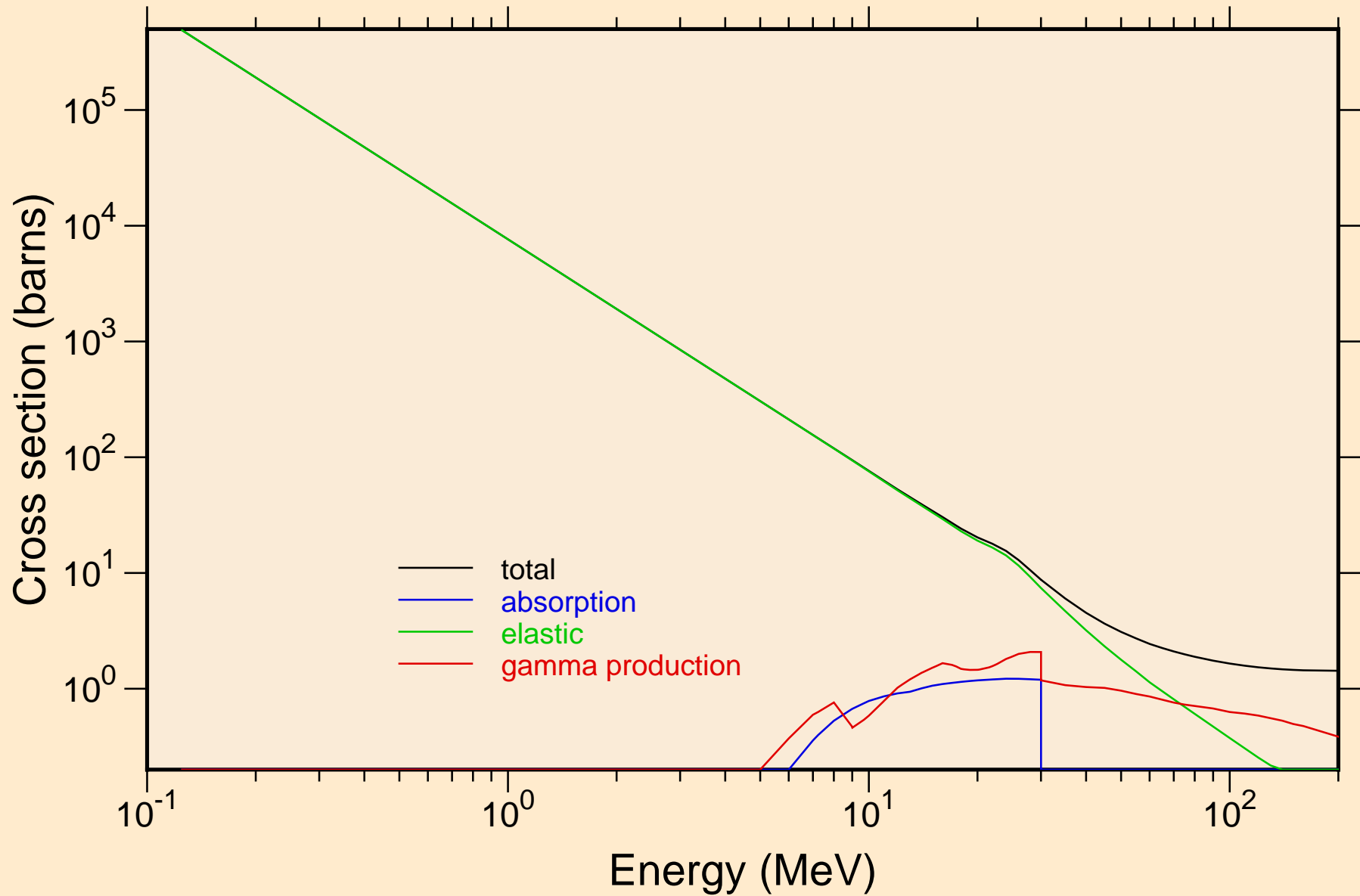
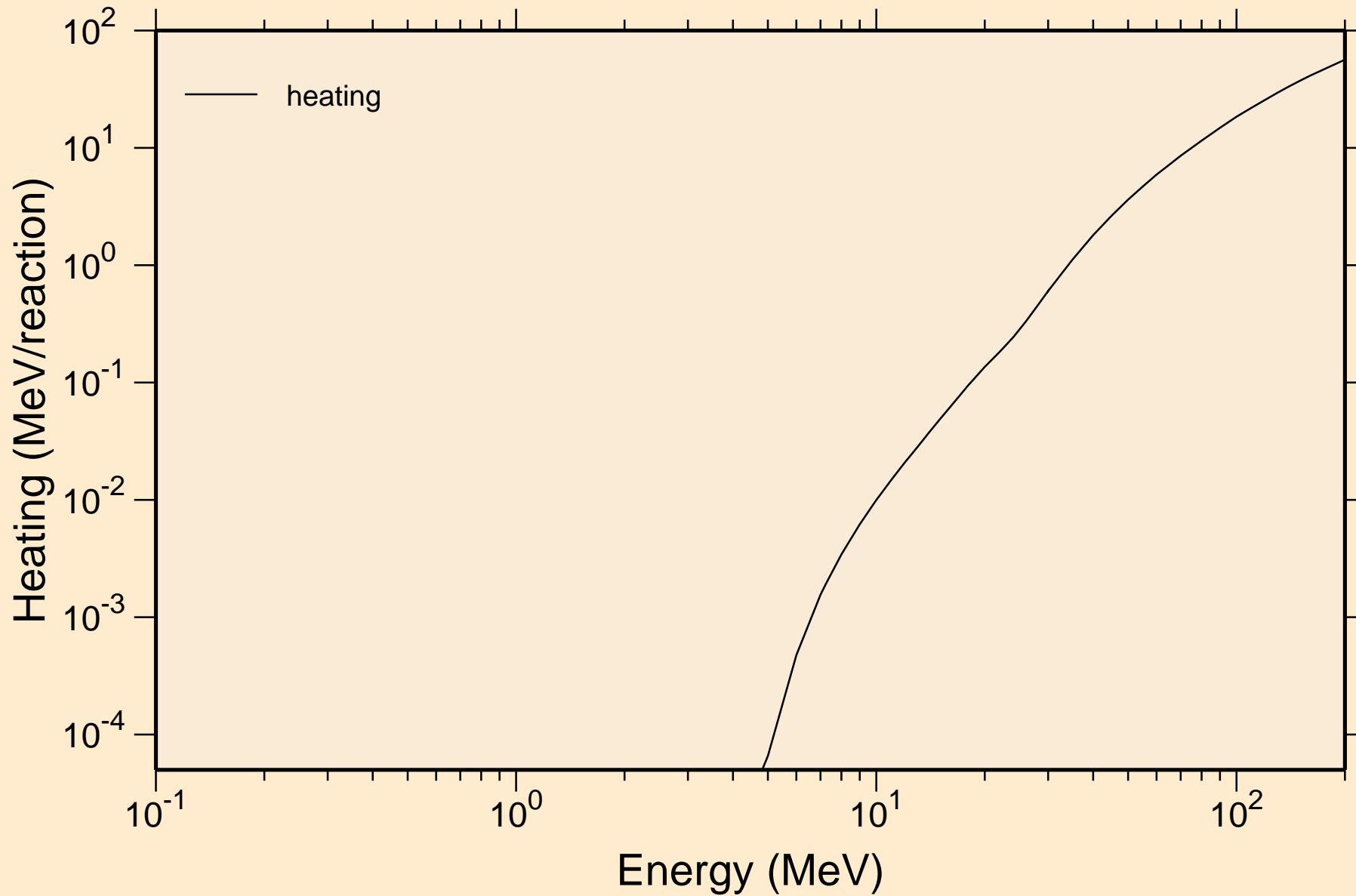


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Principal cross sections



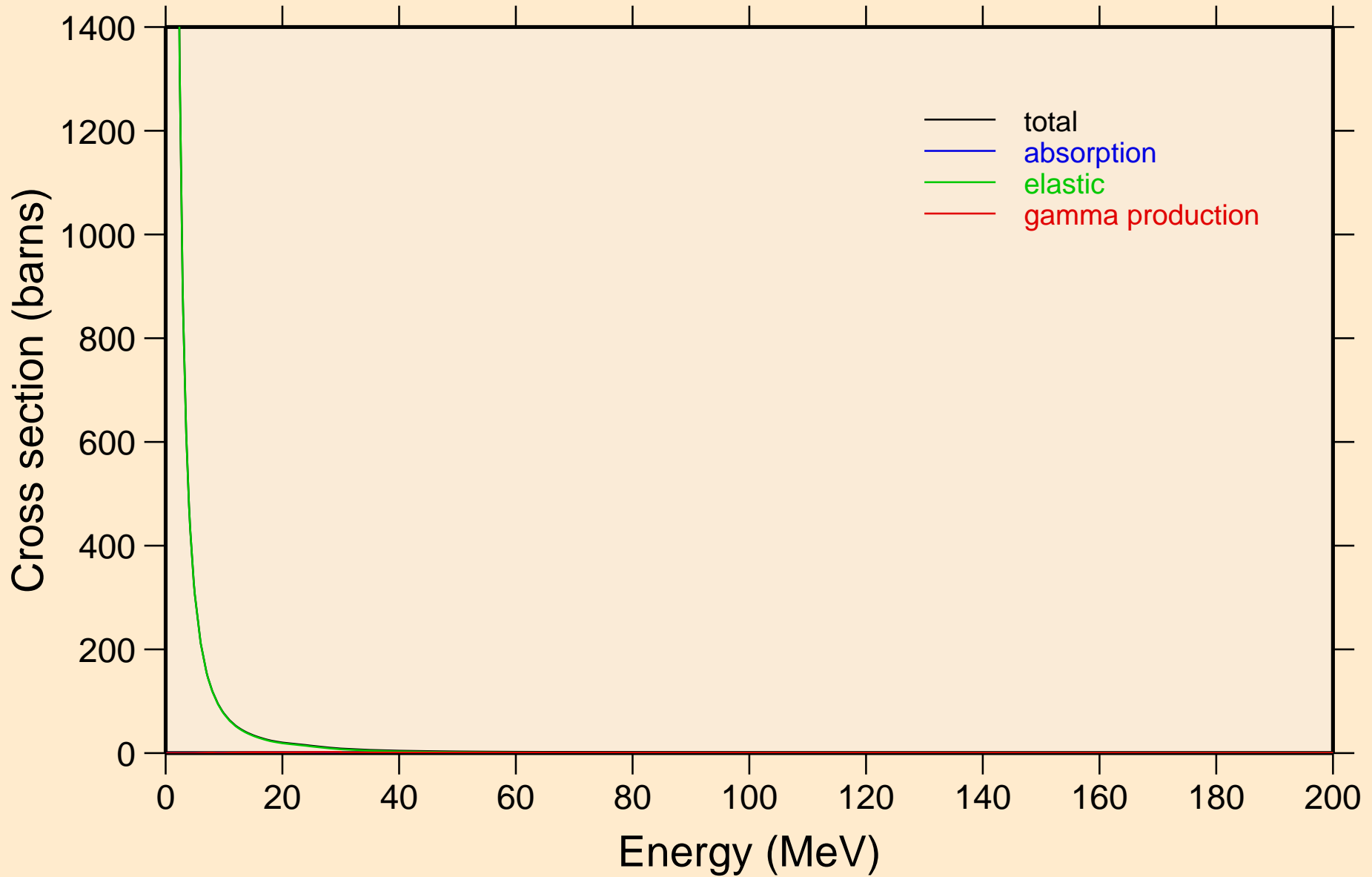
# S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Heating



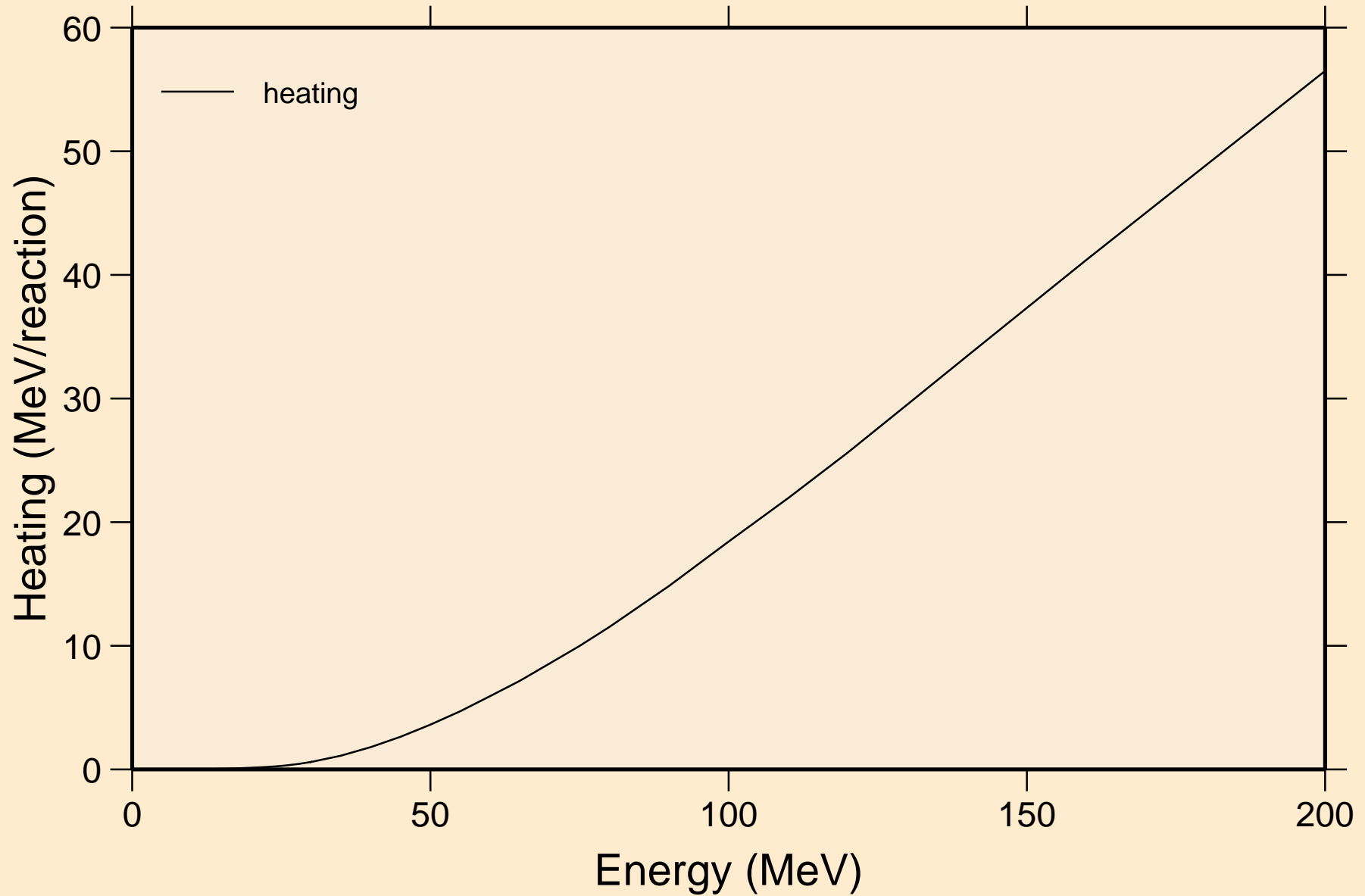
# S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



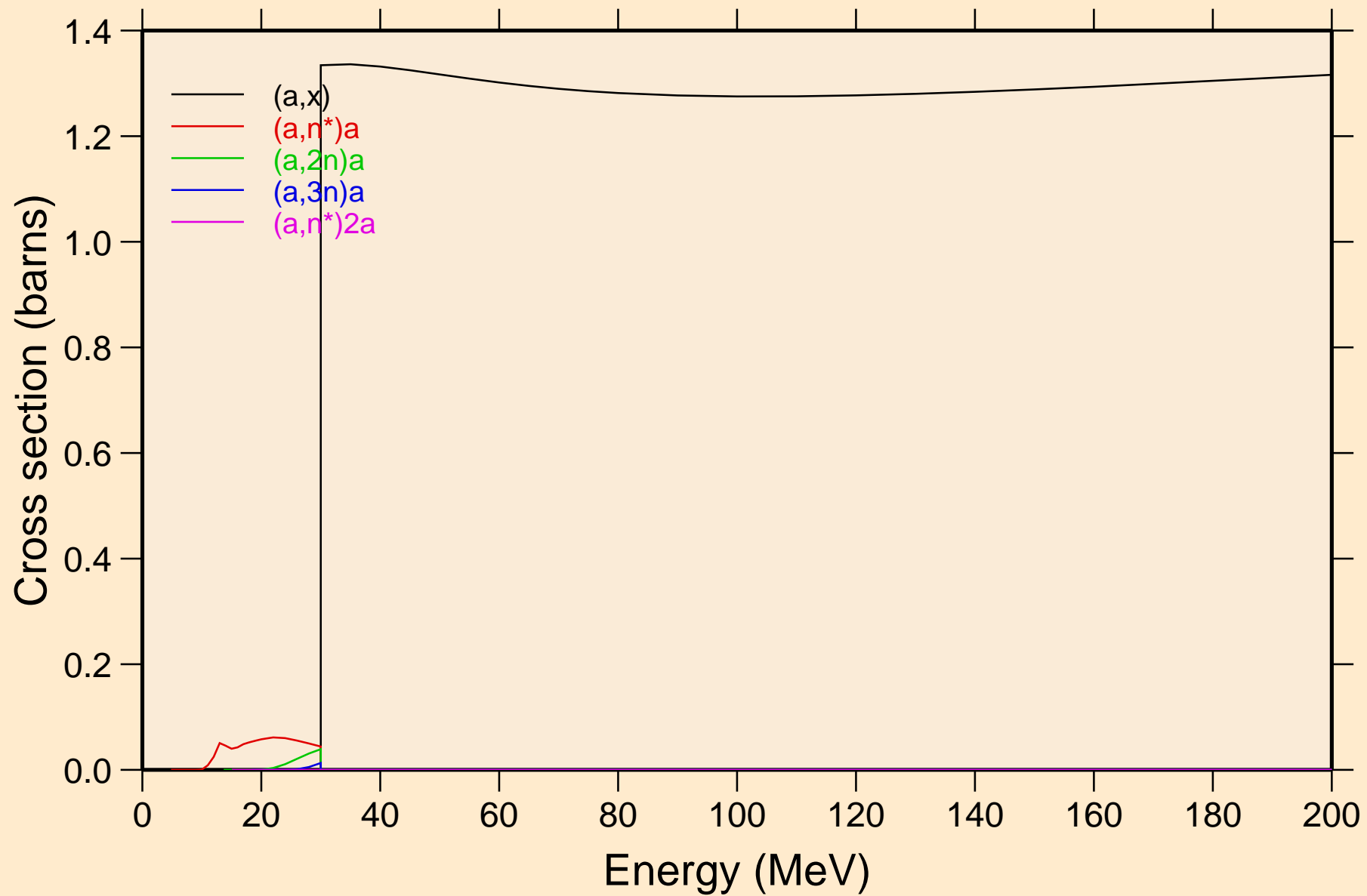
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

Heating

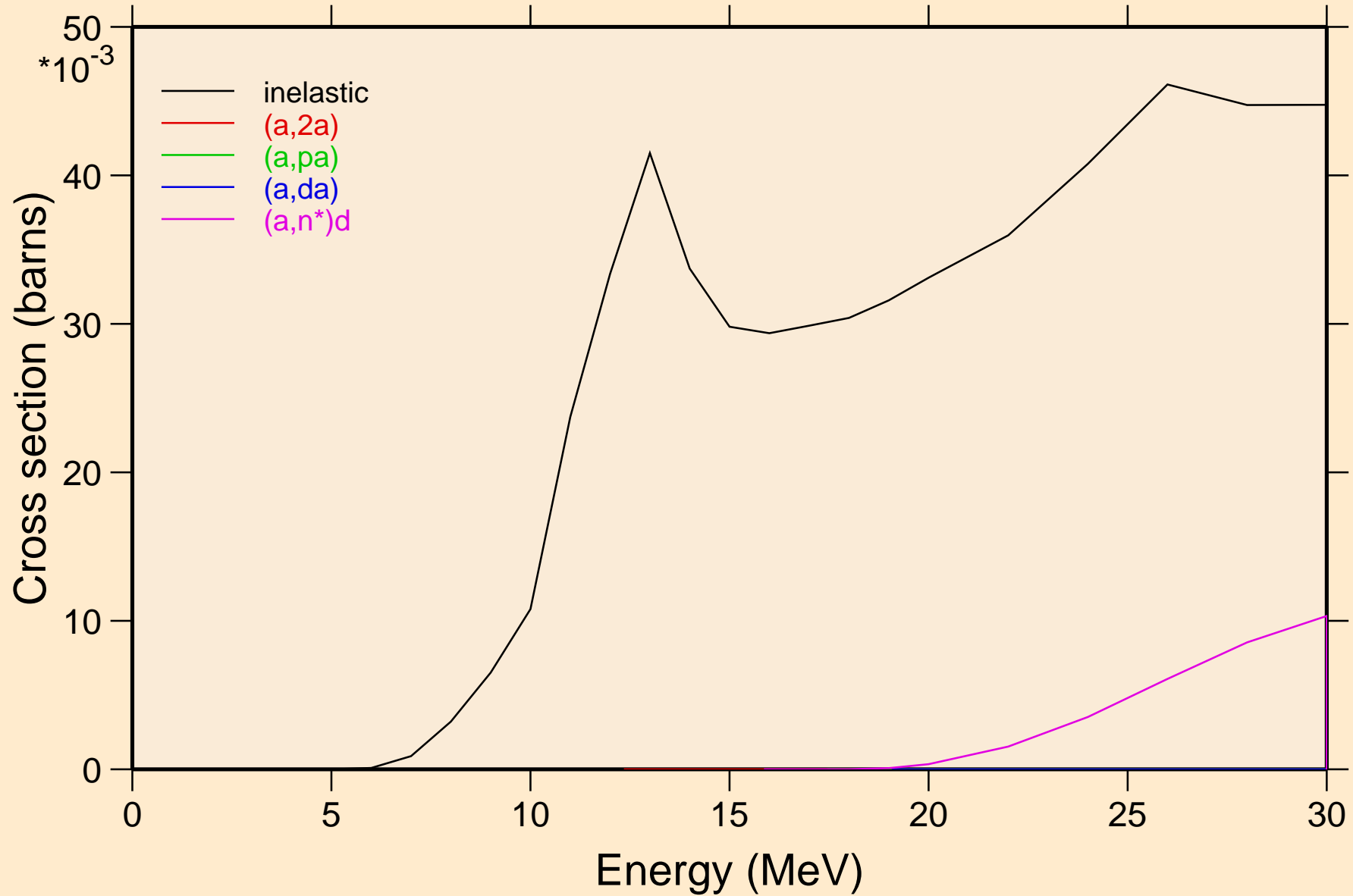


# S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

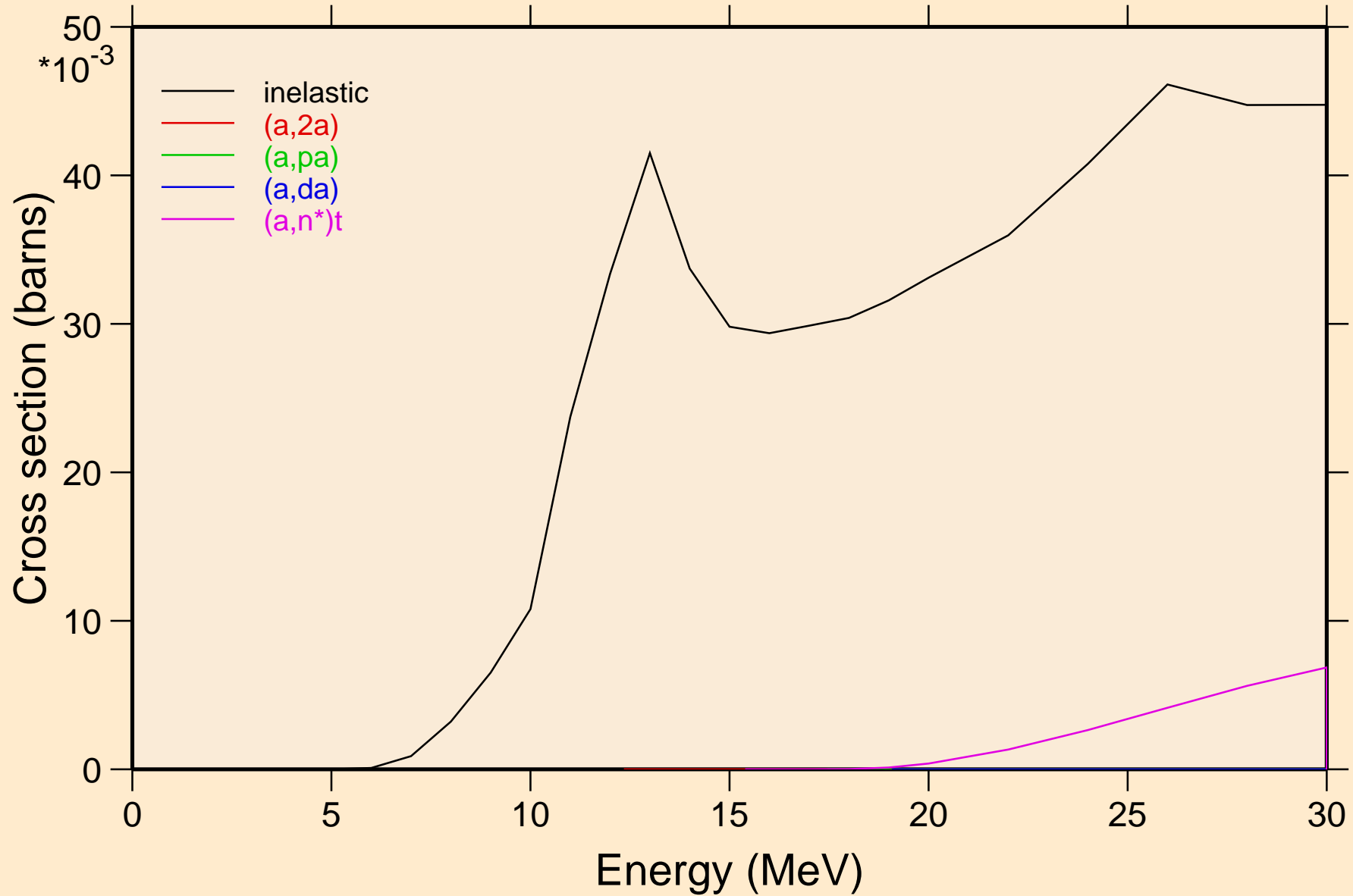
## Threshold reactions



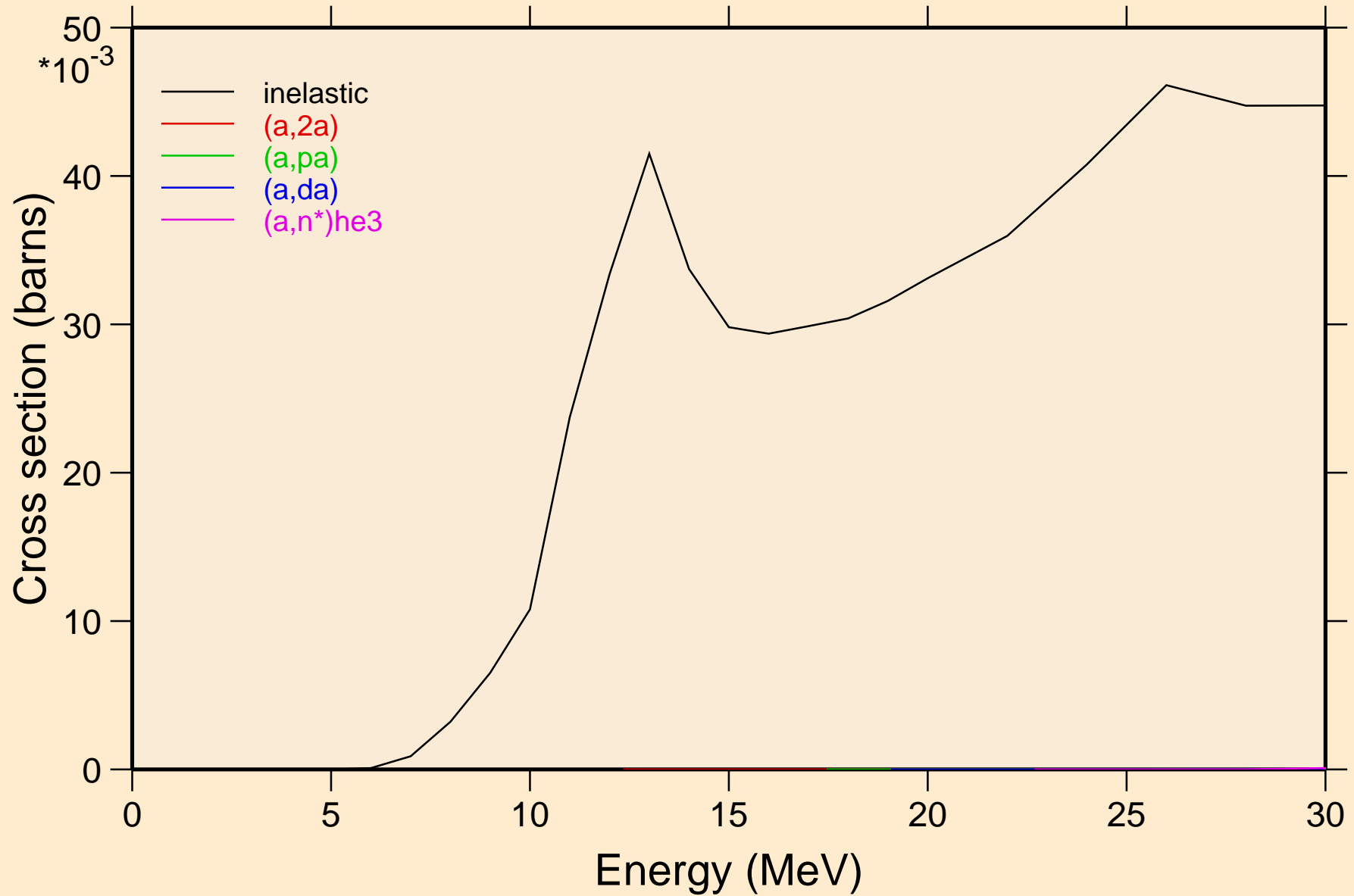
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



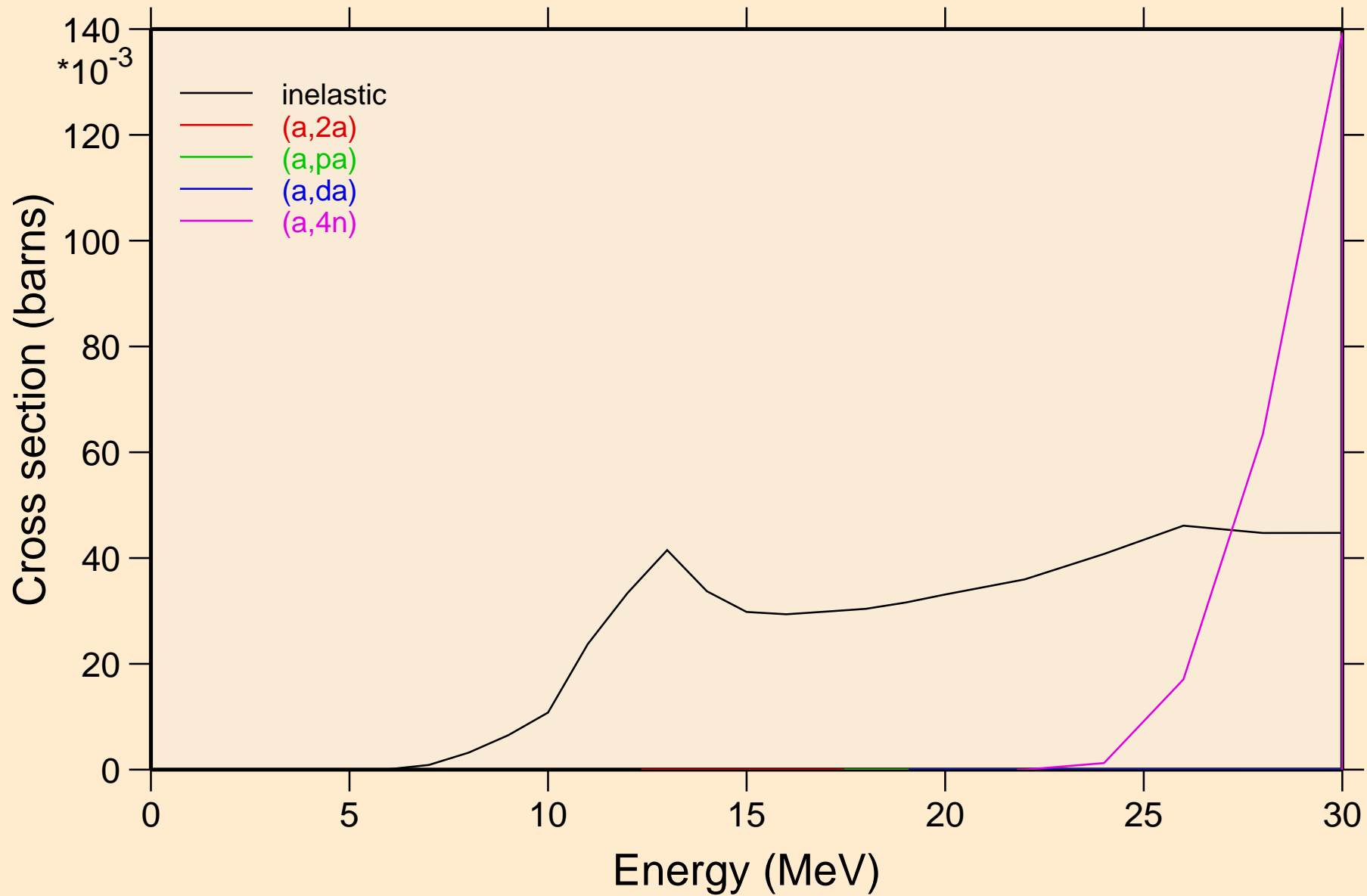
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



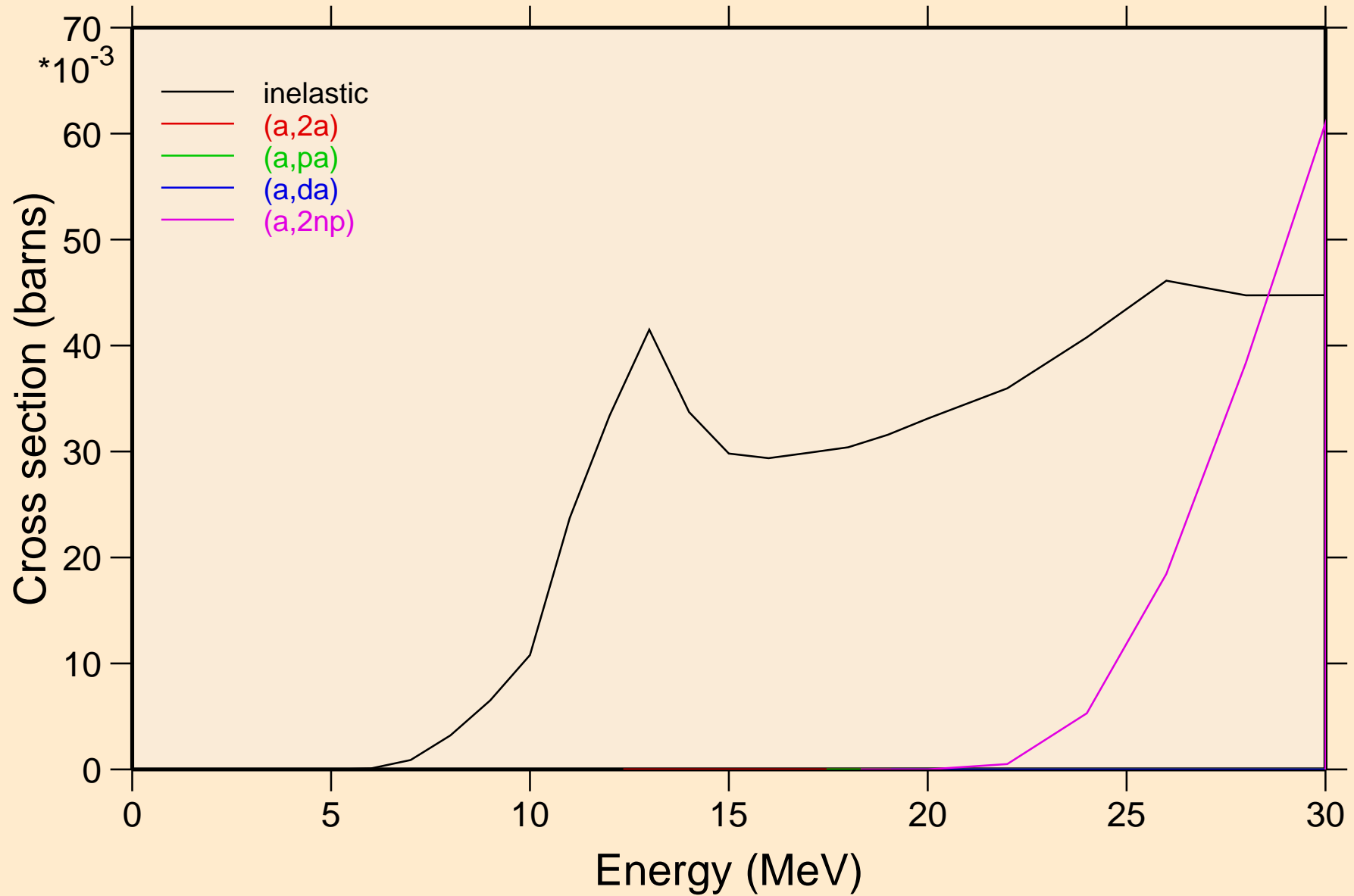
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



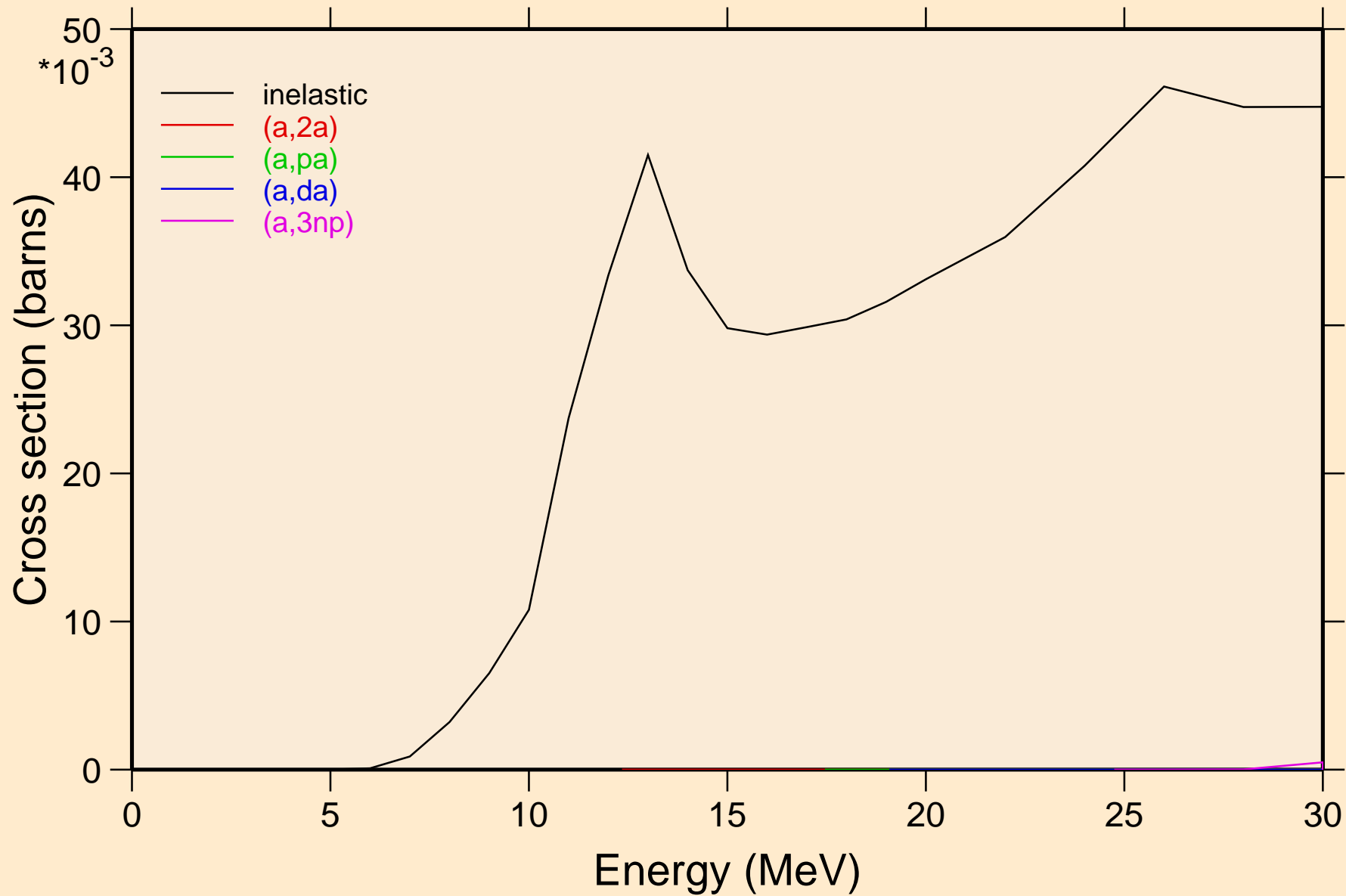
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



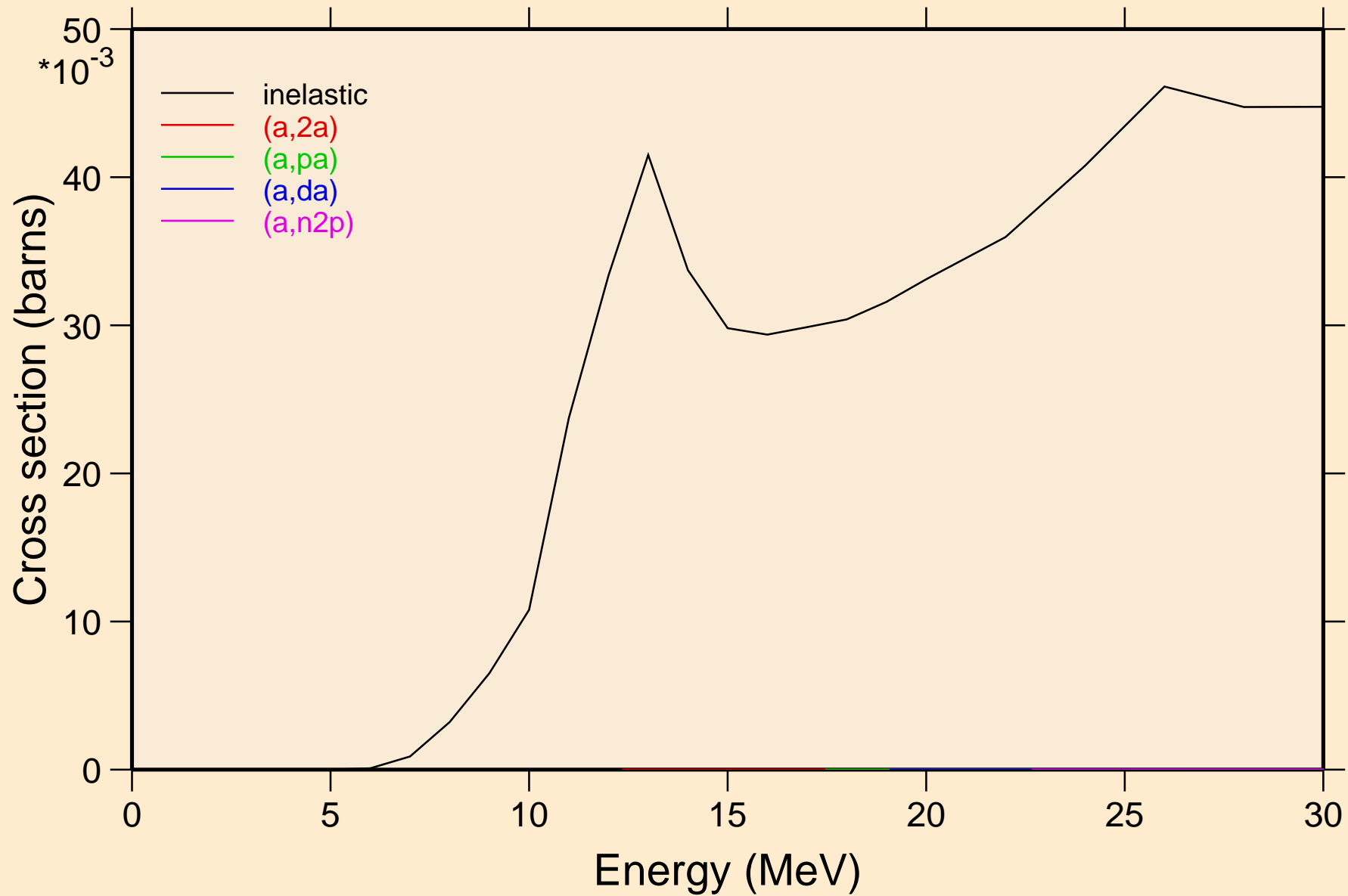
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



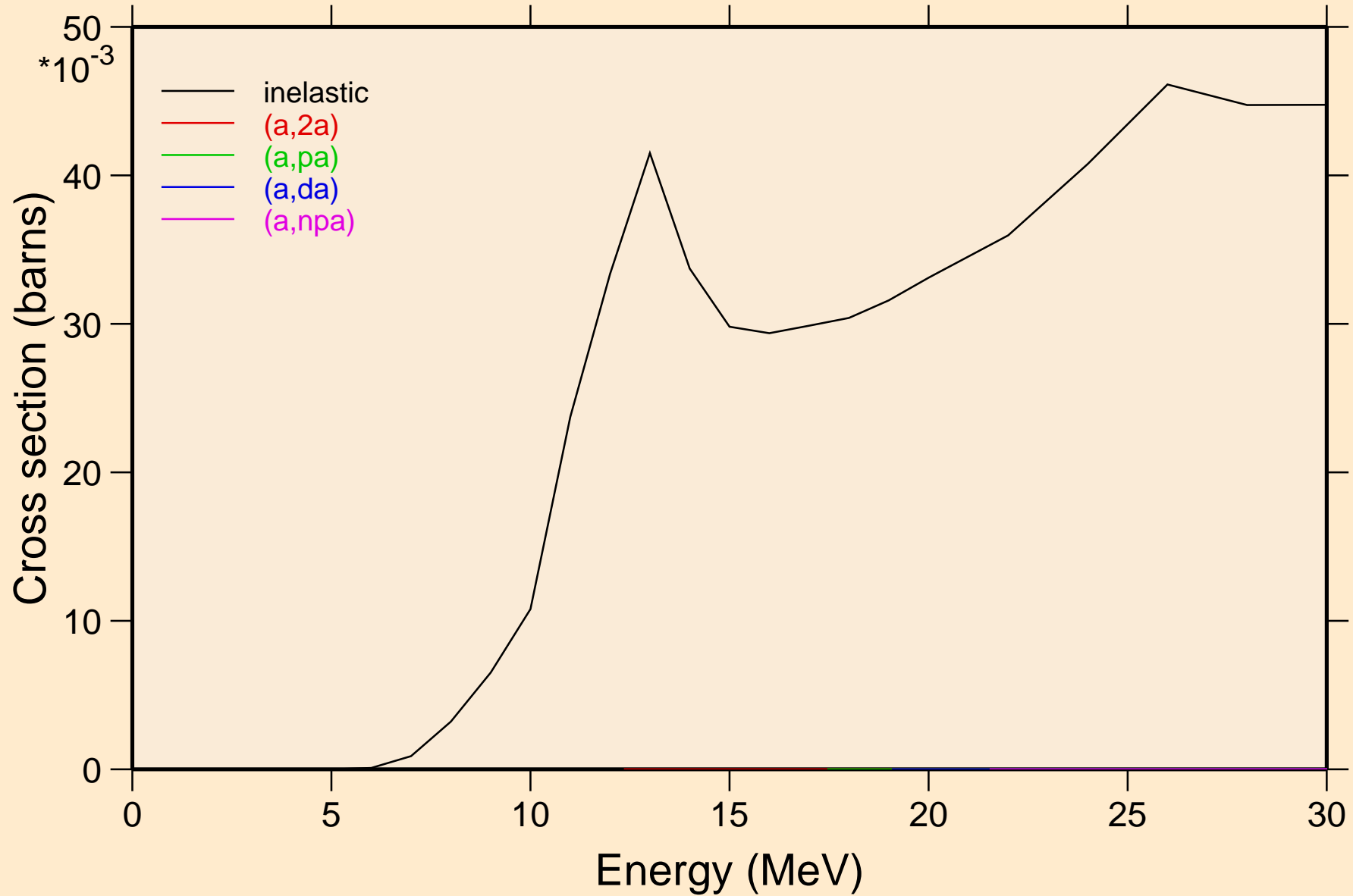
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



