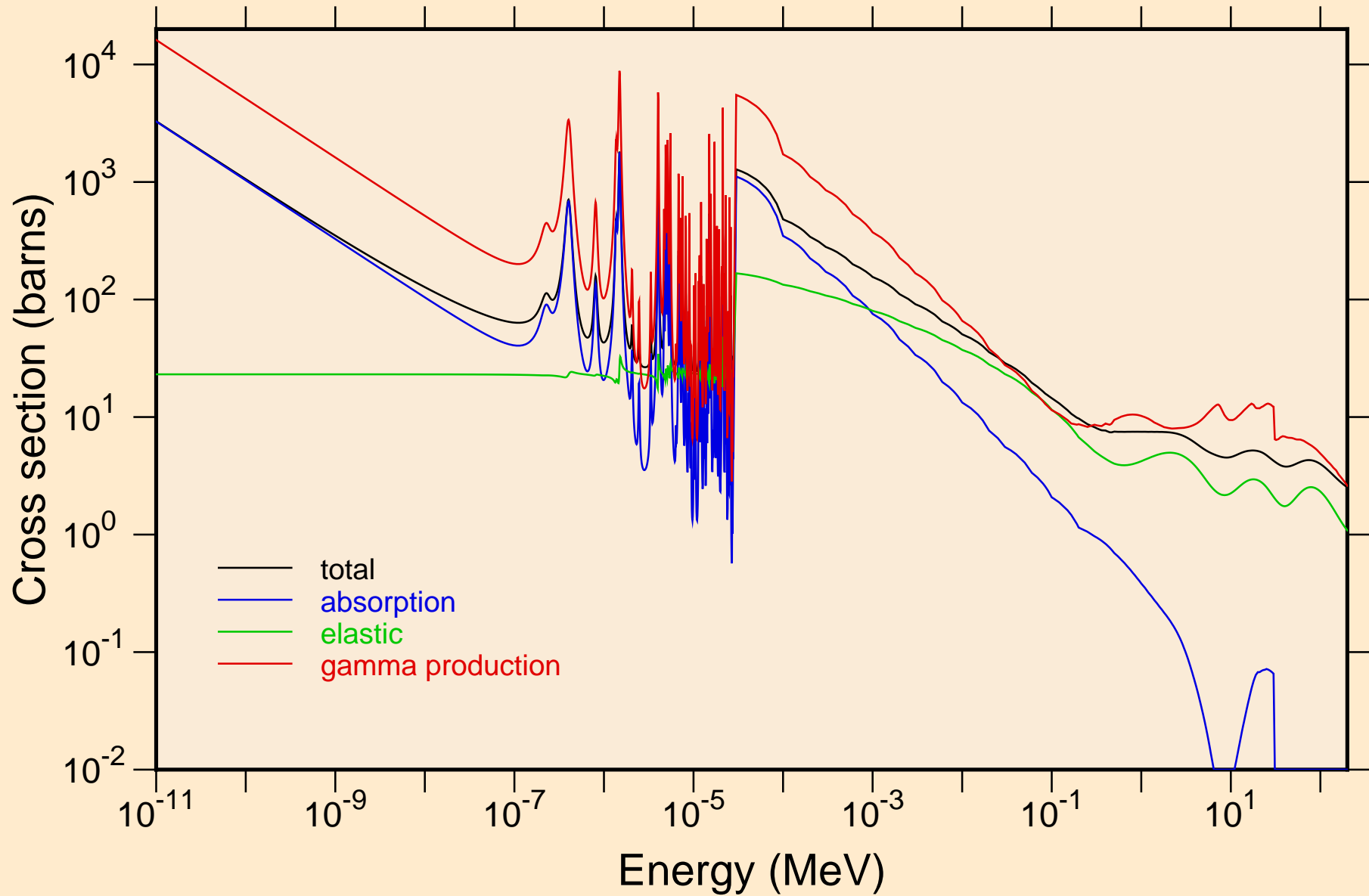
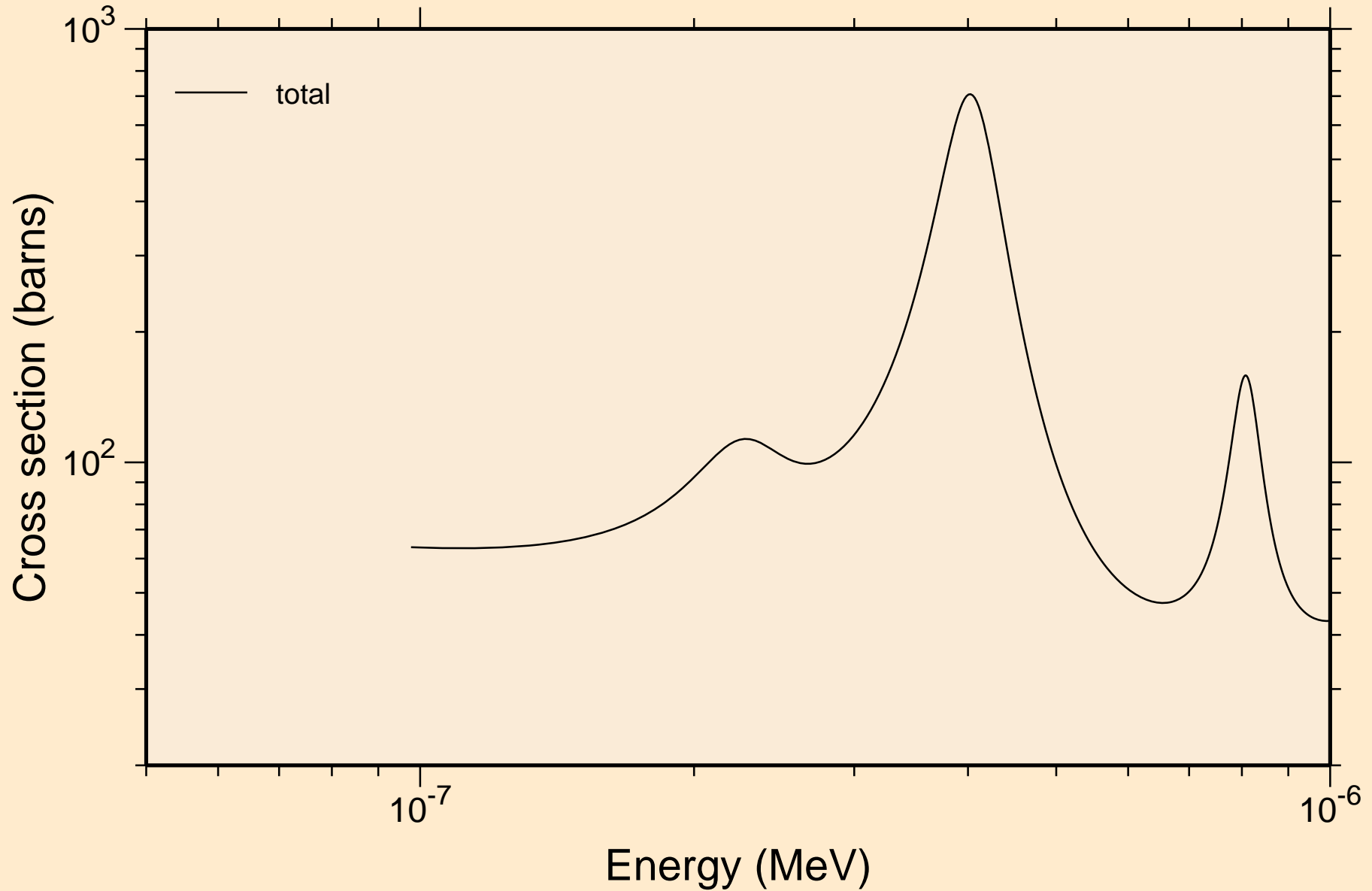


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

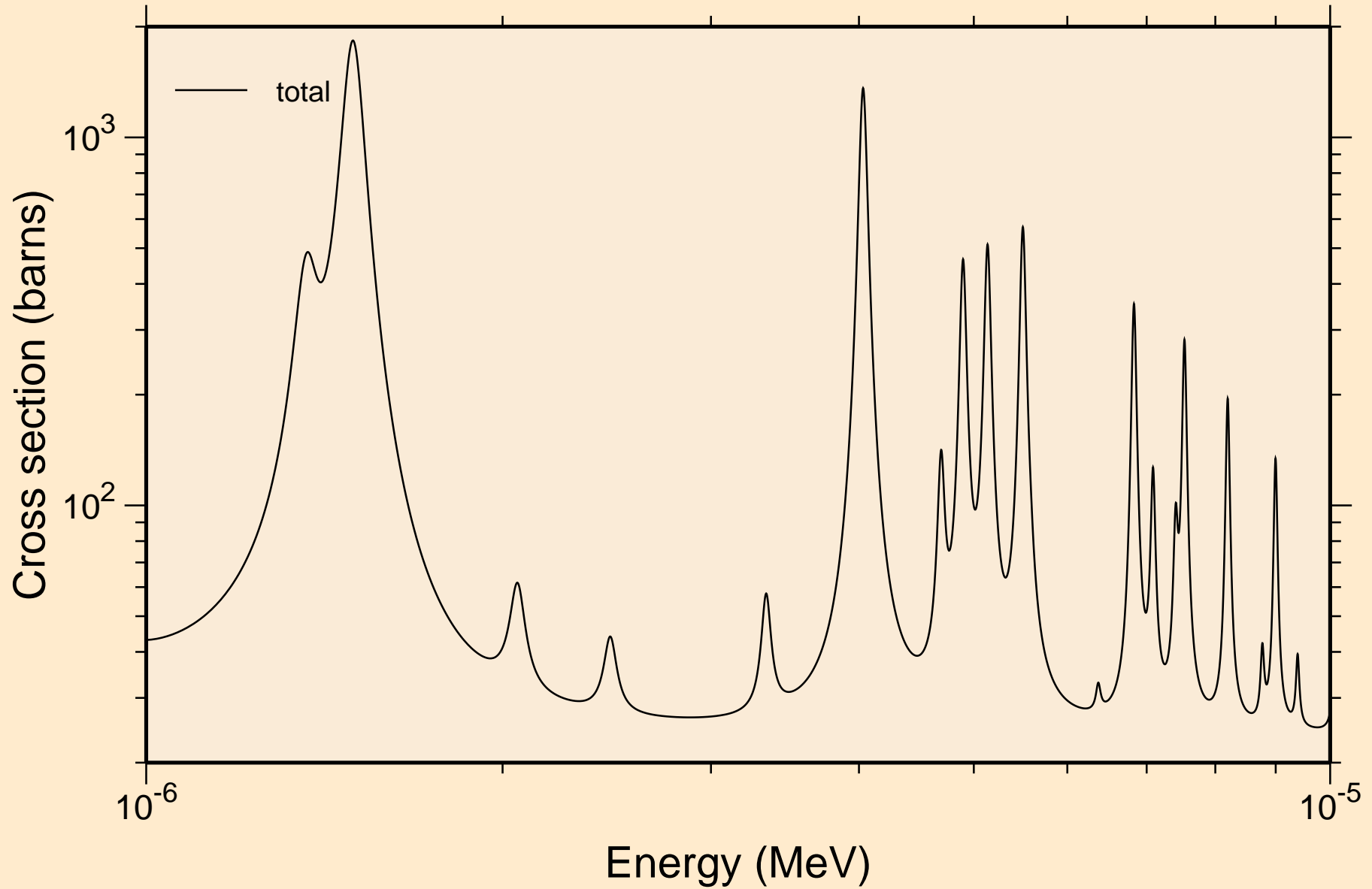
## Principal cross sections



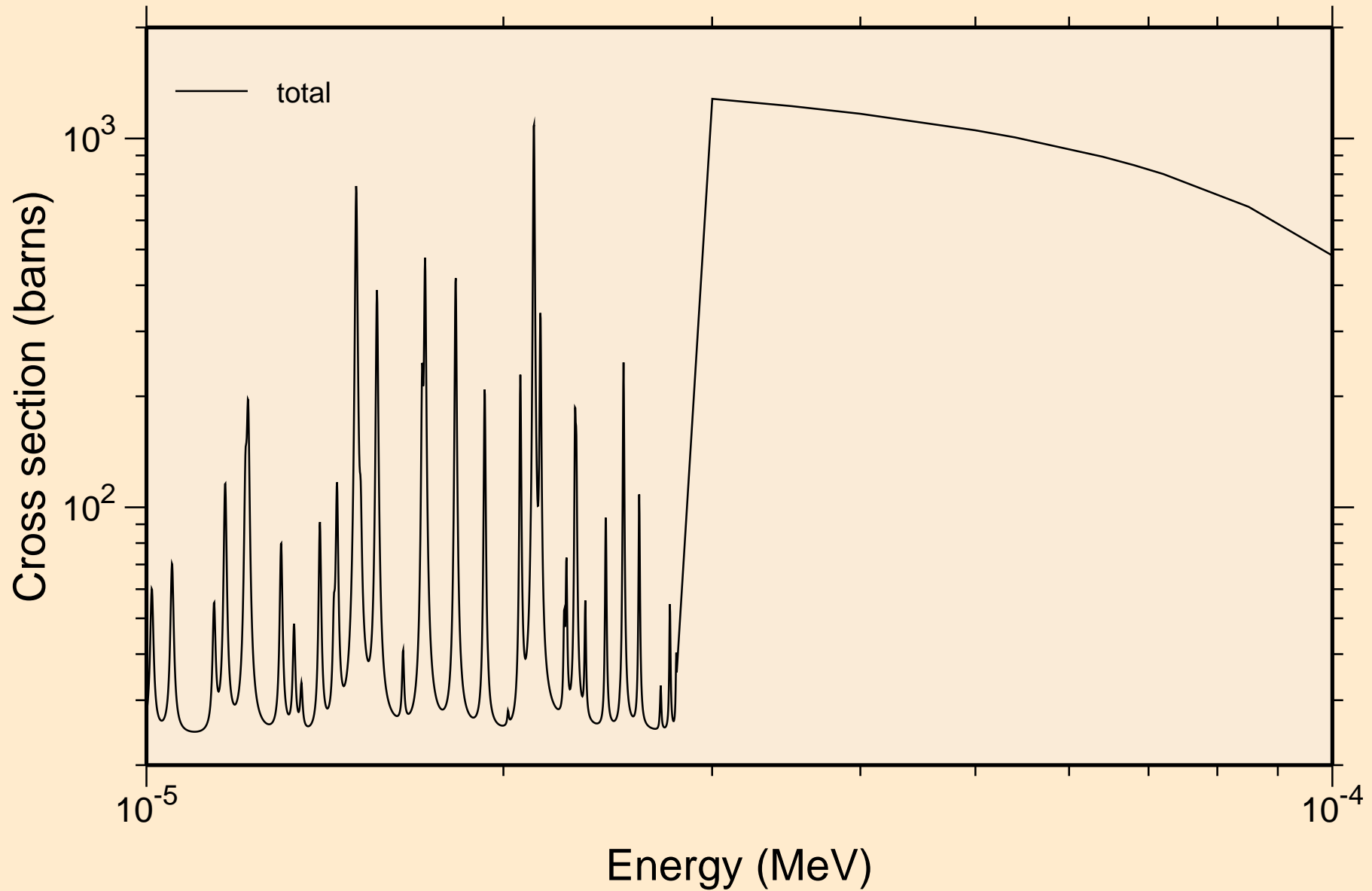
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



