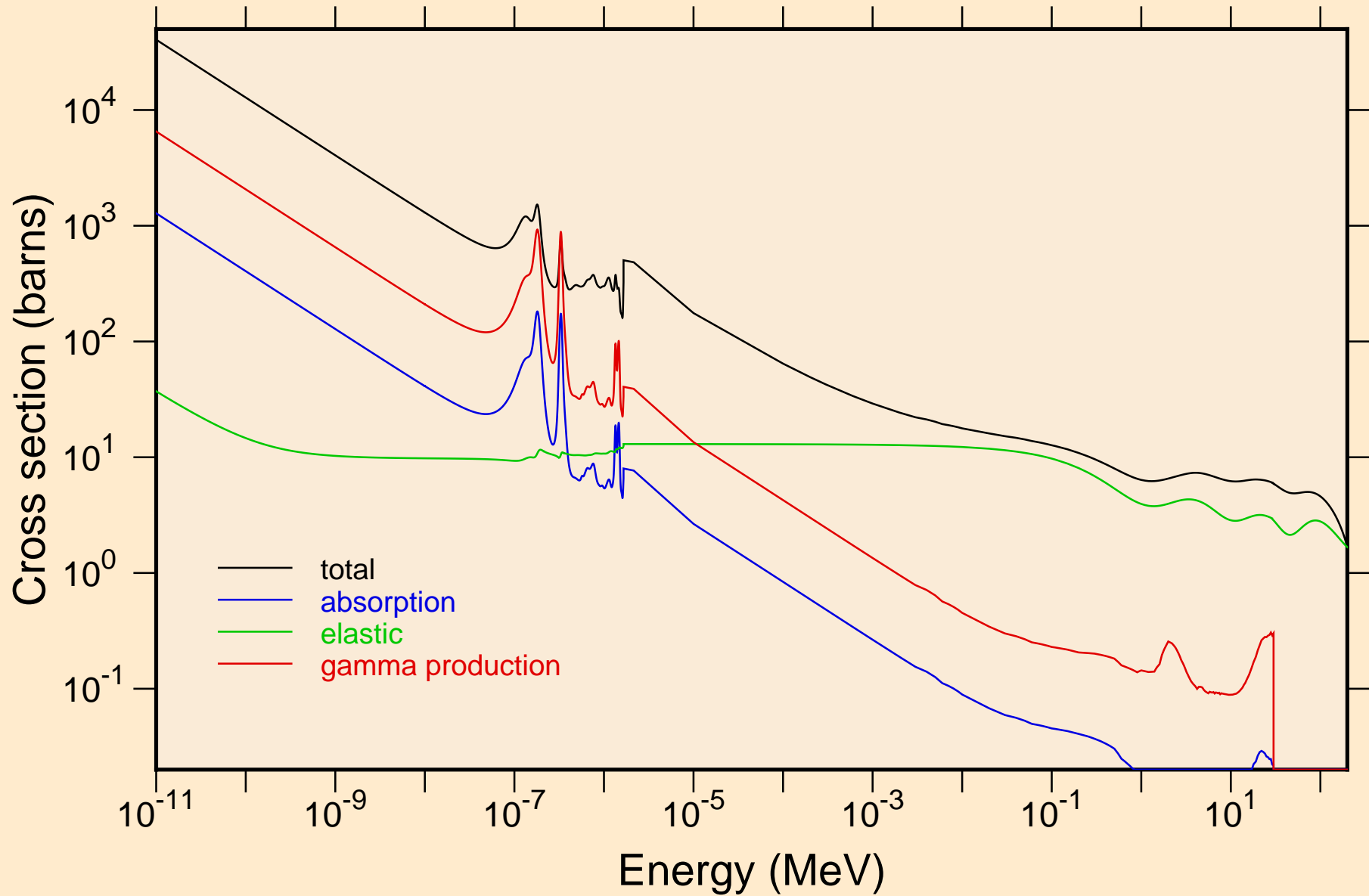
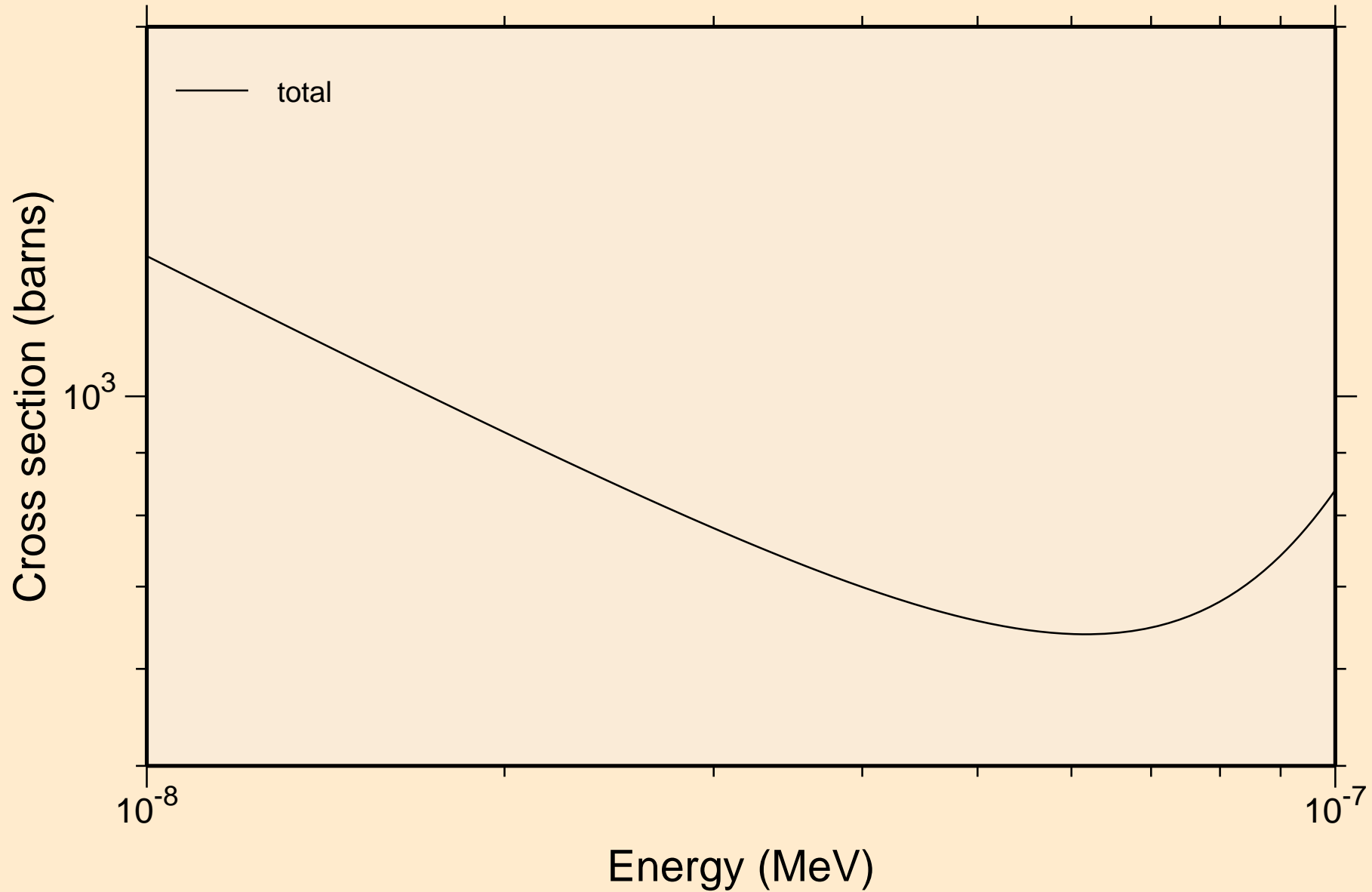


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

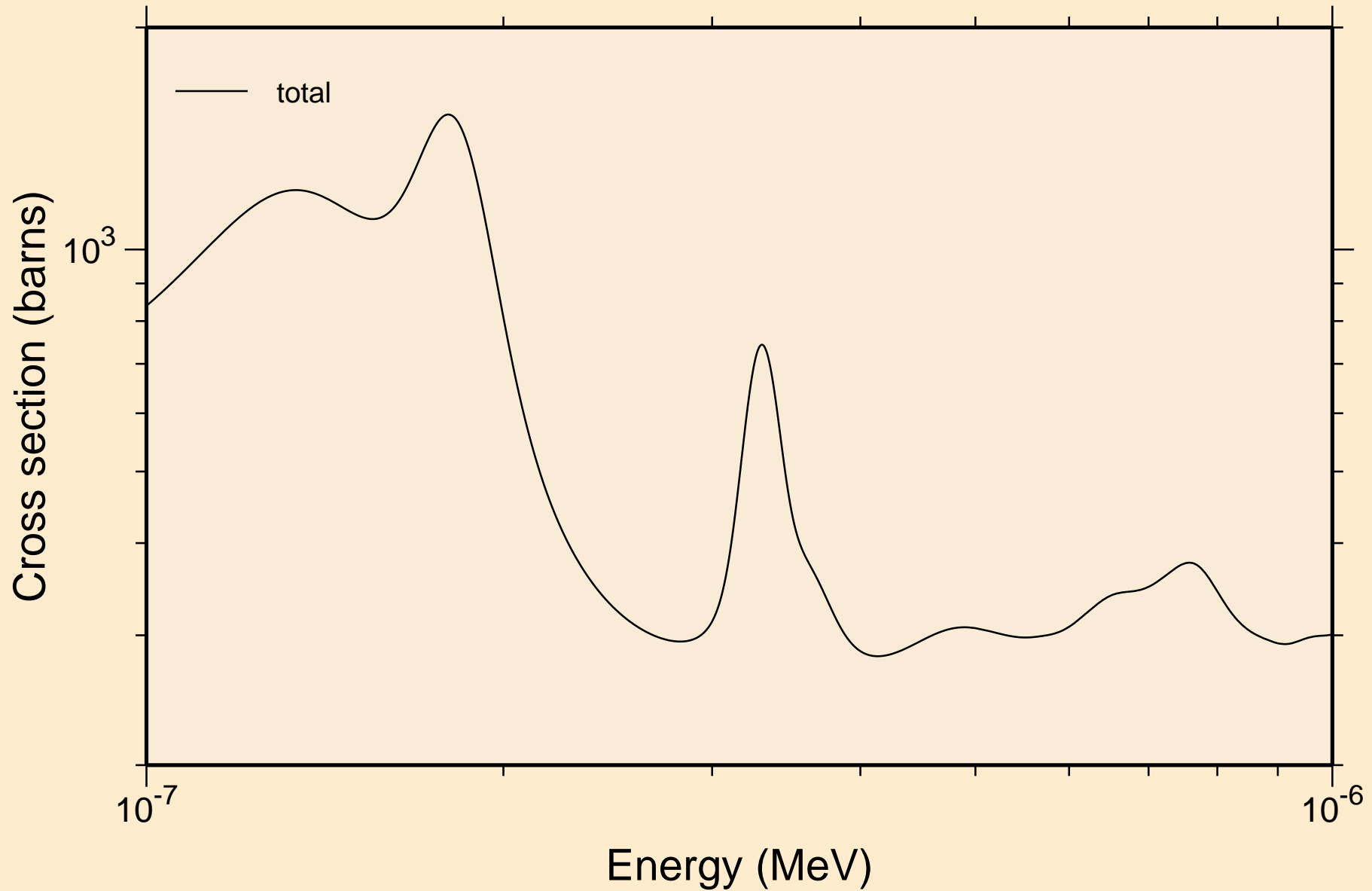
## Principal cross sections



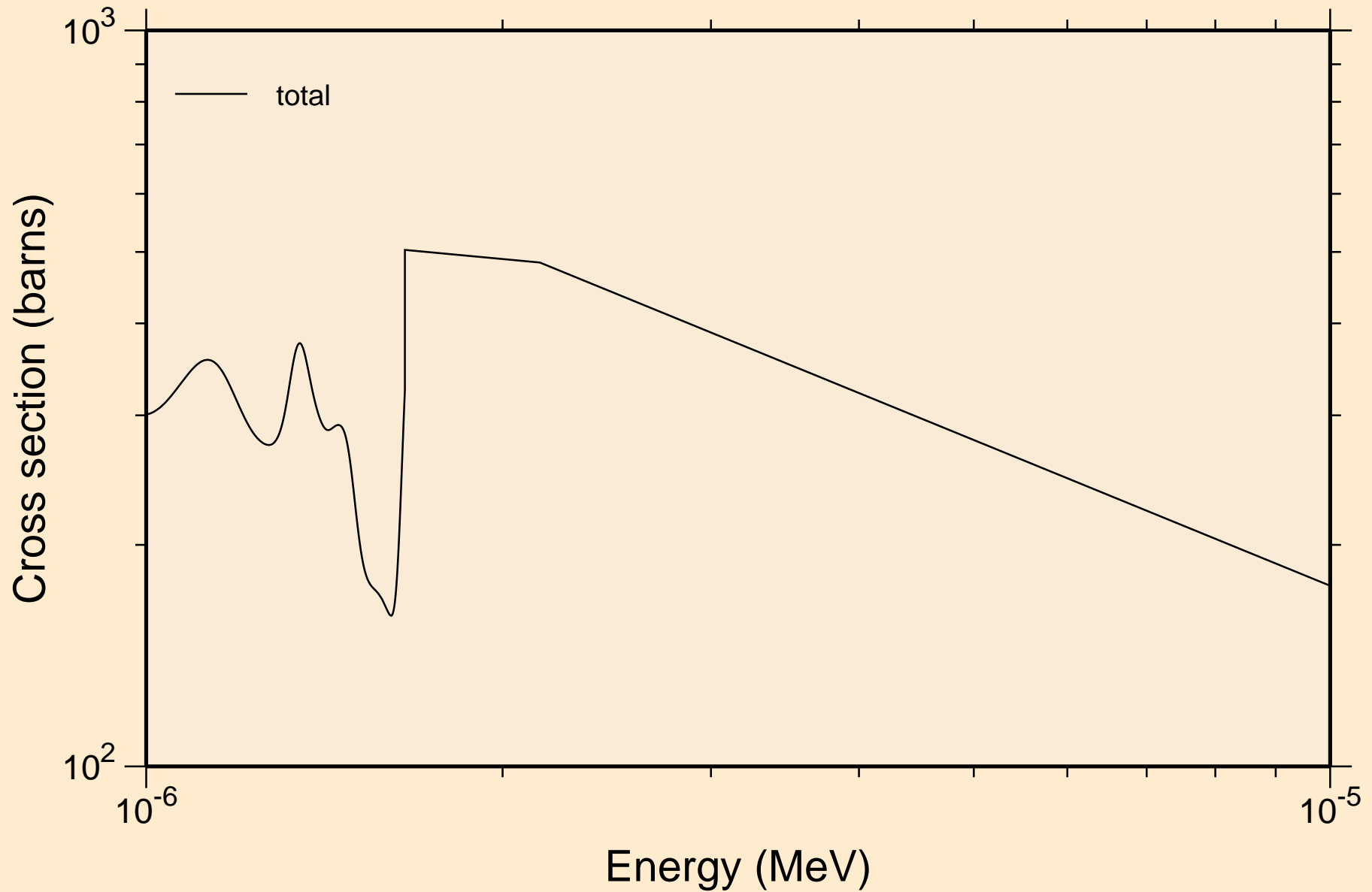
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



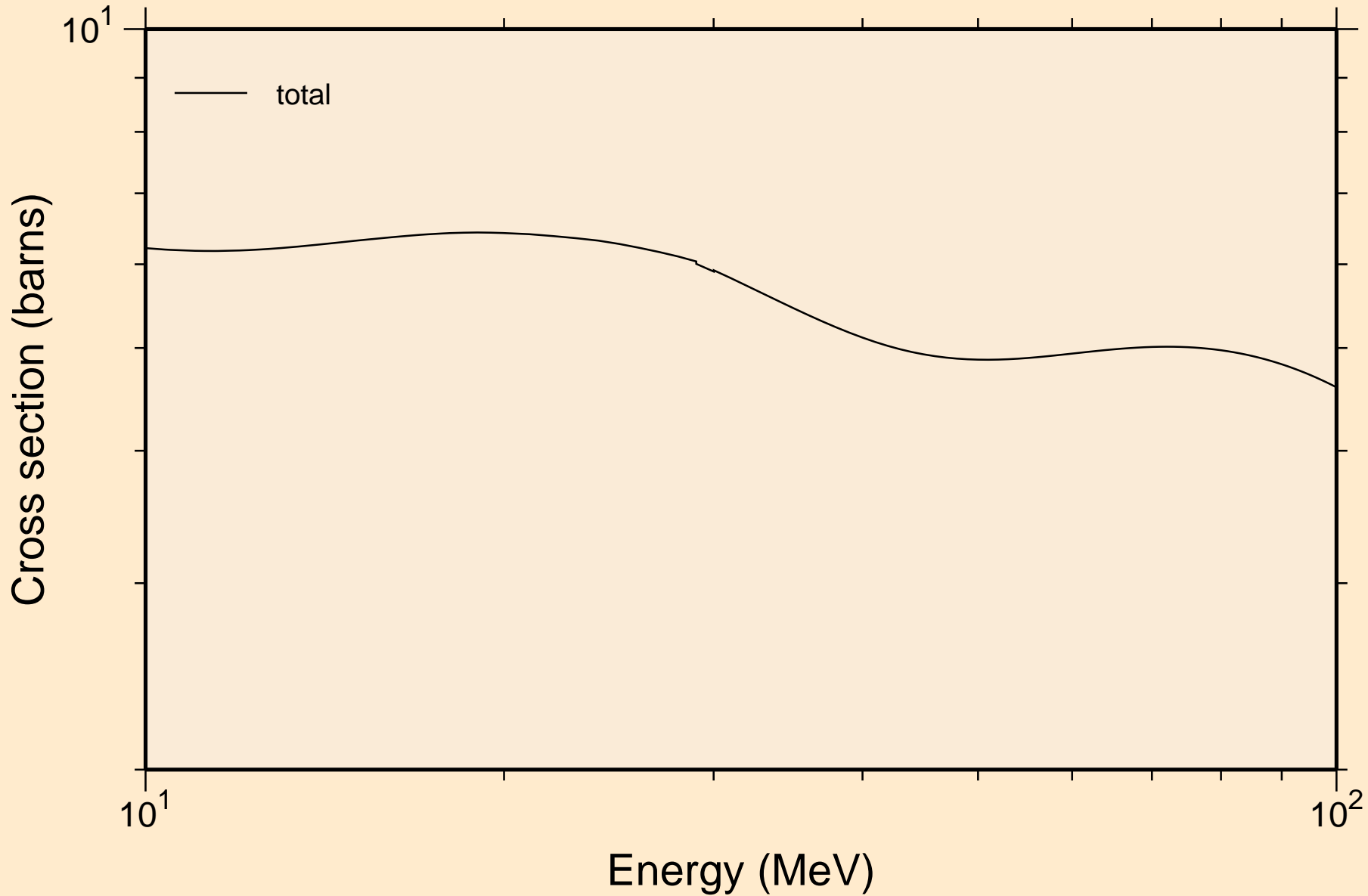
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



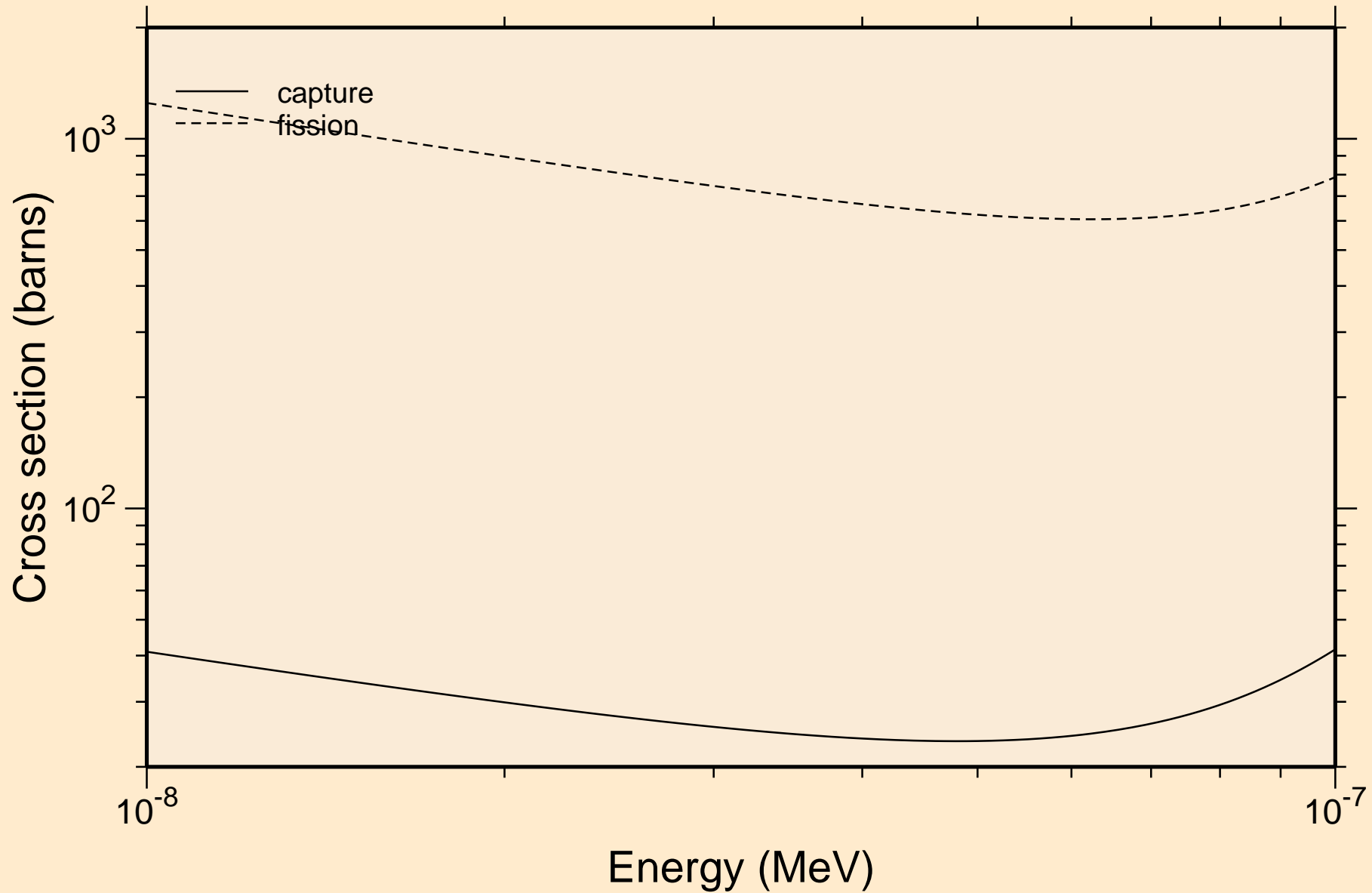
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



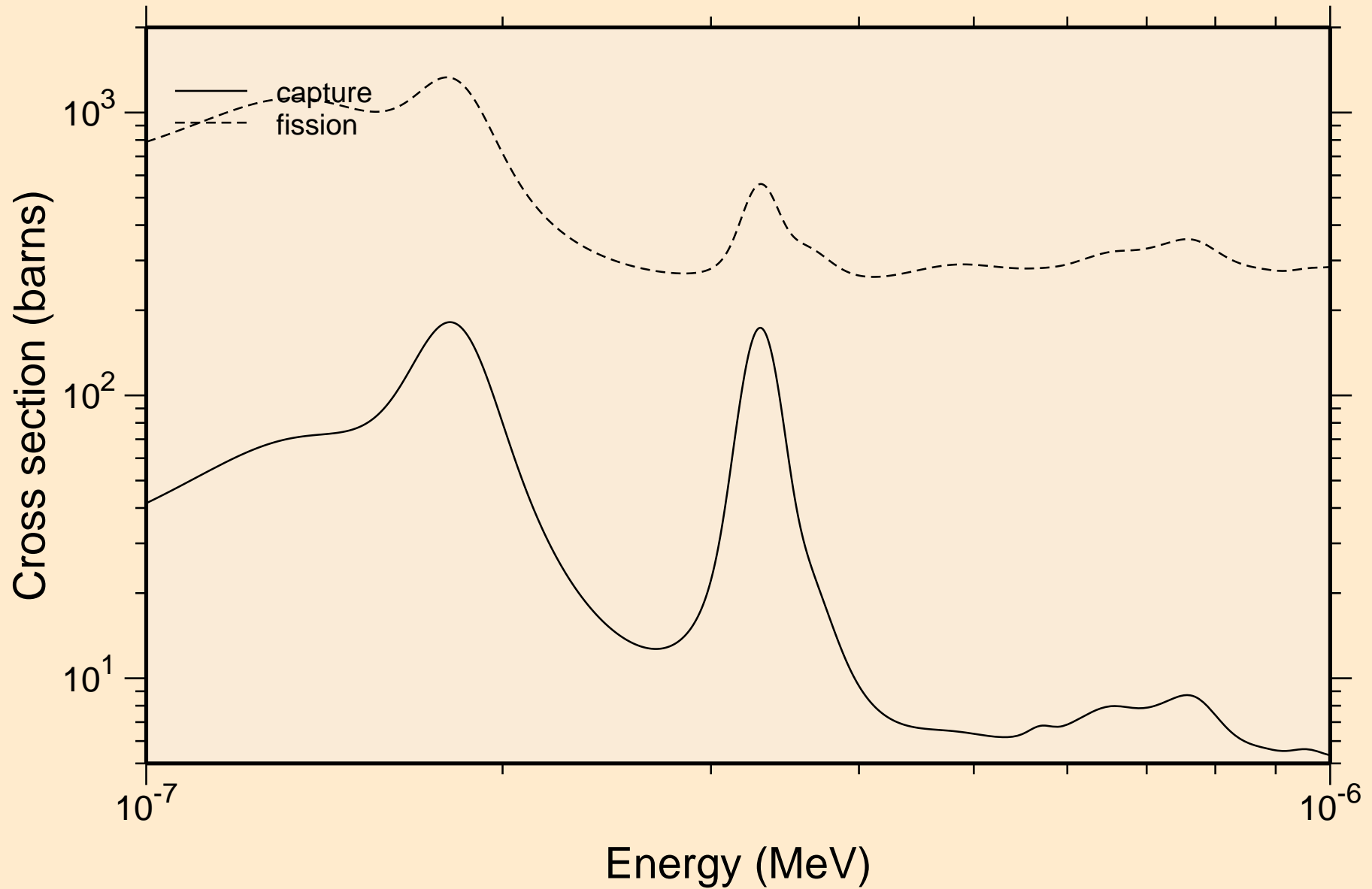
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance total cross section



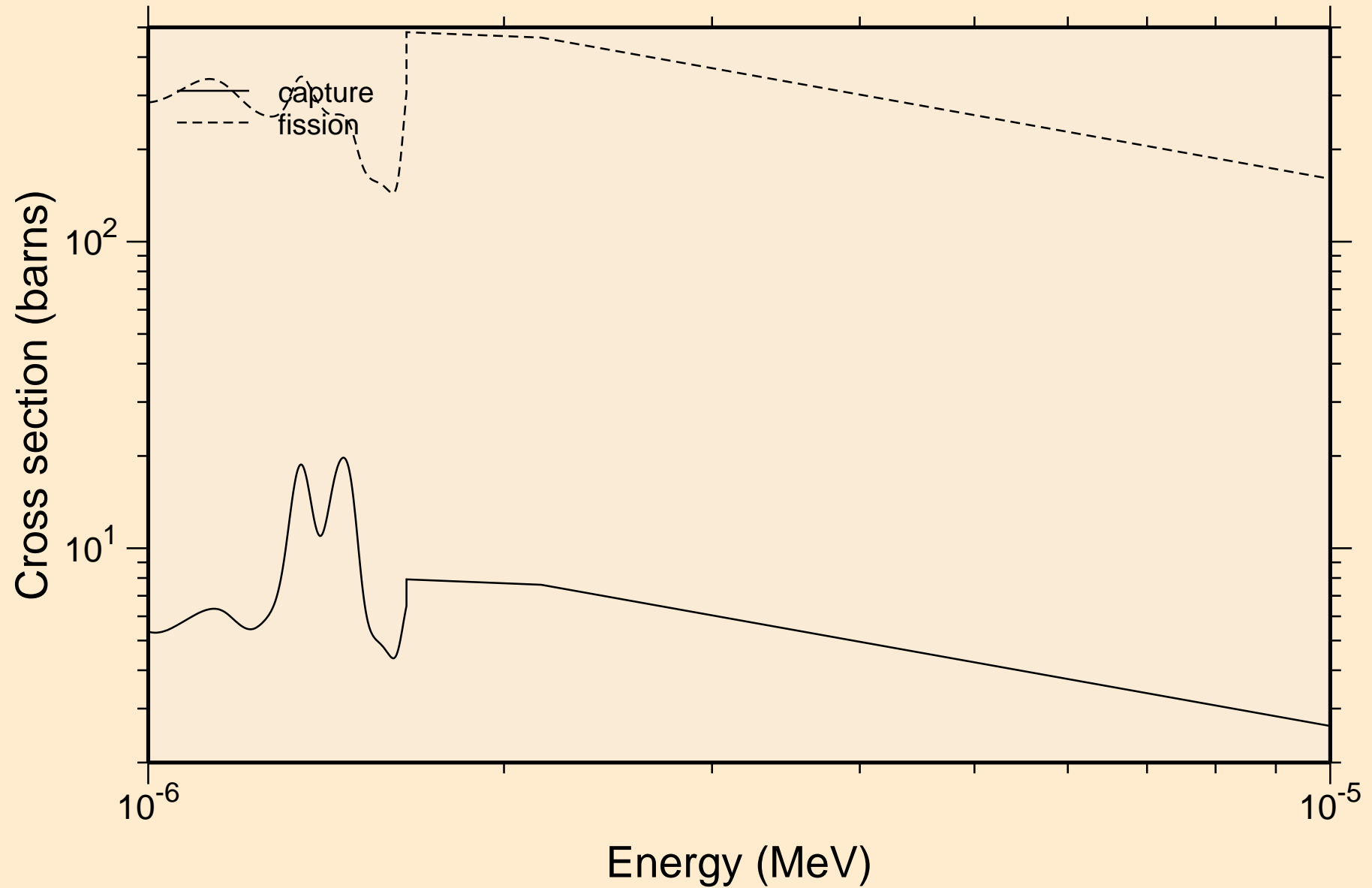
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

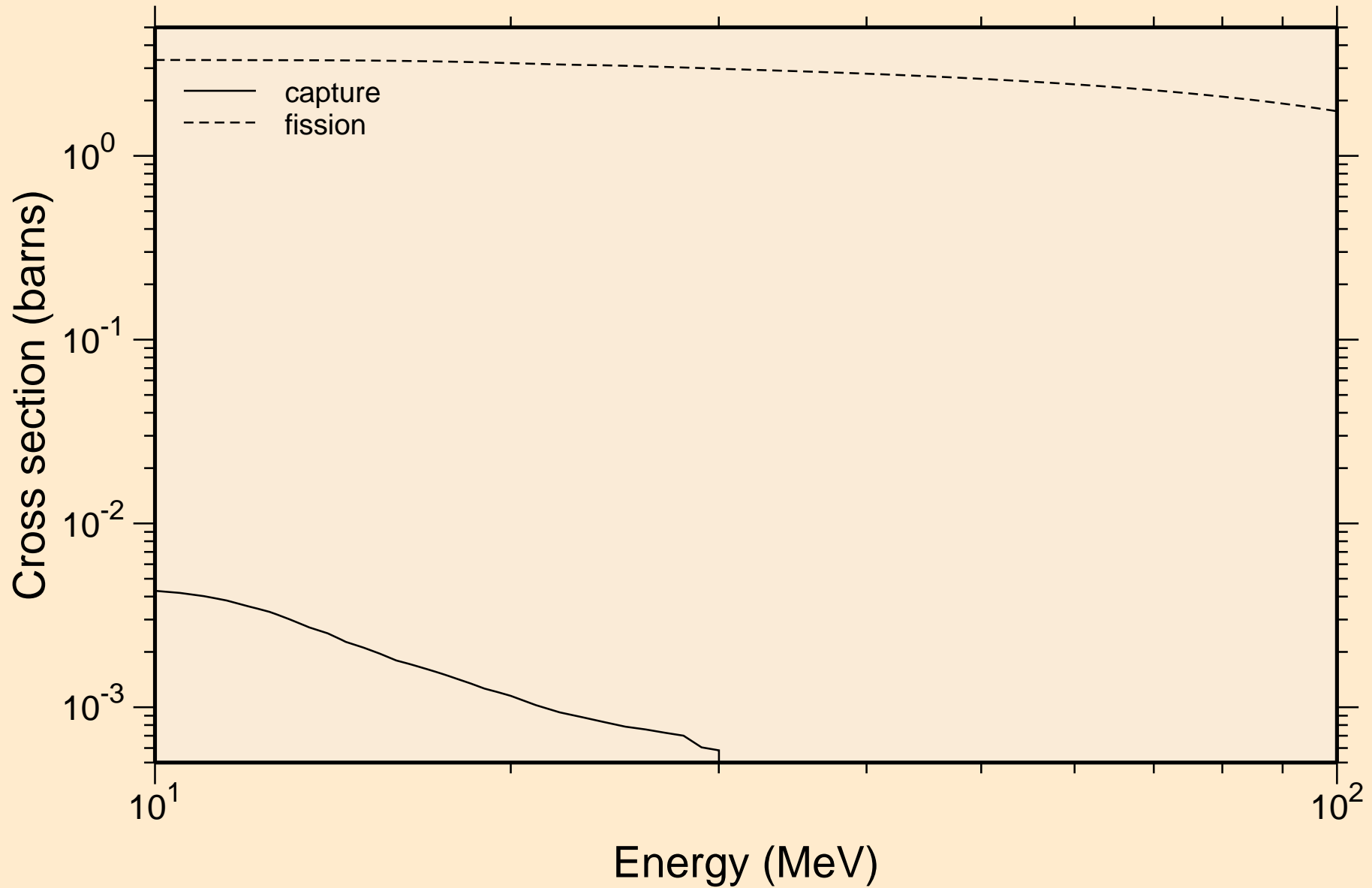


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections

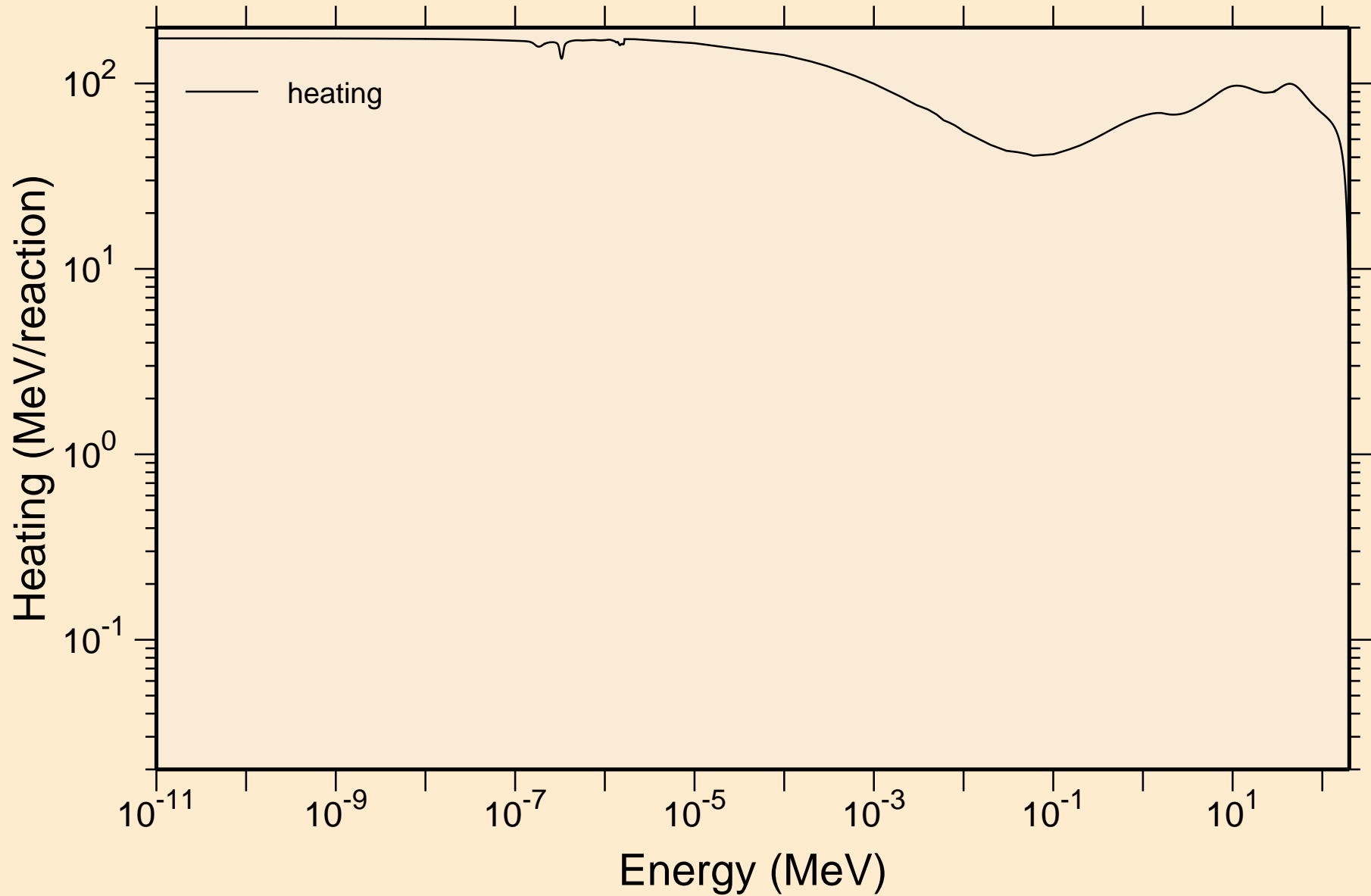




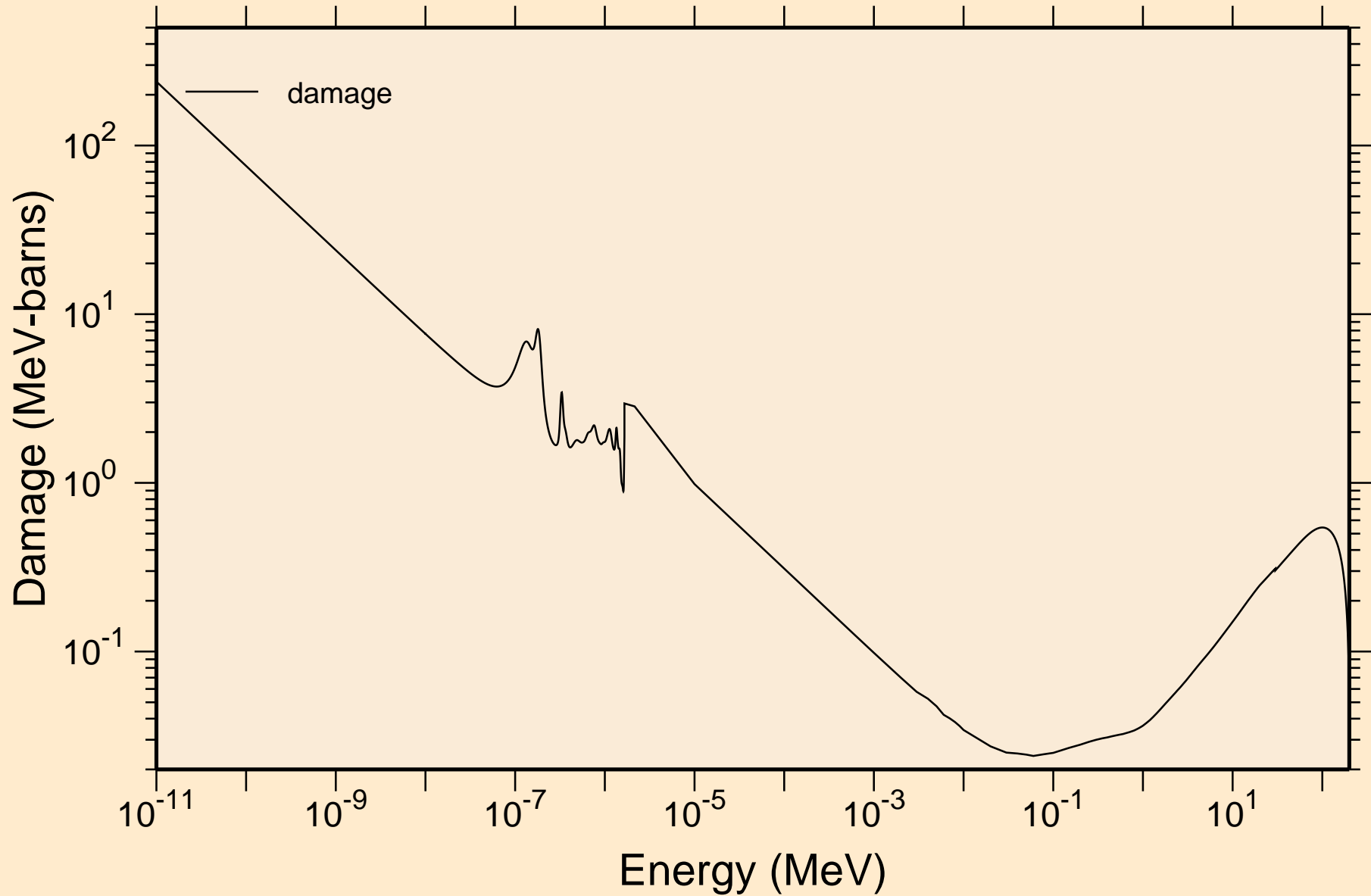
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
resonance absorption cross sections



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Heating

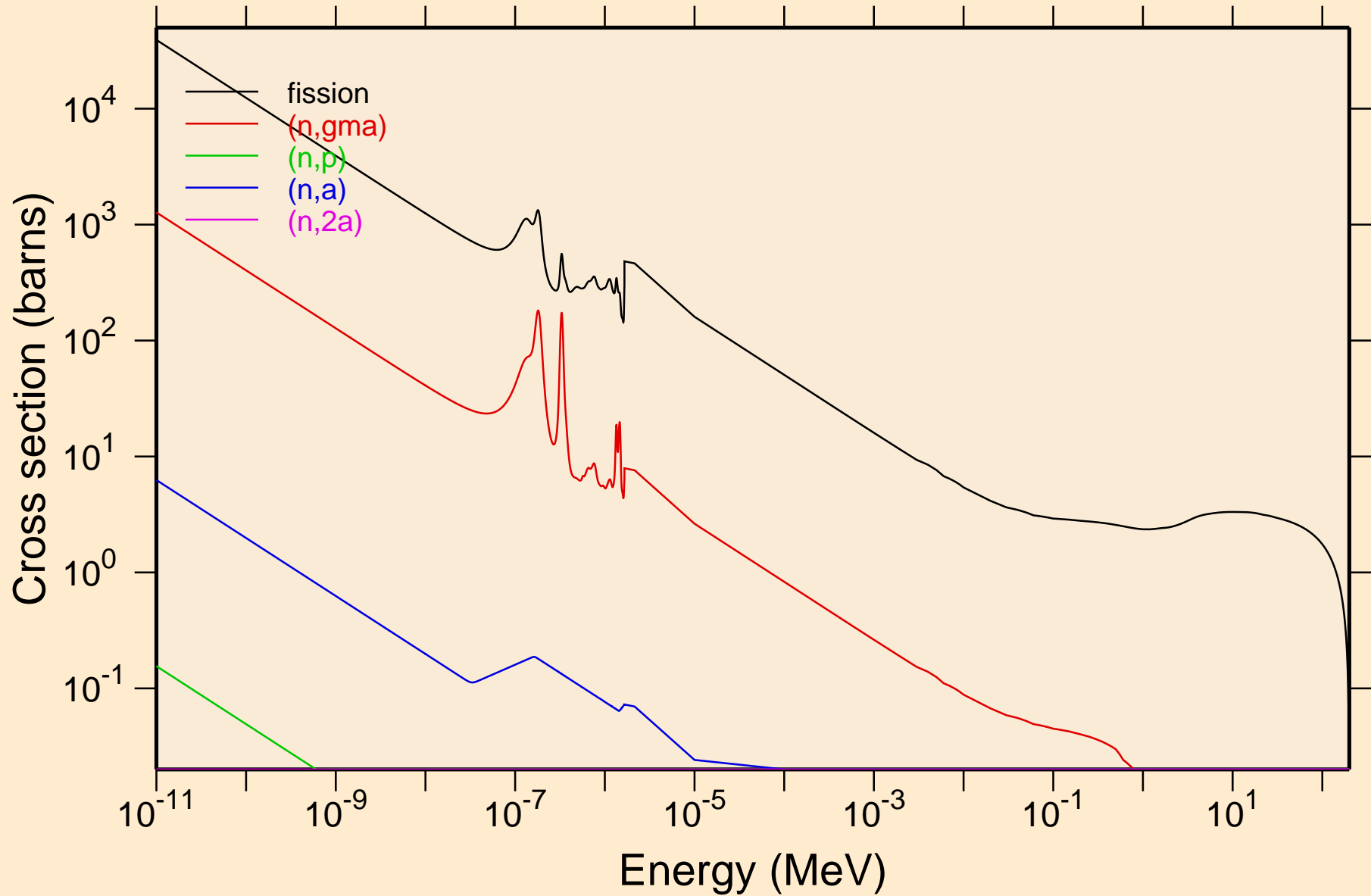


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage

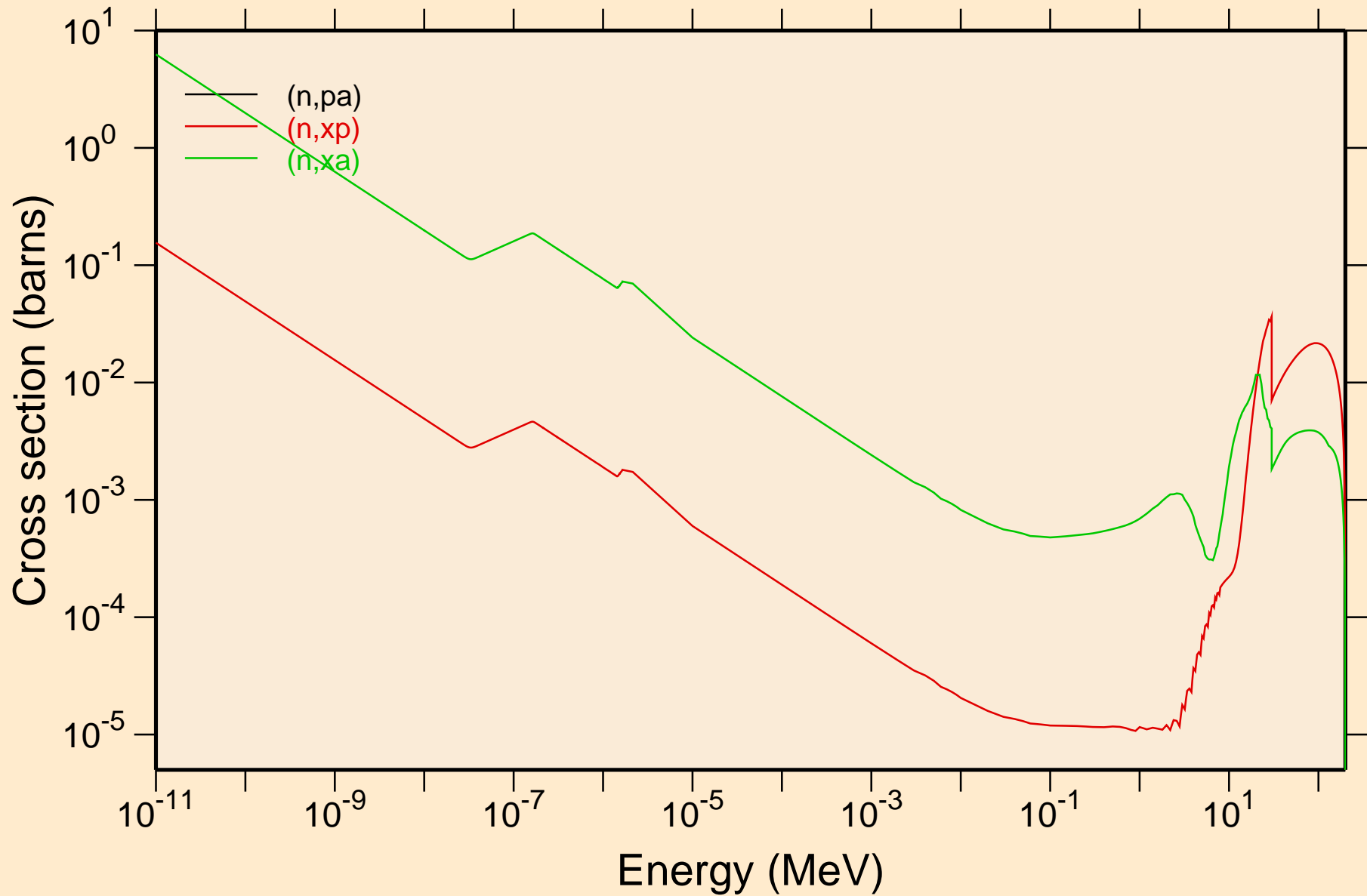


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Non-threshold reactions

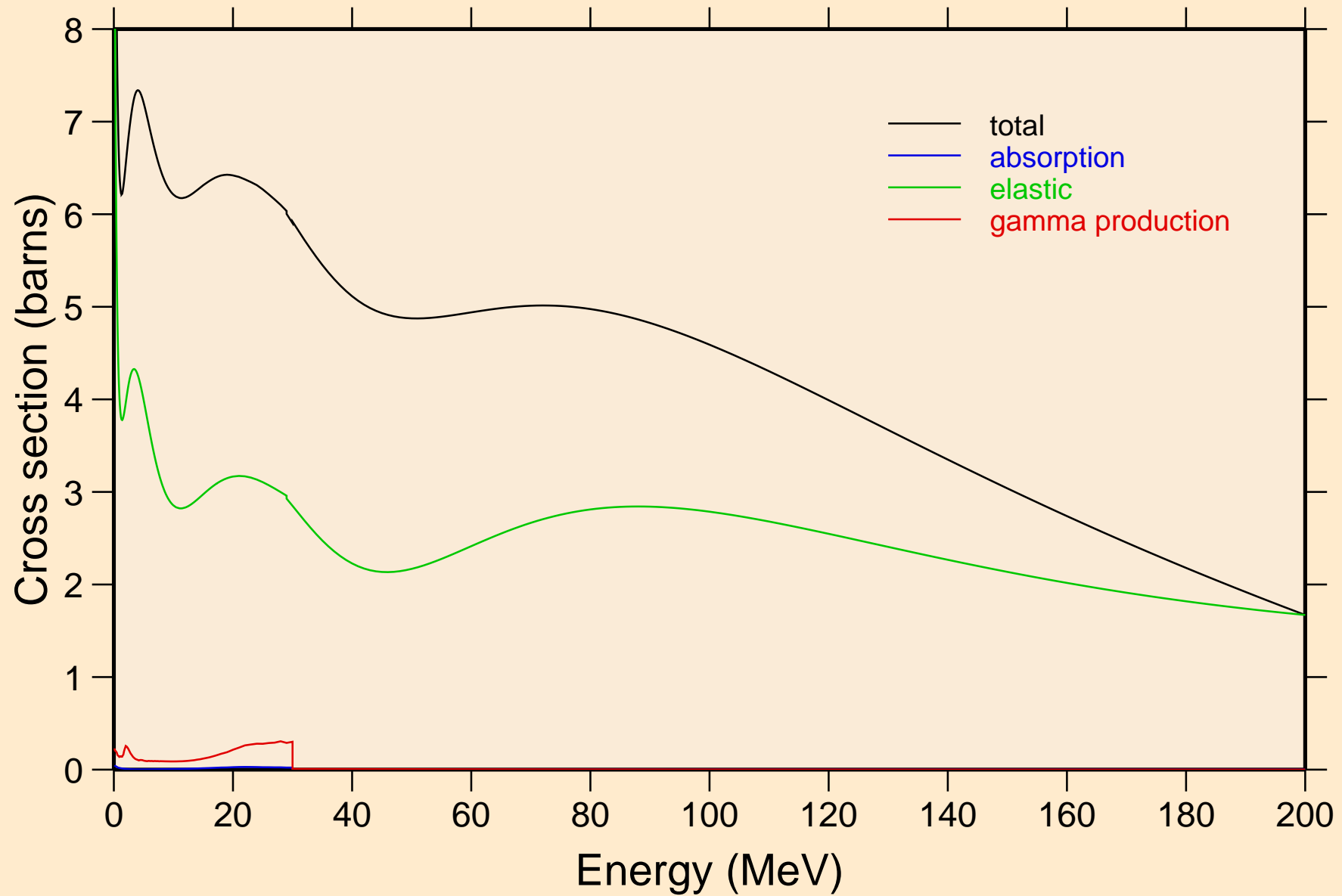


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions



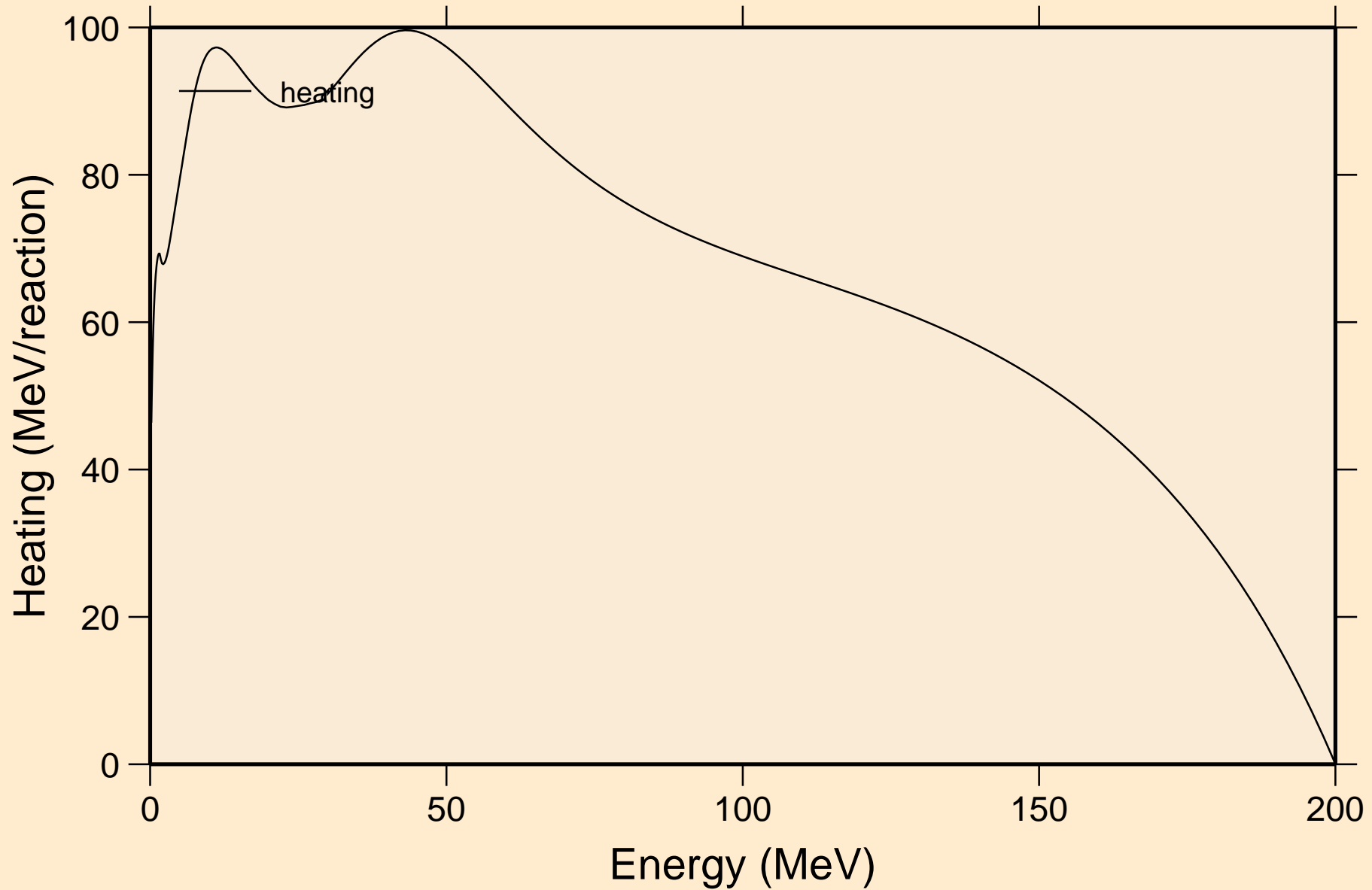
# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Principal cross sections