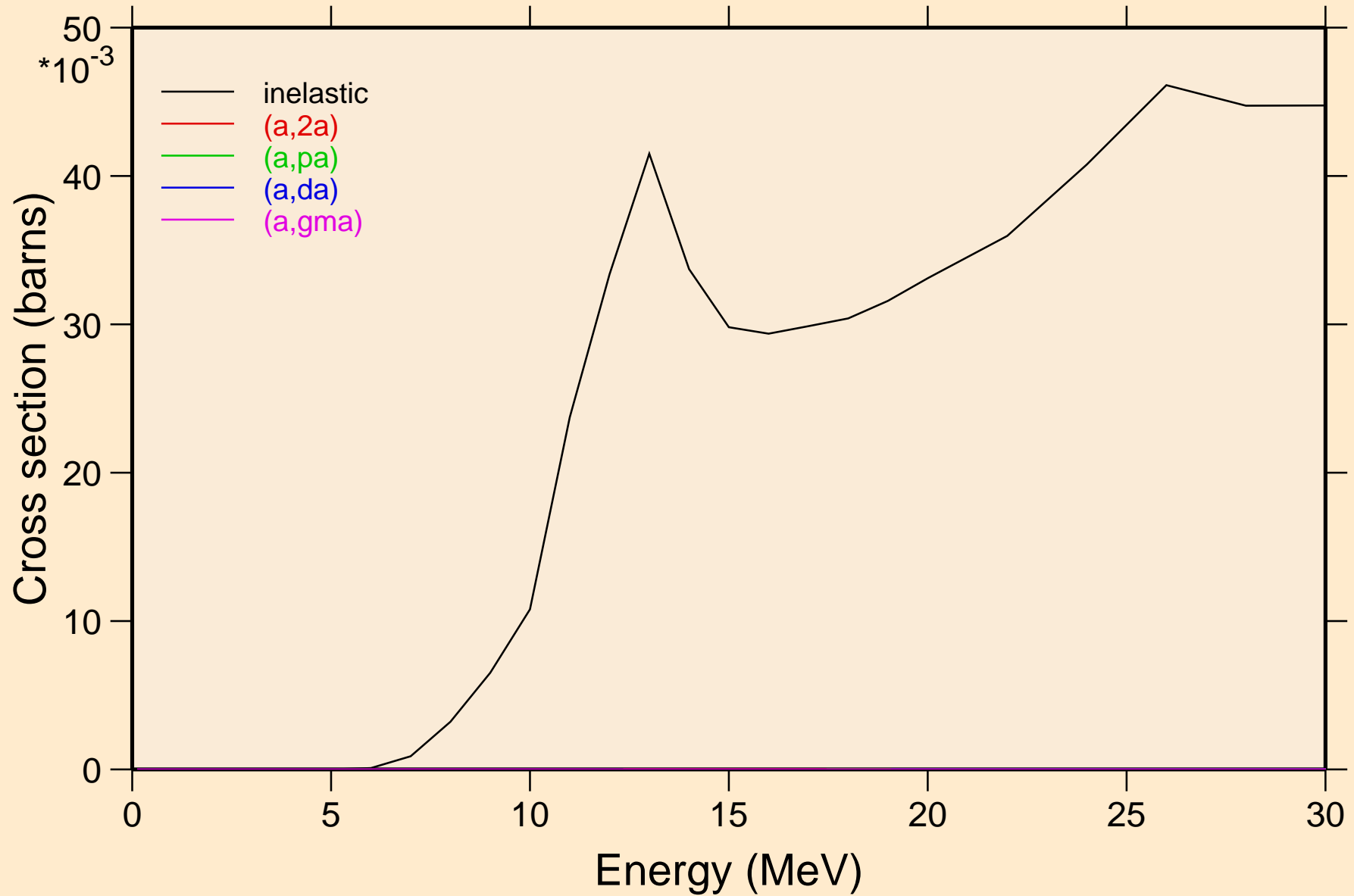
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



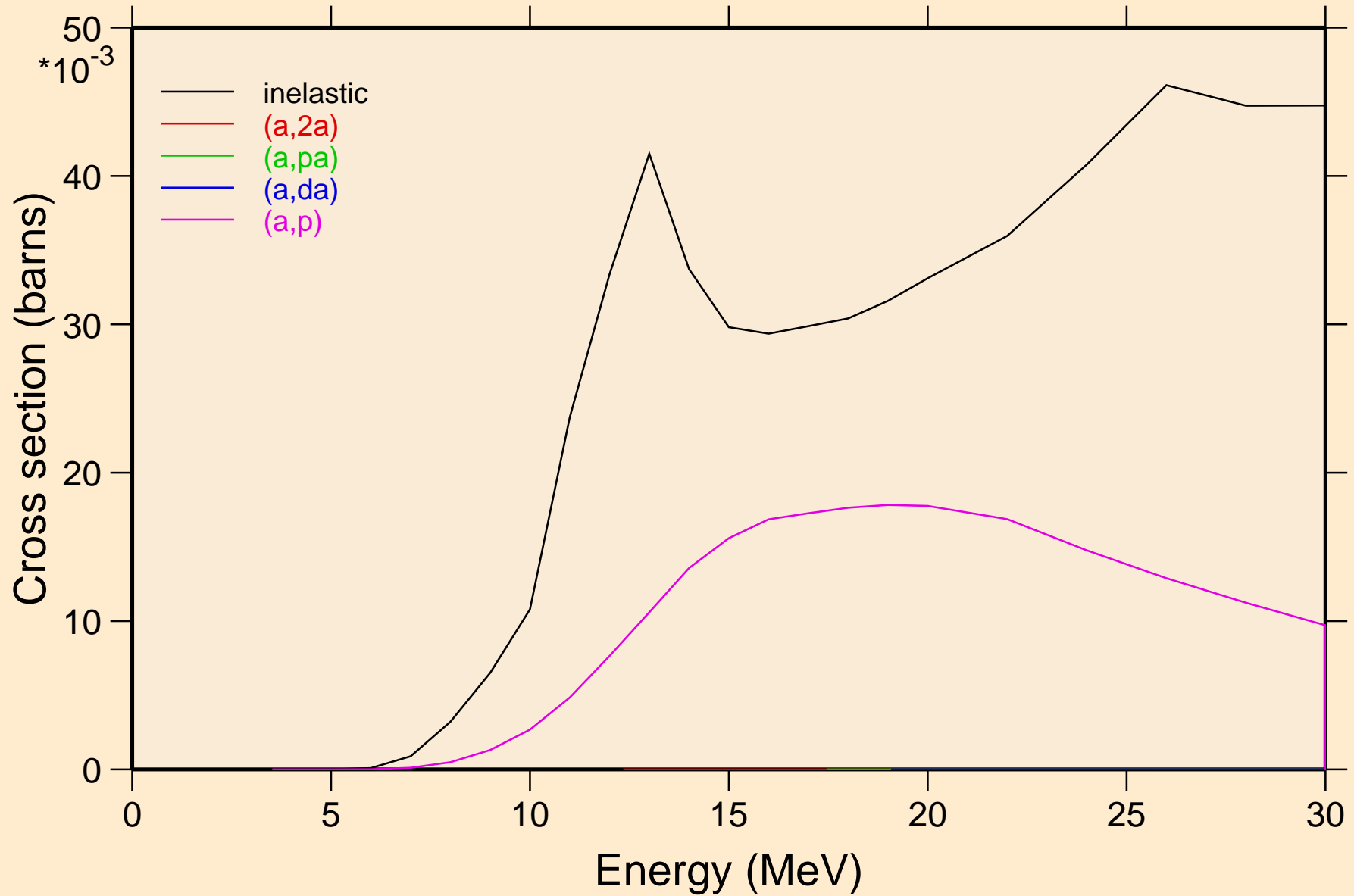
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



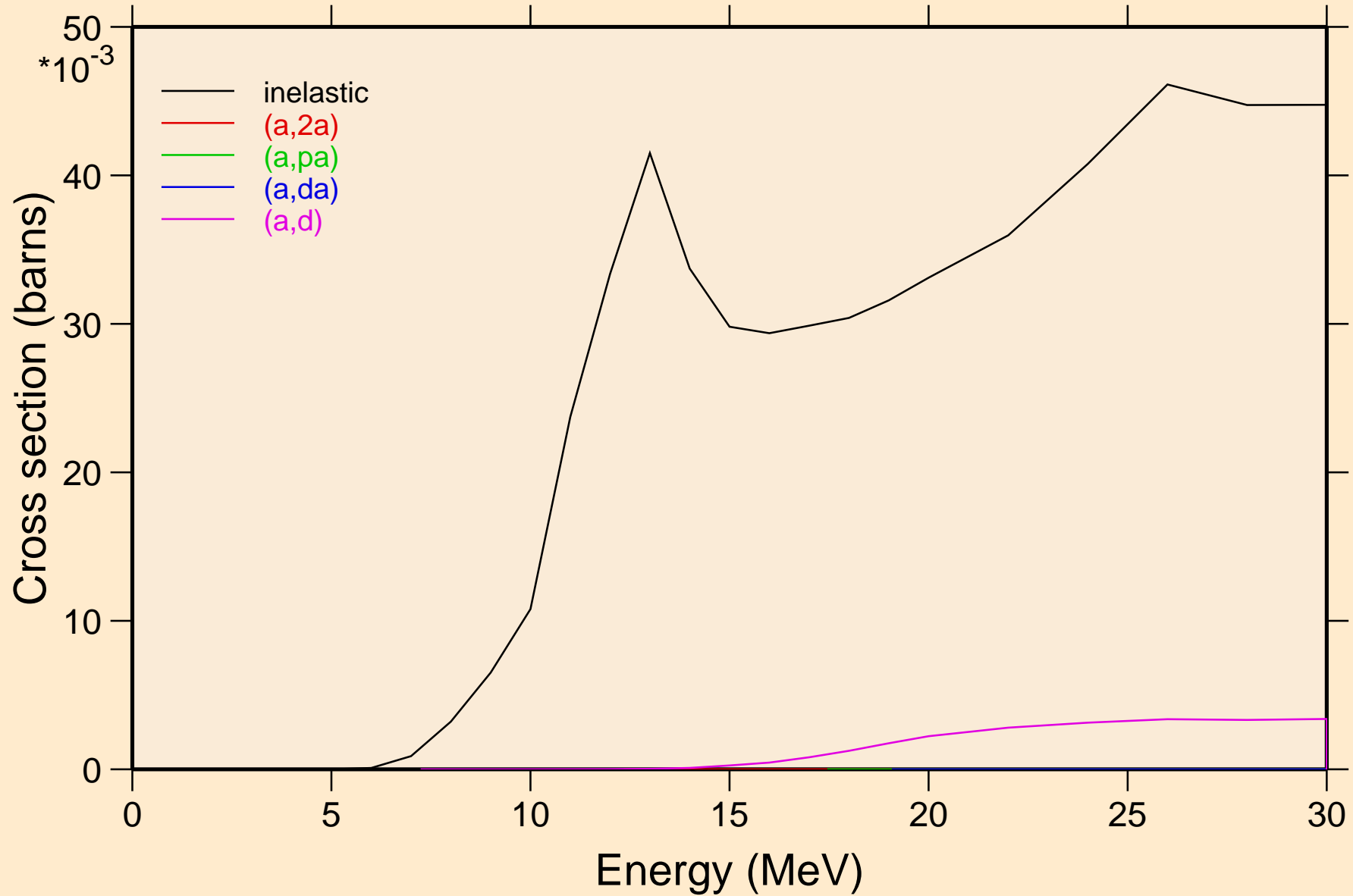
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



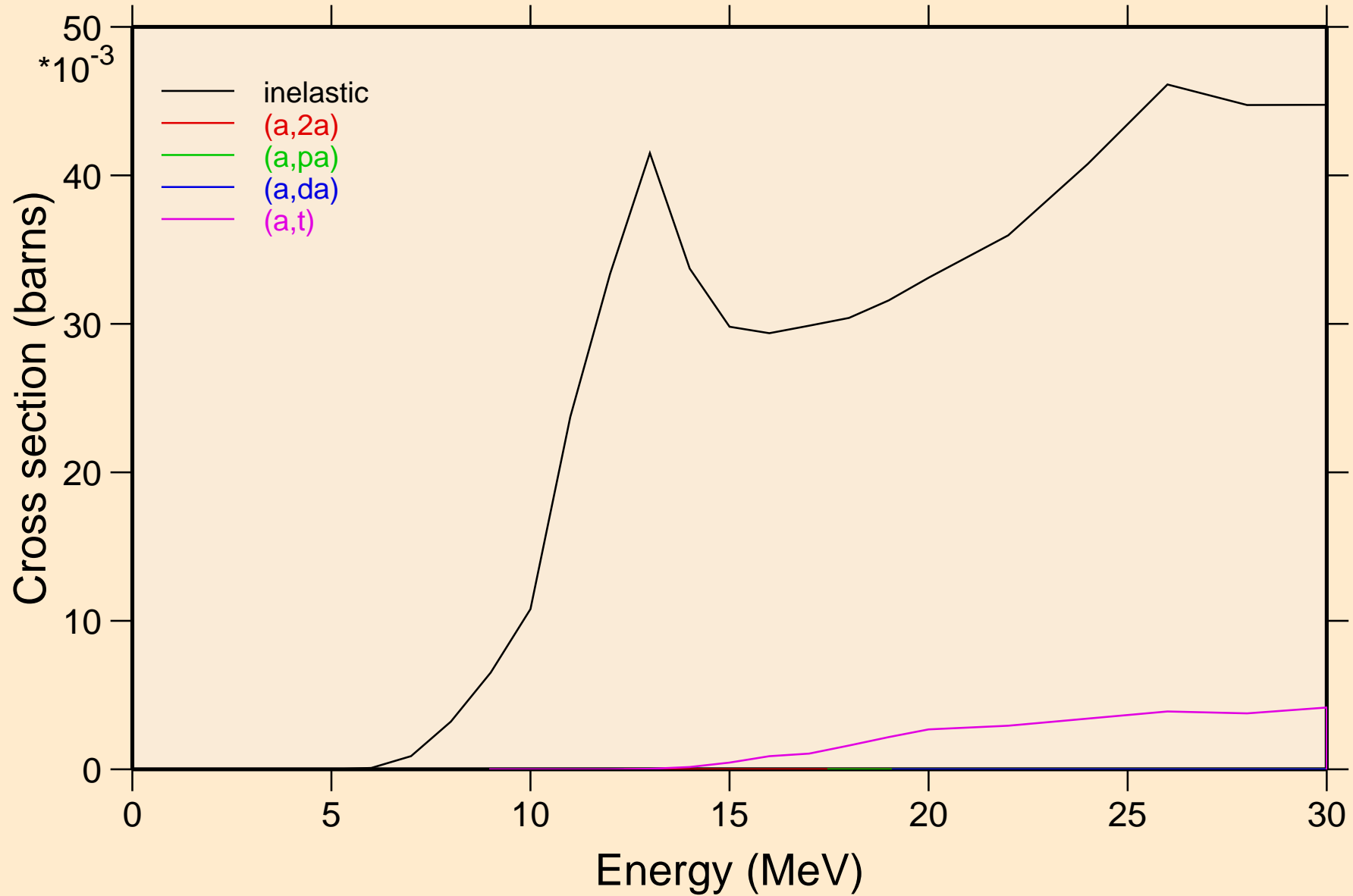
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



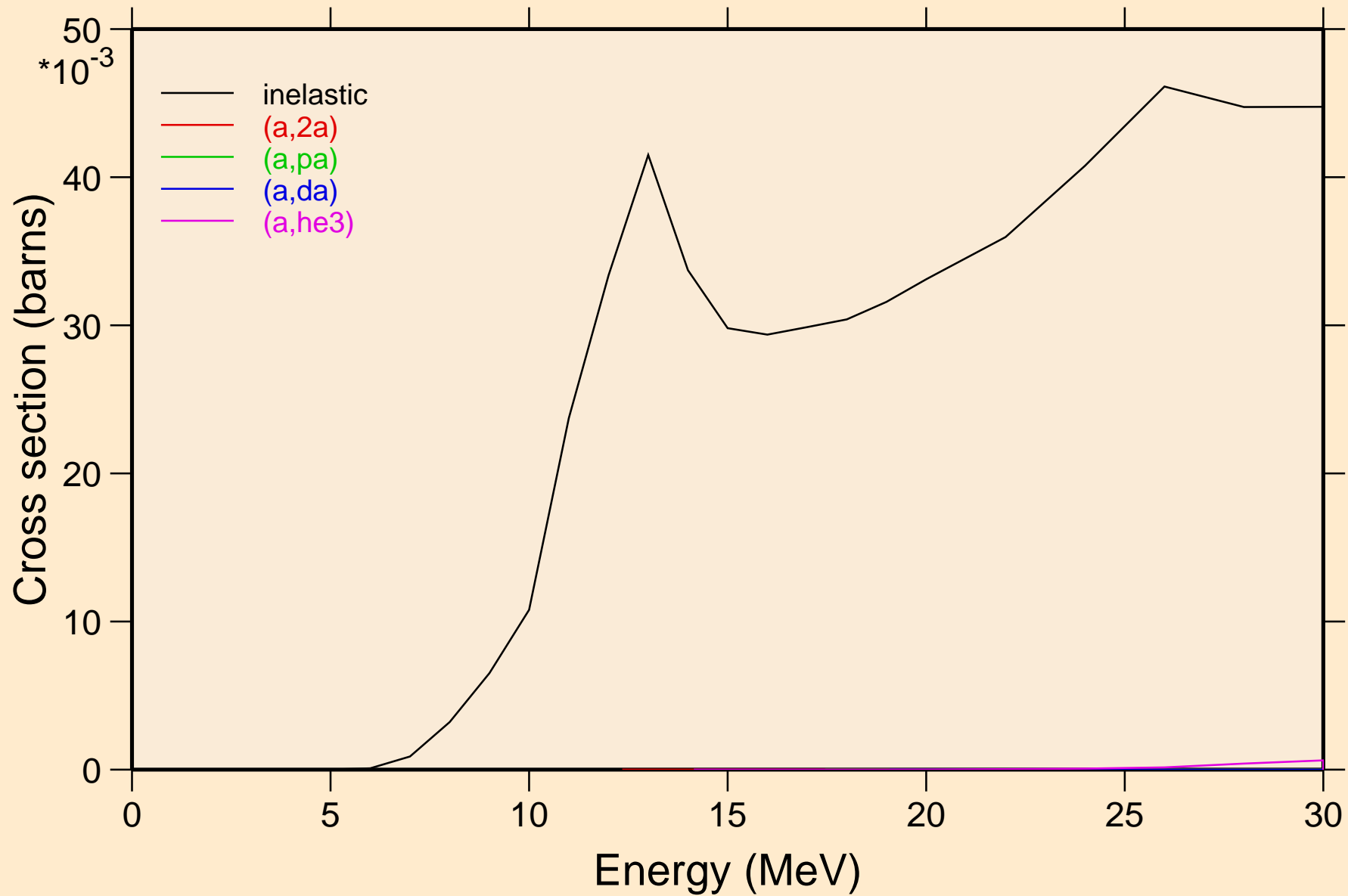
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



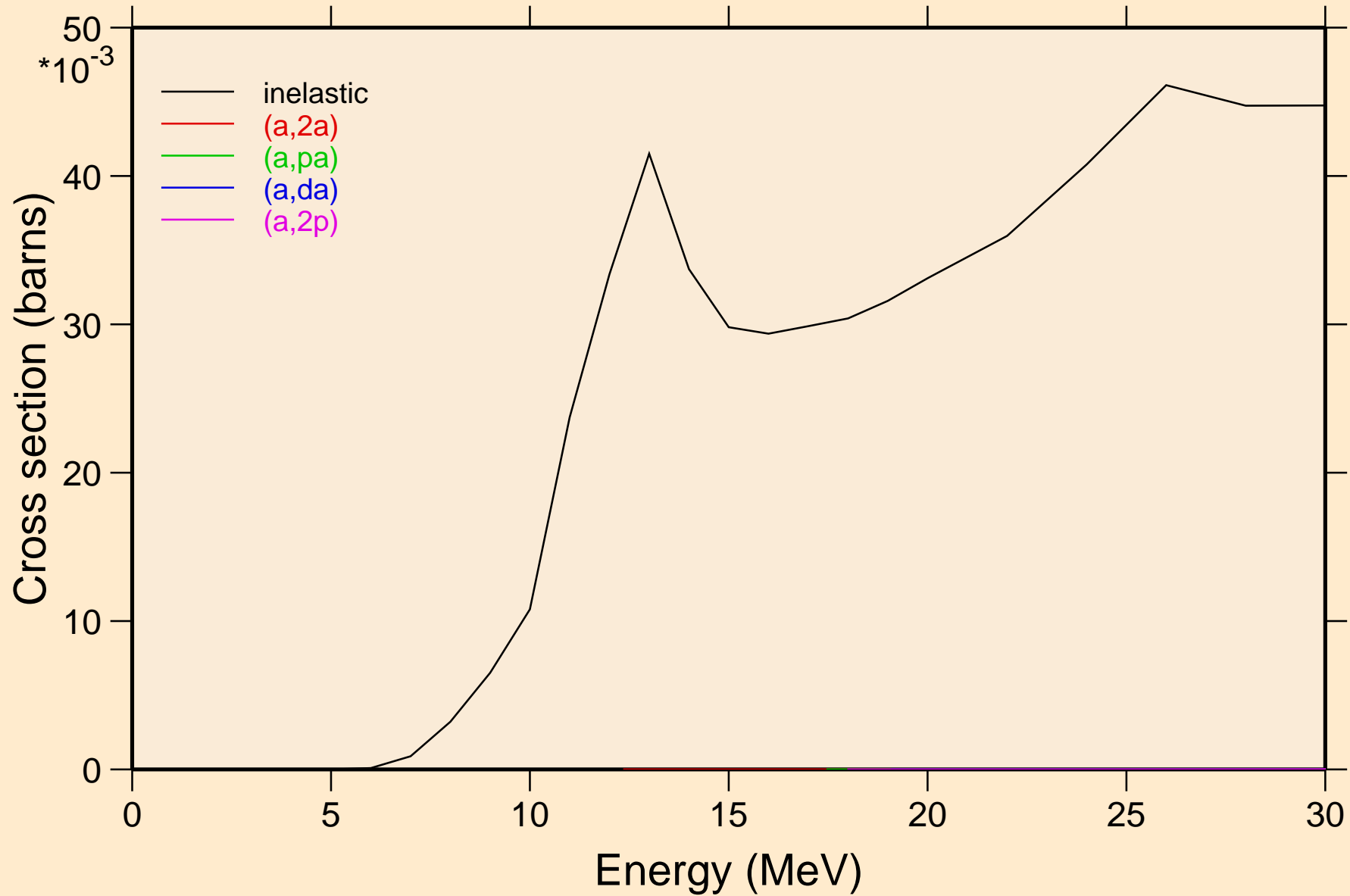
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



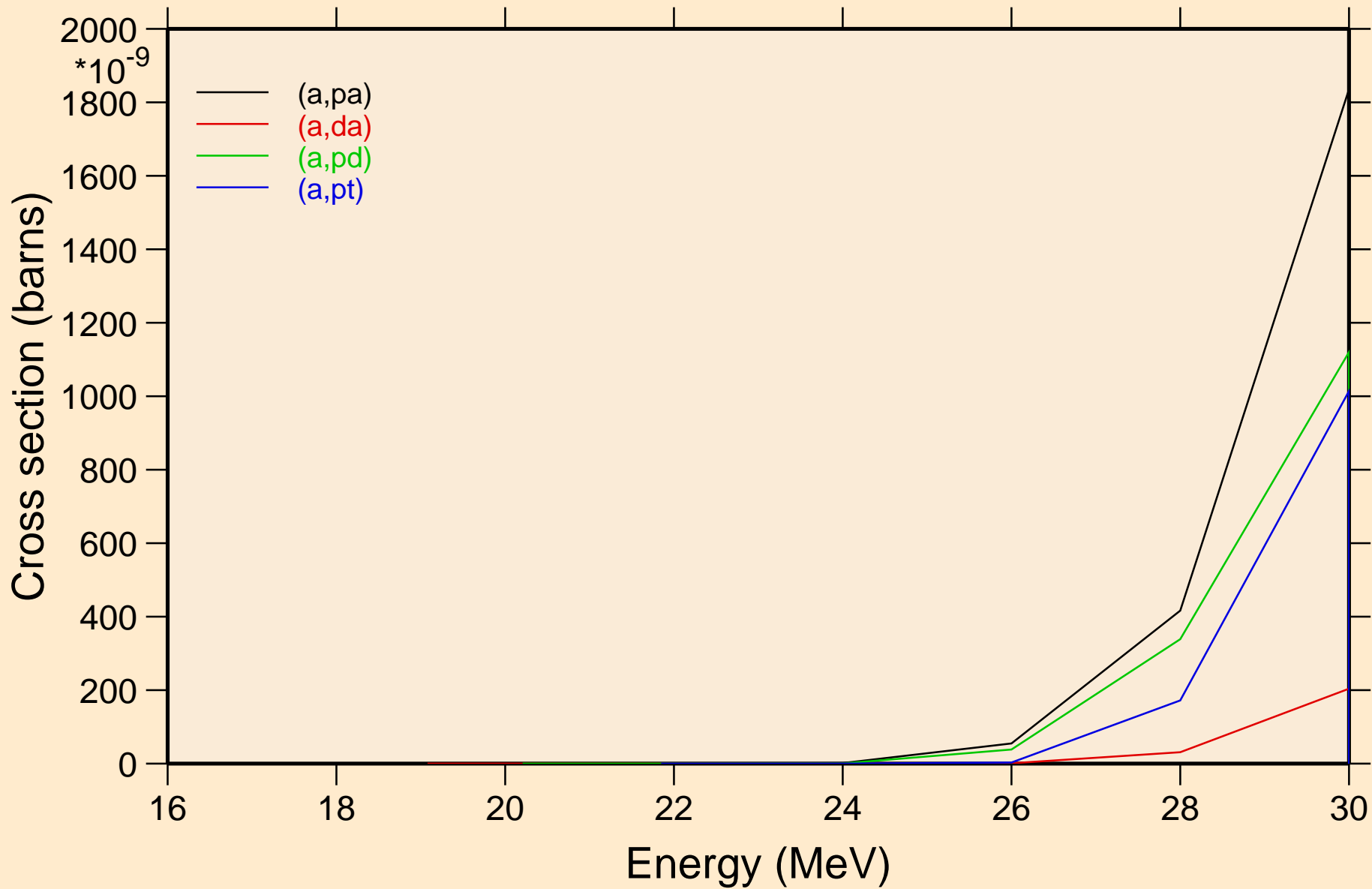
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



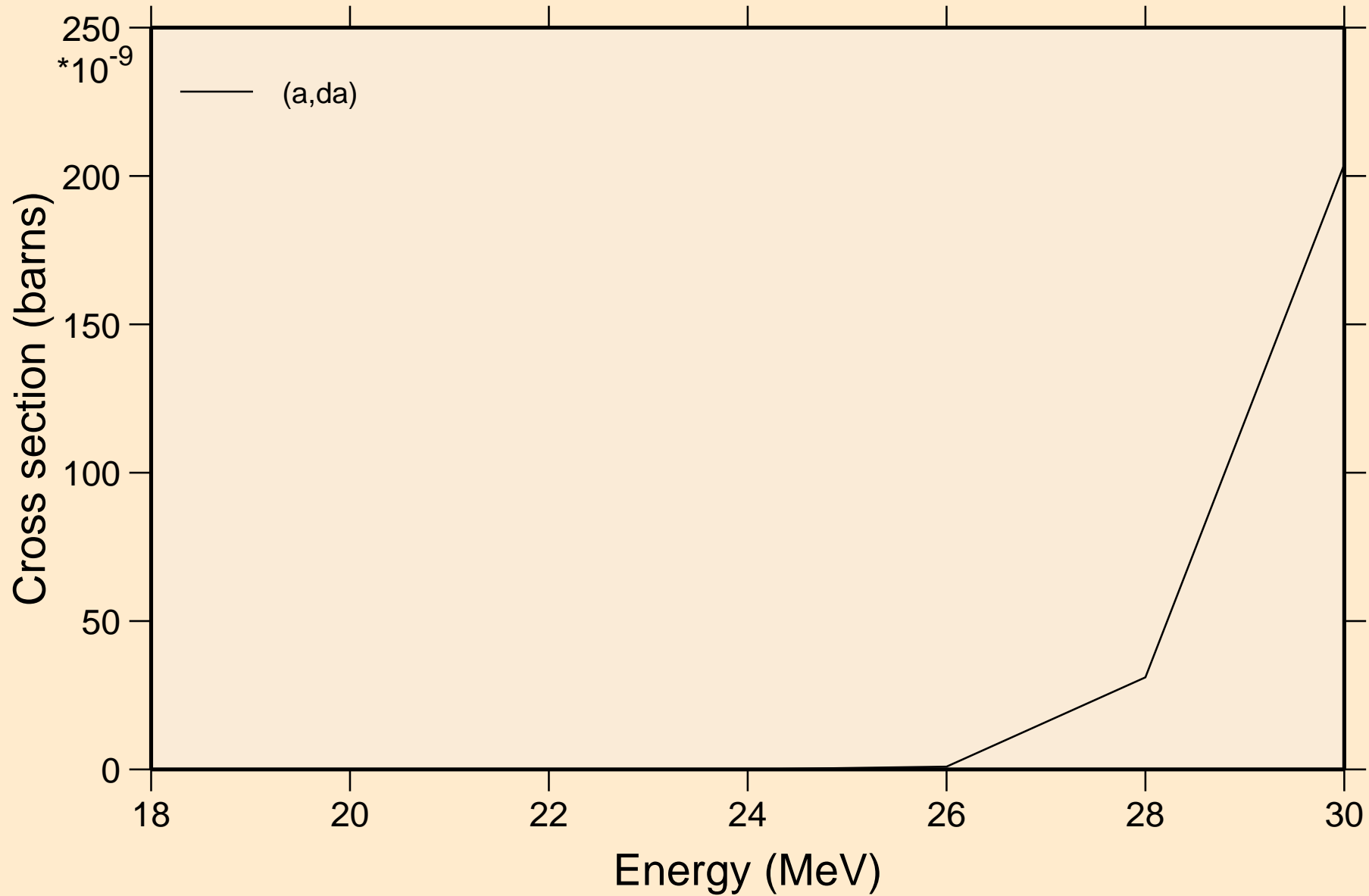
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



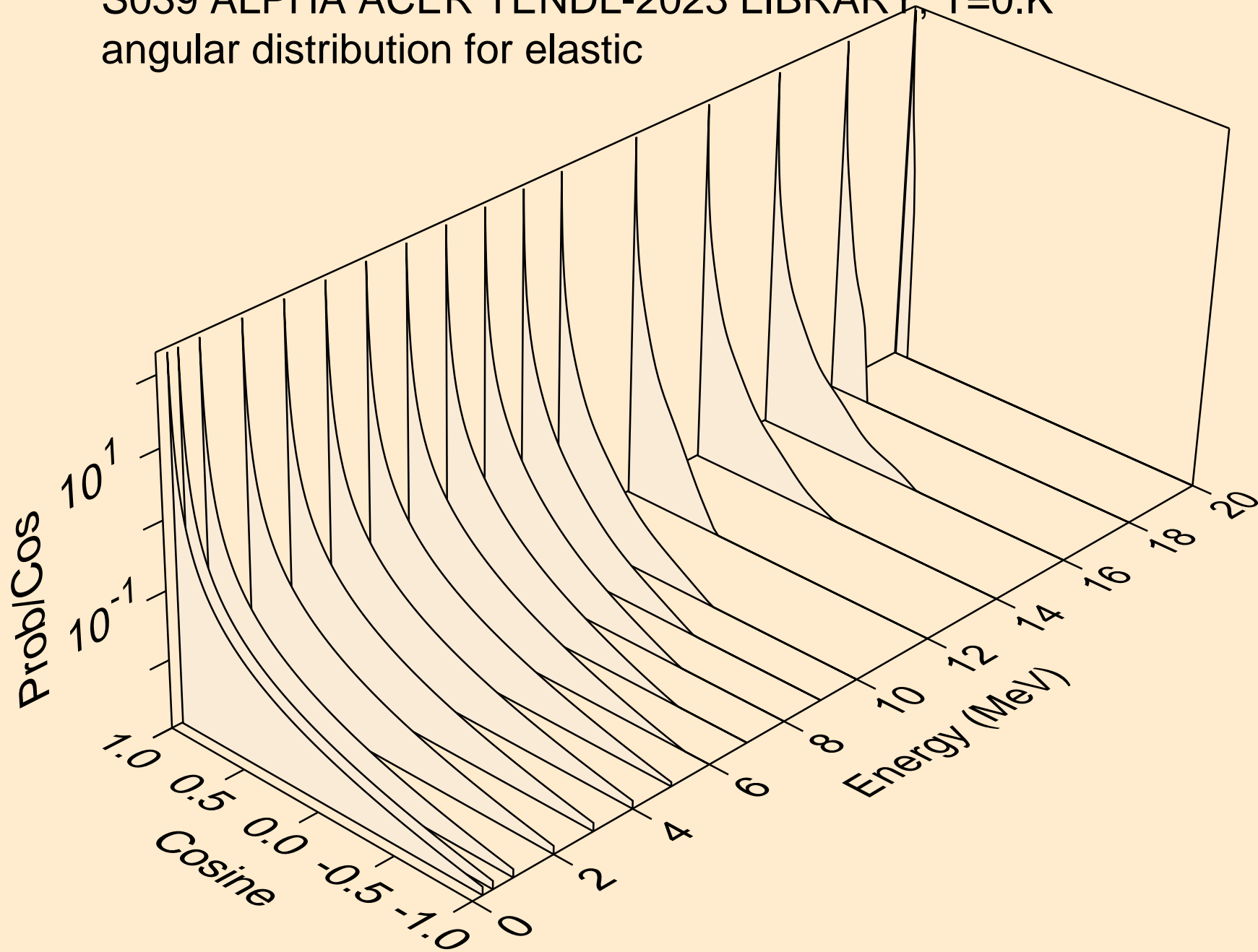
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



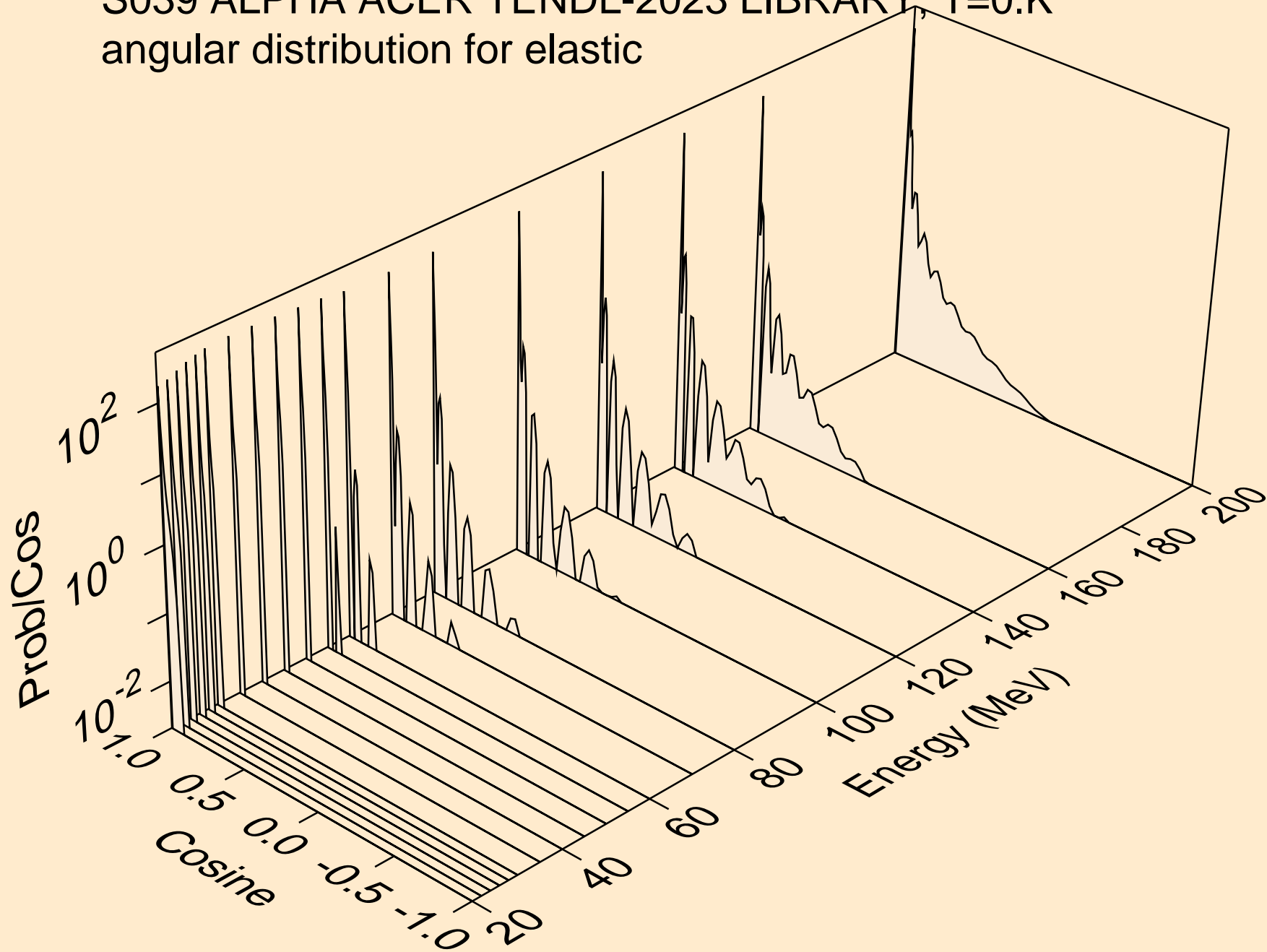
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic

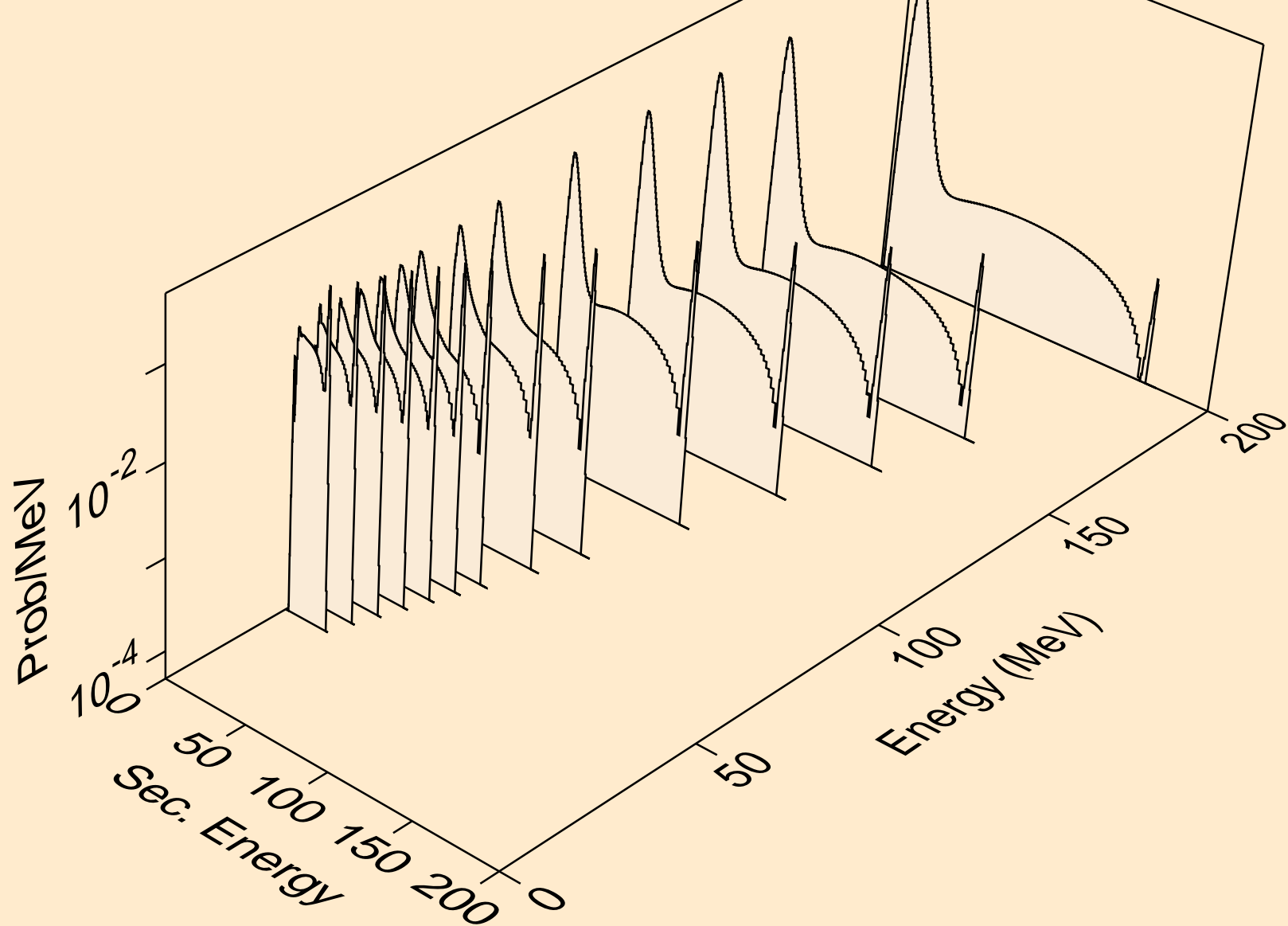


S039 ALPHA ACER TENDL-2023 LIBRARY: T=0.K  
angular distribution for elastic

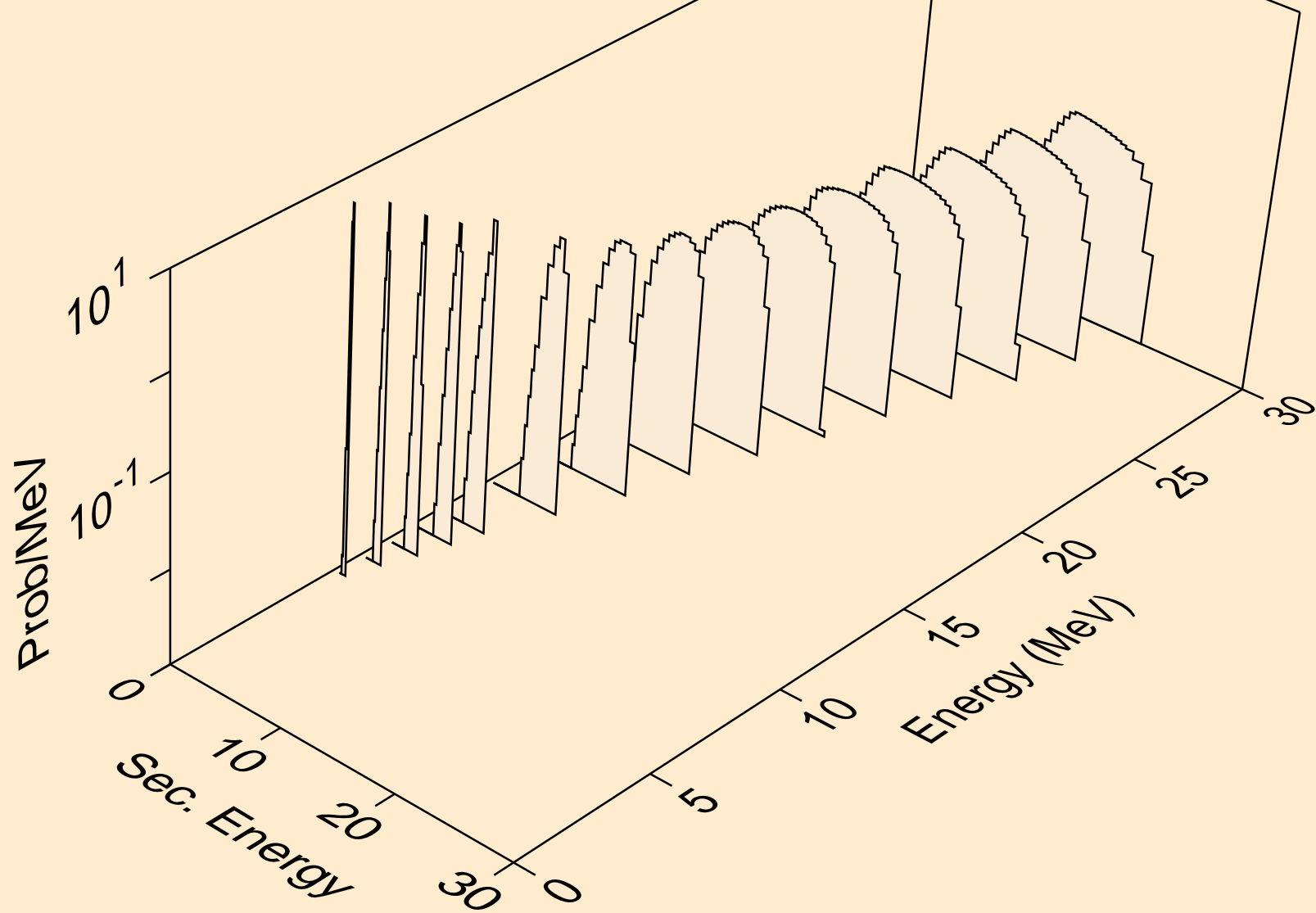


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

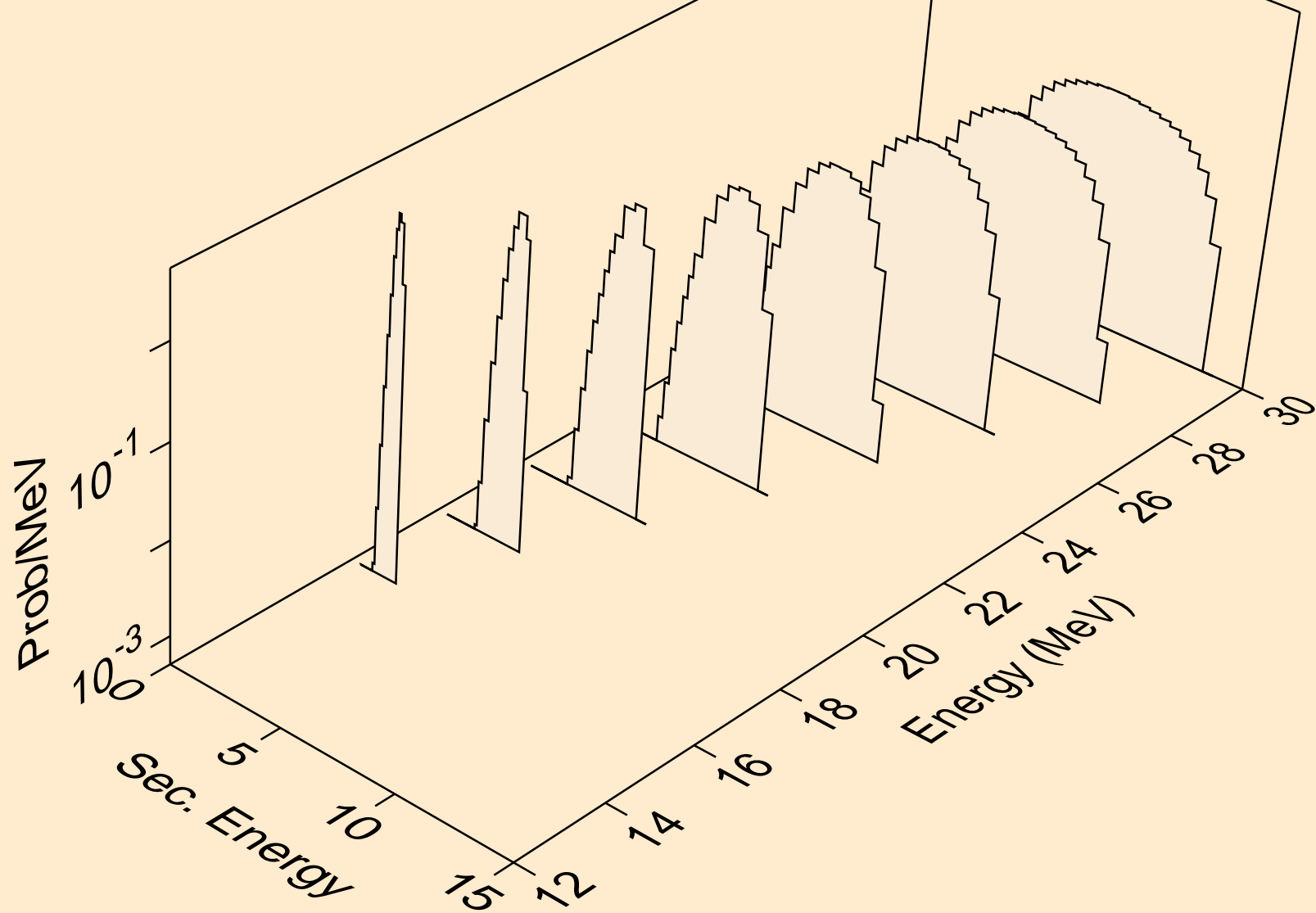
Alpha emission for (a,x)



