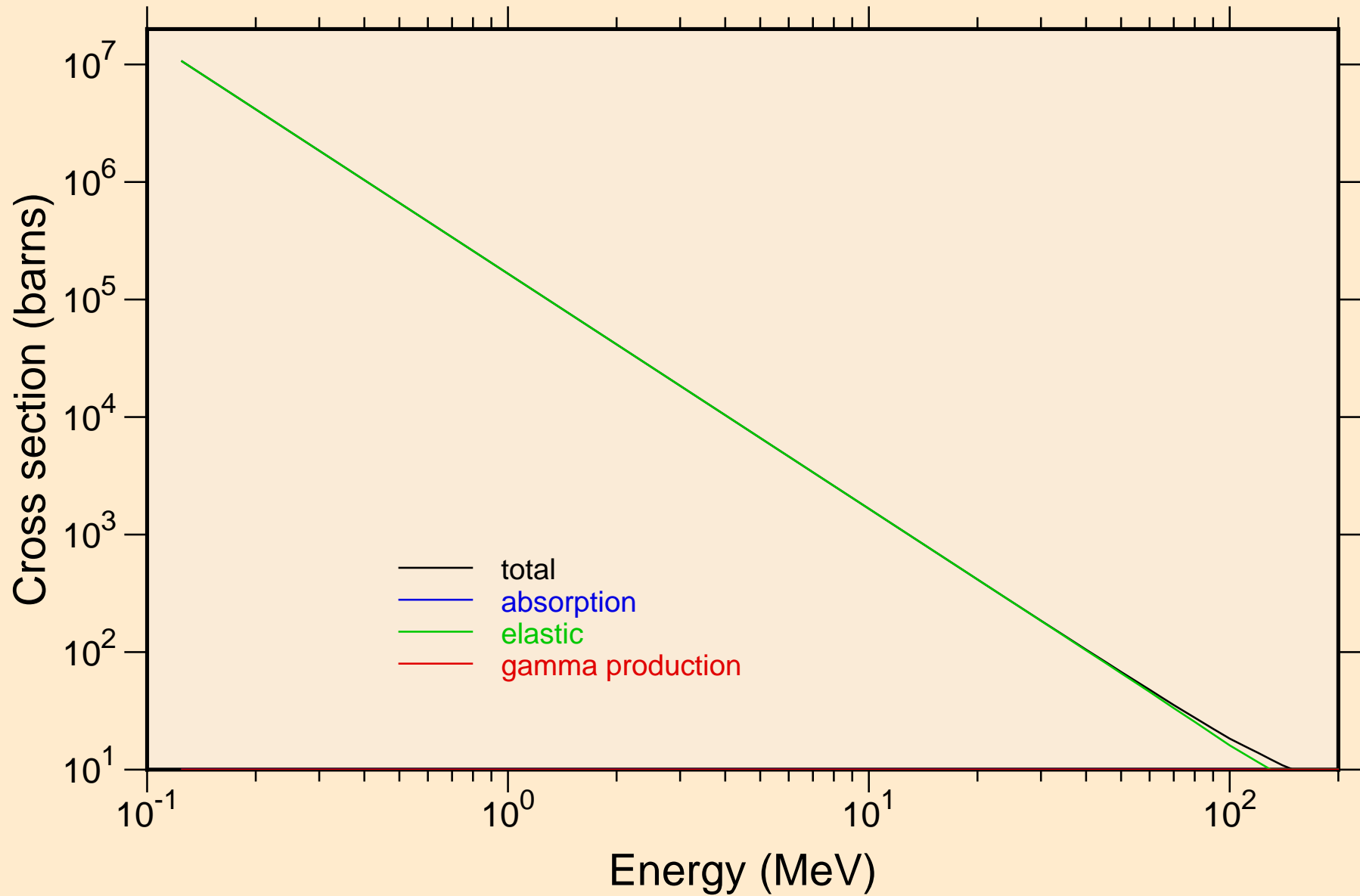
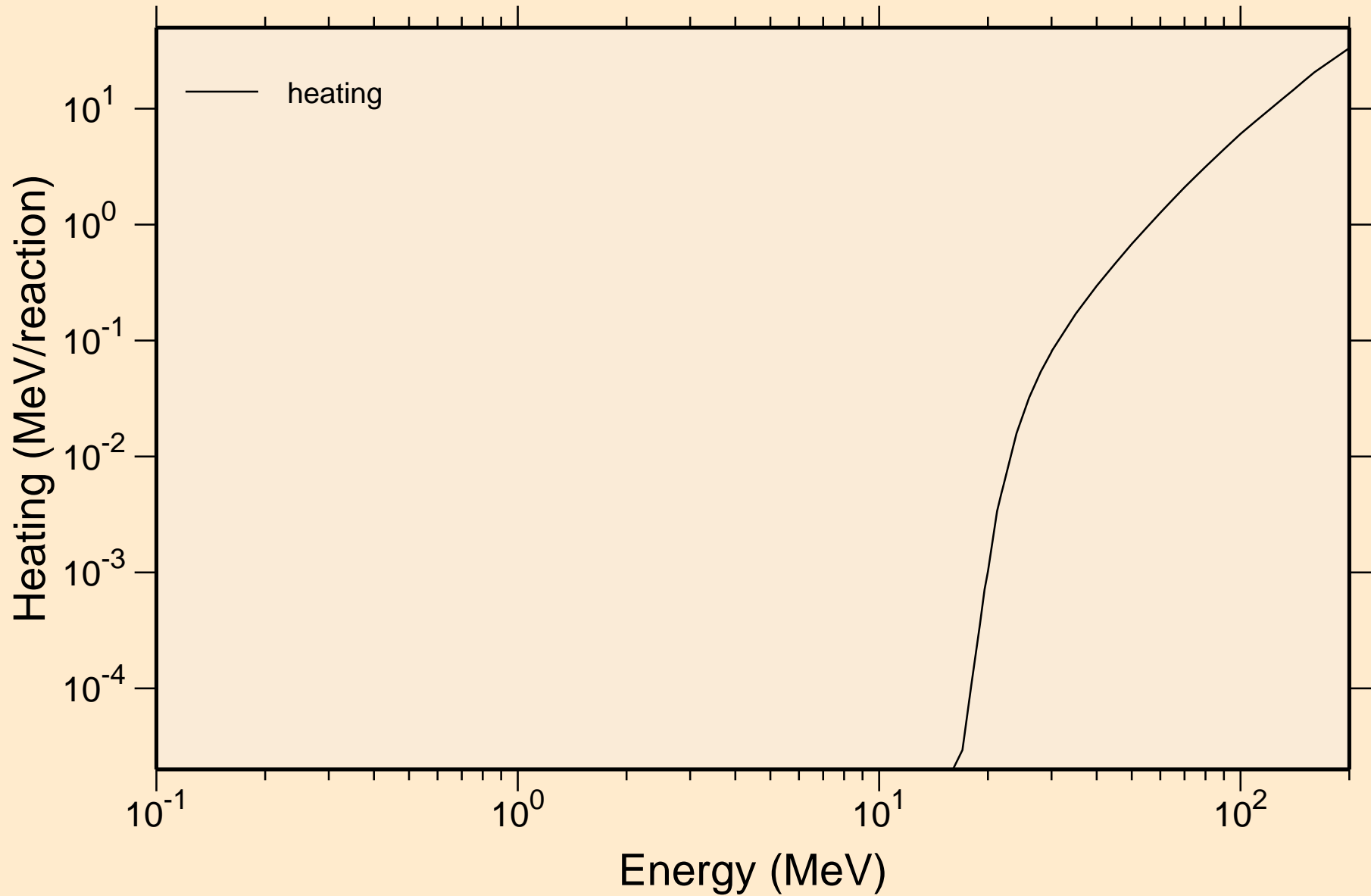


TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Principal cross sections



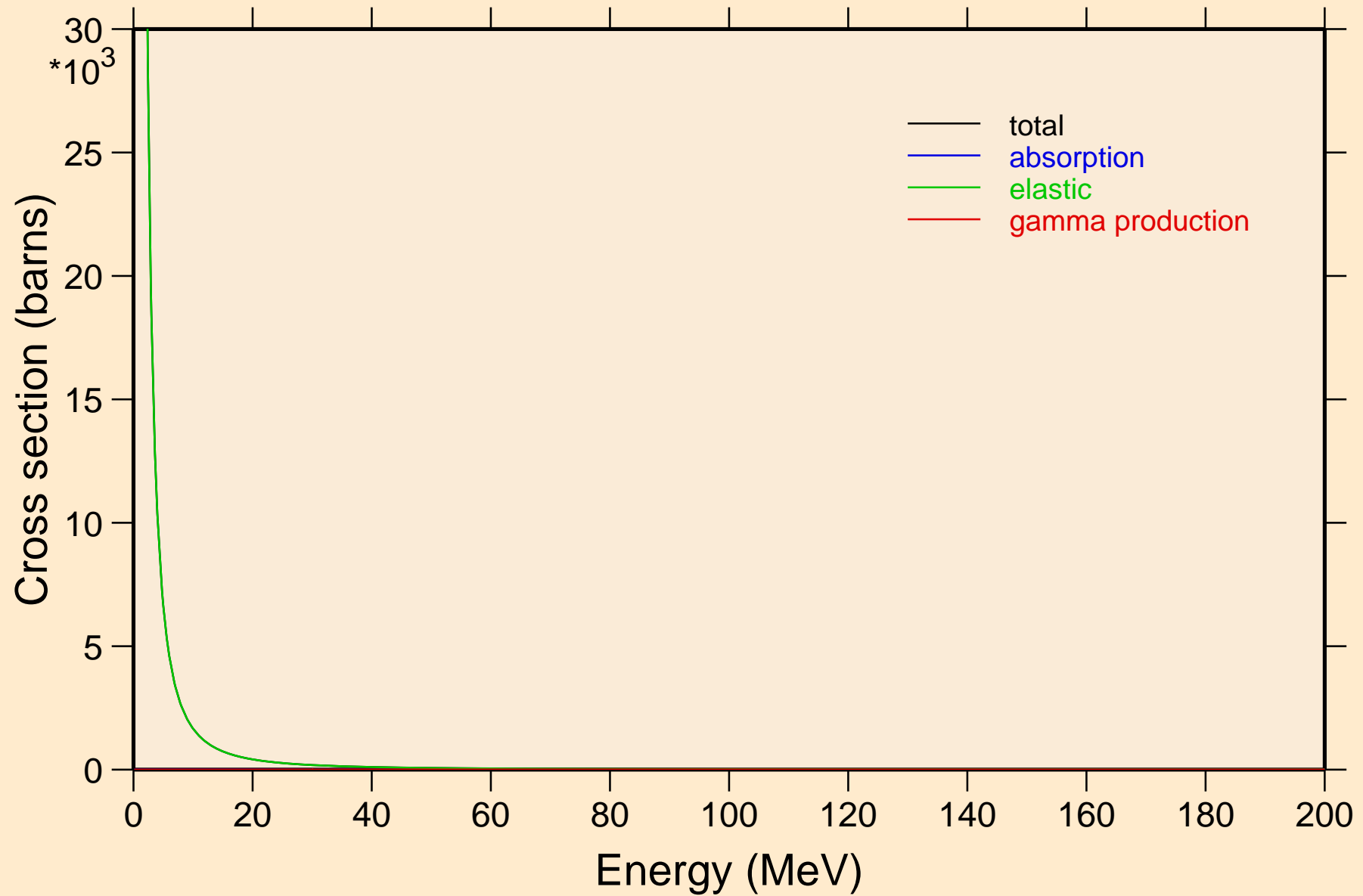
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K

Heating



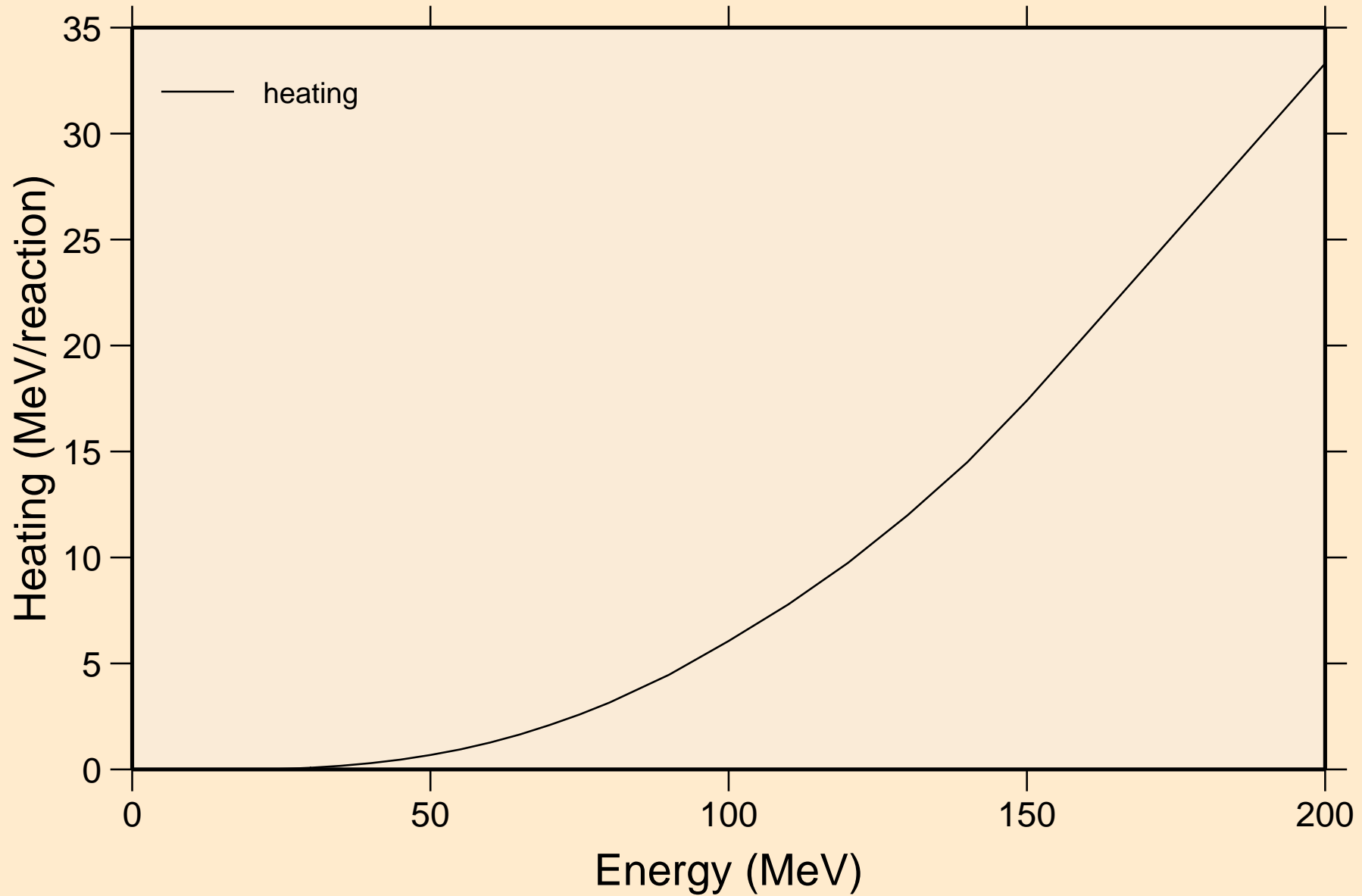
# TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K

## Principal cross sections

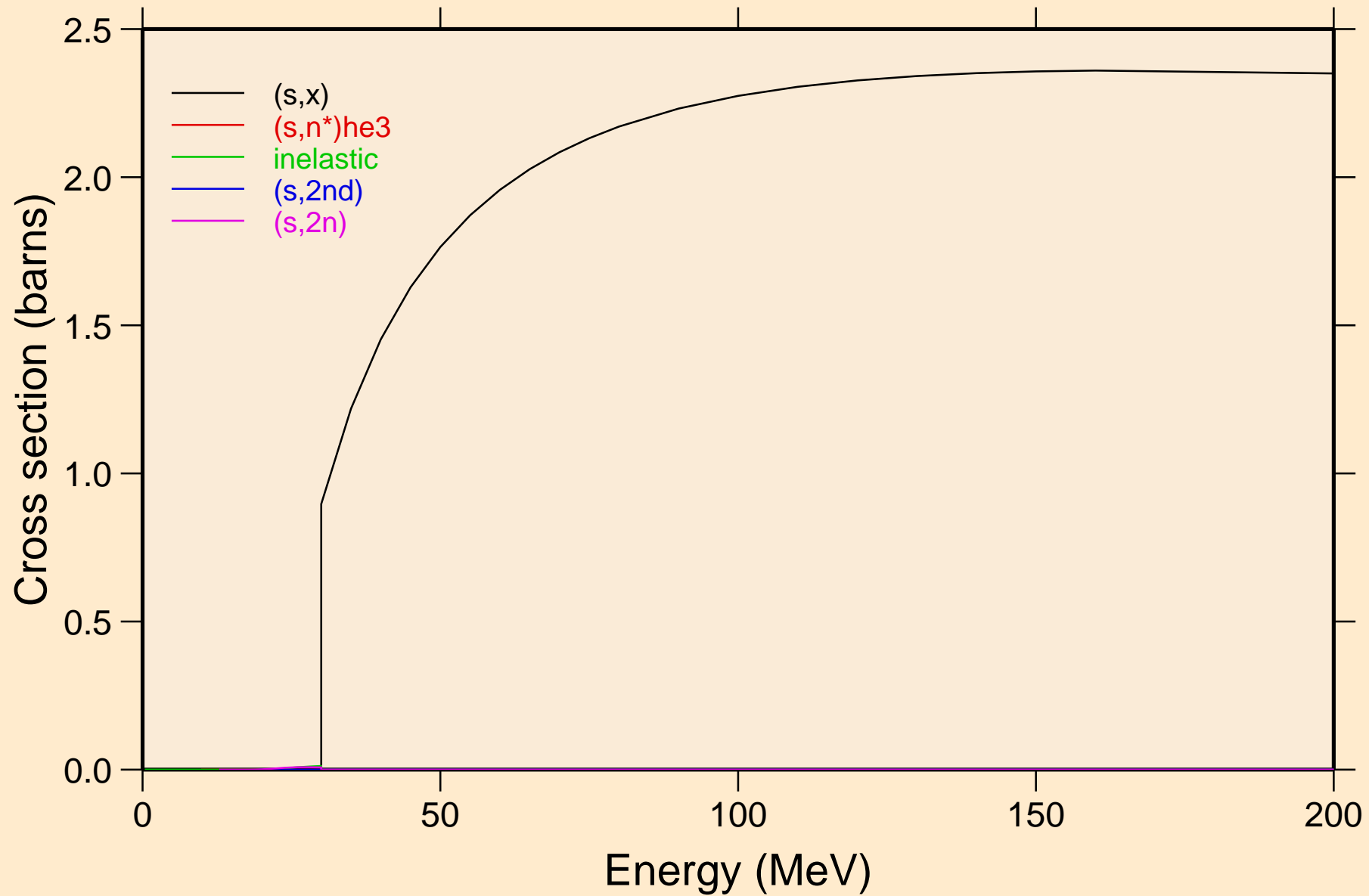


TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K

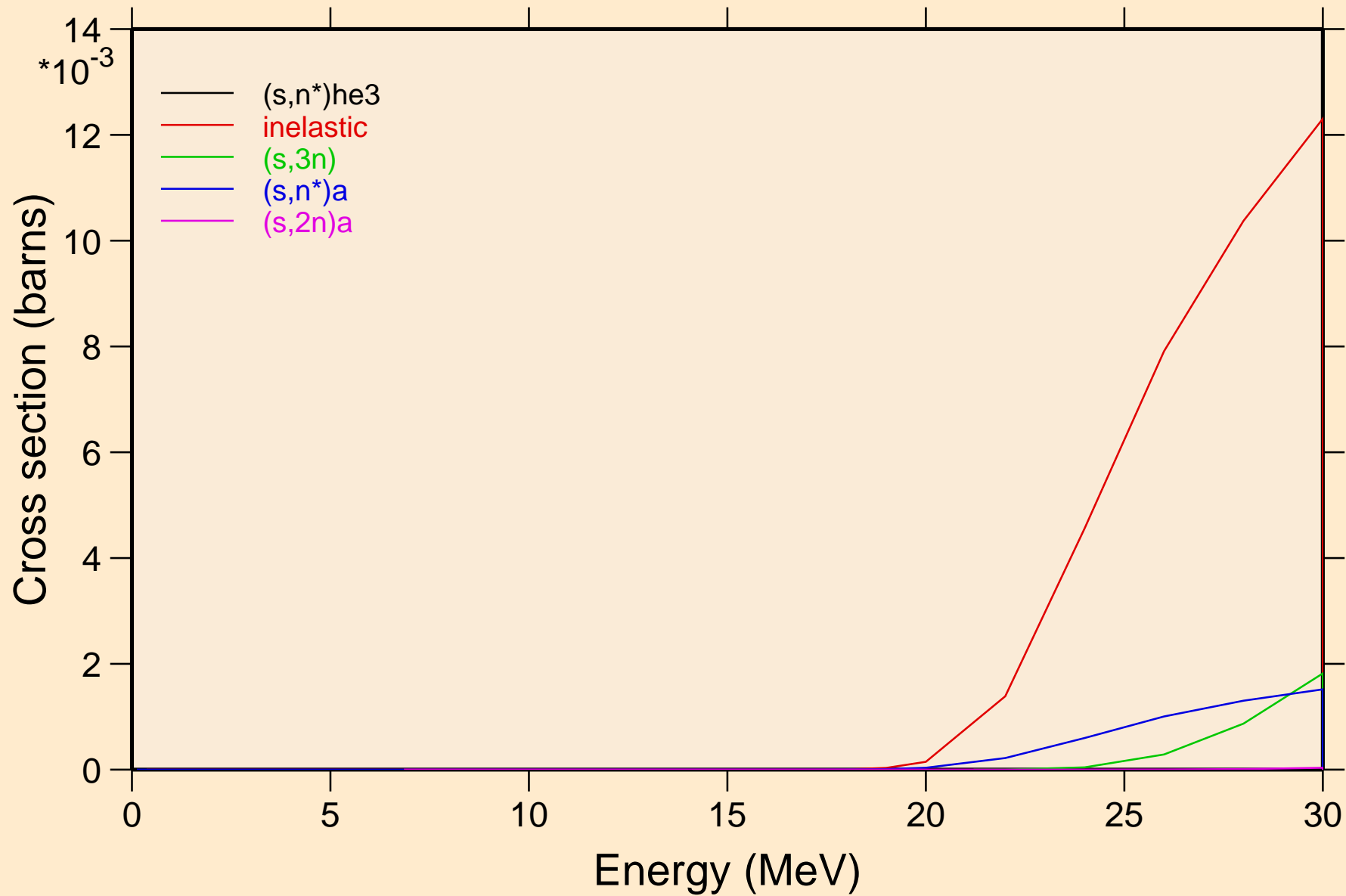
Heating



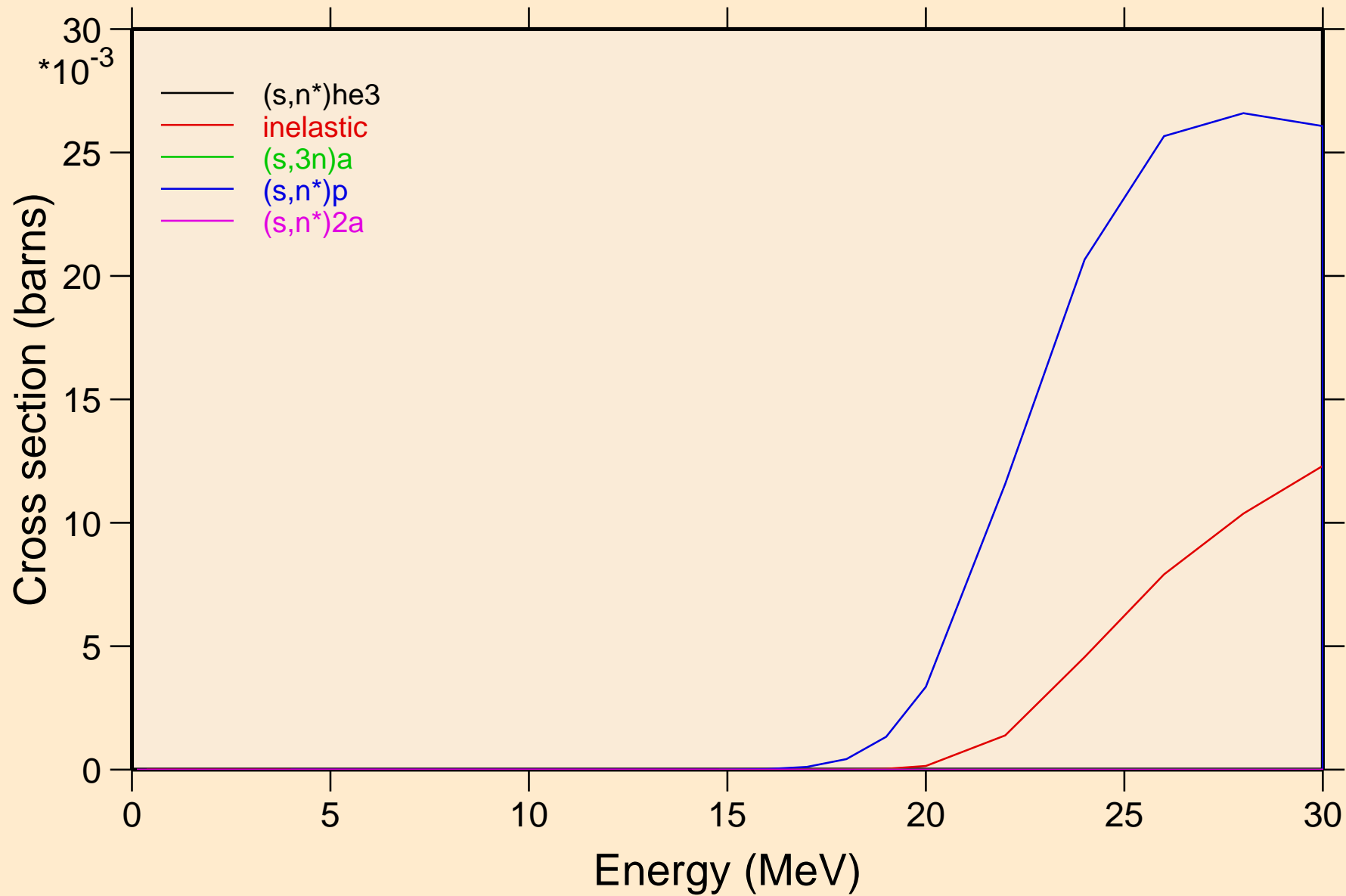
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



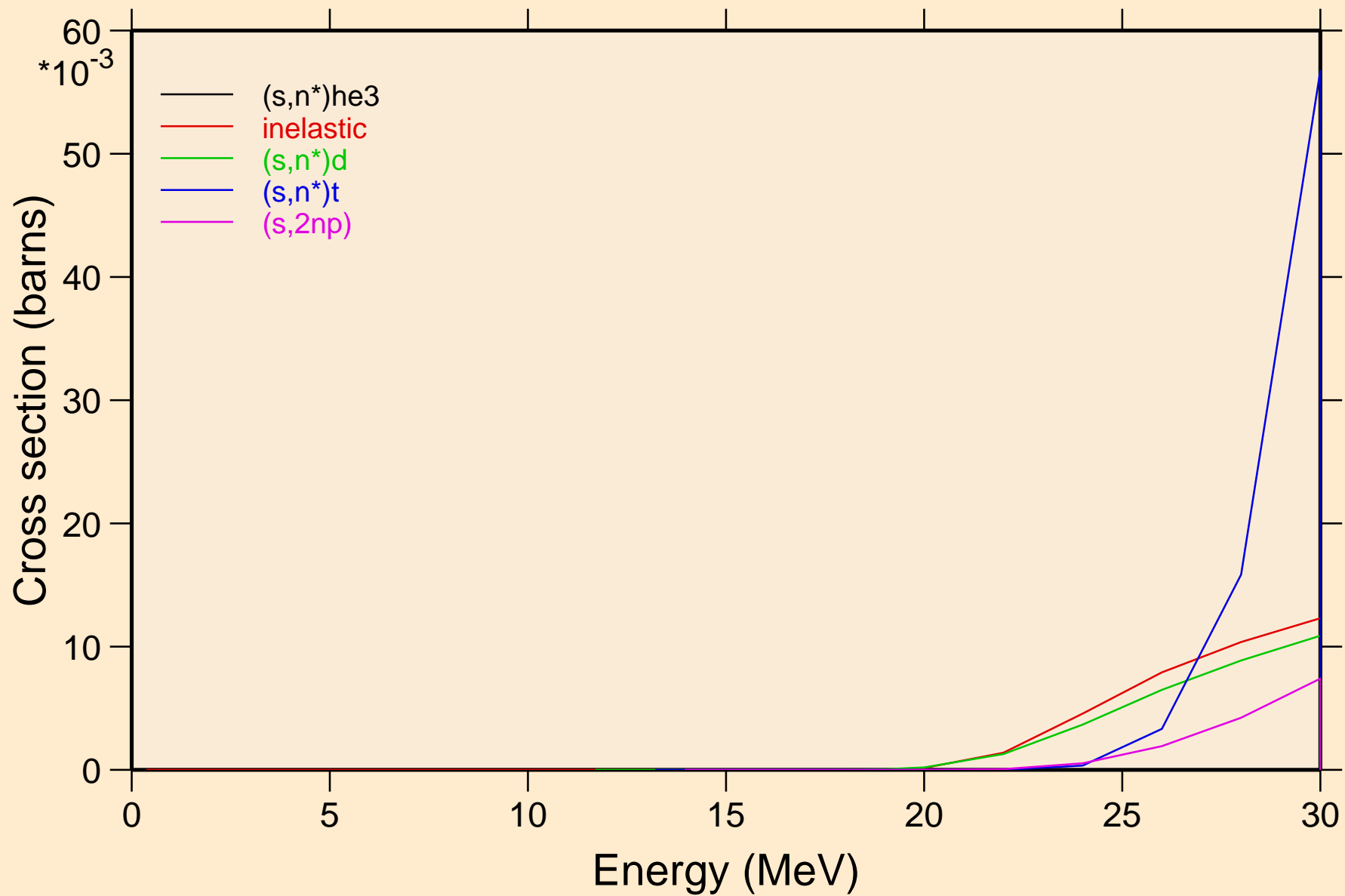
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



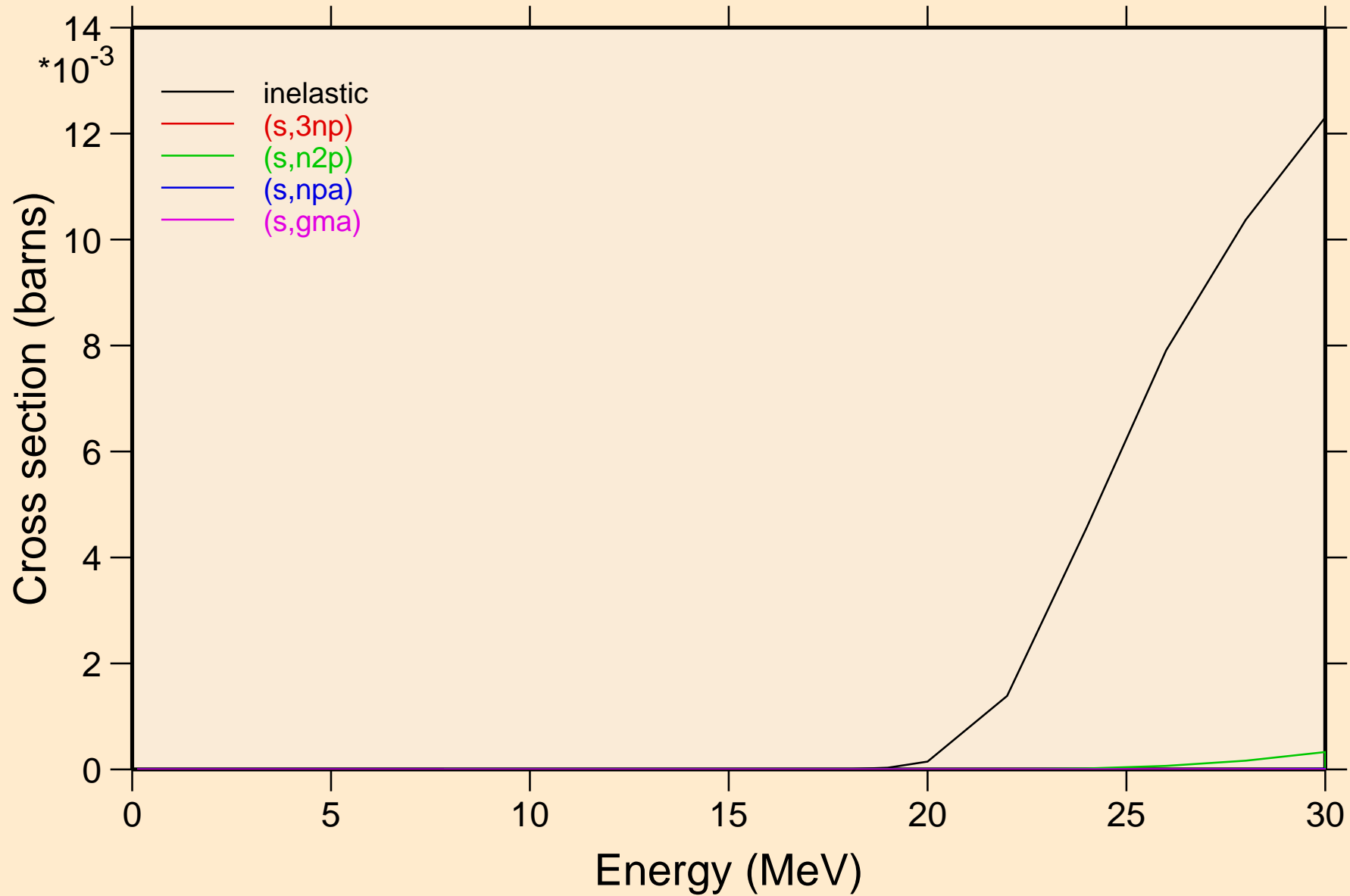
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



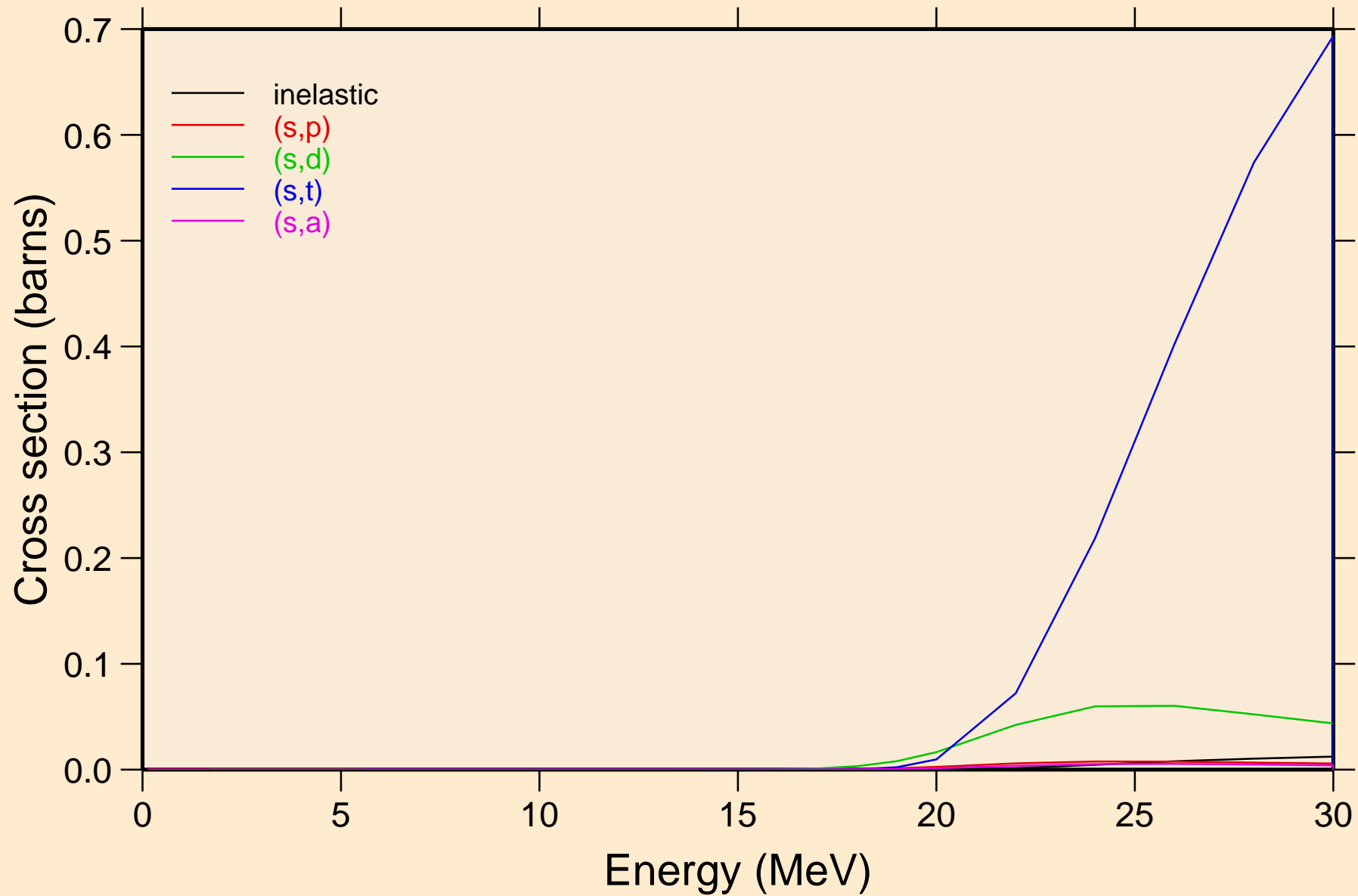
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



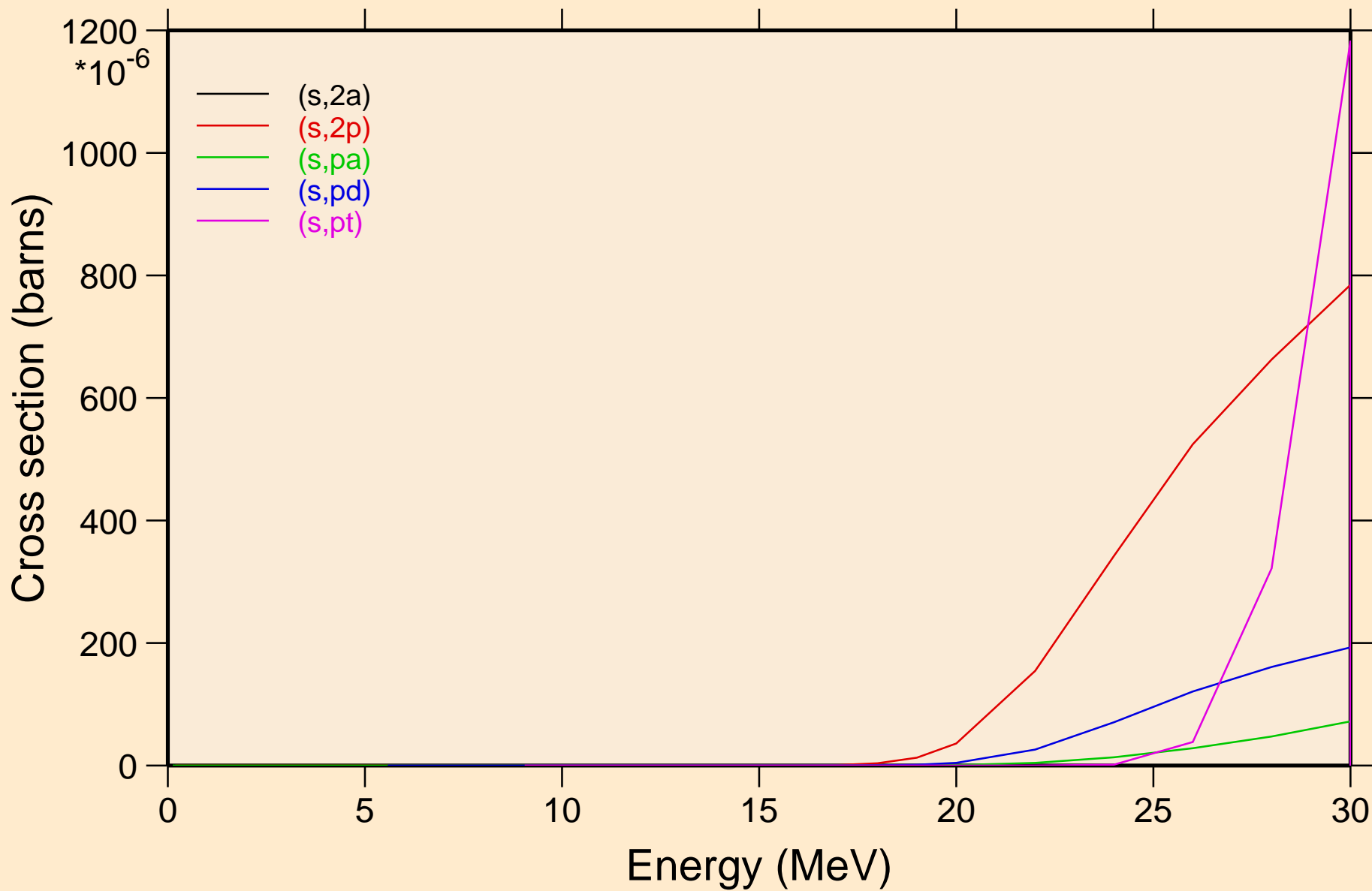
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



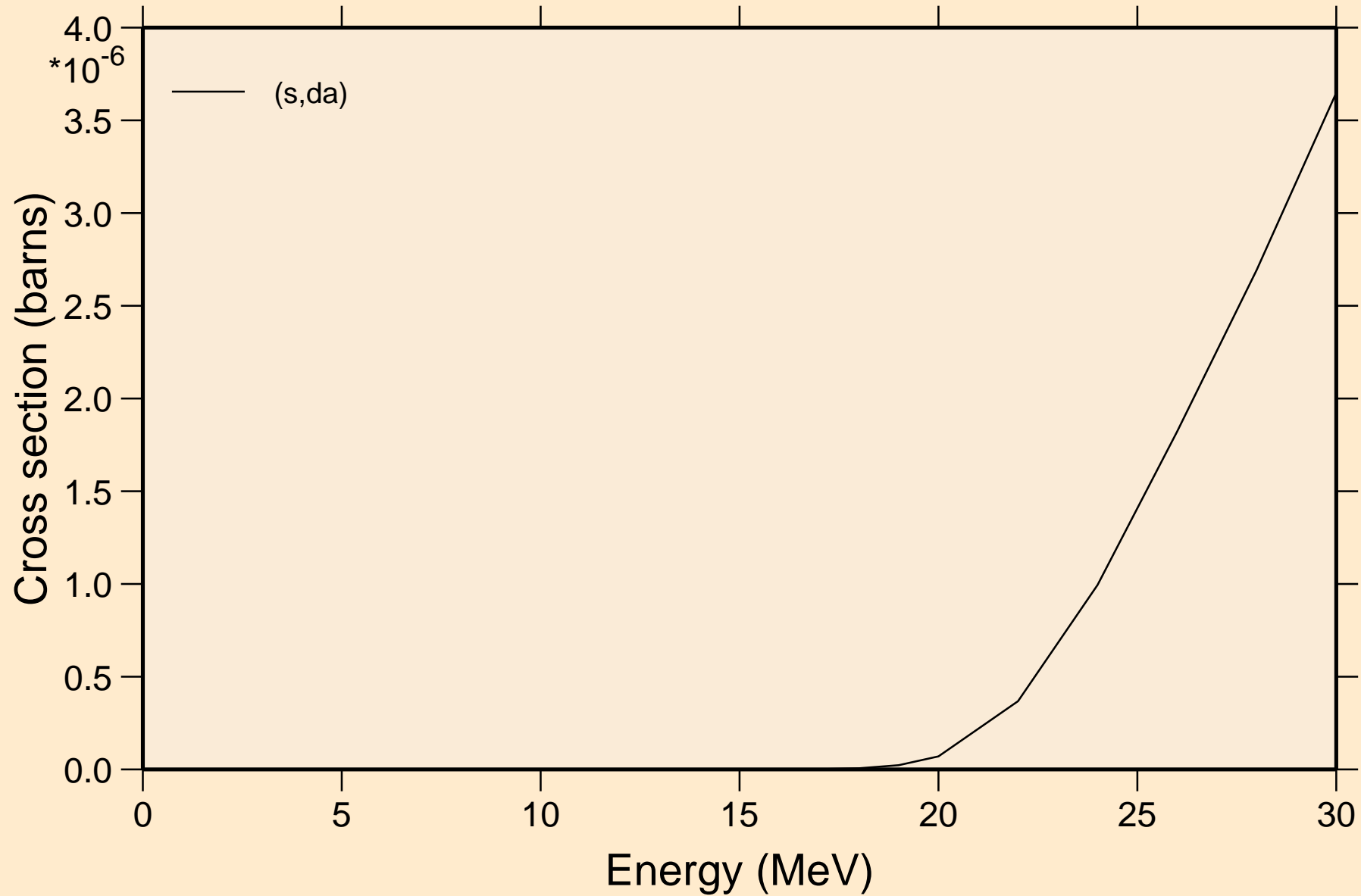
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



