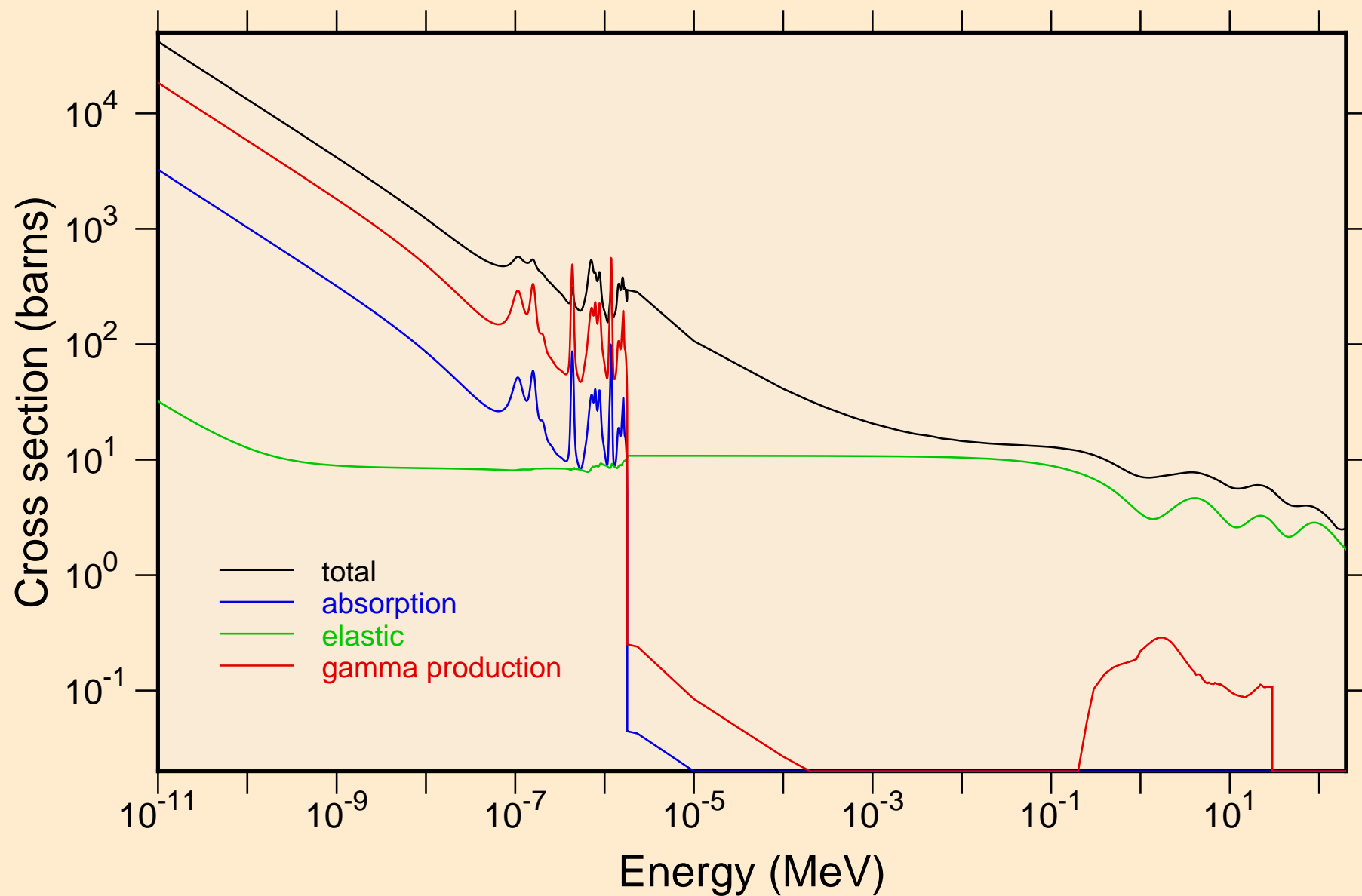
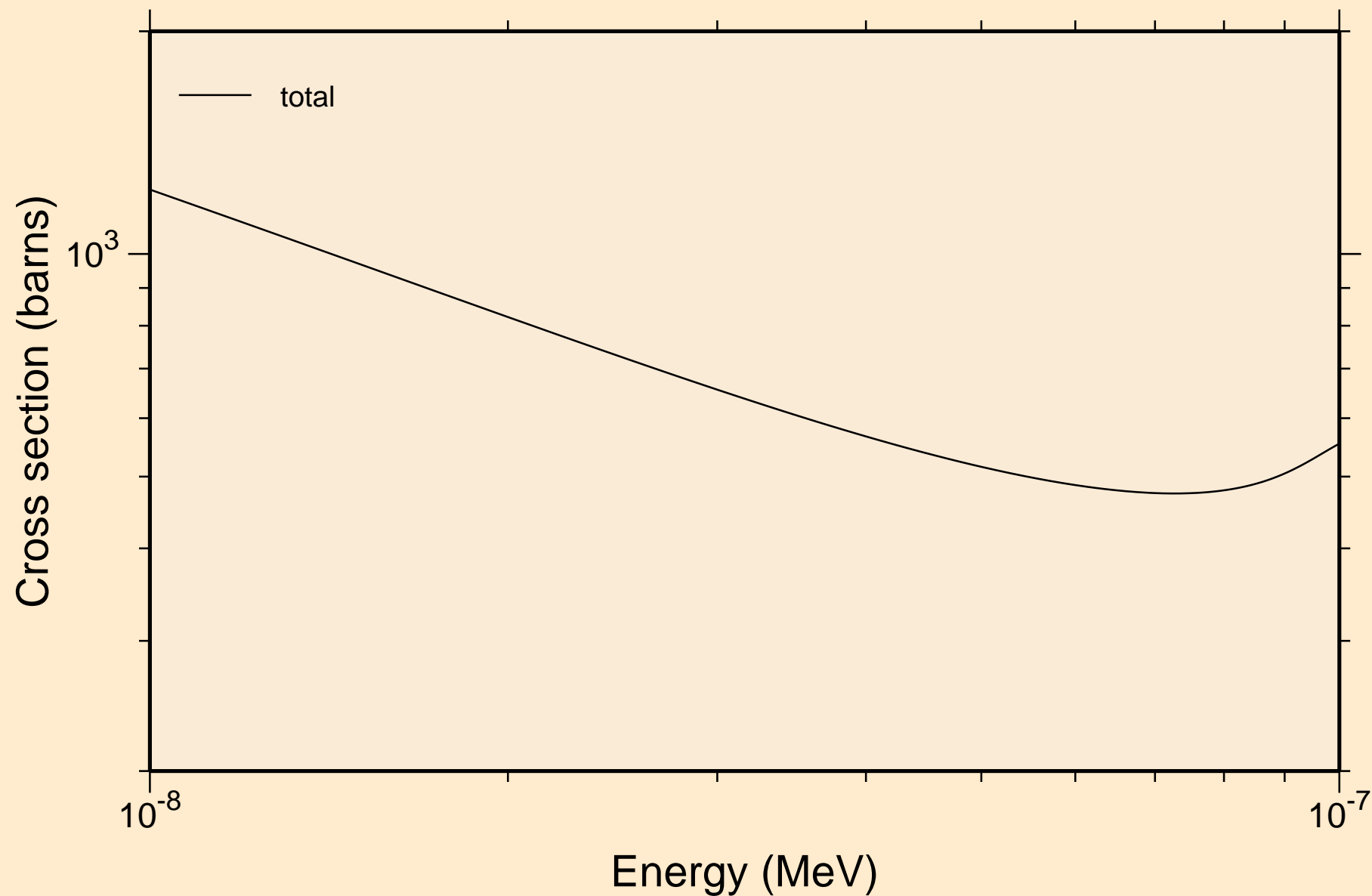


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

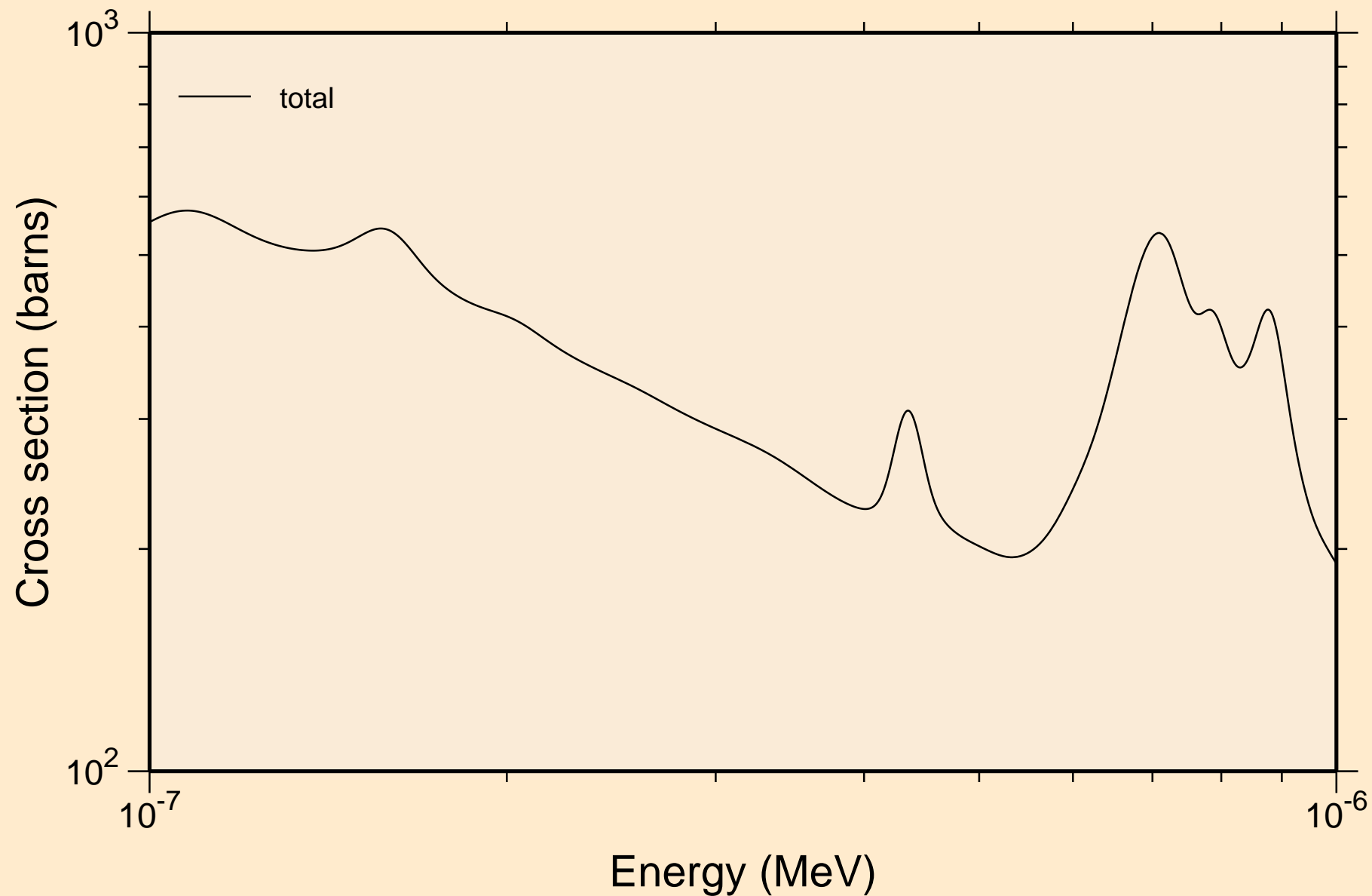
## Principal cross sections



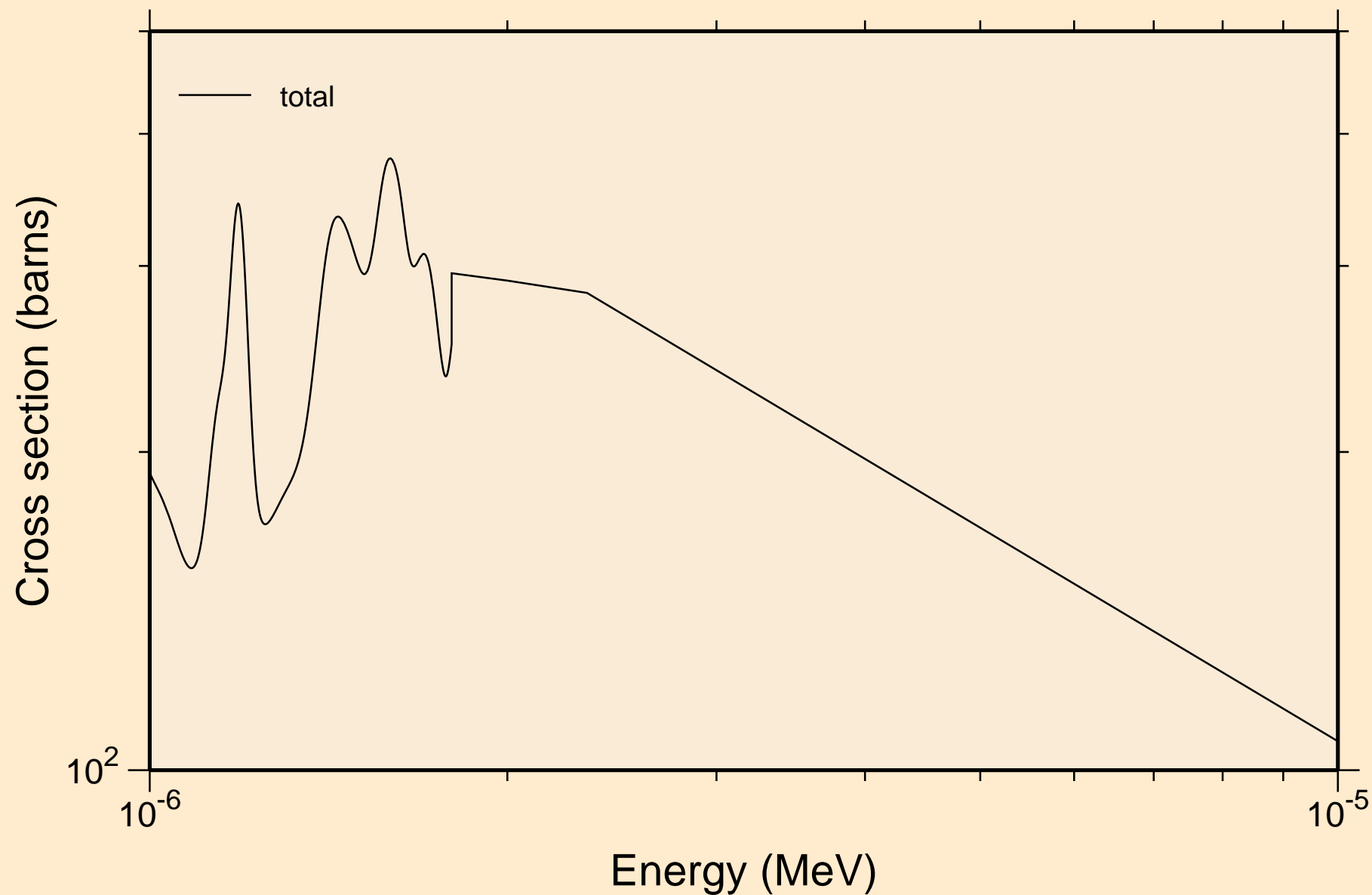
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



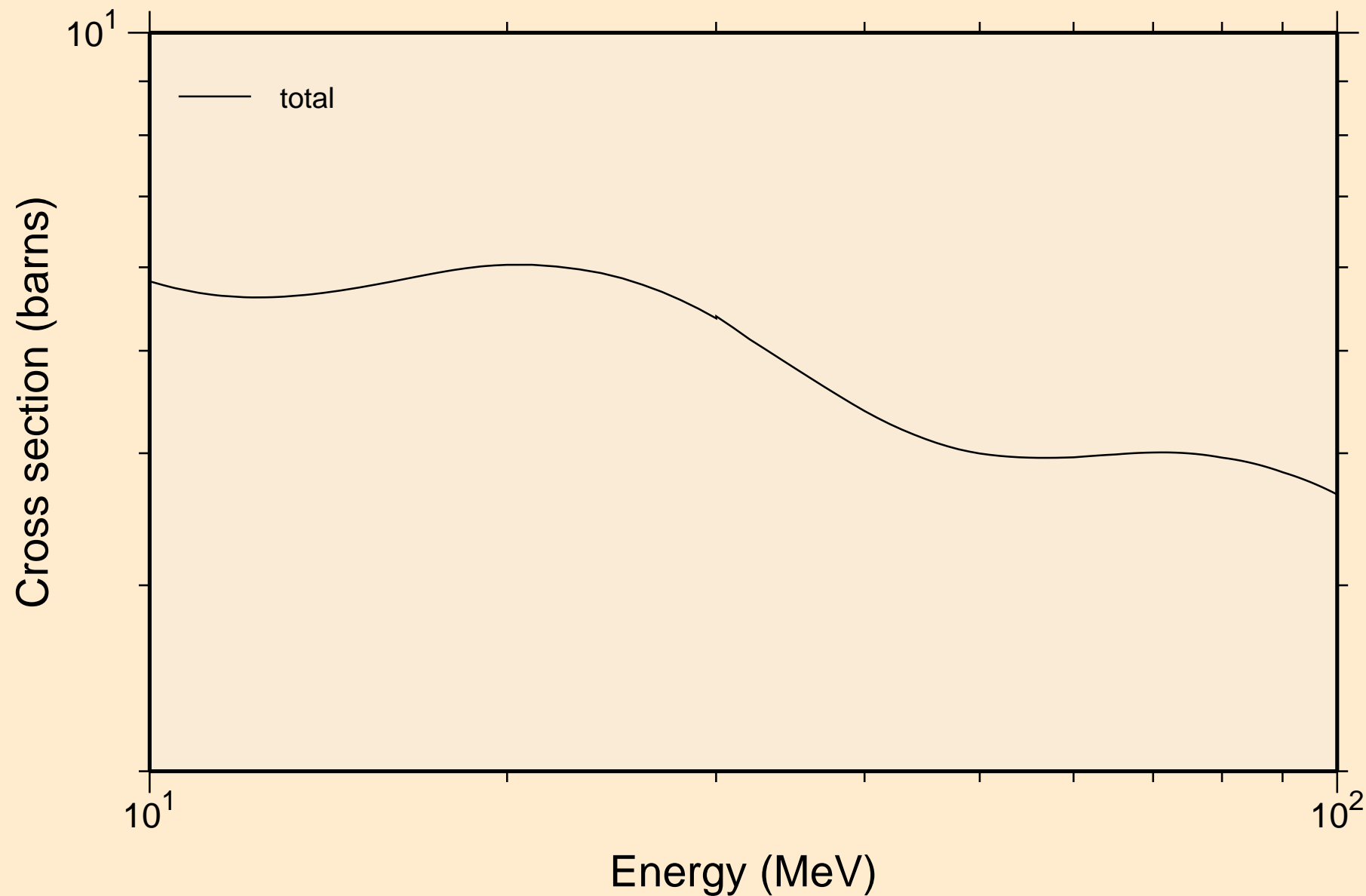
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



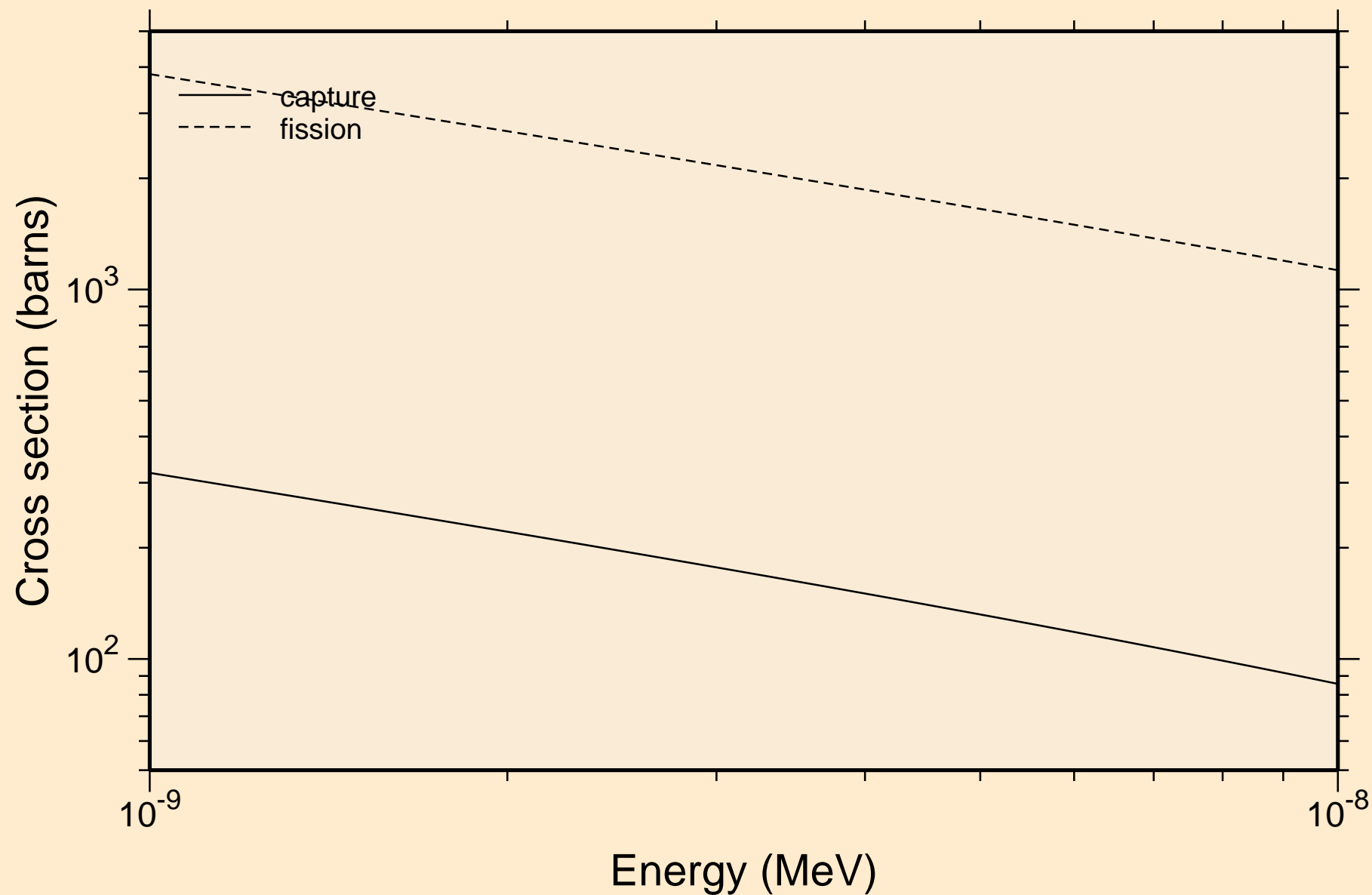
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



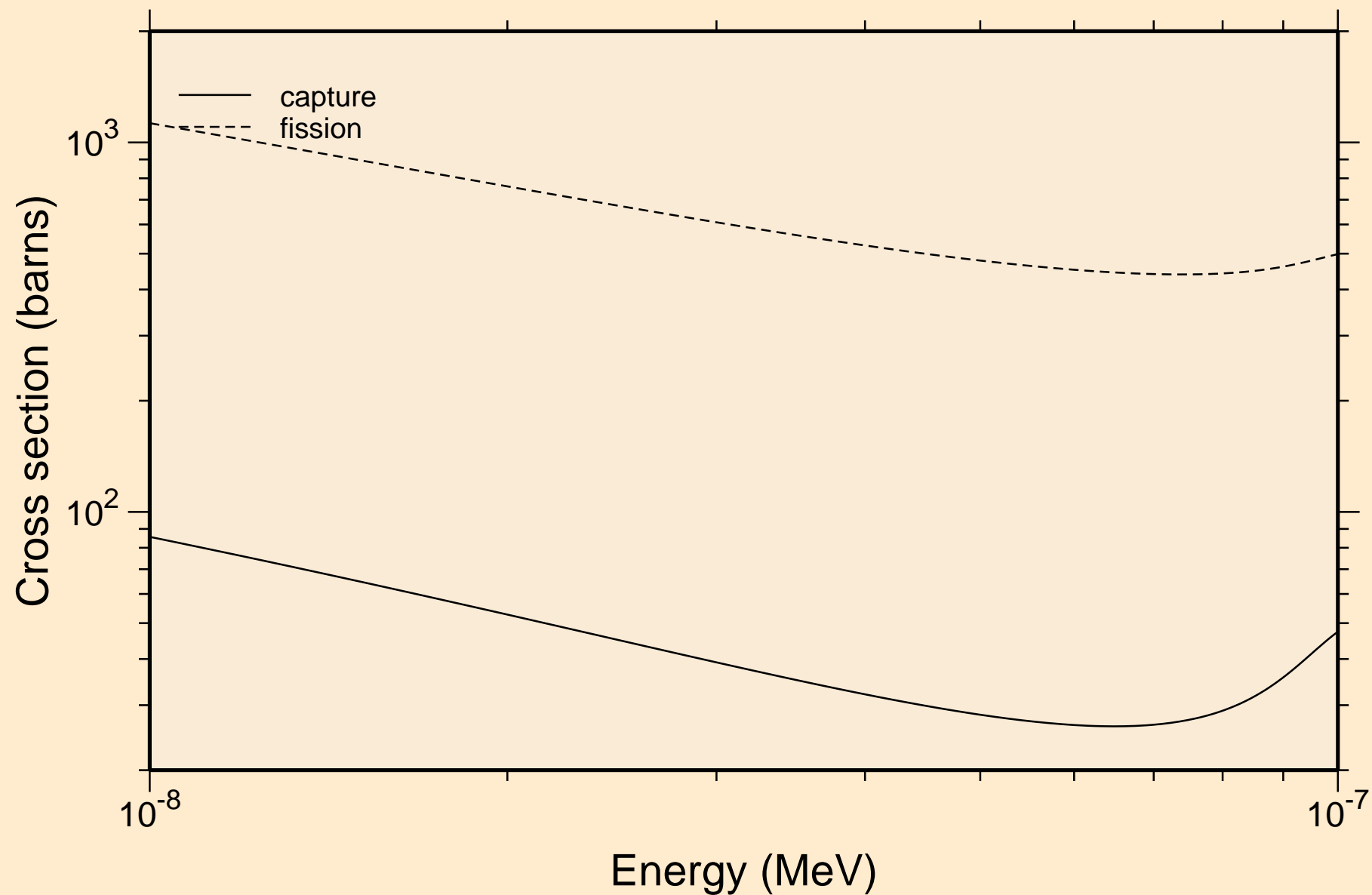
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance total cross section



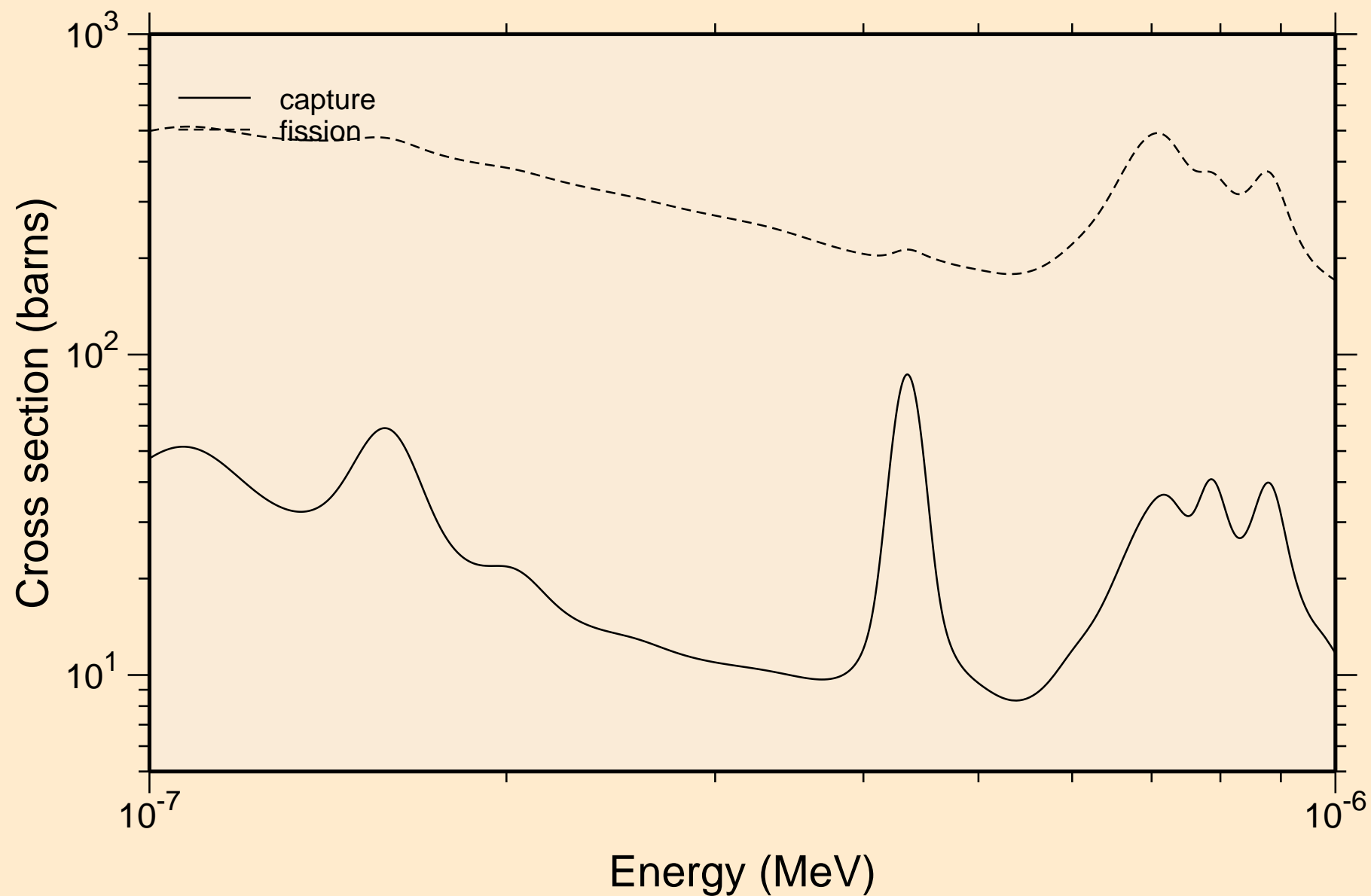
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

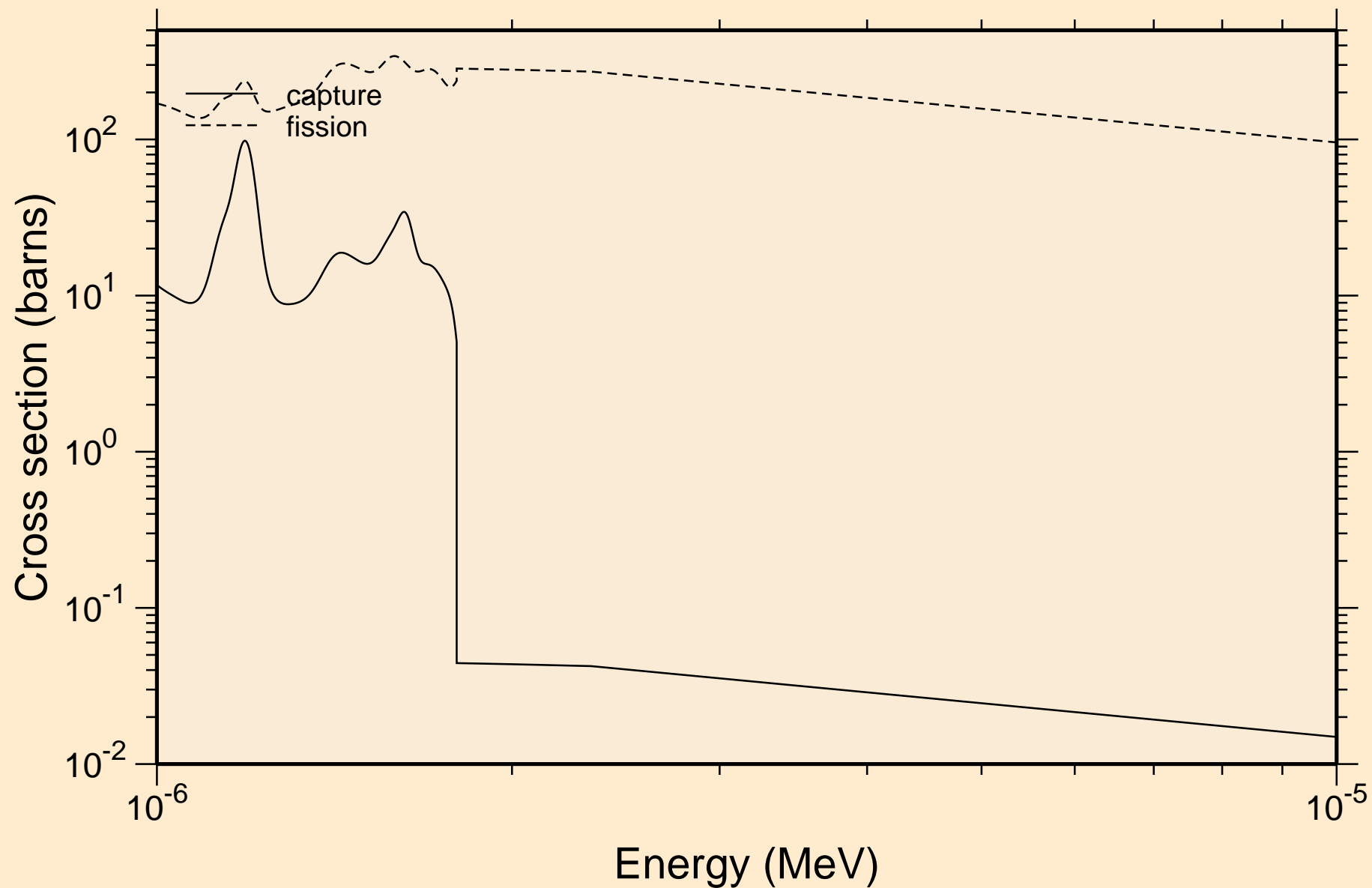


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

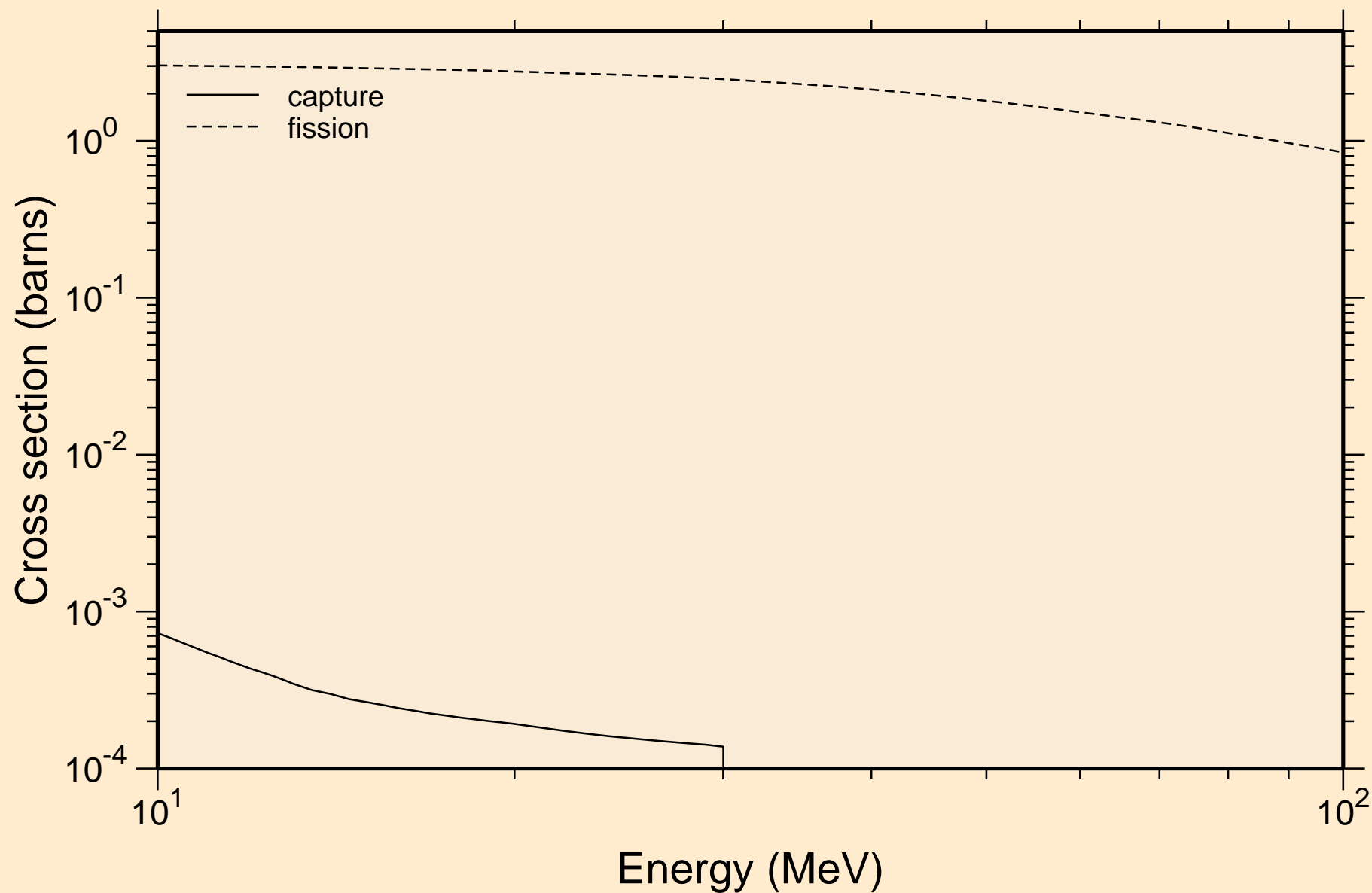




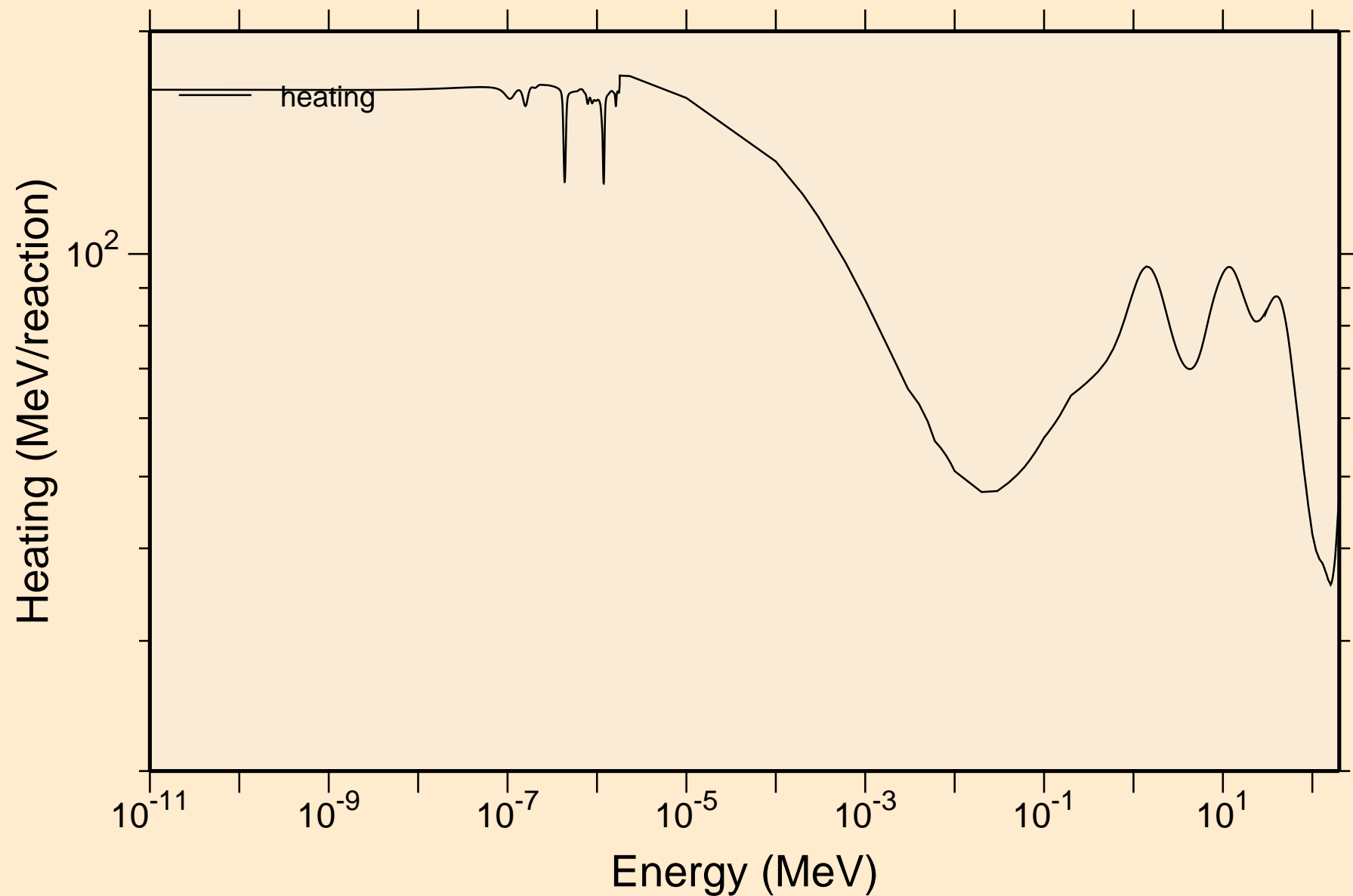
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
resonance absorption cross sections

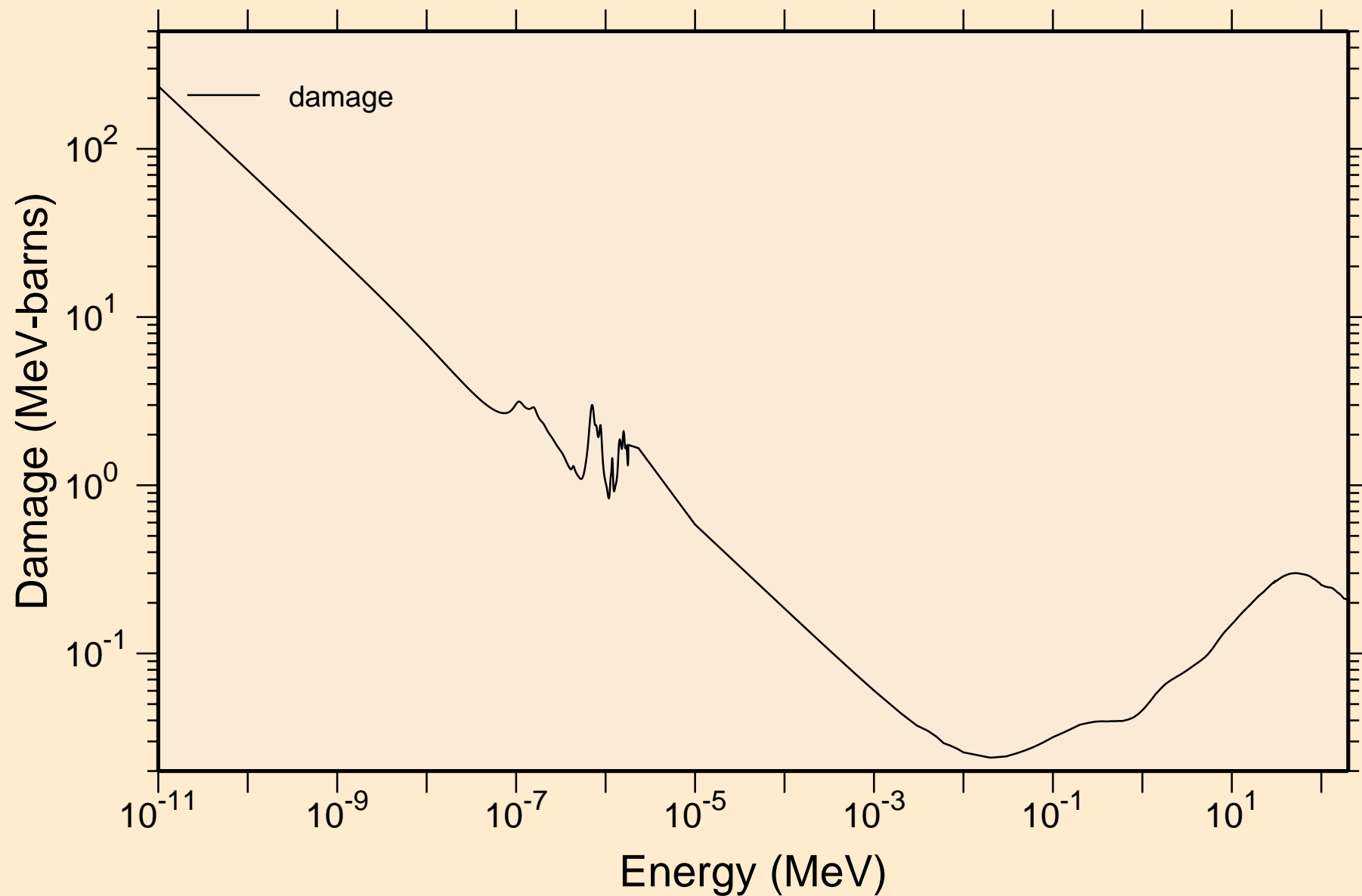


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



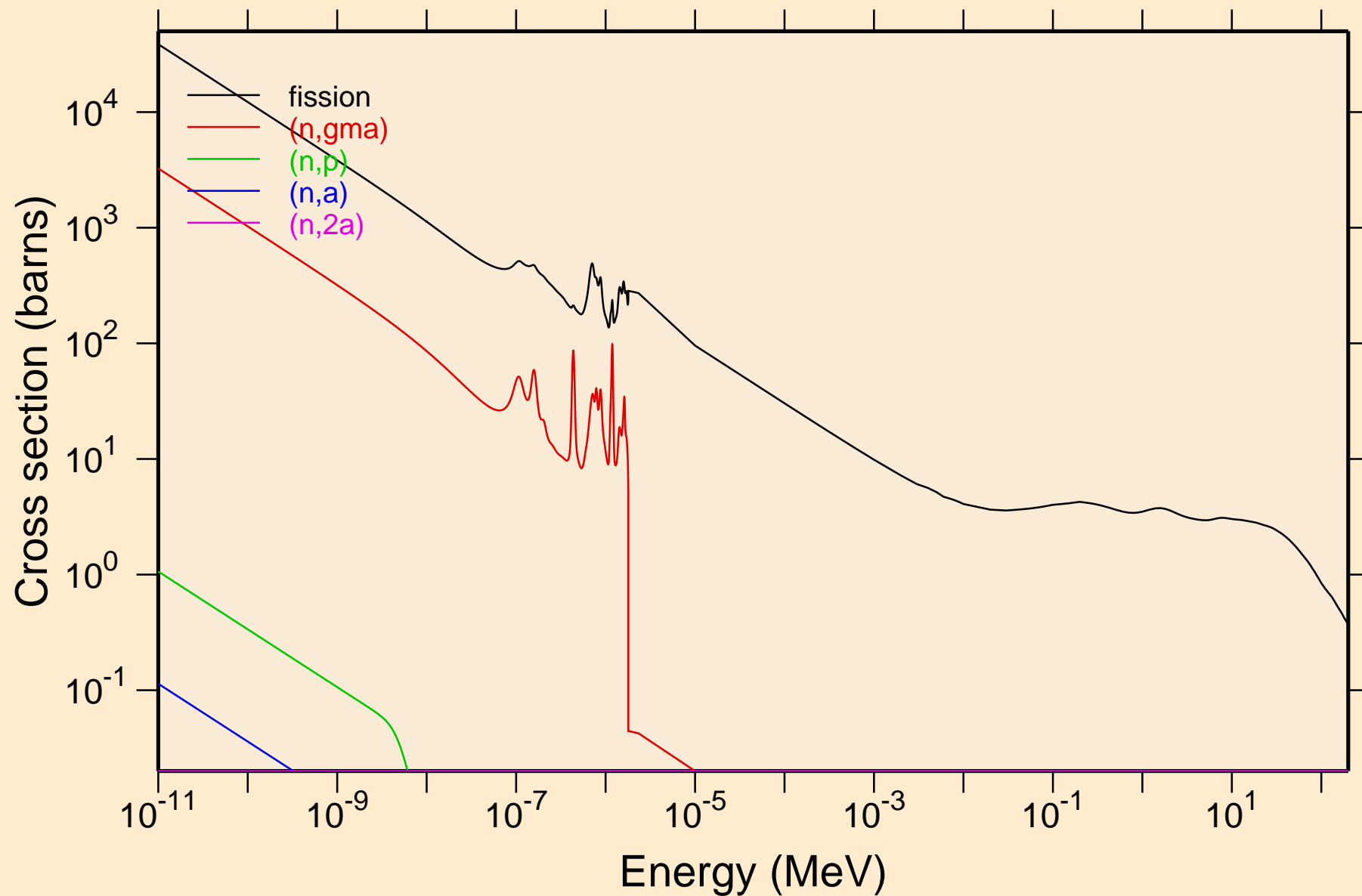
# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Damage

