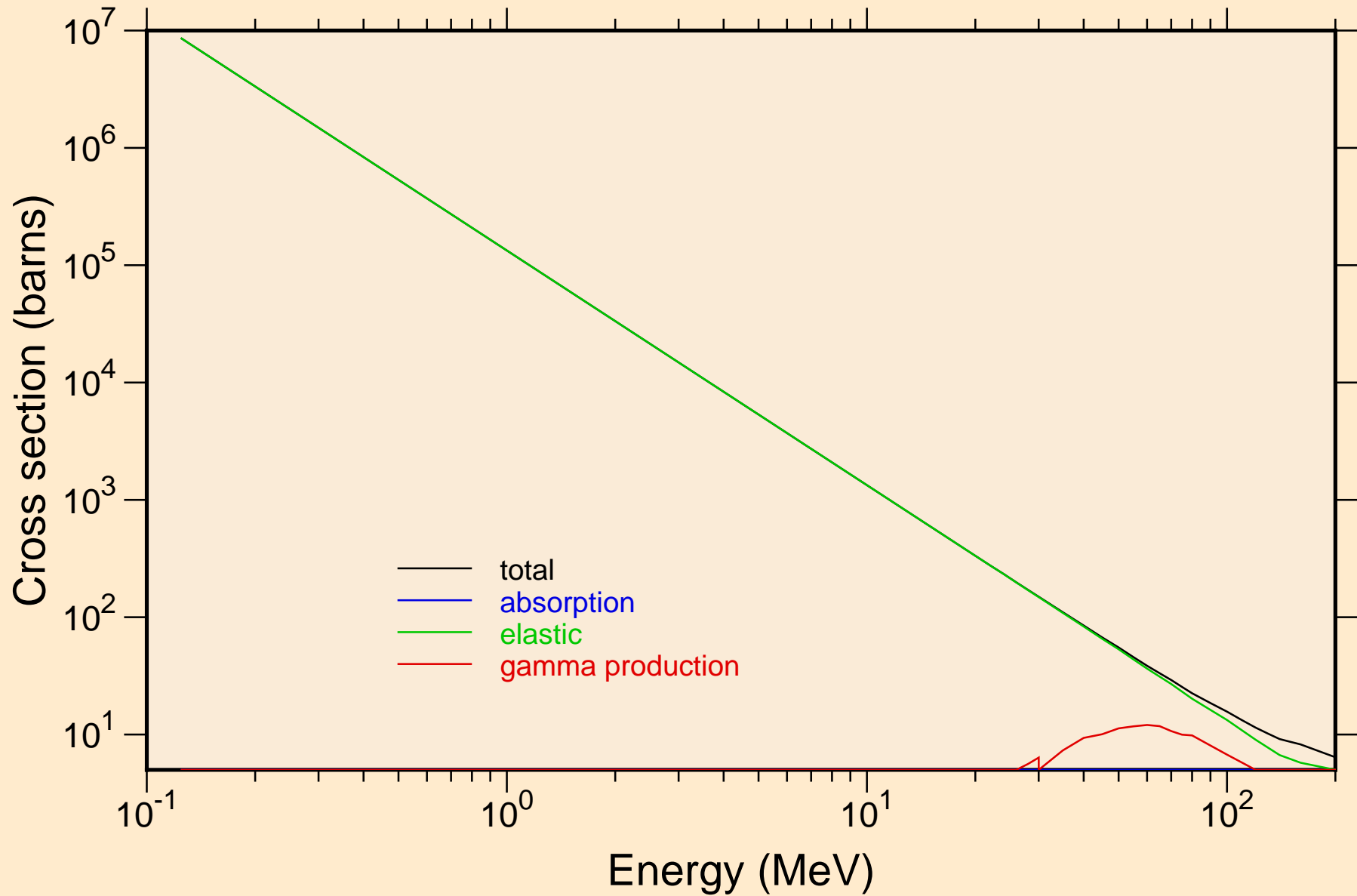
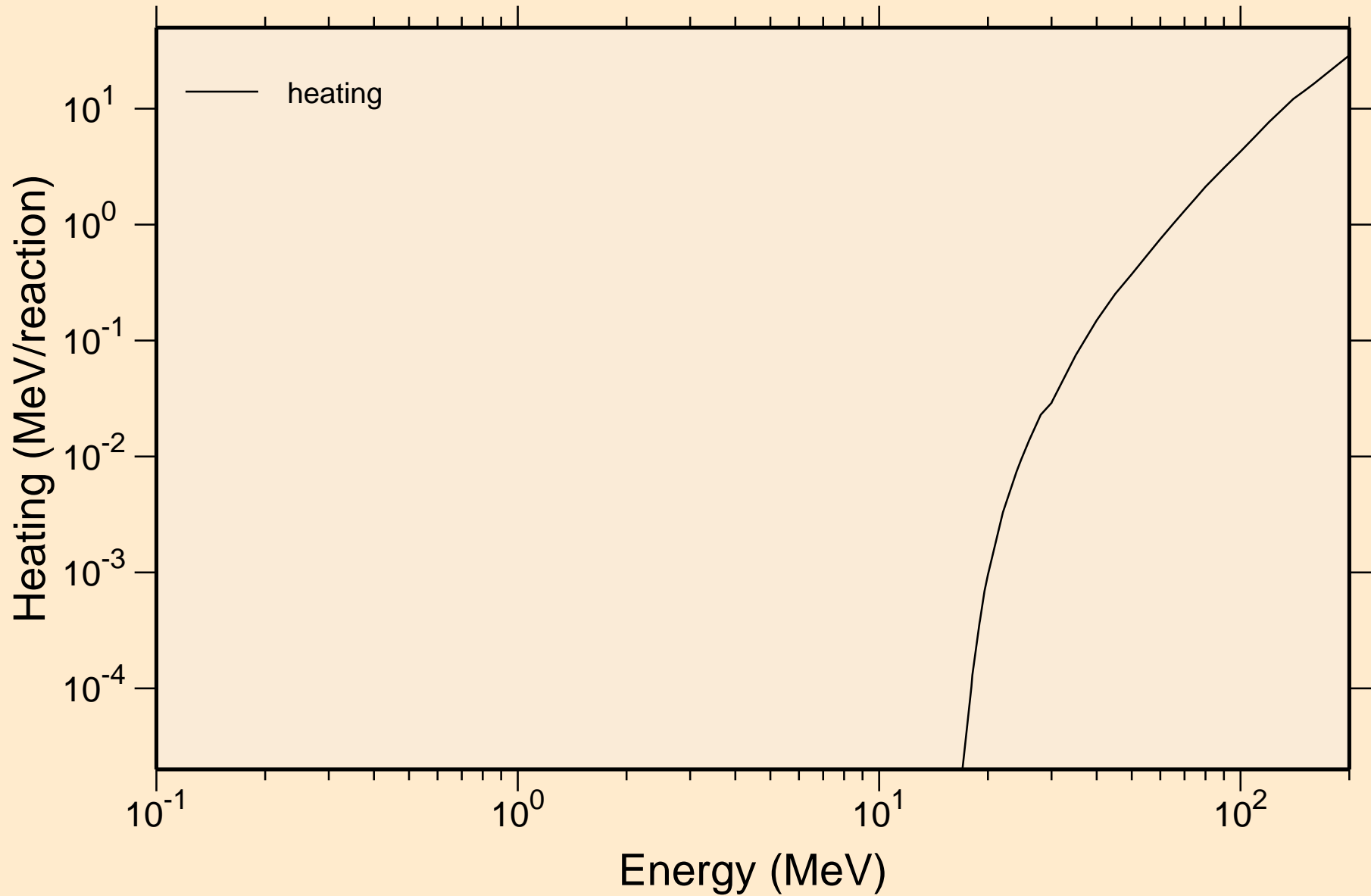


# HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections

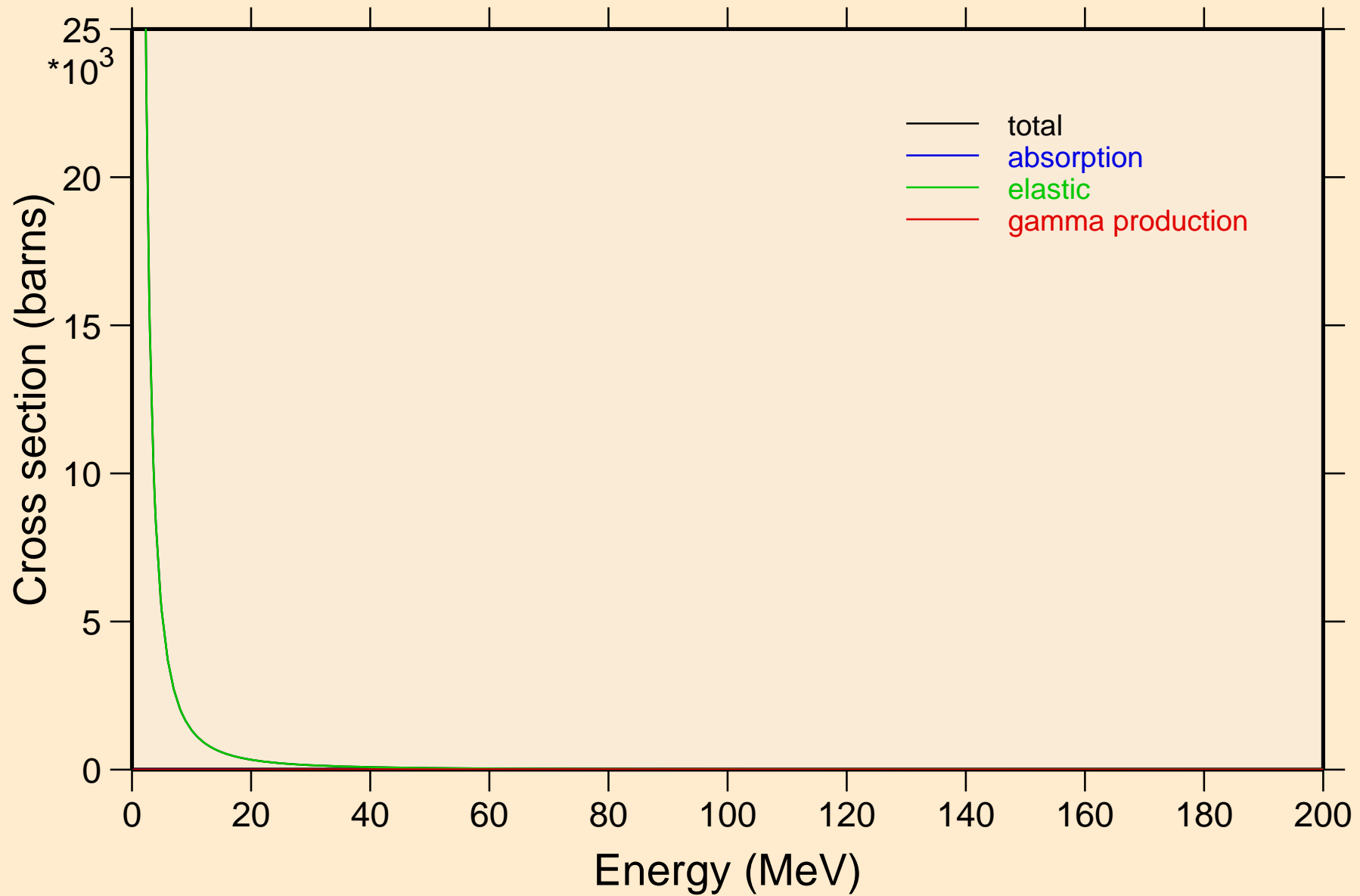


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Heating



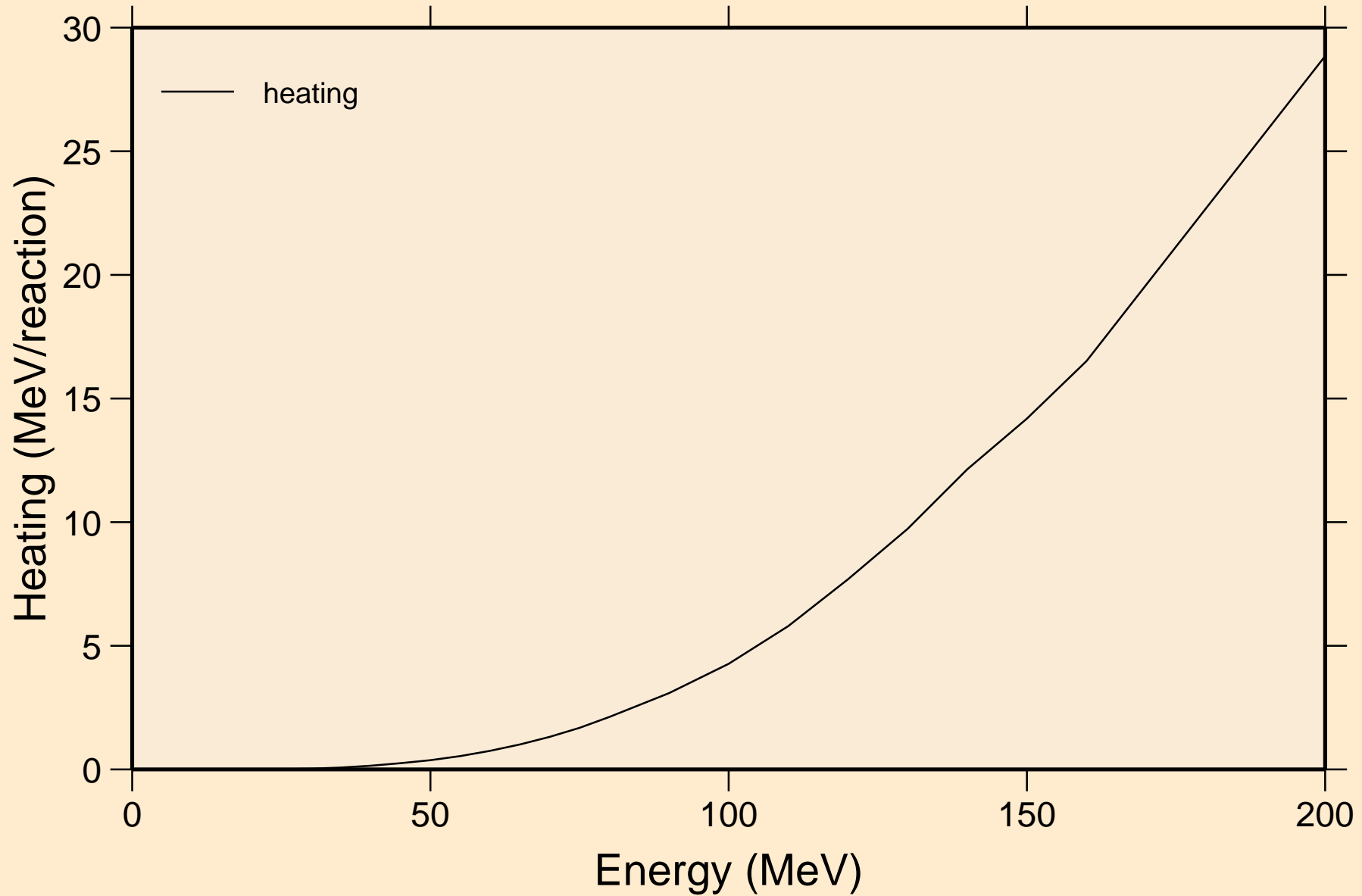
# HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

## Principal cross sections



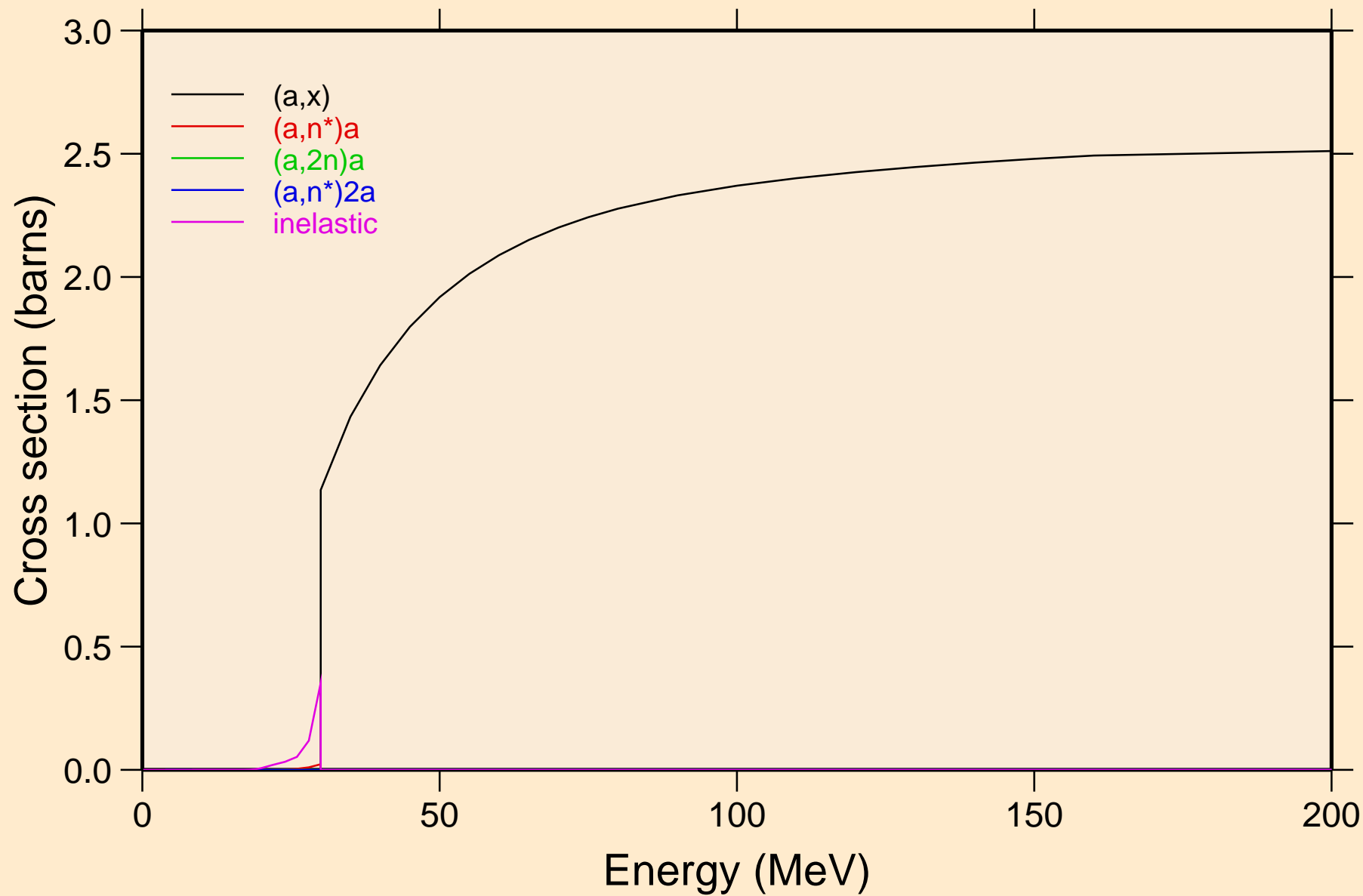
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

Heating

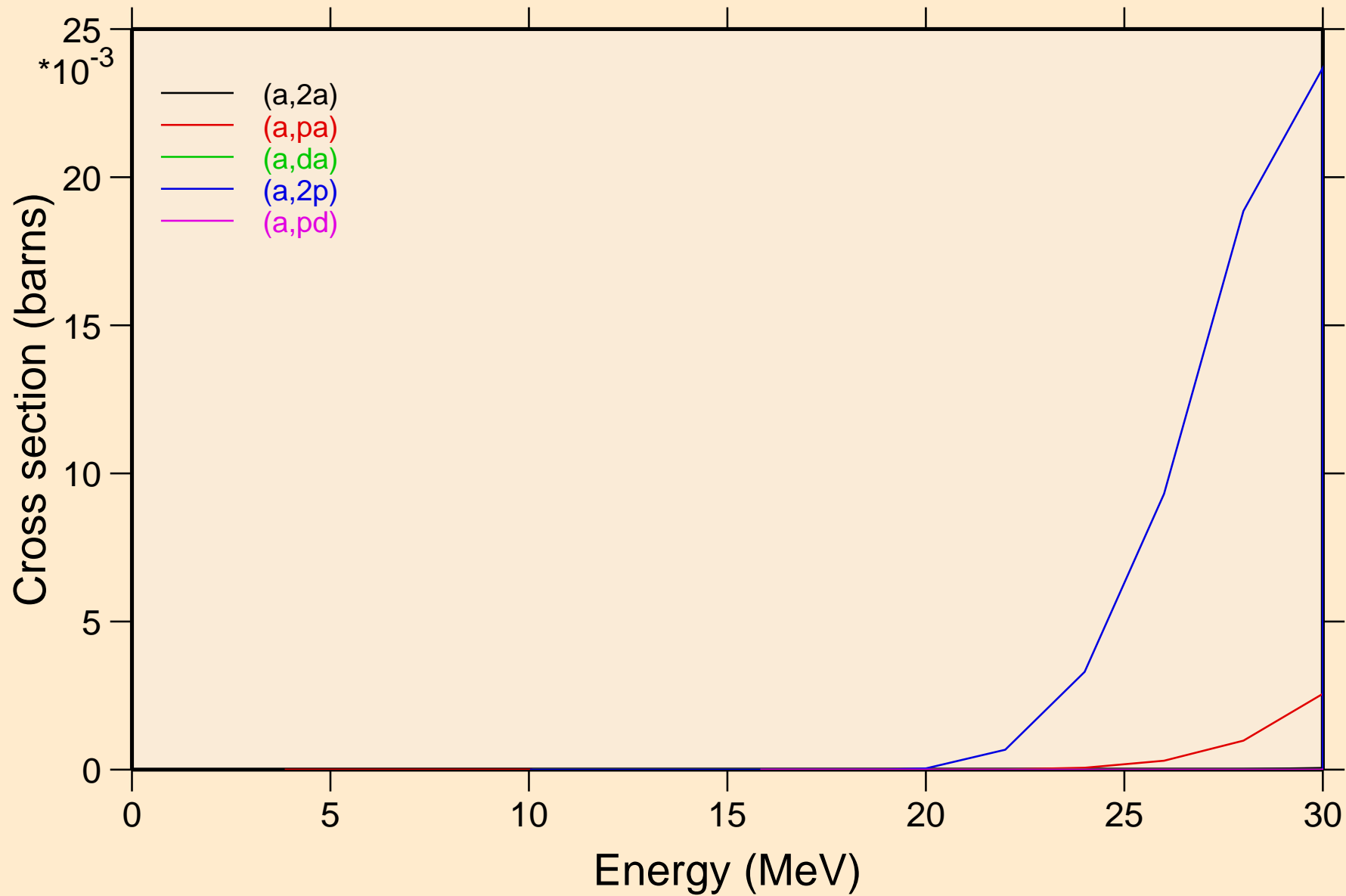


# HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

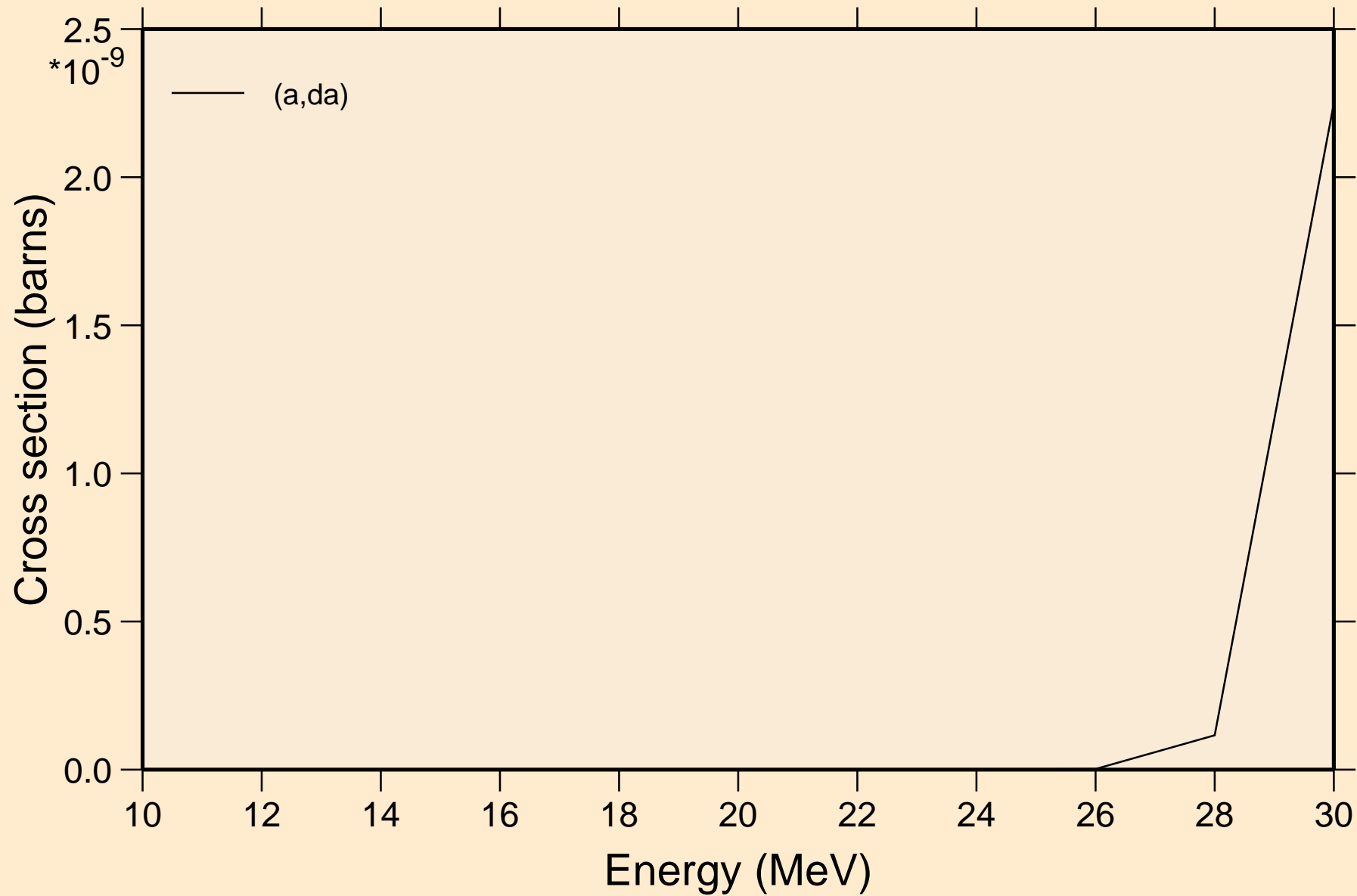
## Threshold reactions



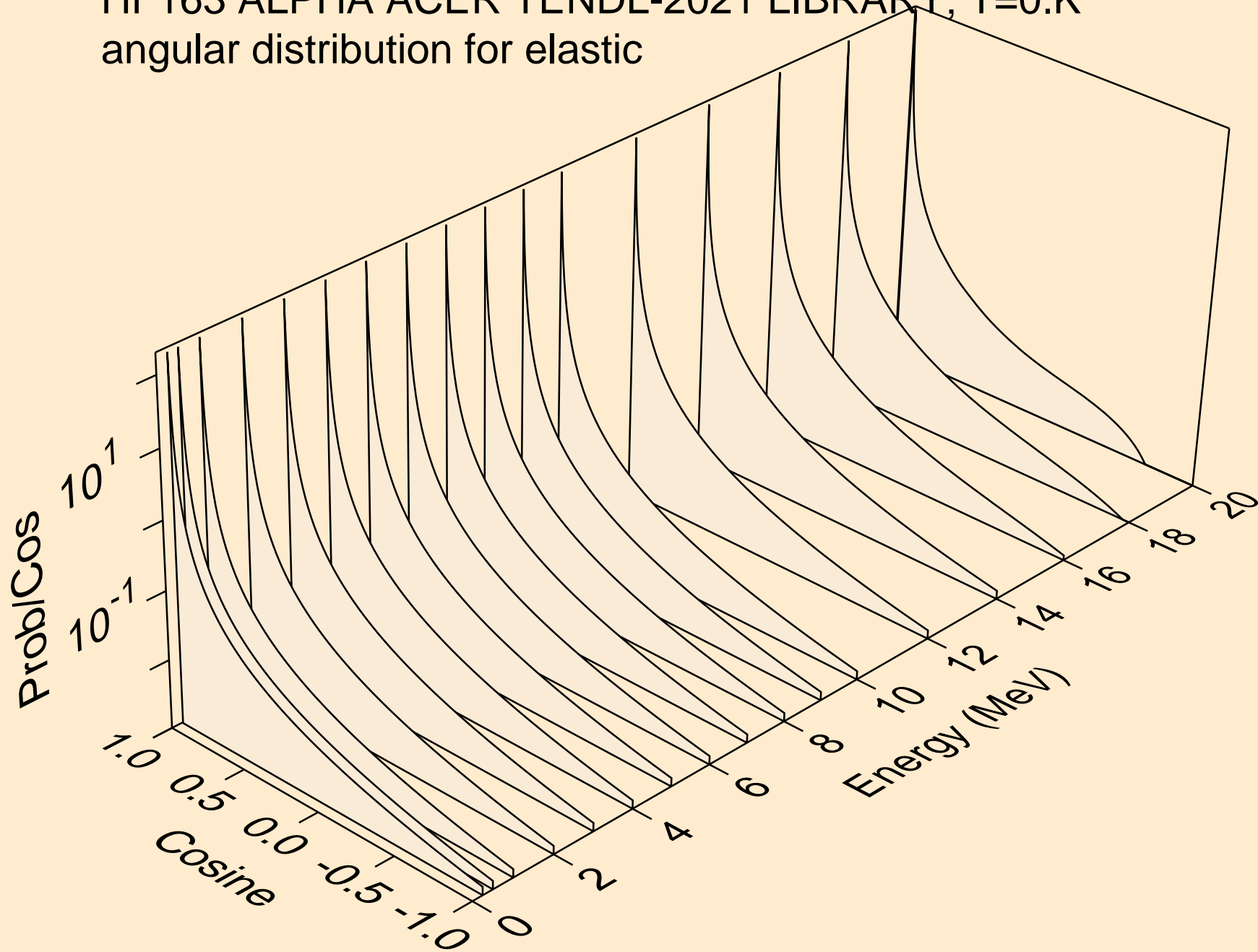
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Threshold reactions

