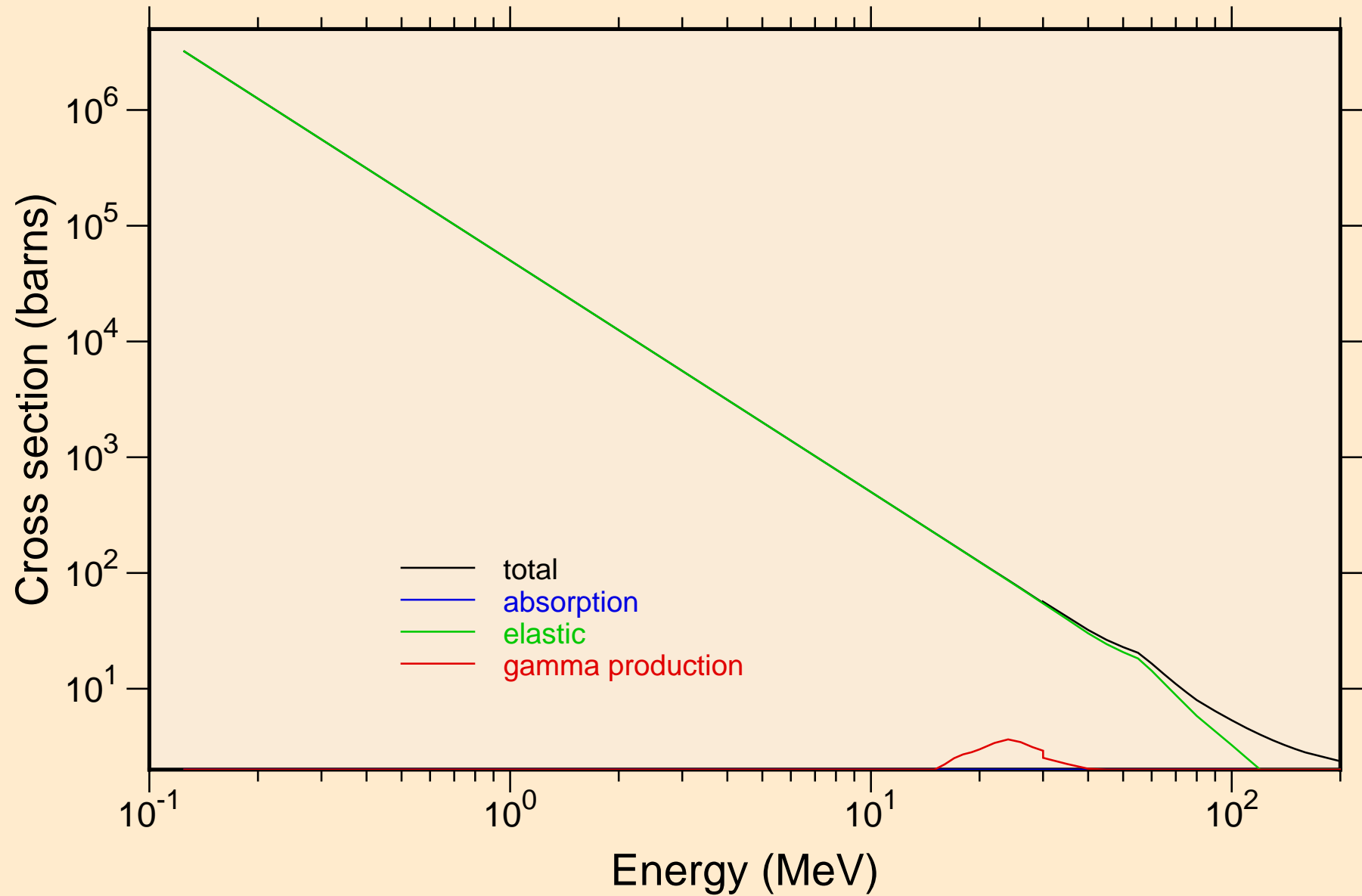
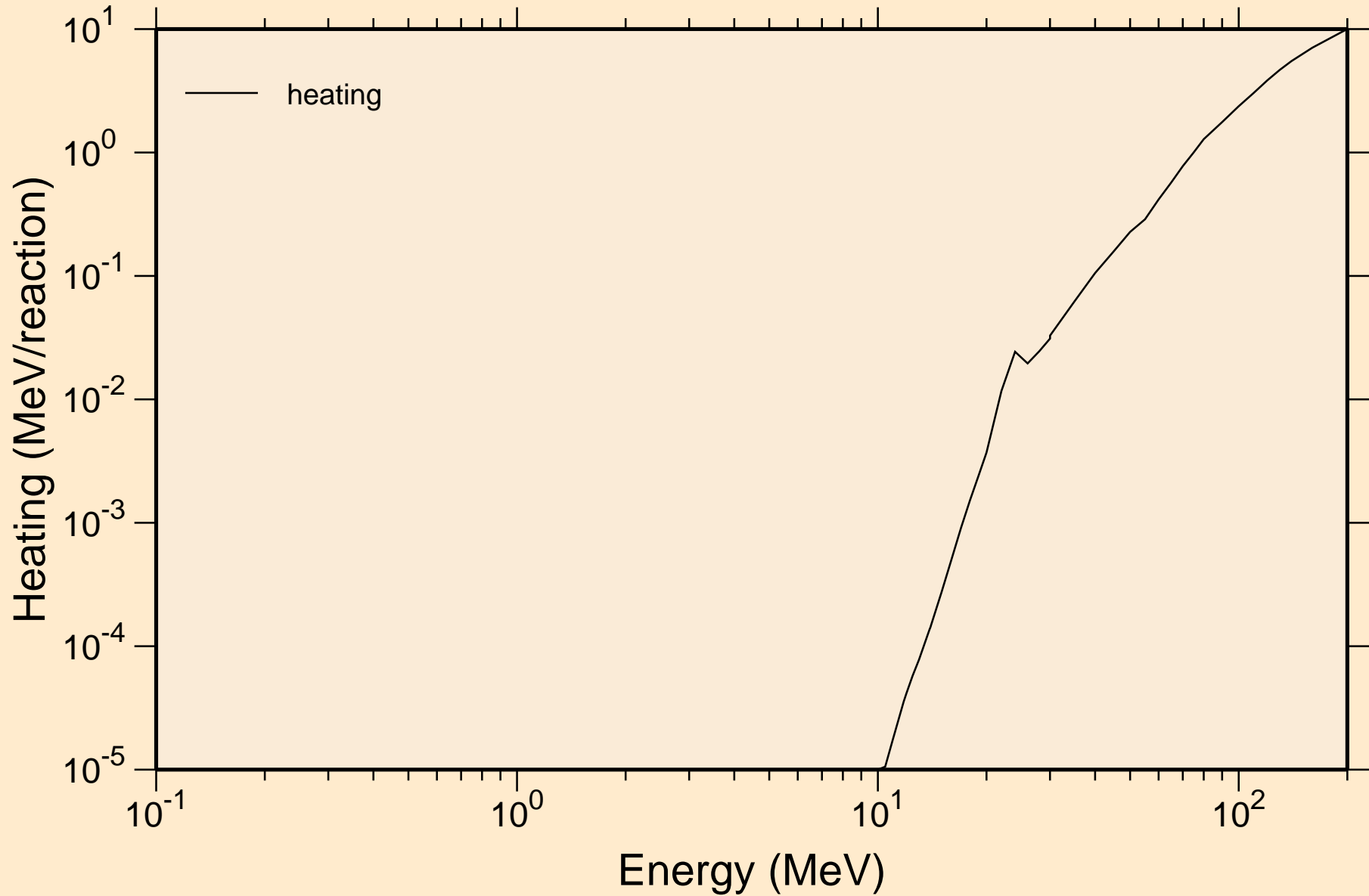


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Principal cross sections



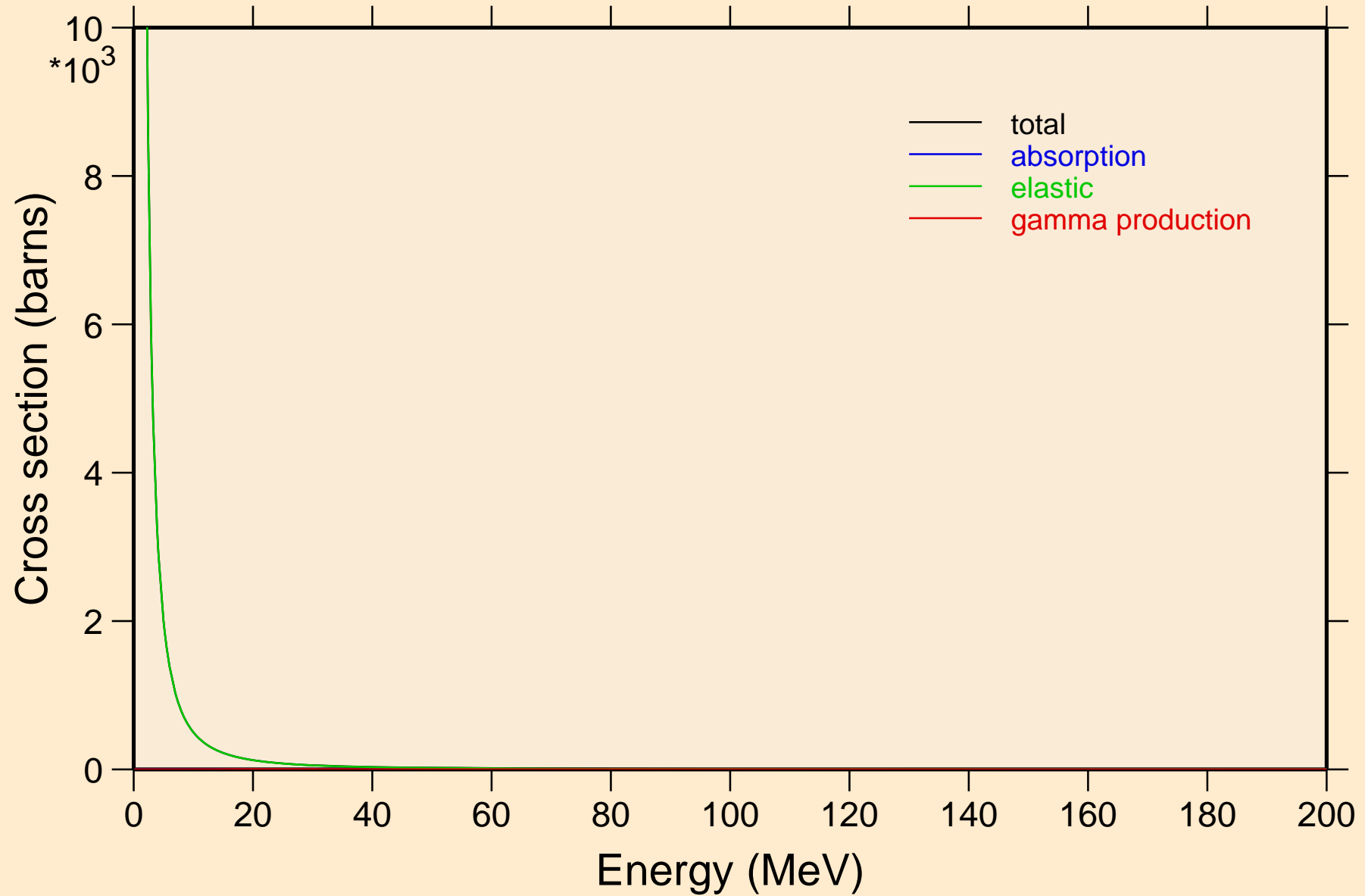
# TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Heating



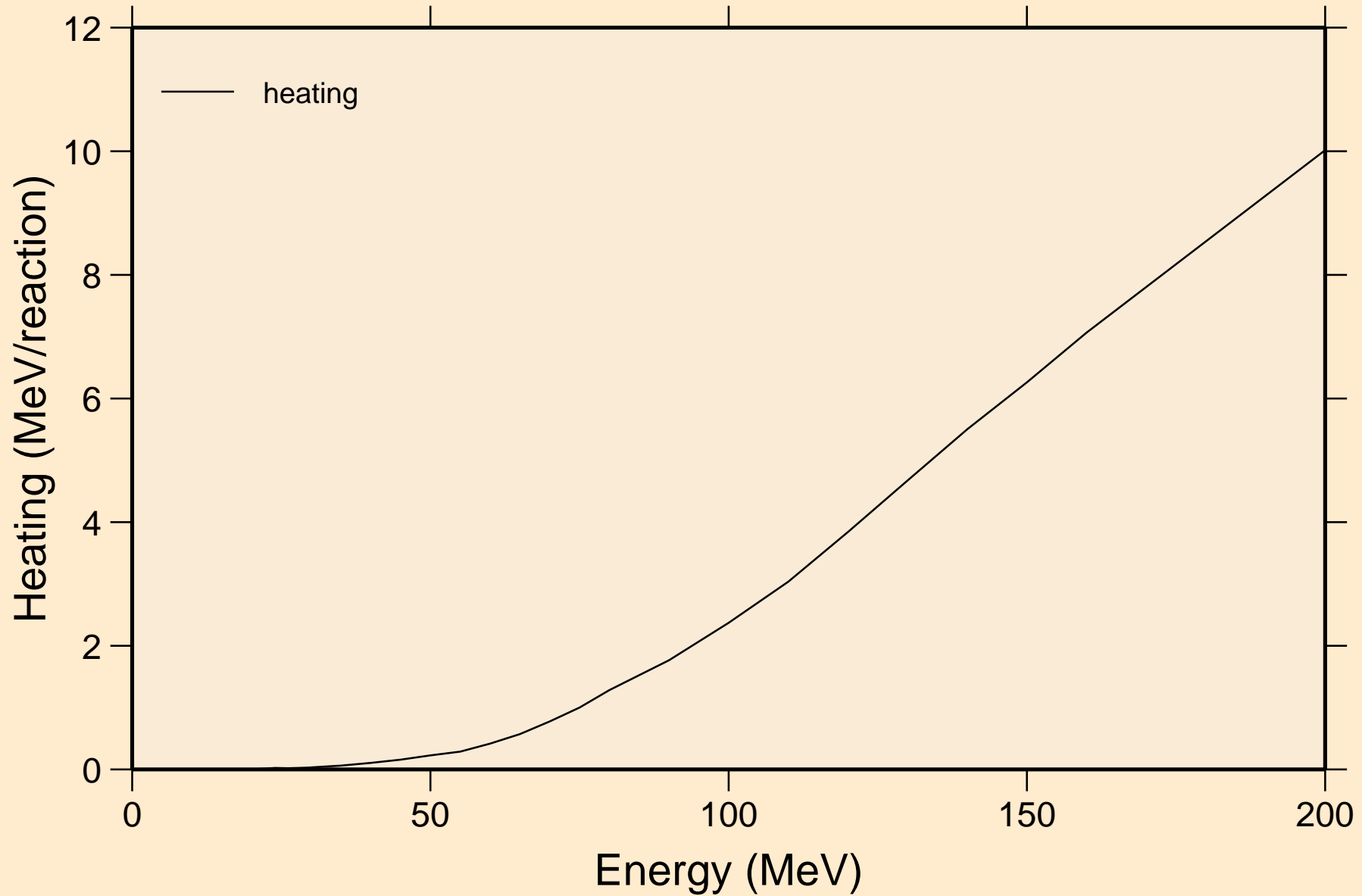
# TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections

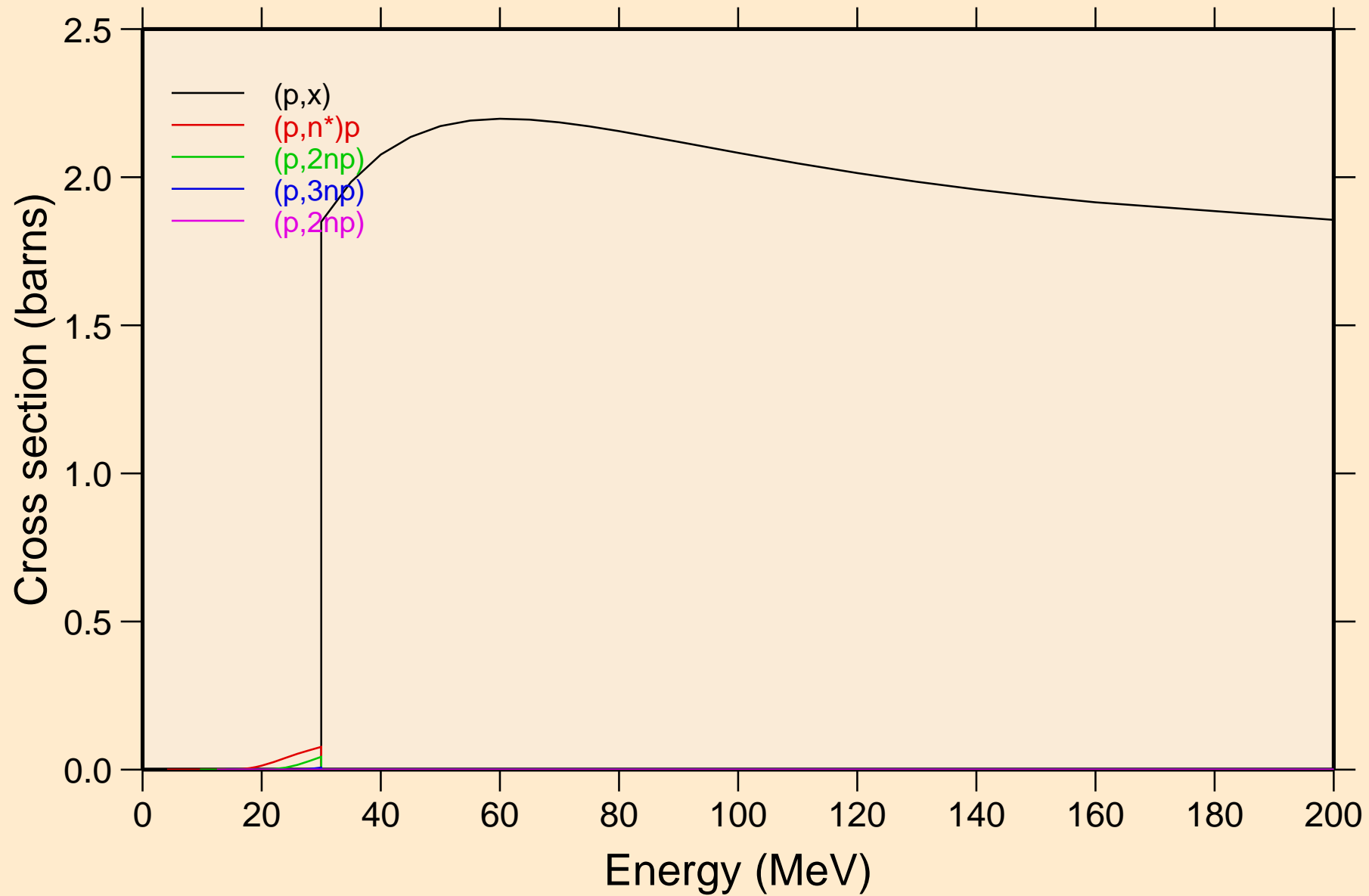


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

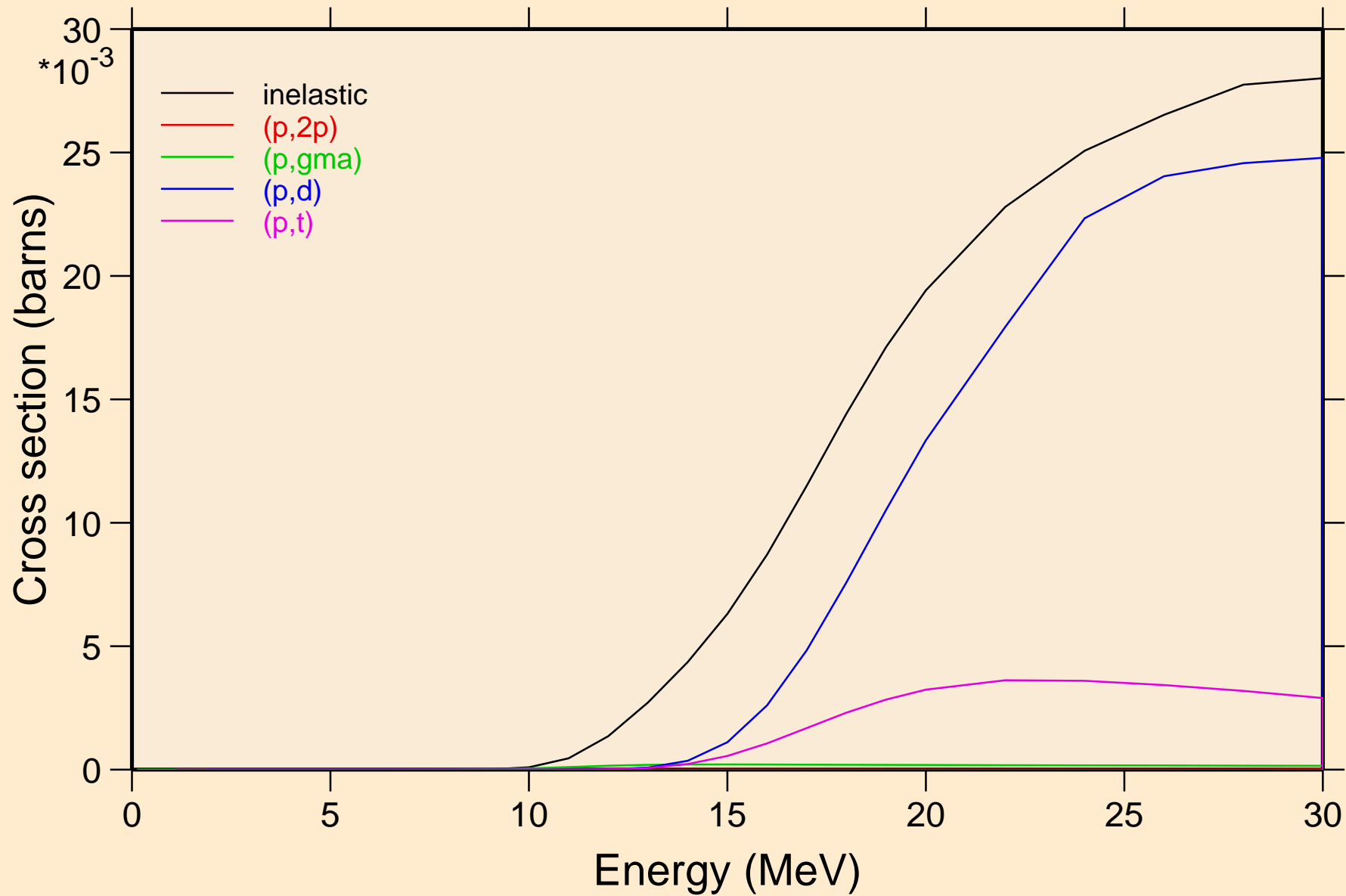
Heating



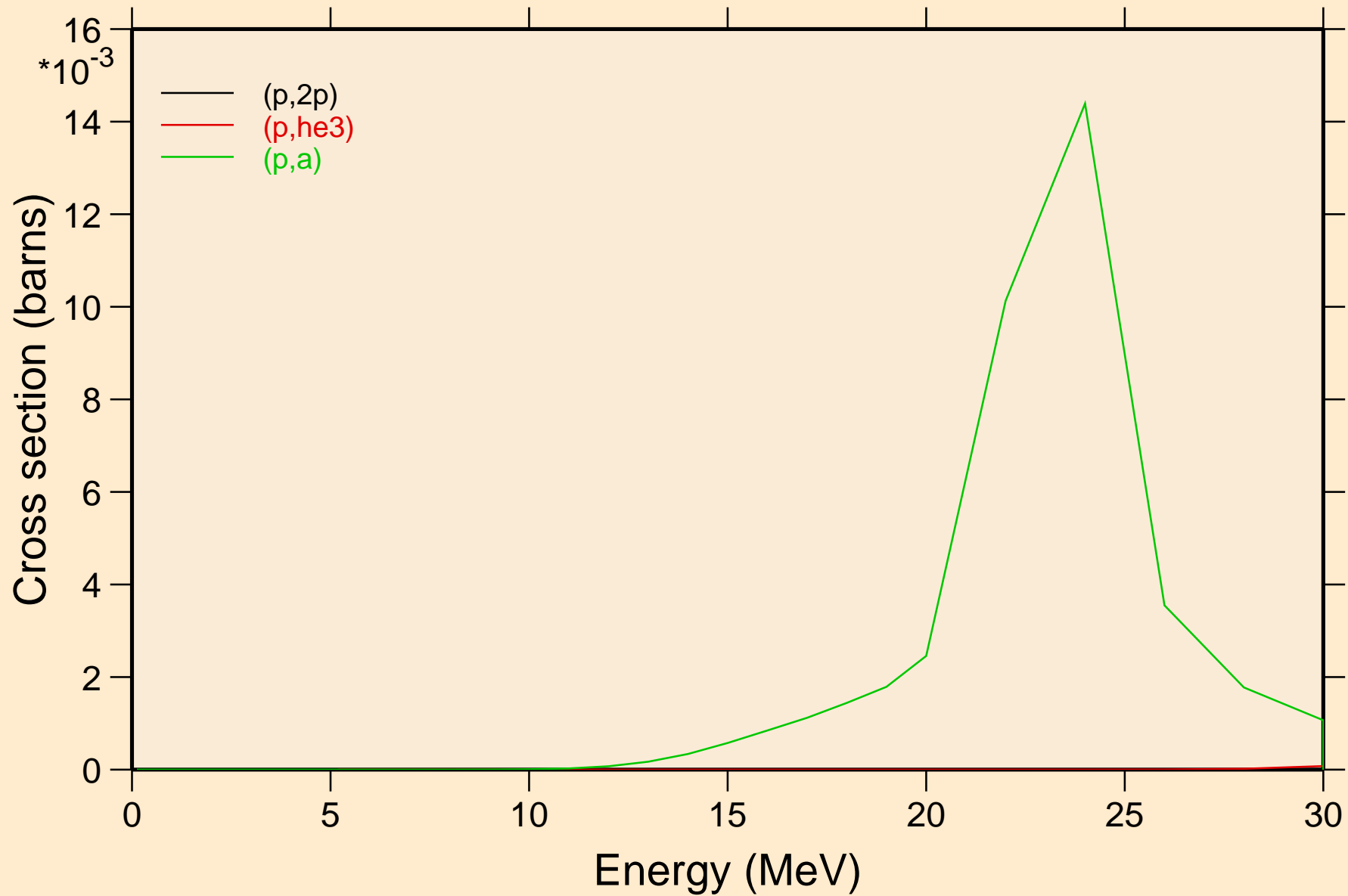
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



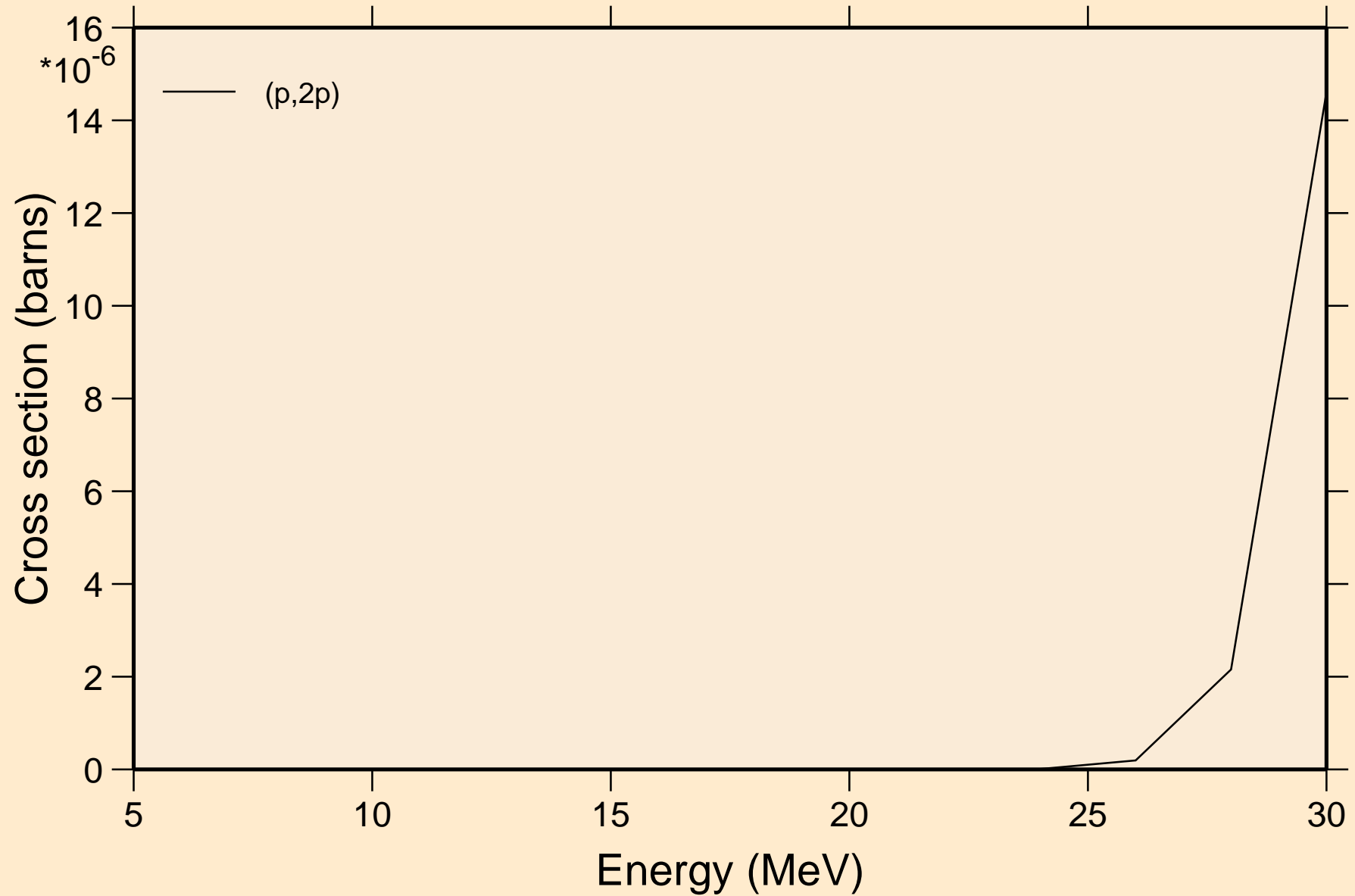
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