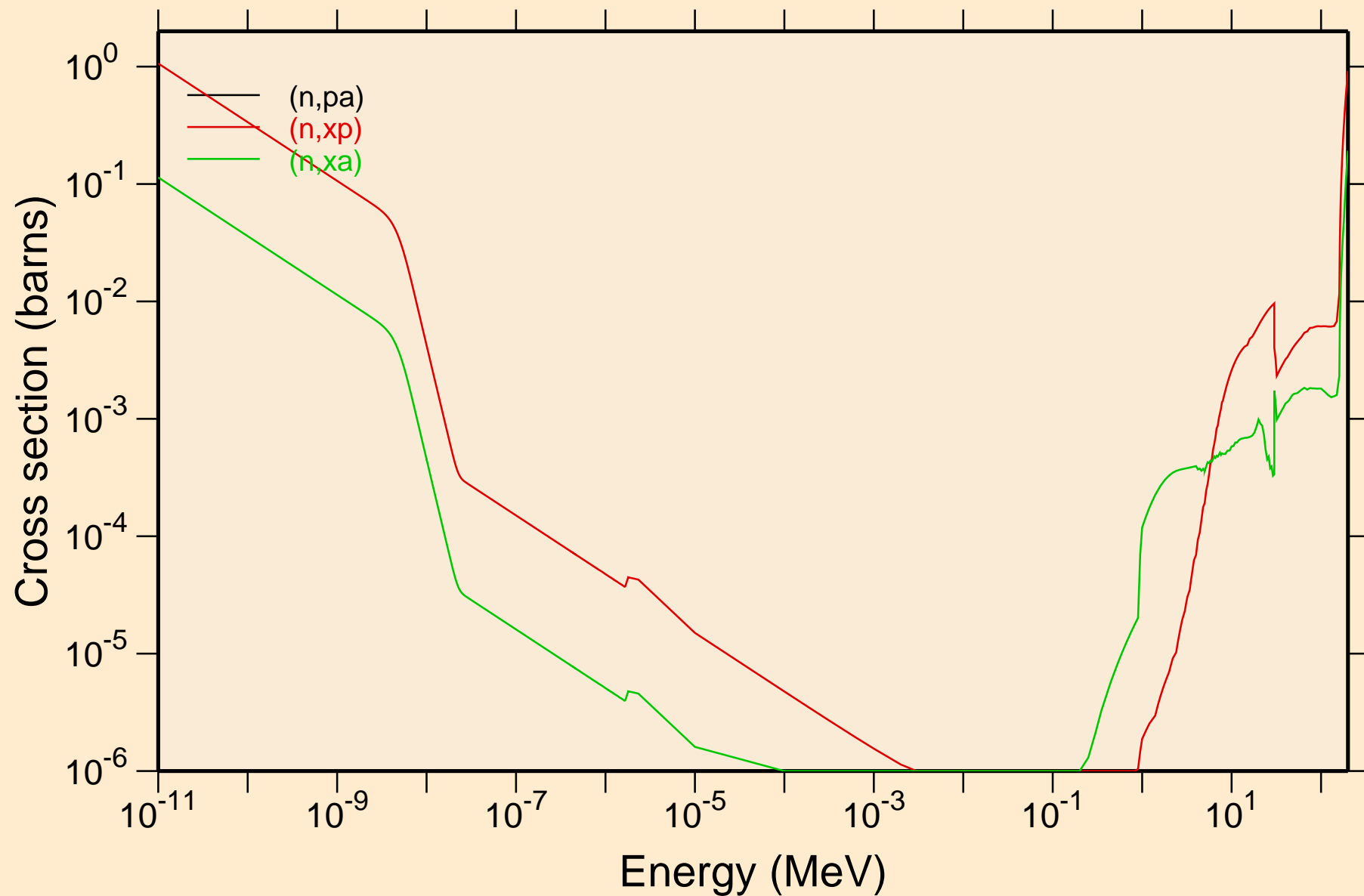


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Non-threshold reactions

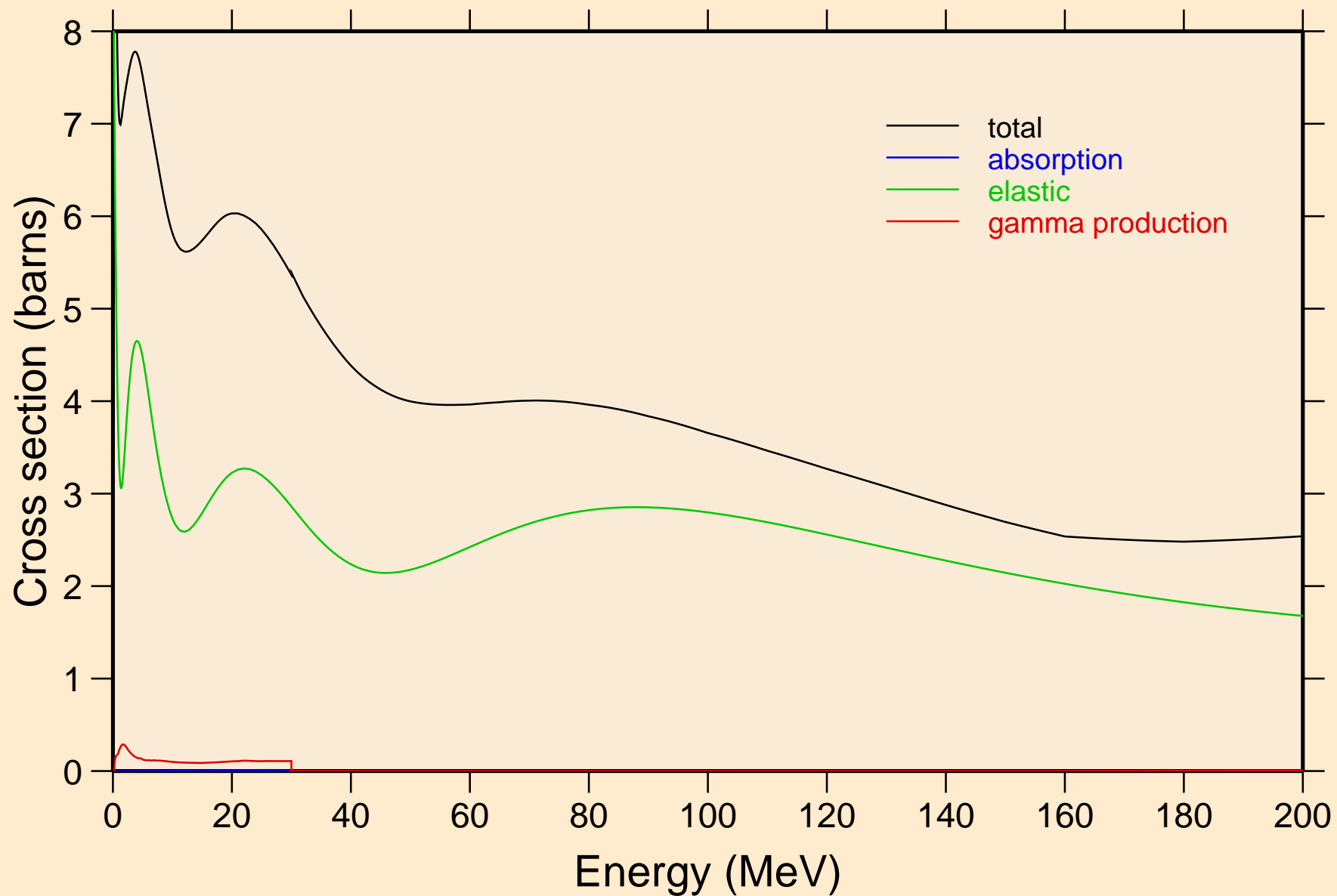


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

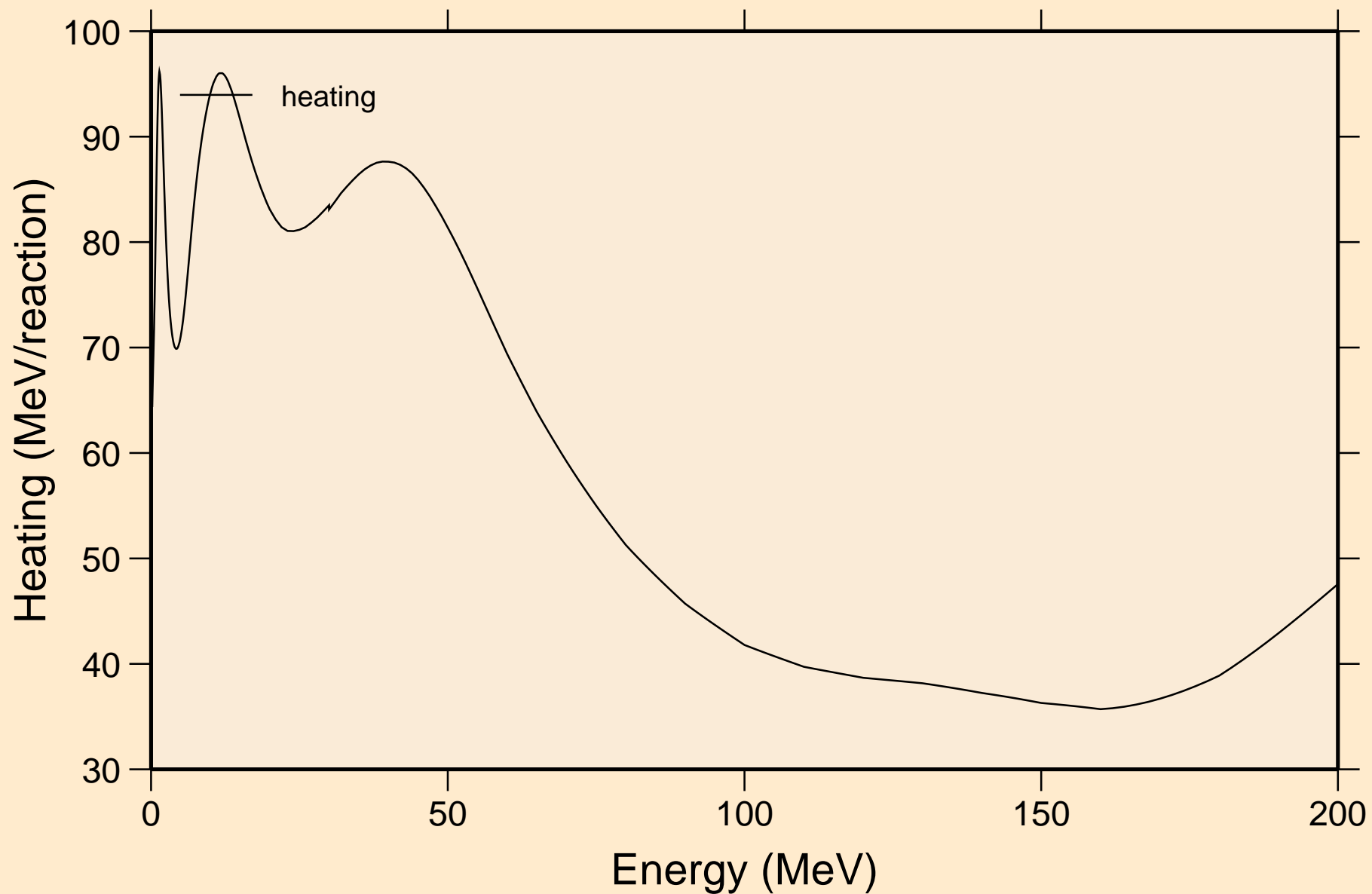


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Principal cross sections

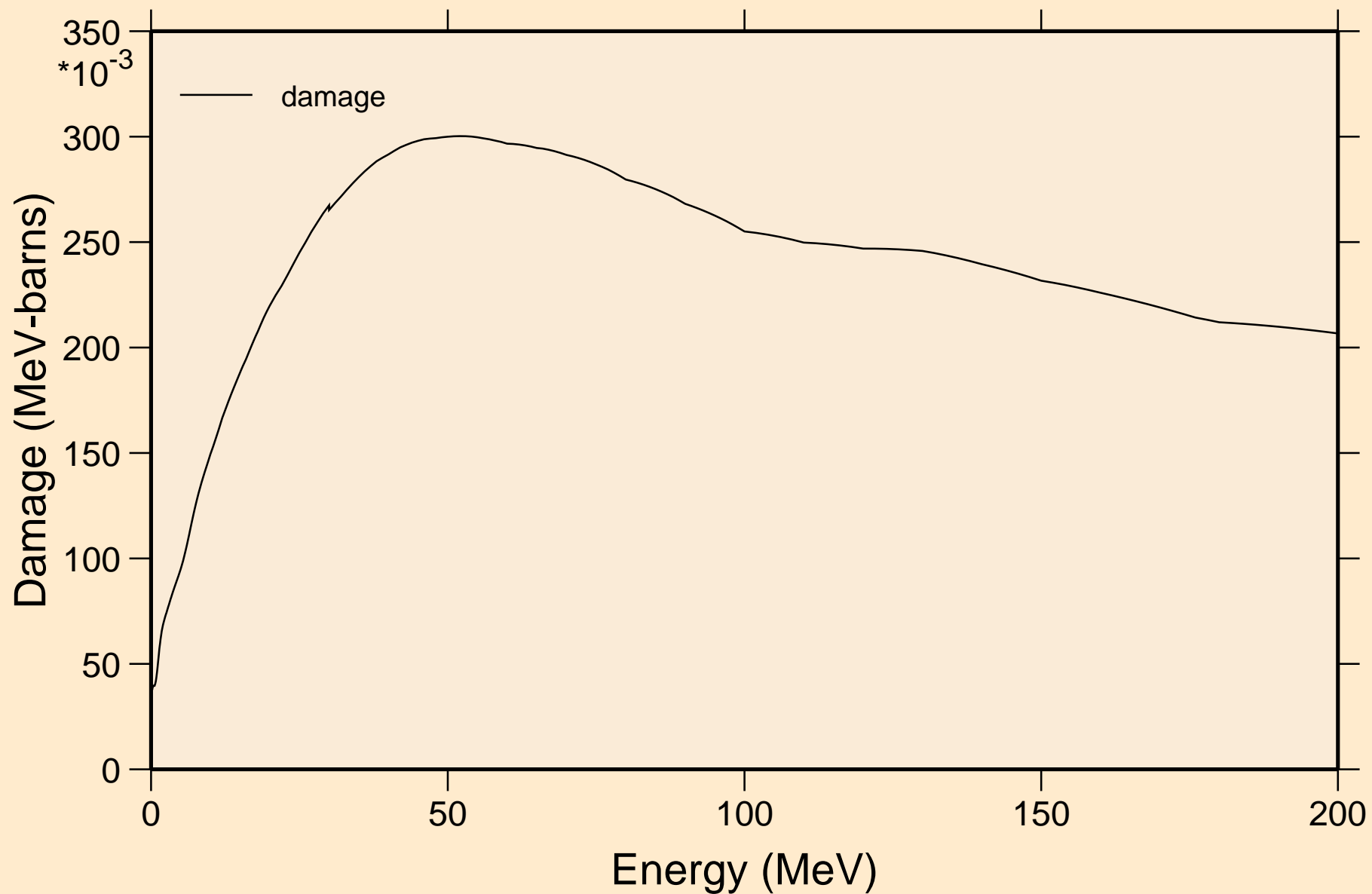


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Heating



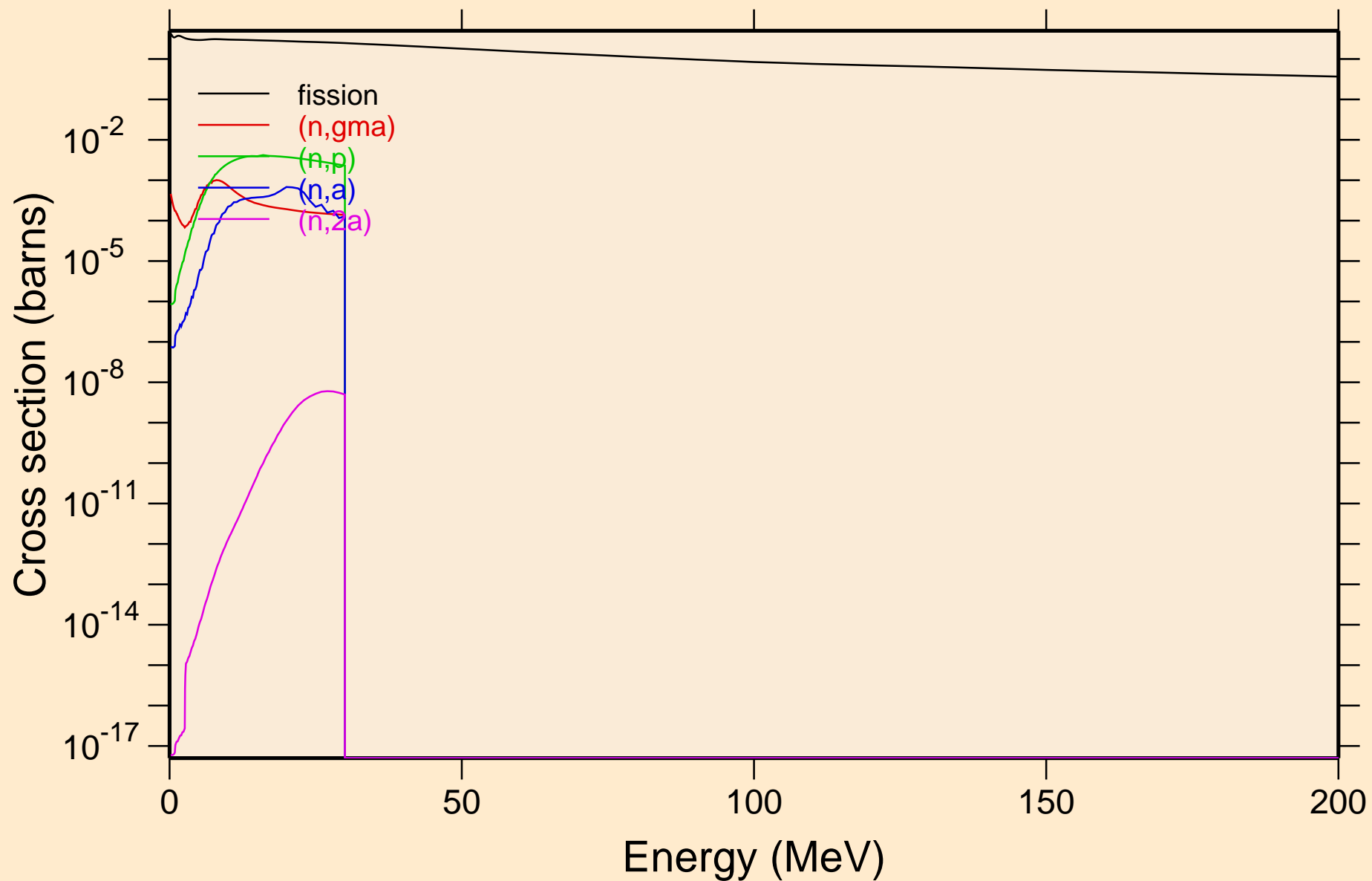


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Damage

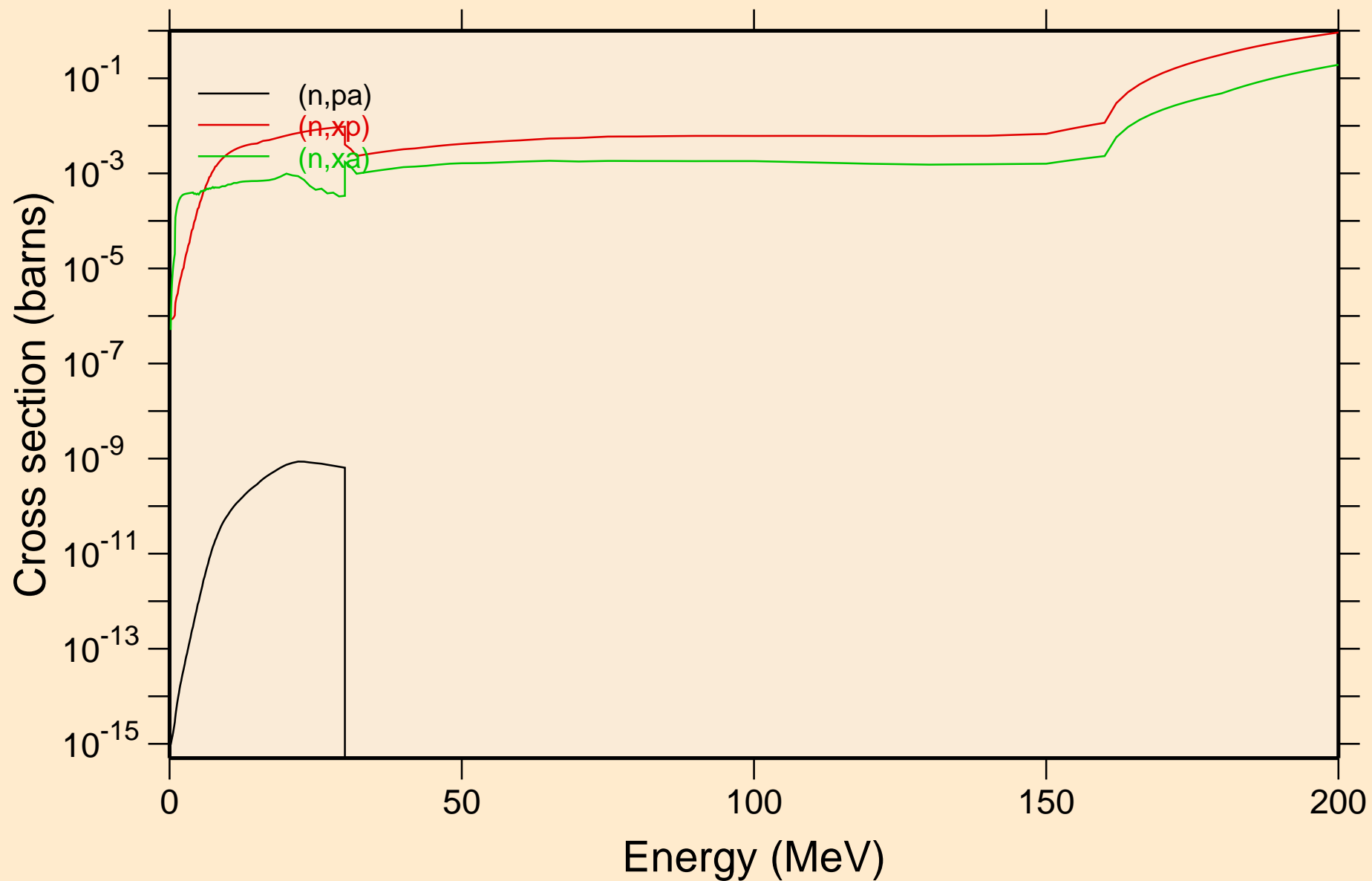


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

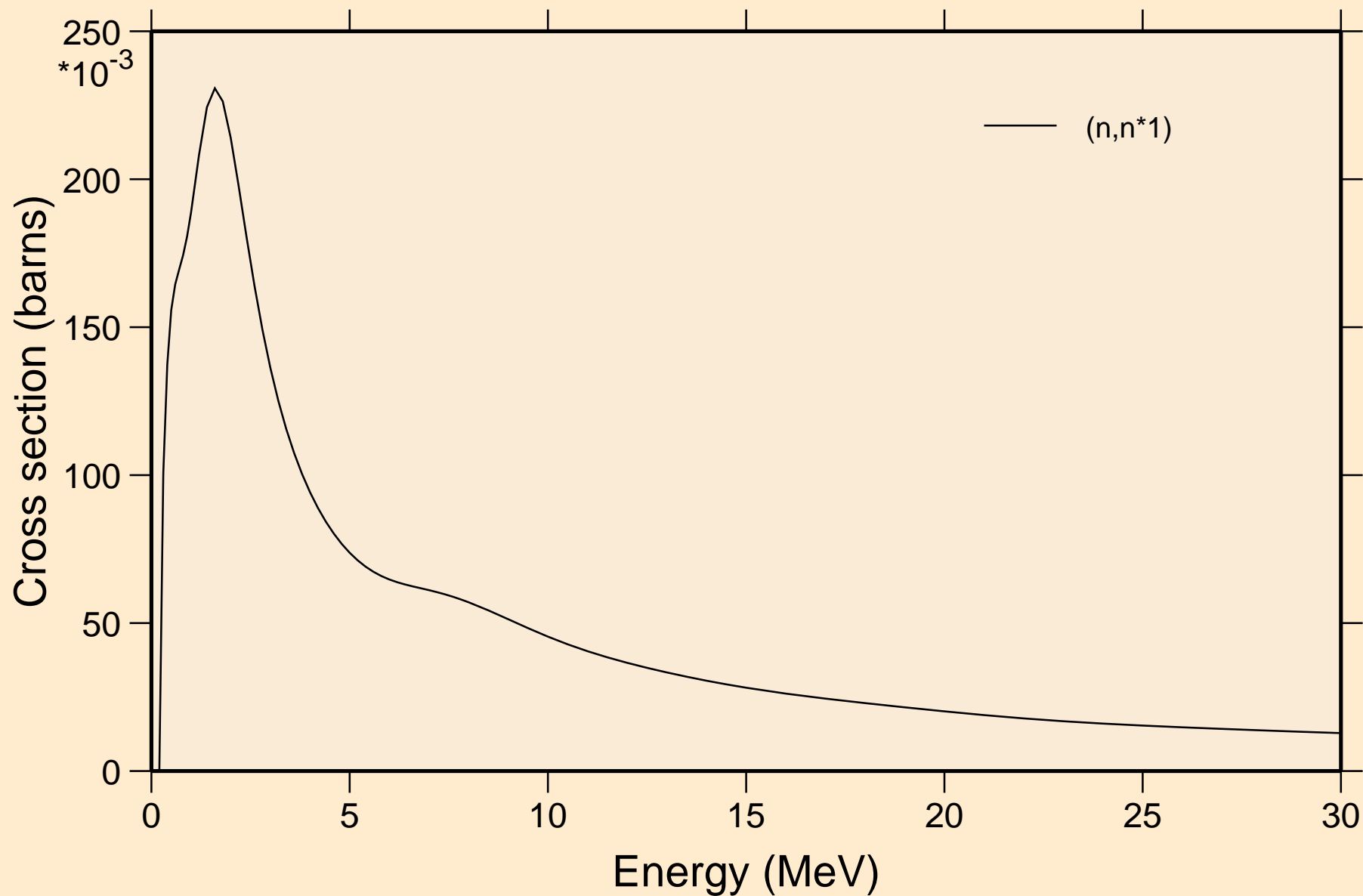
## Non-threshold reactions



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Non-threshold reactions

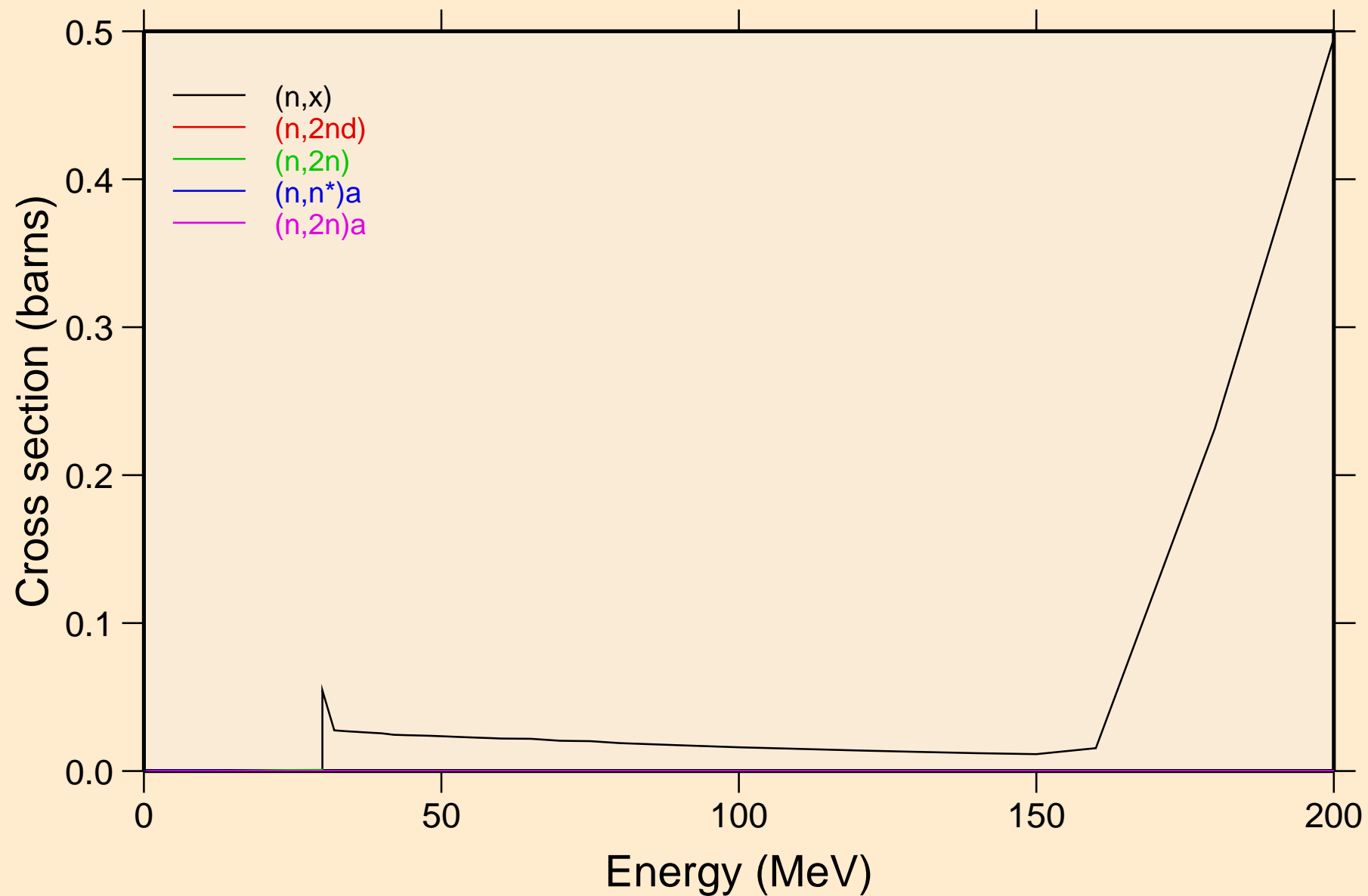


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Inelastic levels



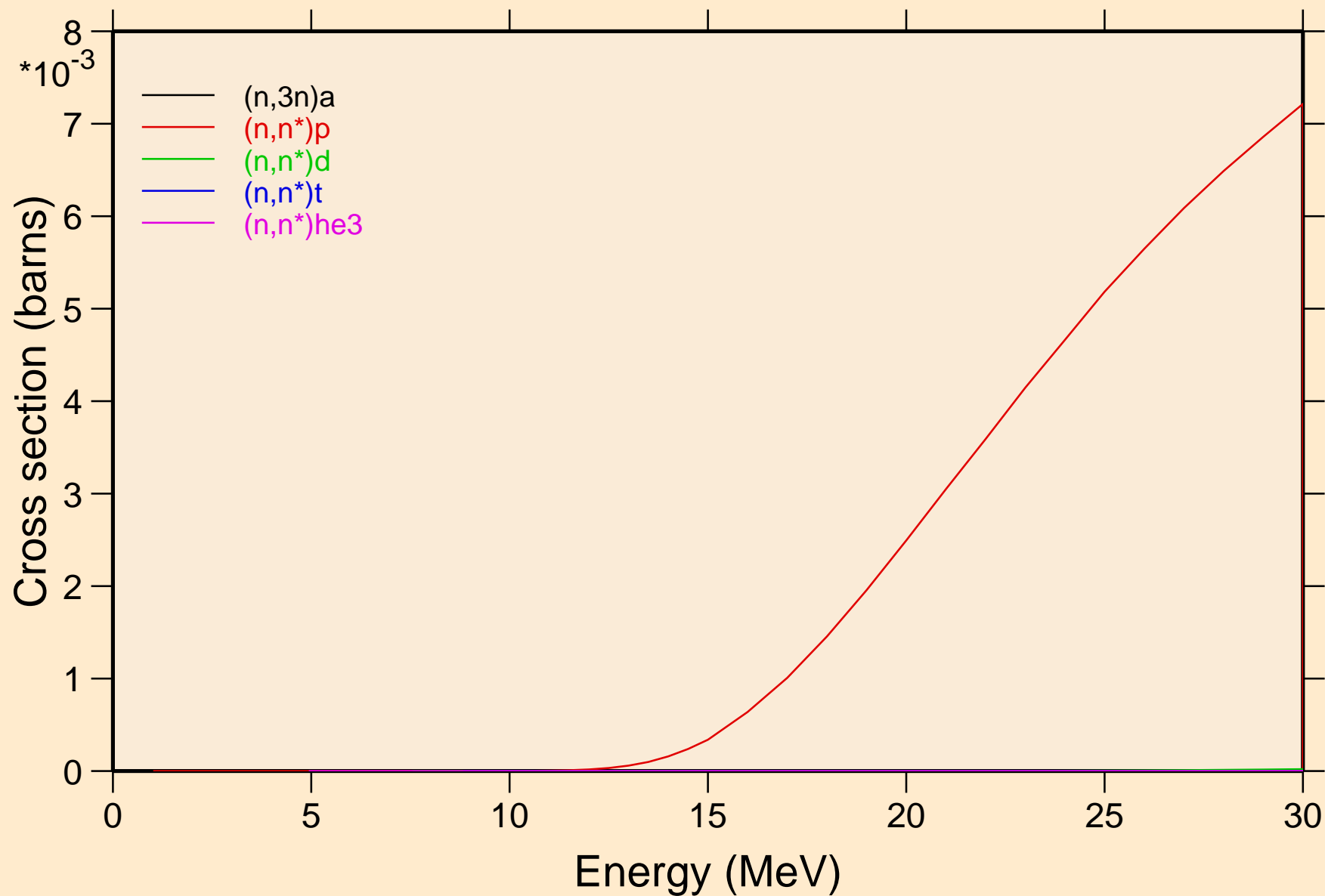
# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



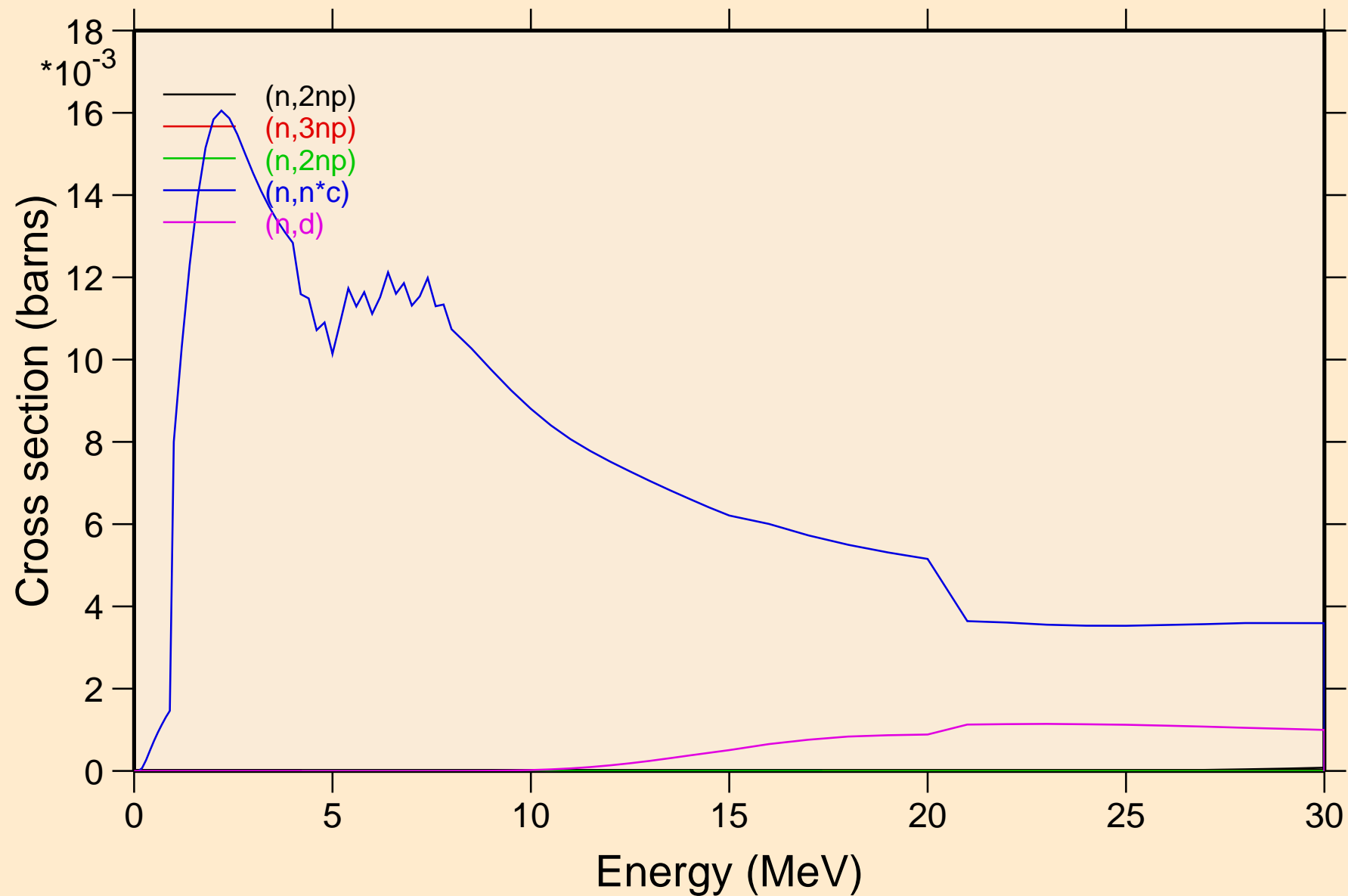
# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions

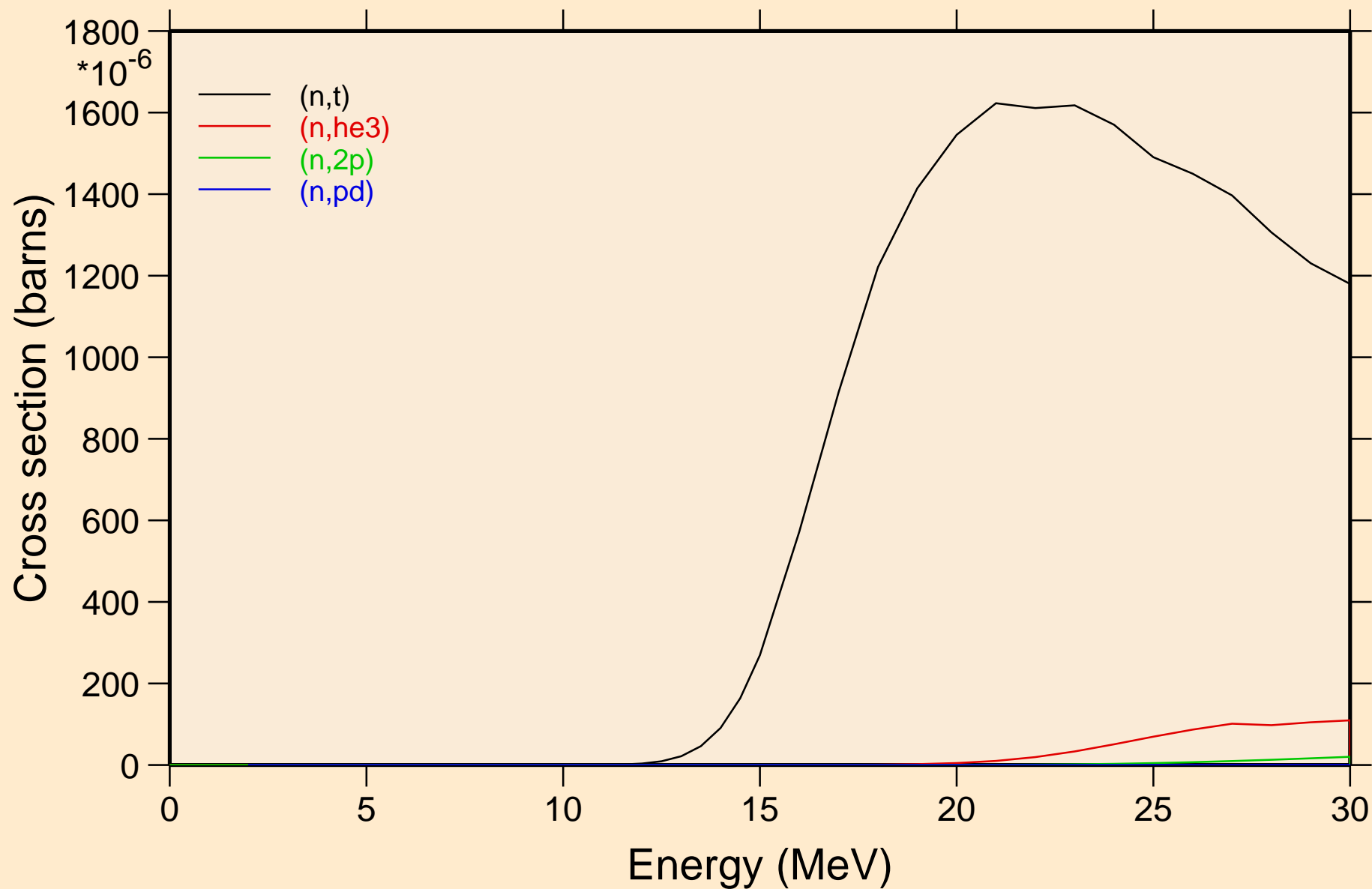


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

## Threshold reactions



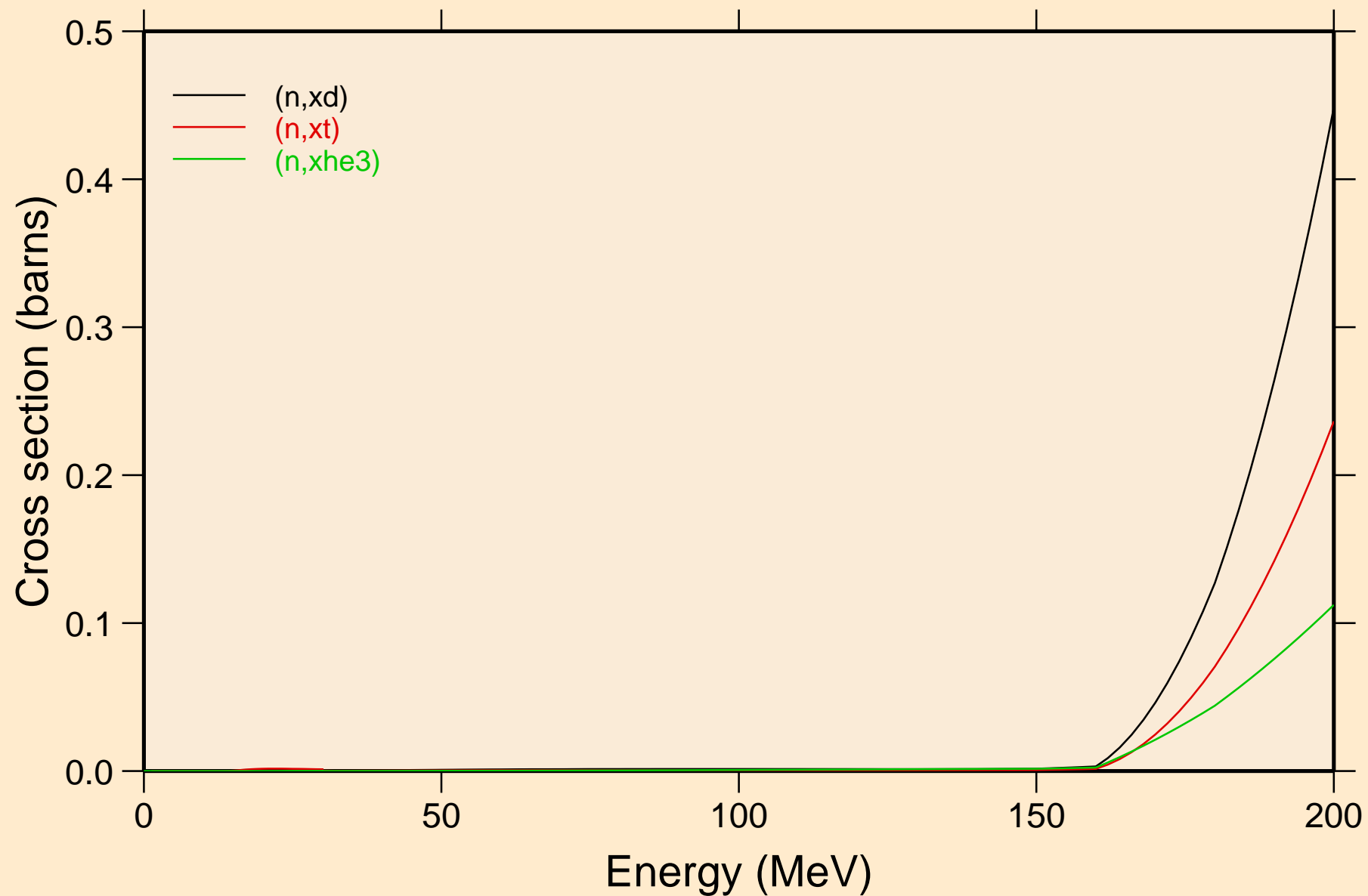
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Threshold reactions



