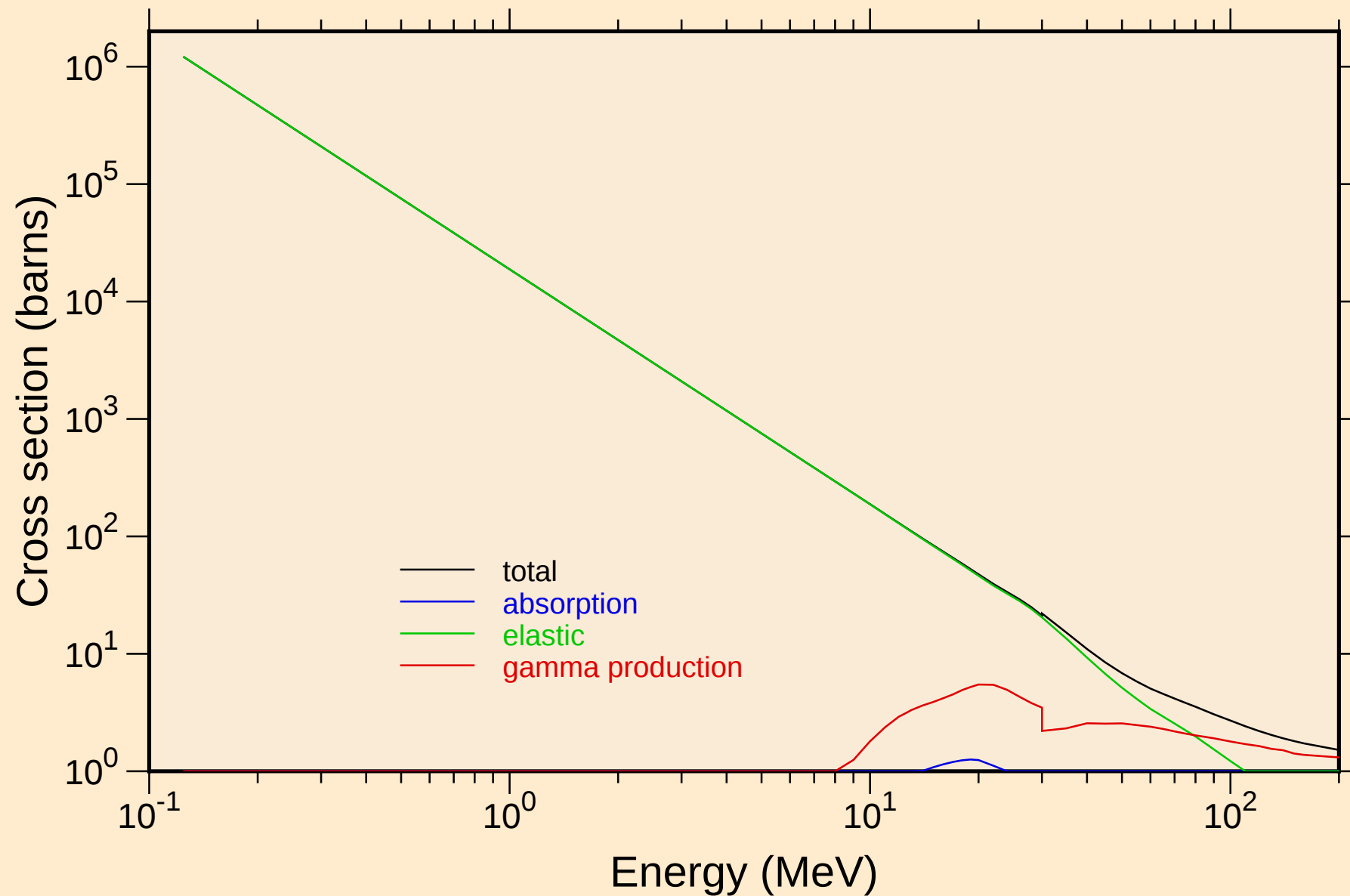


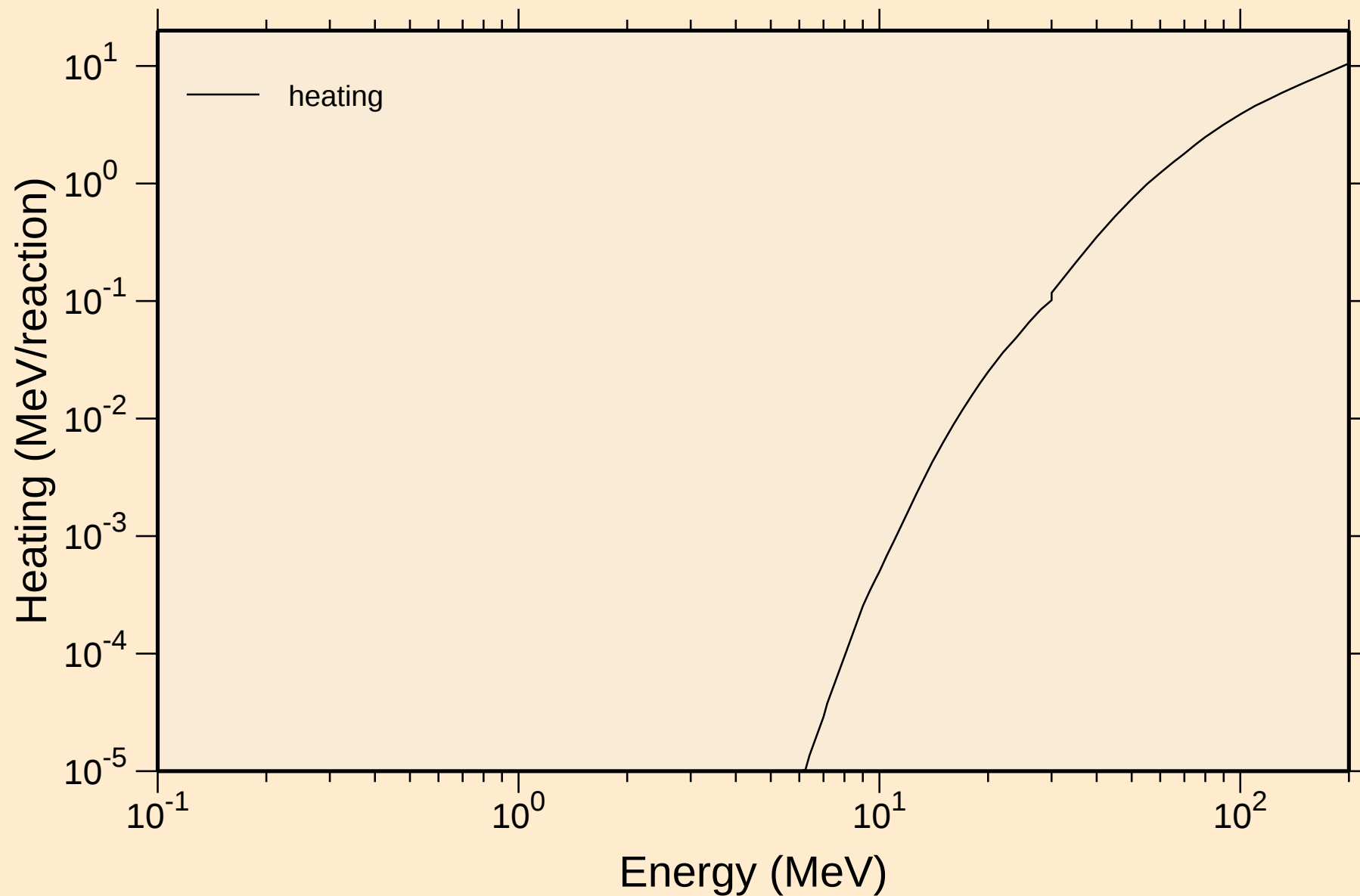
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



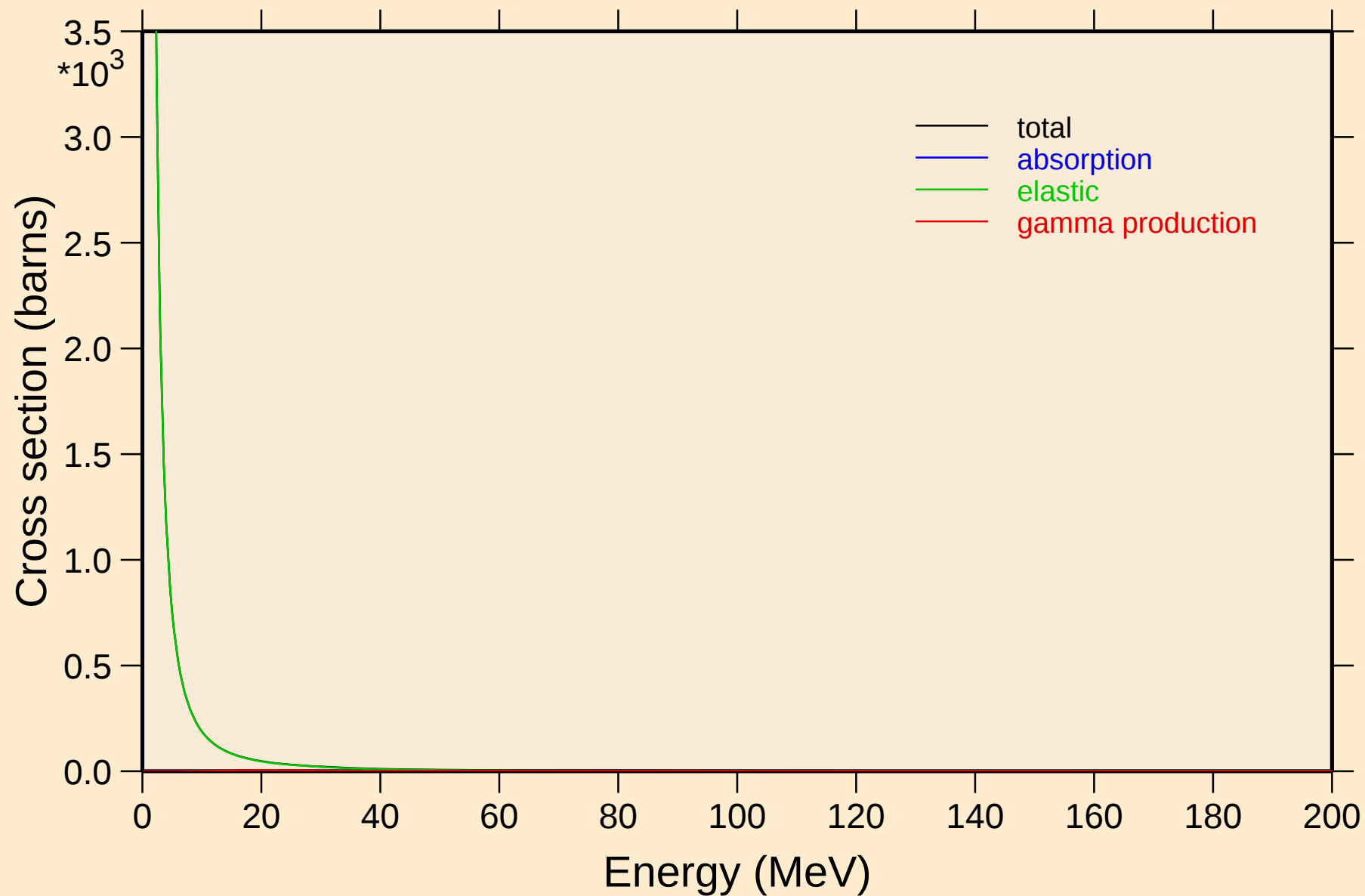
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Heating



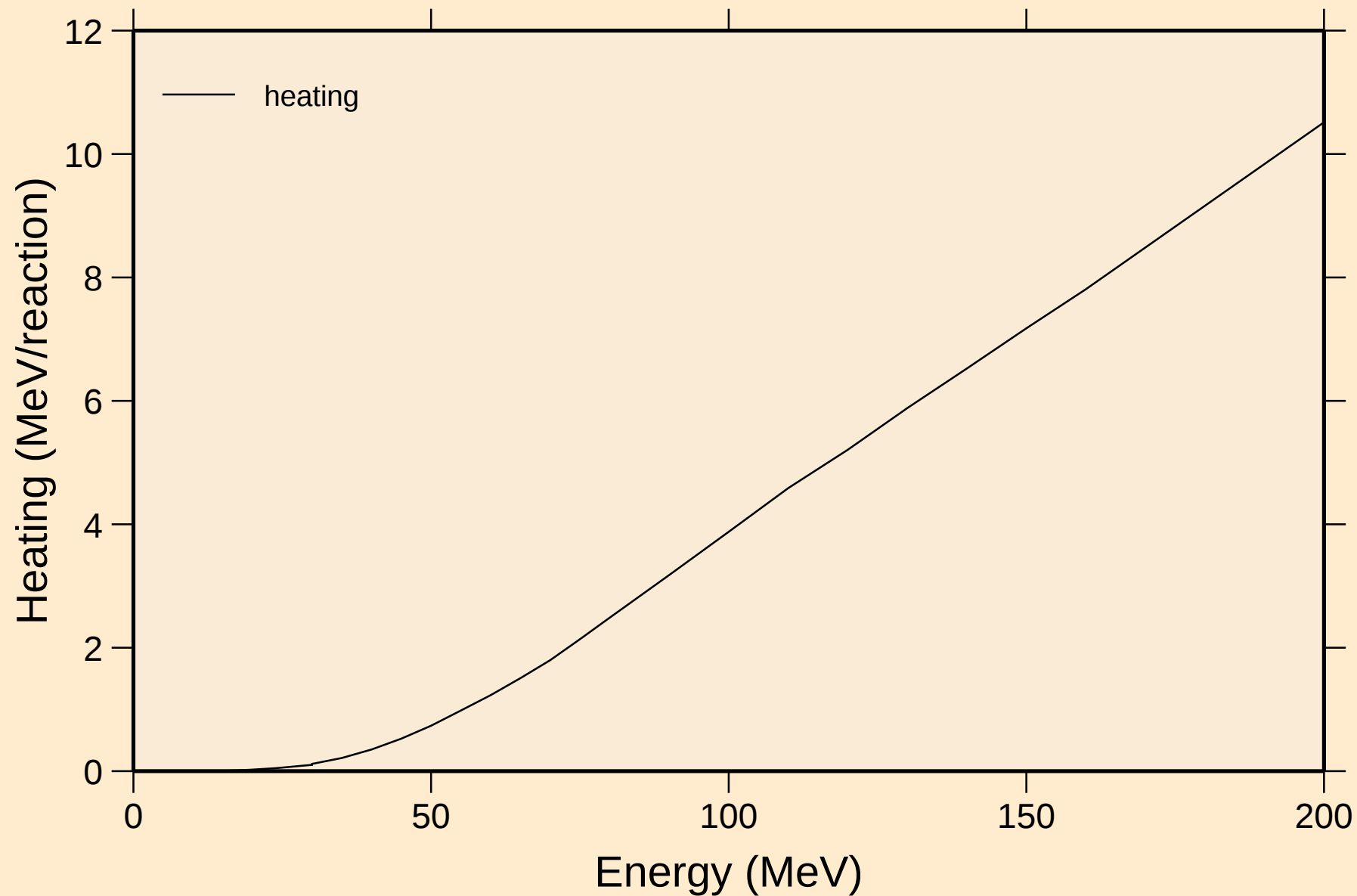
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections



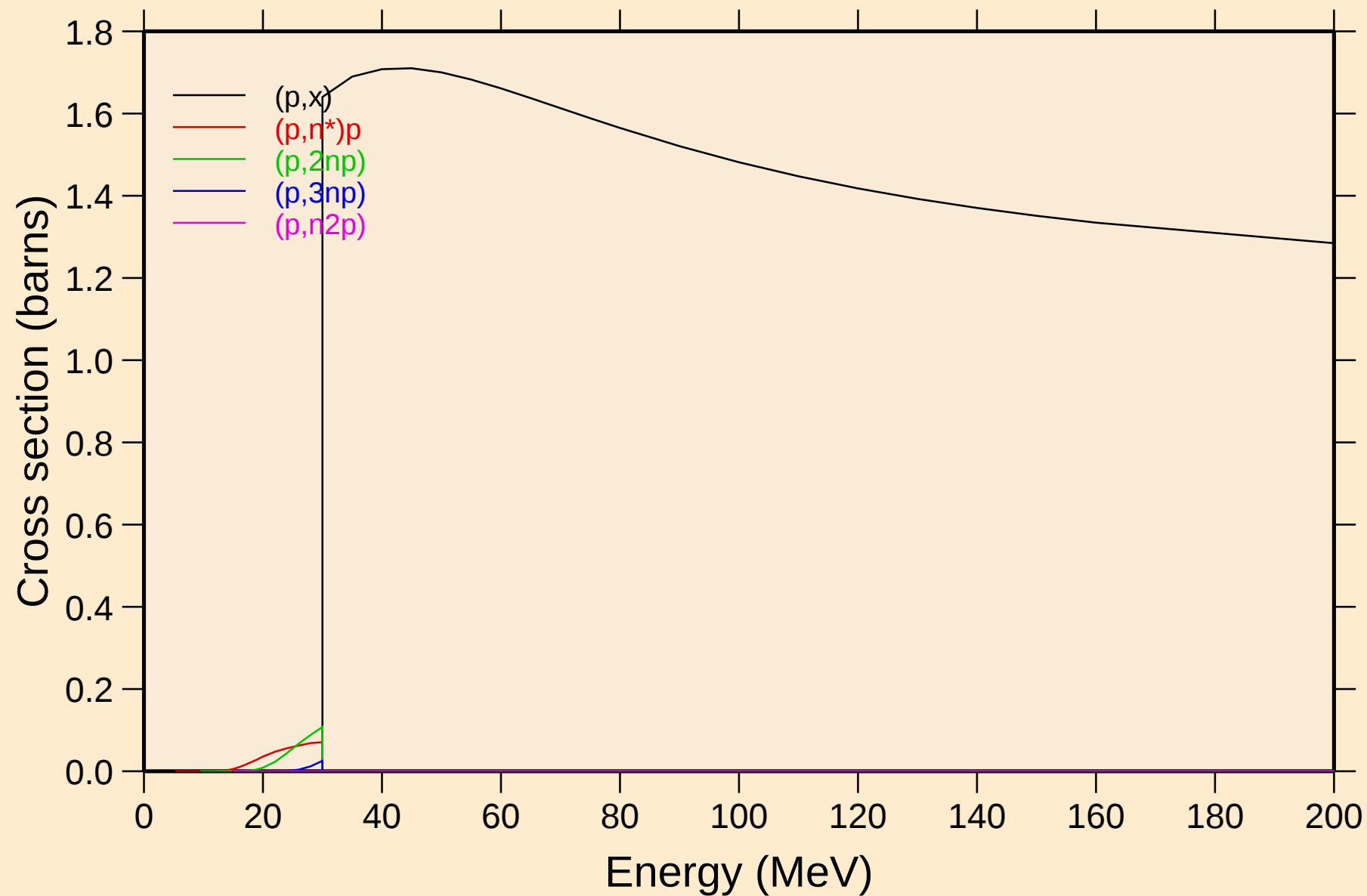
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Heating



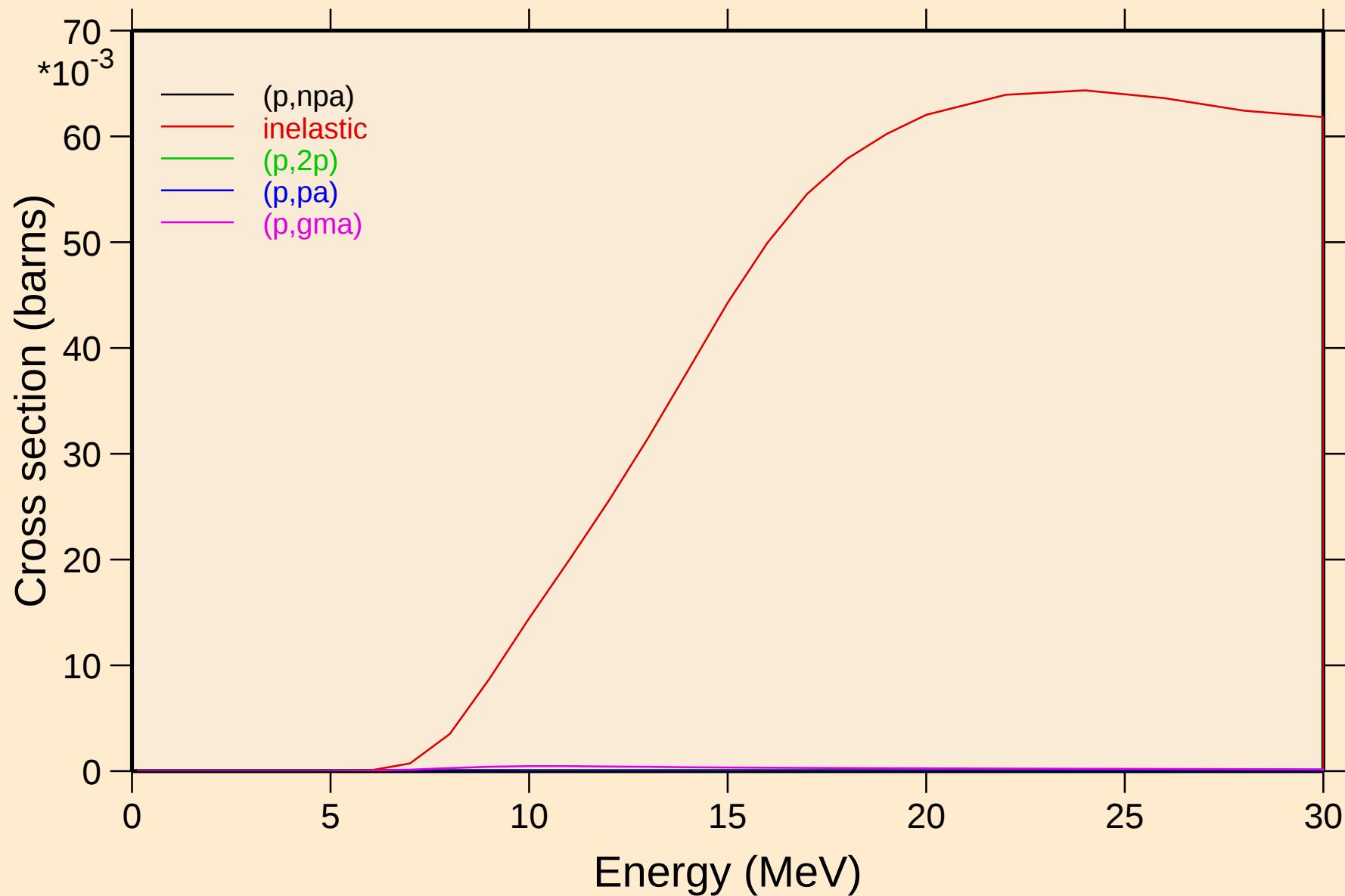
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



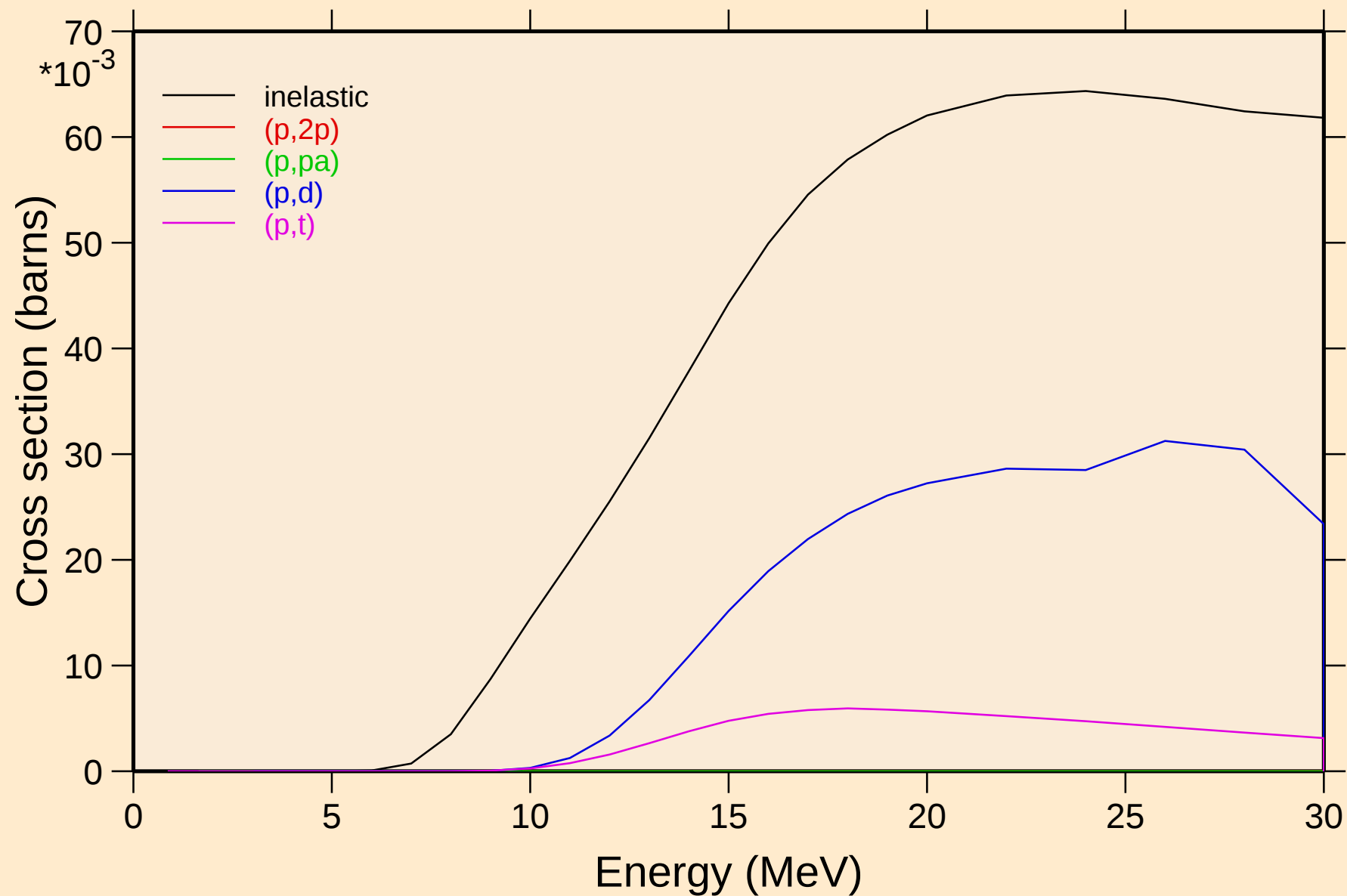
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



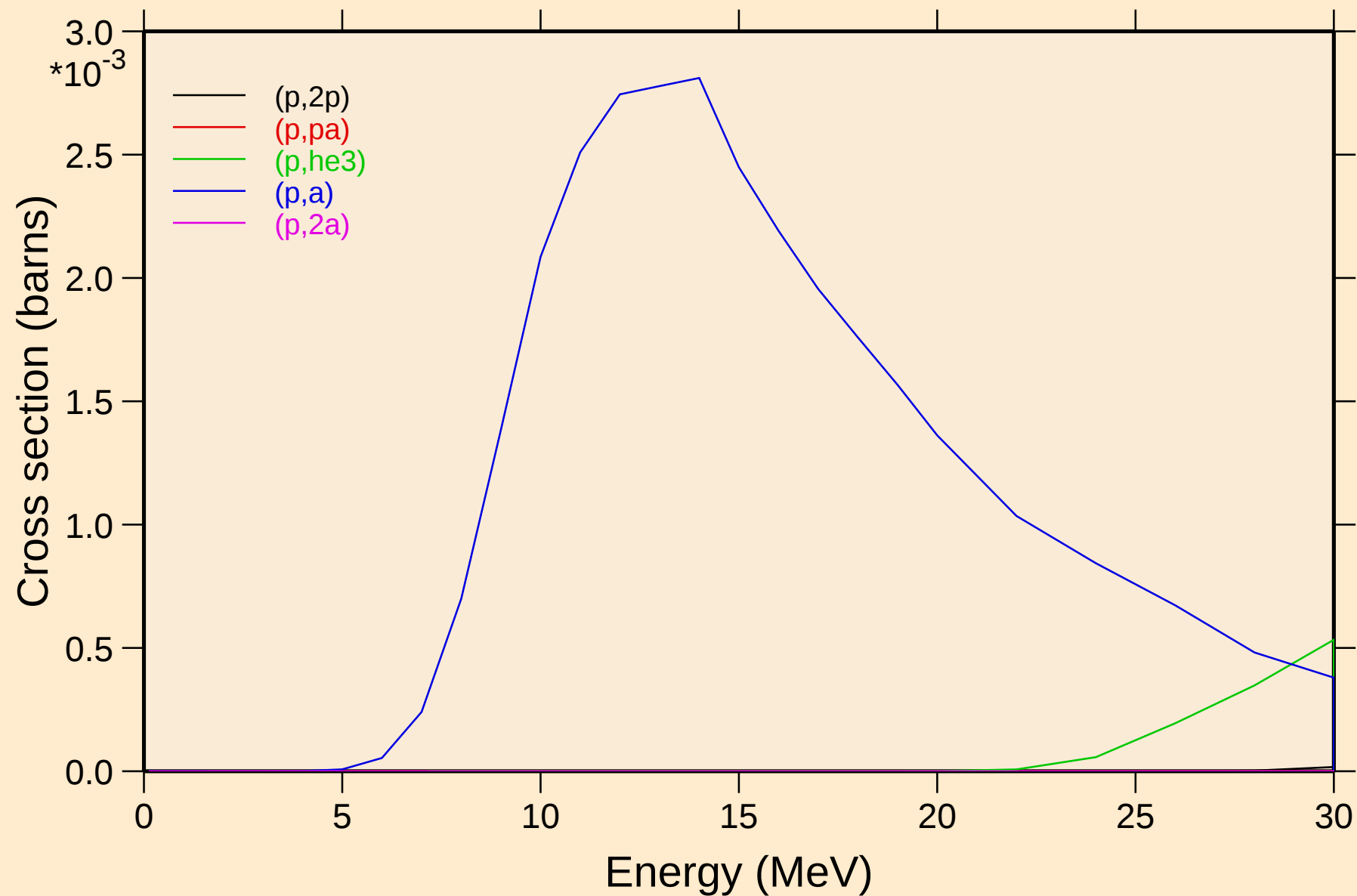
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions



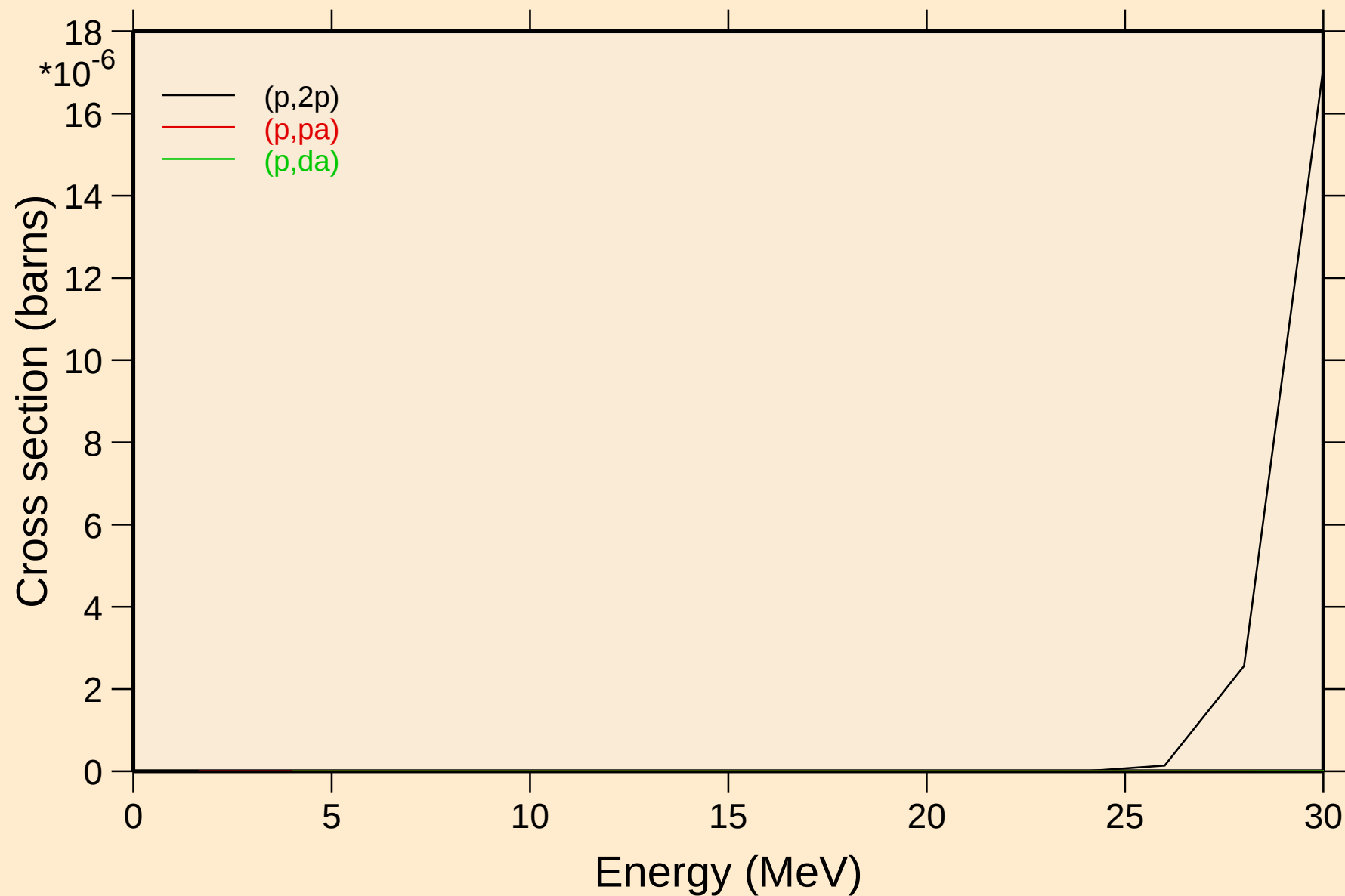
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Threshold reactions

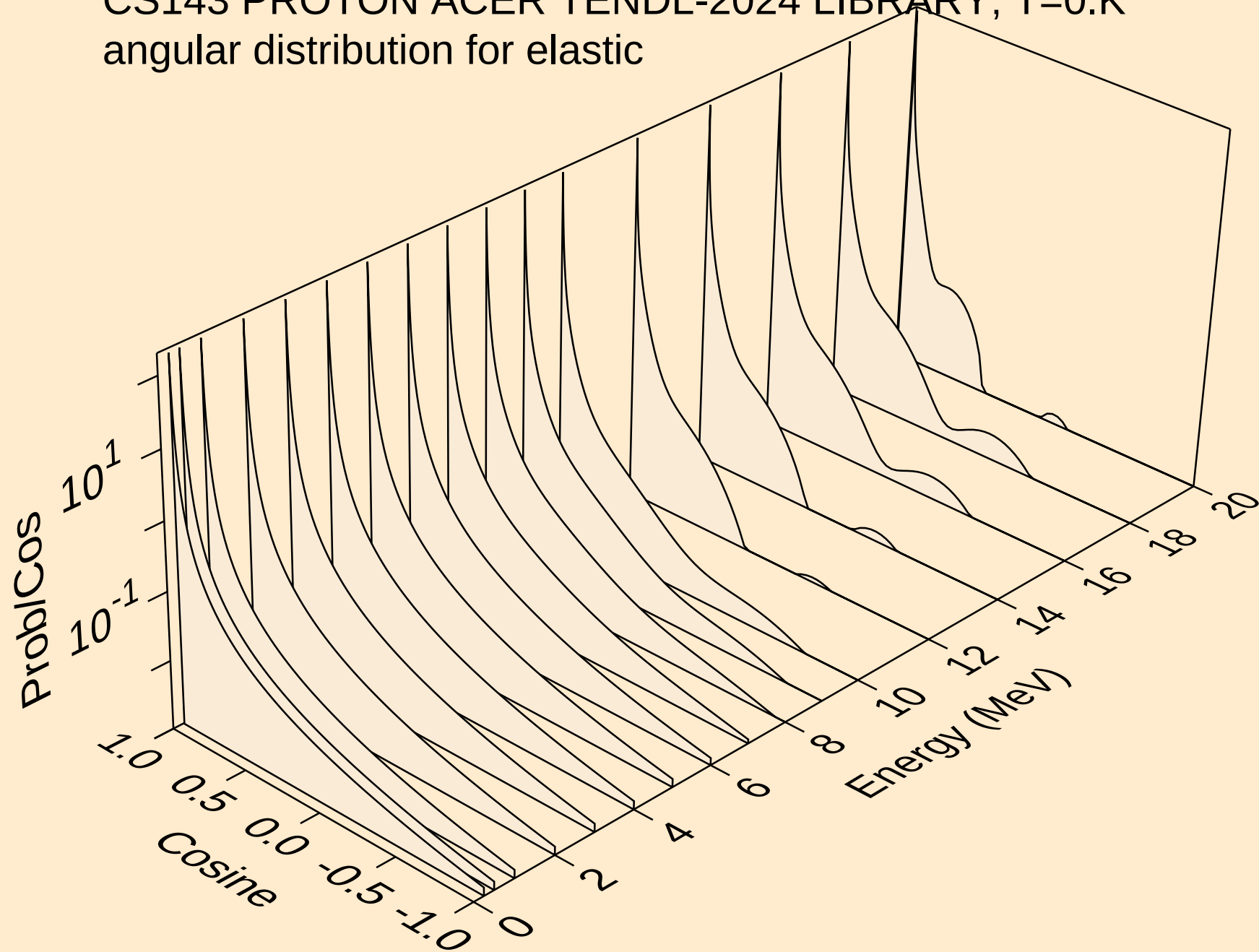


# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

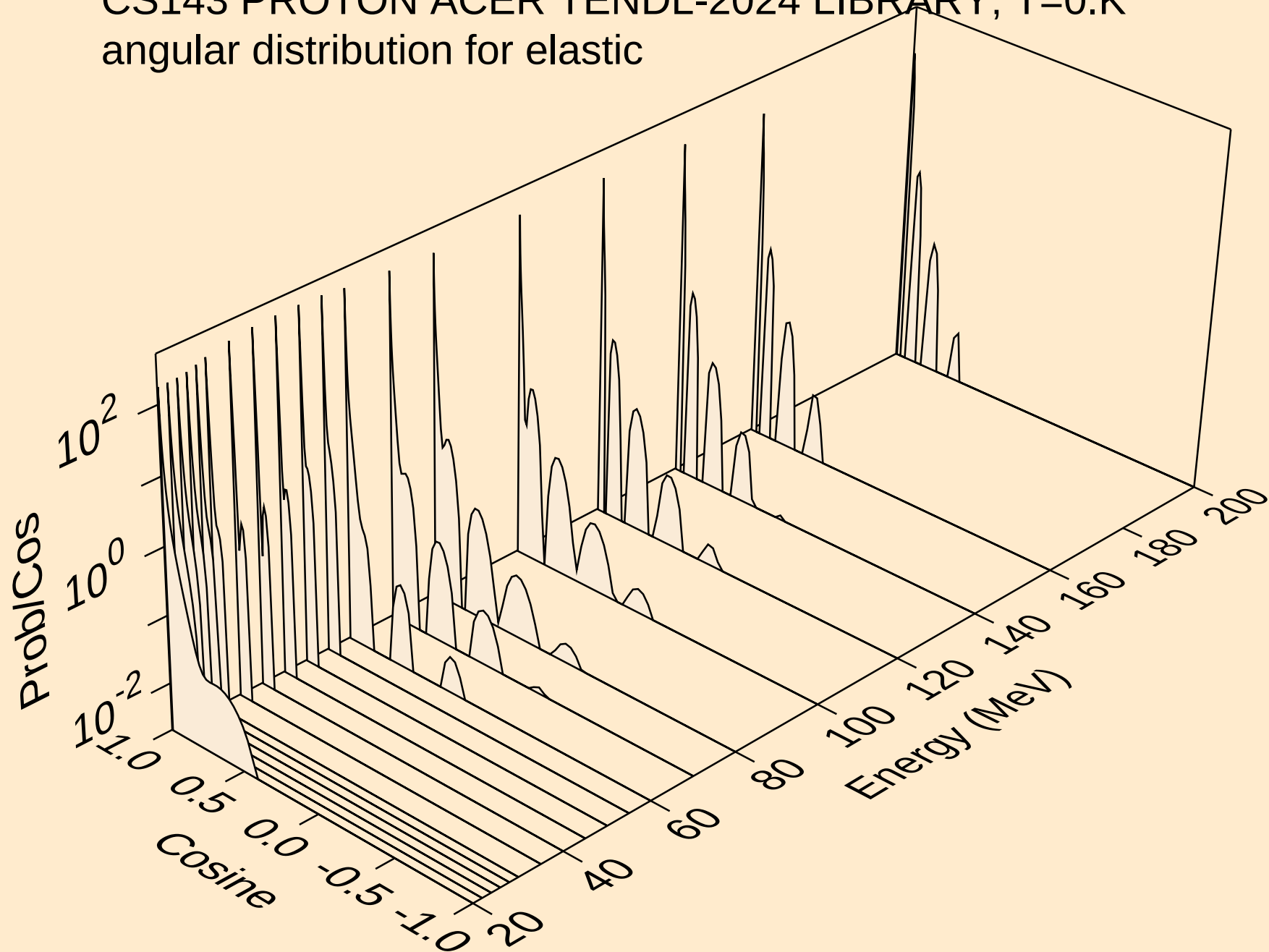
Threshold reactions



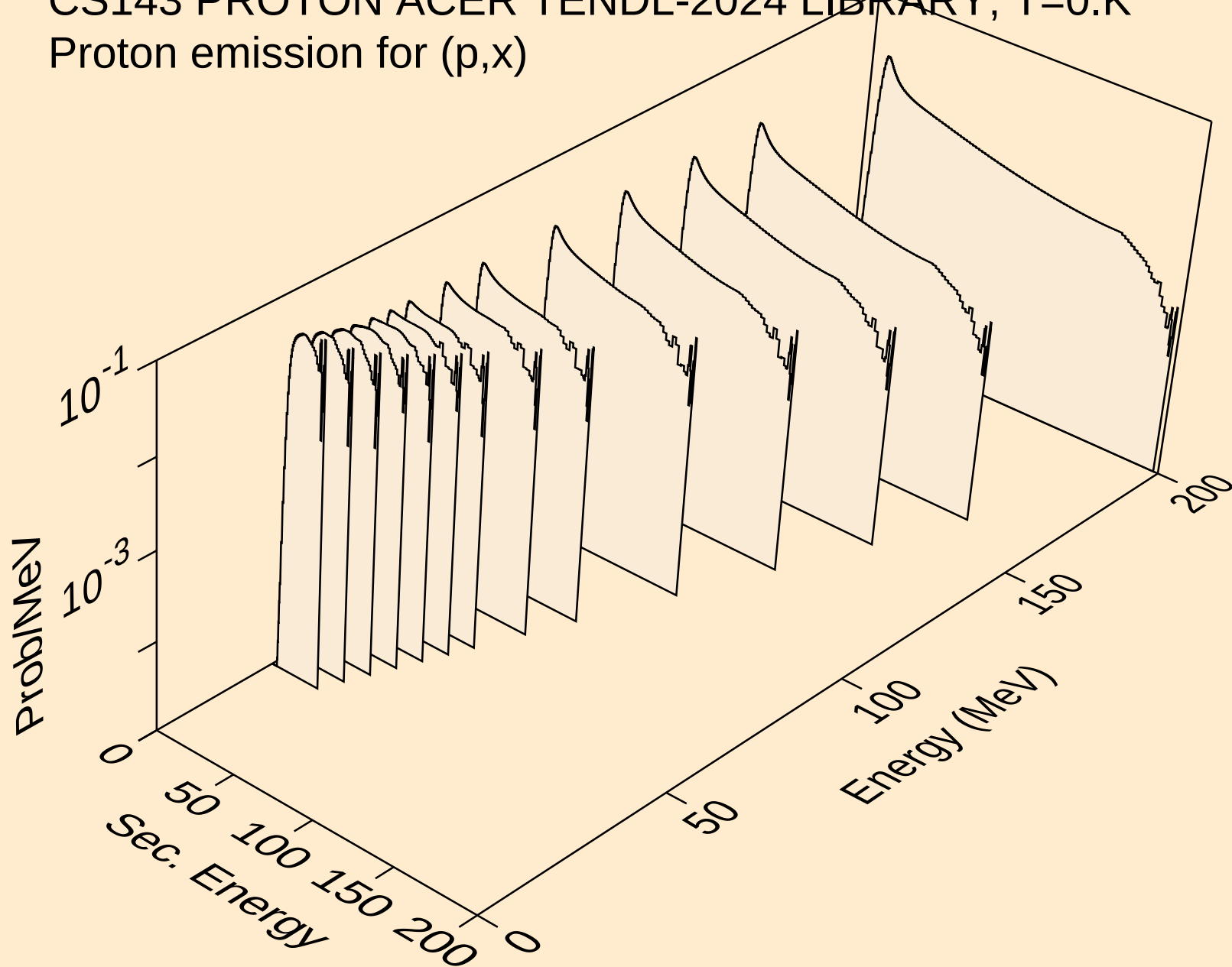
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic

