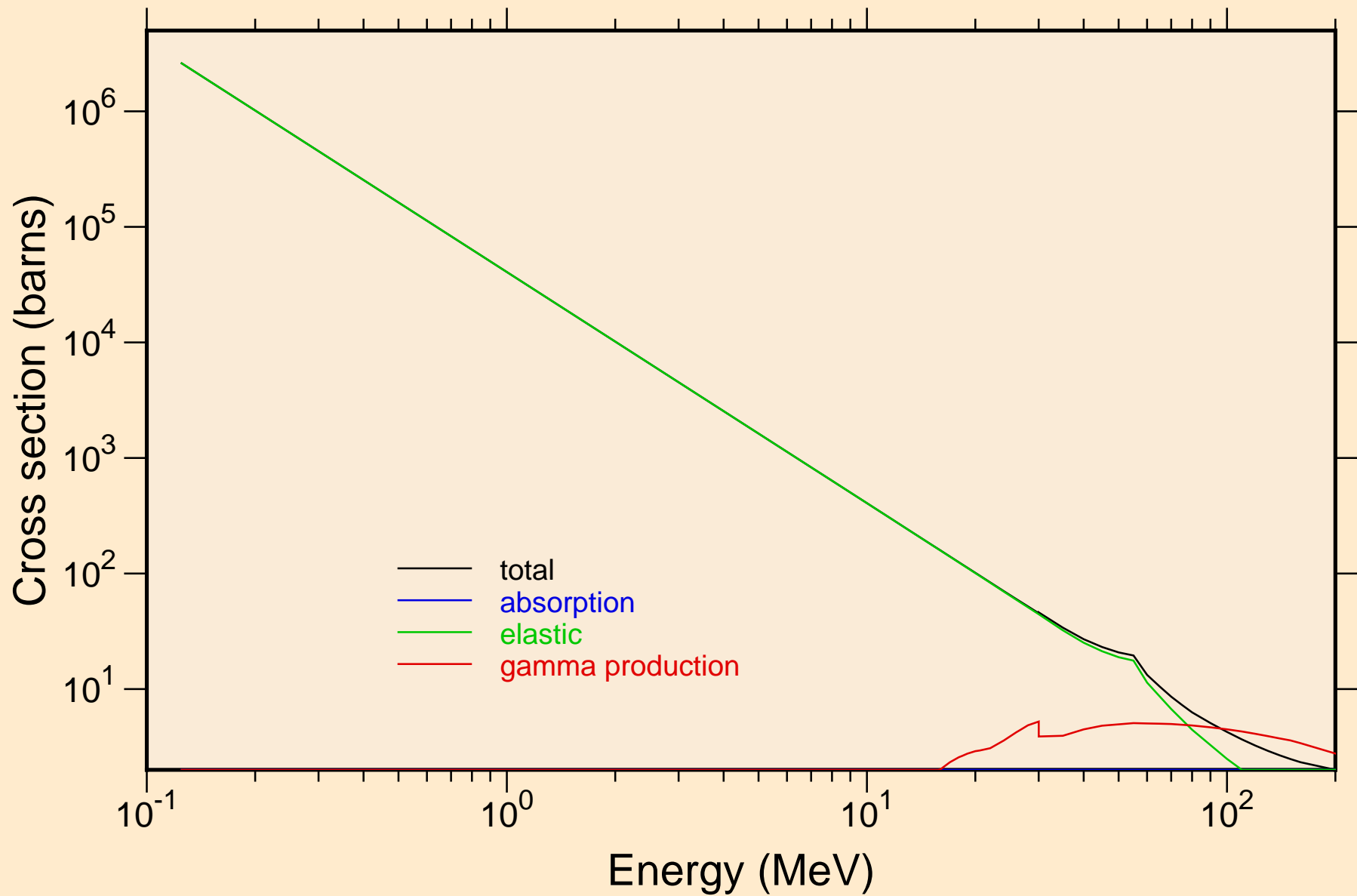


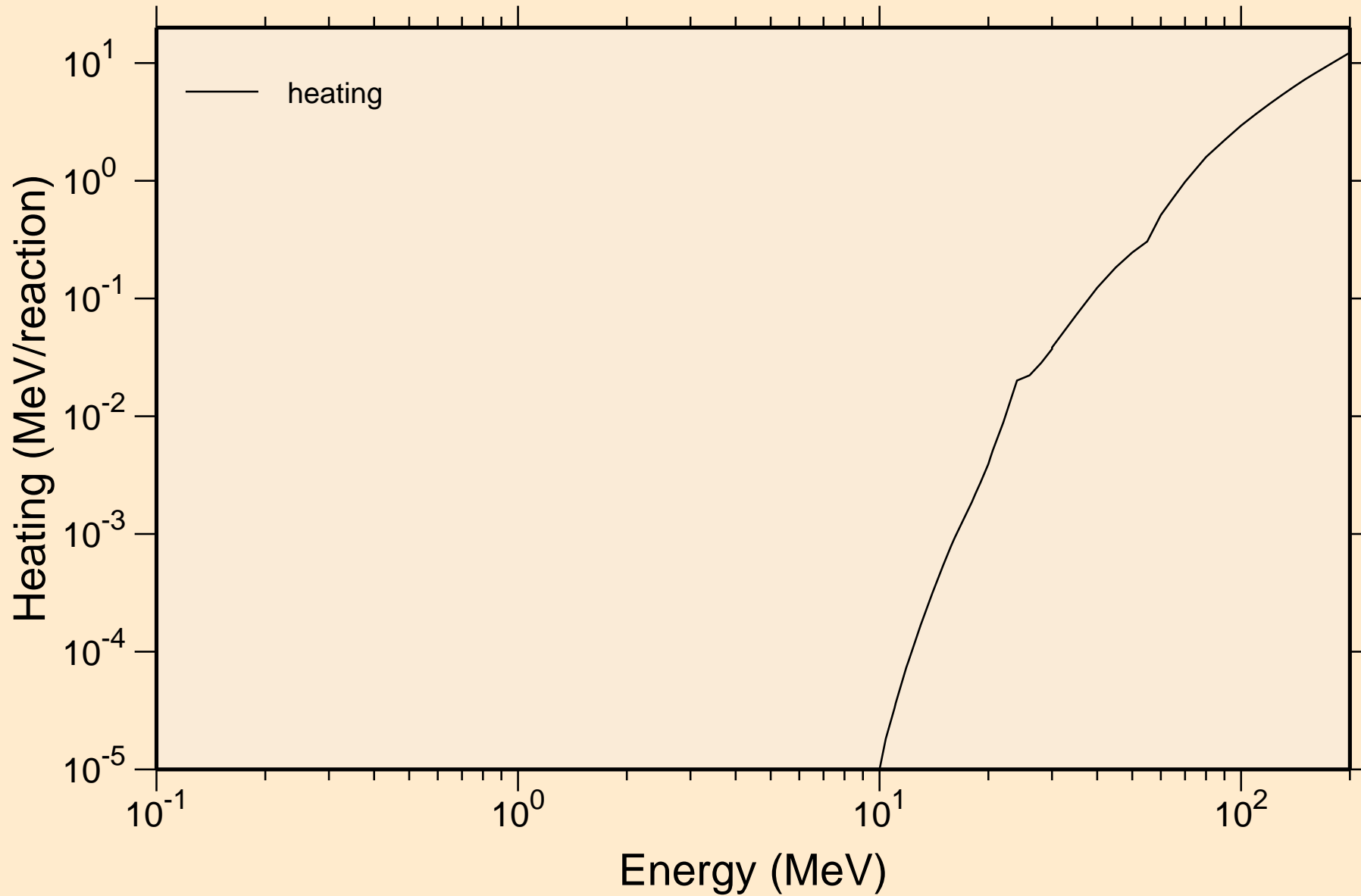
# TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



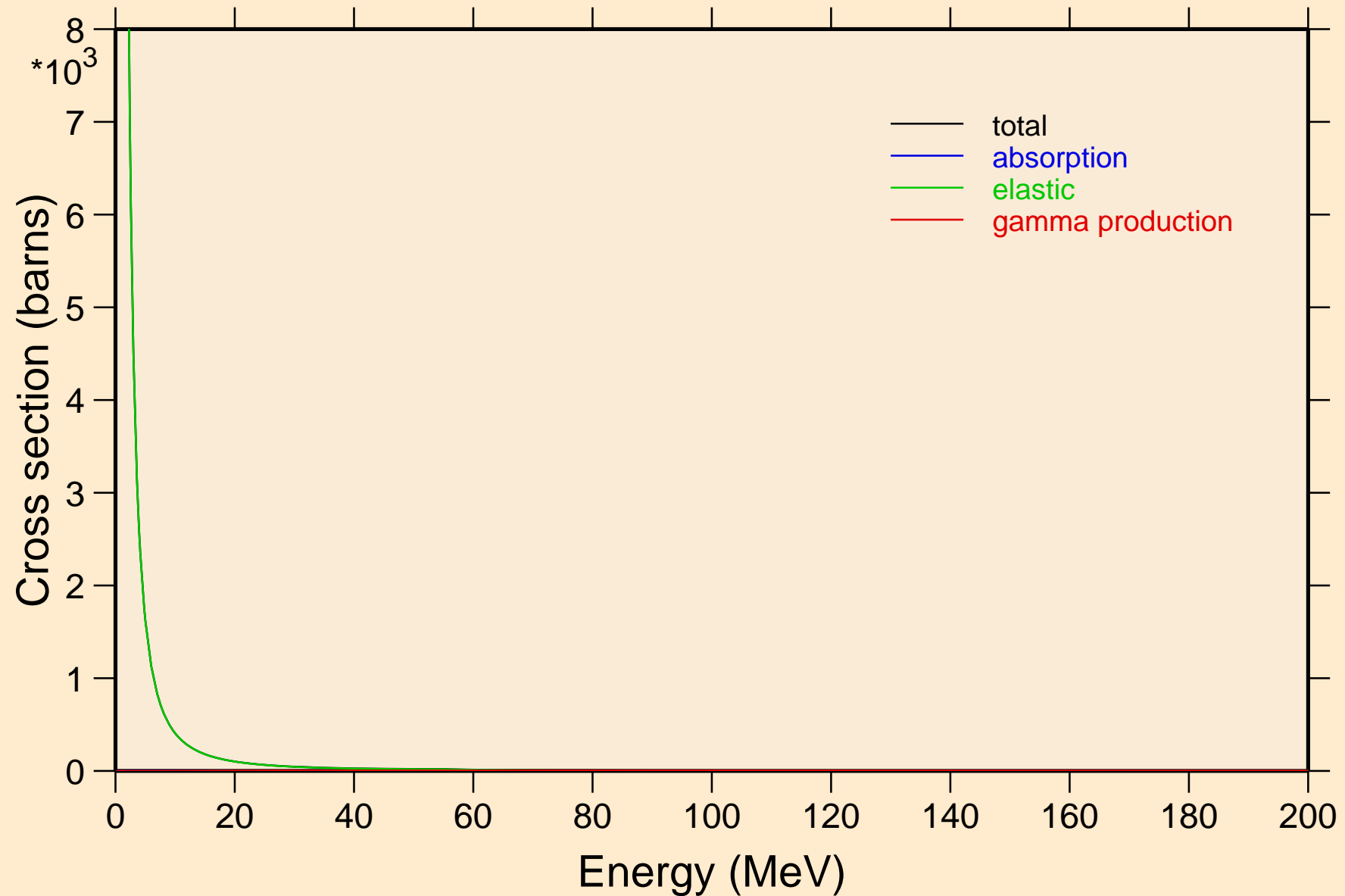
# TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



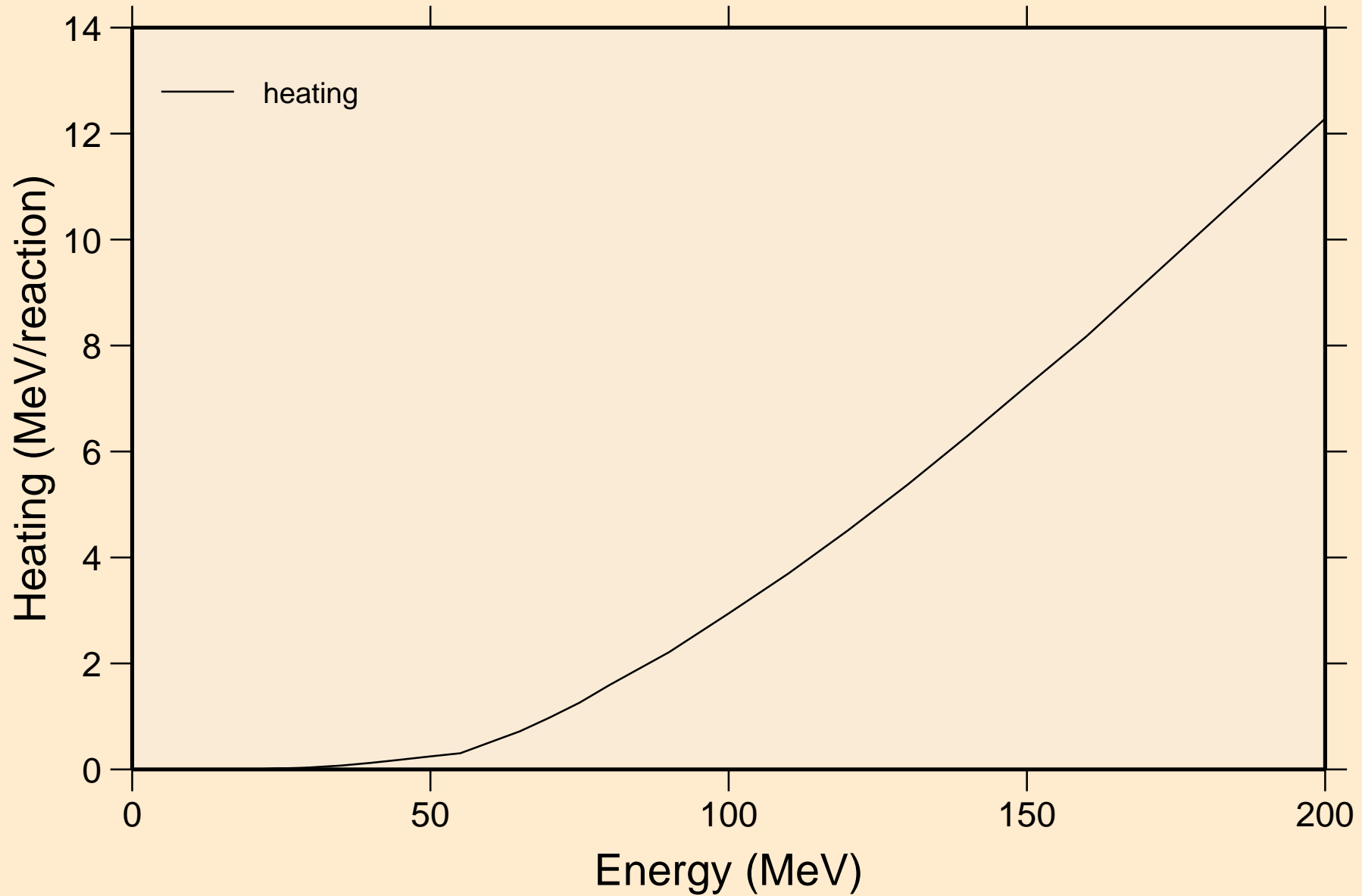
# TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

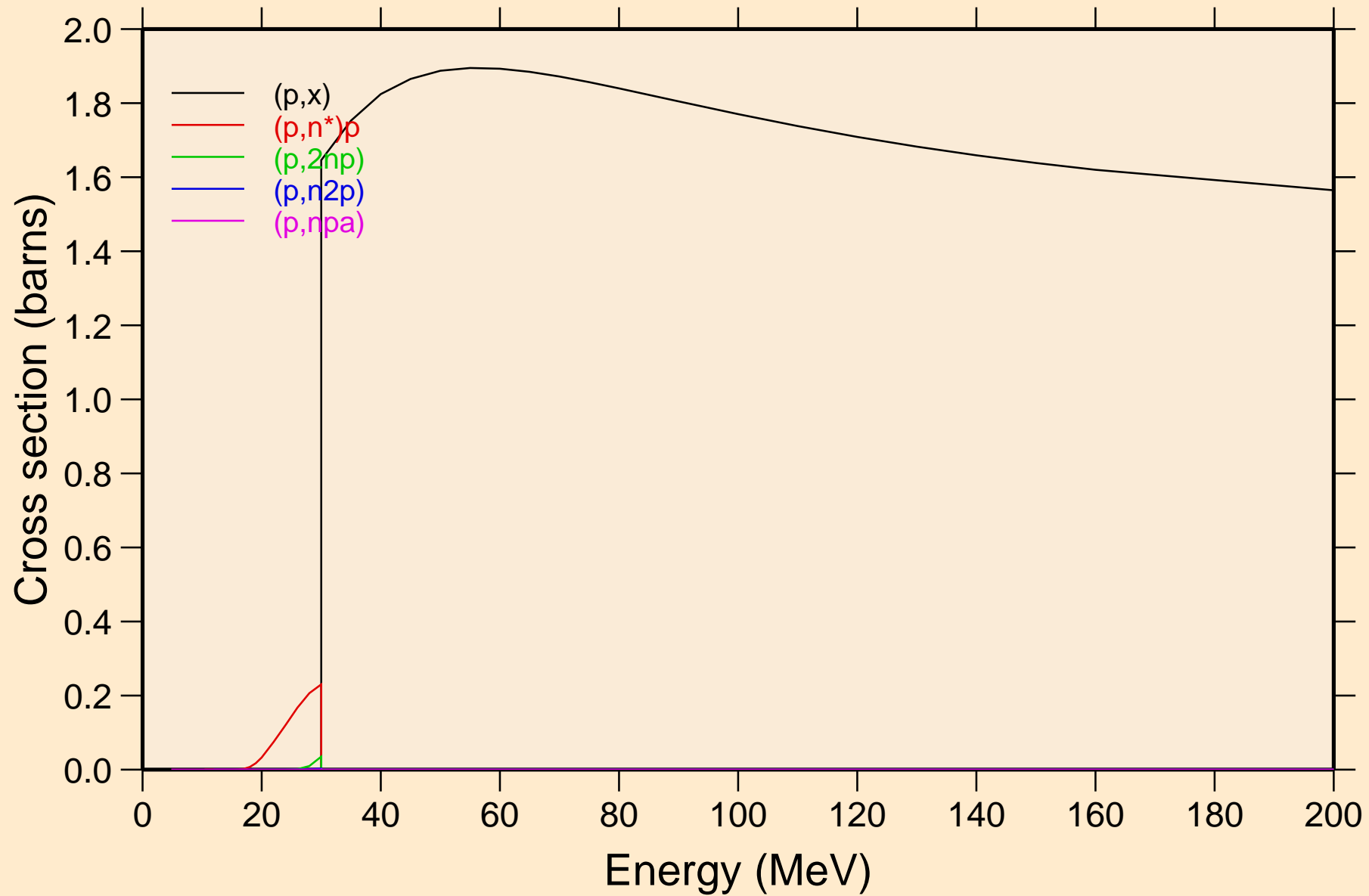


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K

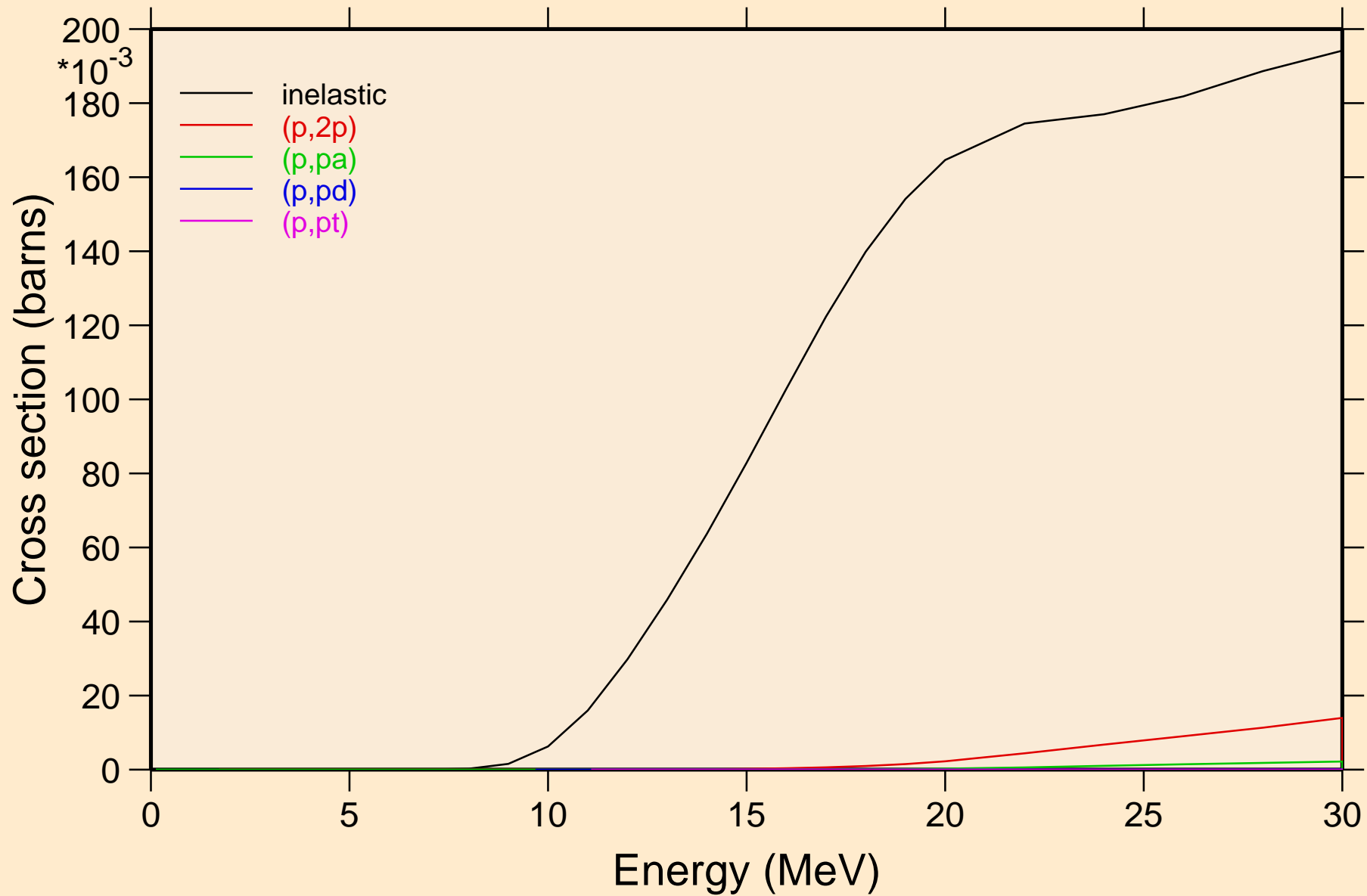
Heating



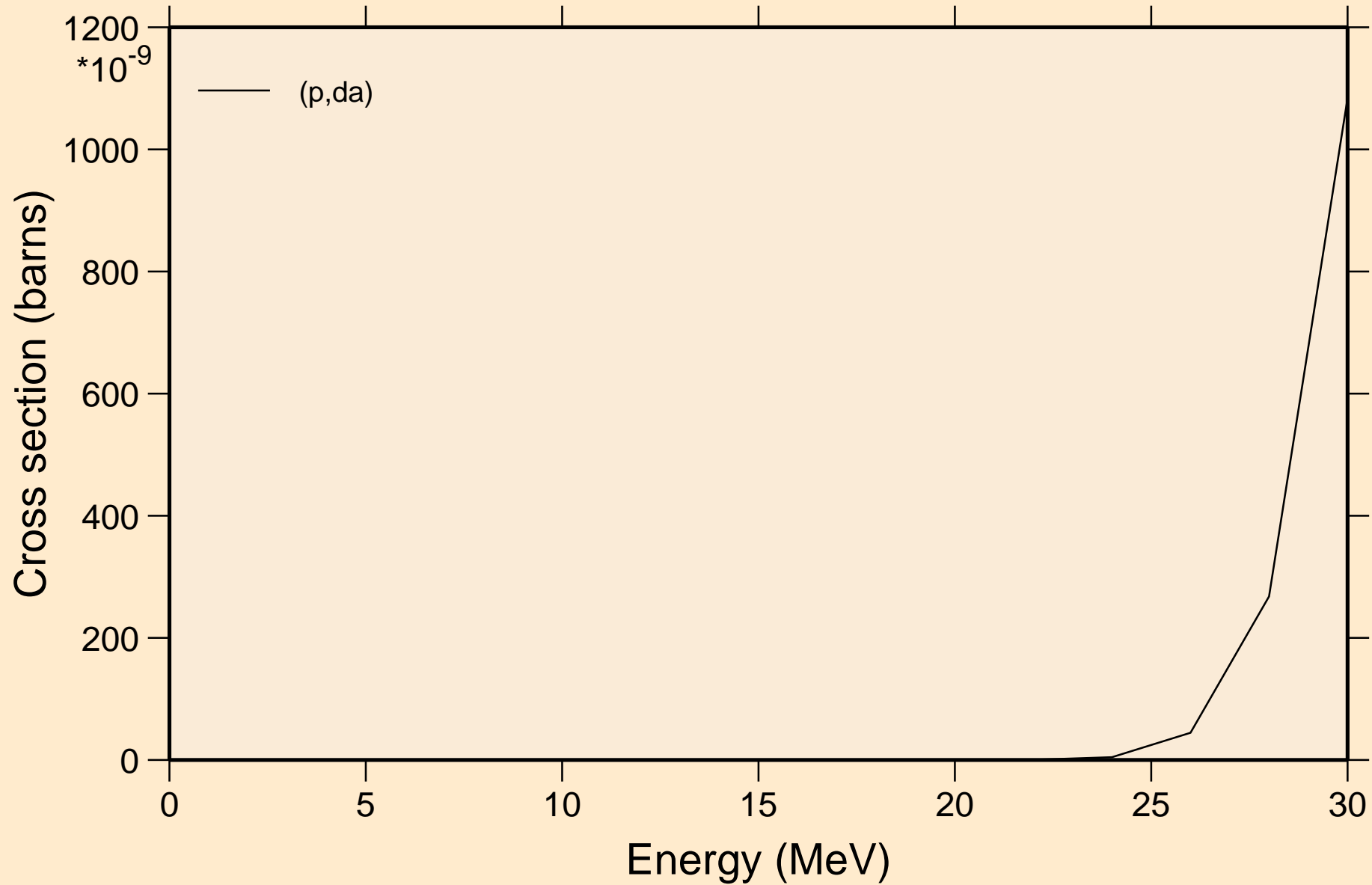
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



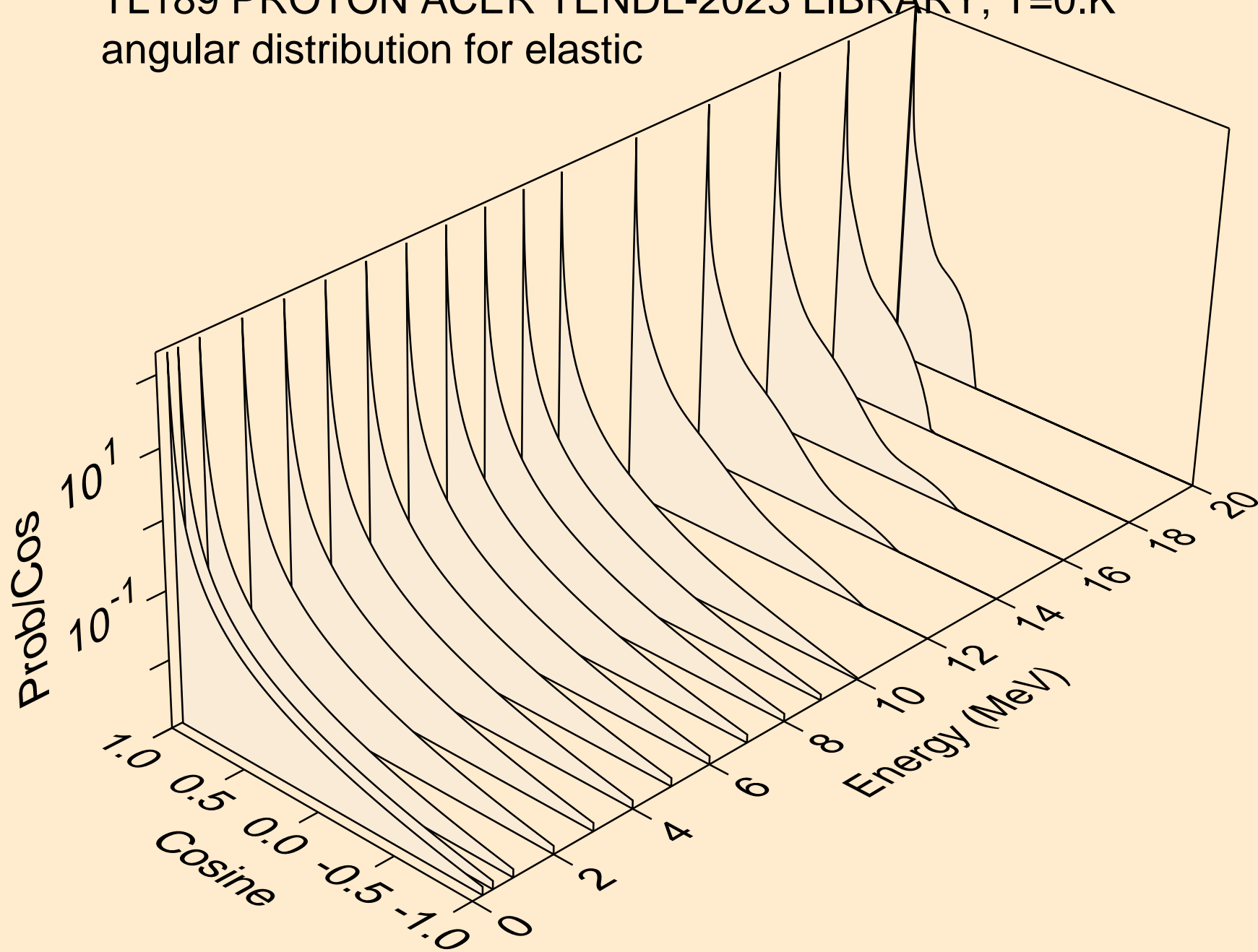
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

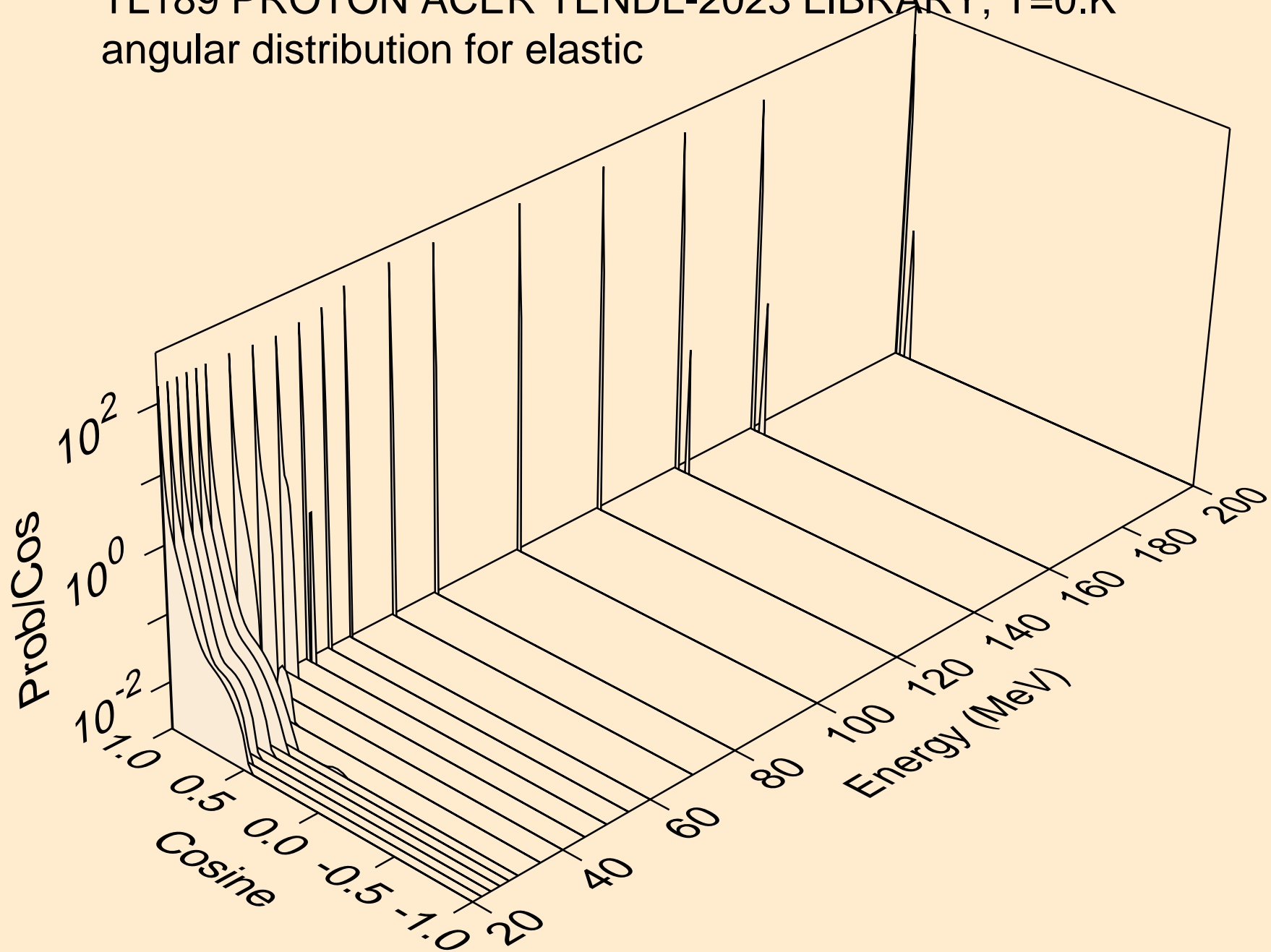


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

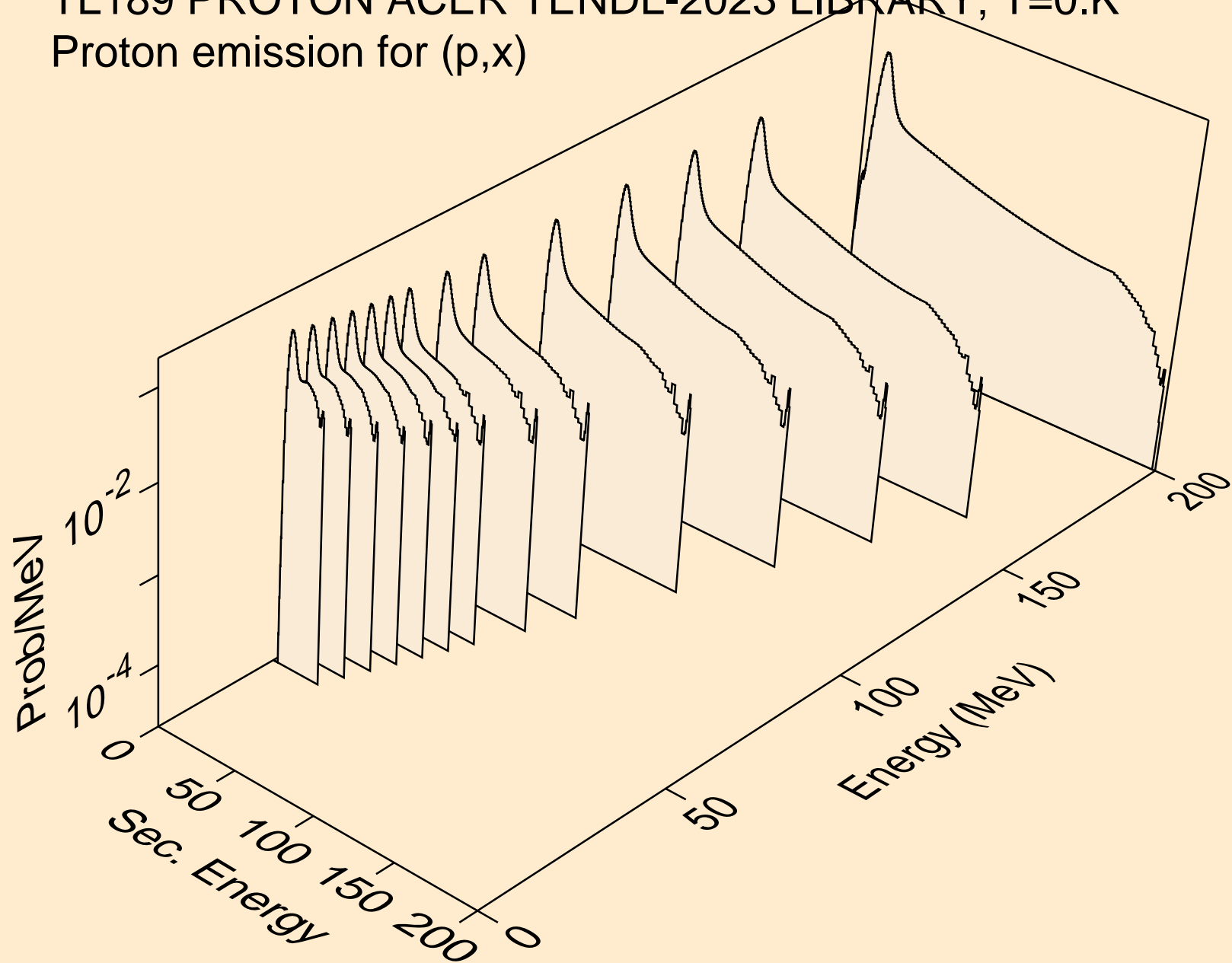




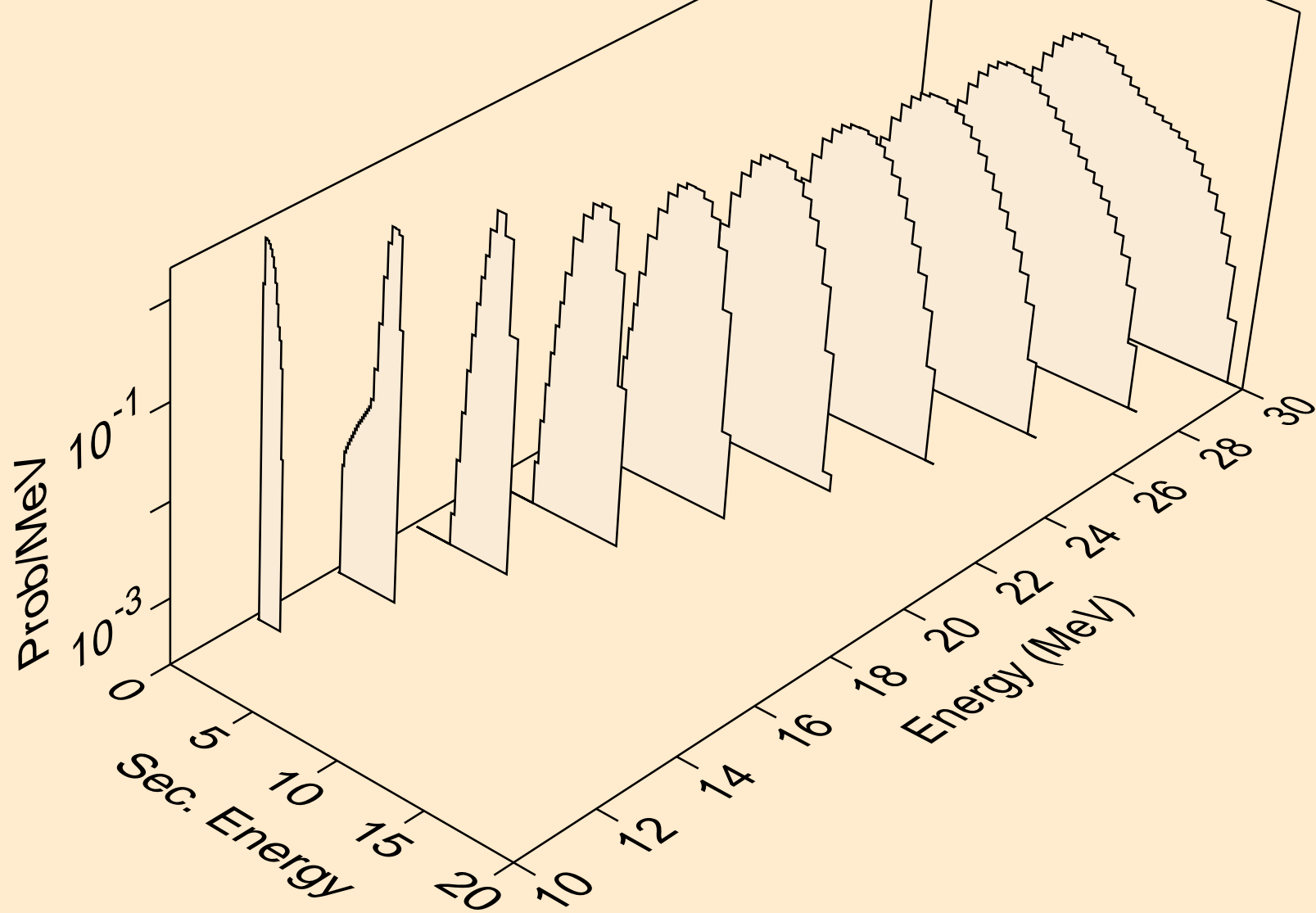
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



