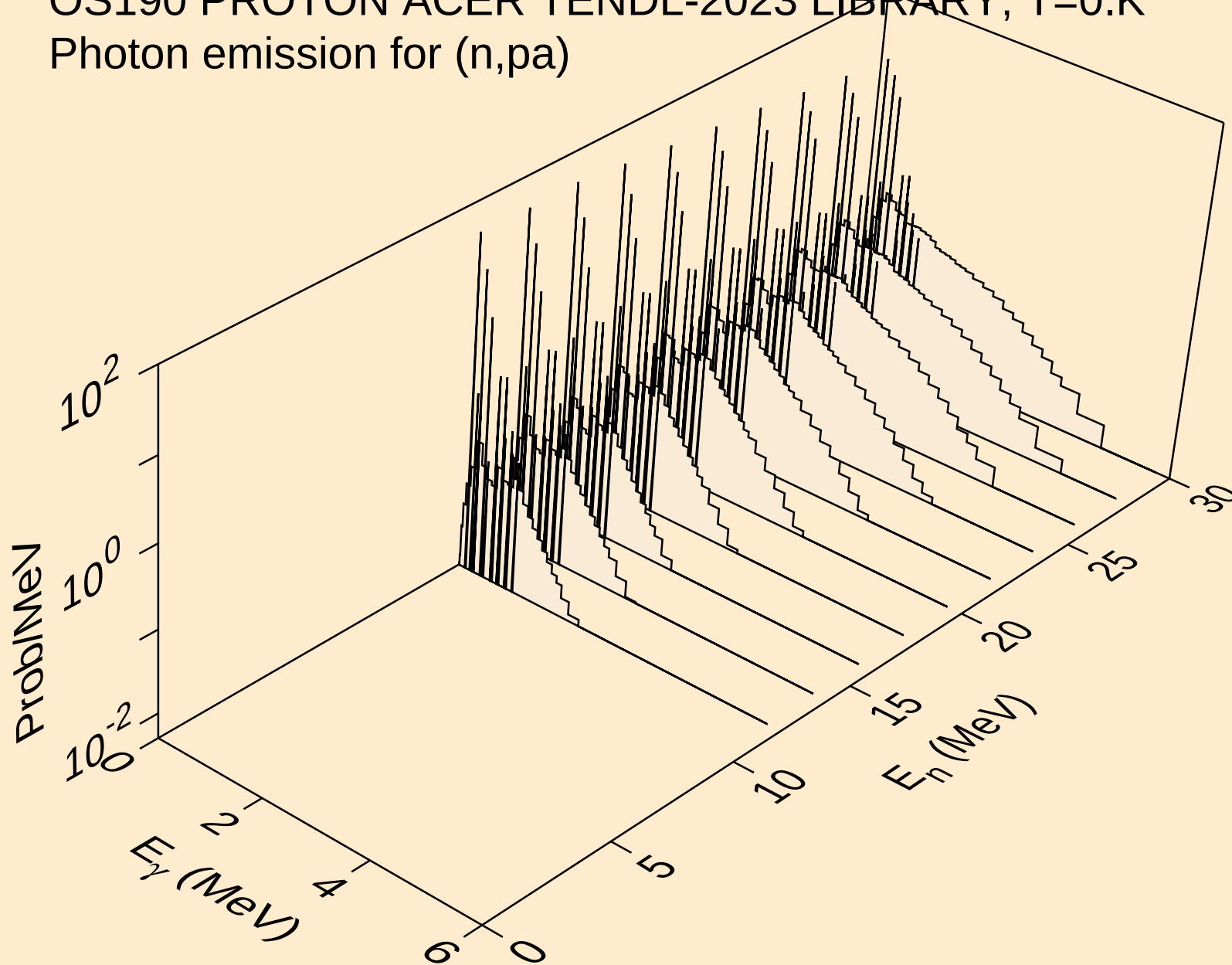
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)

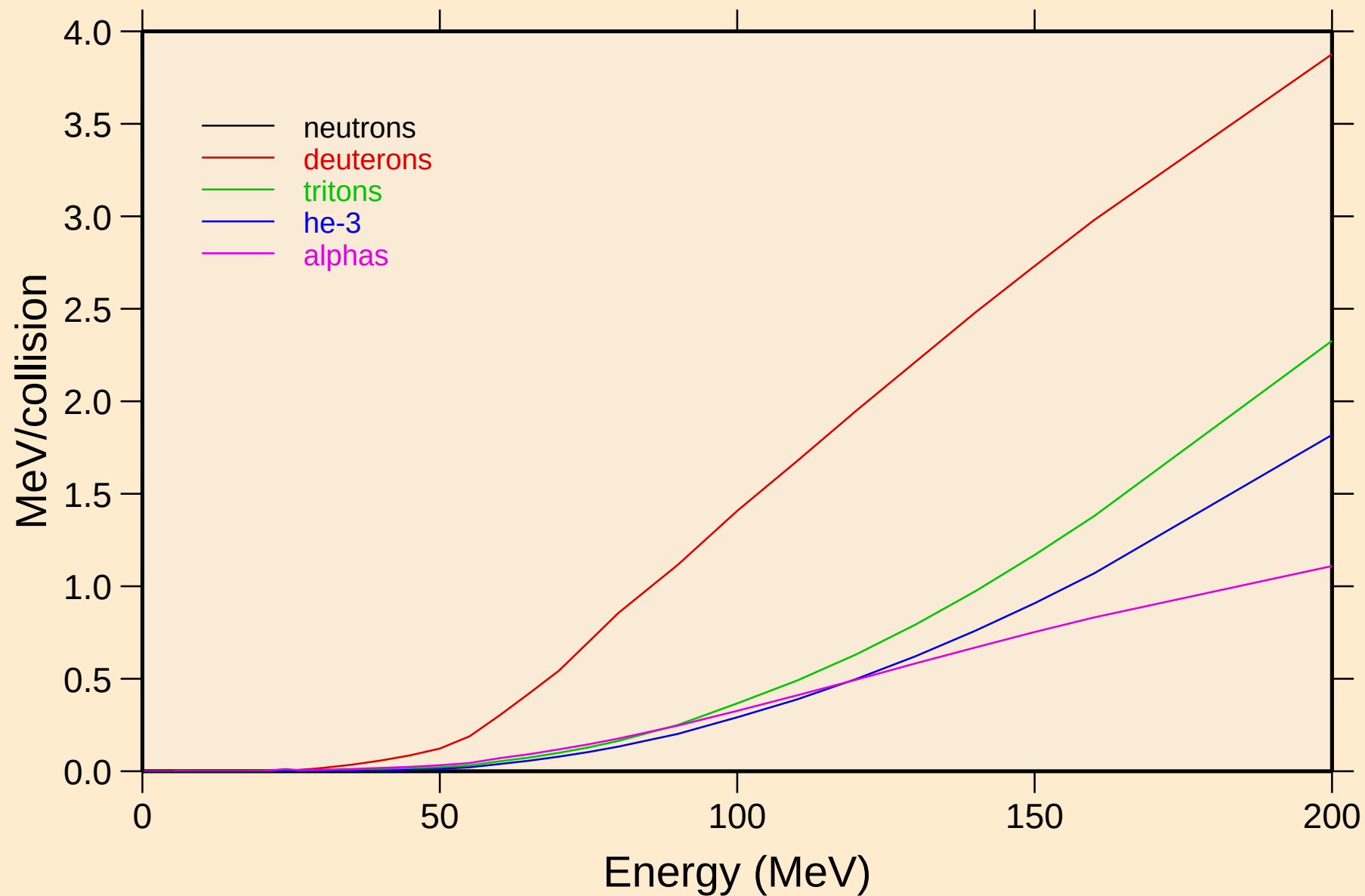


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p) $\alpha$



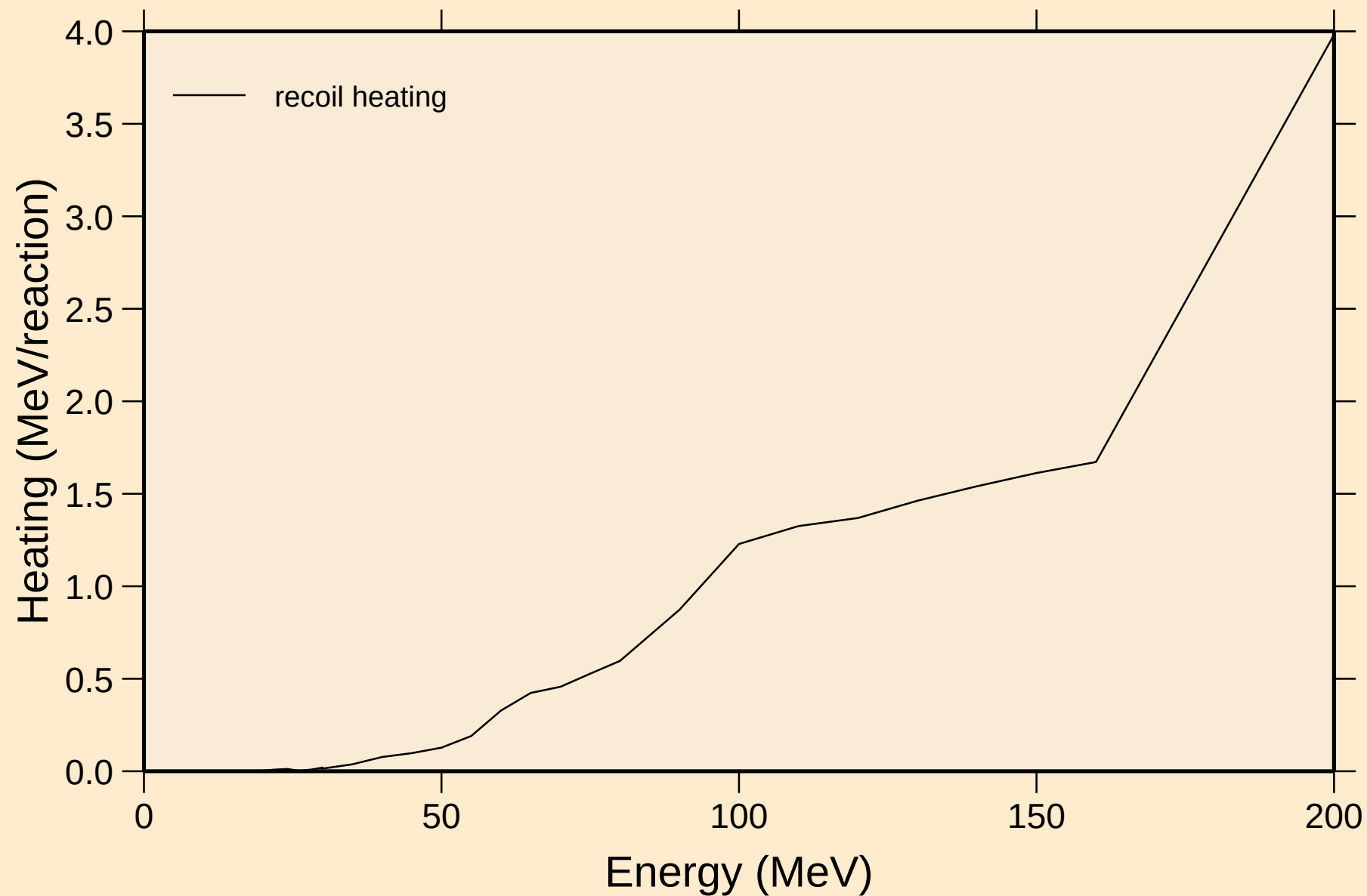
# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions



# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

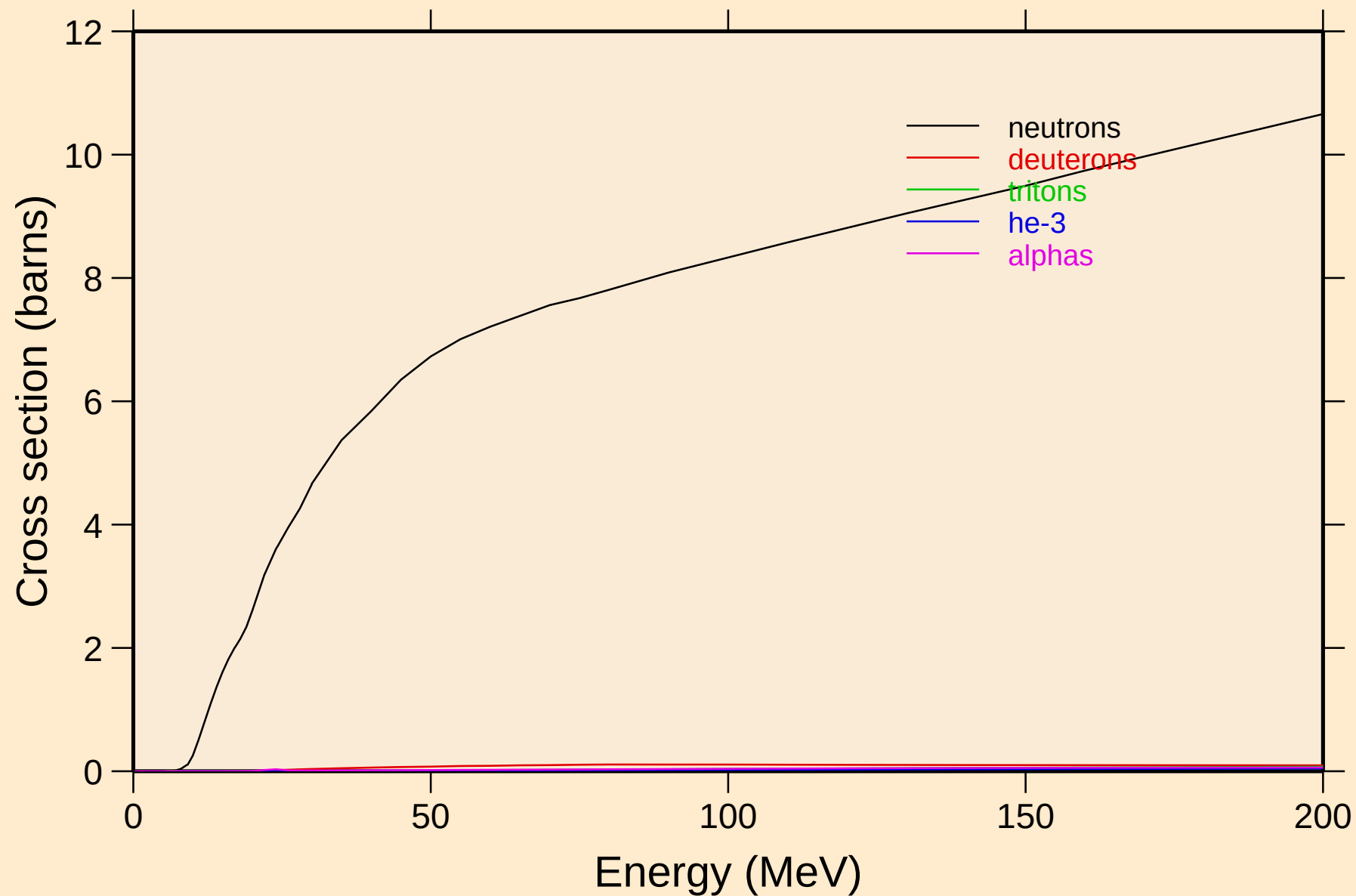
## Recoil Heating



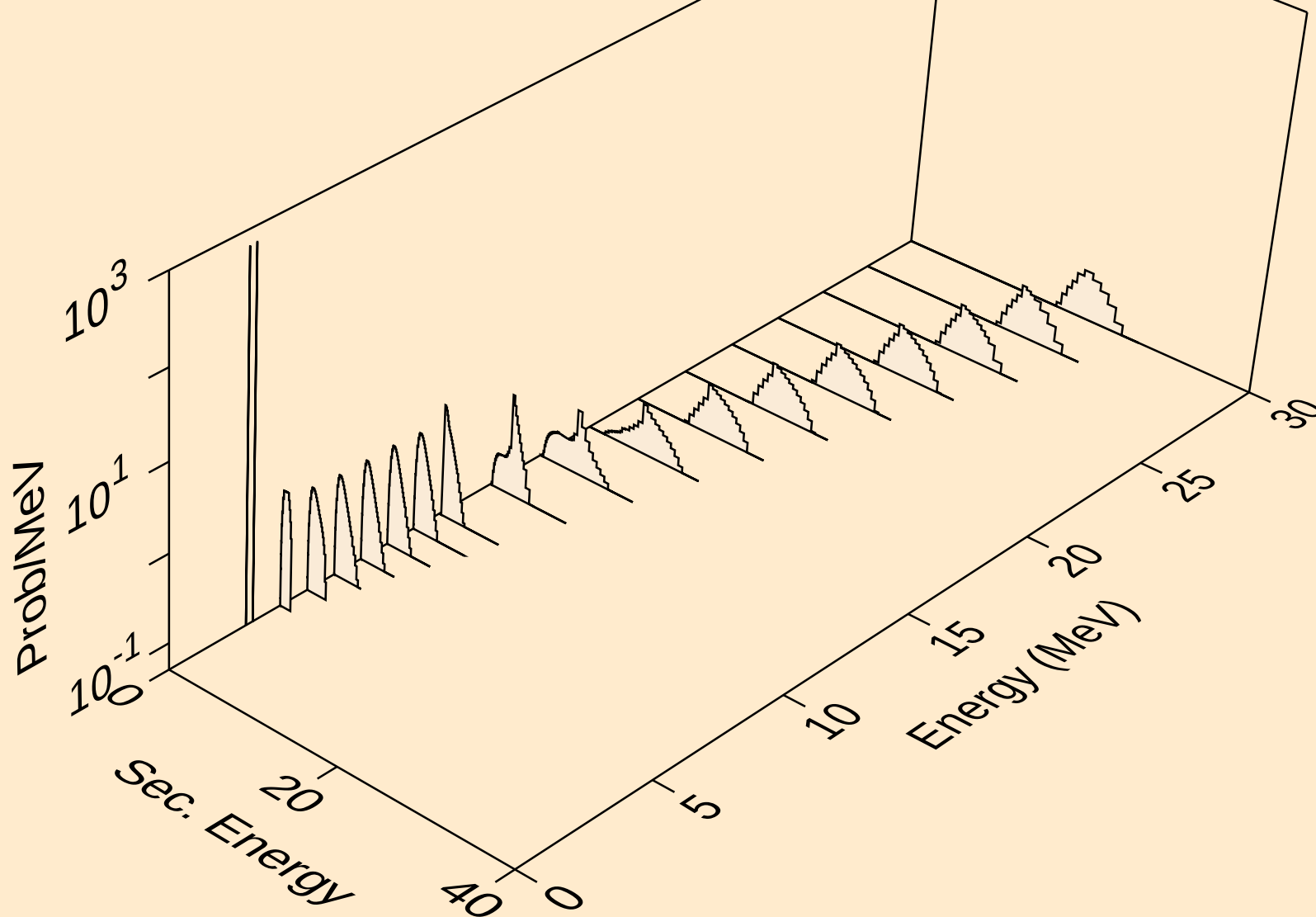


# OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K

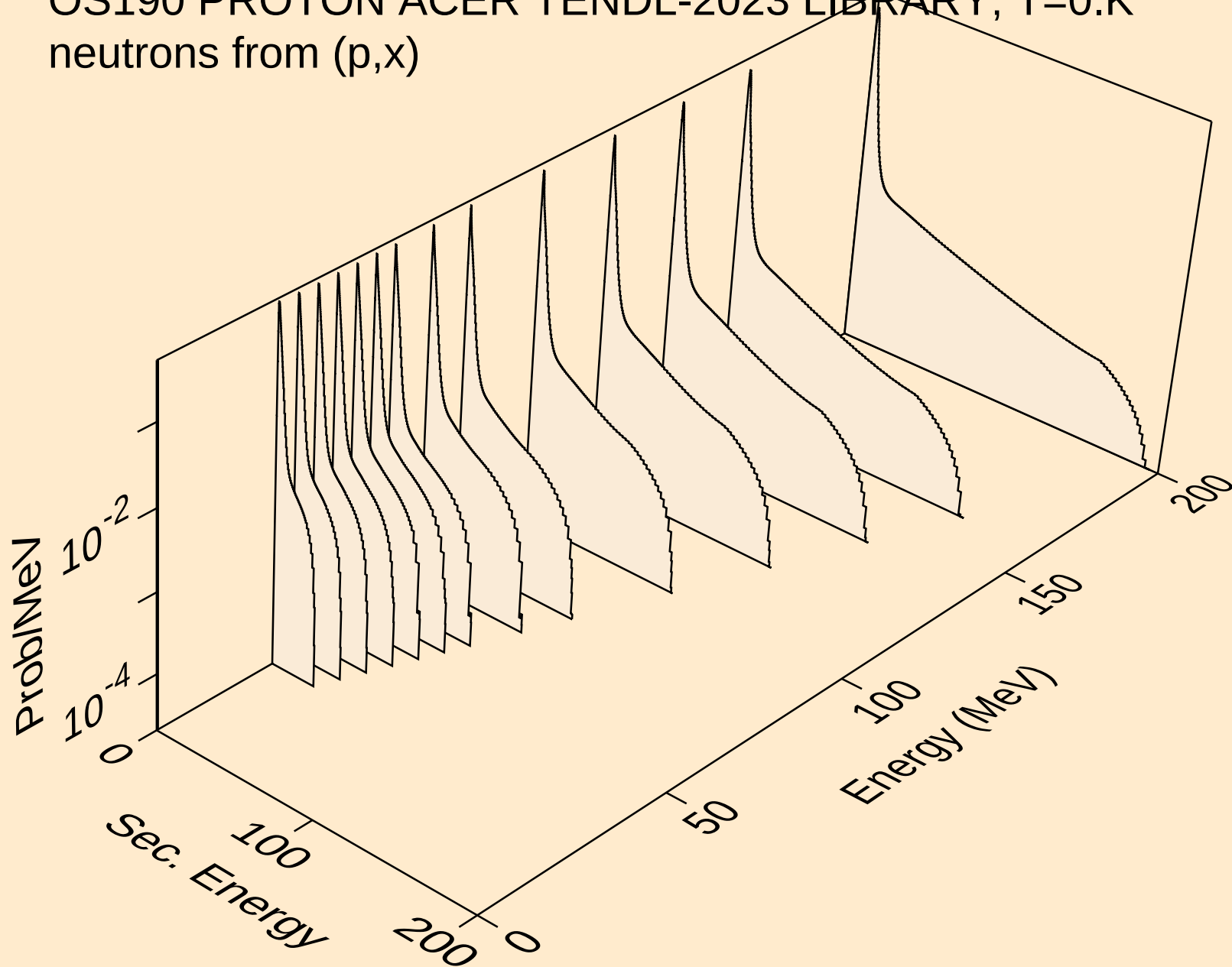
## Particle production cross sections



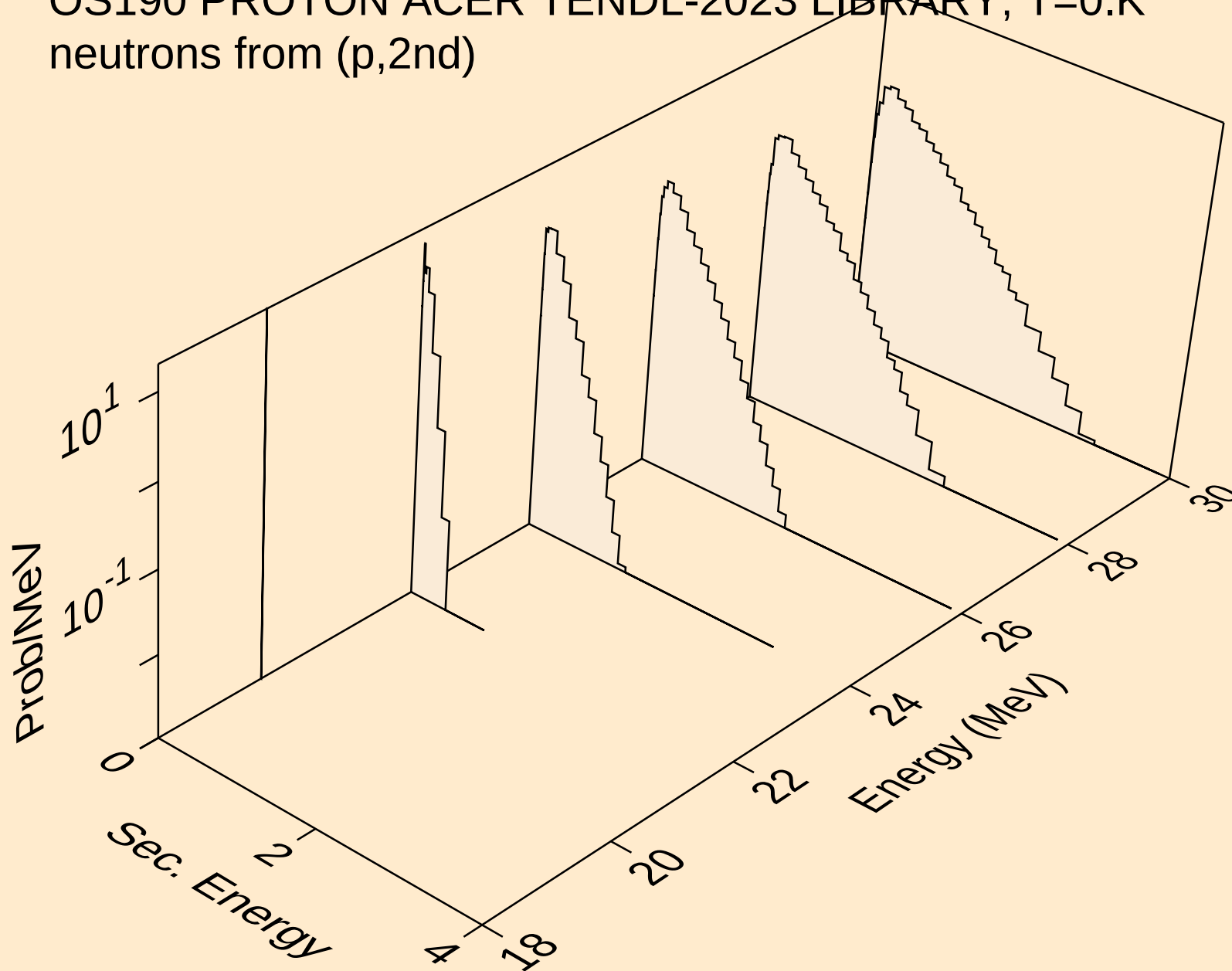
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



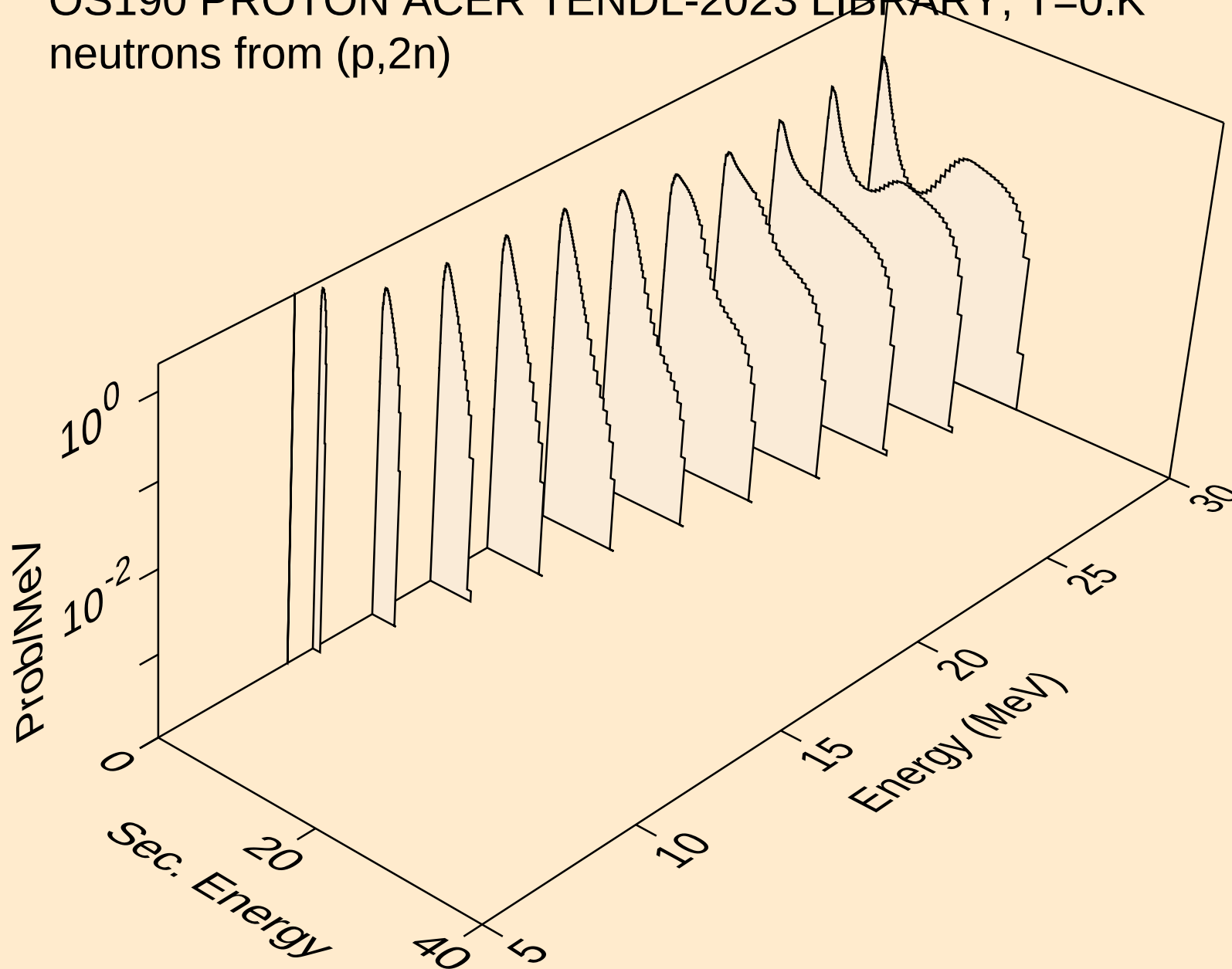
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



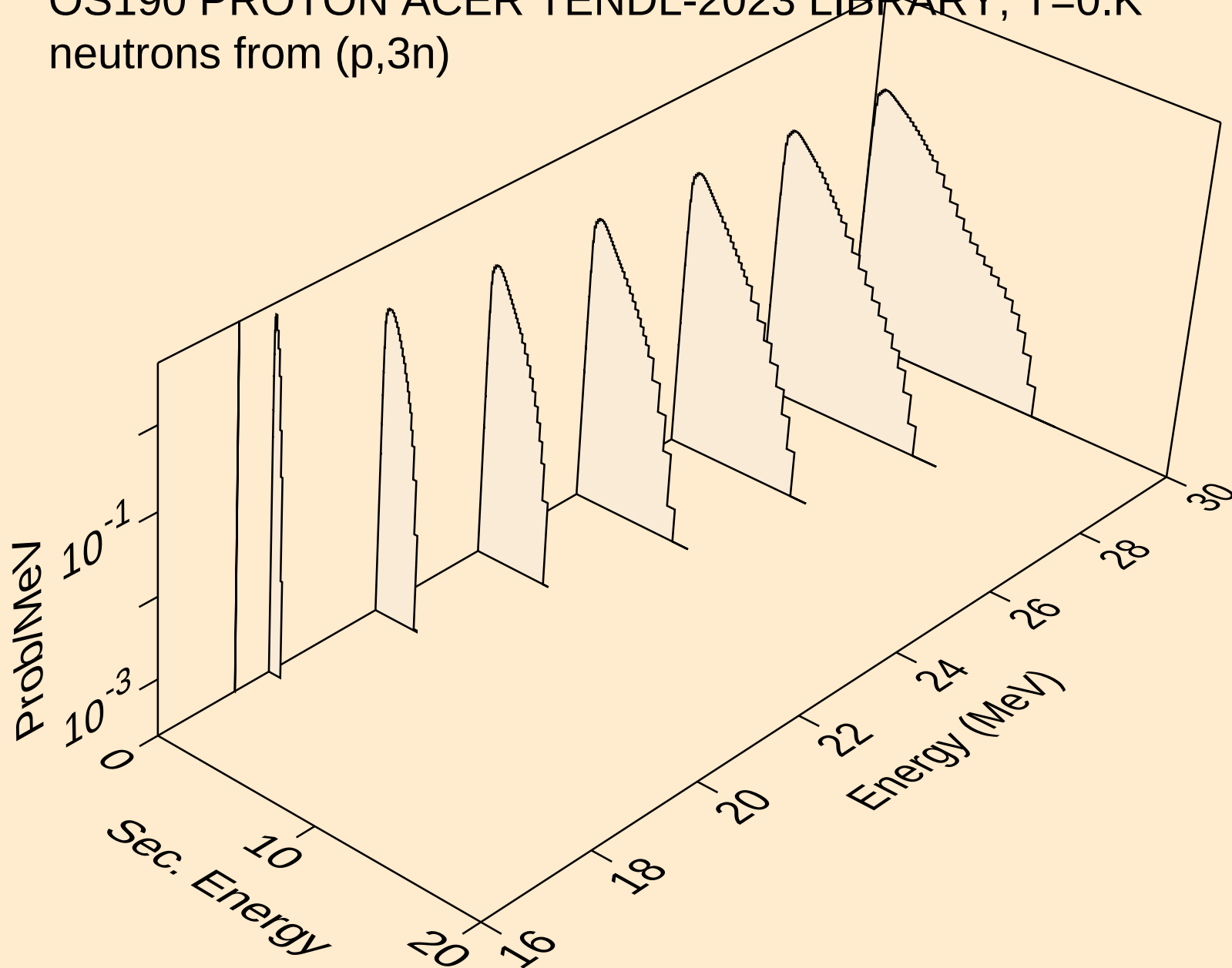
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2nd)