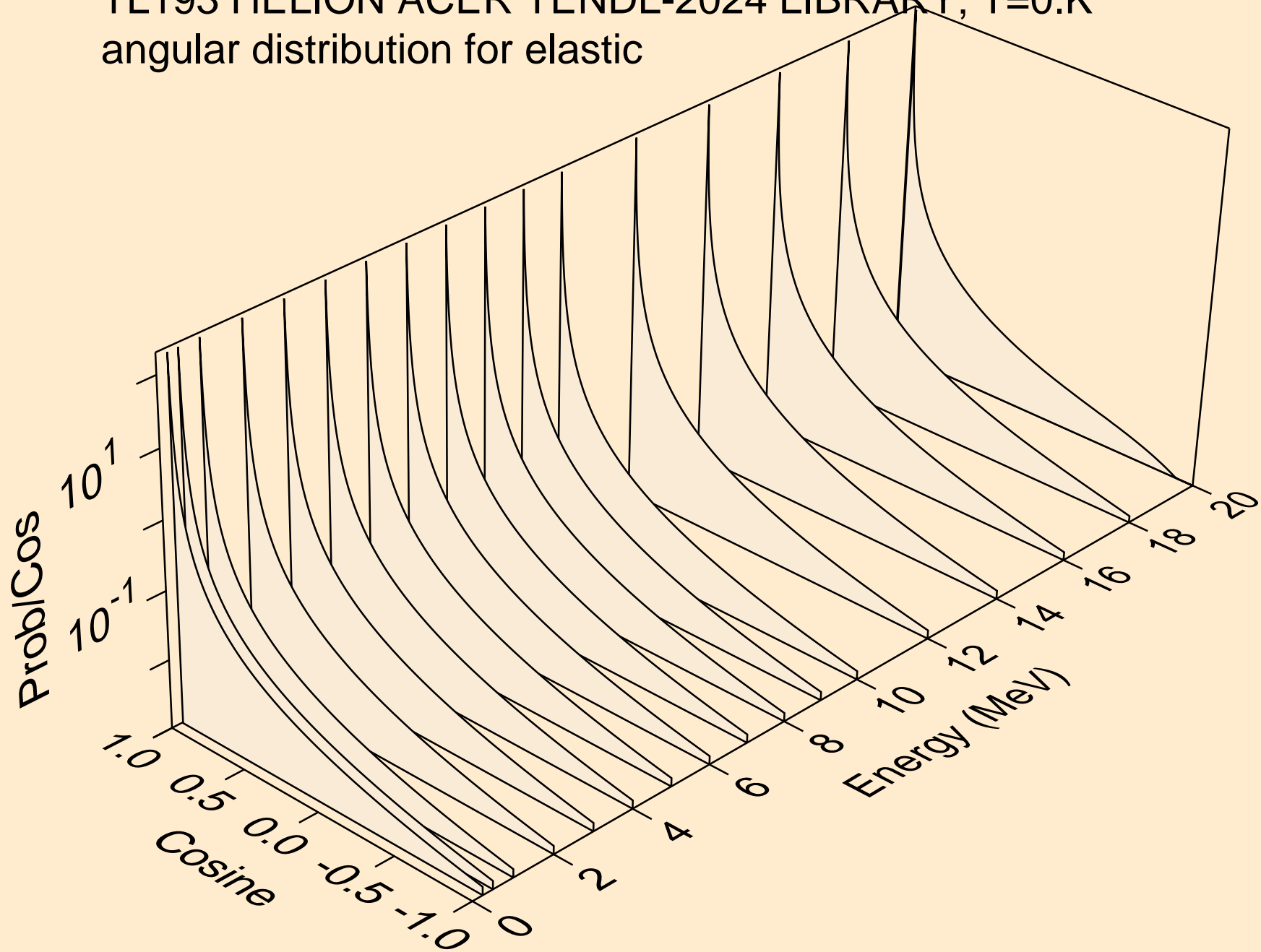
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



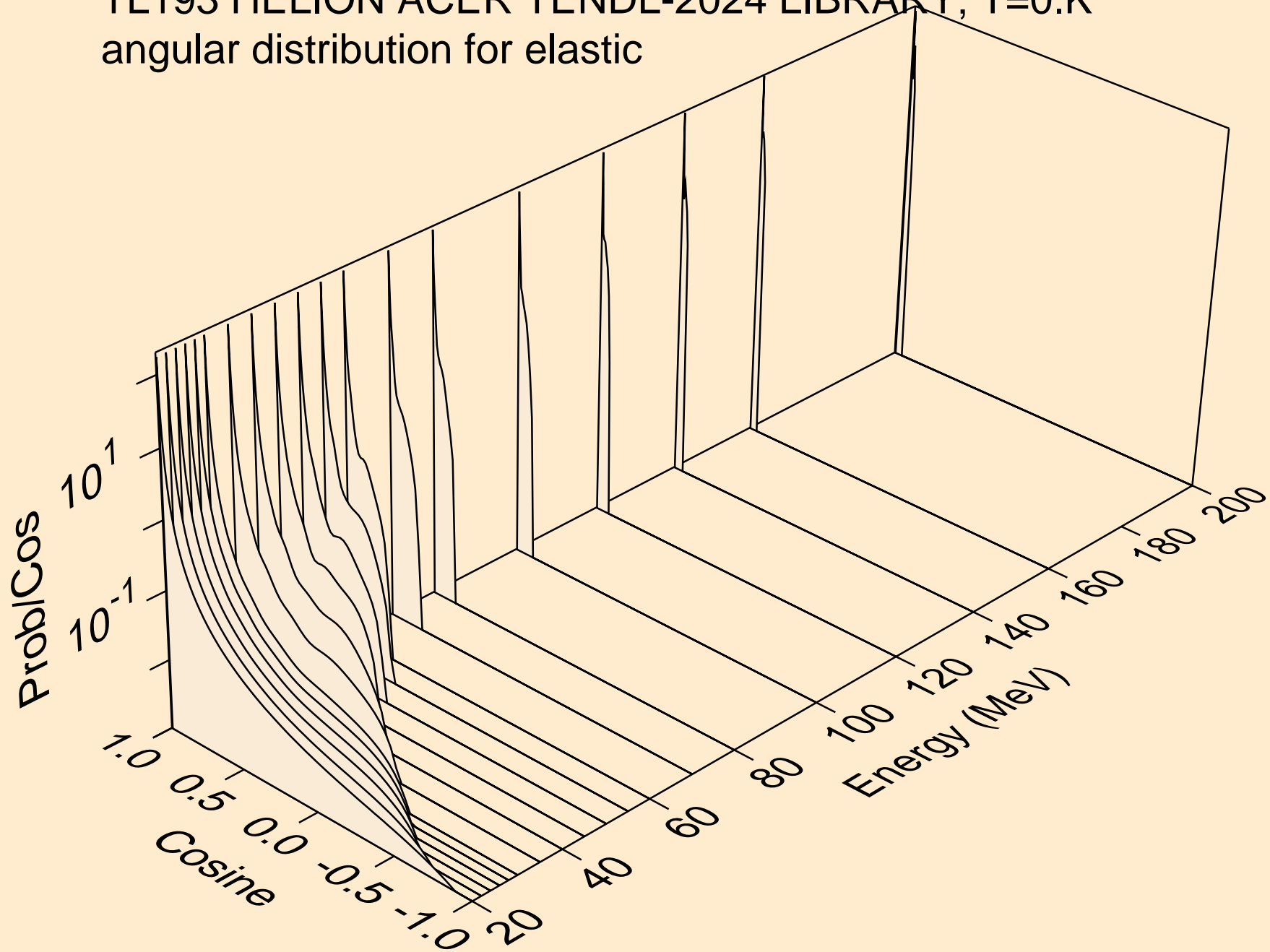
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Threshold reactions



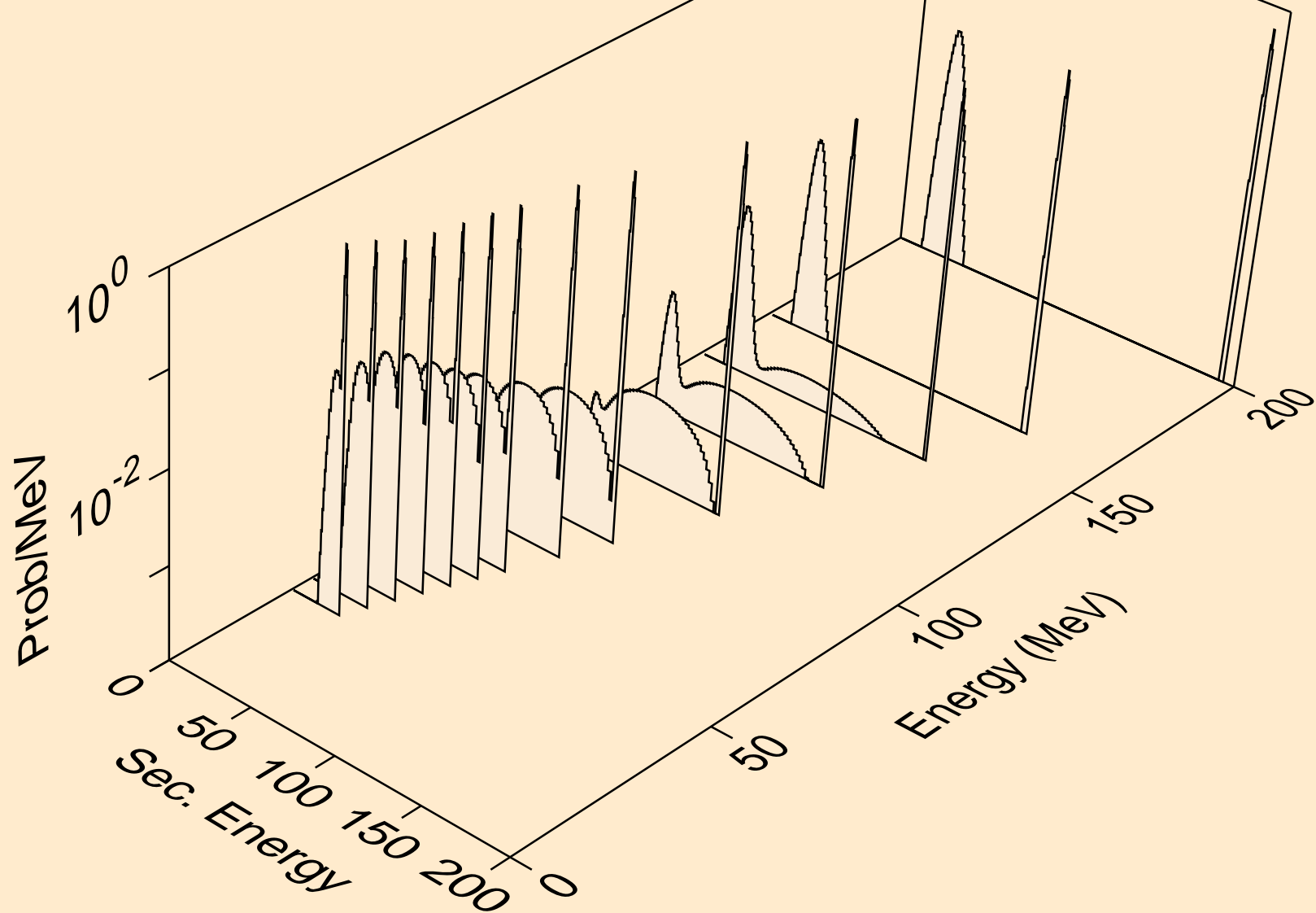
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



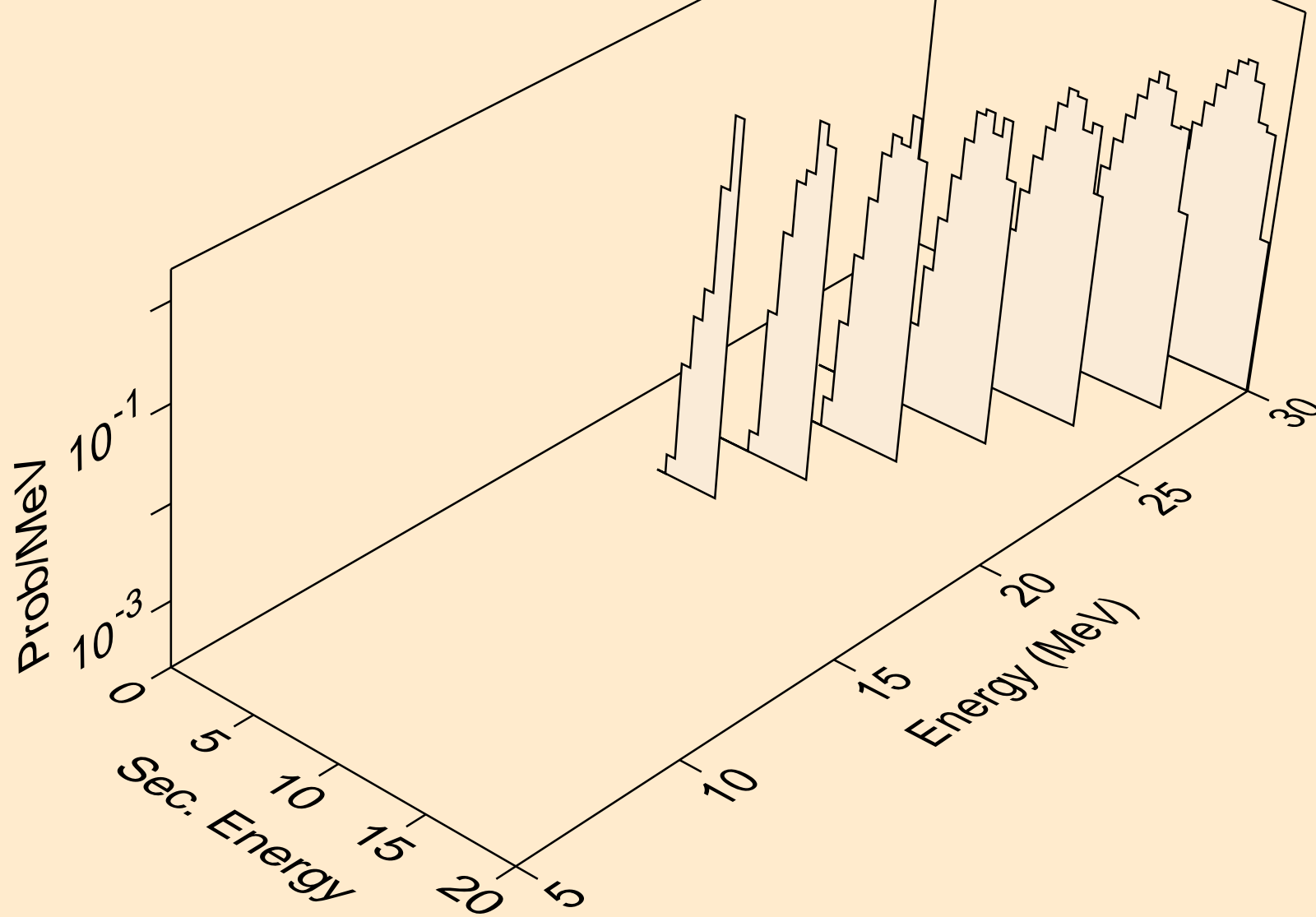
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
angular distribution for elastic



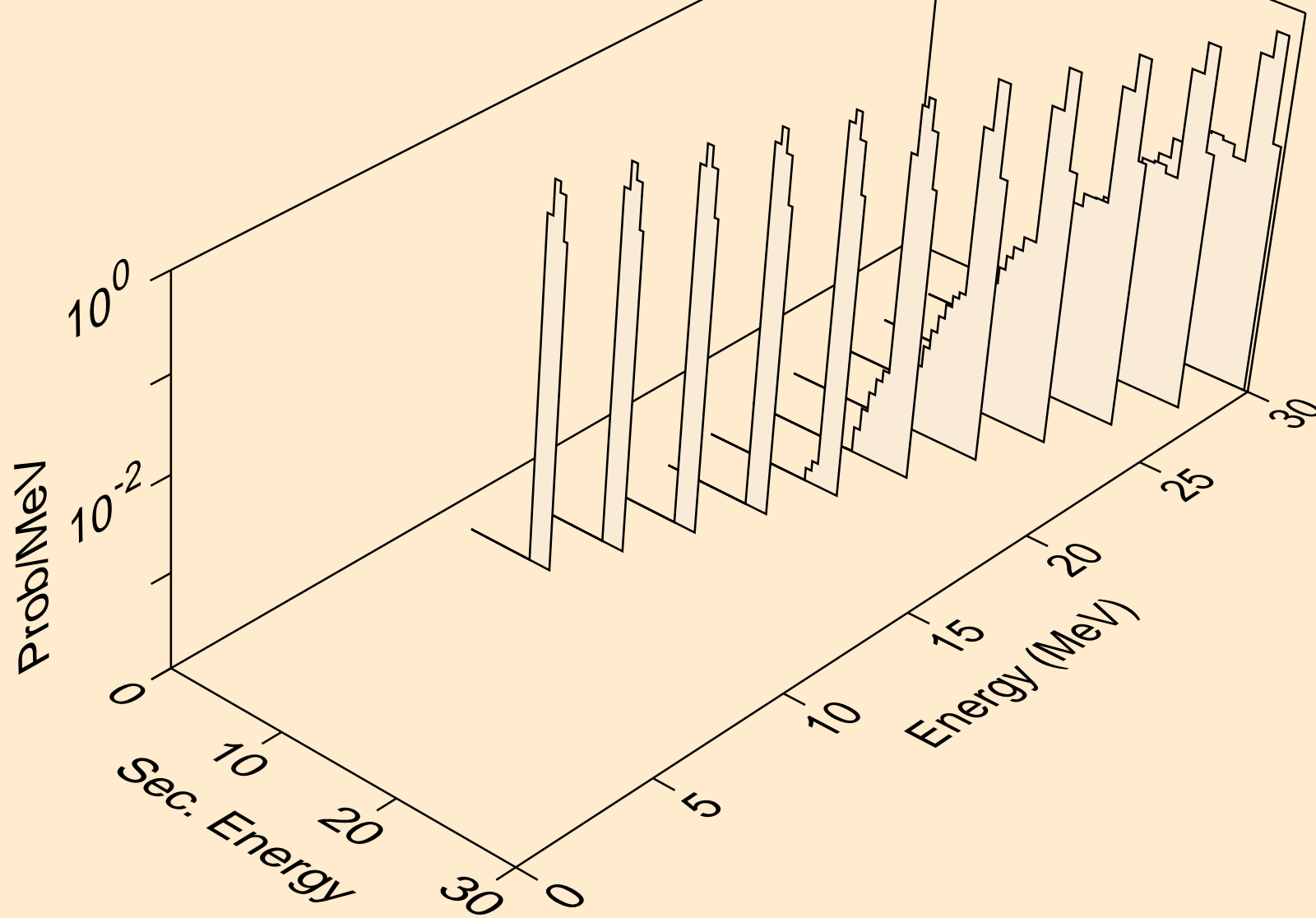
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
He-3 emission for (s,x)



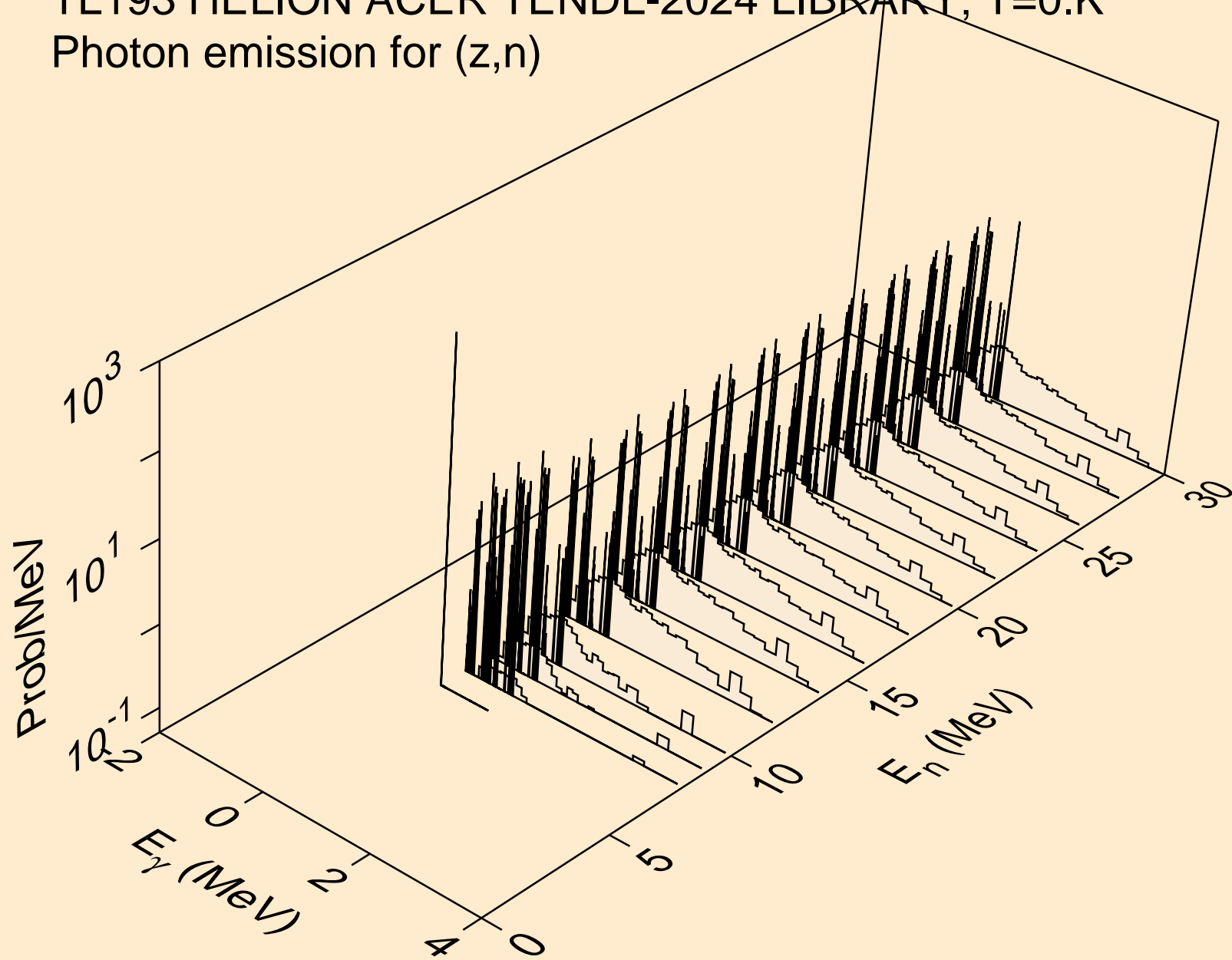
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
He-3 emission for (s,n\*)he3



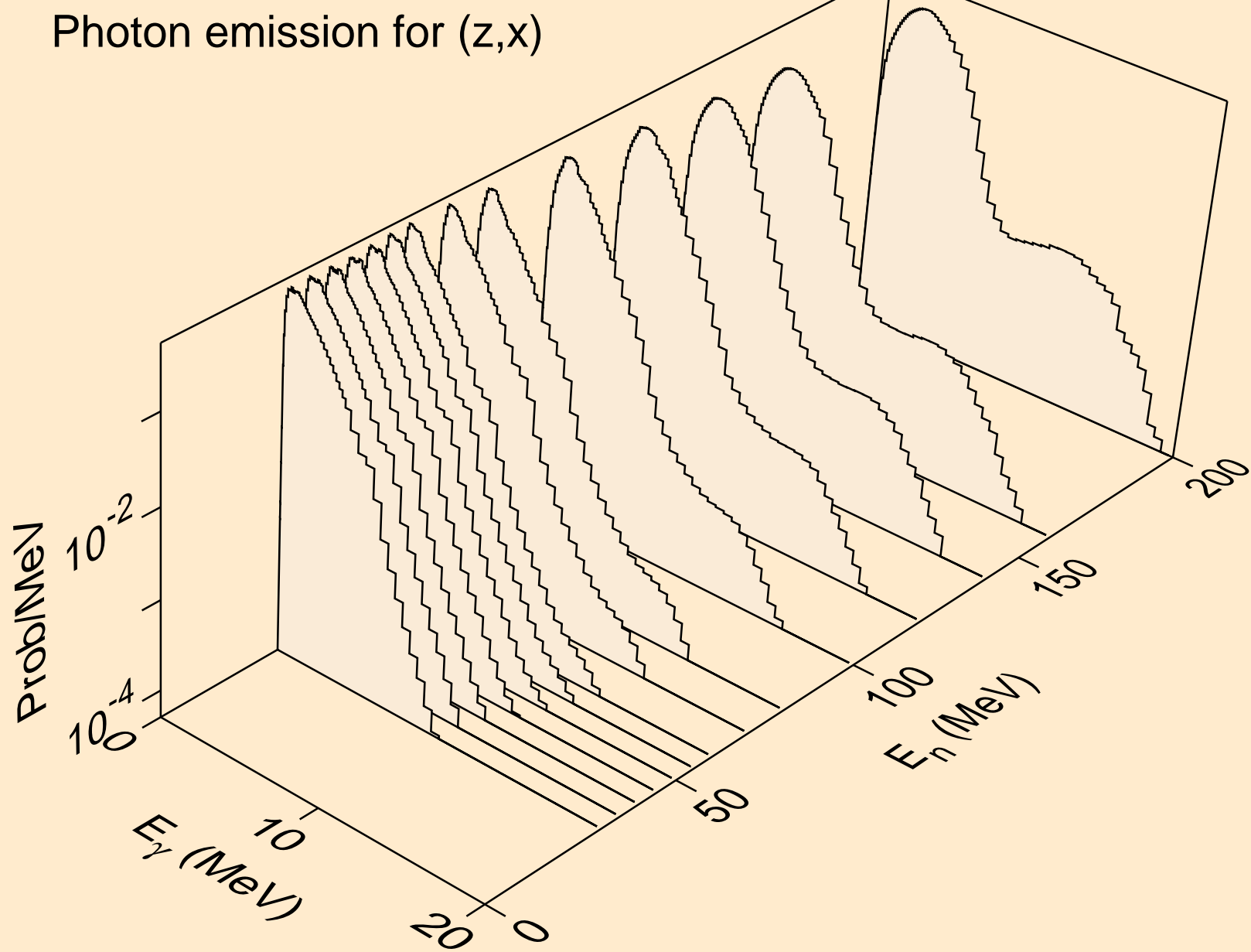
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
He-3 emission for inelastic



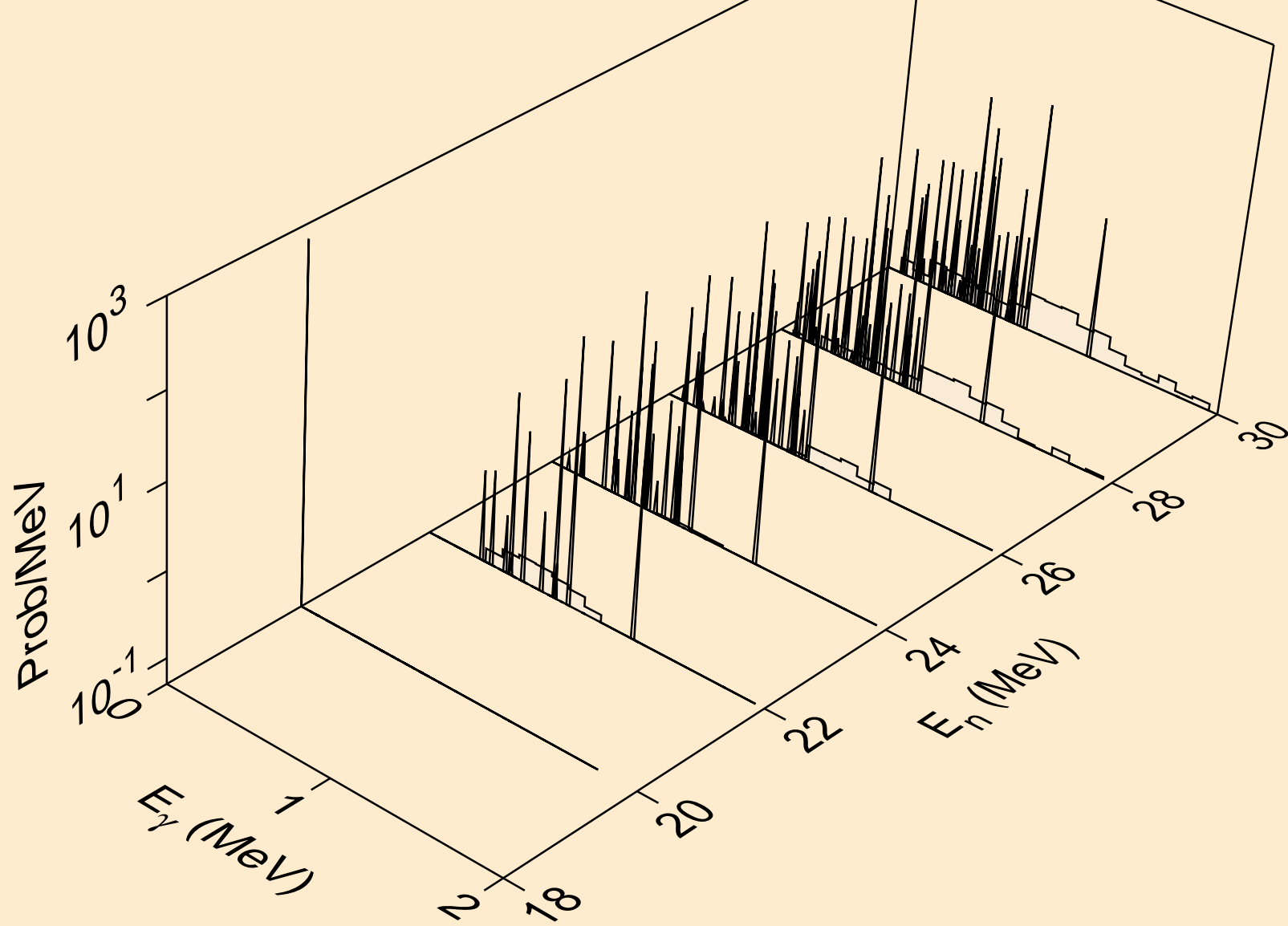
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (z,n)



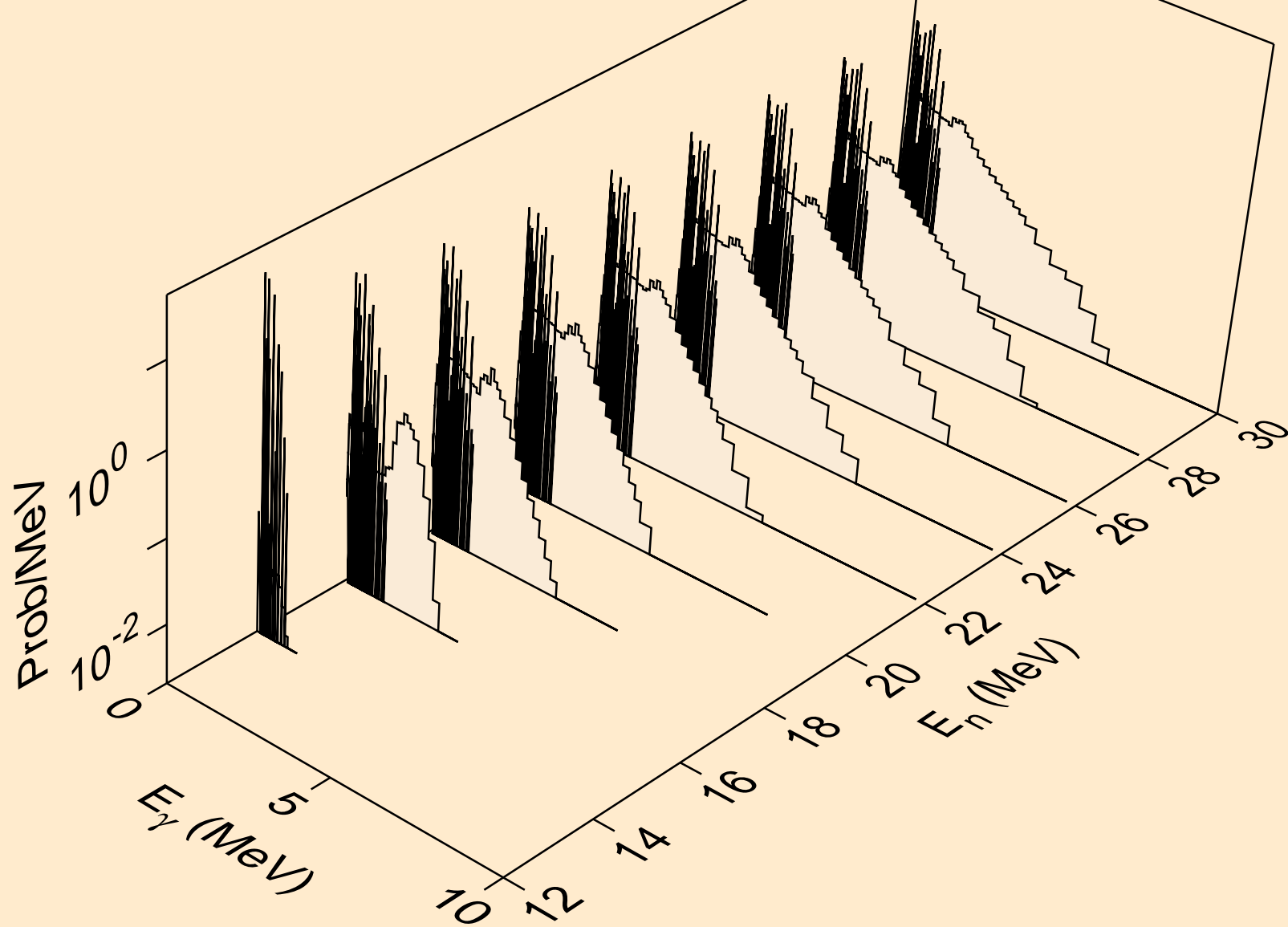
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (z,x)



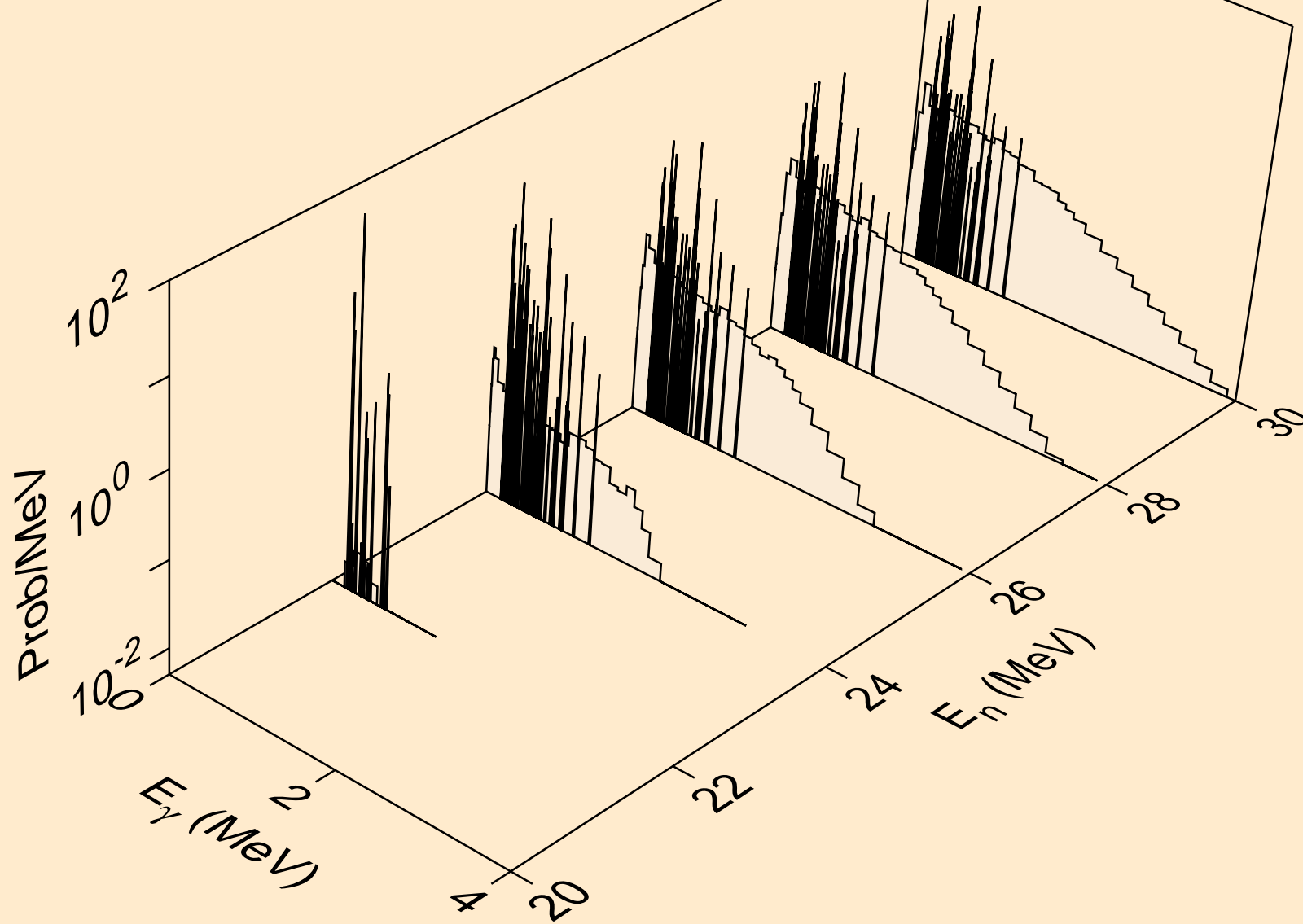
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2nd)



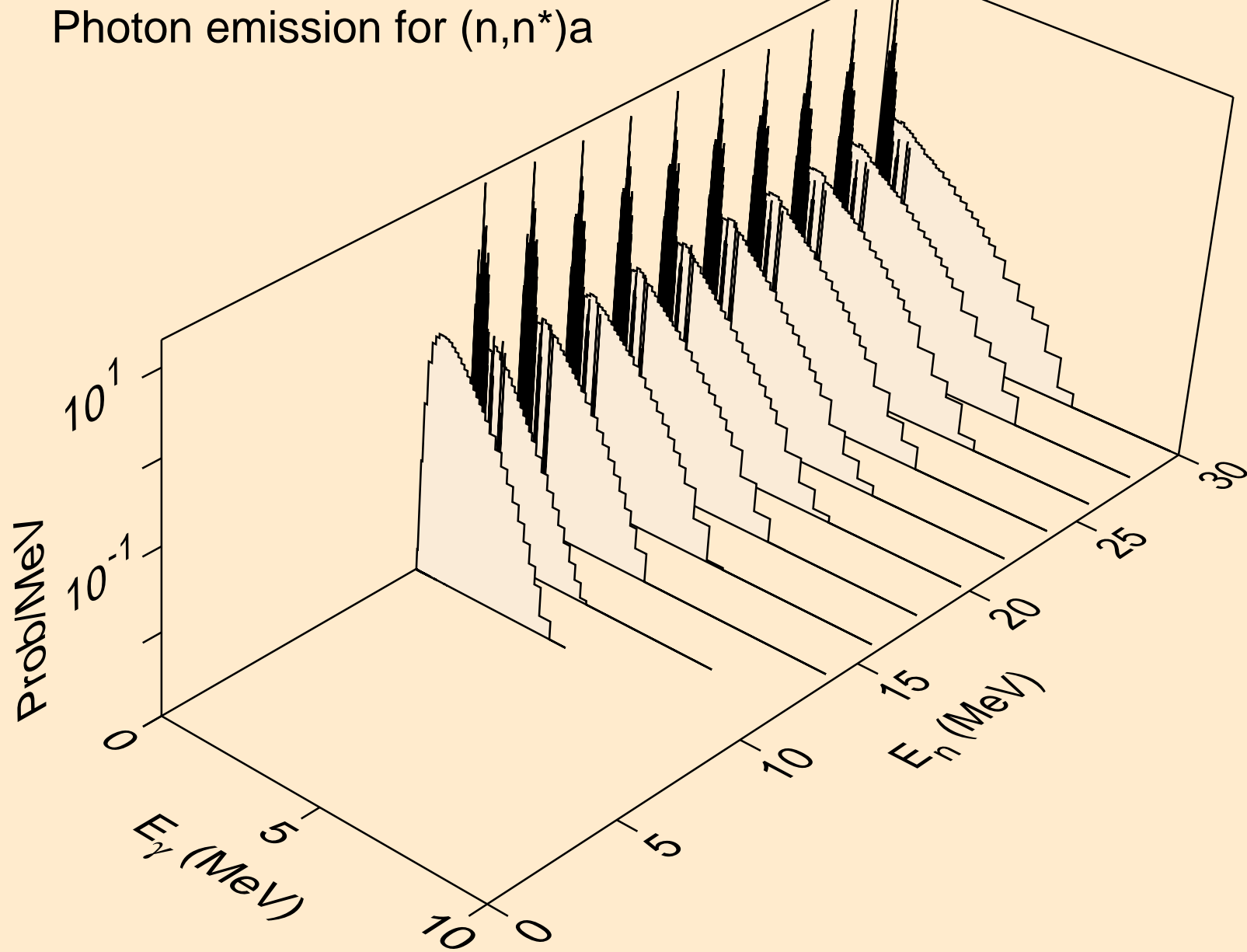
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)



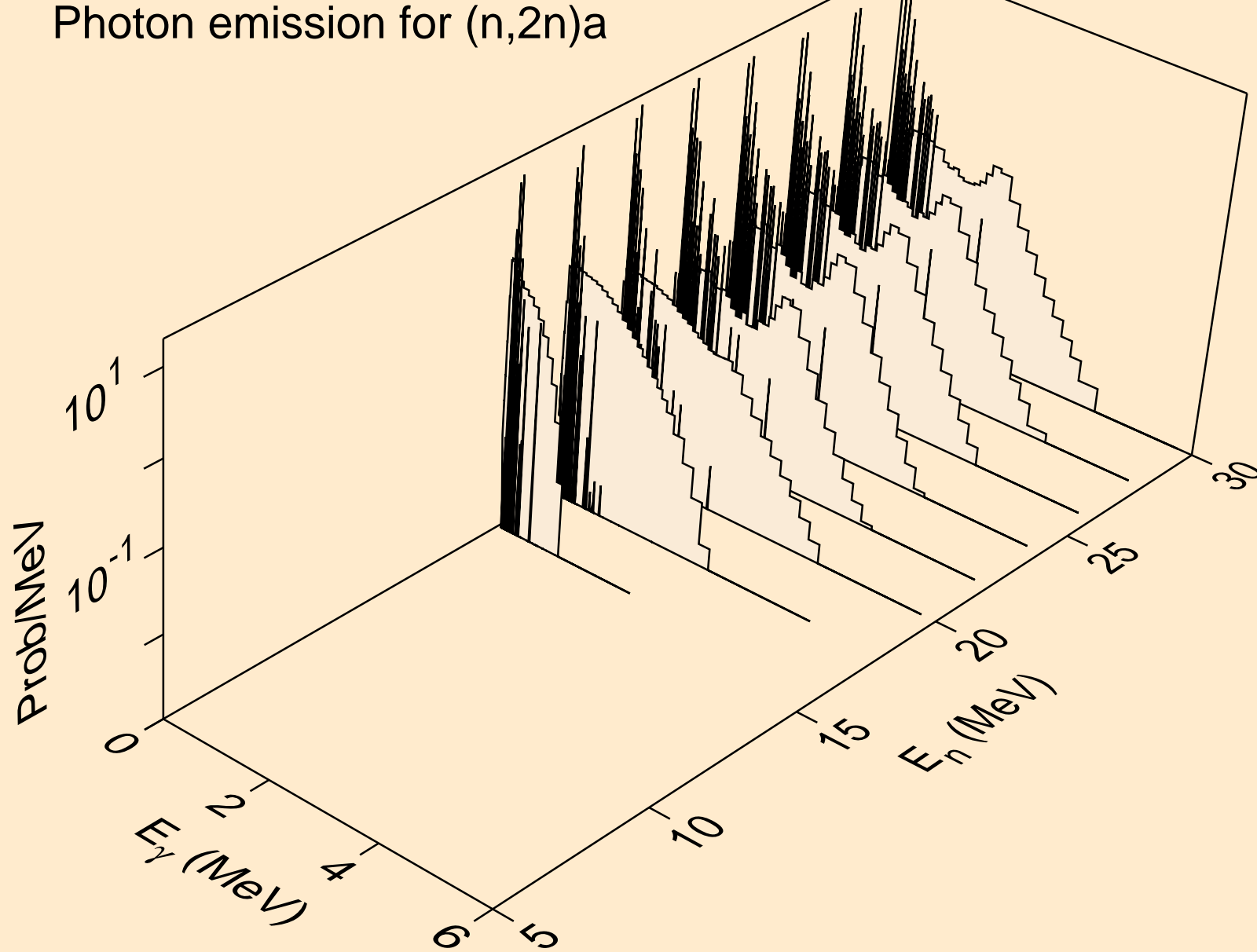
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)