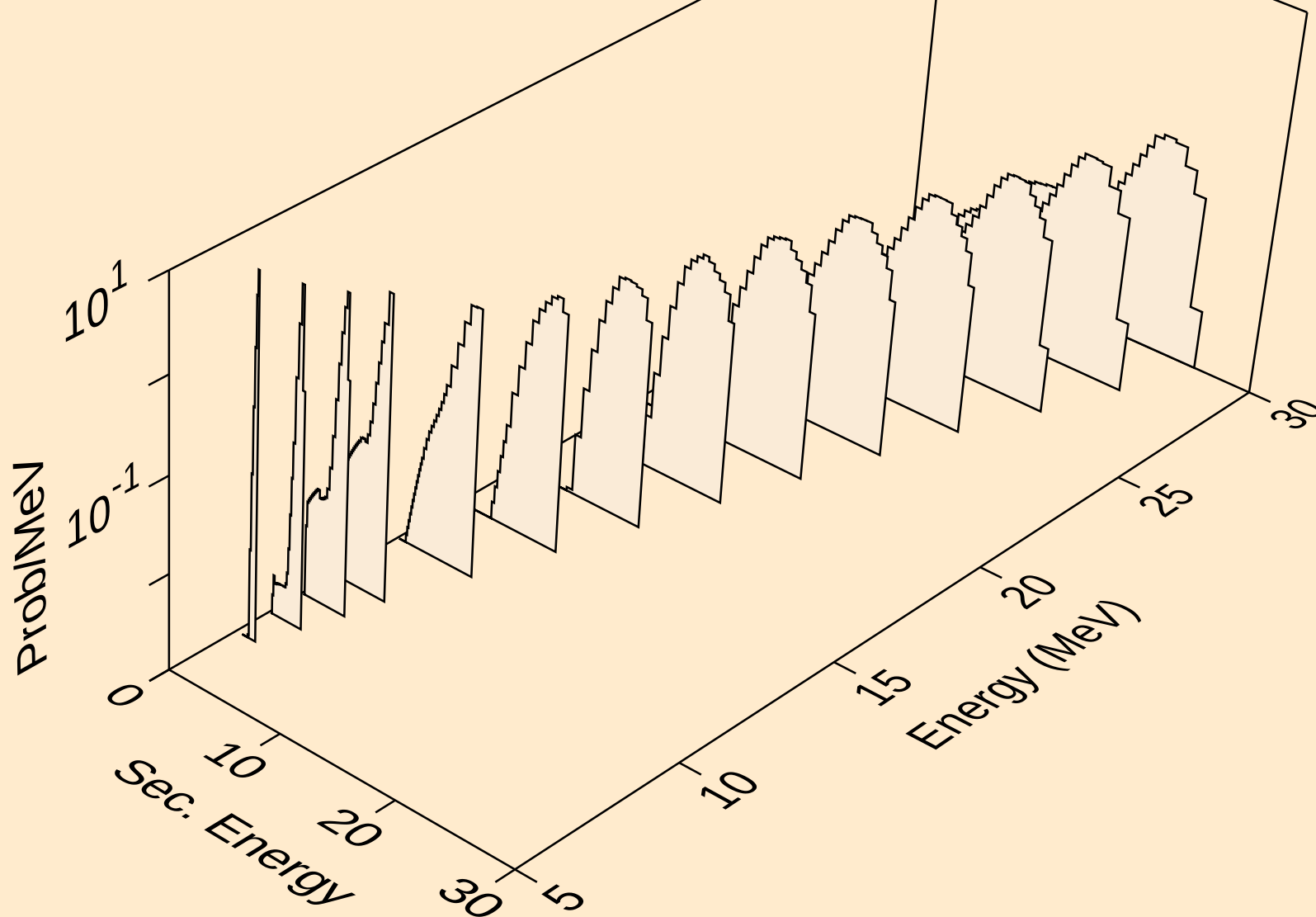


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,x)

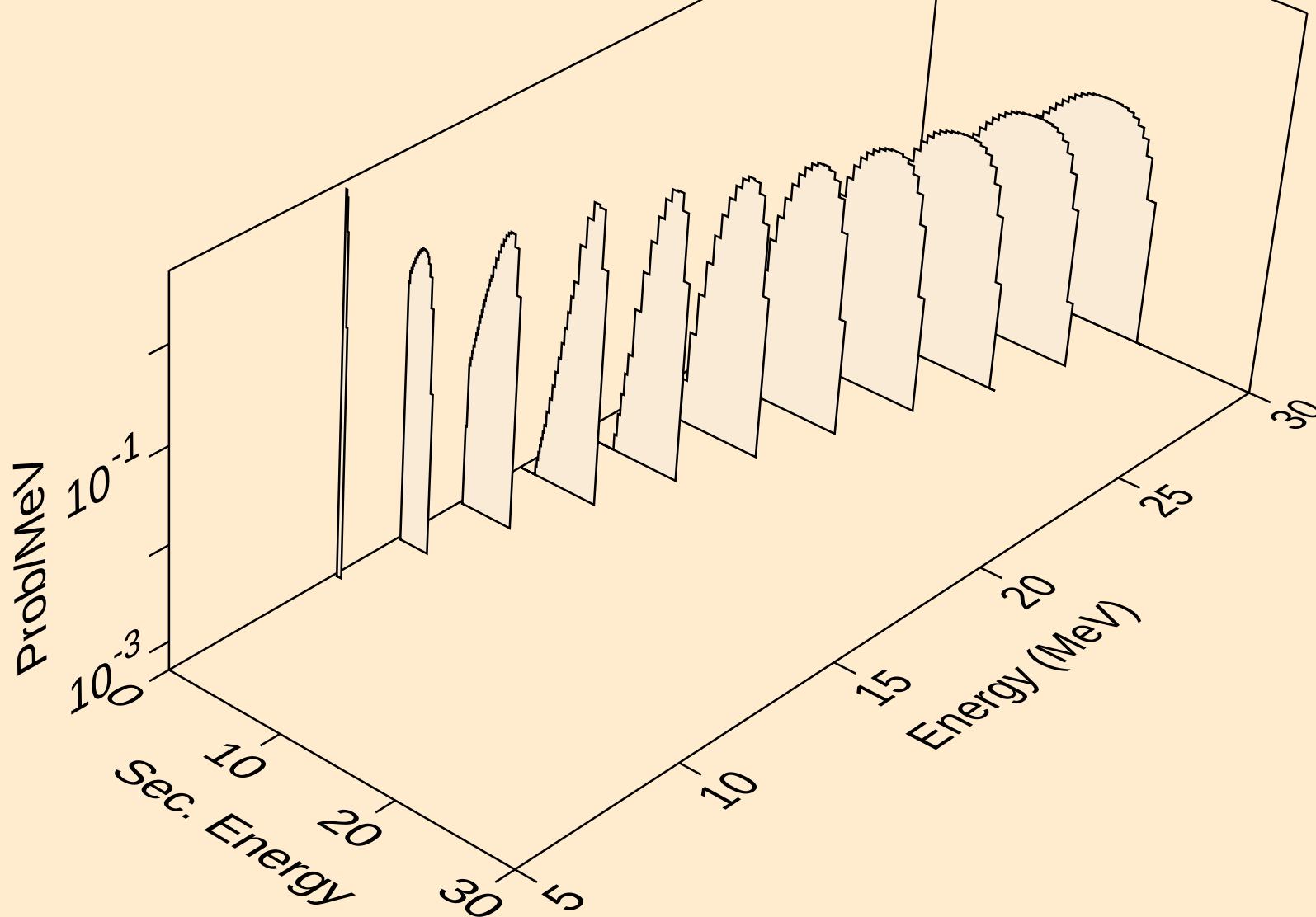


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

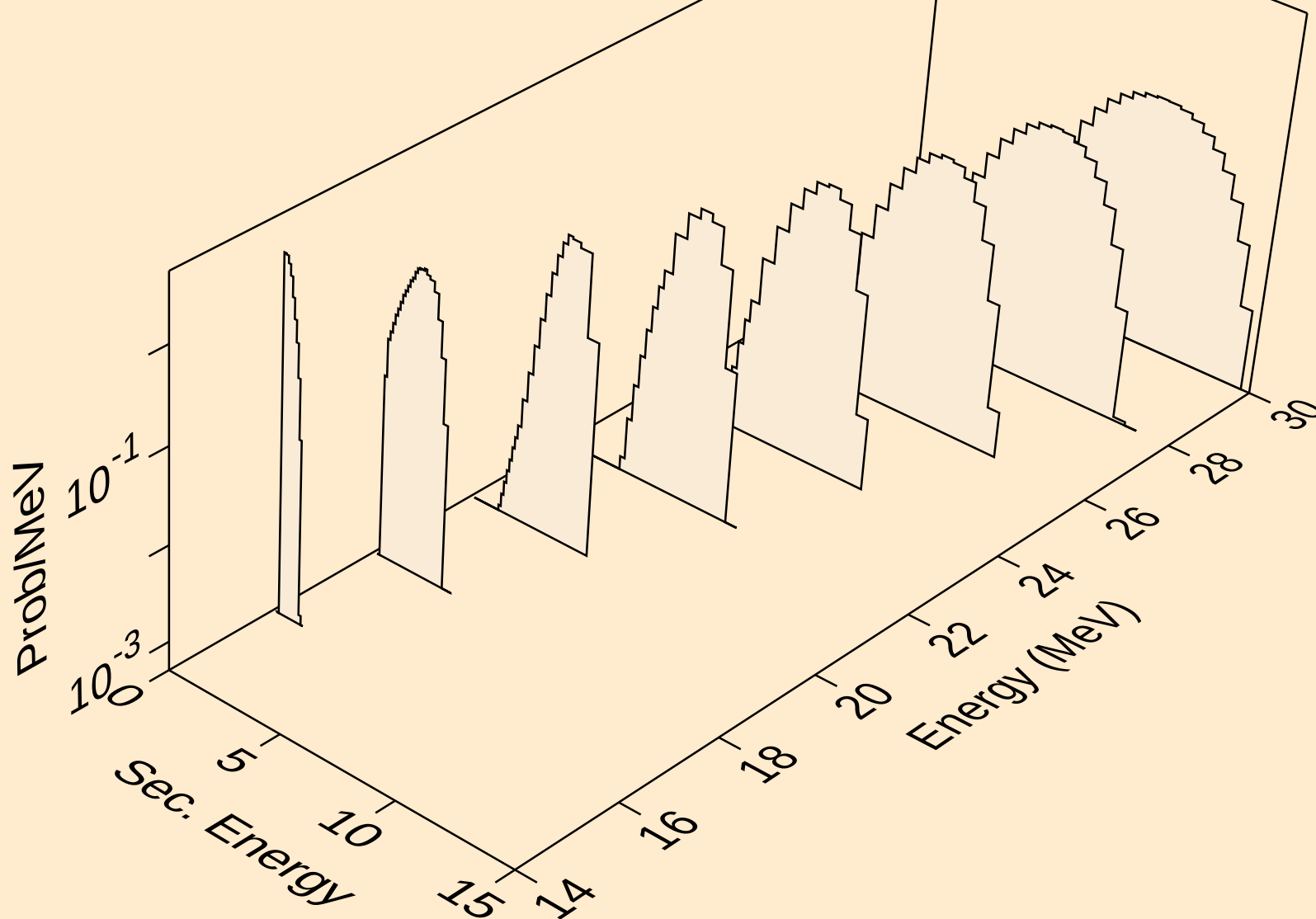
Proton emission for  $(p,n^*)p$



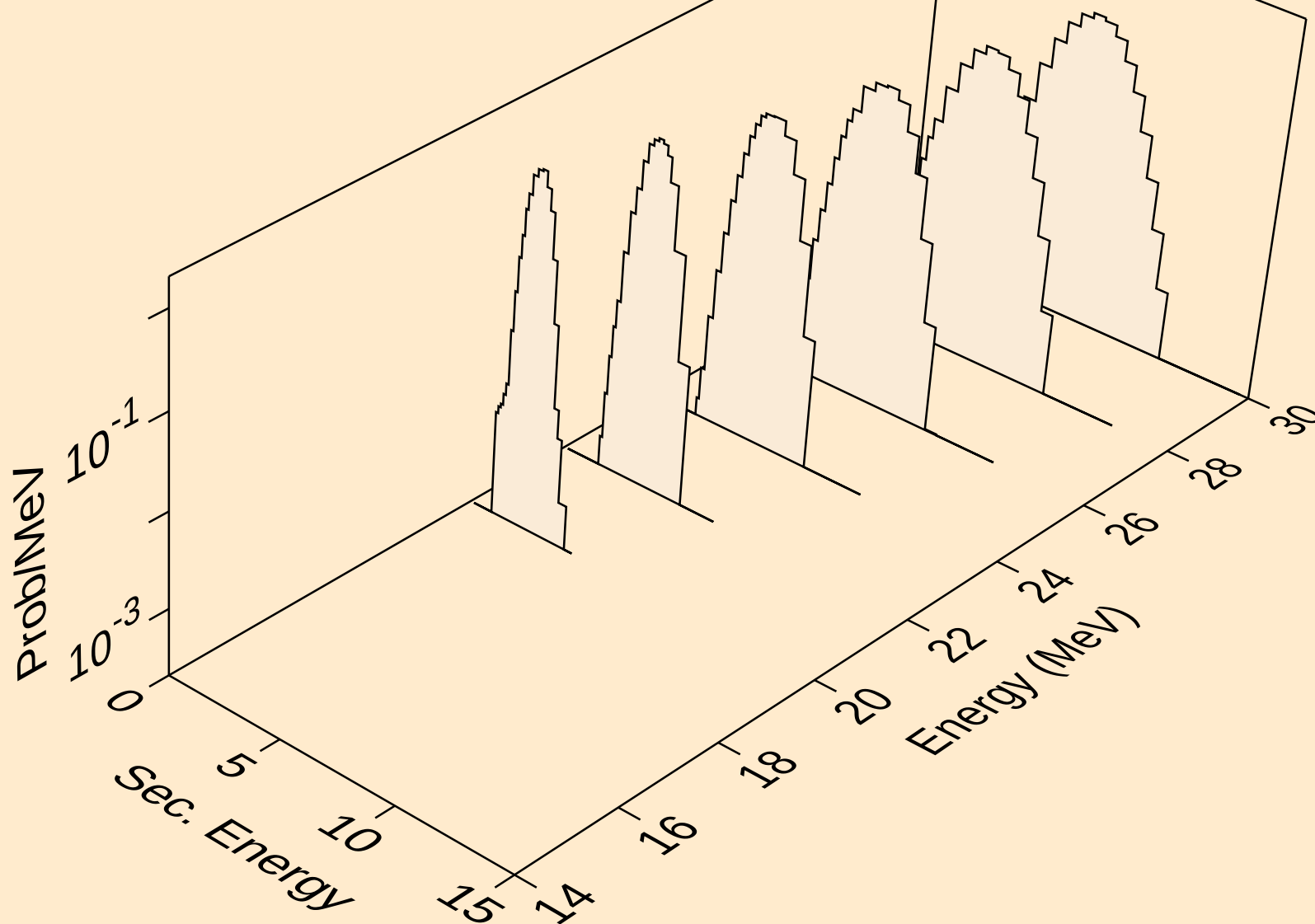
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,2np)



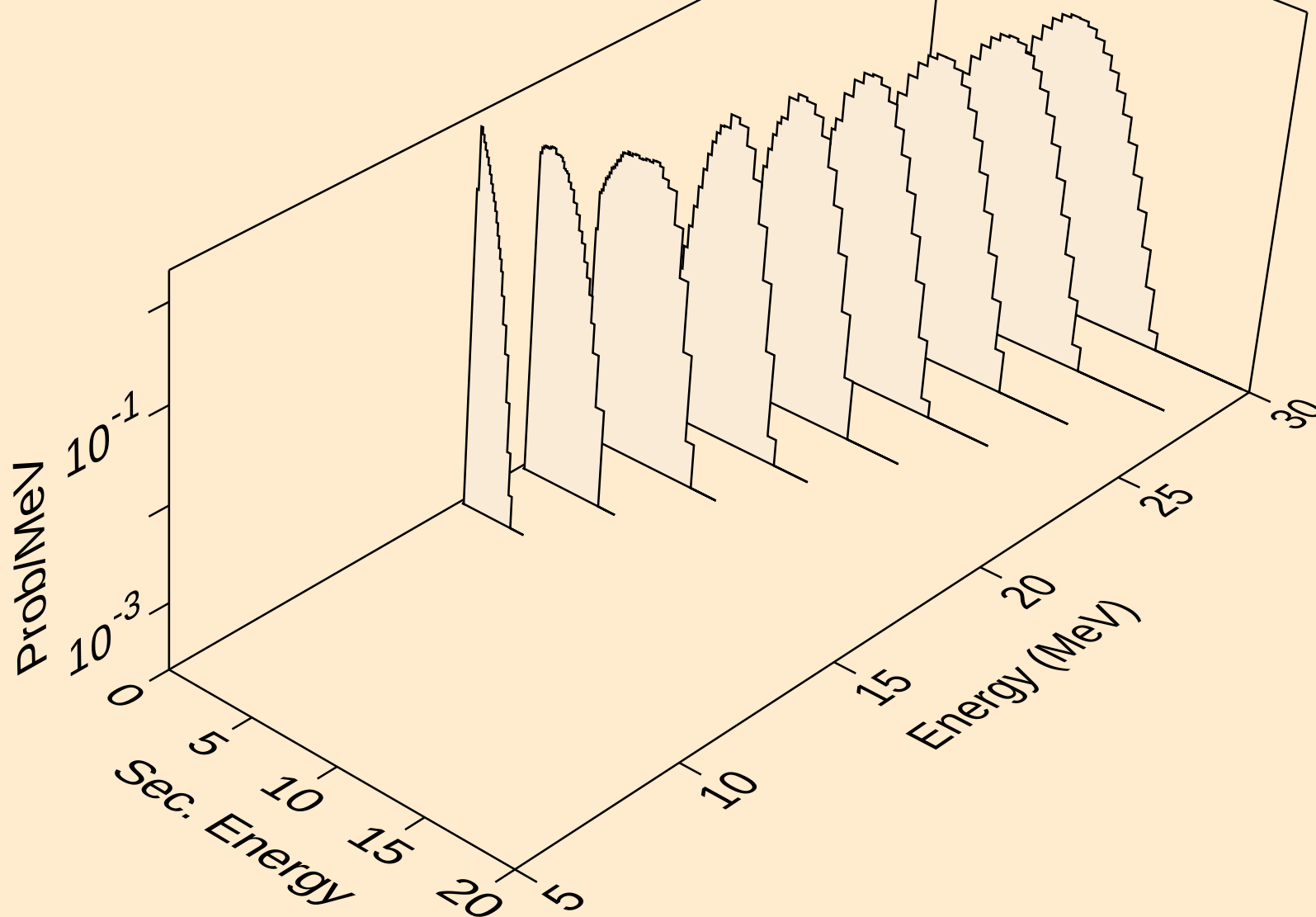
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,3np)



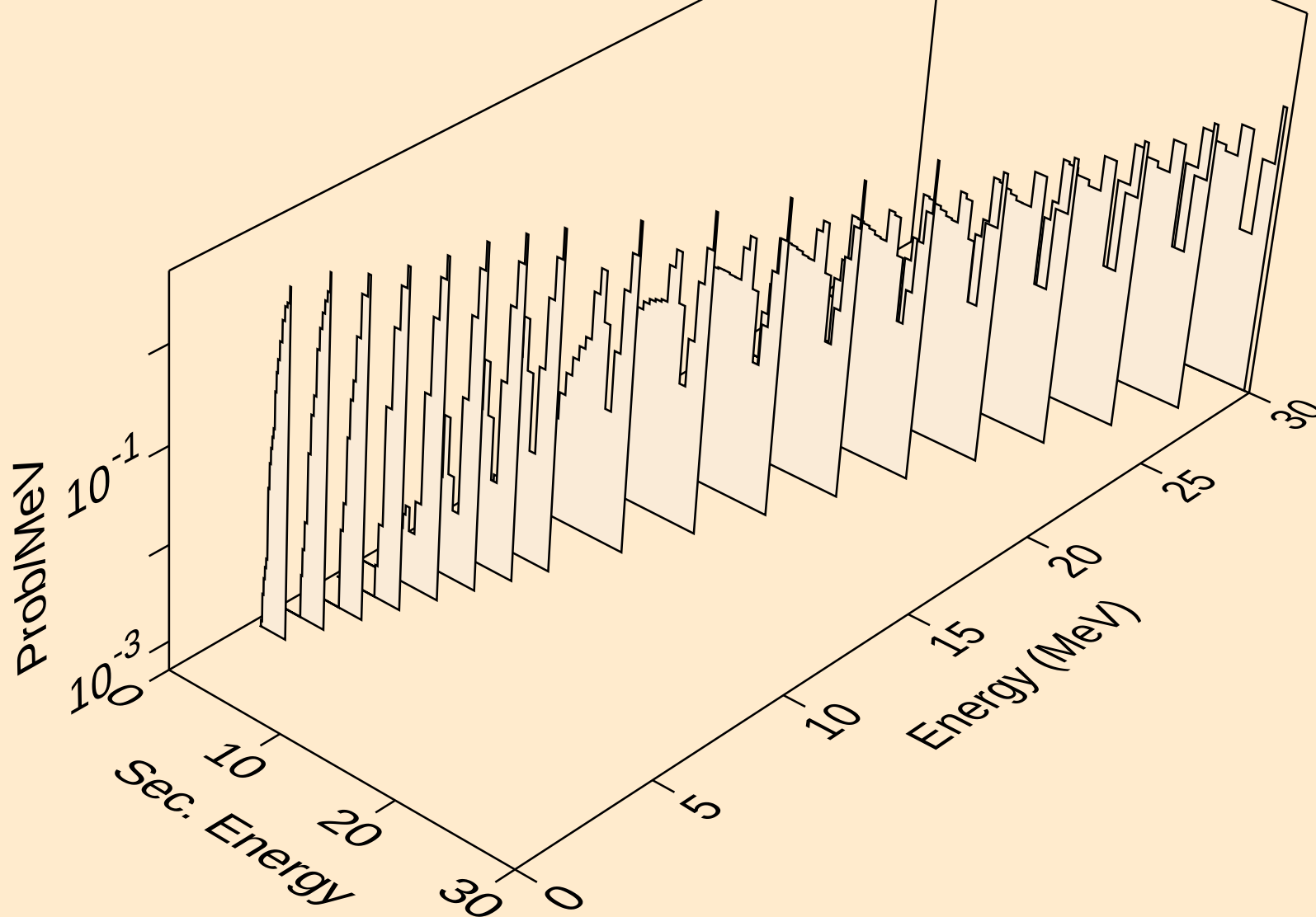
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,n2p)



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for (p,npa)

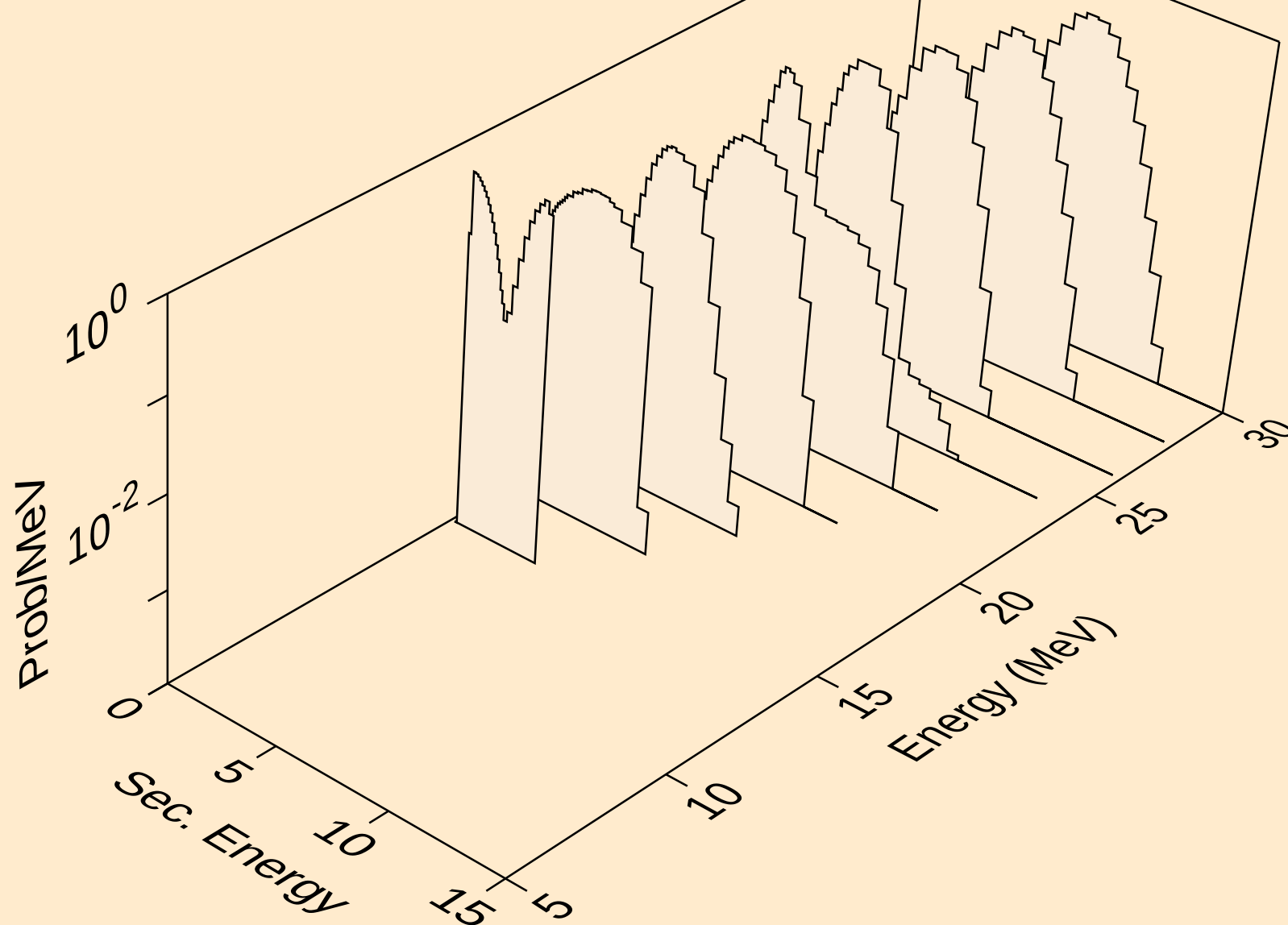


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Proton emission for inelastic



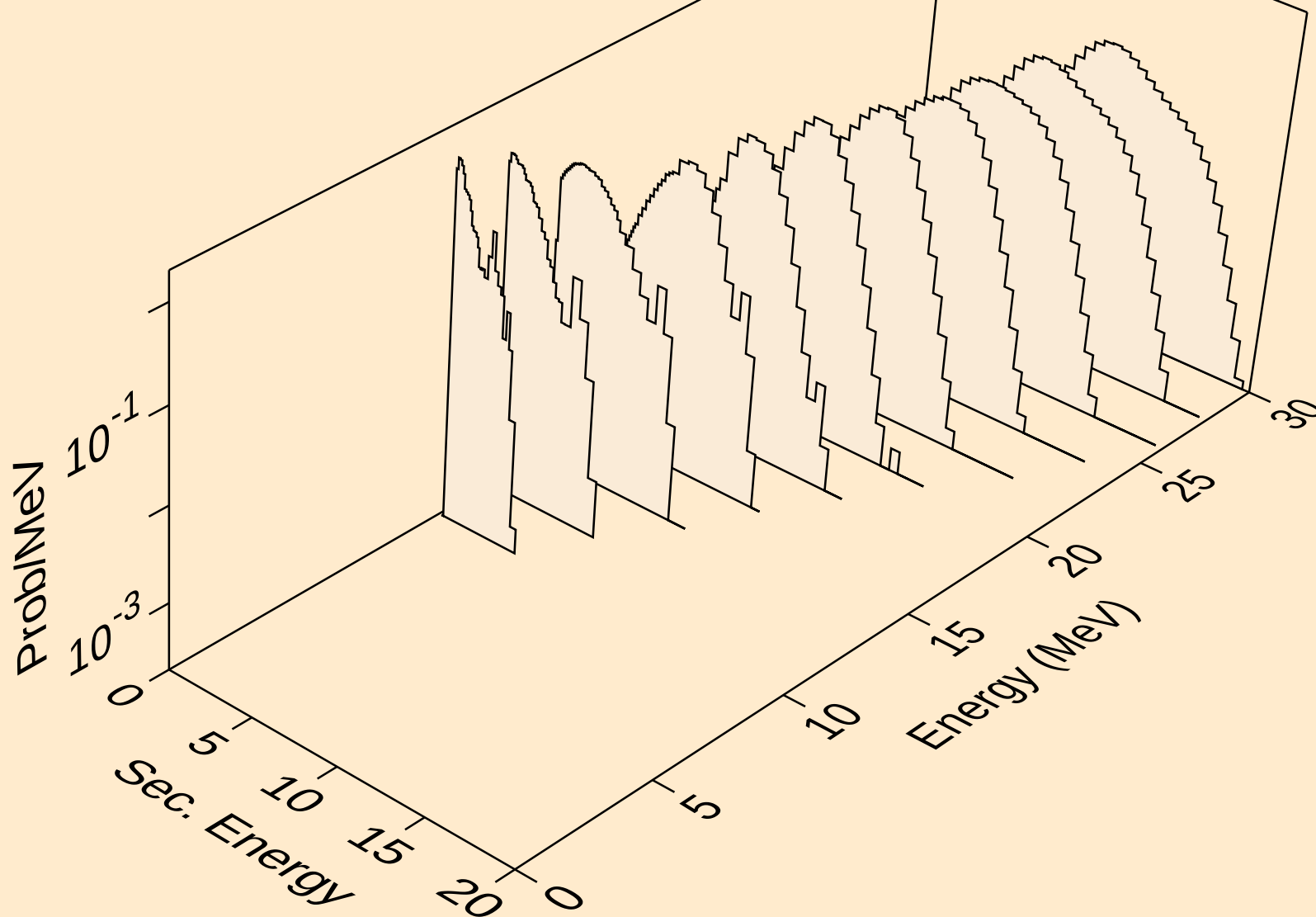
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,2p)

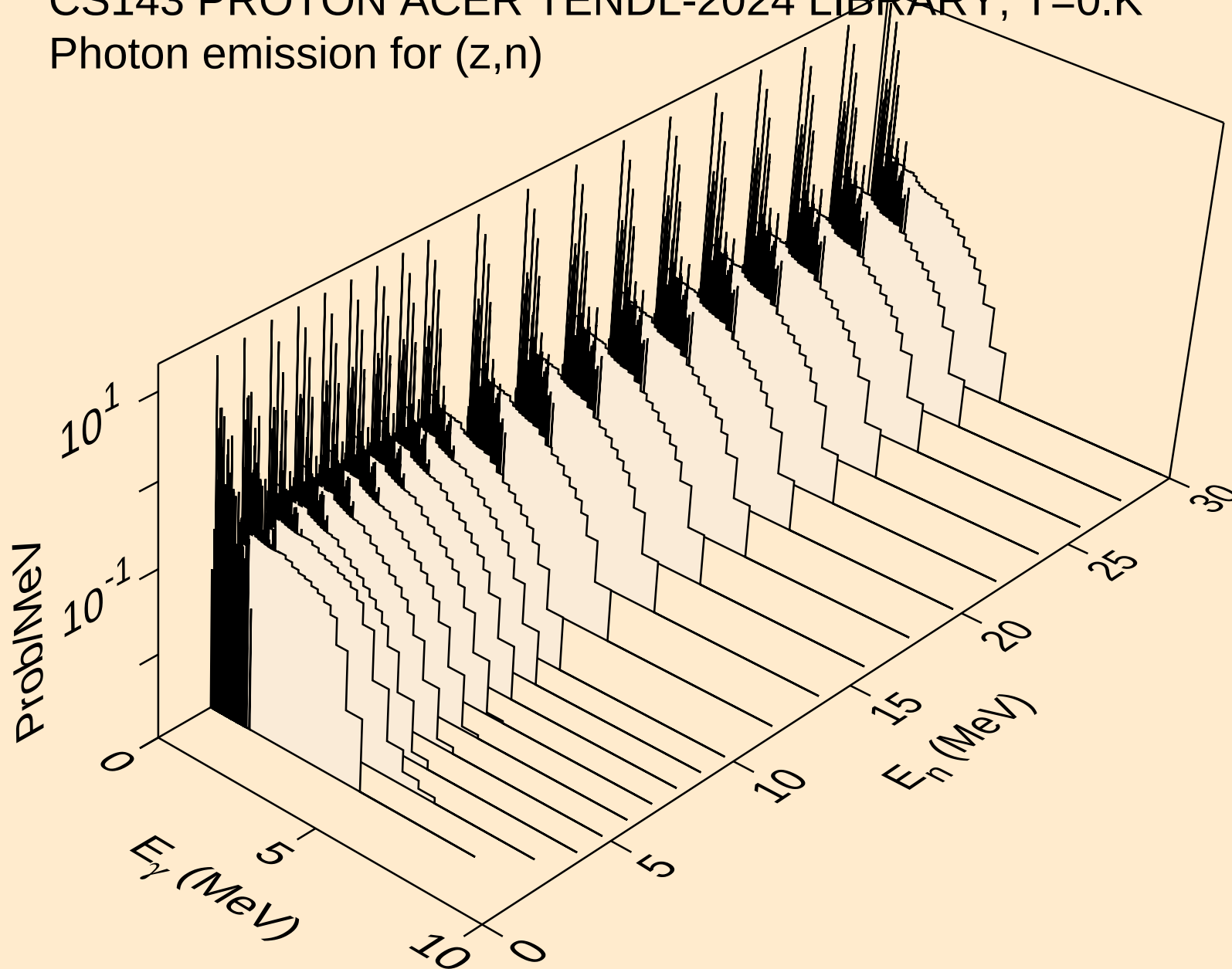


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Proton emission for (p,pa)

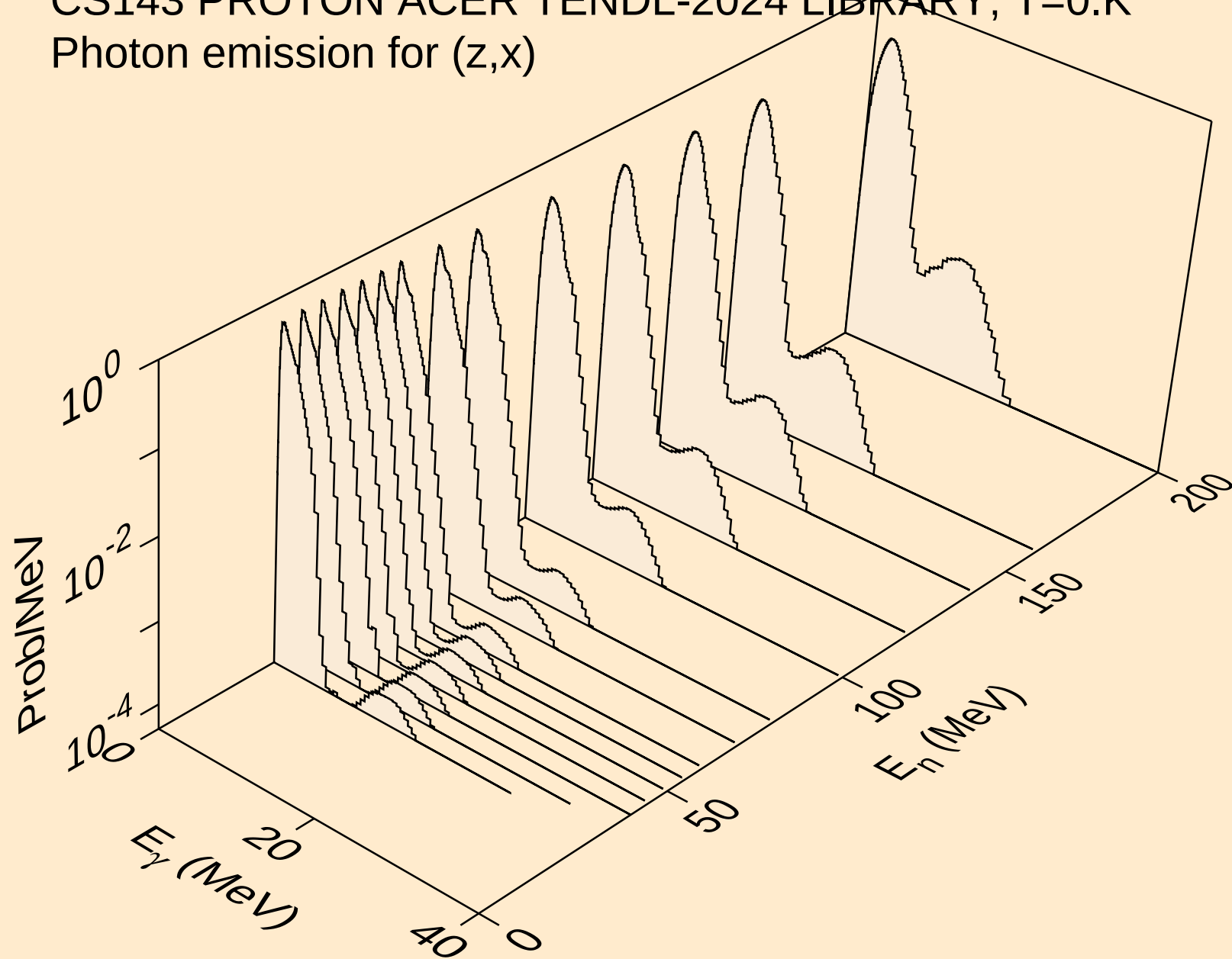


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (z,n)

