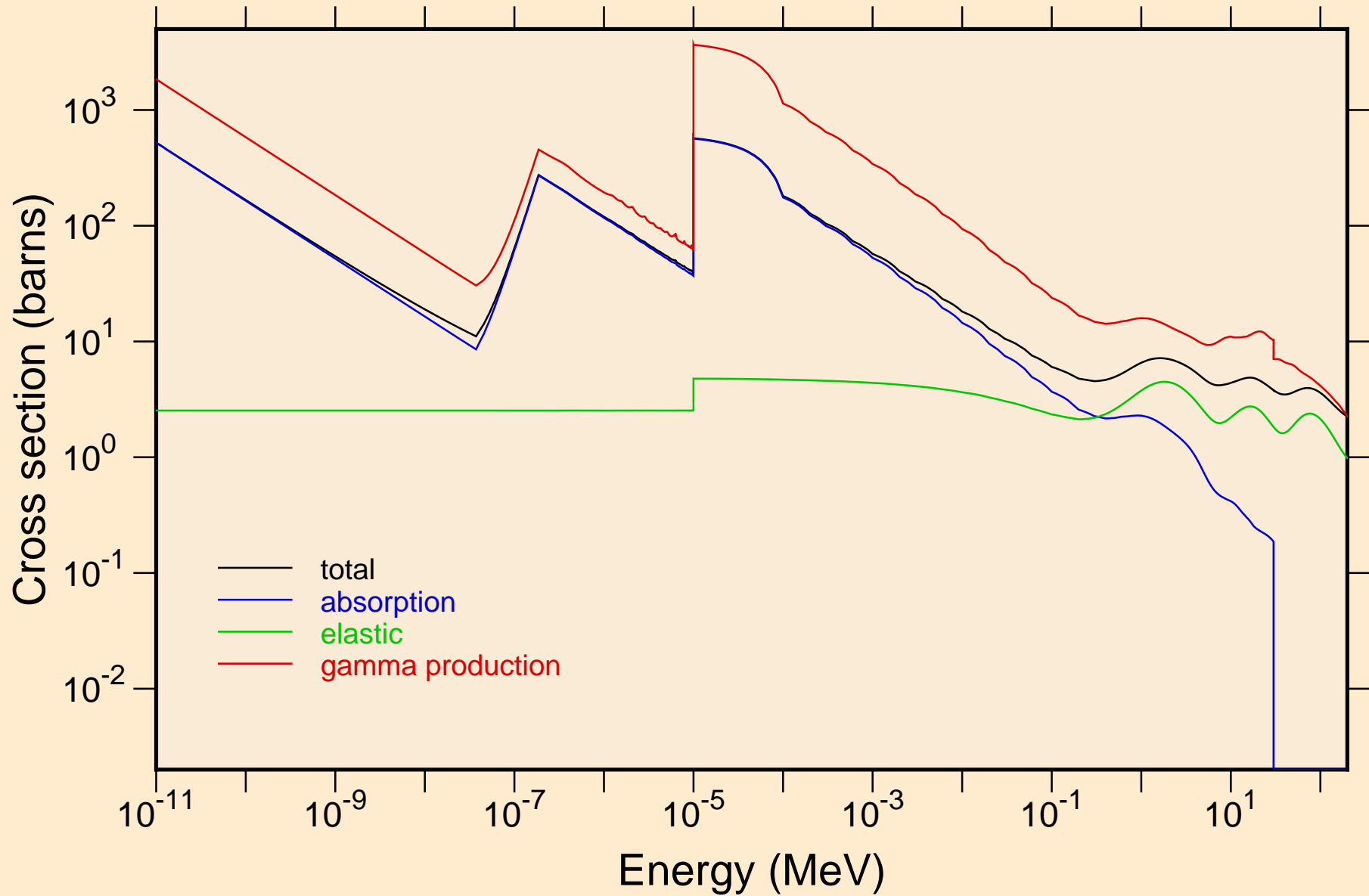


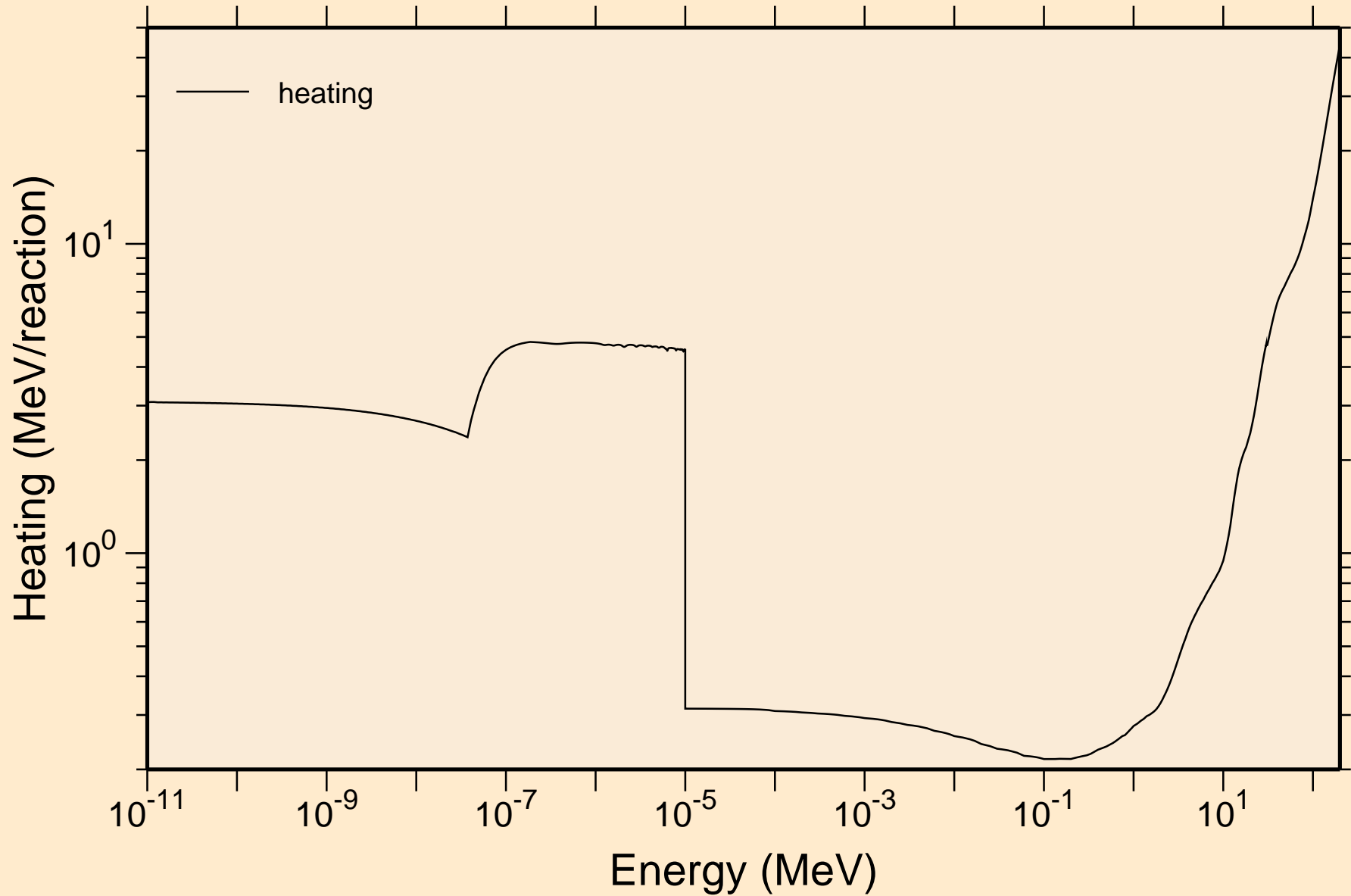
# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

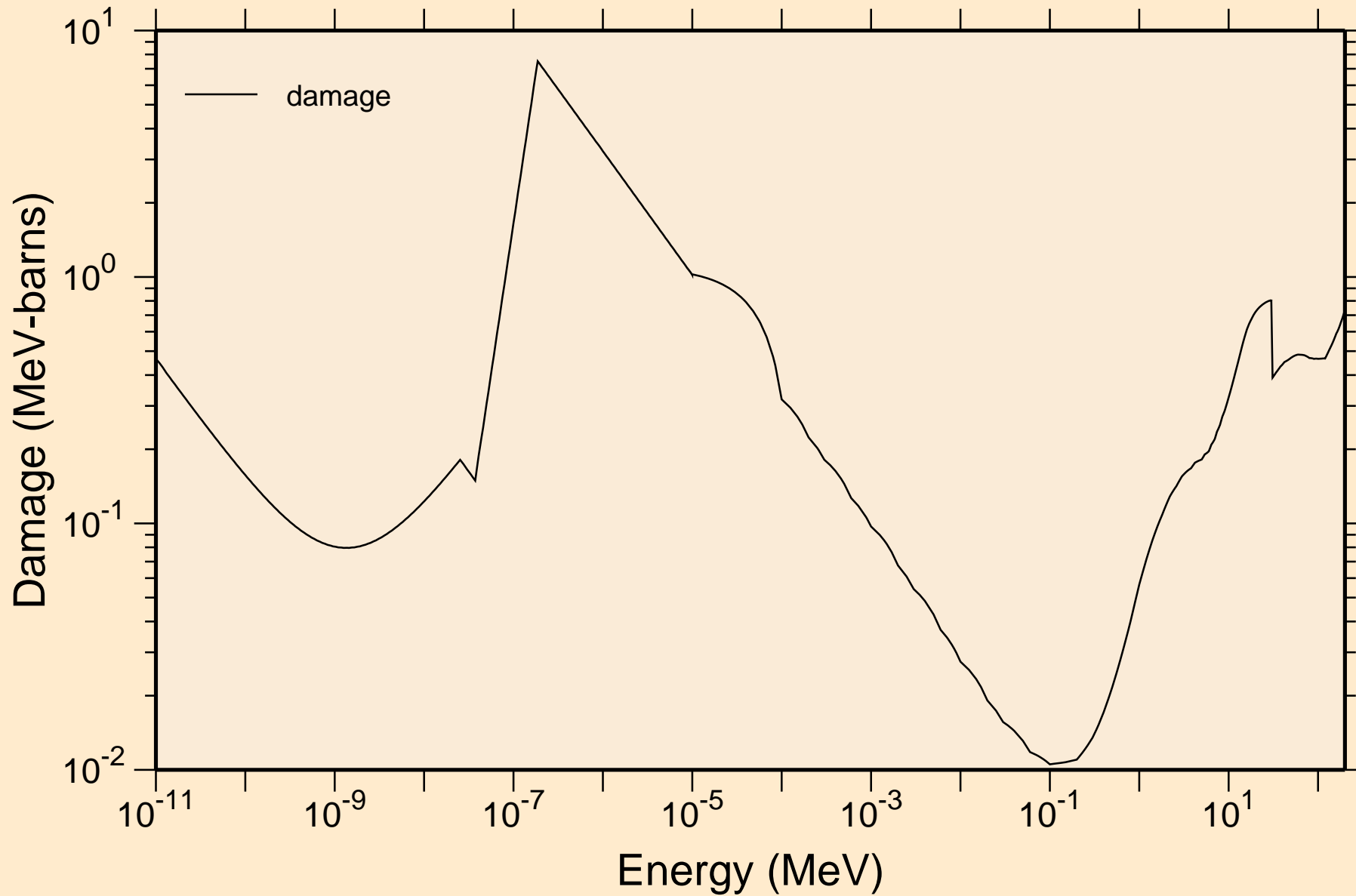


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

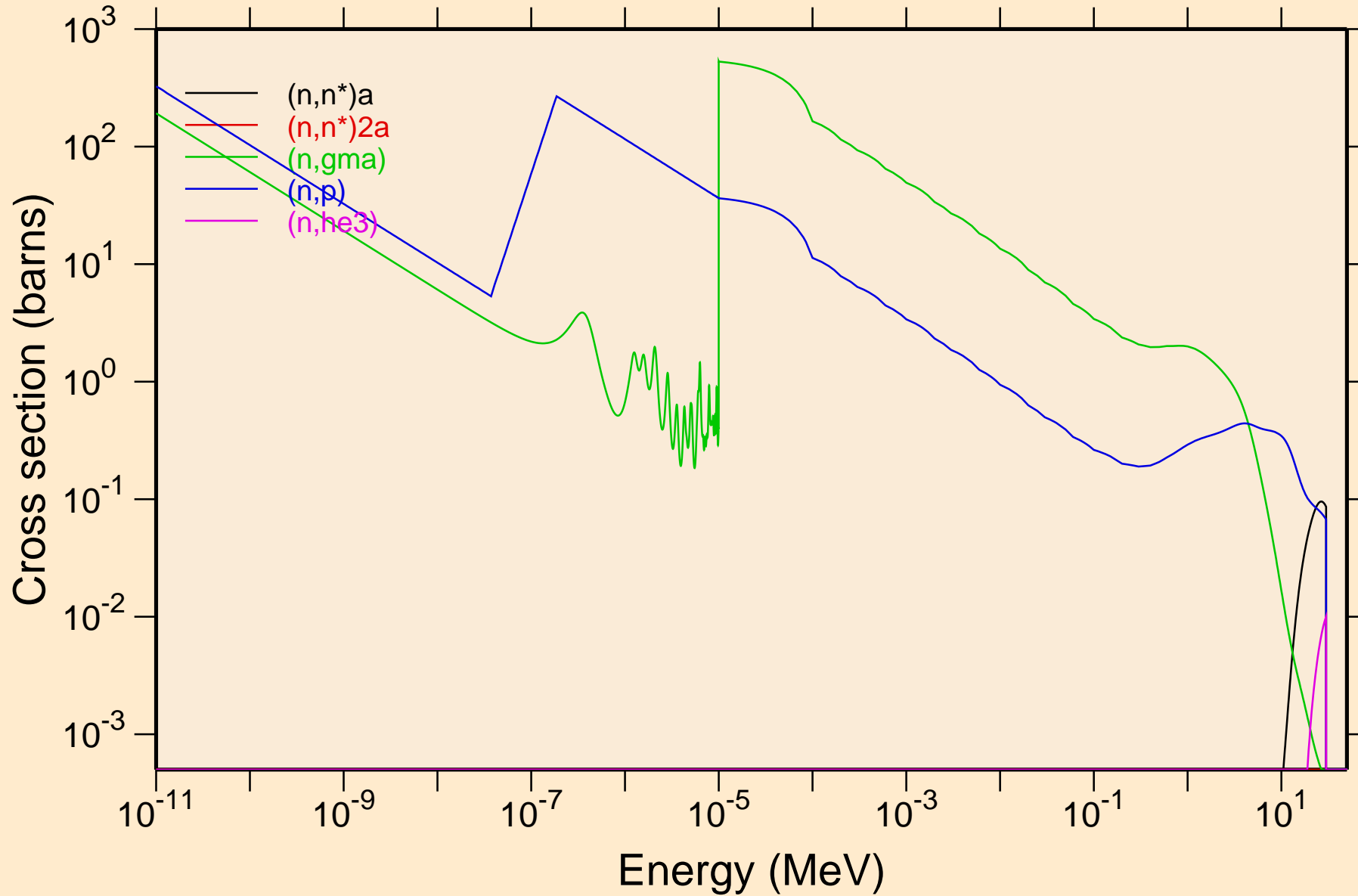


SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

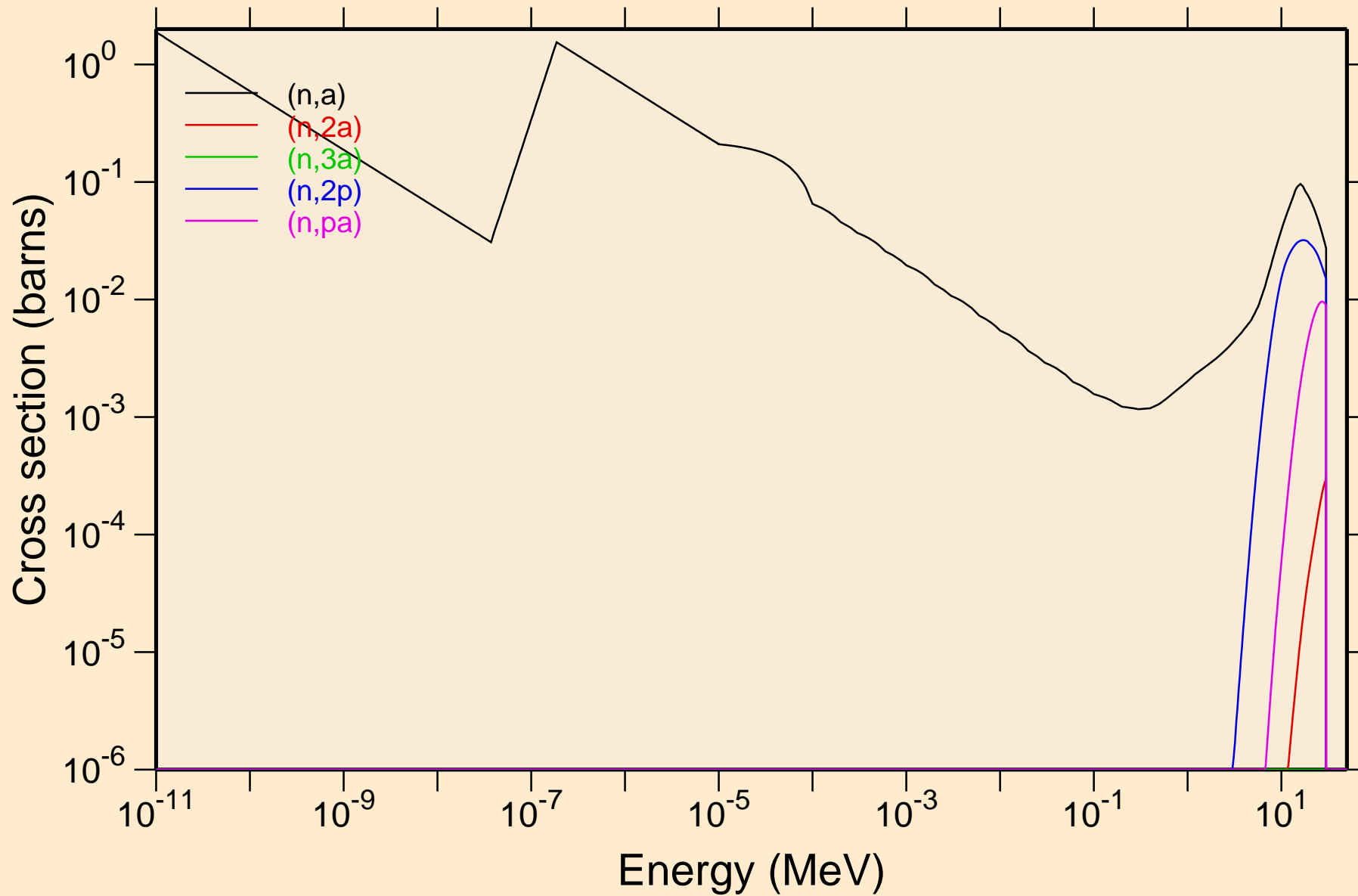


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

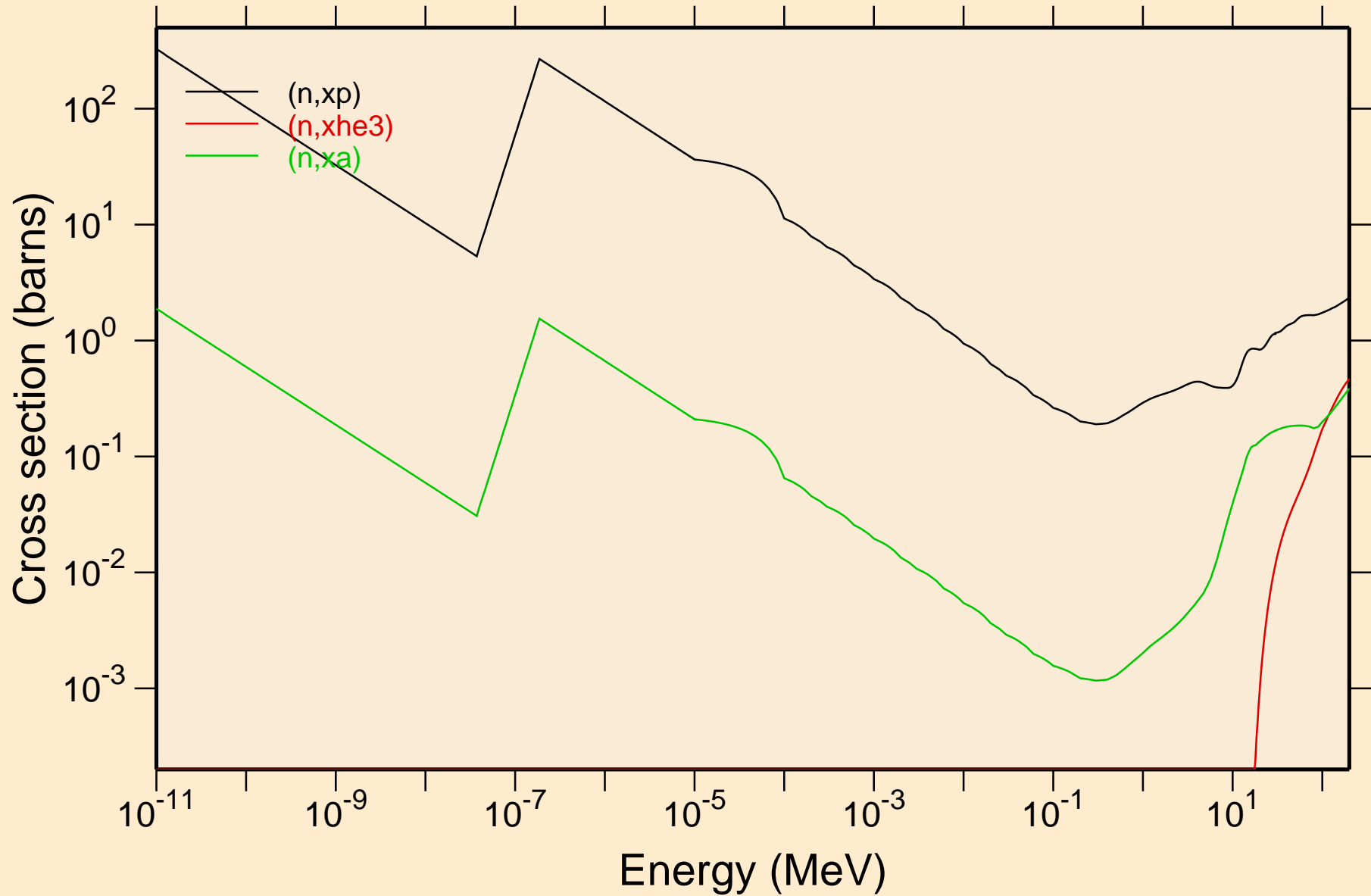
## Non-threshold reactions



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions

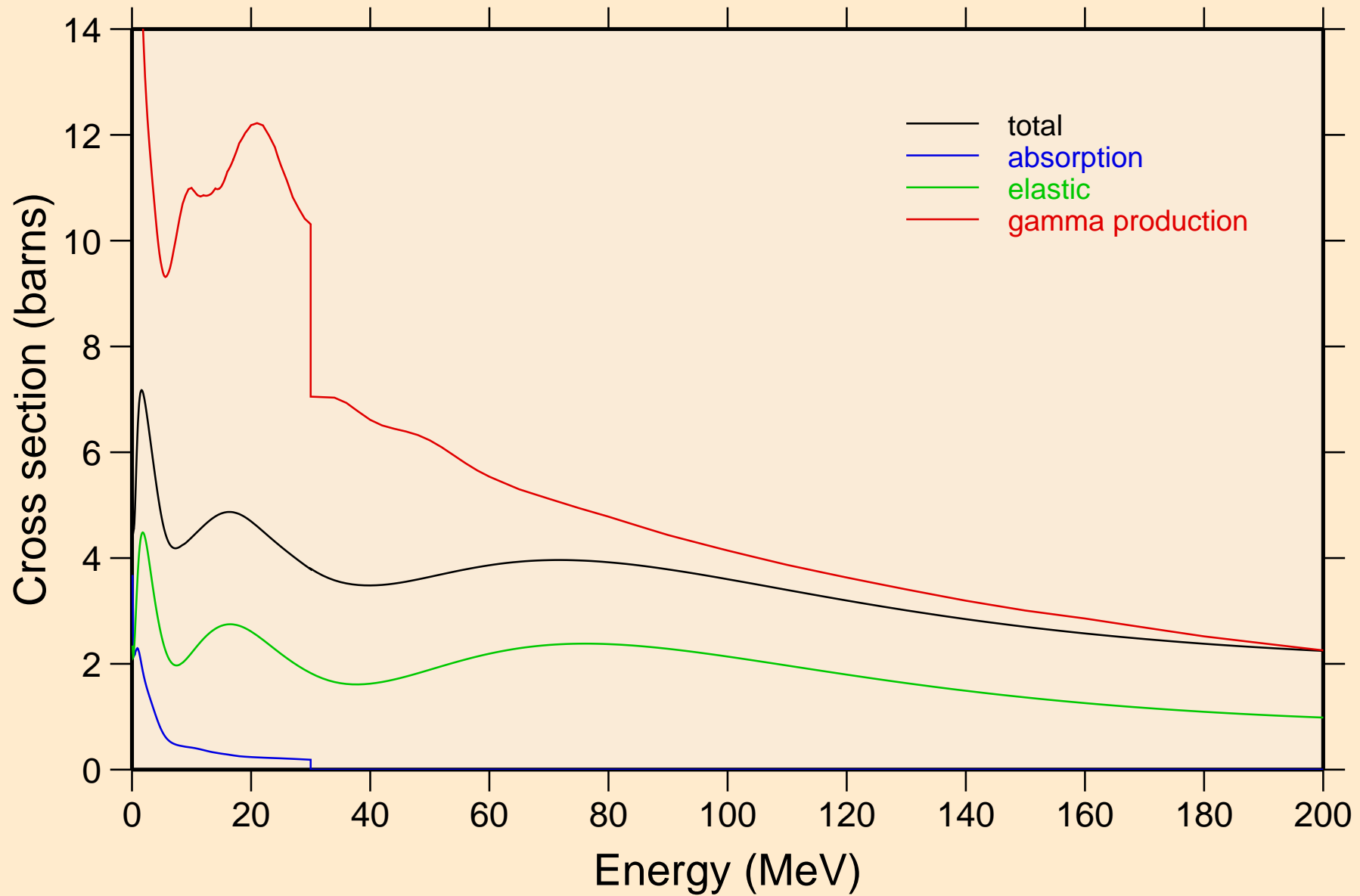


SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



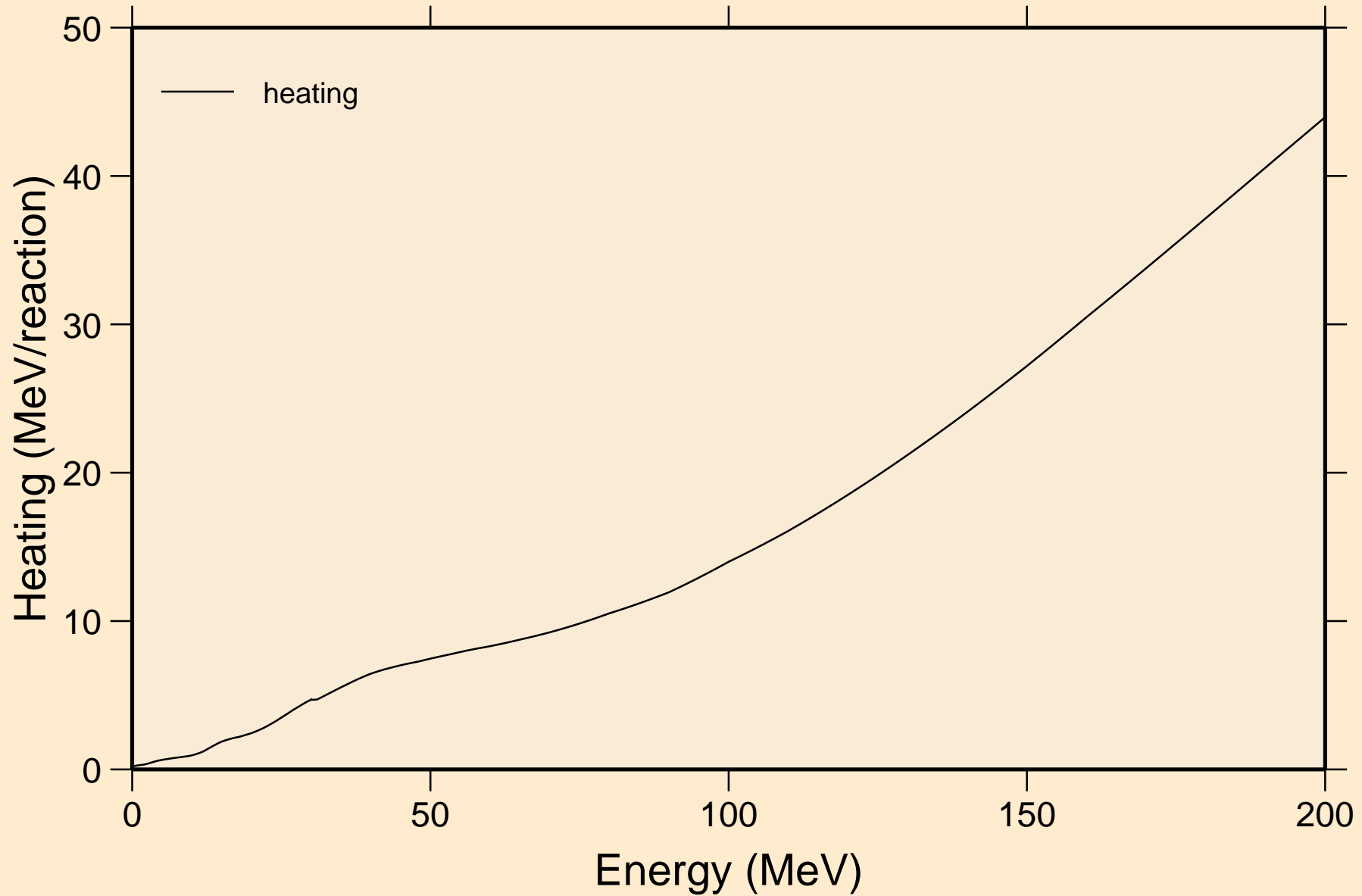
# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections

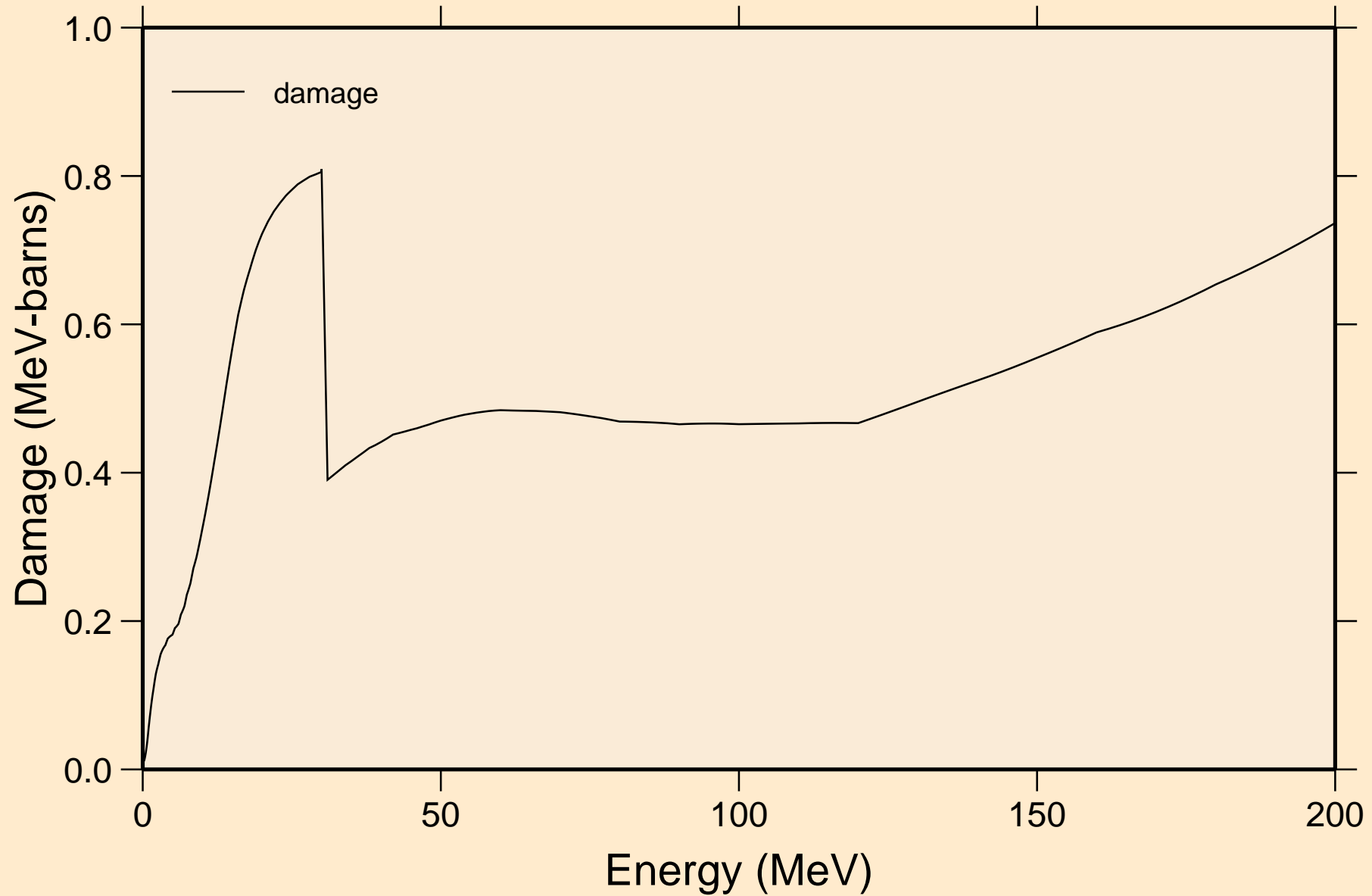


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

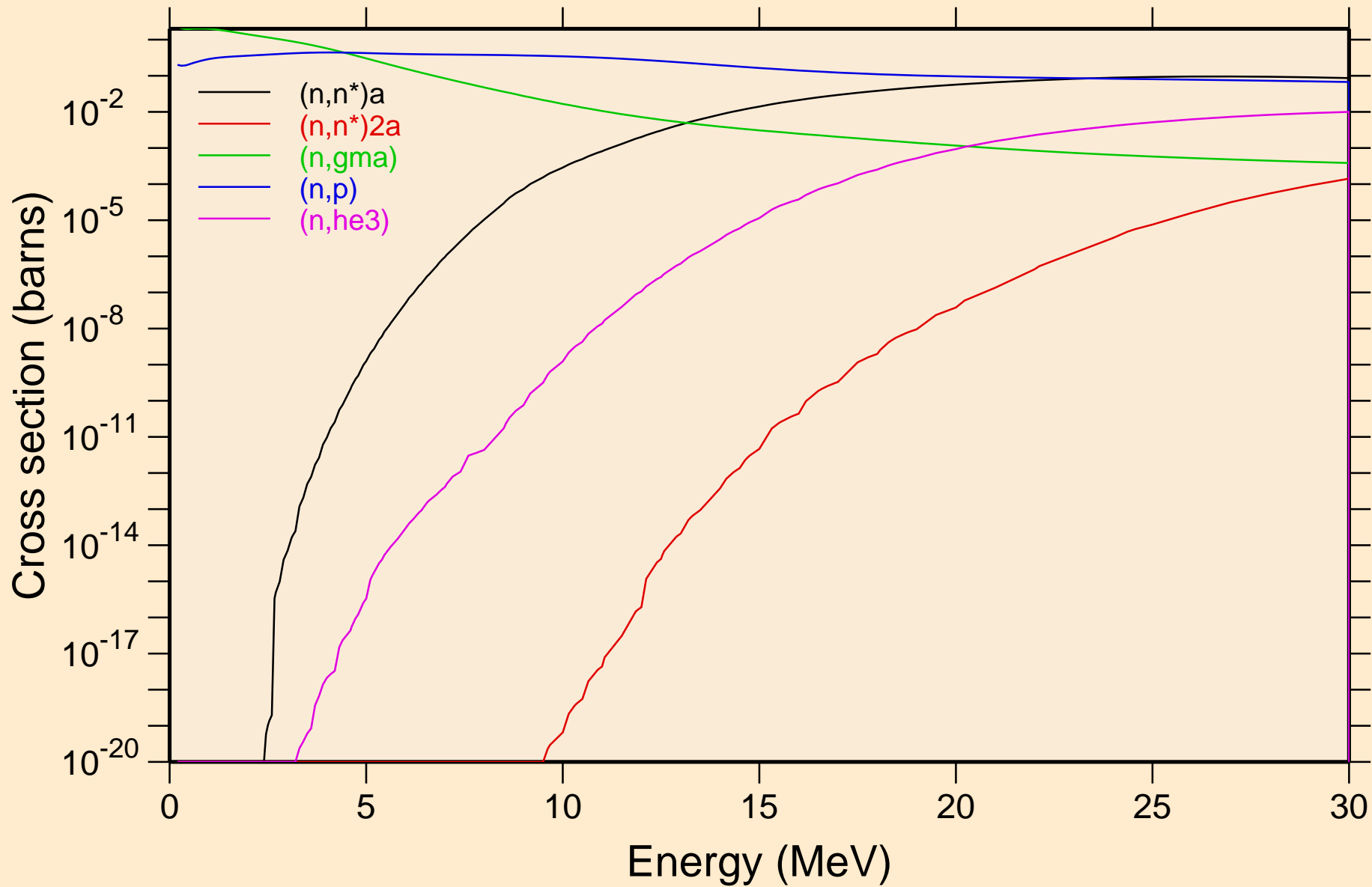


SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Damage

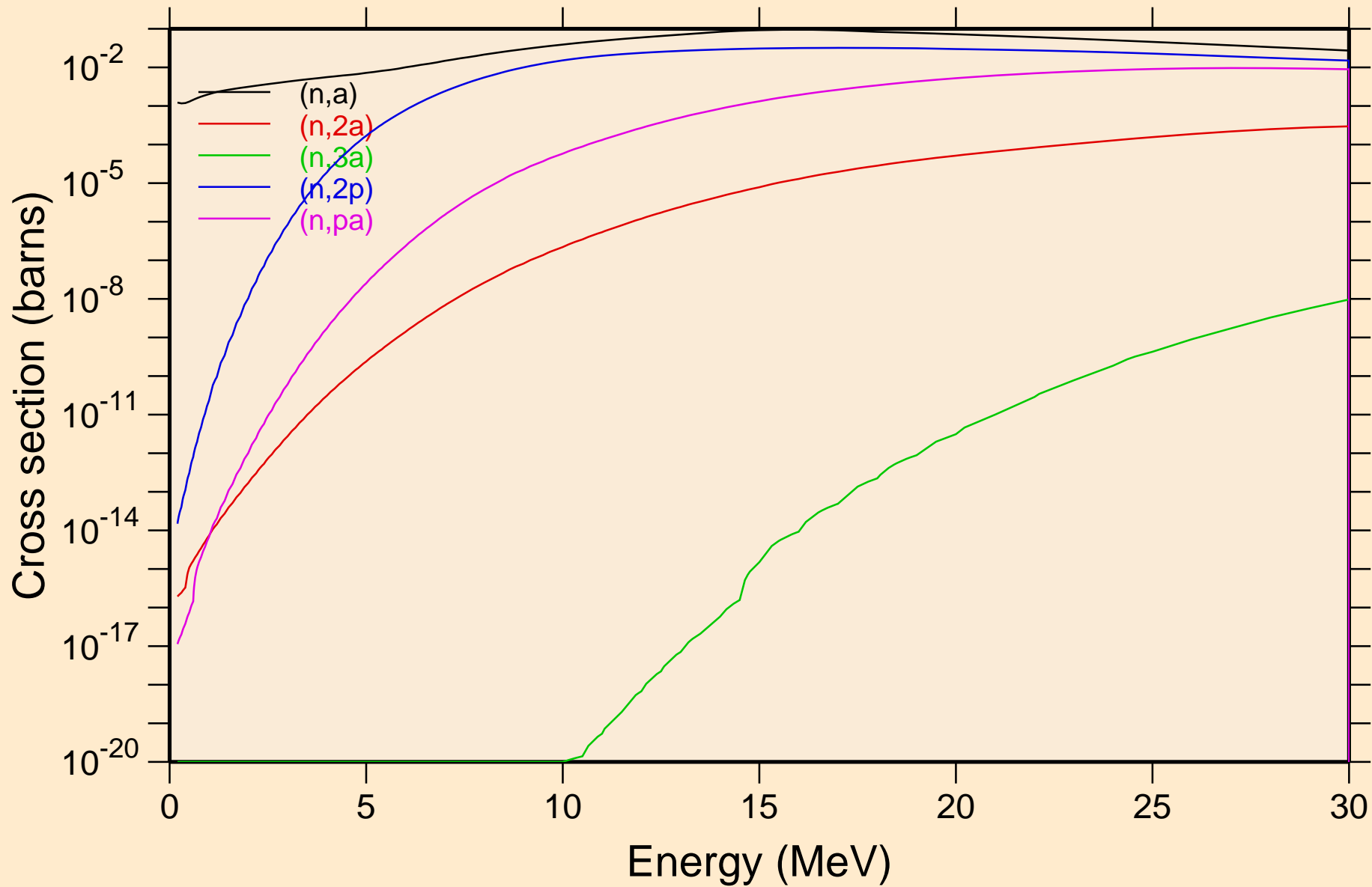


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

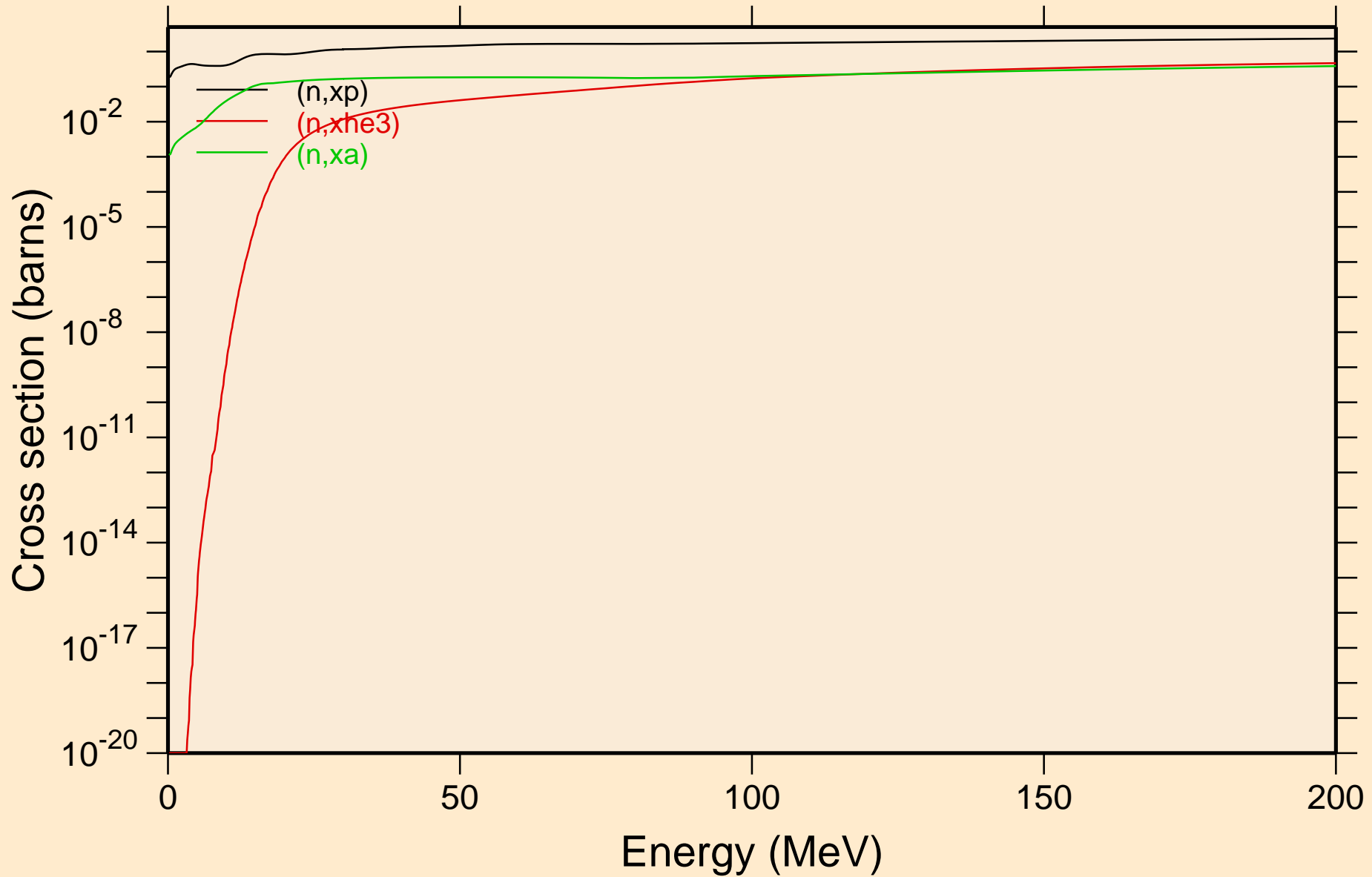
## Non-threshold reactions



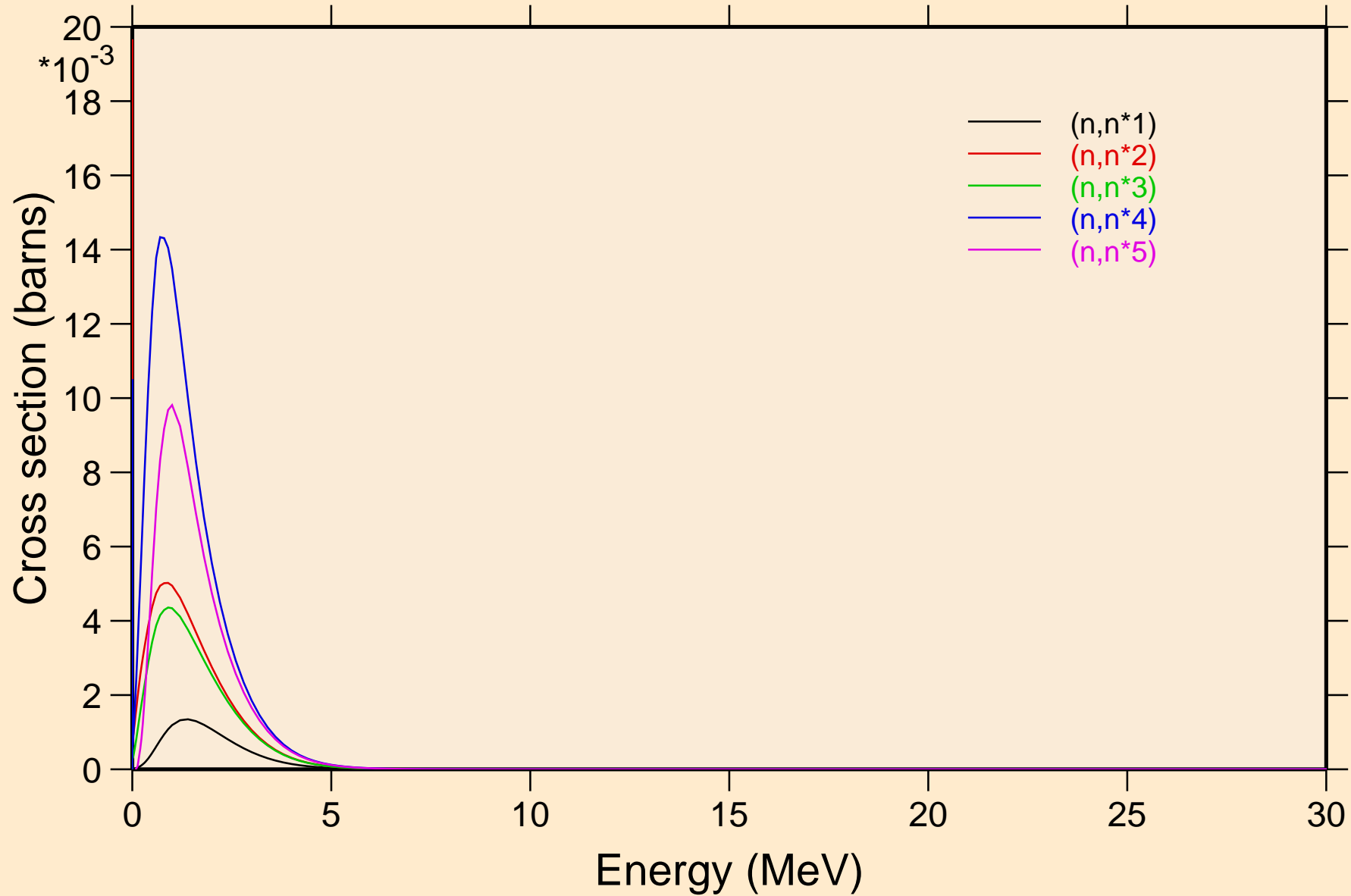
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



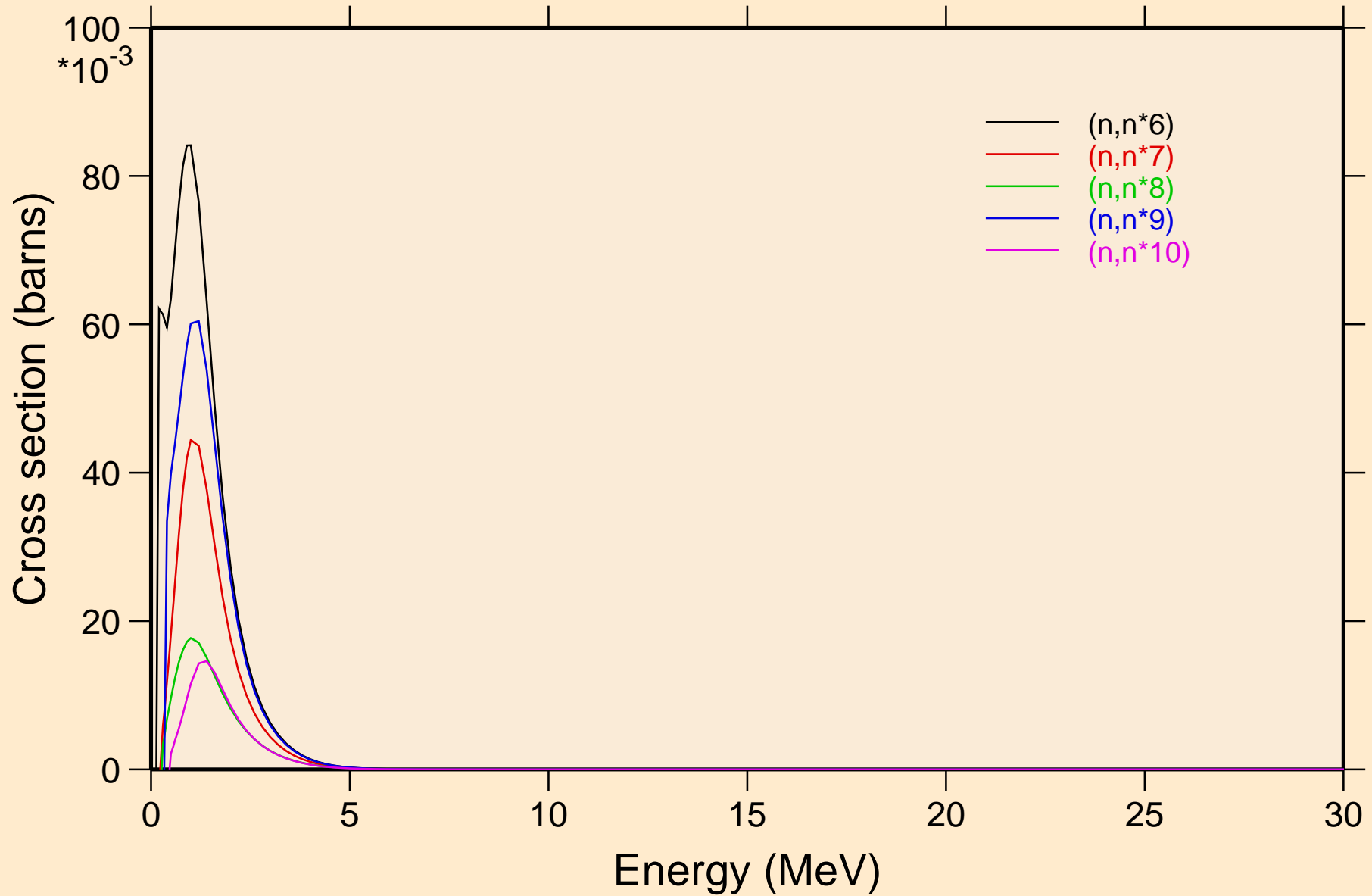
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



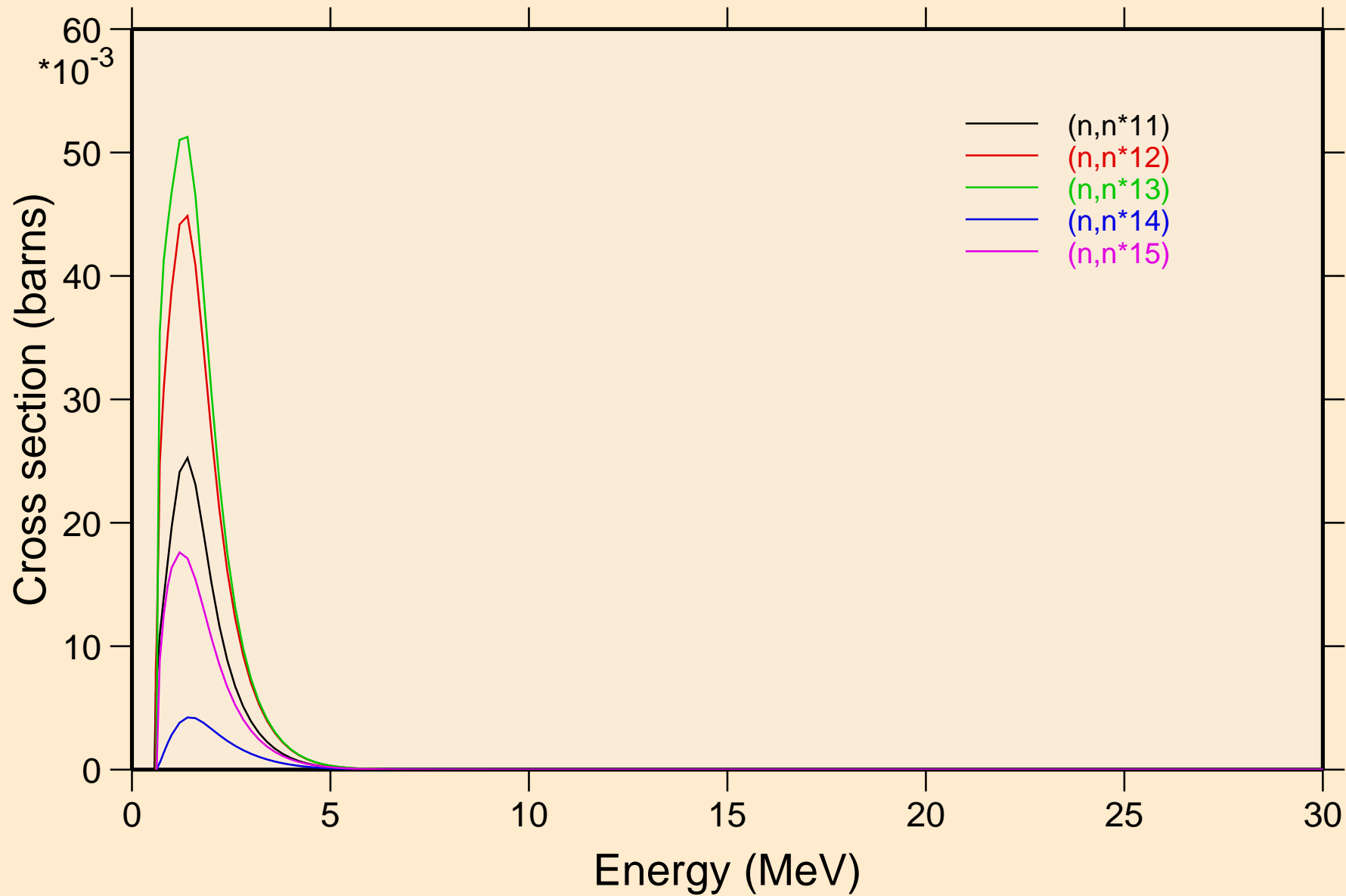
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



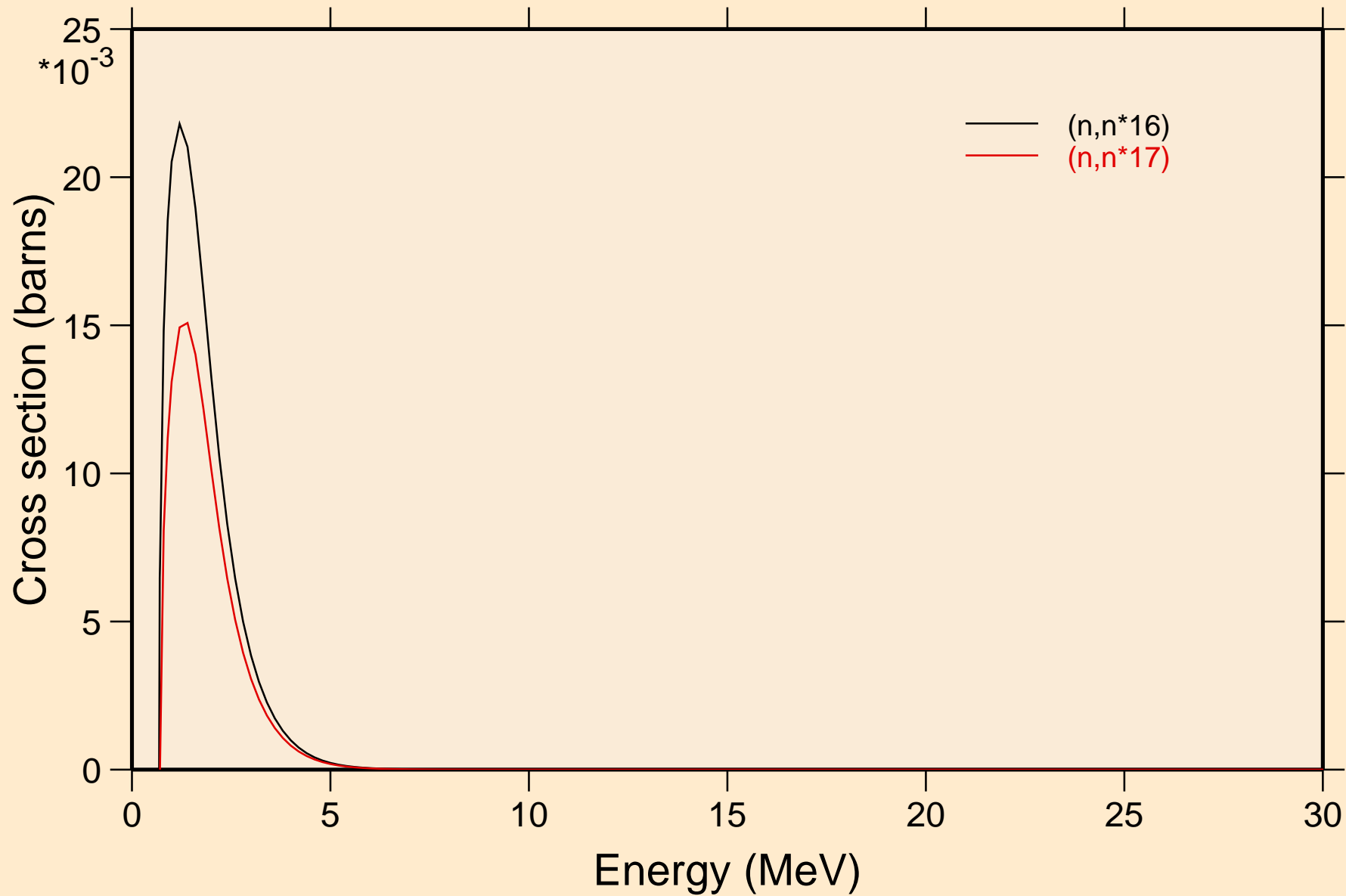
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

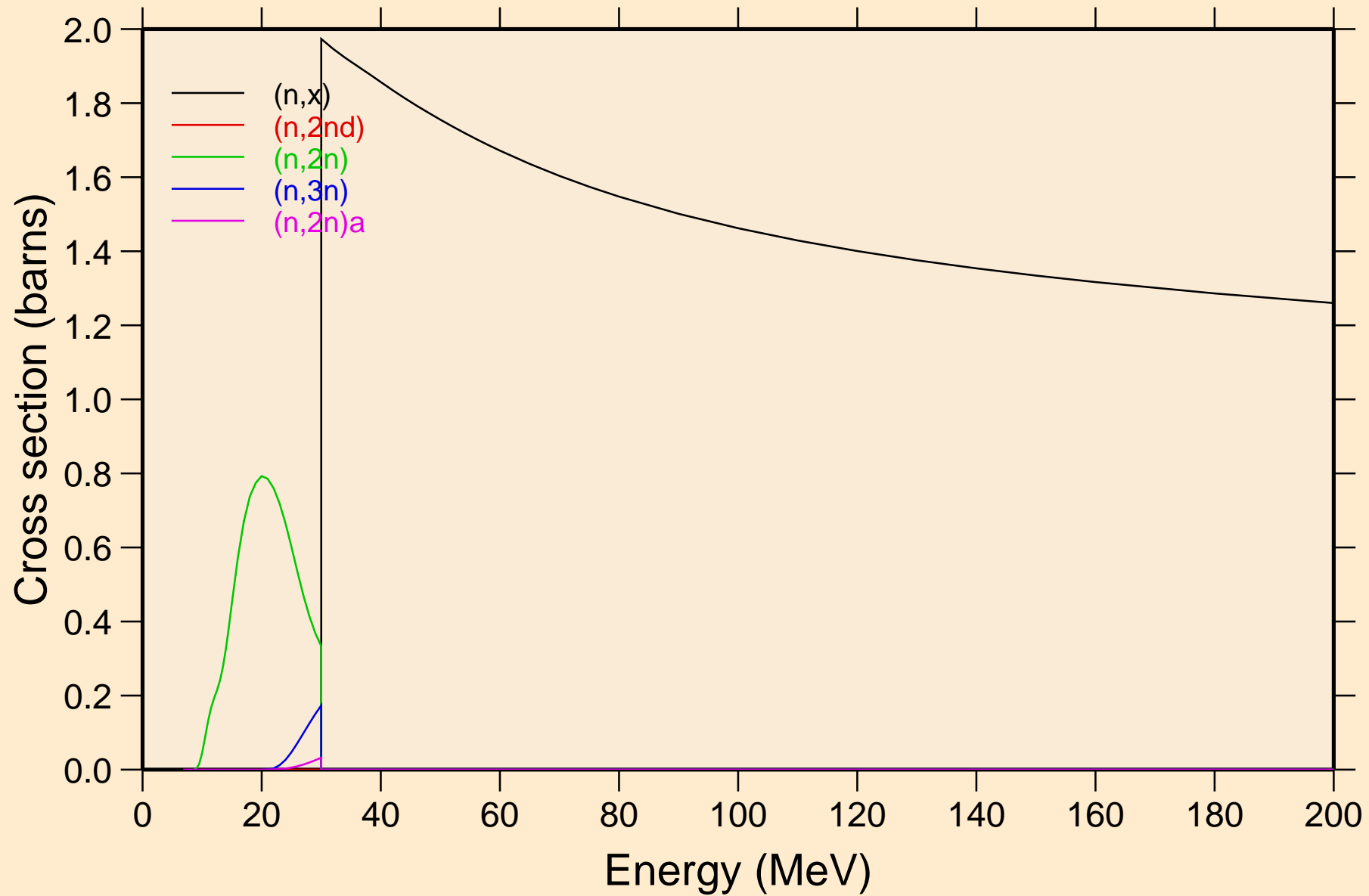


SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels

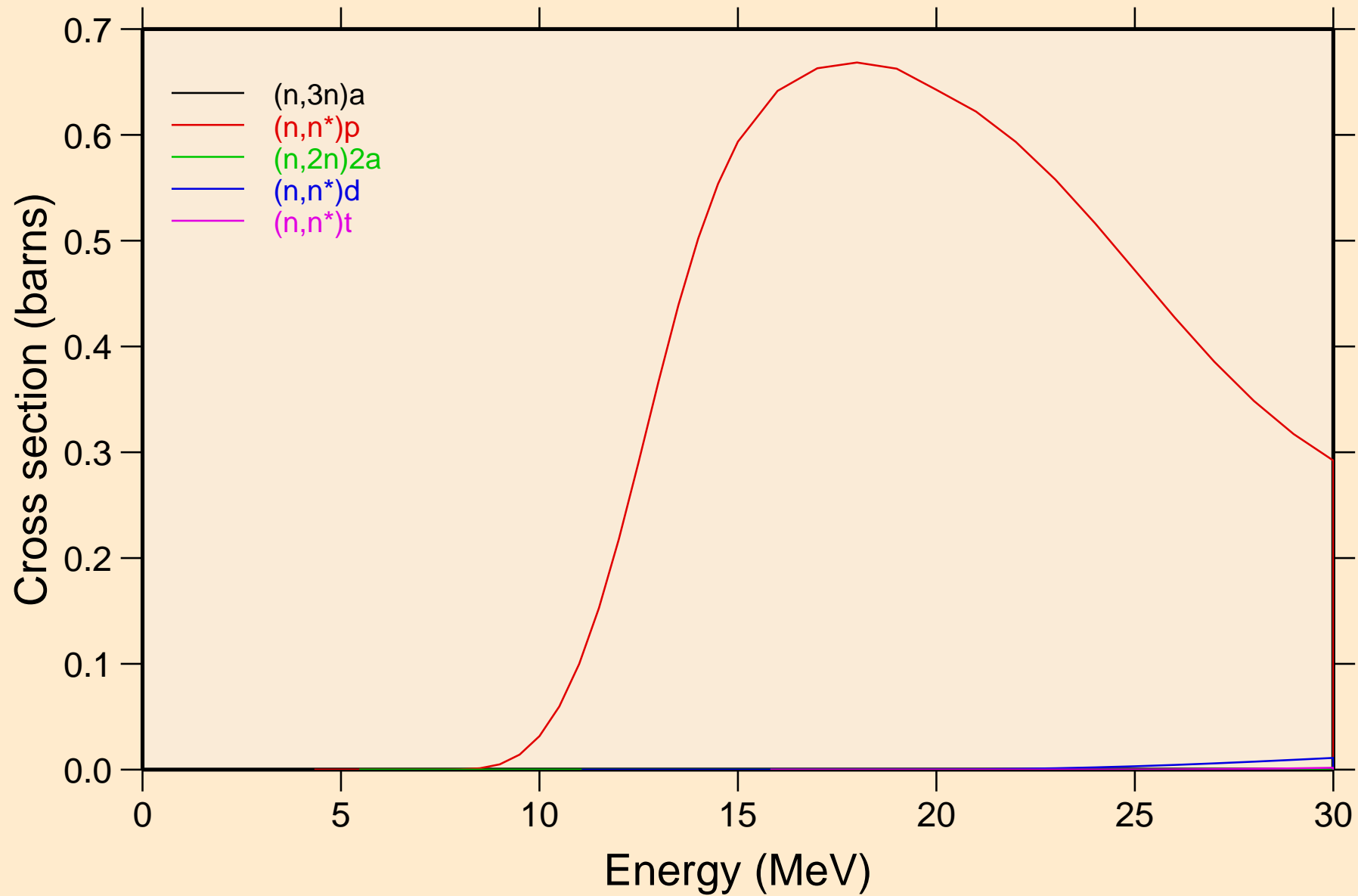


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

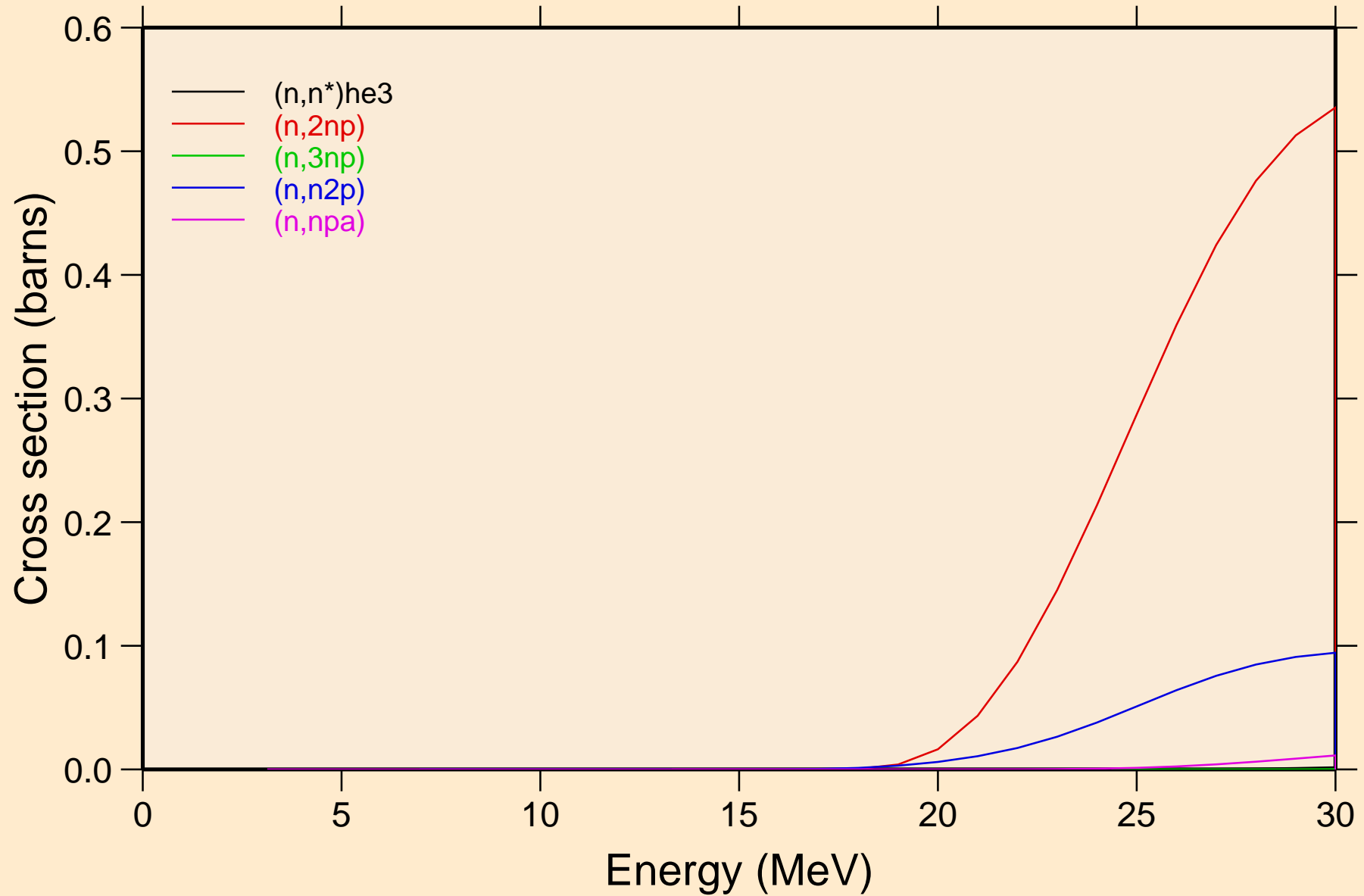
## Threshold reactions



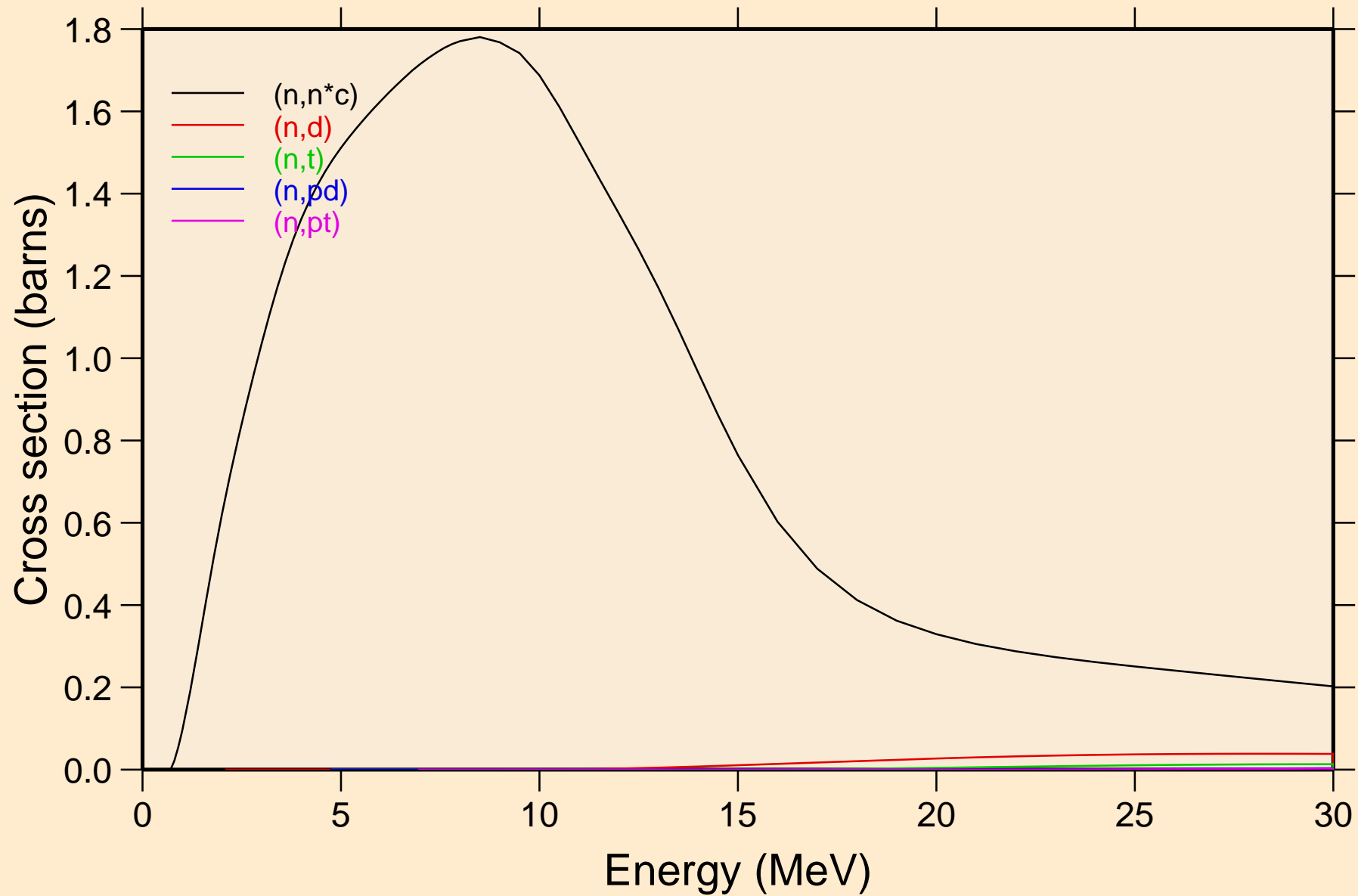
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