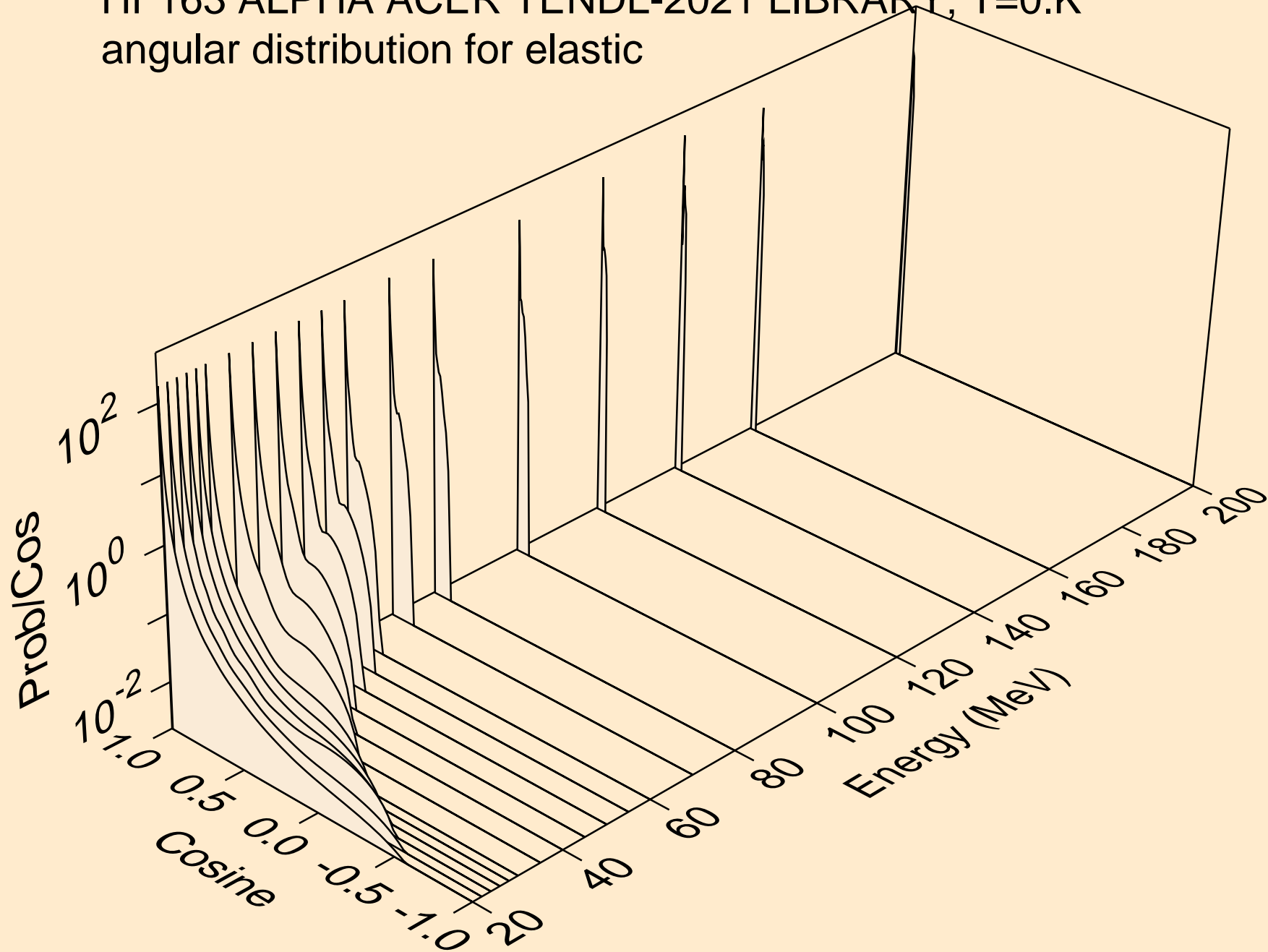


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic



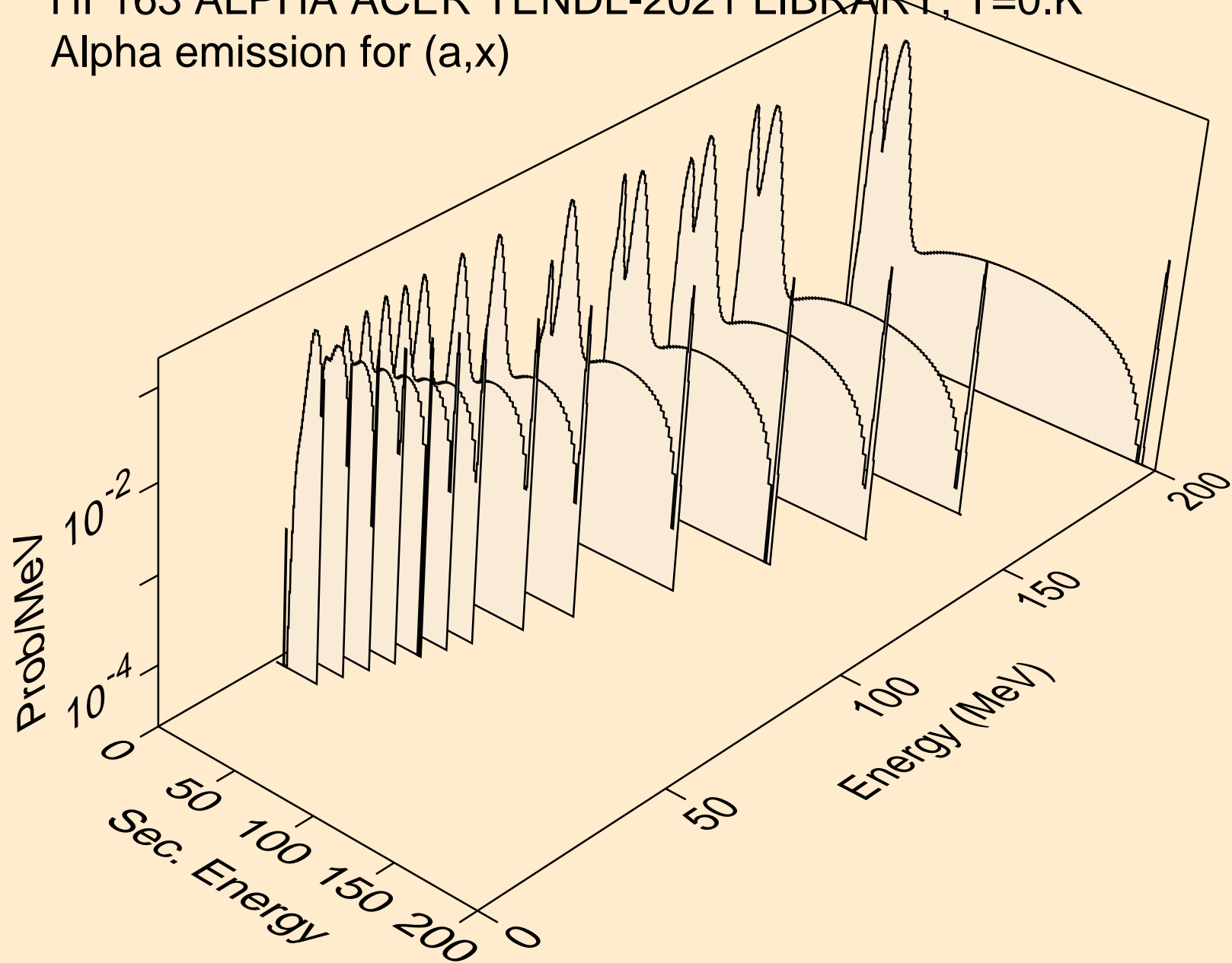


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
angular distribution for elastic

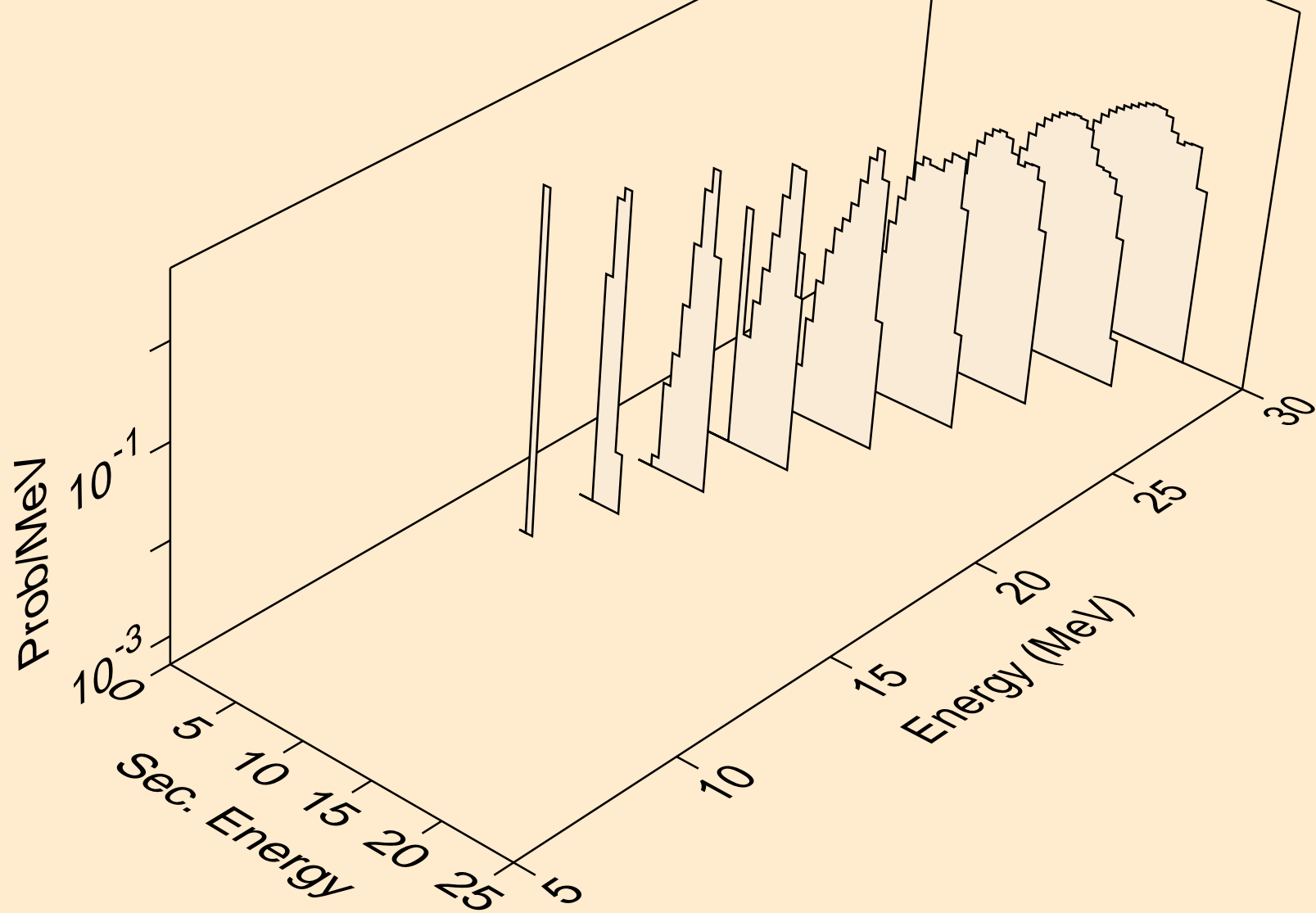


# HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

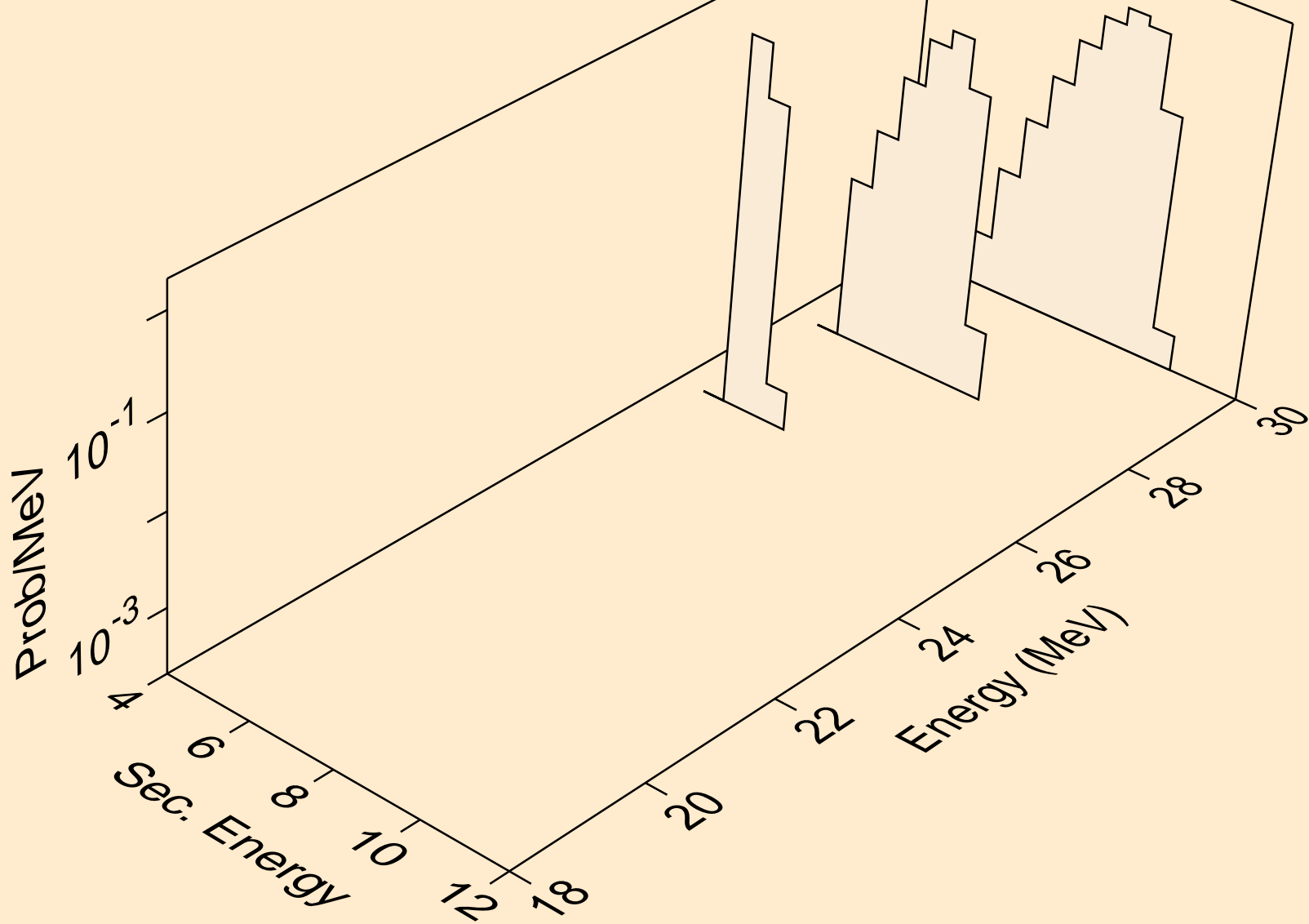
Alpha emission for (a,x)



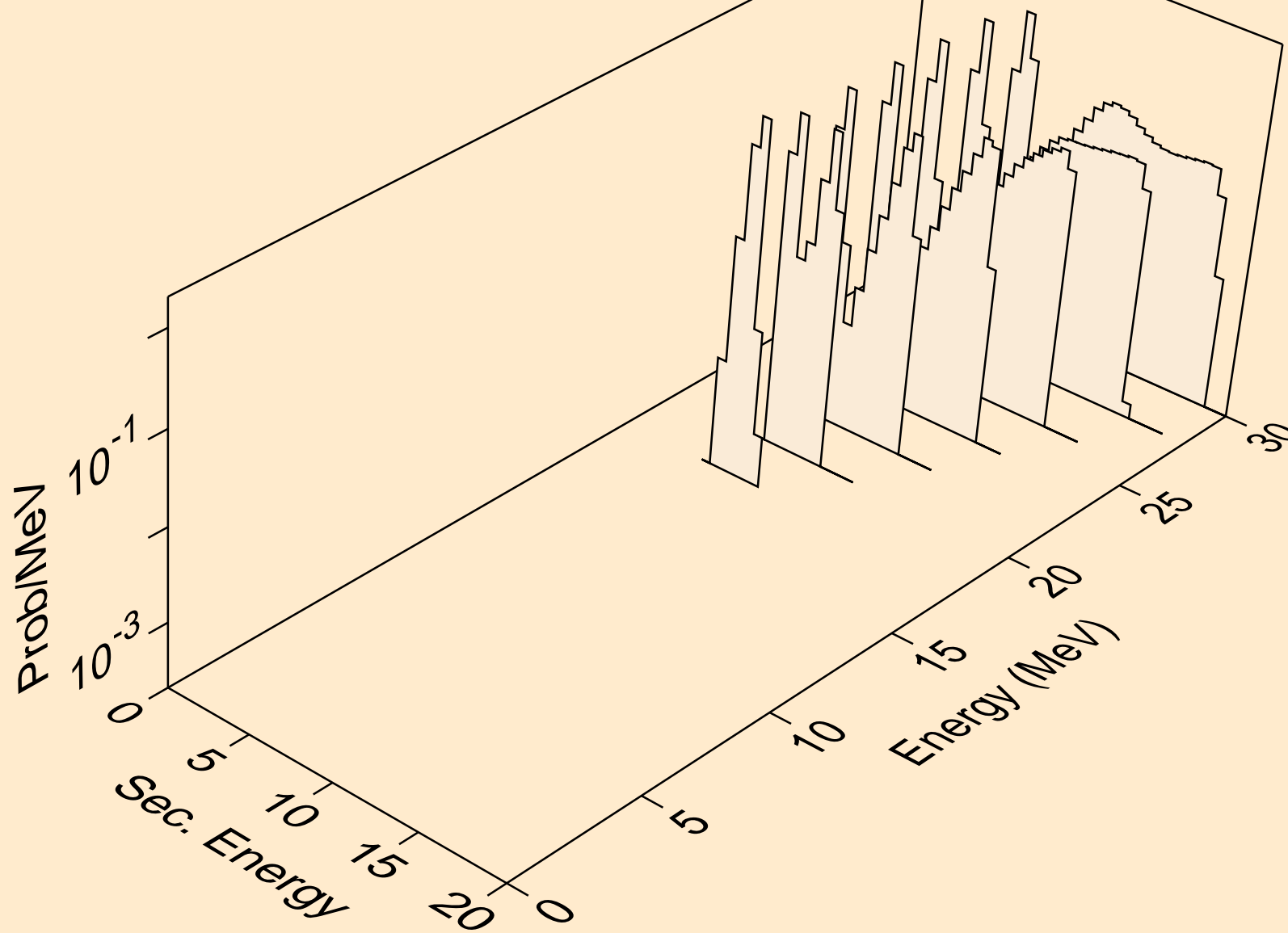
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



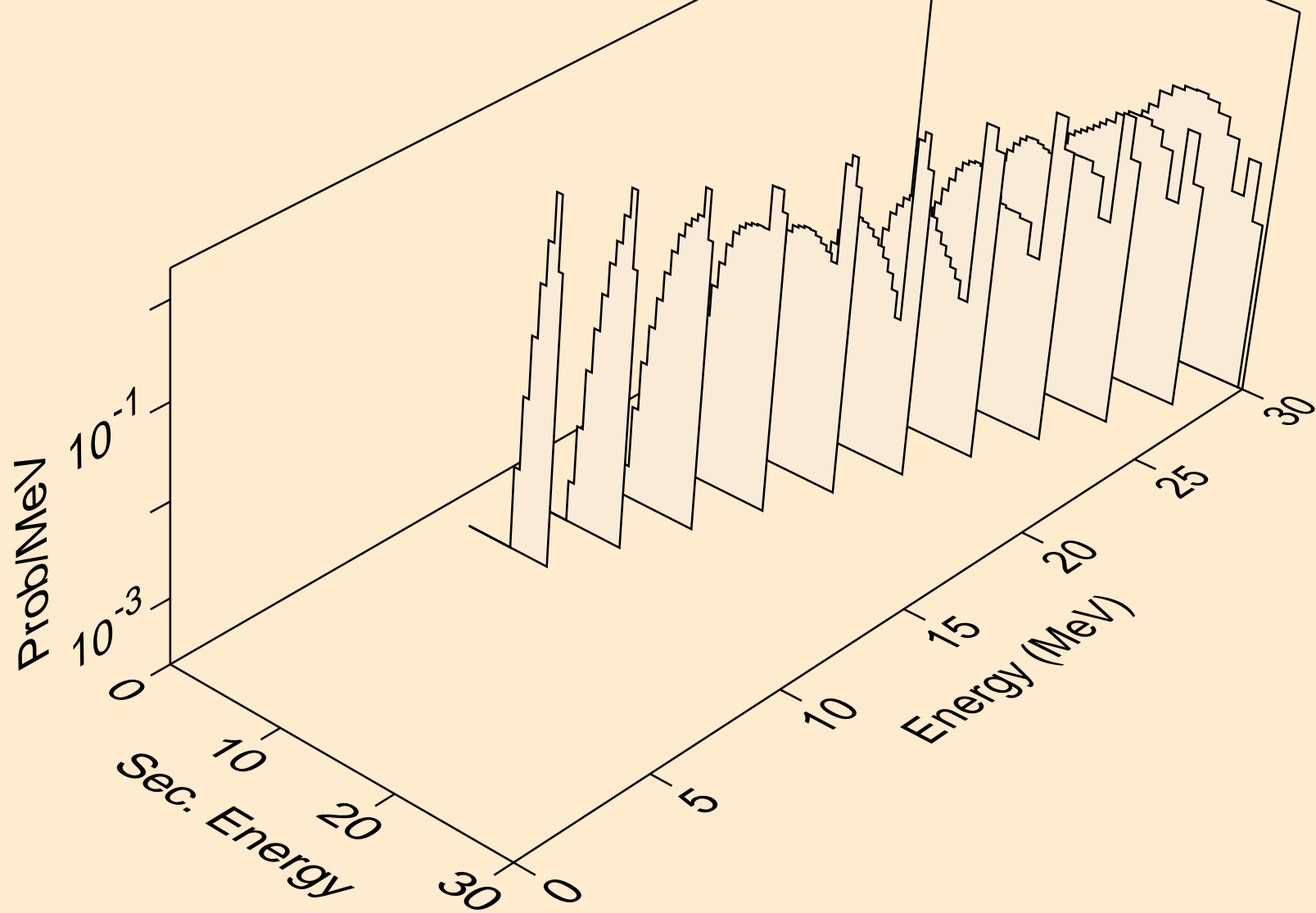
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,2n)a



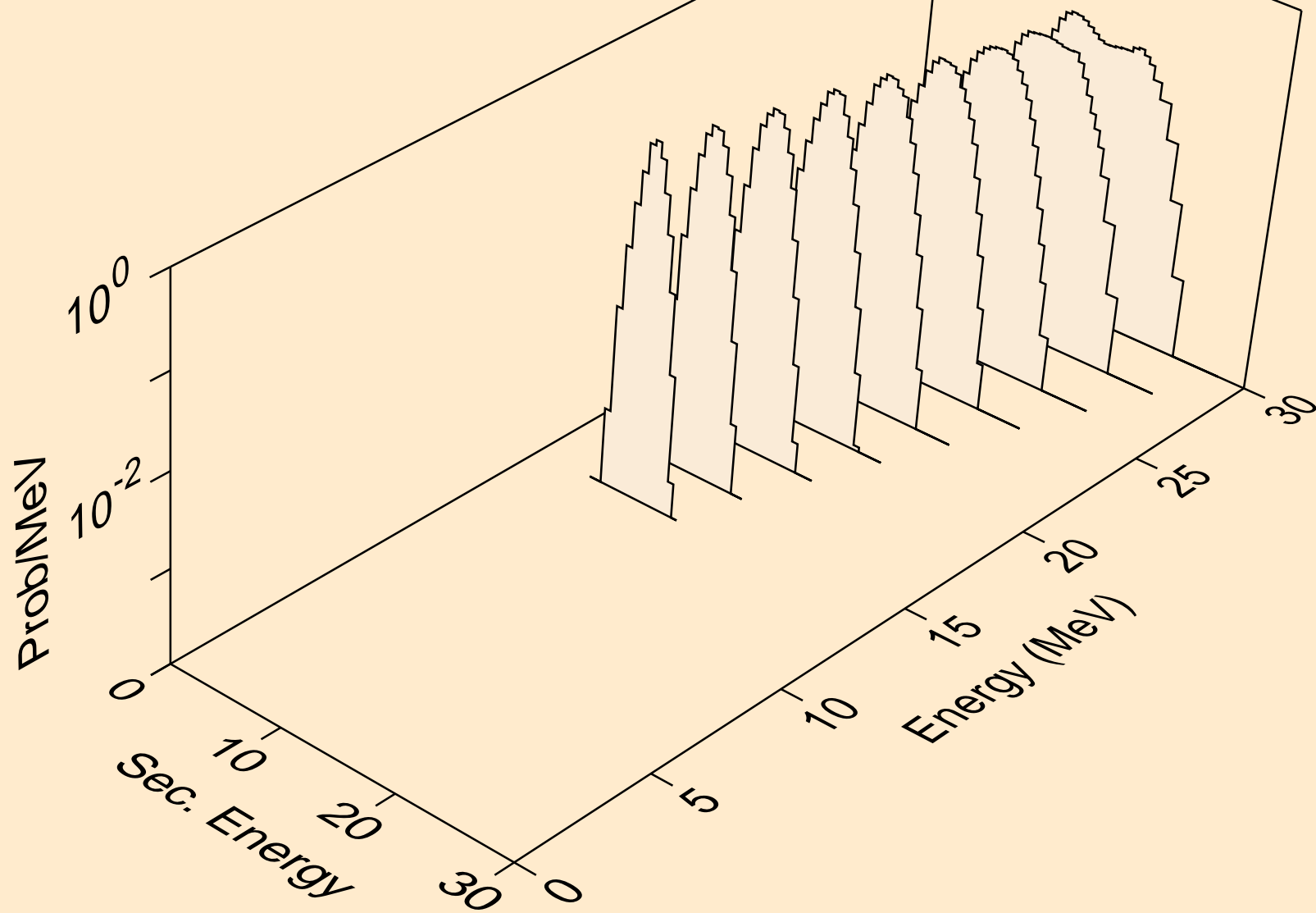
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,n\*)2a



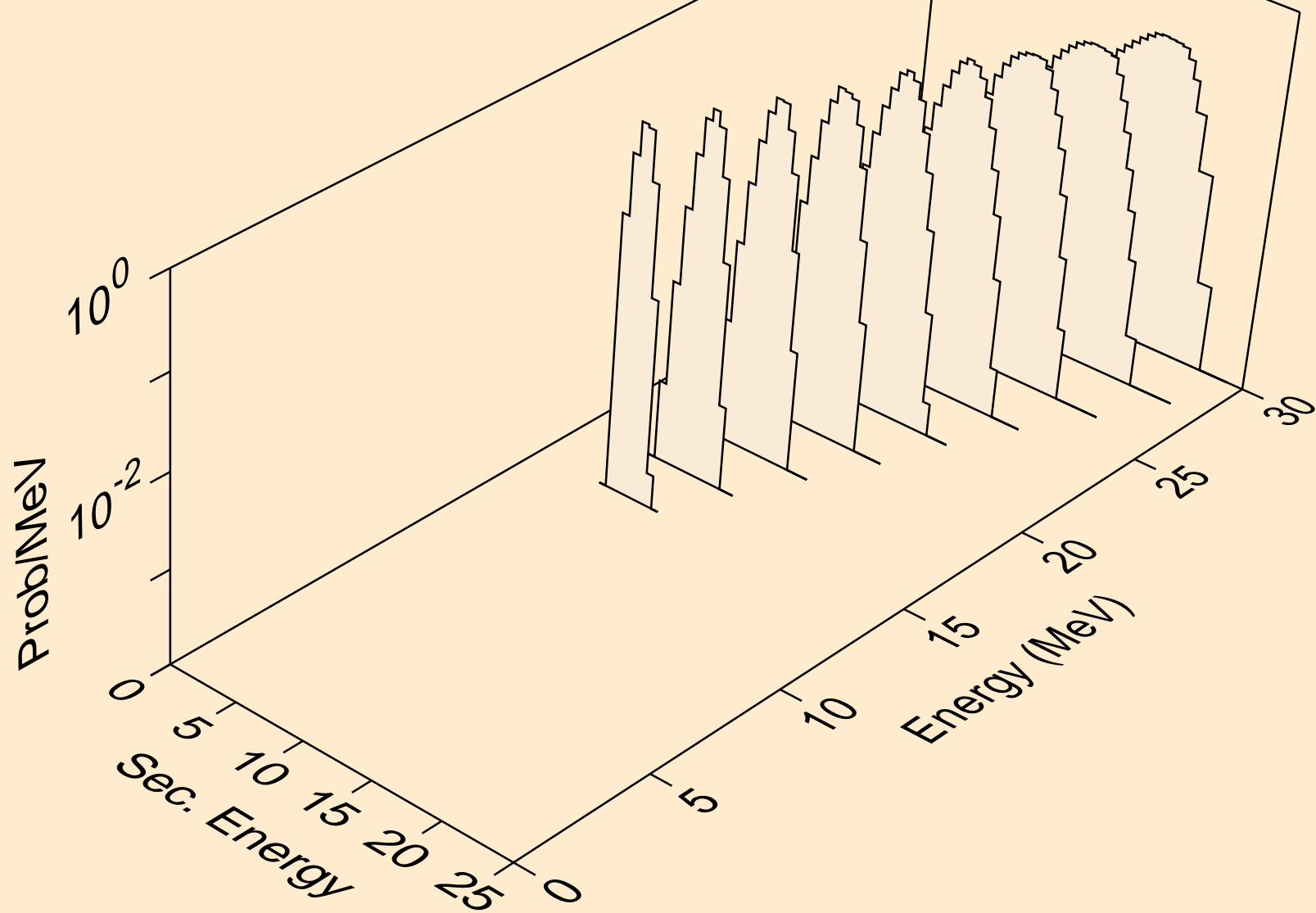
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for inelastic