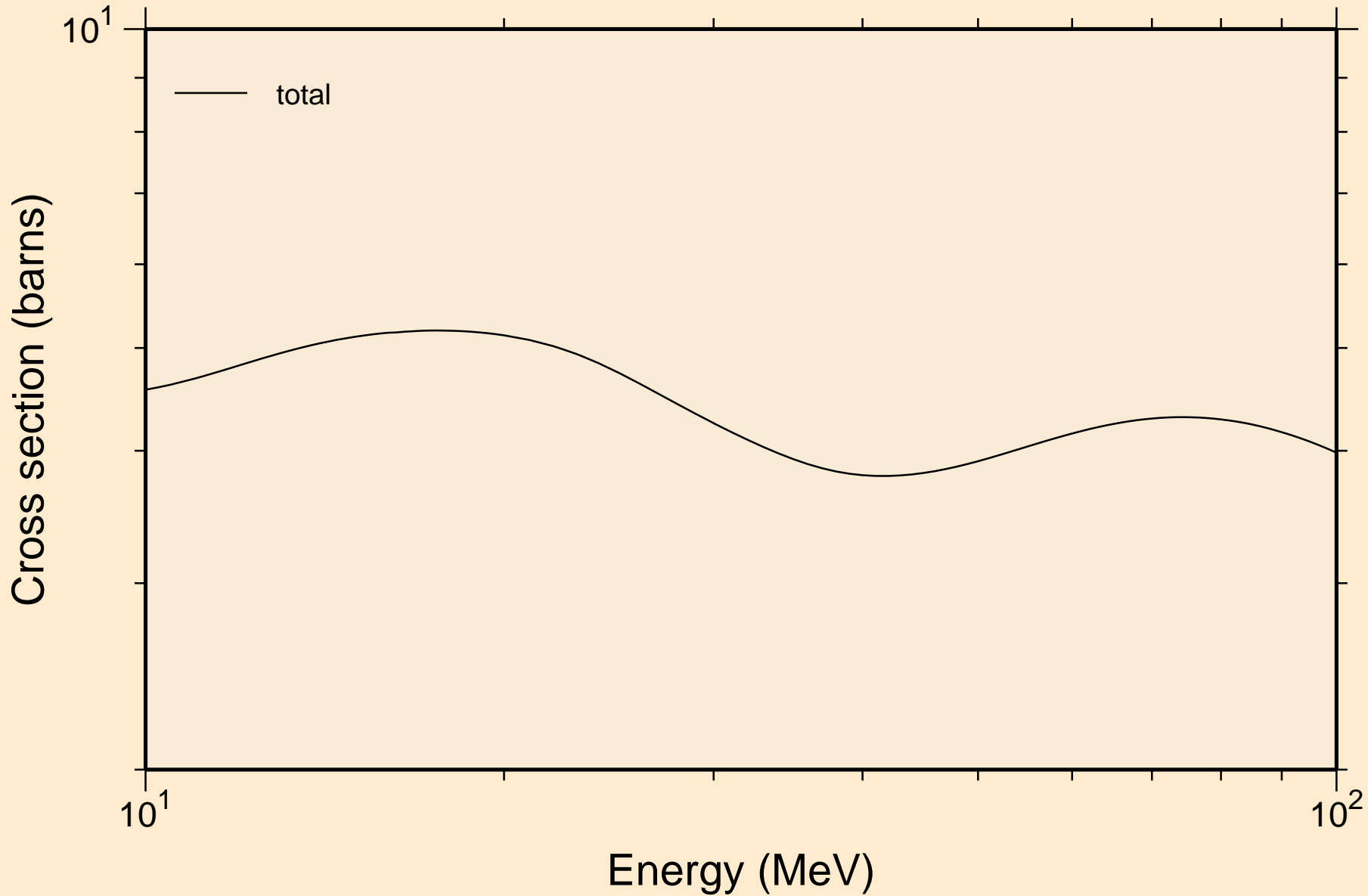
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



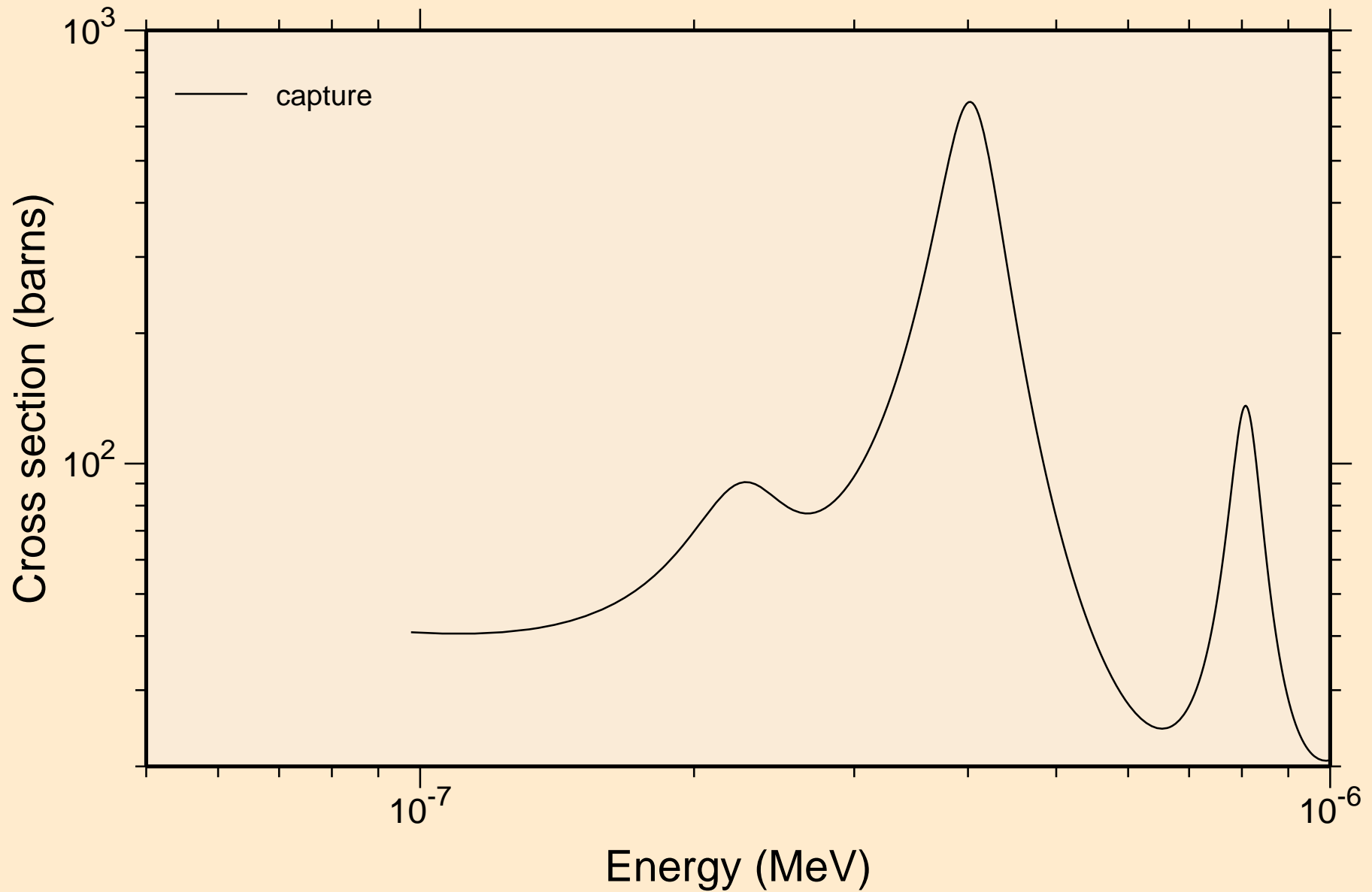
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



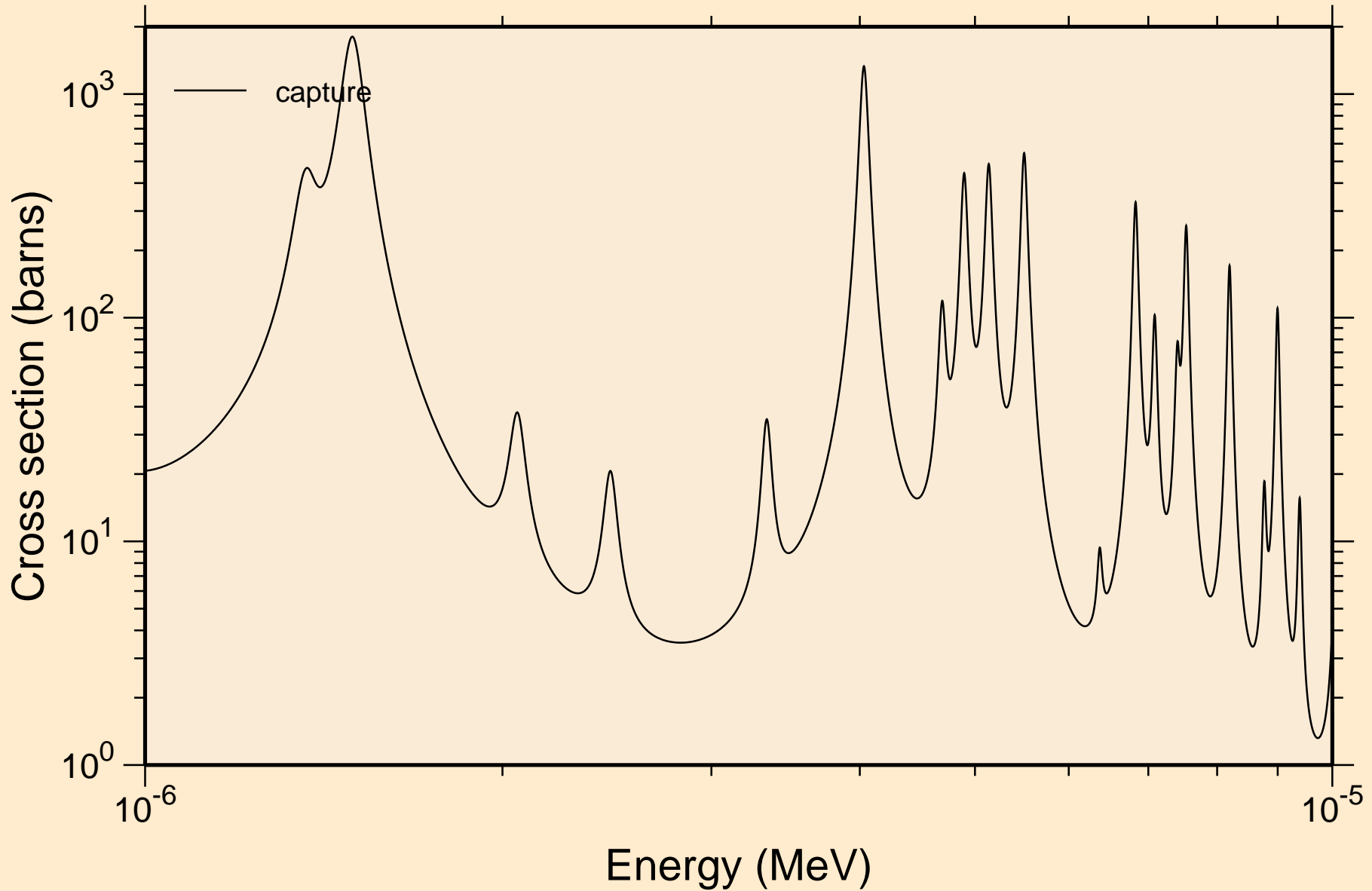
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance total cross section



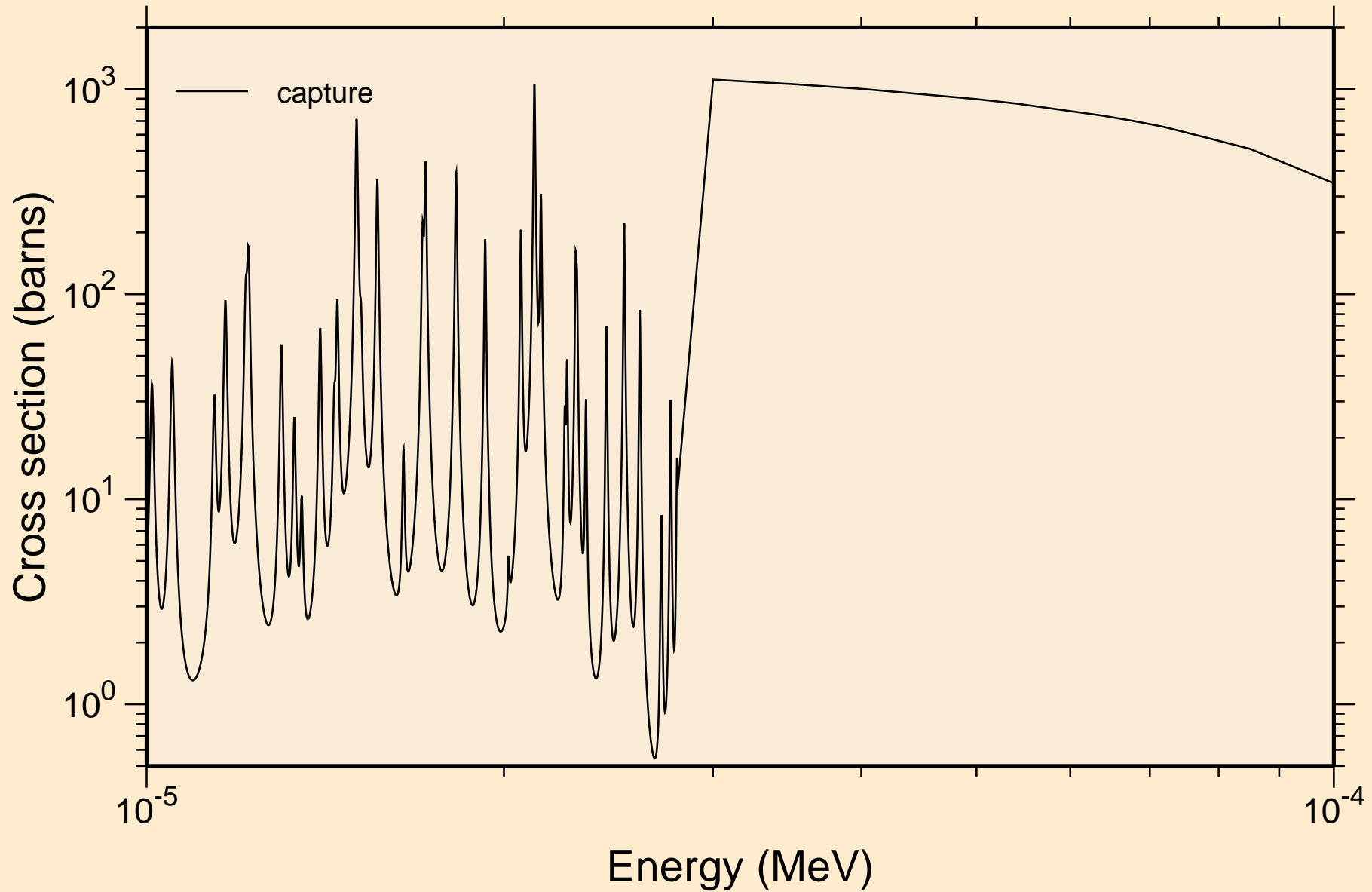
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections