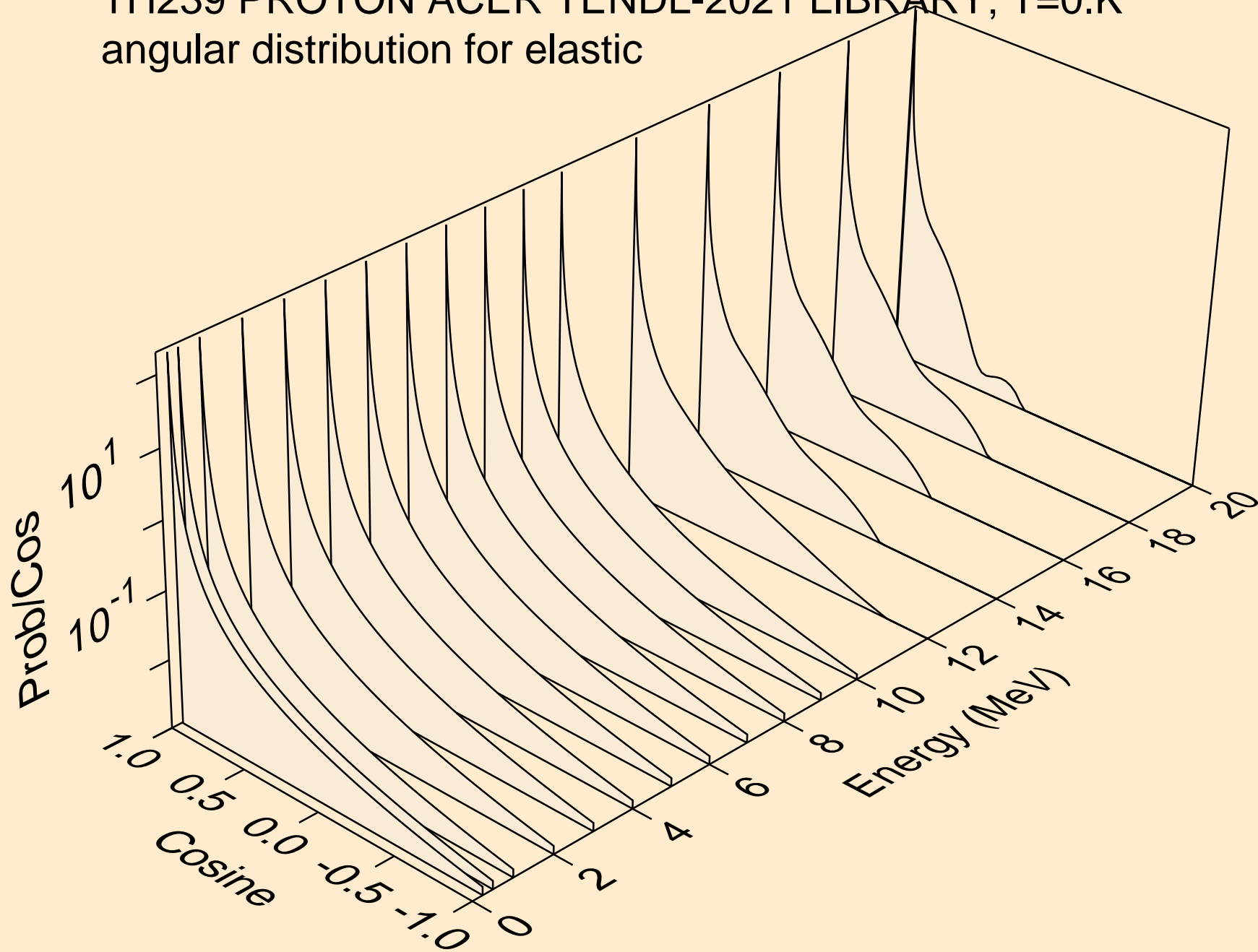


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

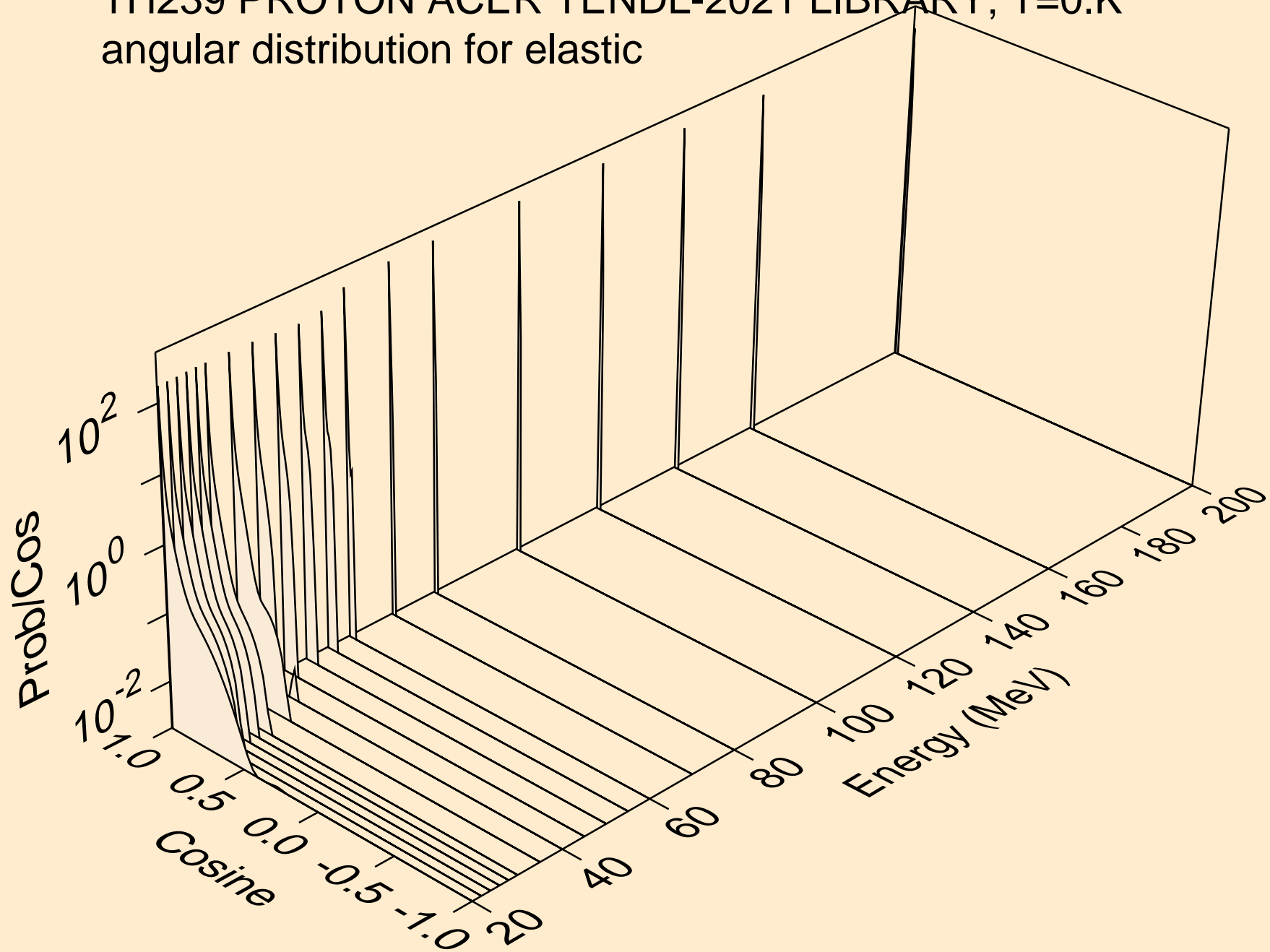




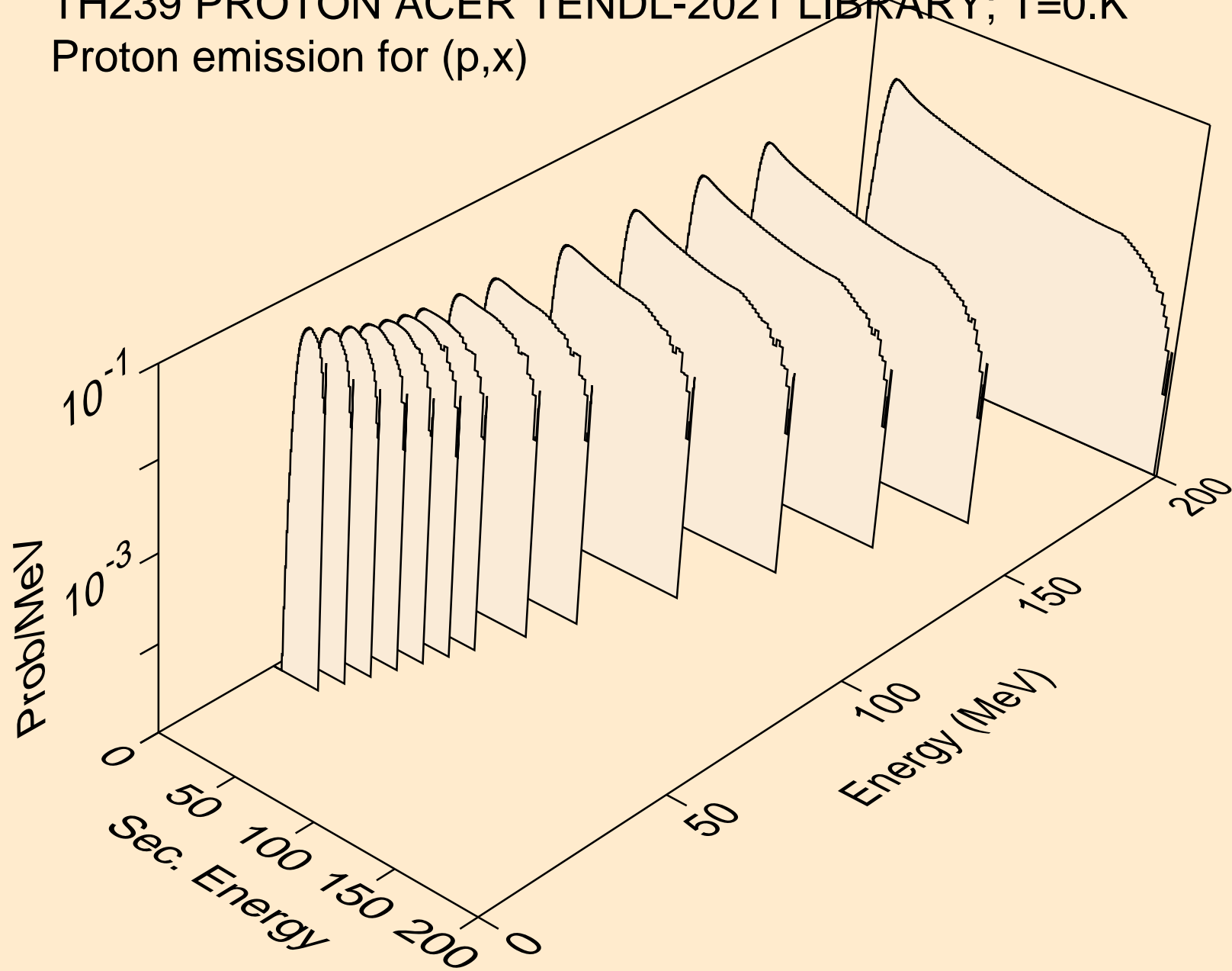
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



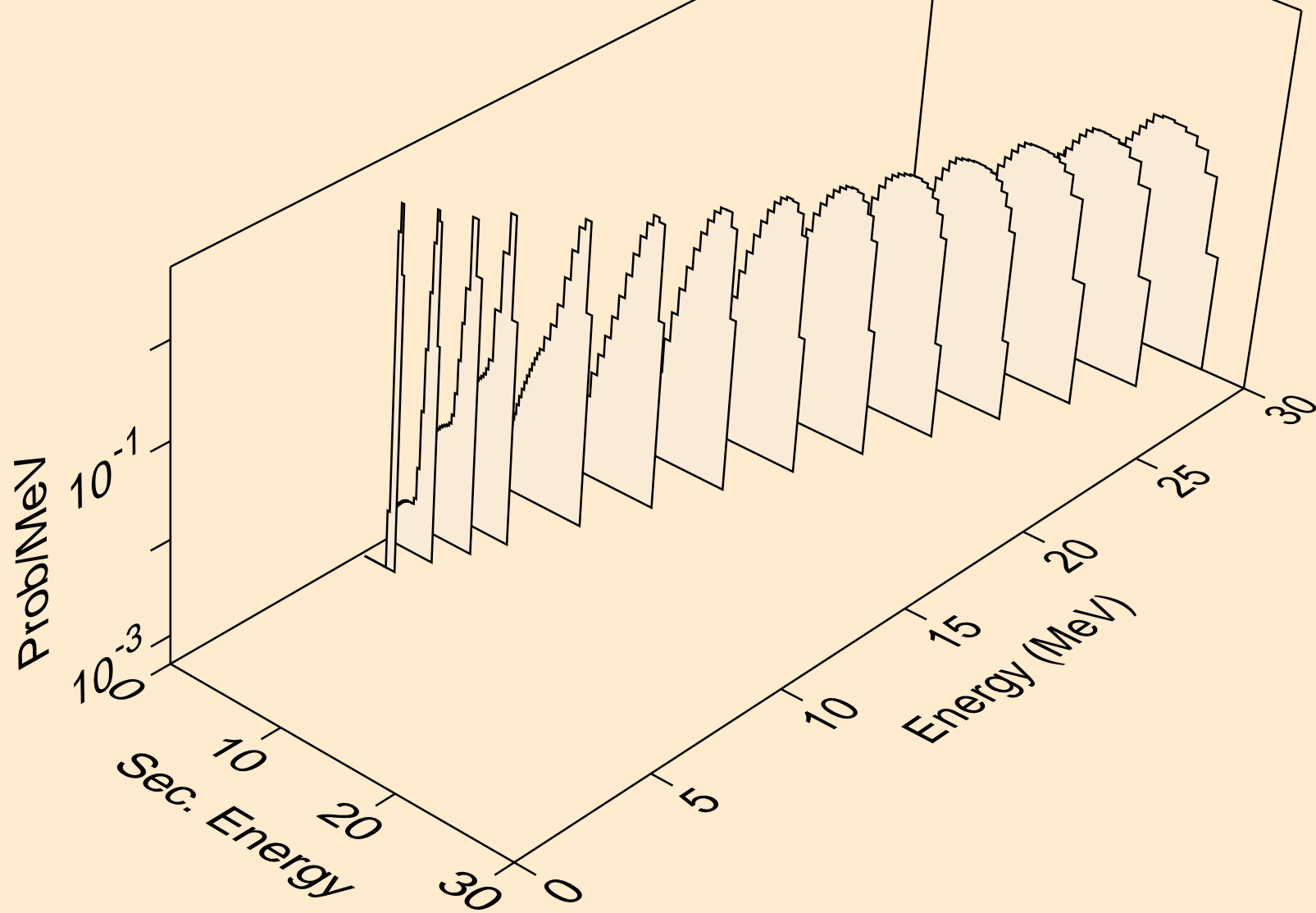
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



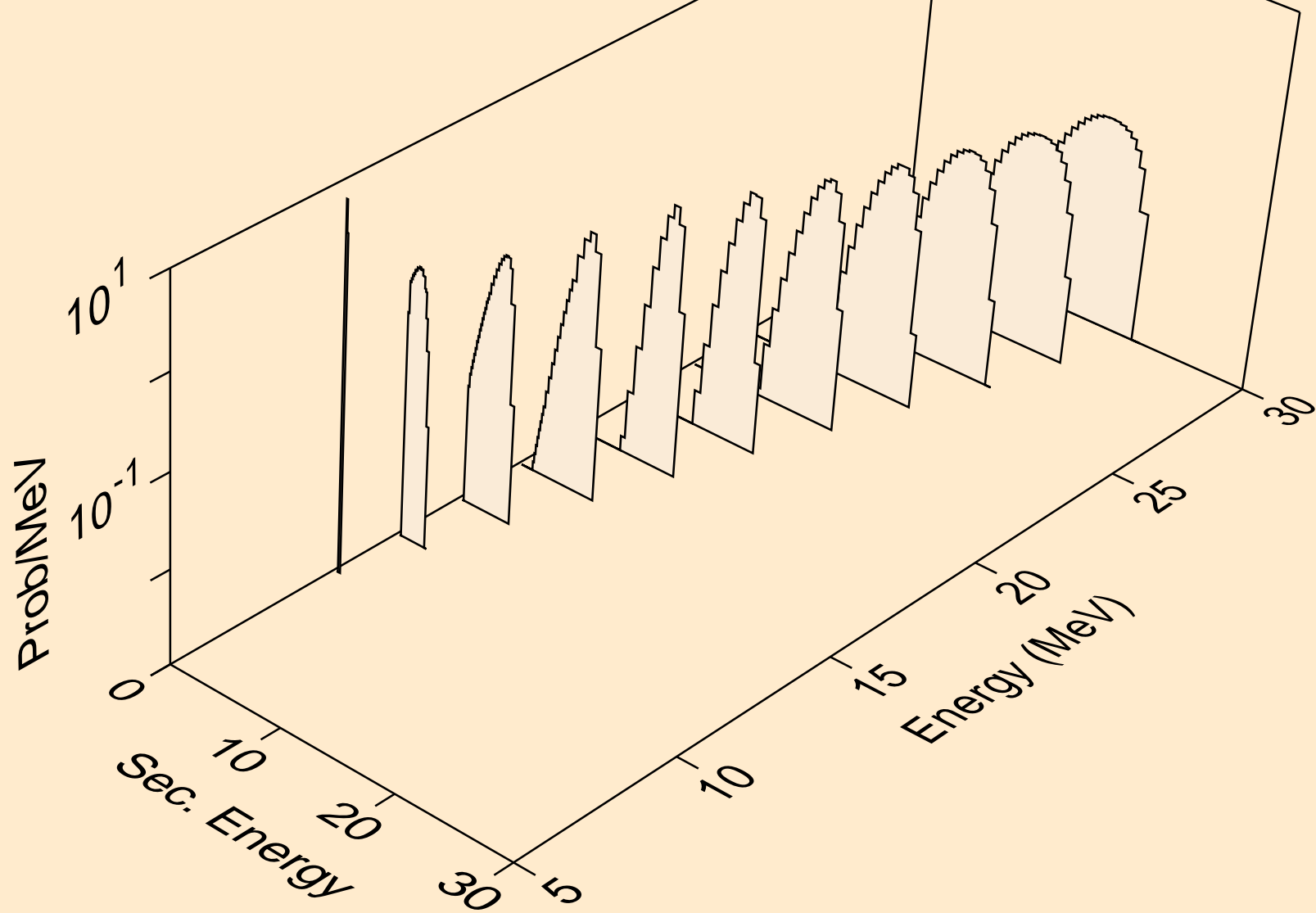
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,x)



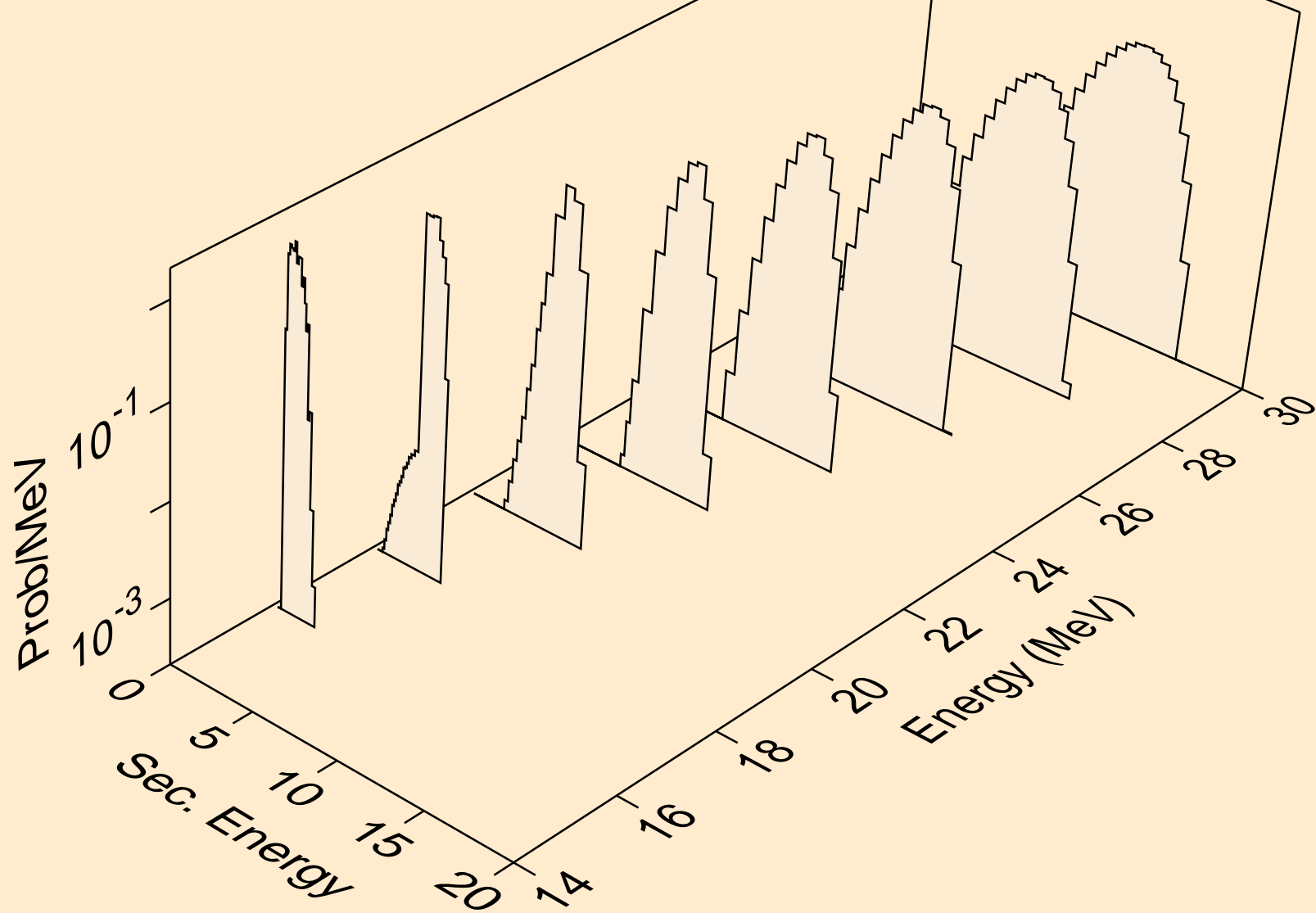
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,n\*)p



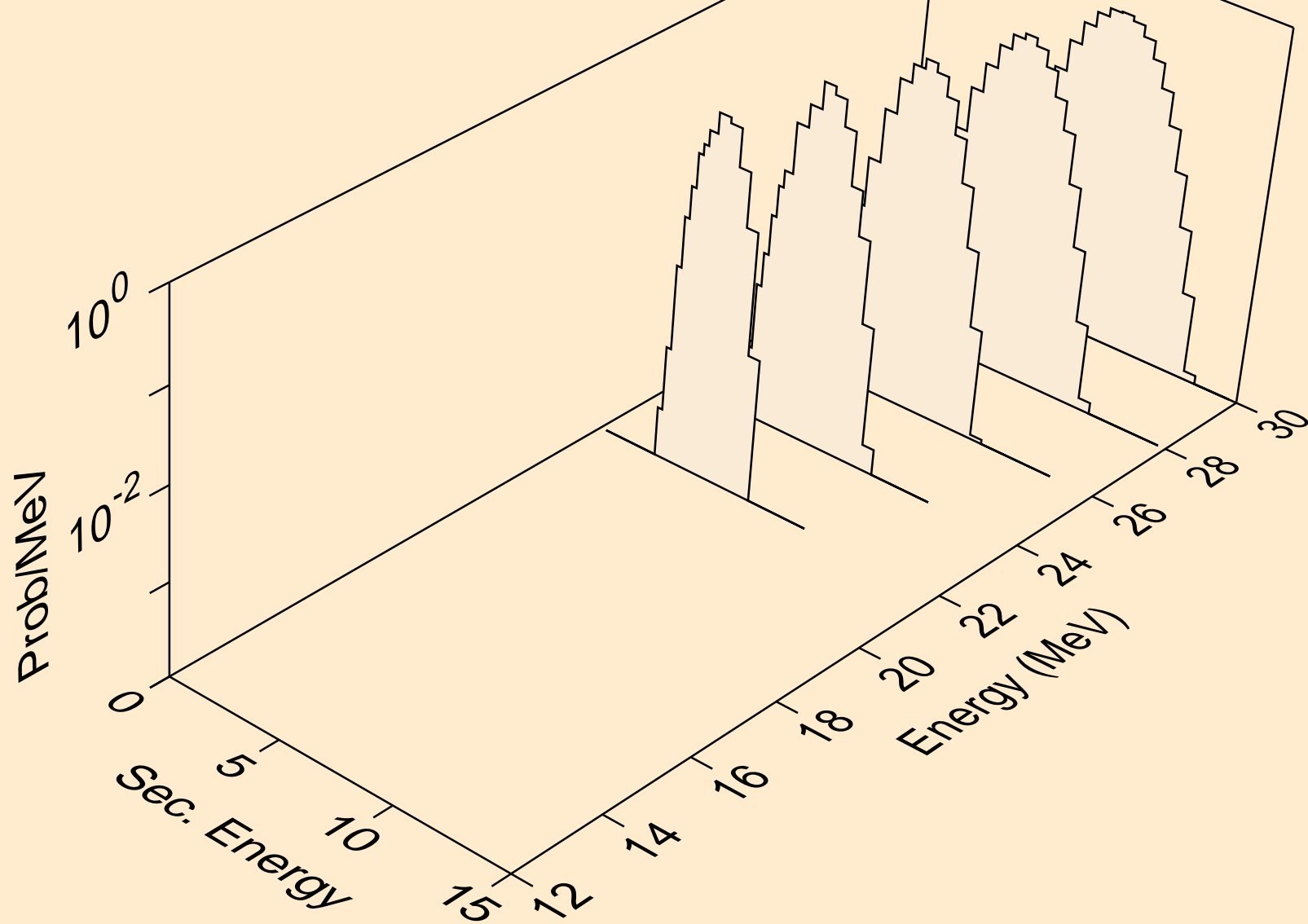
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)



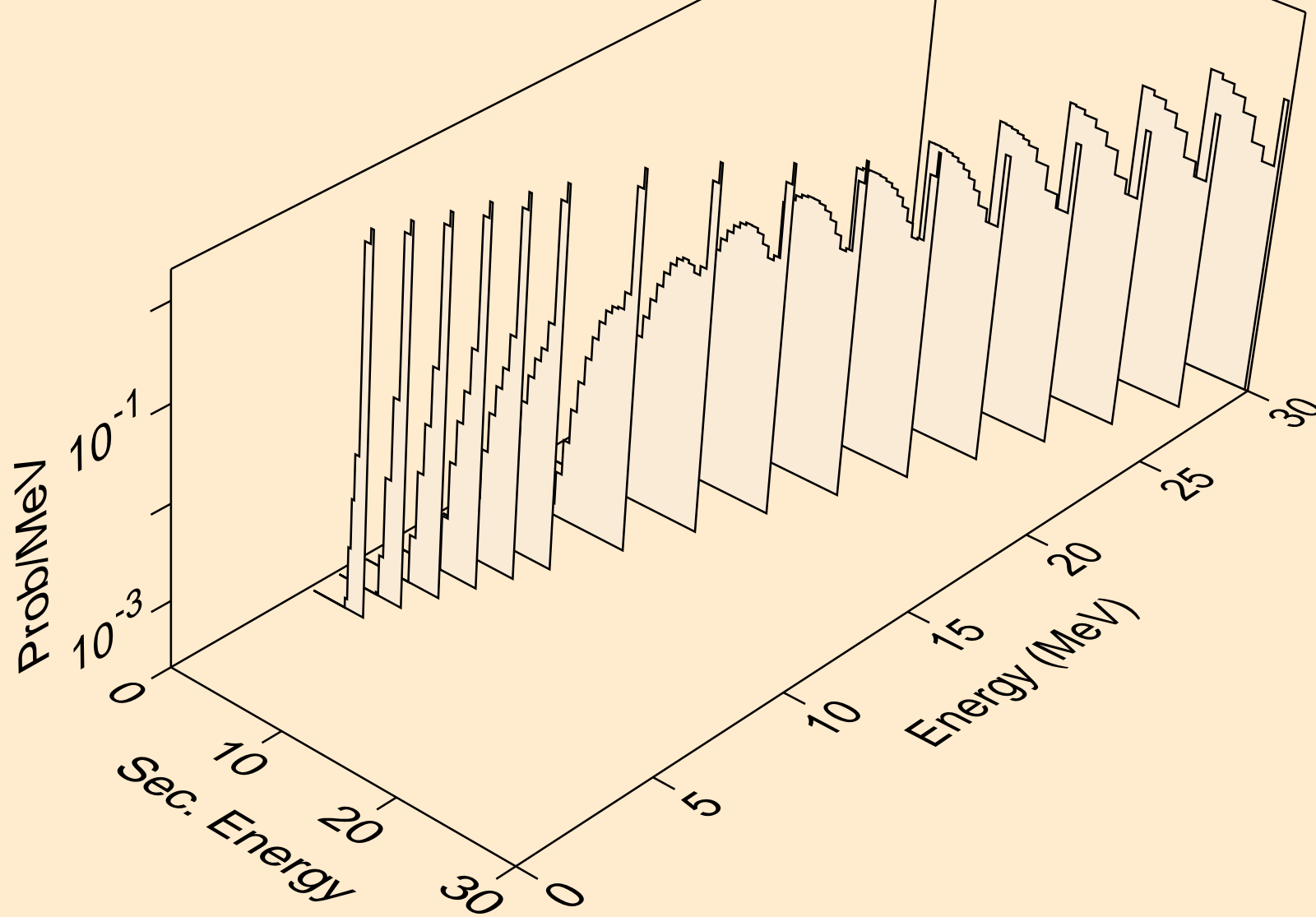
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,3np)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2np)

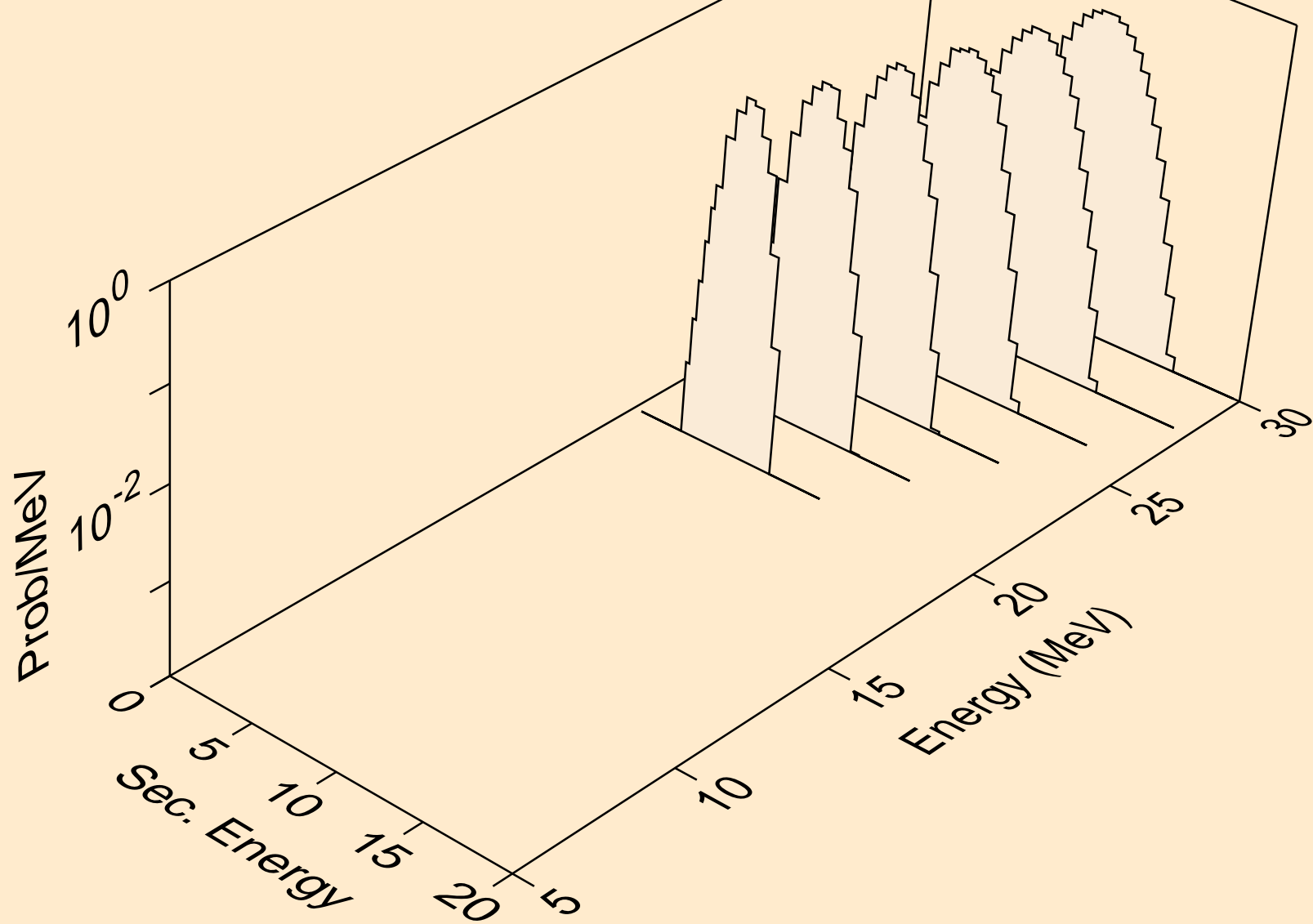


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for inelastic

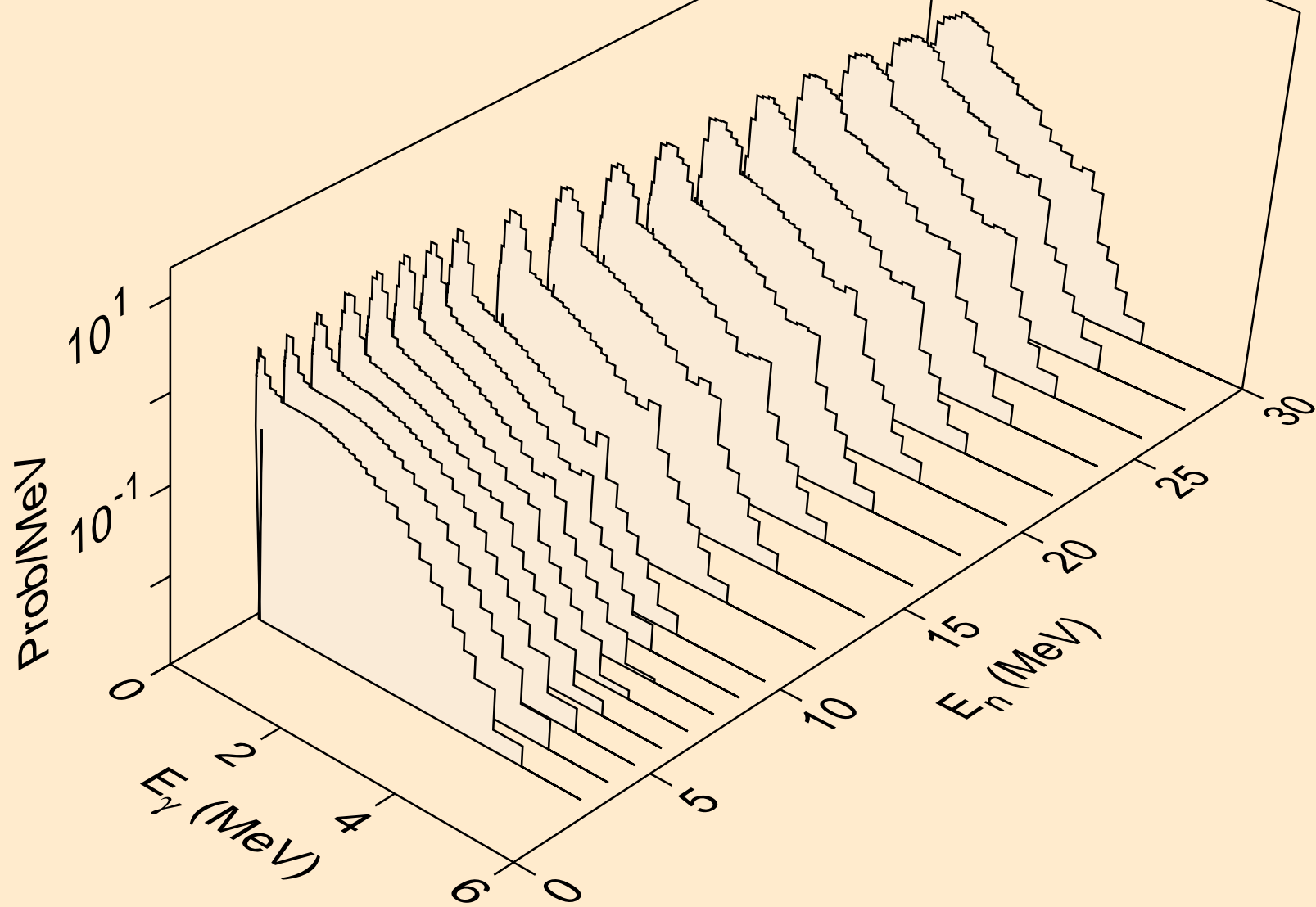




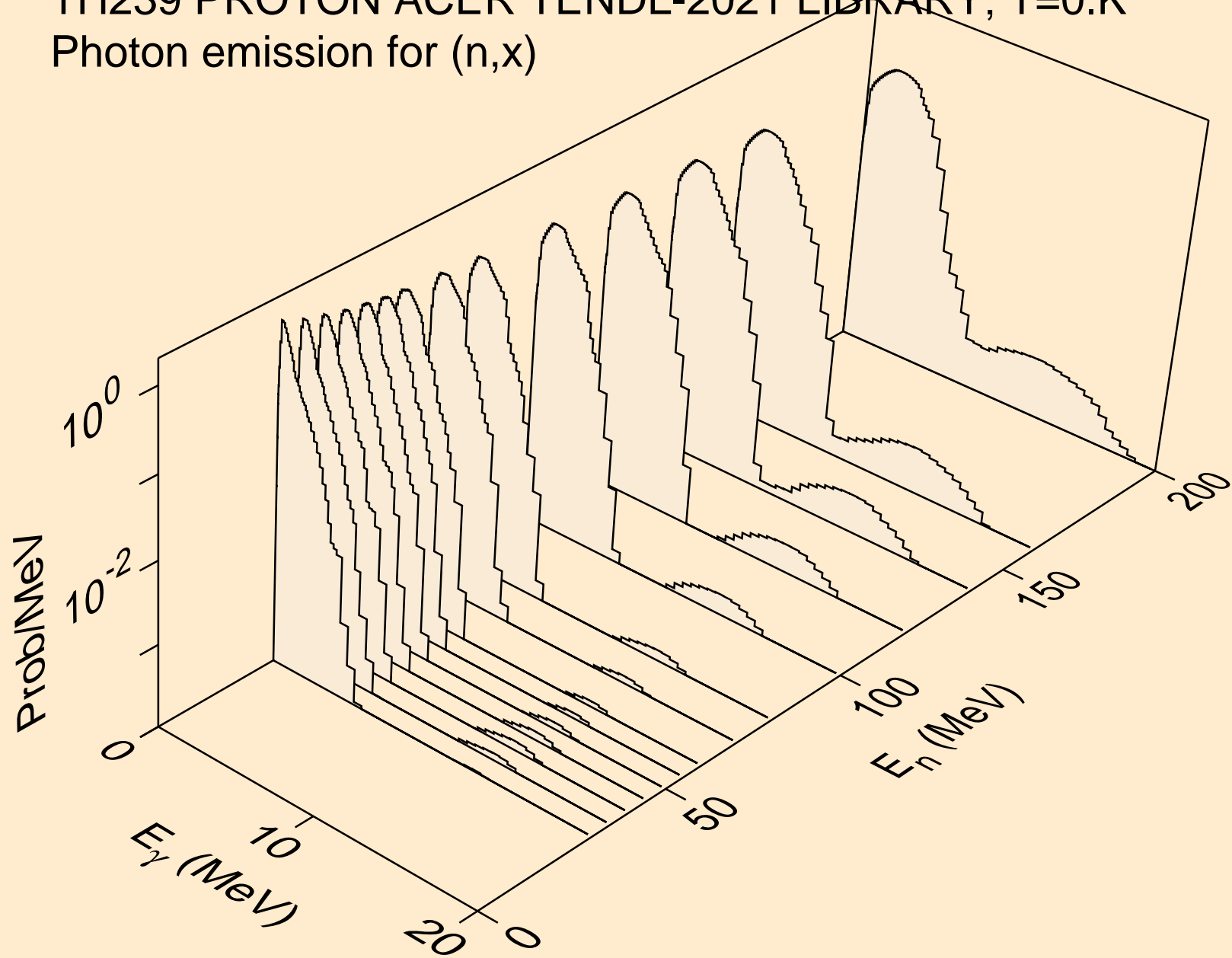
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Proton emission for (p,2p)