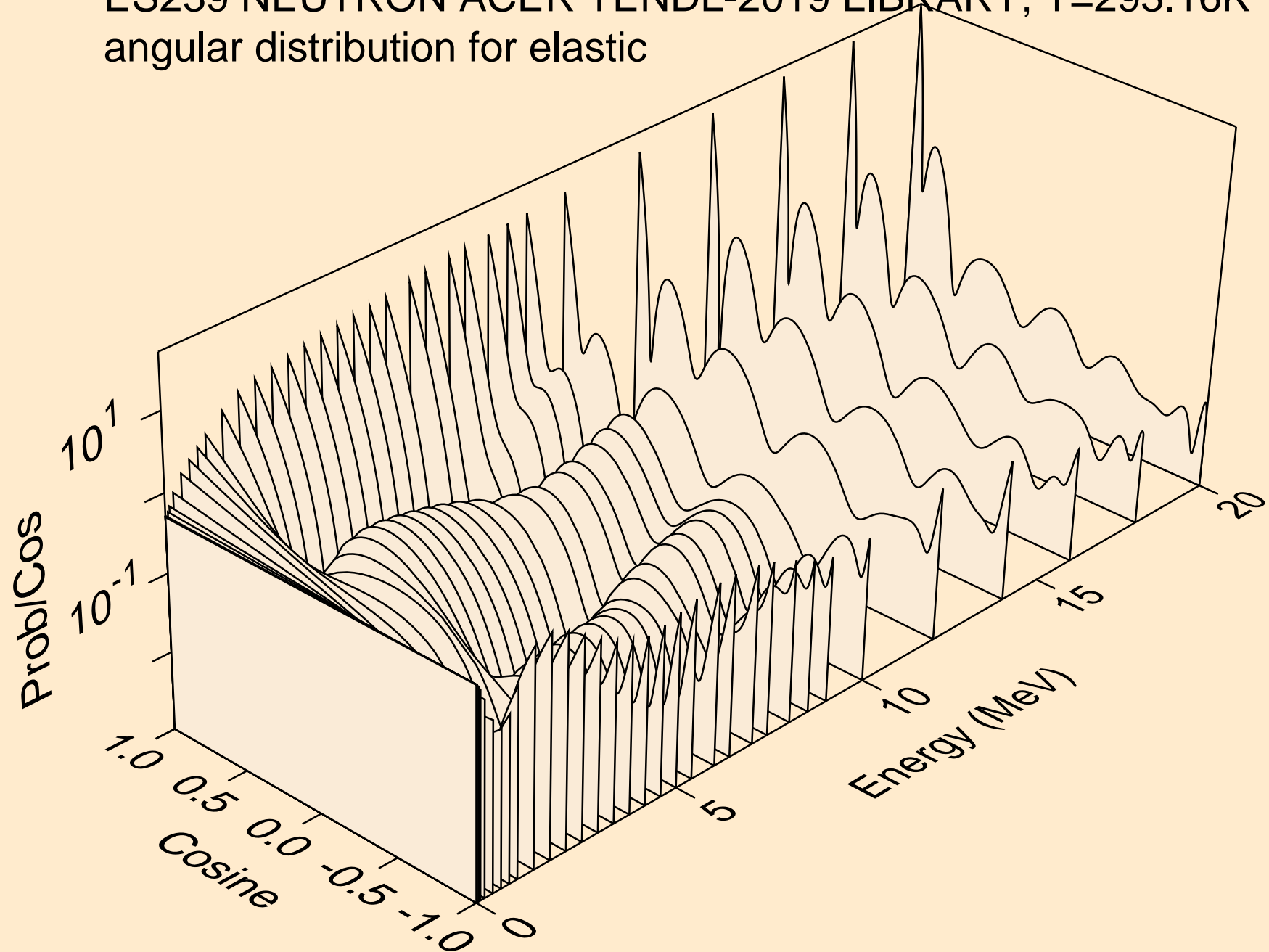


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

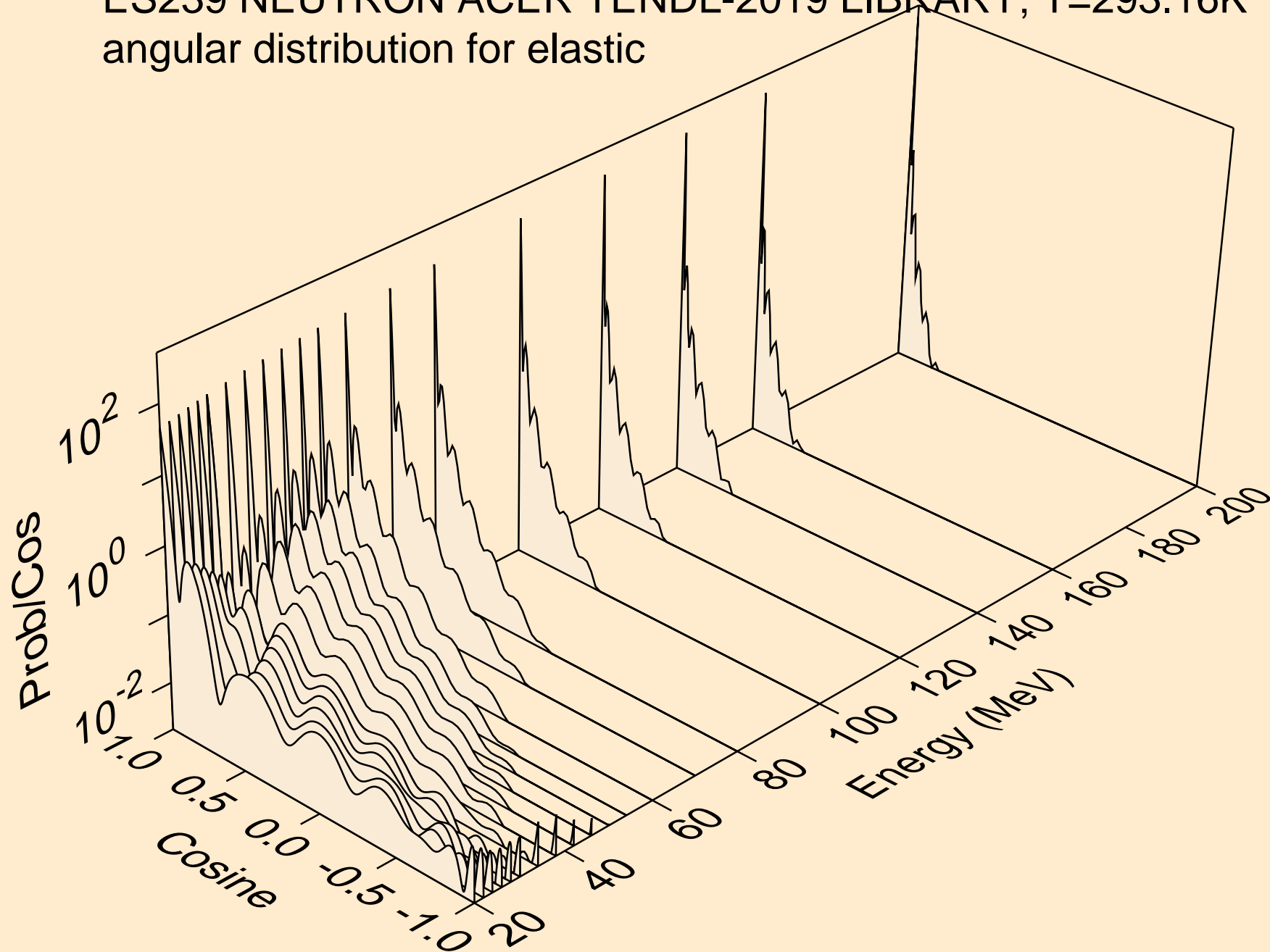
## Threshold reactions



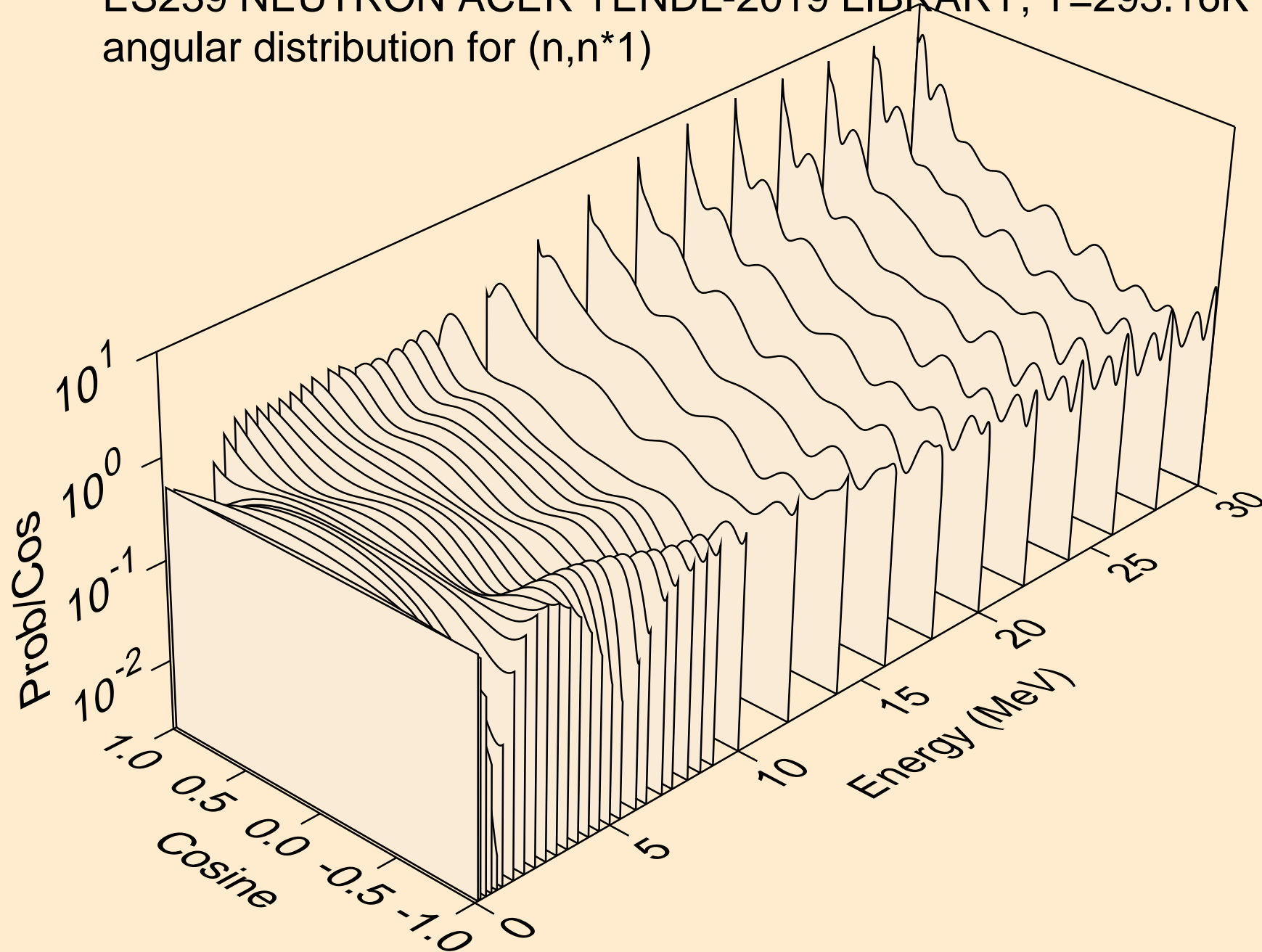
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for elastic

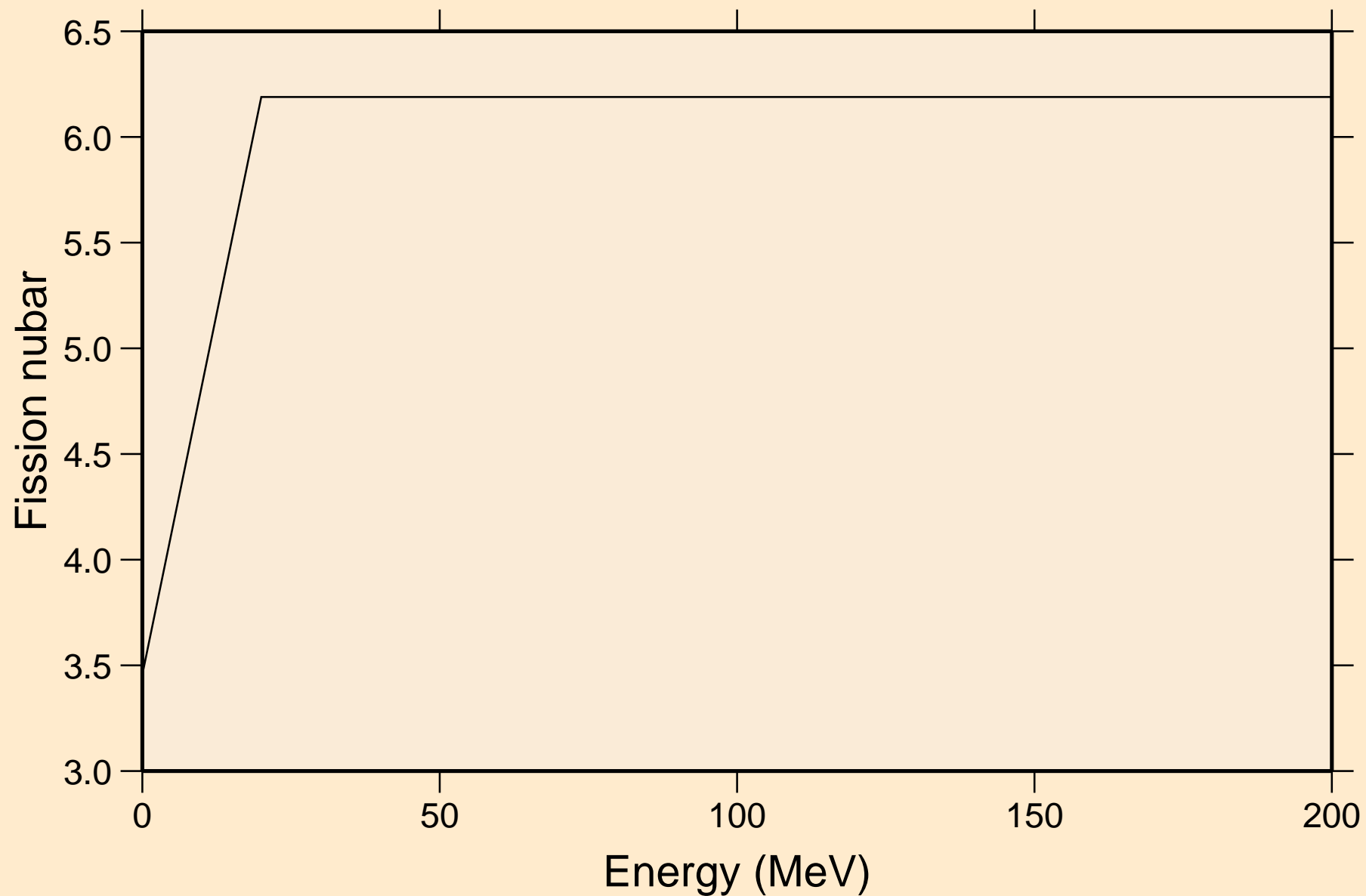


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
angular distribution for (n,n\*1)

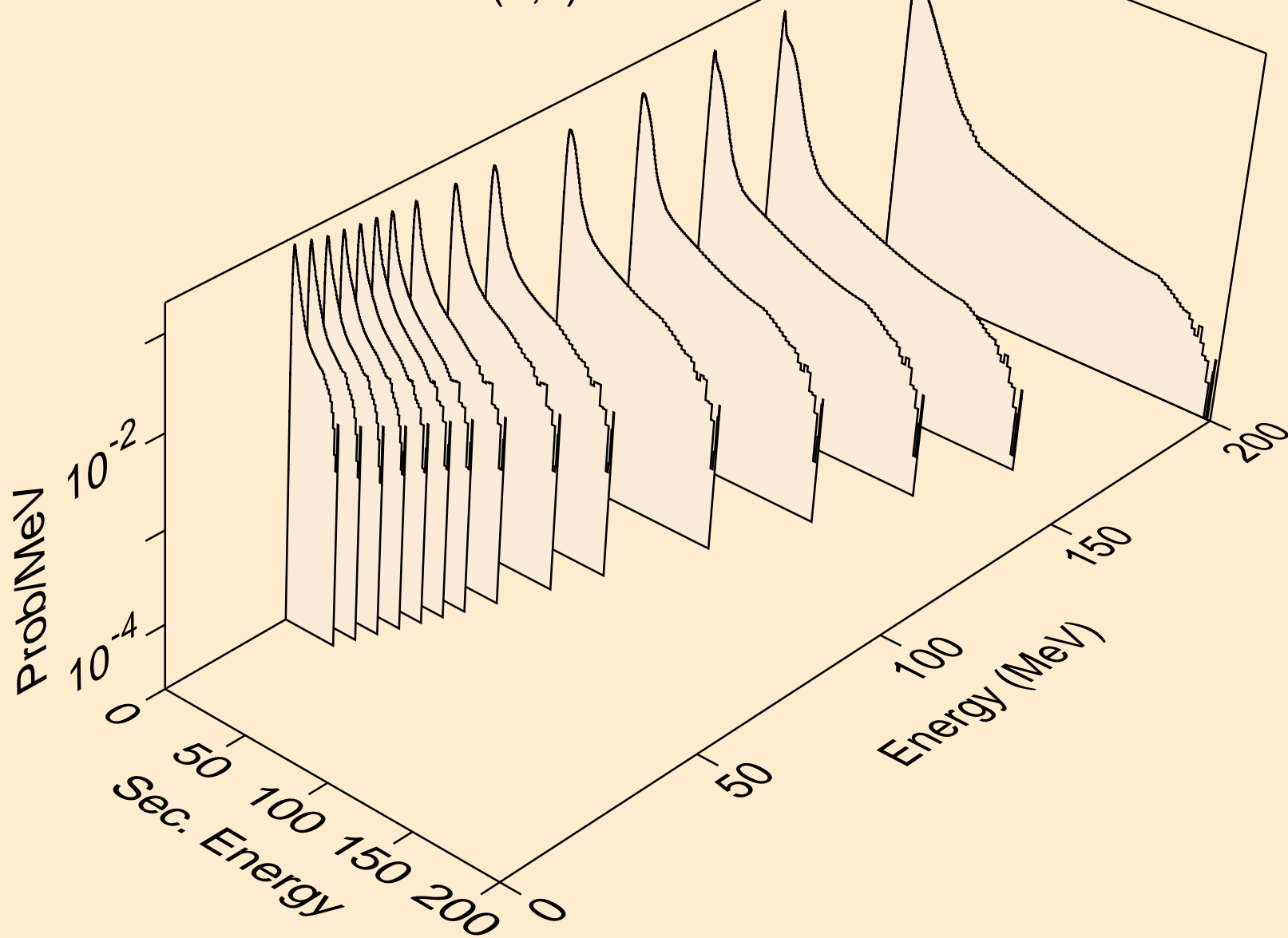


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

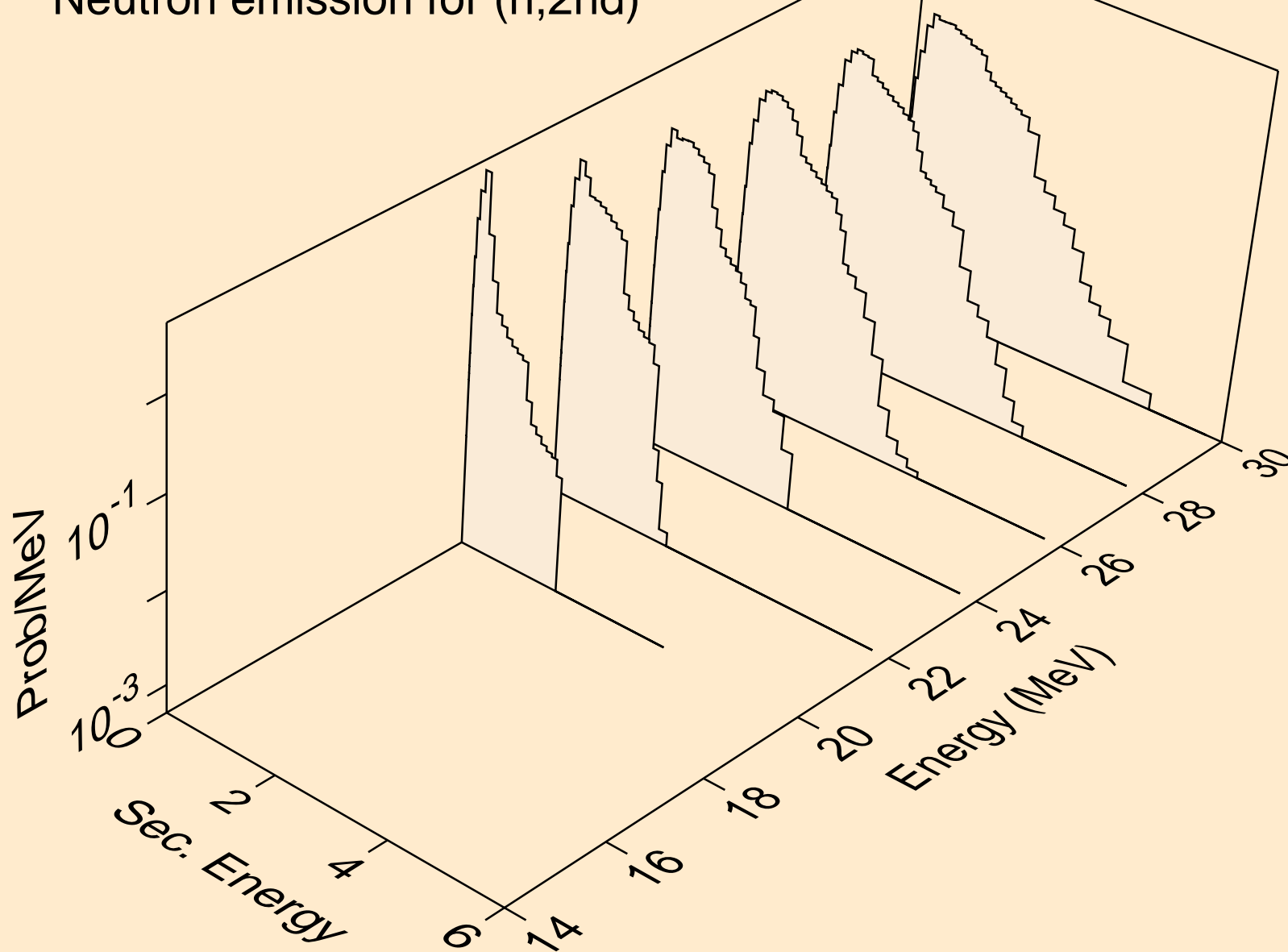
Total fission nubar



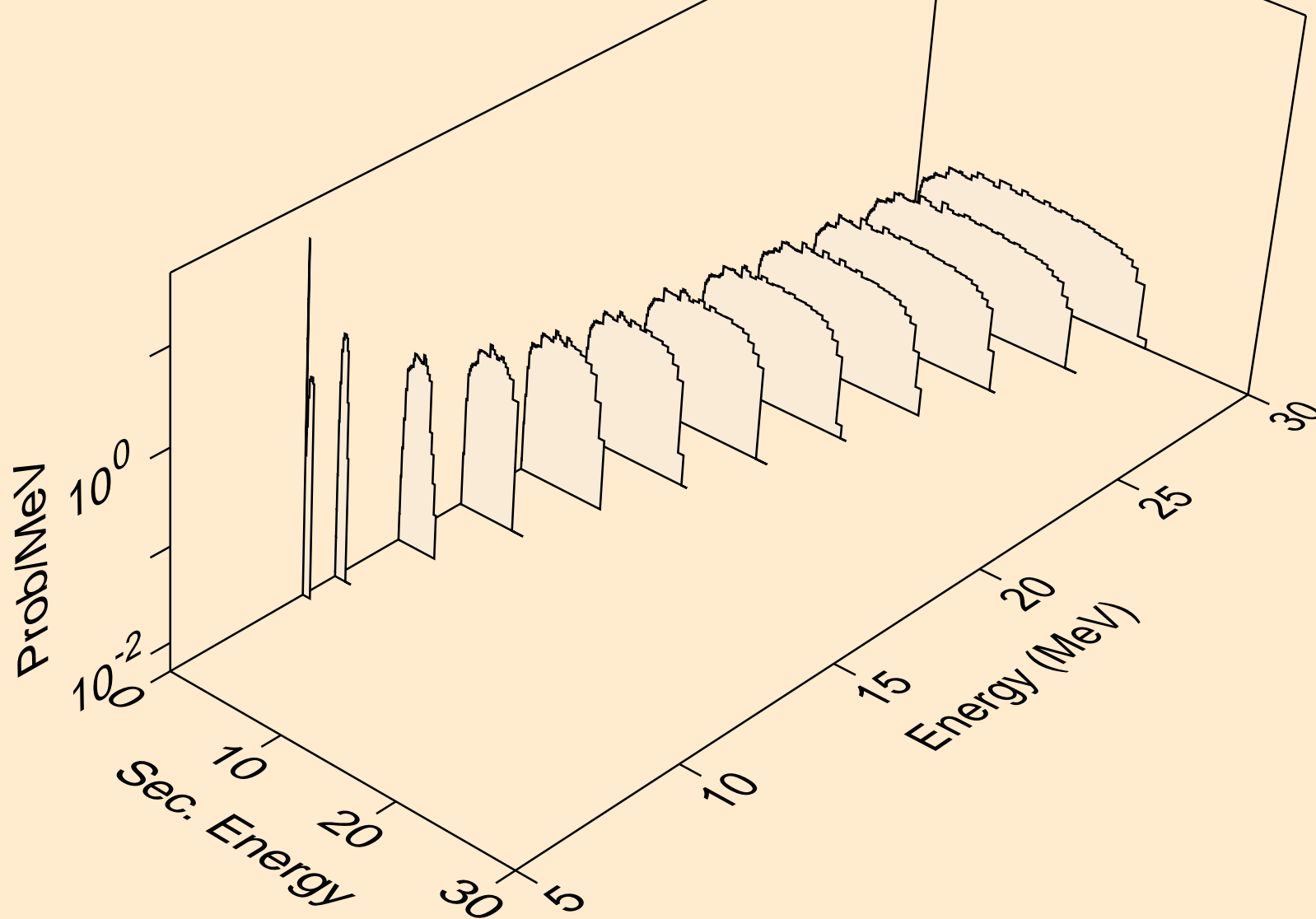
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,x)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2nd)

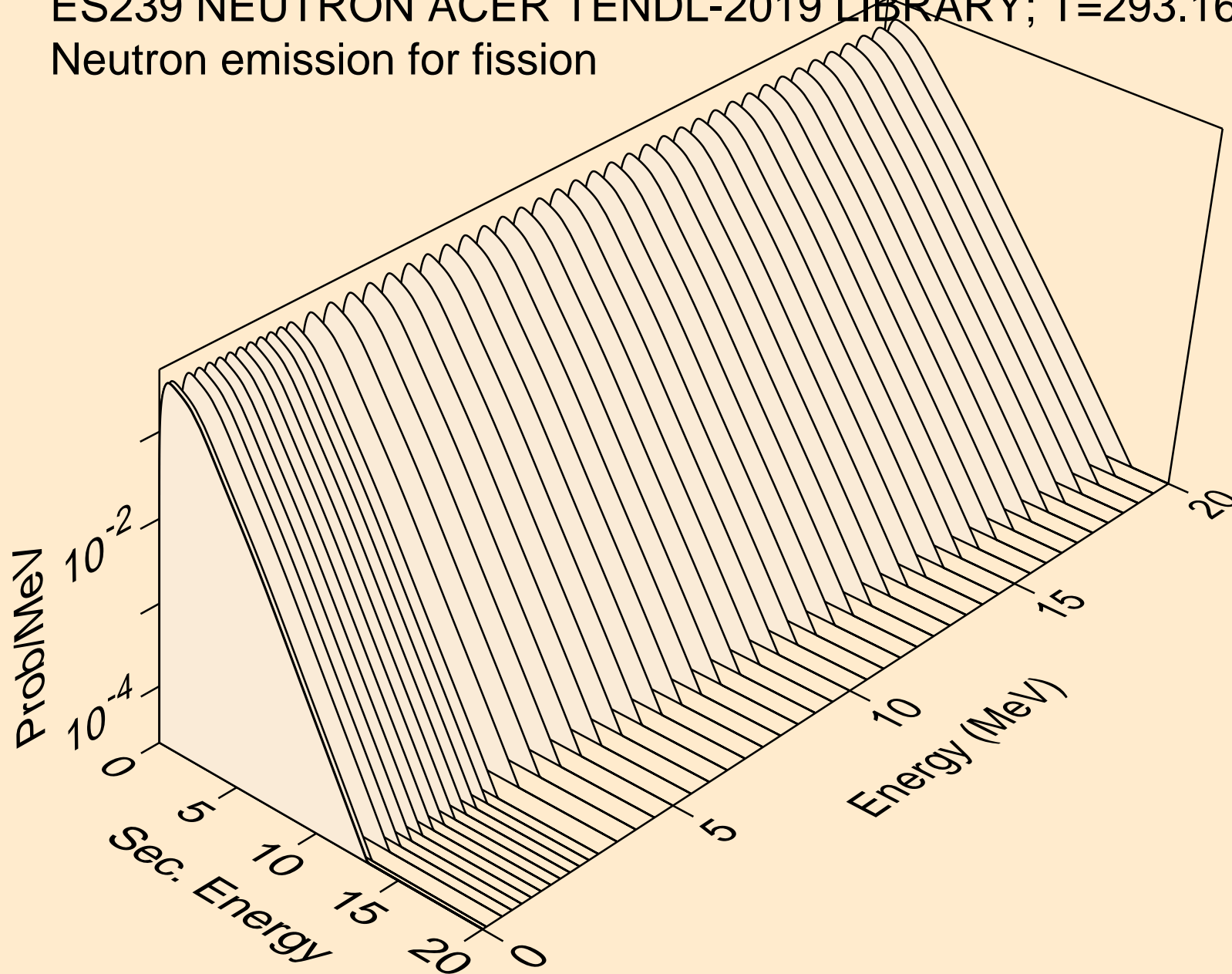


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)

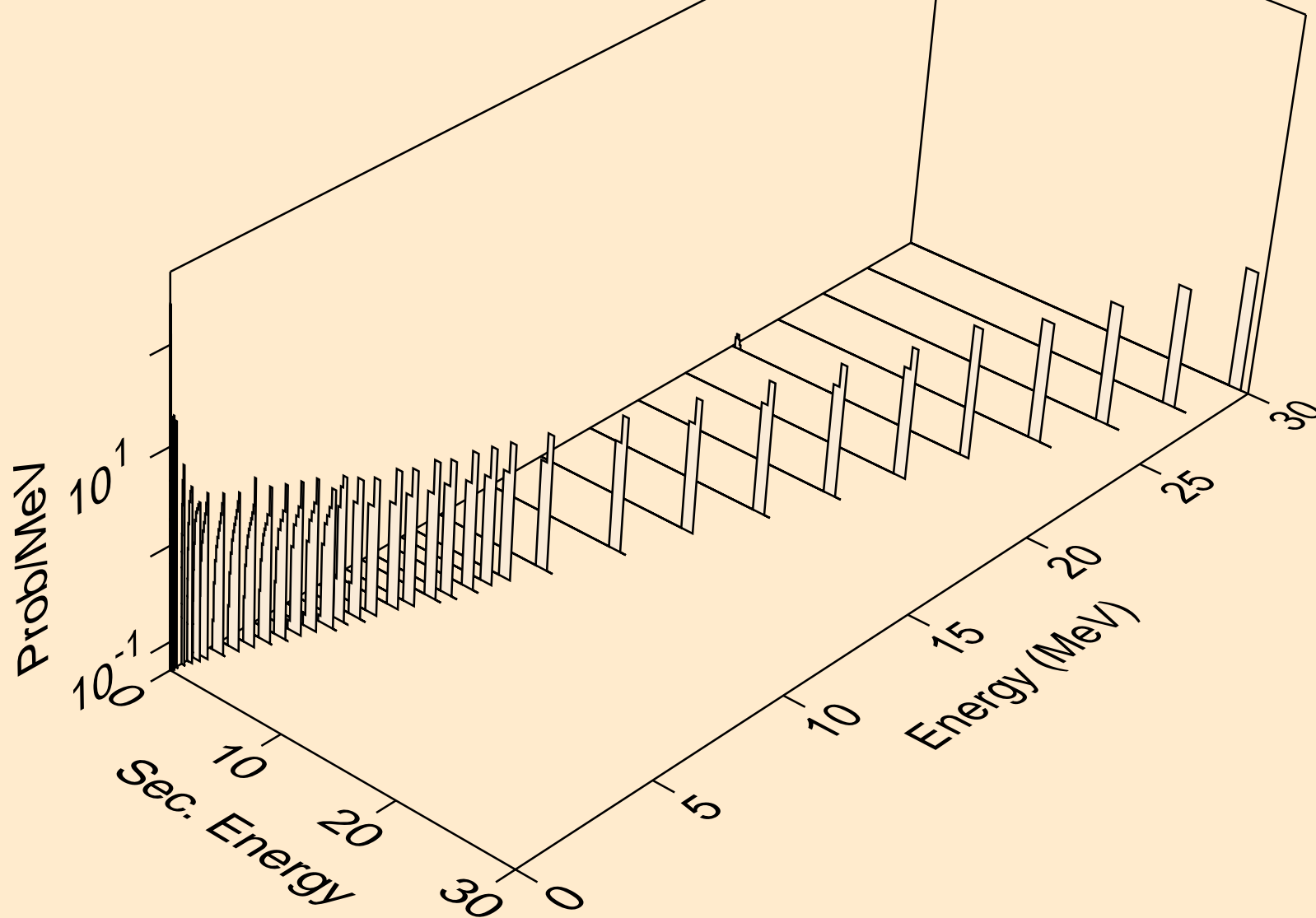




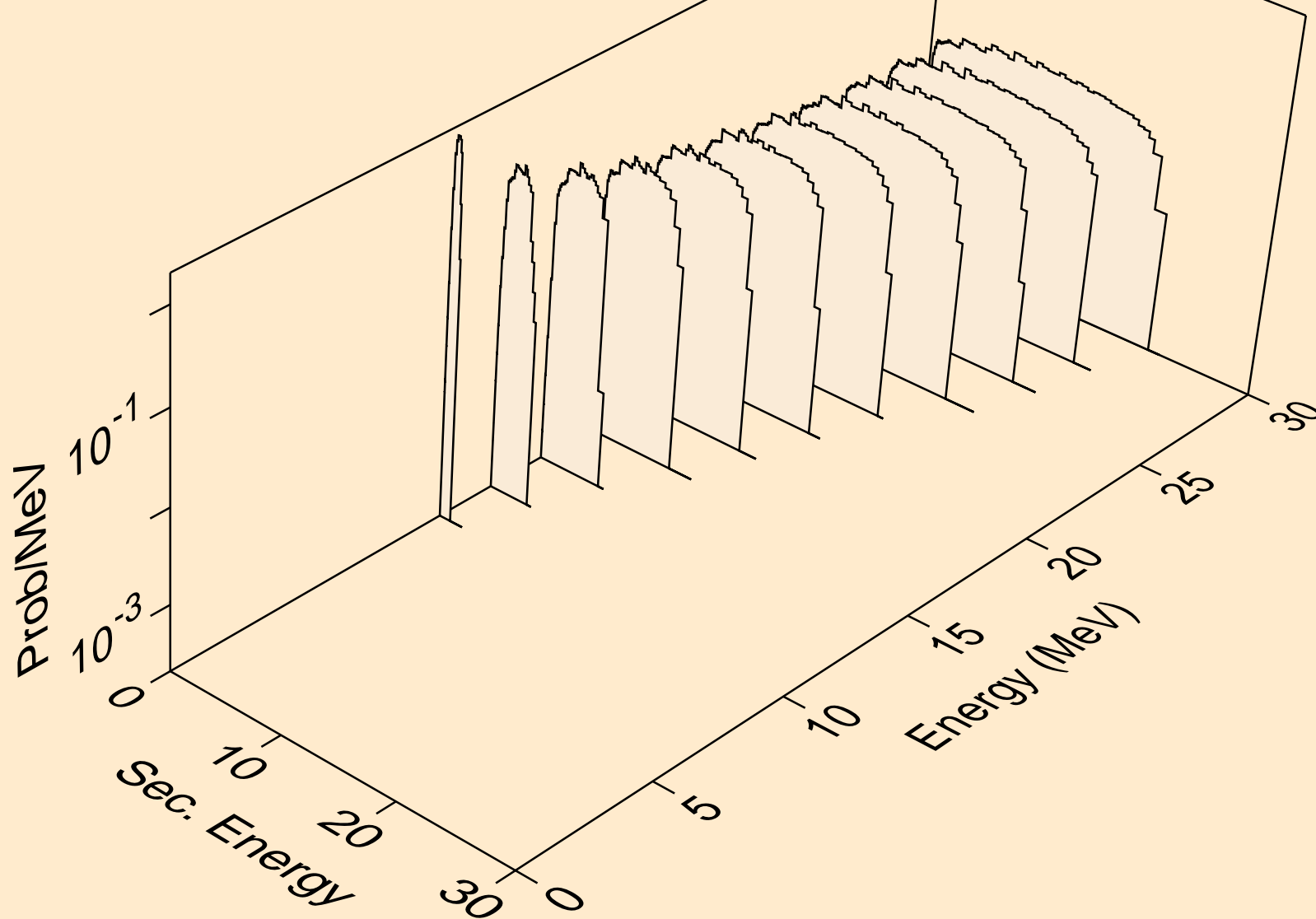
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for fission



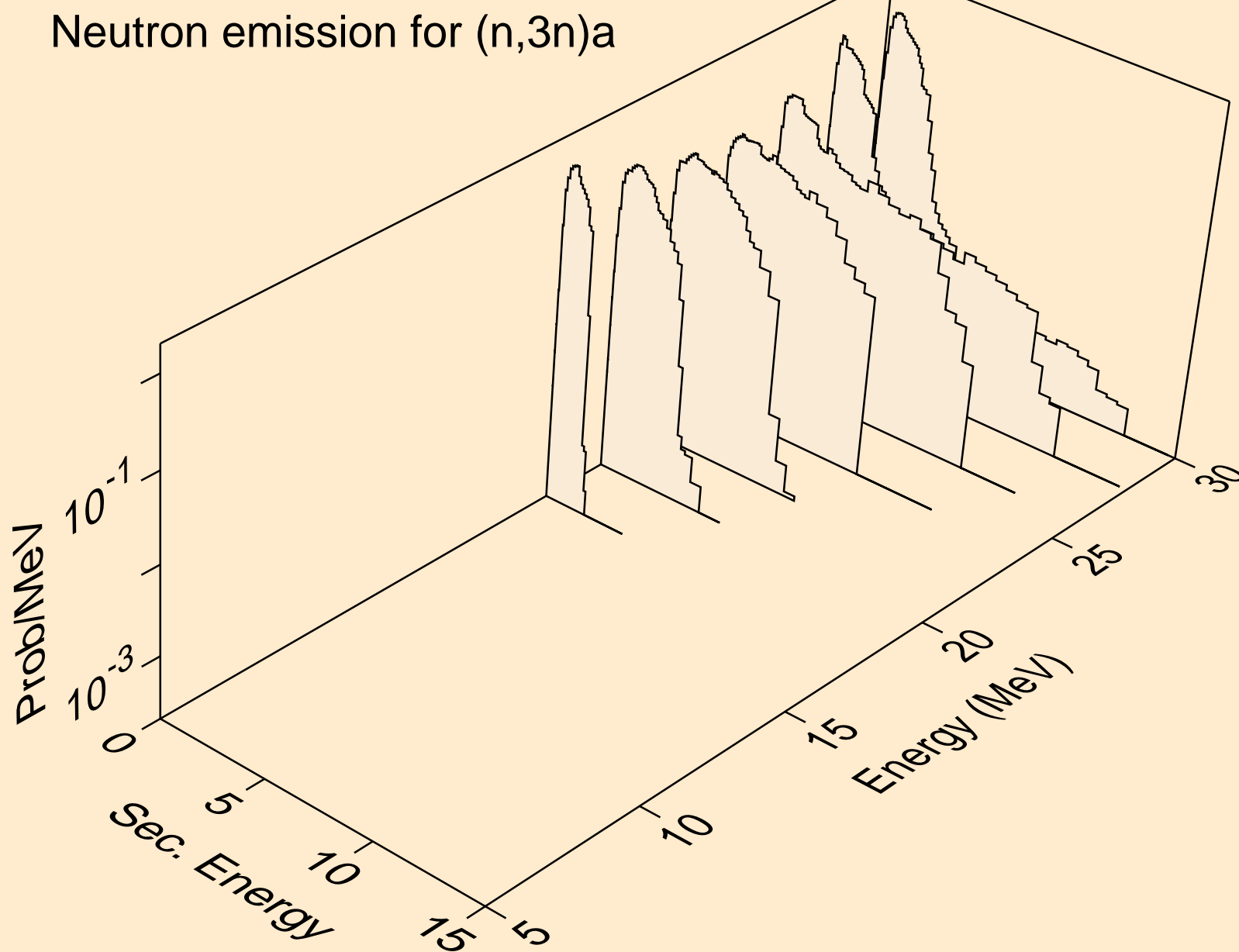
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)a



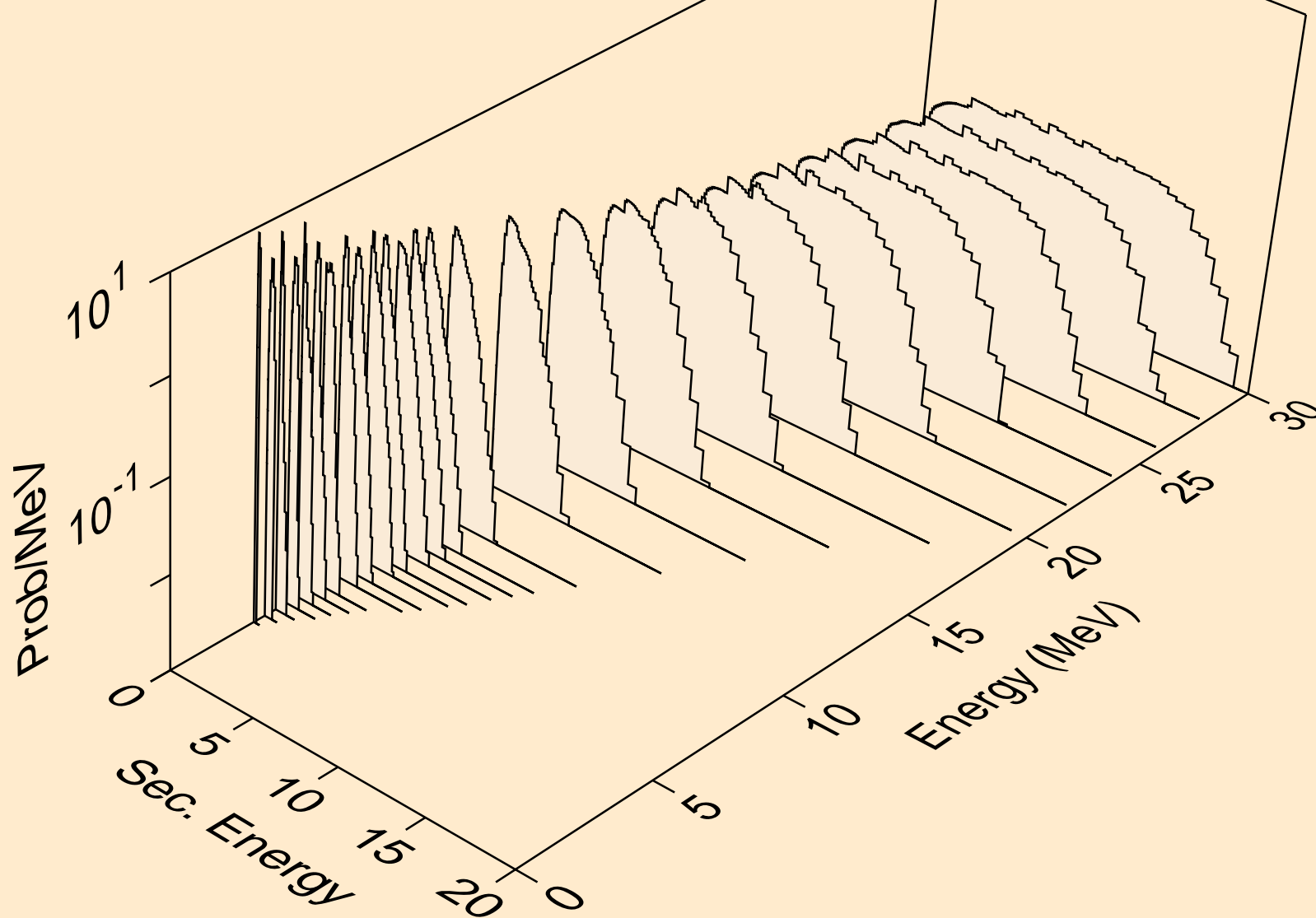
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2n)a



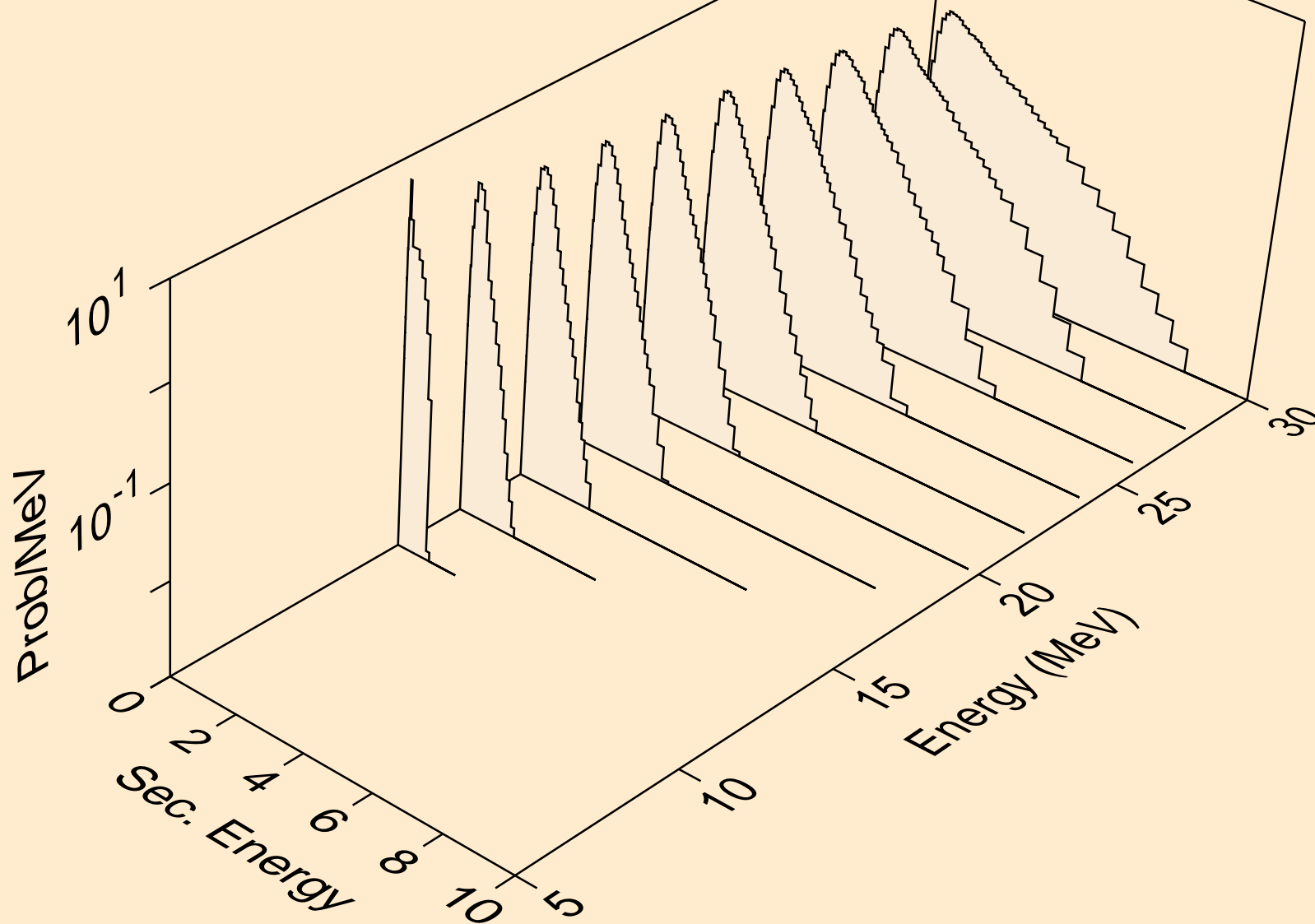
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3n)a