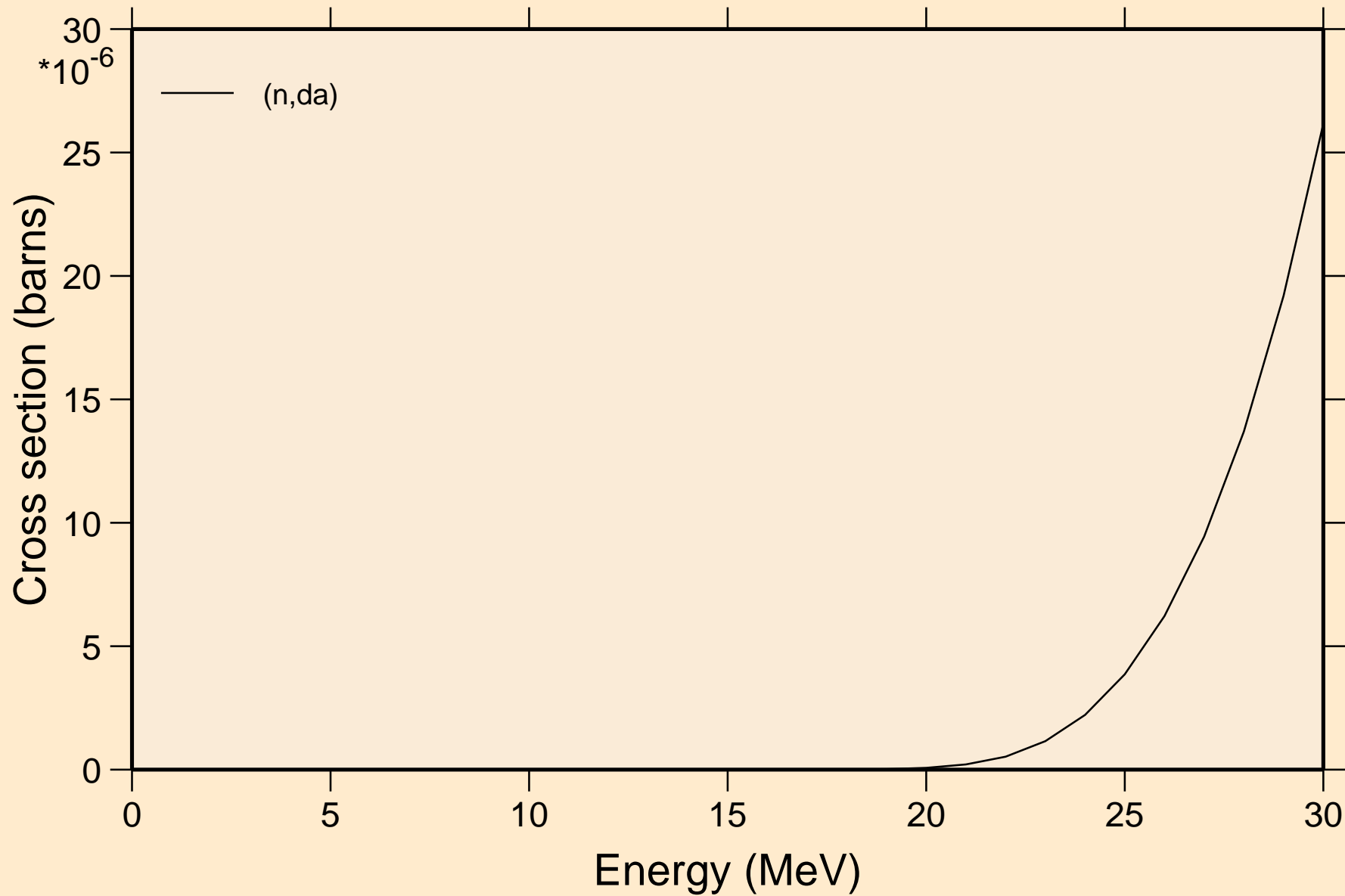
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



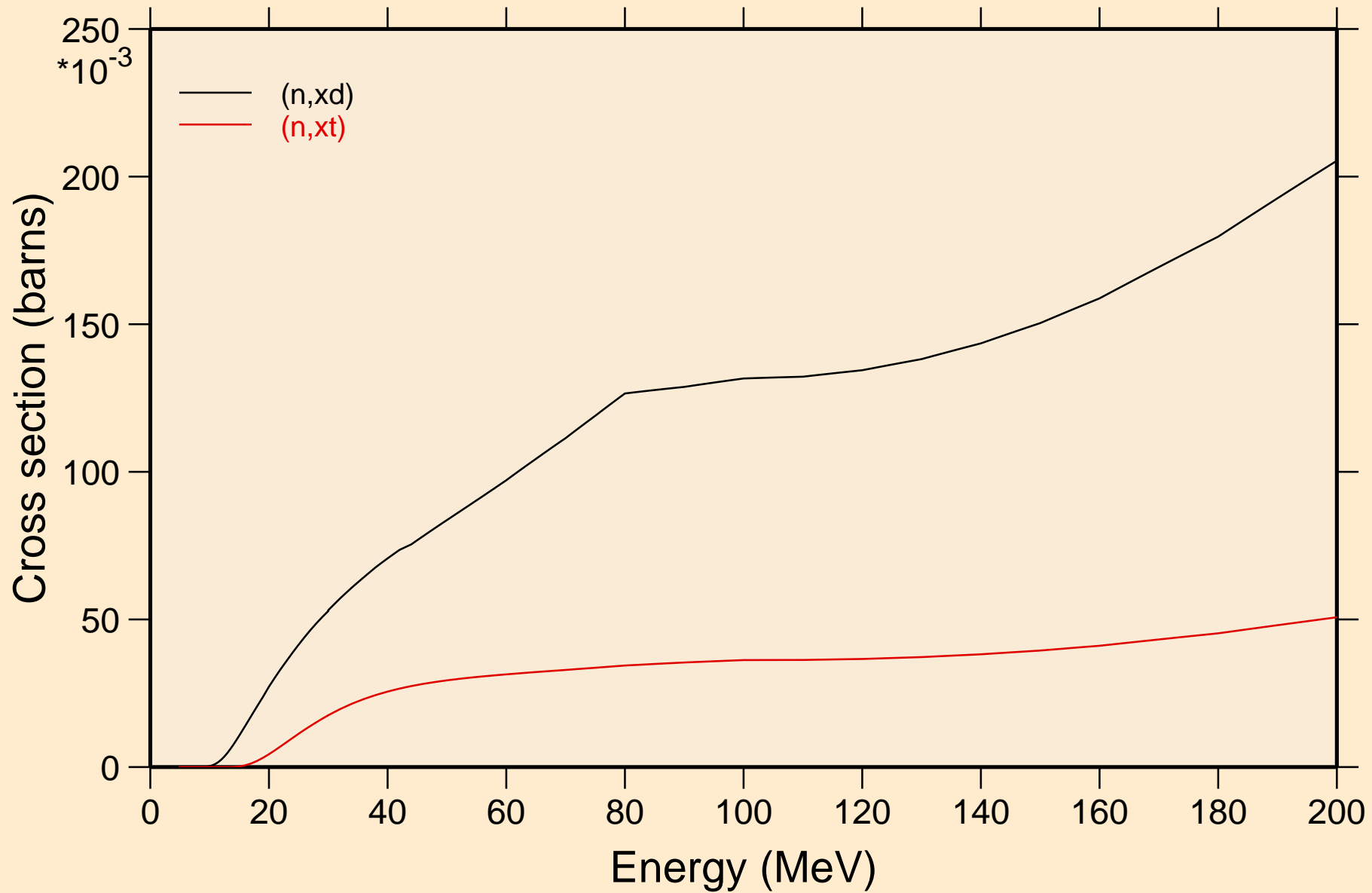
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



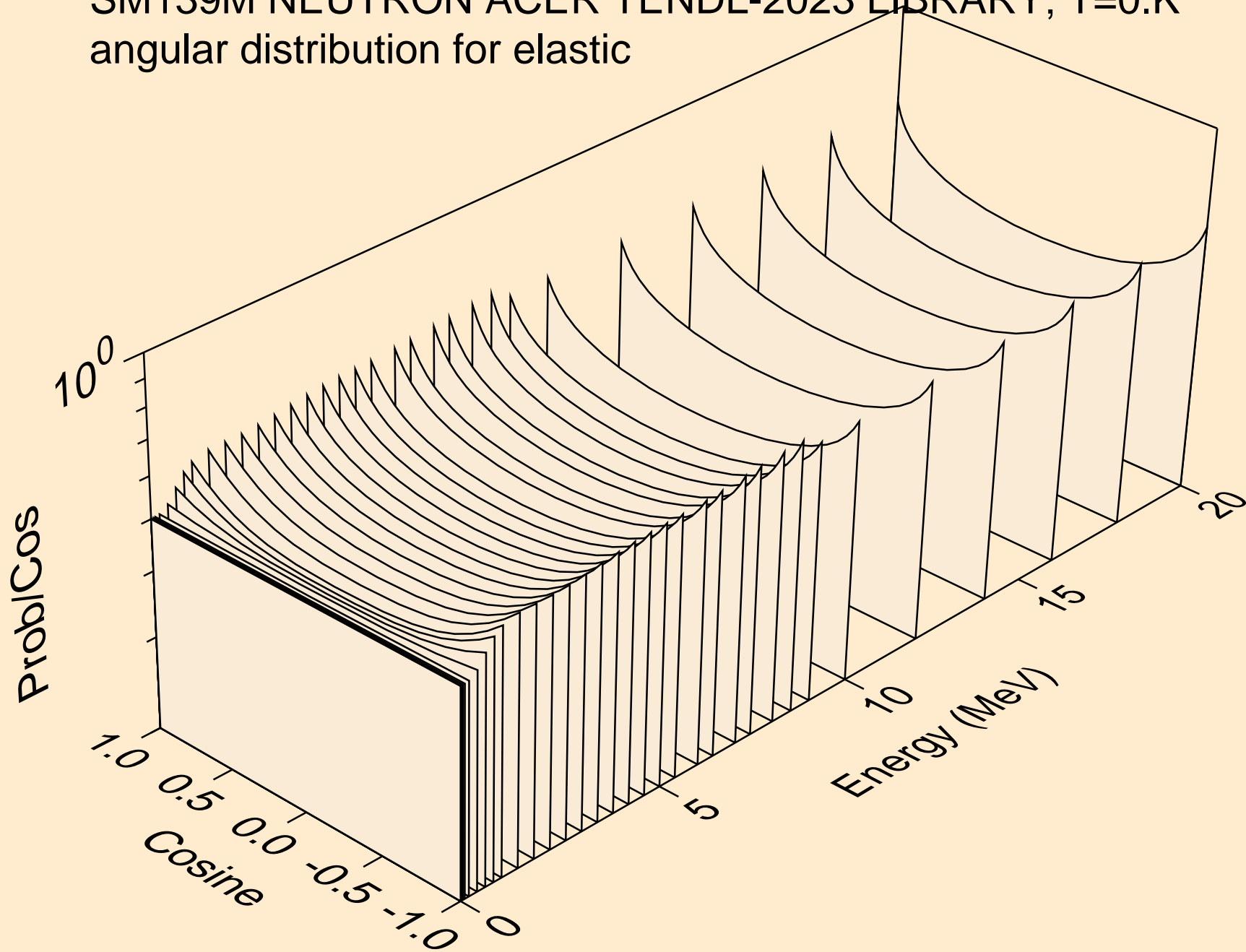
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



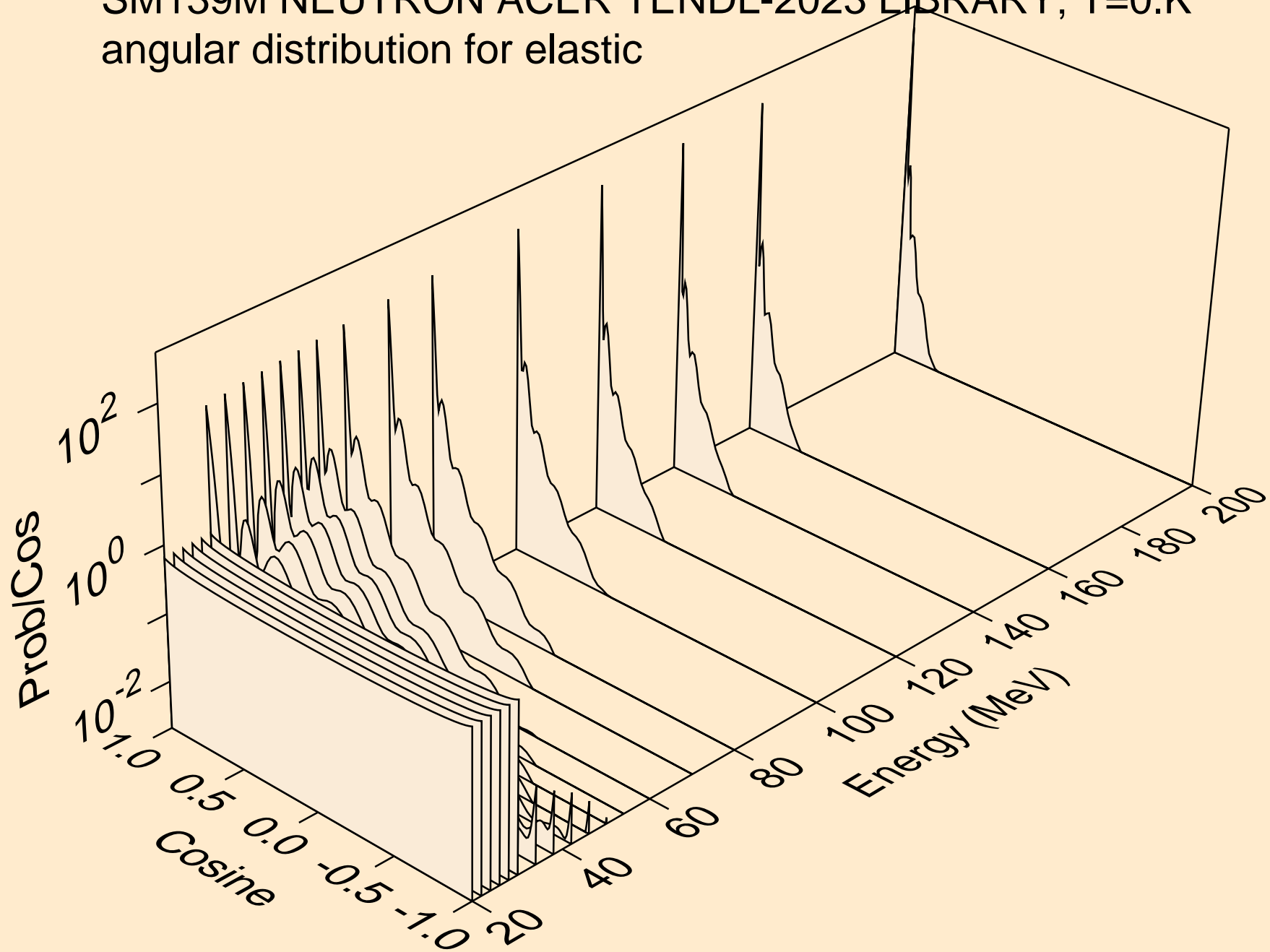
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



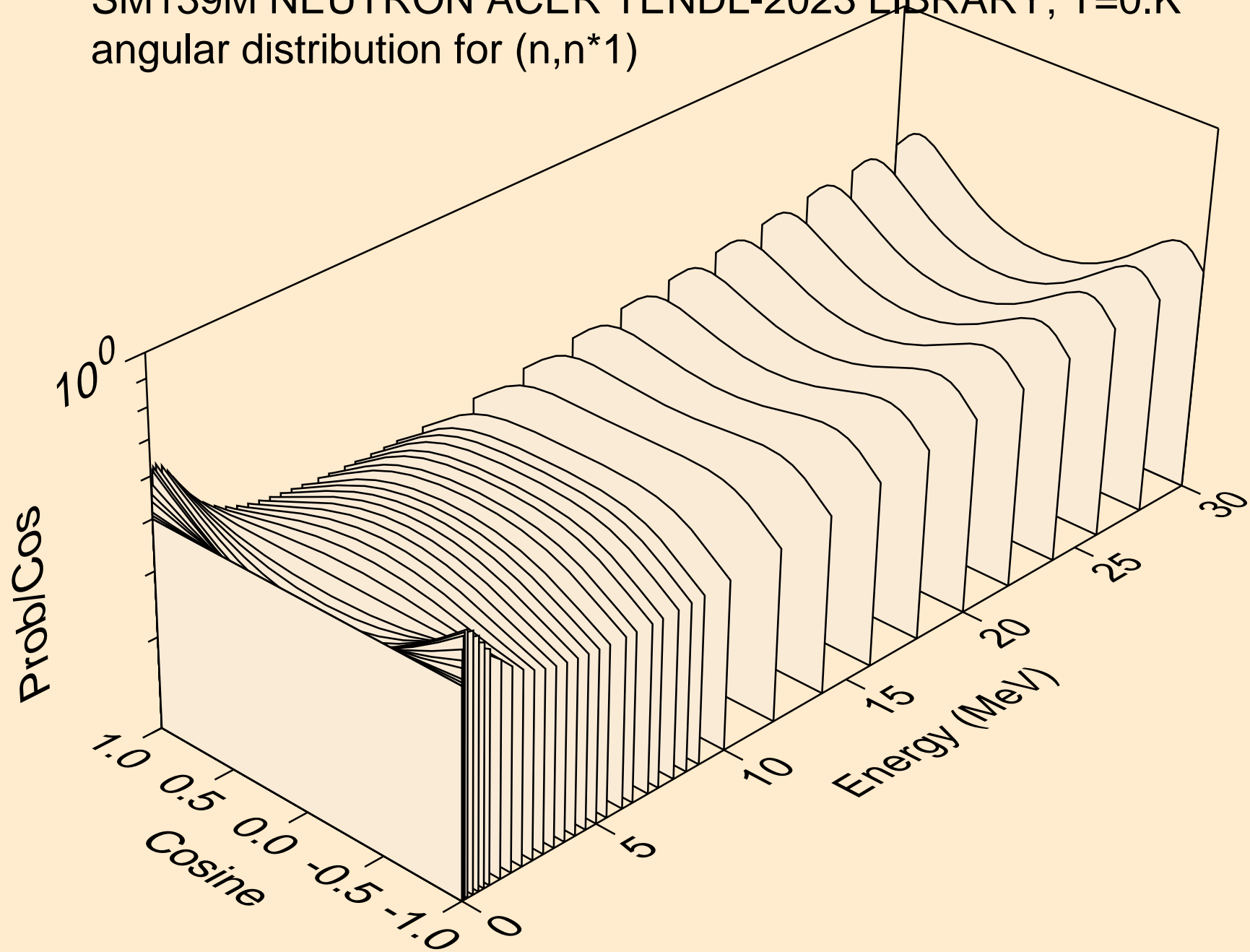
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



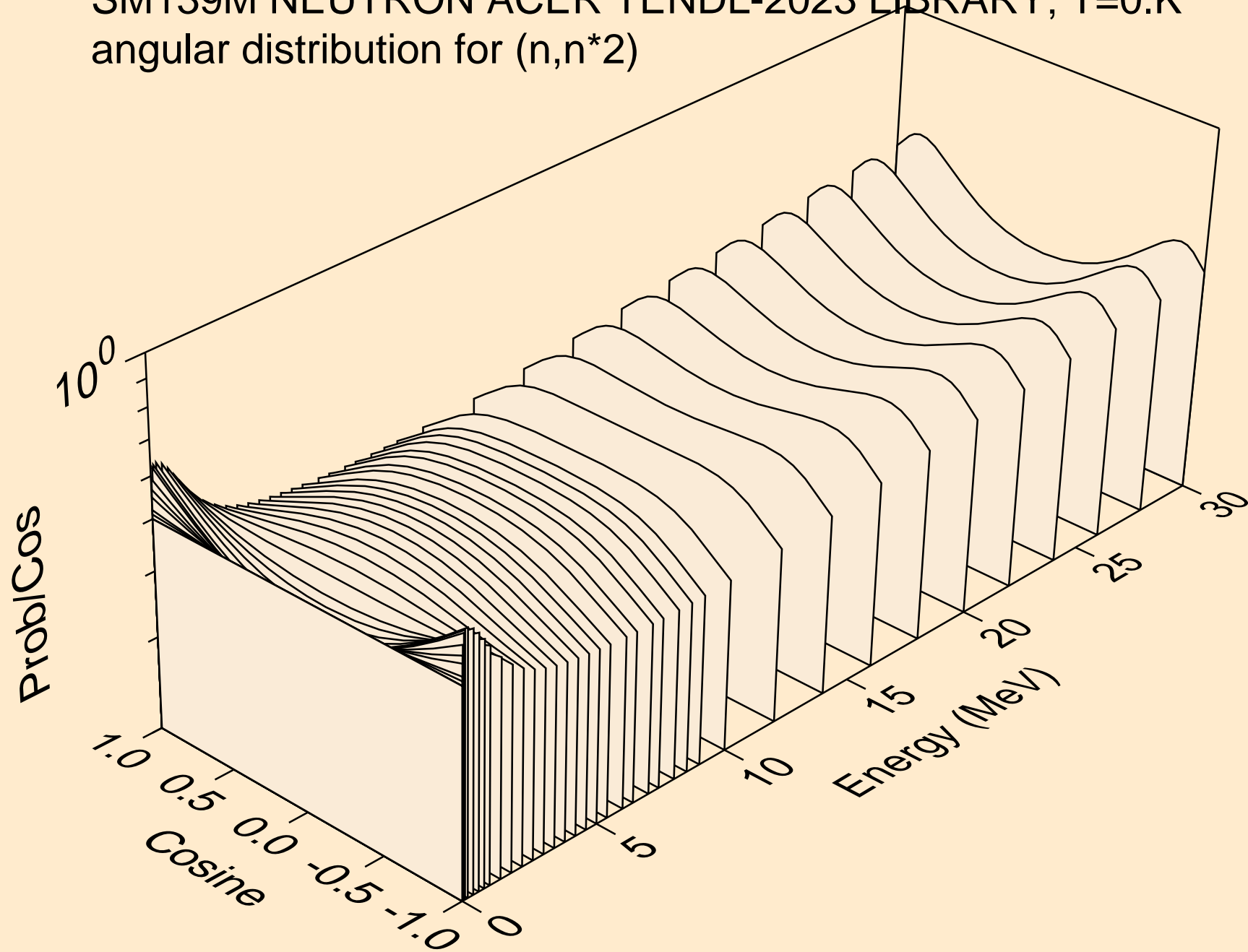
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



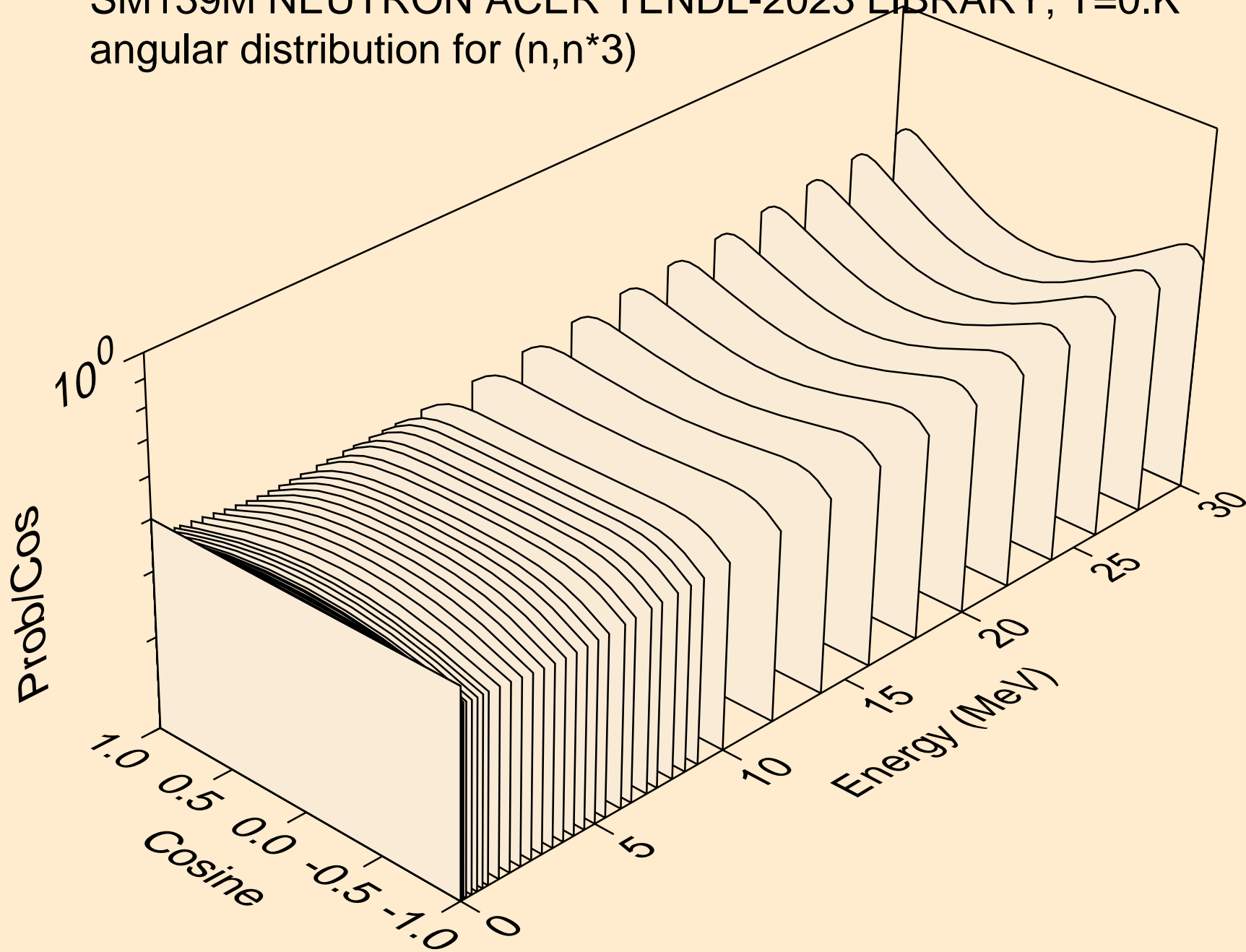
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)



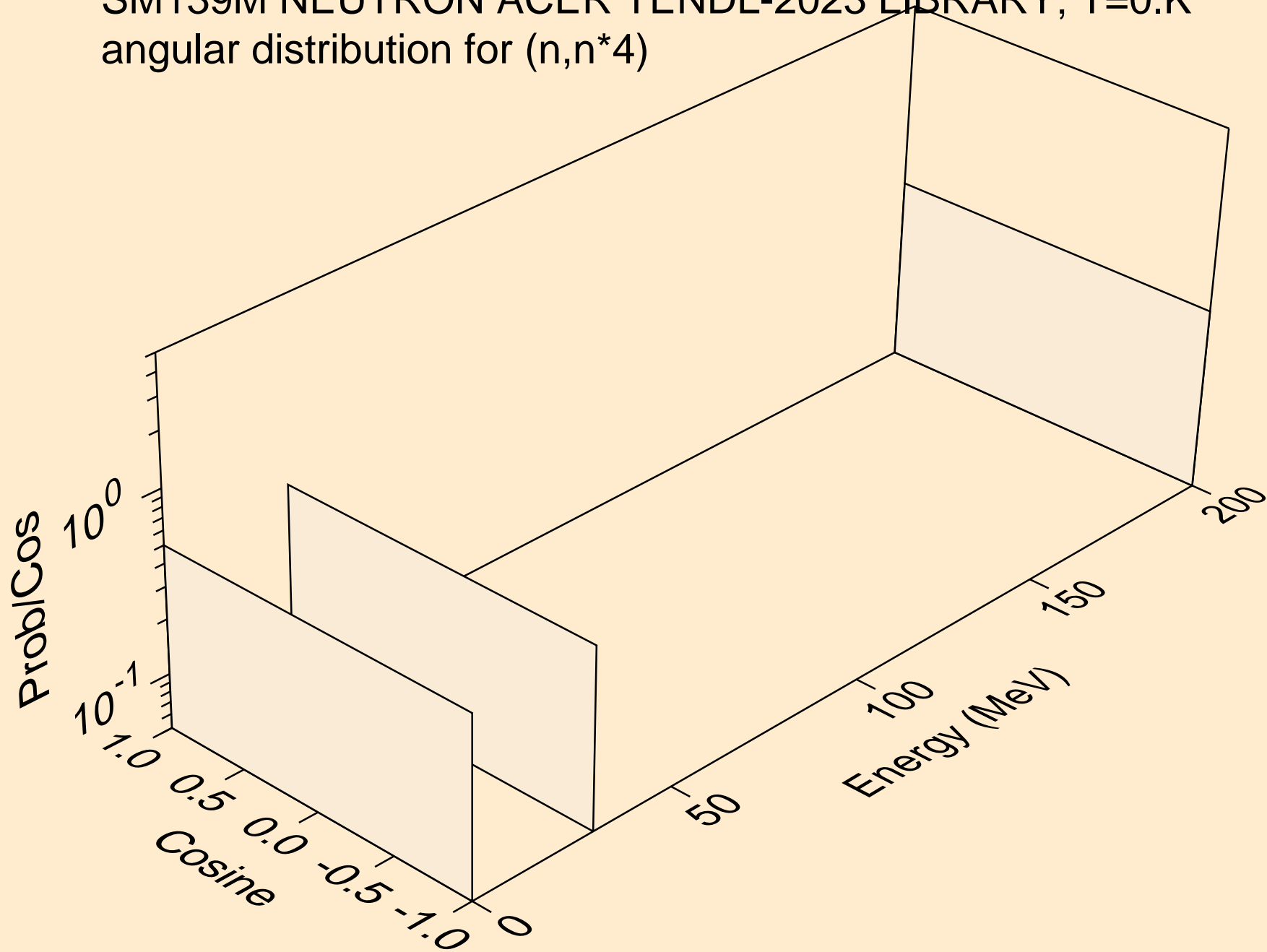
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)



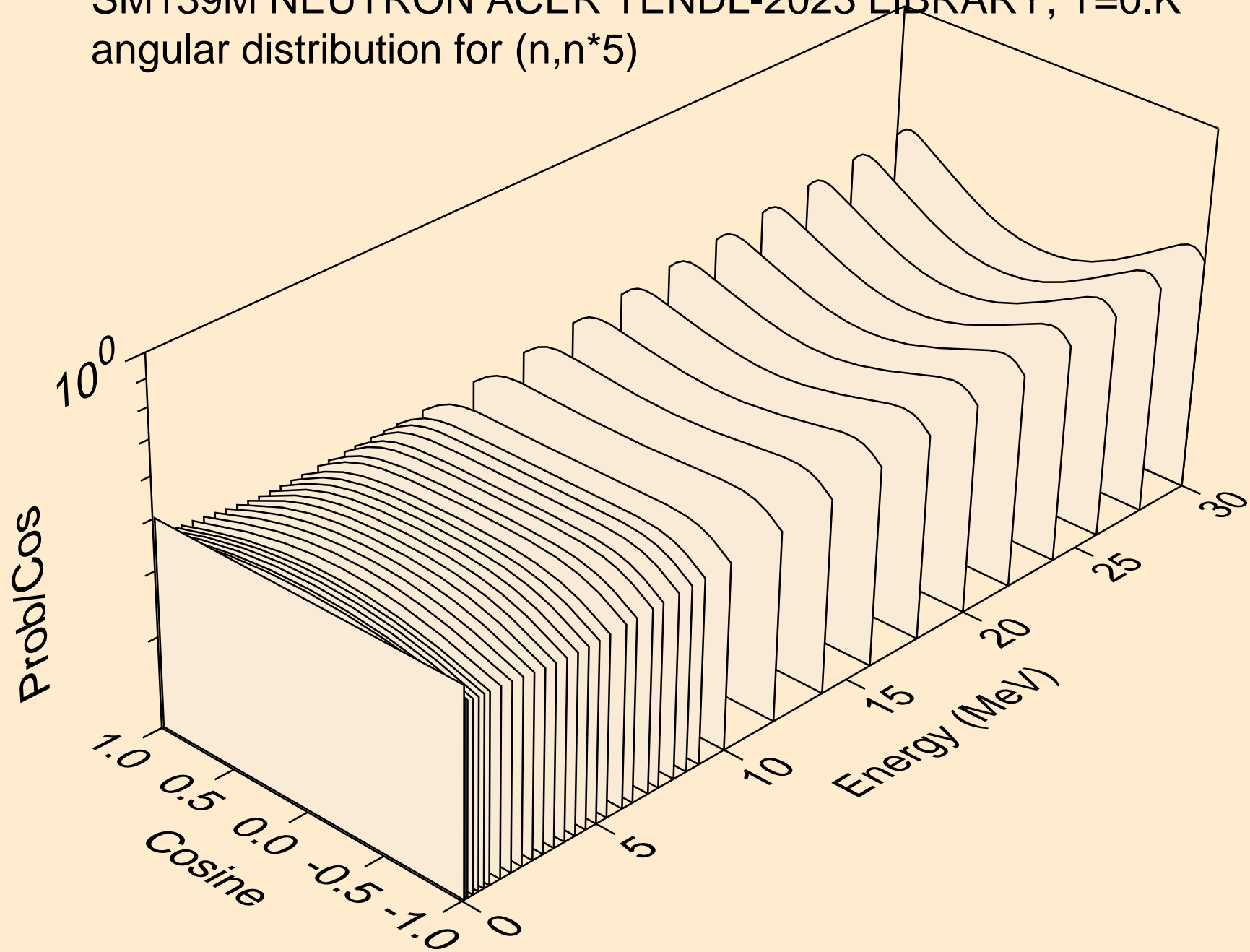
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



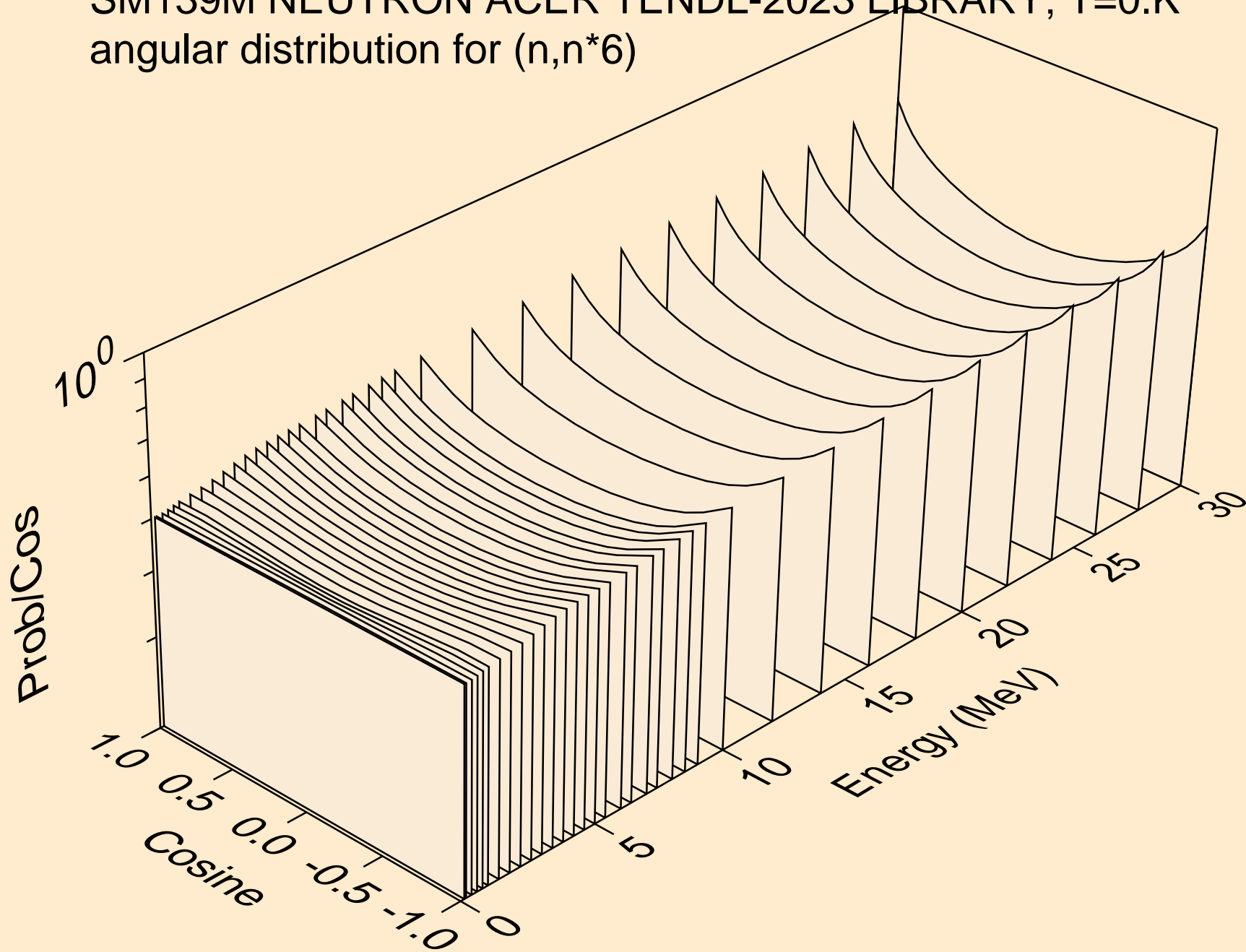
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



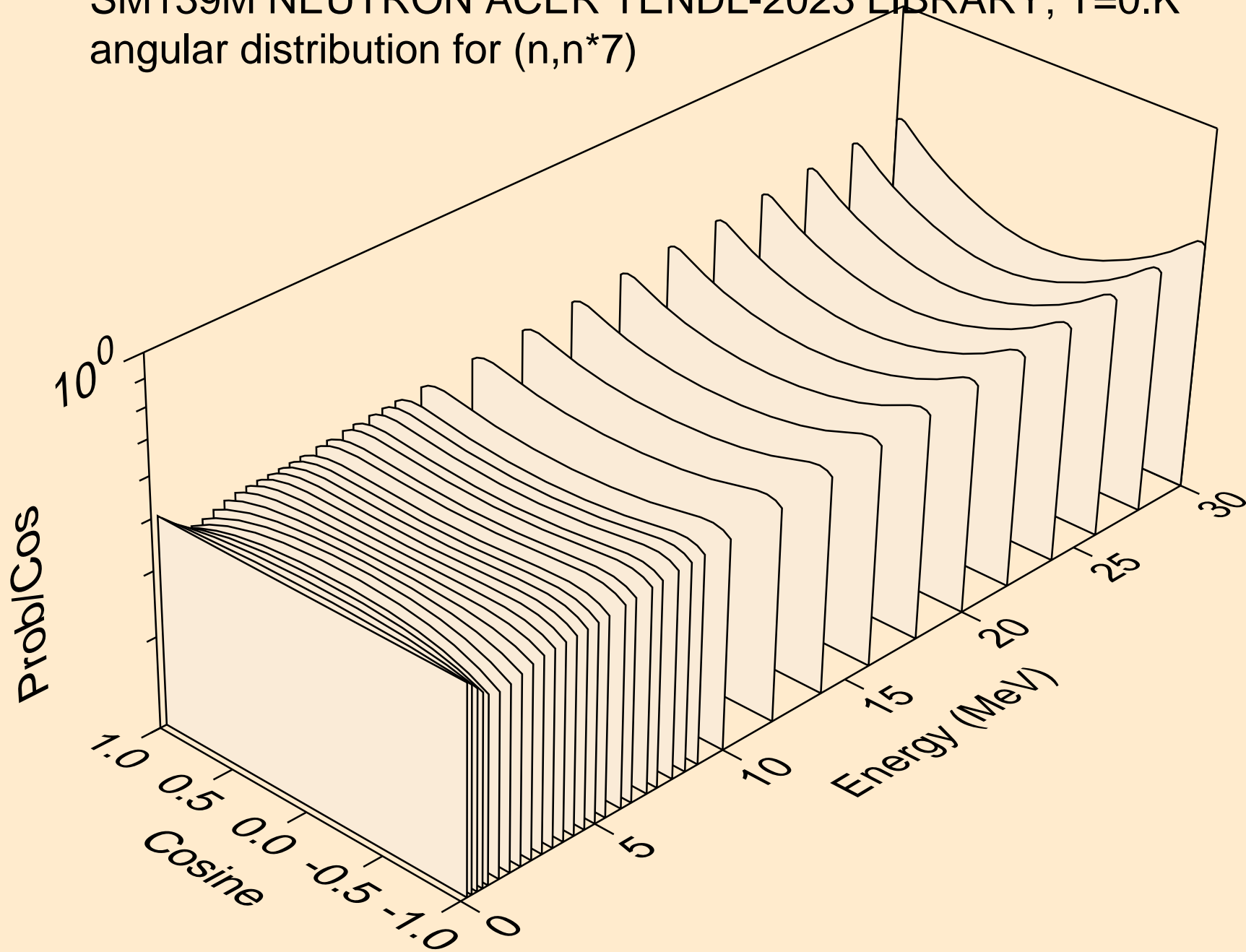
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



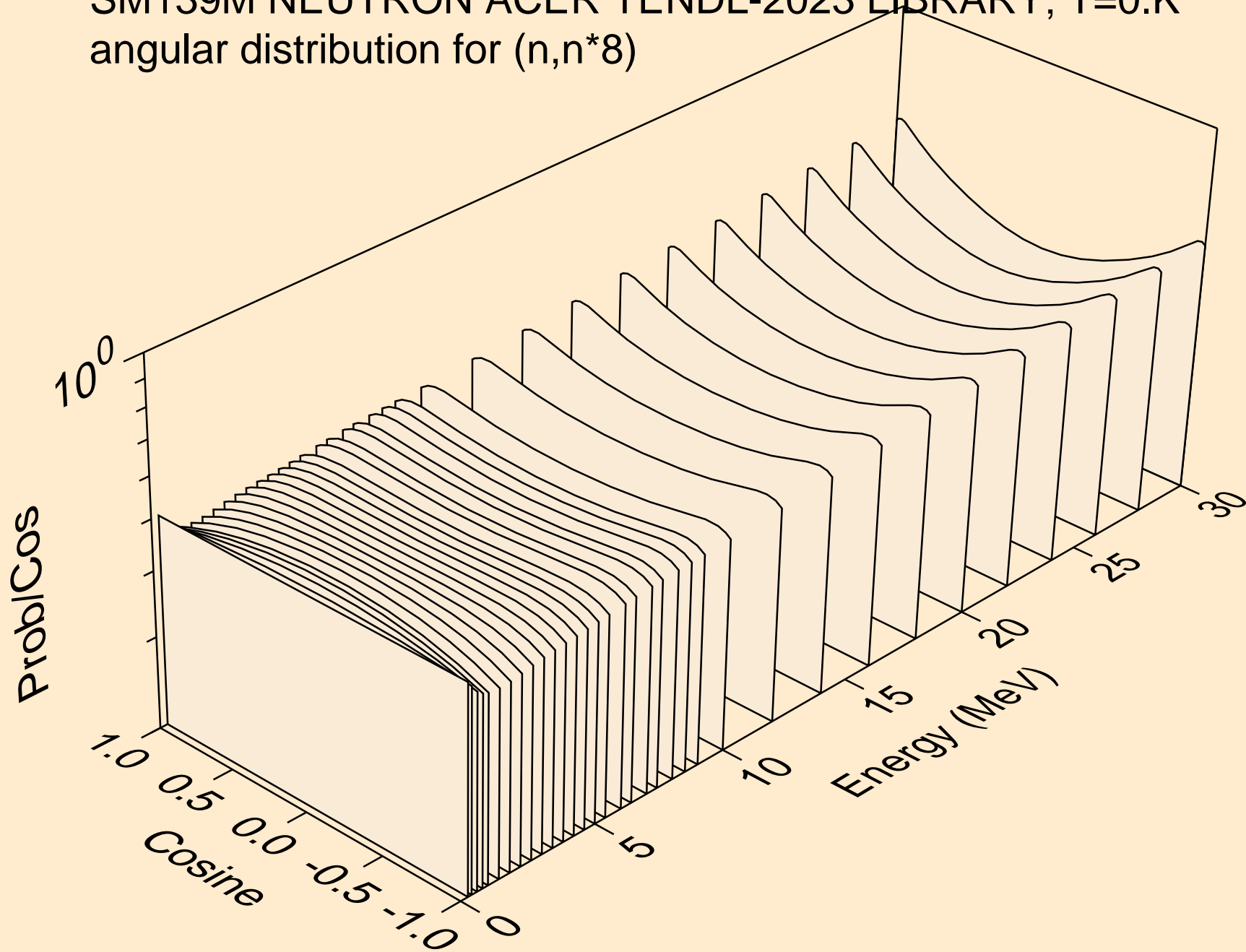
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



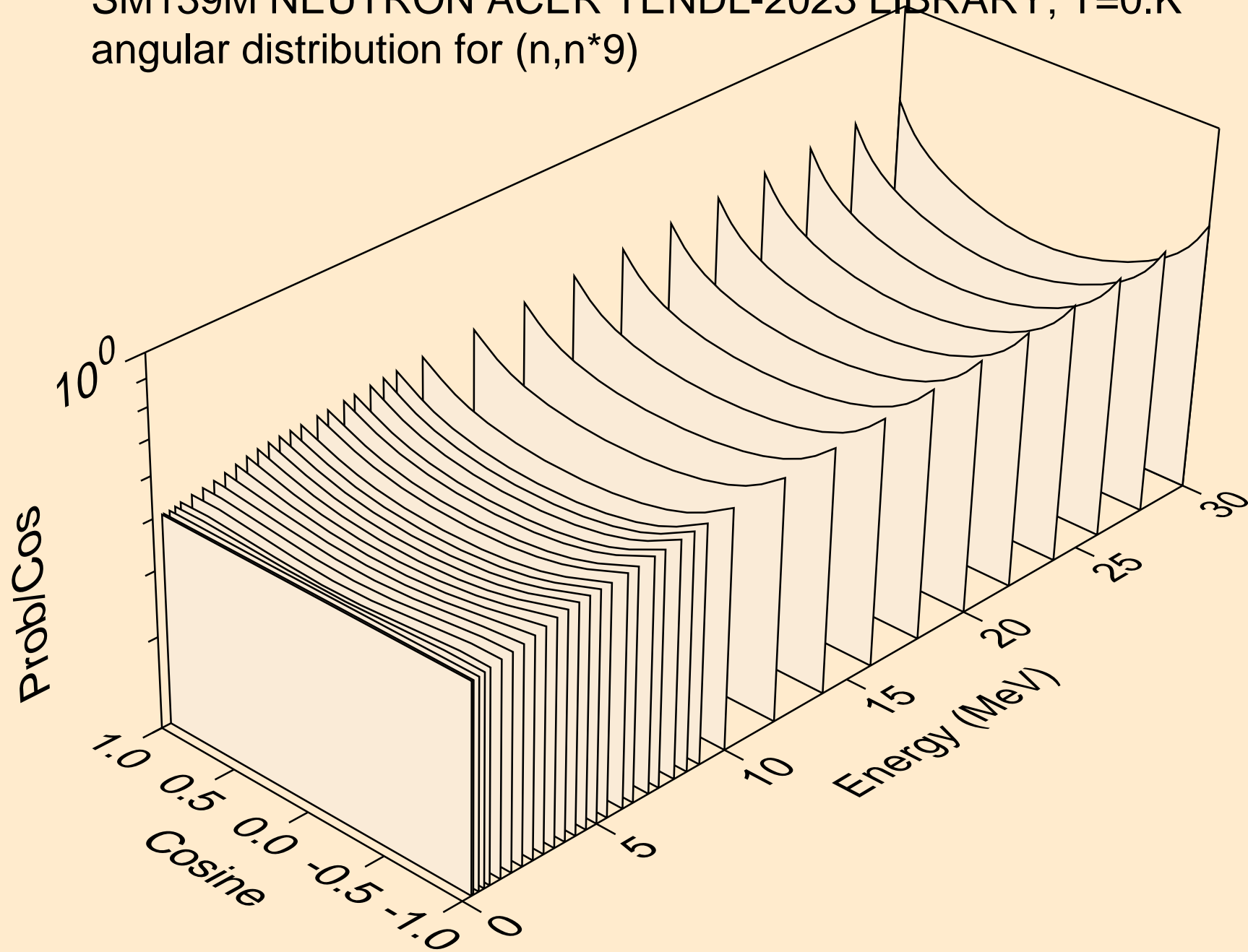
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



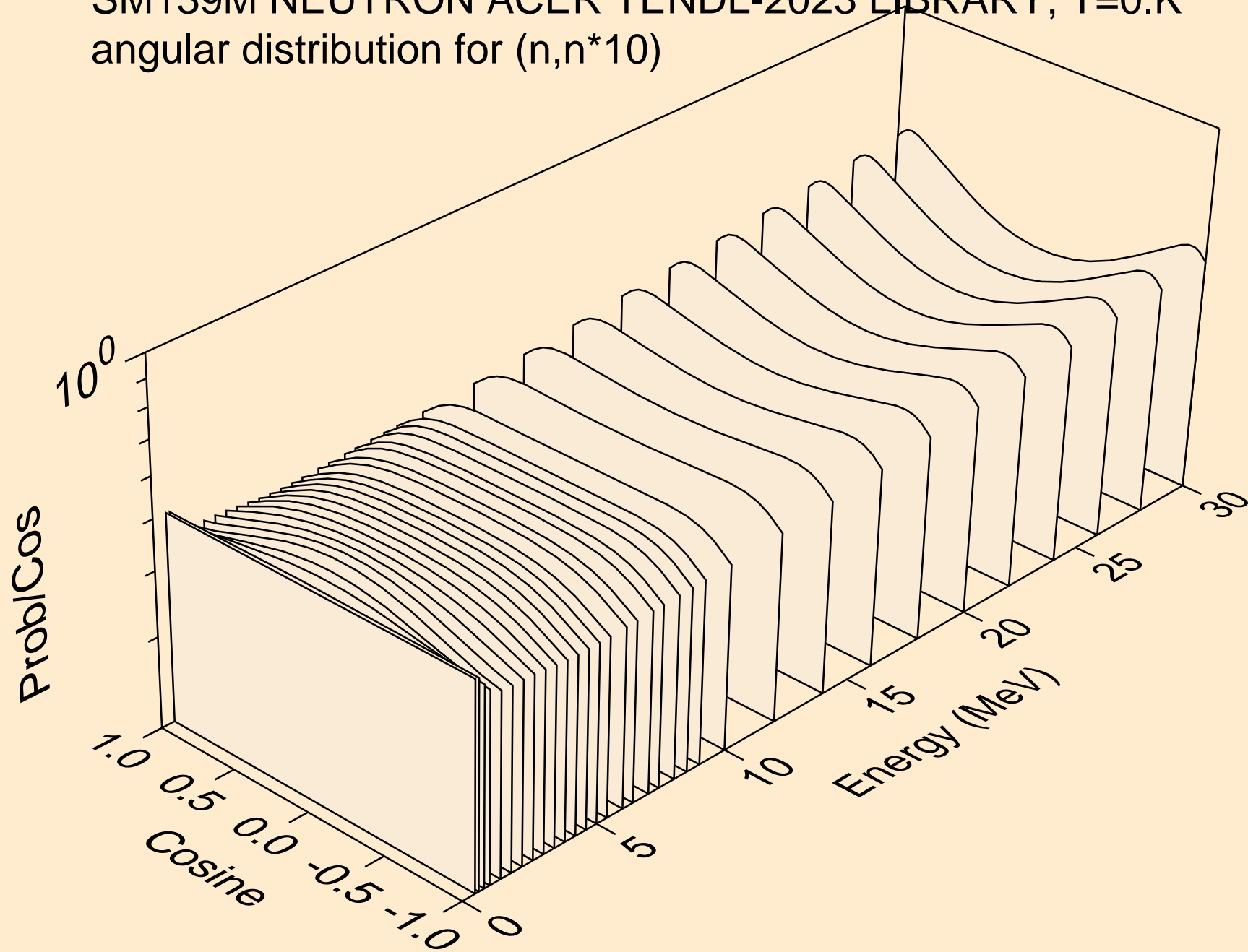
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



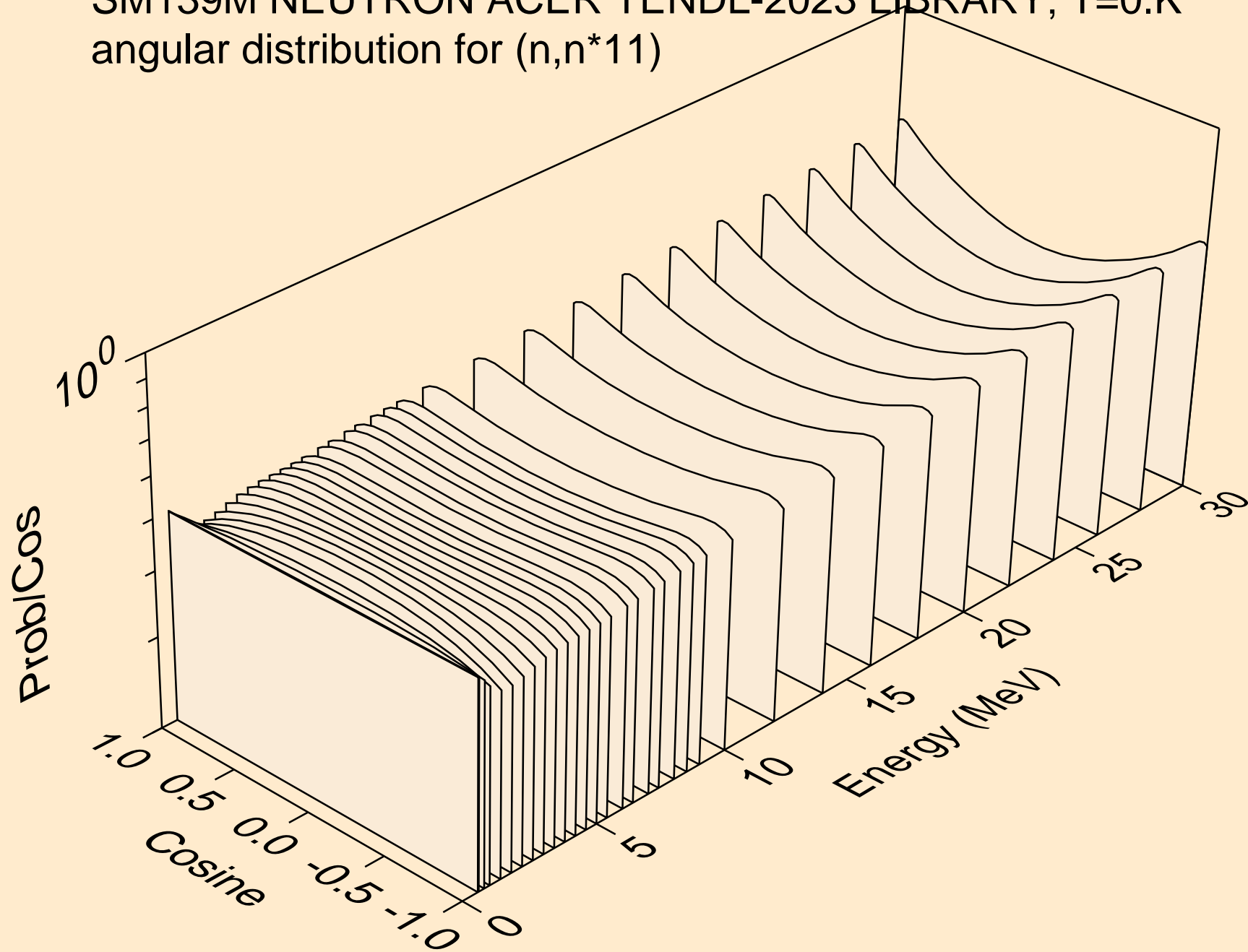
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)



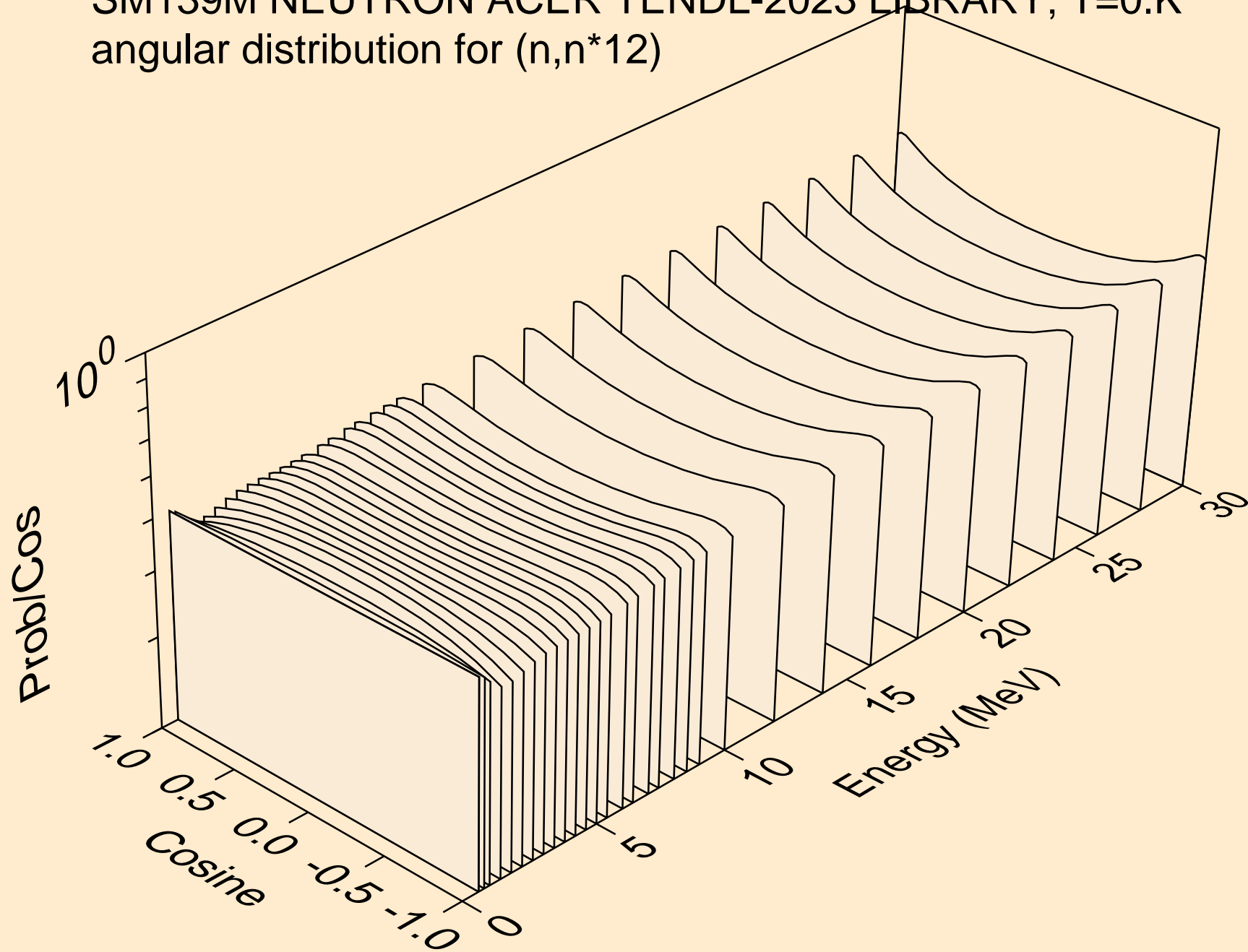
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)