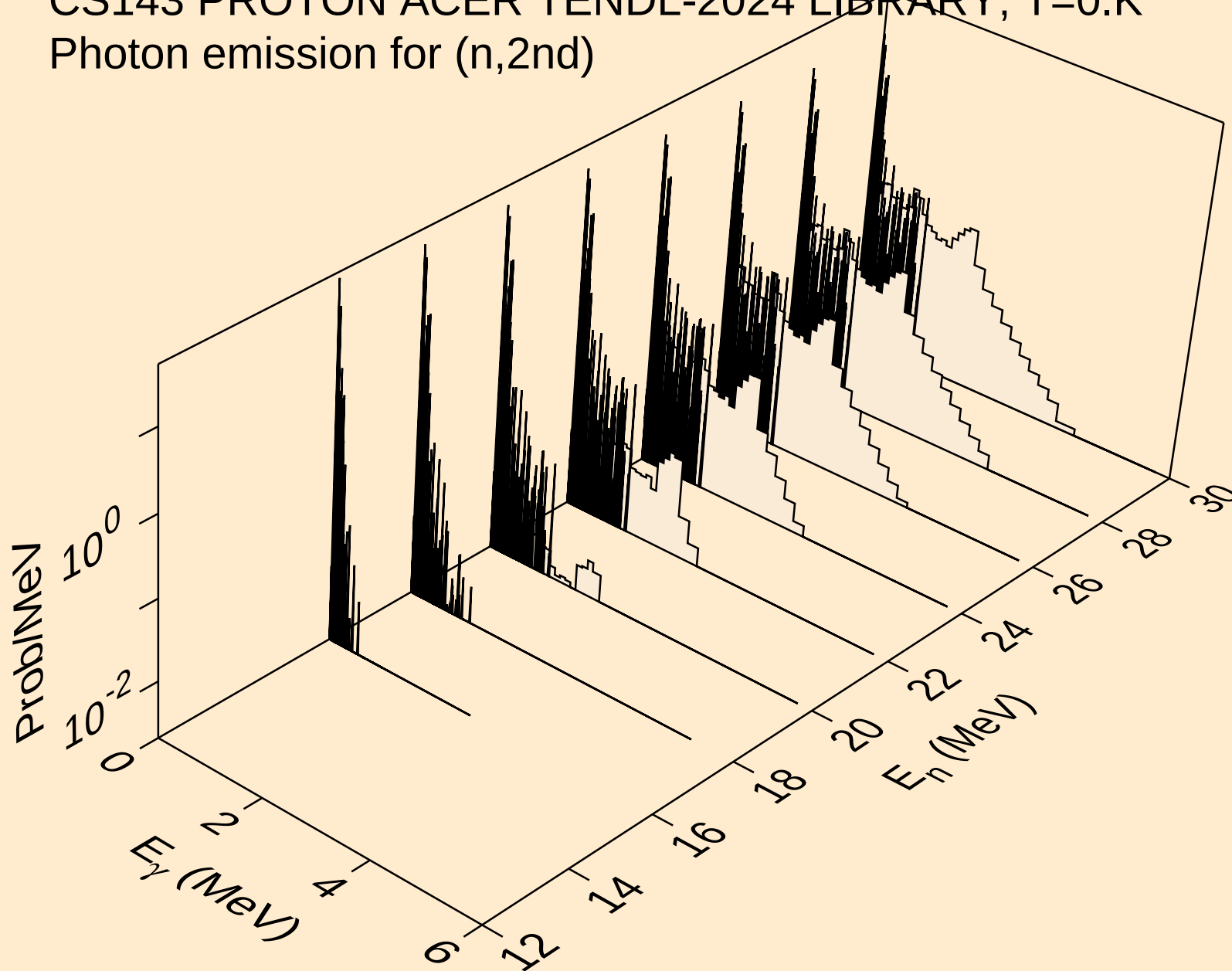


# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

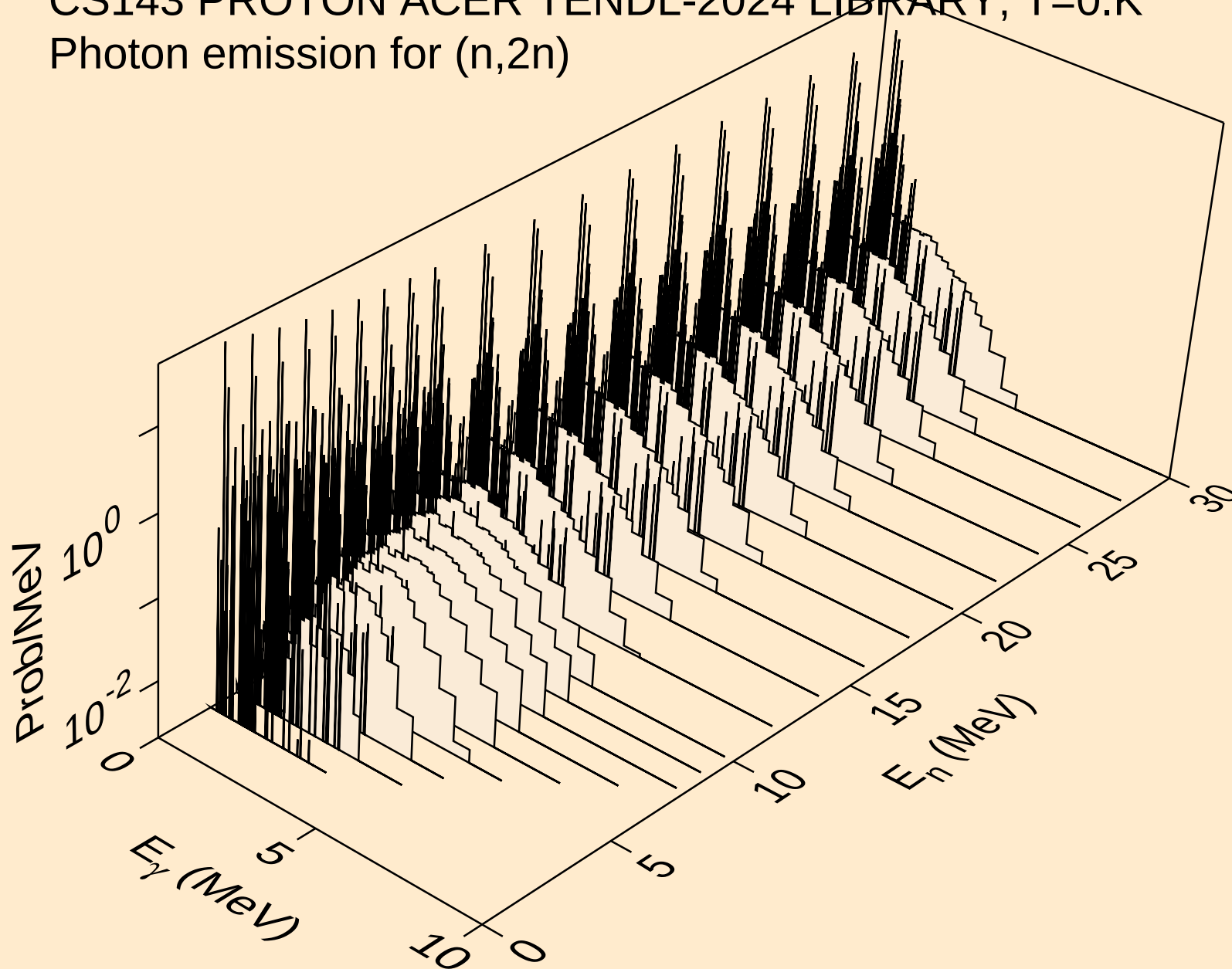
Photon emission for (z,x)



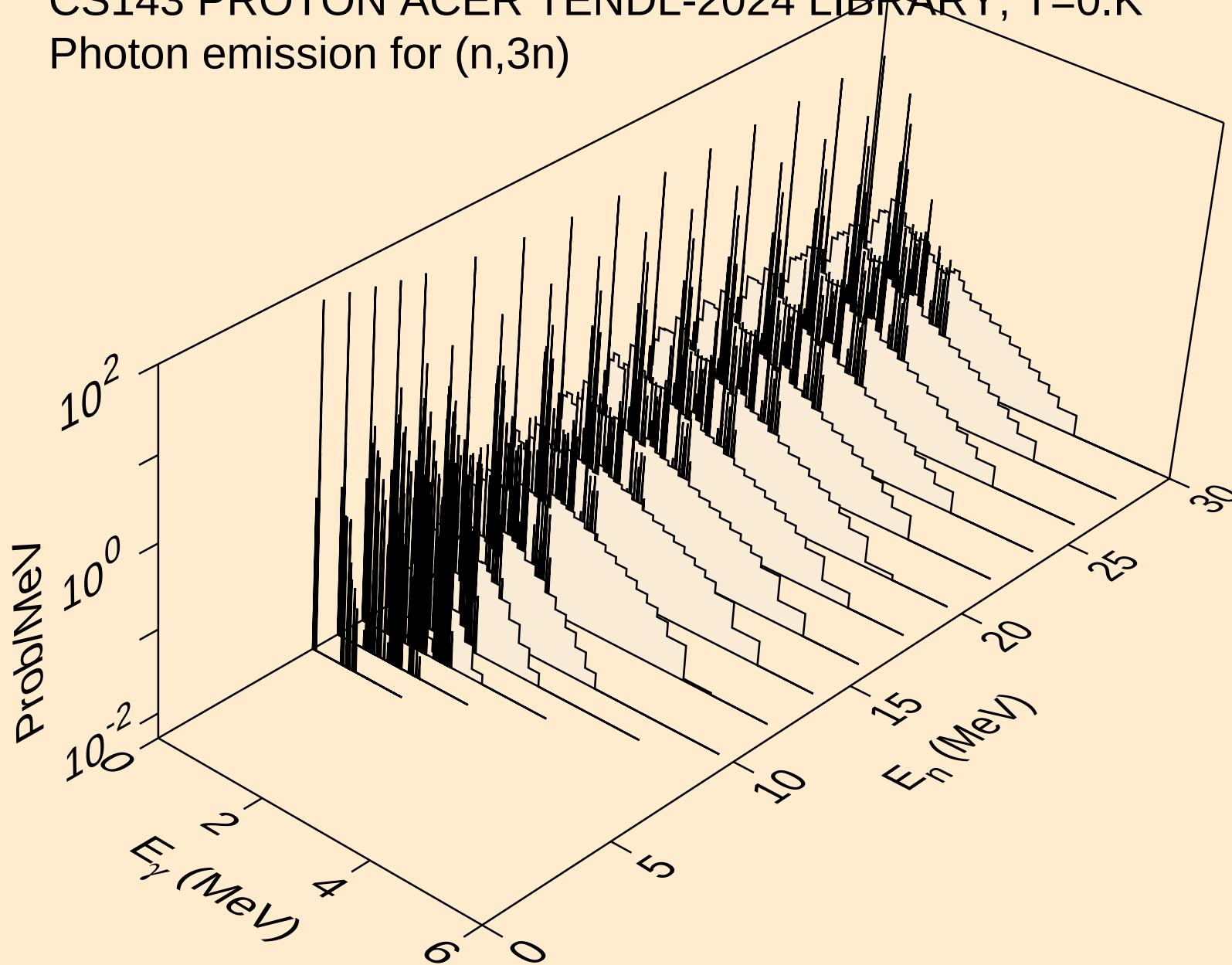
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)



CS143 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for (n,2n)

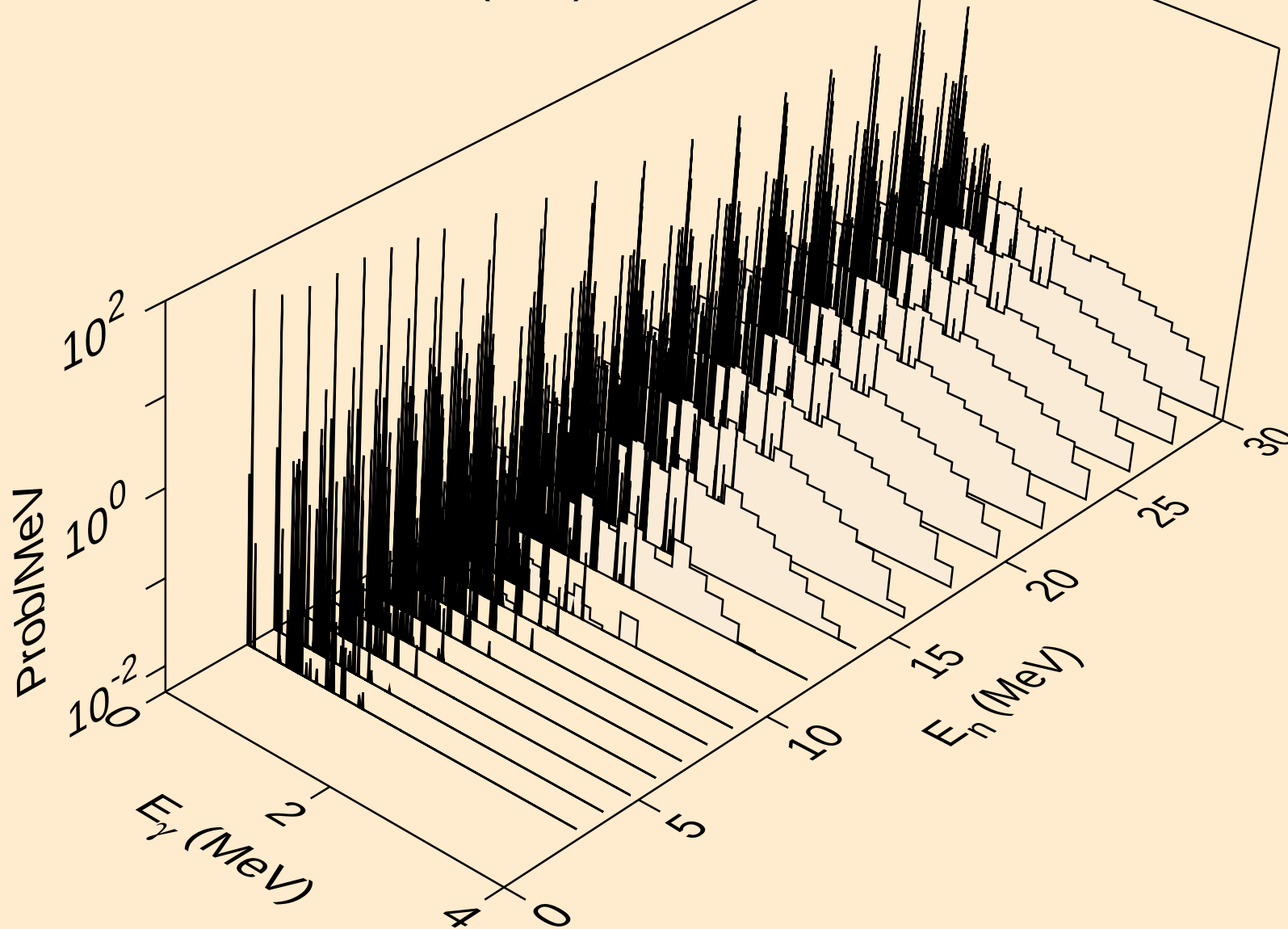


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



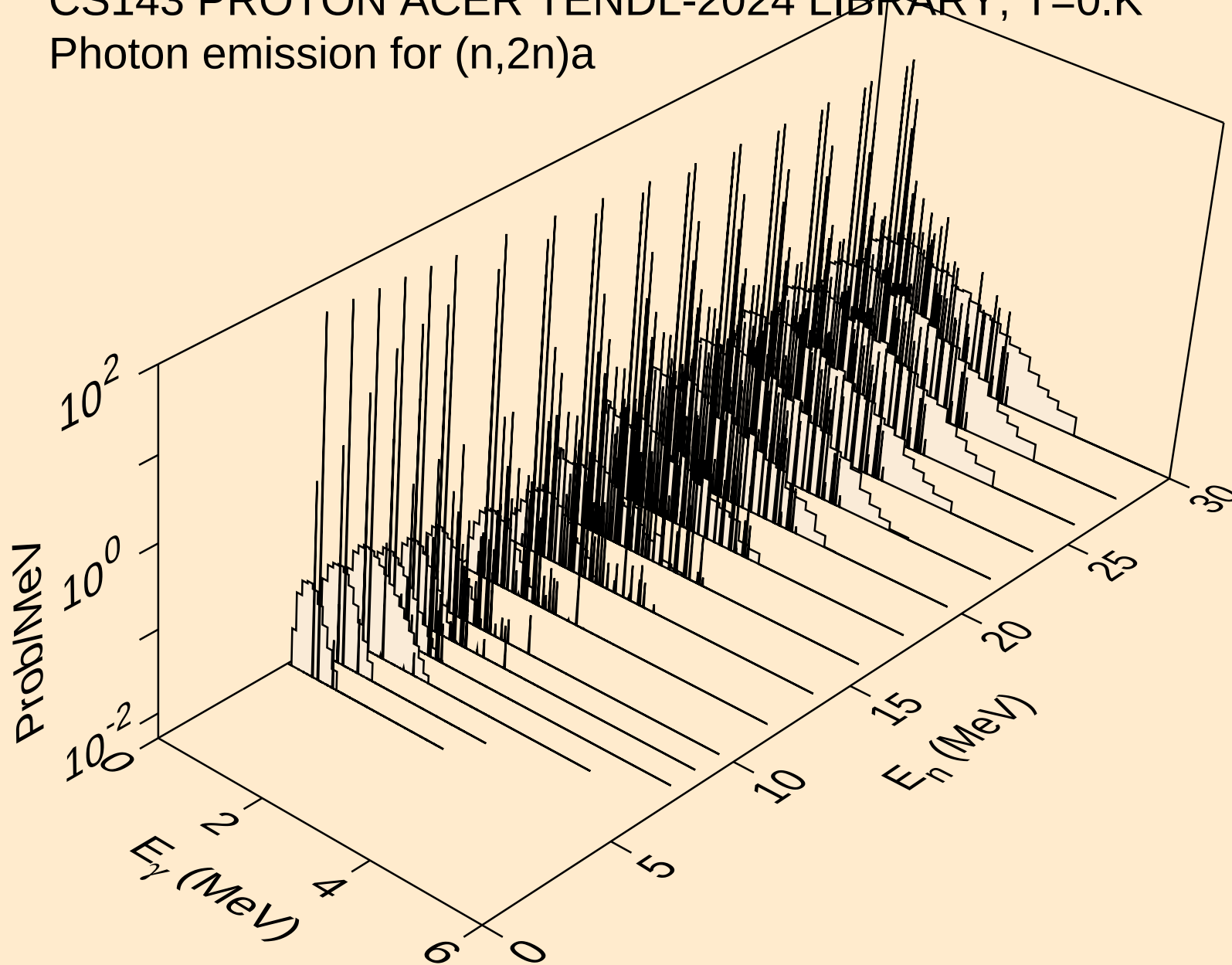
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)a



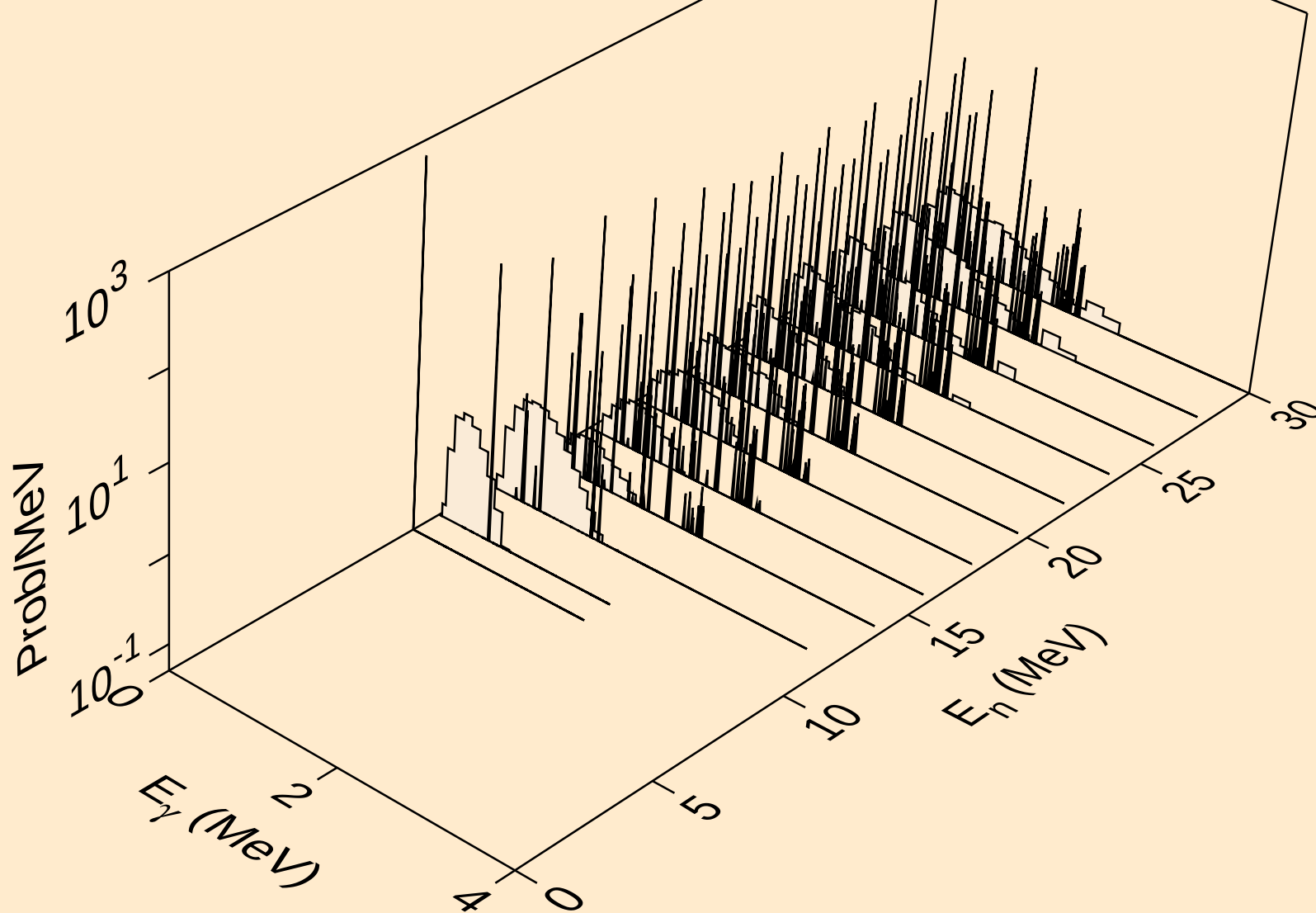
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

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

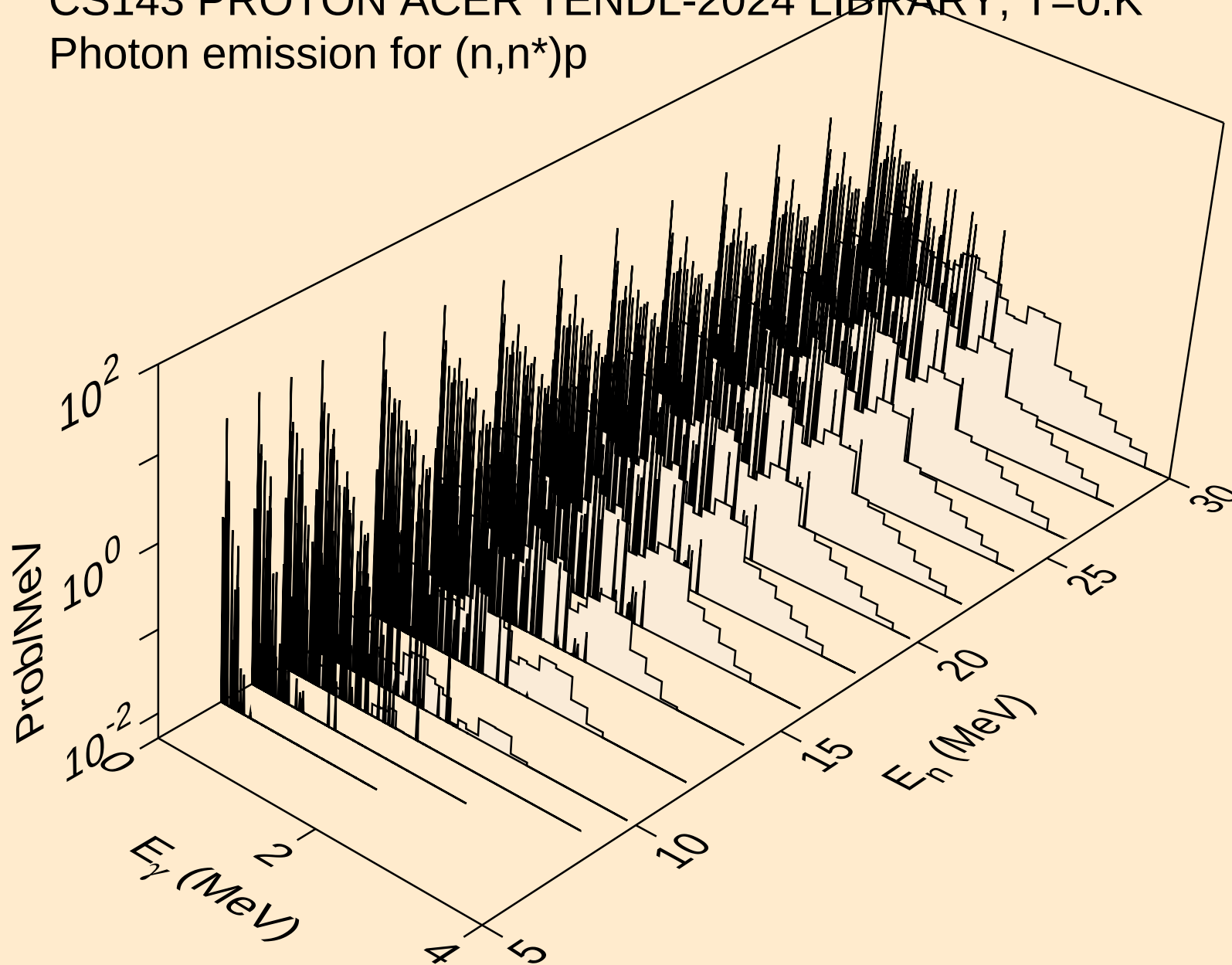


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

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

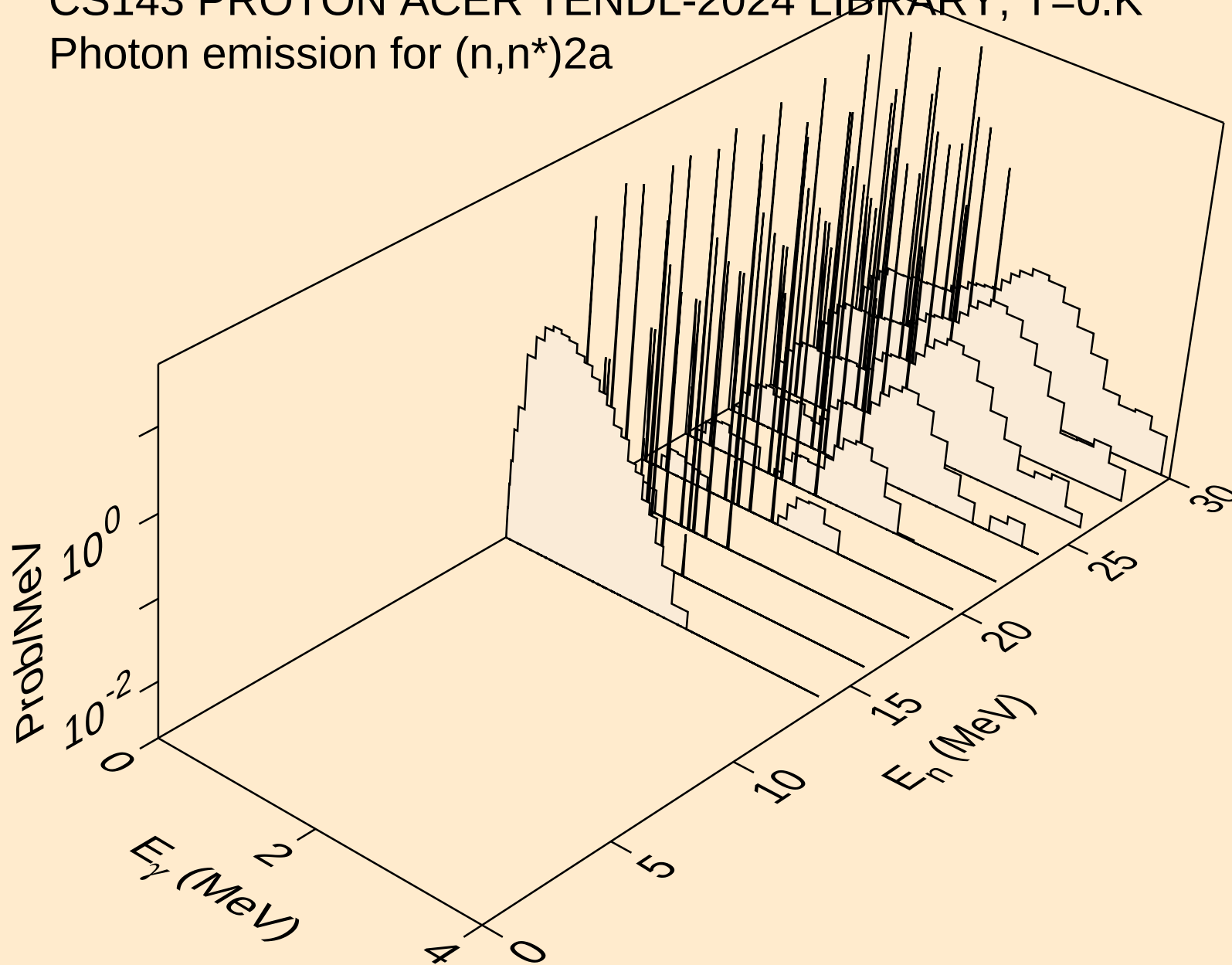


CS143 PROTON ACER TENDL-2024 LIBRARY;  $T=0.K$   
Photon emission for  $(n,n^*)p$



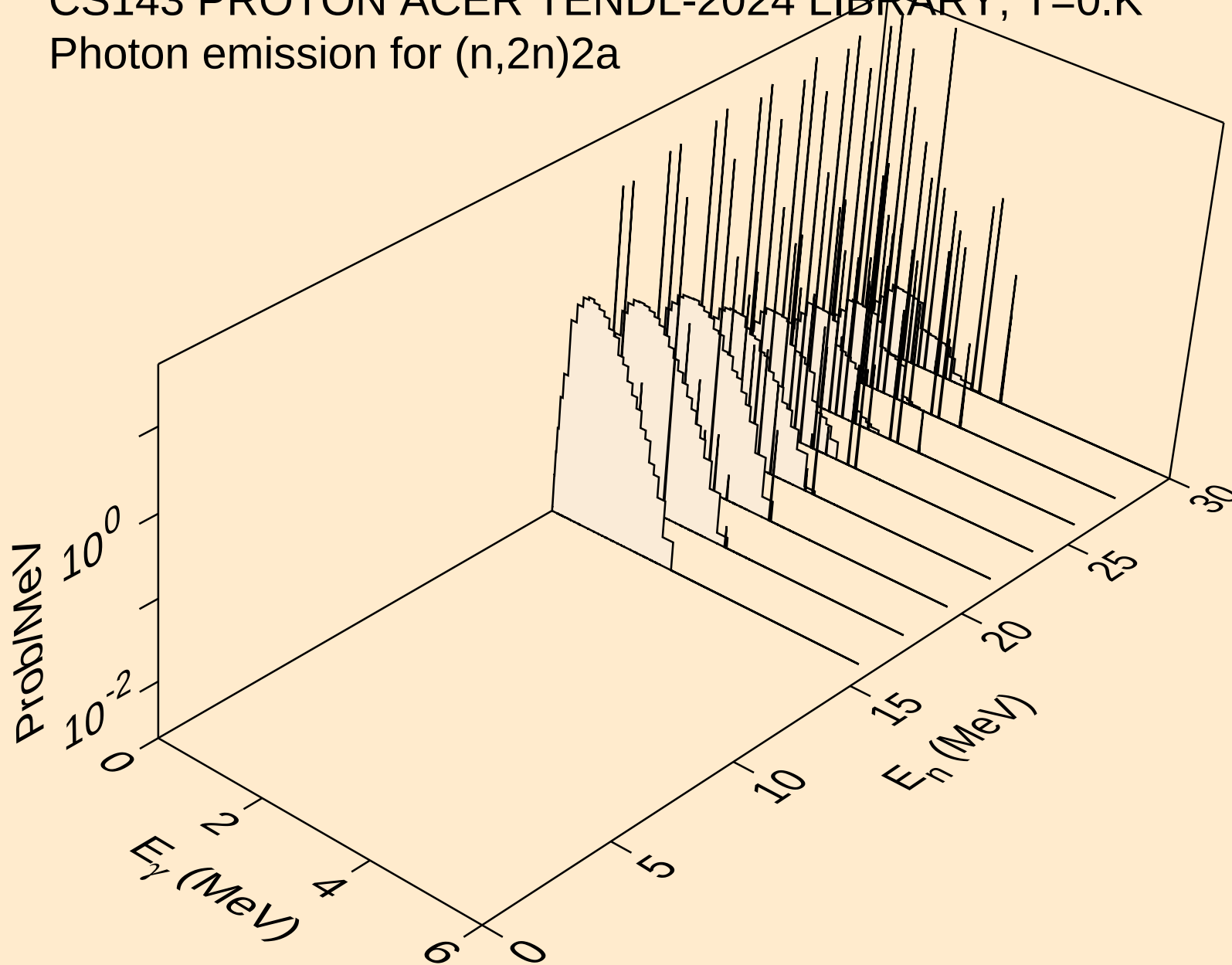
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

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



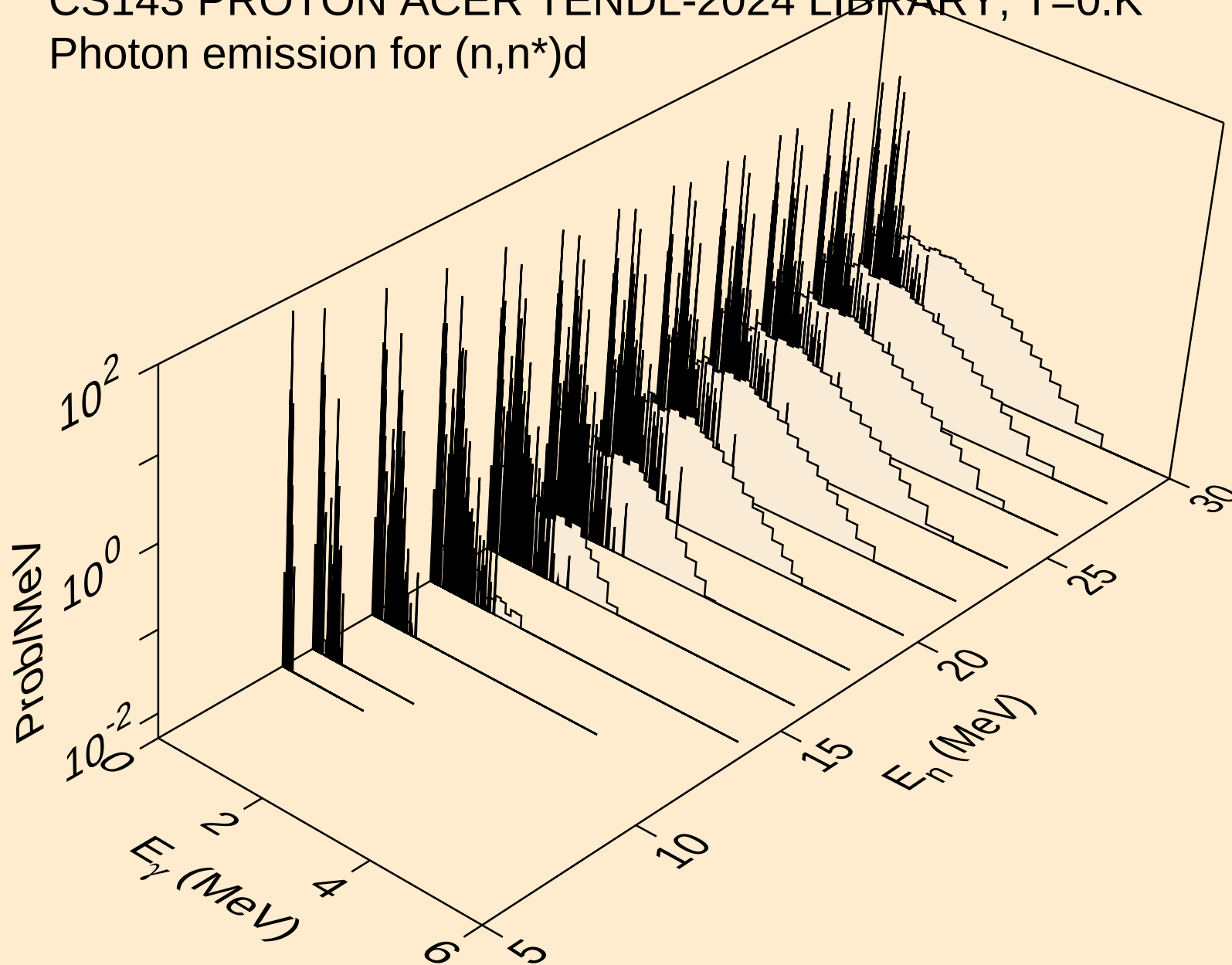
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,2n)2a



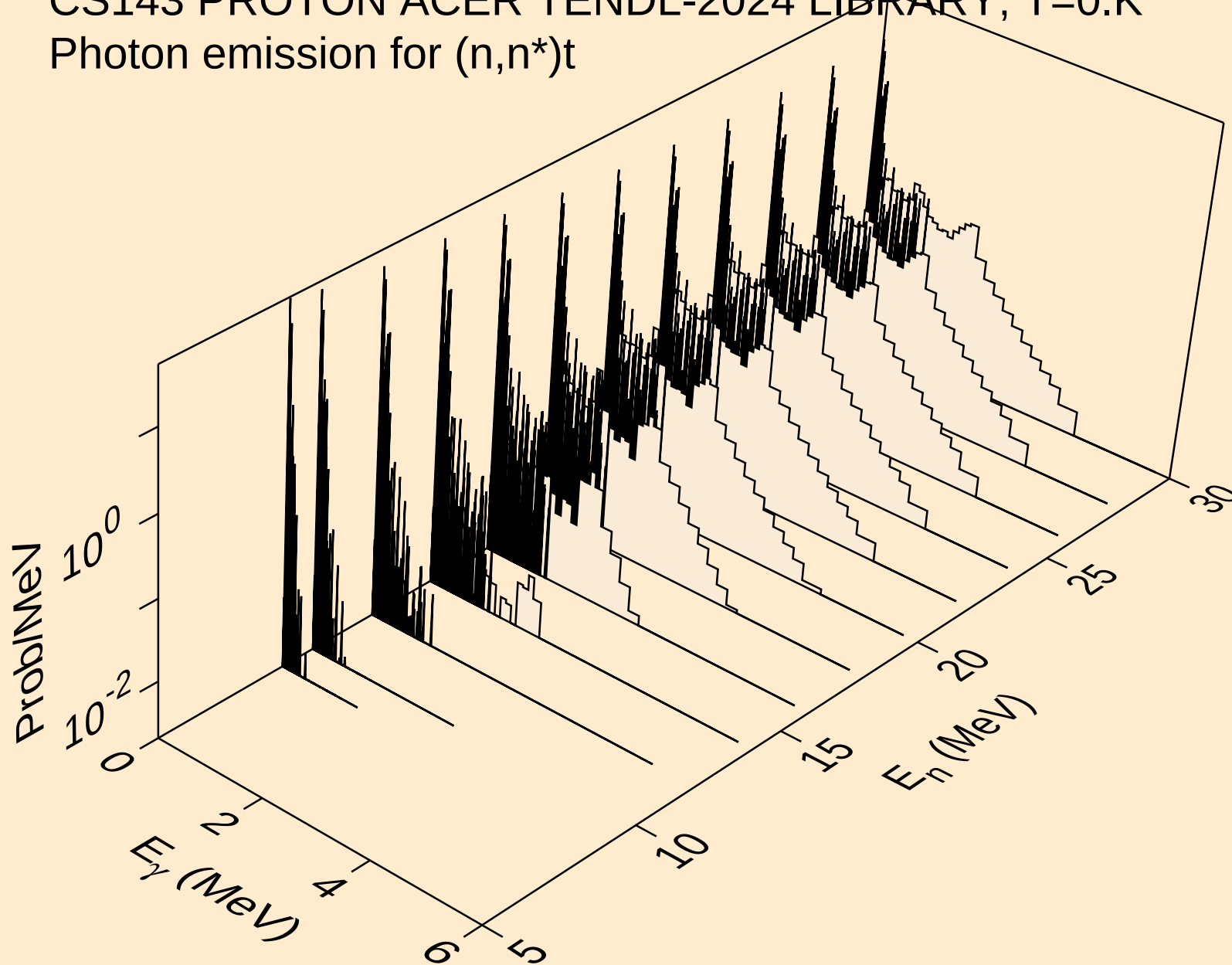
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)d



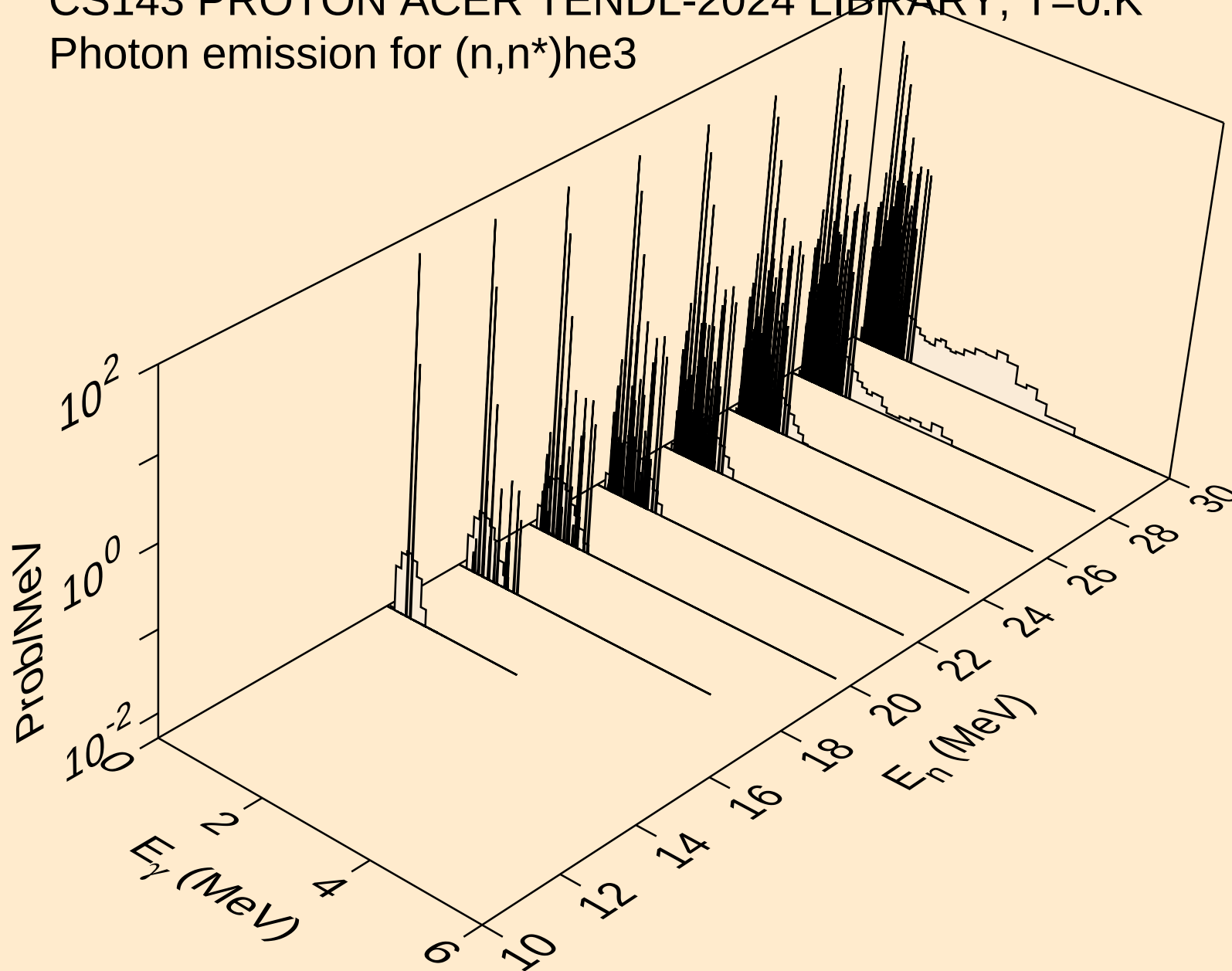
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