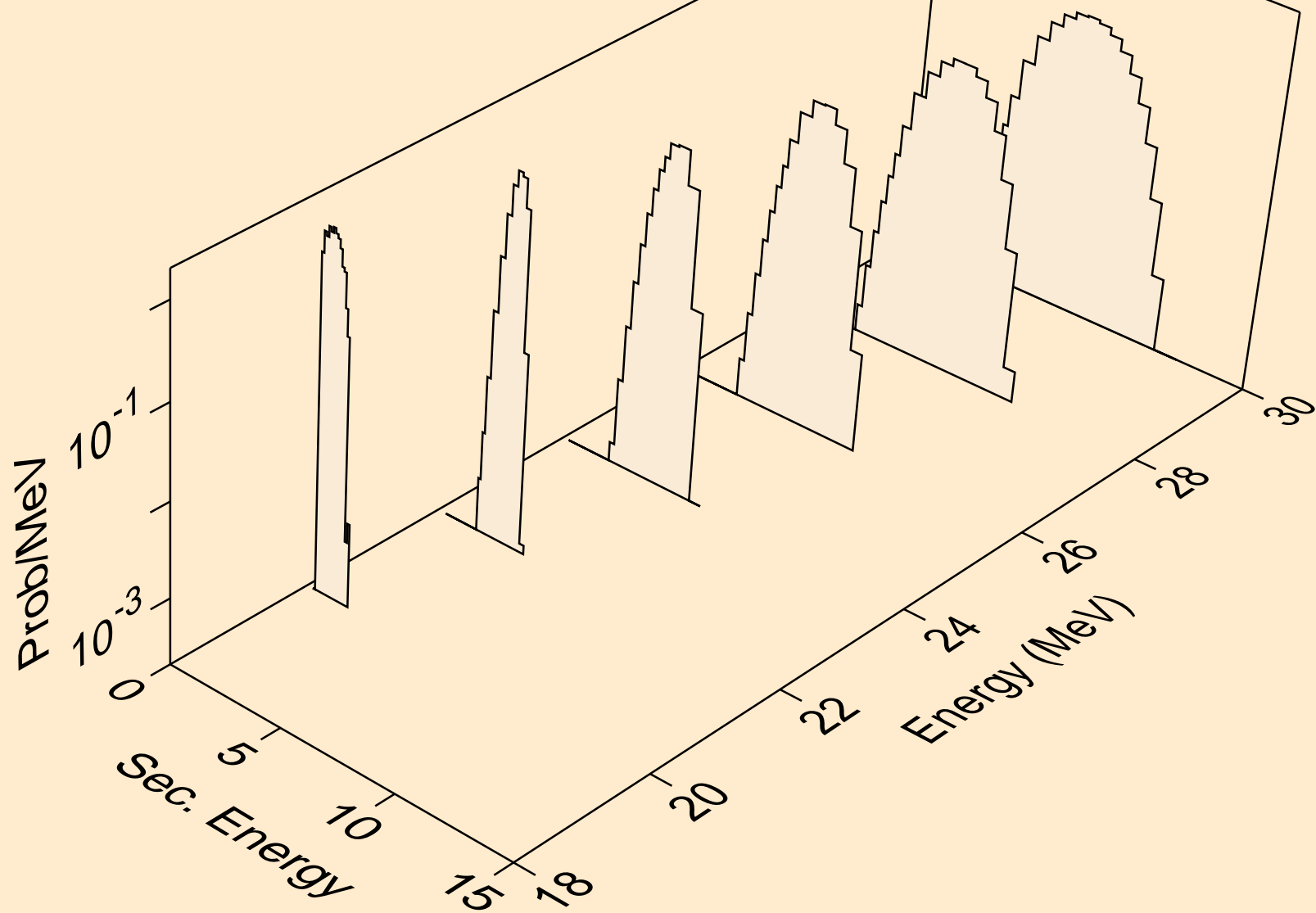
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,x)



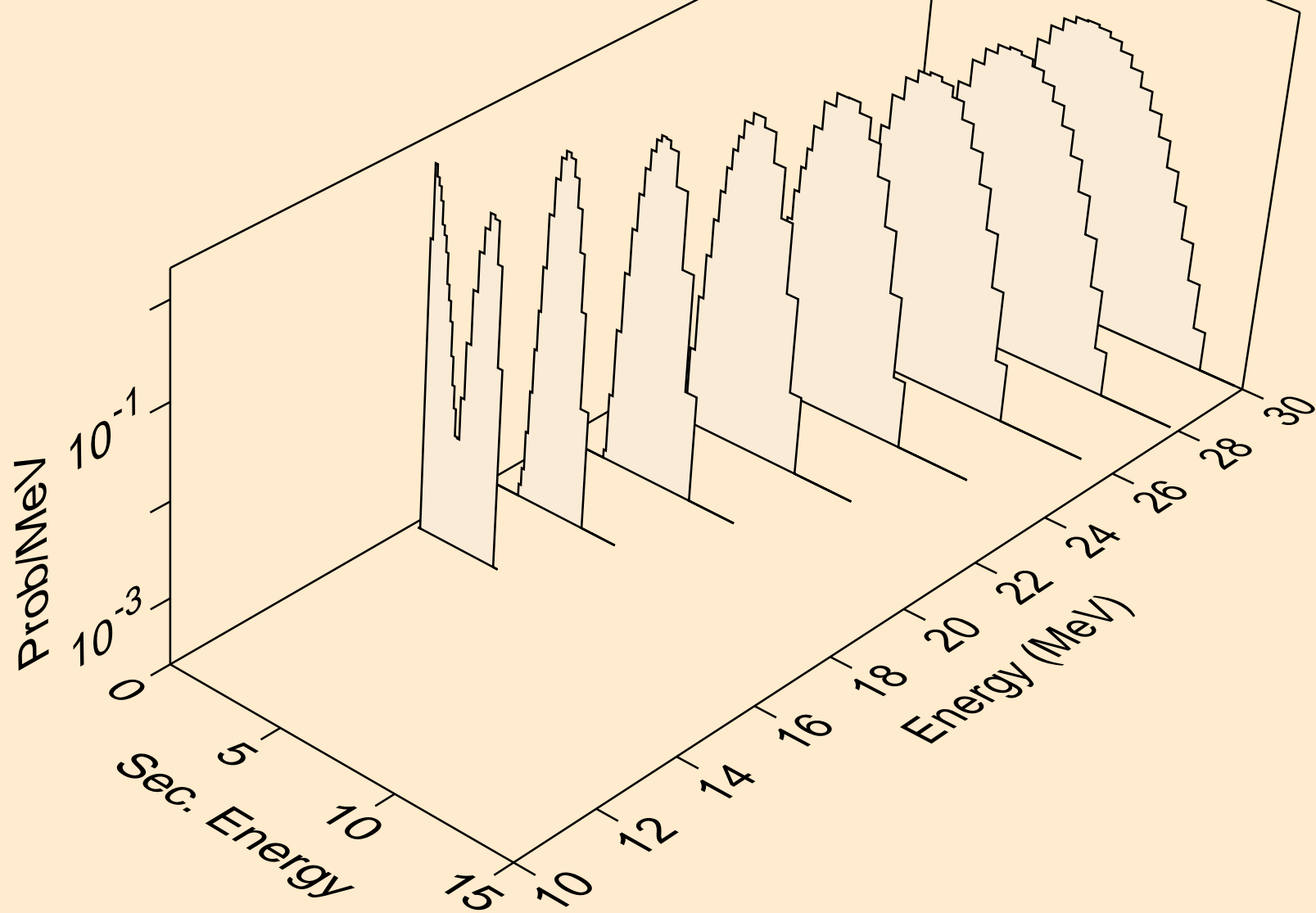
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



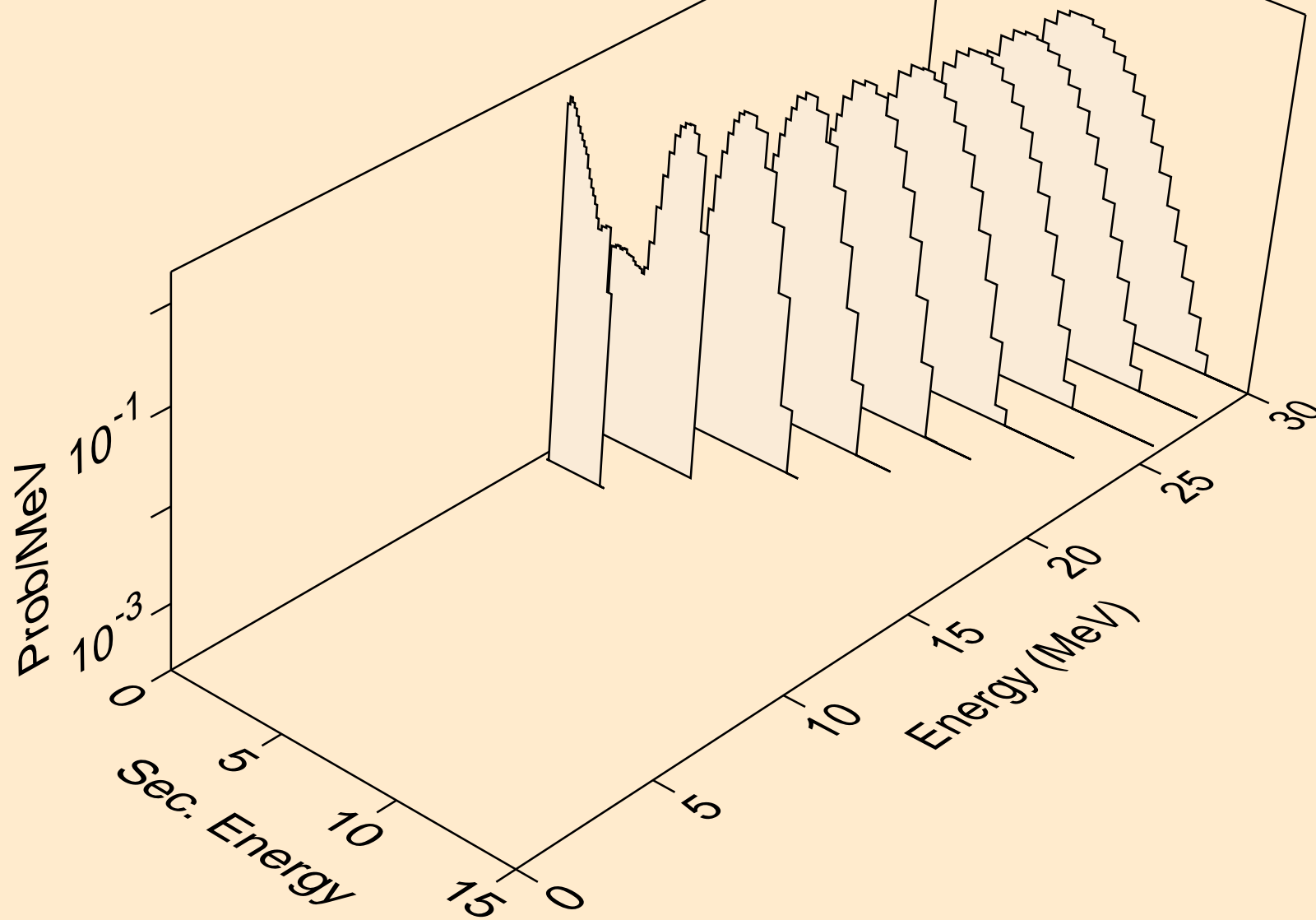
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2np)



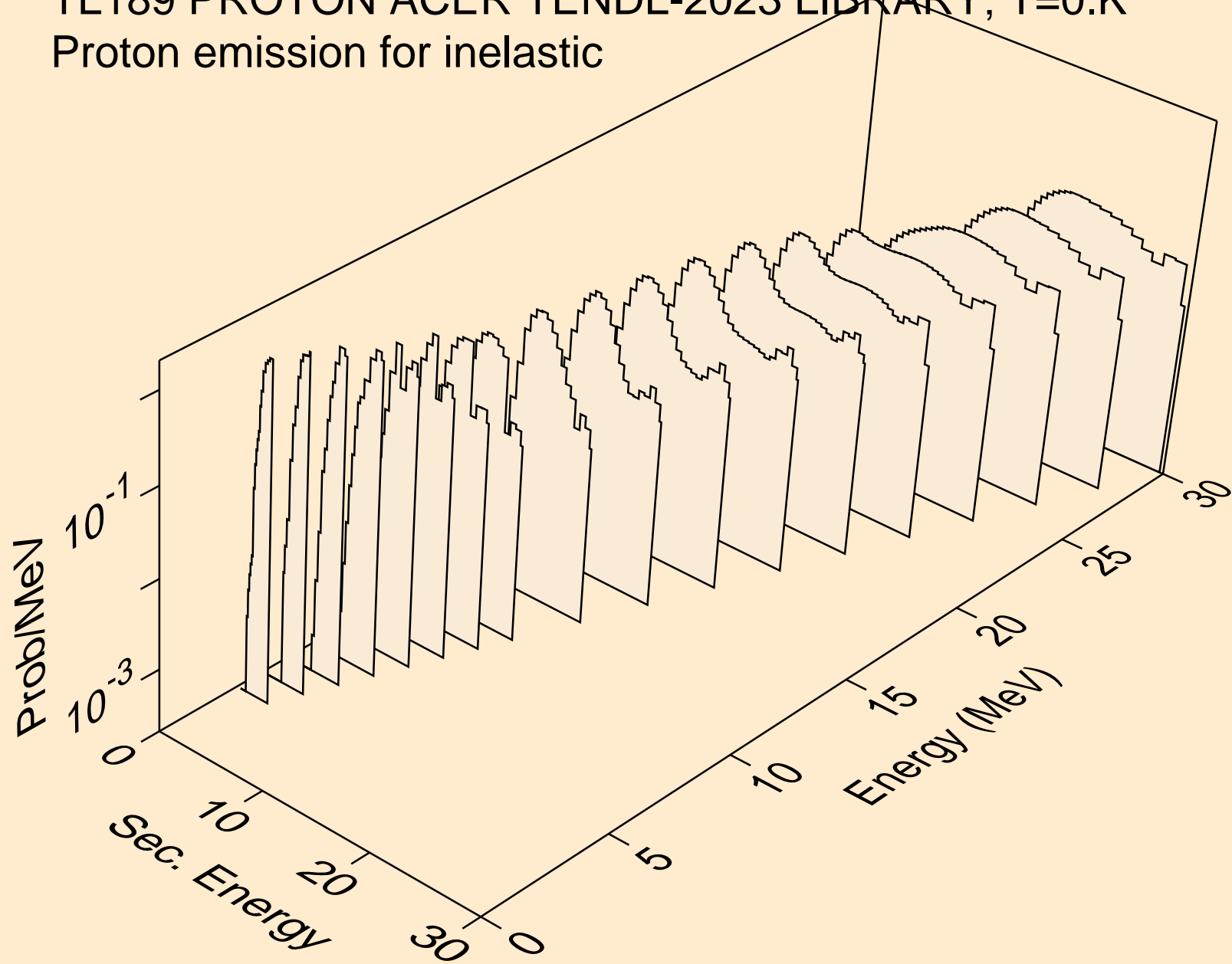
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,n2p)



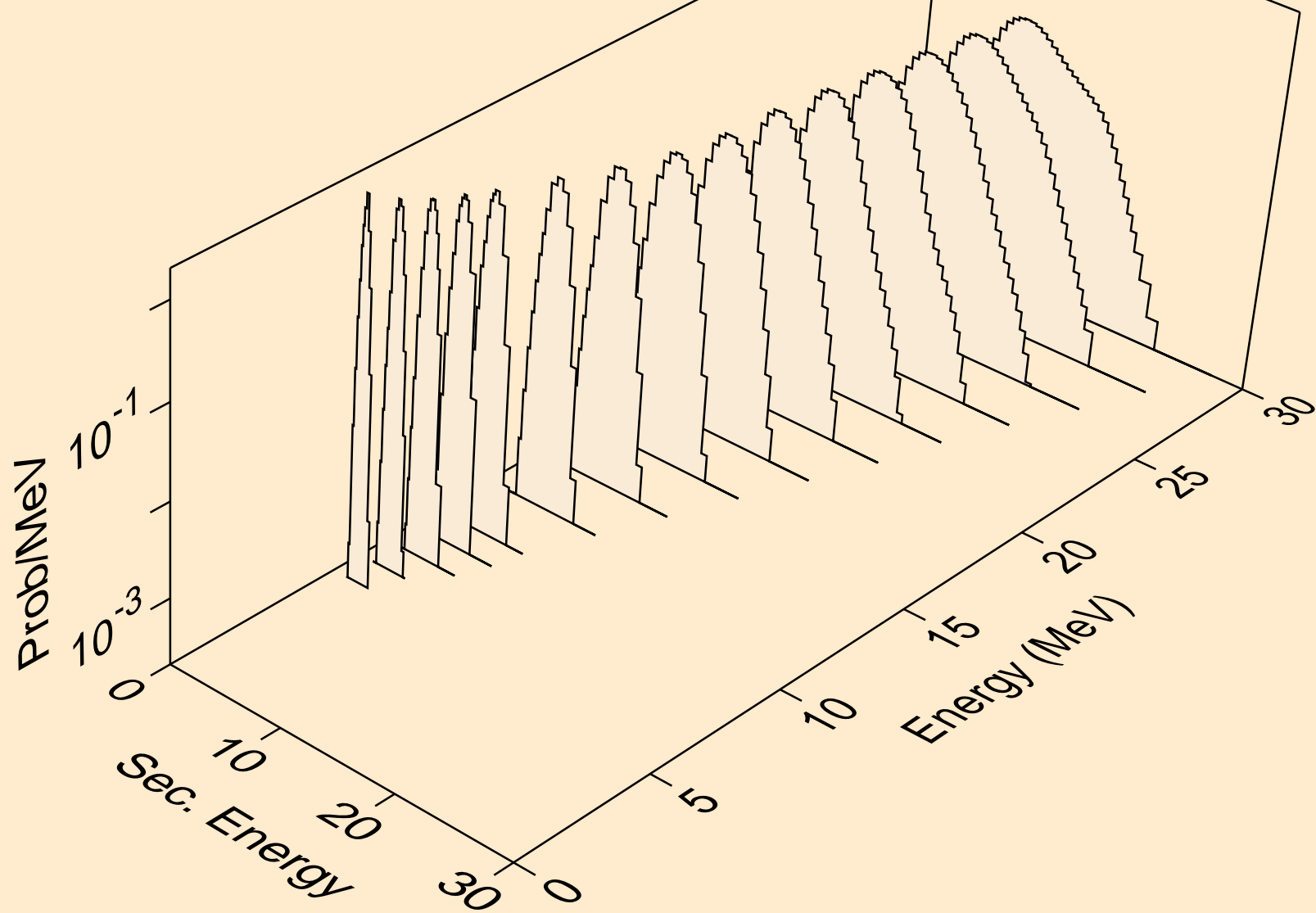
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,npa)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for inelastic

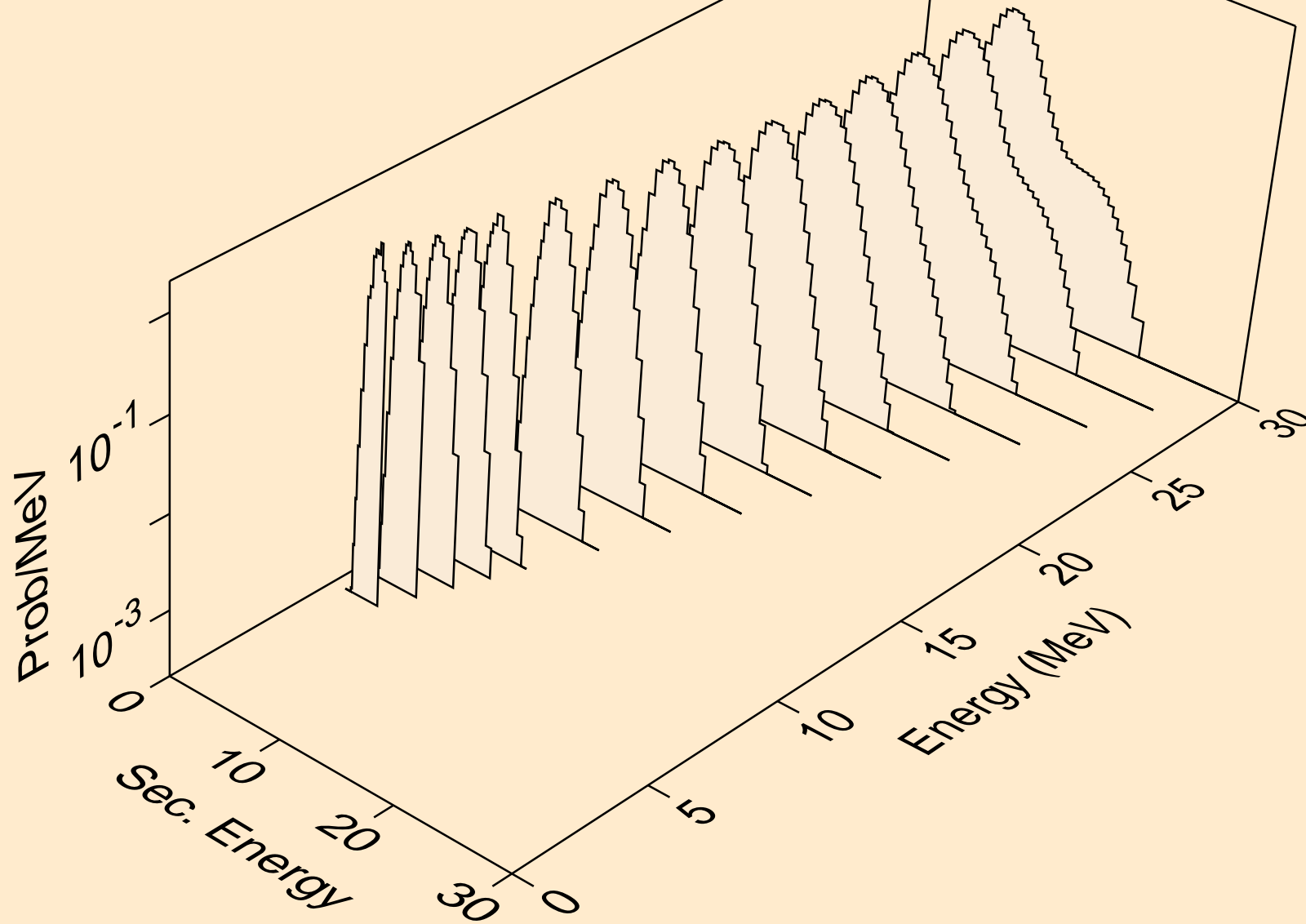


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,2p)

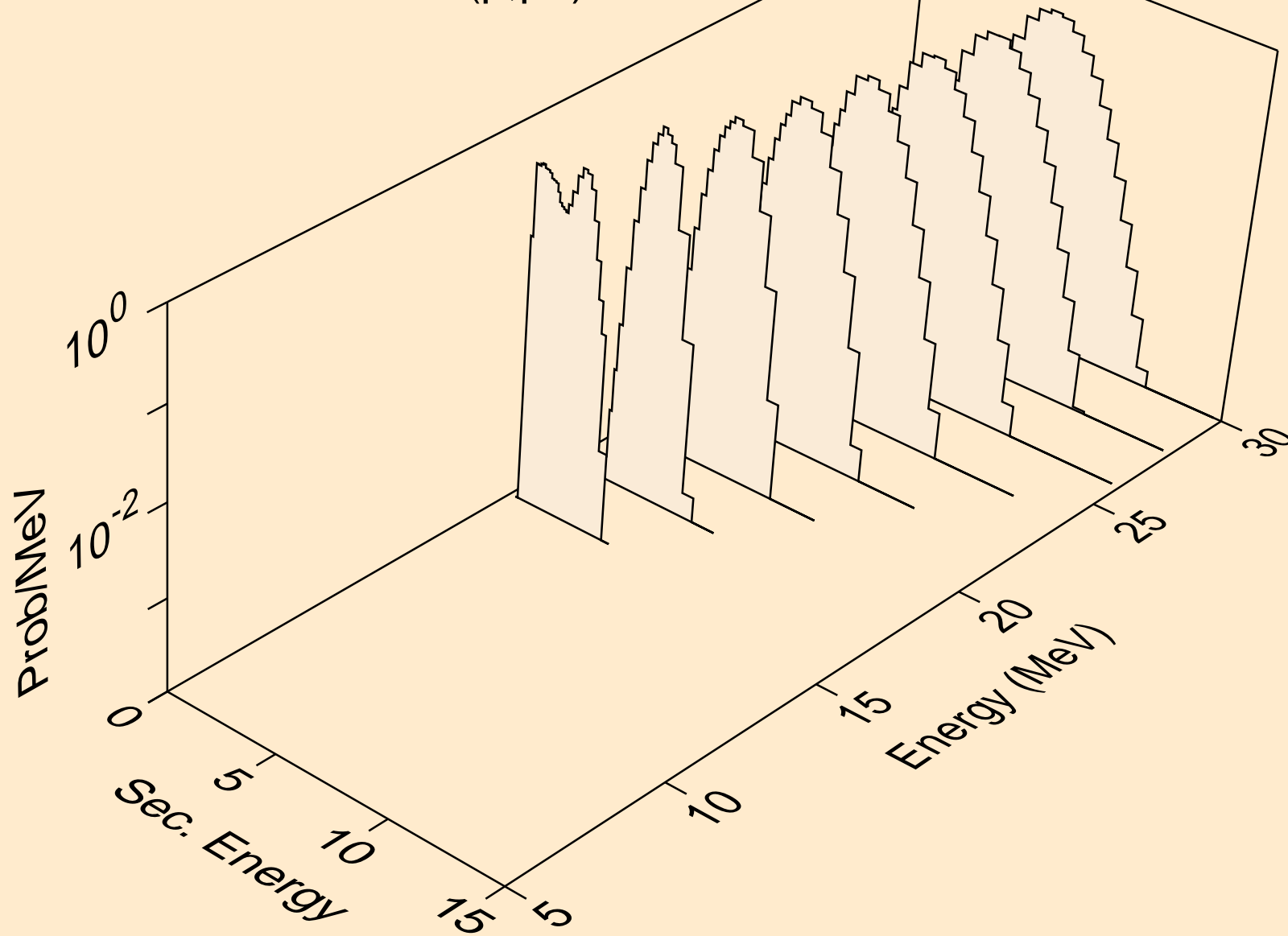




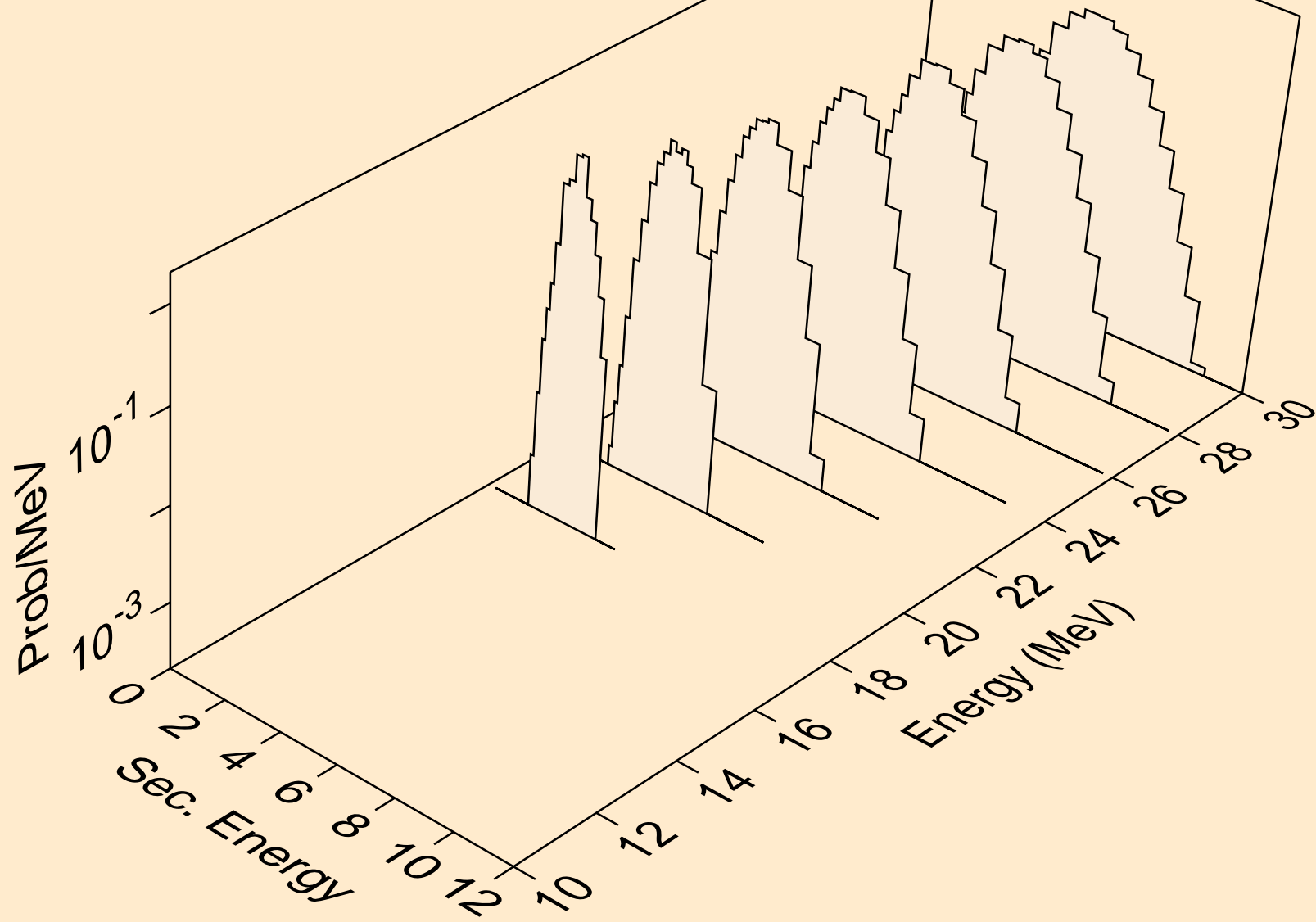
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pa)



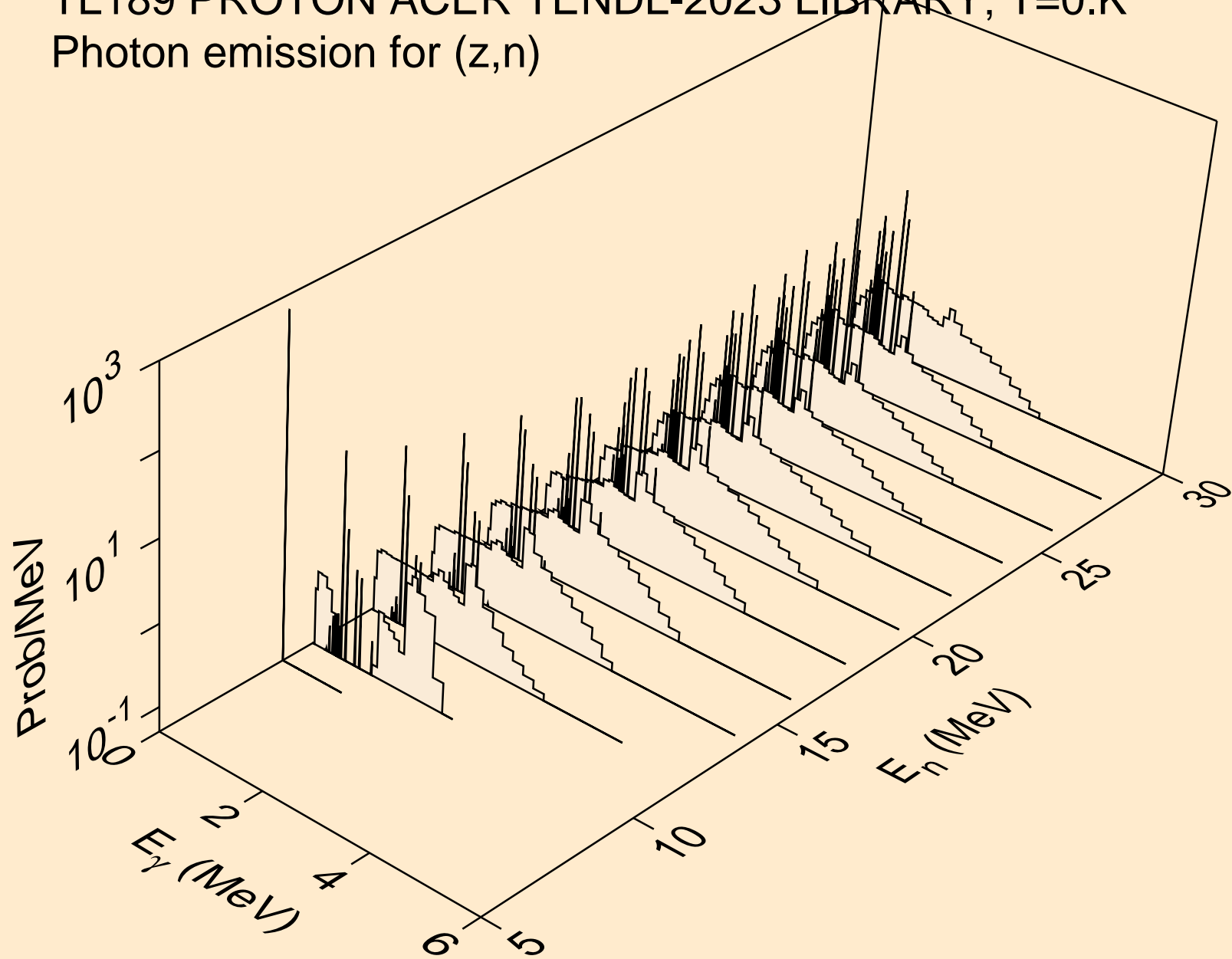
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pd)



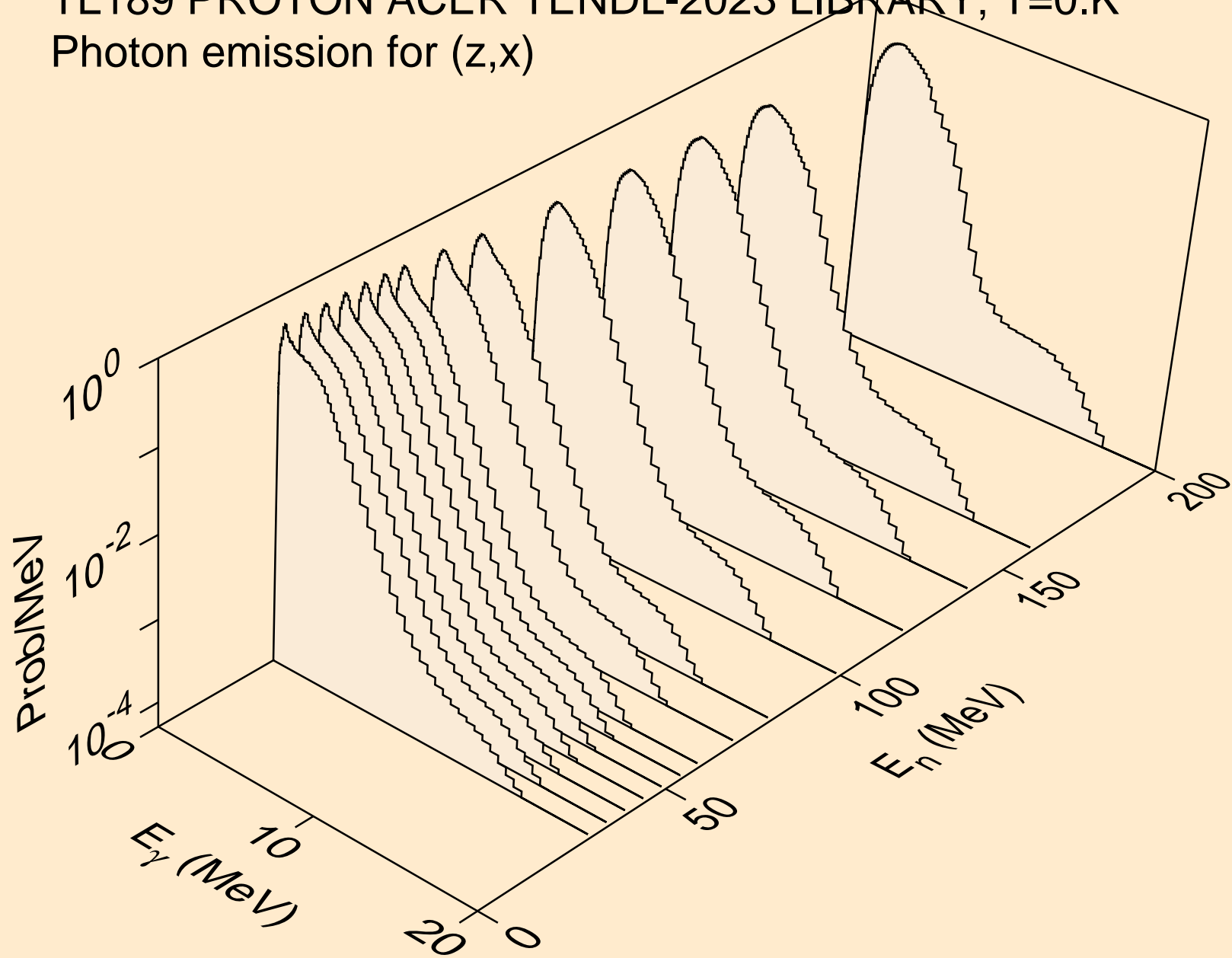
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Proton emission for (p,pt)



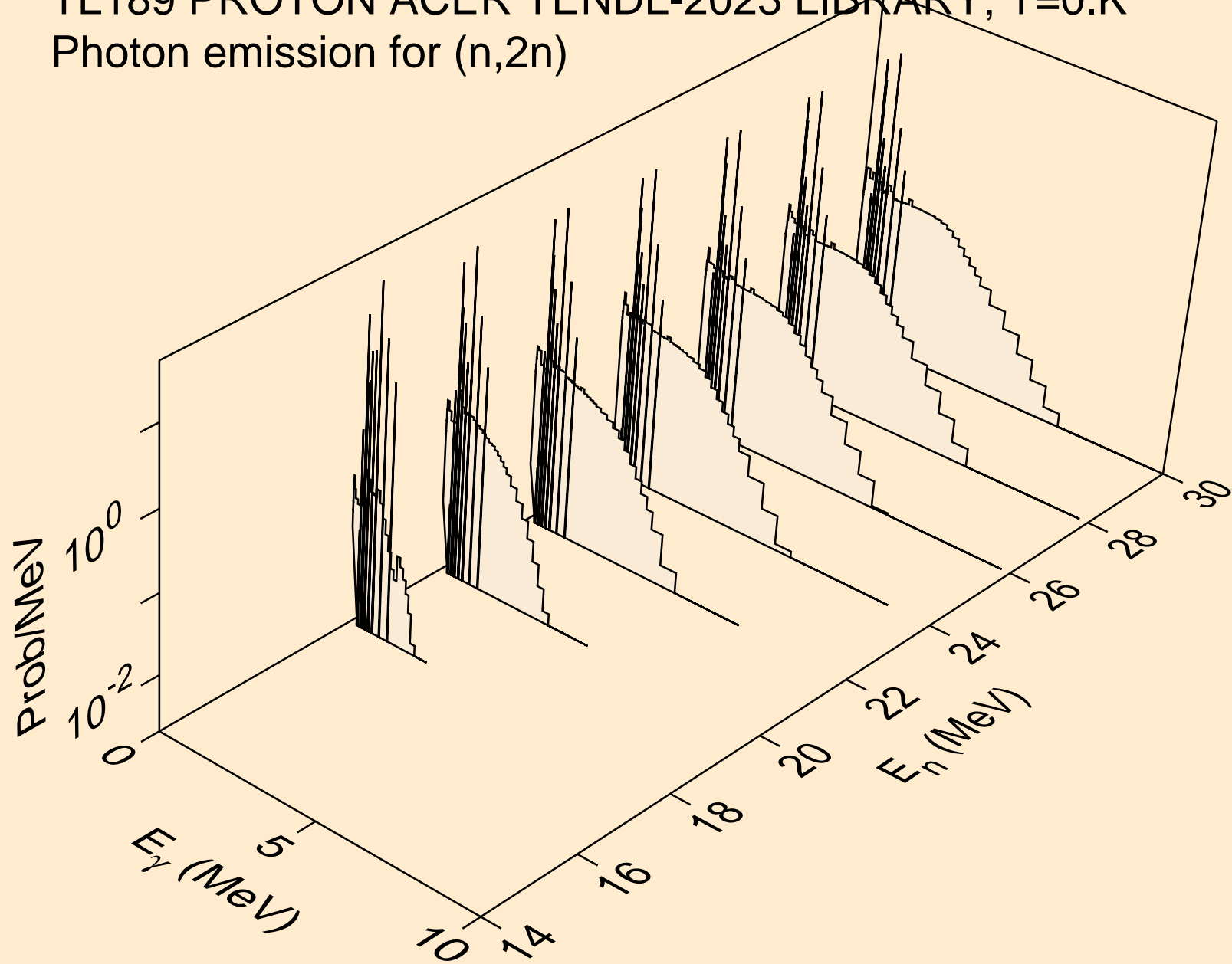
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)