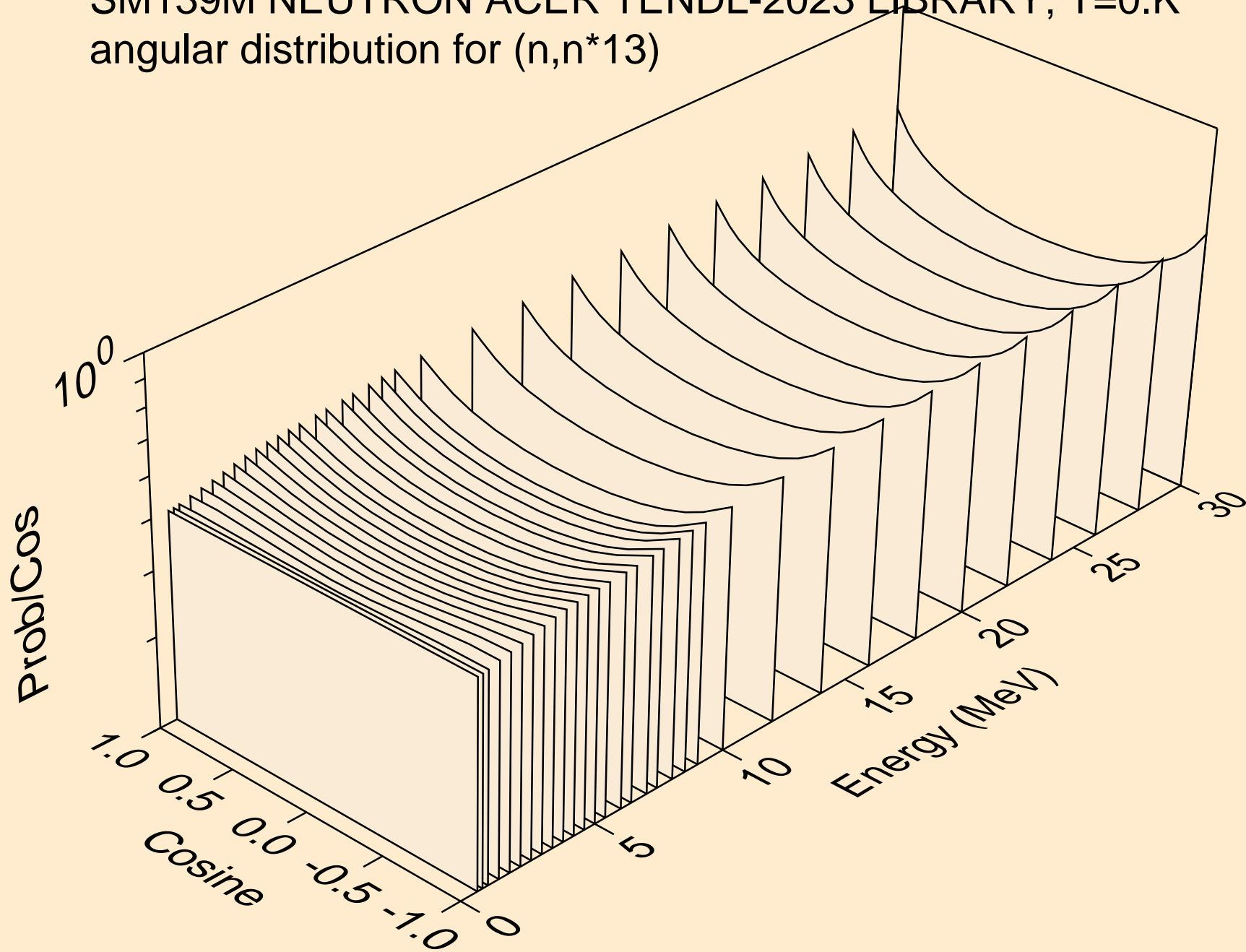
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



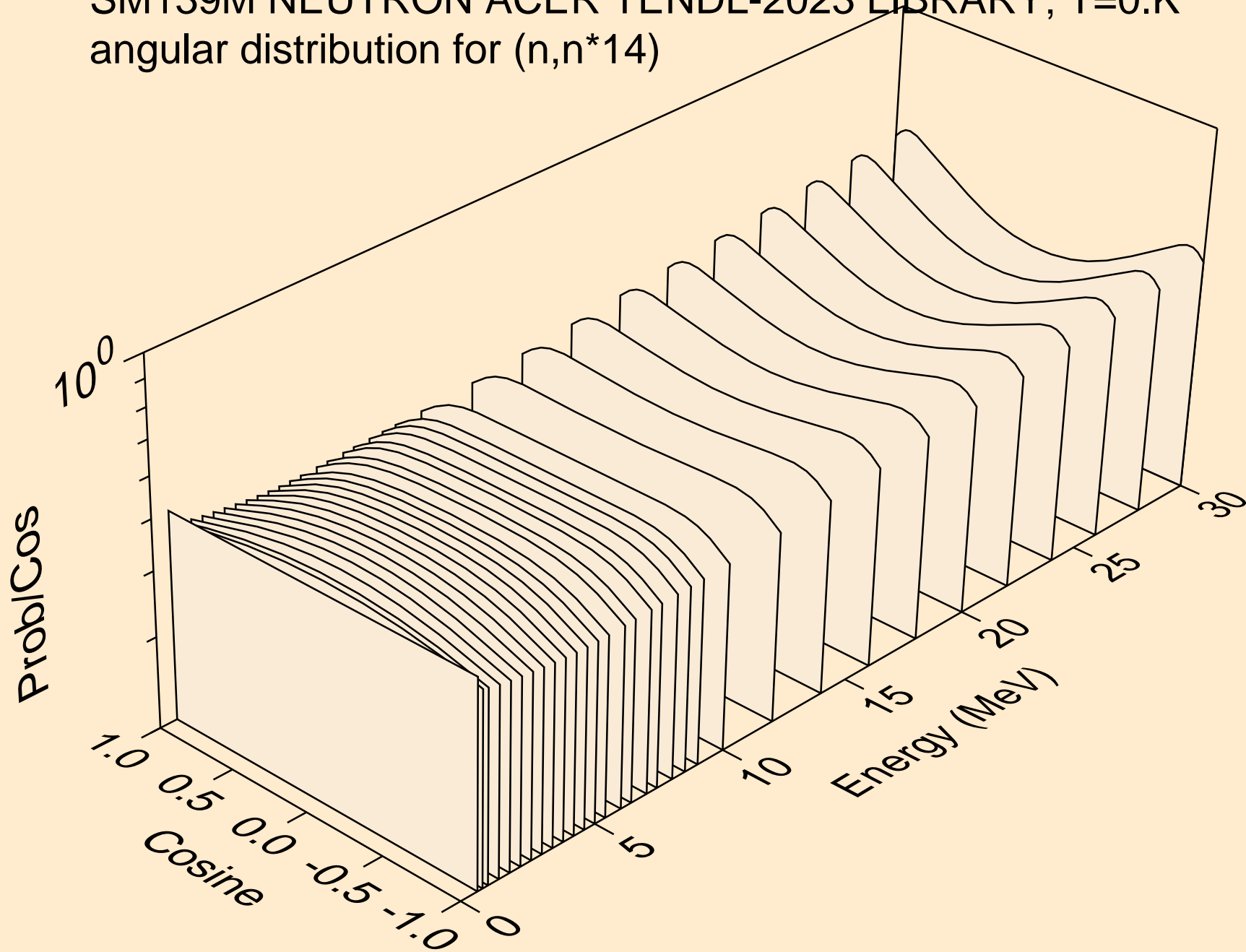
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



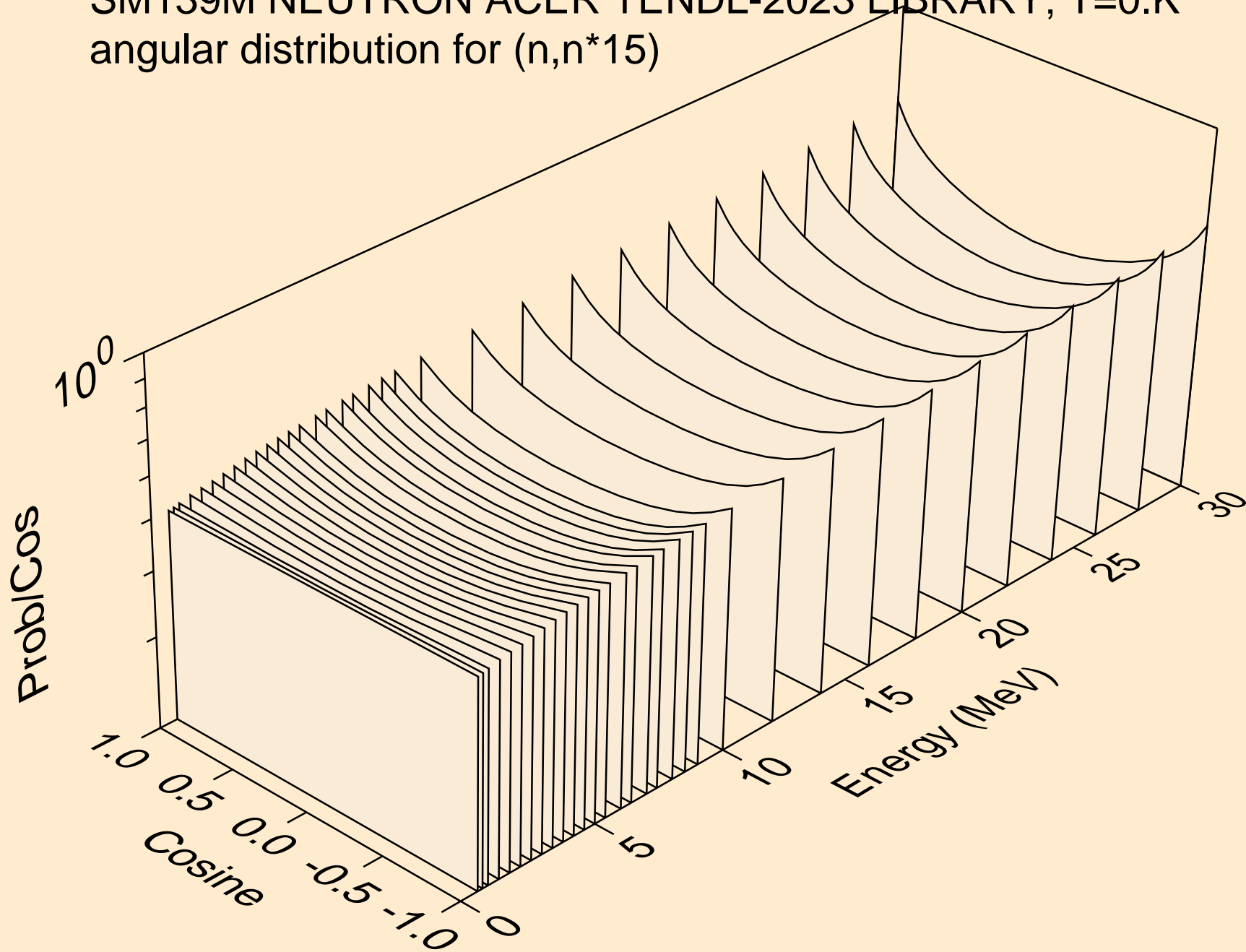
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



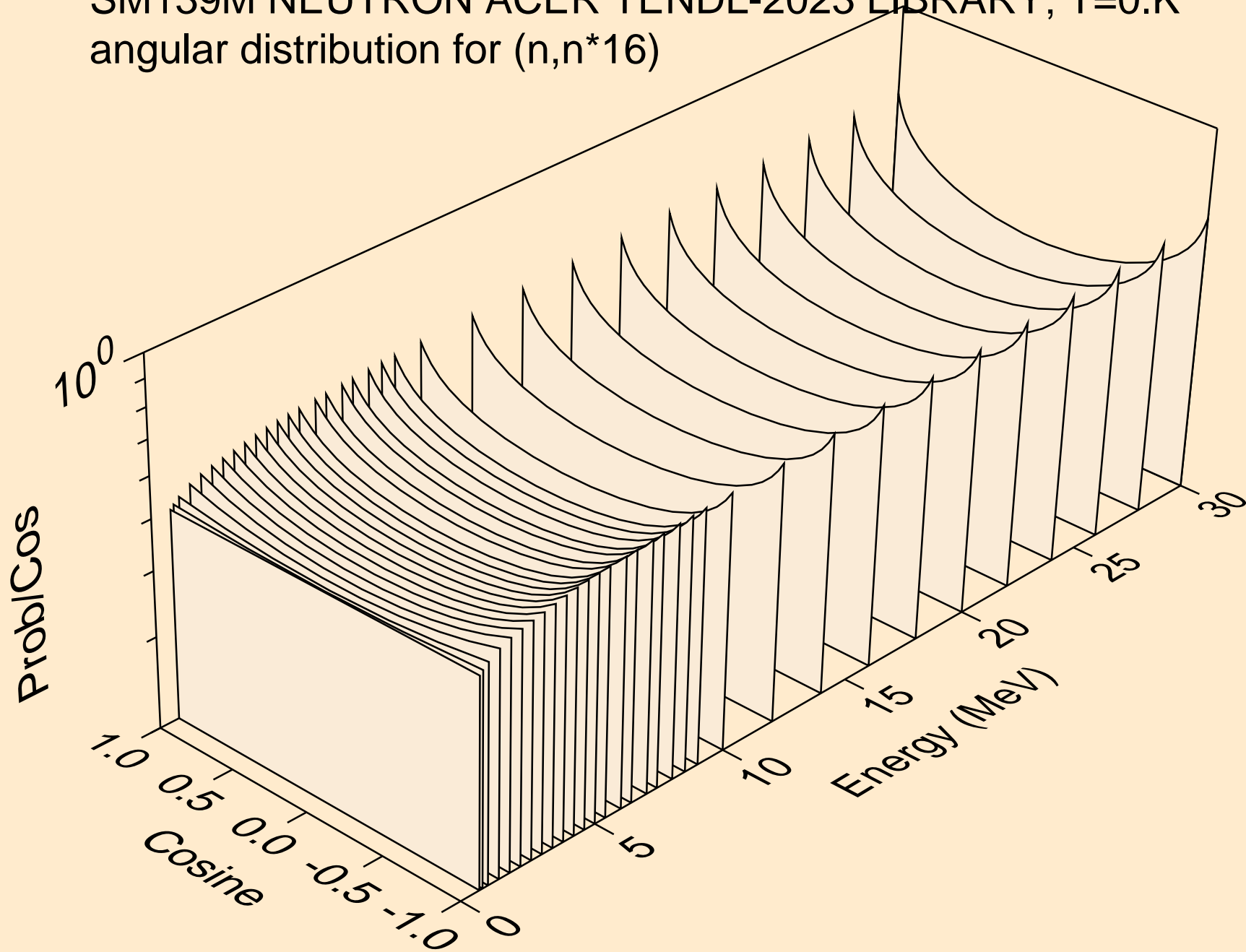
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



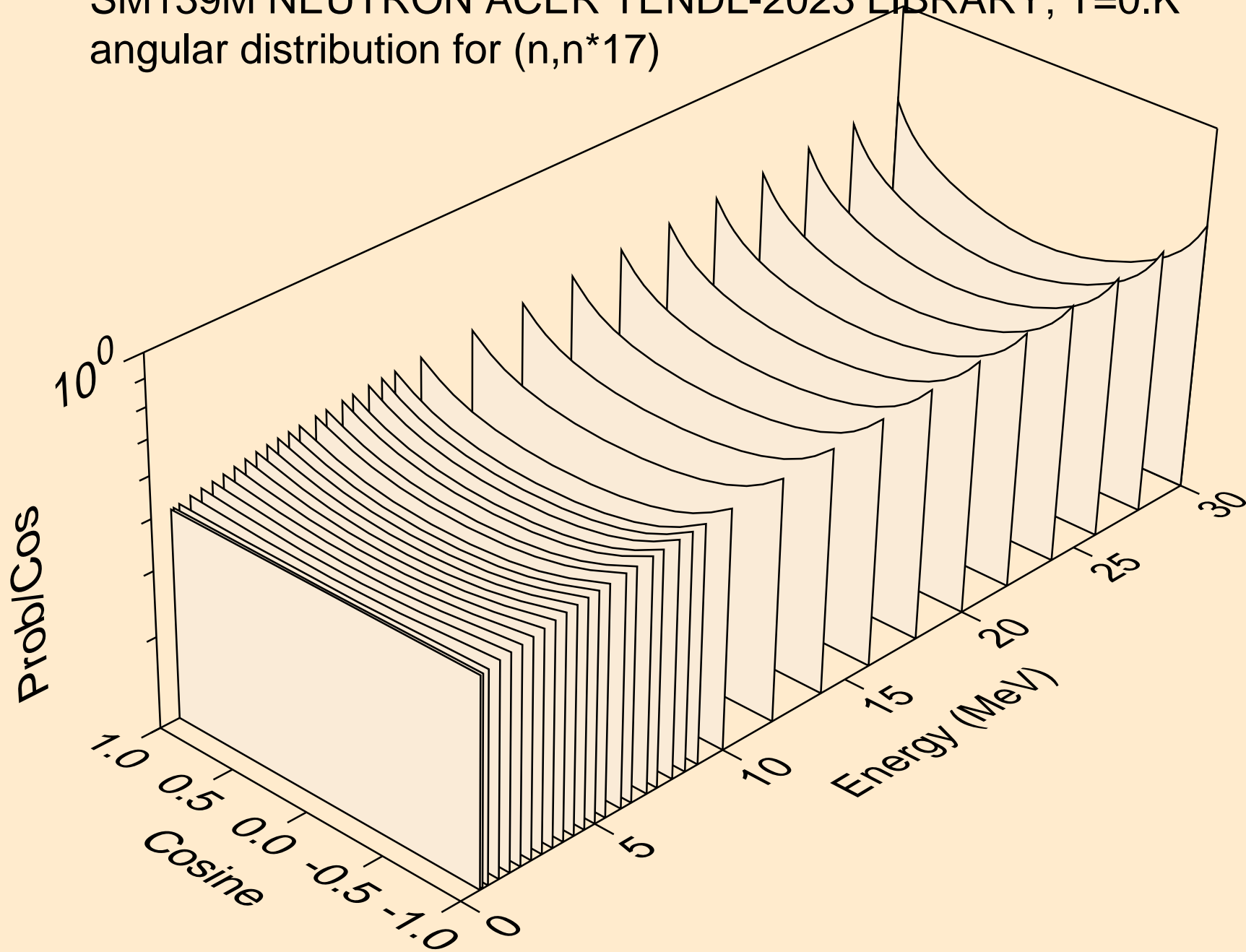
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



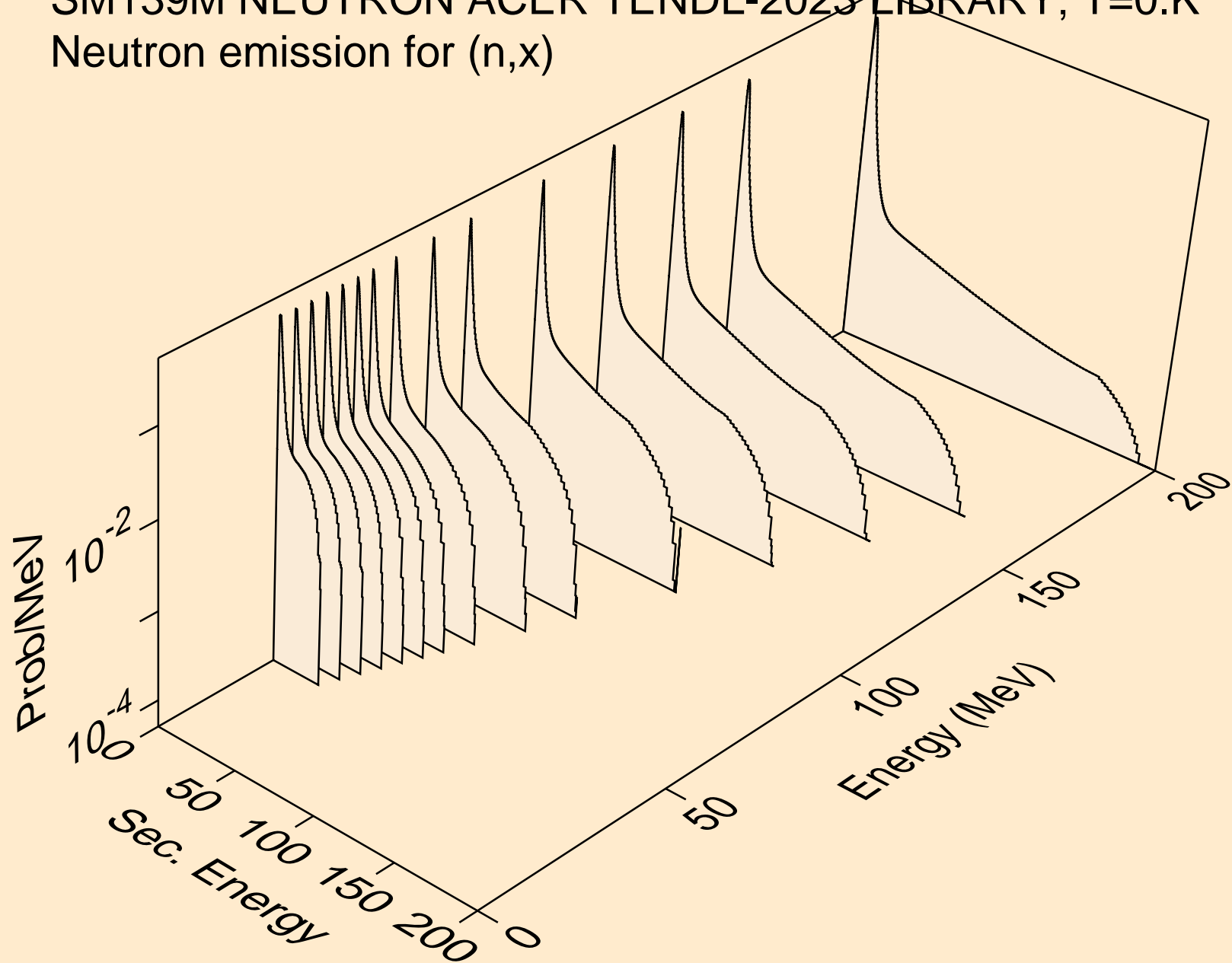
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



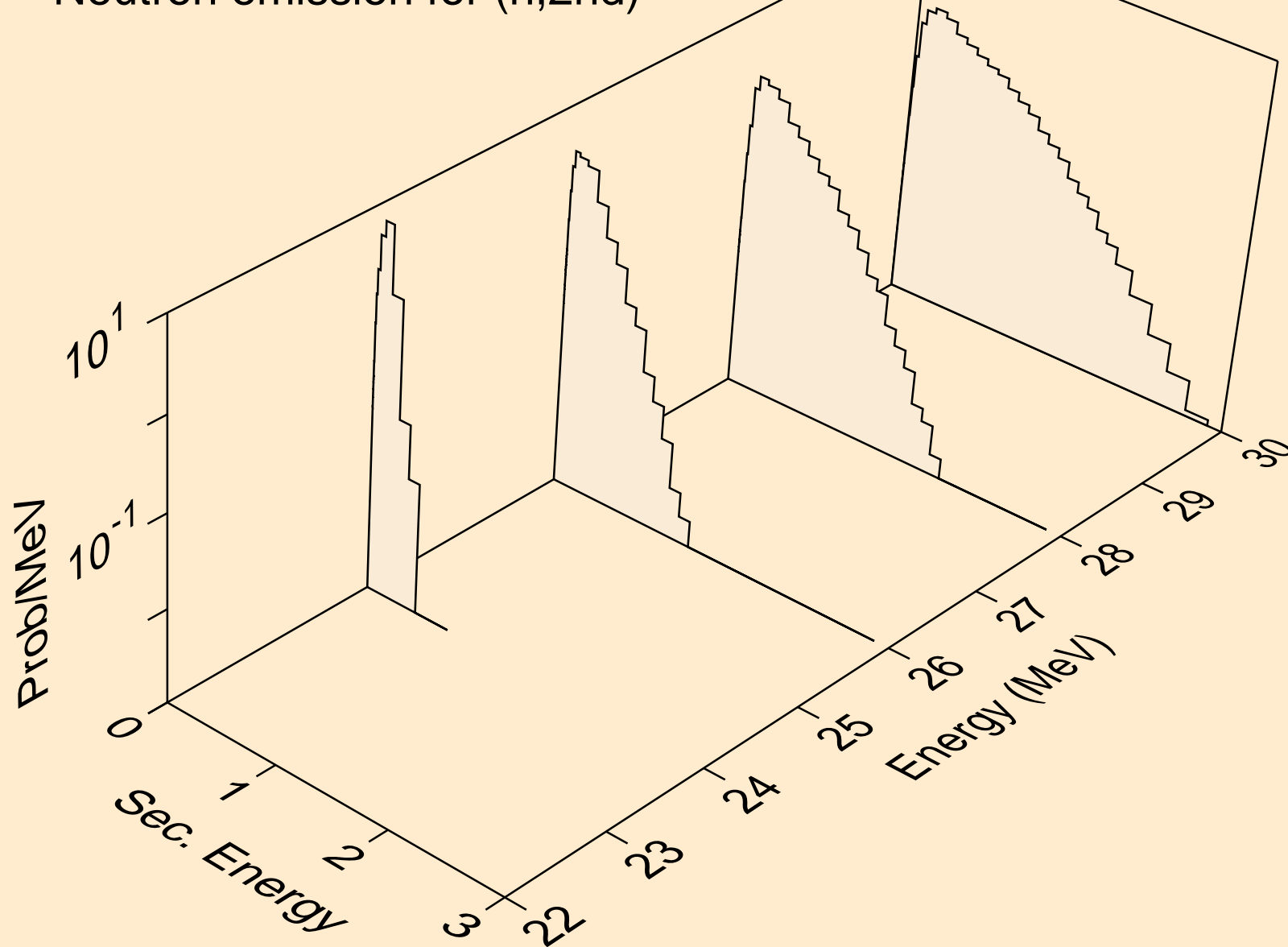
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)



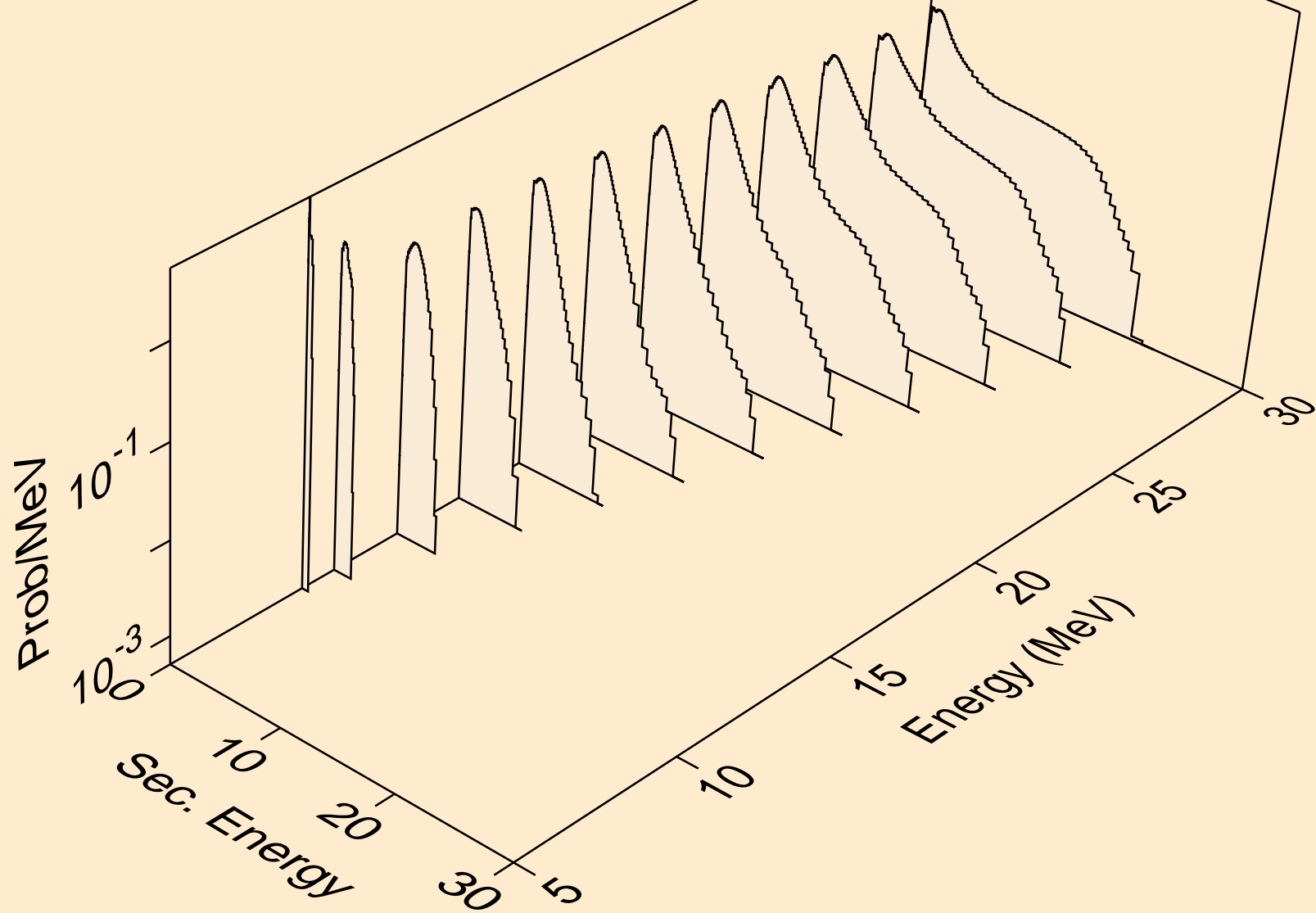
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



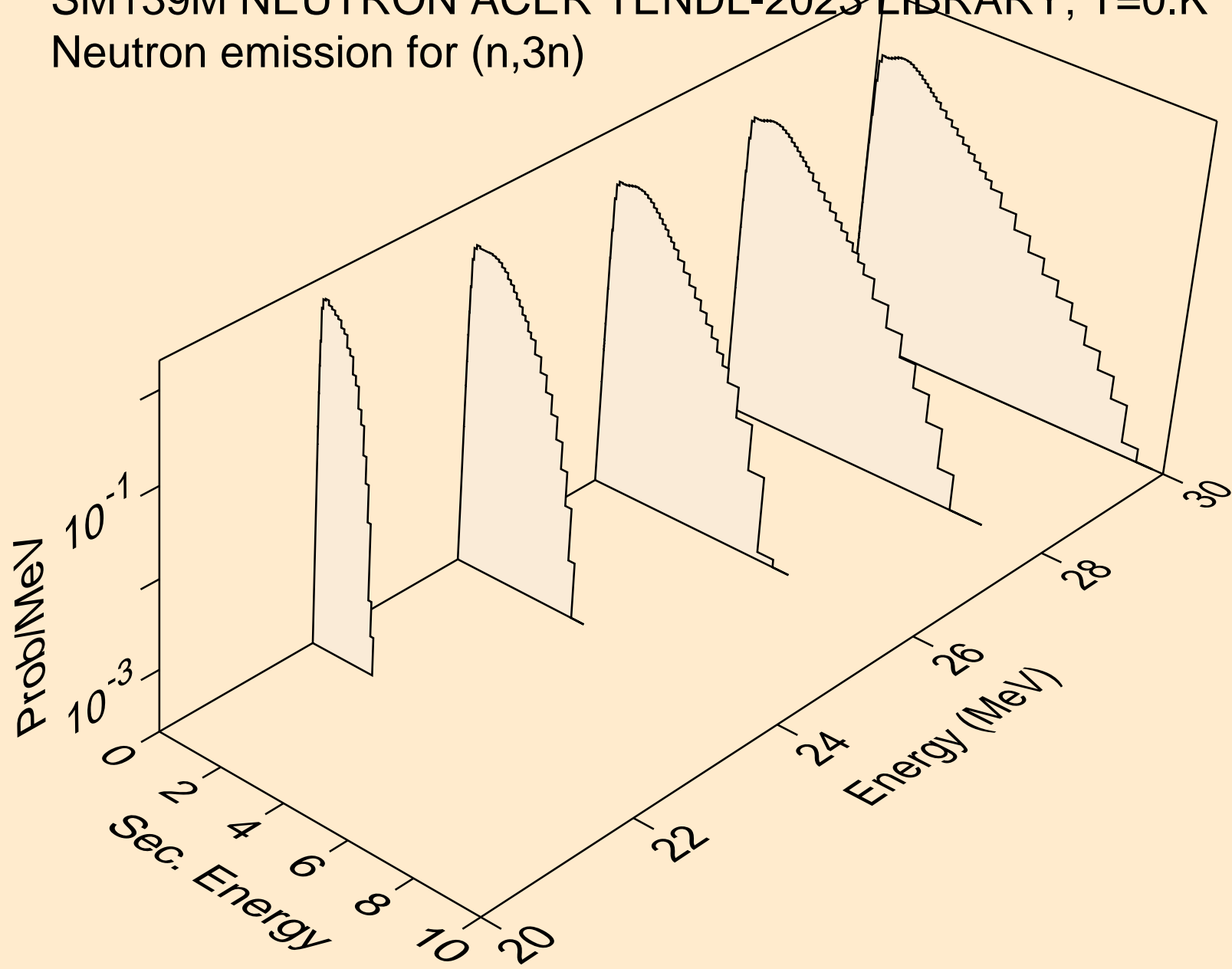
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



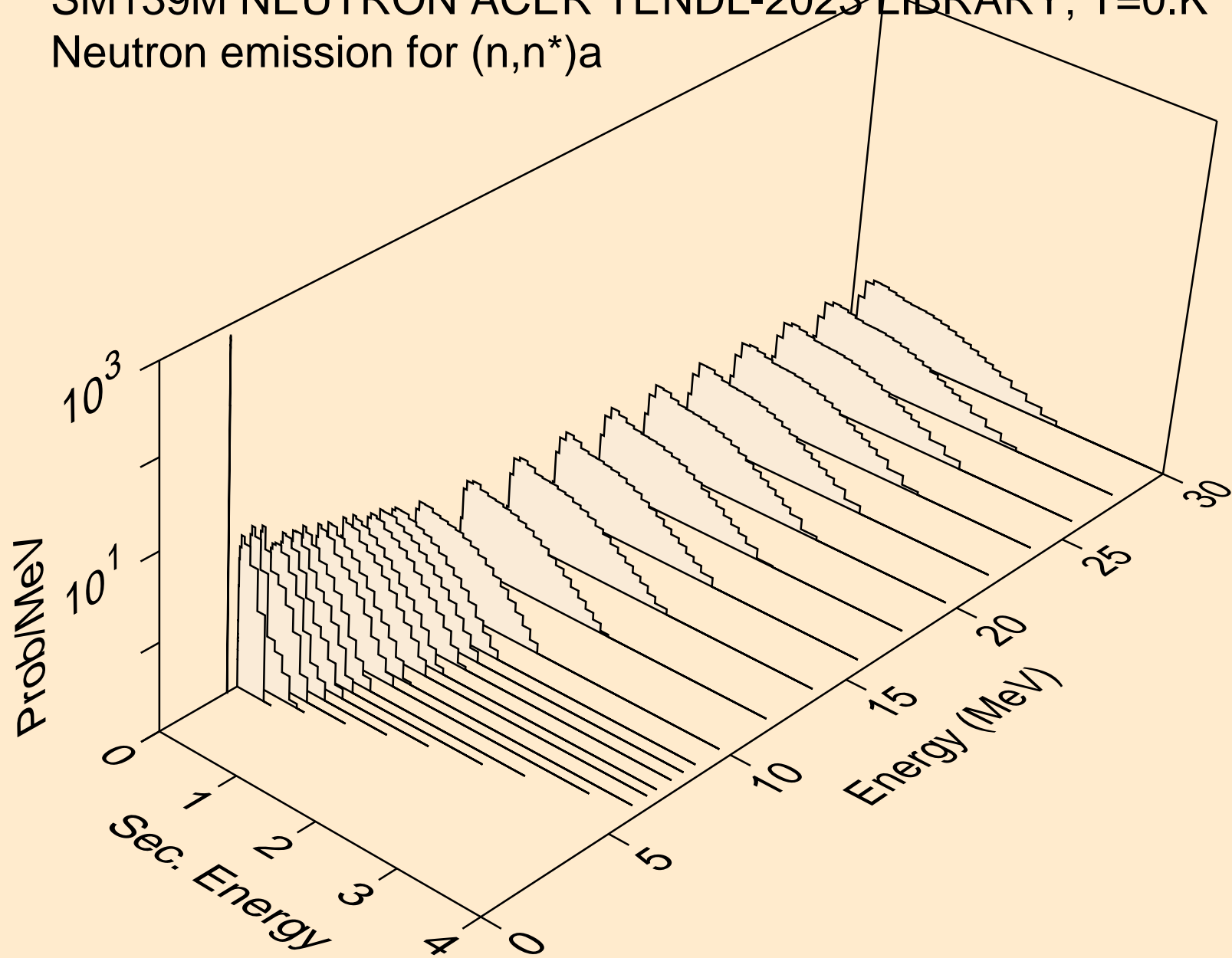
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



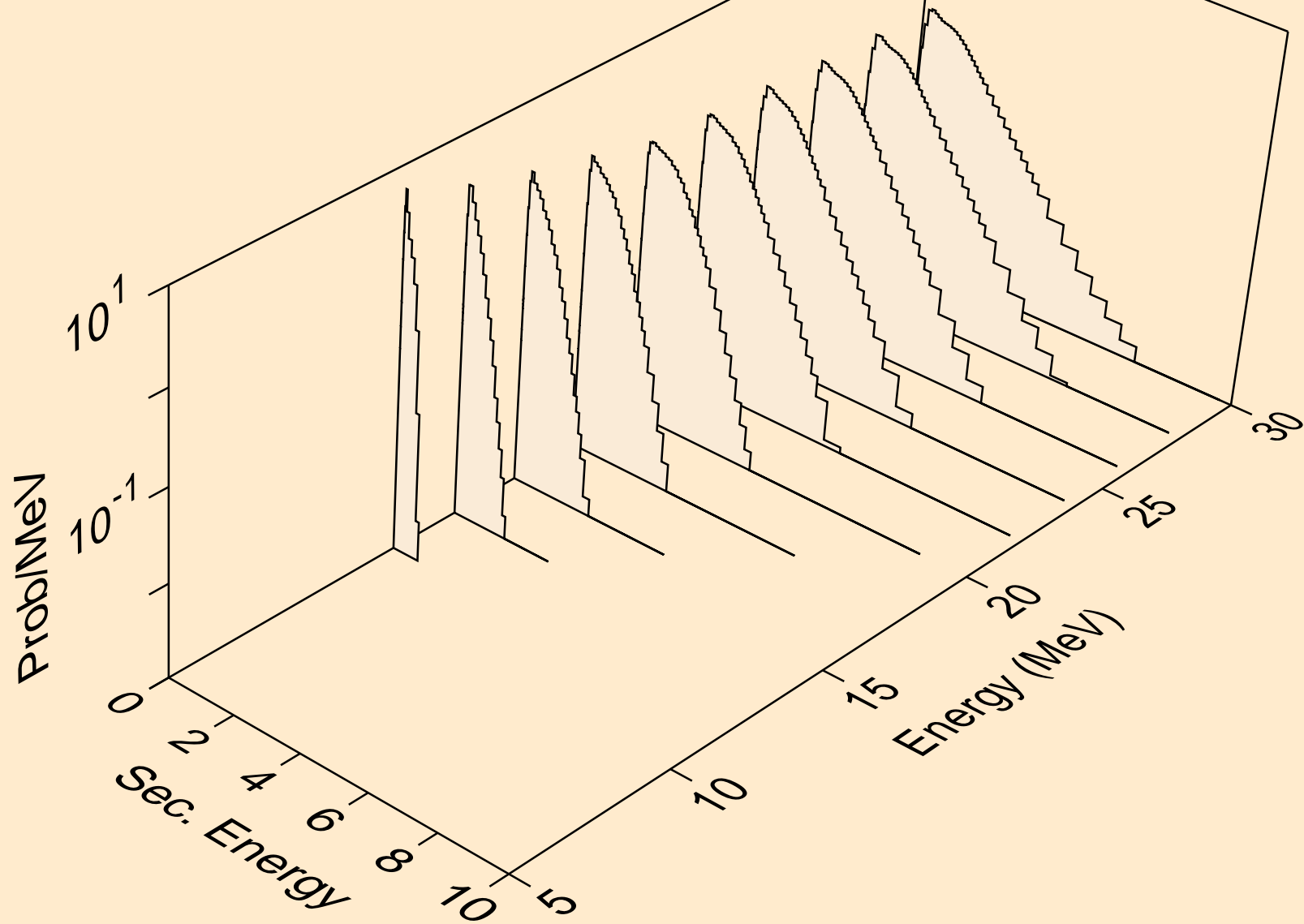
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



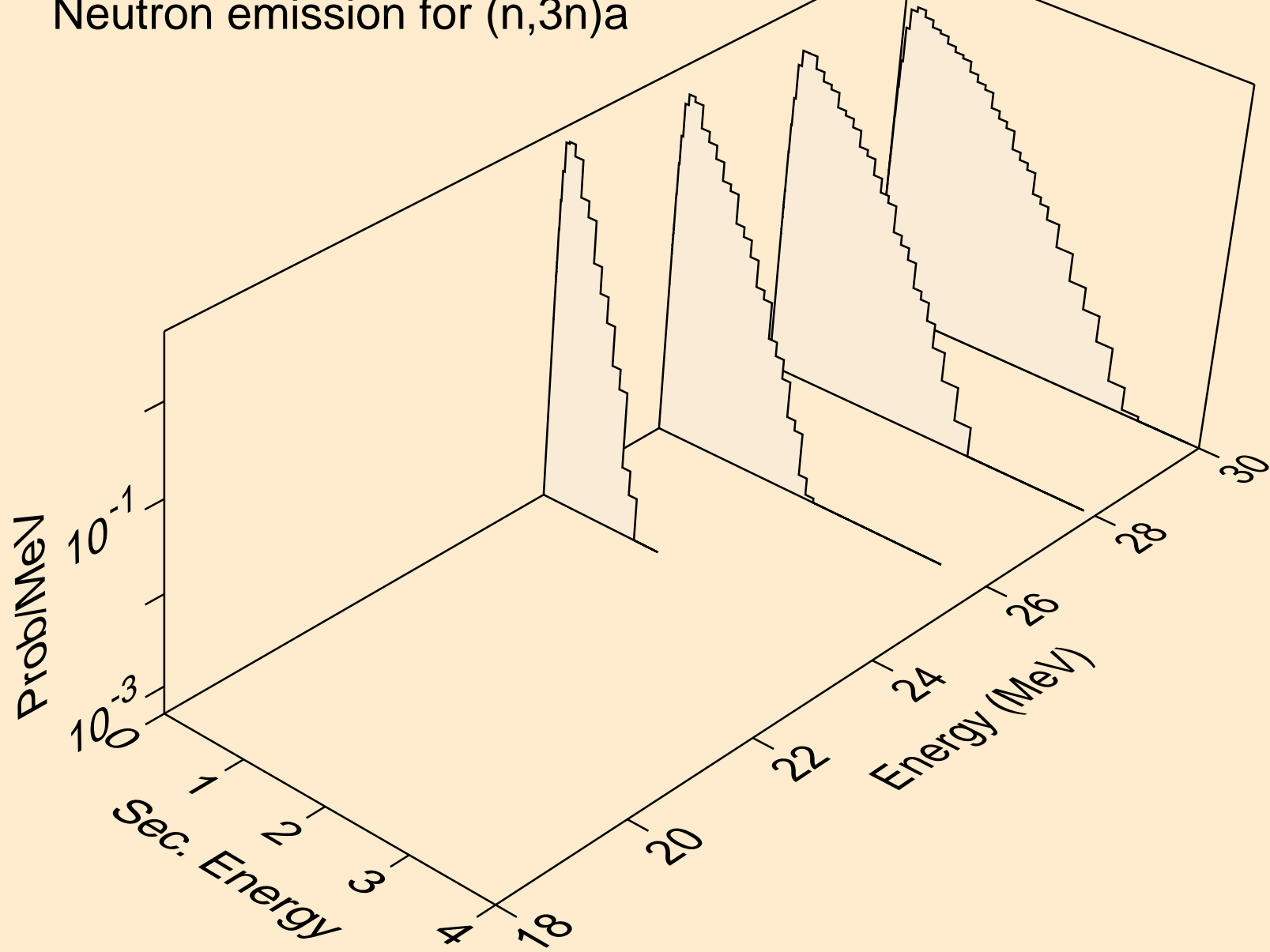
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



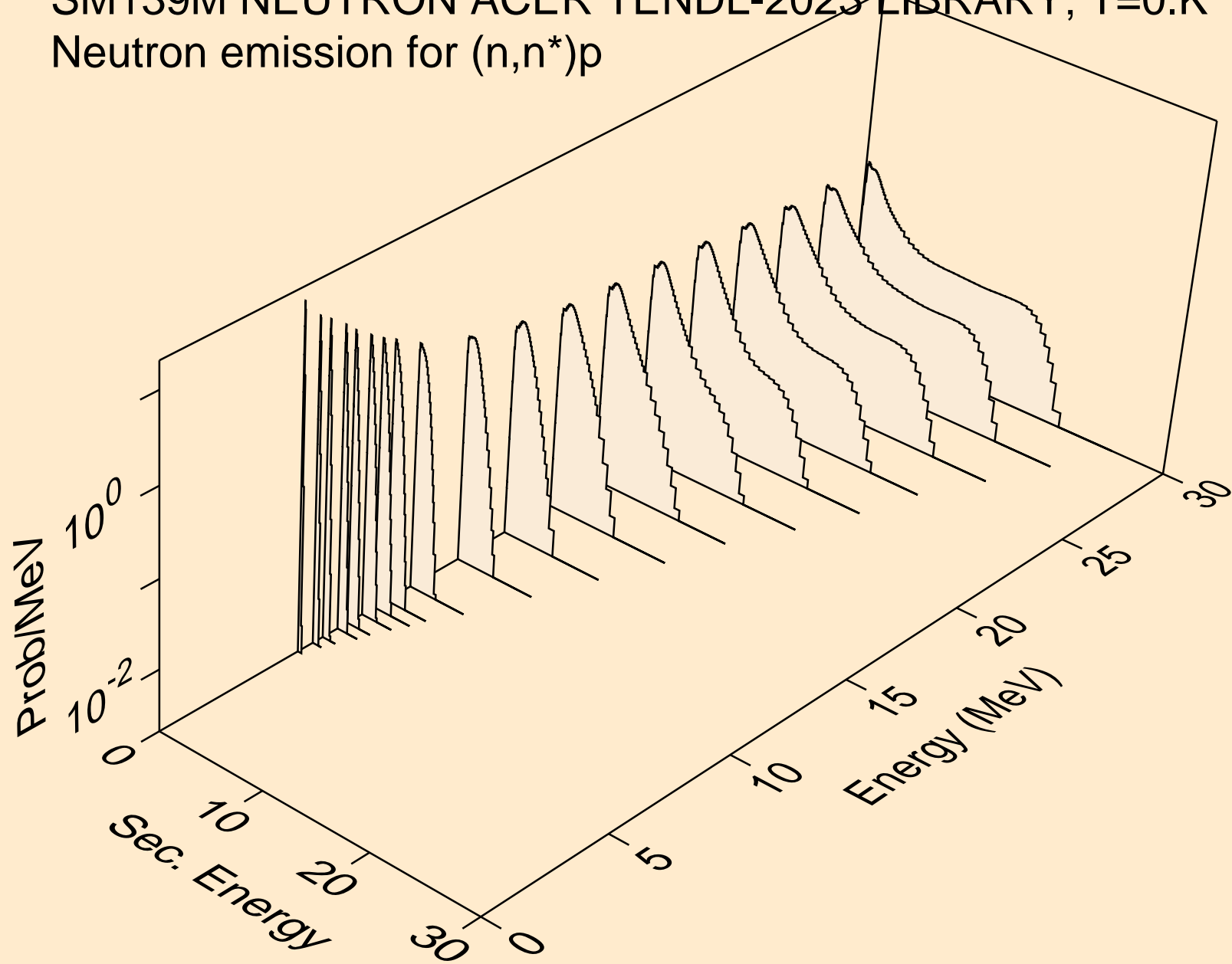
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



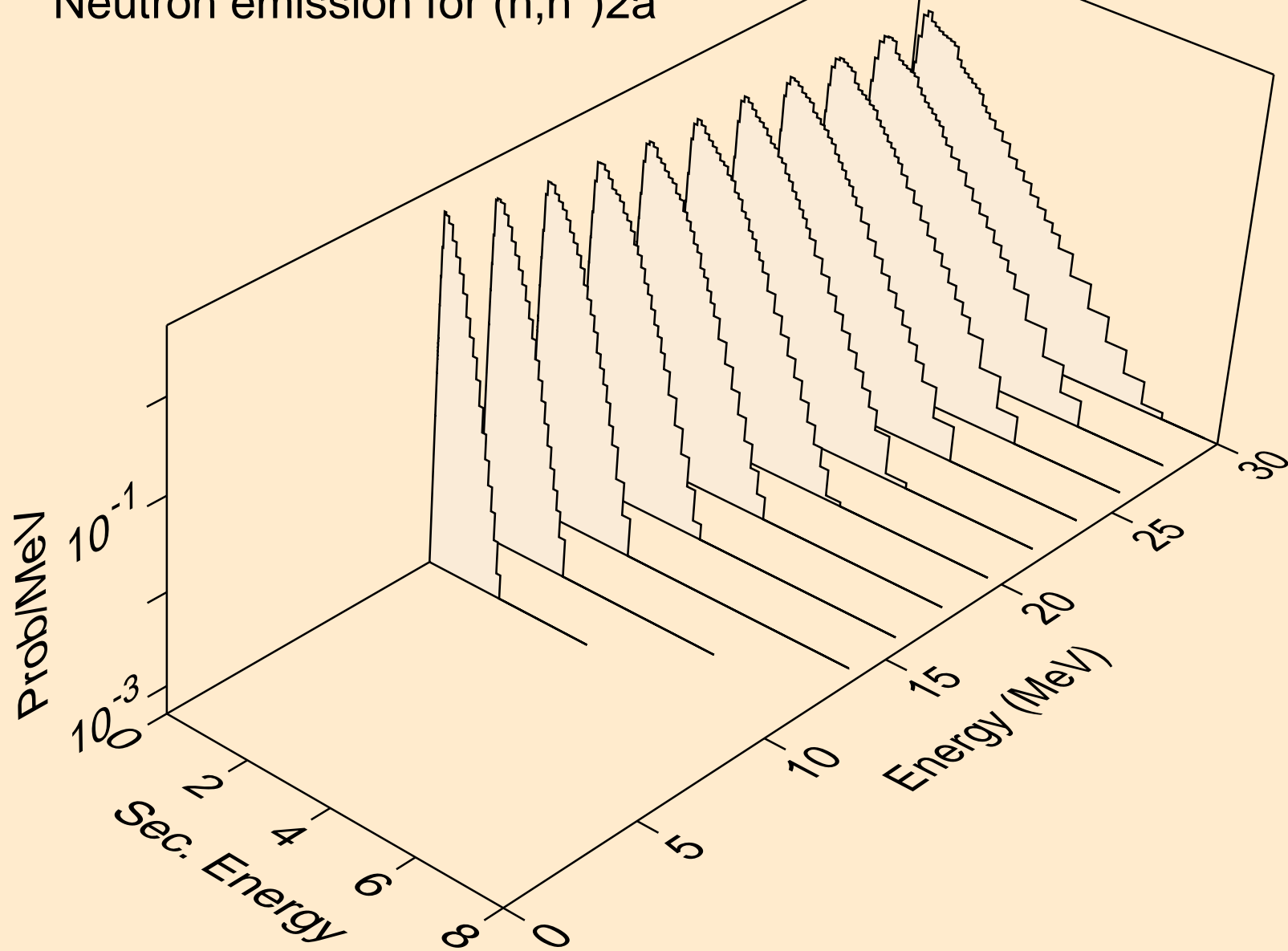
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a



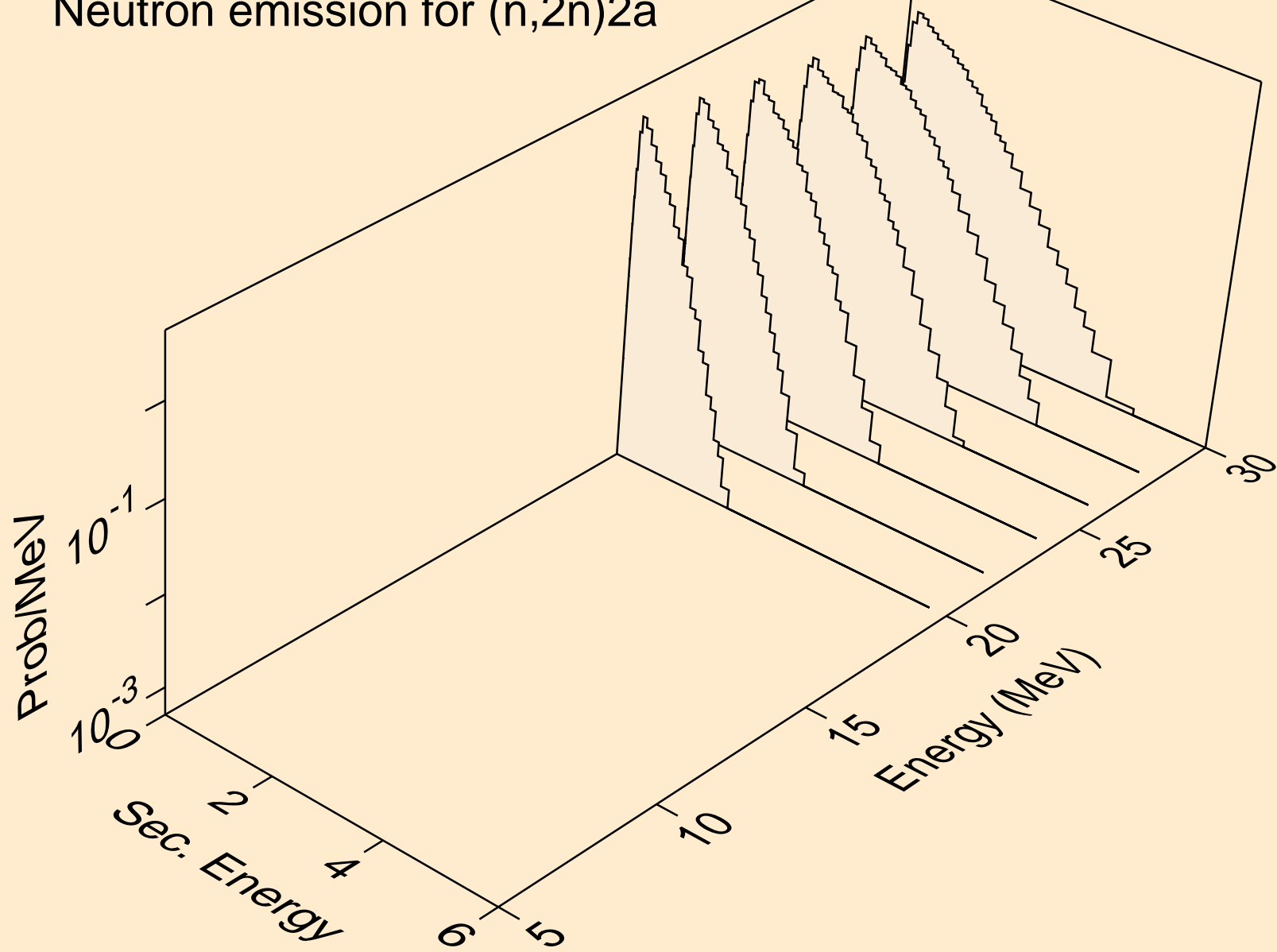
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p



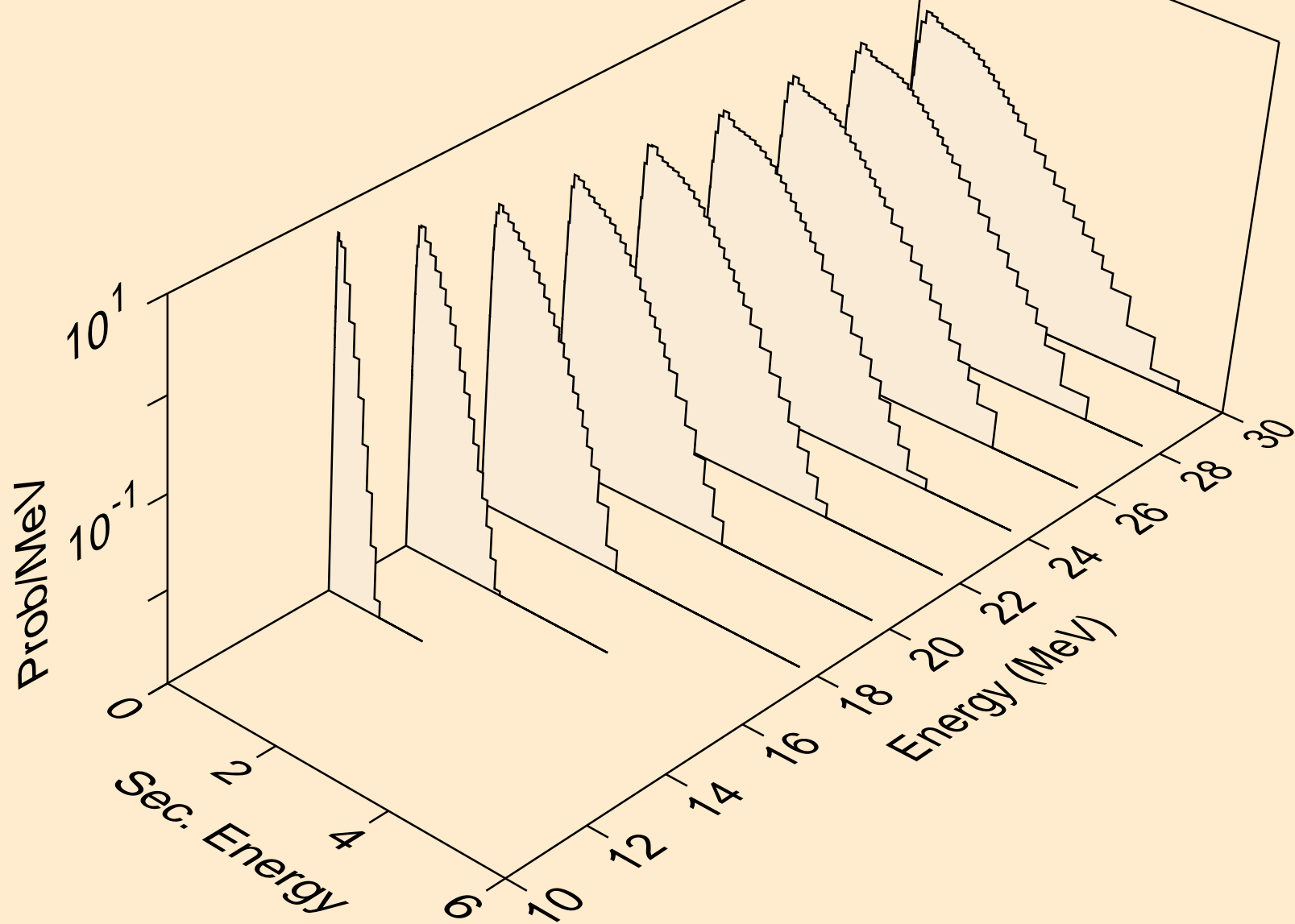
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



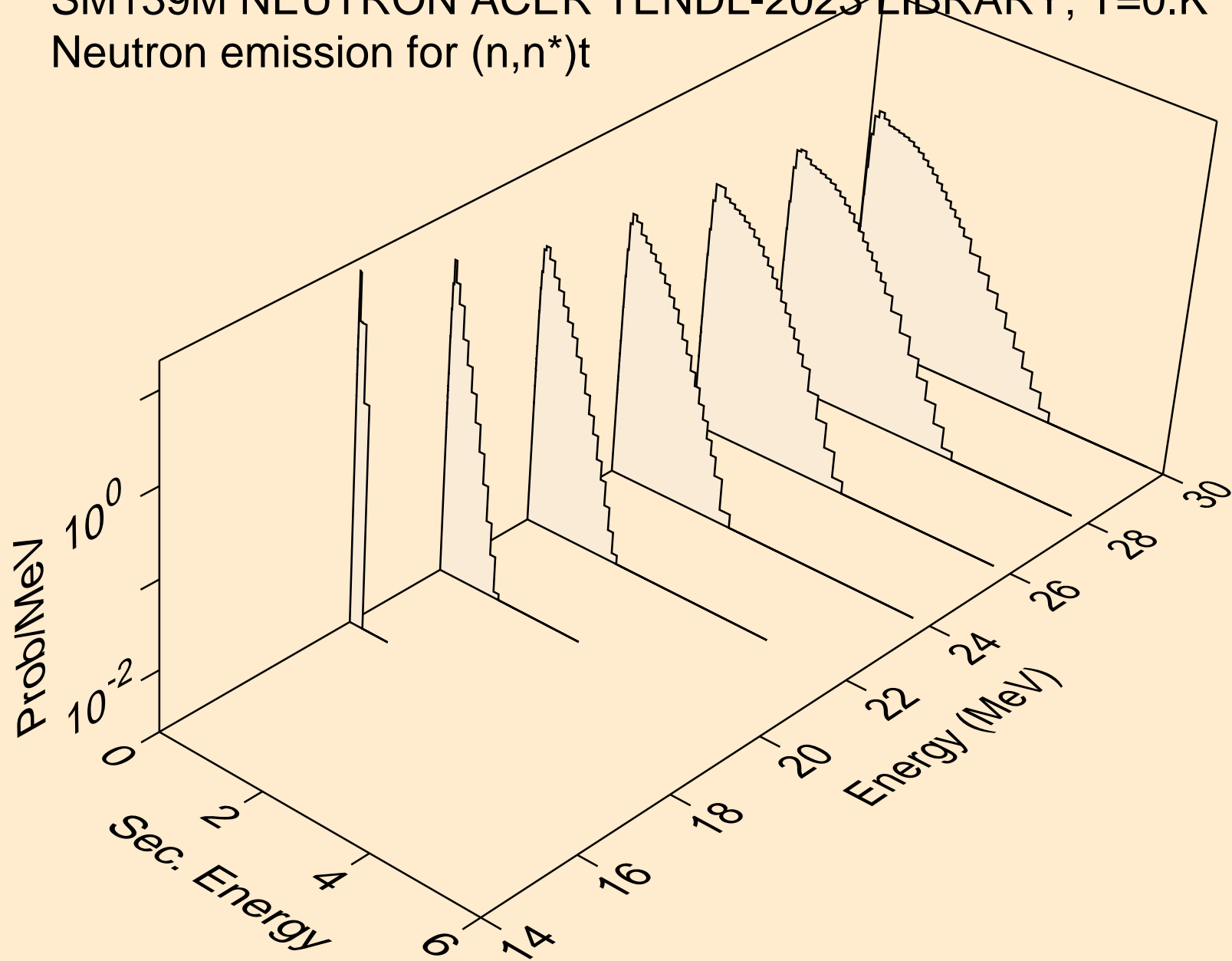
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)2a



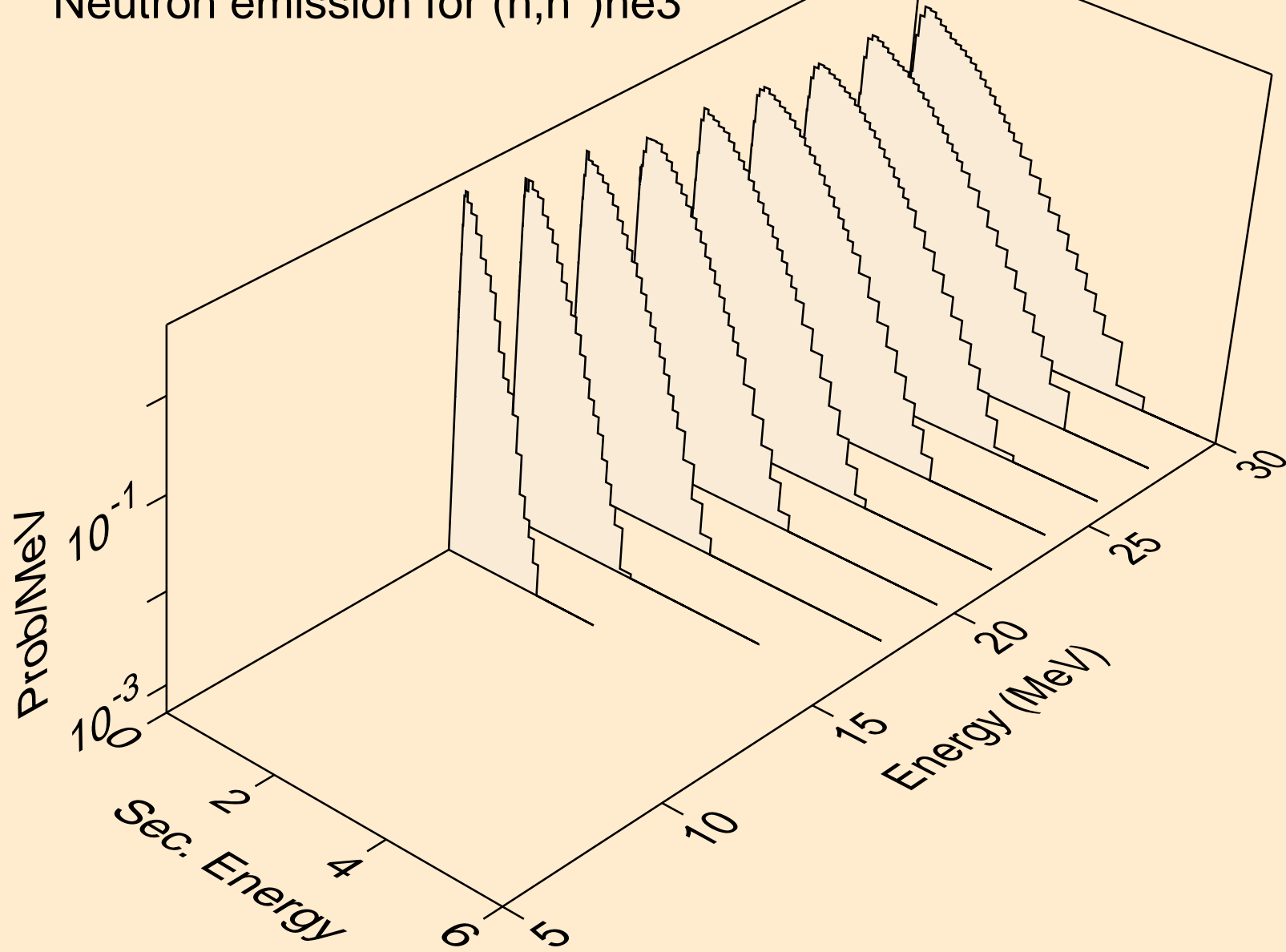
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



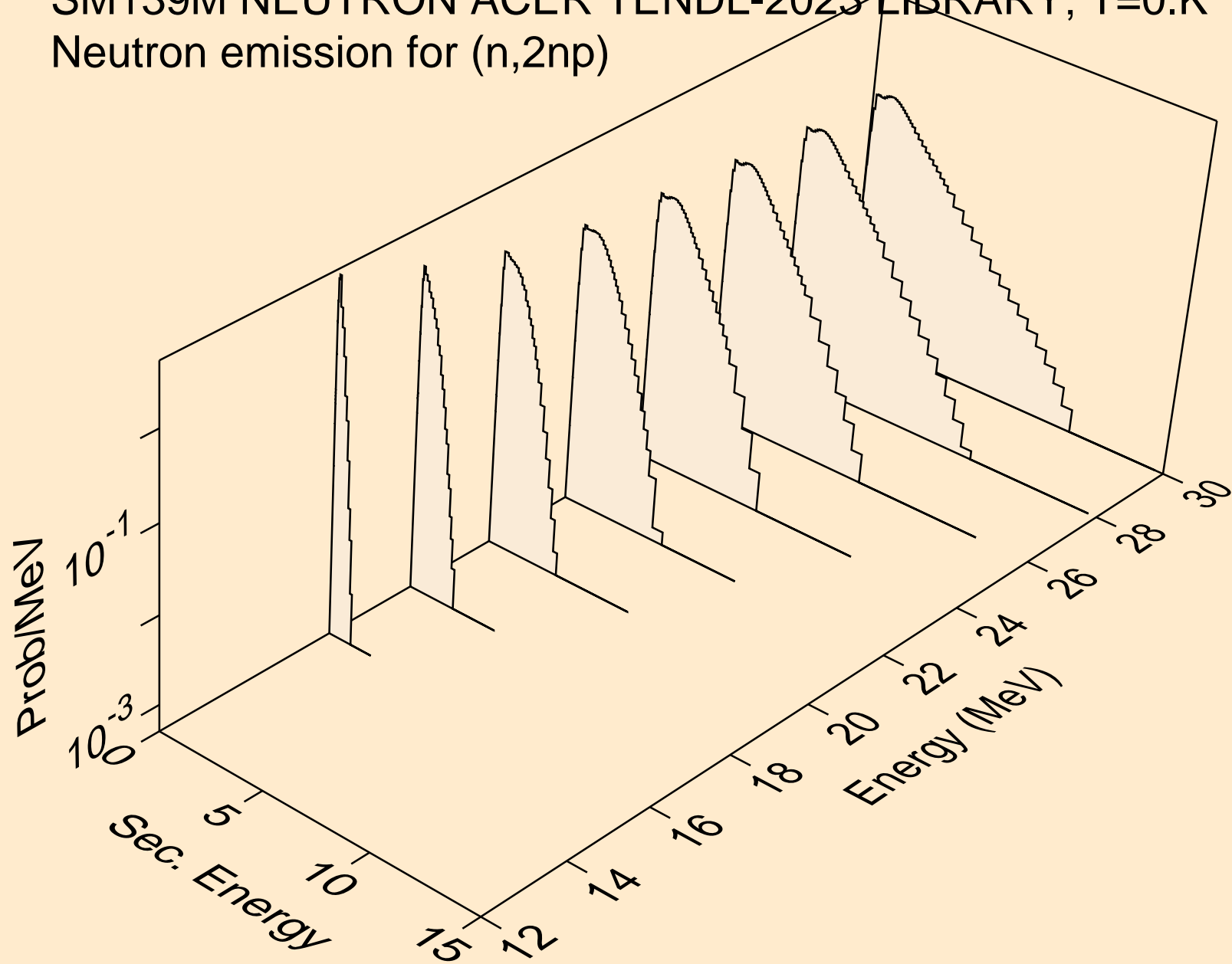
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