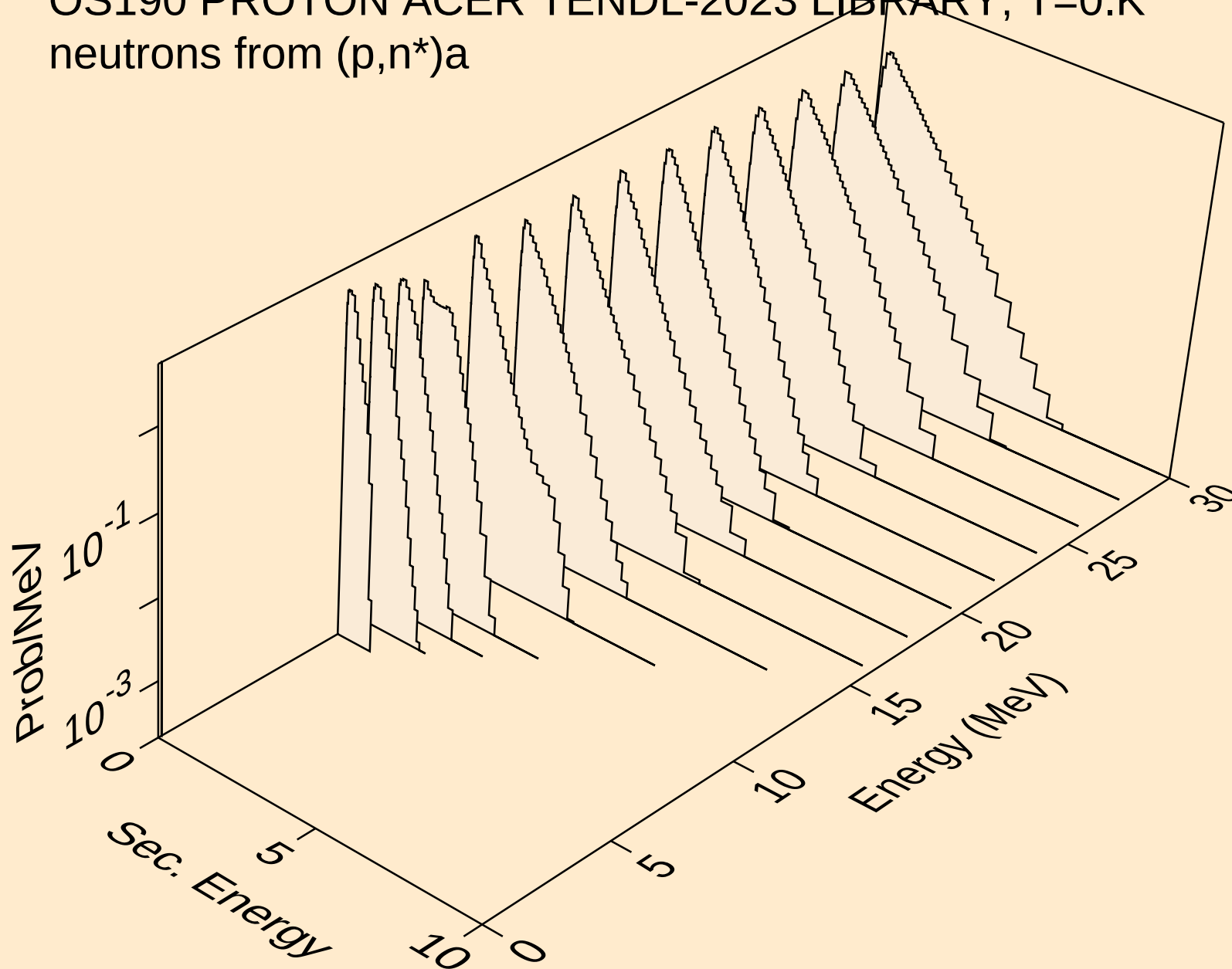
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



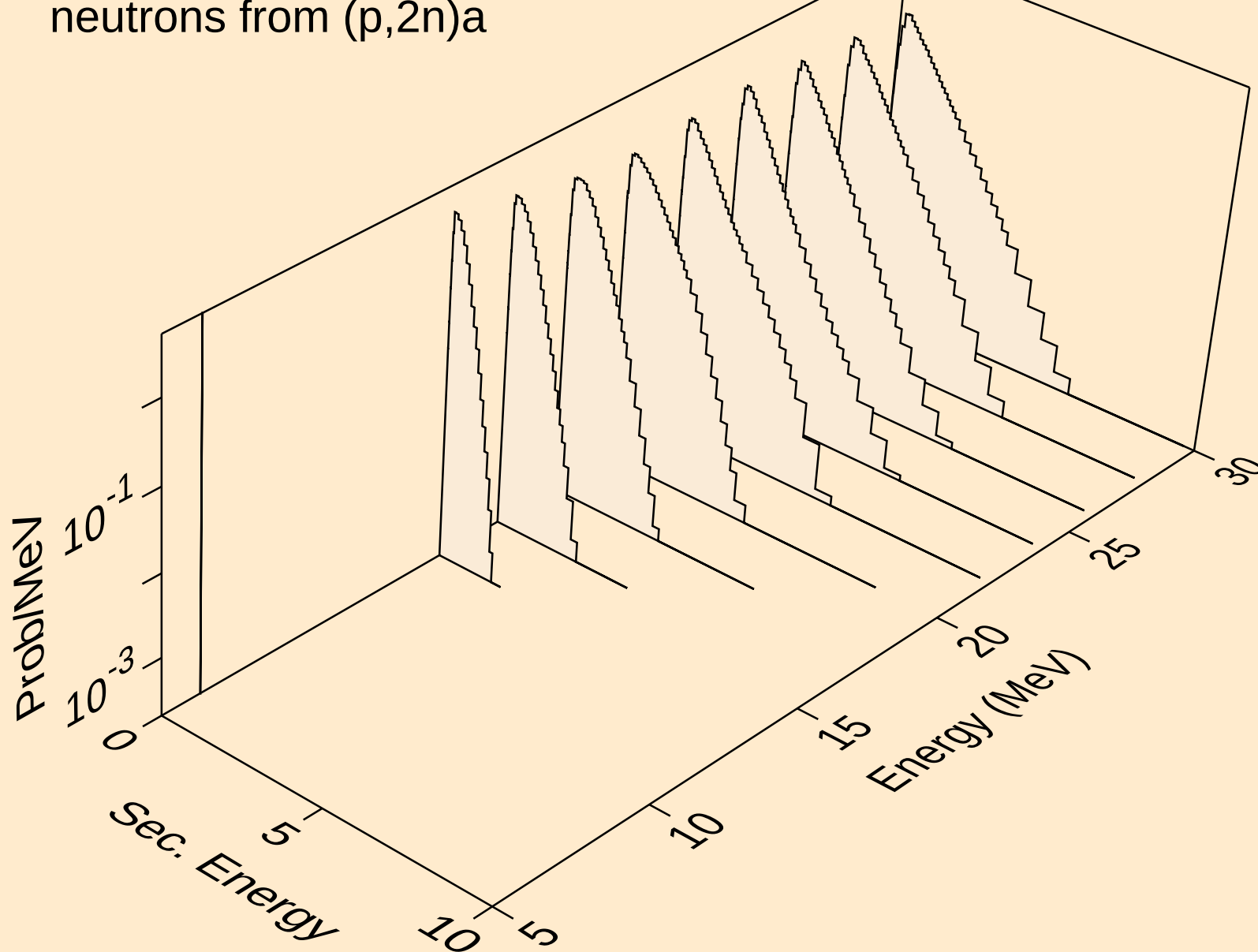
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a

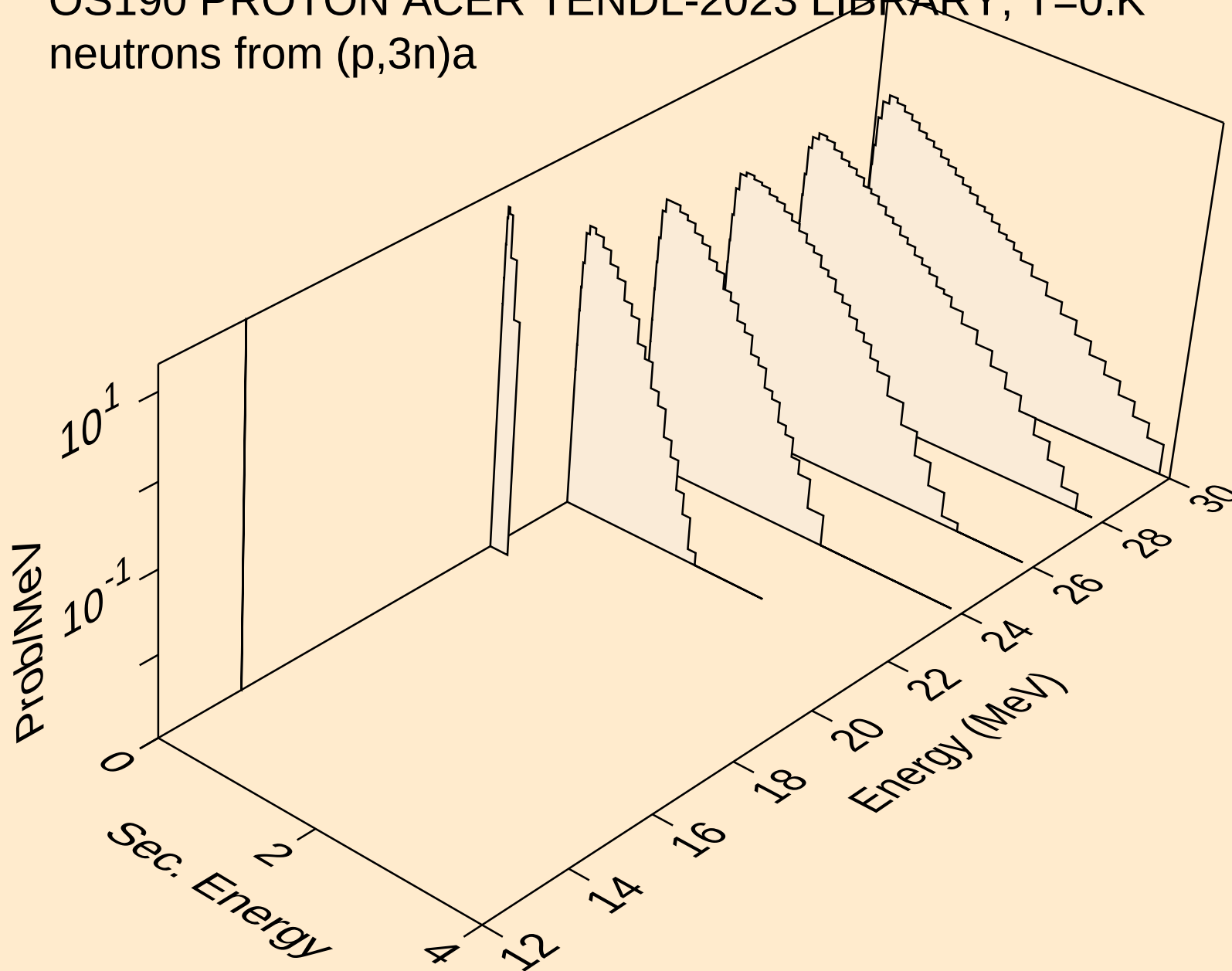


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a

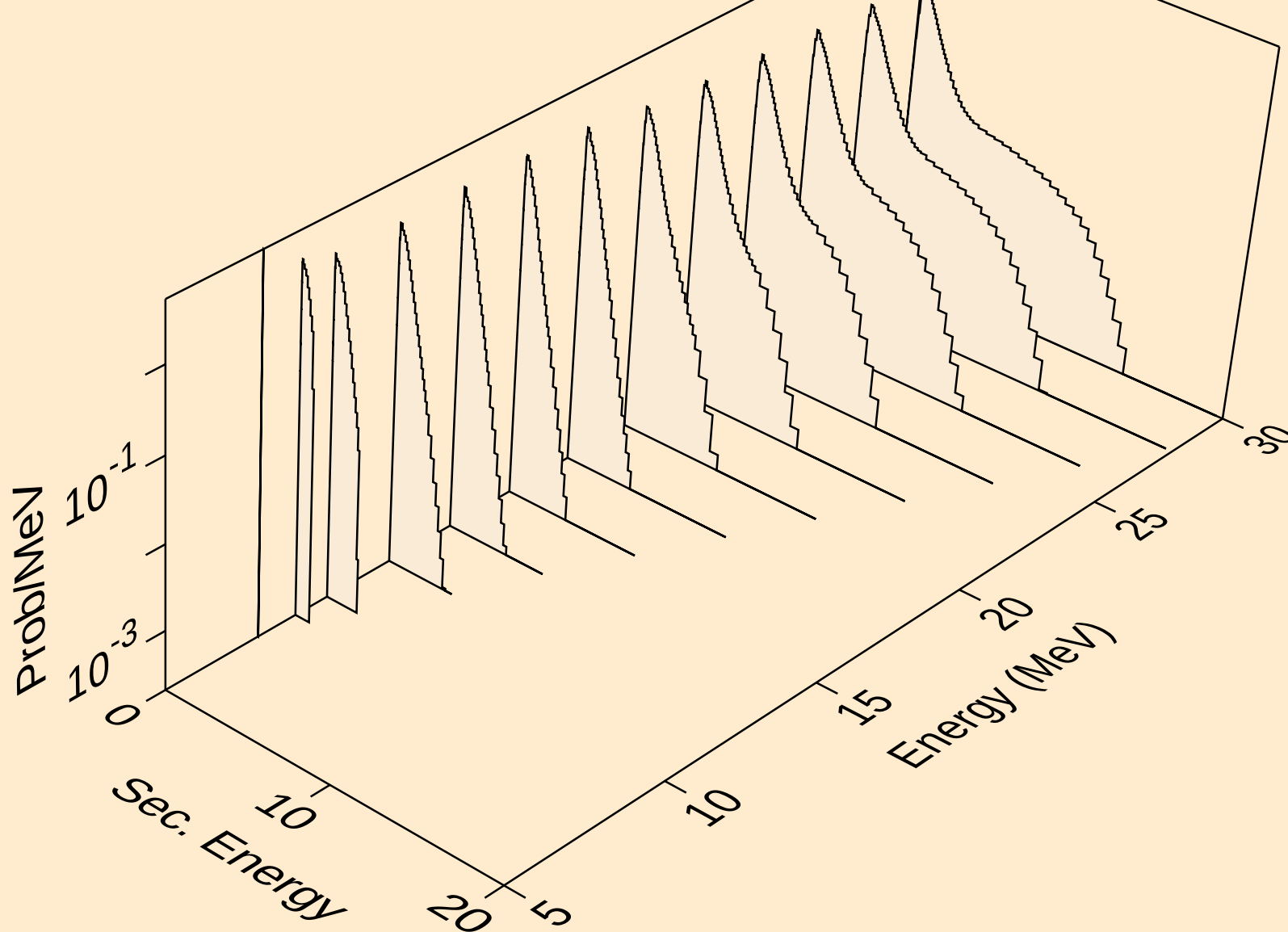




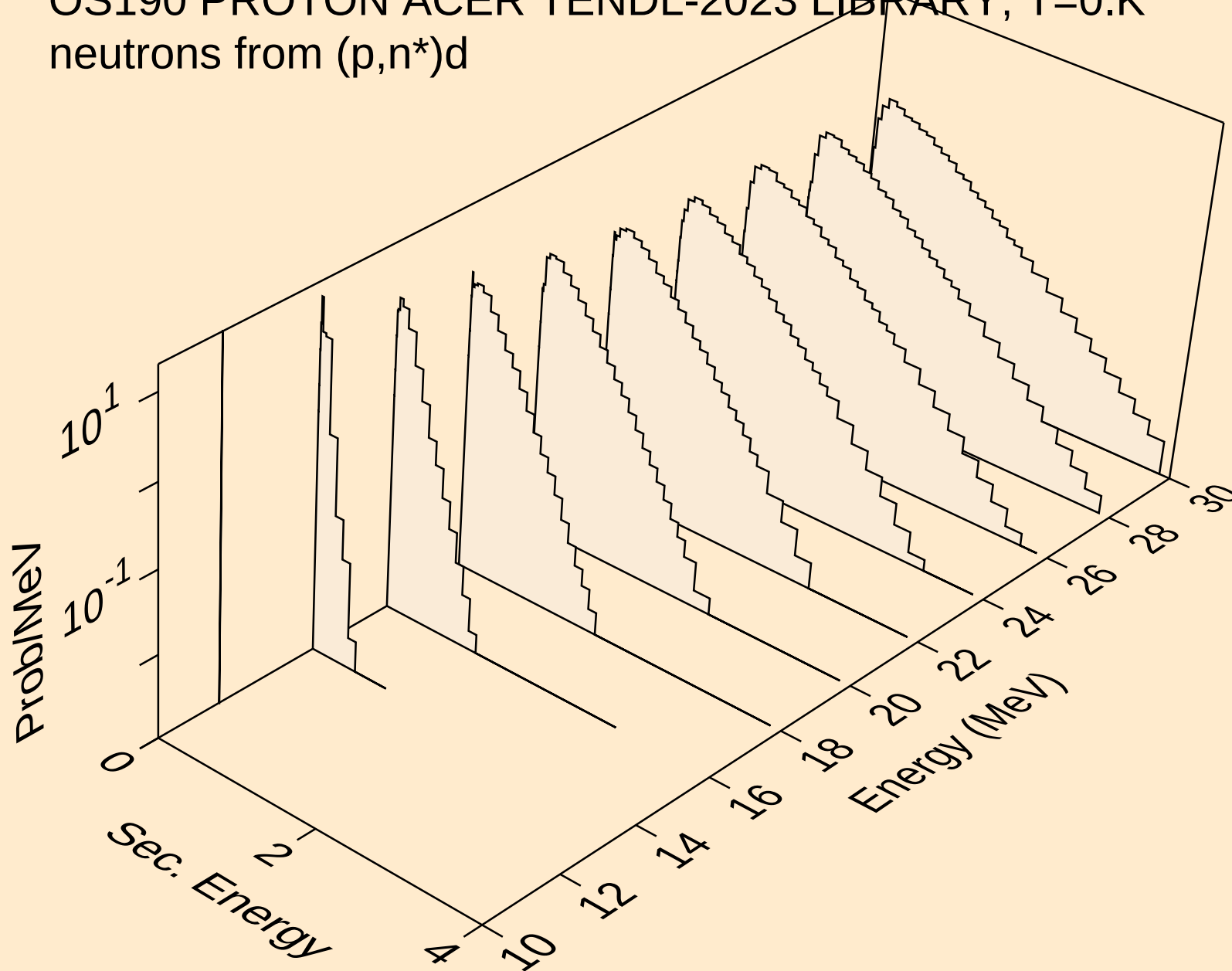
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