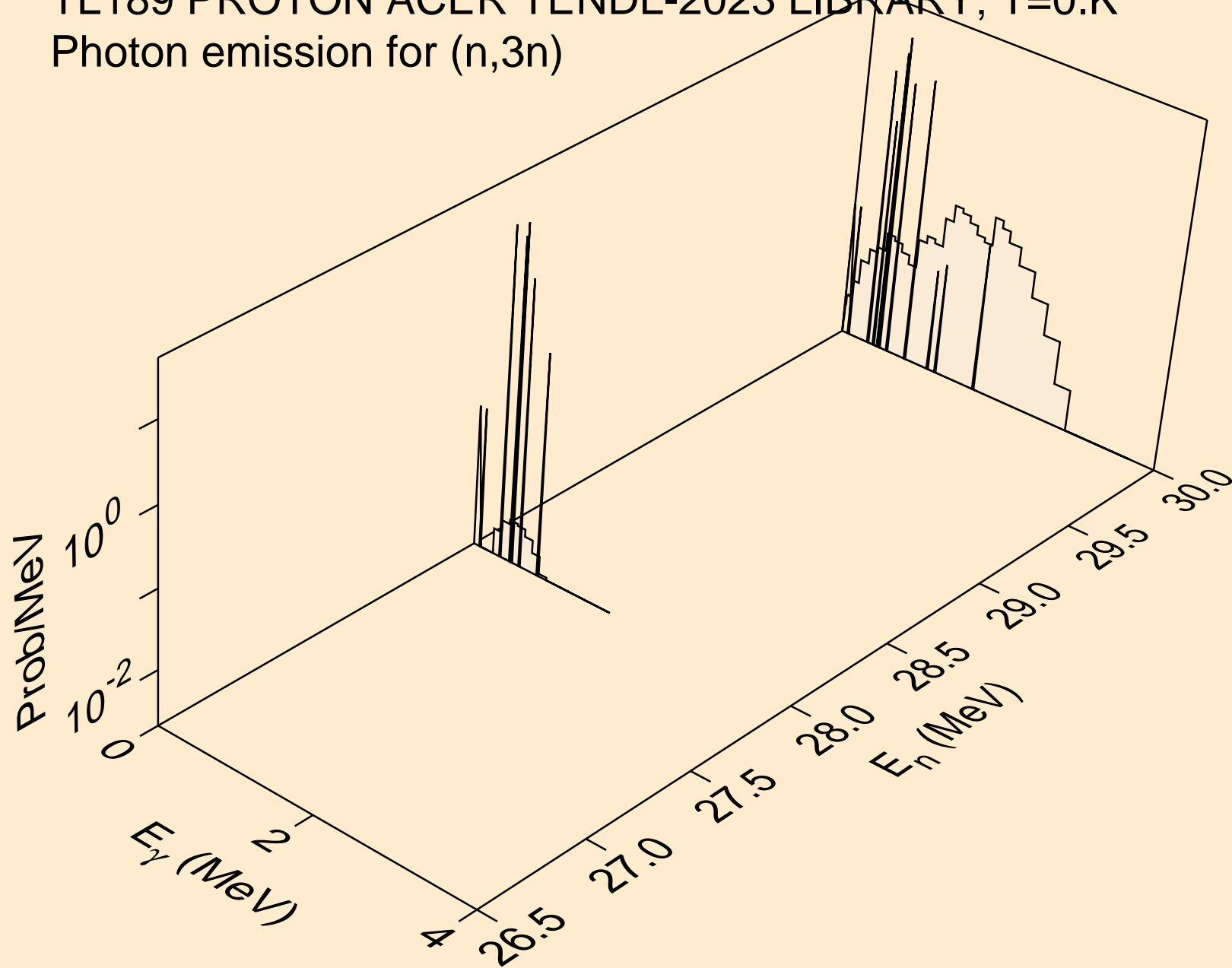
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,x)



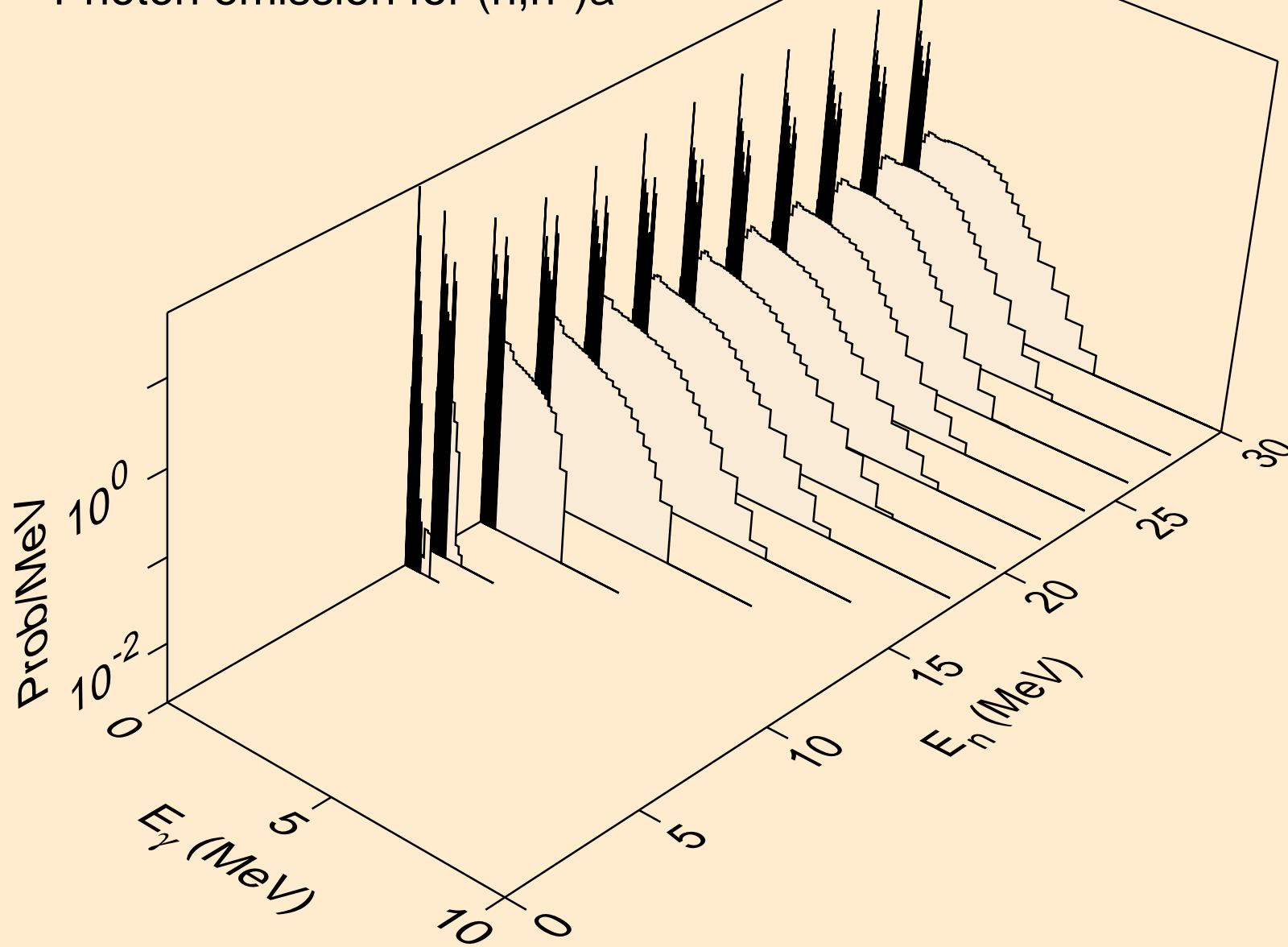
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)

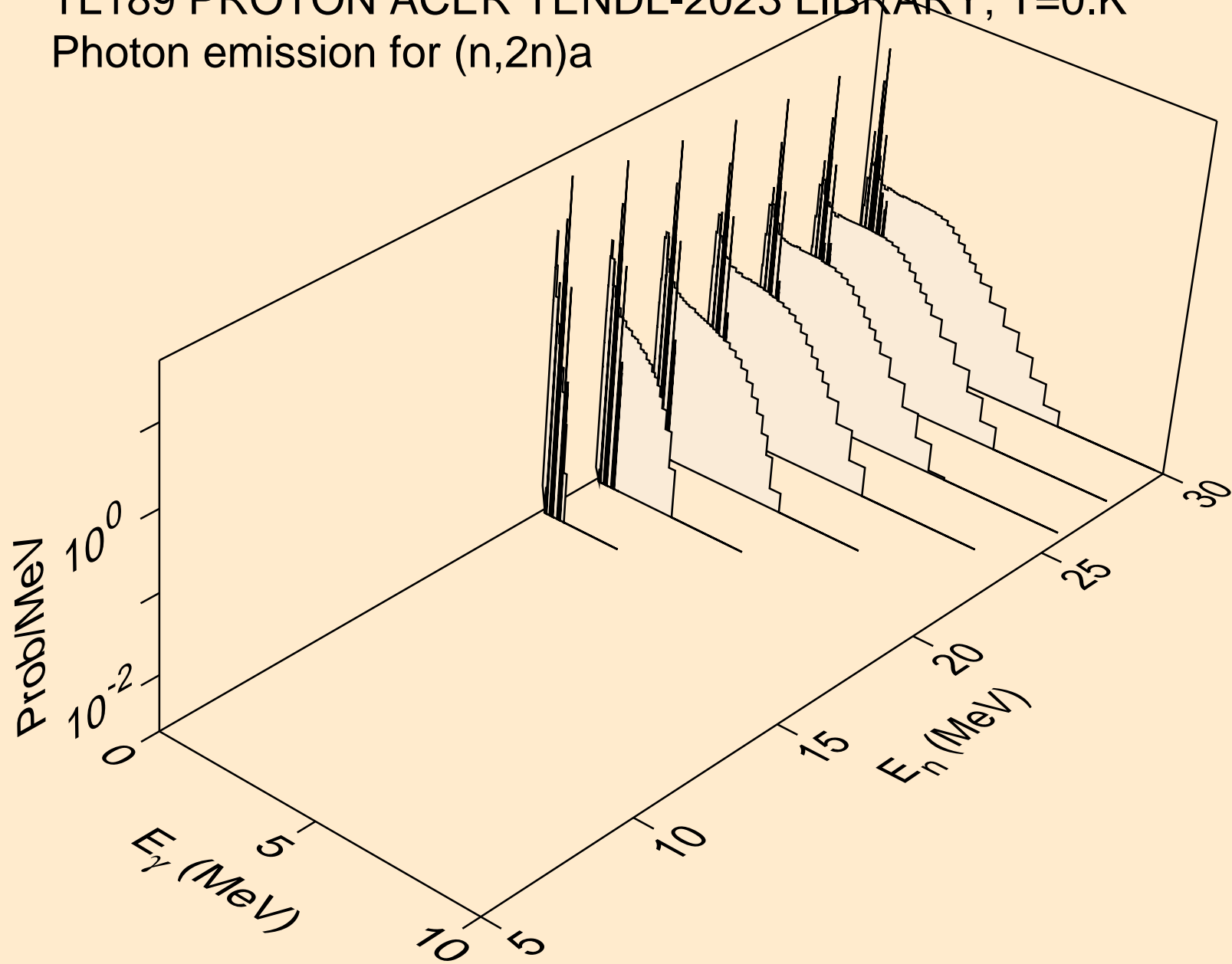


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

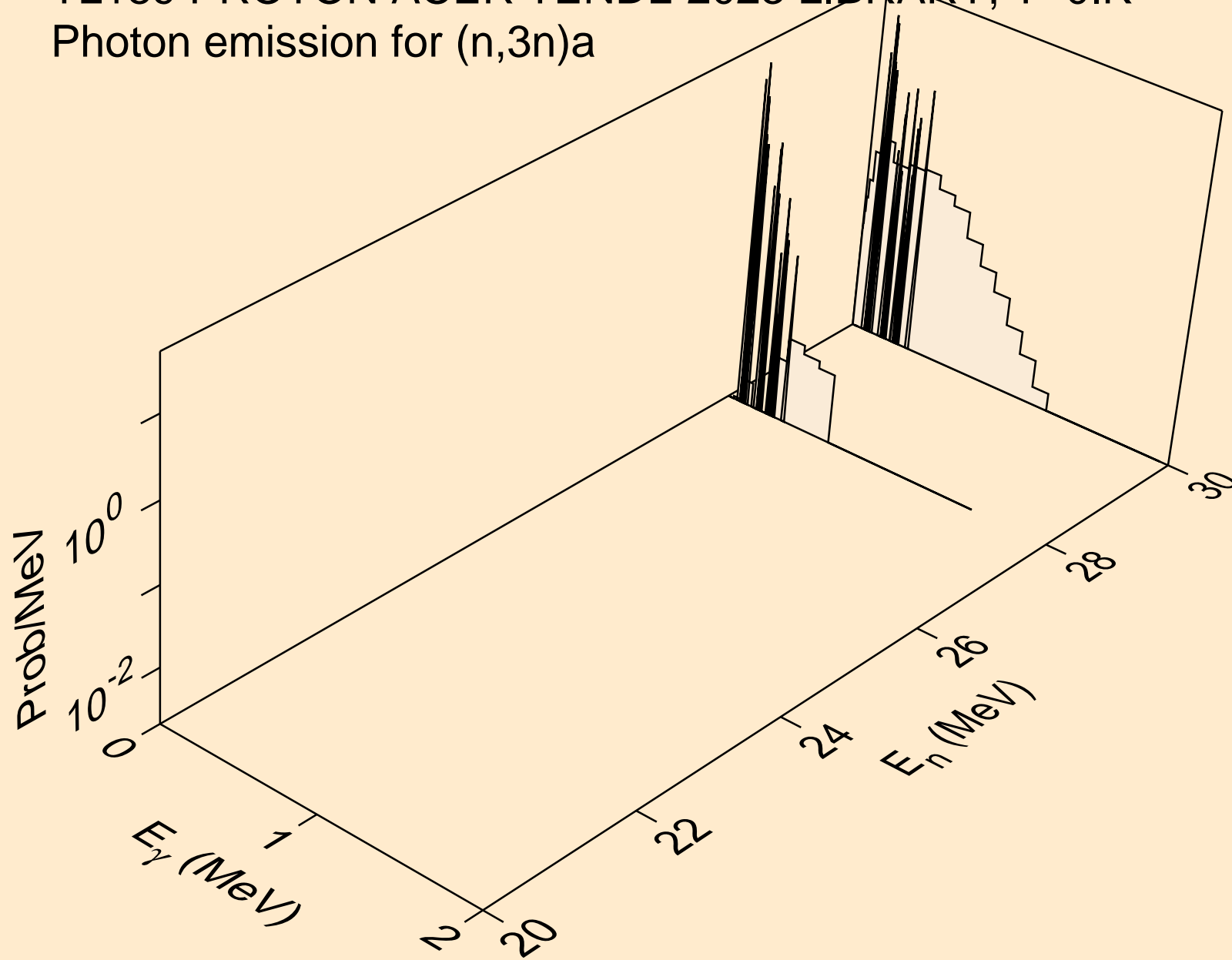




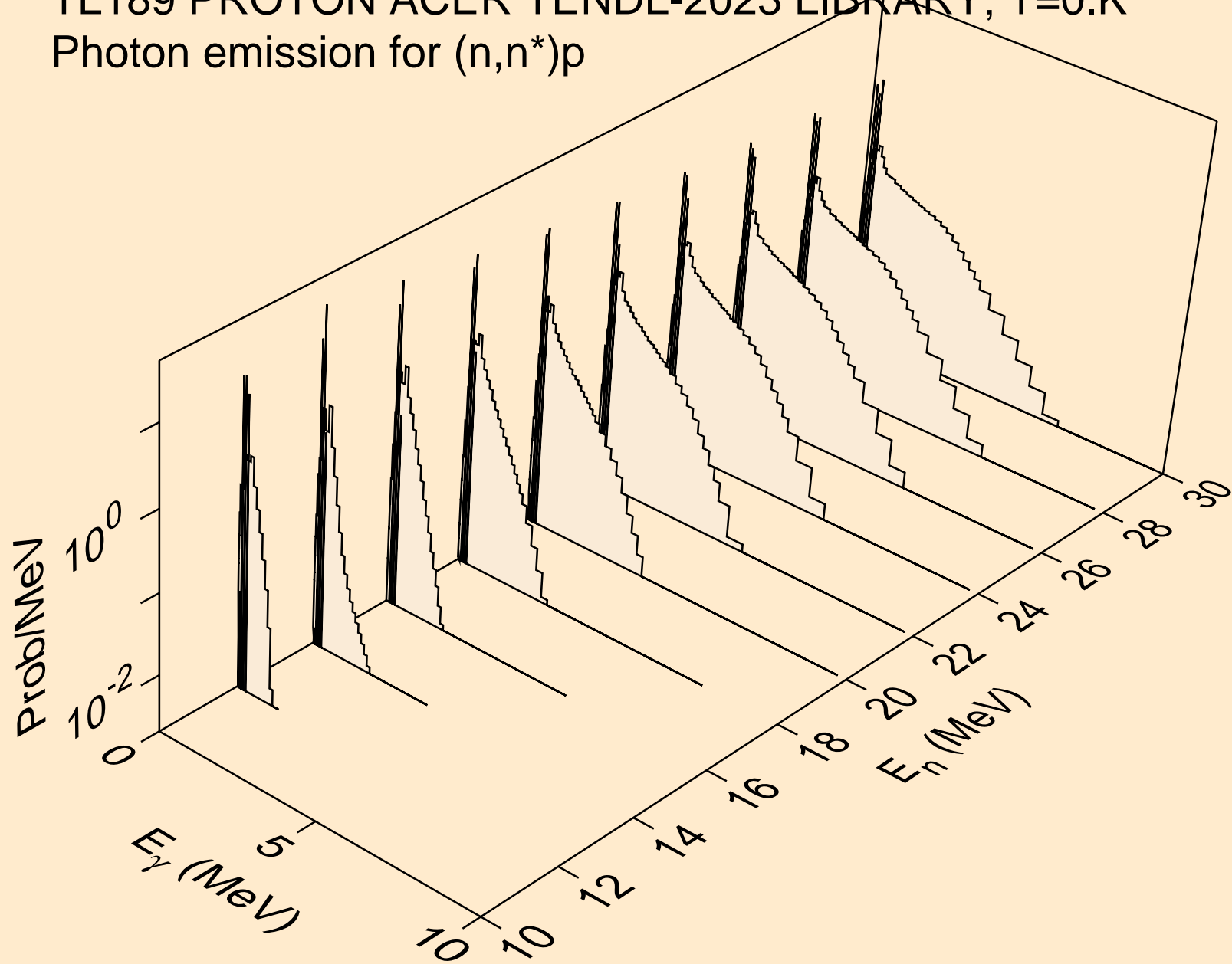
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



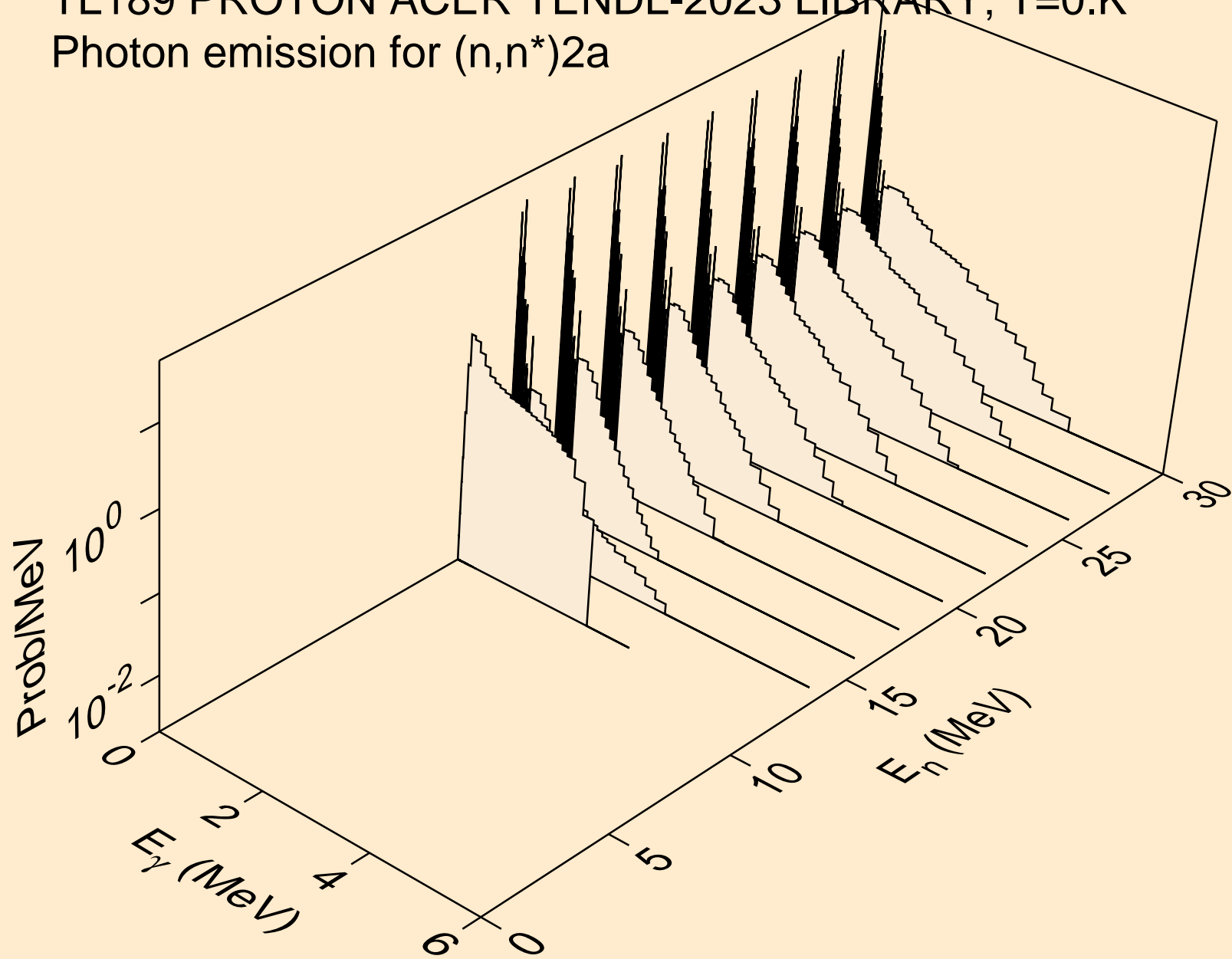
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



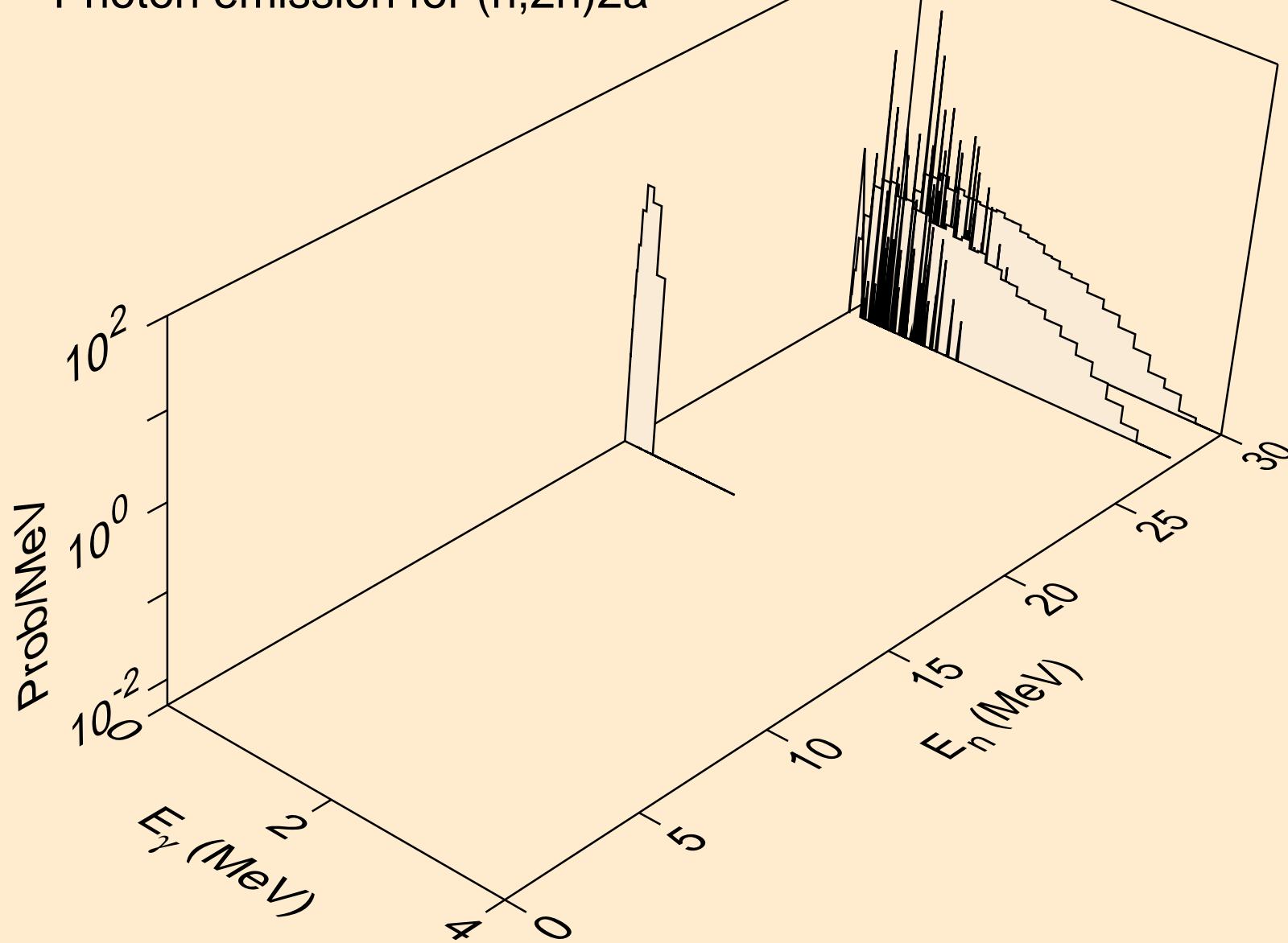
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



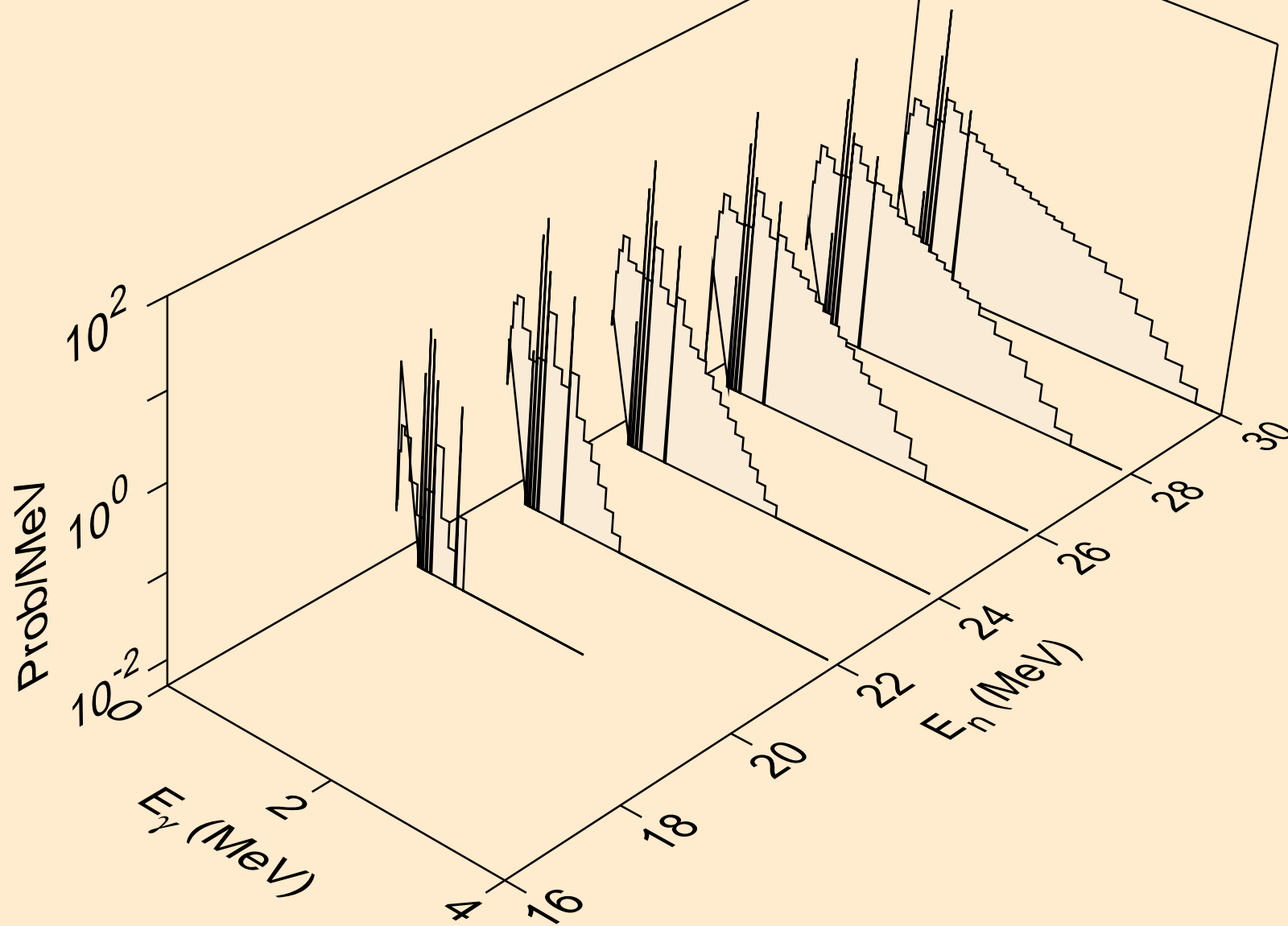
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



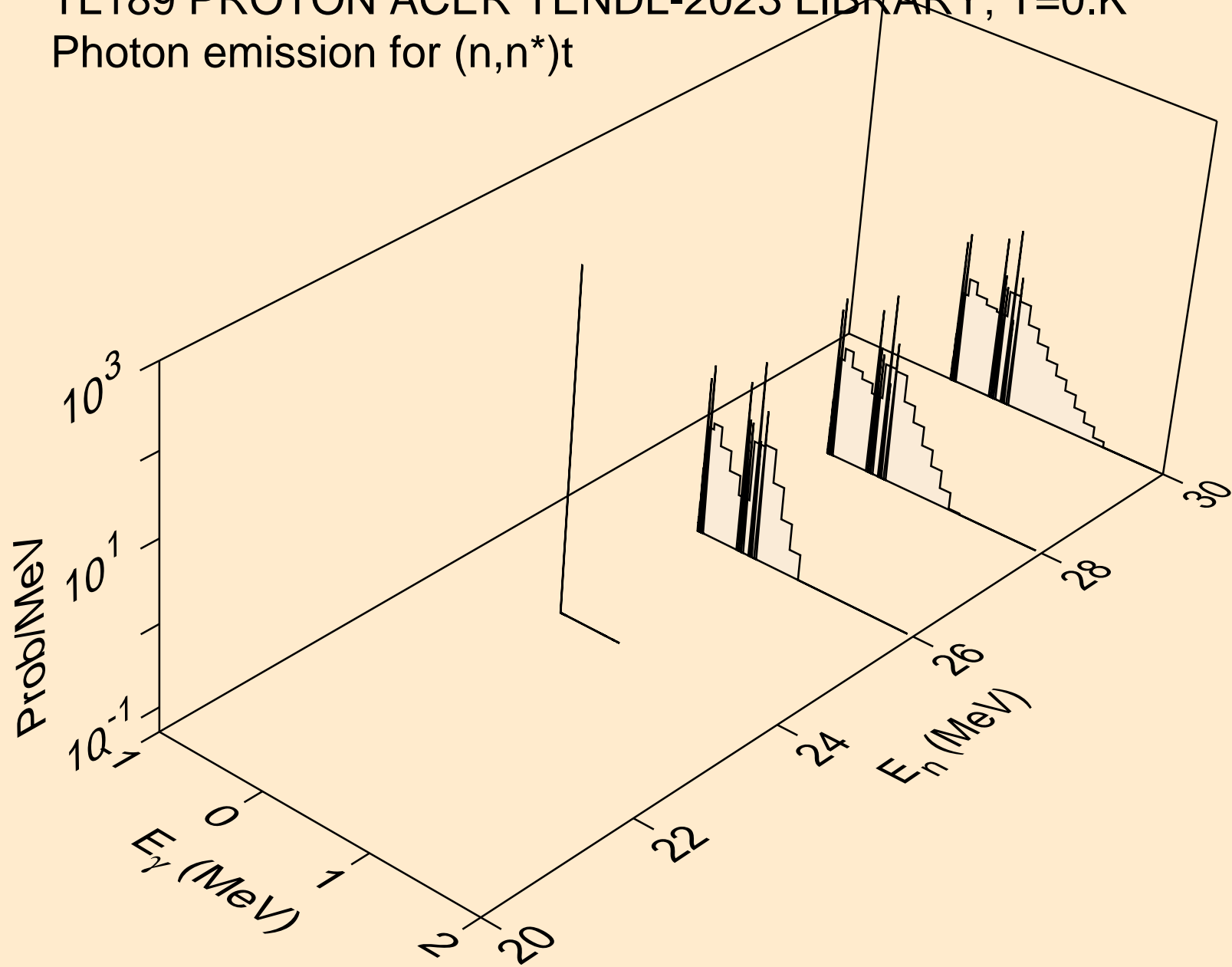
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



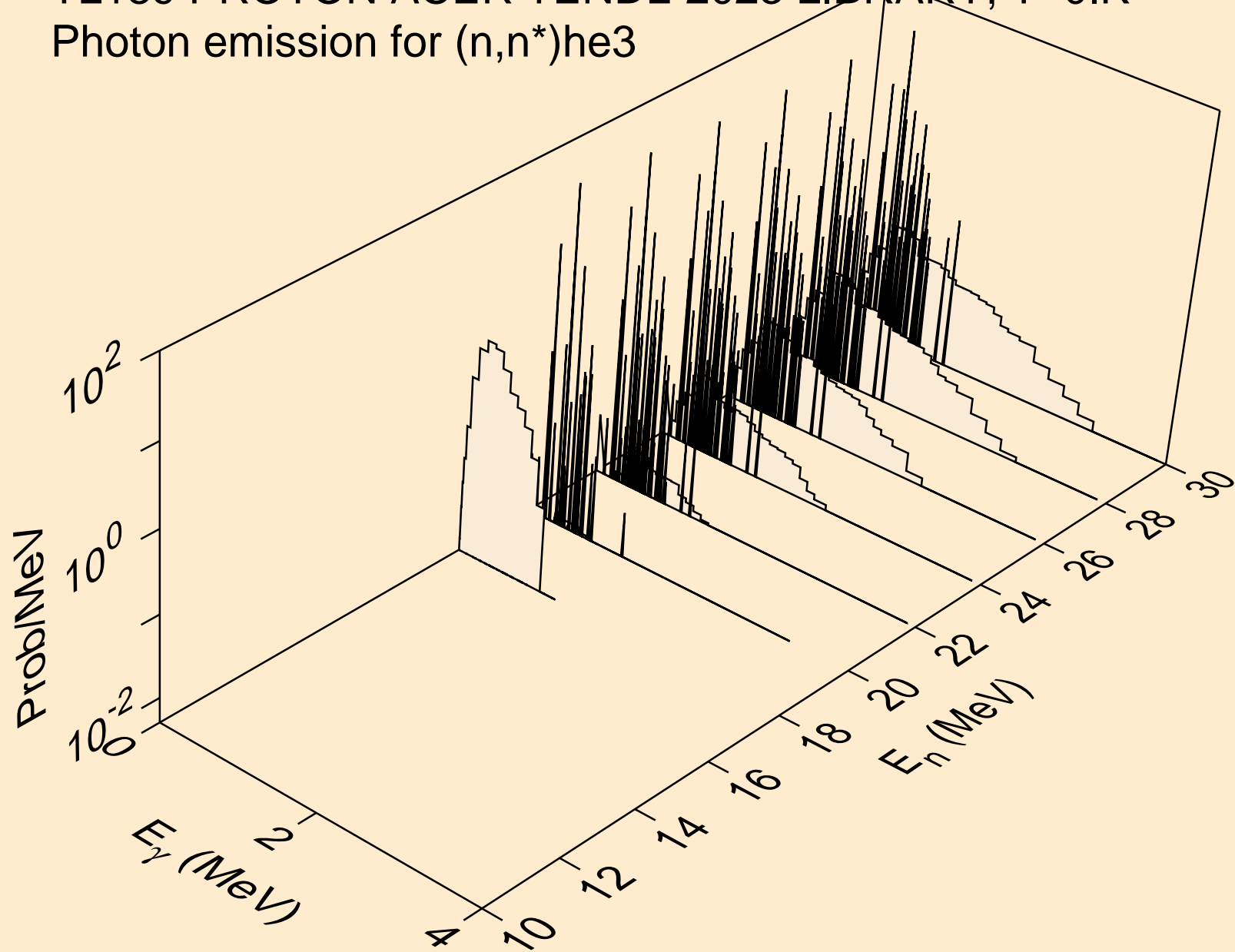
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t

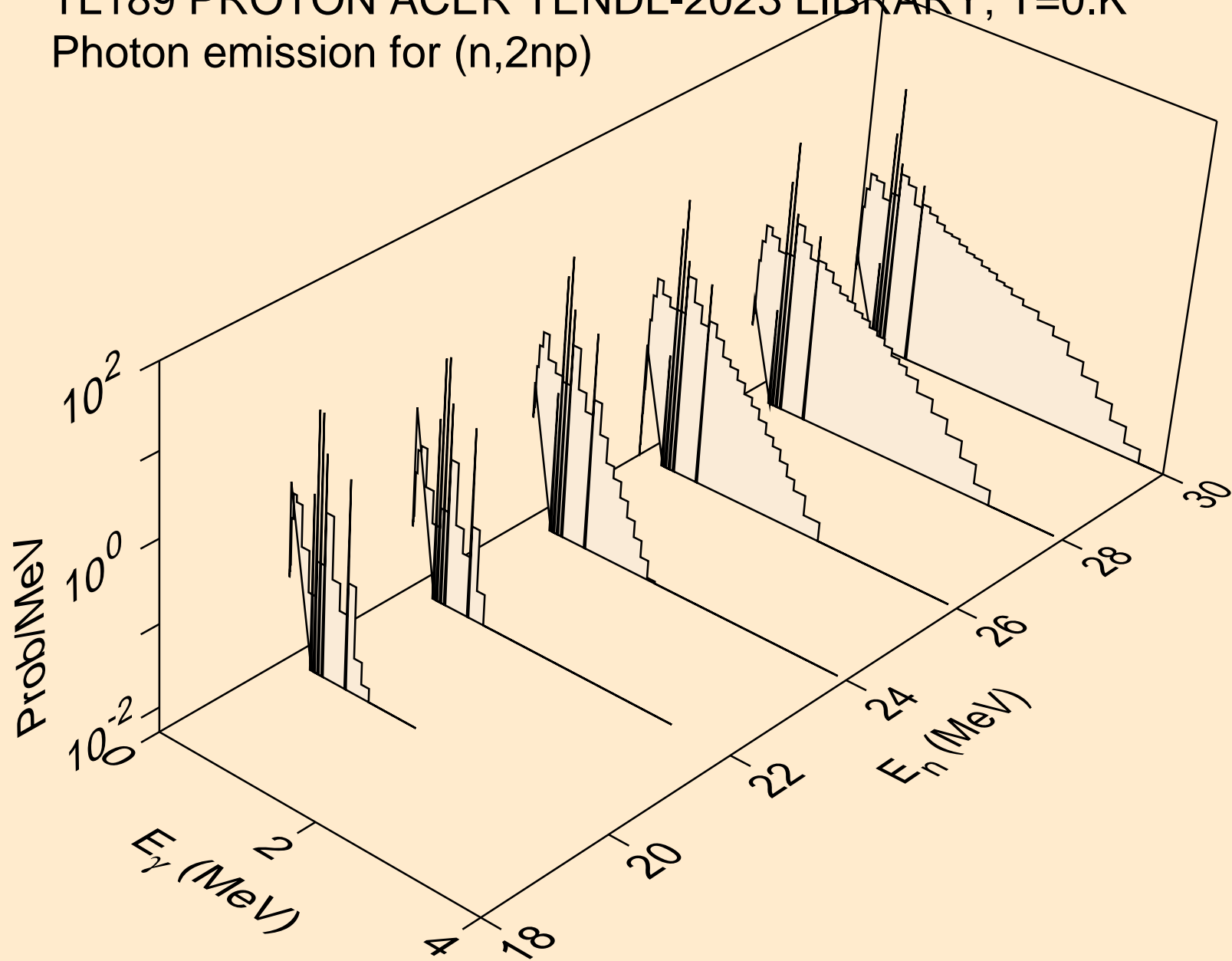


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3

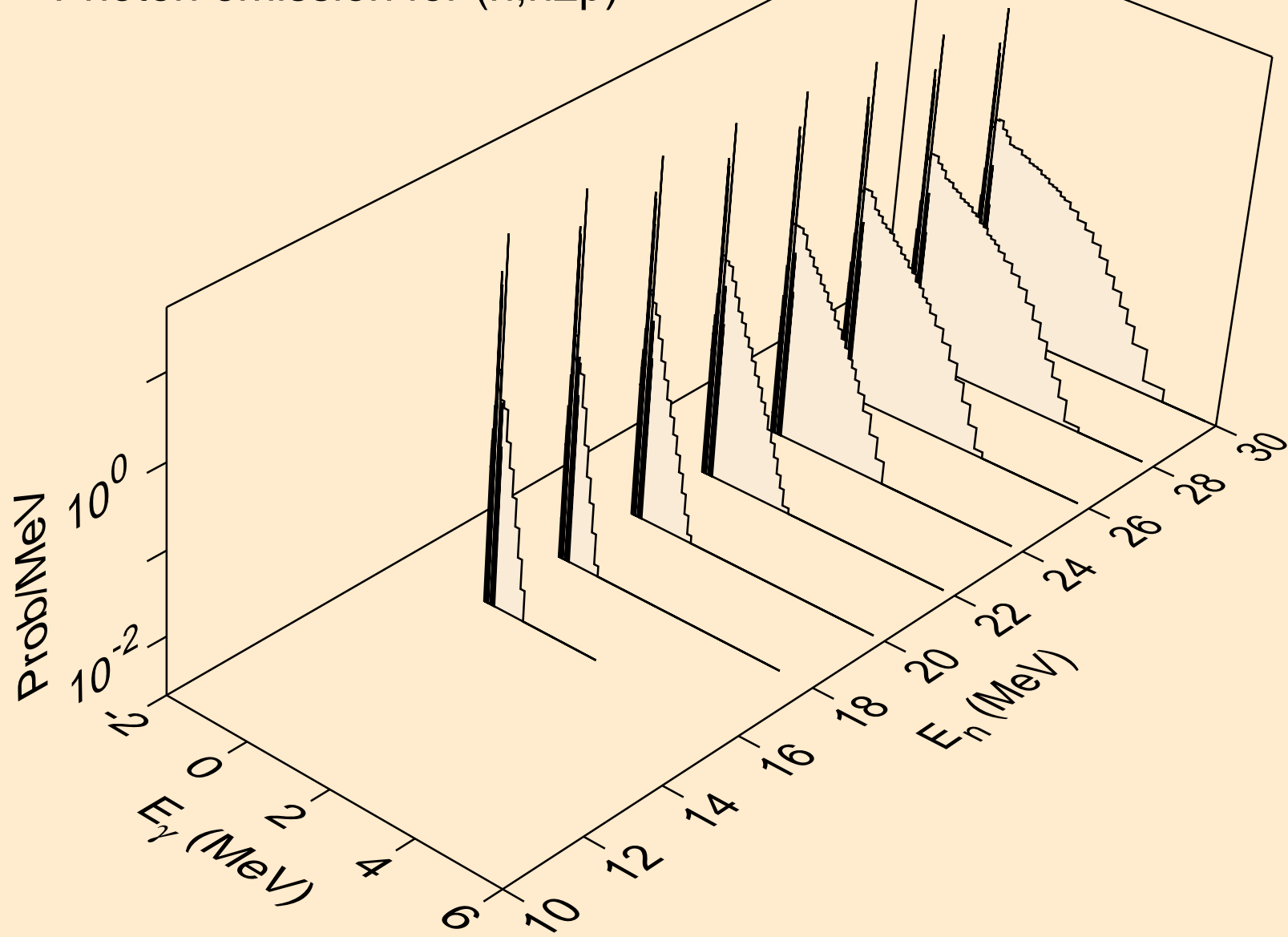




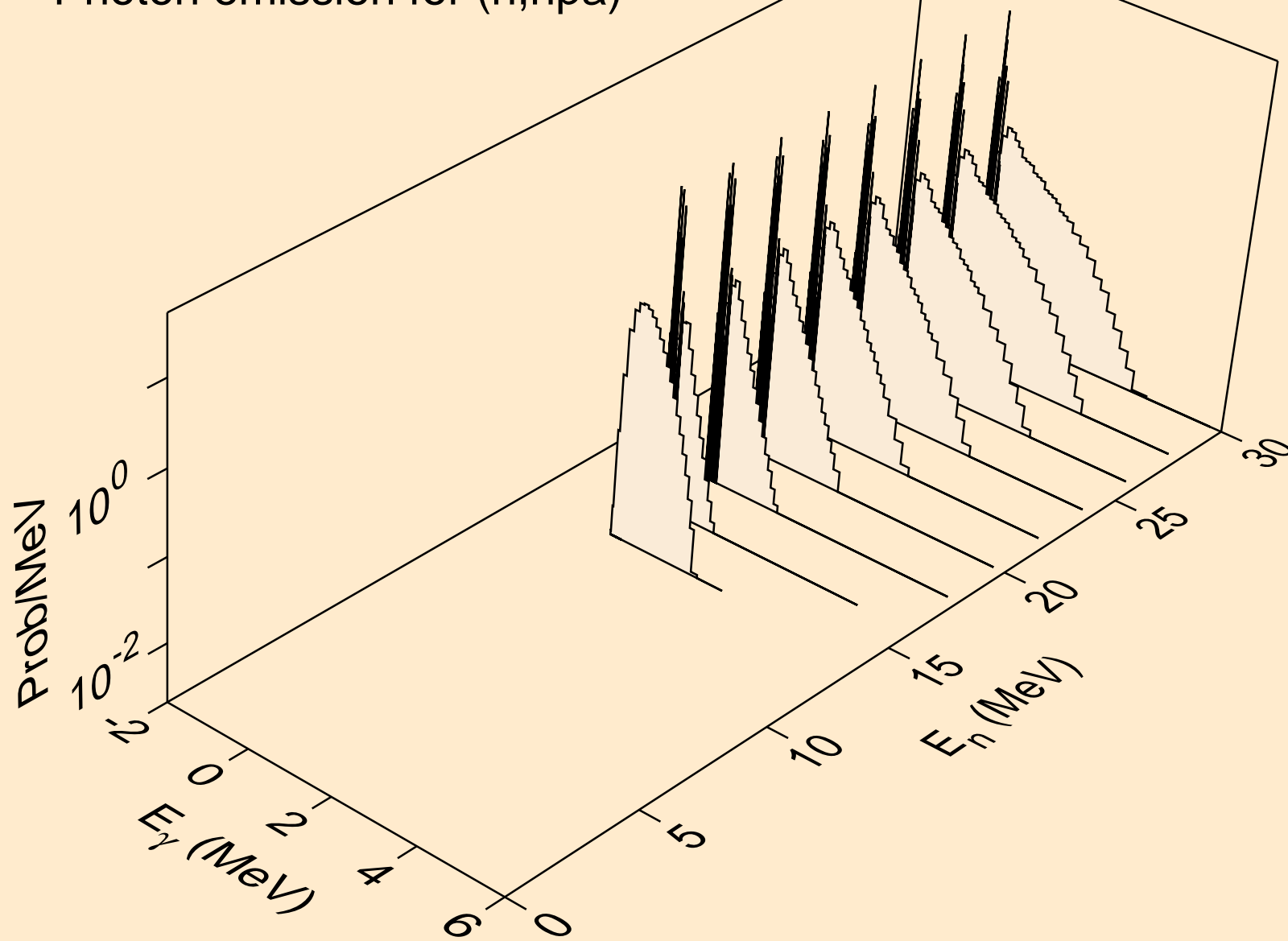
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