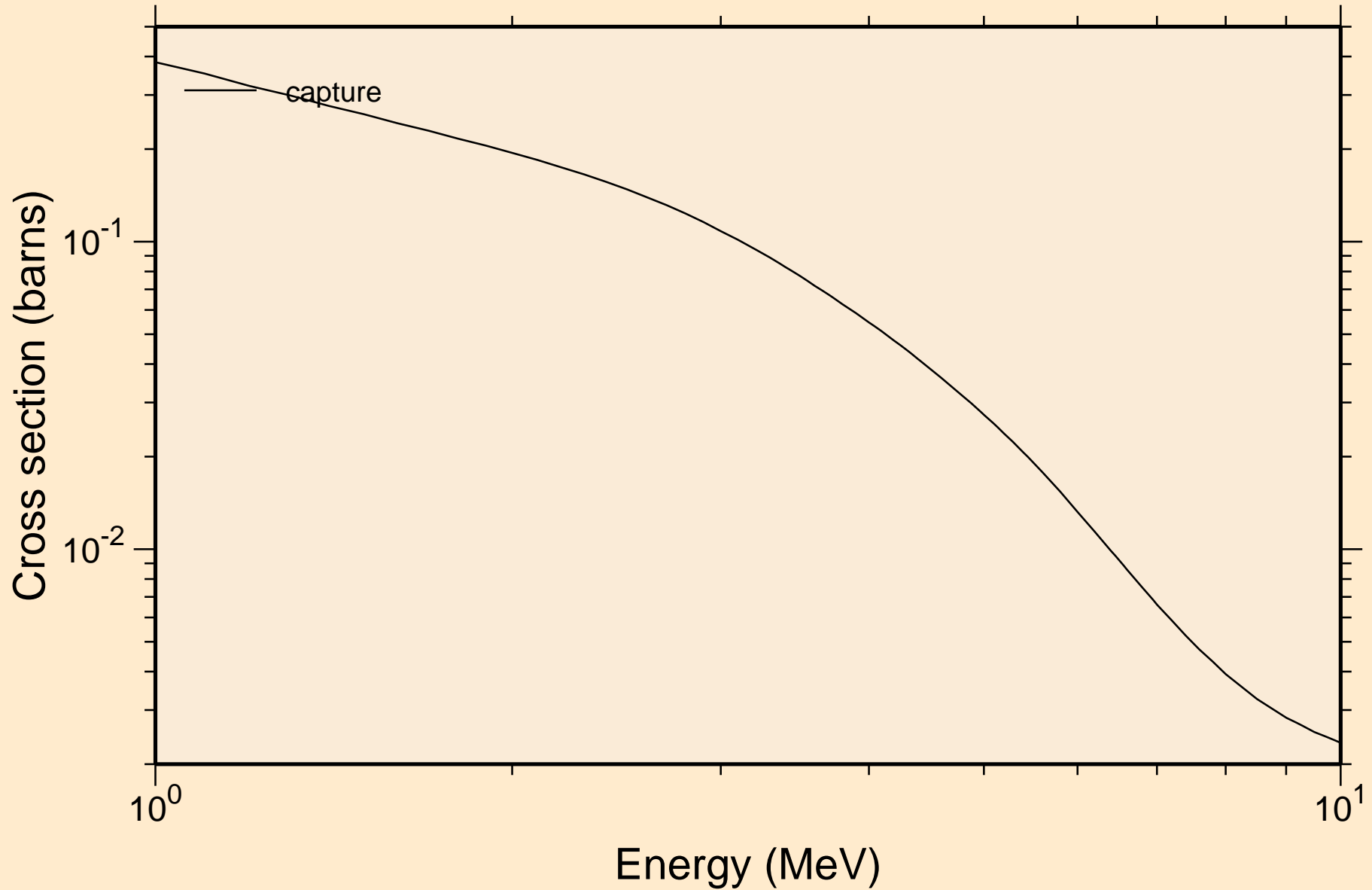


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



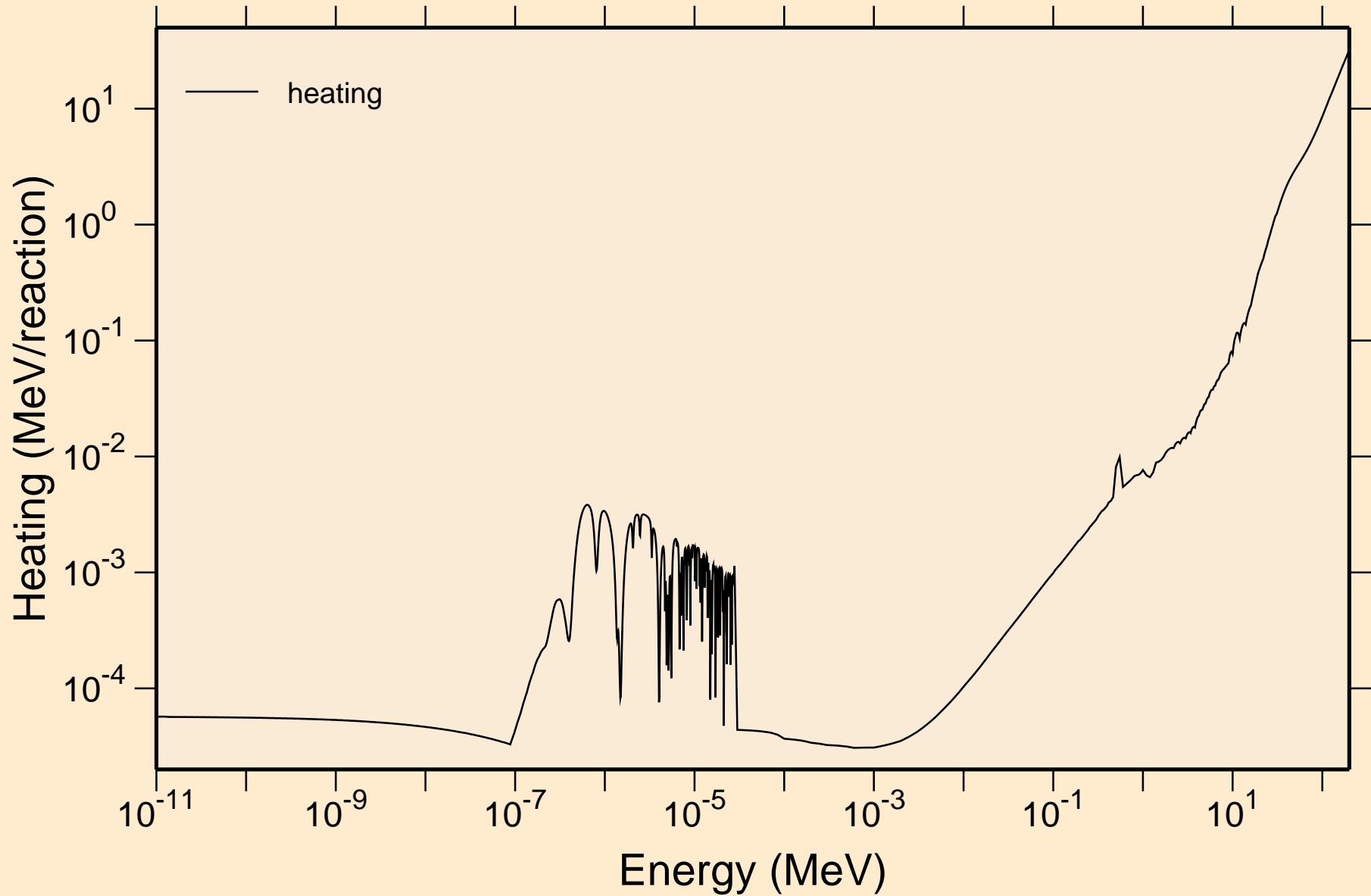


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
resonance absorption cross sections



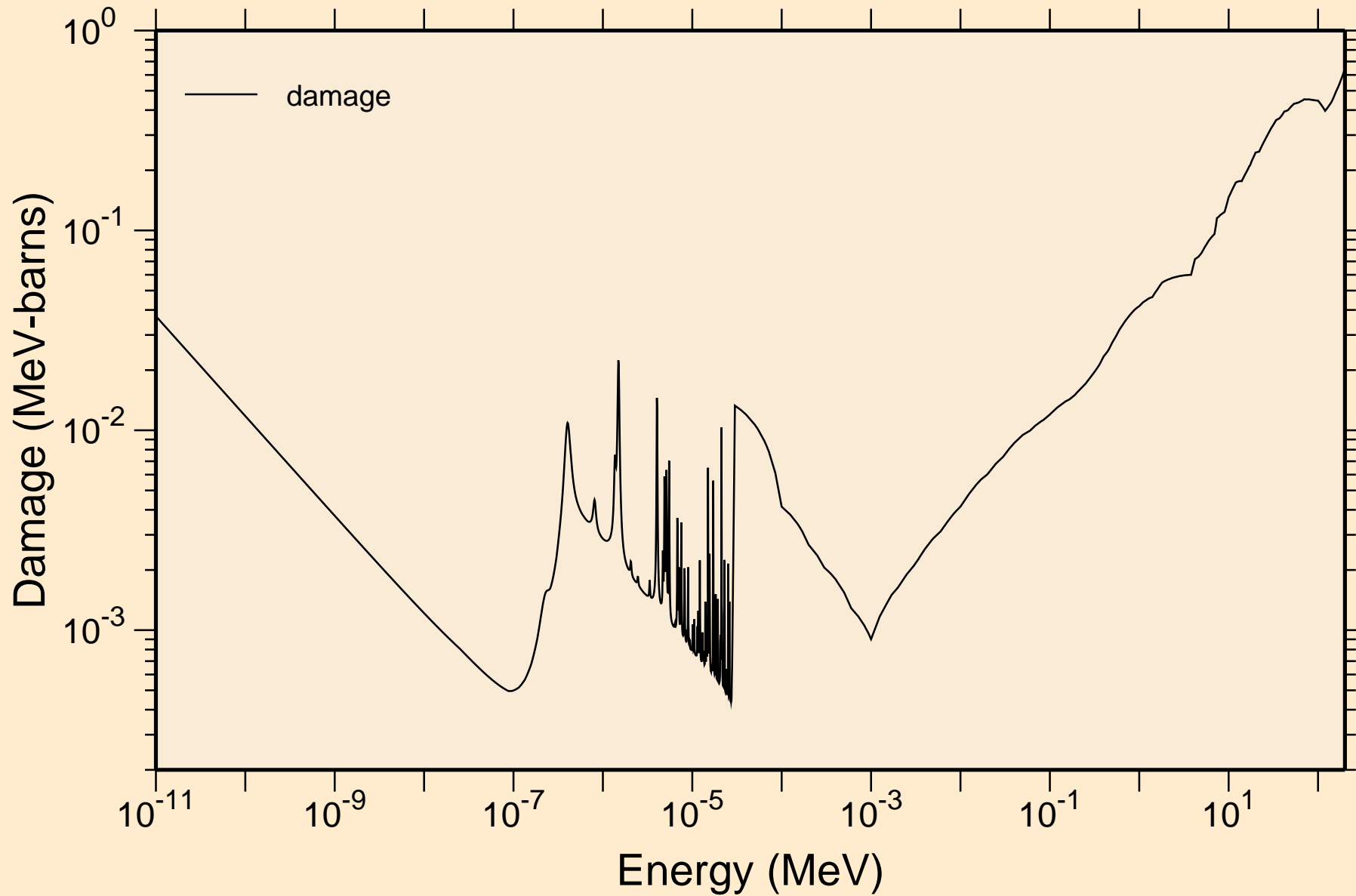
# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating