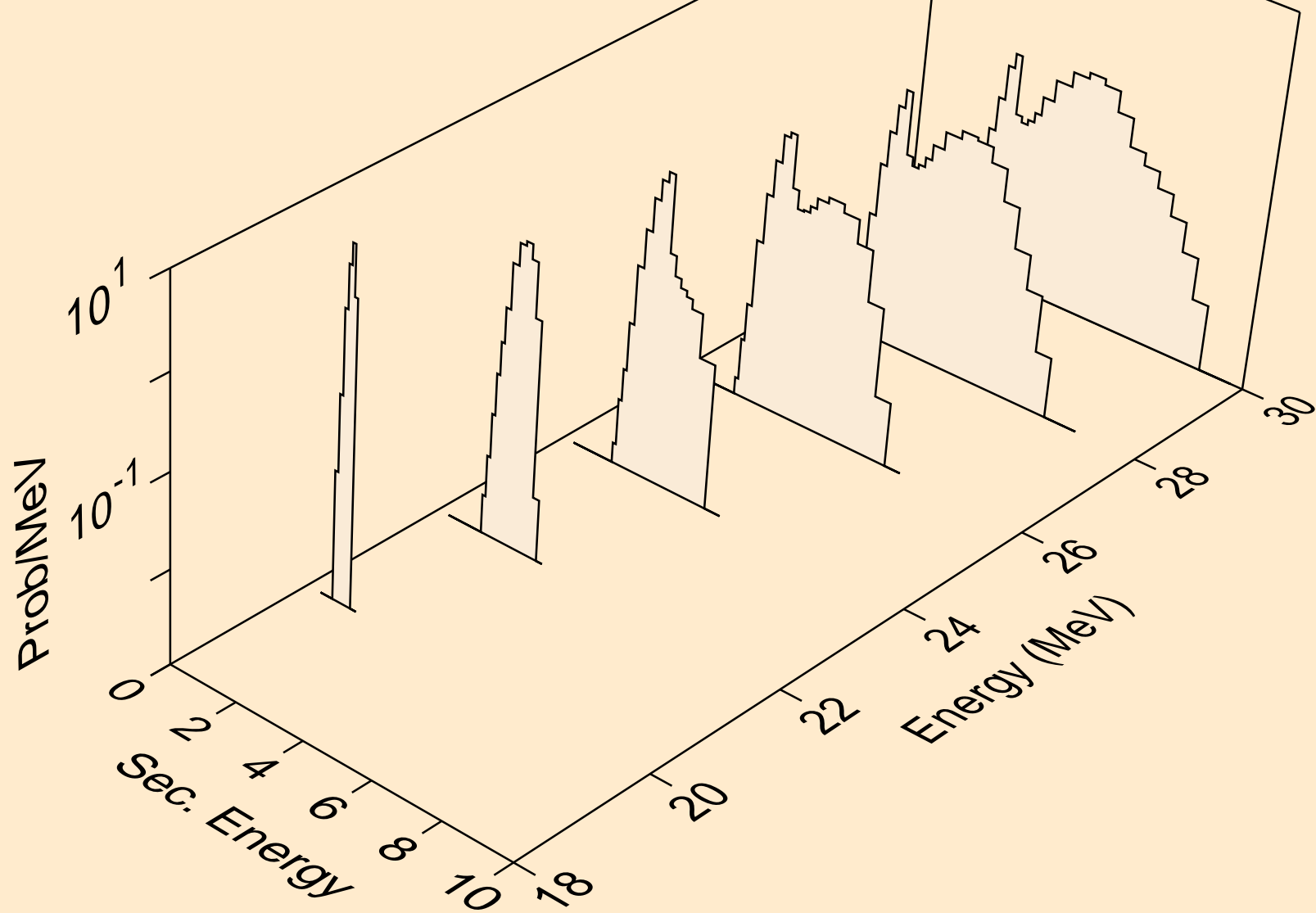
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,n\*)a



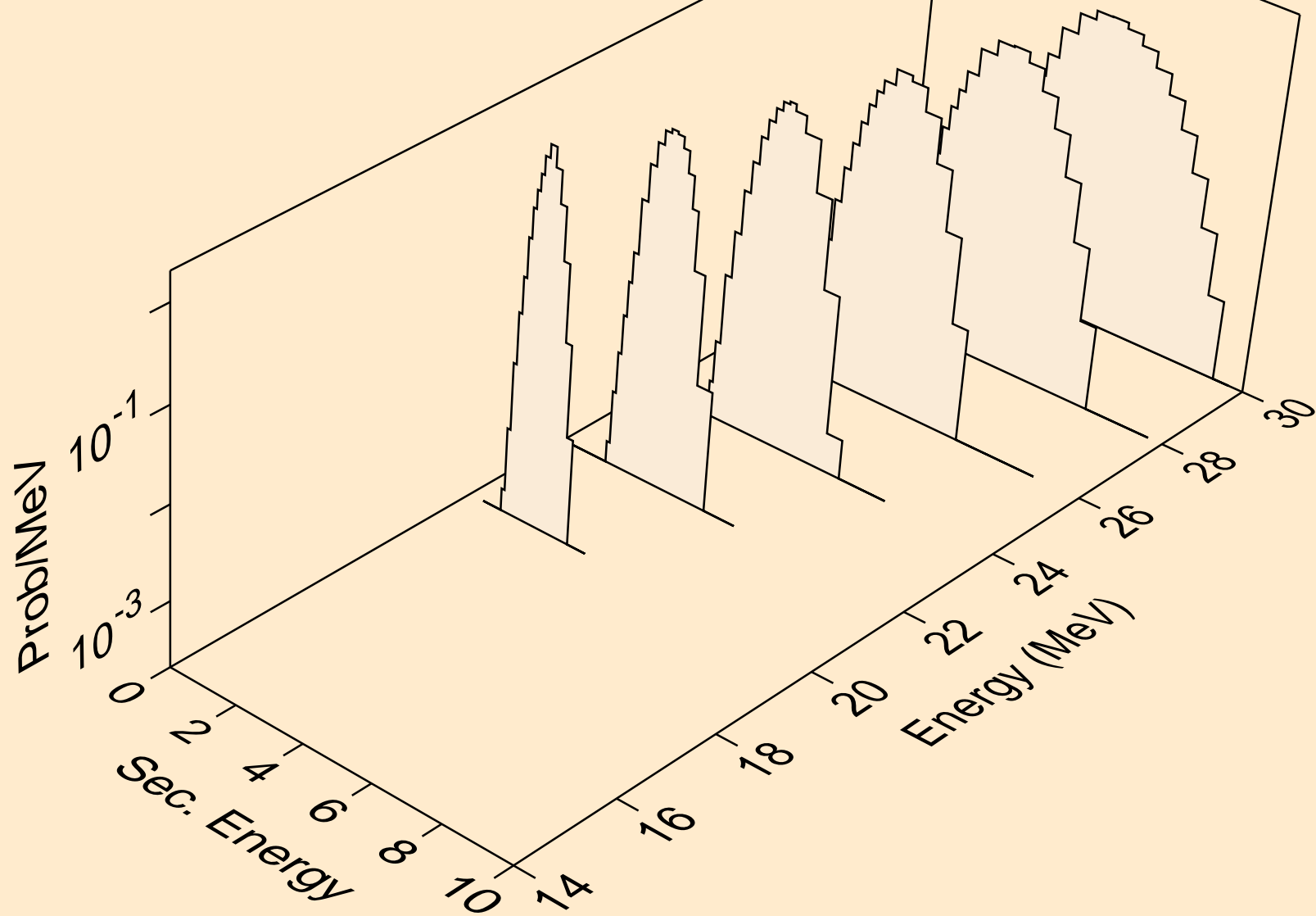
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2n)a



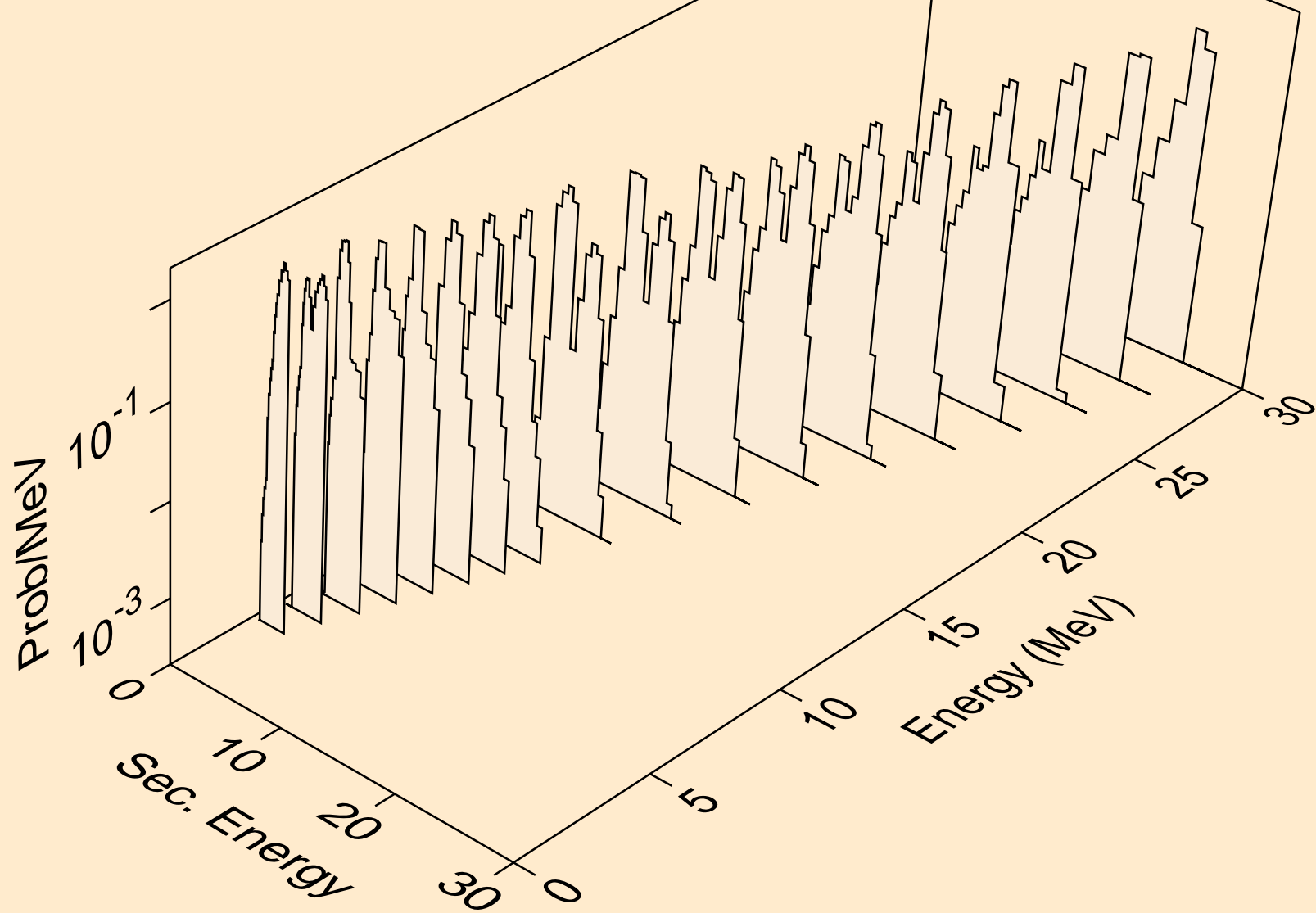
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,3n)a



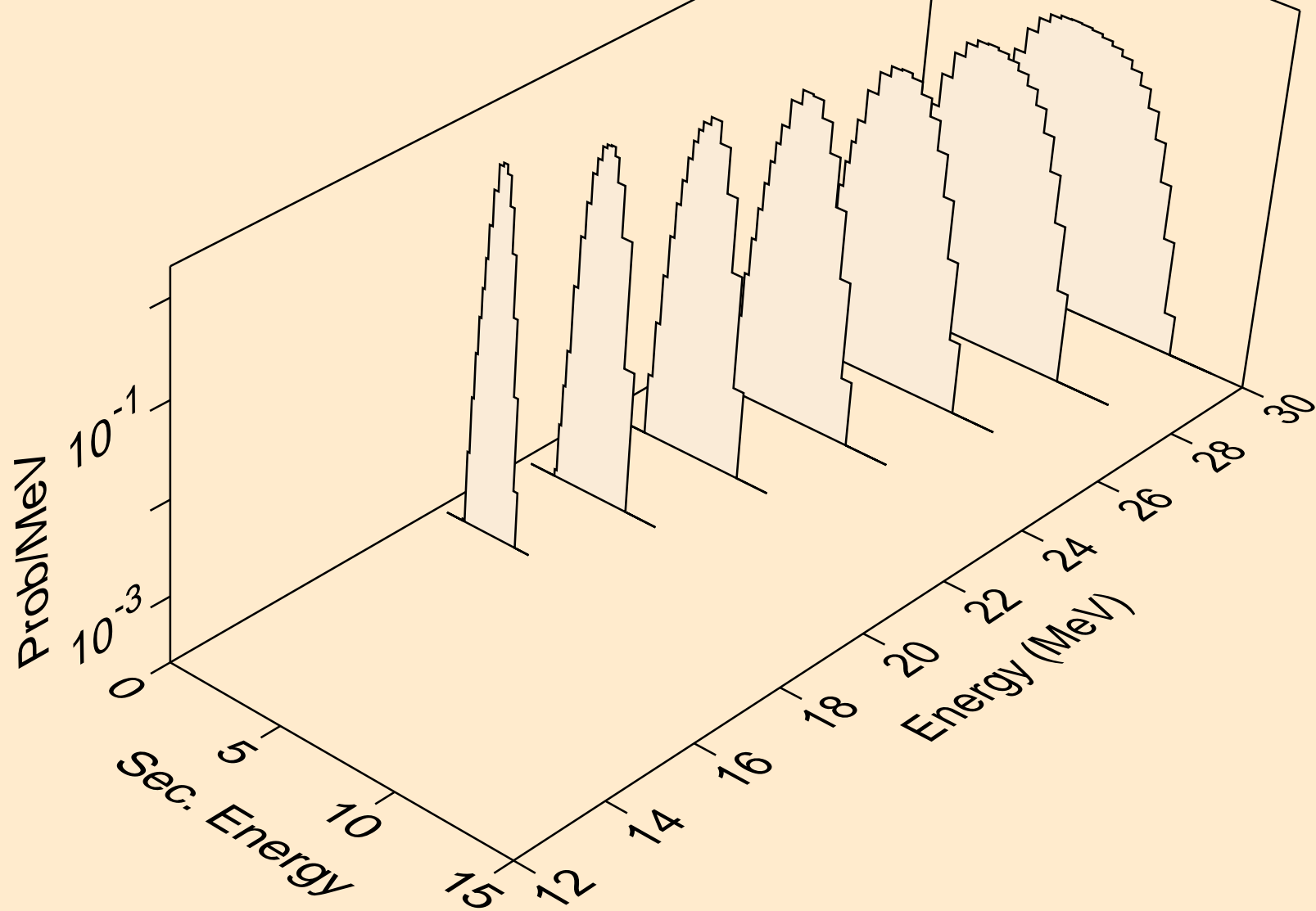
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,n\*)2a



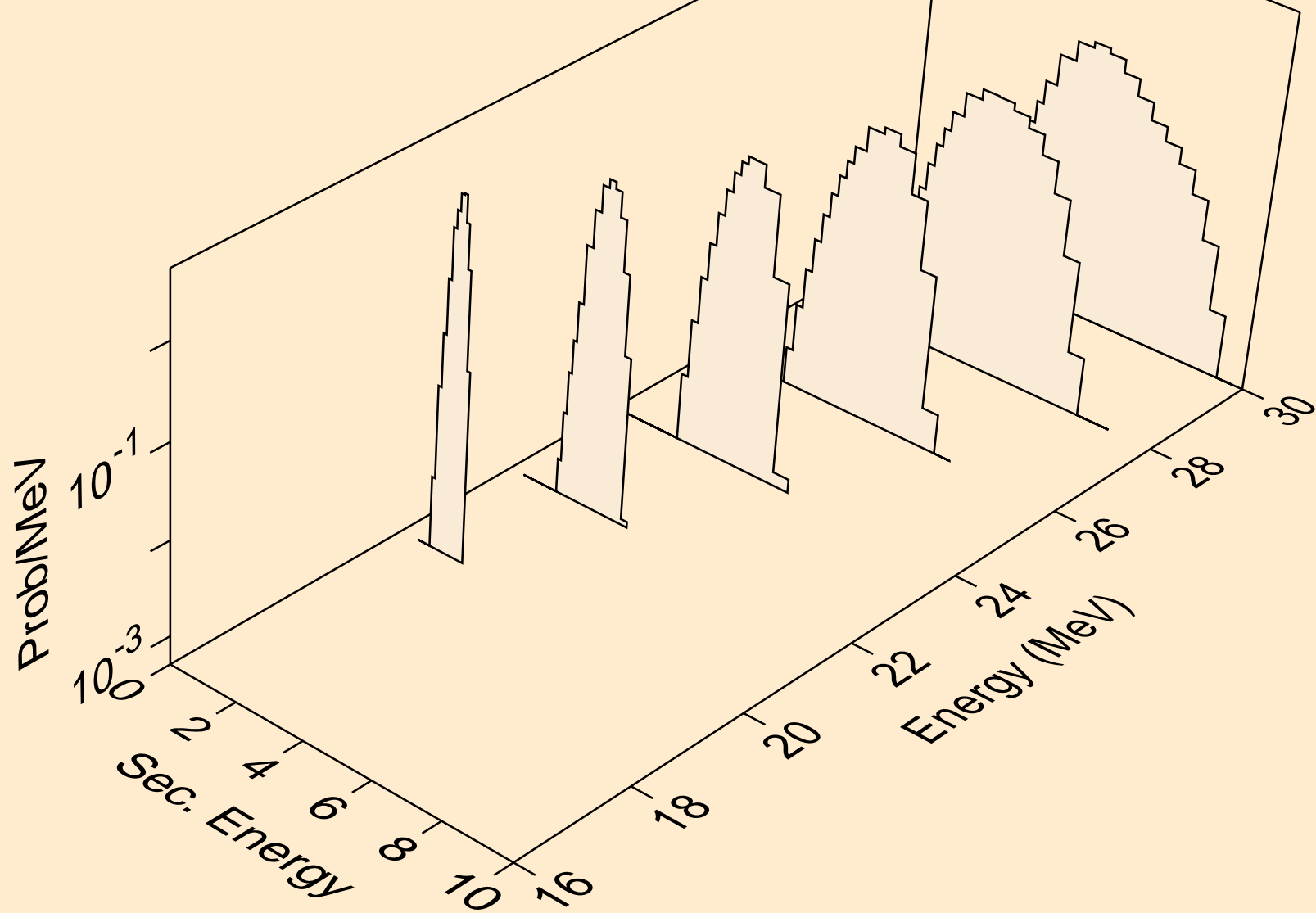
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for inelastic



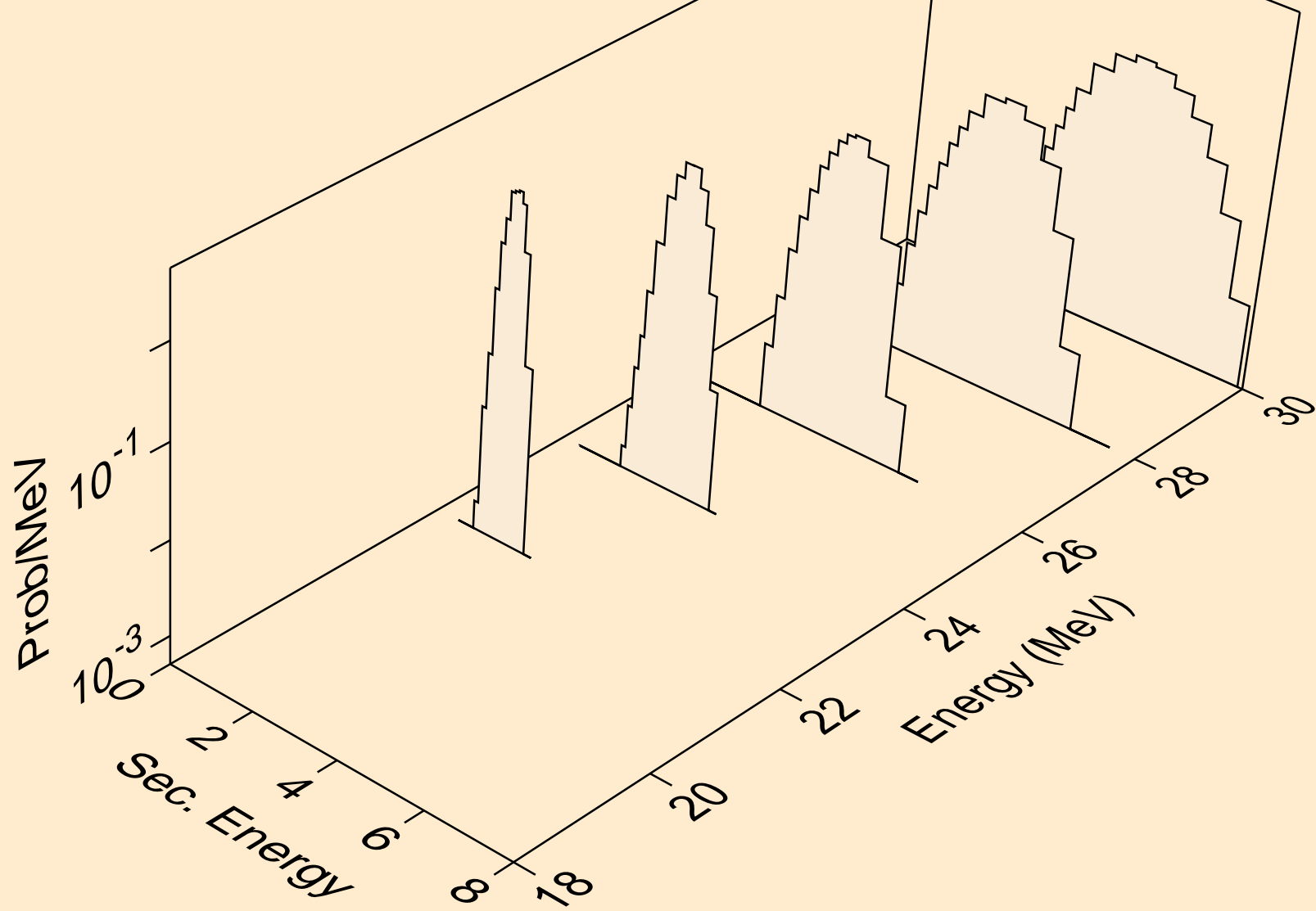
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,2a)



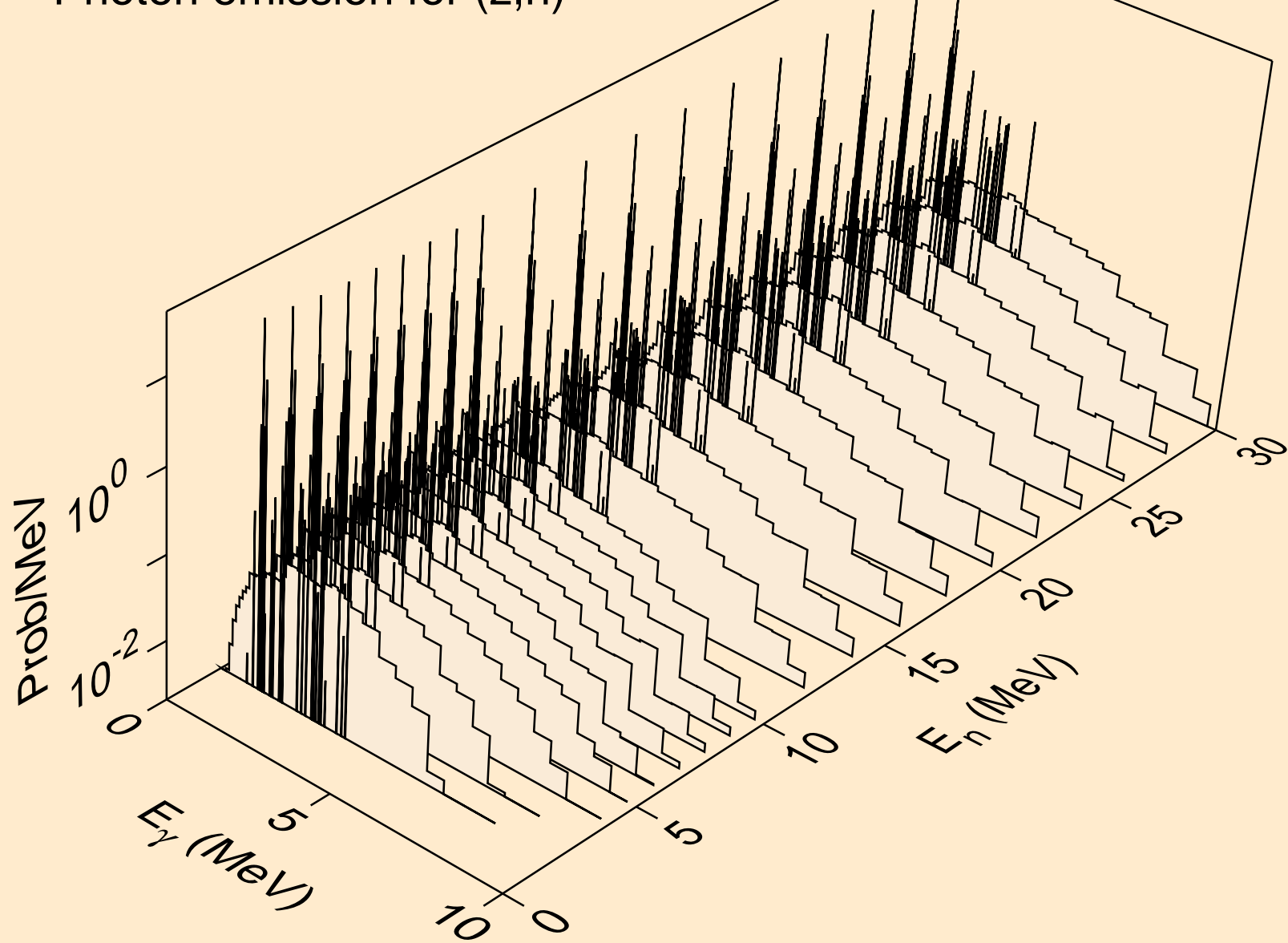
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,pa)



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Alpha emission for (a,da)

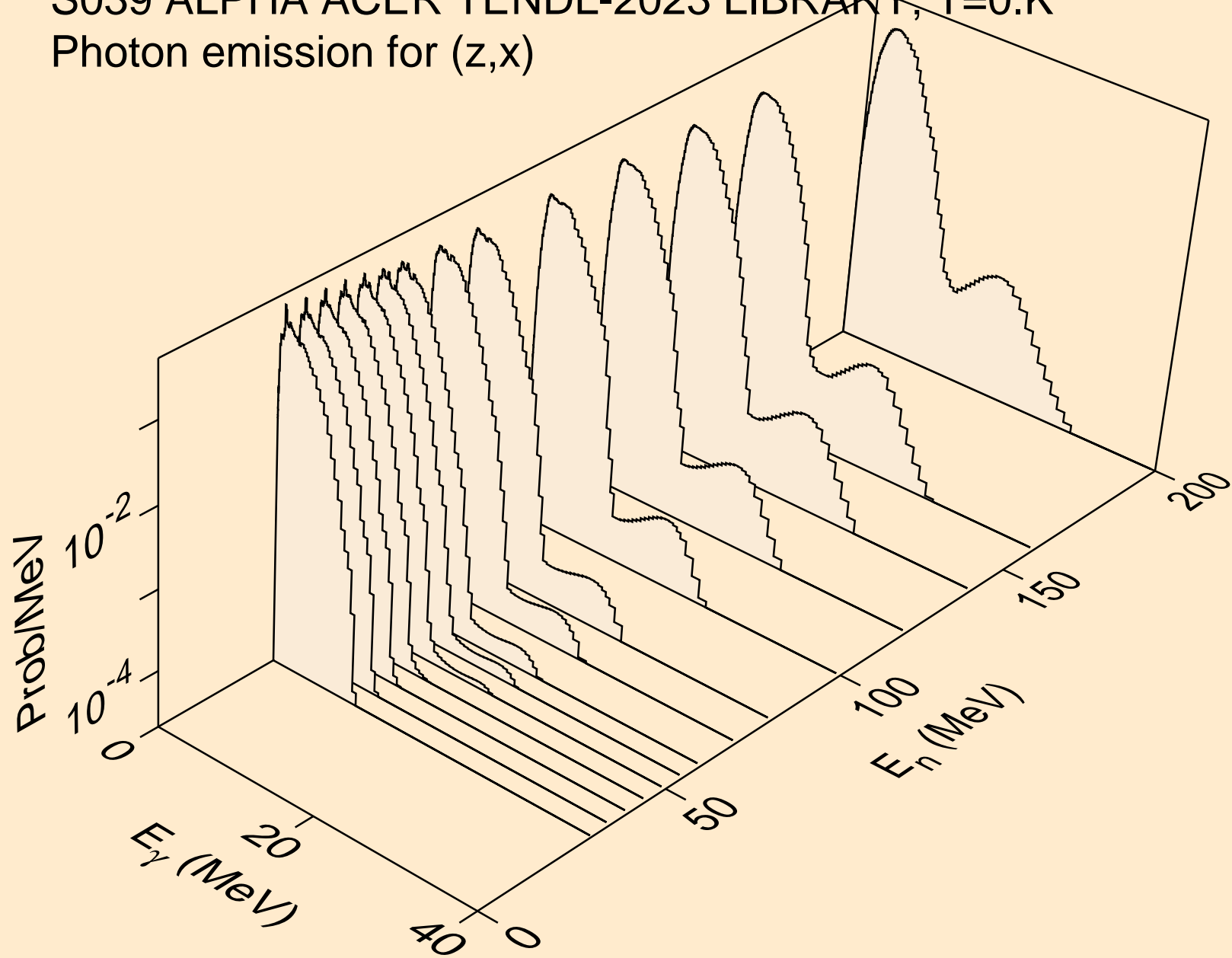


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (z,n)

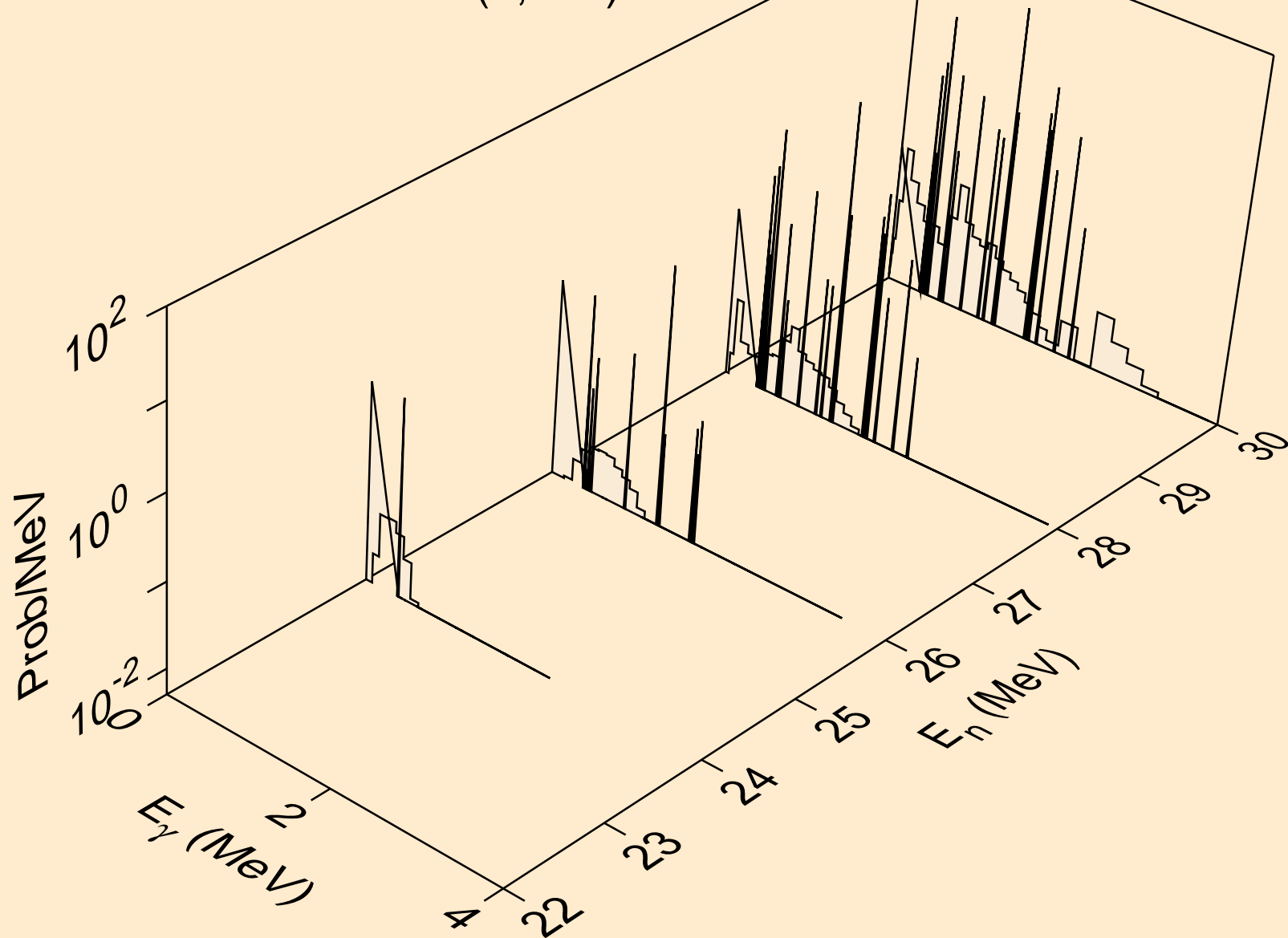


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

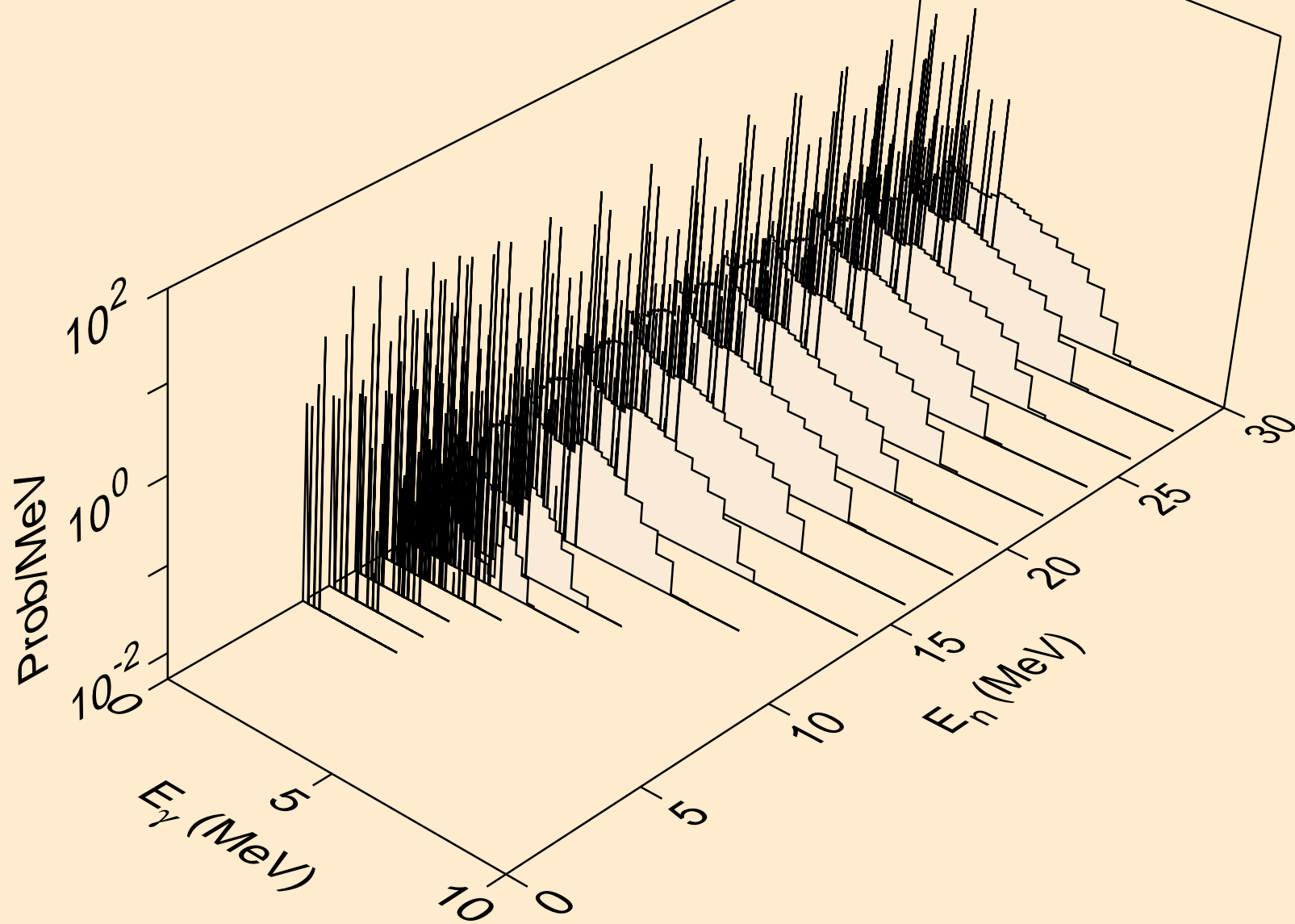
Photon emission for (z,x)



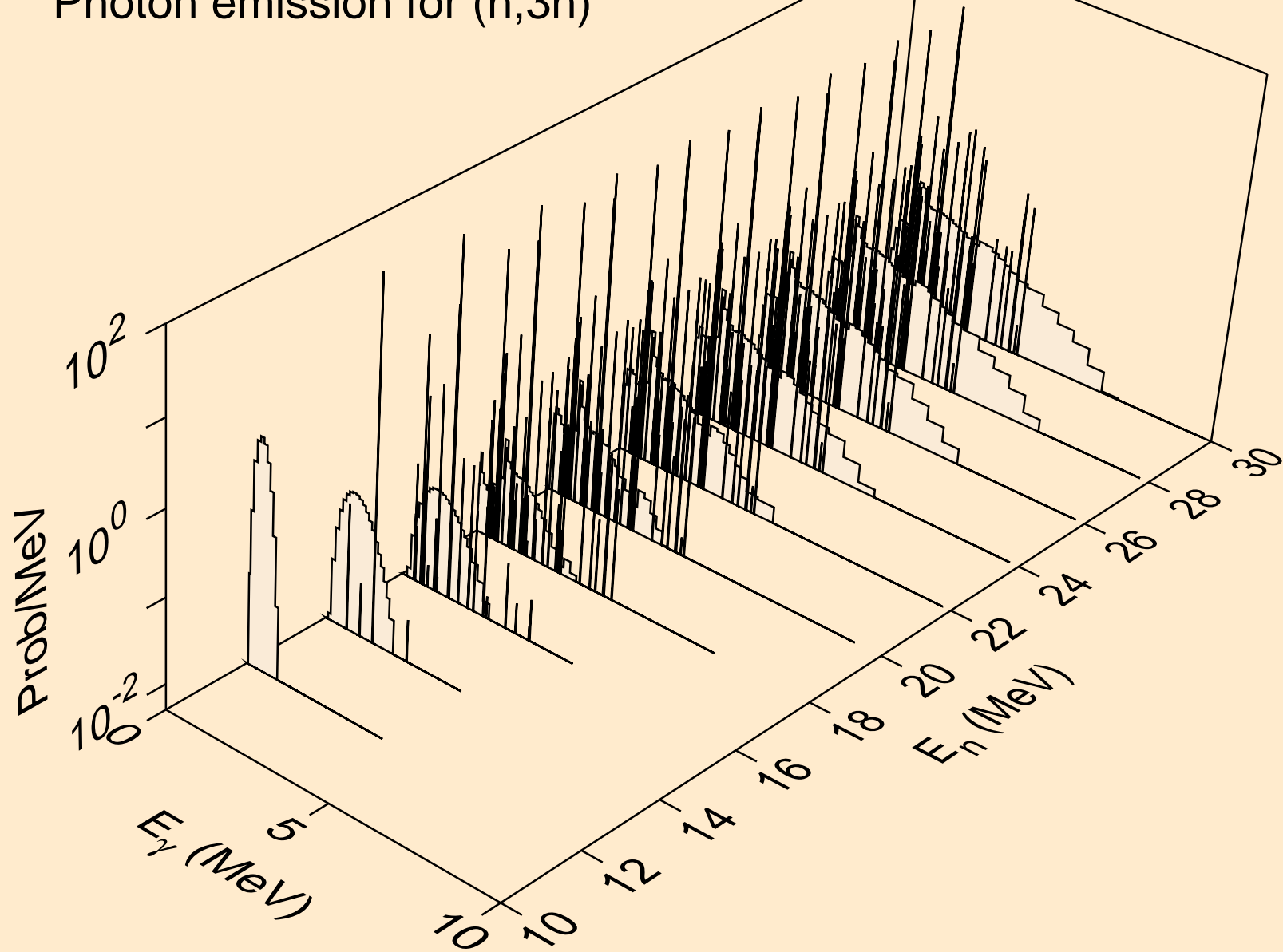
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



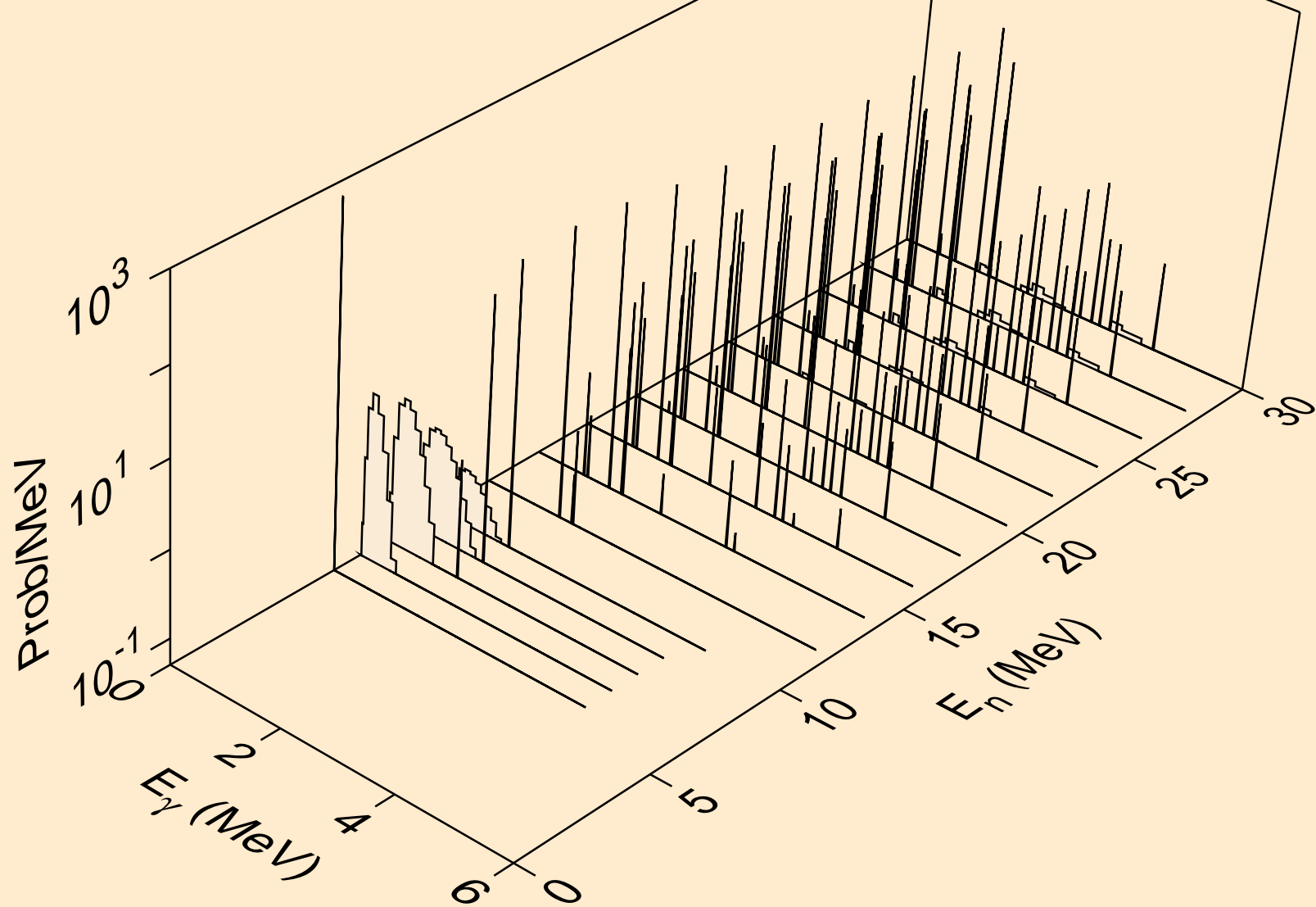
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



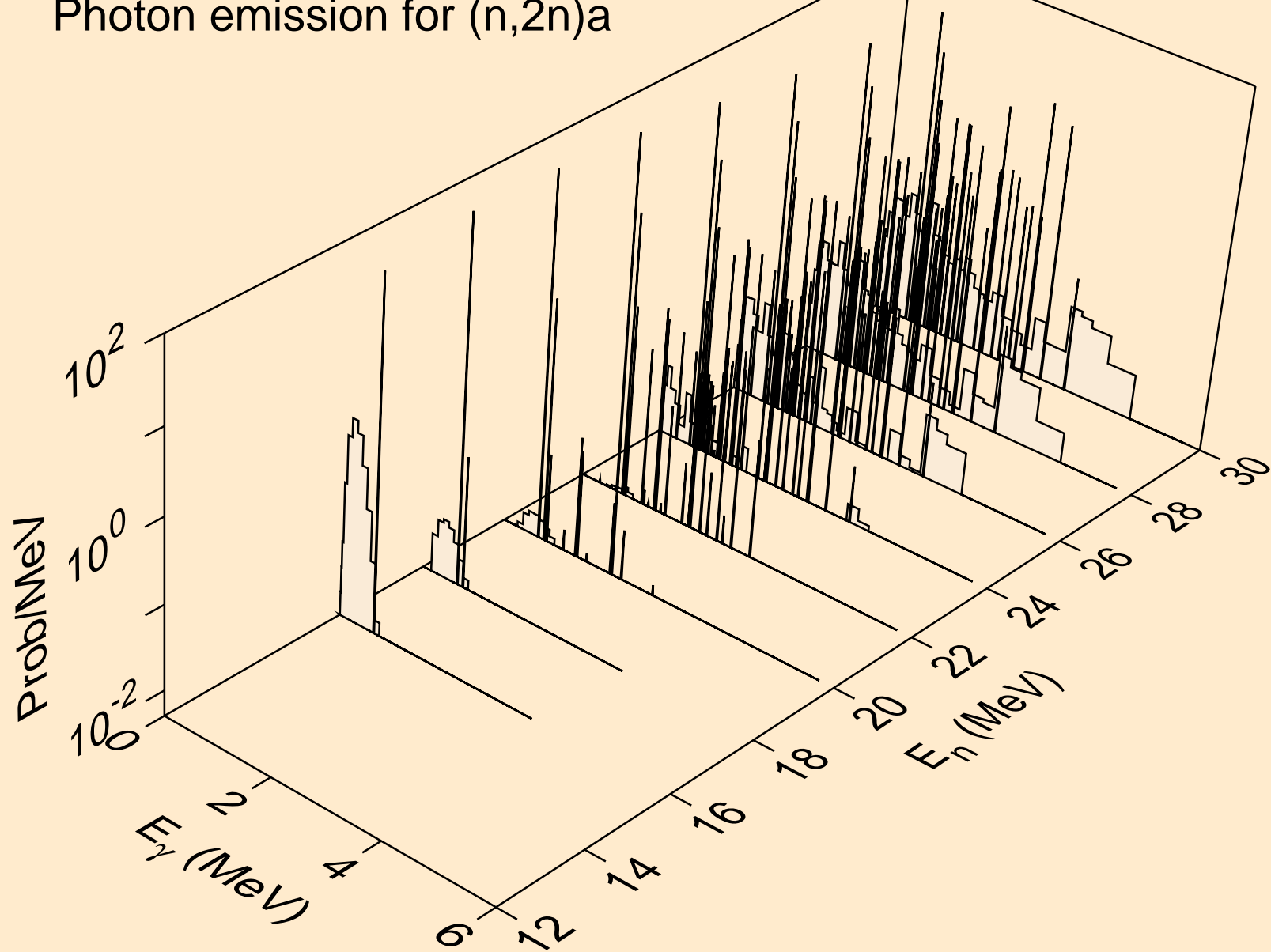
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



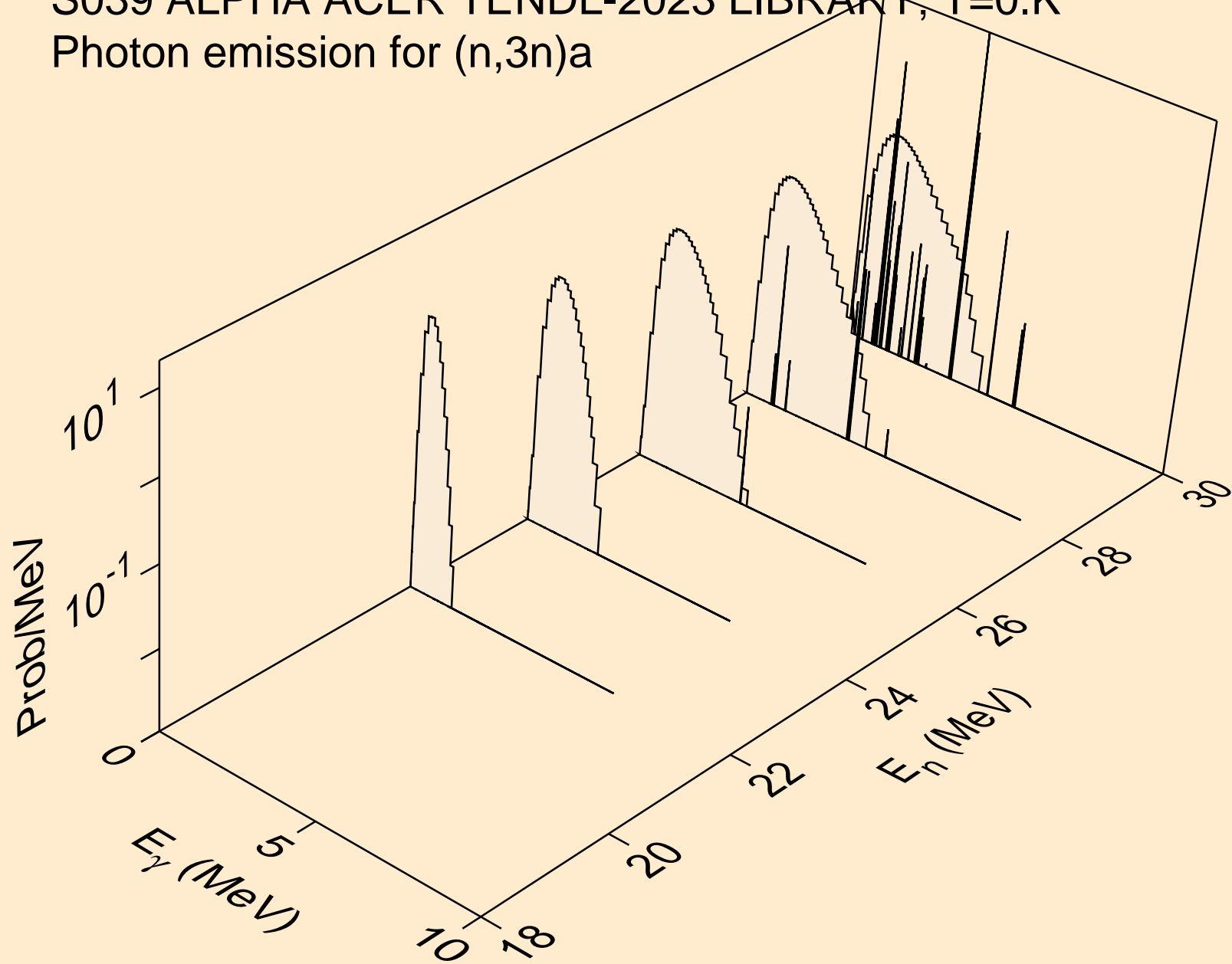
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