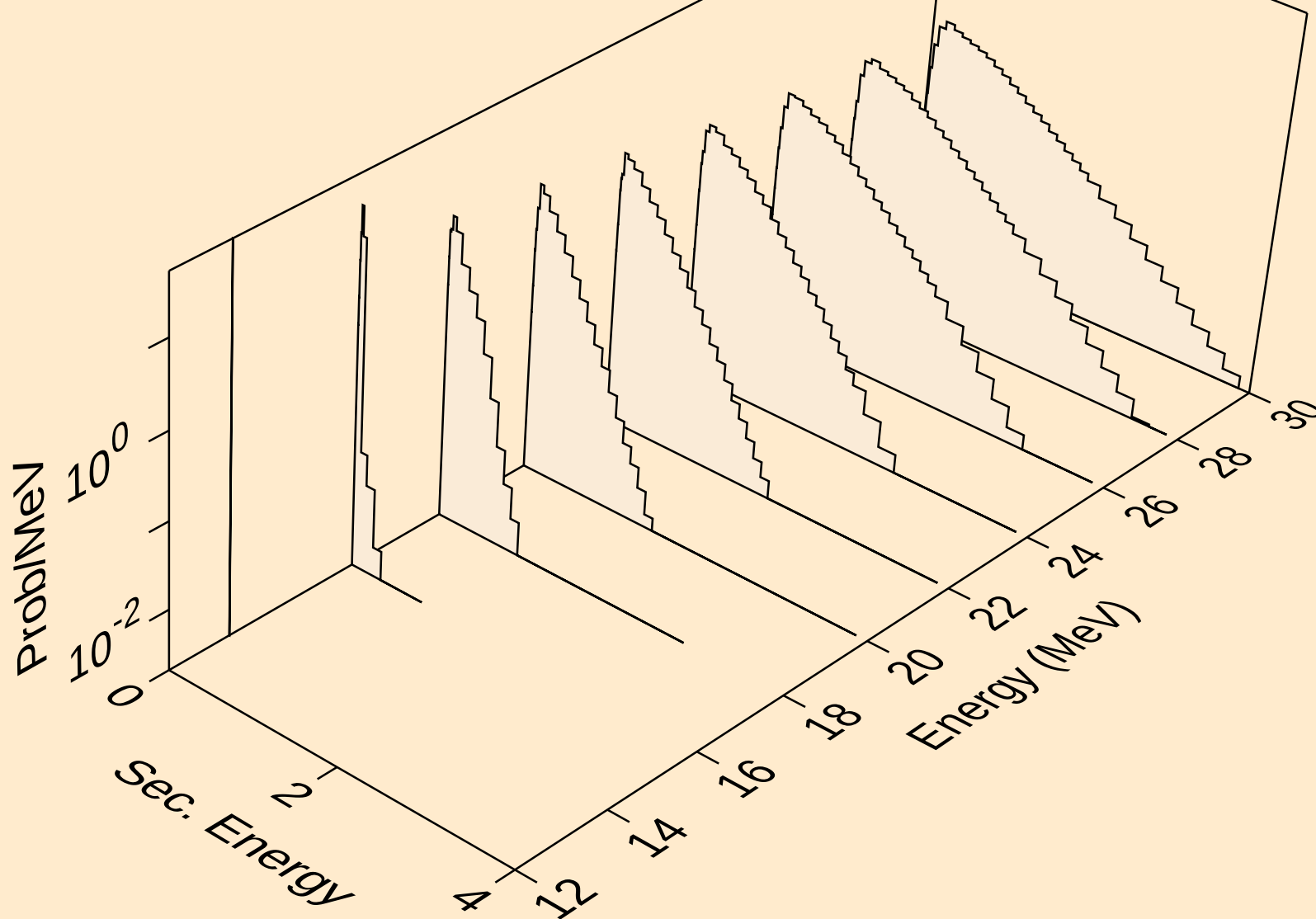
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



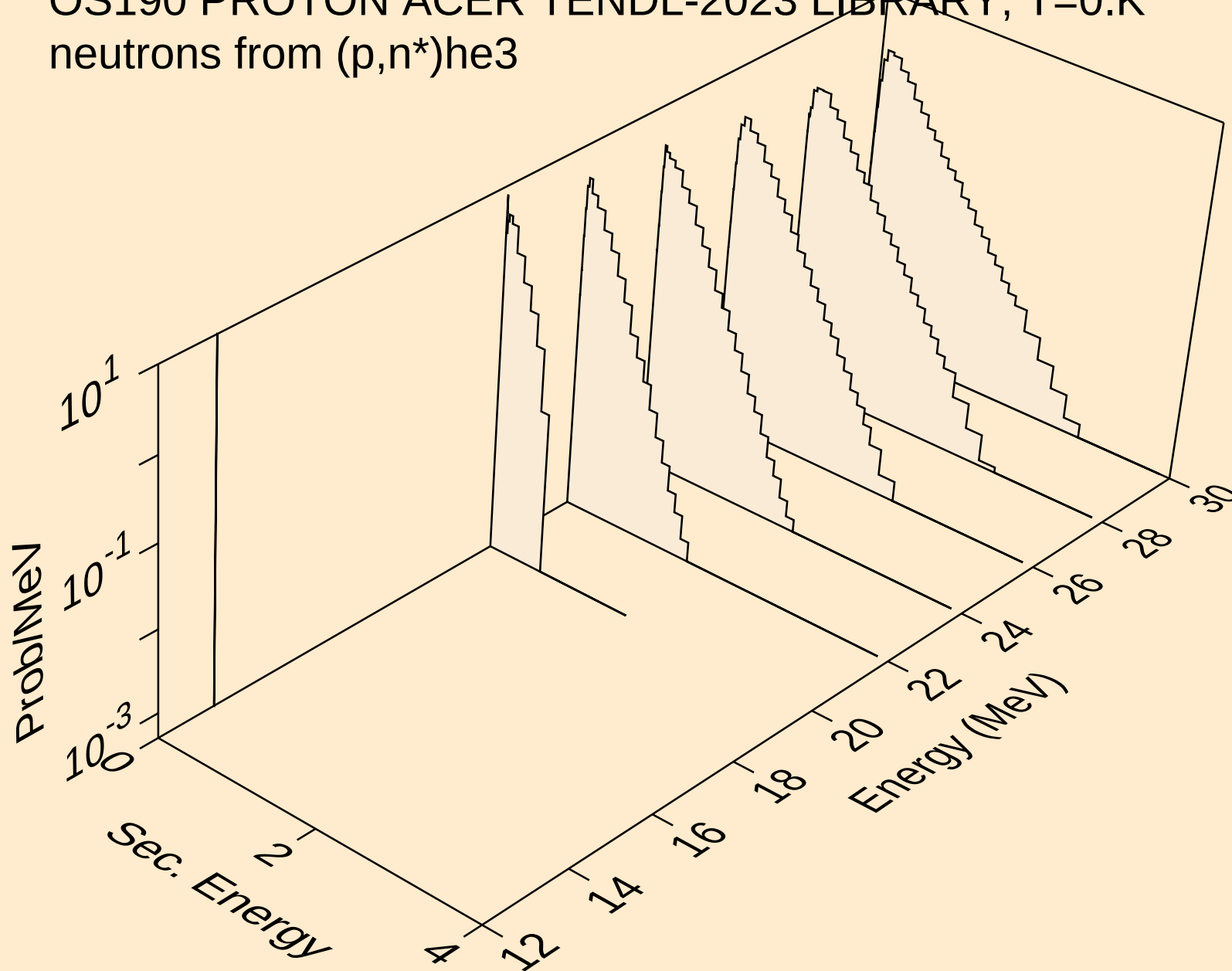
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d



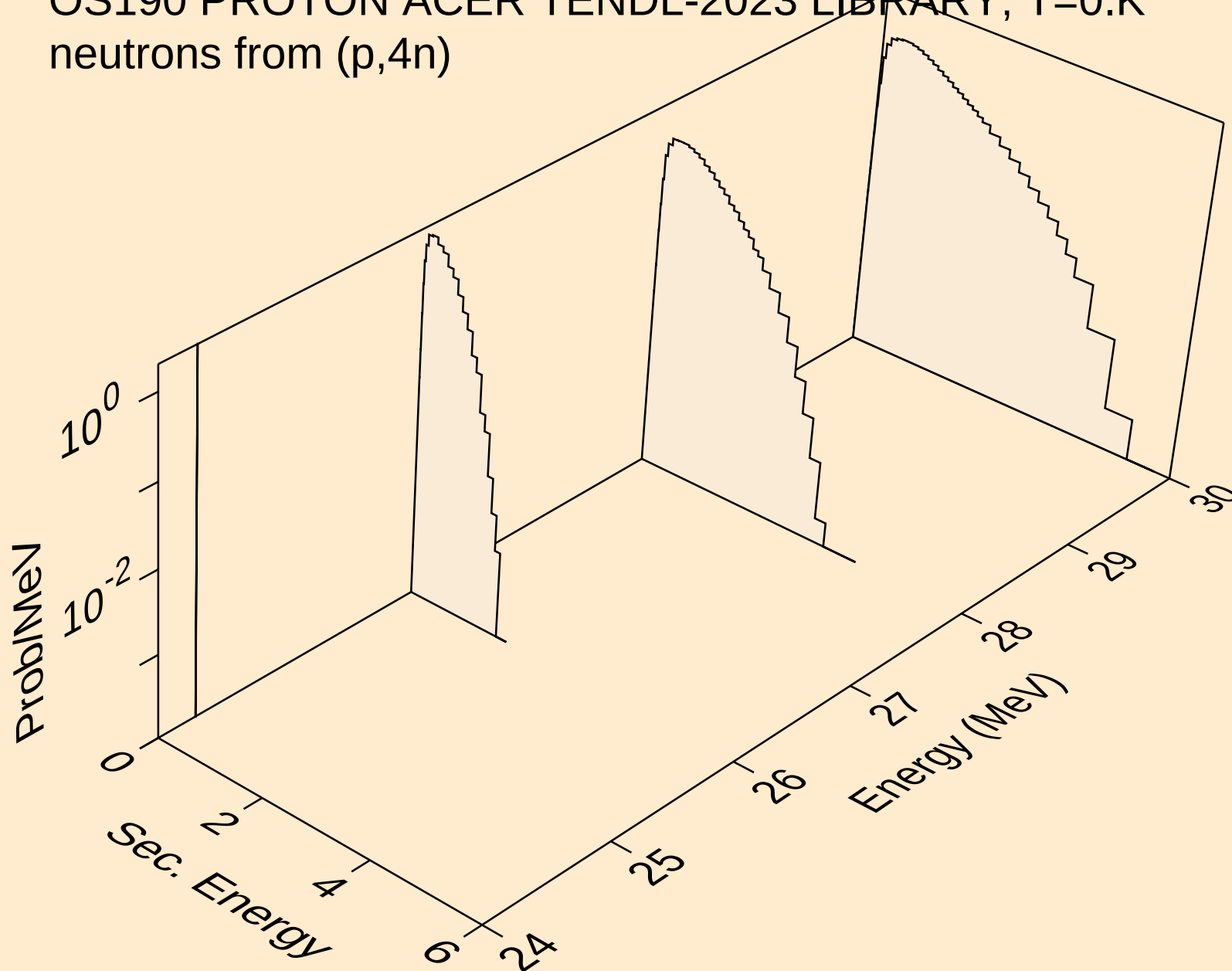
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t



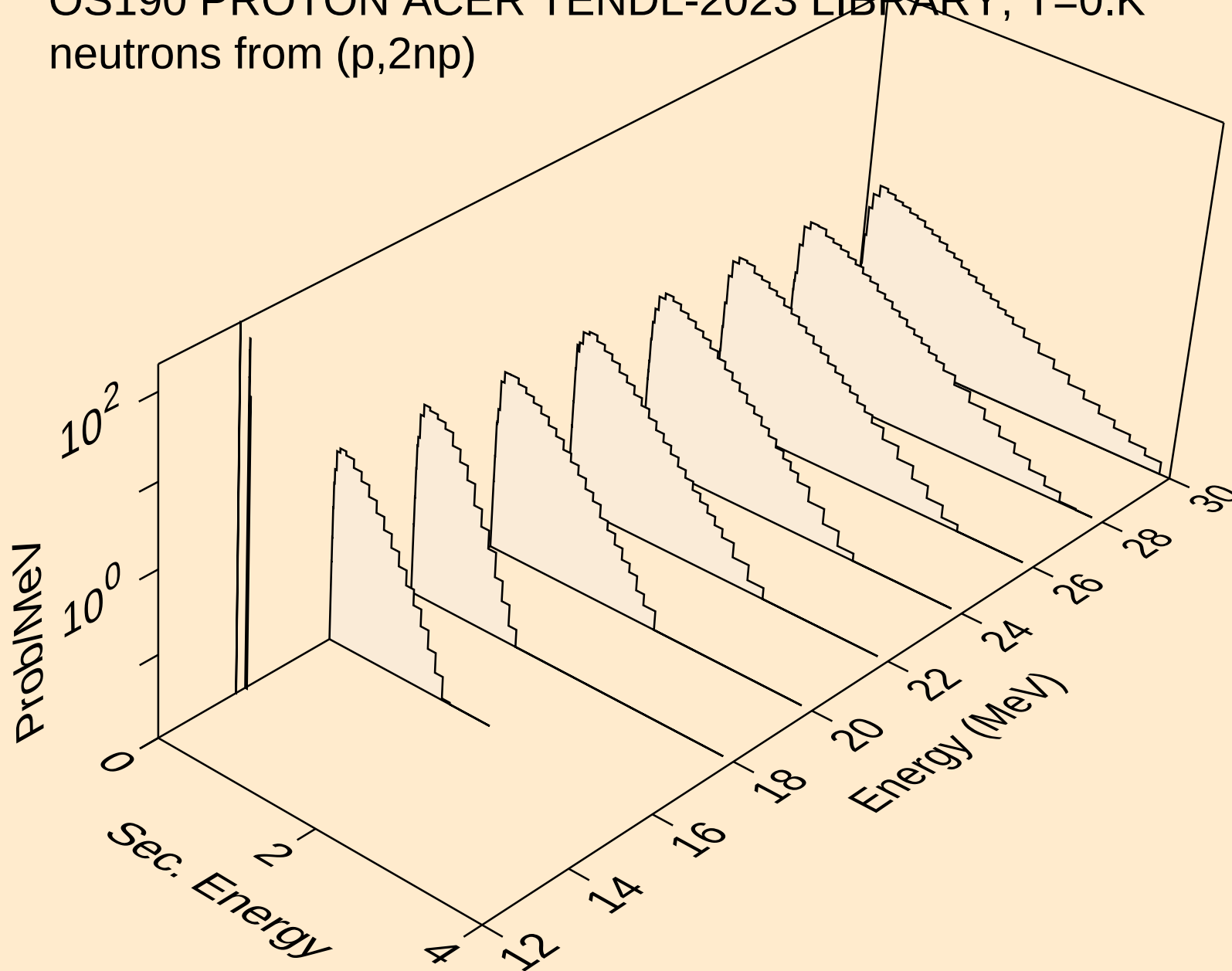
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



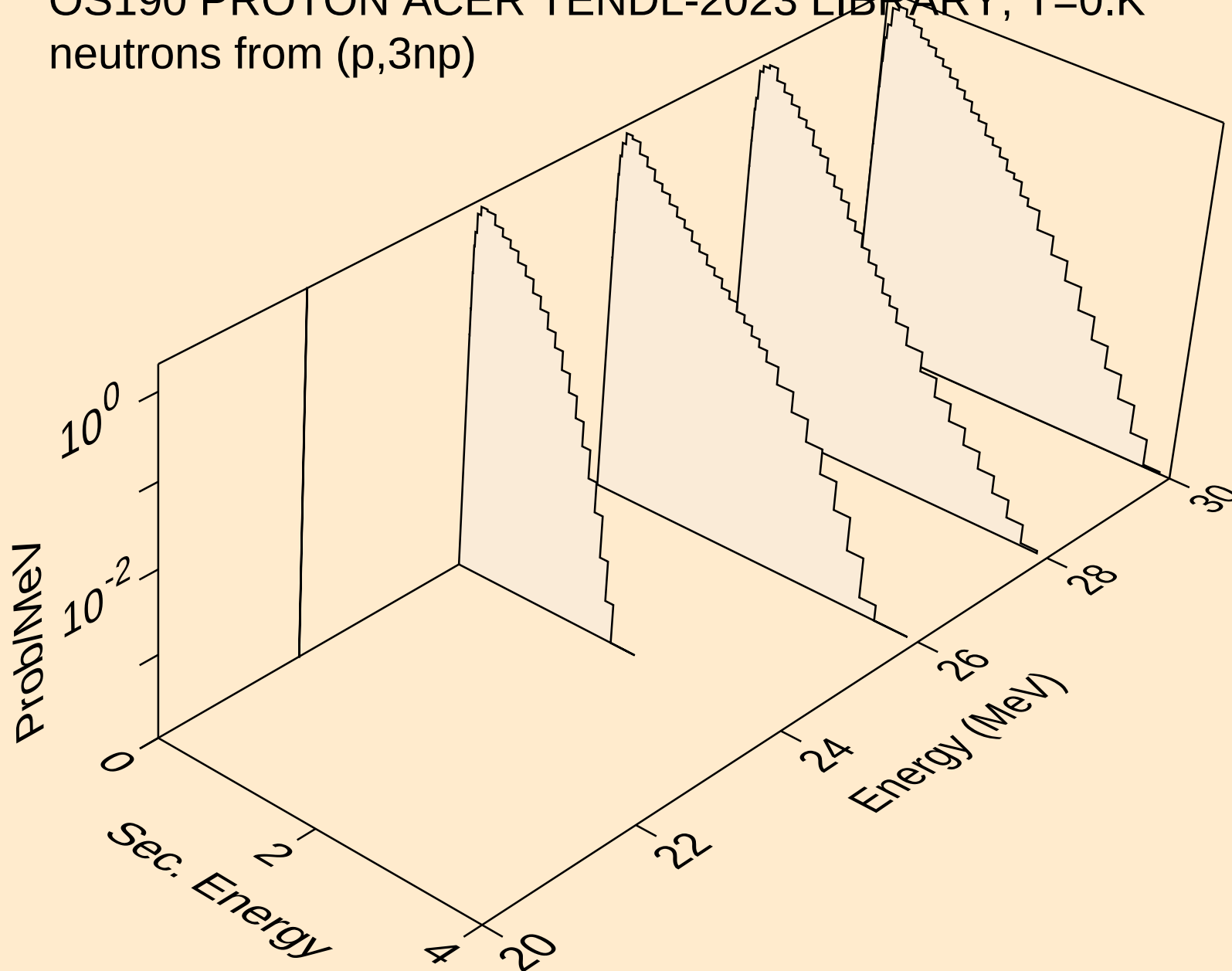
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,4n)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)