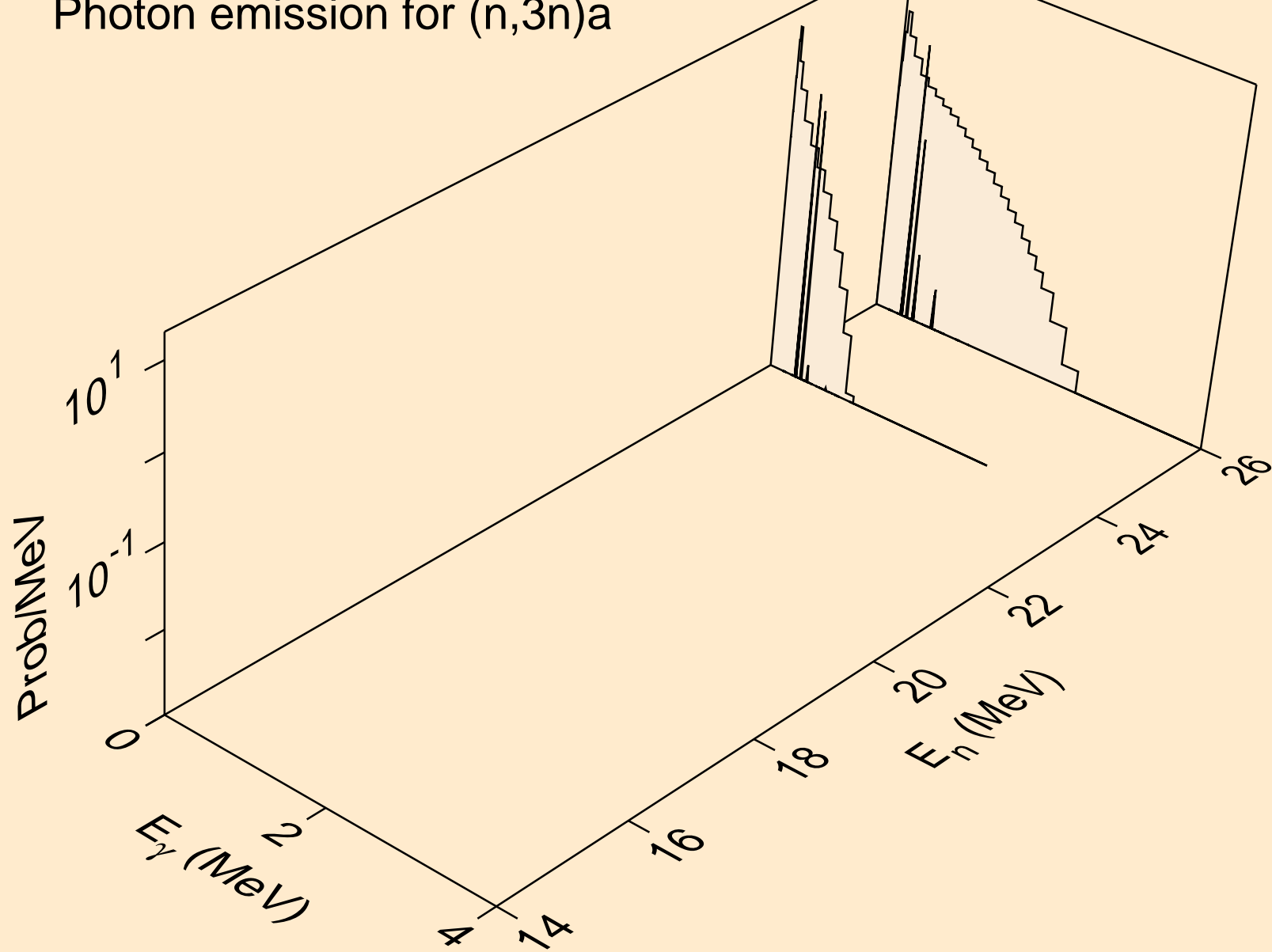
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



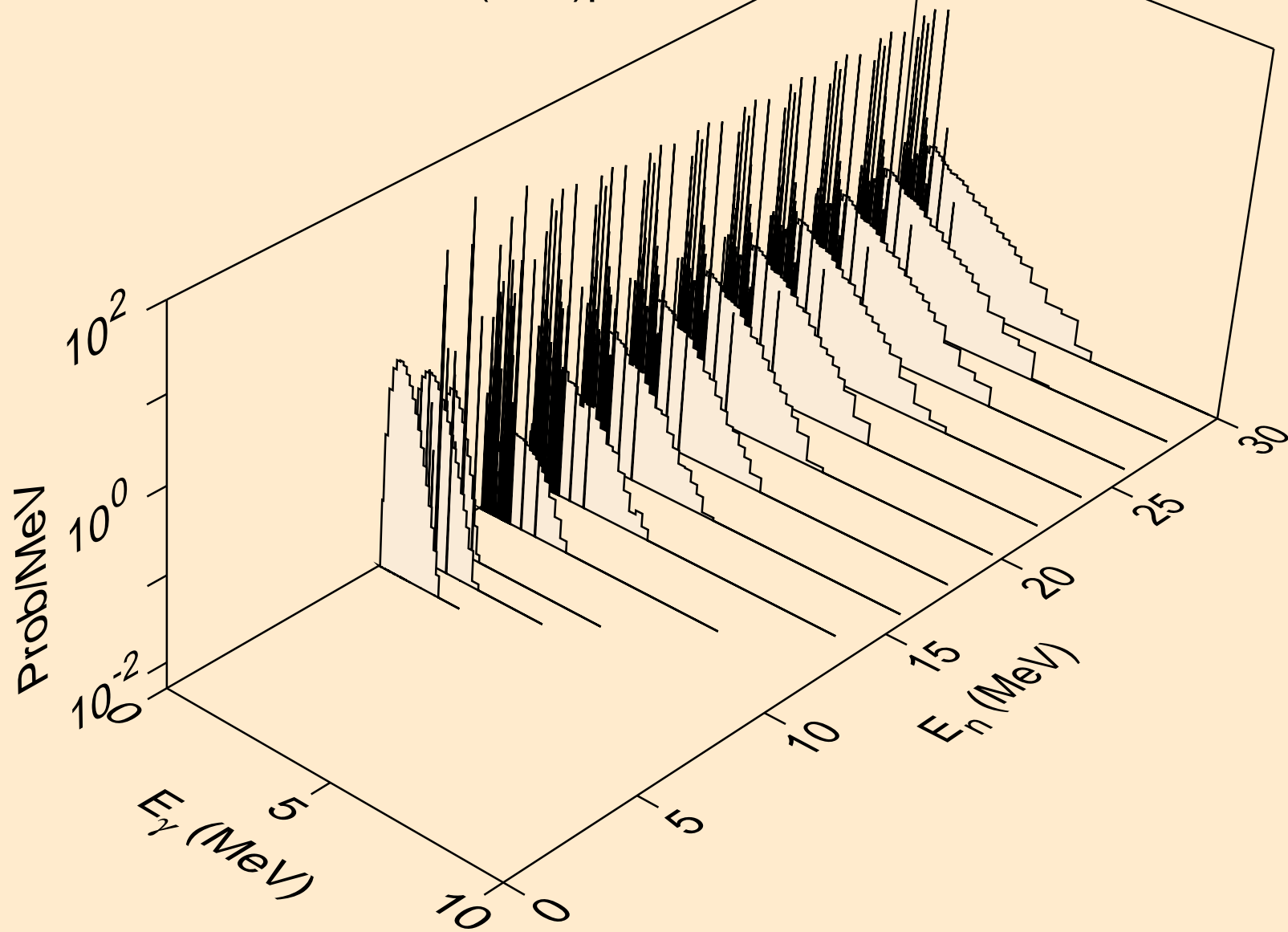
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2n)a



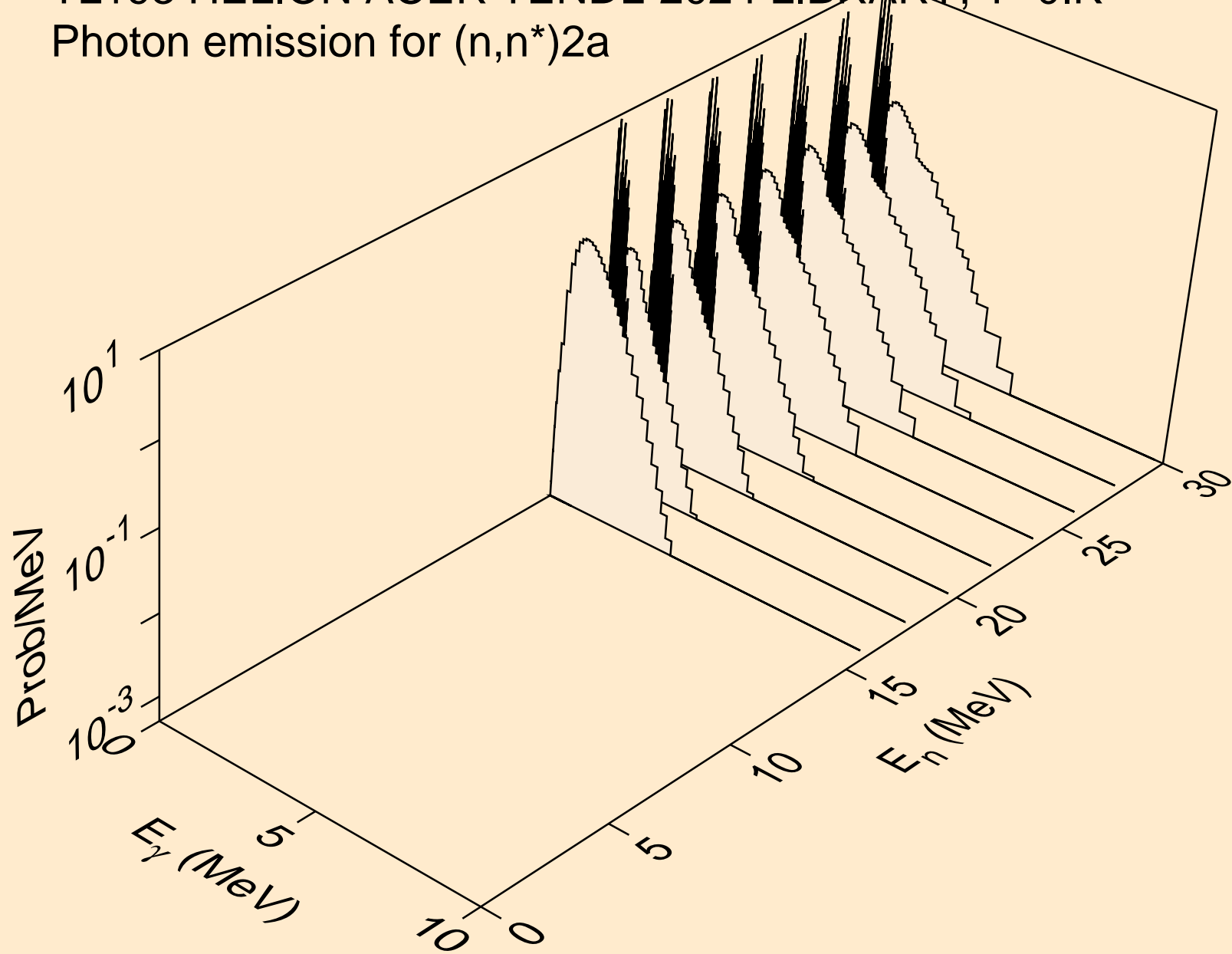
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3n)a



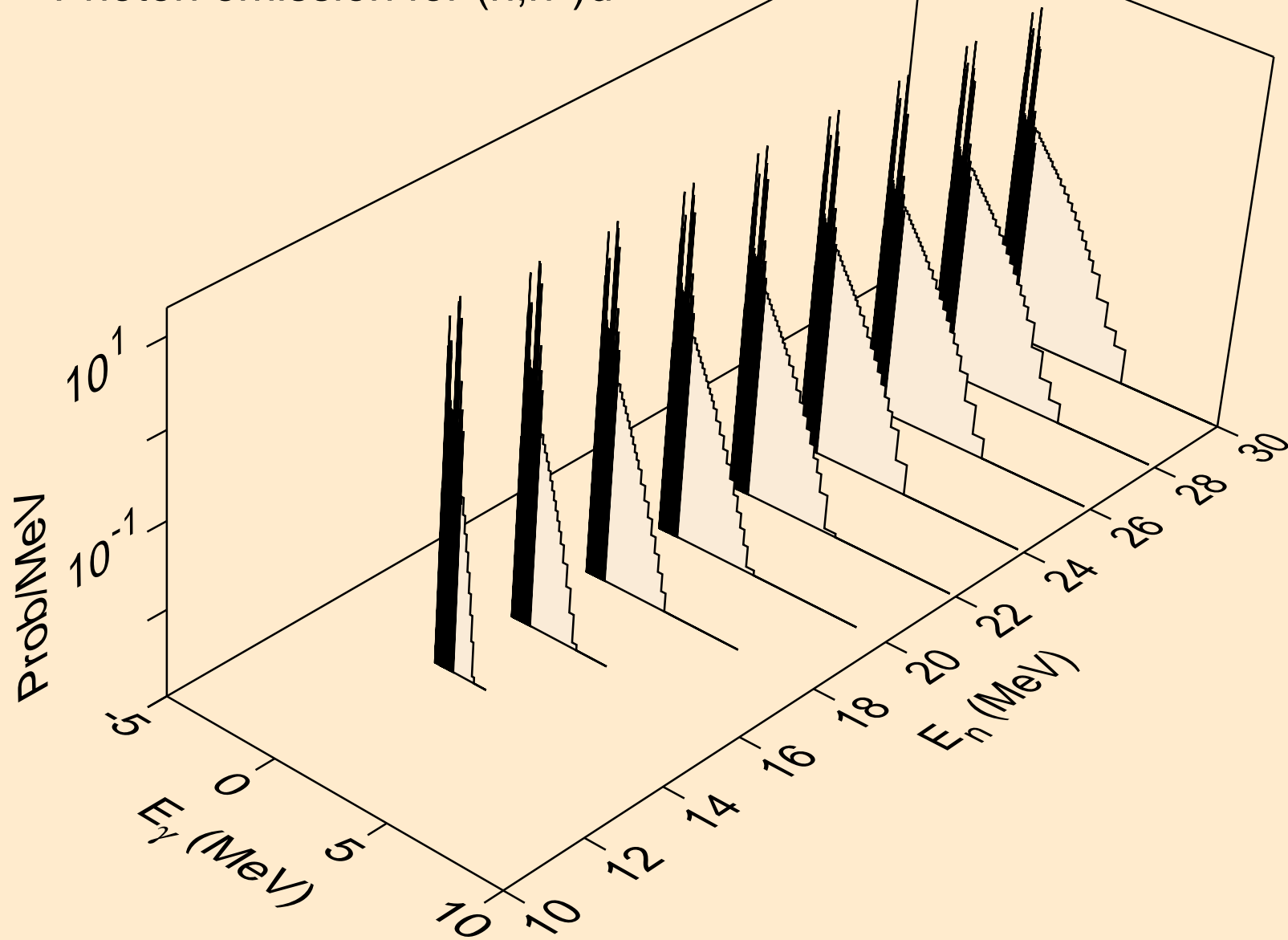
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



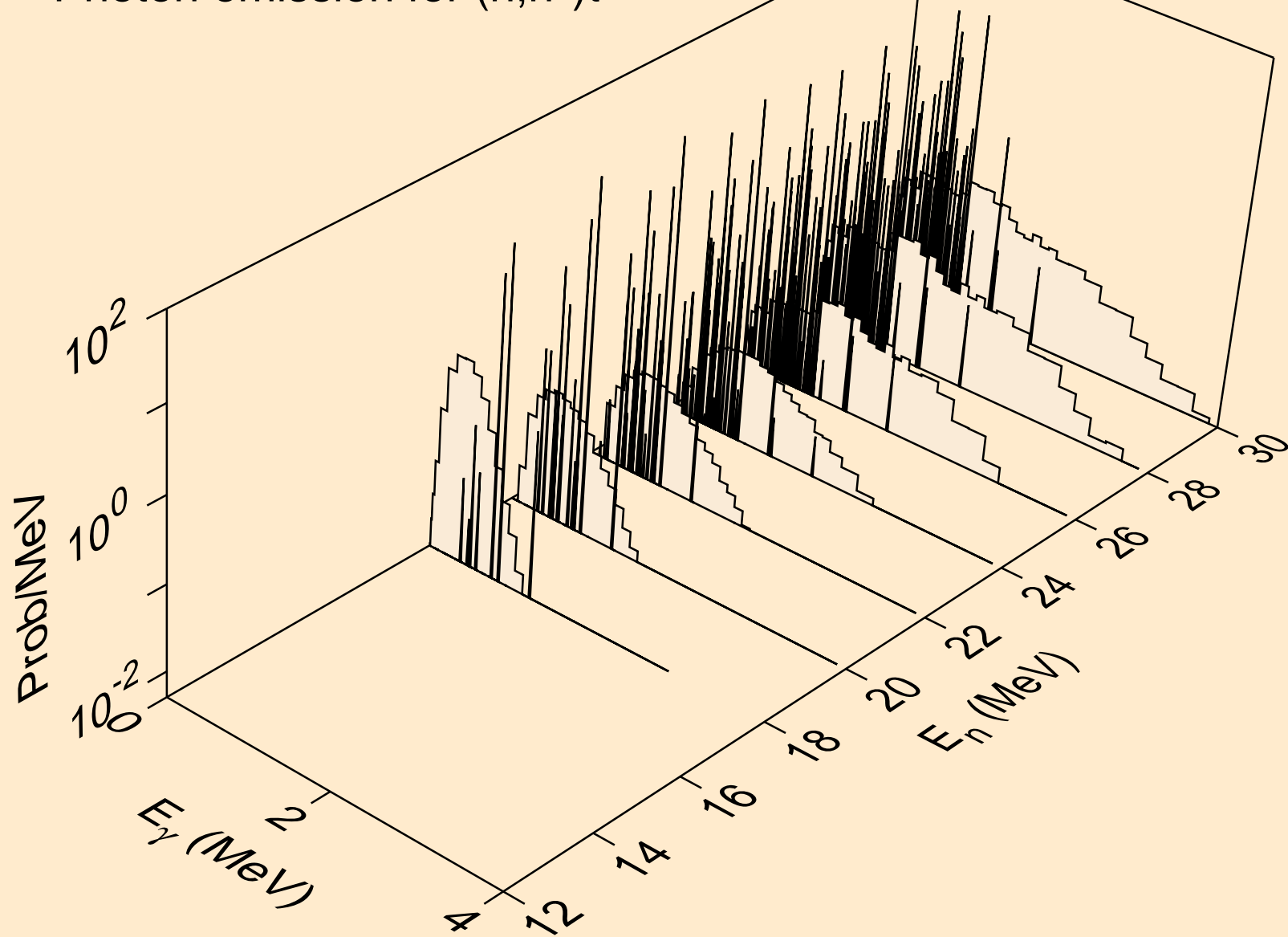
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



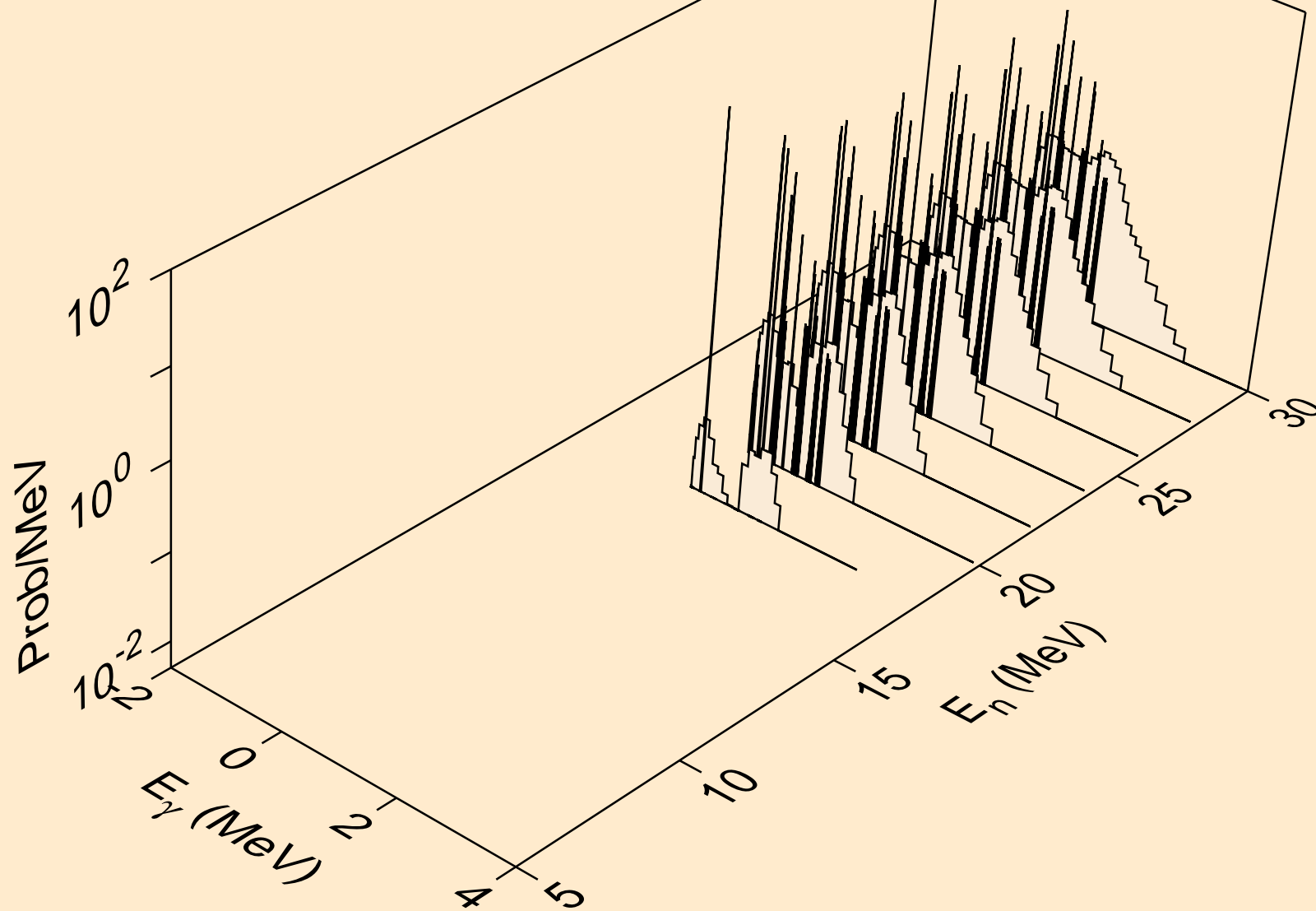
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



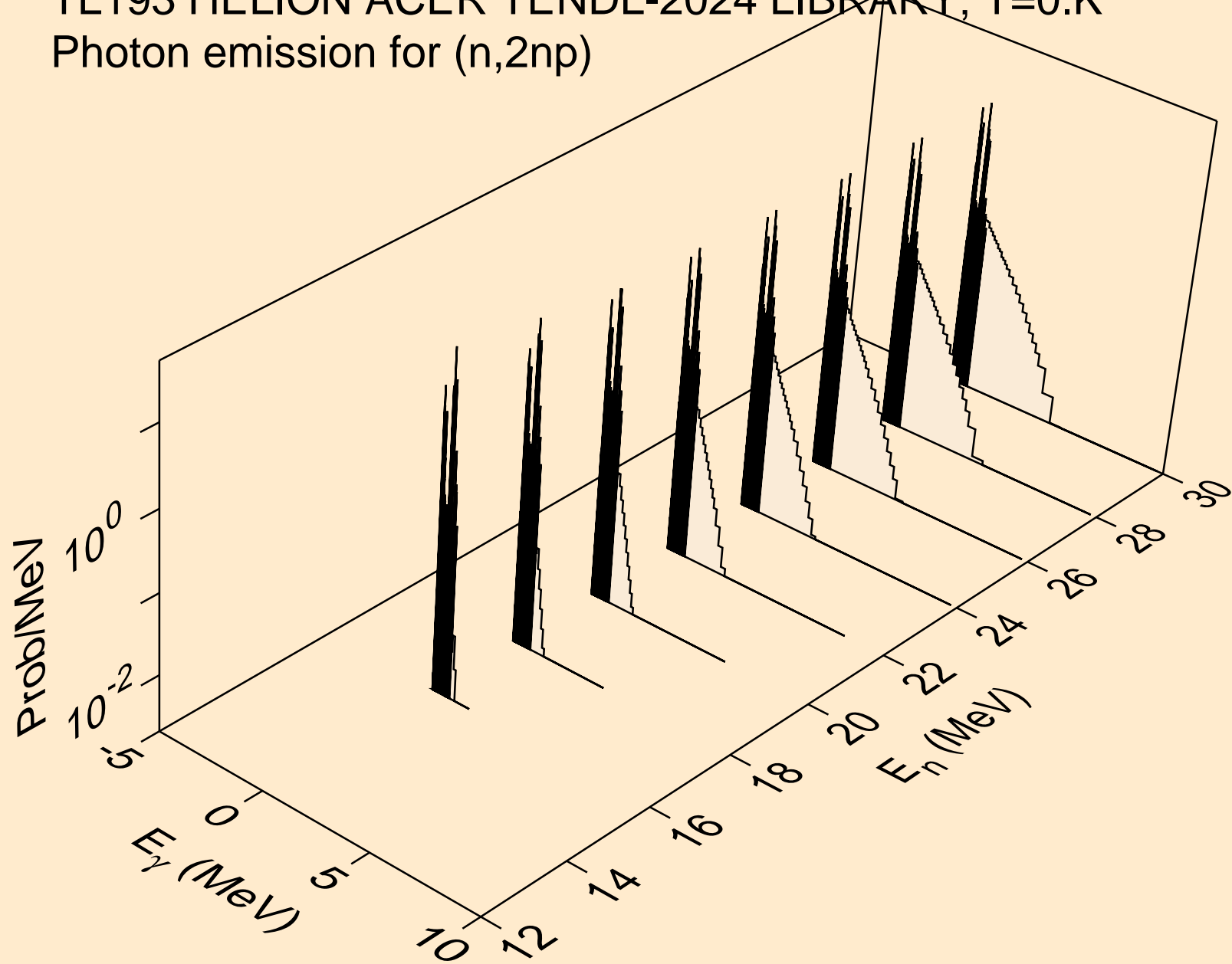
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



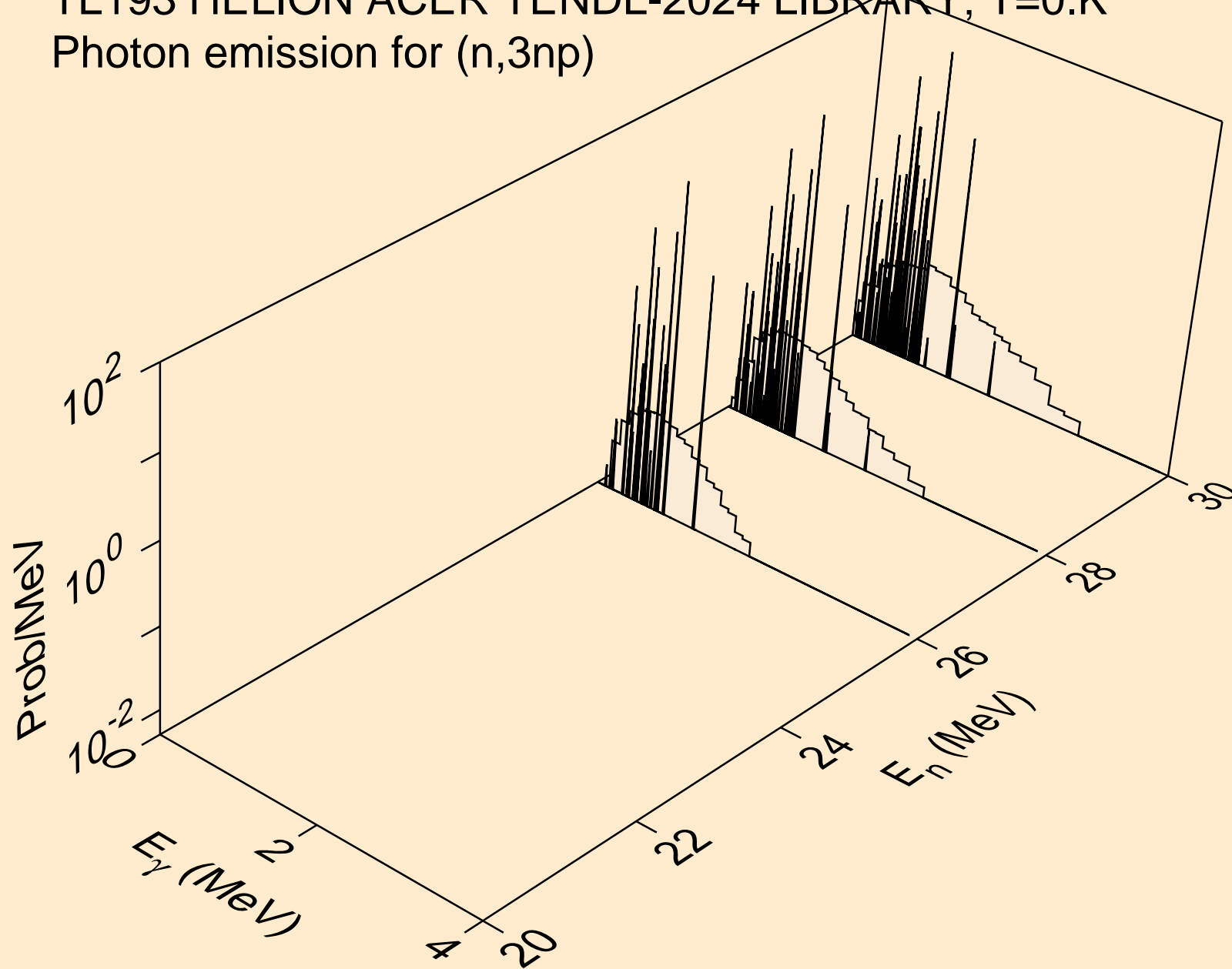
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



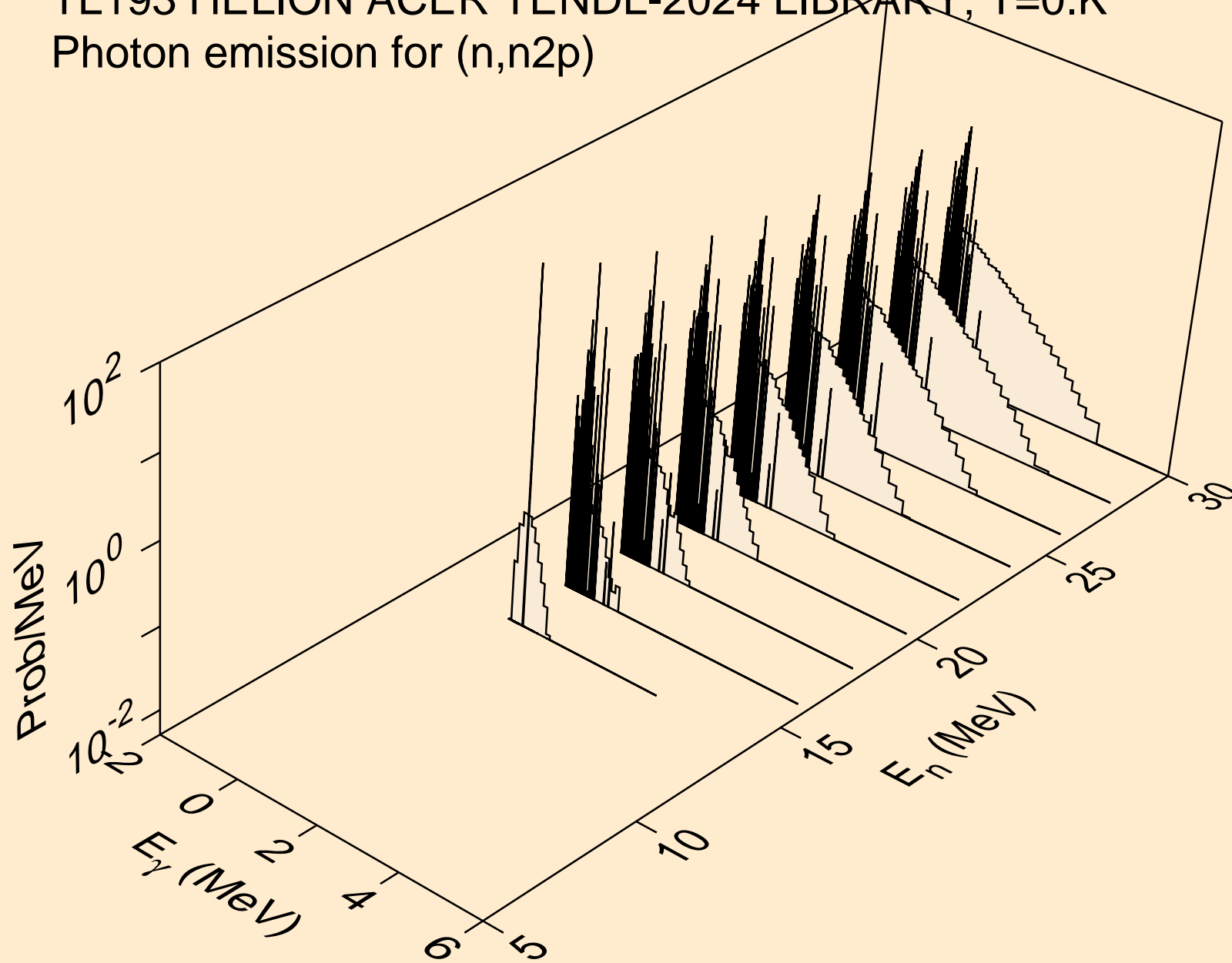
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2np)



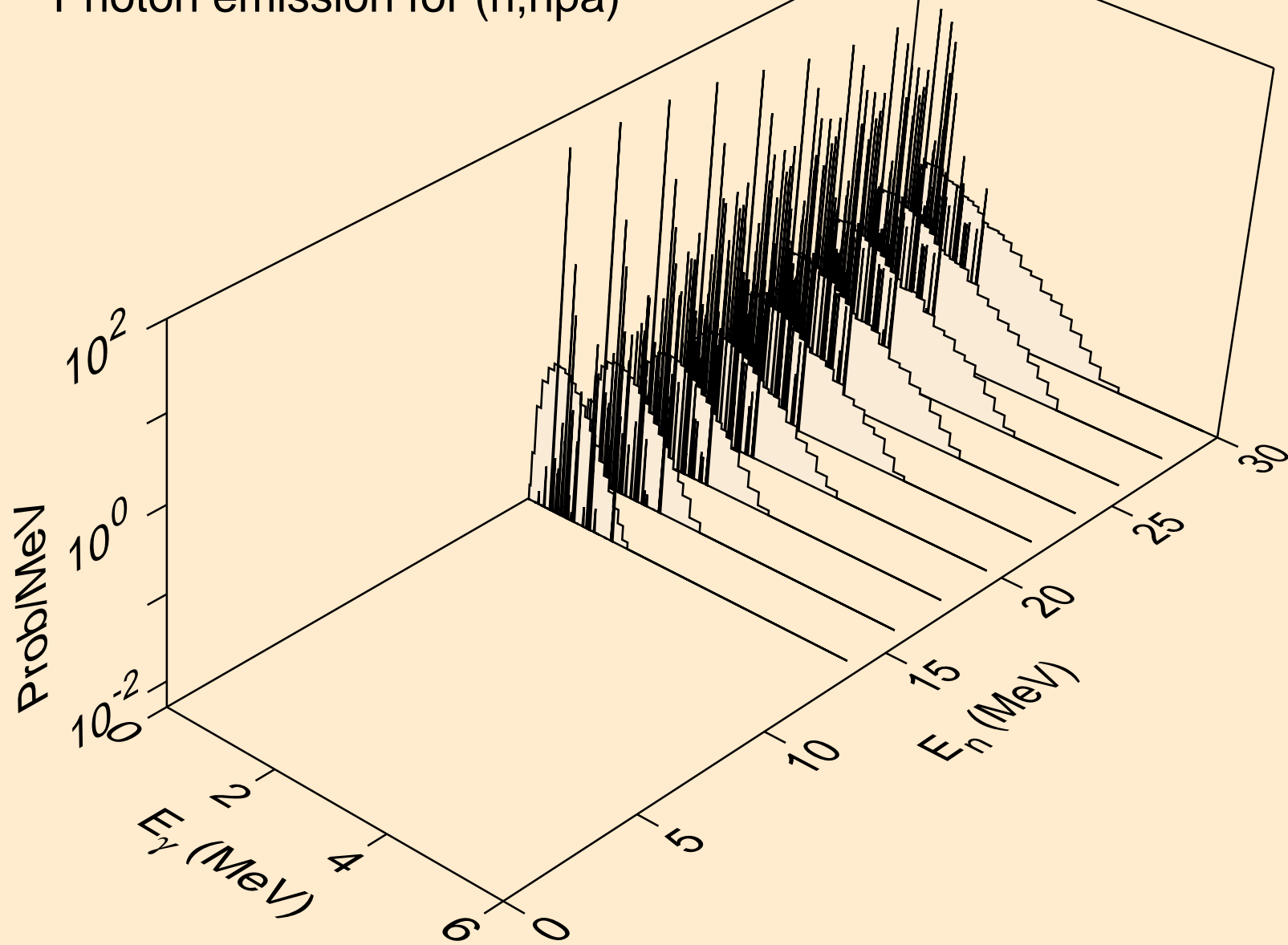
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,3np)



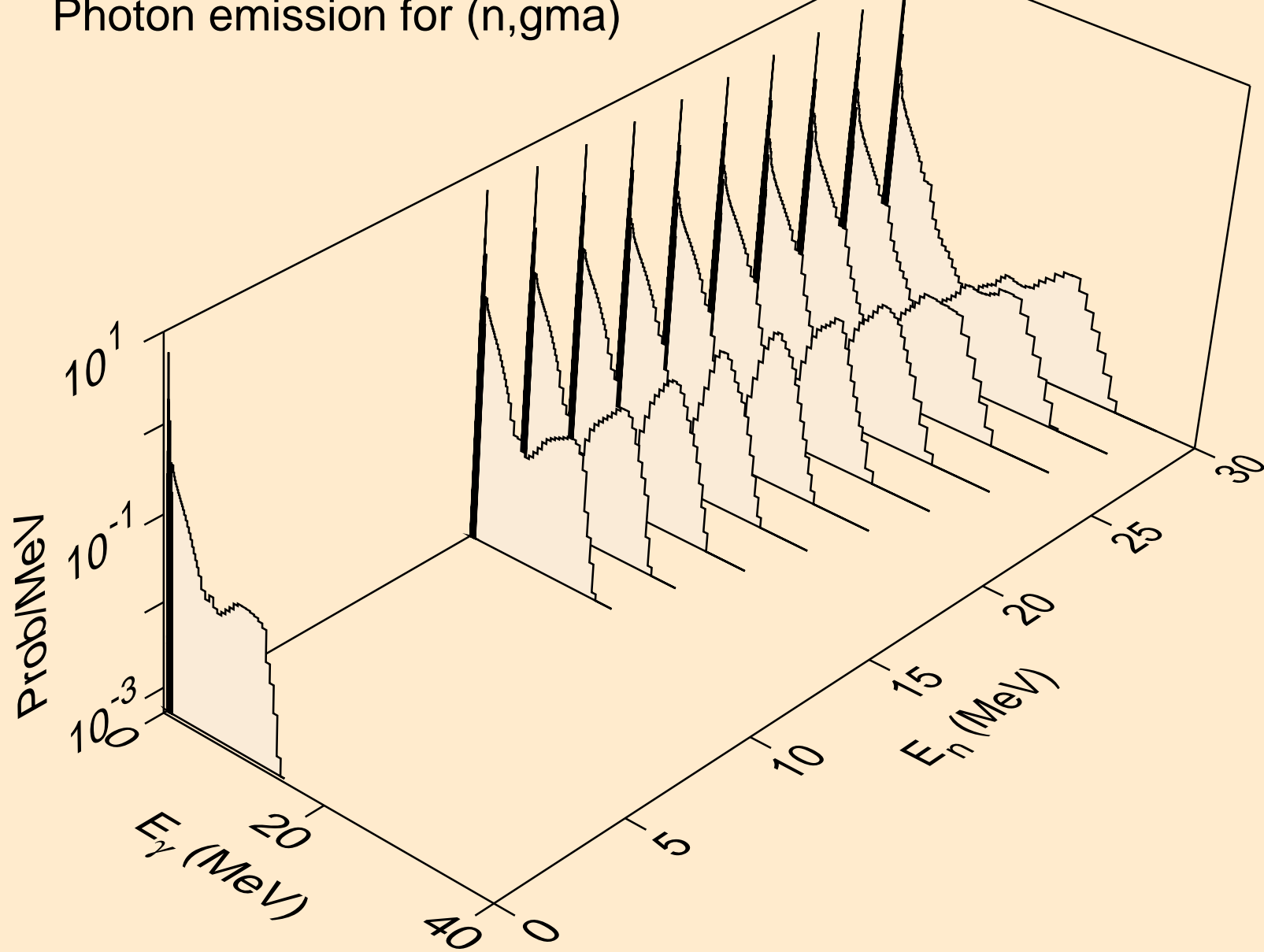
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,n2p)



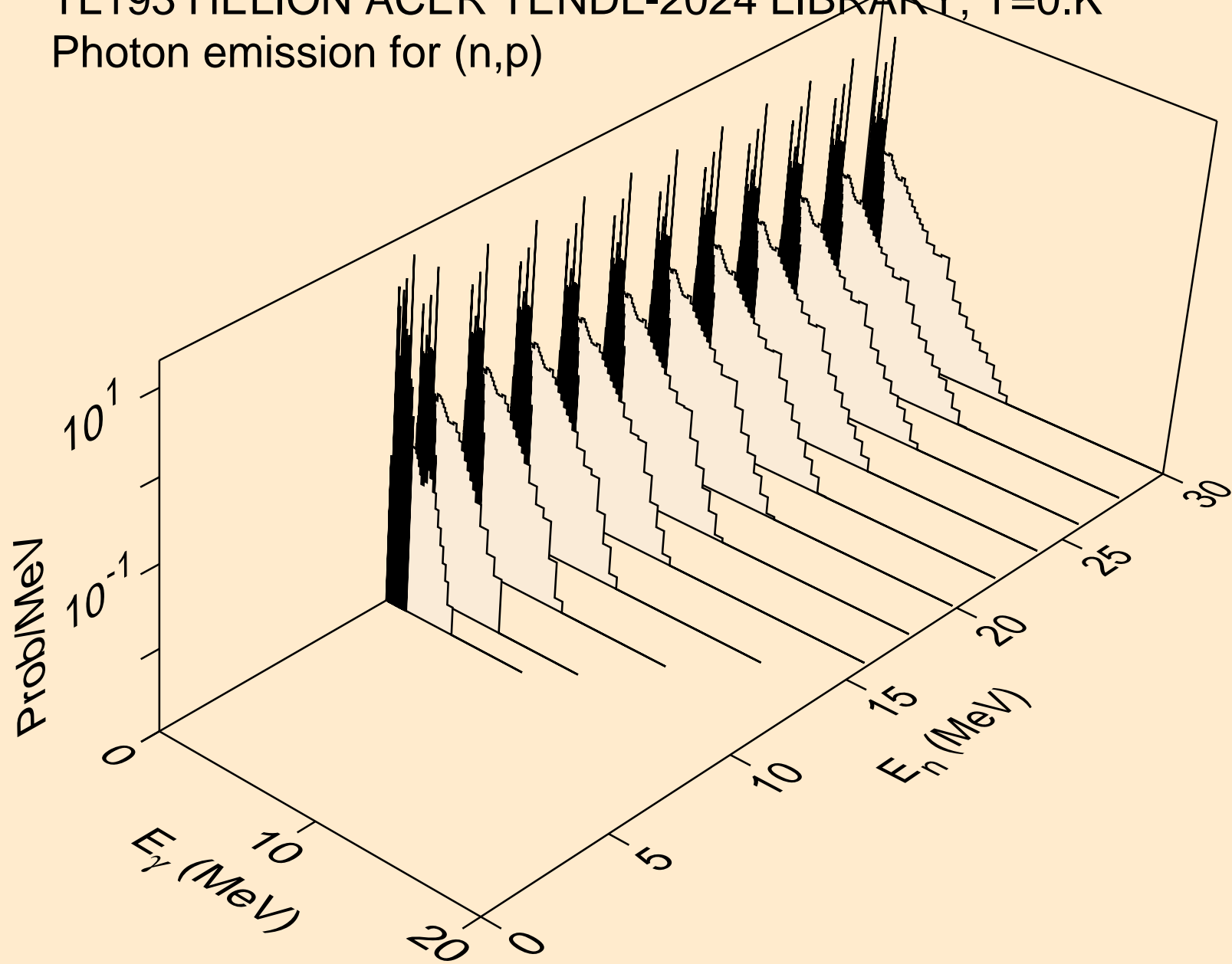
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,npa)