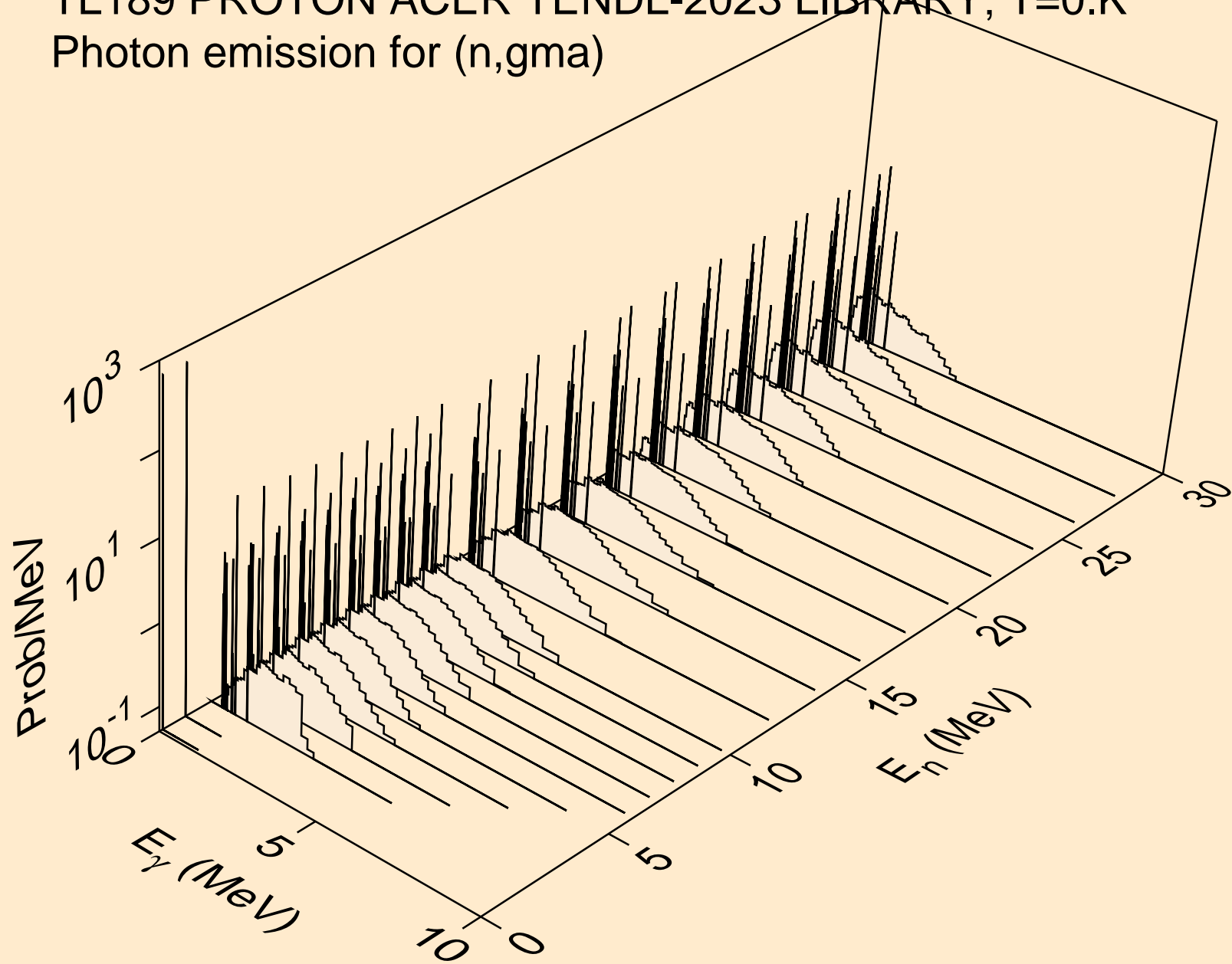
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



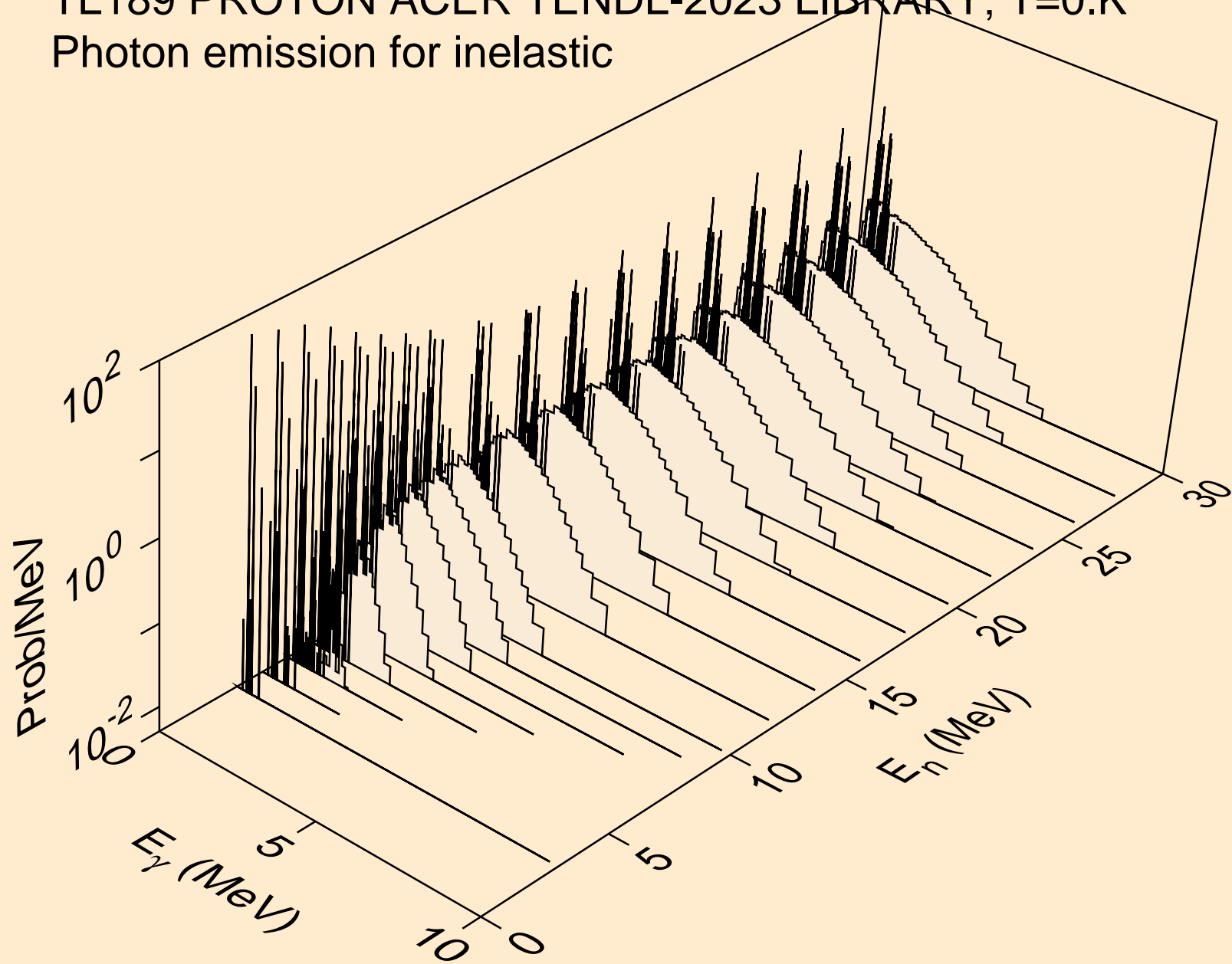
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



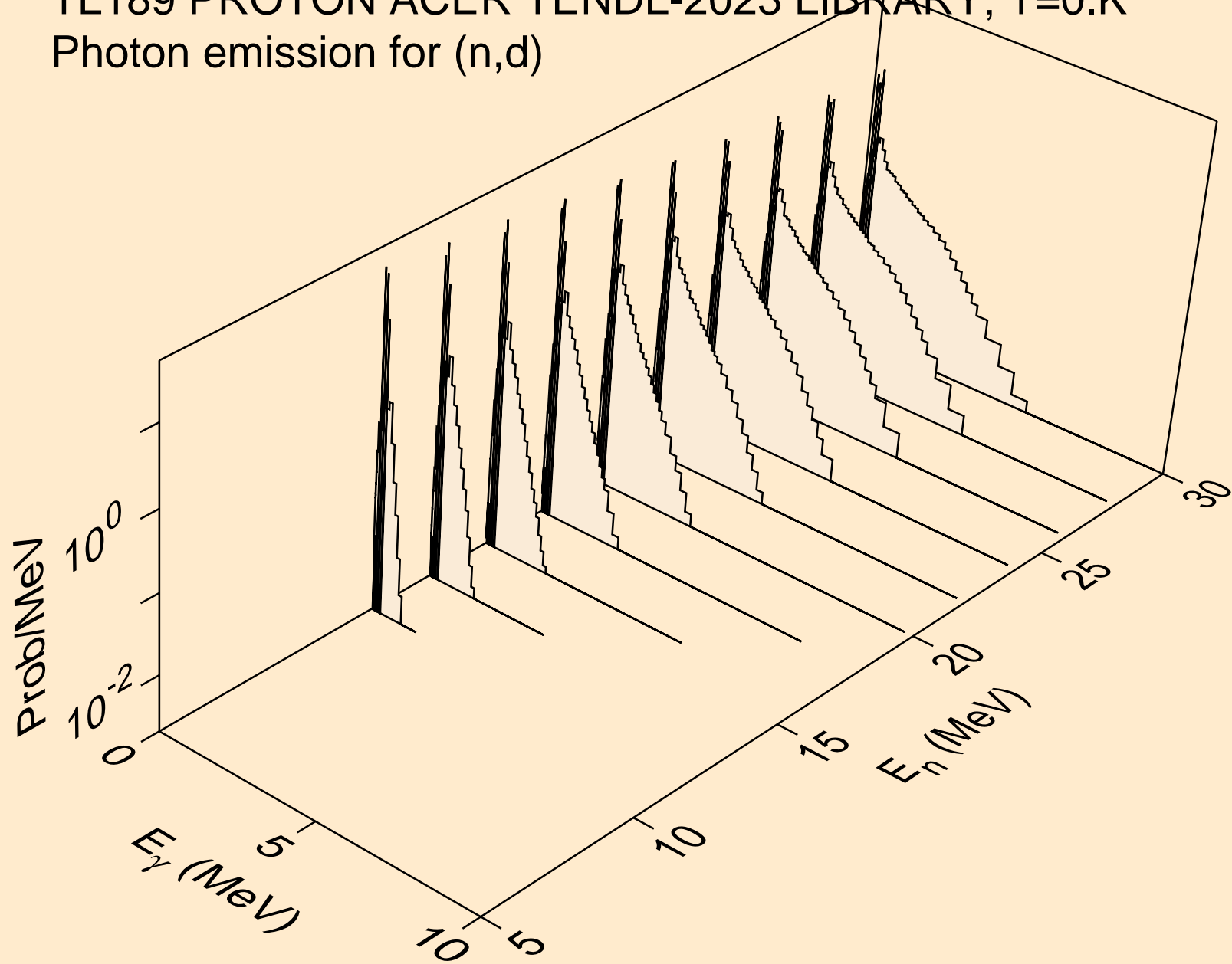
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



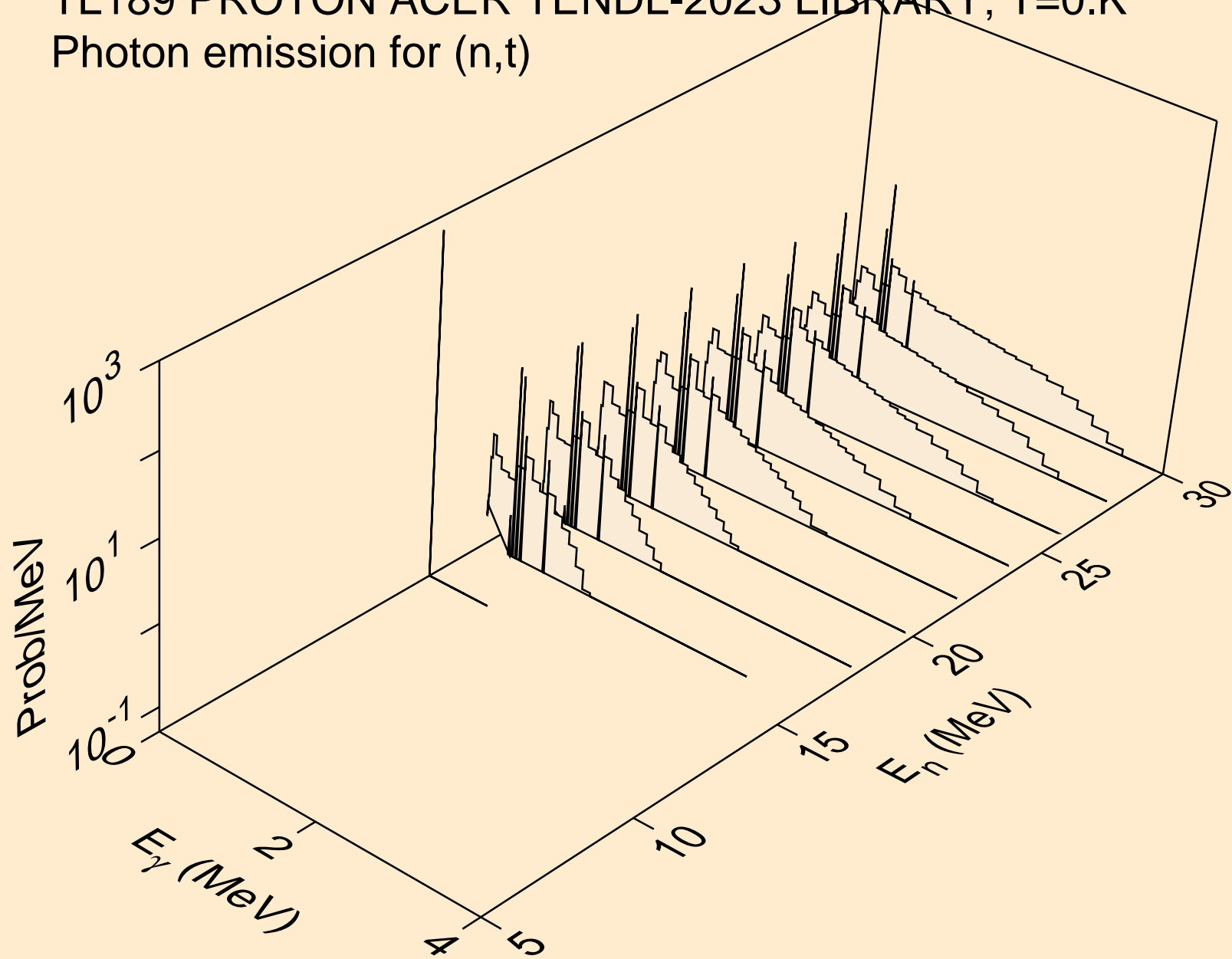
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



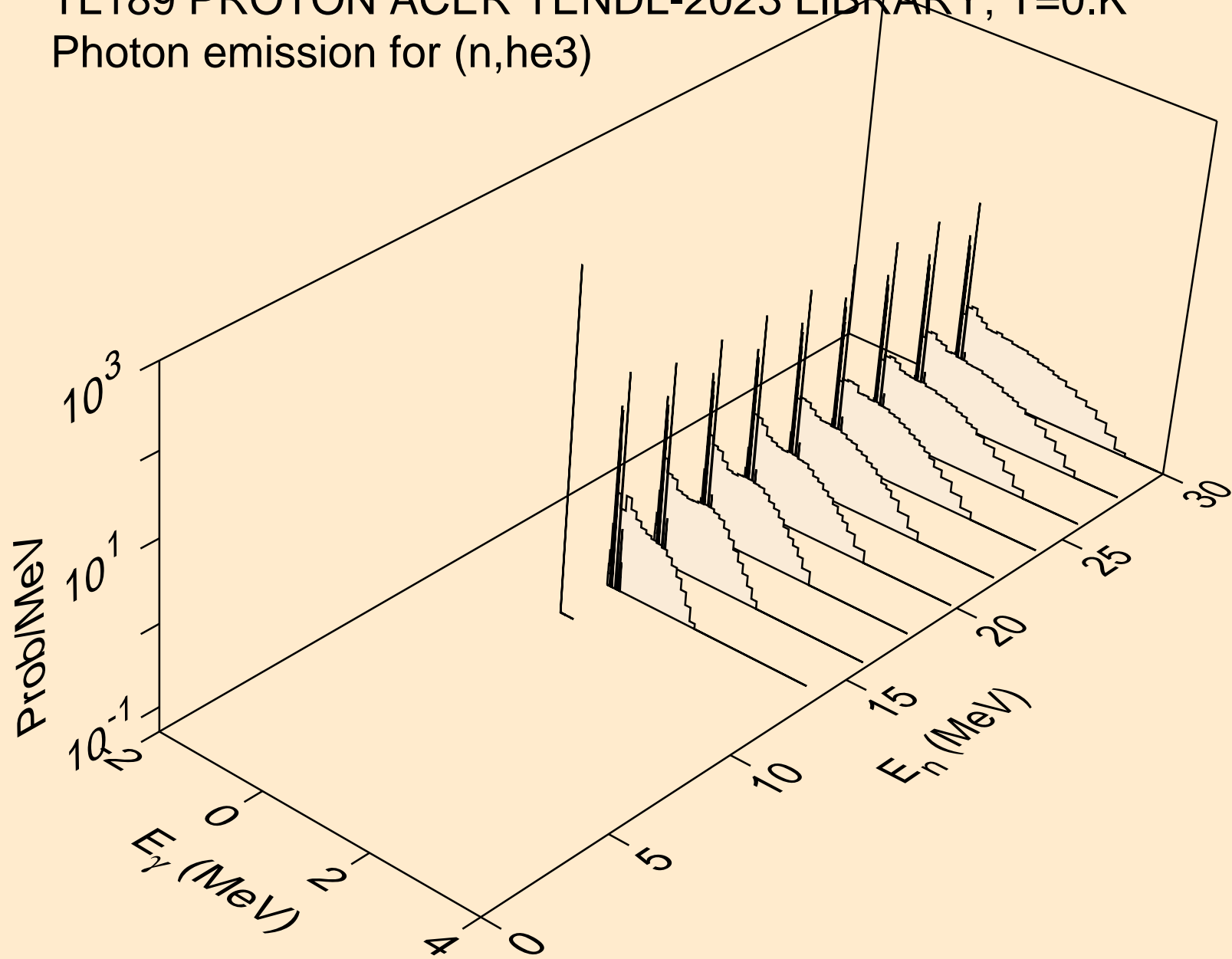
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

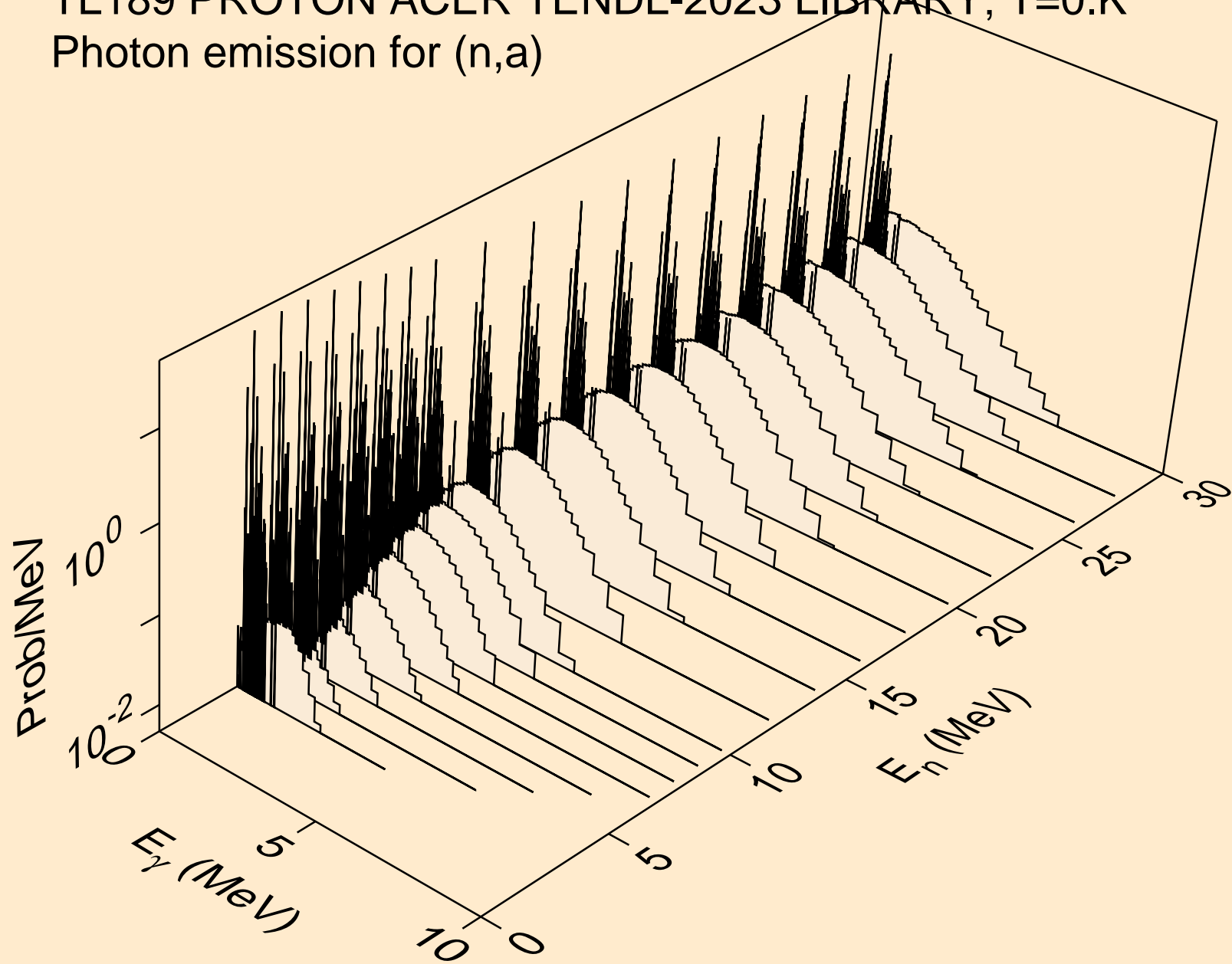


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)

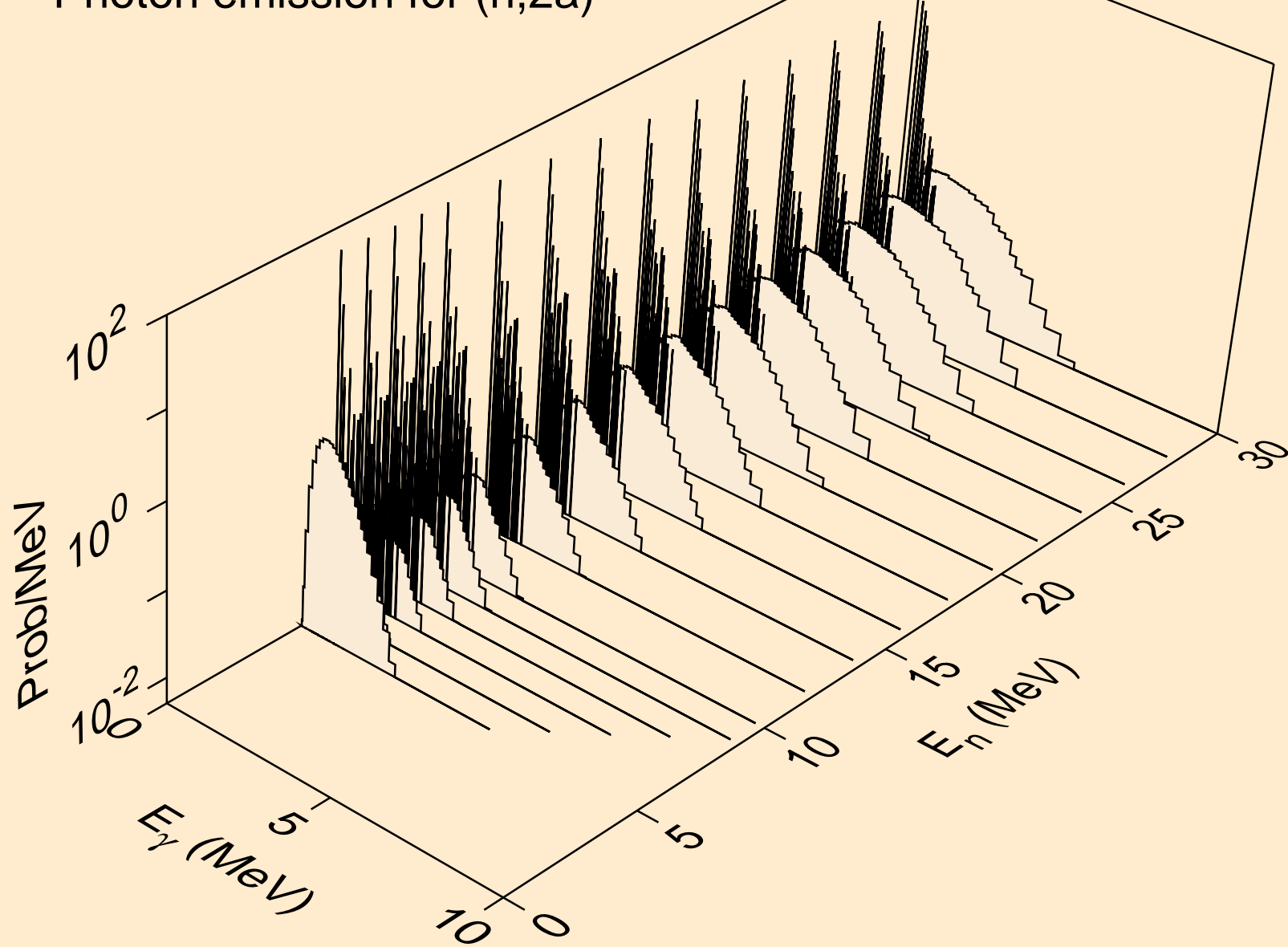




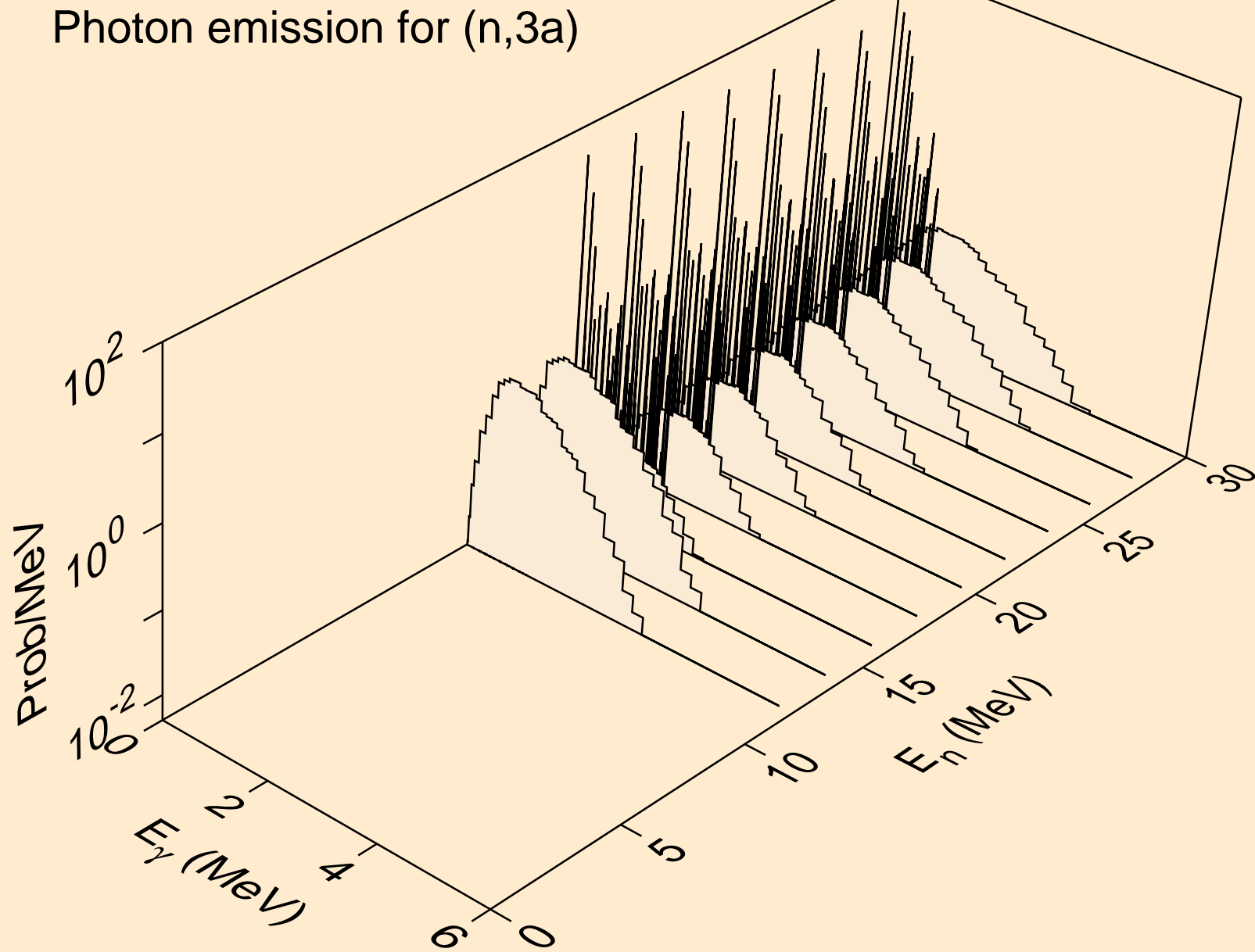
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



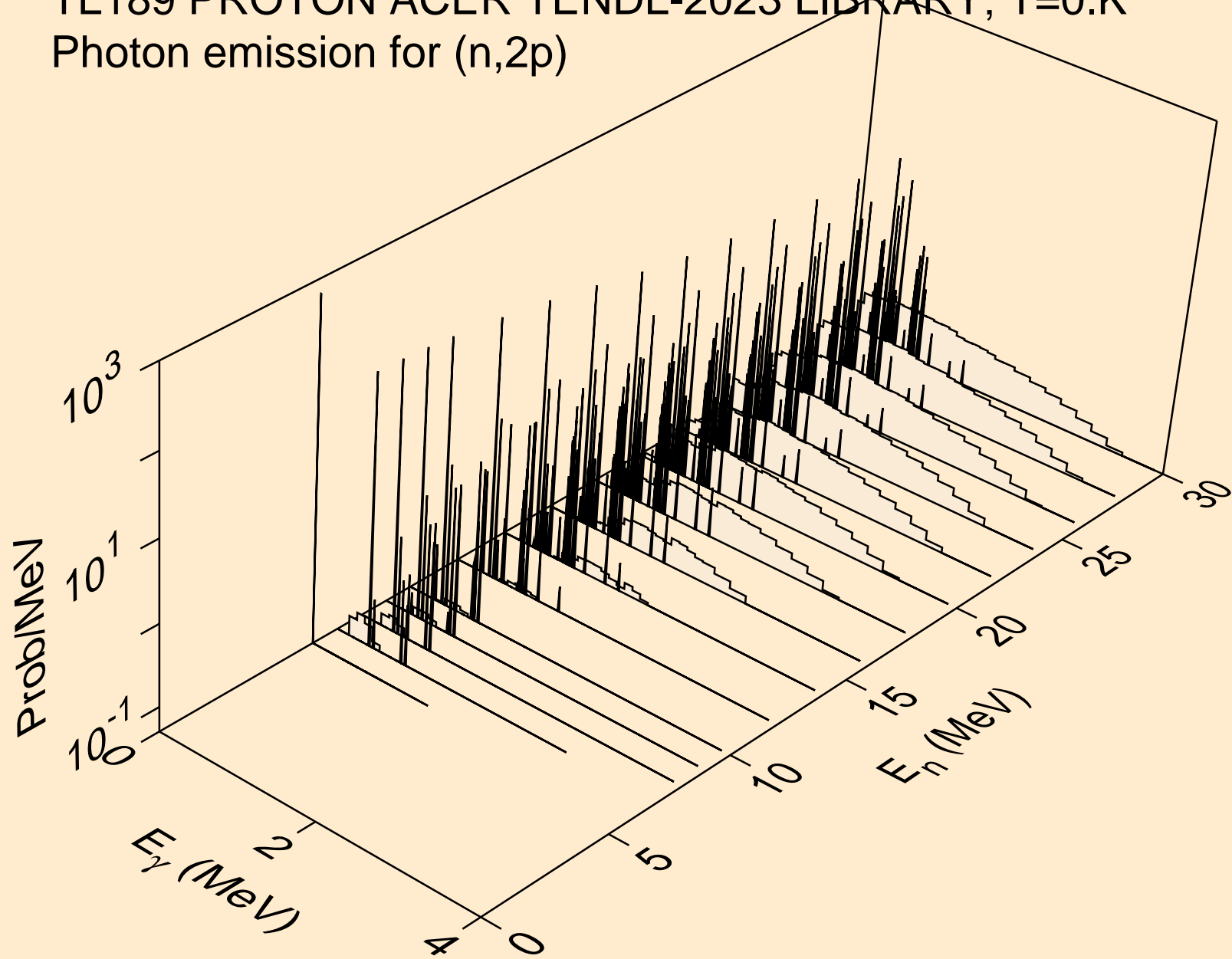
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



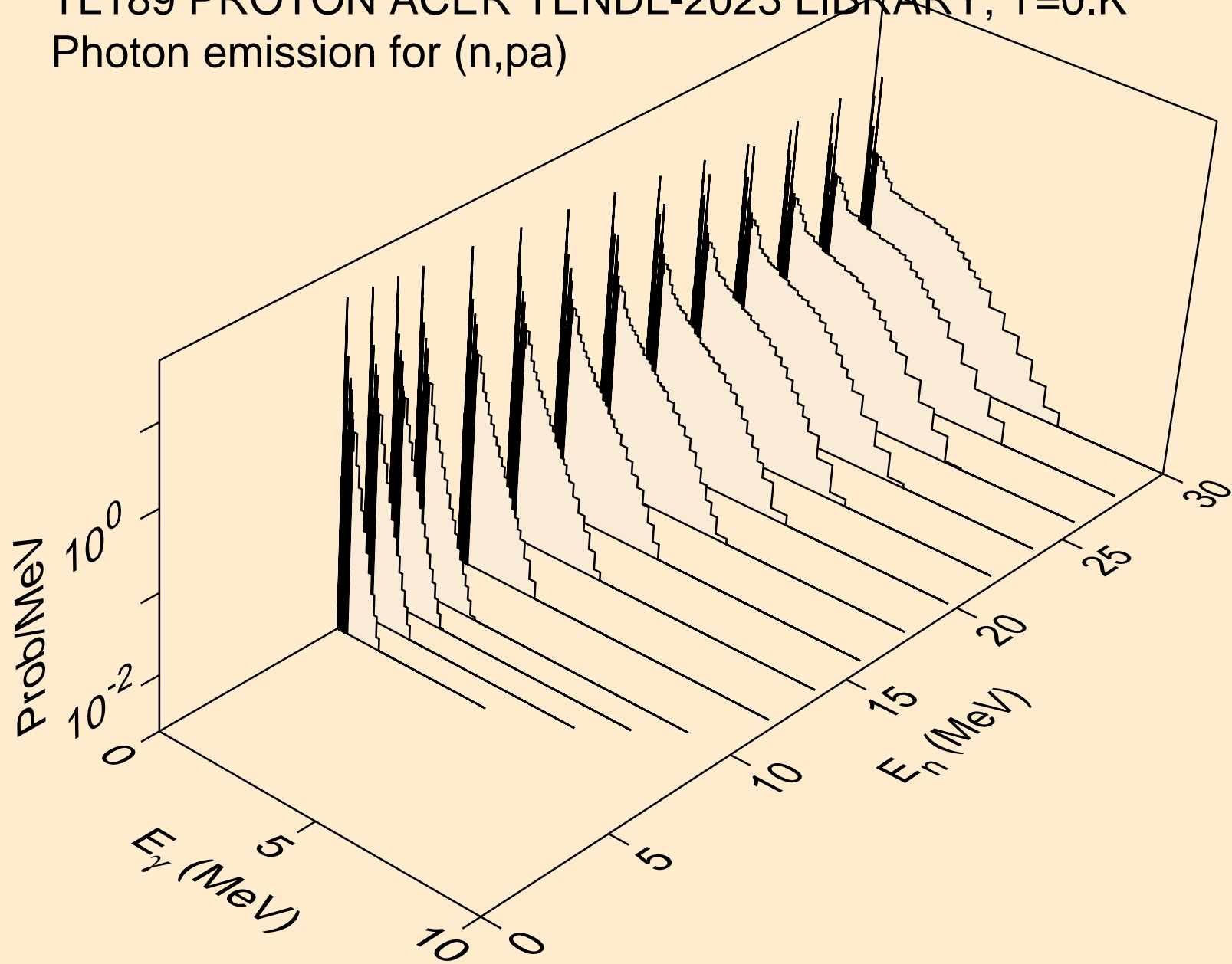
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