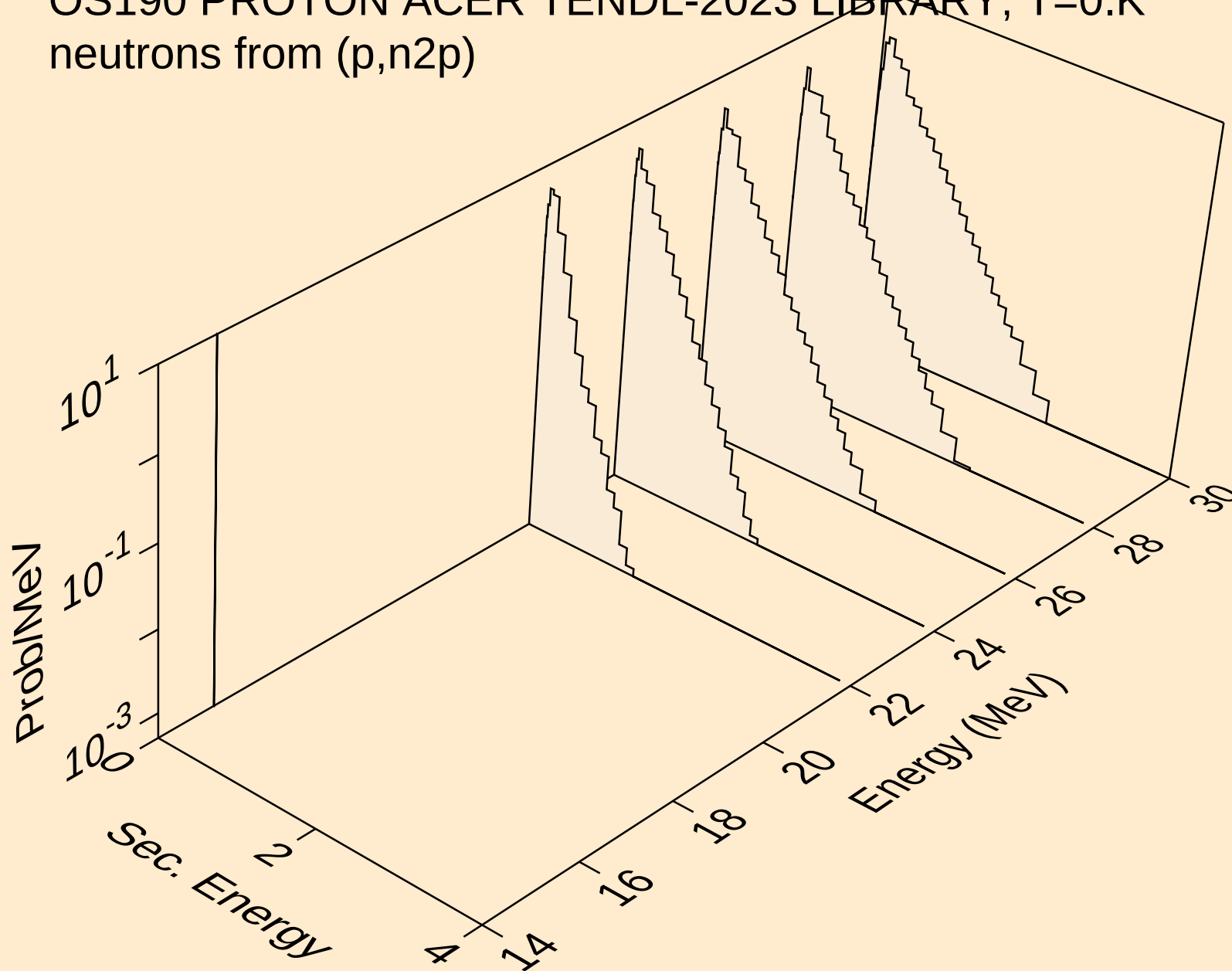


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3np)

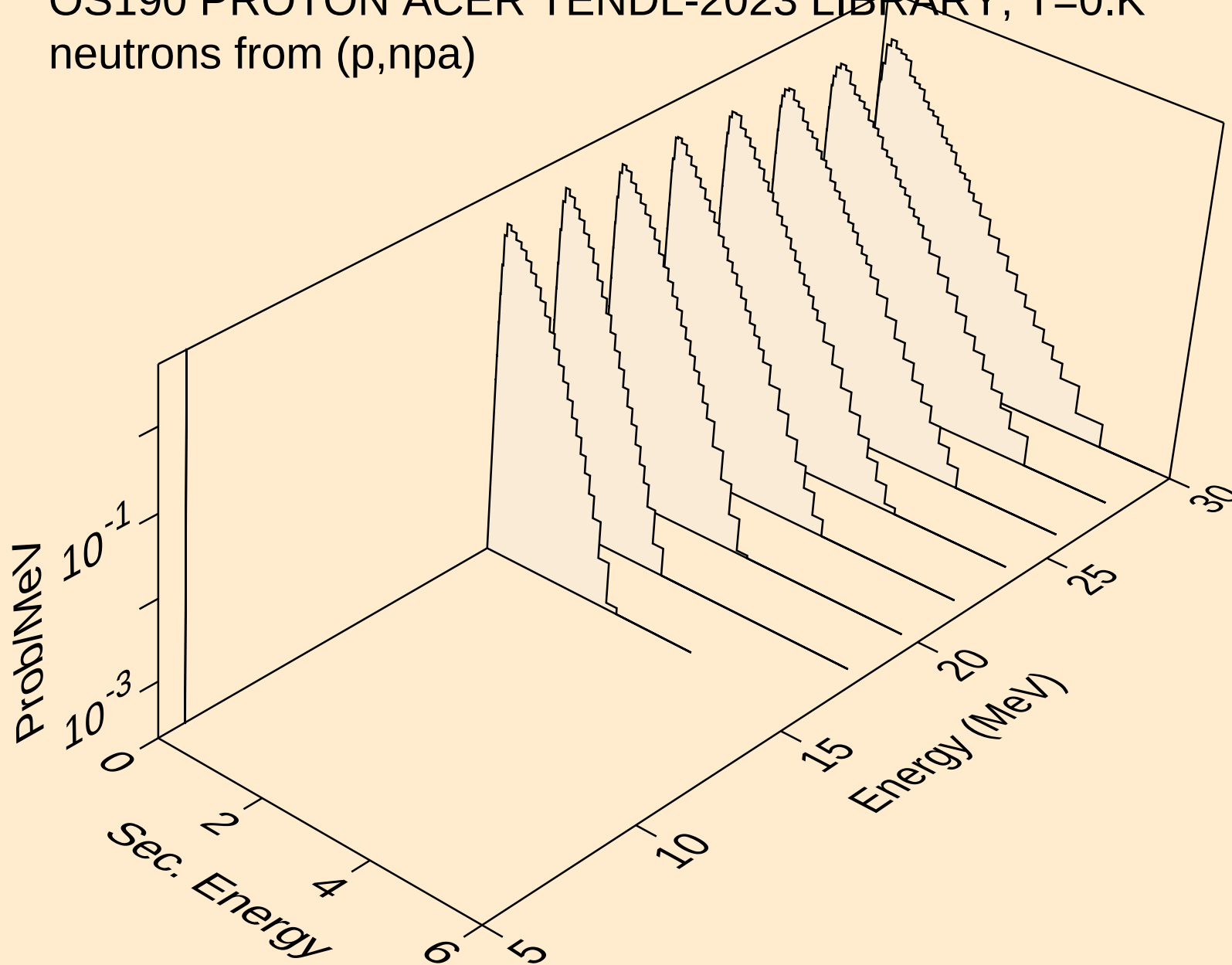




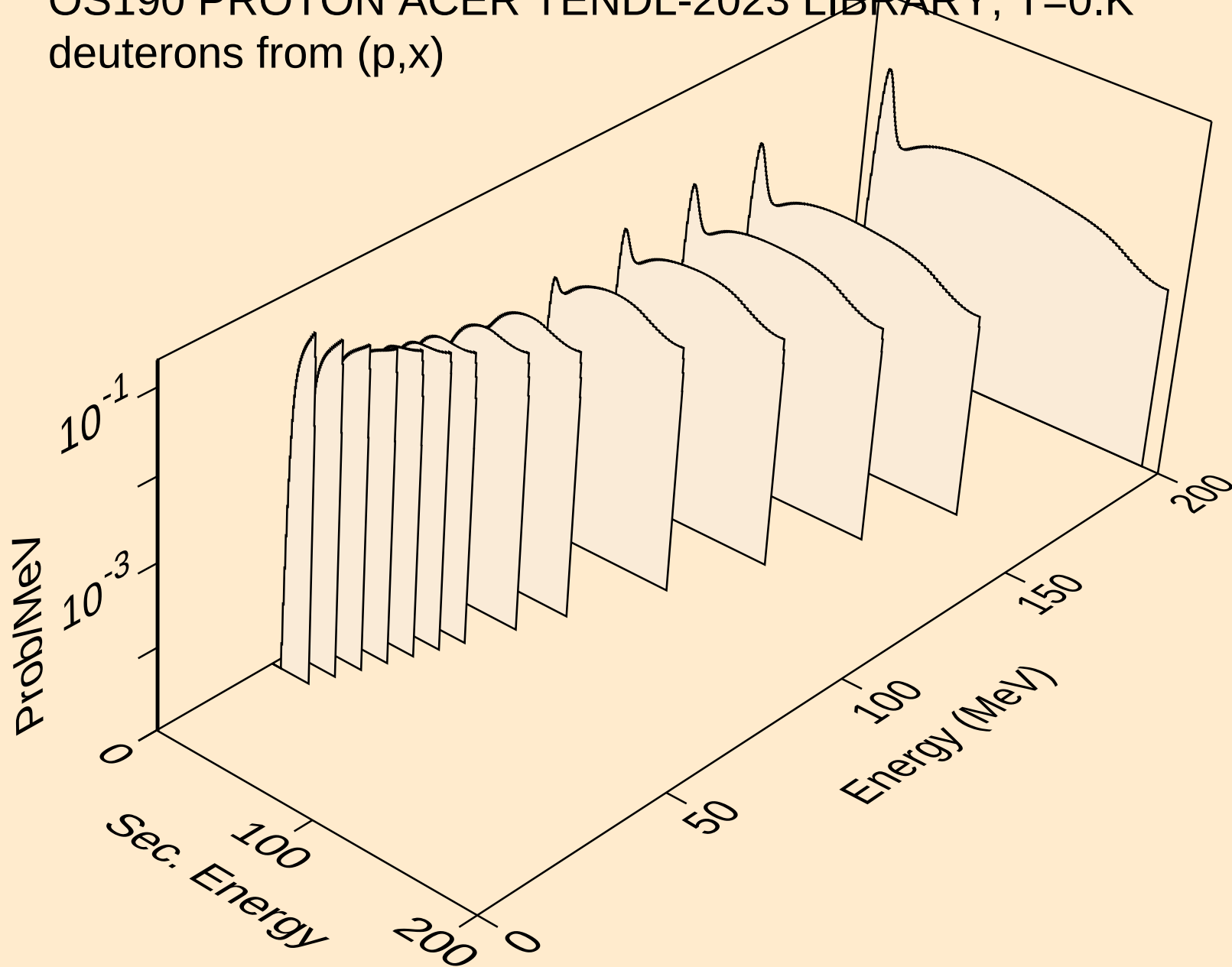
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neutrons from (p,n2p)



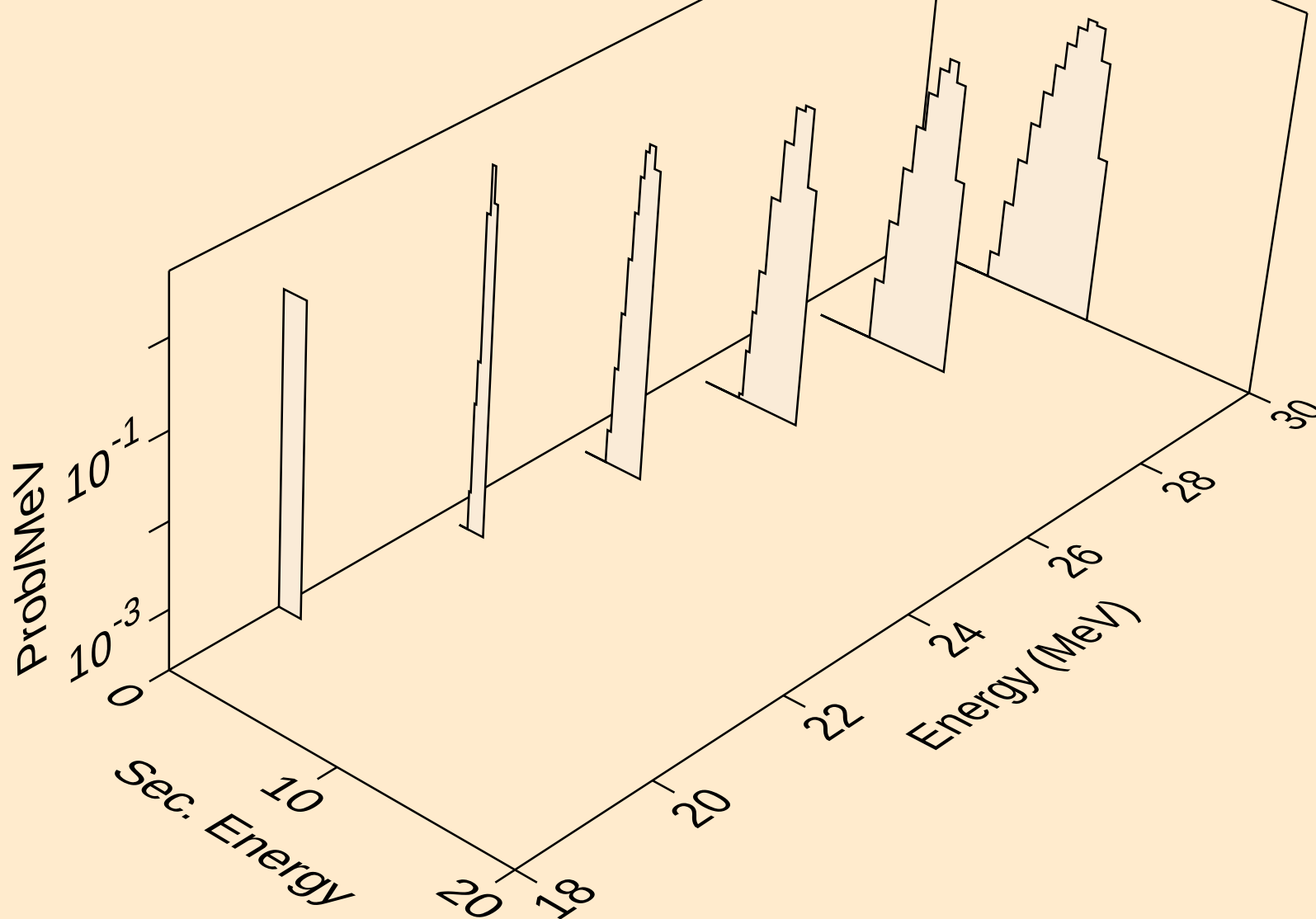
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



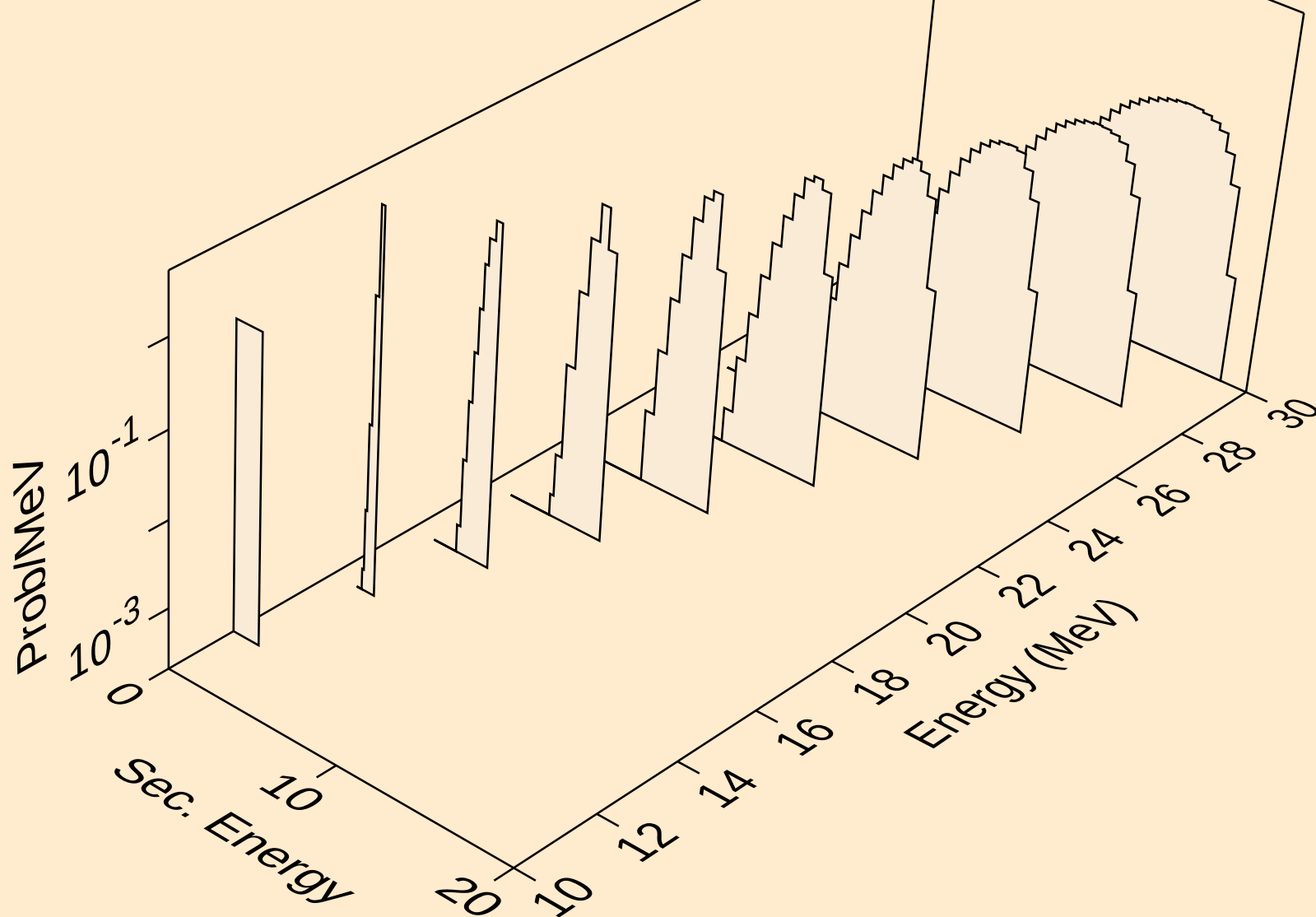
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