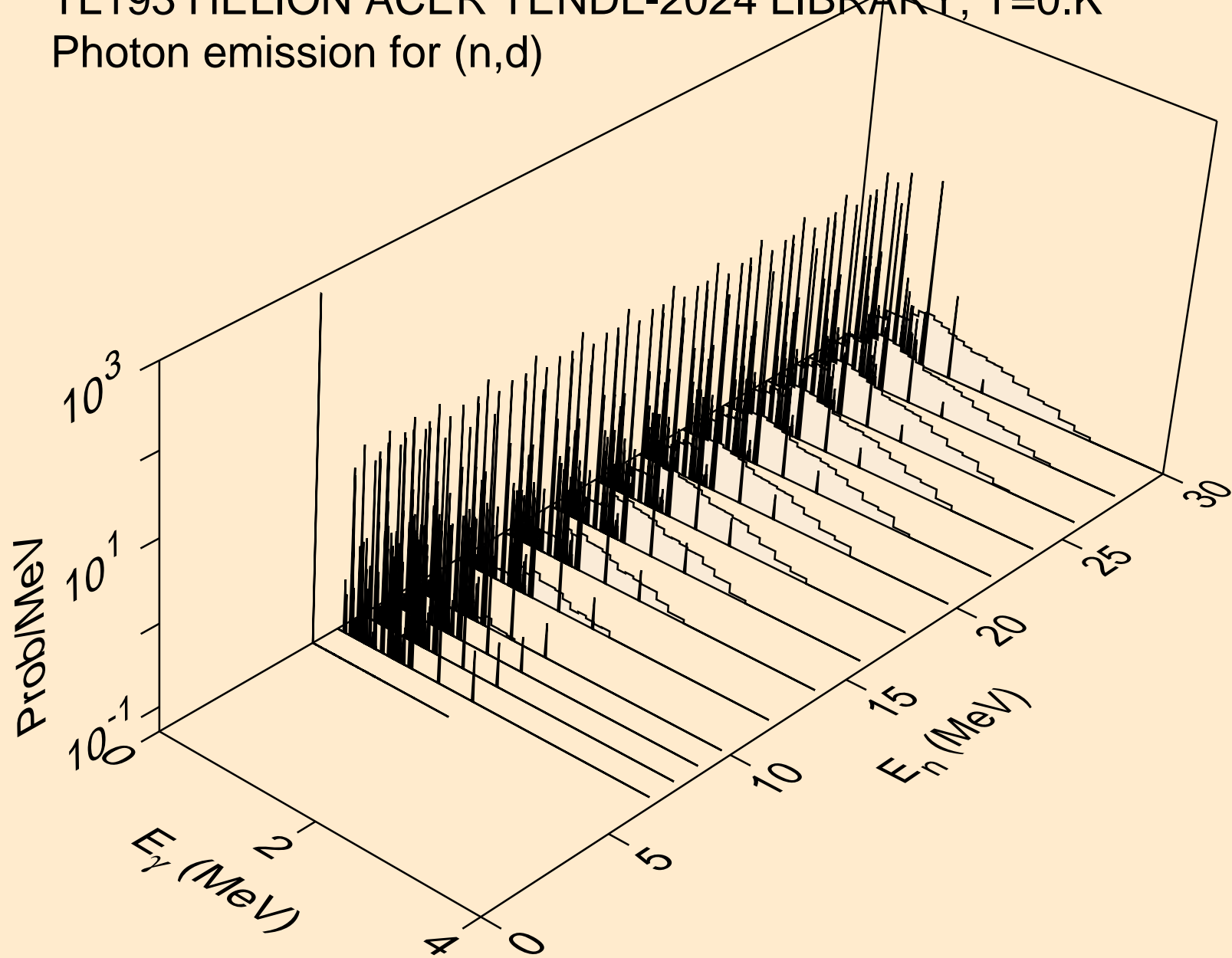
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,gma)



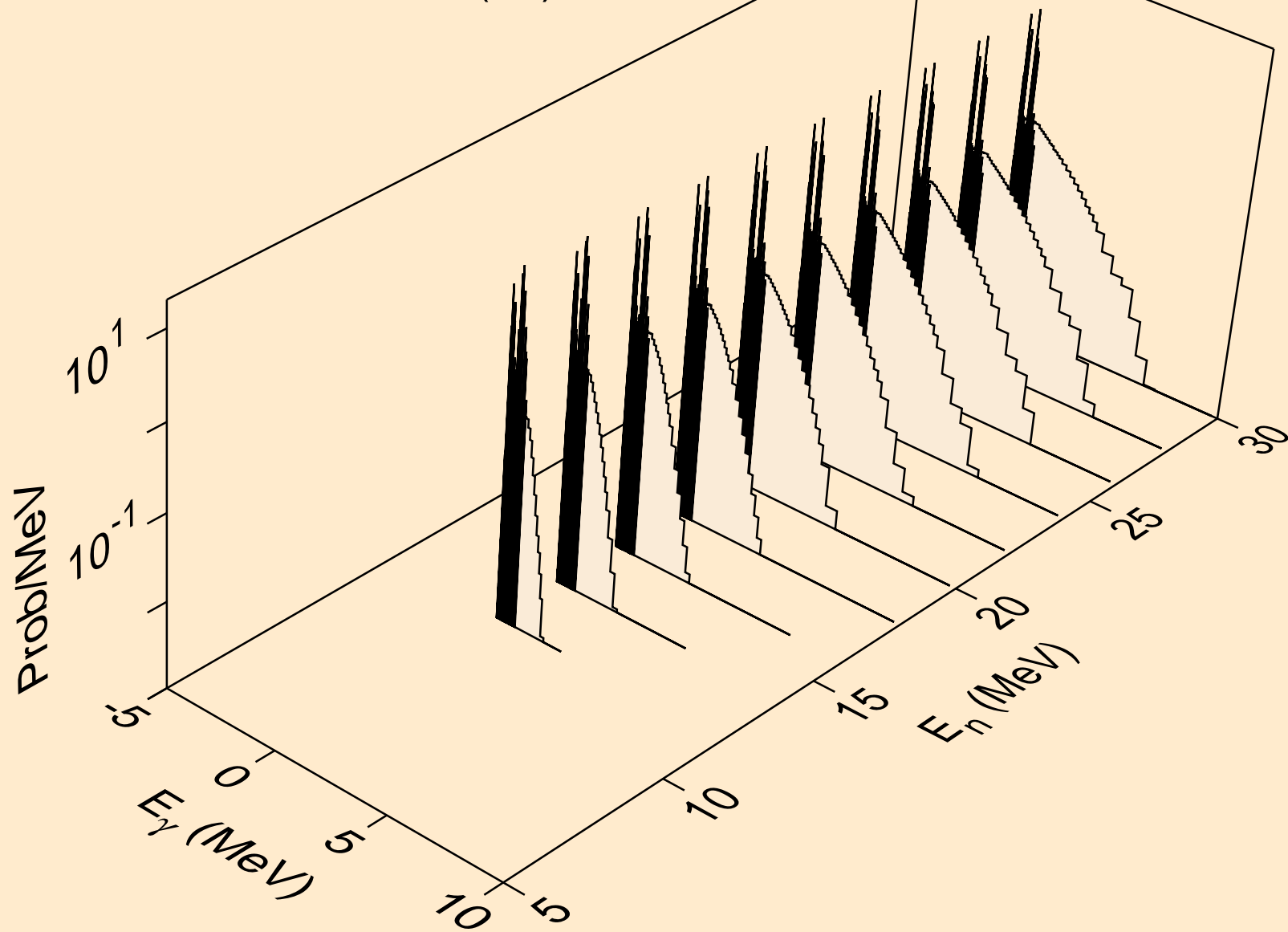
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



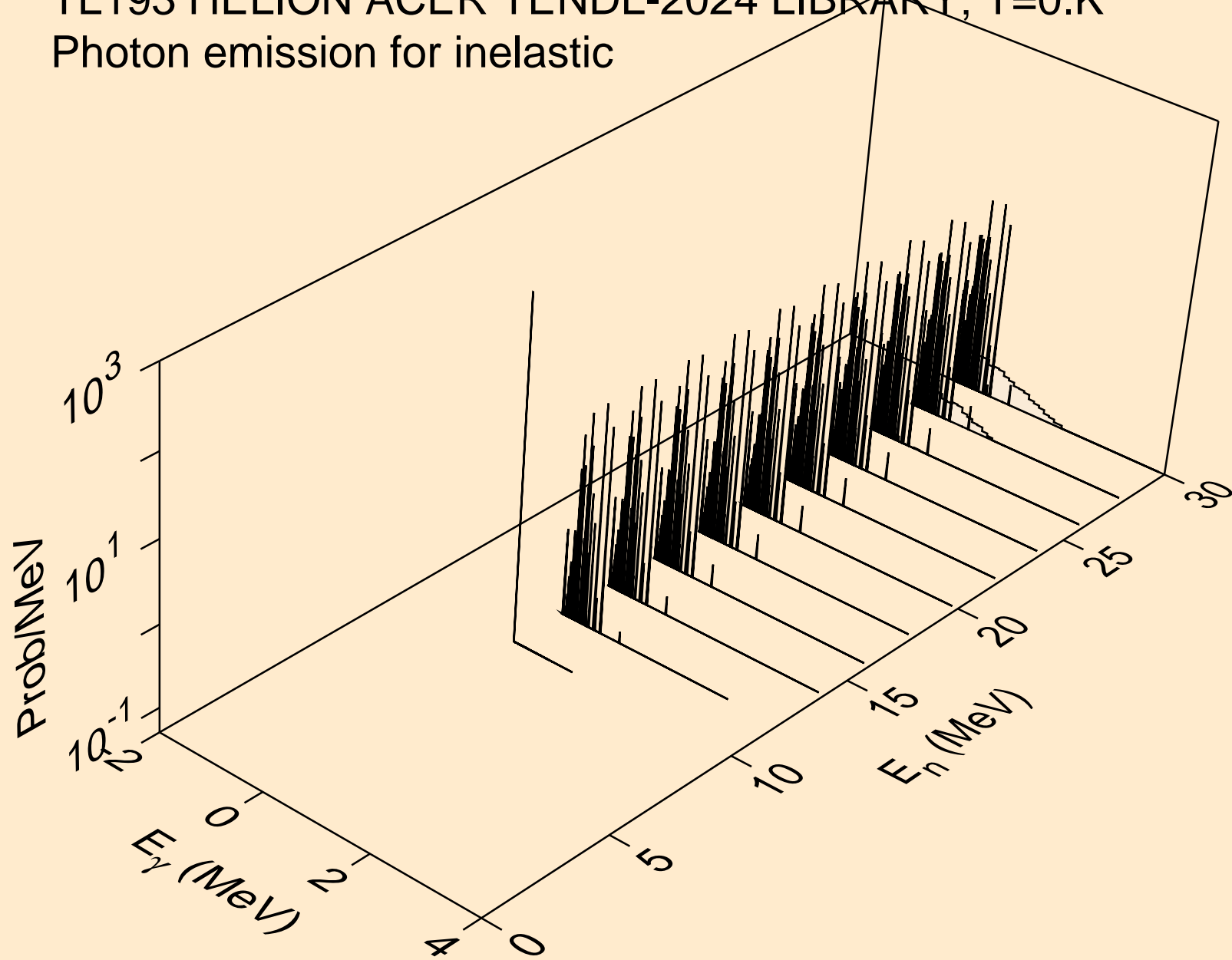
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,d)



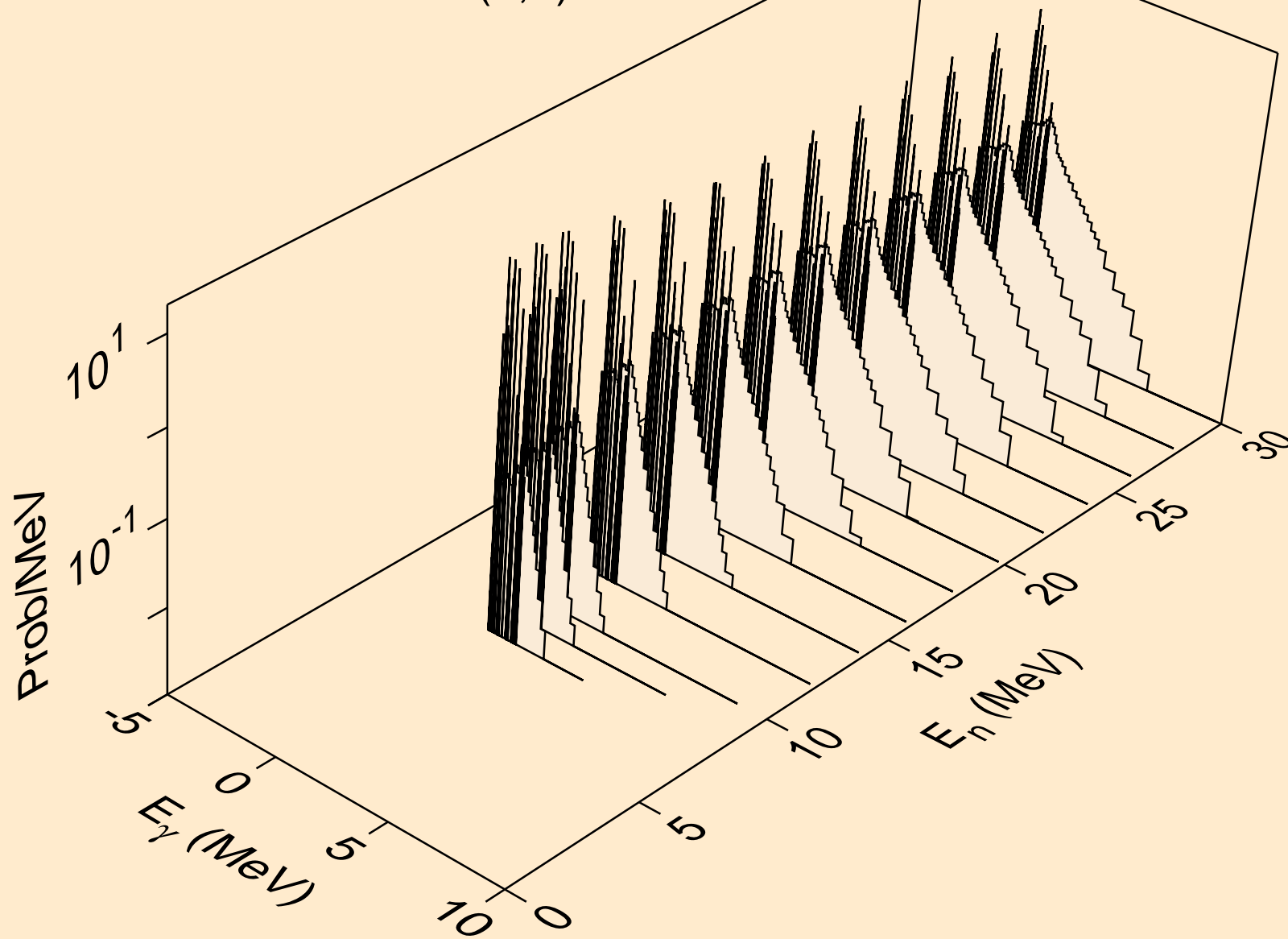
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,t)



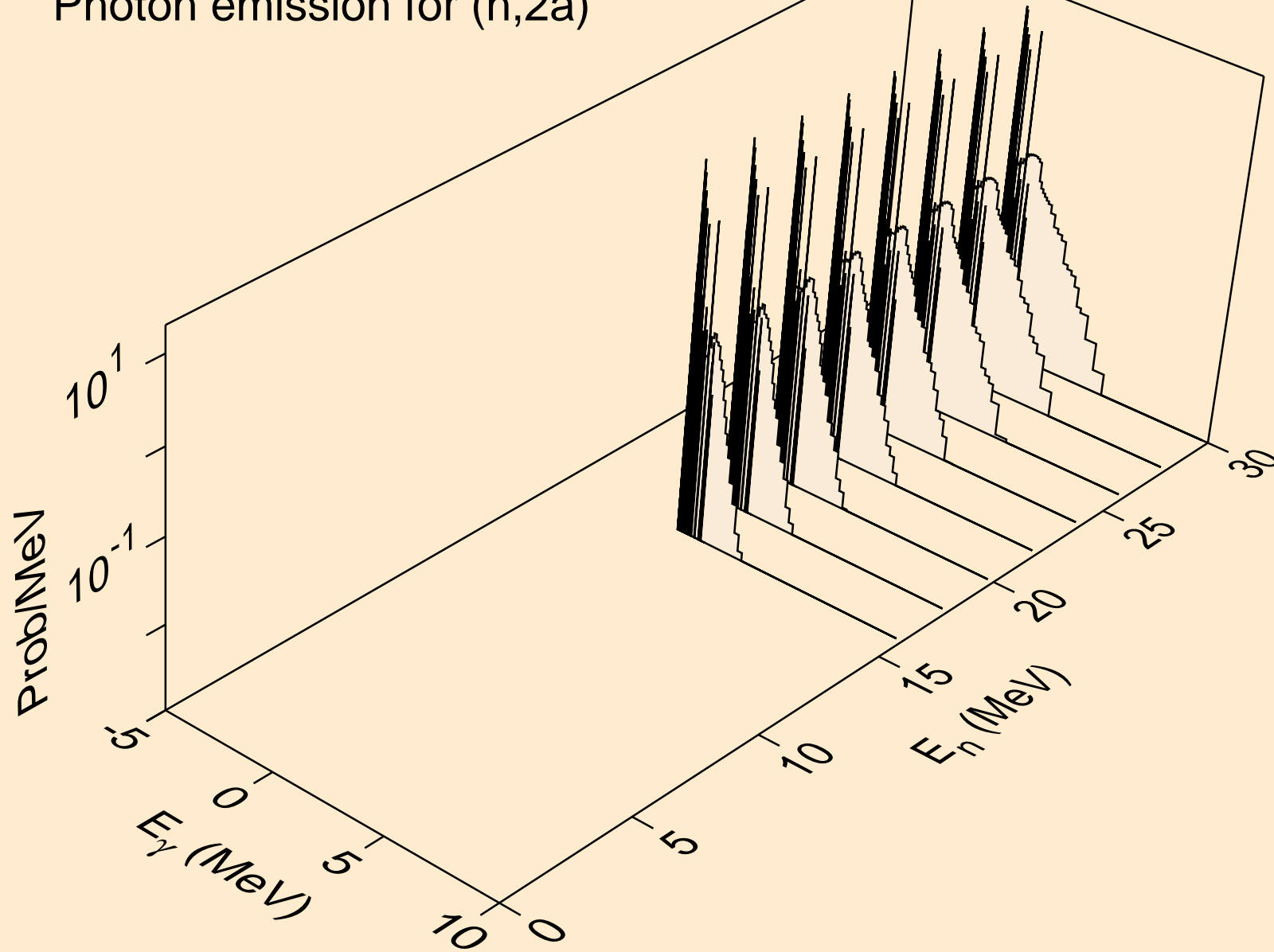
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for inelastic



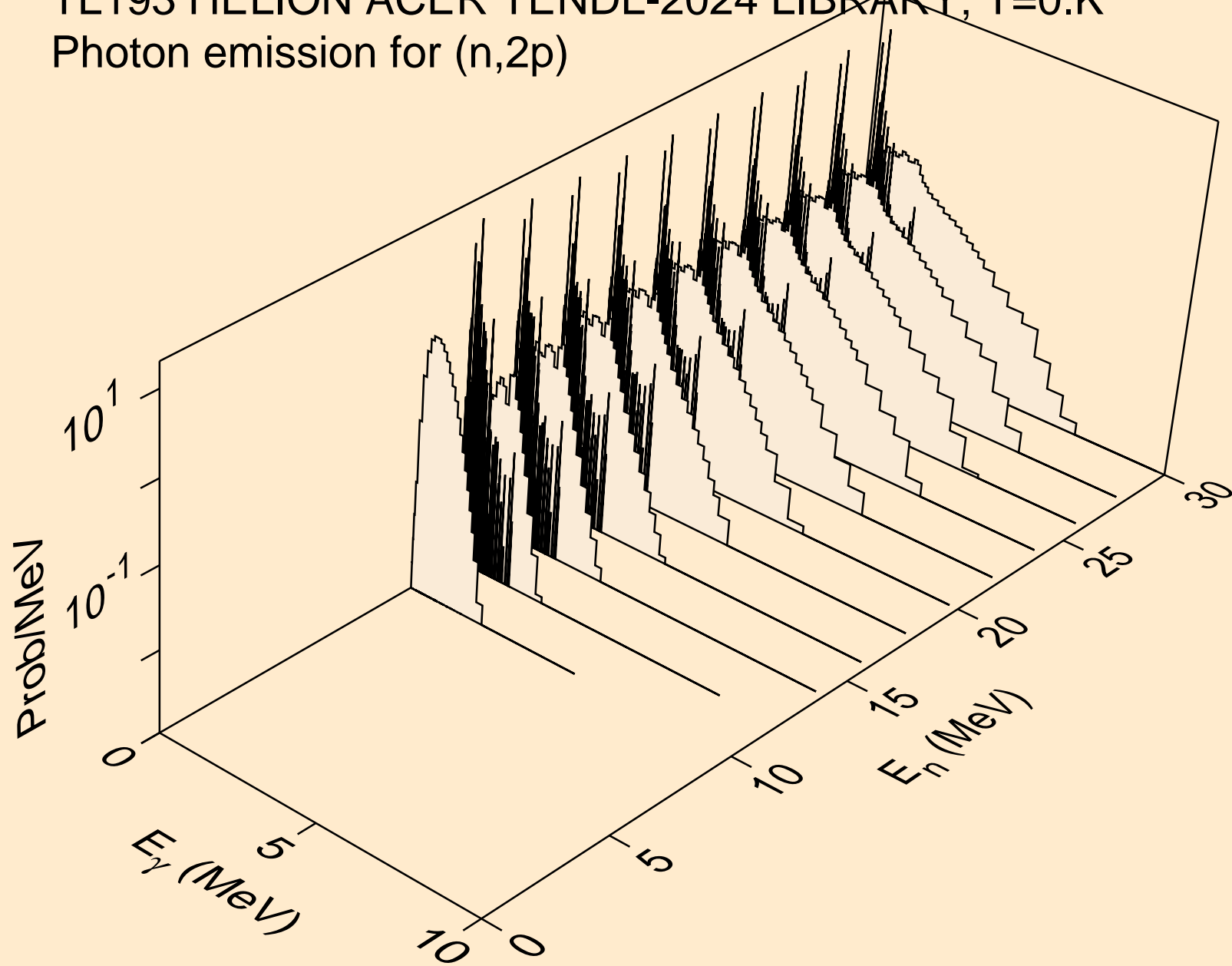
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,a)



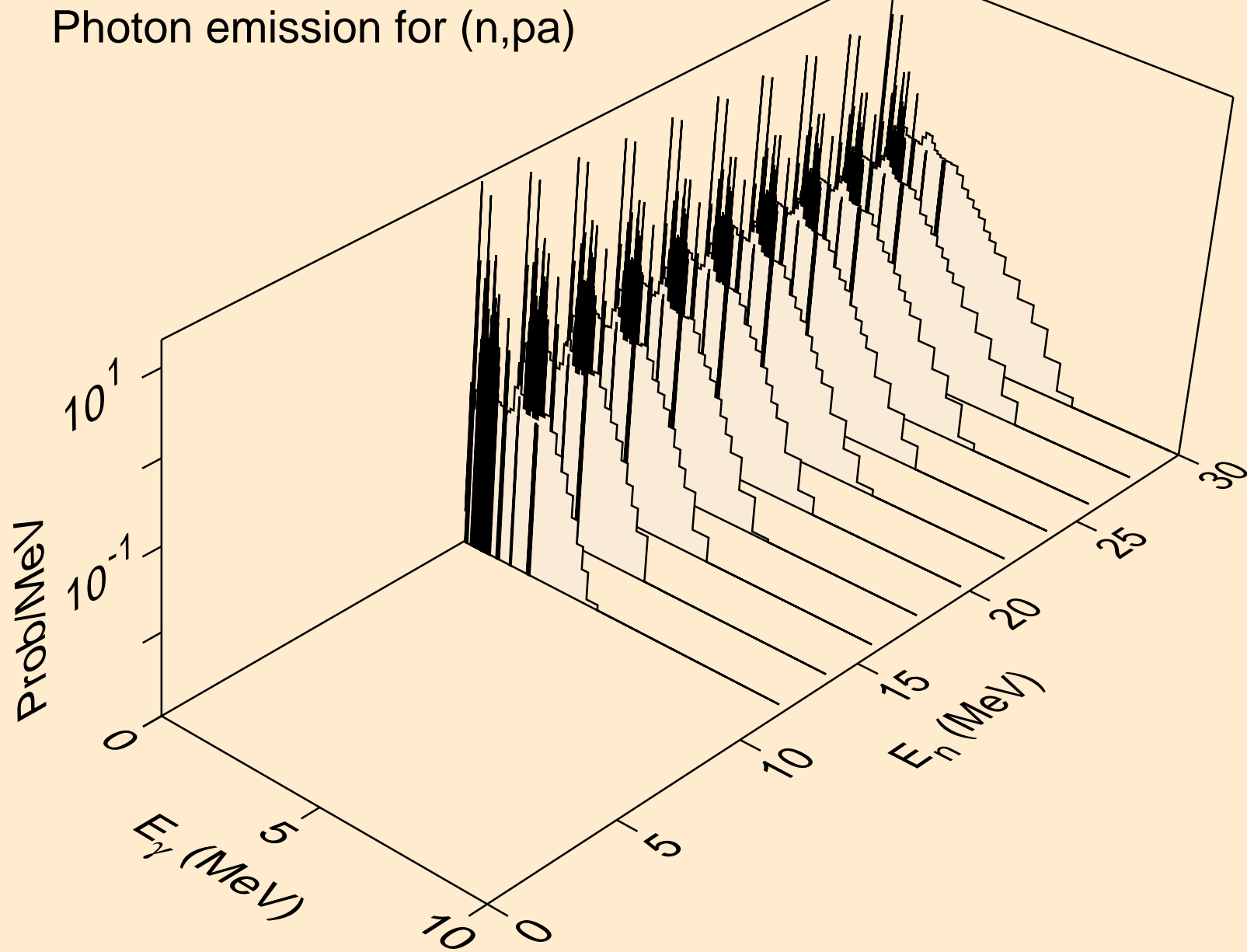
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2a)



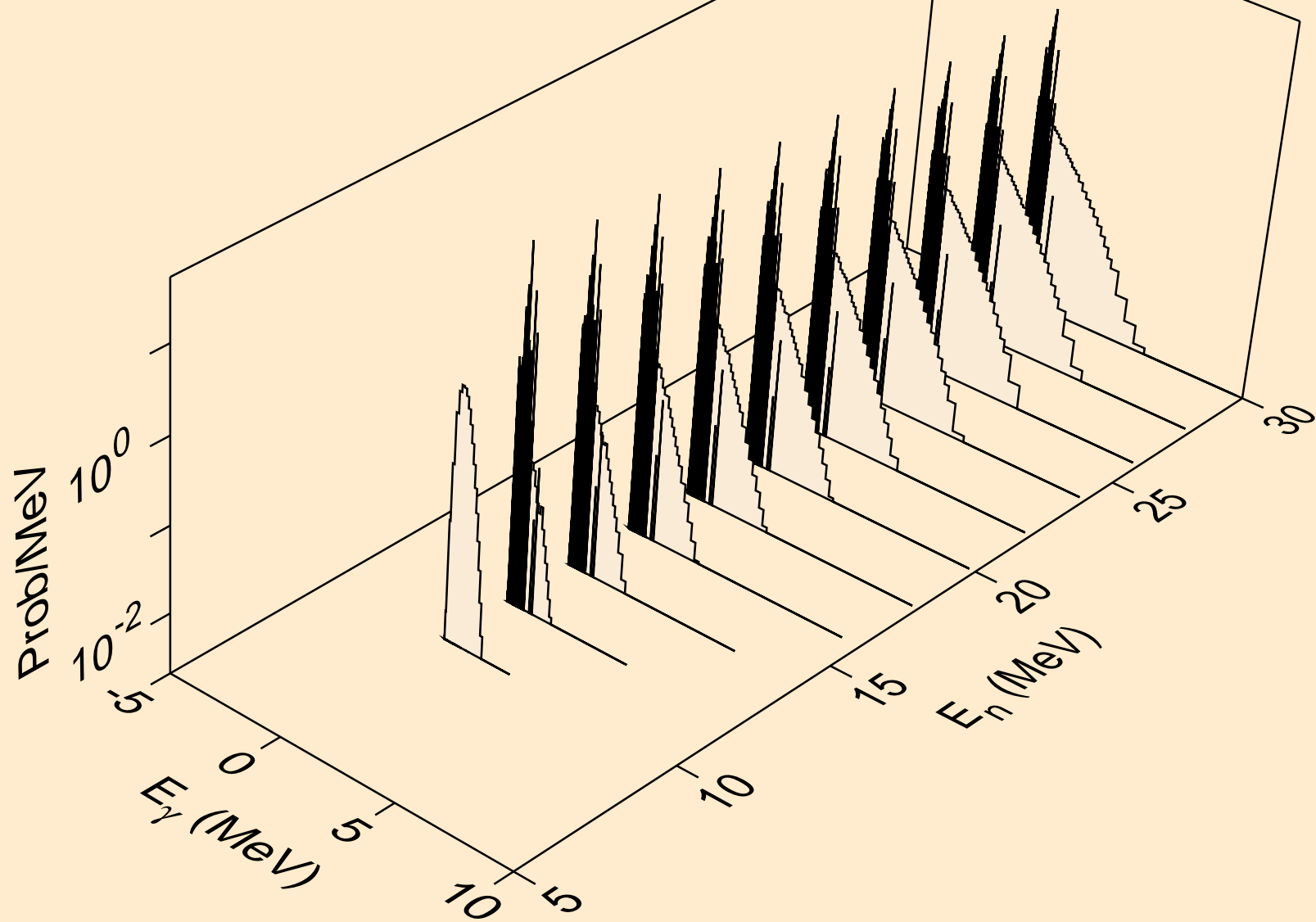
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,2p)



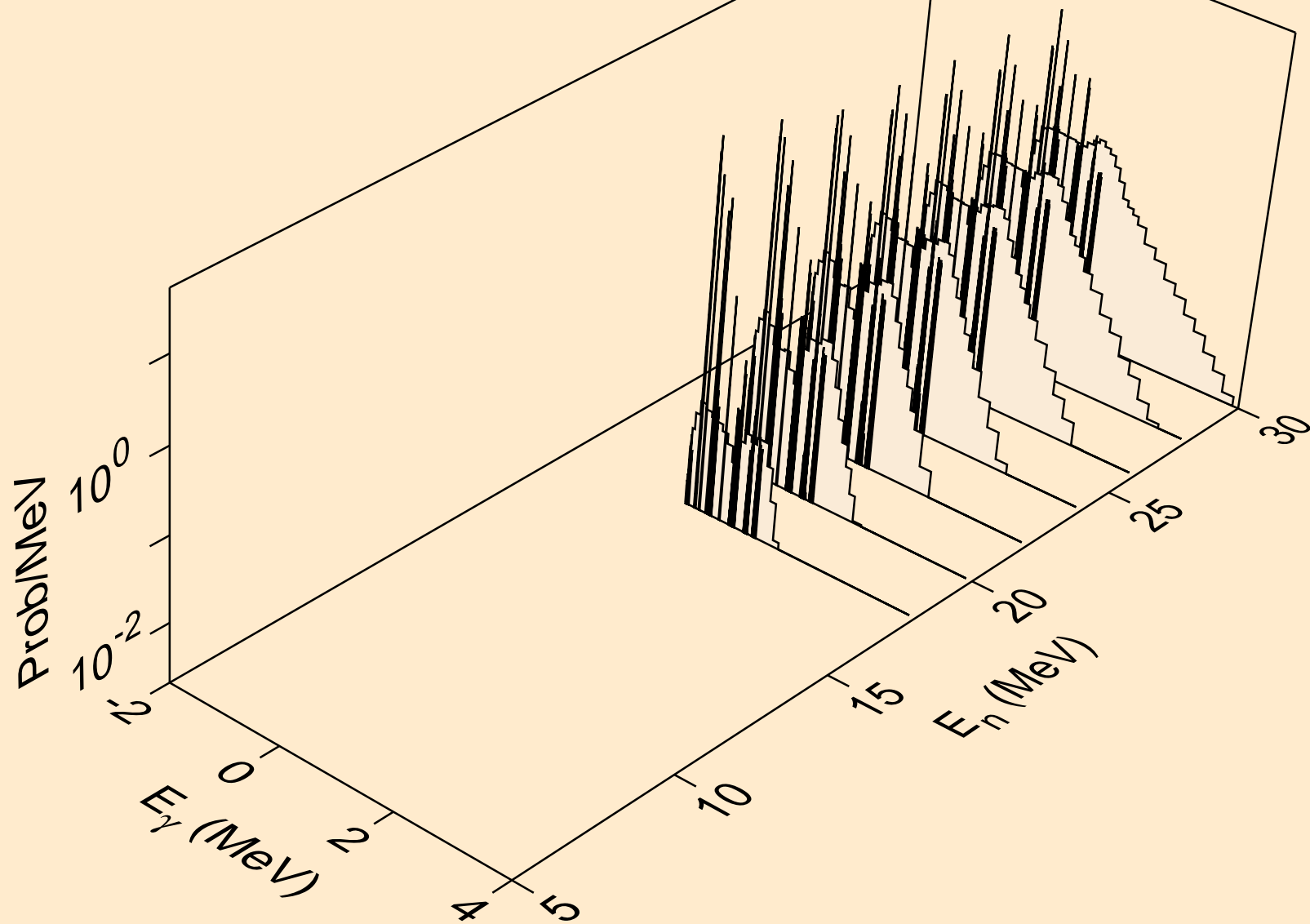
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,p)



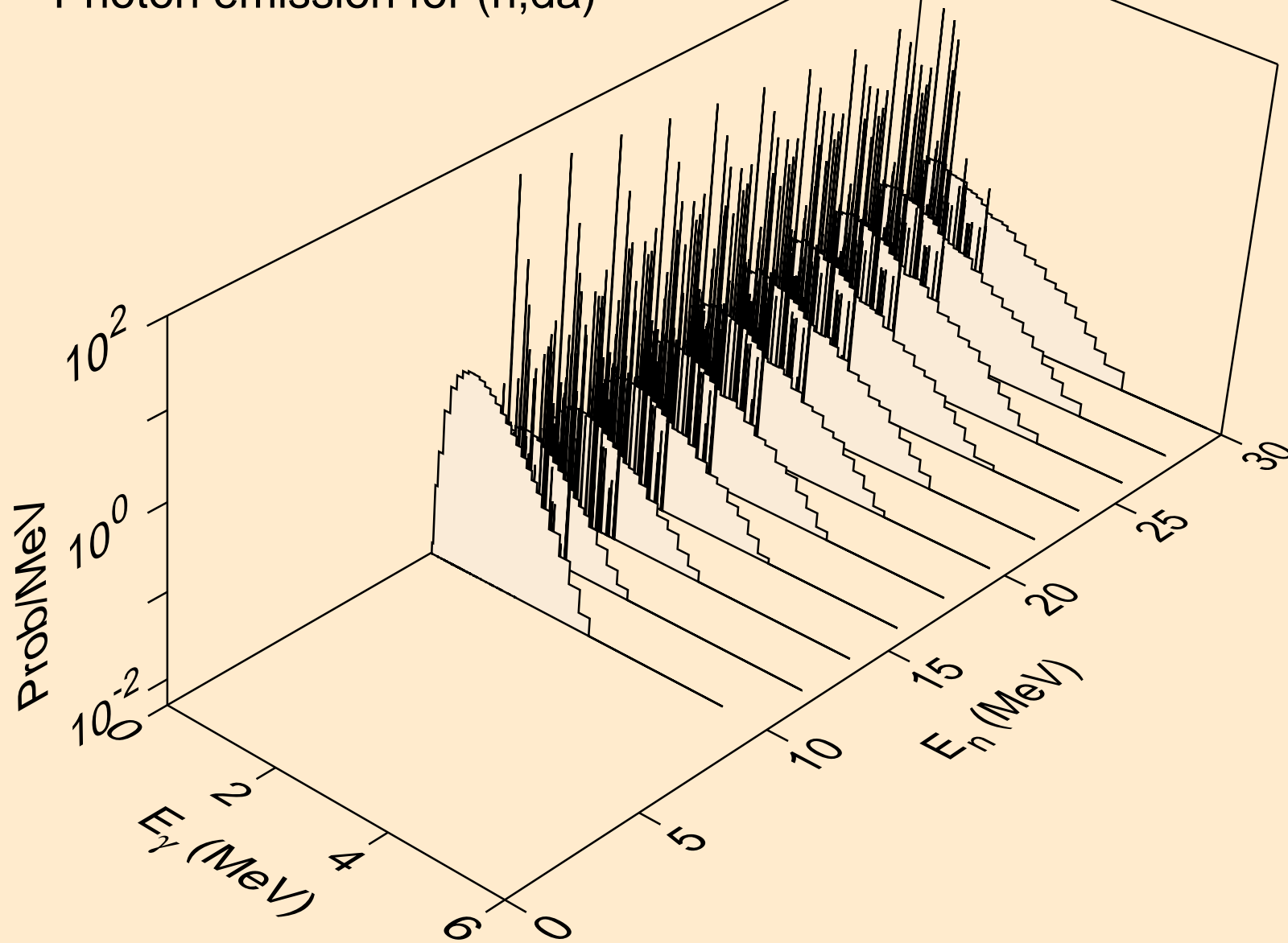
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pd)



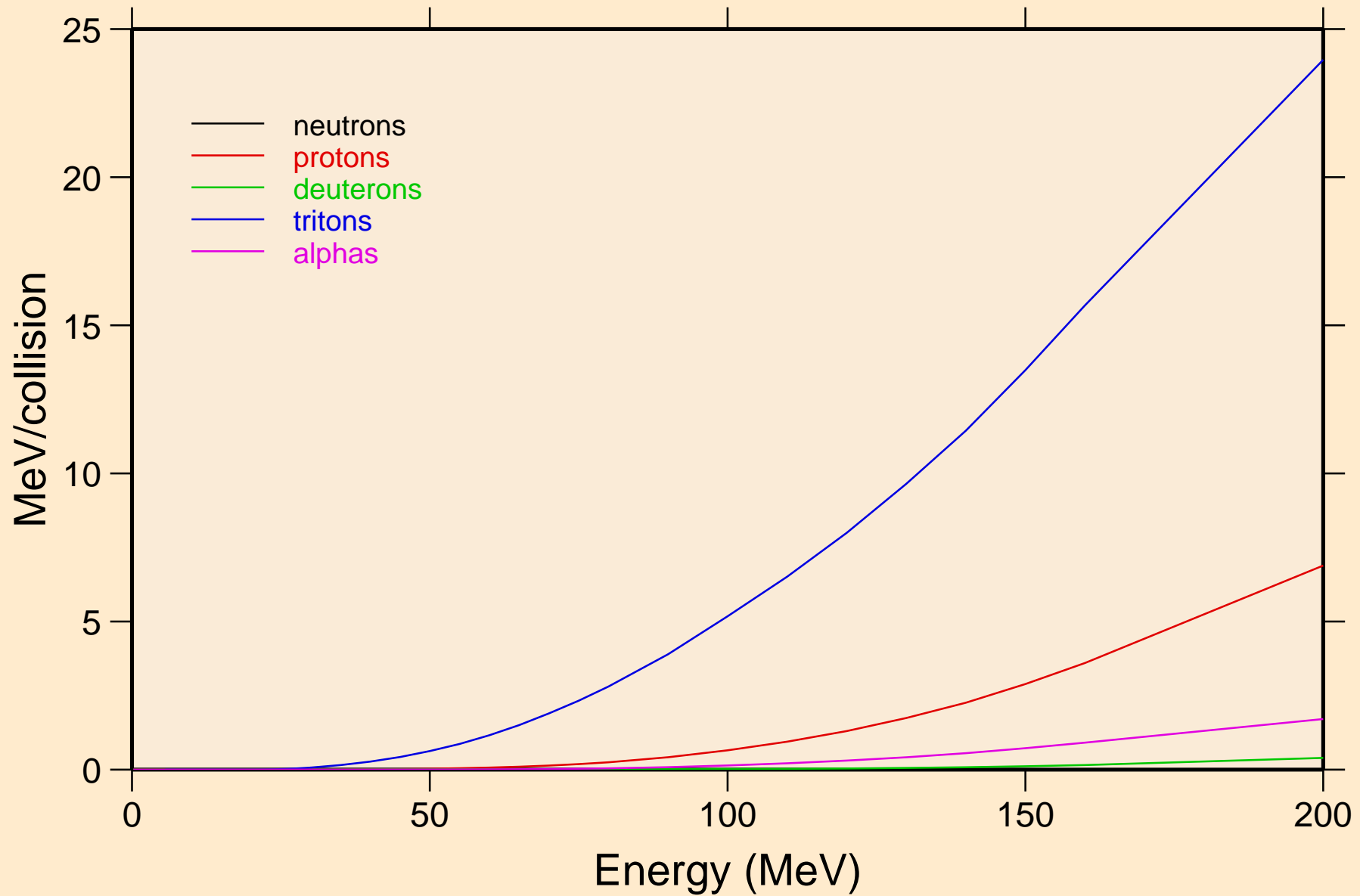
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,pt)



TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Photon emission for (n,da)

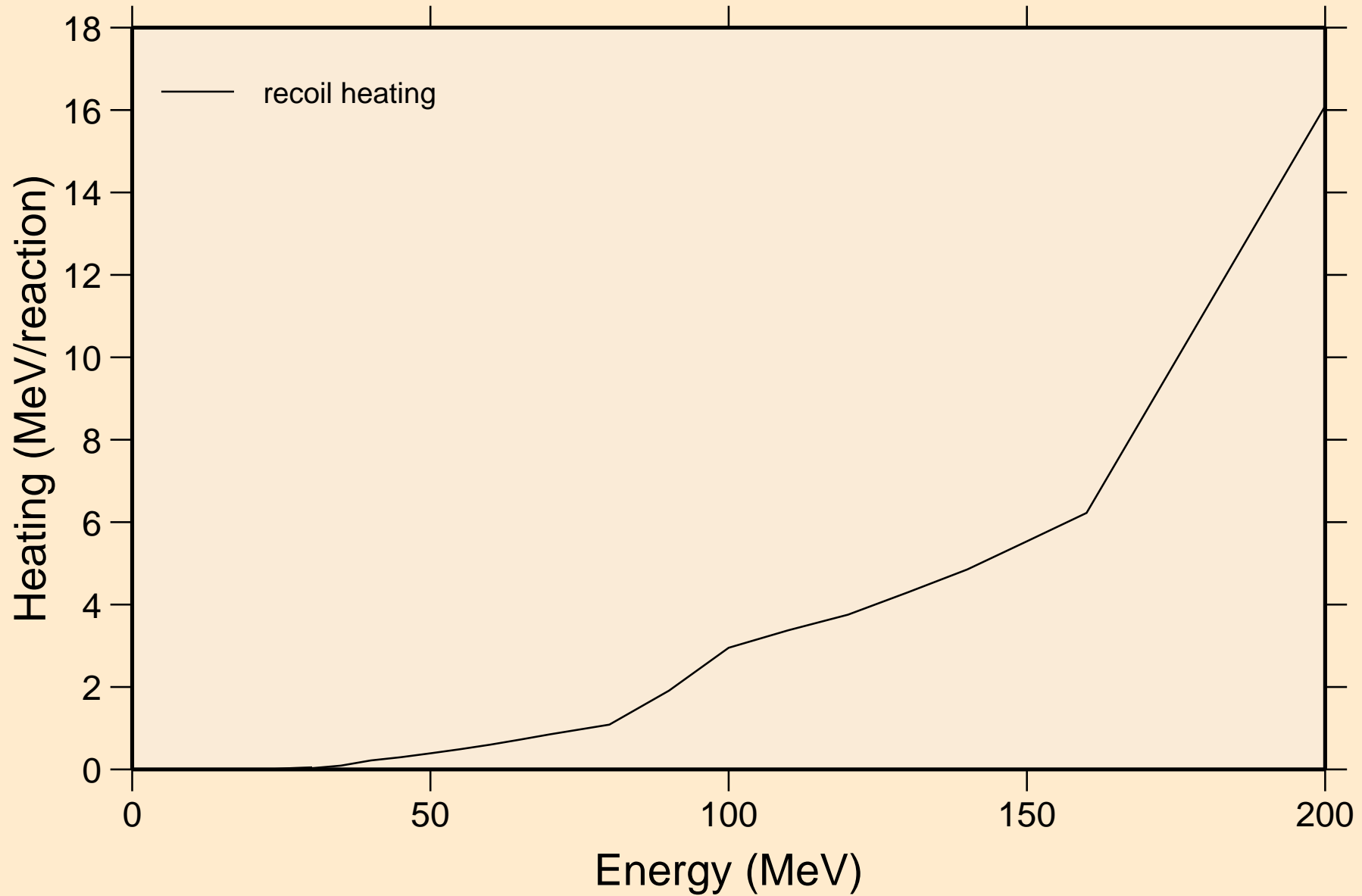


TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Particle heating contributions