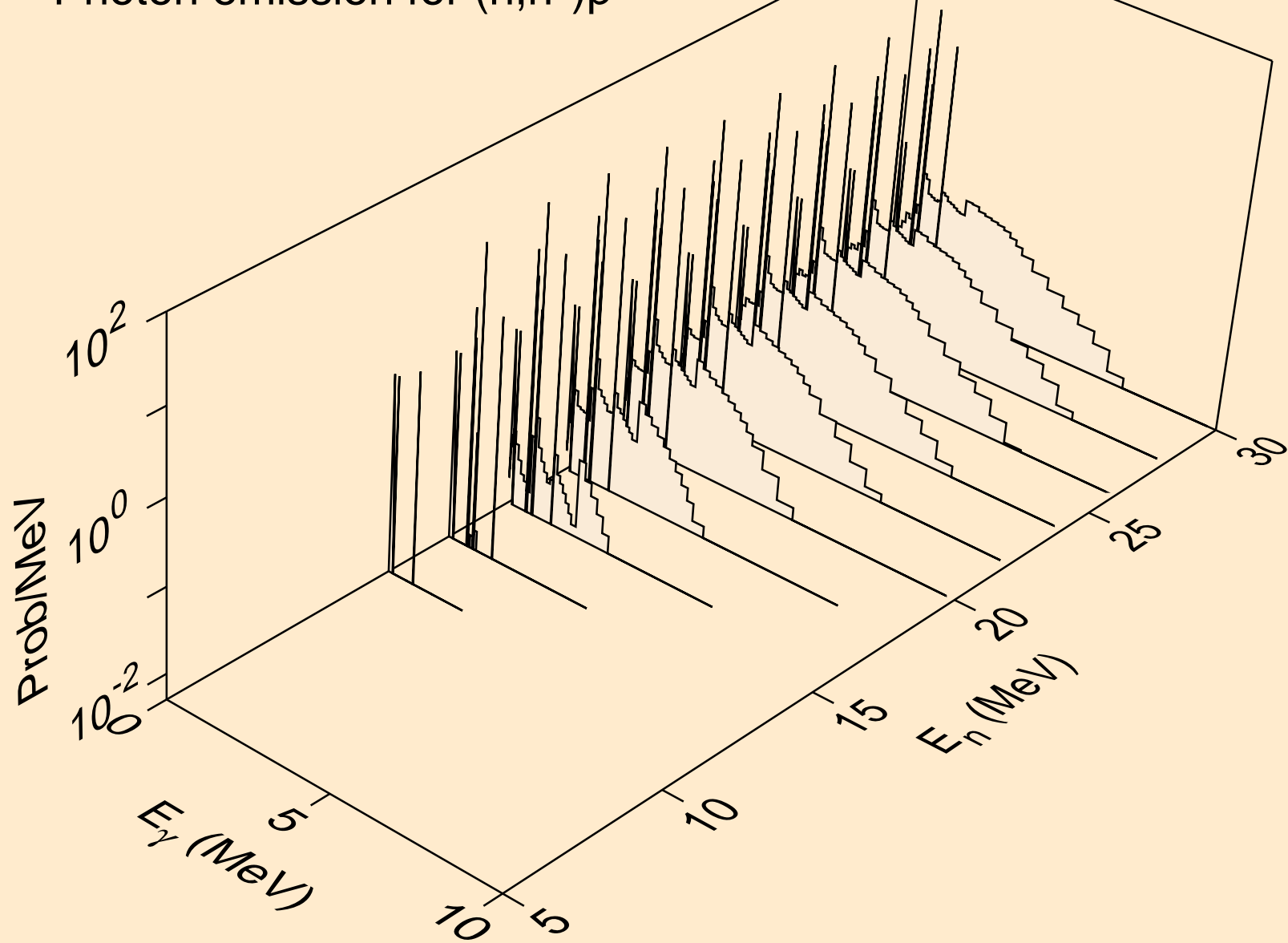
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



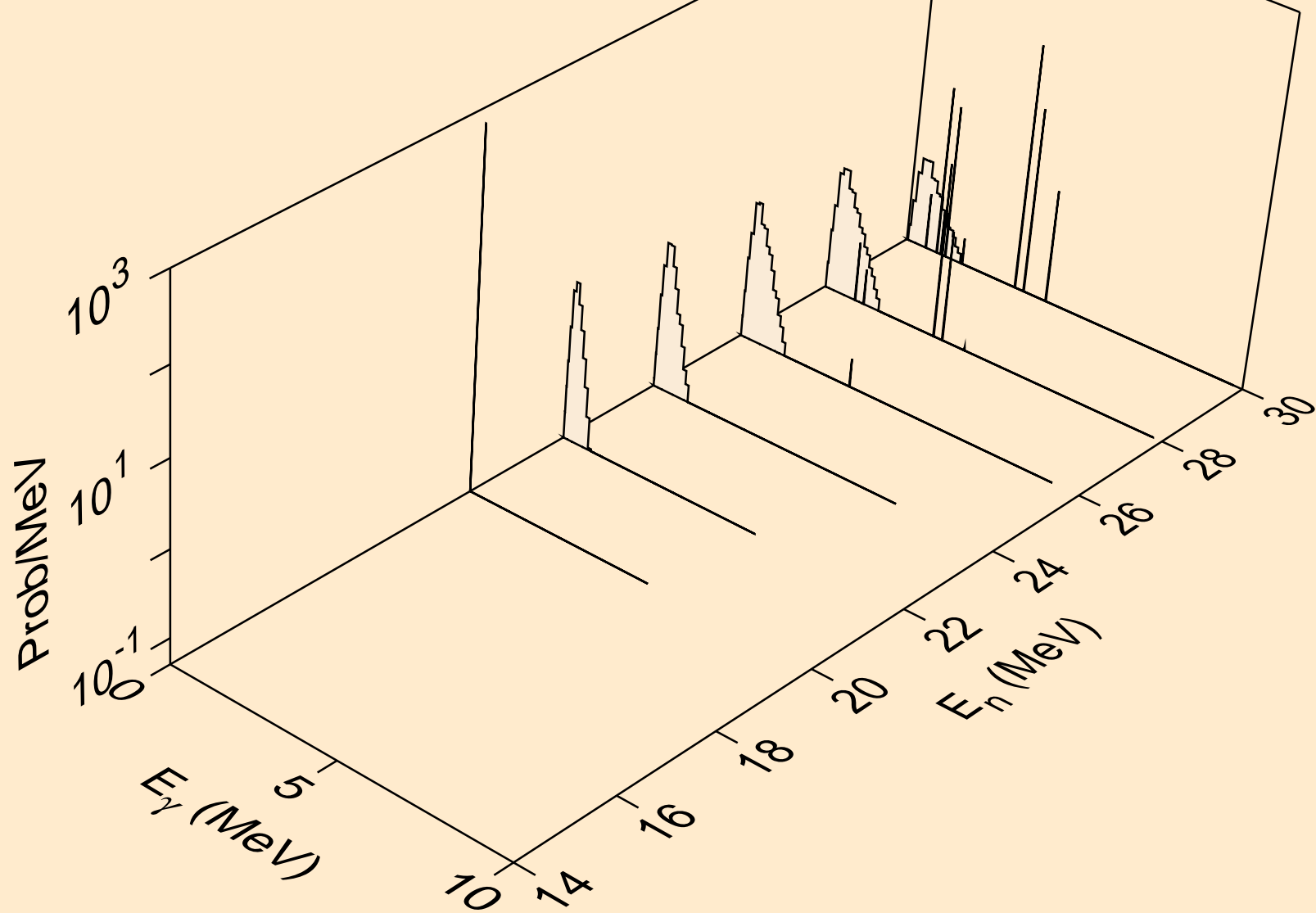
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



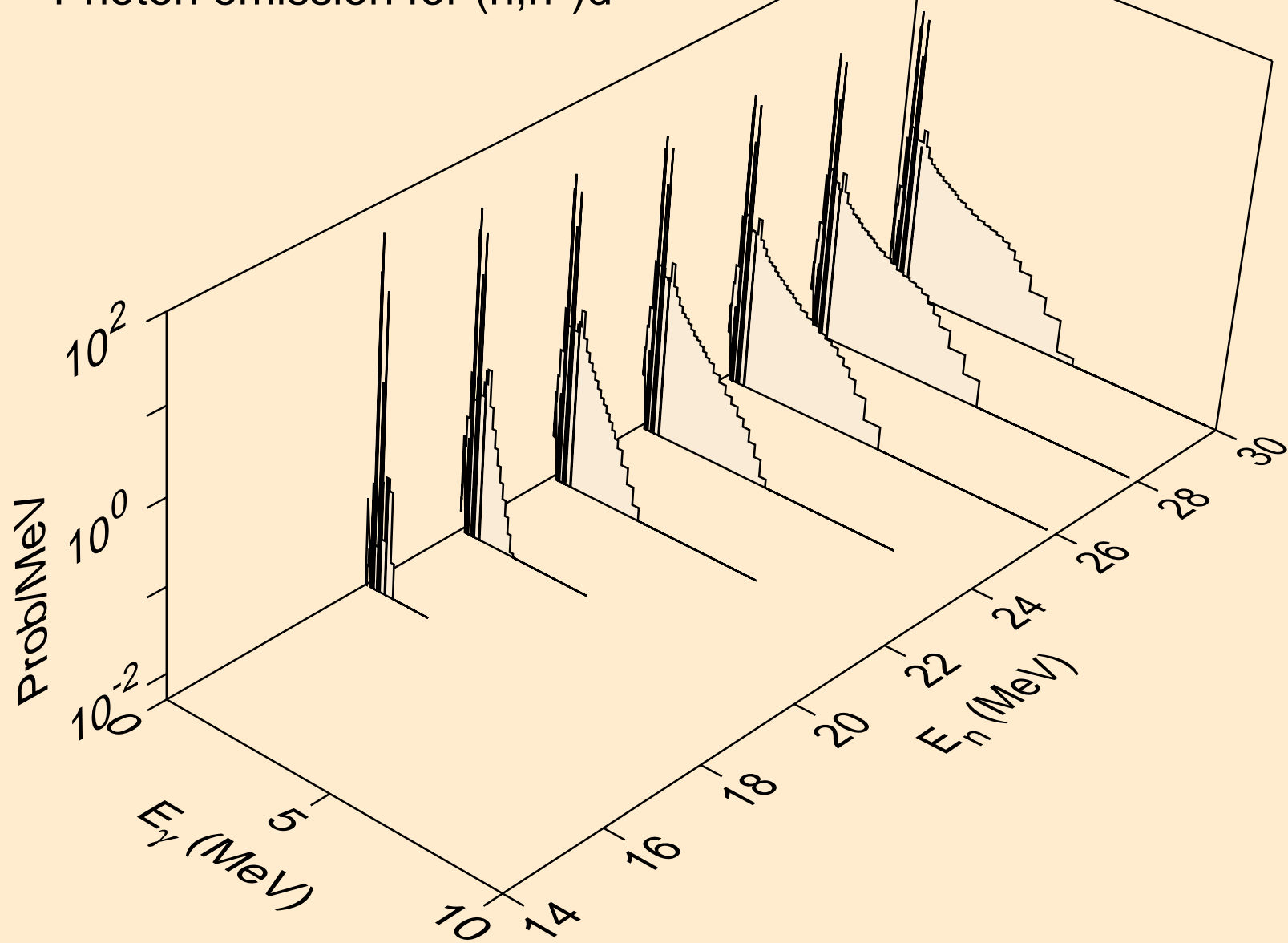
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



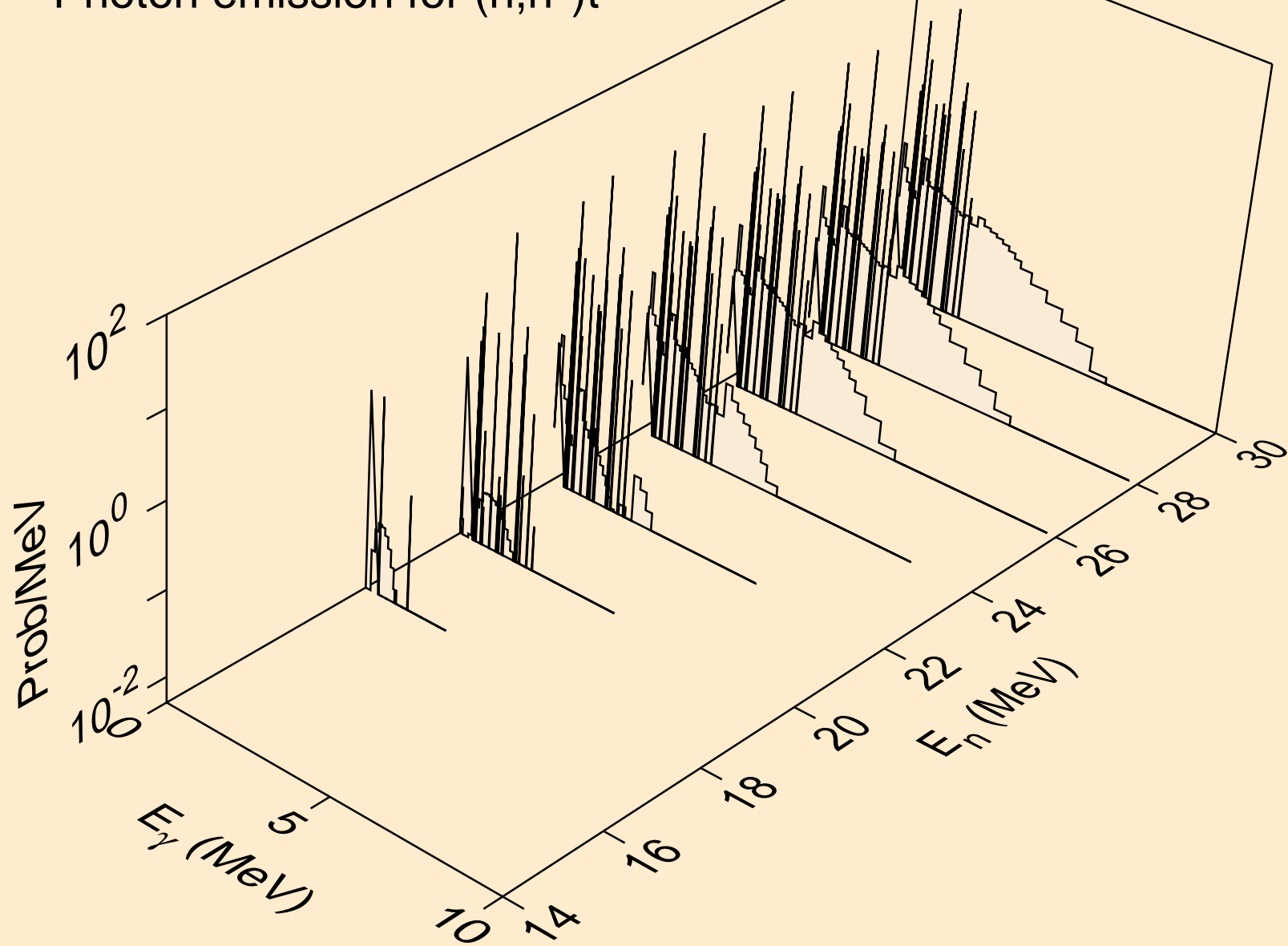
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



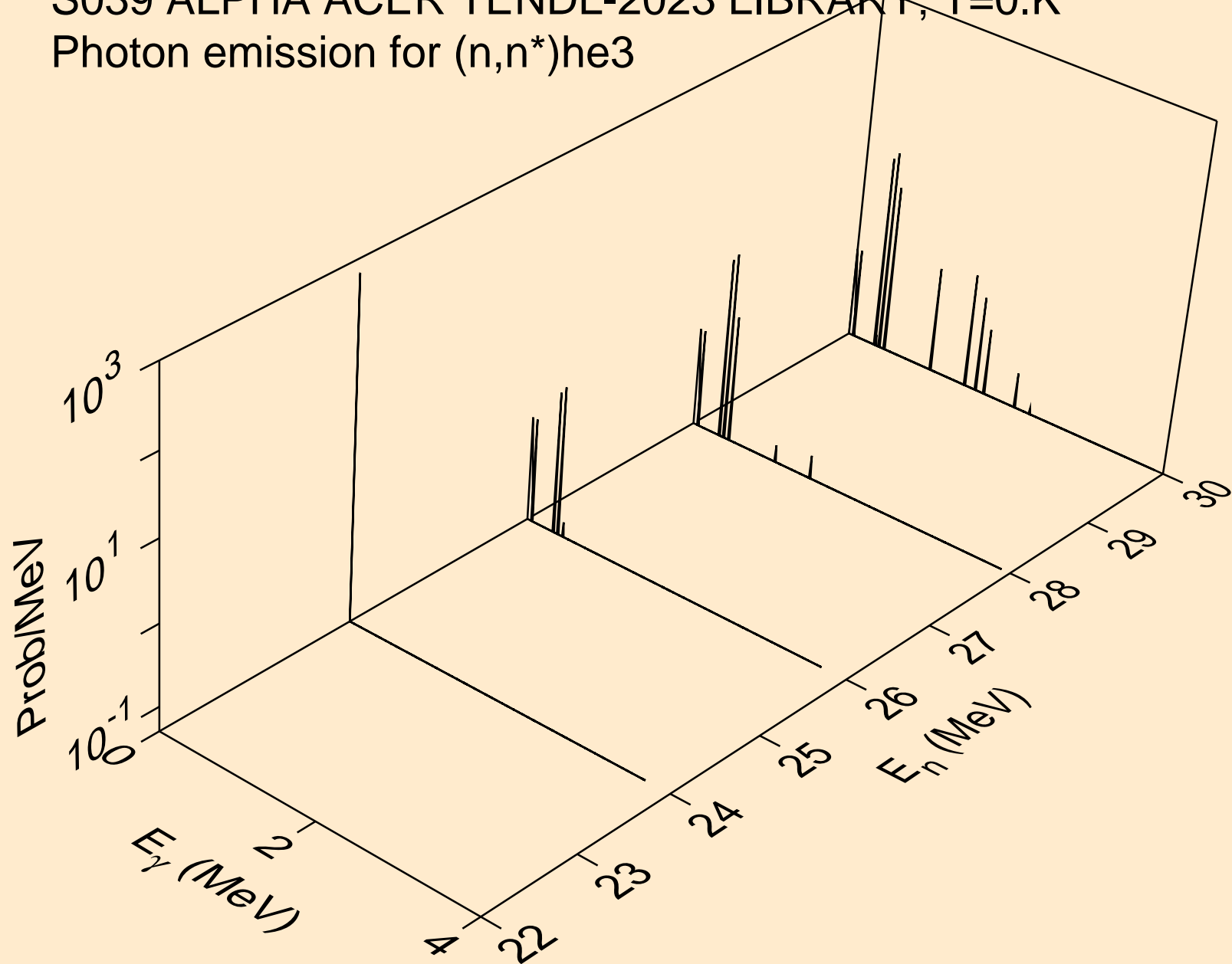
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



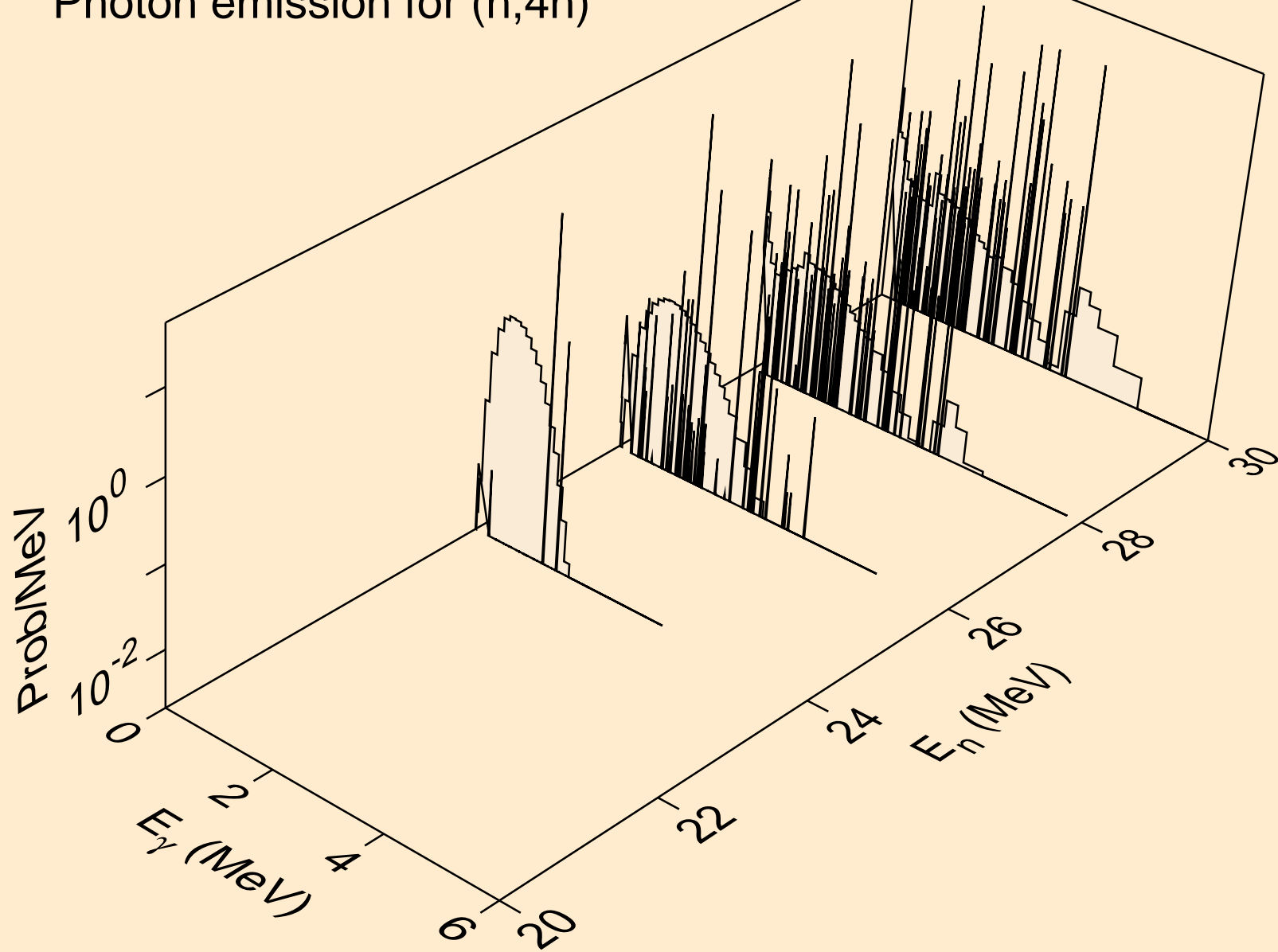
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



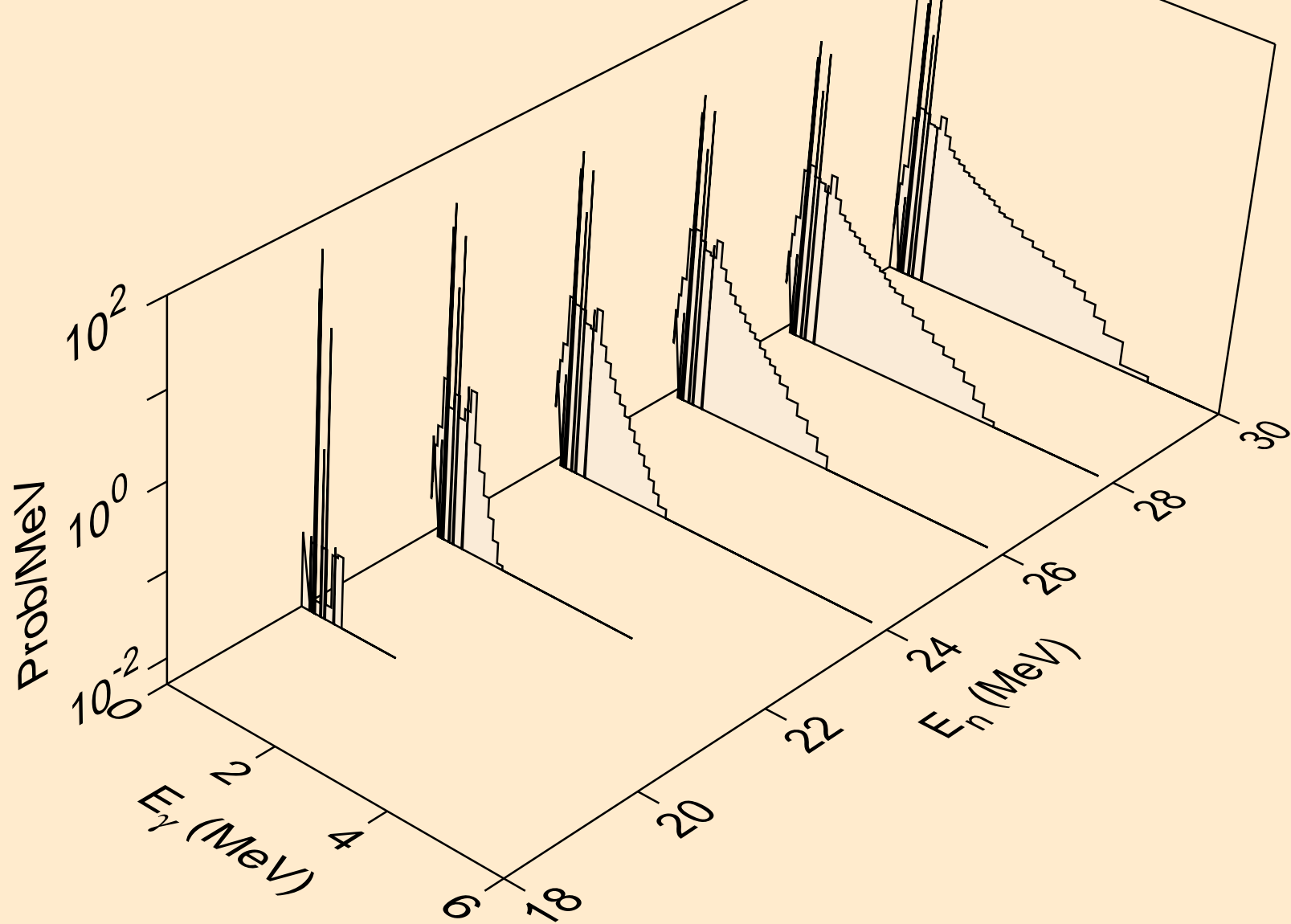
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



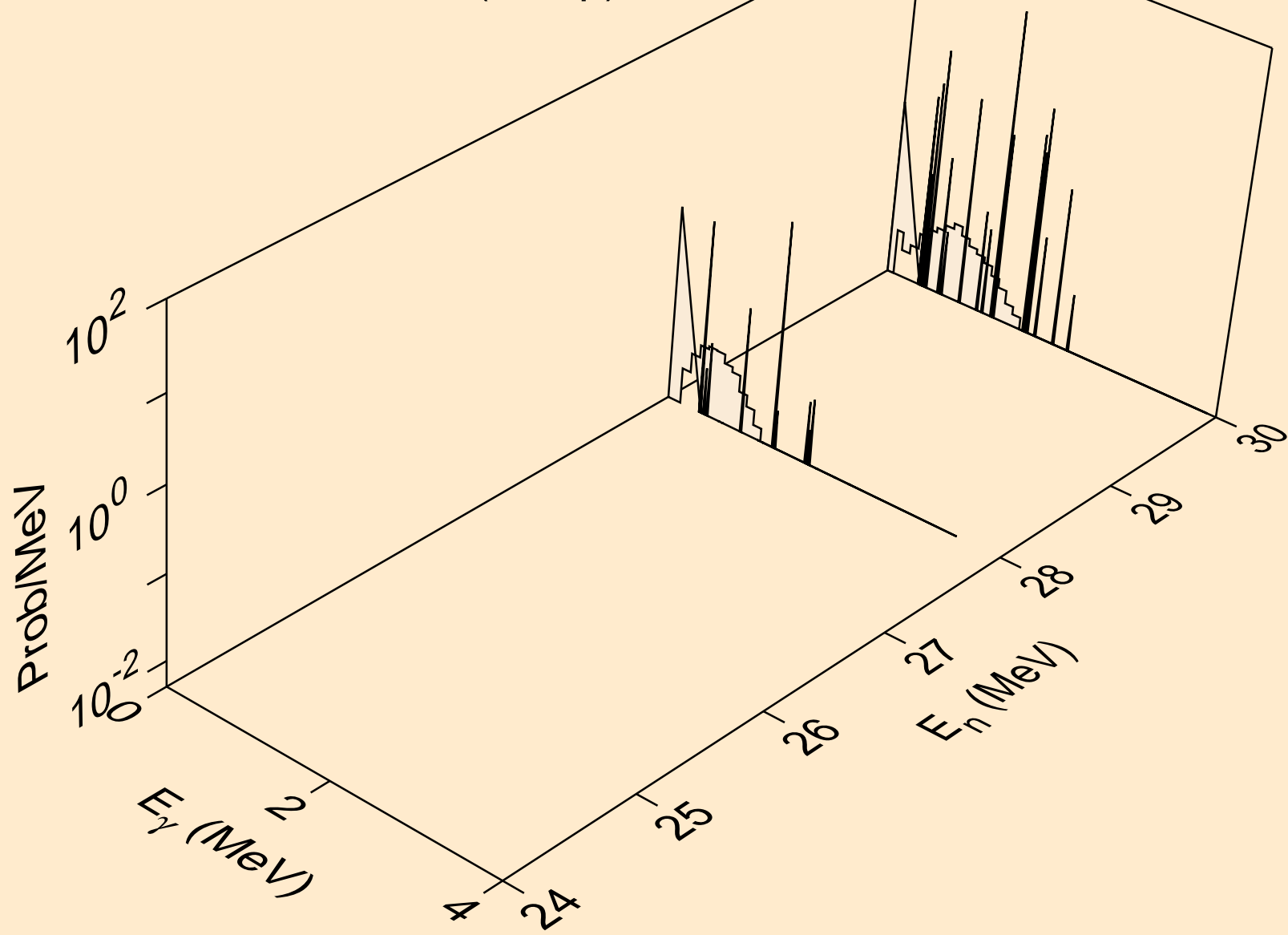
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)



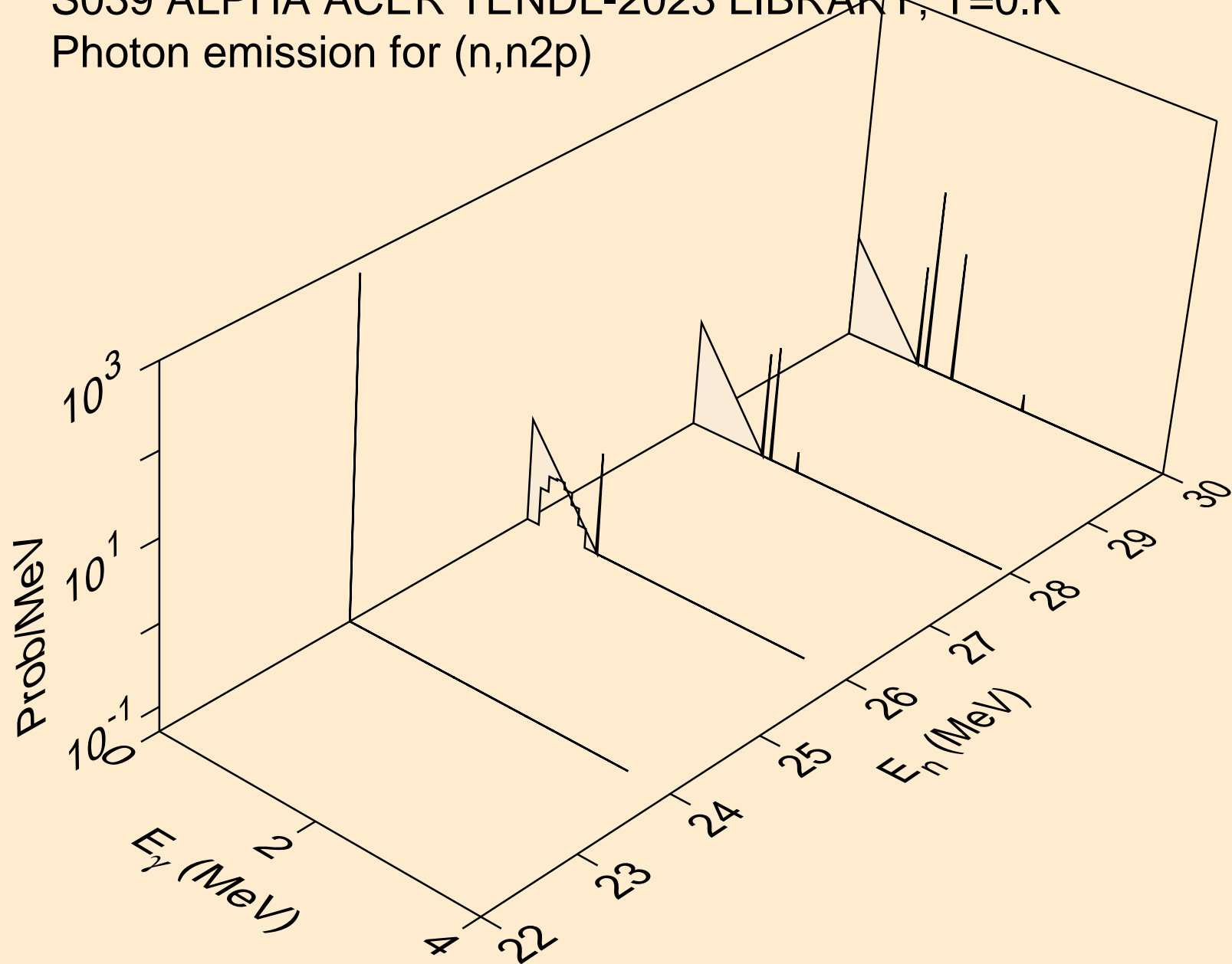
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



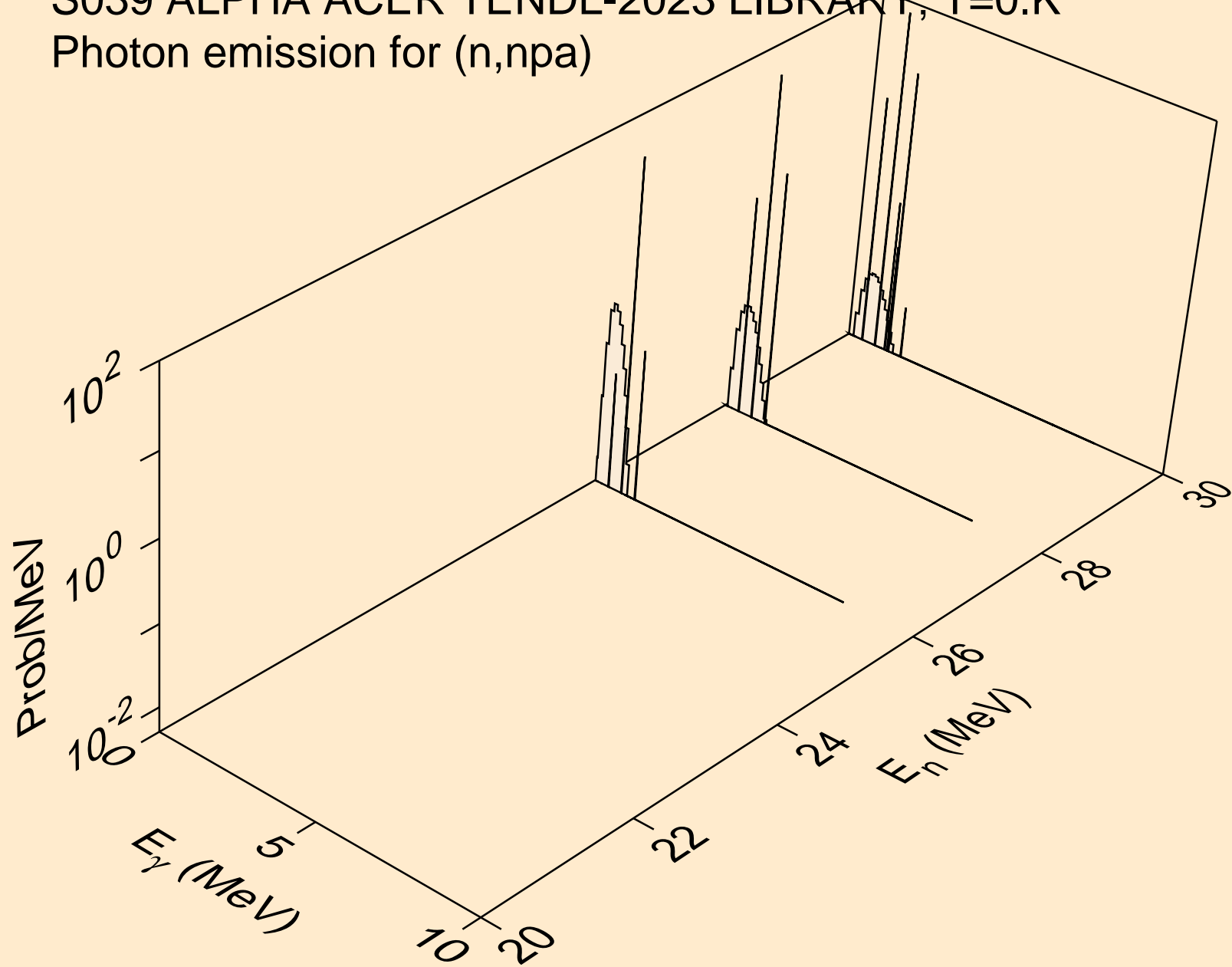
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



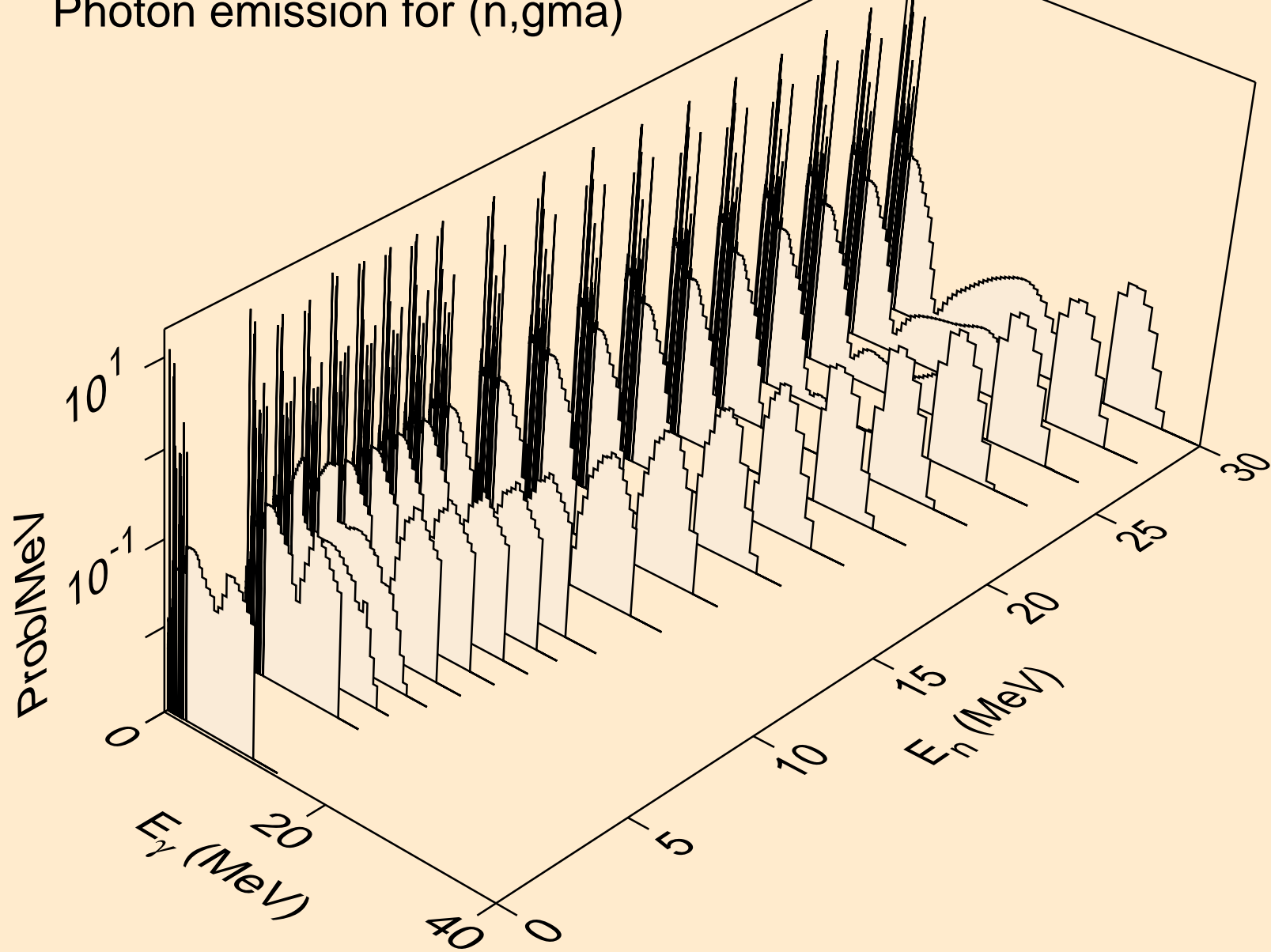
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



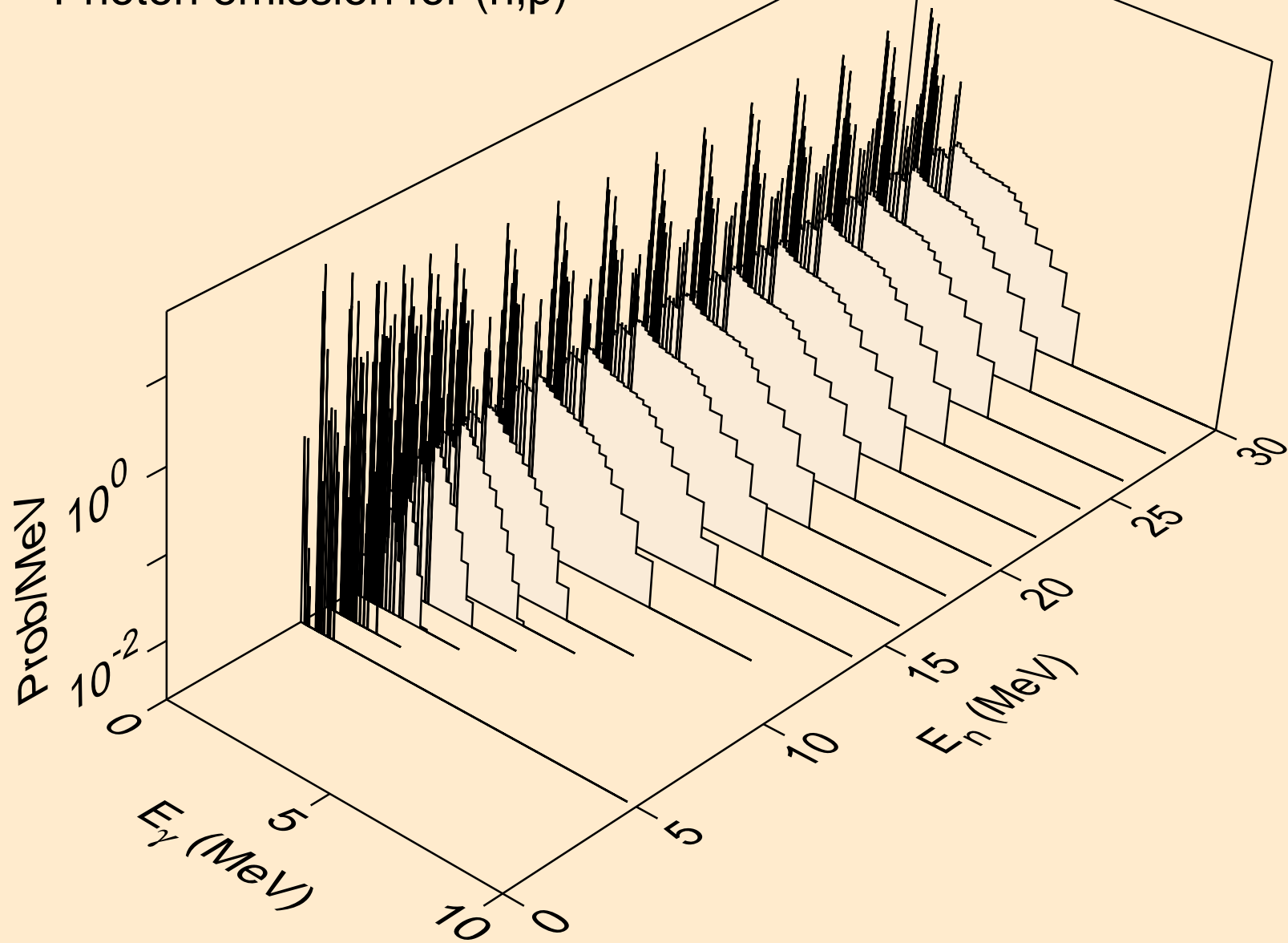
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



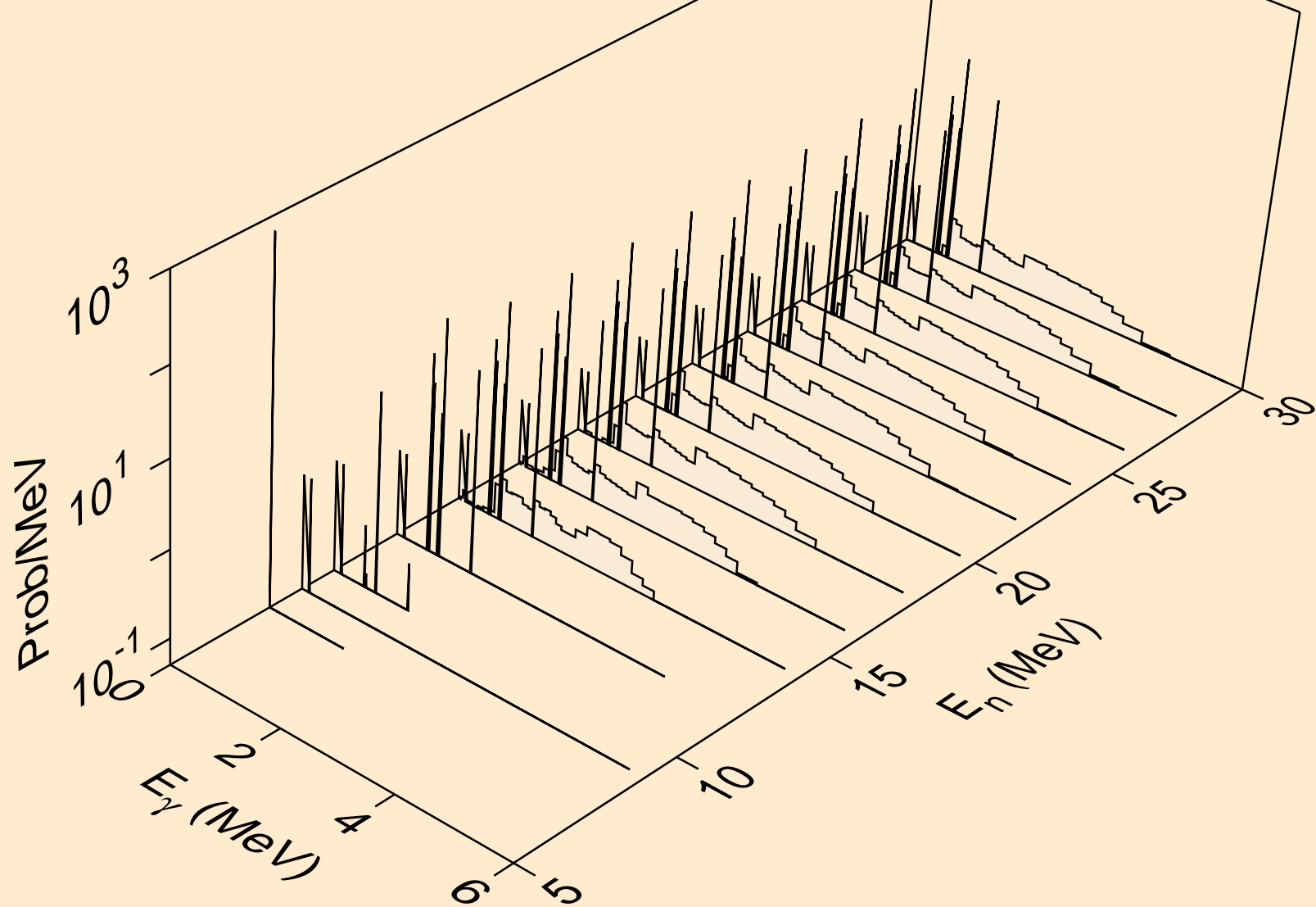
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