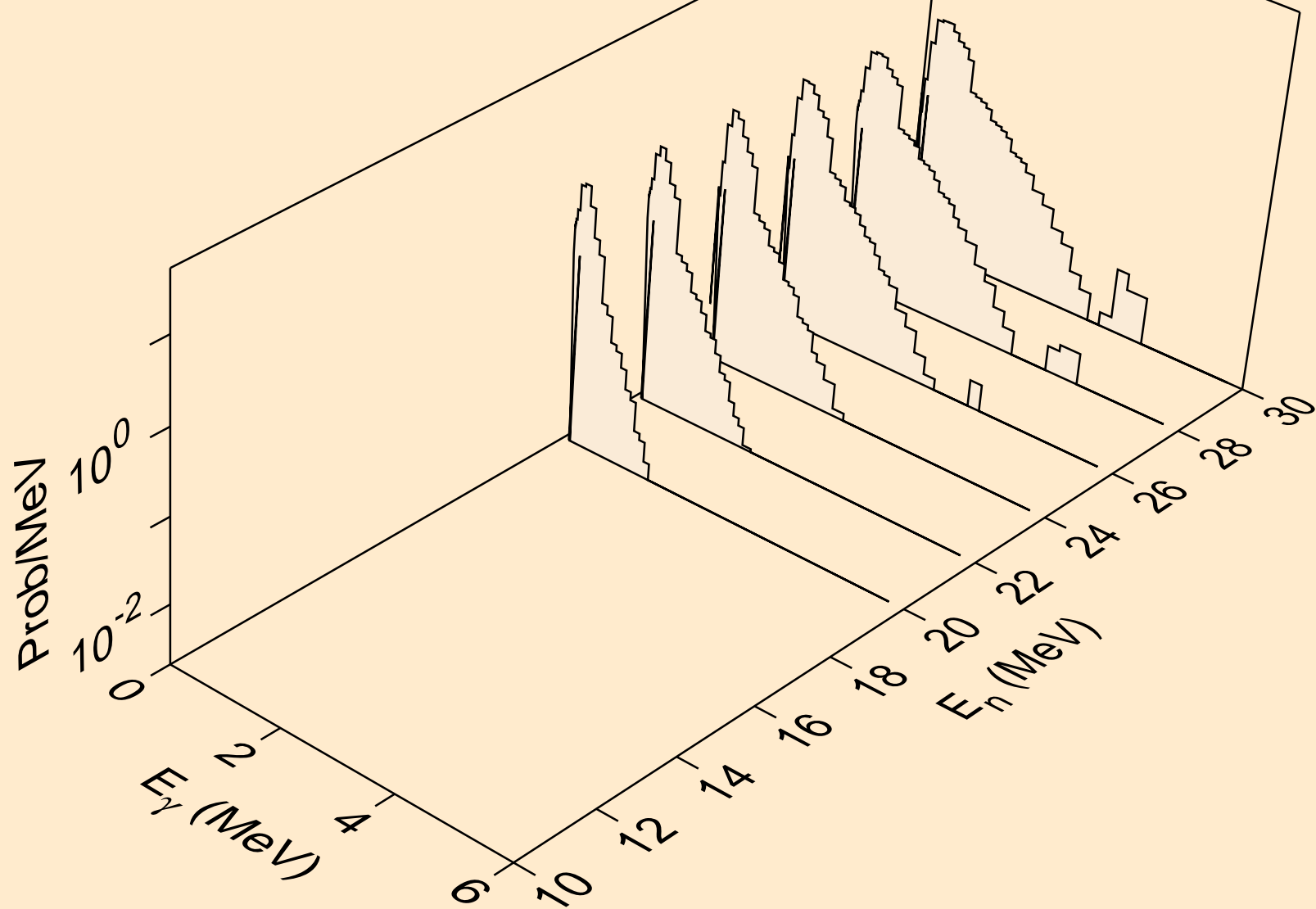
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



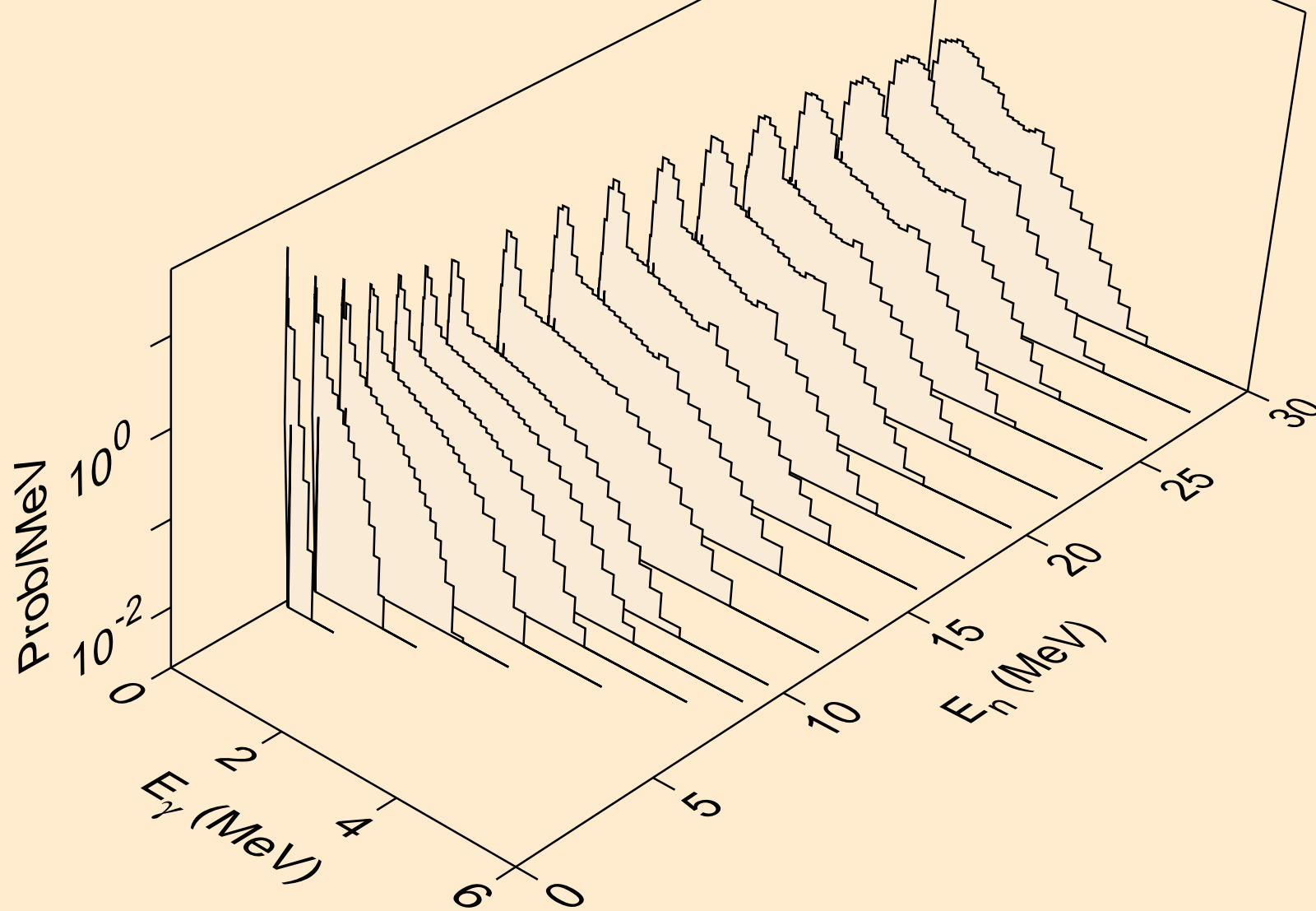
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



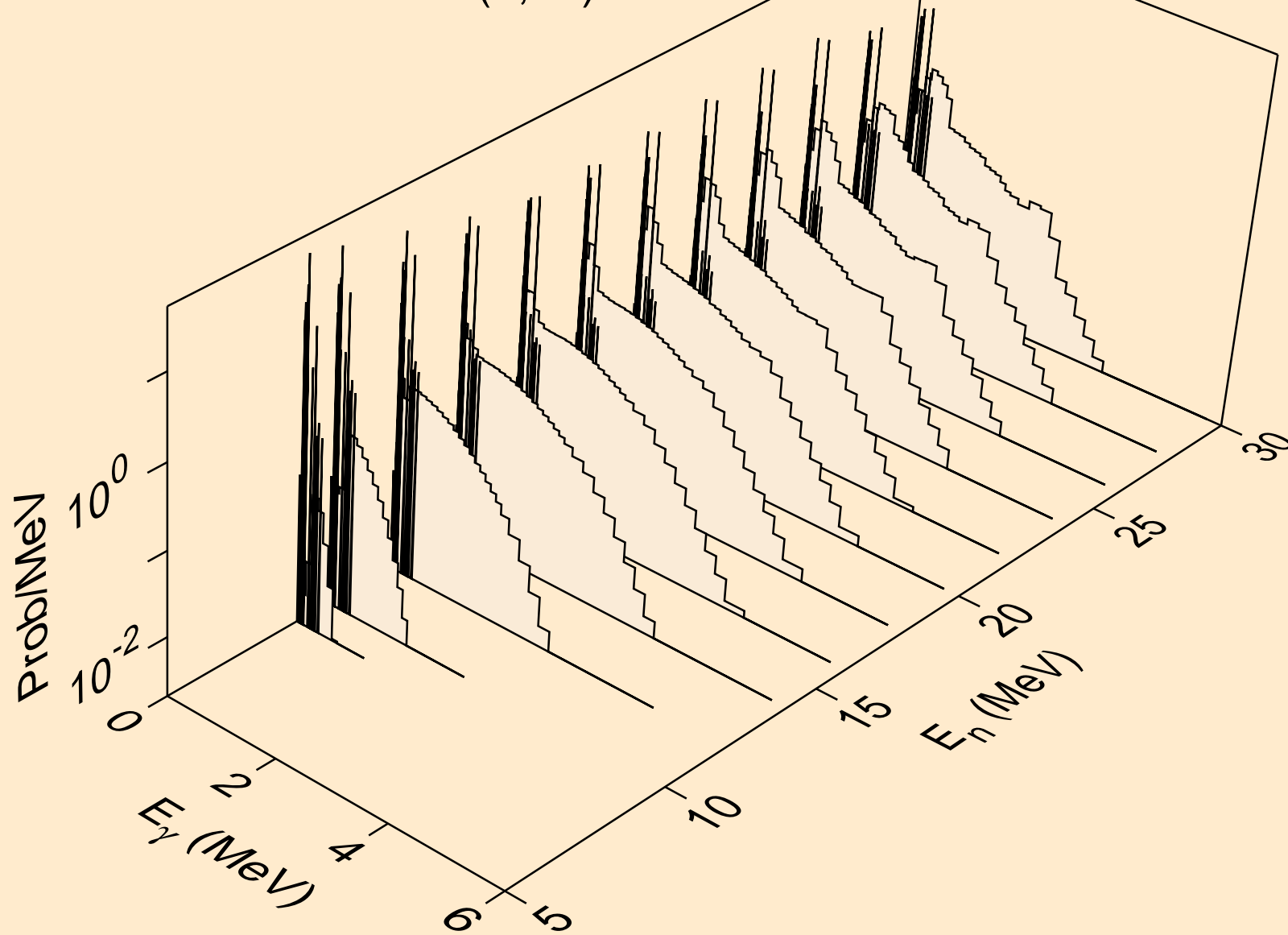
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2nd)



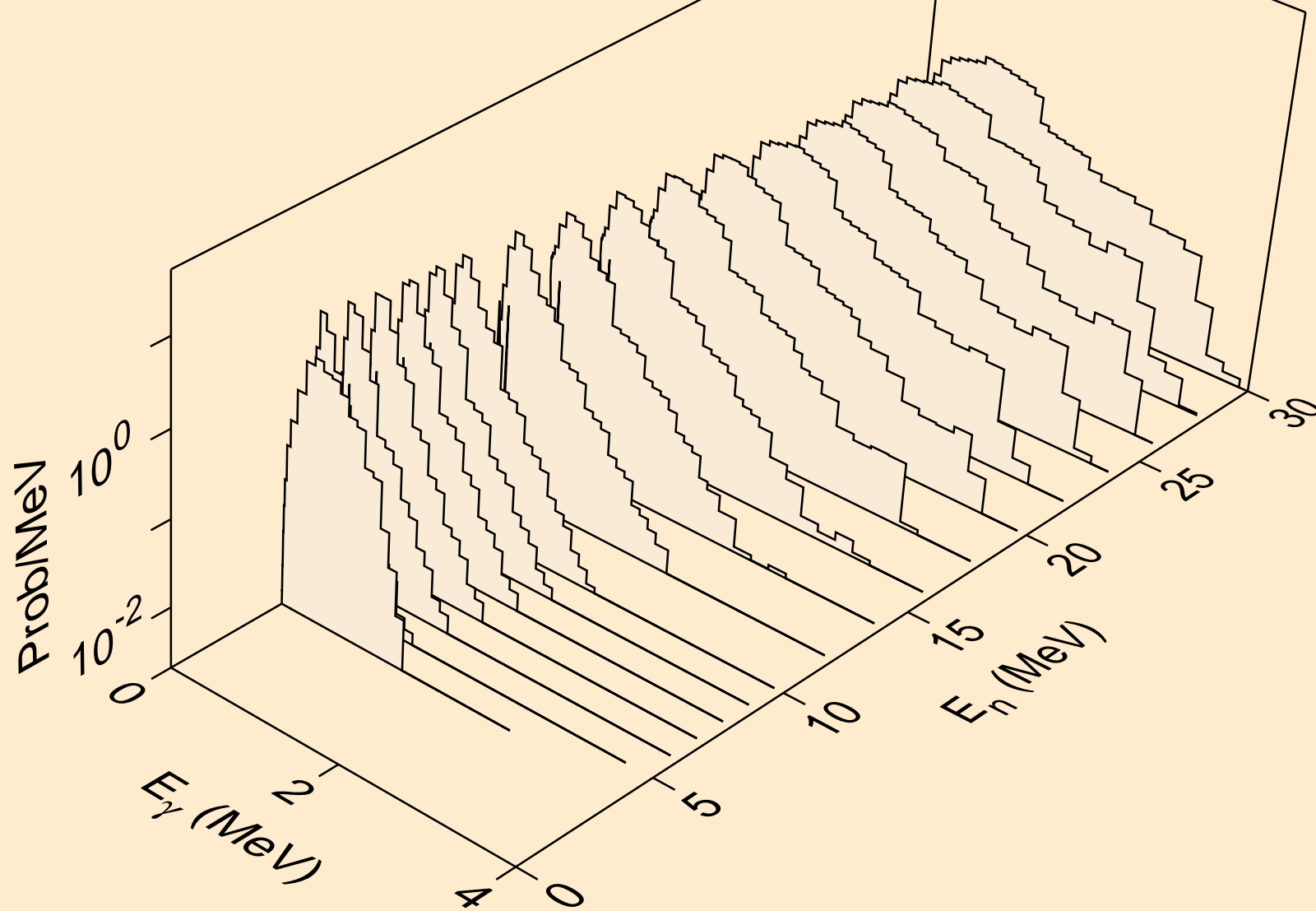
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



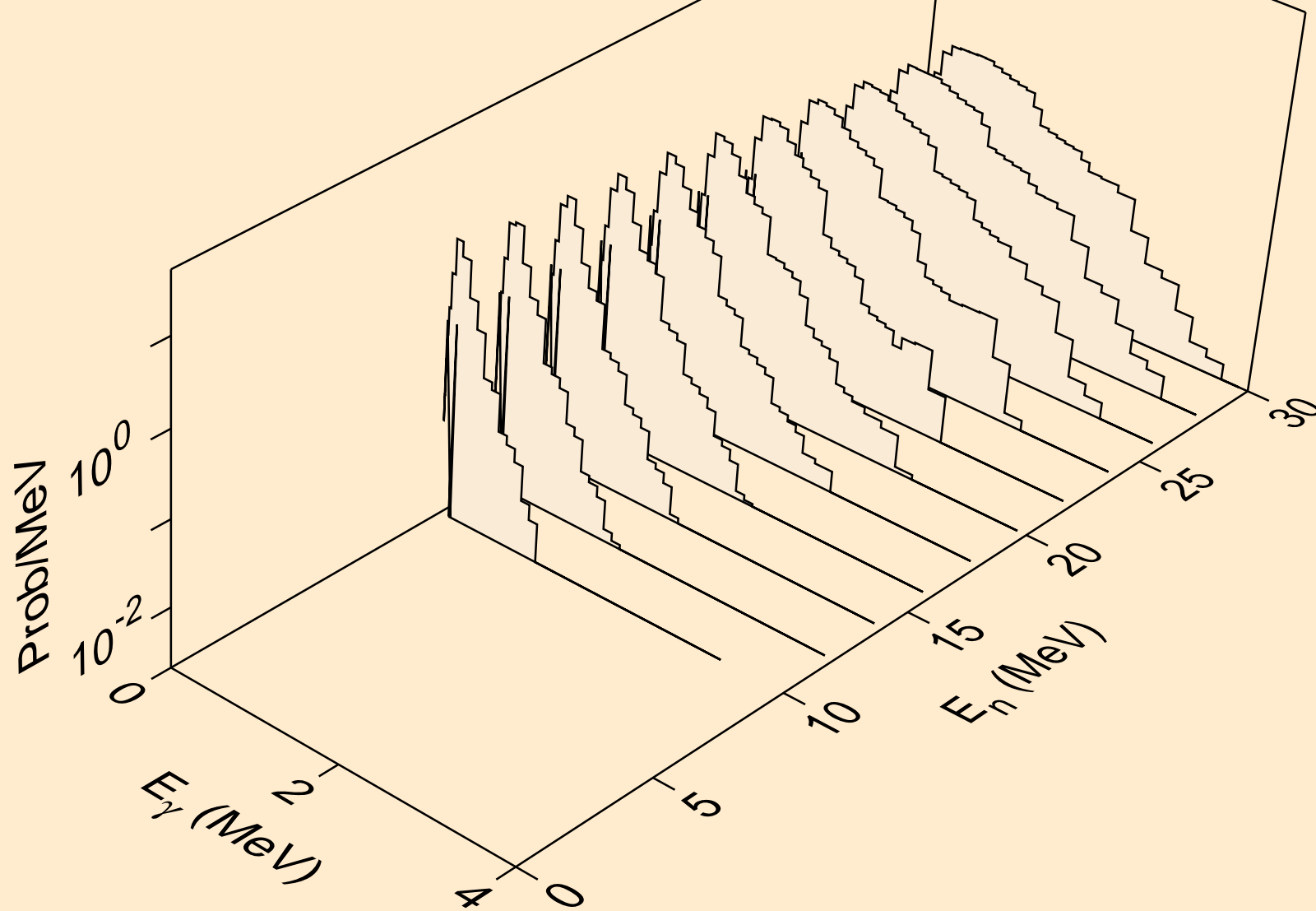
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

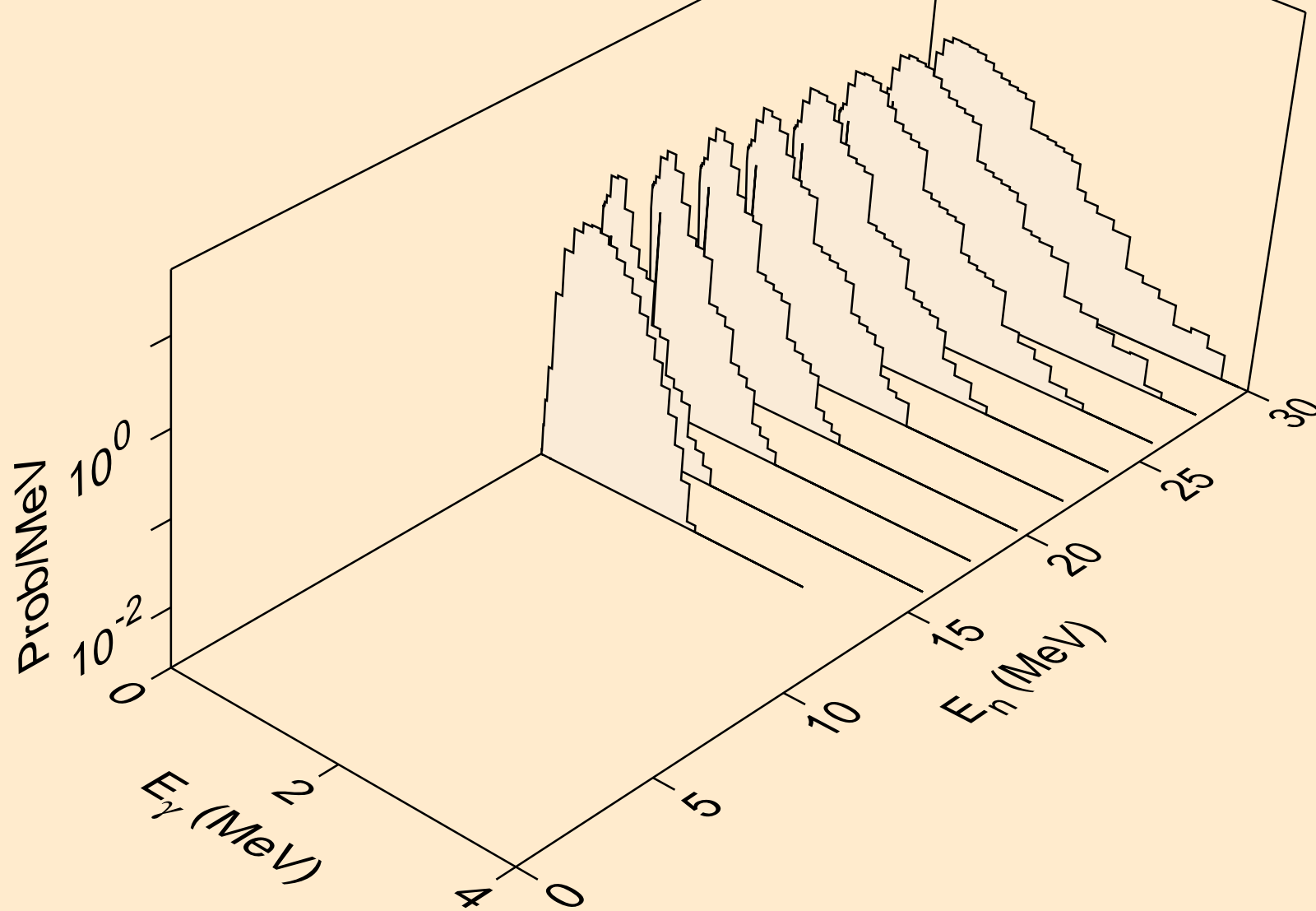


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n) $\alpha$

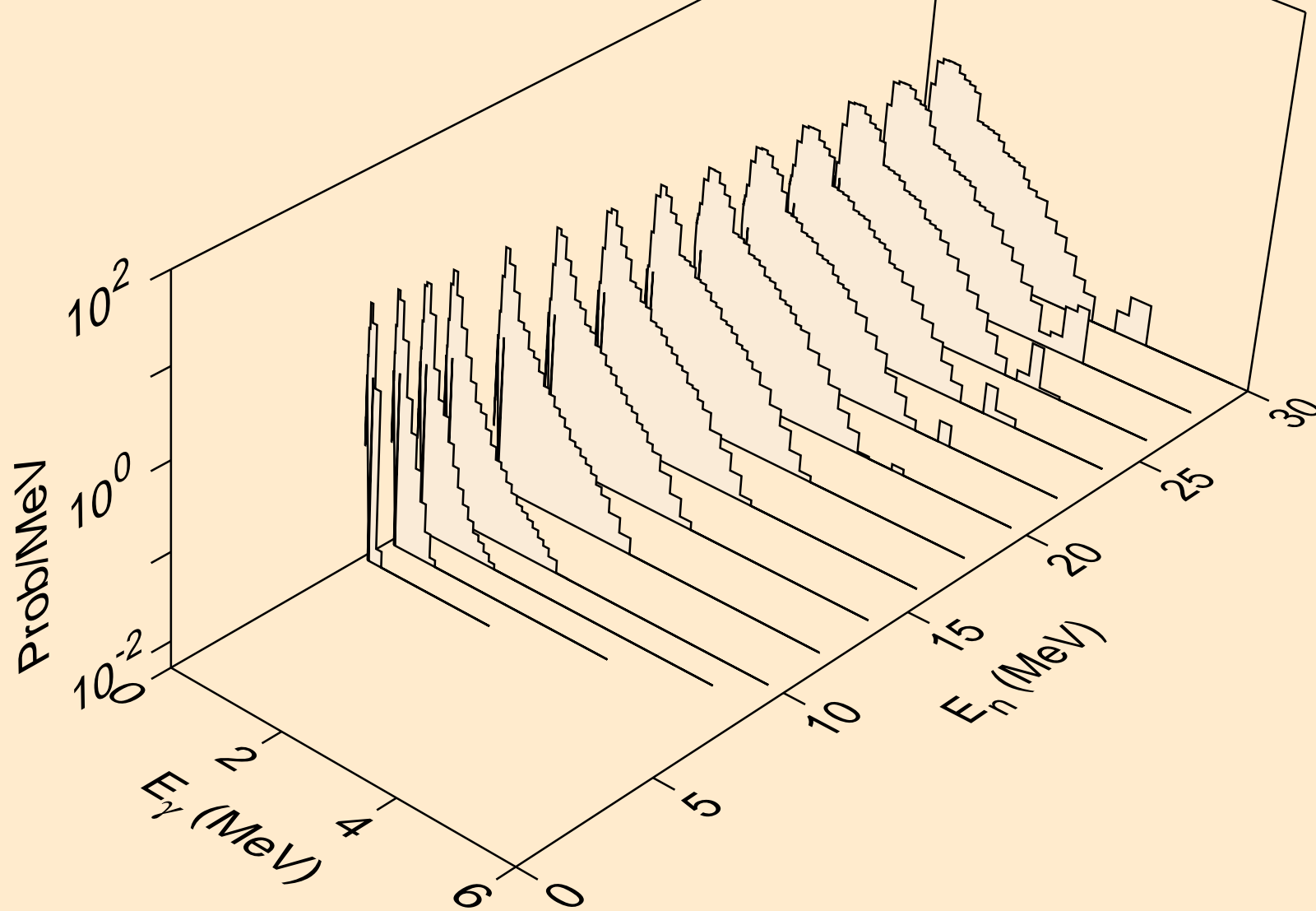




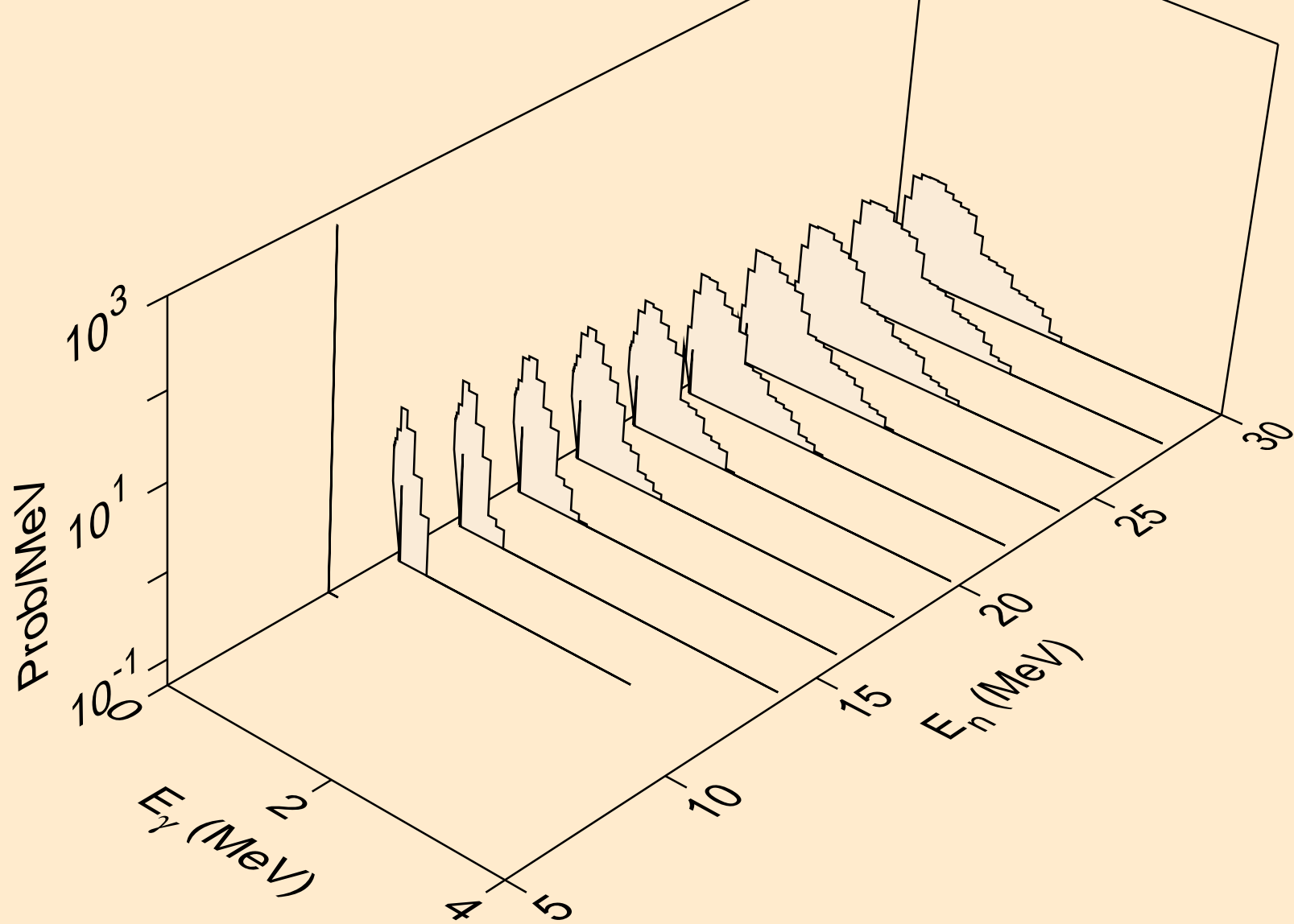
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3n)a