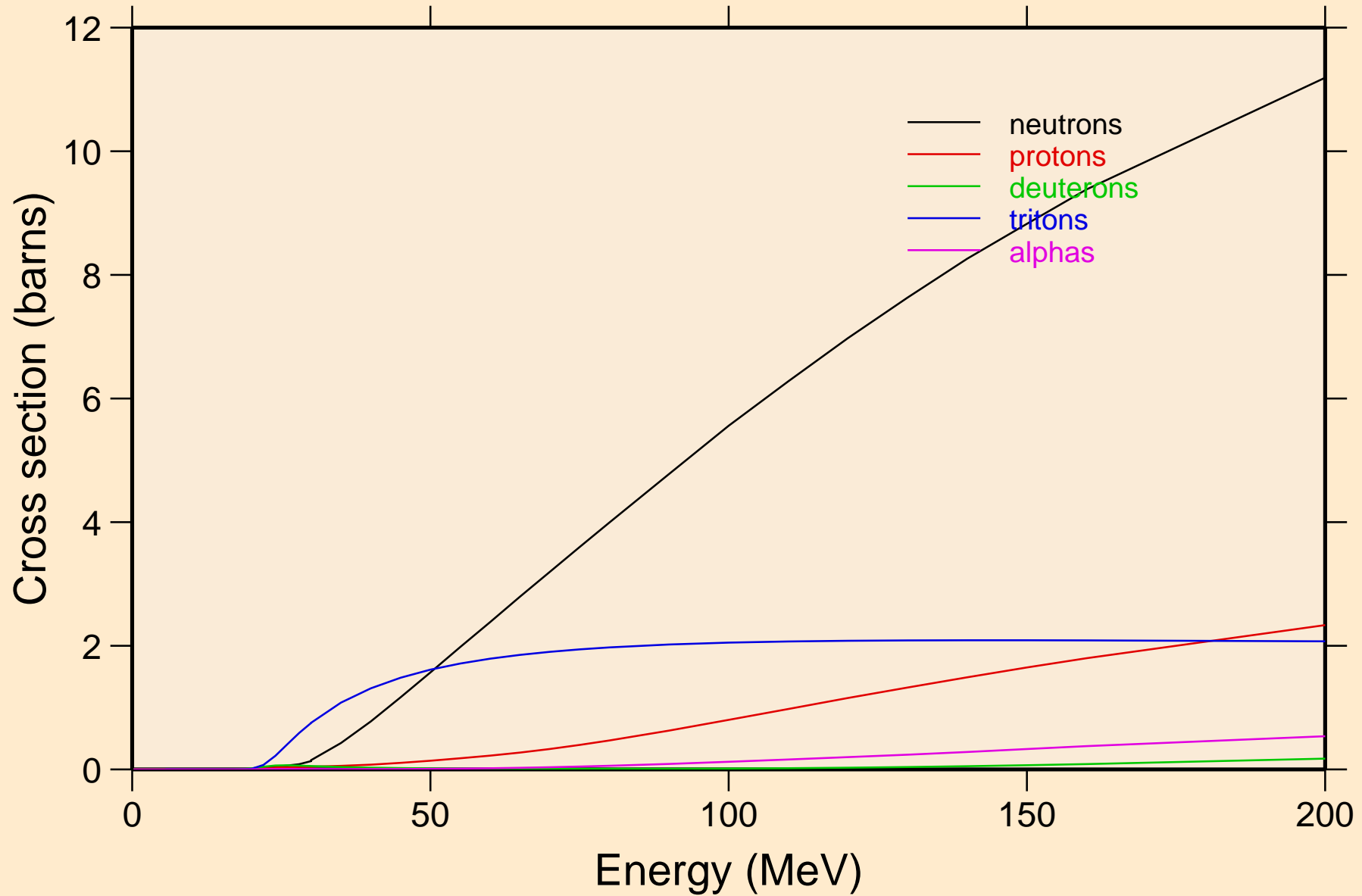


TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K

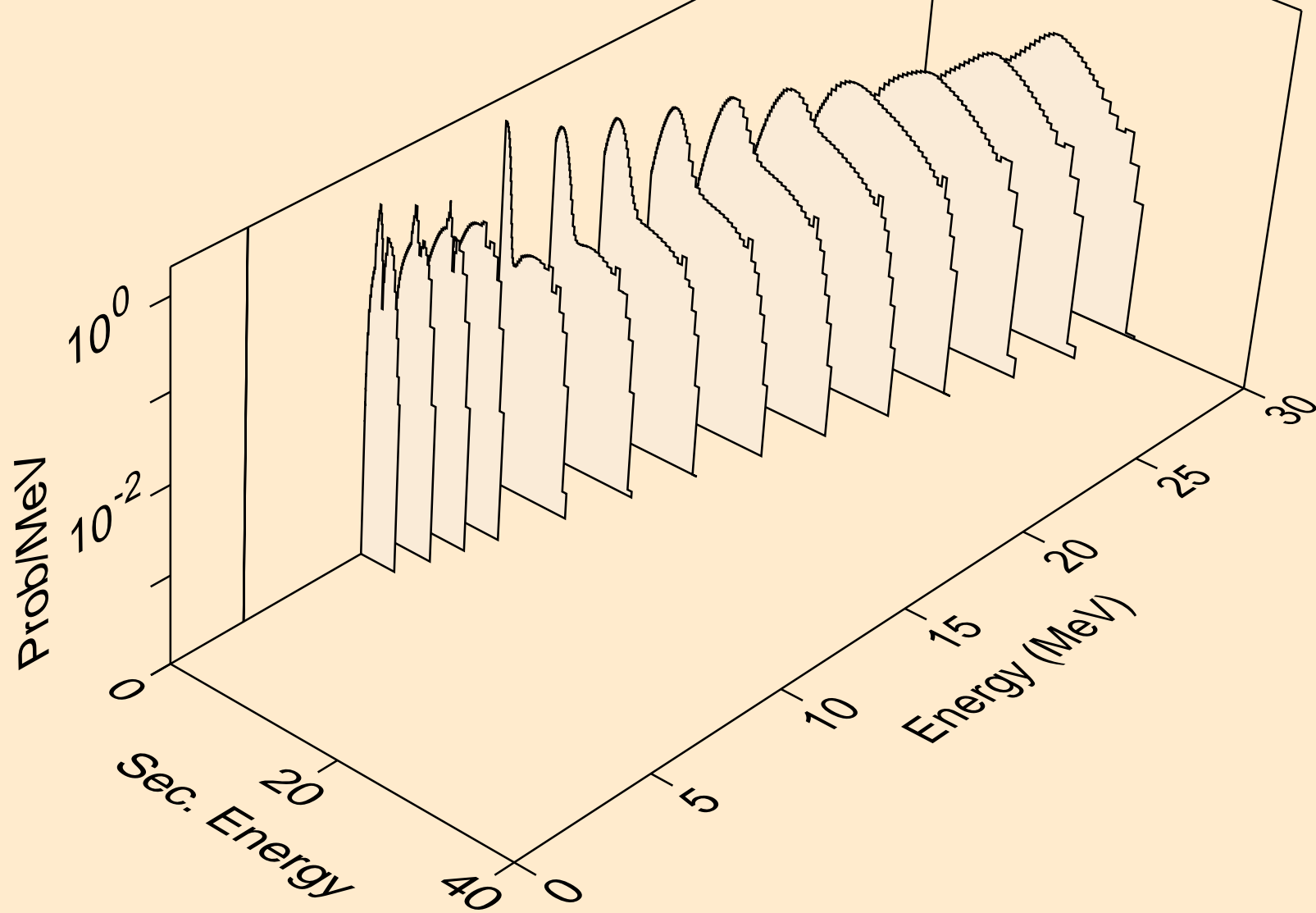
### Recoil Heating



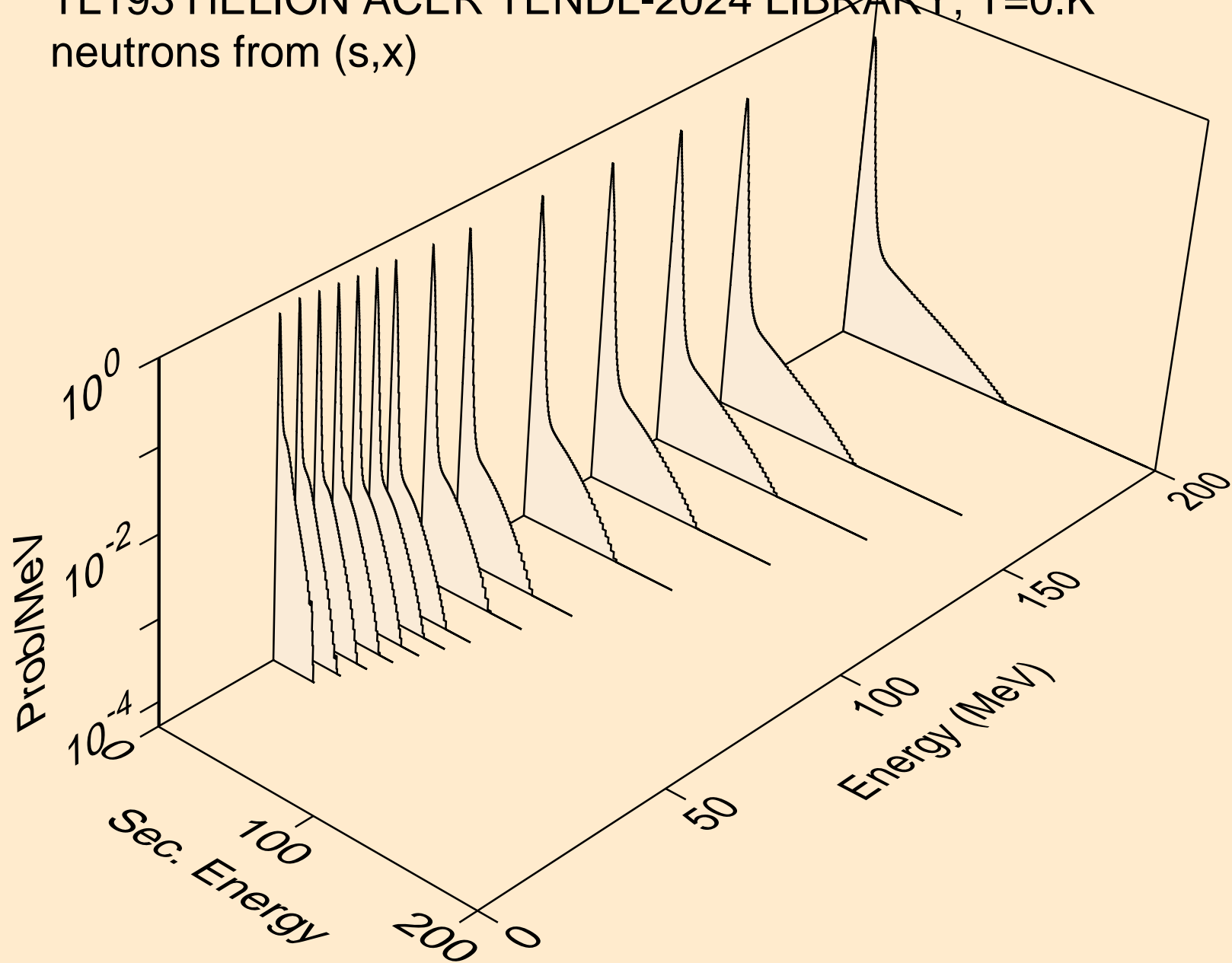
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
Particle production cross sections



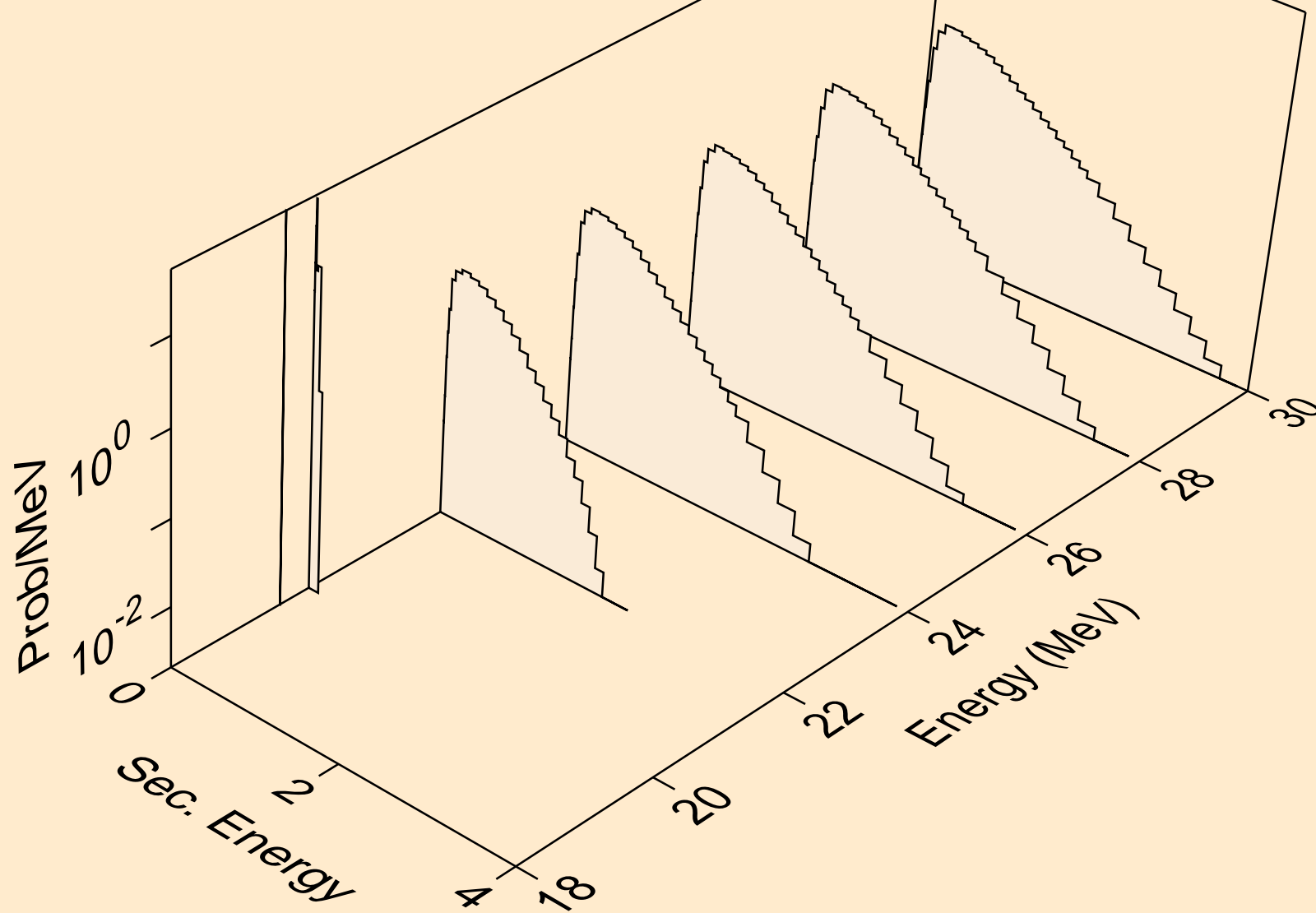
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n)



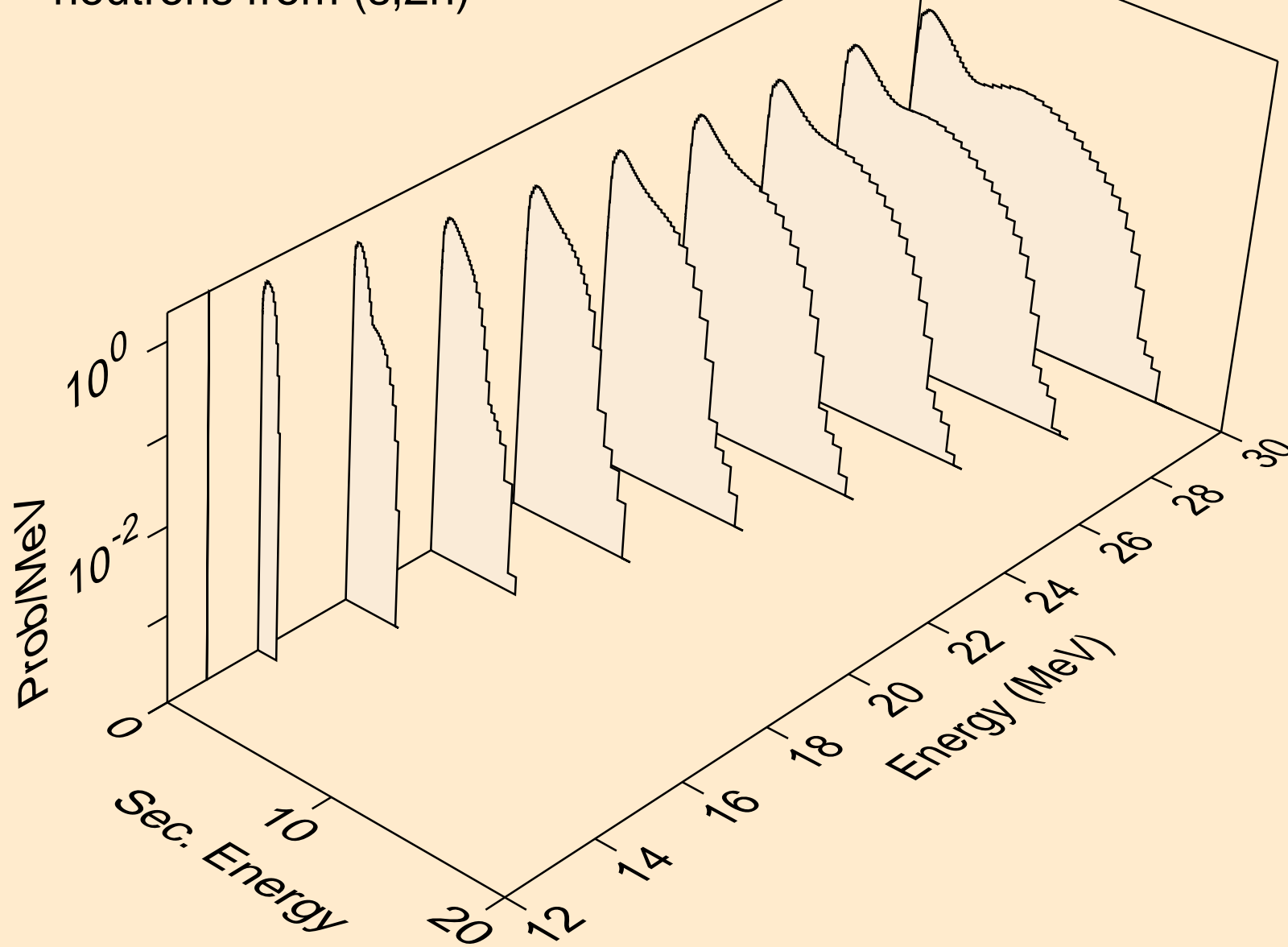
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,x)



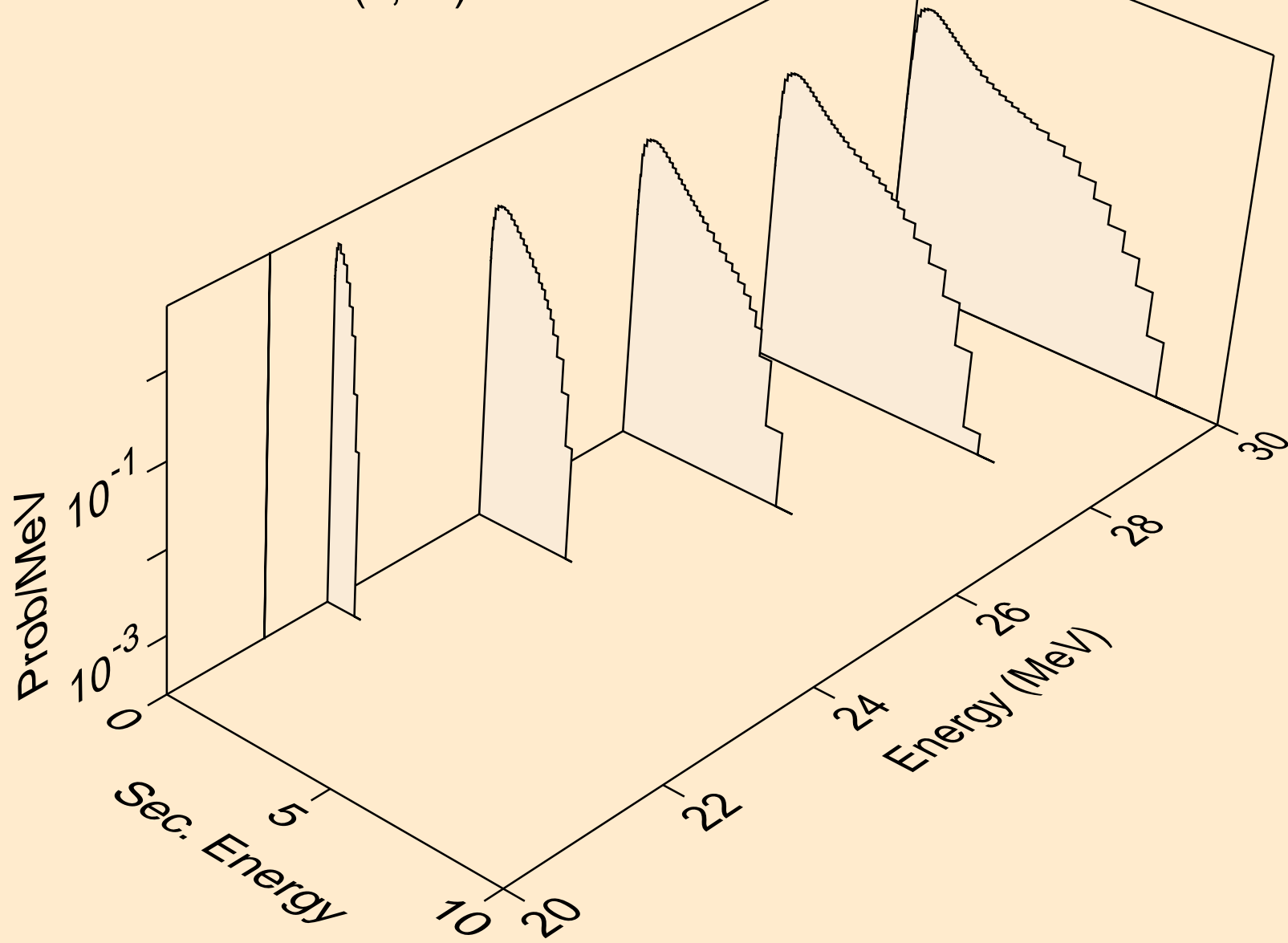
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,2nd)



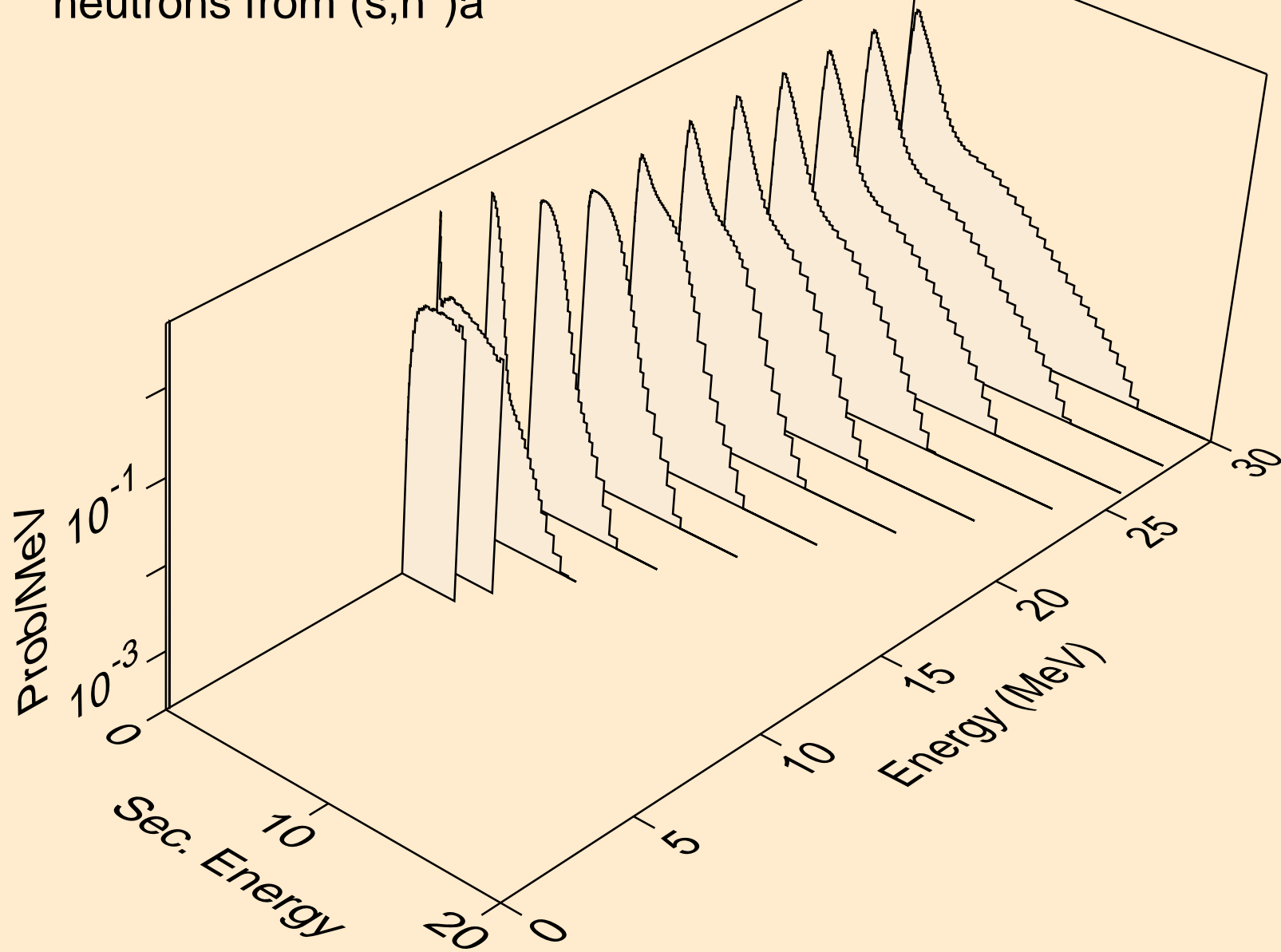
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,2n)



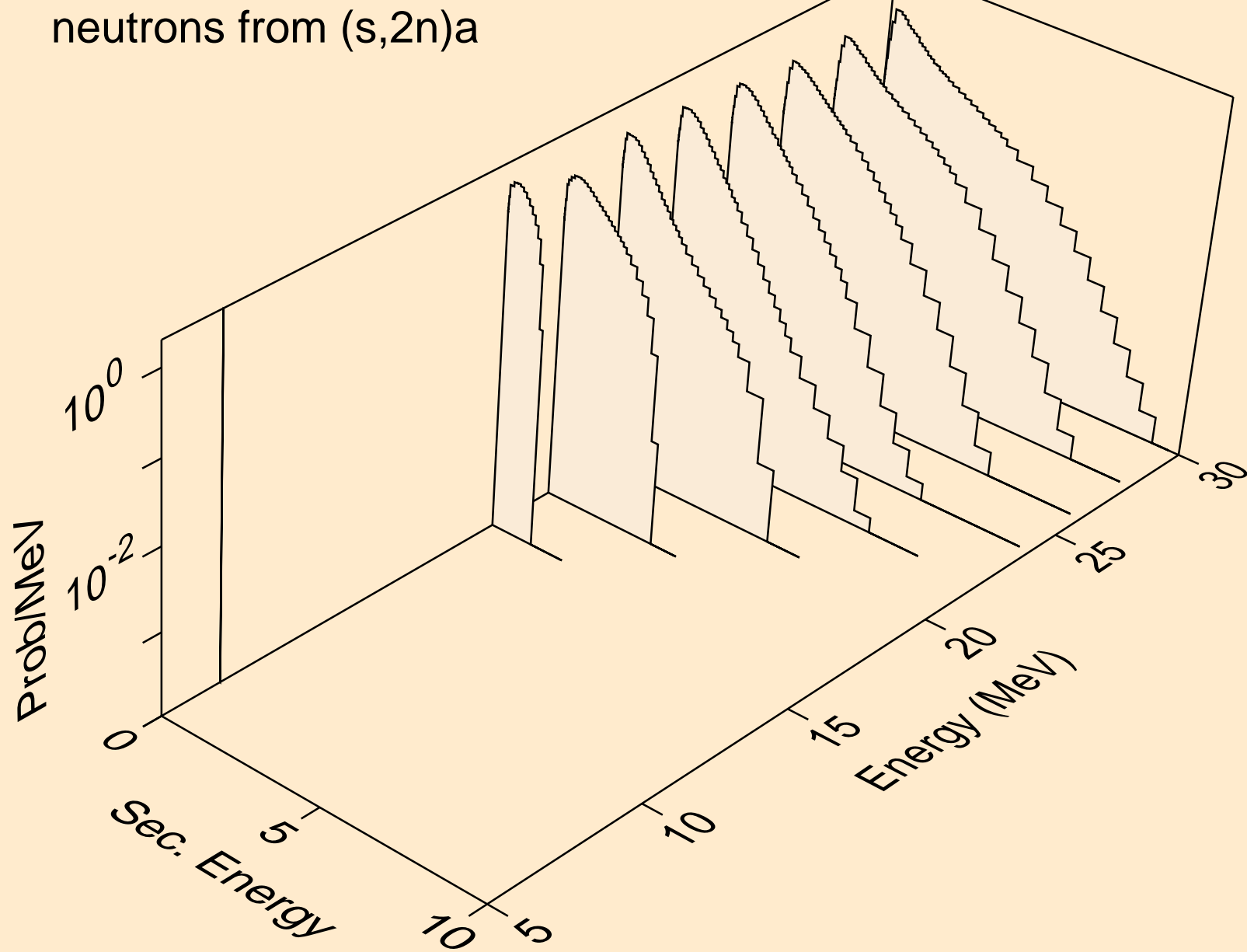
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,3n)



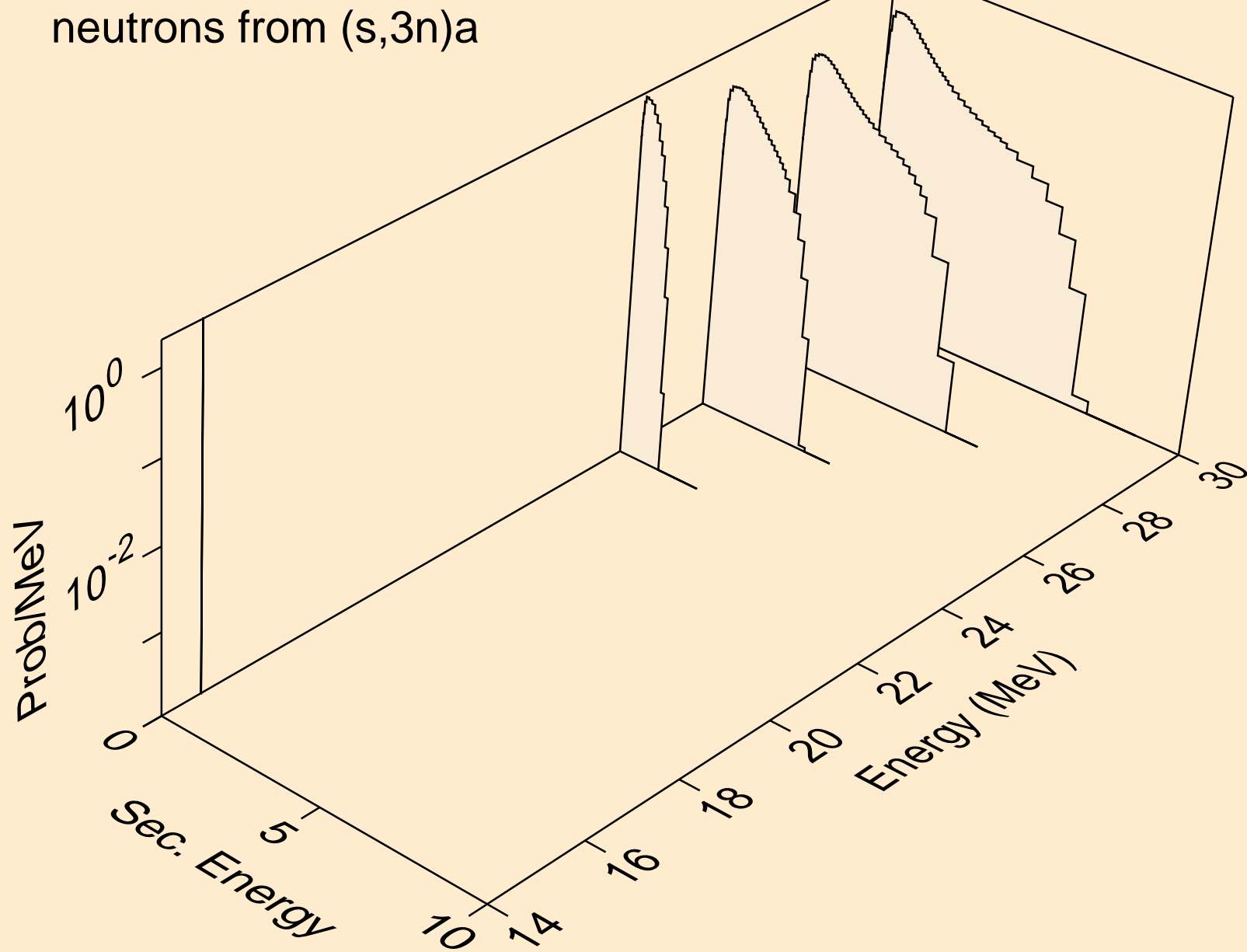
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)a



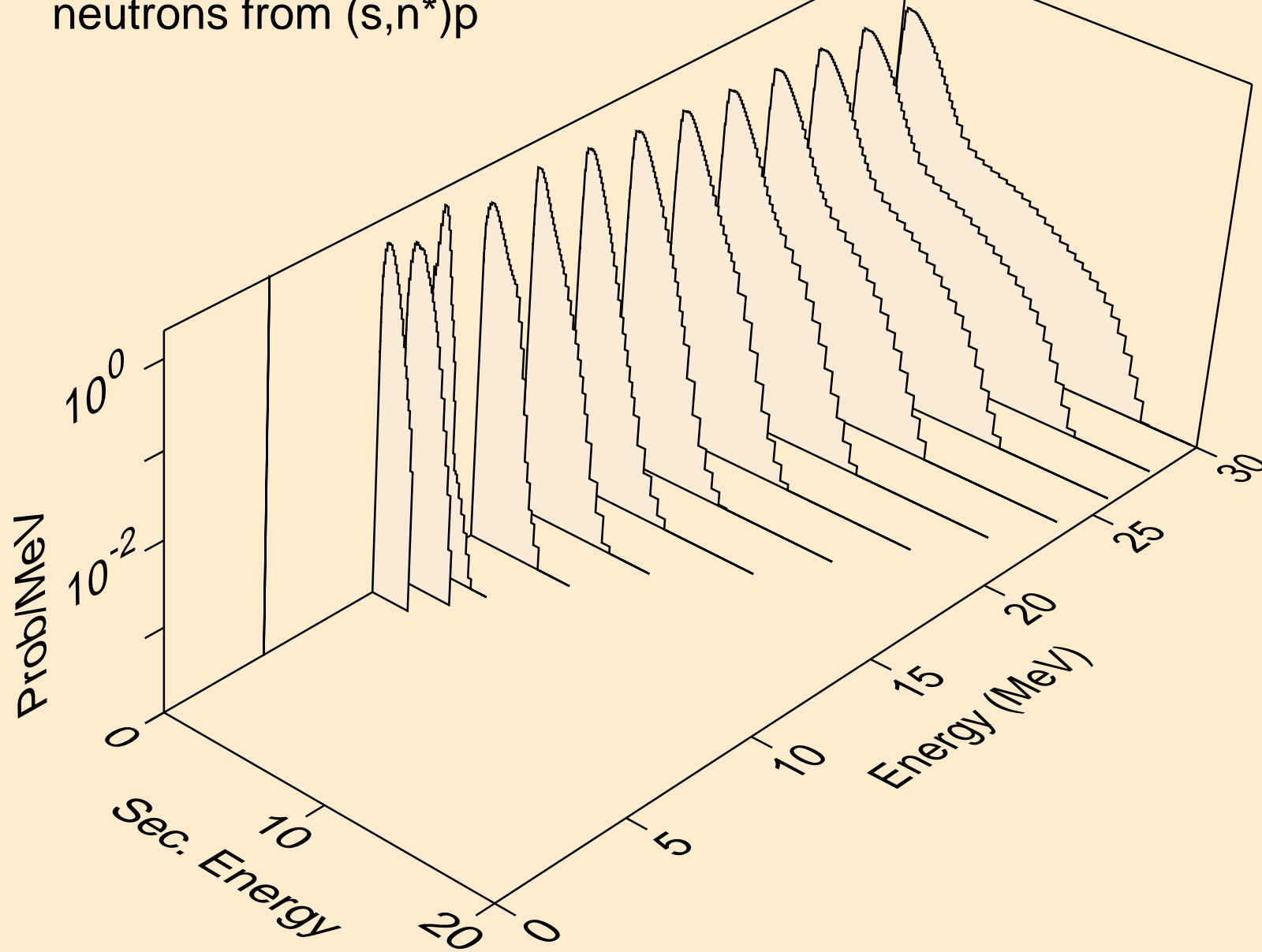
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,2n)a



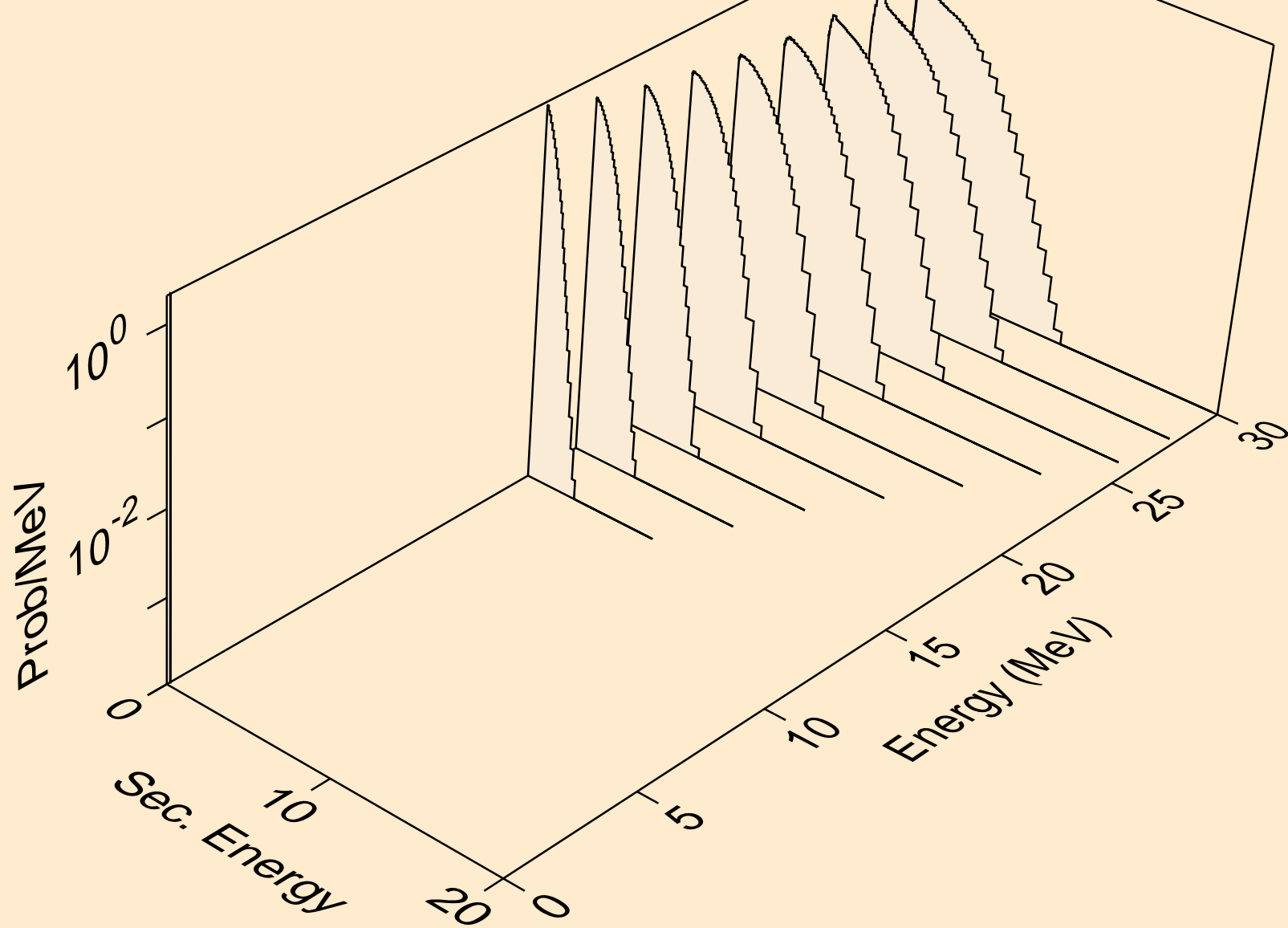
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,3n)a



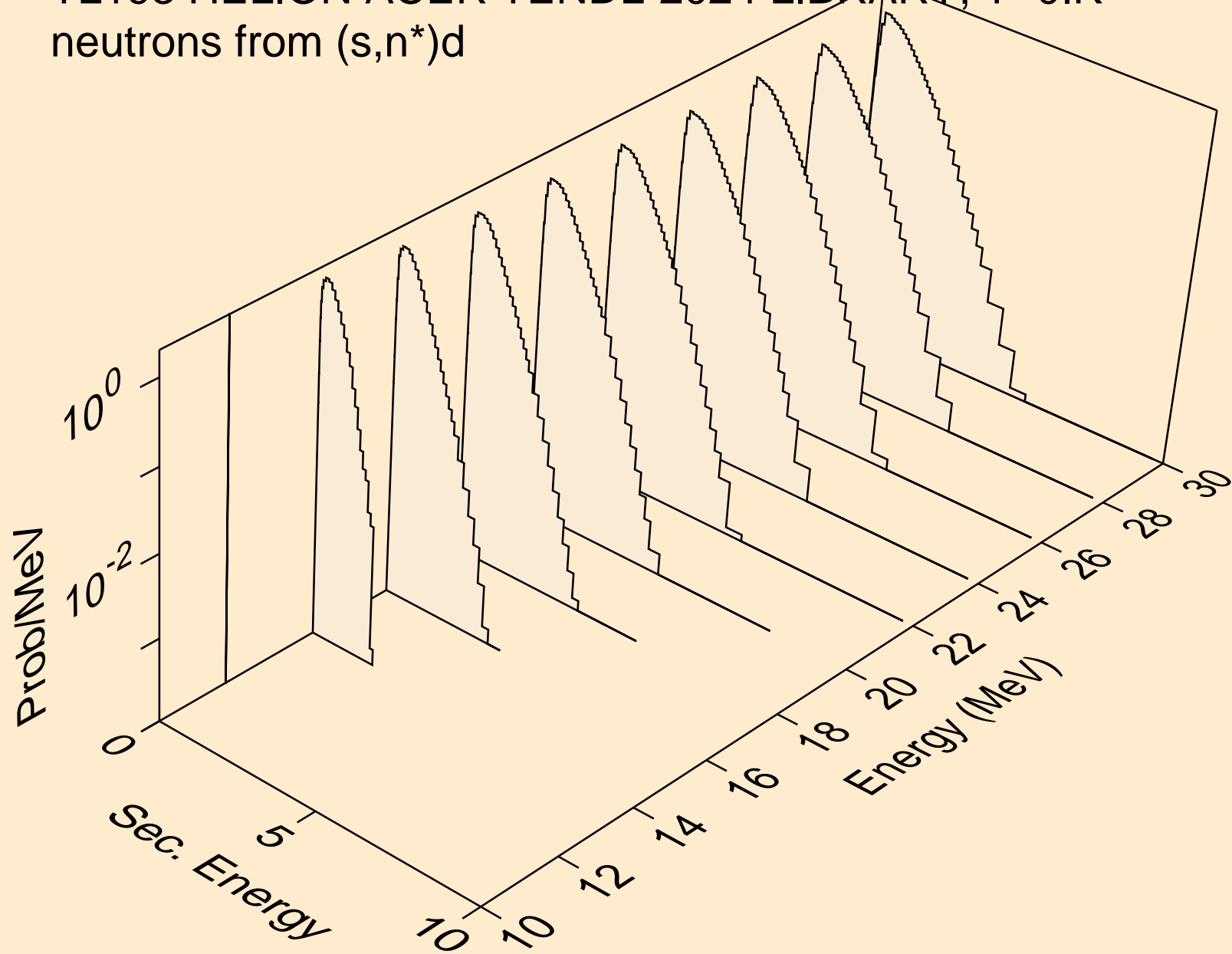
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)p