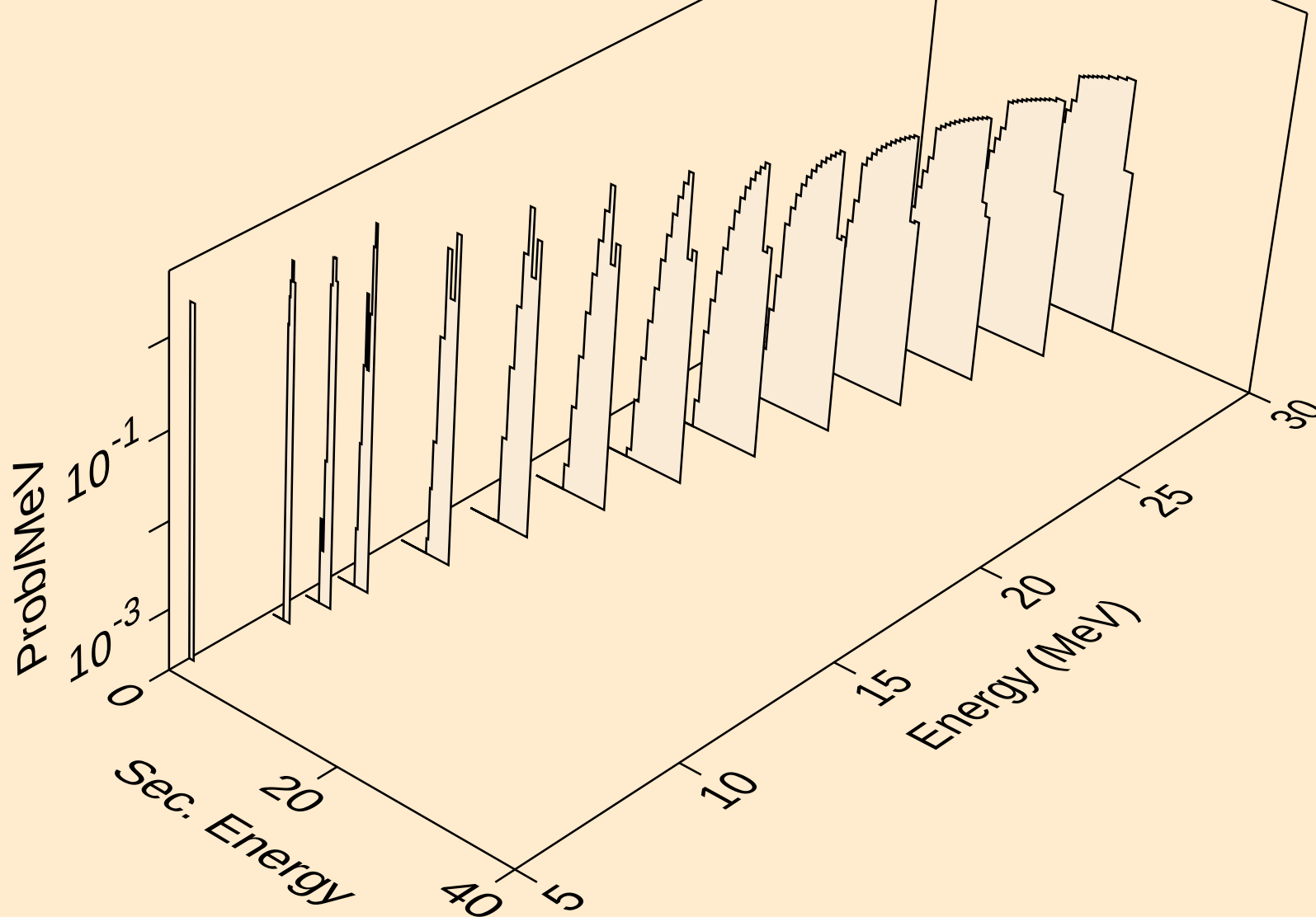
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,2nd)



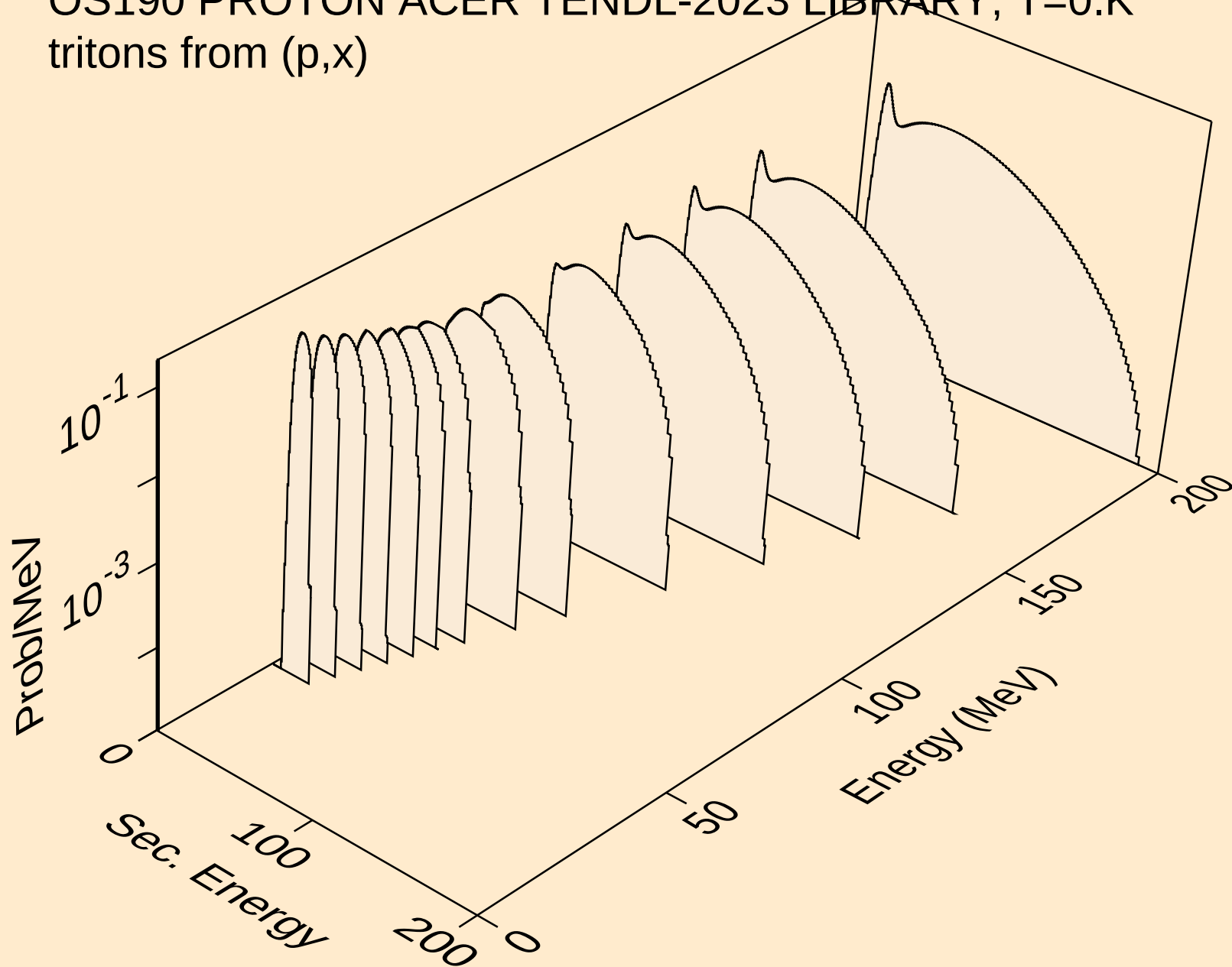
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



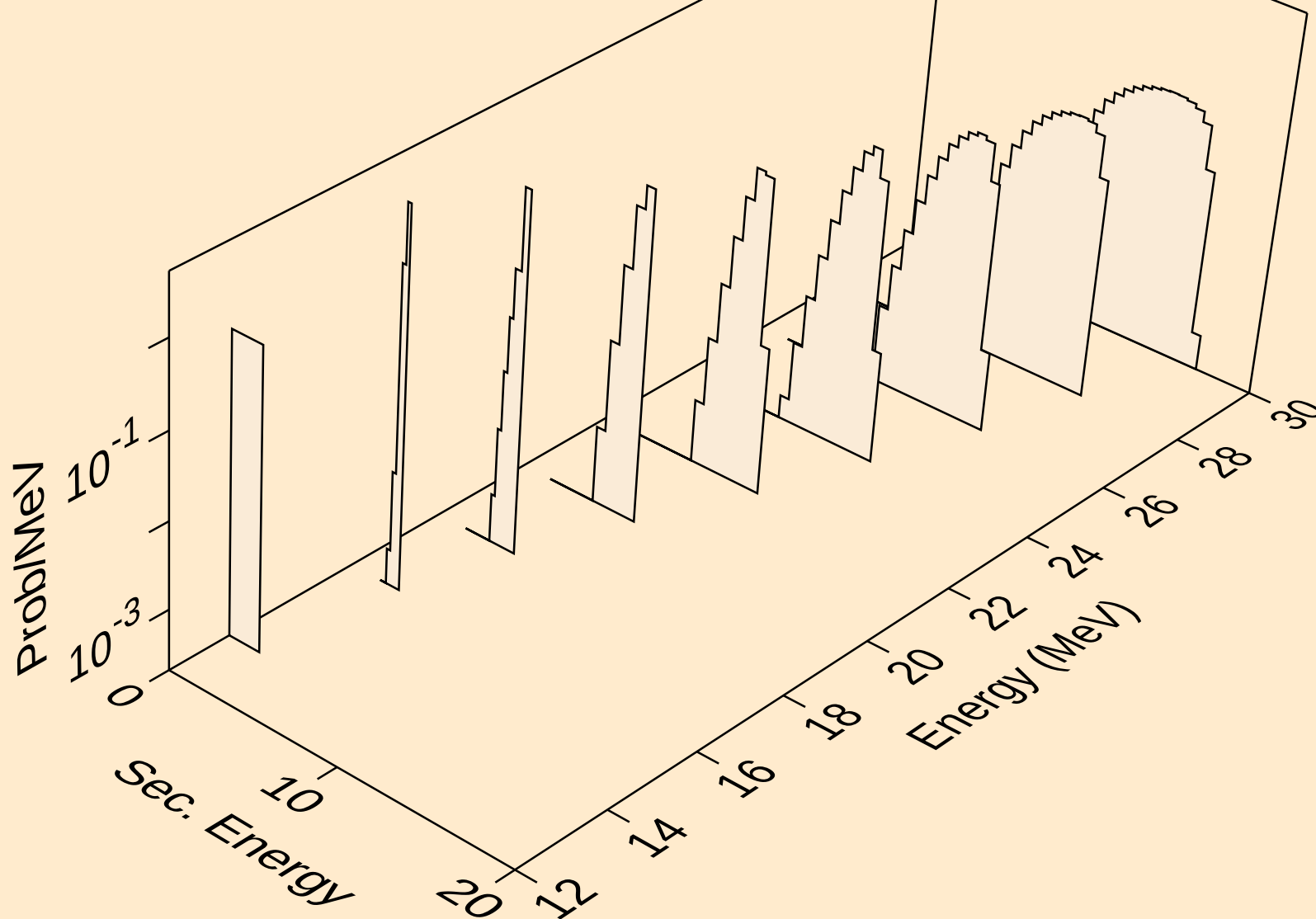
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)