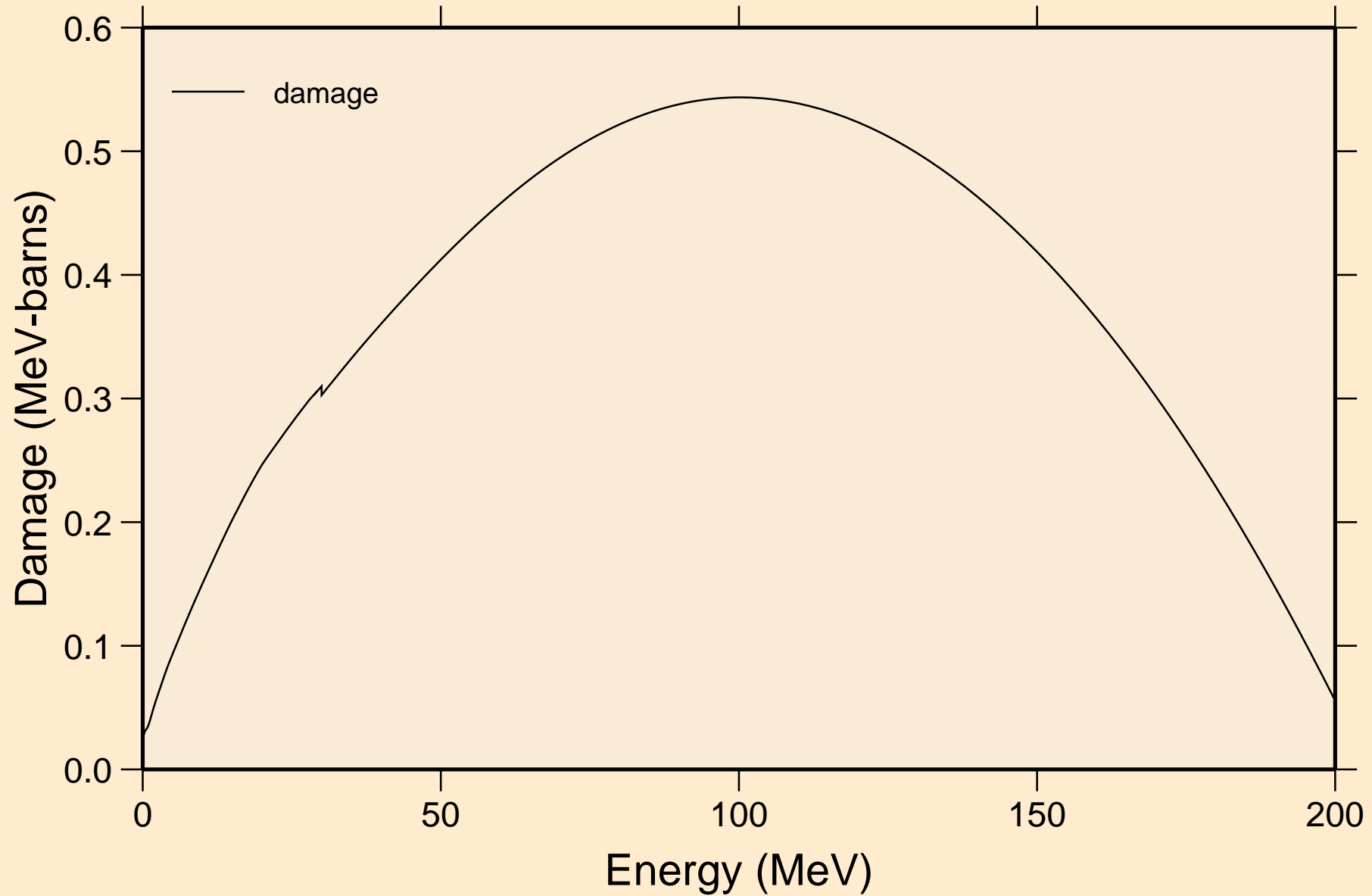


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

Heating



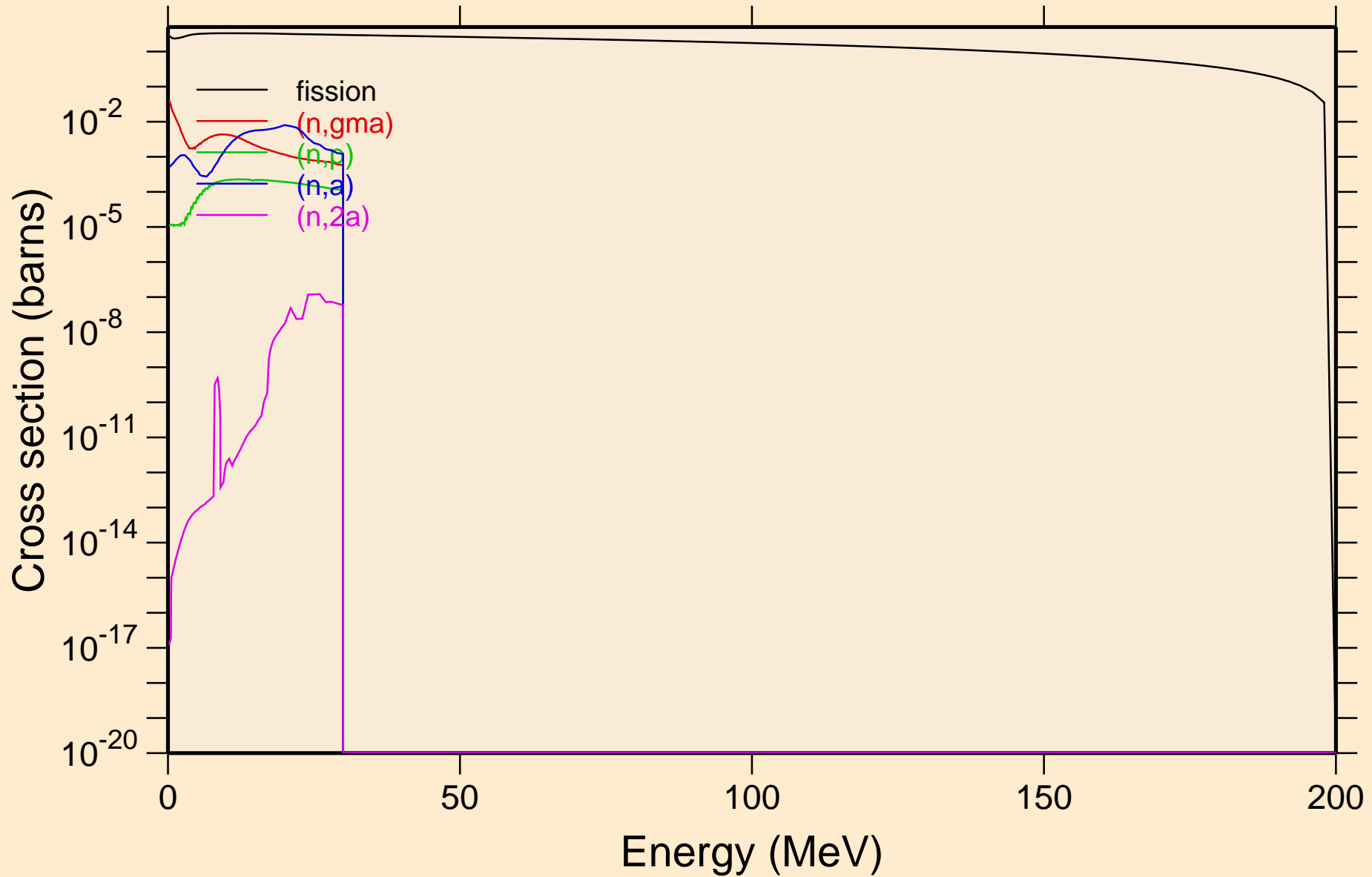
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Damage



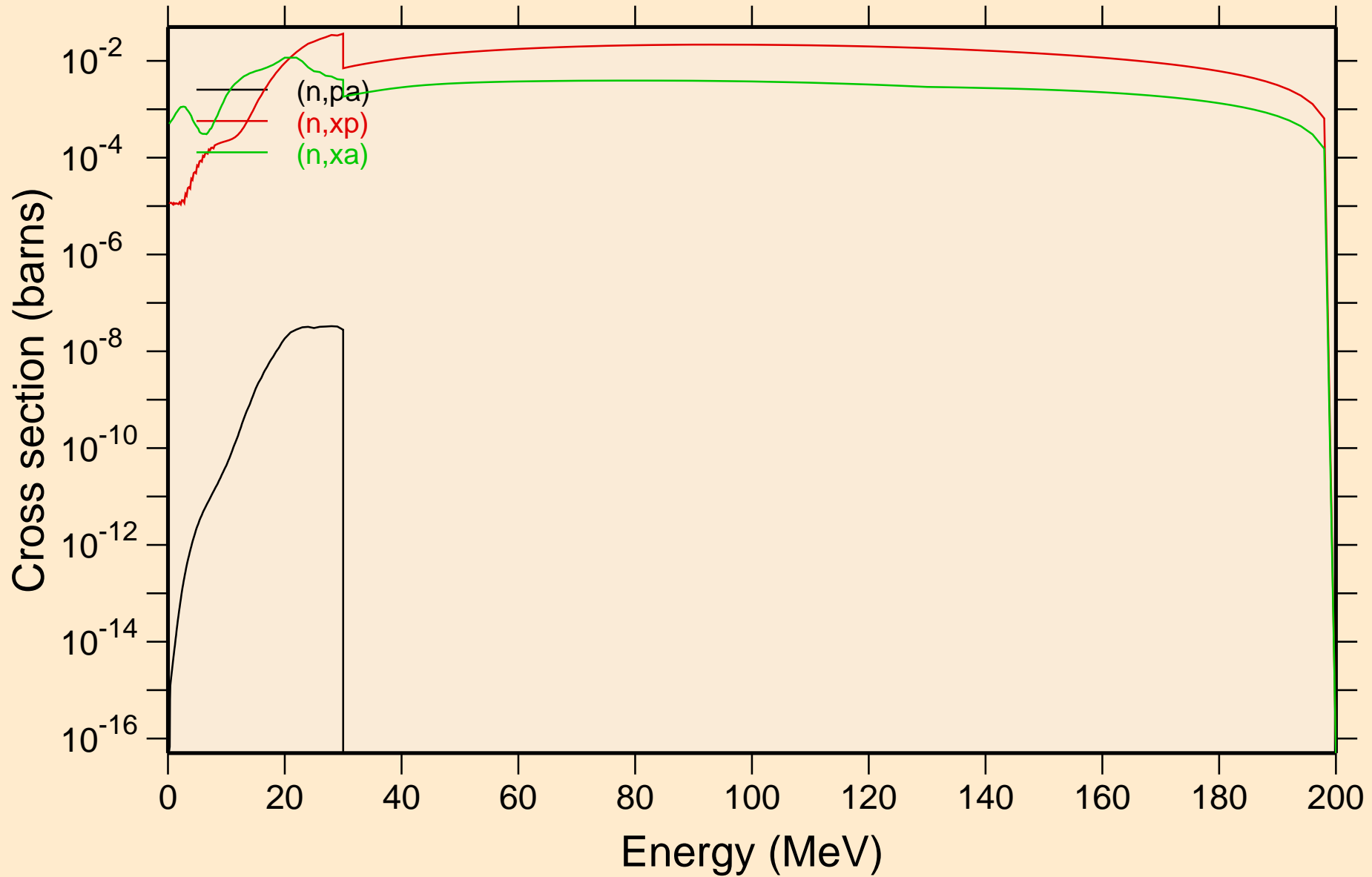


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

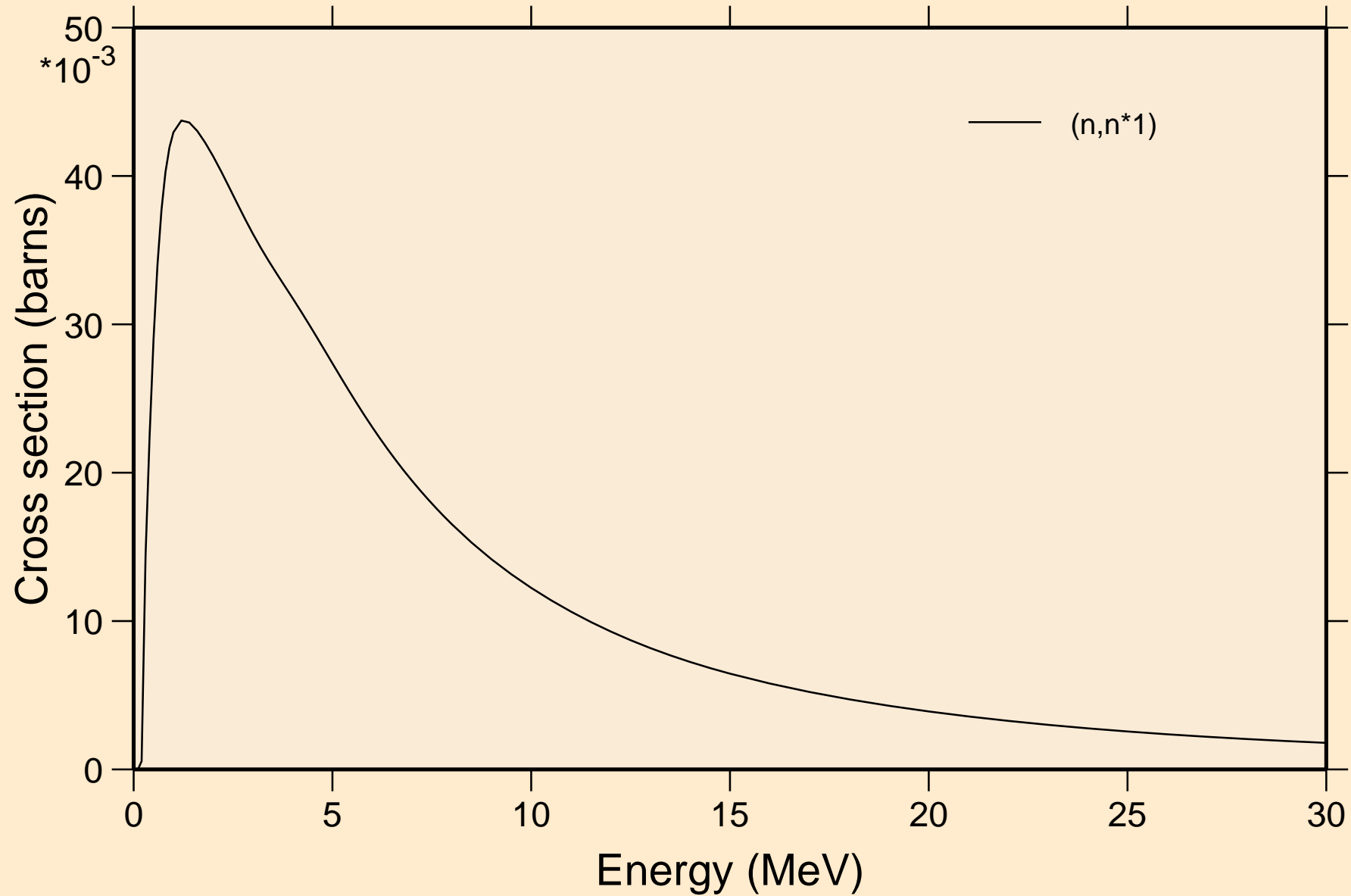
## Non-threshold reactions



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Non-threshold reactions

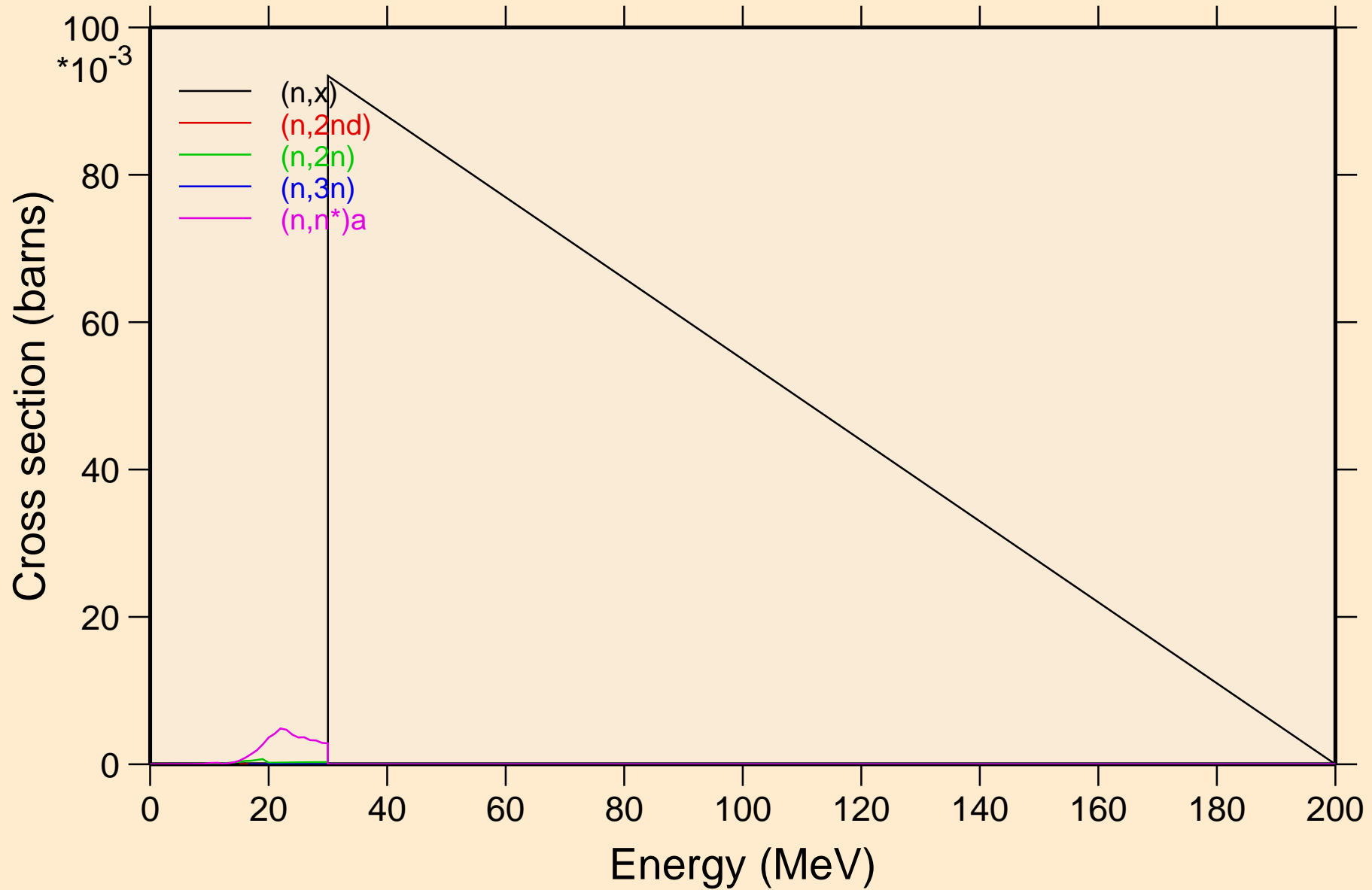


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Inelastic levels

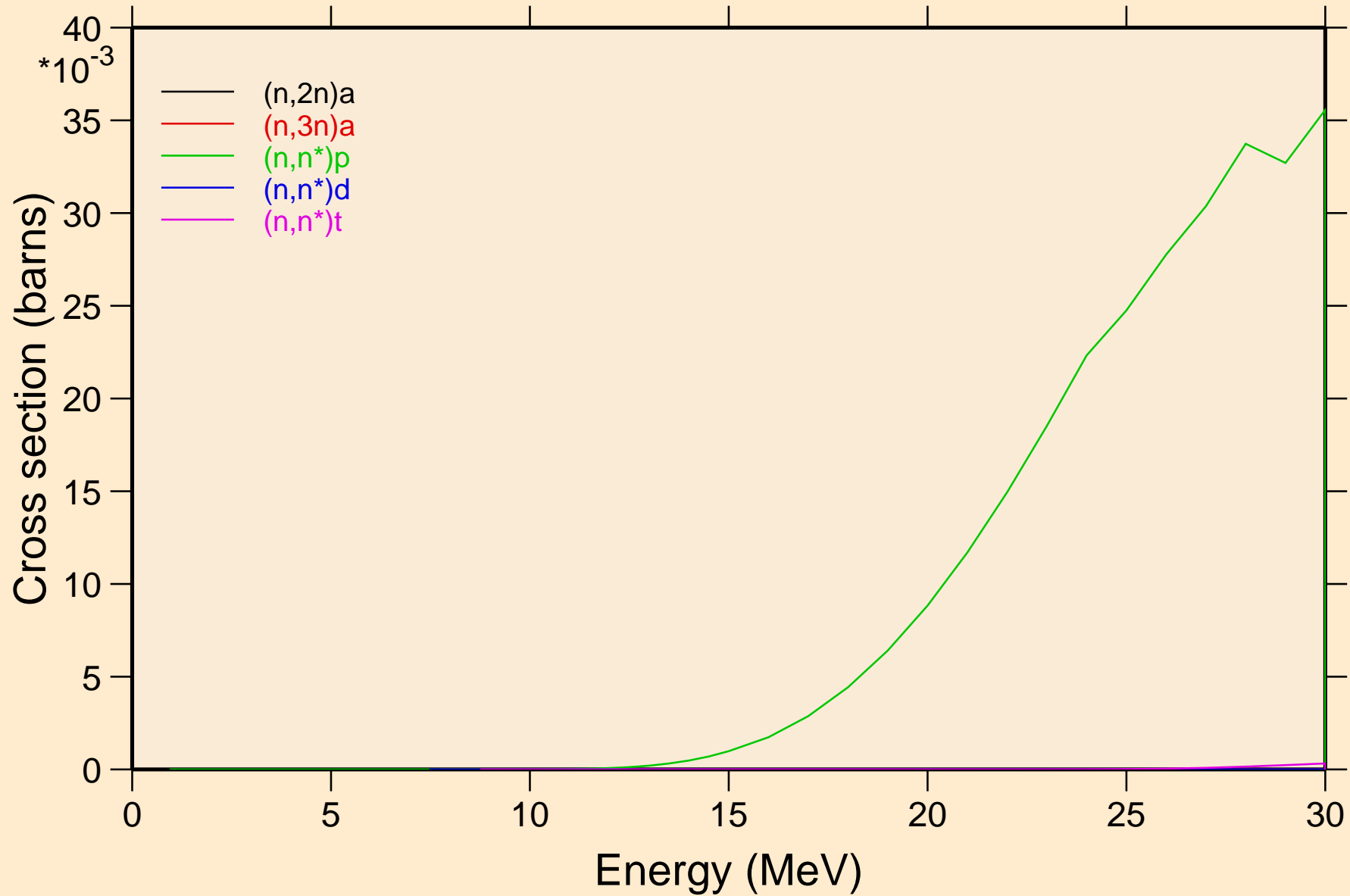


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

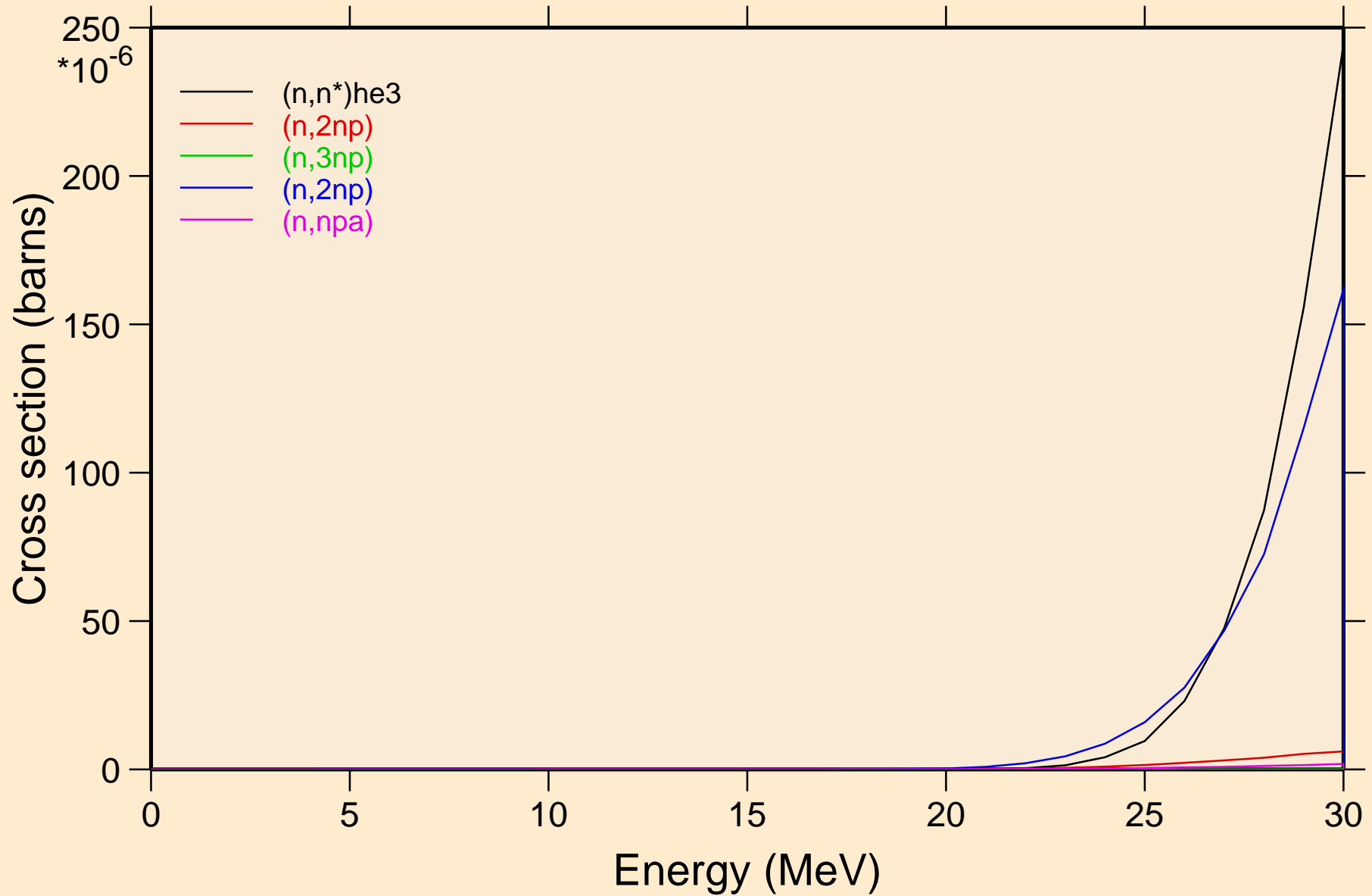


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



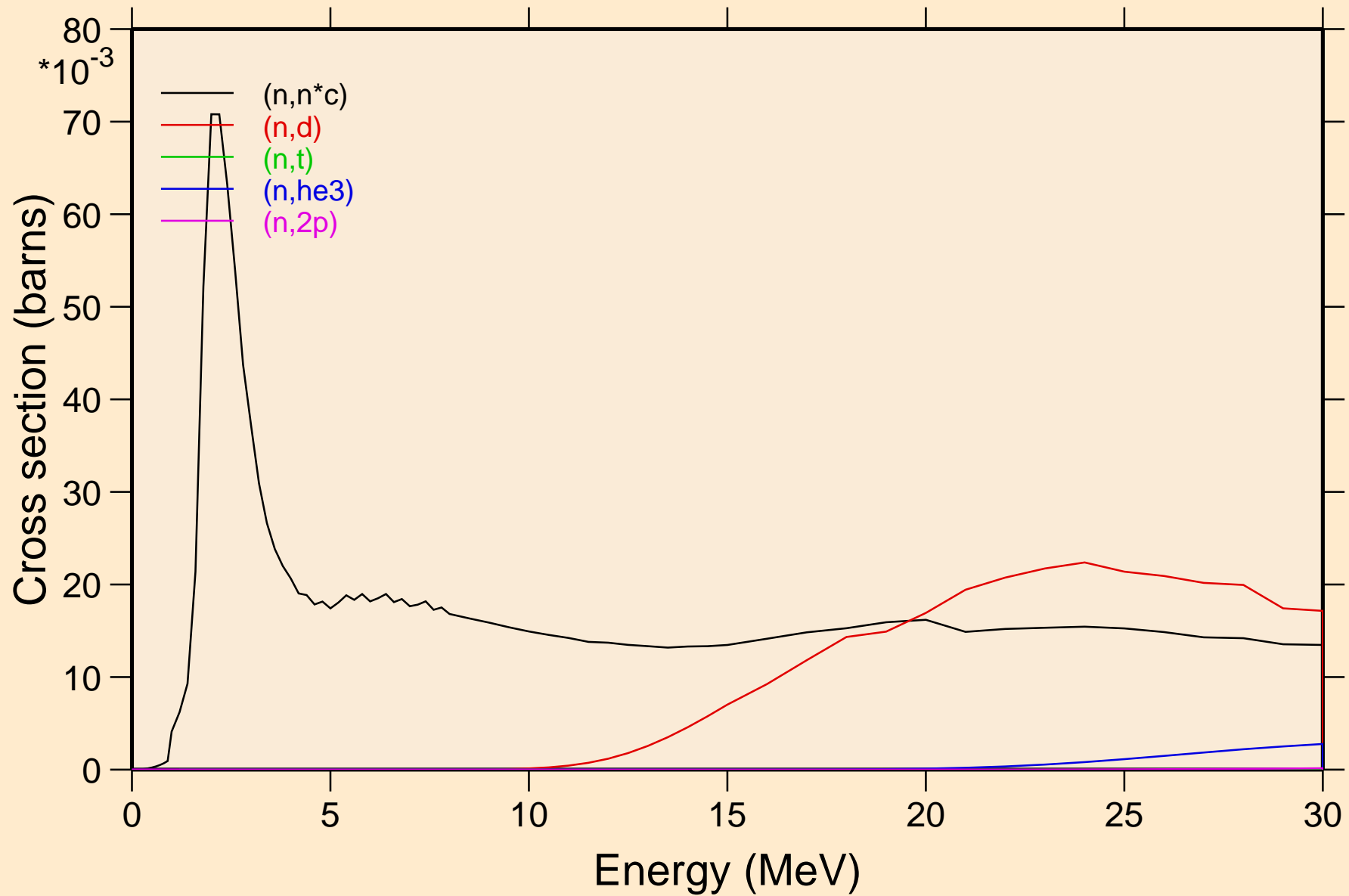
# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

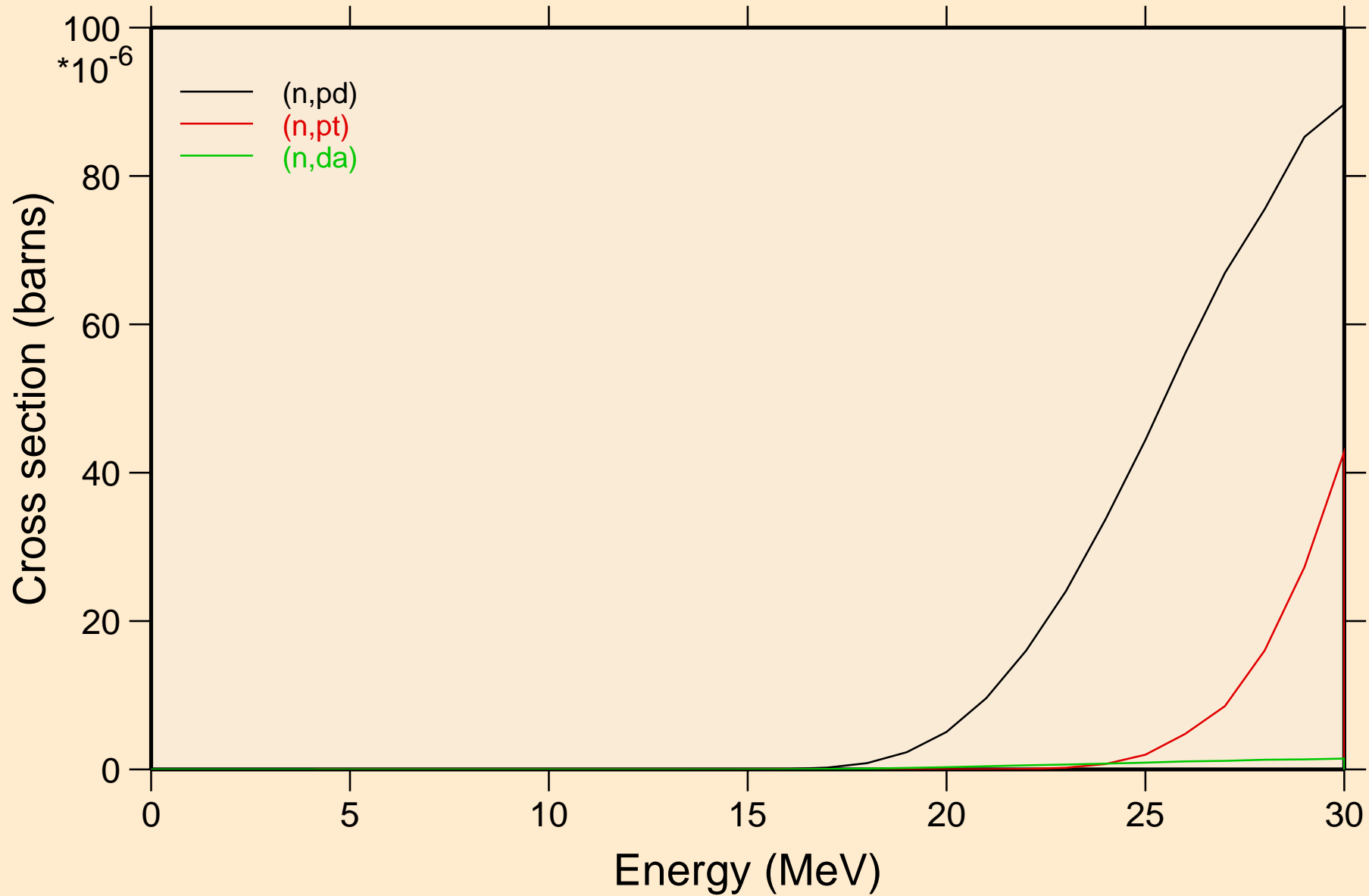


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Threshold reactions

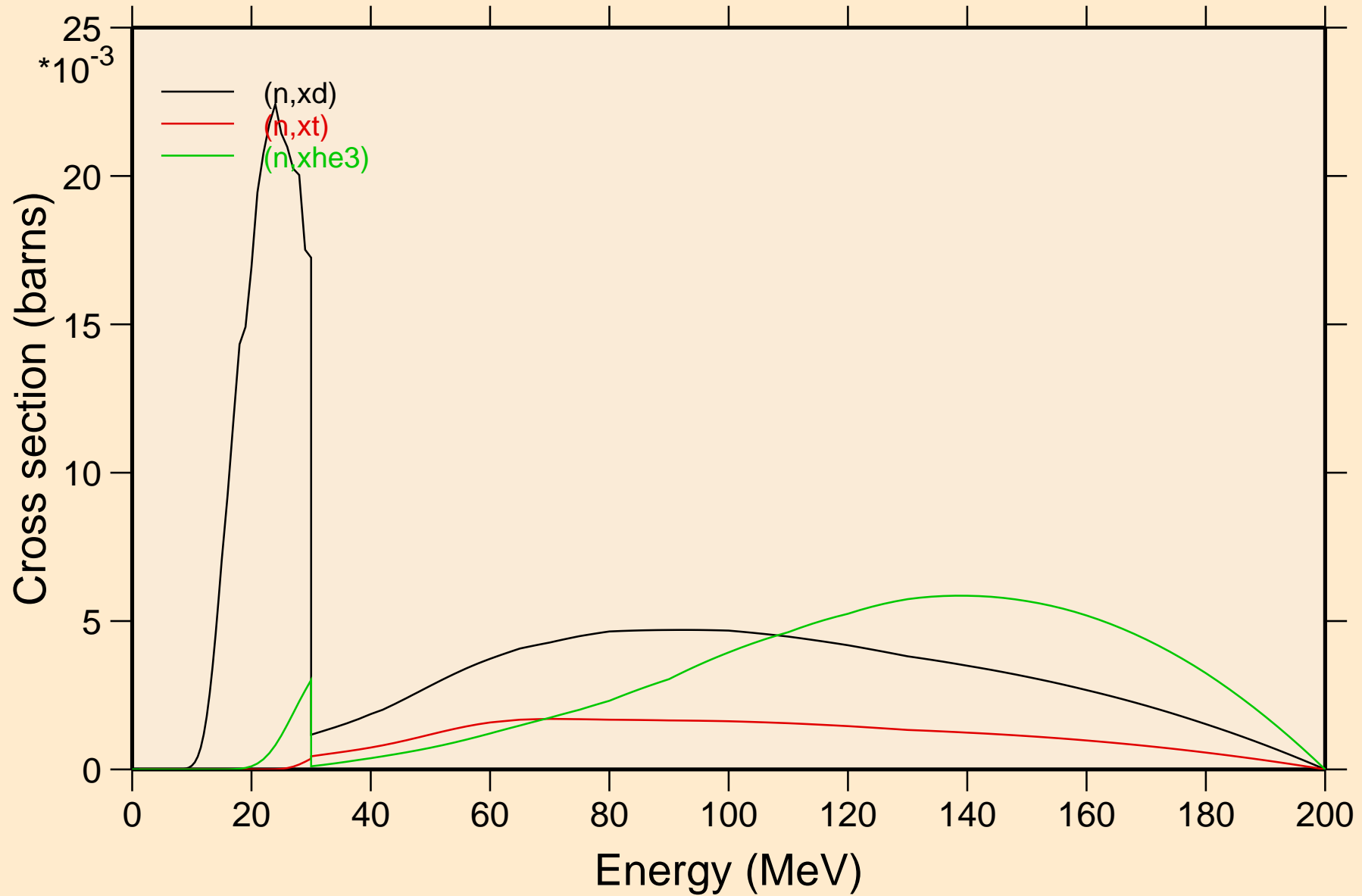


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions

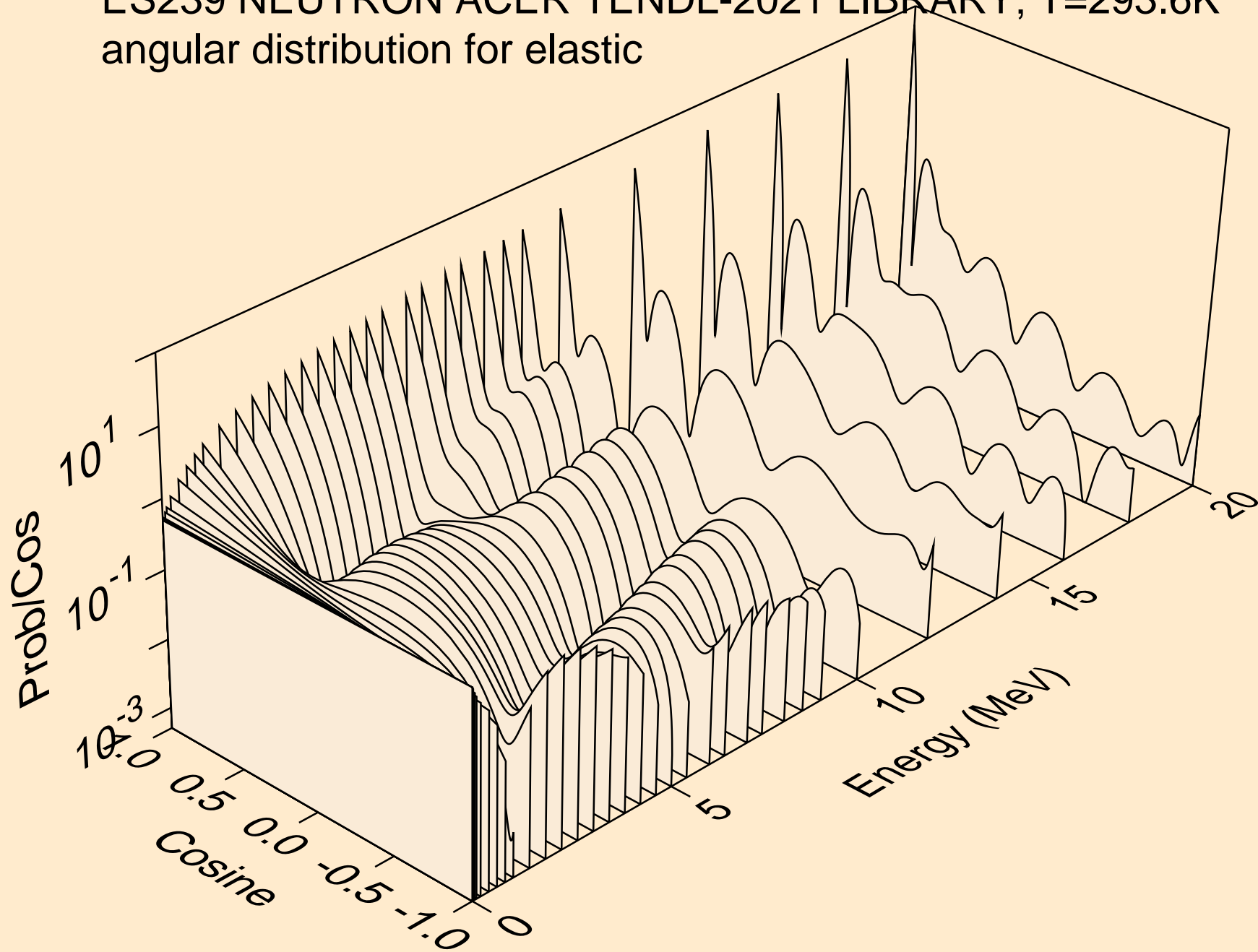




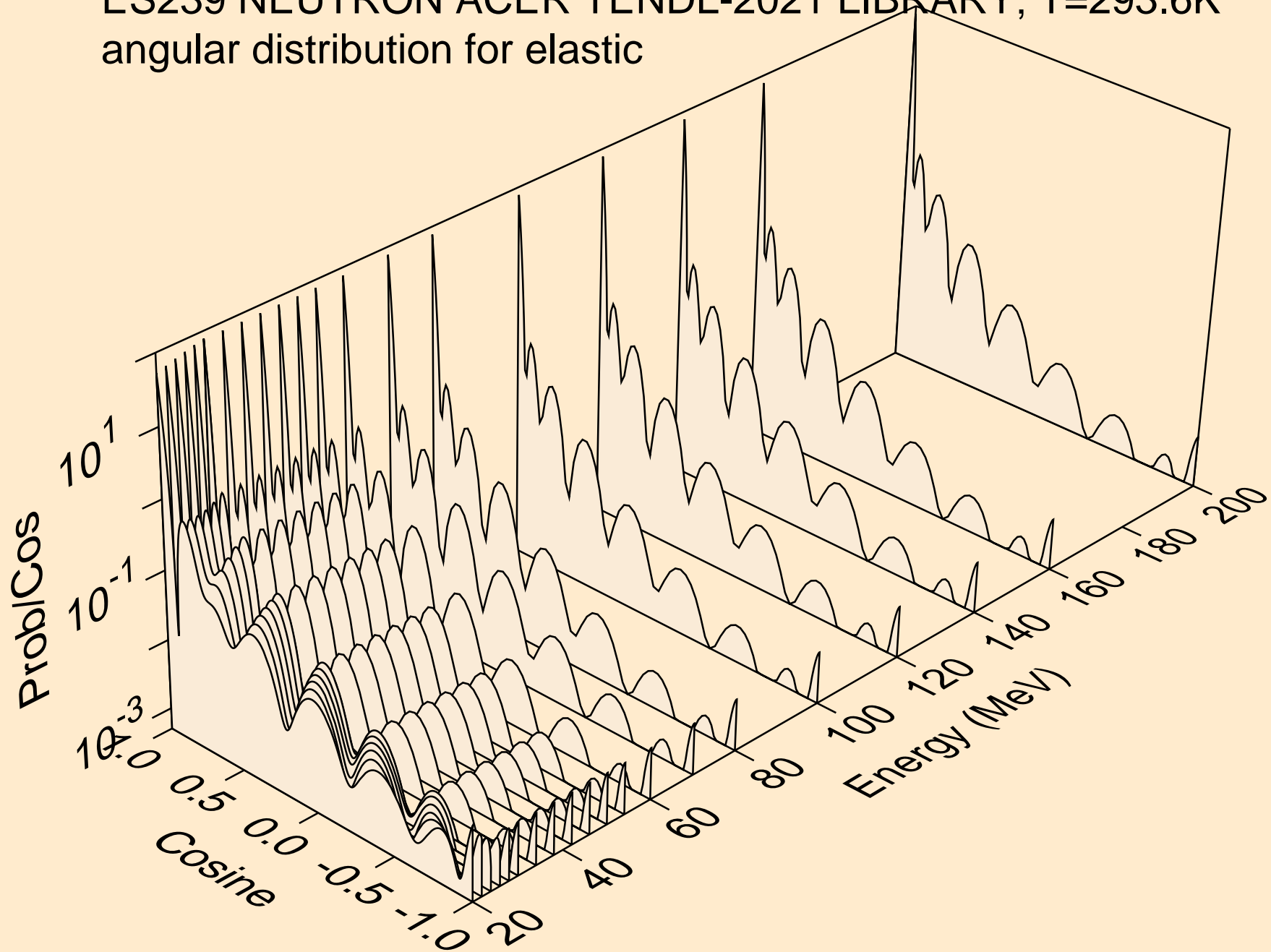
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Threshold reactions



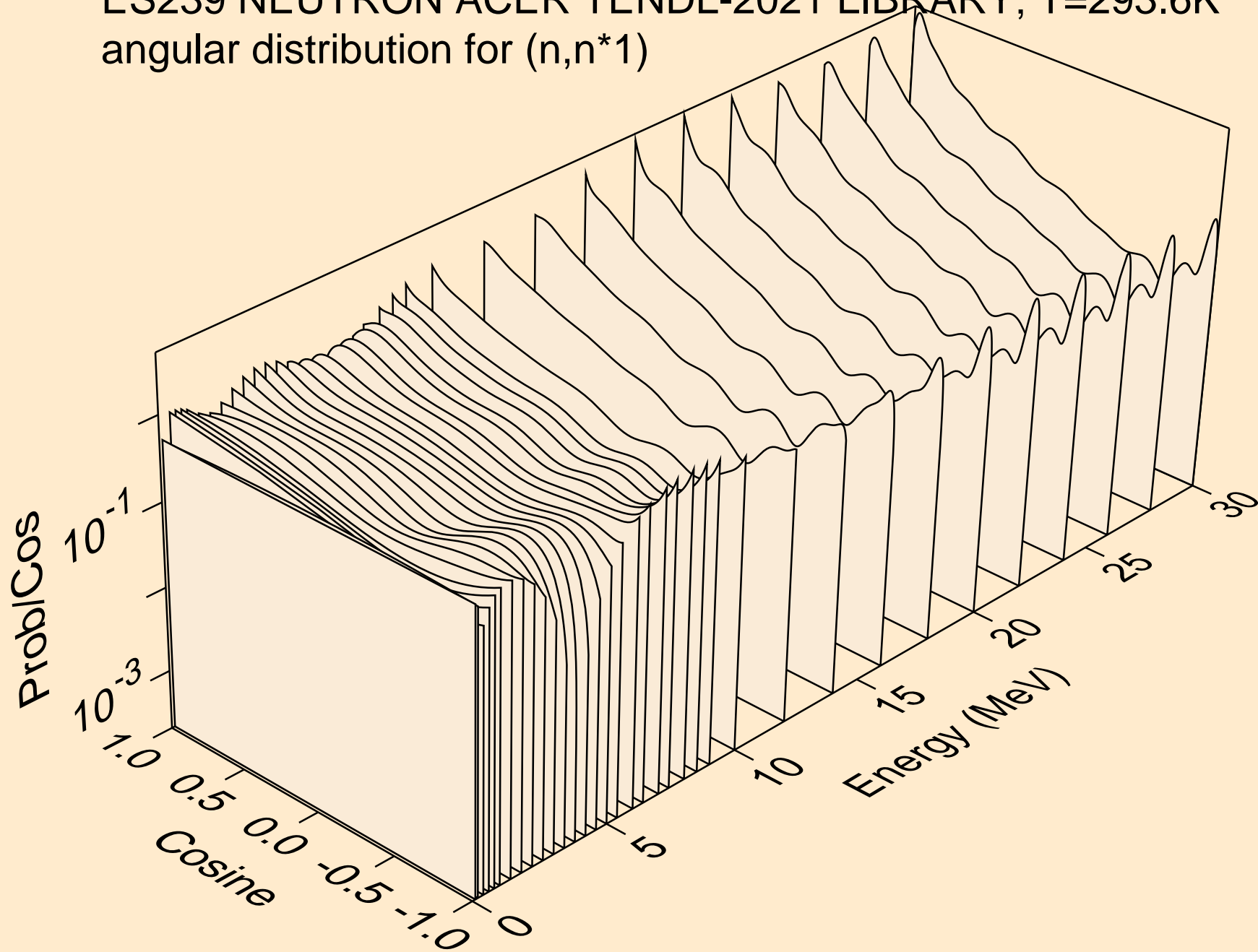
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