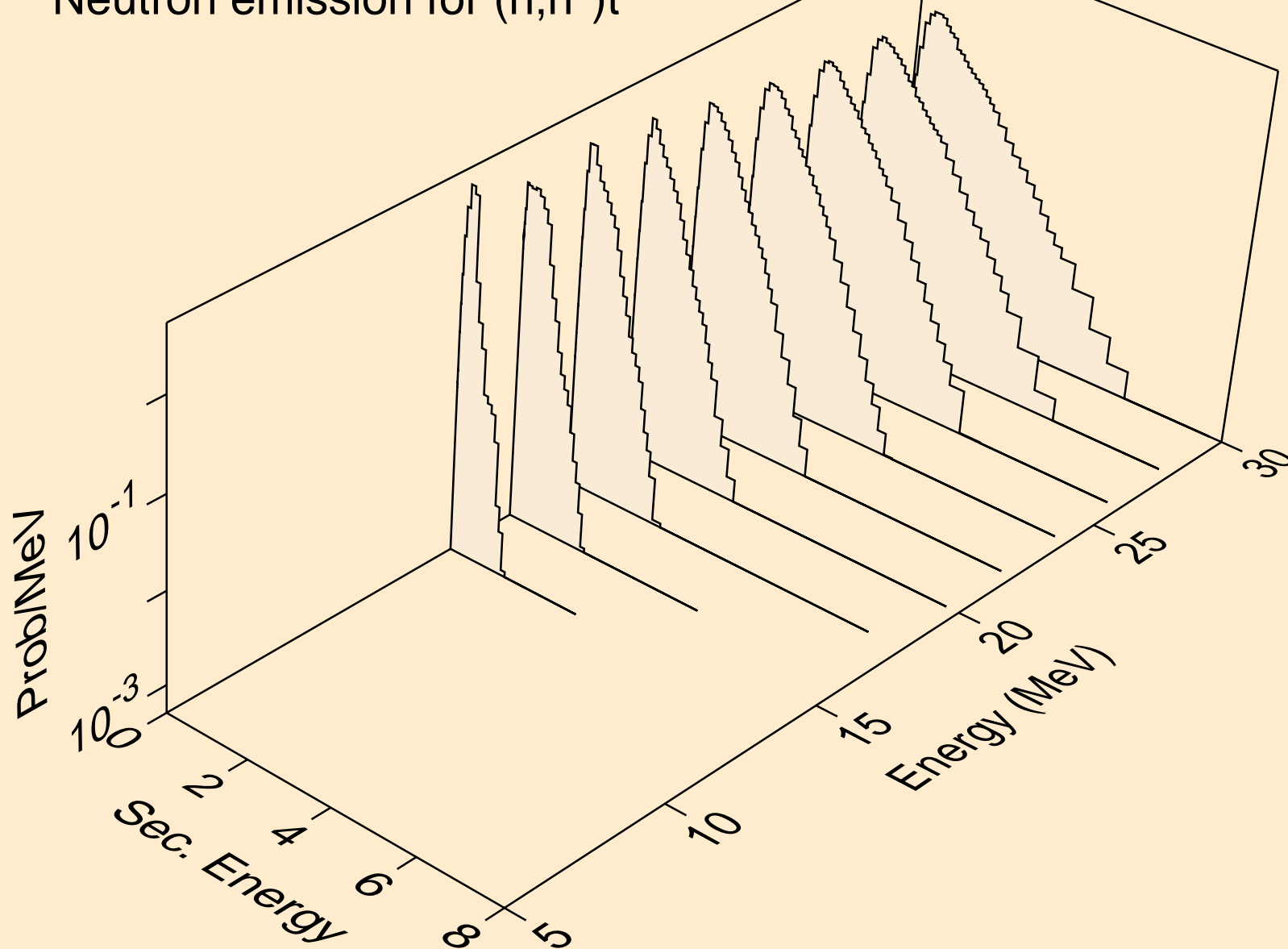
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)p



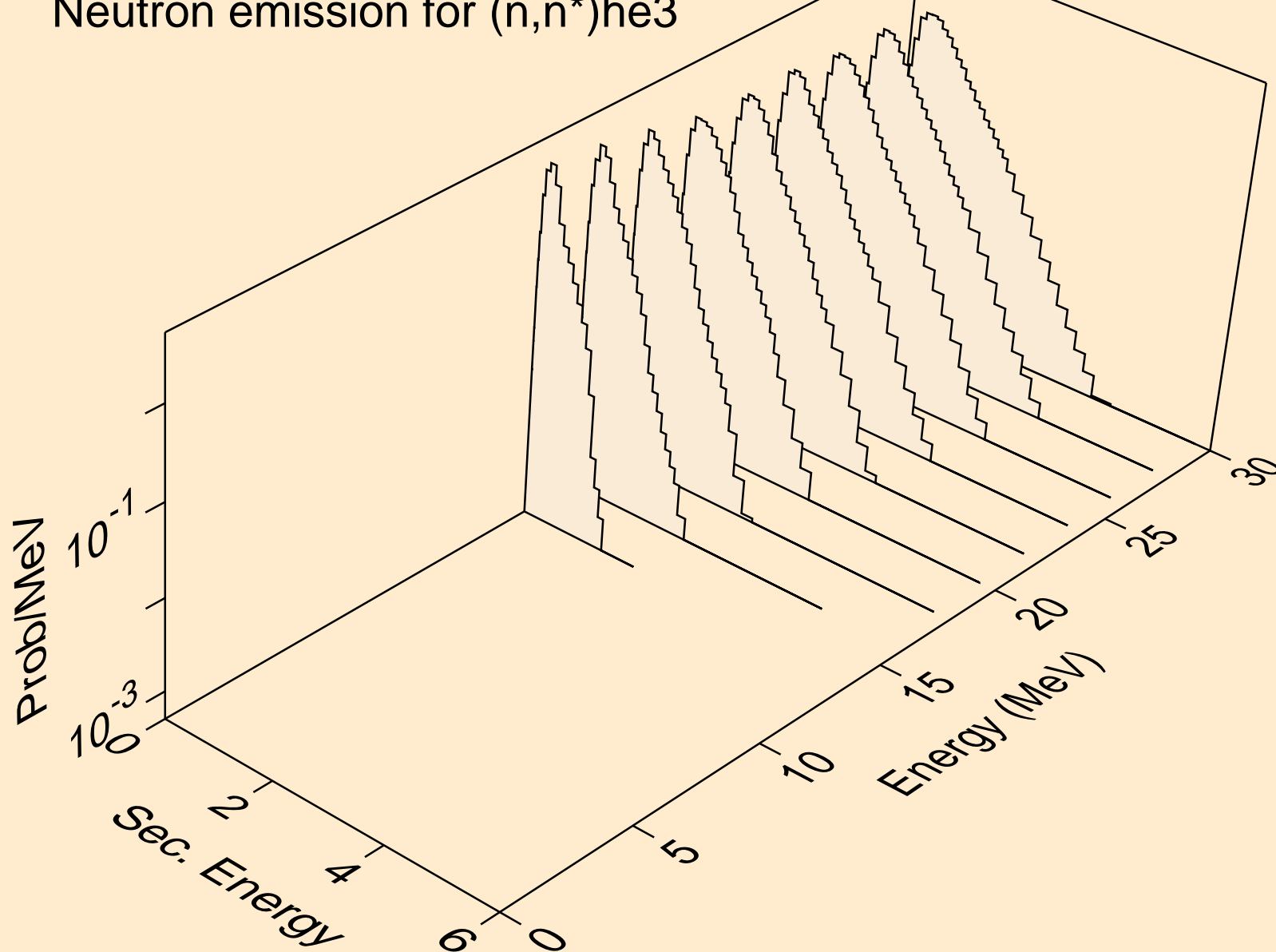
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)d



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)t

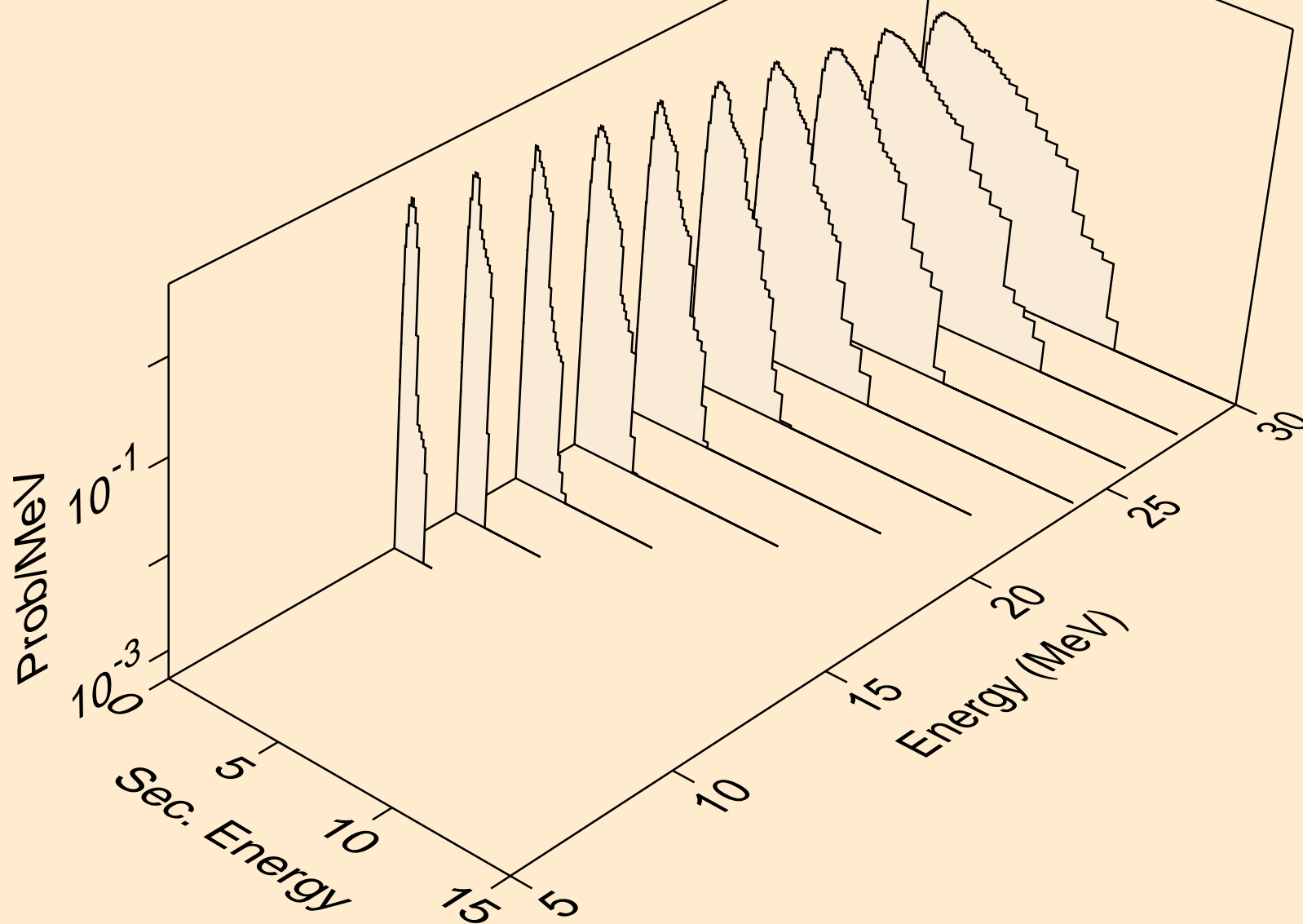


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*)he3

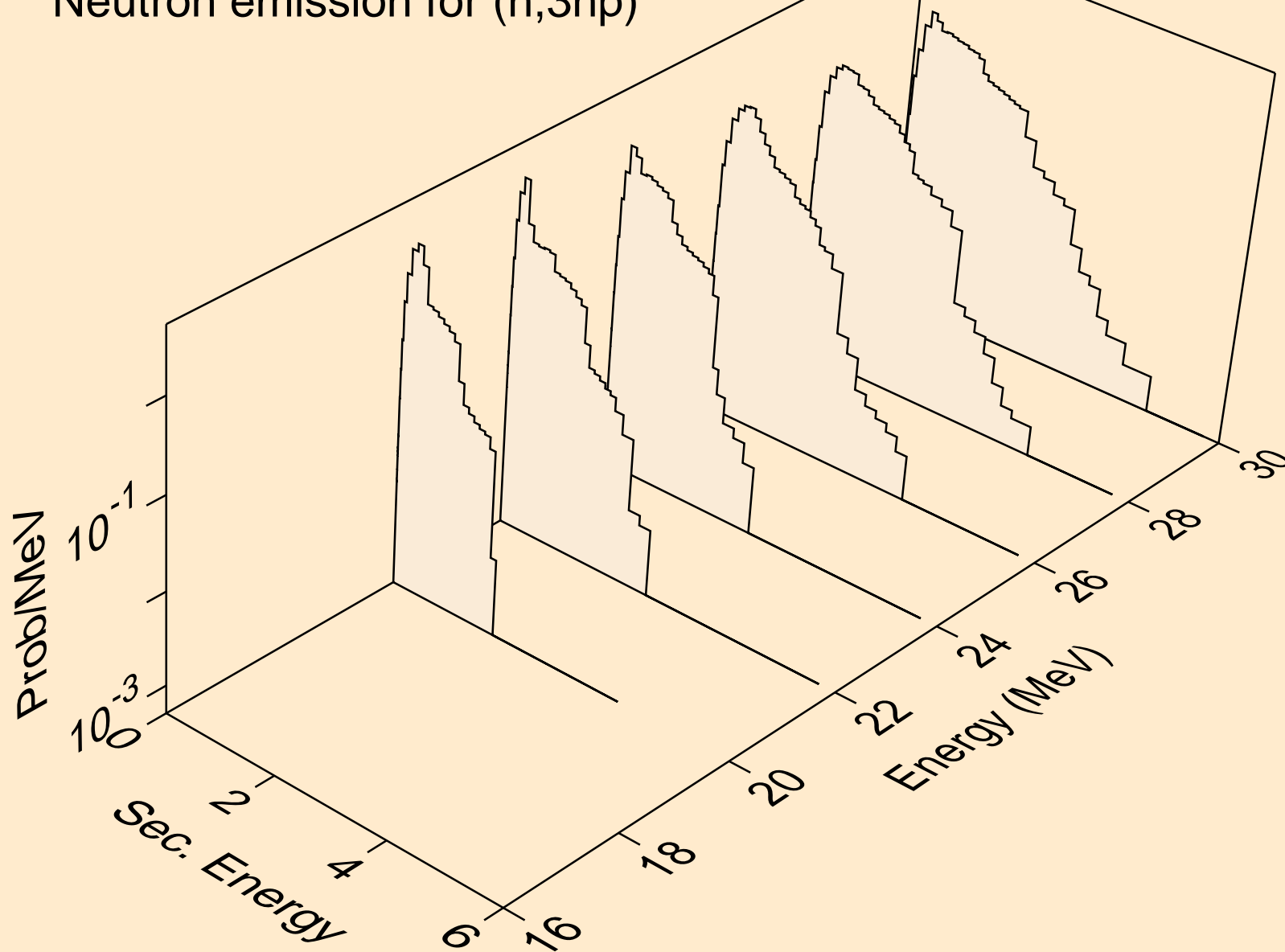




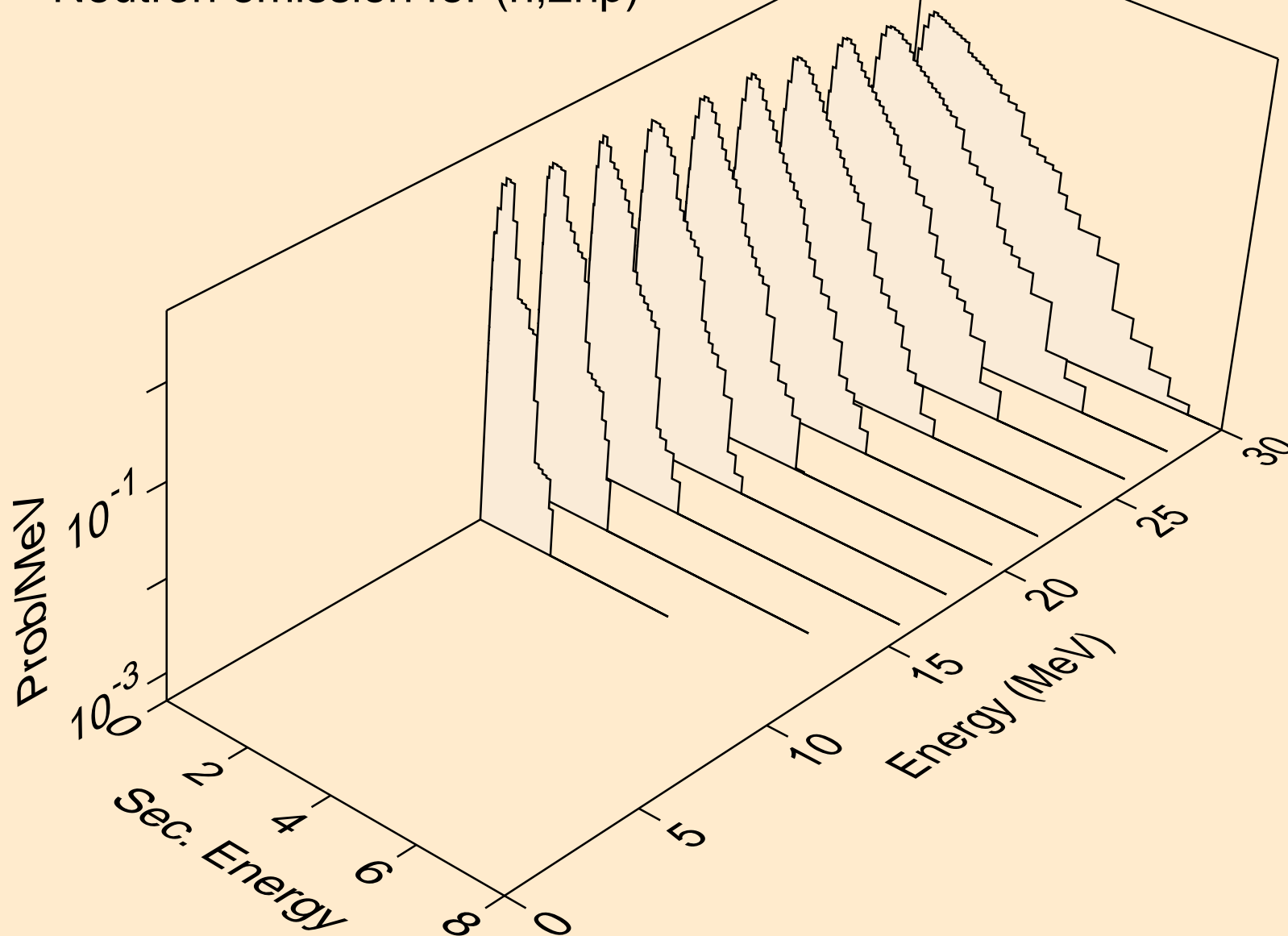
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)



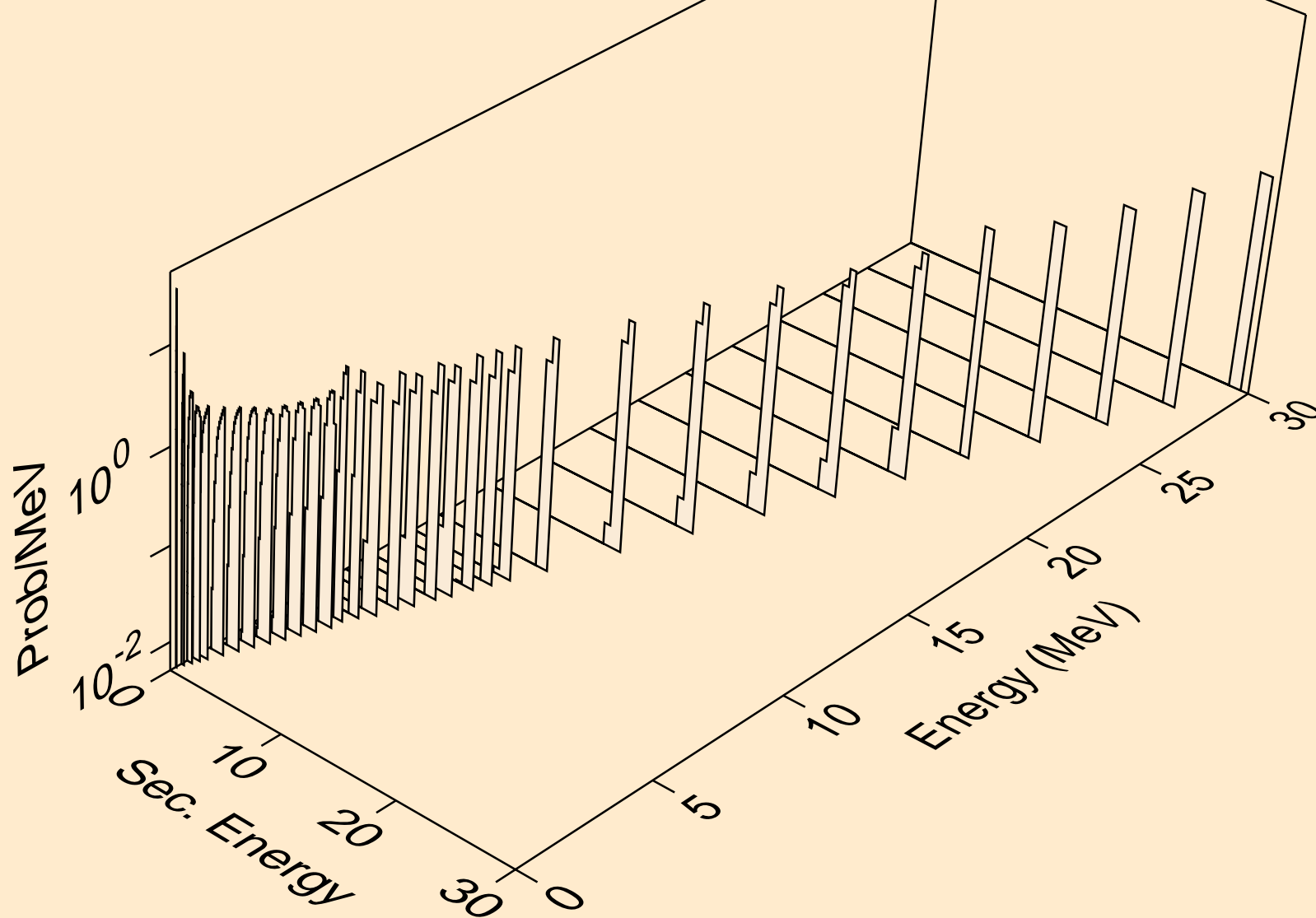
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,3np)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,2np)

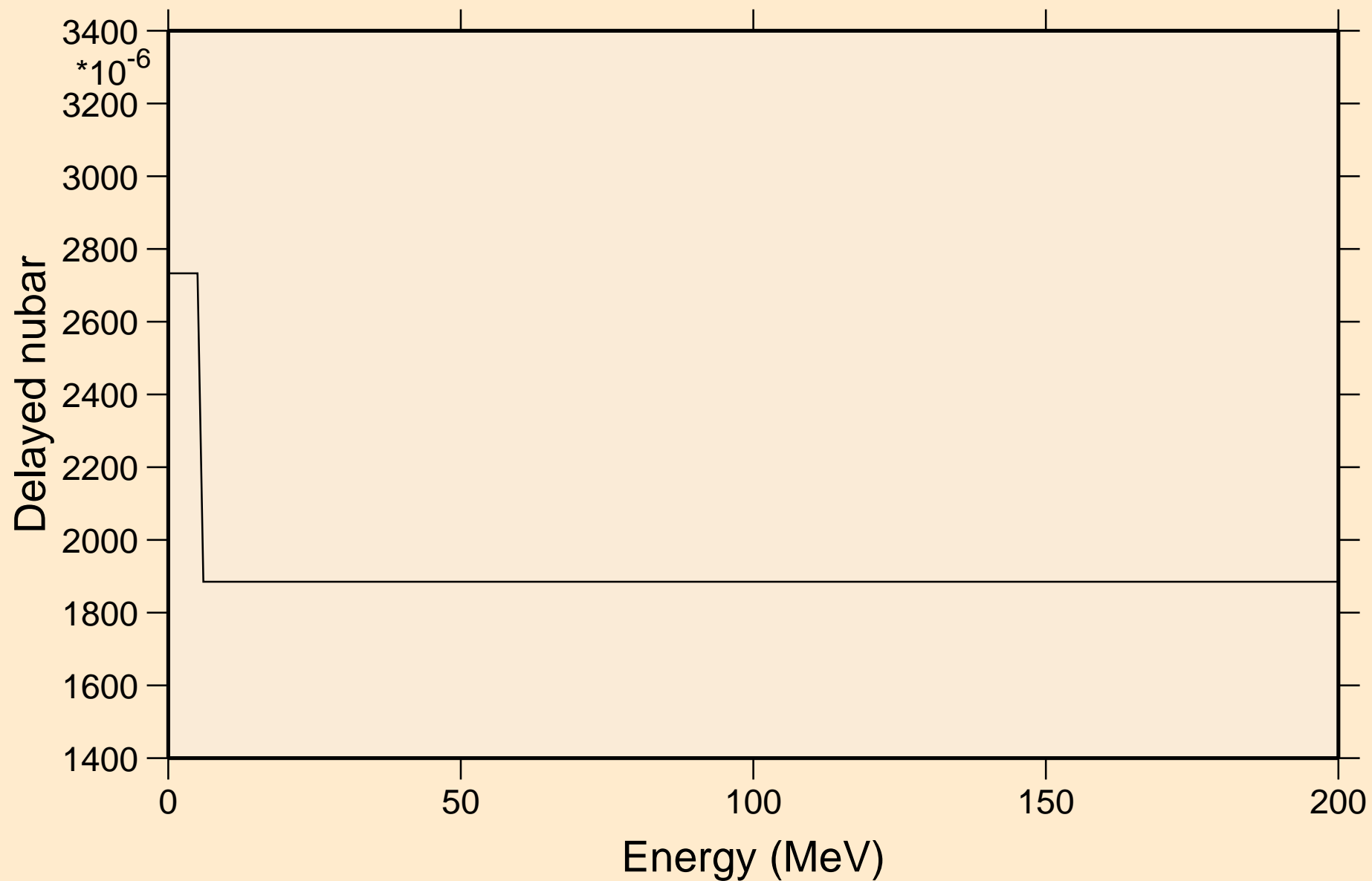


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Neutron emission for (n,n\*c)



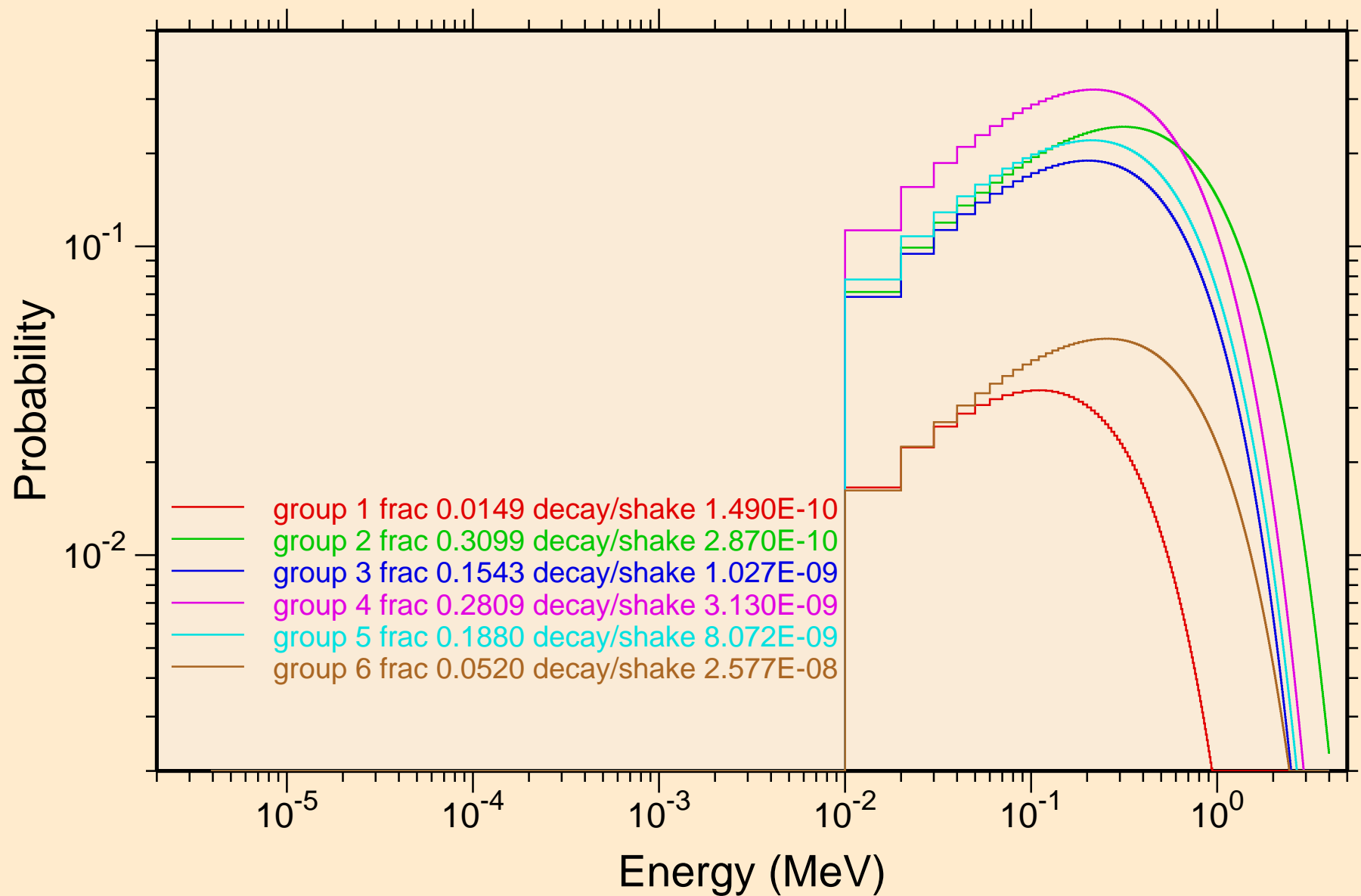
# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

Delayed nubar

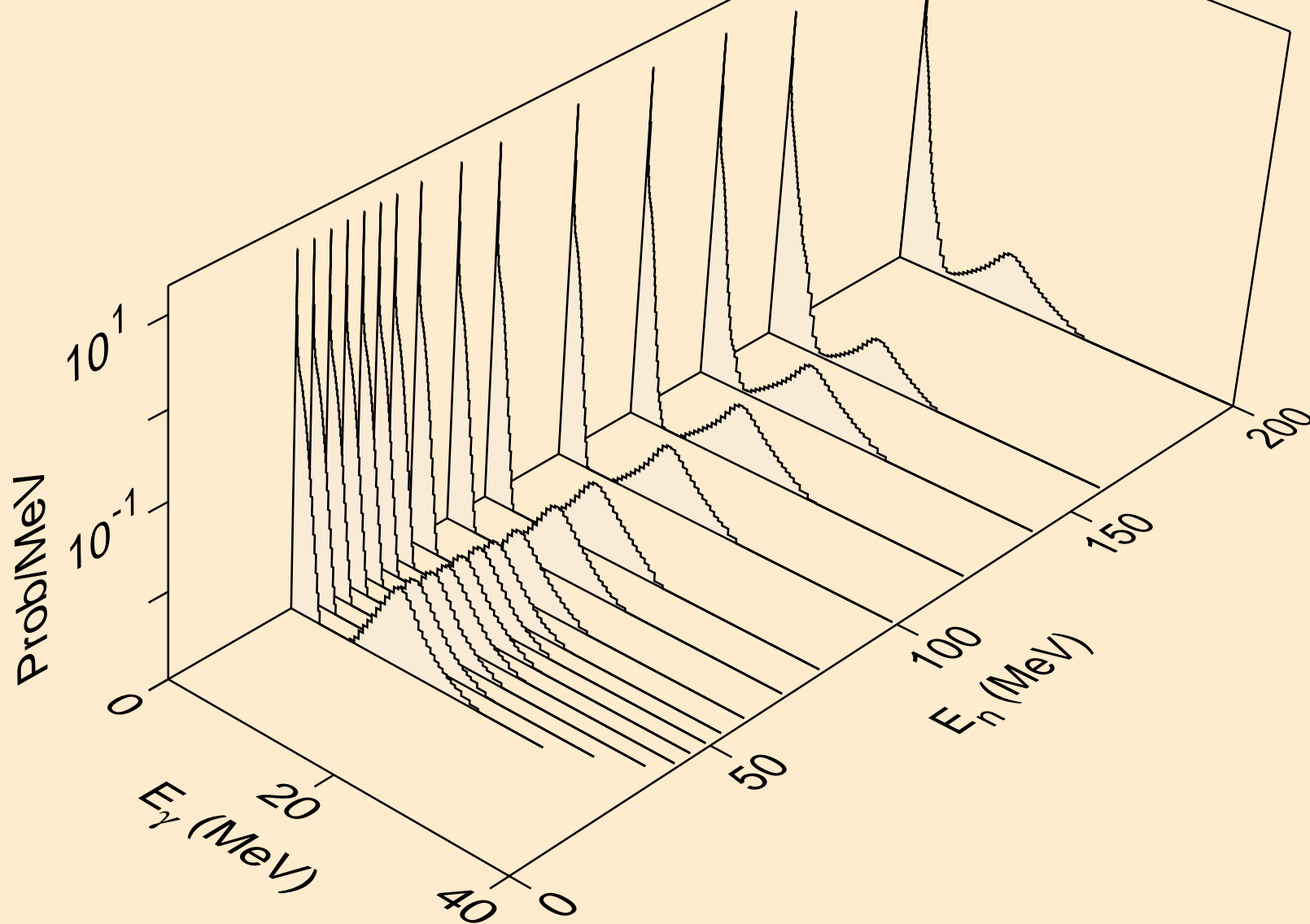


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

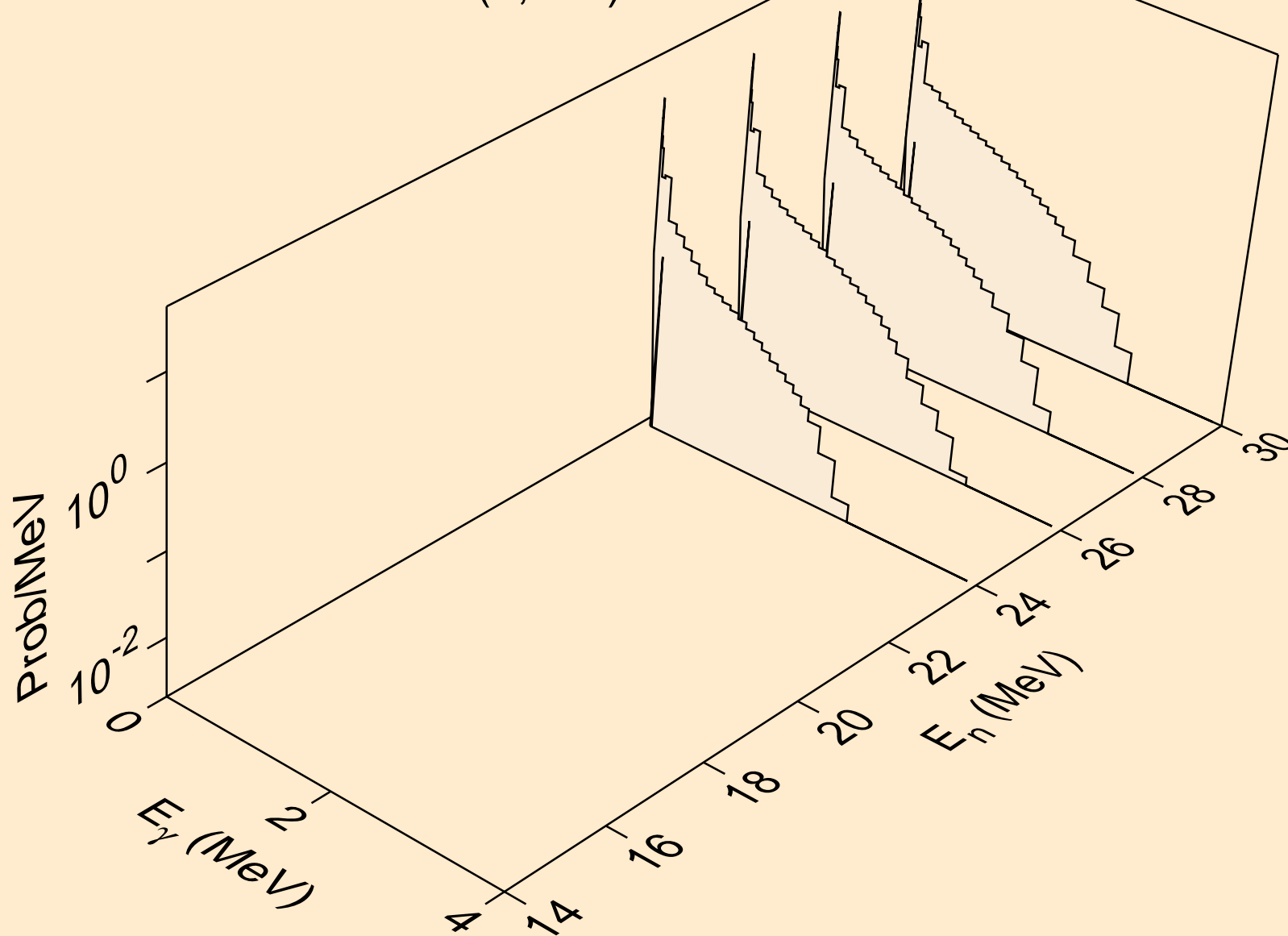
## Delayed neutron spectra



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,x)

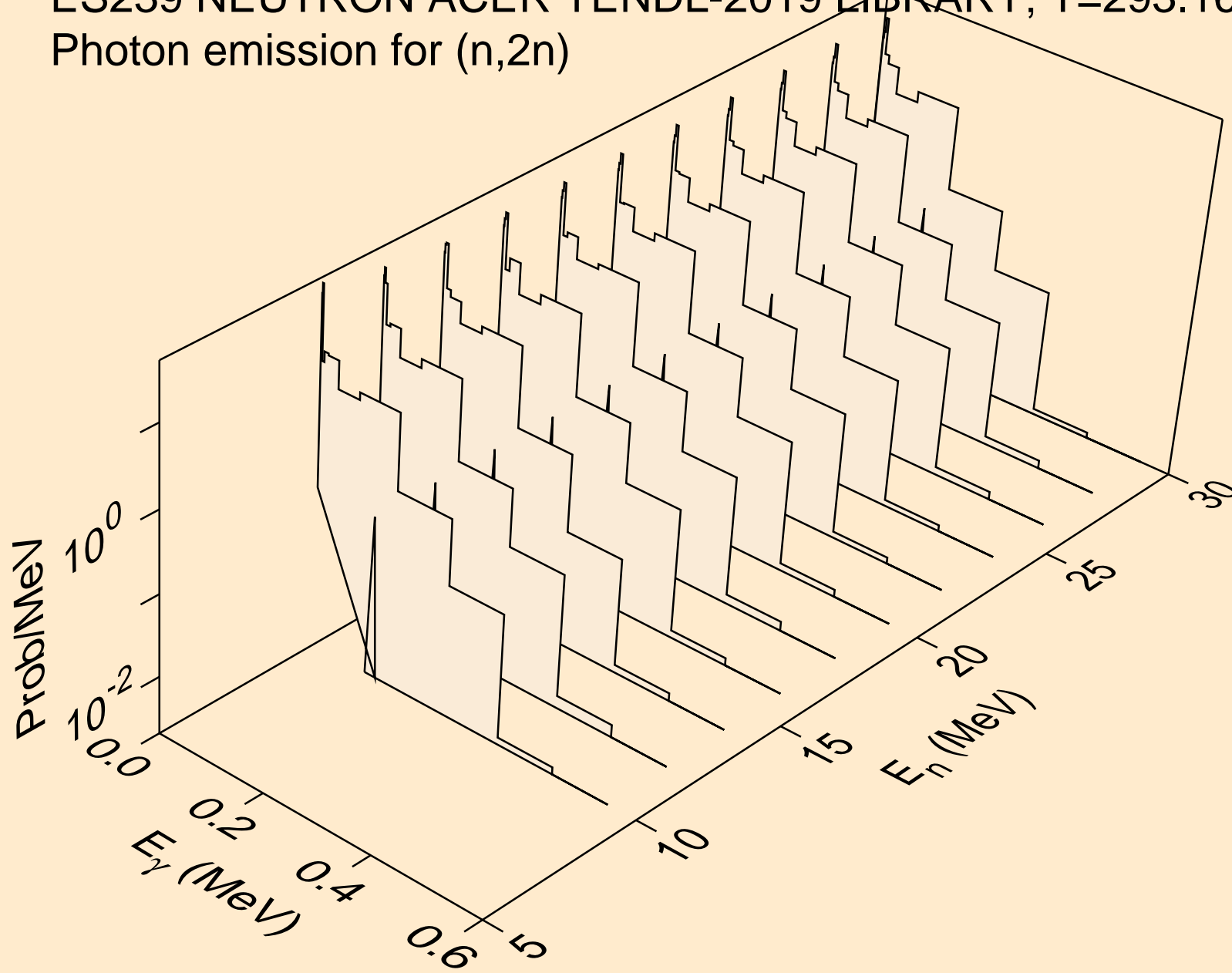


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2nd)

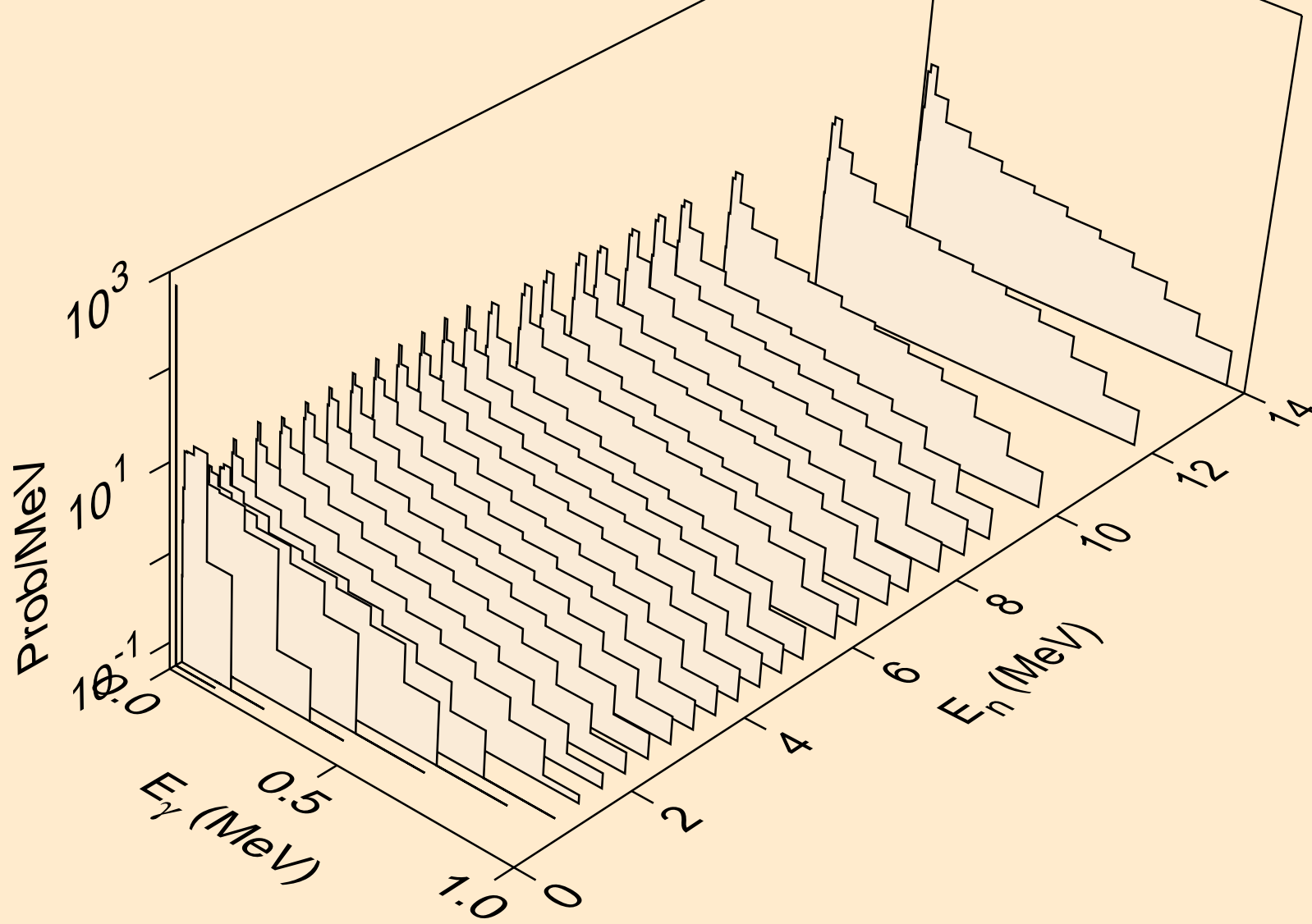




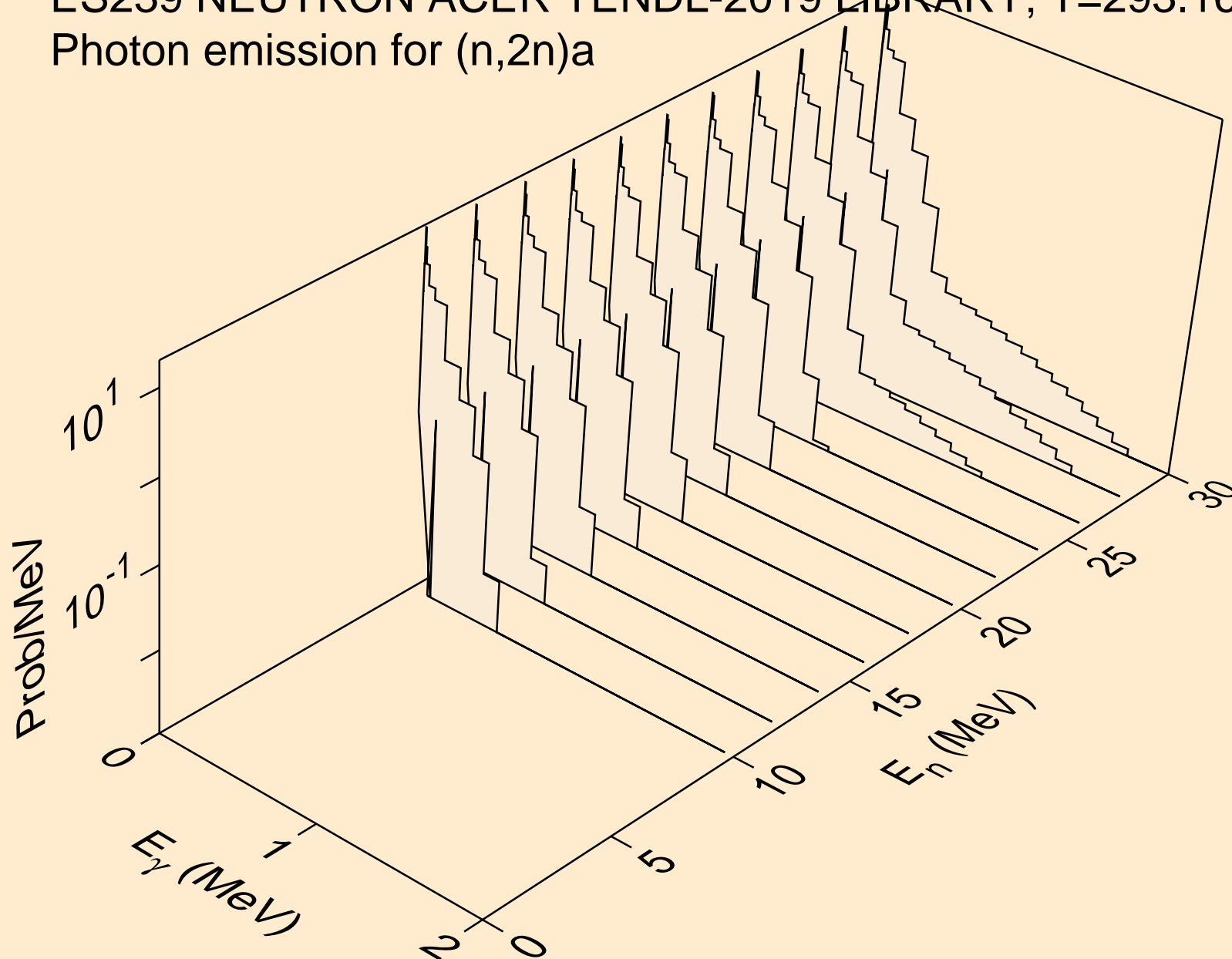
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n)