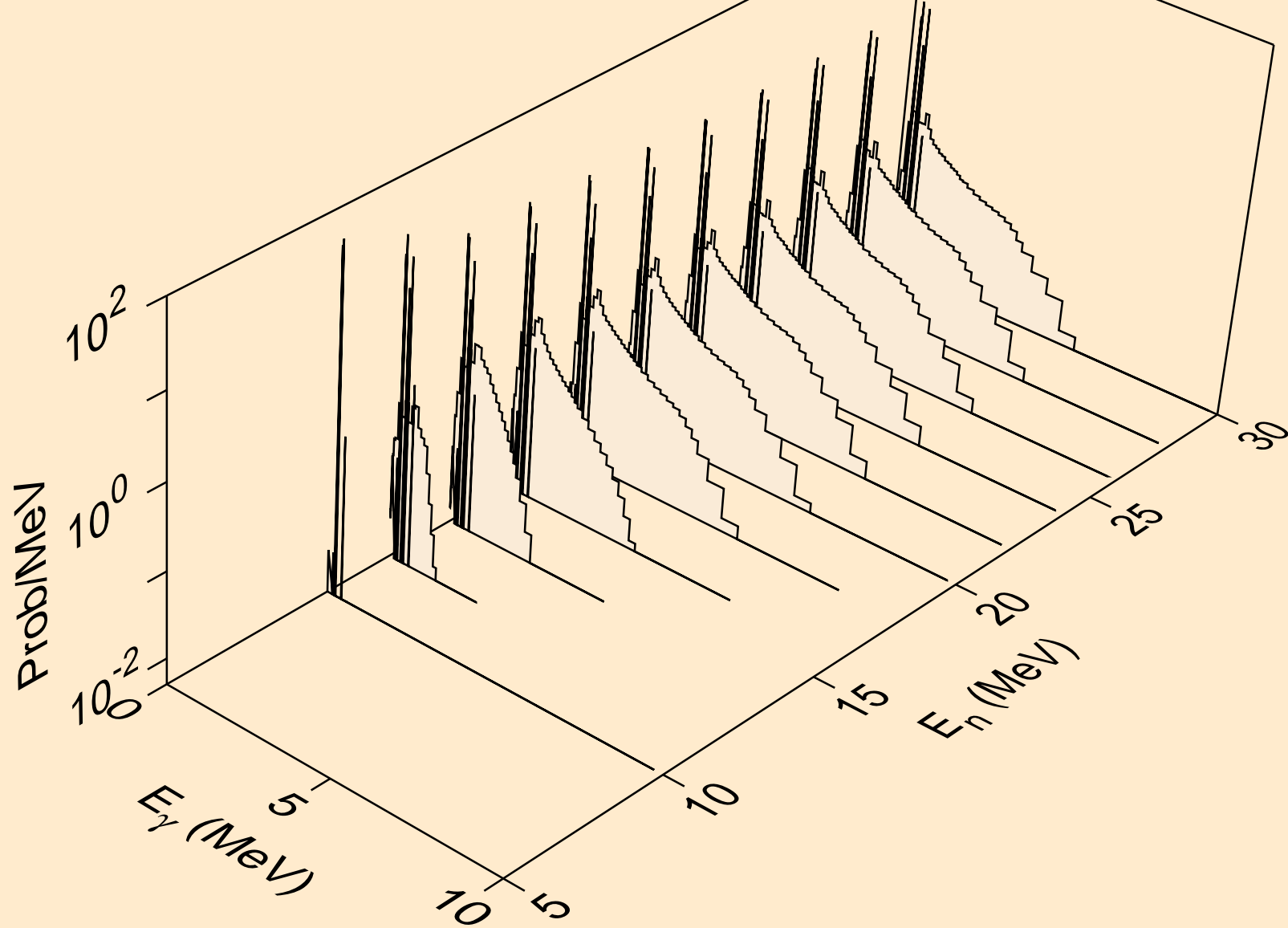
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



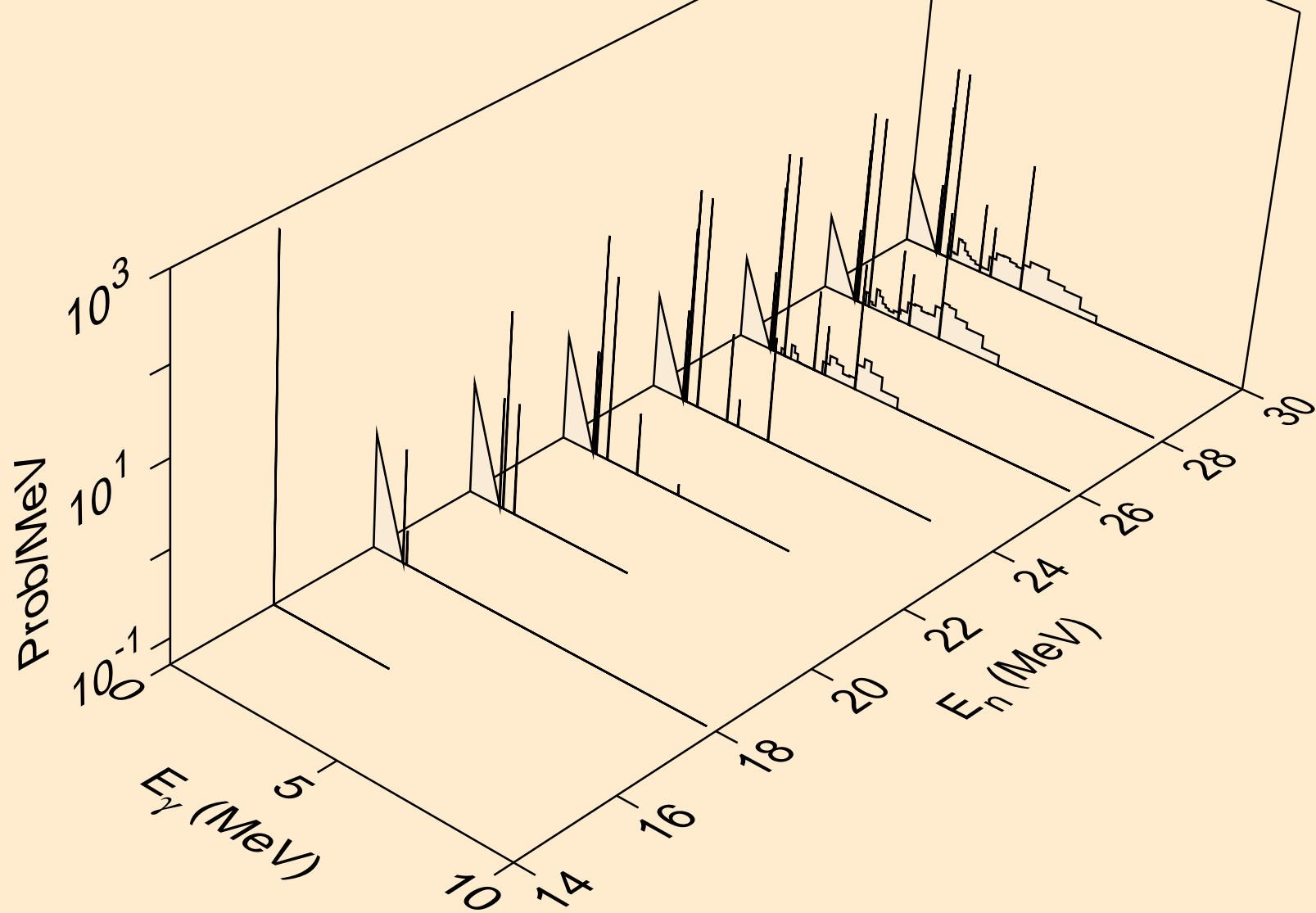
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



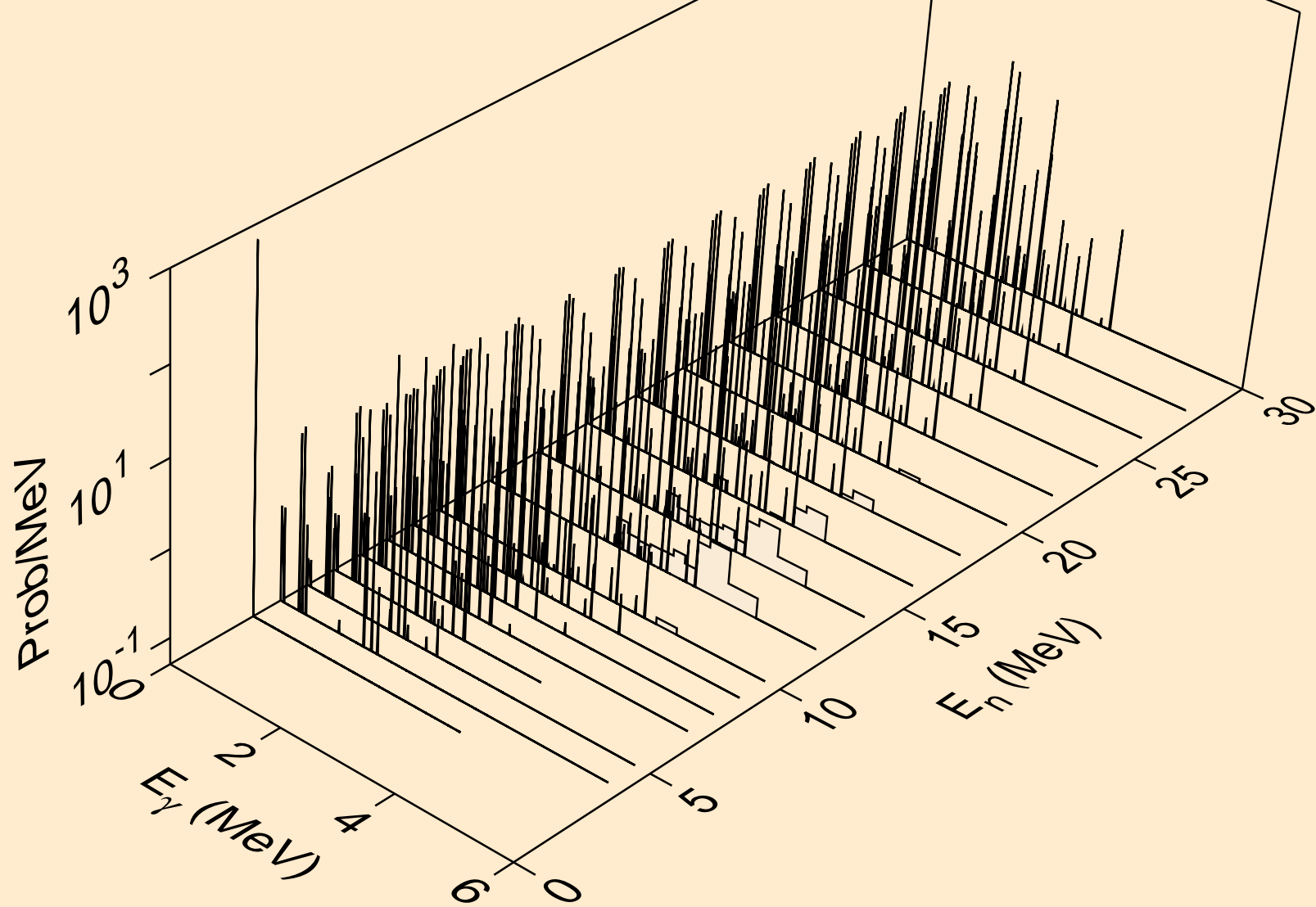
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



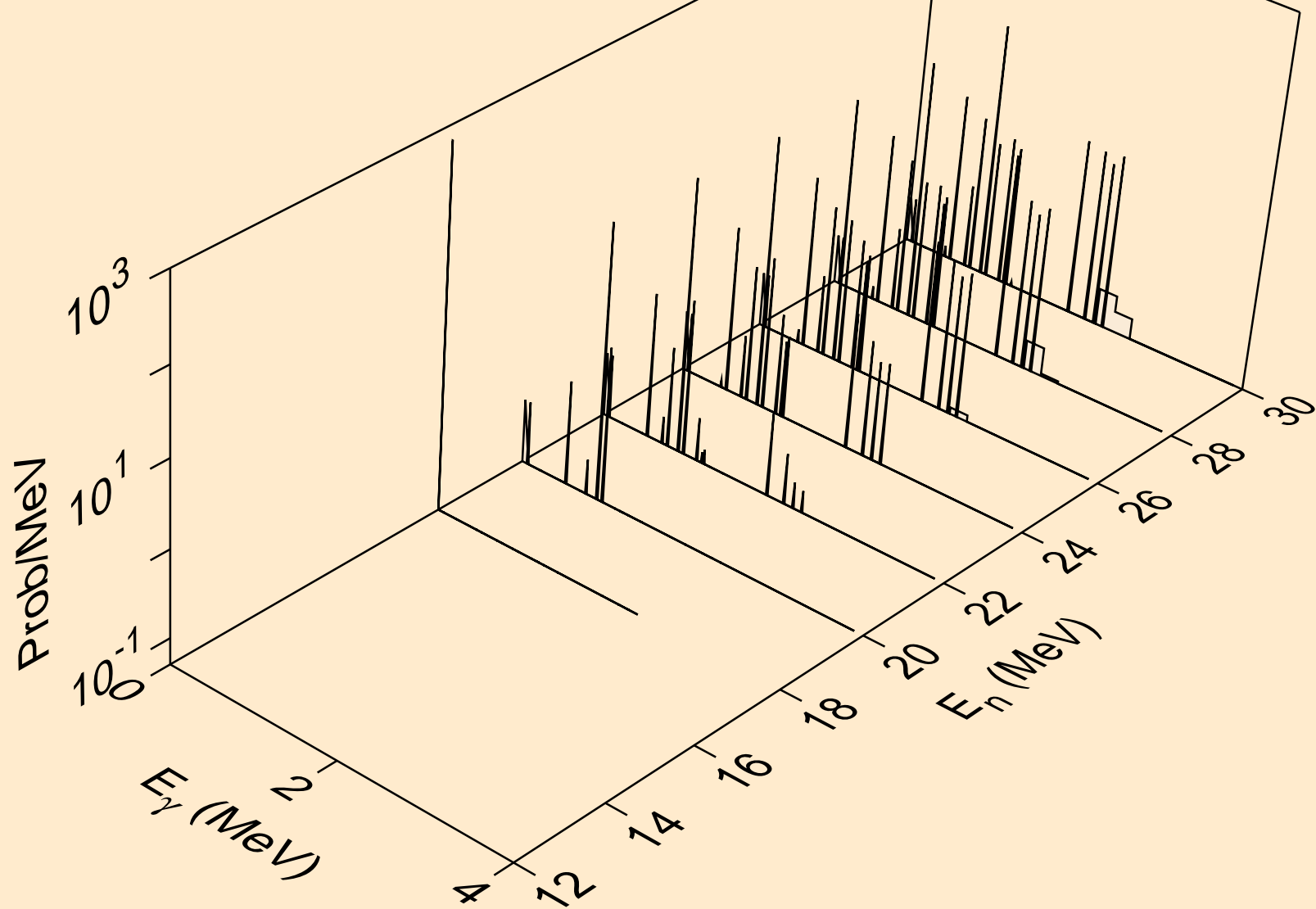
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



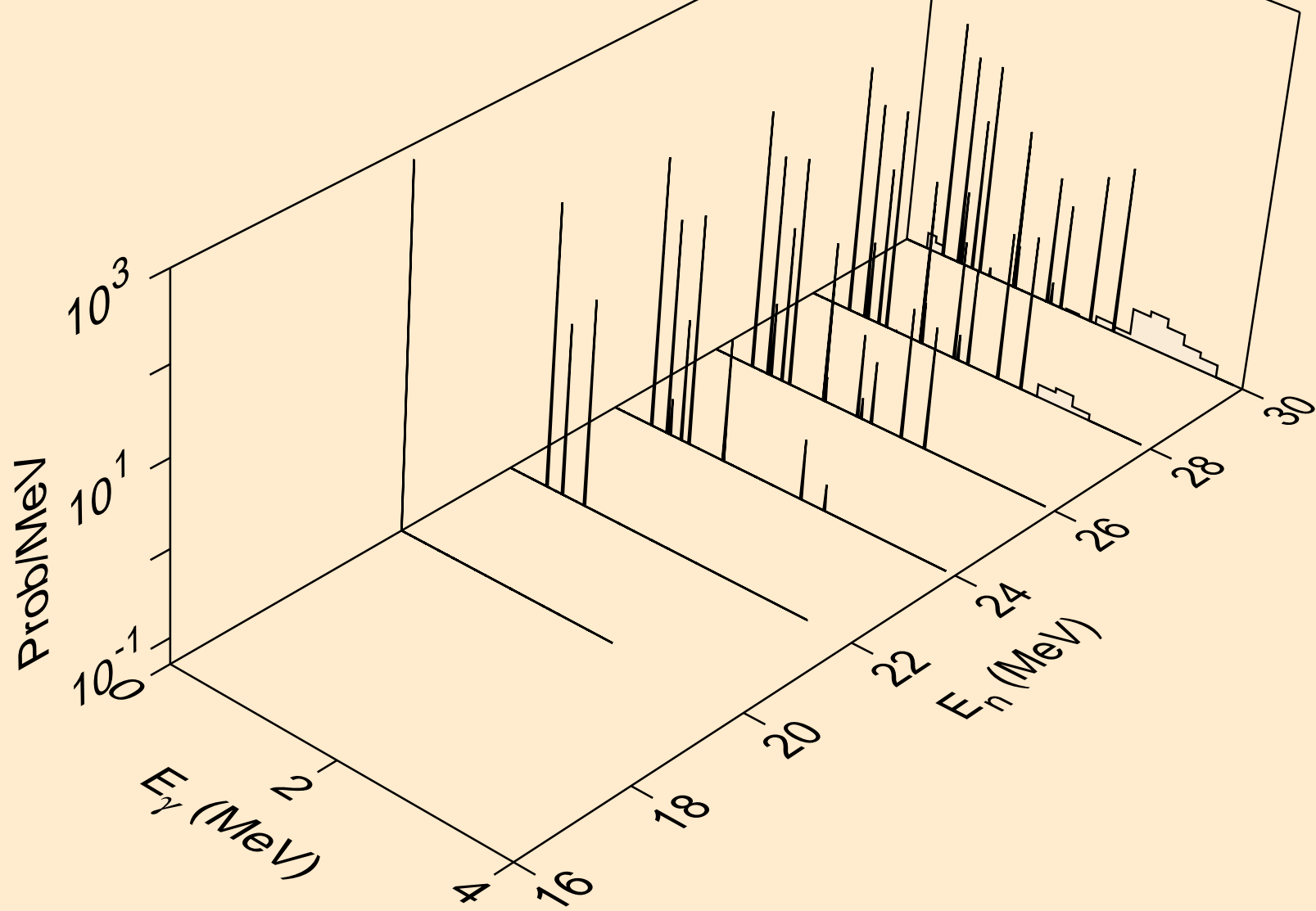
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for inelastic



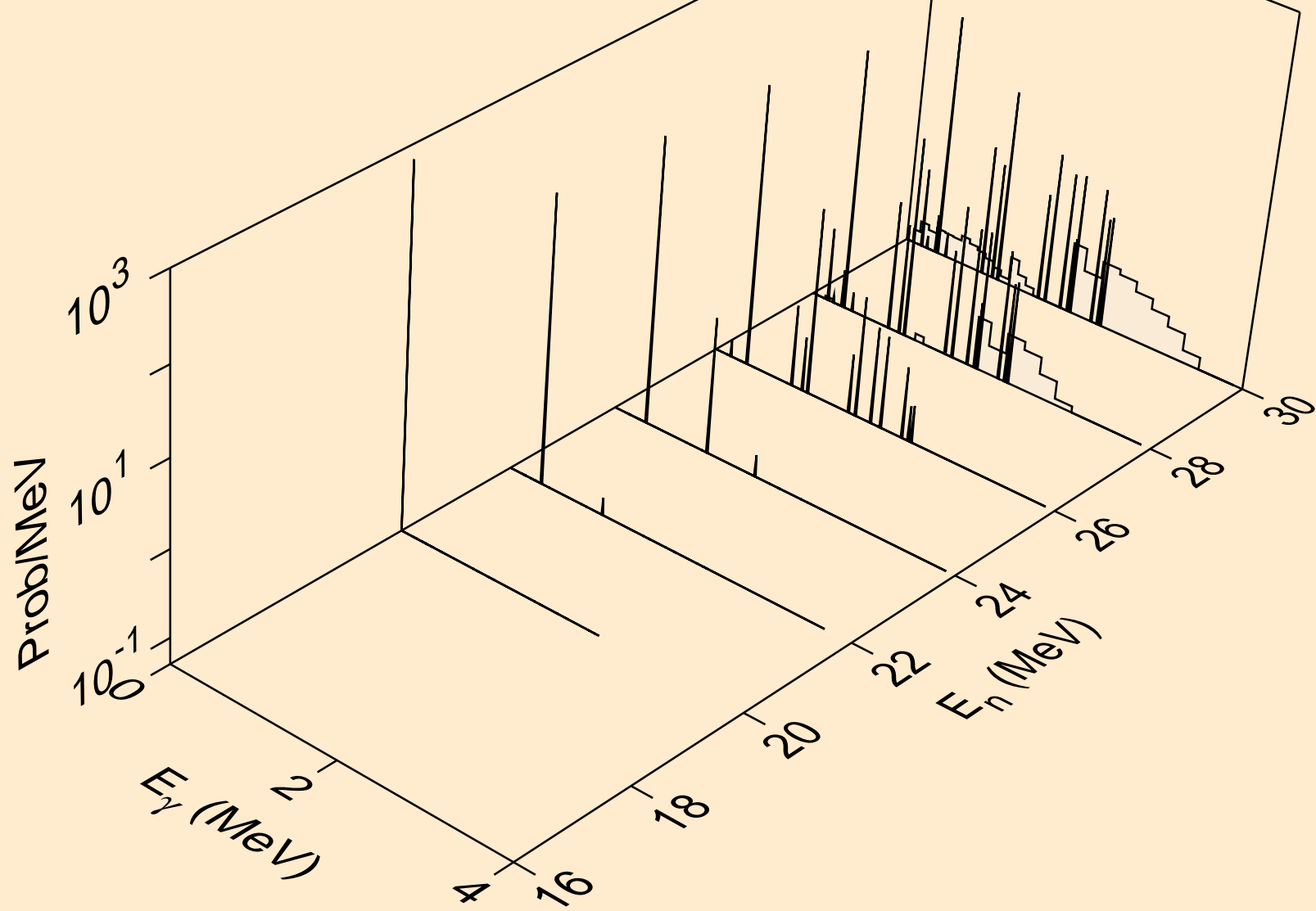
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



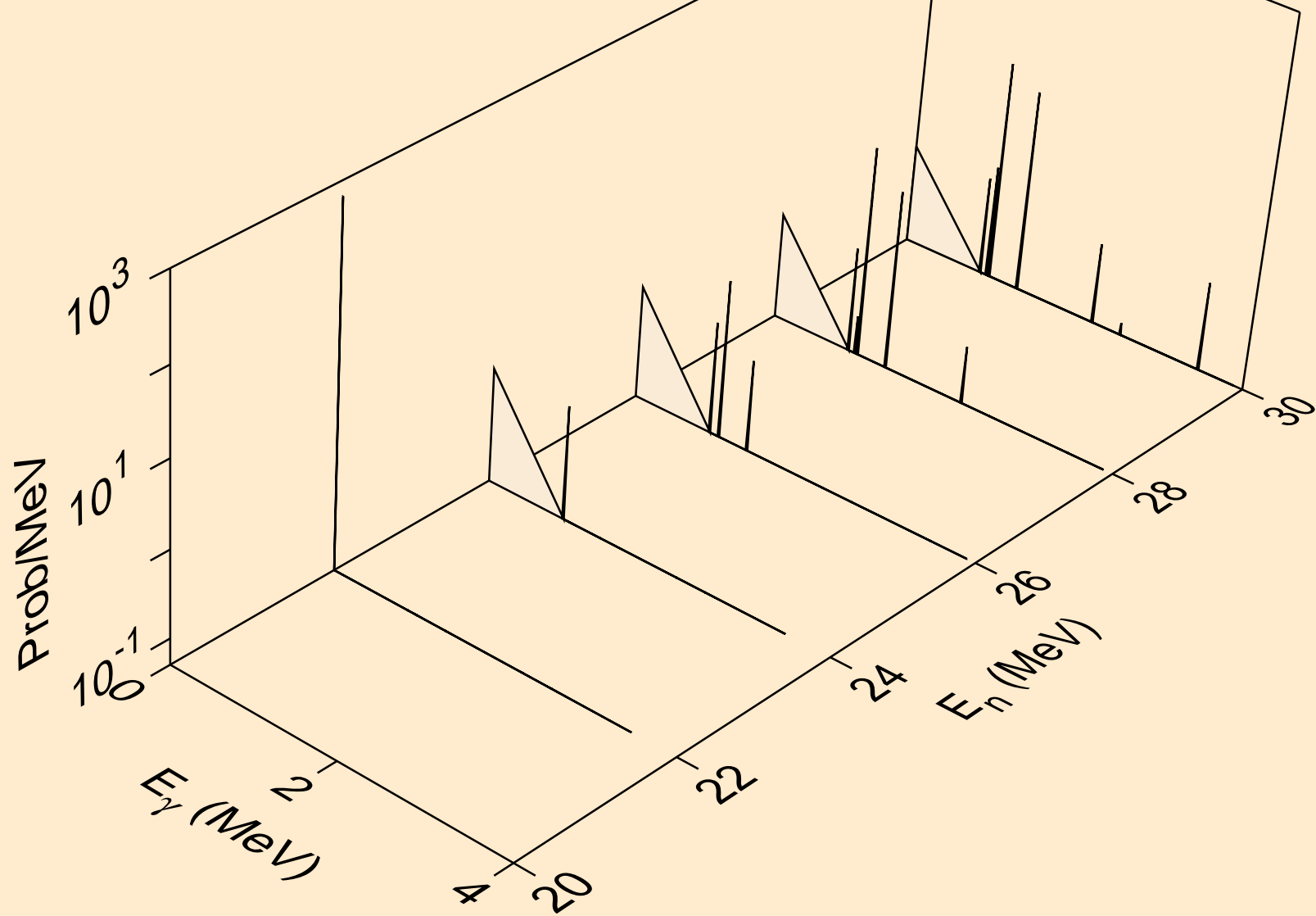
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pa)

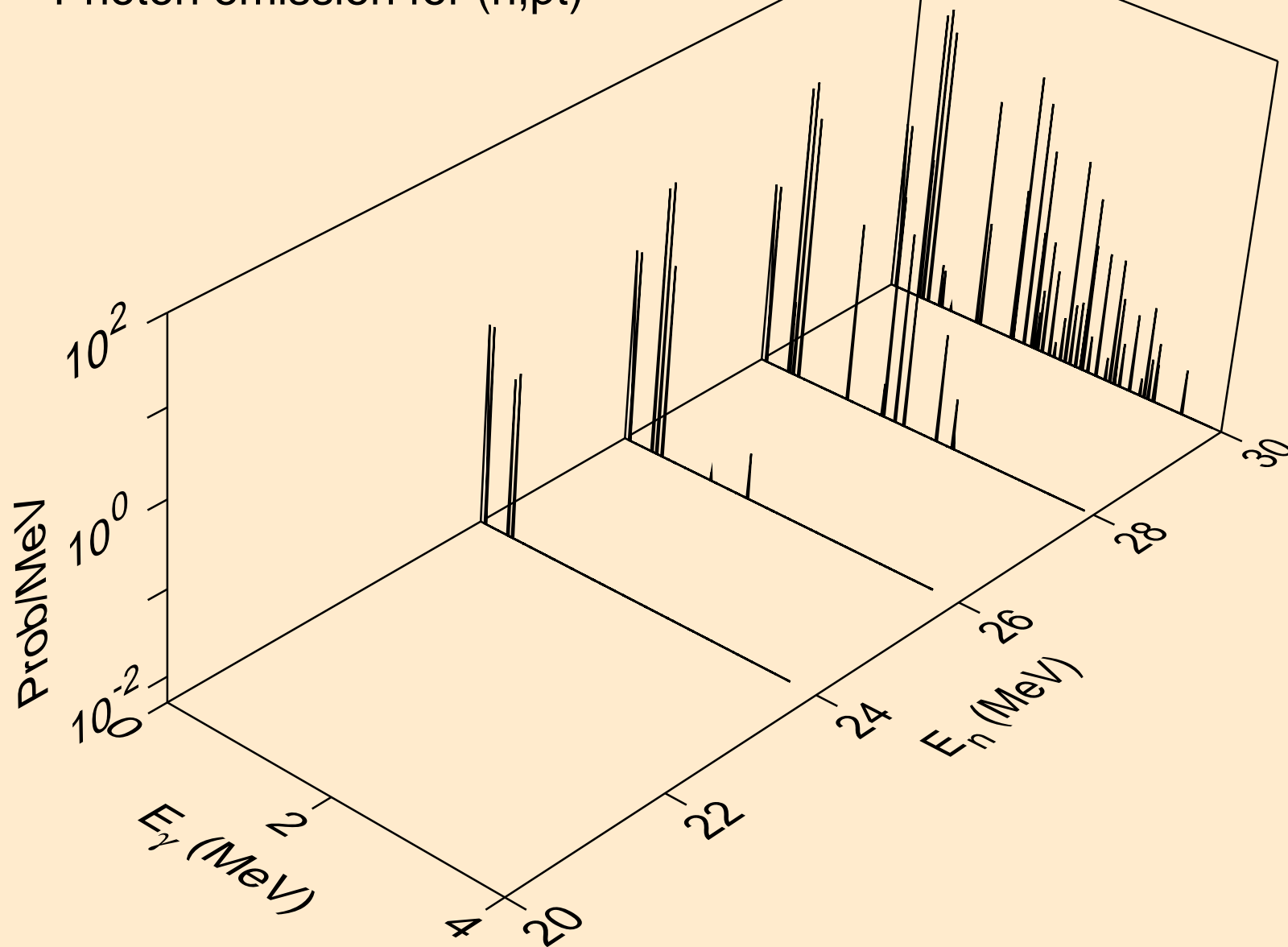


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)

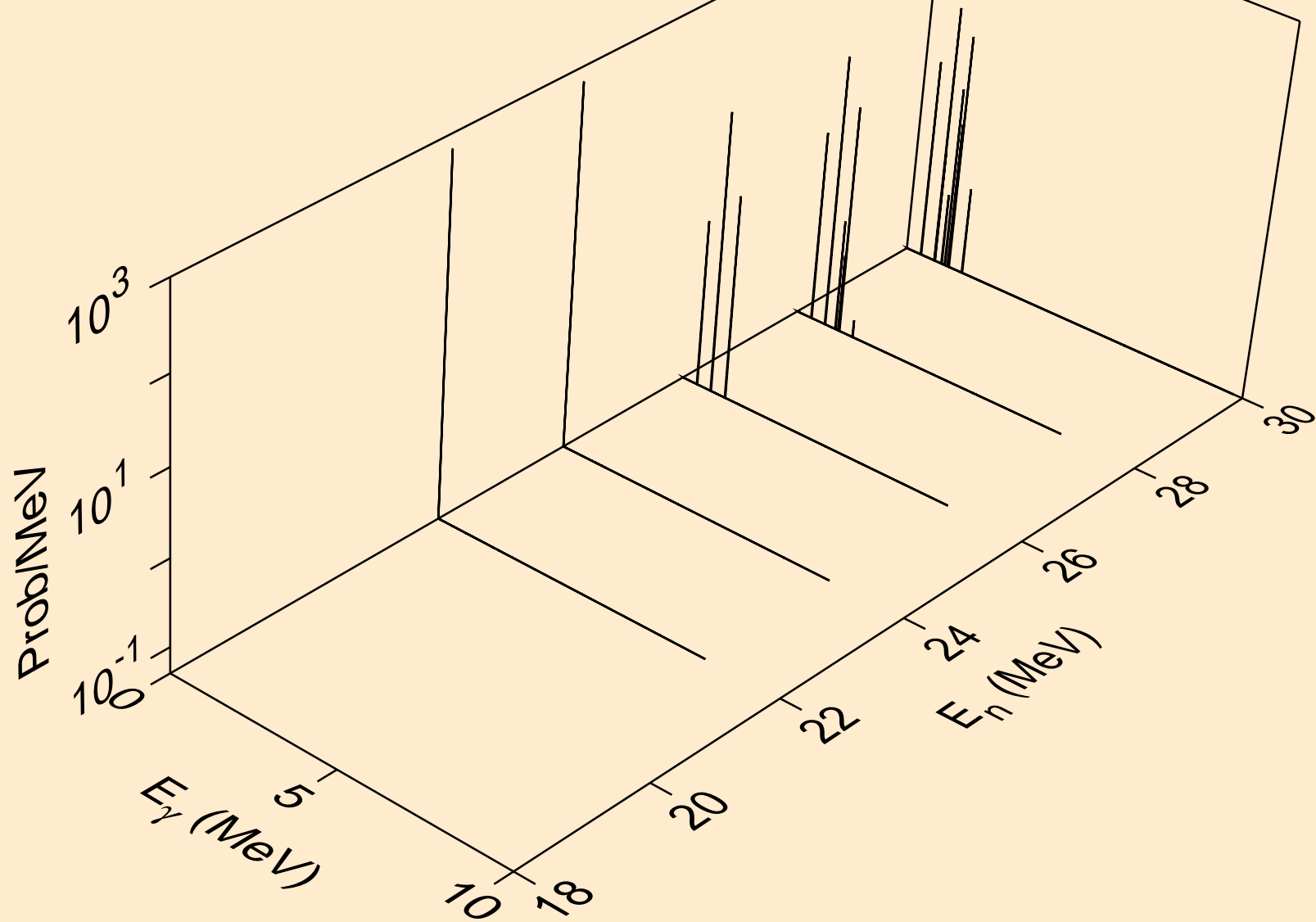


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

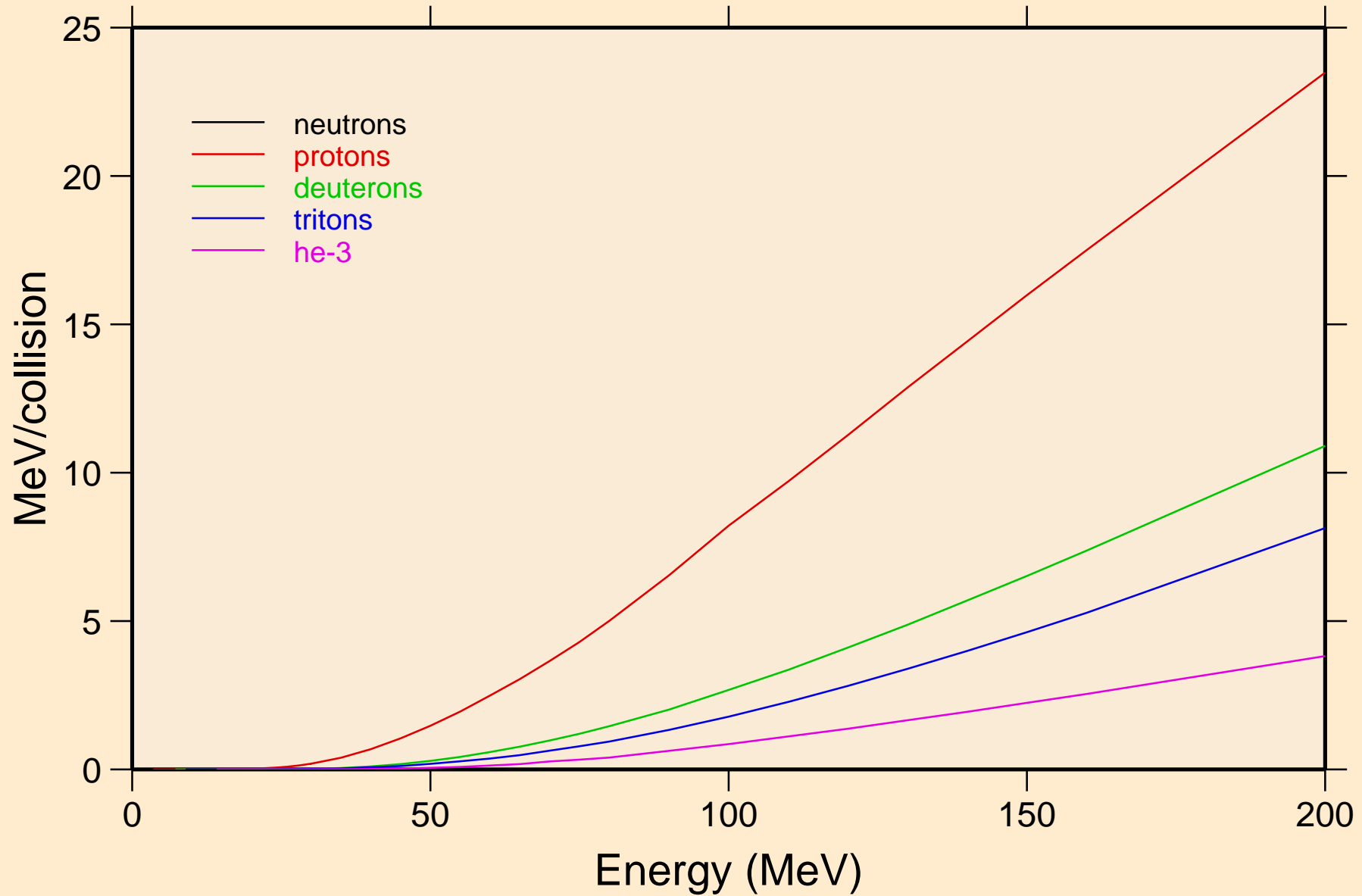
Photon emission for (n,pt)



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

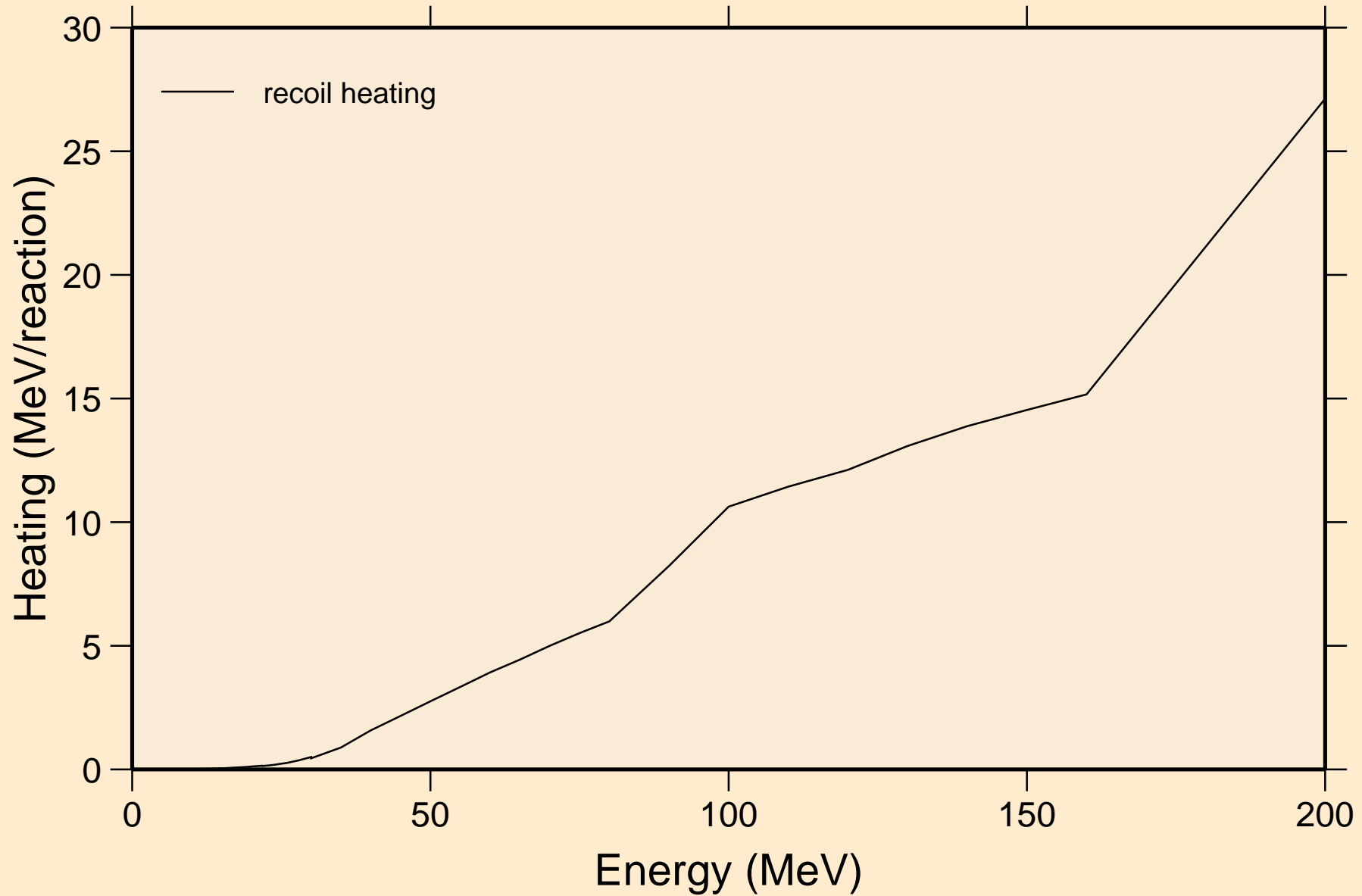


S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

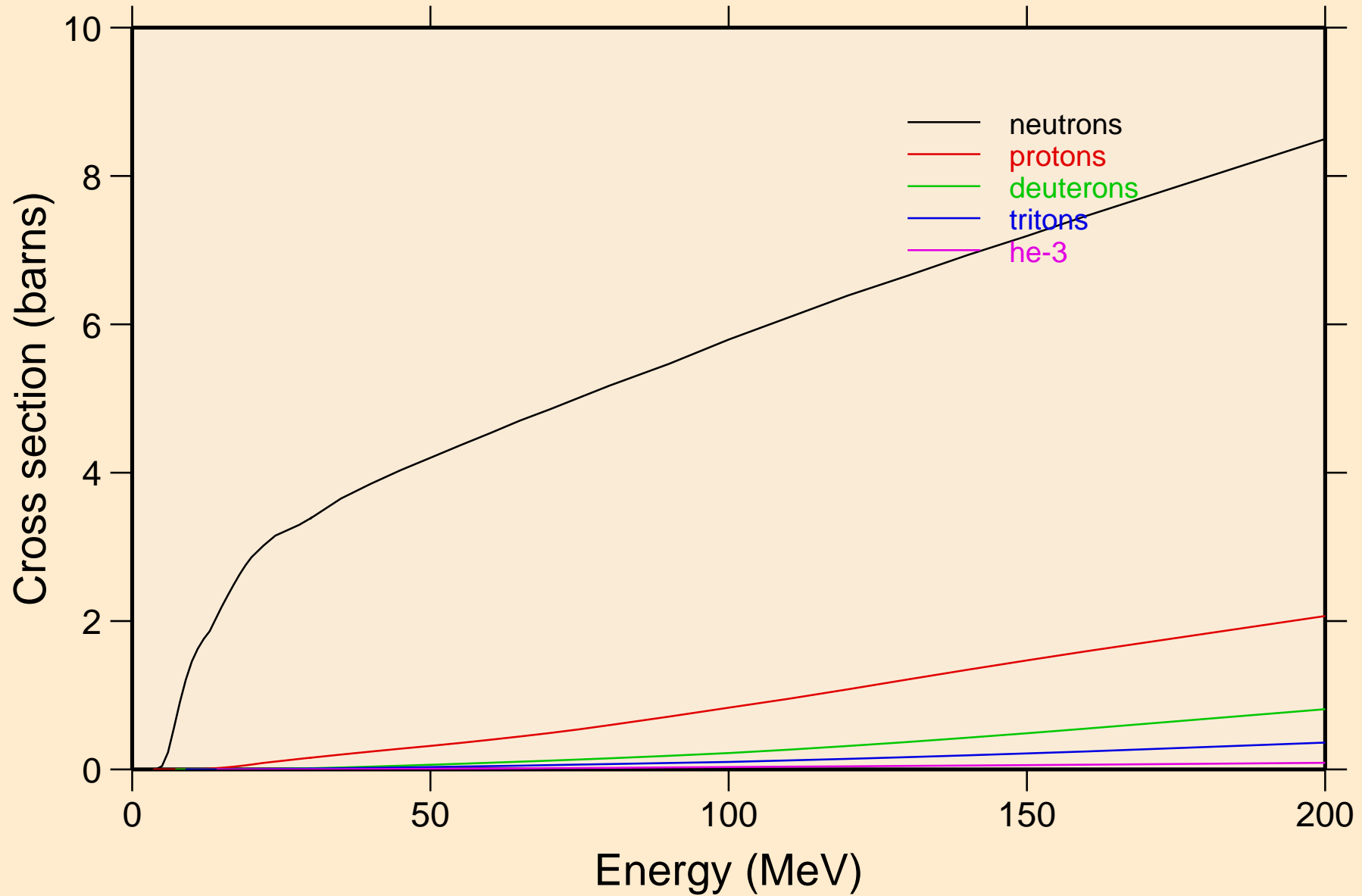


# S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K

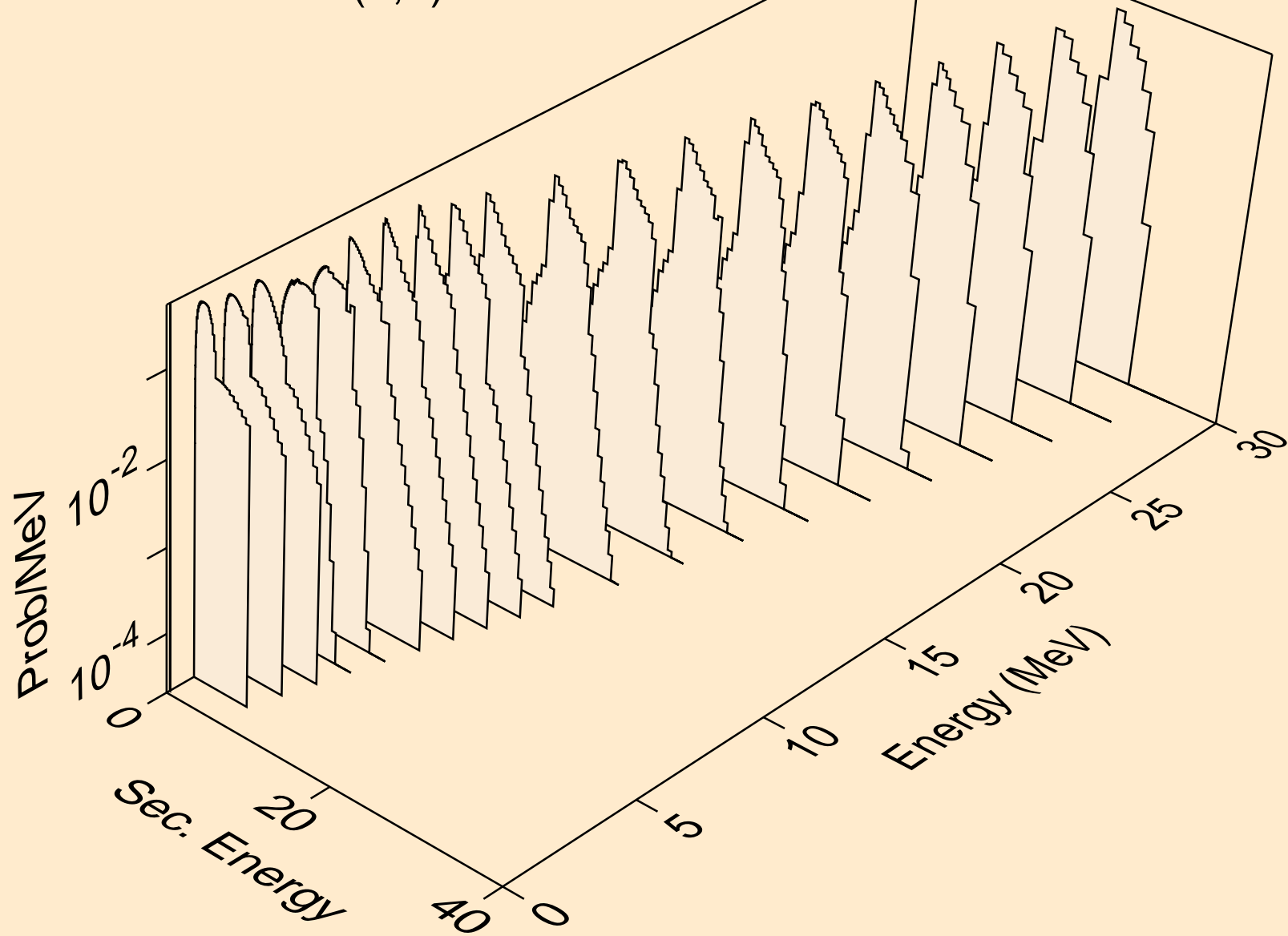
## Recoil Heating



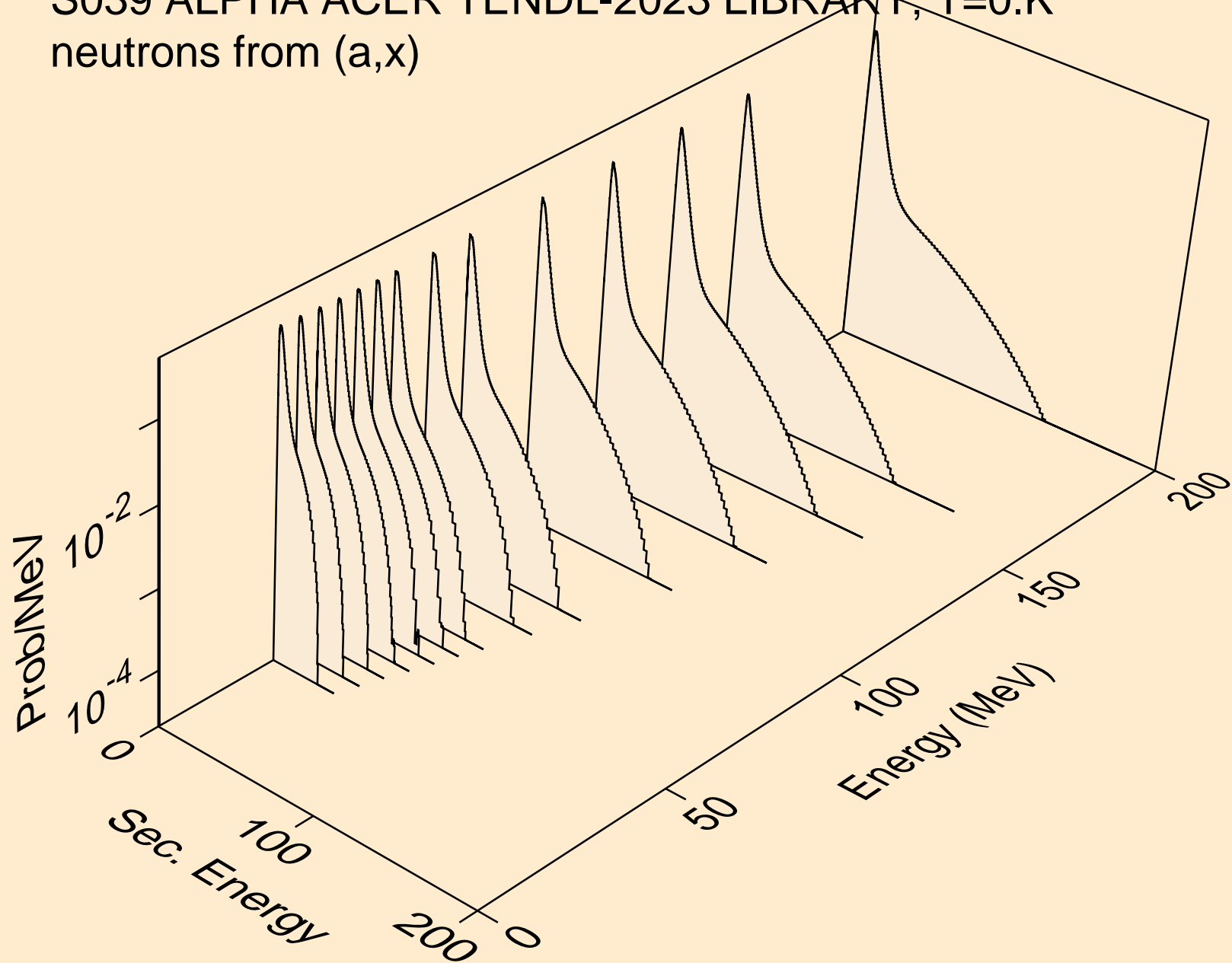
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
Particle production cross sections