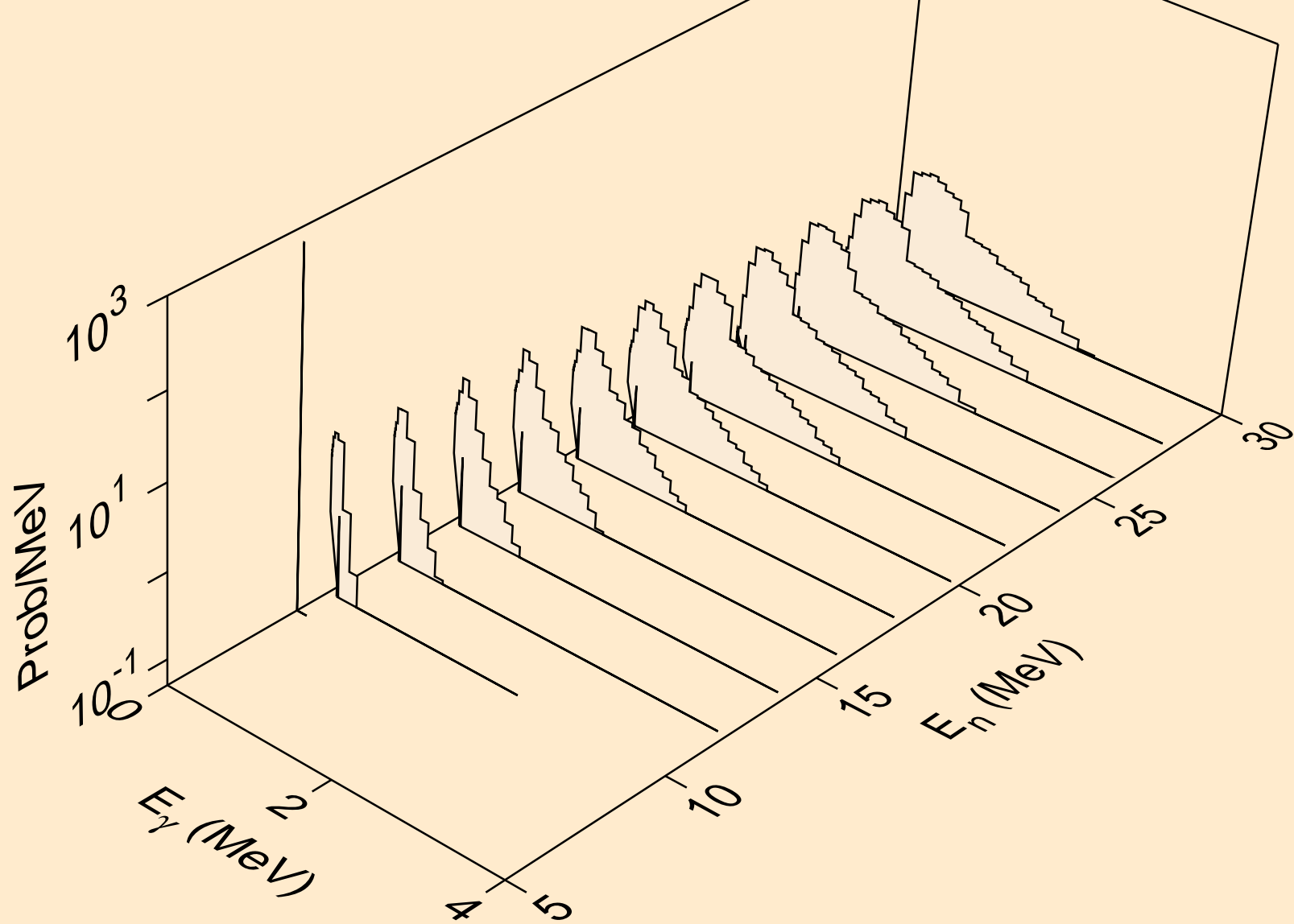
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



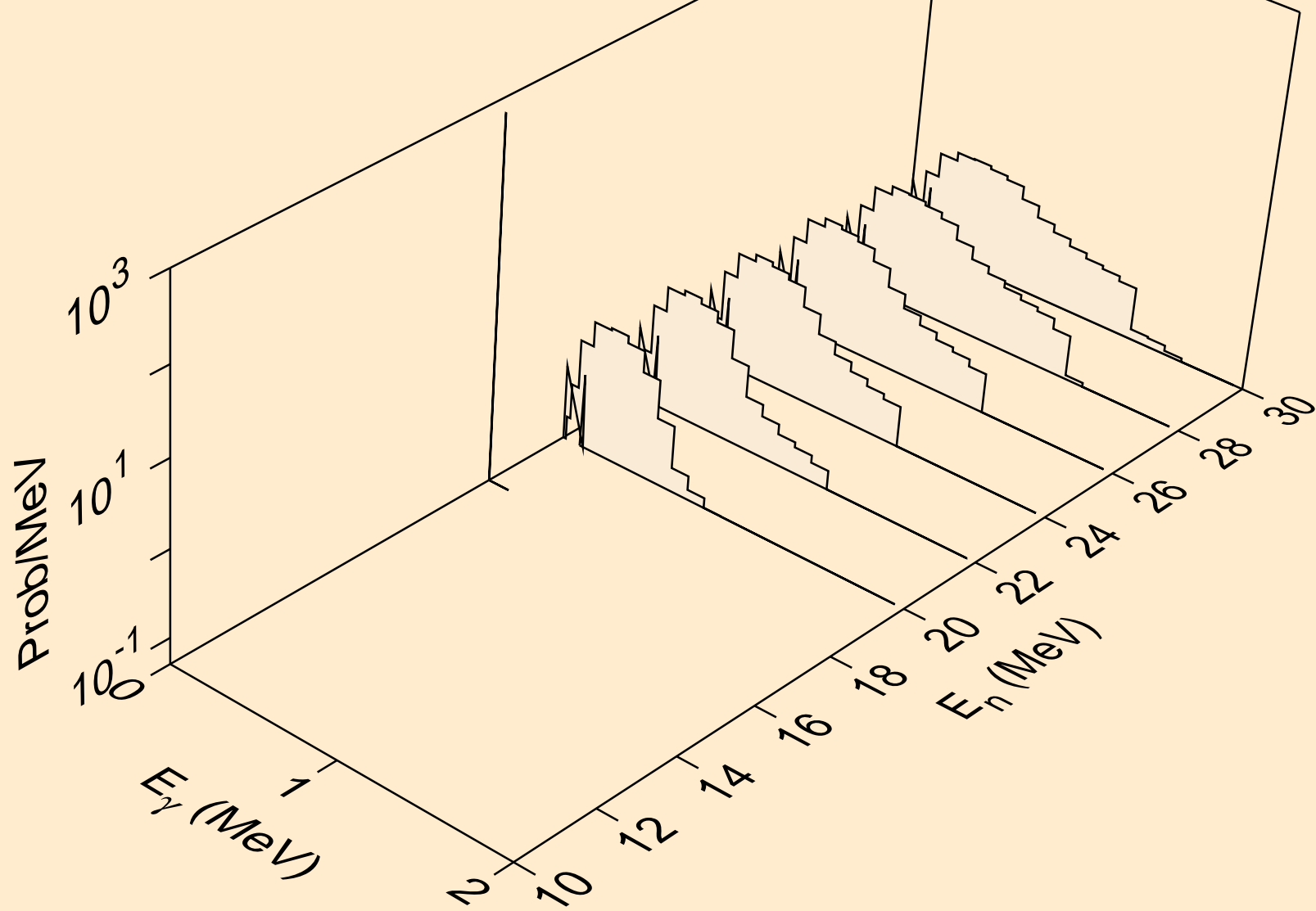
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



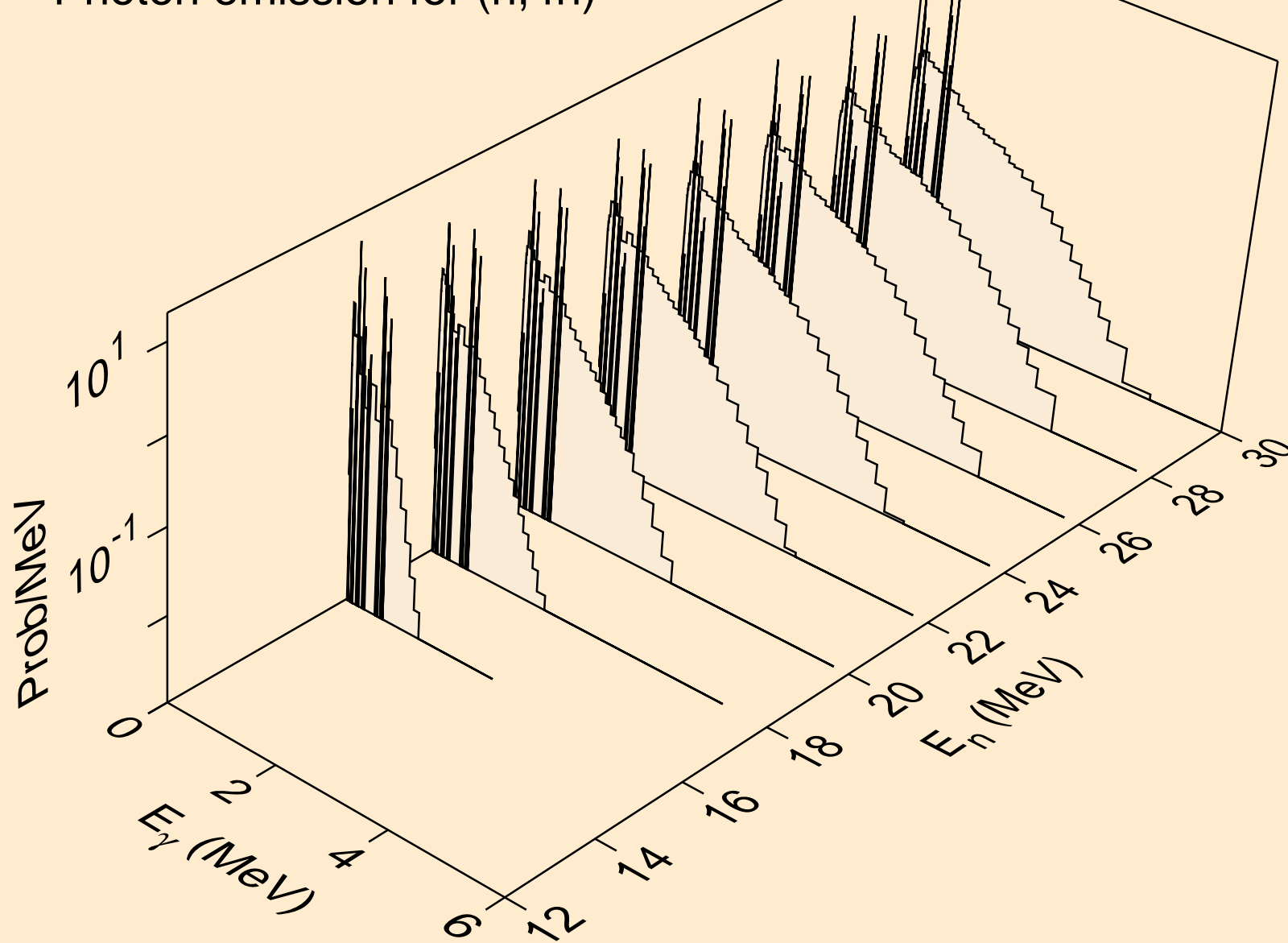
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



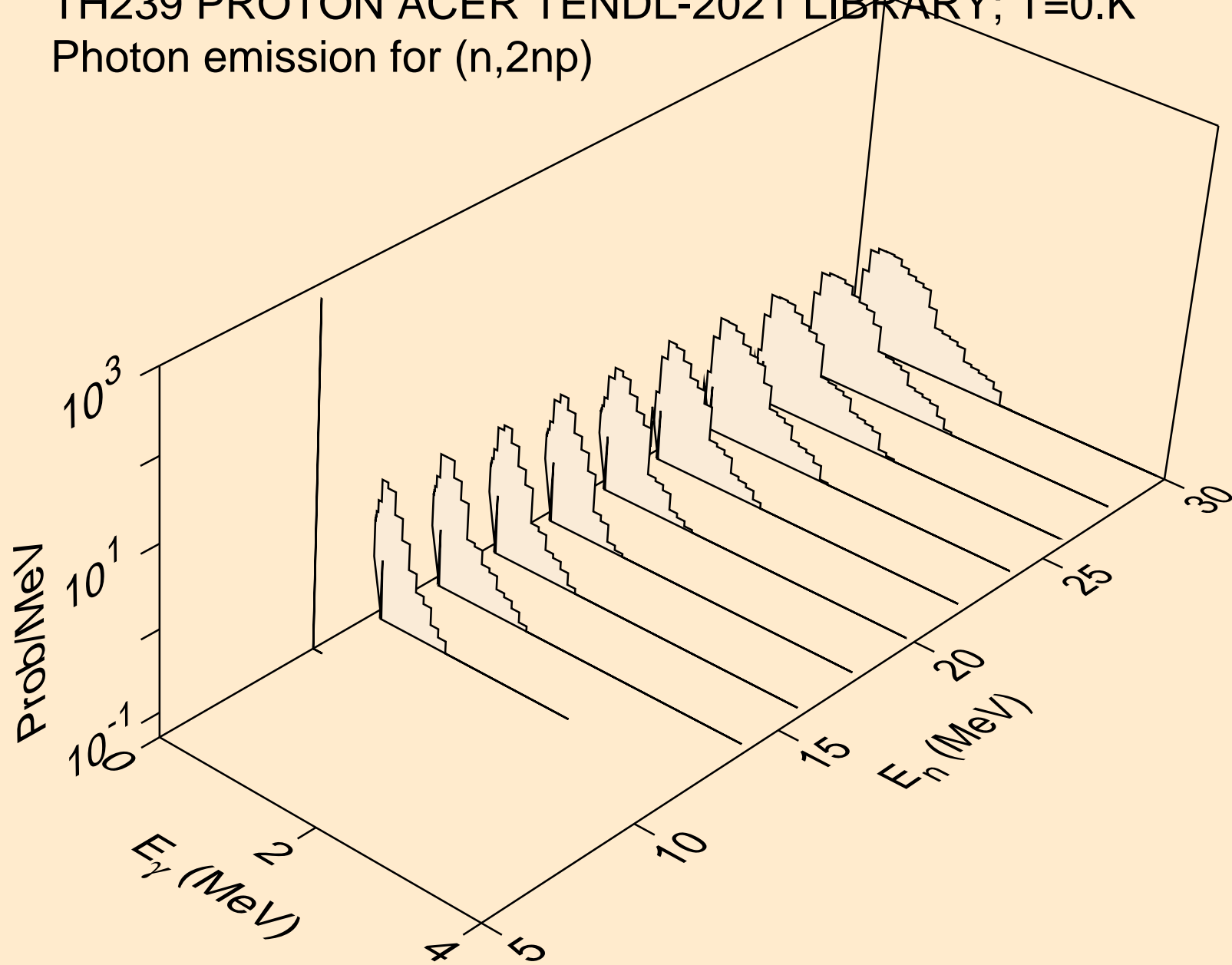
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



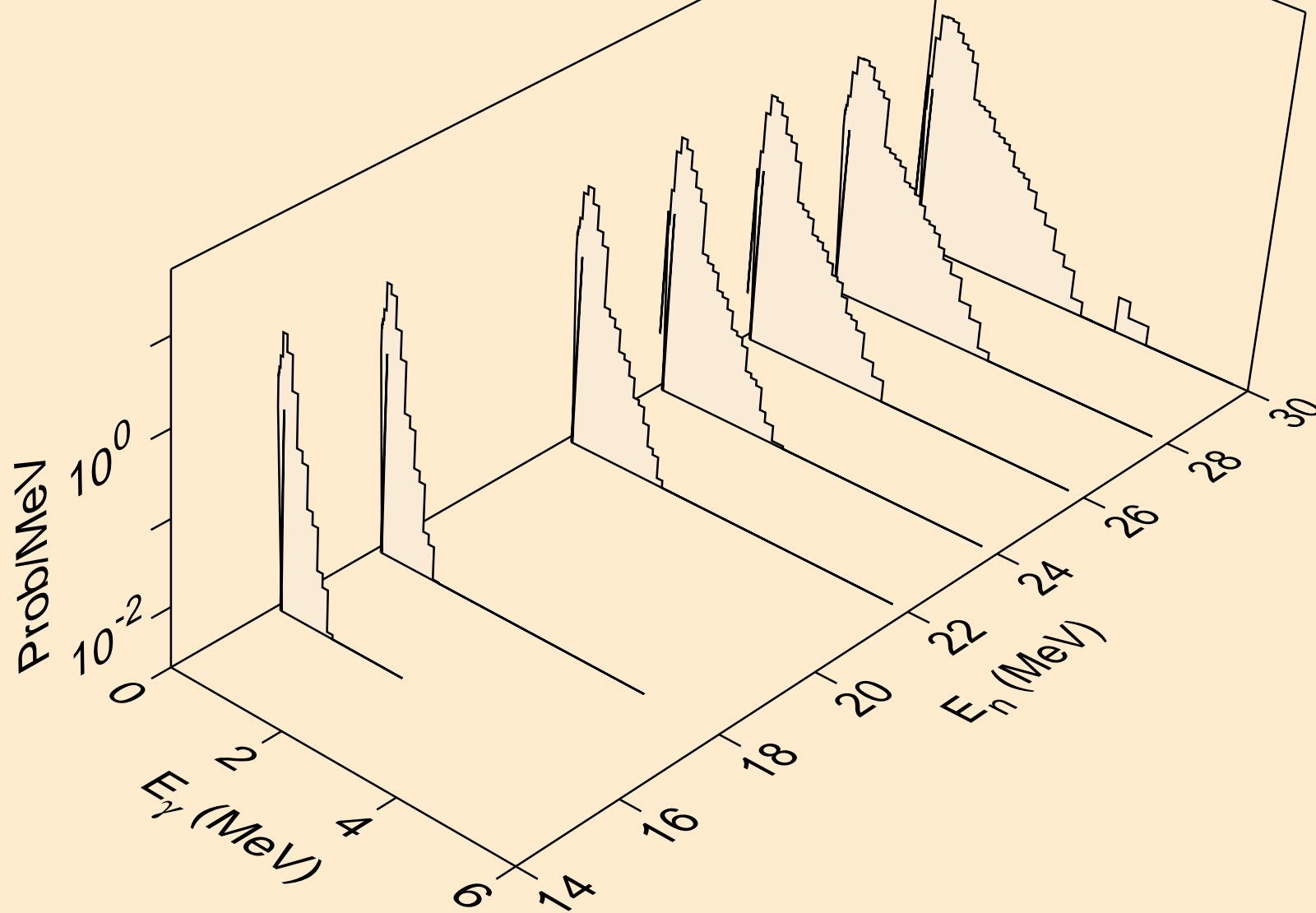
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,4n)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)

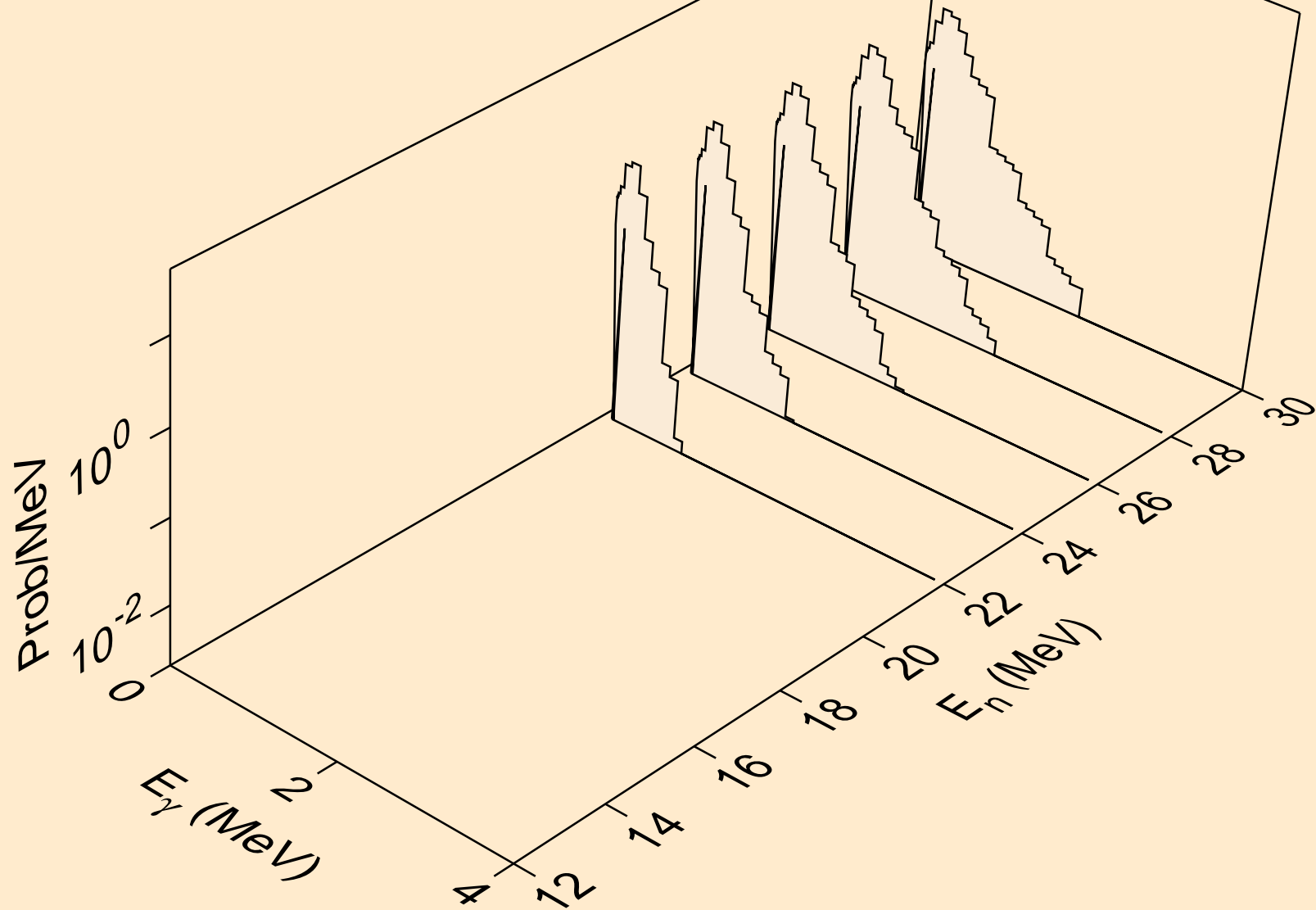


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,3np)

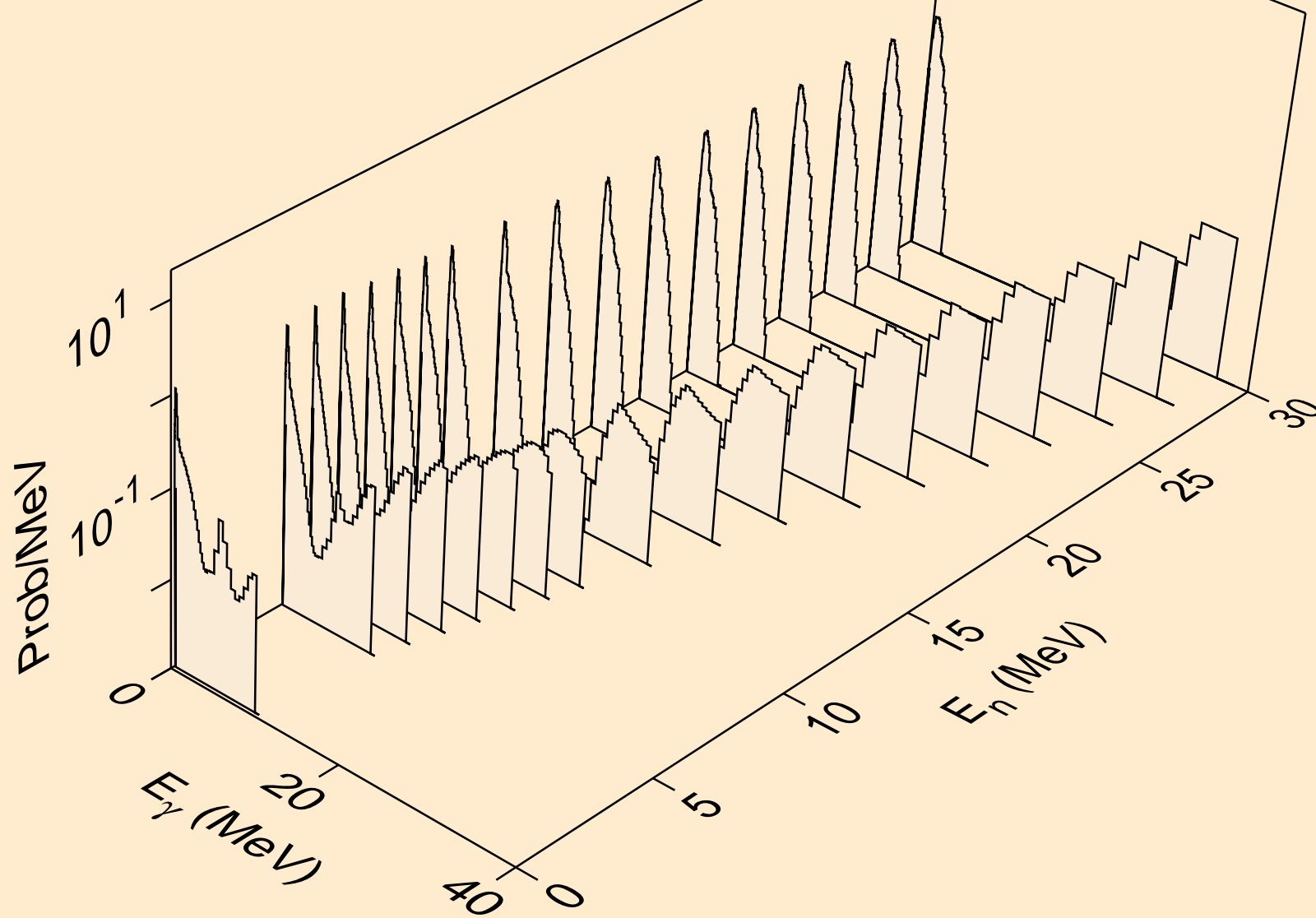




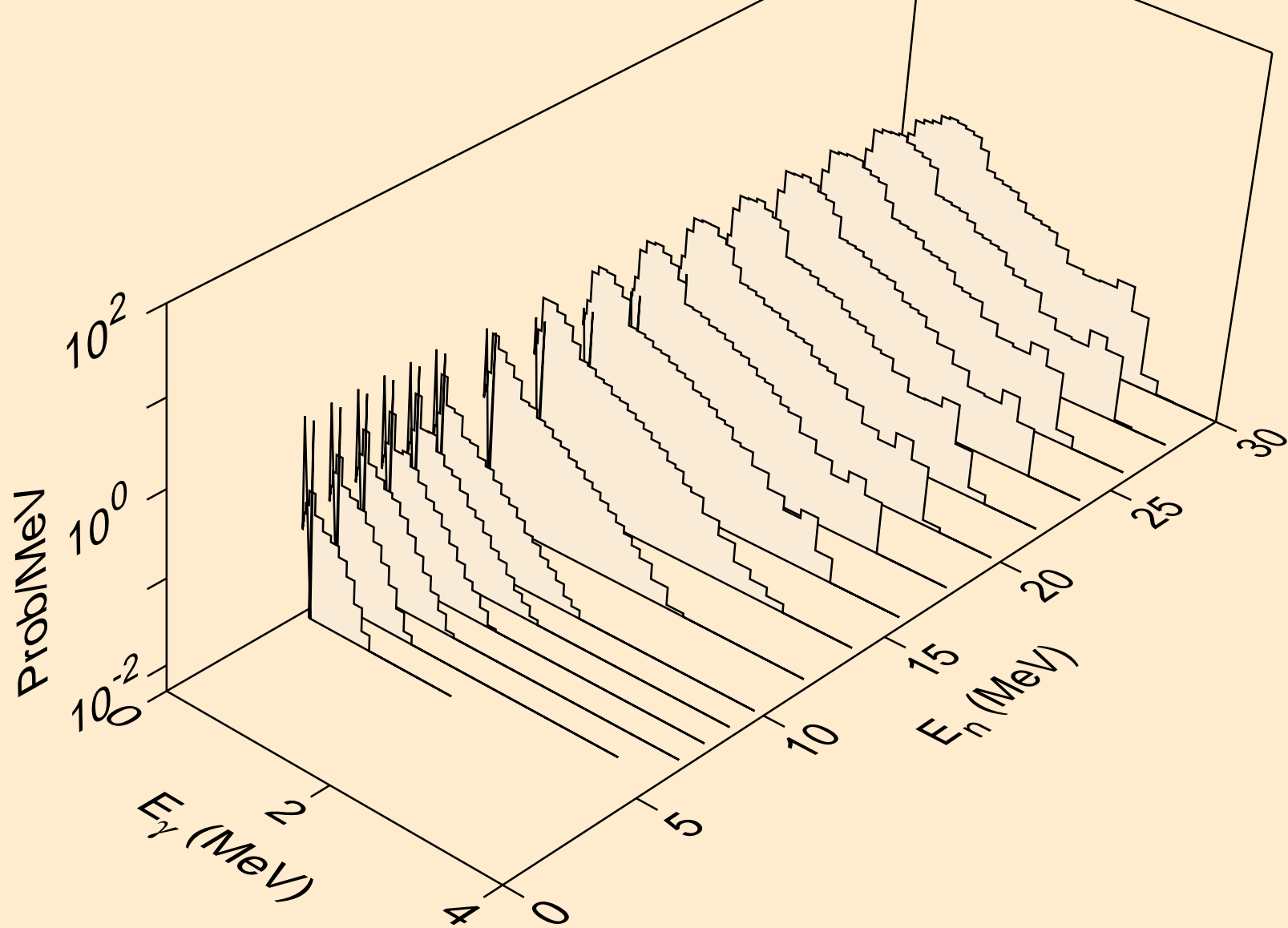
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



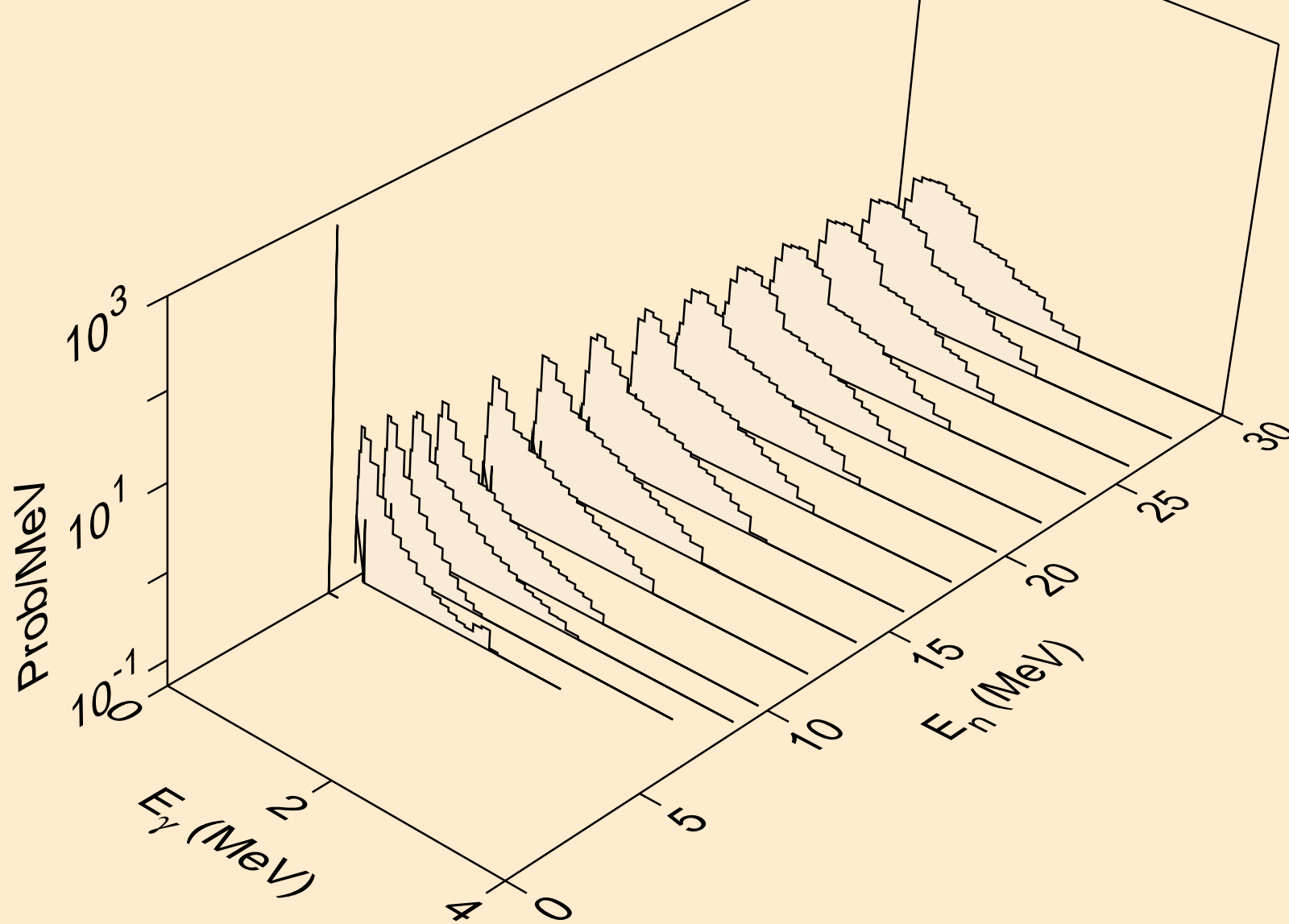
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Photon emission for (n,gma)



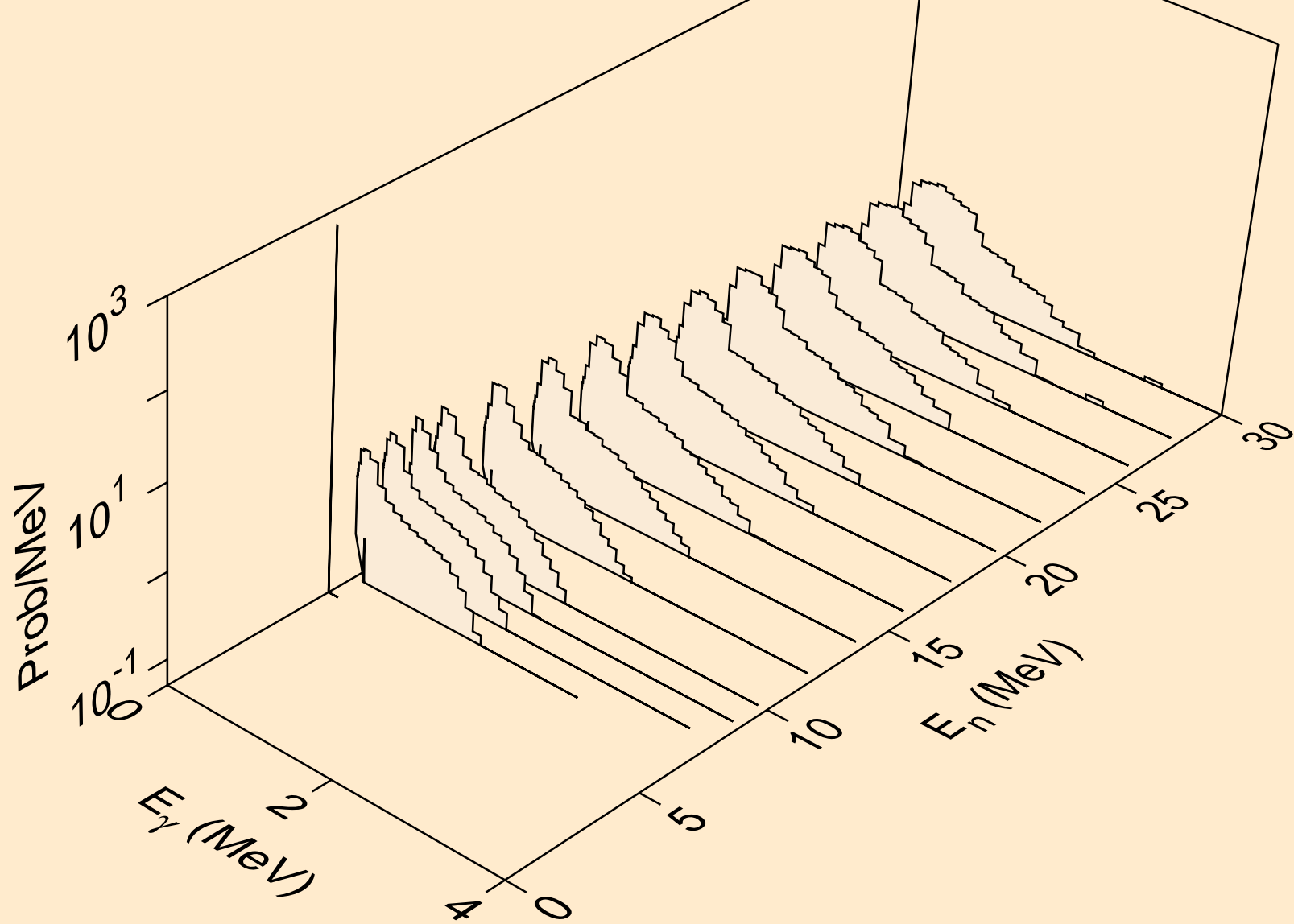
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic