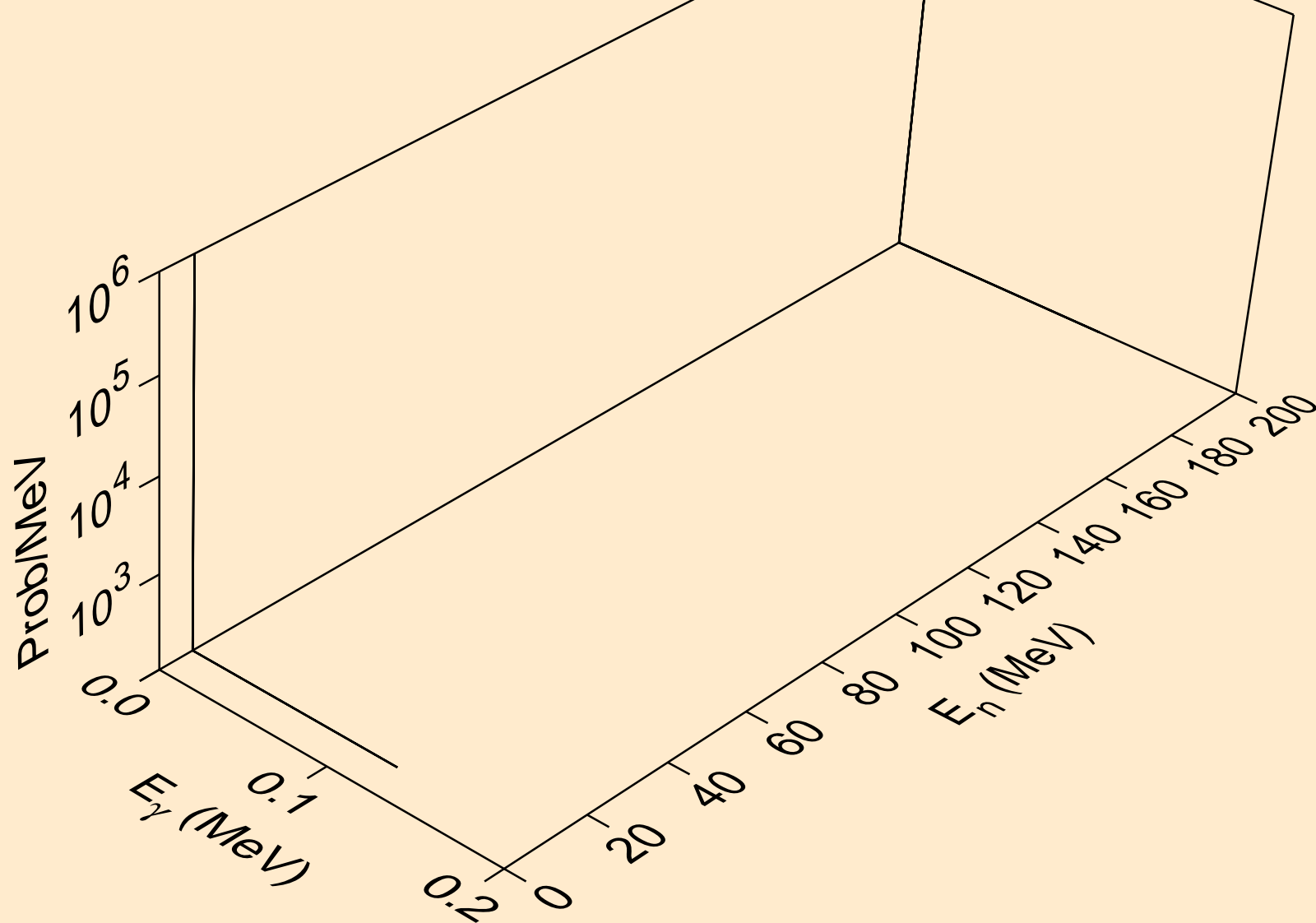
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)a



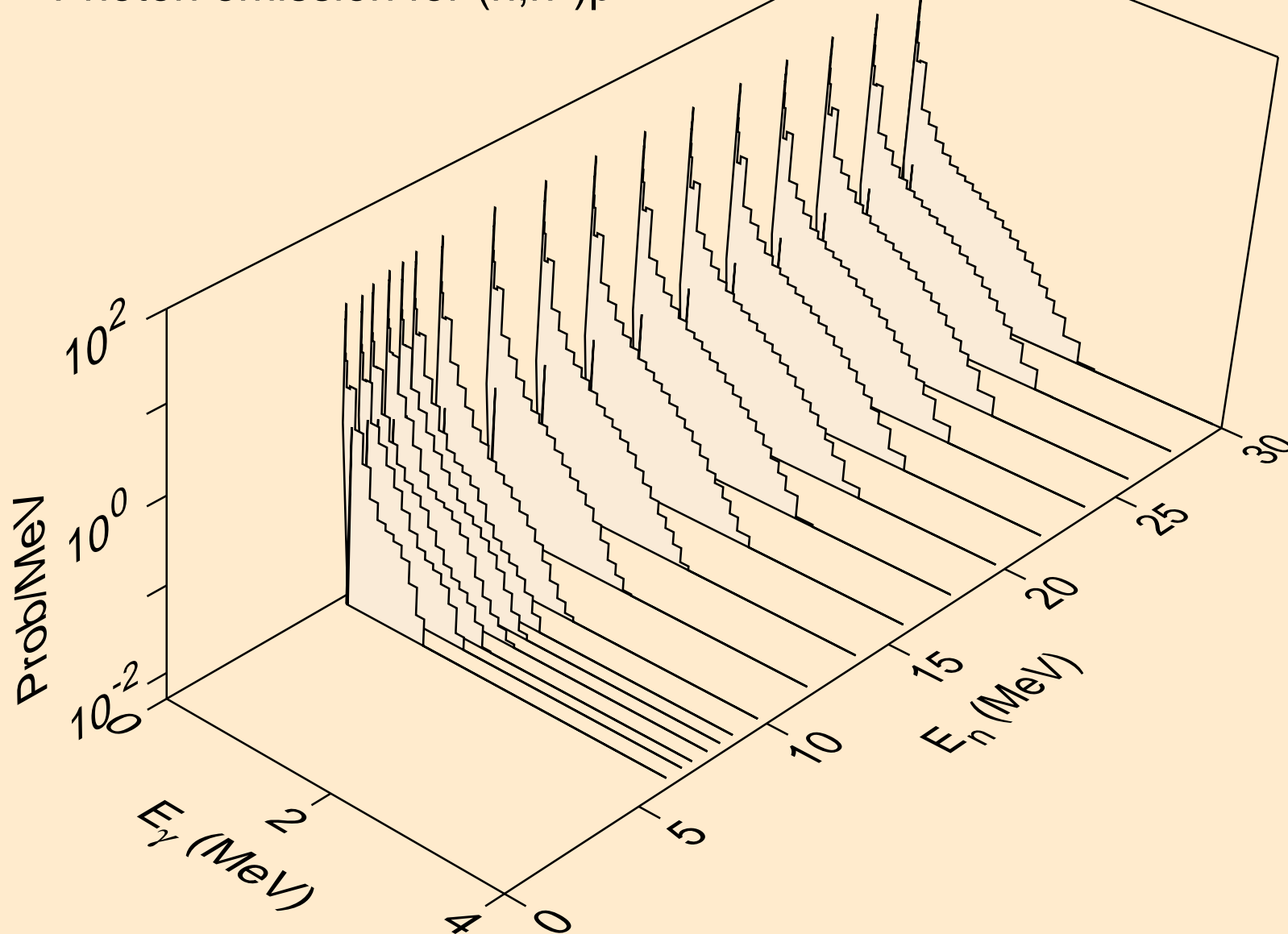
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2n) $\alpha$



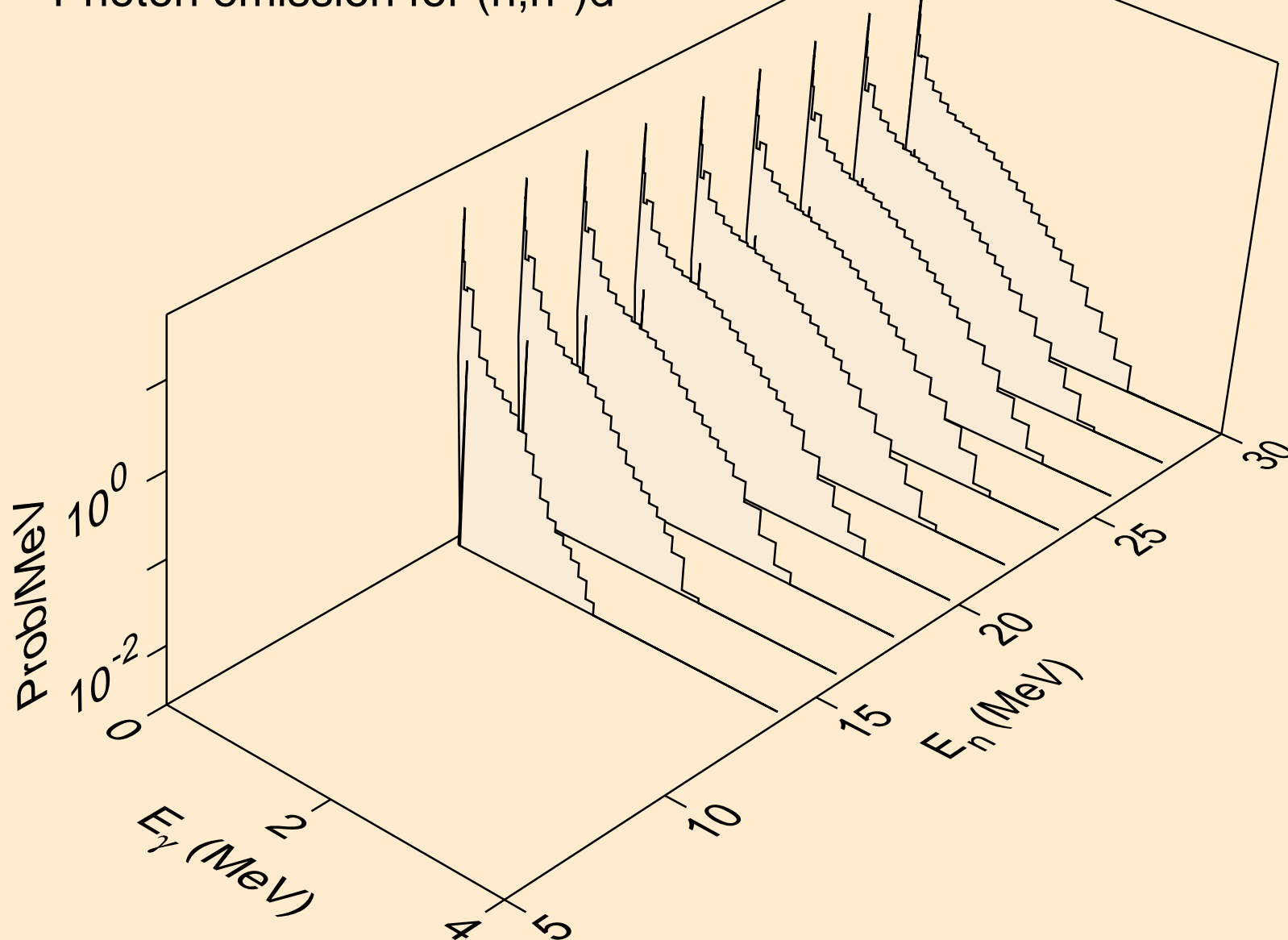
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3n) $\alpha$



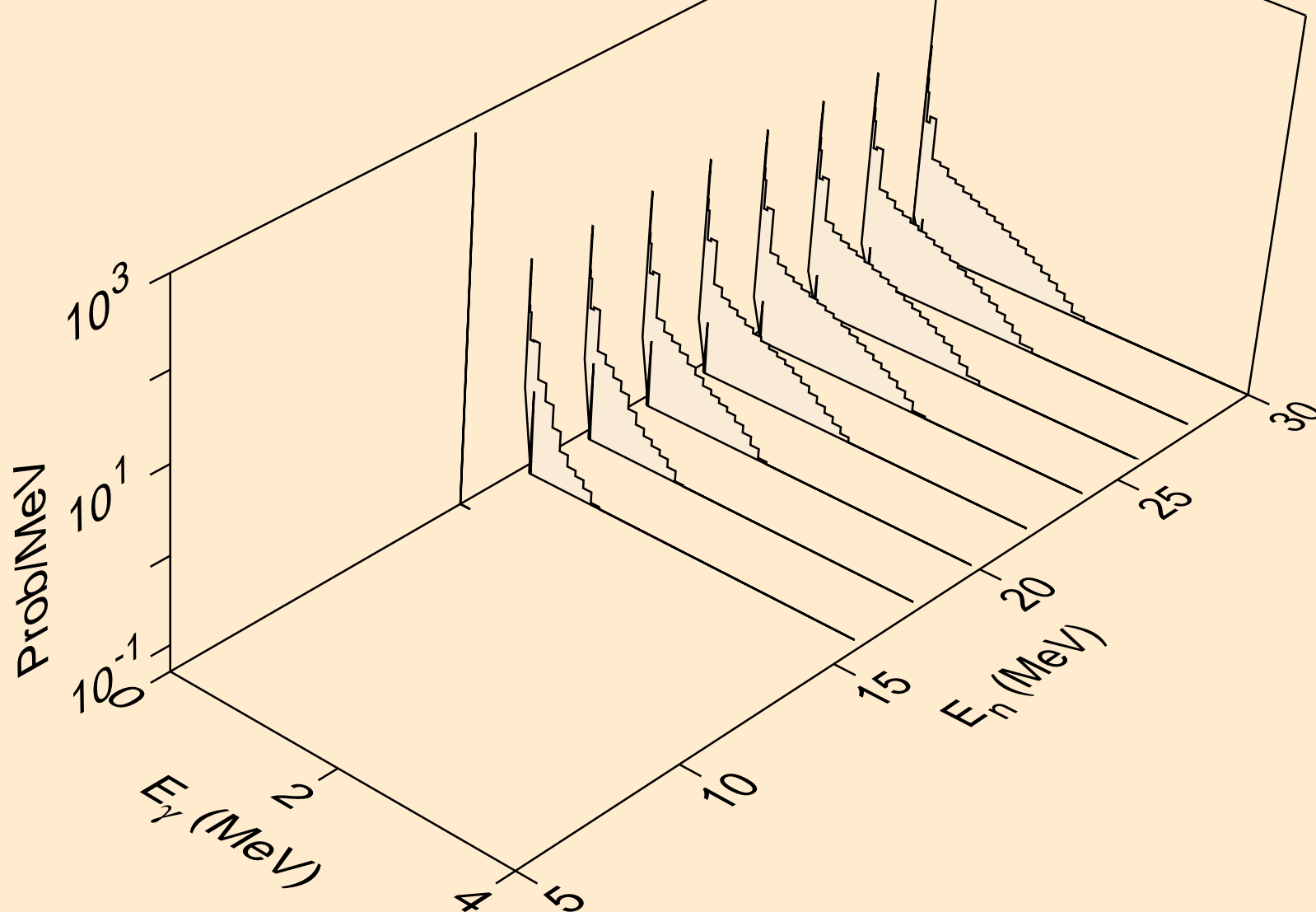
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)p



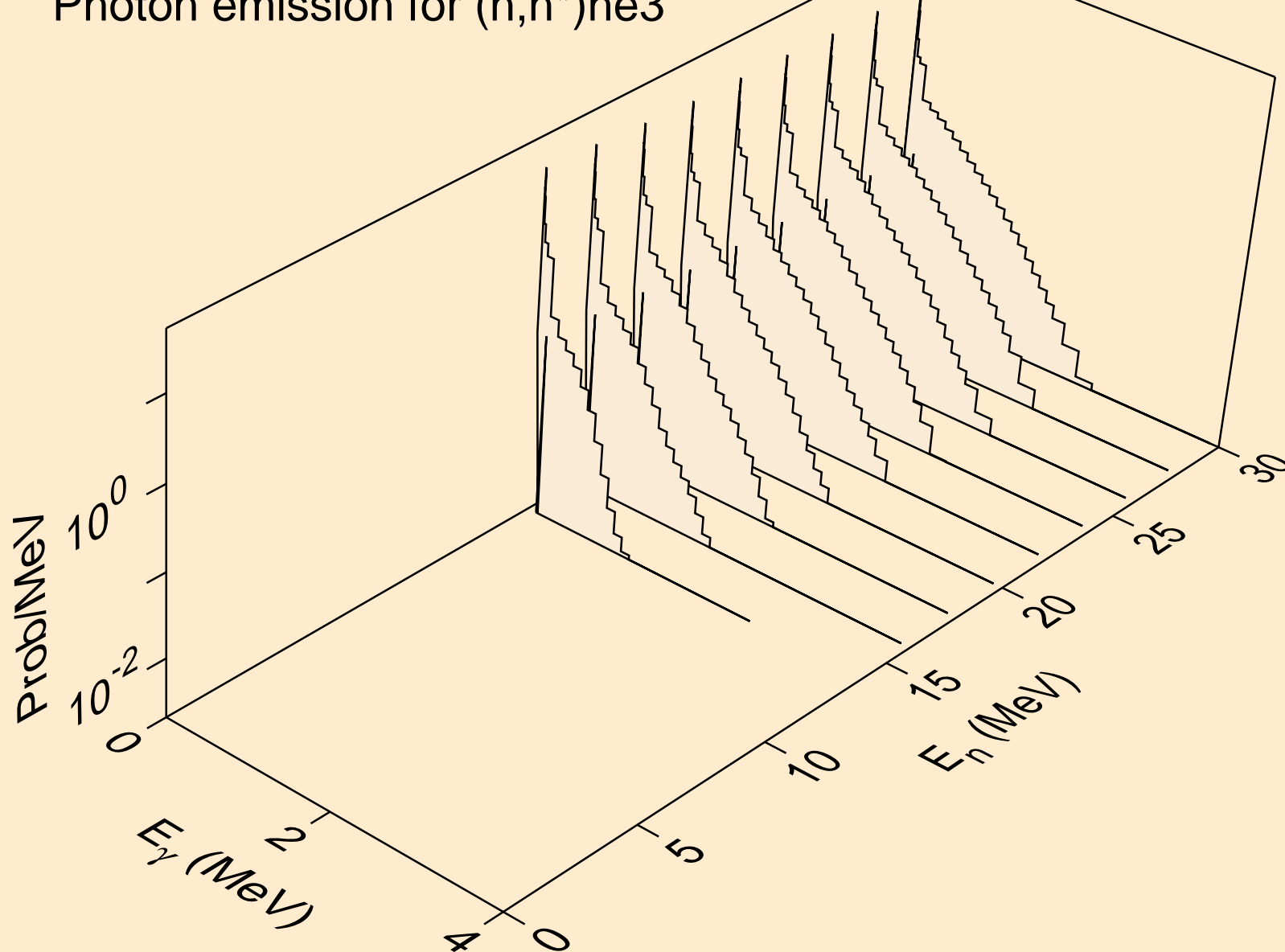
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)d



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)t

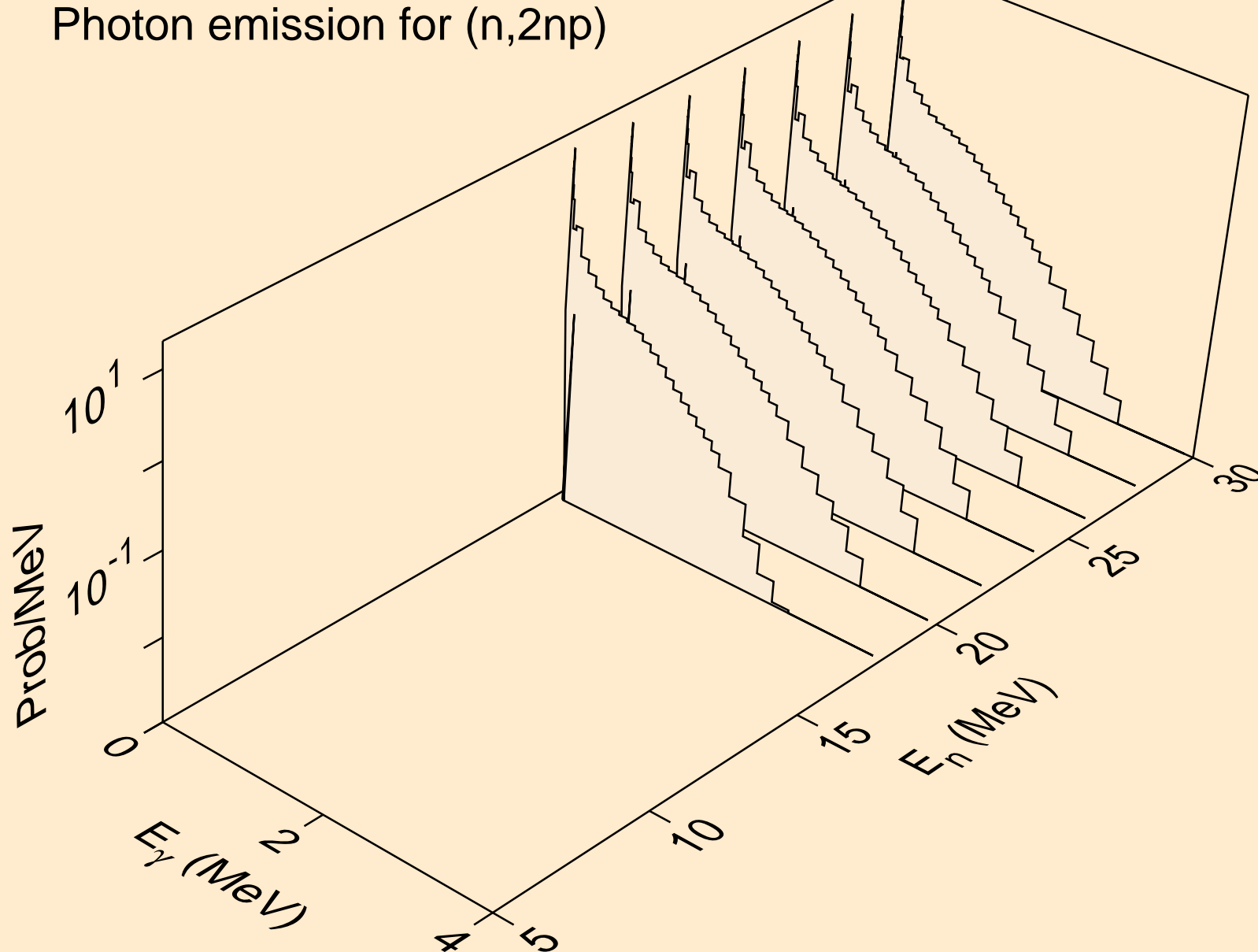


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*)he3

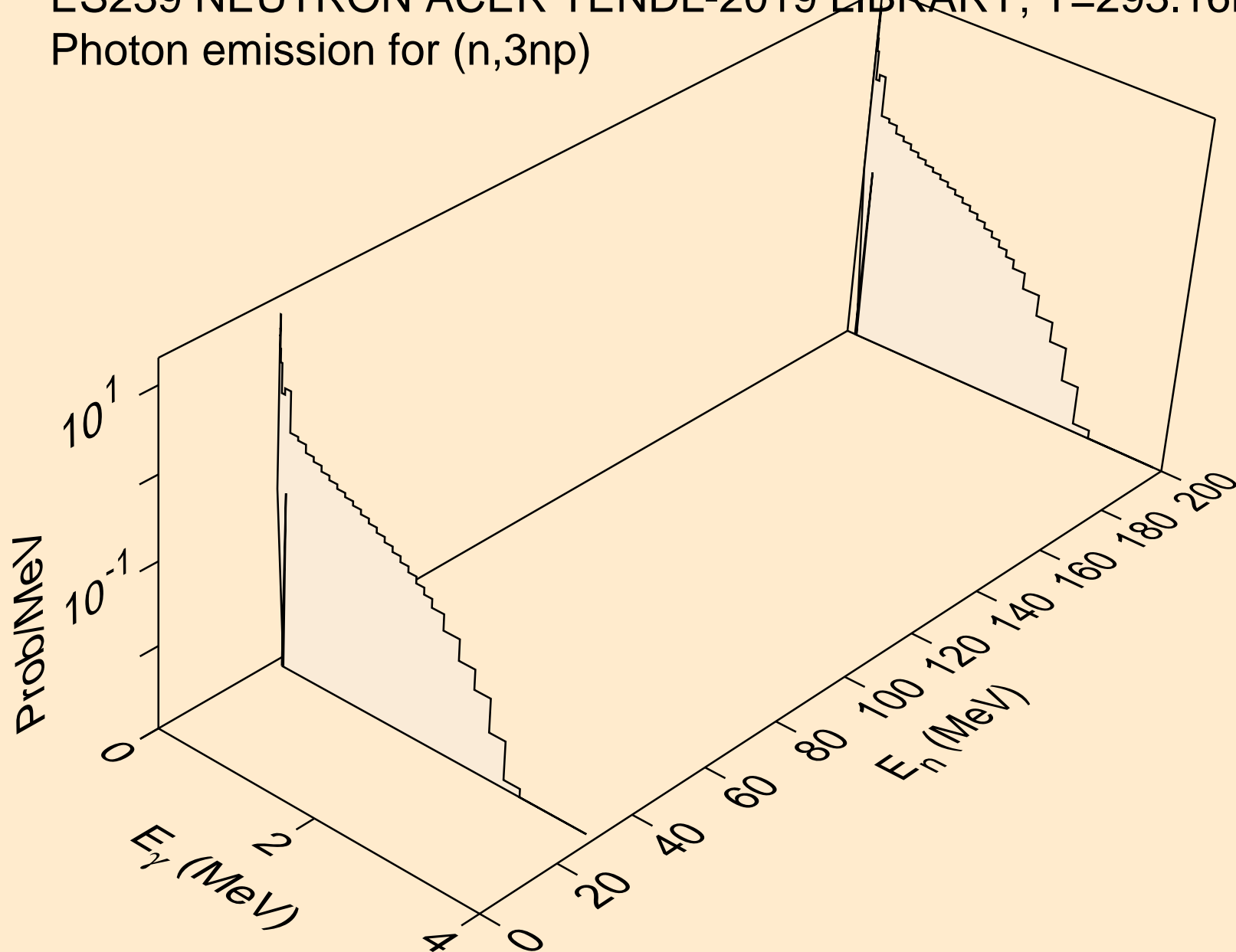




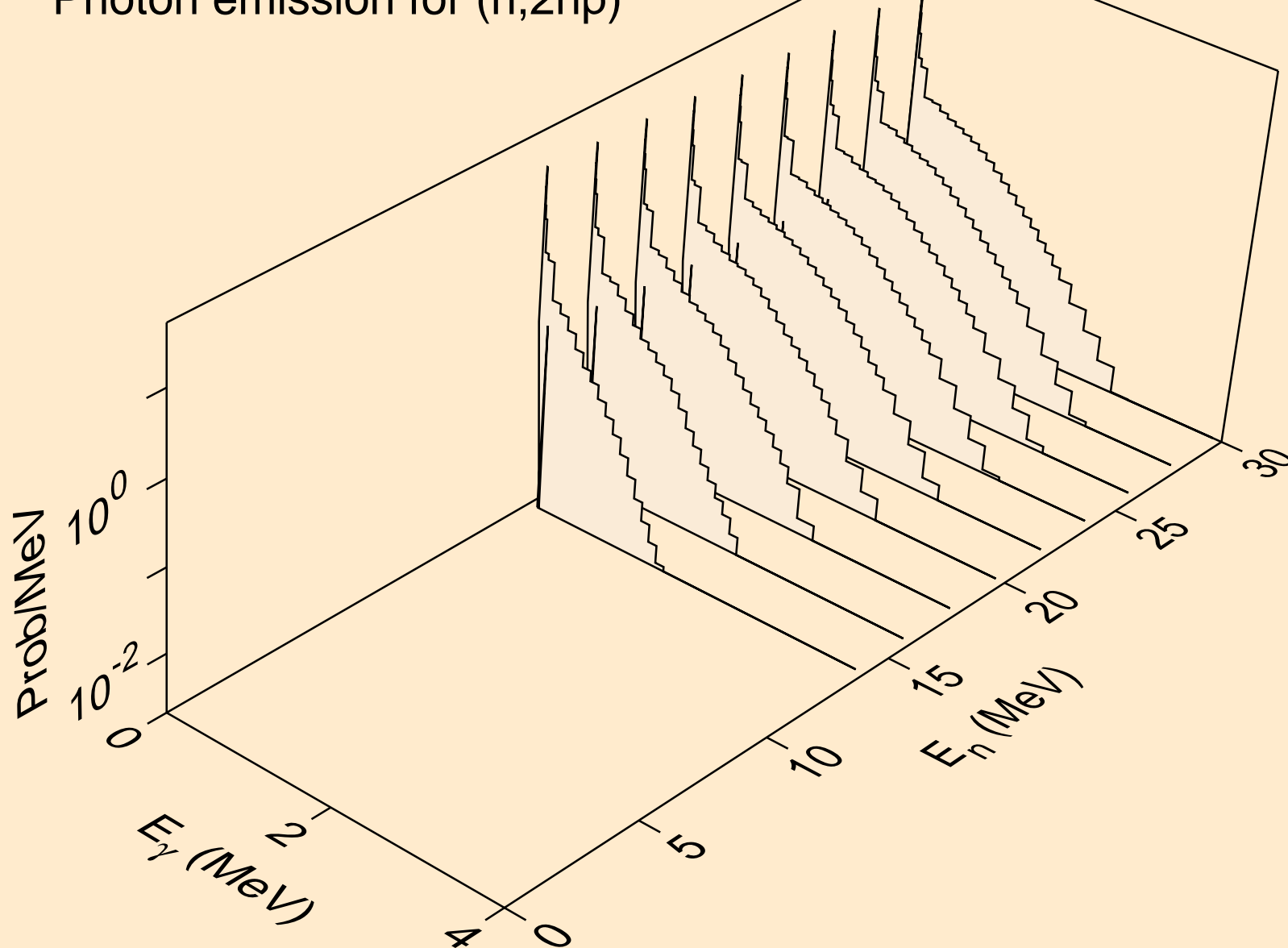
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



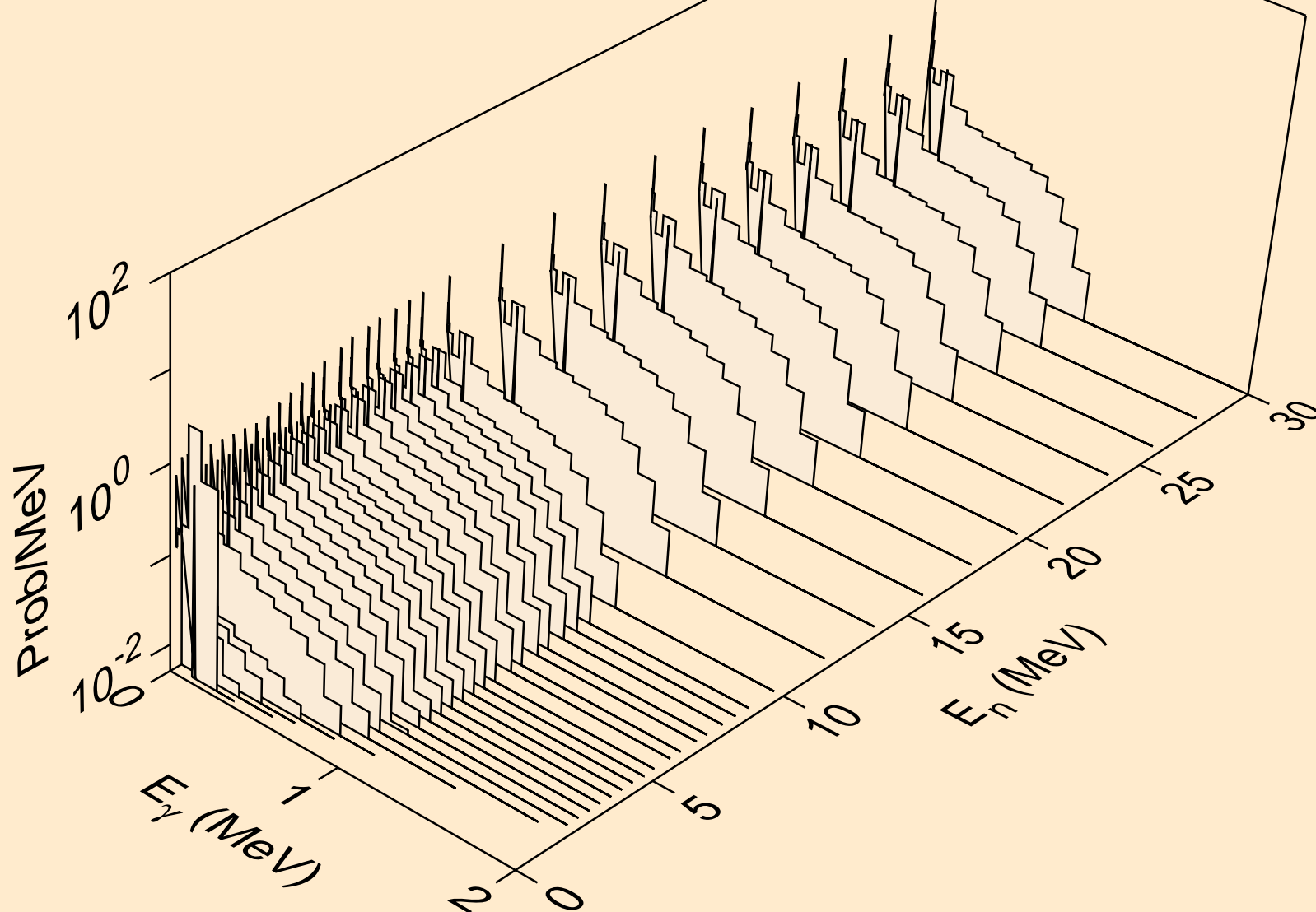
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,3np)



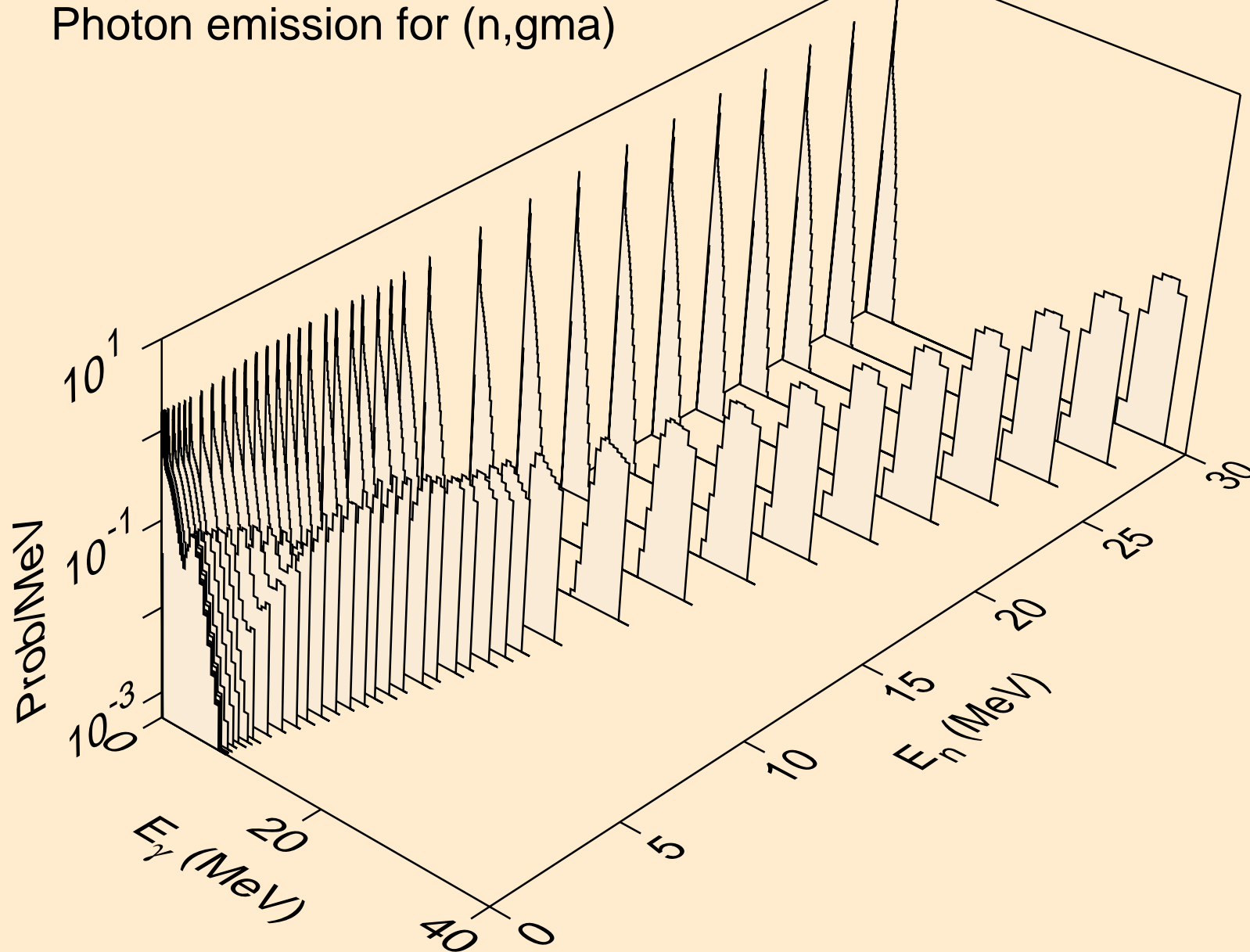
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2np)



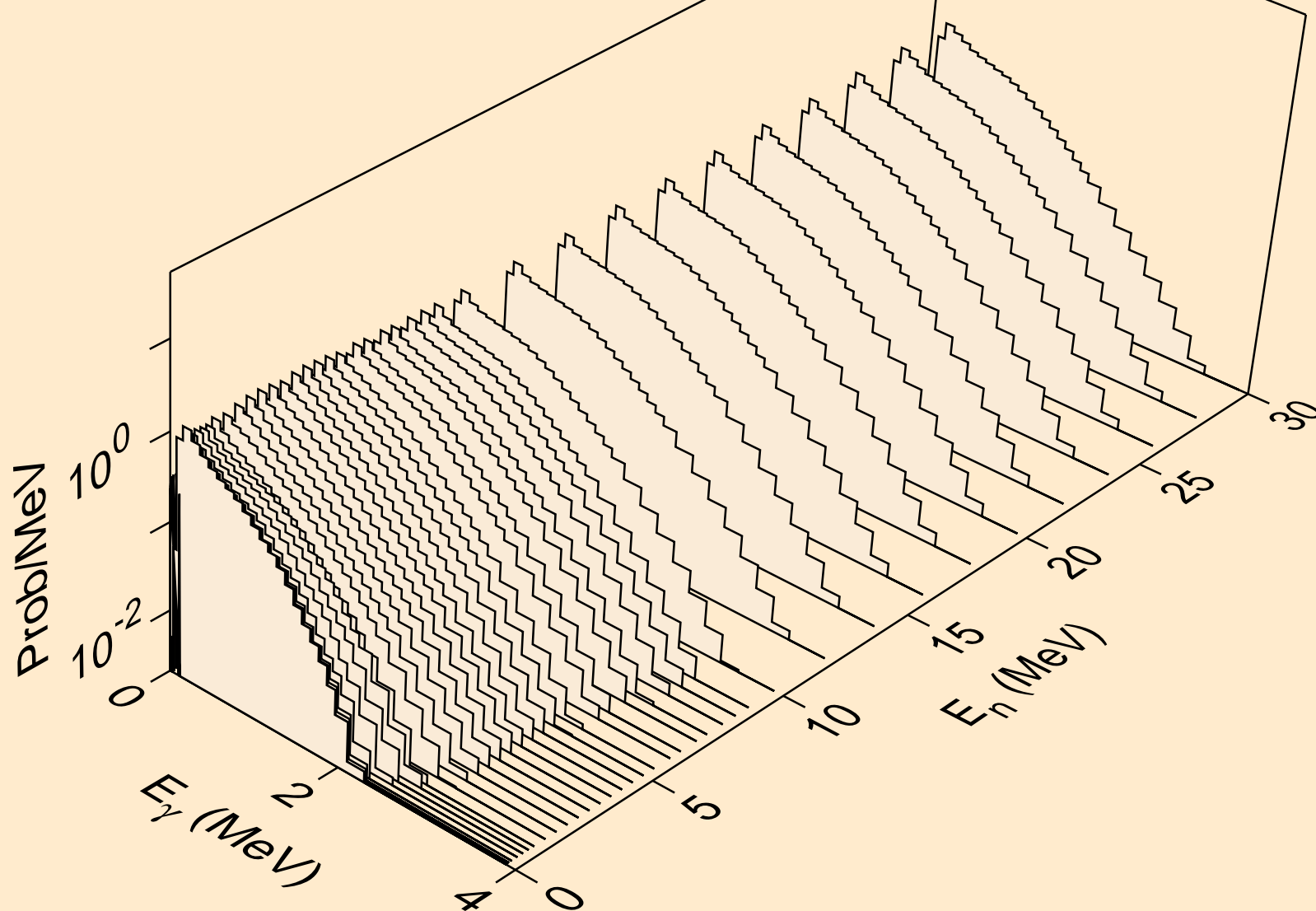
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,n\*c)



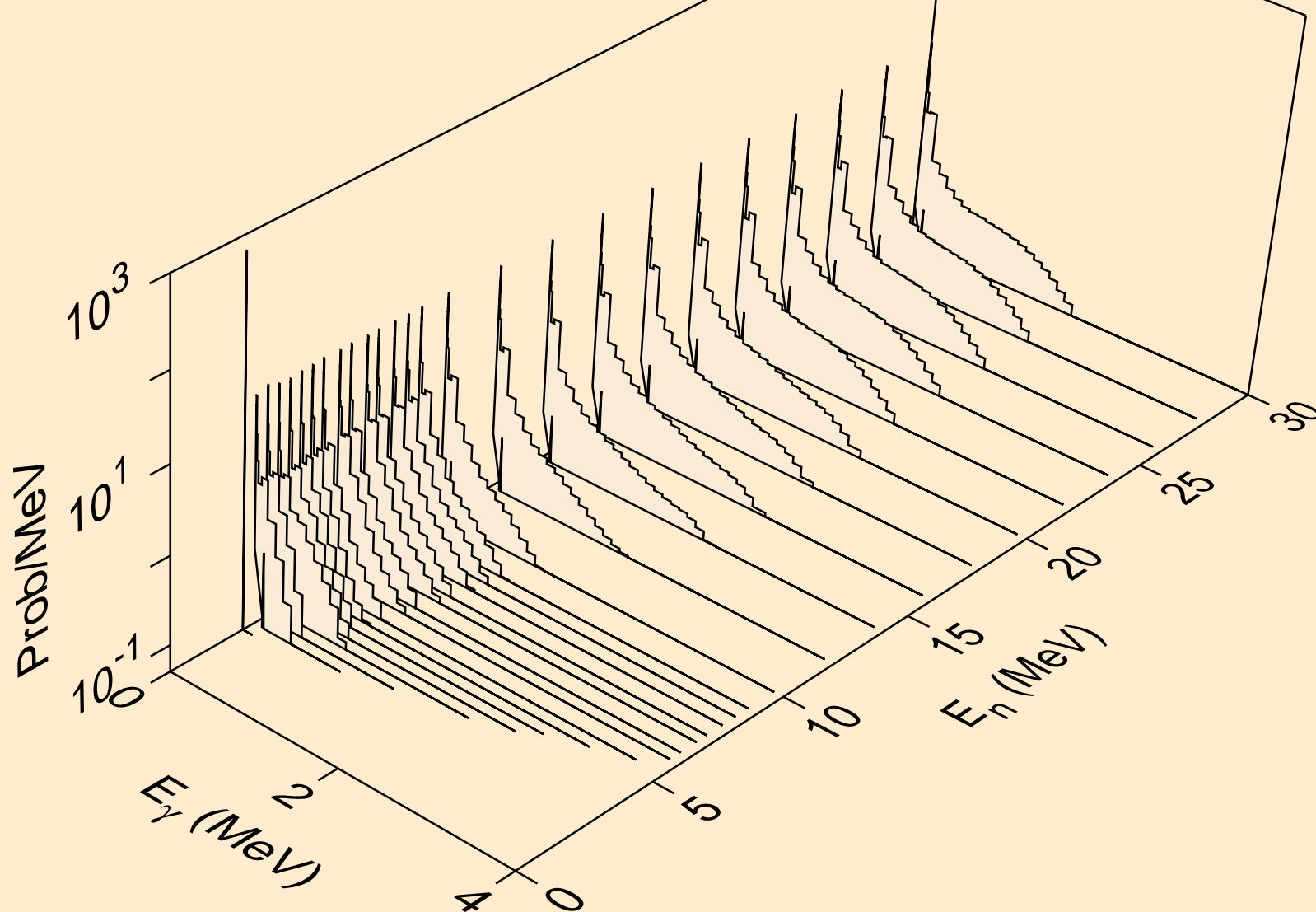
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,gma)