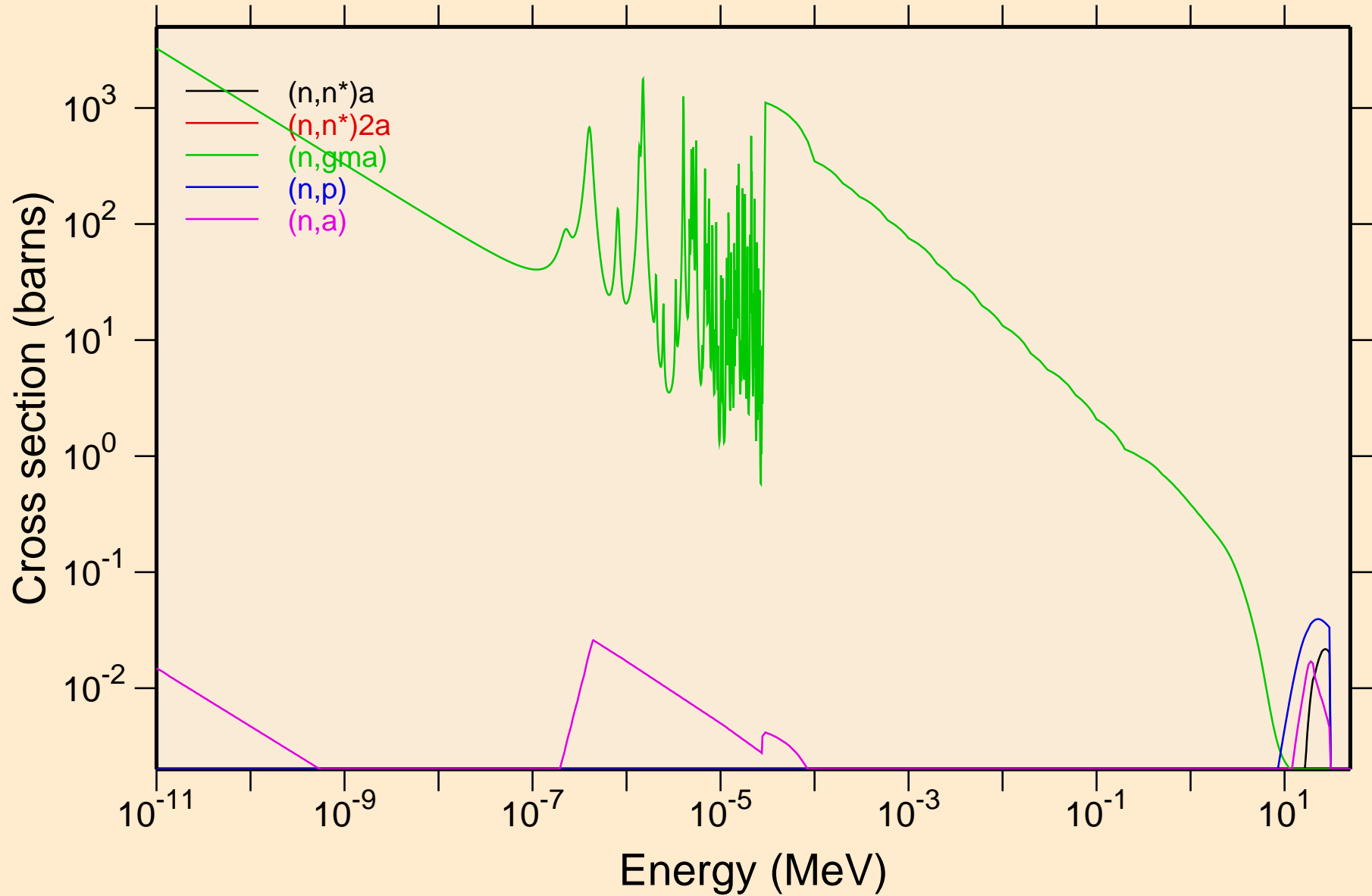


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Damage

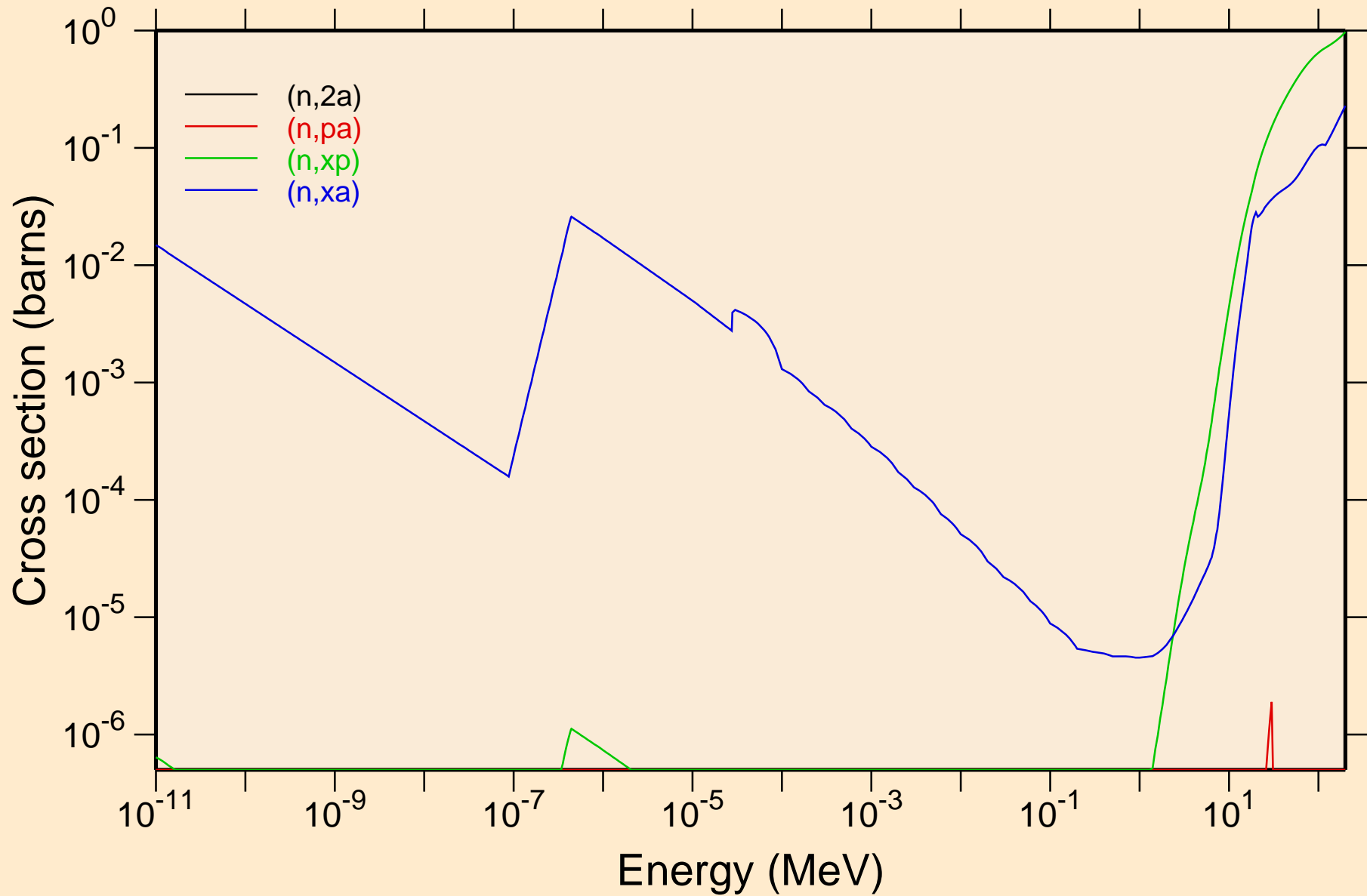


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



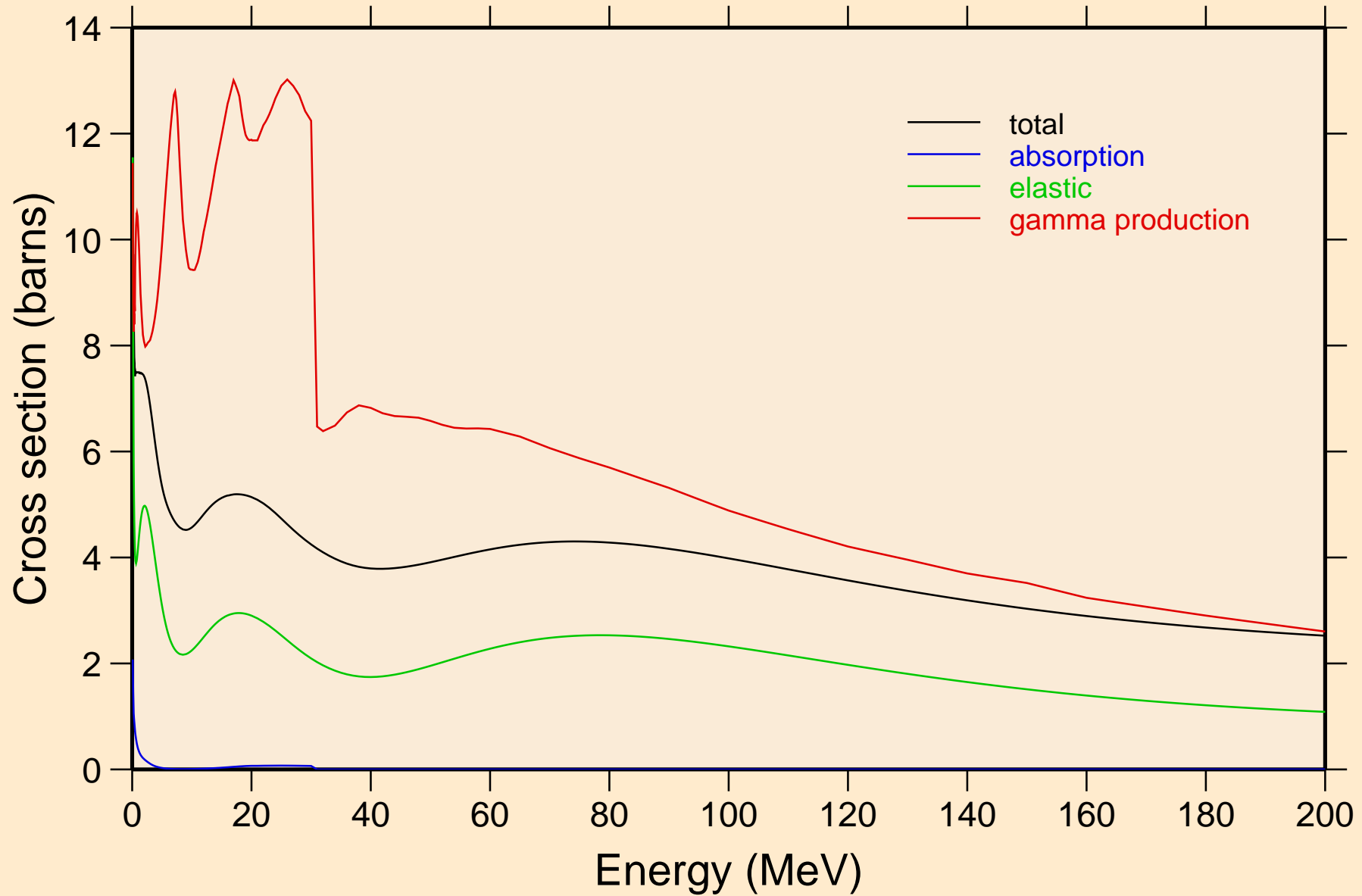
# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Non-threshold reactions



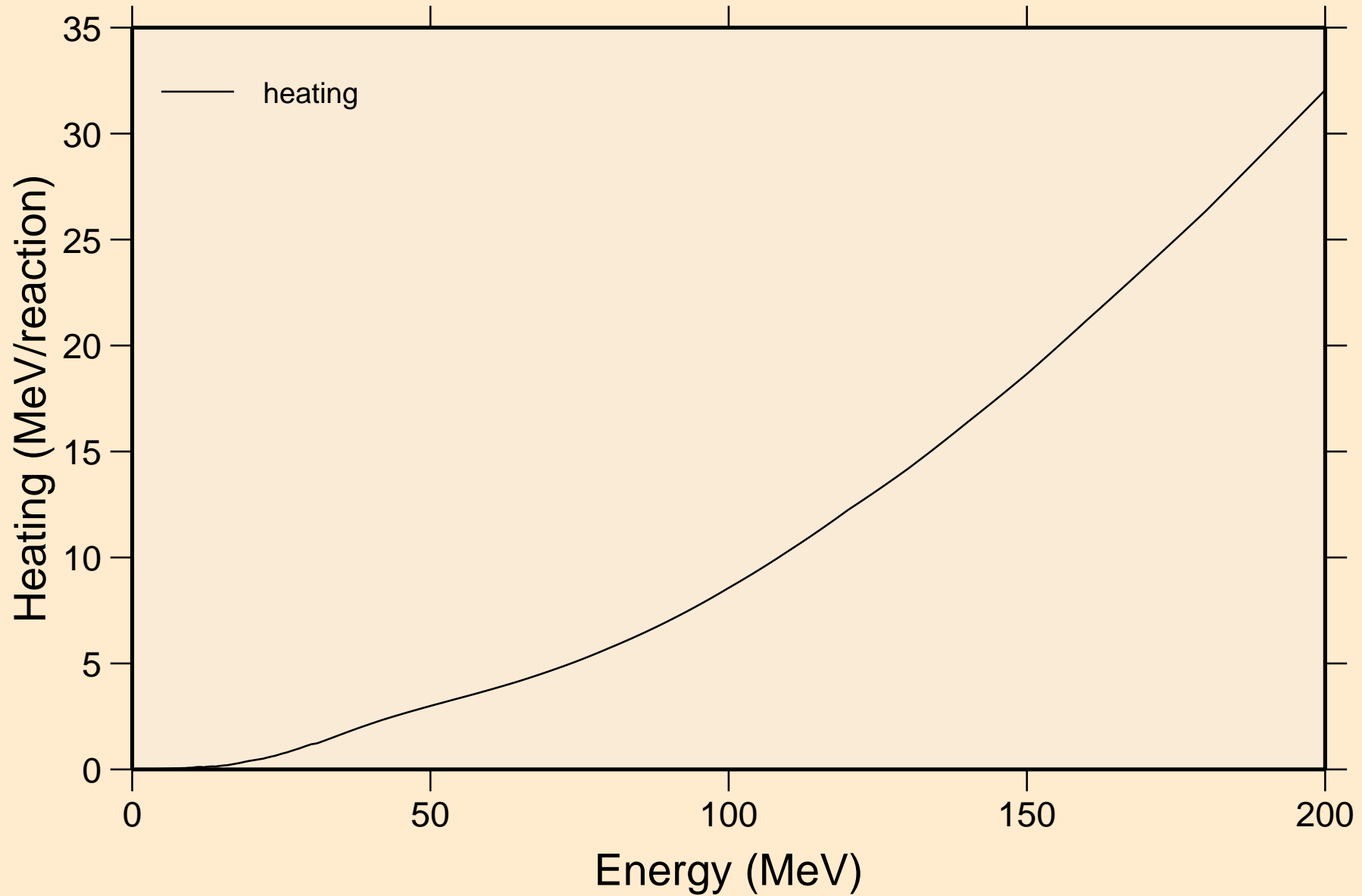
# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Principal cross sections