Photon emission for (n,n\*)t

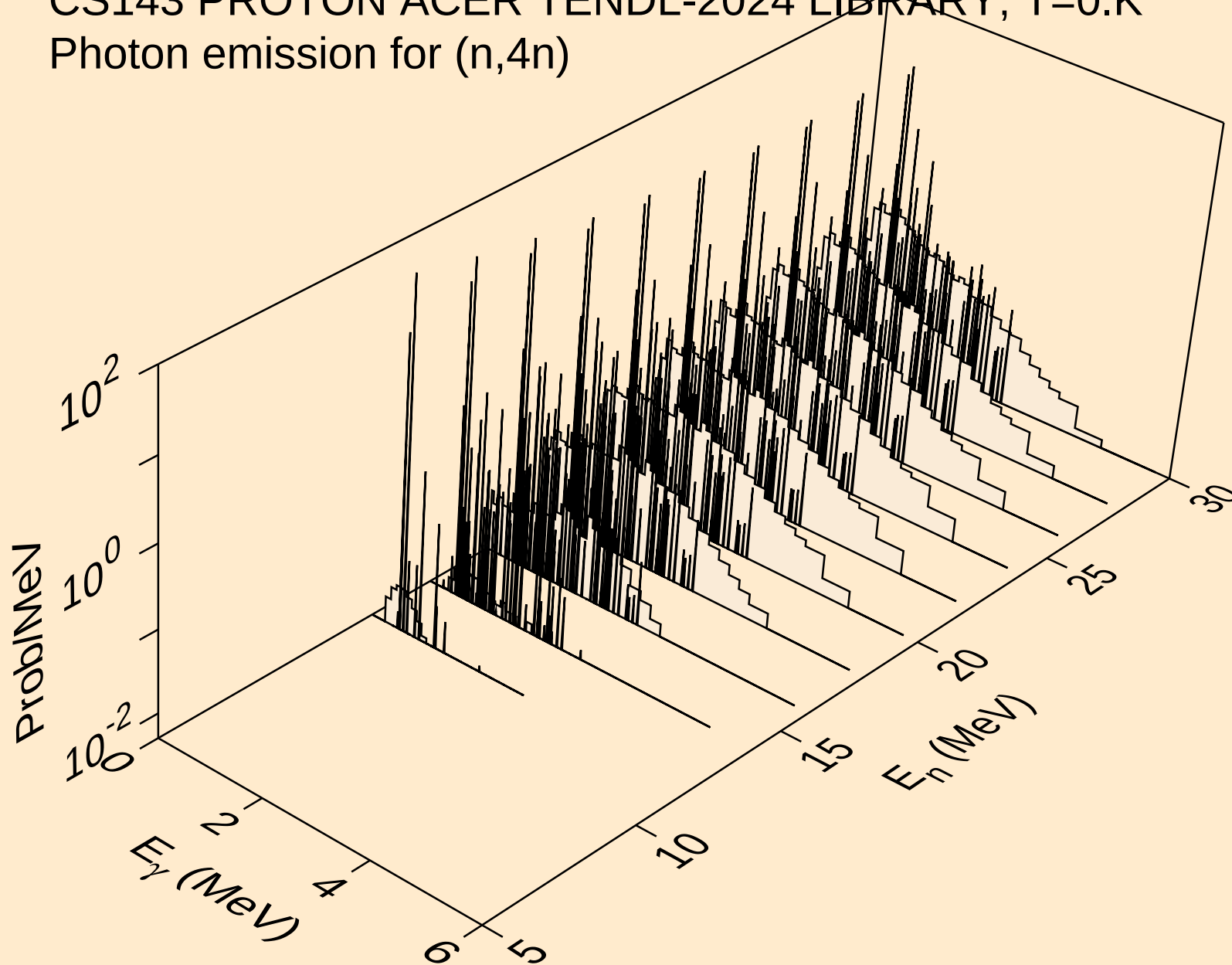


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

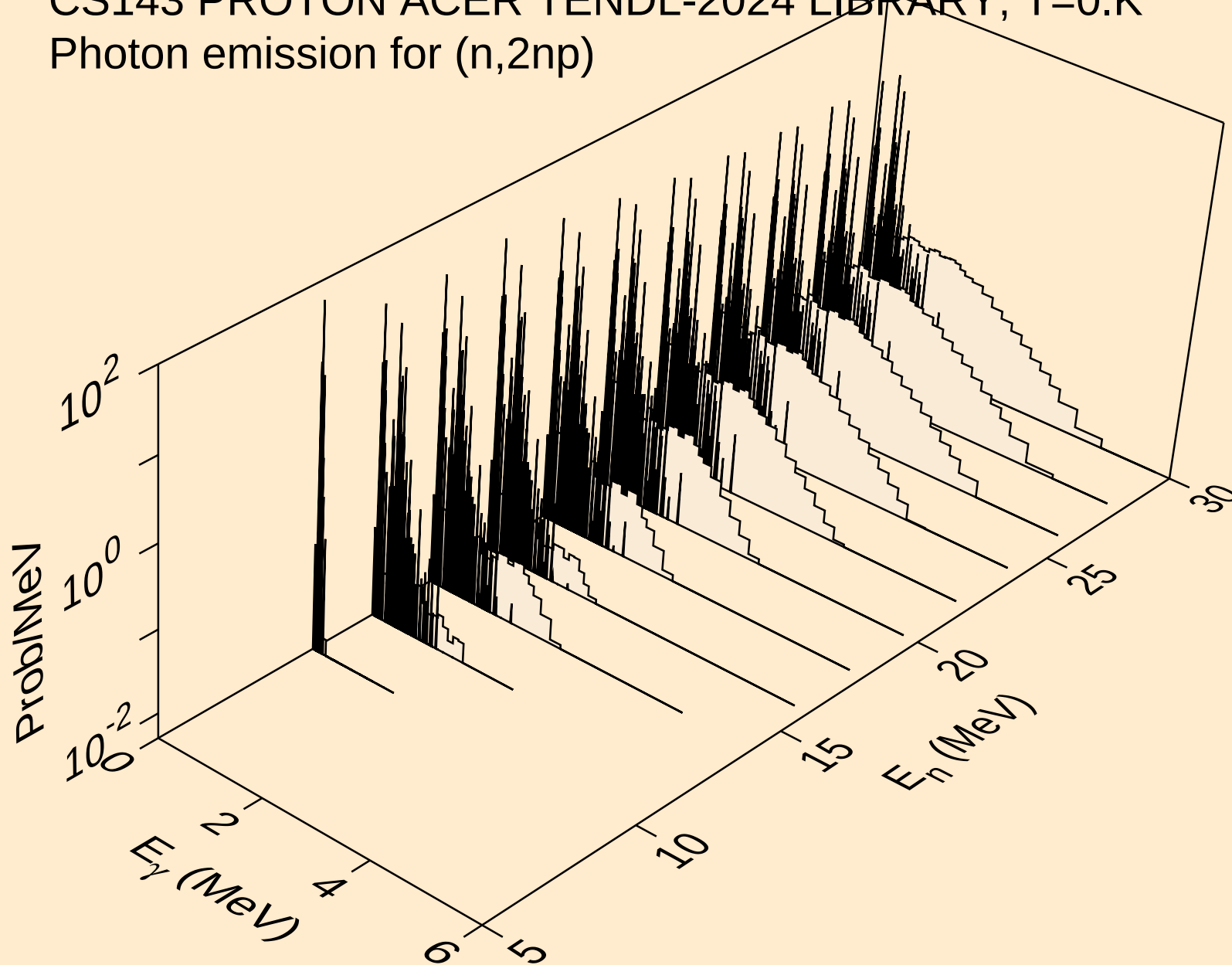
Photon emission for (n,n\*)he3



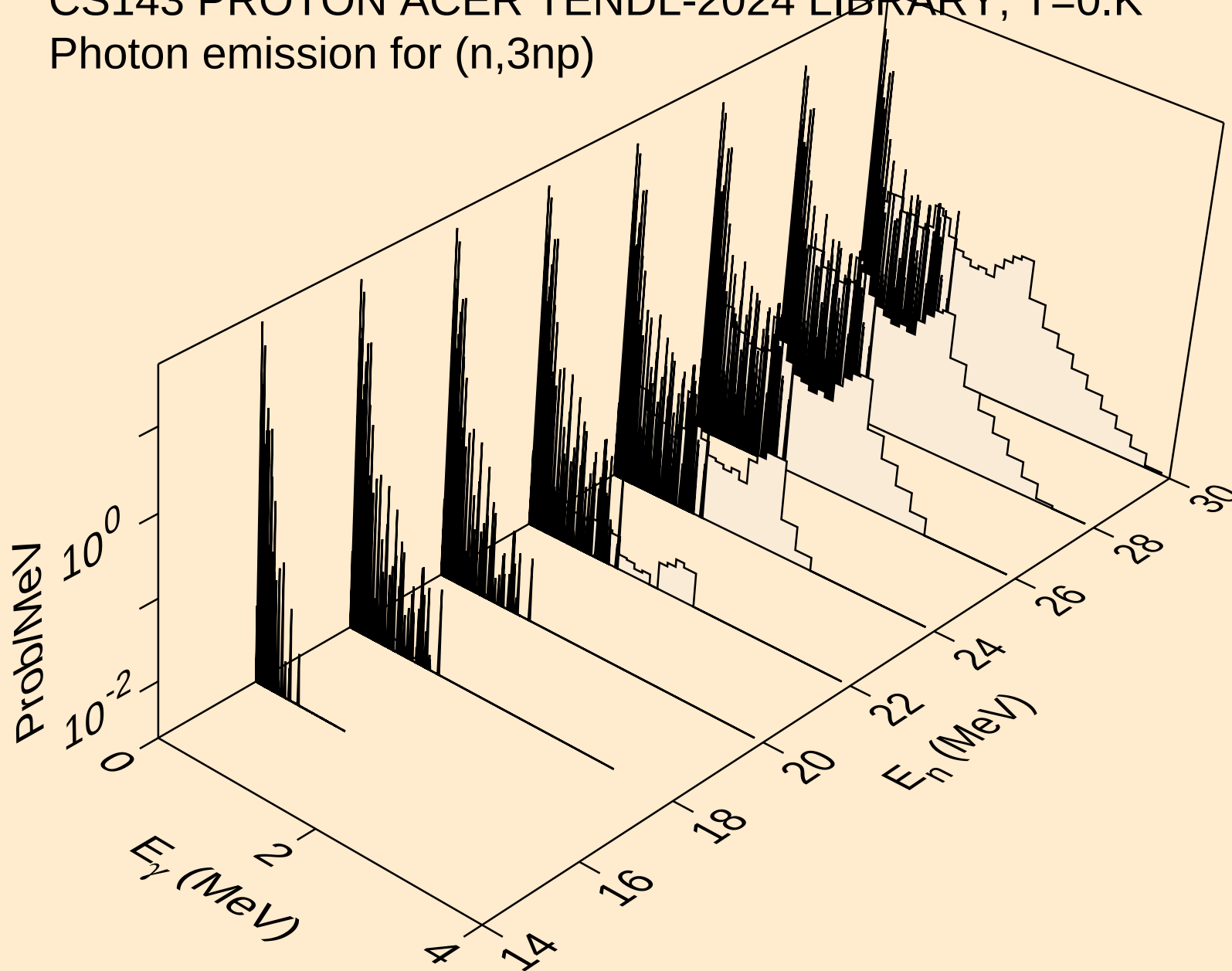
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,4n)



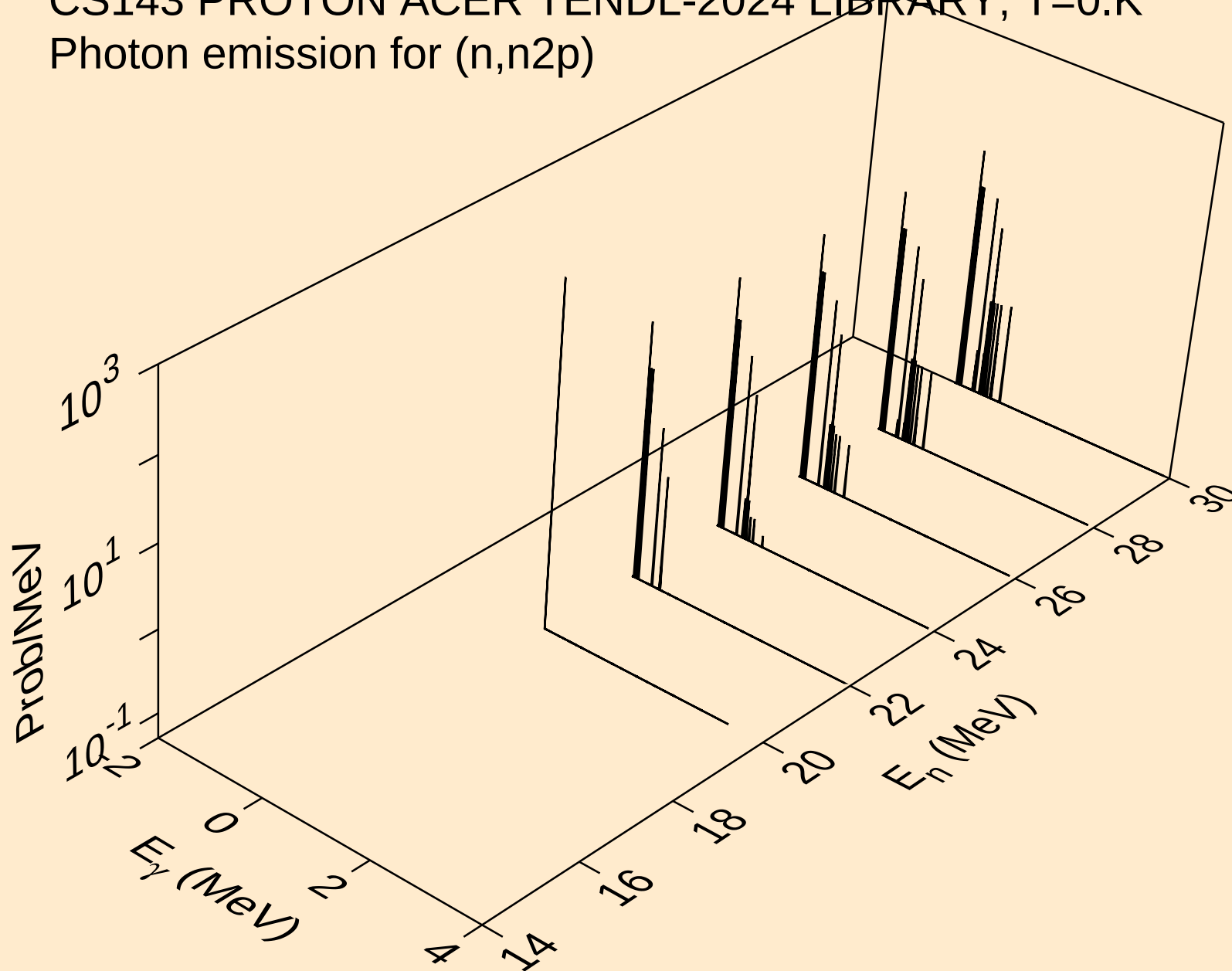
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



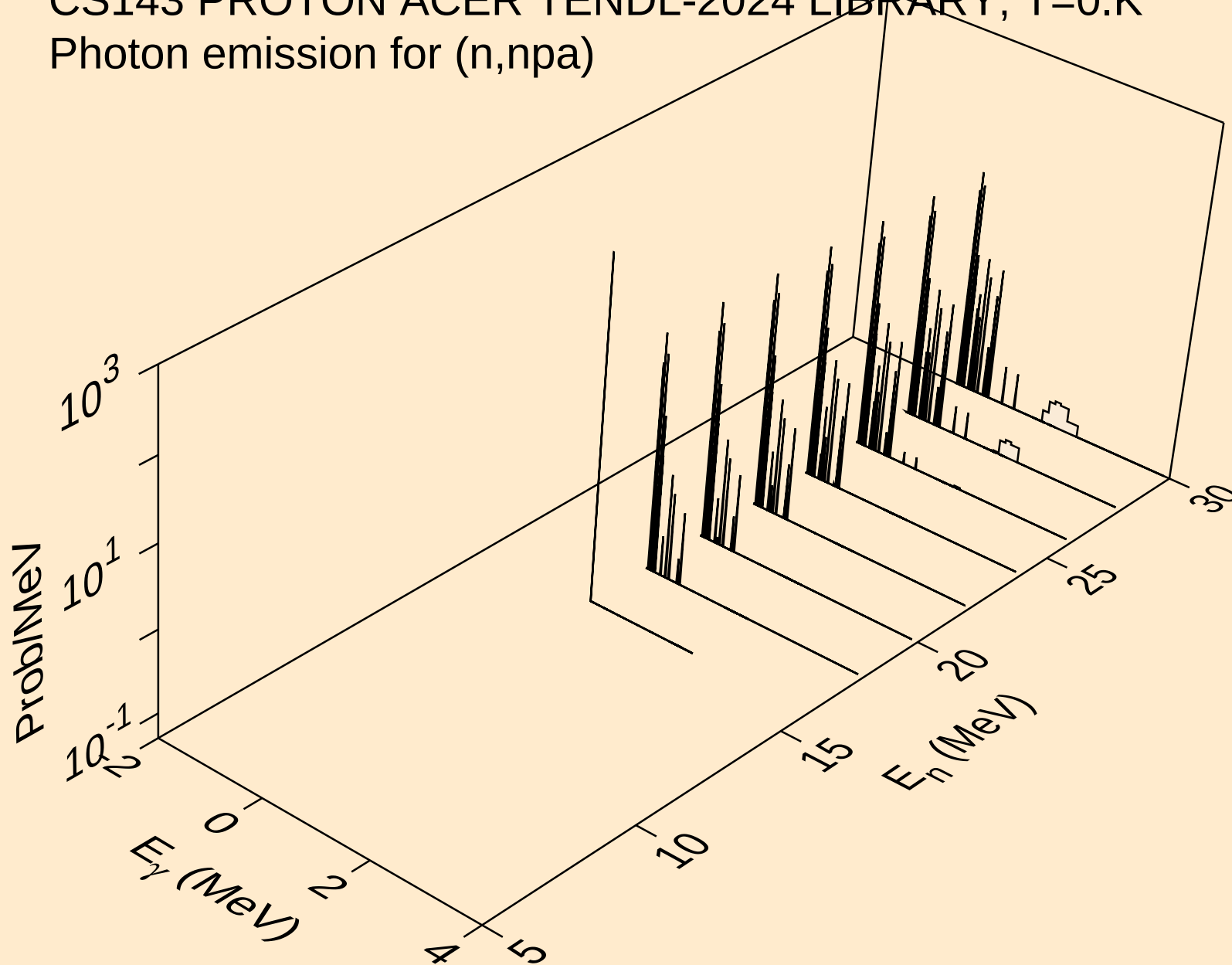
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)



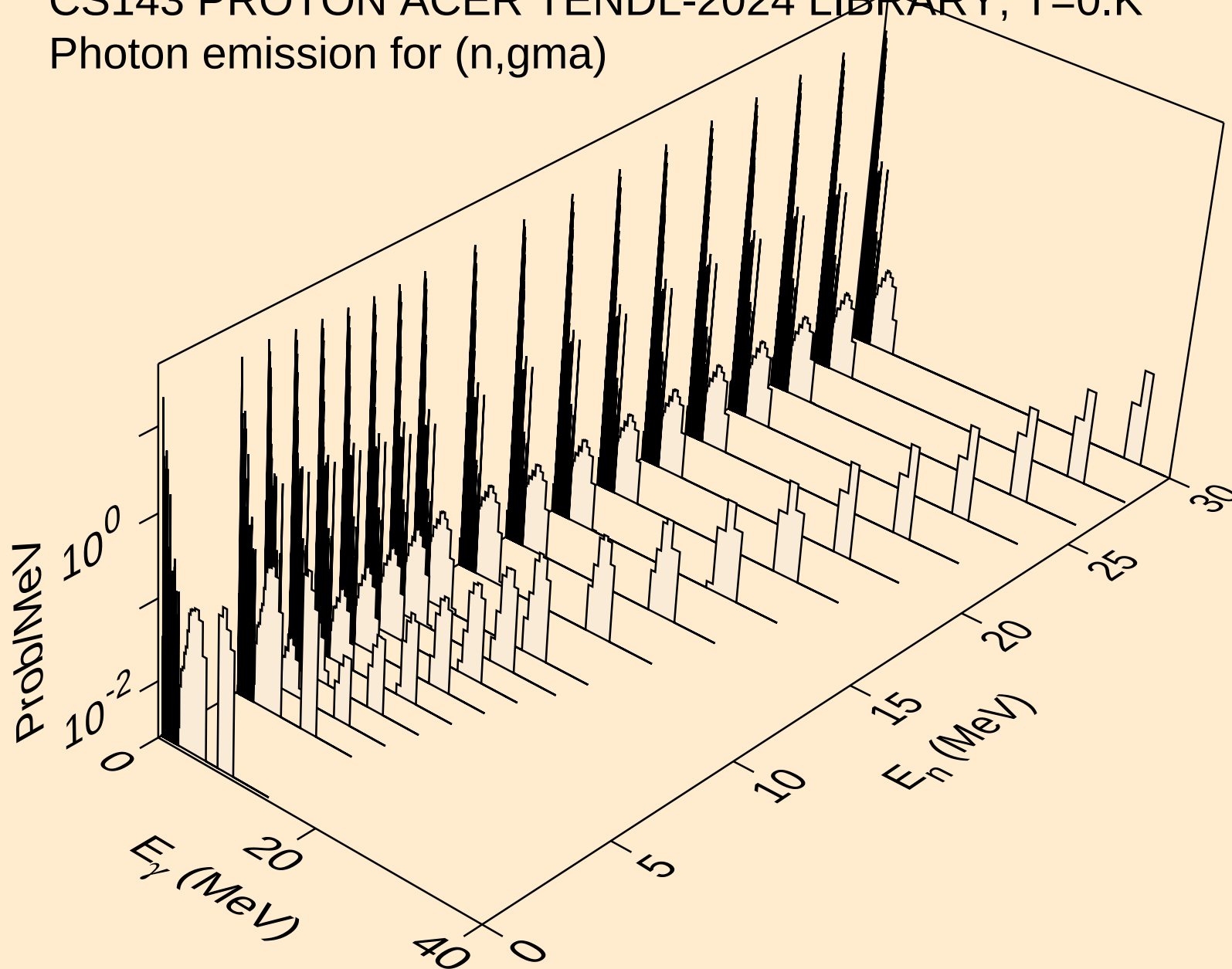
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



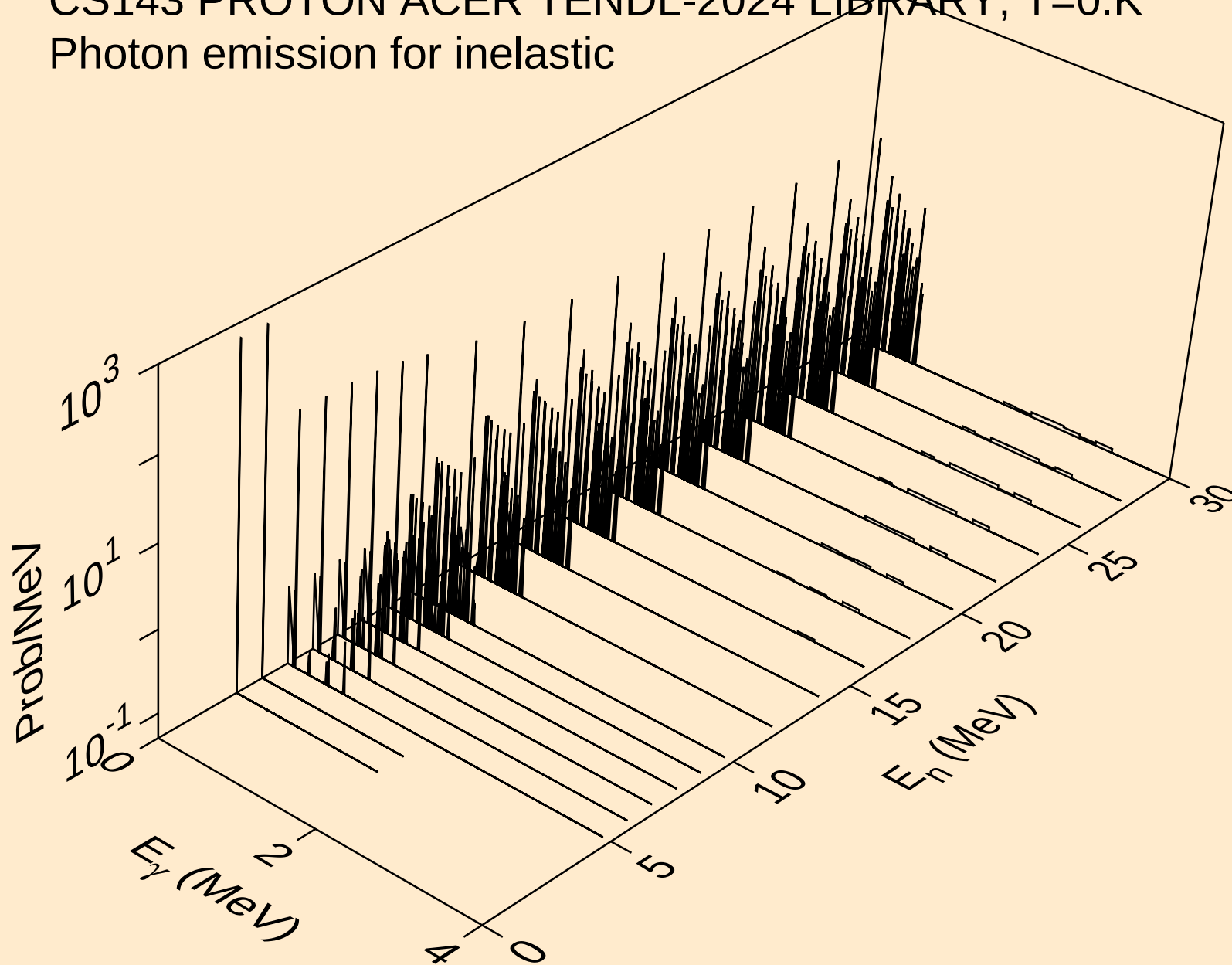
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



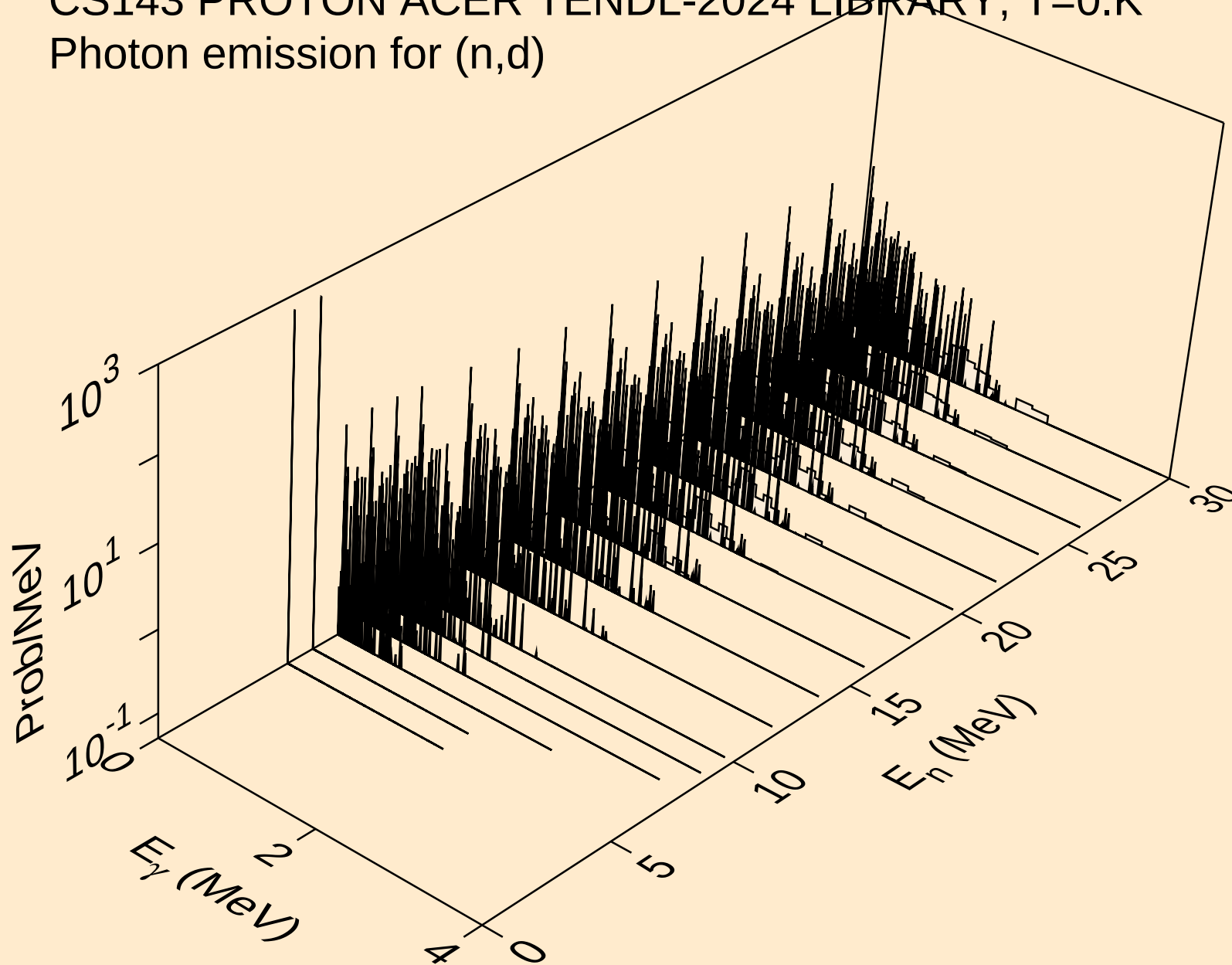
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



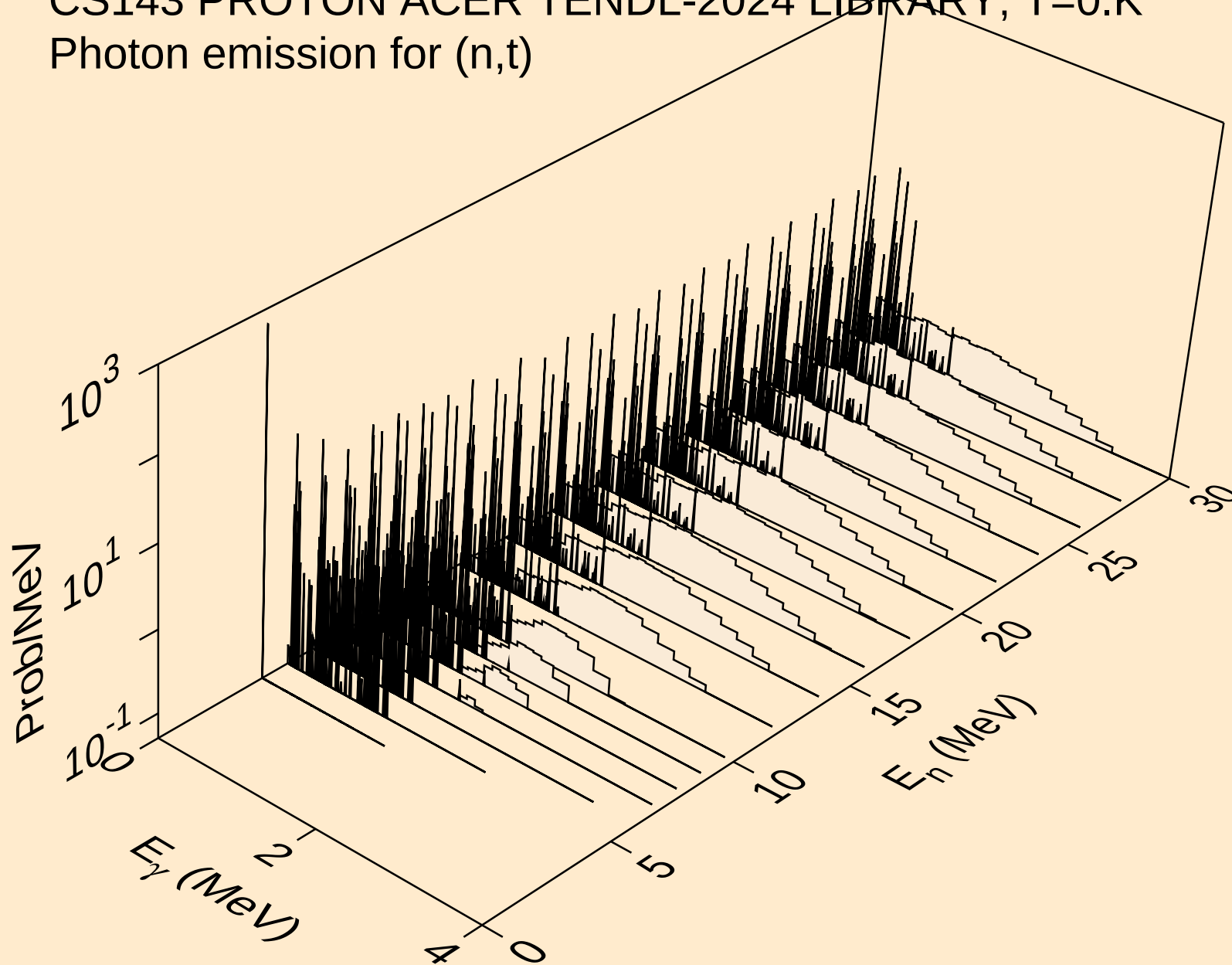
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for inelastic



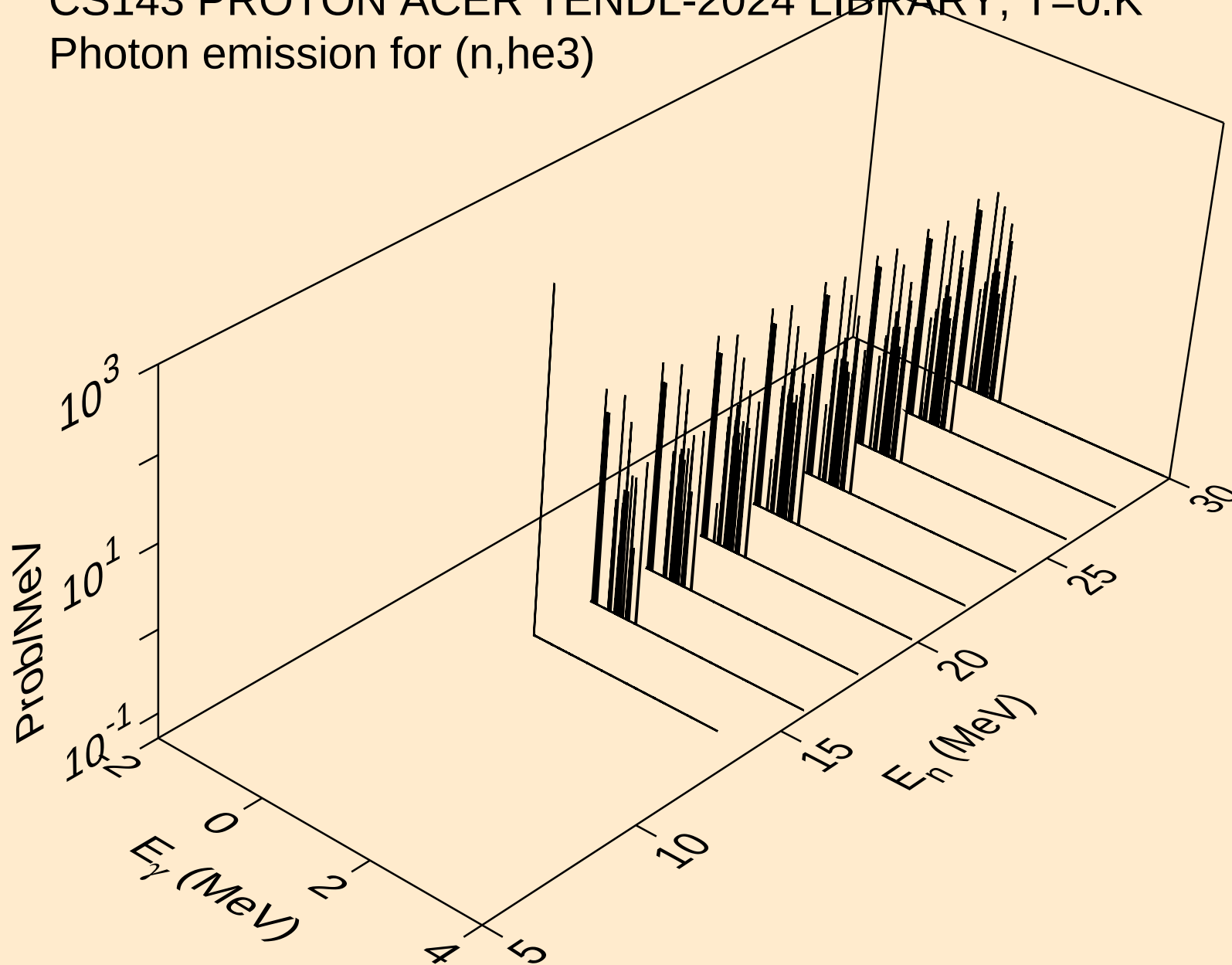
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



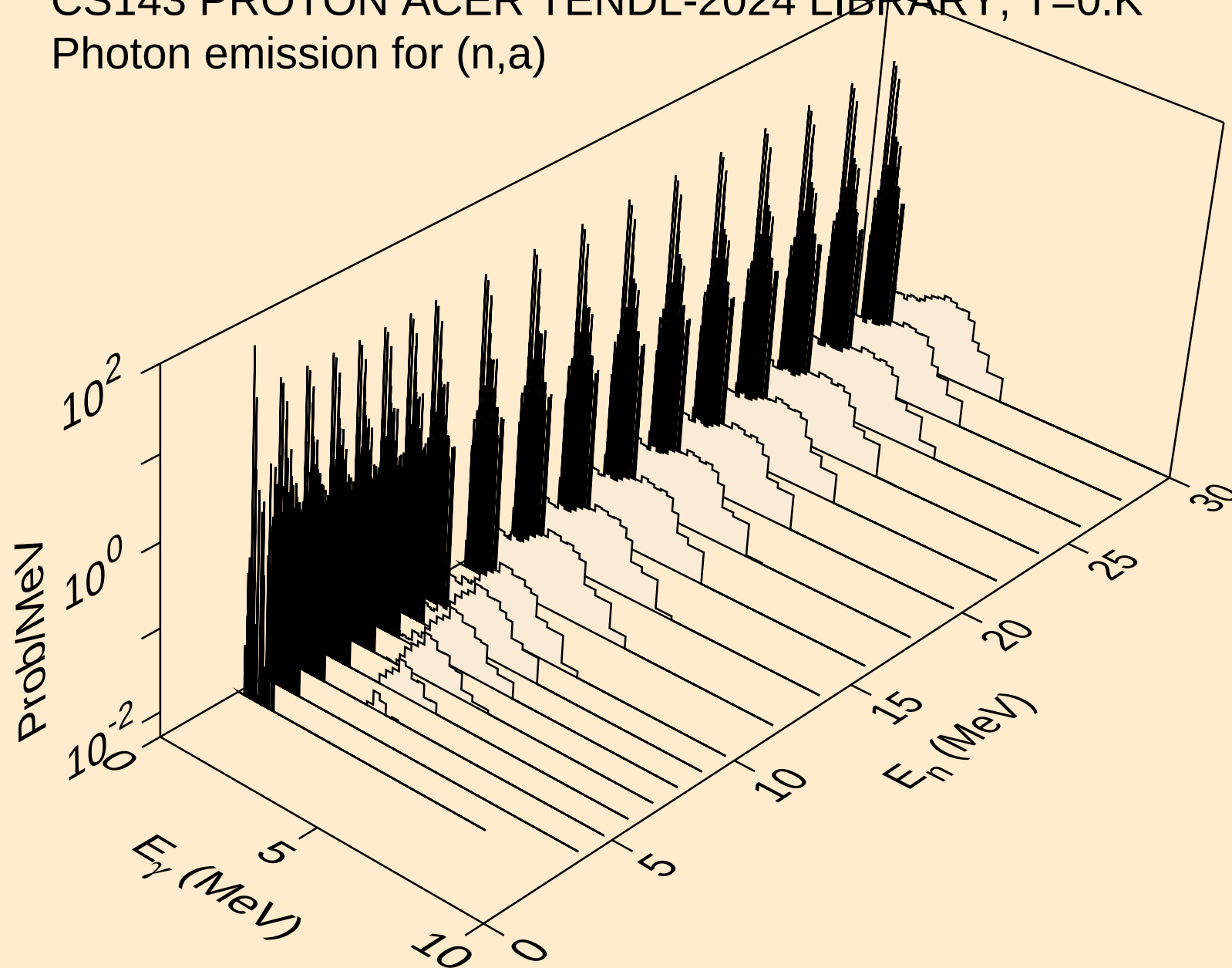
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)



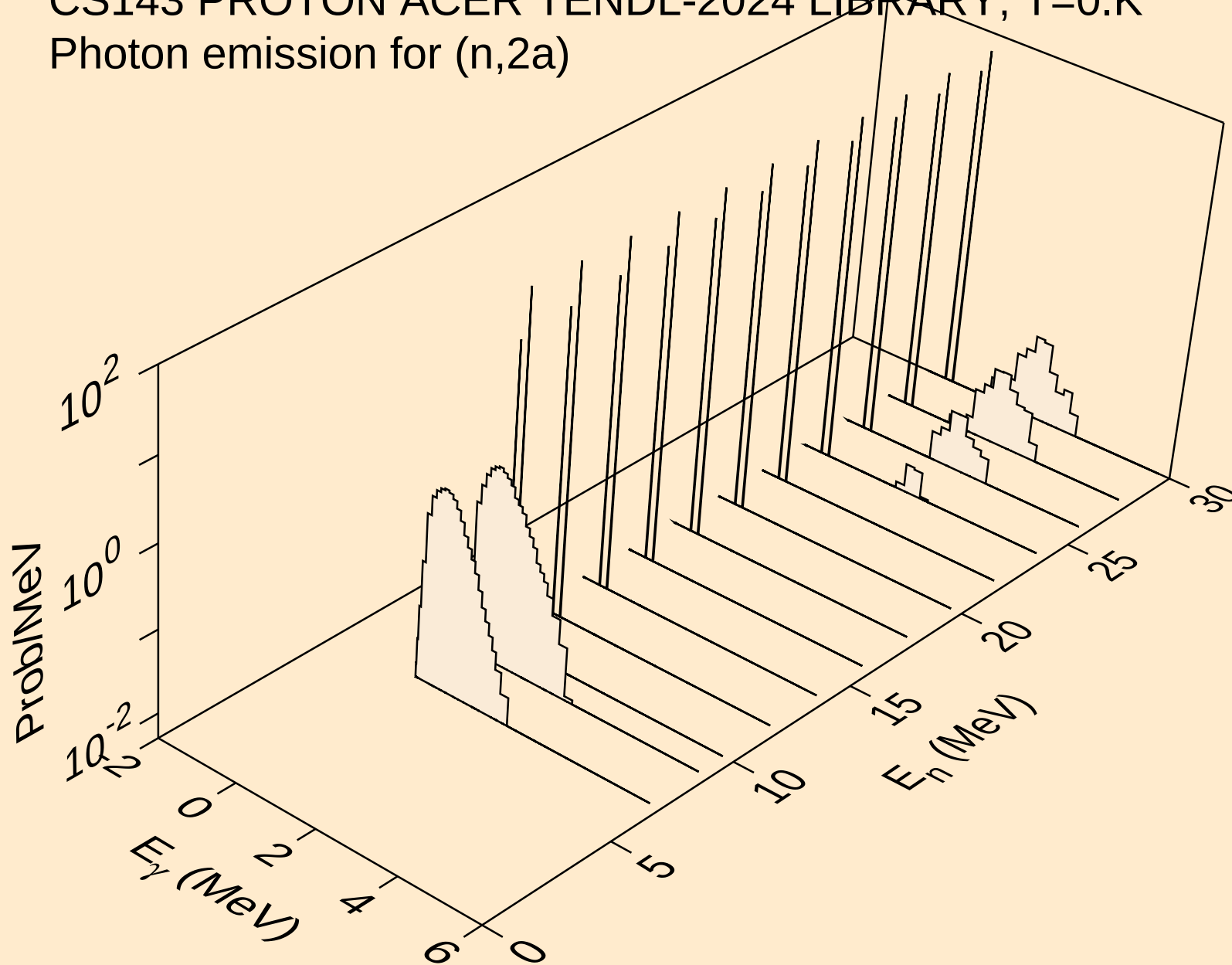
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,he3)