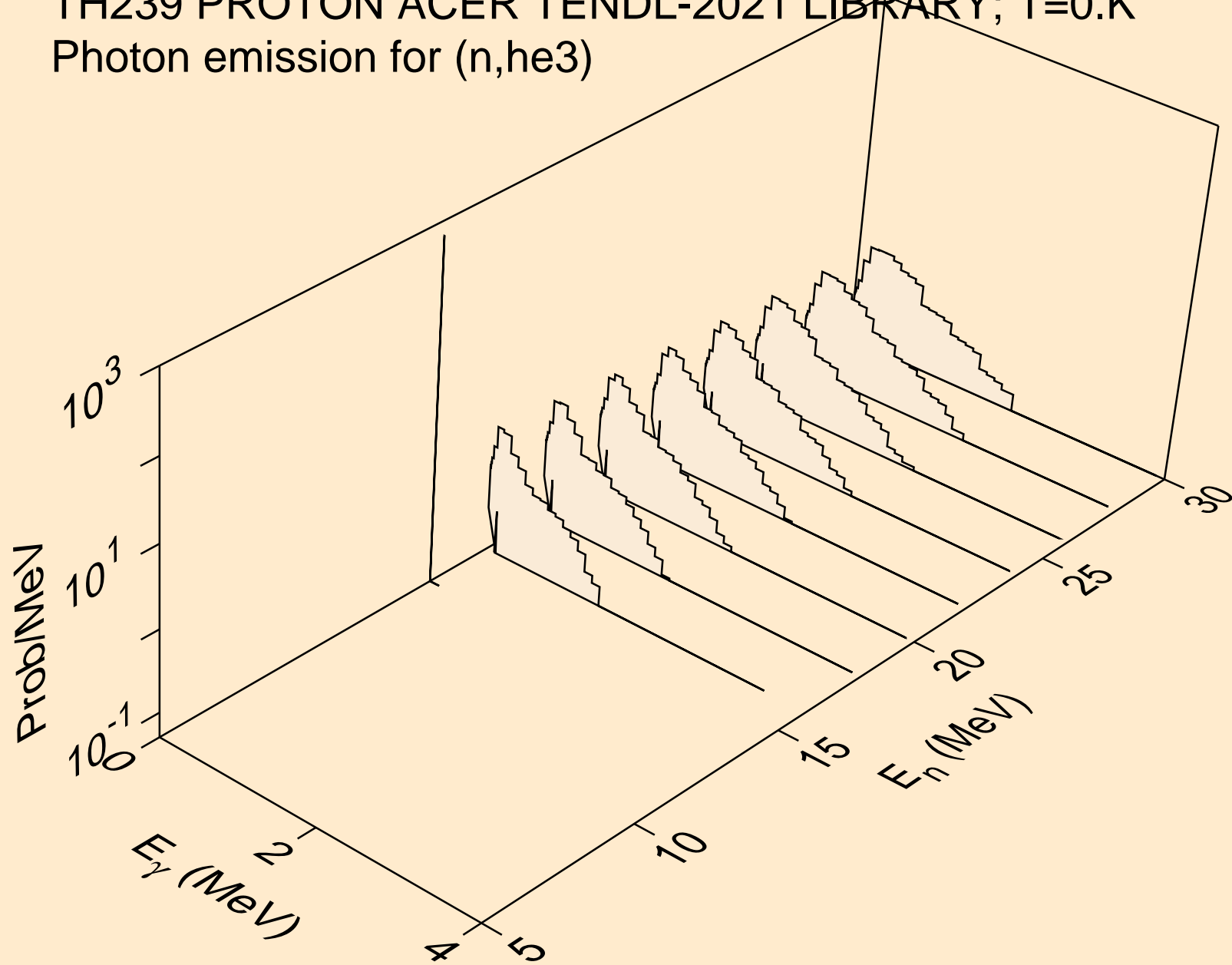
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,d)



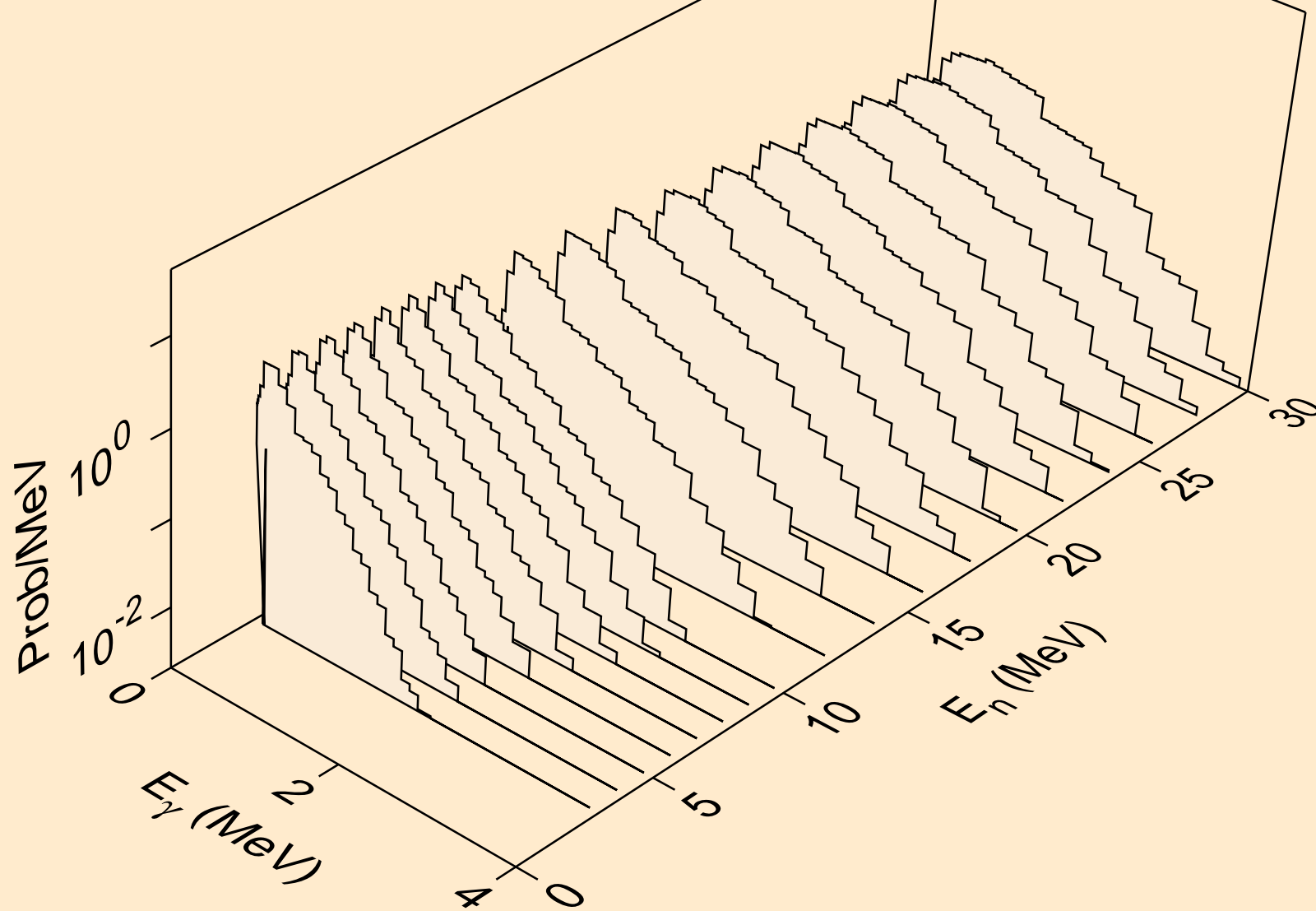
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



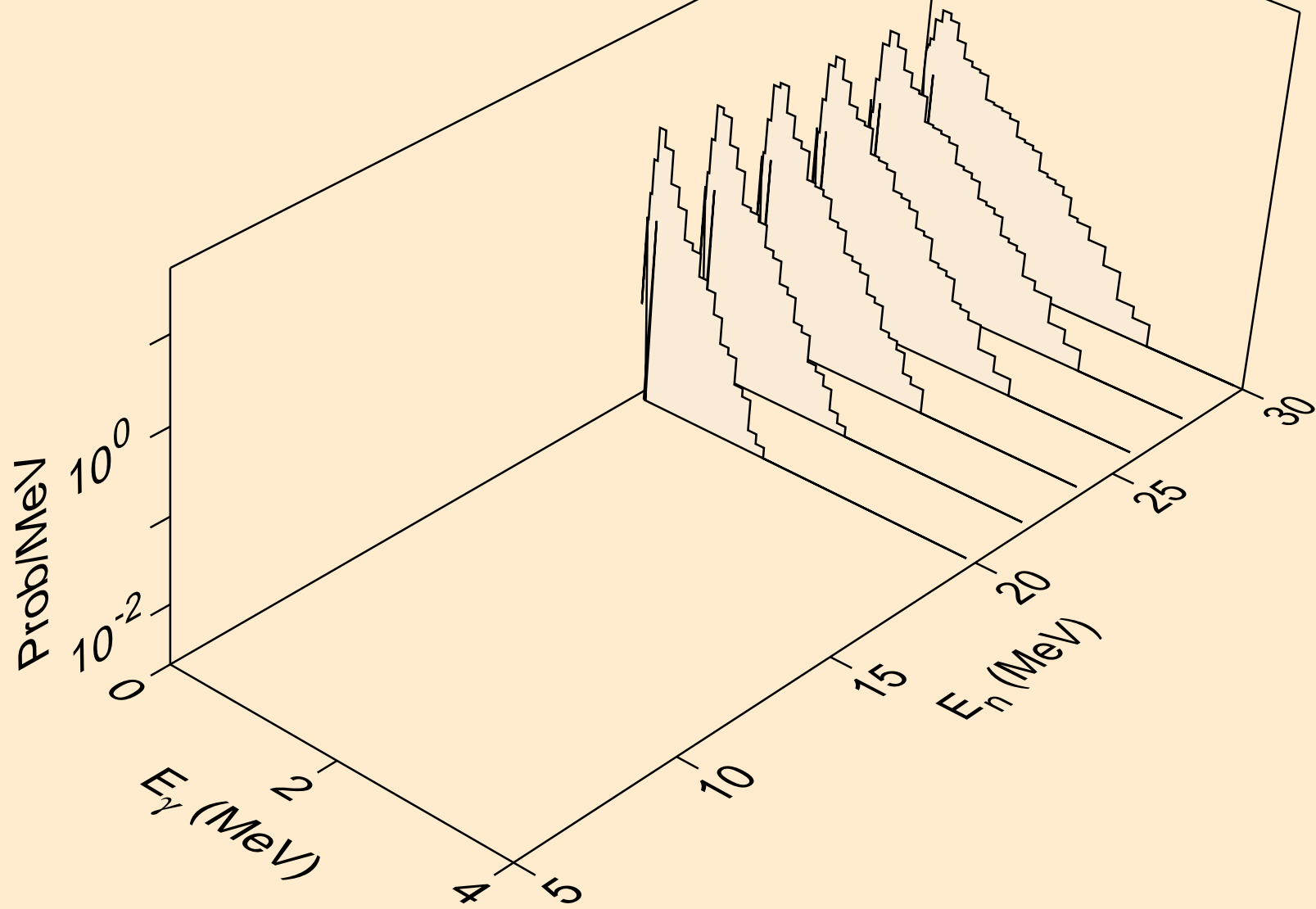
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,he3)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,a)



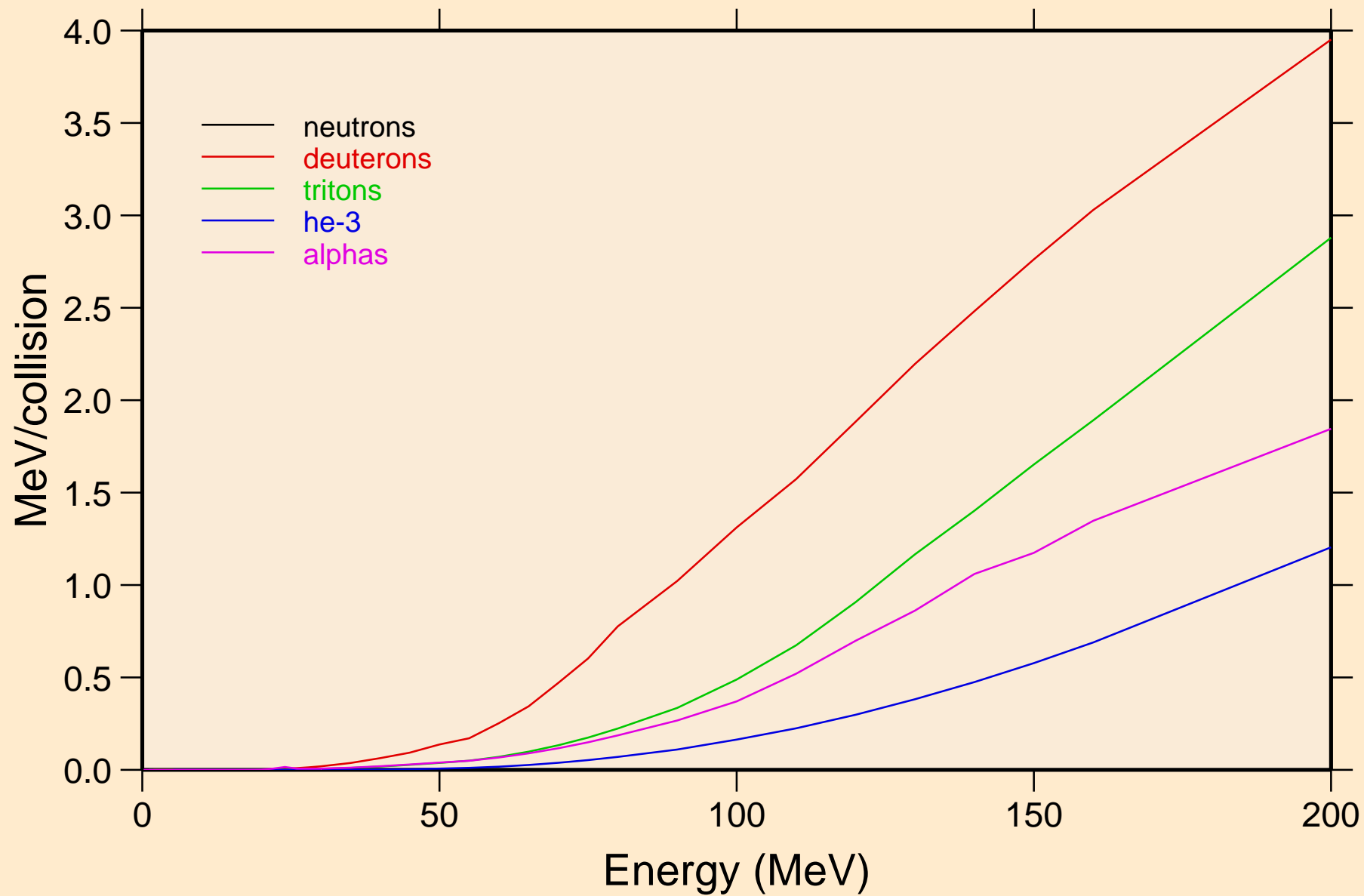
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)



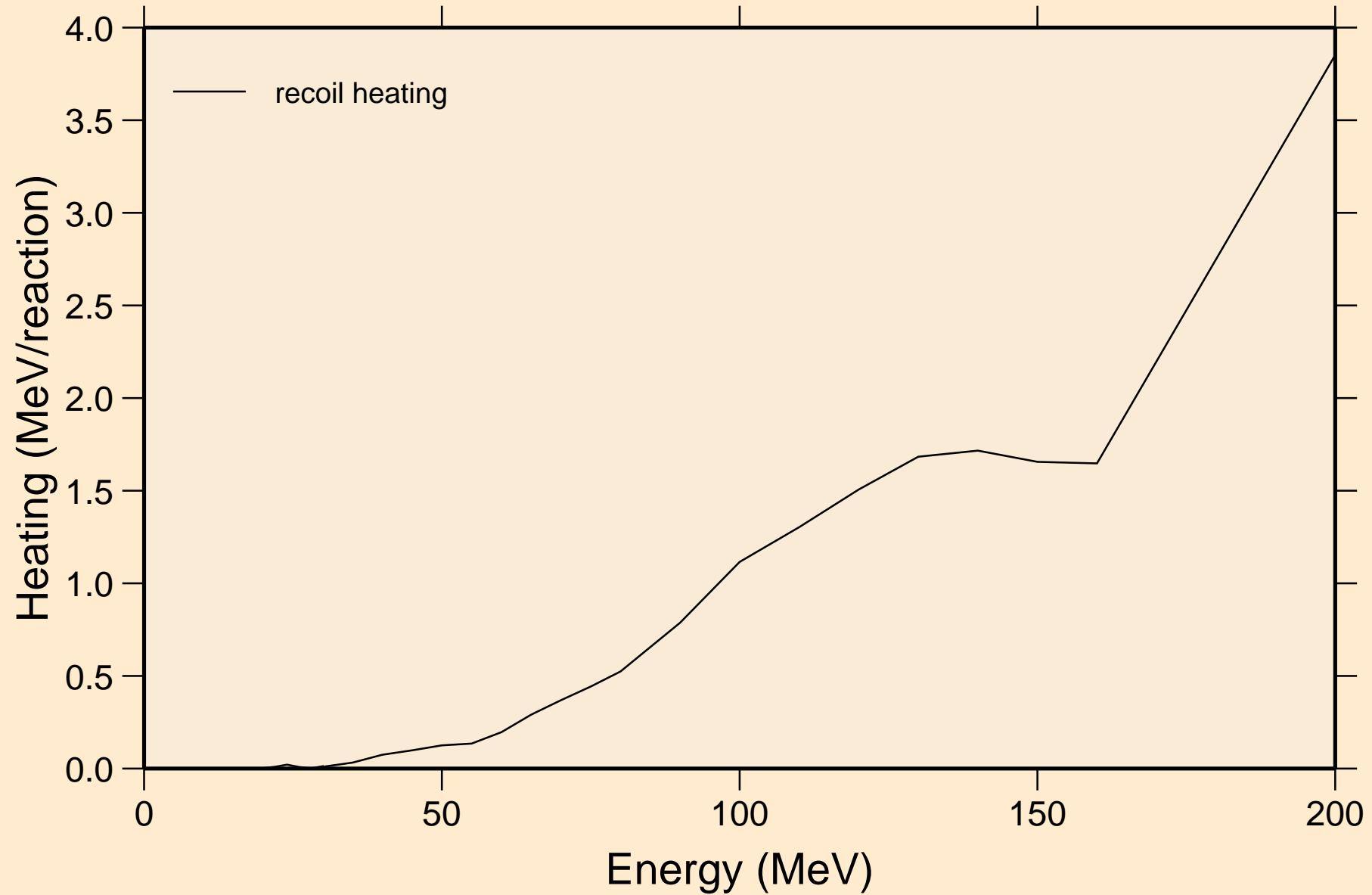


# TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K

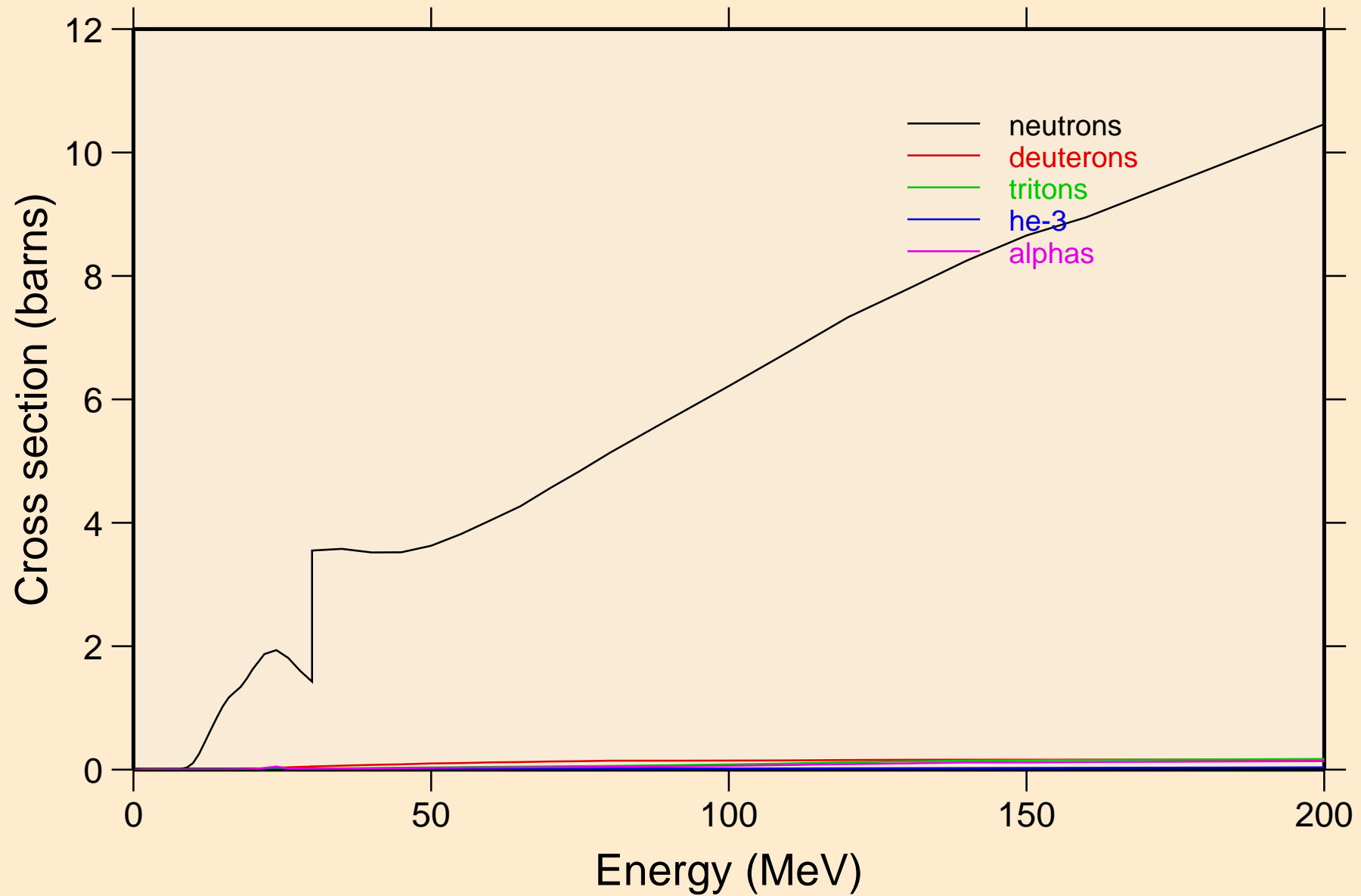
## Particle heating contributions



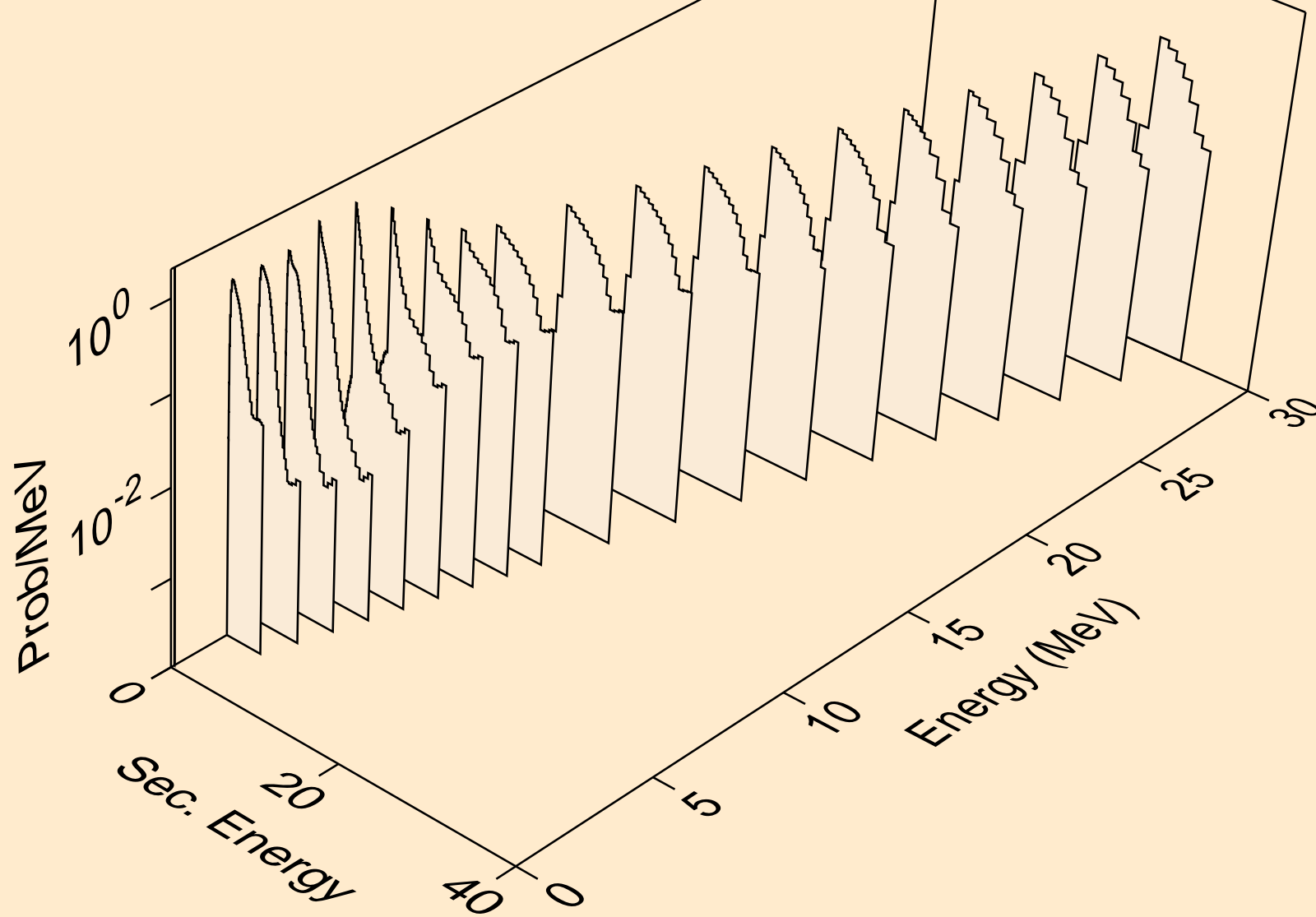
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Recoil Heating



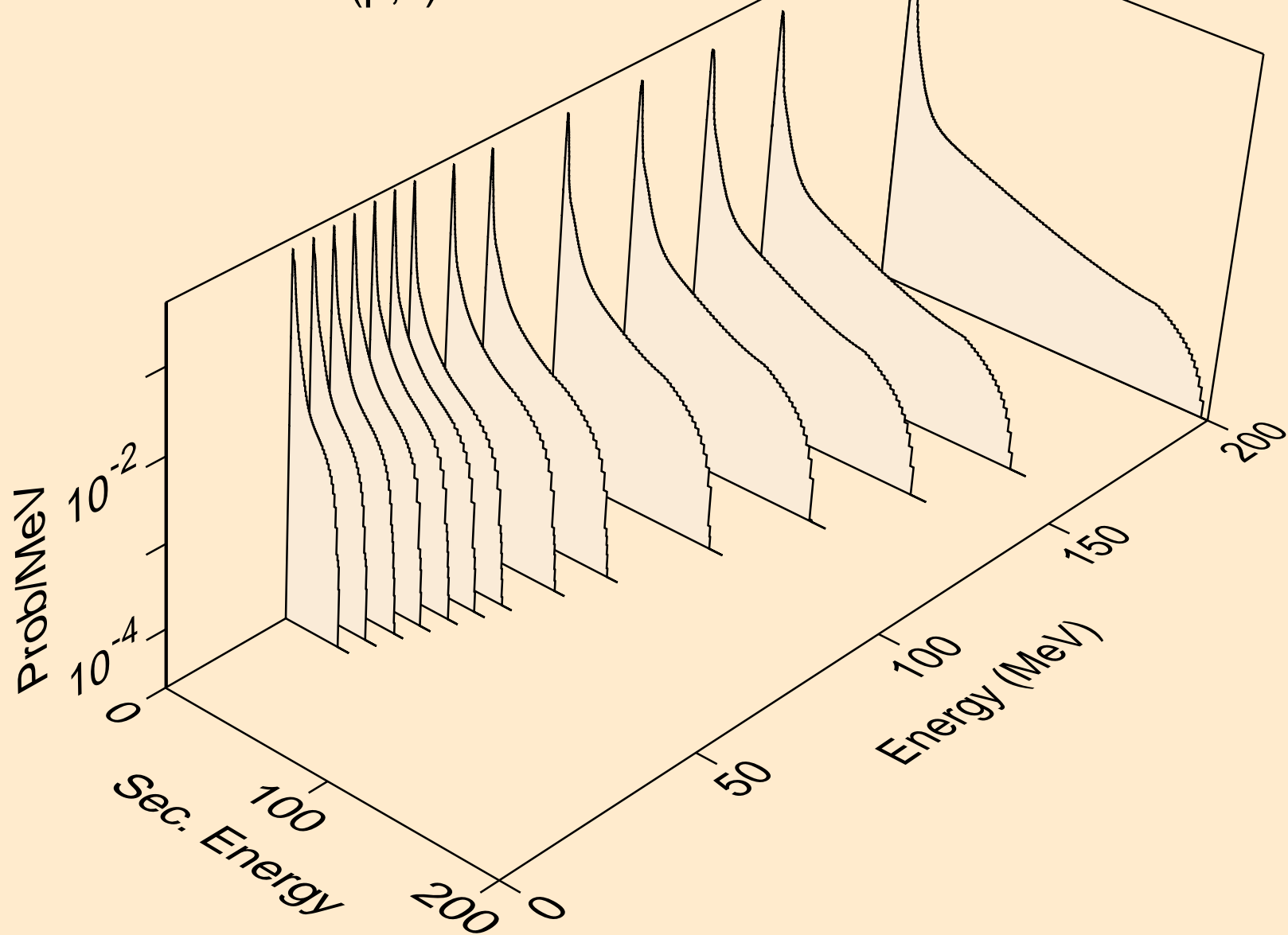
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections



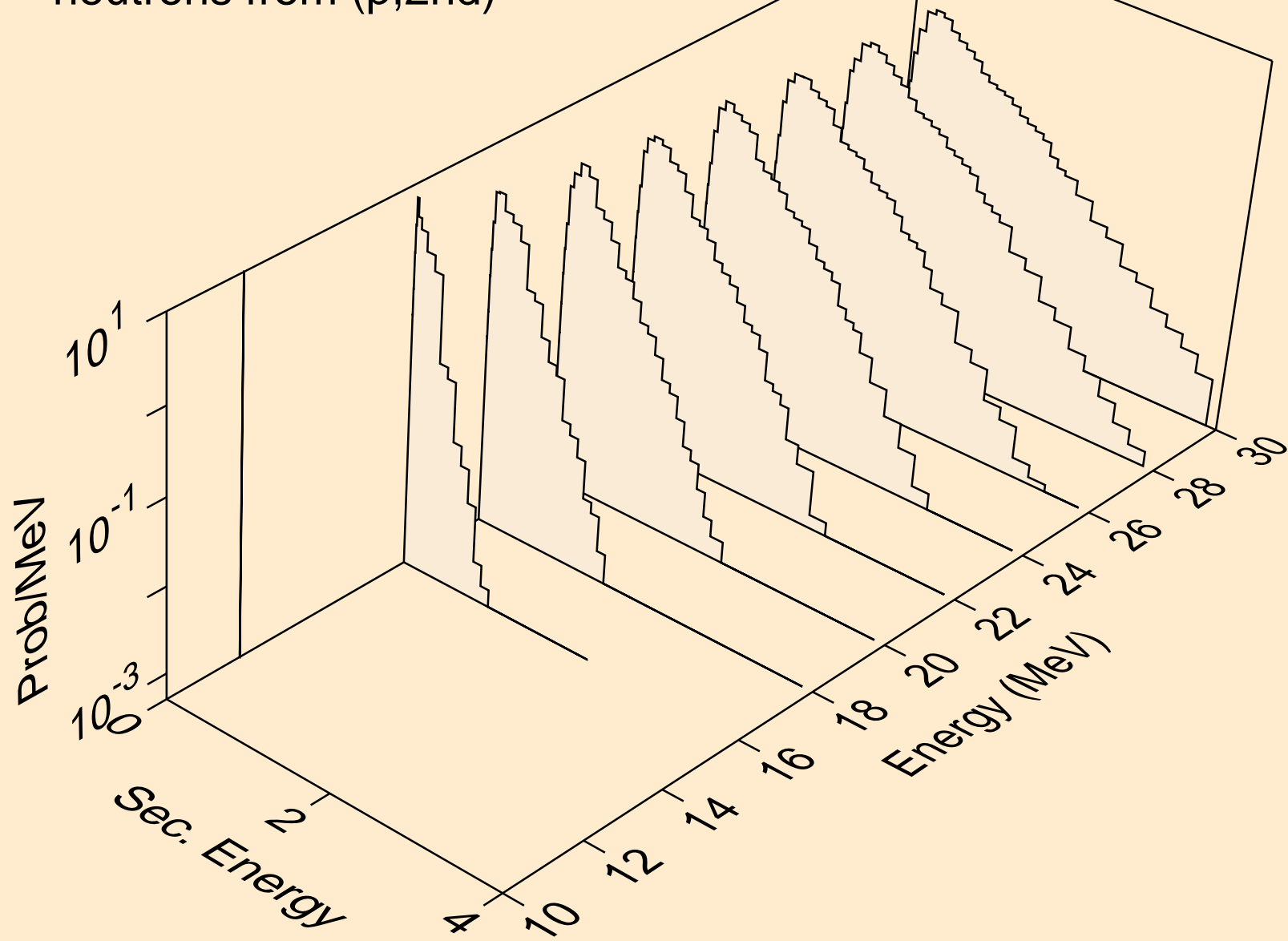
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n)