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,2a)

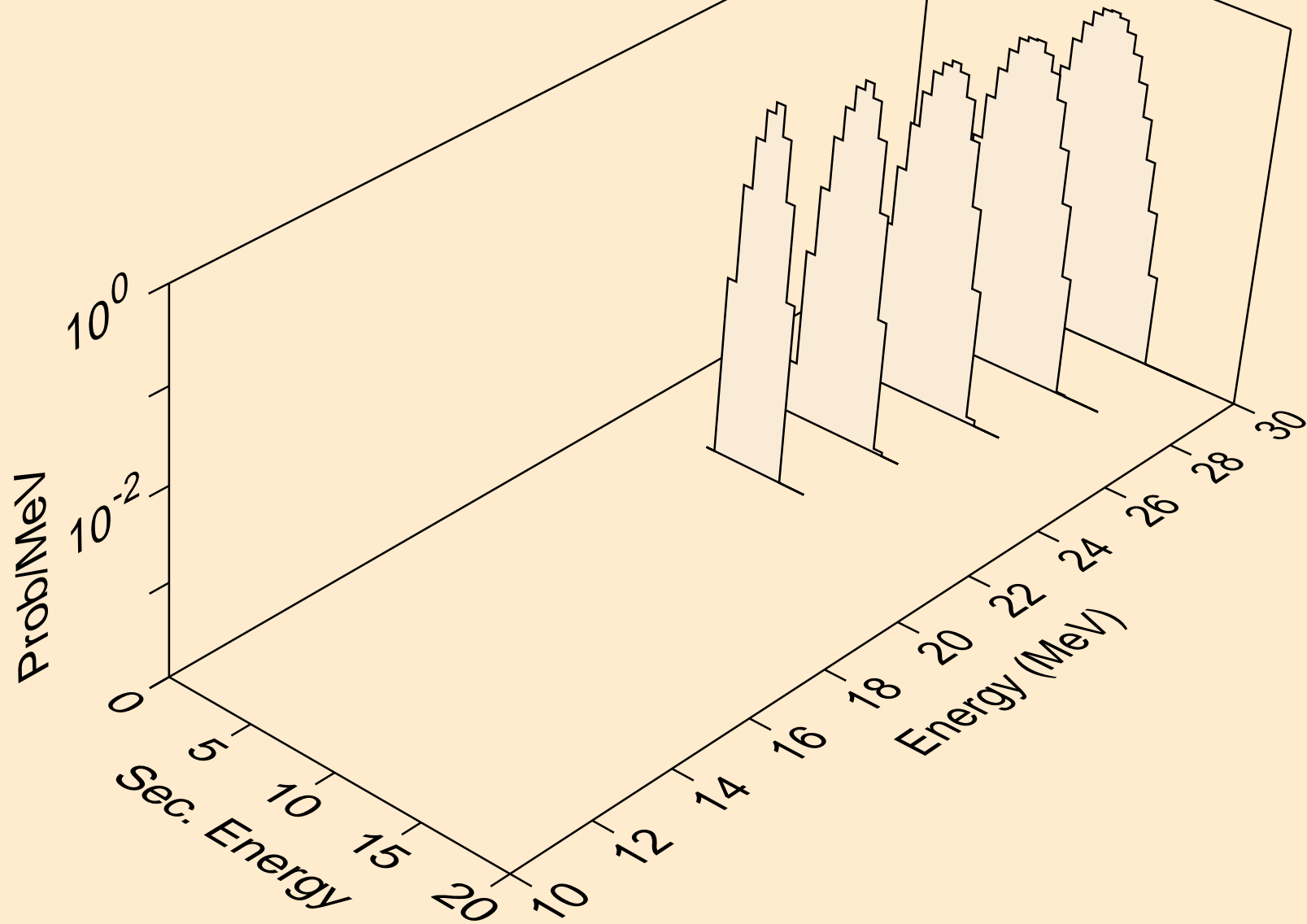


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,pa)

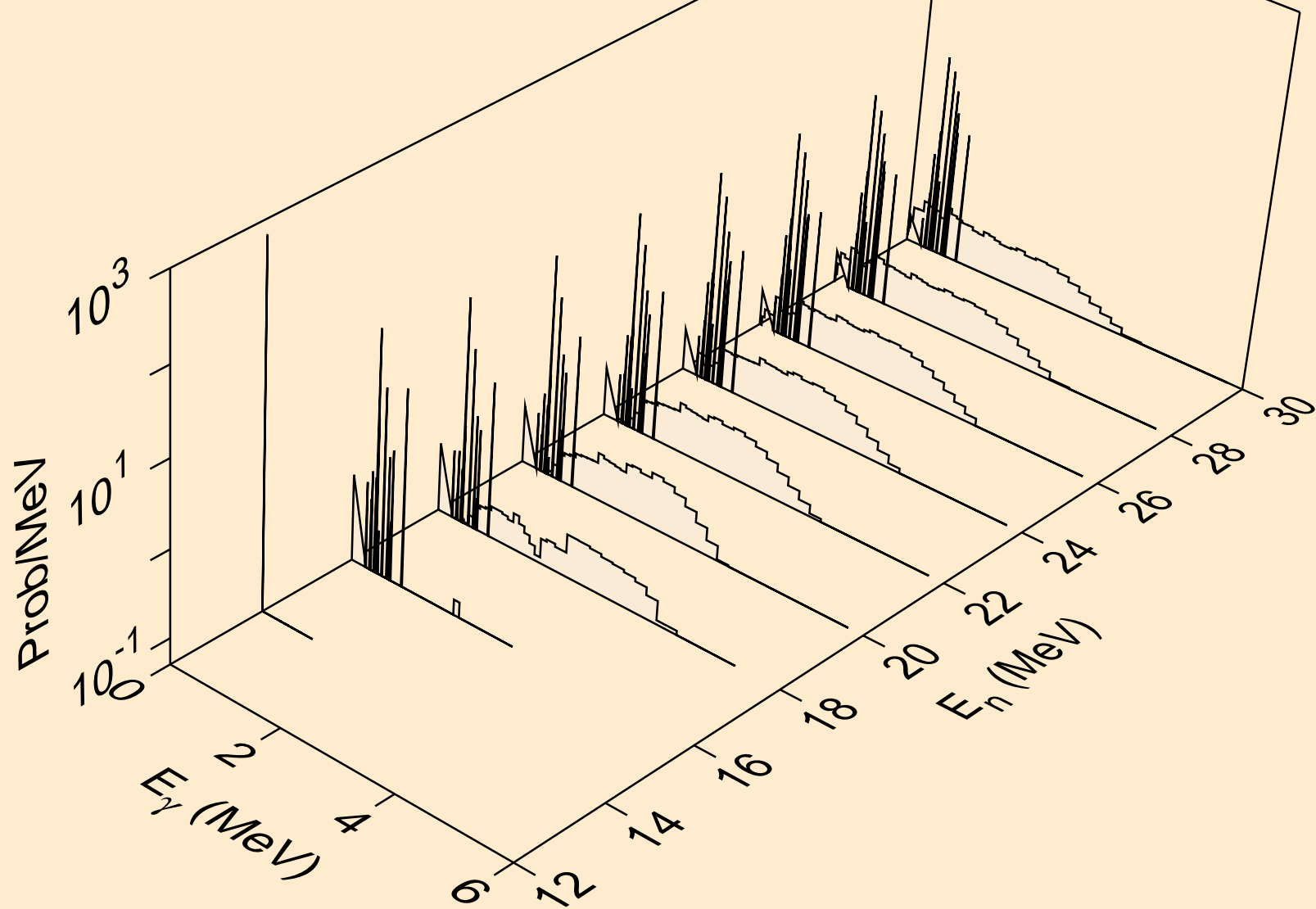




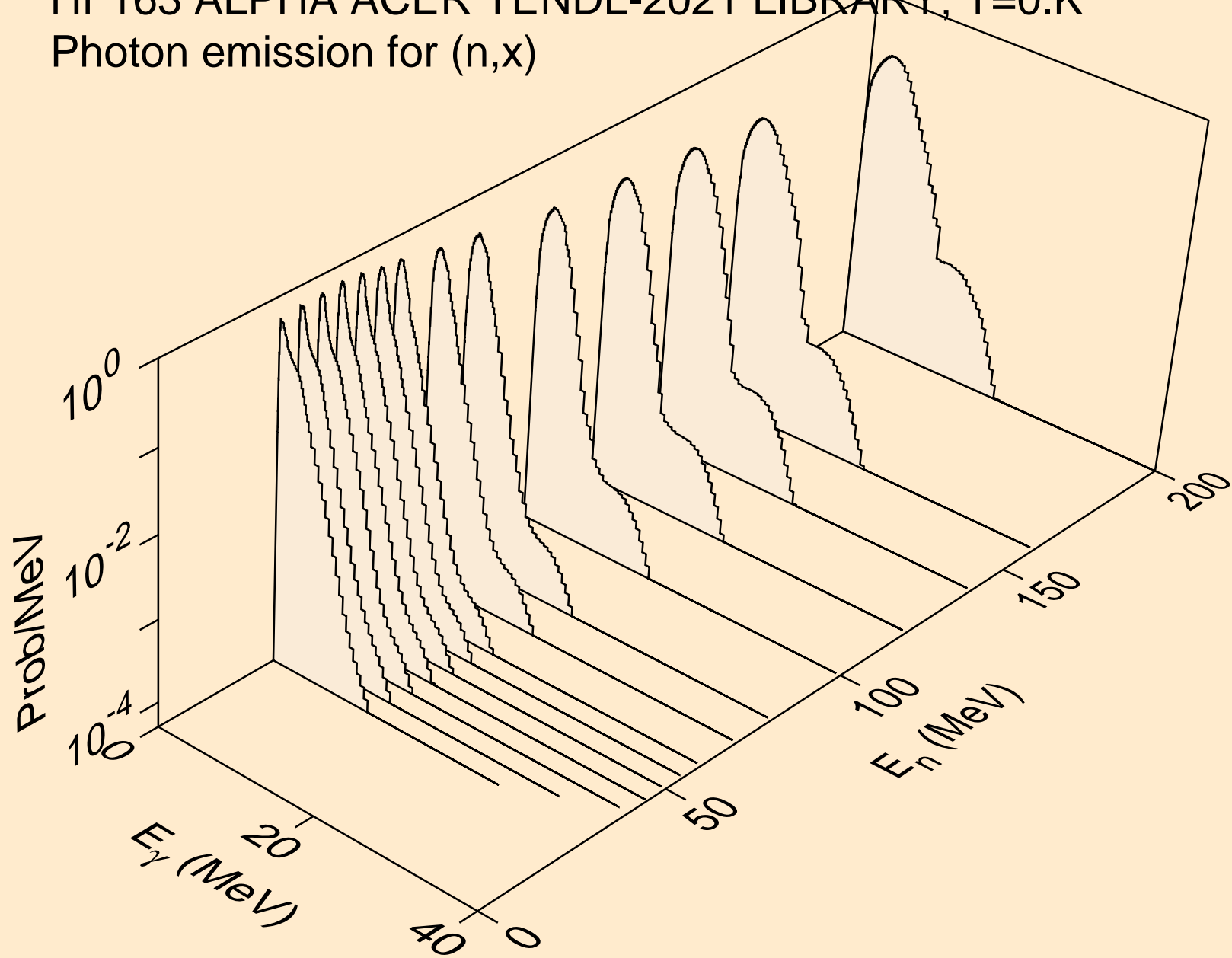
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Alpha emission for (a,da)



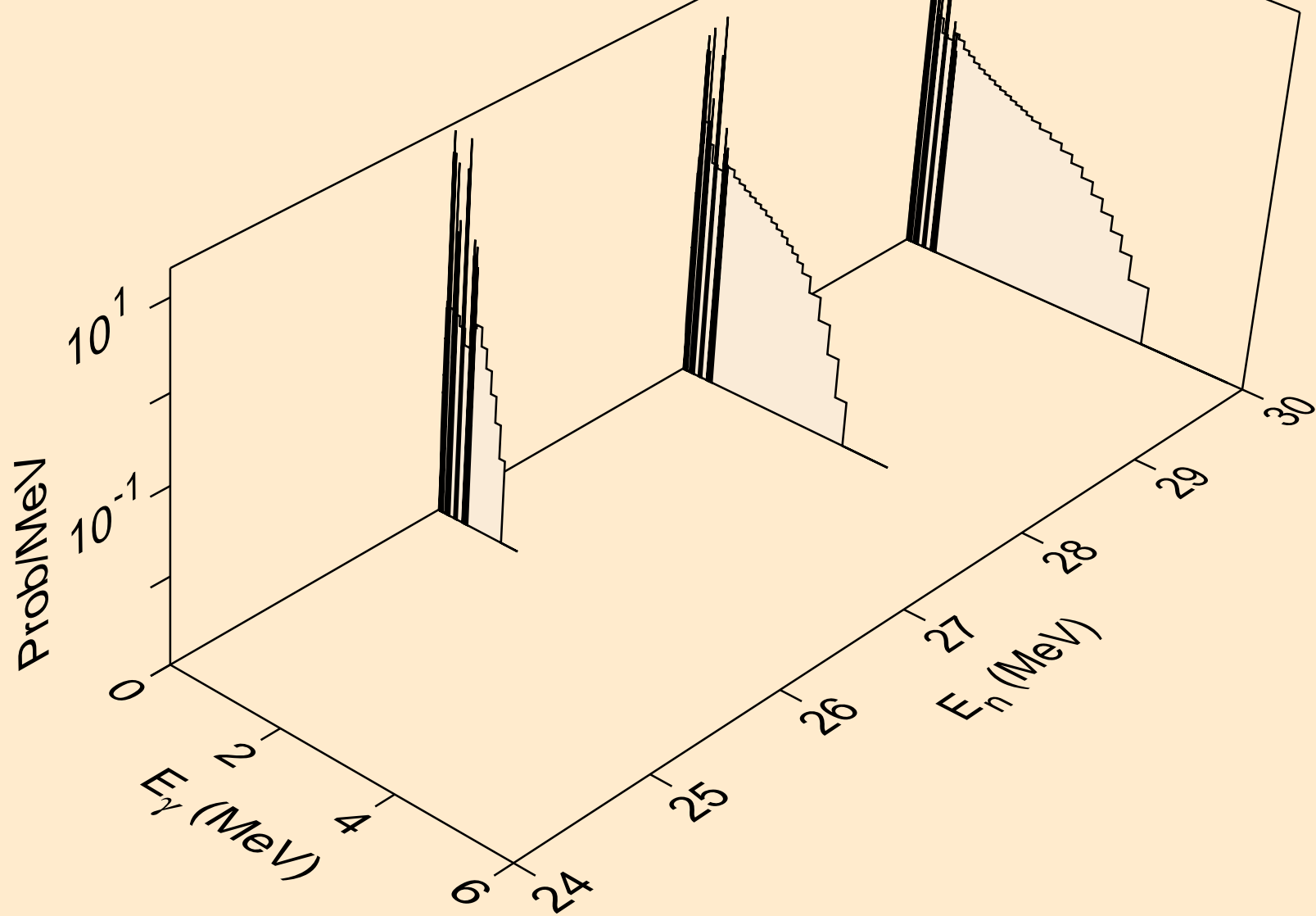
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (z,n)



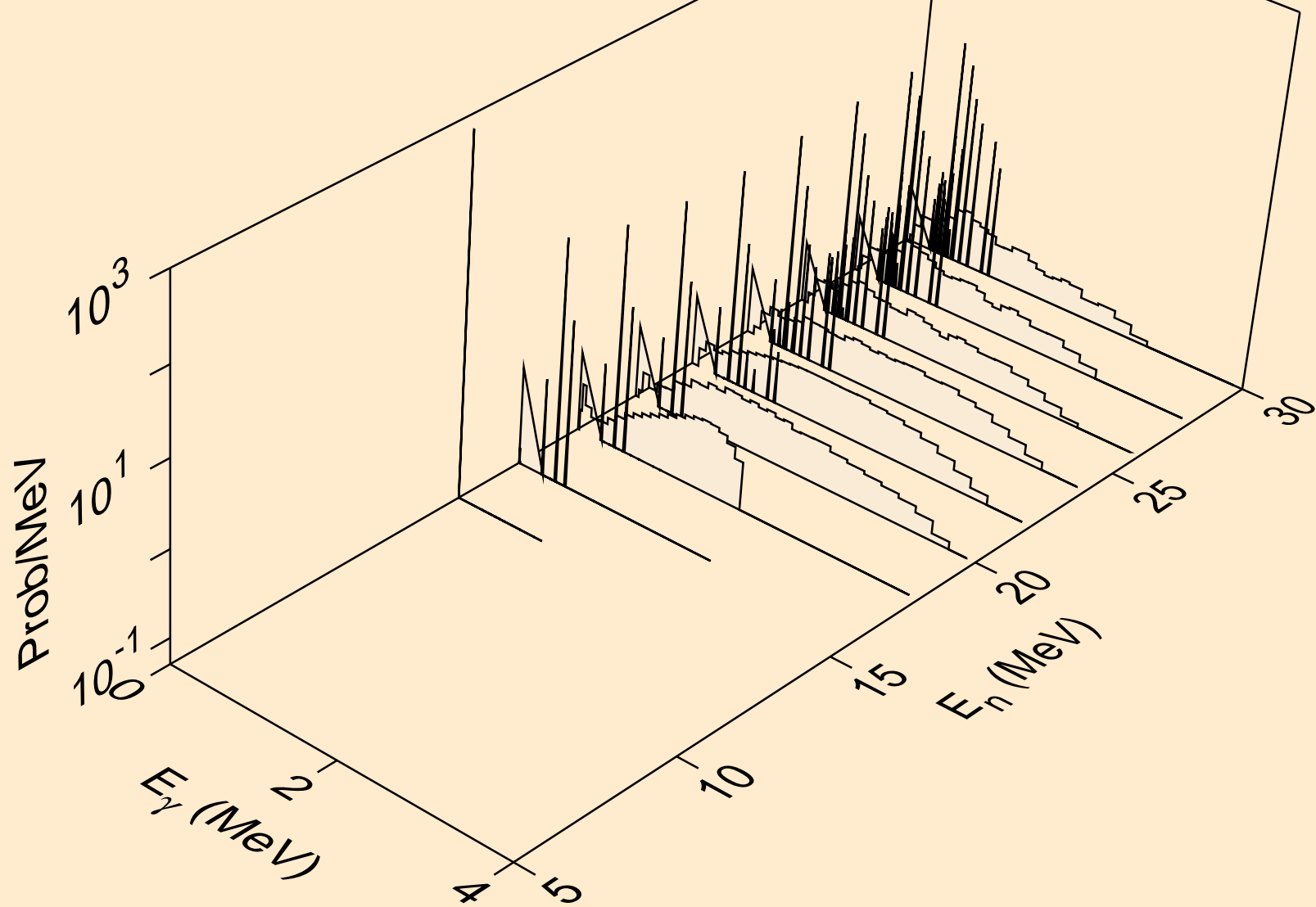
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,x)



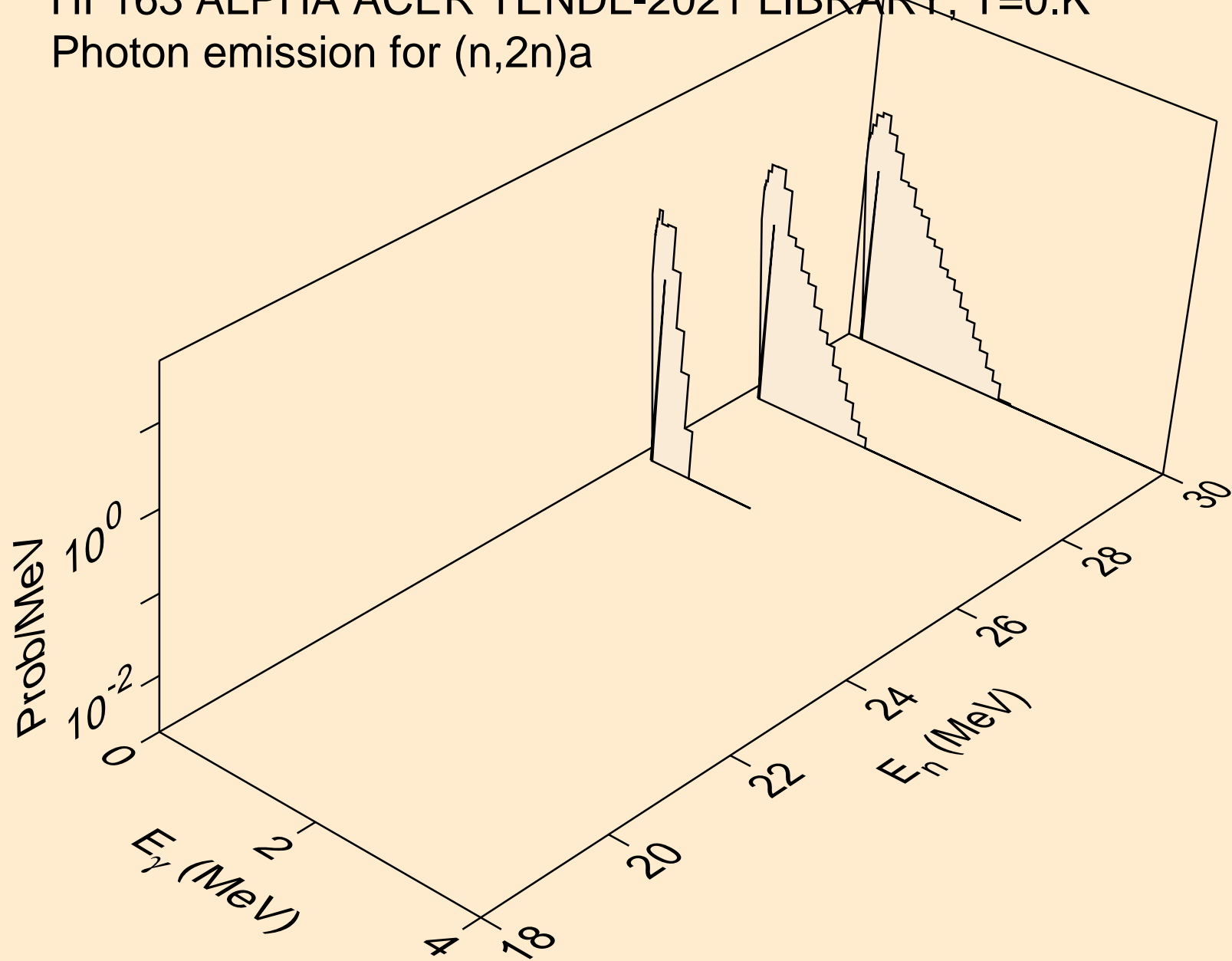
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)



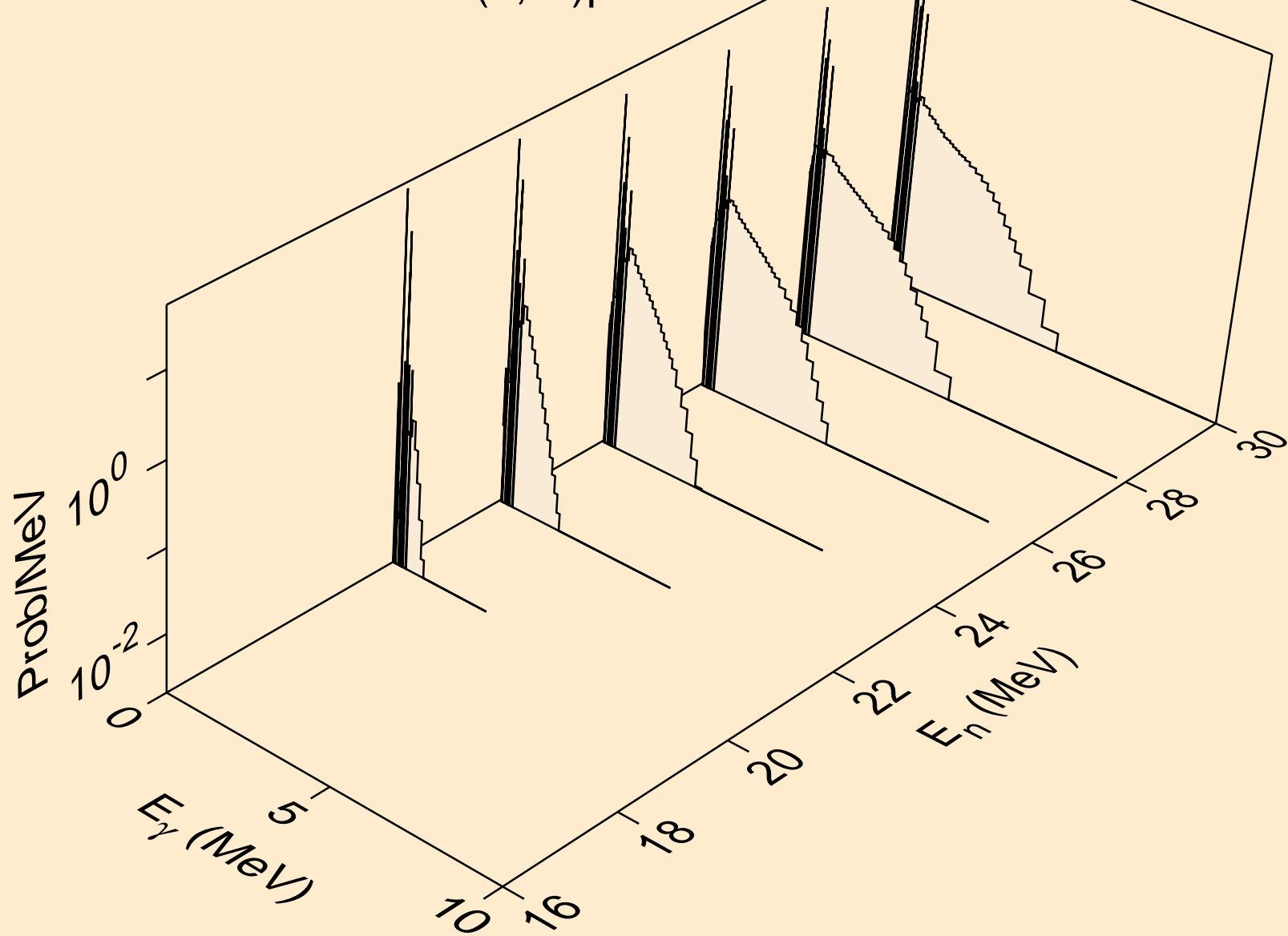
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



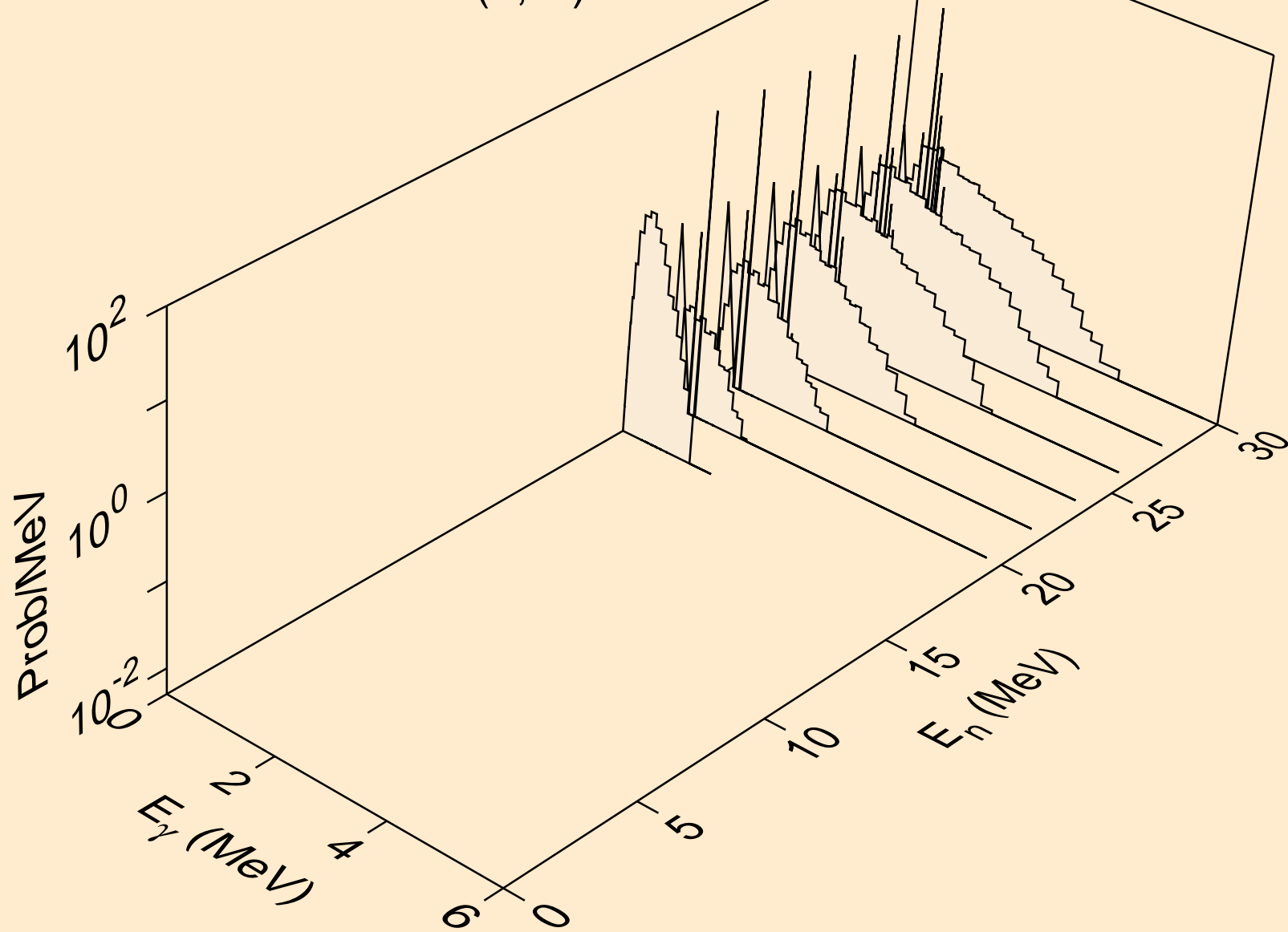
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2n)a