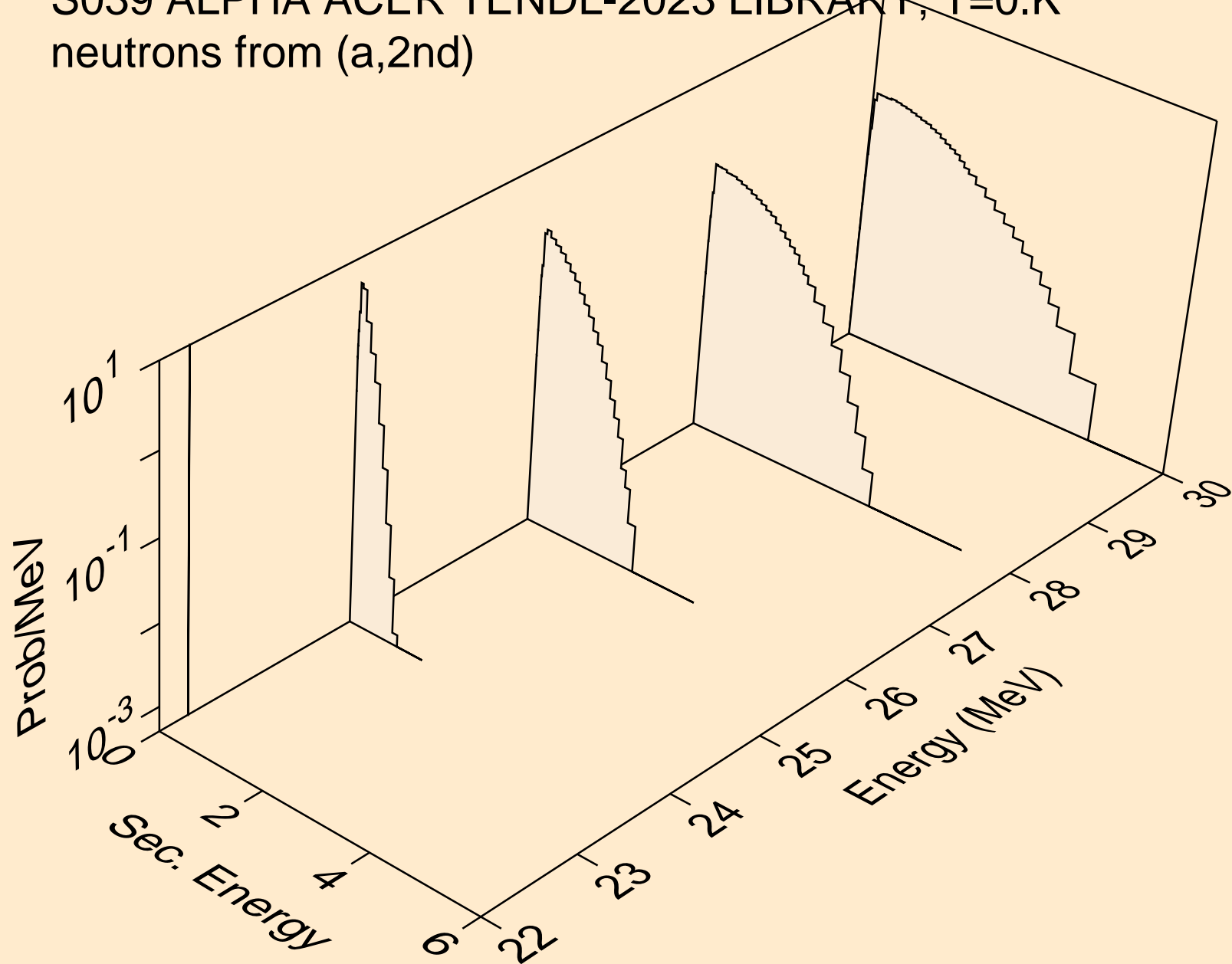
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n)



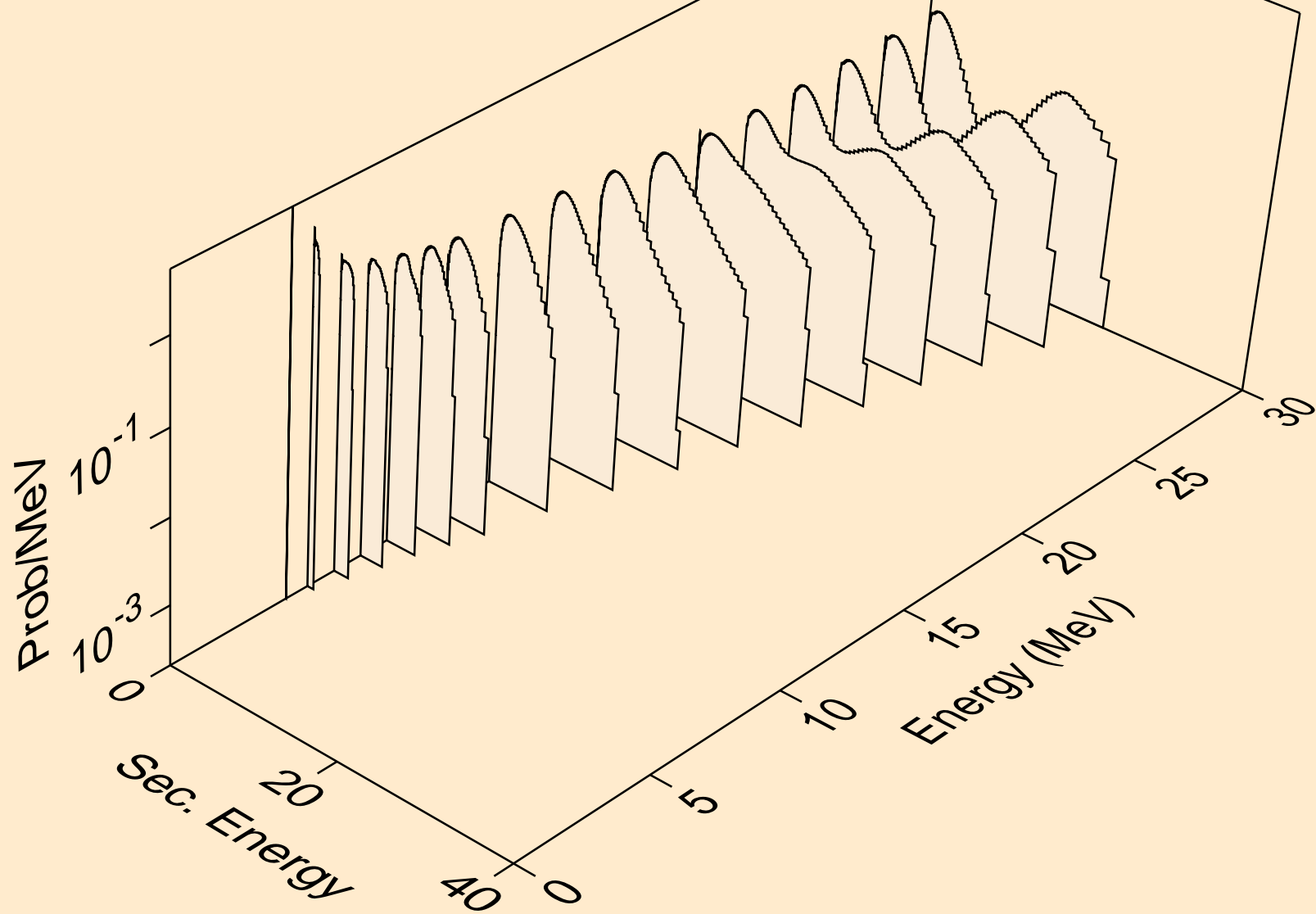
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,x)



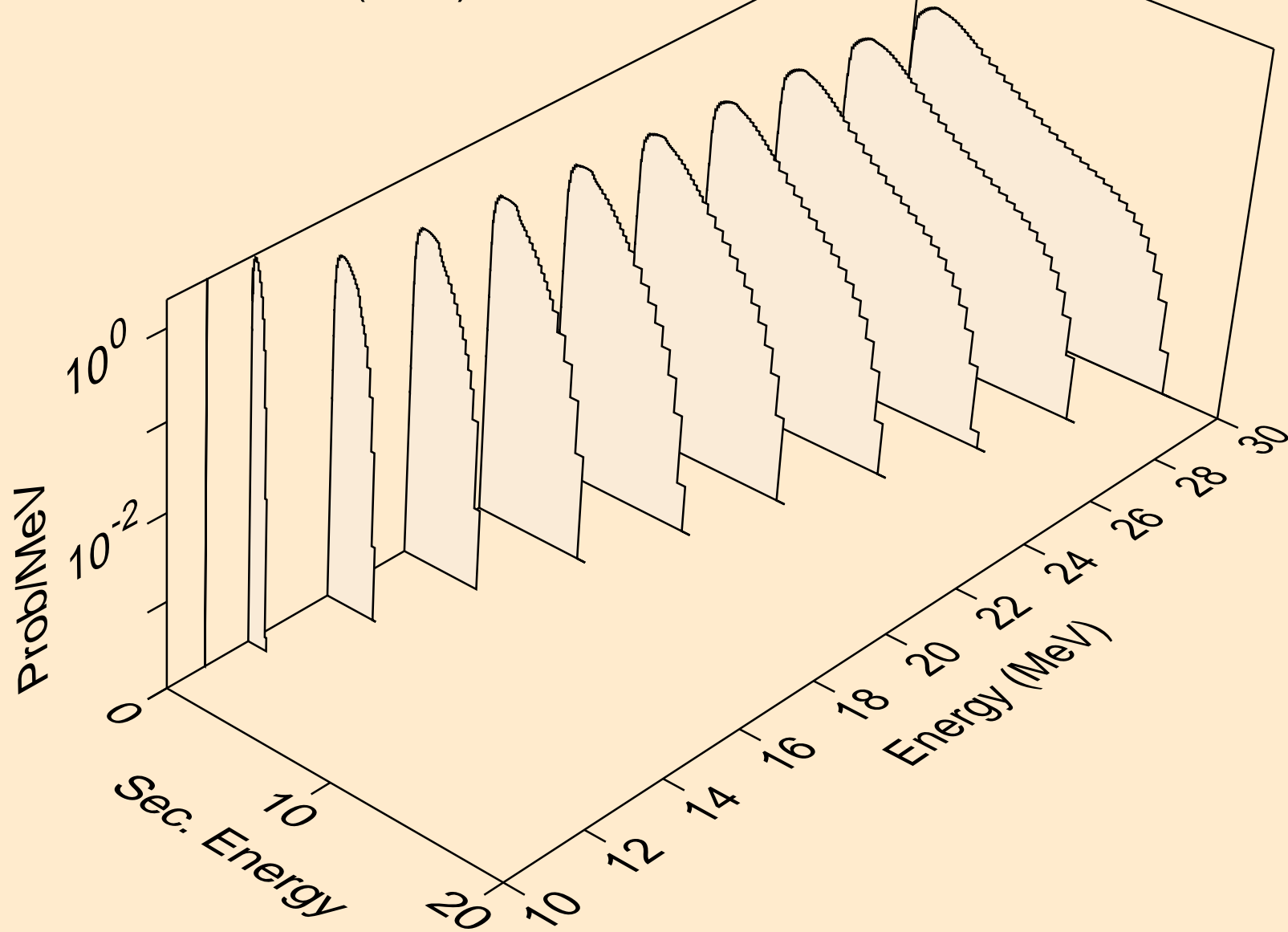
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2nd)



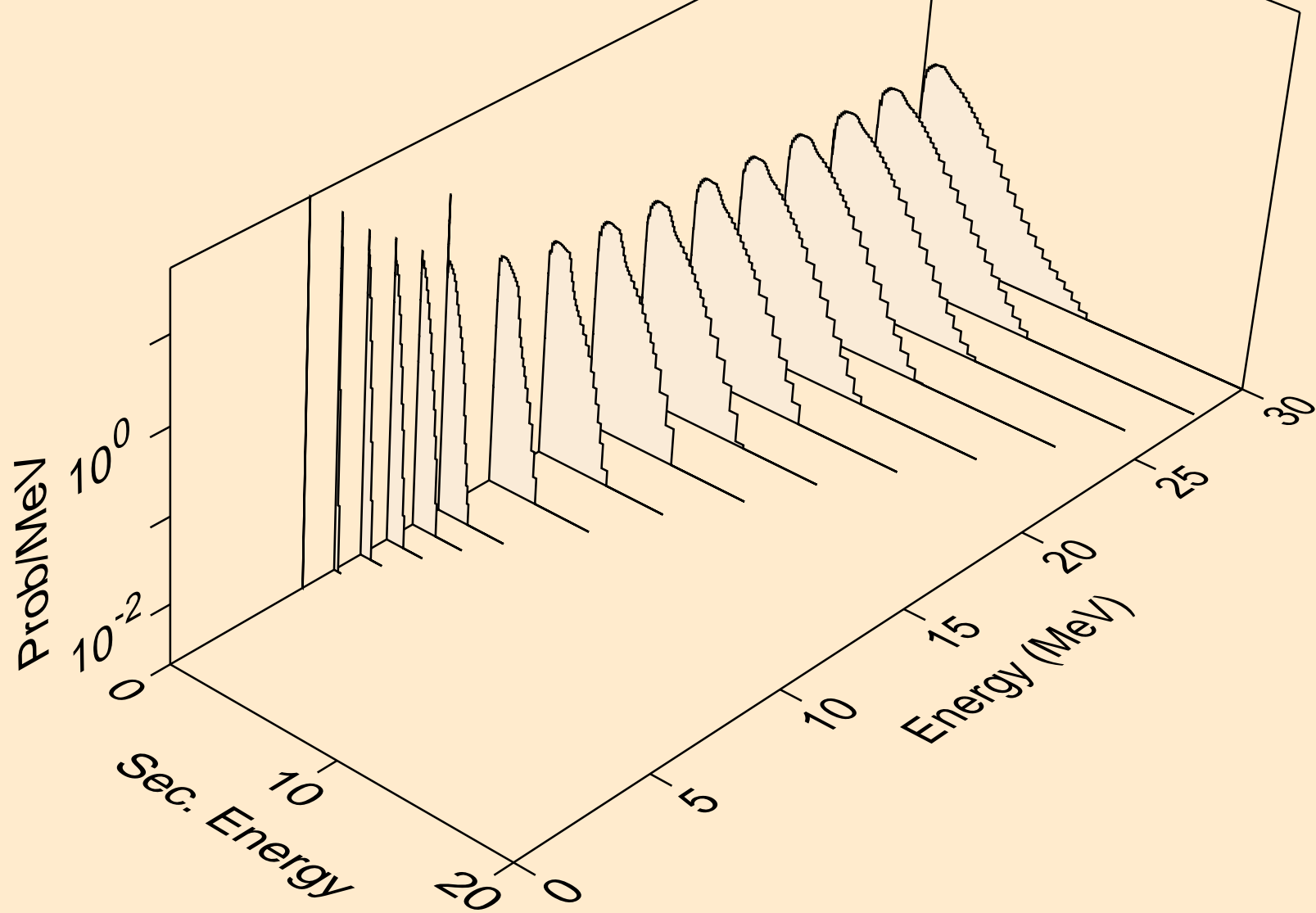
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2n)



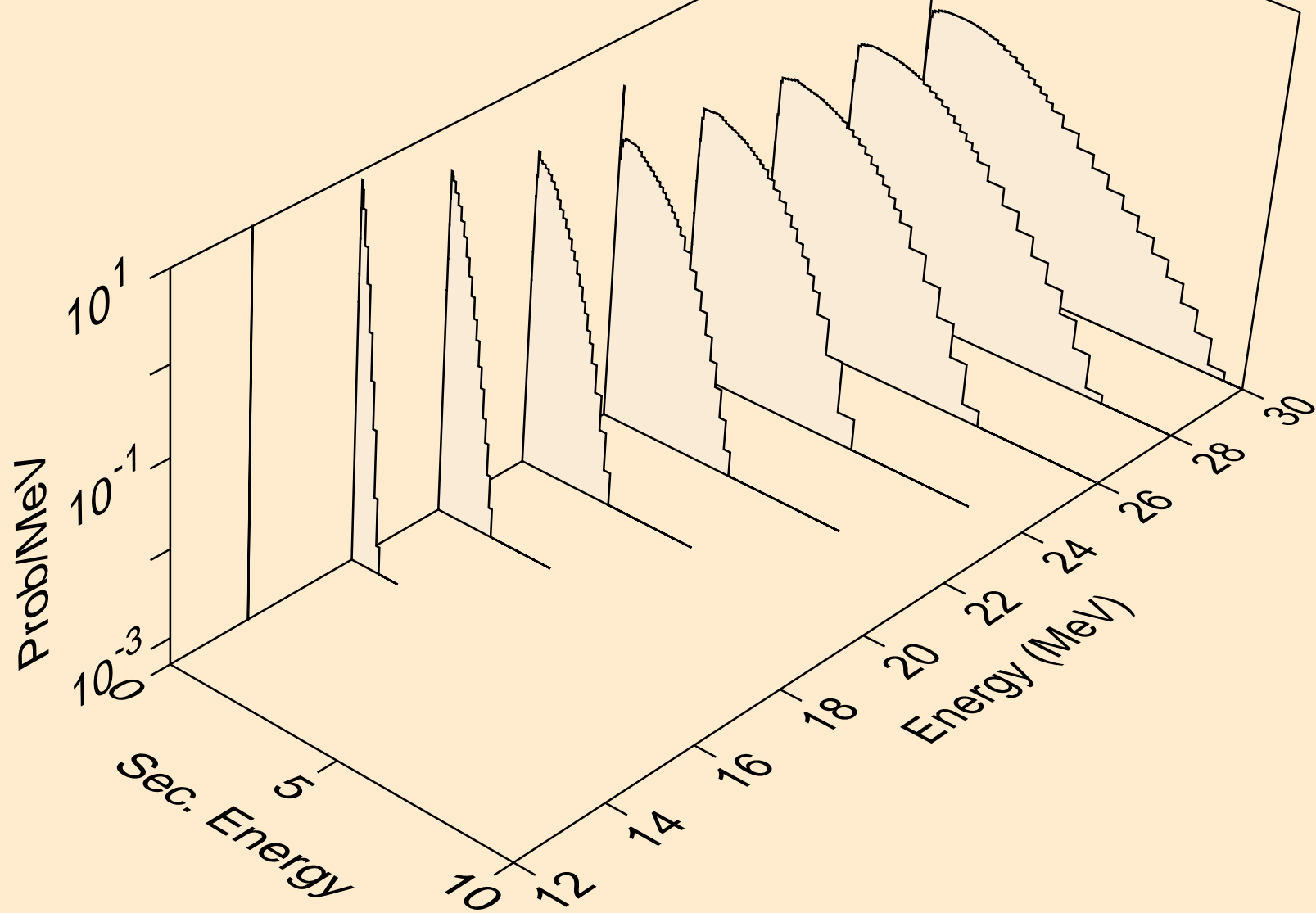
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,3n)



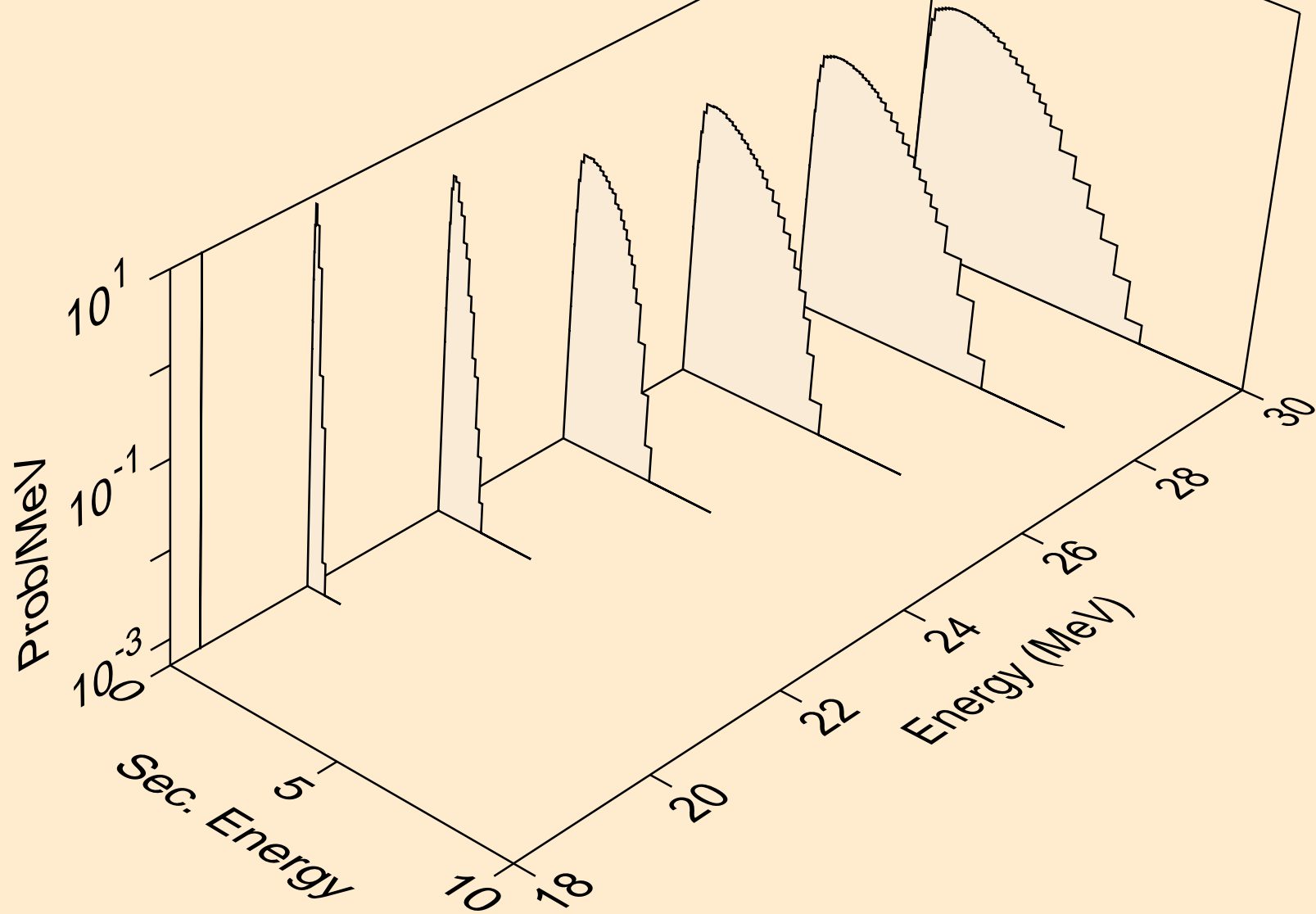
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)a



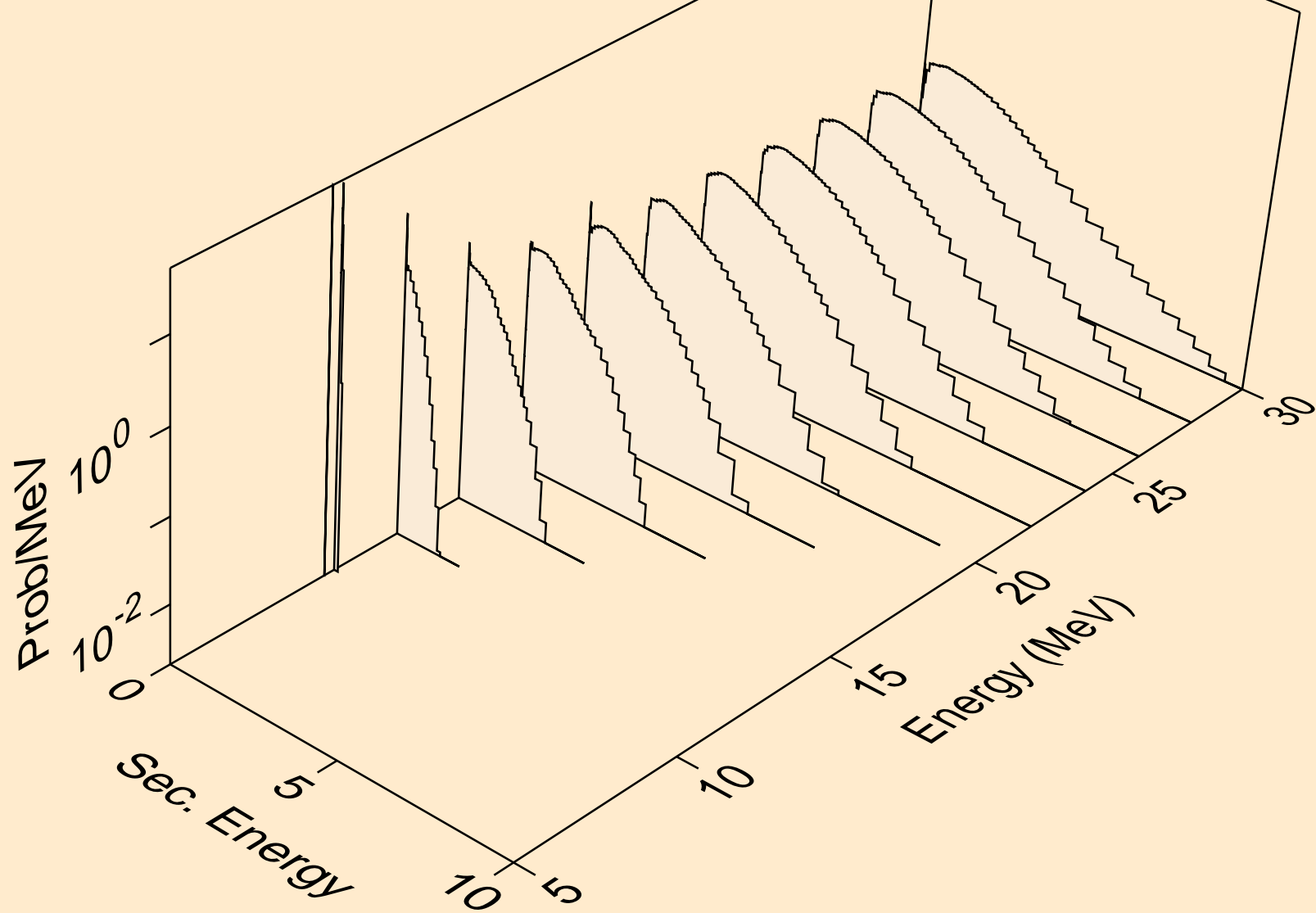
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2n)a



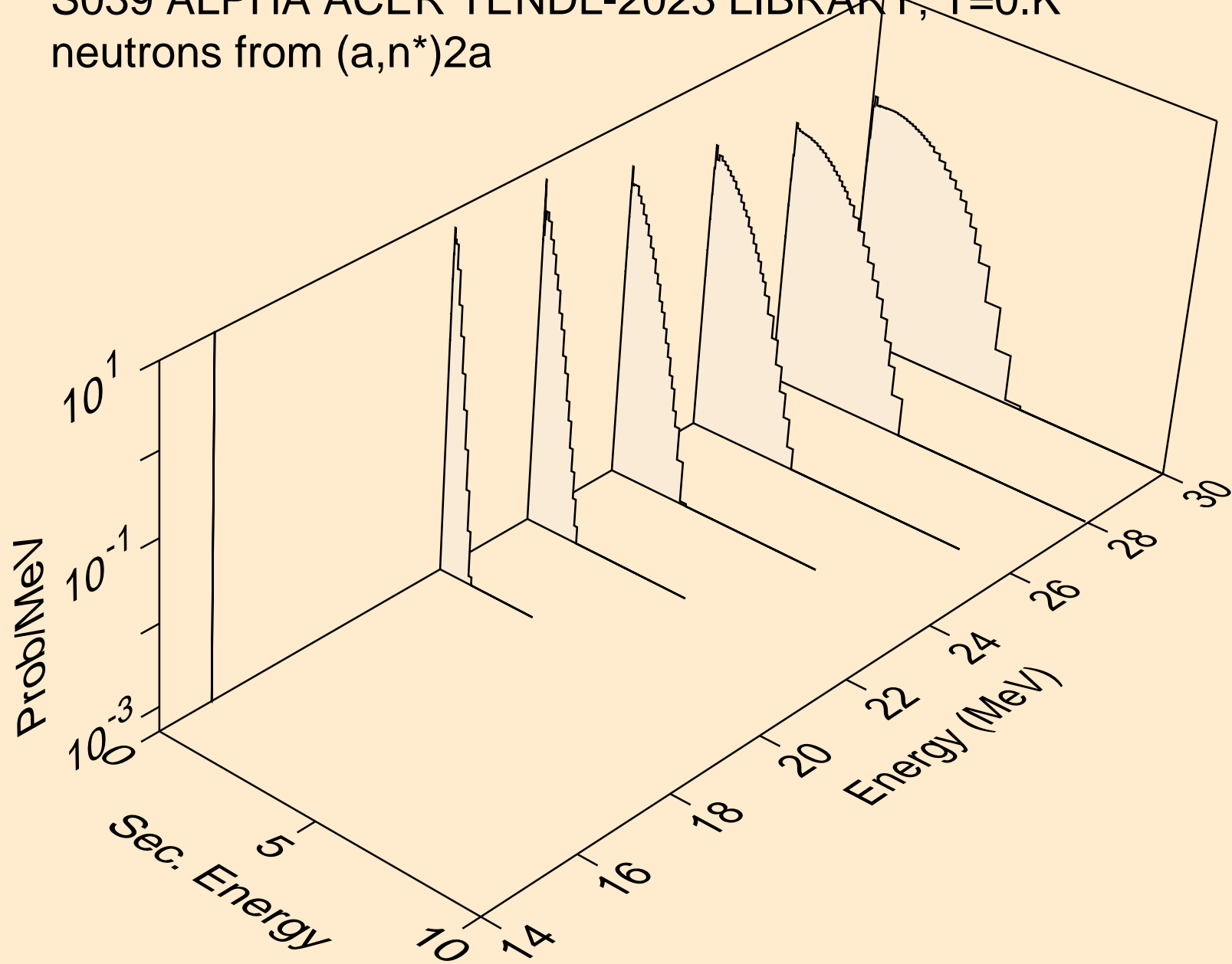
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,3n)a



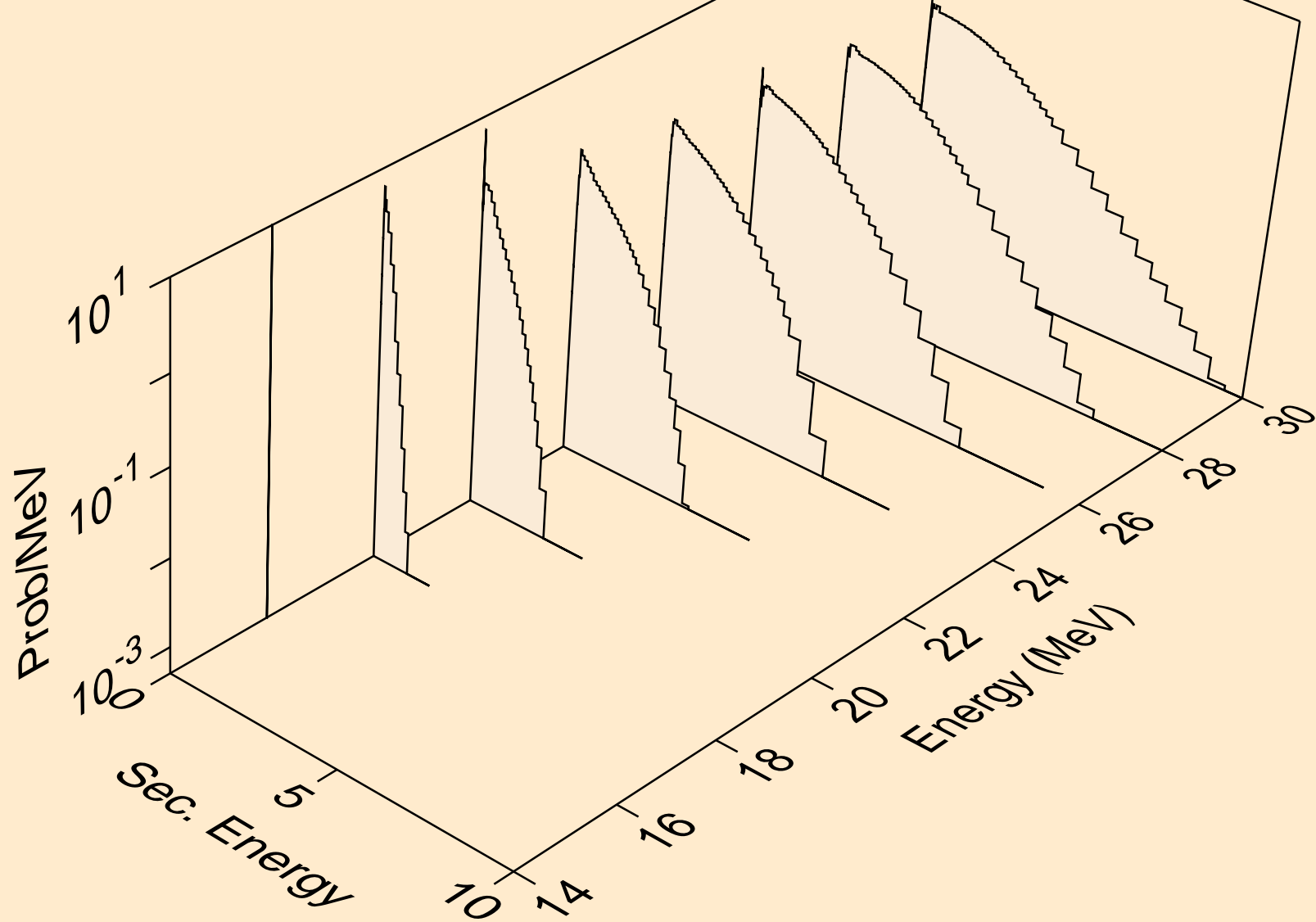
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)p



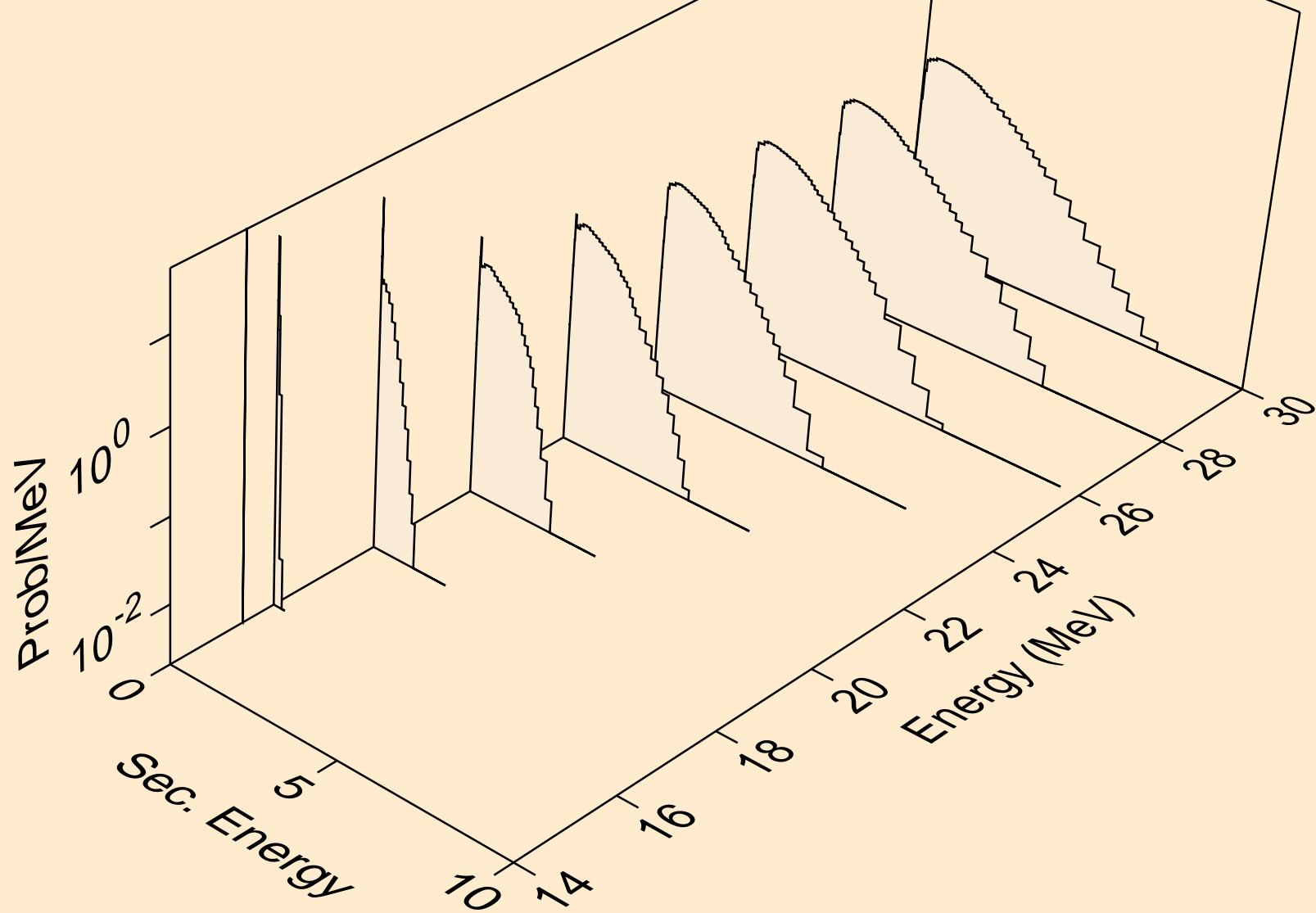
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)2a



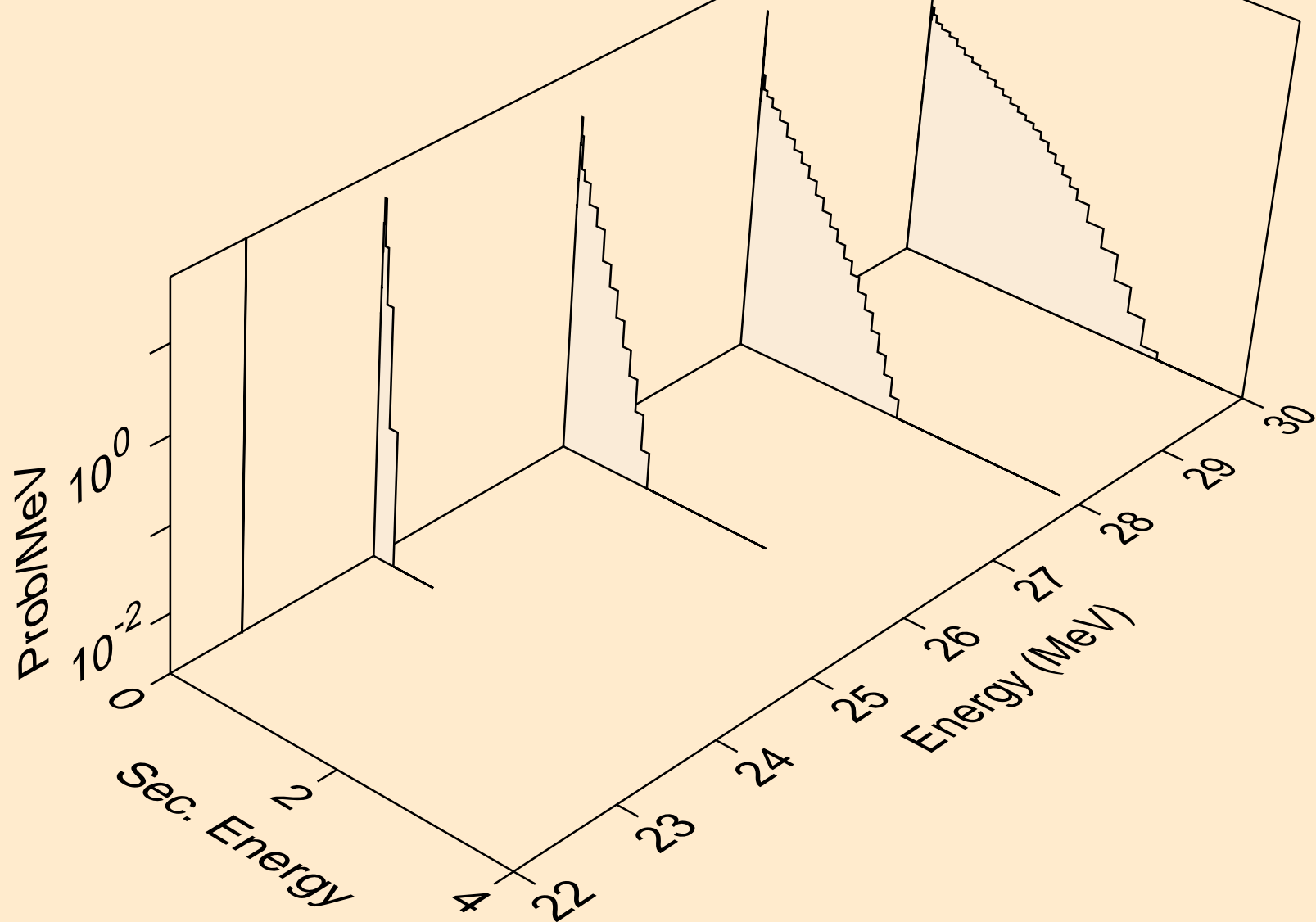
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)d



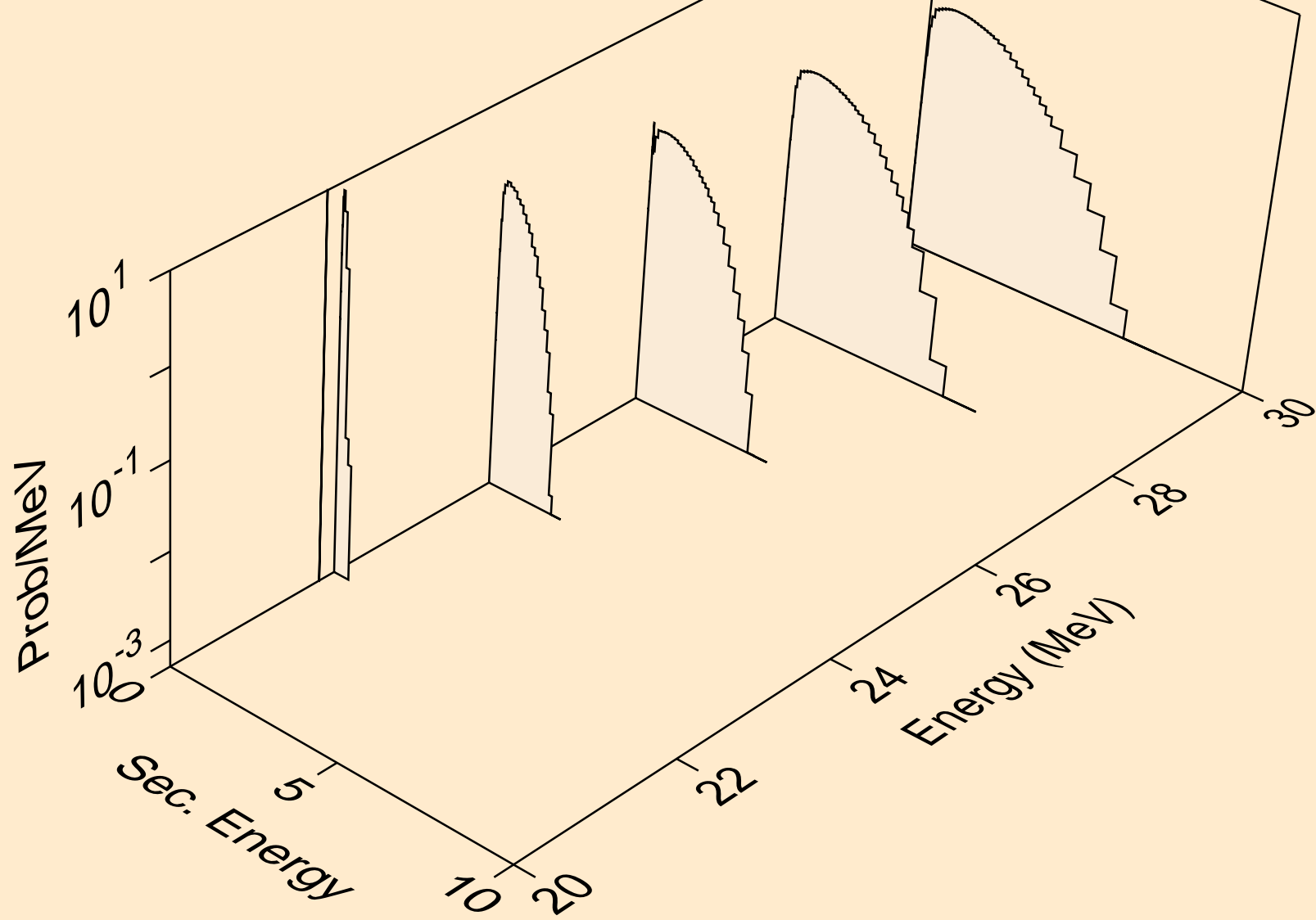
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)t