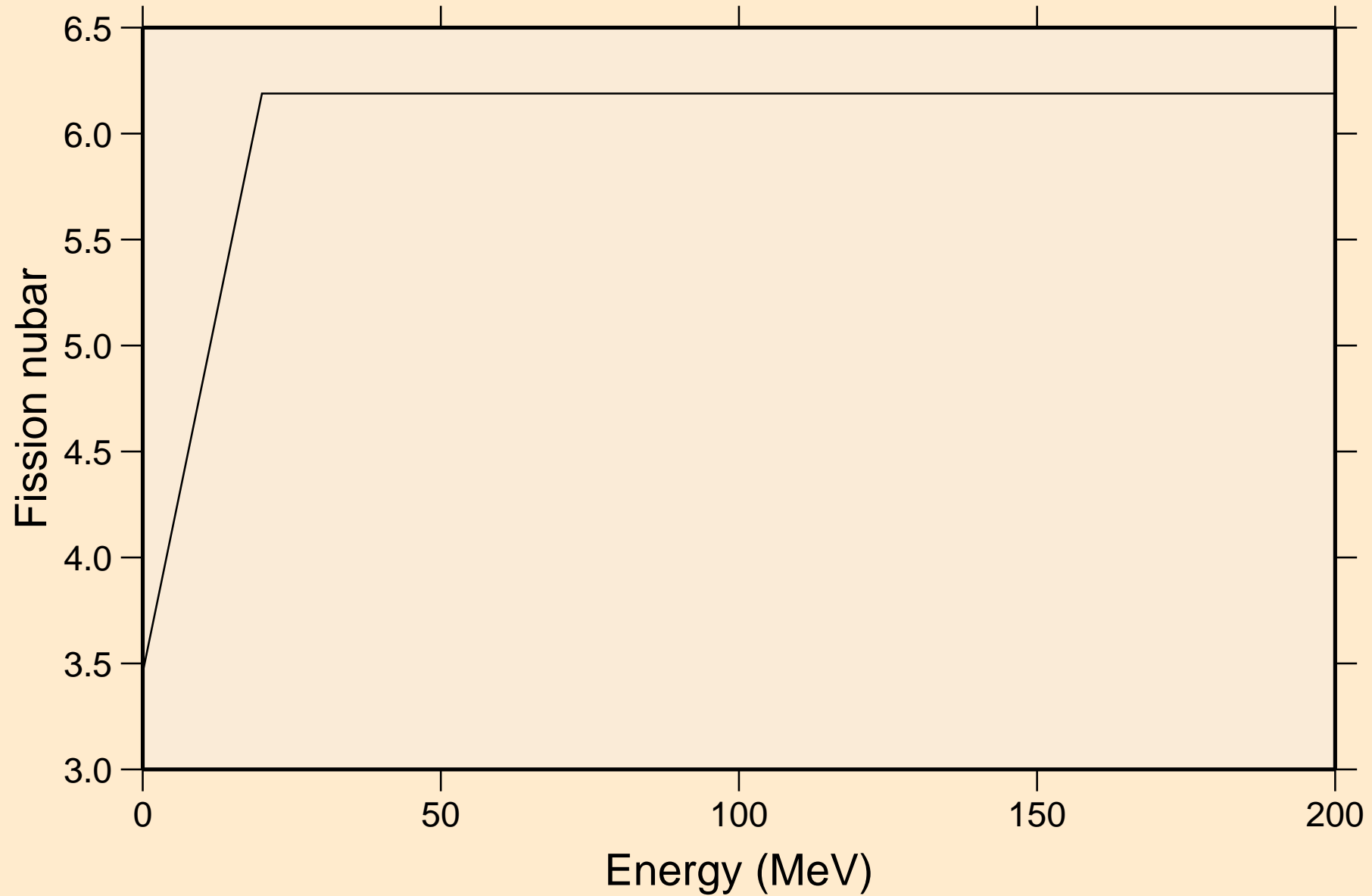
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for elastic



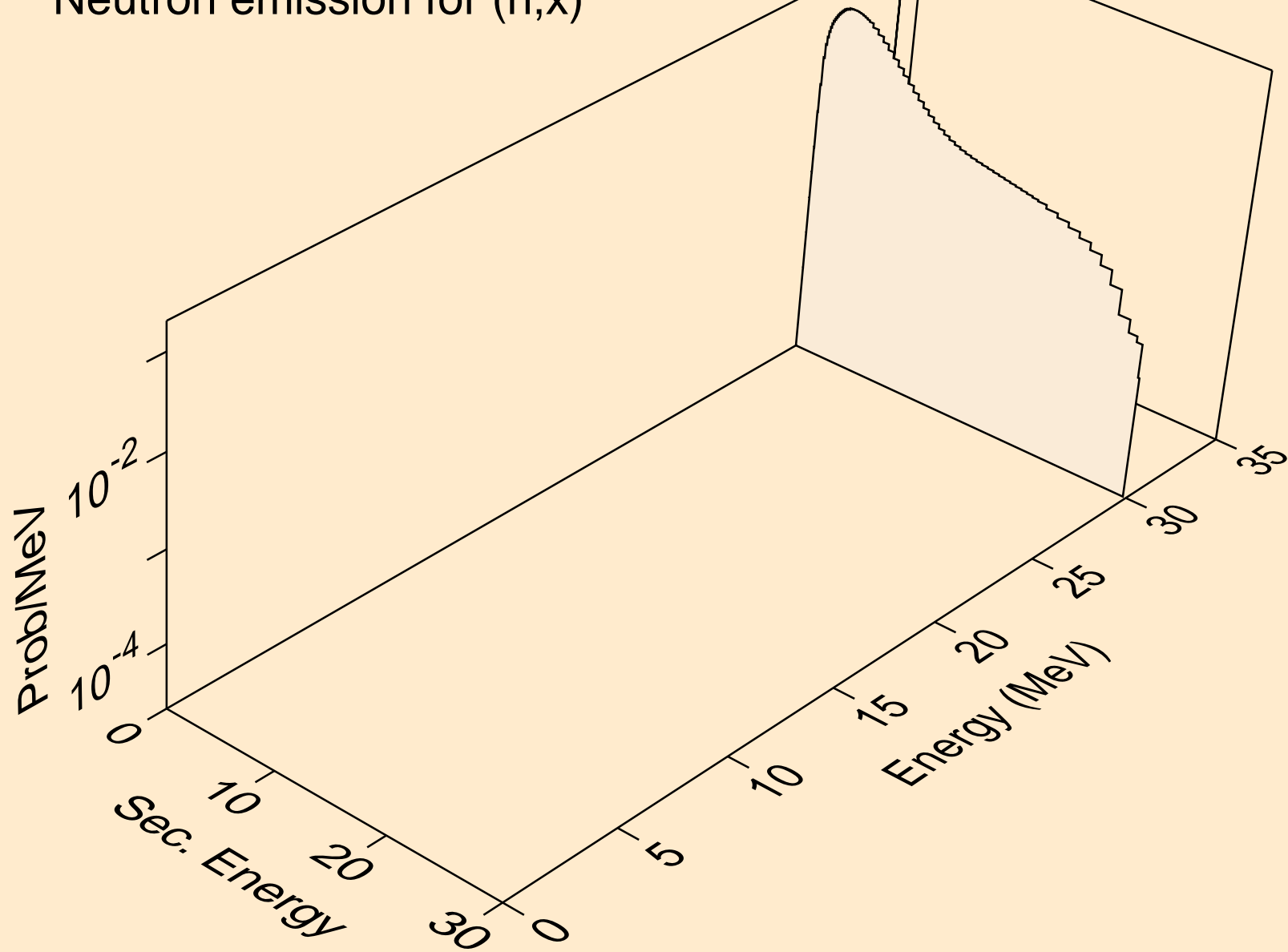
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
angular distribution for (n,n\*1)



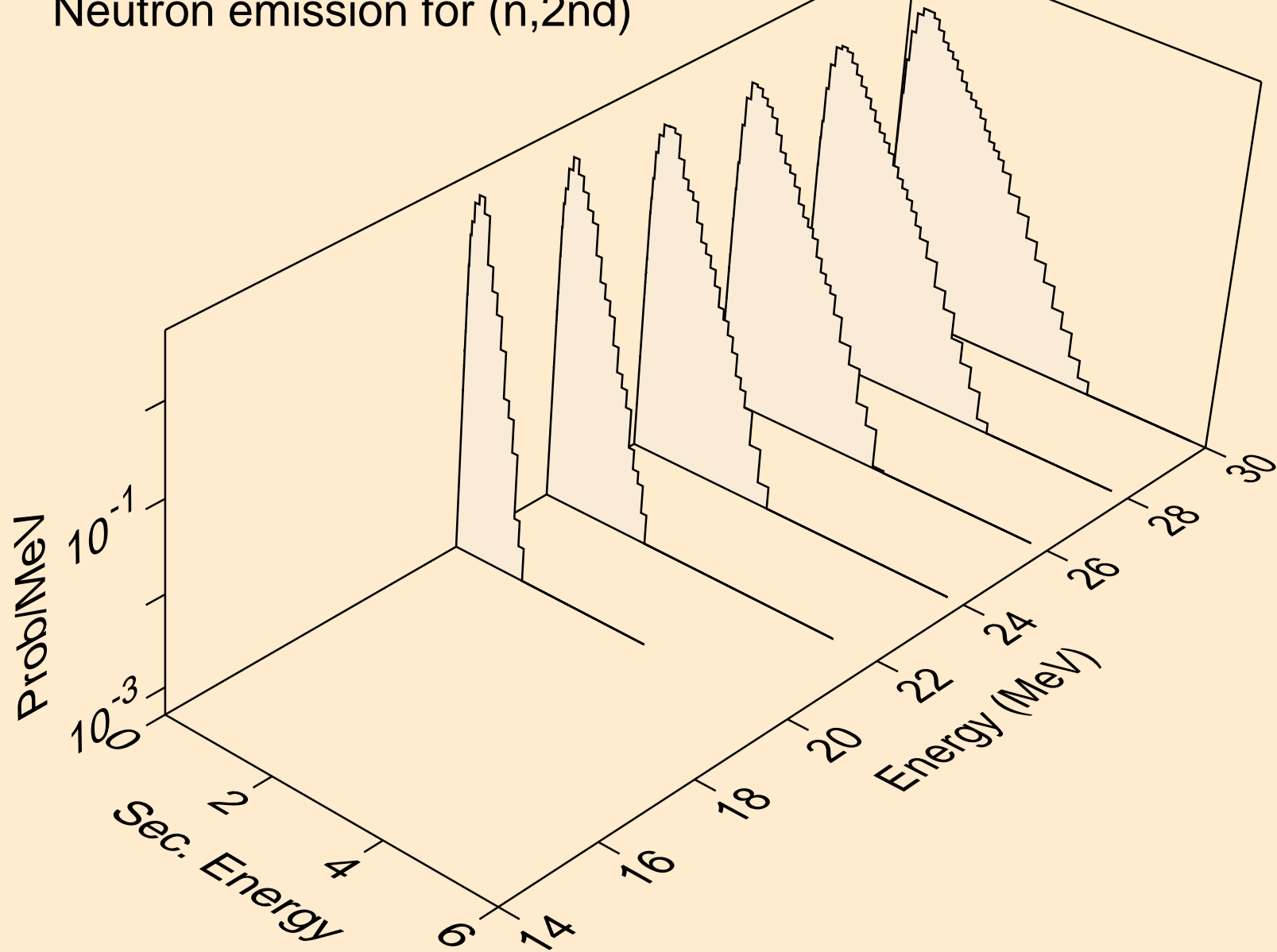
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Total fission nubar



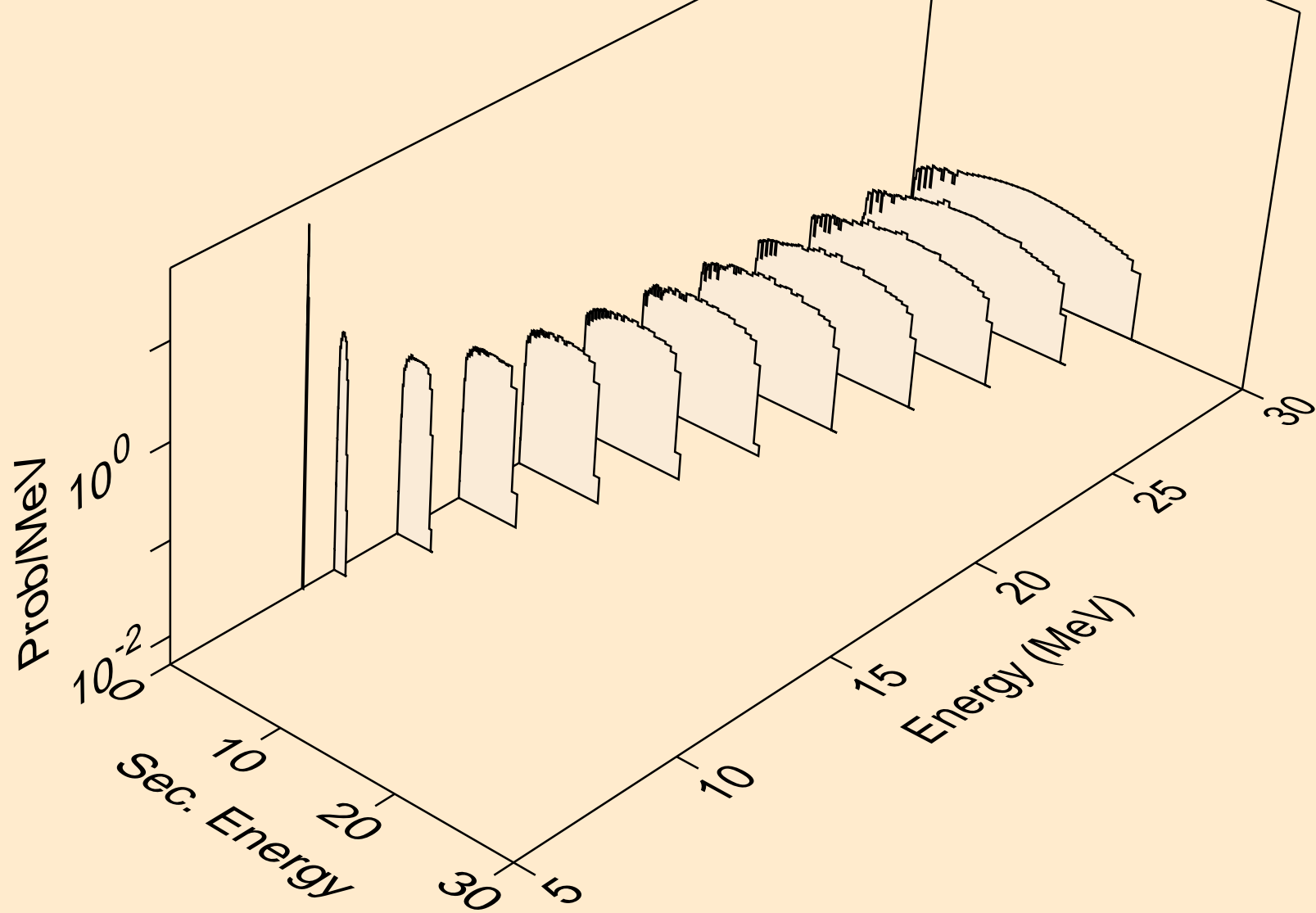
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,x)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2nd)

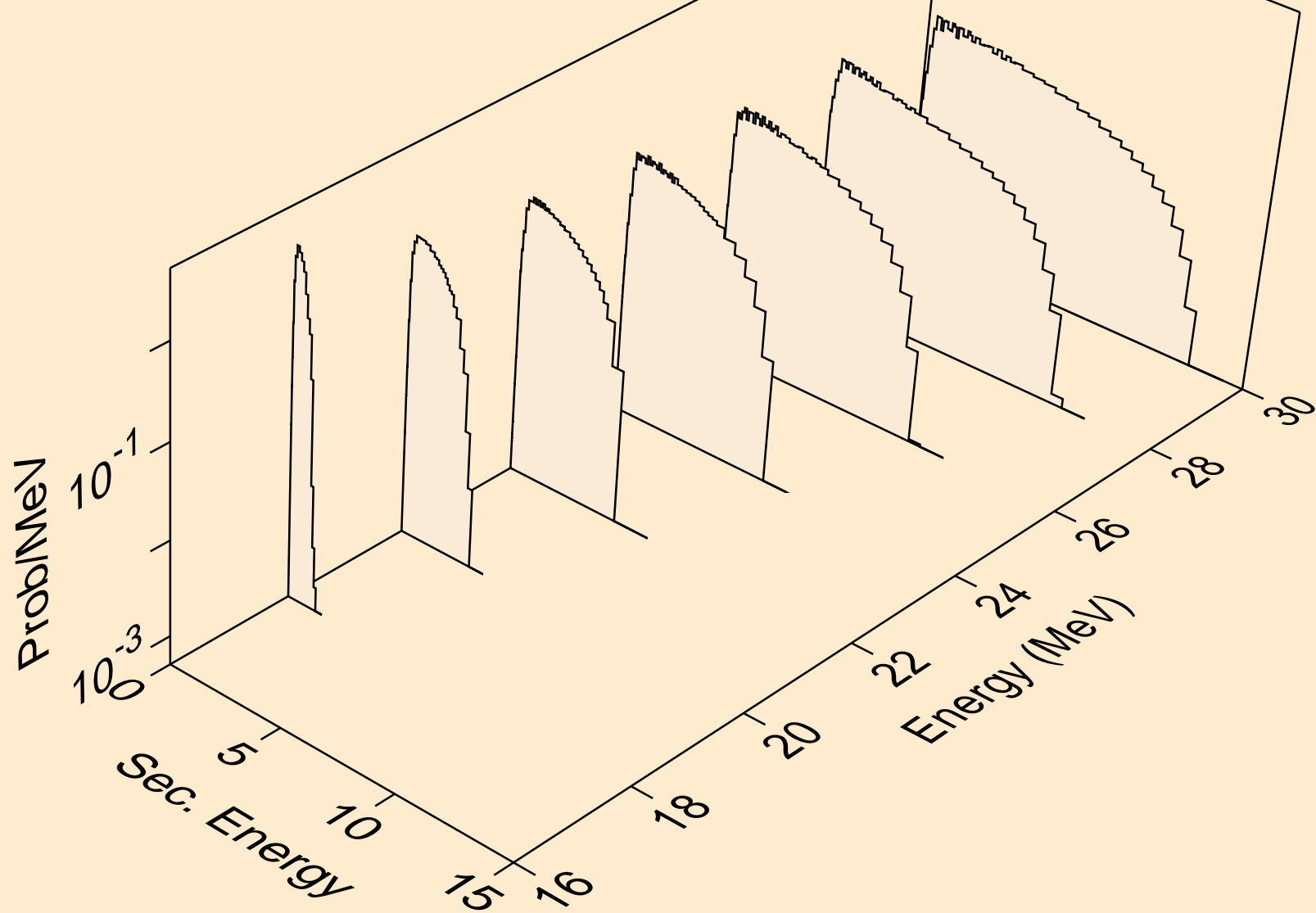


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)

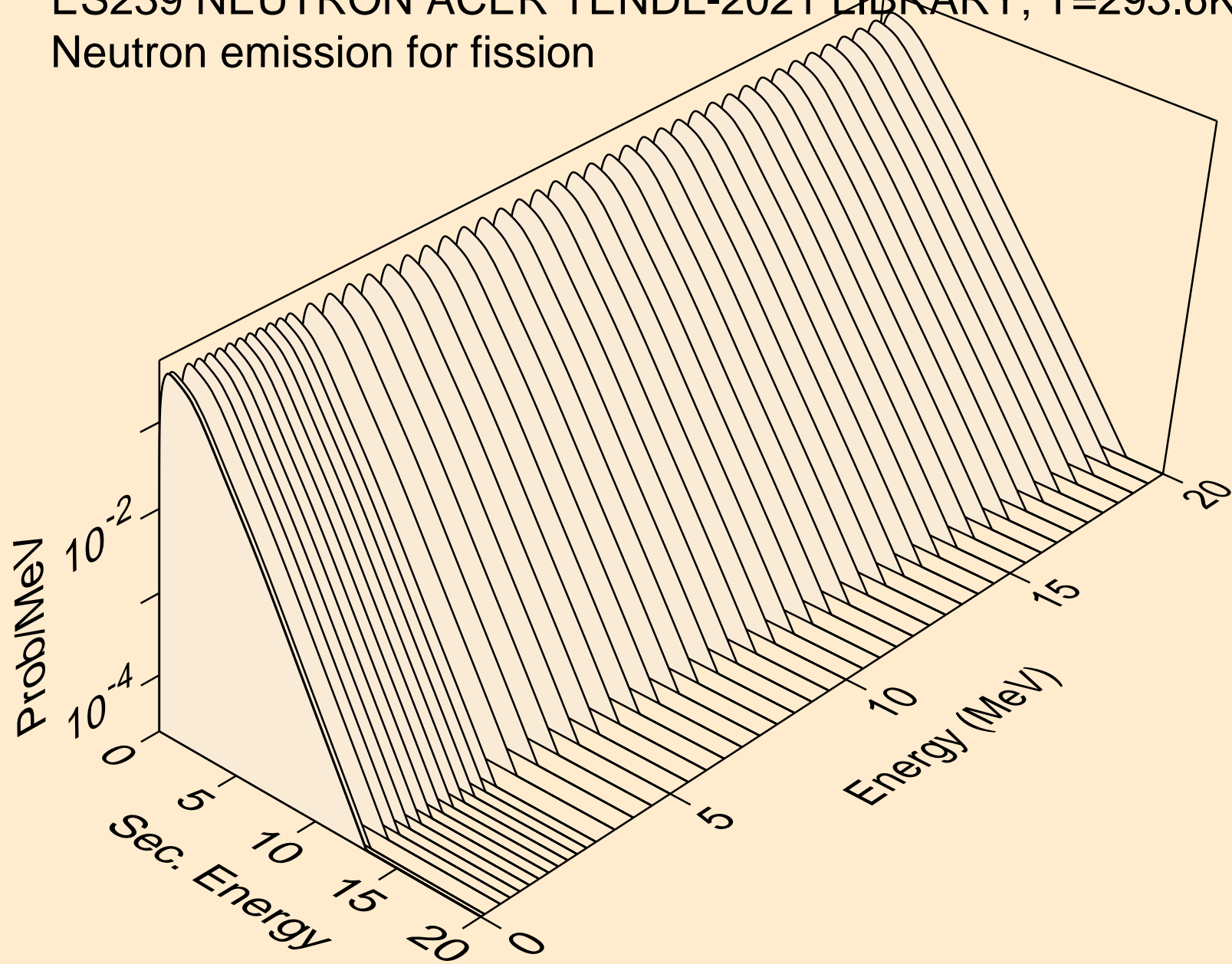




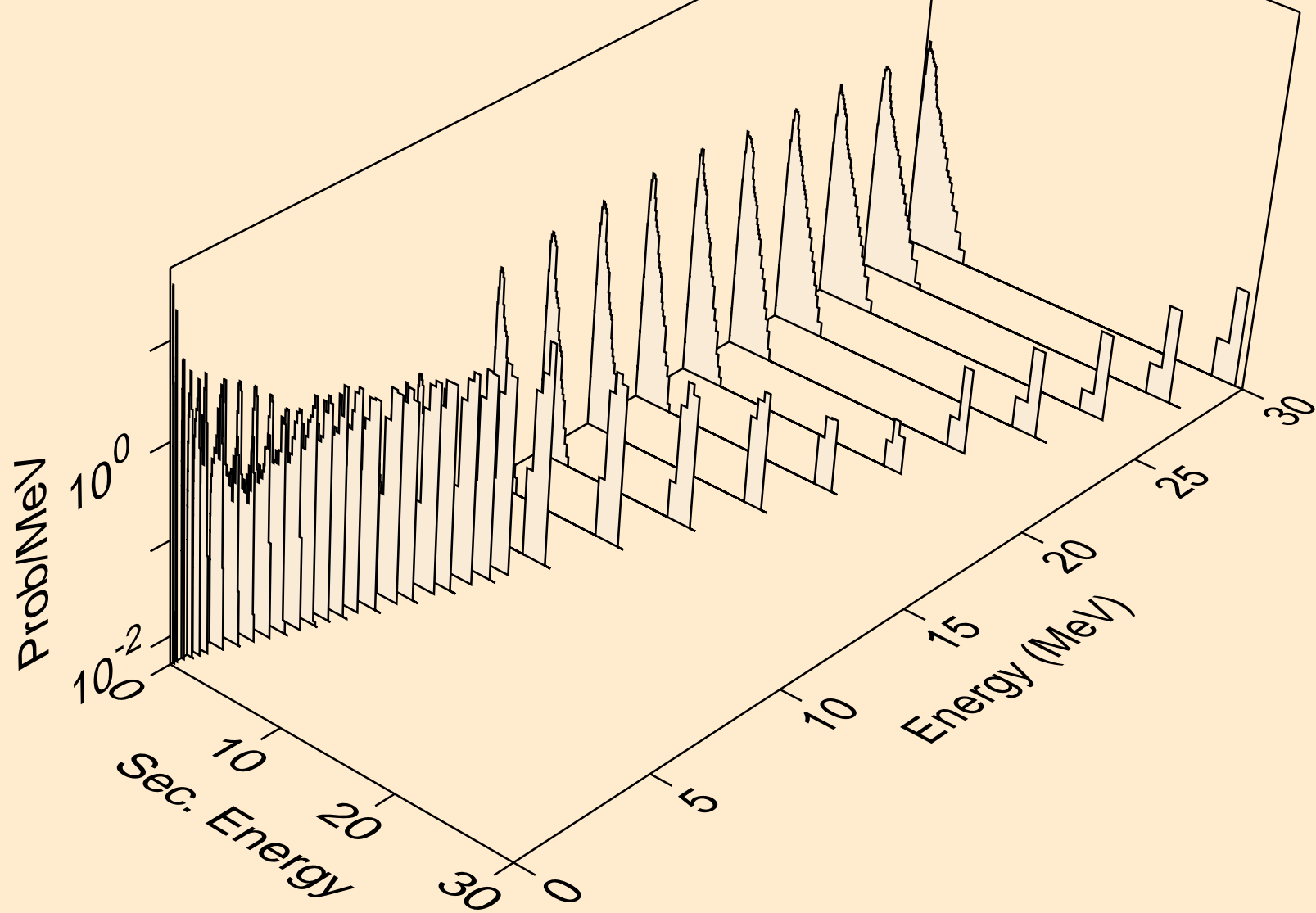
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)



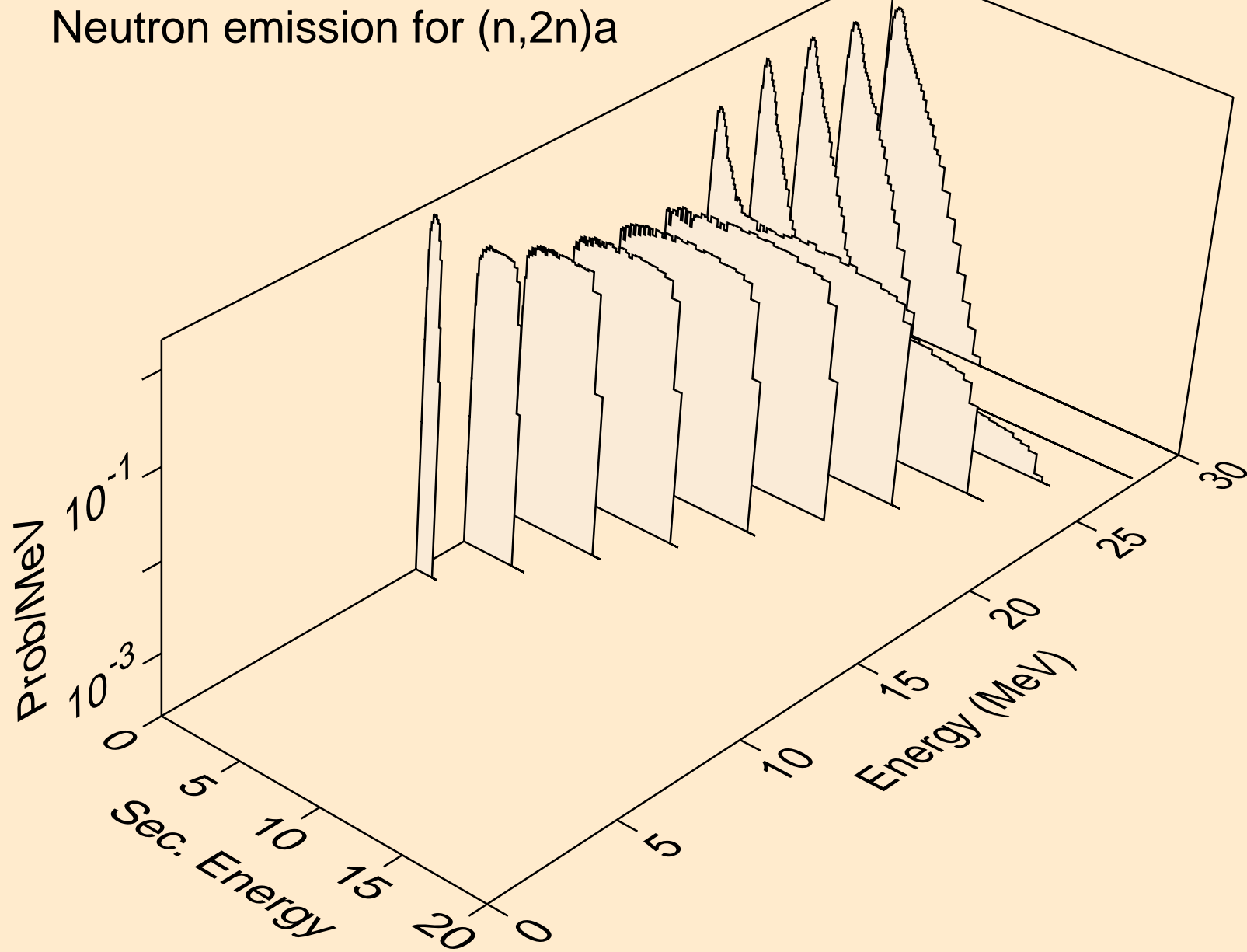
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for fission



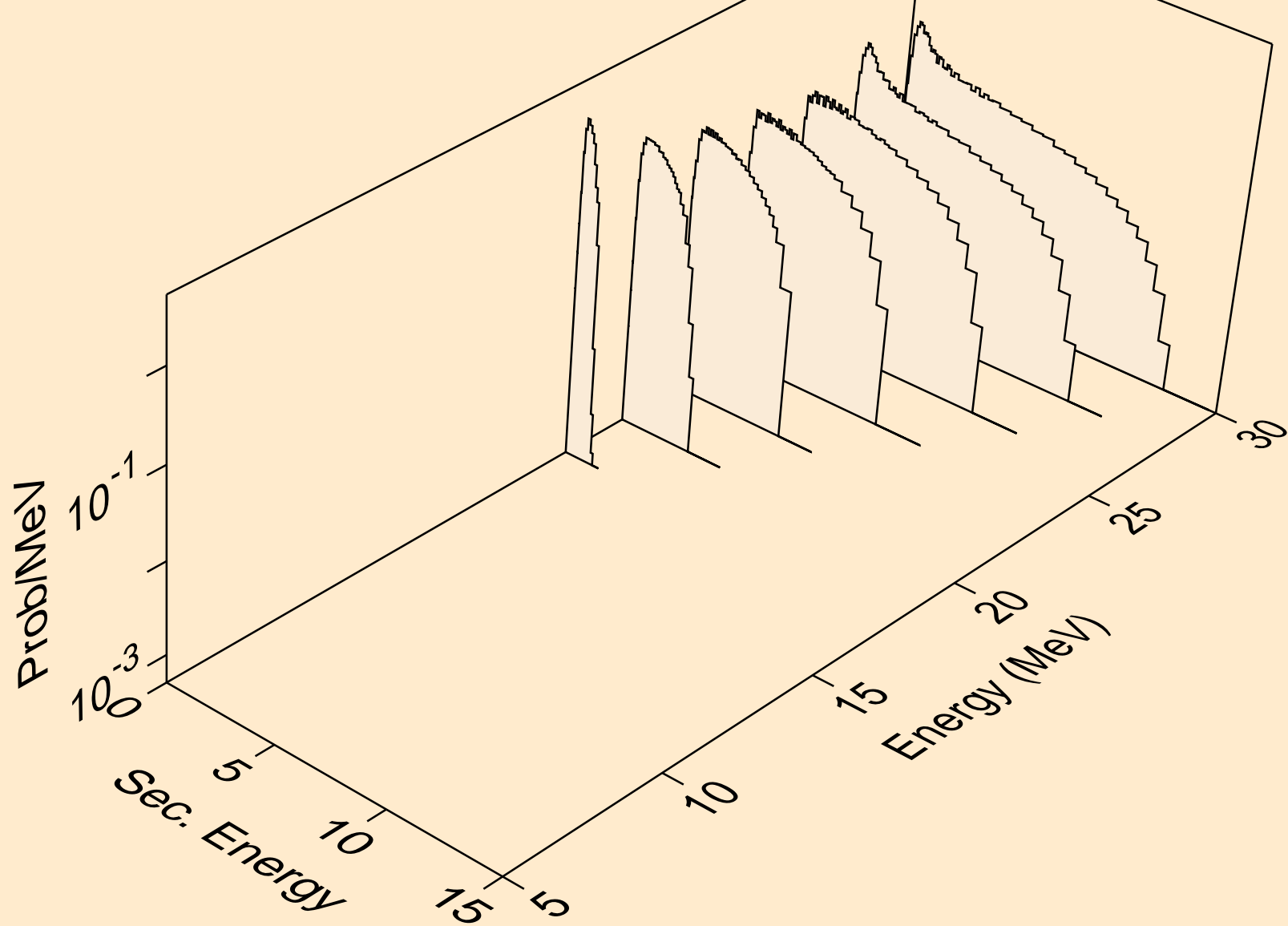
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)a



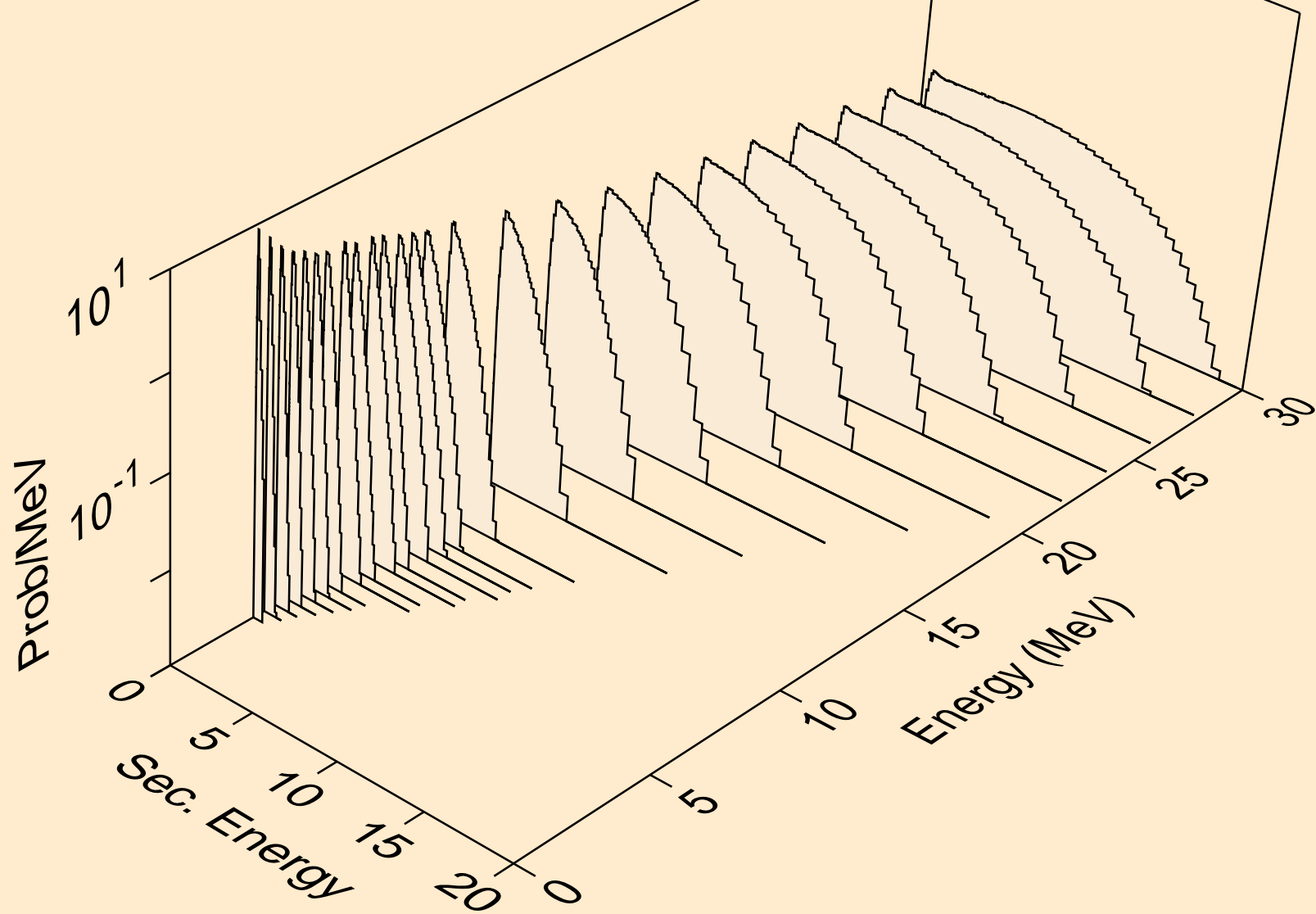
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2n)a



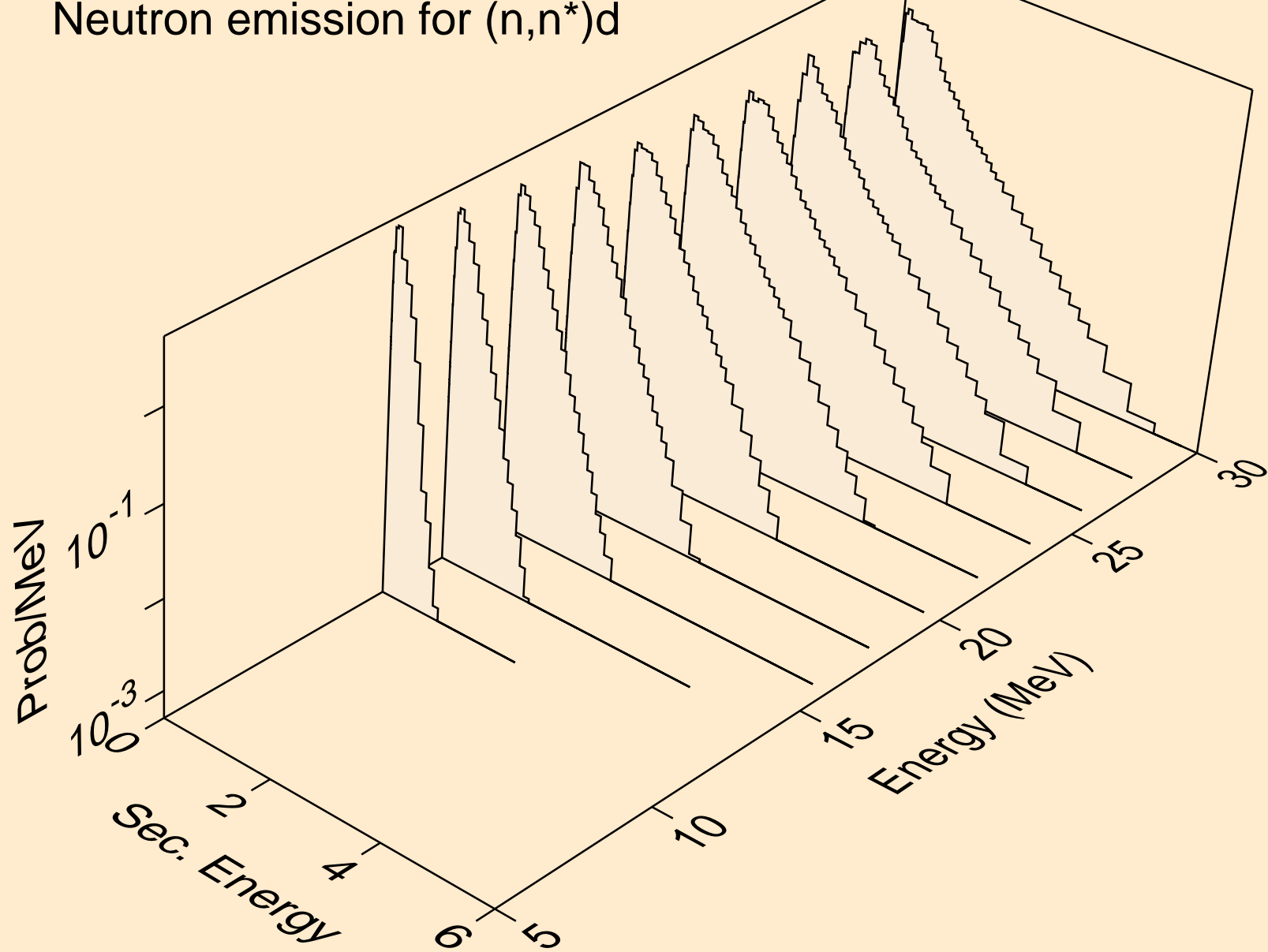
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3n)a



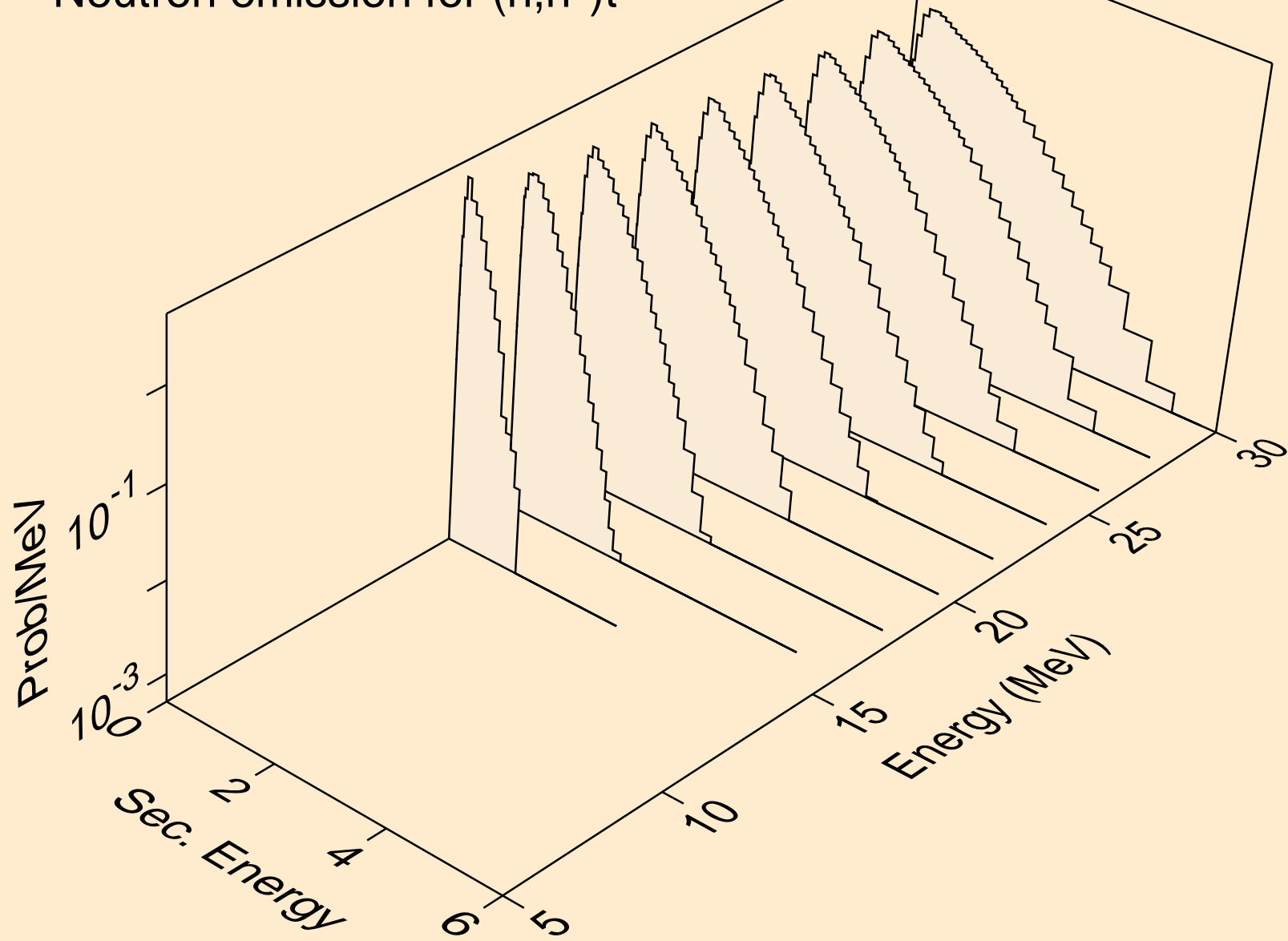
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)p



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)d

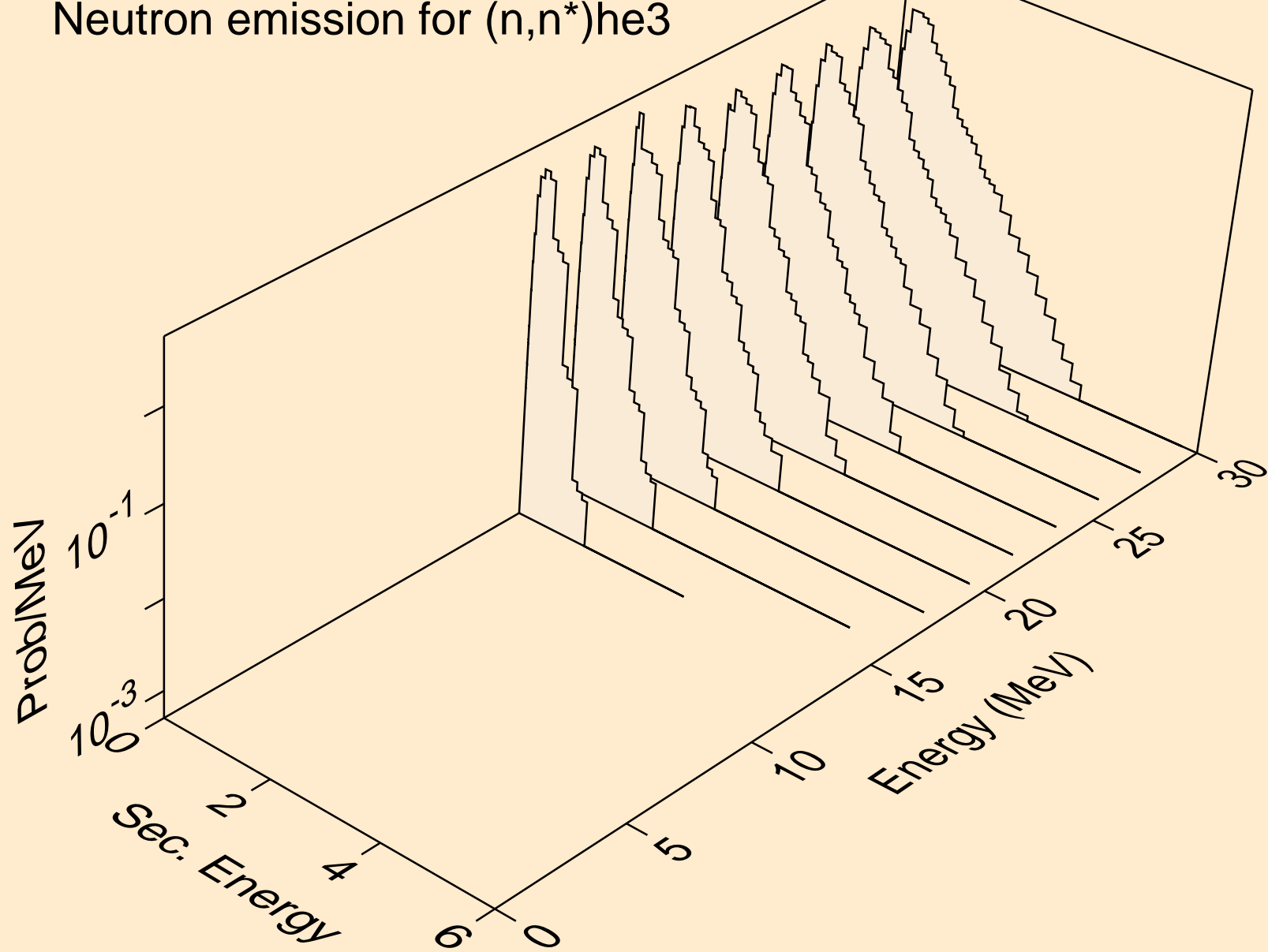


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)t

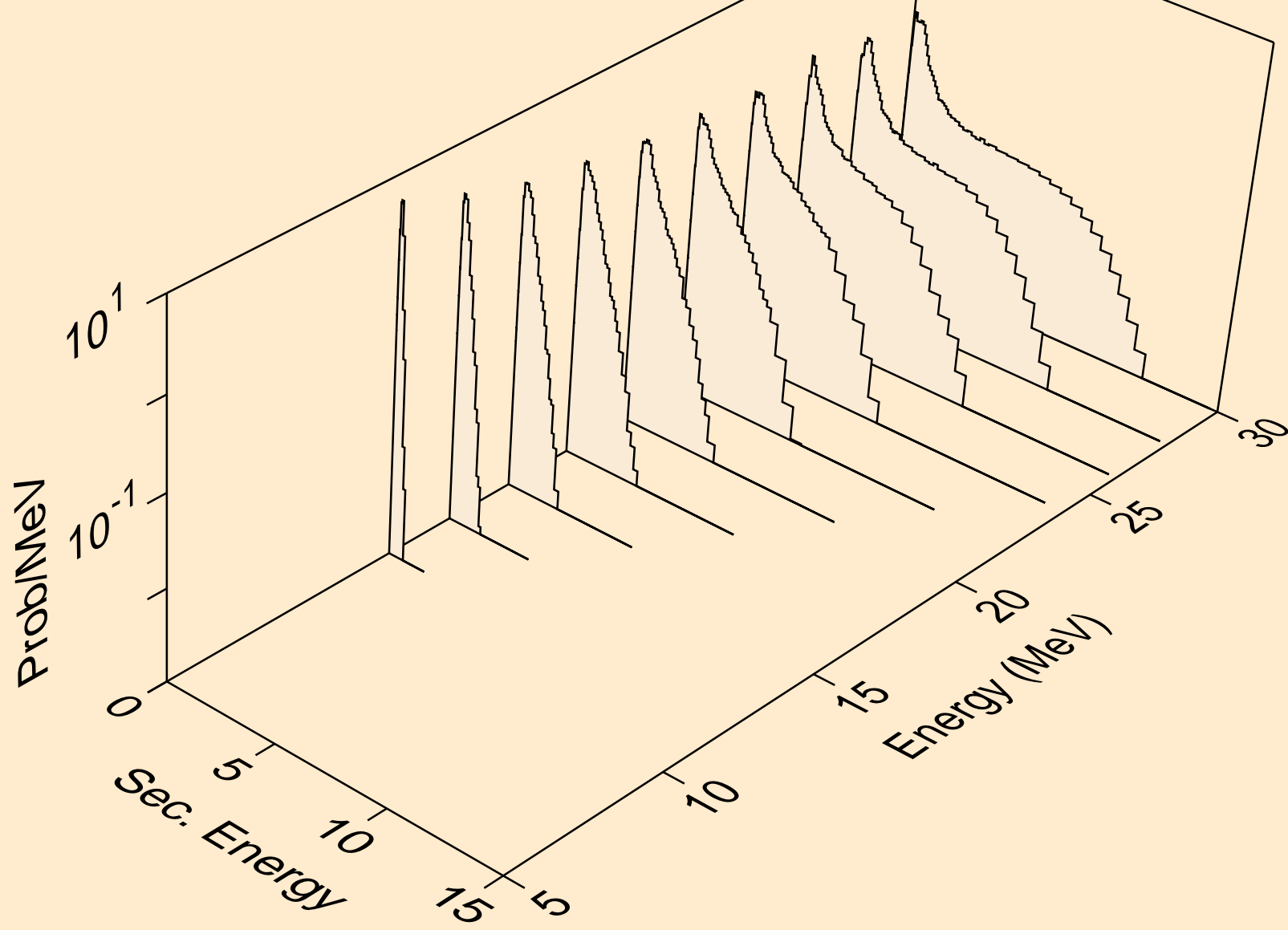




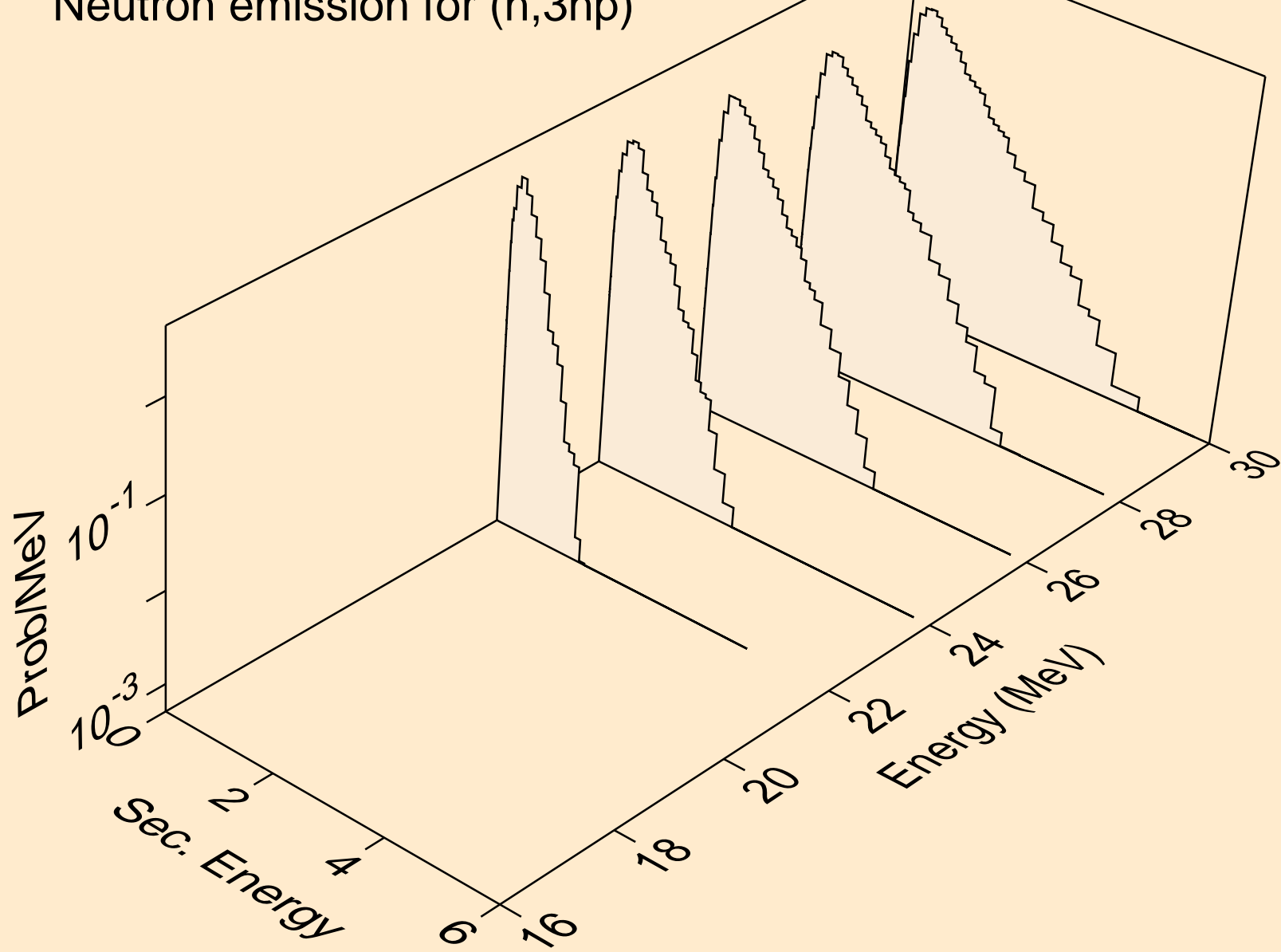
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*)he3