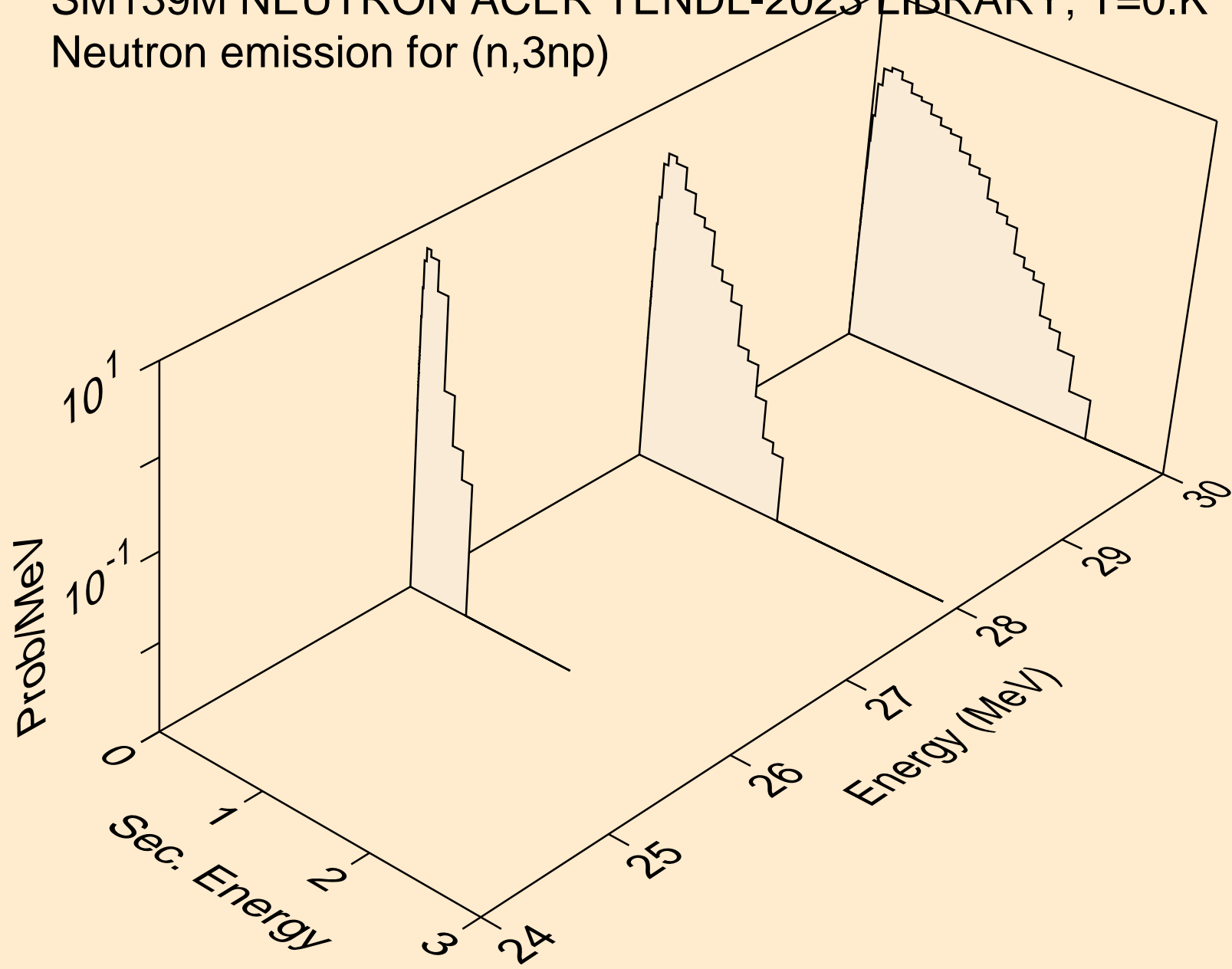
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



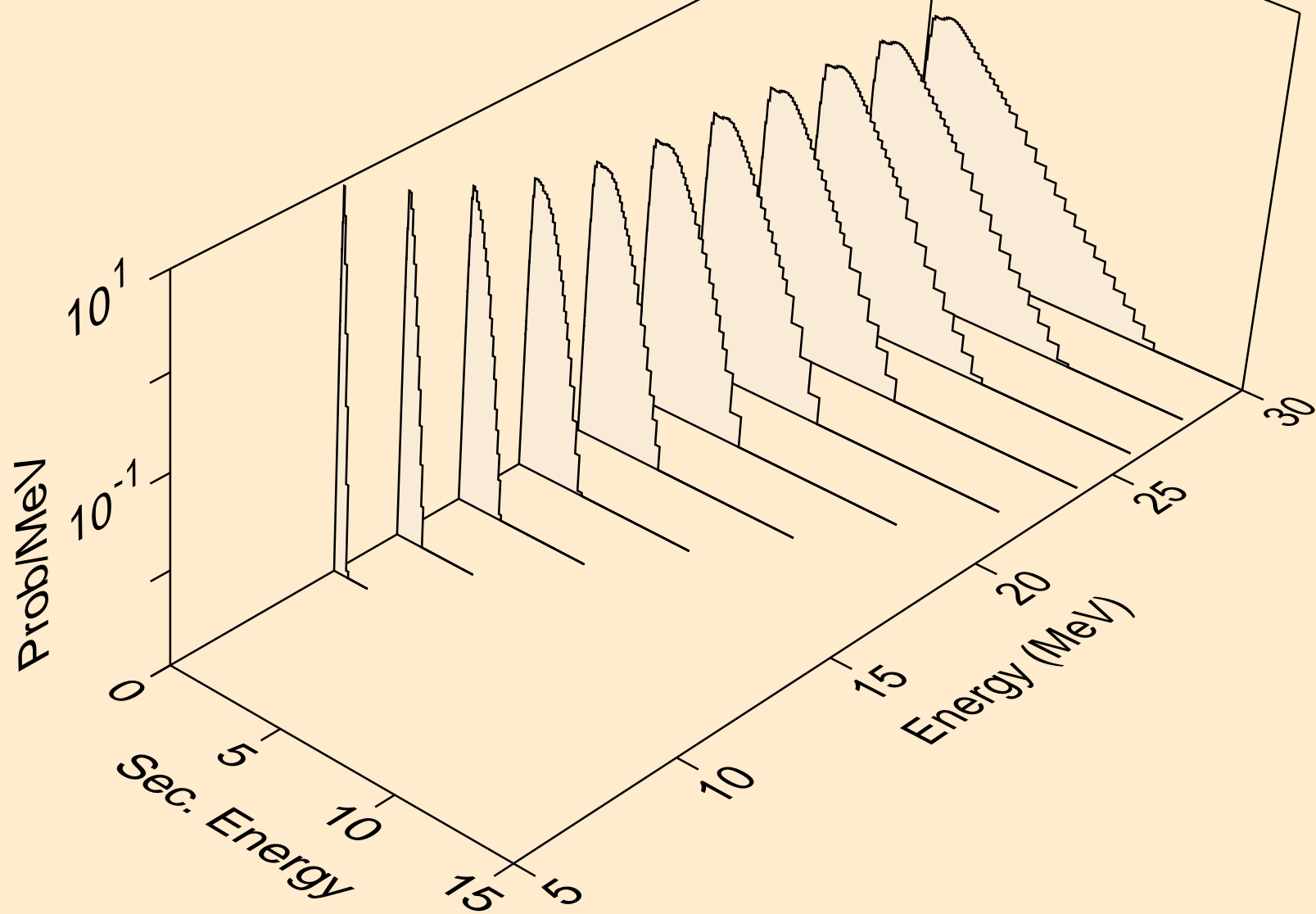
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



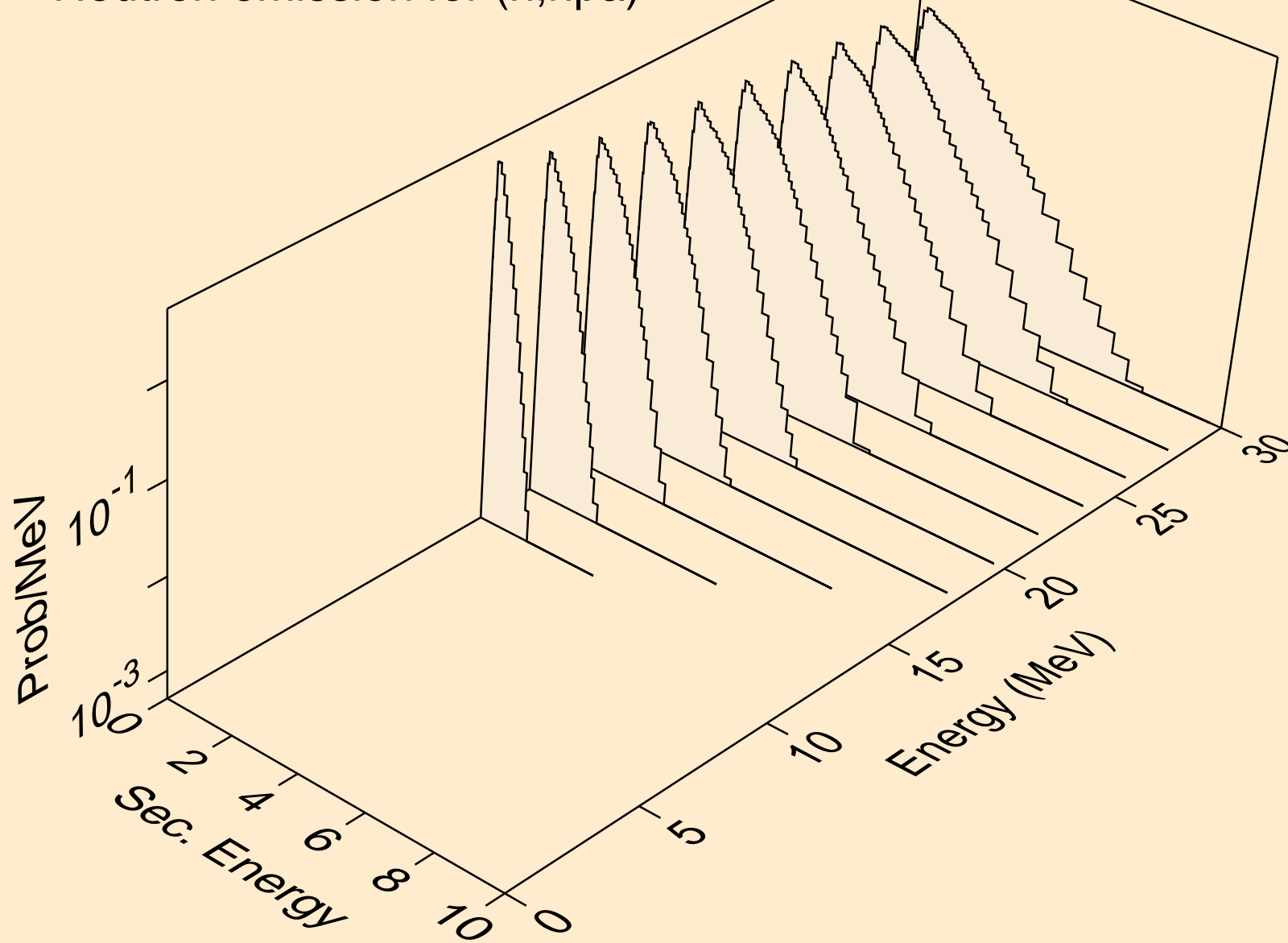
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)



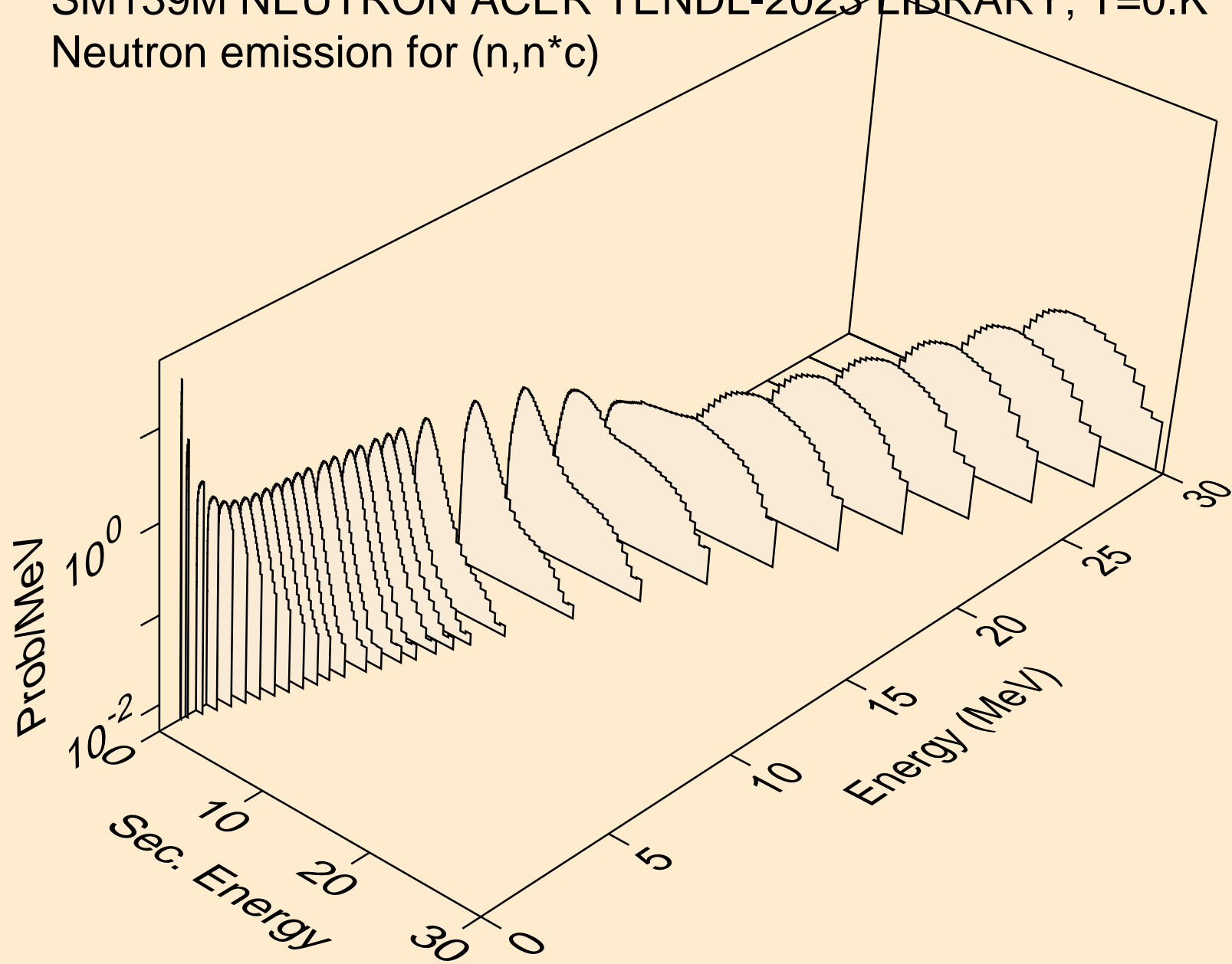
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)



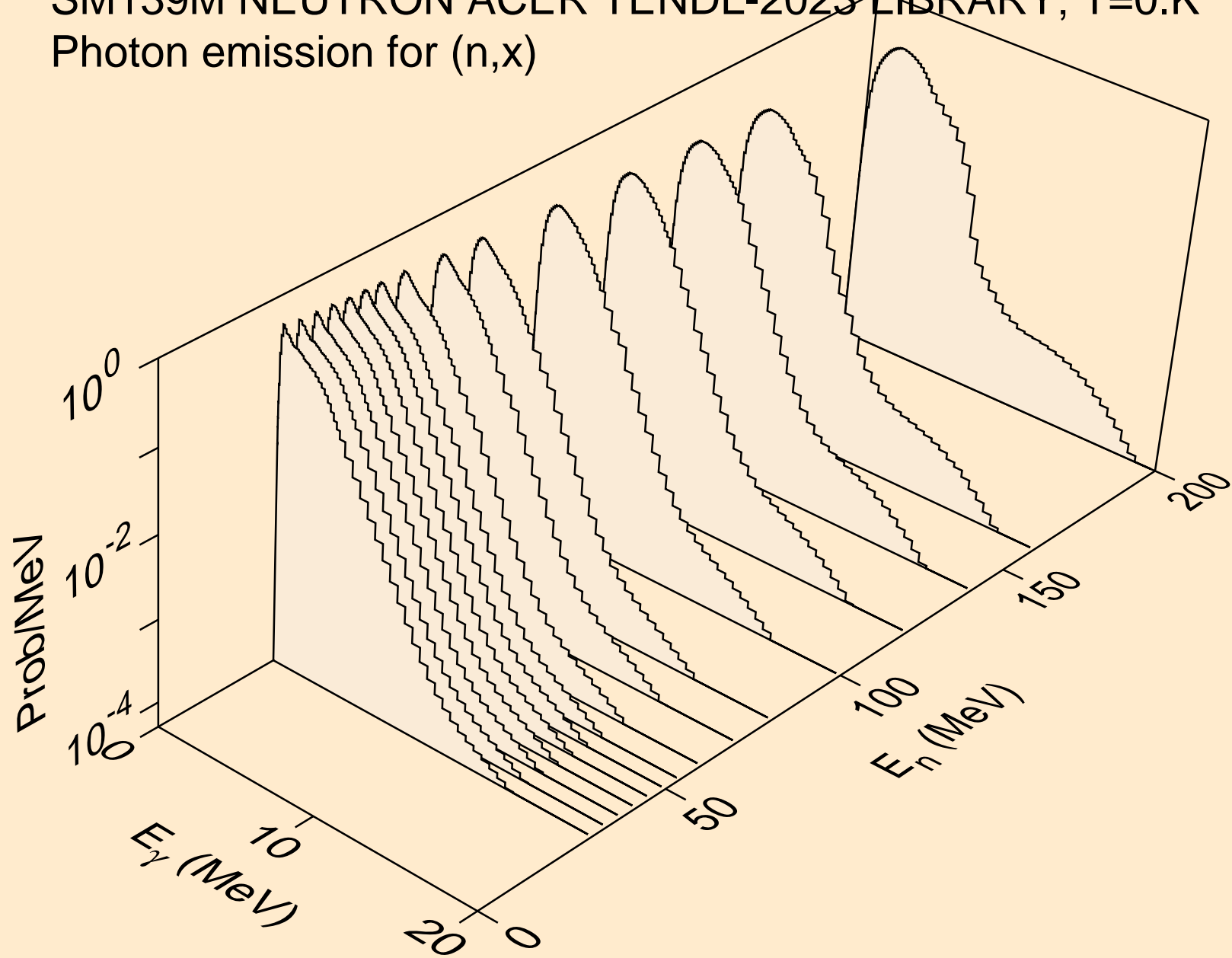
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



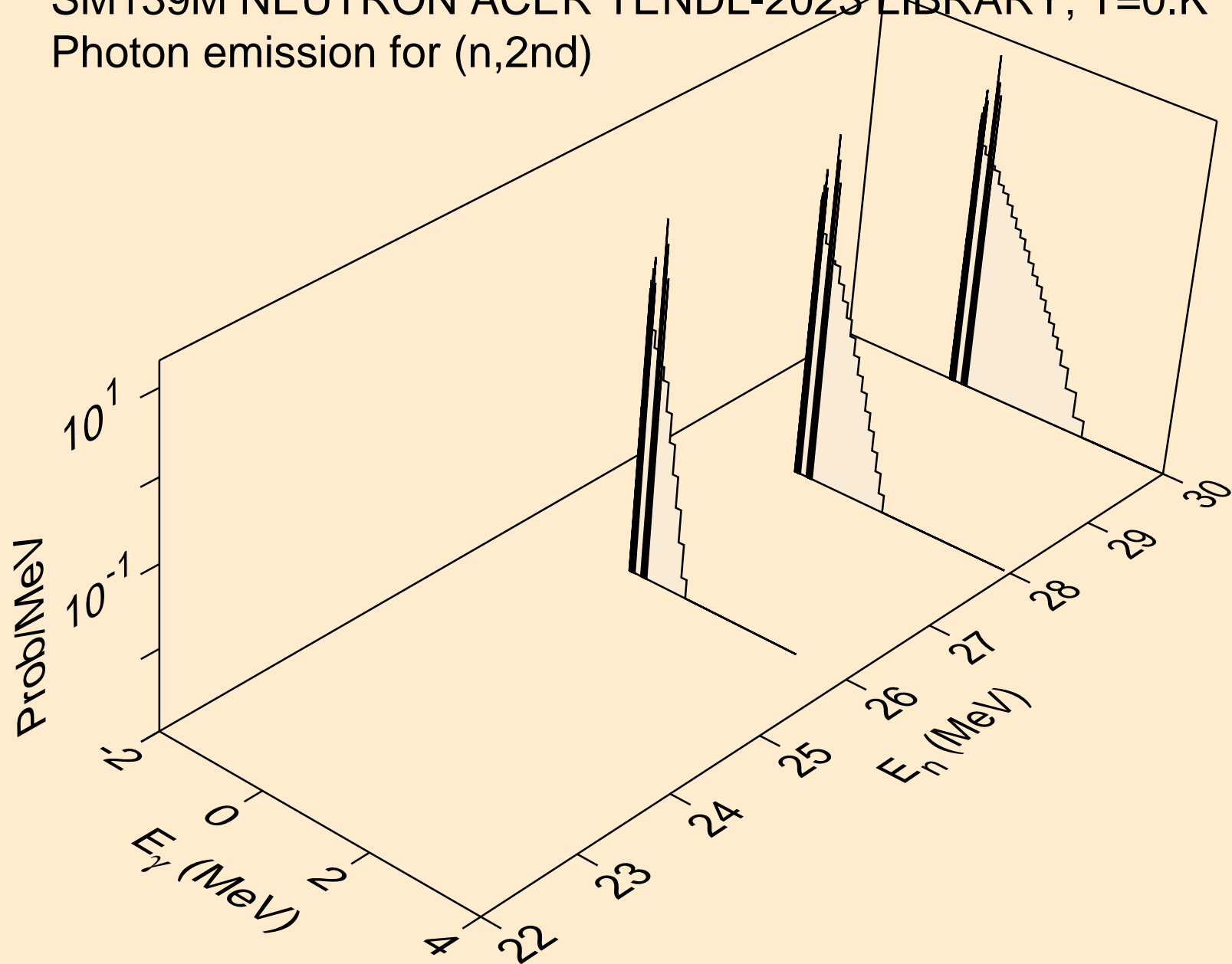
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



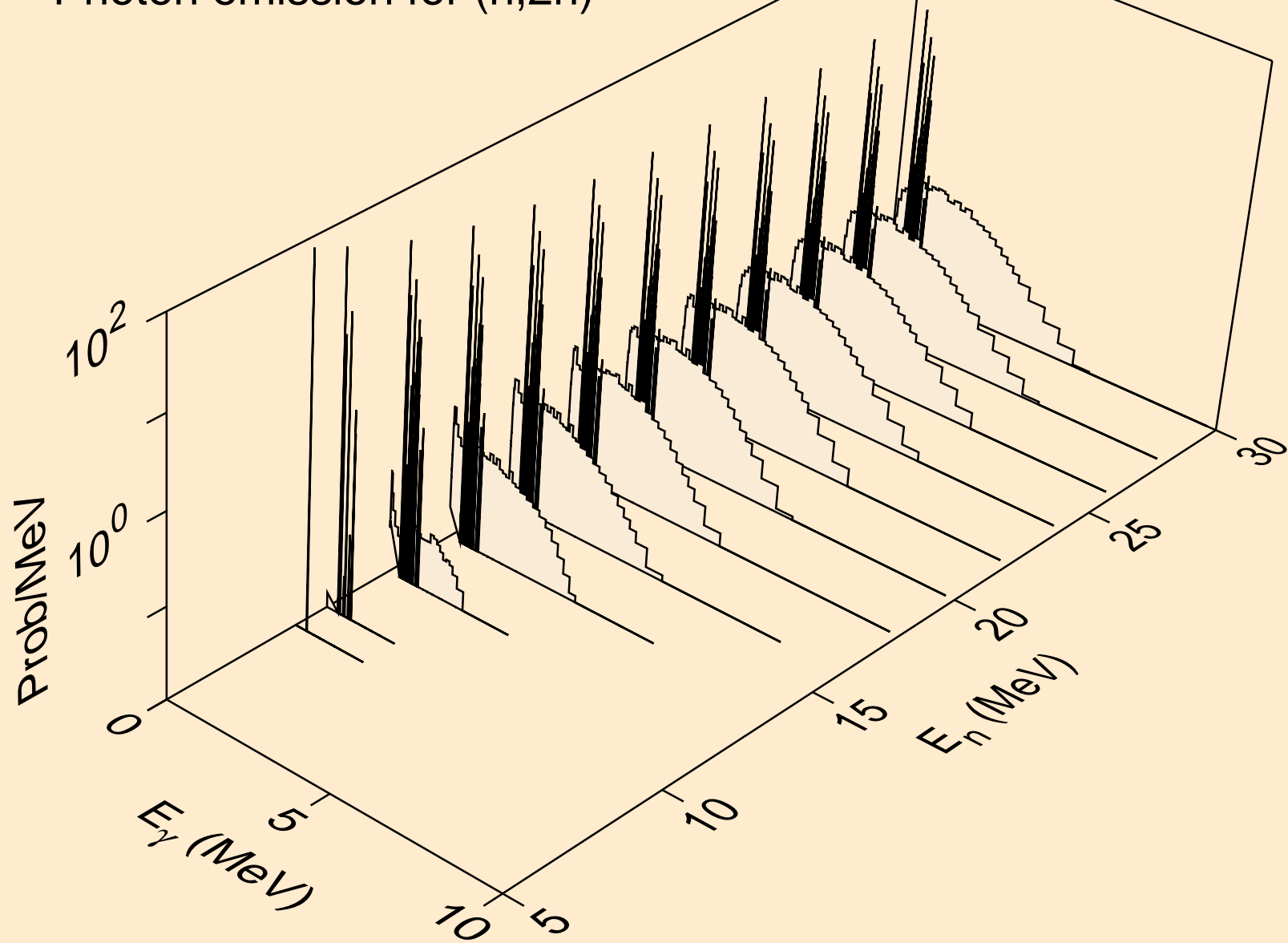
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



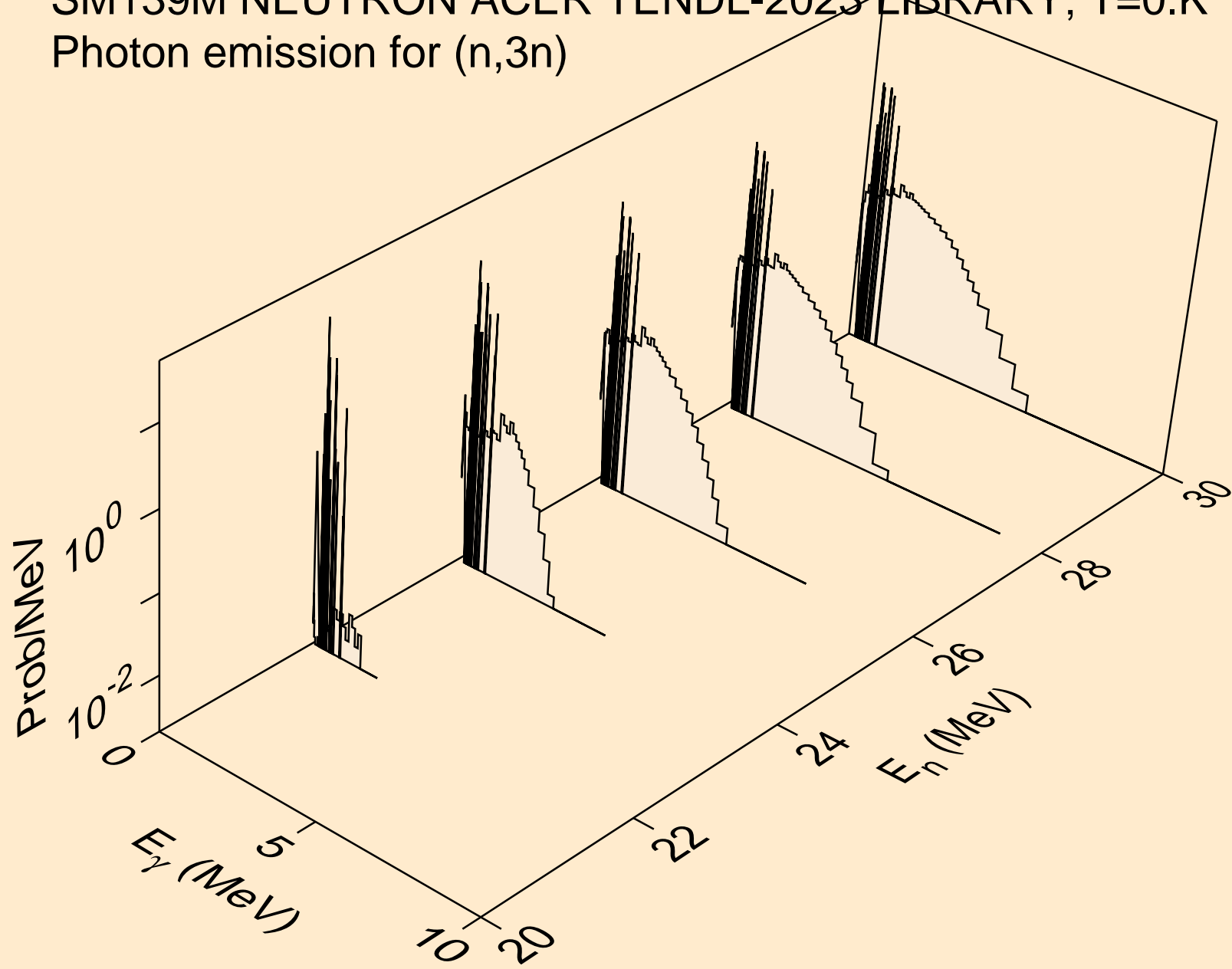
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



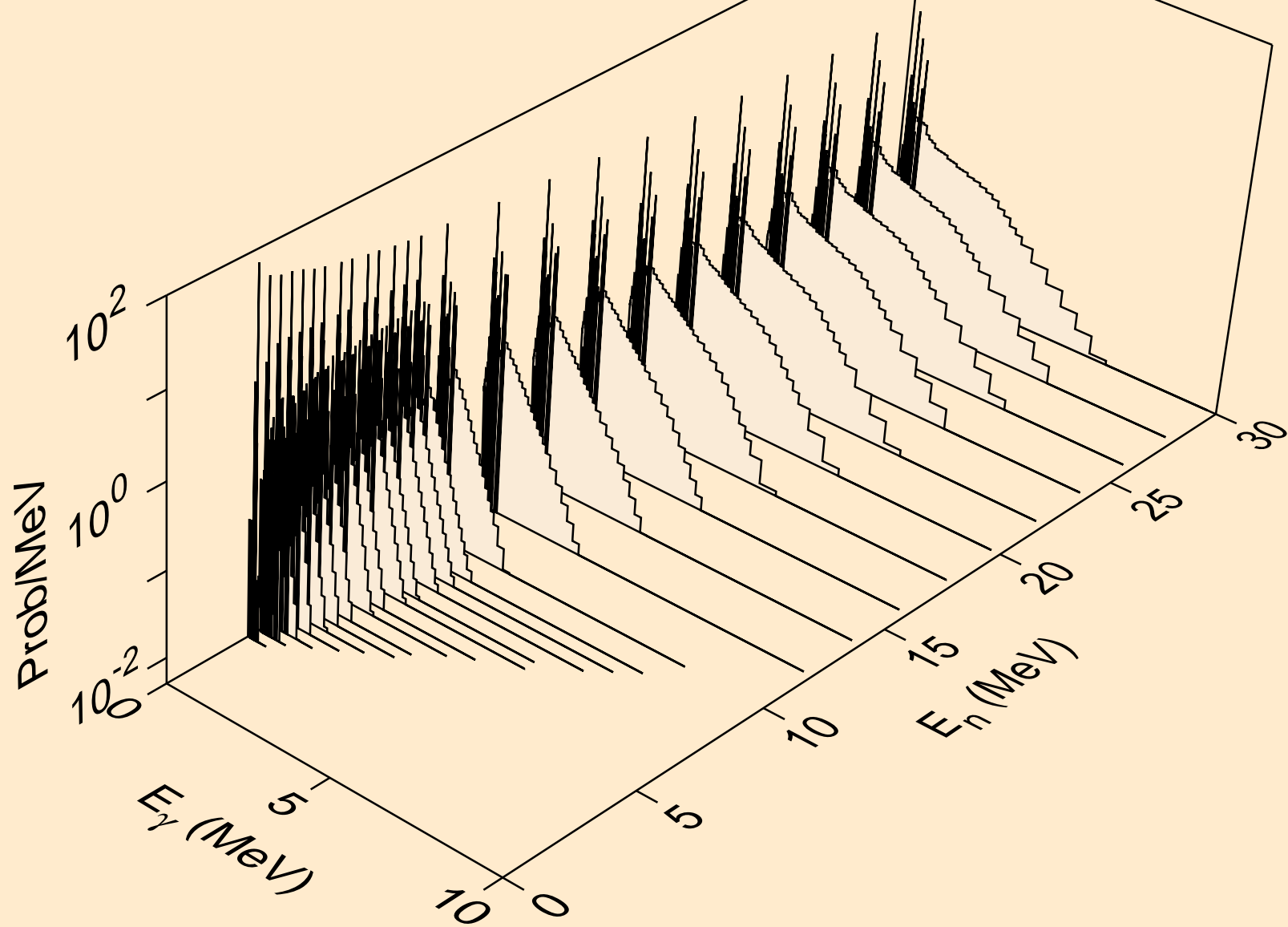
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



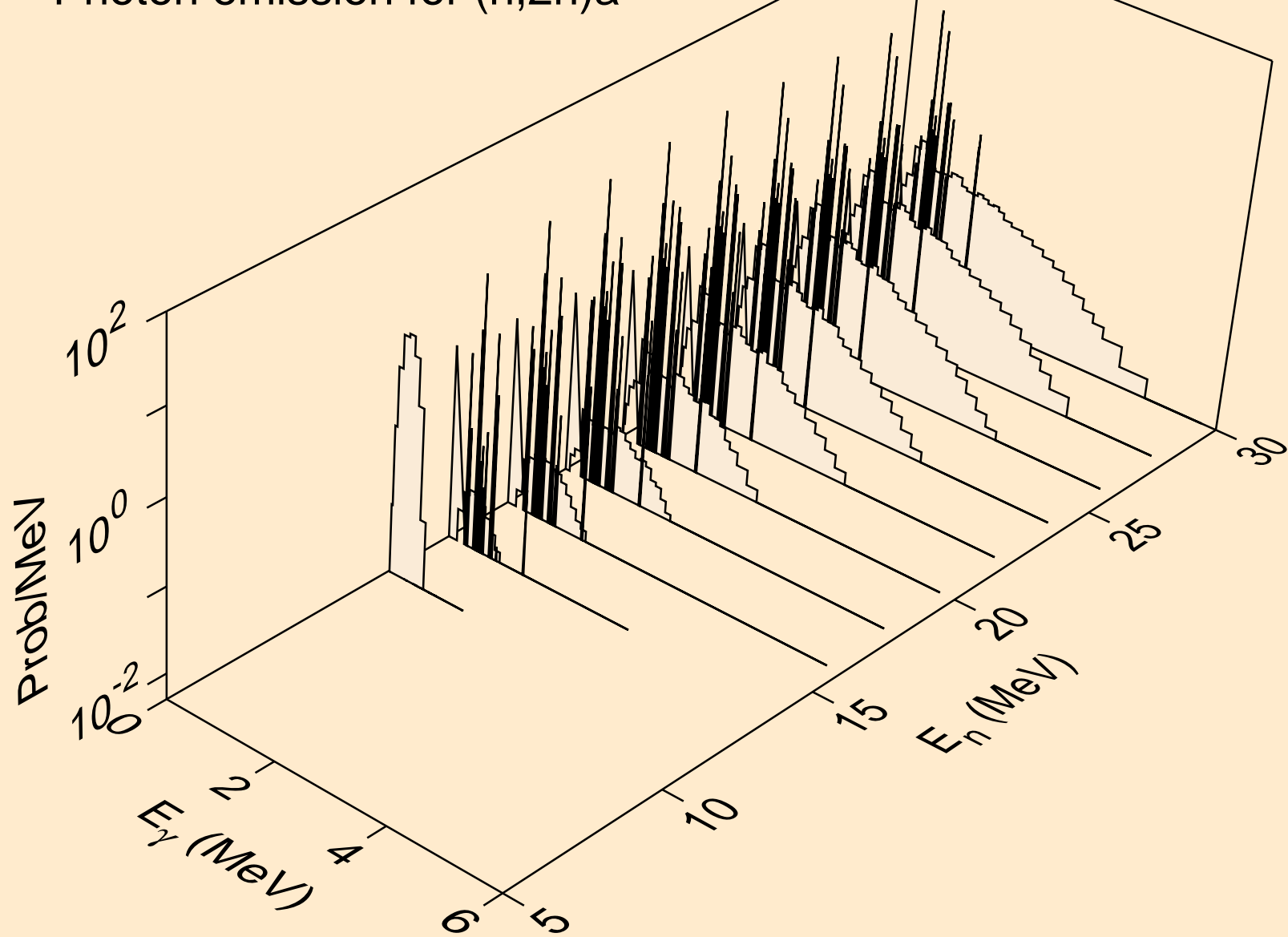
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



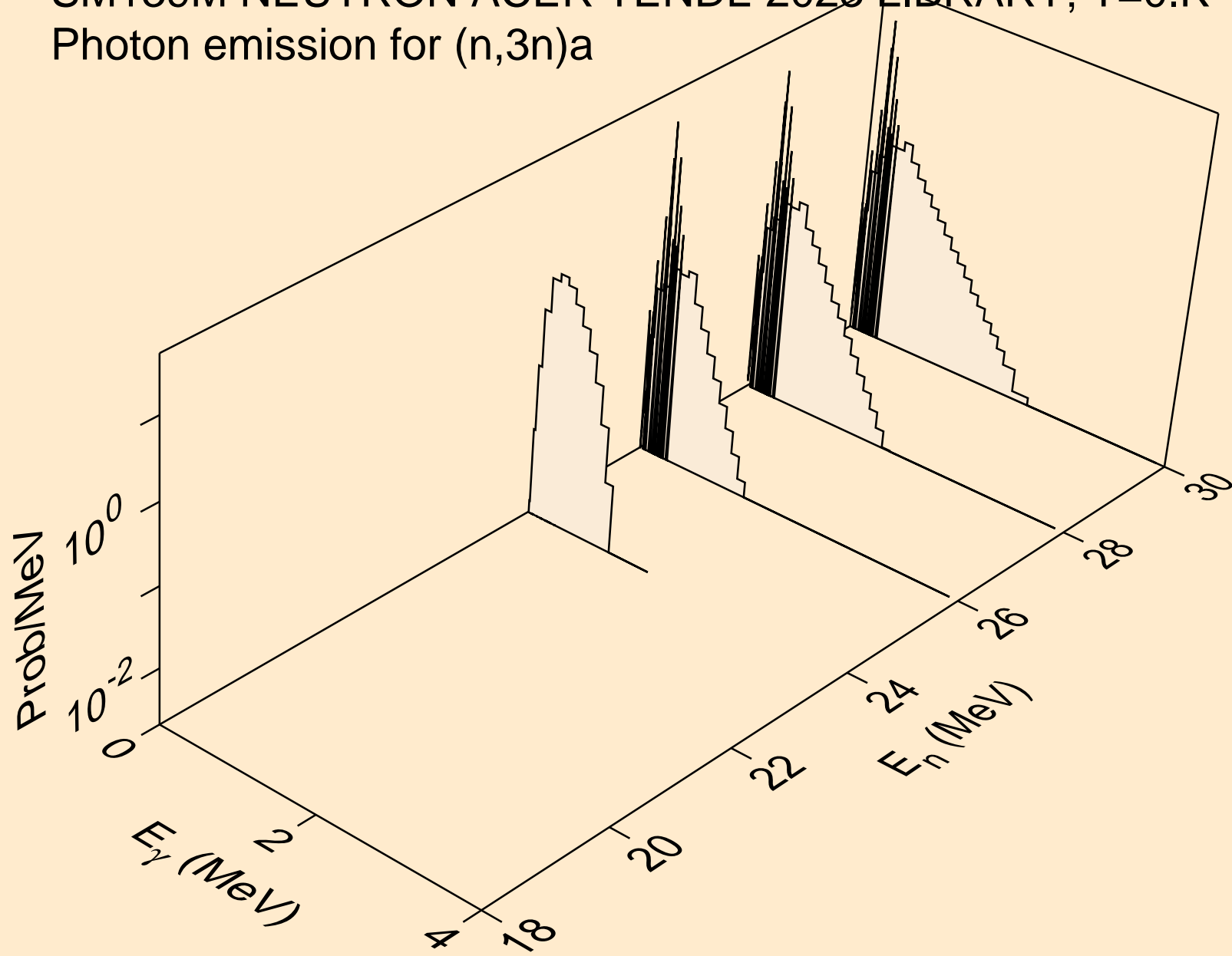
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a



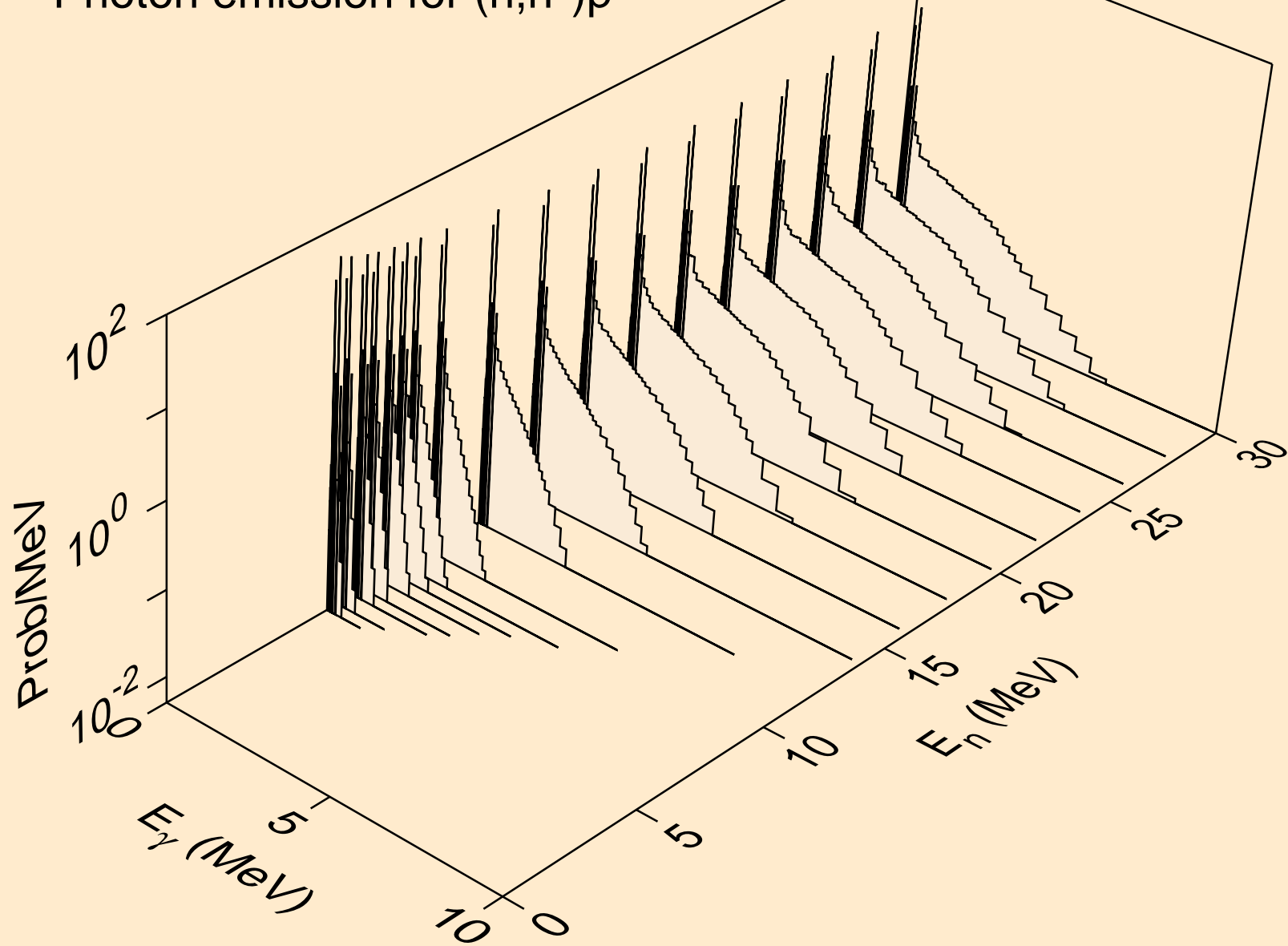
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a



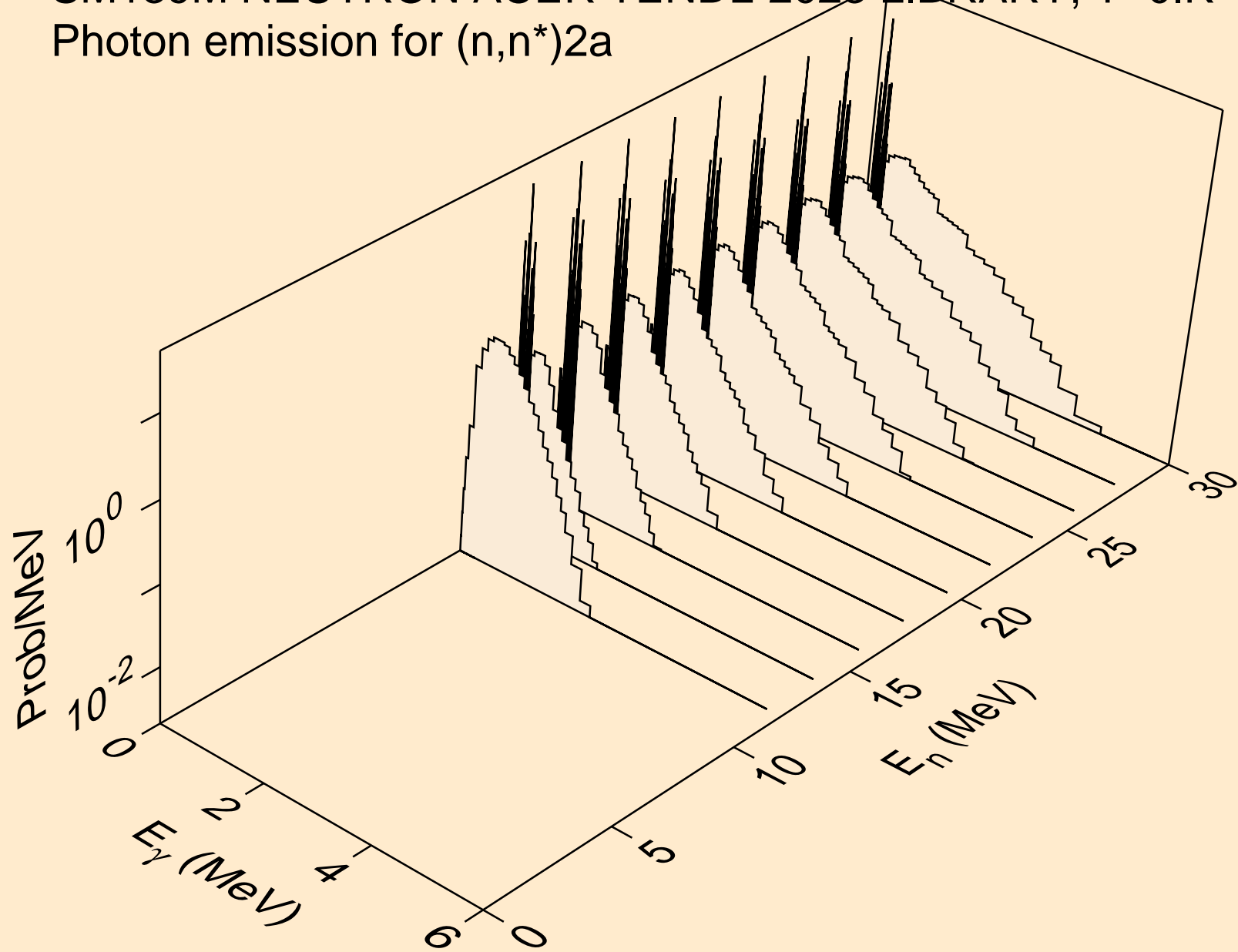
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



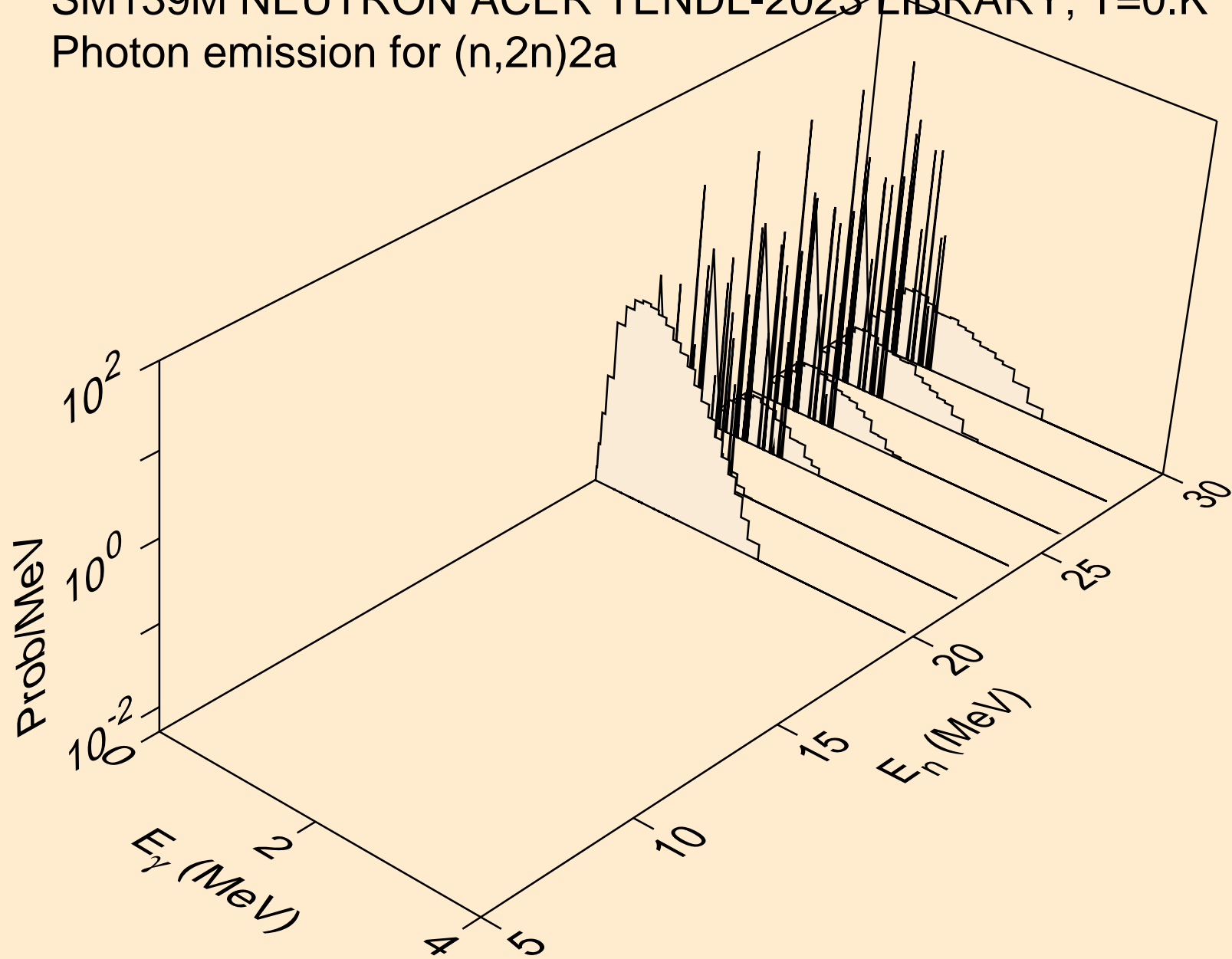
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



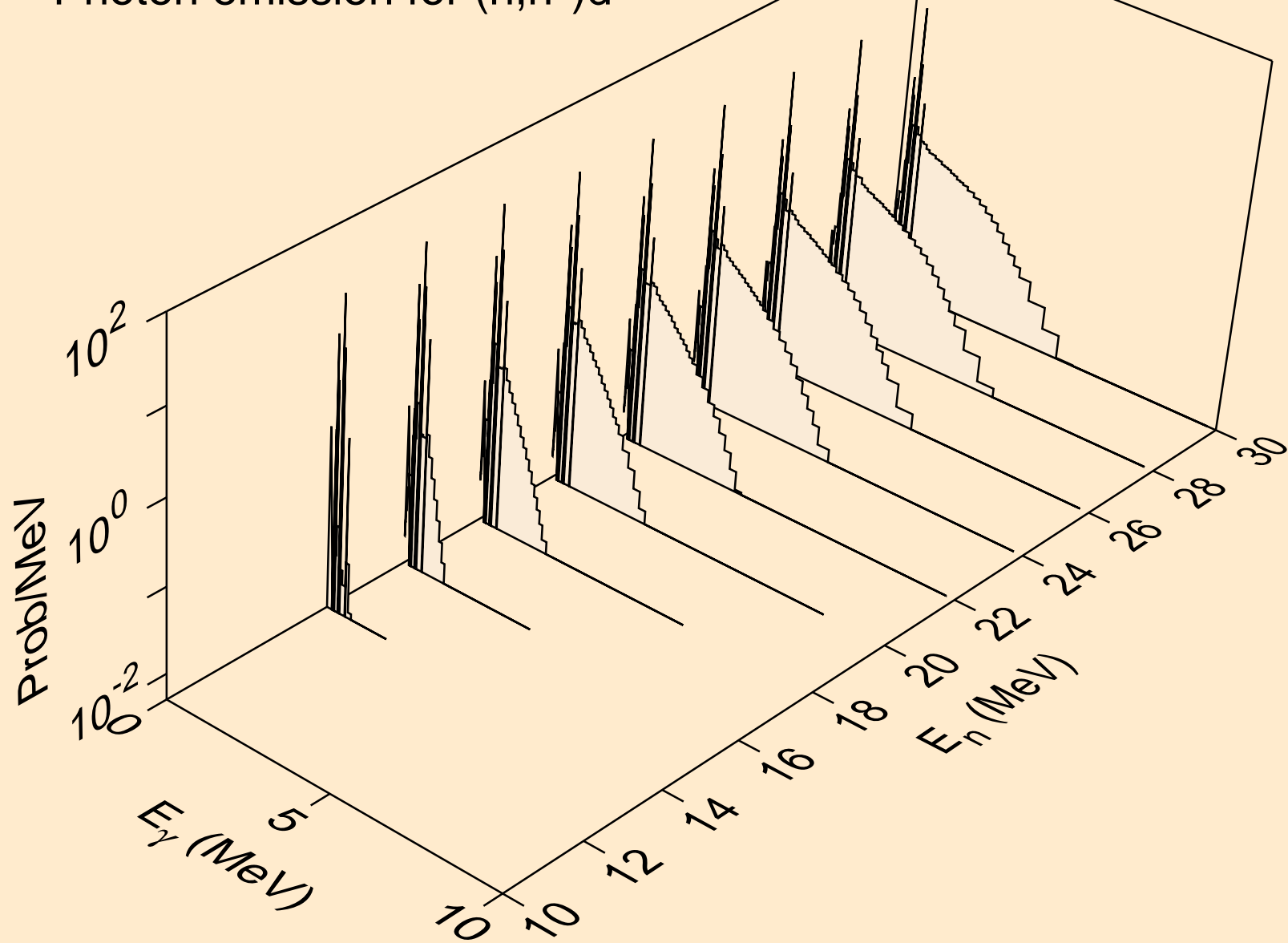
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



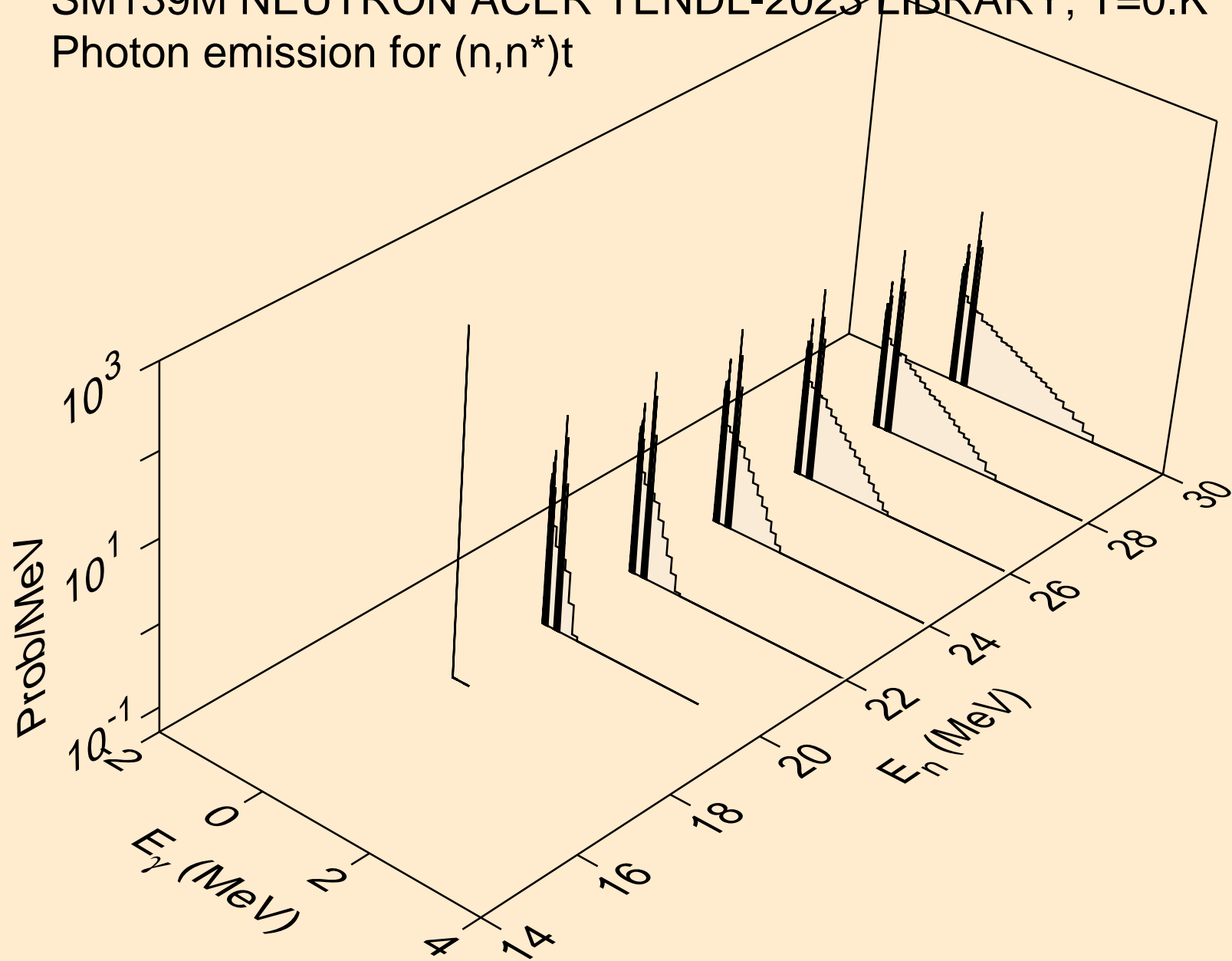
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)2a



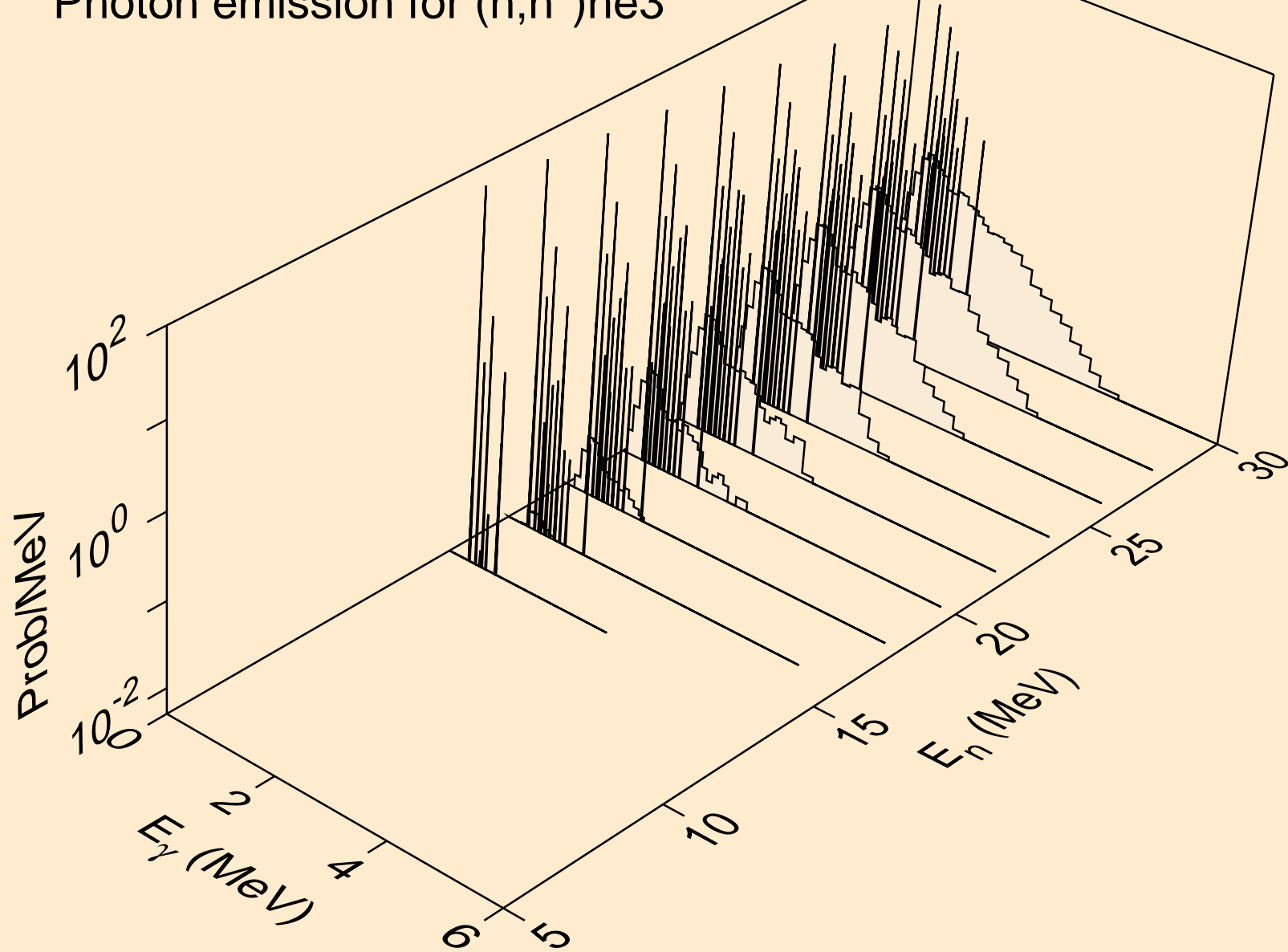
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



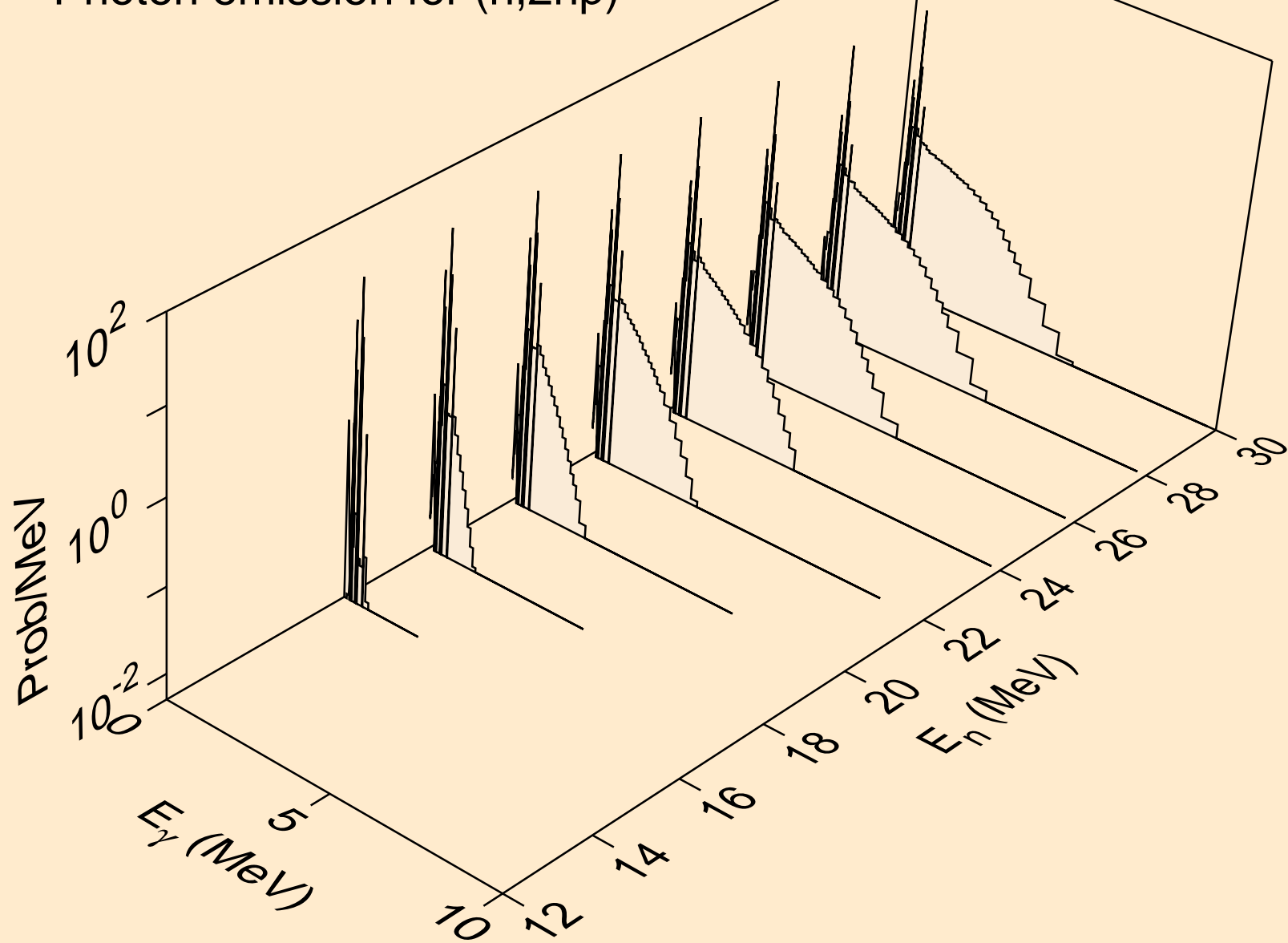
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