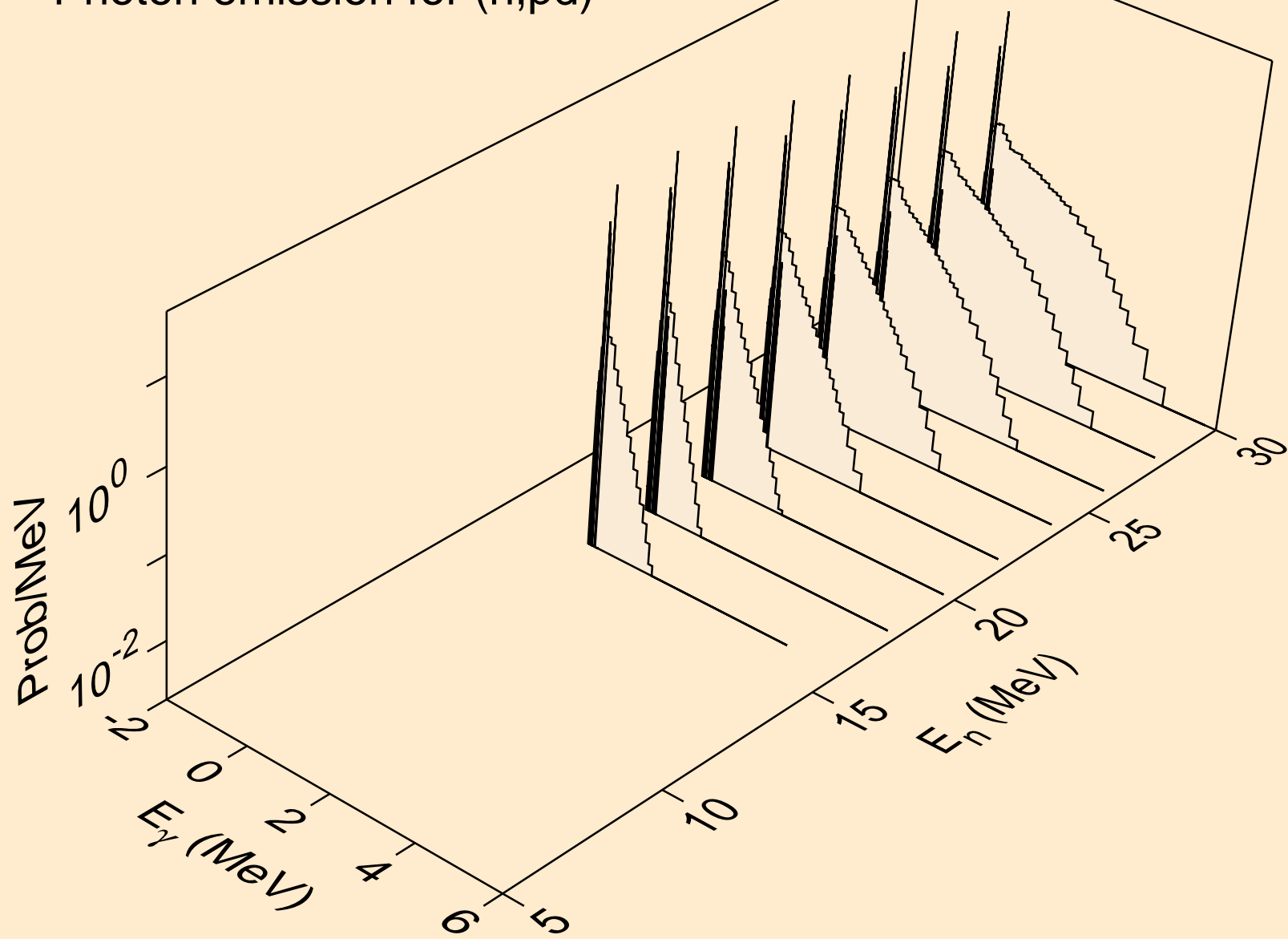
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



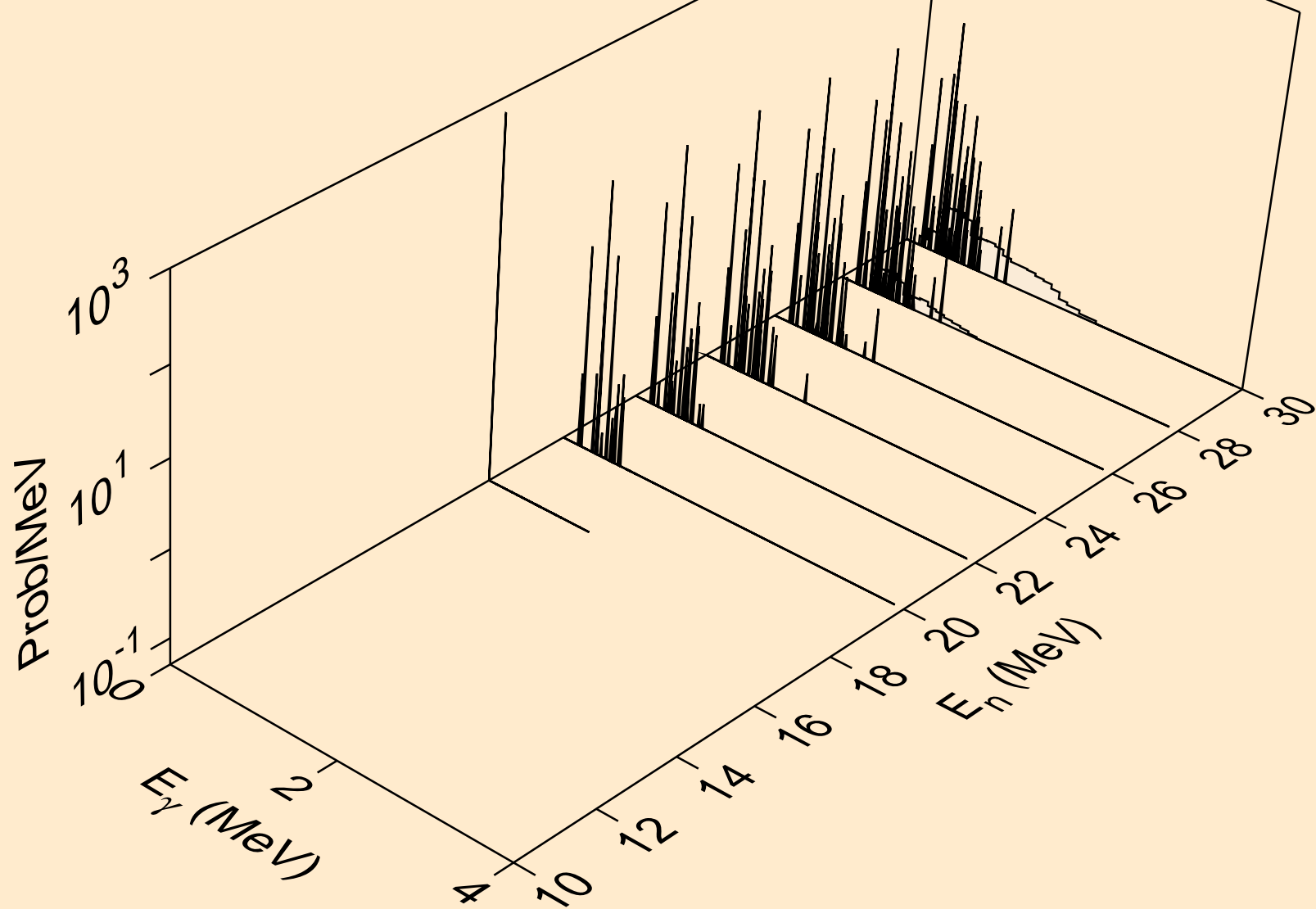
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)



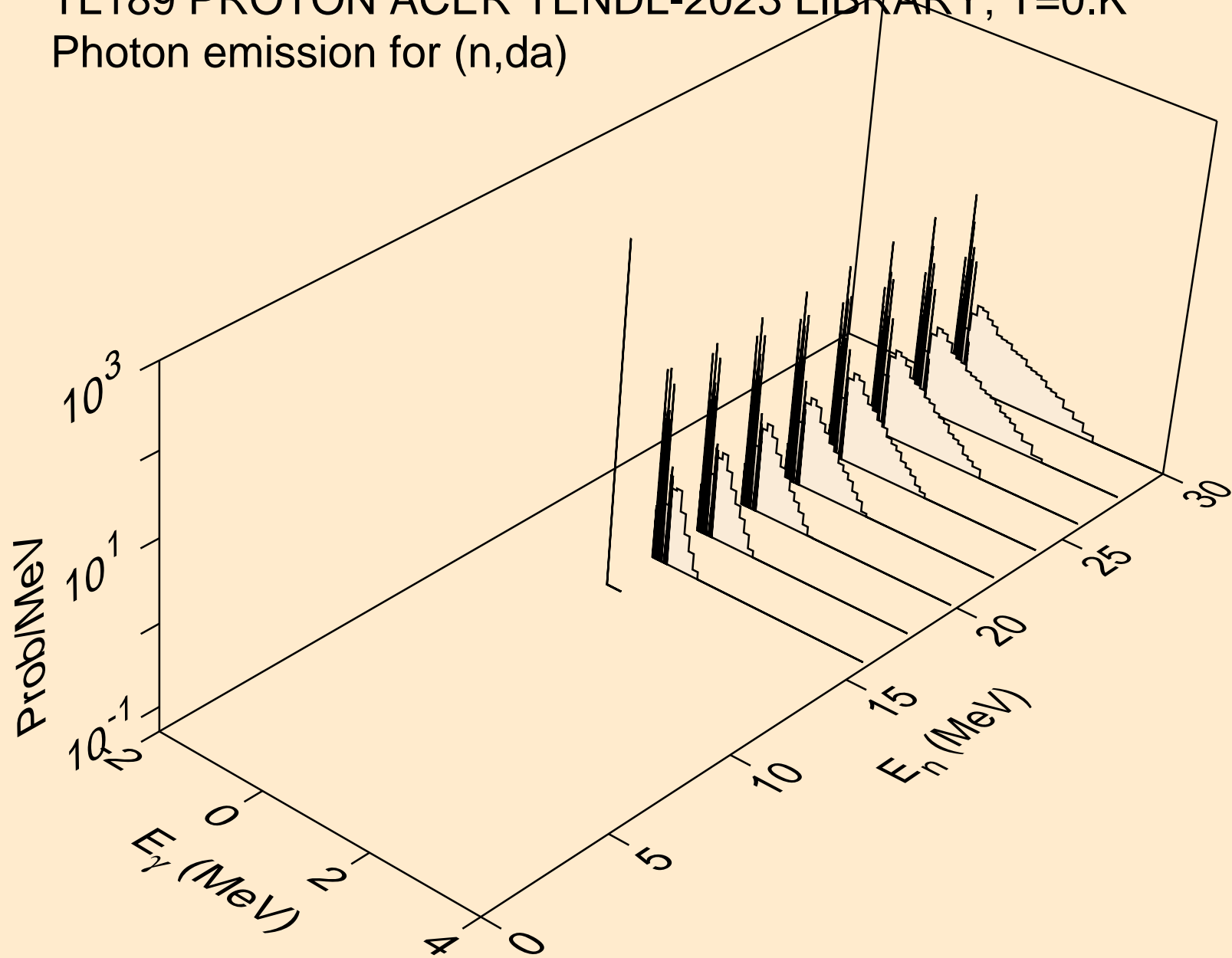
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



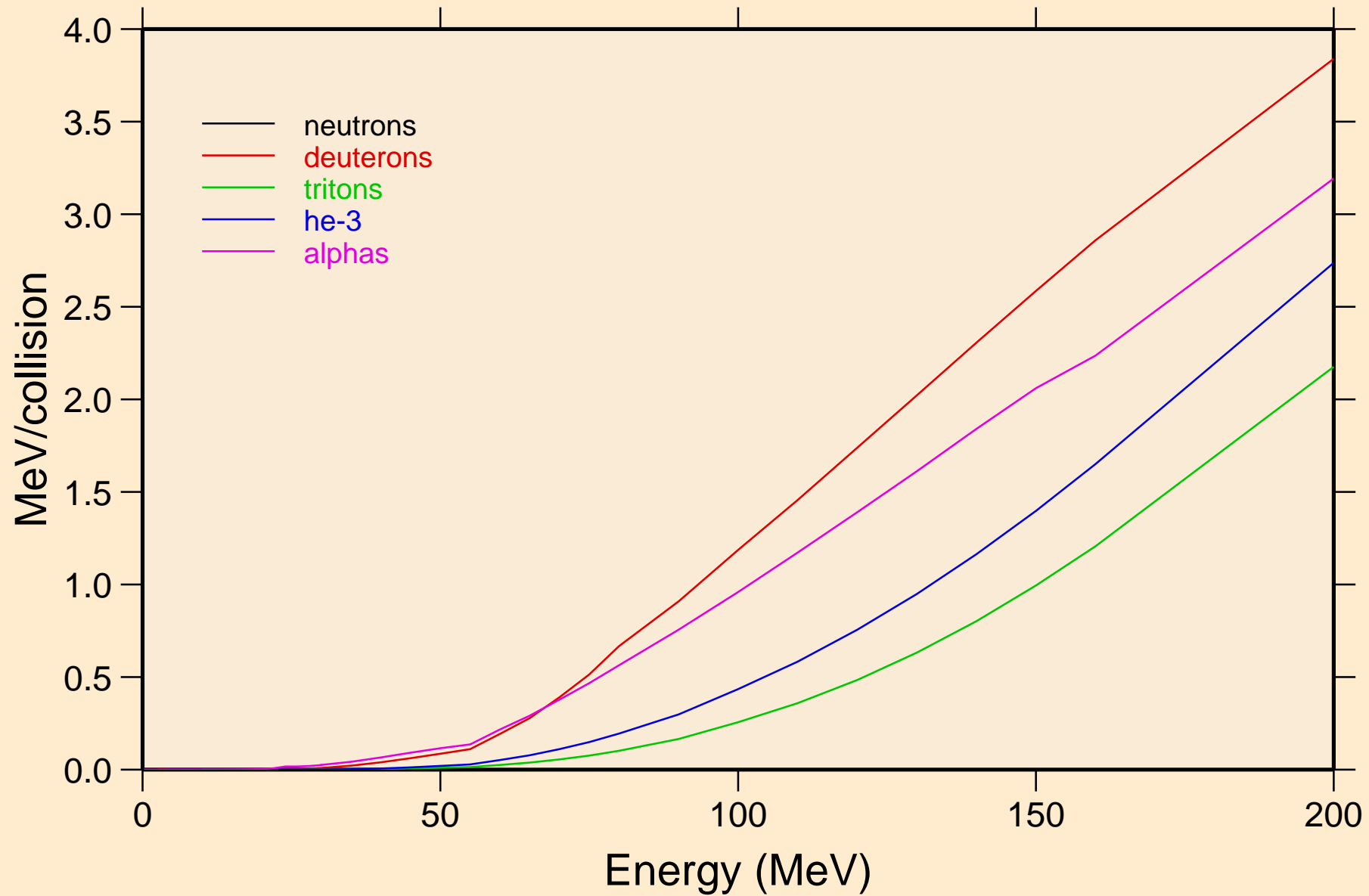
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



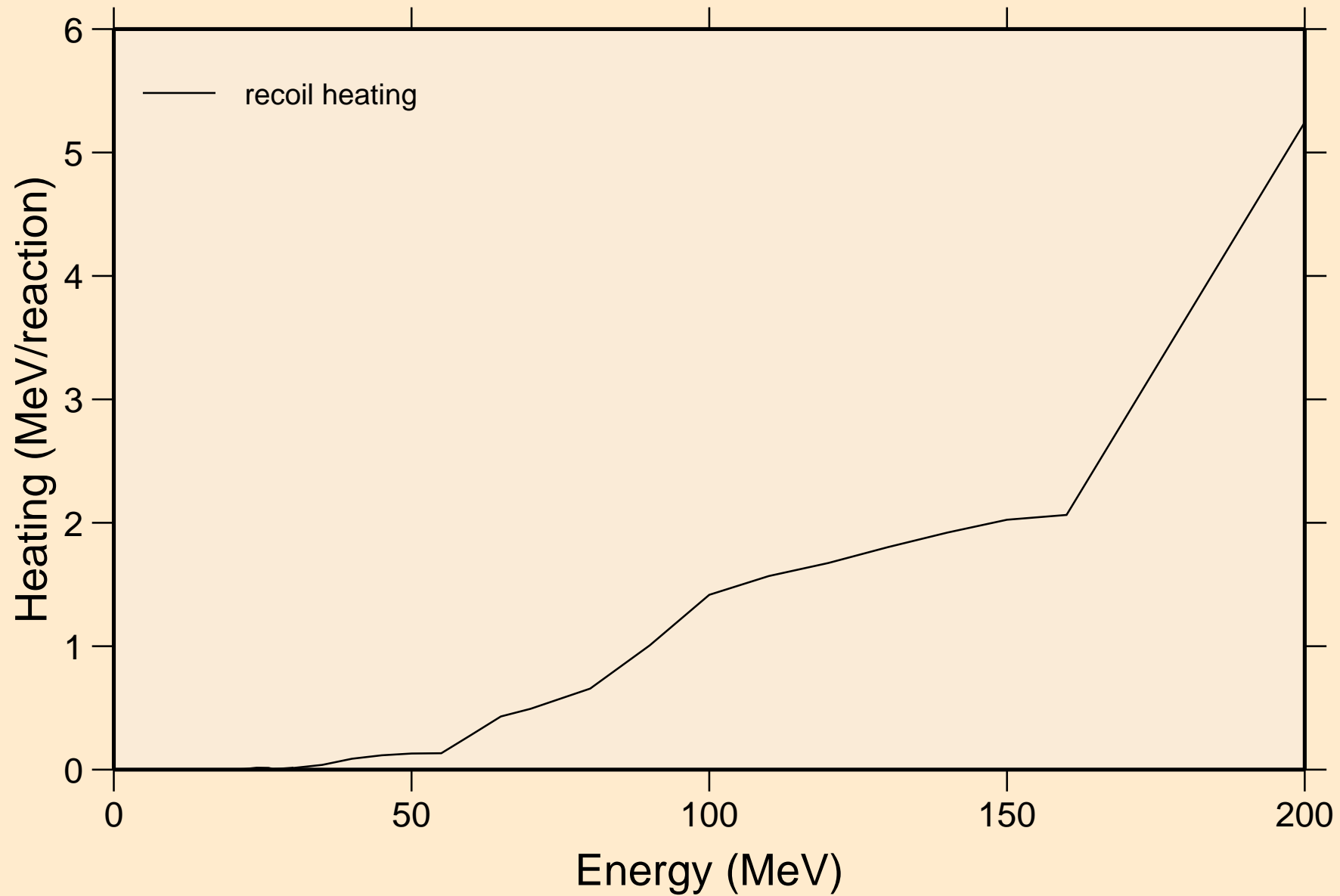


# TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K

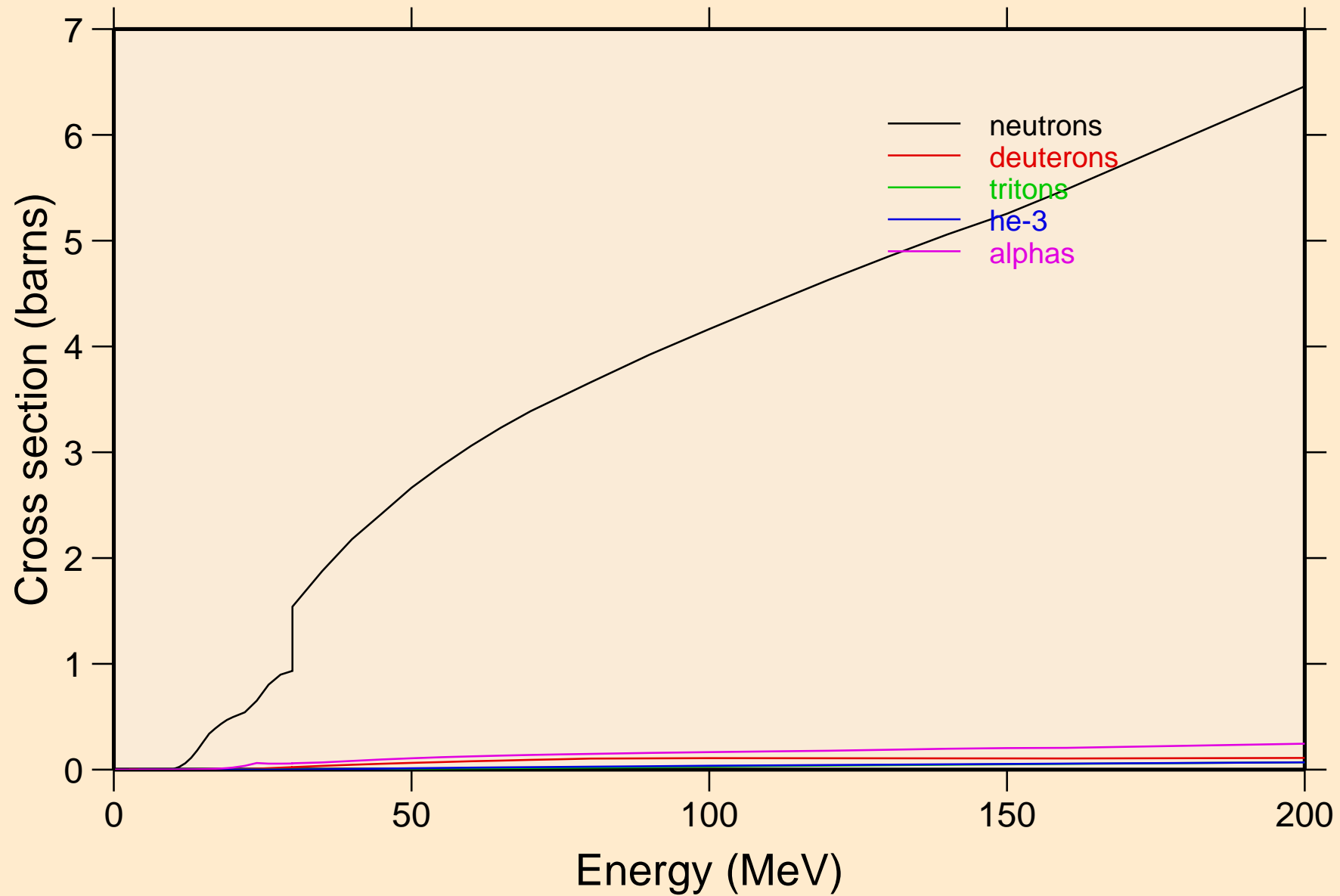
## Particle heating contributions



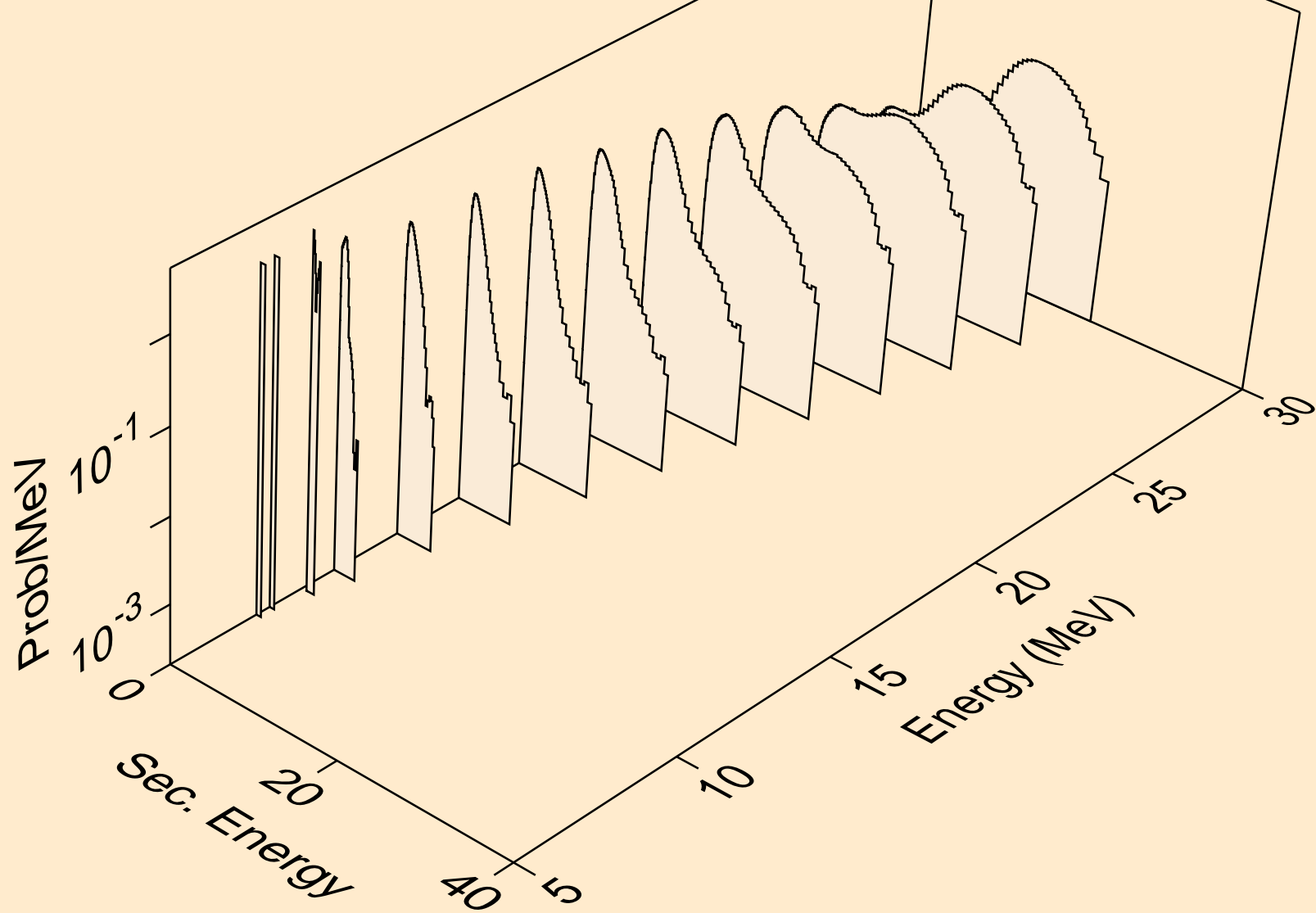
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating



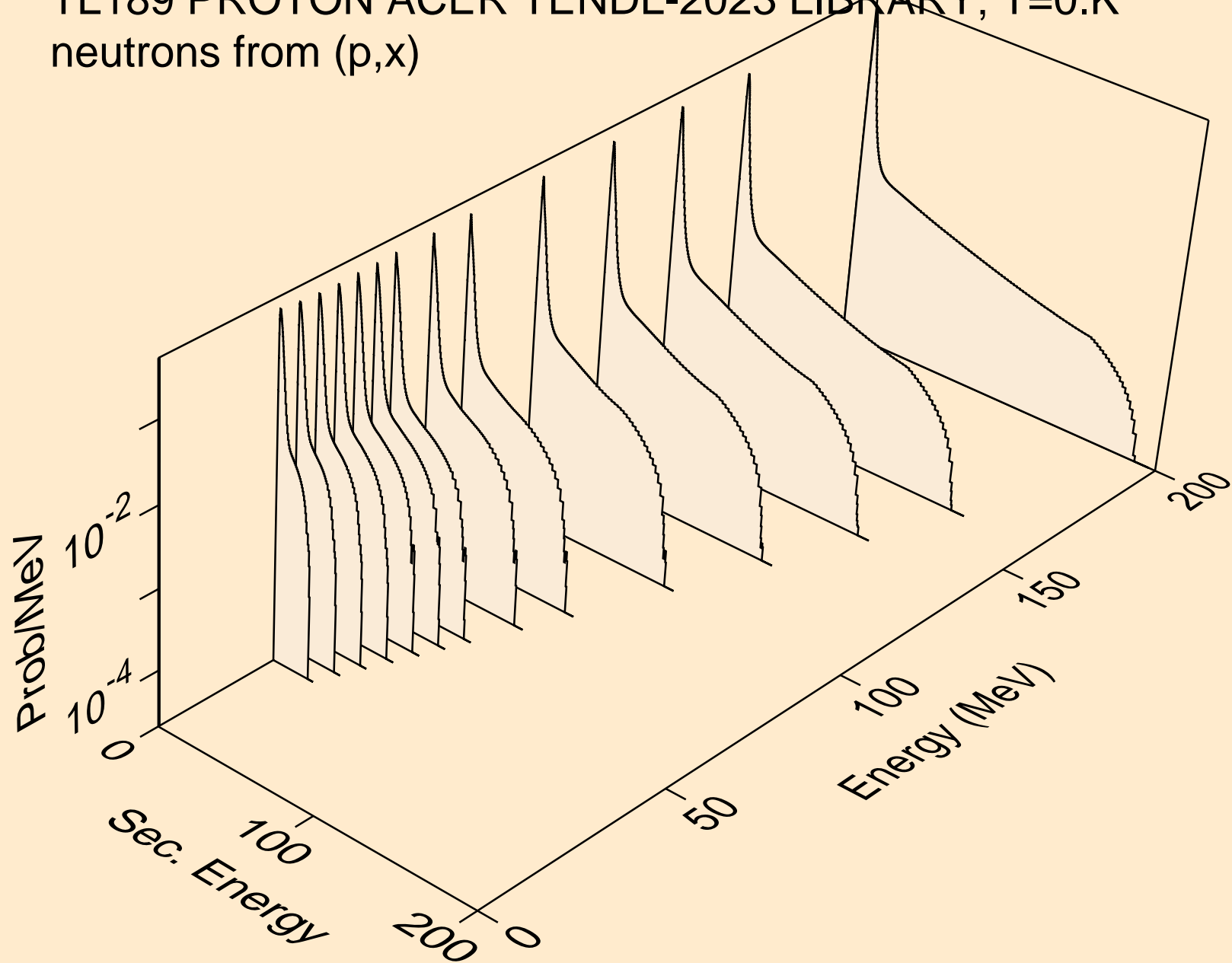
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



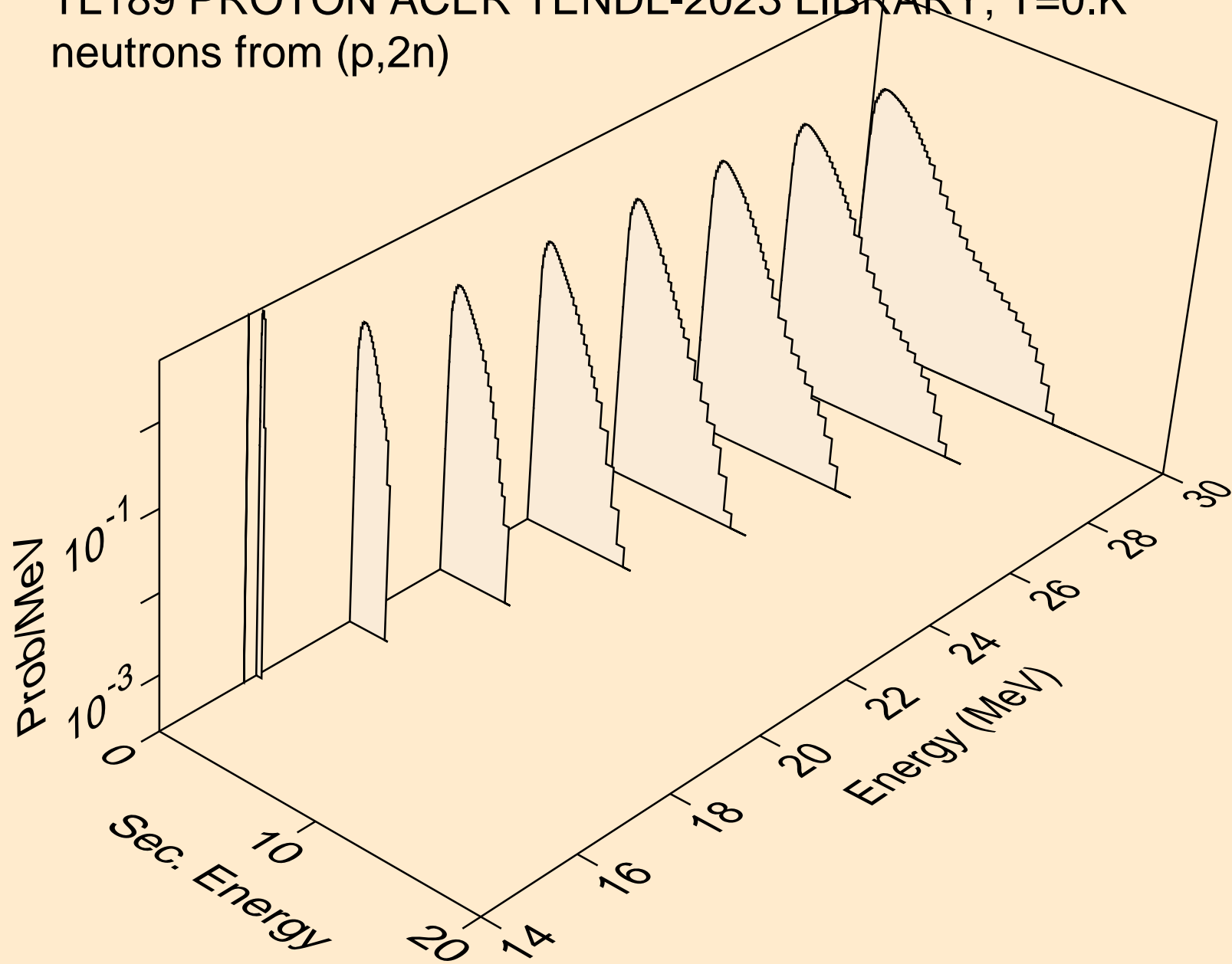
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n)



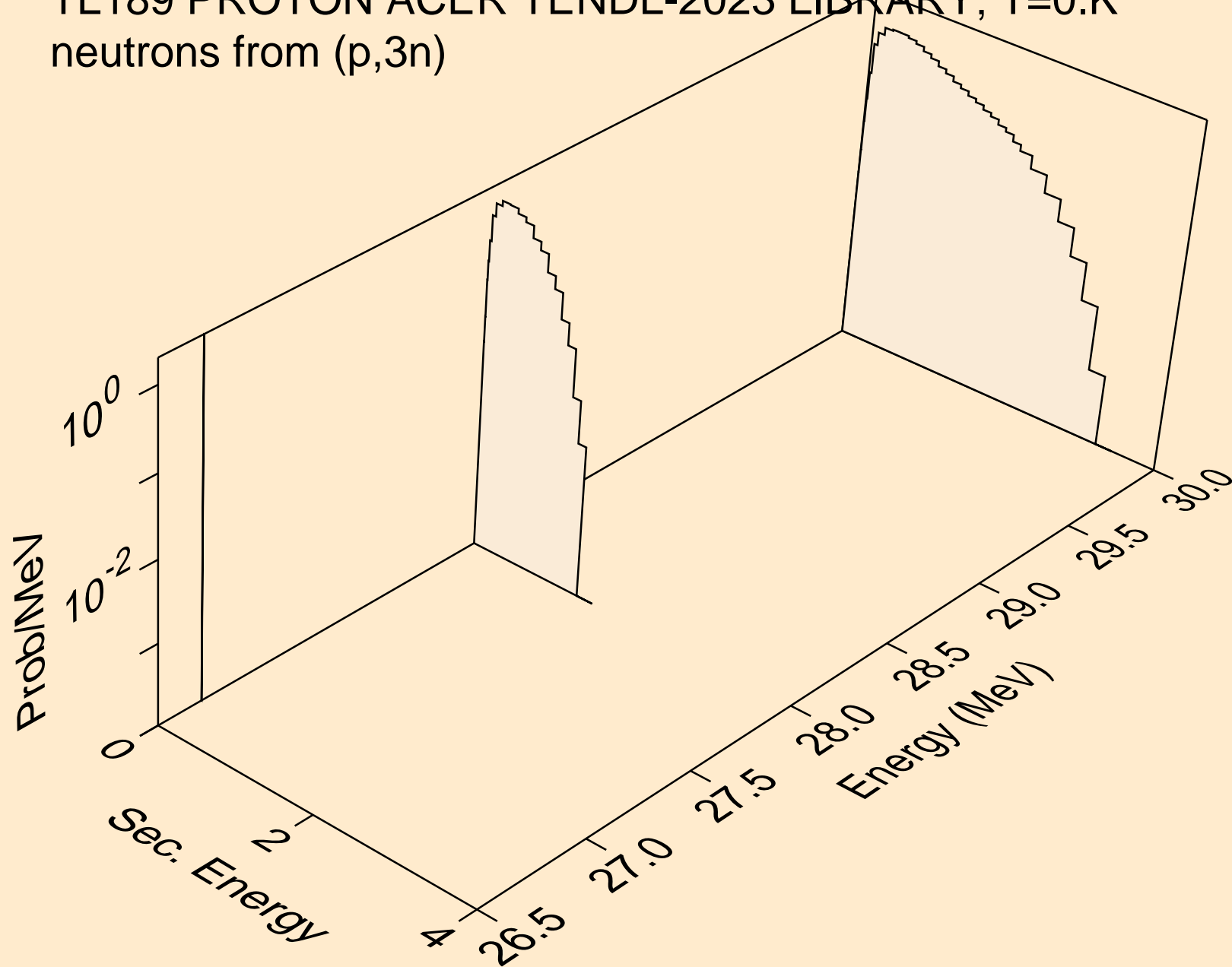
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,x)



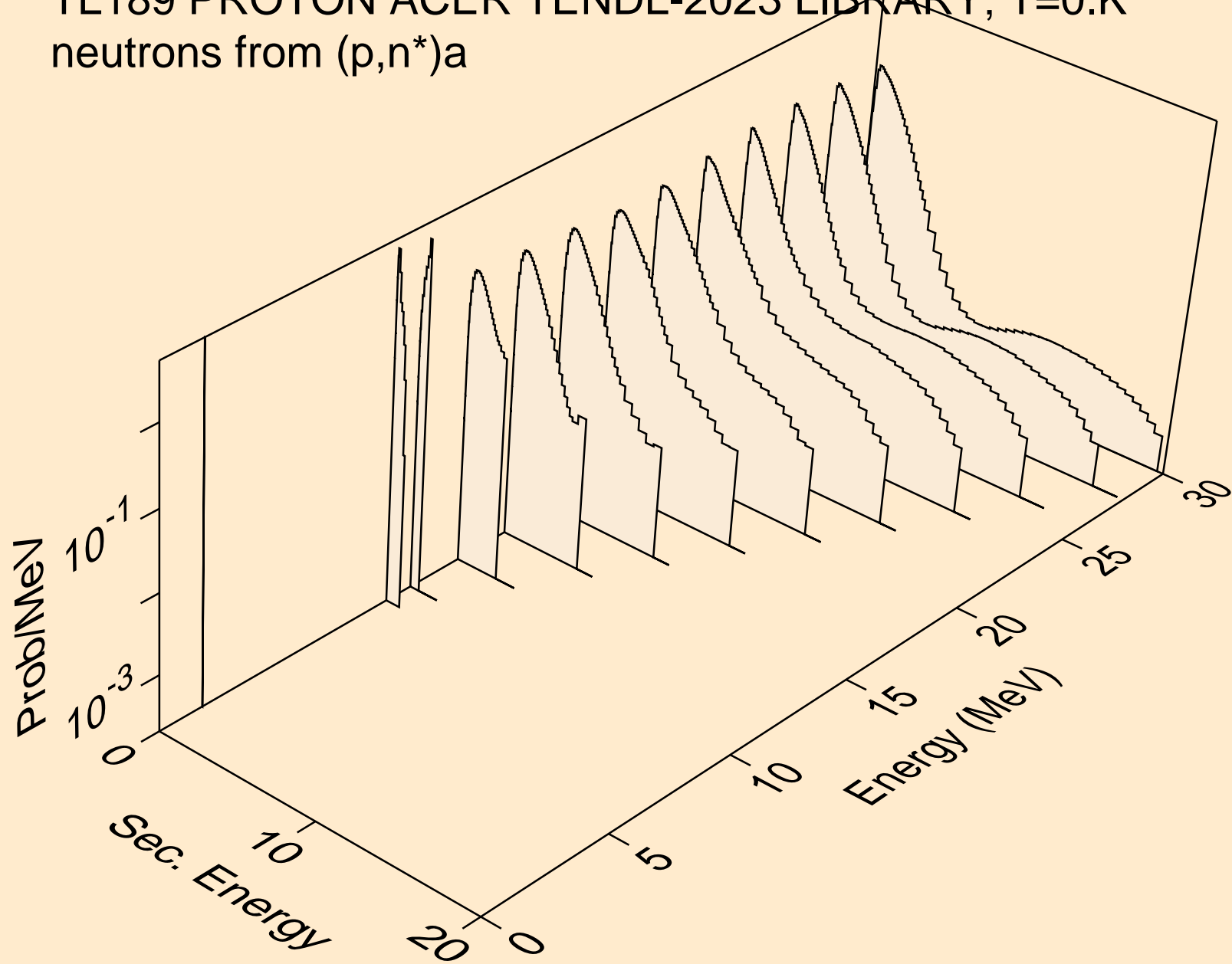
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)