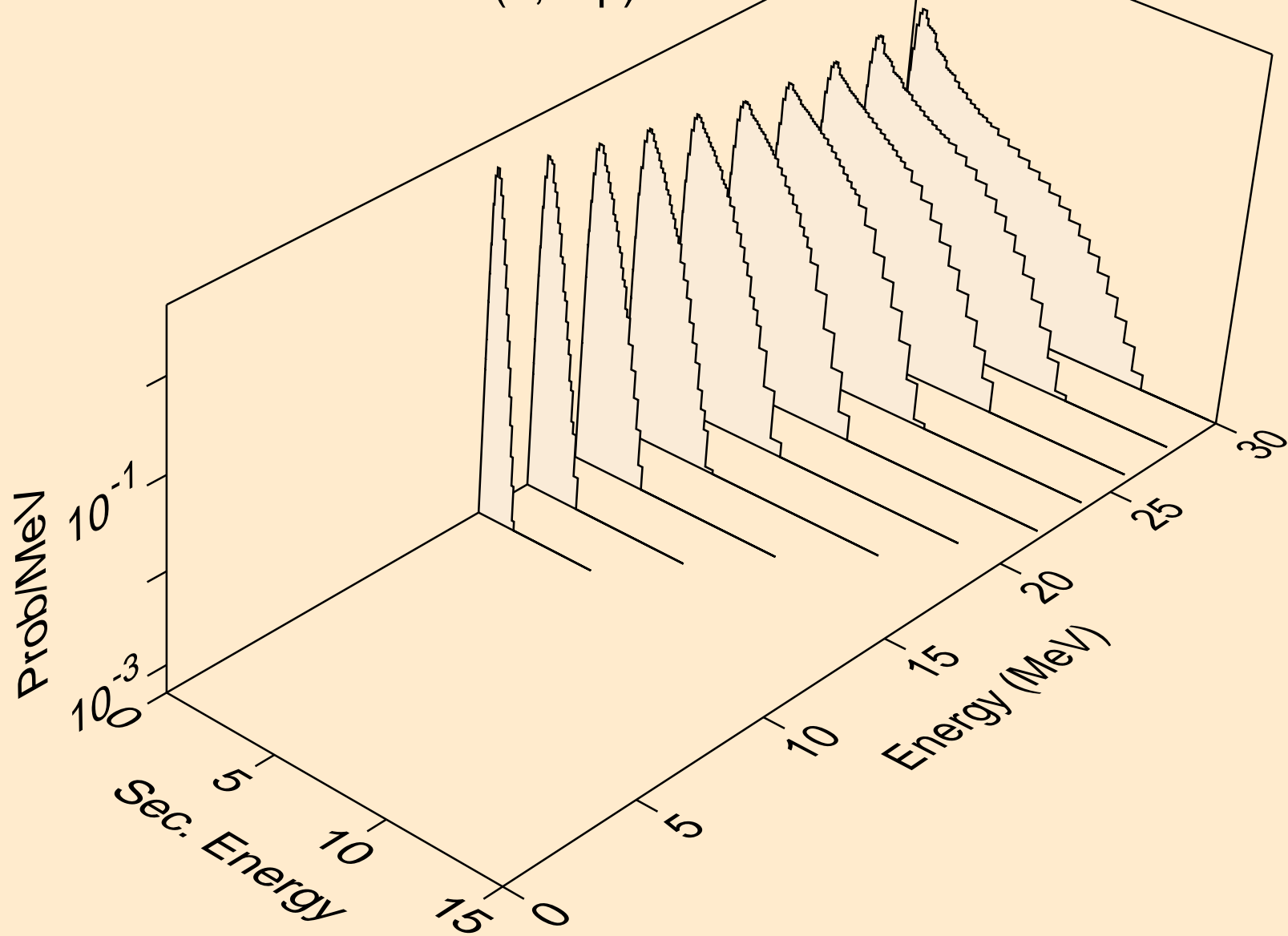
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



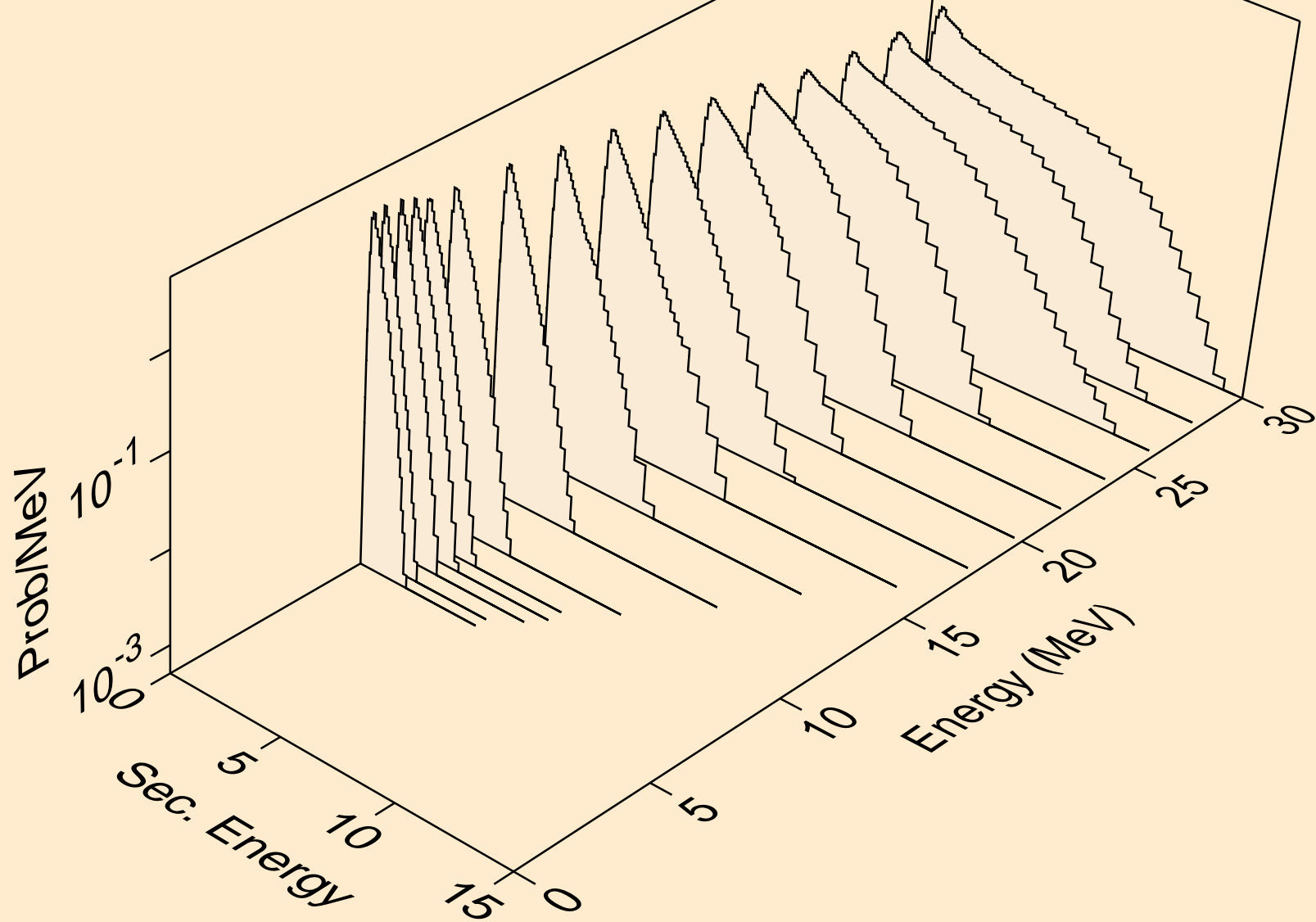
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,3np)



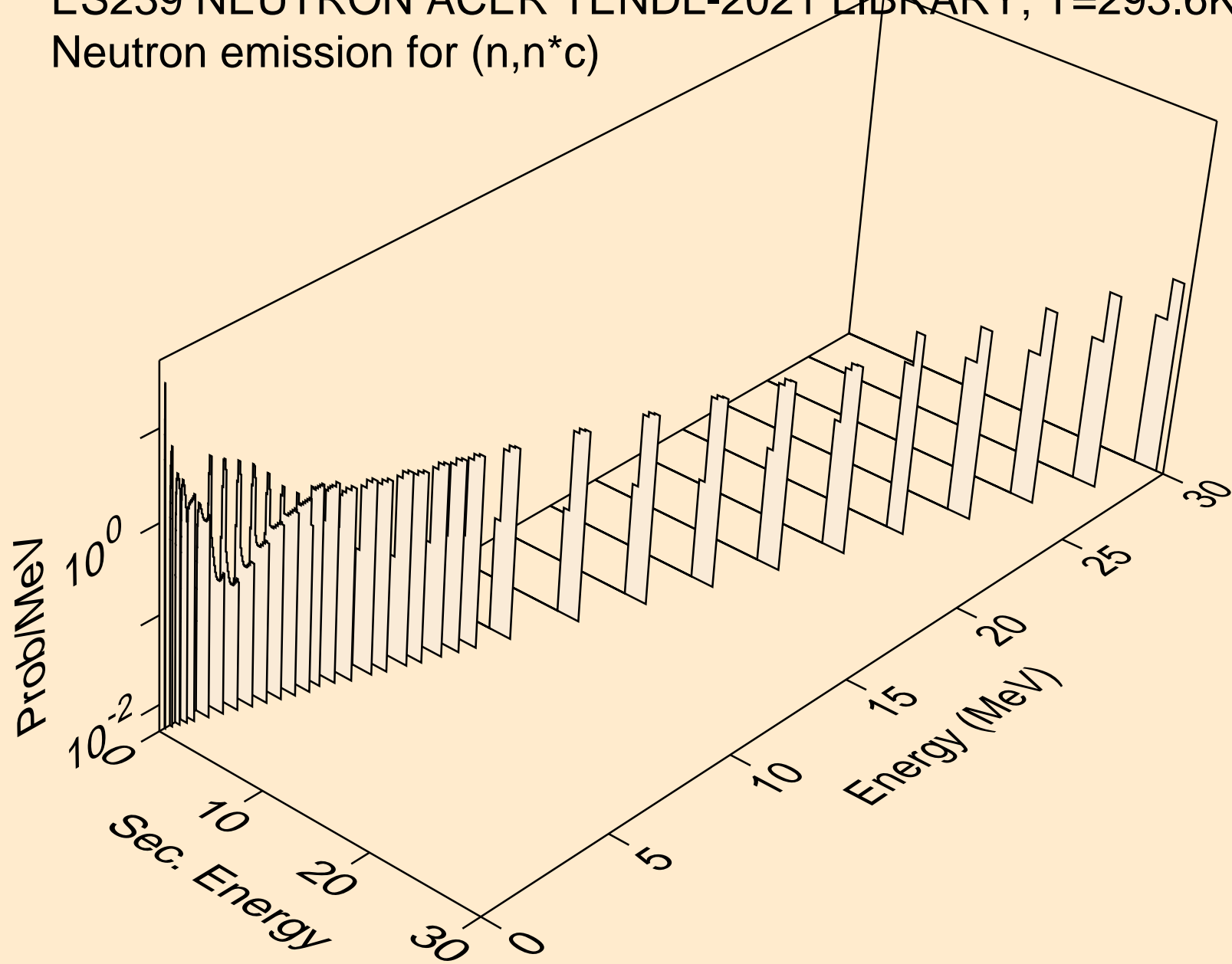
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,2np)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,npa)

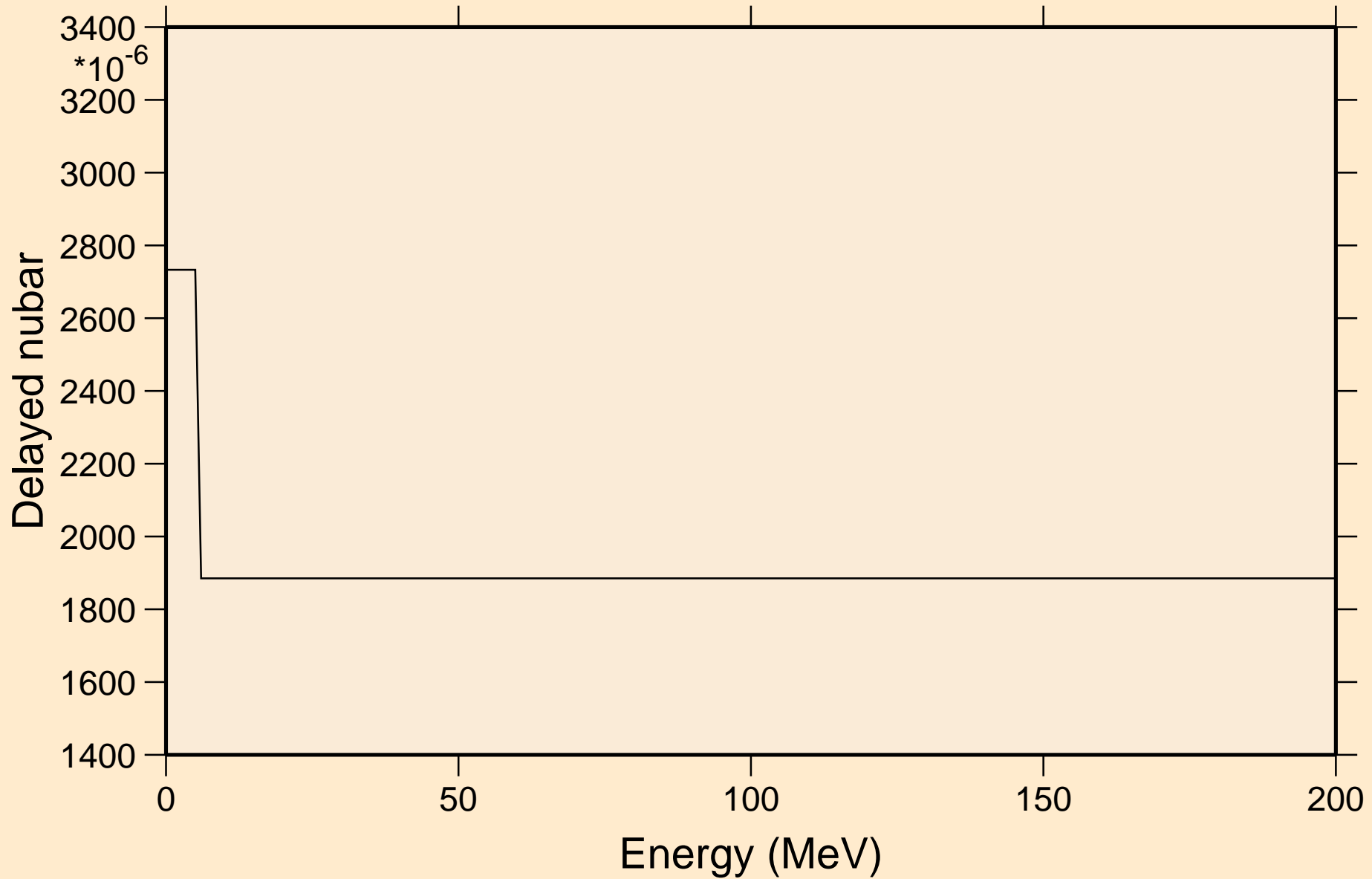


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Neutron emission for (n,n\*c)



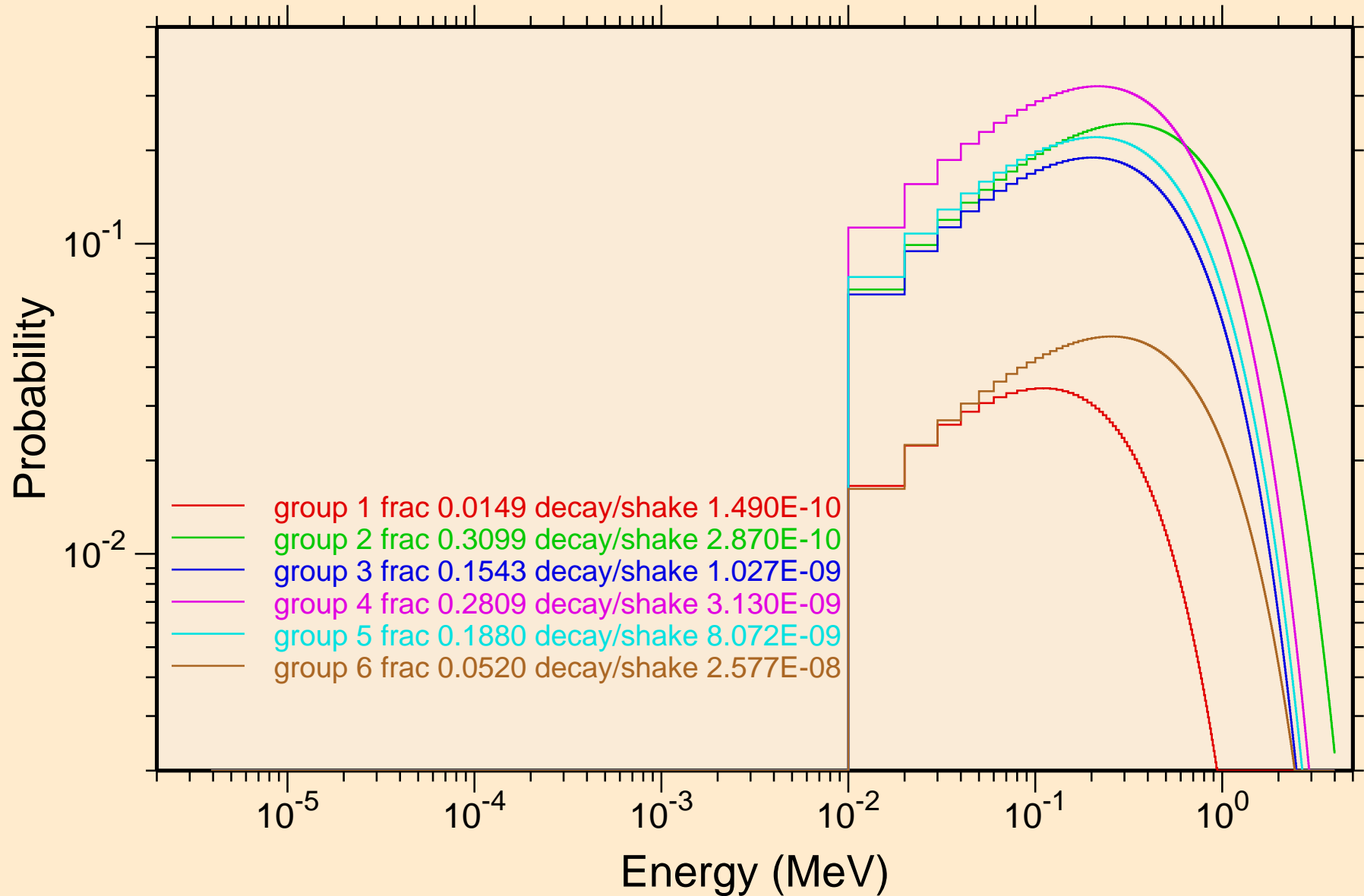
# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Delayed nubar



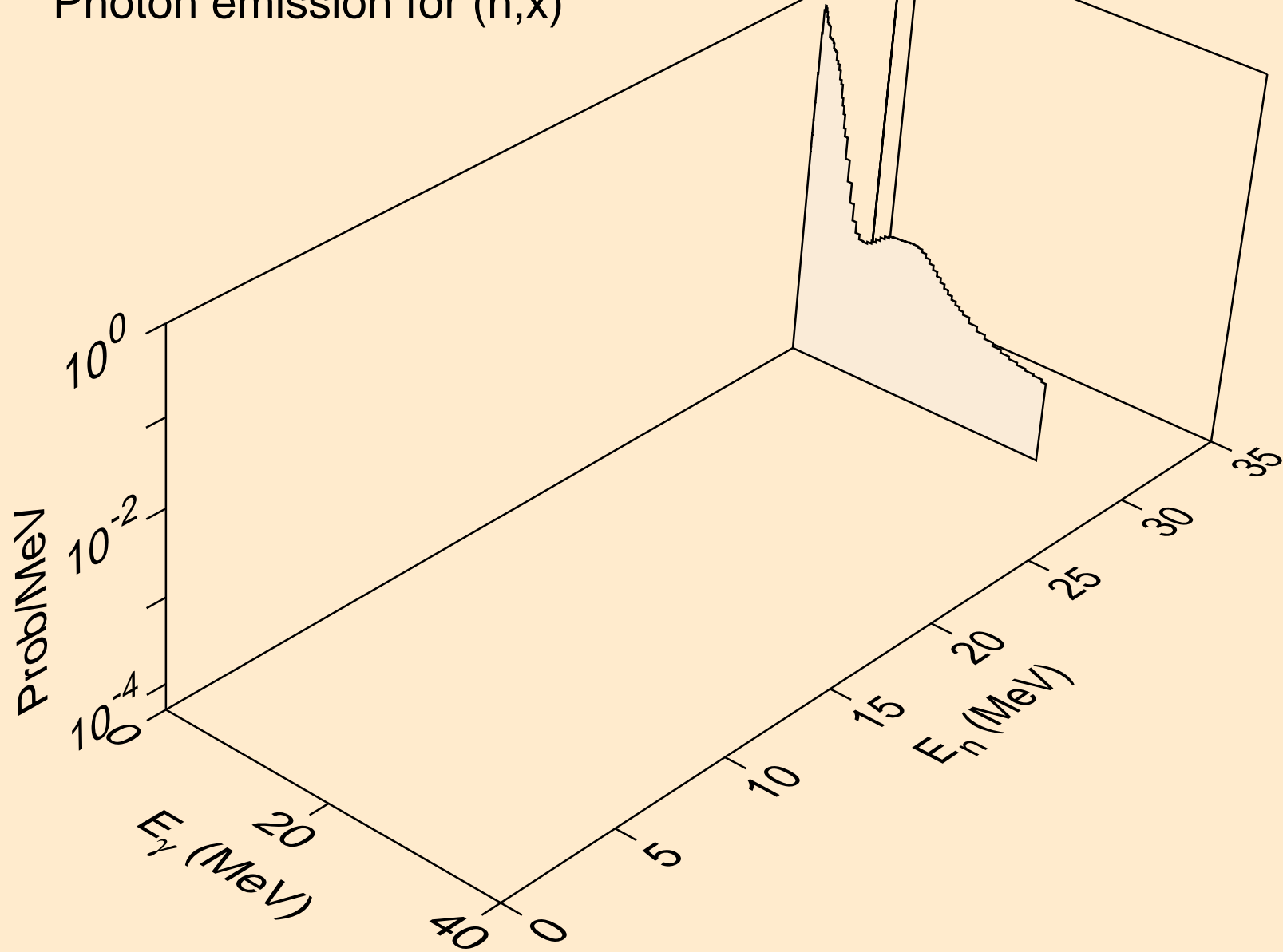
# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Delayed neutron spectra

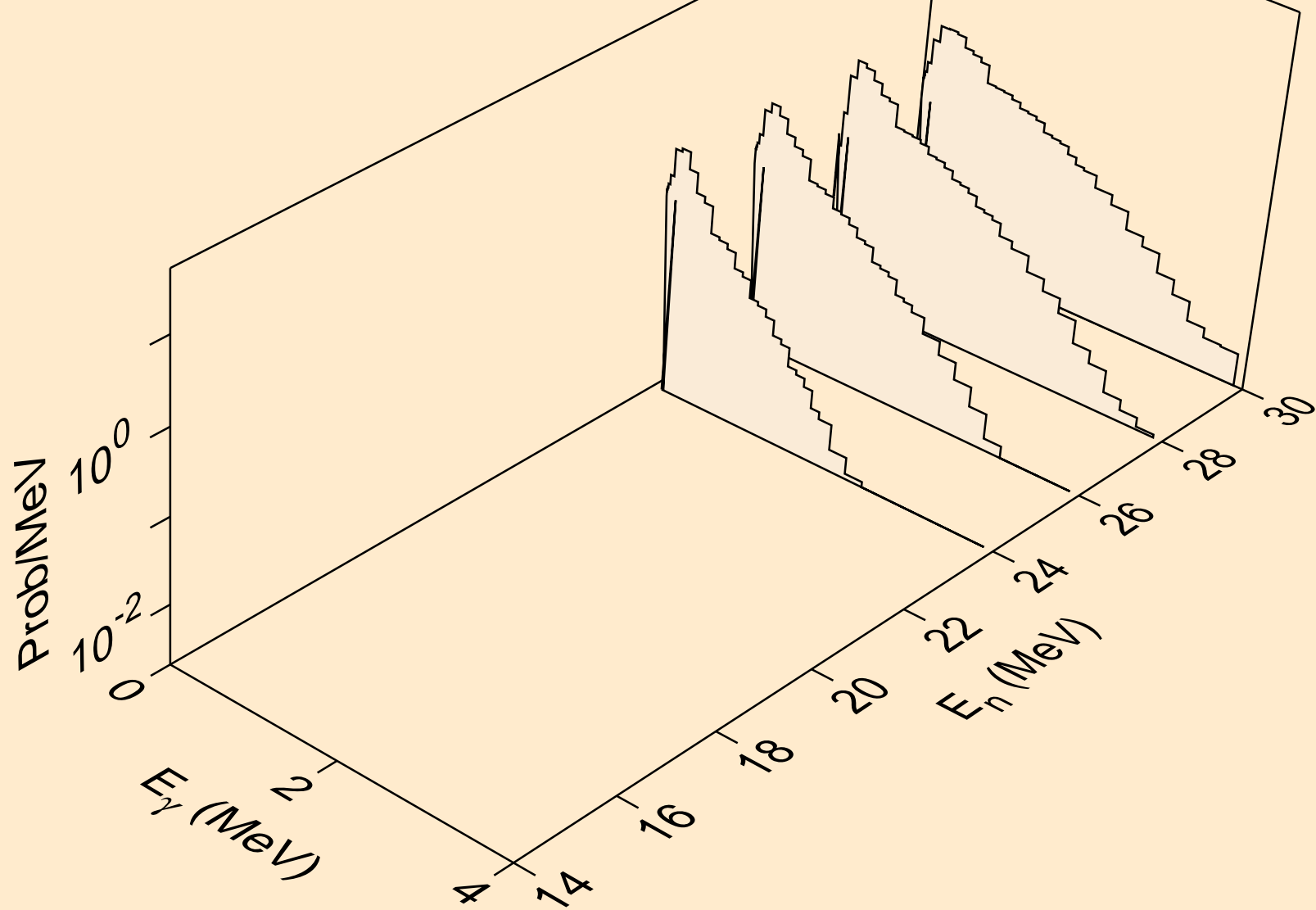




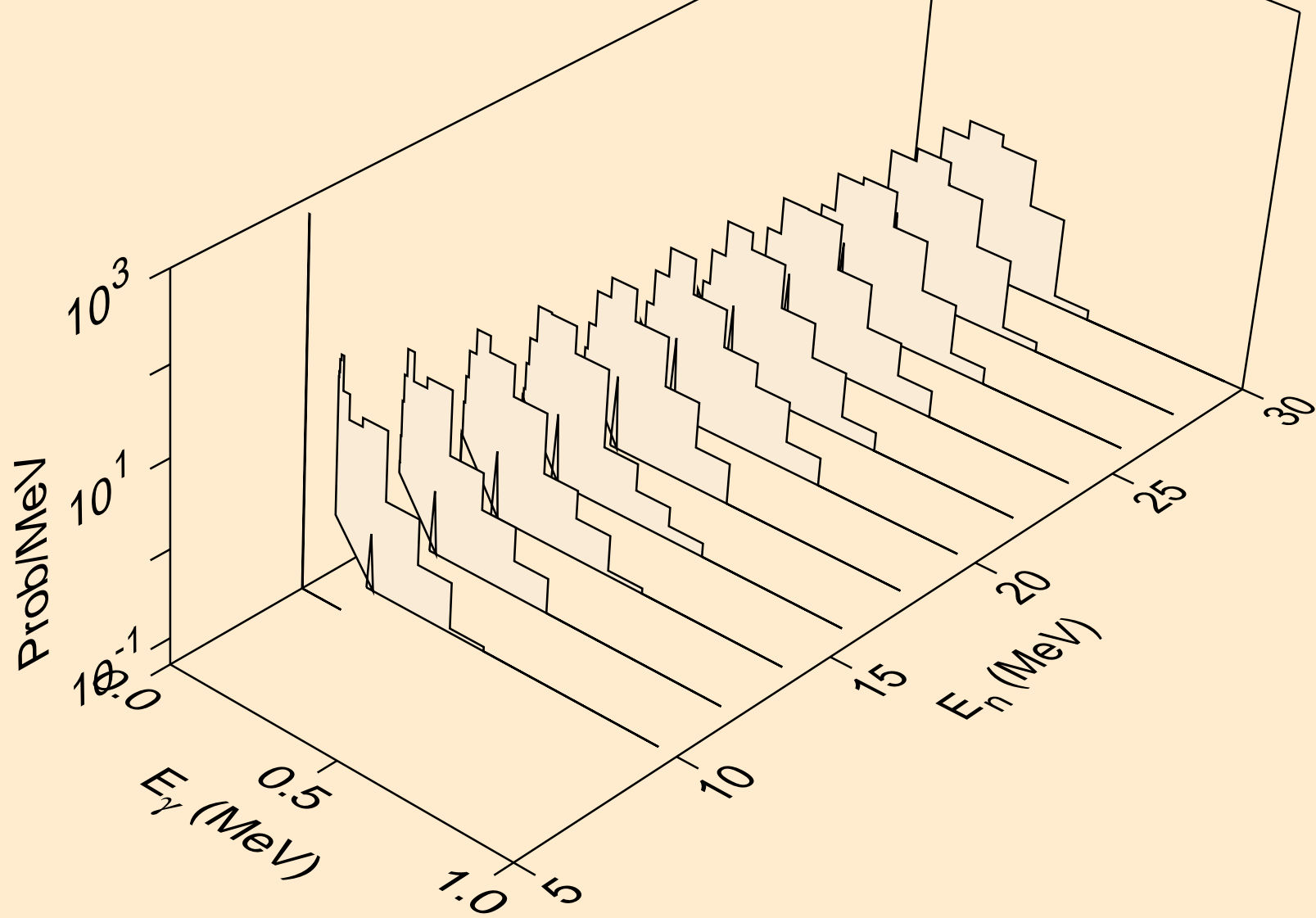
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,x)



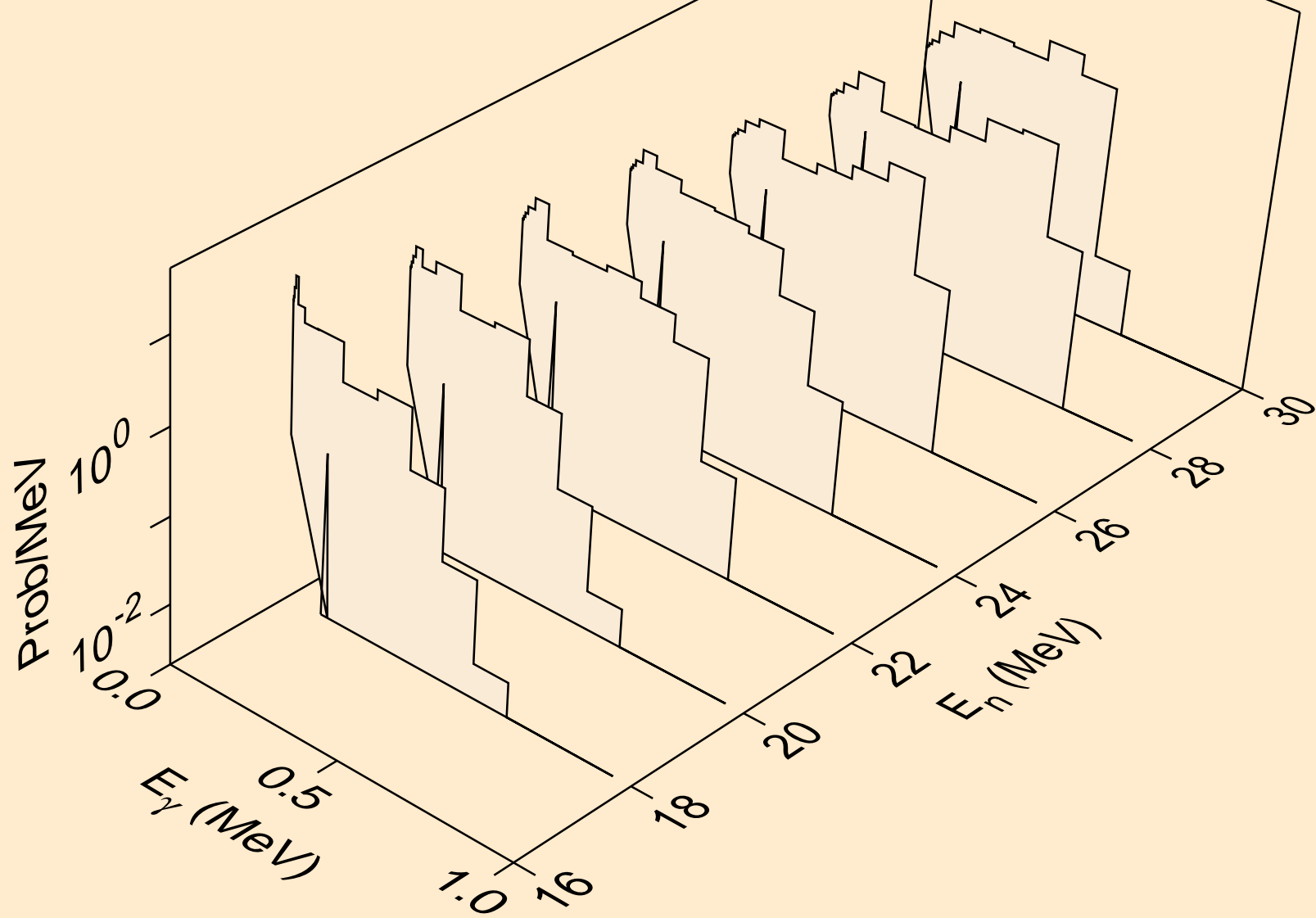
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2nd)



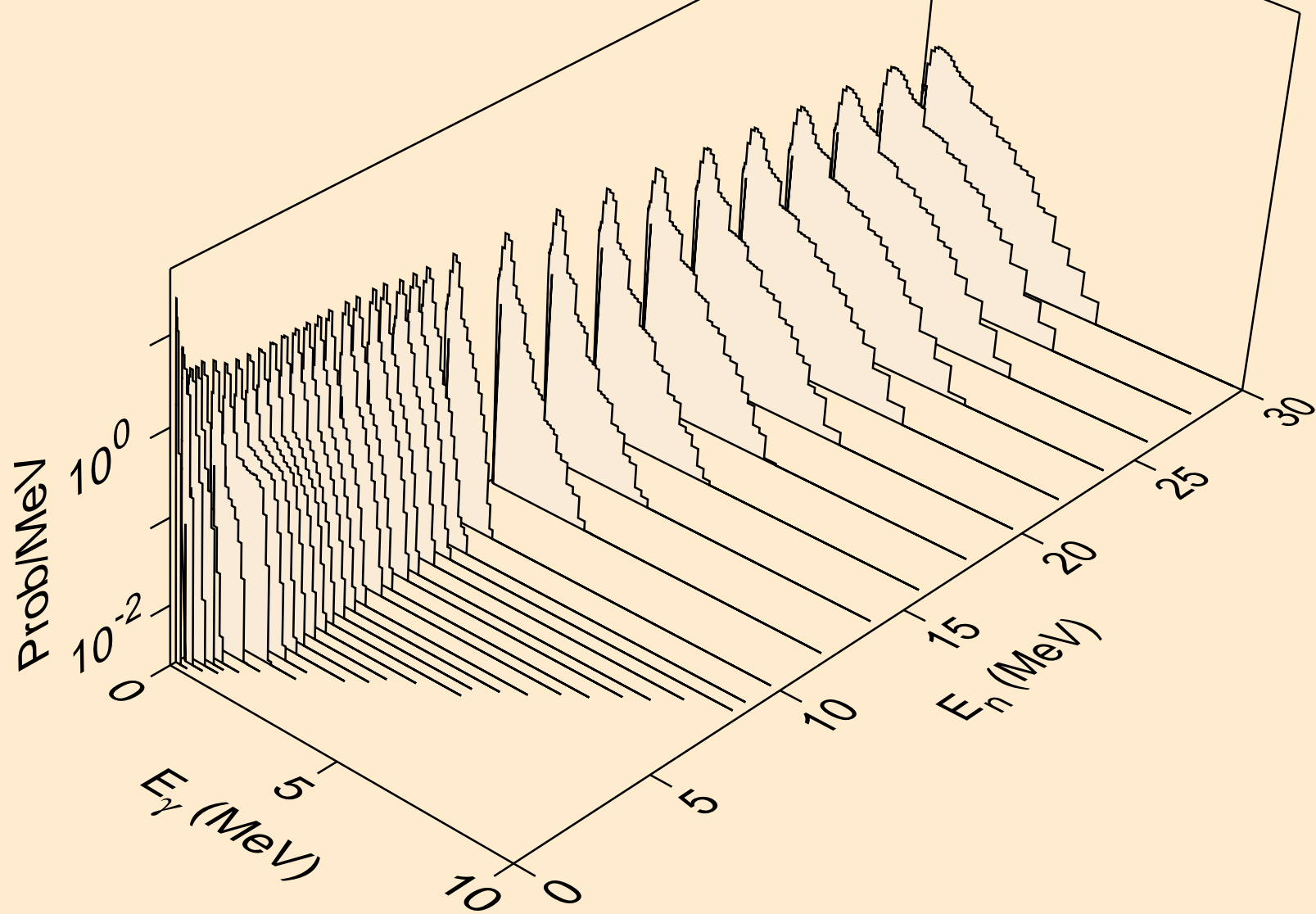
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)



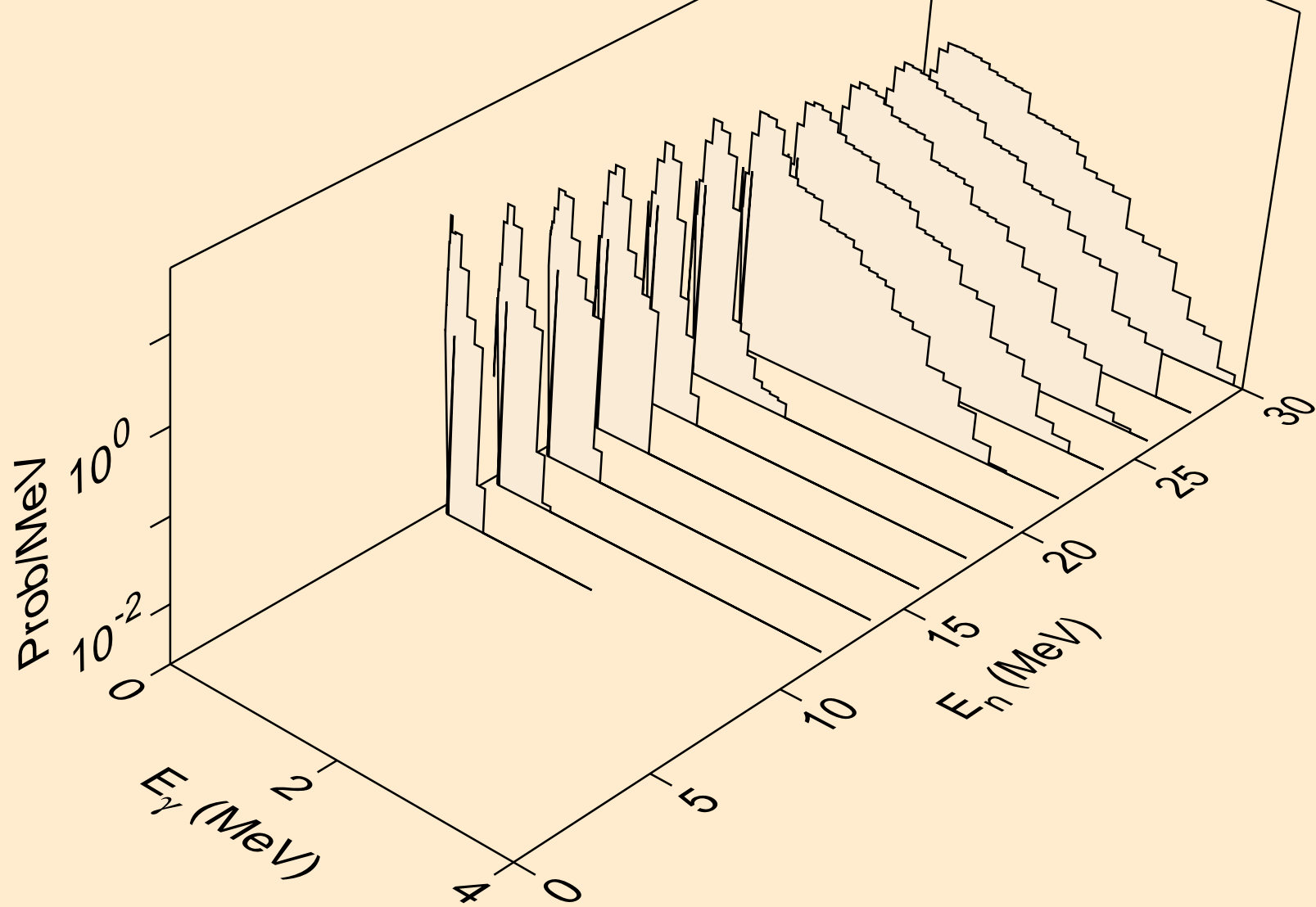
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)



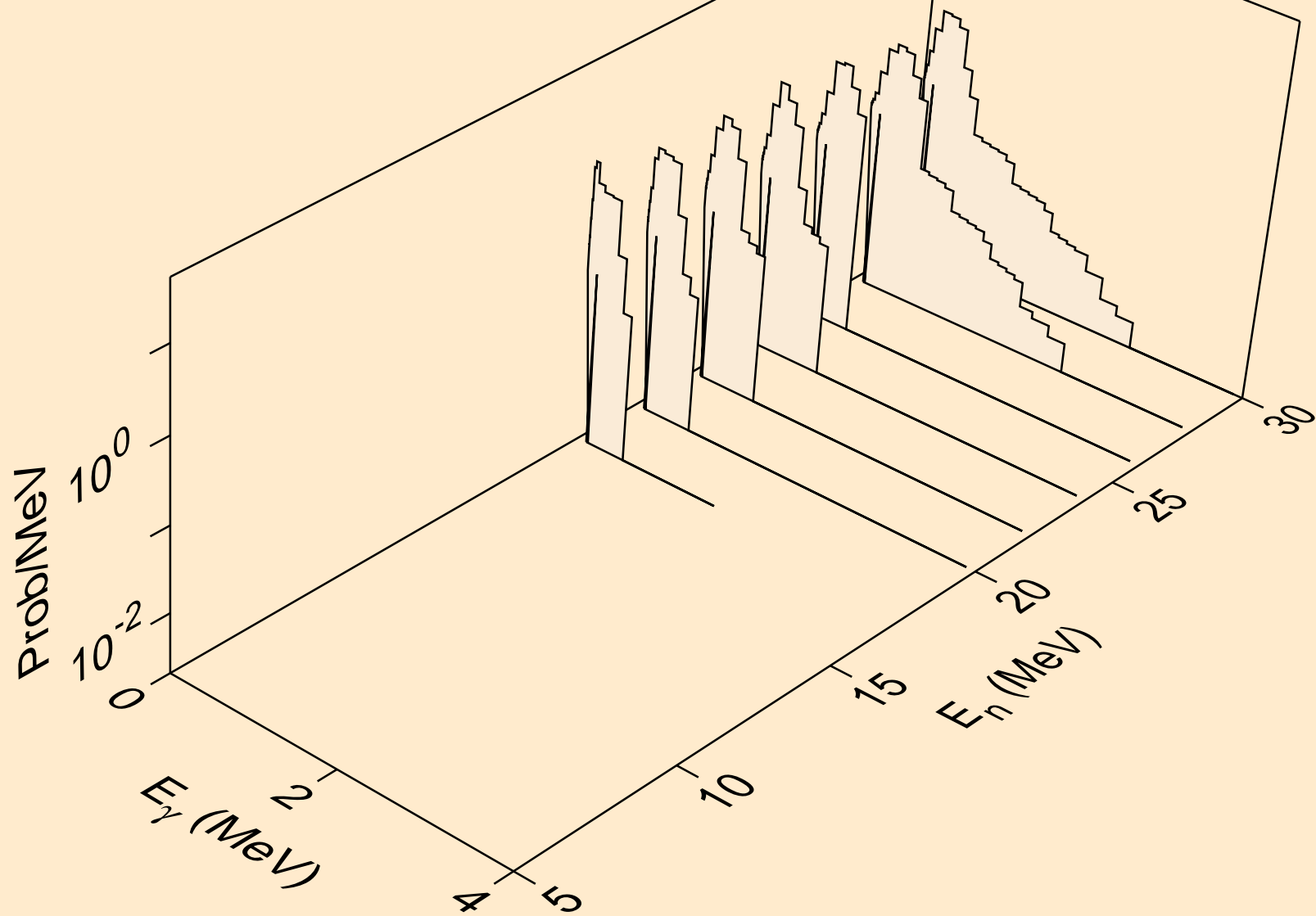
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)a



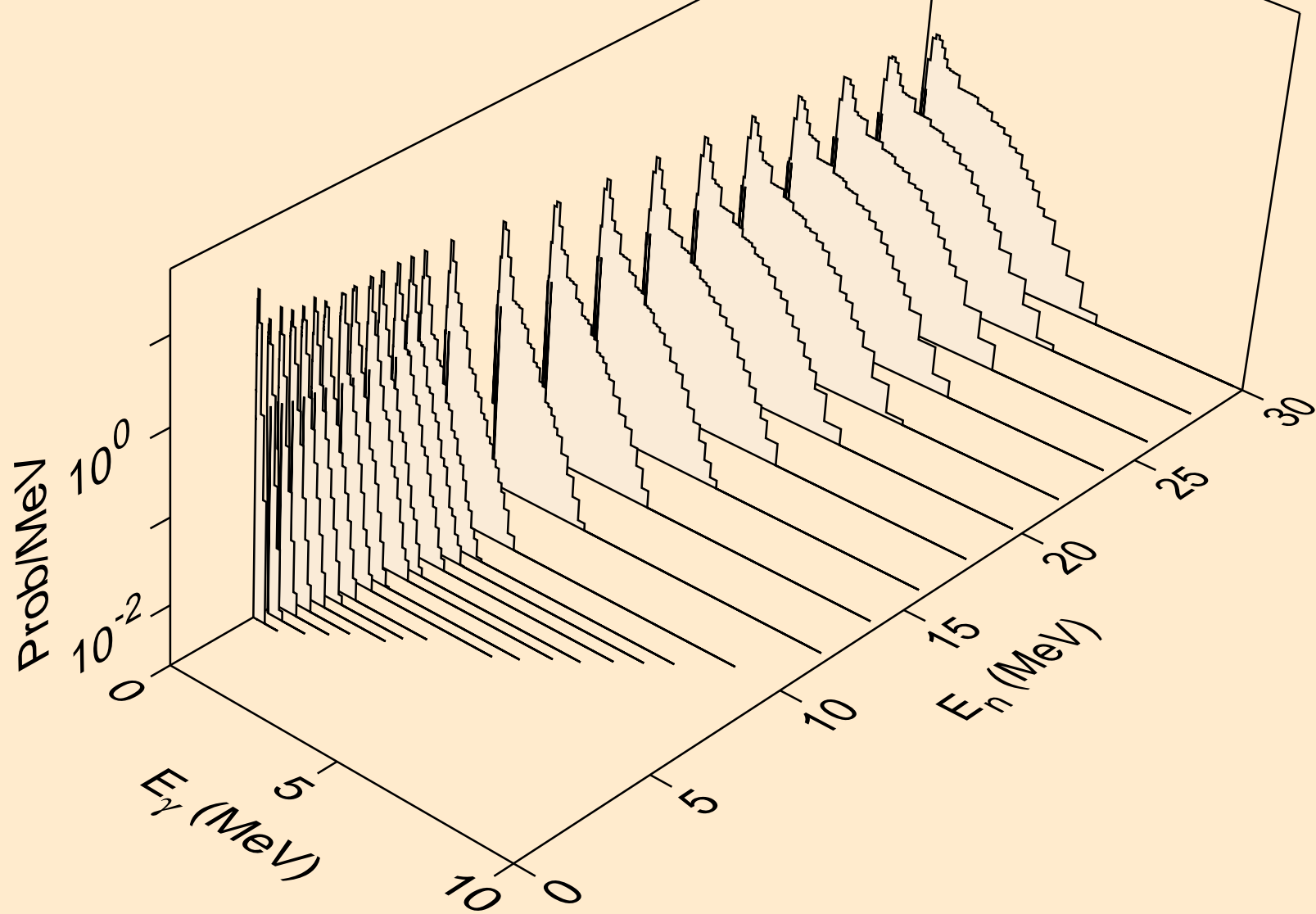
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2n)a