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)p

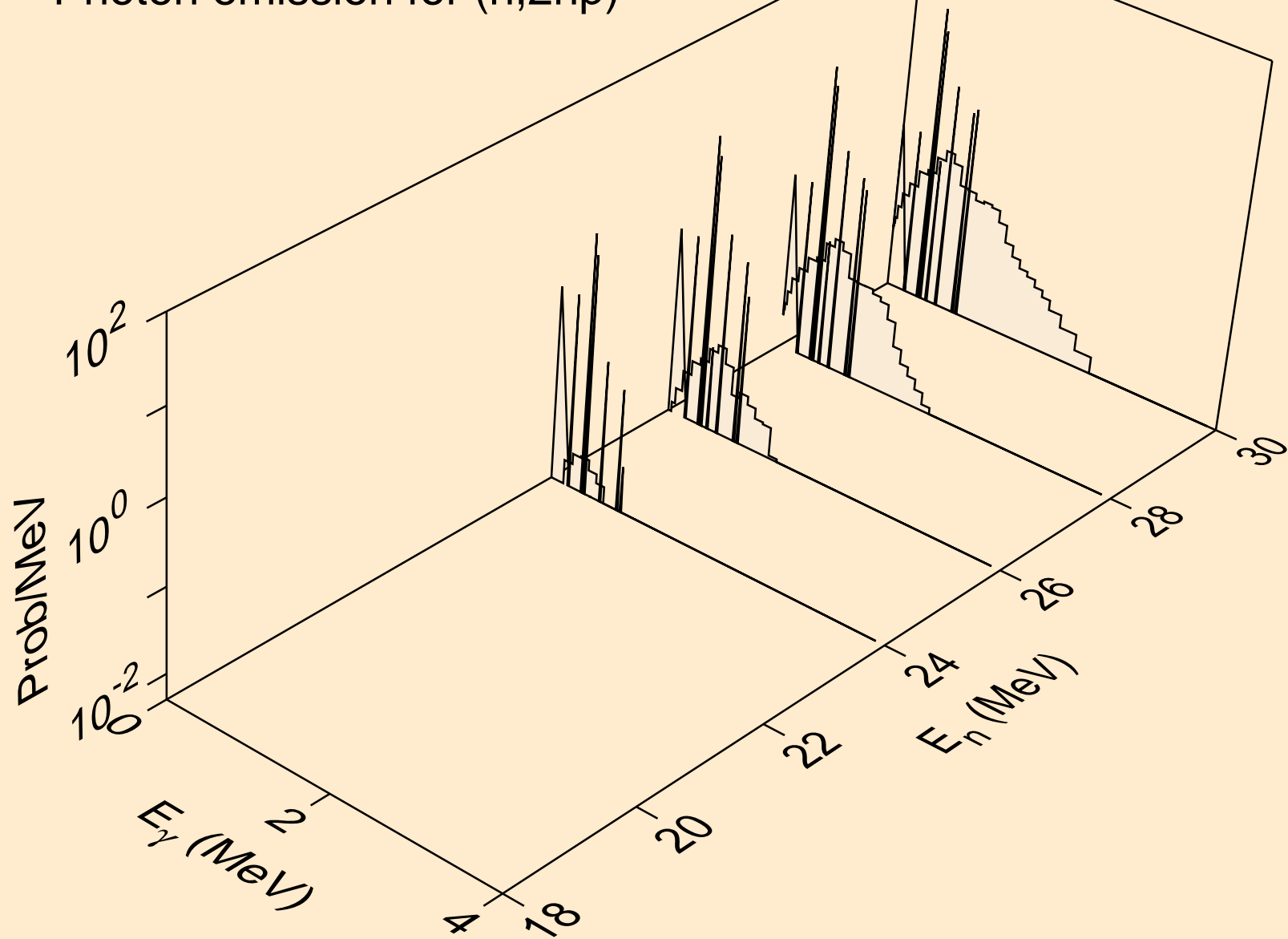


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a

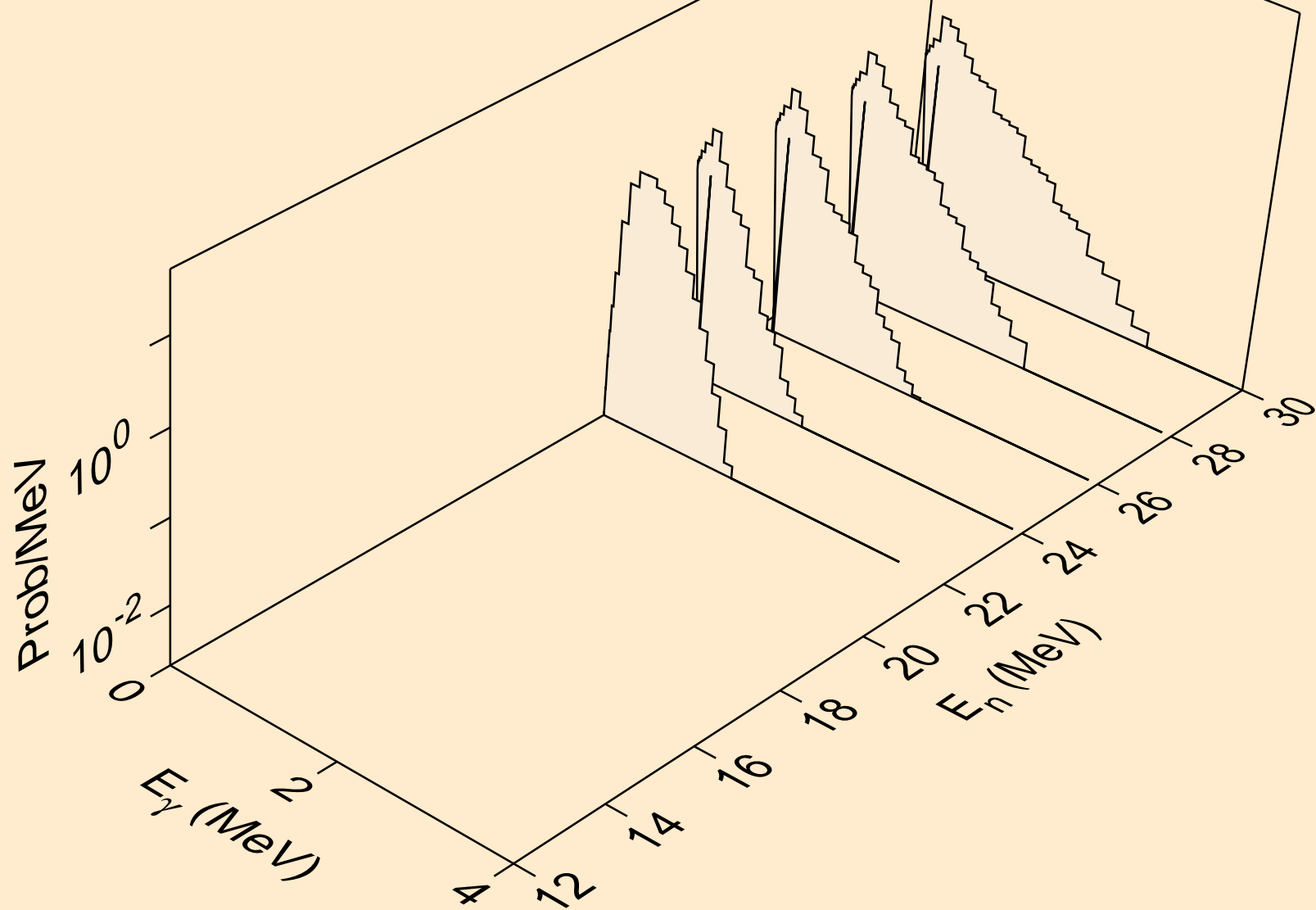




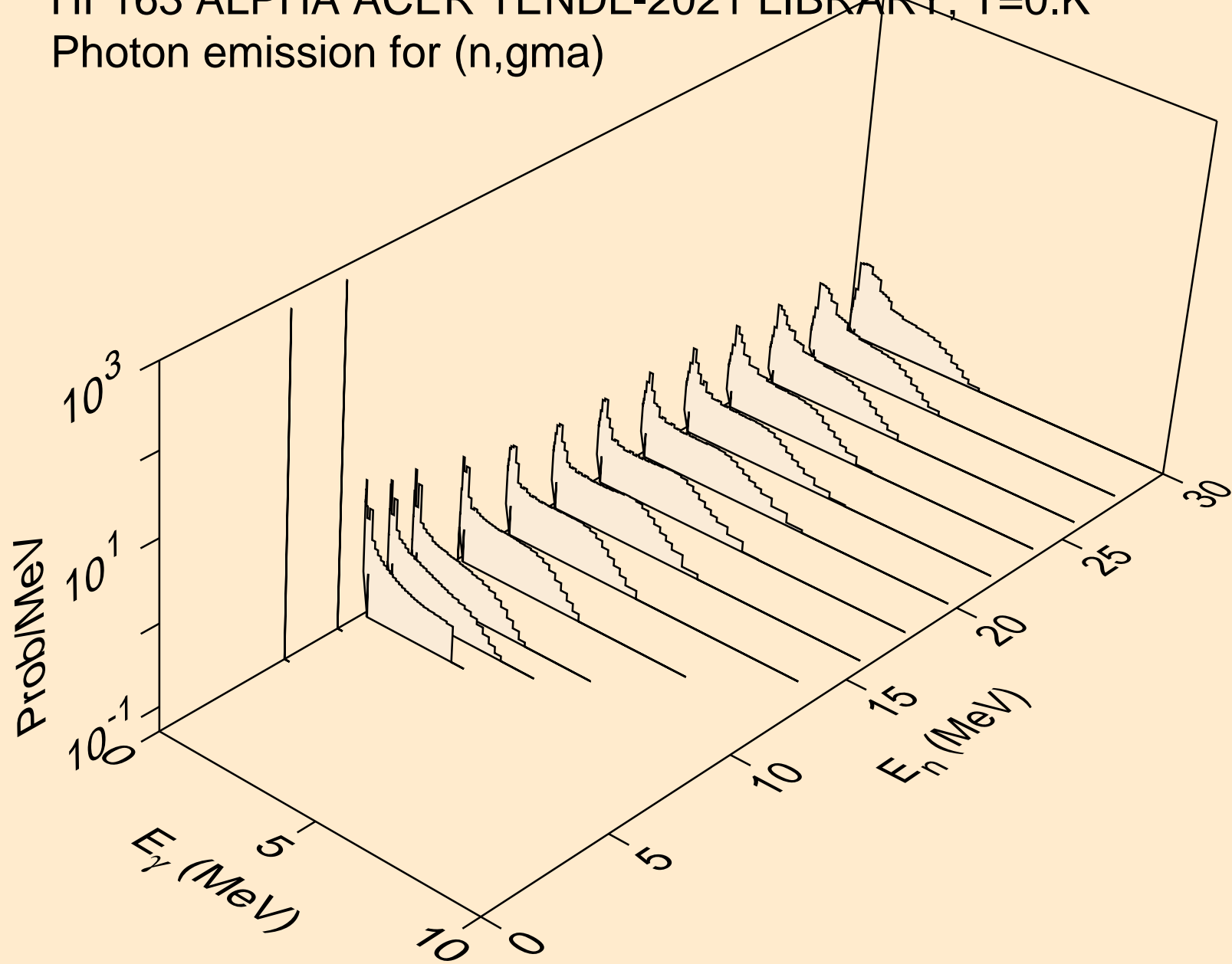
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2np)



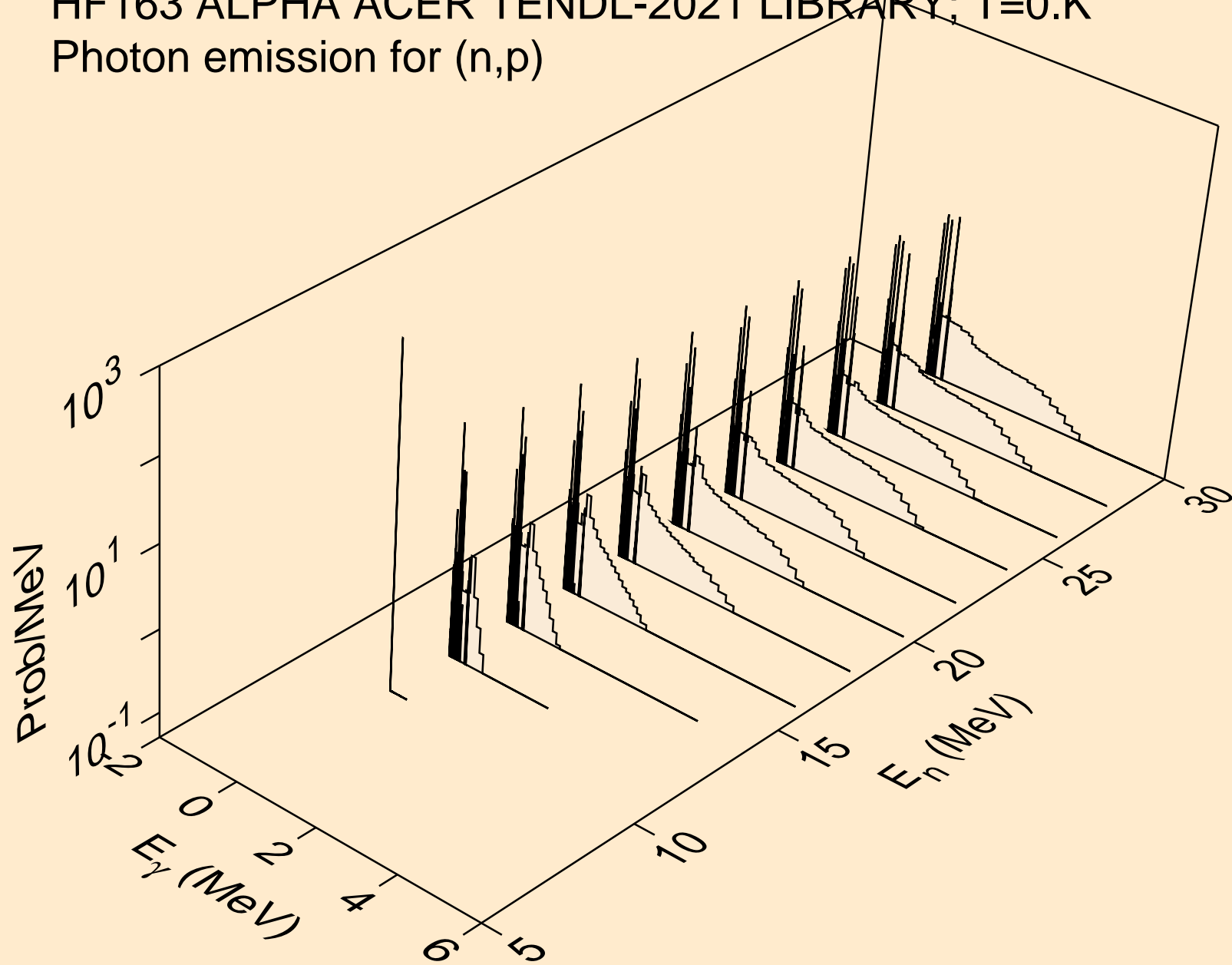
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,npa)



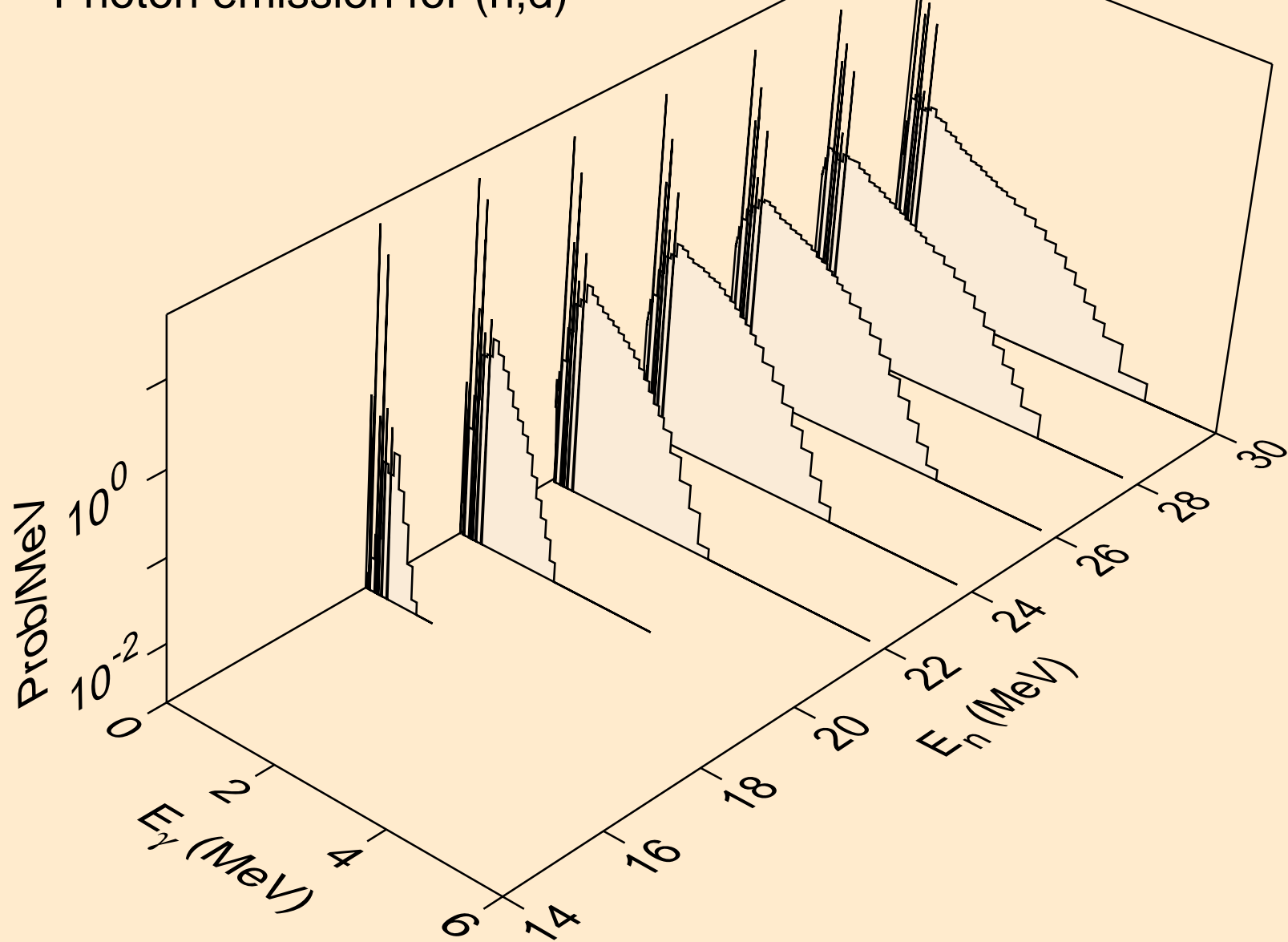
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,gma)



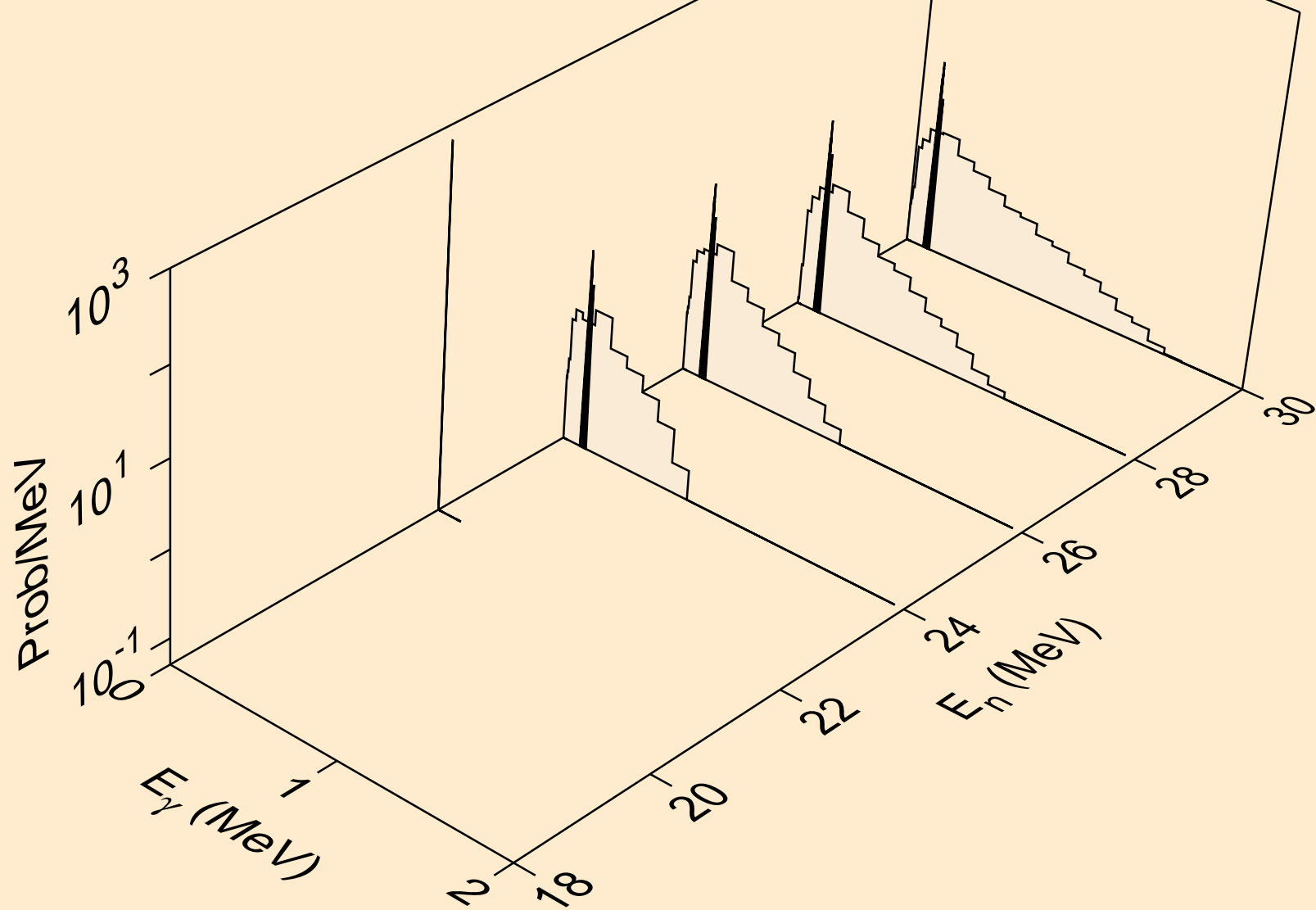
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,p)



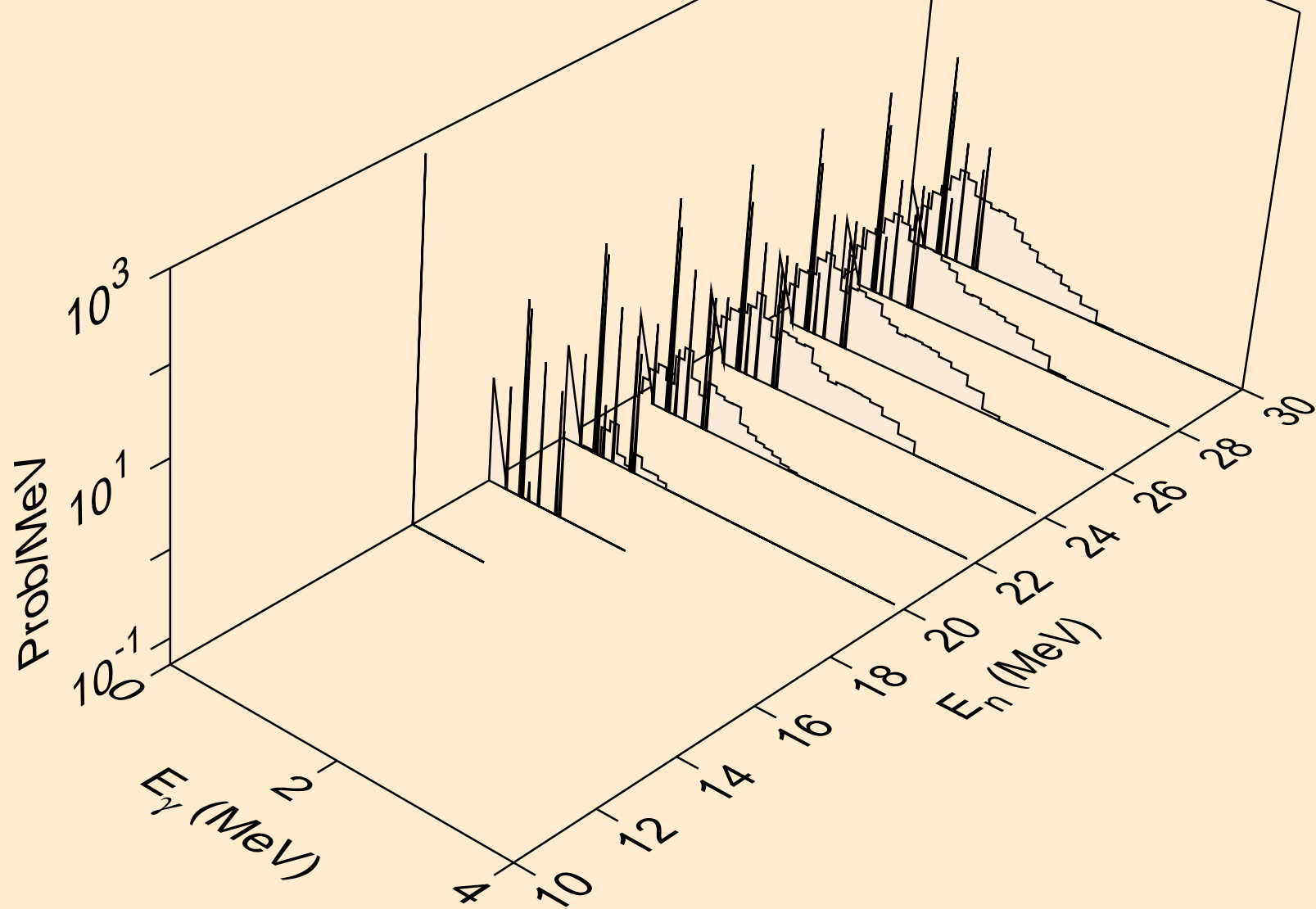
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,d)



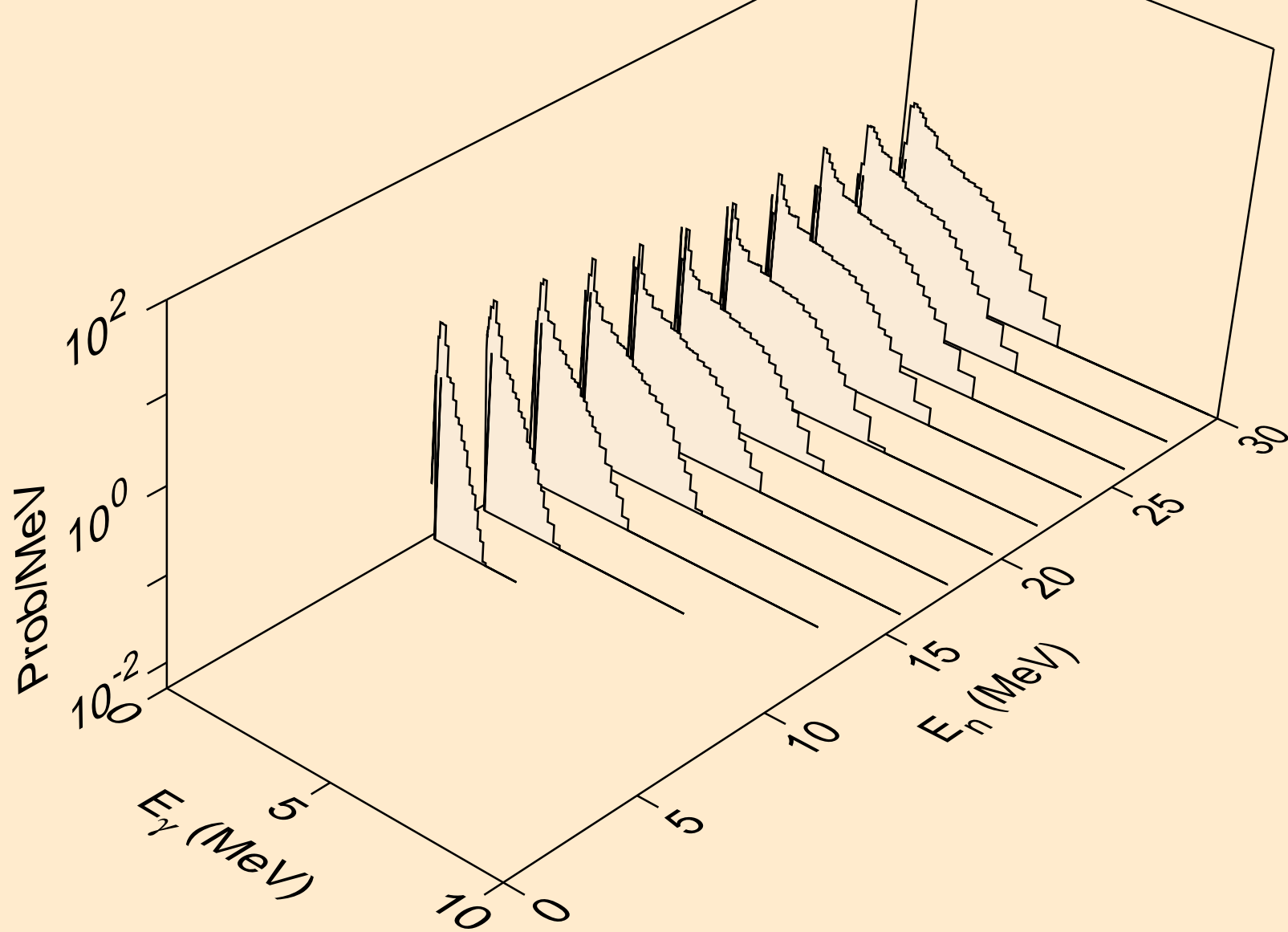
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,t)



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,he3)