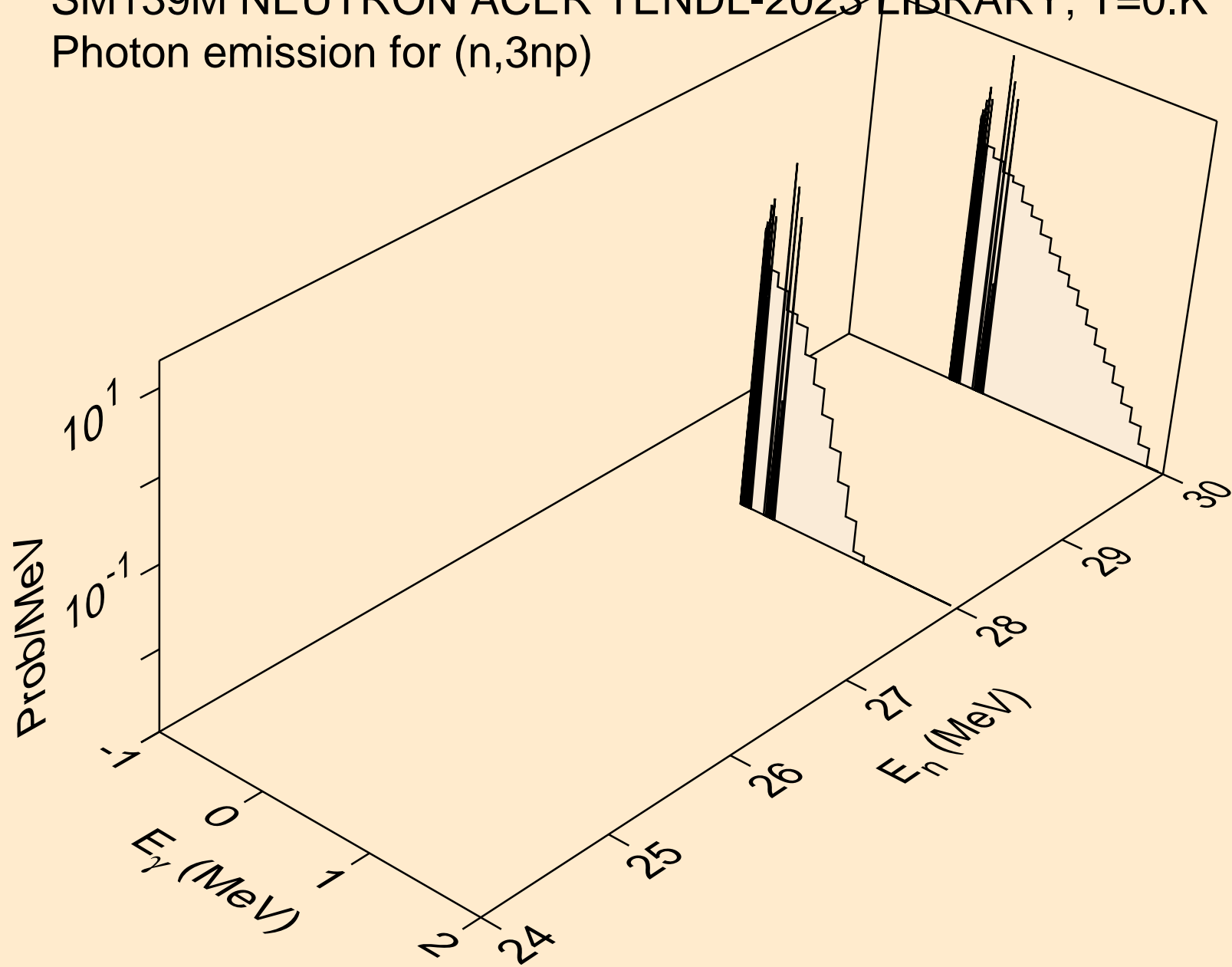
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



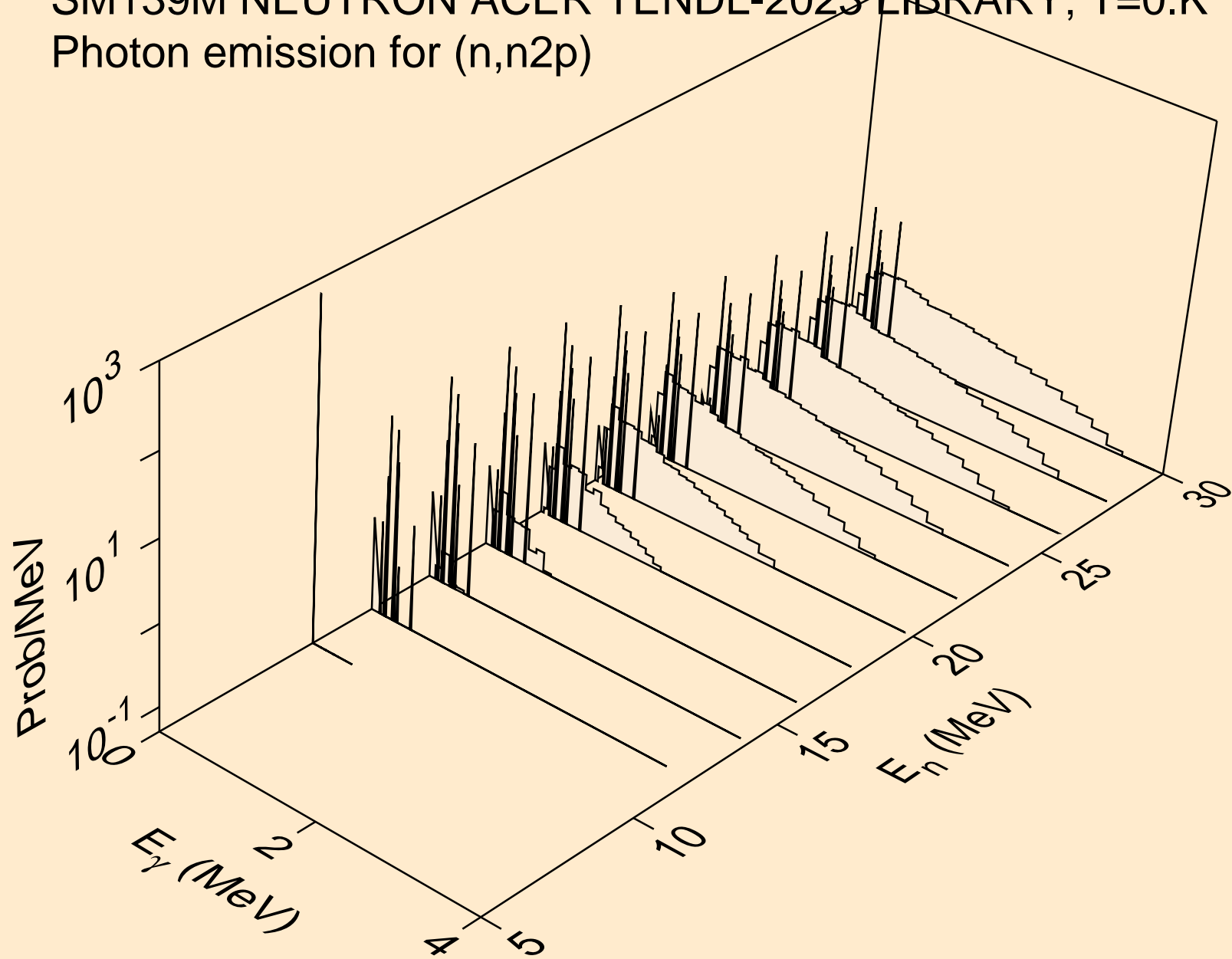
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)



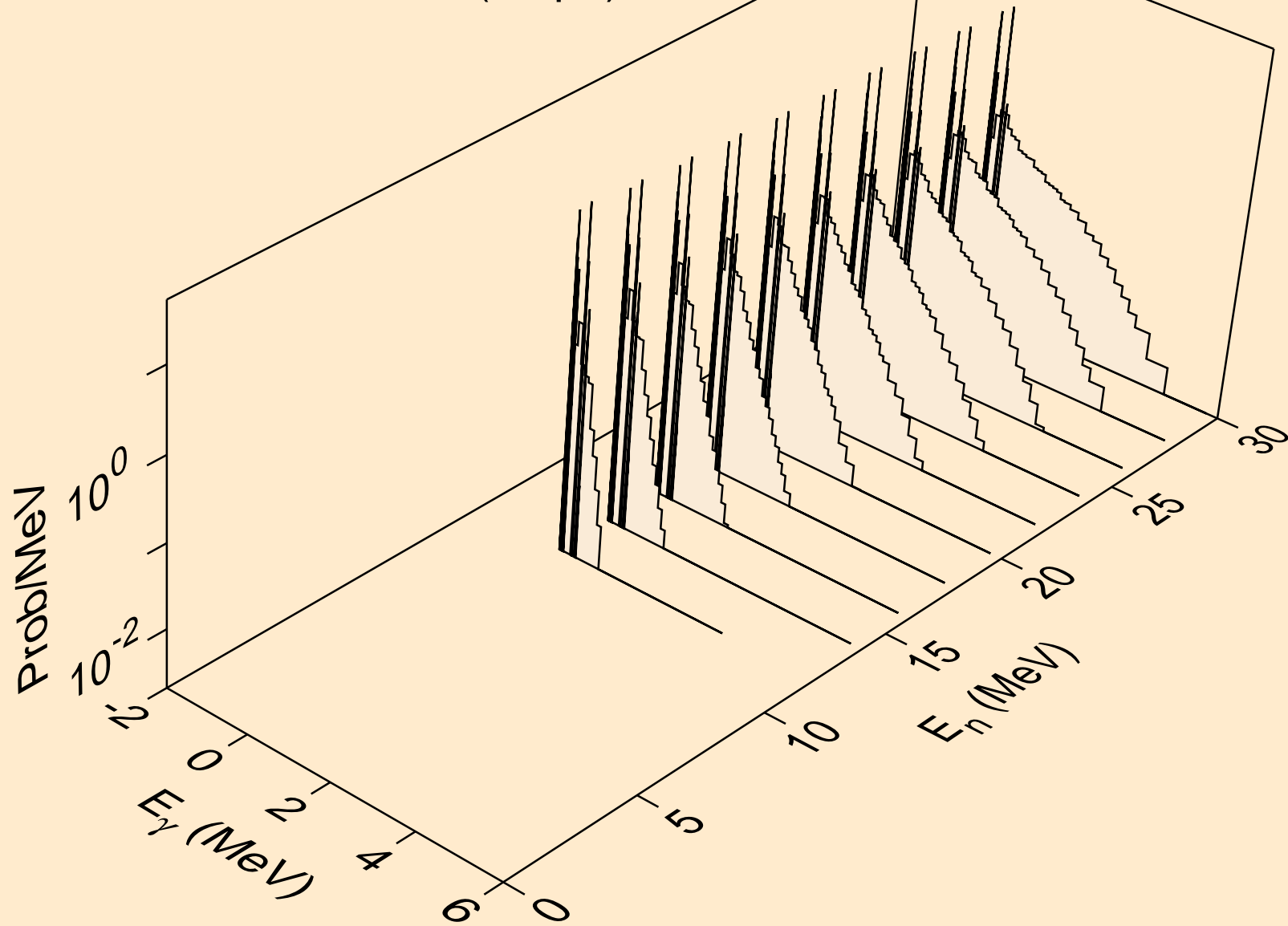
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



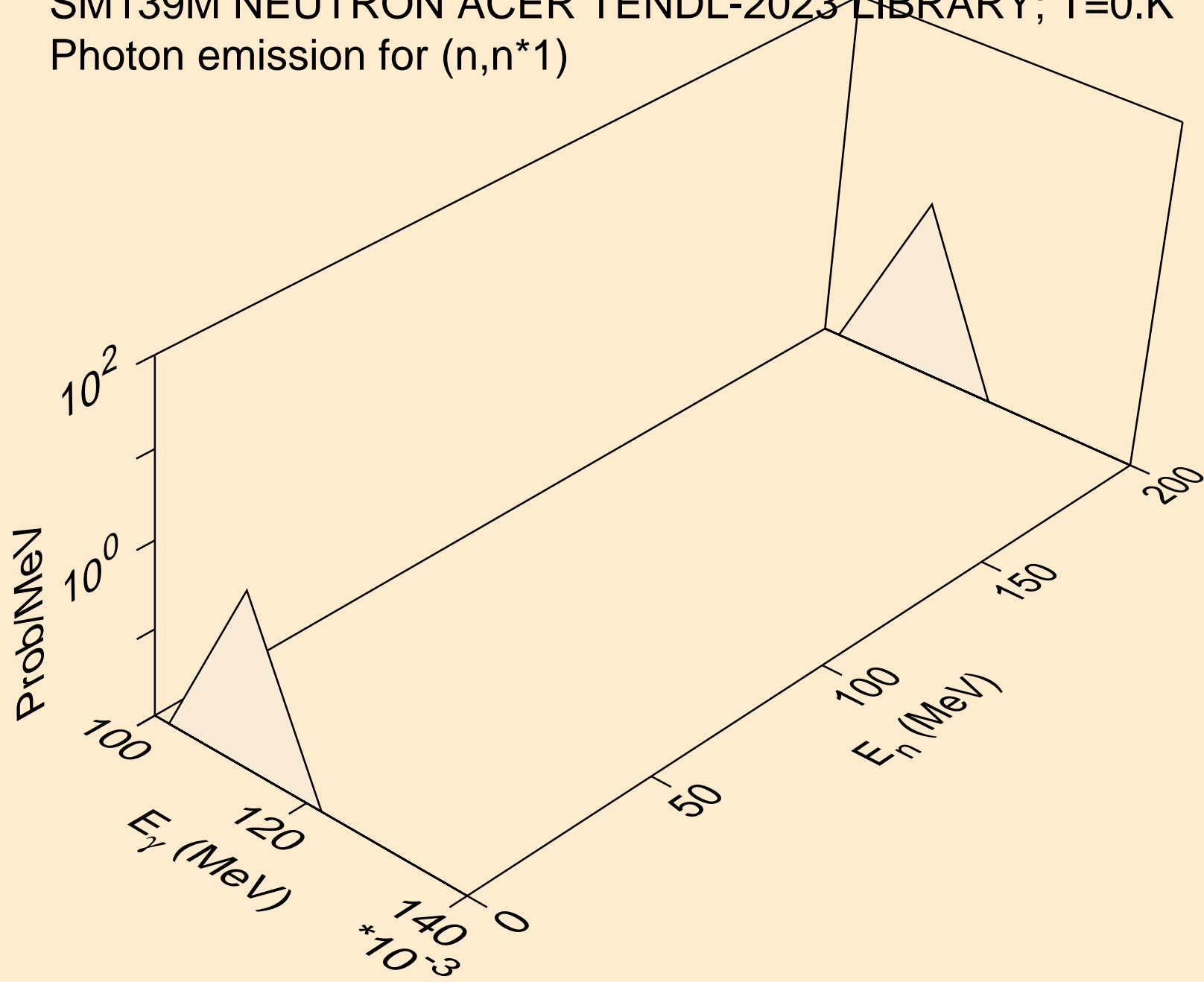
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



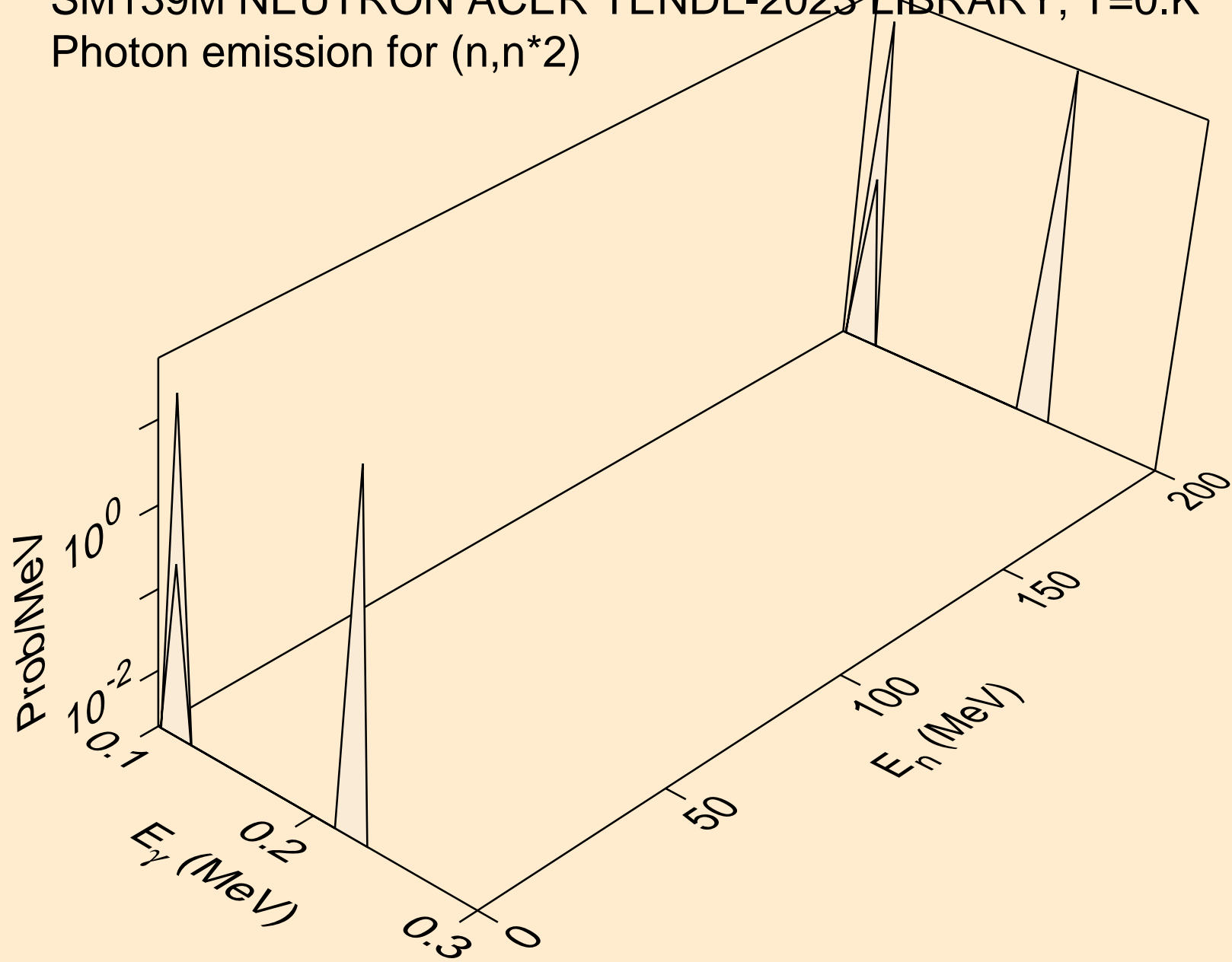
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



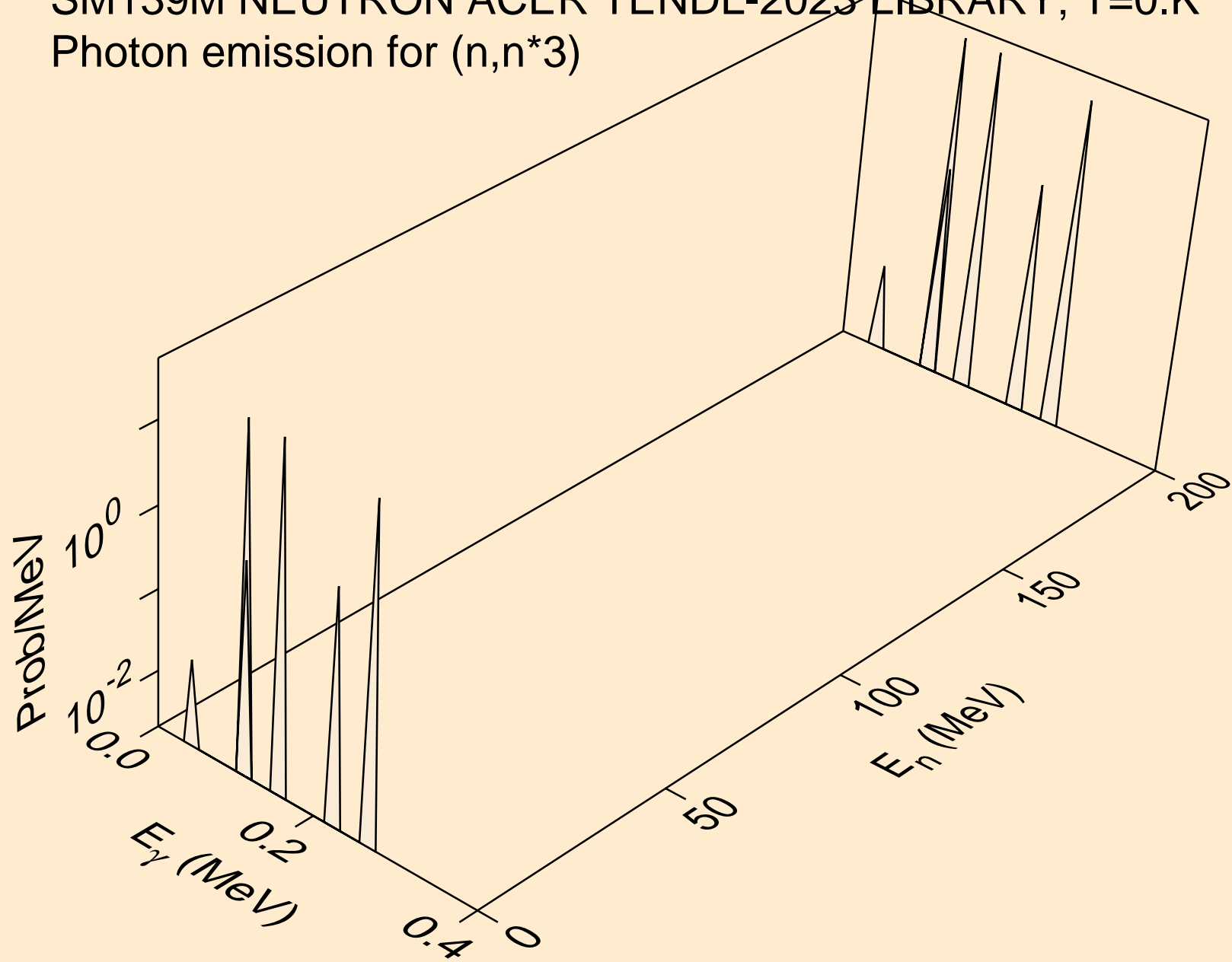
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*1)



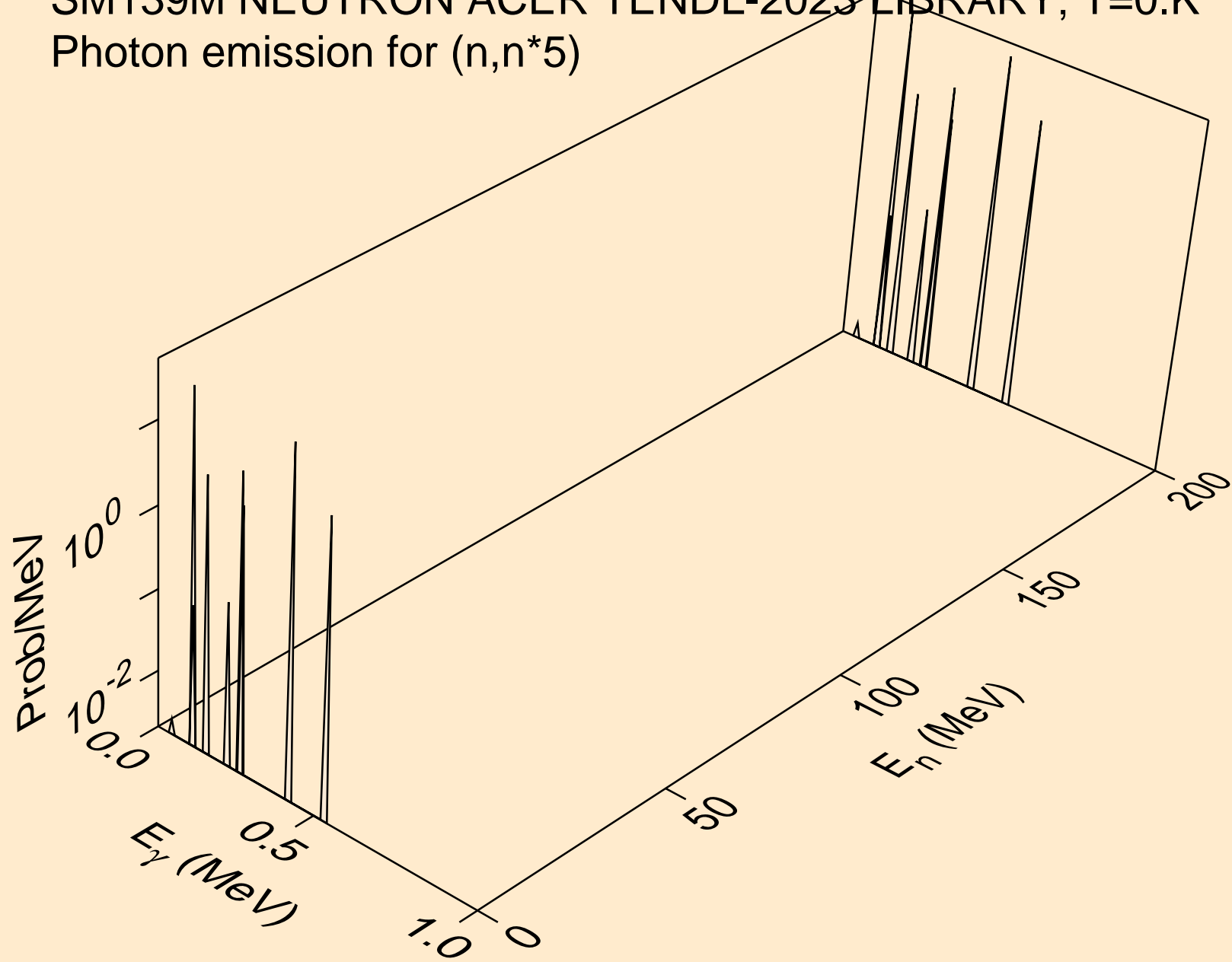
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*2)



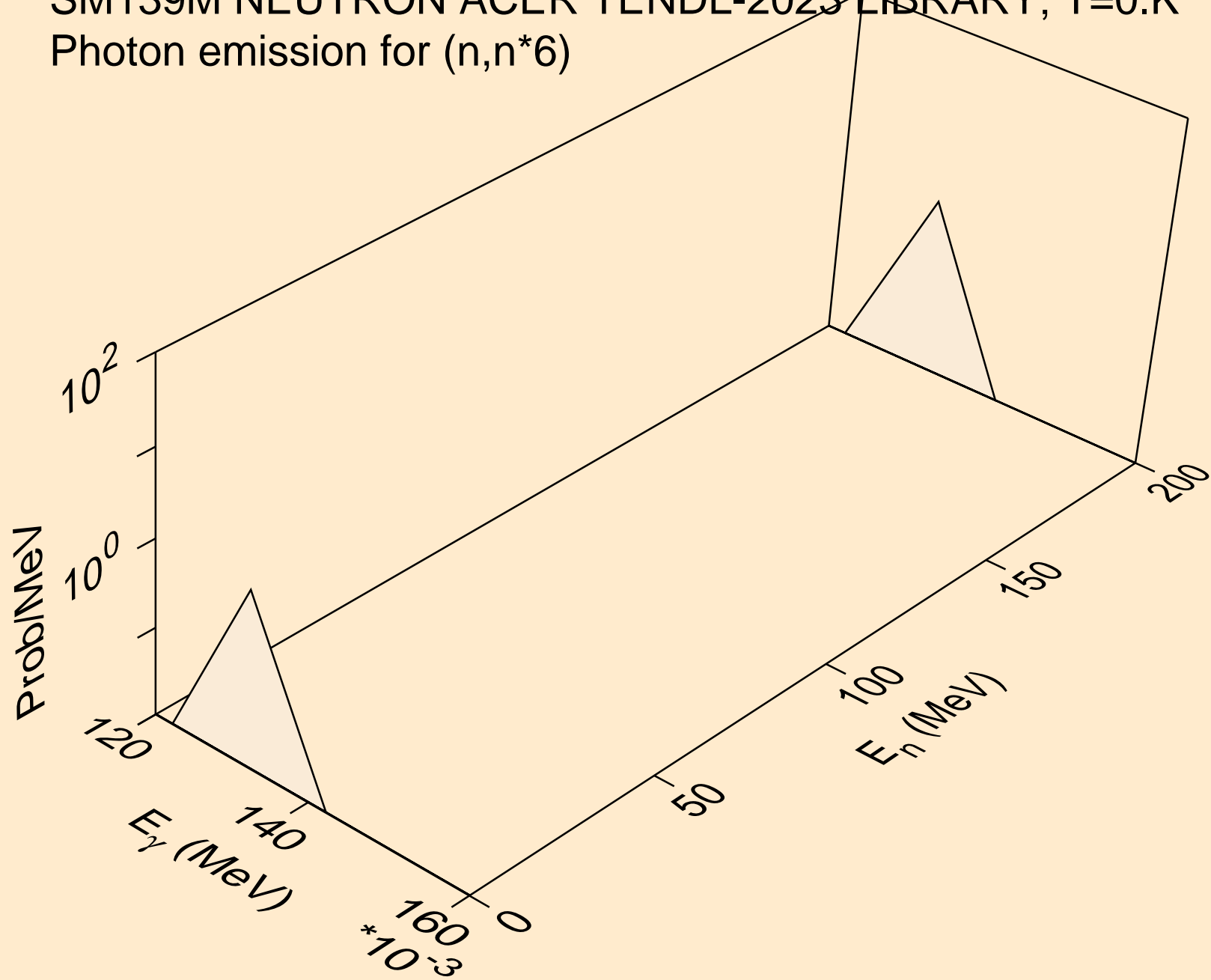
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*3)



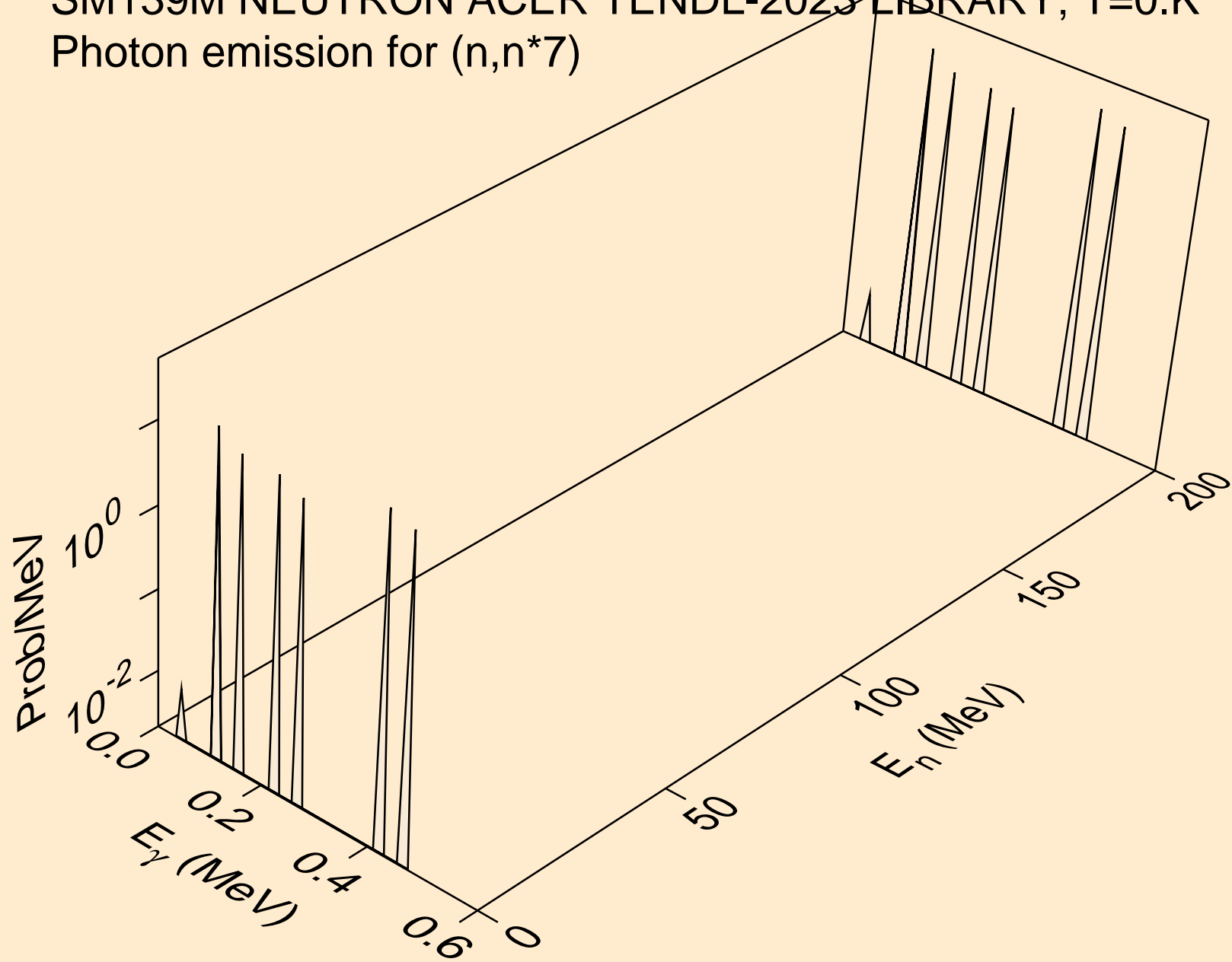
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*5)



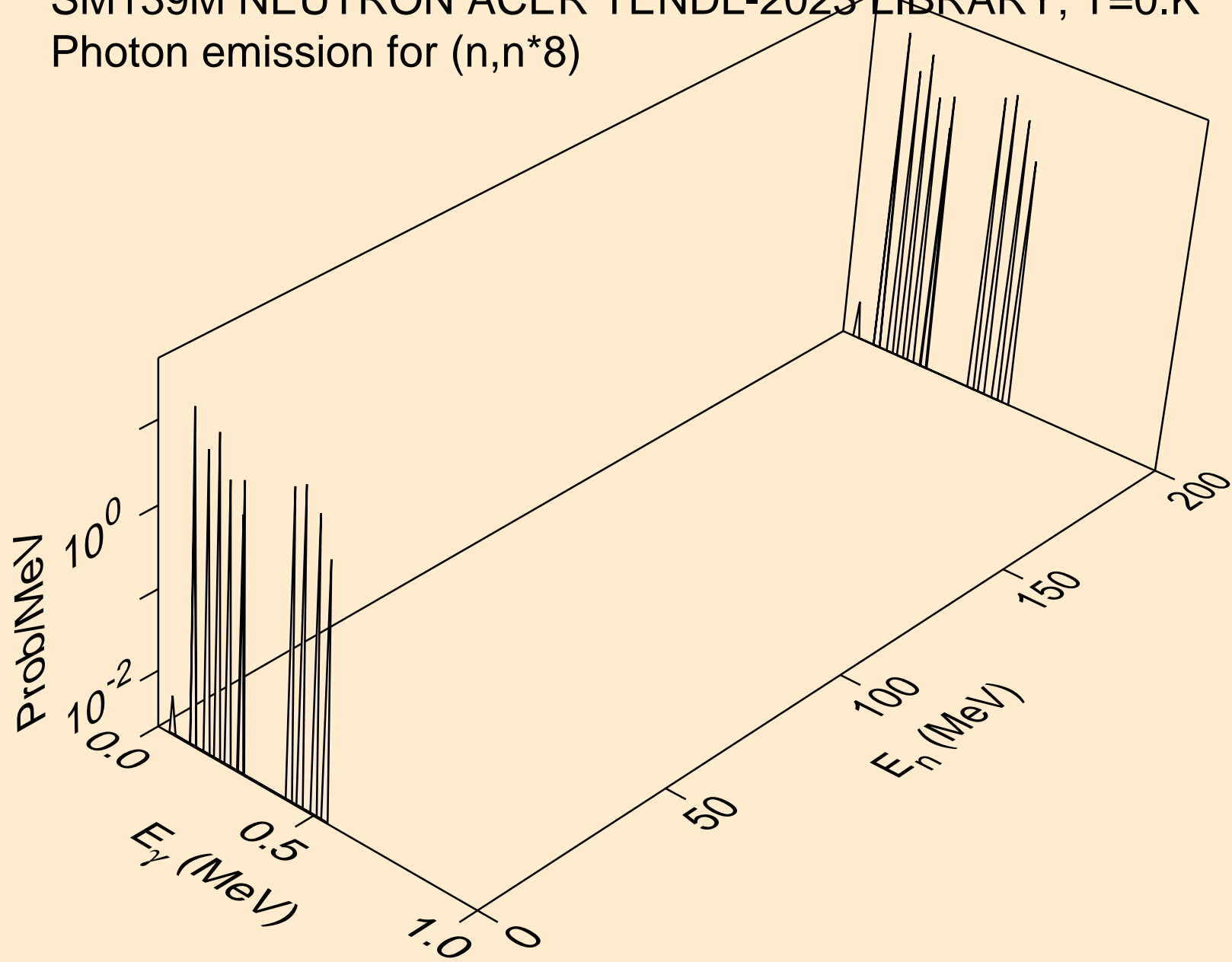
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*6)



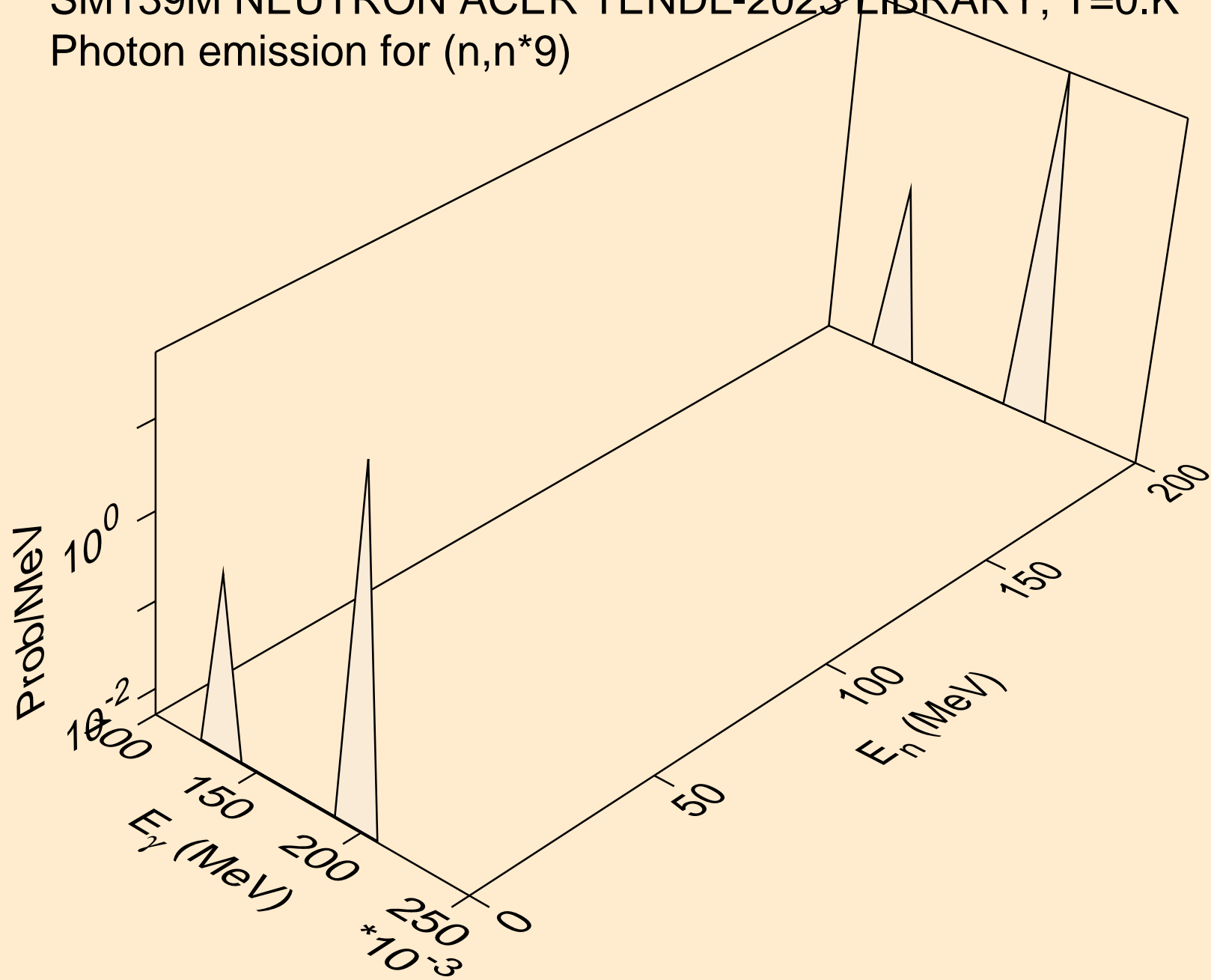
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*7)



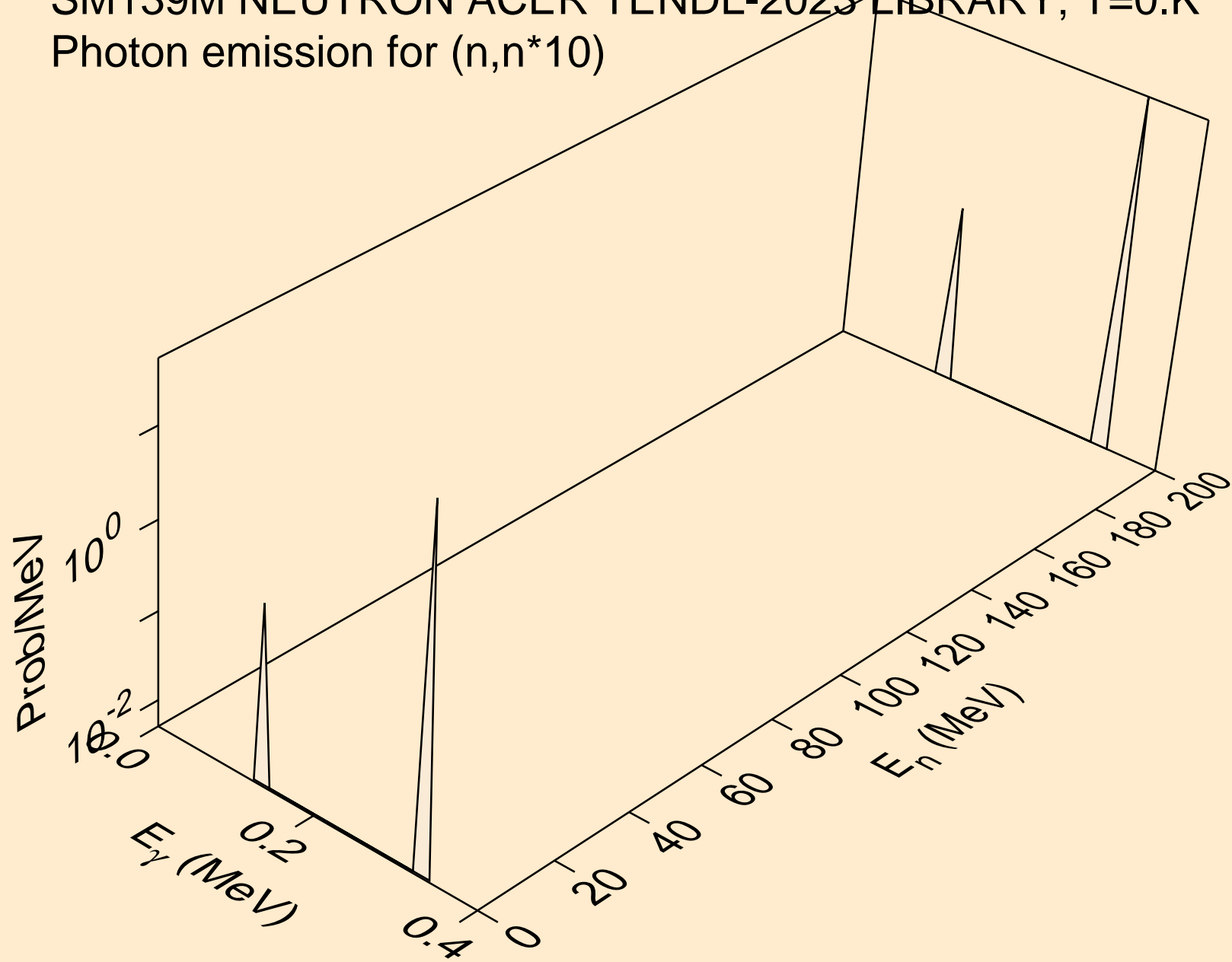
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*8)



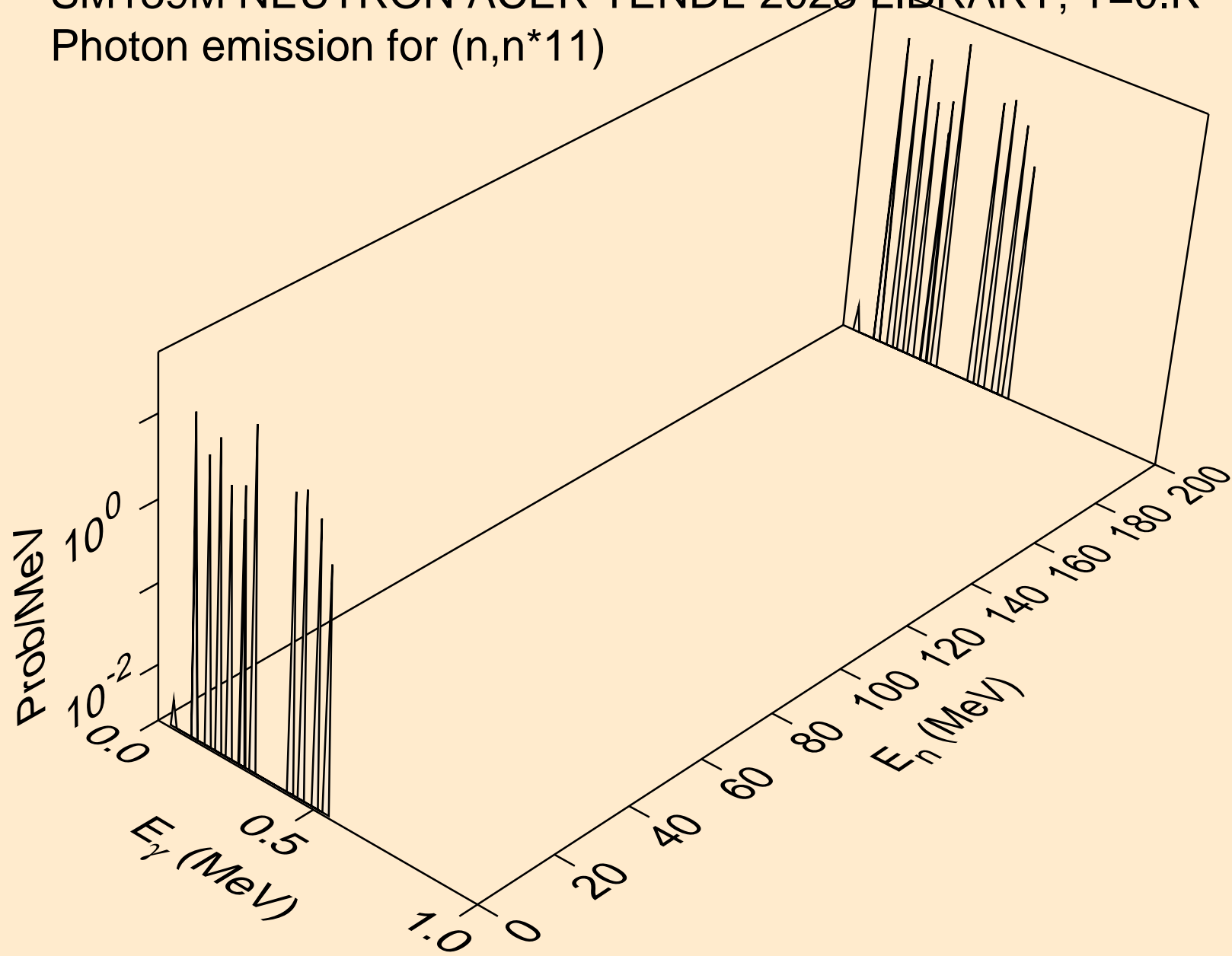
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*9)



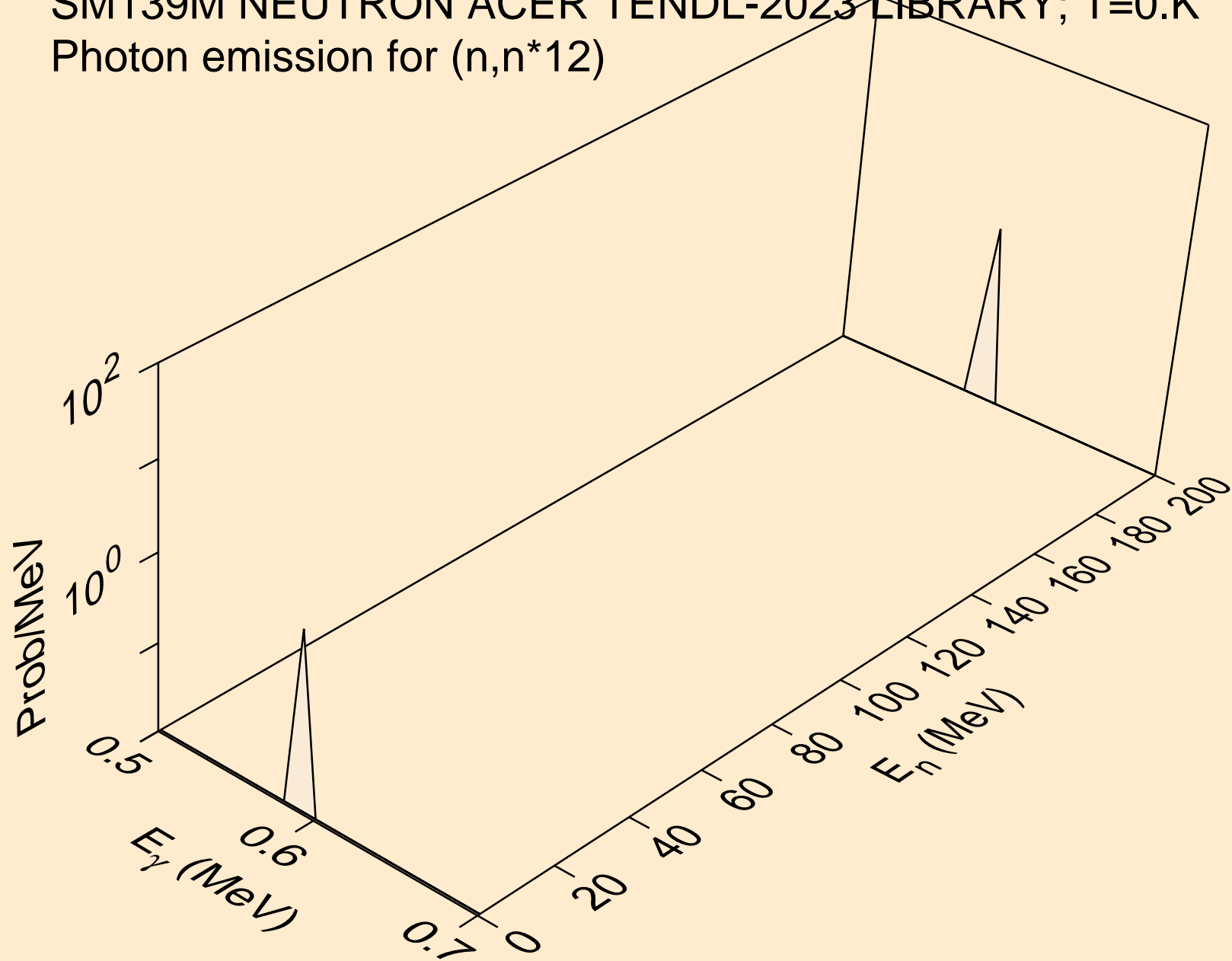
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*10)



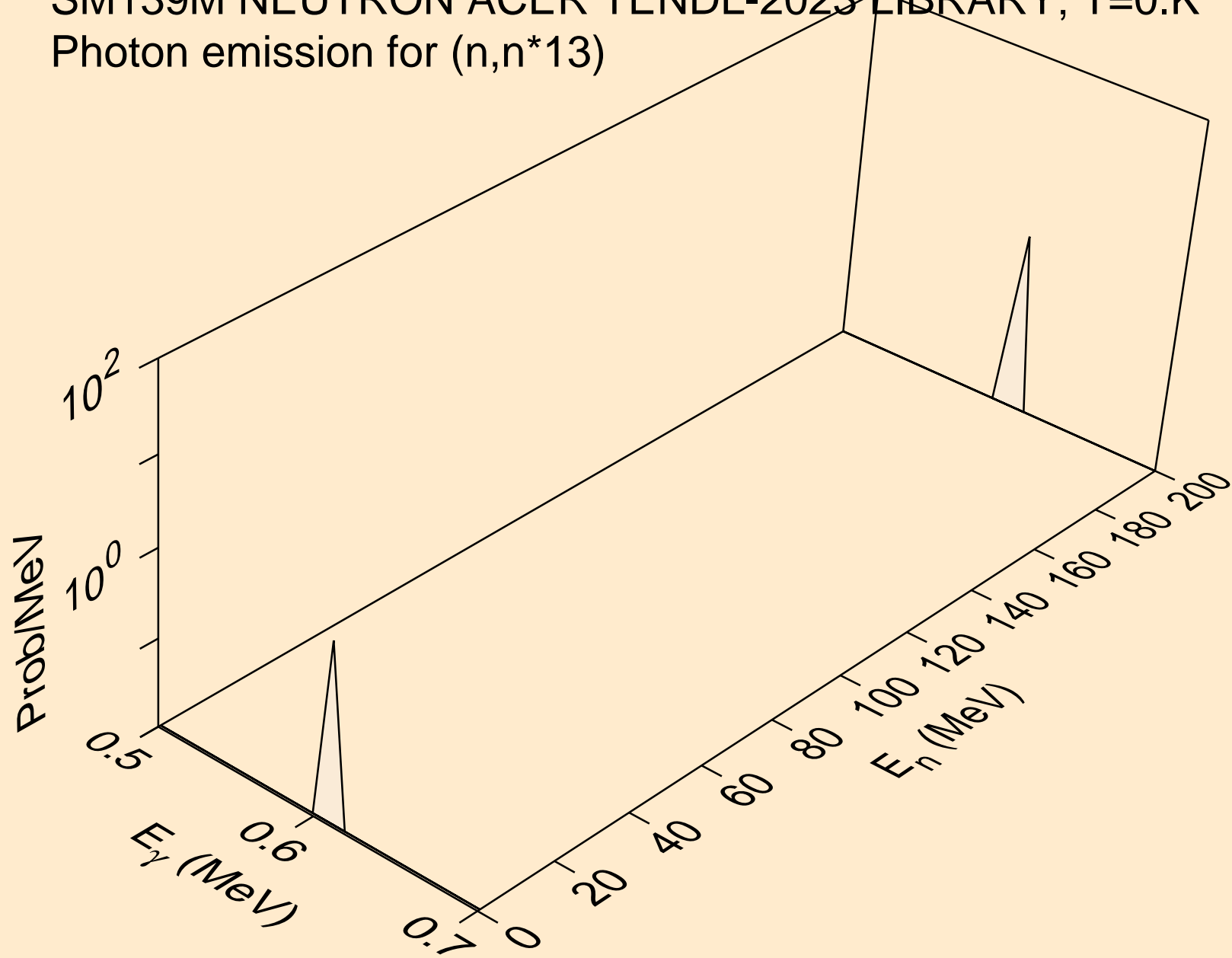
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*11)



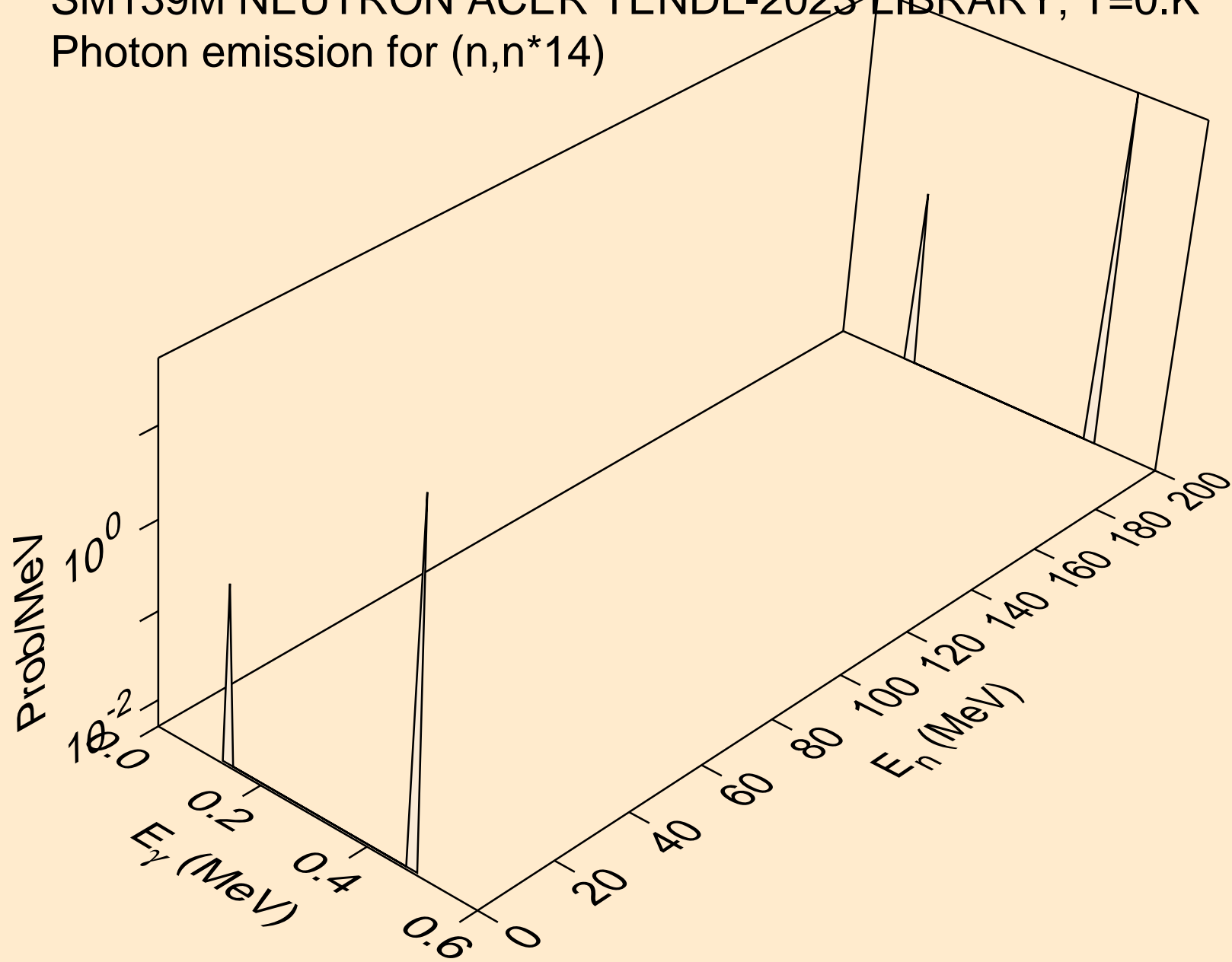
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*12)



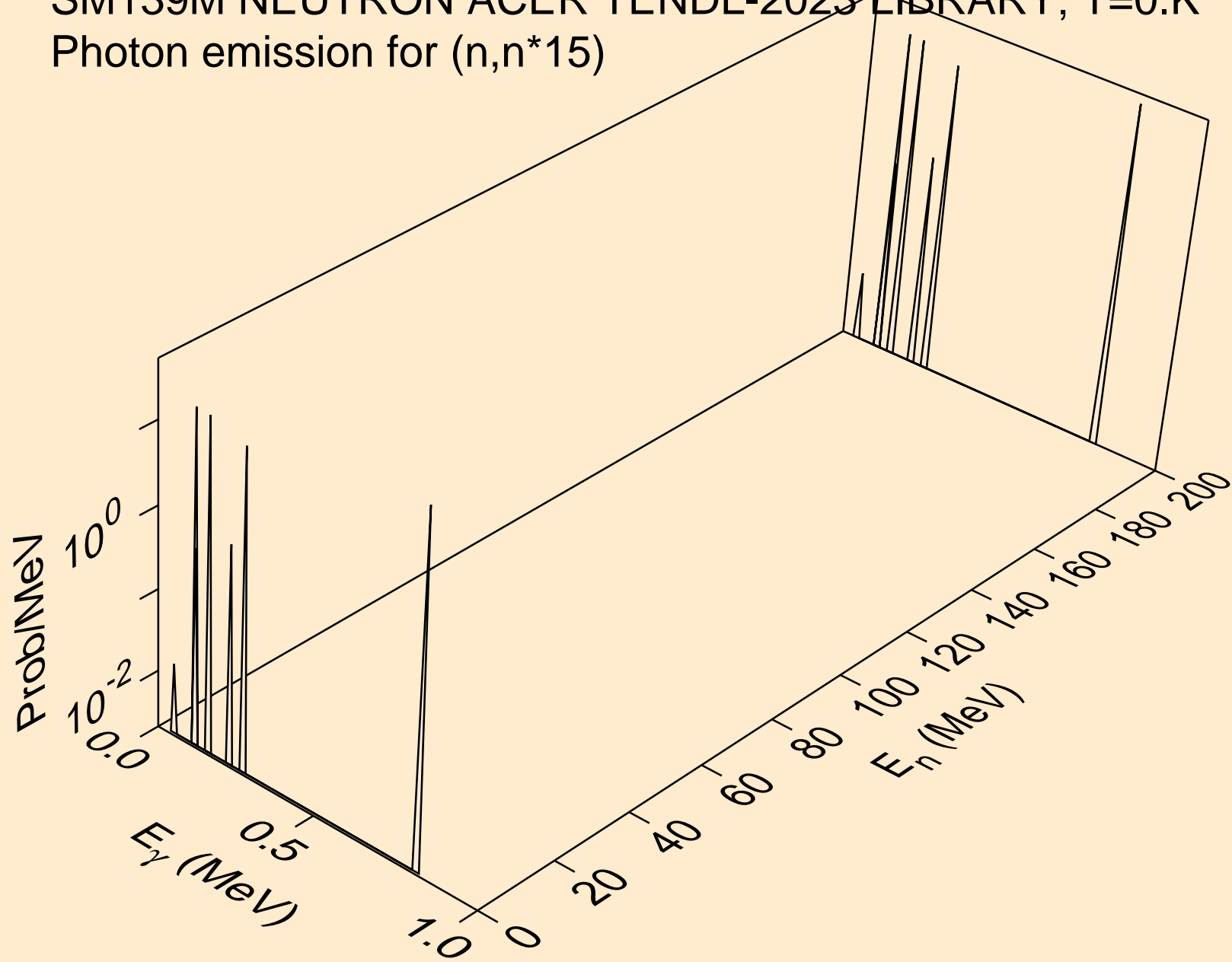
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*13)



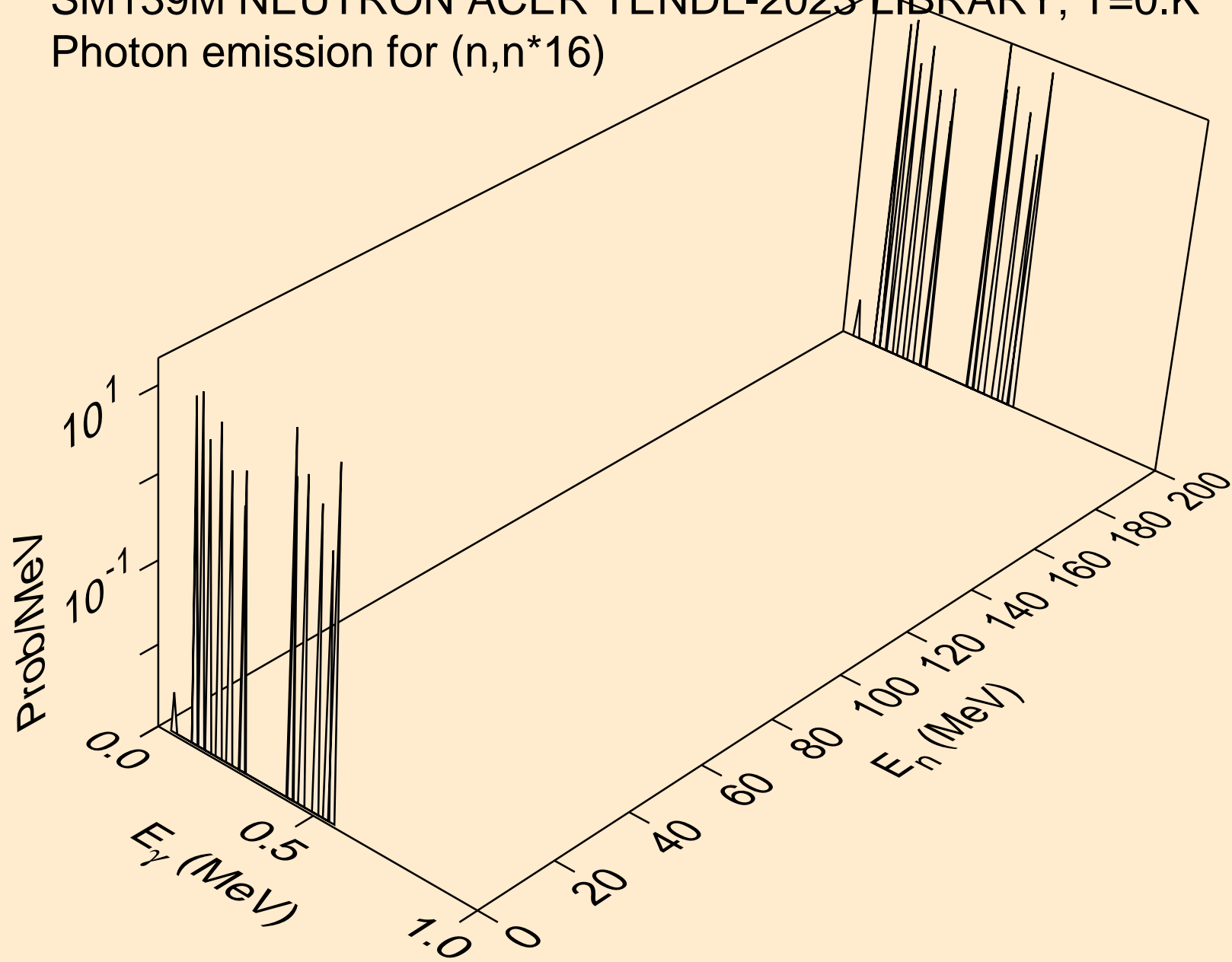
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*14)