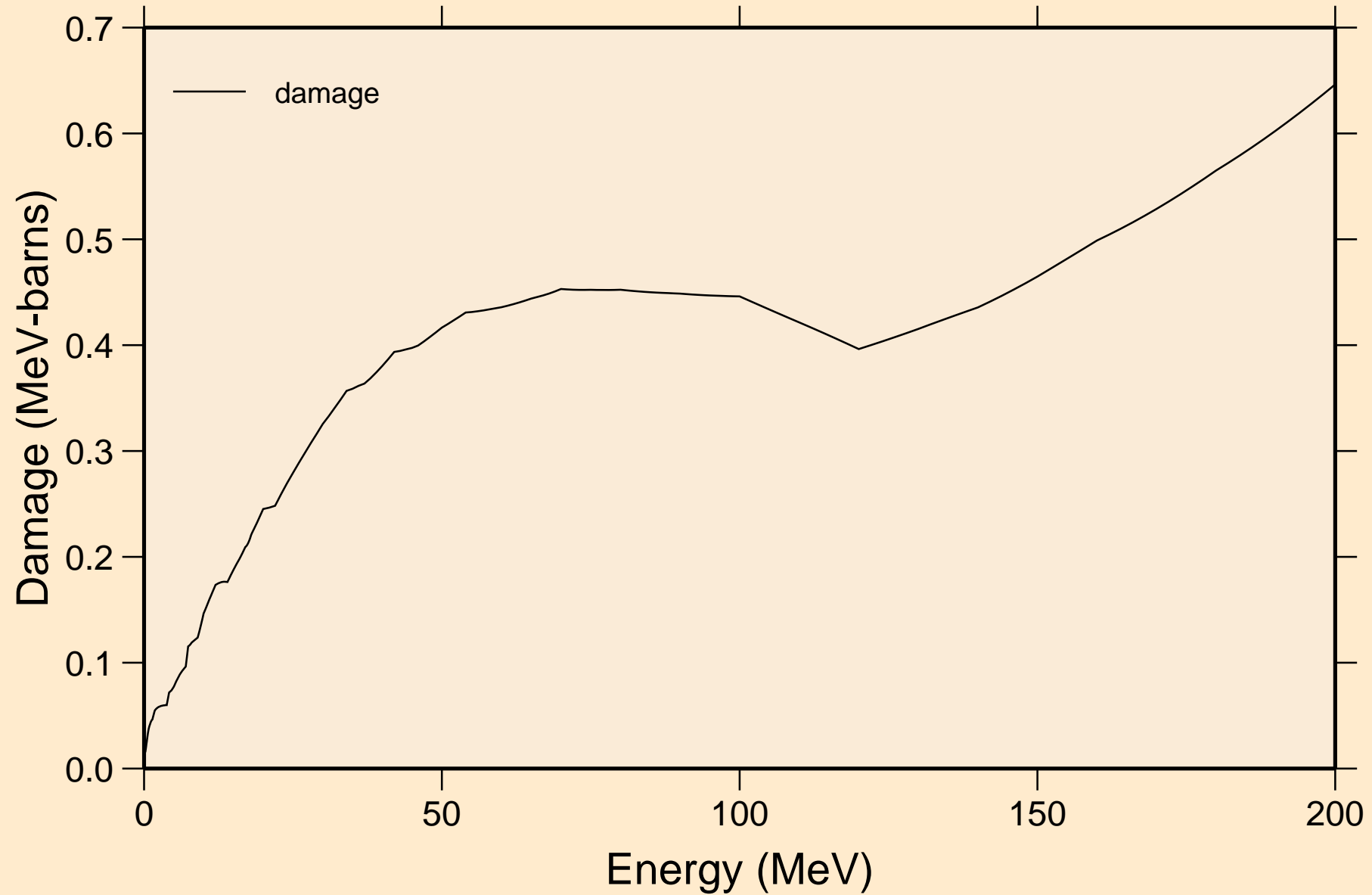
# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Heating



# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

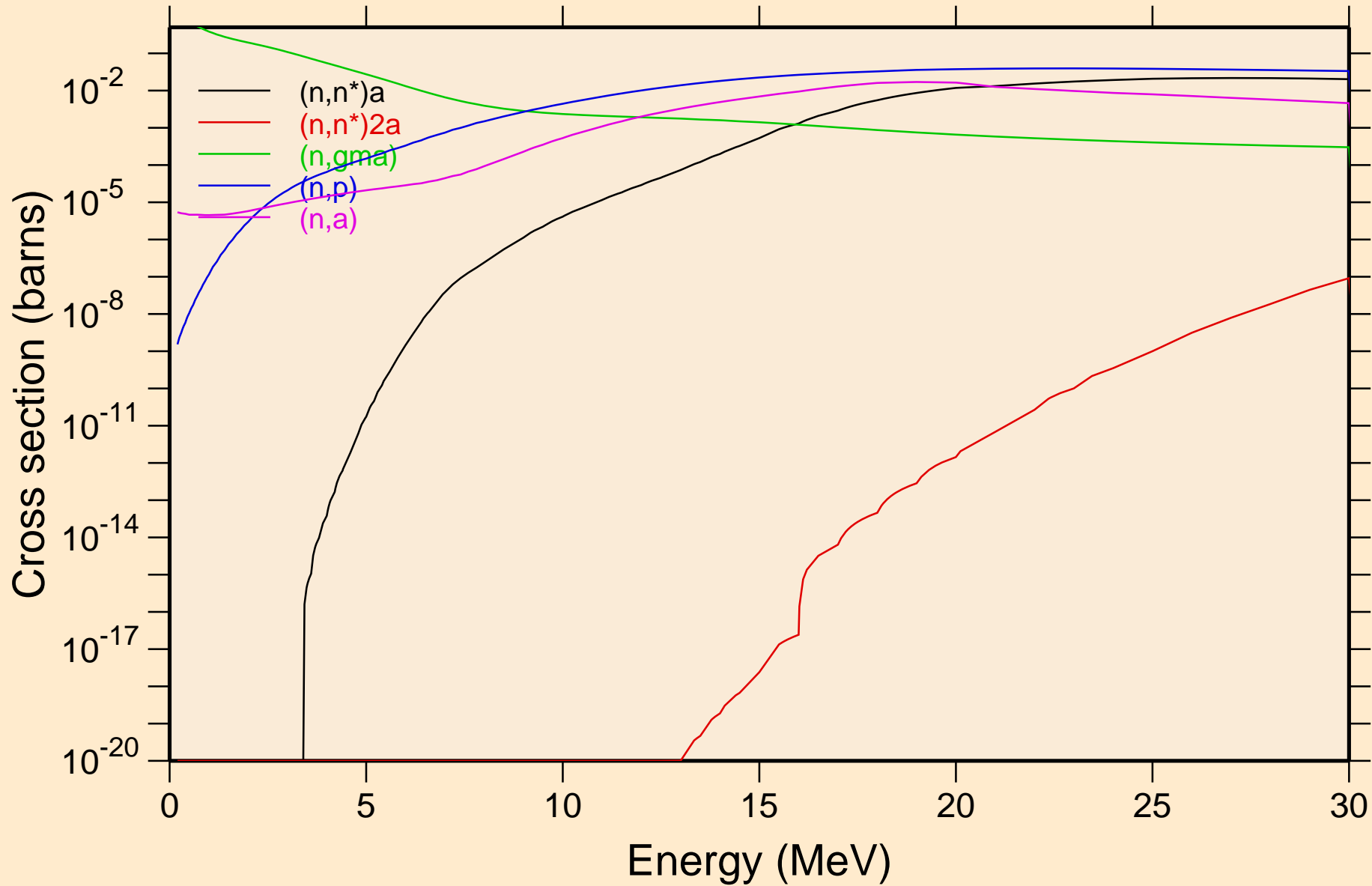
## Damage



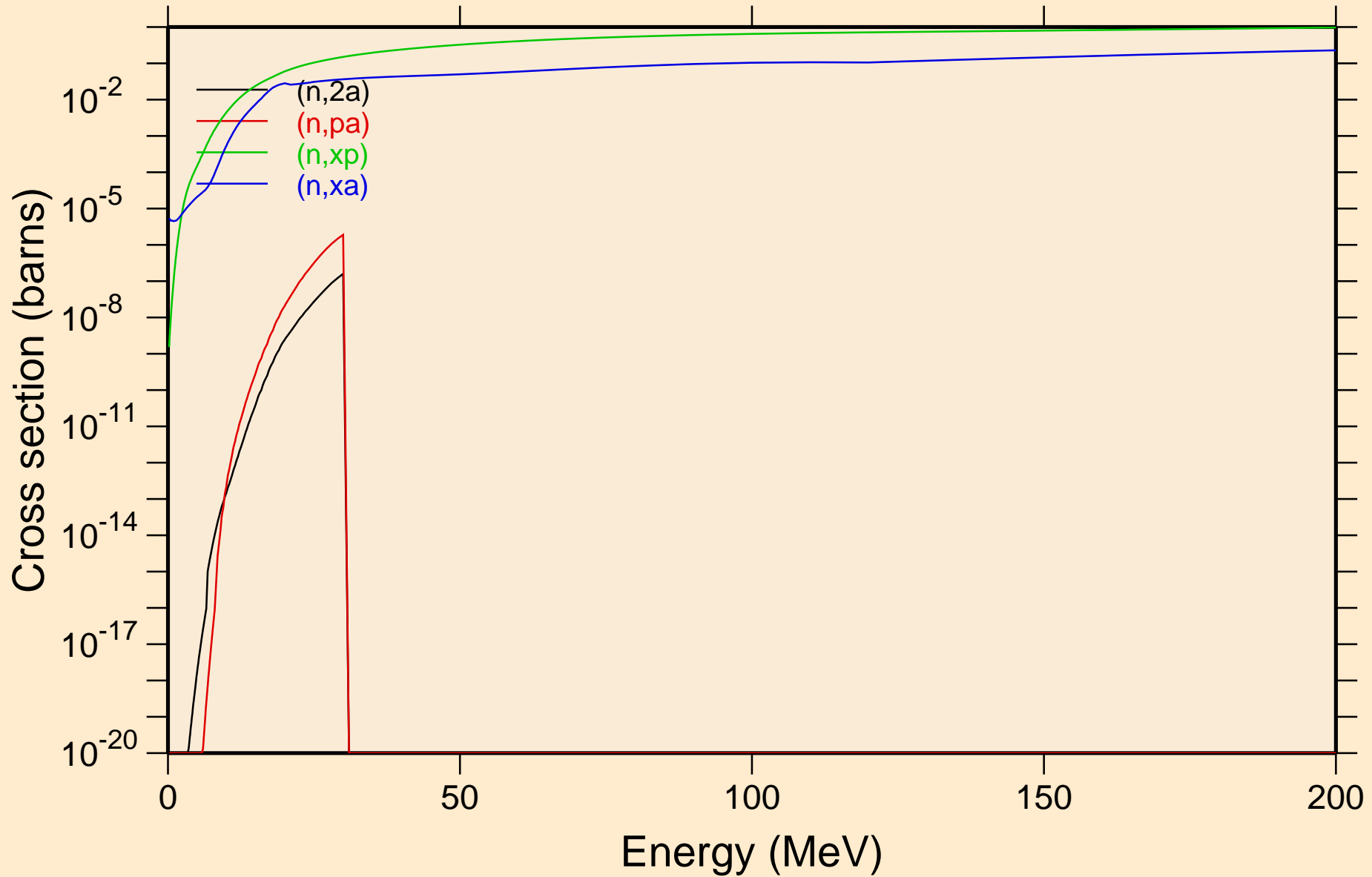


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

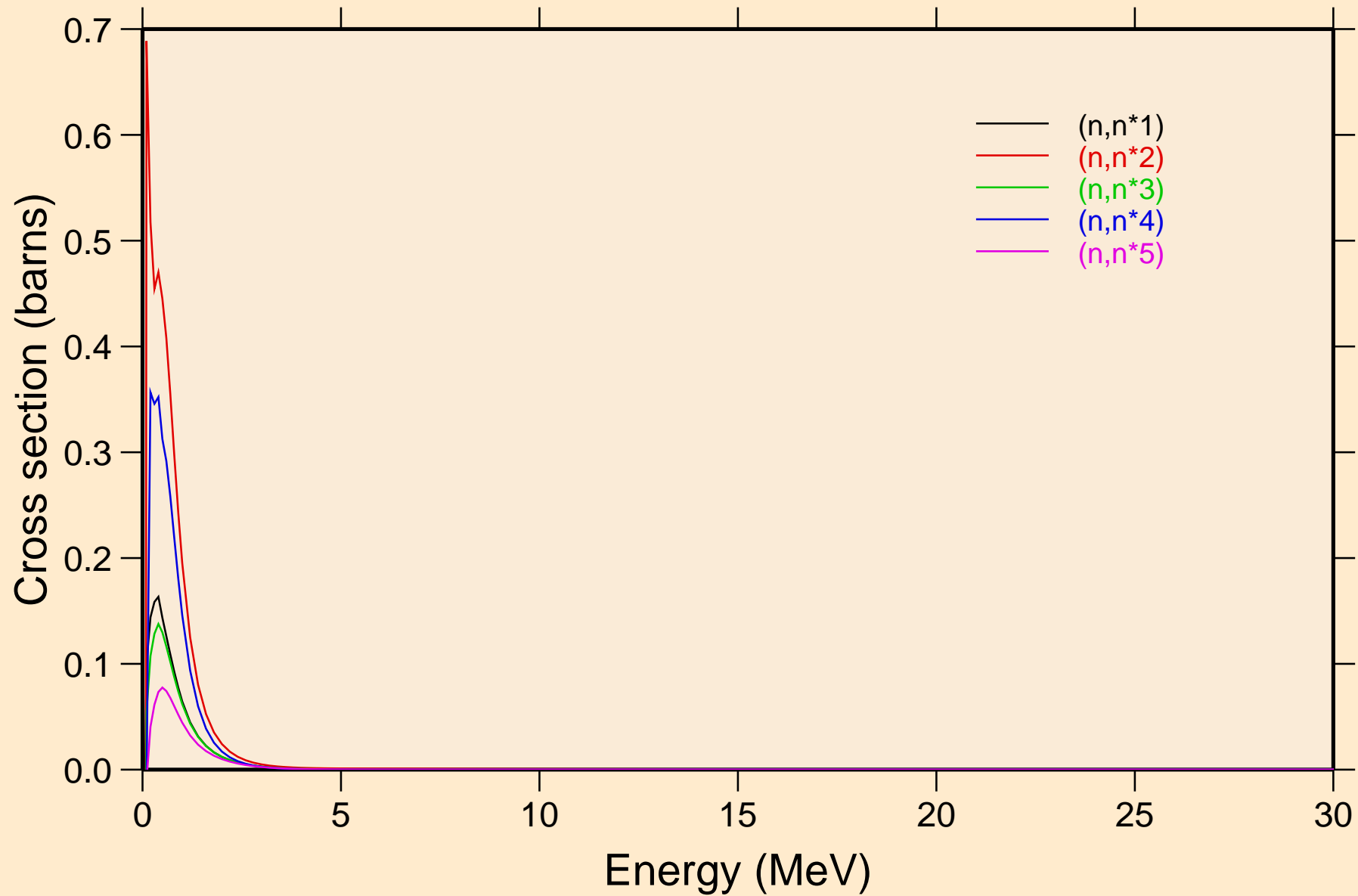
## Non-threshold reactions



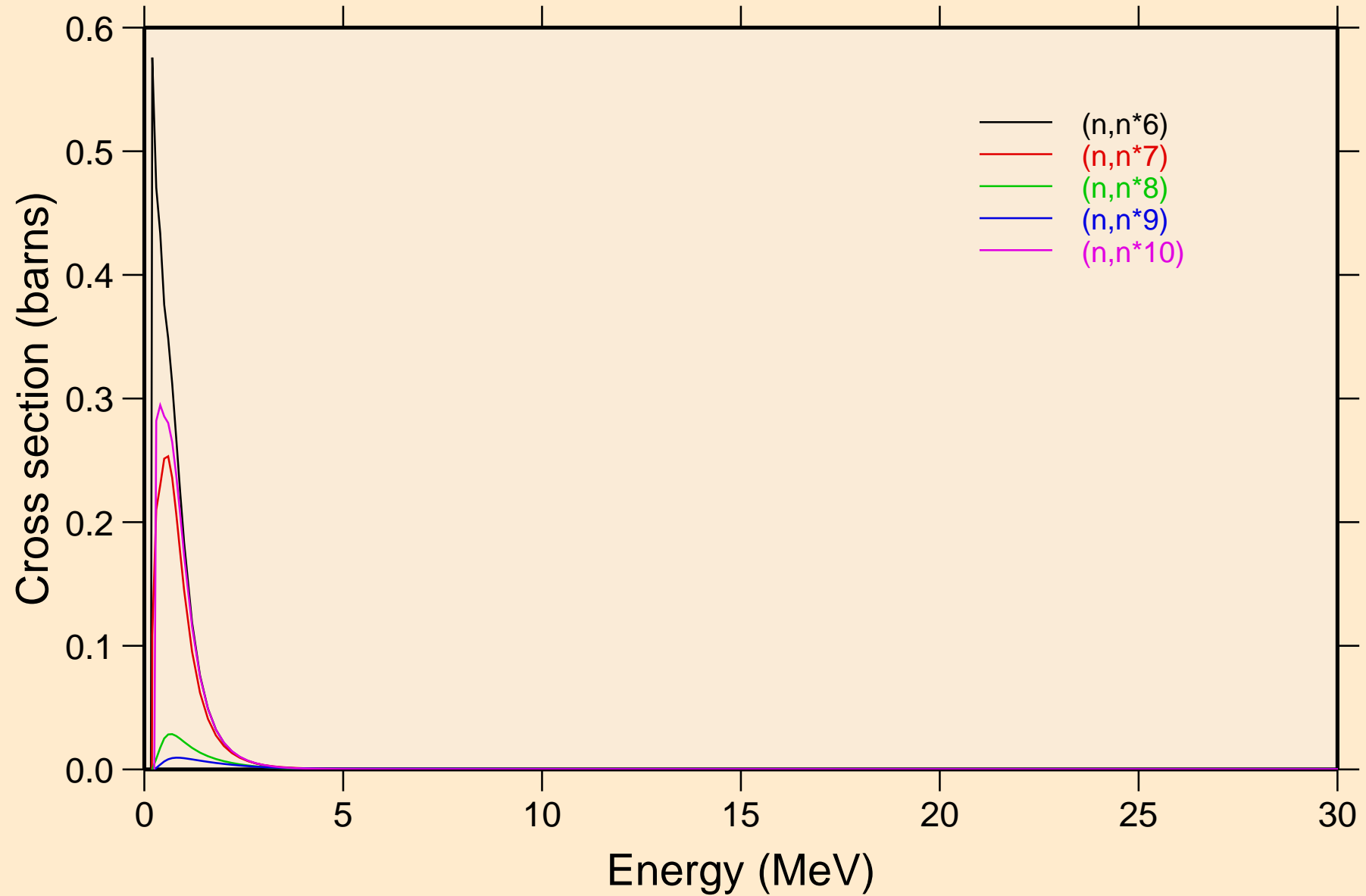
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Non-threshold reactions



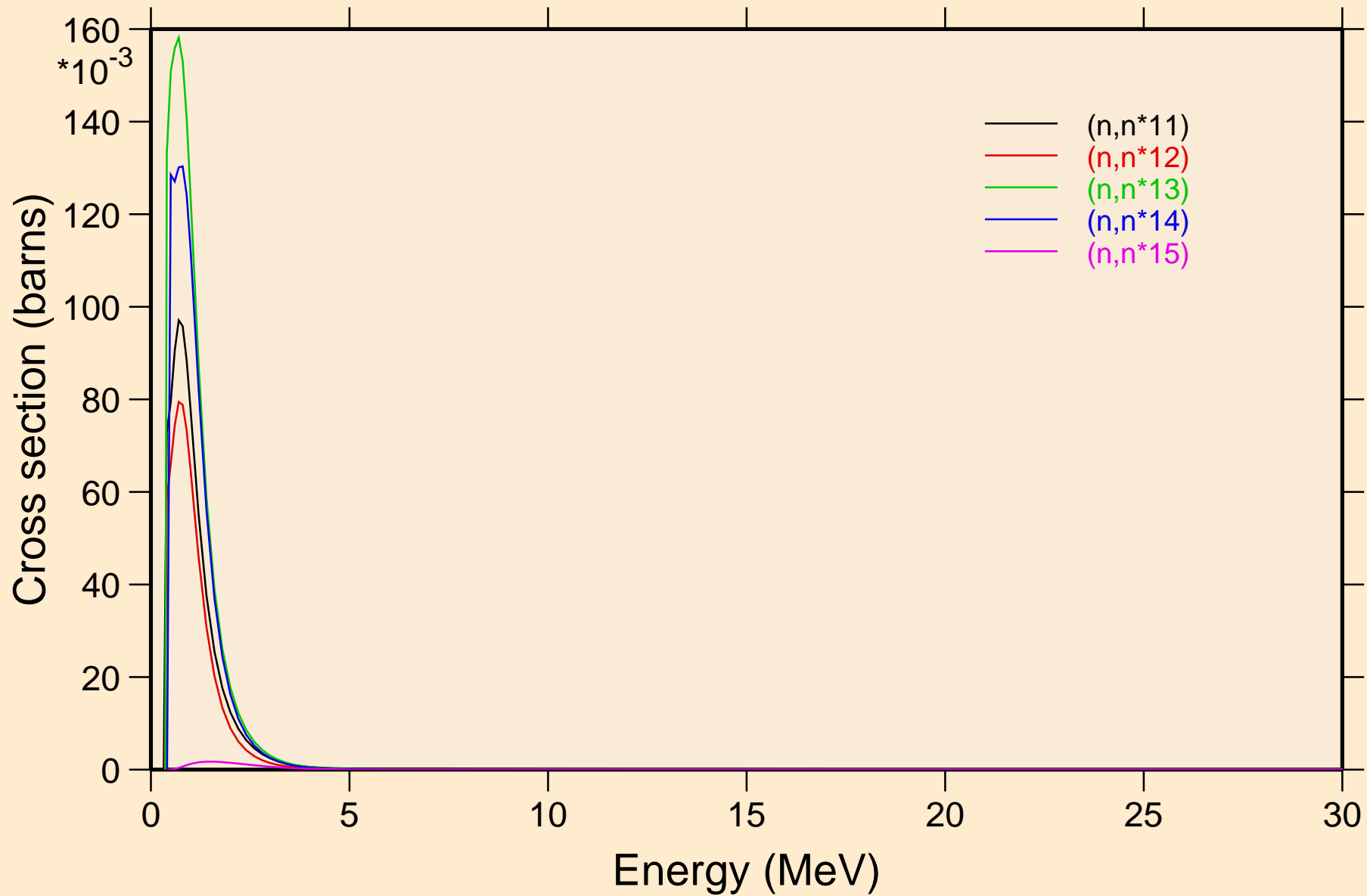
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



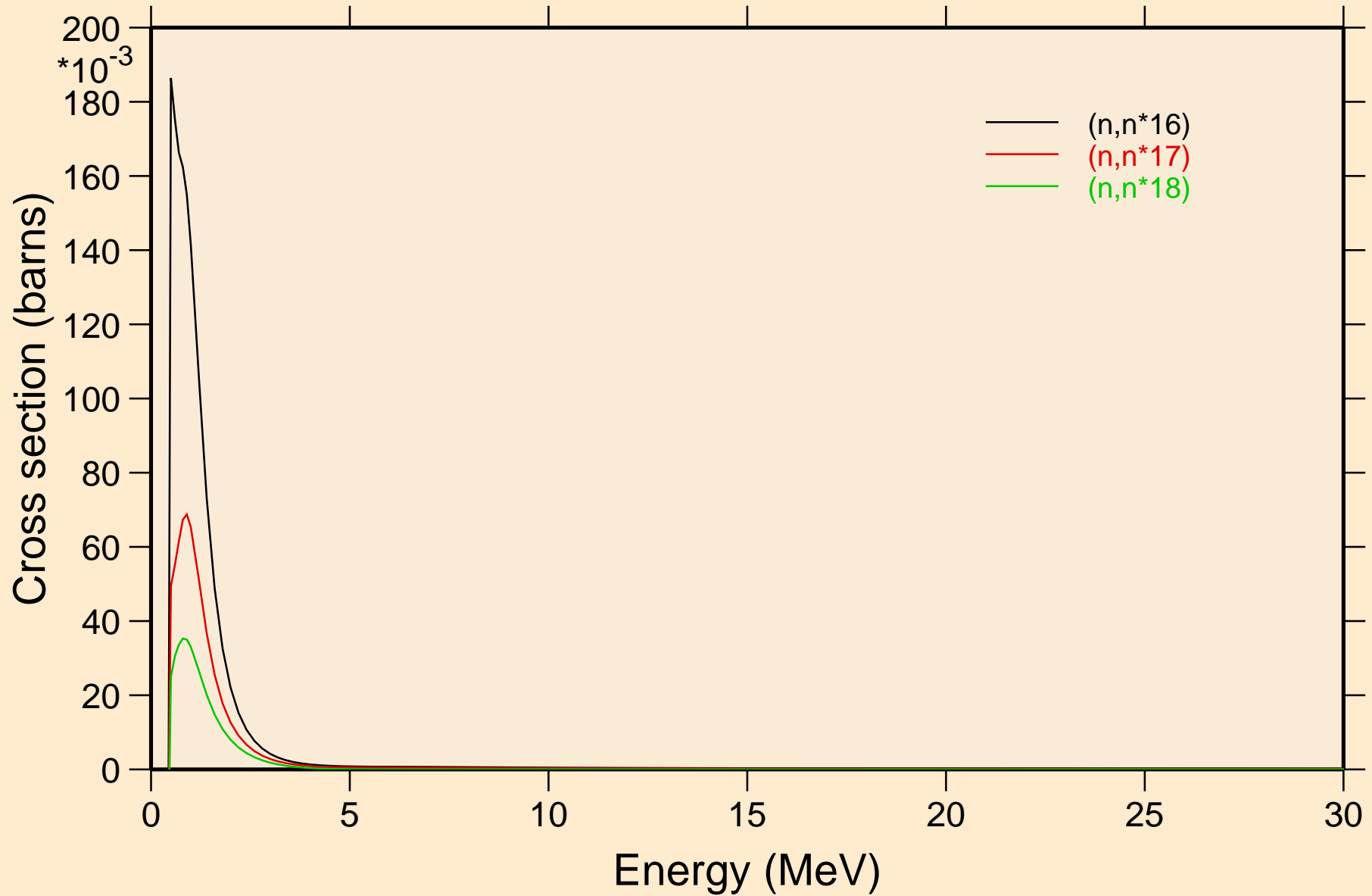
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



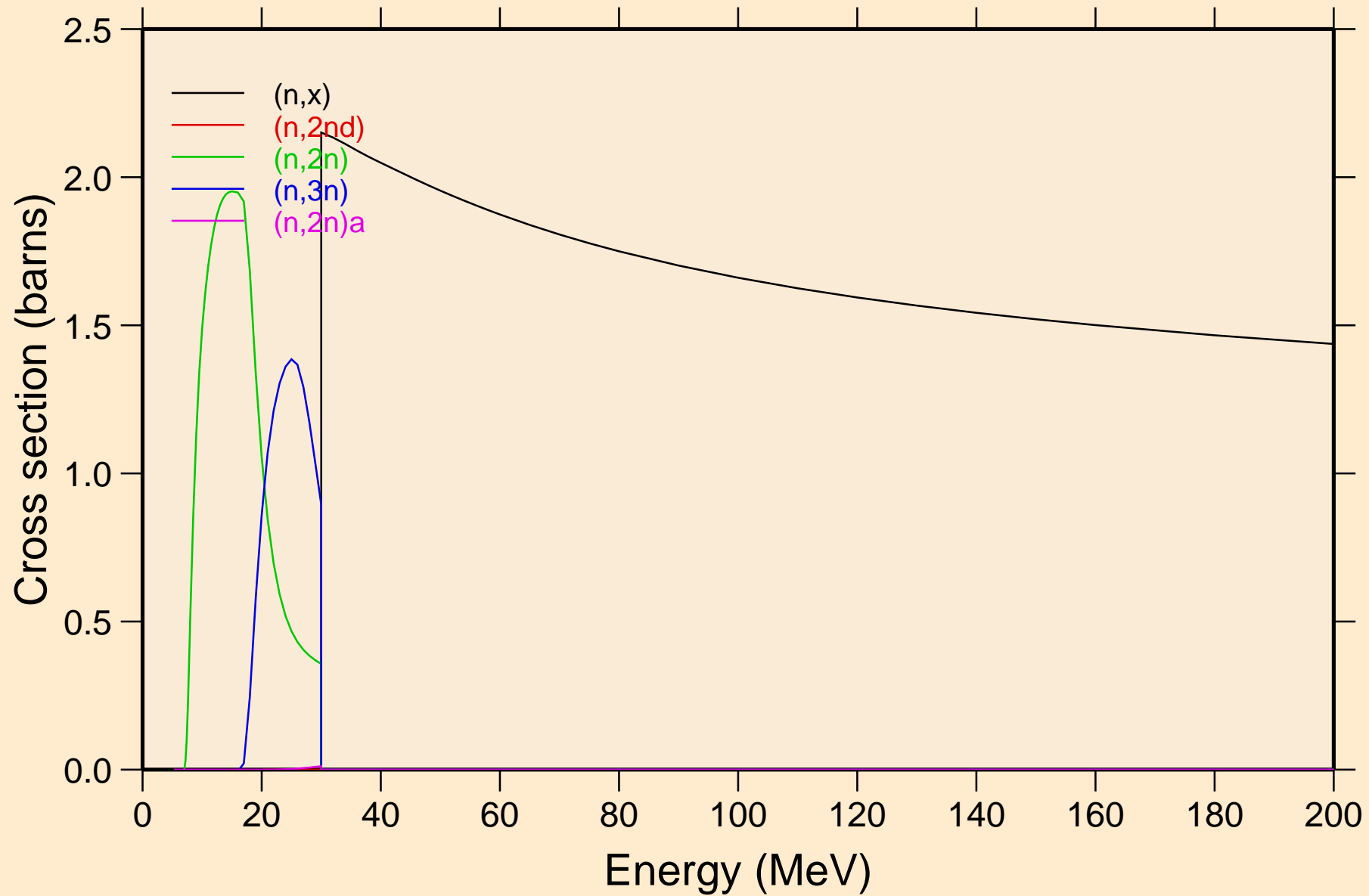
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