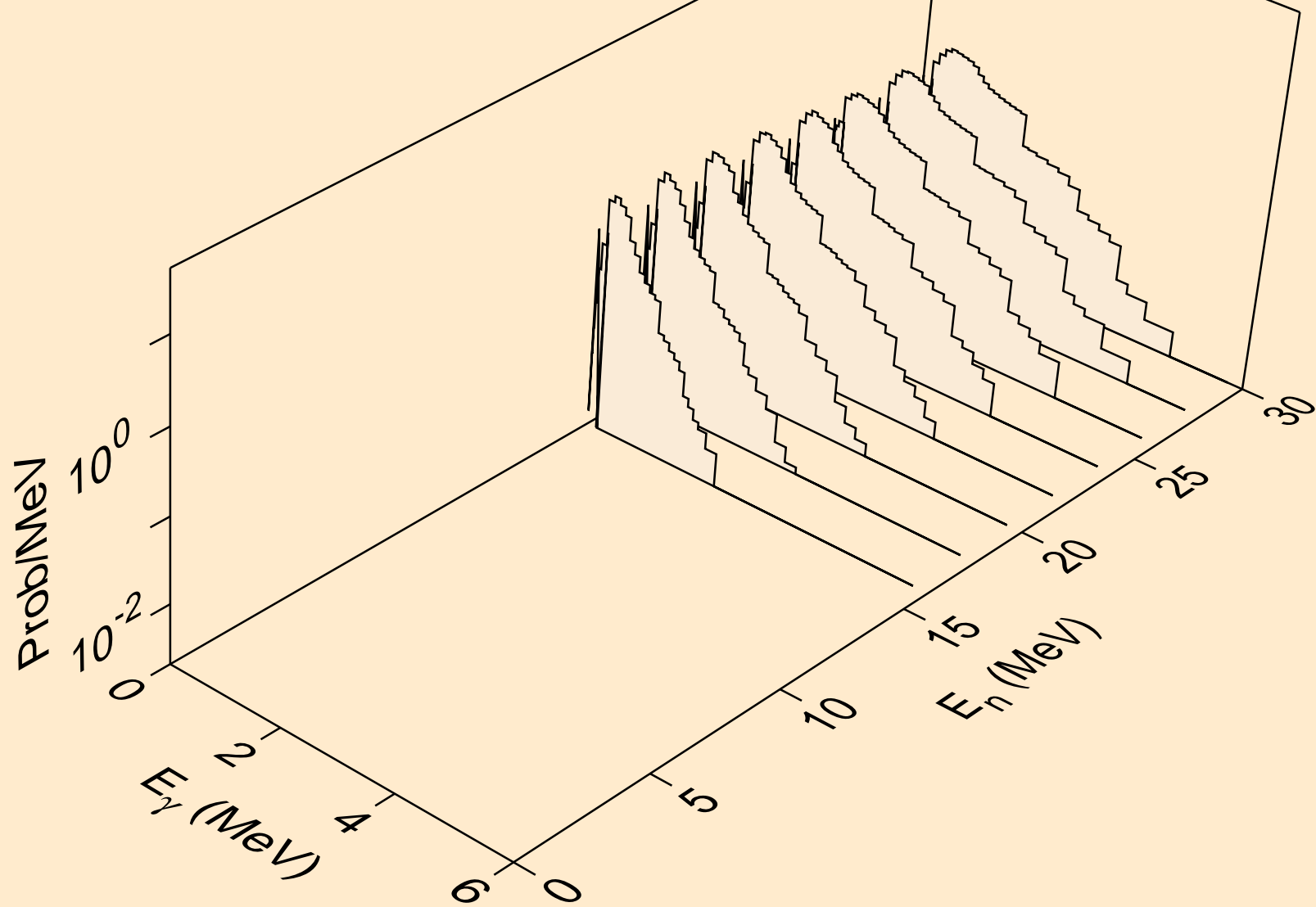


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for inelastic

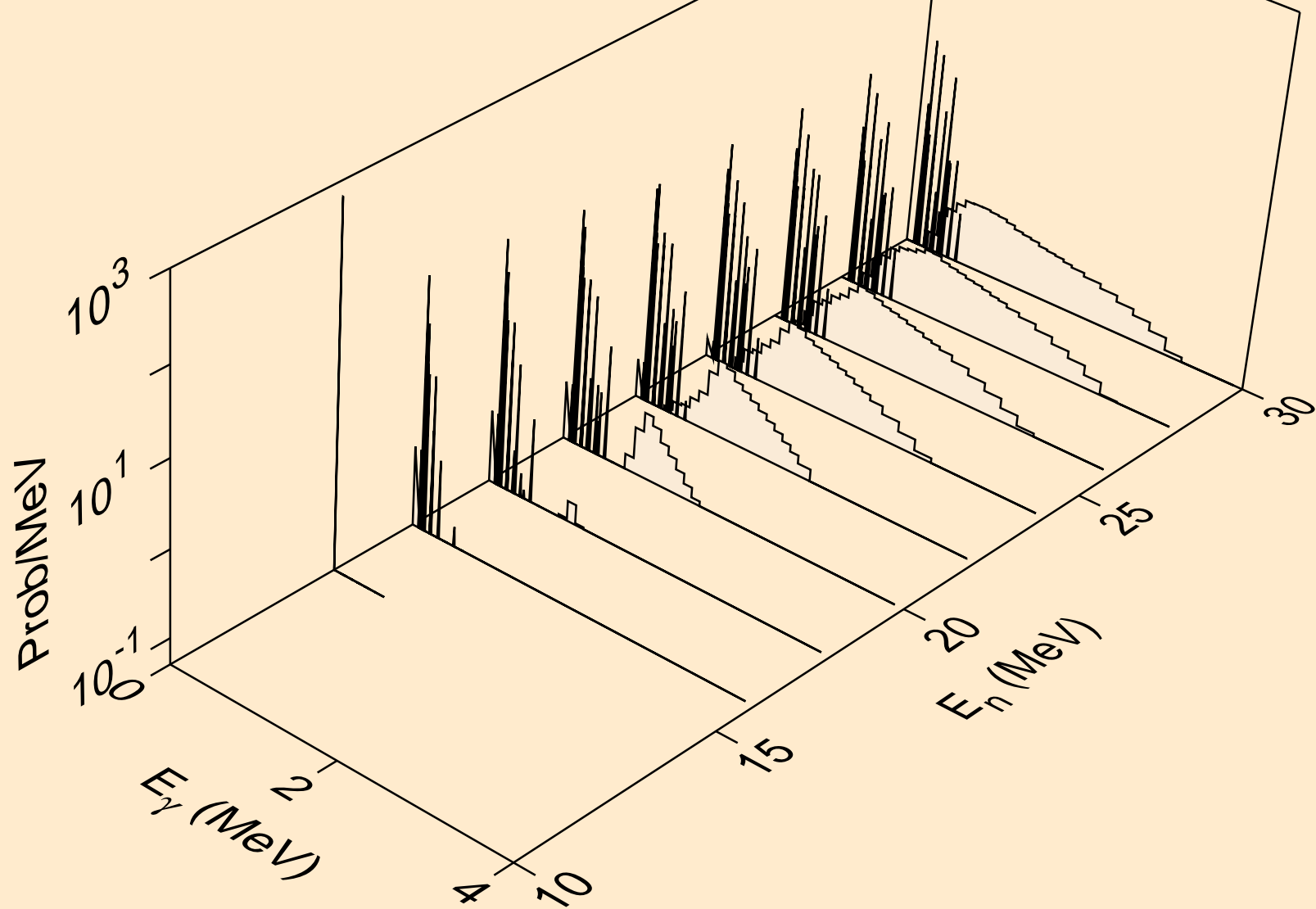




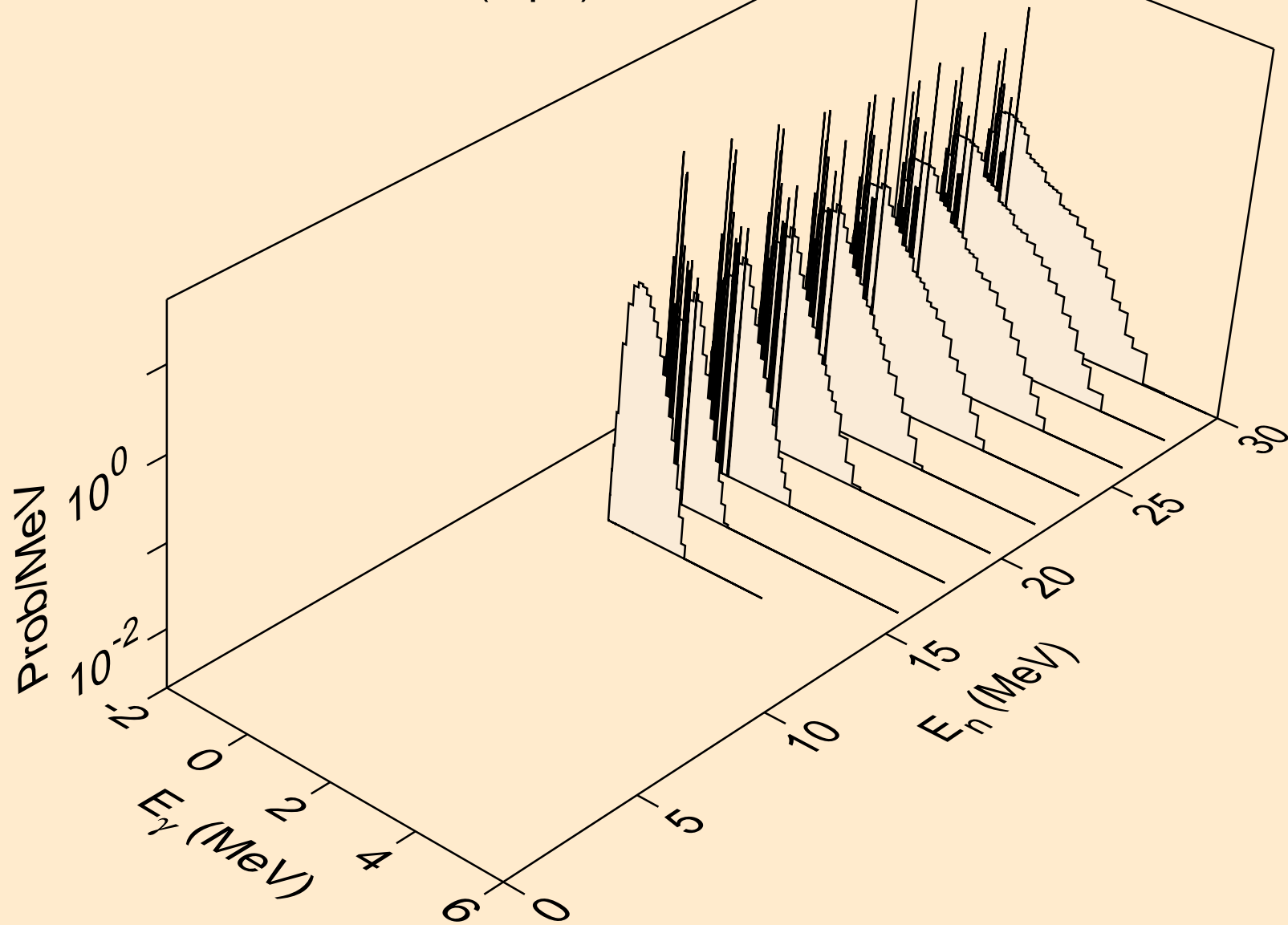
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2a)



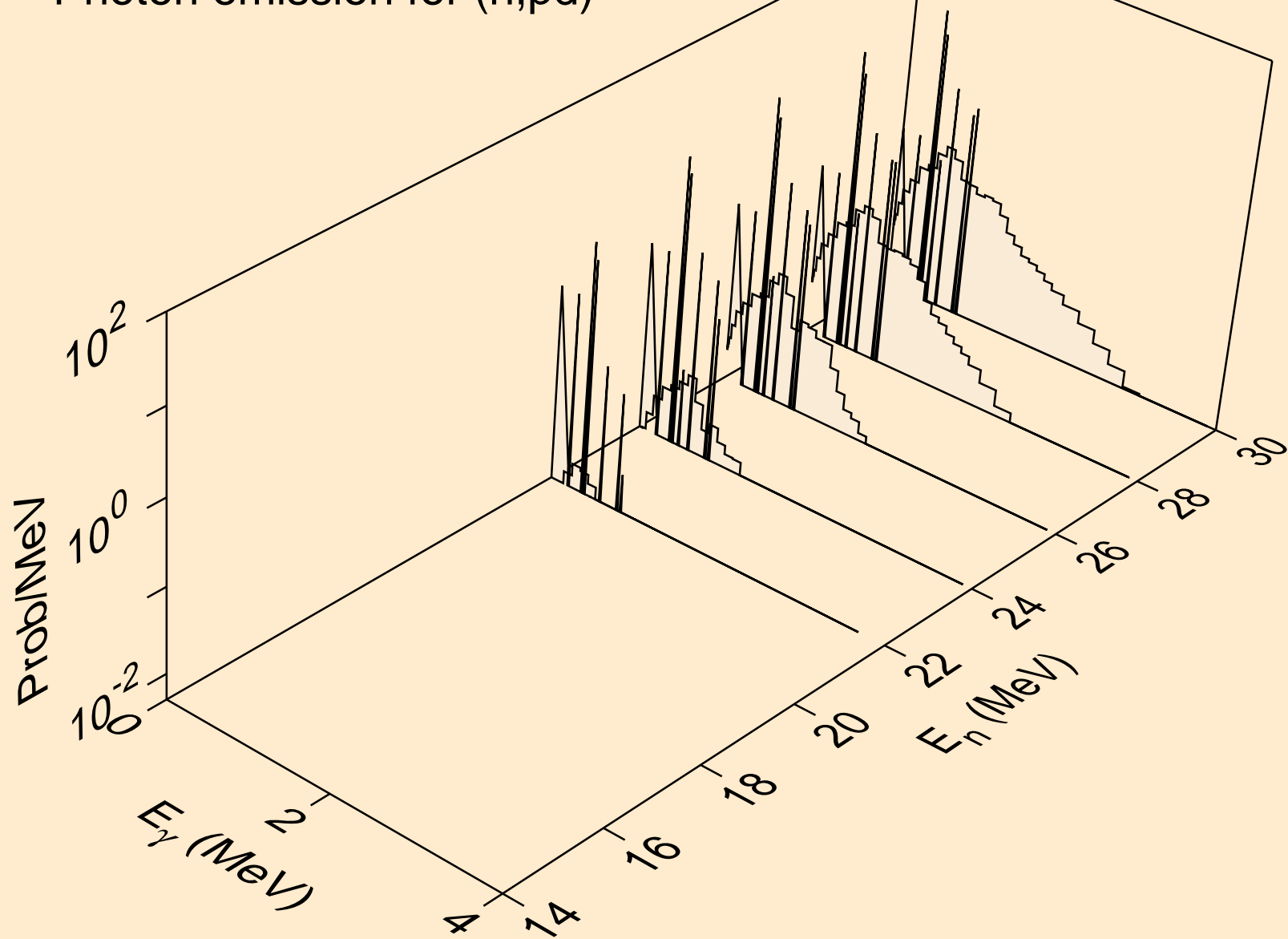
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,2p)



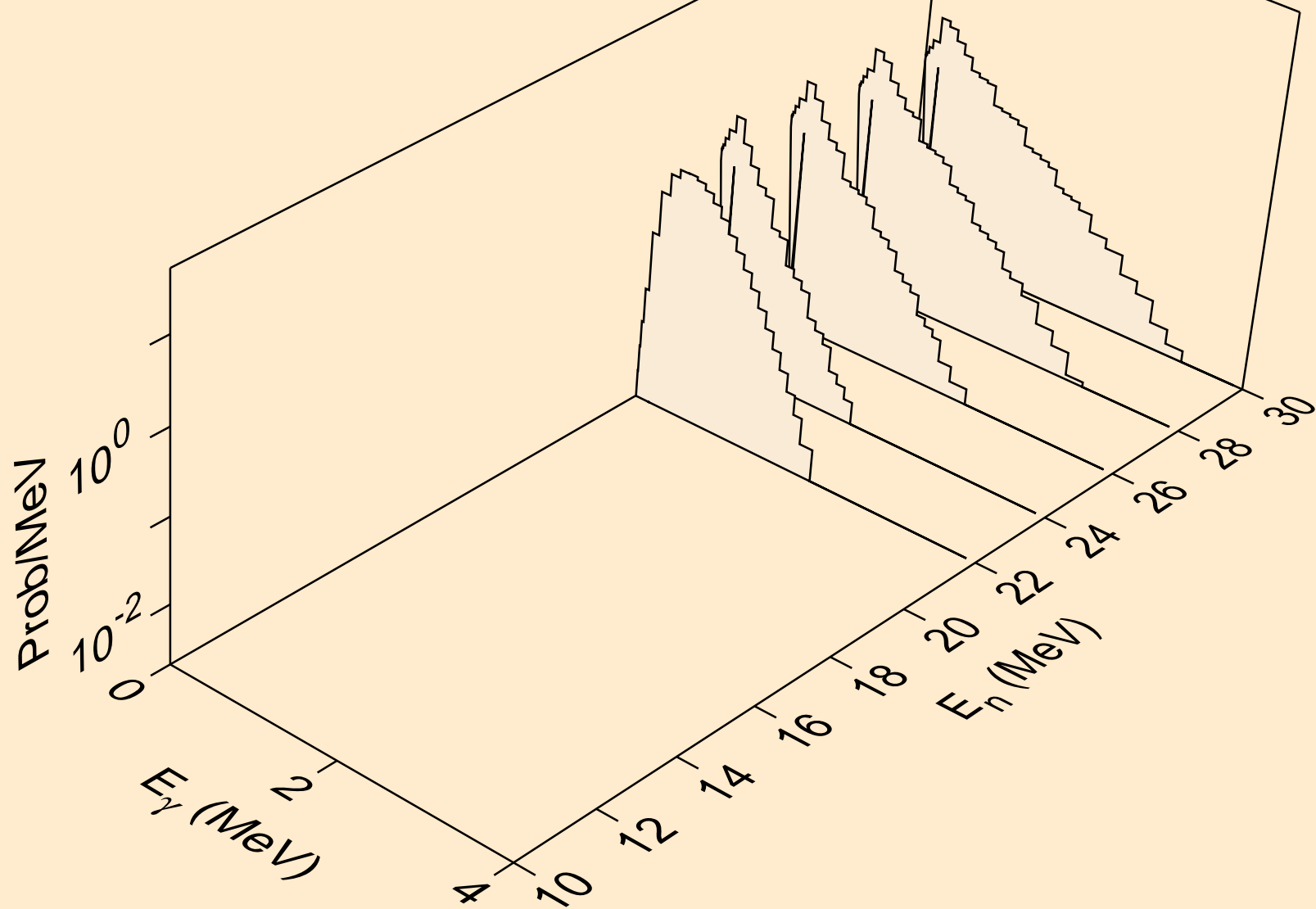
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pa)



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,pd)

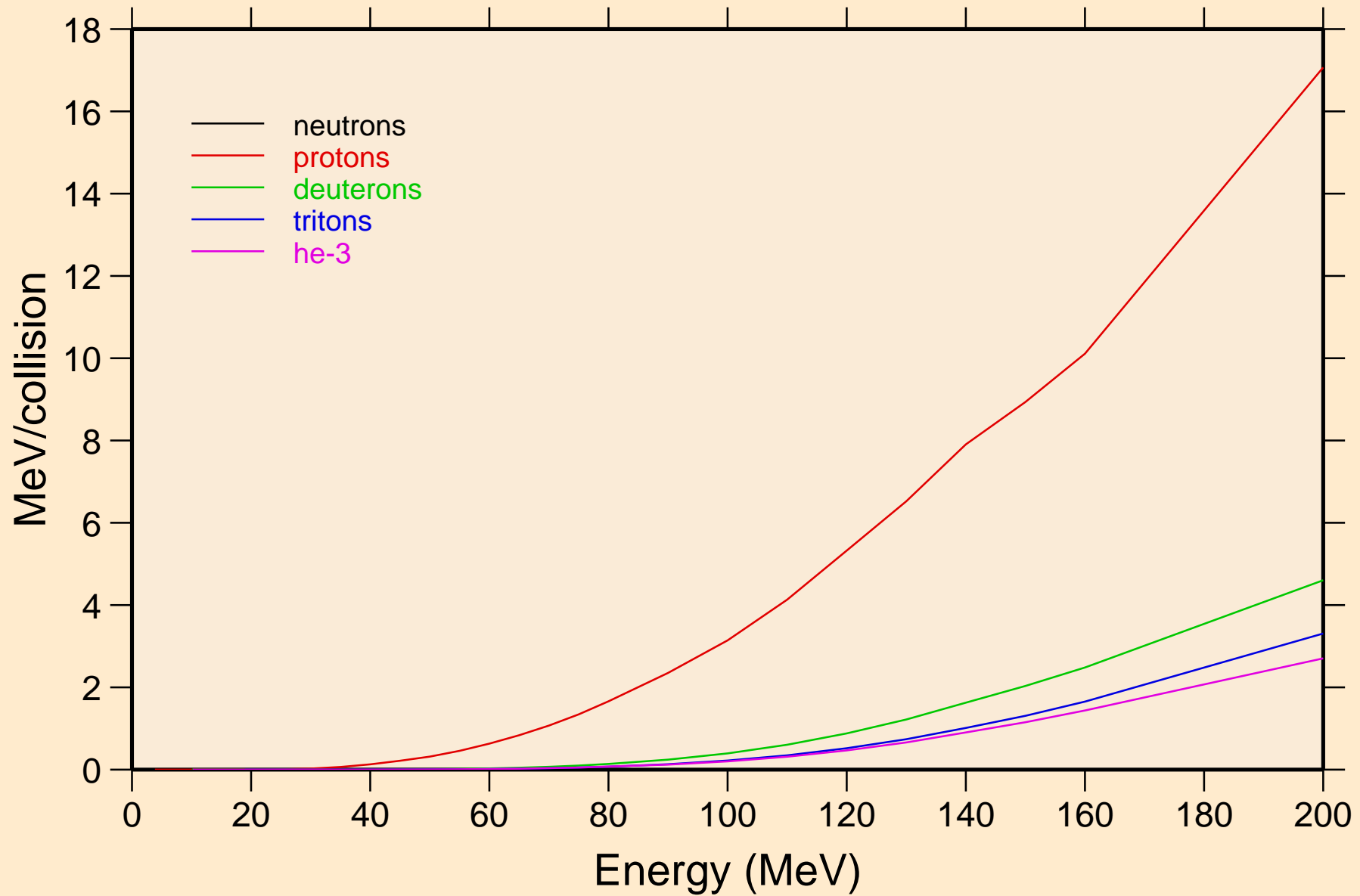


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Photon emission for (n,da)

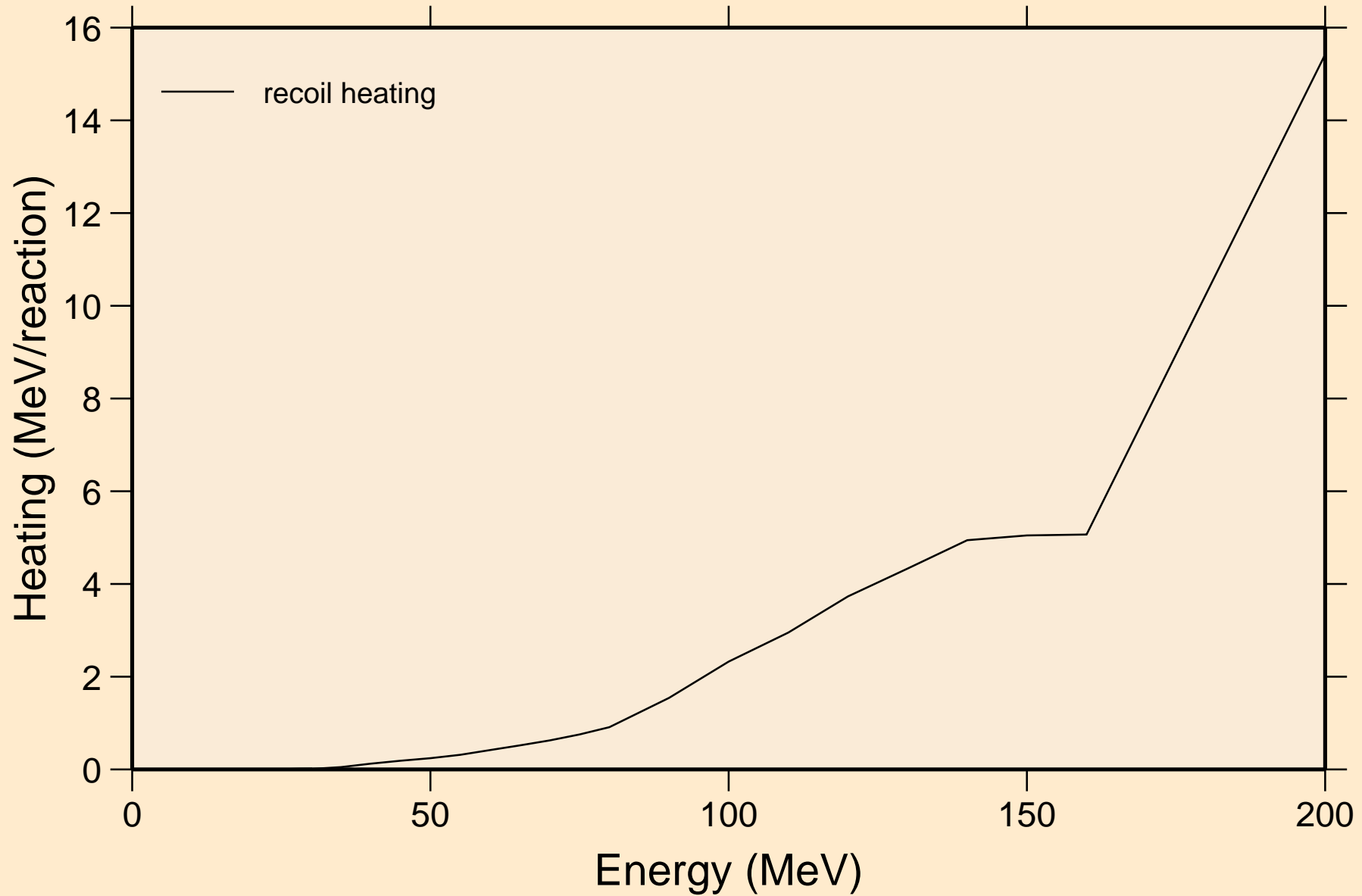


# HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K

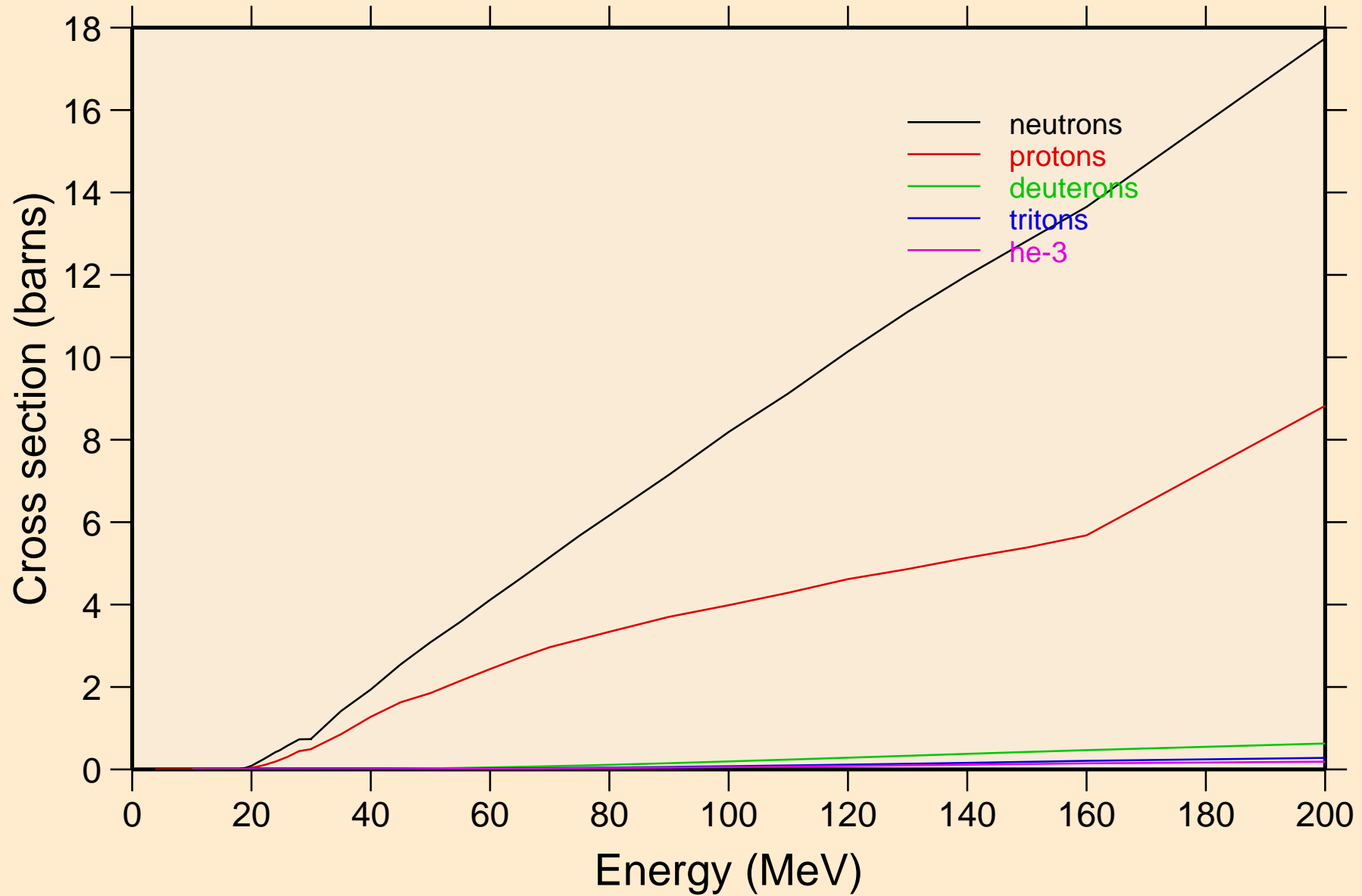
## Particle heating contributions



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Recoil Heating

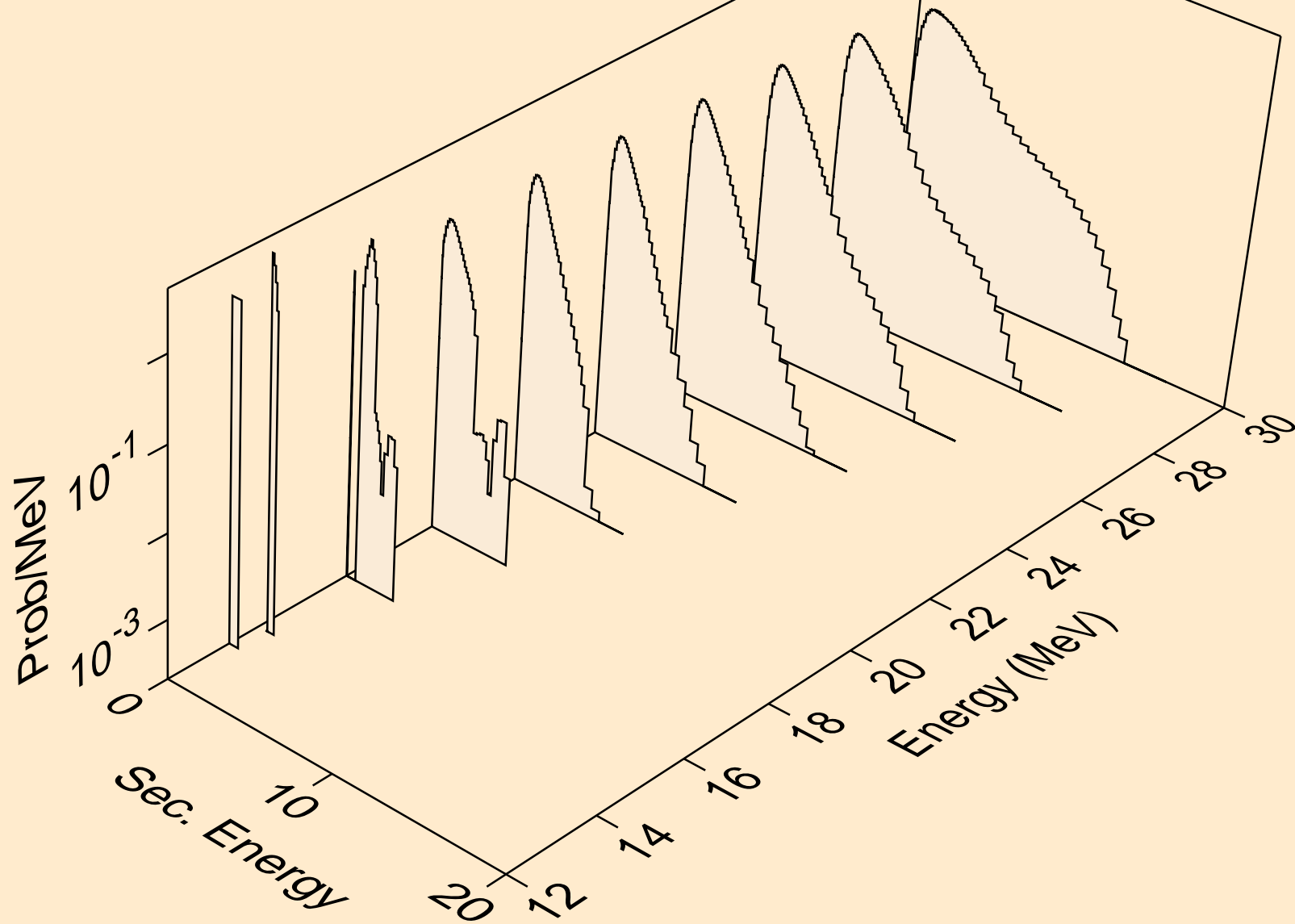


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
Particle production cross sections