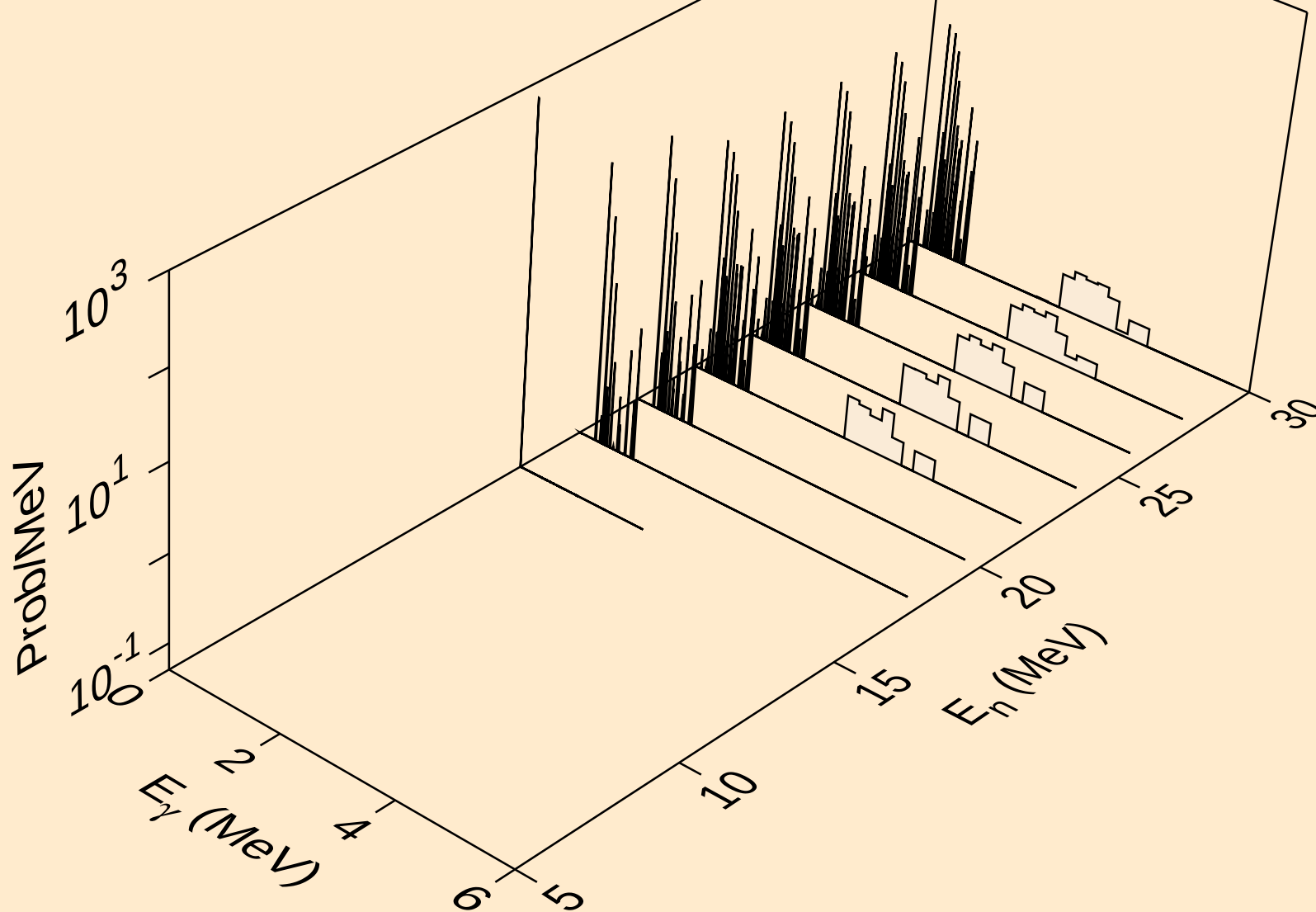
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



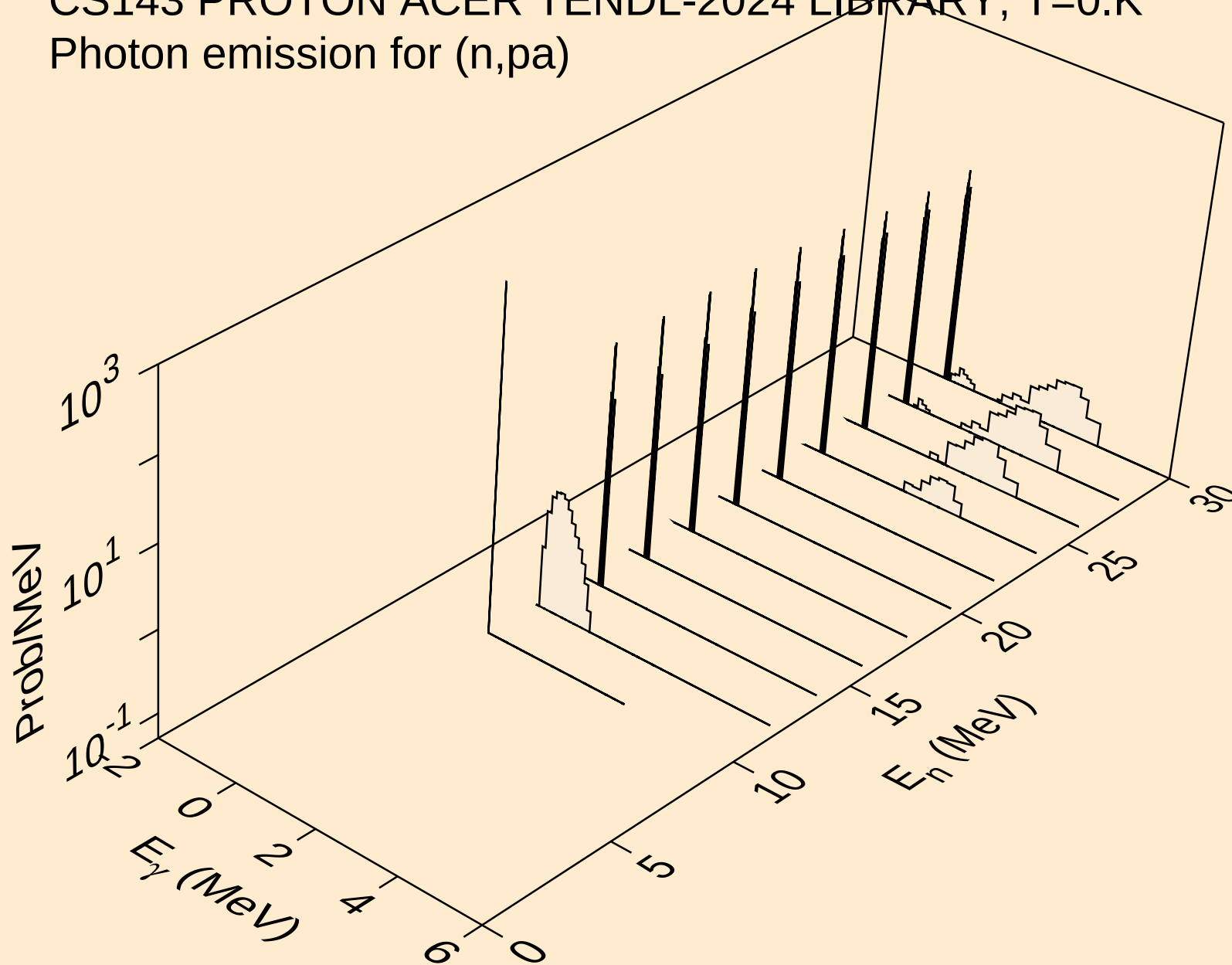
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



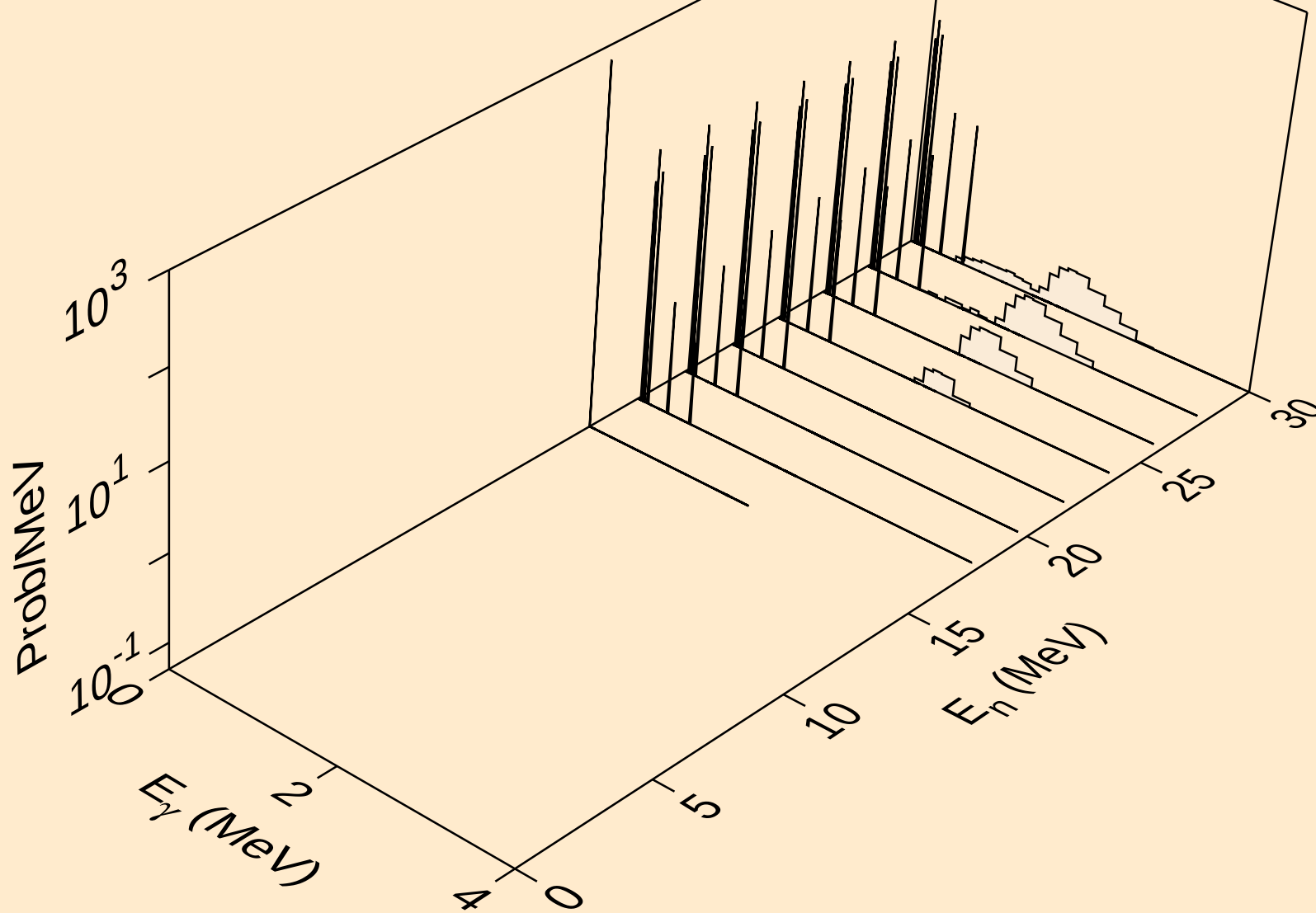
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)

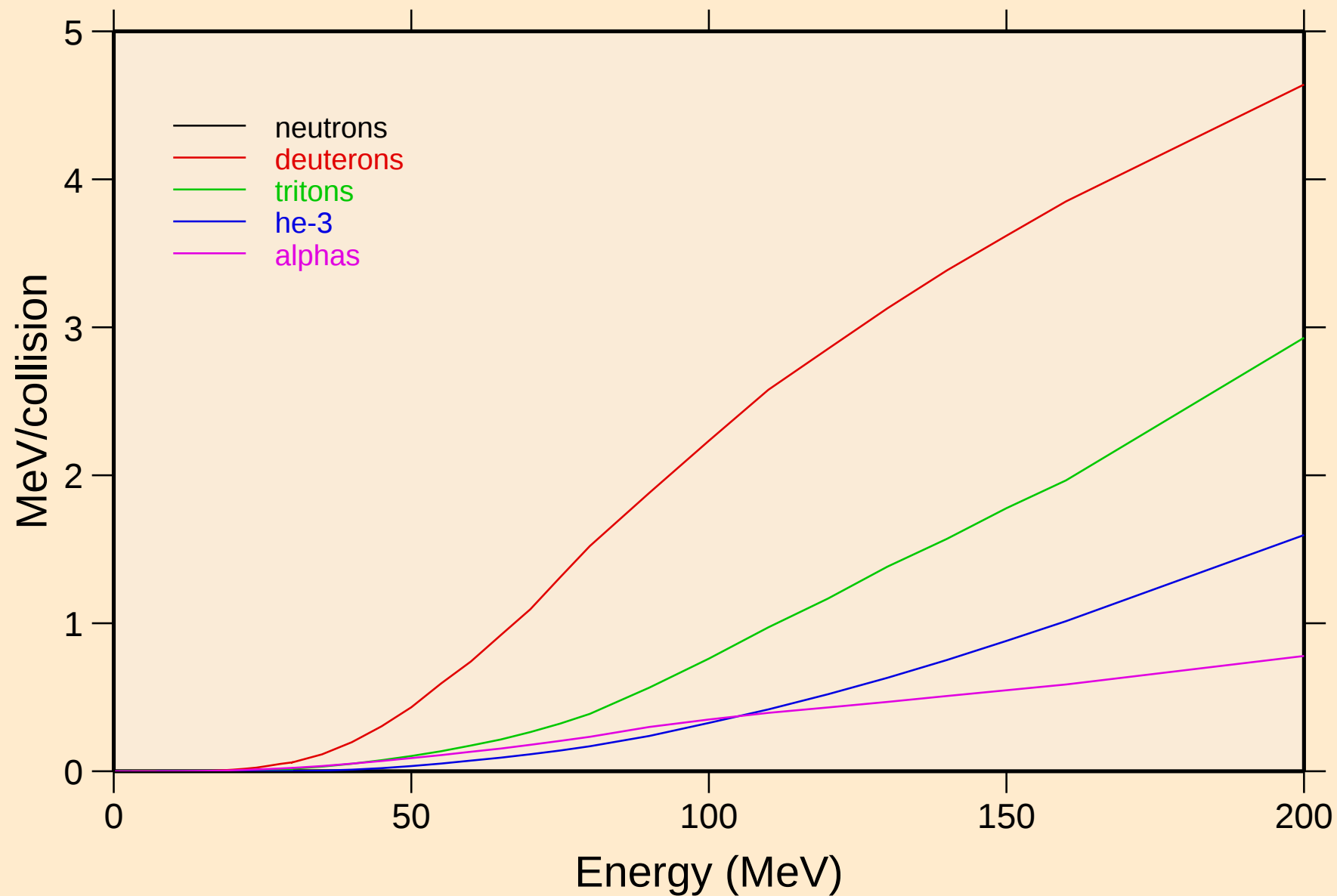


CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)



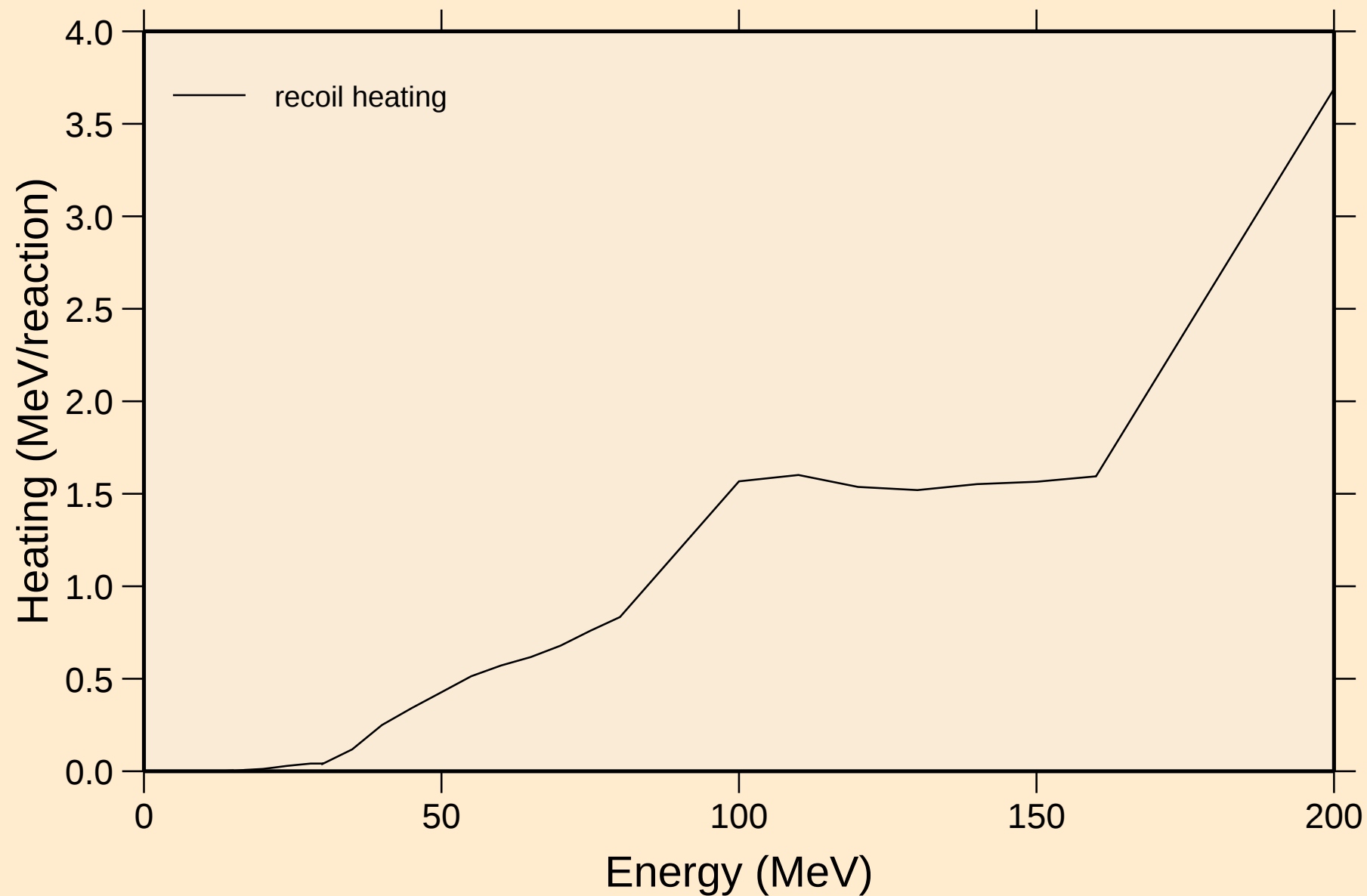
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Particle heating contributions



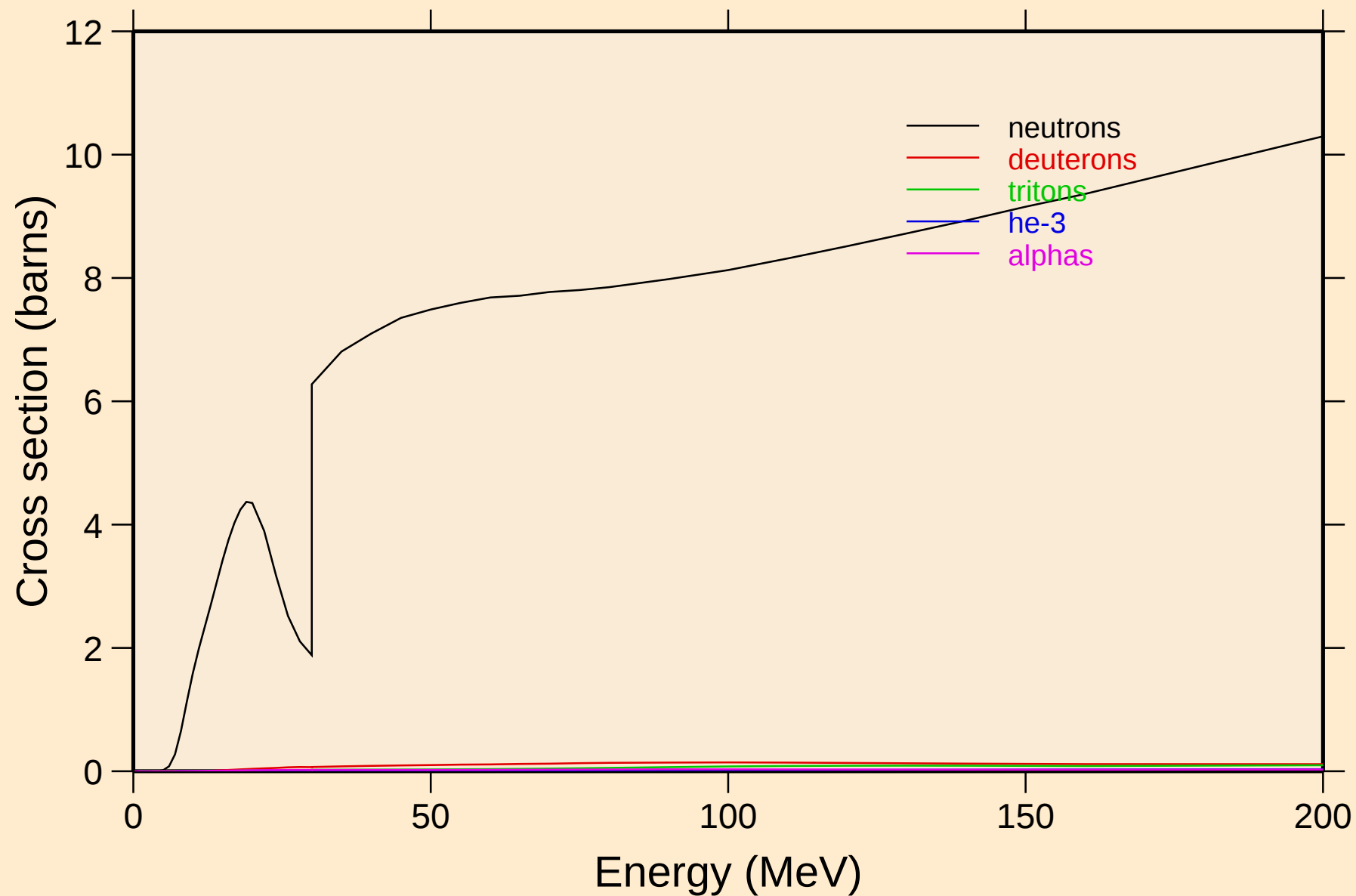
# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

## Recoil Heating

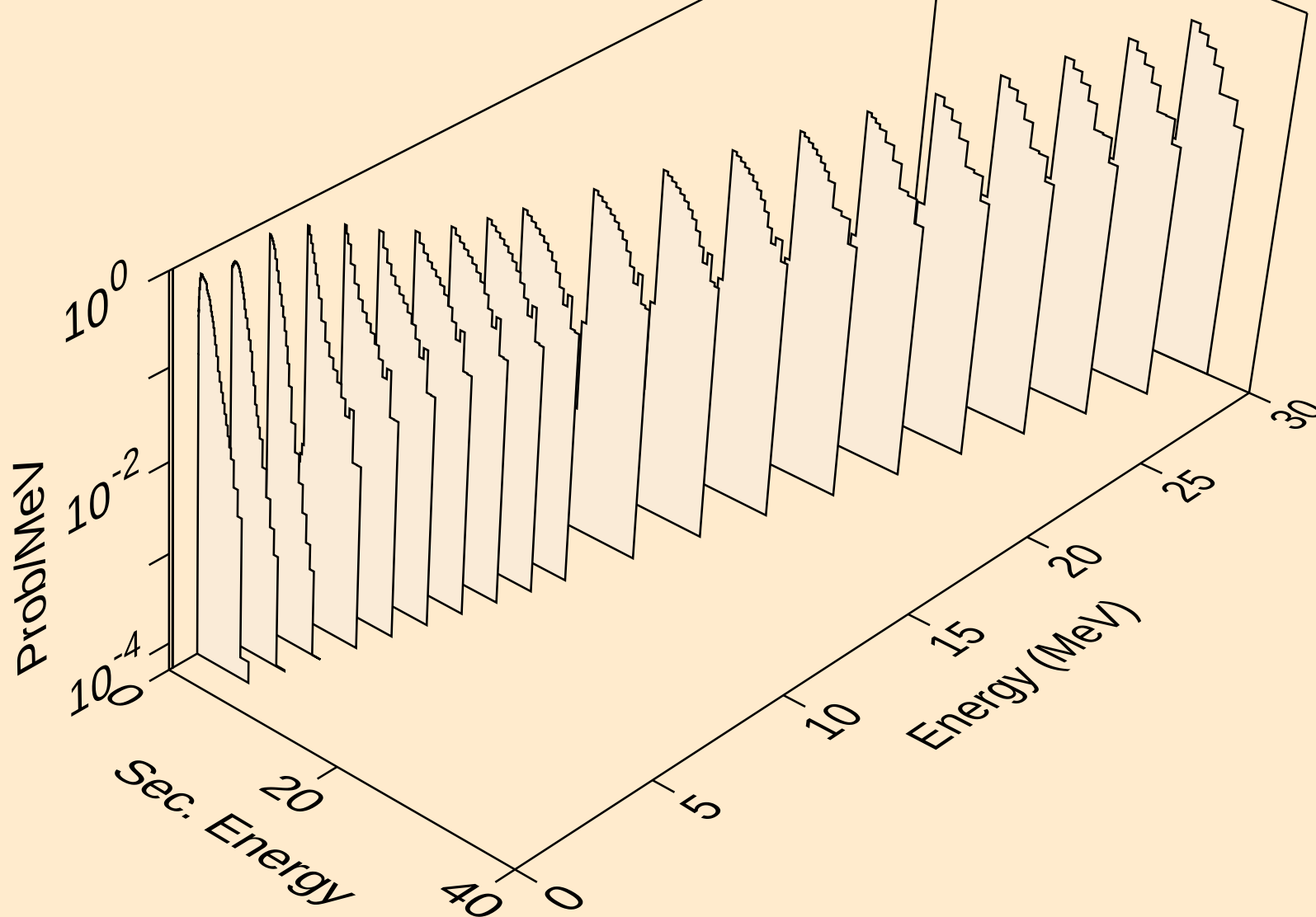


# CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K

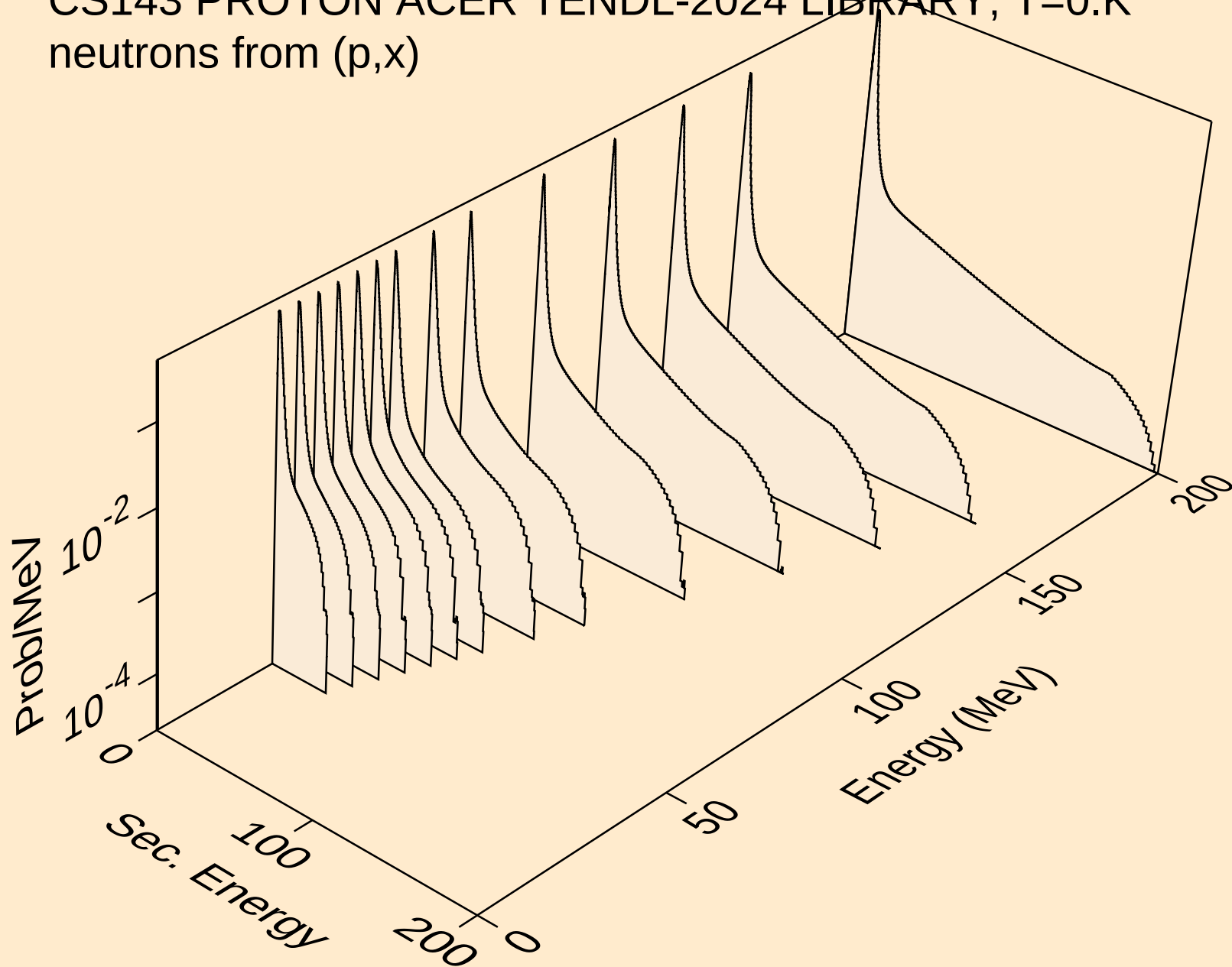
Particle production cross sections



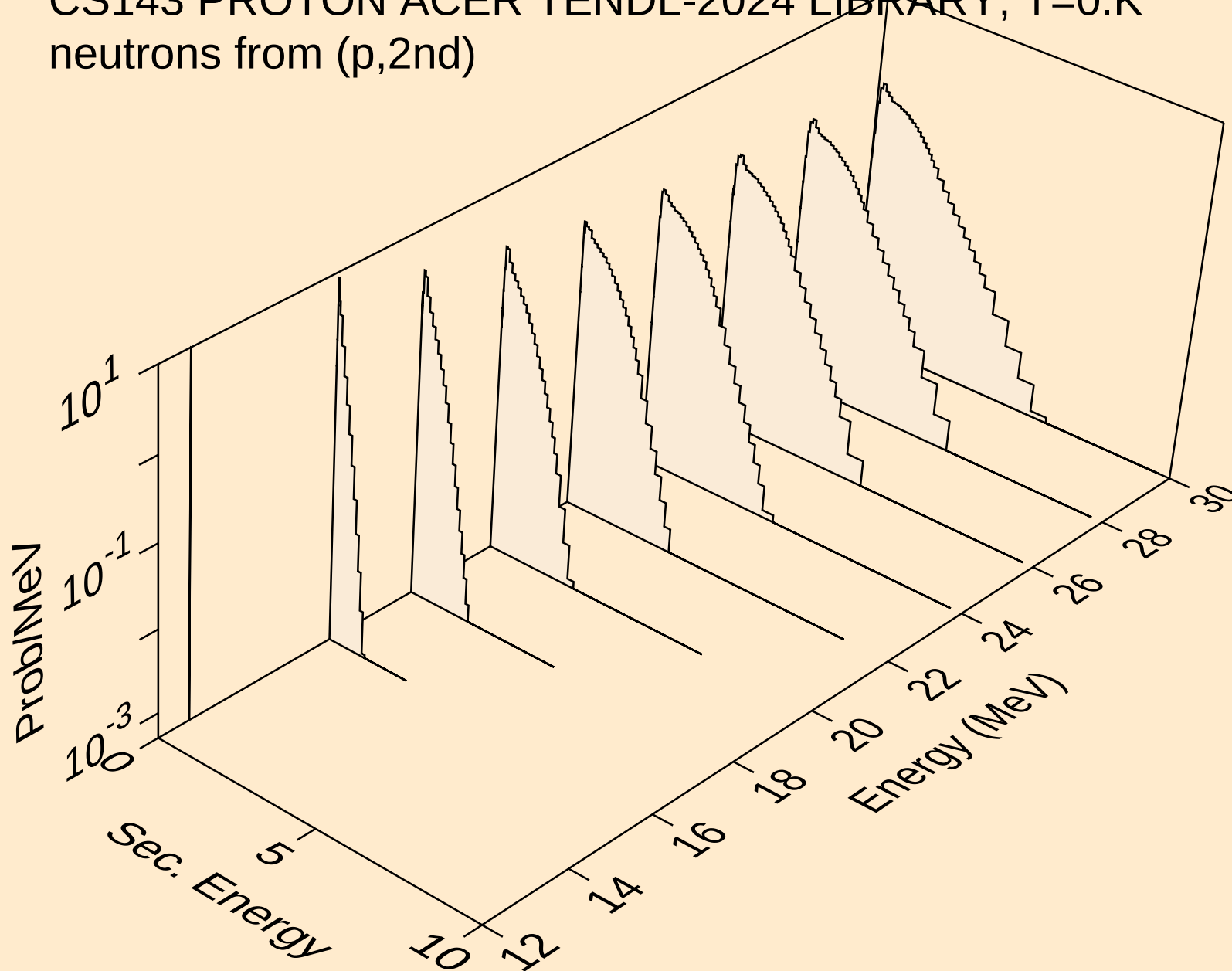
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n)



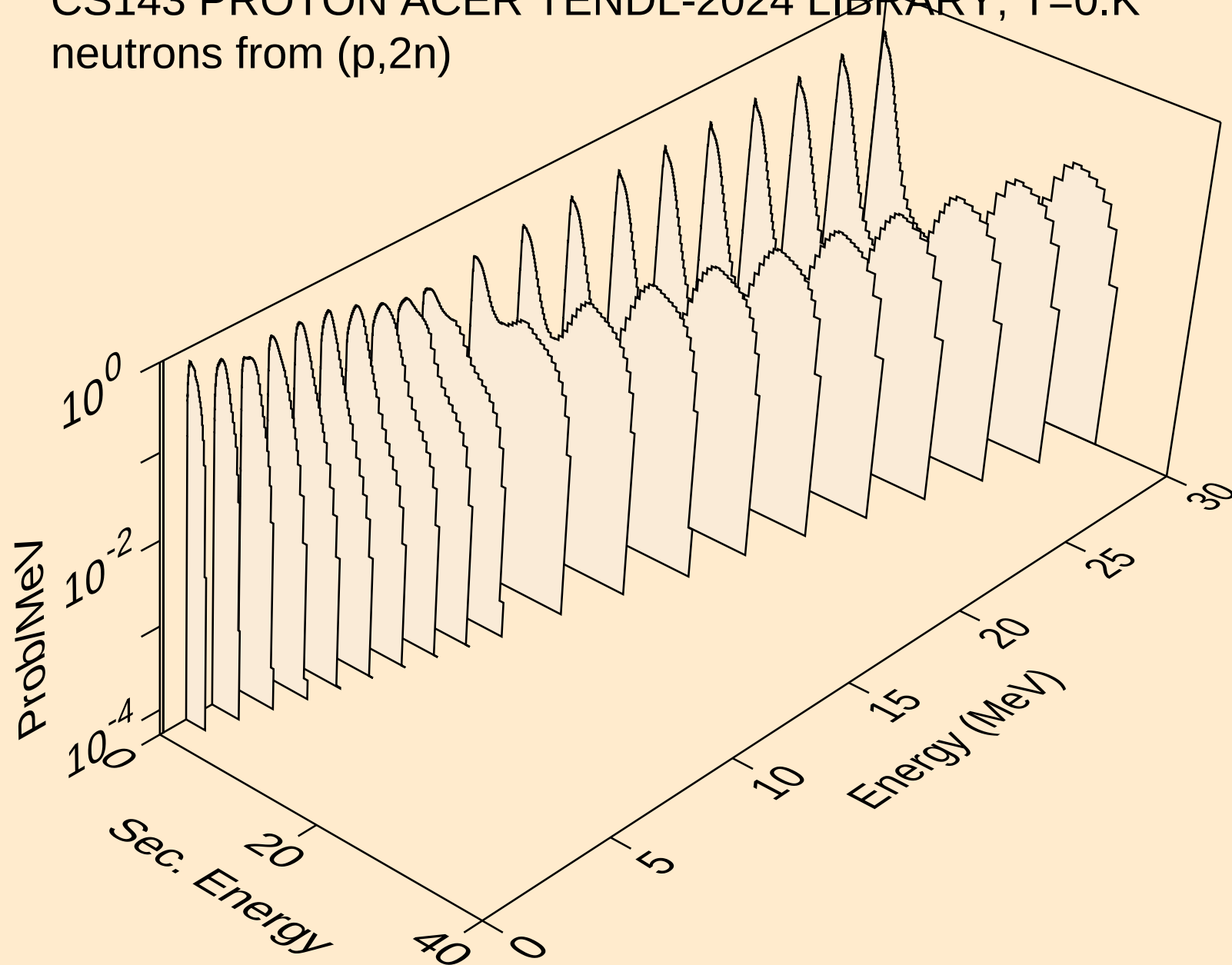
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,x)



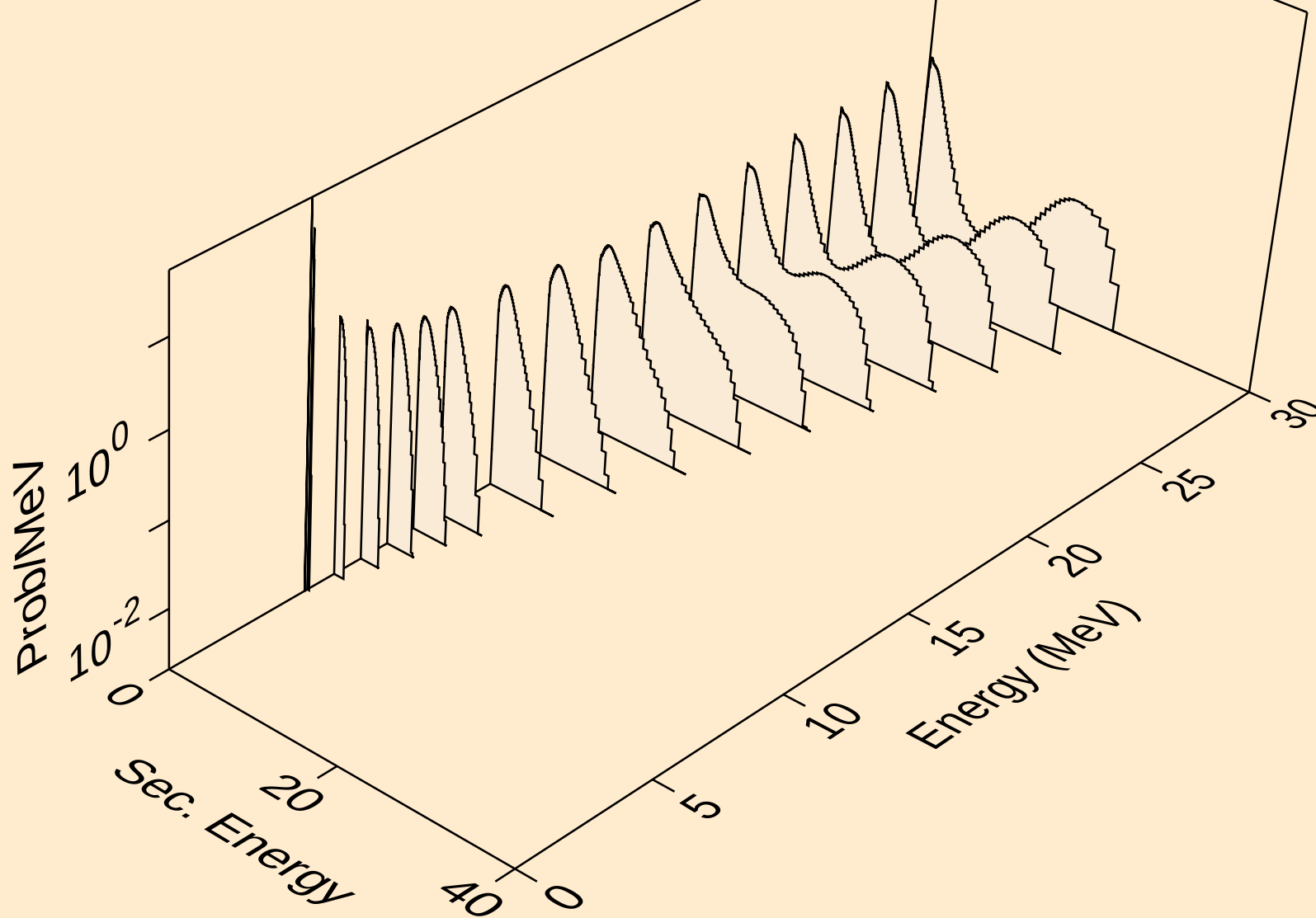
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,2nd)



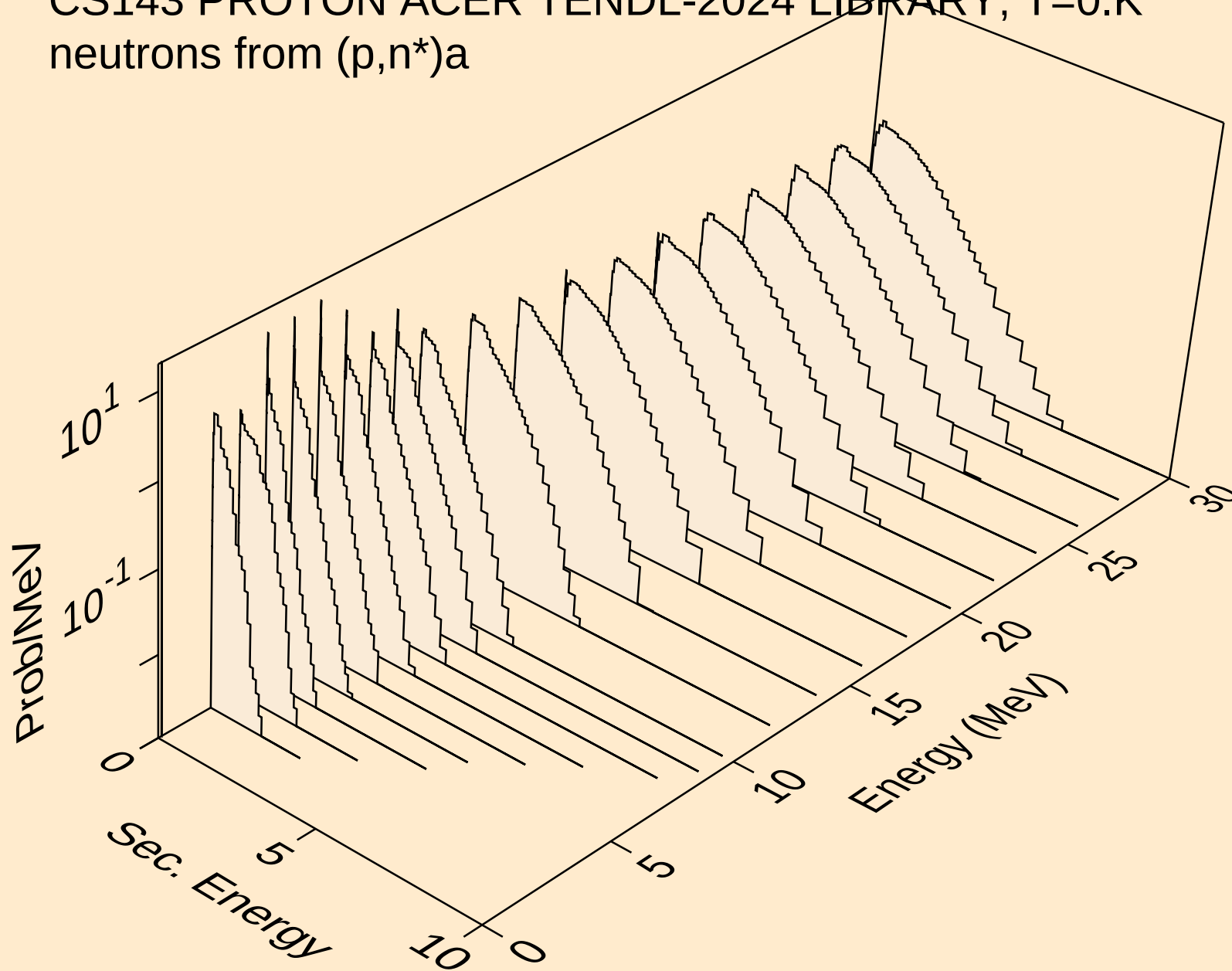
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,2n)