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3n)a

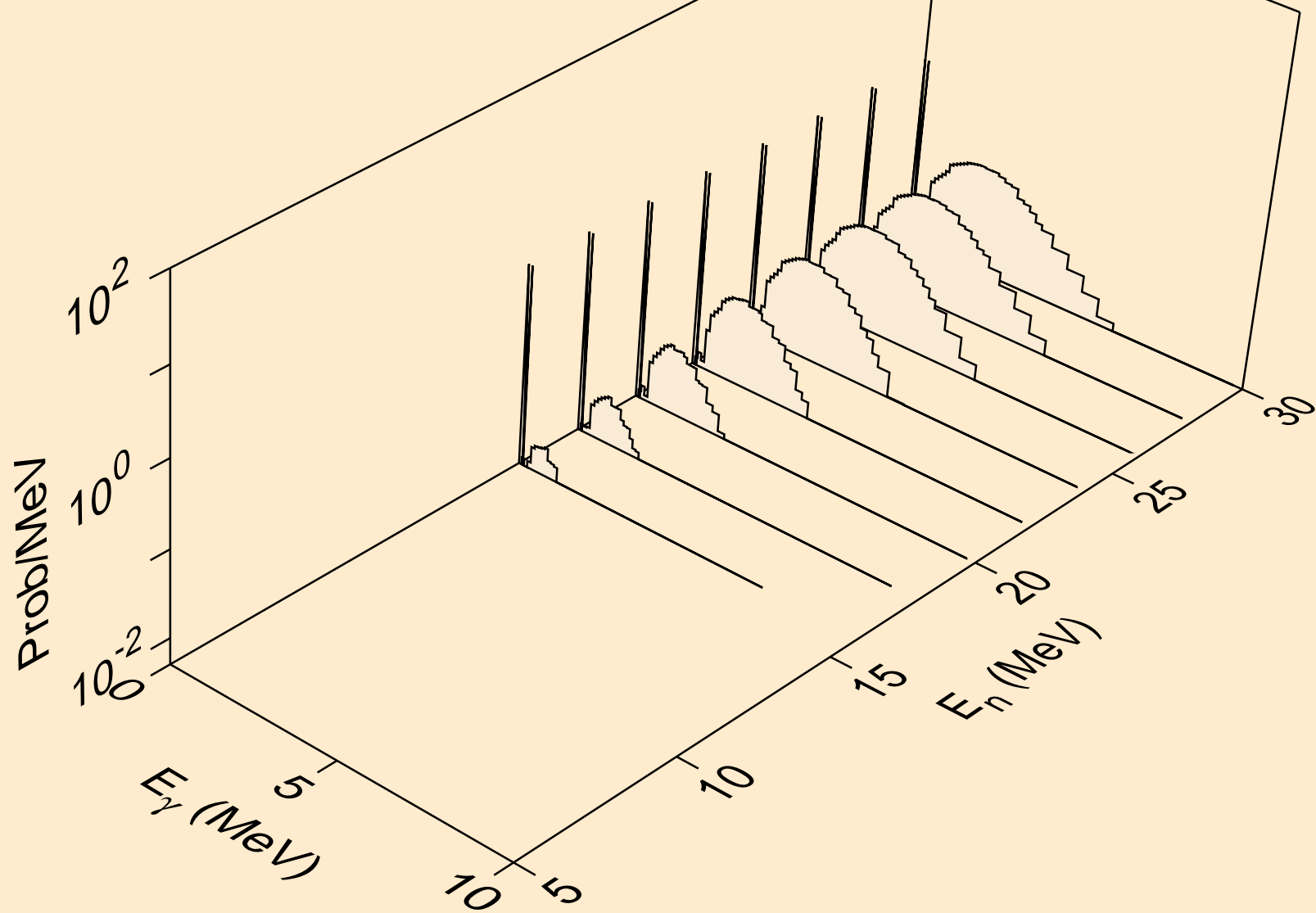


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)p

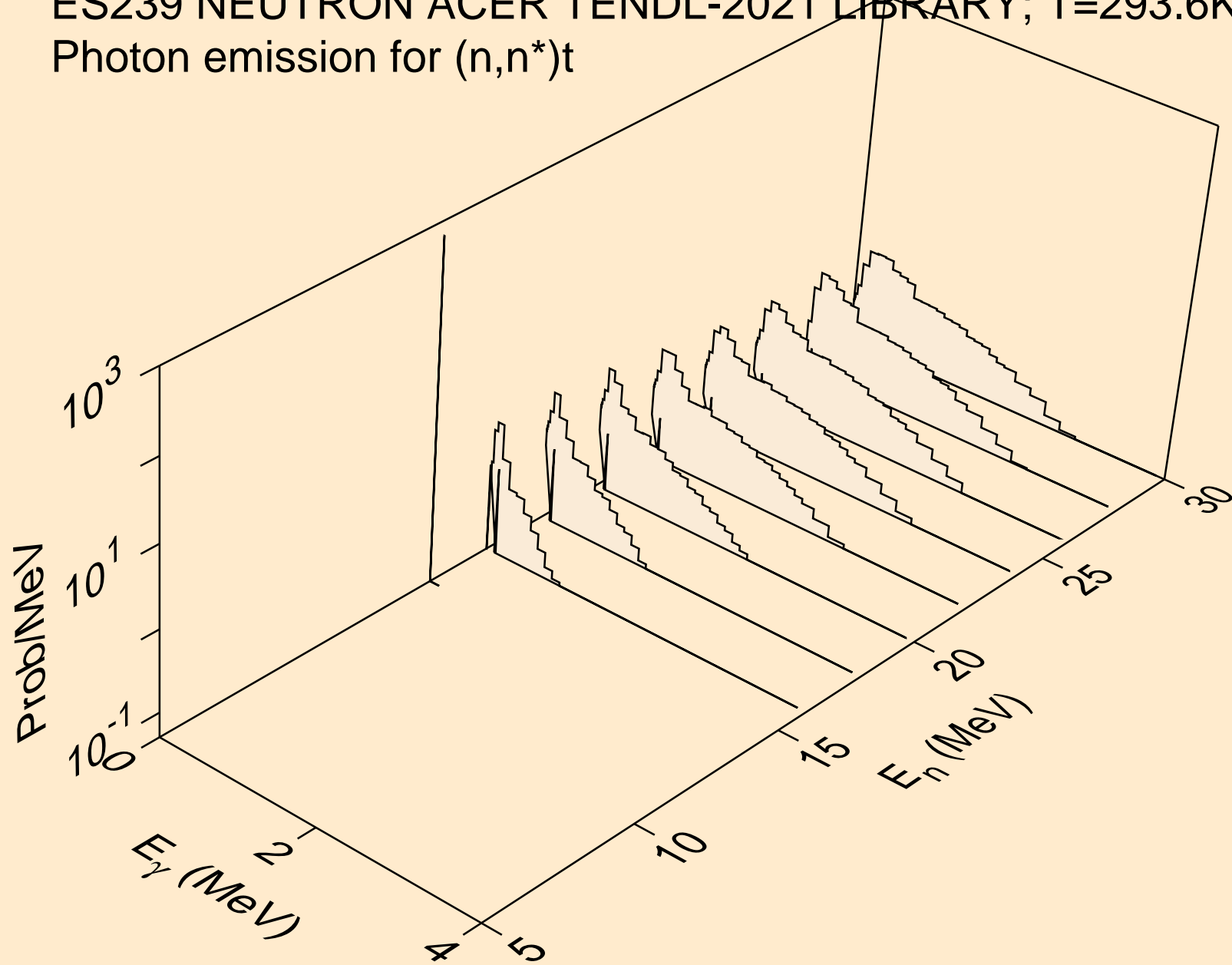




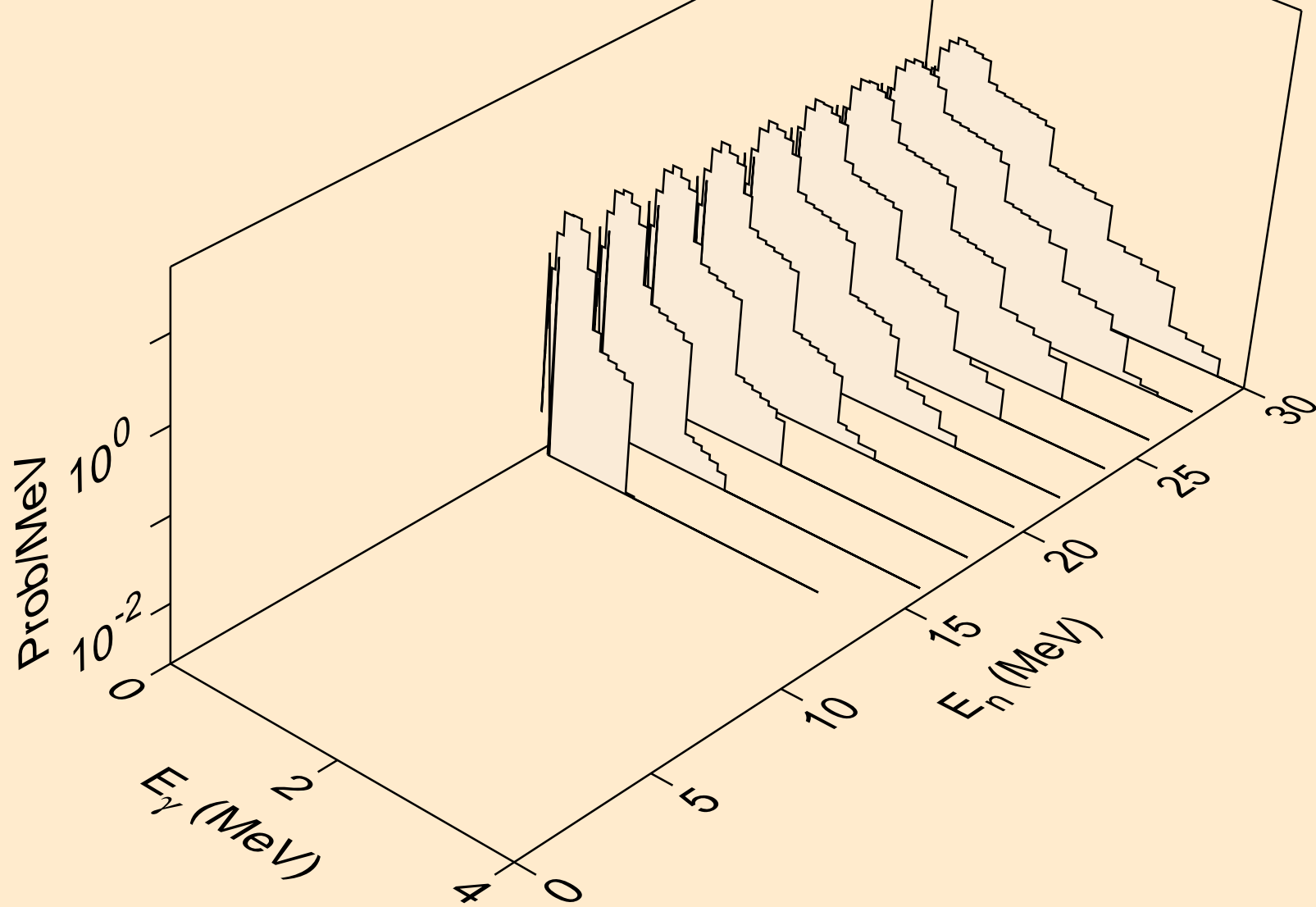
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)d



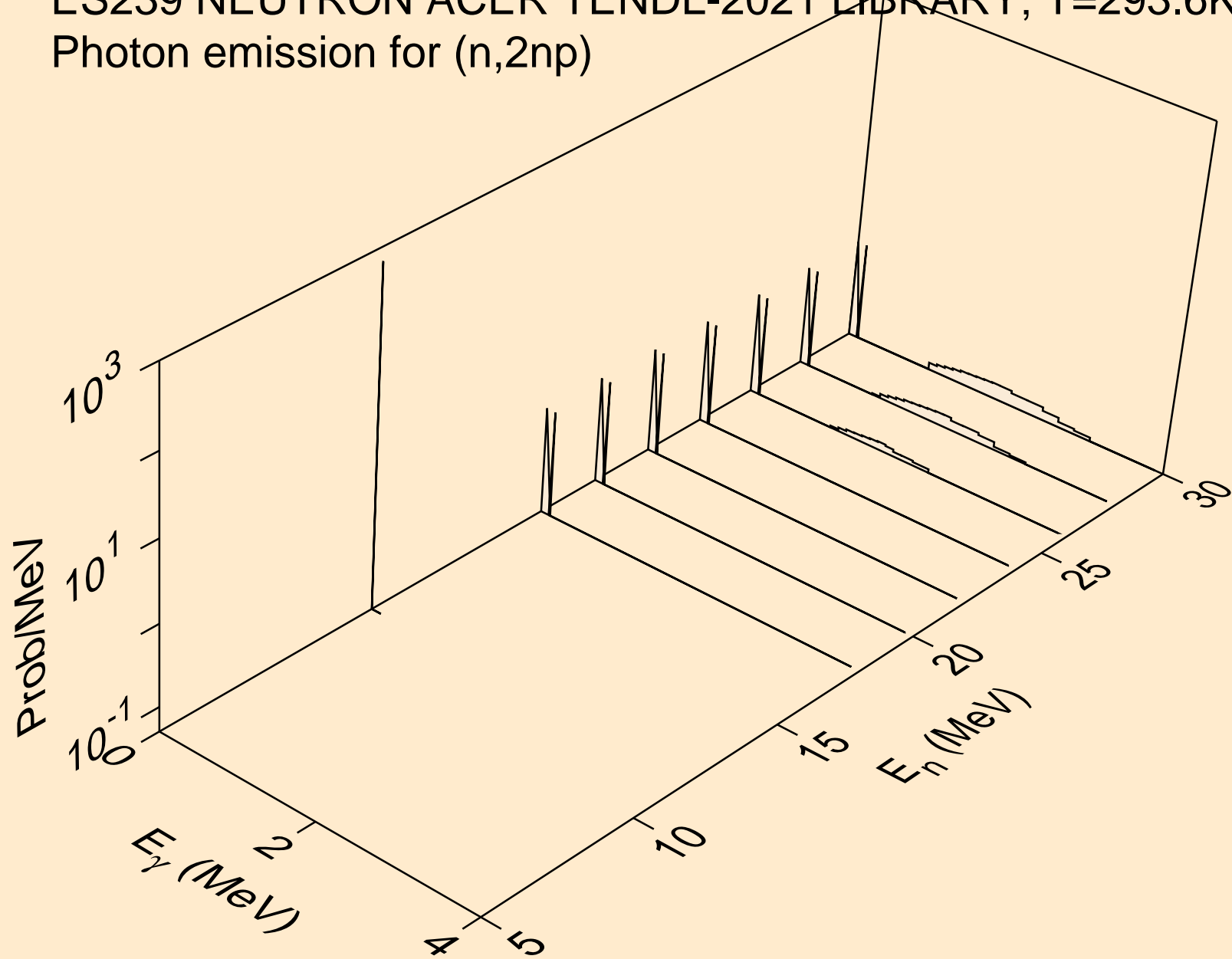
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)t



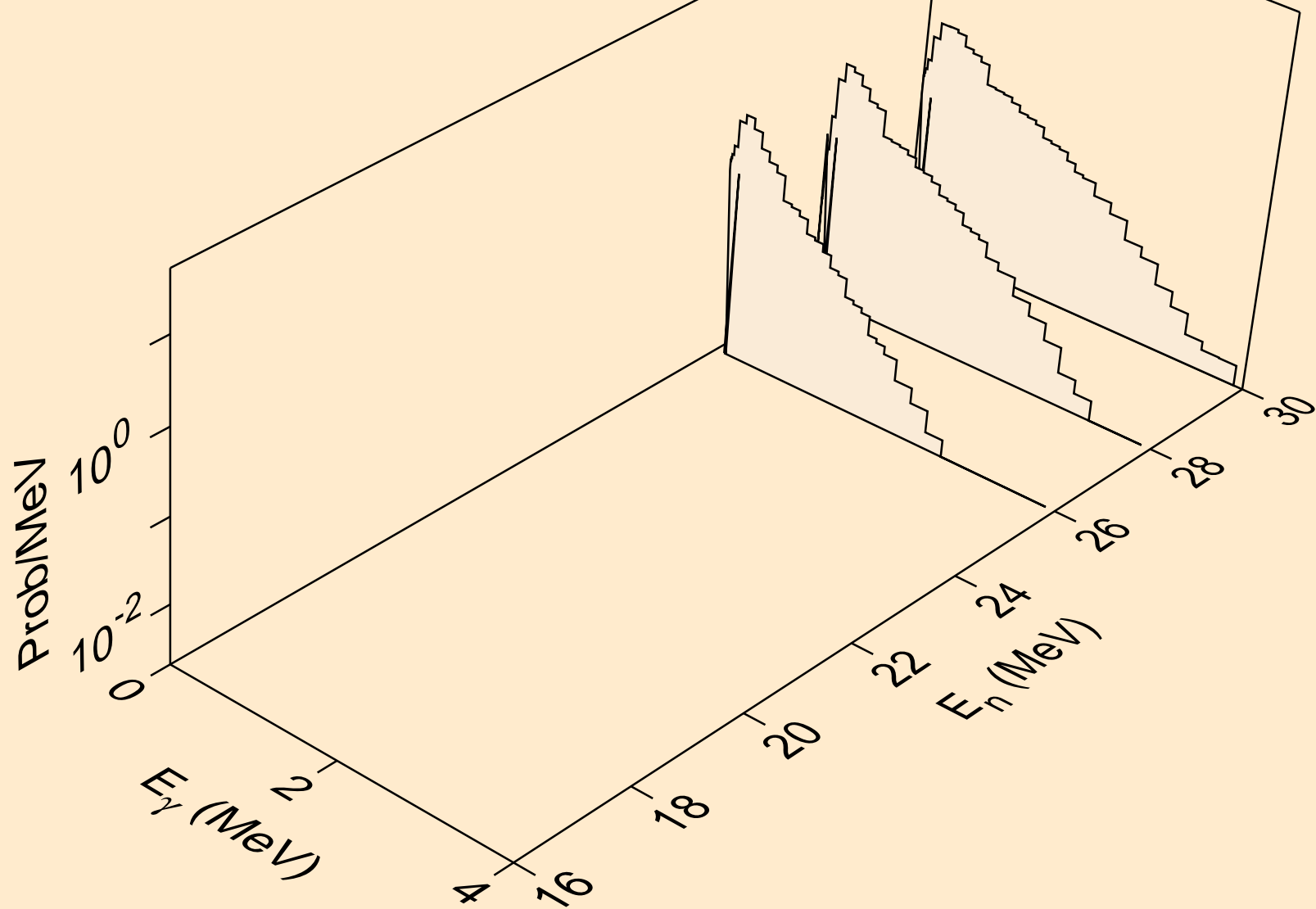
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*)he3



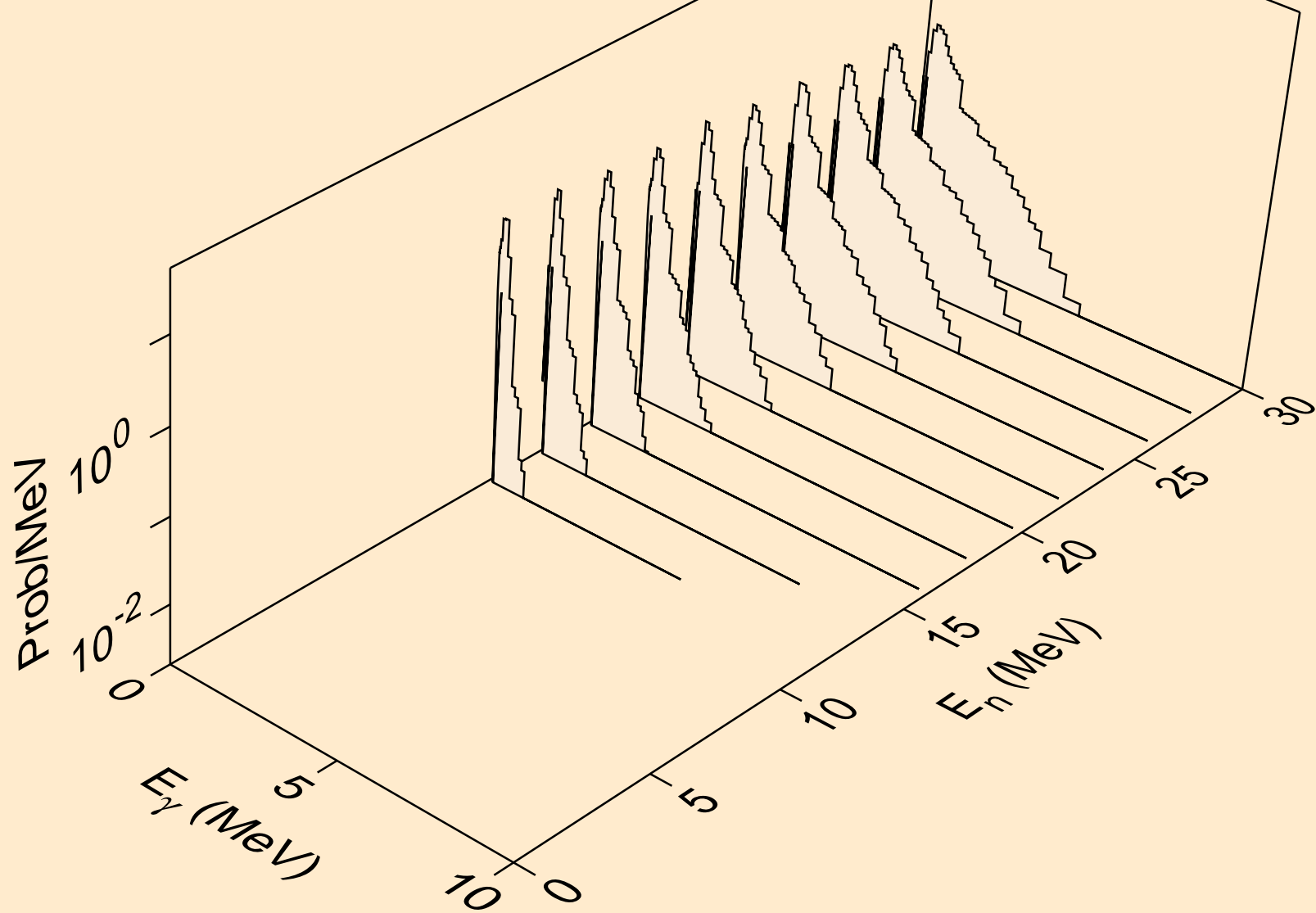
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



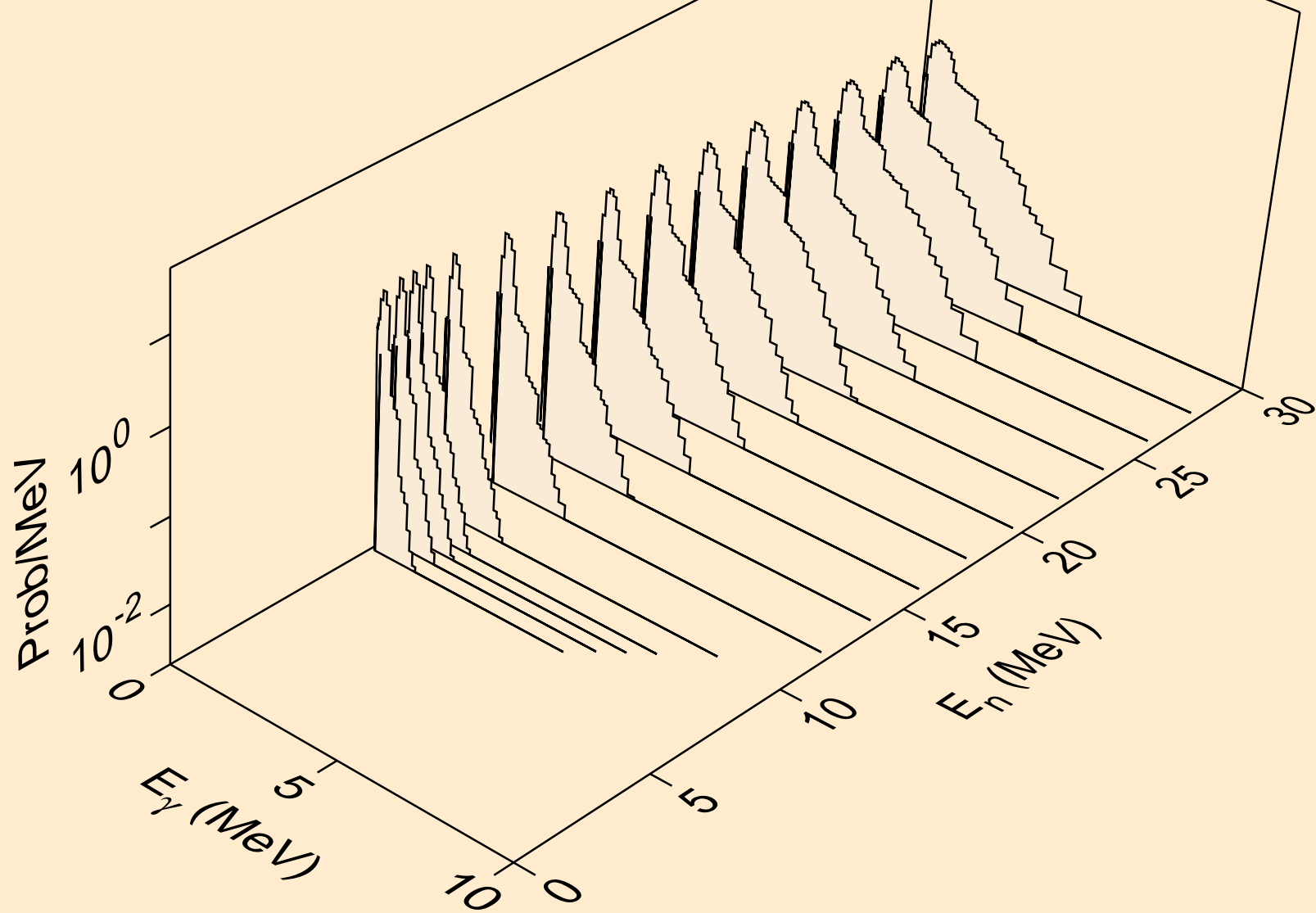
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,3np)



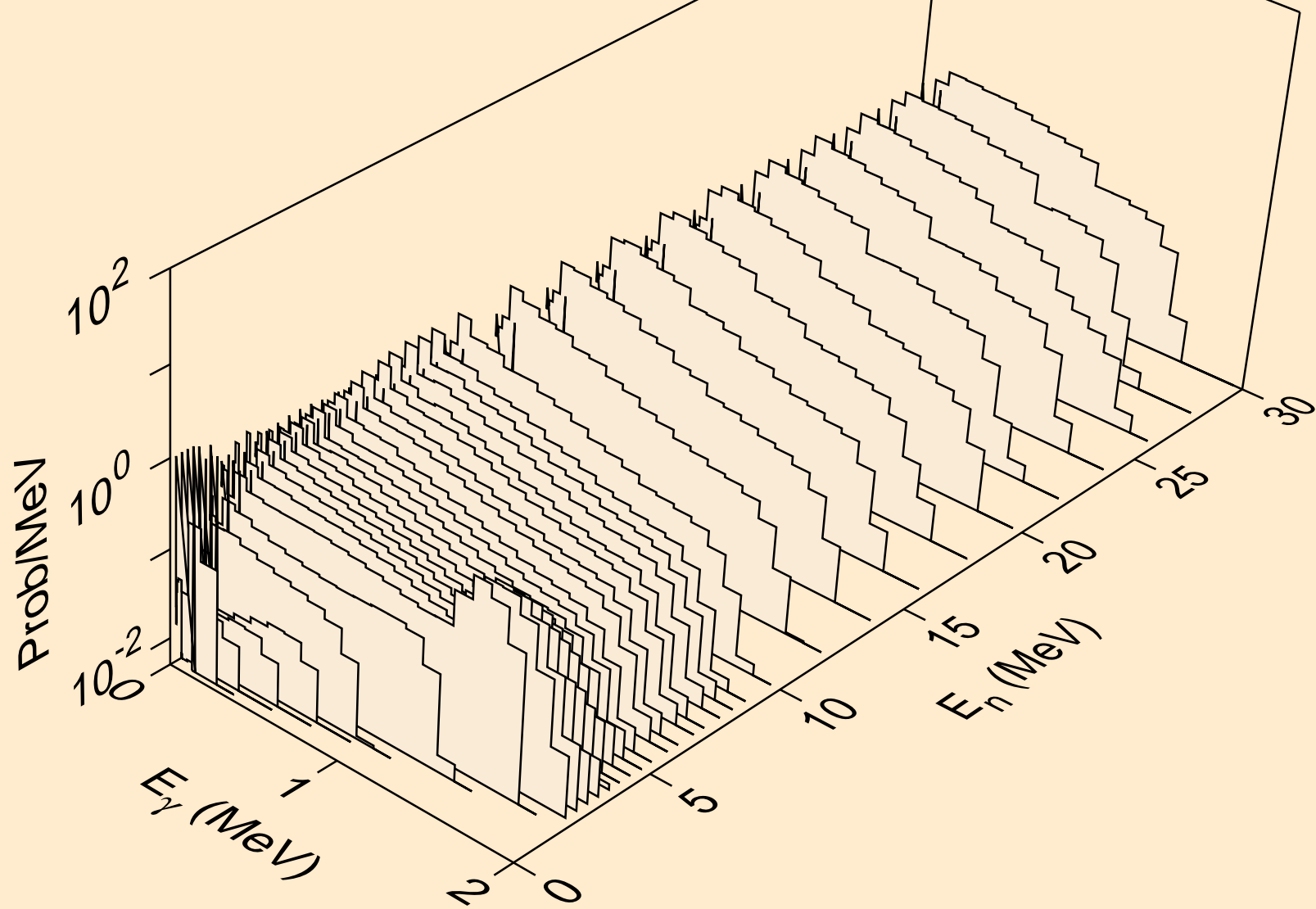
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2np)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,npa)

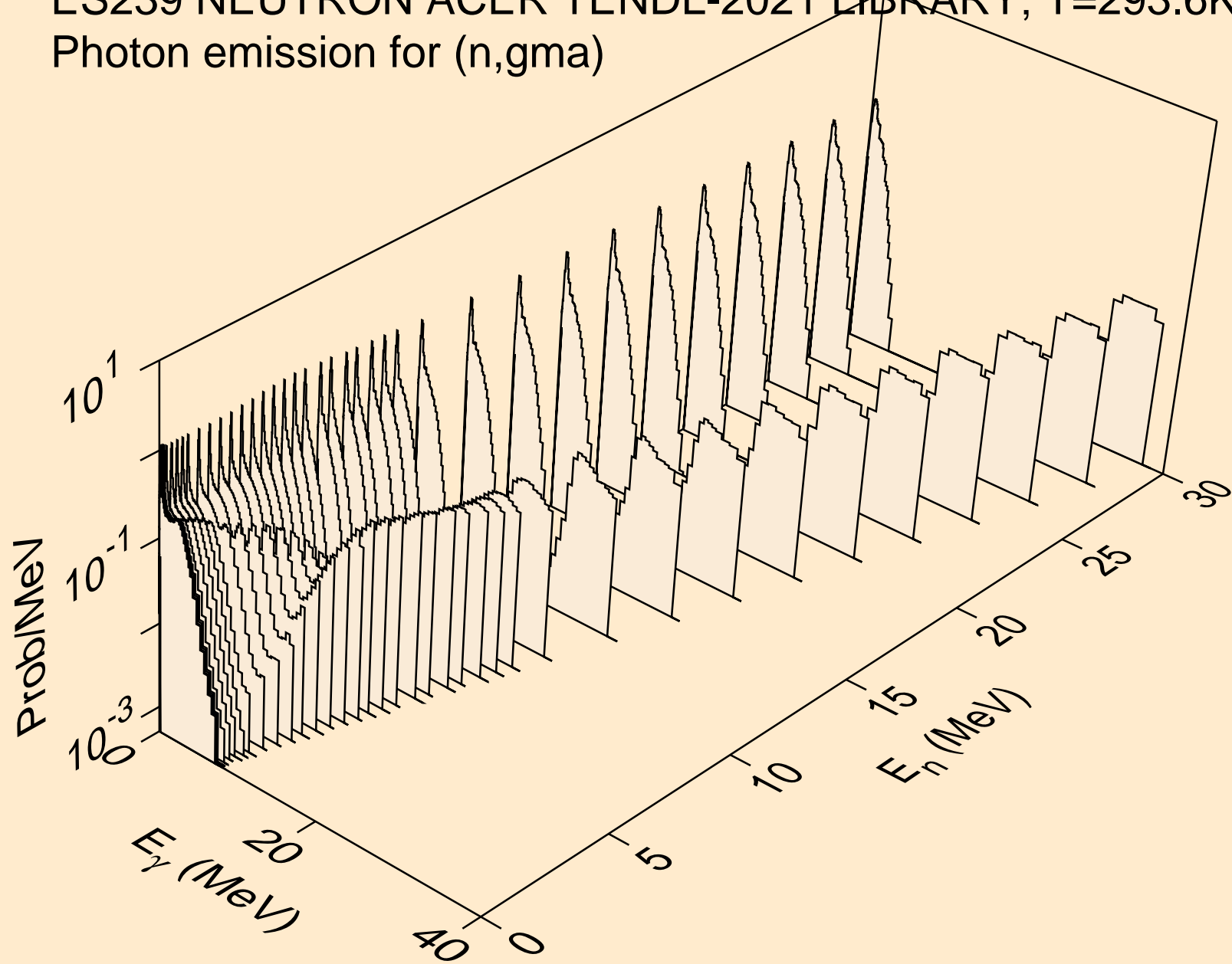


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,n\*c)

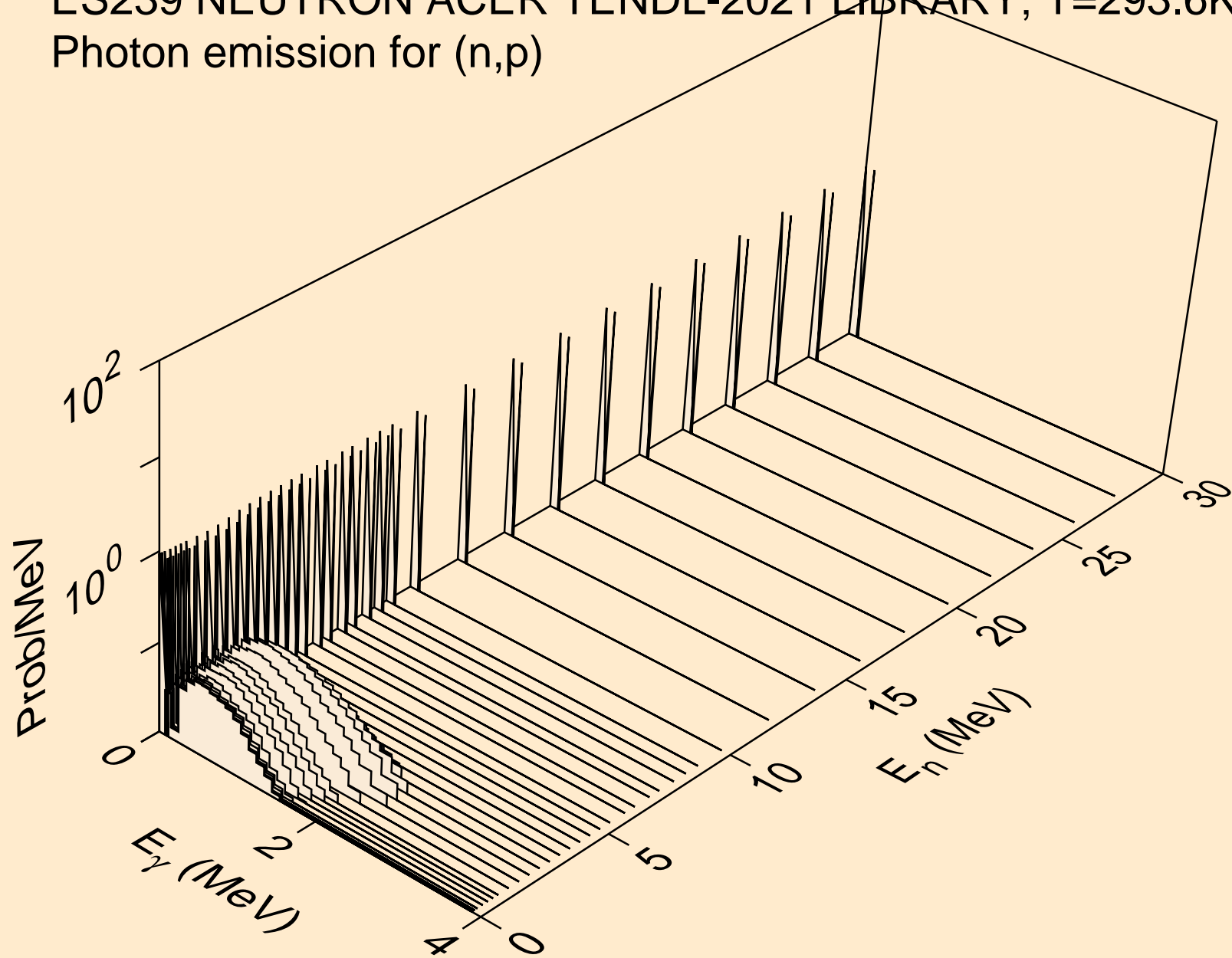




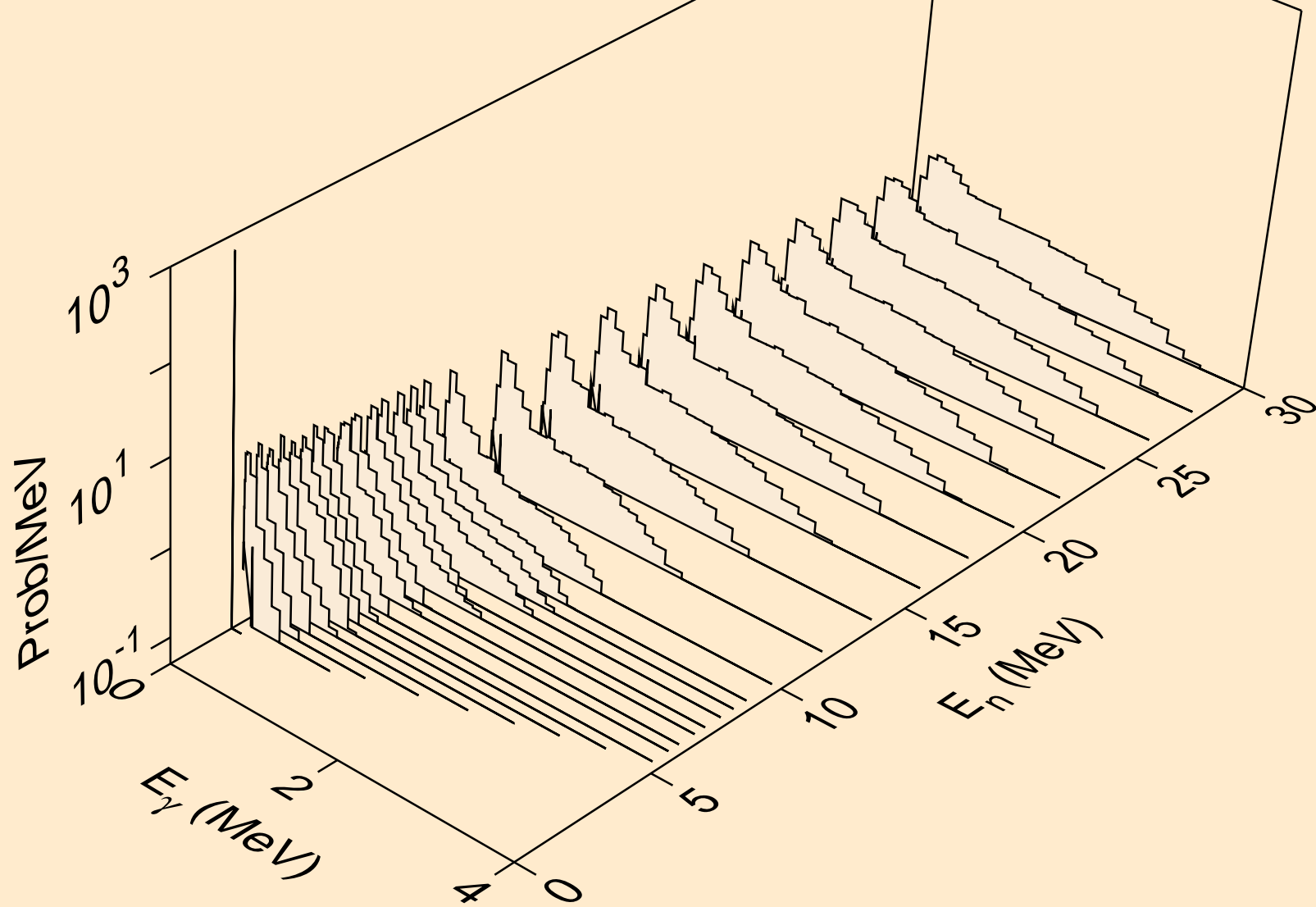
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,gma)



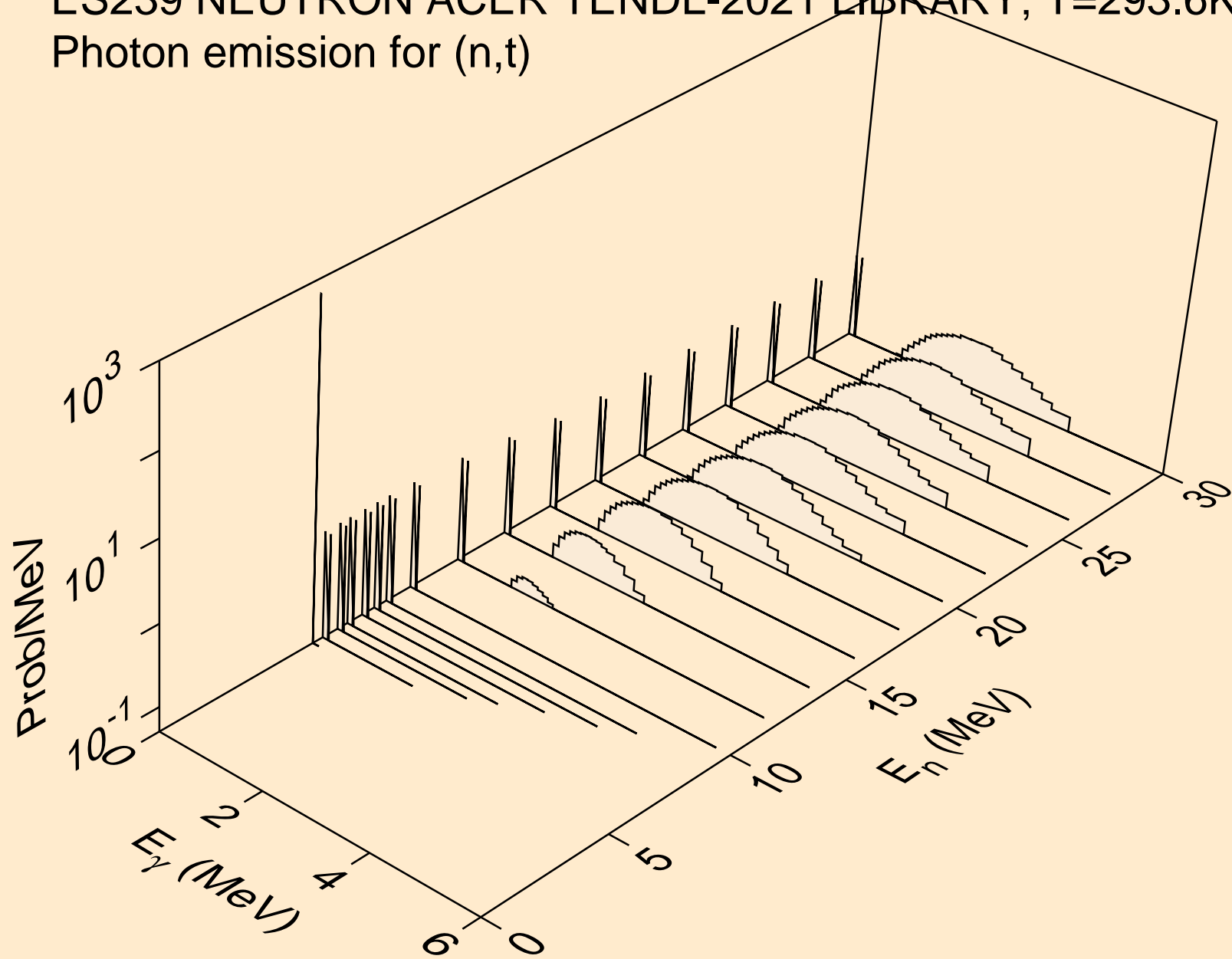
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



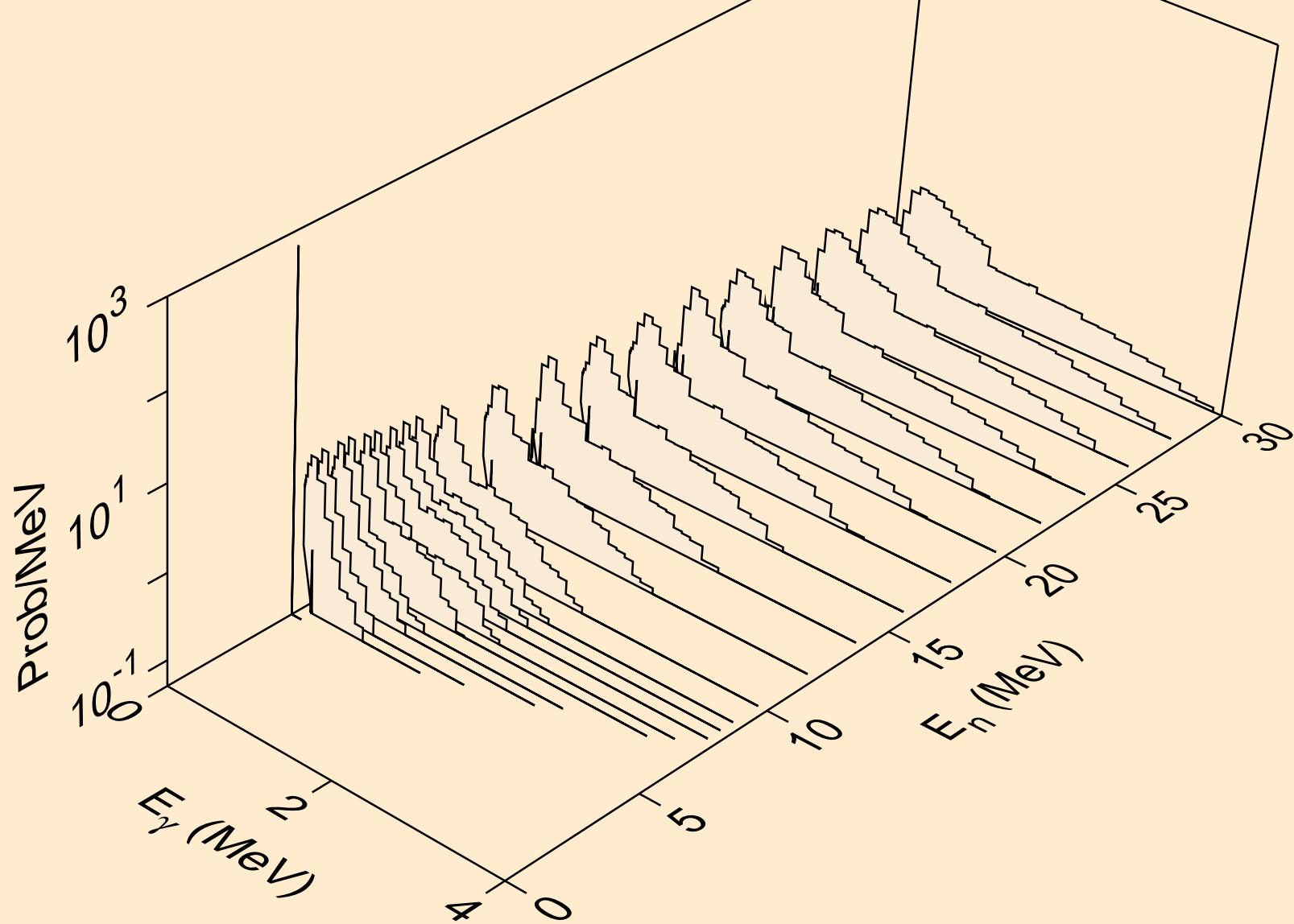
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,d)



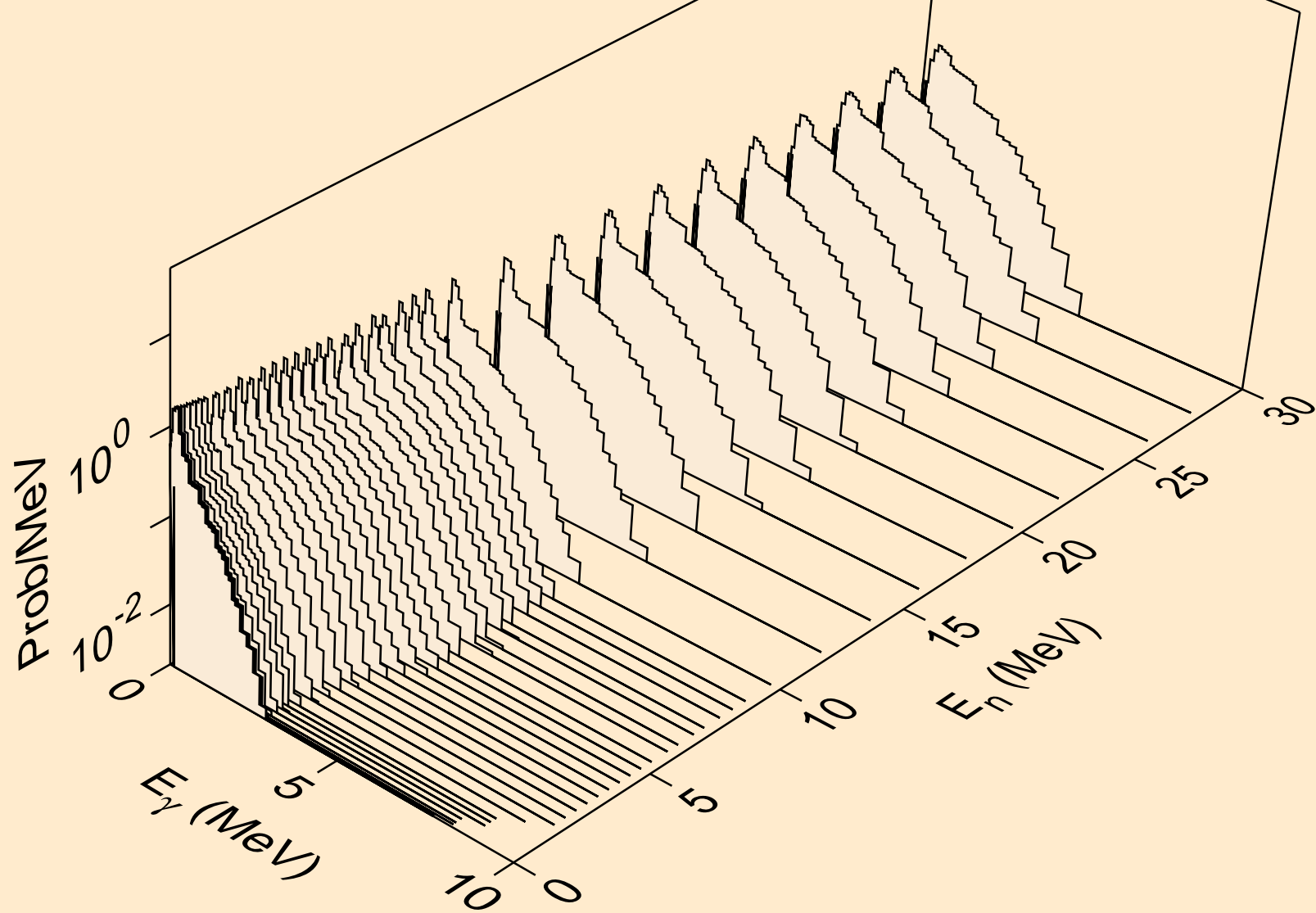
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,t)



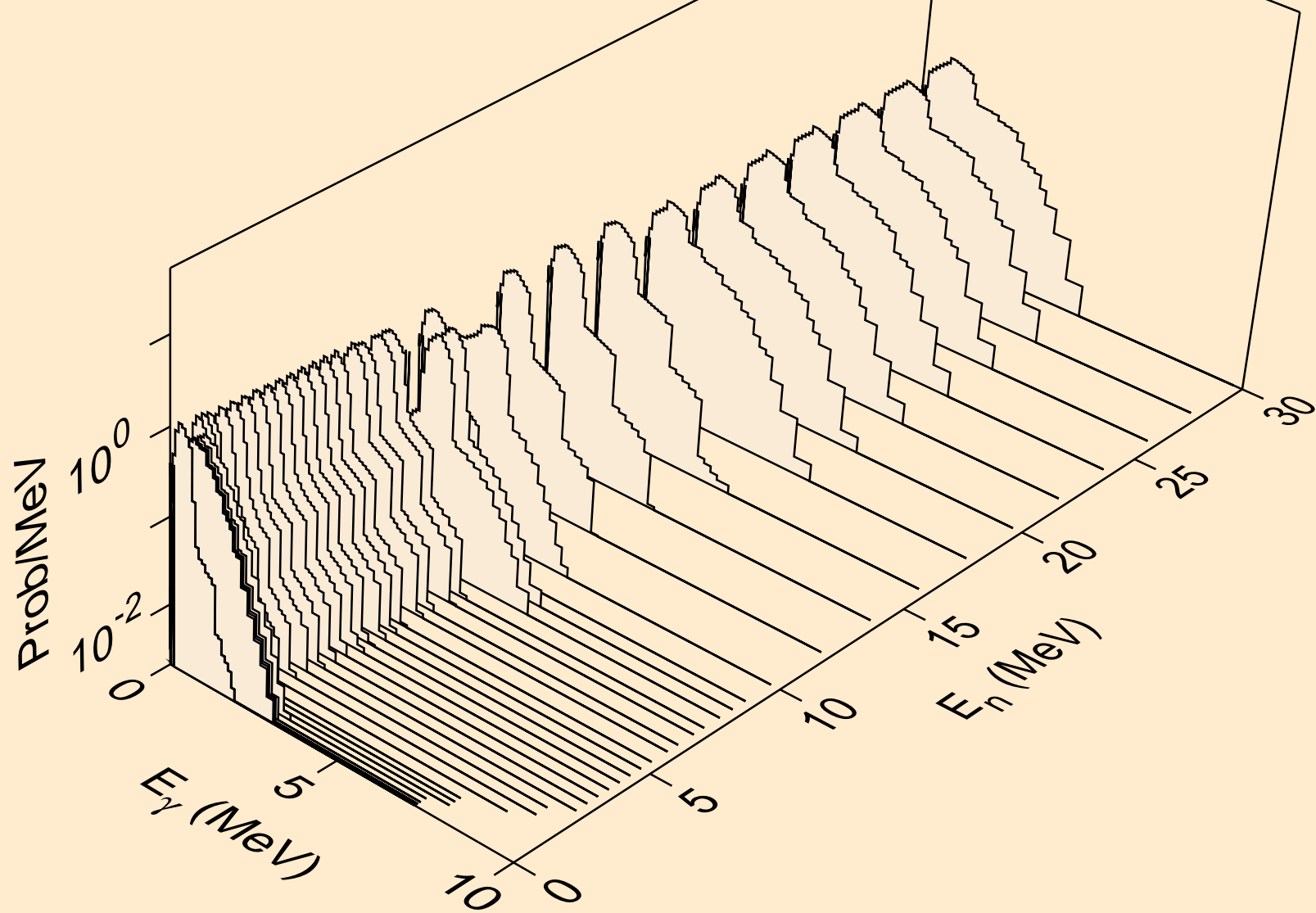
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,he3)