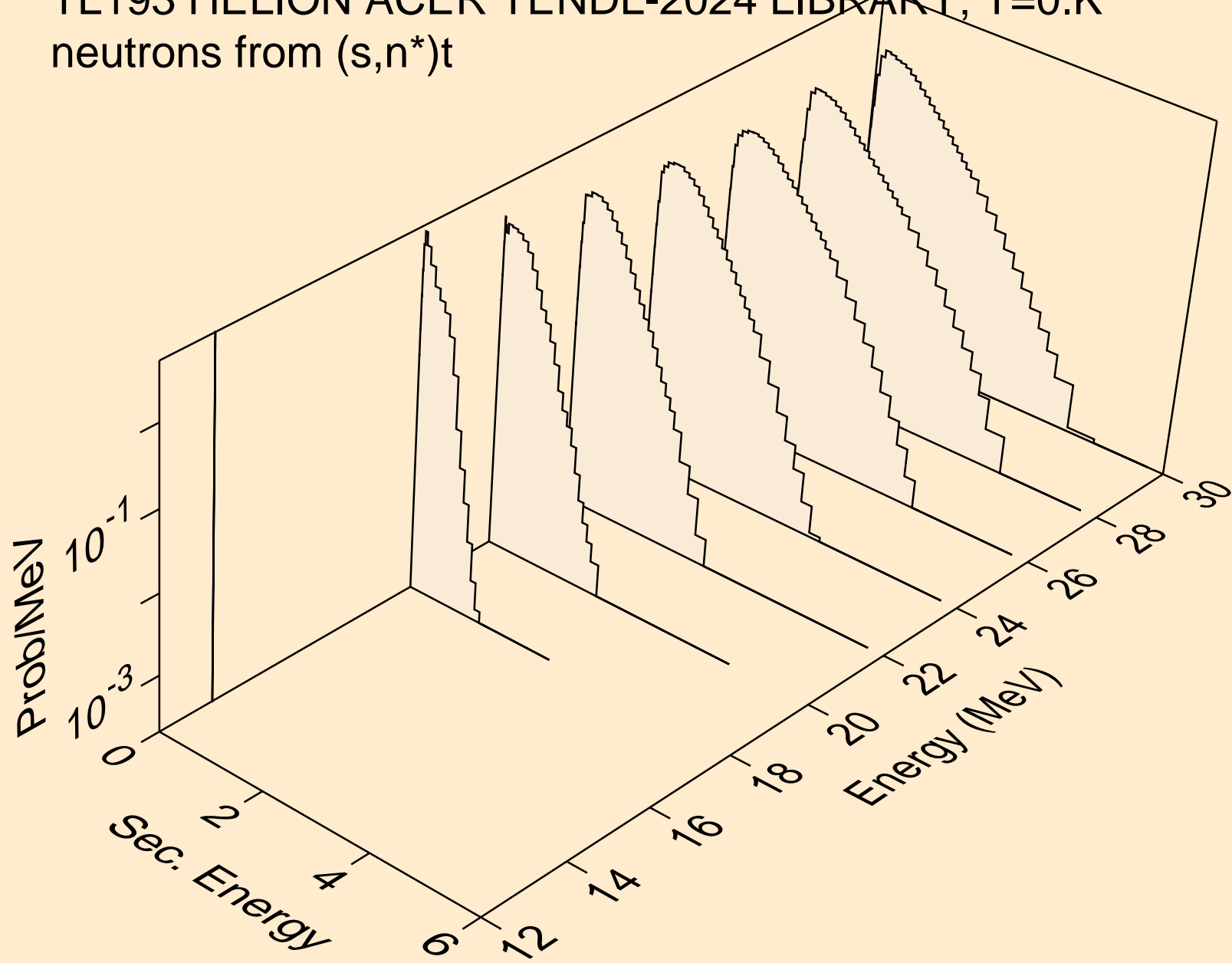
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)2a



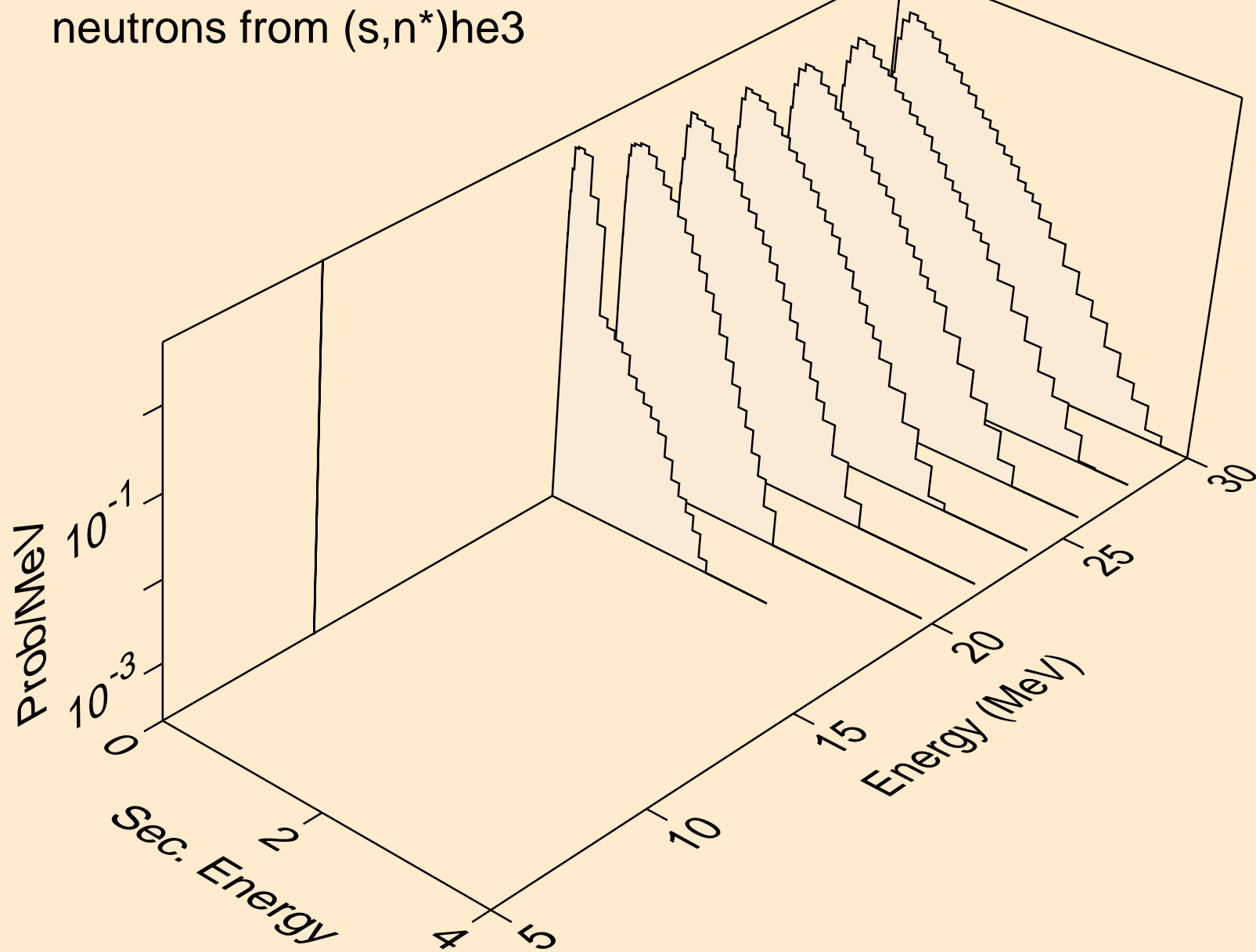
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)d



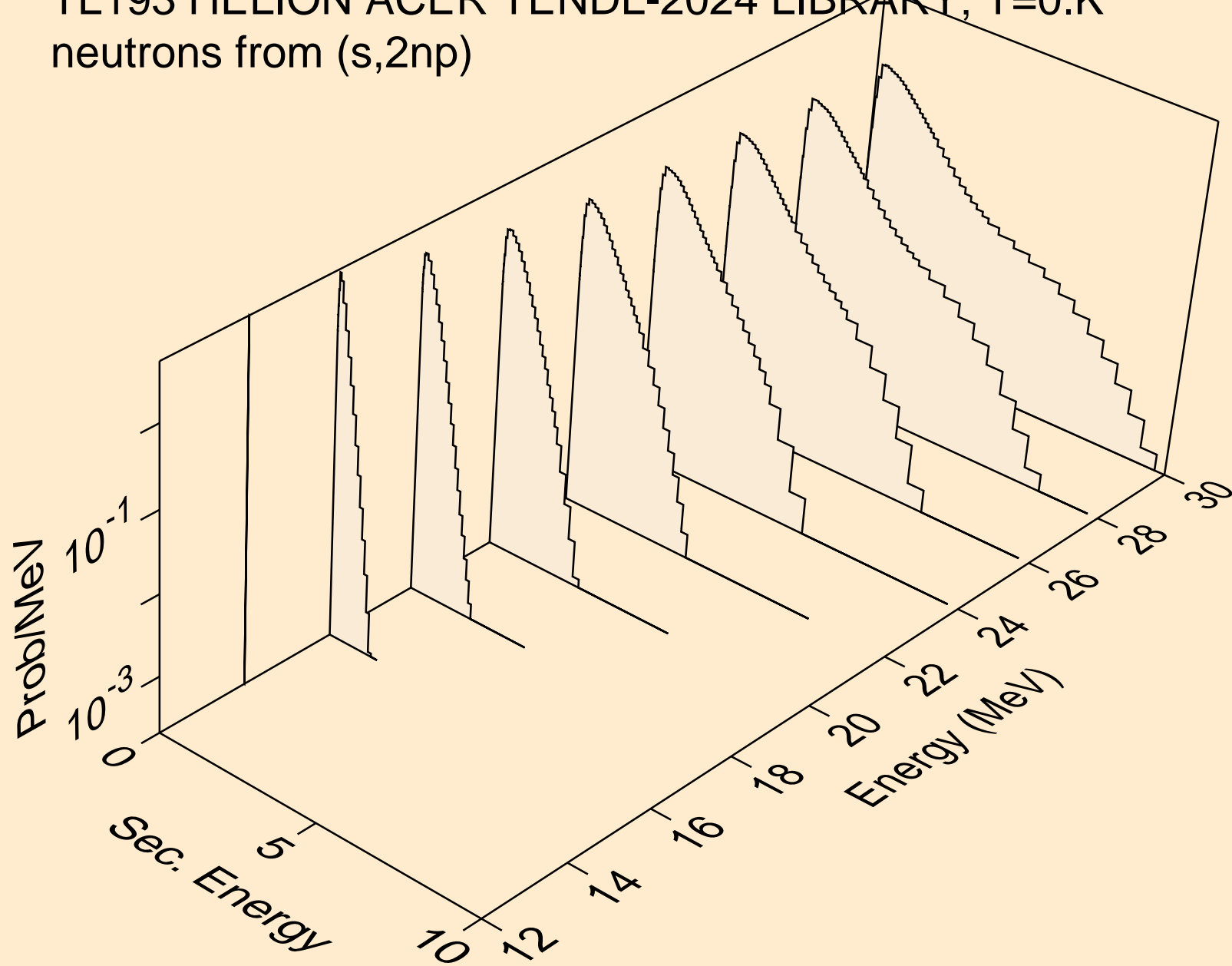
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)t



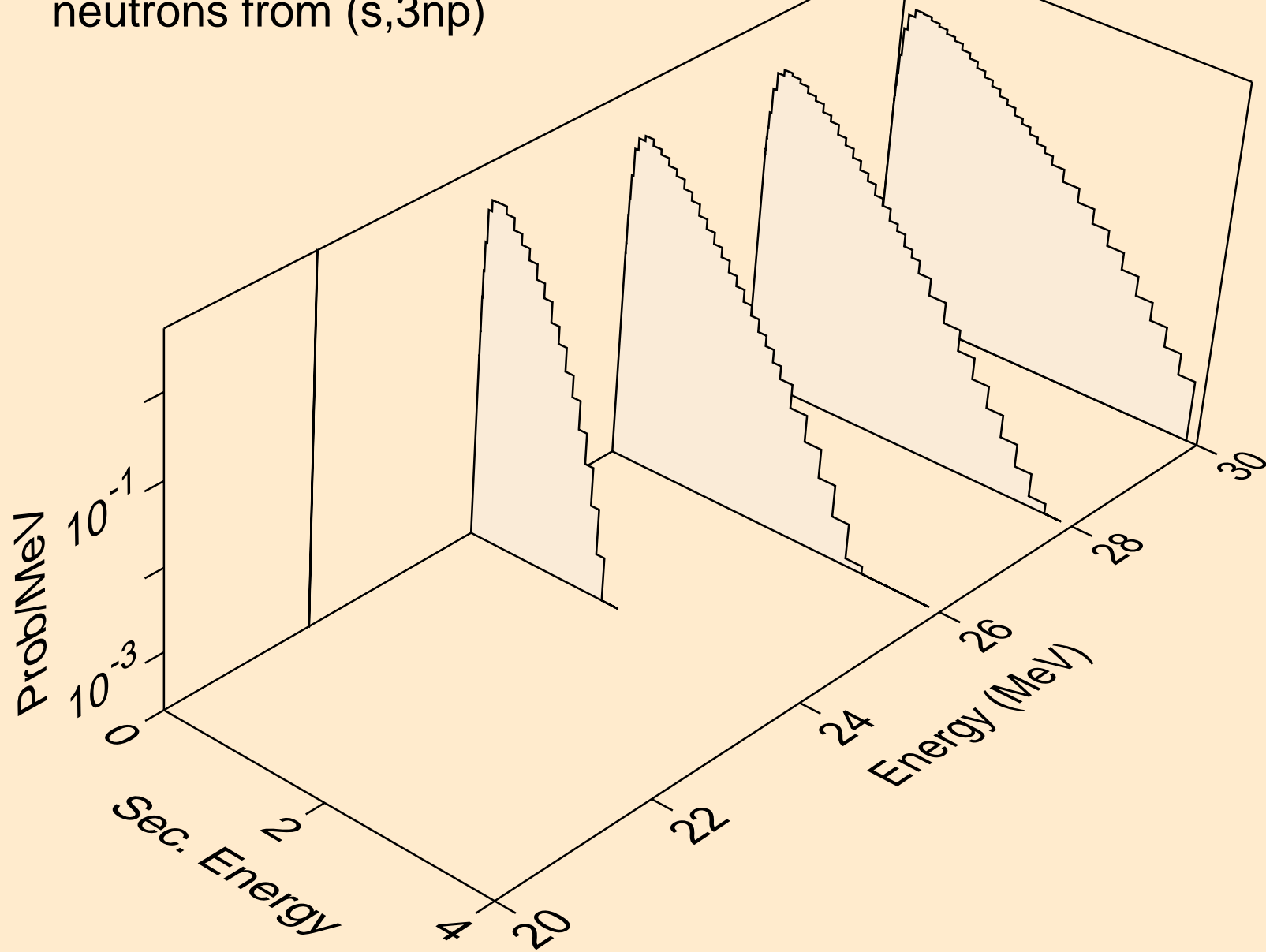
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n\*)he3



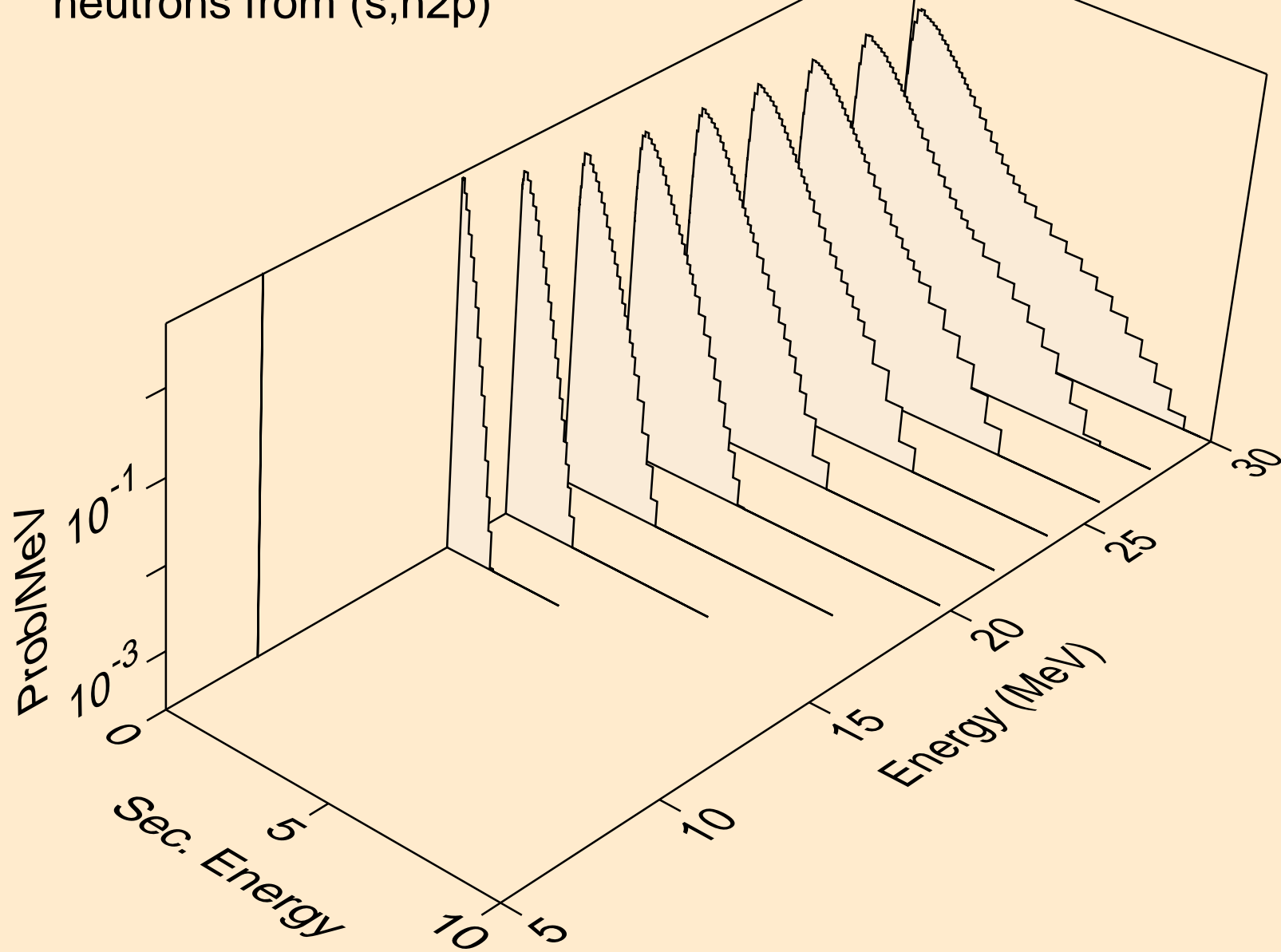
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,2np)



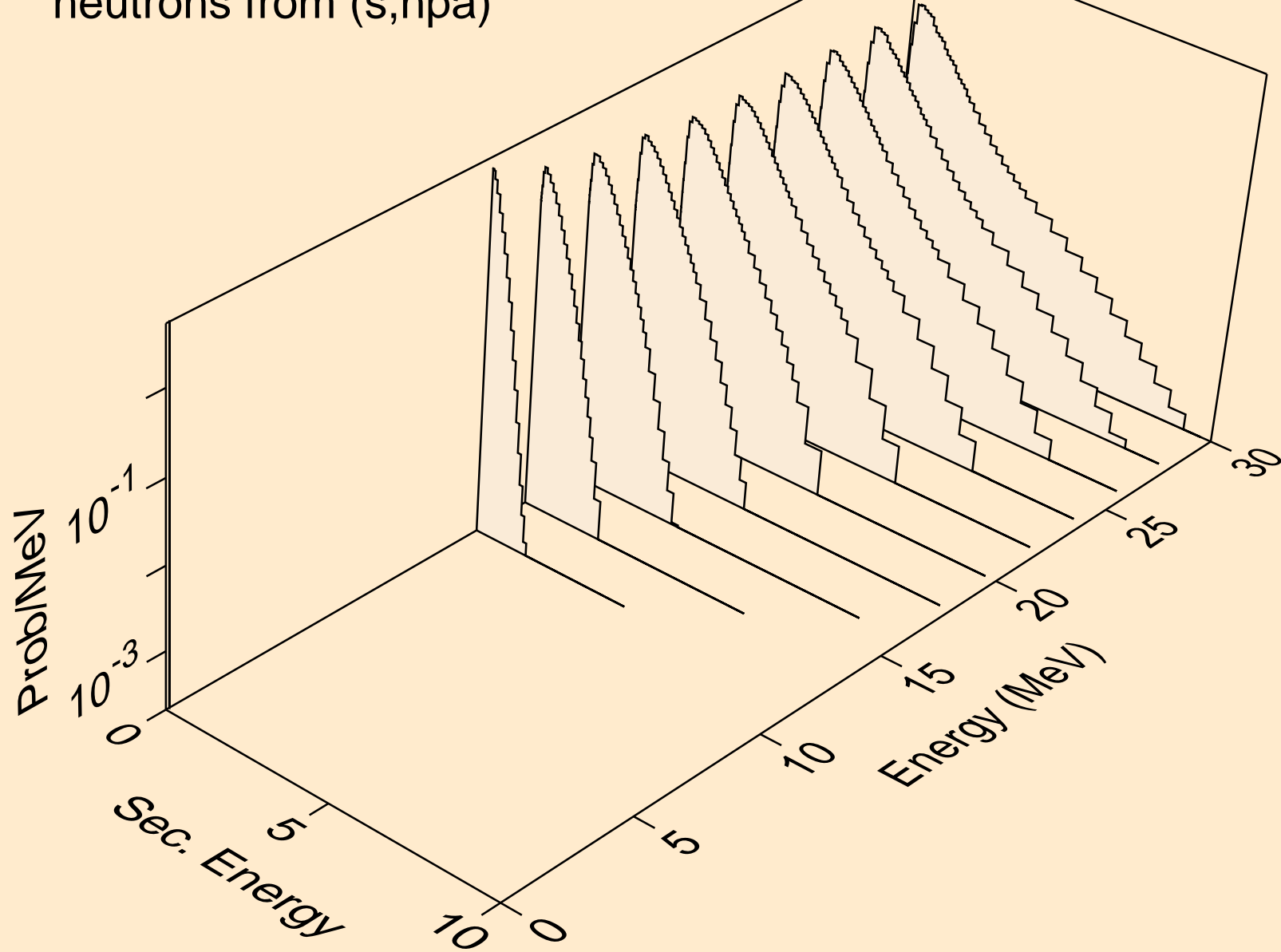
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,3np)



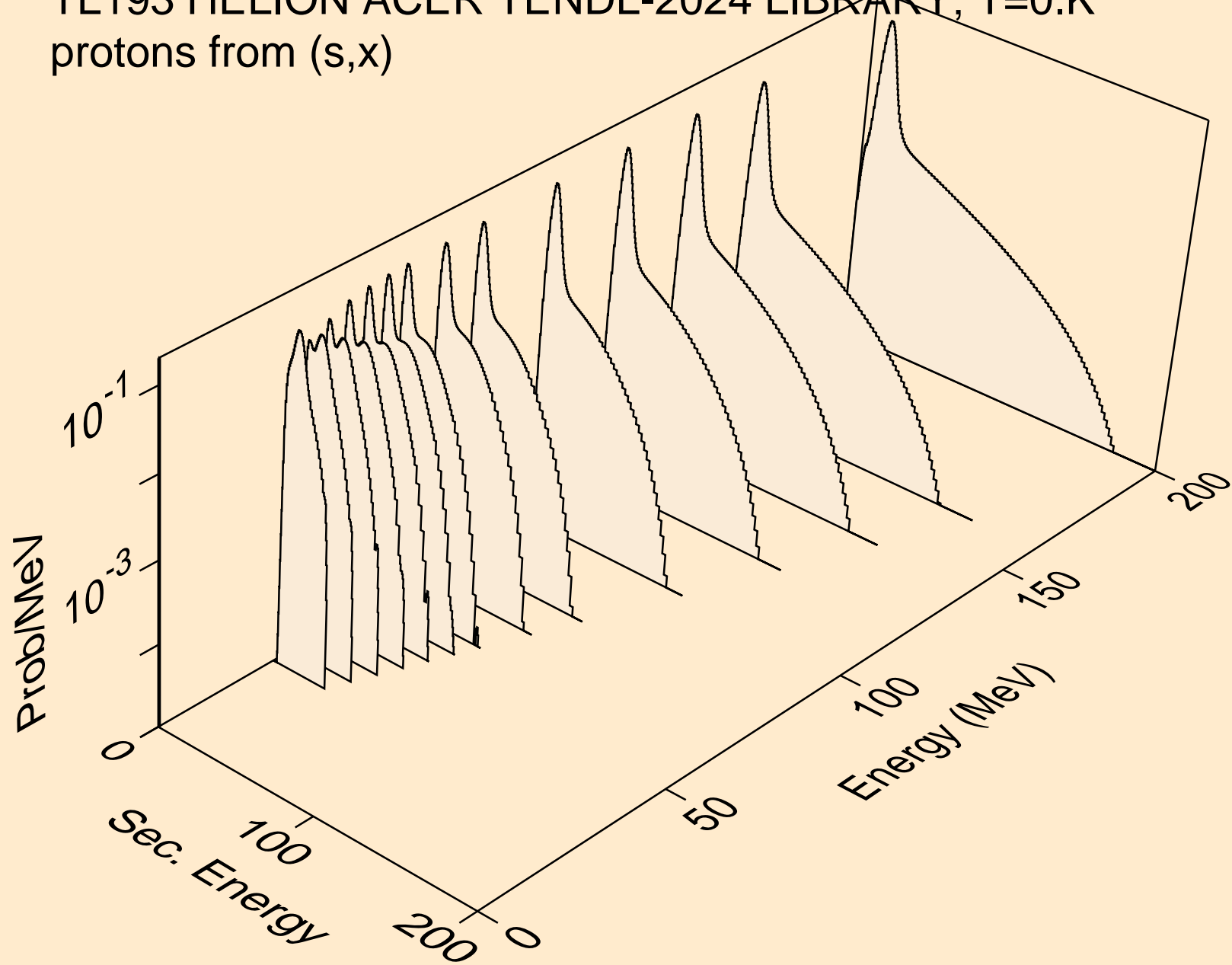
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,n2p)



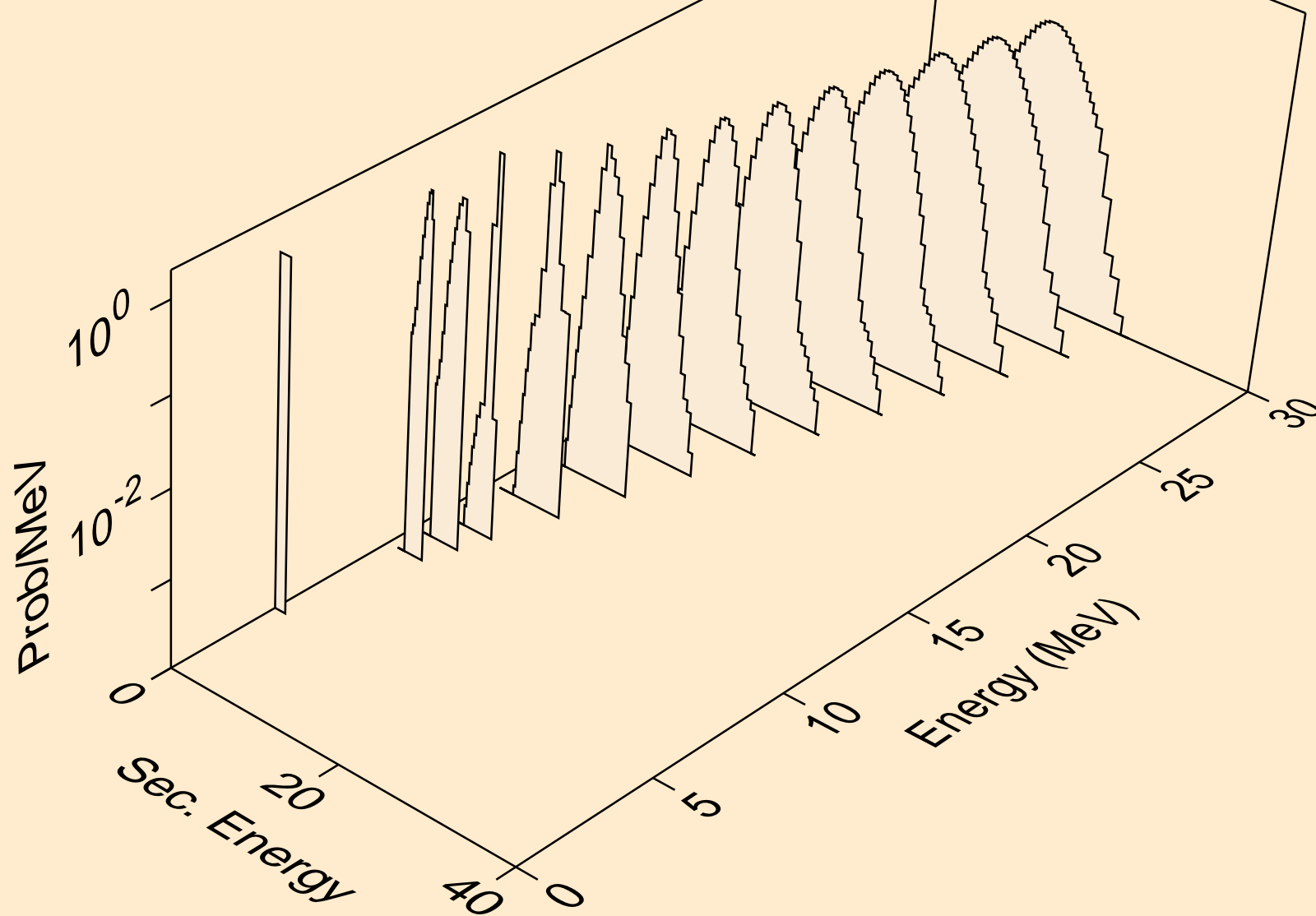
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
neutrons from (s,npa)



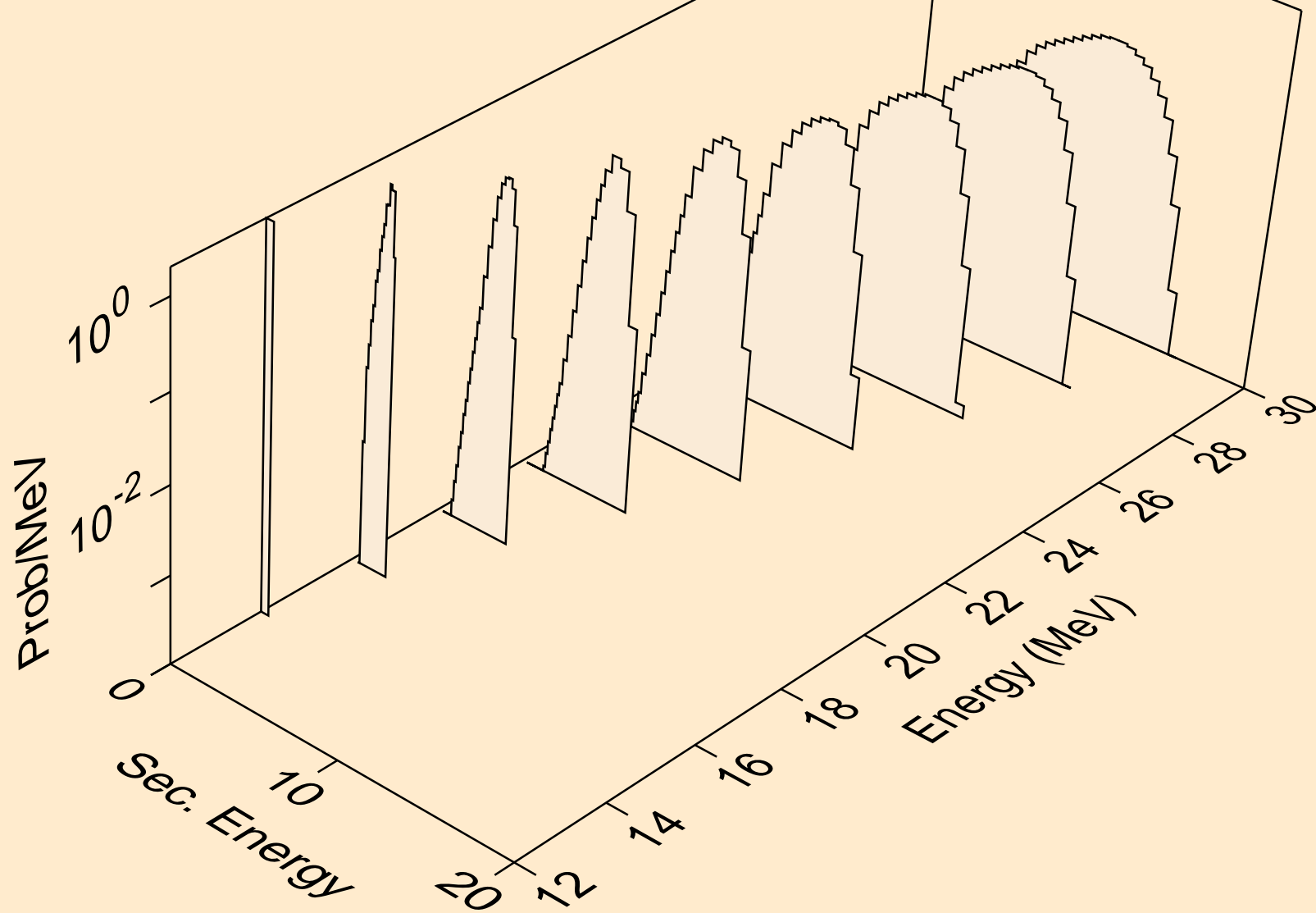
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,x)



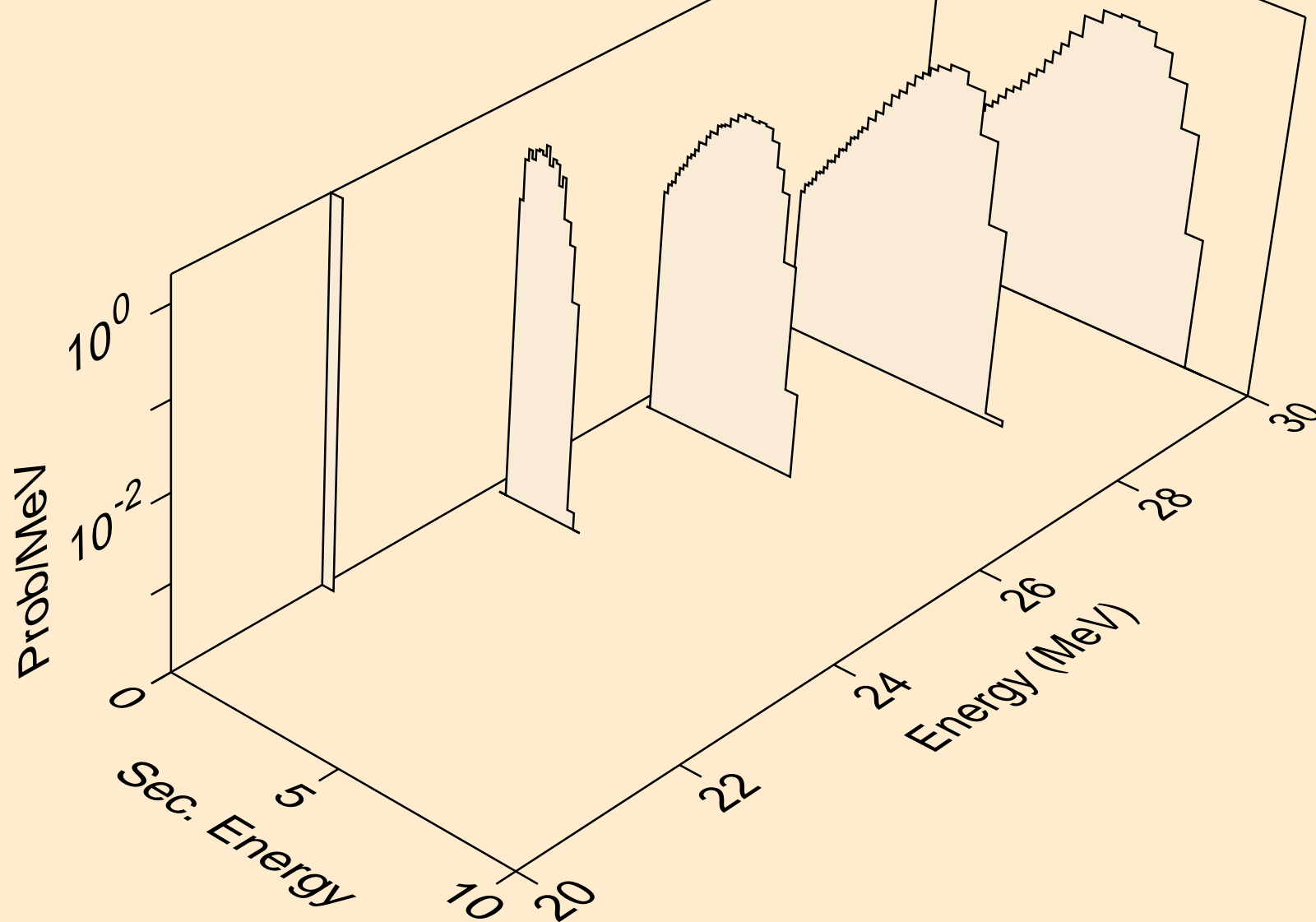
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,n\*)p



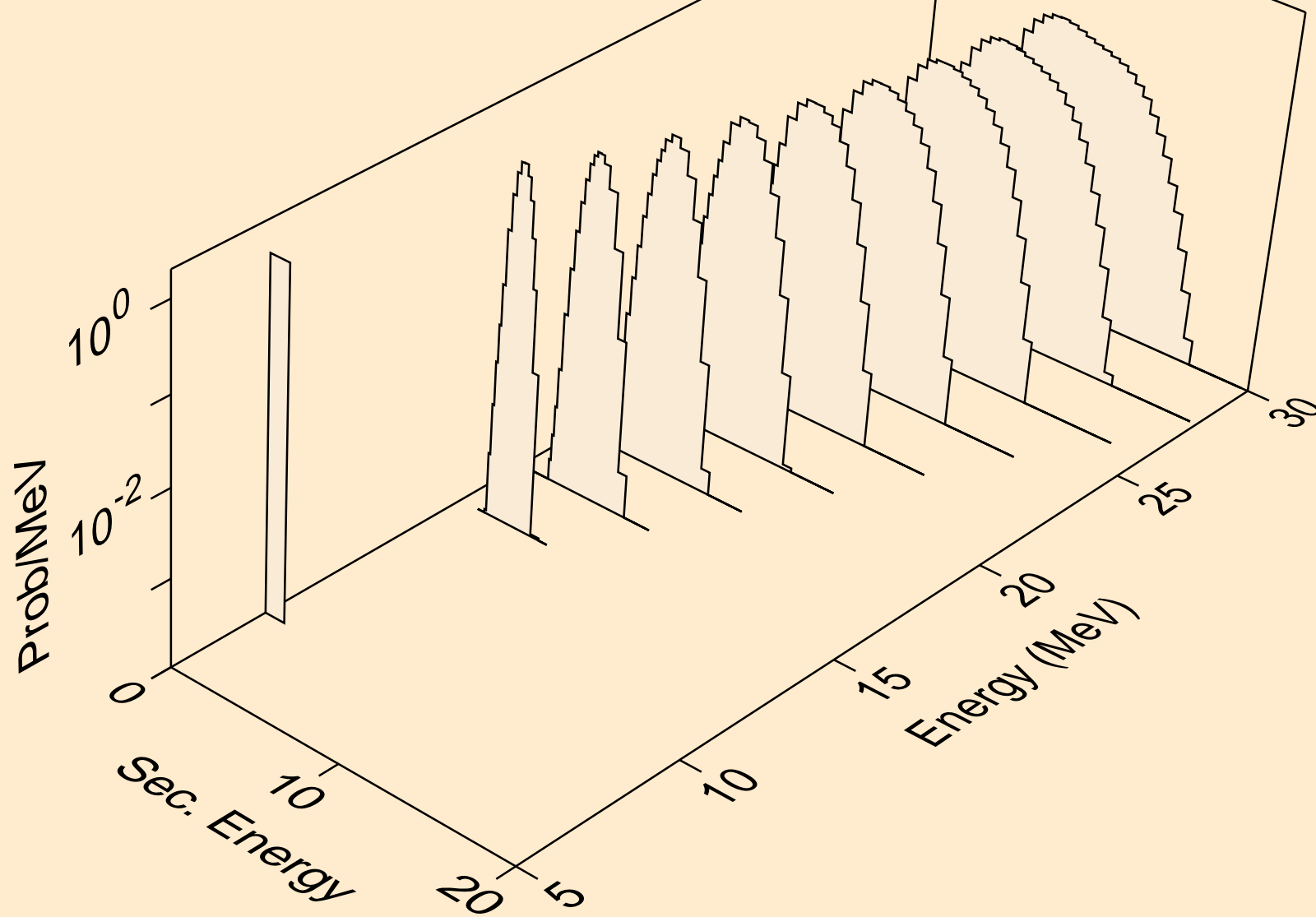
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,2np)



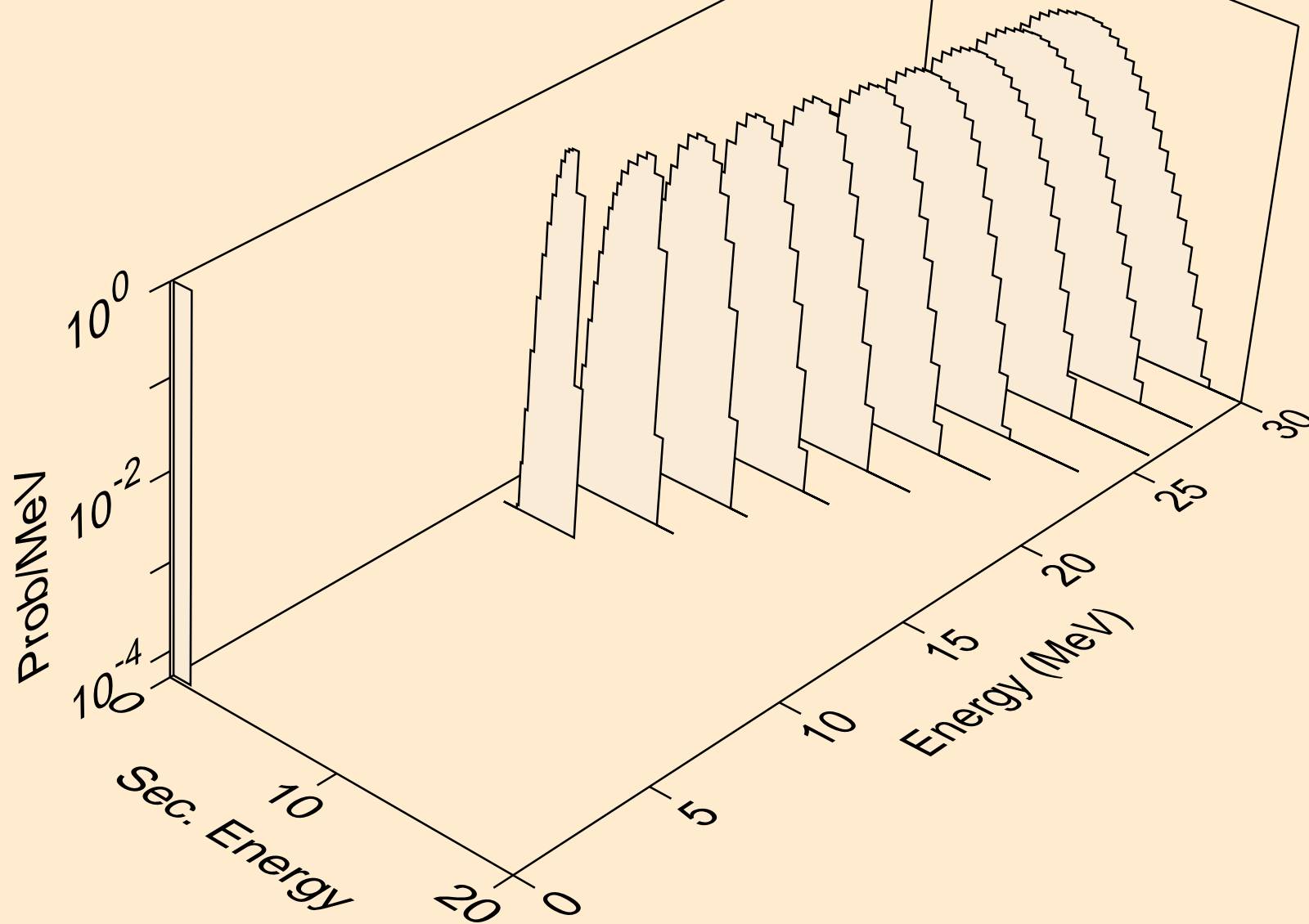
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,3np)