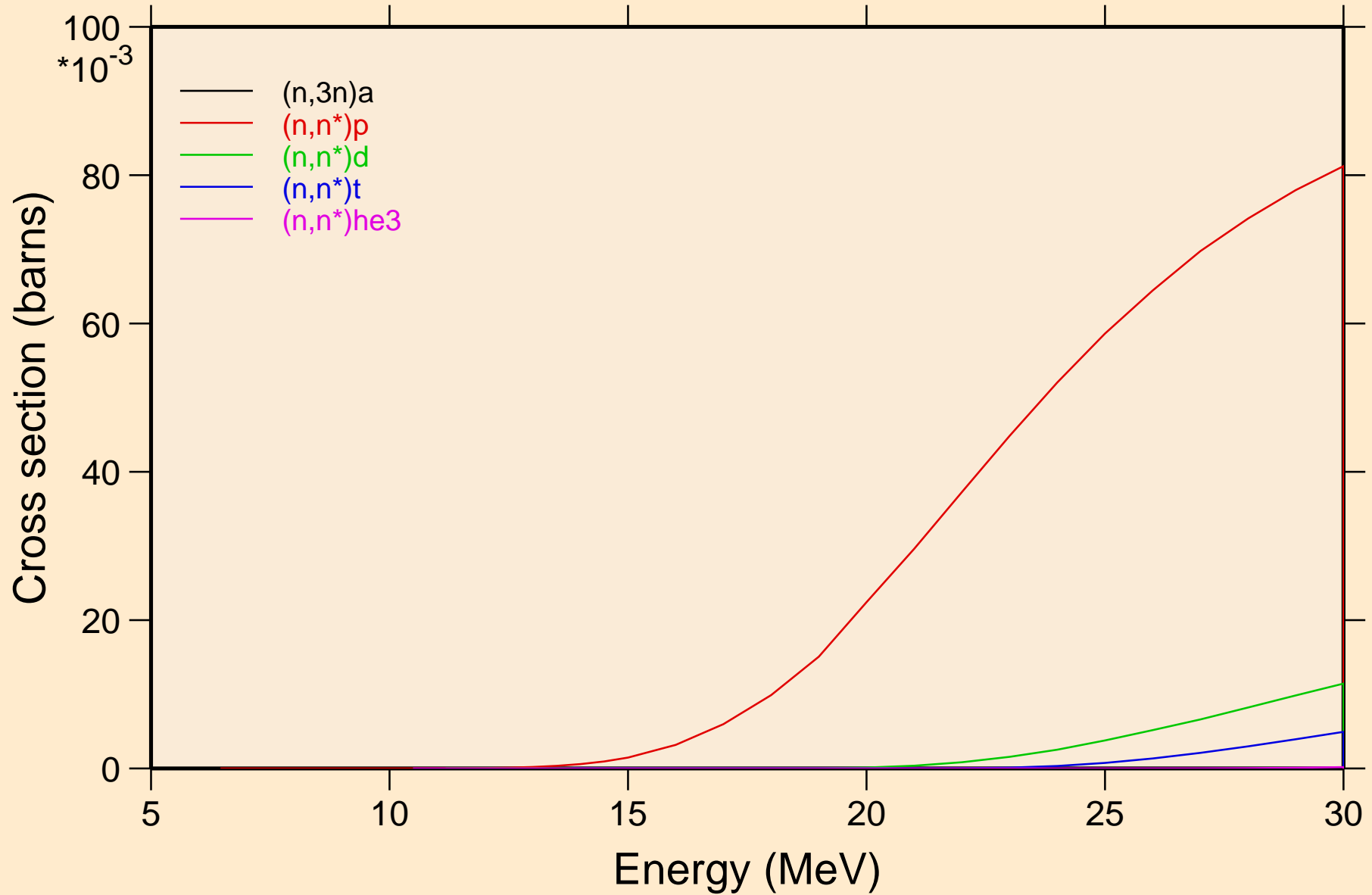
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Inelastic levels