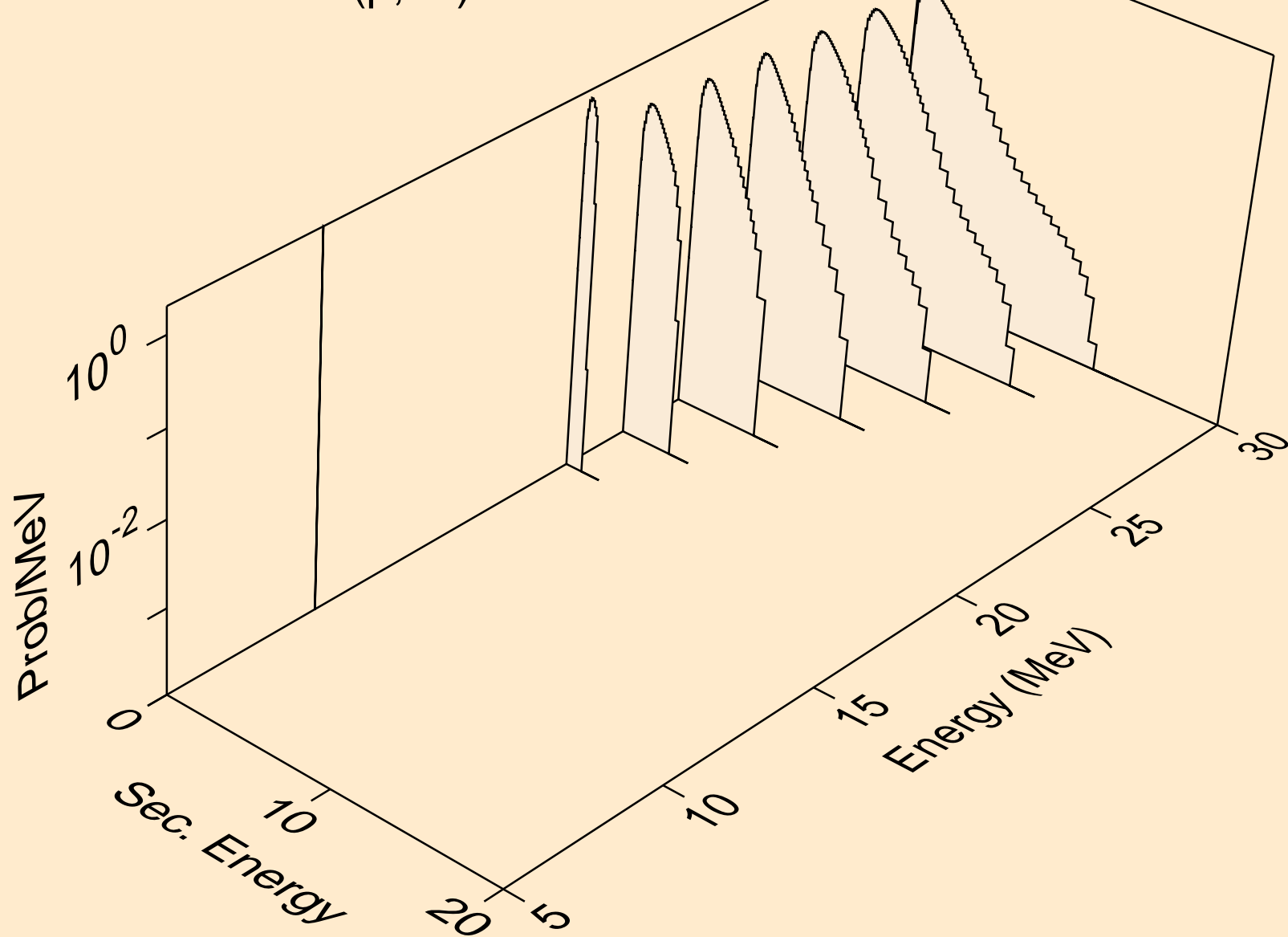


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)a

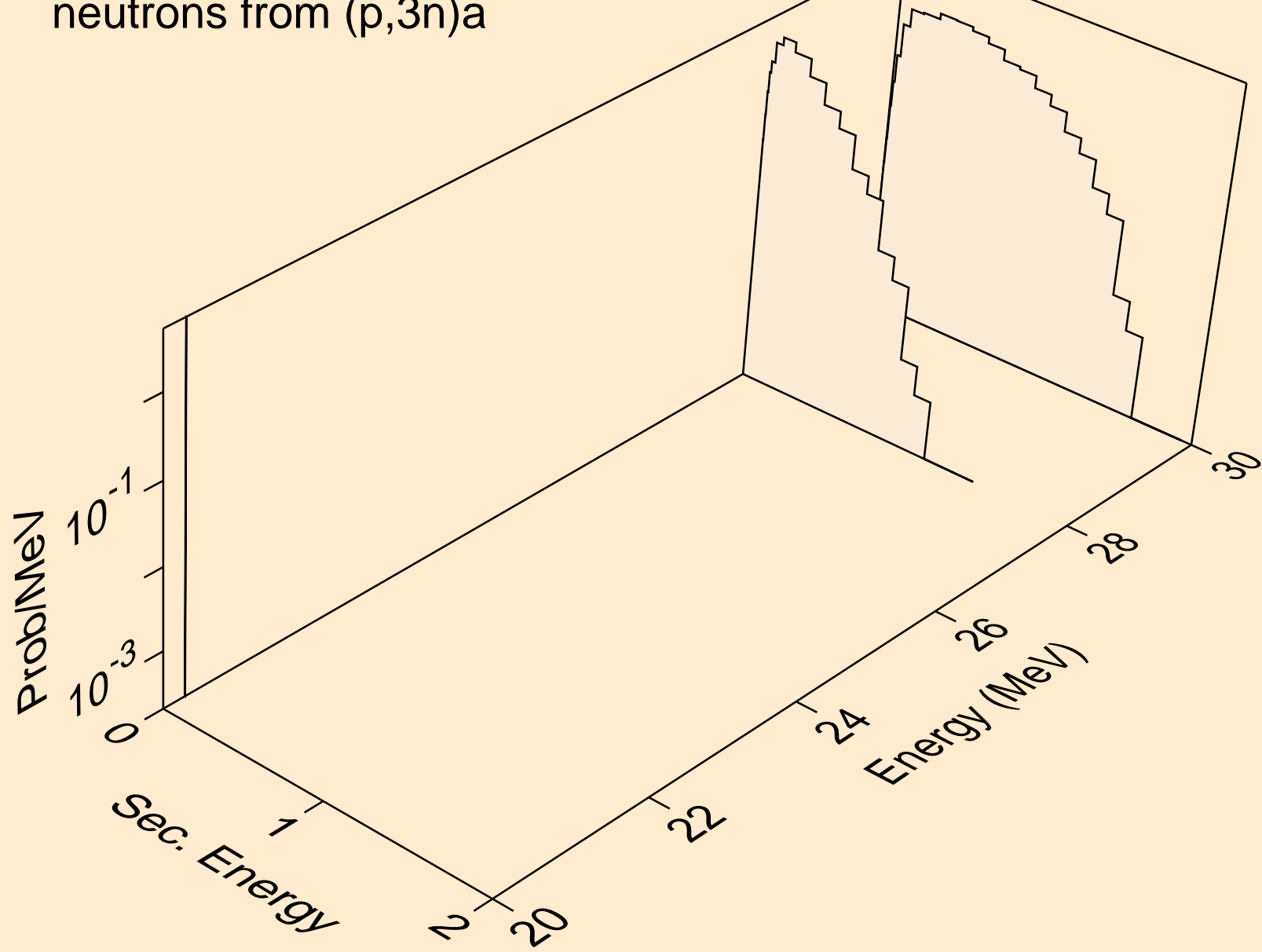




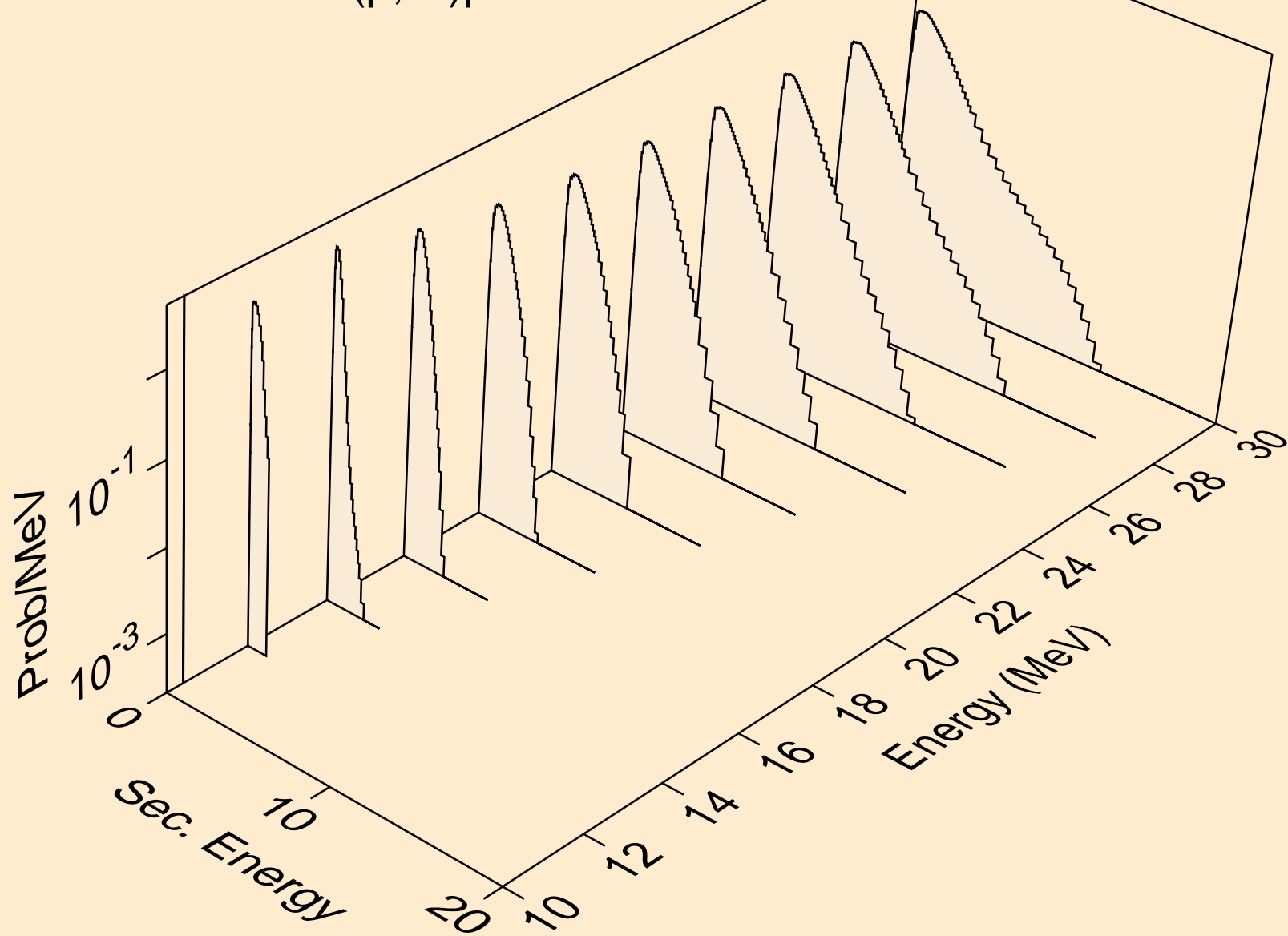
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)a



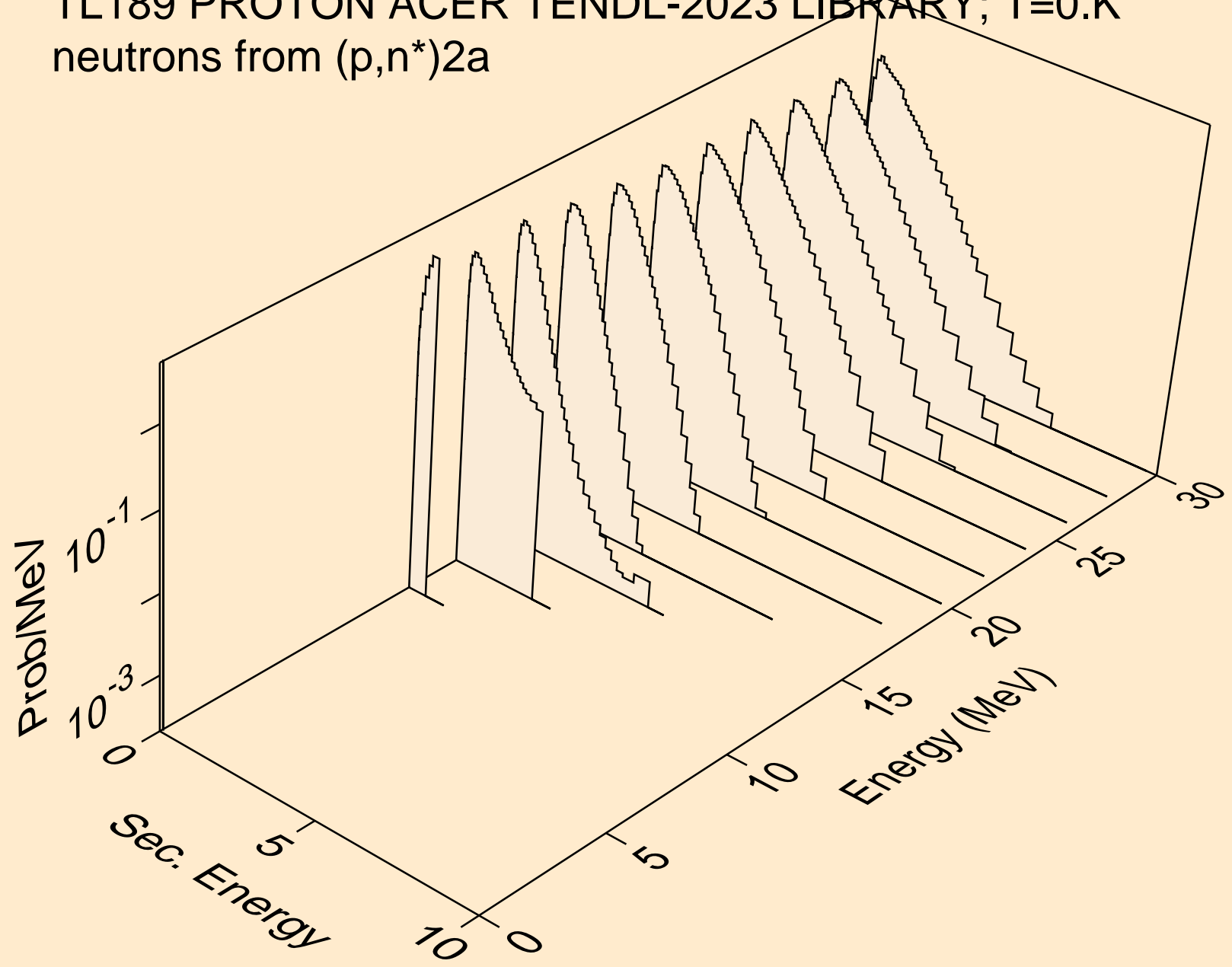
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,3n)a



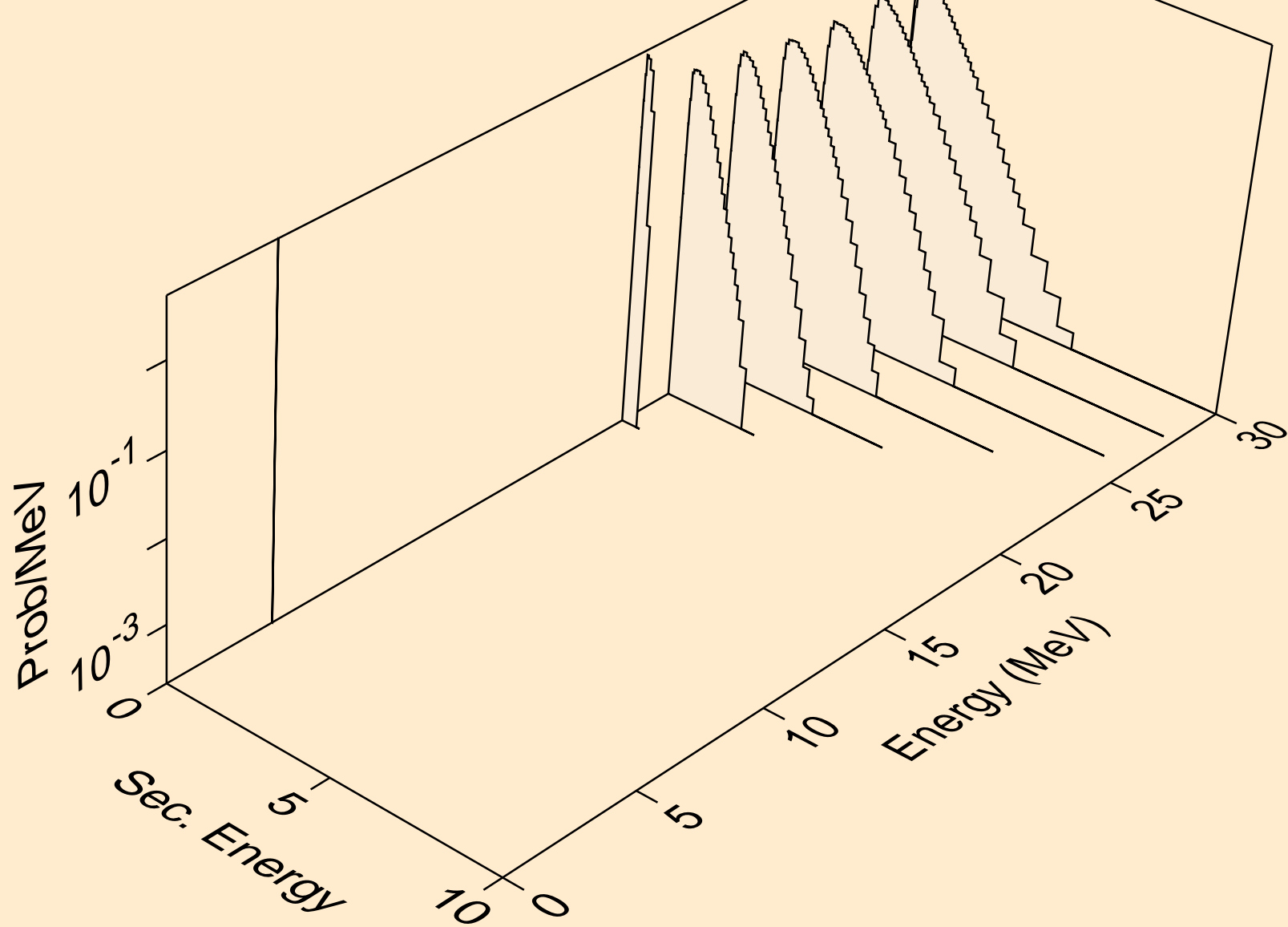
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)p



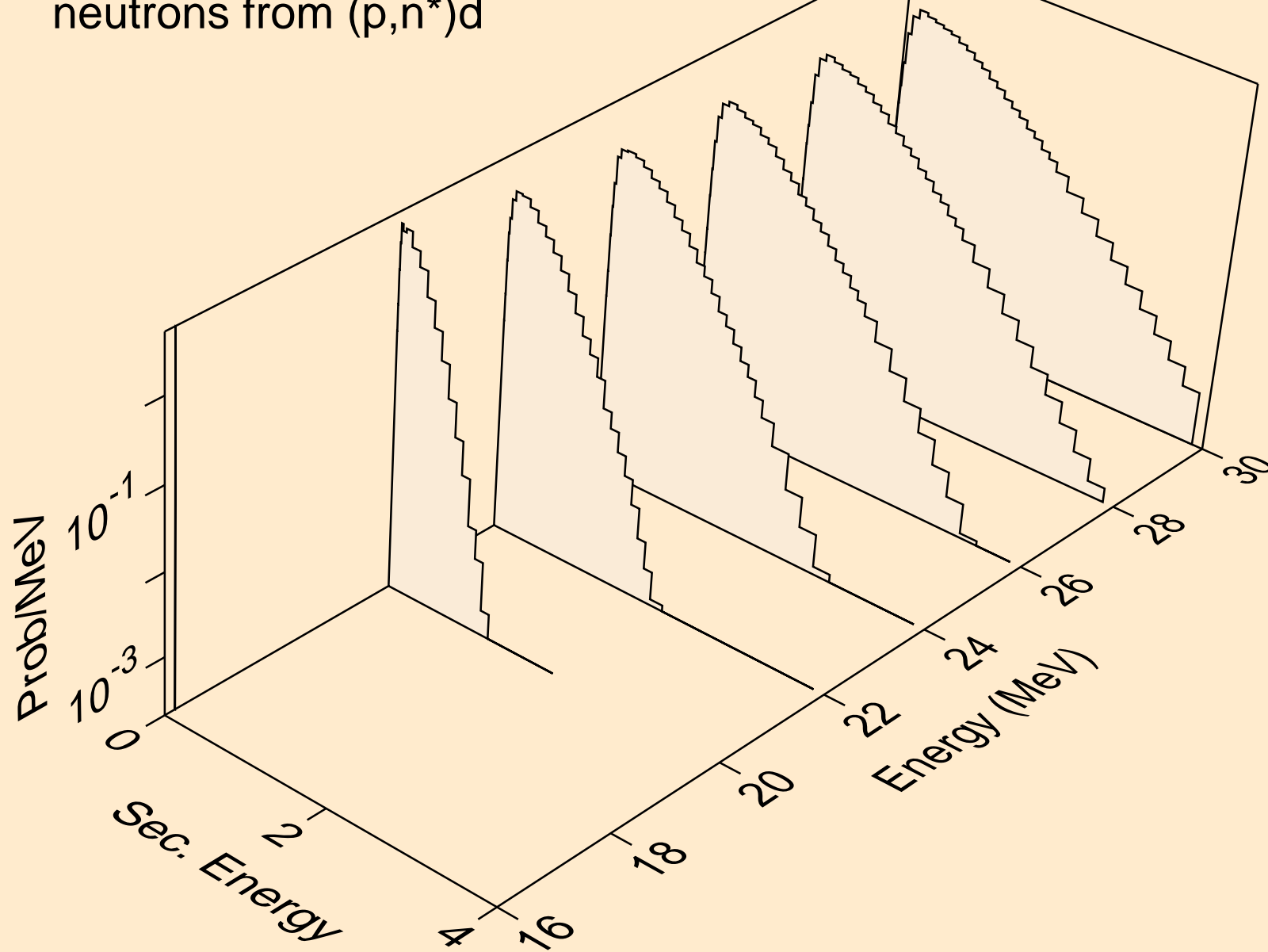
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



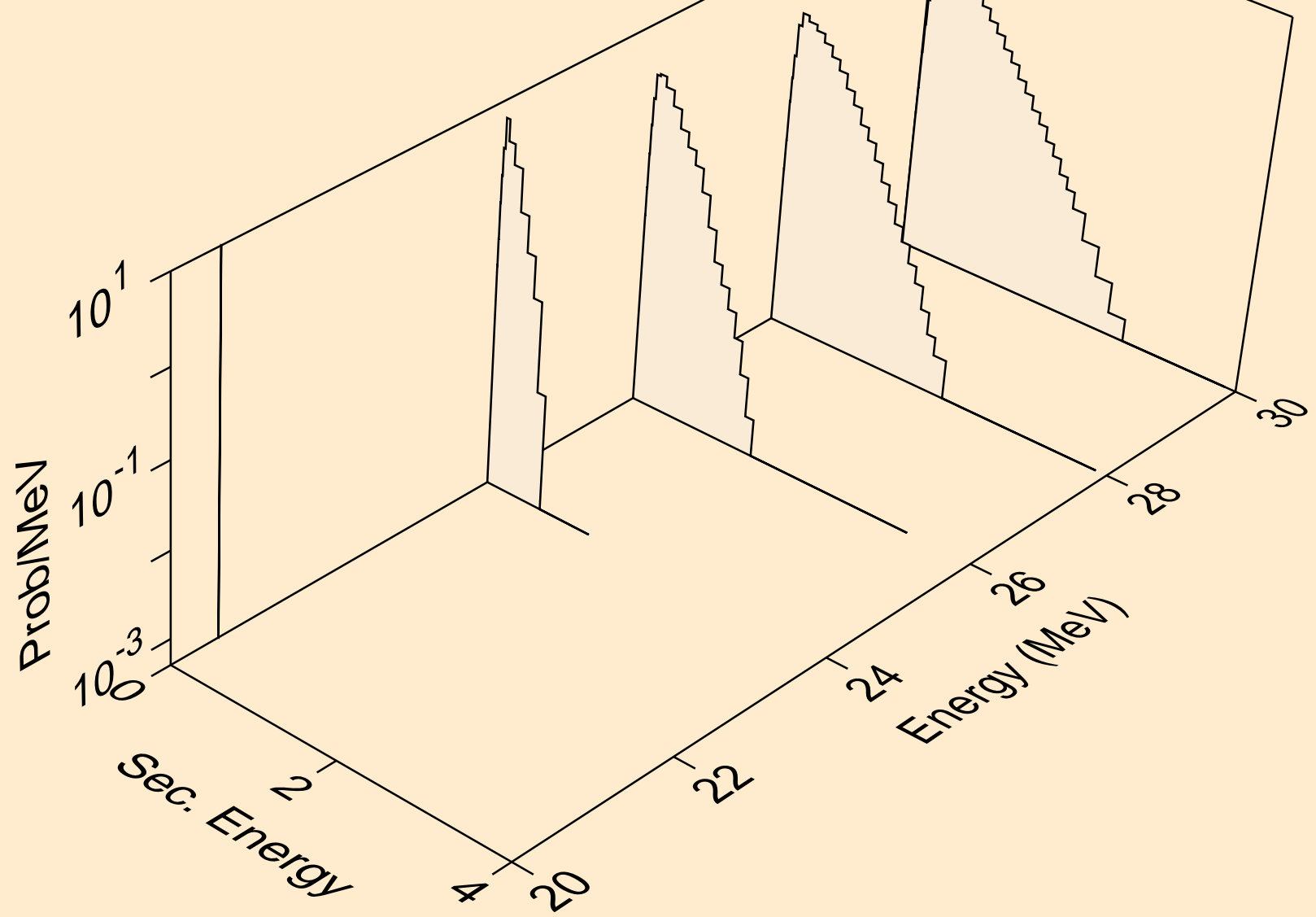
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2n)2a



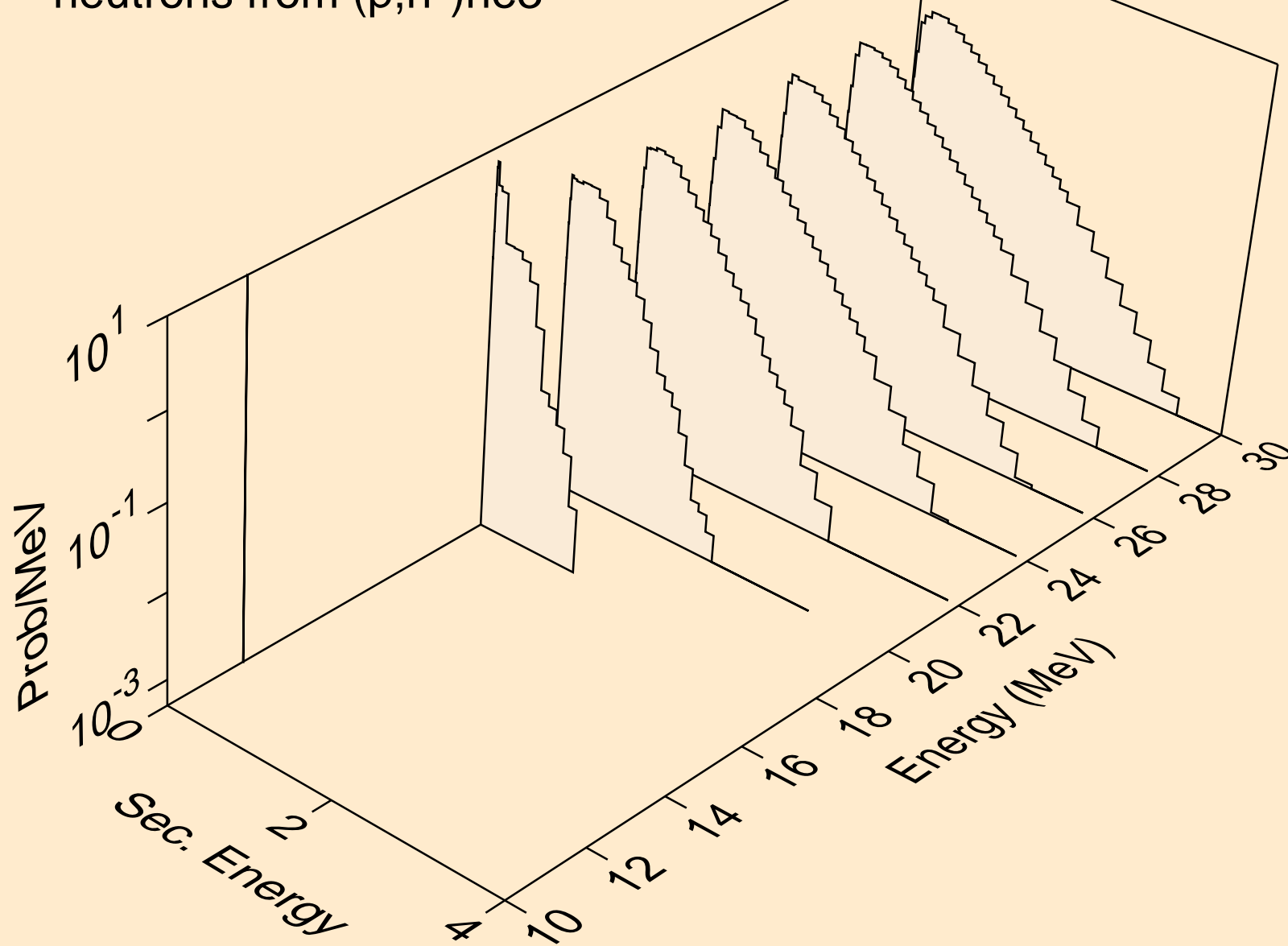
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)d



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)t

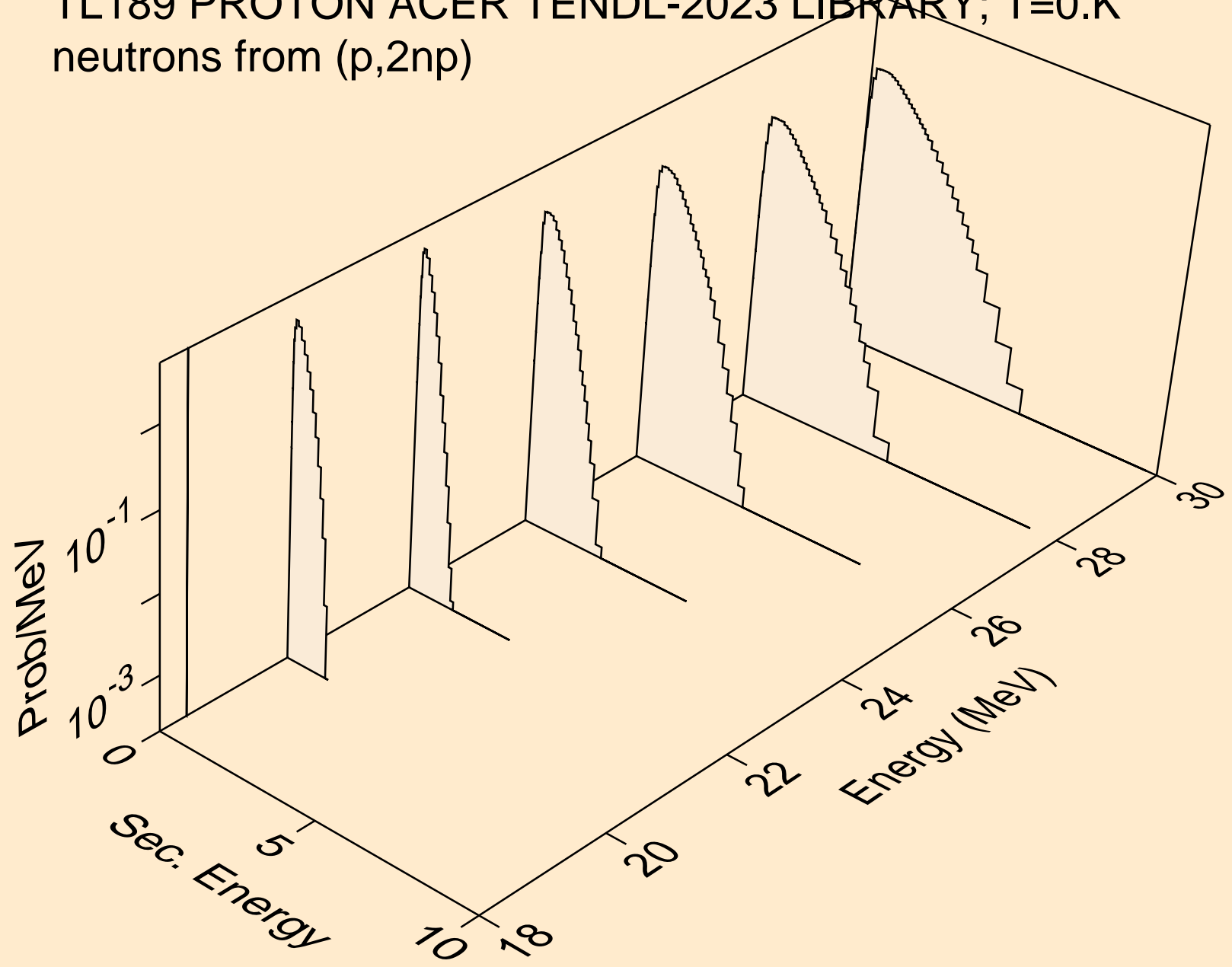


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n\*)he3

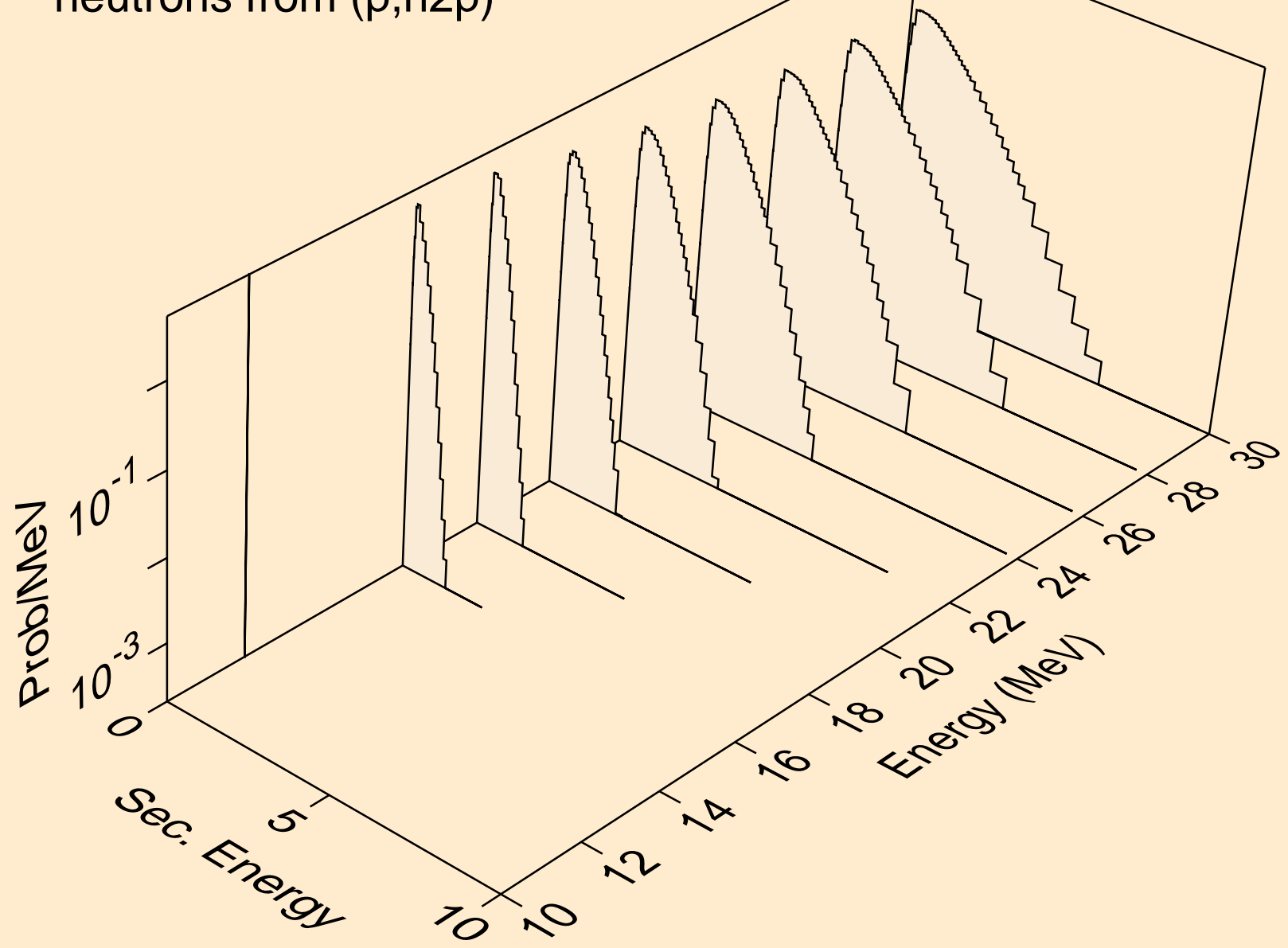




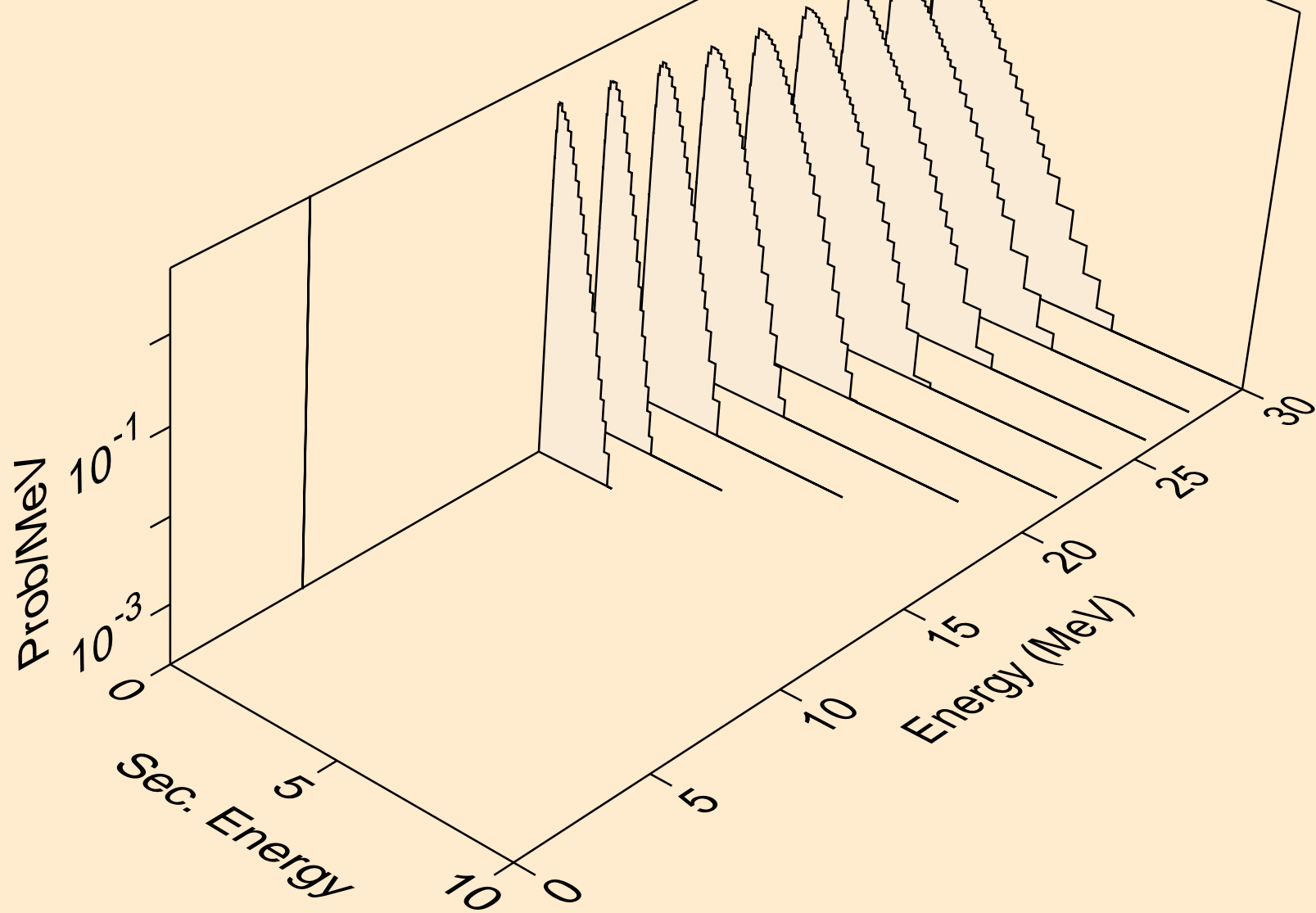
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,2np)



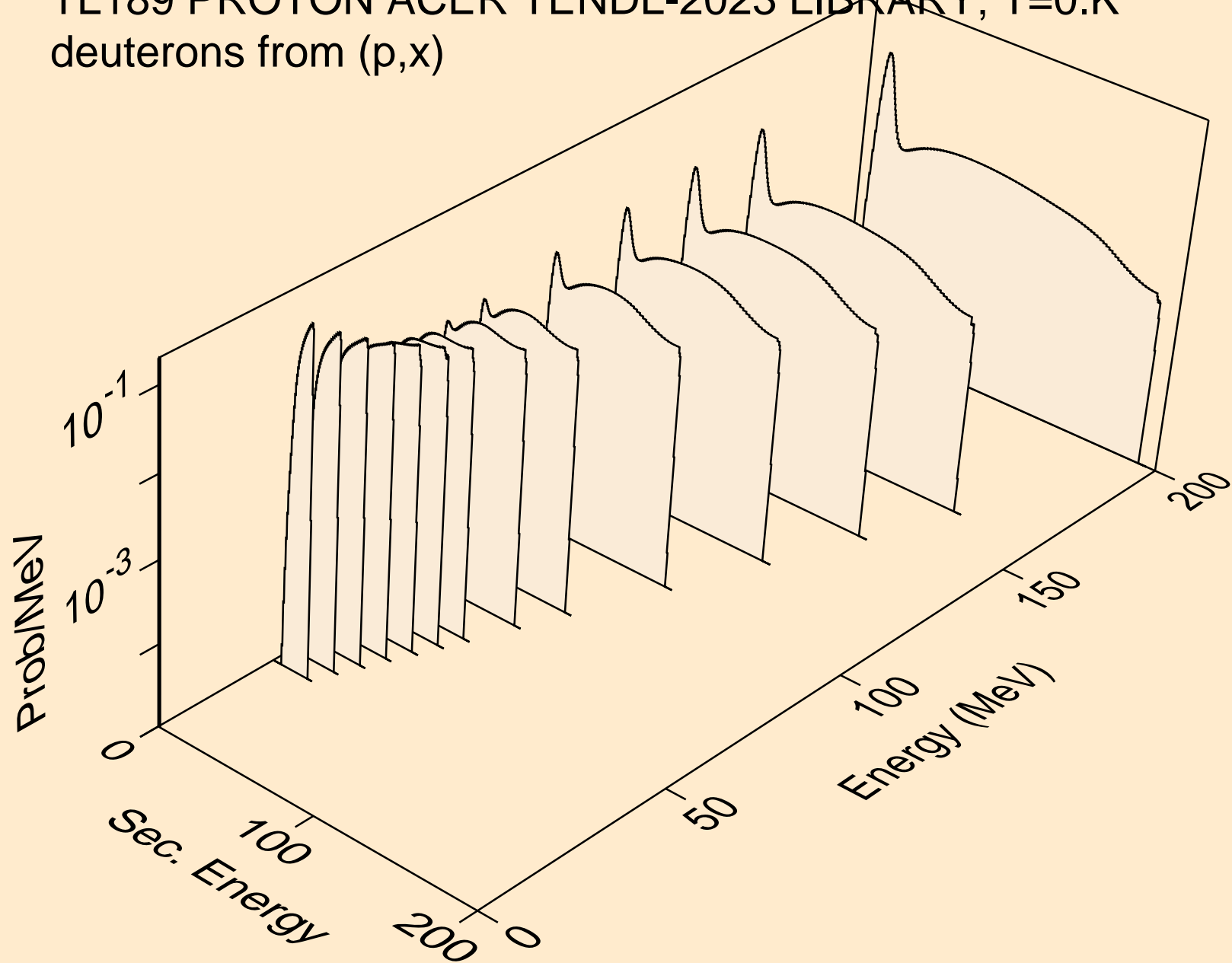
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,n2p)