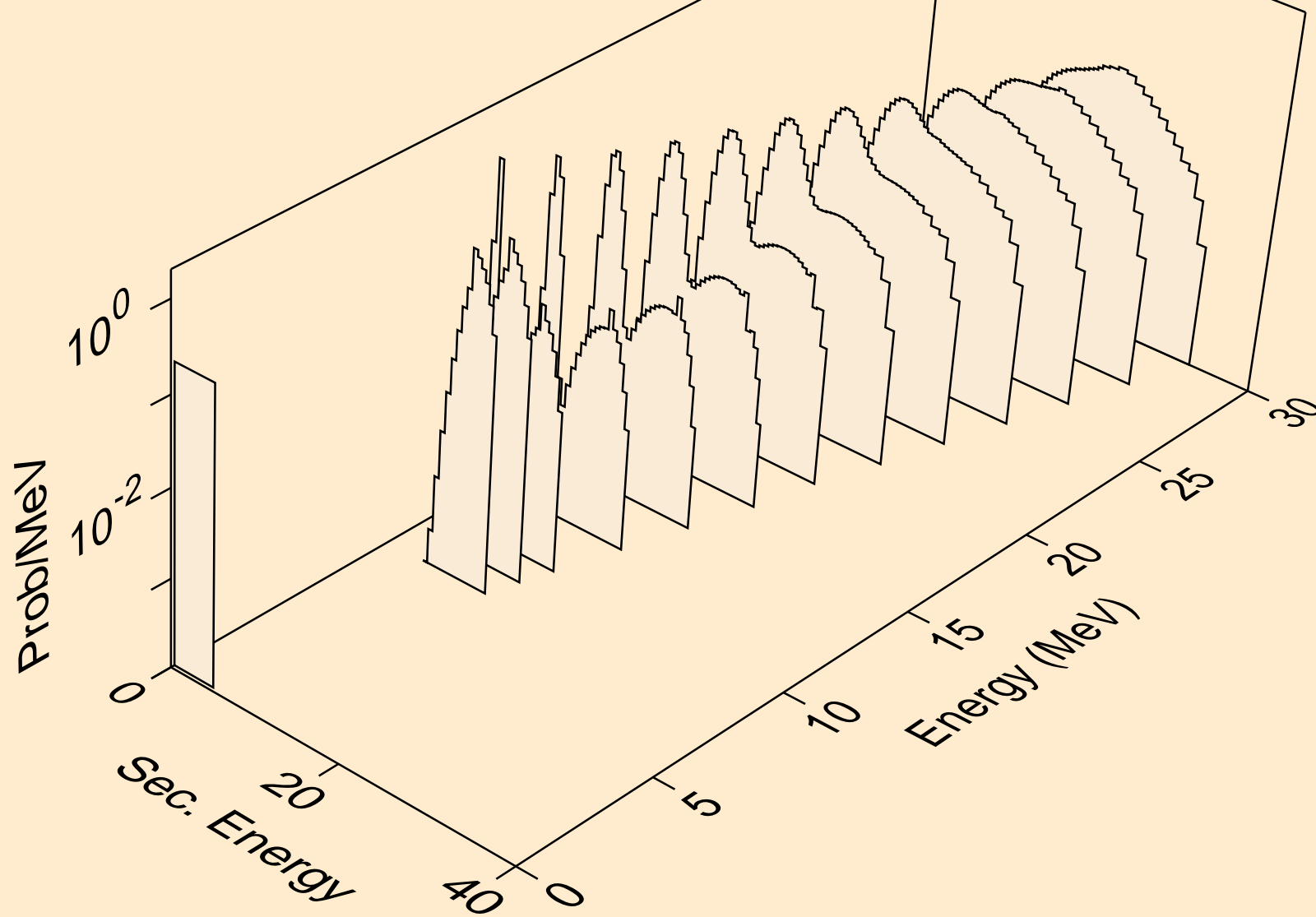
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,n2p)



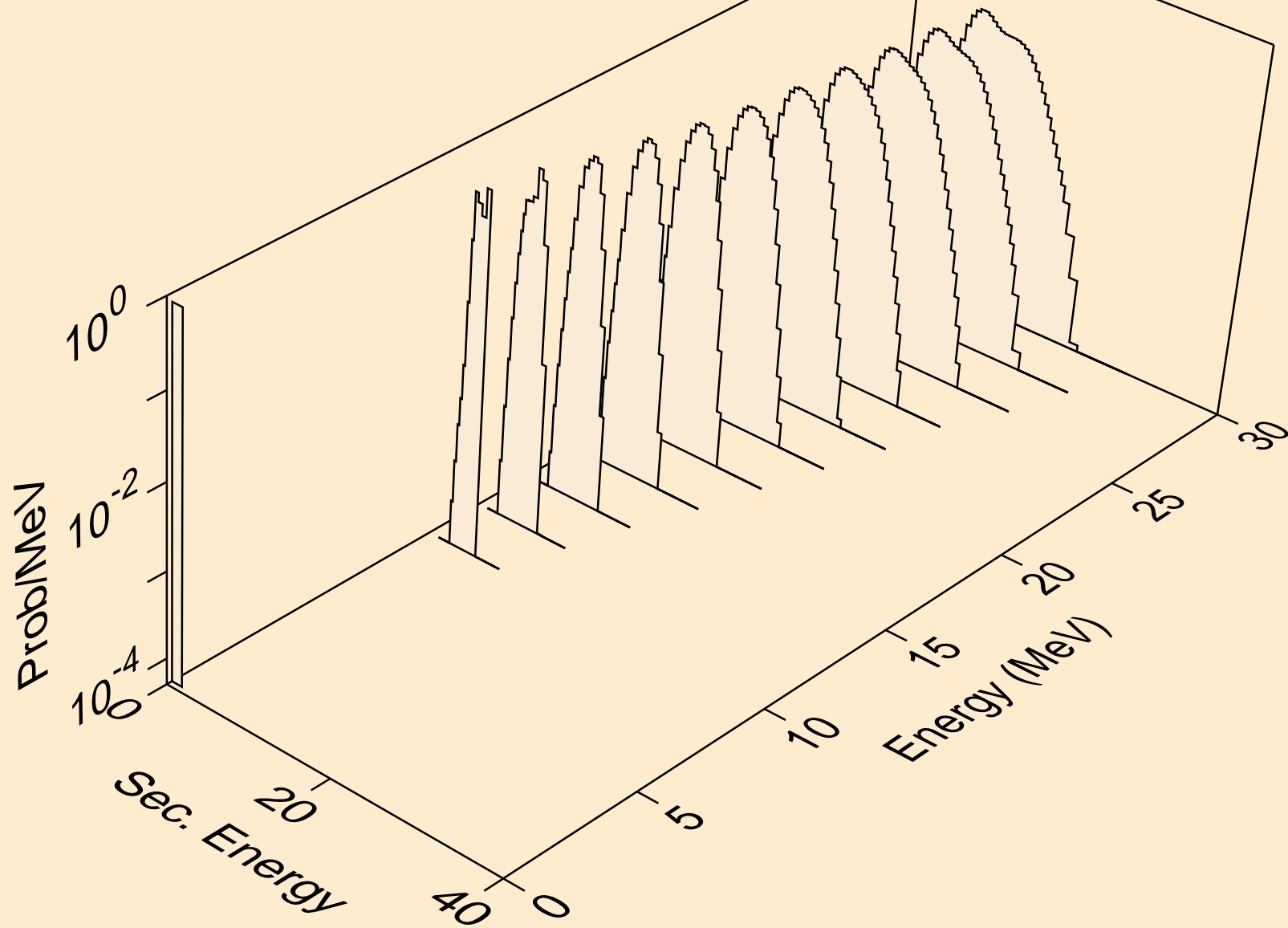
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,npa)



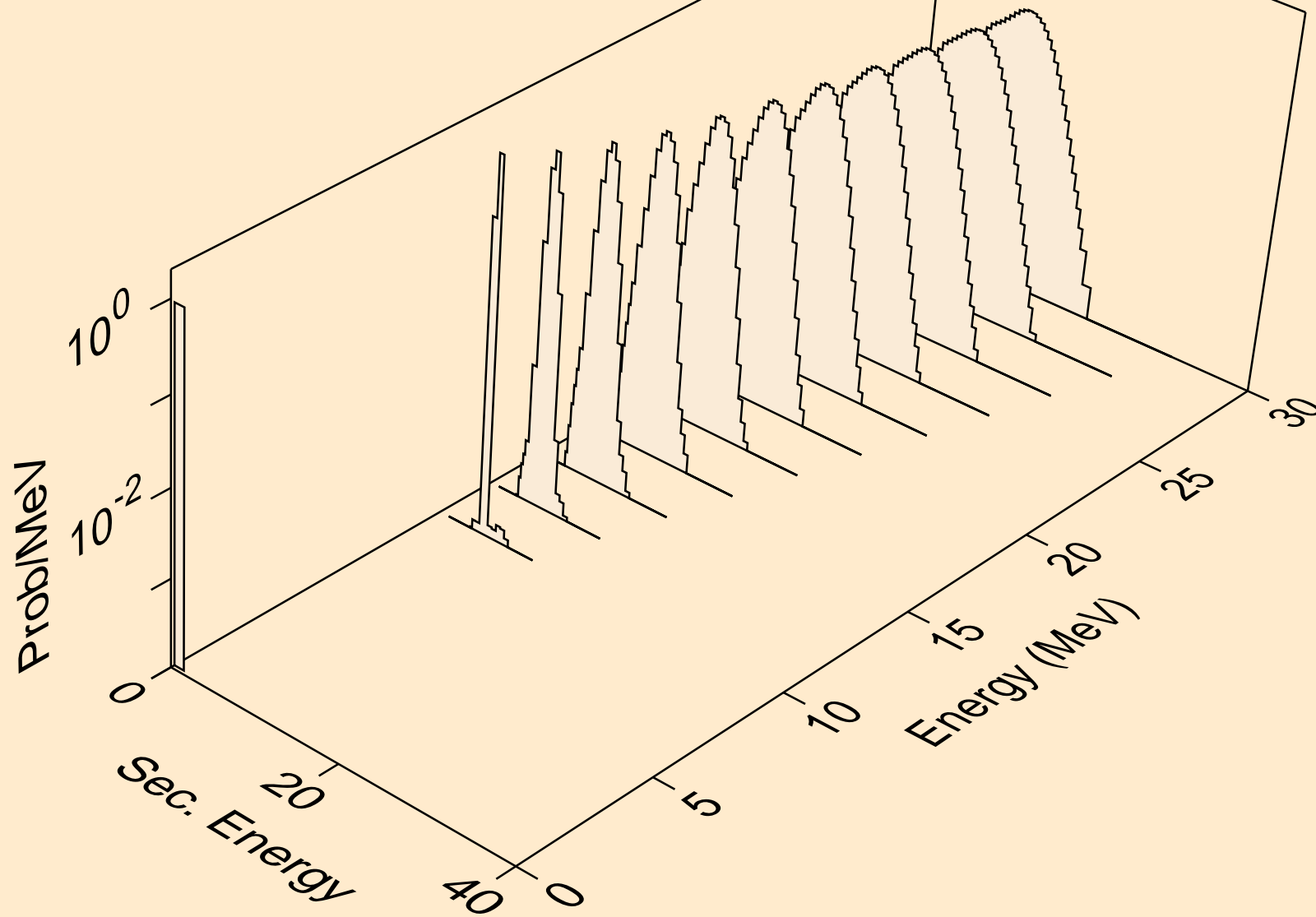
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,p)



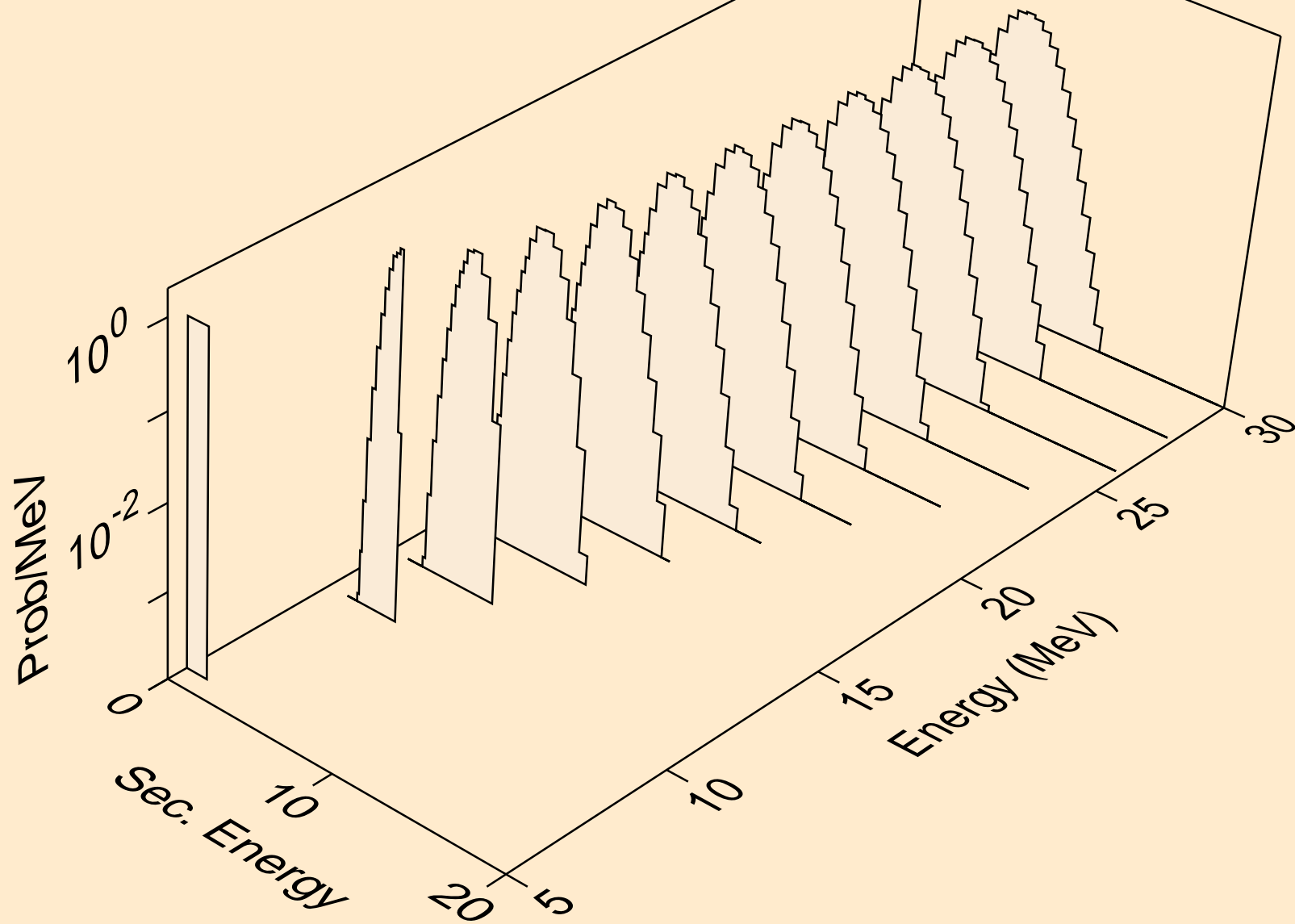
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,2p)



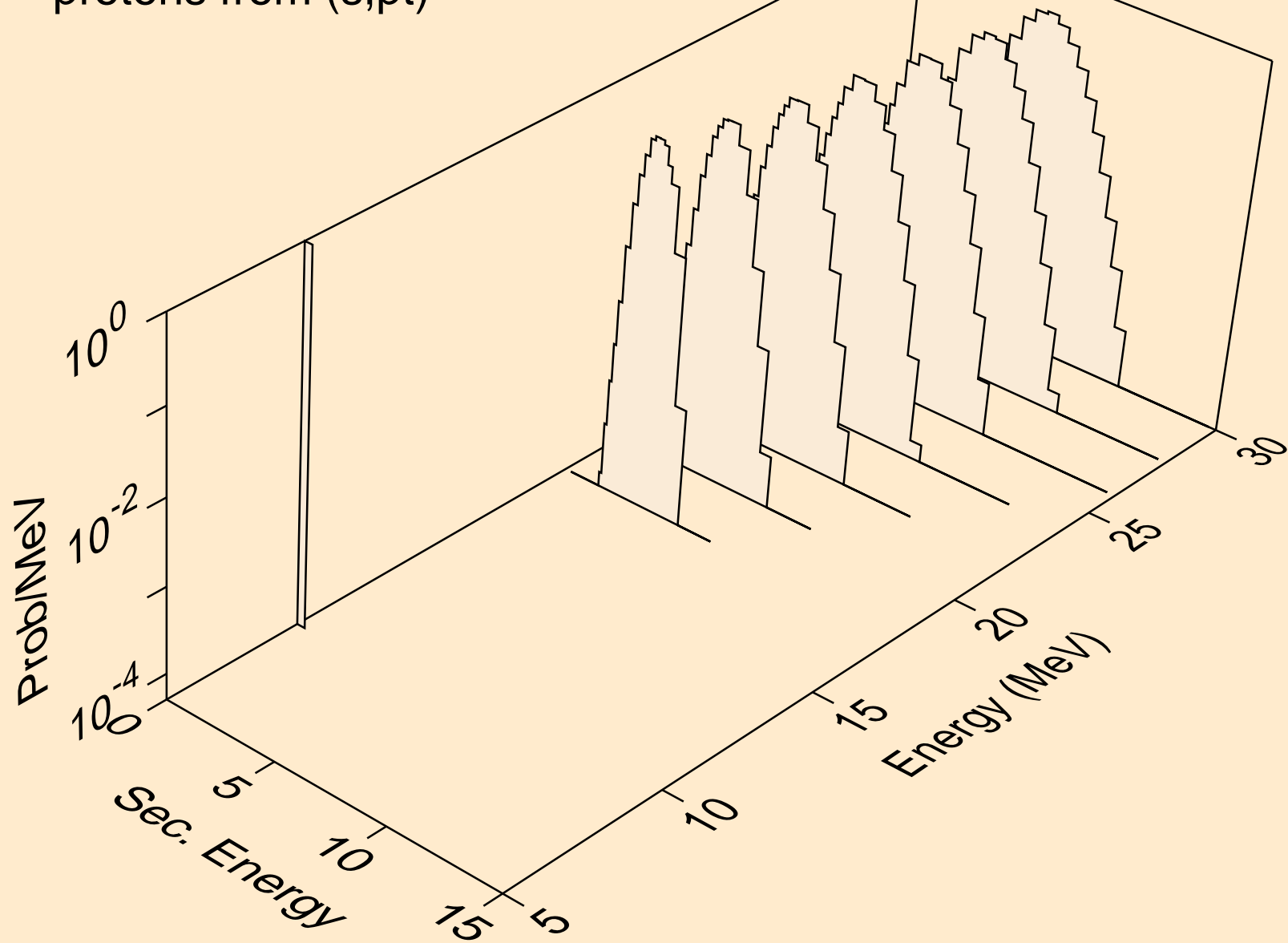
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,pa)



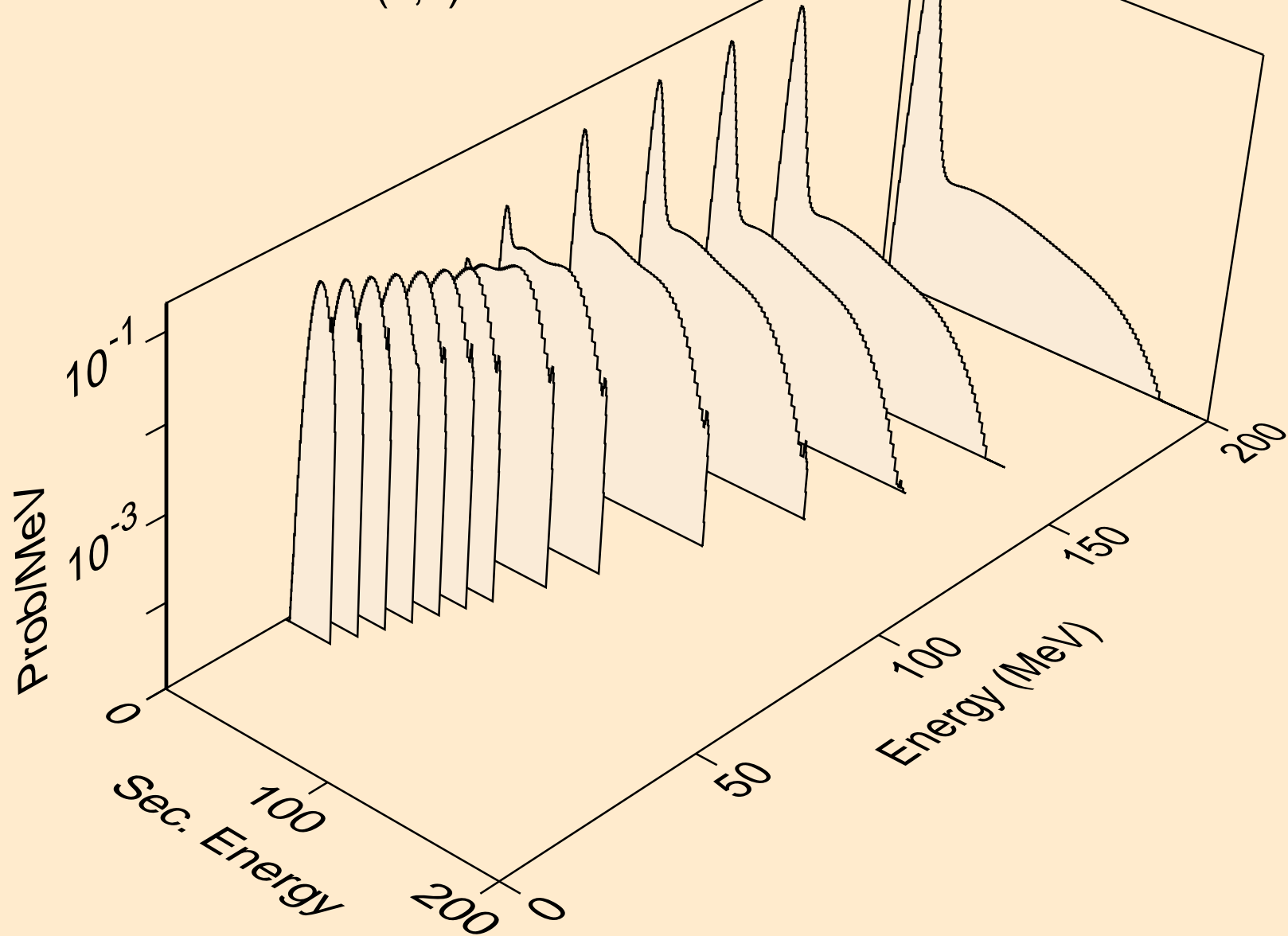
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,pd)



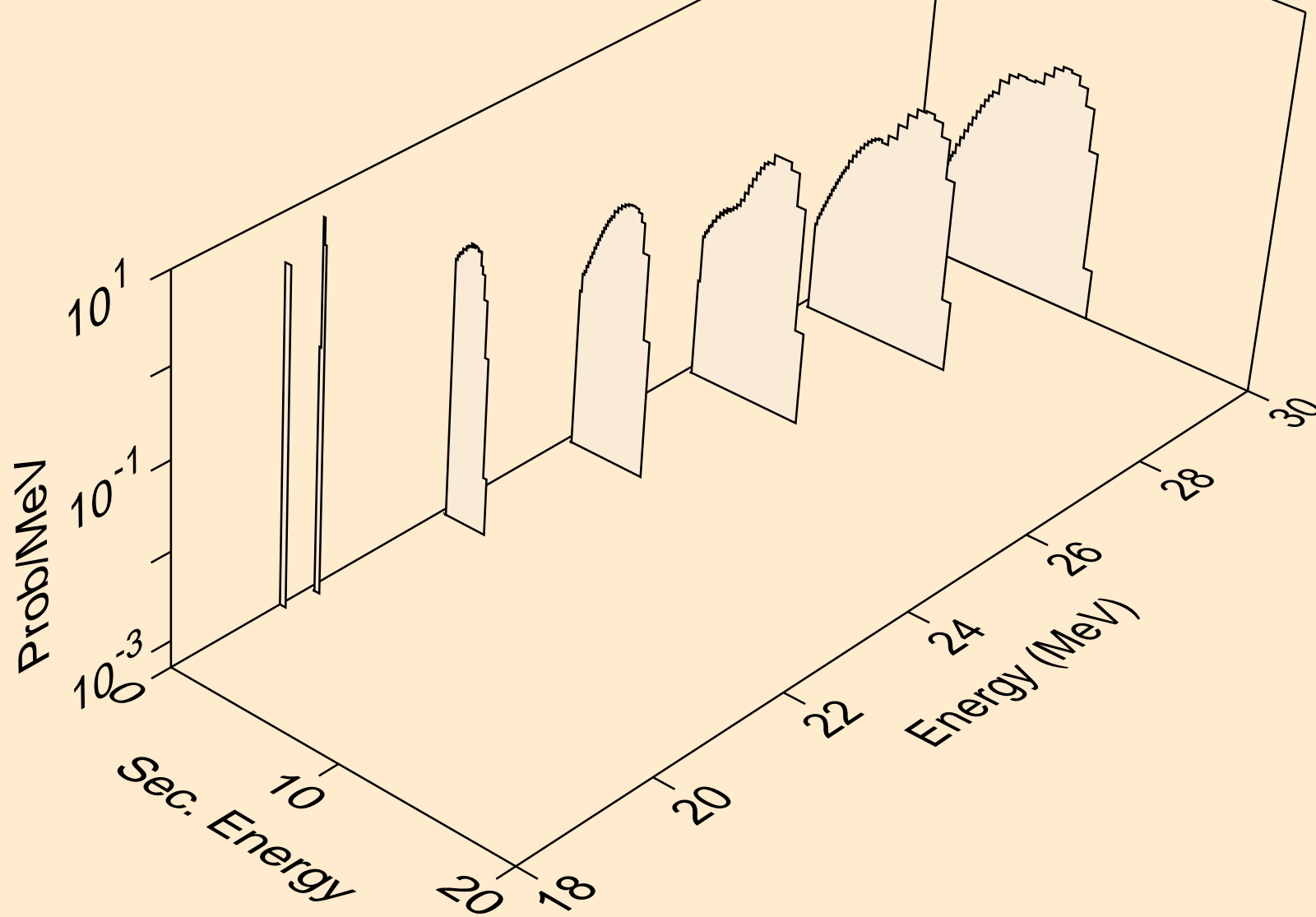
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
protons from (s,pt)



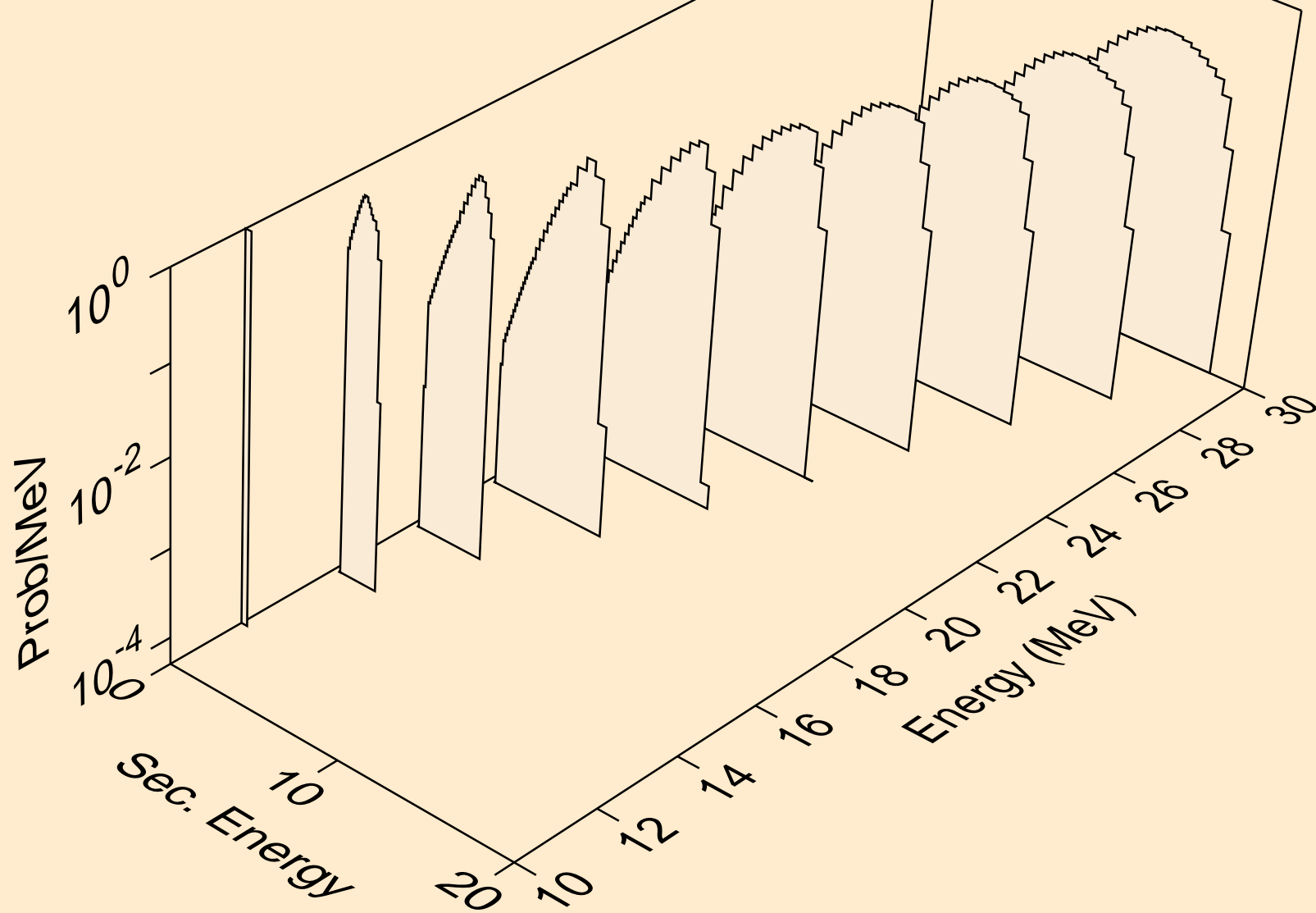
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,x)



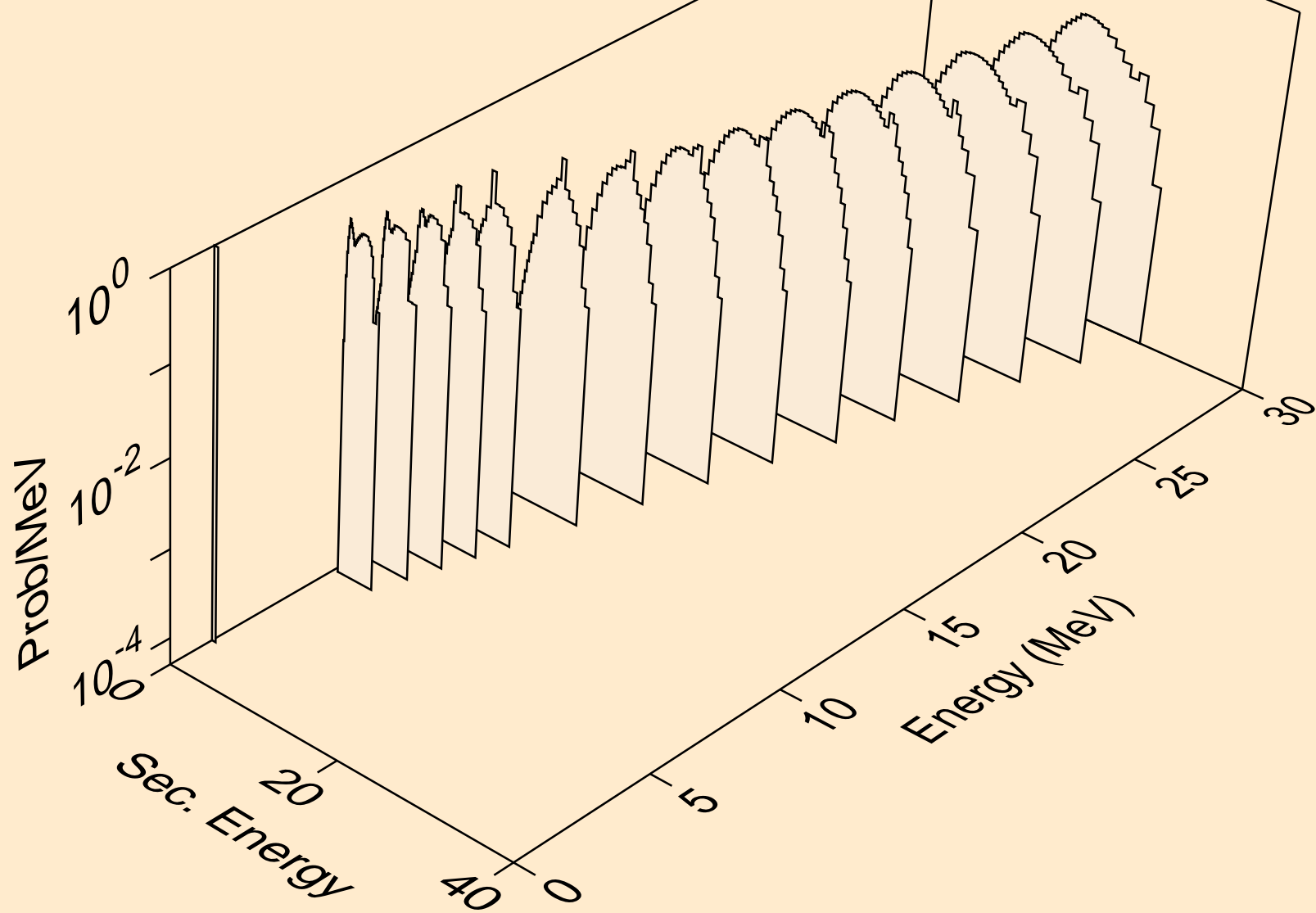
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,2nd)



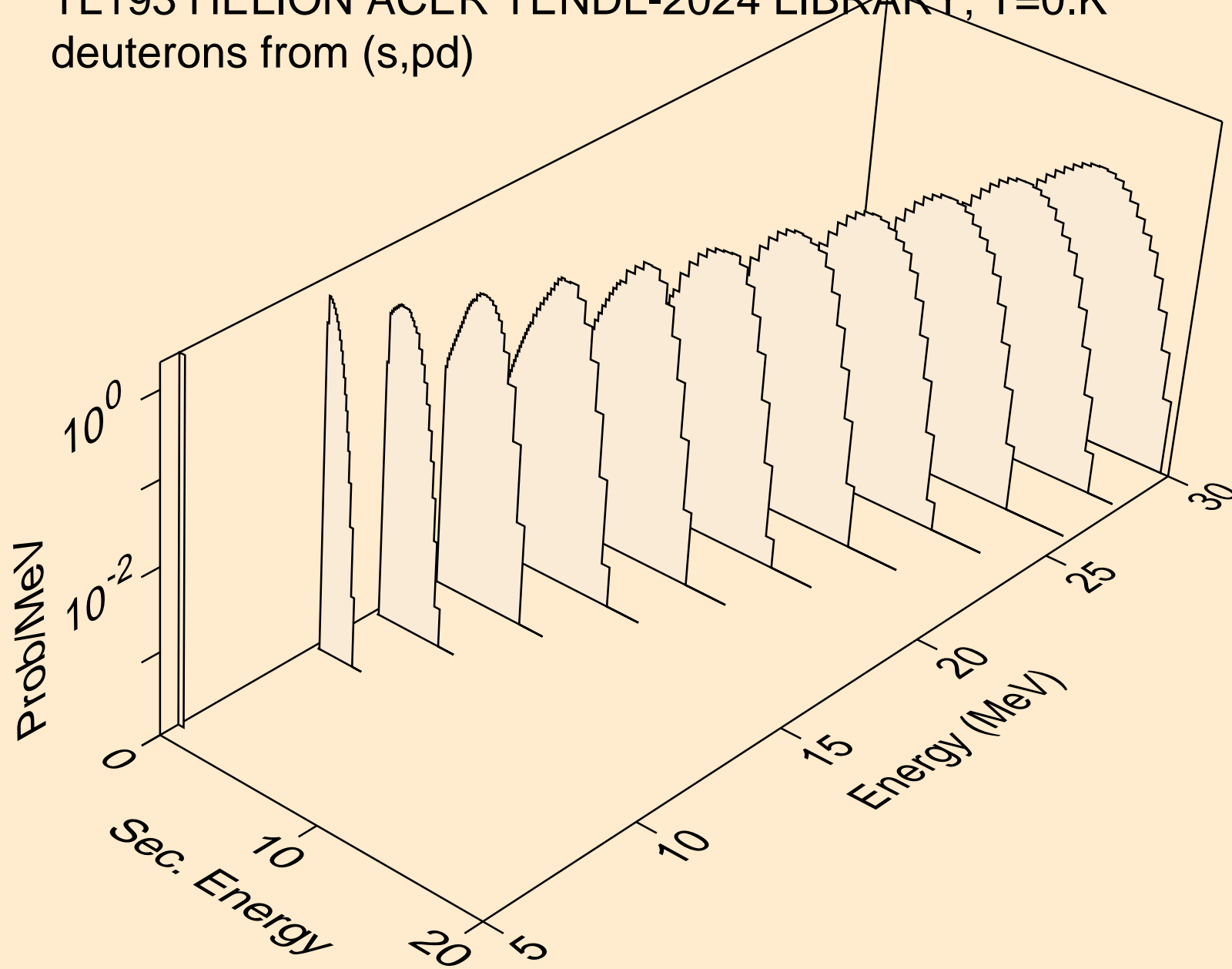
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,n\*)d



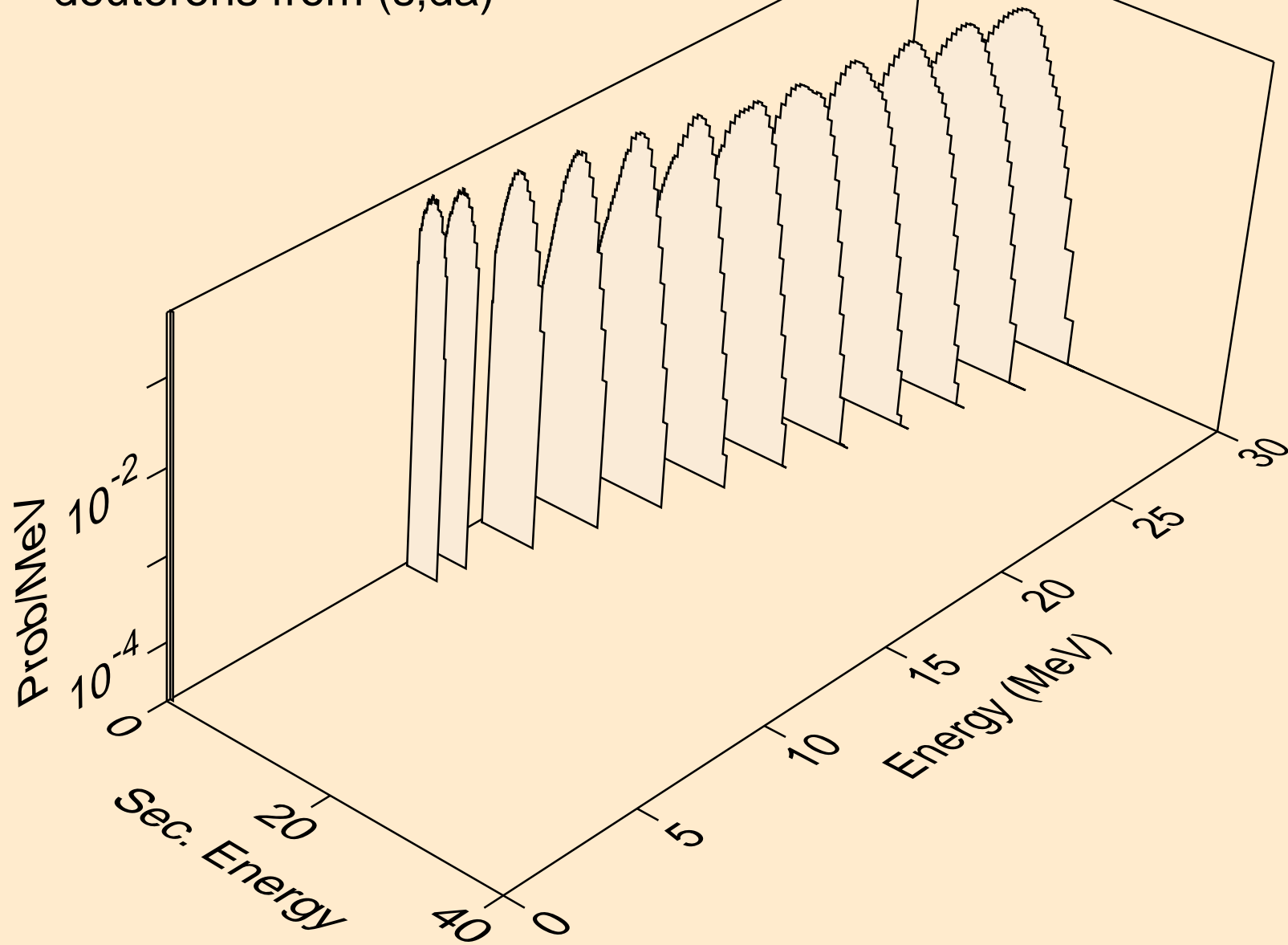
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,d)



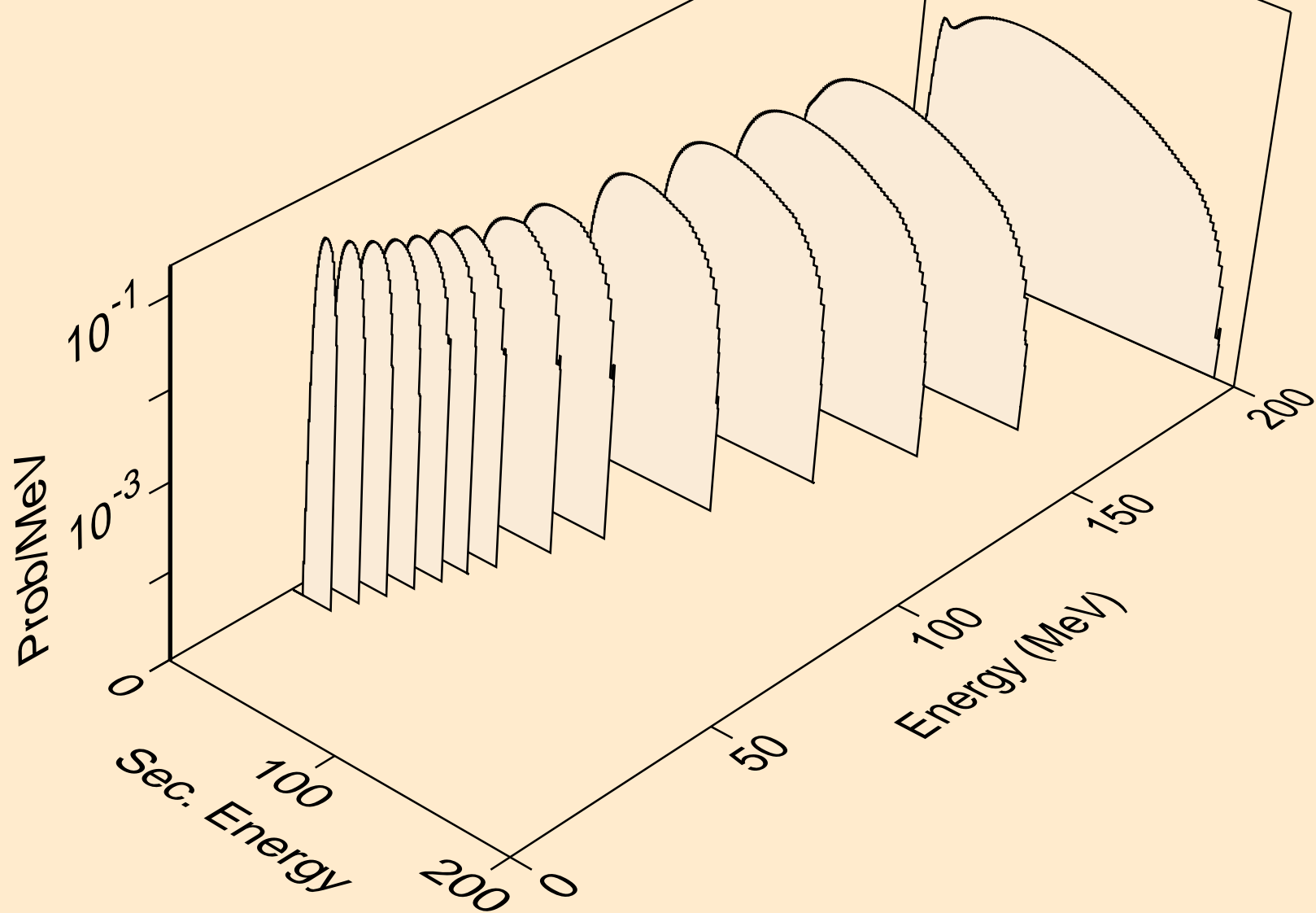
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,pd)