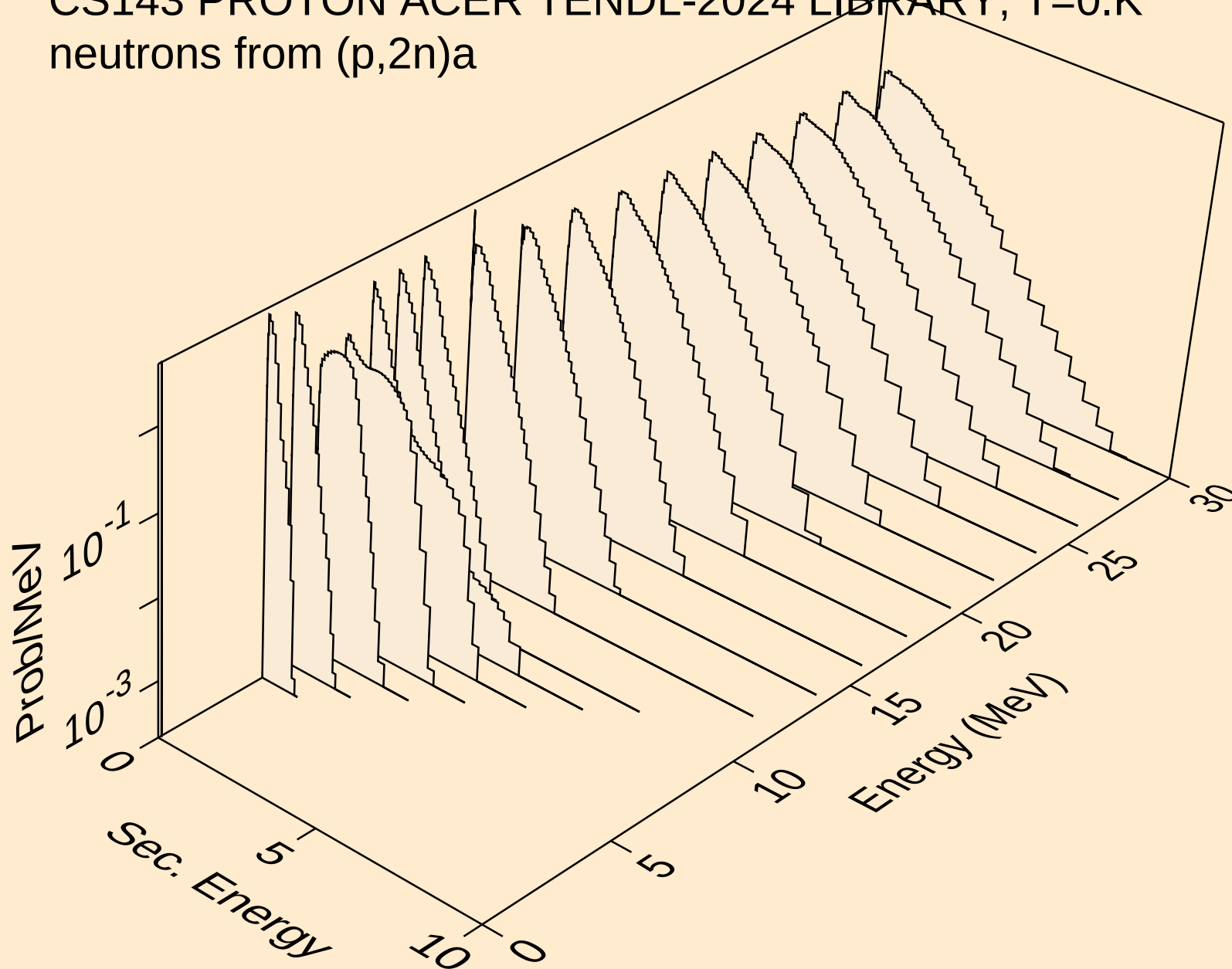
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,3n)



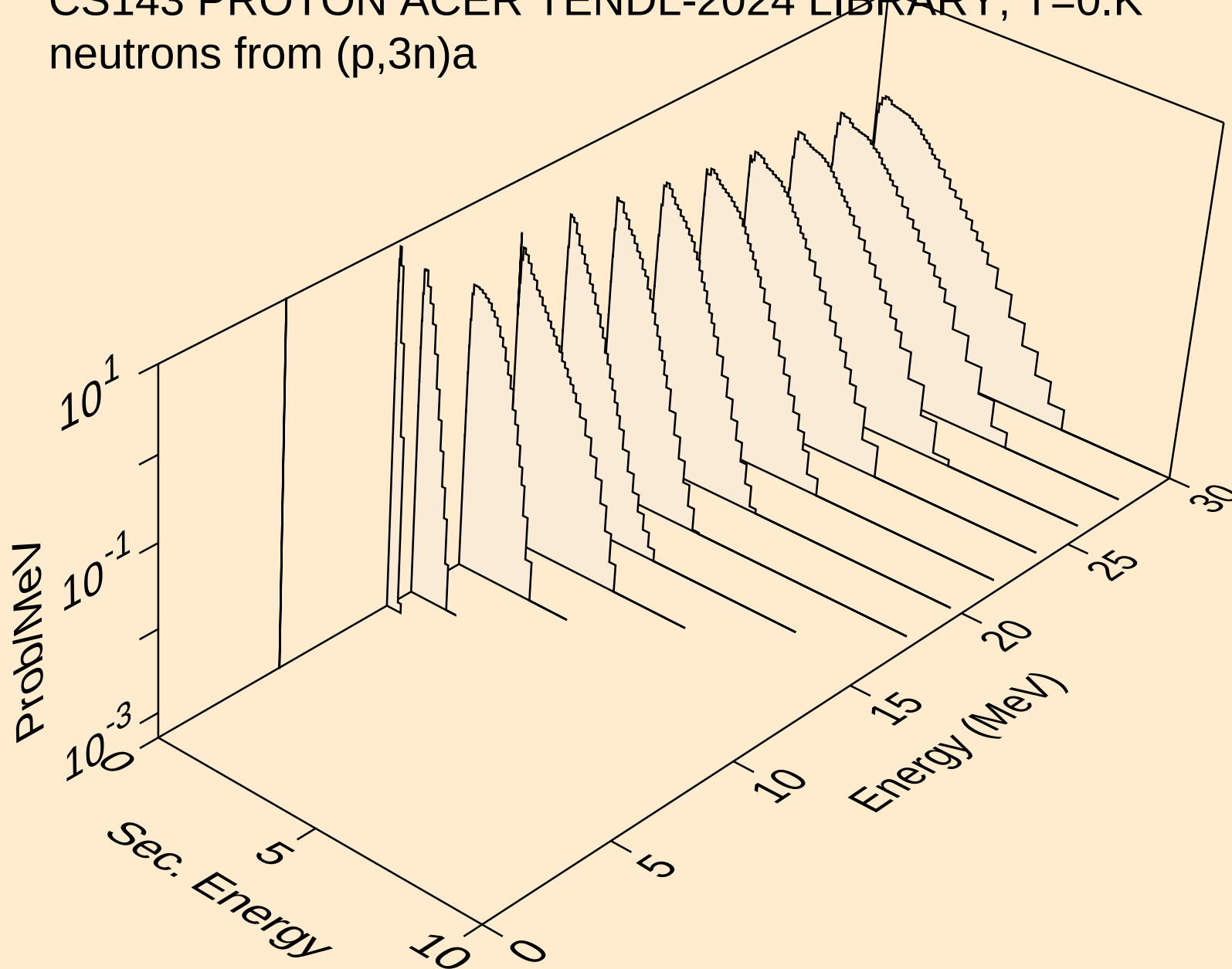
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)a



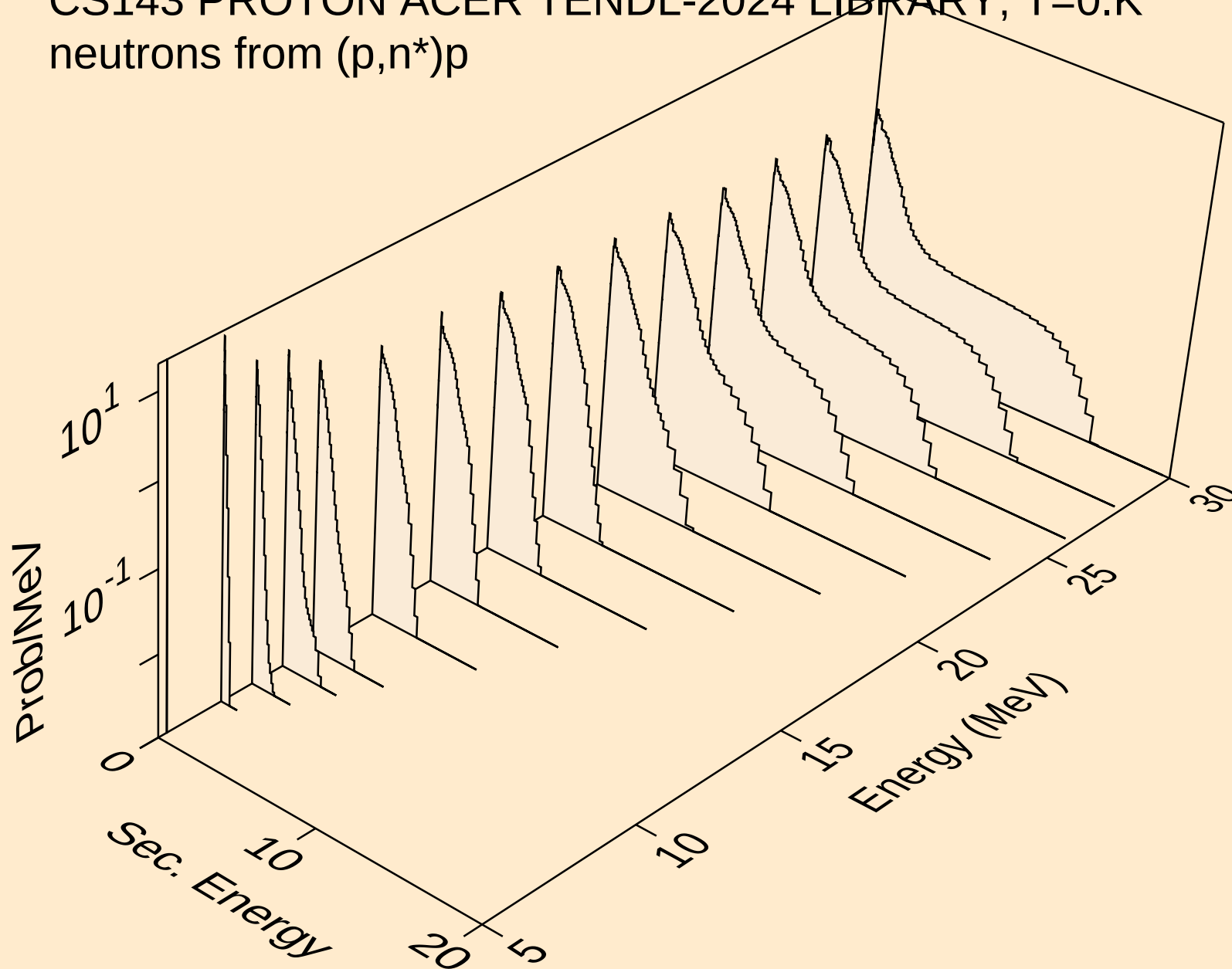
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,2n)a



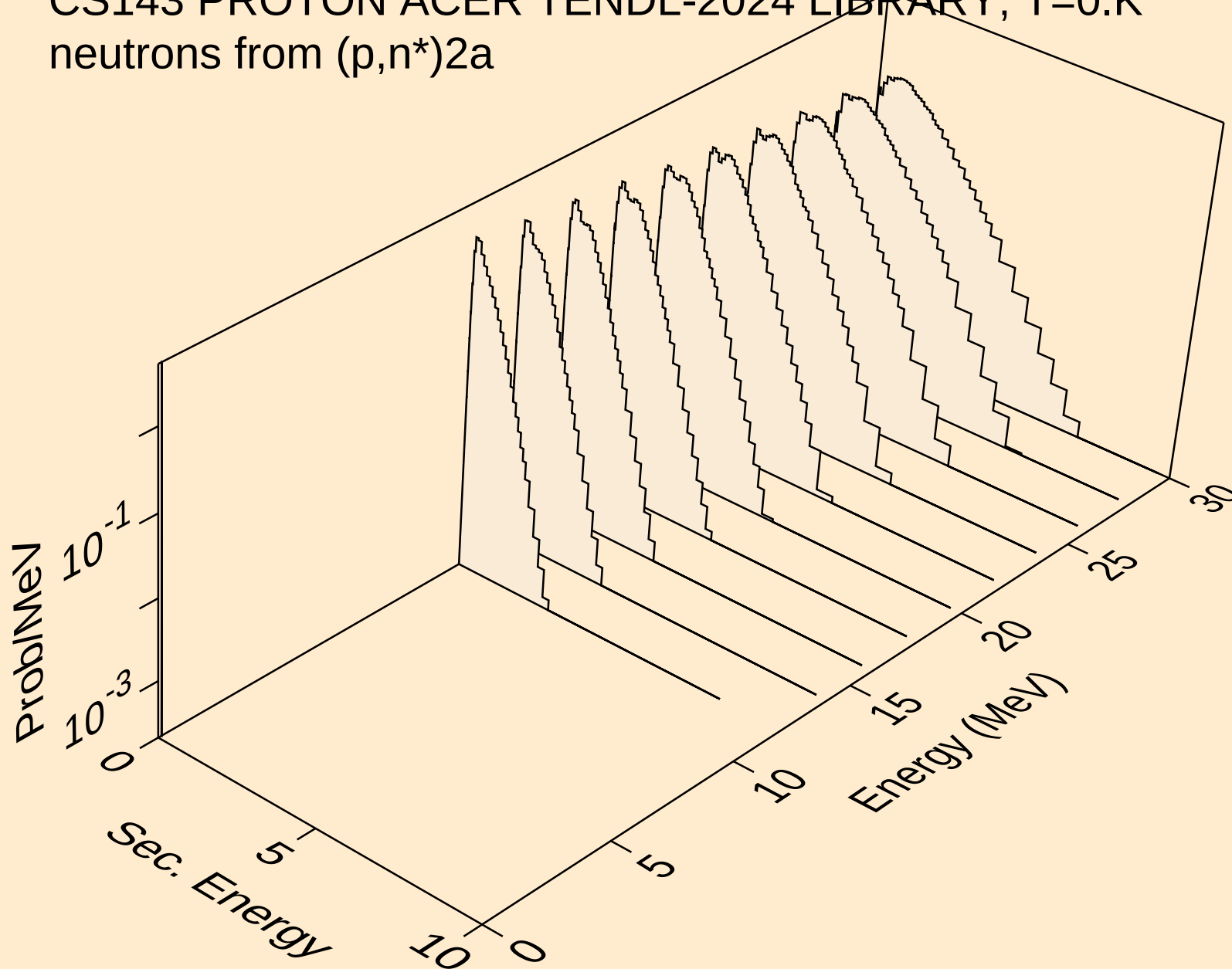
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,3n)a



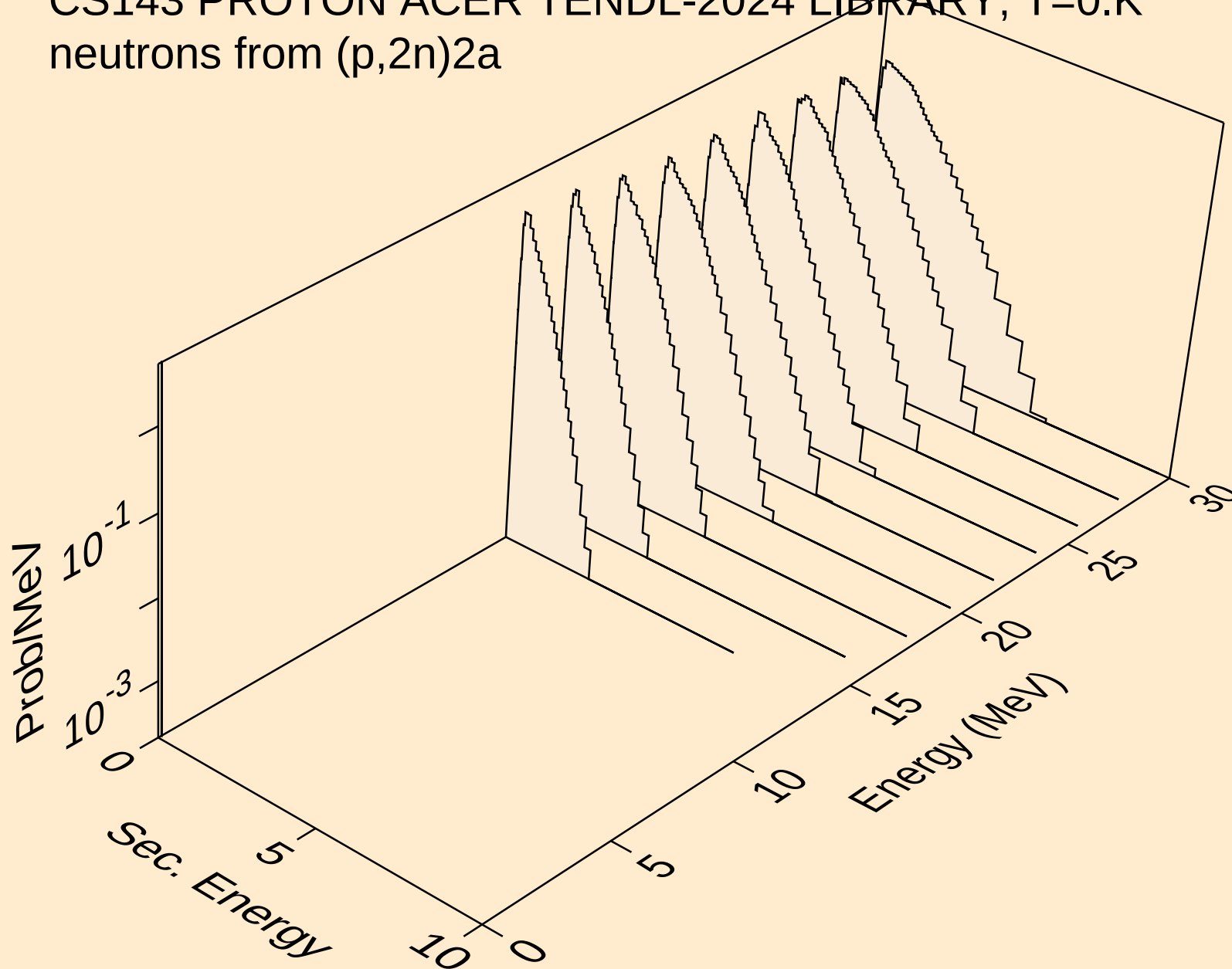
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)p



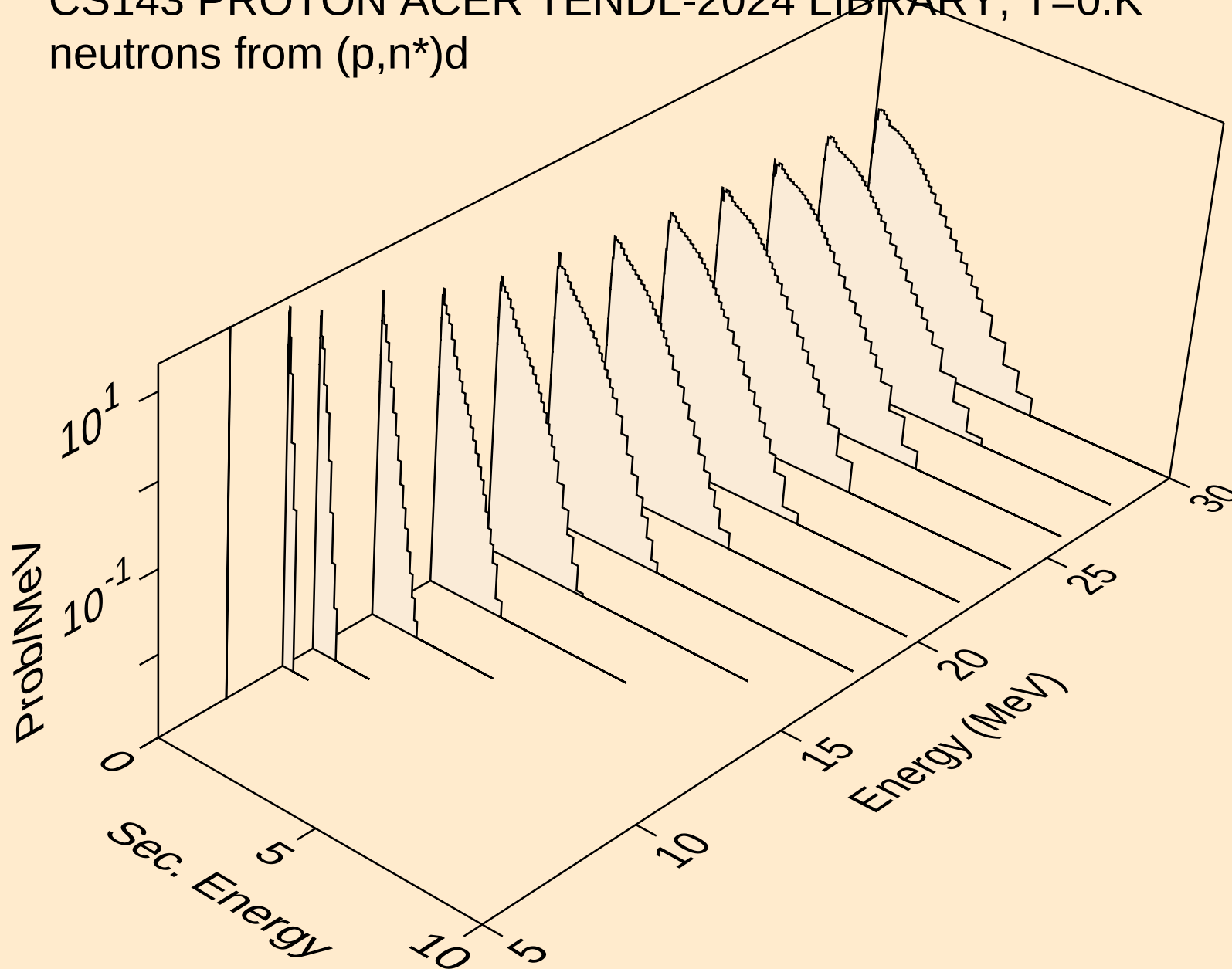
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)2a



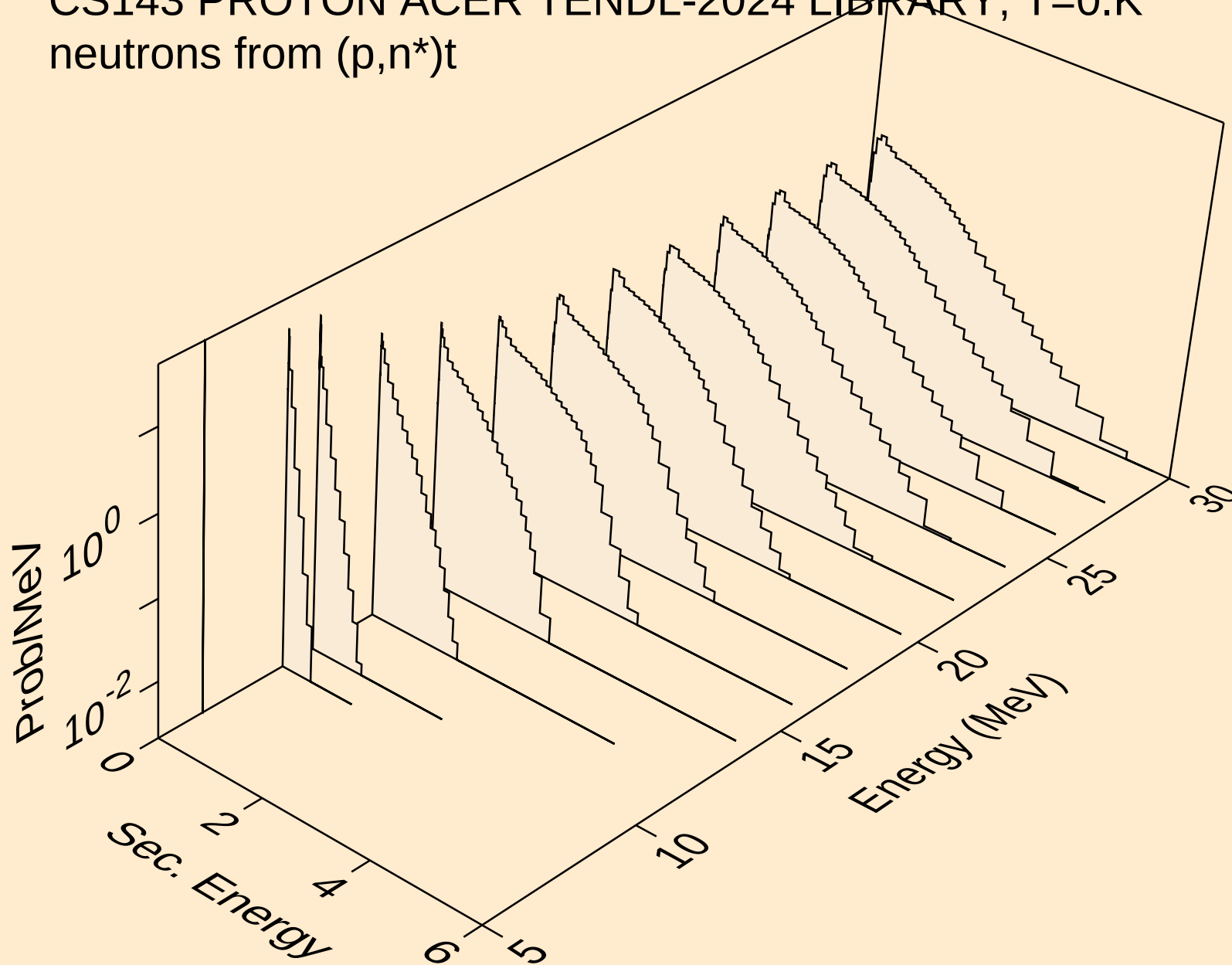
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,2n)2a



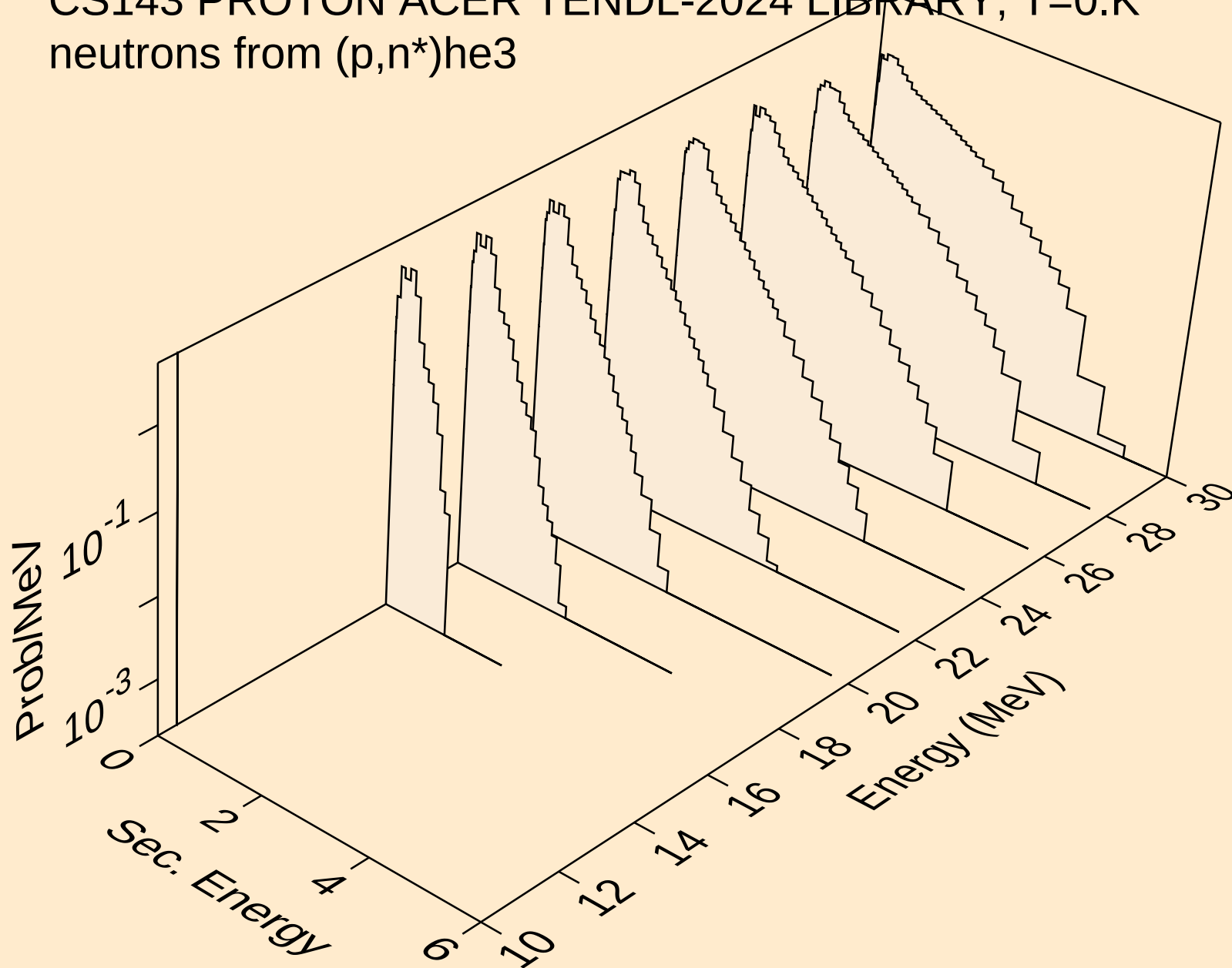
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)d



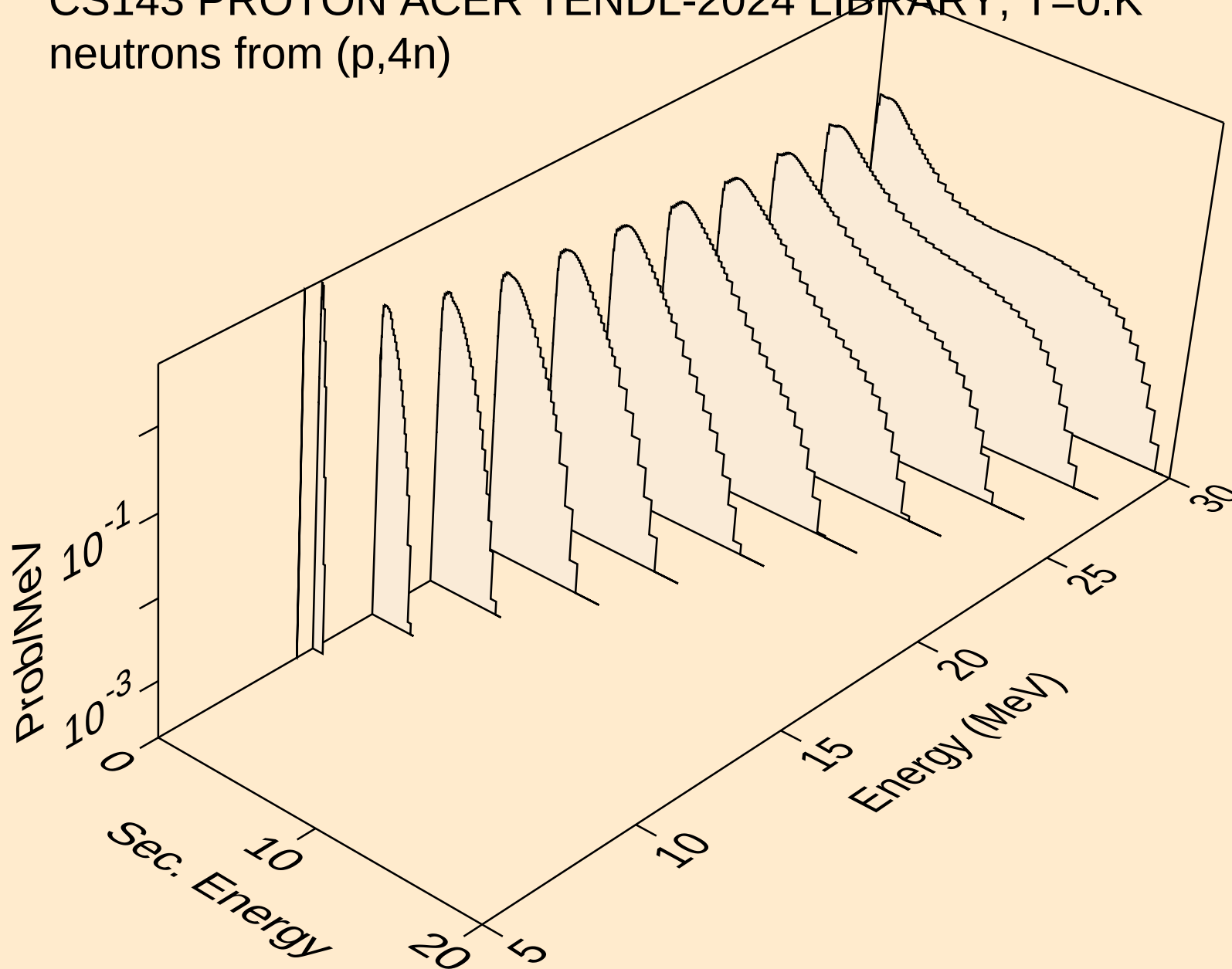
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)t



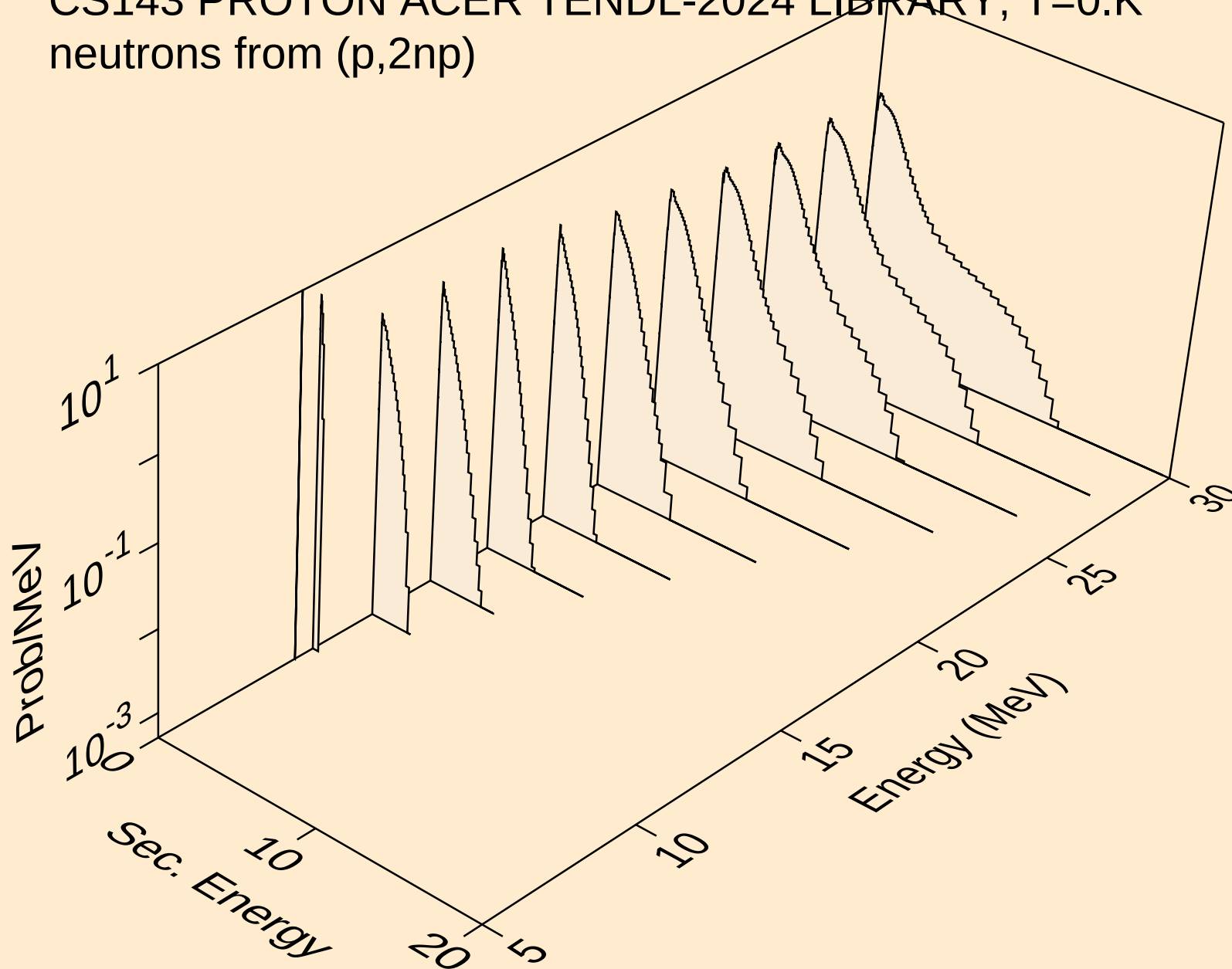
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n\*)he3



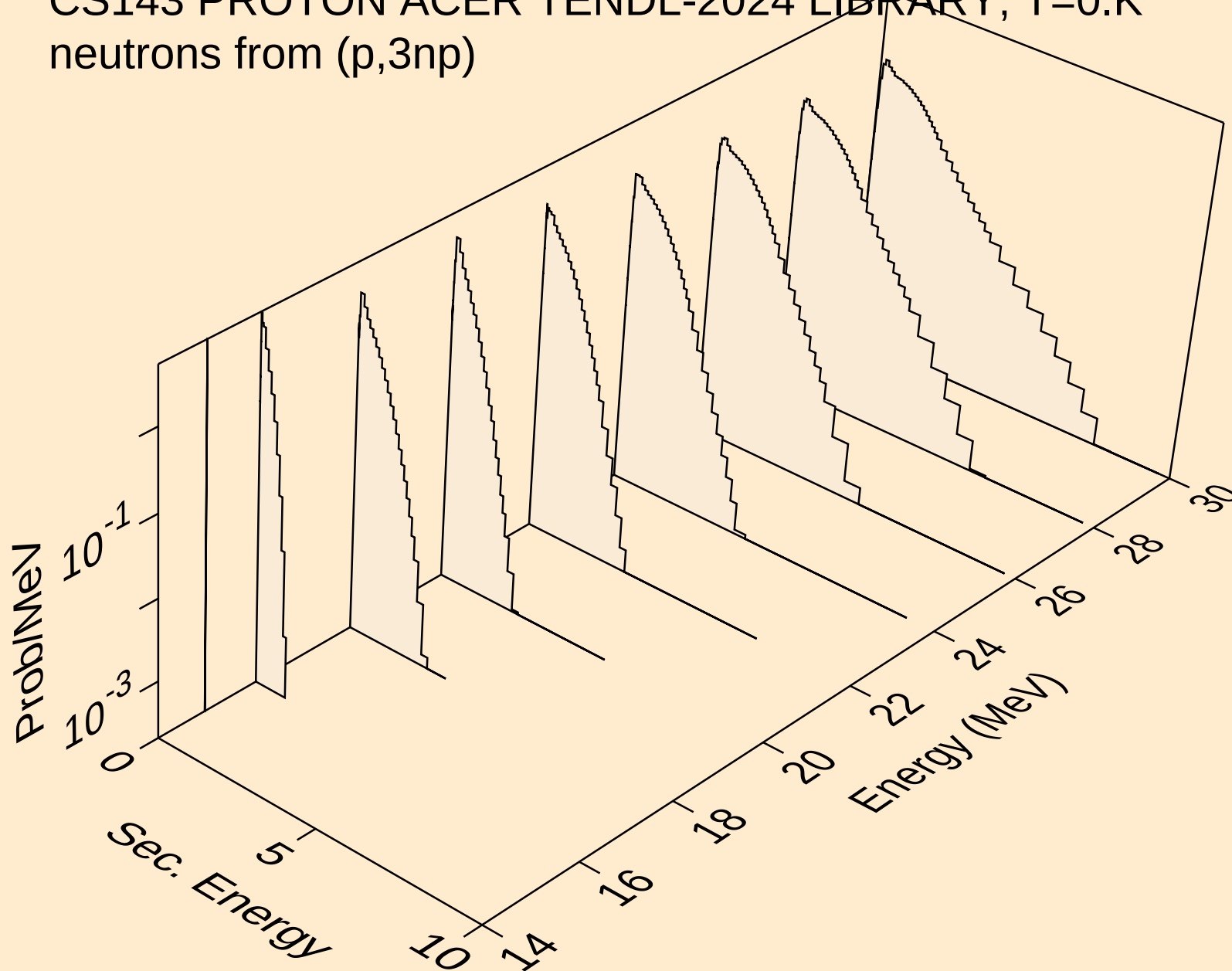
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,4n)