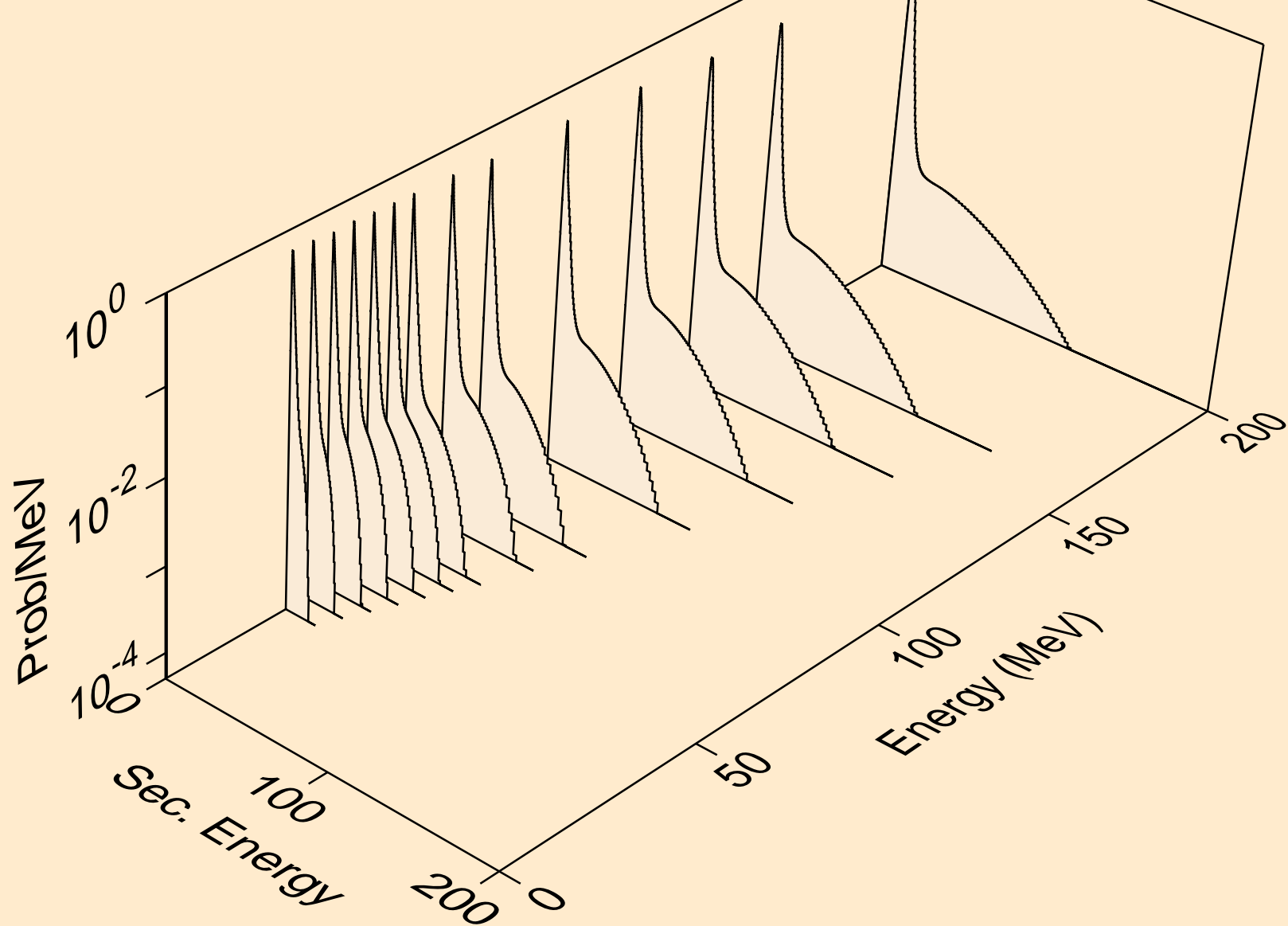




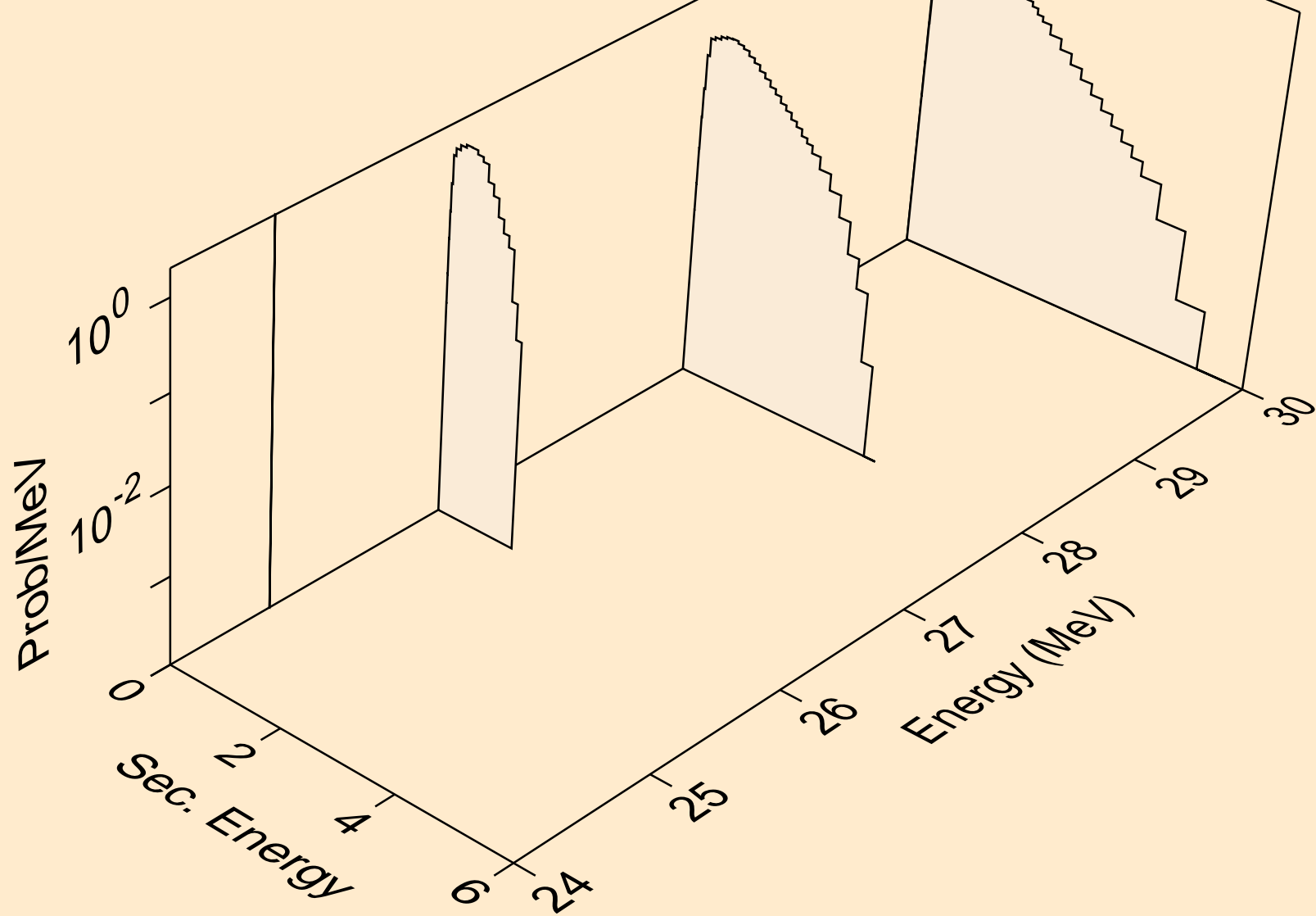
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n)



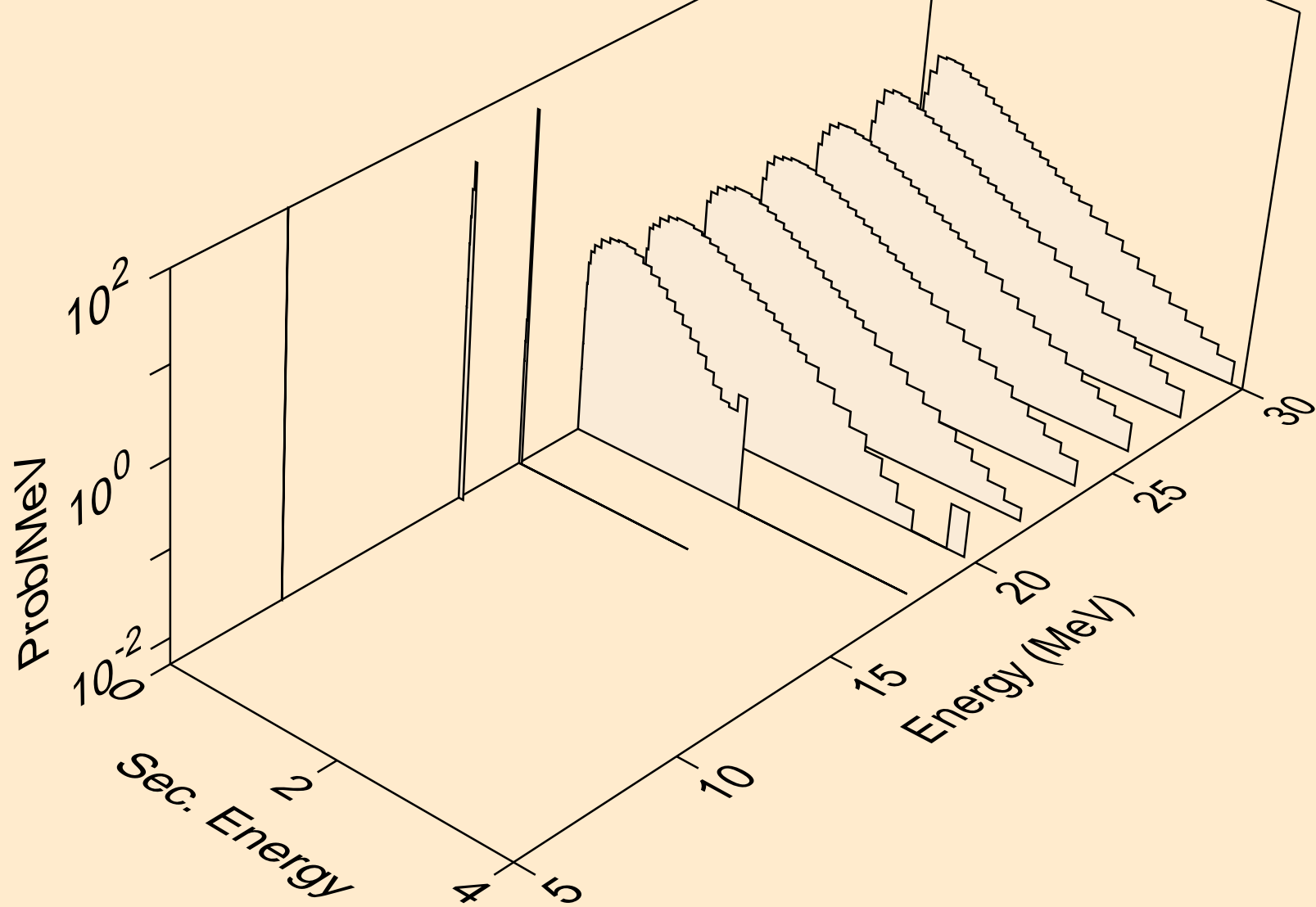
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,x)



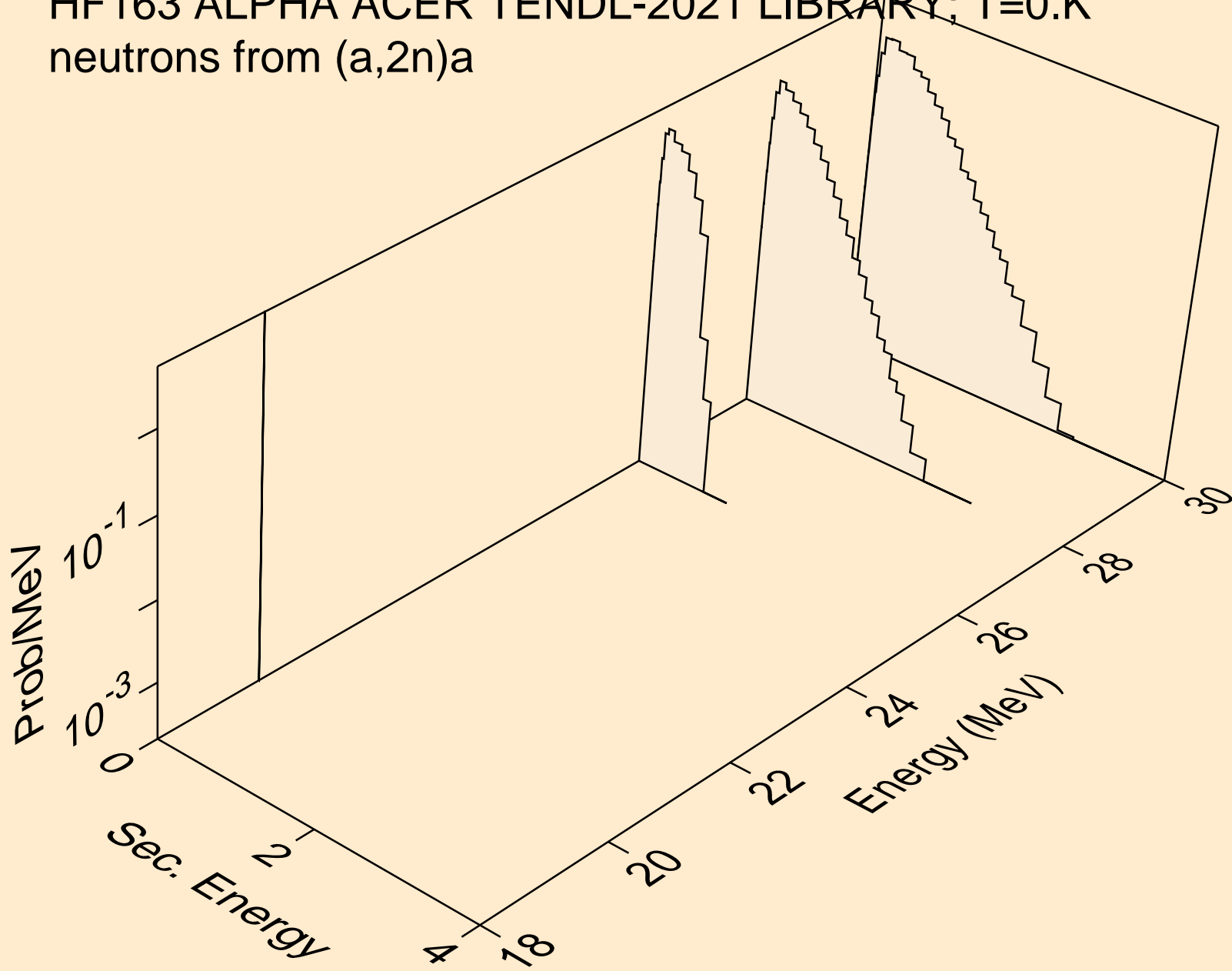
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2n)



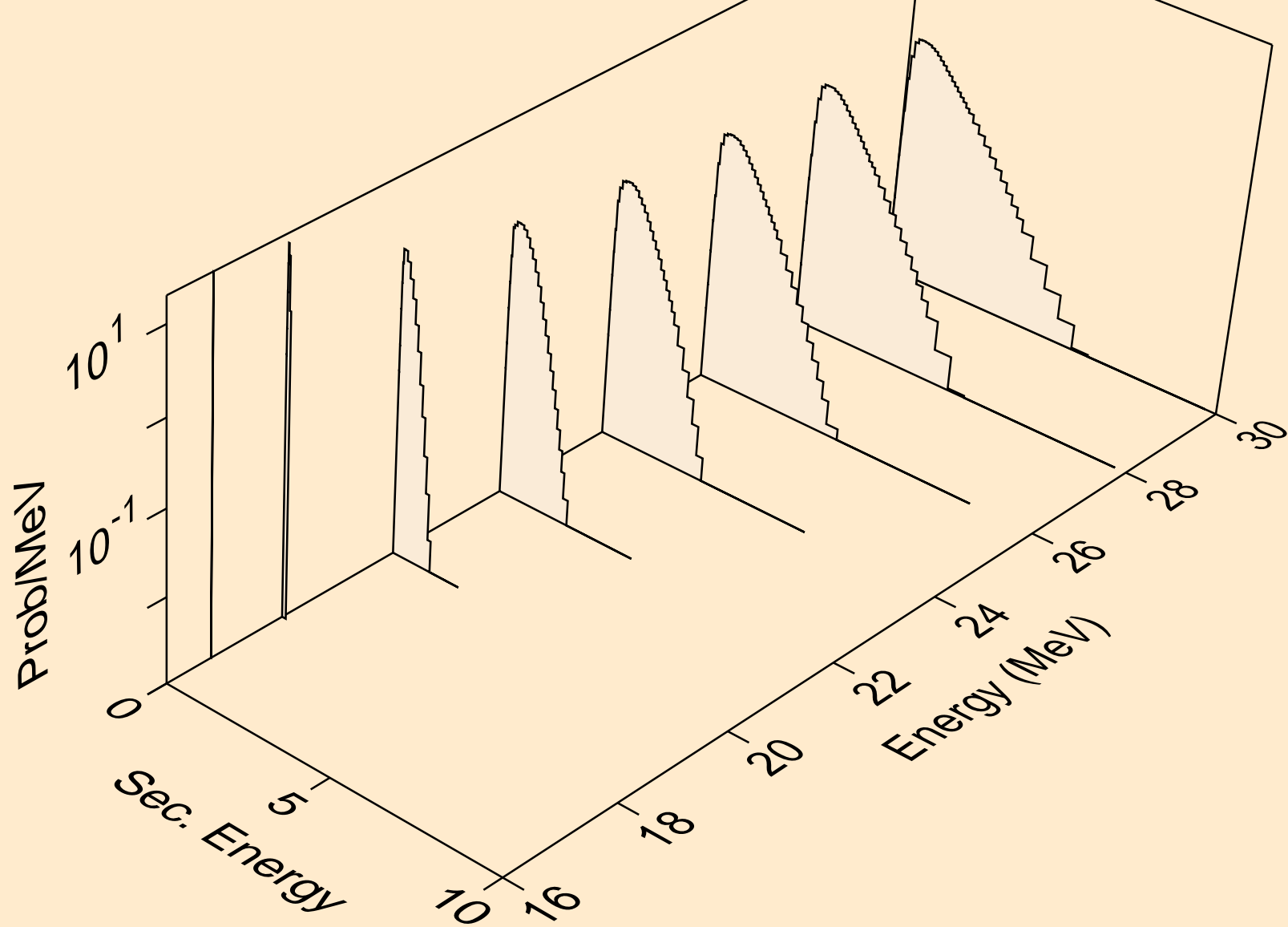
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)a



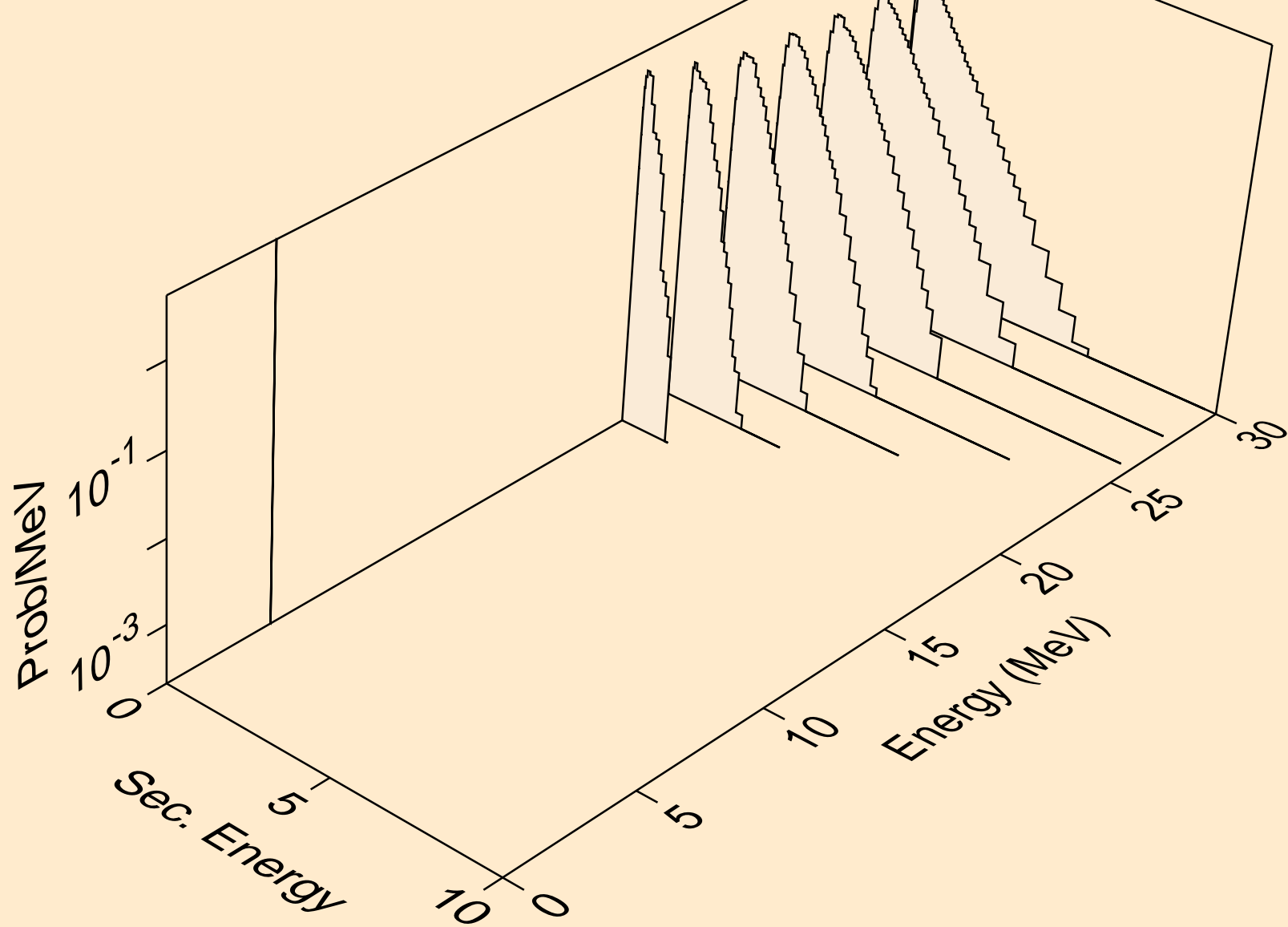
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2n)a



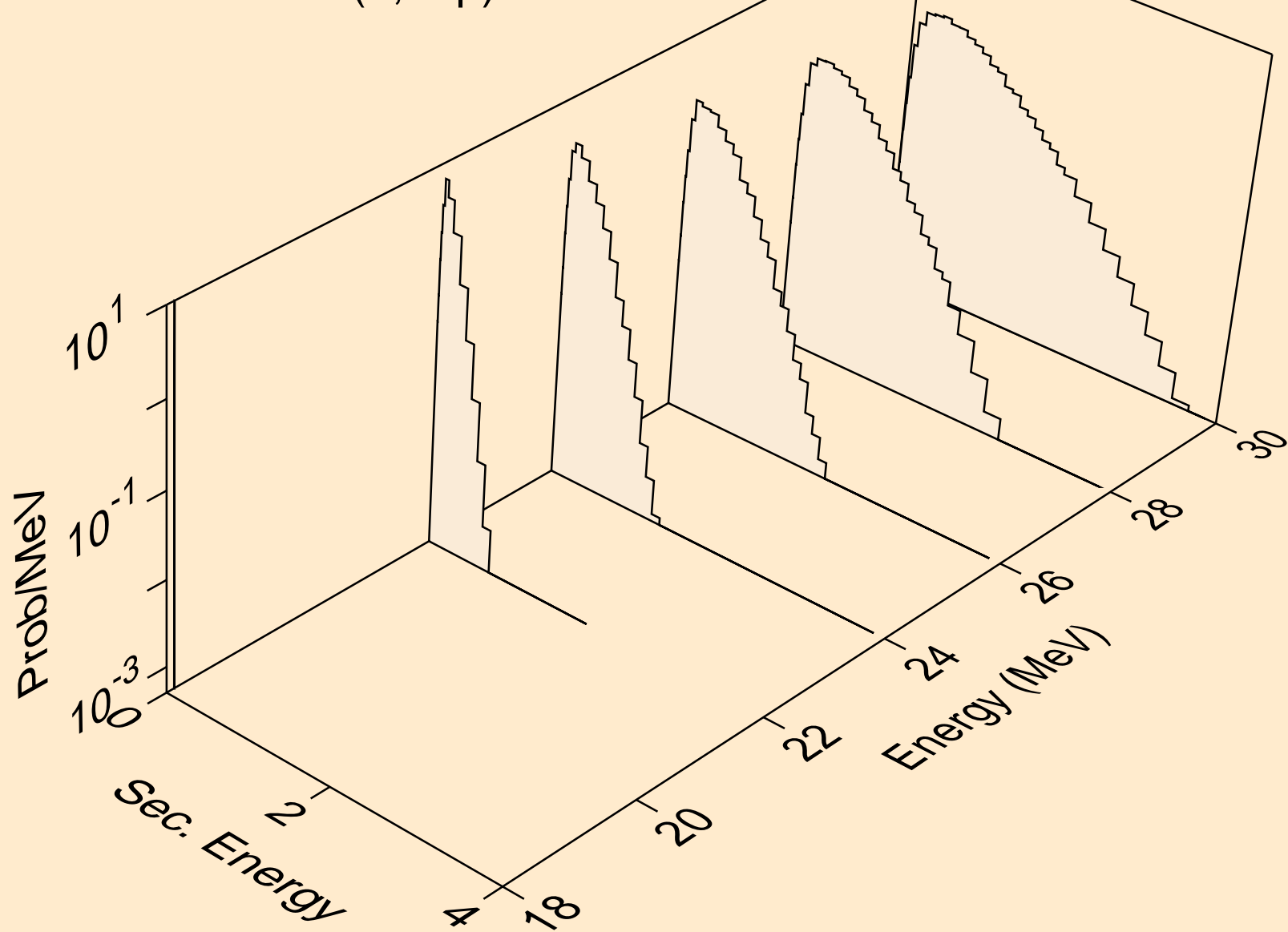
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)p