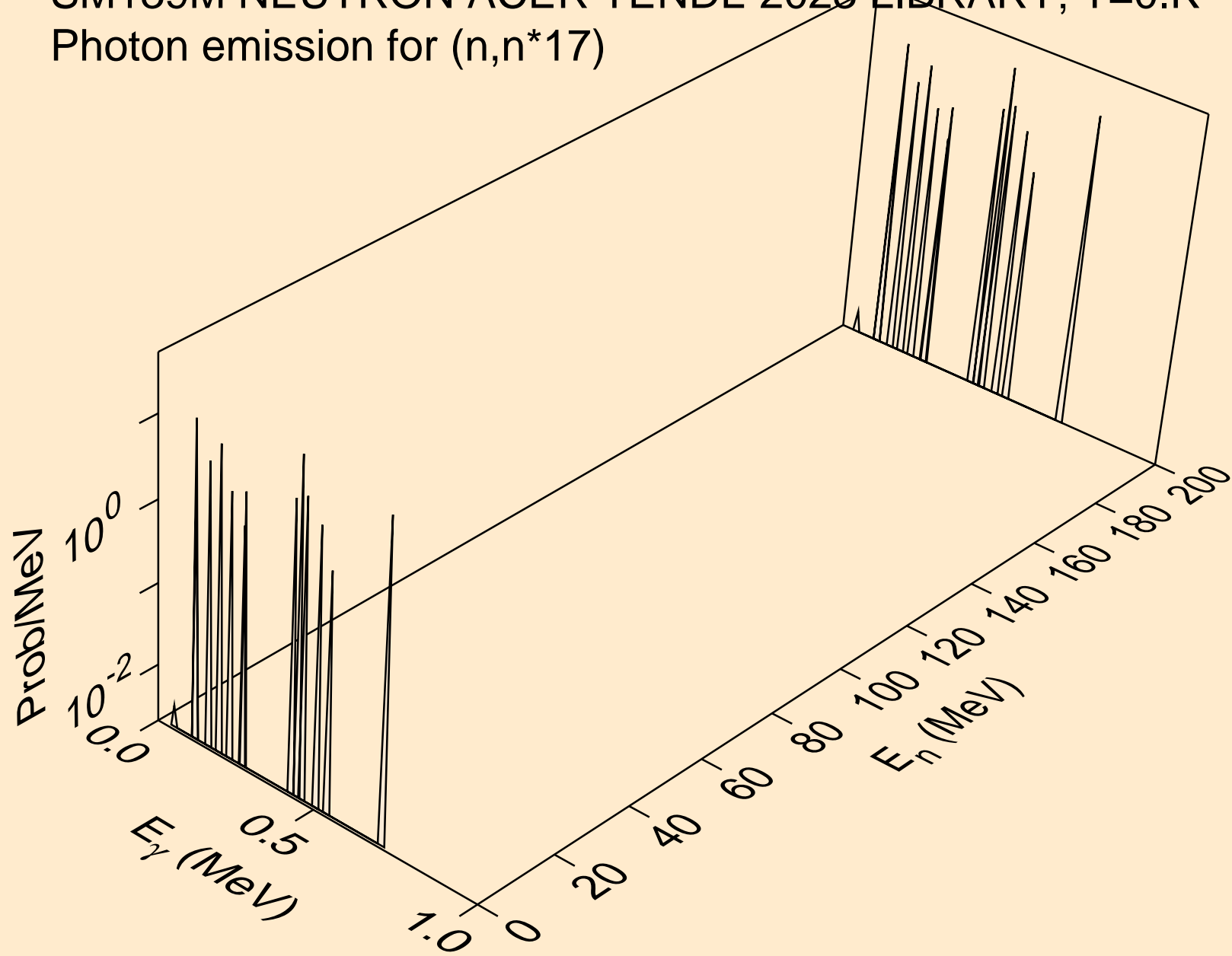
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*15)



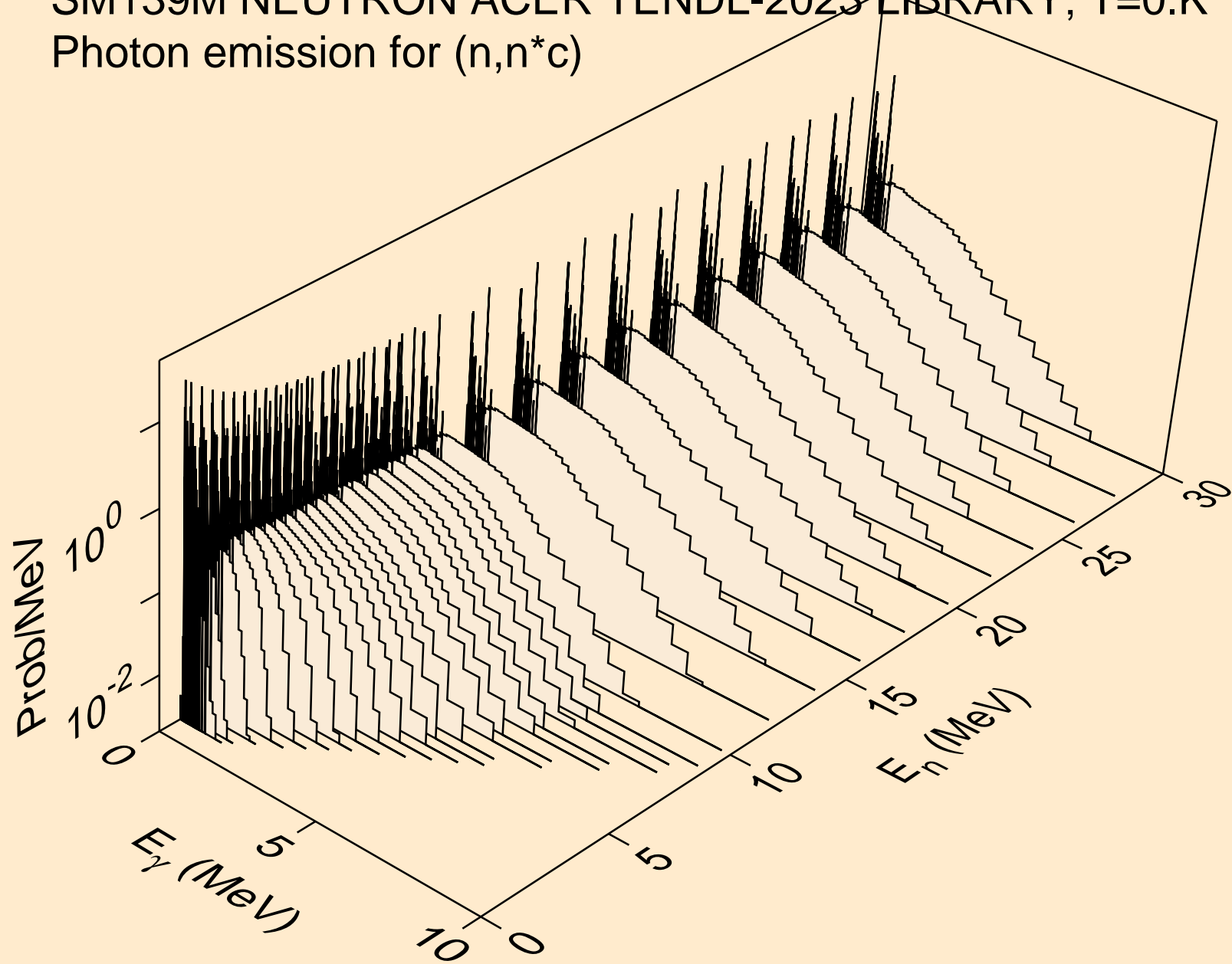
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*16)



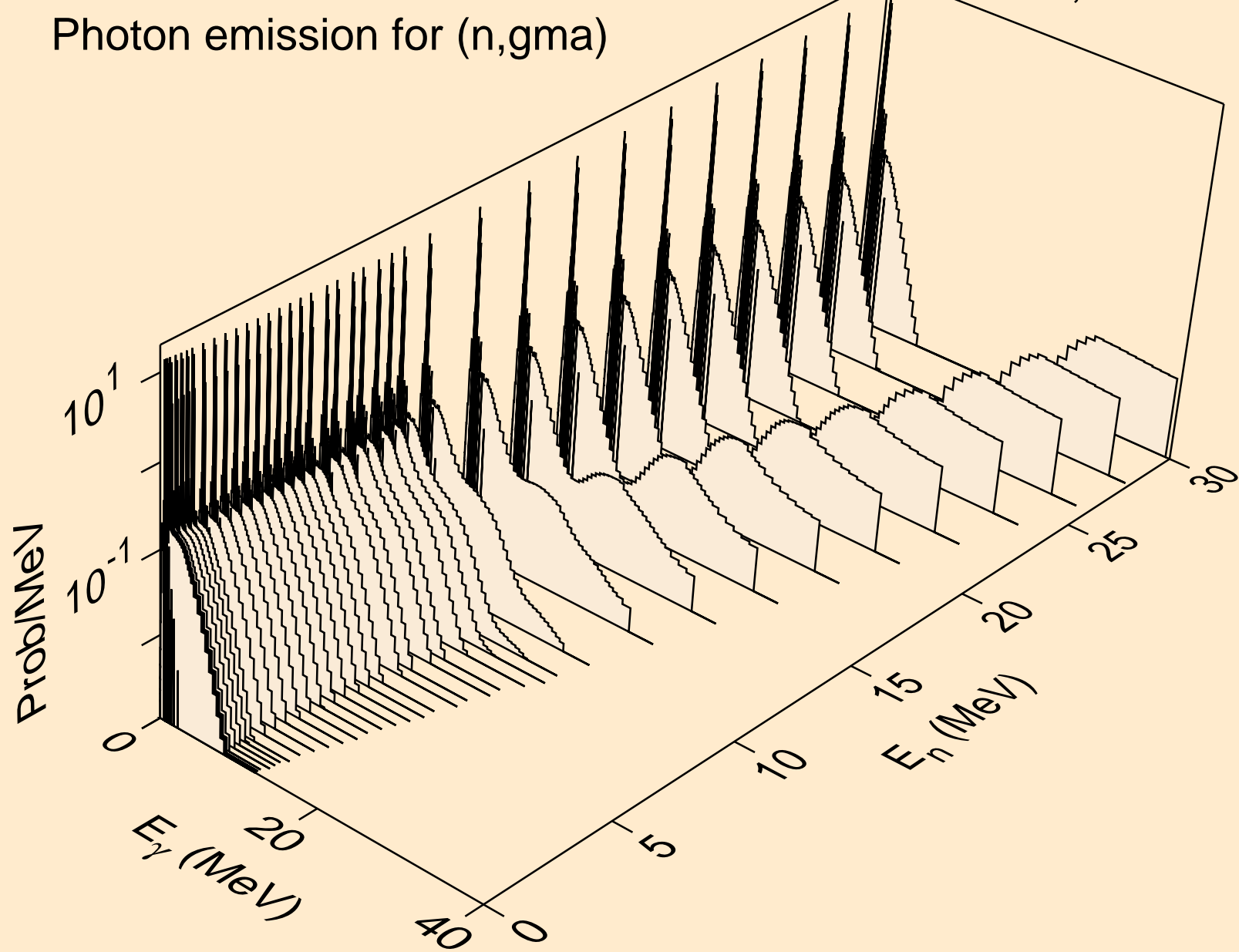
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*17)



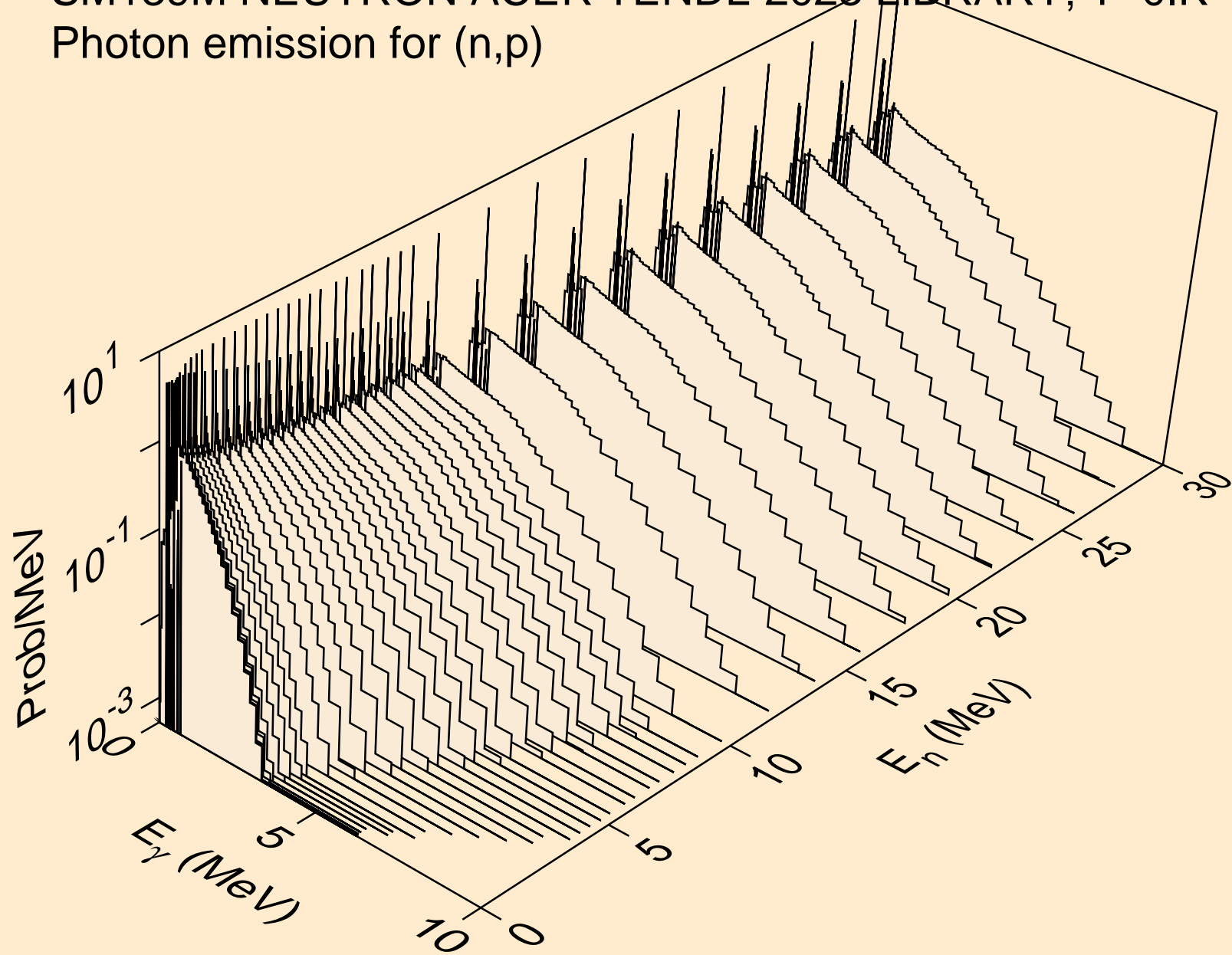
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



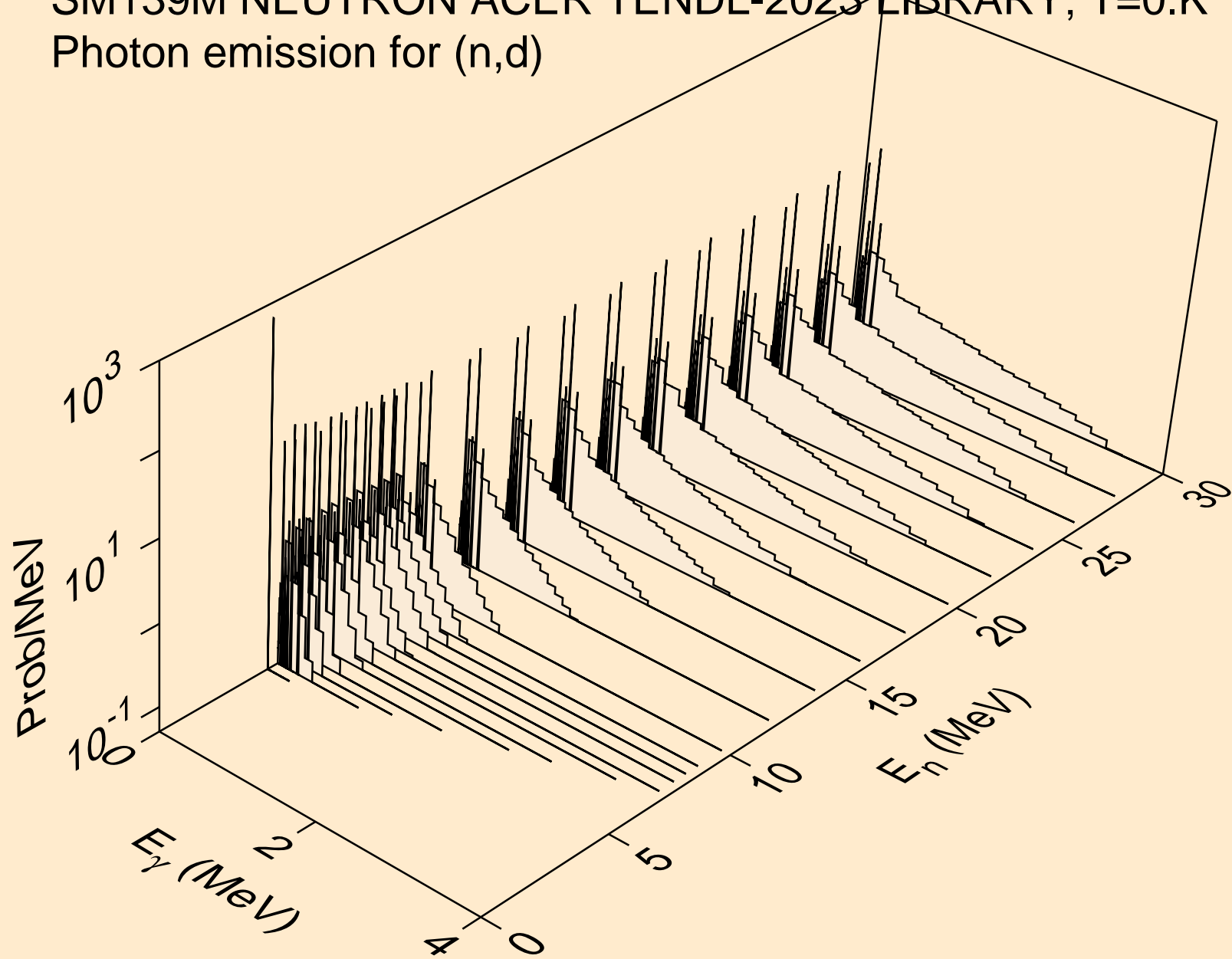
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



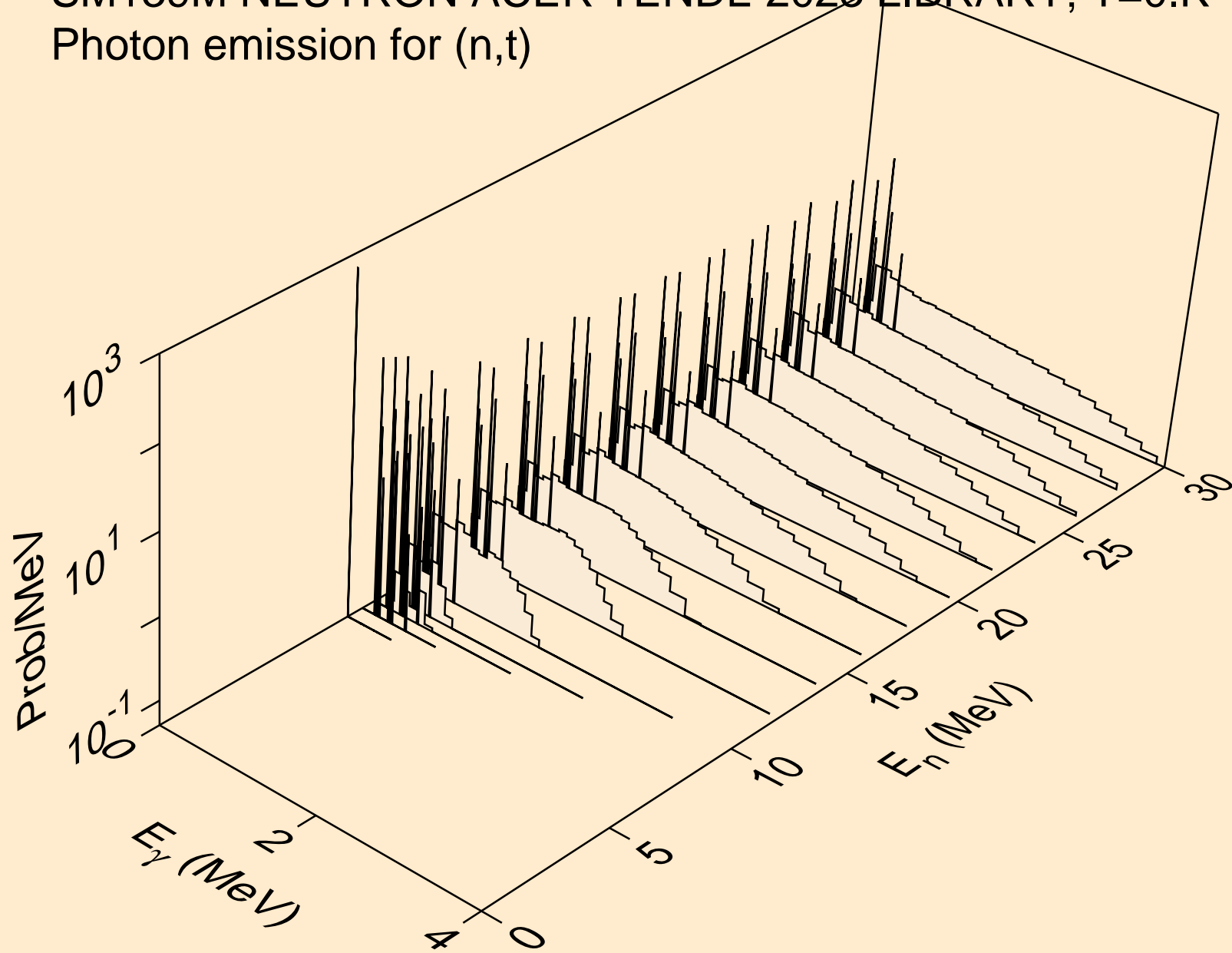
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



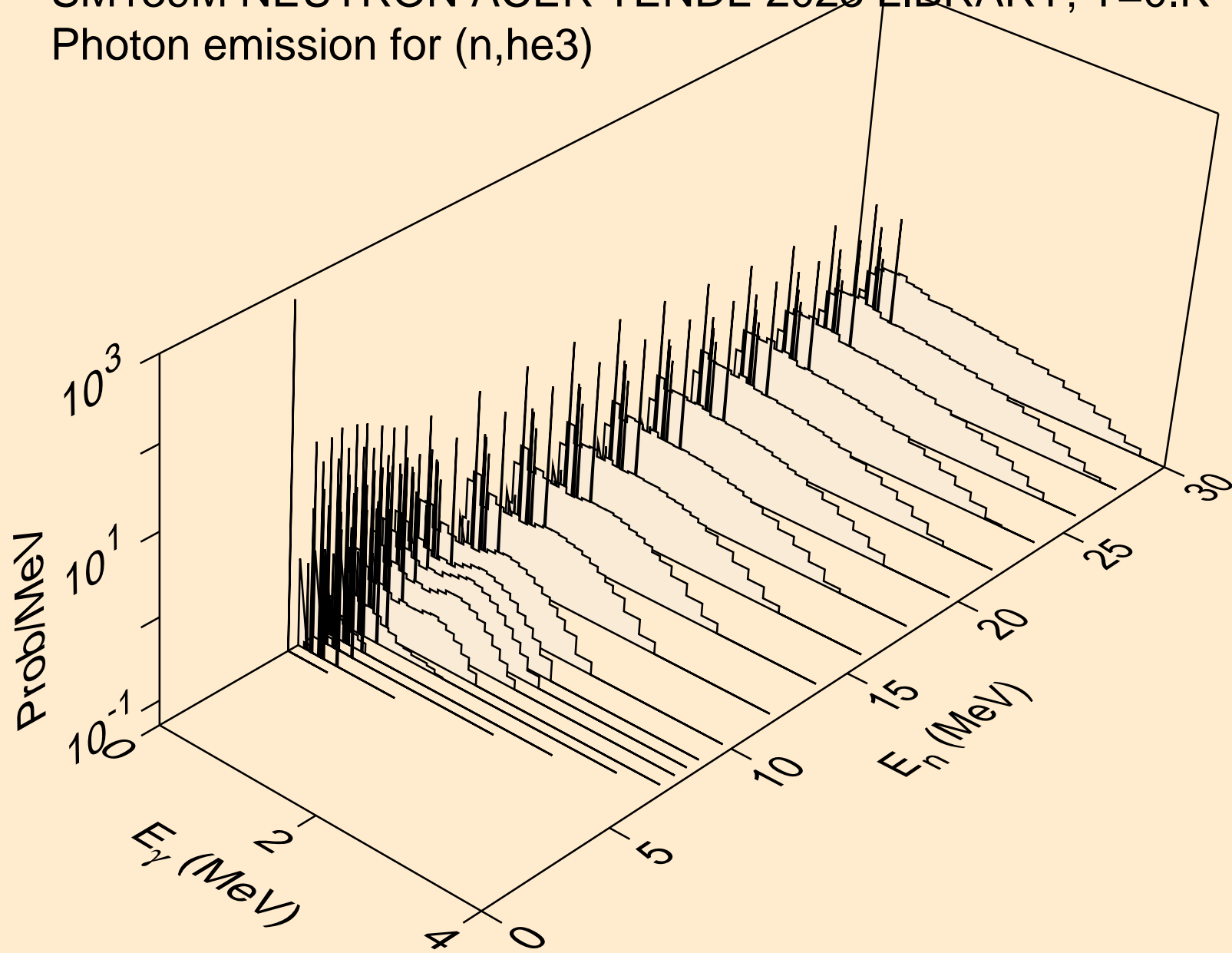
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)



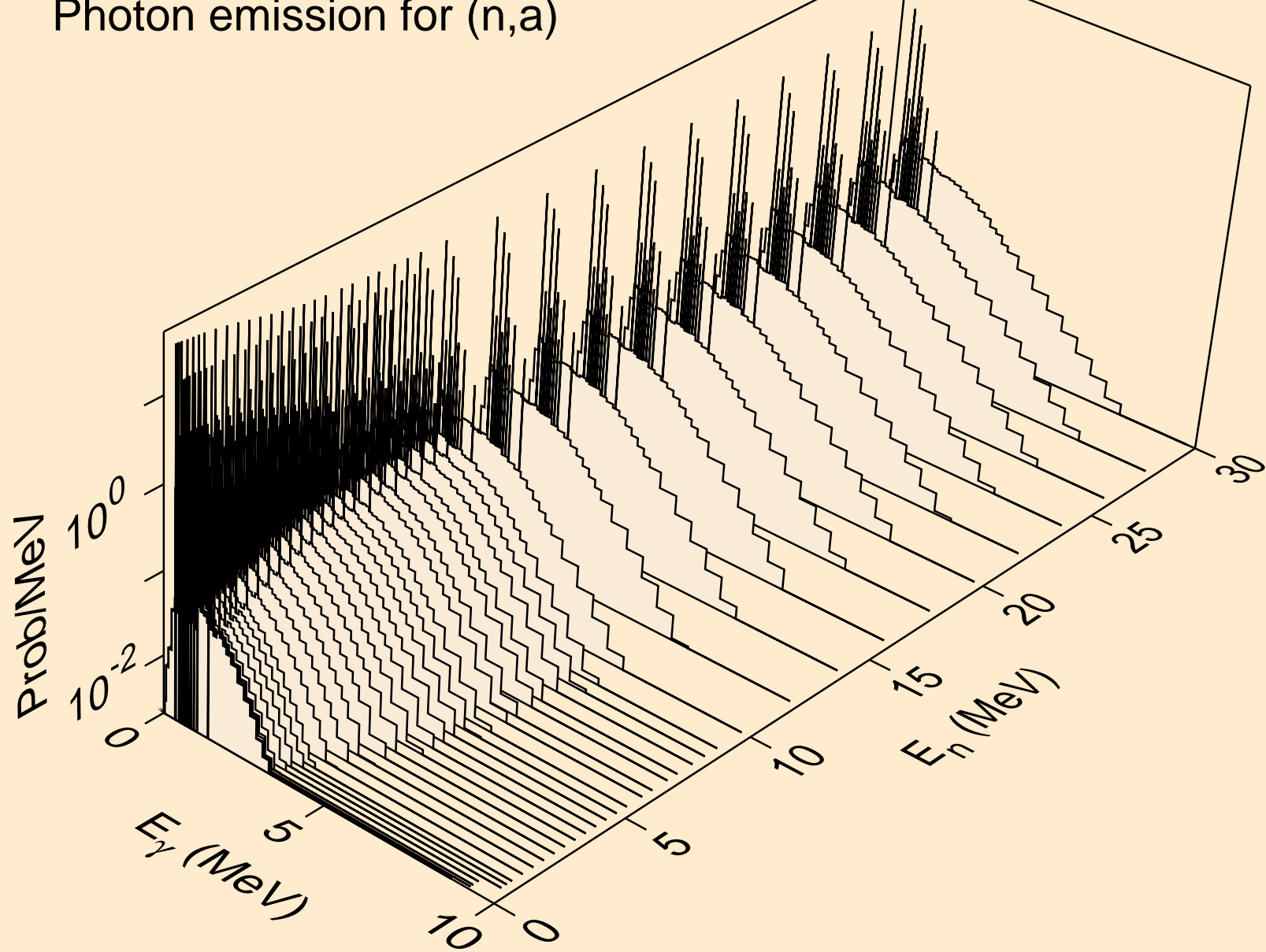
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)



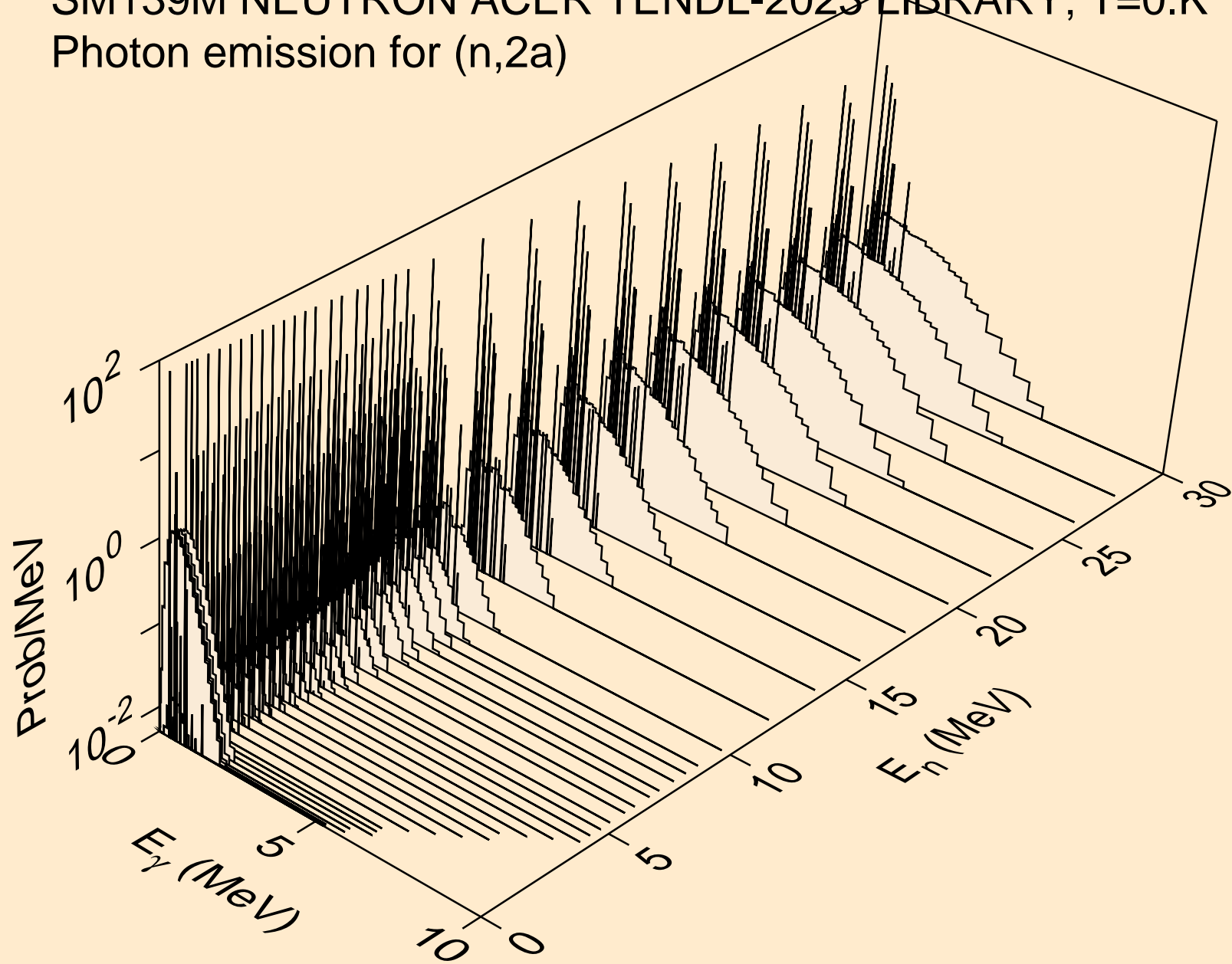
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



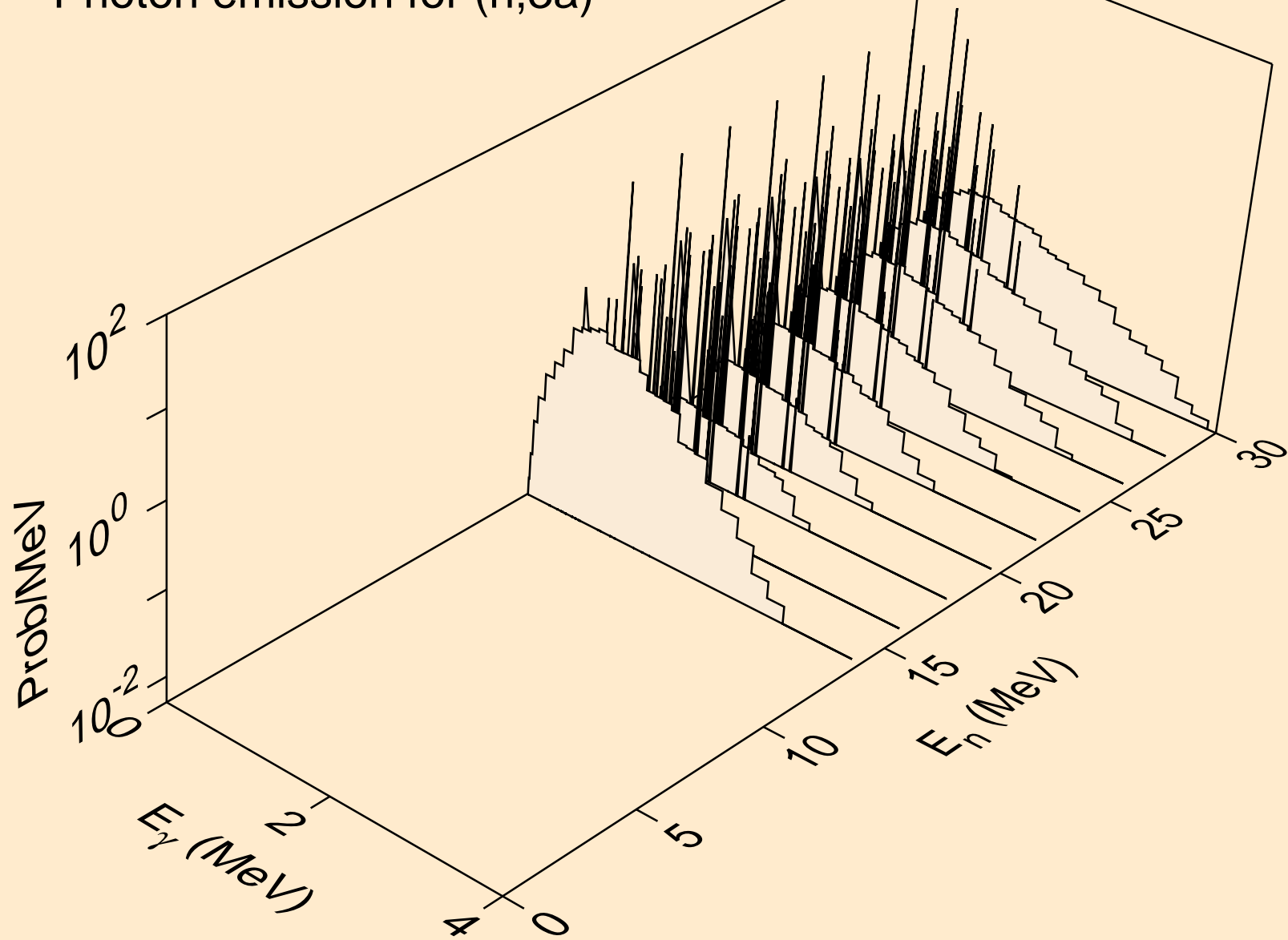
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



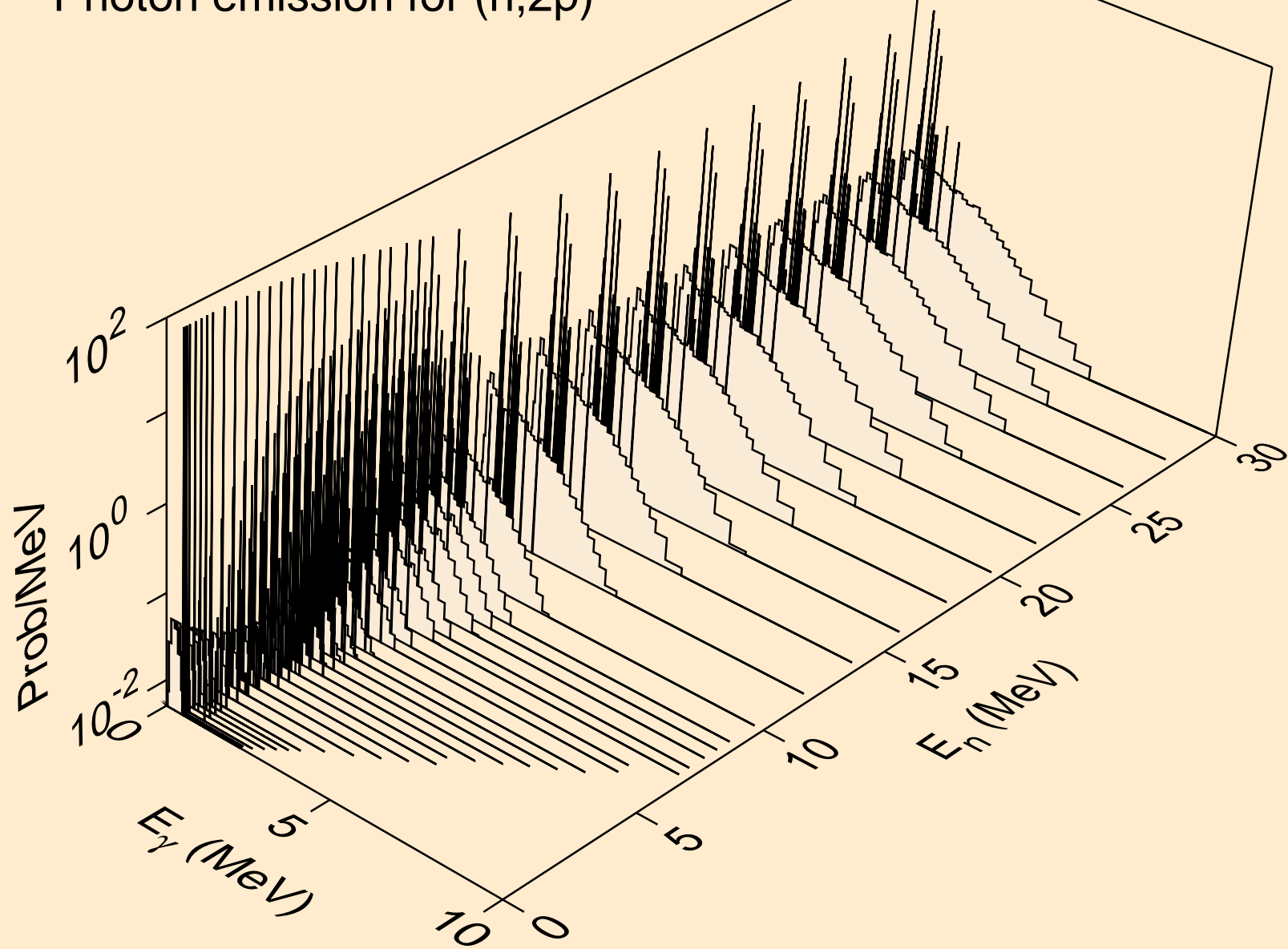
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



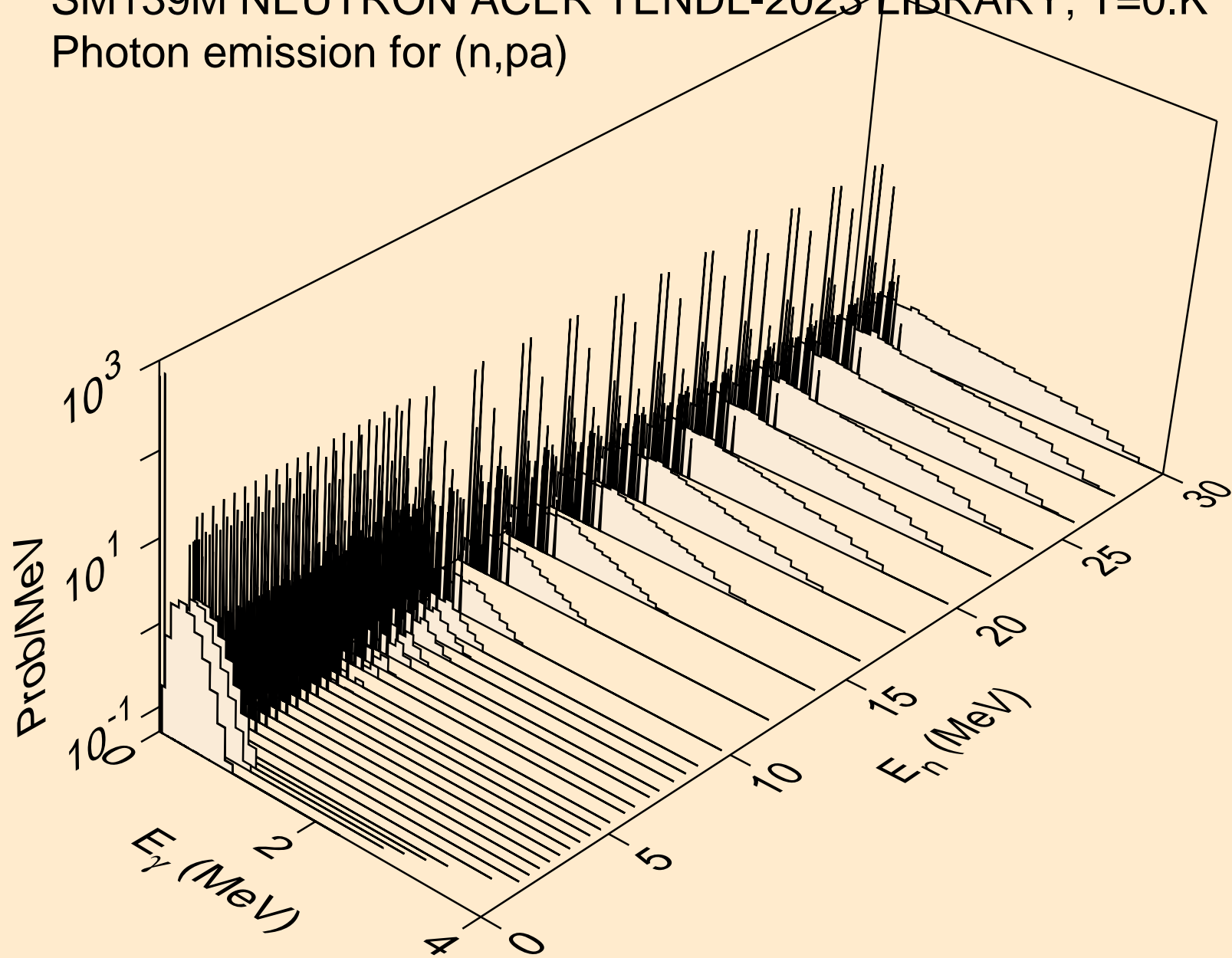
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3a)



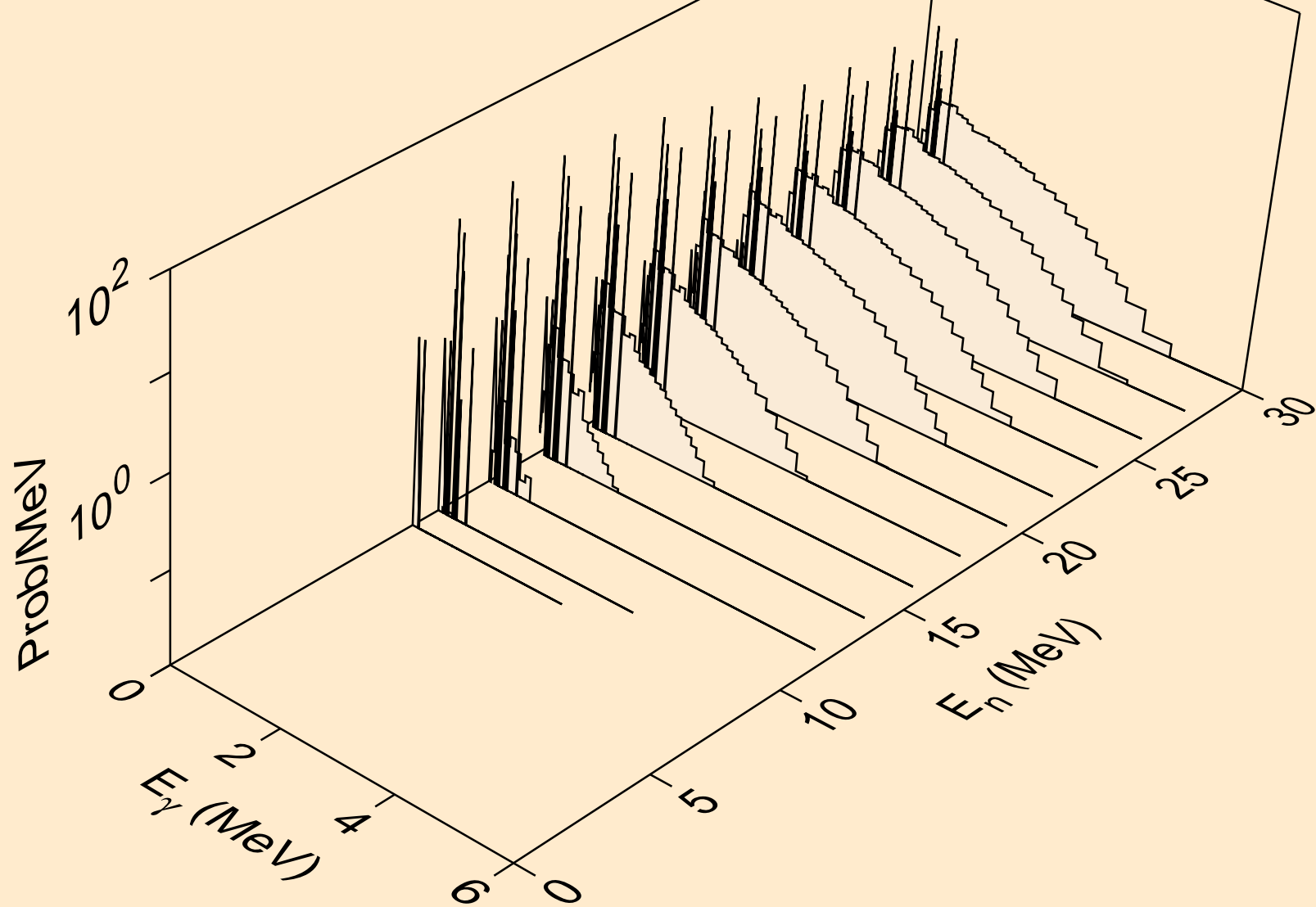
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



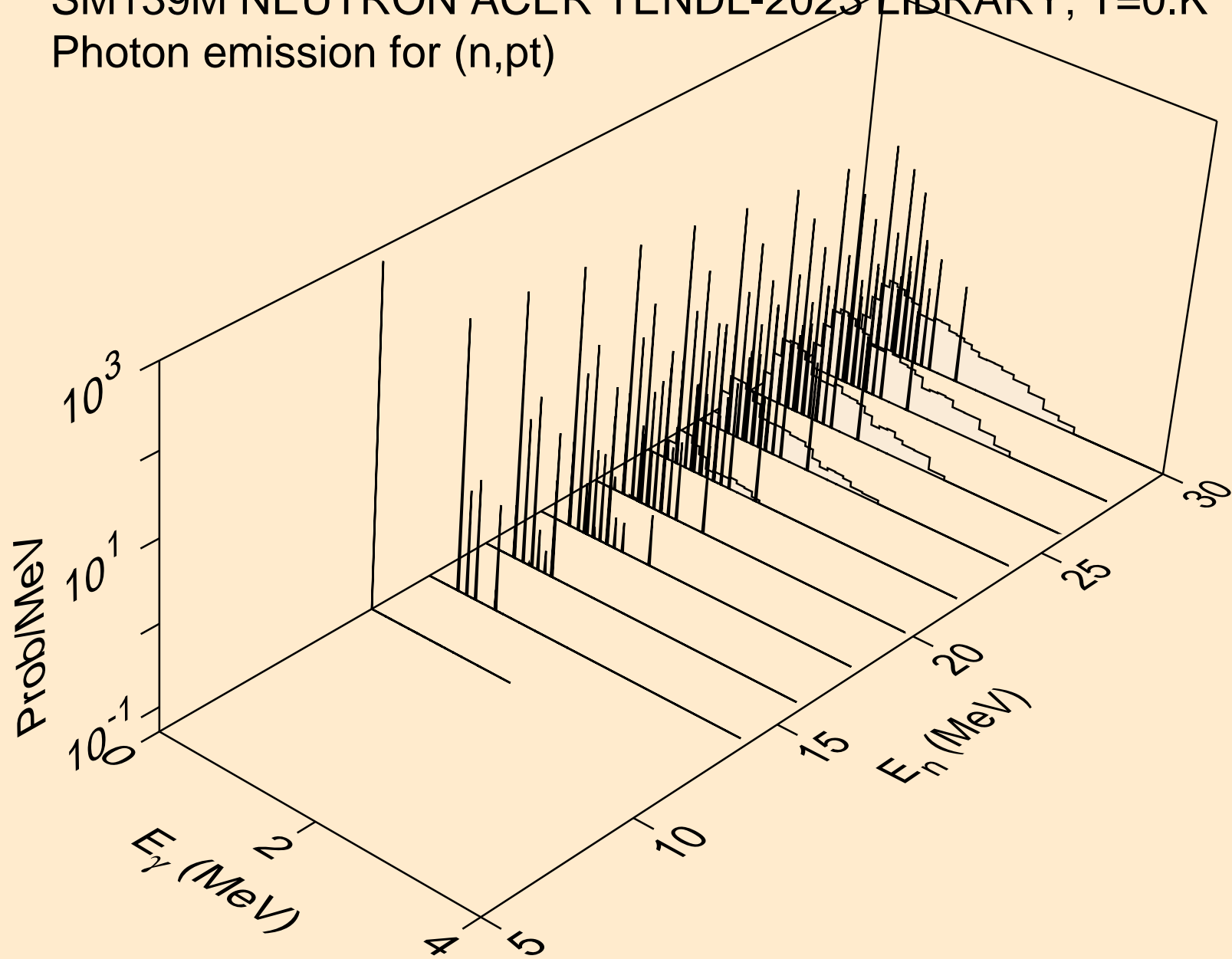
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



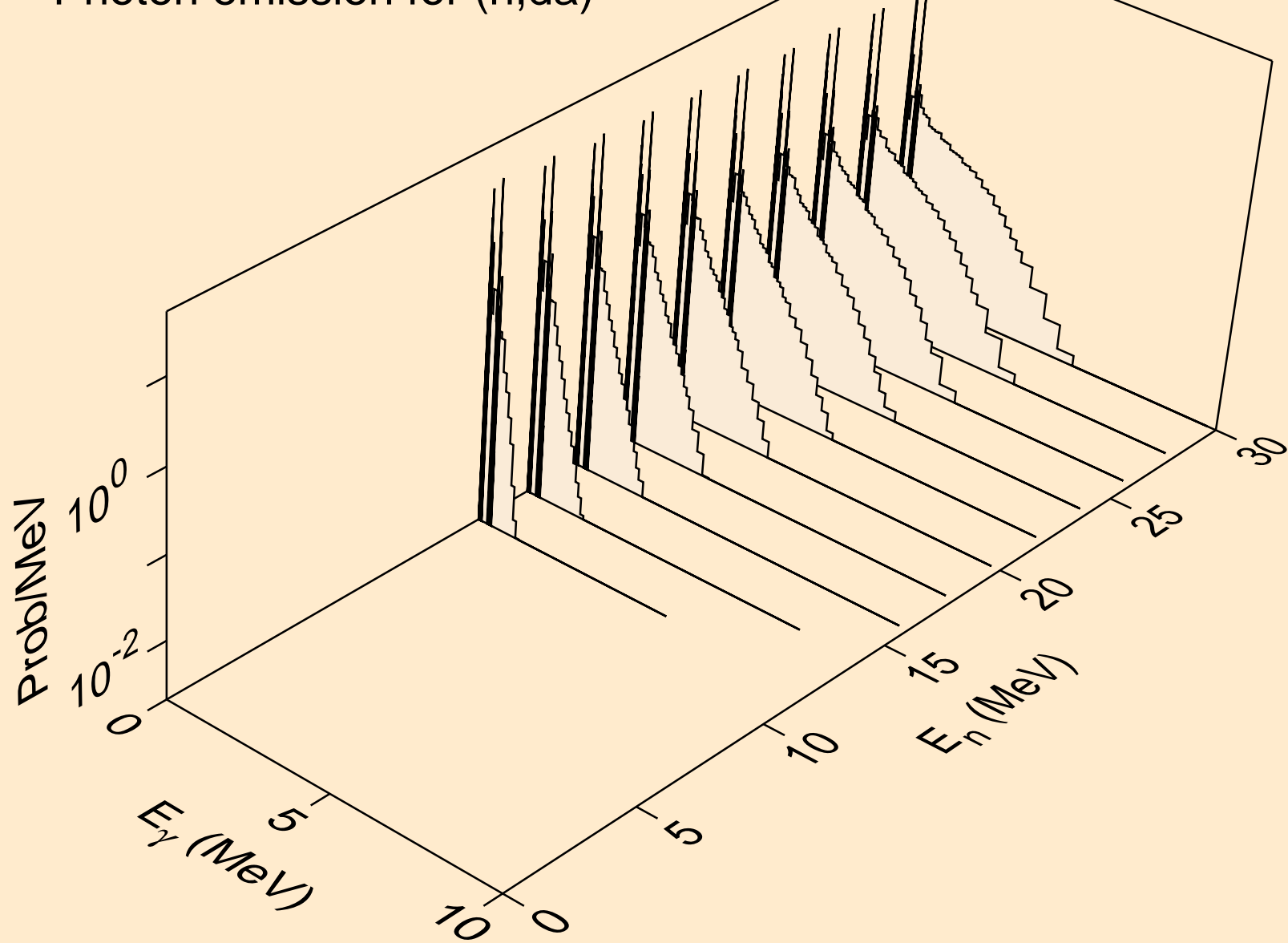
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



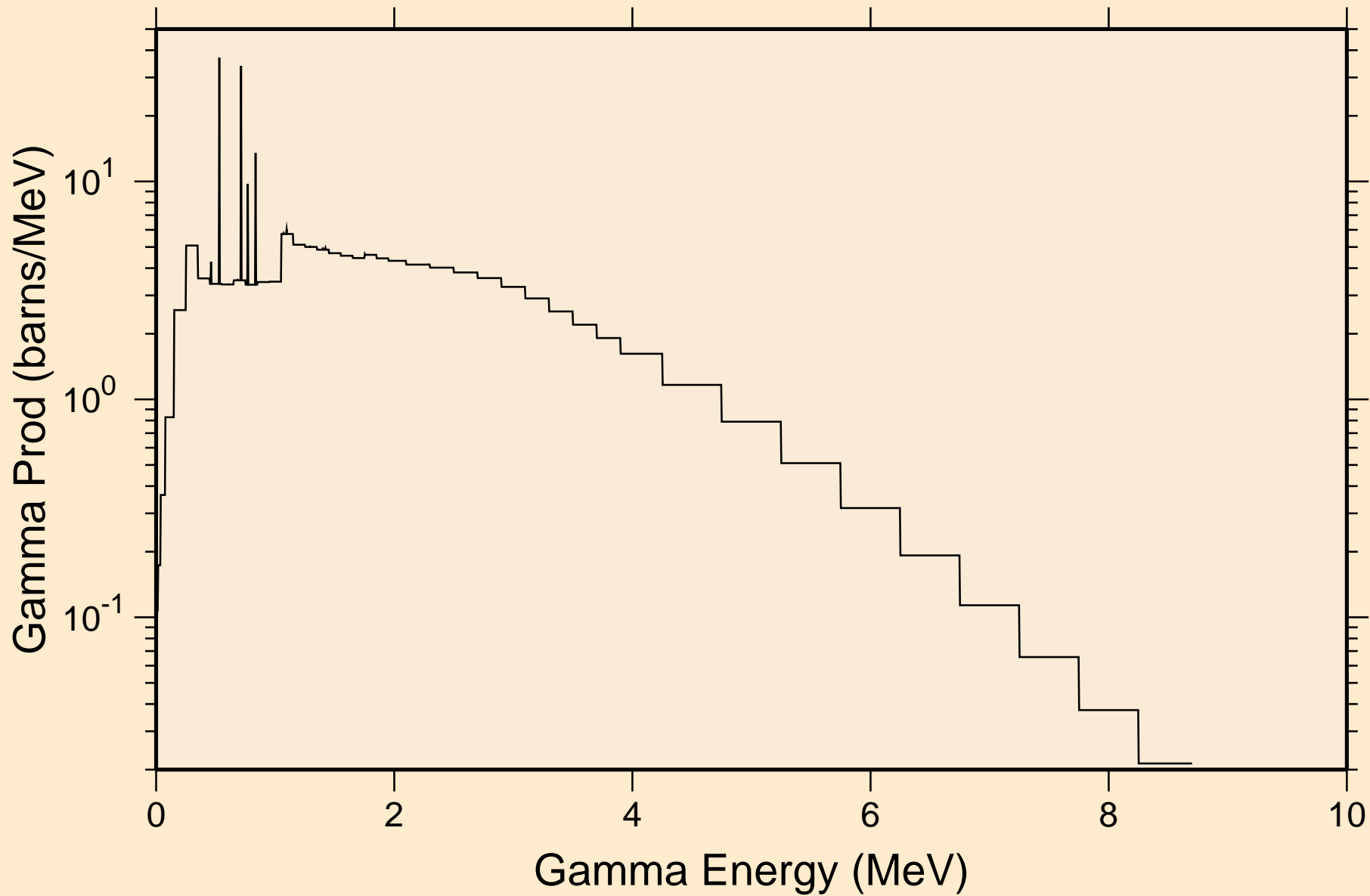
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)



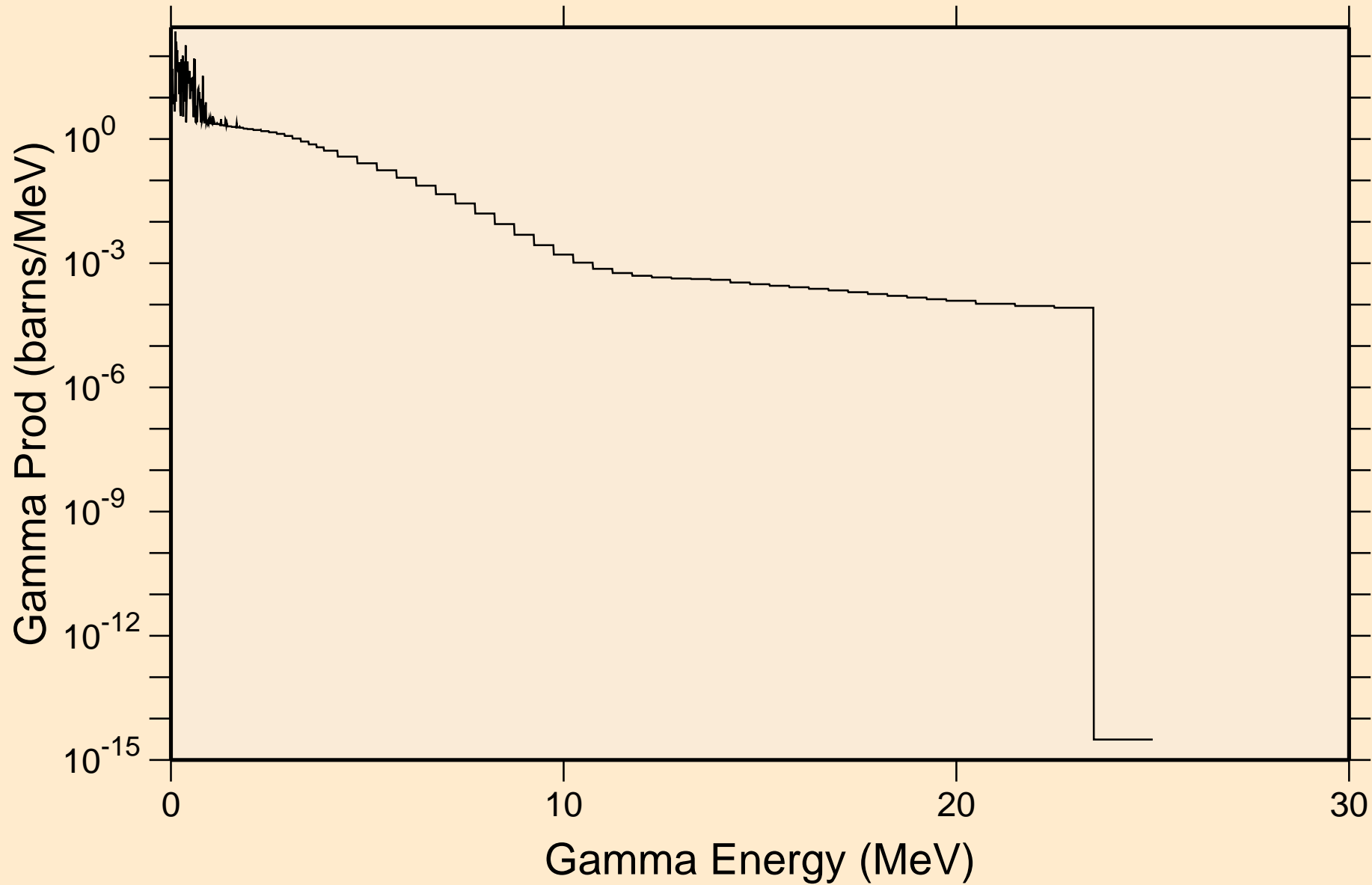
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)



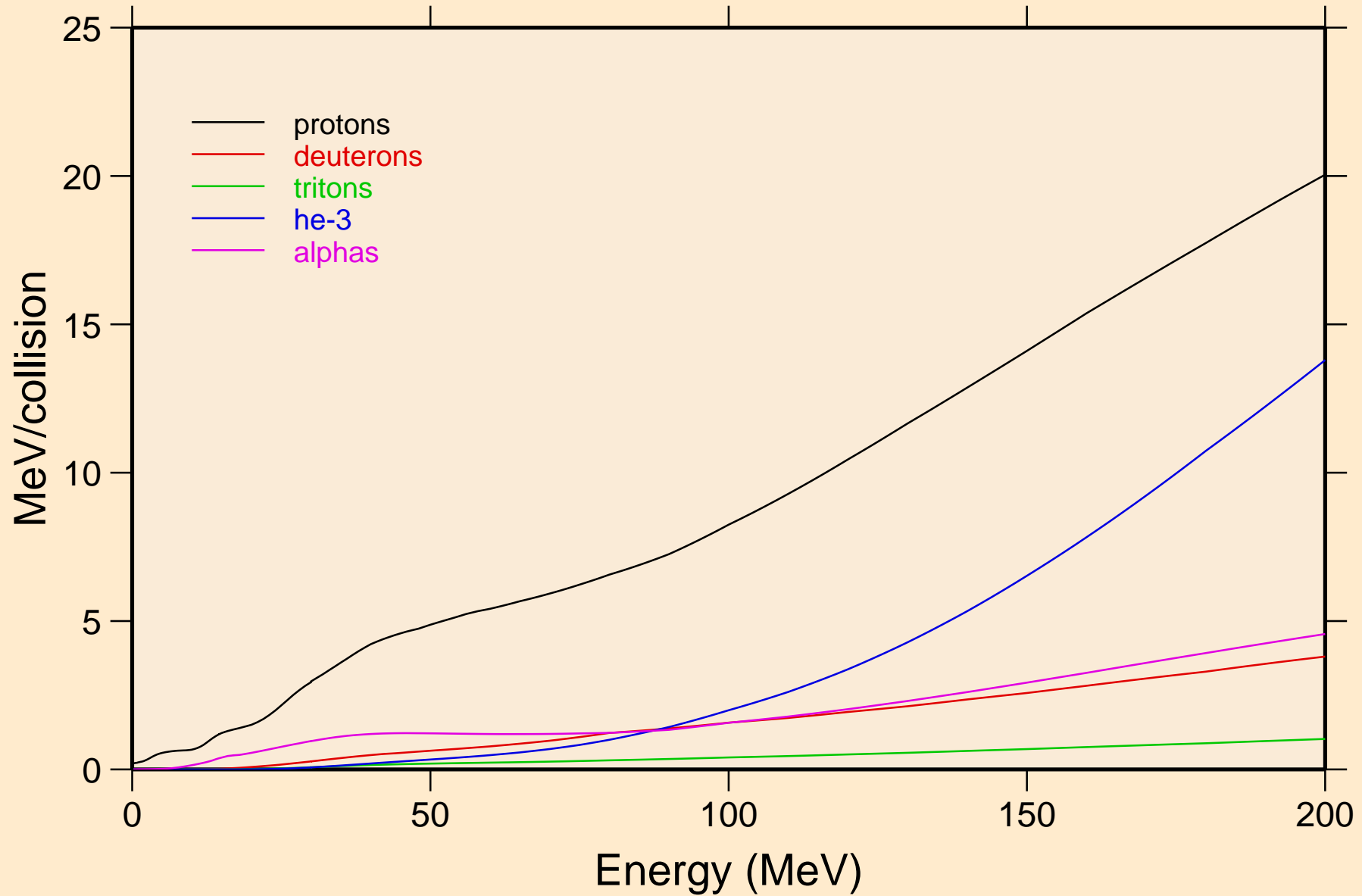
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum