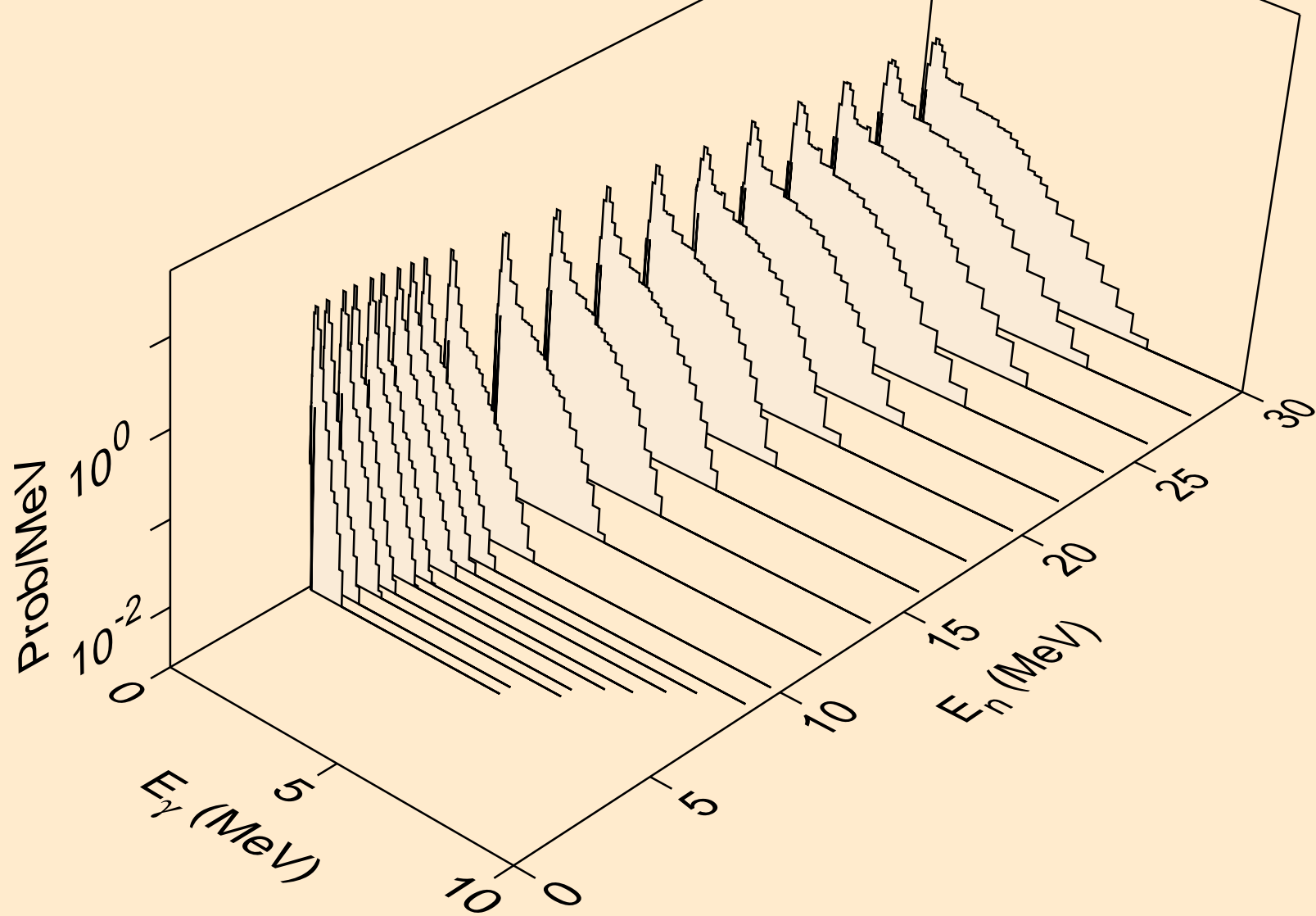
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,a)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2a)

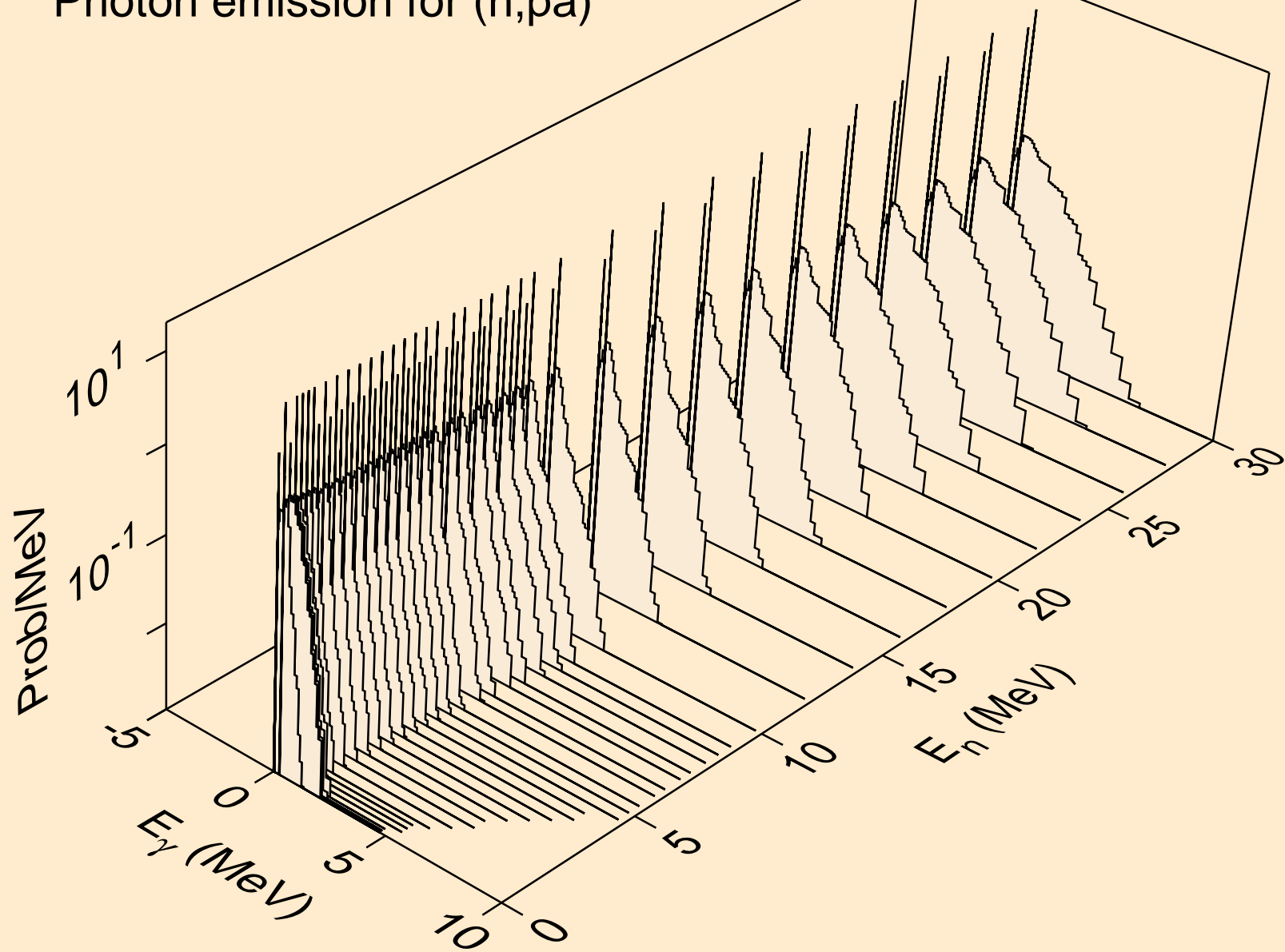


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,2p)

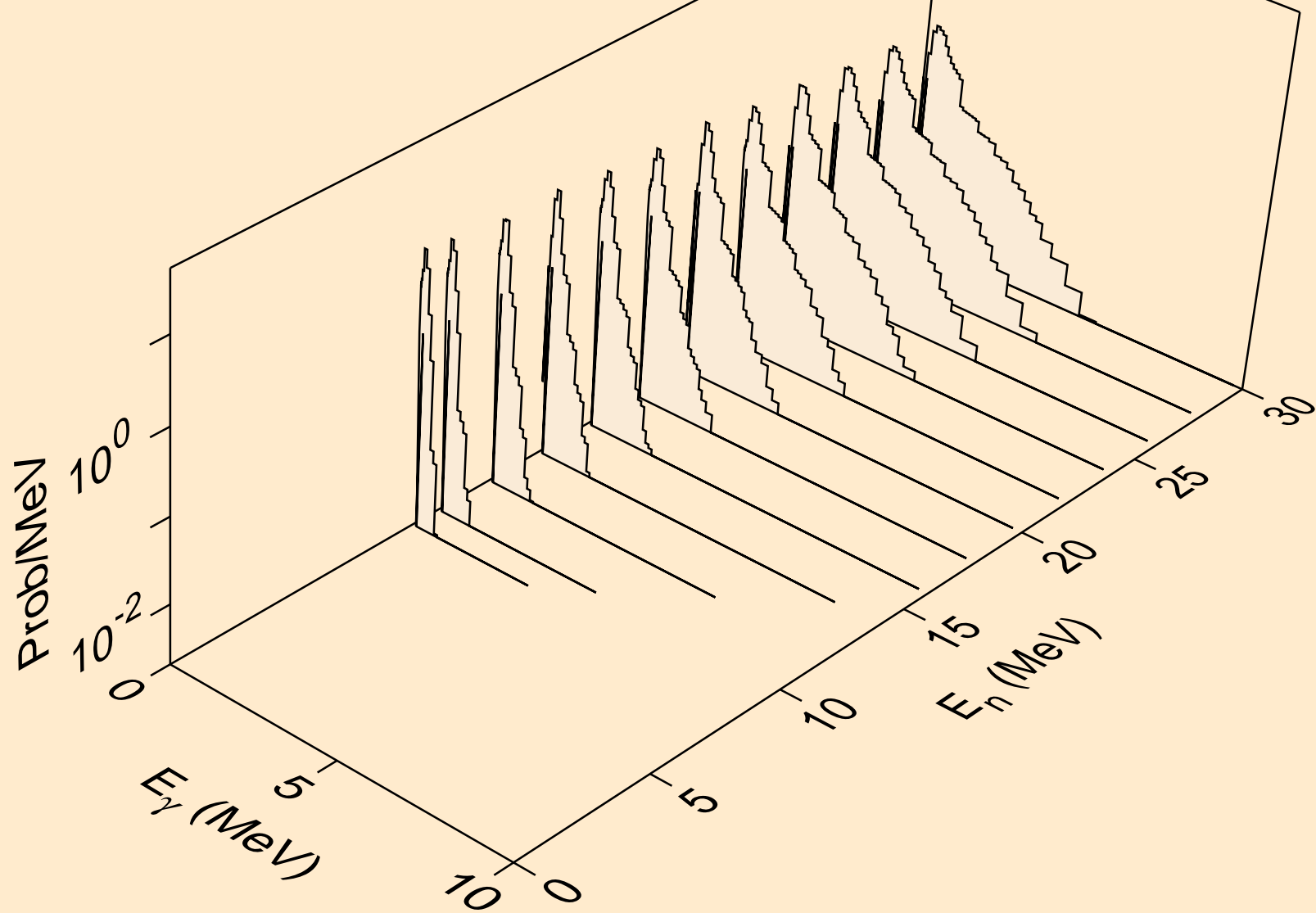




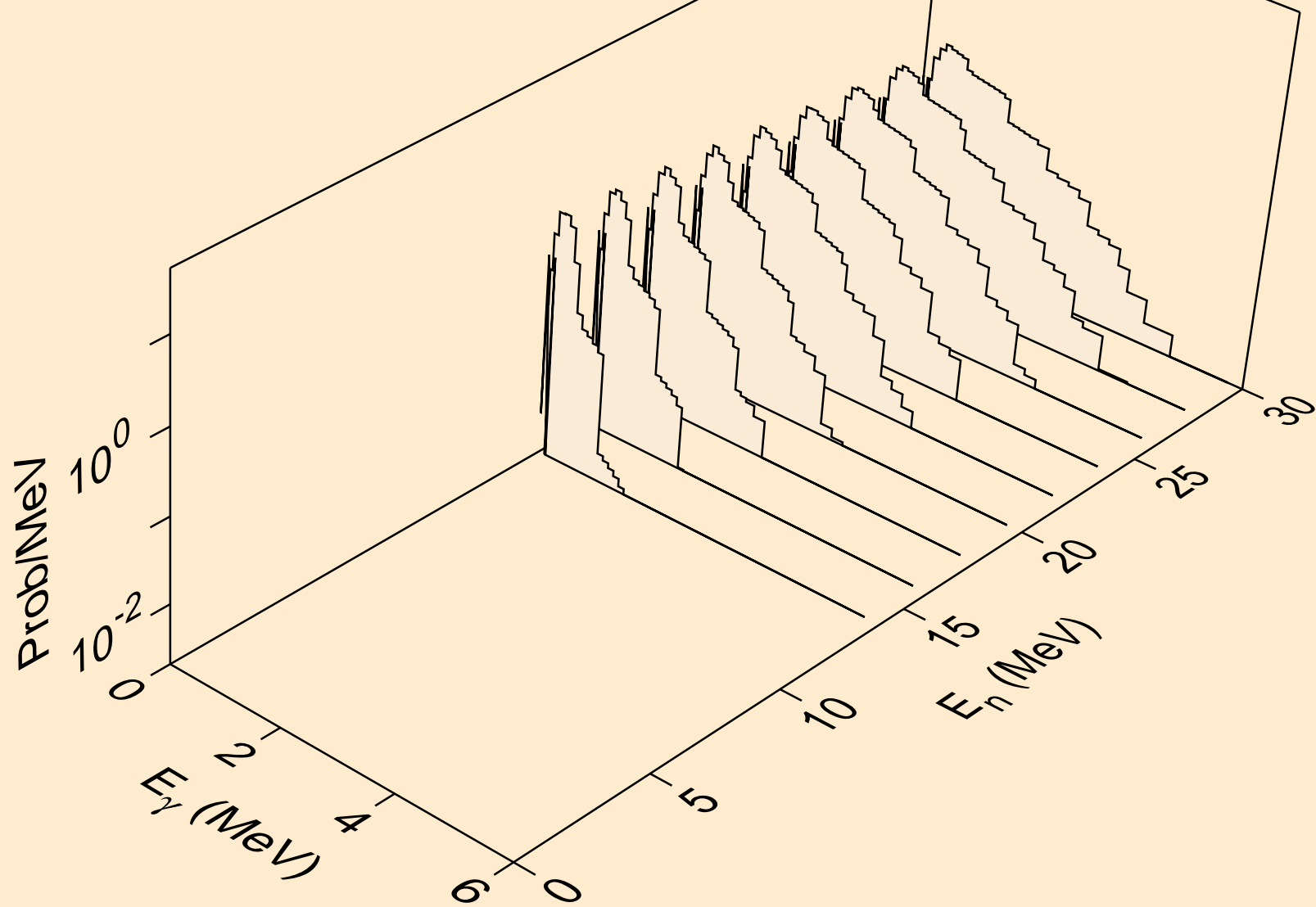
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,p)



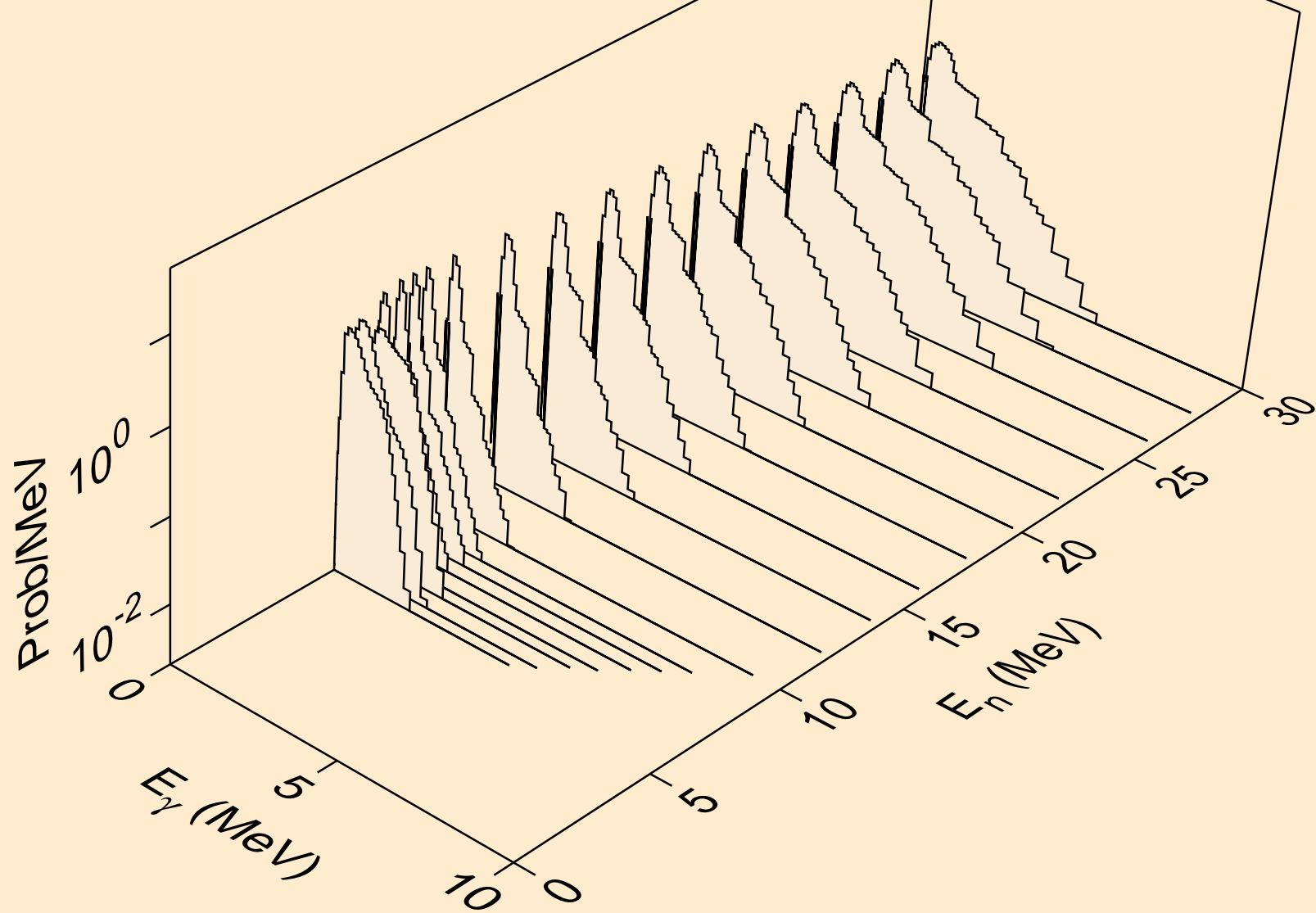
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pd)



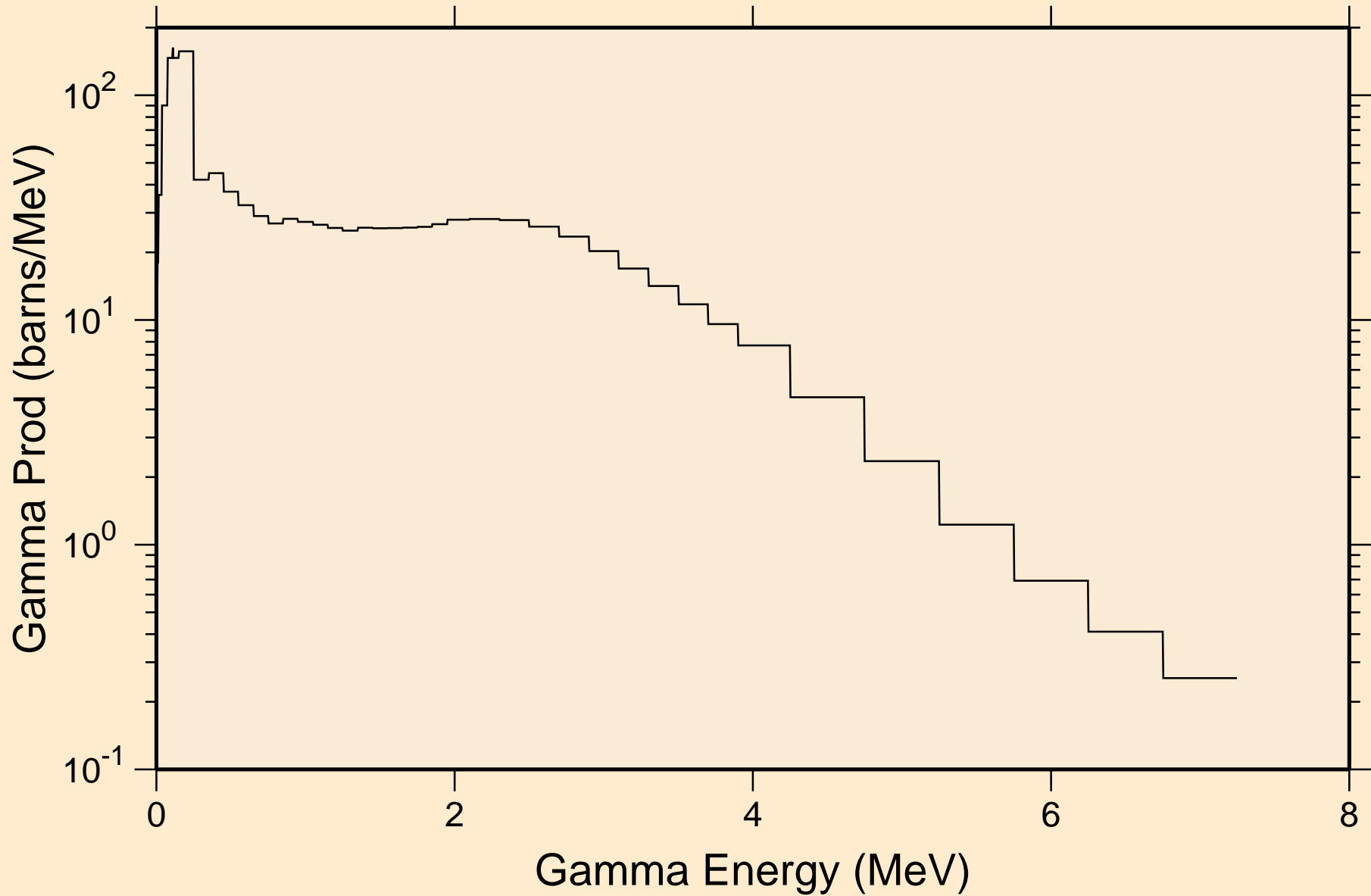
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,pt)



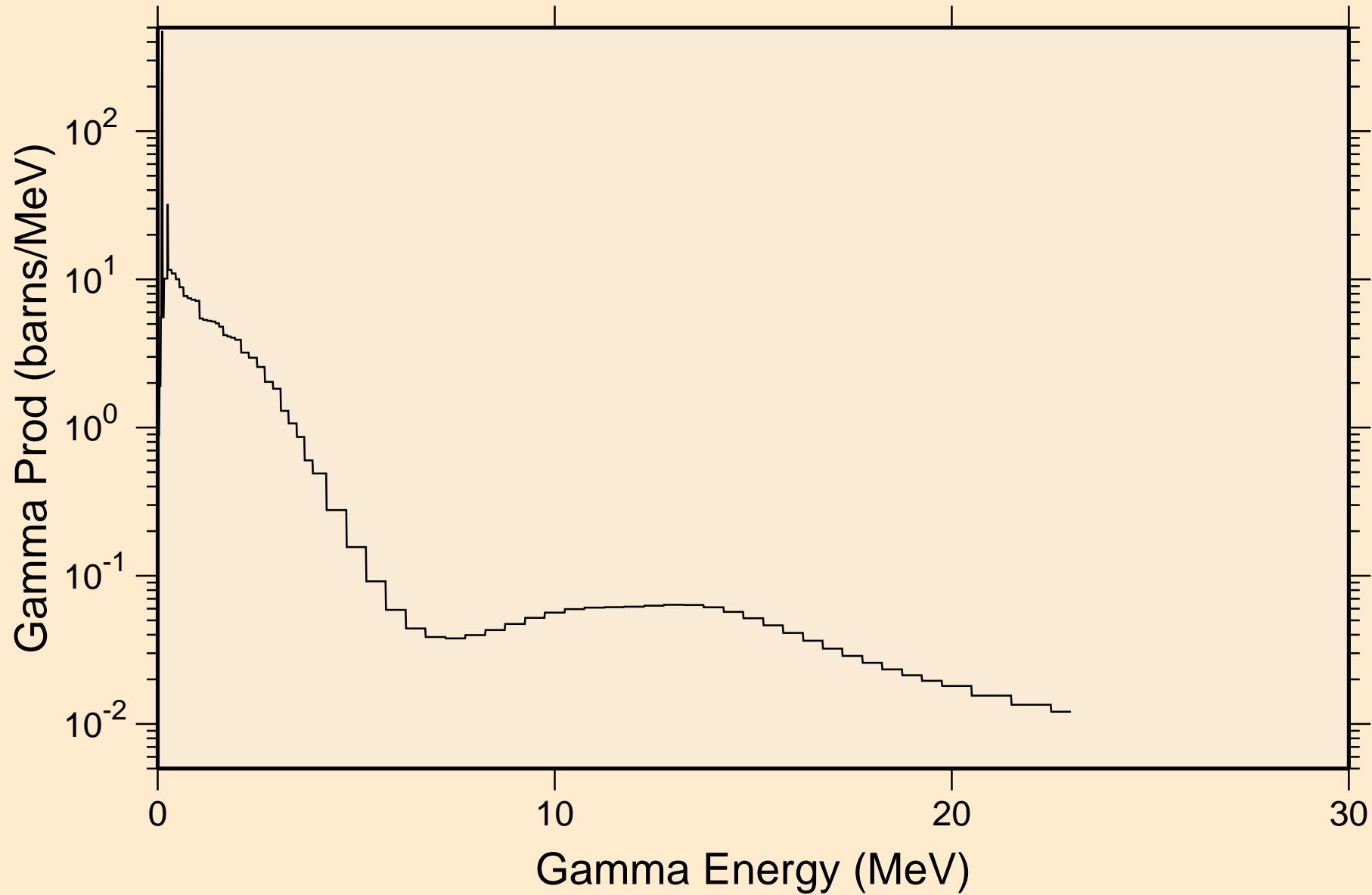
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Photon emission for (n,da)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
thermal capture photon spectrum

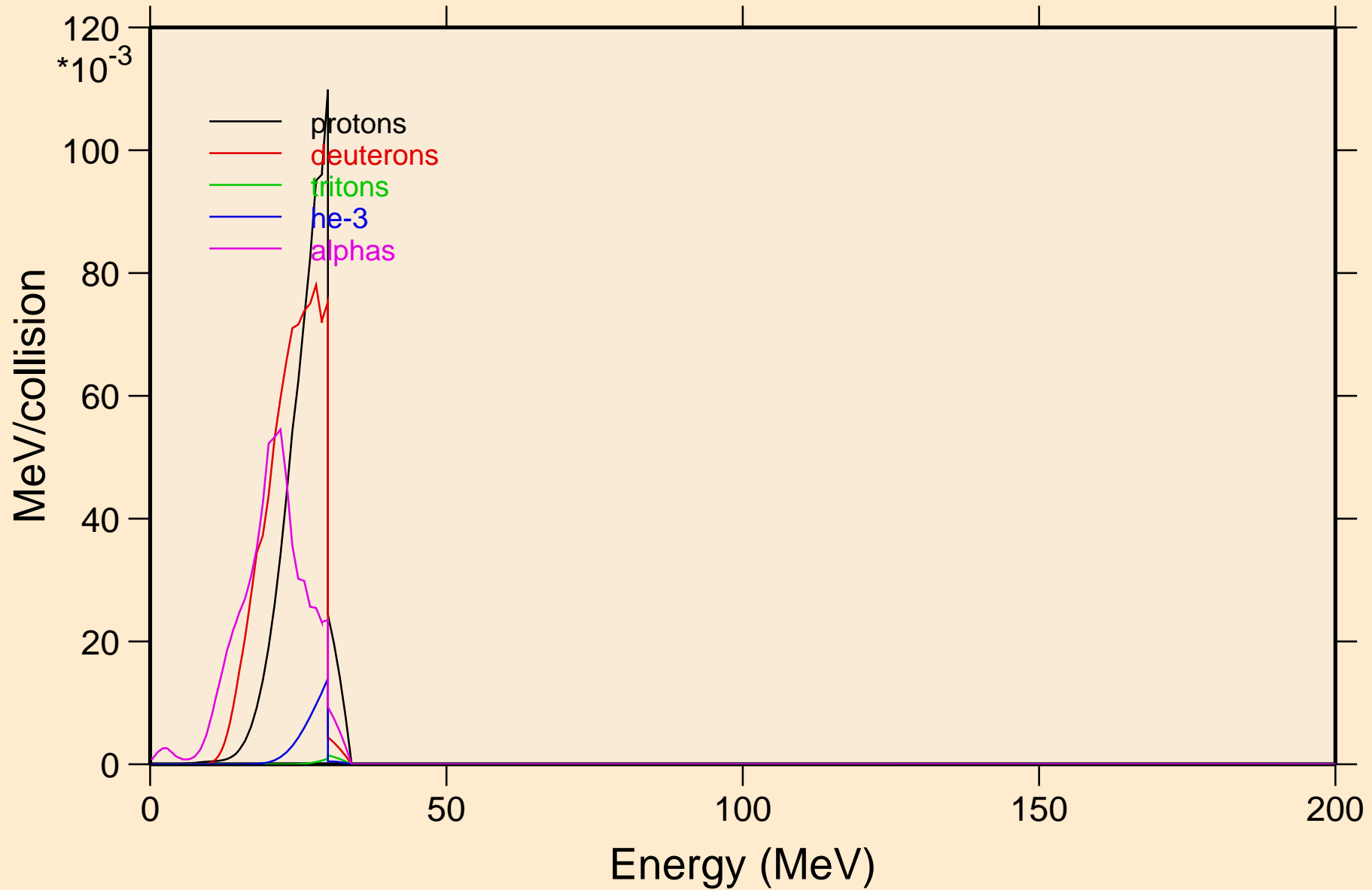


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
14 MeV photon spectrum

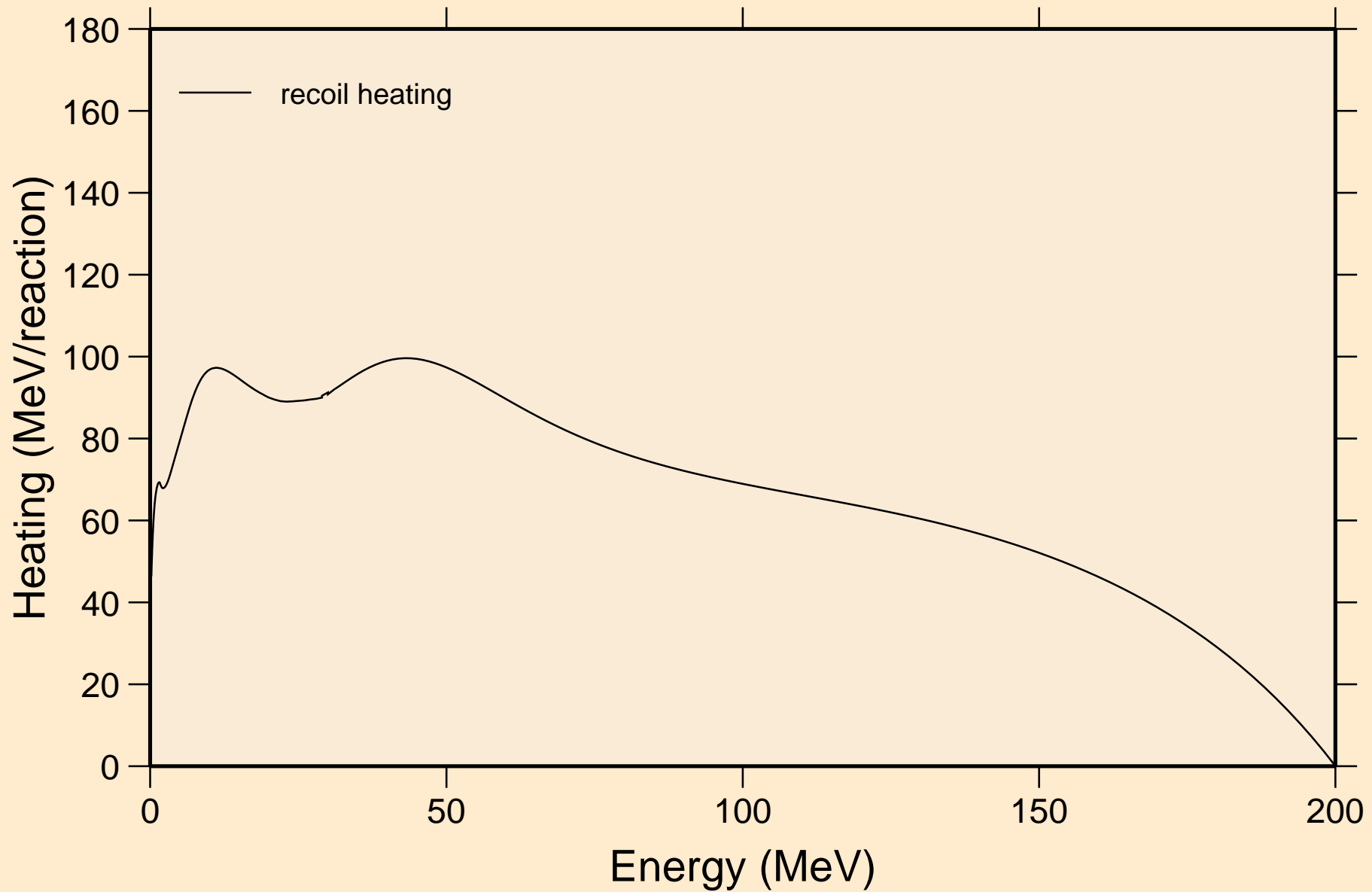


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

## Particle heating contributions



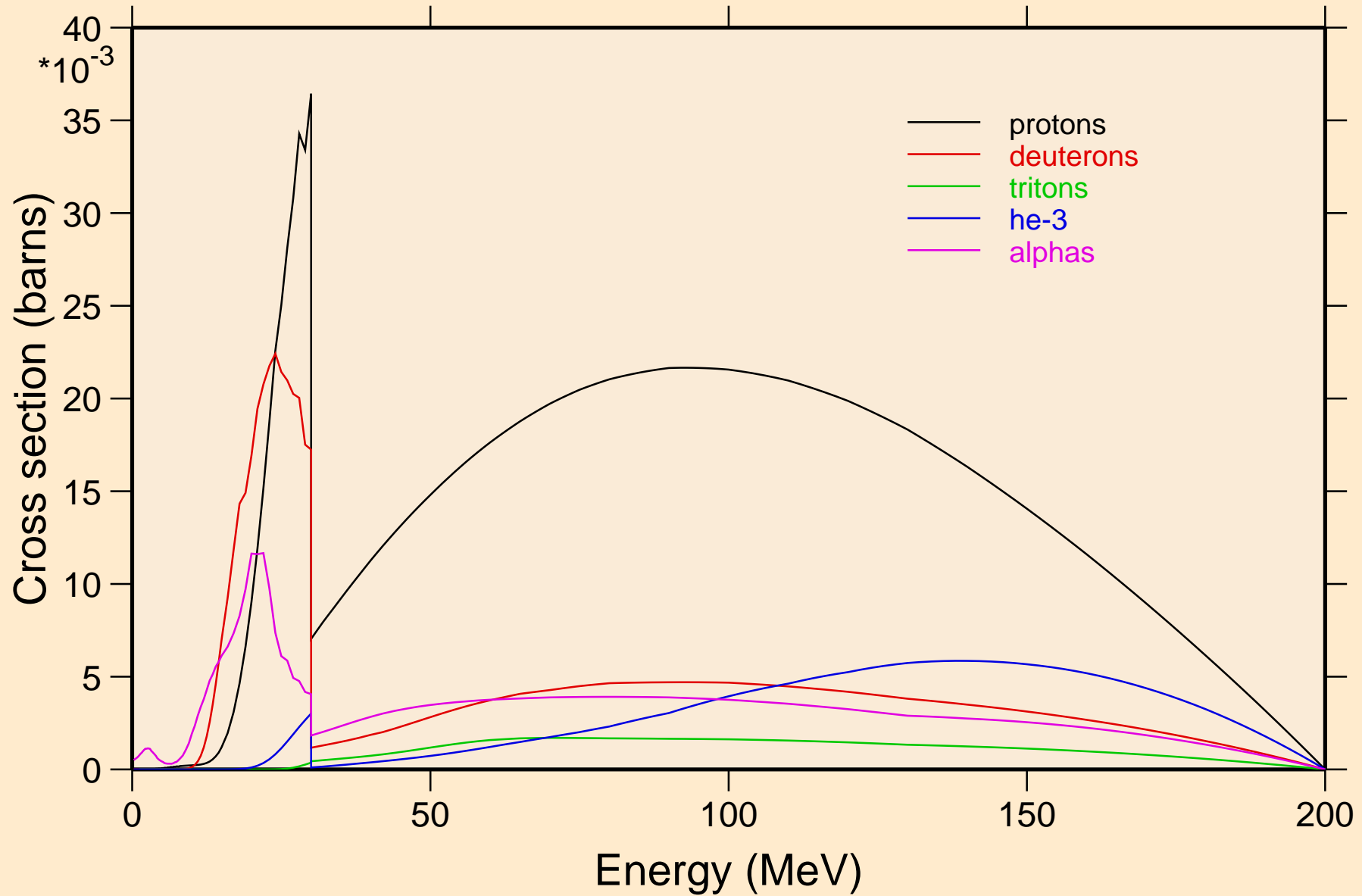
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
Recoil Heating



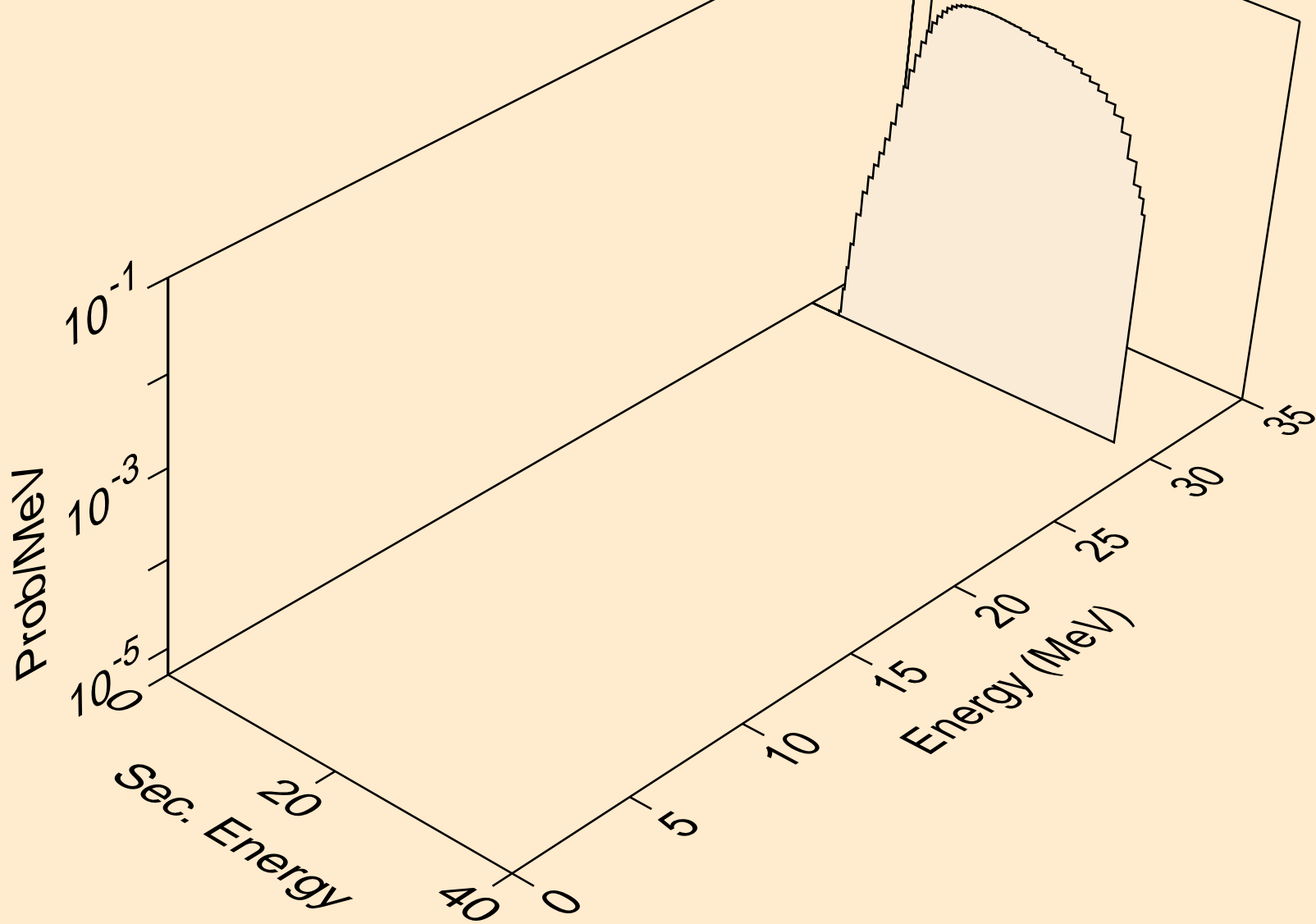


# ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K

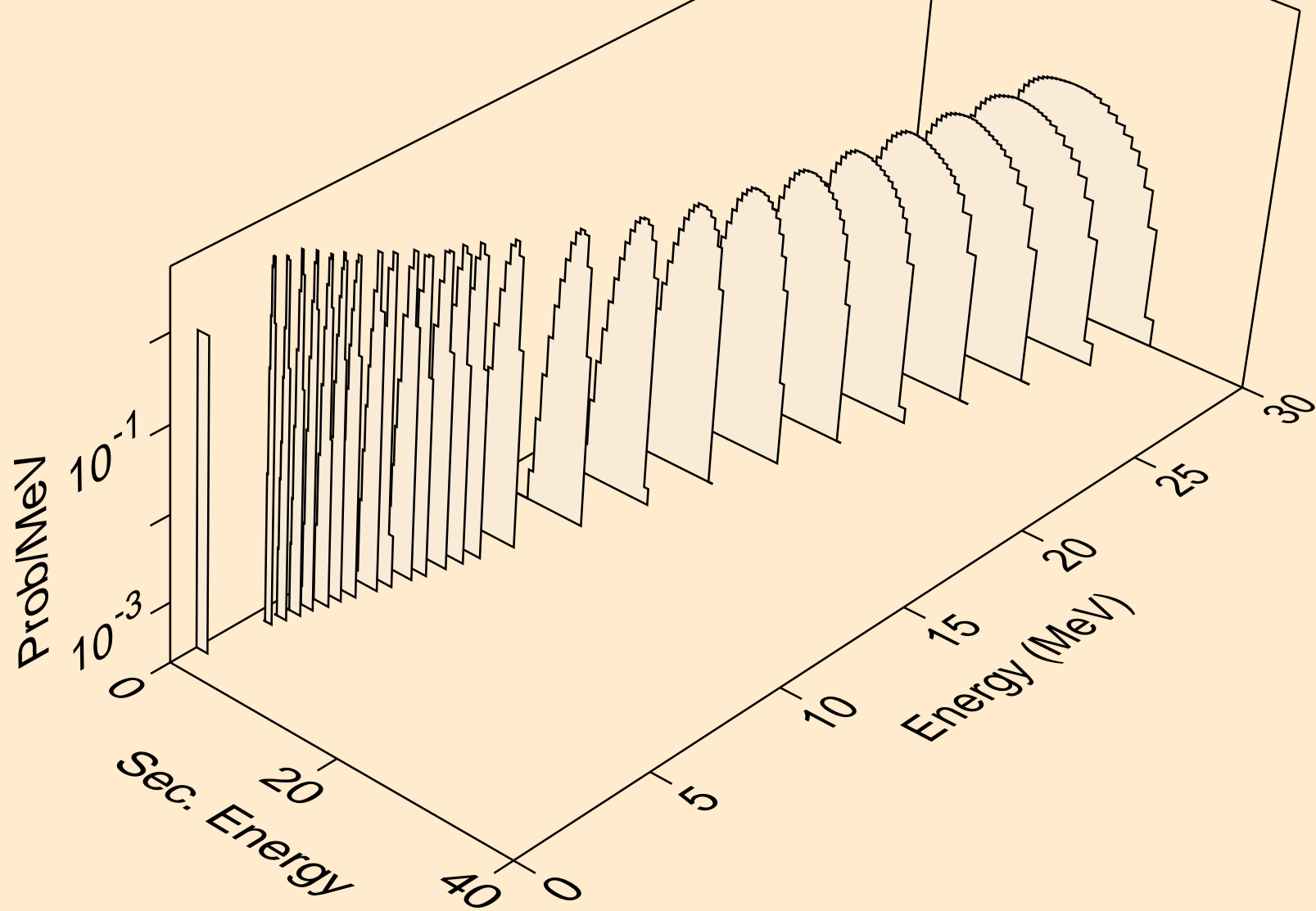
## Particle production cross sections



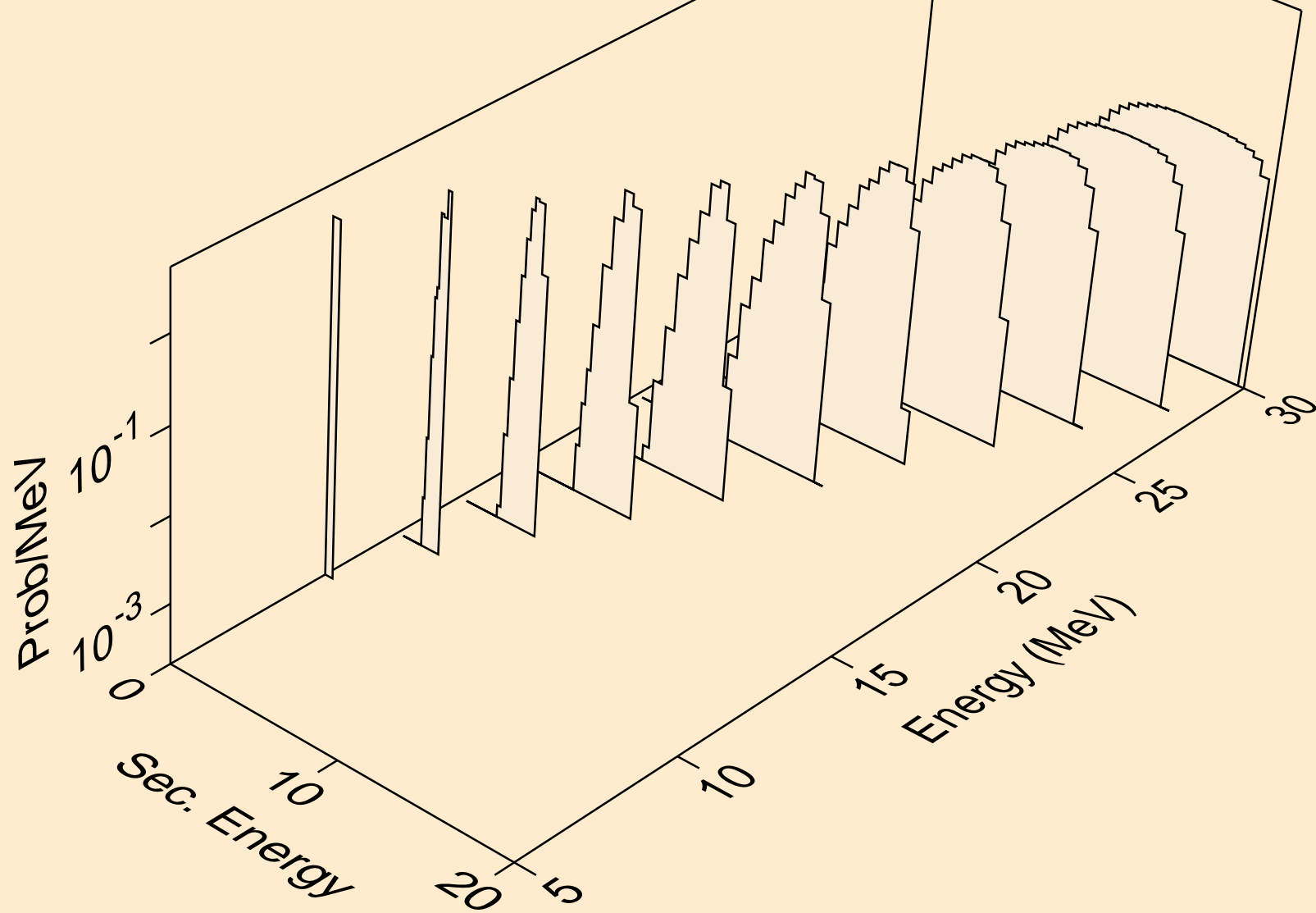
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,x)



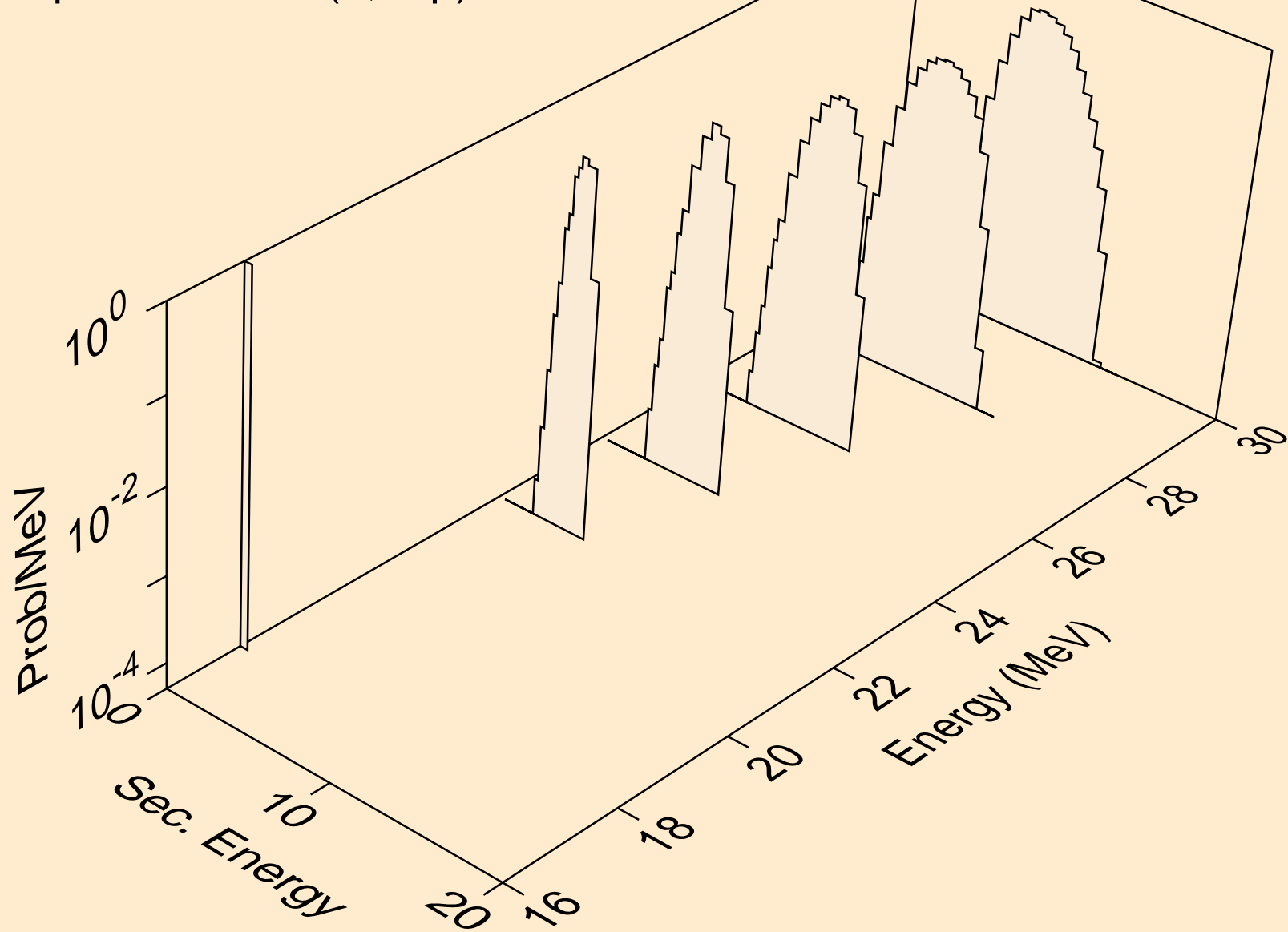
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,n\*)p