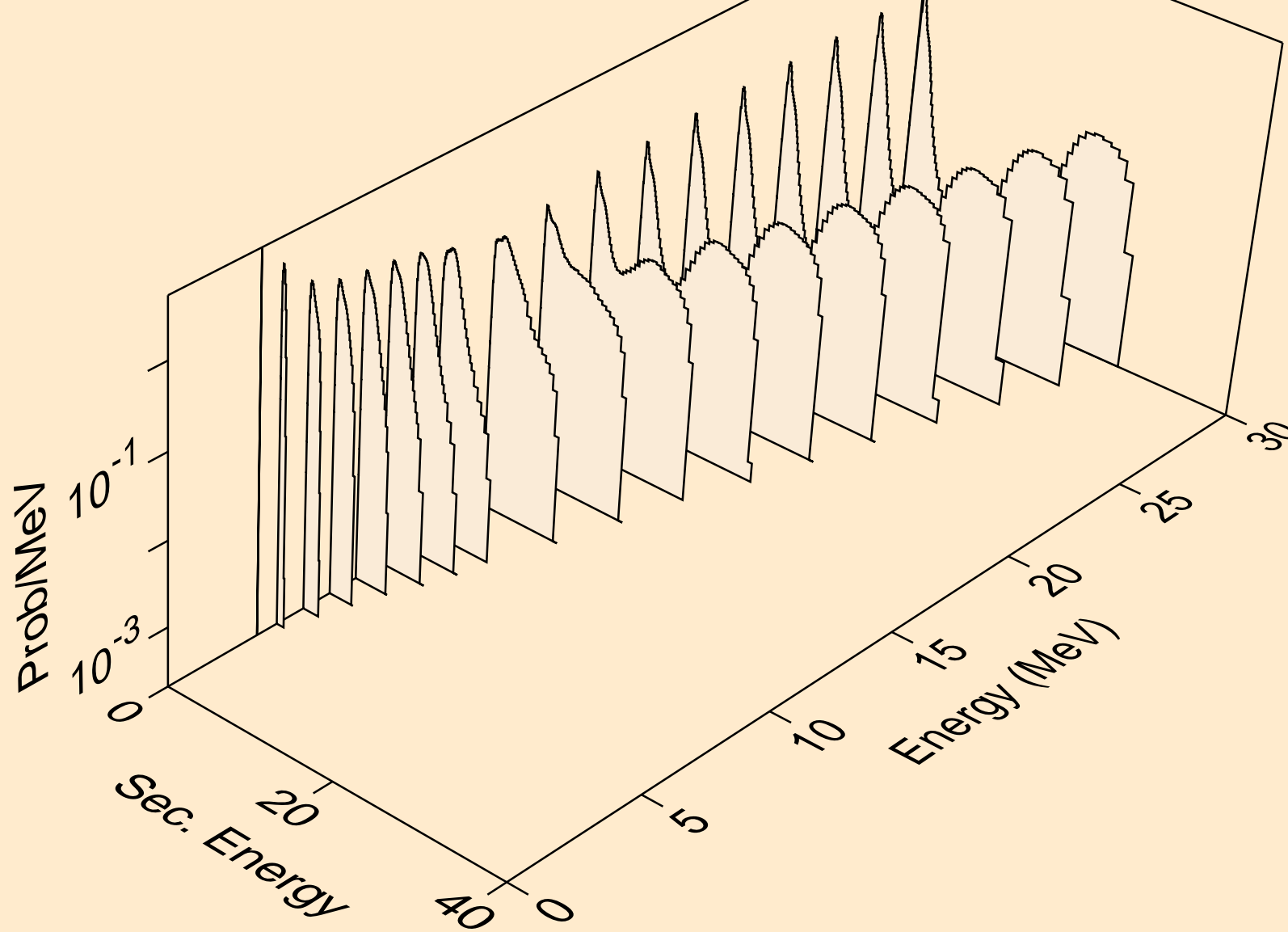
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,x)



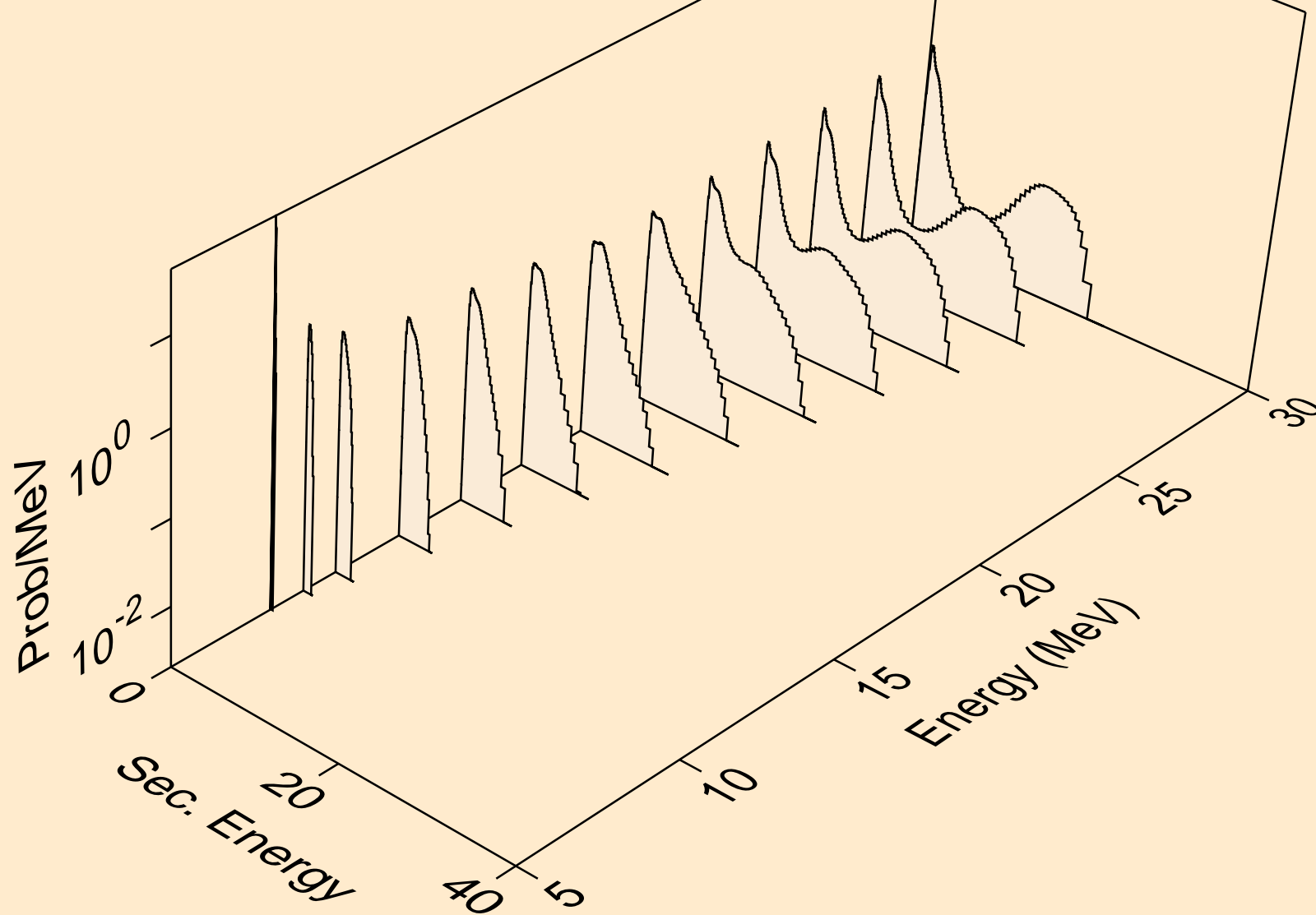
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2nd)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2n)

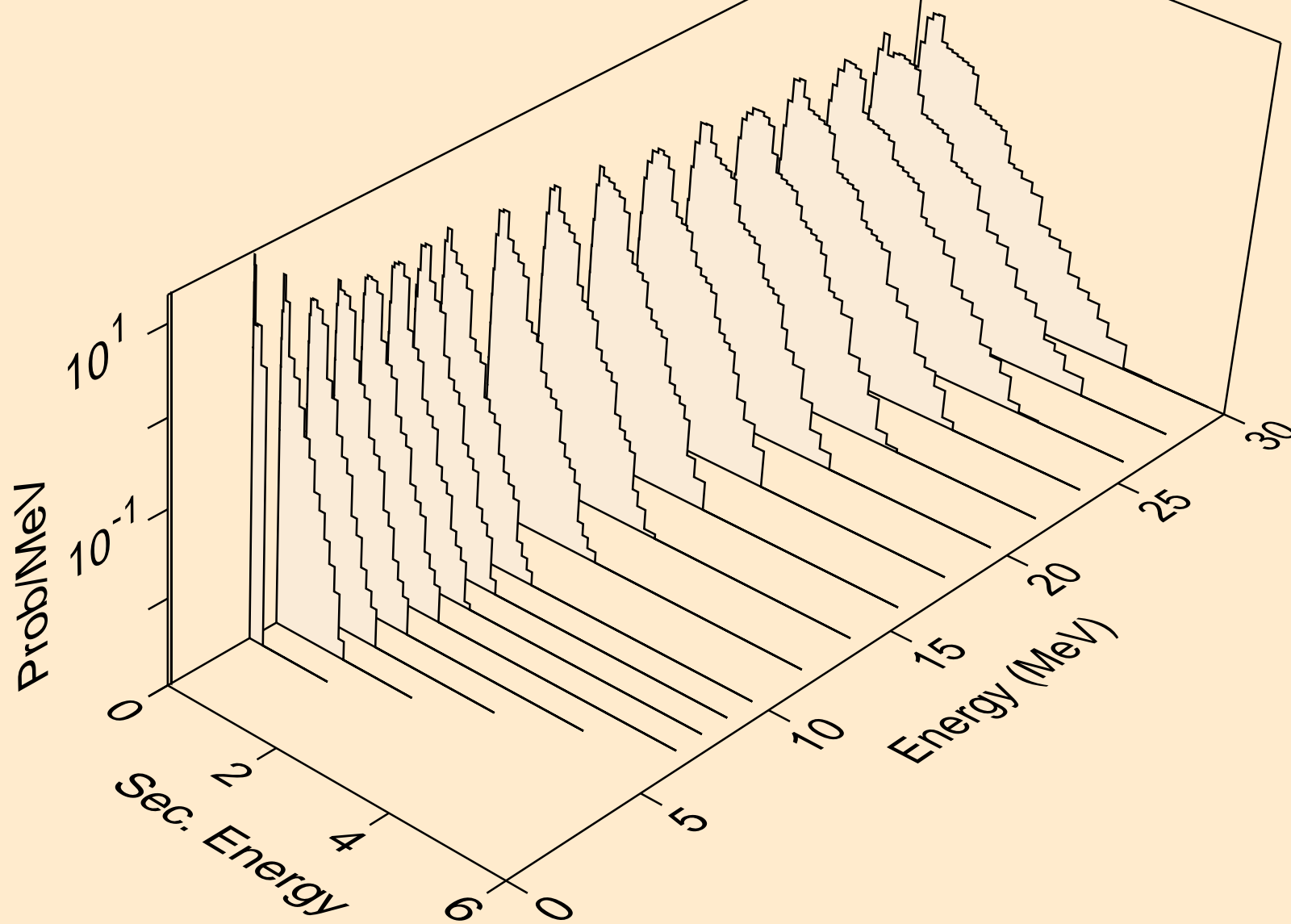


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3n)

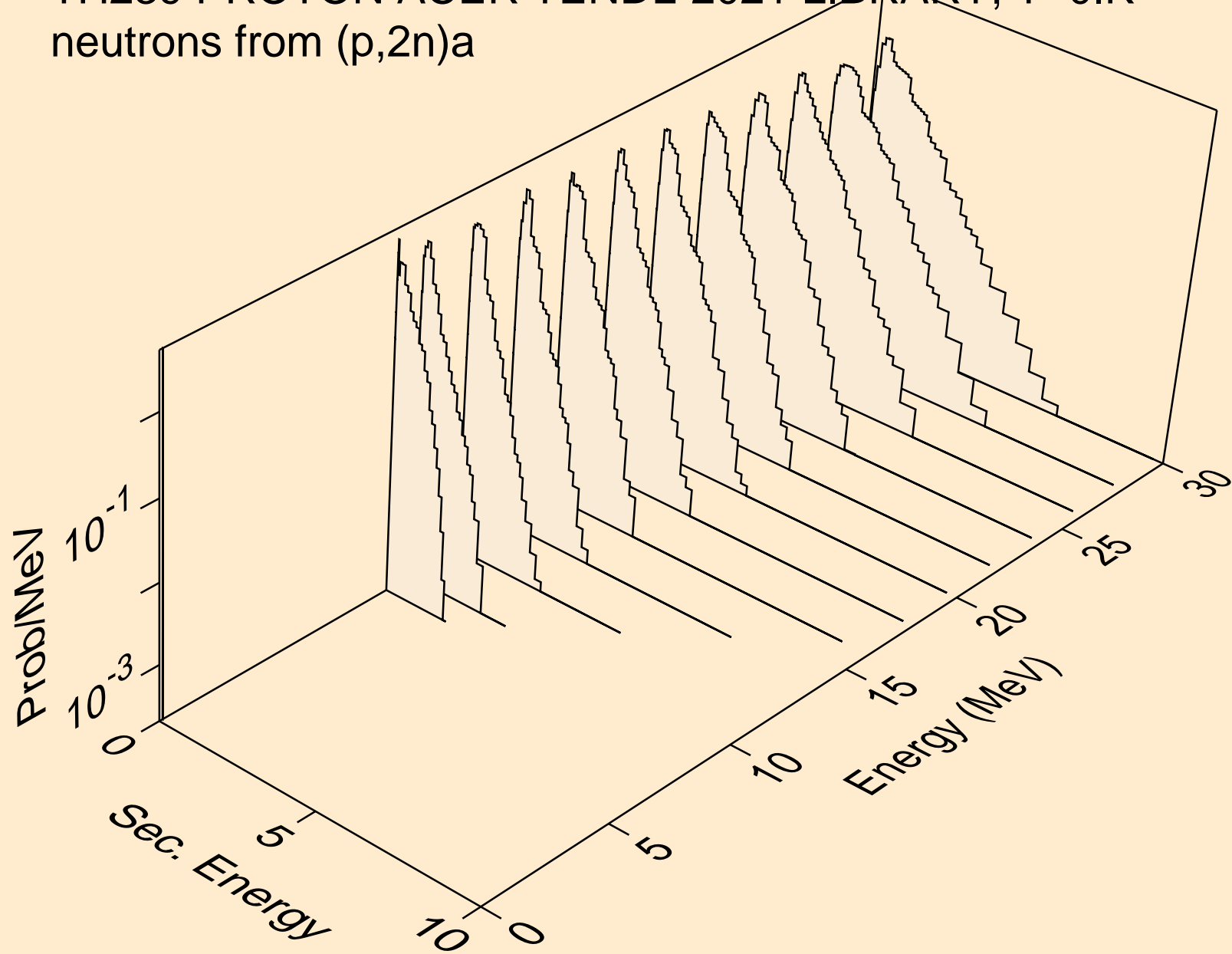




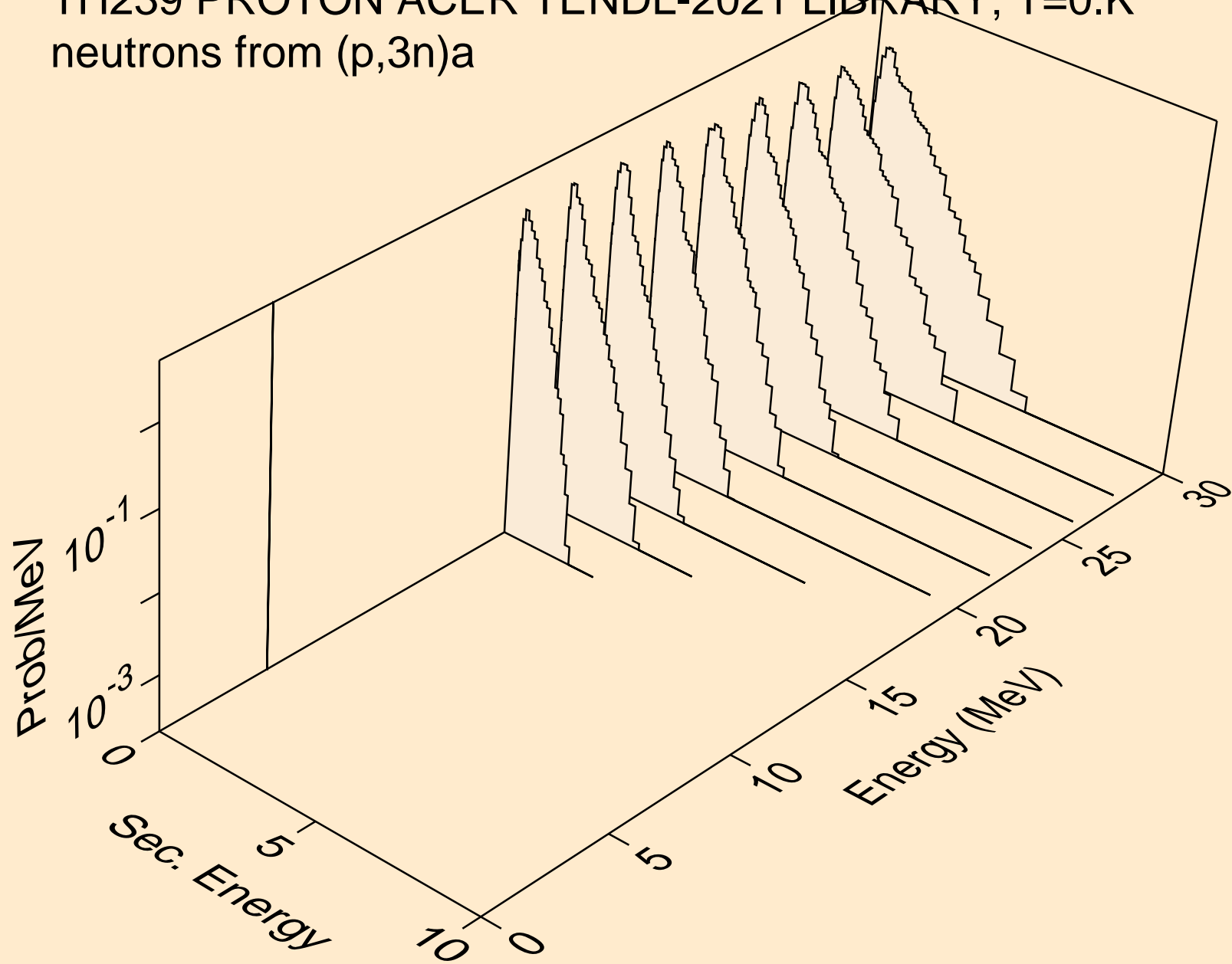
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)a



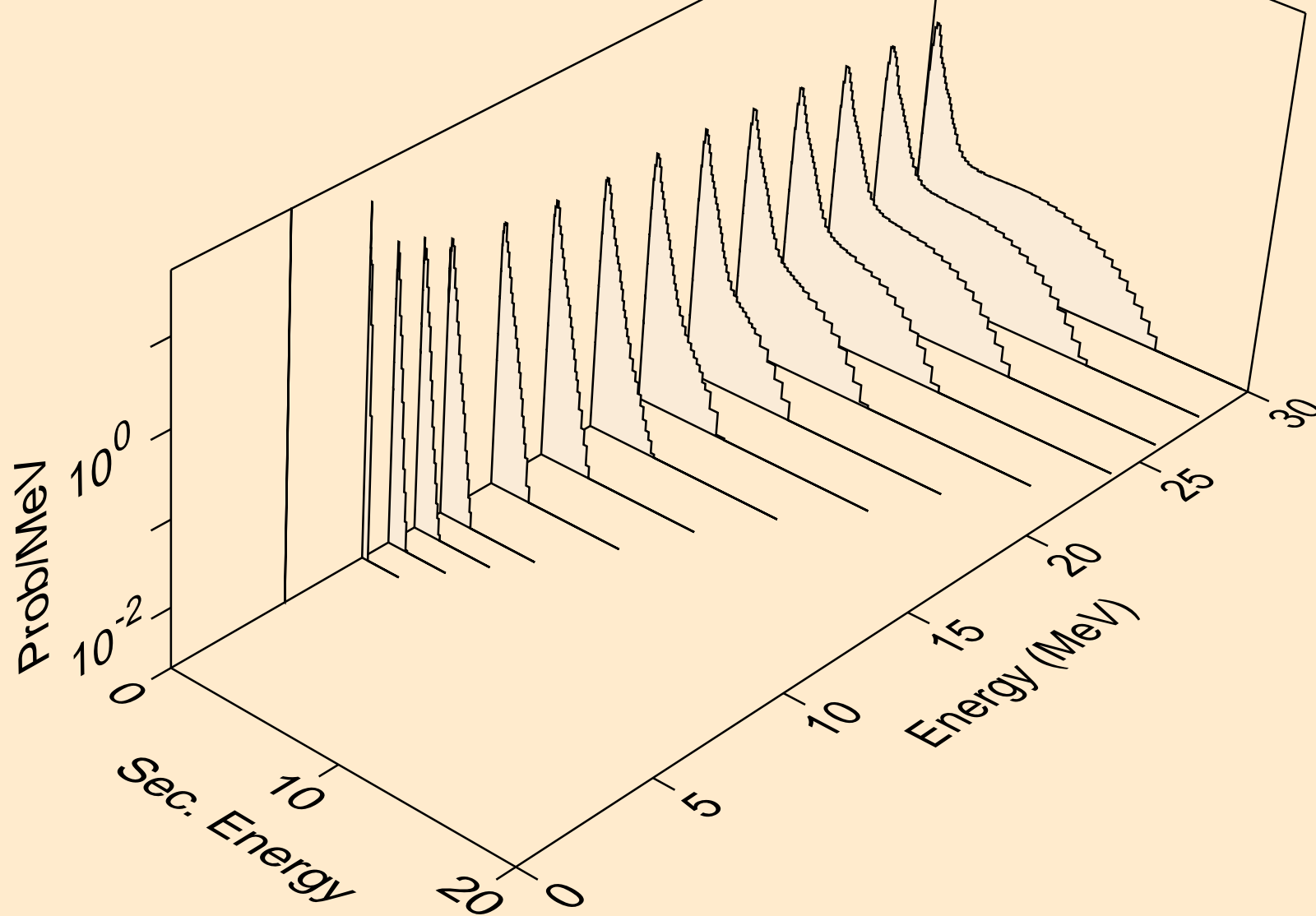
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2n)a



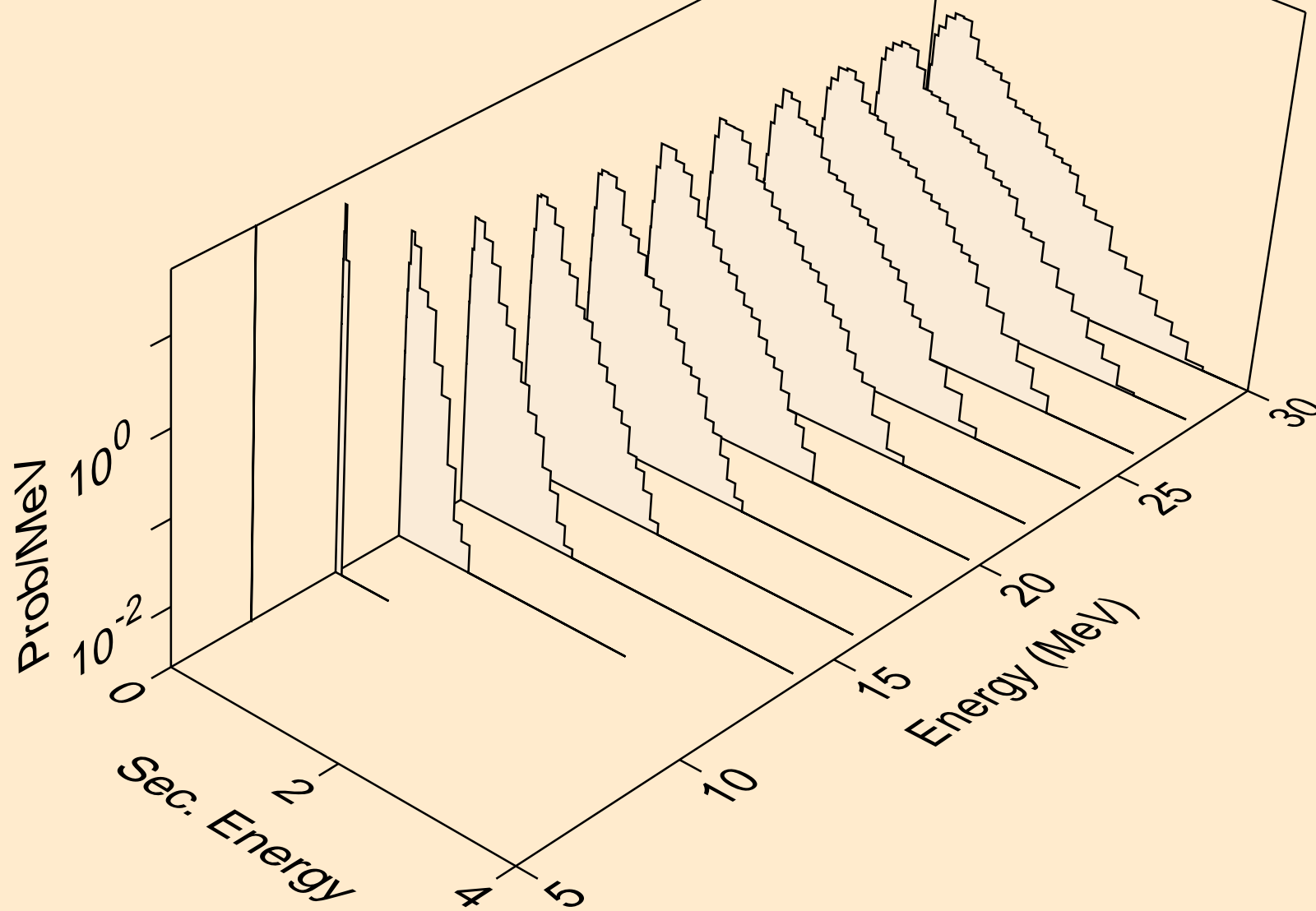
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3n)a



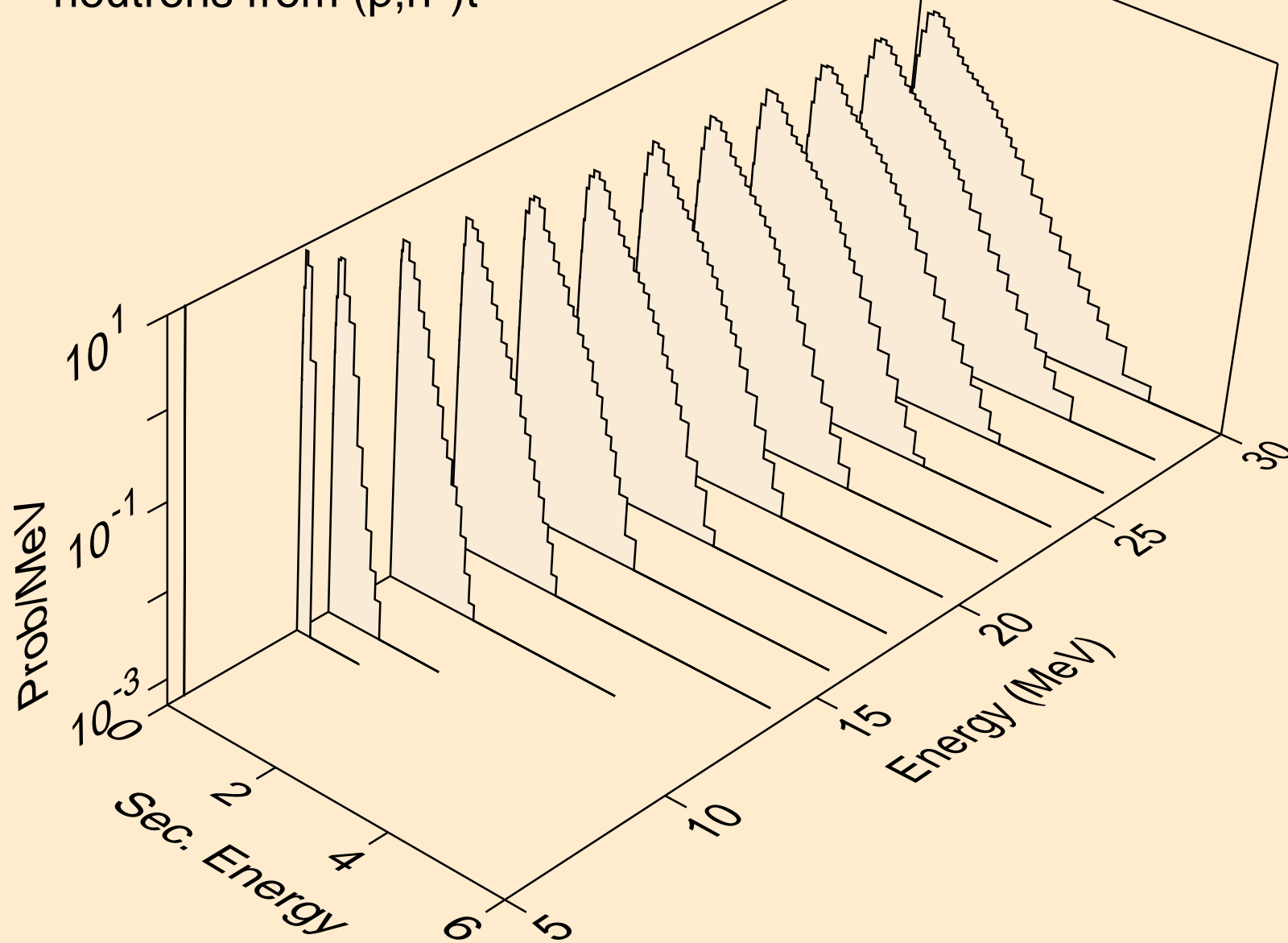
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)p



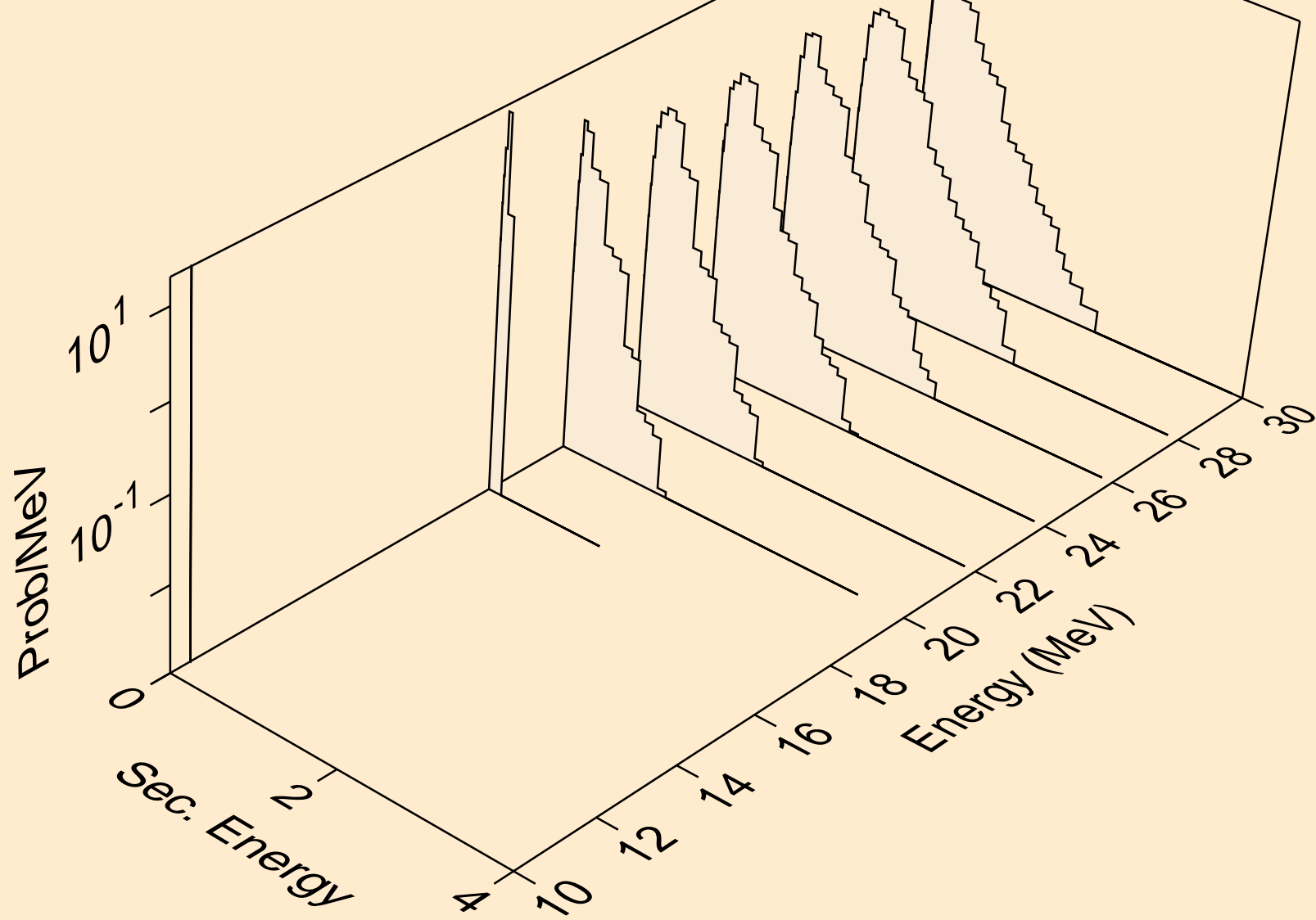
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)d