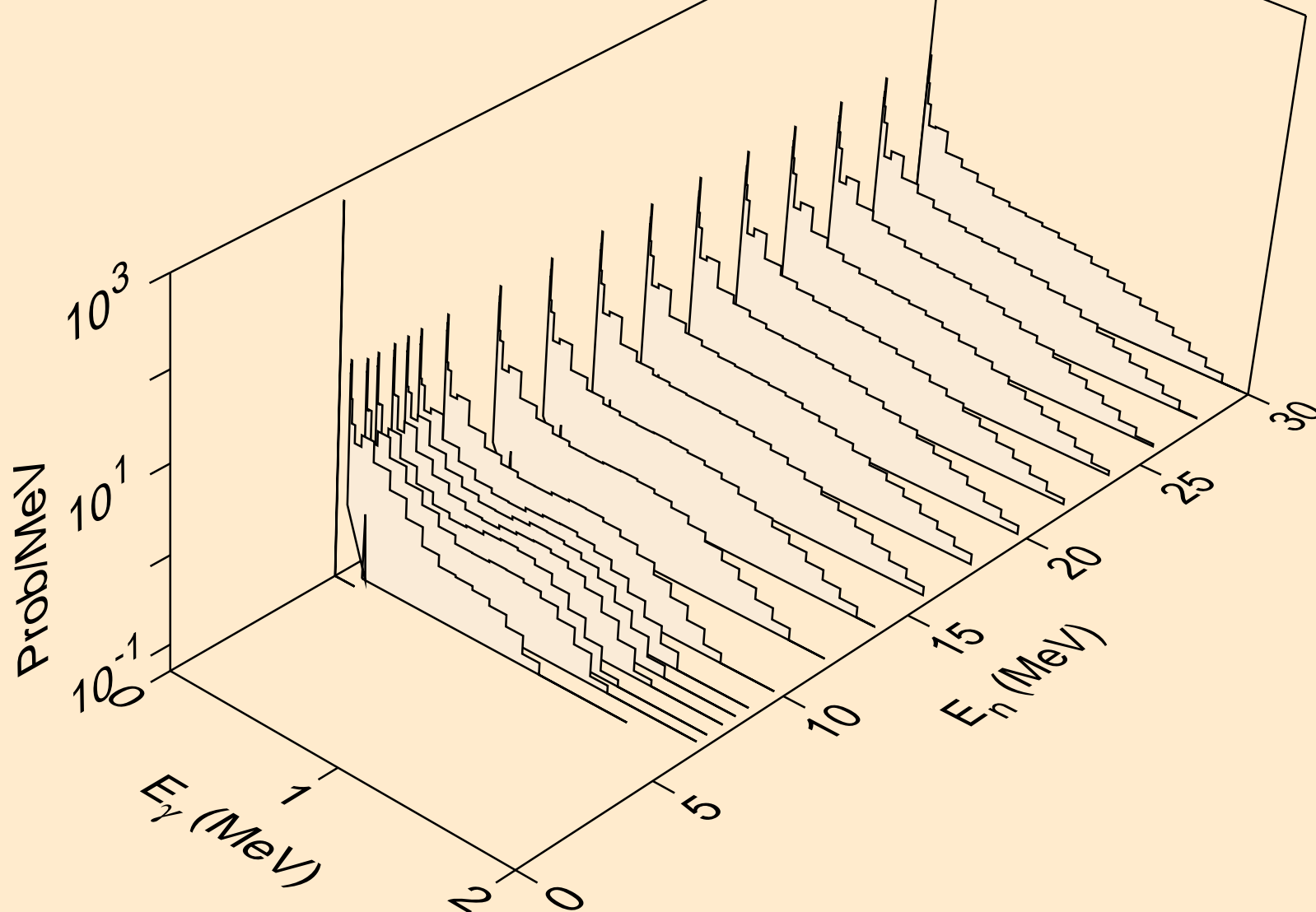
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,d)

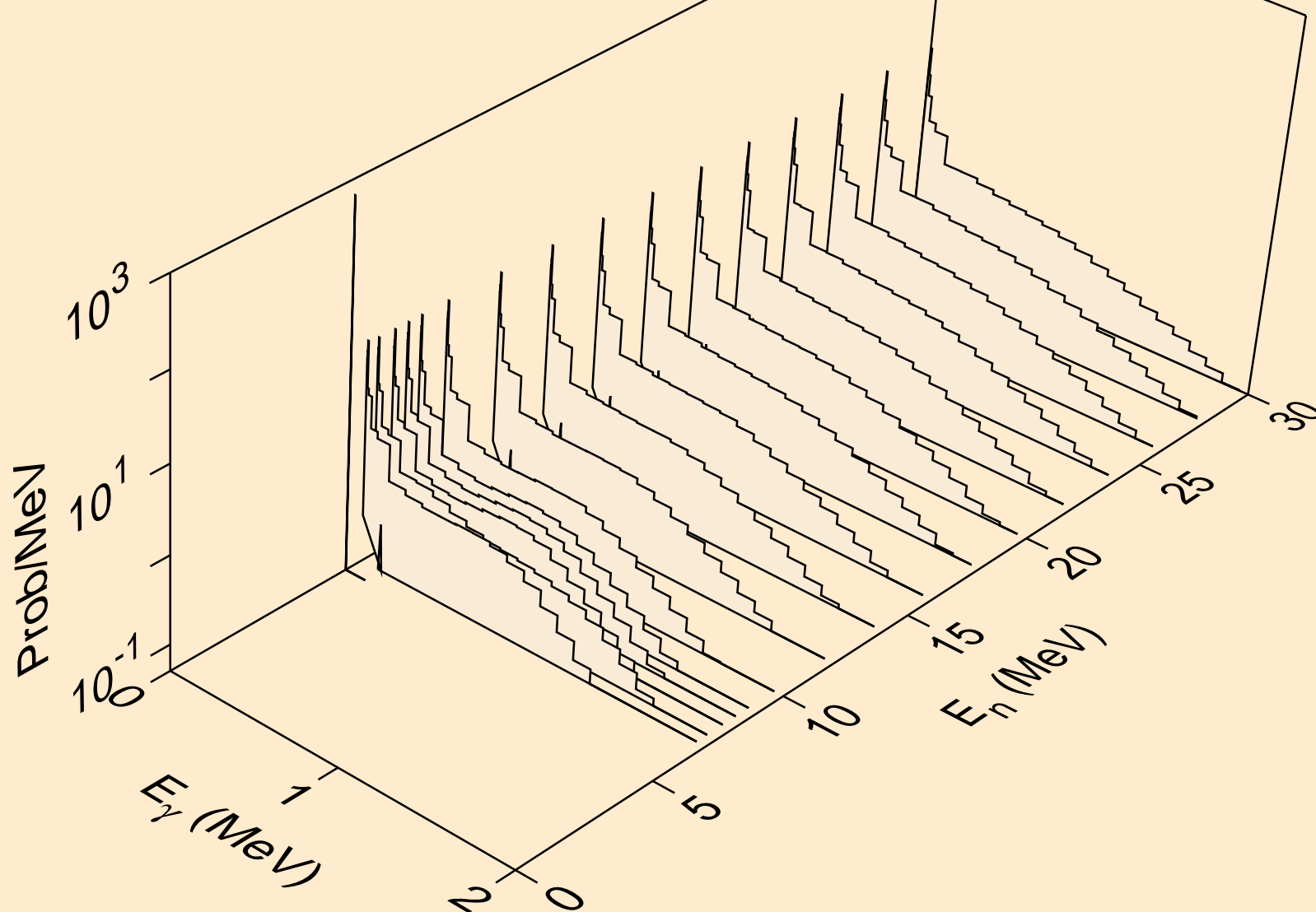


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,t)

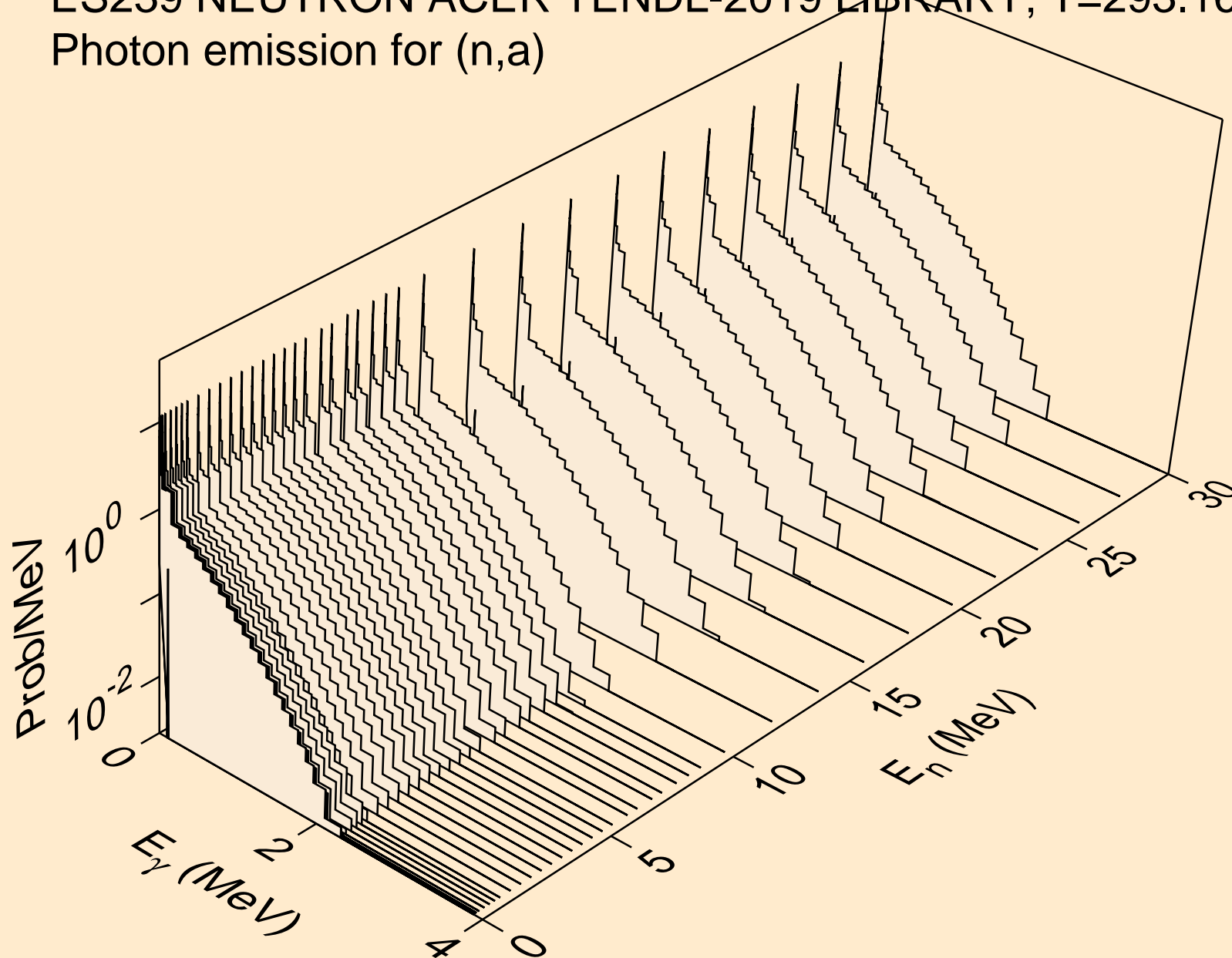




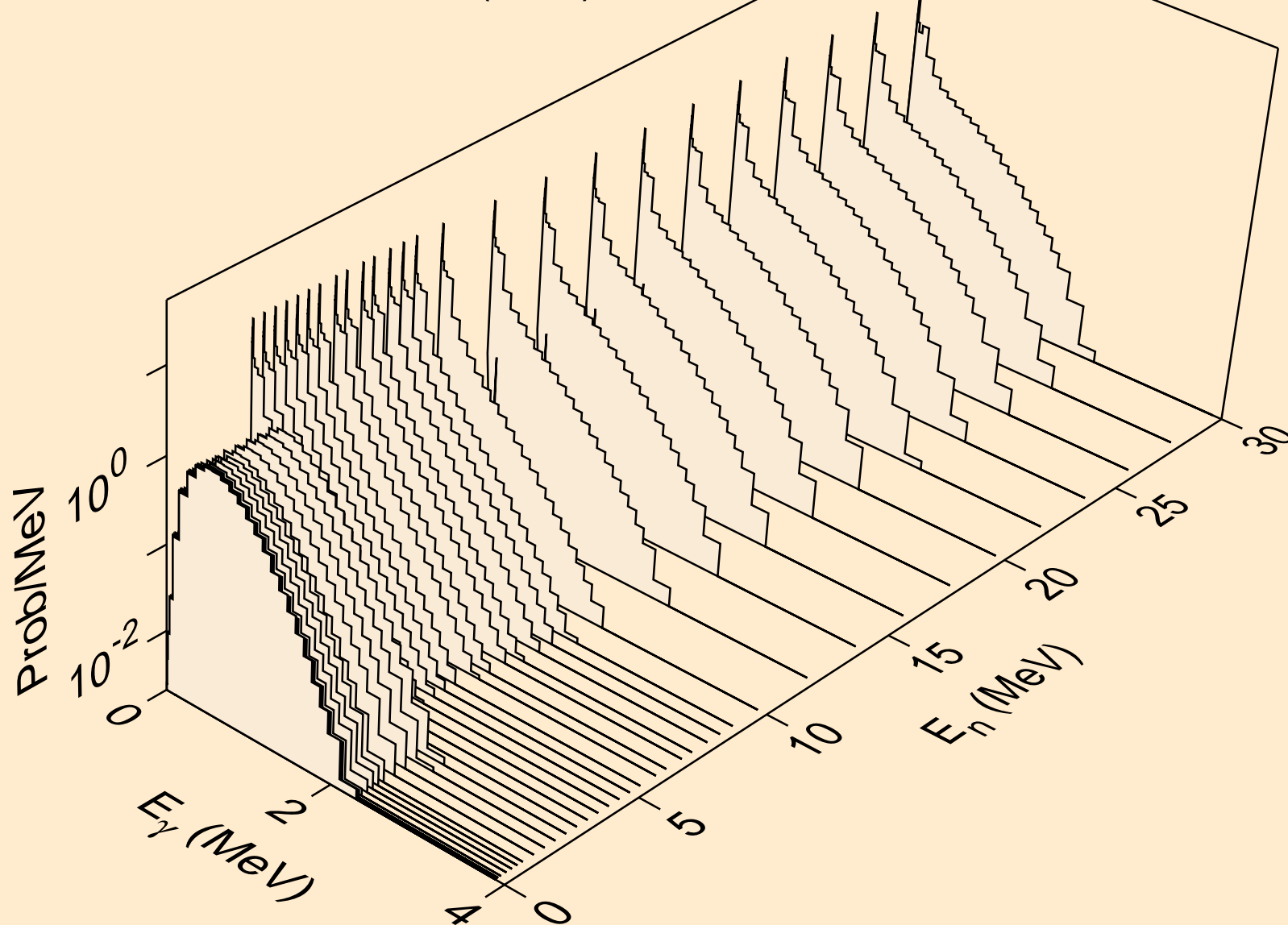
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,he3)



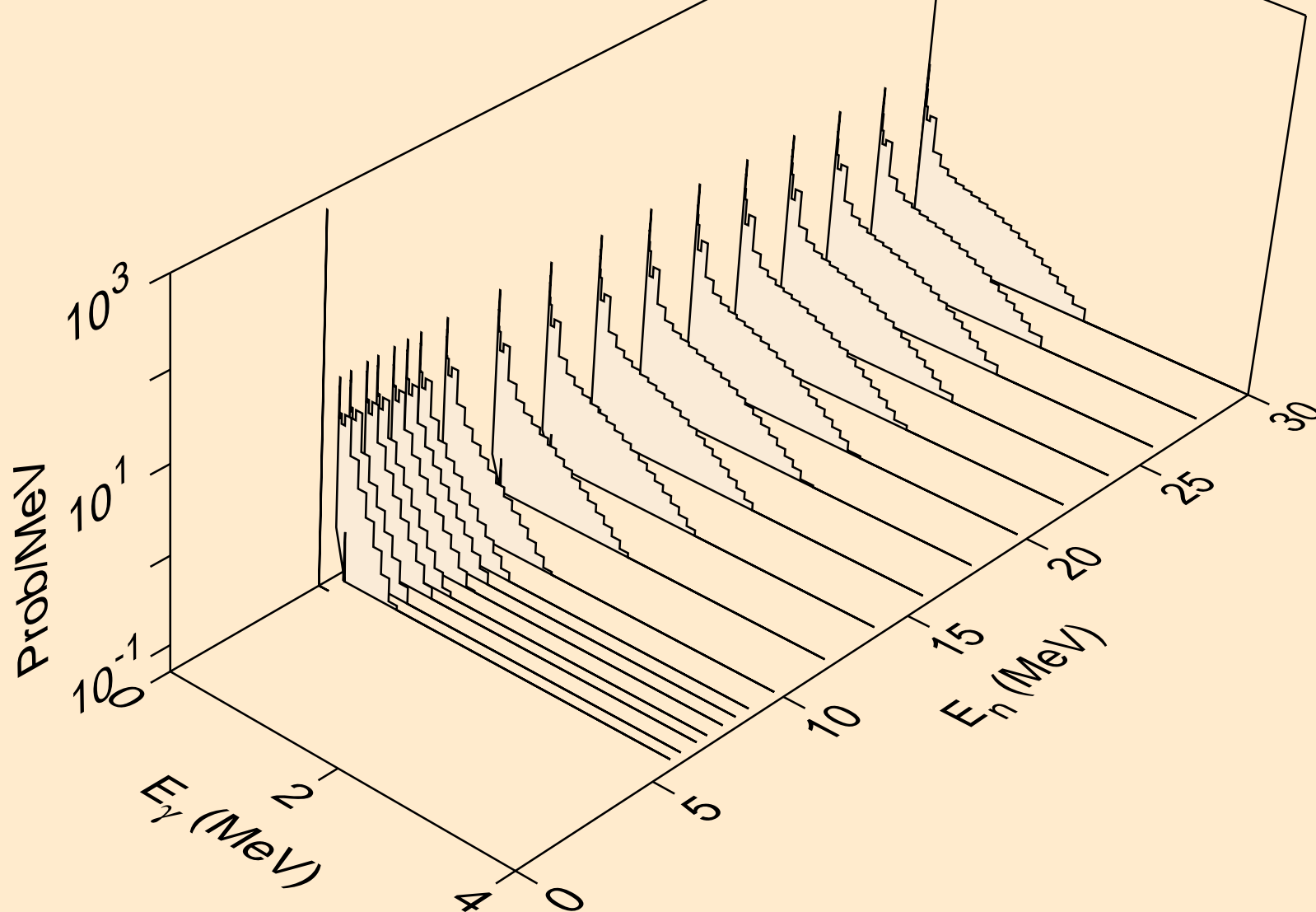
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,a)



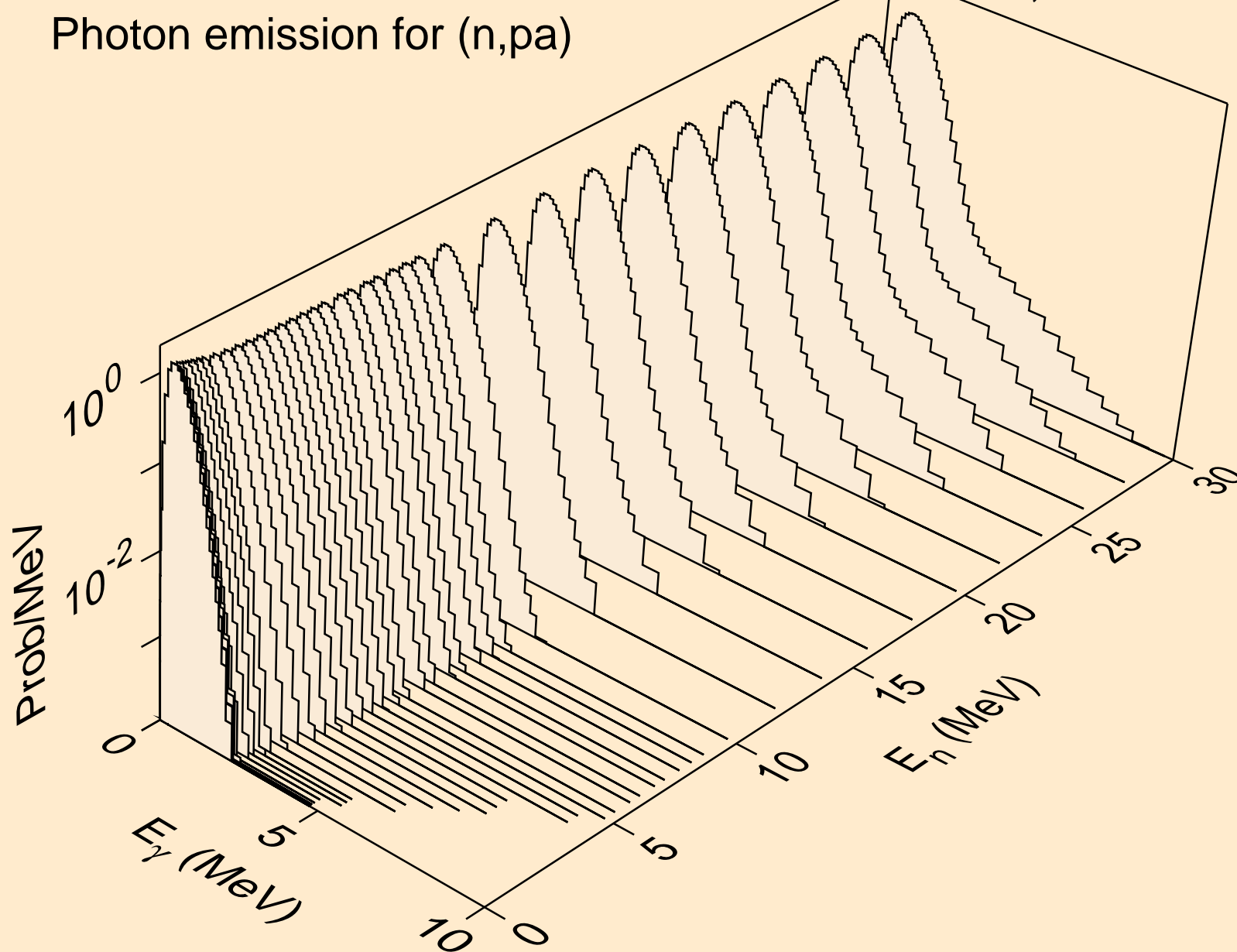
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2a)



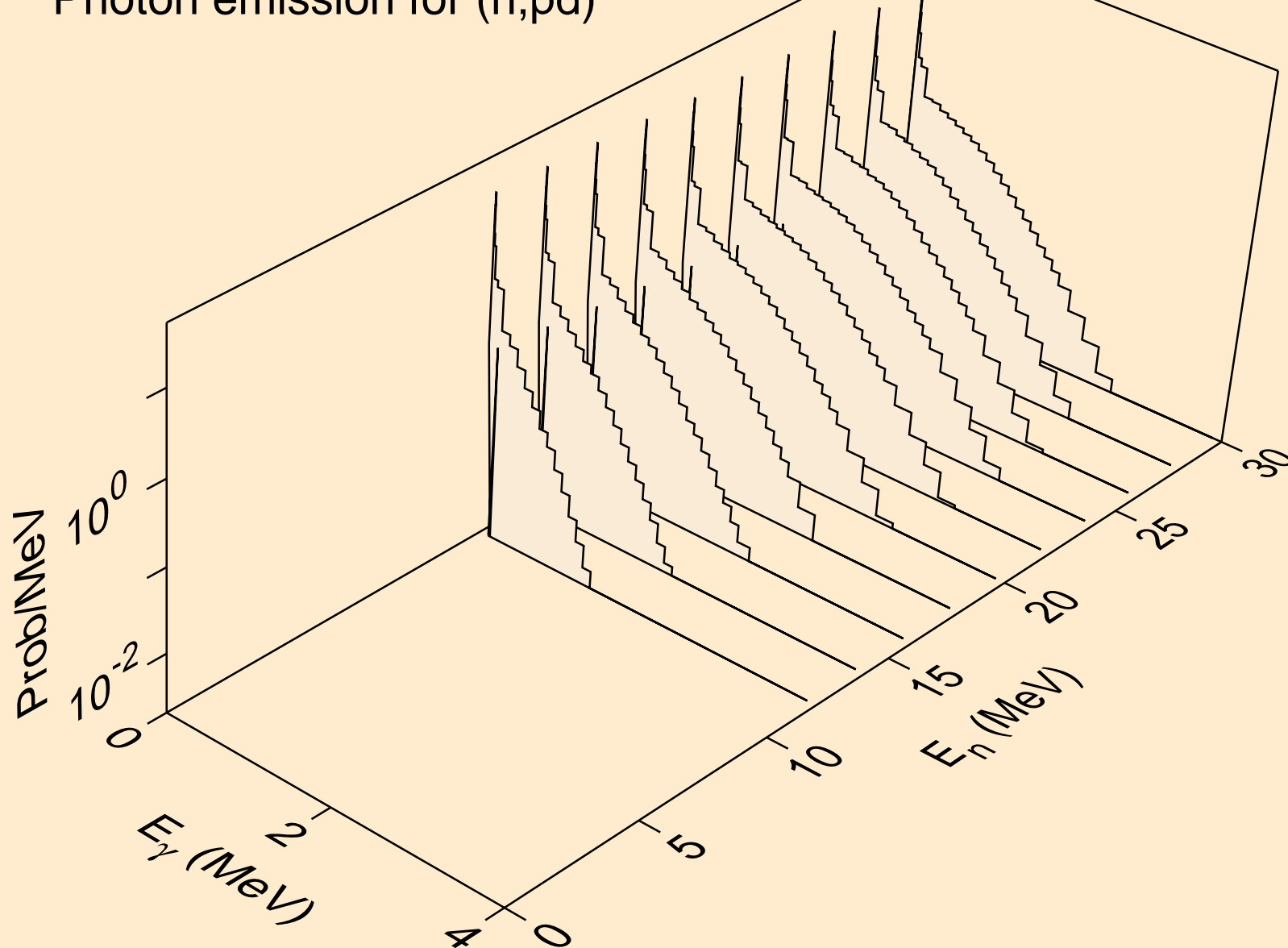
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,2p)



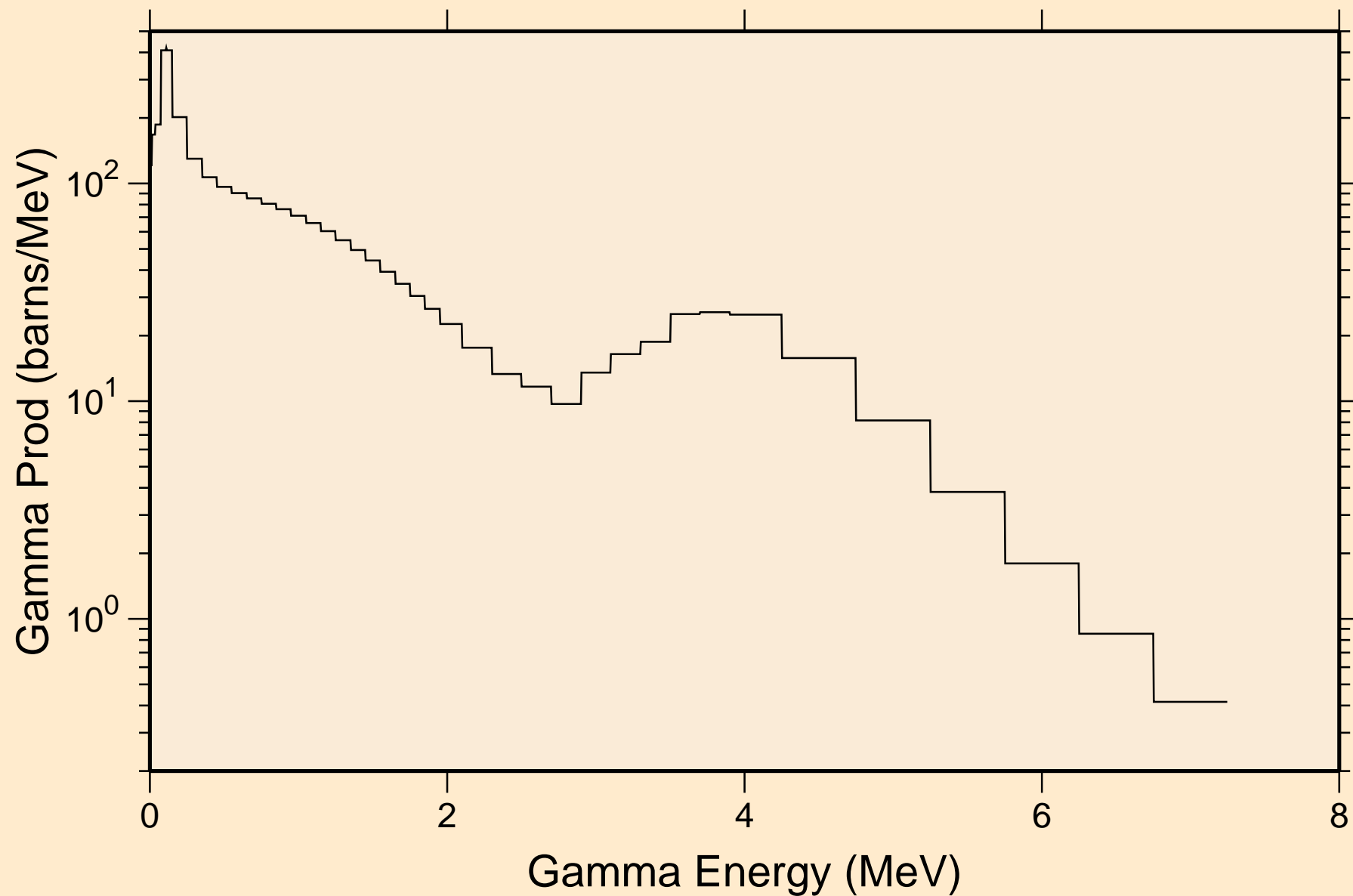
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,p $\alpha$ )



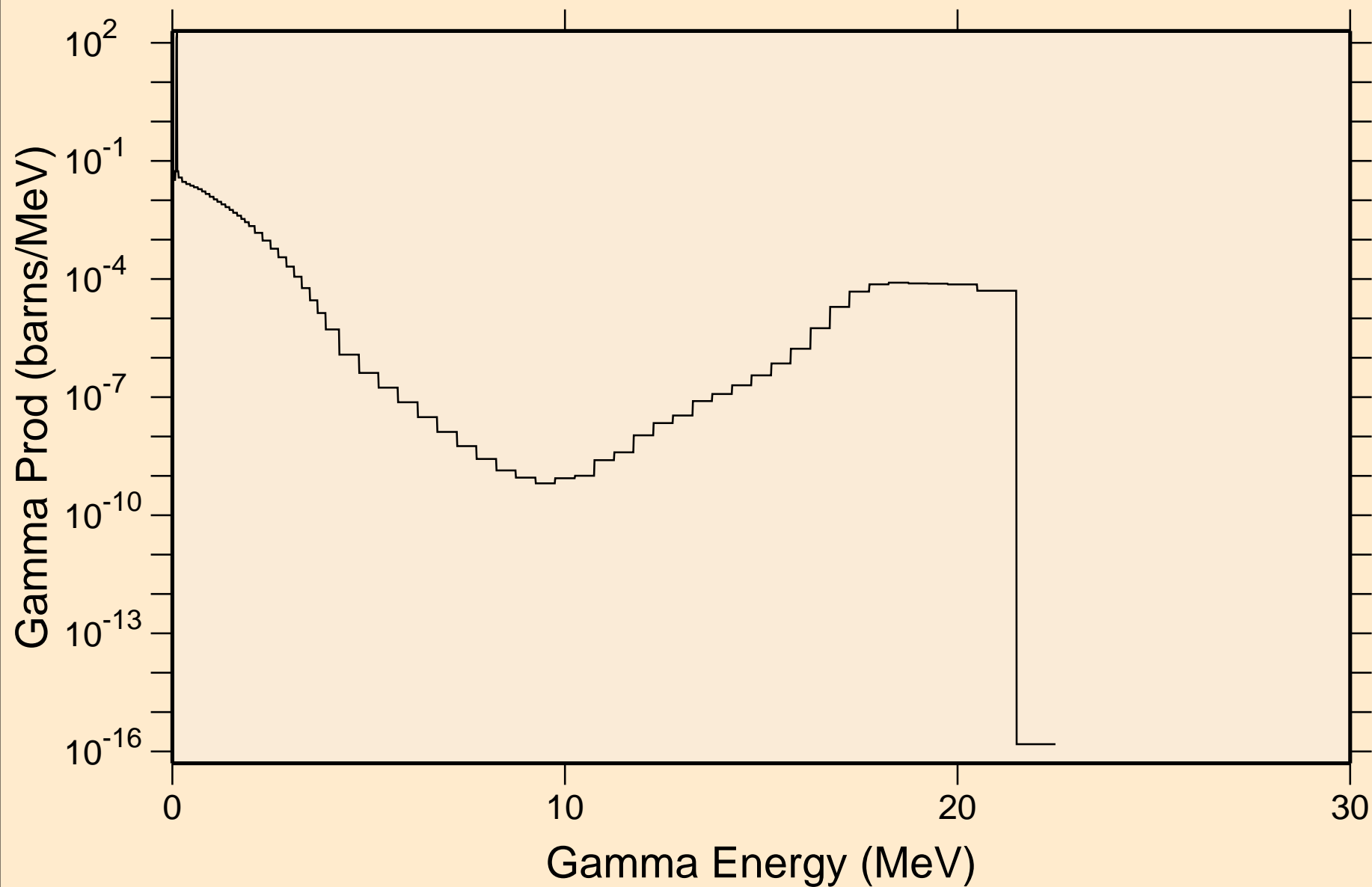
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Photon emission for (n,pd)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
thermal capture photon spectrum



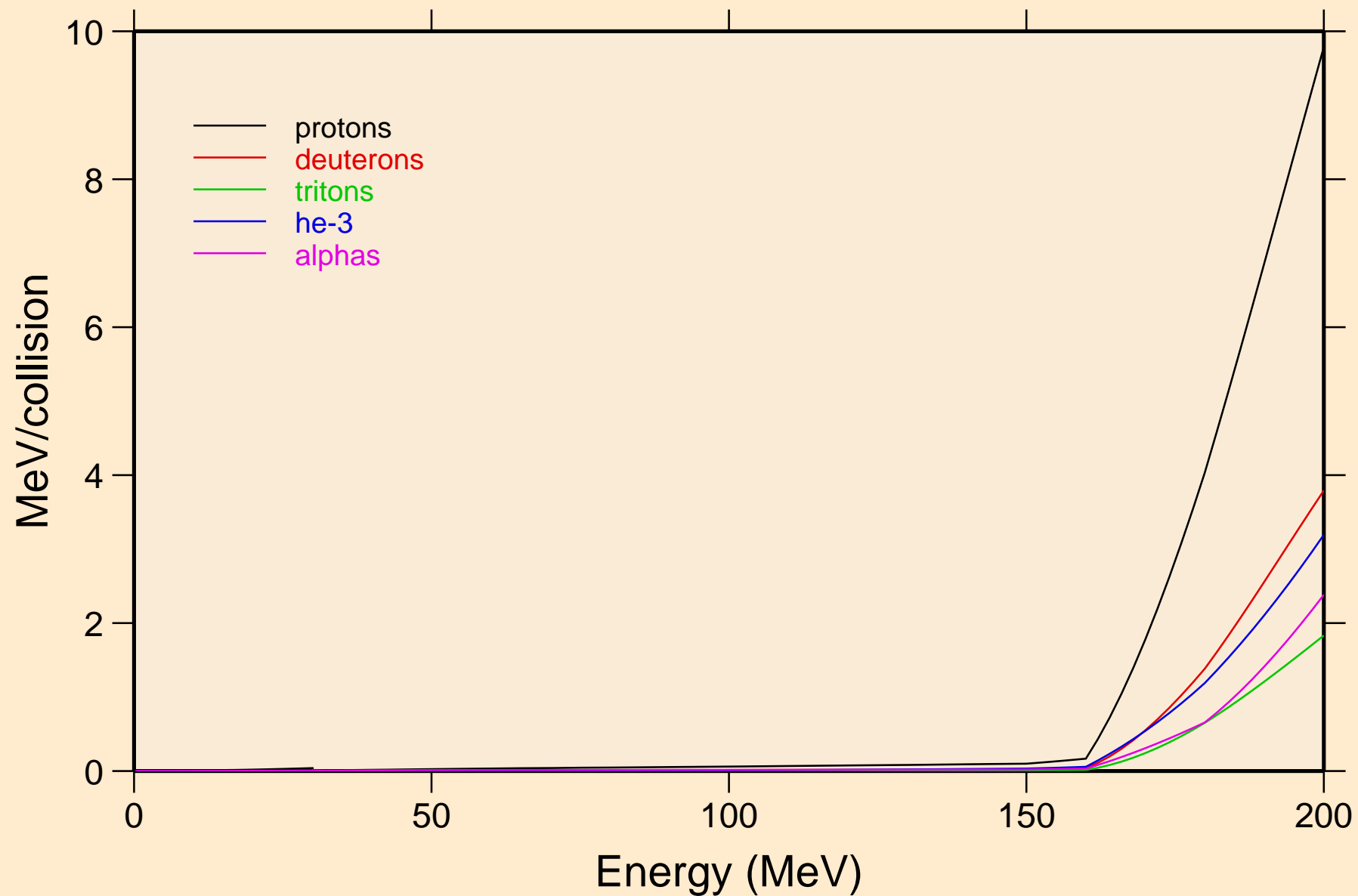
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
14 MeV photon spectrum



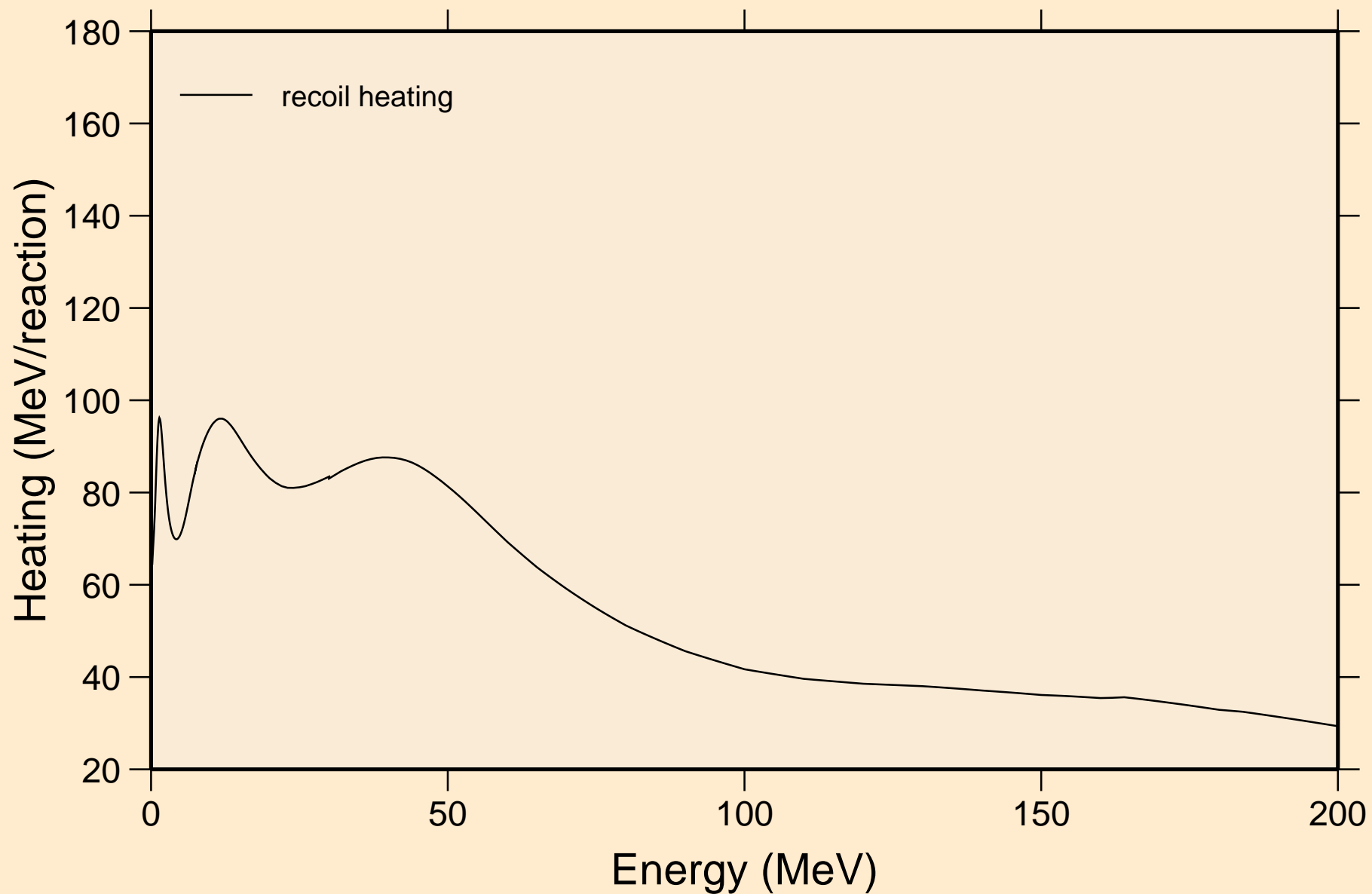


# ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K

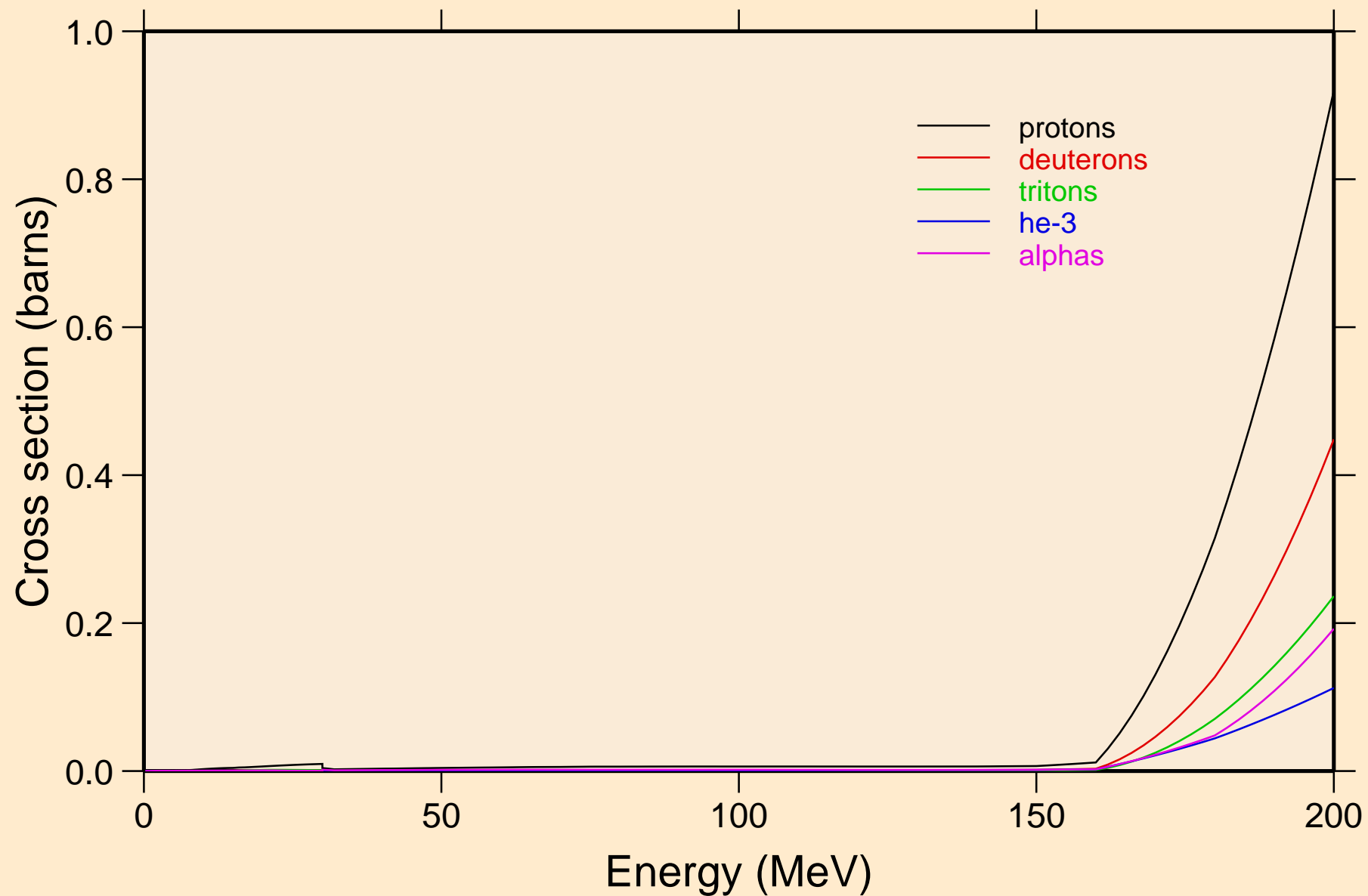
## Particle heating contributions



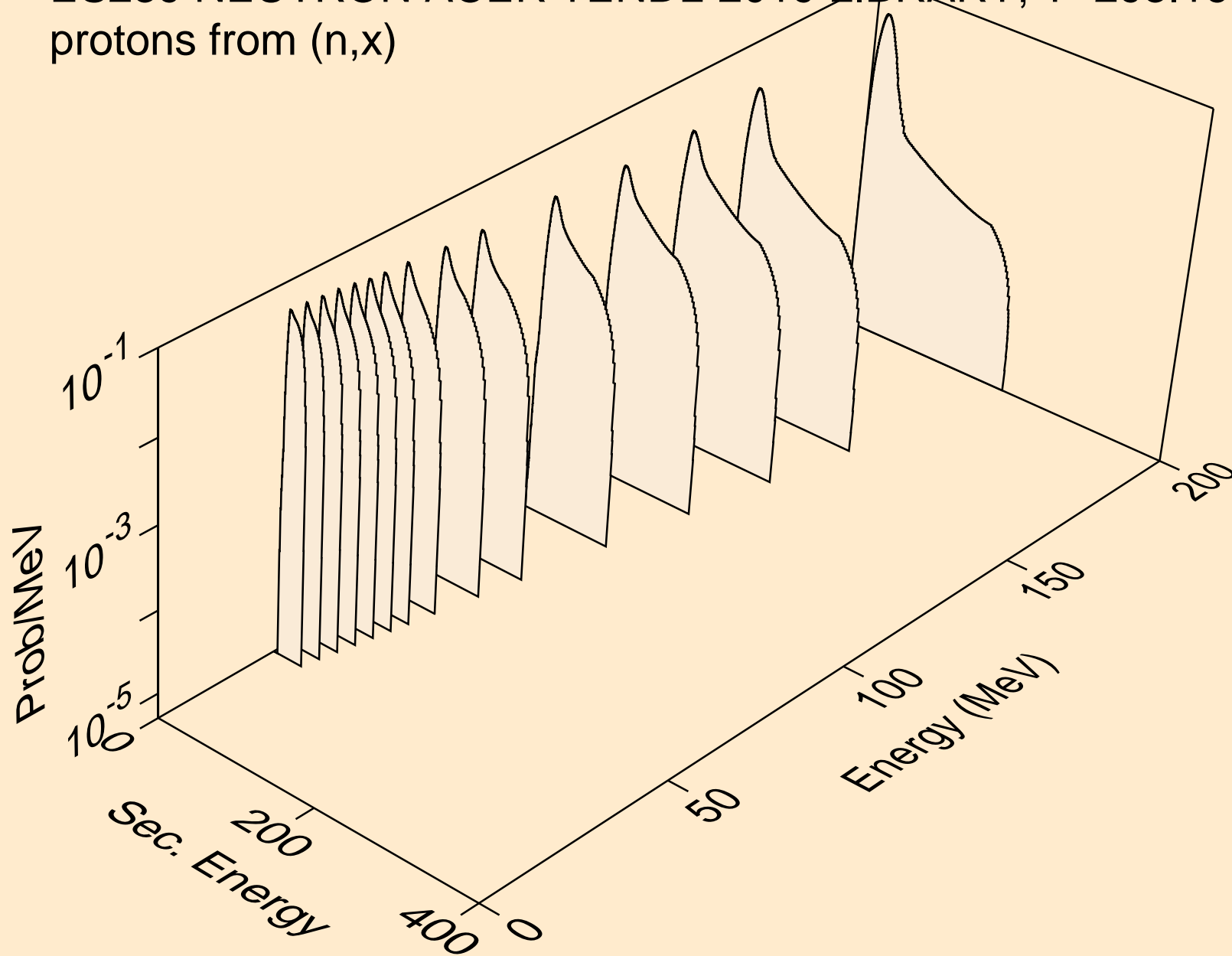
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Recoil Heating