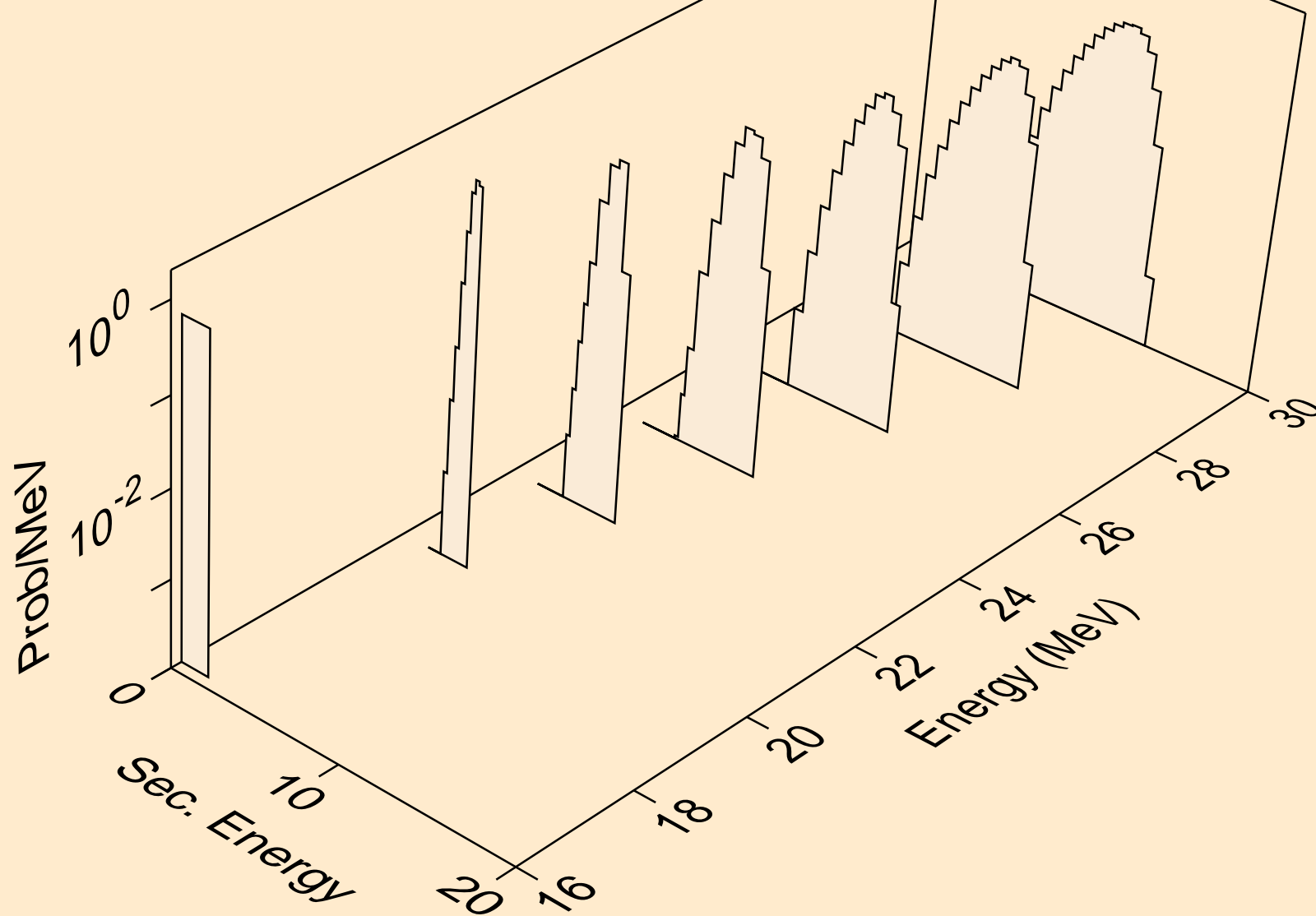
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (p,npa)



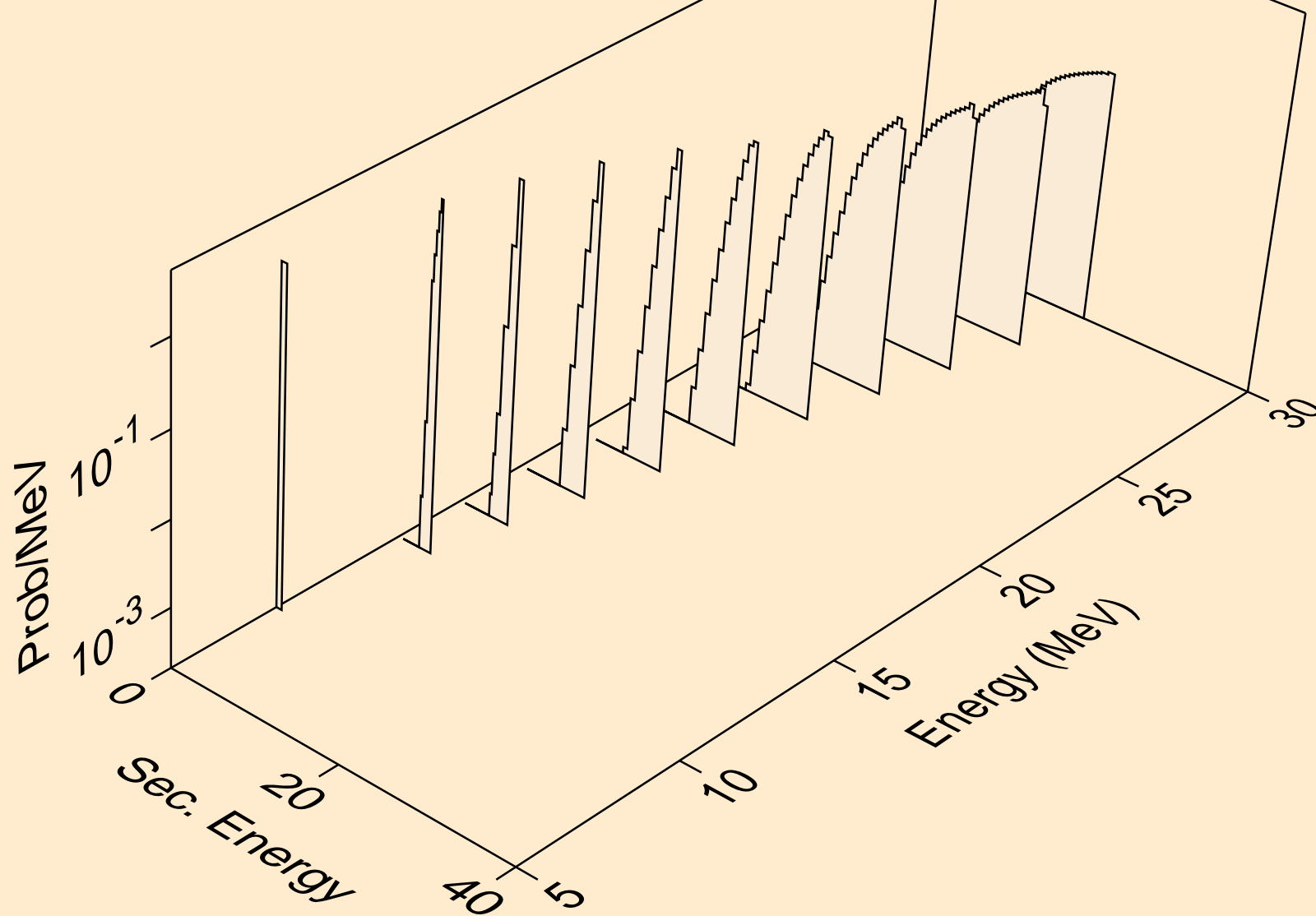
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,x)



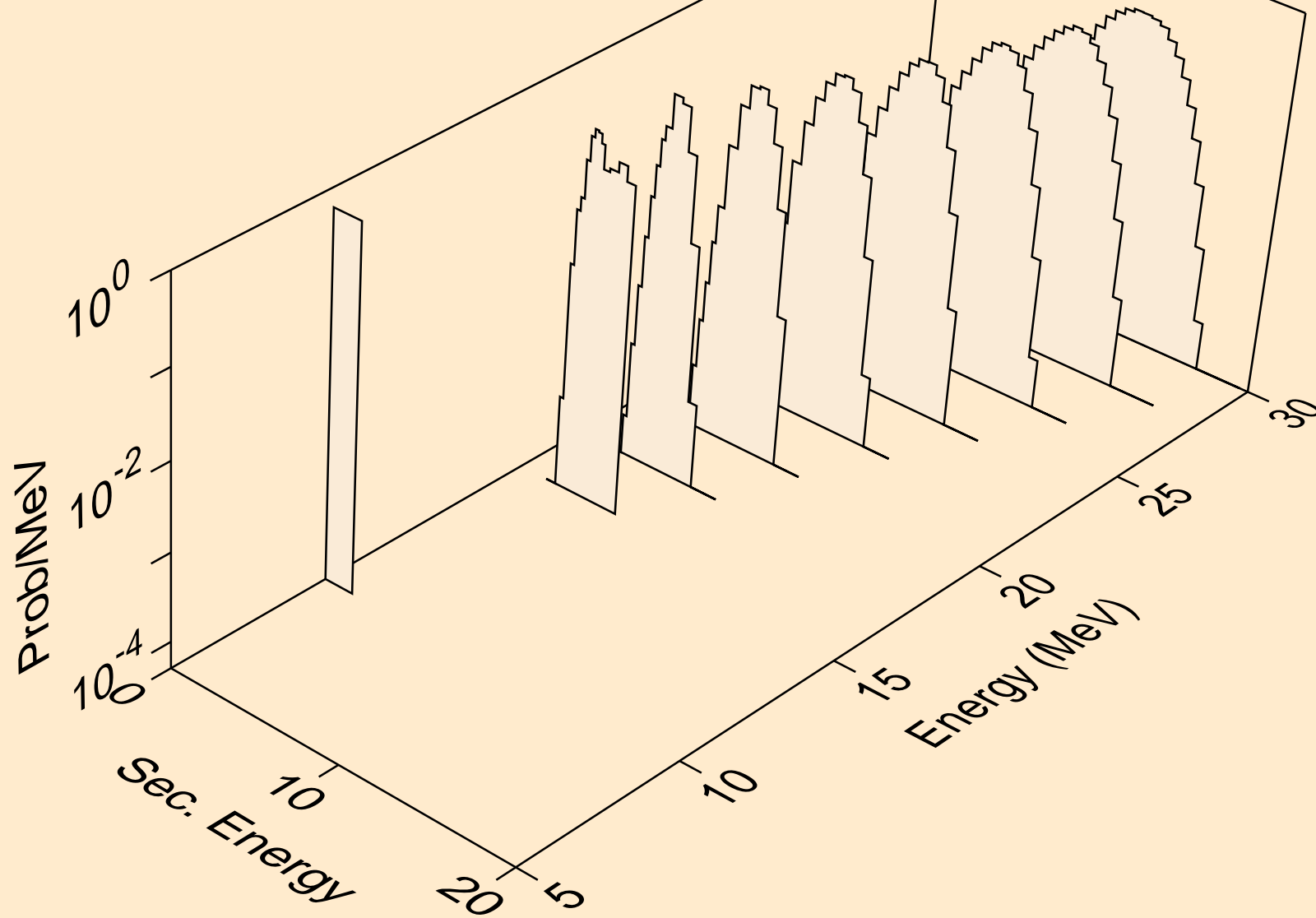
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,n\*)d



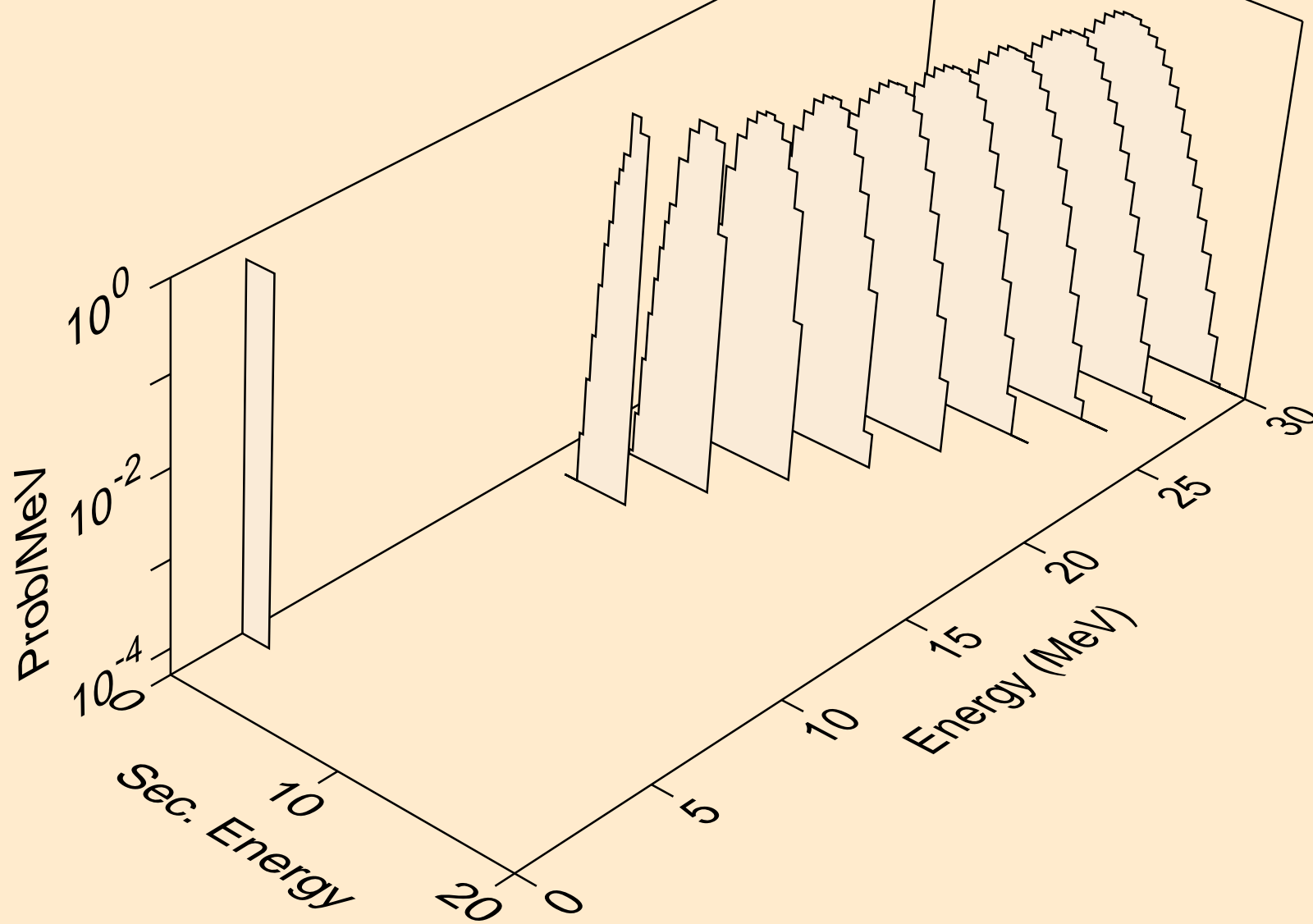
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,d)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,pd)

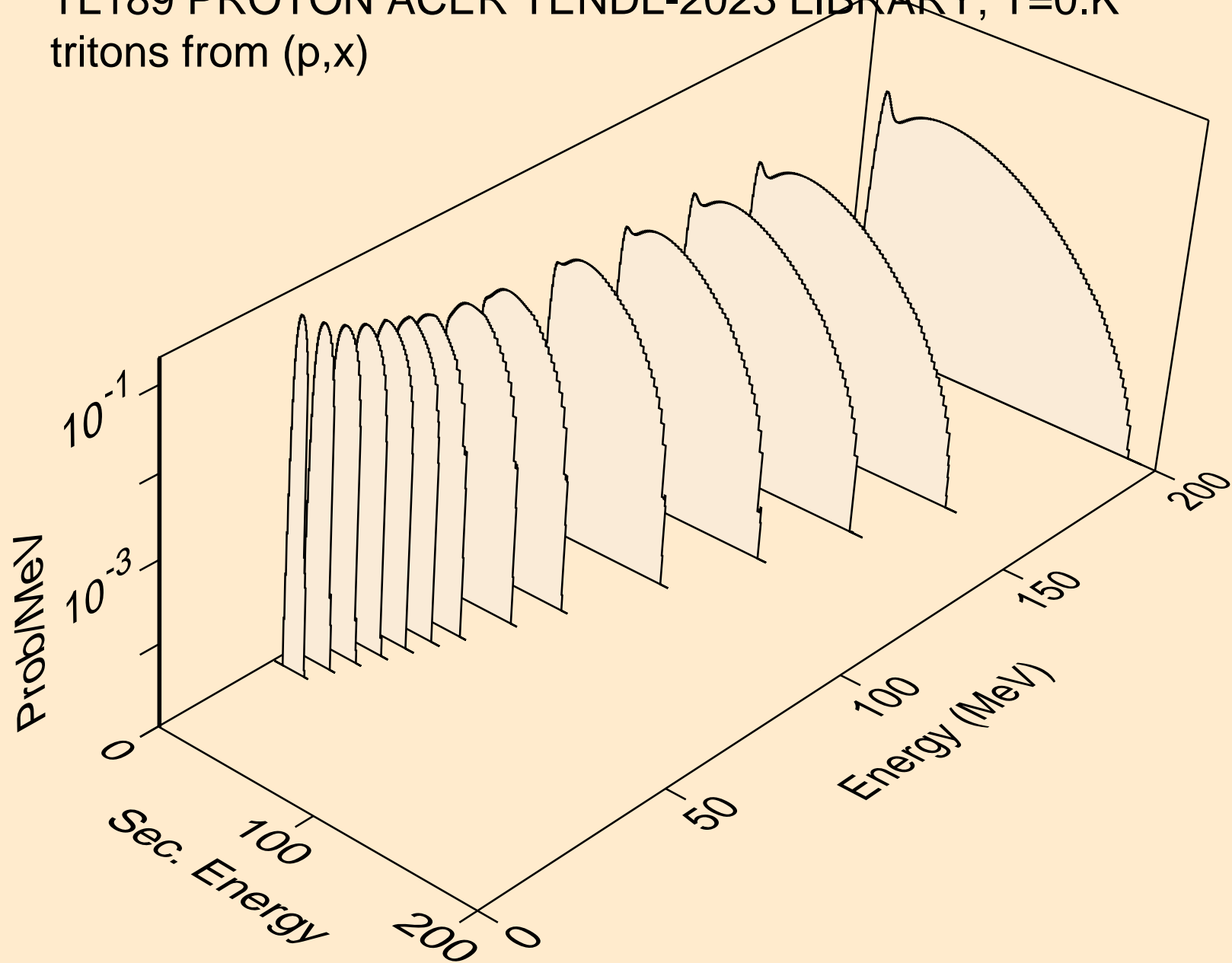


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (p,da)

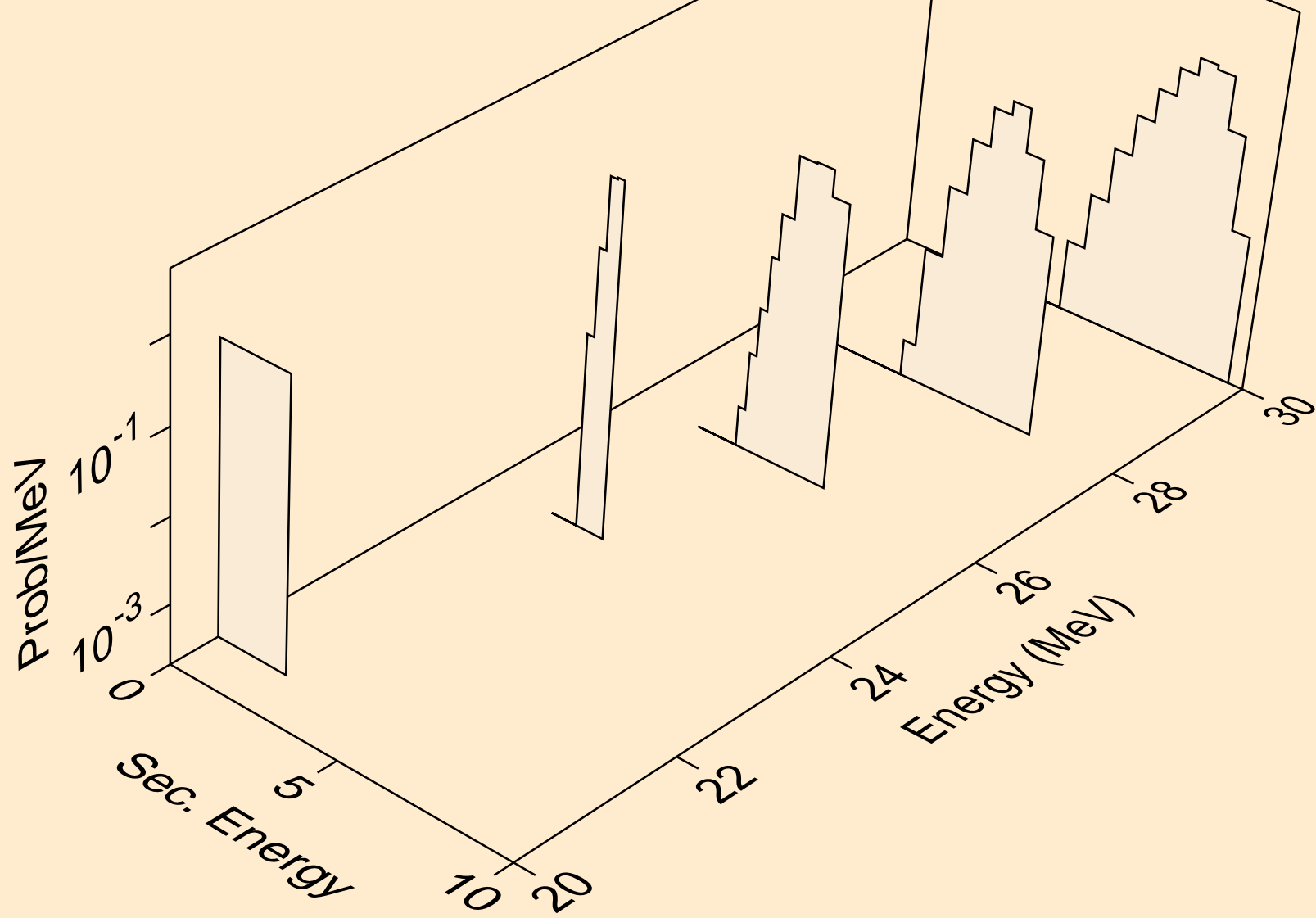




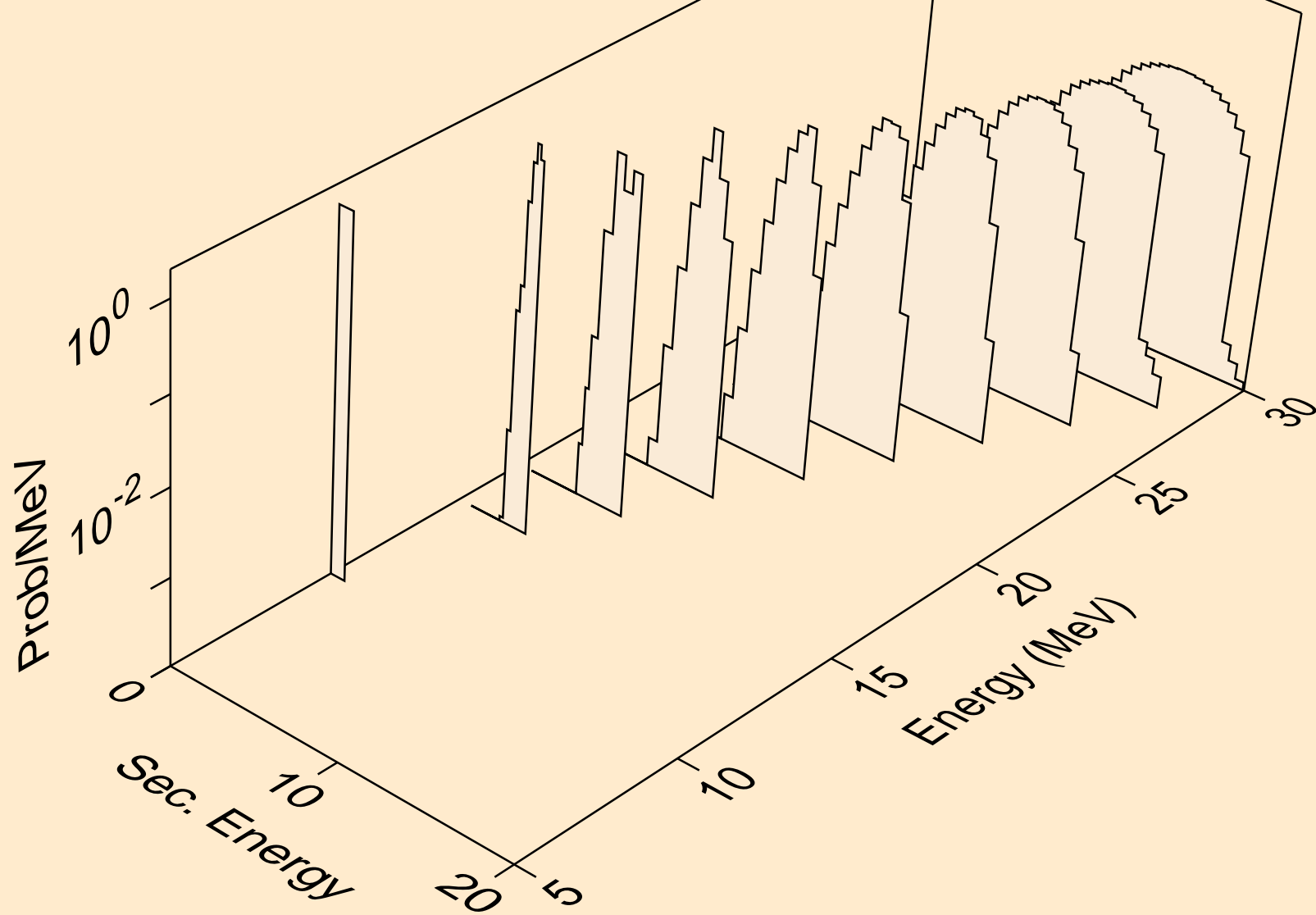
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,x)



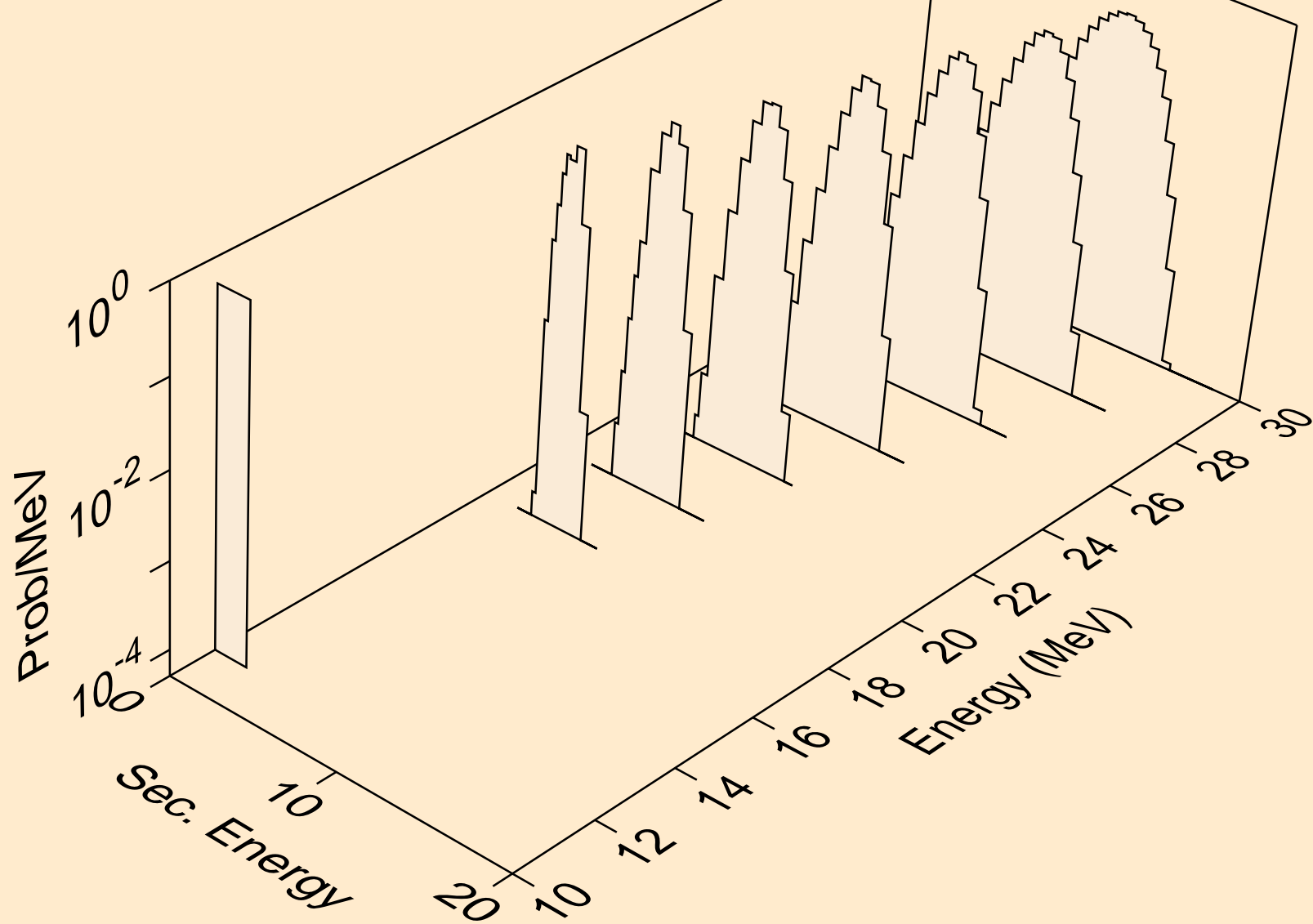
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,n\*)t



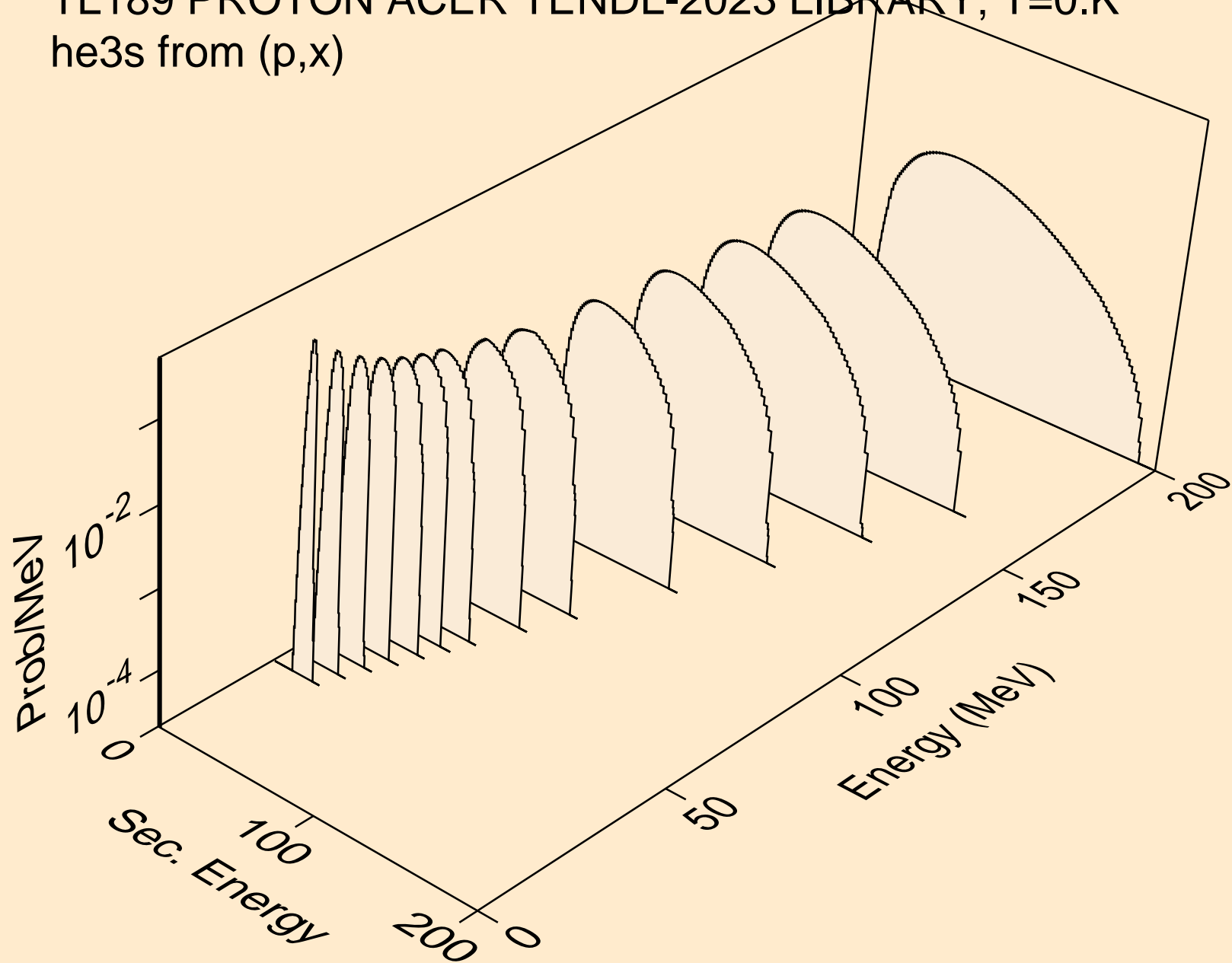
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,t)



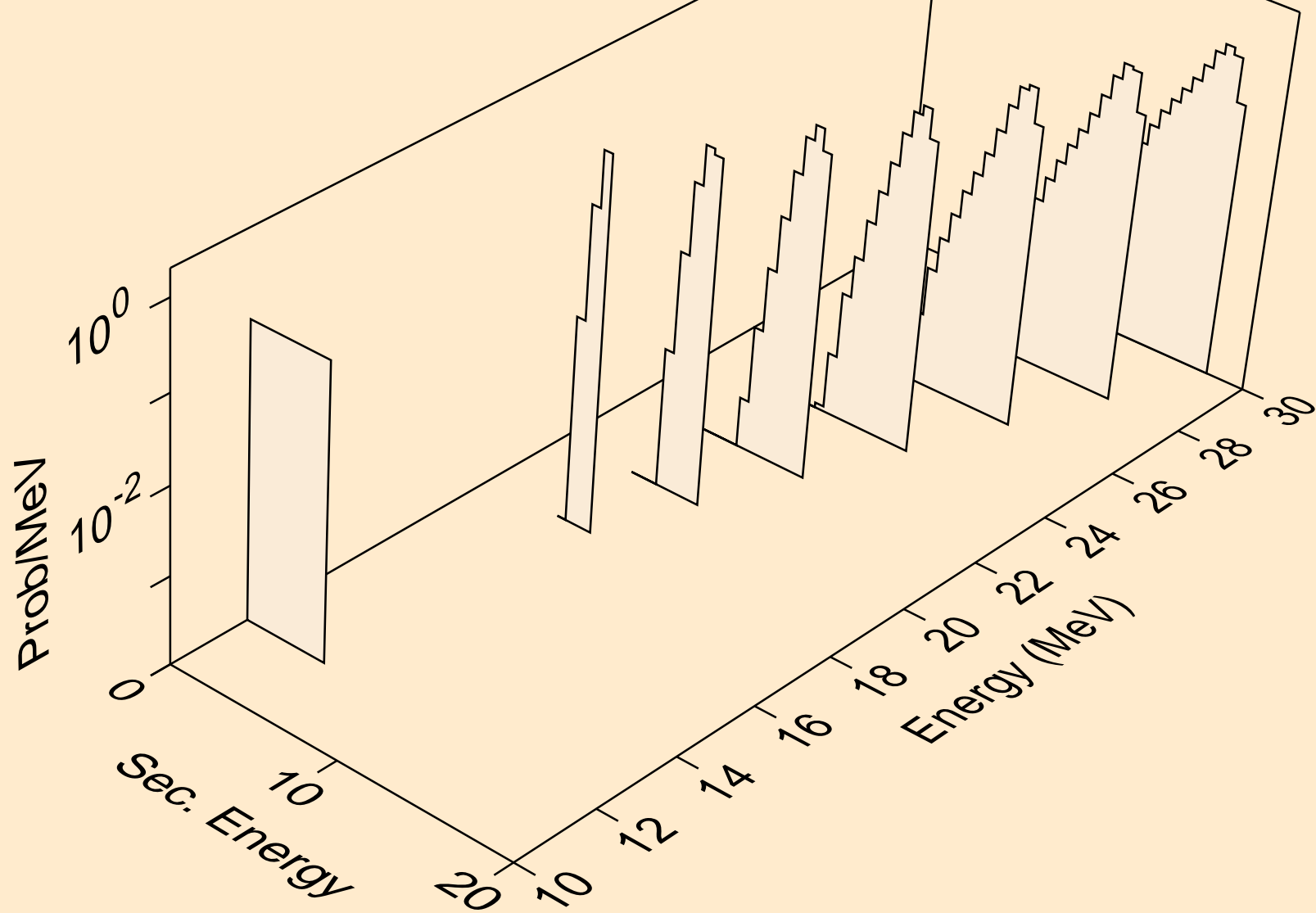
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (p,pt)



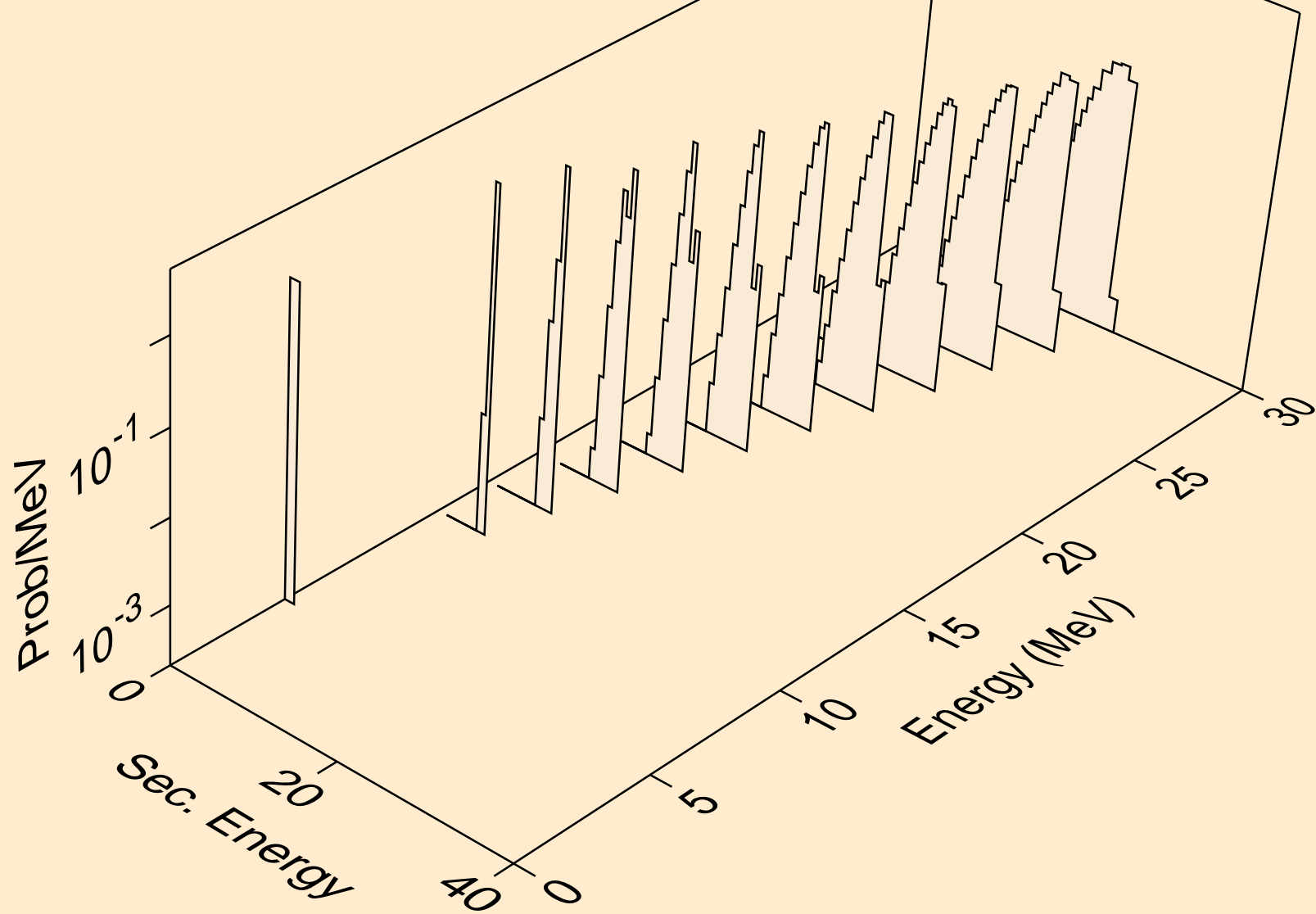
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,x)