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,n\*)2a

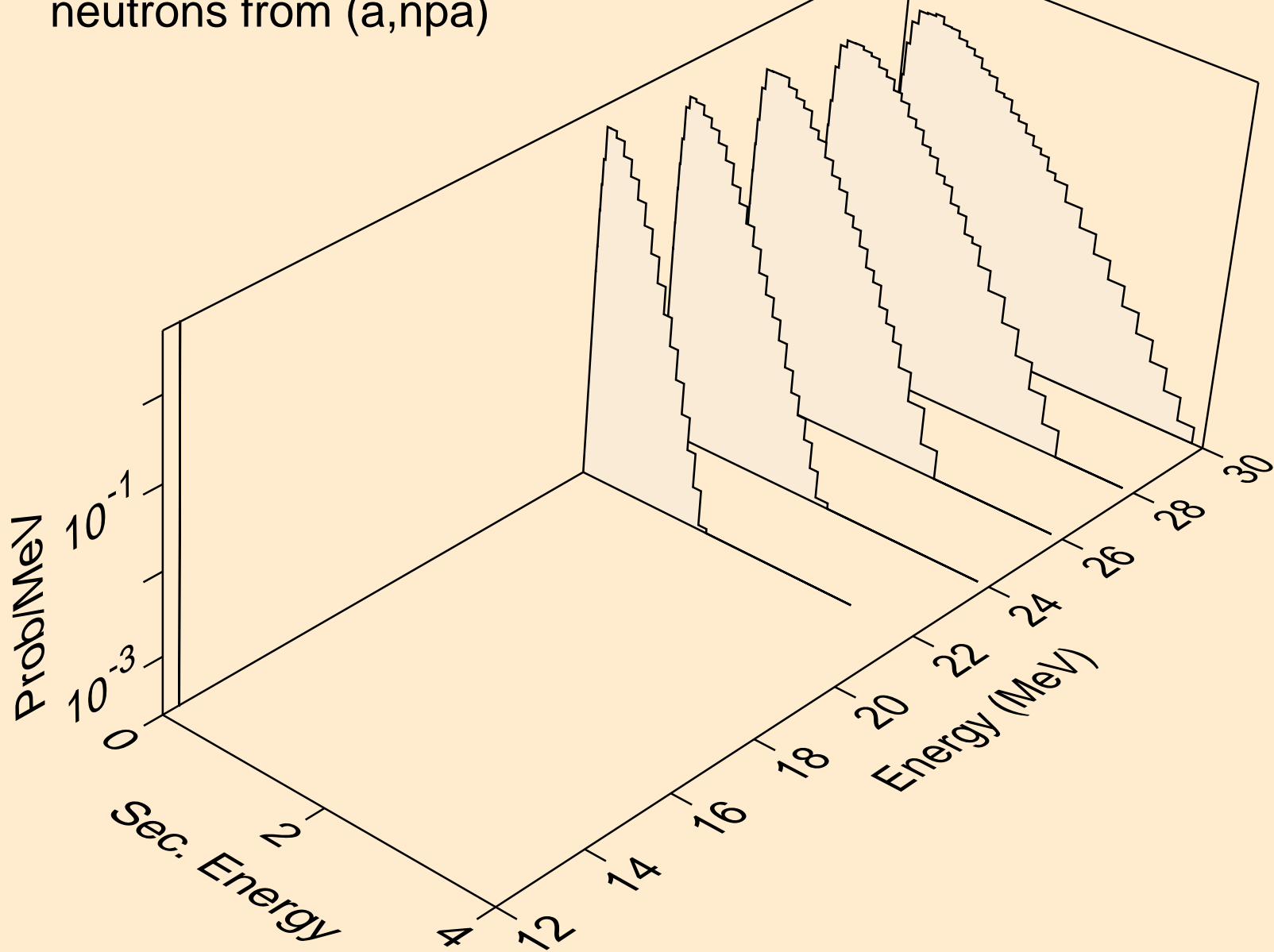


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,2np)

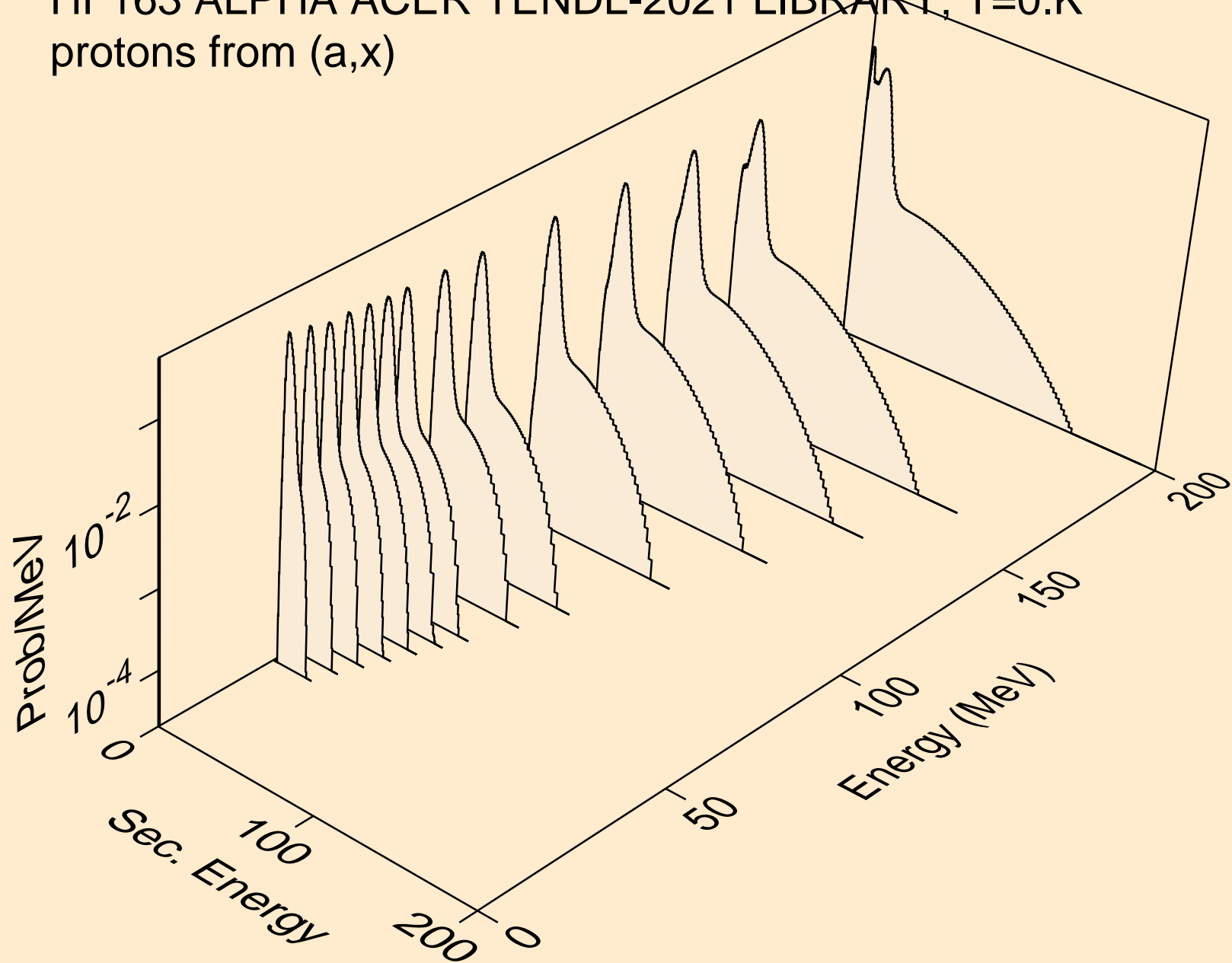




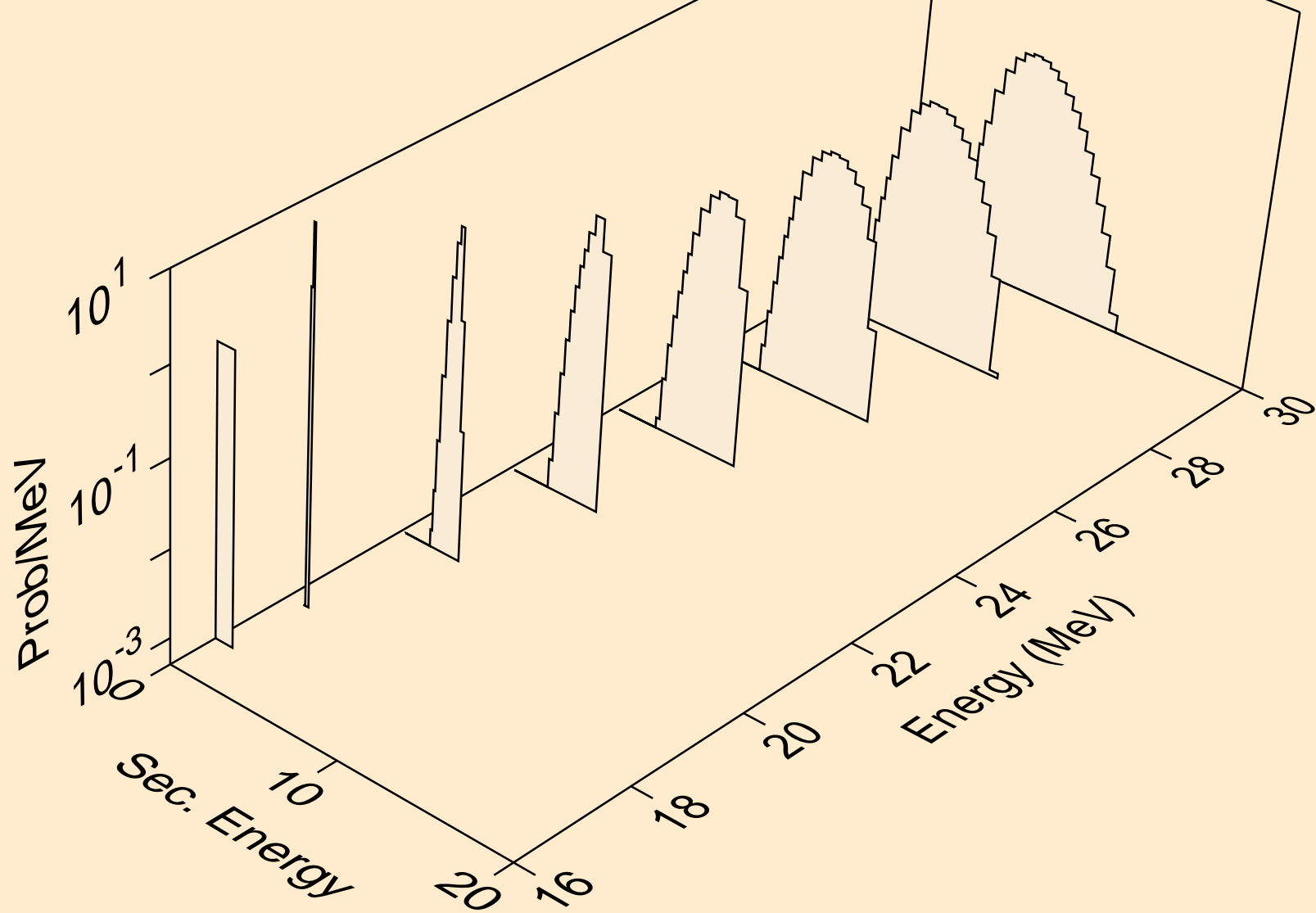
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
neutrons from (a,npa)



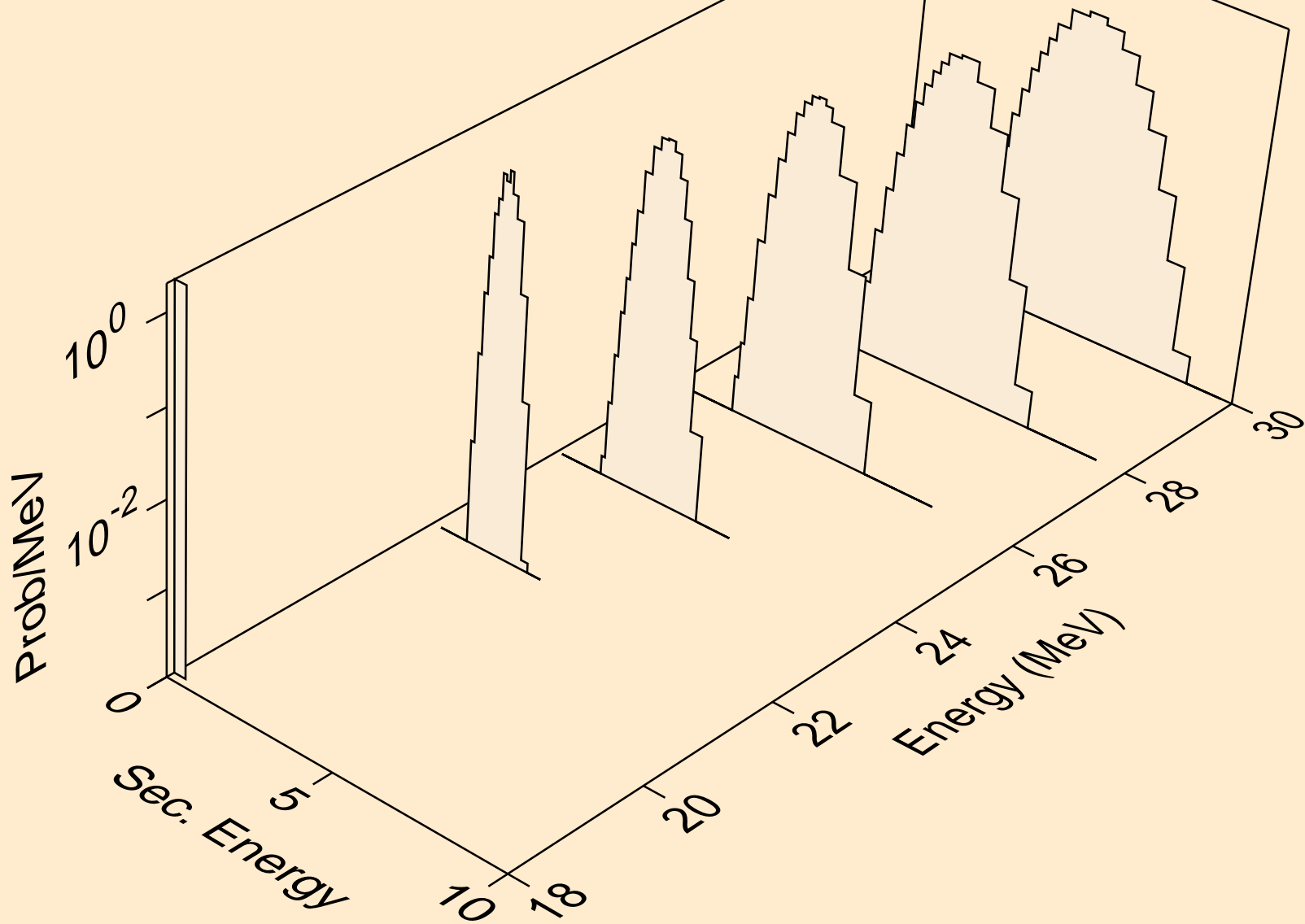
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,x)



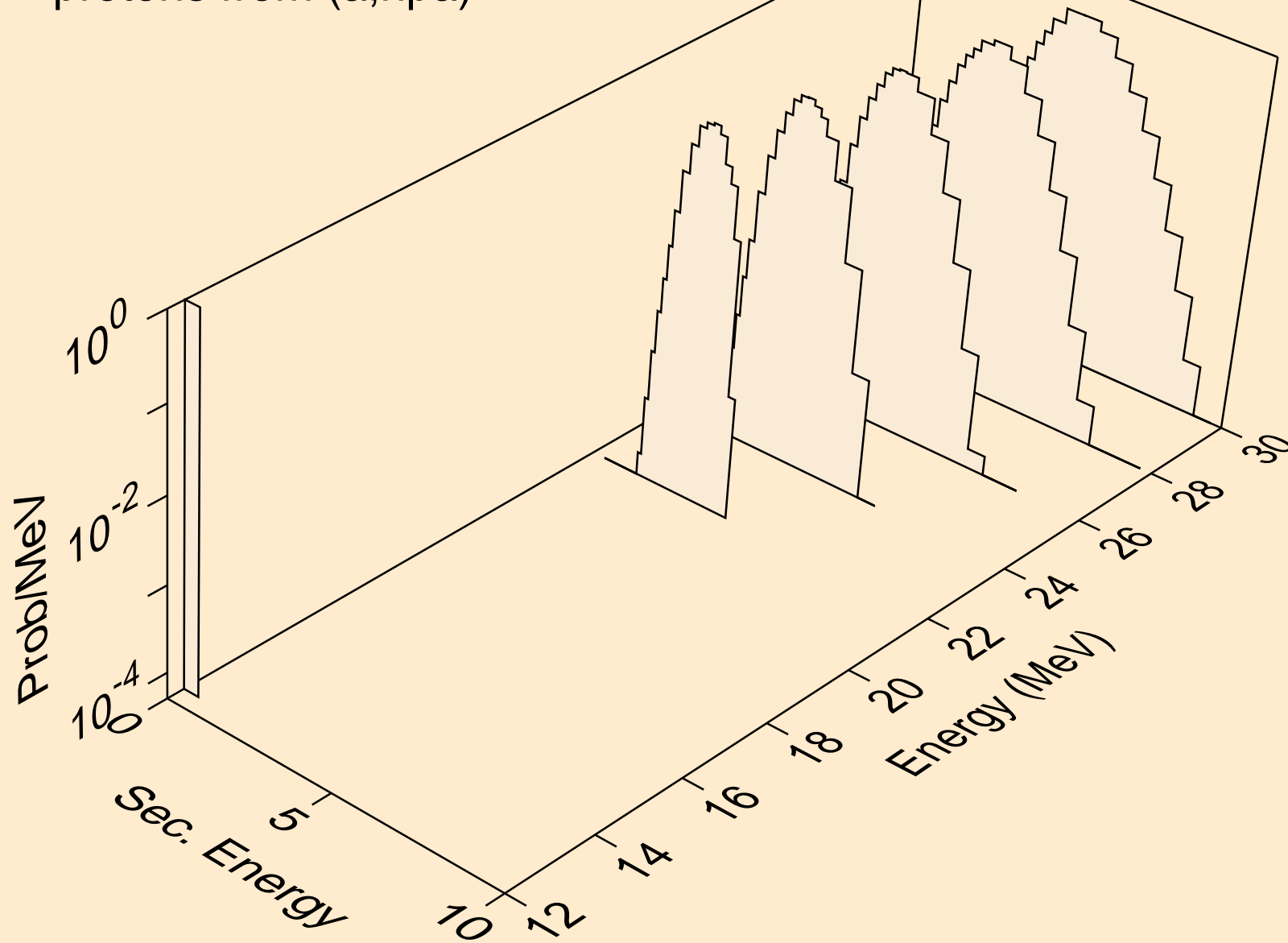
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,n\*)p



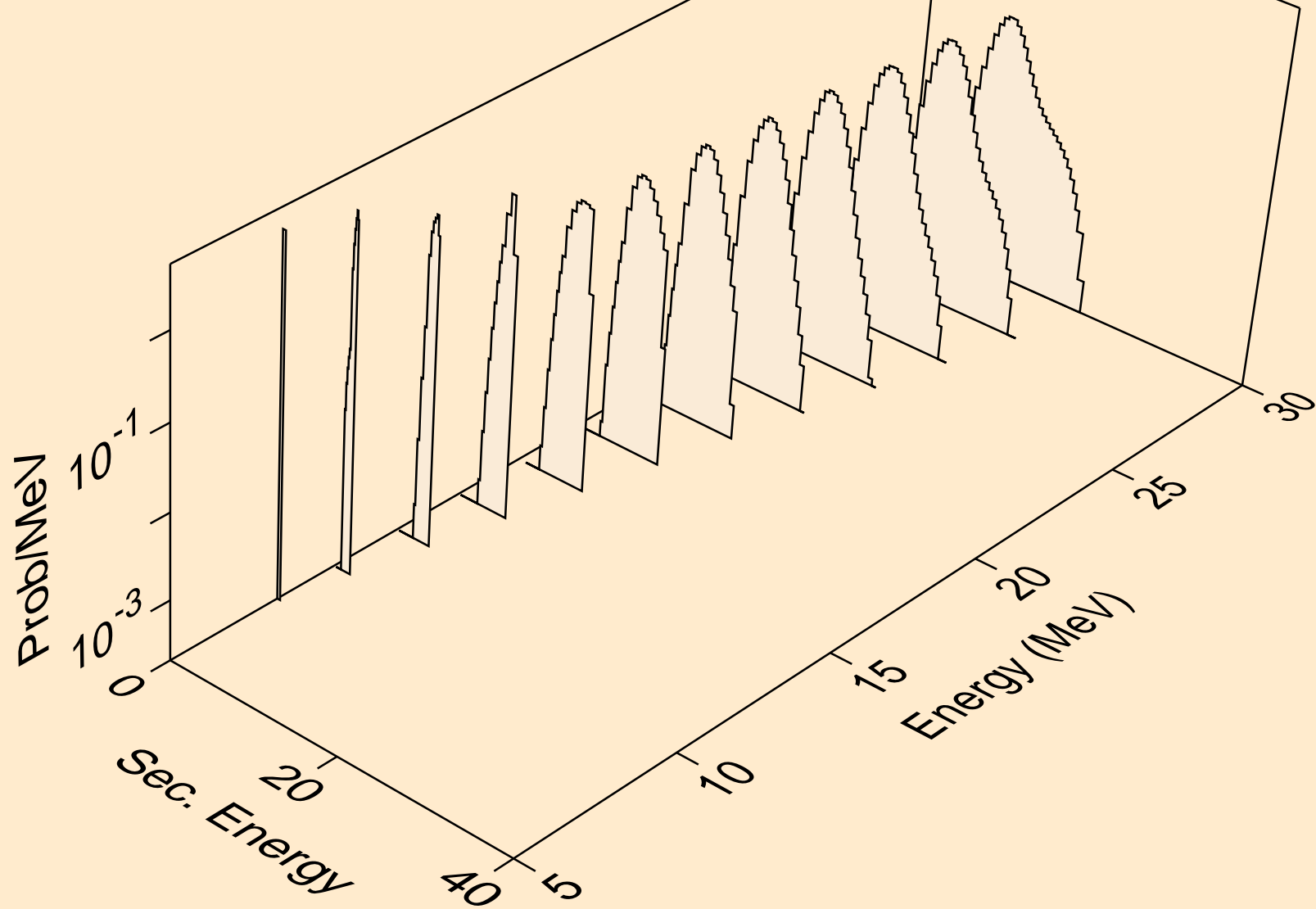
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,2np)



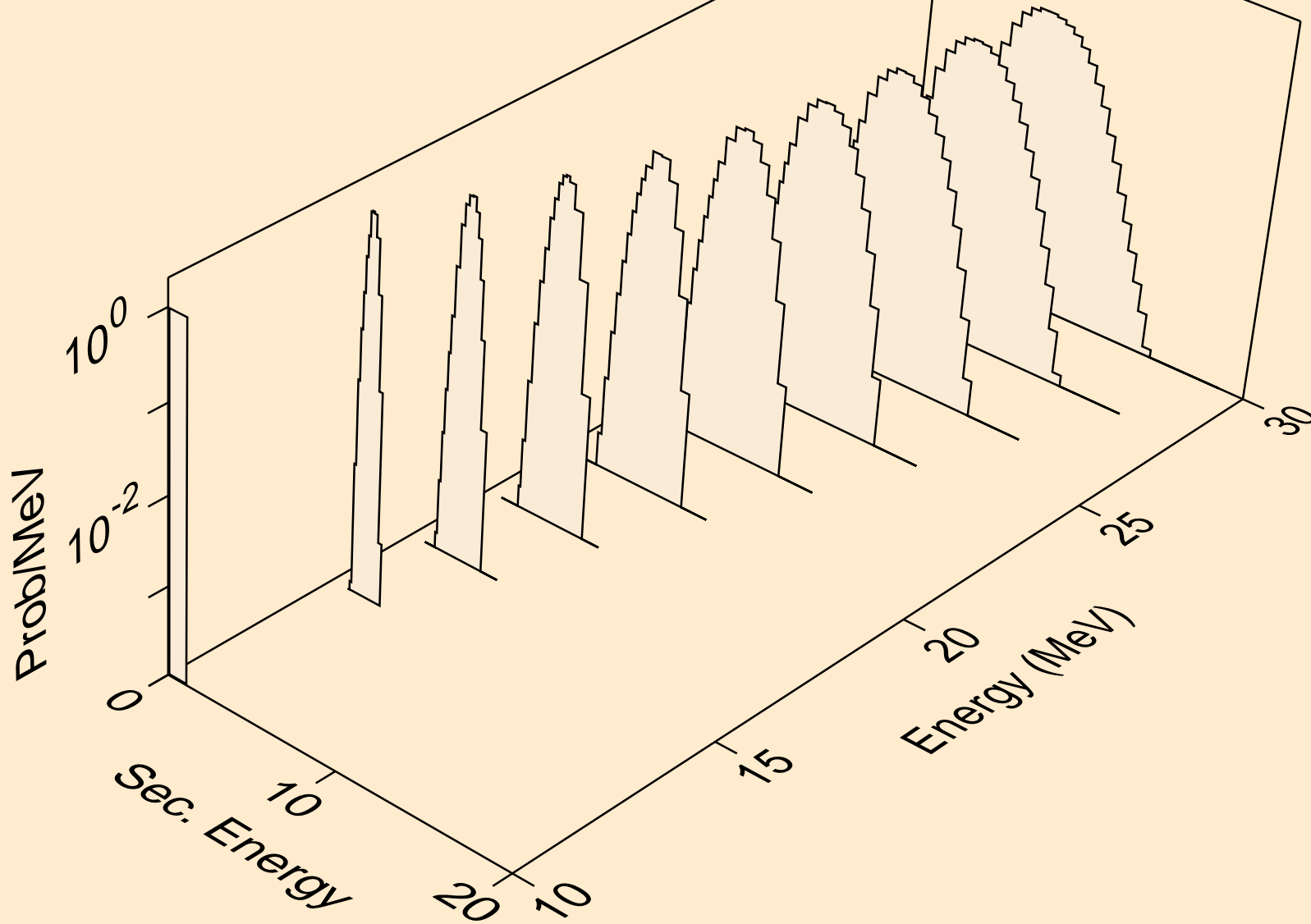
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,npa)



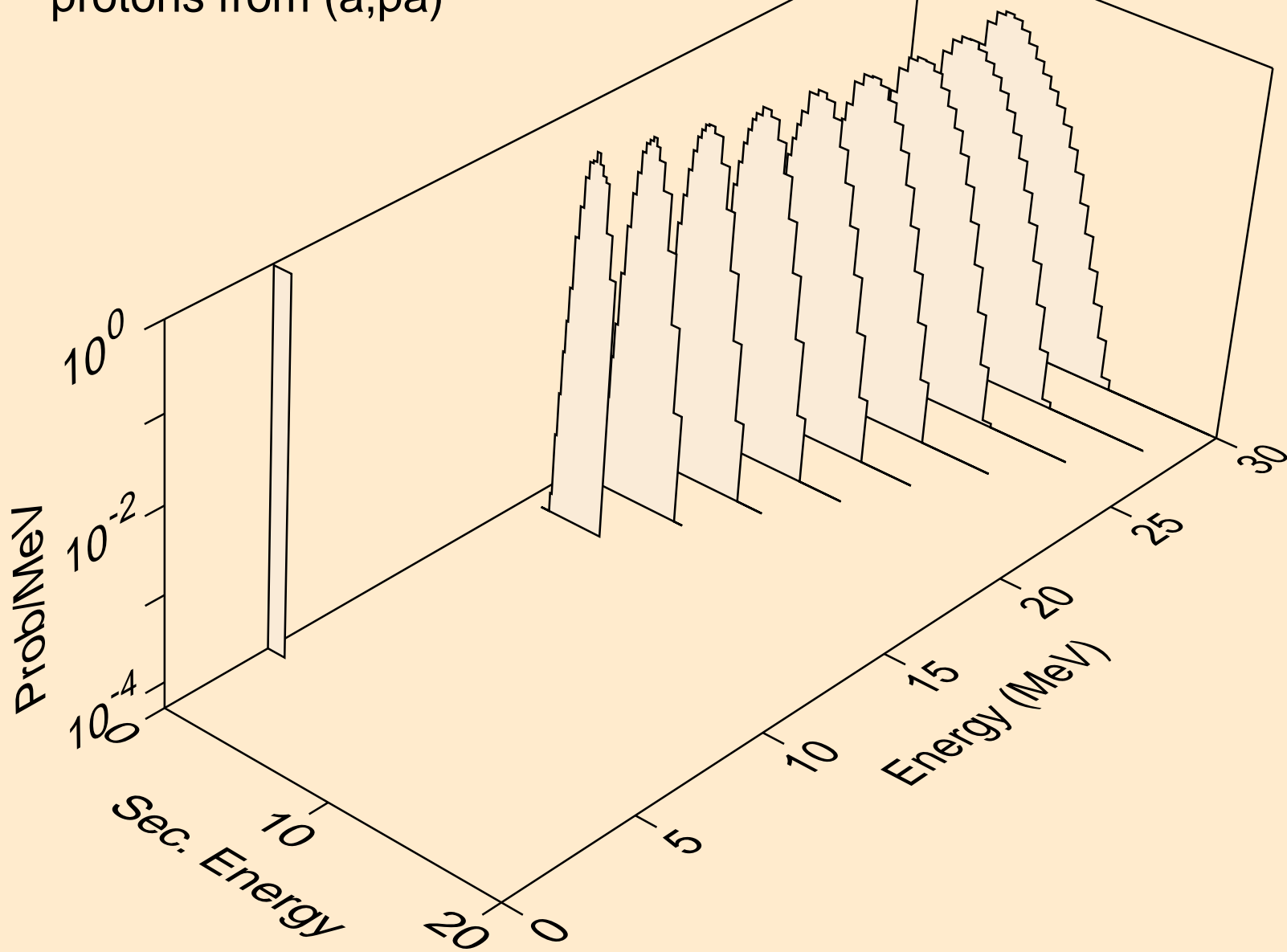
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,p)



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,2p)