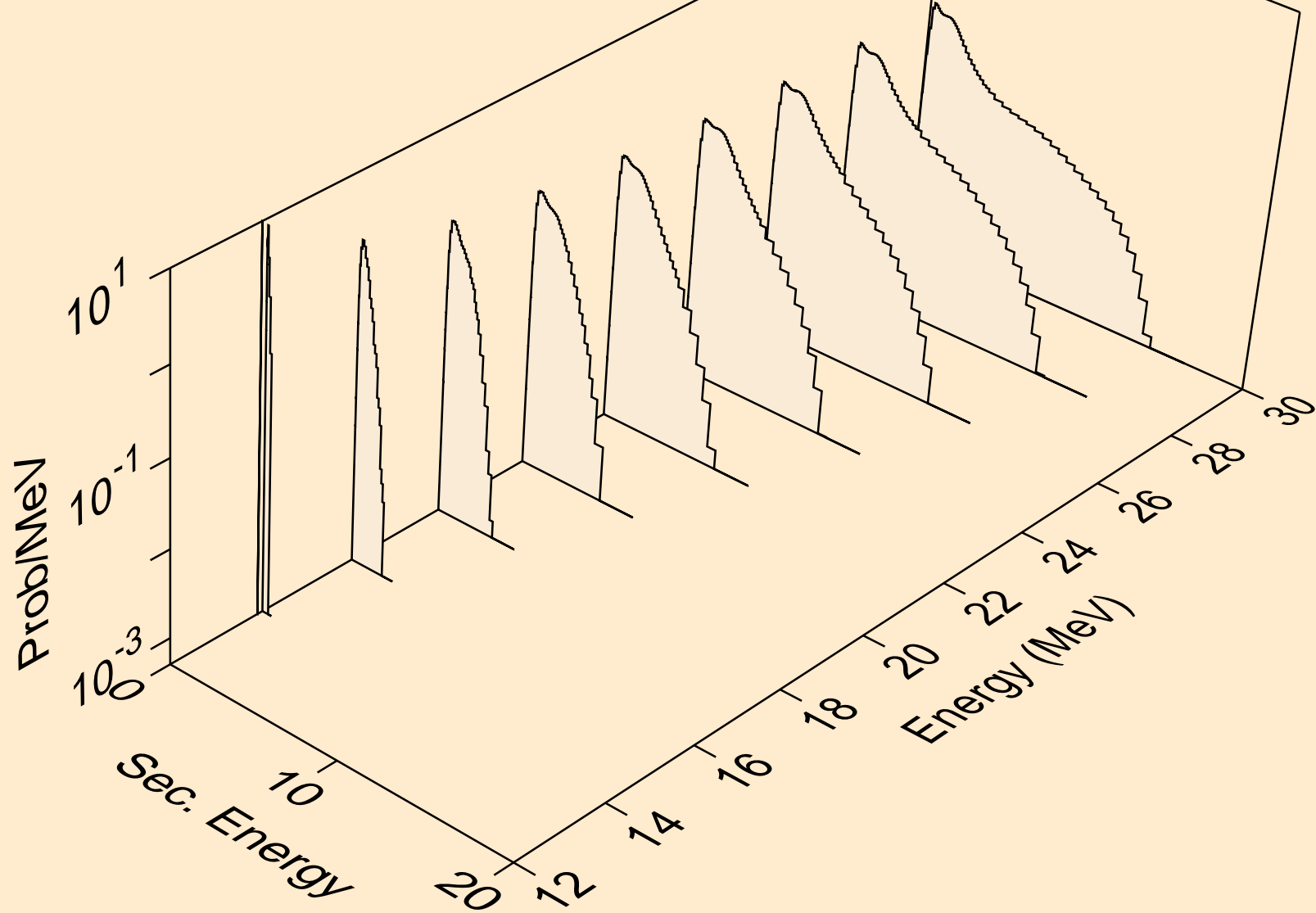
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)t



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,n\*)he3

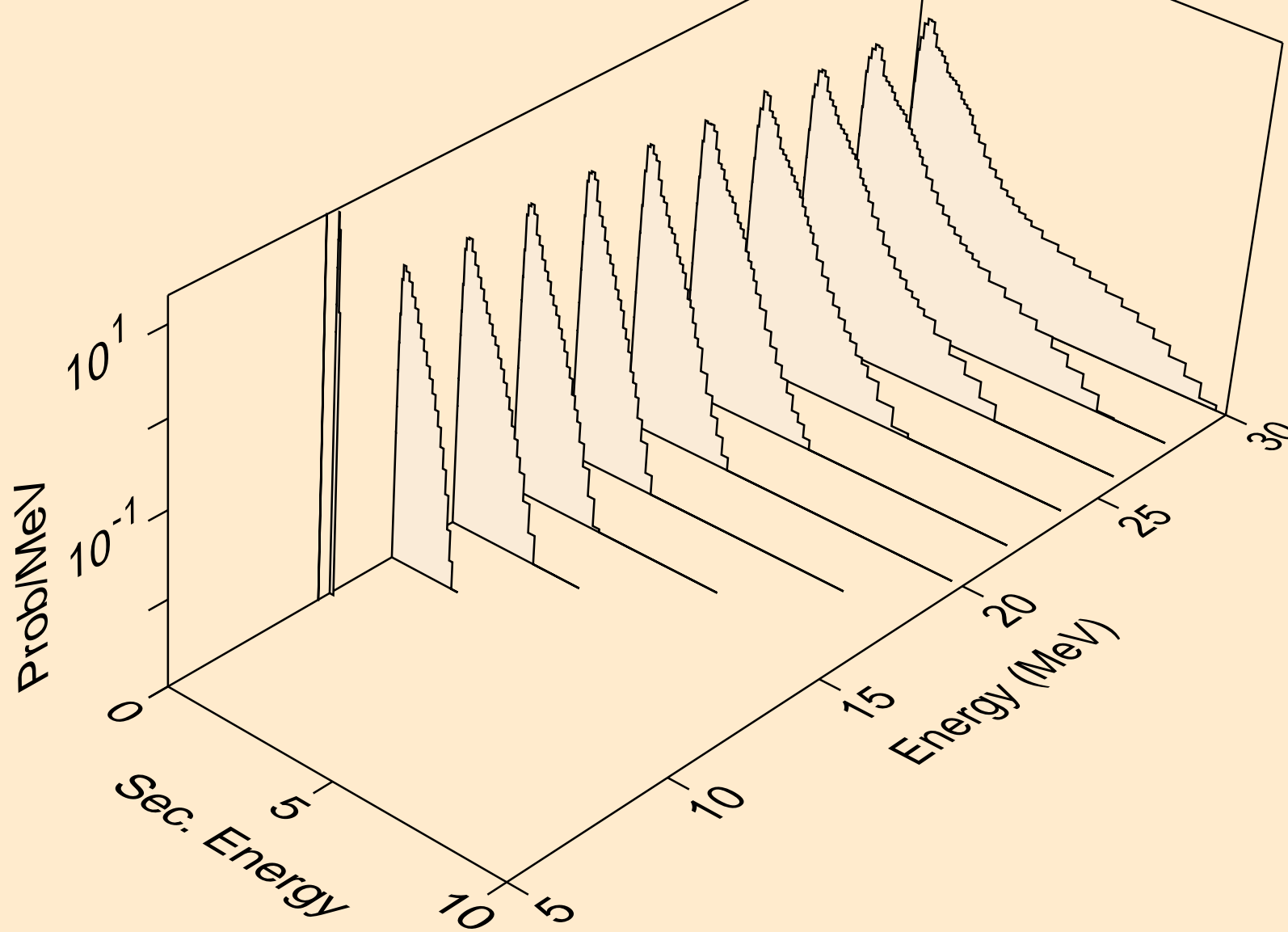


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,4n)

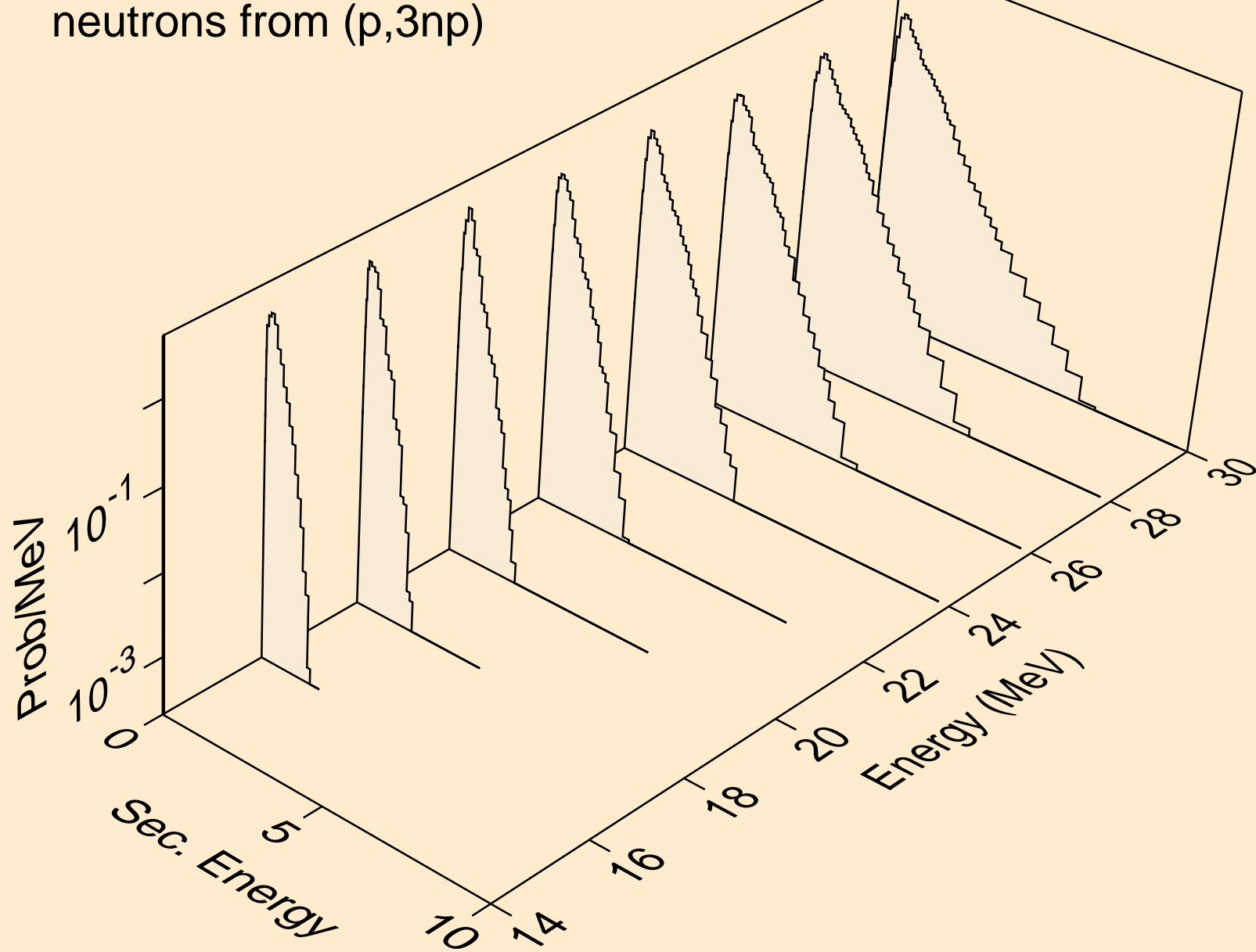




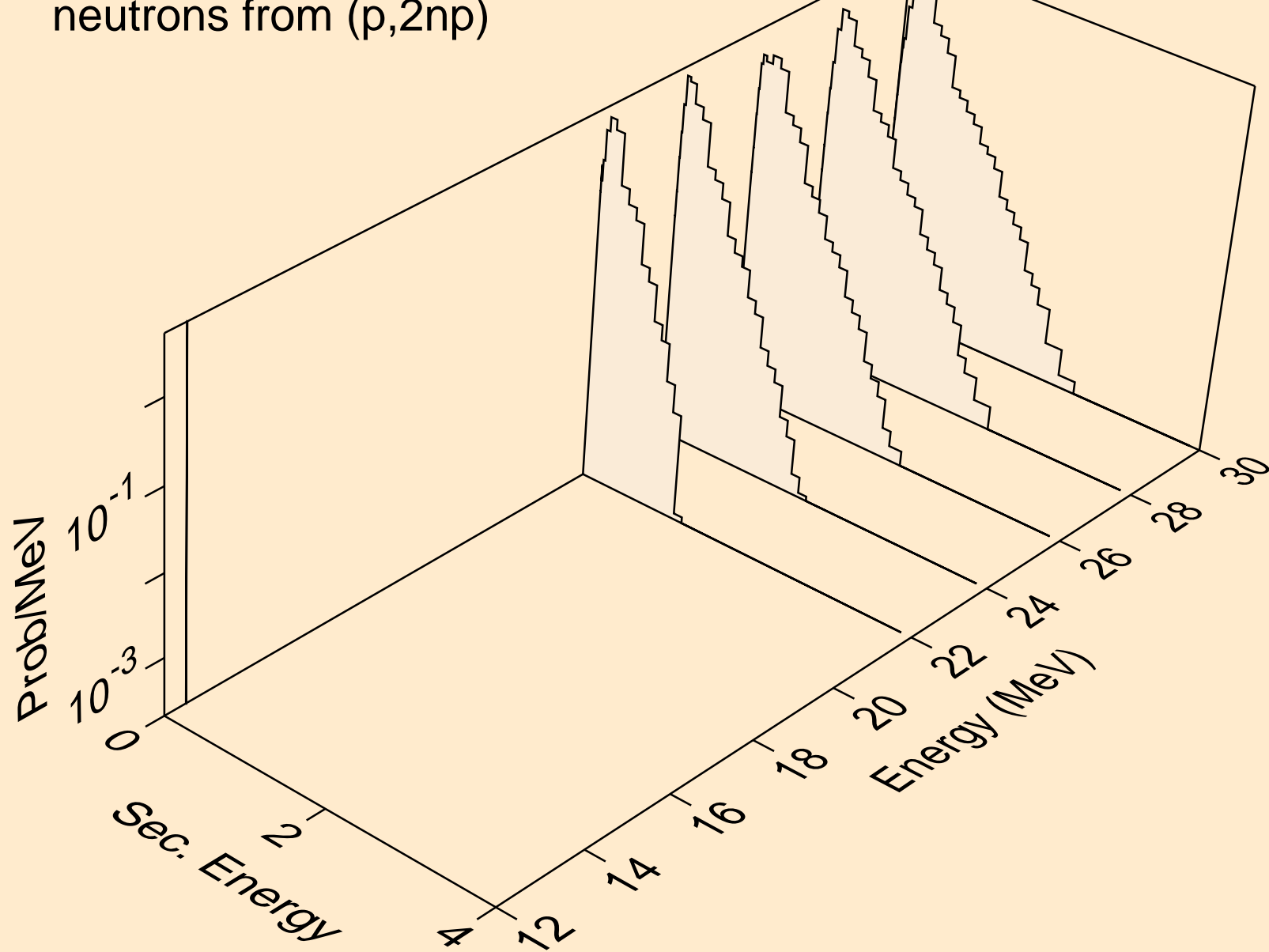
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,2np)



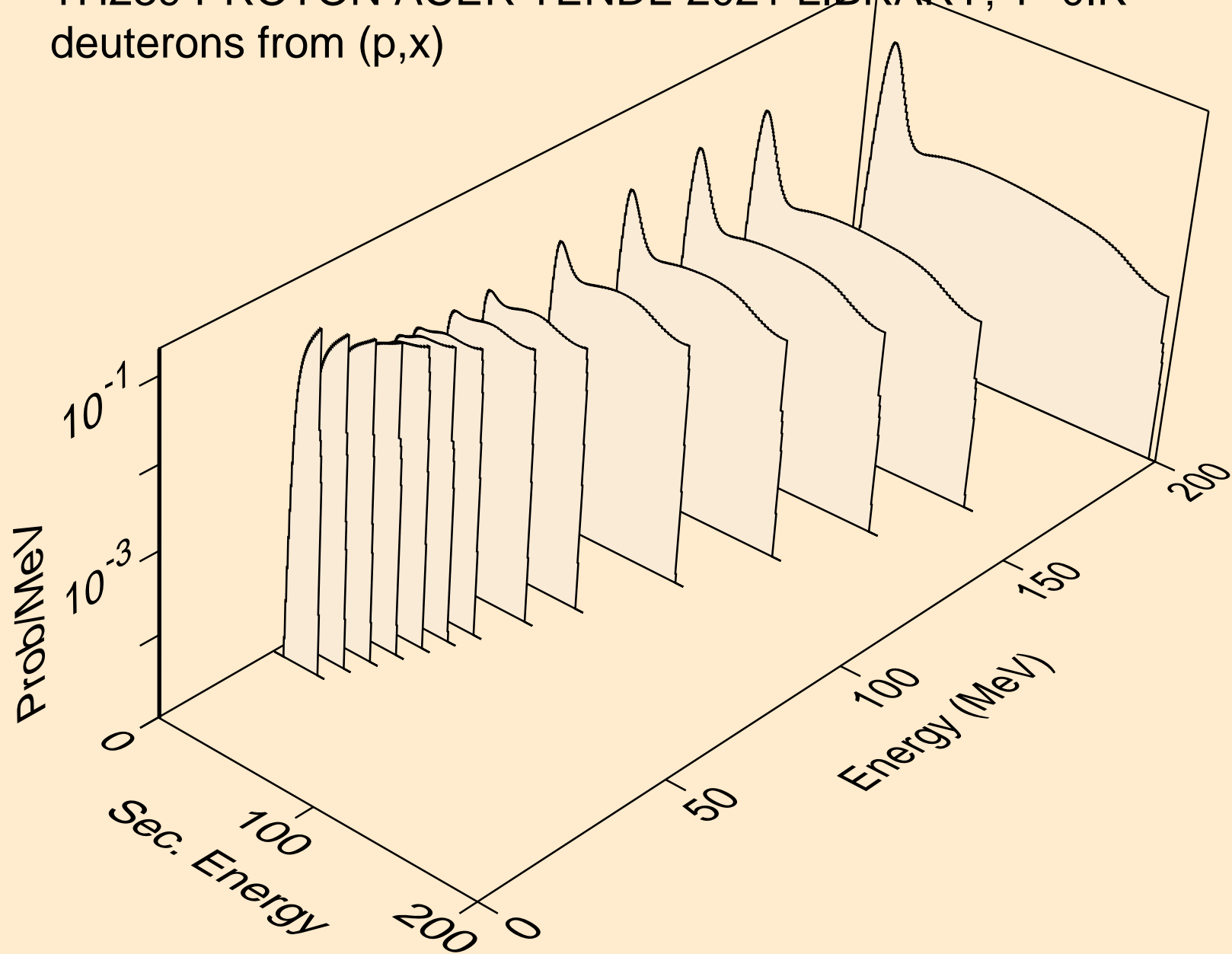
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (p,3np)



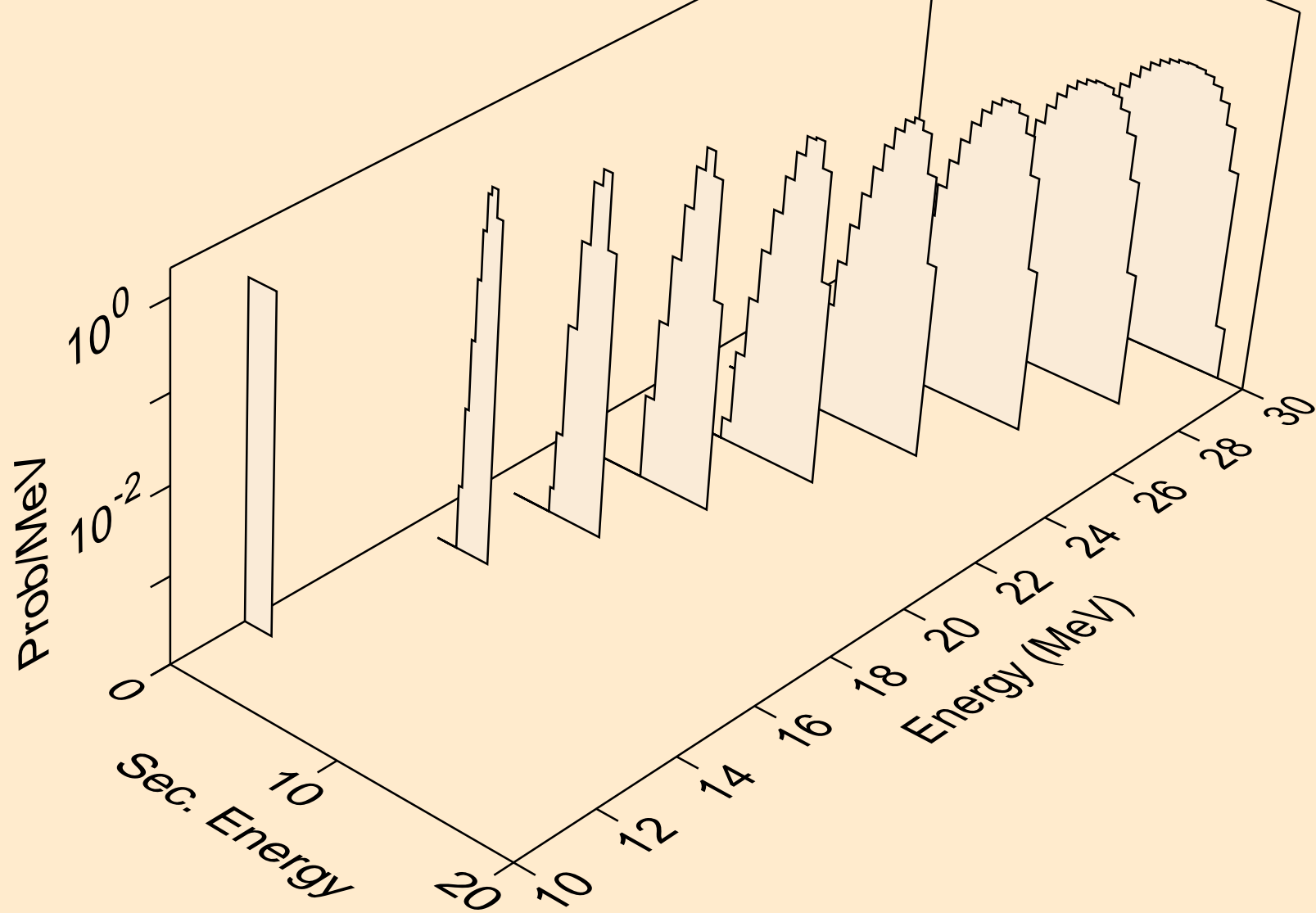
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neutrons from (p,2np)



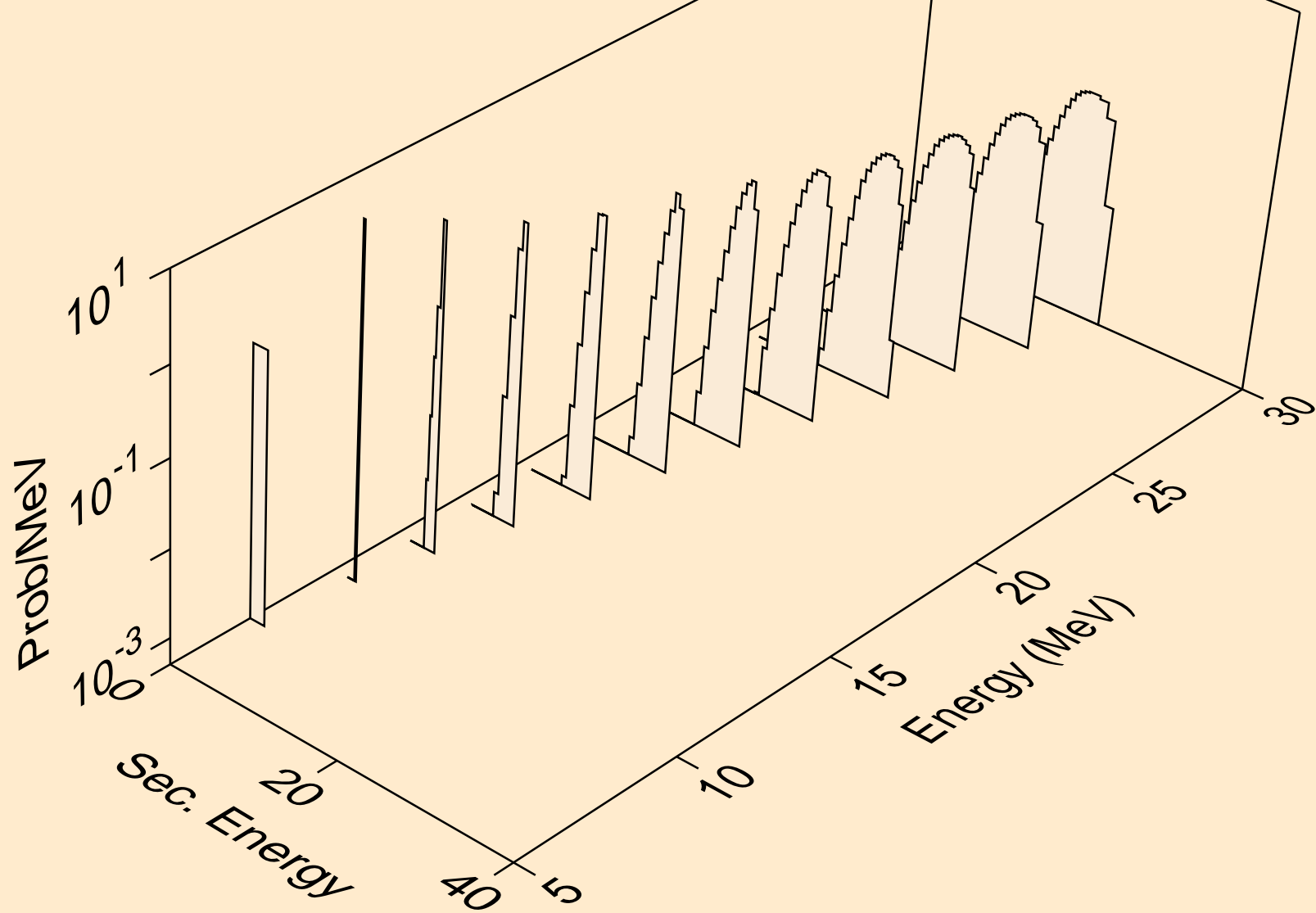
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,x)



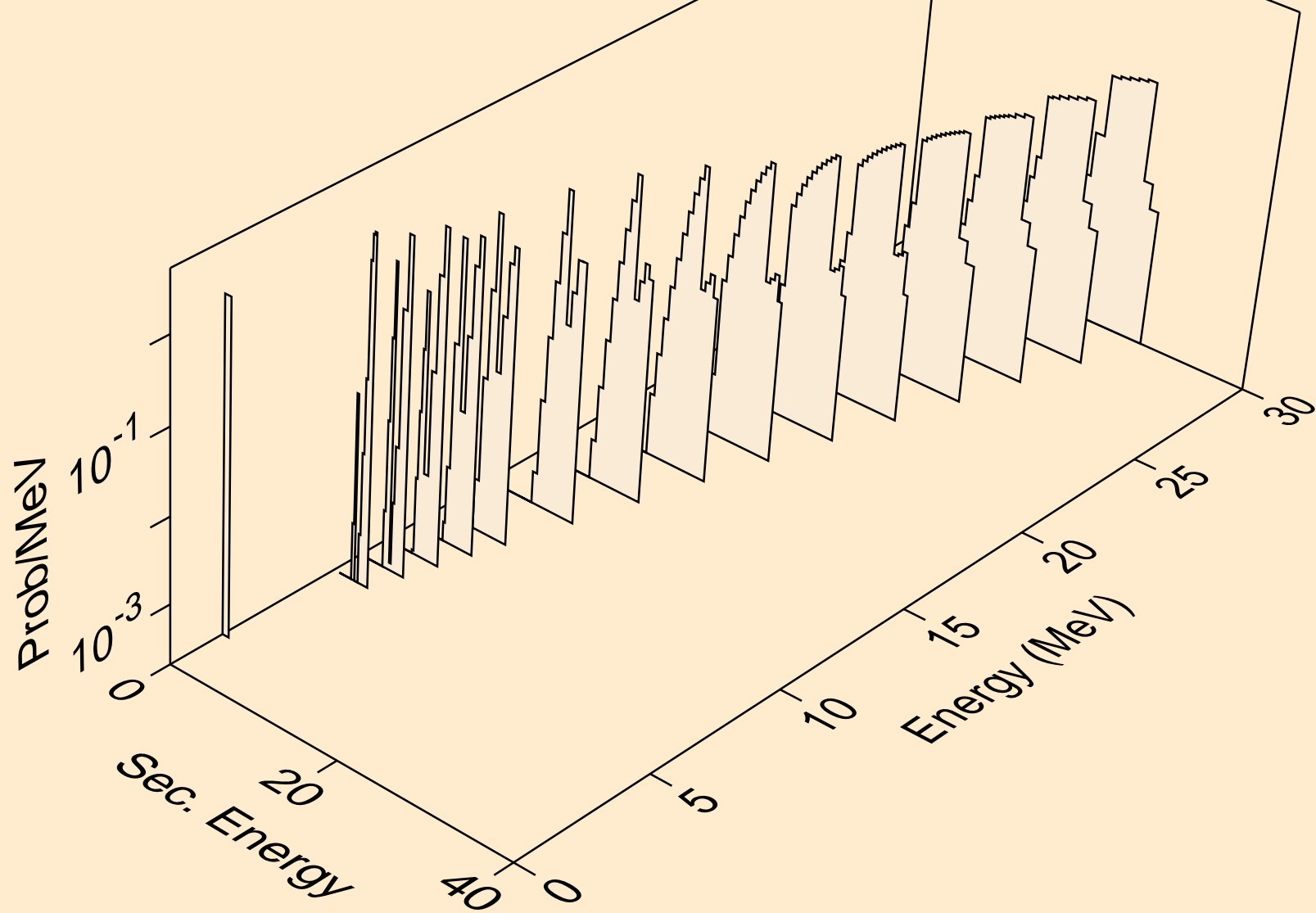
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,2nd)



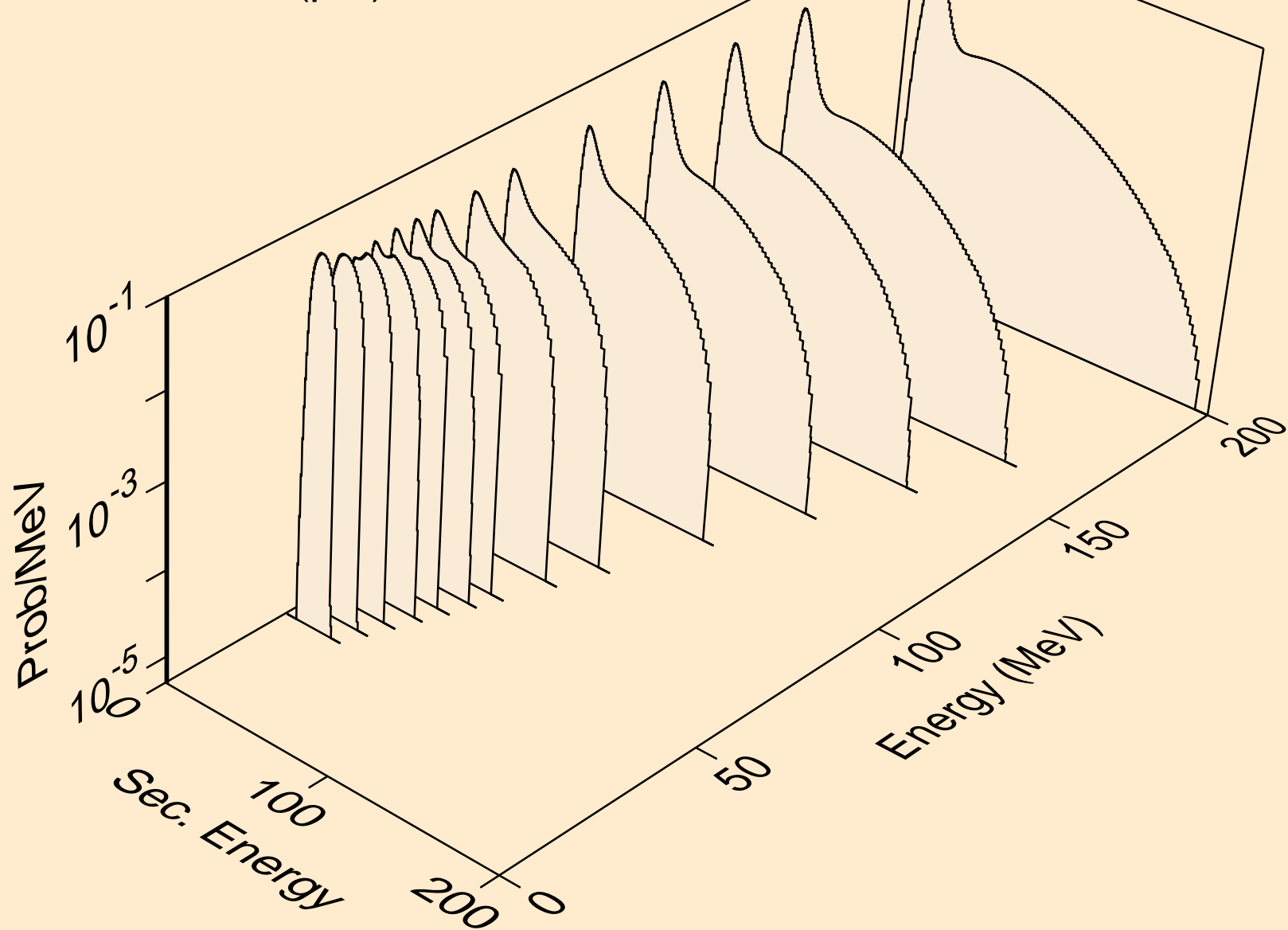
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,n\*)d