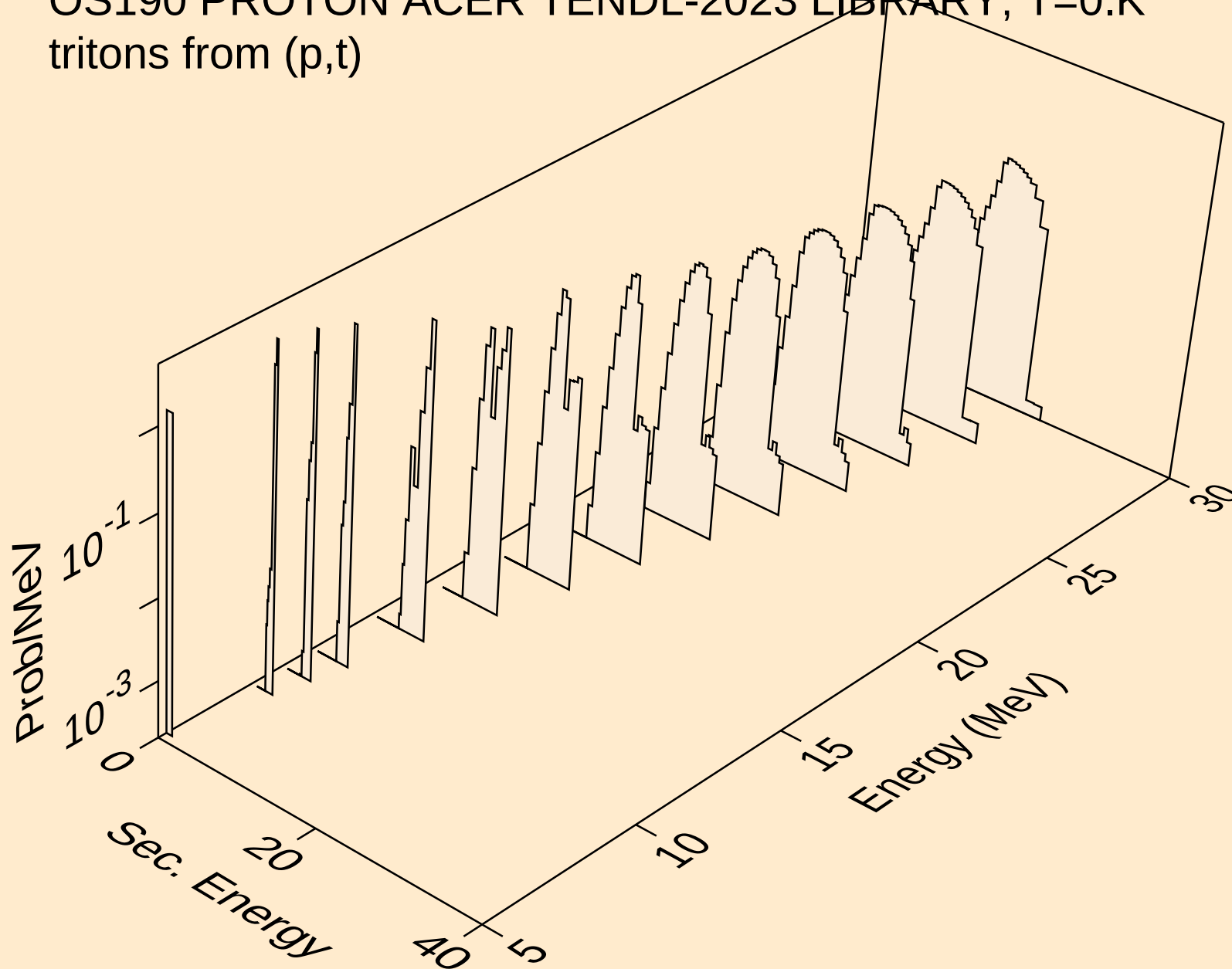


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t

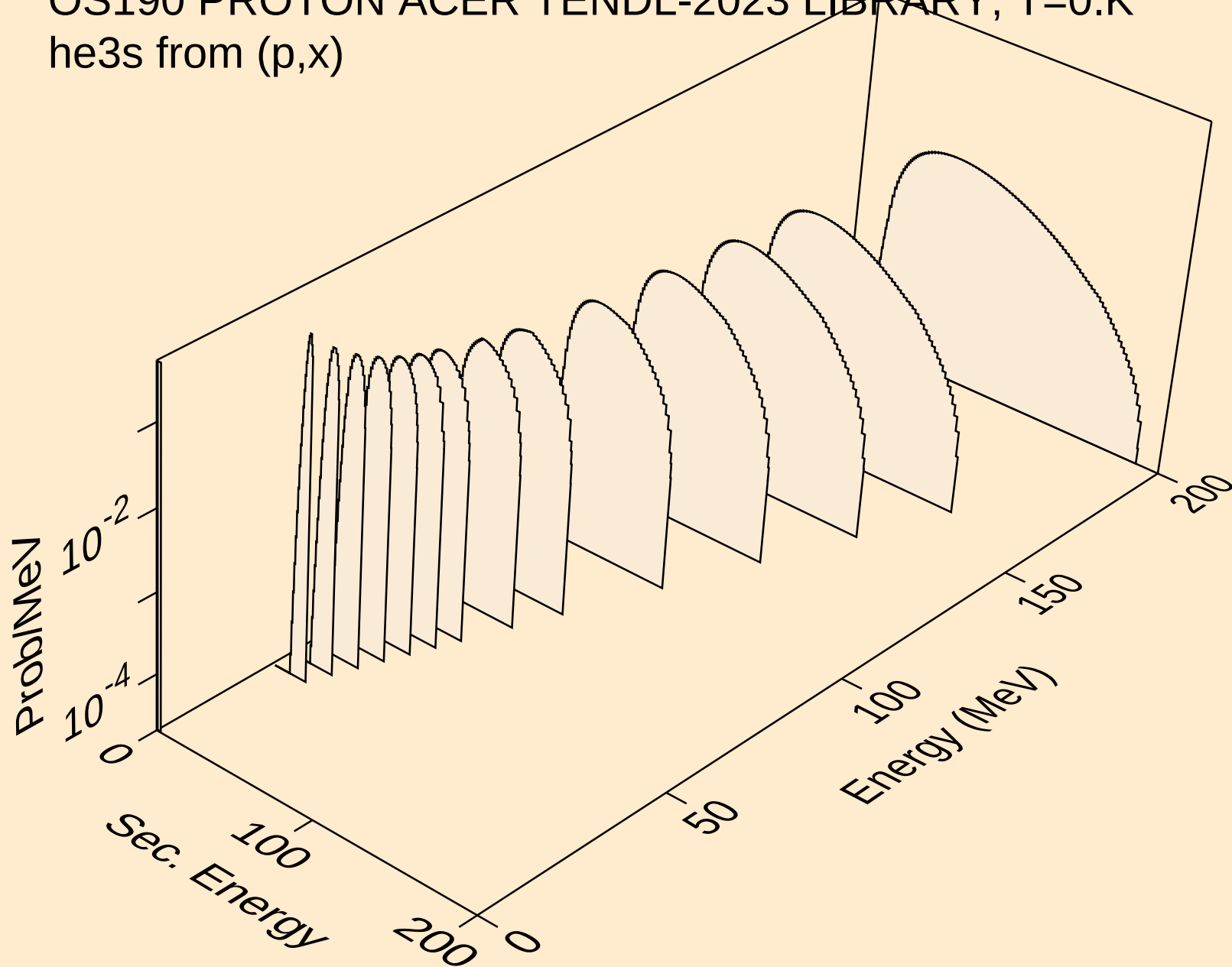




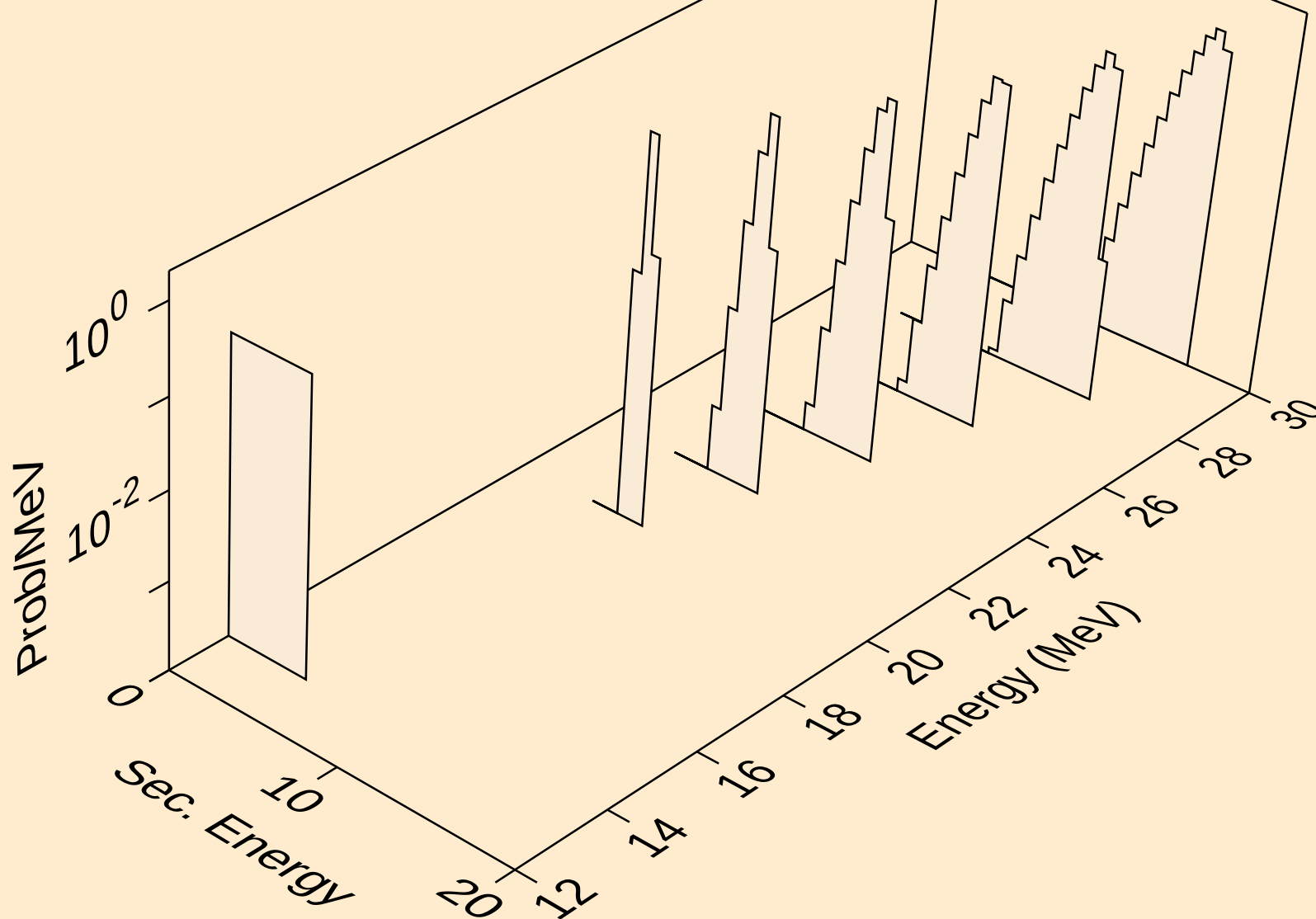
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



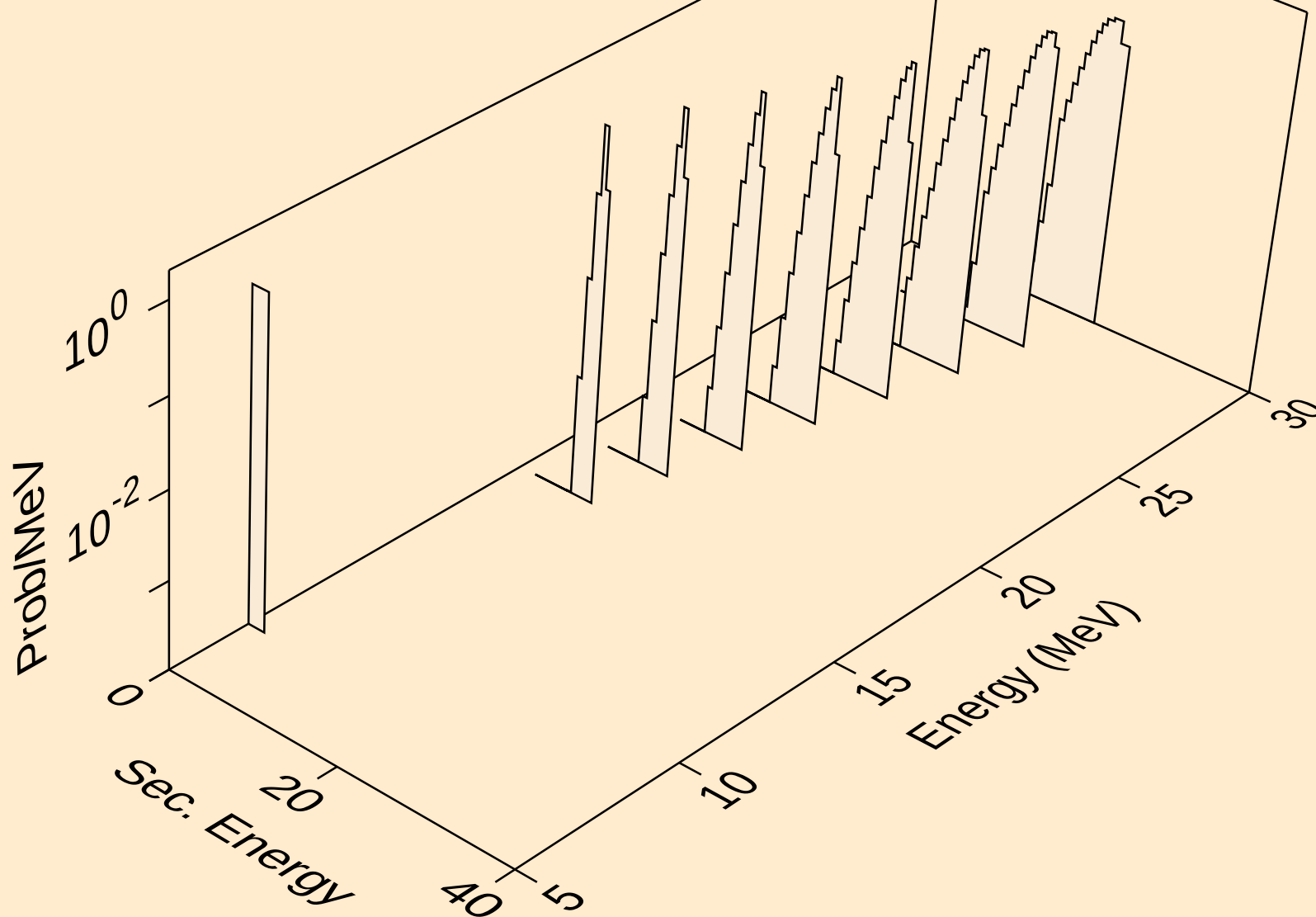
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



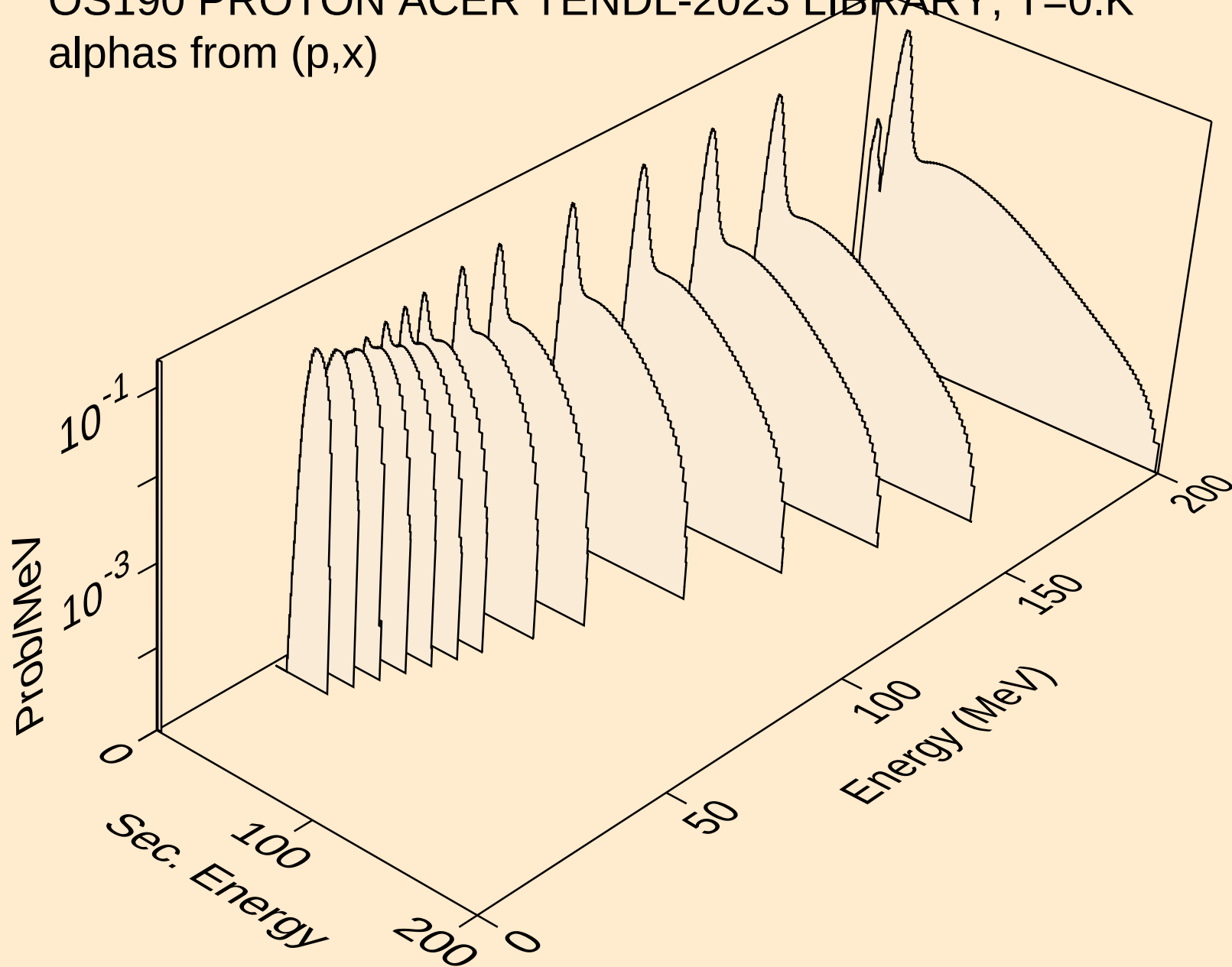
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



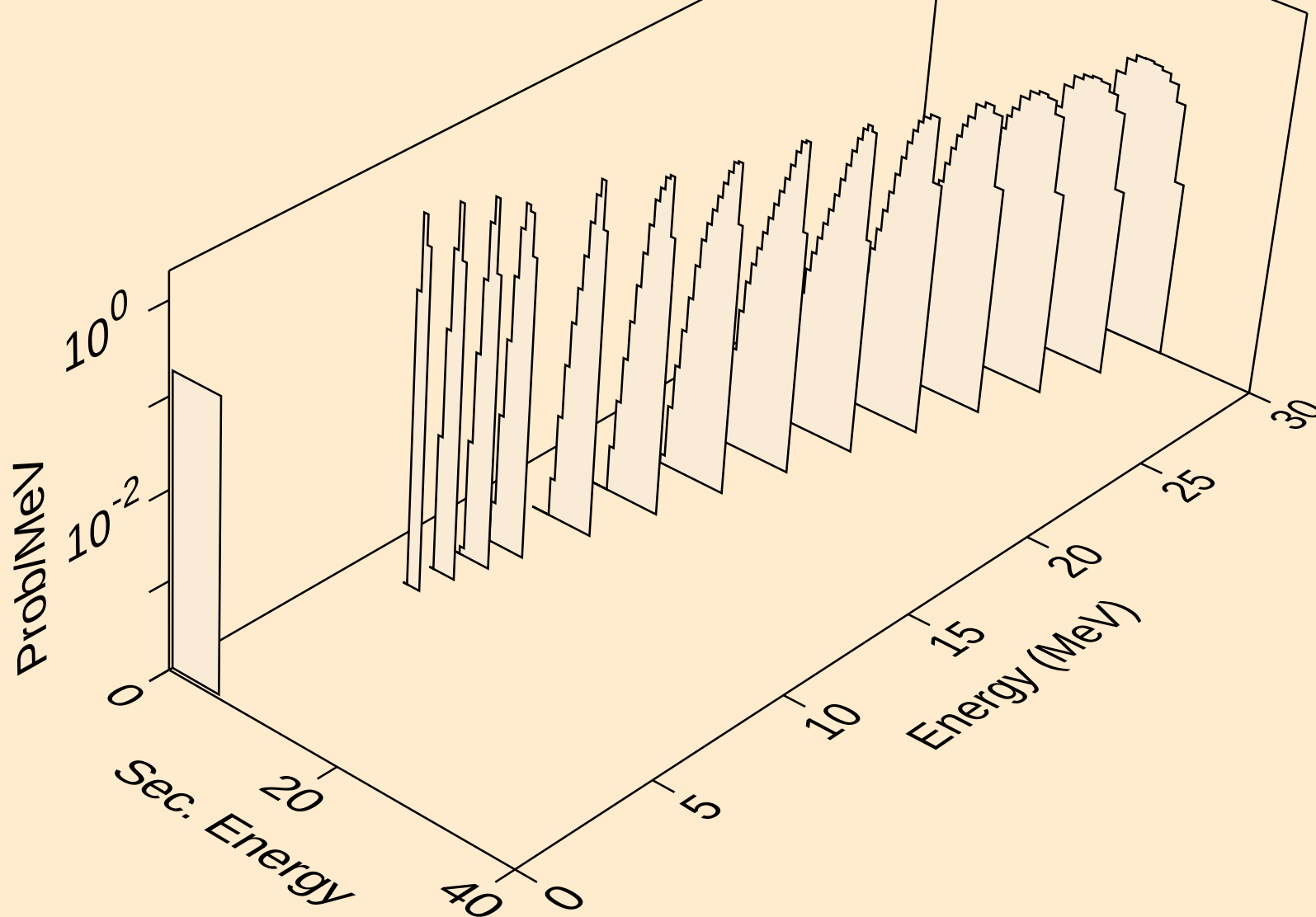
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)