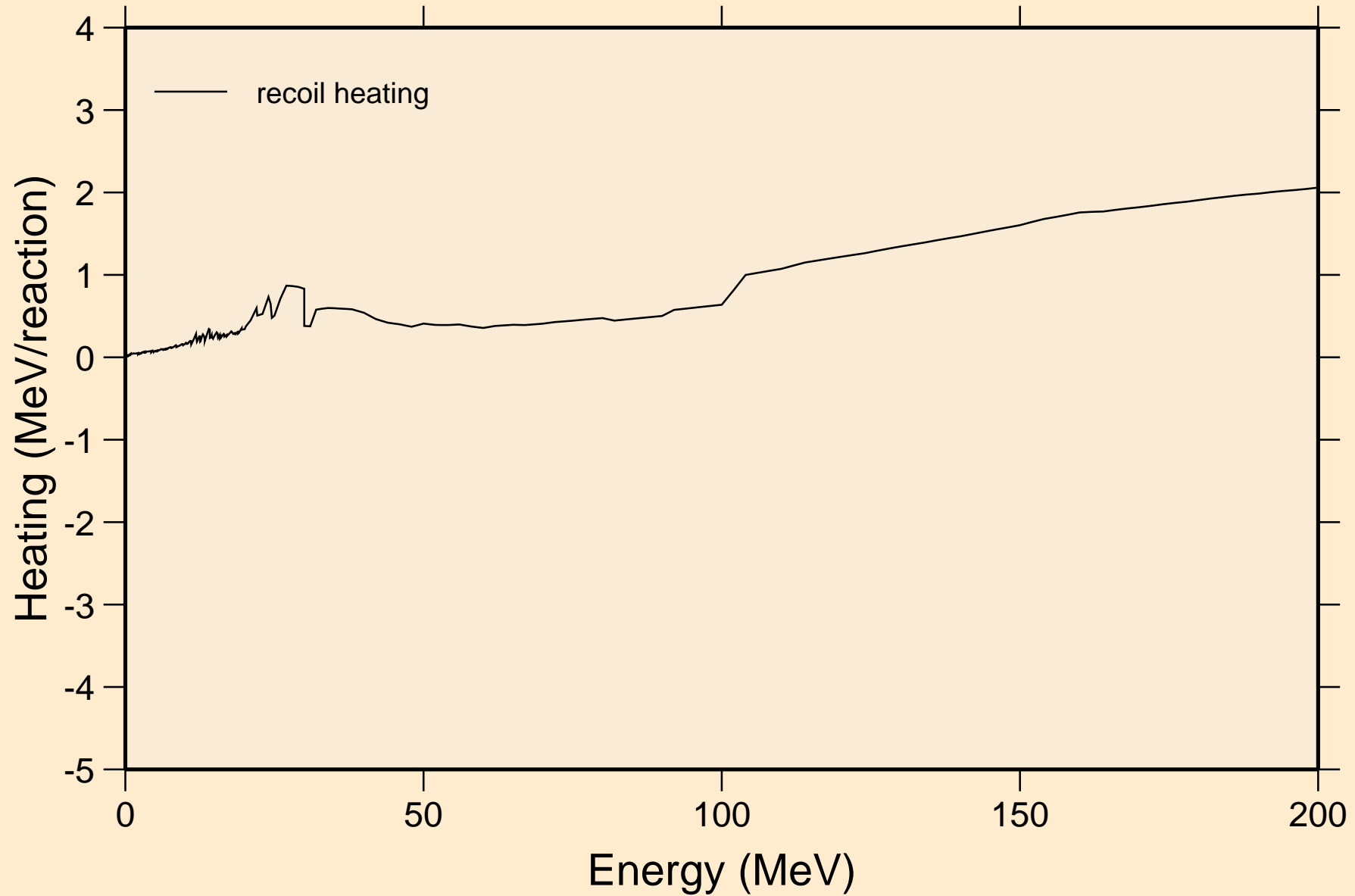
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Particle heating contributions

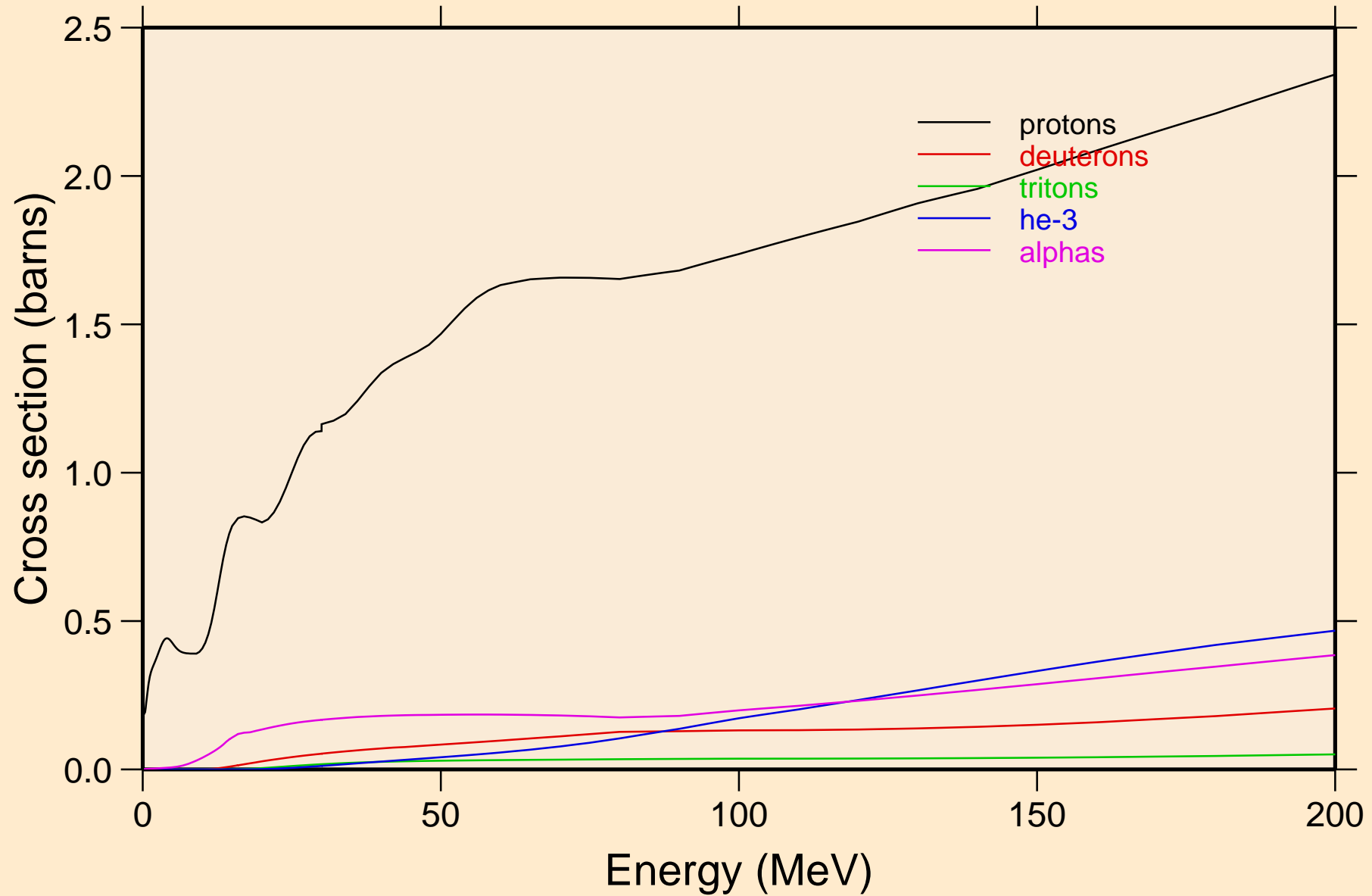


SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

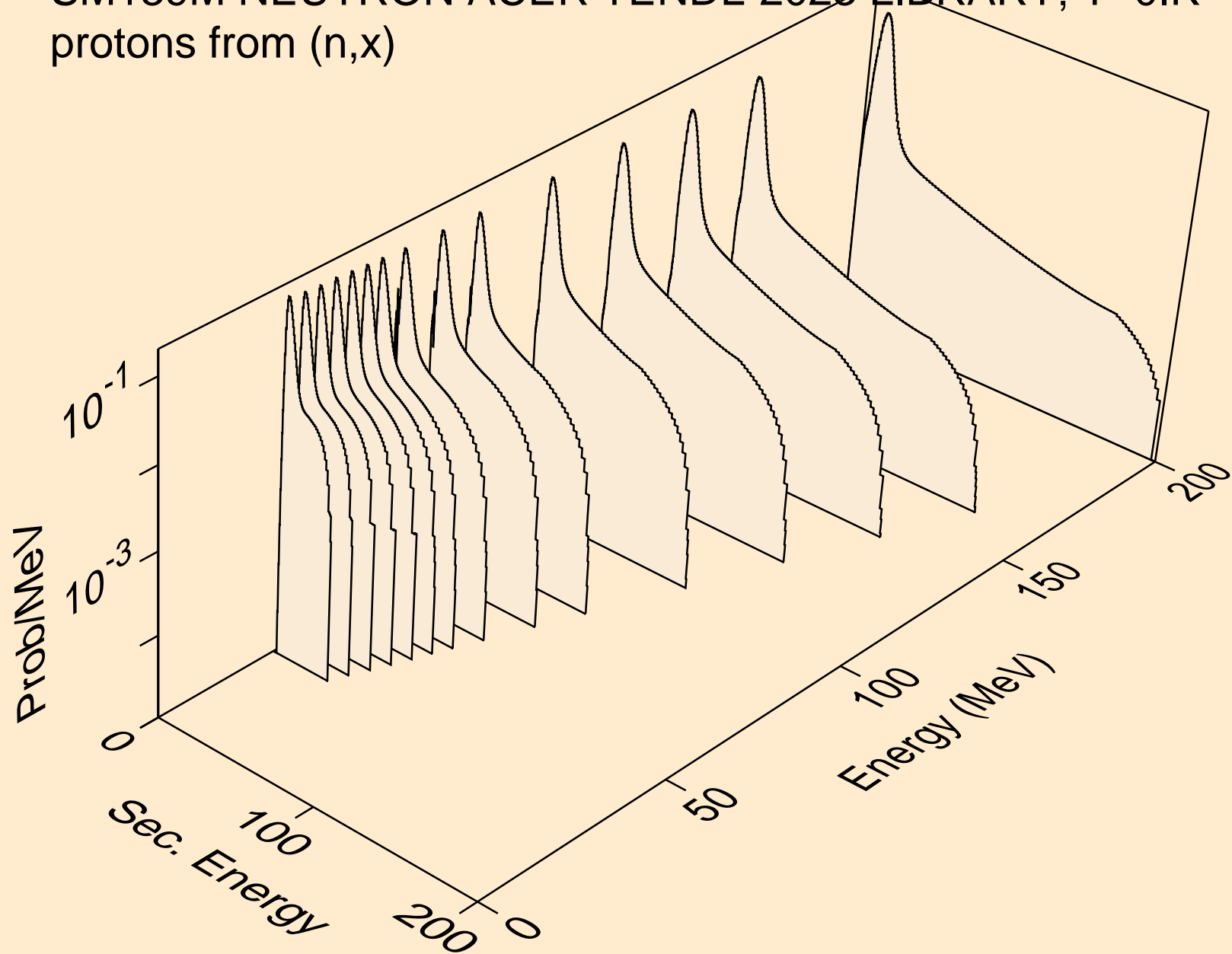


# SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

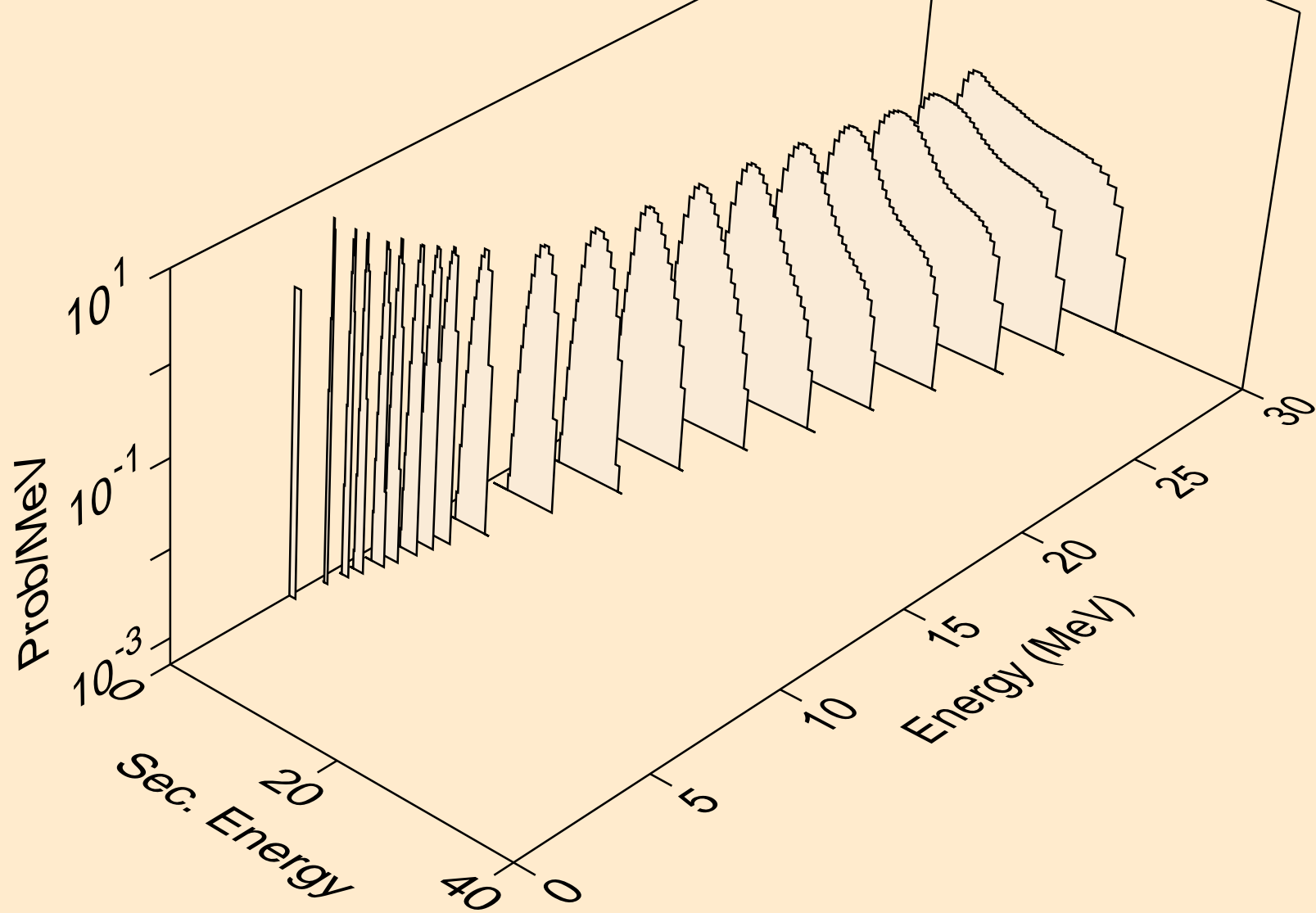
## Particle production cross sections



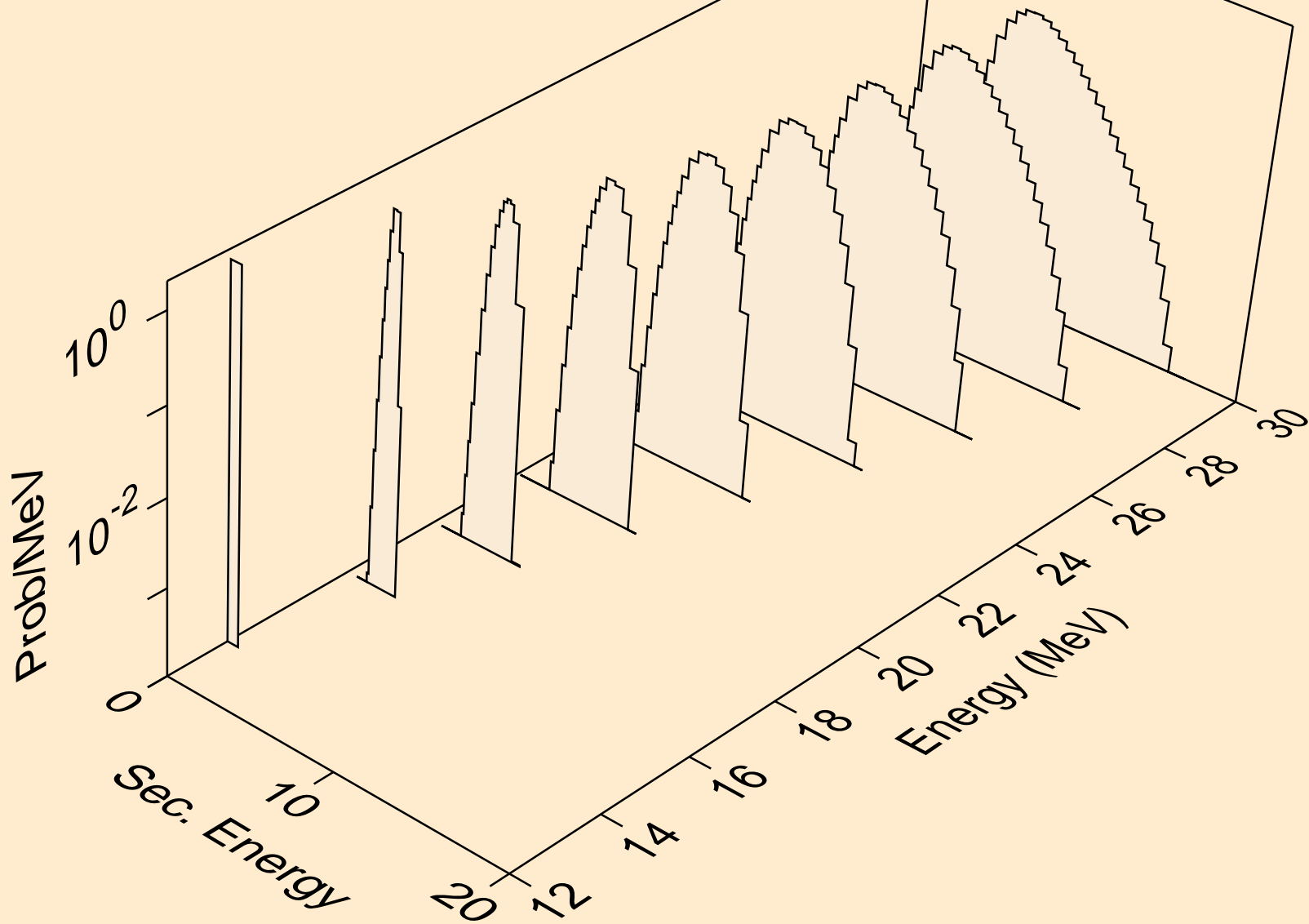
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



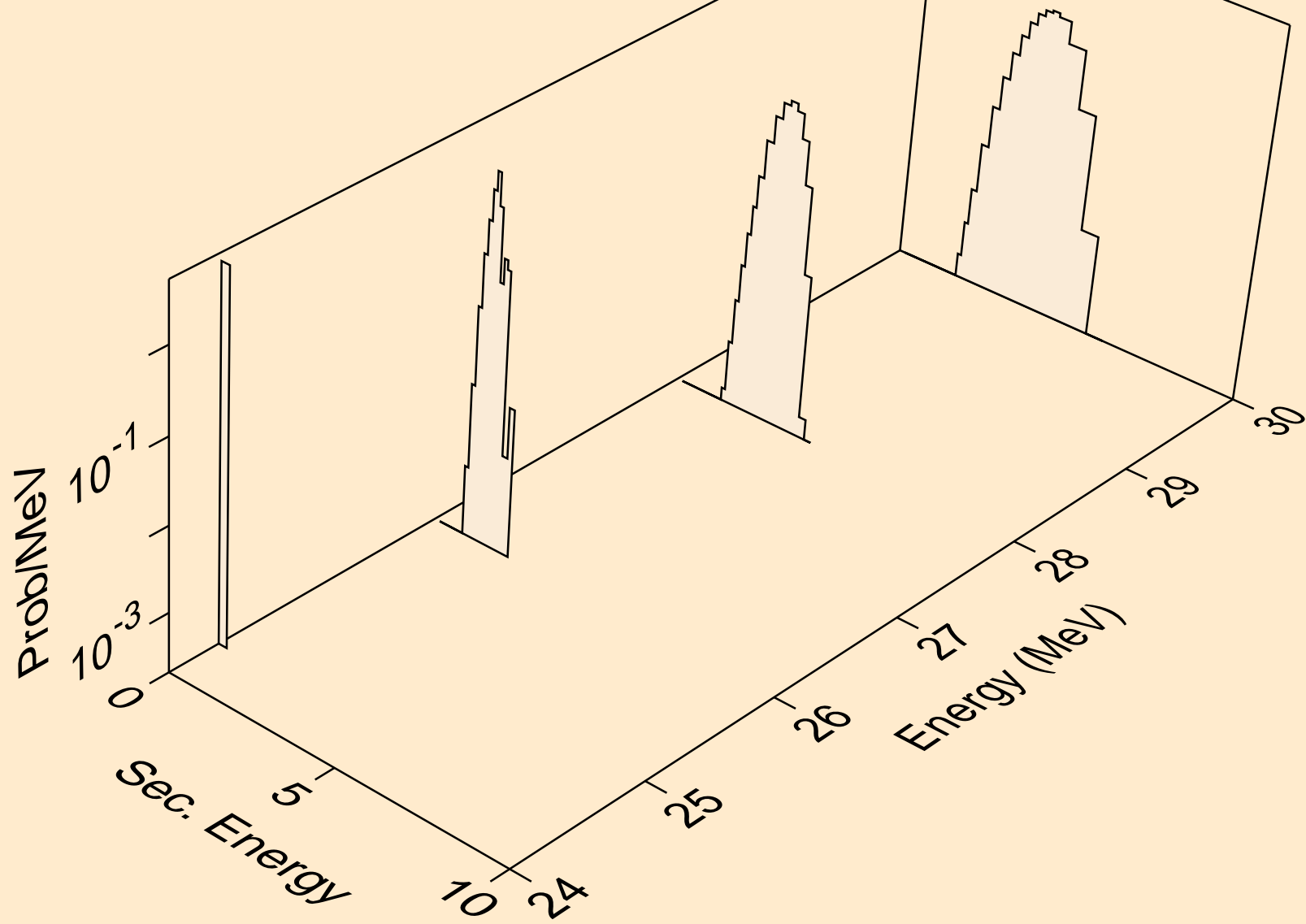
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p



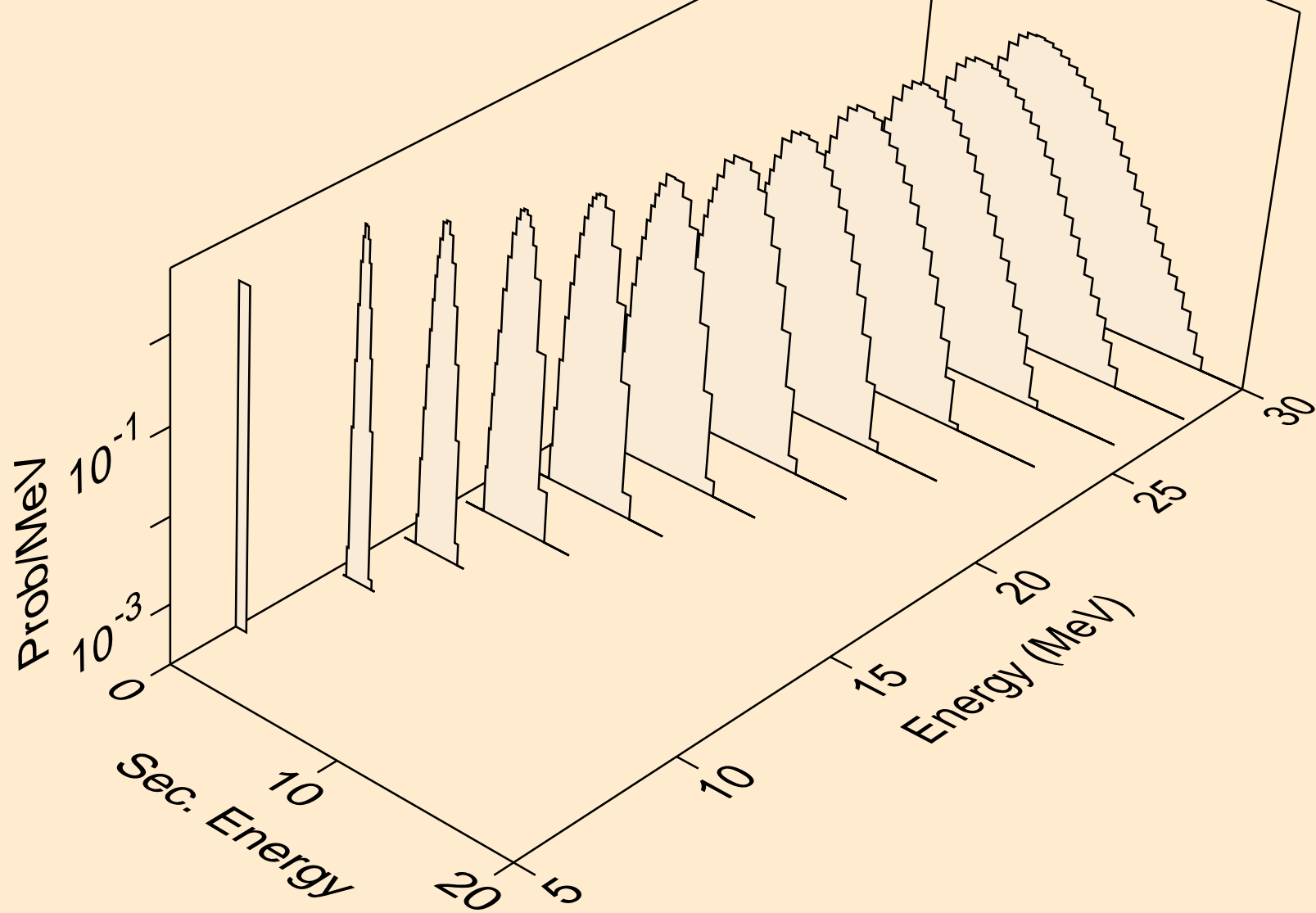
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)



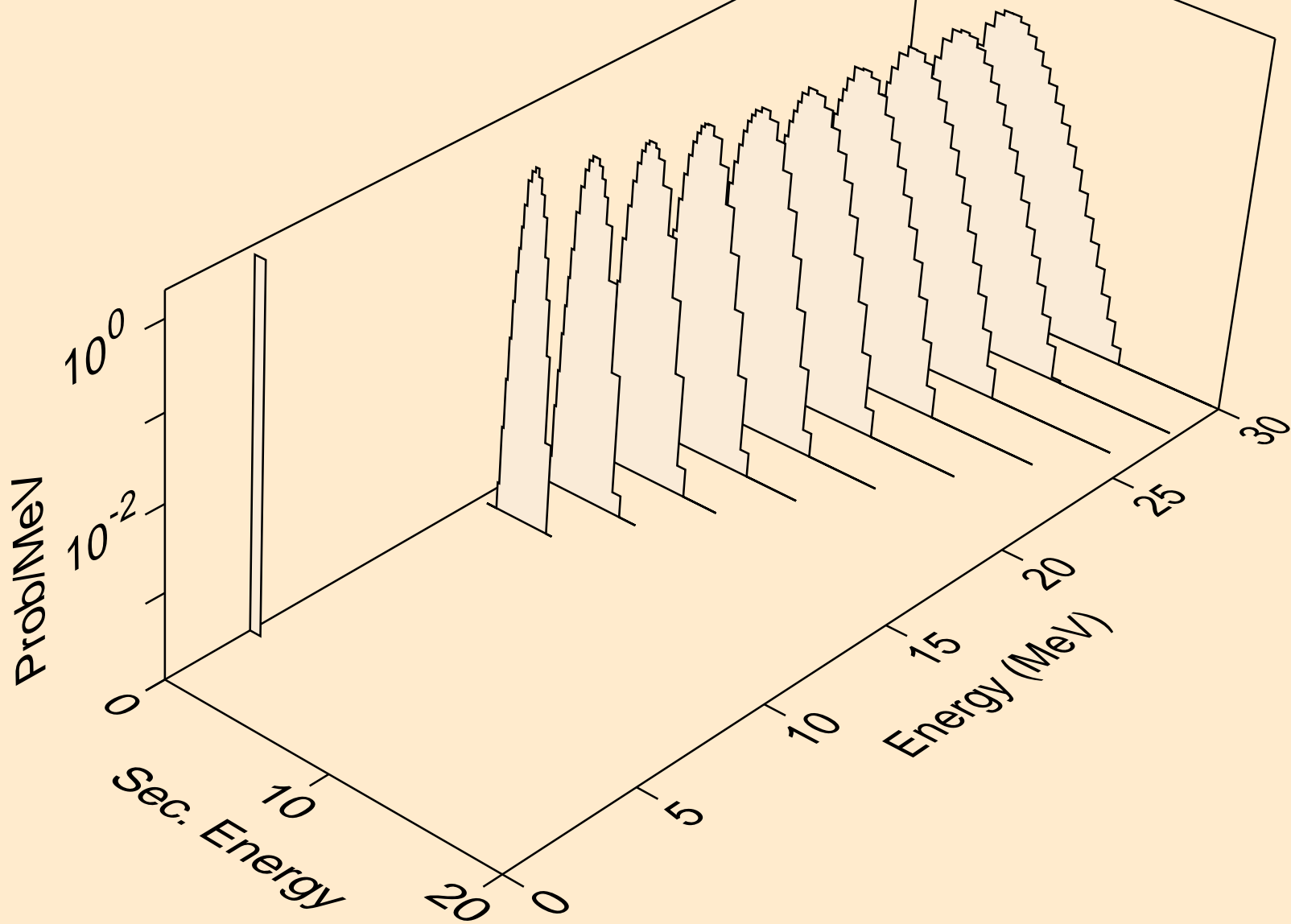
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



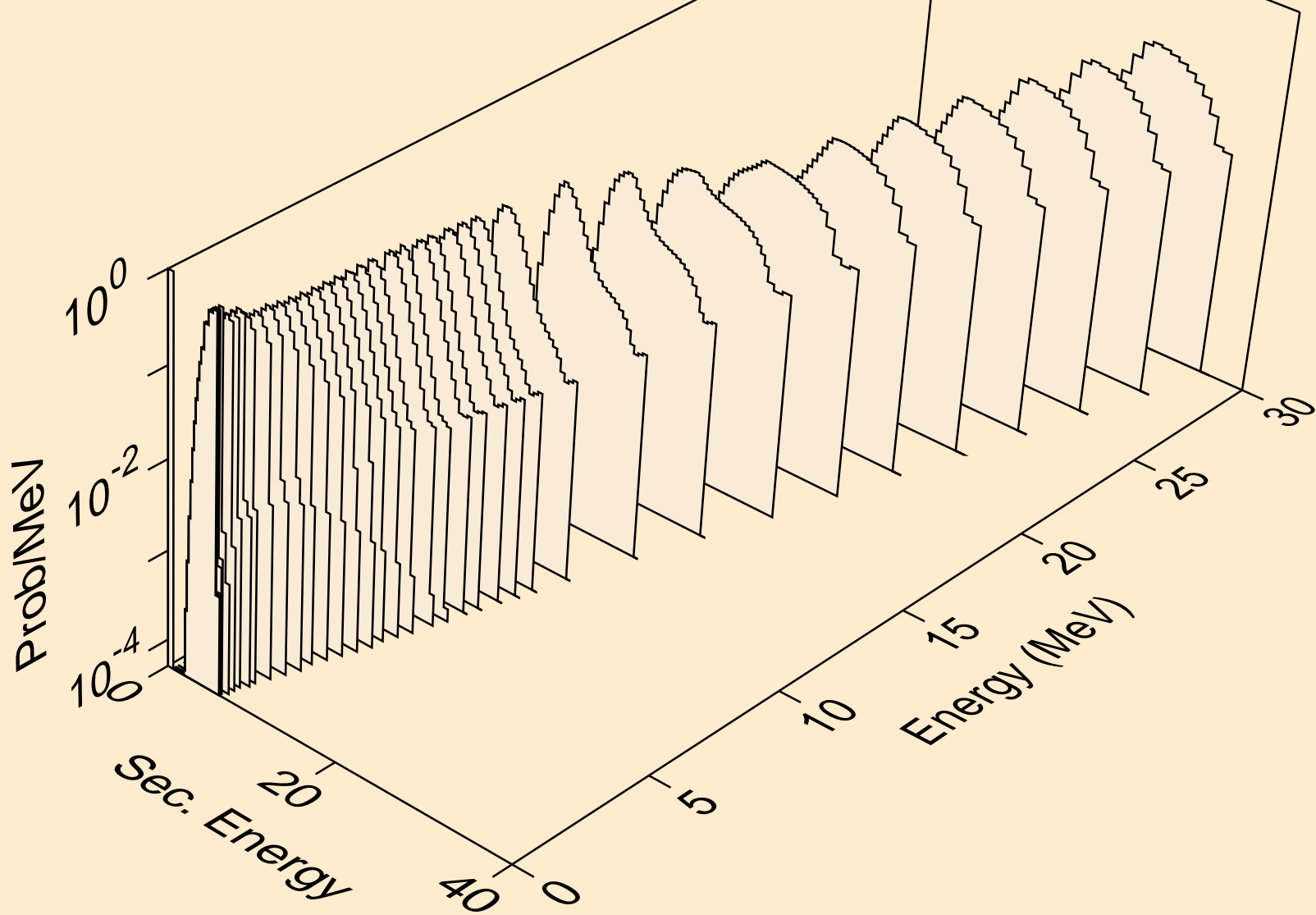
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)



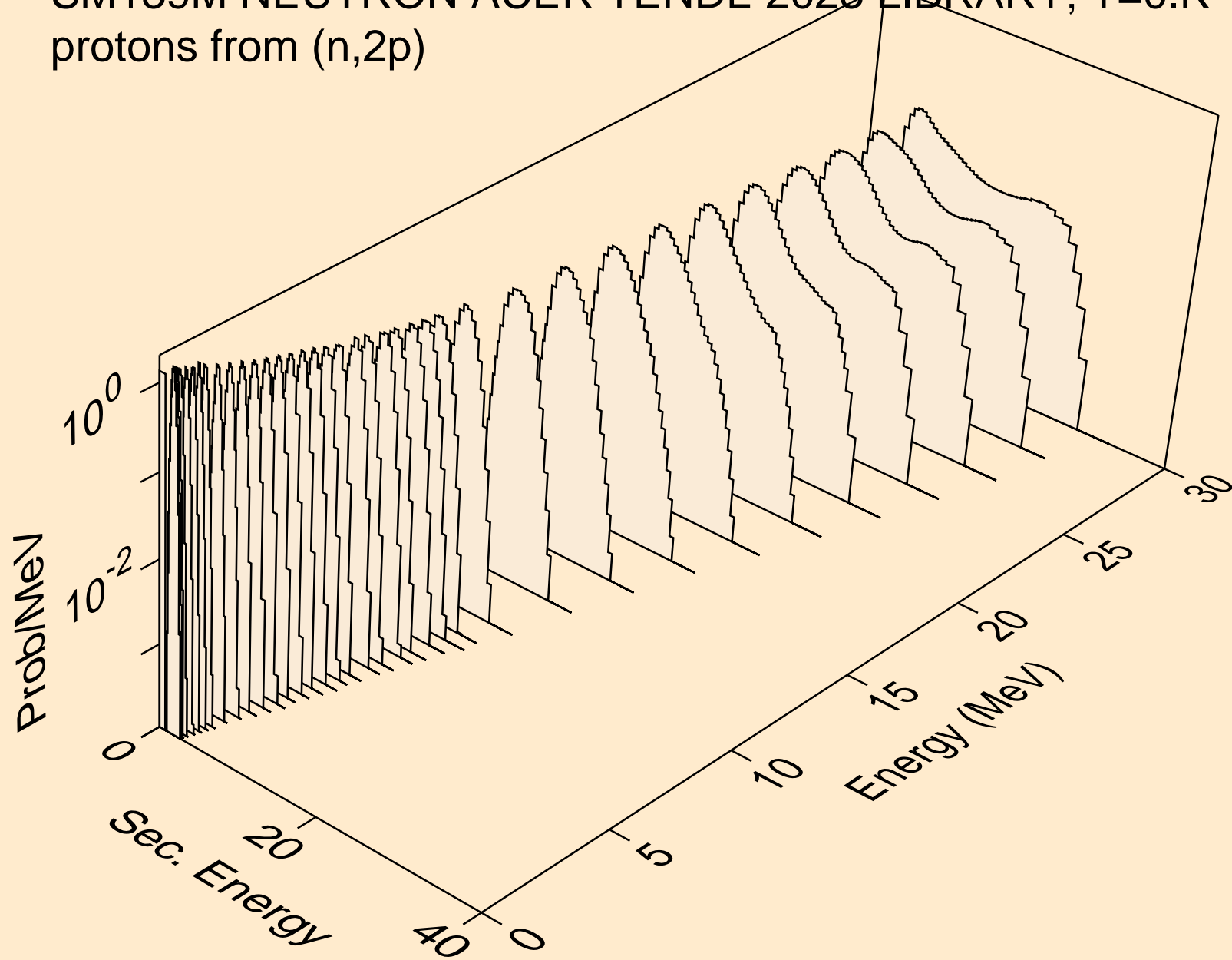
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)



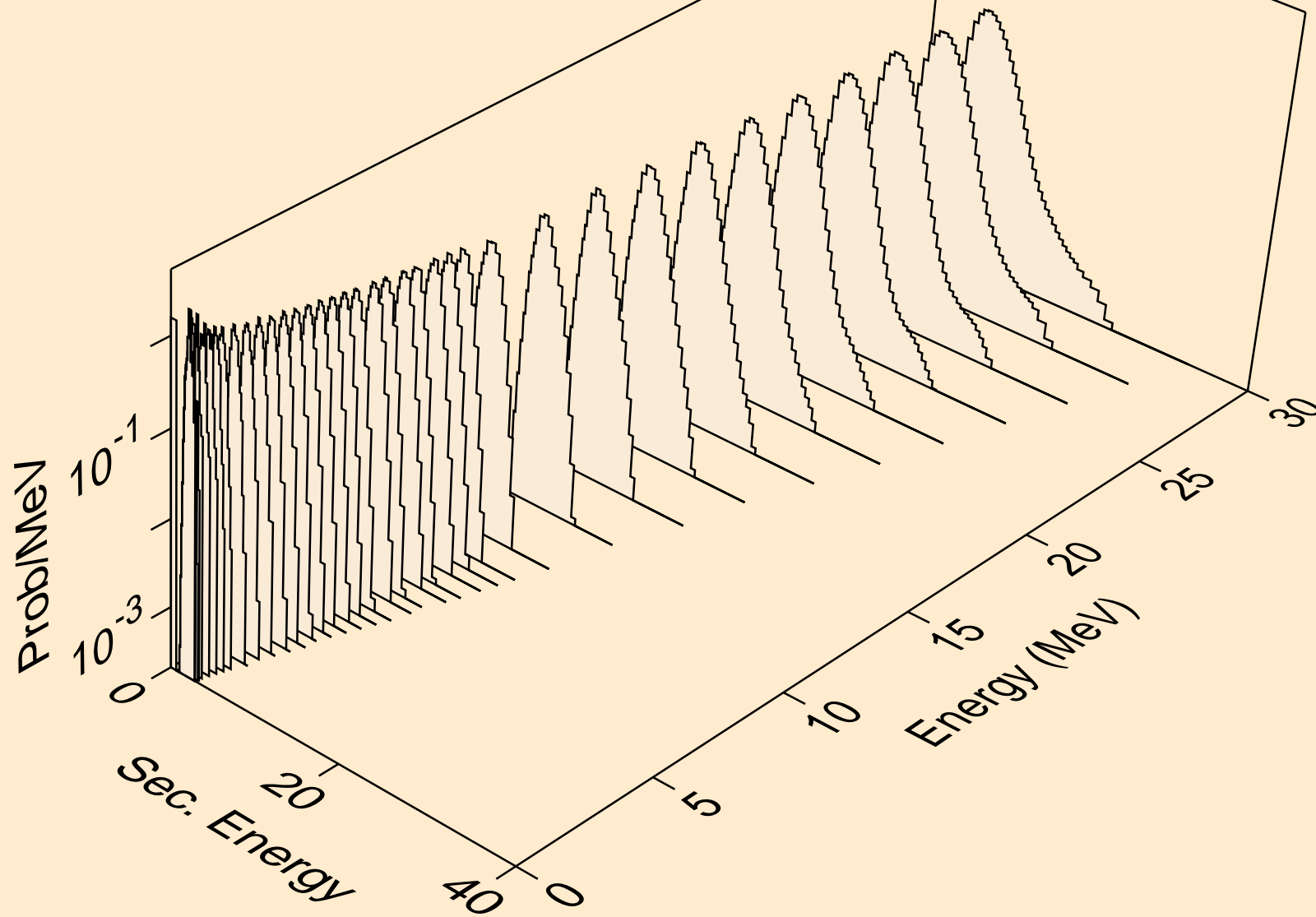
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



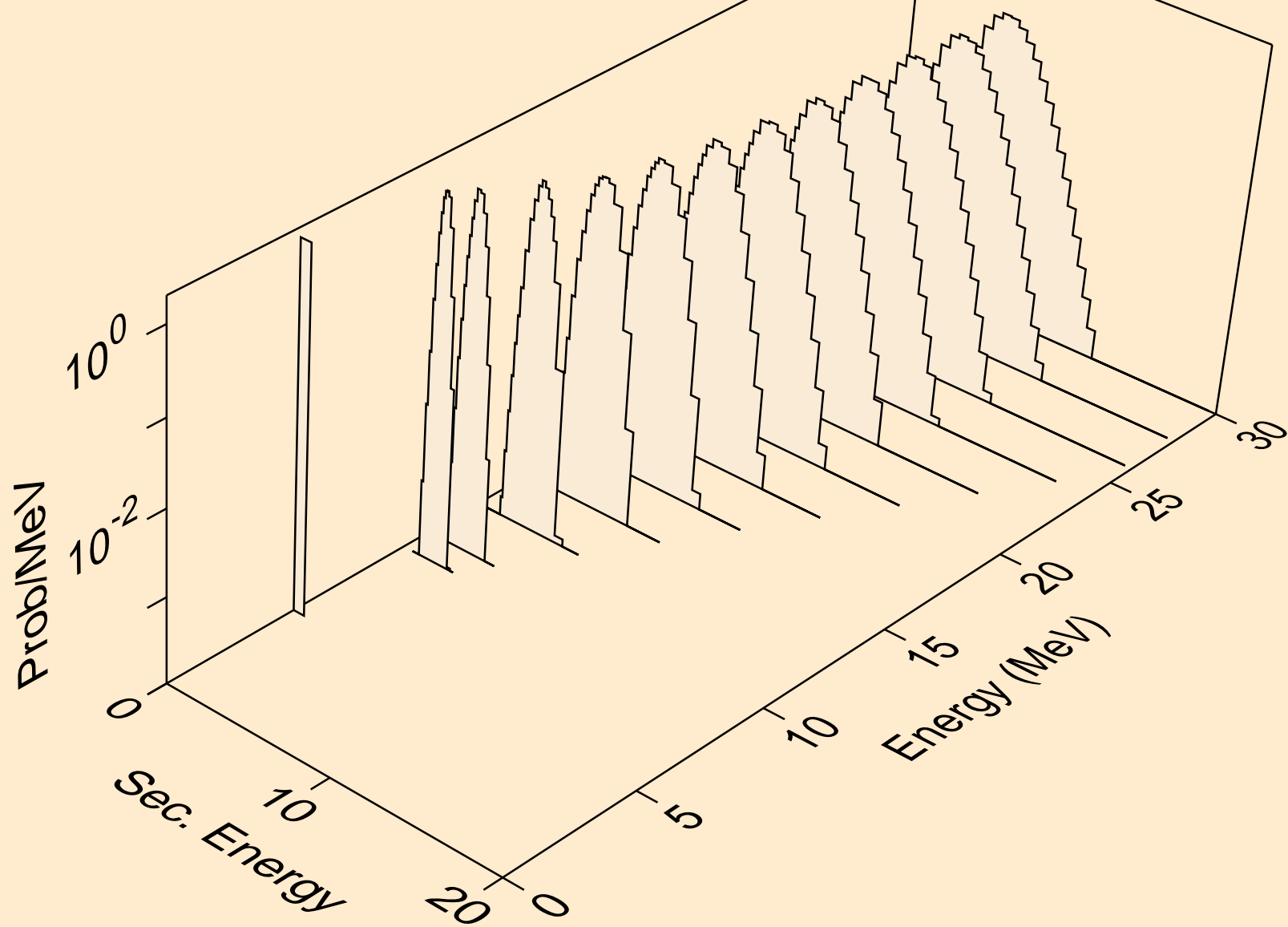
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)



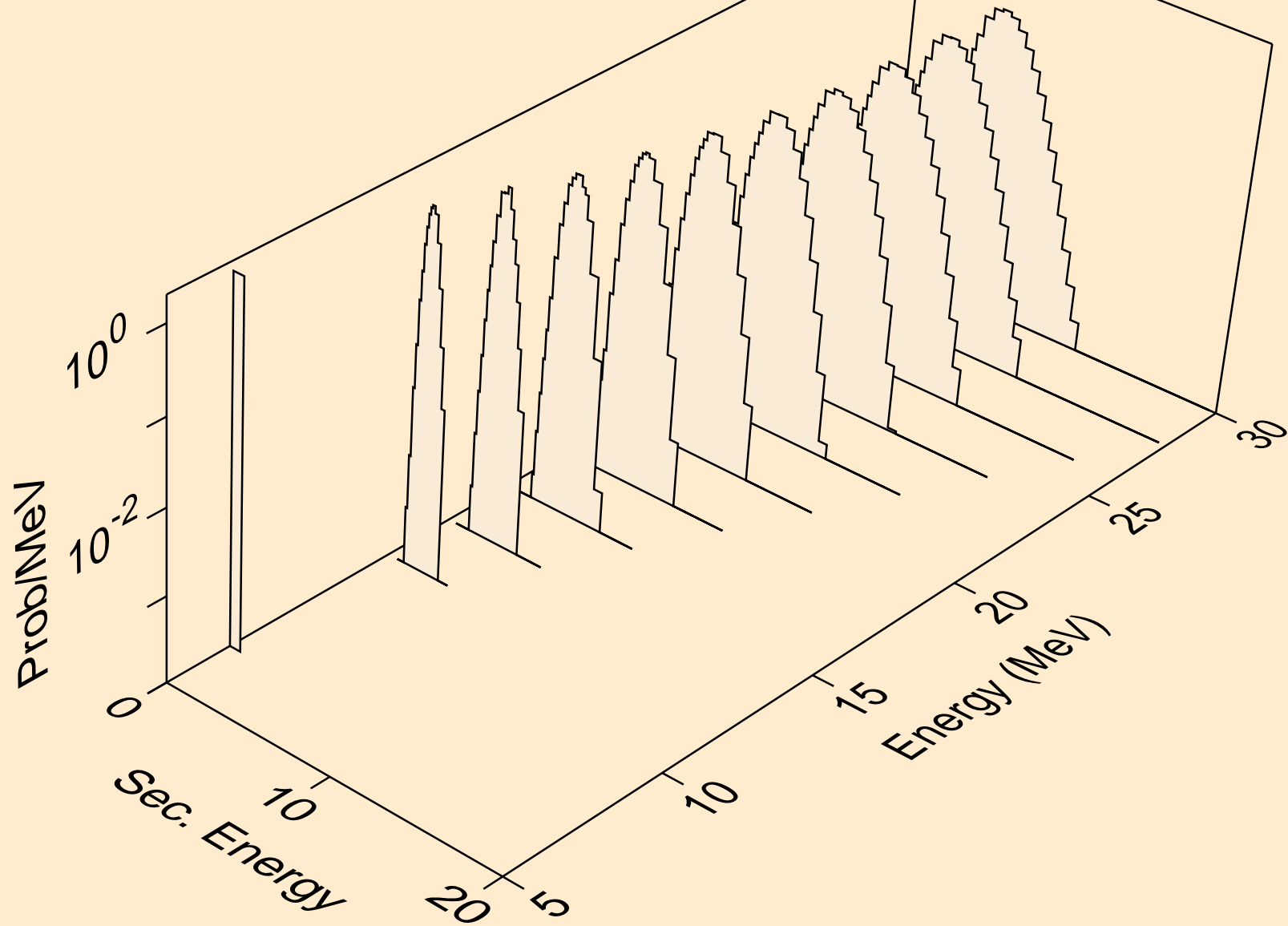
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



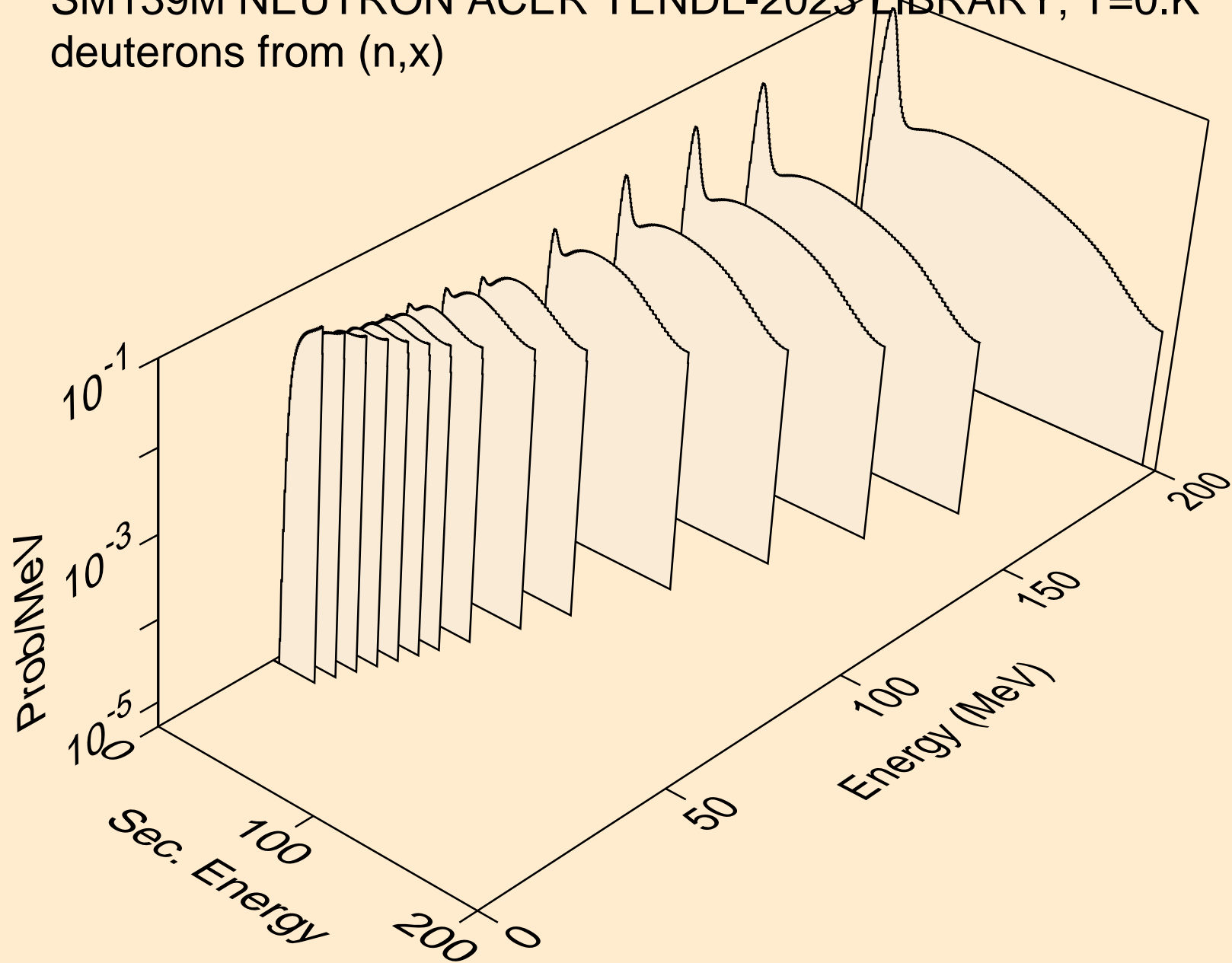
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)



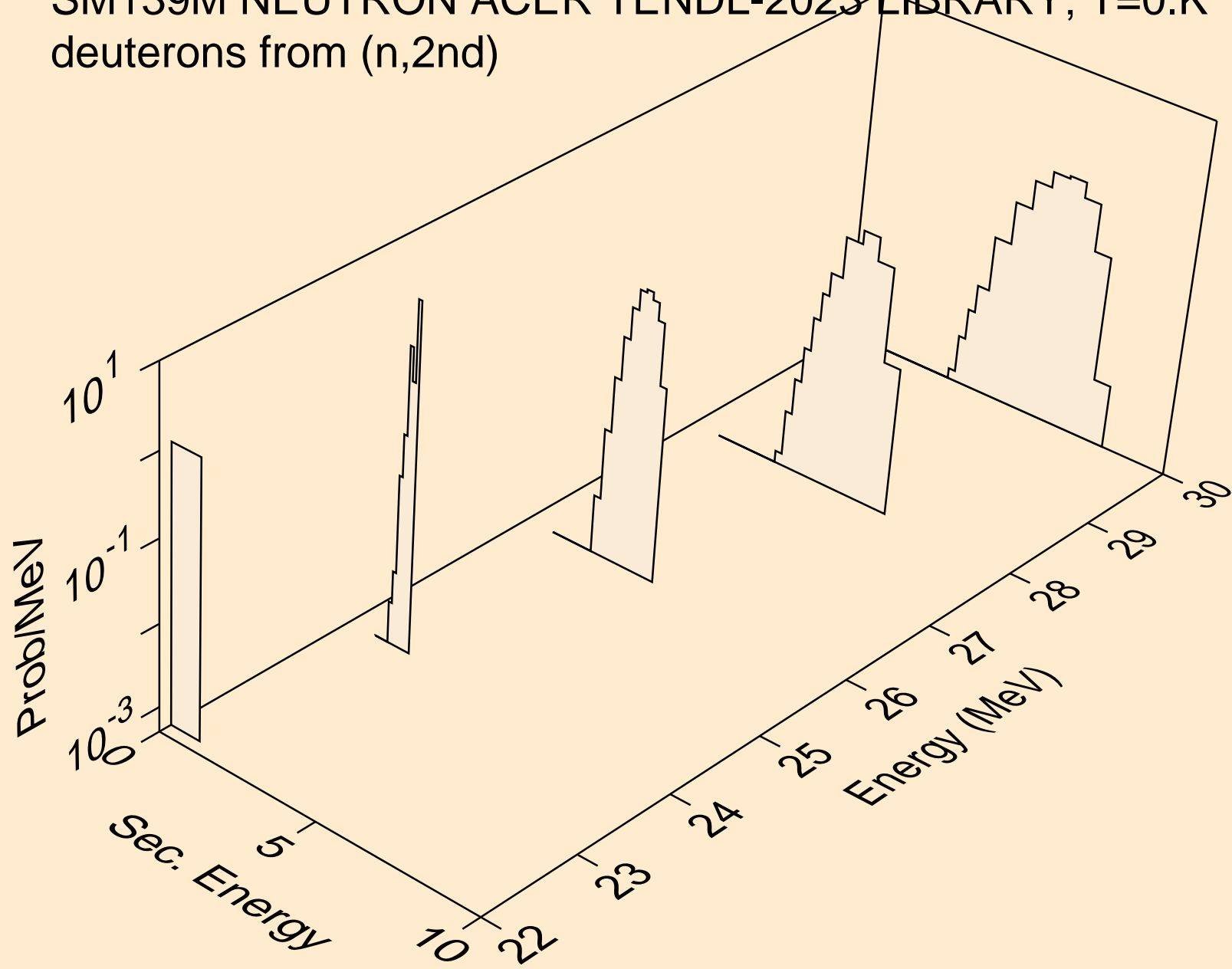
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)



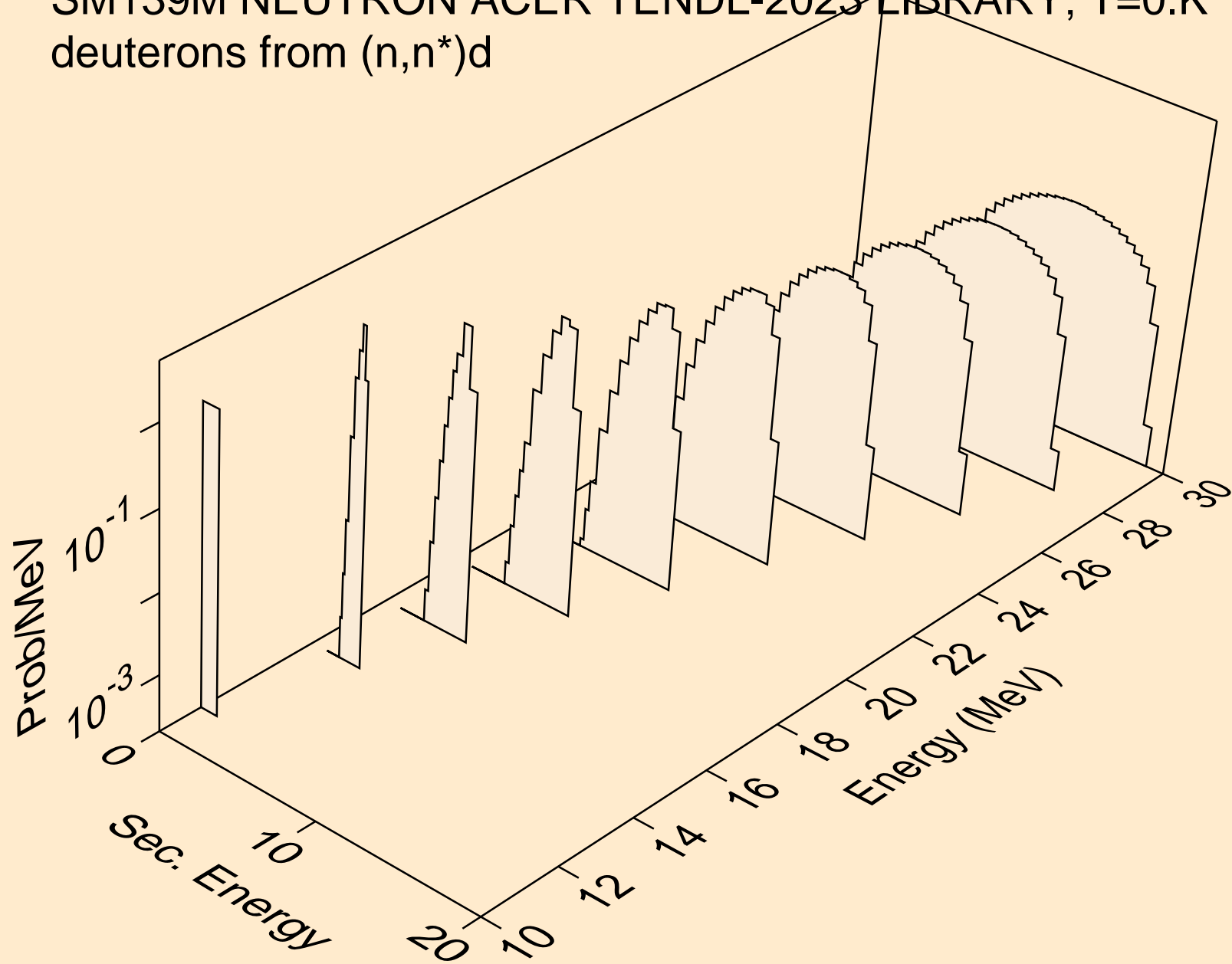
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



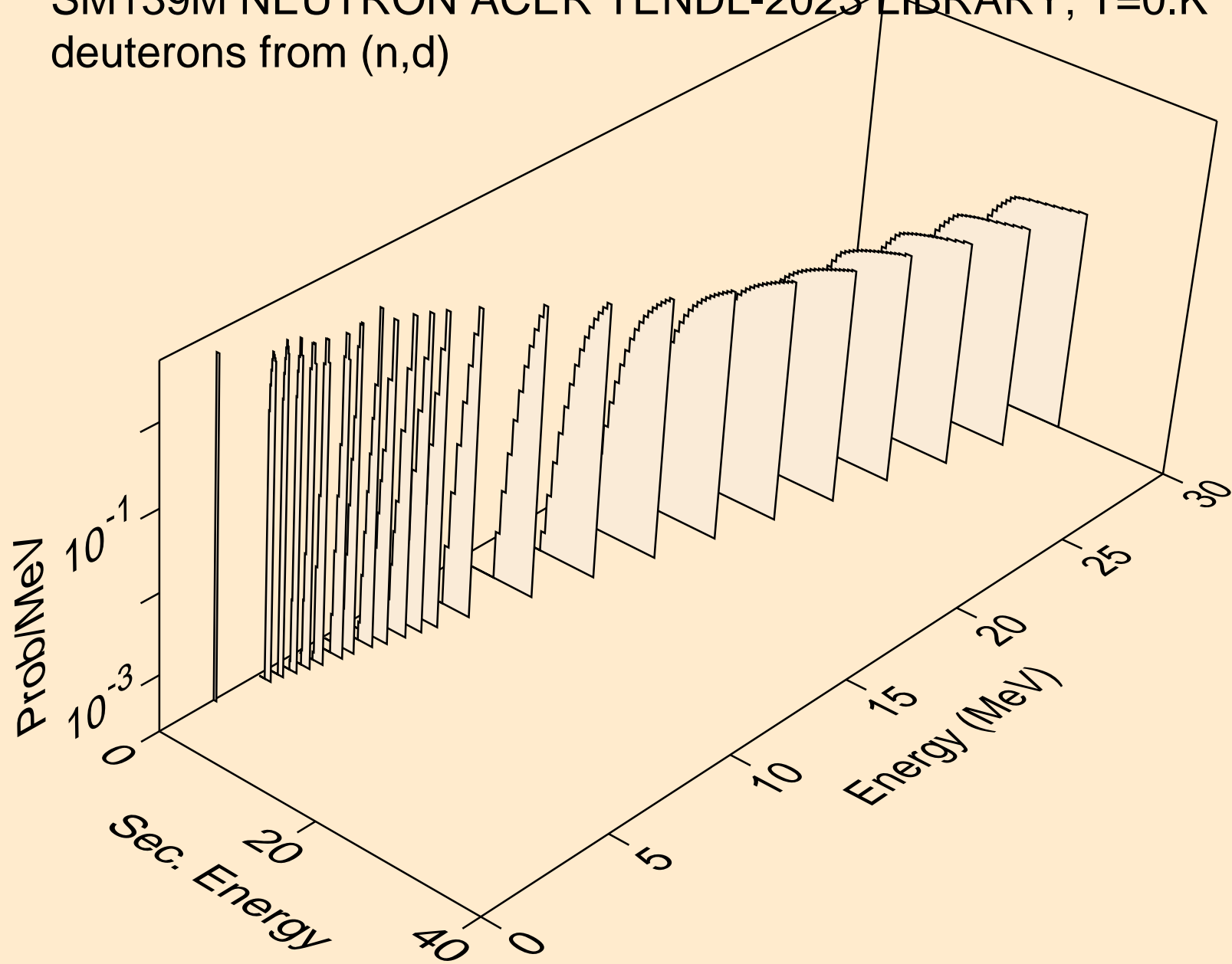
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)



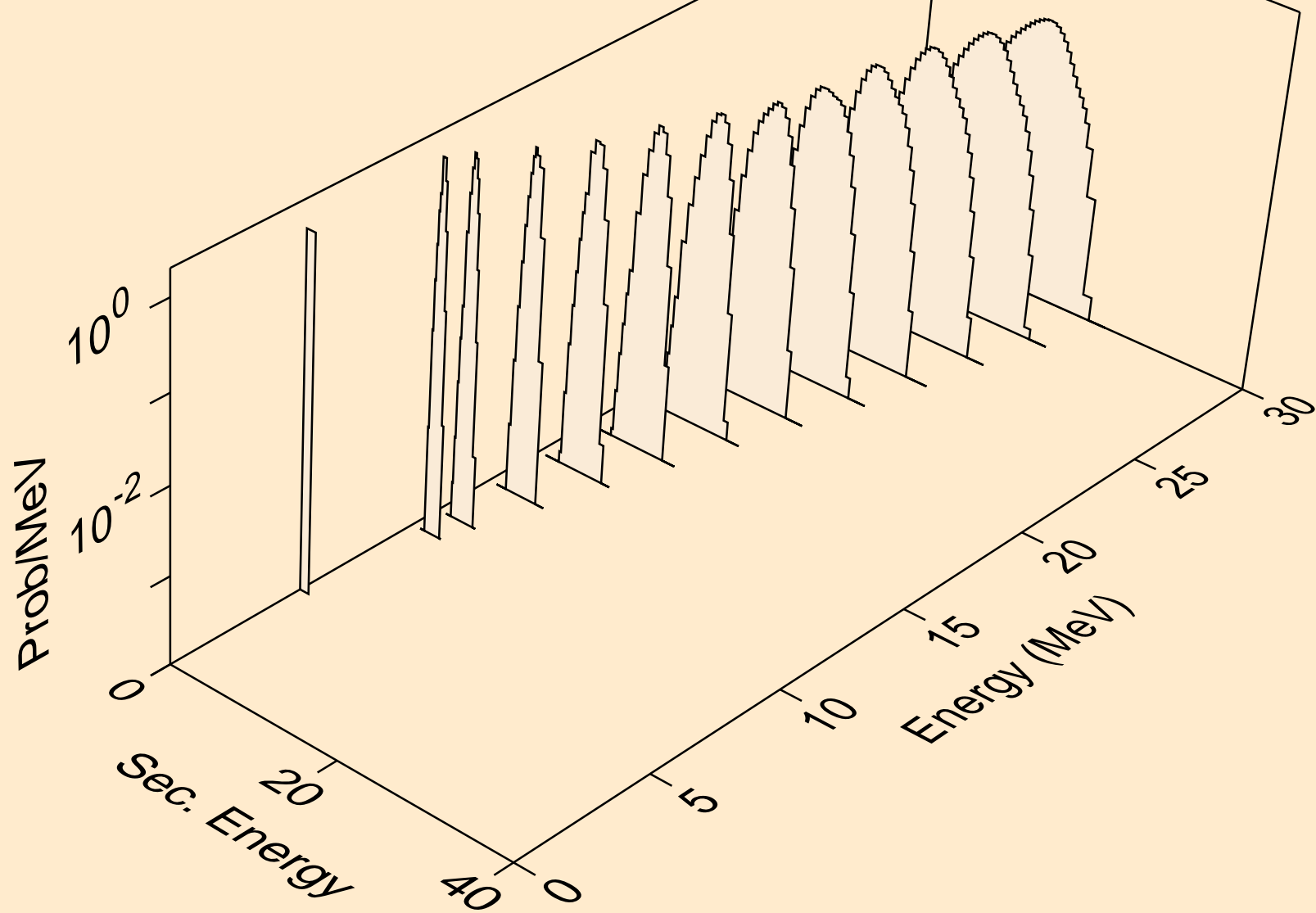
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



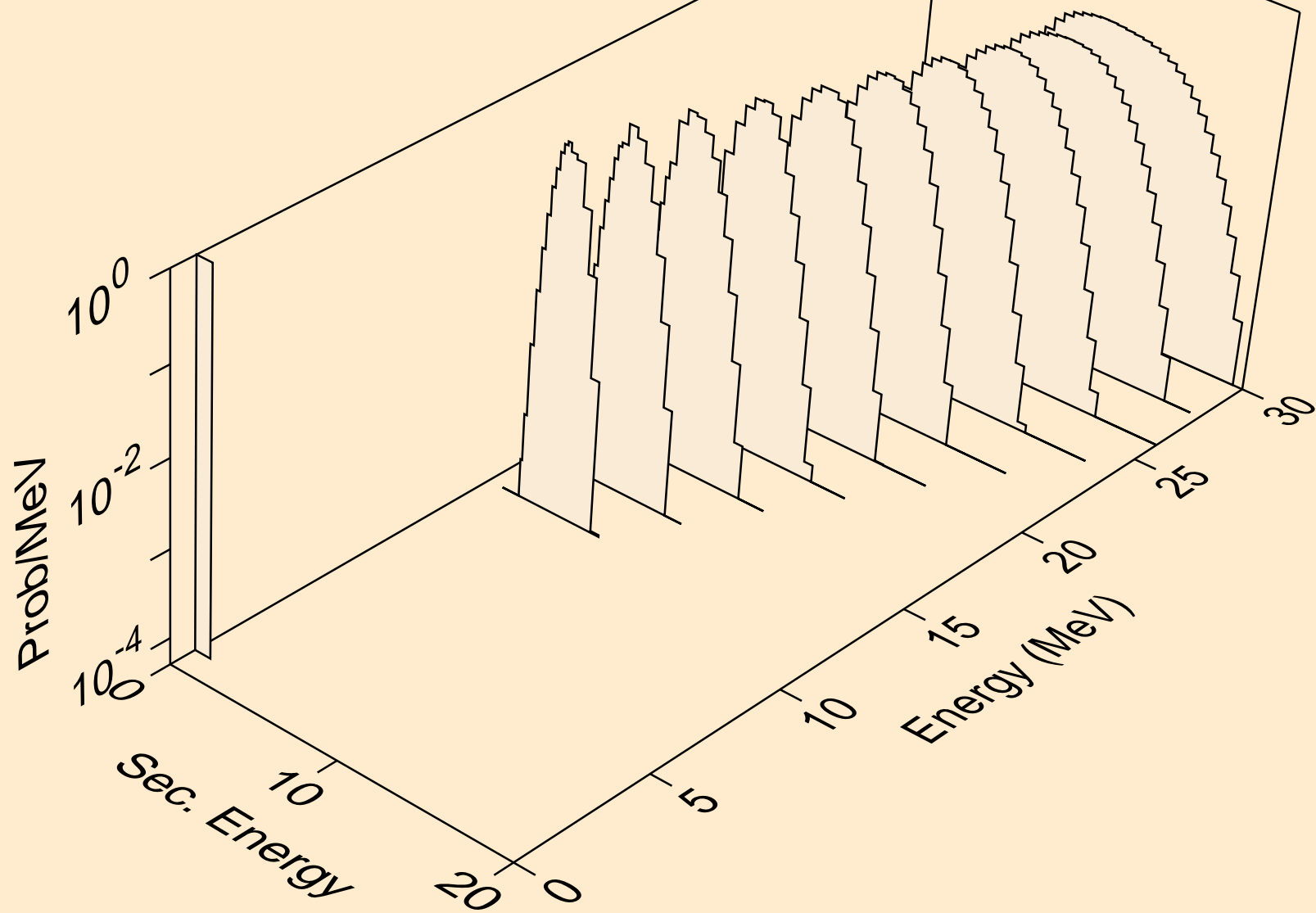
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)