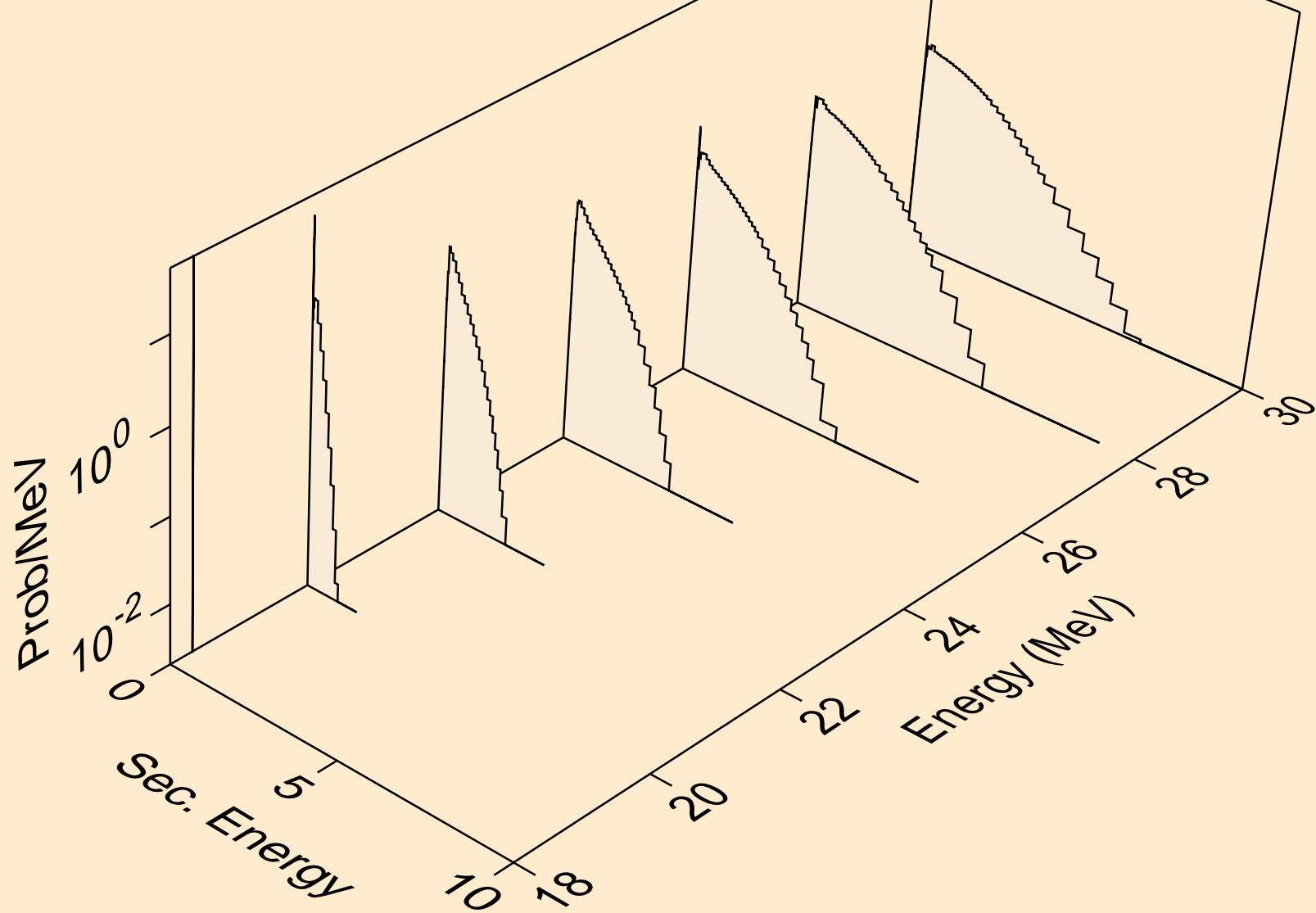
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n\*)he3



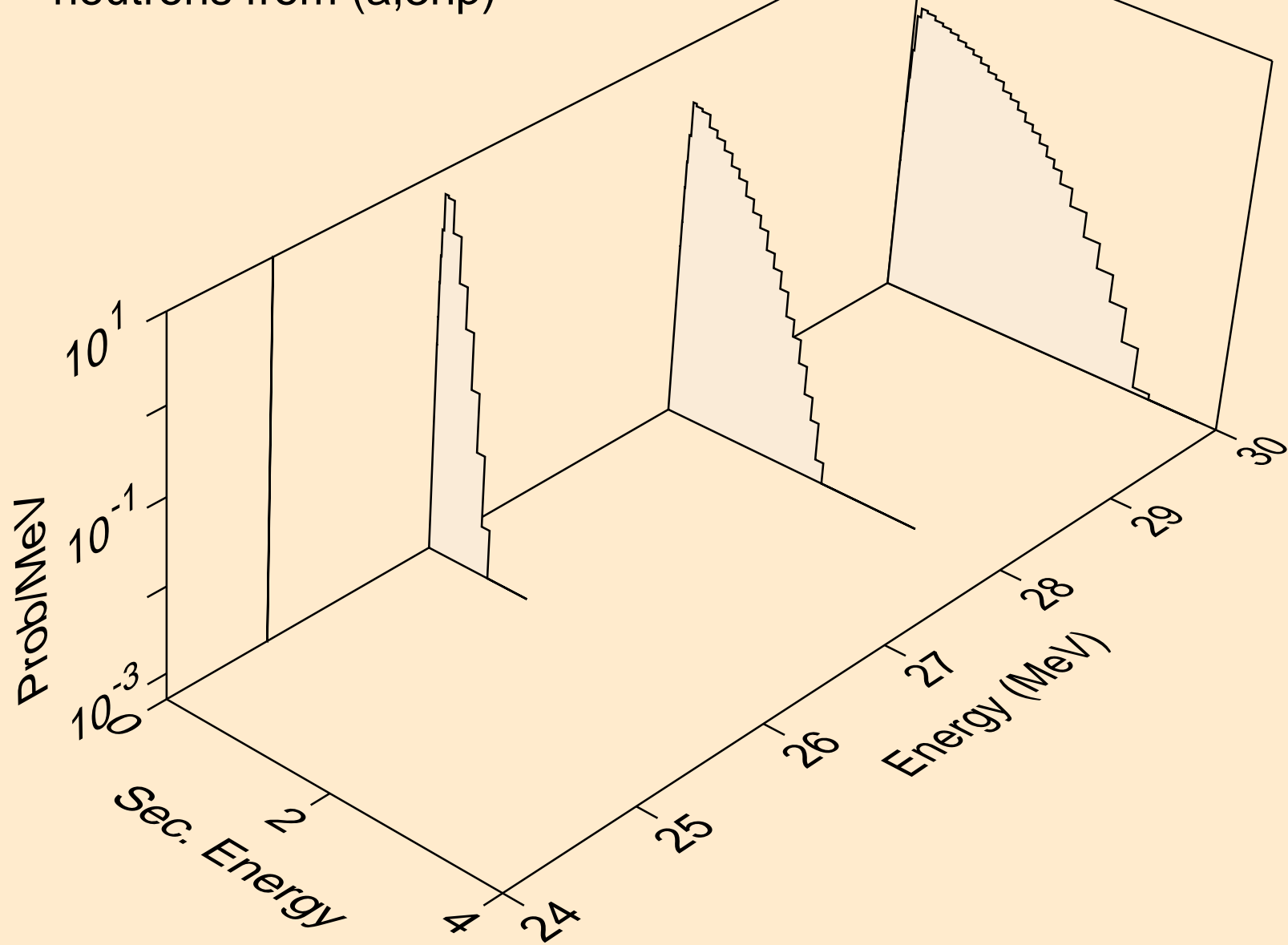
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,4n)



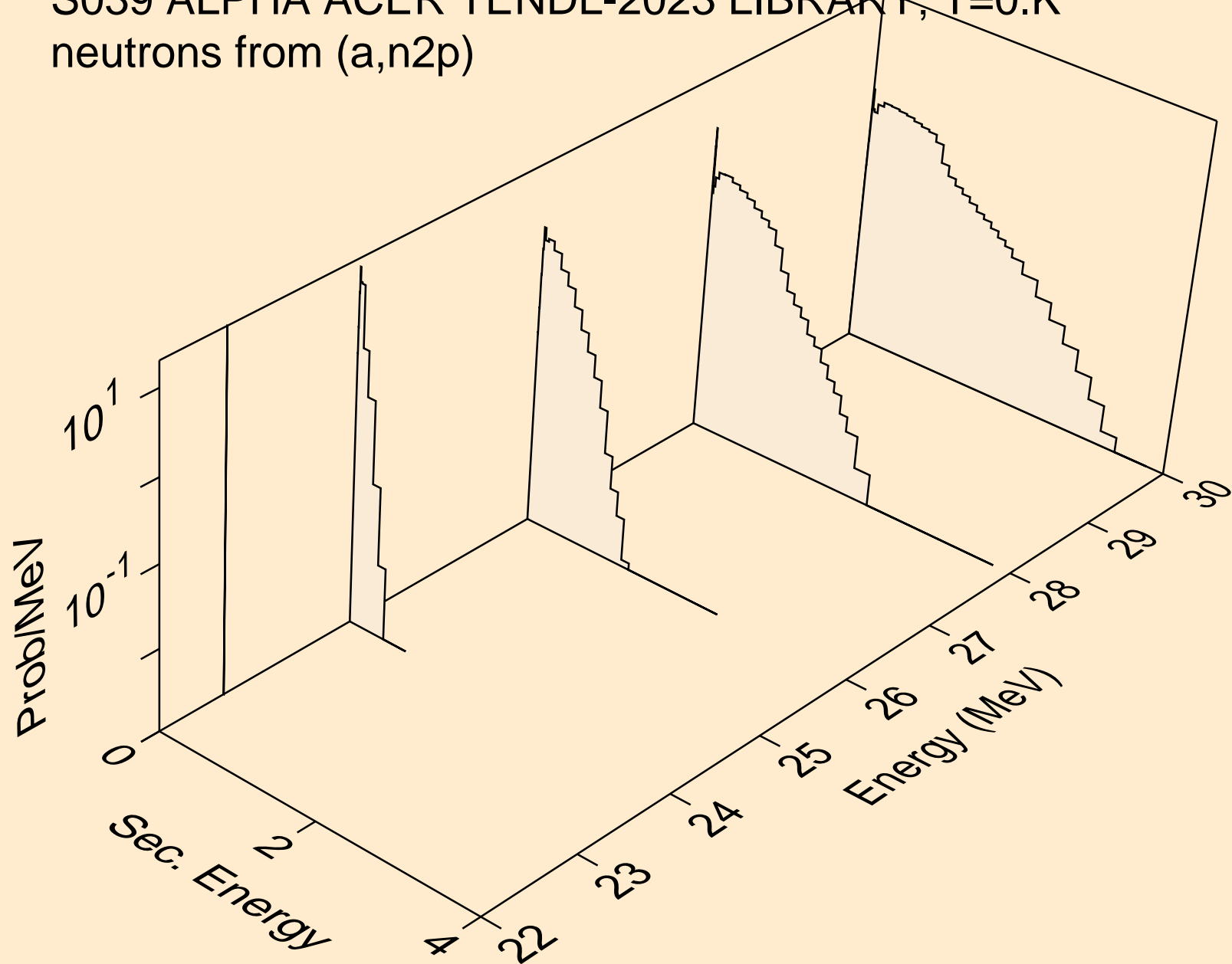
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,2np)



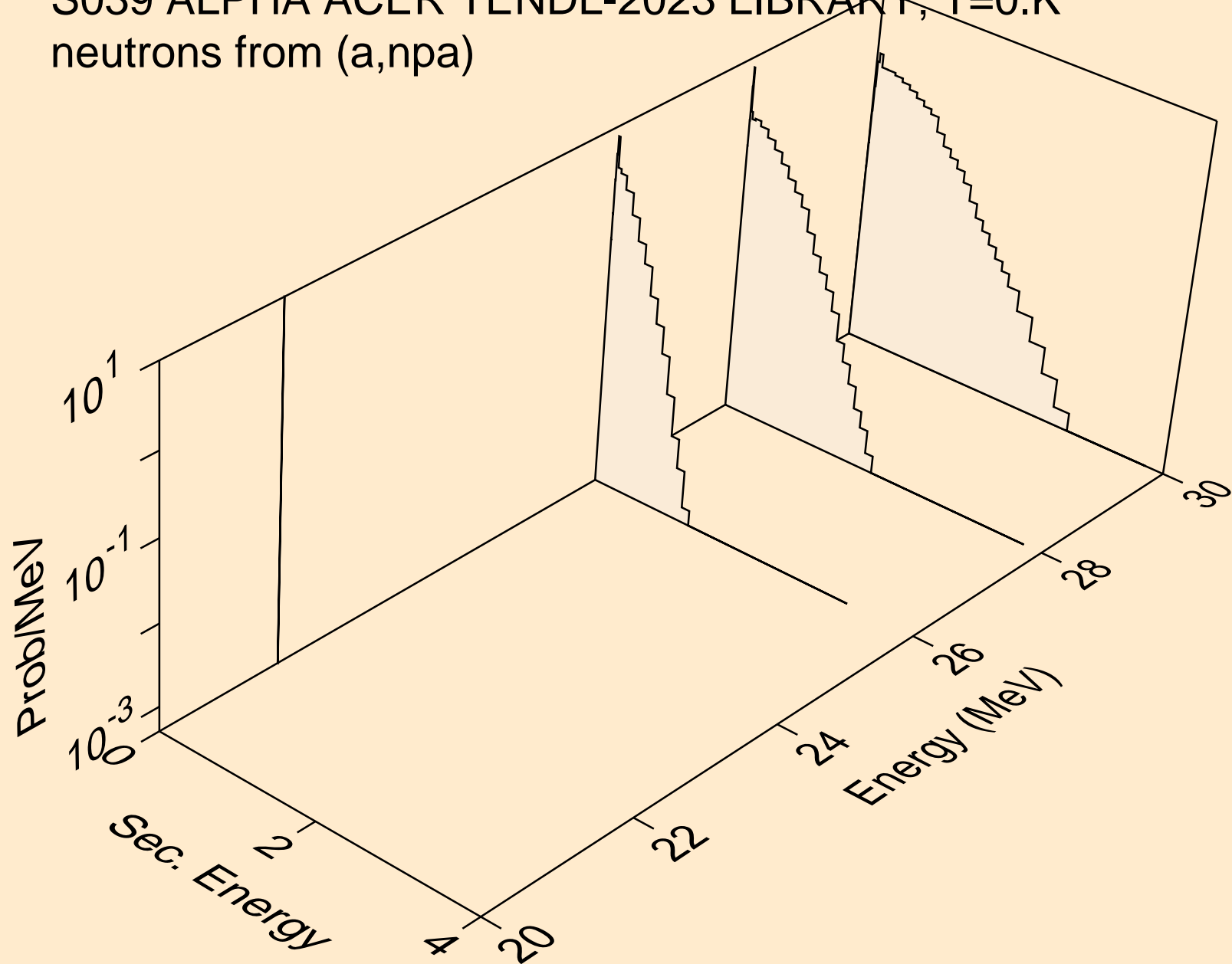
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,3np)



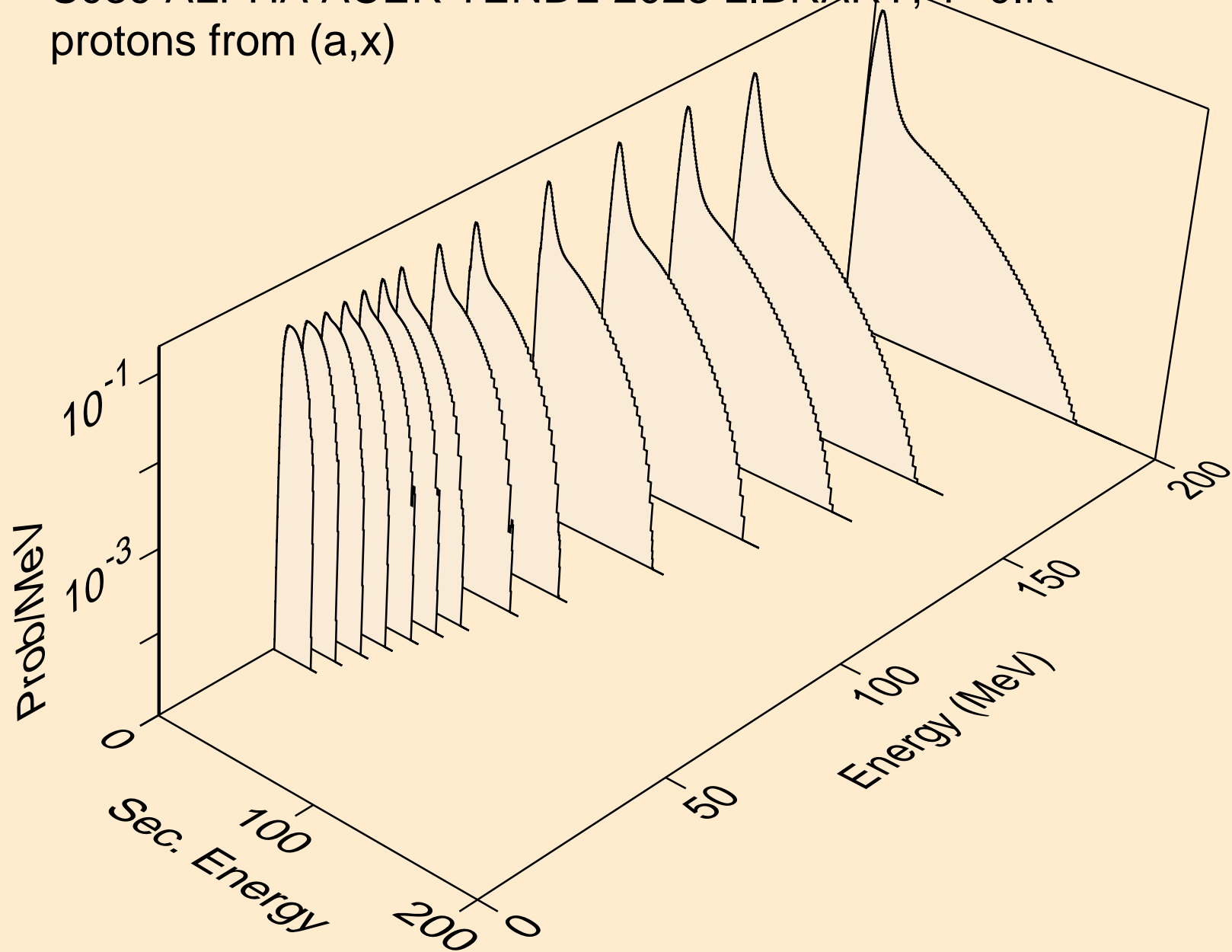
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,n2p)



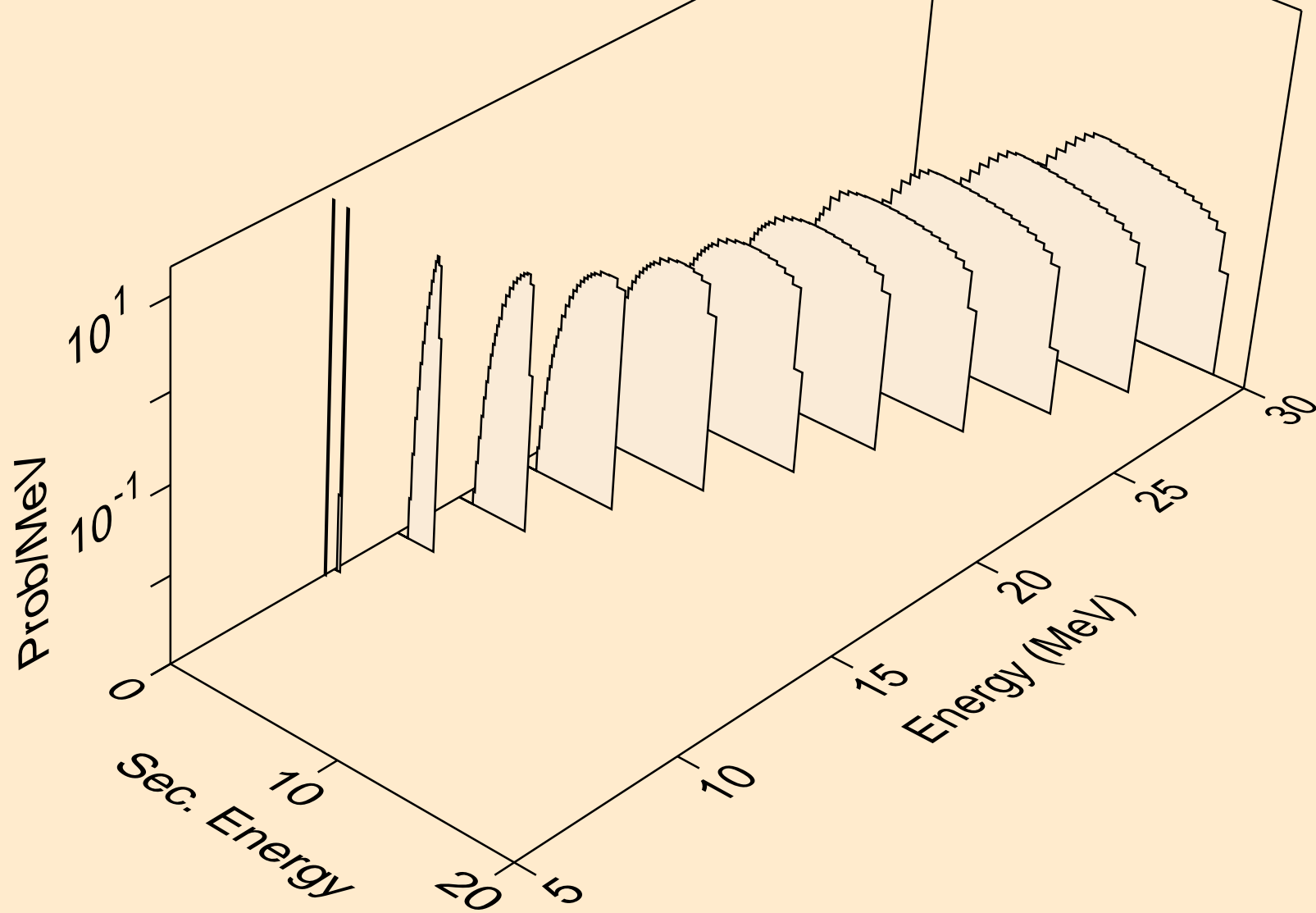
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
neutrons from (a,npa)



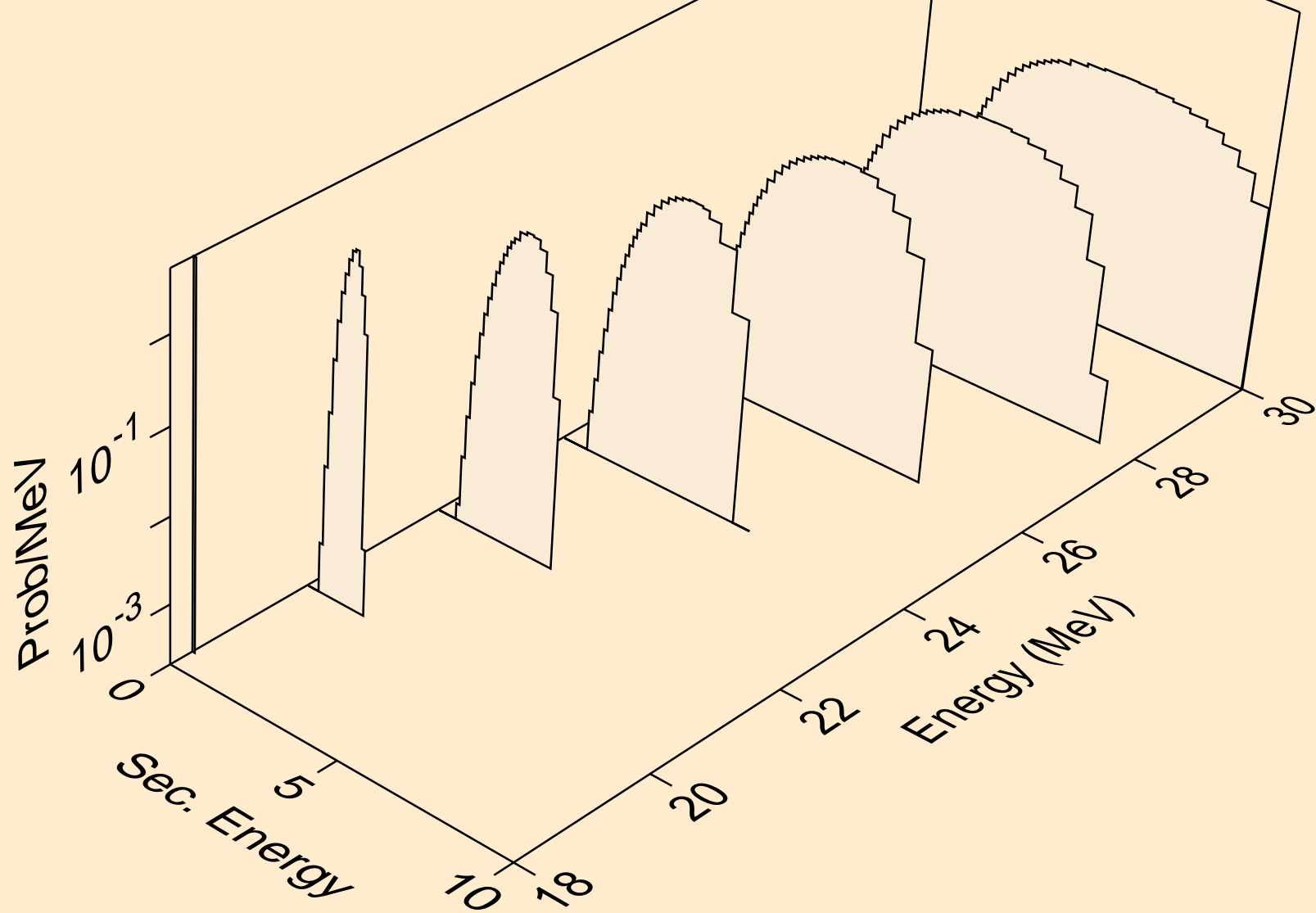
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,x)



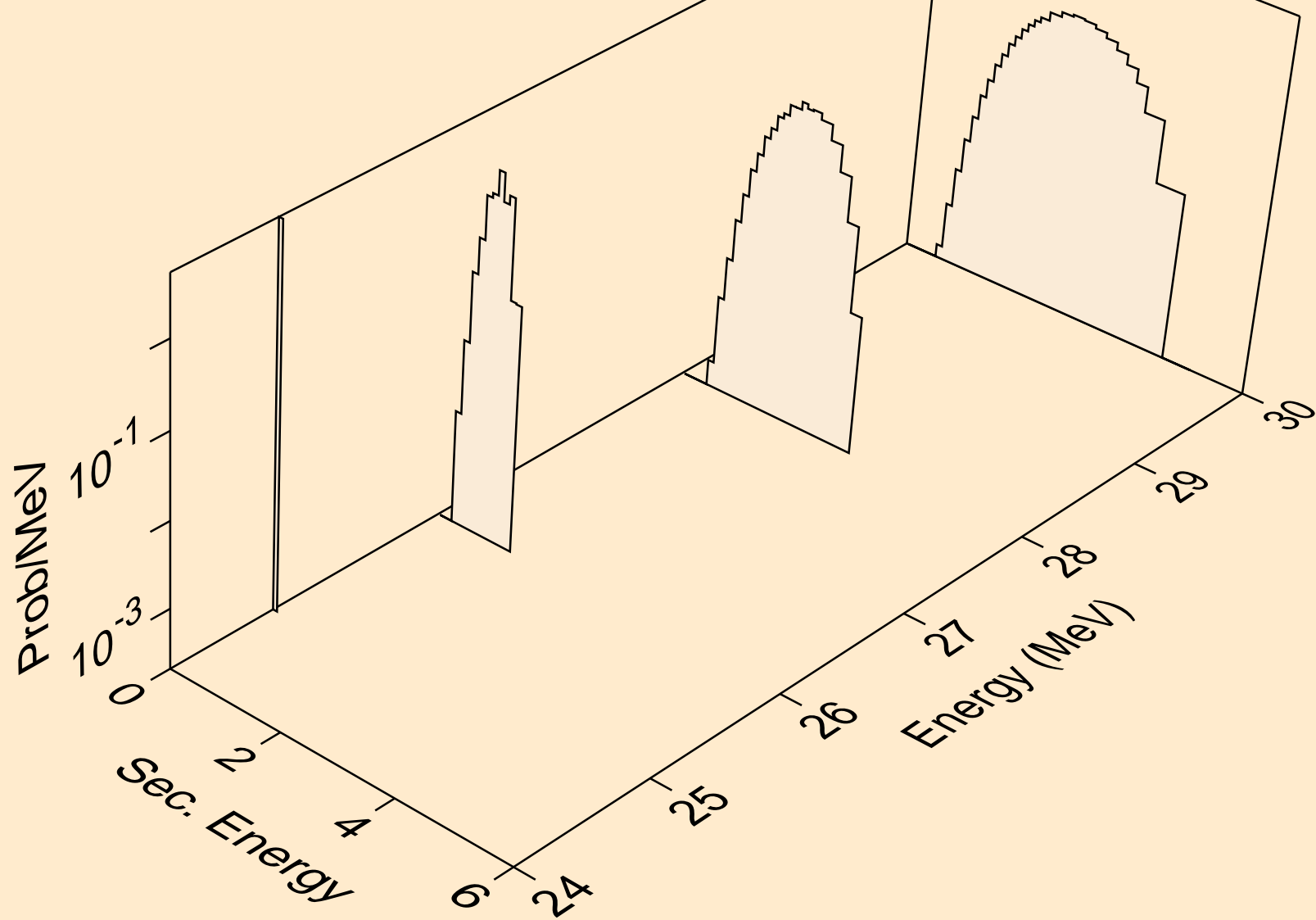
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,n\*)p



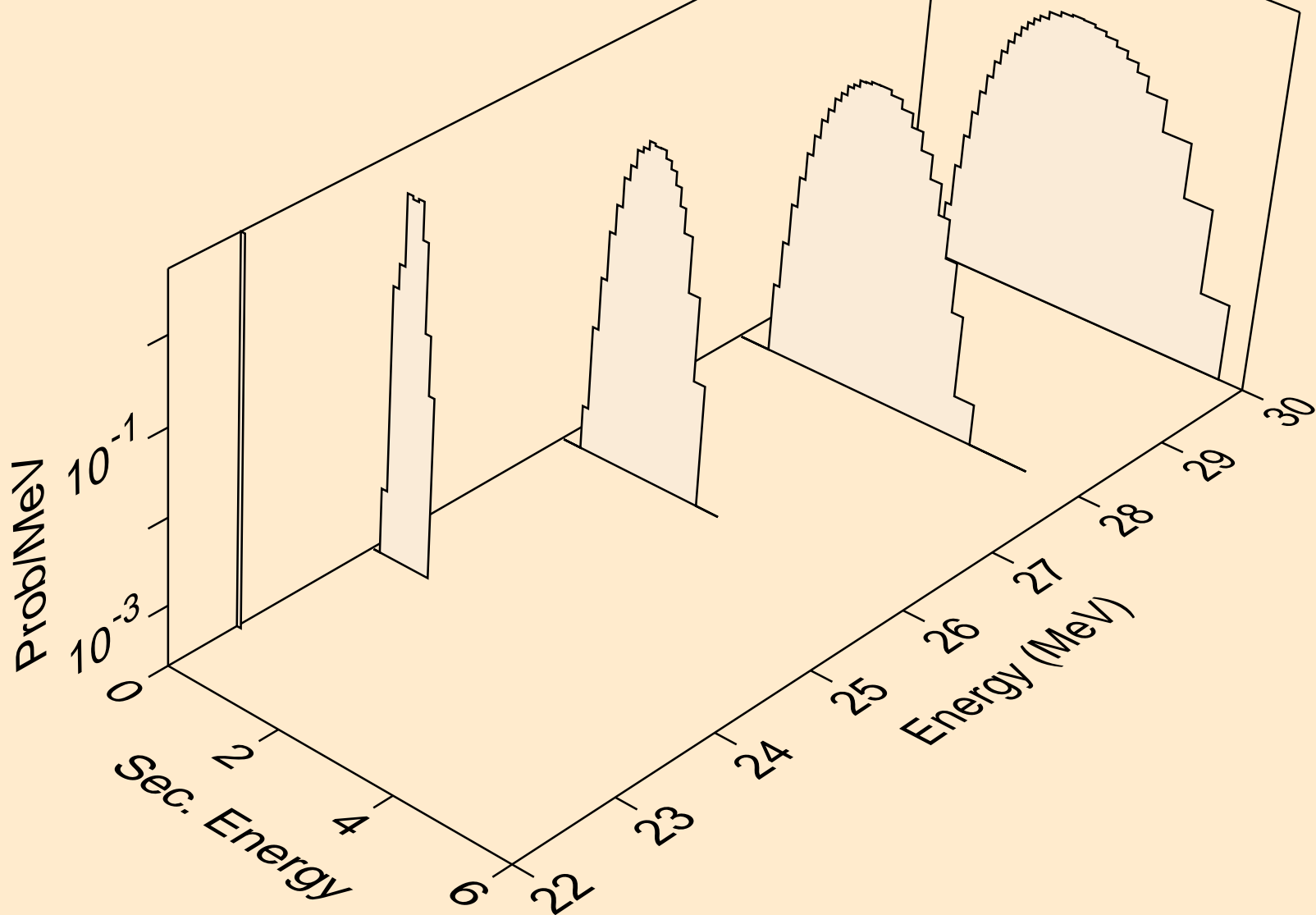
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,2np)



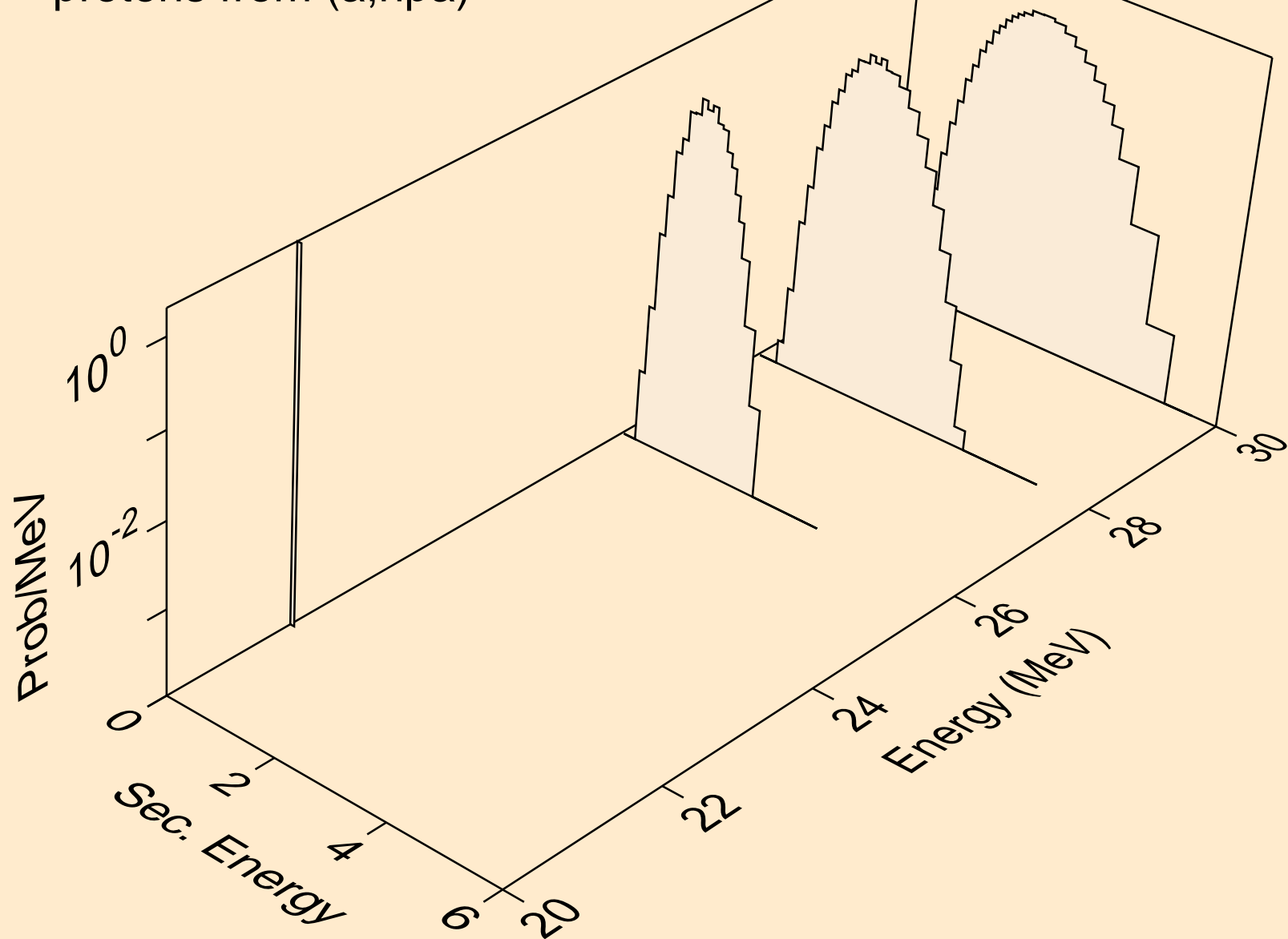
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,3np)



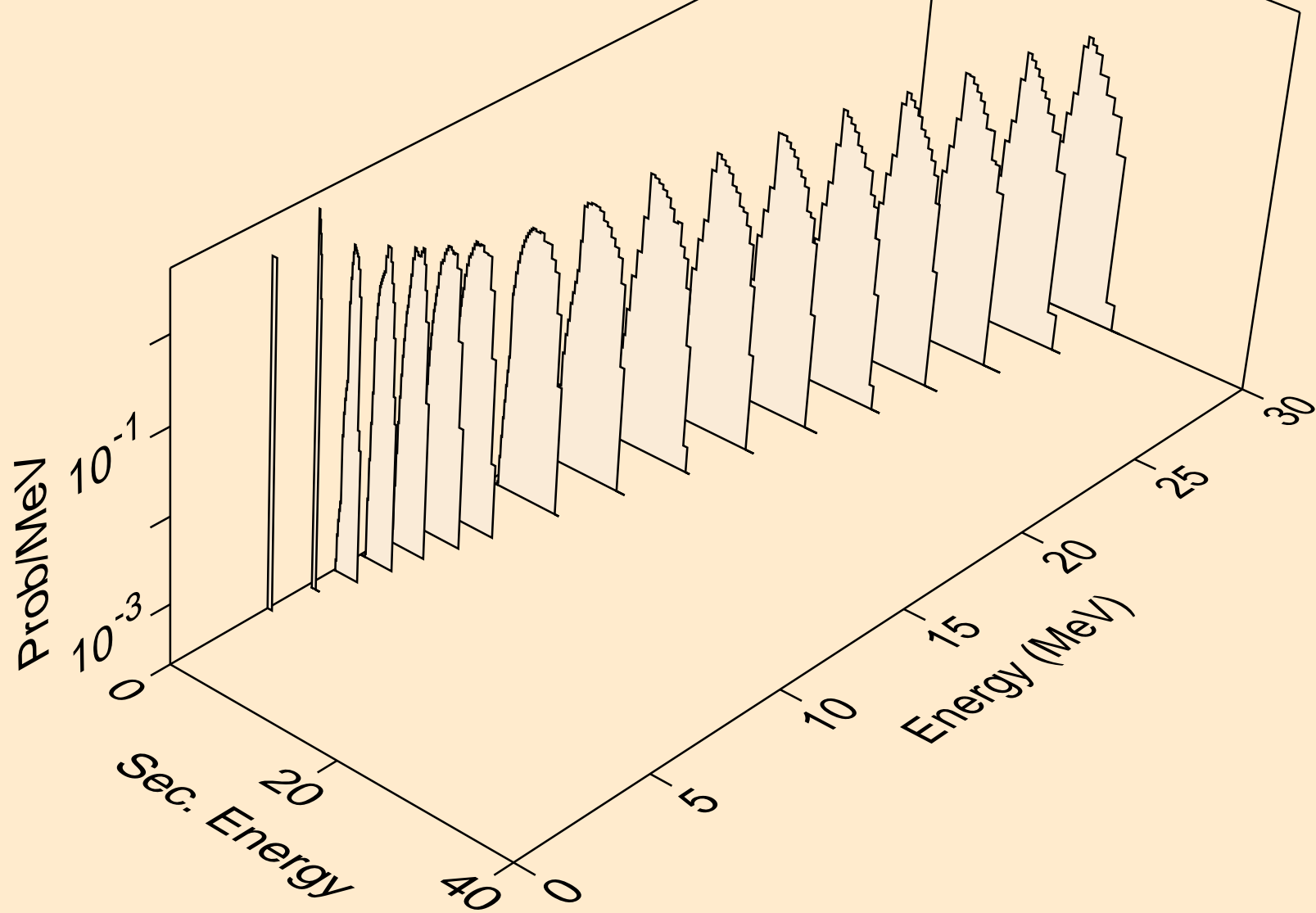
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,n2p)



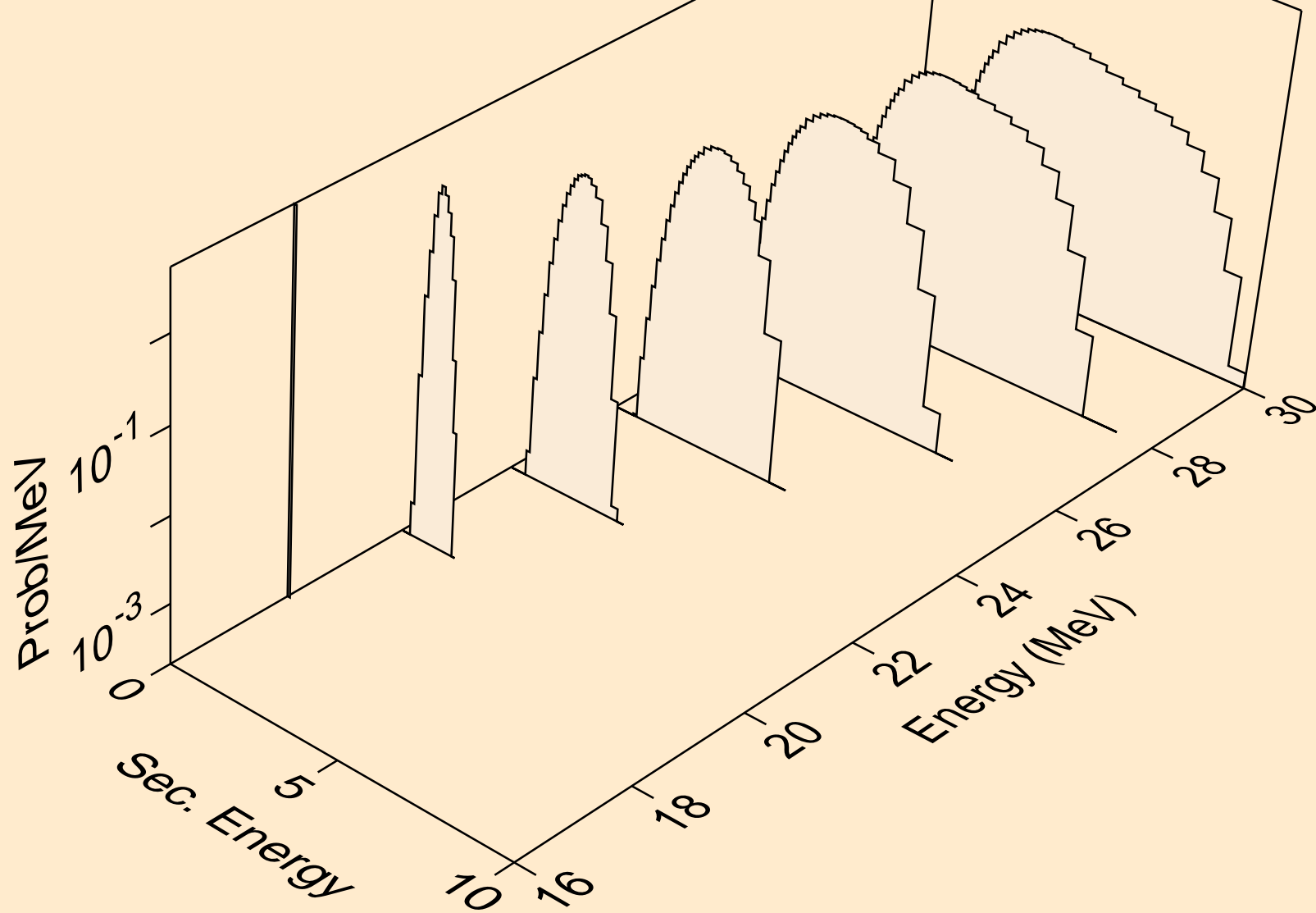
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,npa)



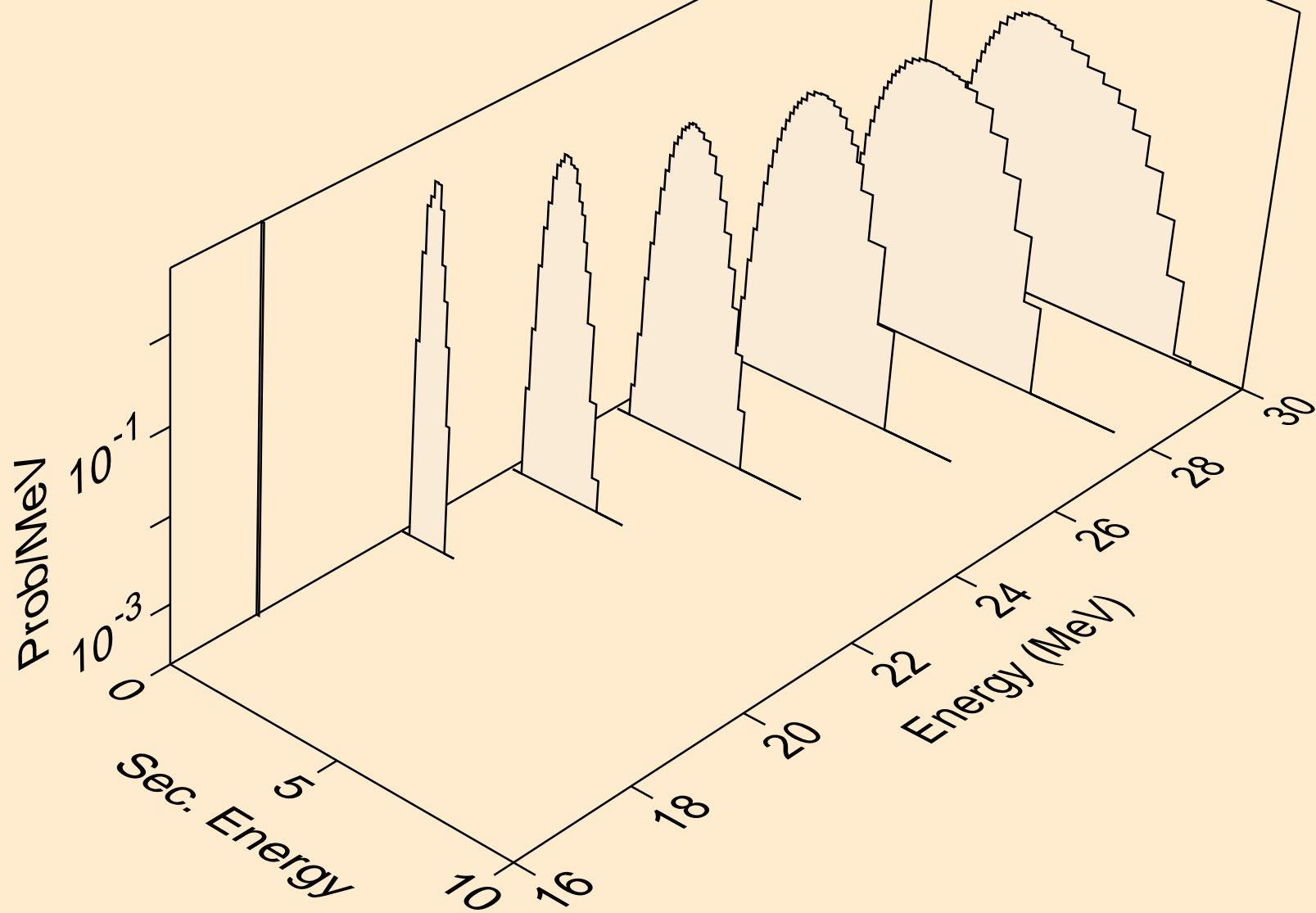
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,p)



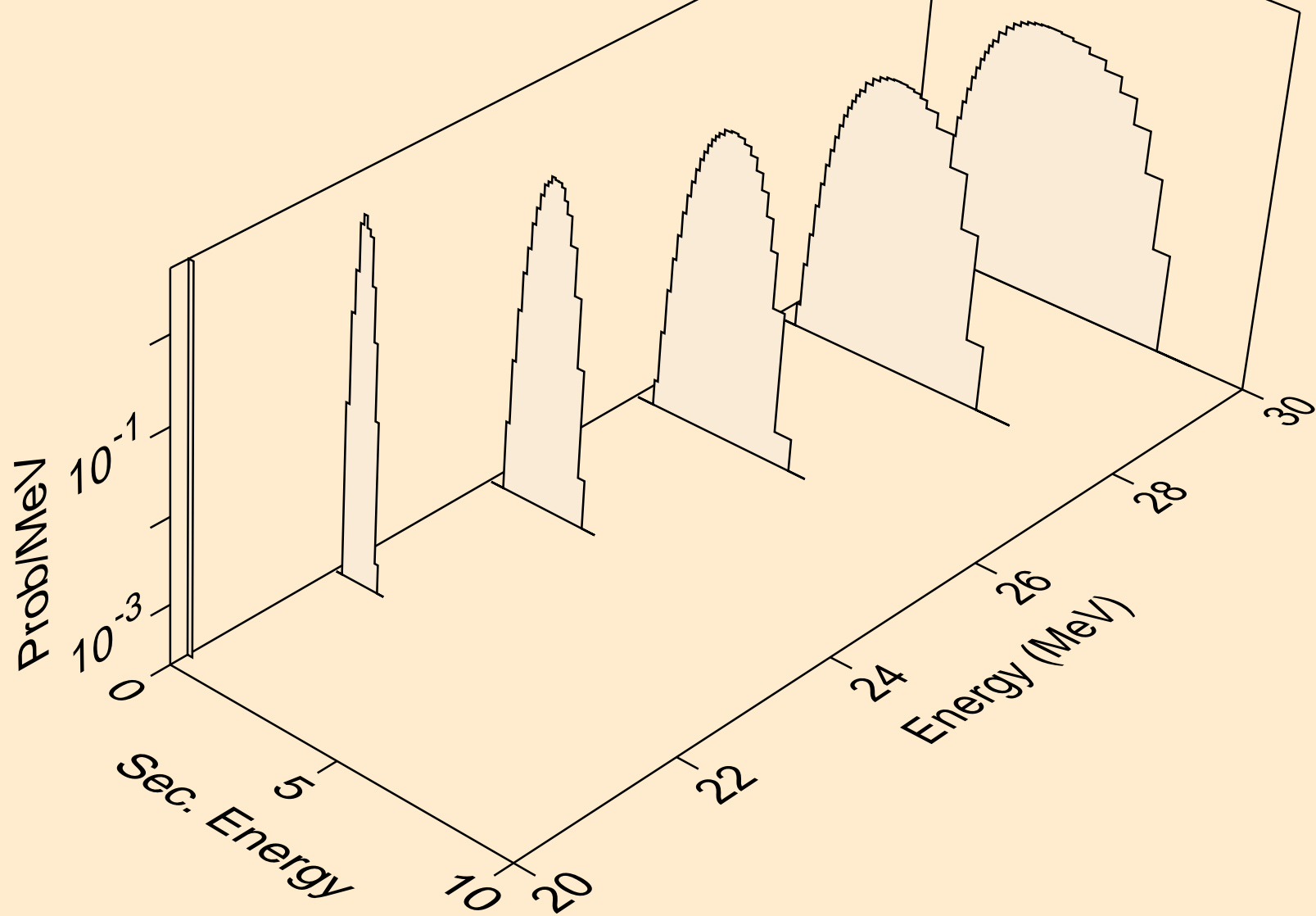
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,2p)