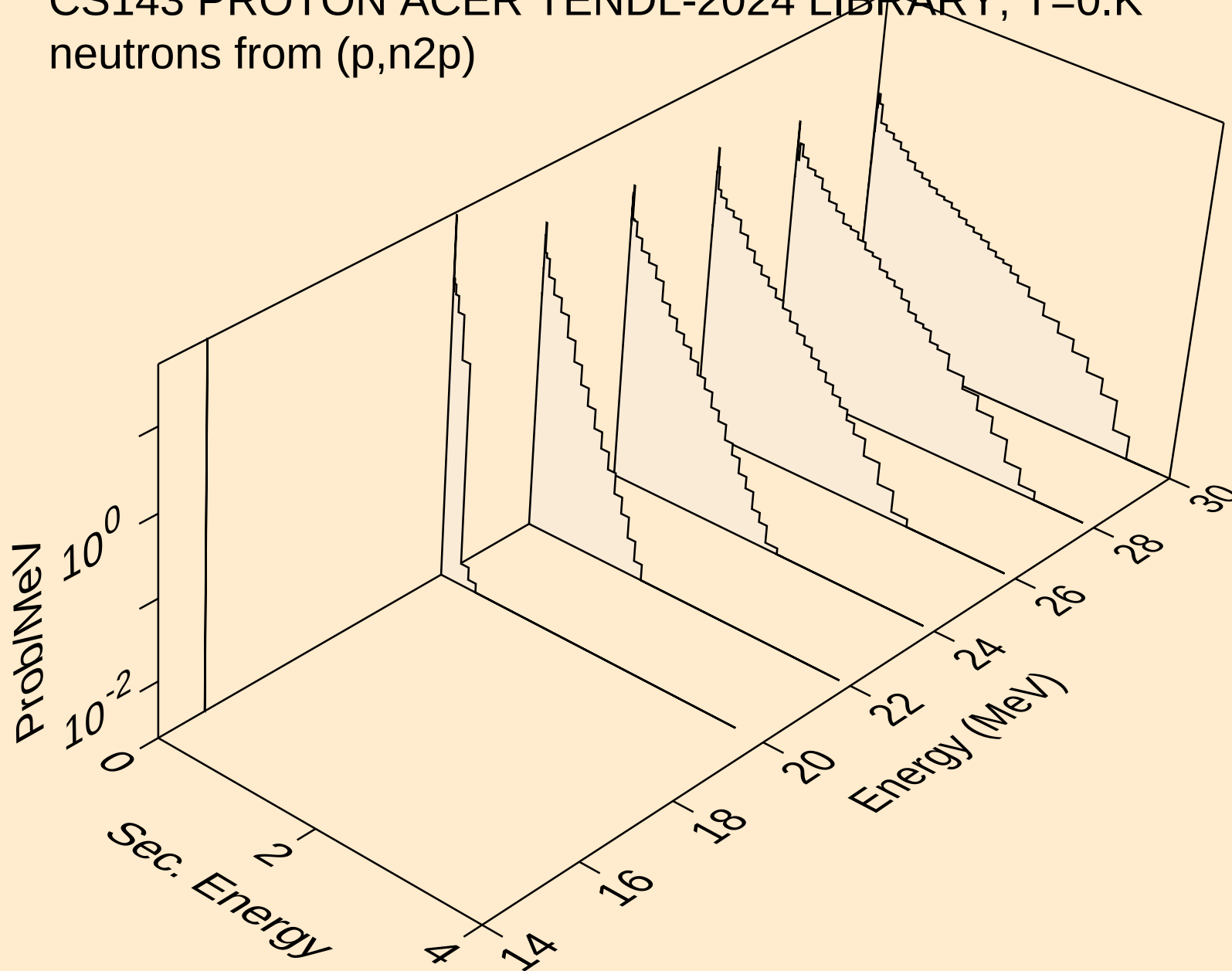
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,2np)



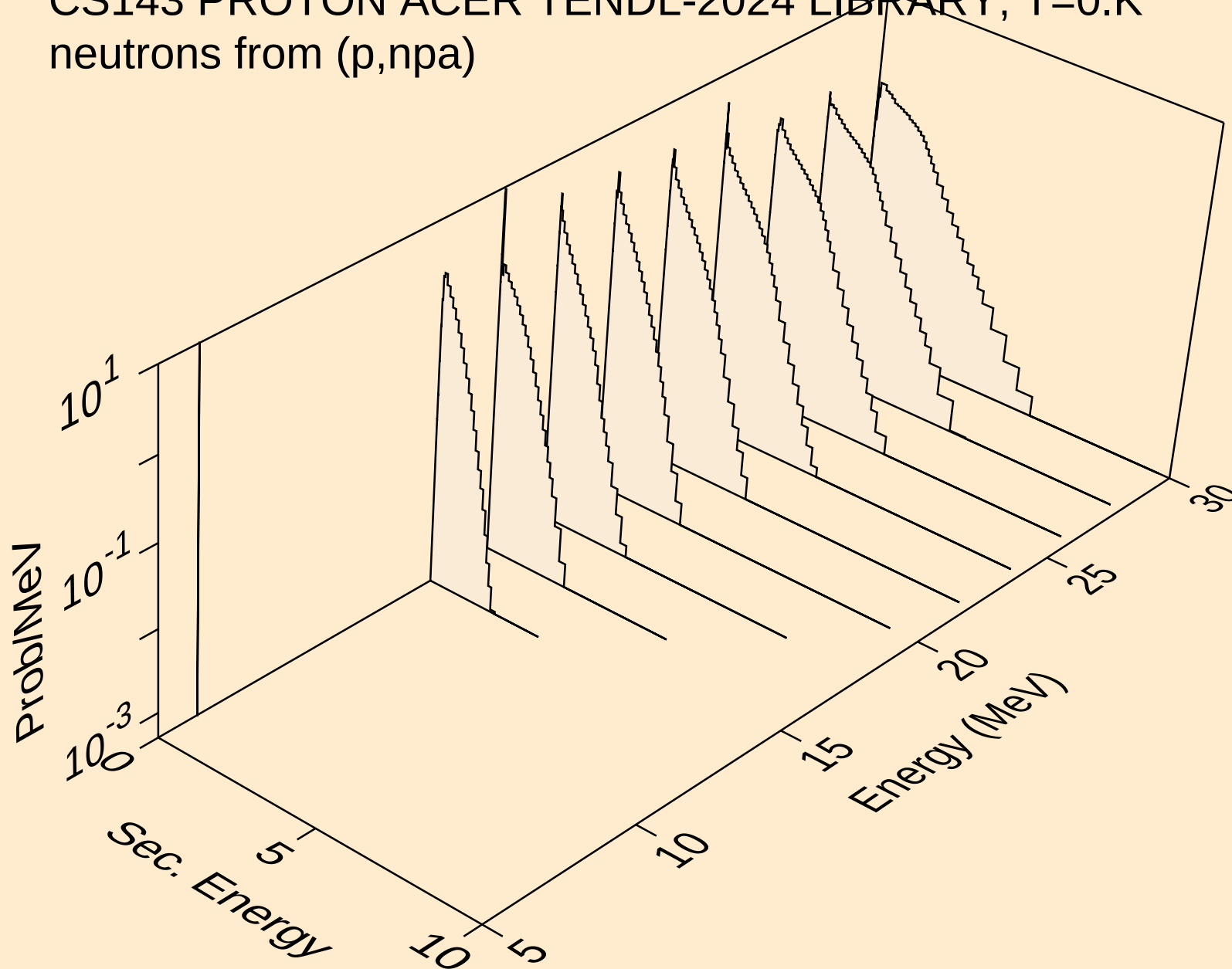
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,3np)



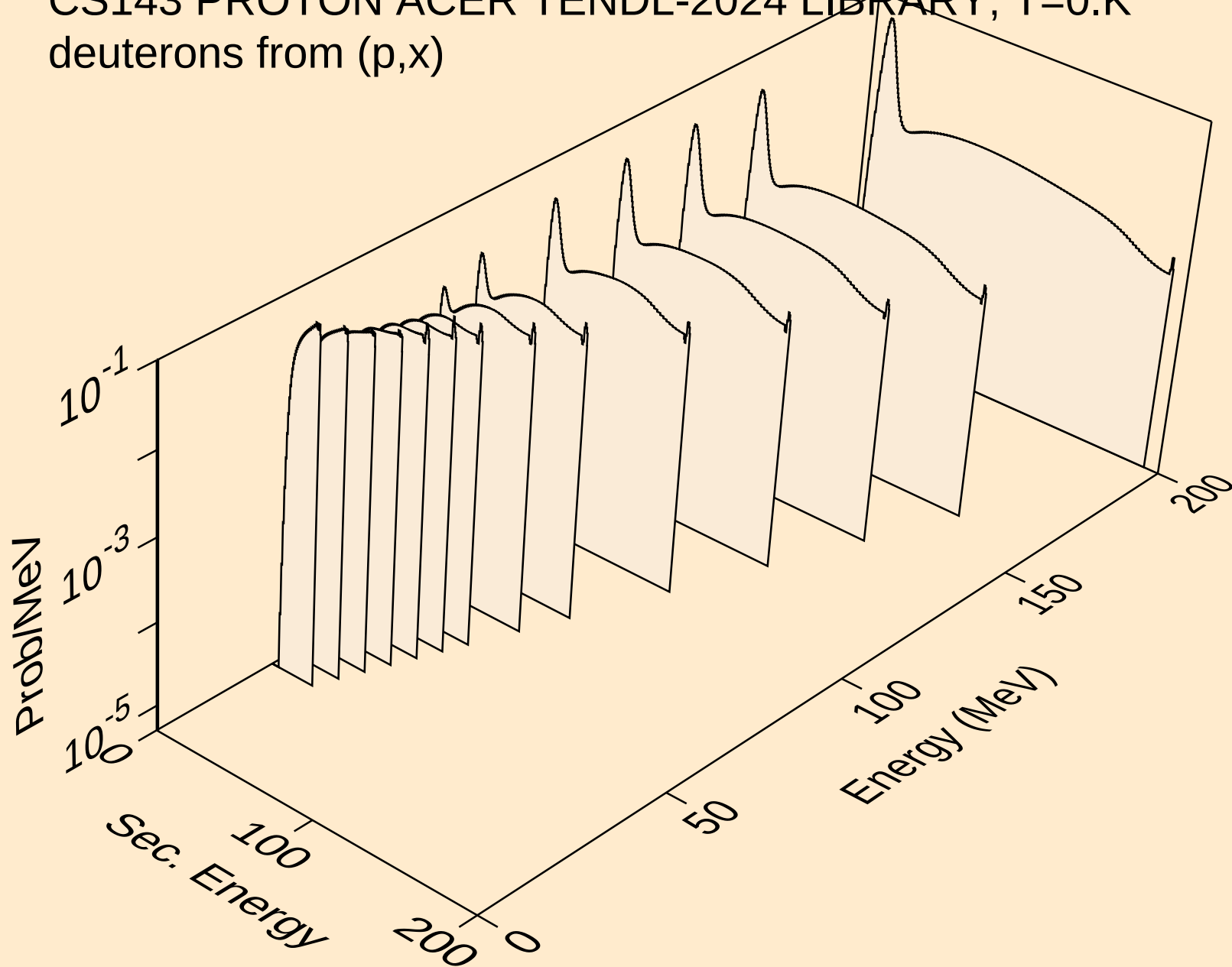
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,n2p)



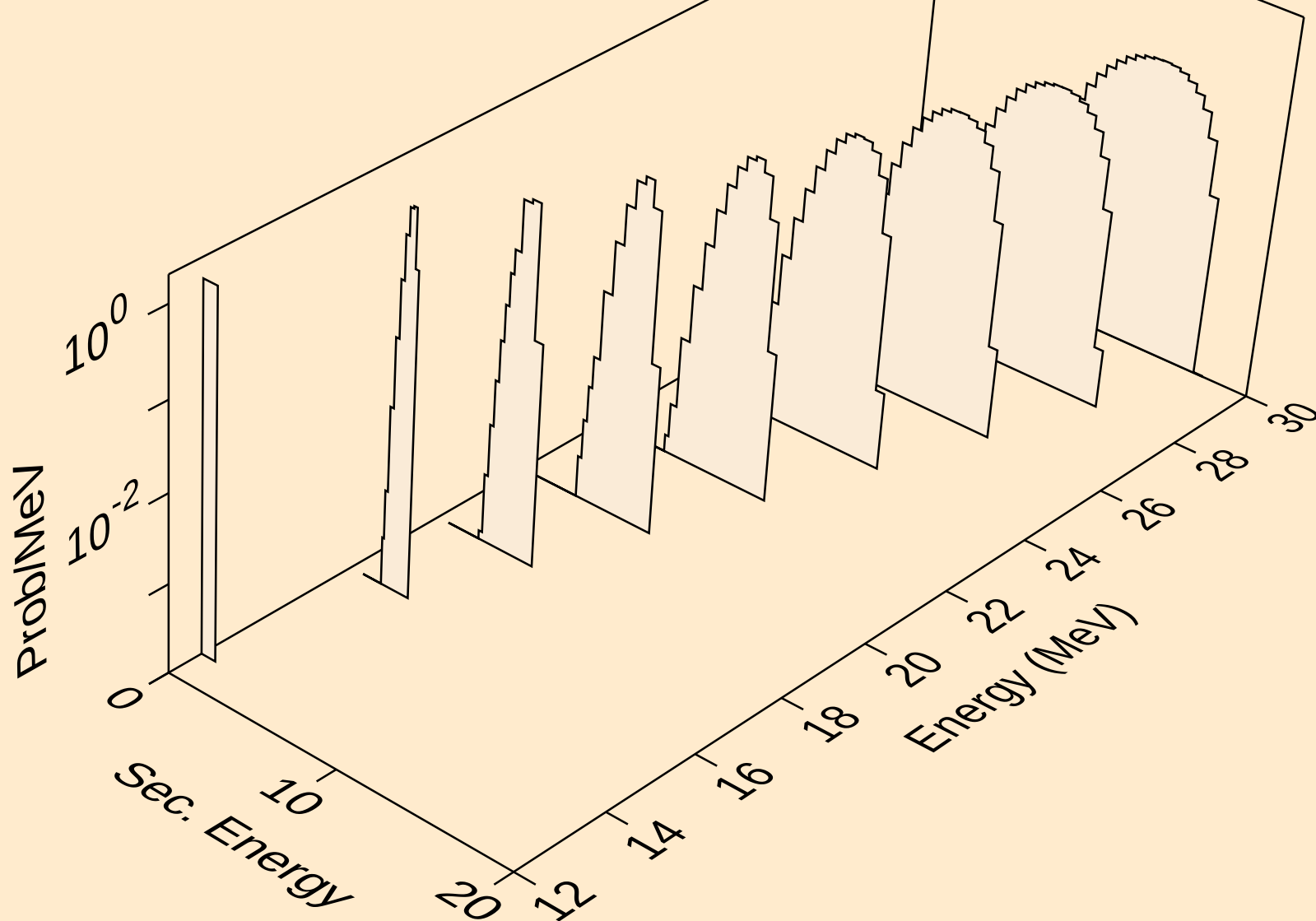
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (p,npa)



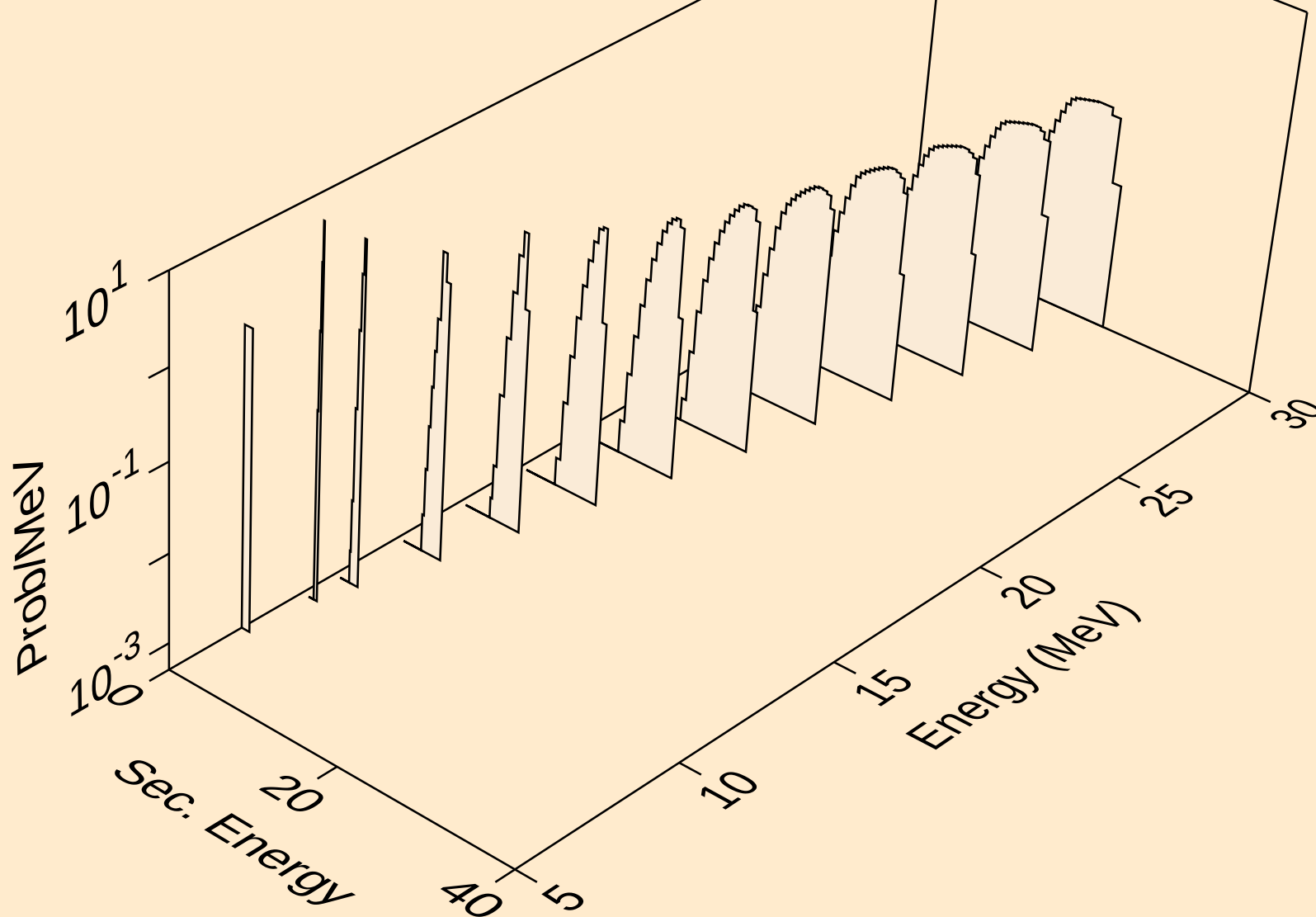
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,x)



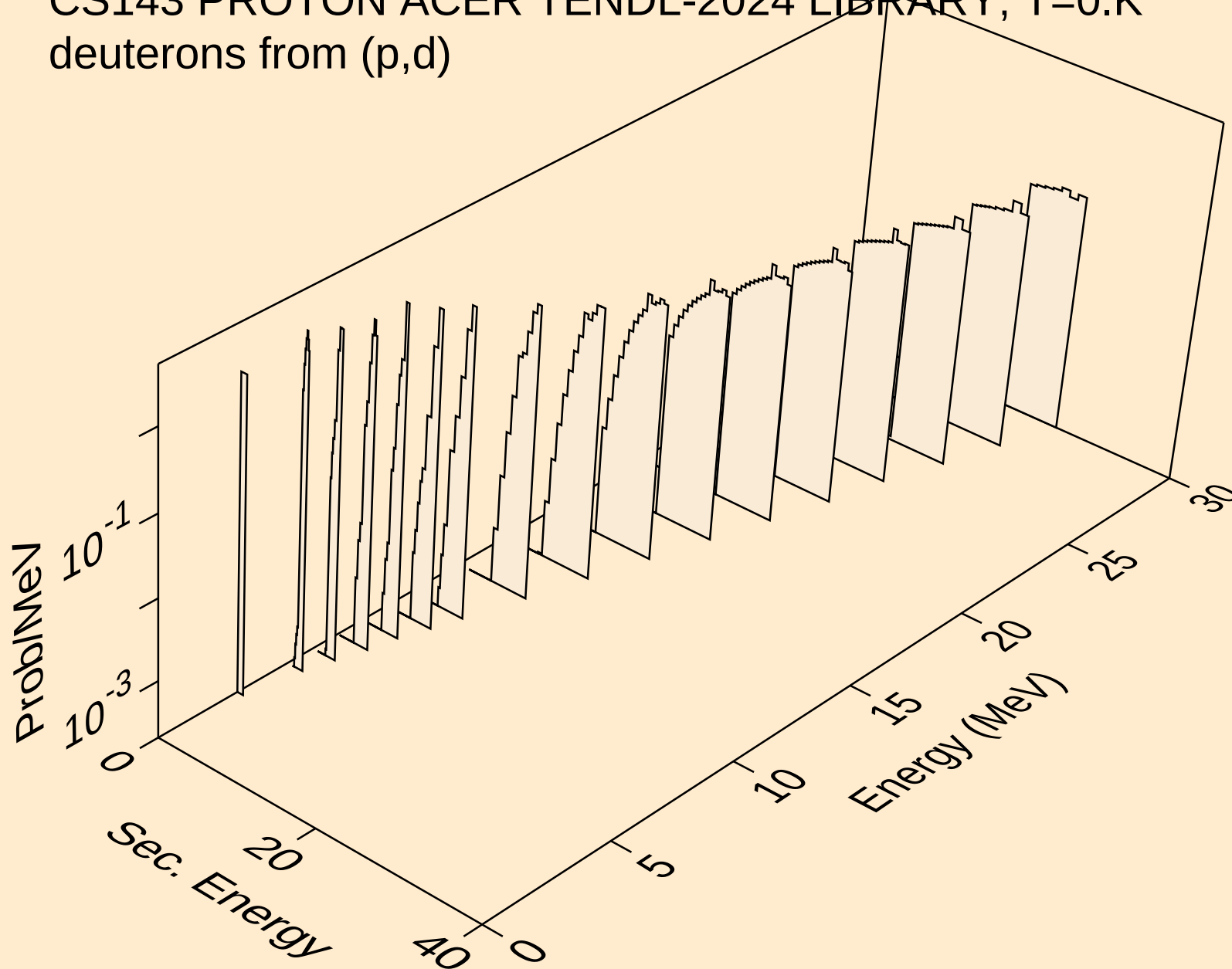
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deuterons from (p,2nd)



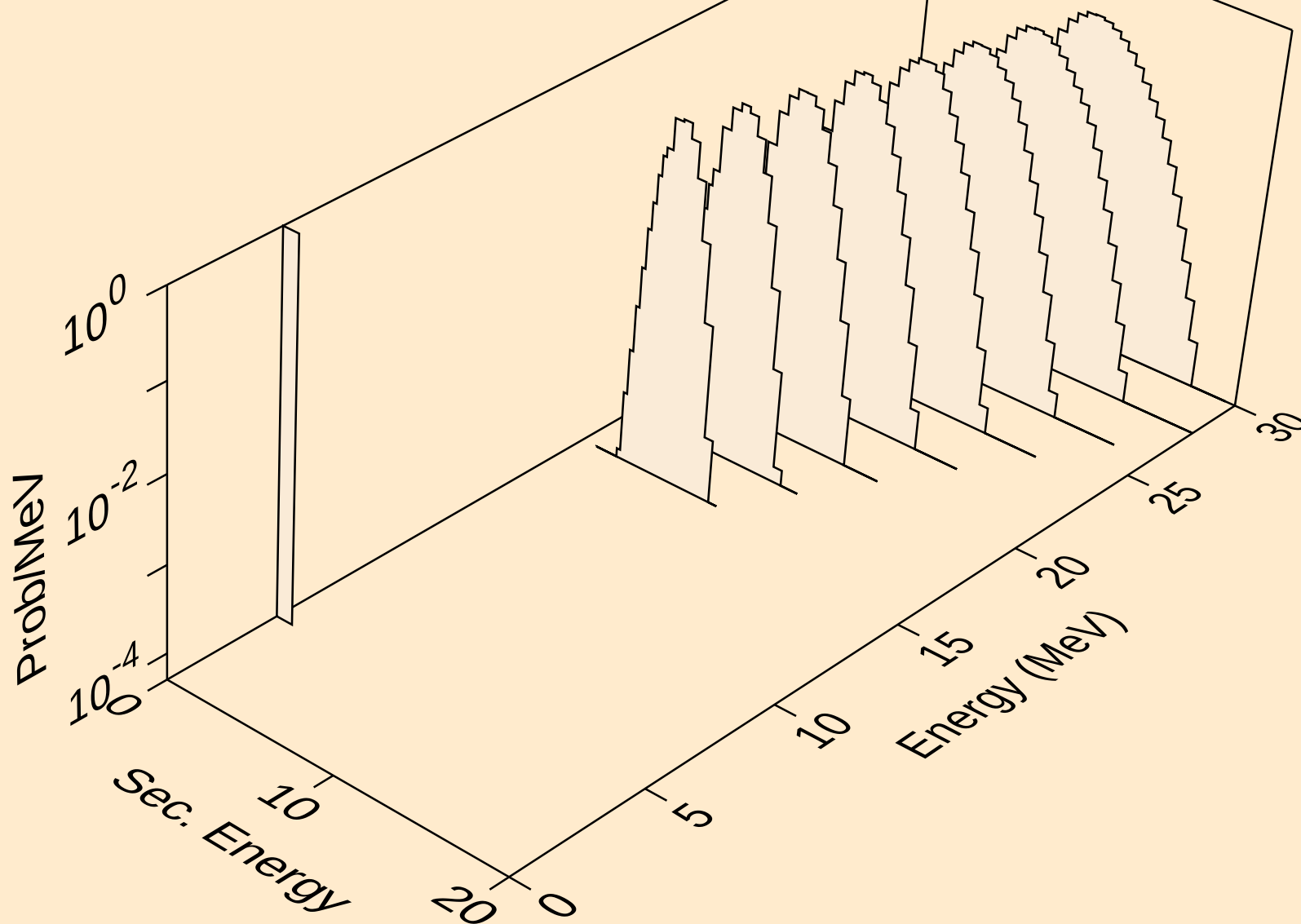
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (p,n\*)d



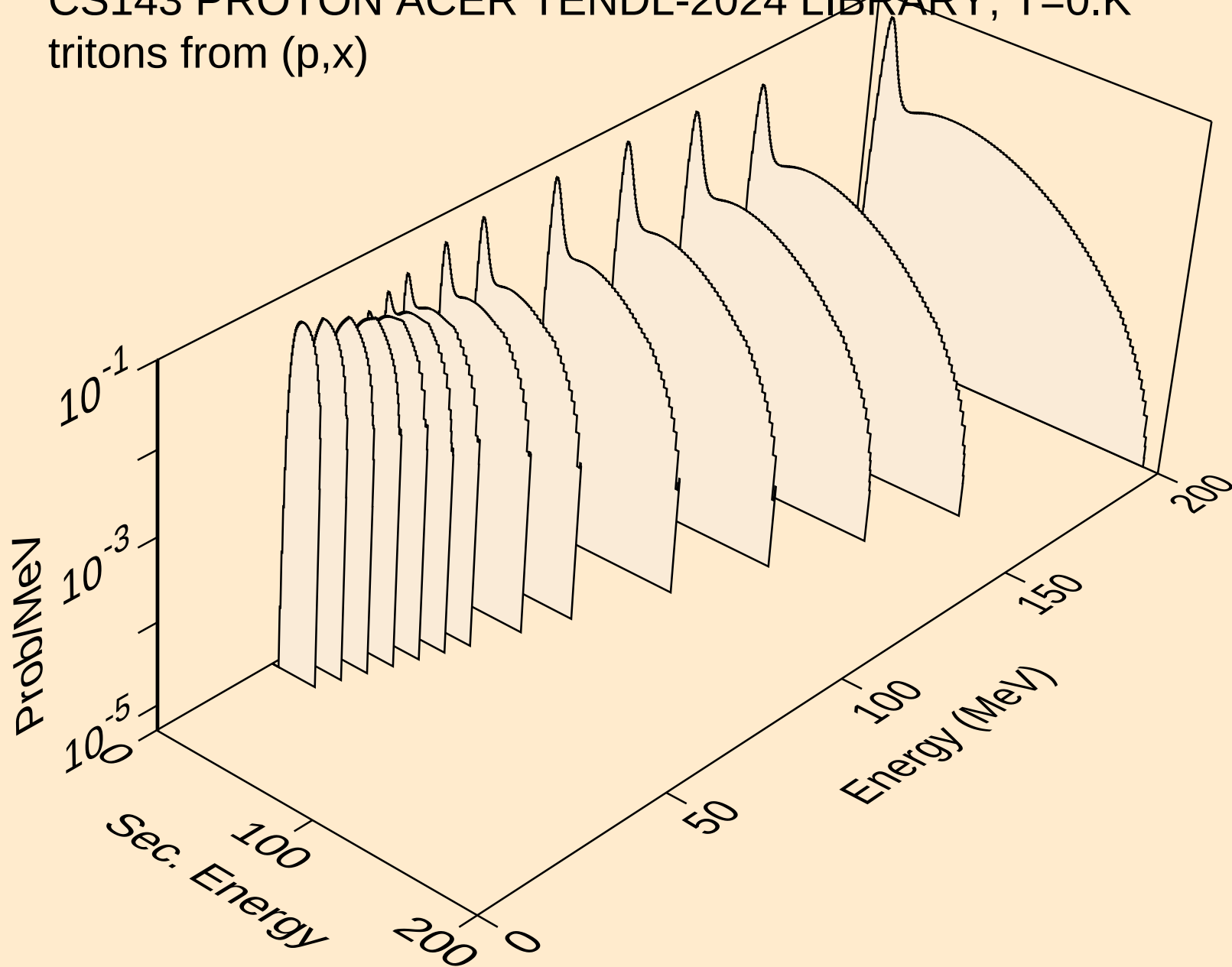
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deuterons from (p,d)



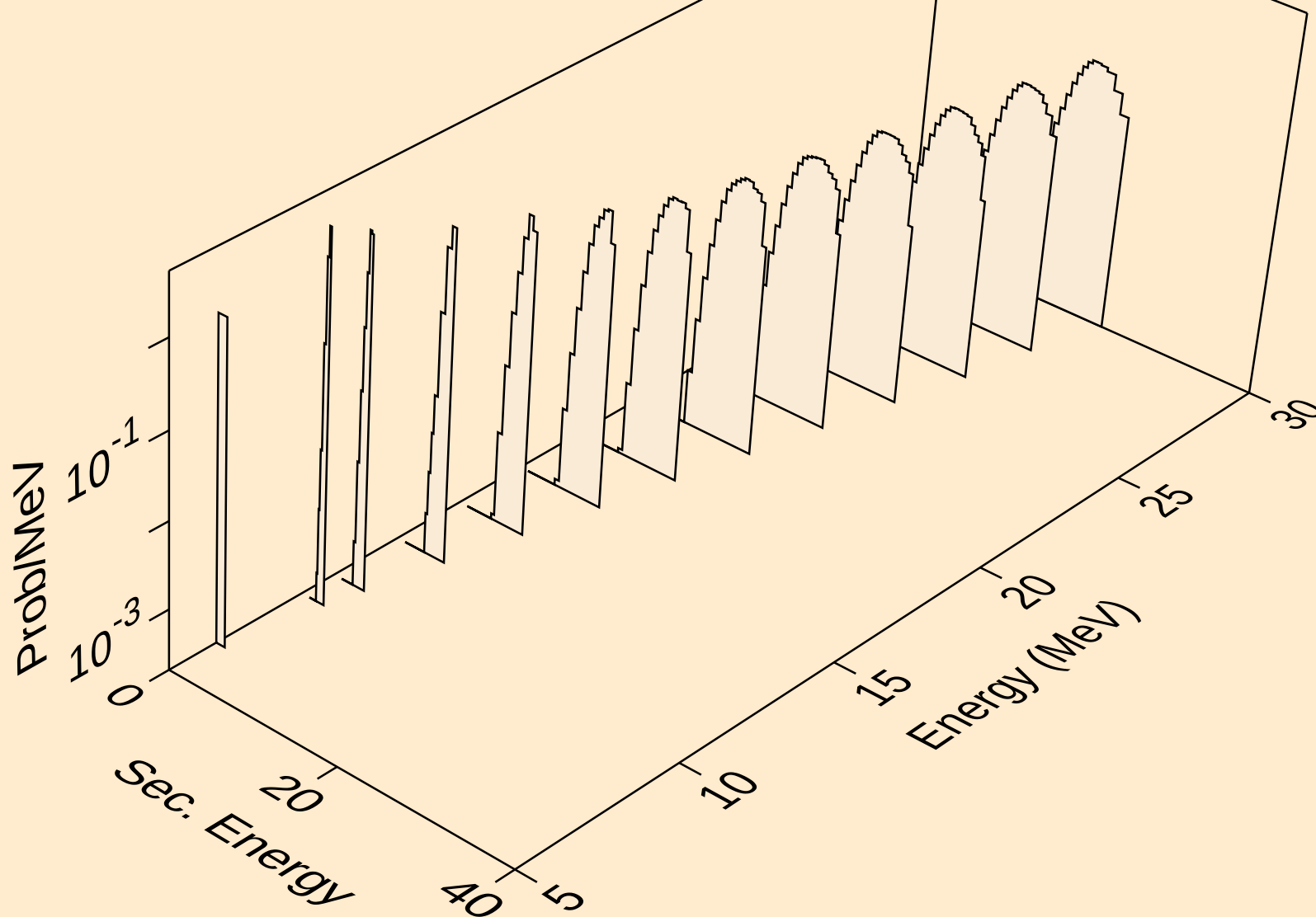
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deuterons from (p,da)



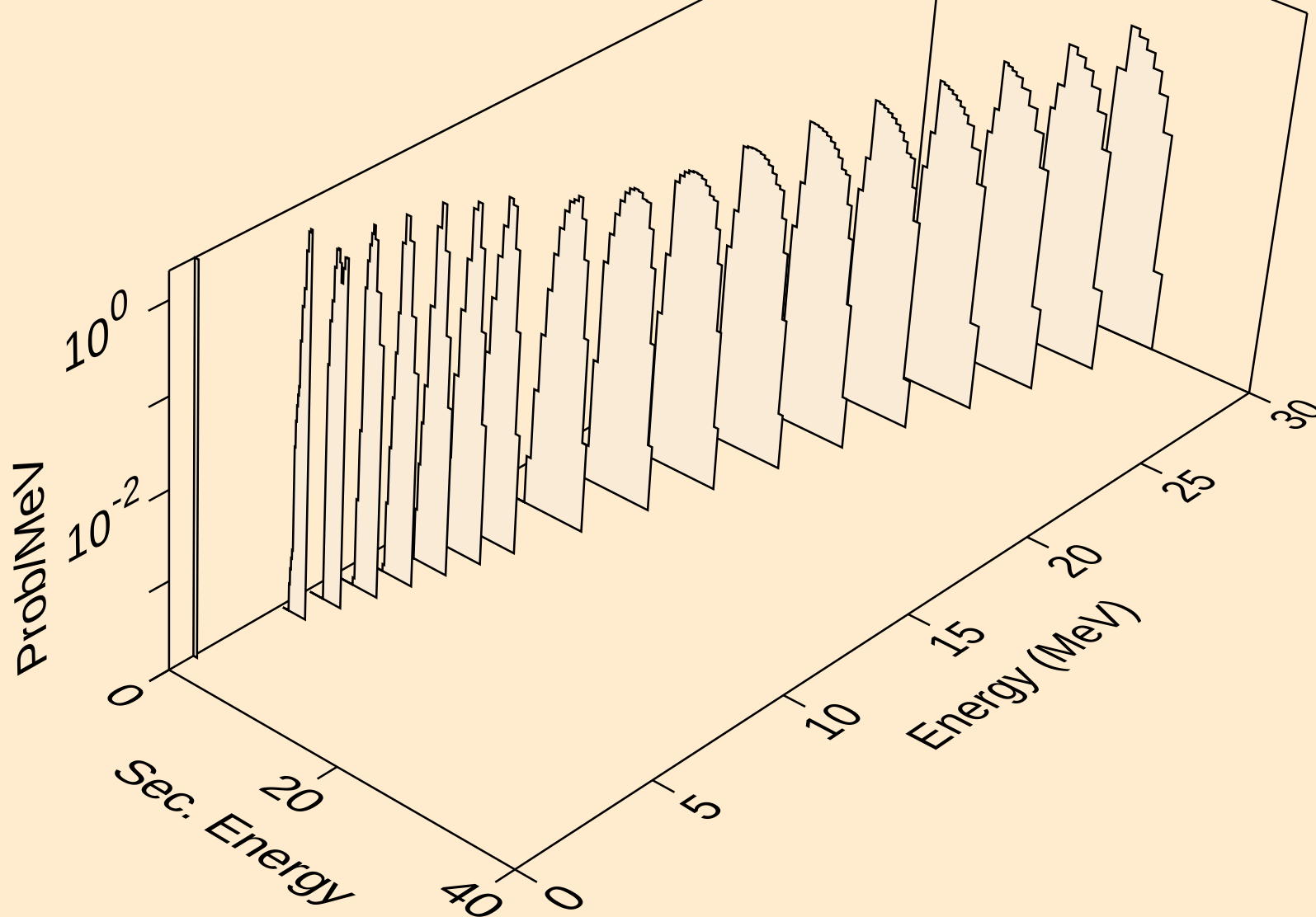
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (p,x)



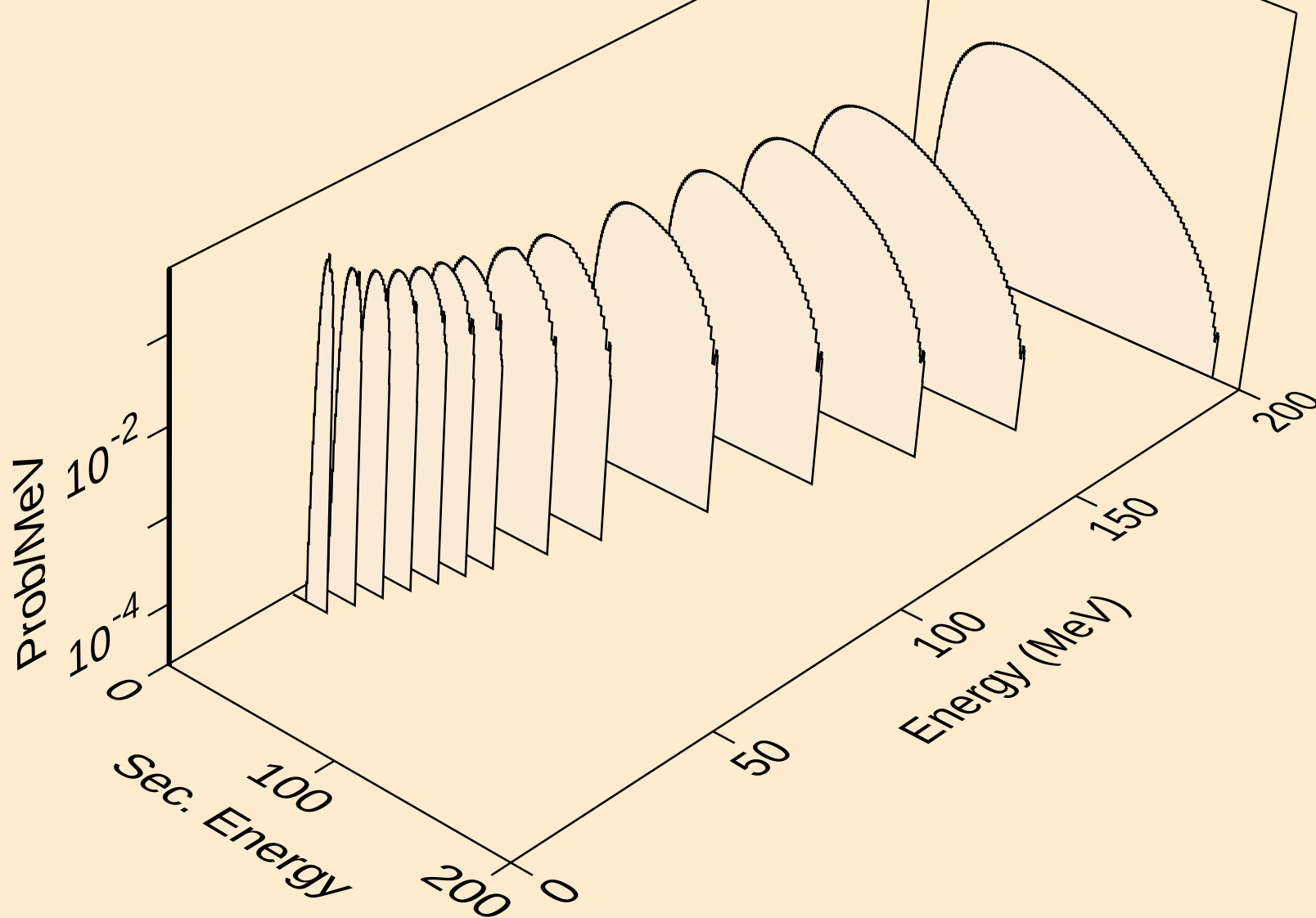
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (p,n\*)t



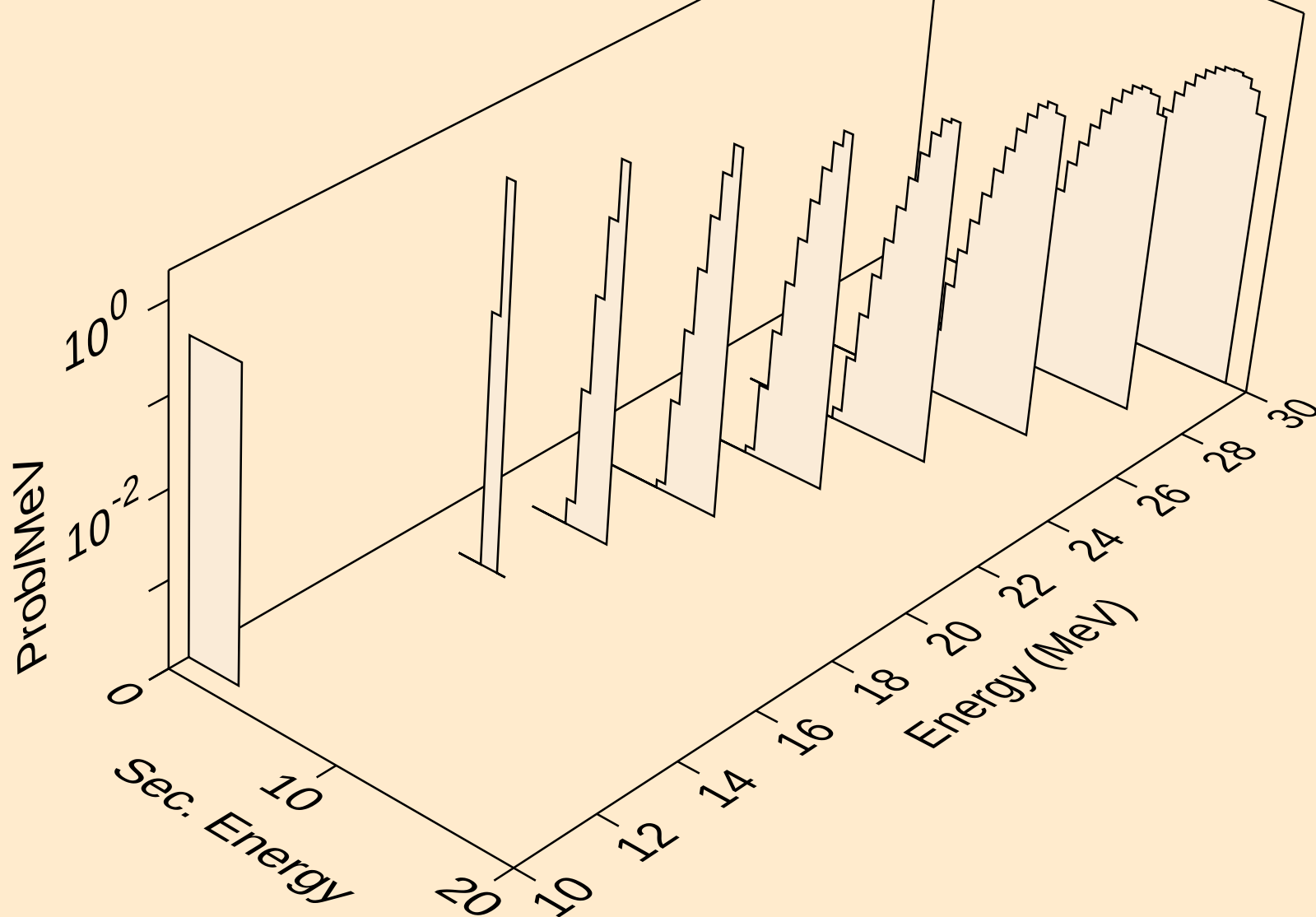
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tritons from (p,t)