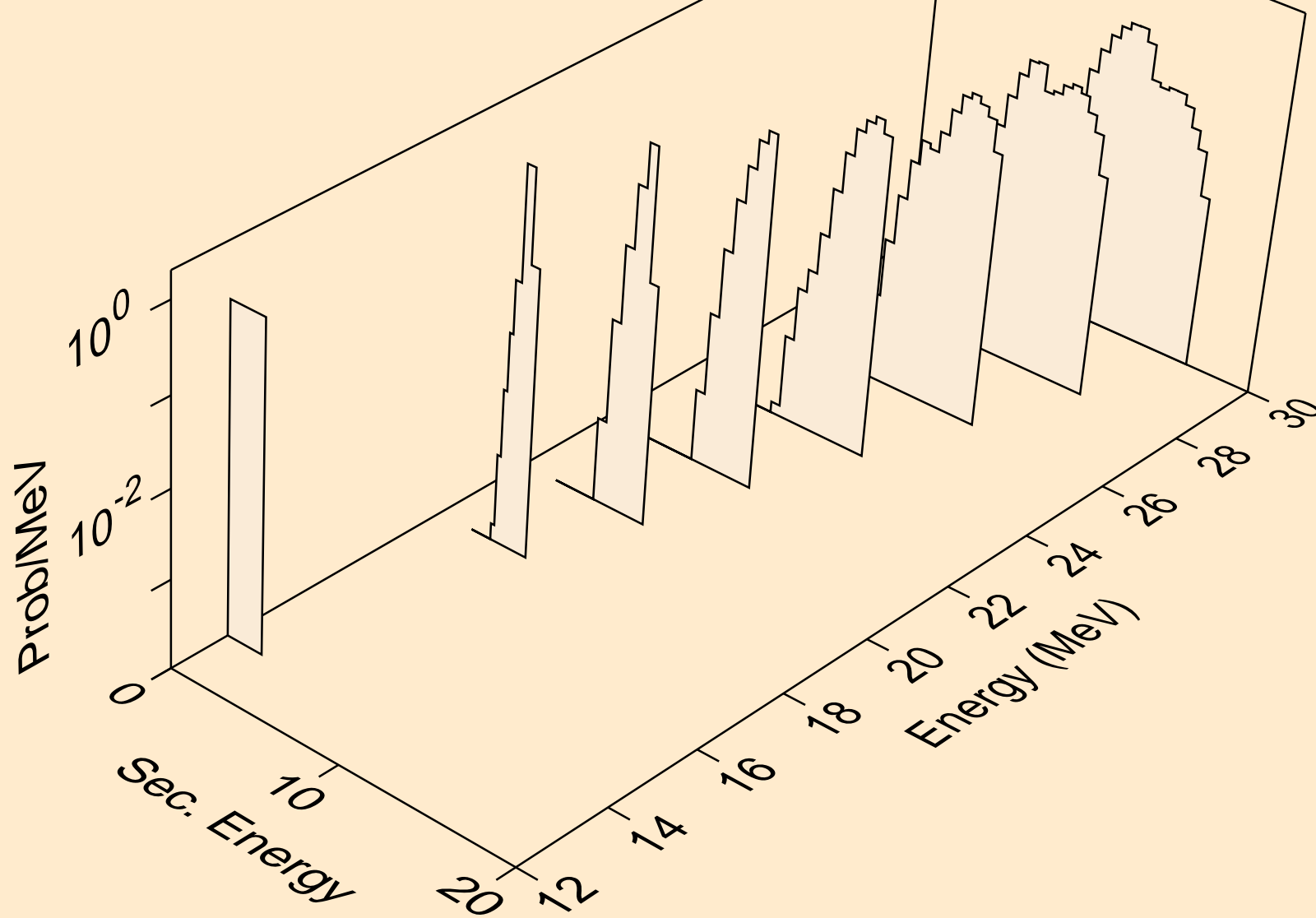
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
deuterons from (s,da)



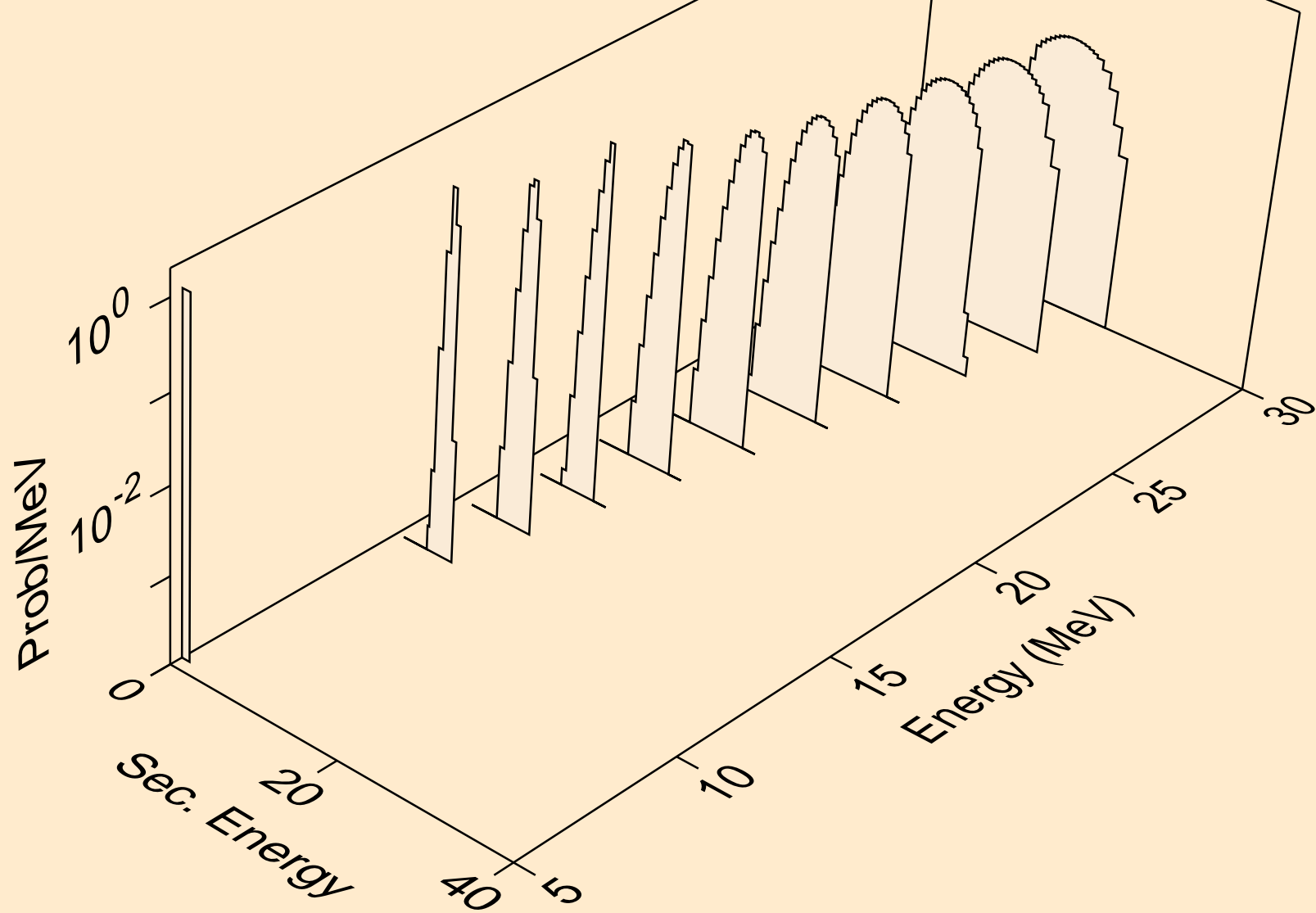
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (s,x)



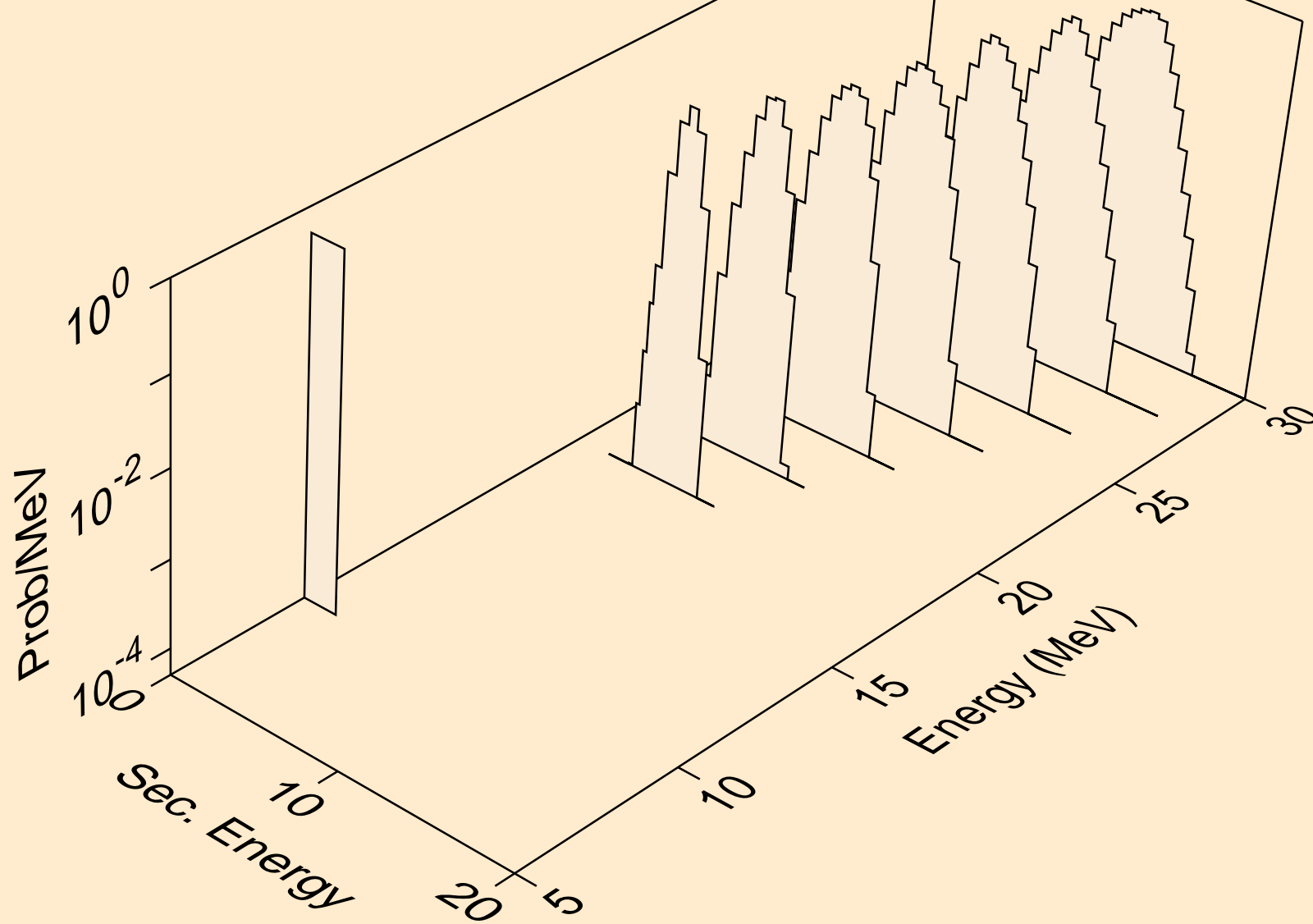
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (s,n\*)t



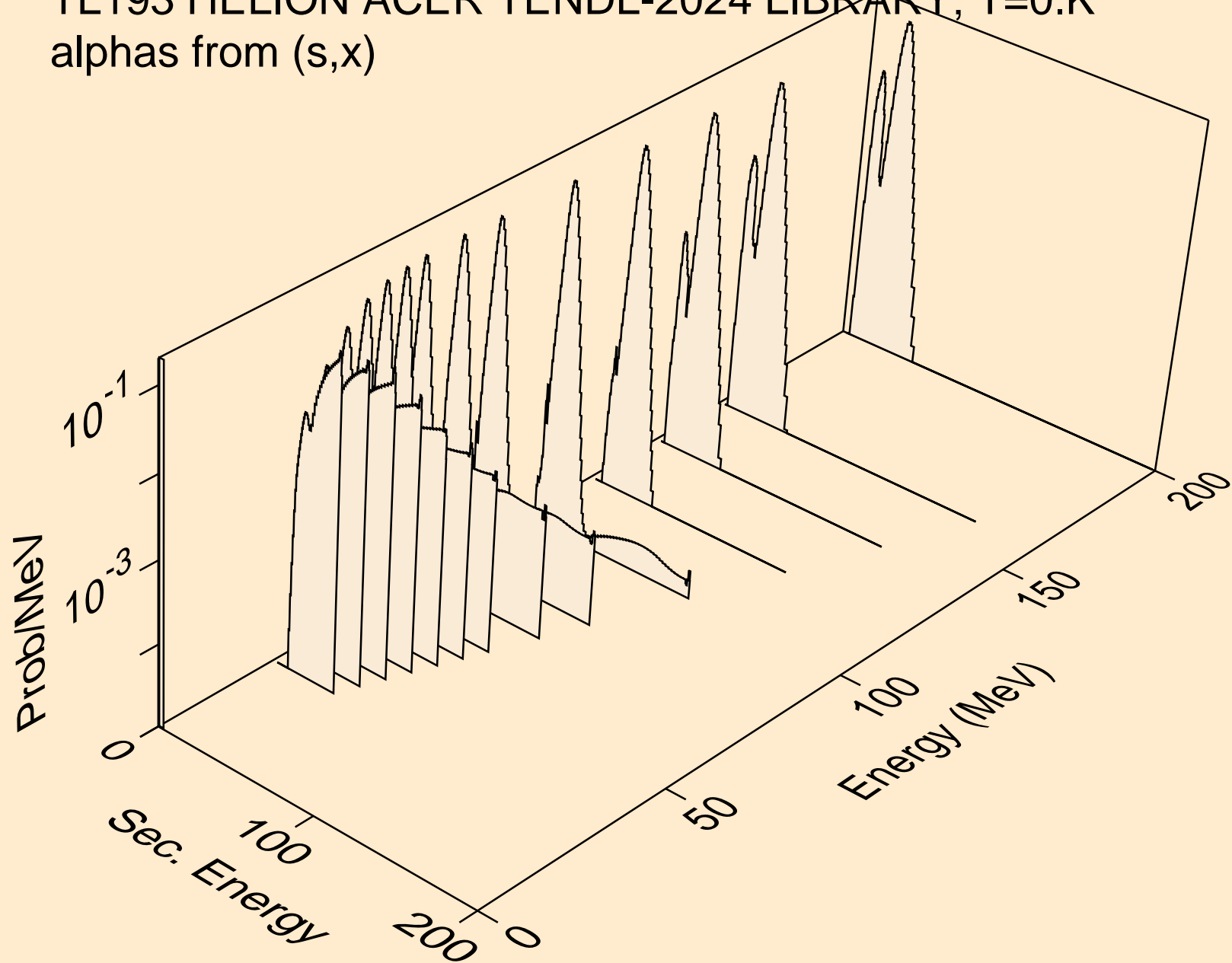
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (s,t)



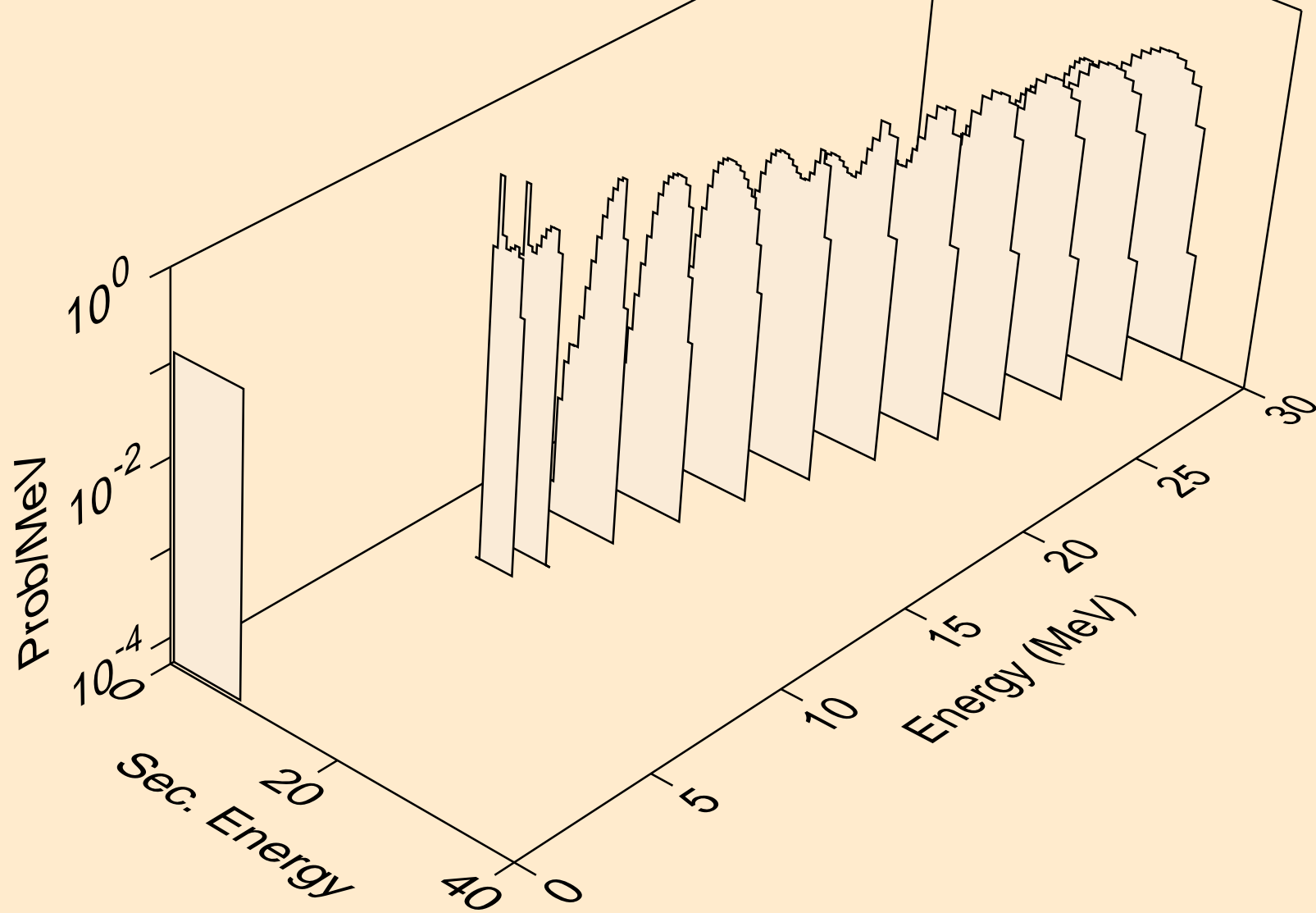
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
tritons from (s,pt)



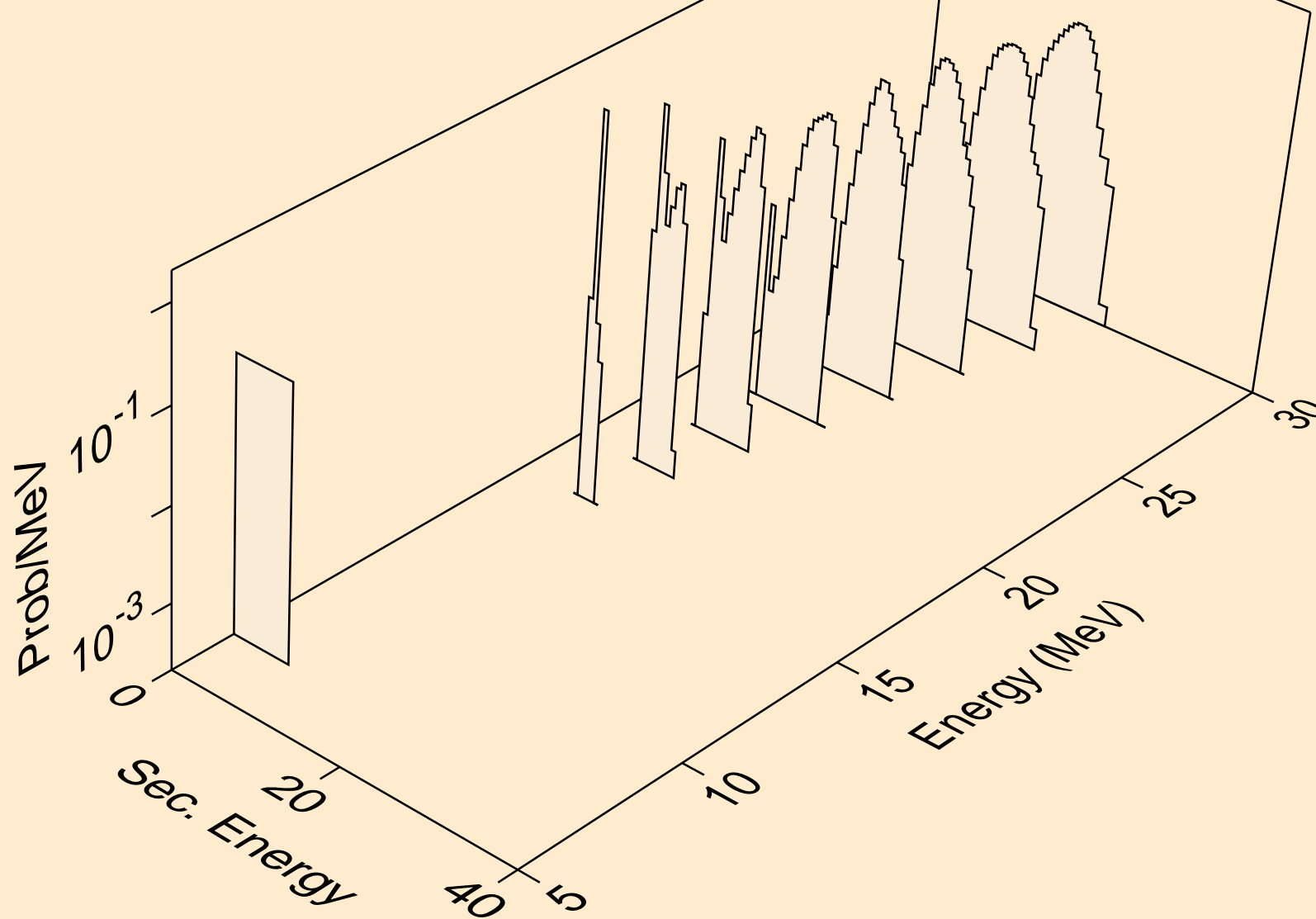
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,x)



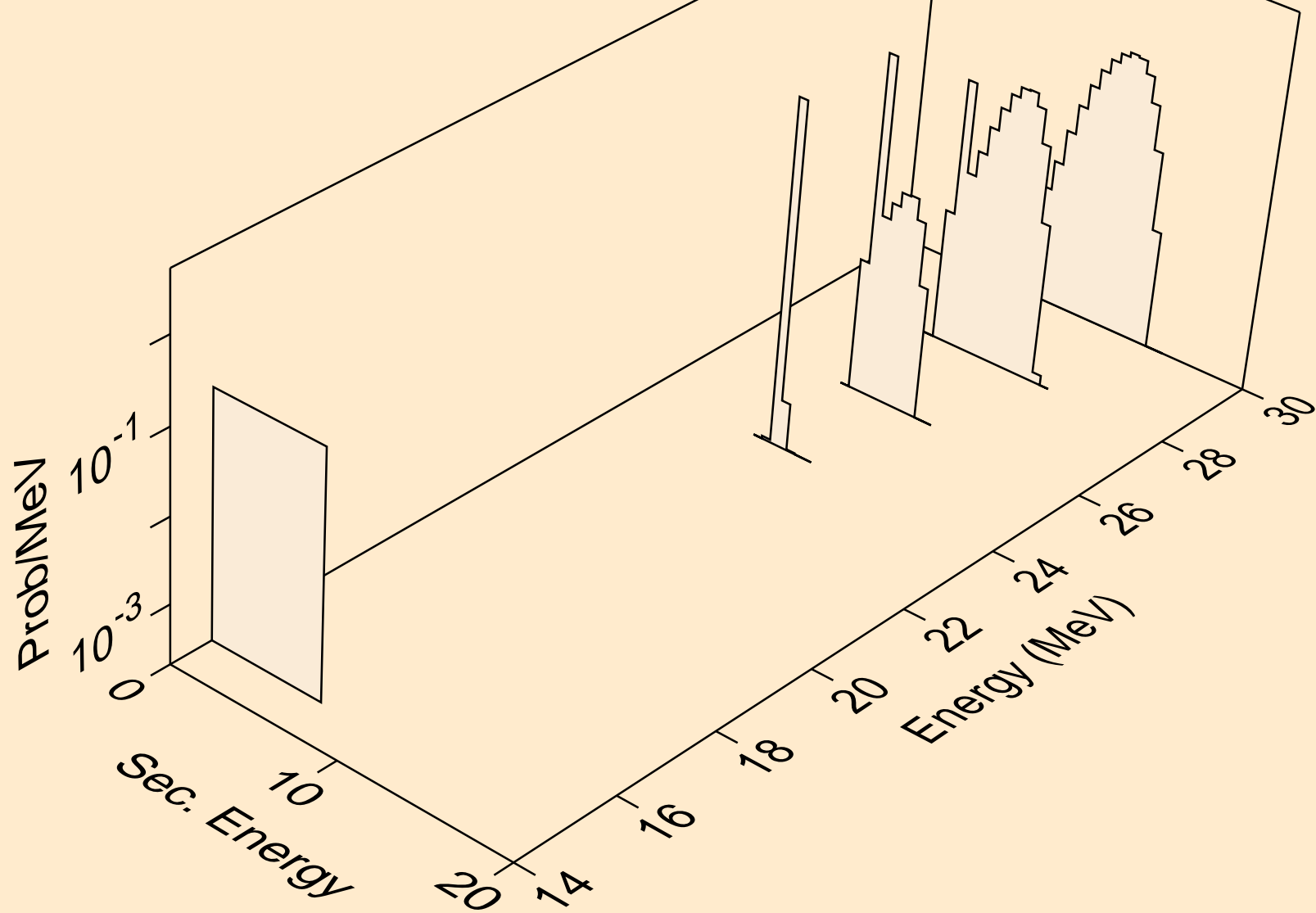
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,n\*)a



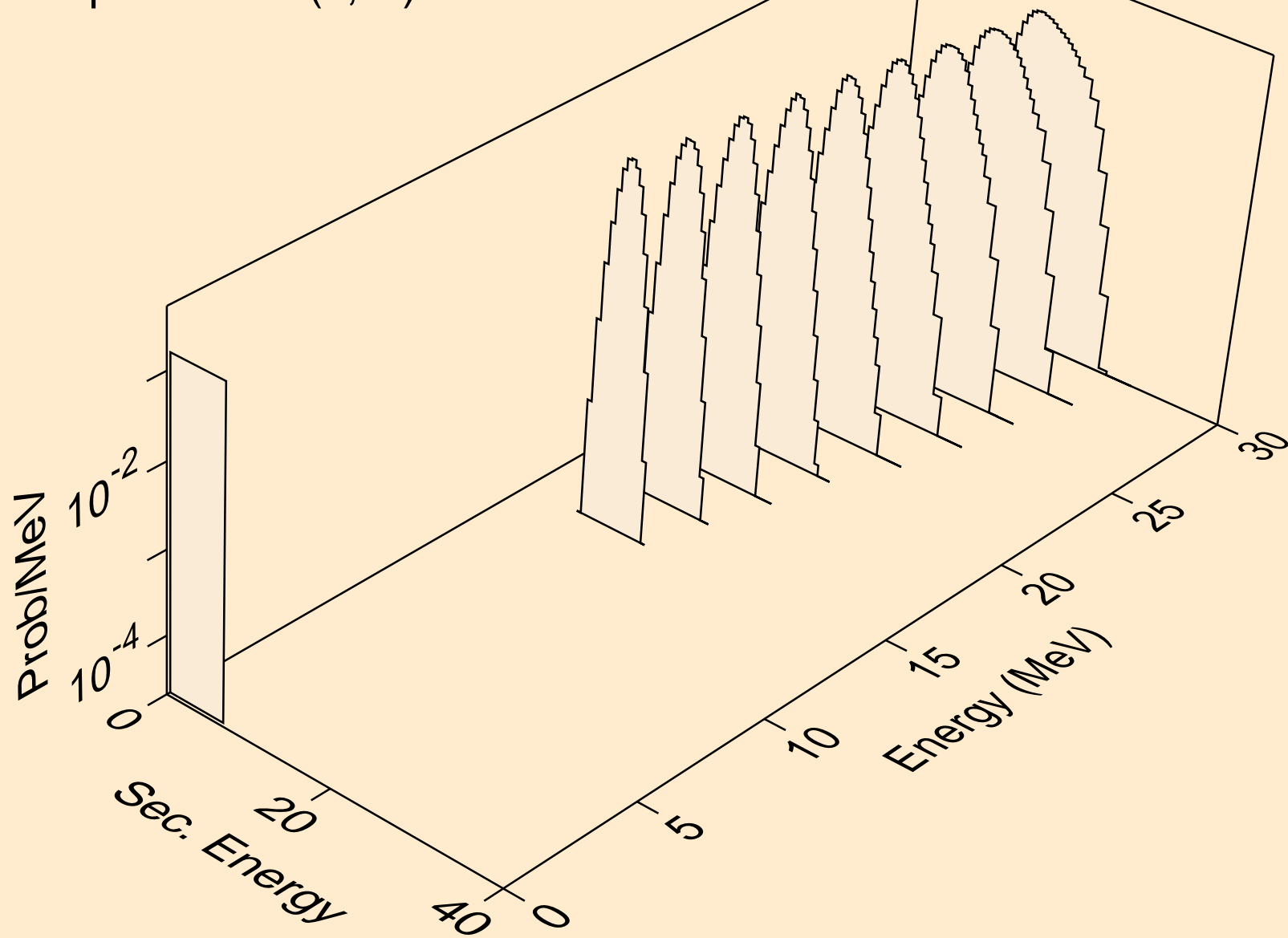
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,2n)a



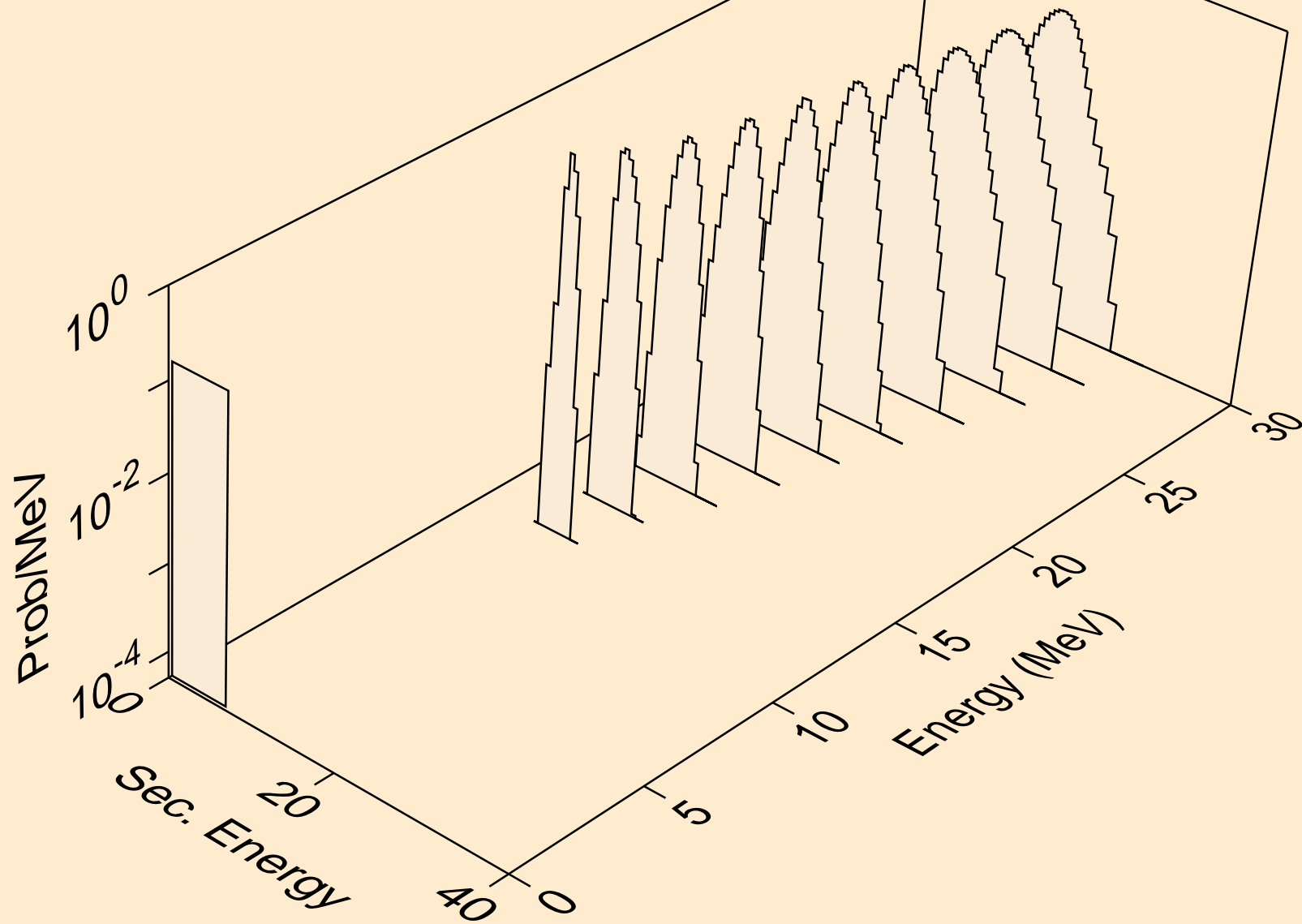
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,3n)a



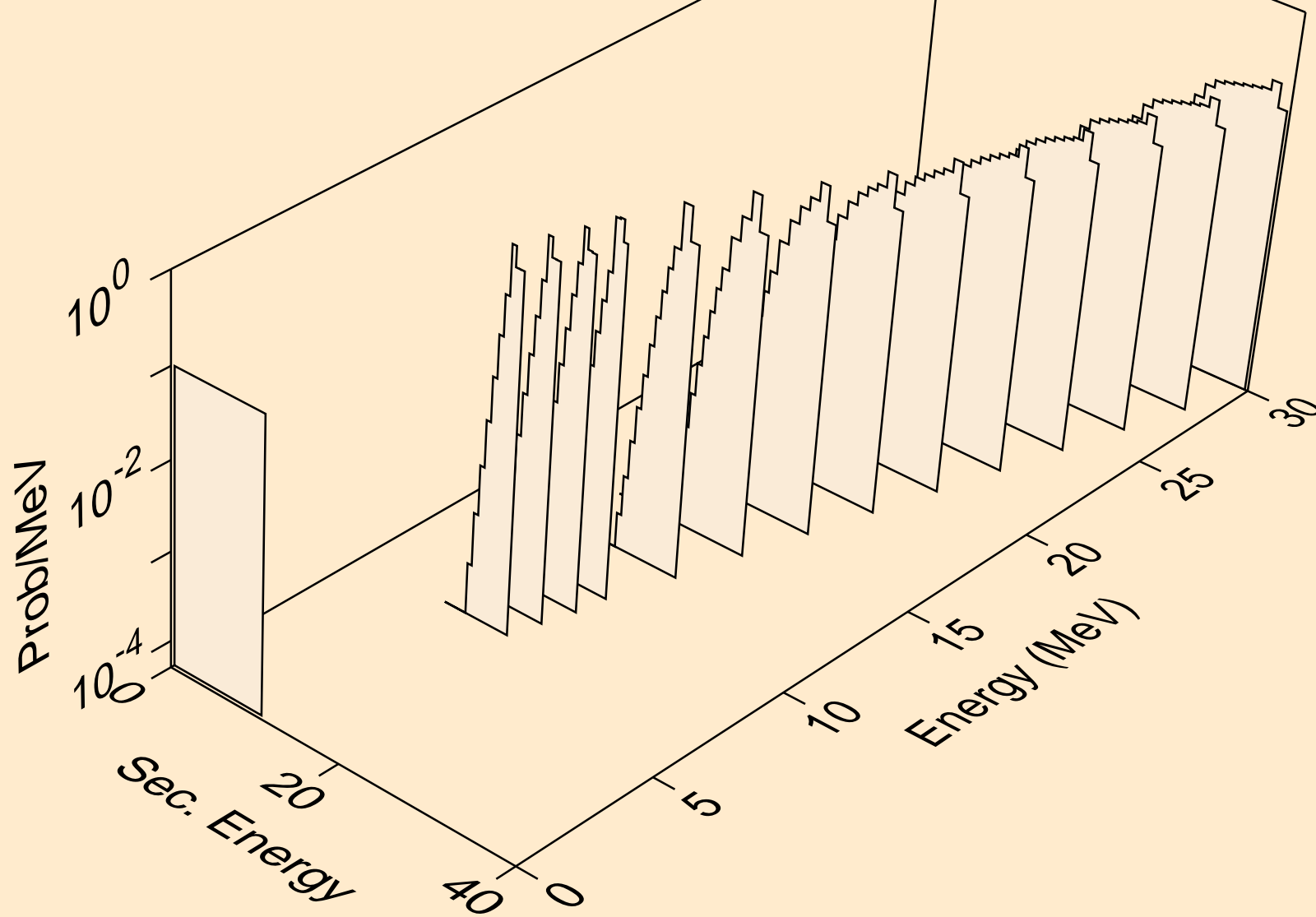
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,n\*)2a



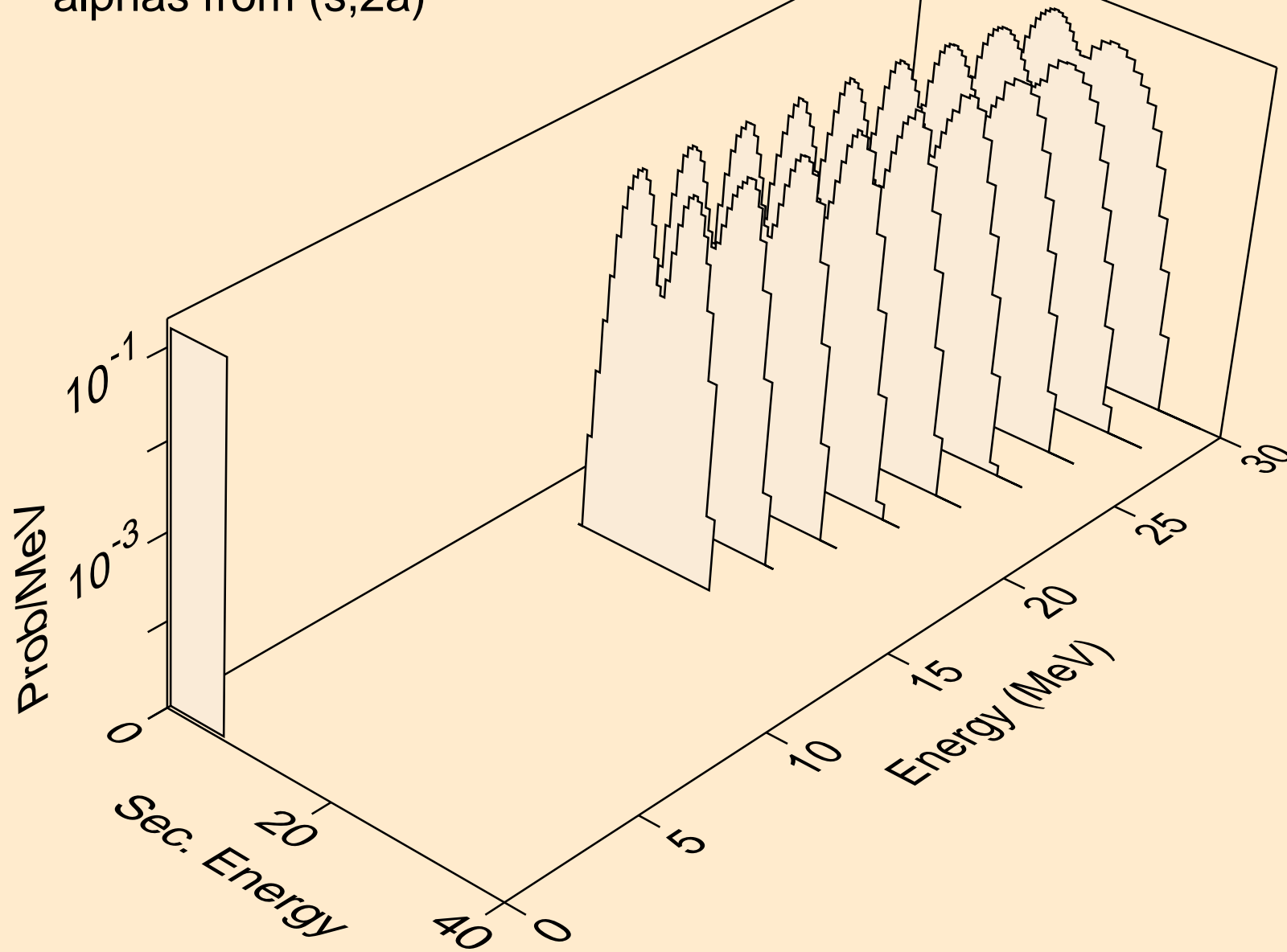
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,npa)



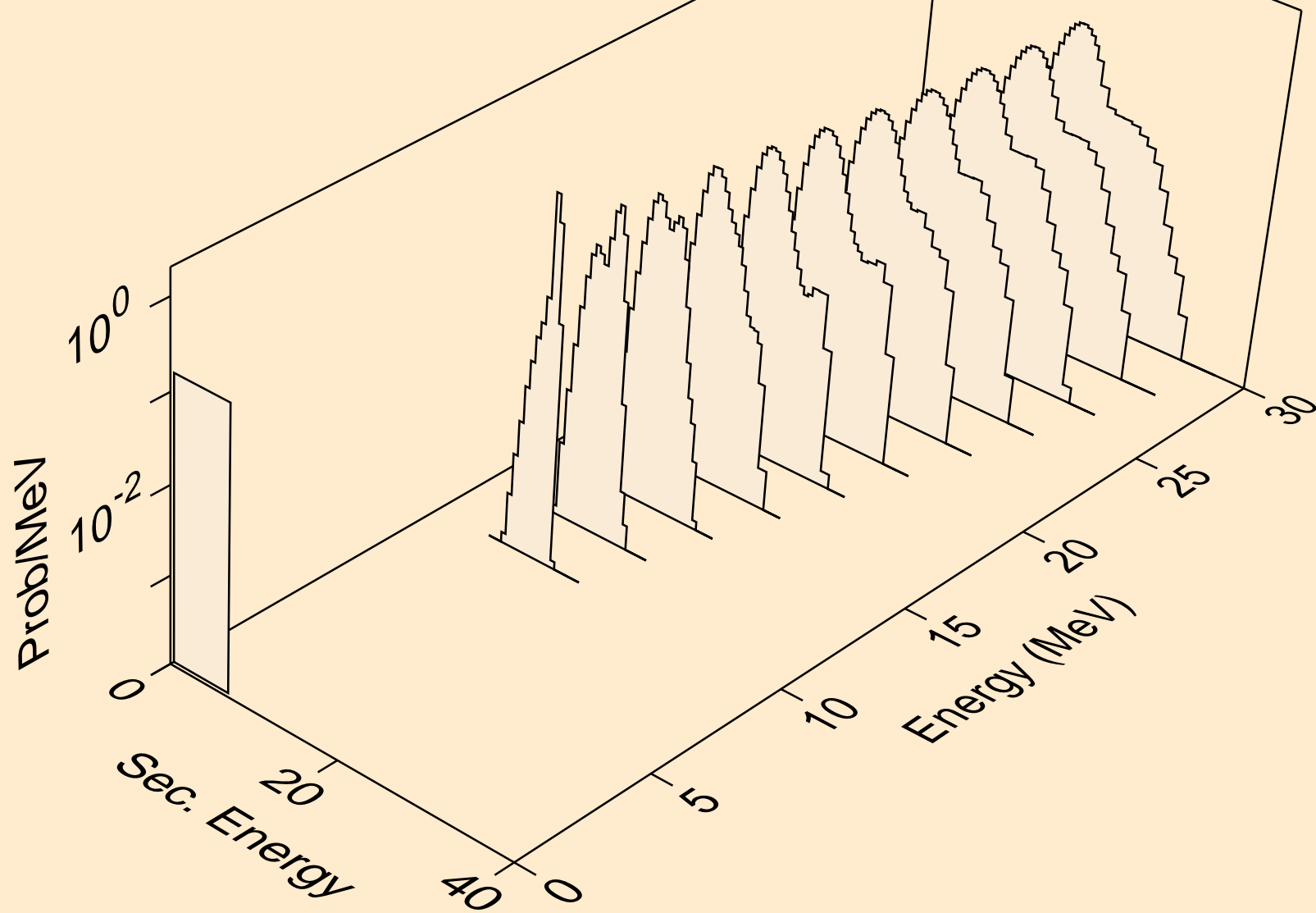
TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,a)



TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,2a)



TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,pa)



TL193 HELION ACER TENDL-2024 LIBRARY; T=0.K  
alphas from (s,da)