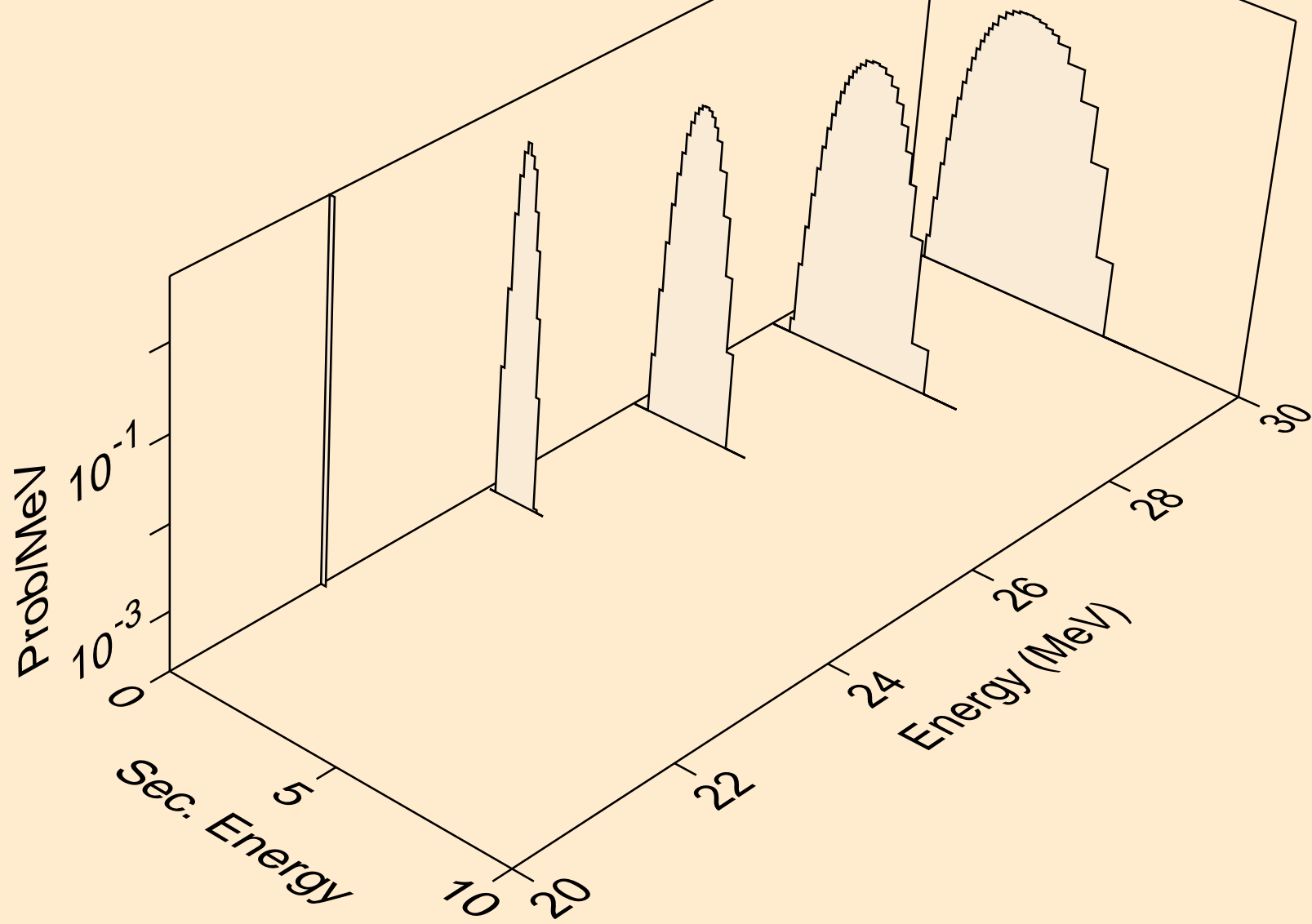
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,pa)



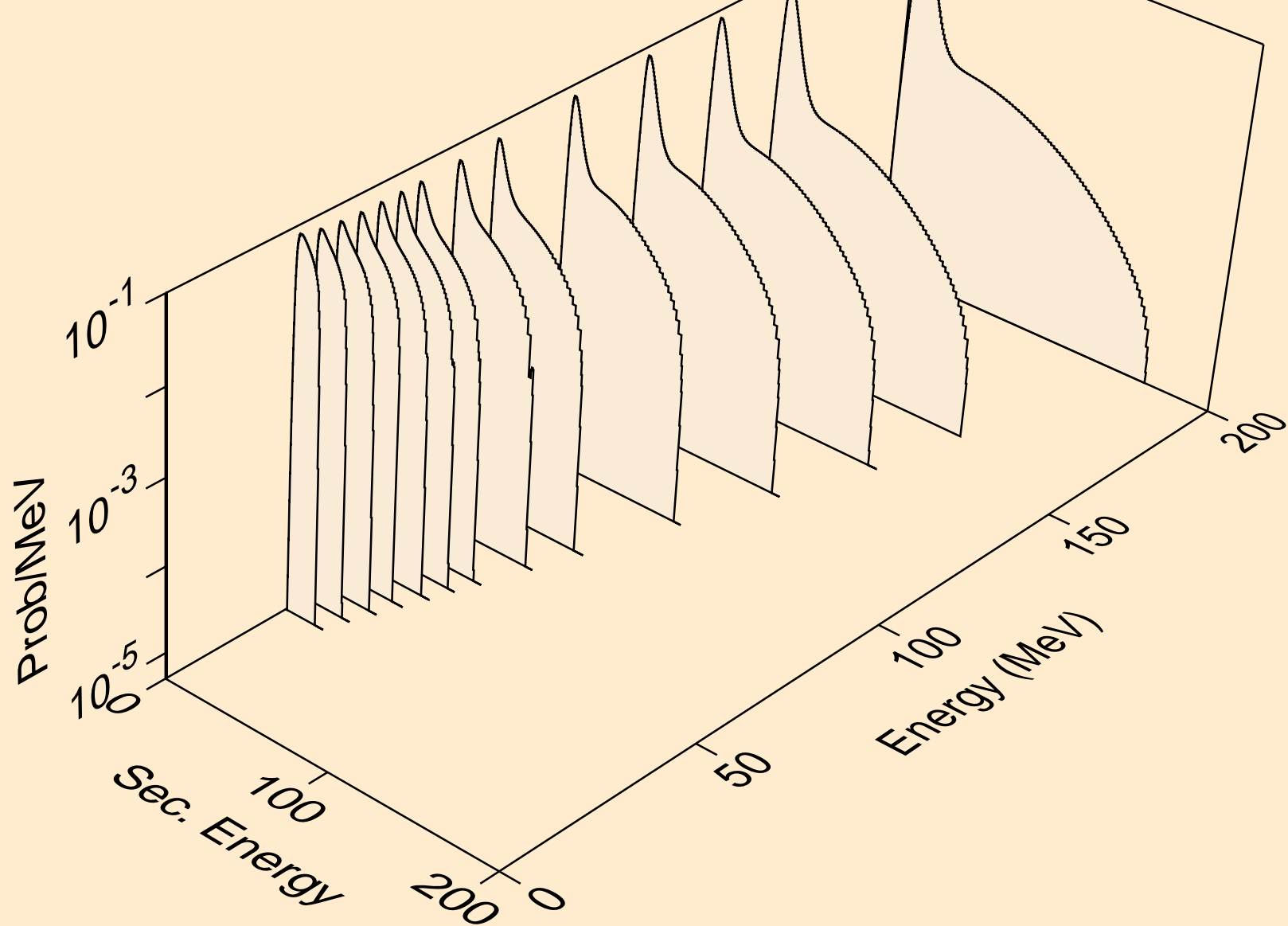
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,pd)



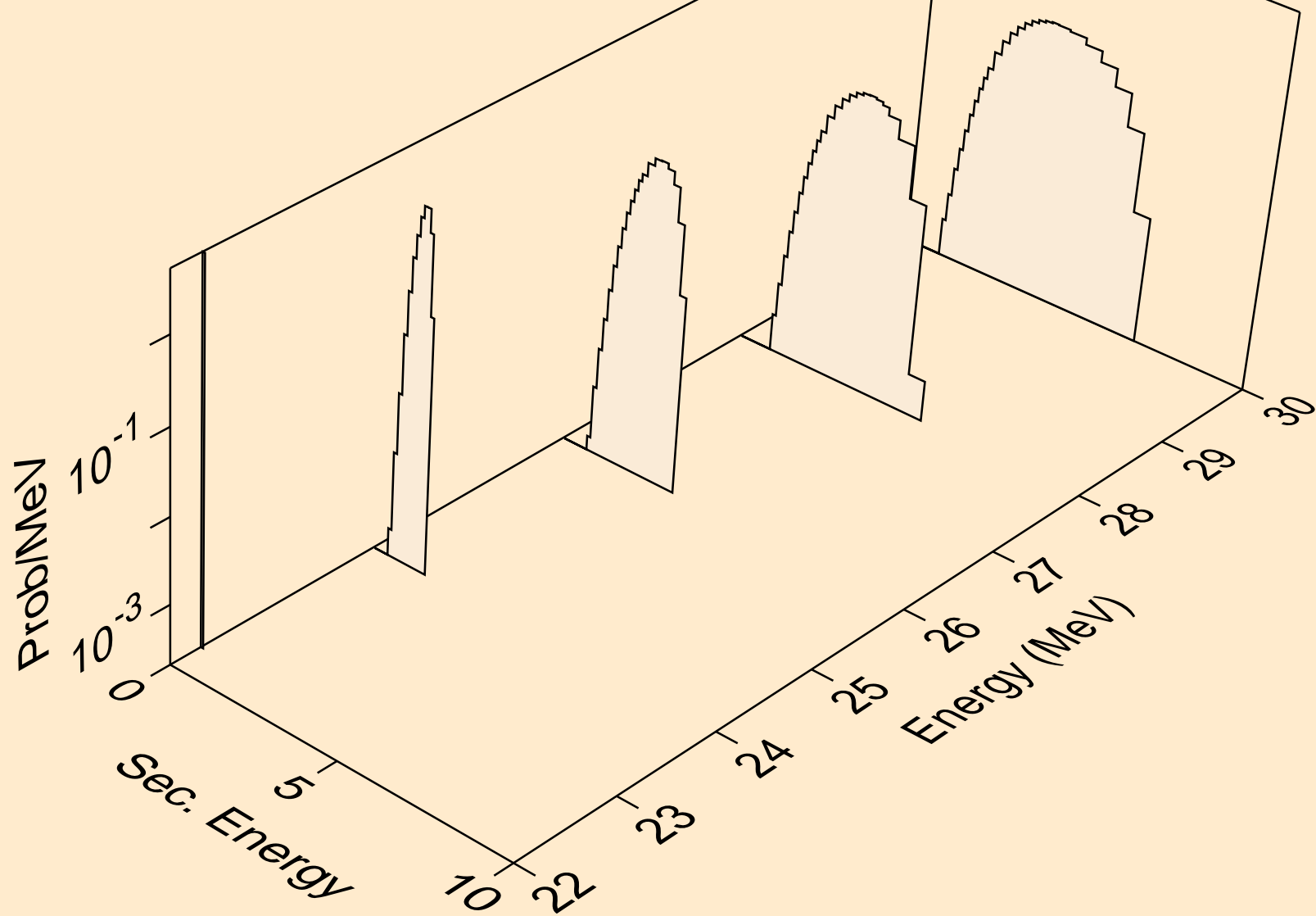
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
protons from (a,pt)



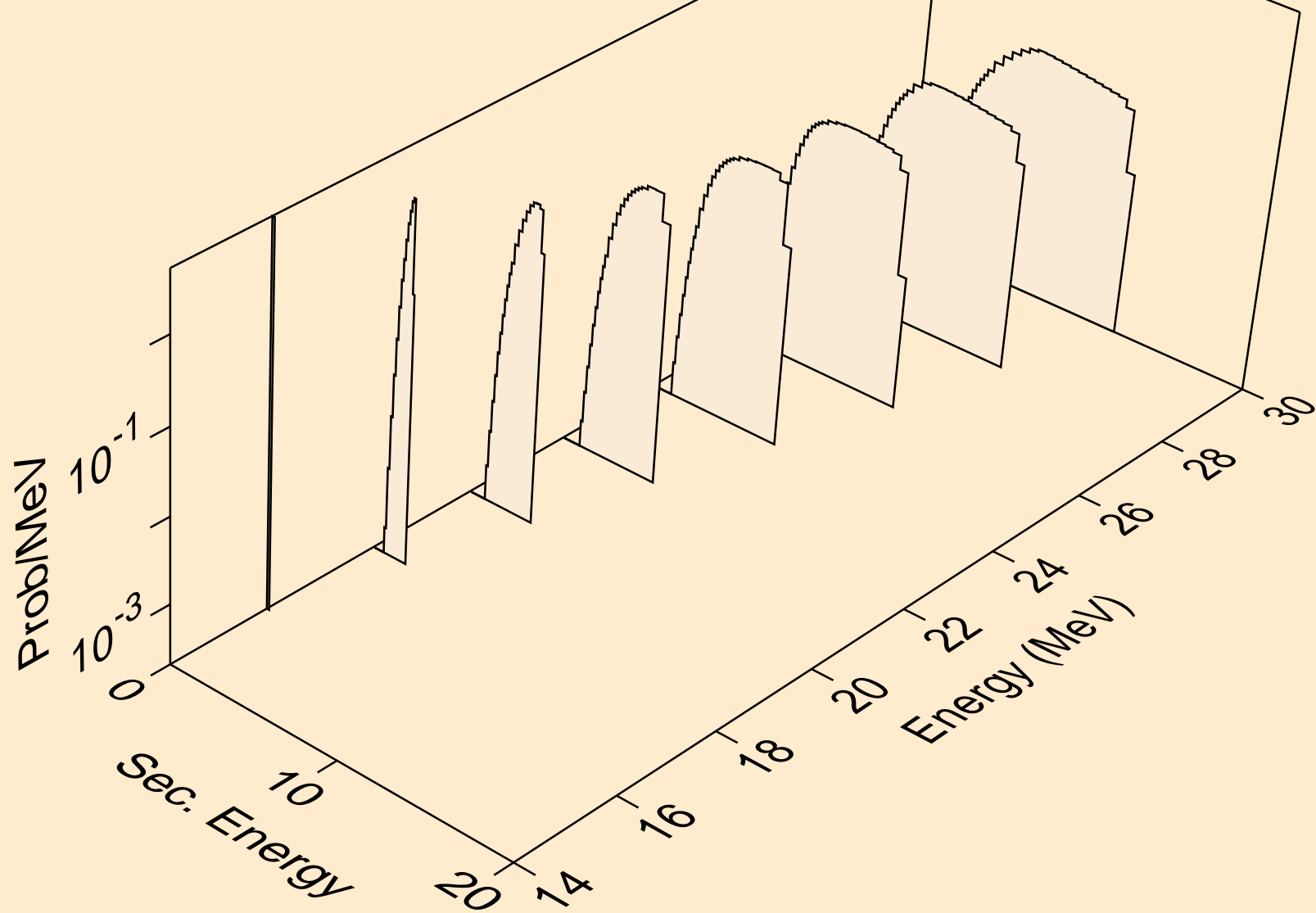
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,x)



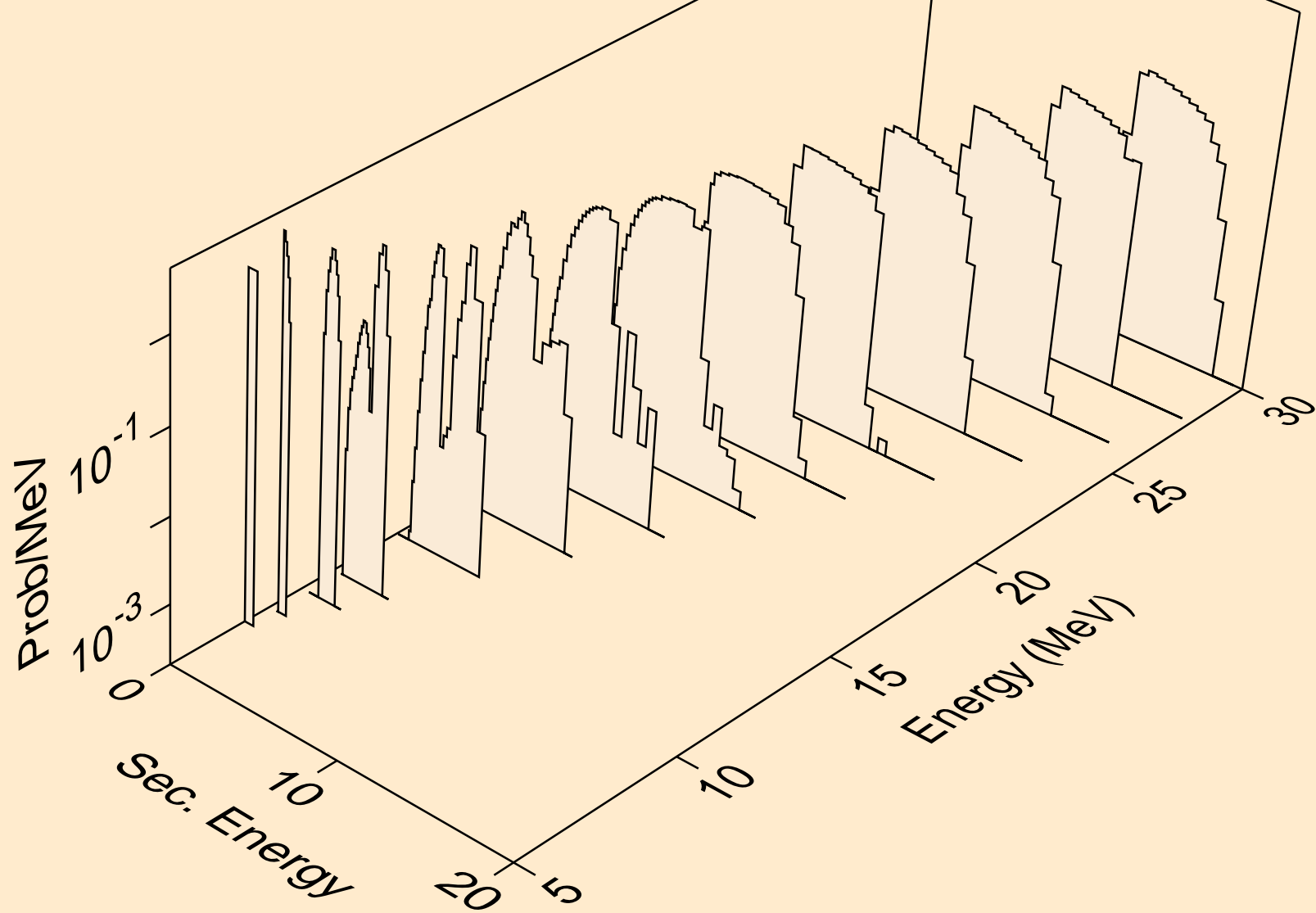
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,2nd)



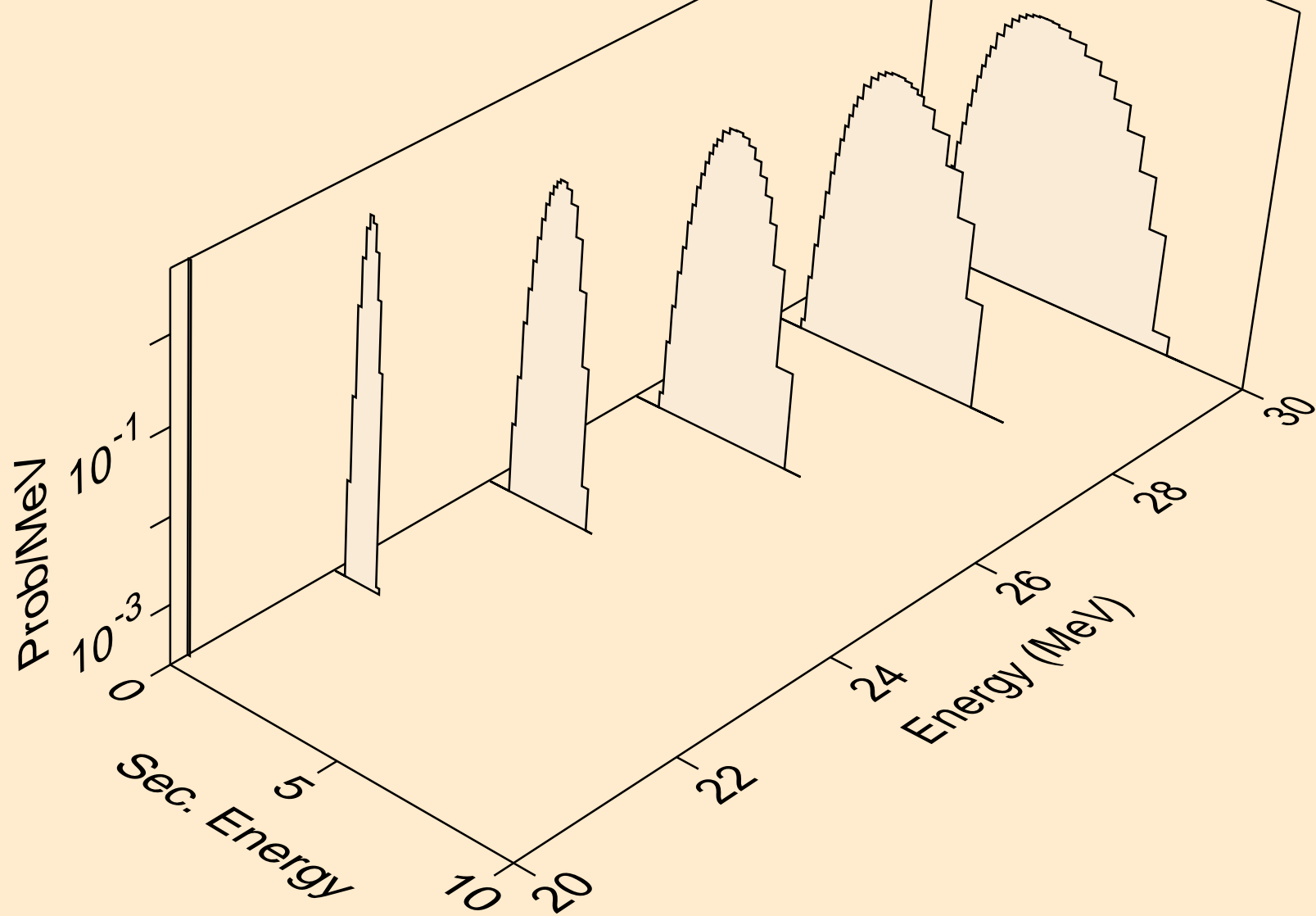
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,n\*)d



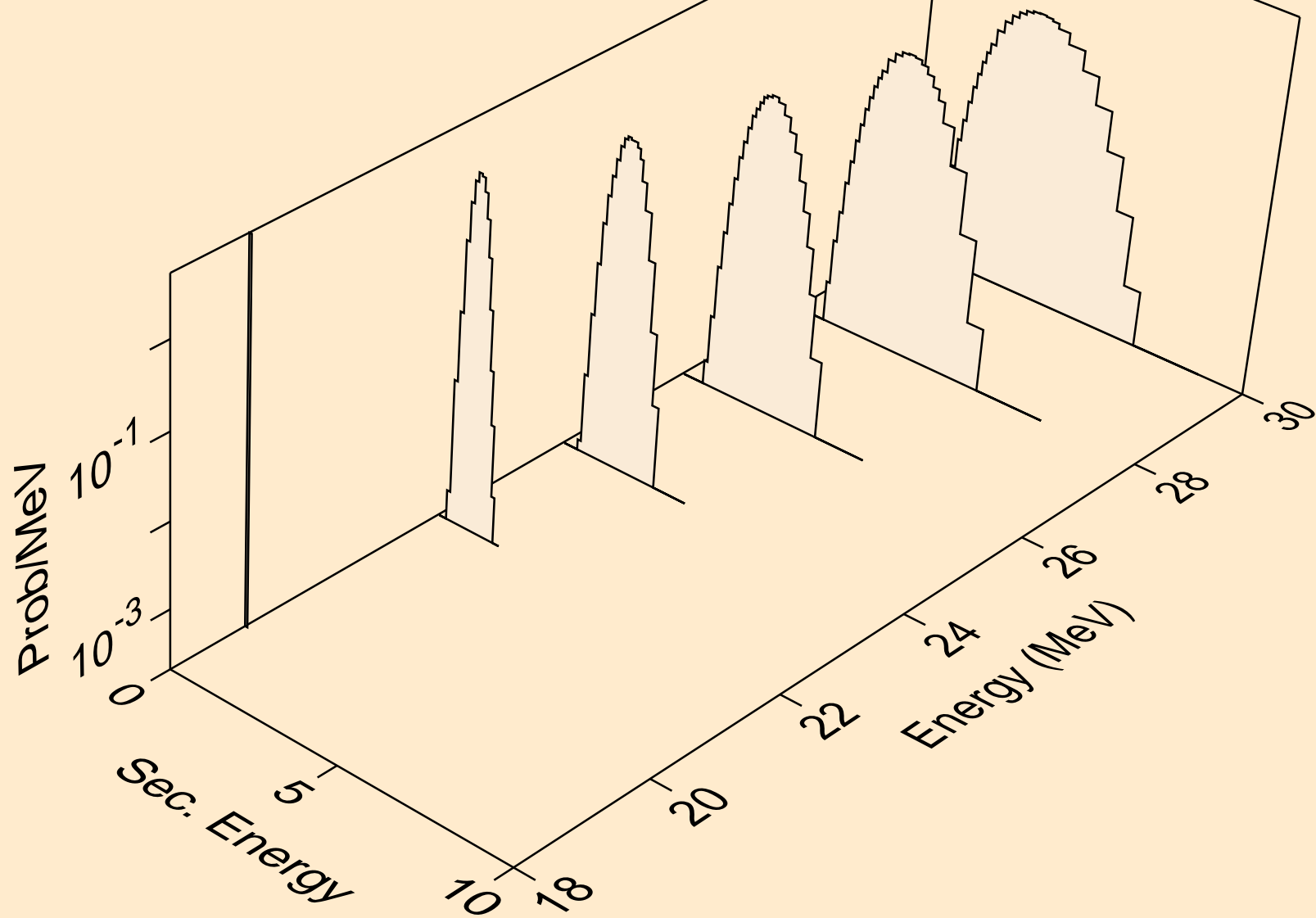
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,d)



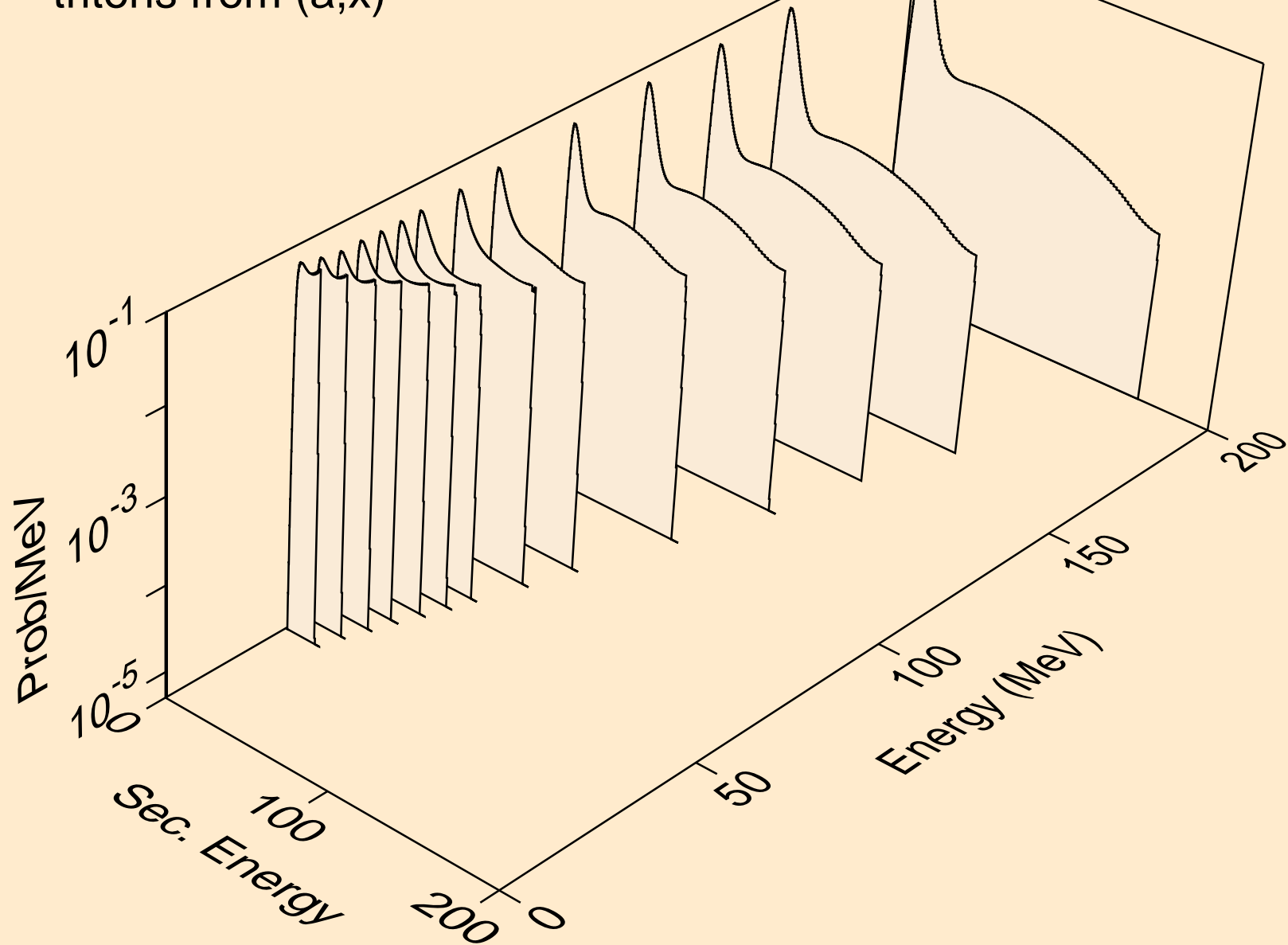
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,pd)



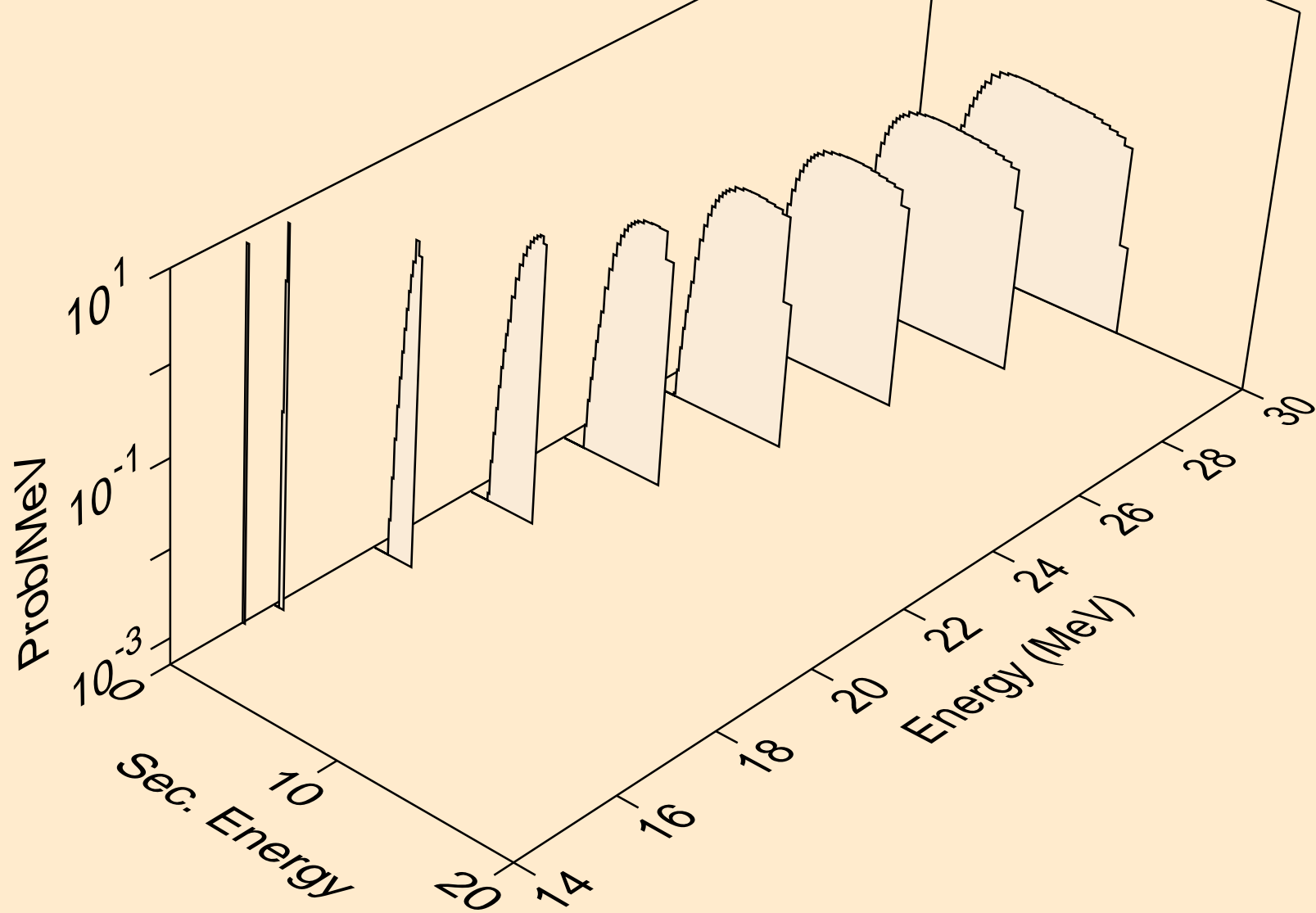
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (a,da)



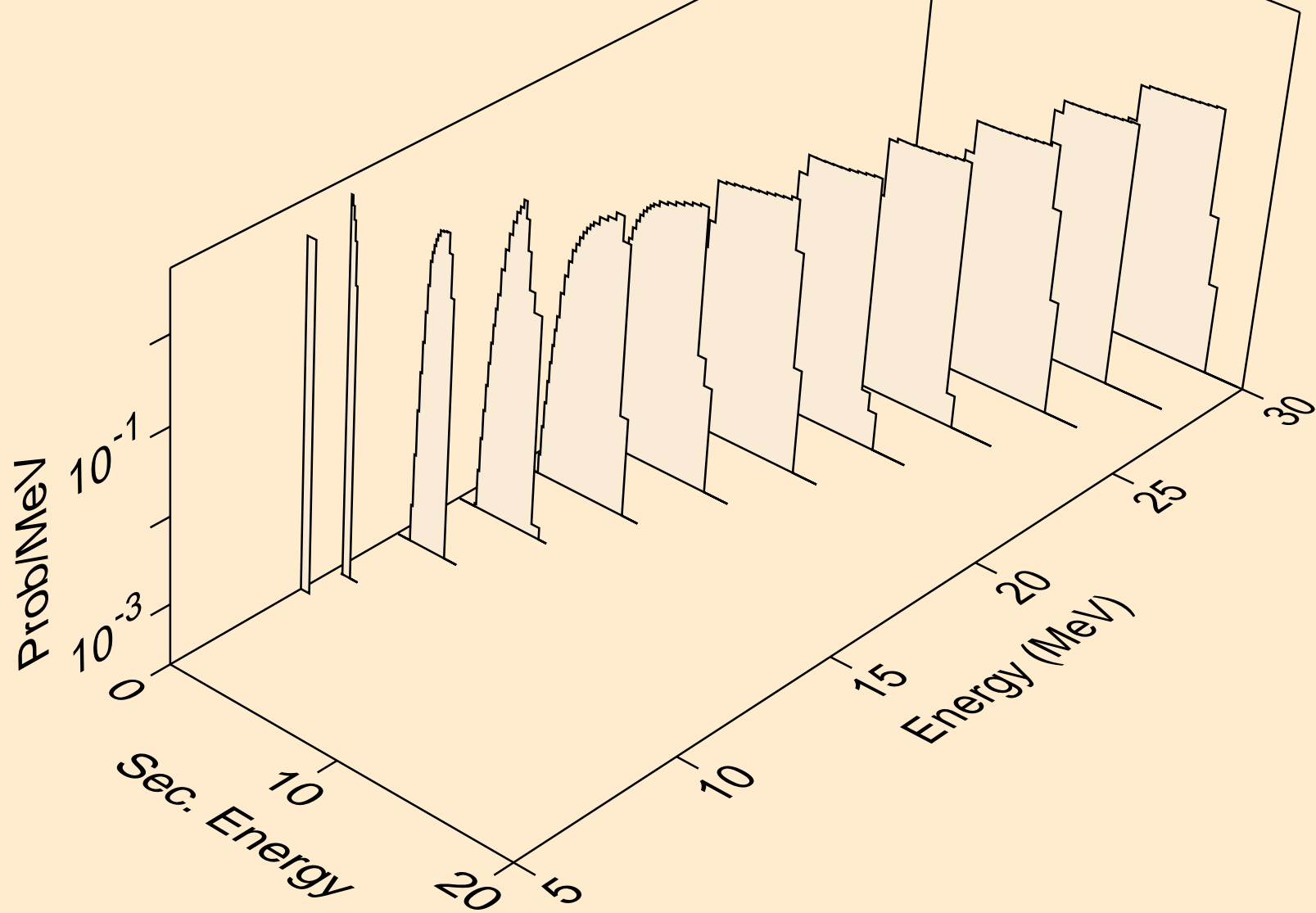
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,x)



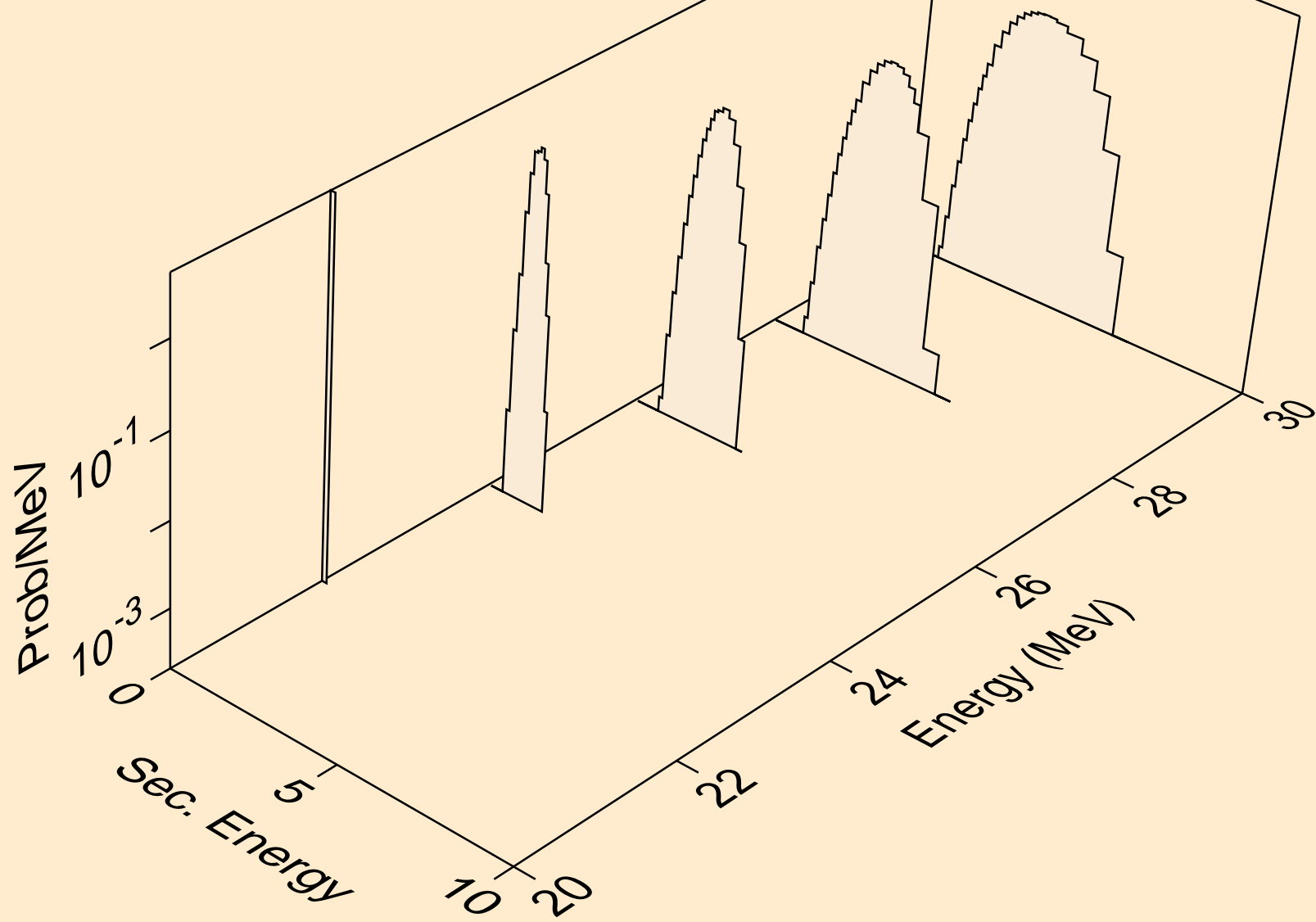
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,n\*)t



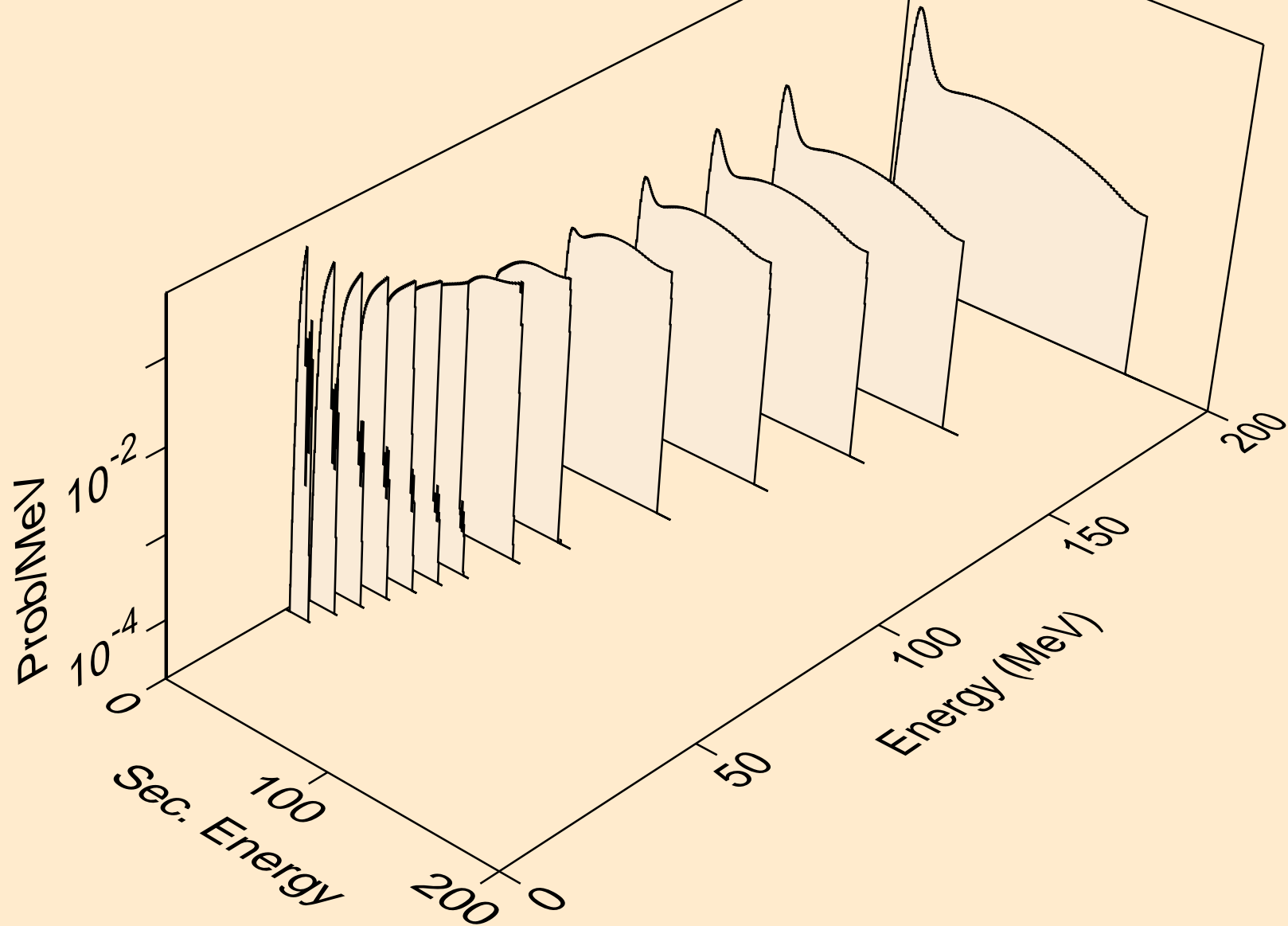
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,t)



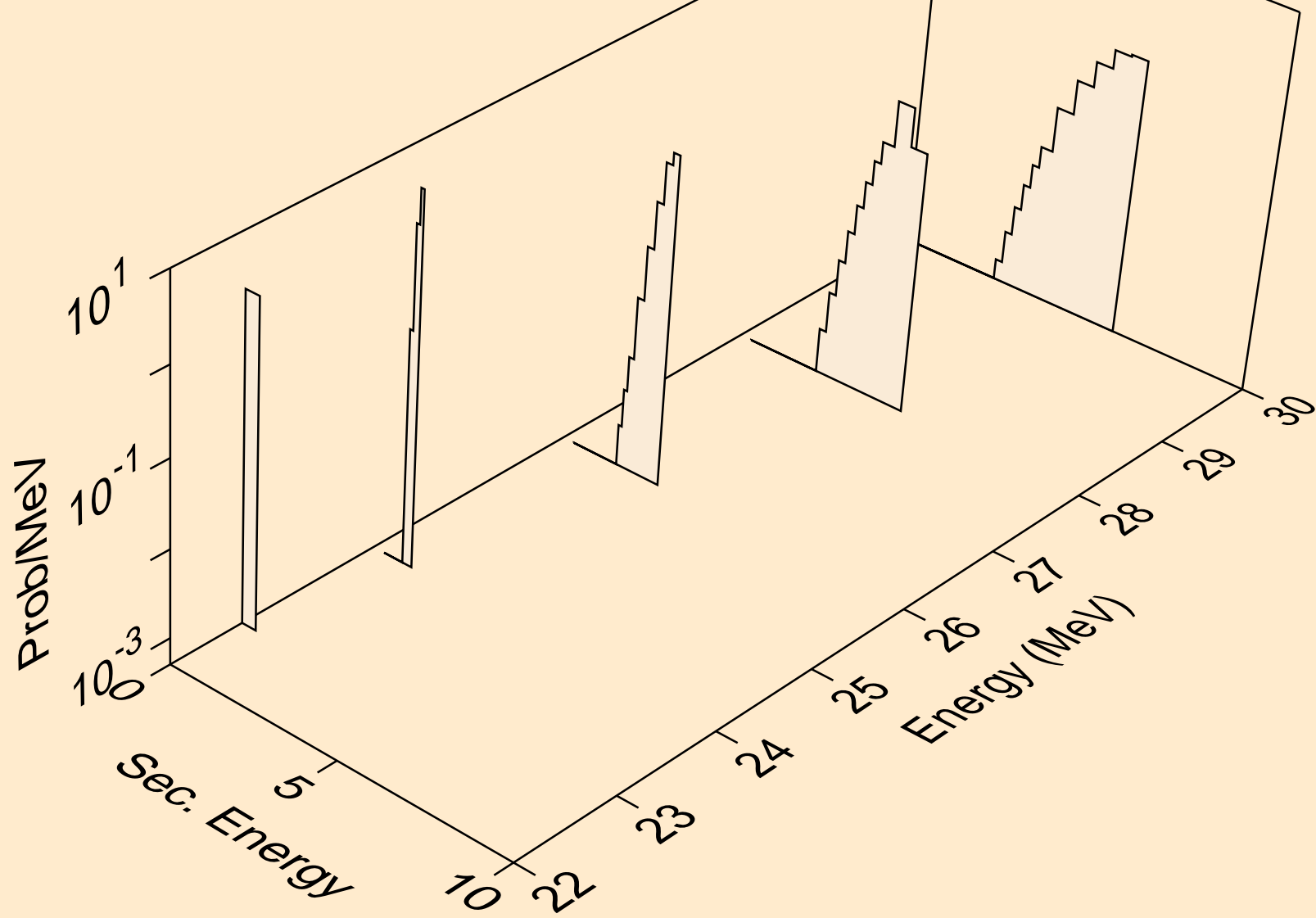
S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (a,pt)



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,x)



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,n\*)he3



S039 ALPHA ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (a,he3)