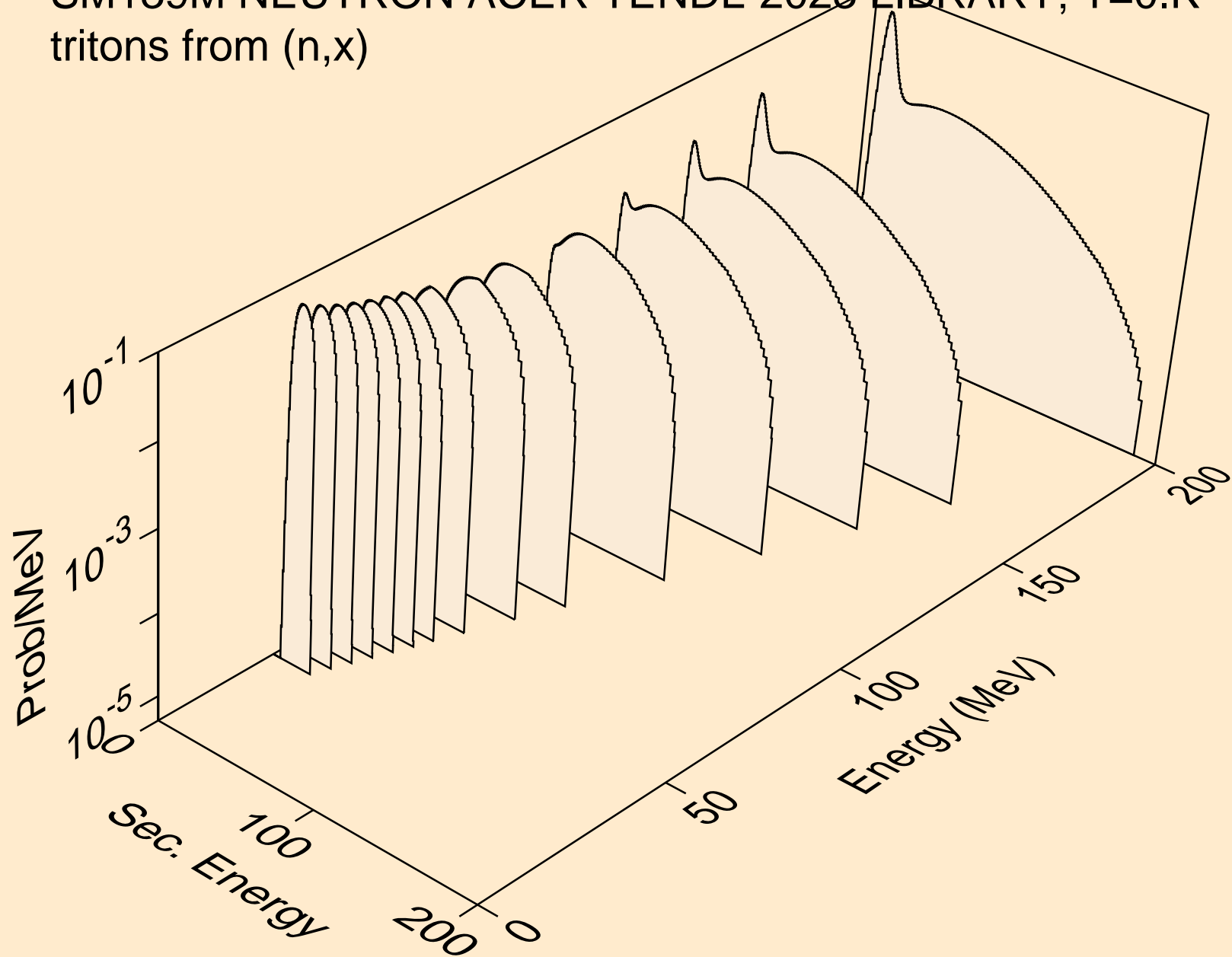
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)



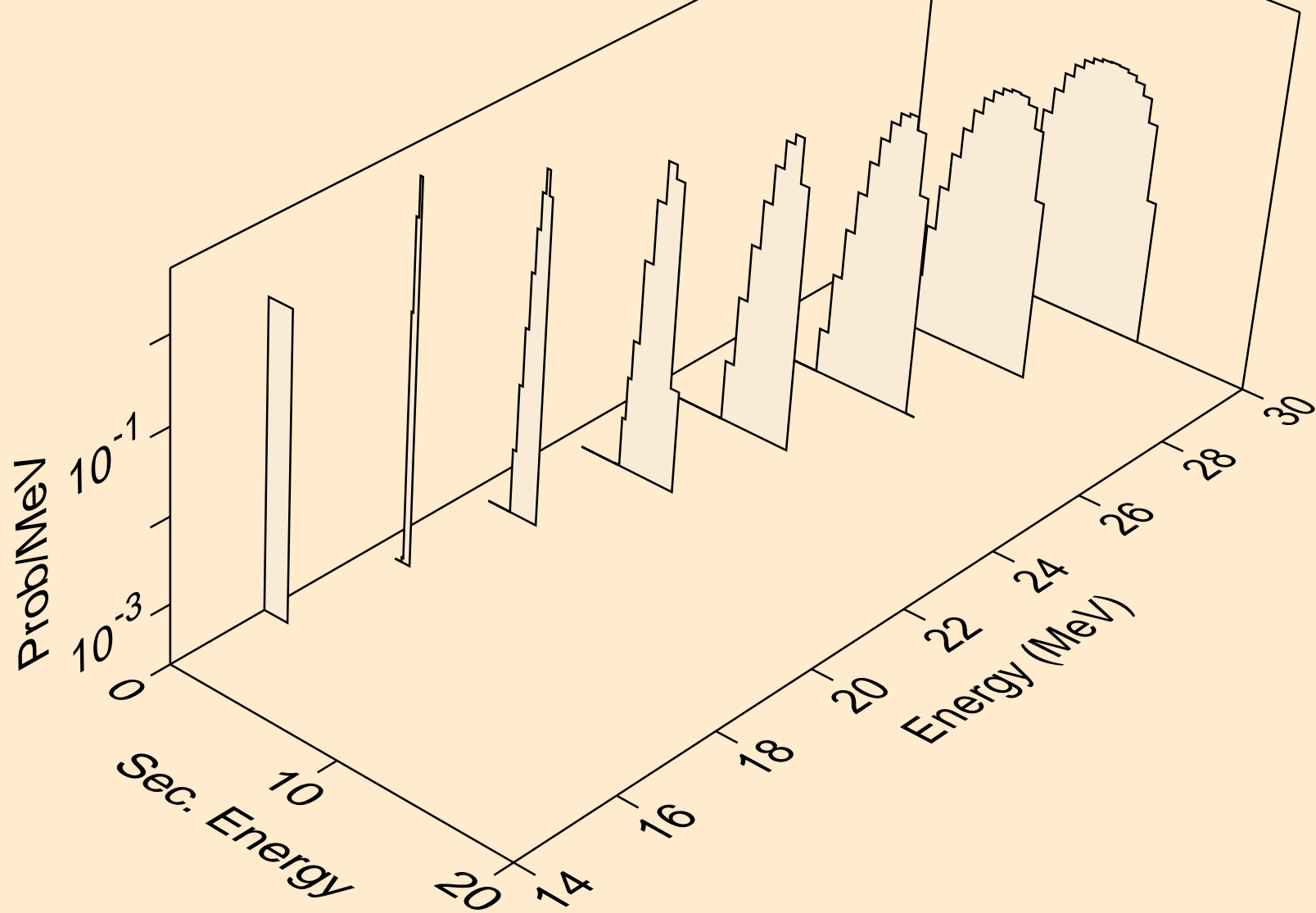
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,da)



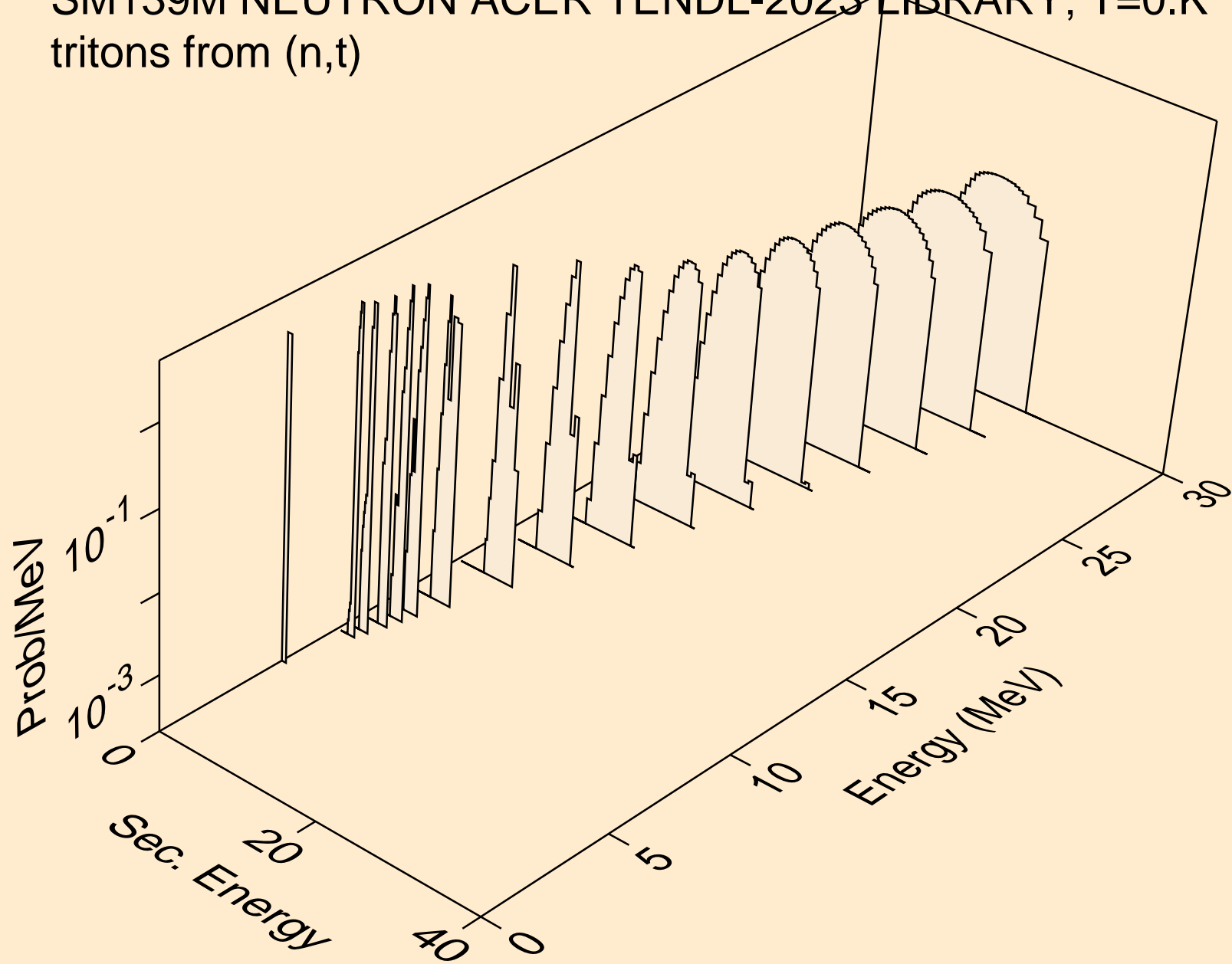
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)



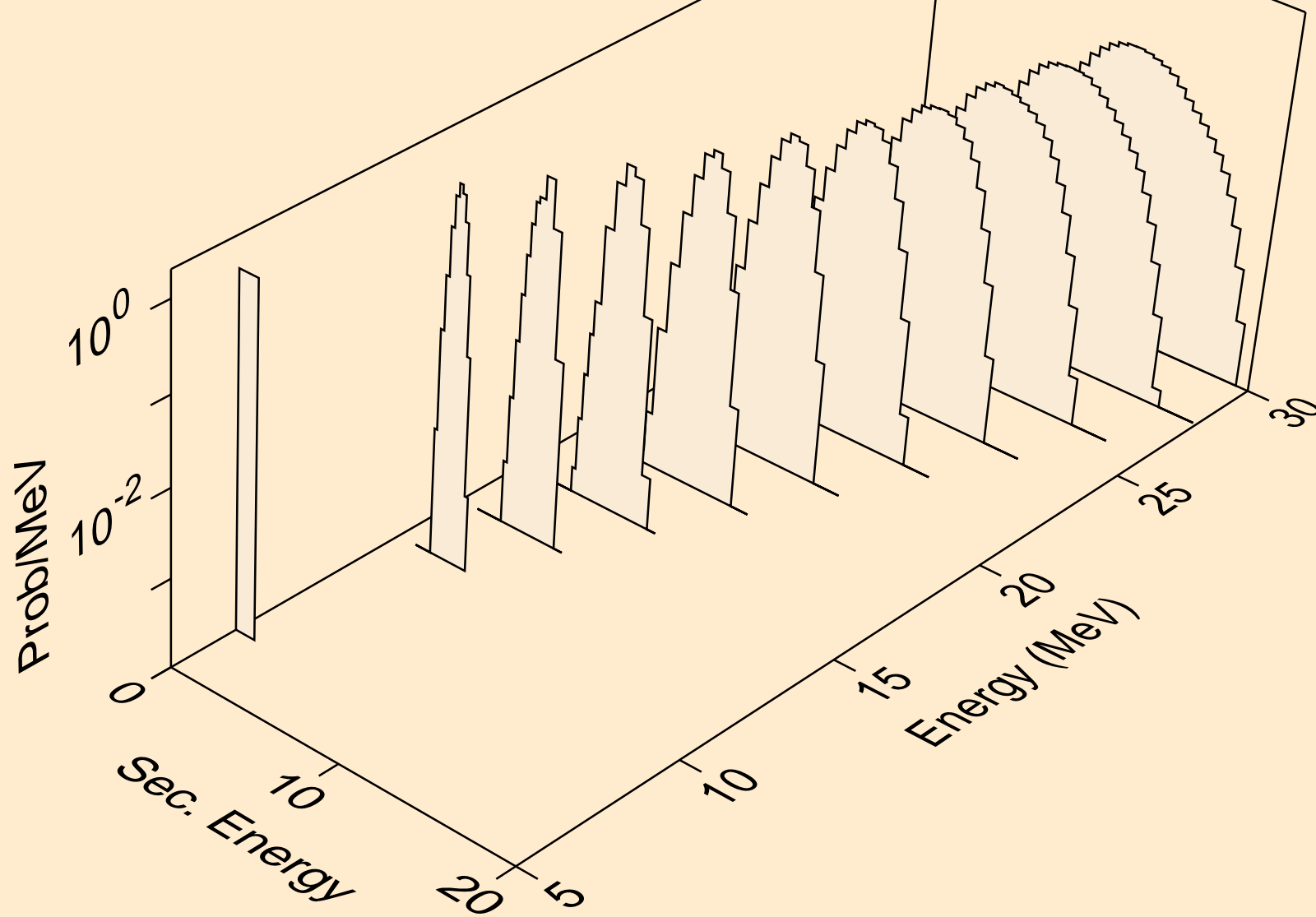
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t



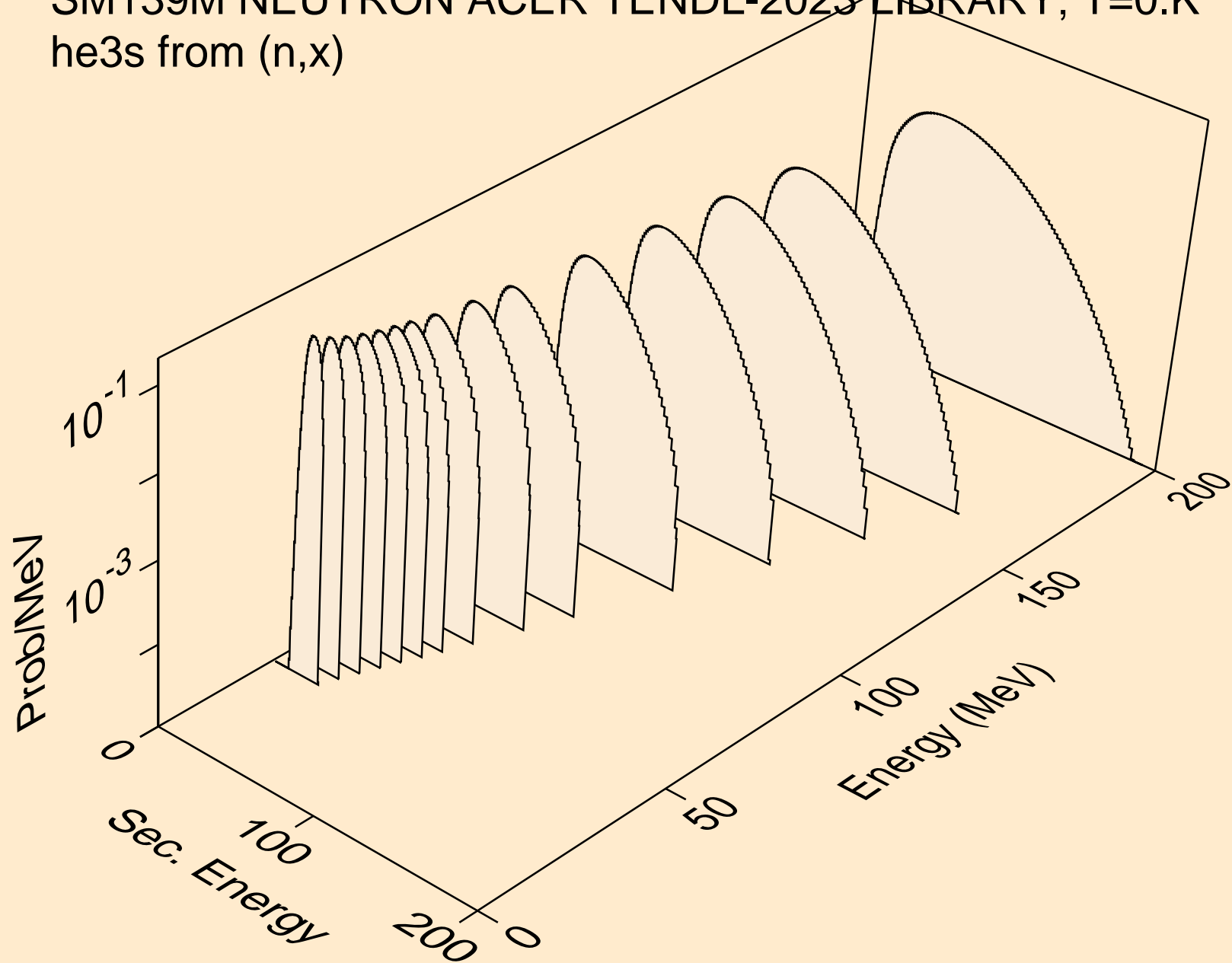
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)



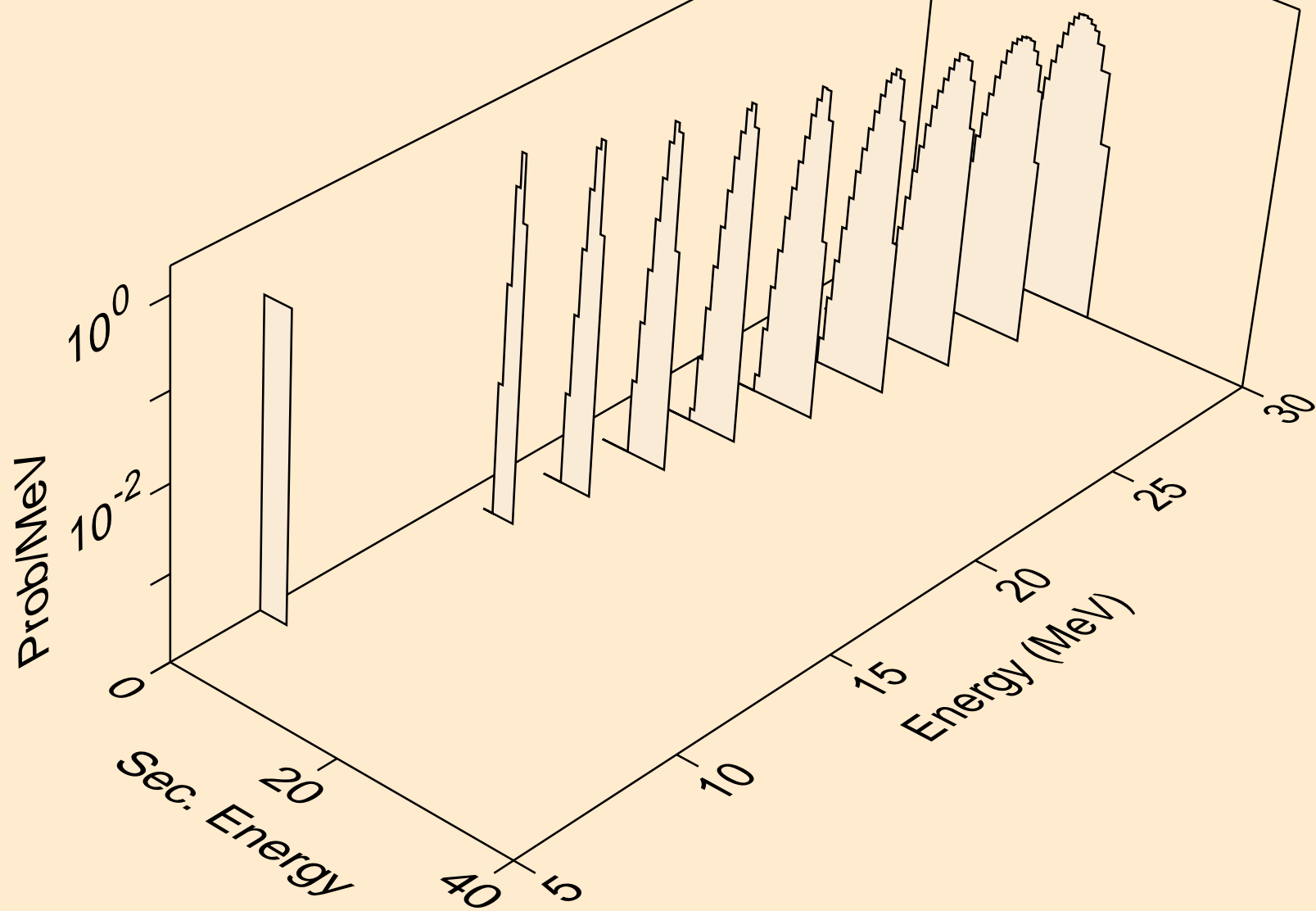
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



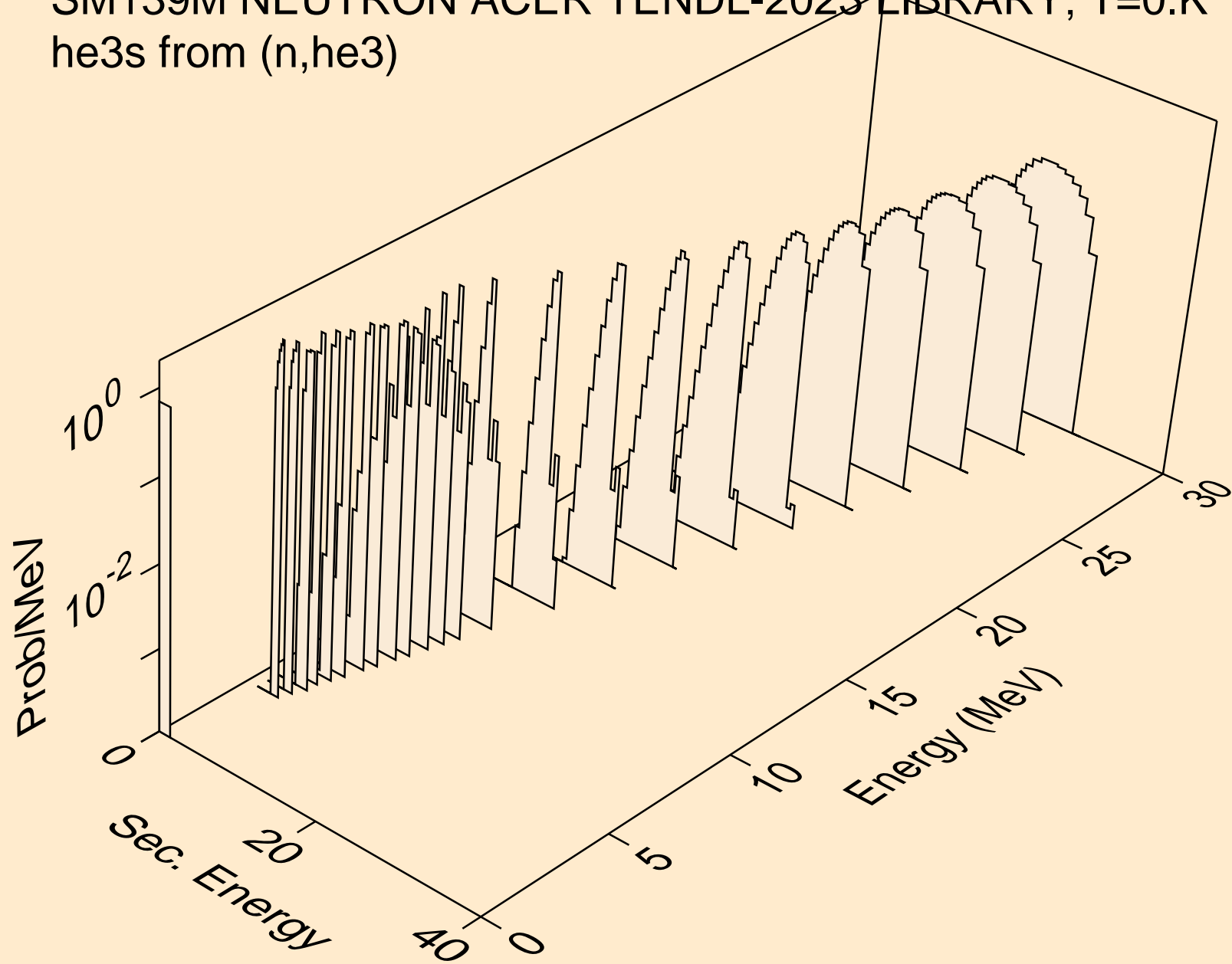
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



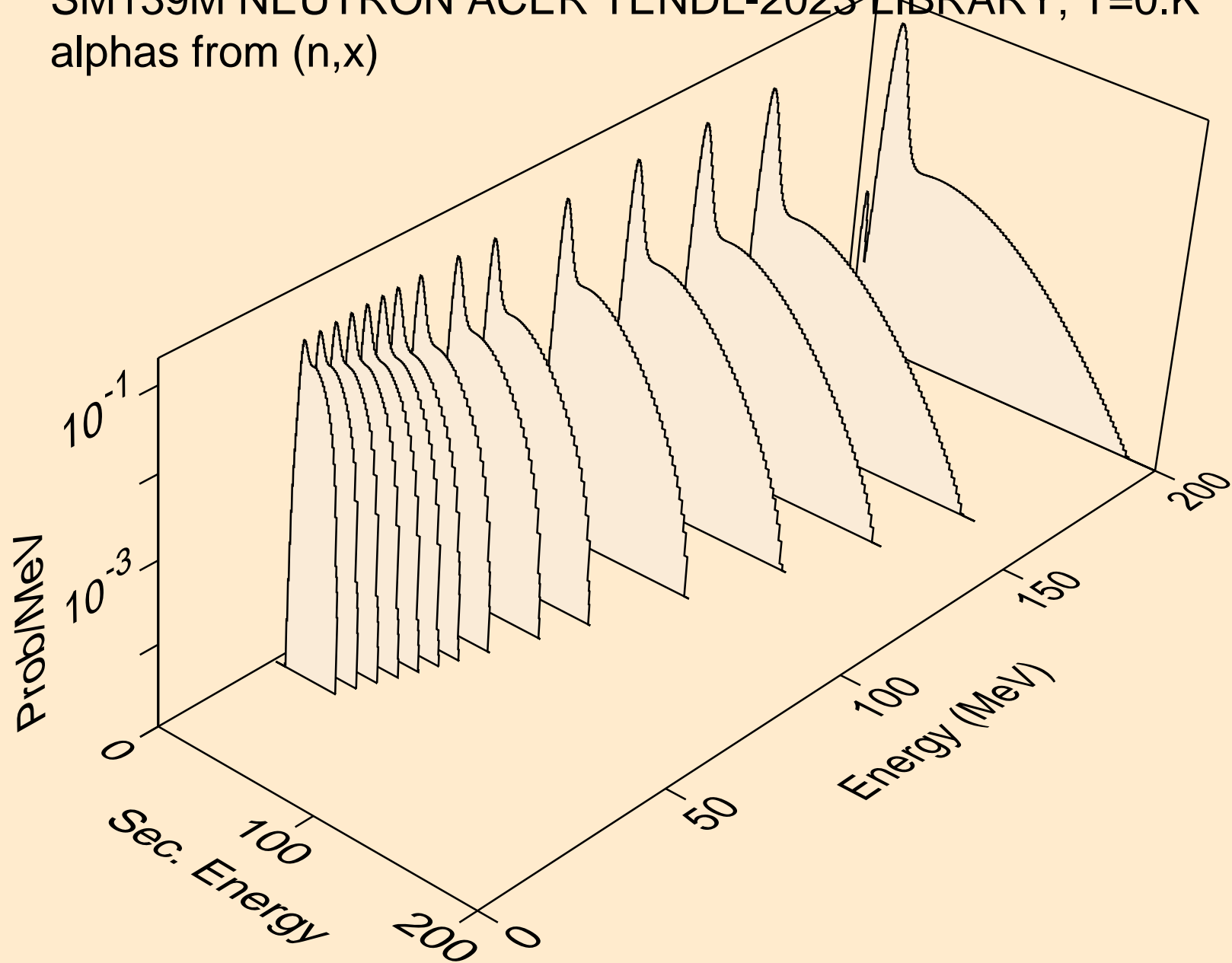
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



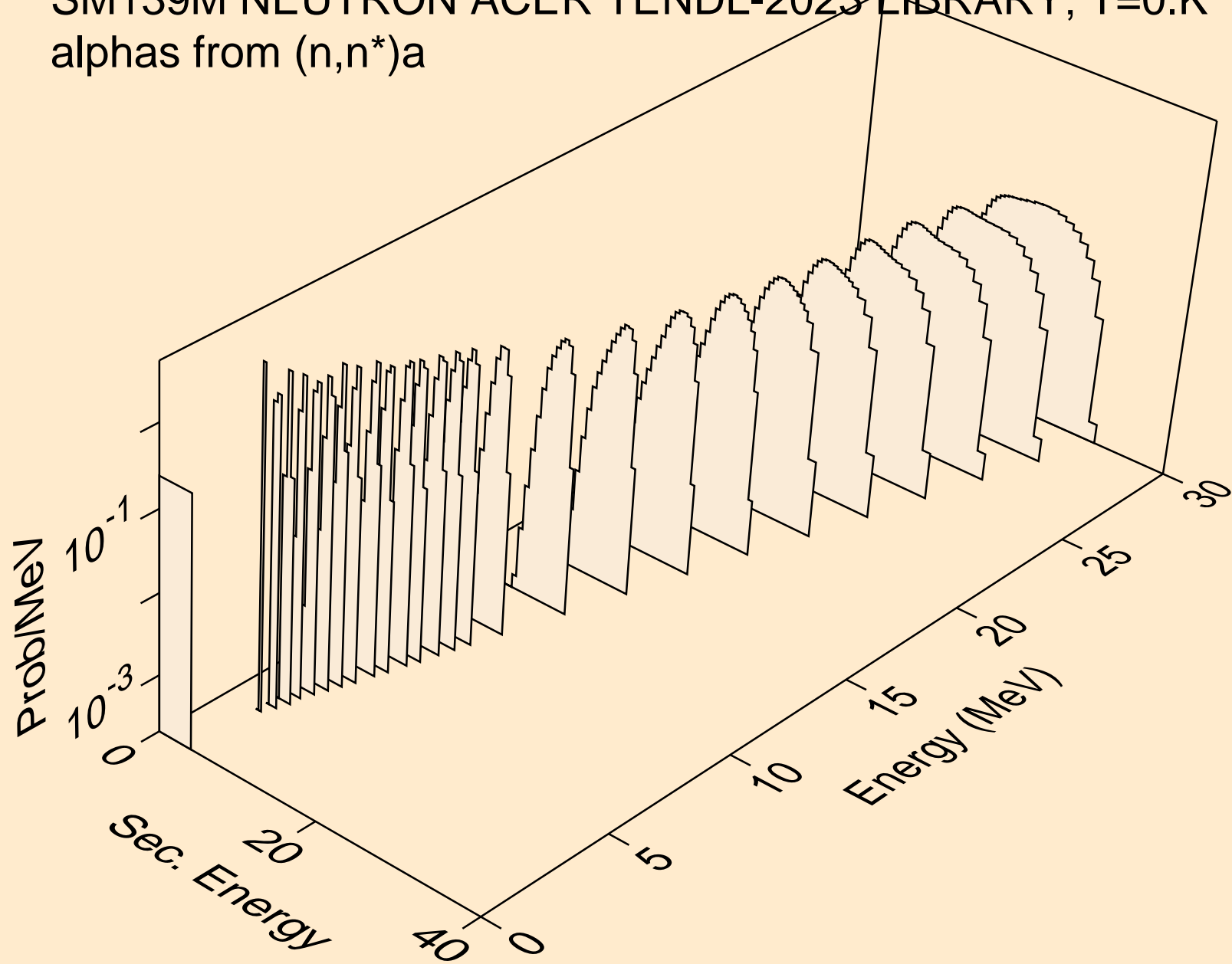
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)



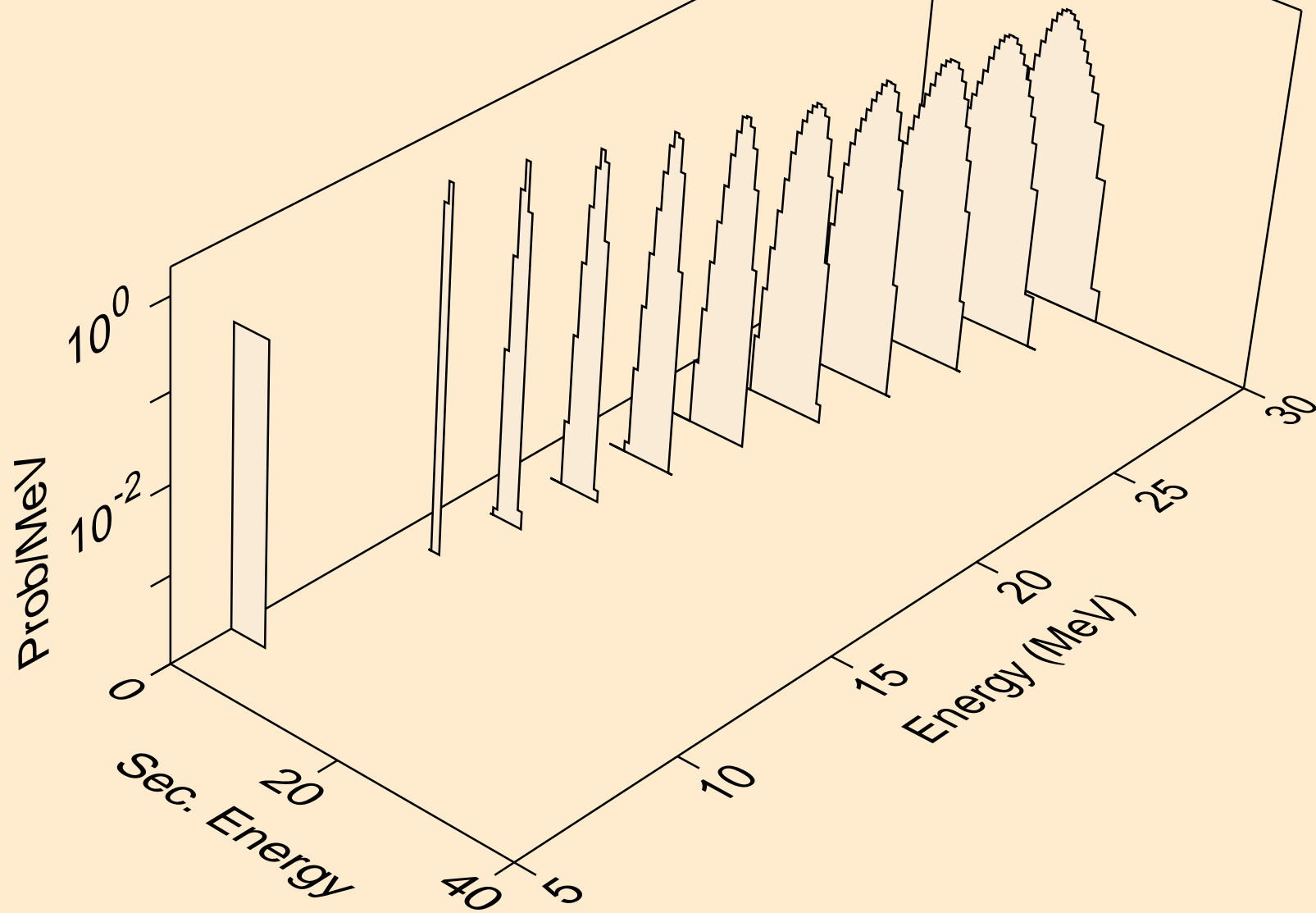
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



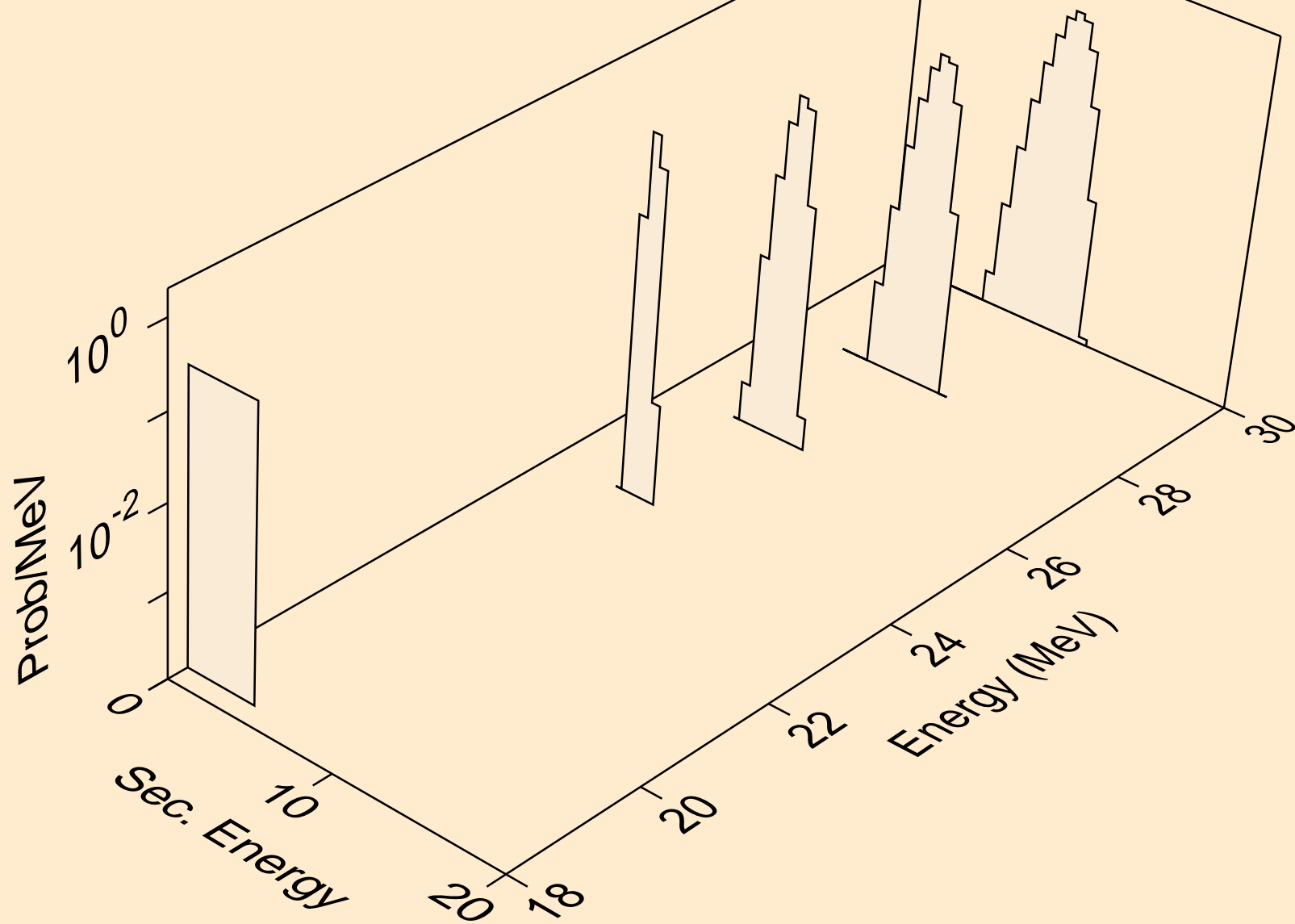
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a



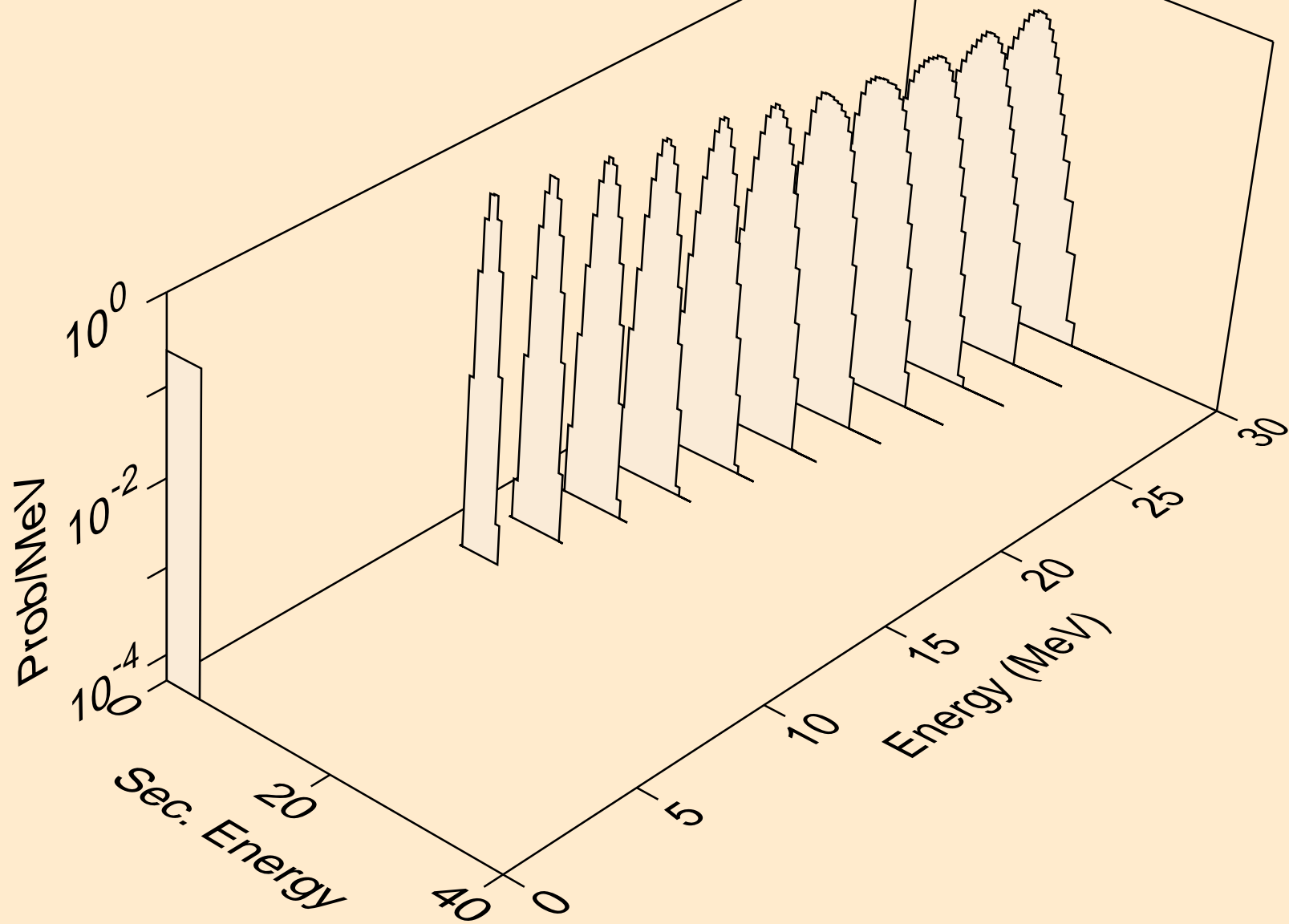
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a



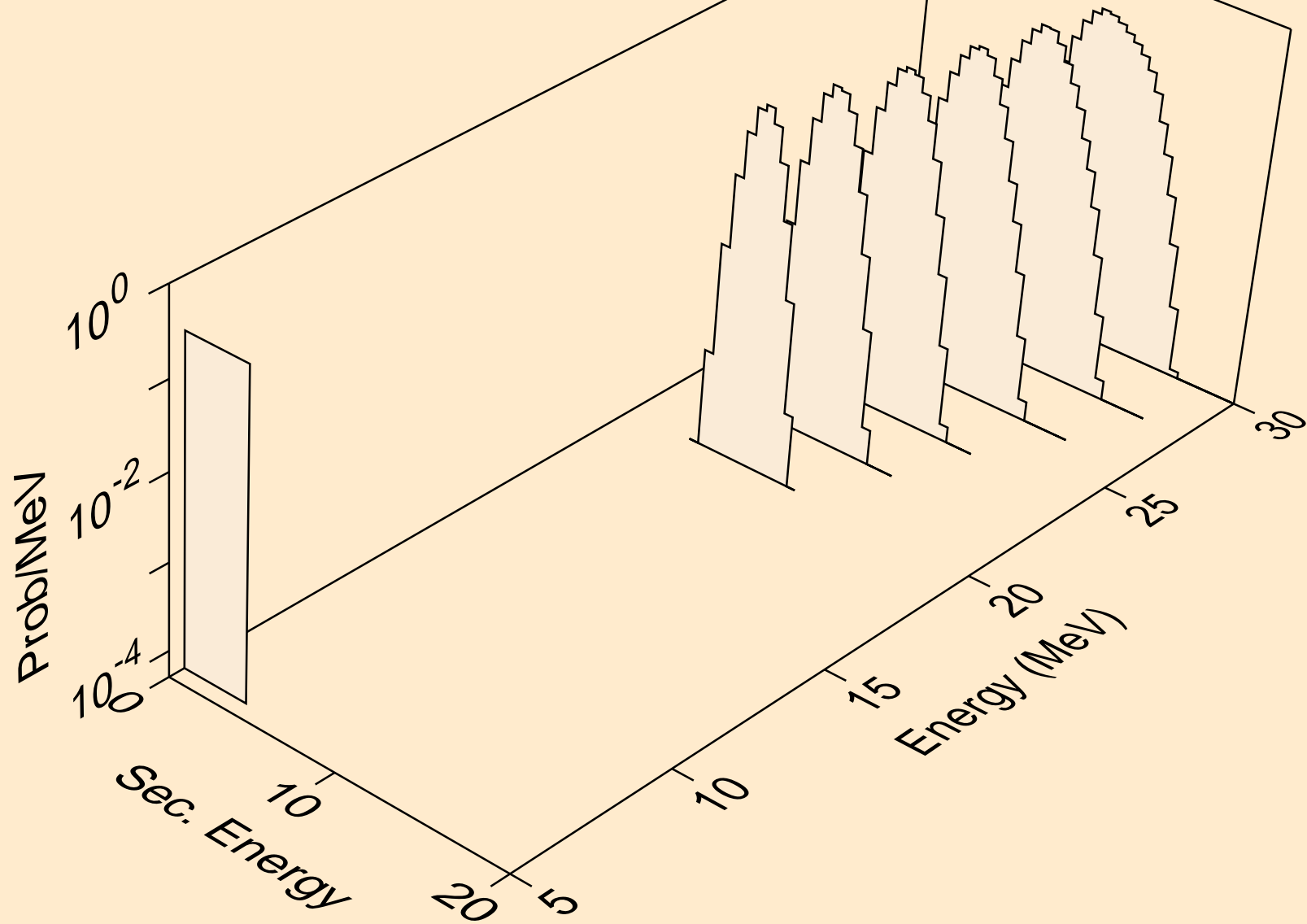
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



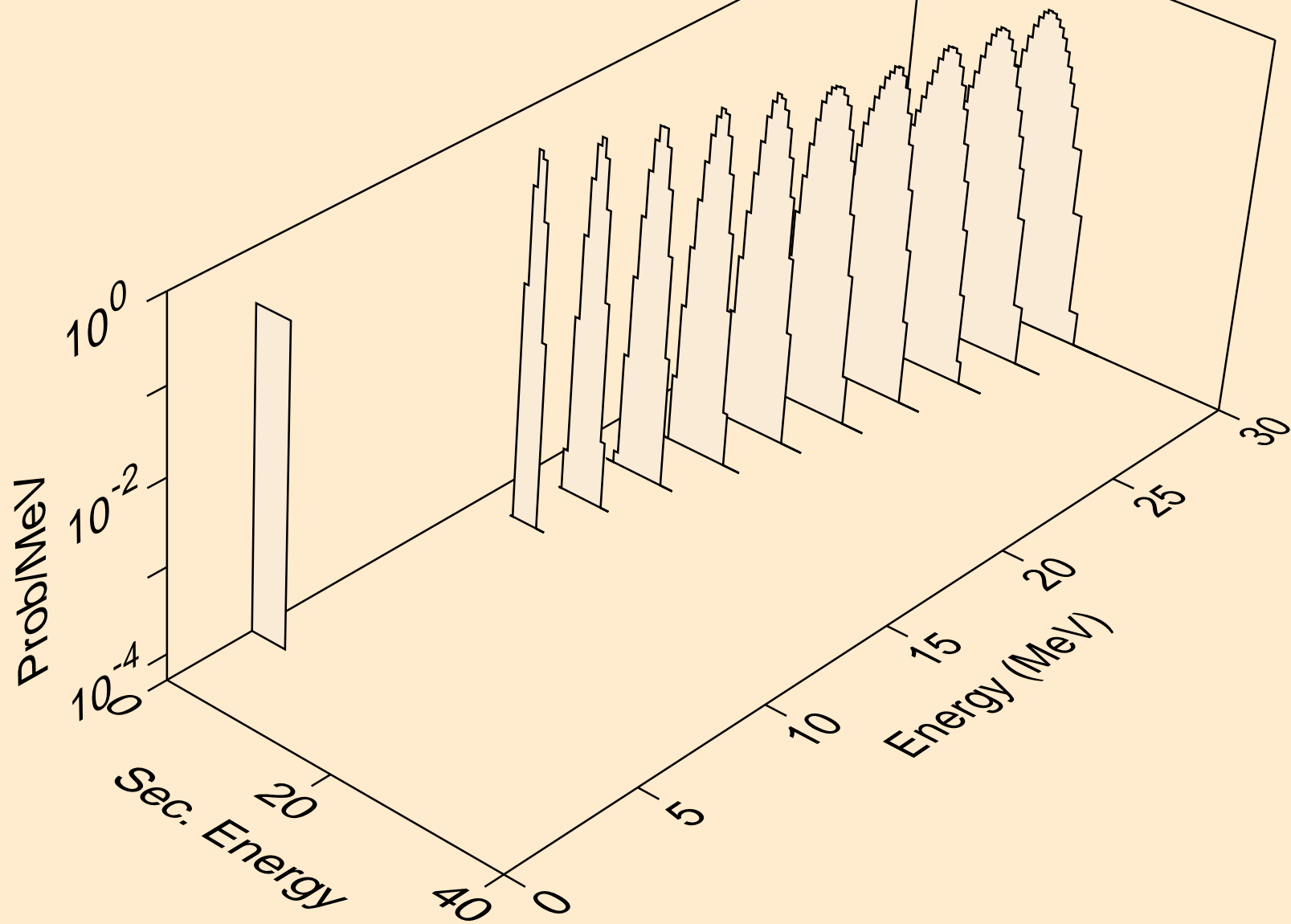
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a



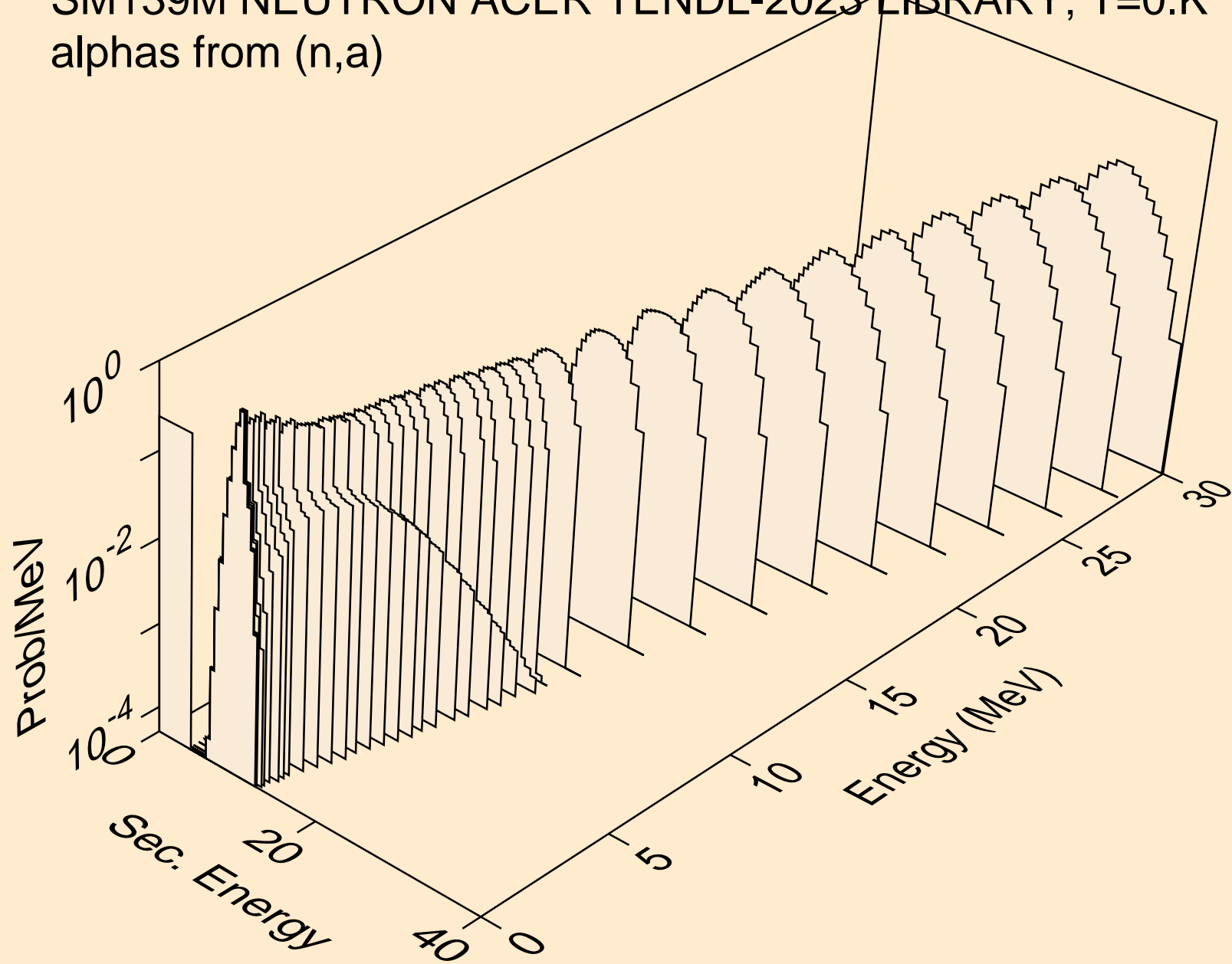
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)2a



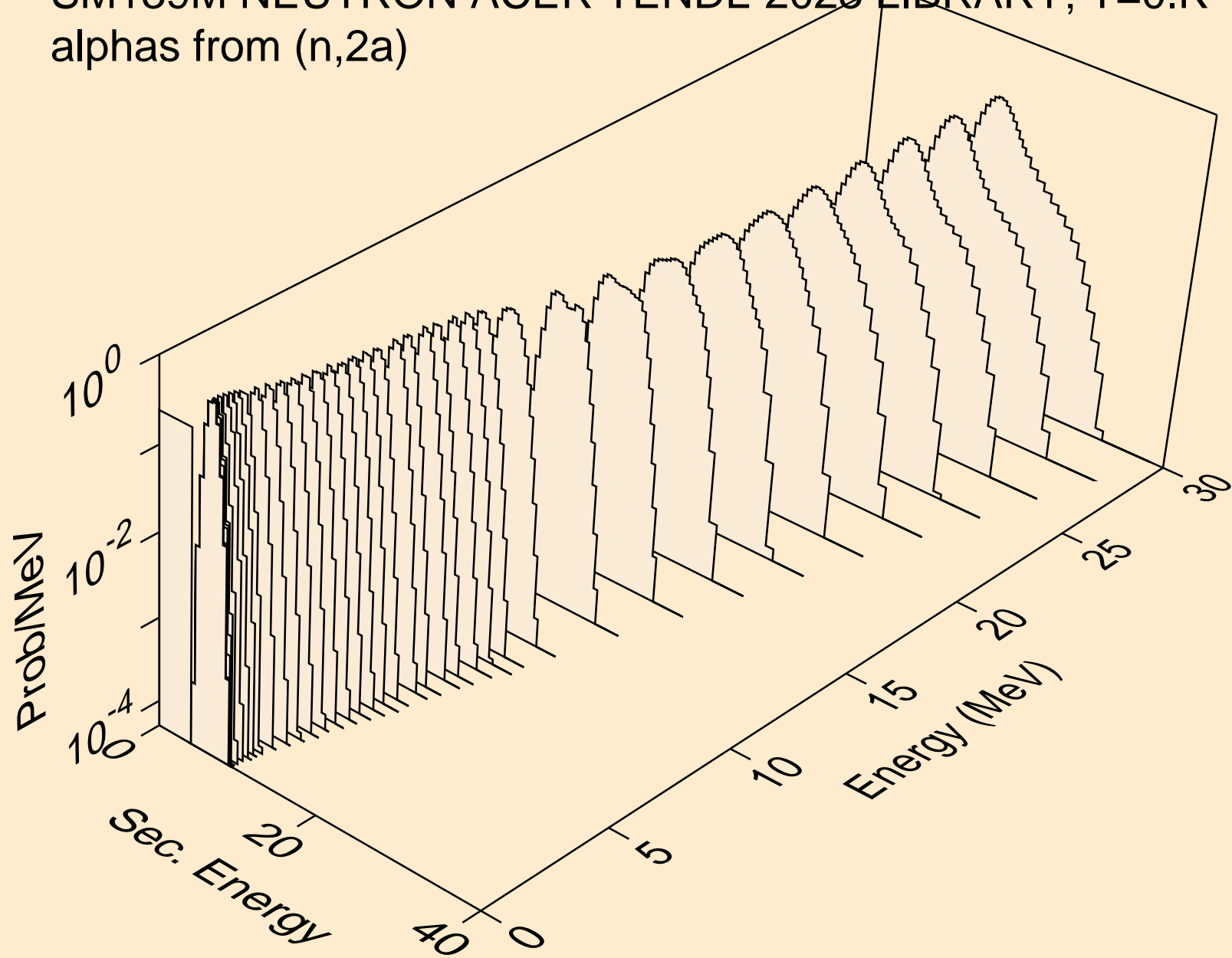
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



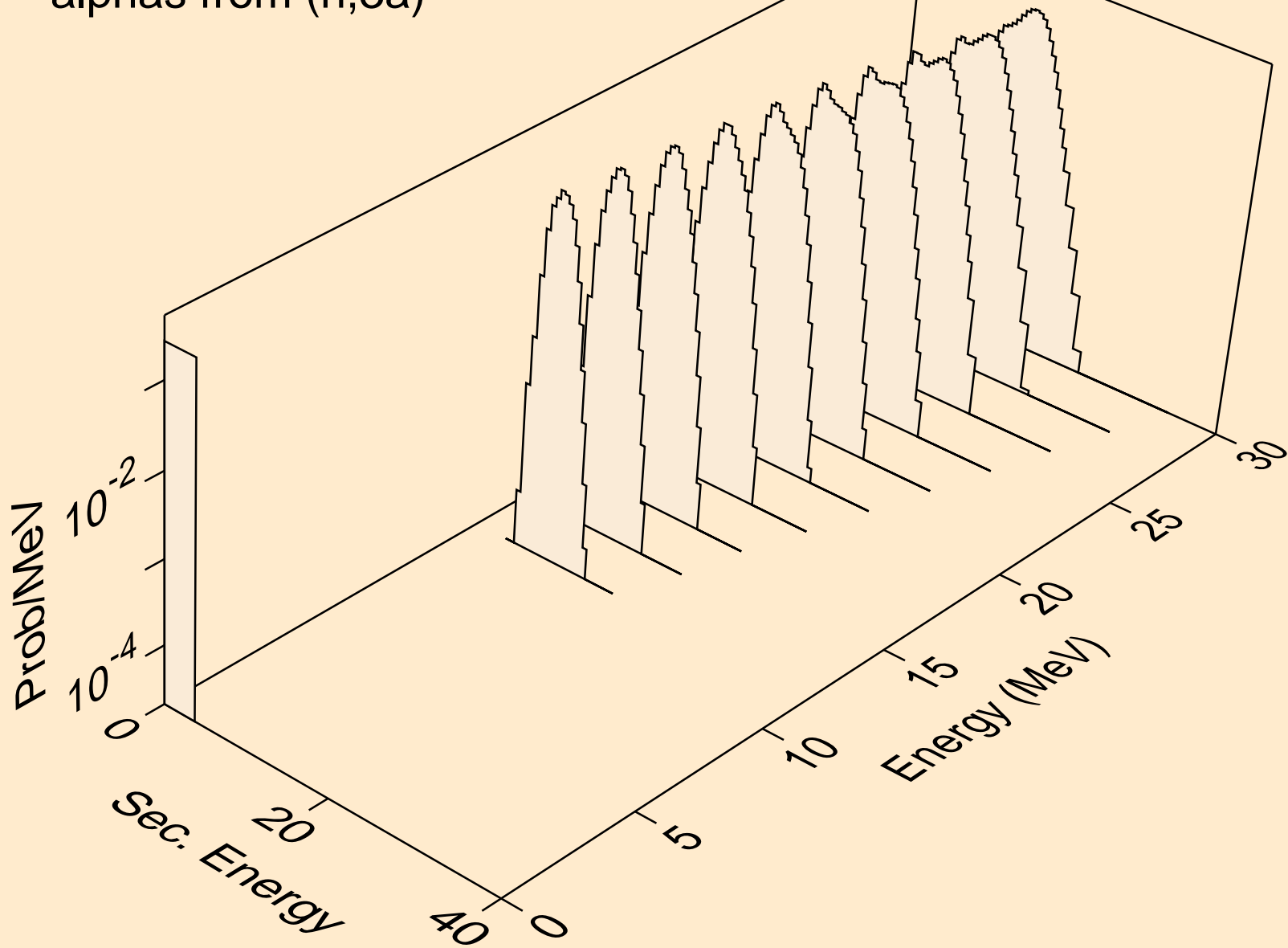
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



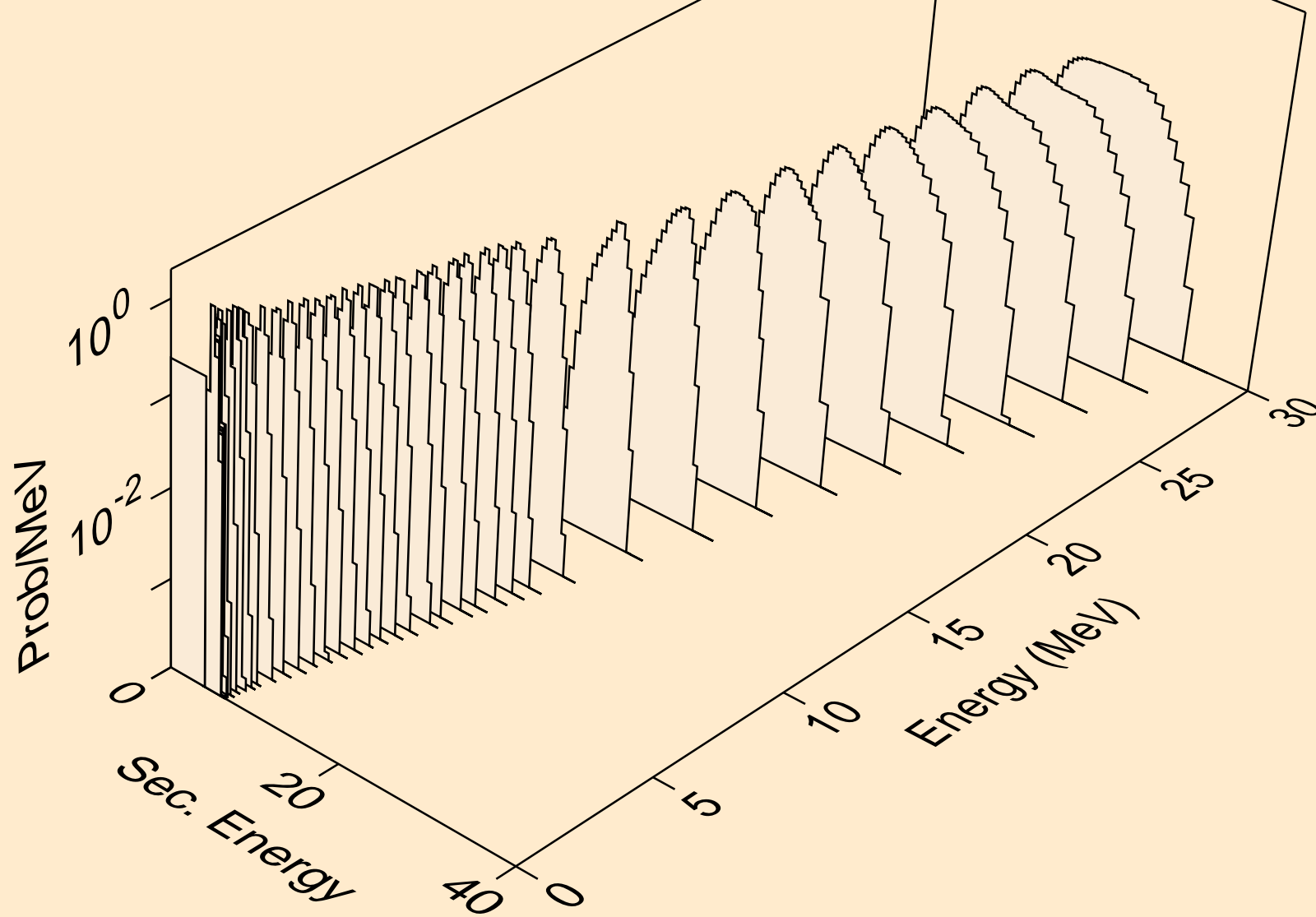
SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3a)



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



SM139M NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