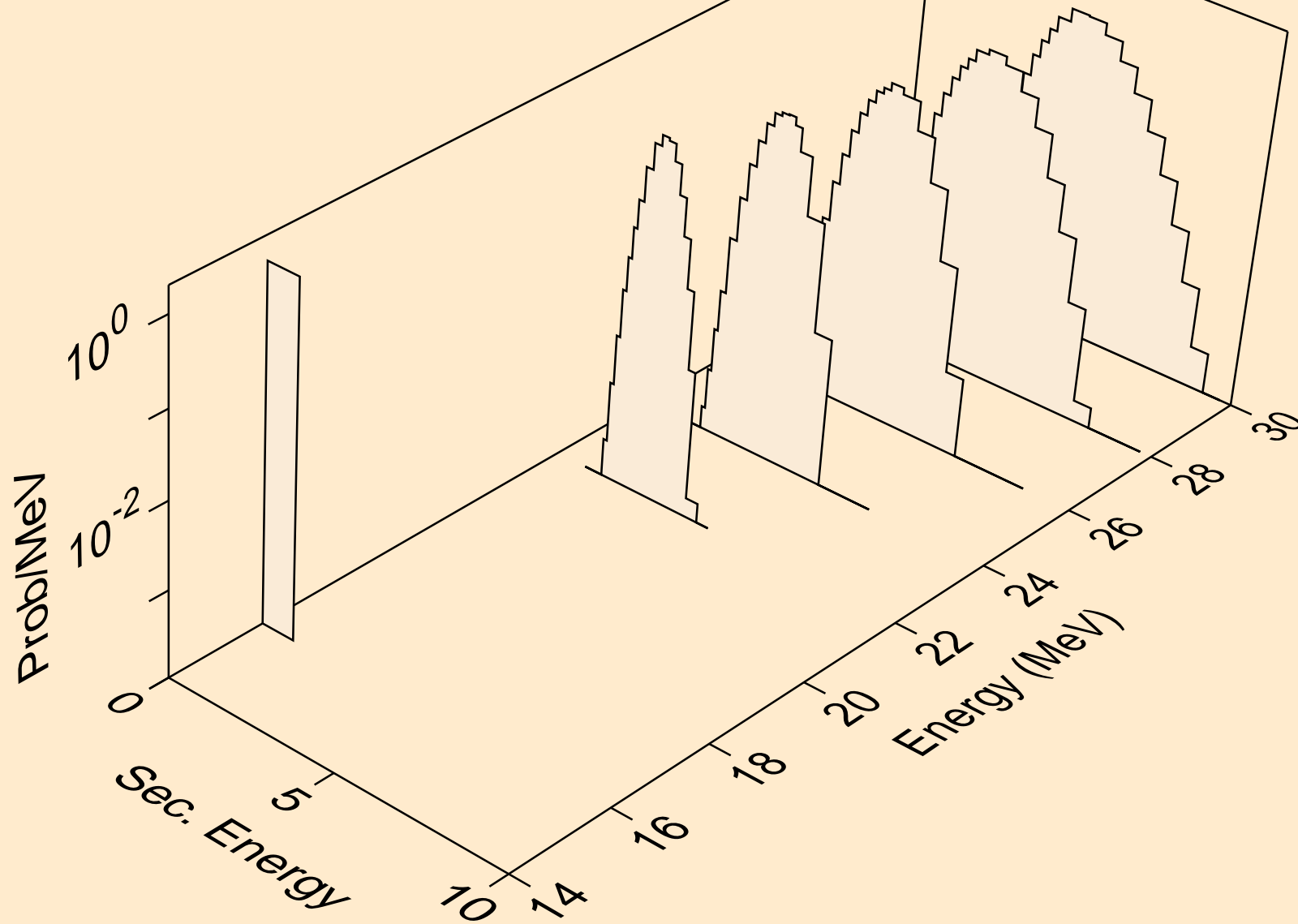


HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,pa)

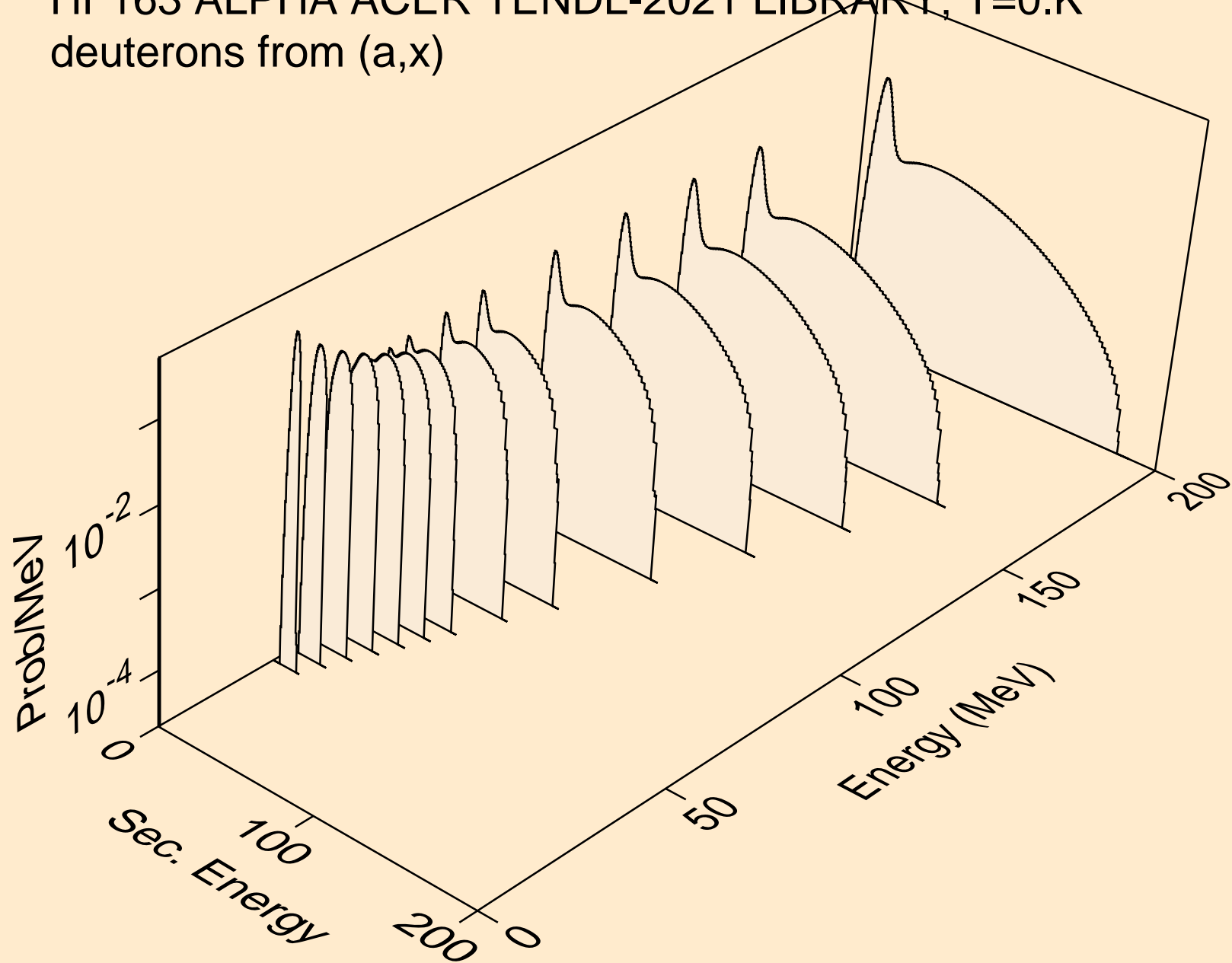




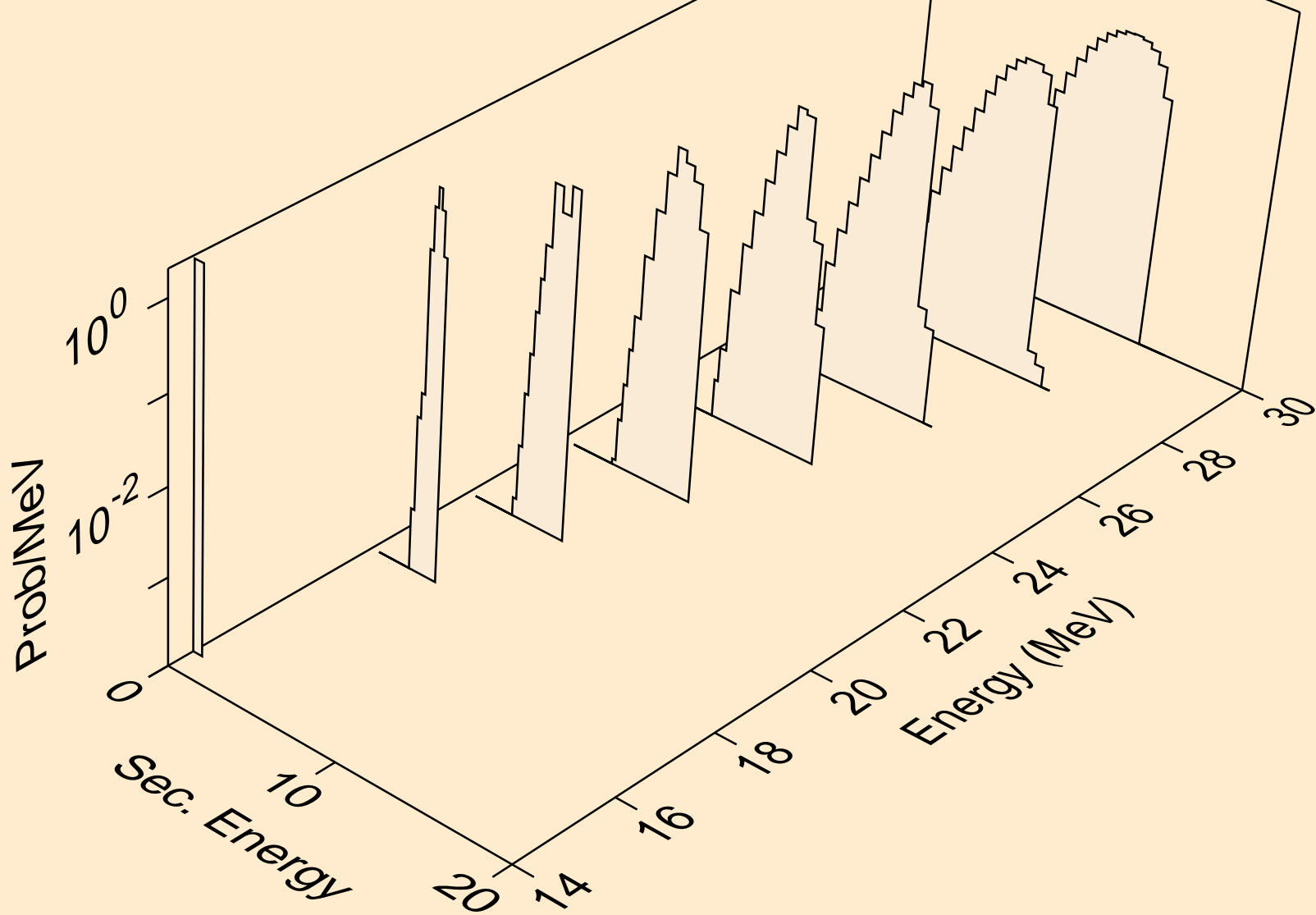
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
protons from (a,pd)



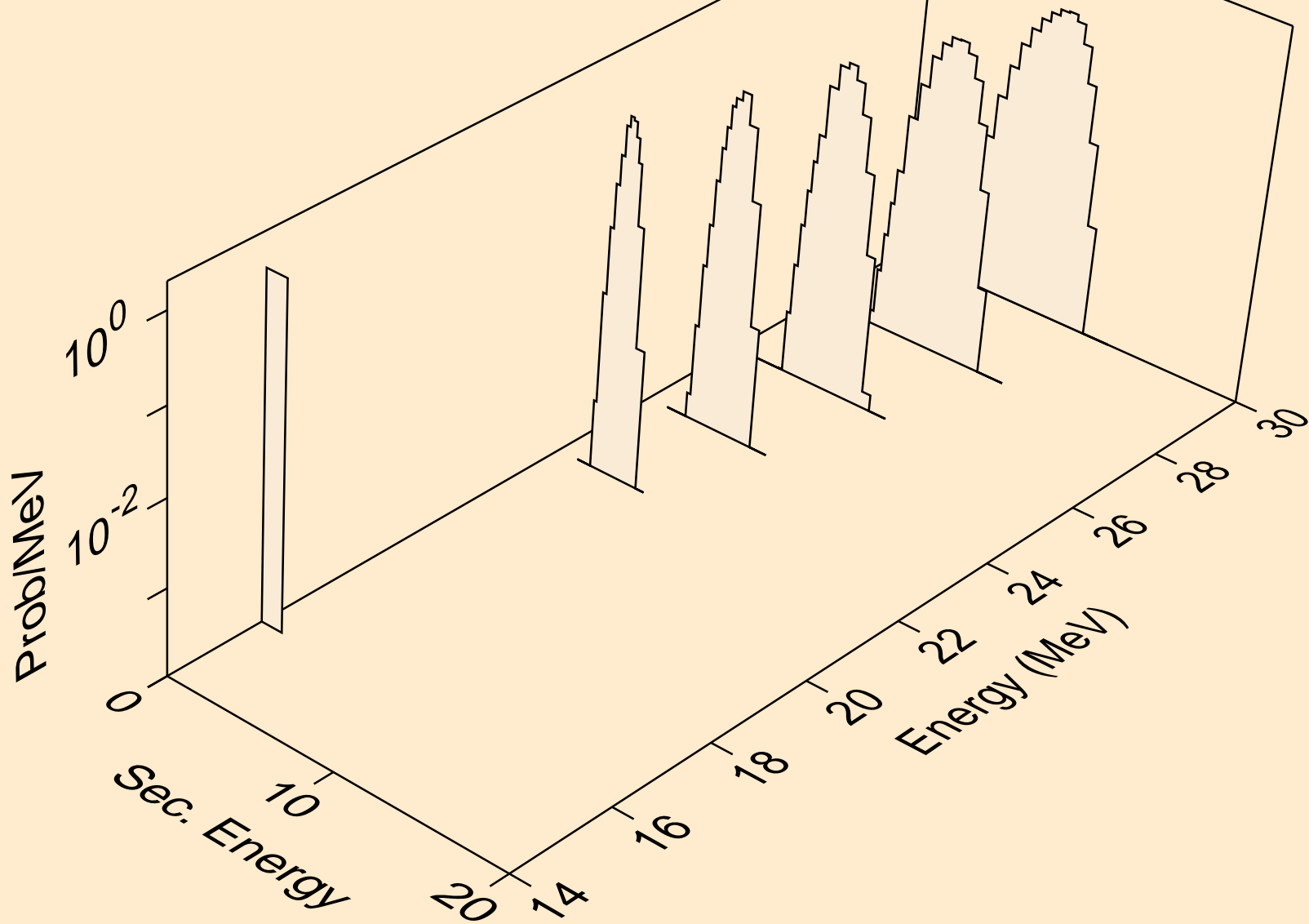
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,x)



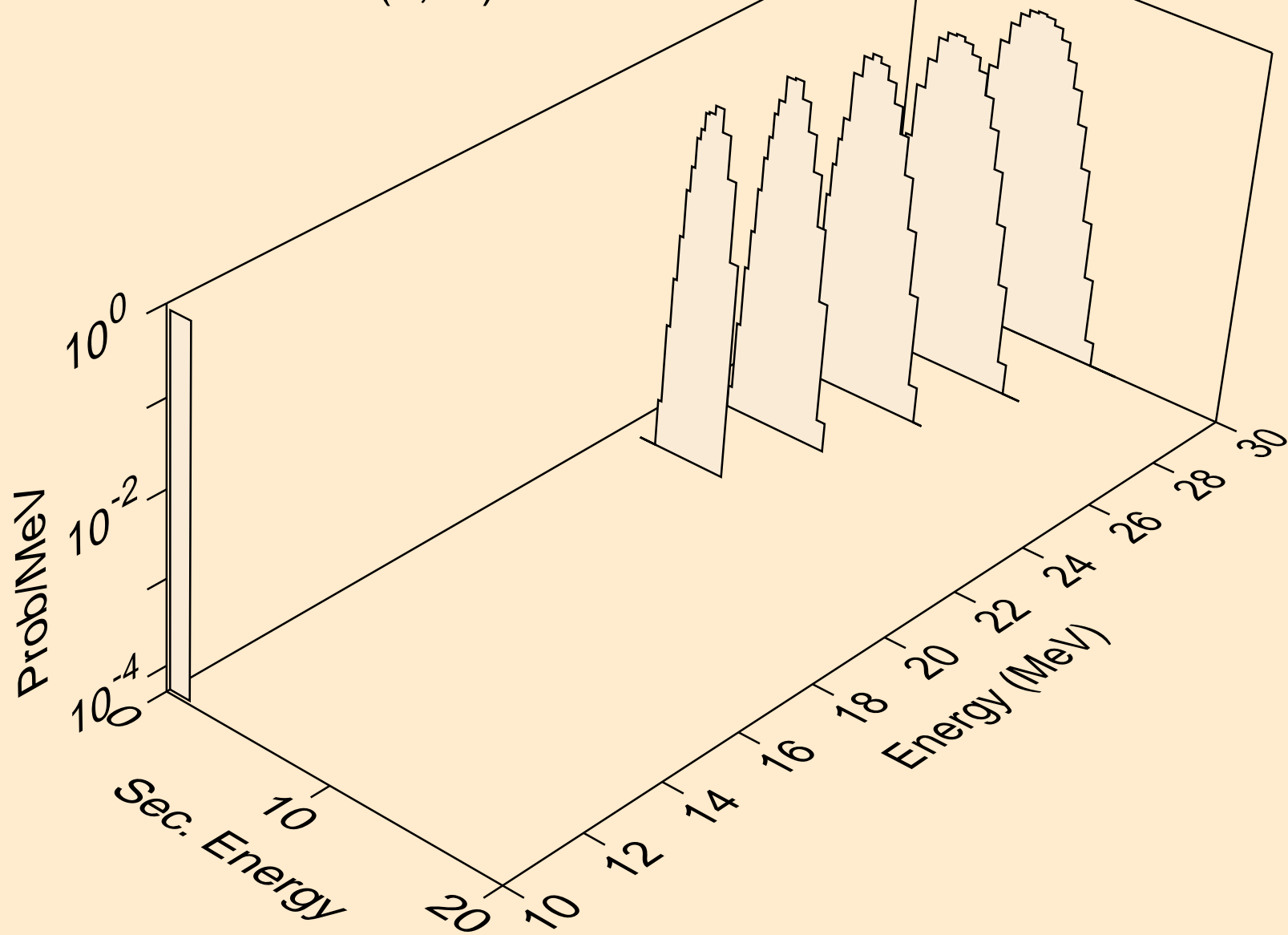
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,d)



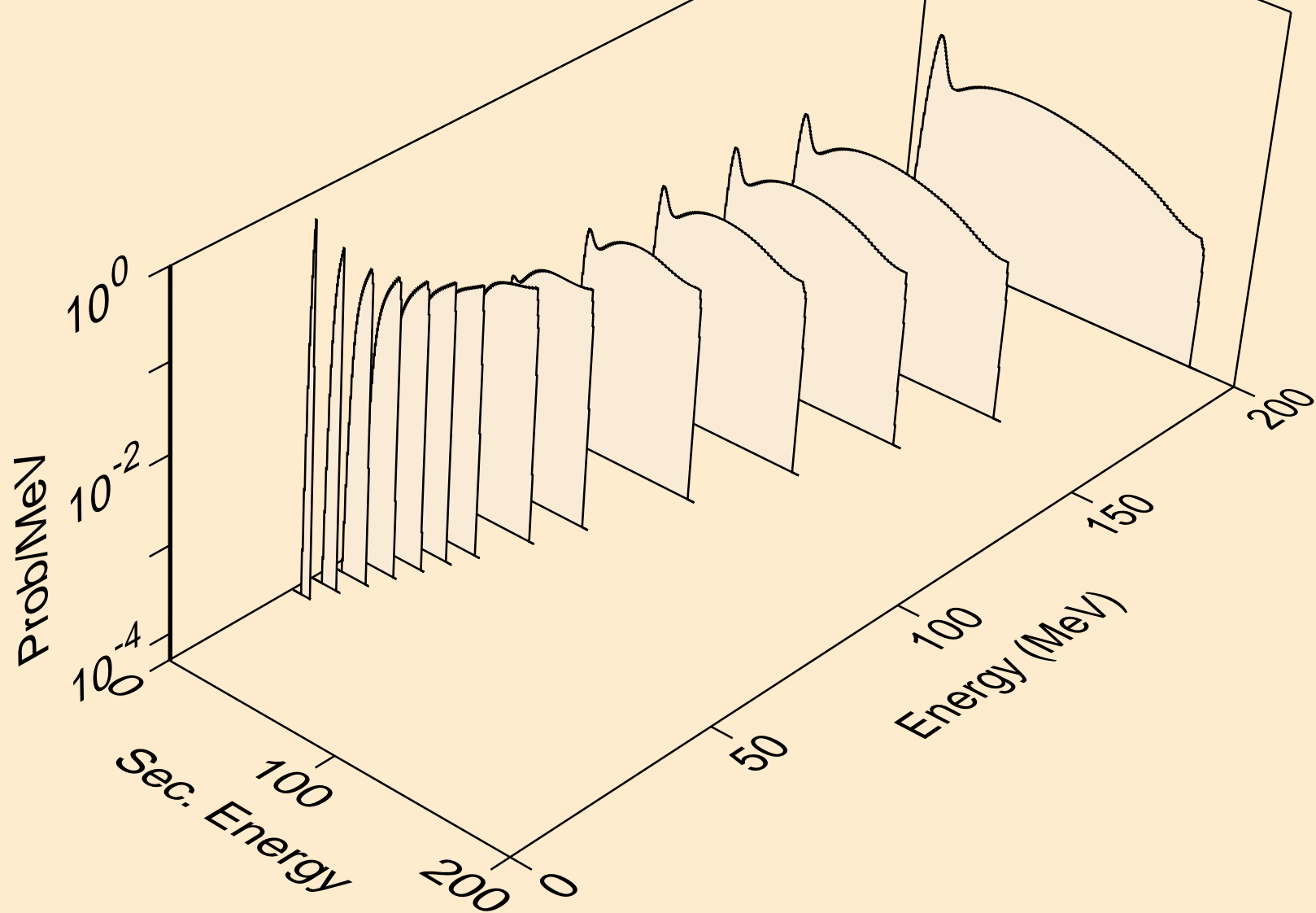
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,pd)



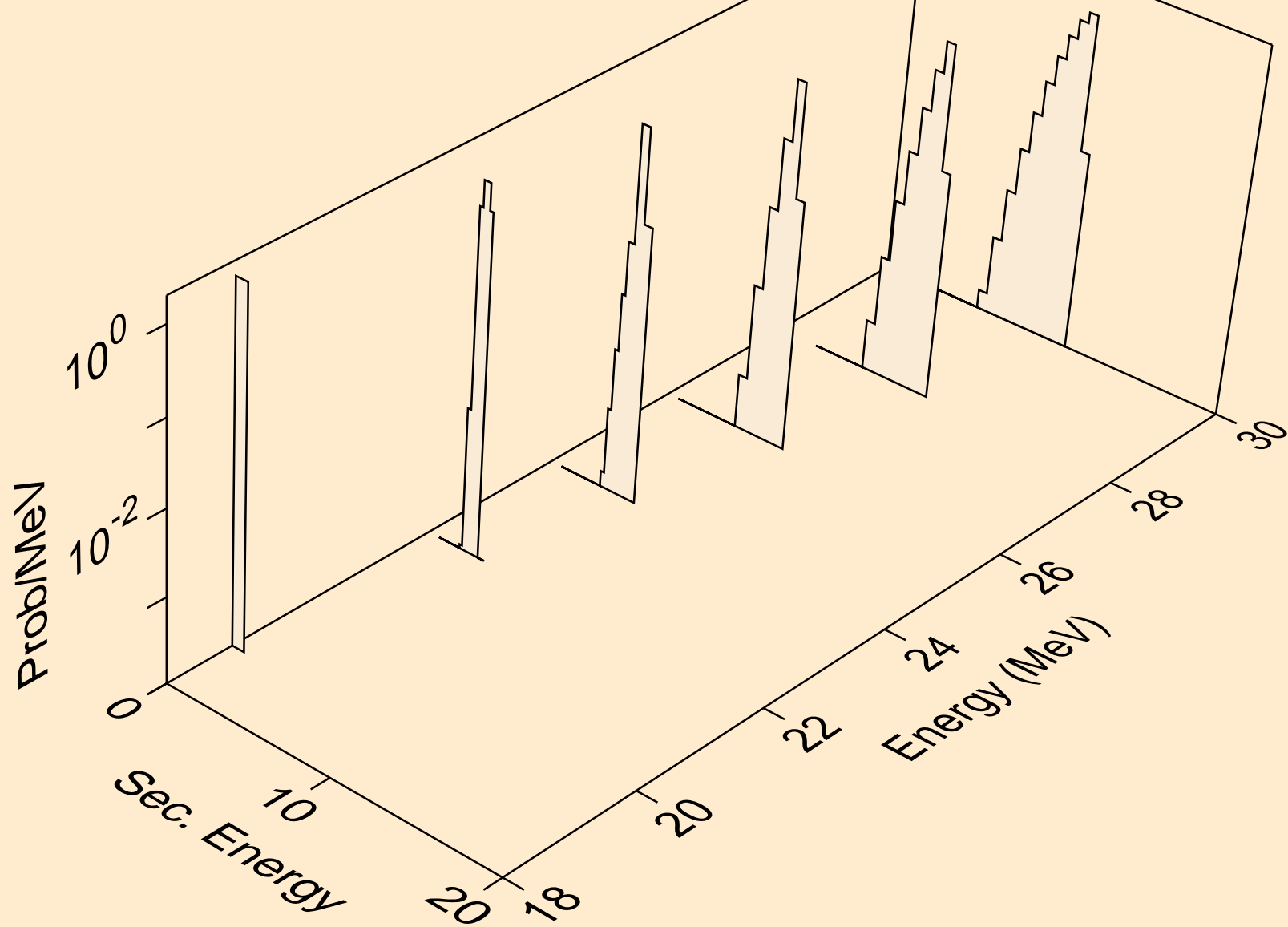
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
deuterons from (a,da)



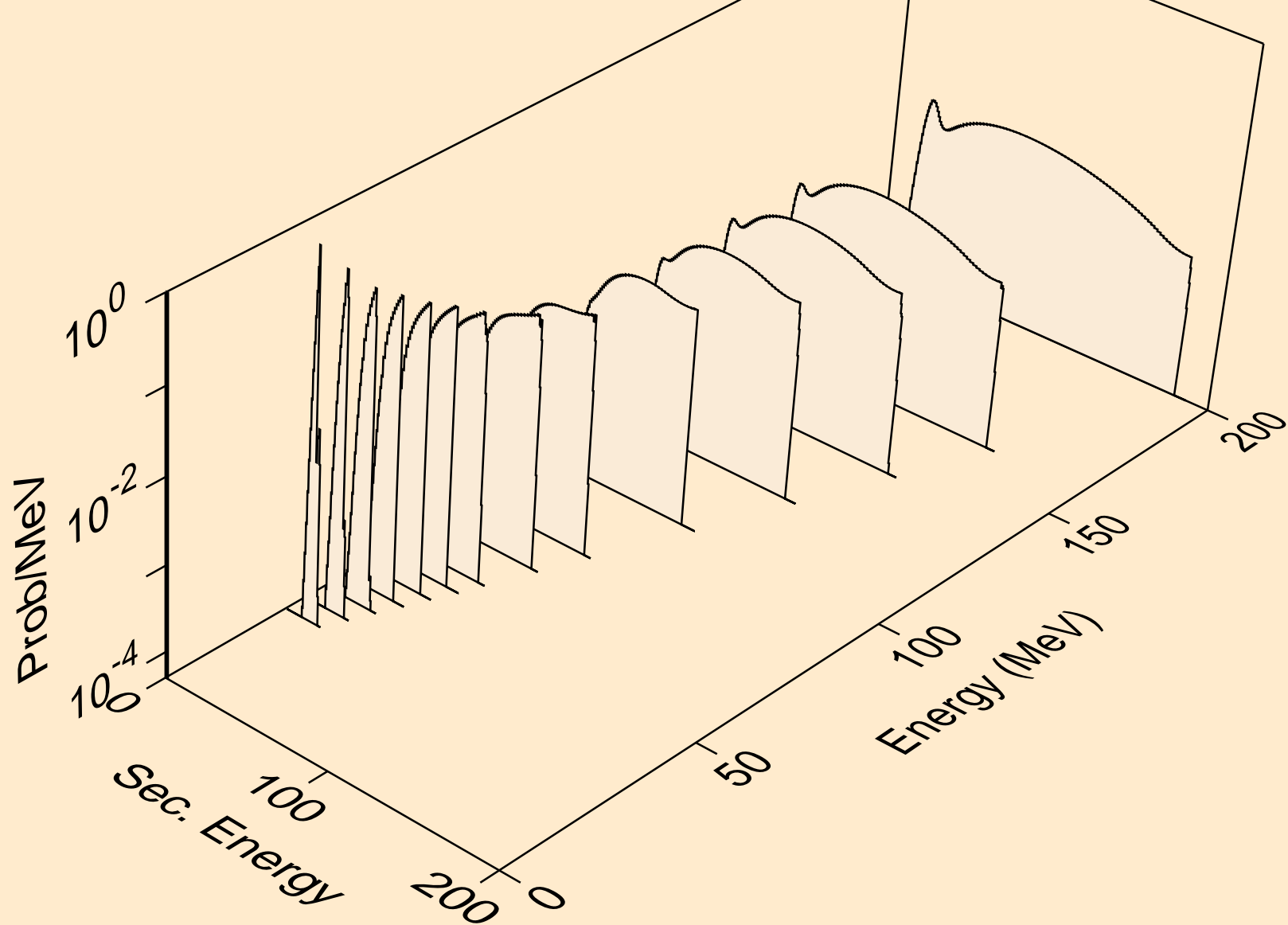
HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,x)



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
tritons from (a,t)



HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,x)





HF163 ALPHA ACER TENDL-2021 LIBRARY; T=0.K  
he3s from (a,he3)