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (p,d)

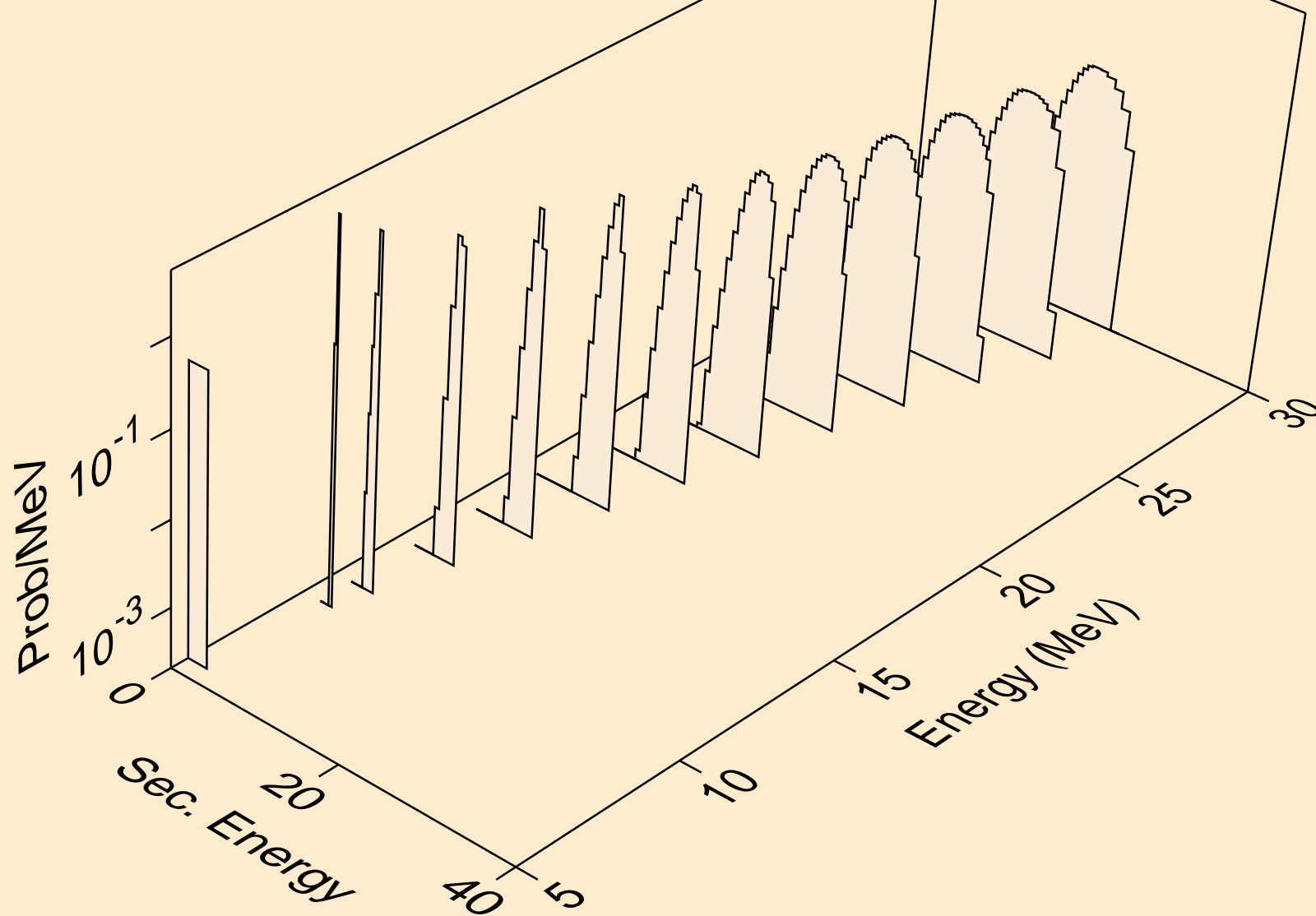


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,x)

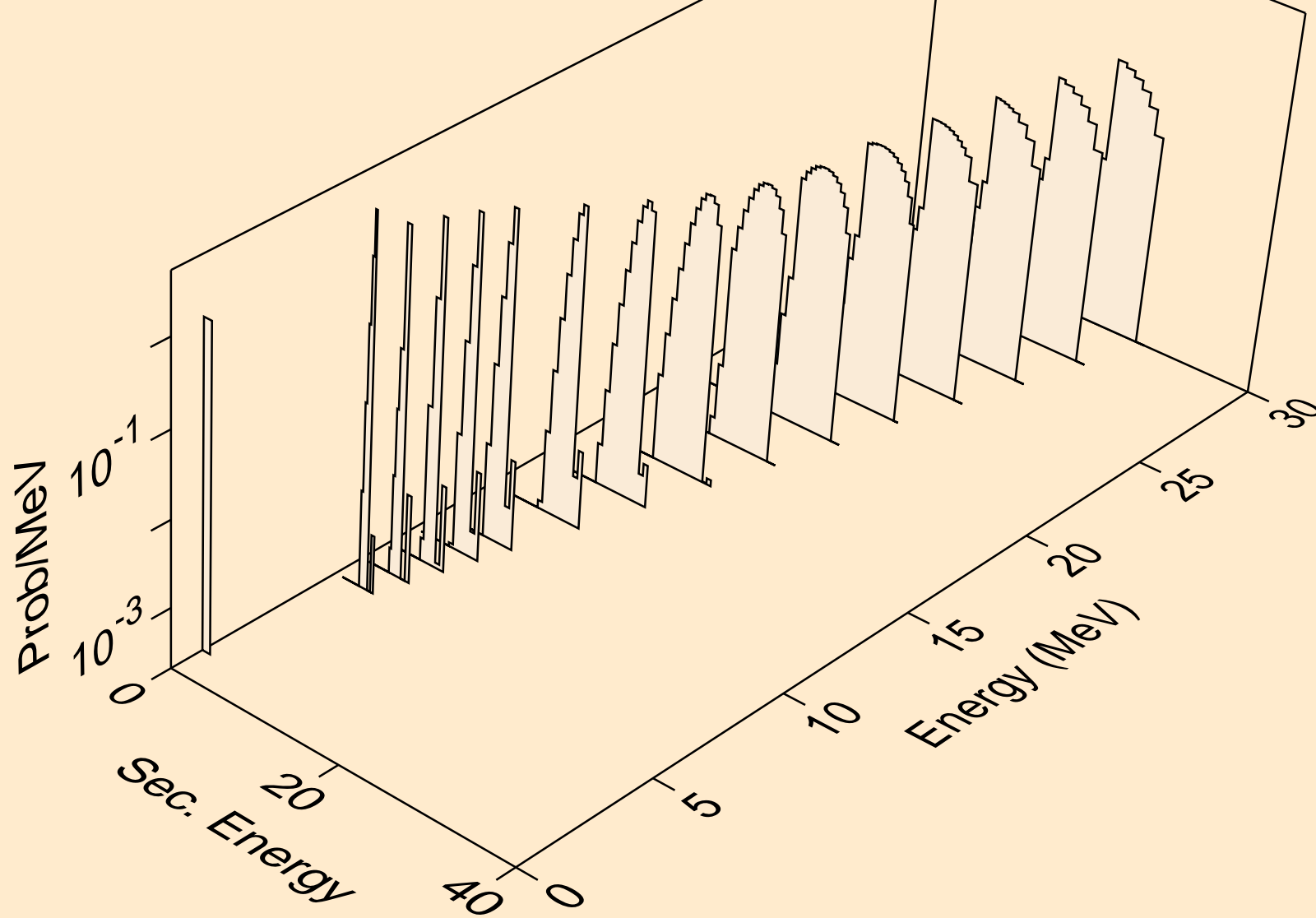




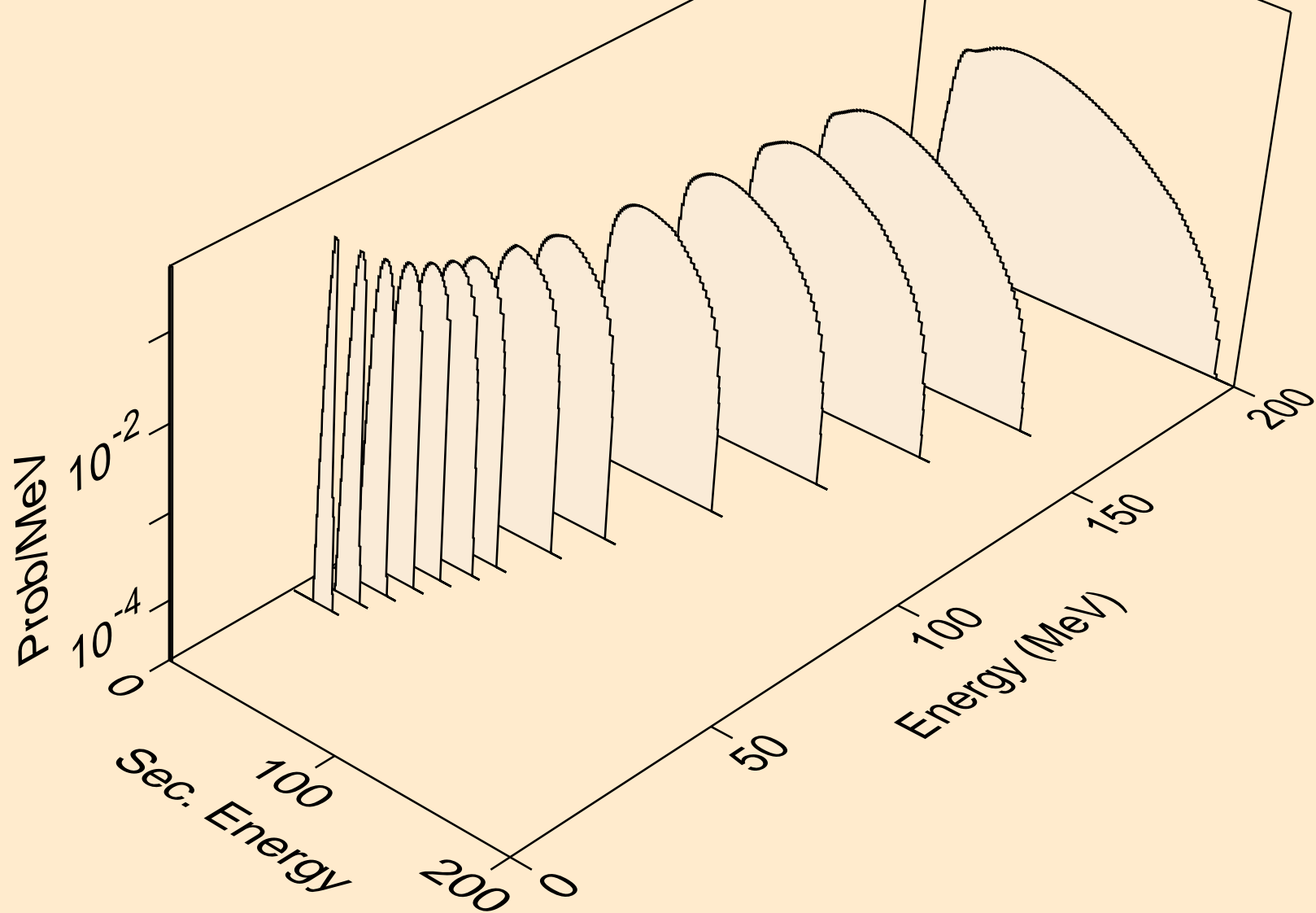
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,n\*)t



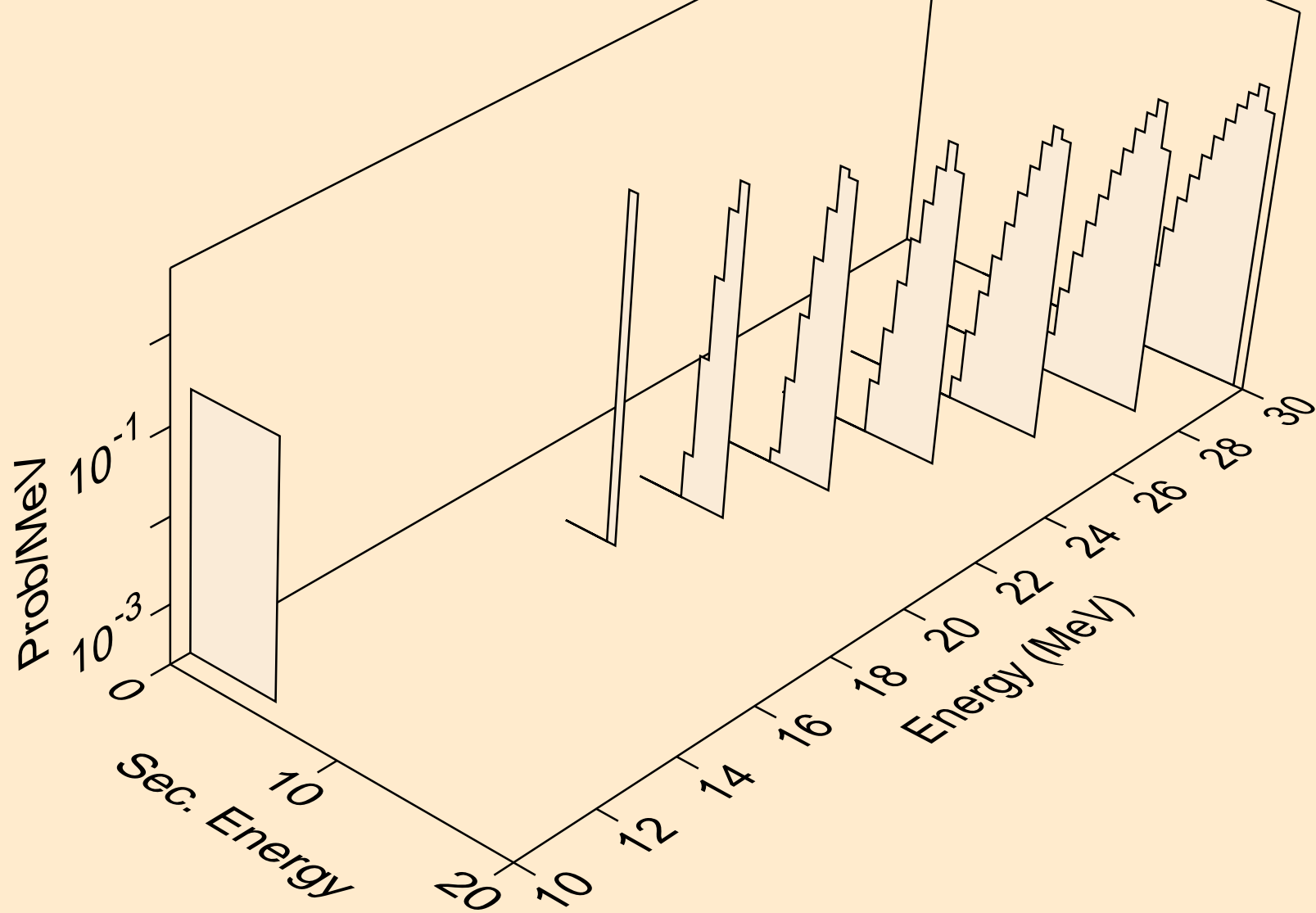
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (p,t)



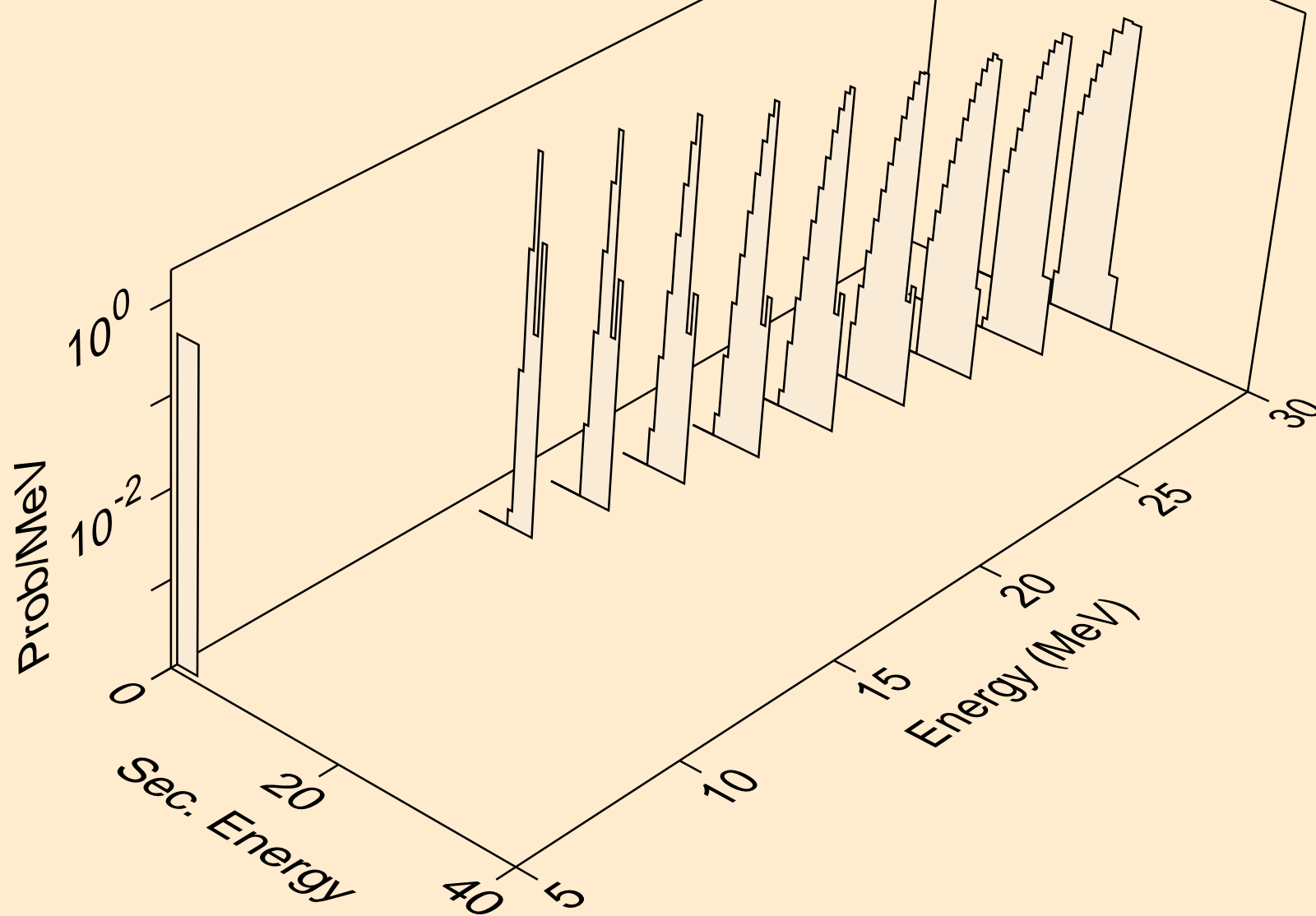
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,x)



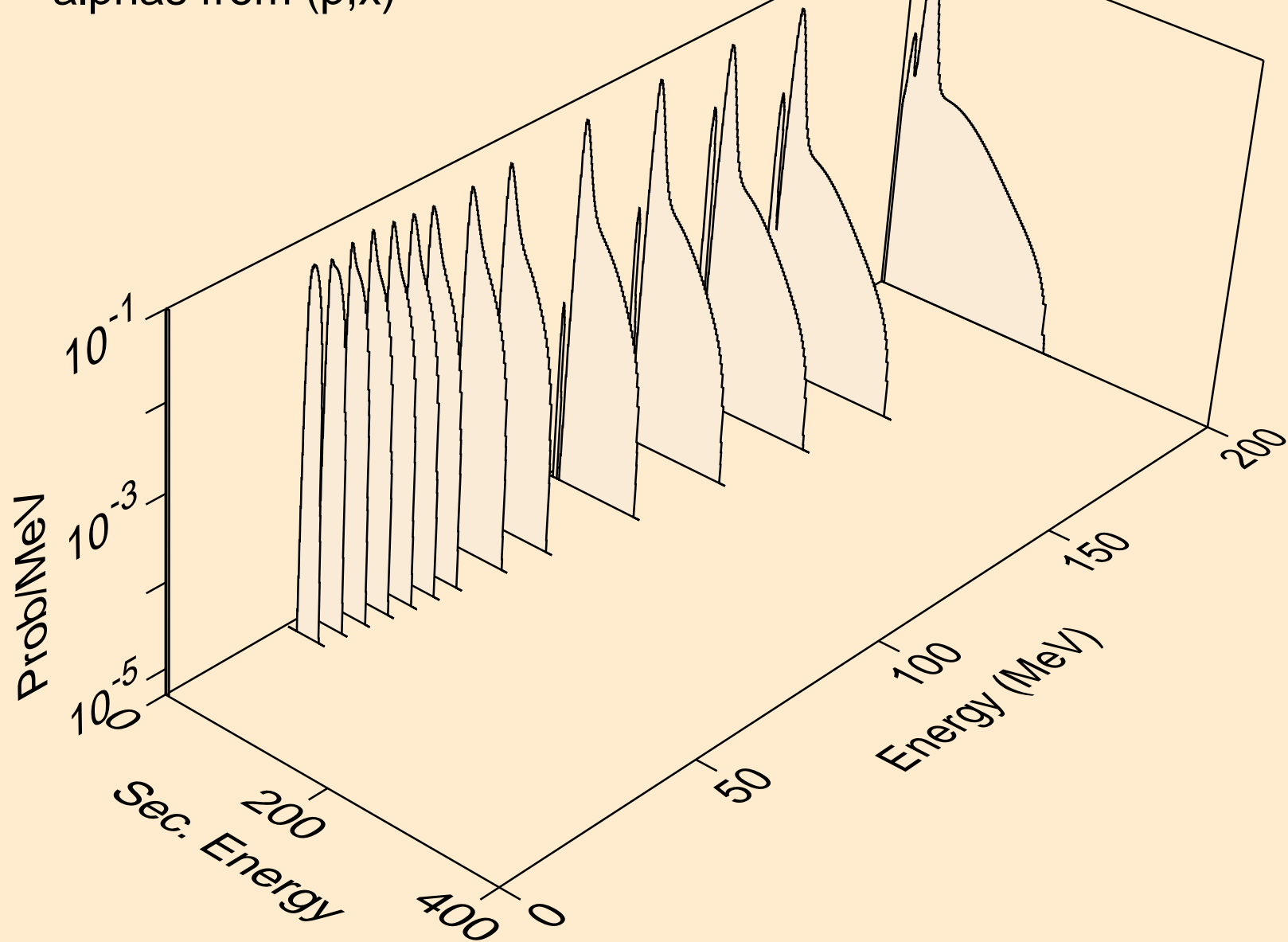
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,n\*)he3



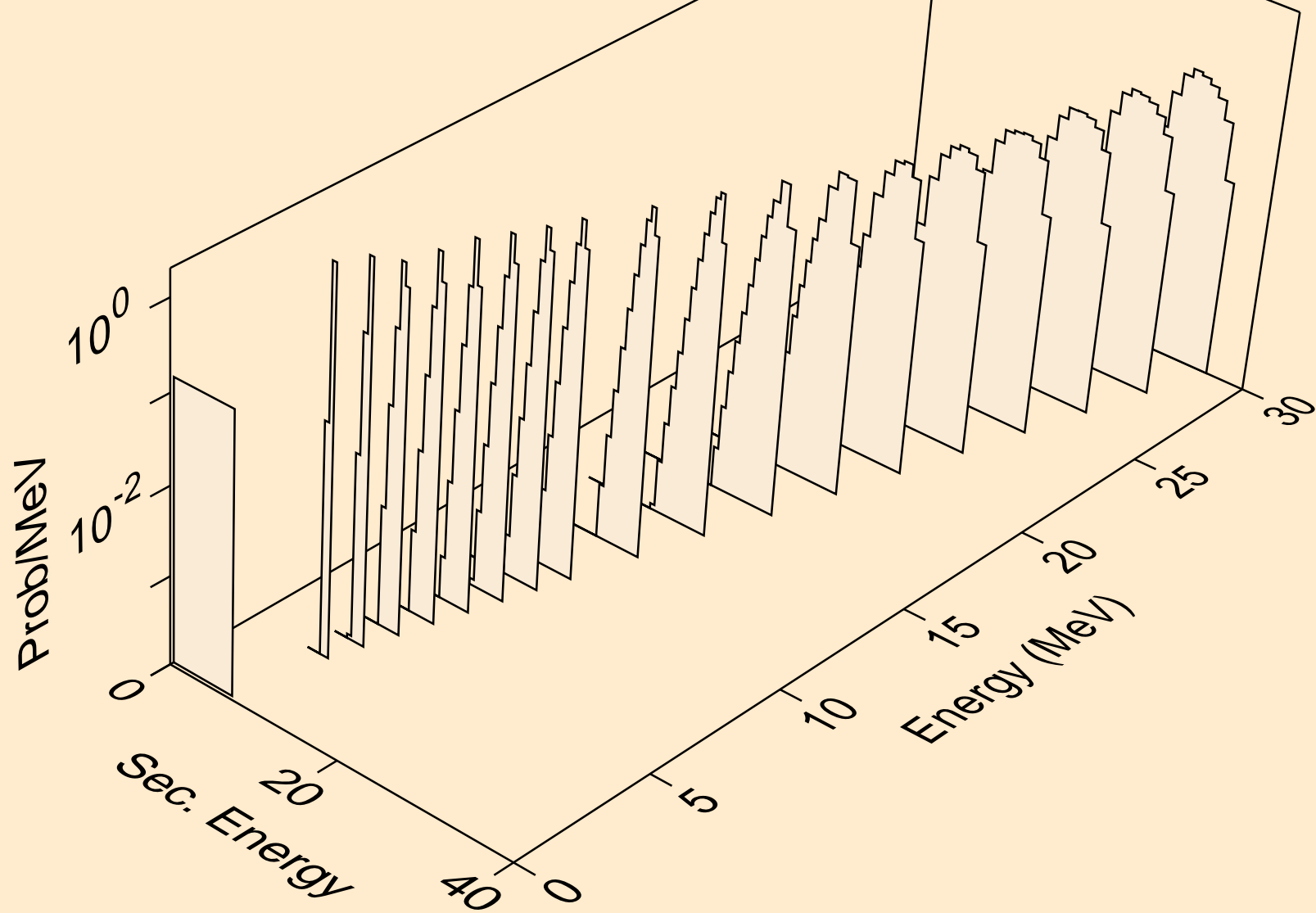
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (p,he3)



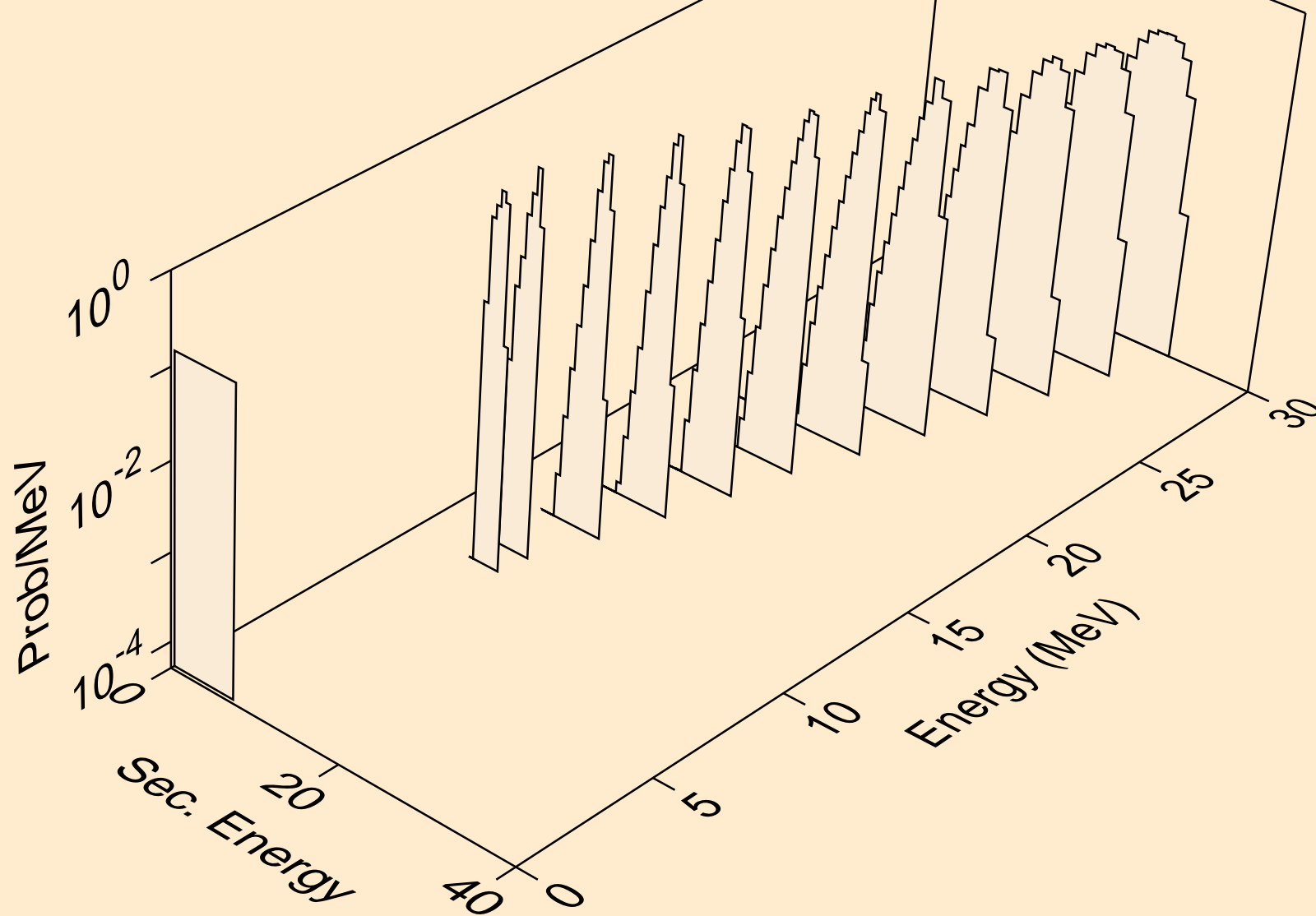
TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,x)



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,n\*)a

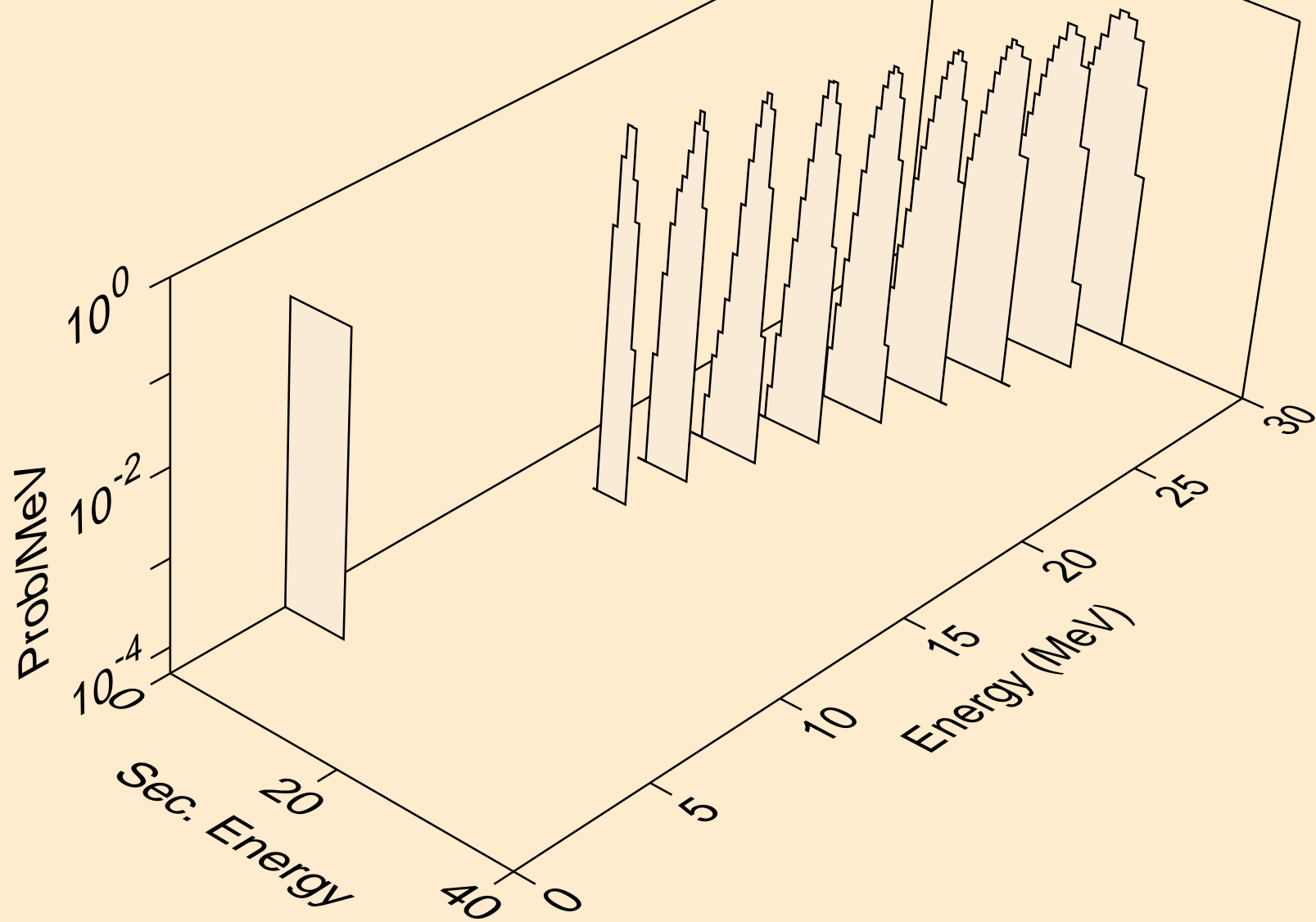


TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,2n)a





TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,3n)a



TH239 PROTON ACER TENDL-2021 LIBRARY; T=0.K  
alphas from (p,a)