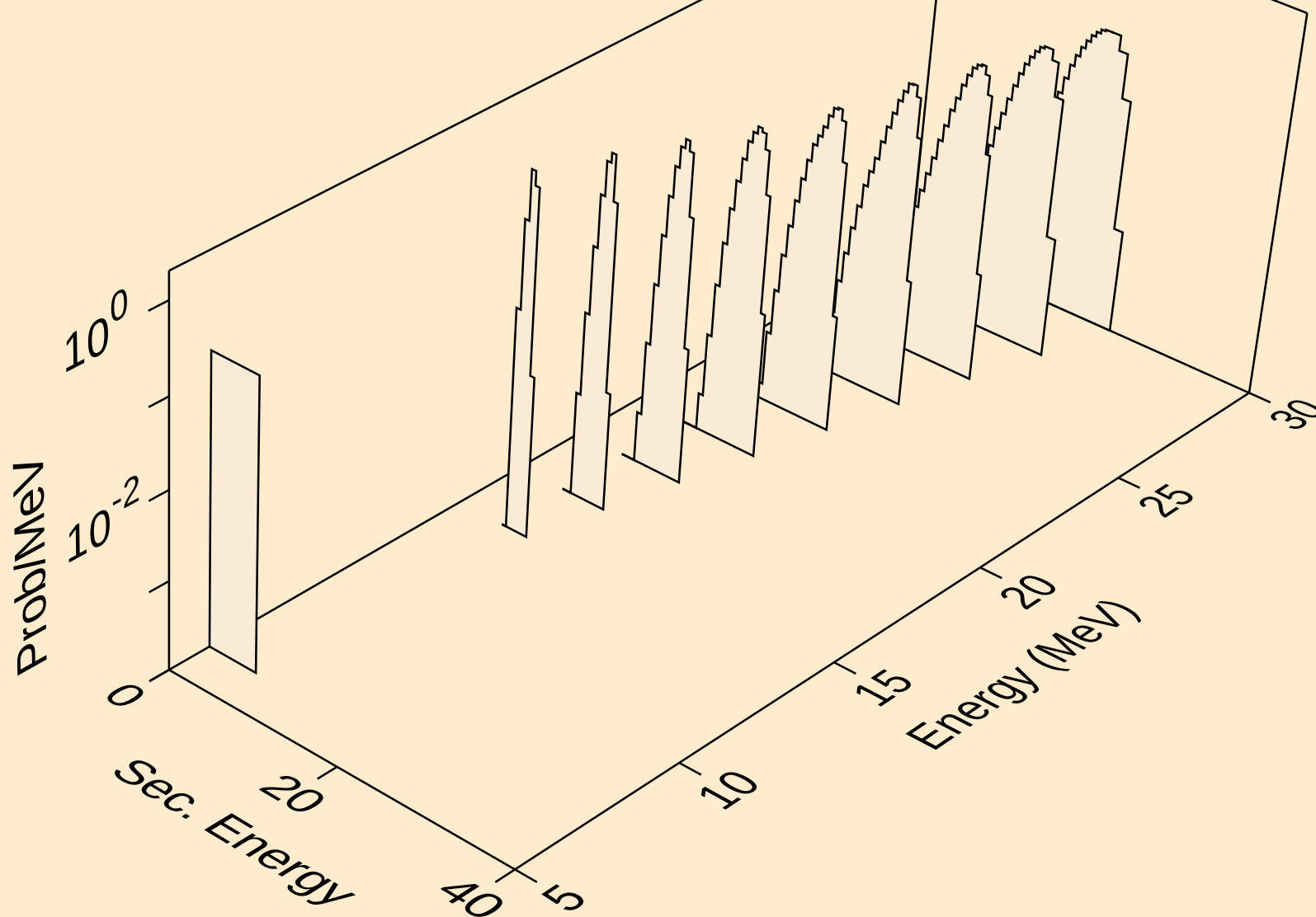
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)



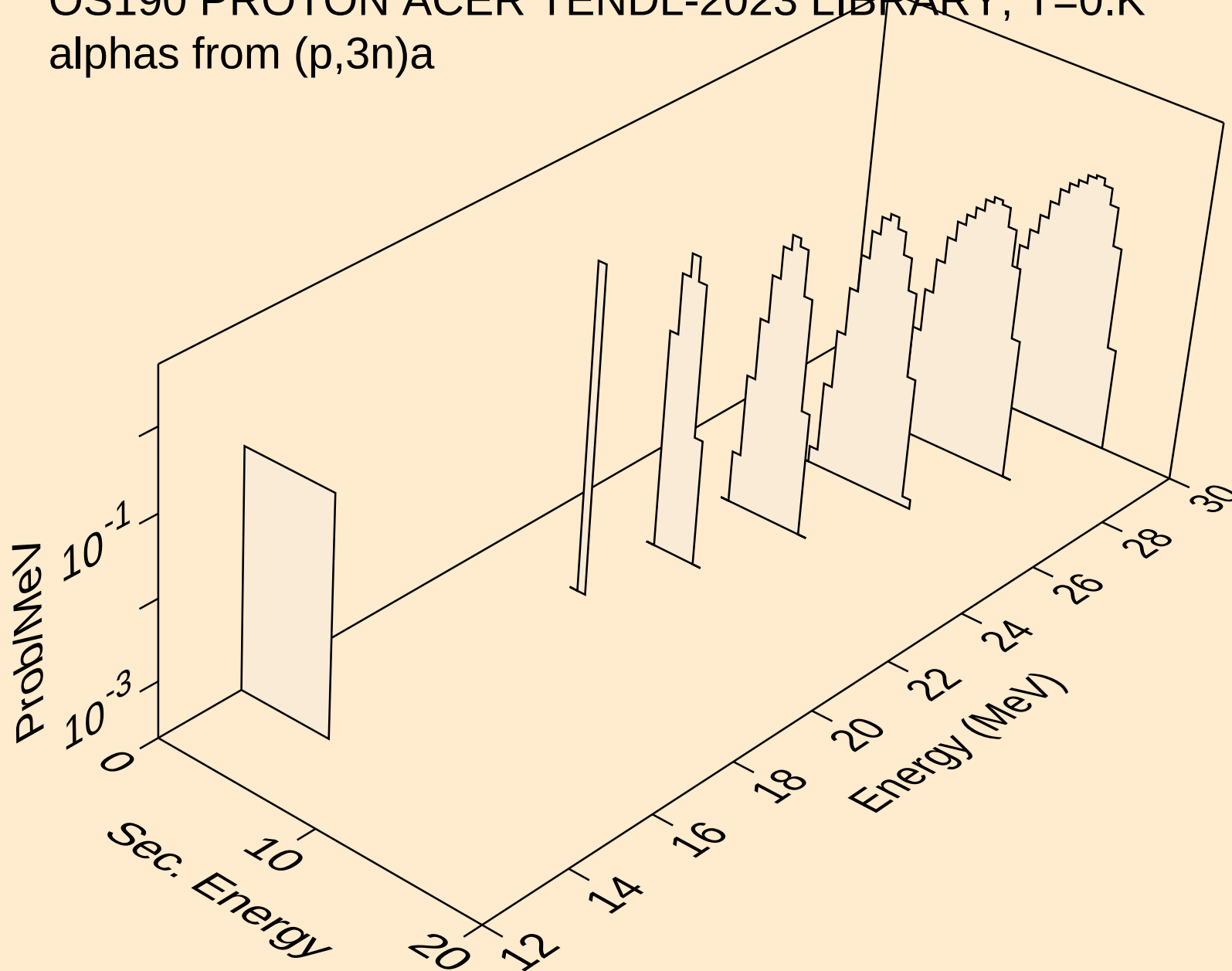
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a

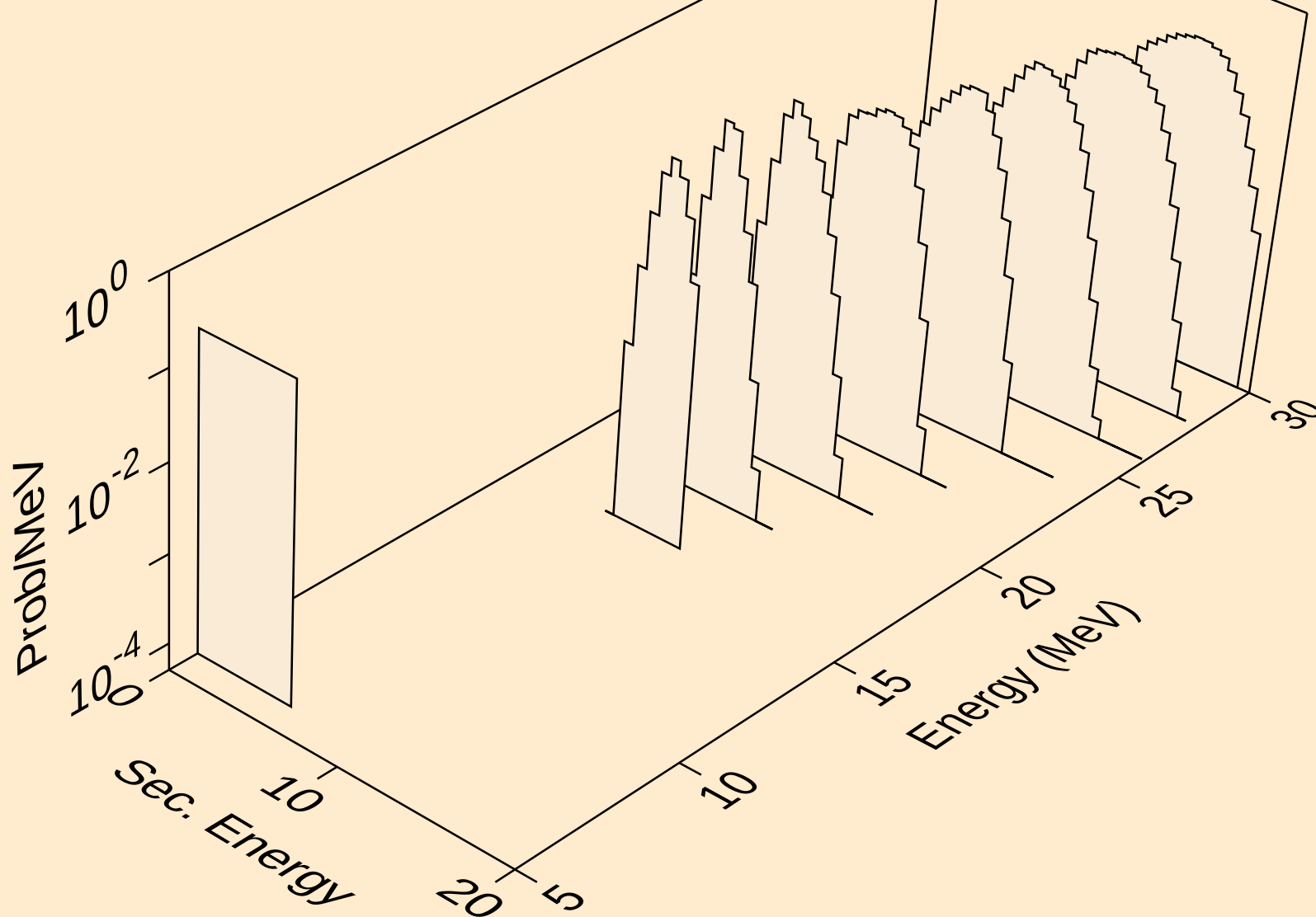


OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a

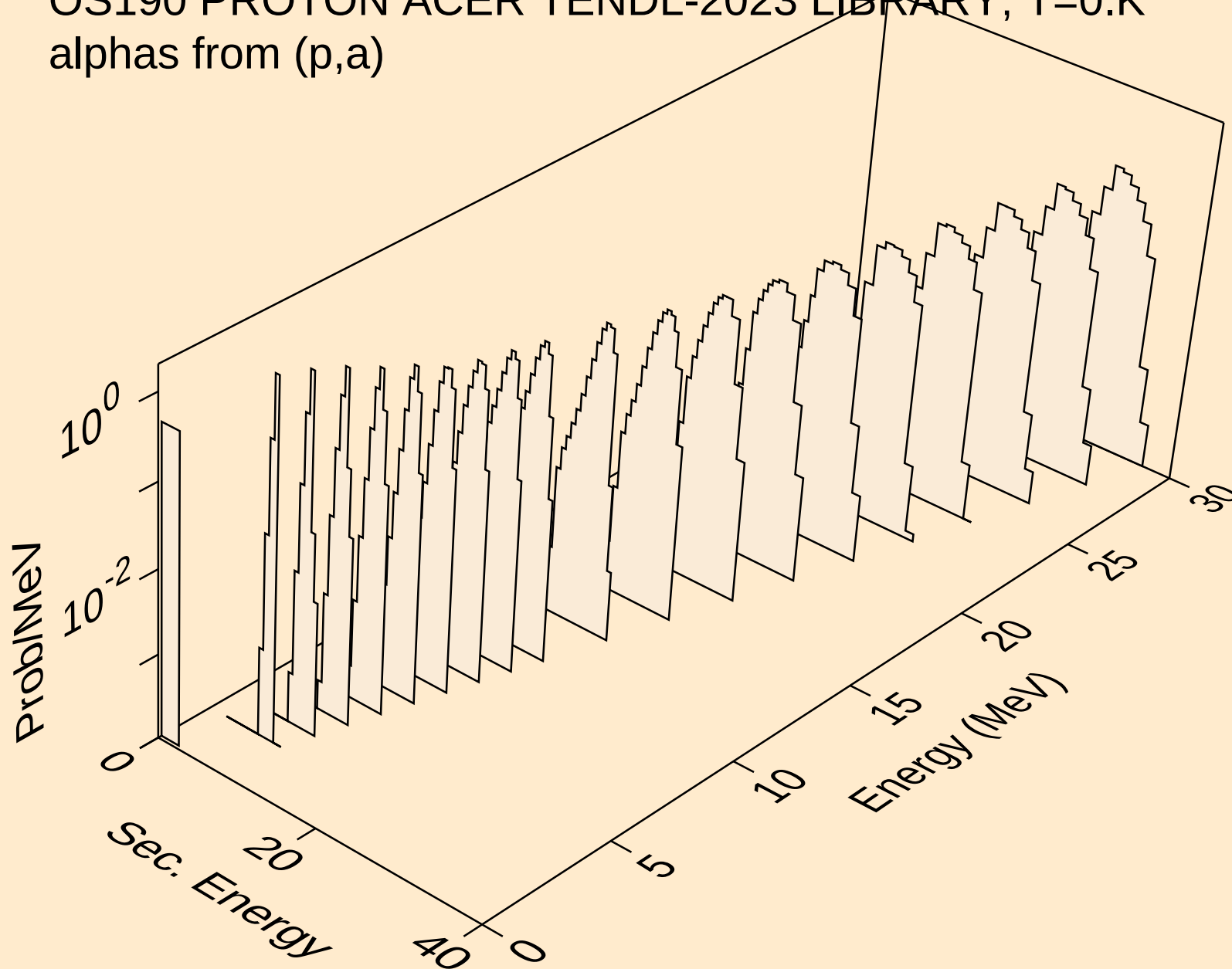




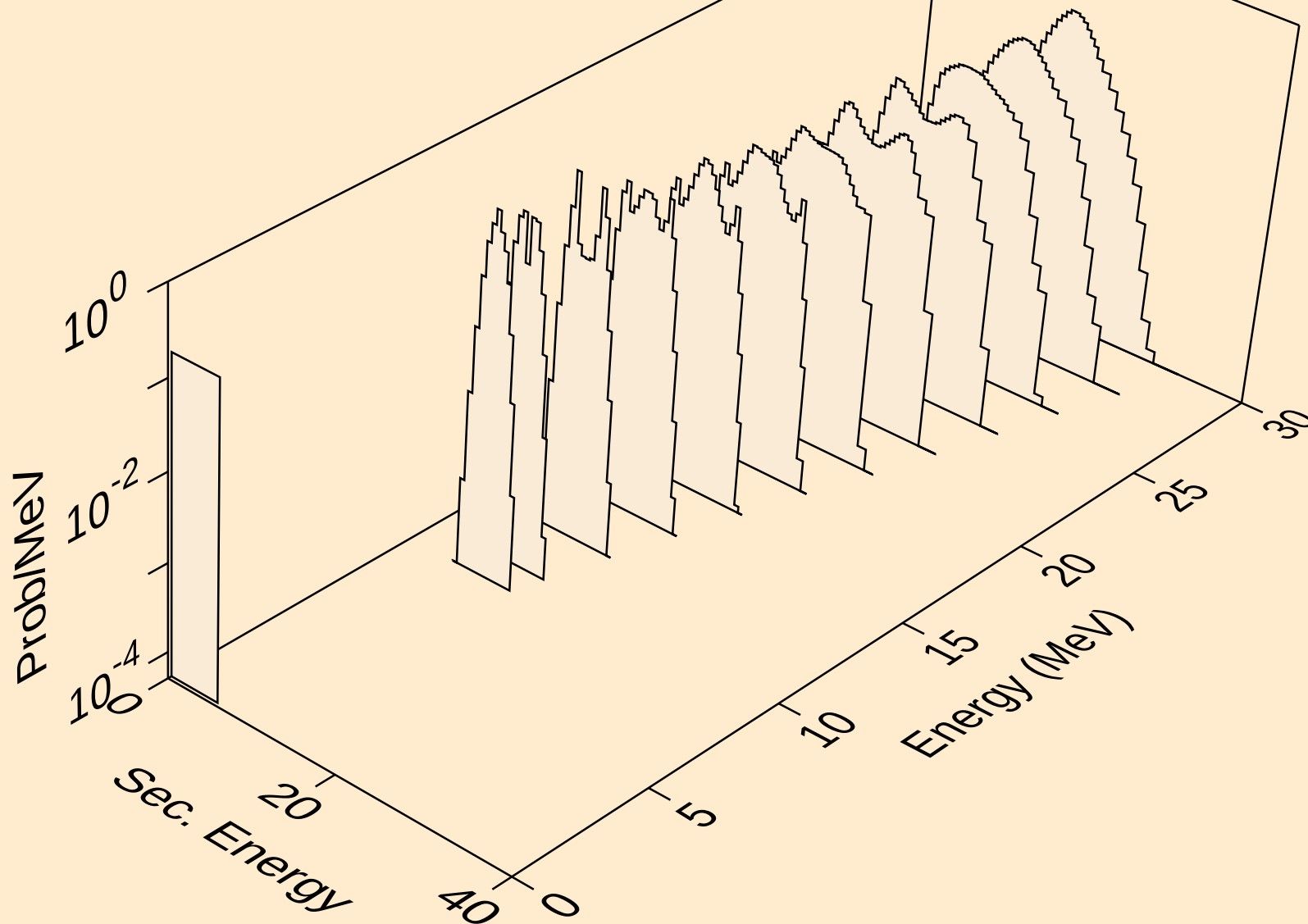
OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)



OS190 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)