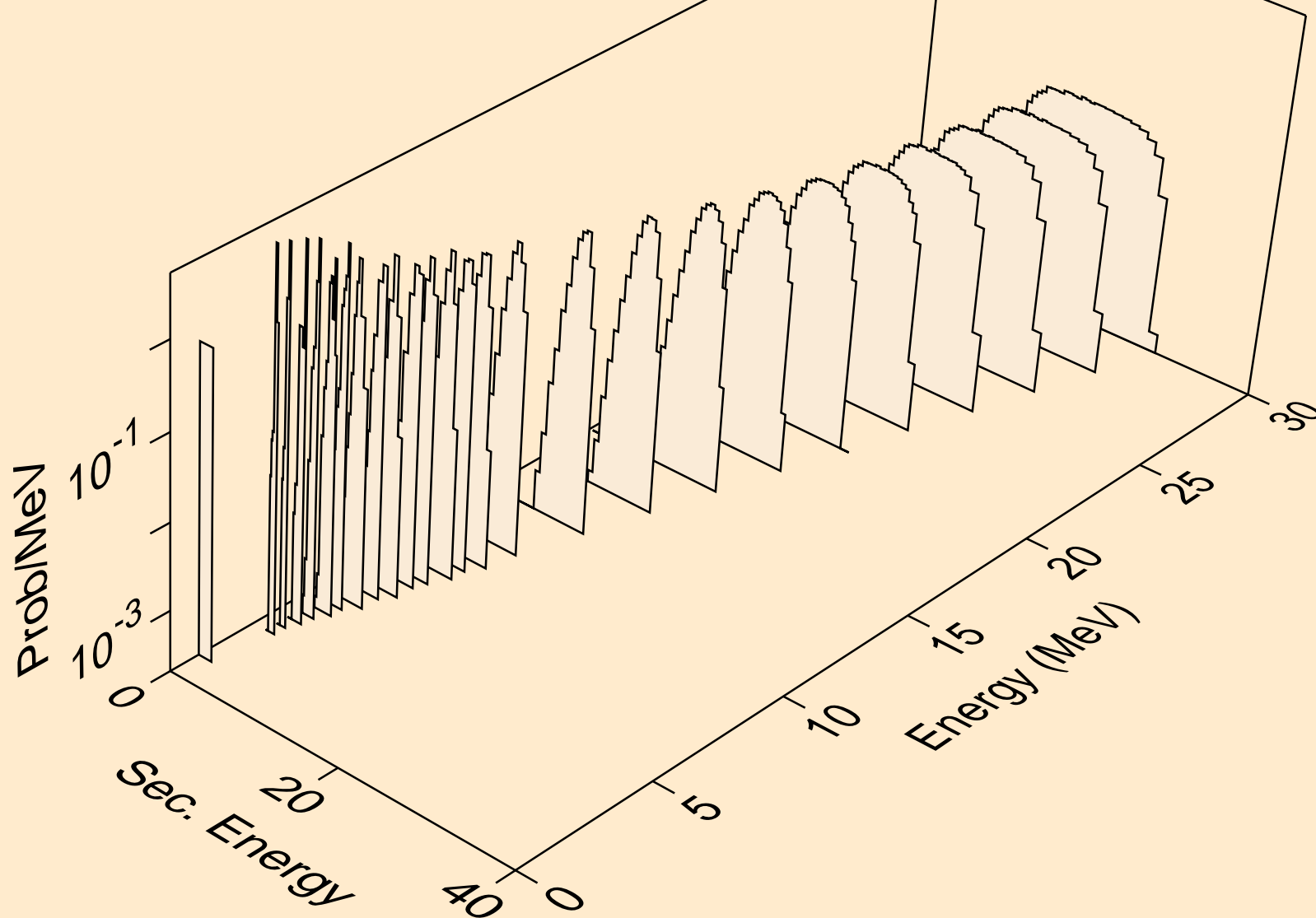
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
Particle production cross sections



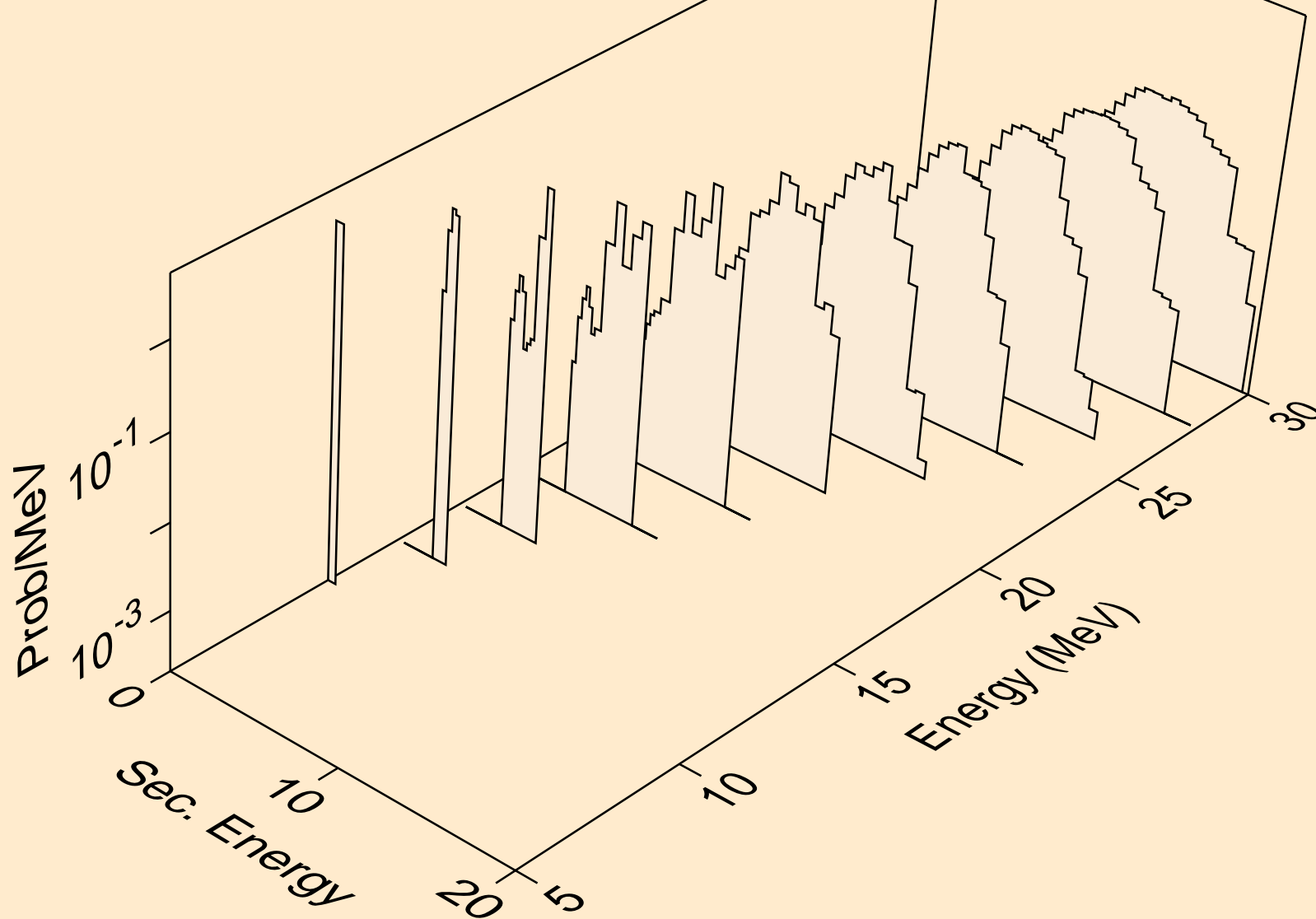
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,x)



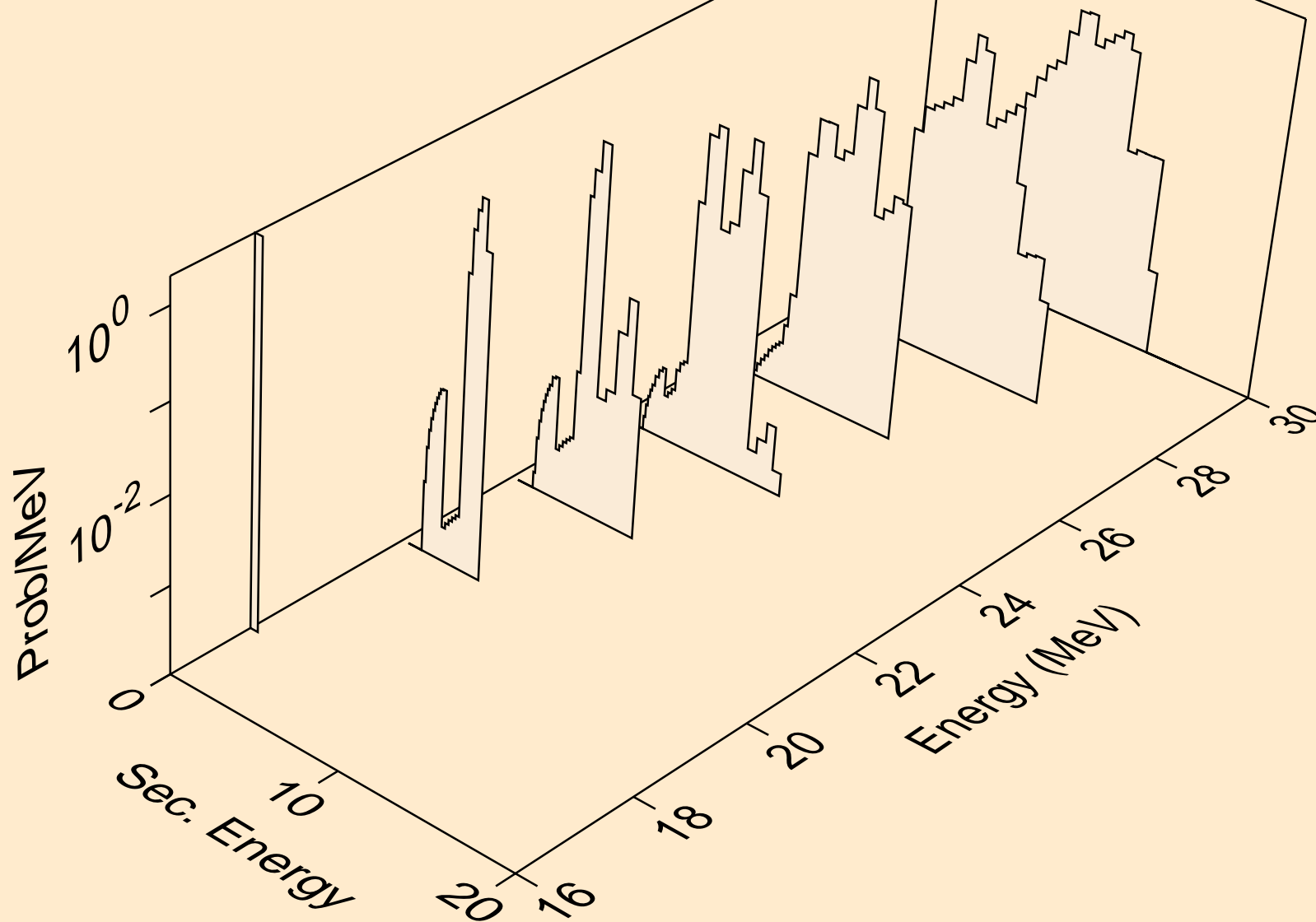
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,n\*)p



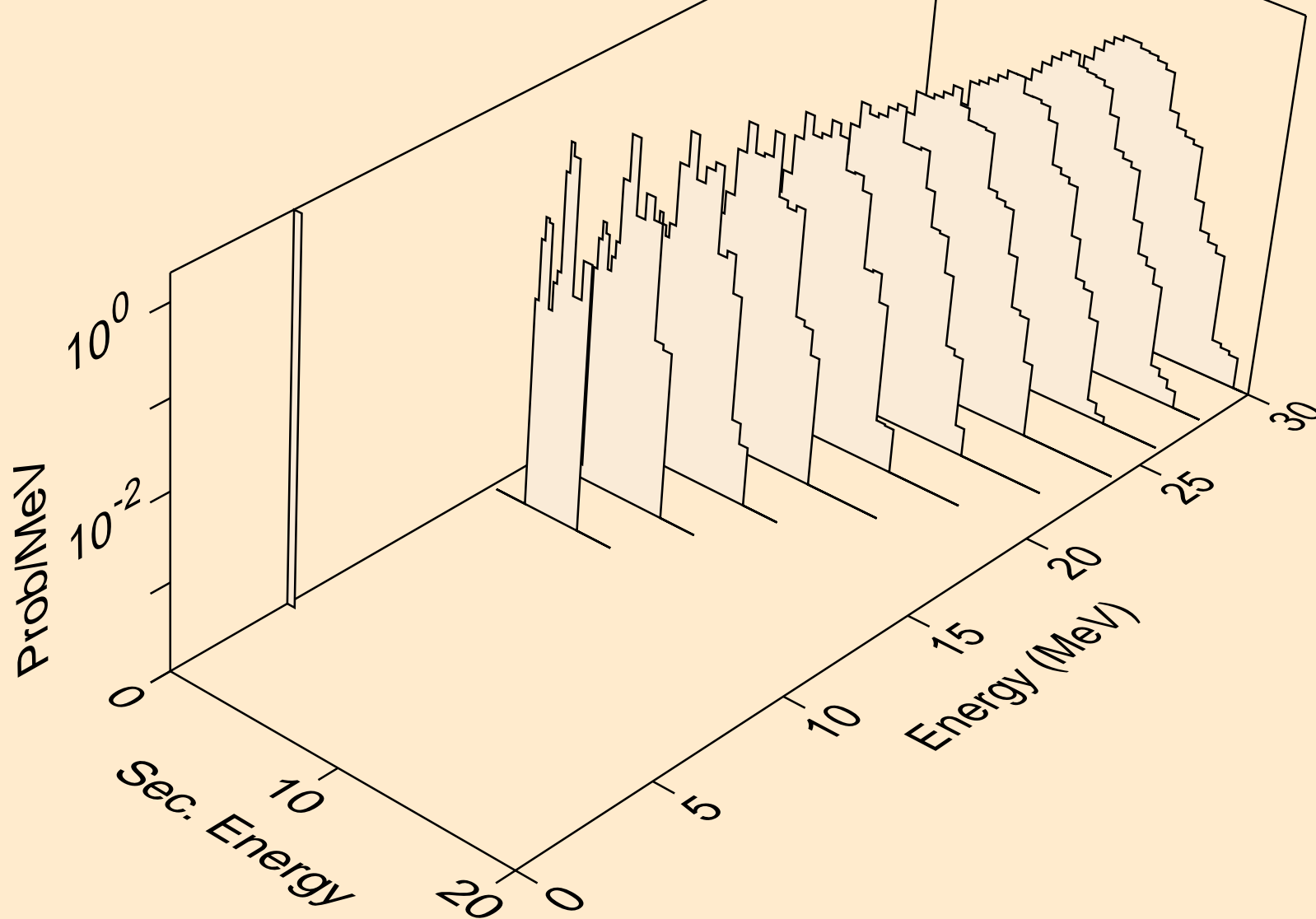
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,3np)

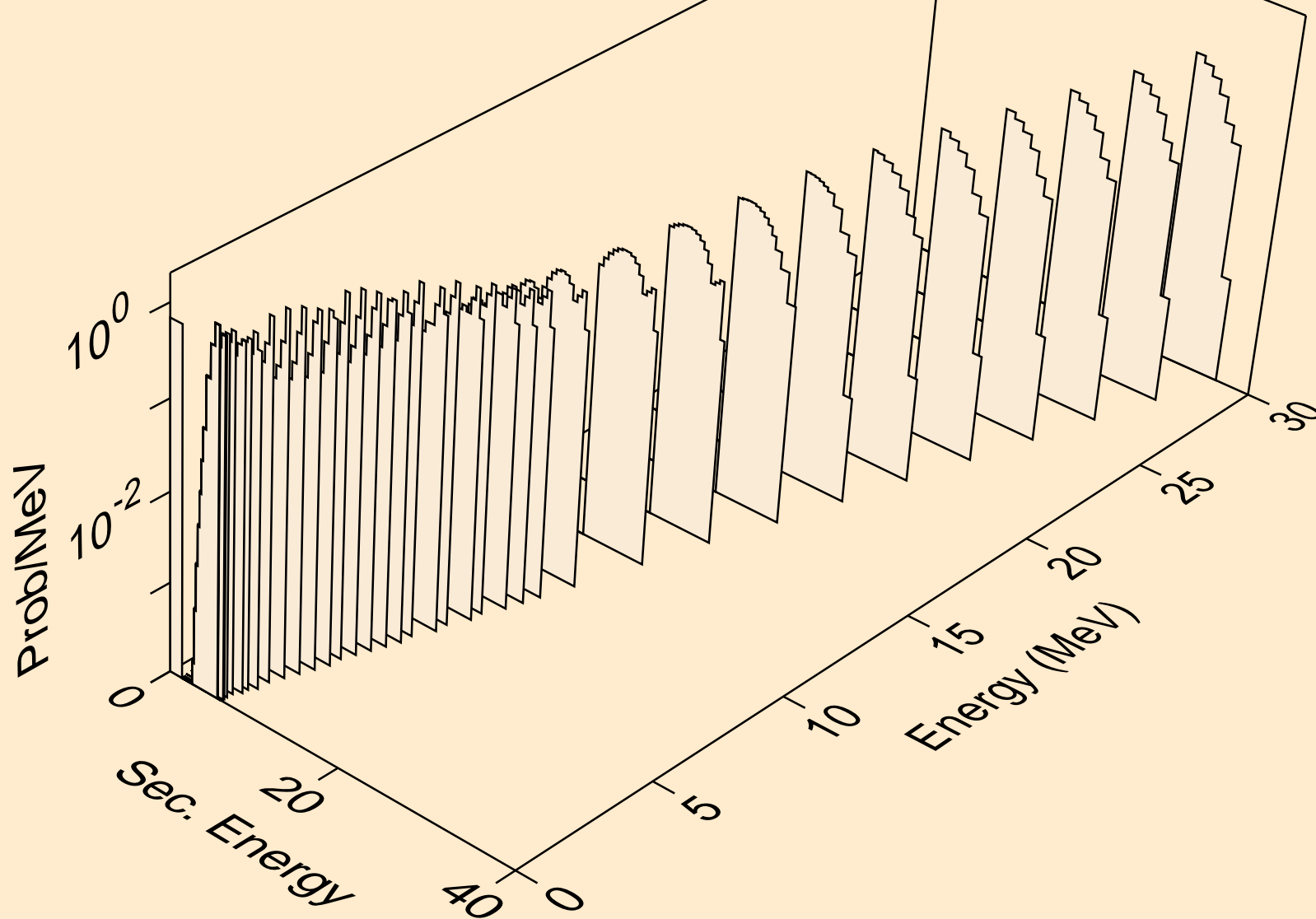


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2np)

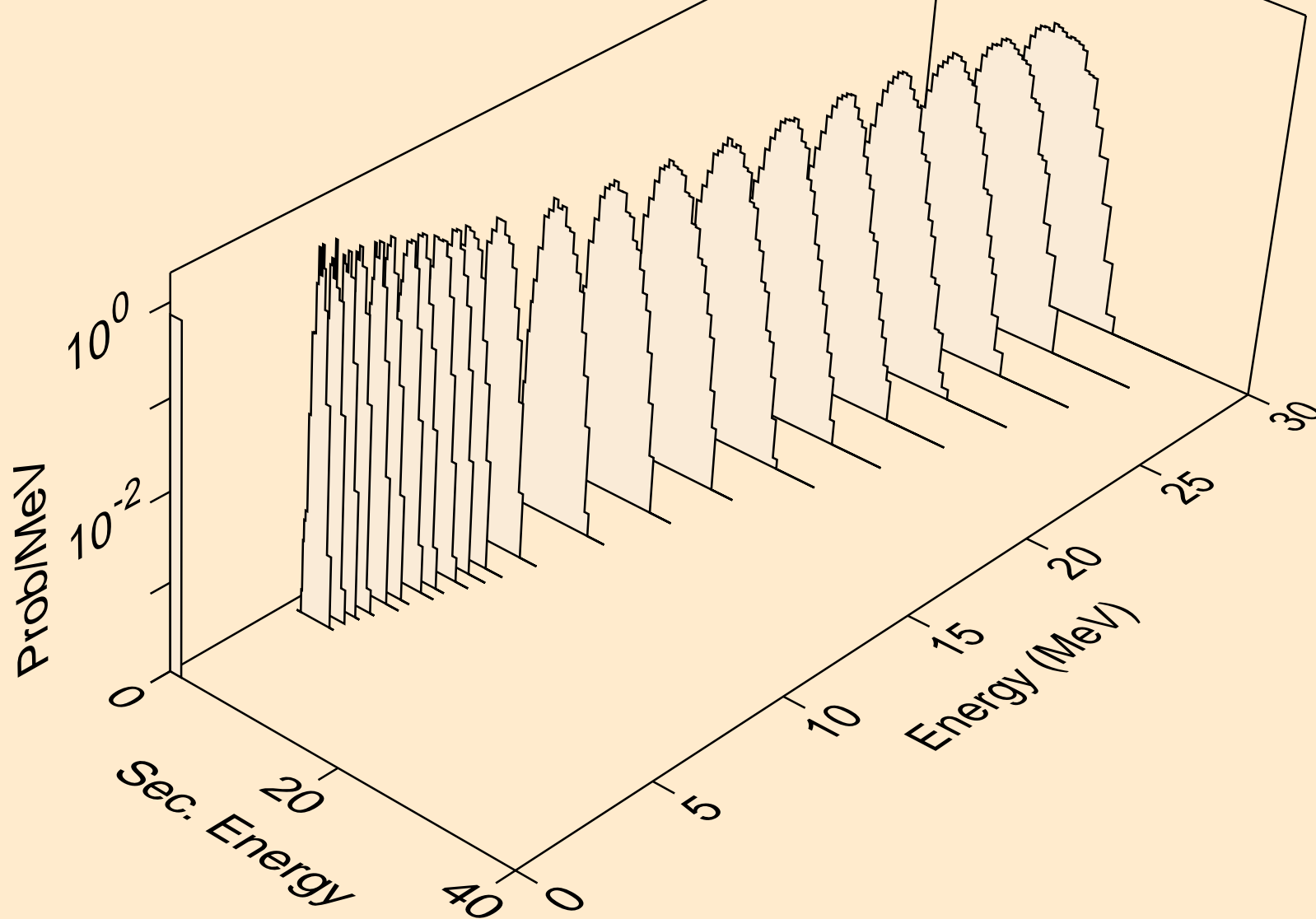




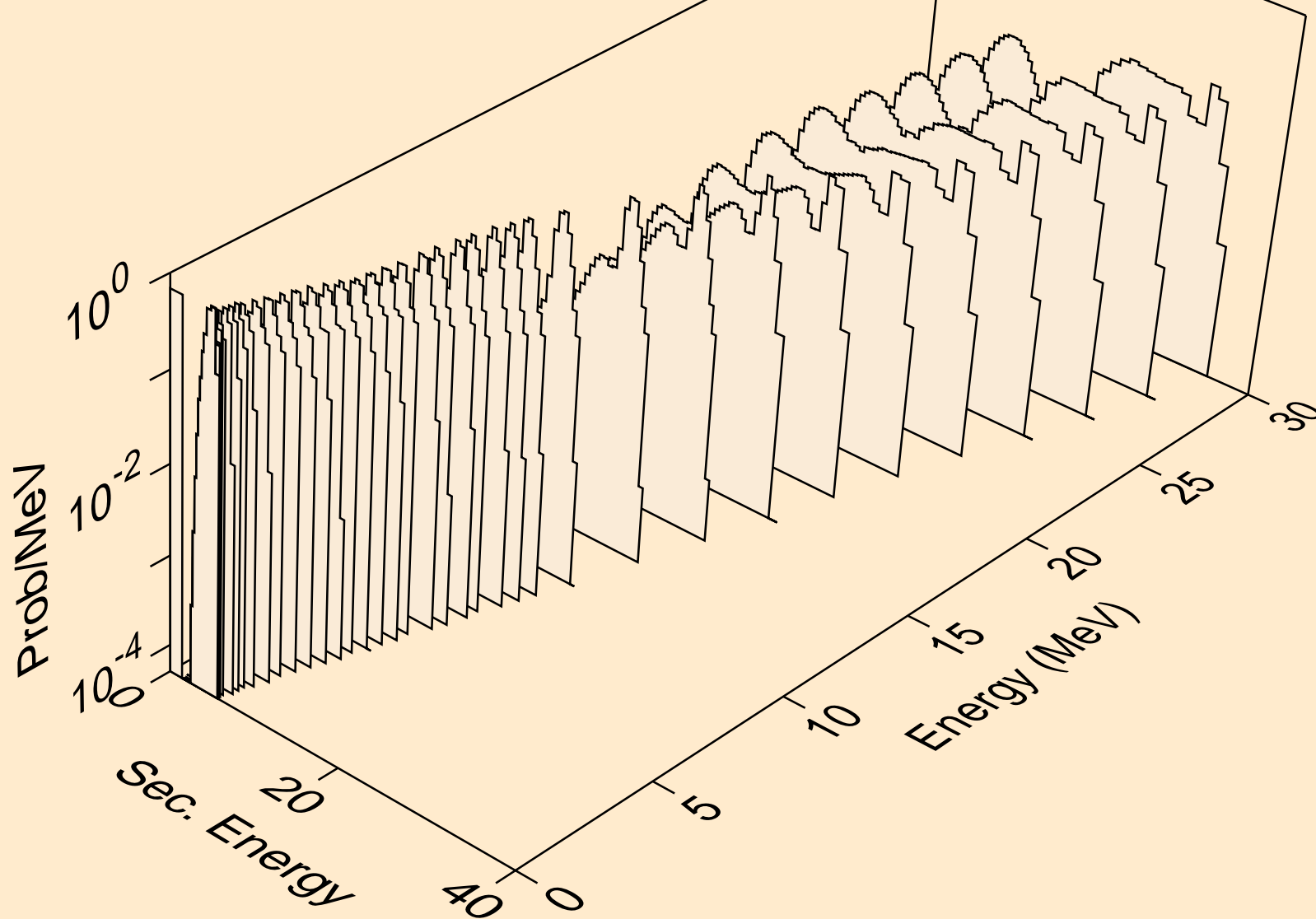
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



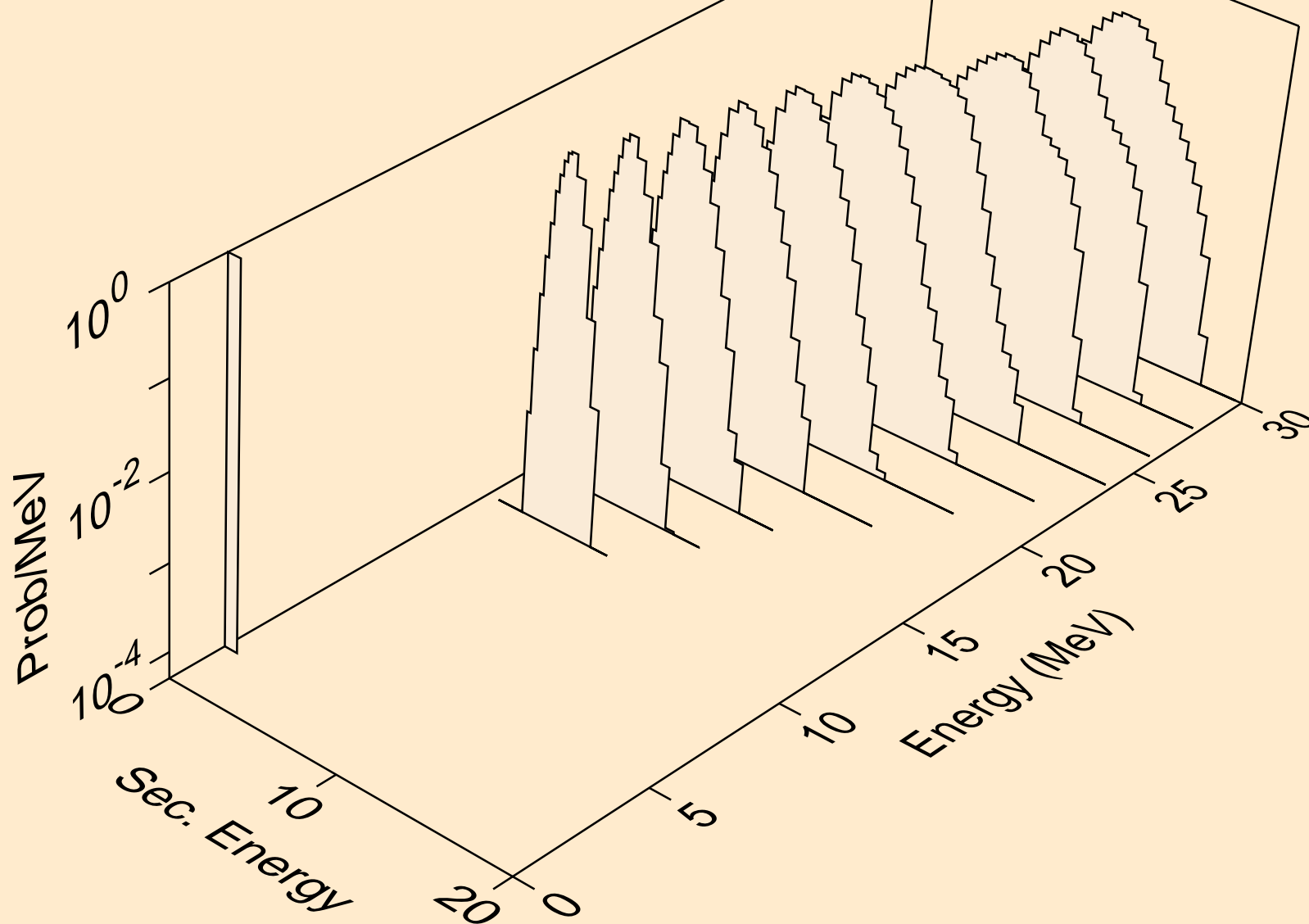
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,2p)



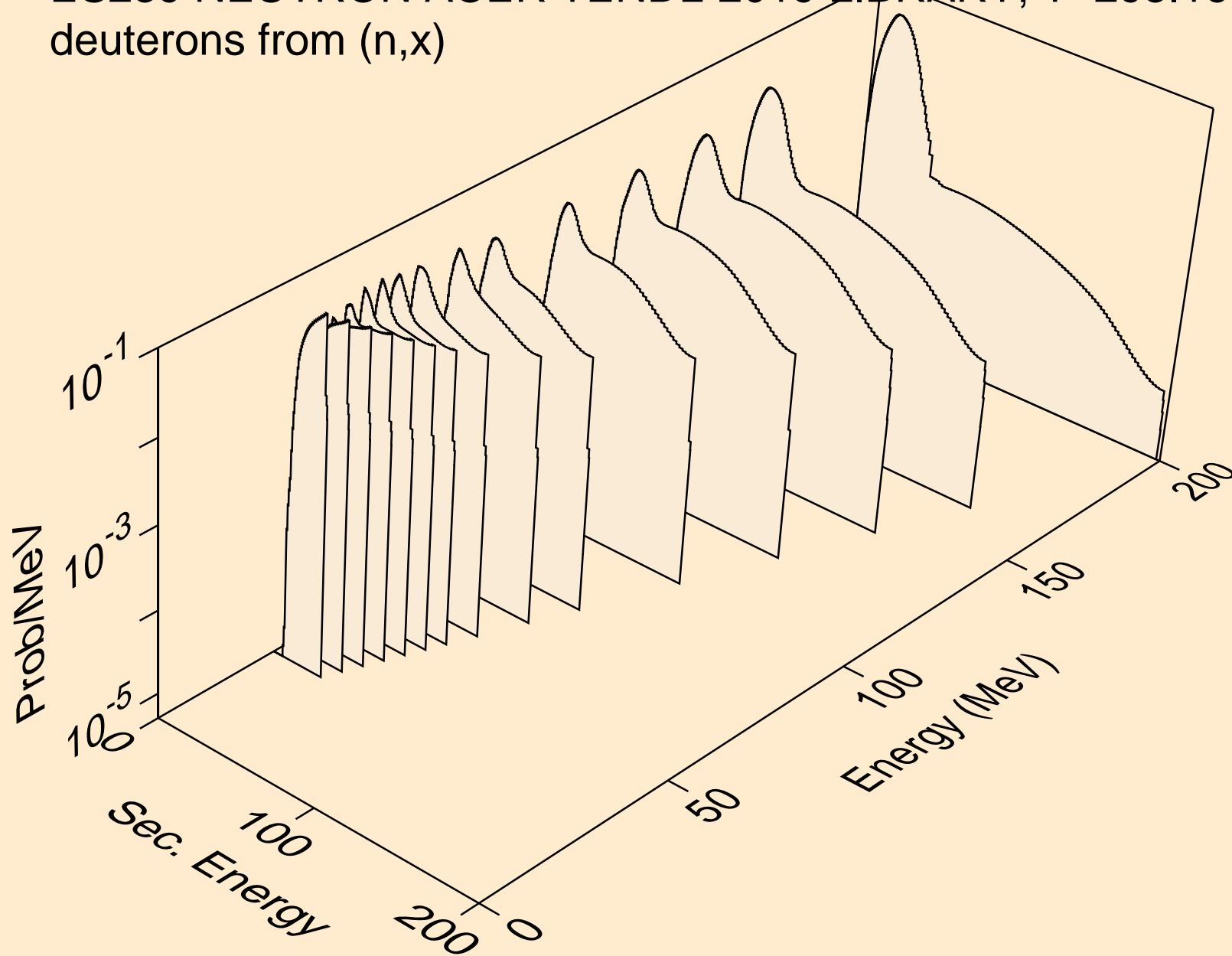
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,p)



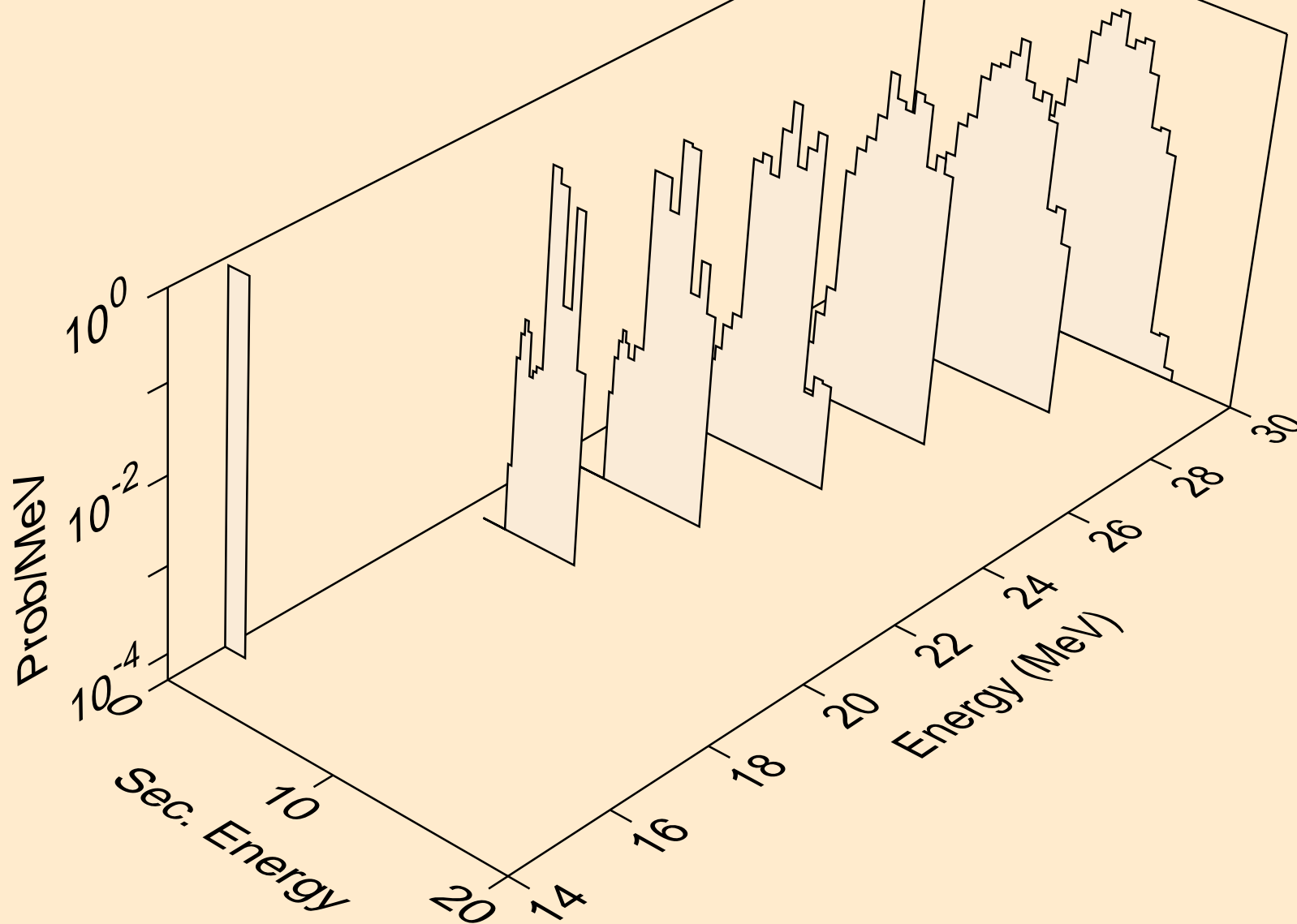
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
protons from (n,pd)



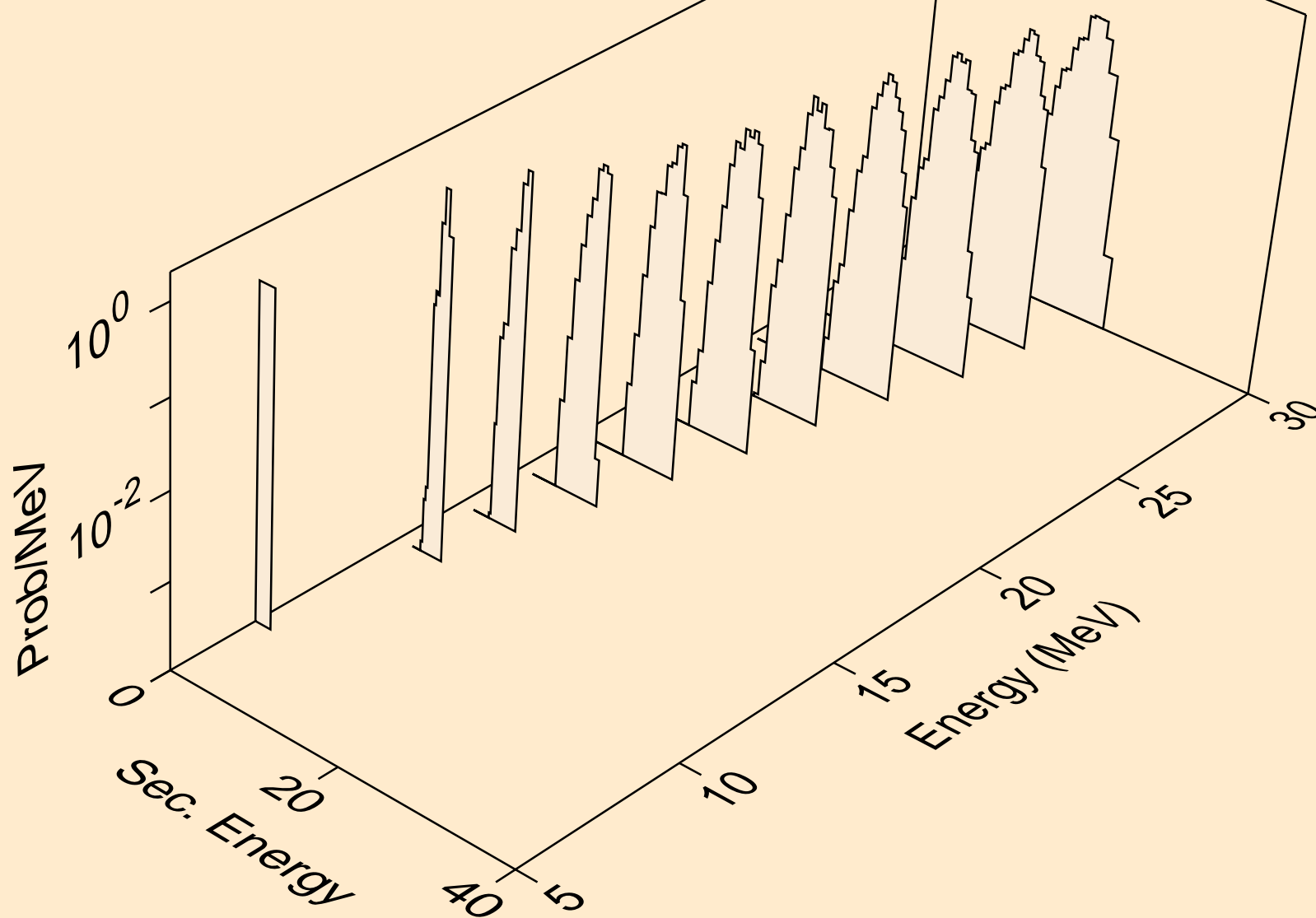
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,x)



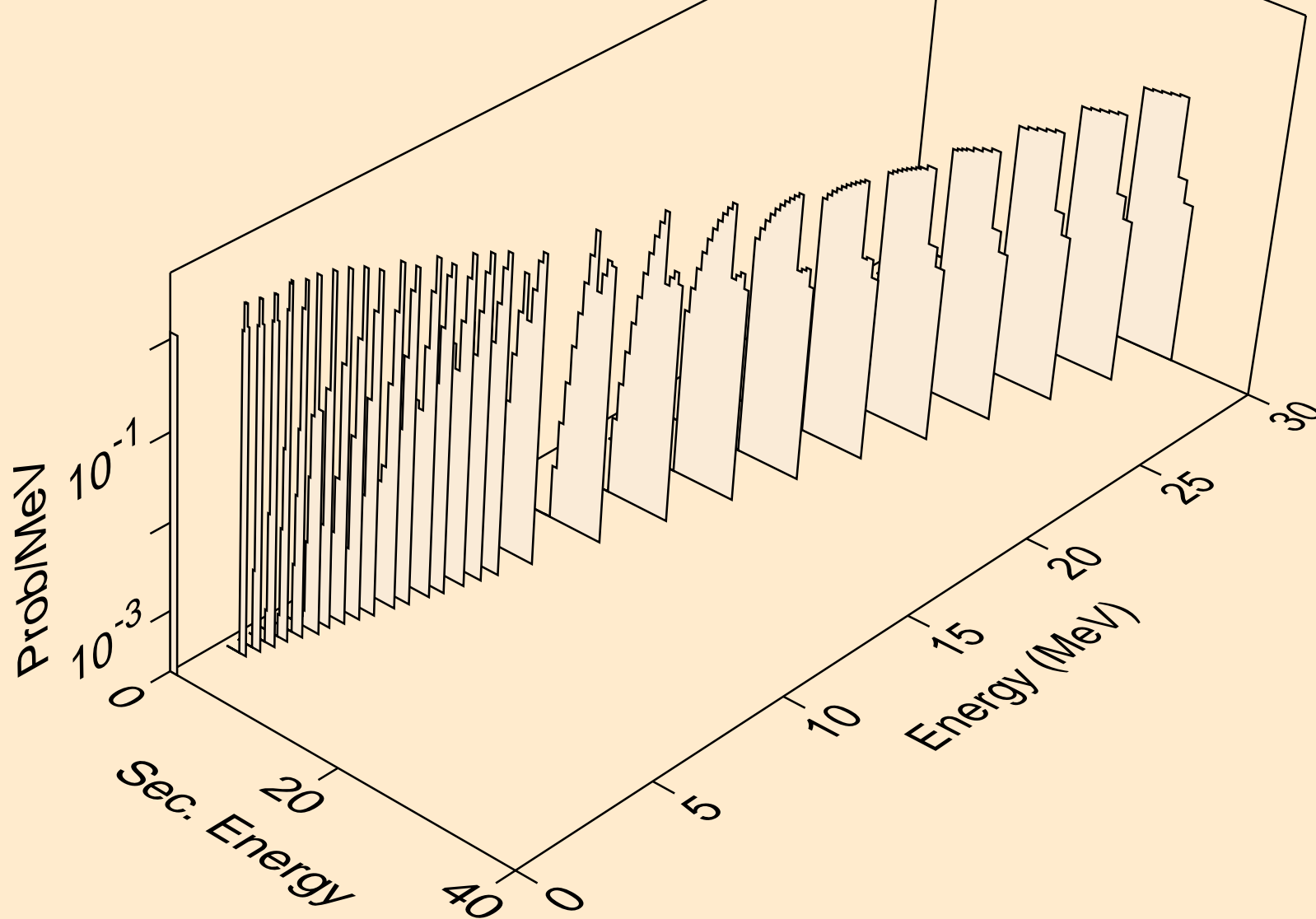
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,2nd)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,n\*)d