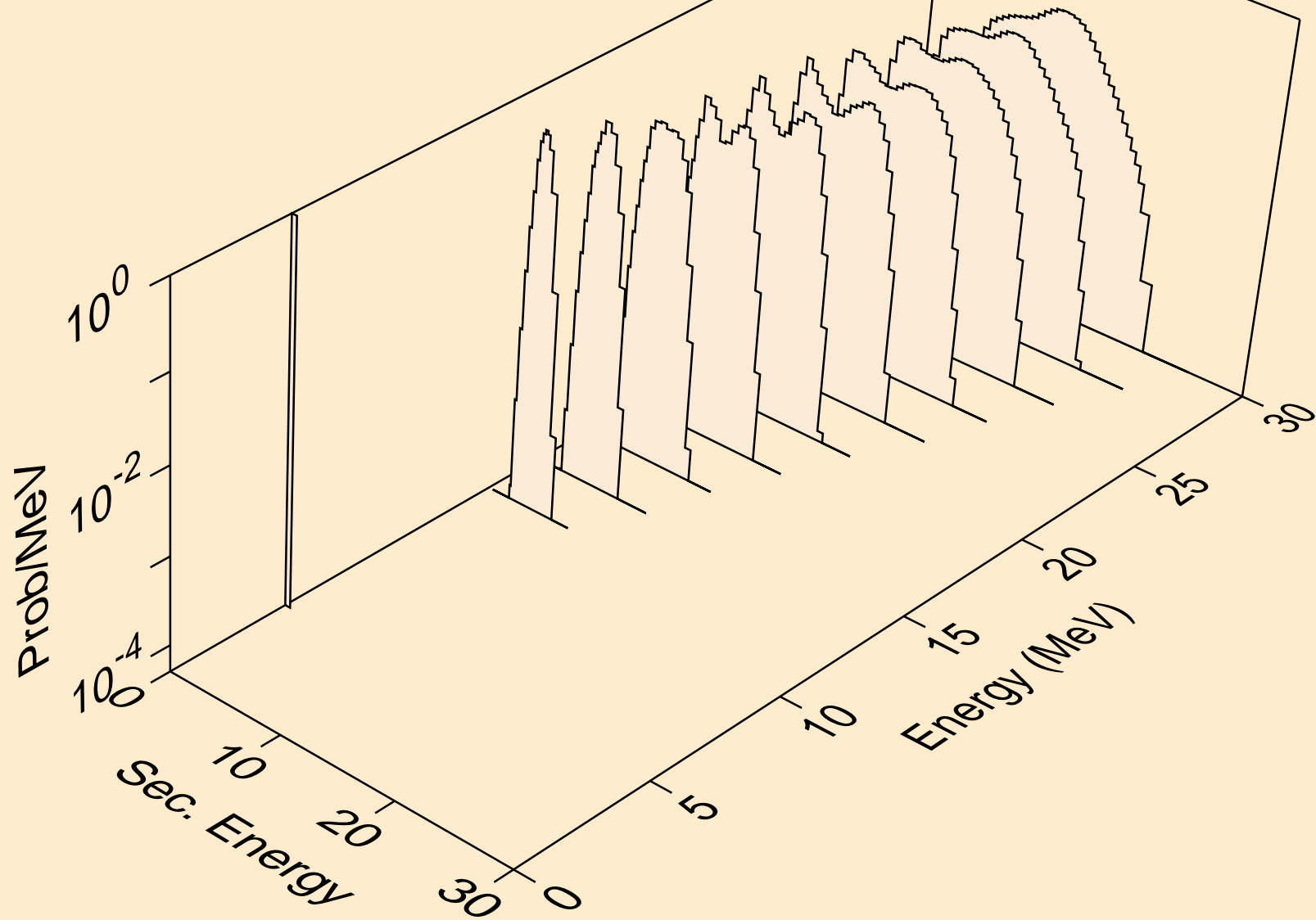
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)



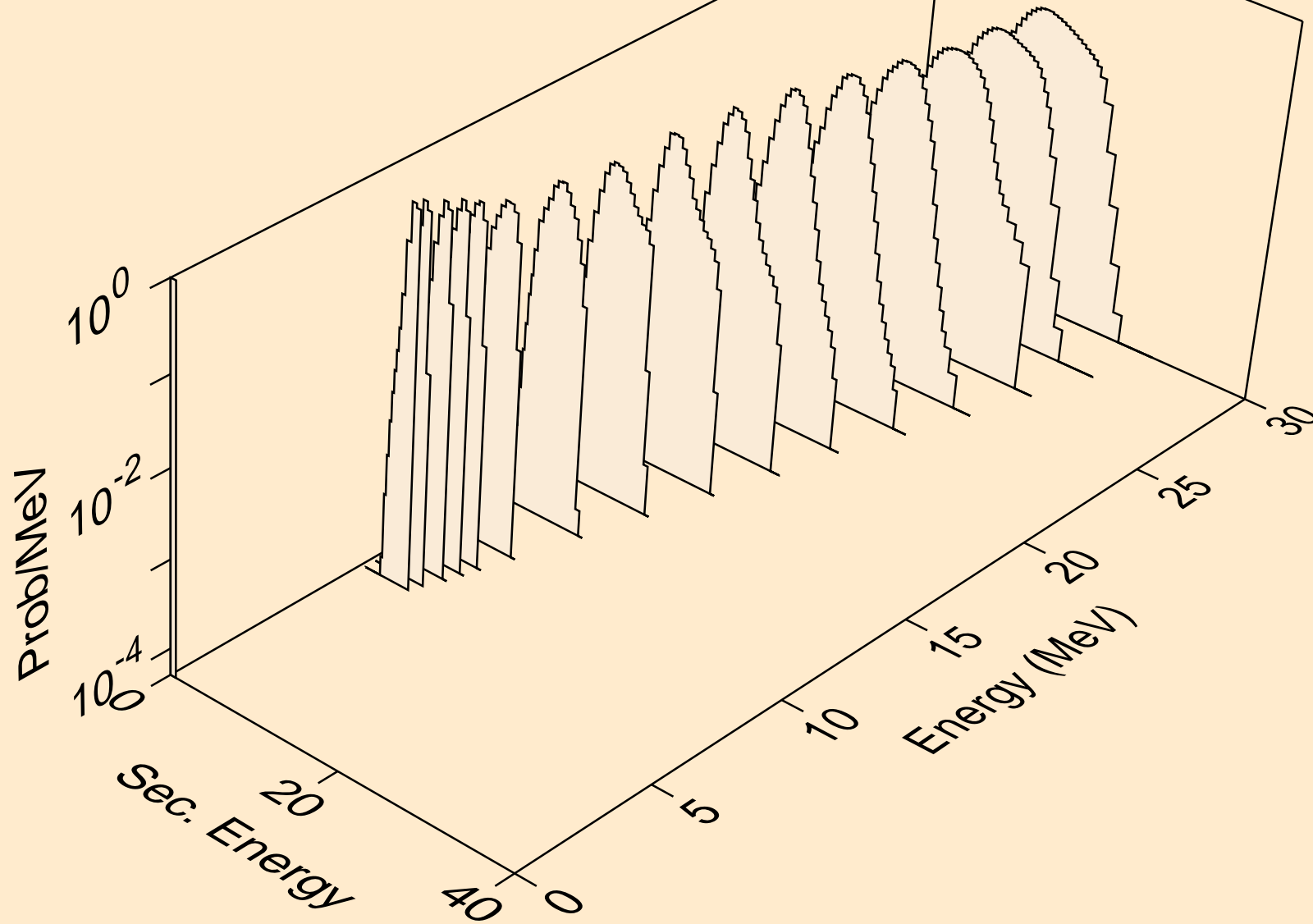
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,3np)



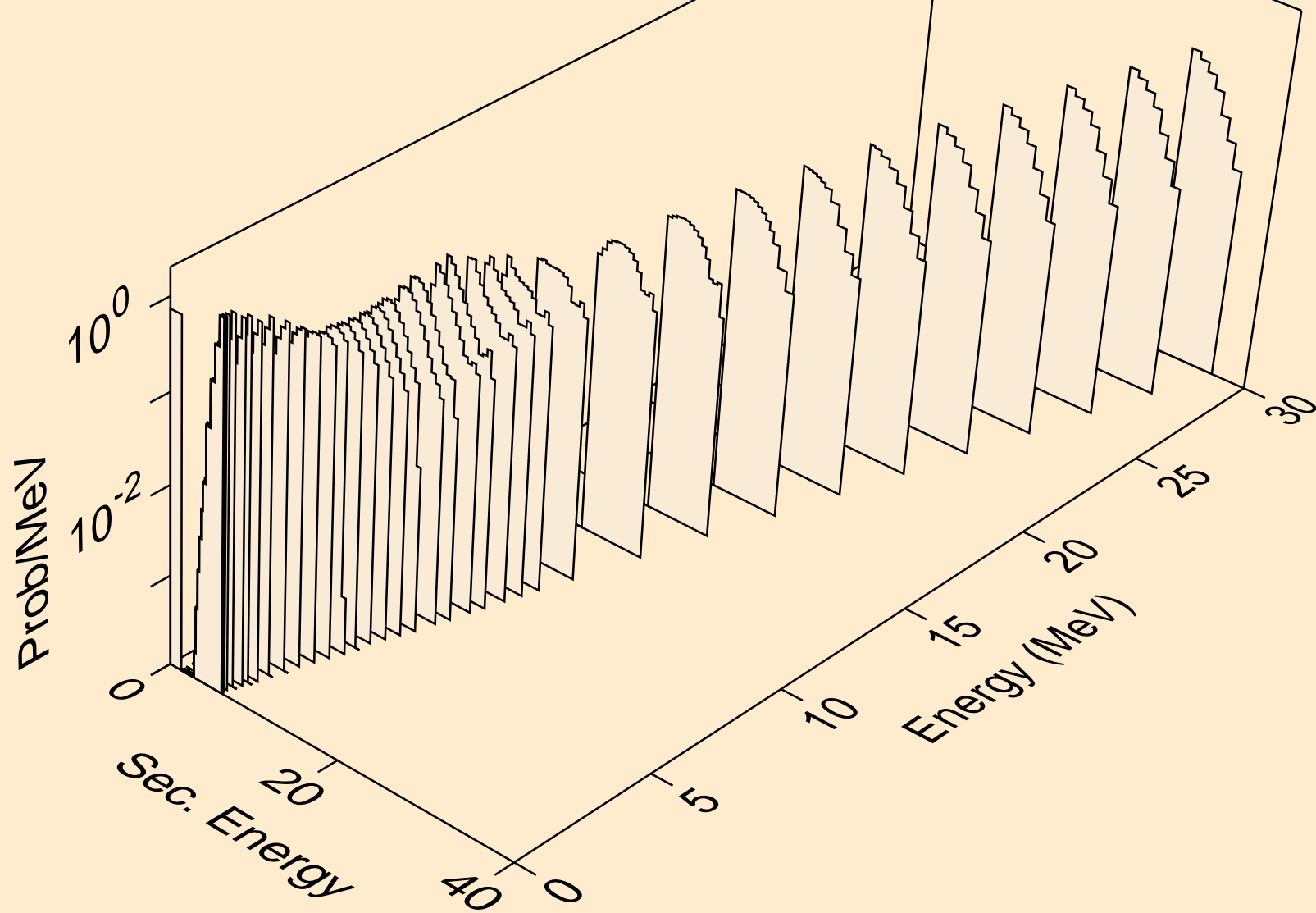
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2np)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,npa)

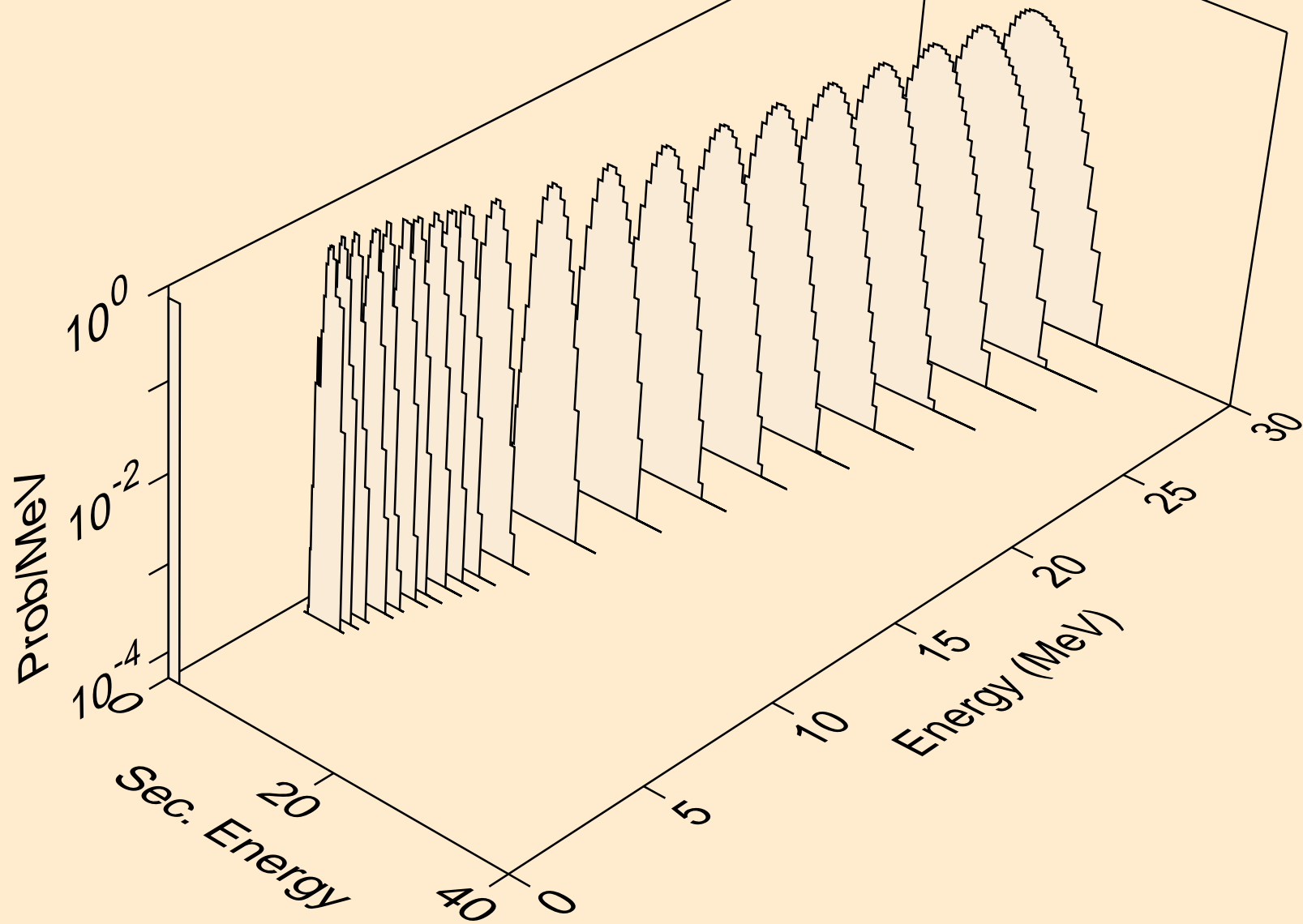


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)

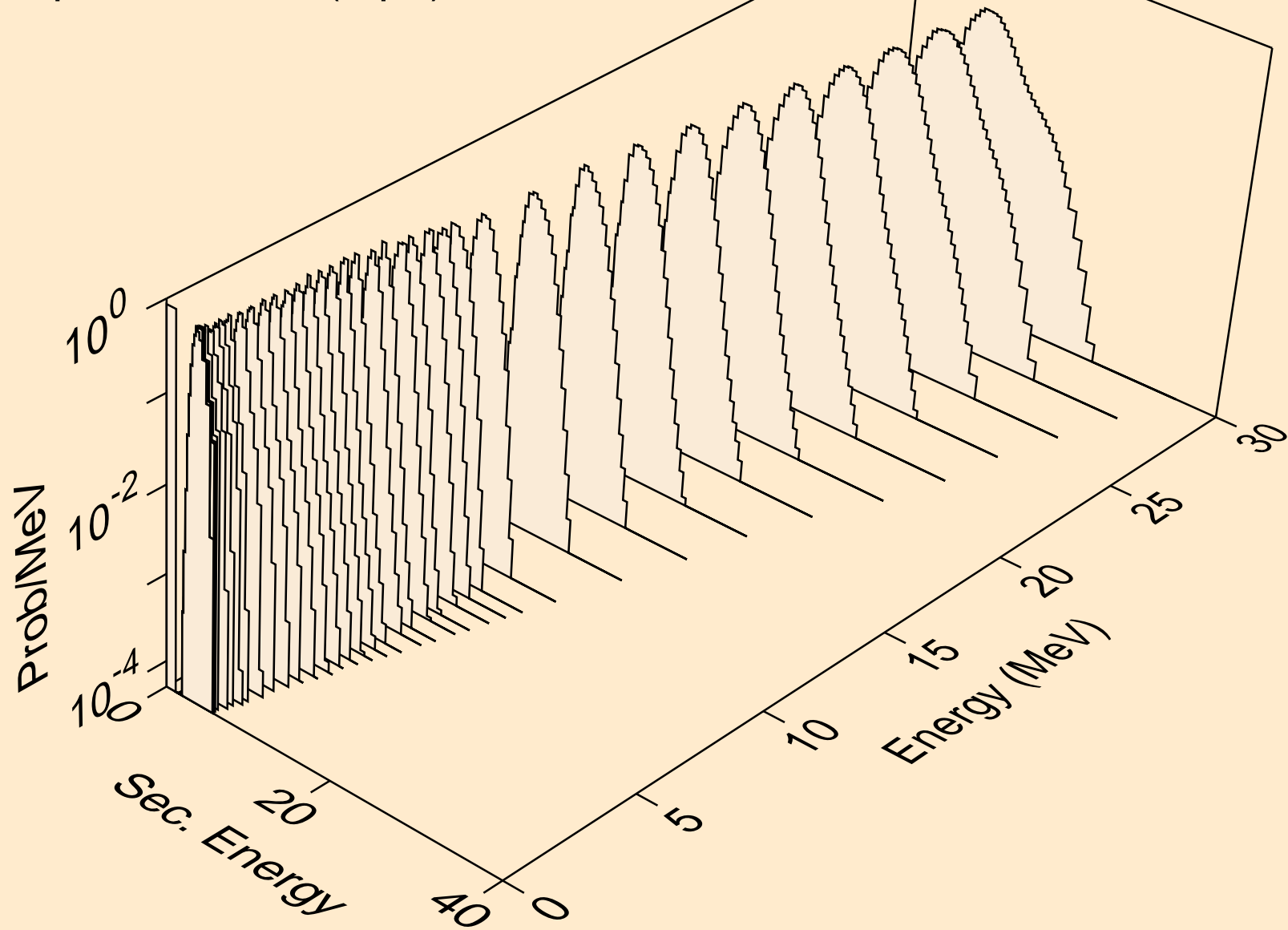




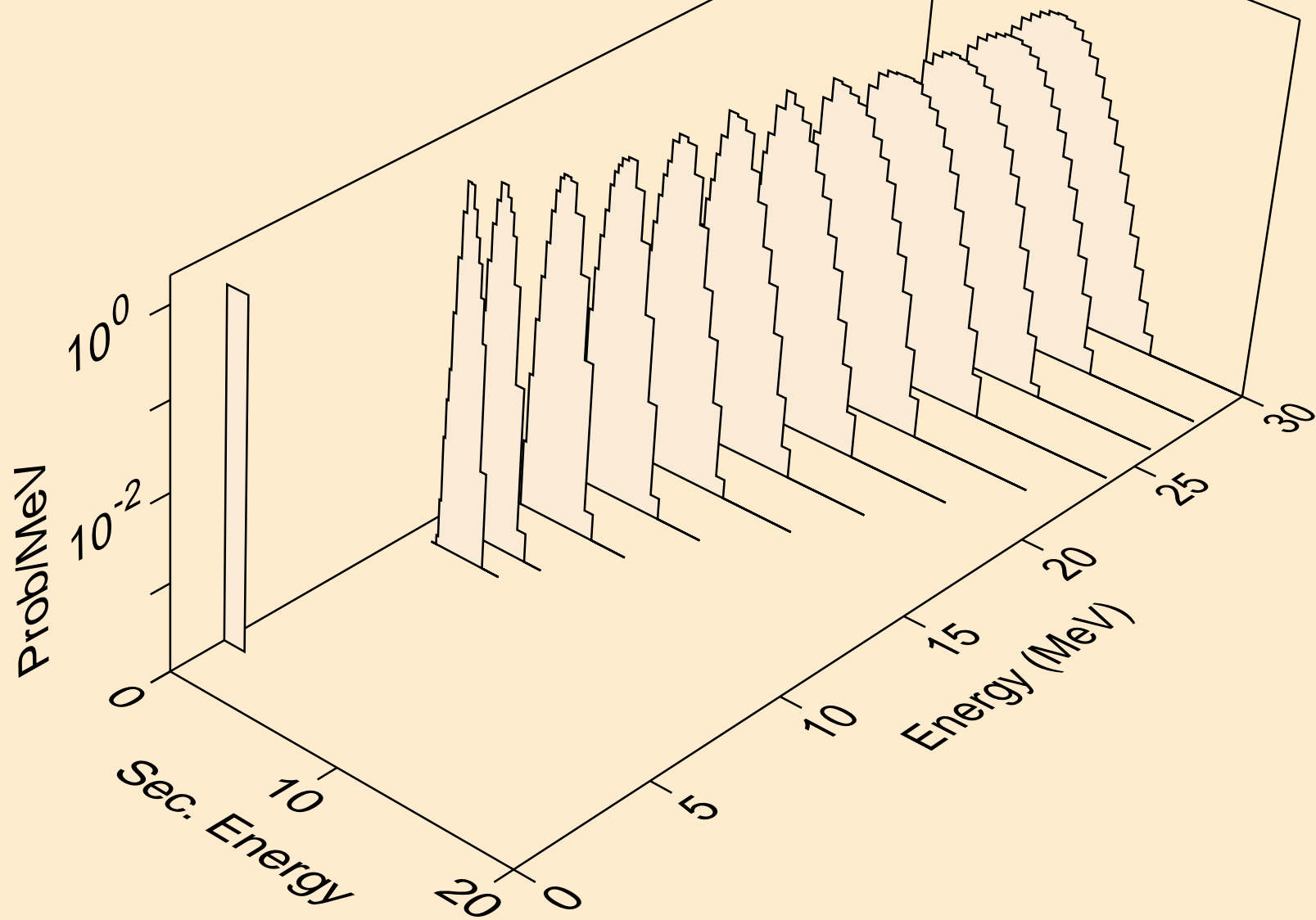
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,2p)



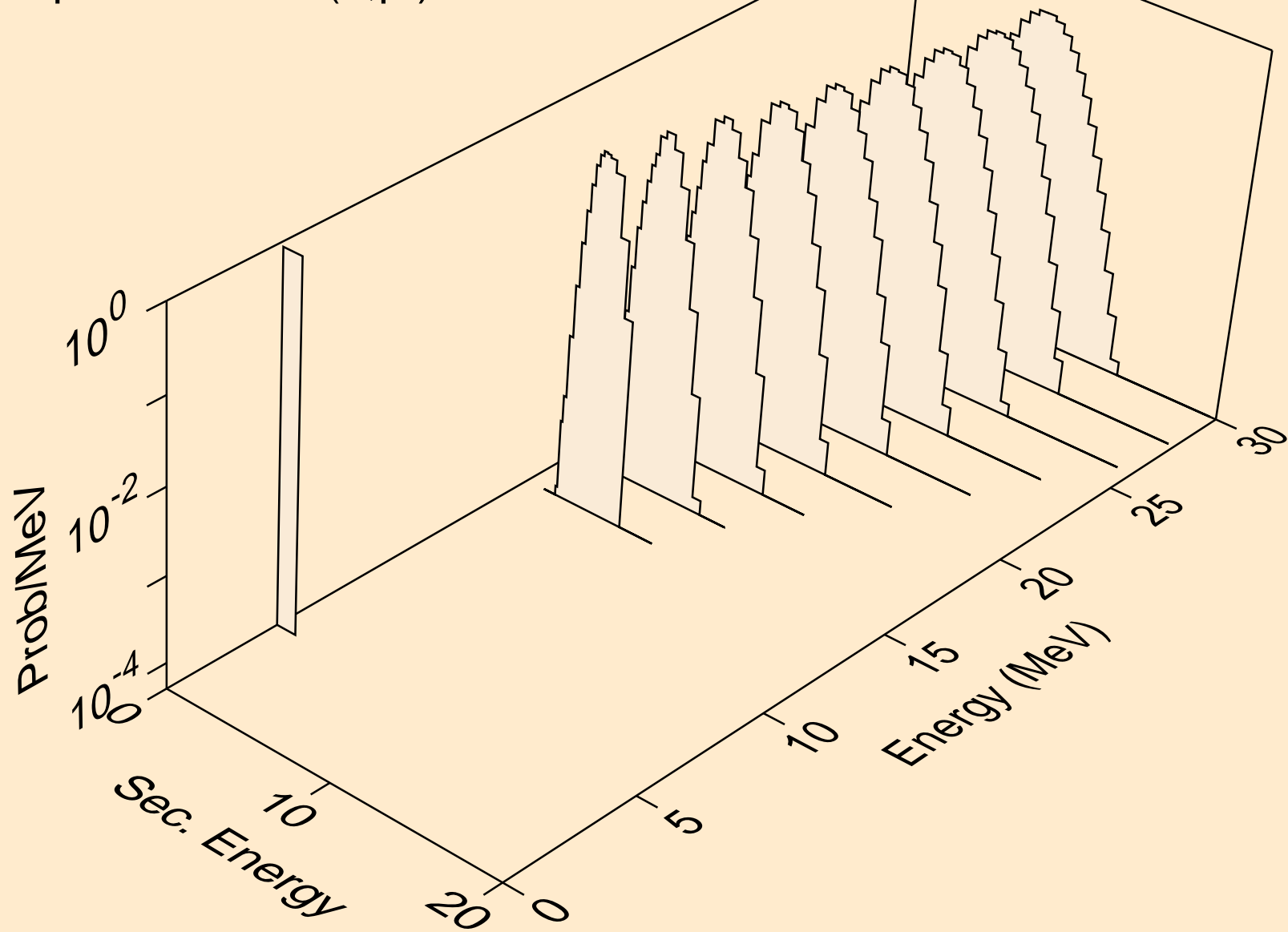
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,p)



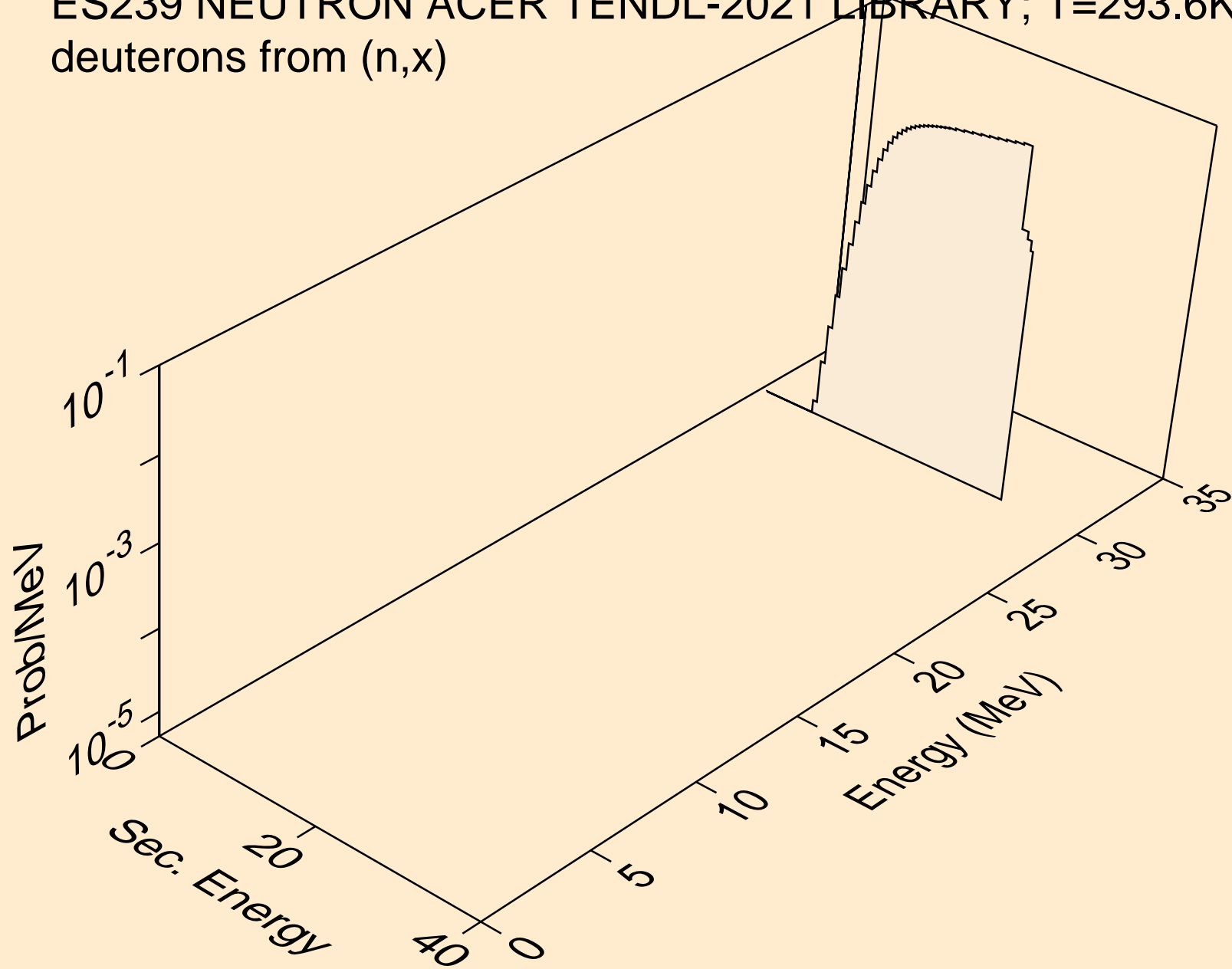
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pd)



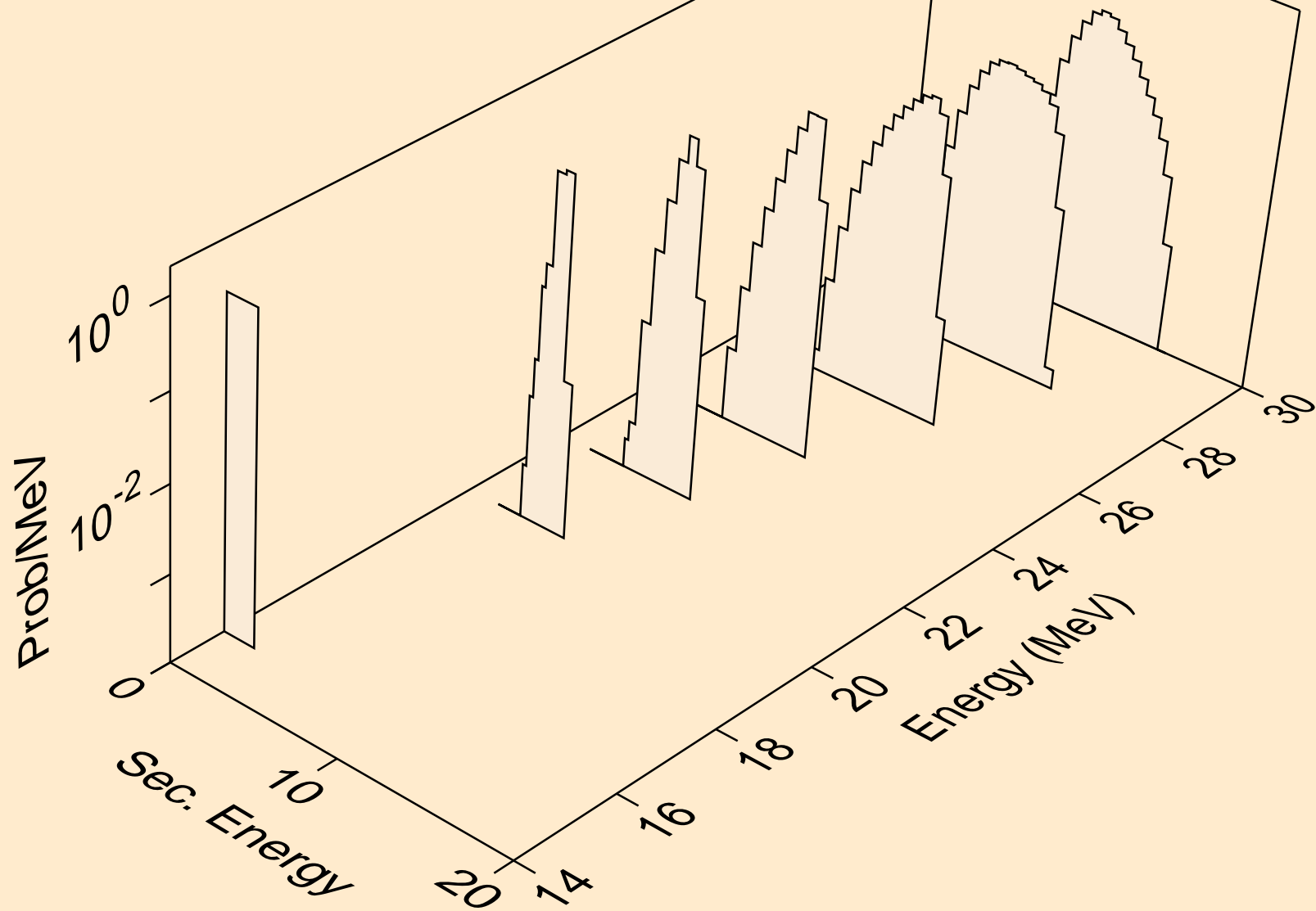
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
protons from (n,pt)



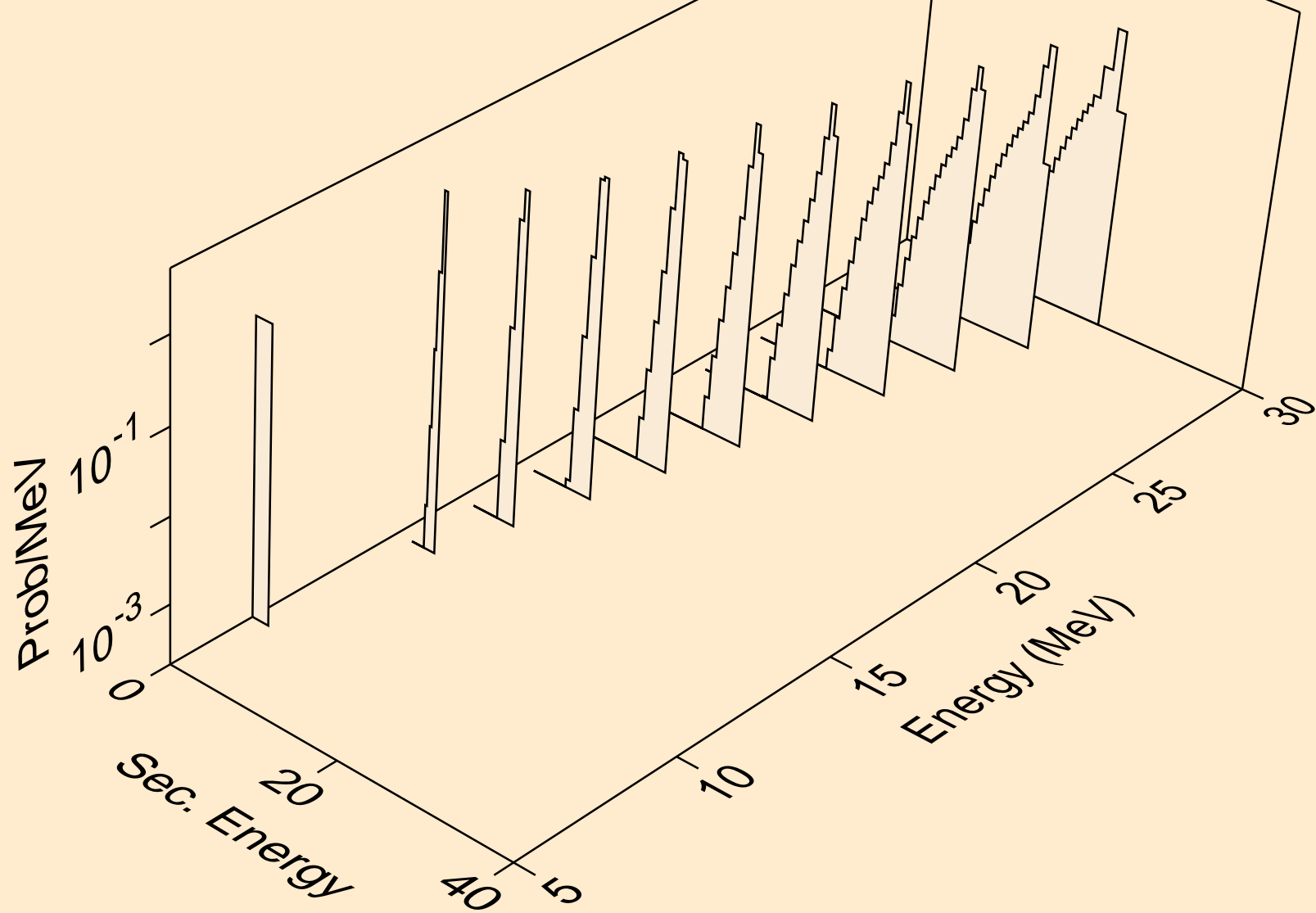
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,x)



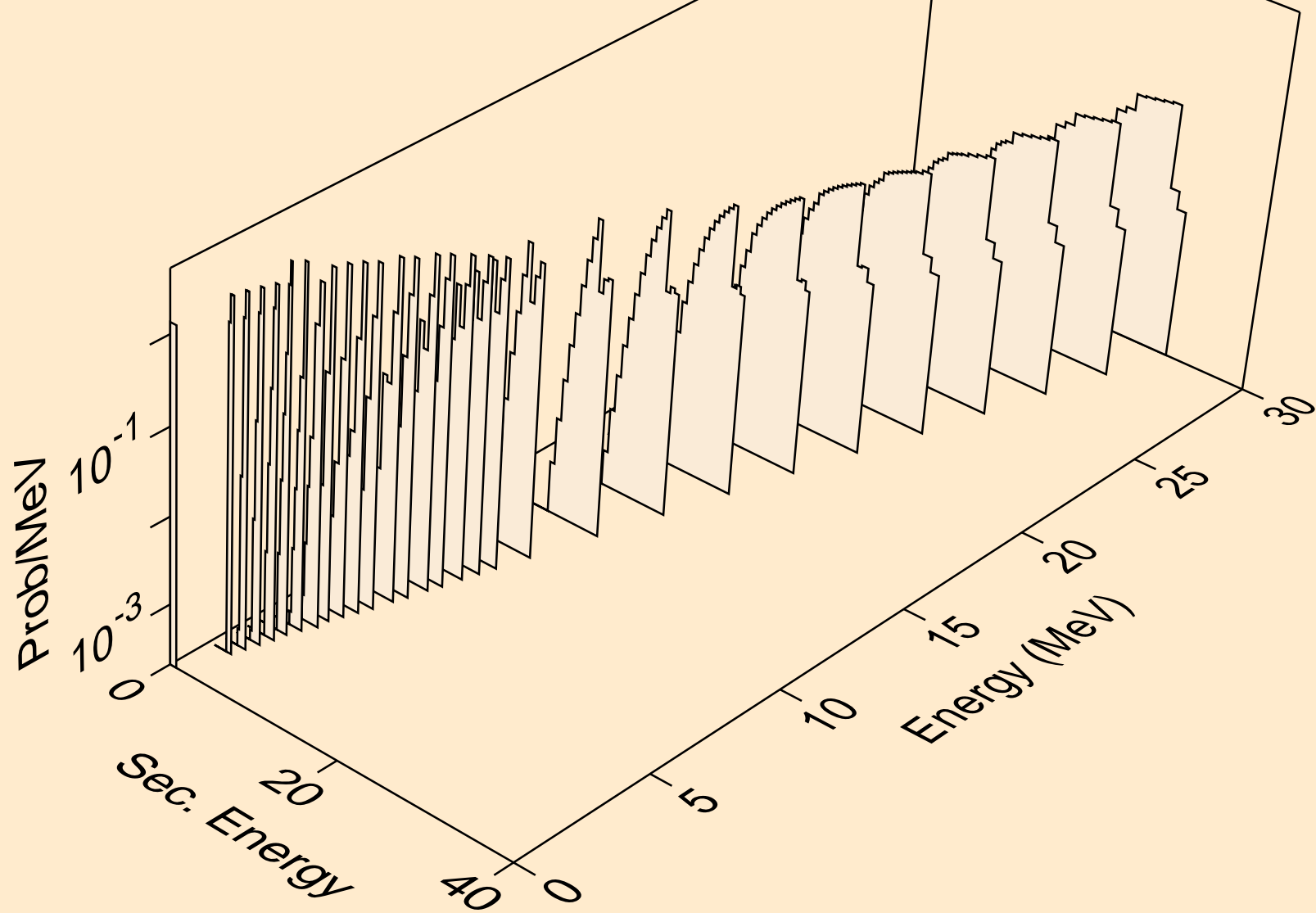
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,2nd)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,n\*)d

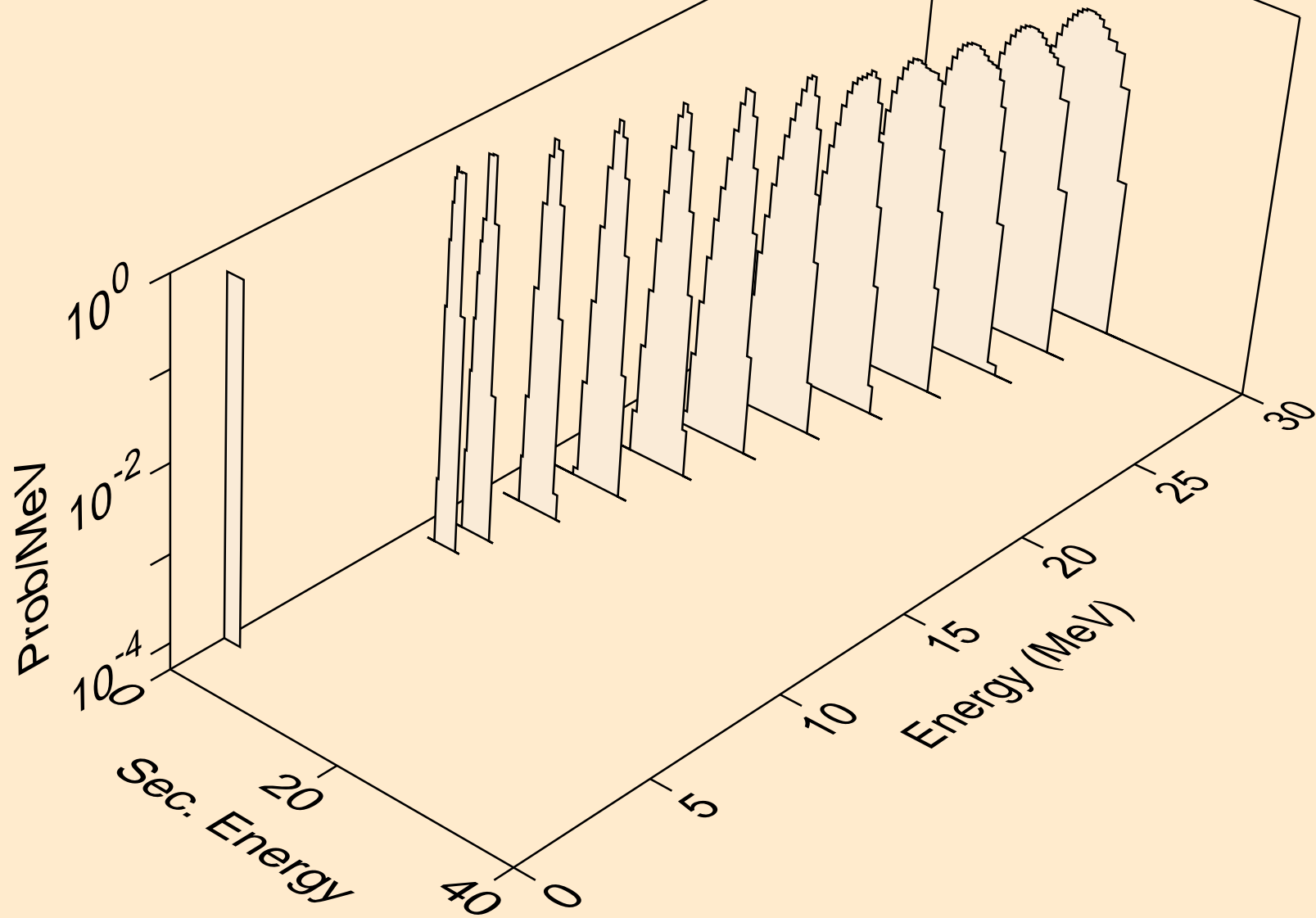


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,d)

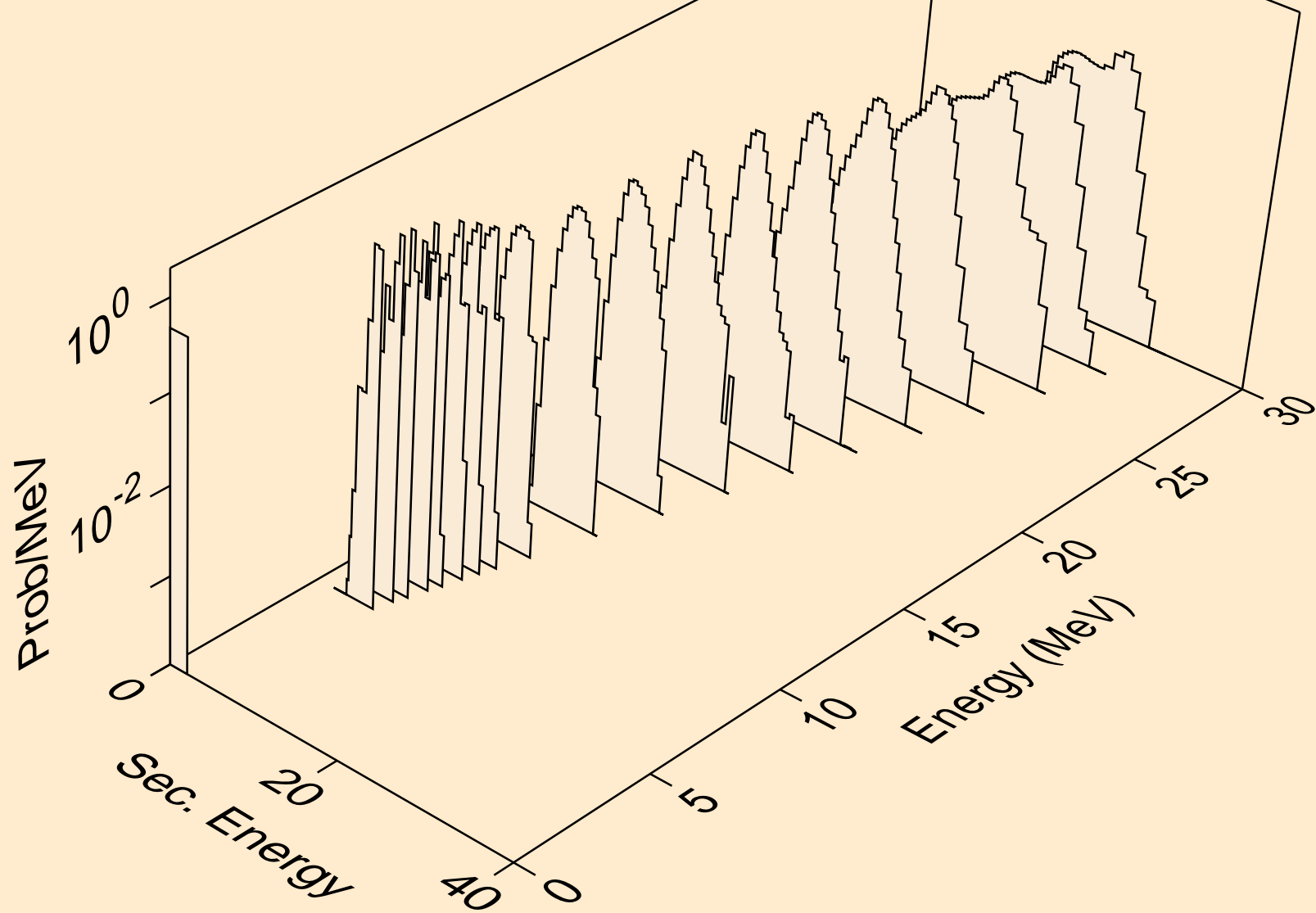




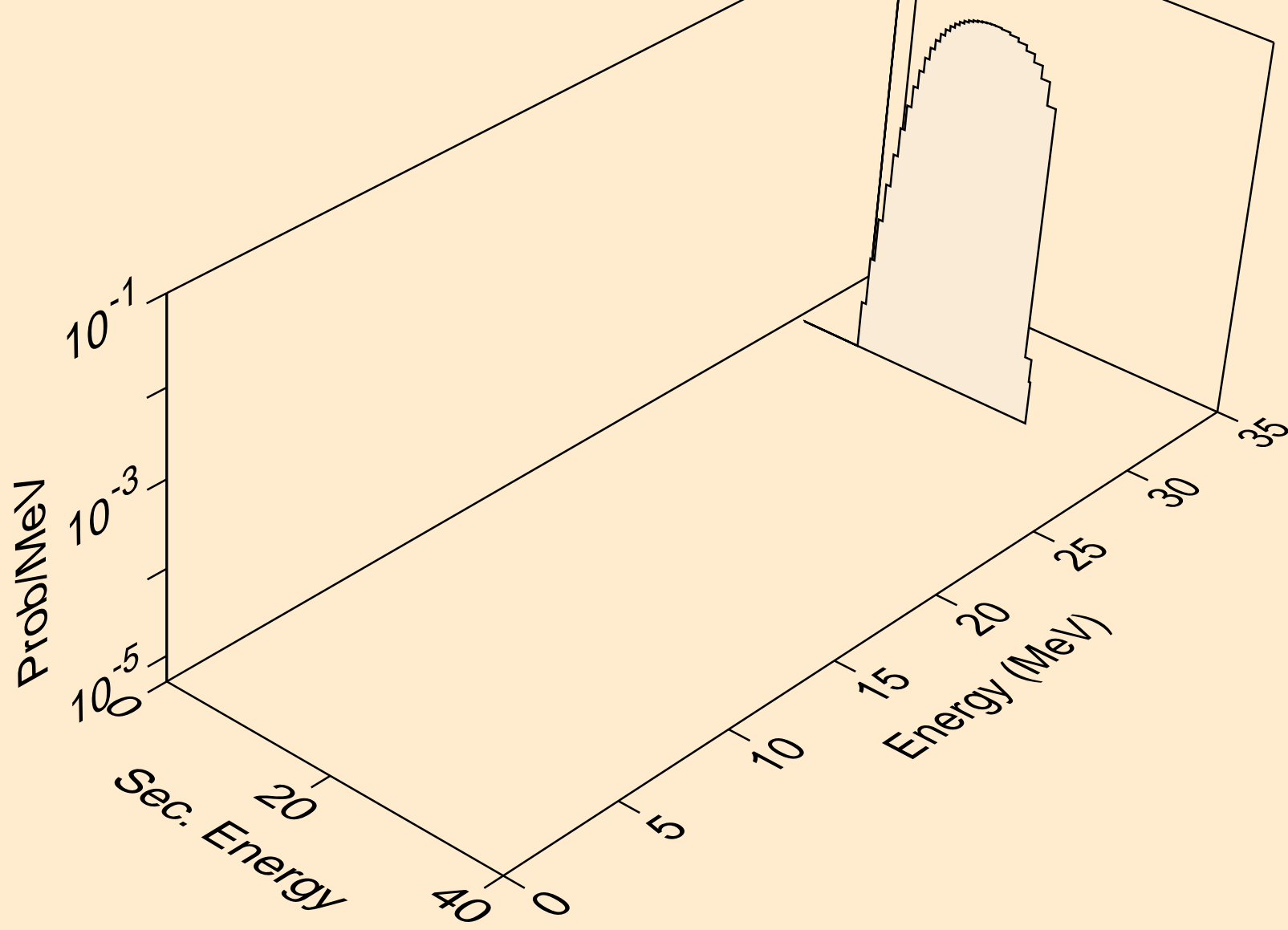
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
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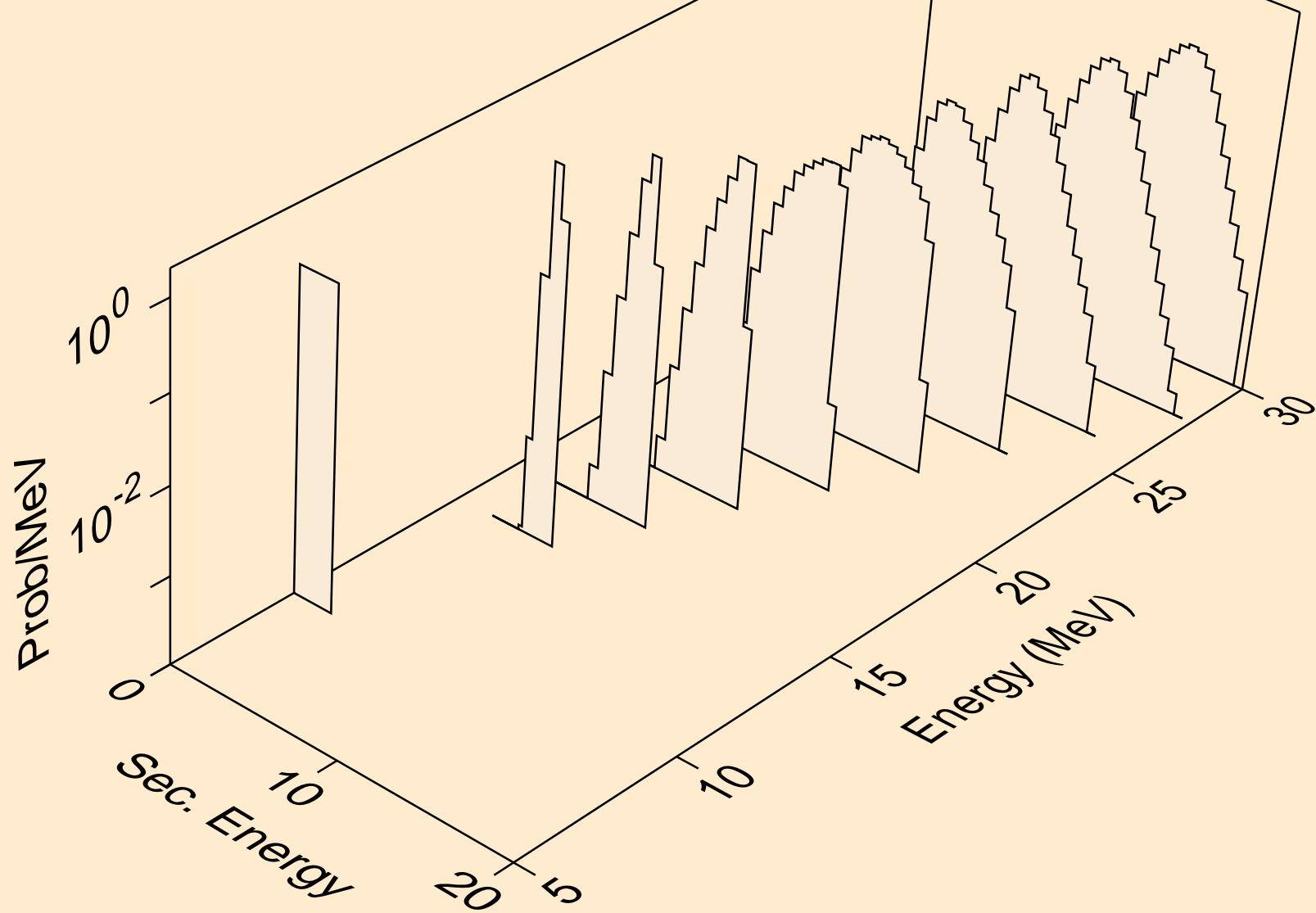
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
deuterons from (n,da)