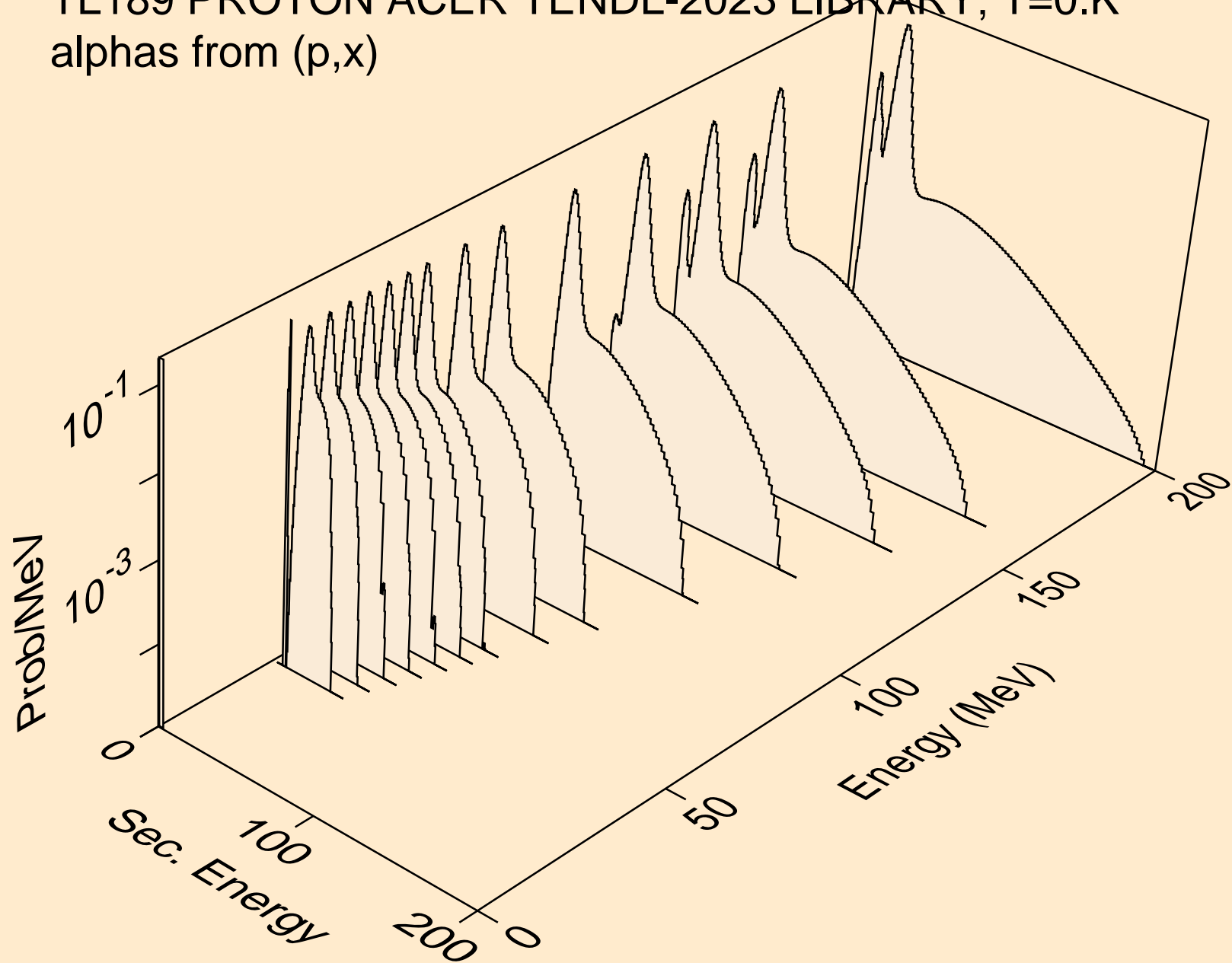
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,n\*)he3



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (p,he3)

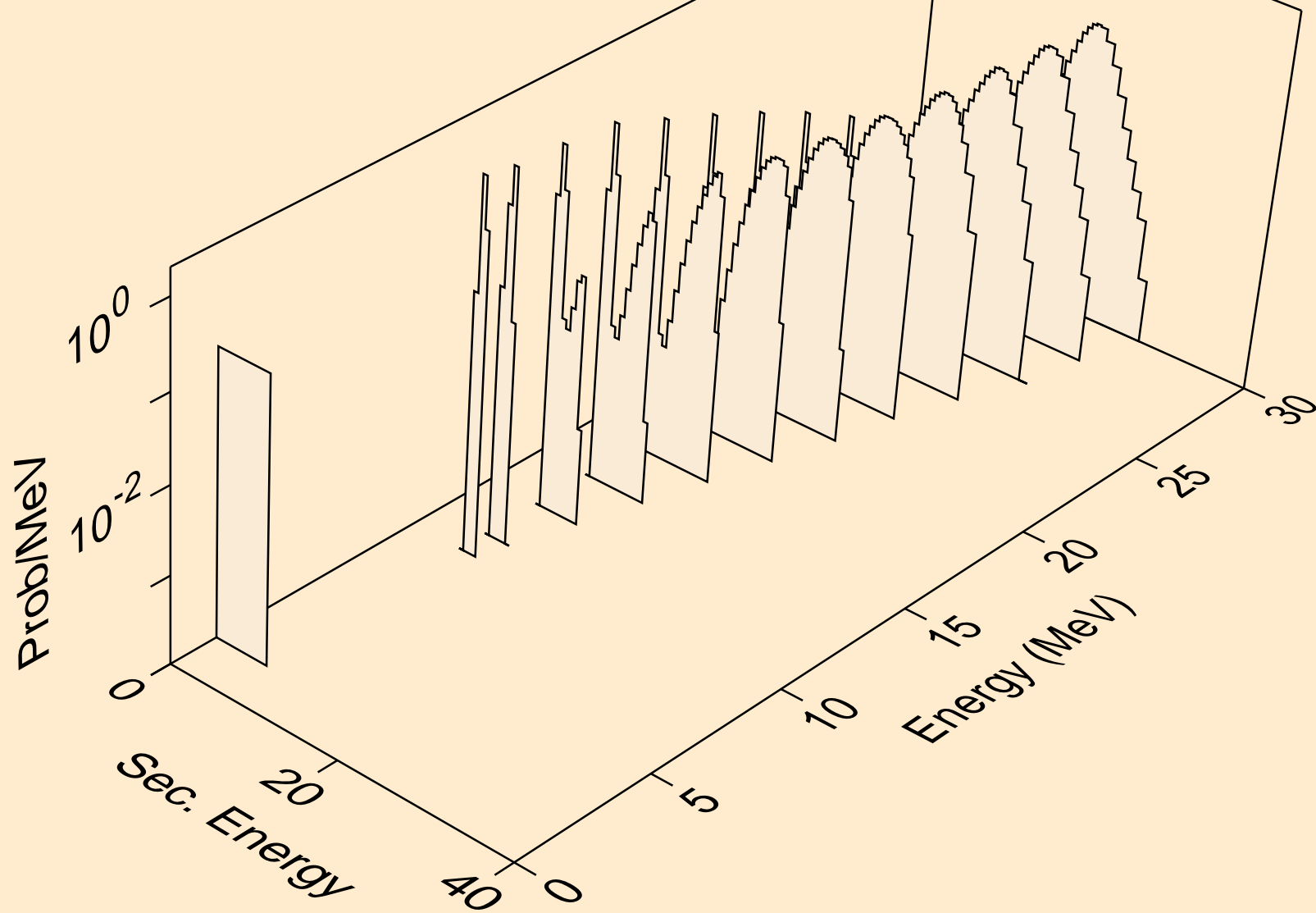


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,x)

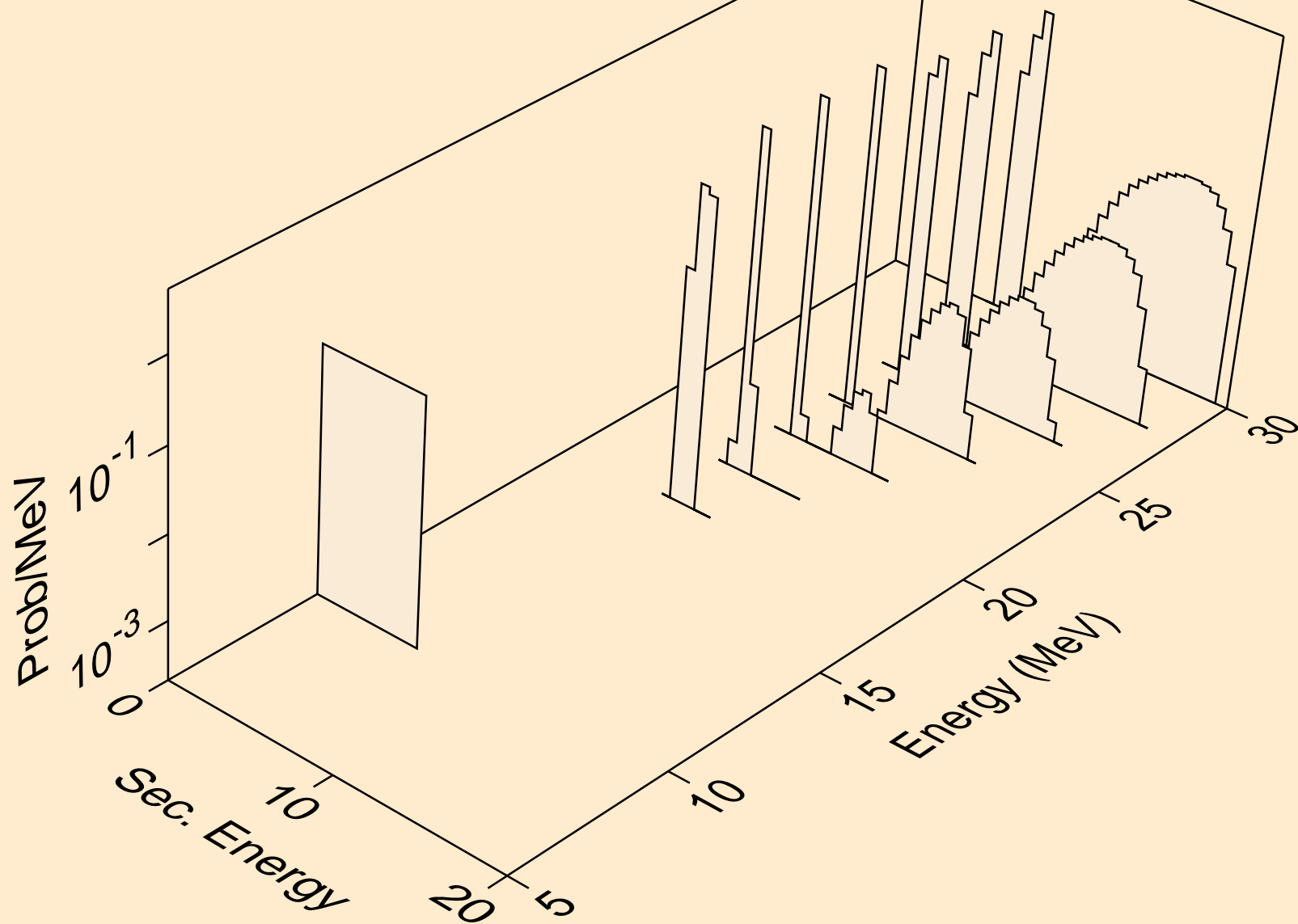




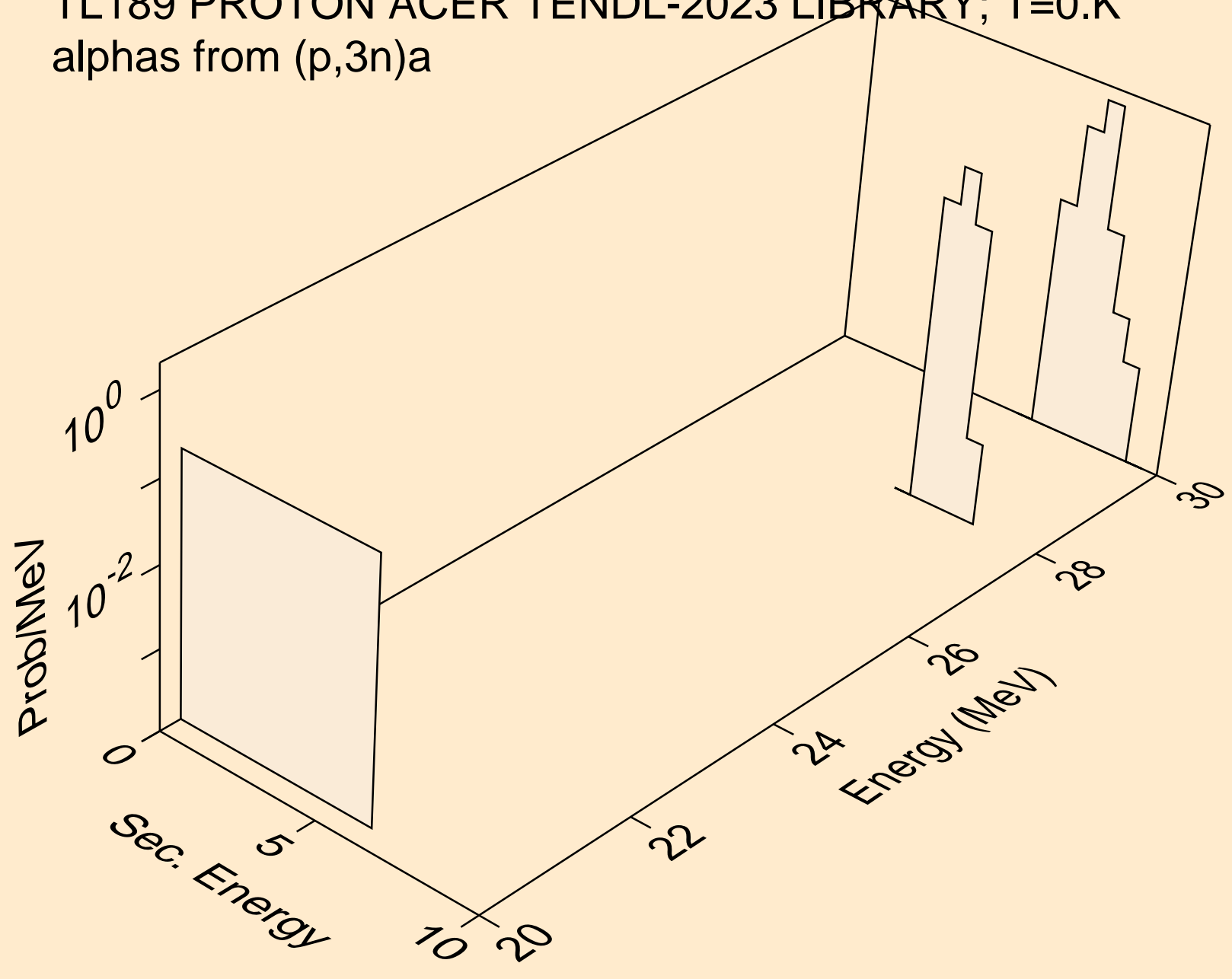
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)a



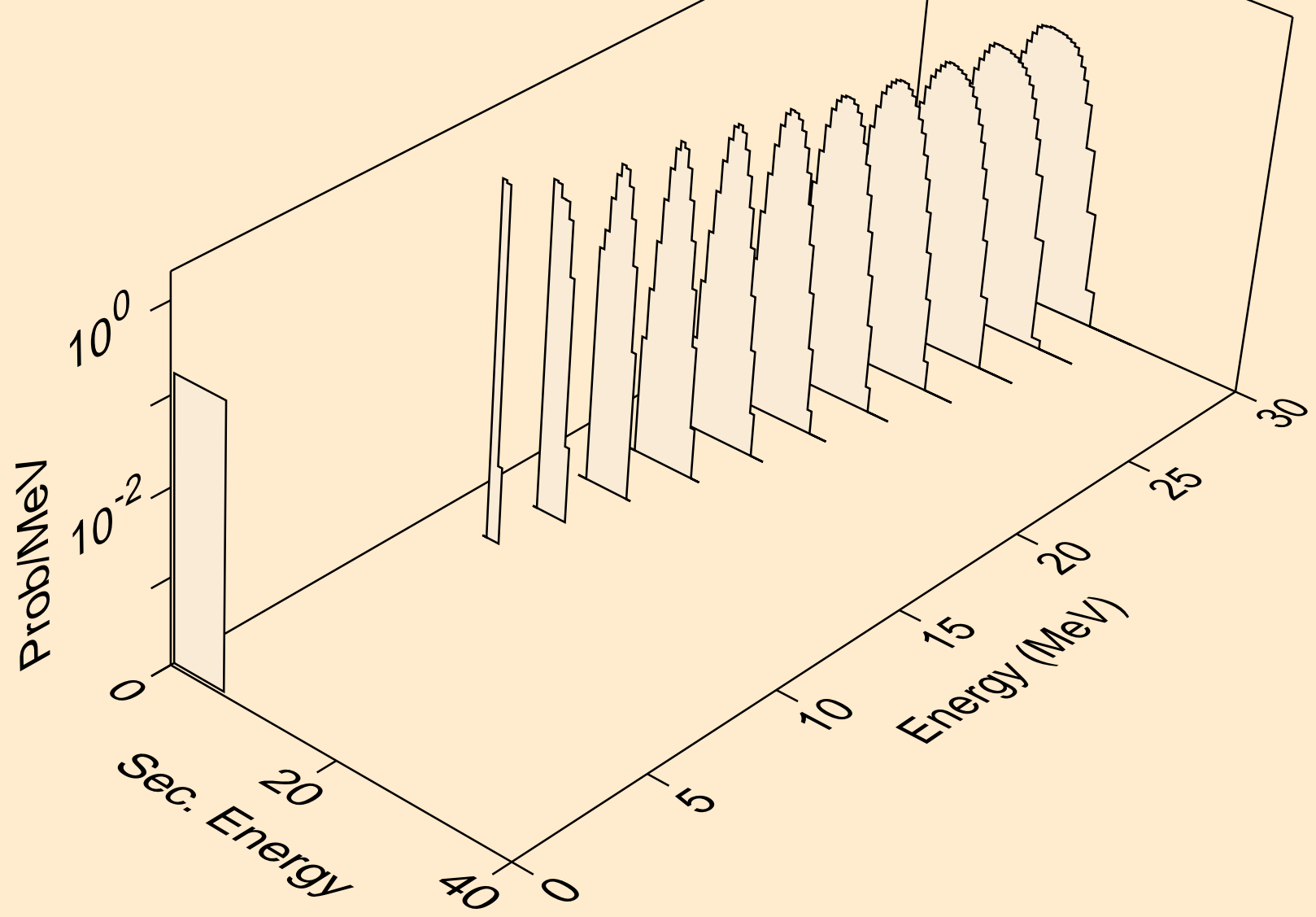
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)a



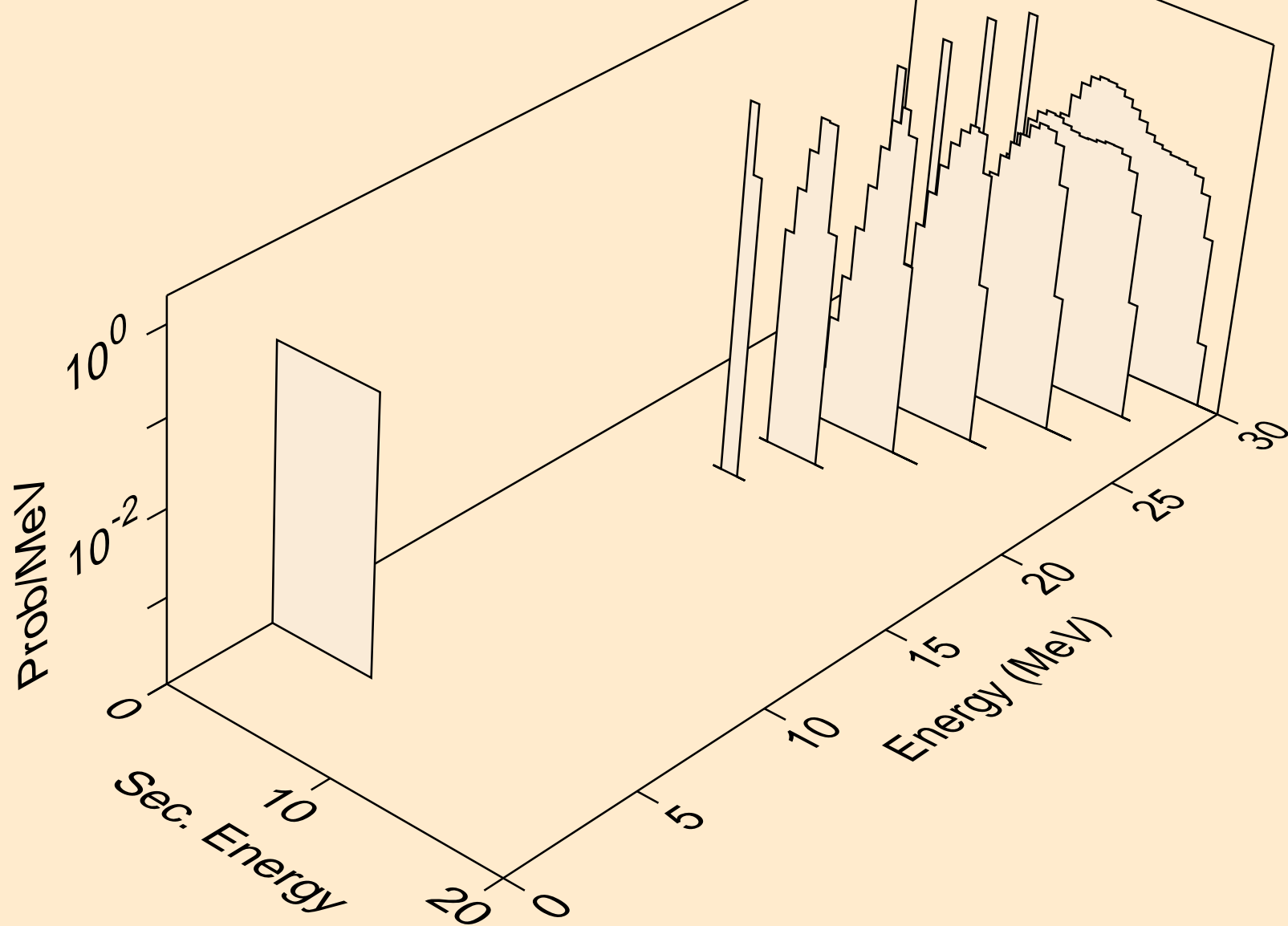
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3n)a



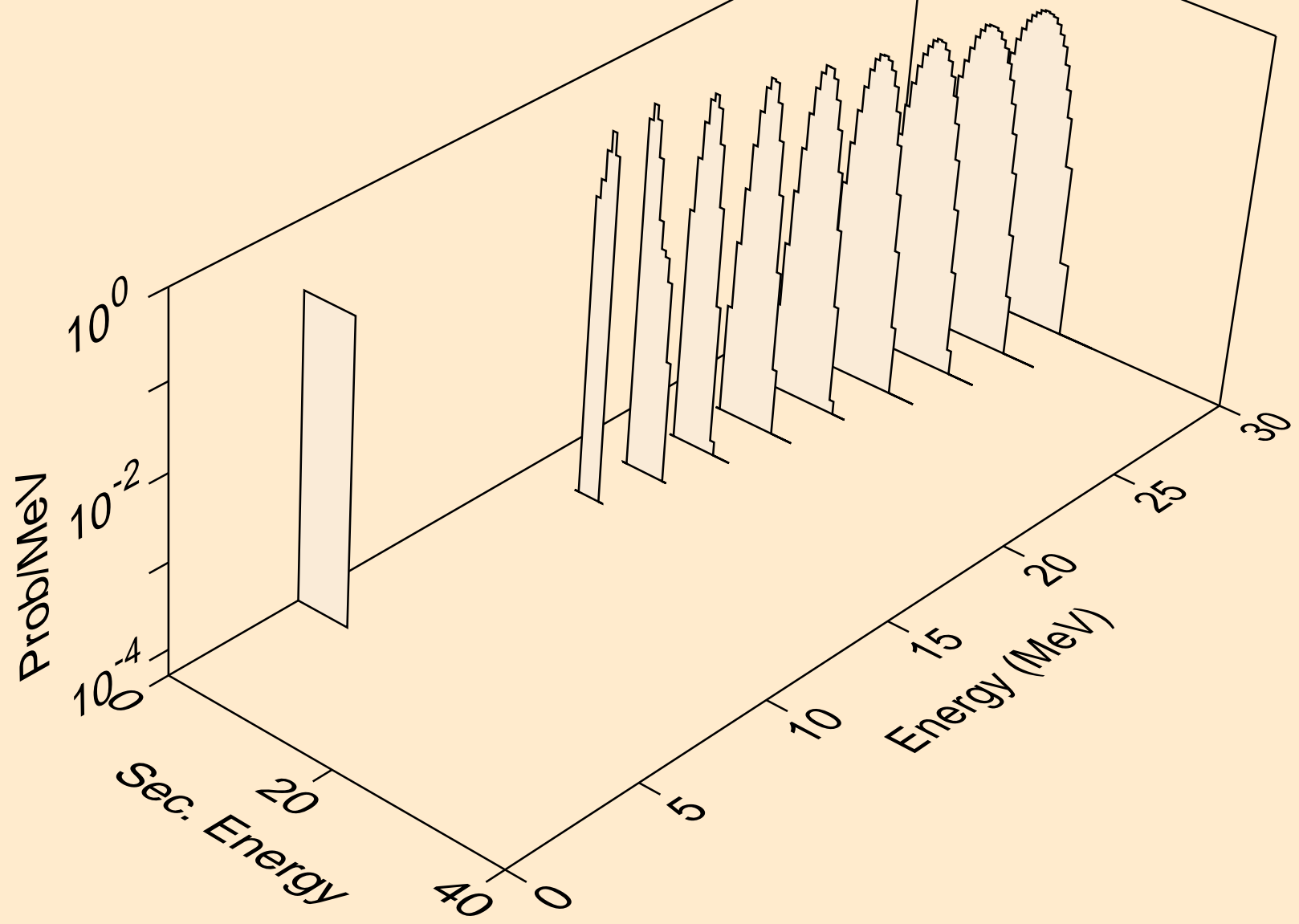
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,n\*)2a



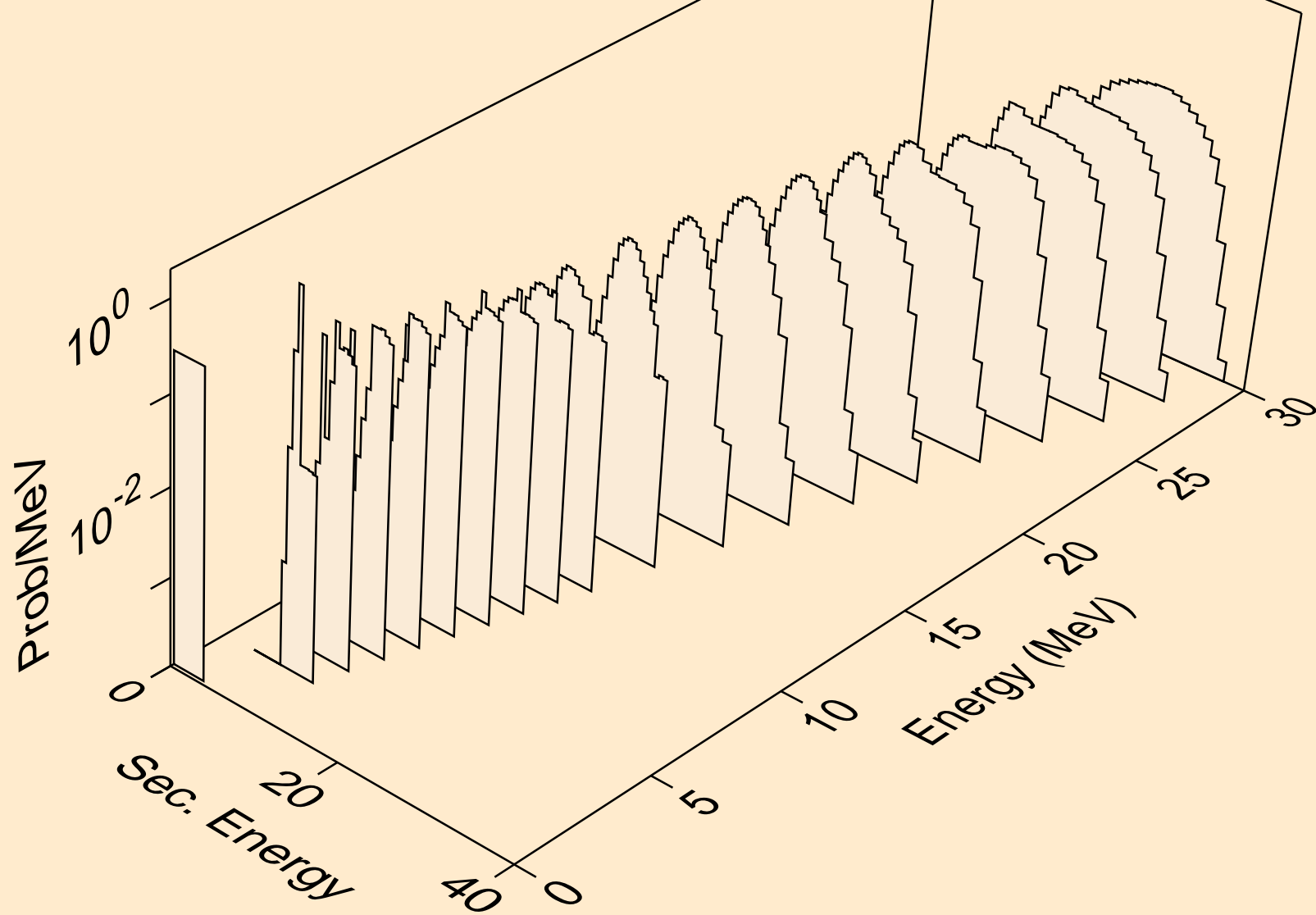
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2n)2a



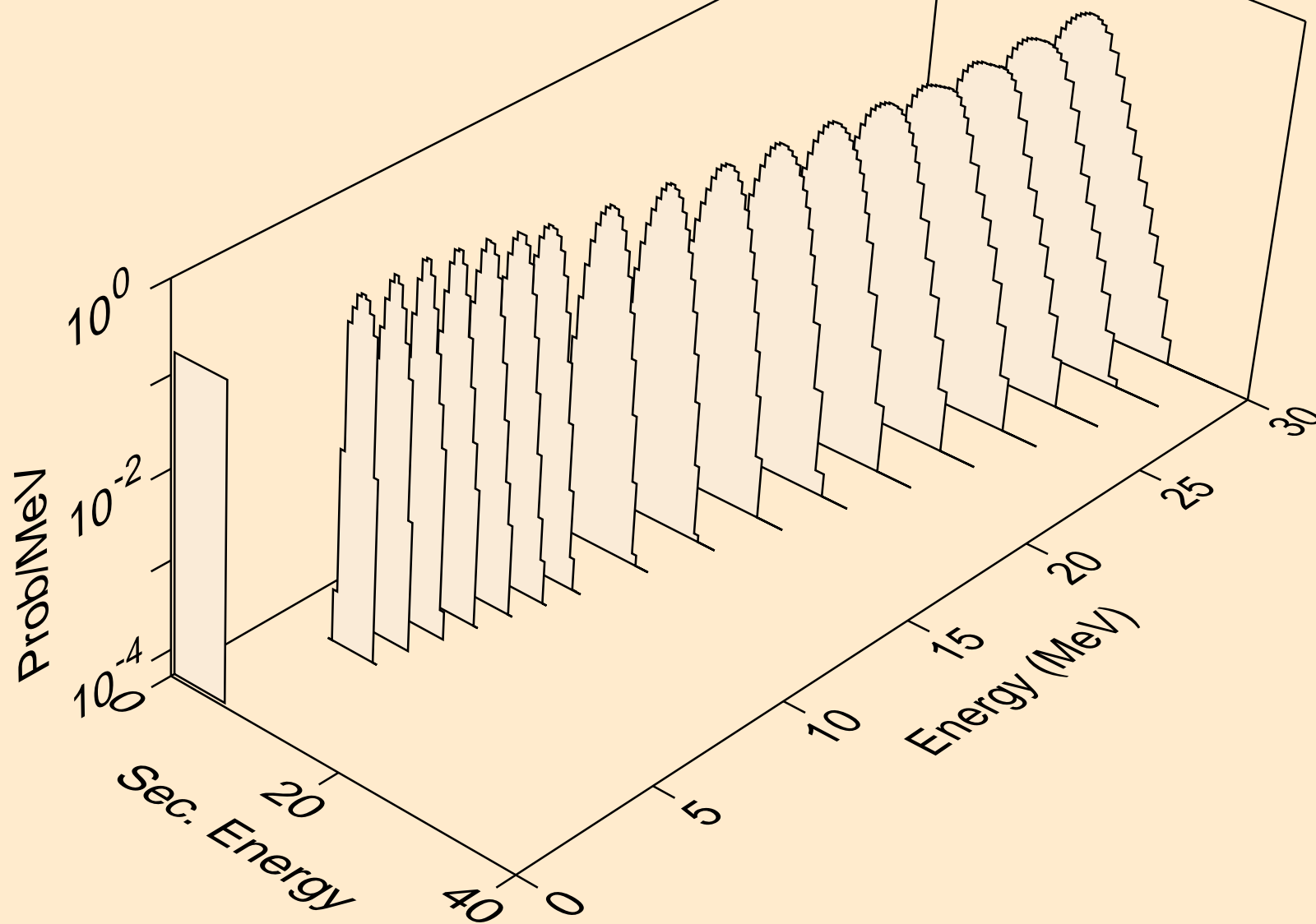
TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,npa)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,a)

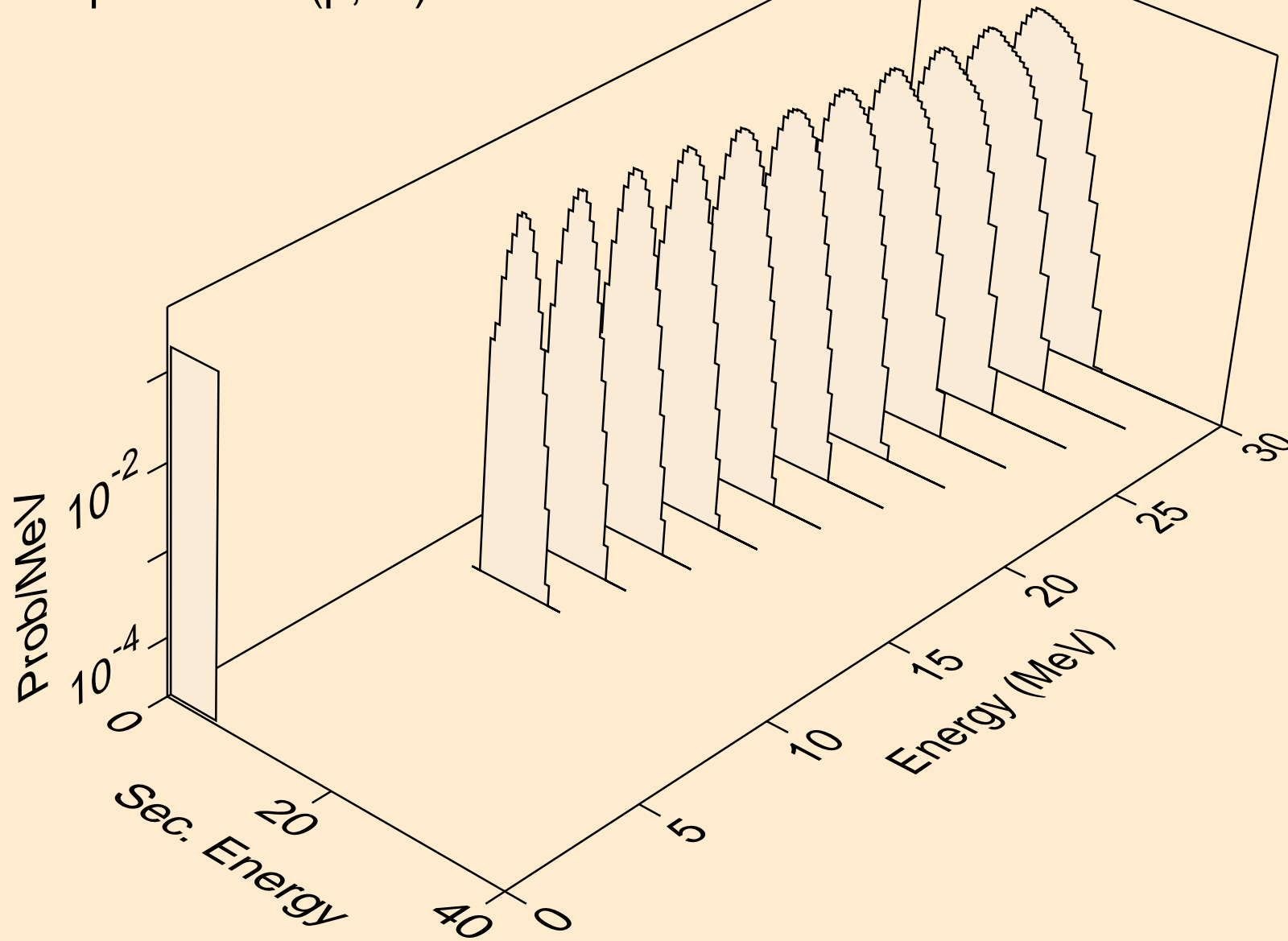


TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,2a)

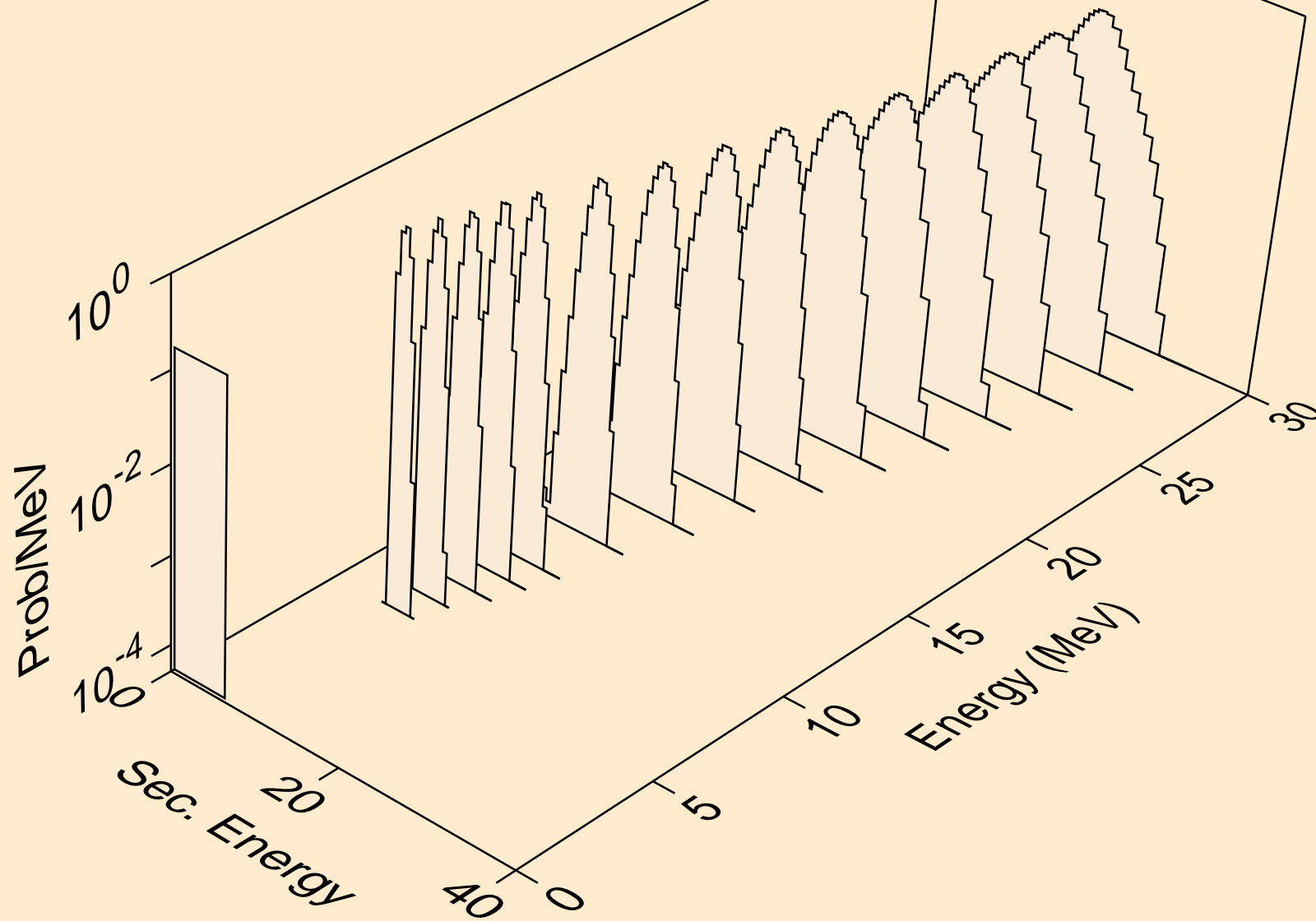




TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,3a)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,pa)



TL189 PROTON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (p,da)