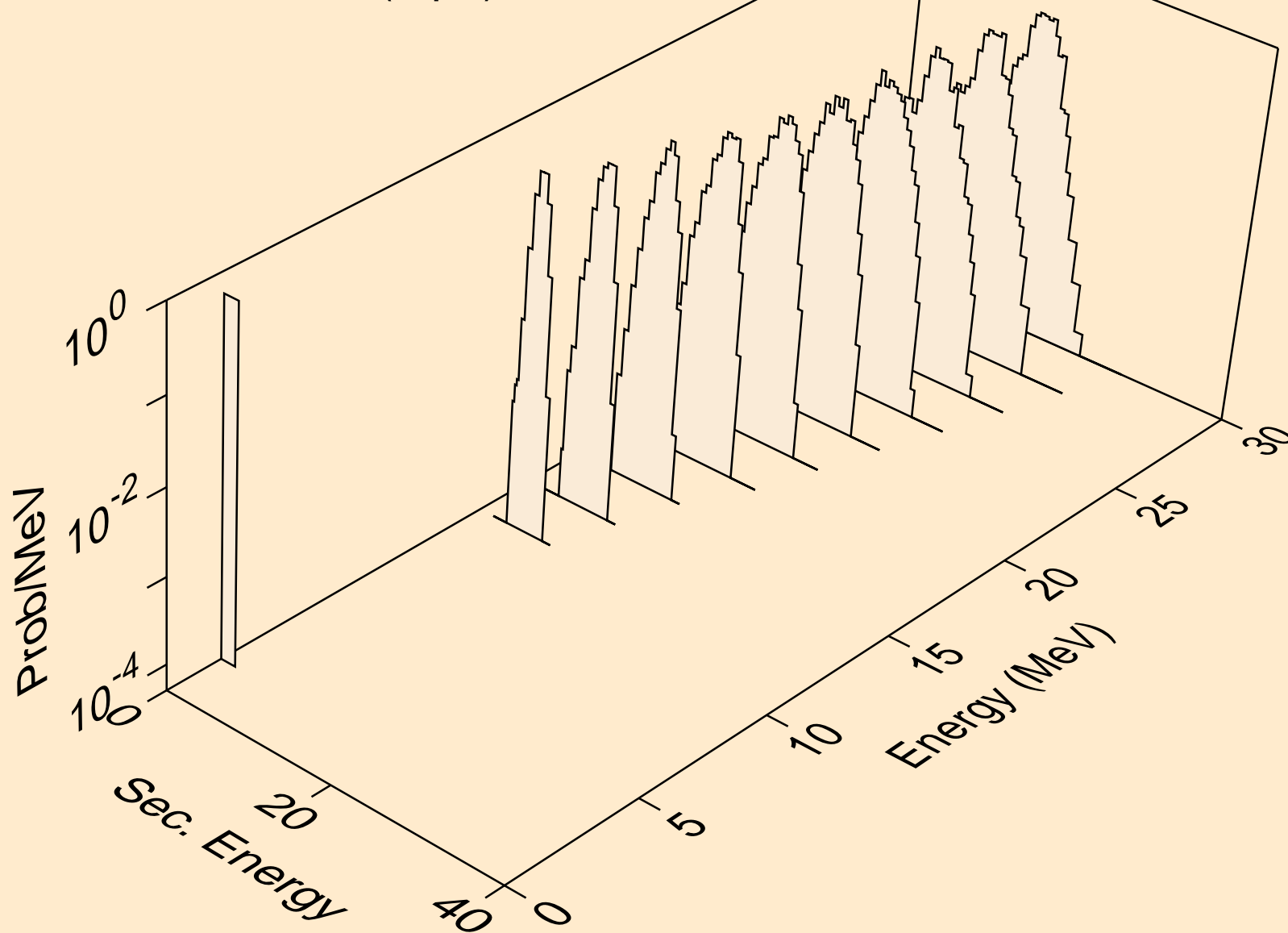


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,d)

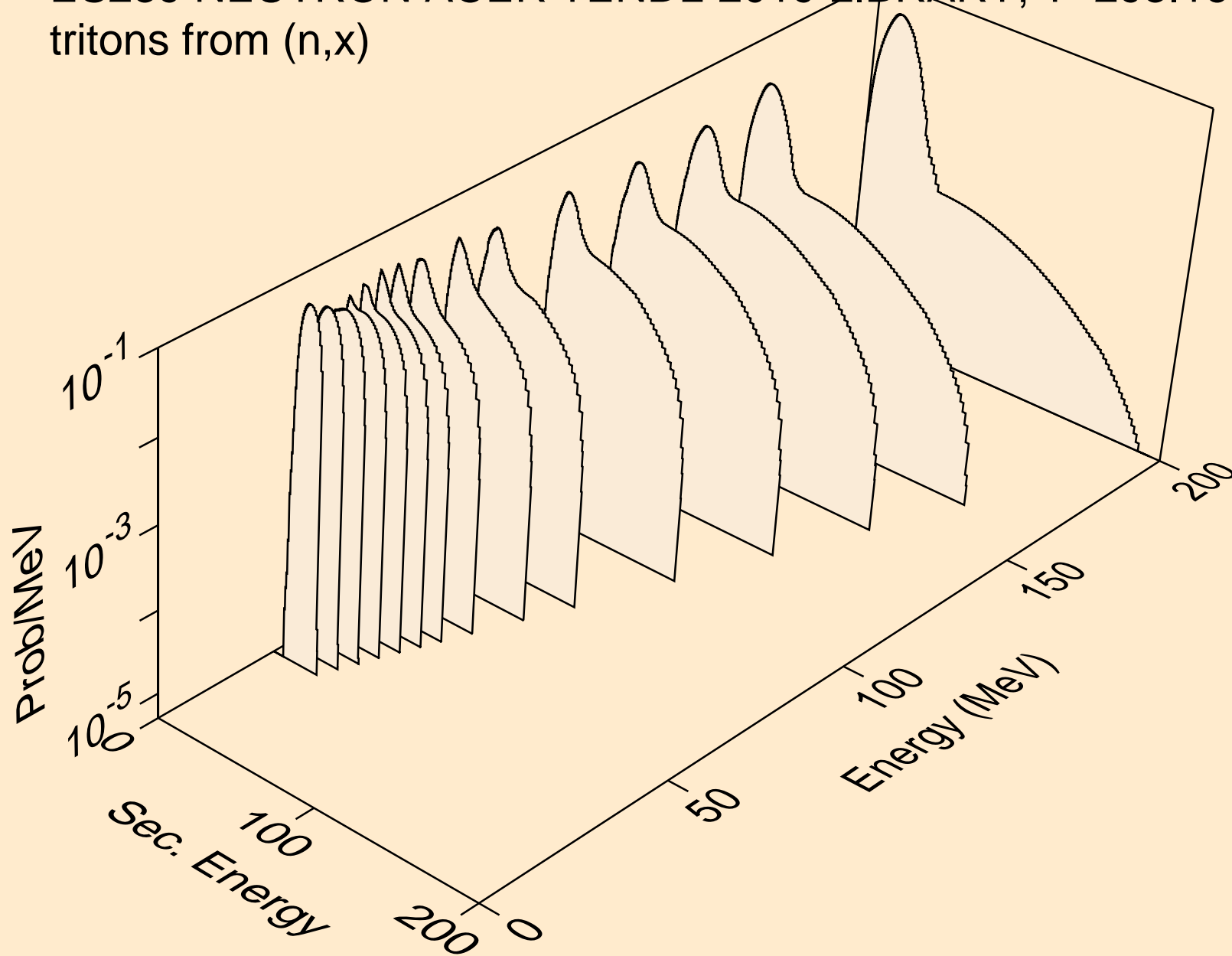




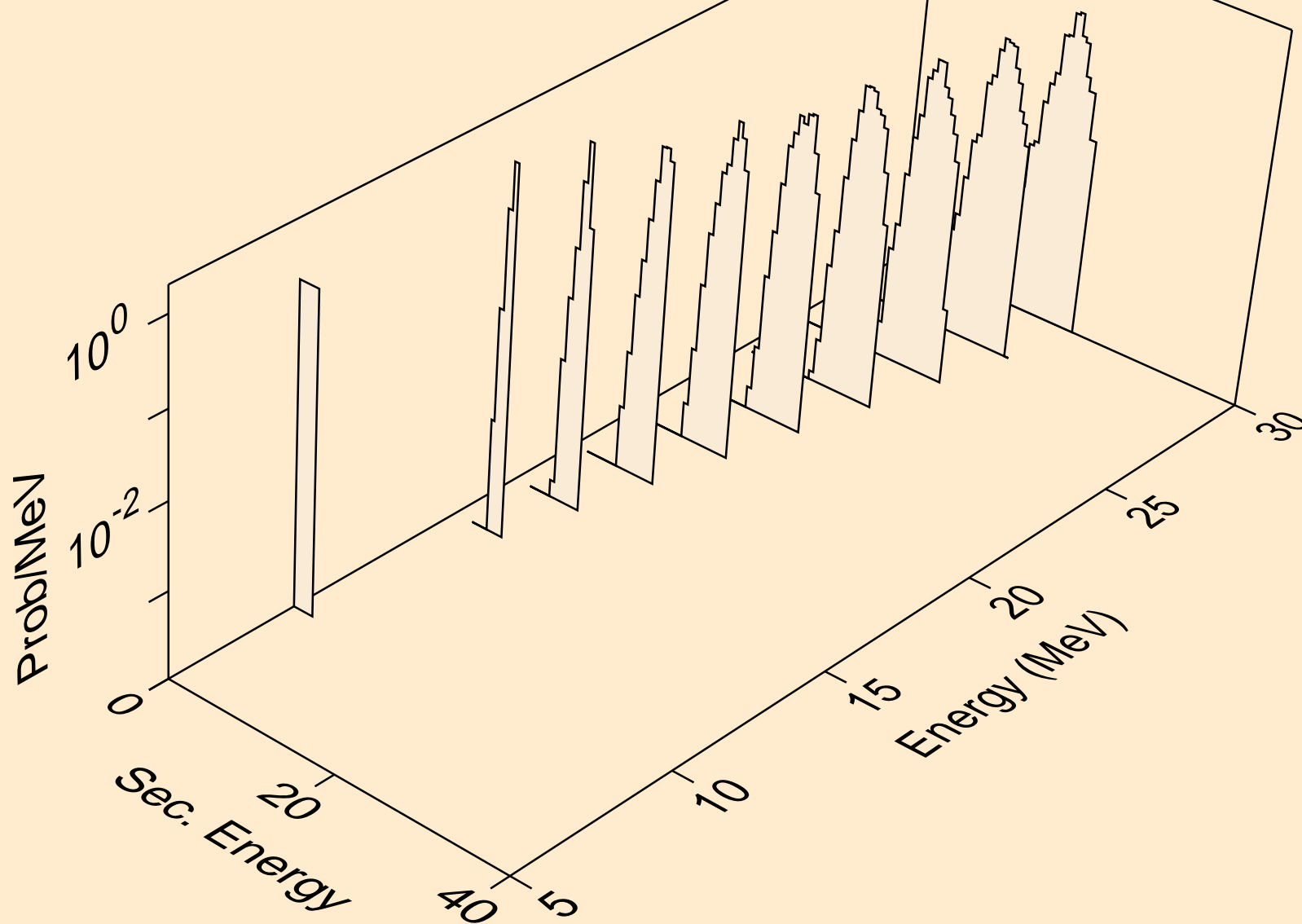
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
deuterons from (n,pd)



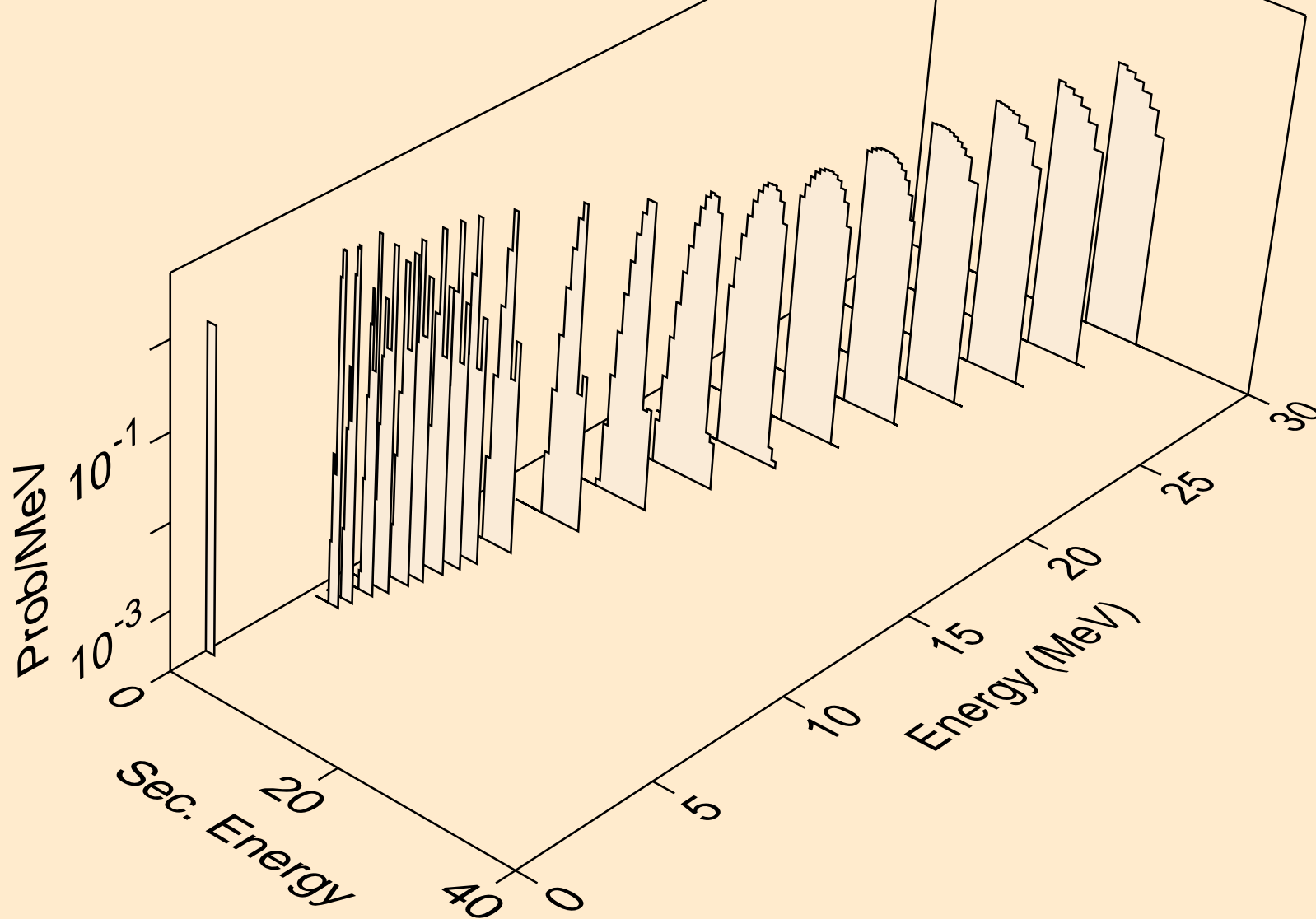
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,x)



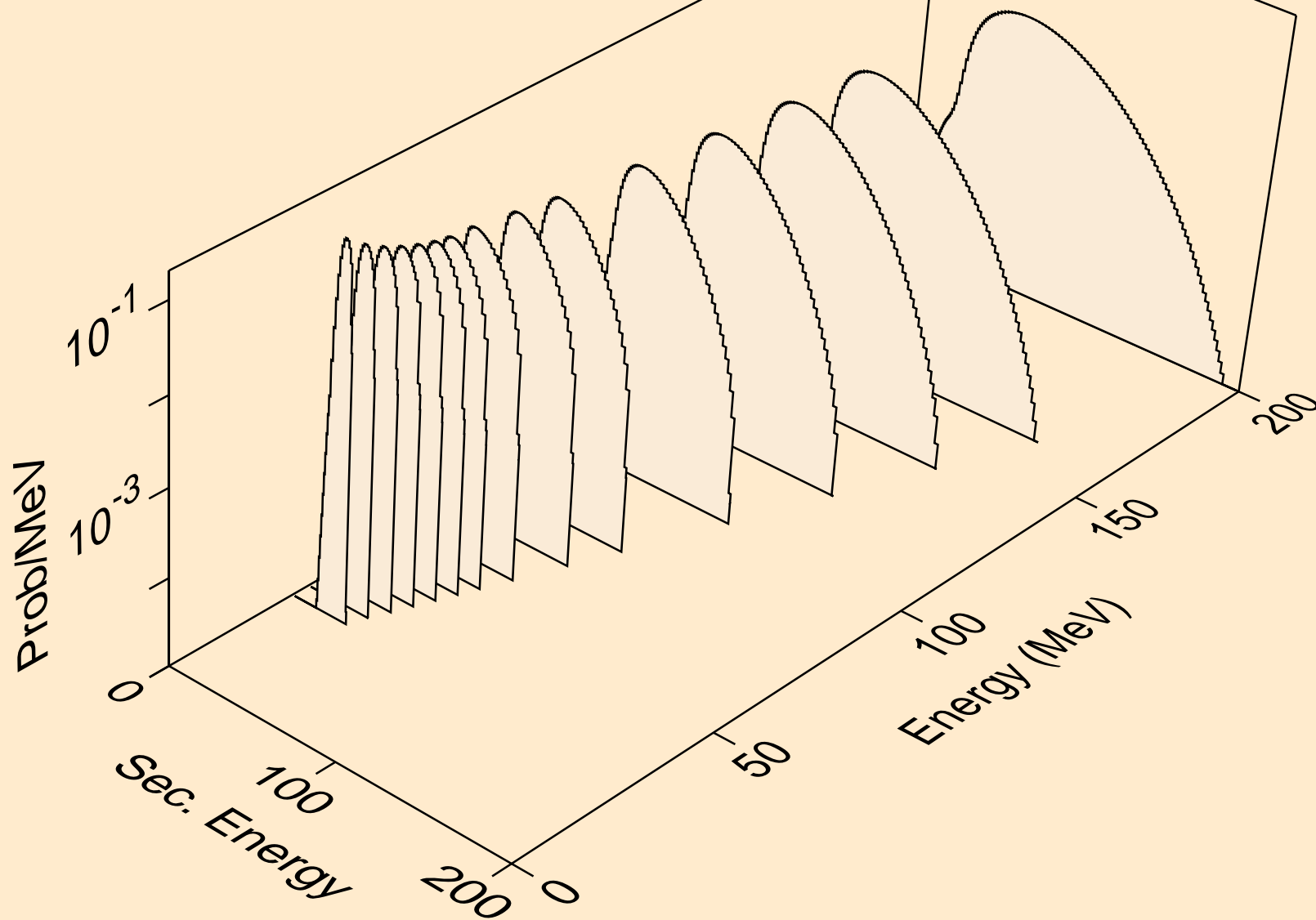
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,n\*)t



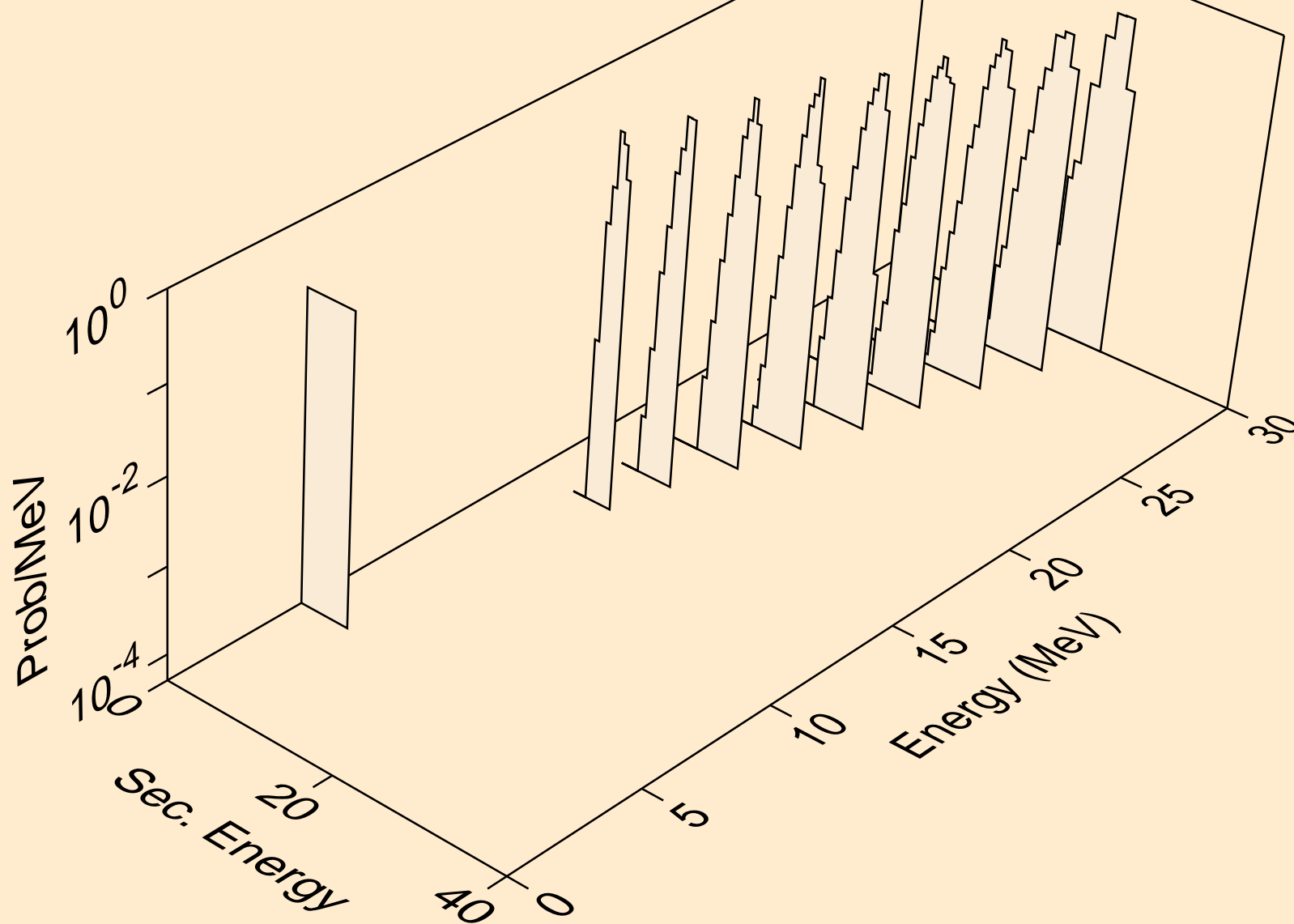
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
tritons from (n,t)



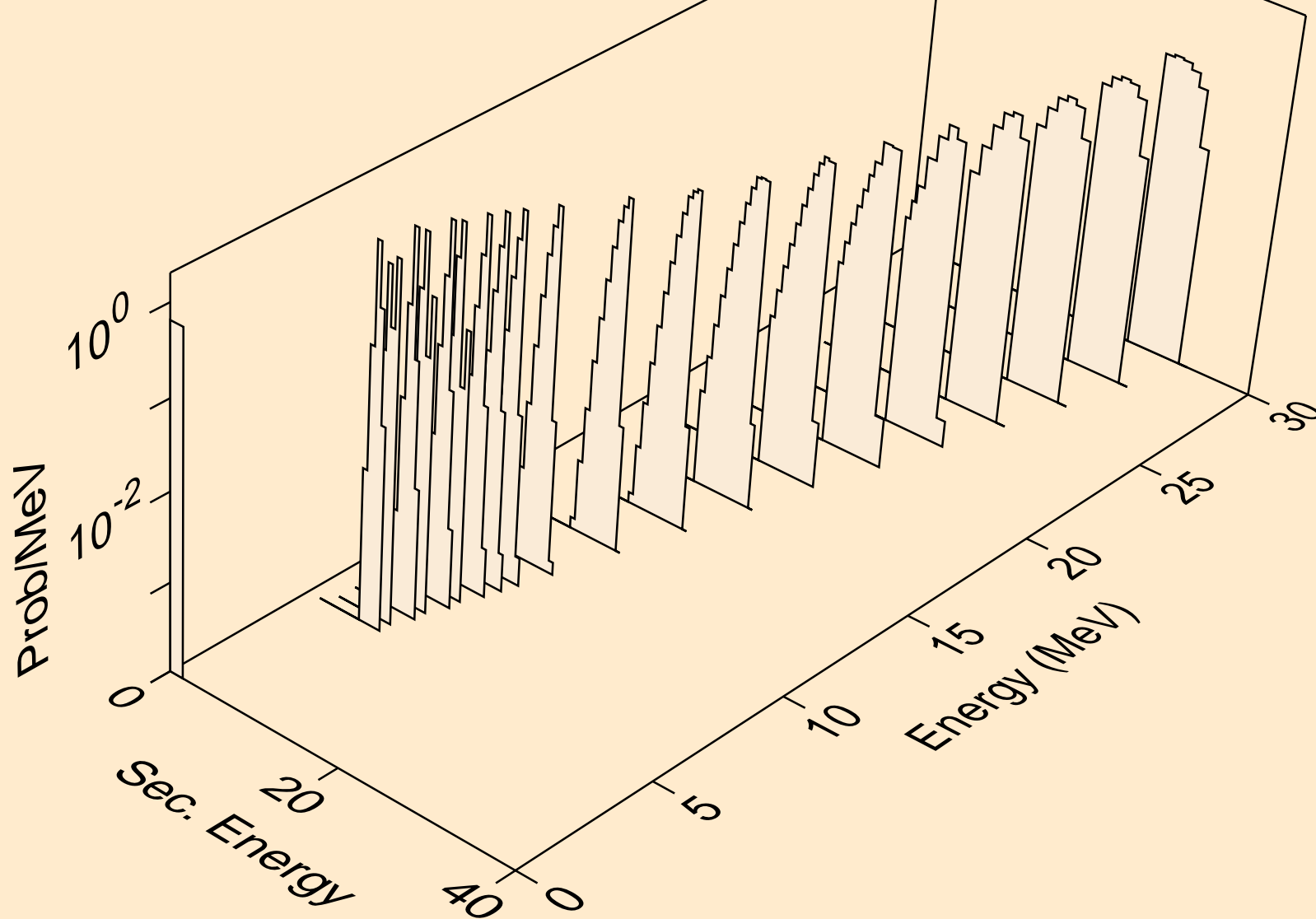
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,x)



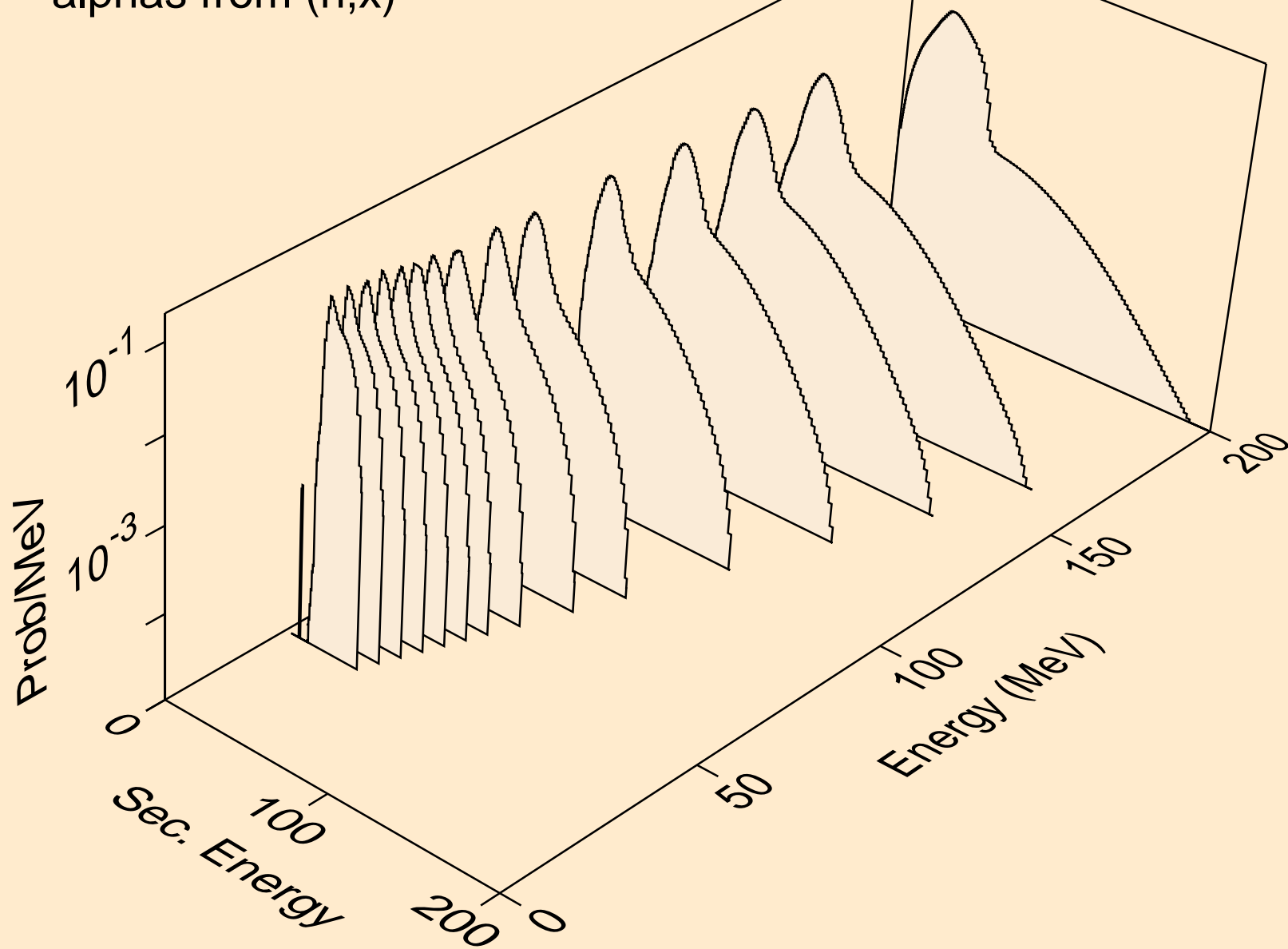
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,n\*)he3



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
he3s from (n,he3)

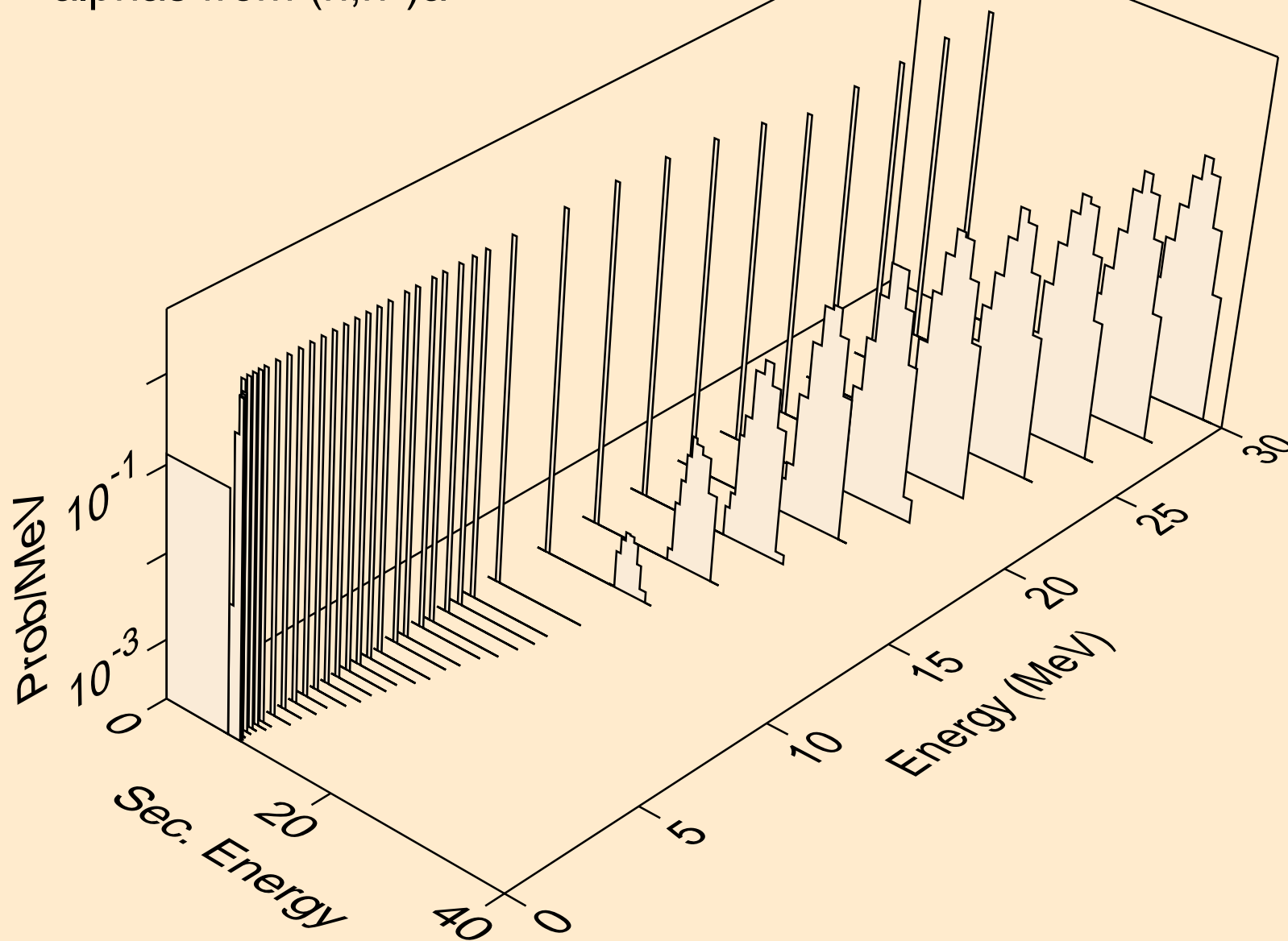


ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,x)

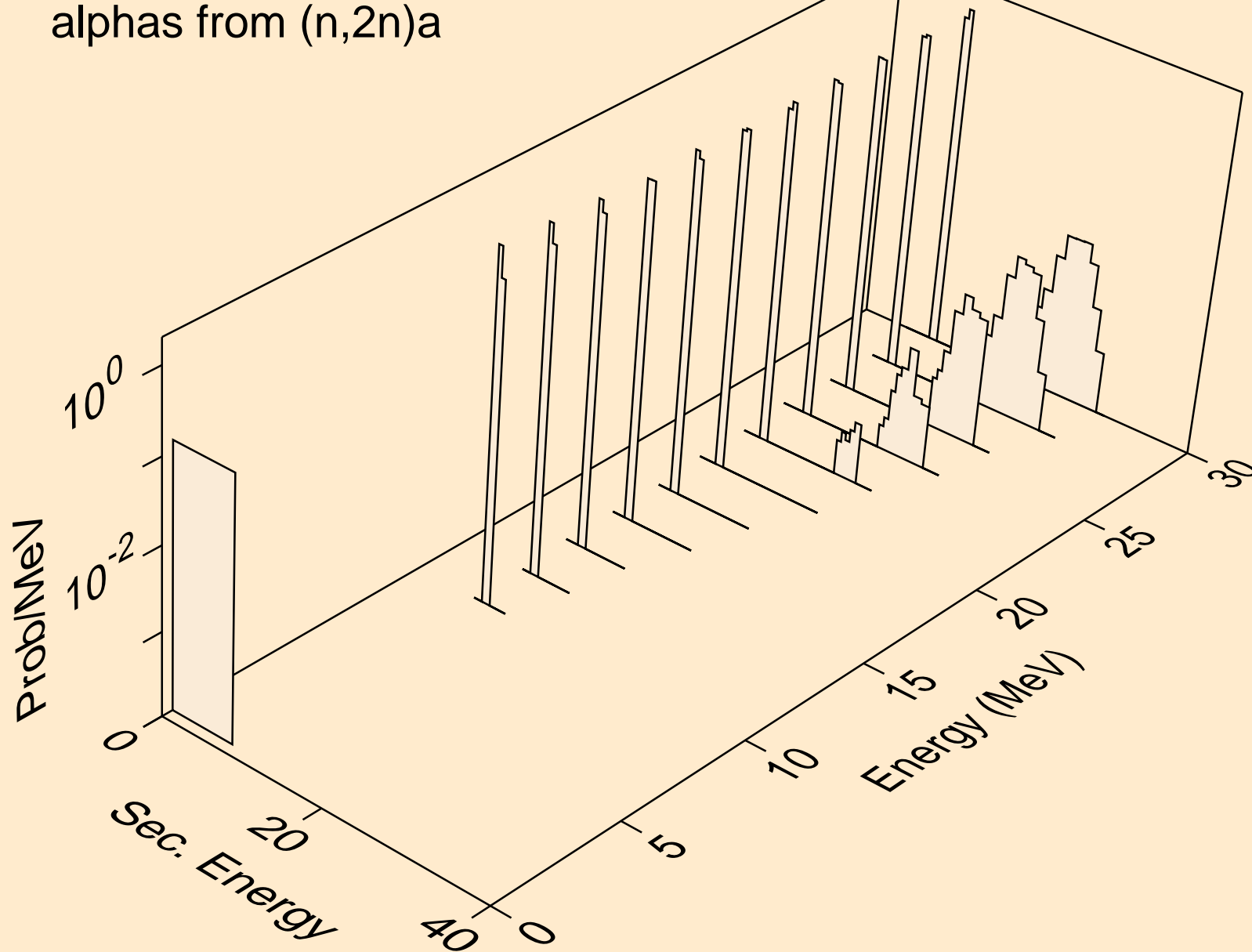




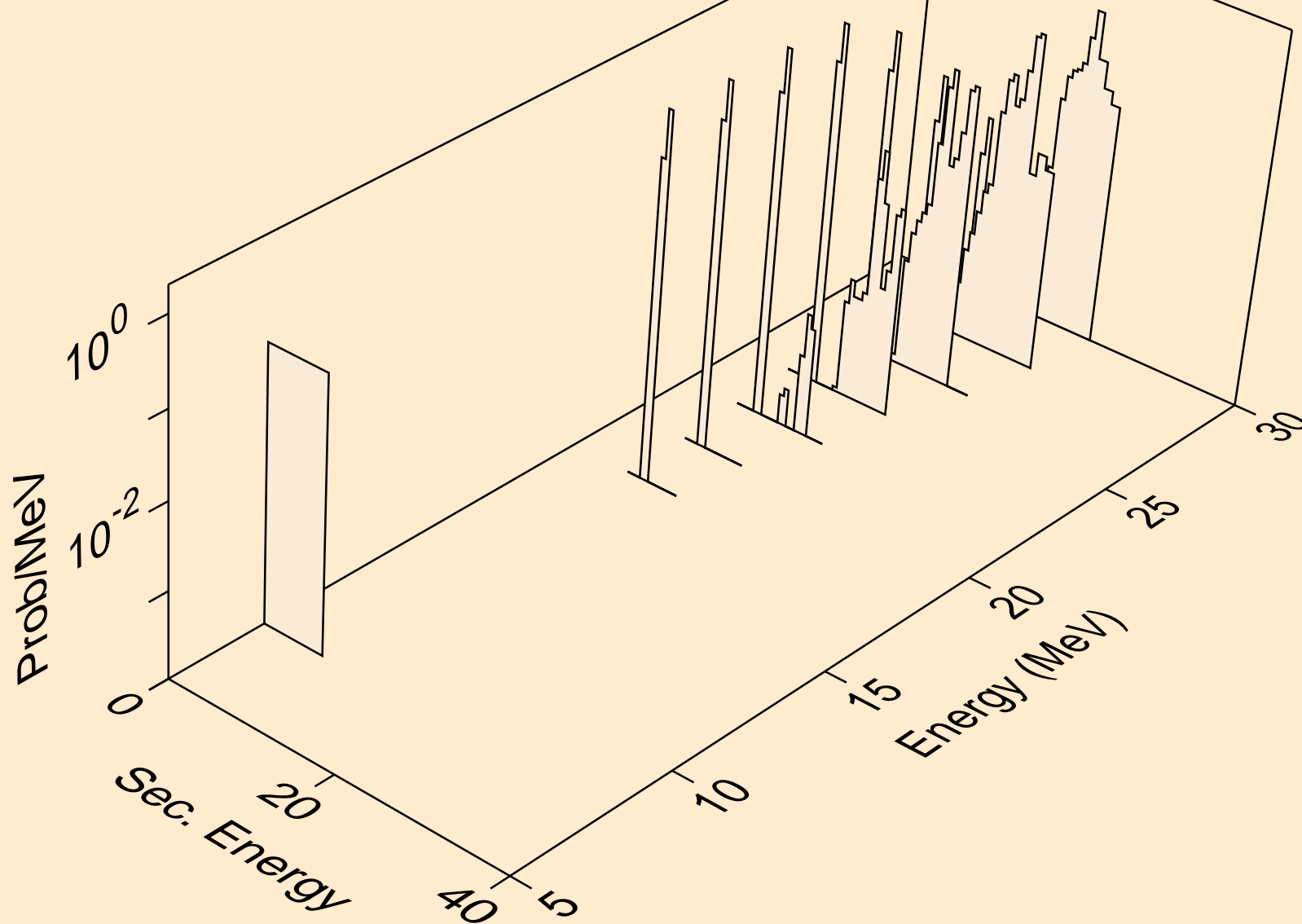
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,n\*)a



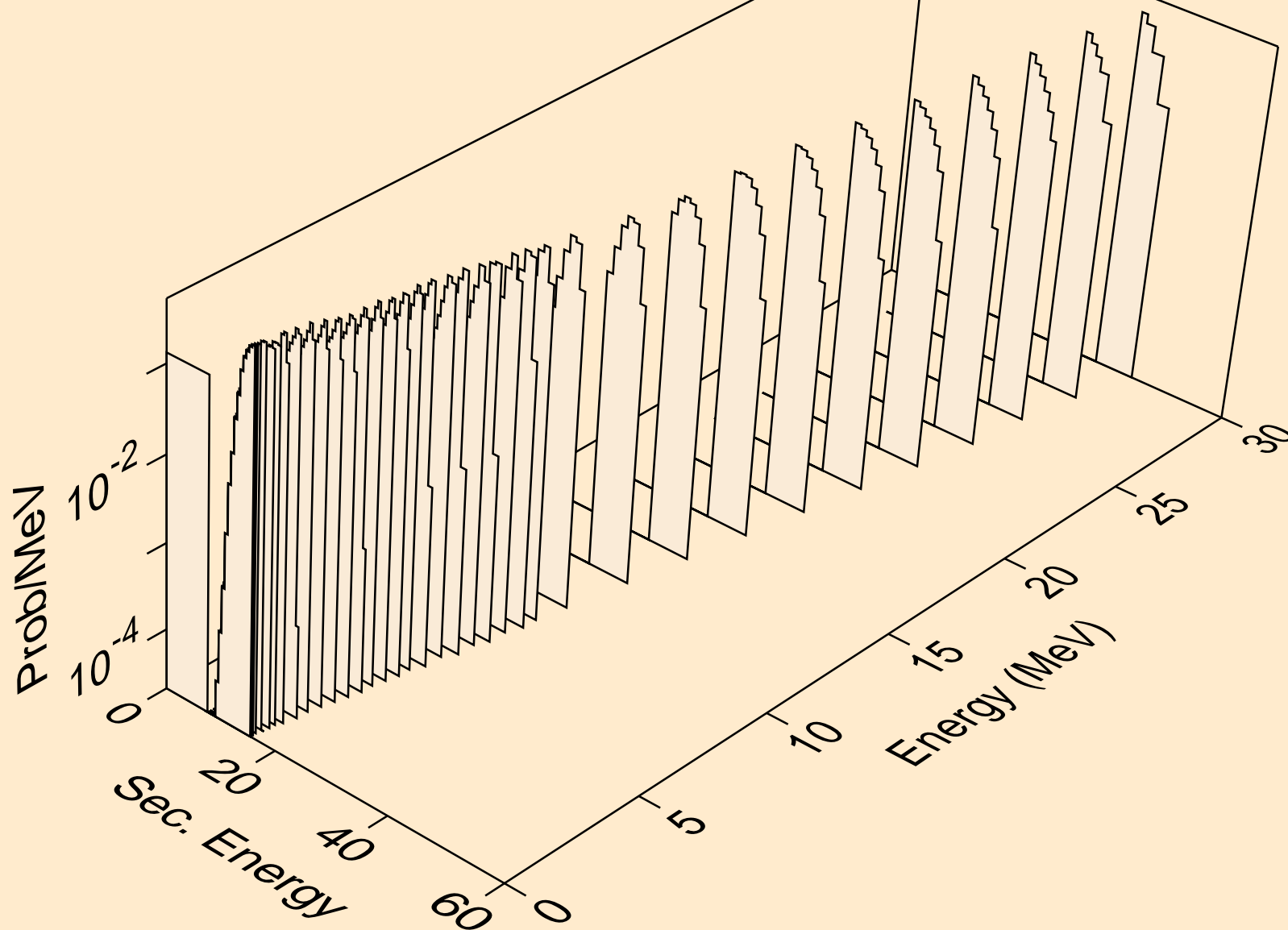
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2n)a



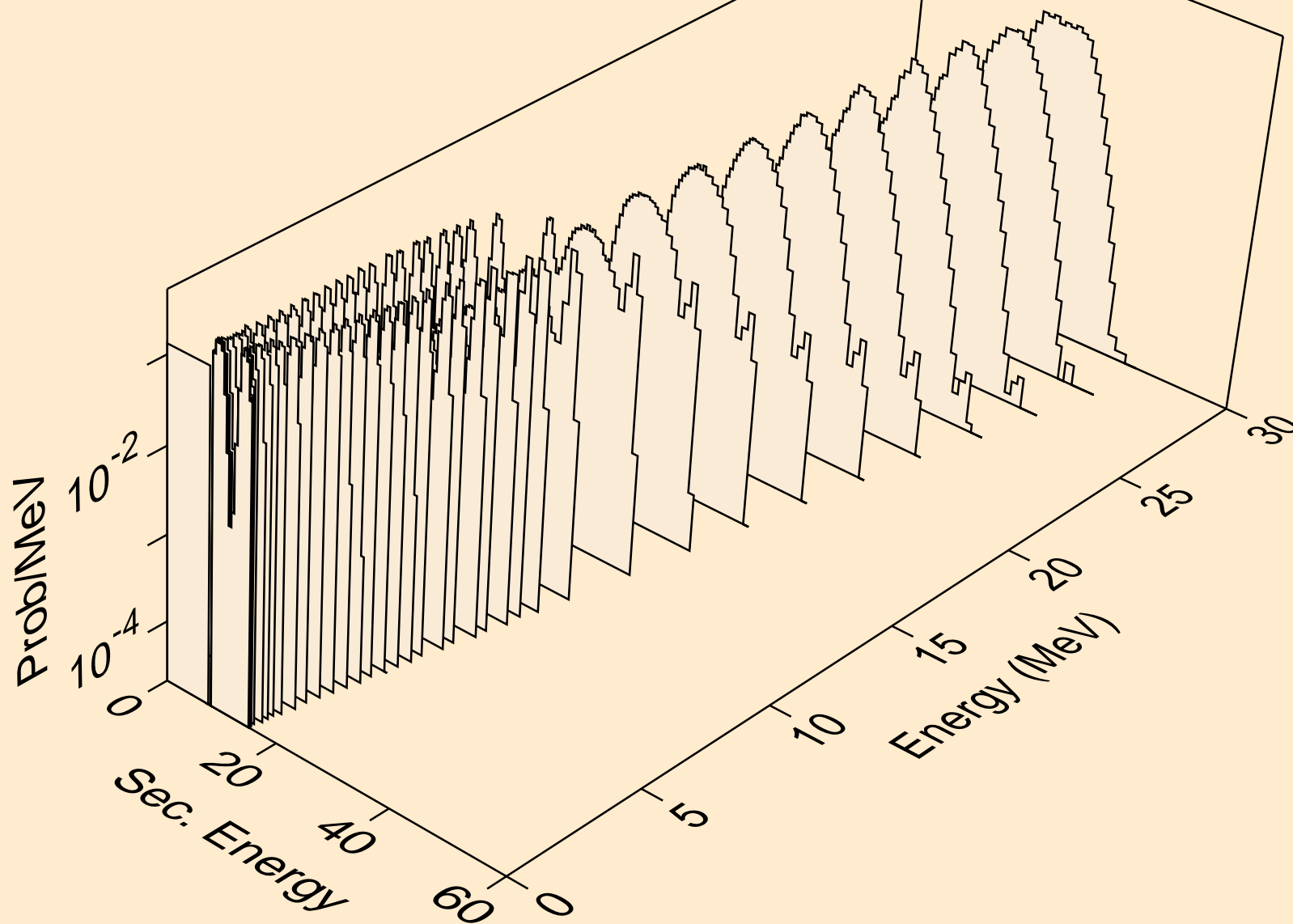
ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,3n)a



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,a)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,2a)



ES239 NEUTRON ACER TENDL-2019 LIBRARY; T=293.16K  
alphas from (n,p)