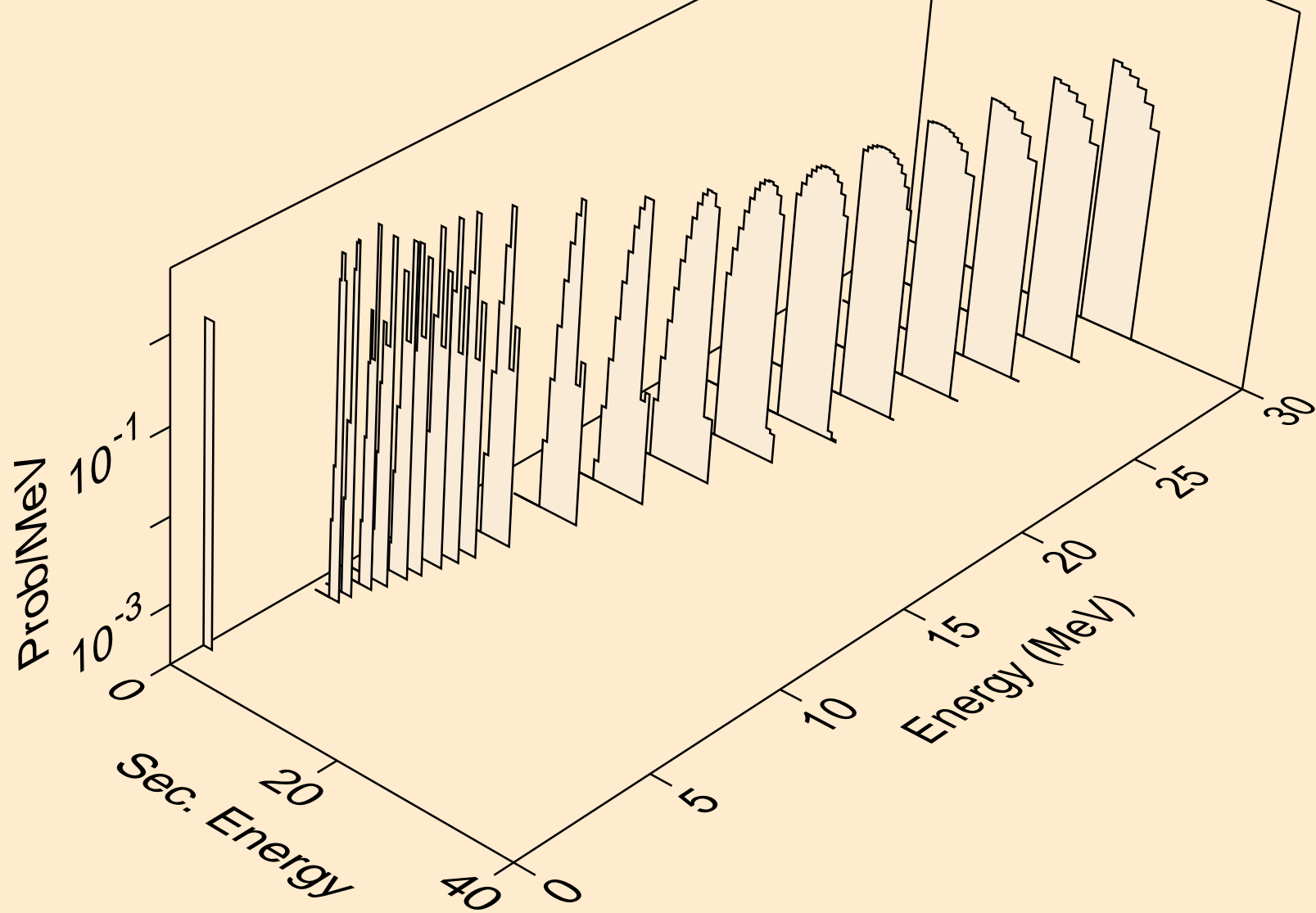
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,x)



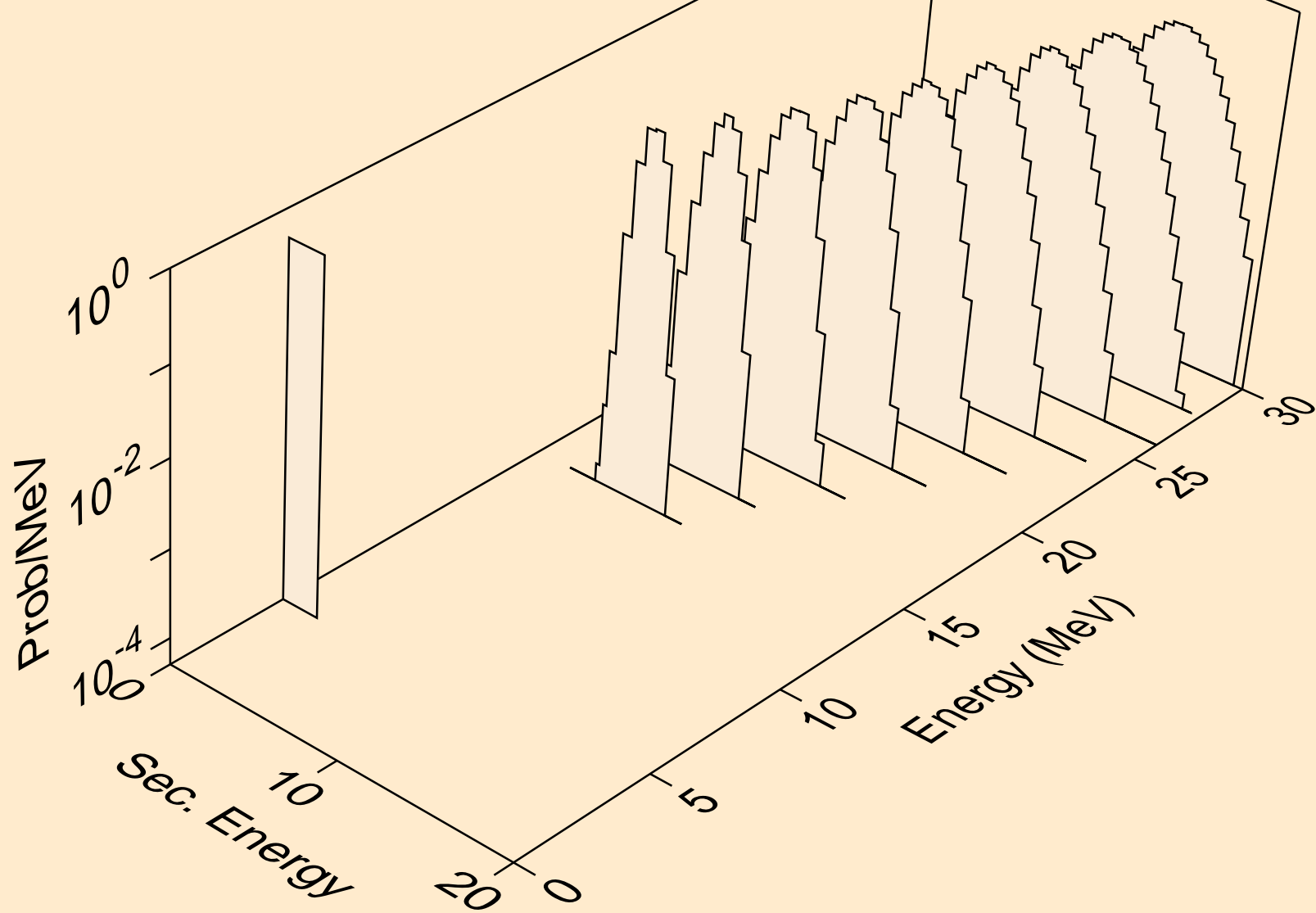
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,n\*)t



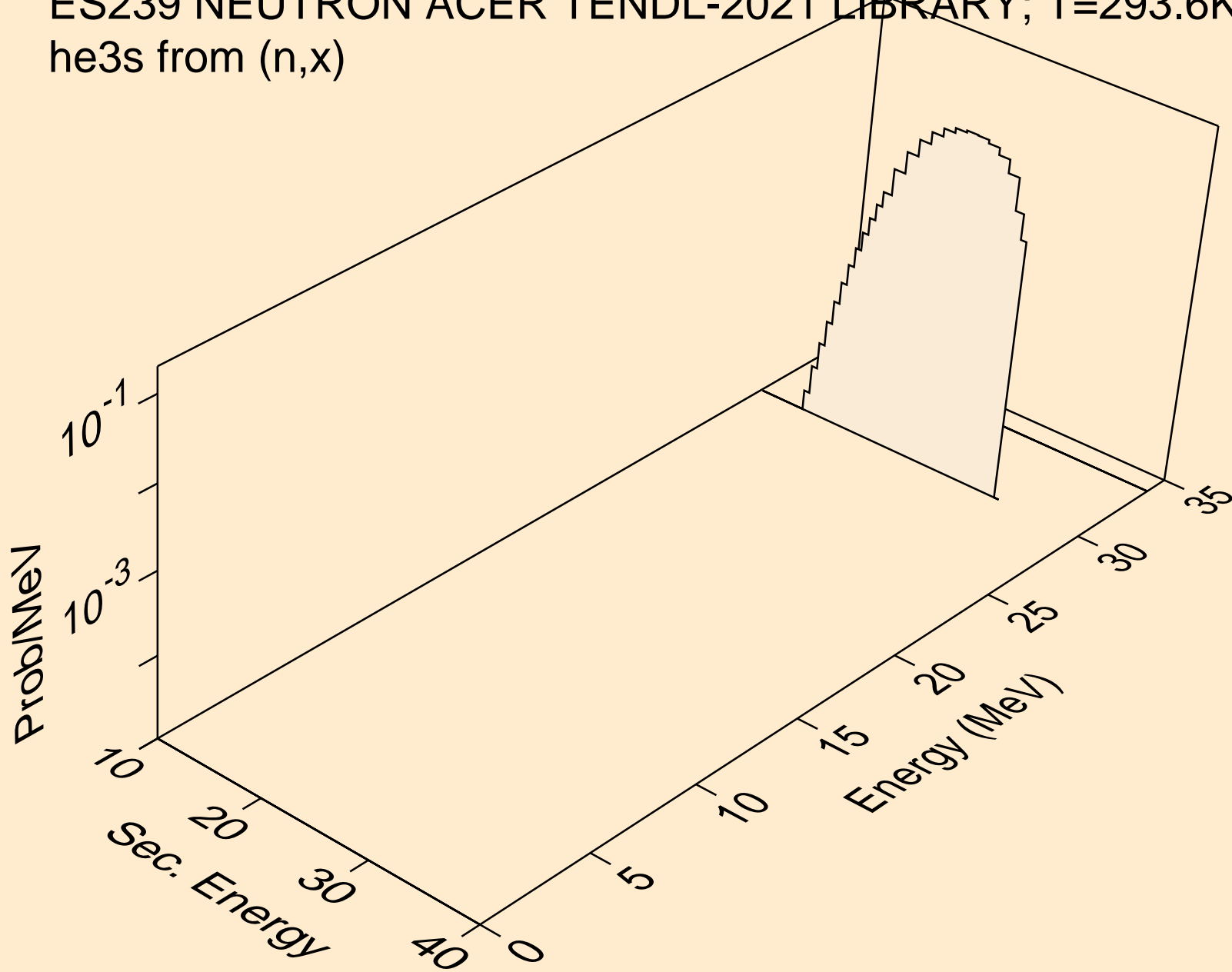
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,t)



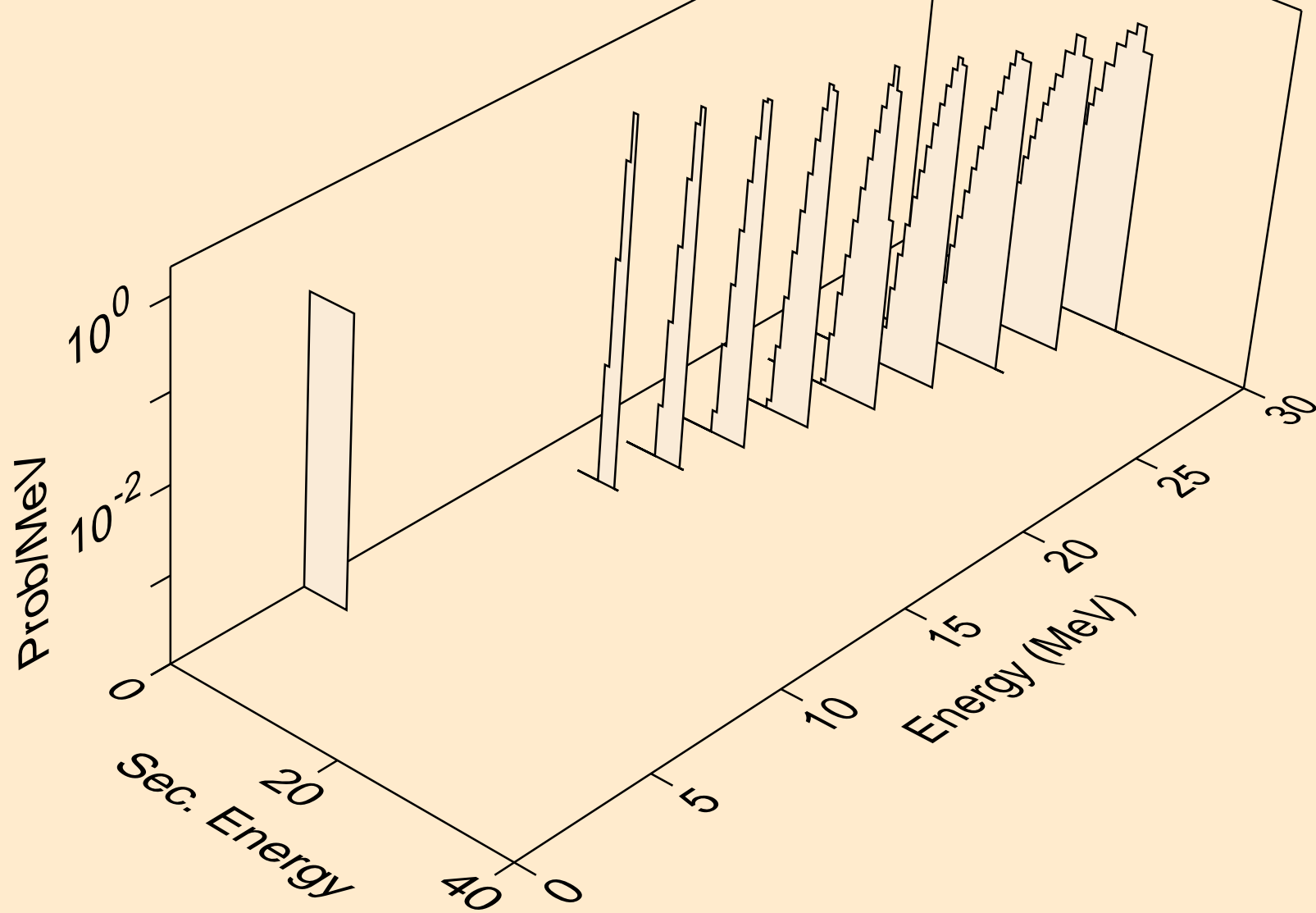
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
tritons from (n,pt)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,x)

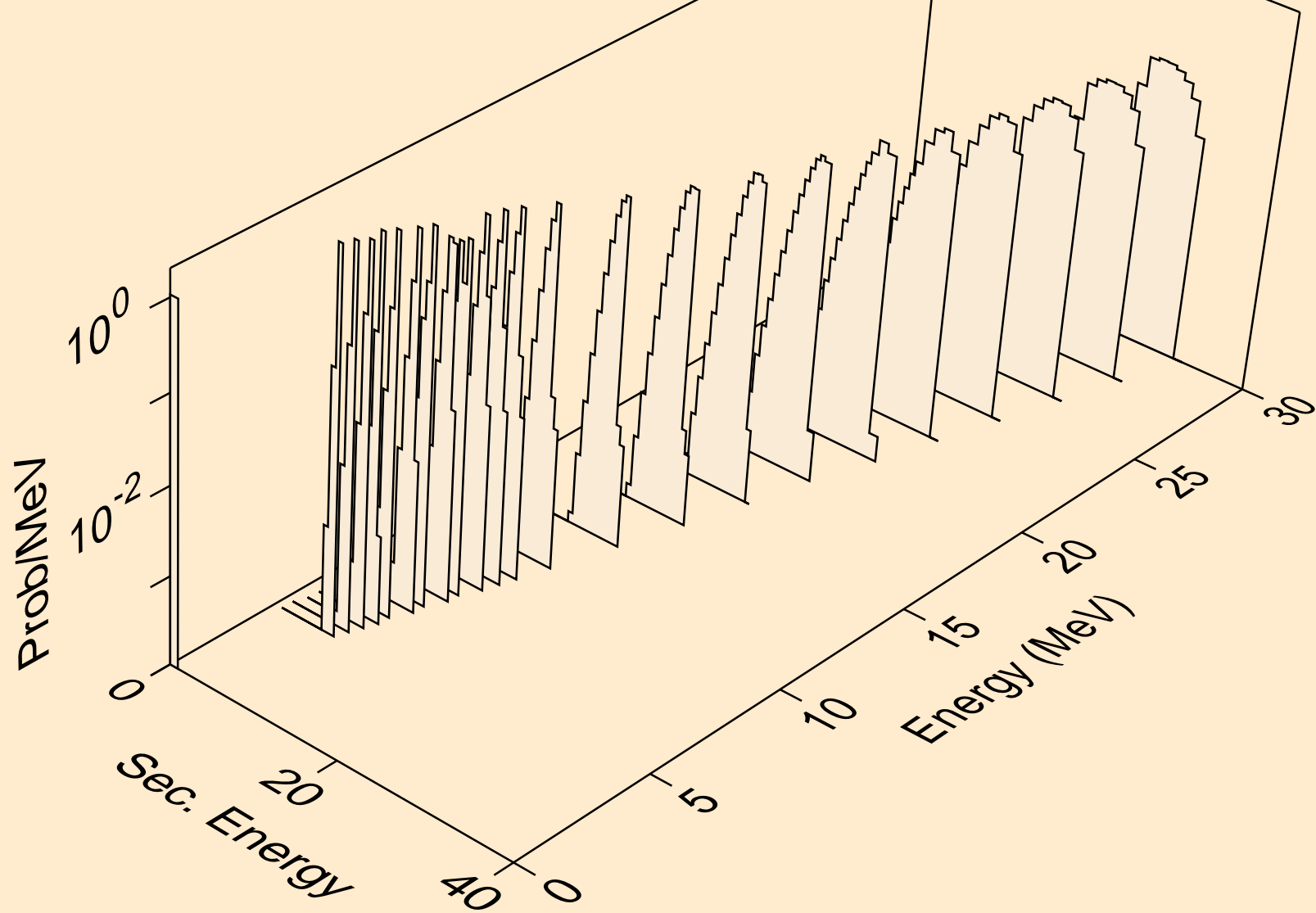


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,n\*)he3

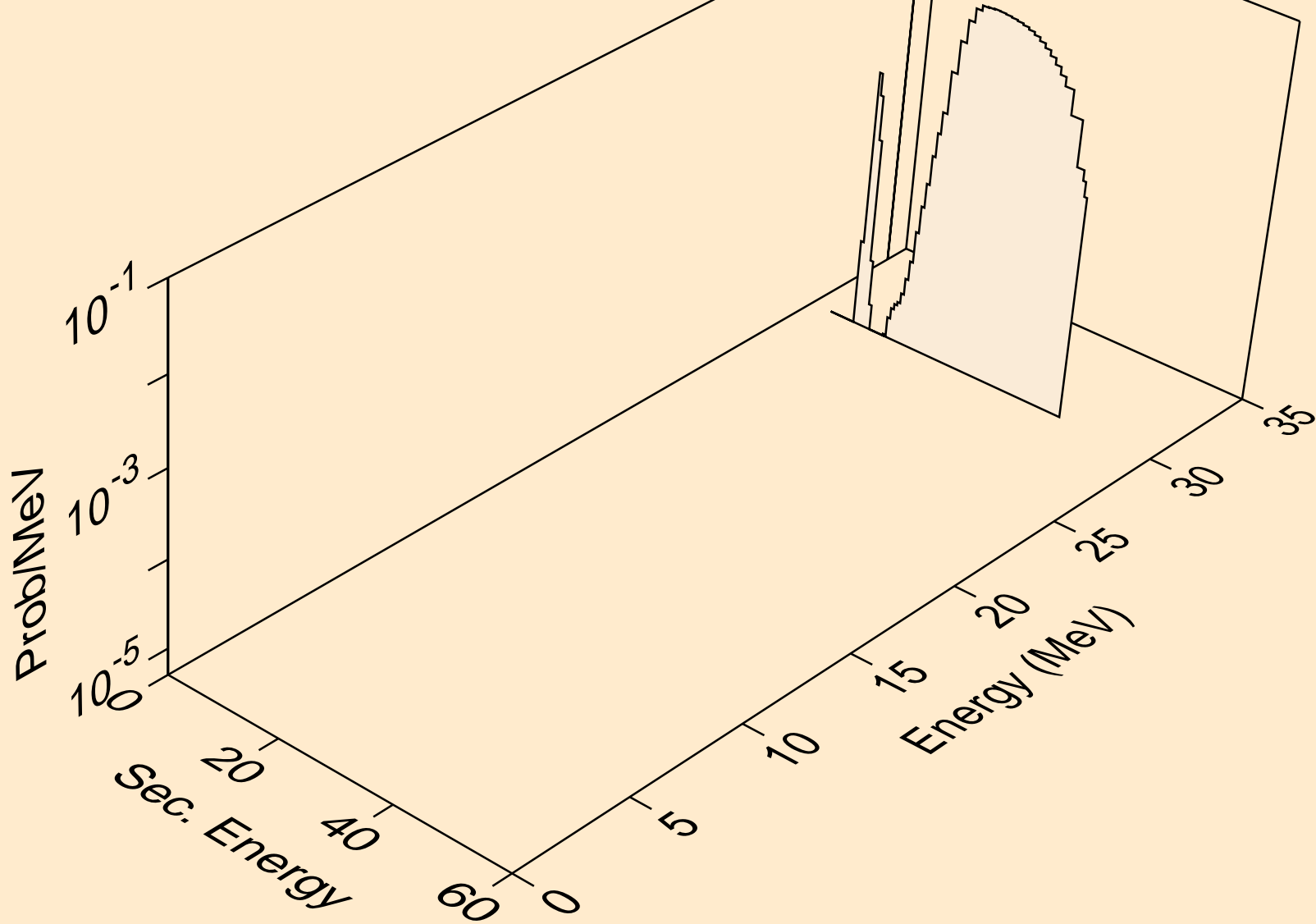




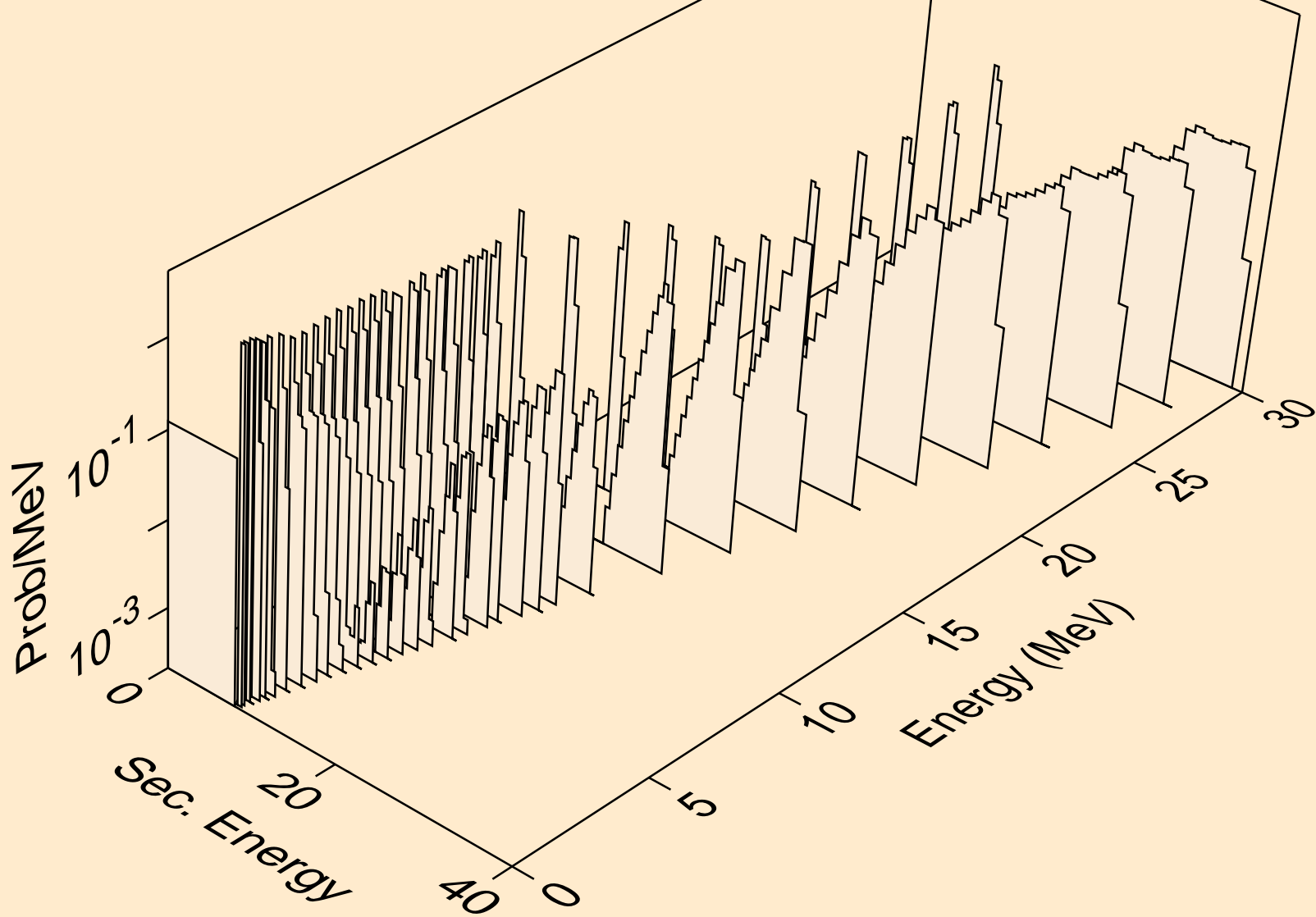
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
he3s from (n,he3)



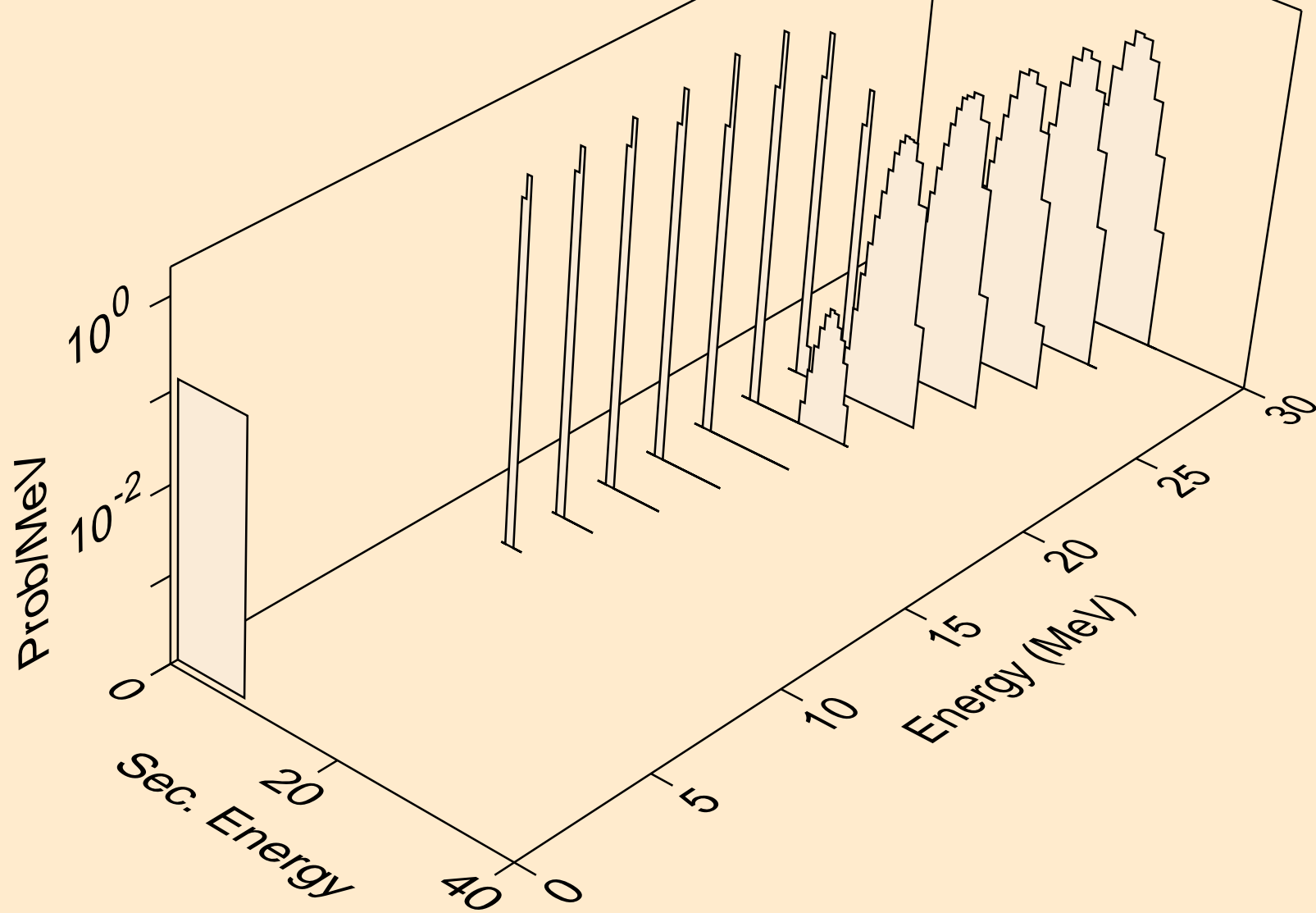
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,x)



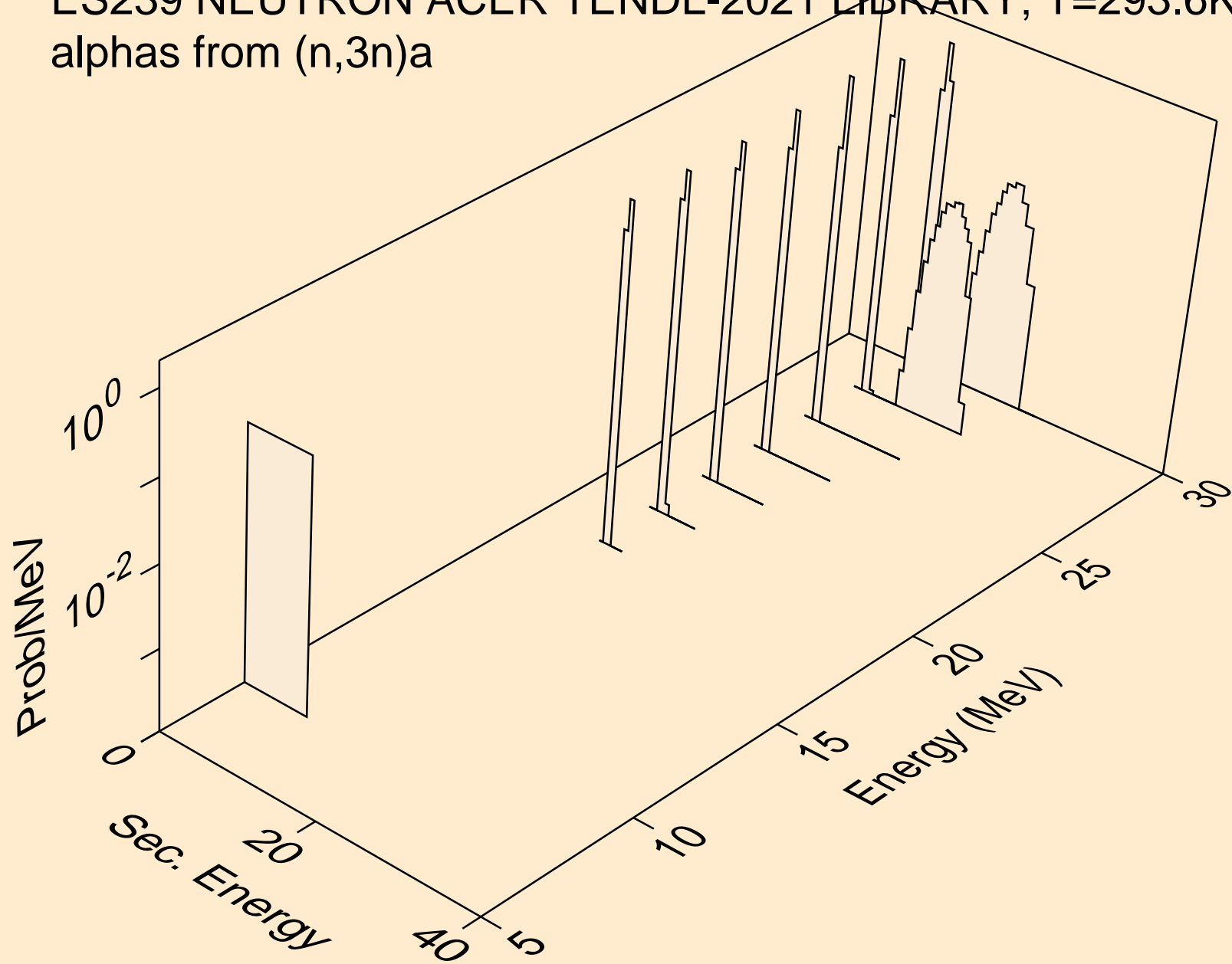
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,n\*)a



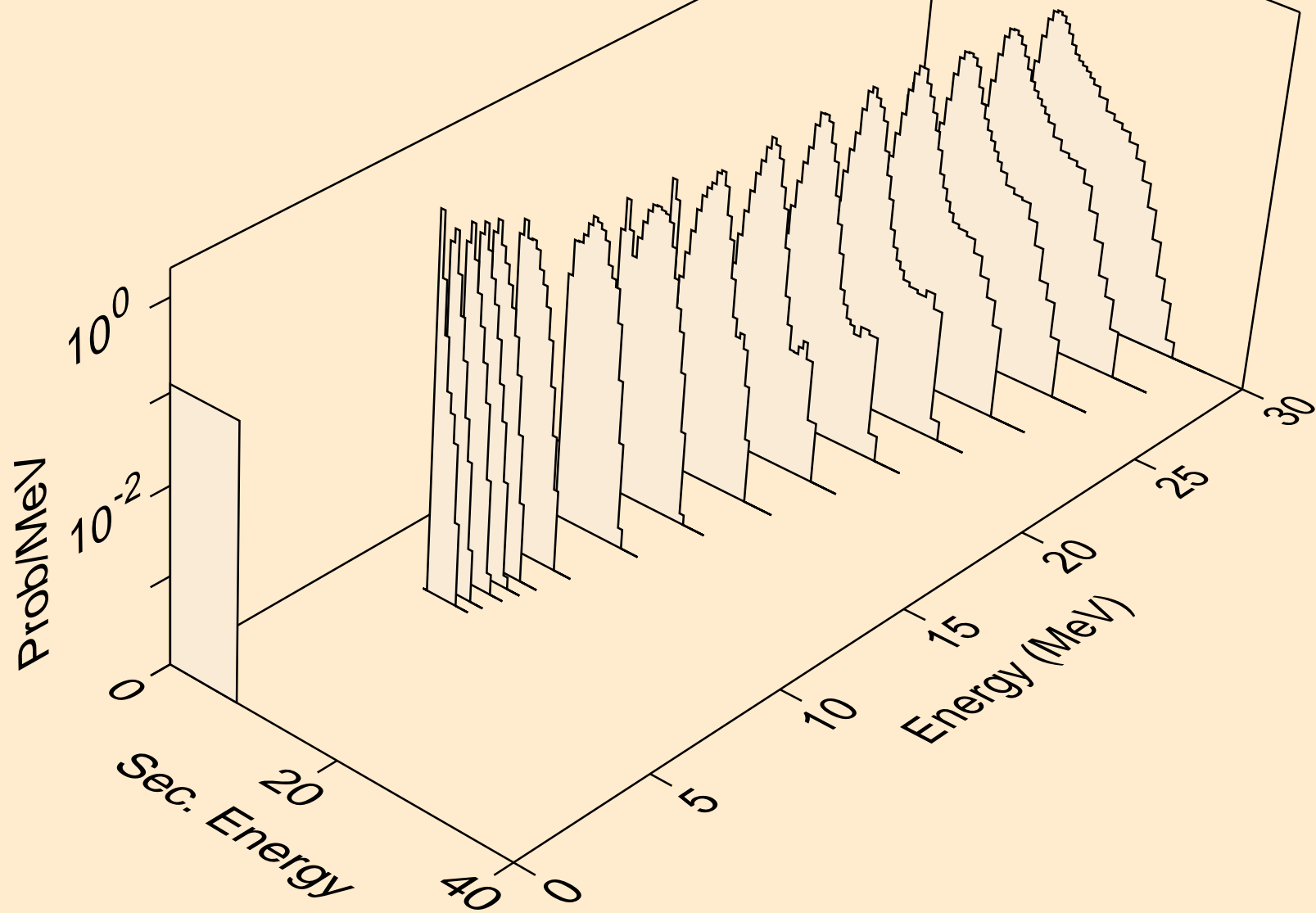
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2n)a



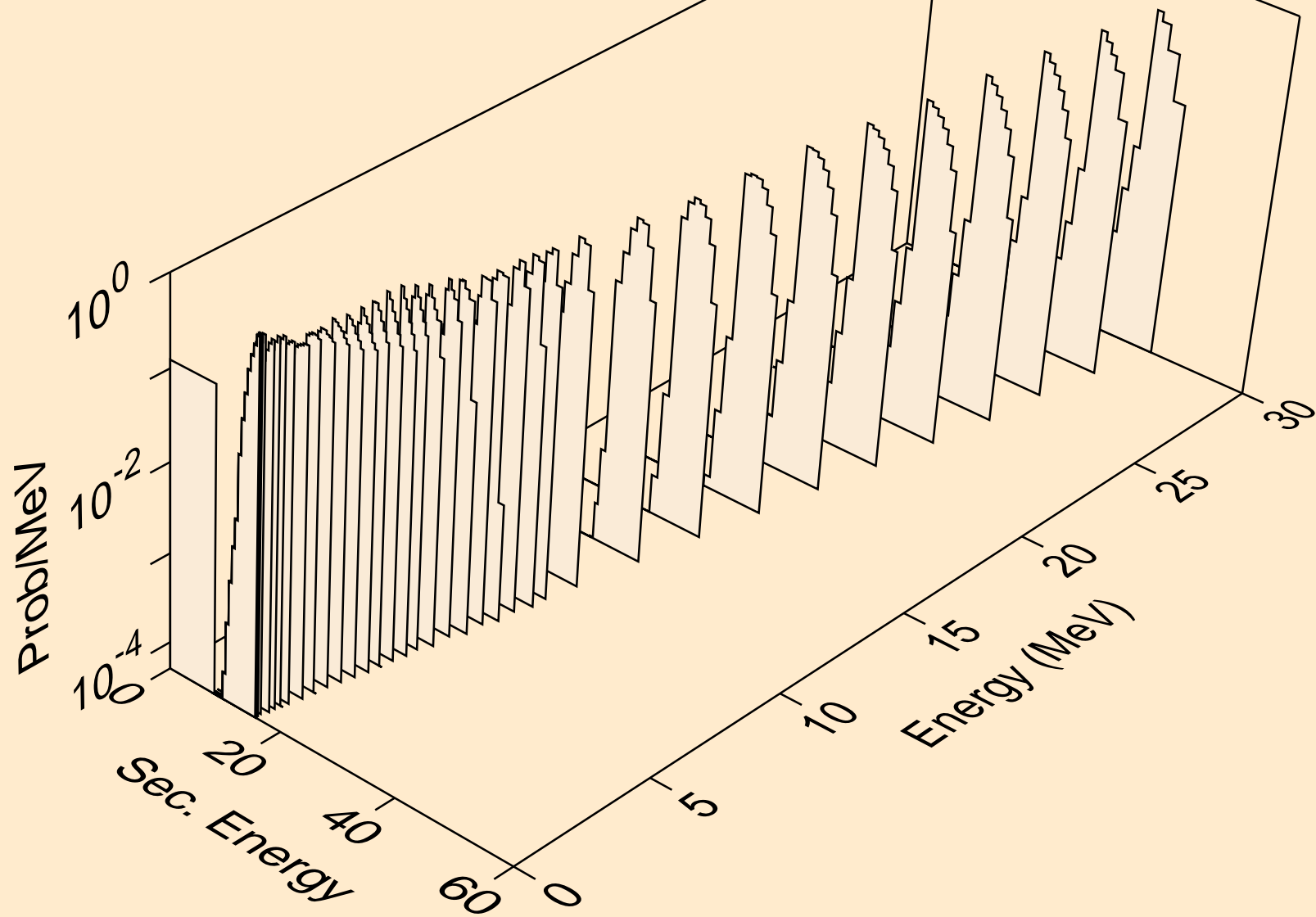
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,3n)a



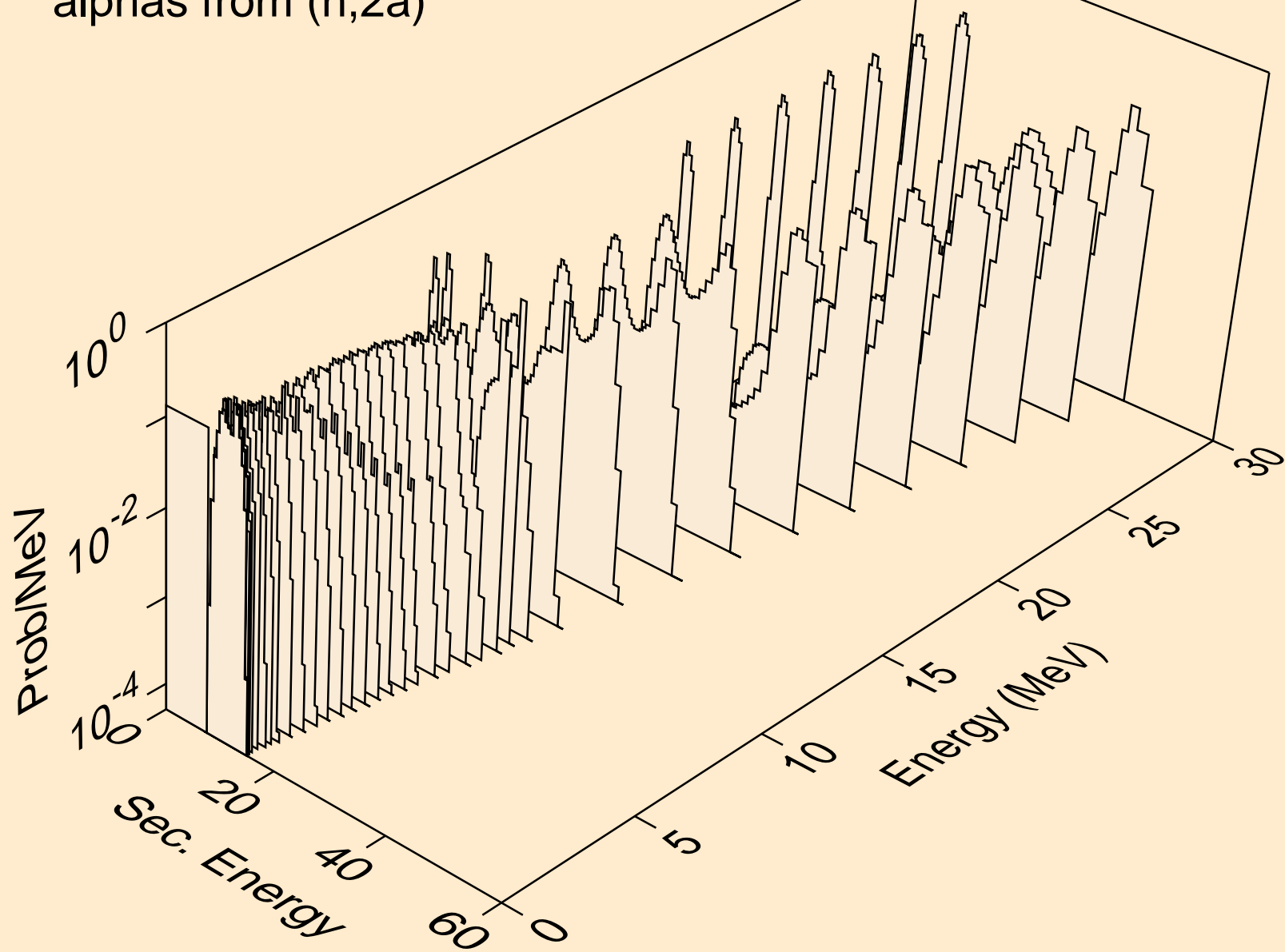
ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,npa)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,a)

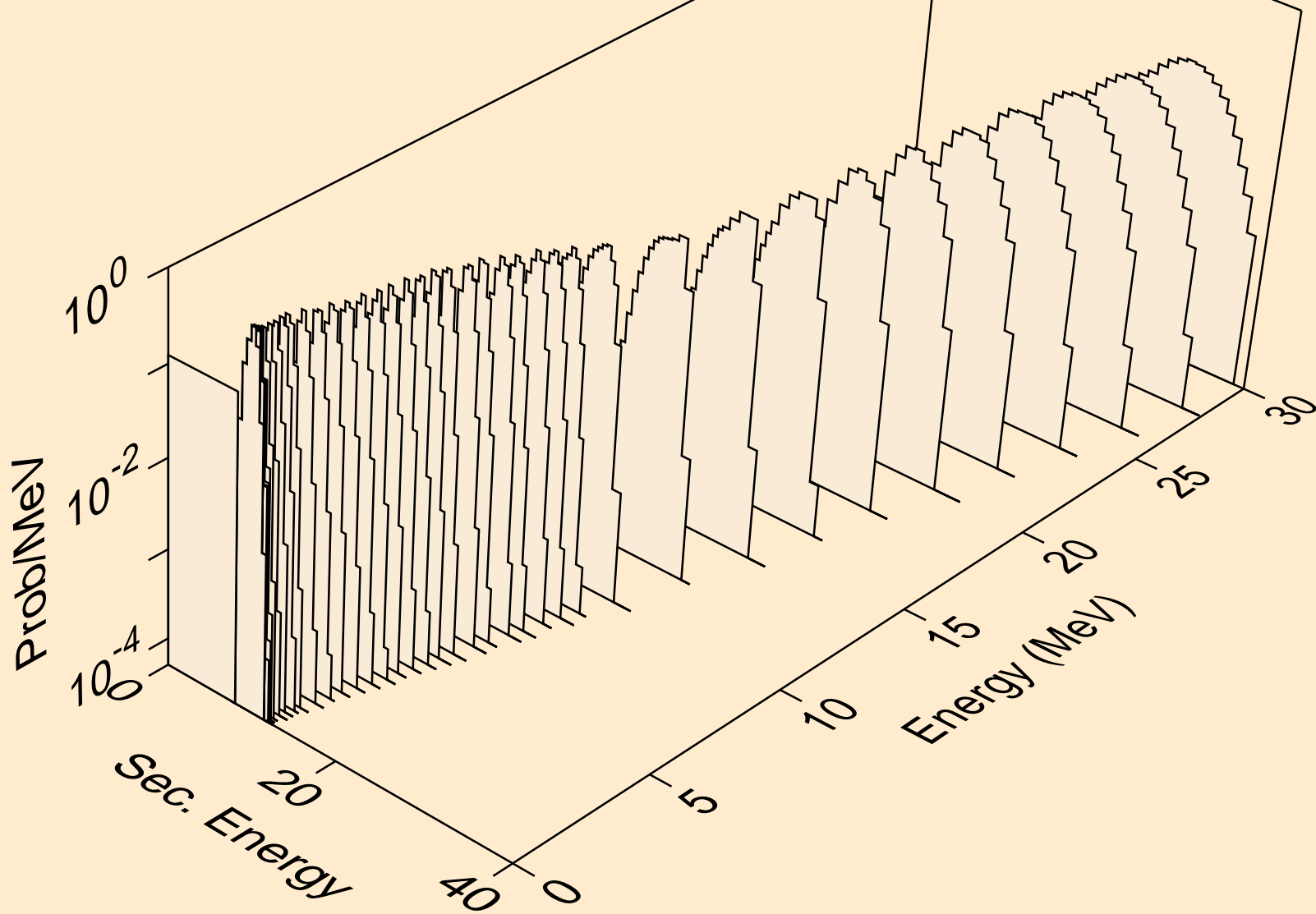


ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,2a)





ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,p)



ES239 NEUTRON ACER TENDL-2021 LIBRARY; T=293.6K  
alphas from (n,da)