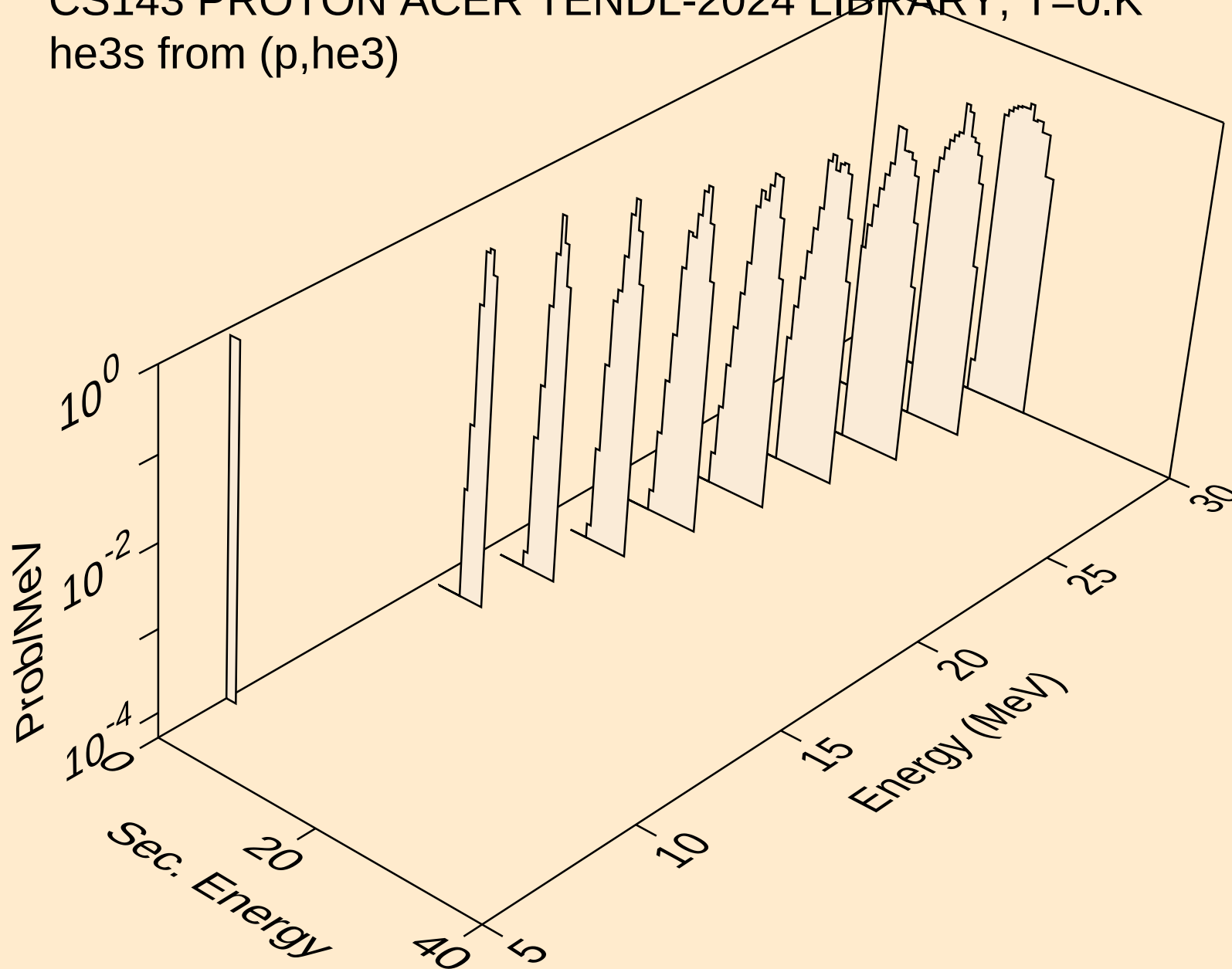
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,x)



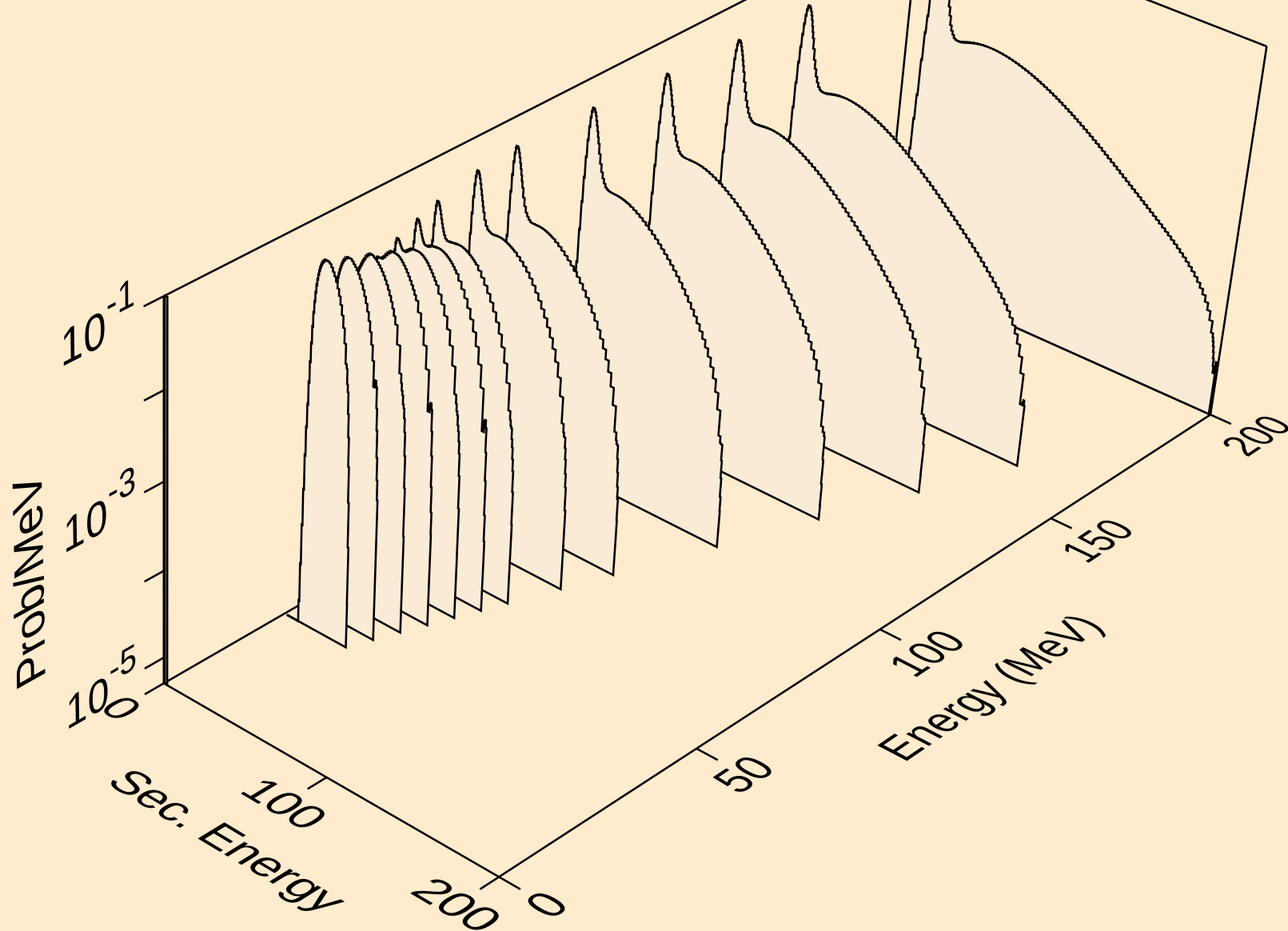
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
he3s from (p,n\*)he3



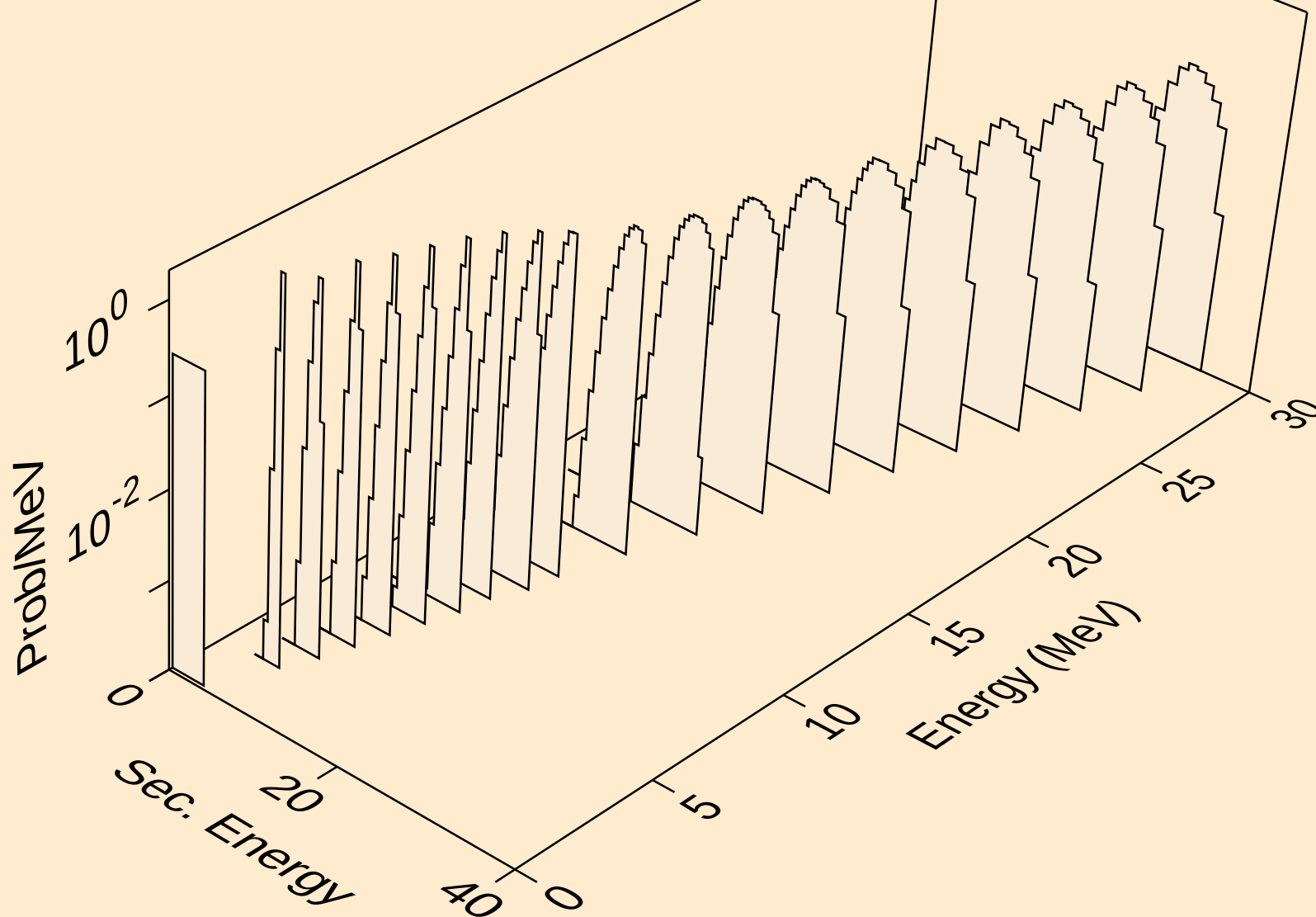
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he3s from (p,he3)



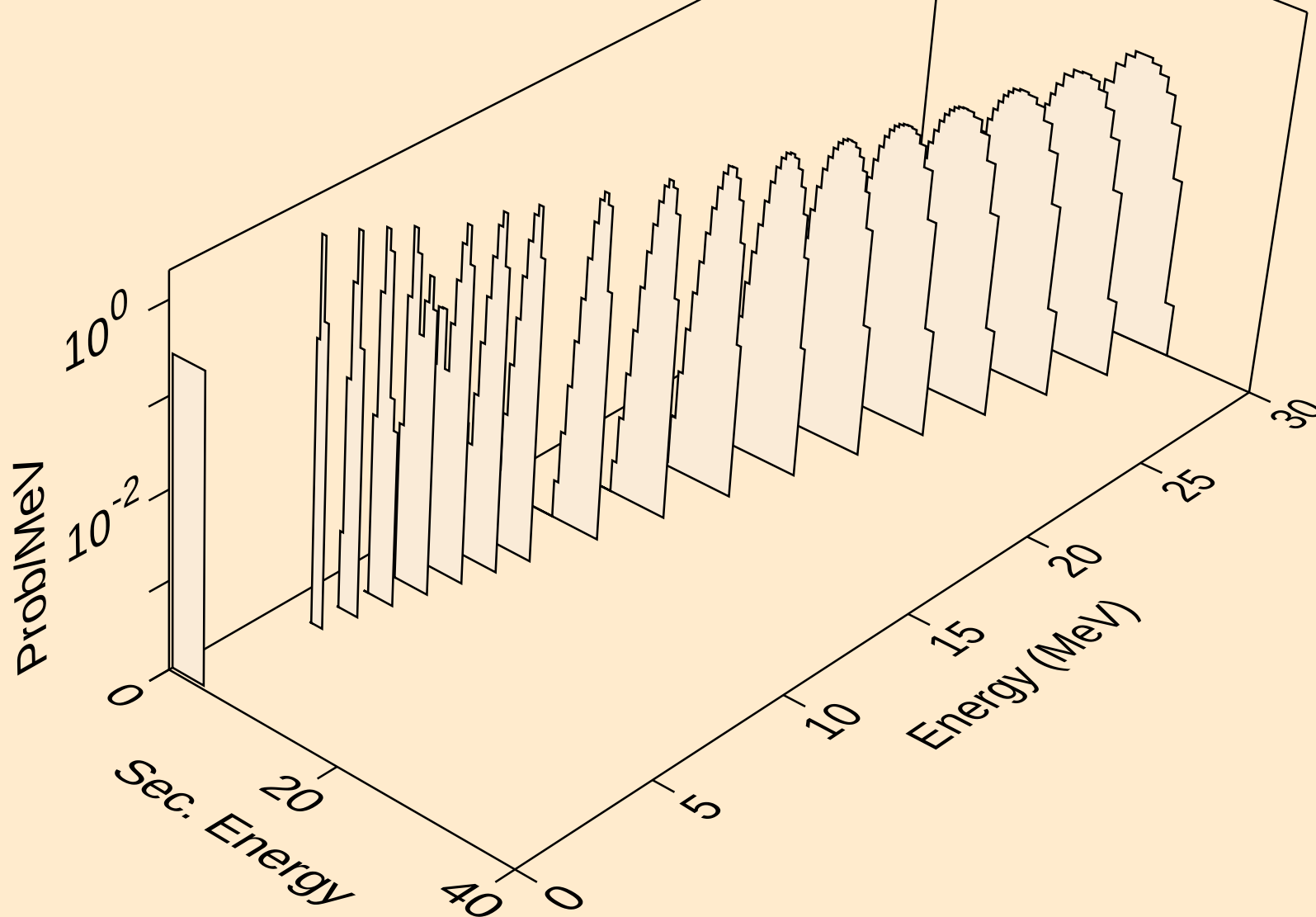
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,x)



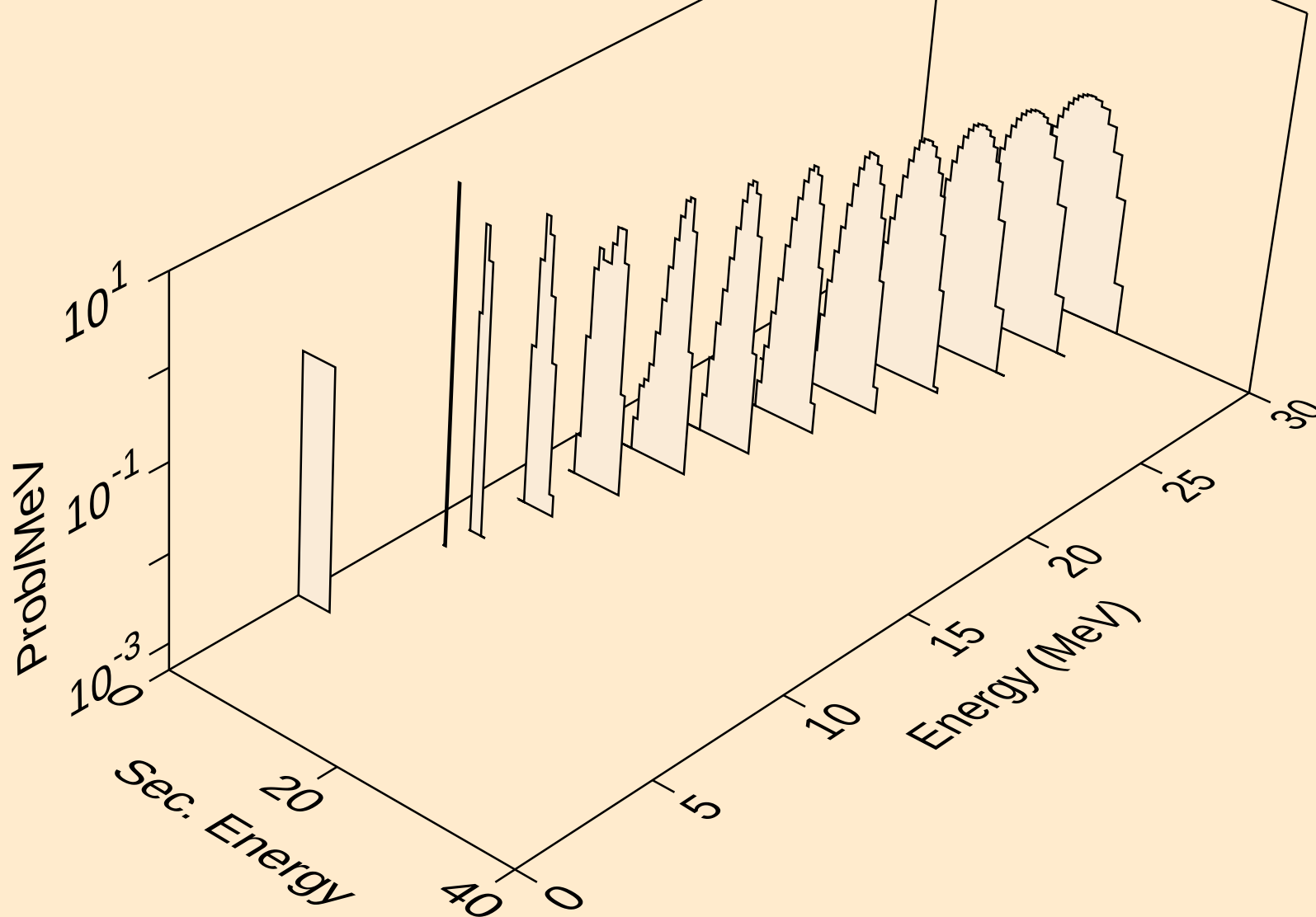
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,n\*)a



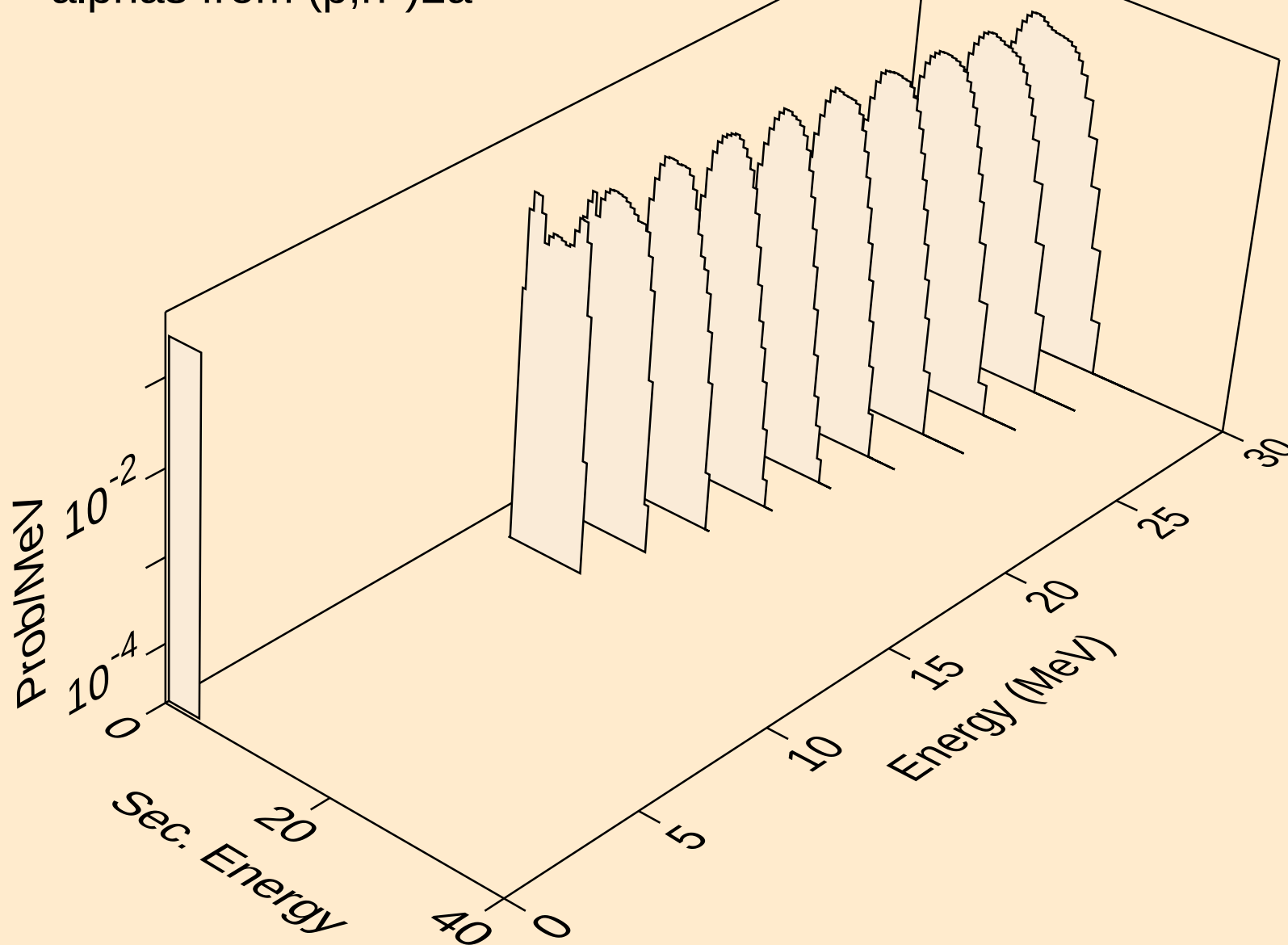
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,2n)a



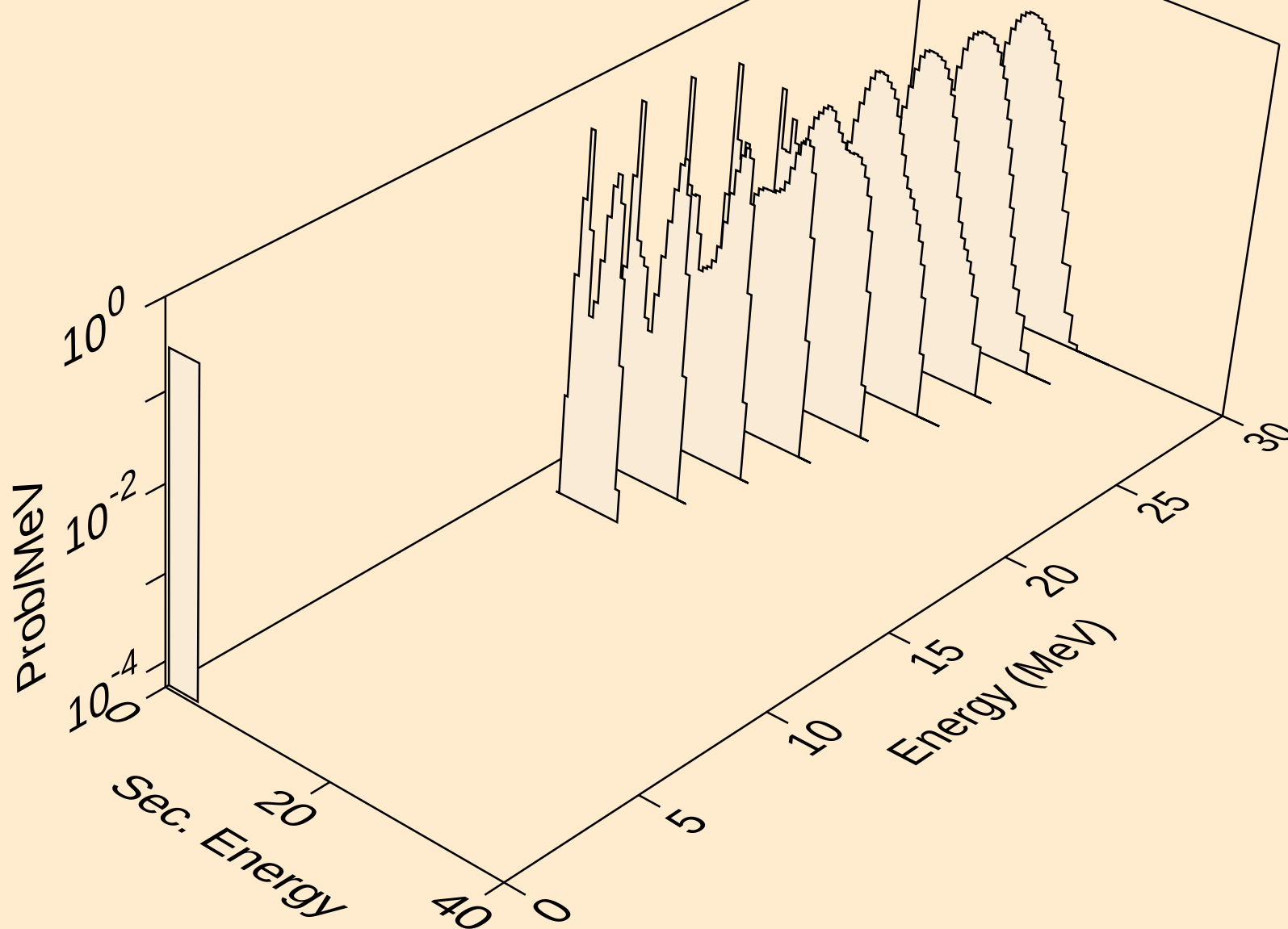
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,3n)a



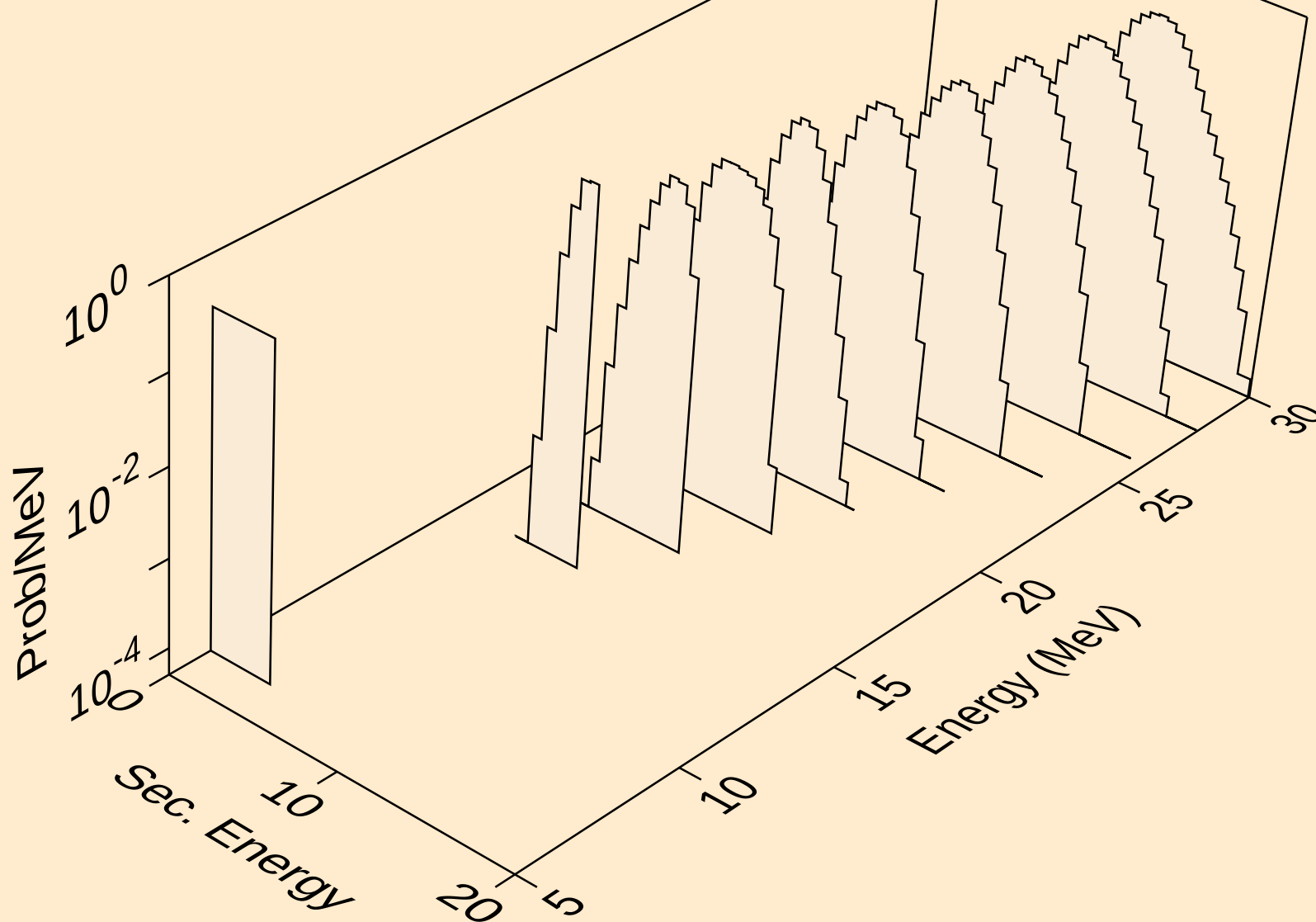
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alphas from (p,n\*)2a



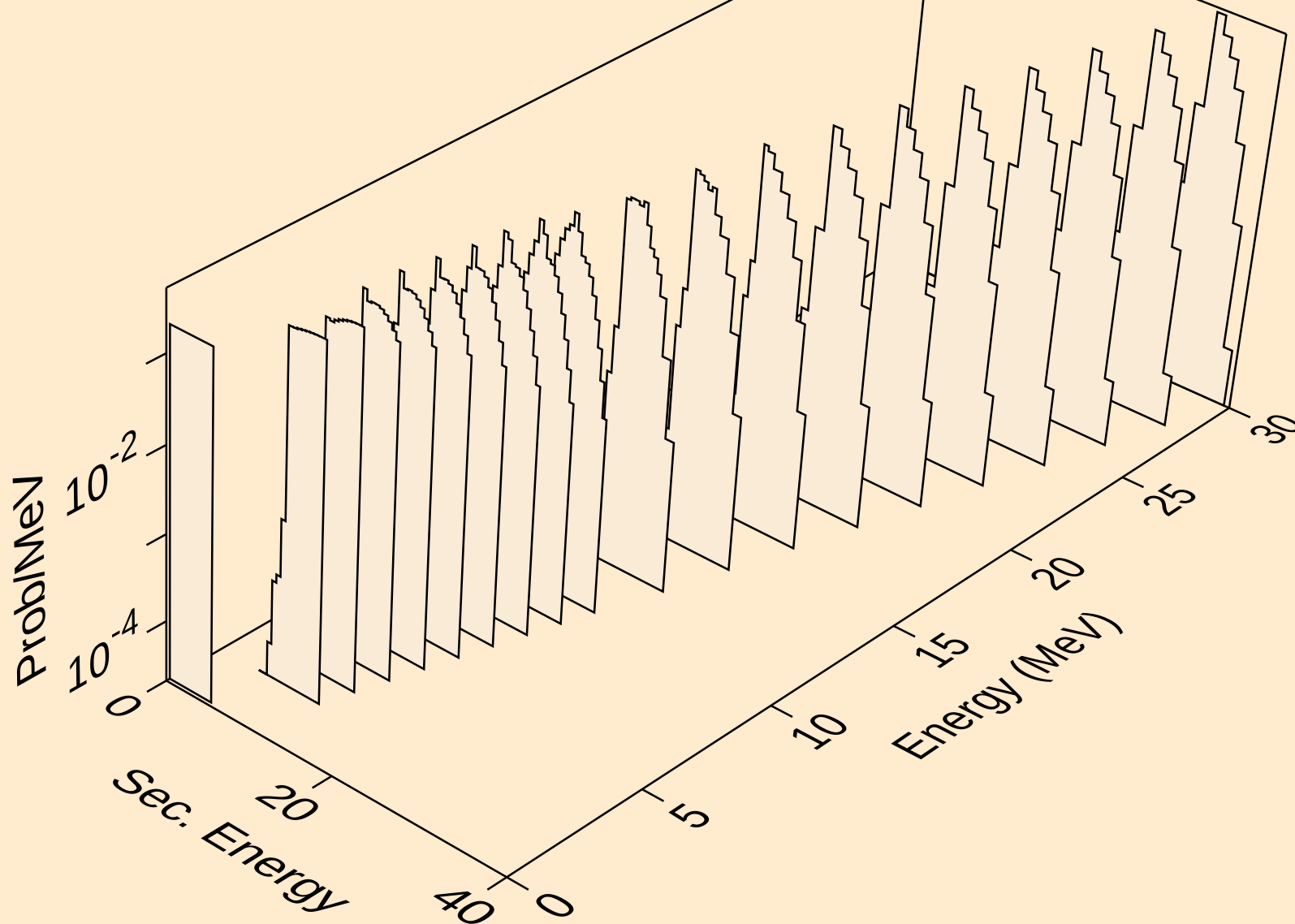
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alphas from (p,2n)2a



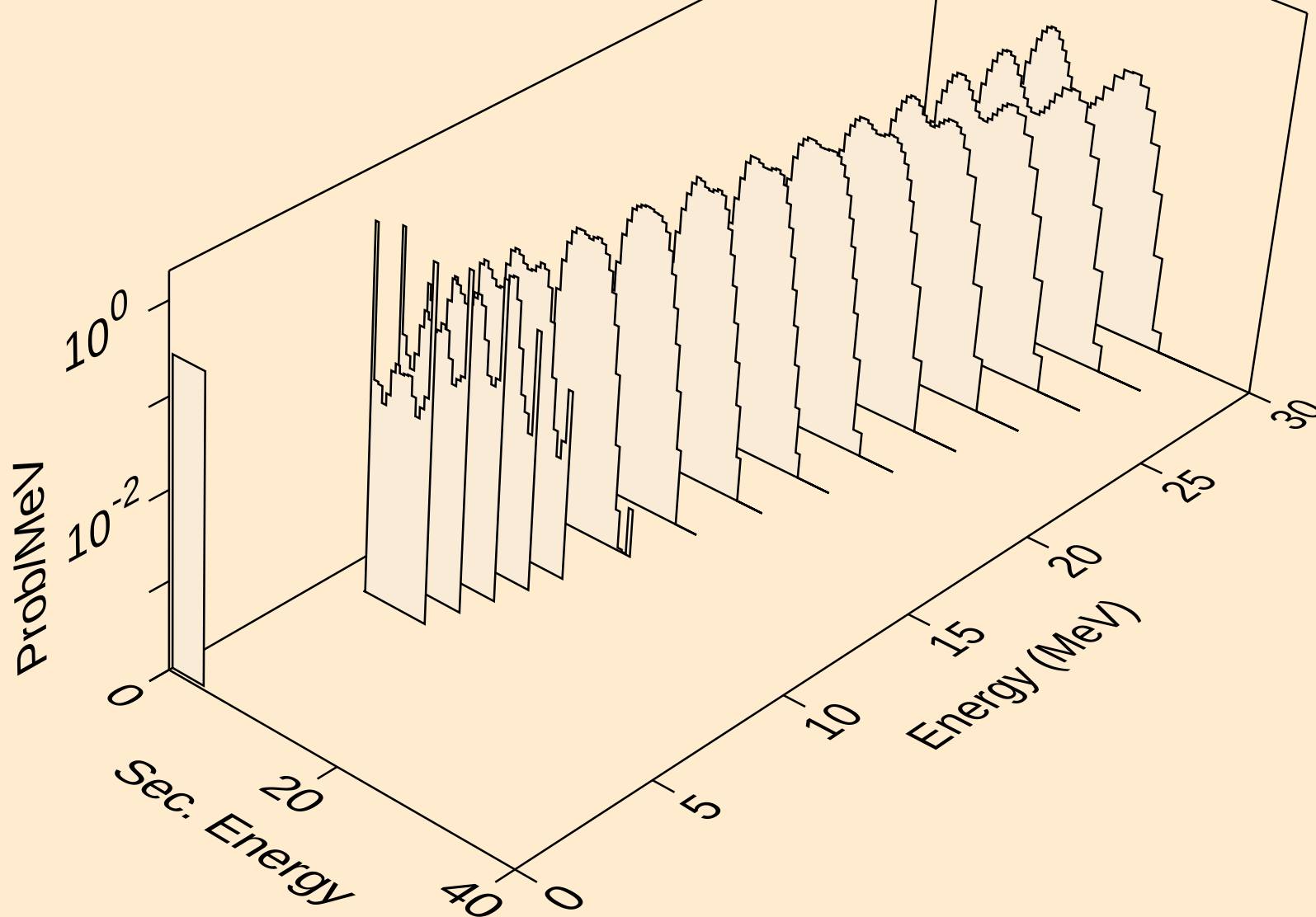
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alphas from (p,npa)



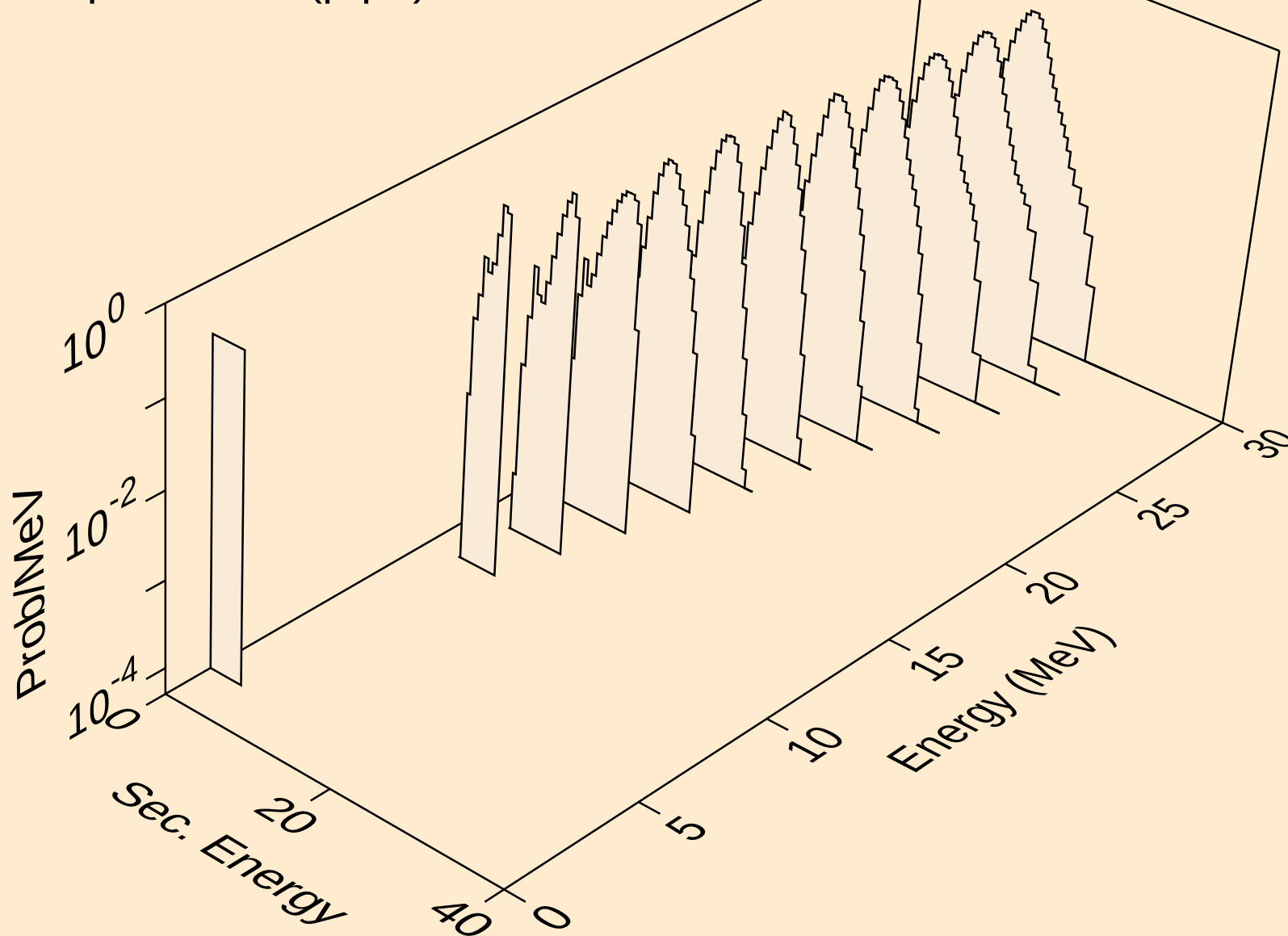
CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,a)



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,2a)



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,pa)



CS143 PROTON ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (p,da)