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

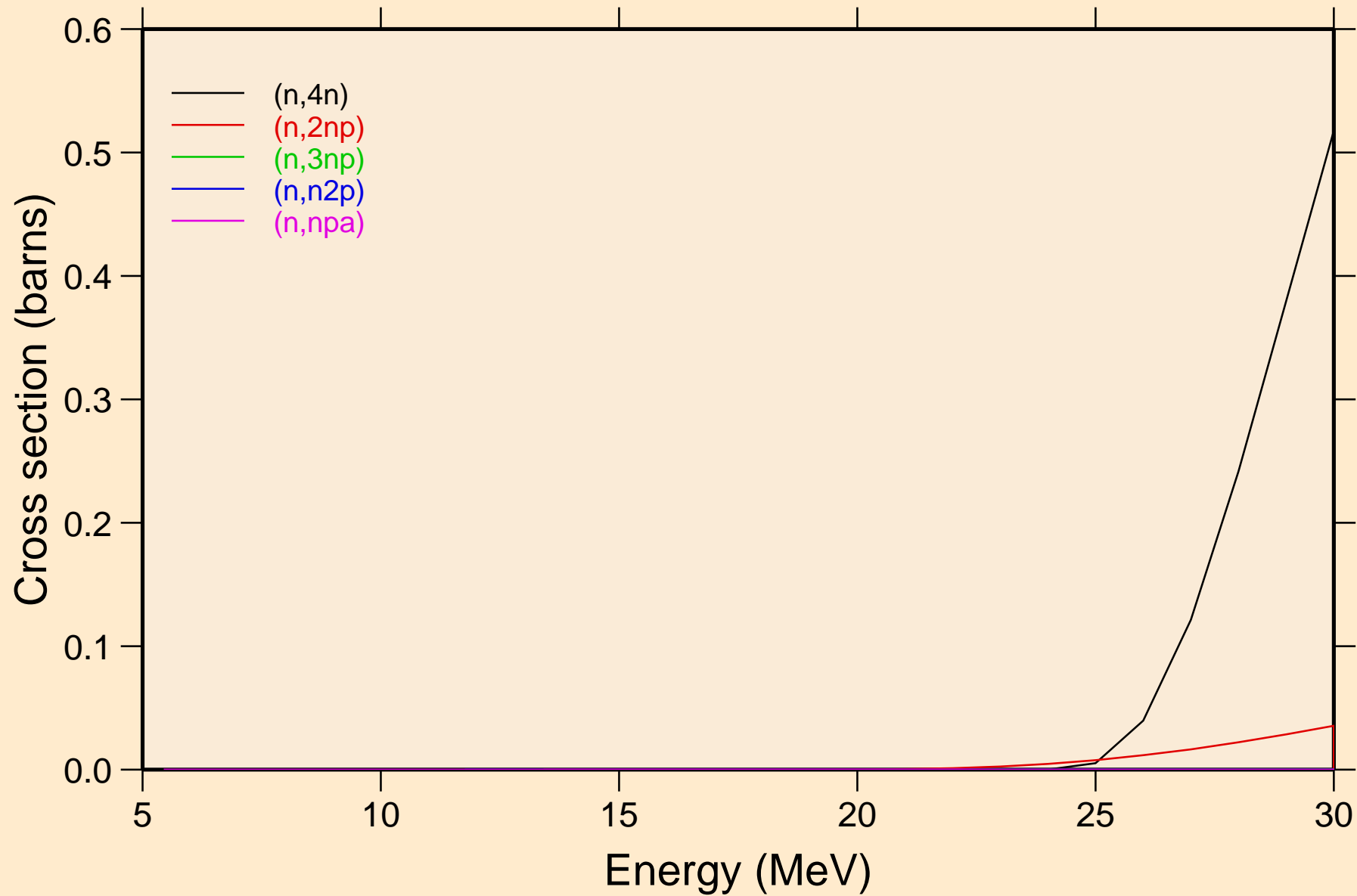


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions



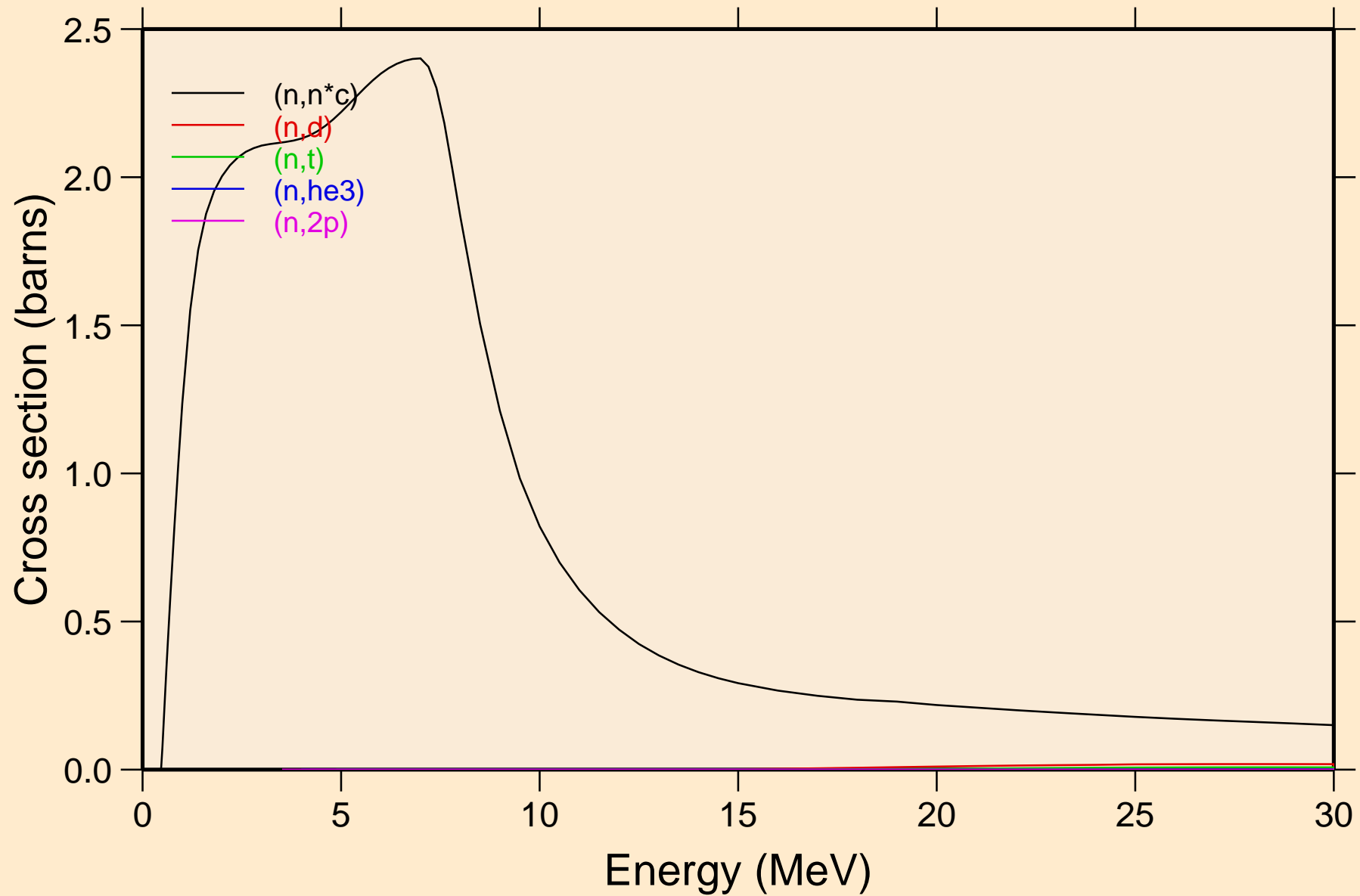


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

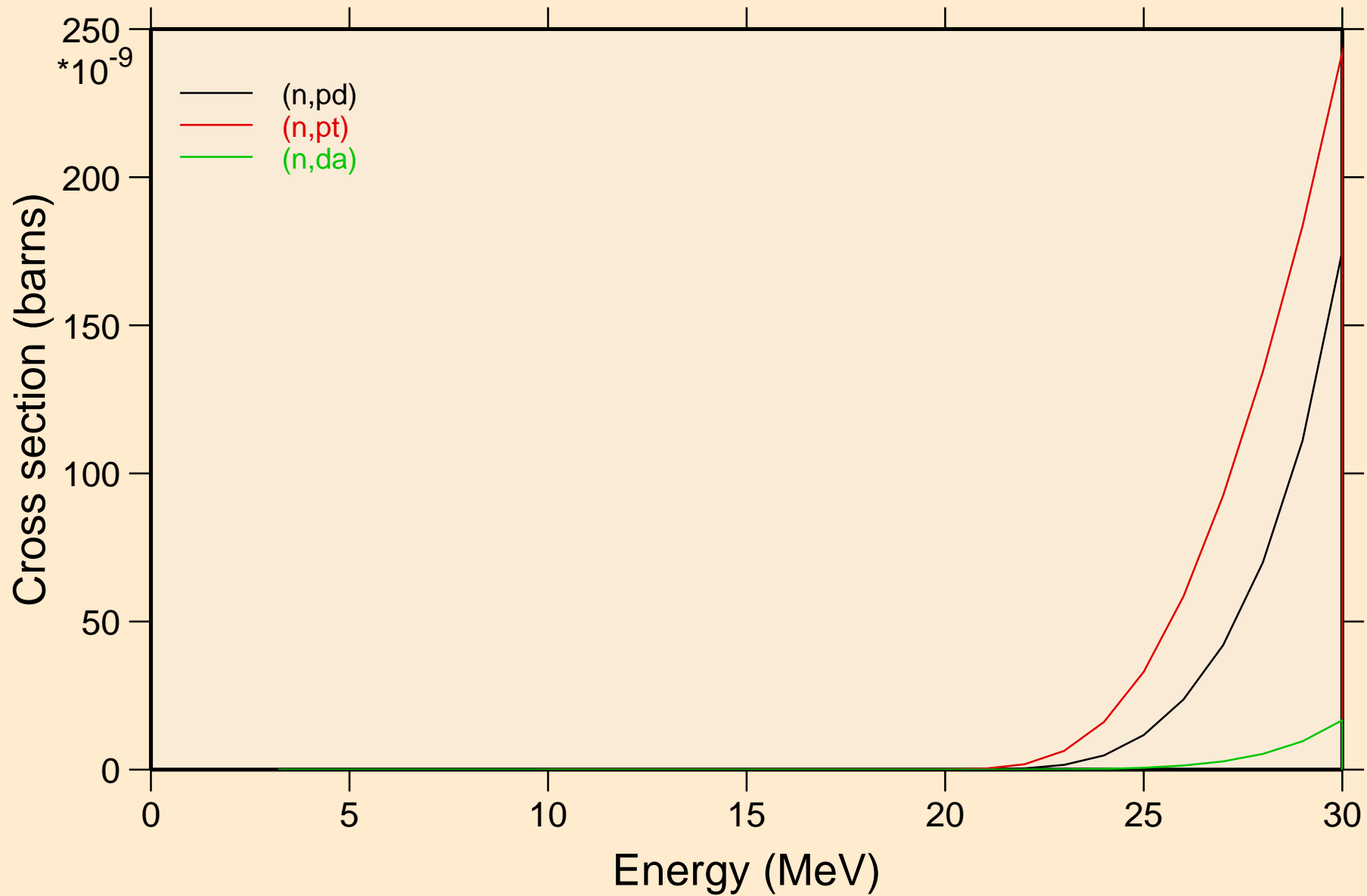


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Threshold reactions

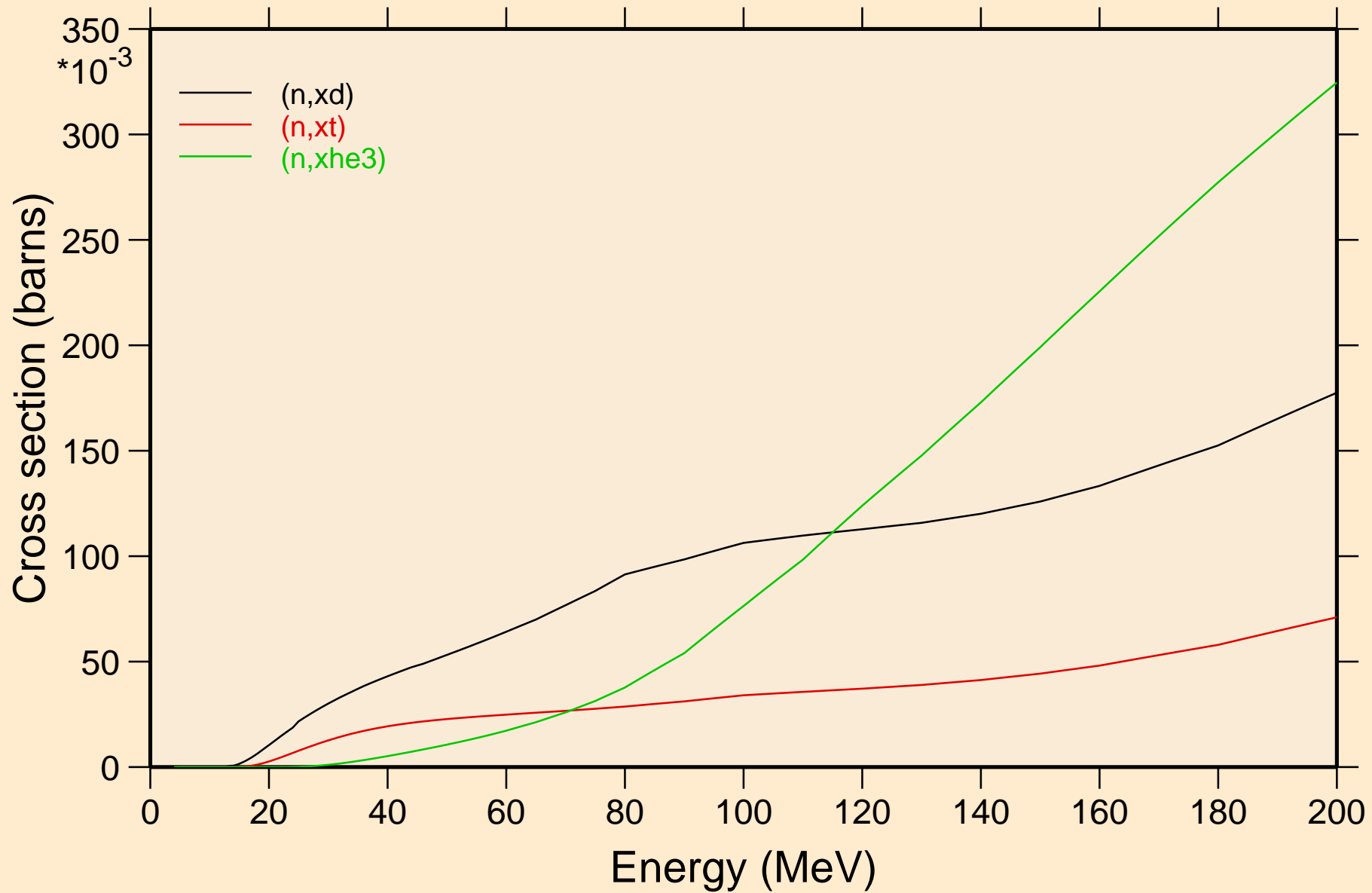


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Threshold reactions

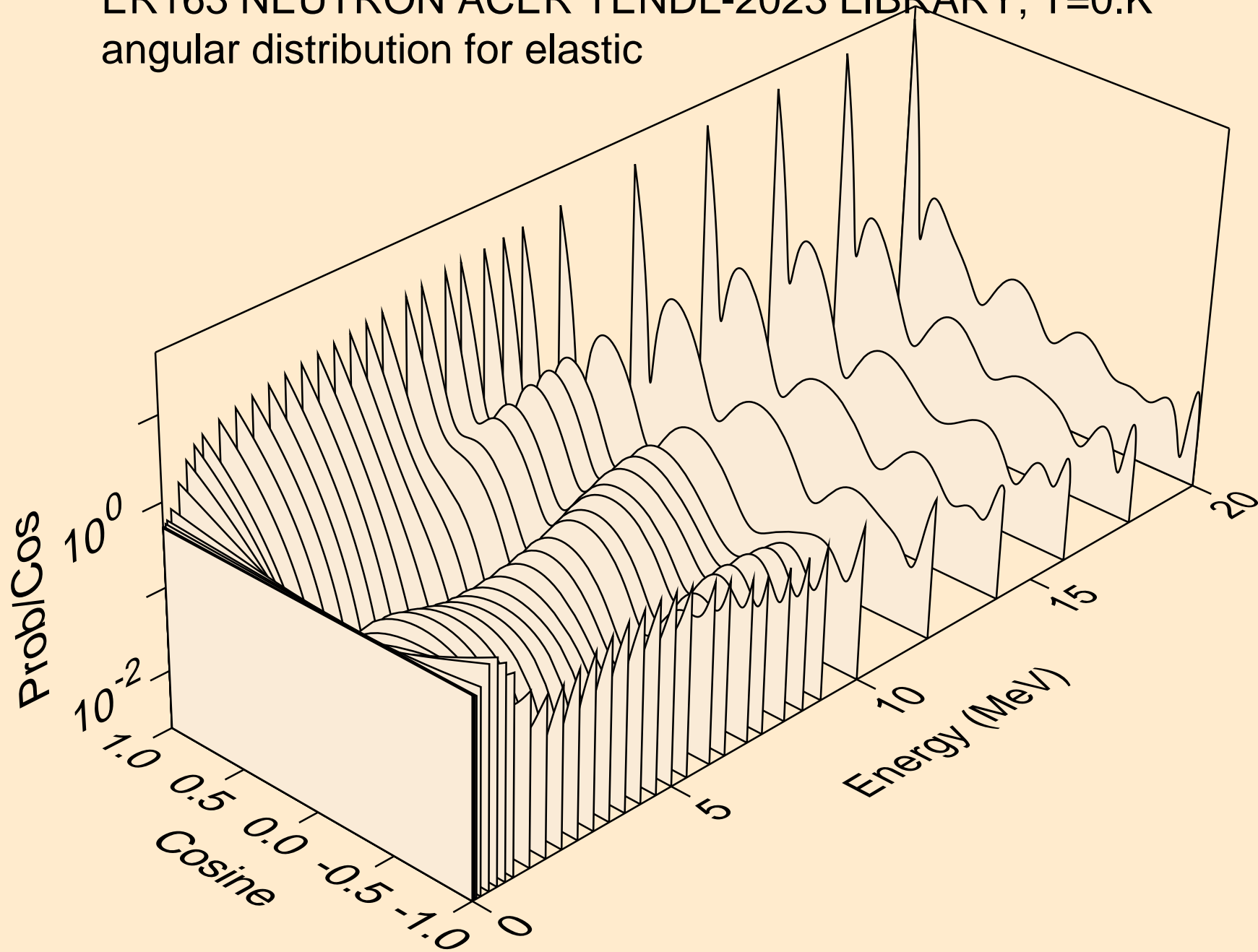


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

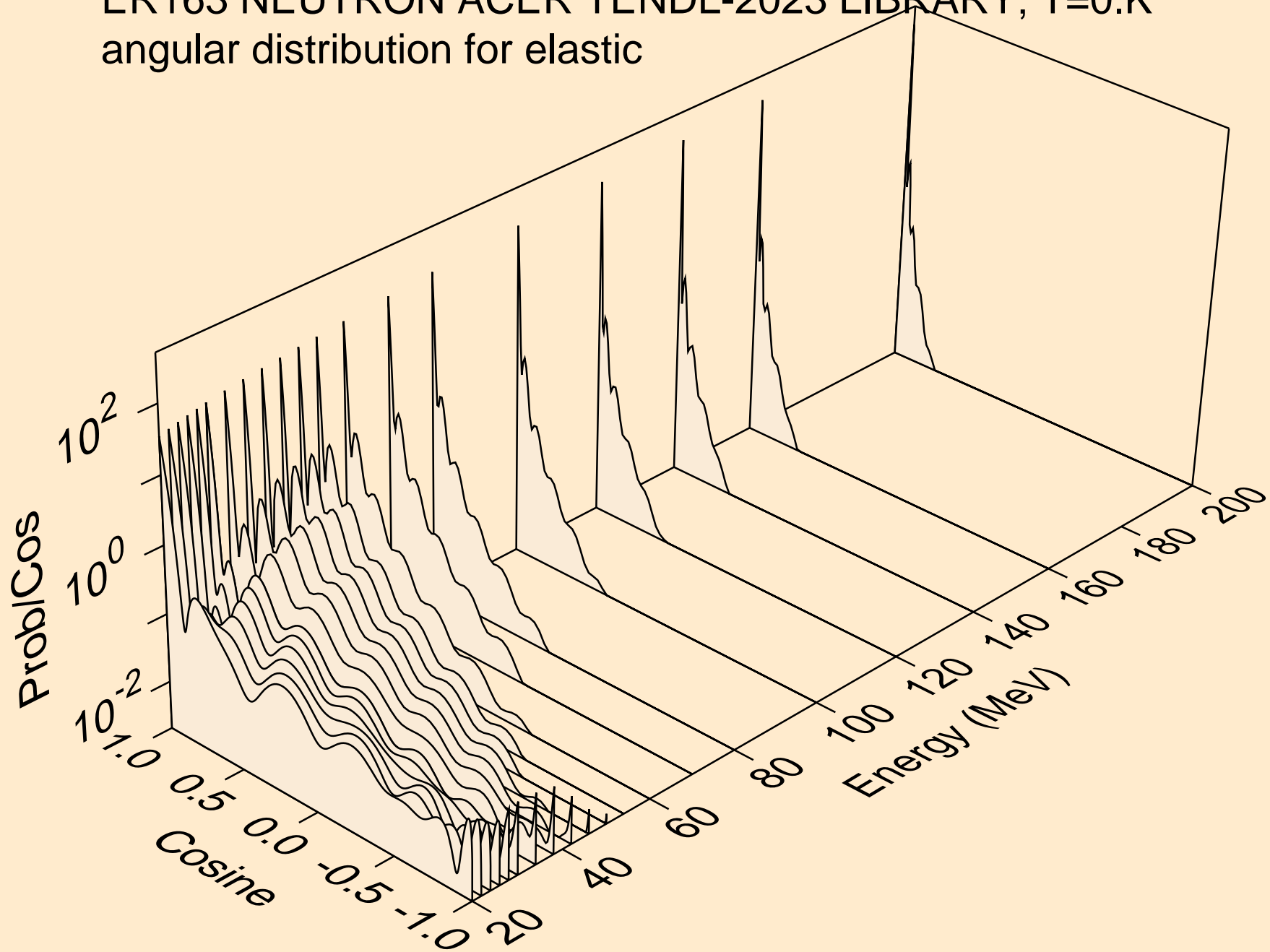
## Threshold reactions



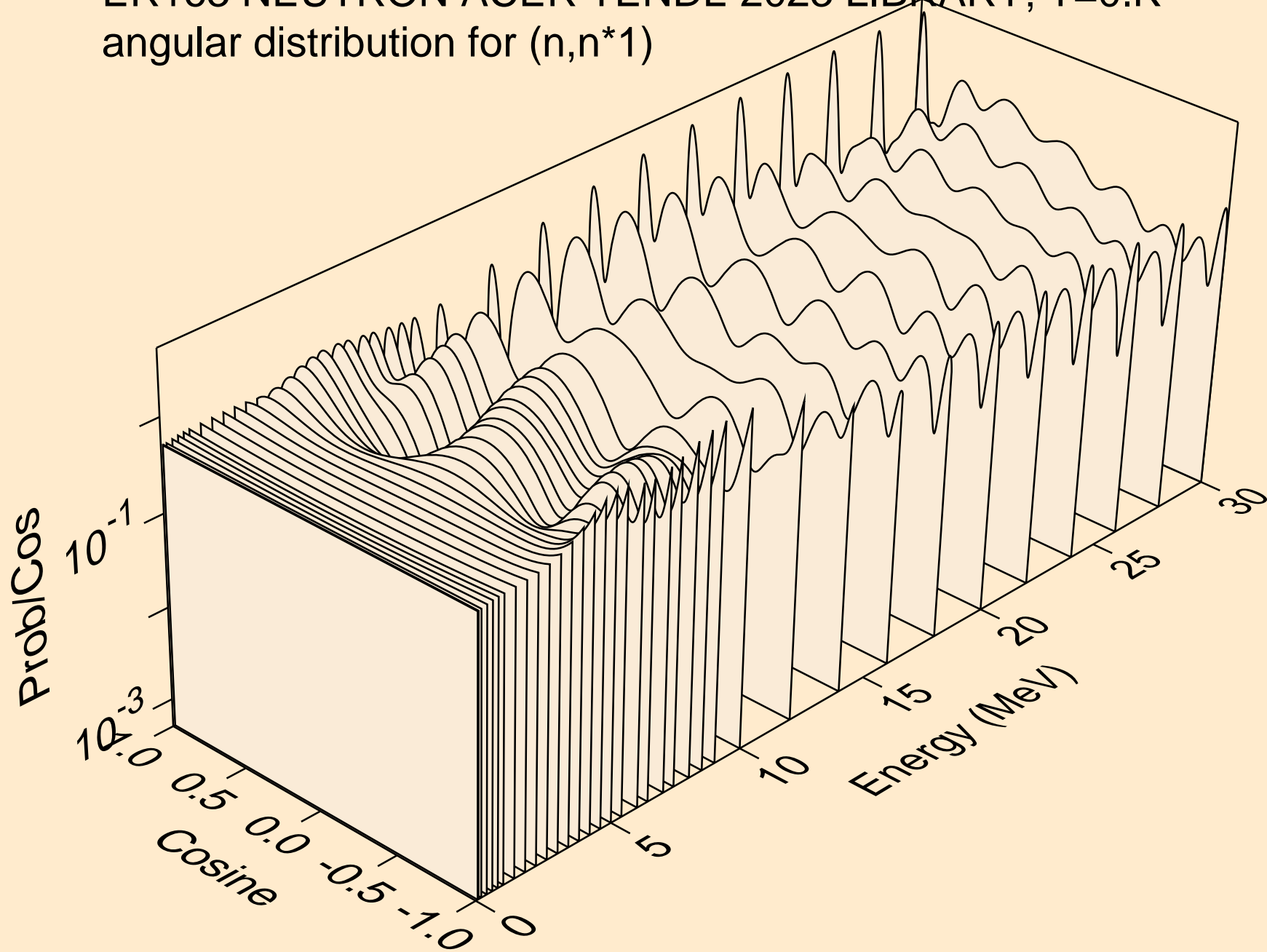
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



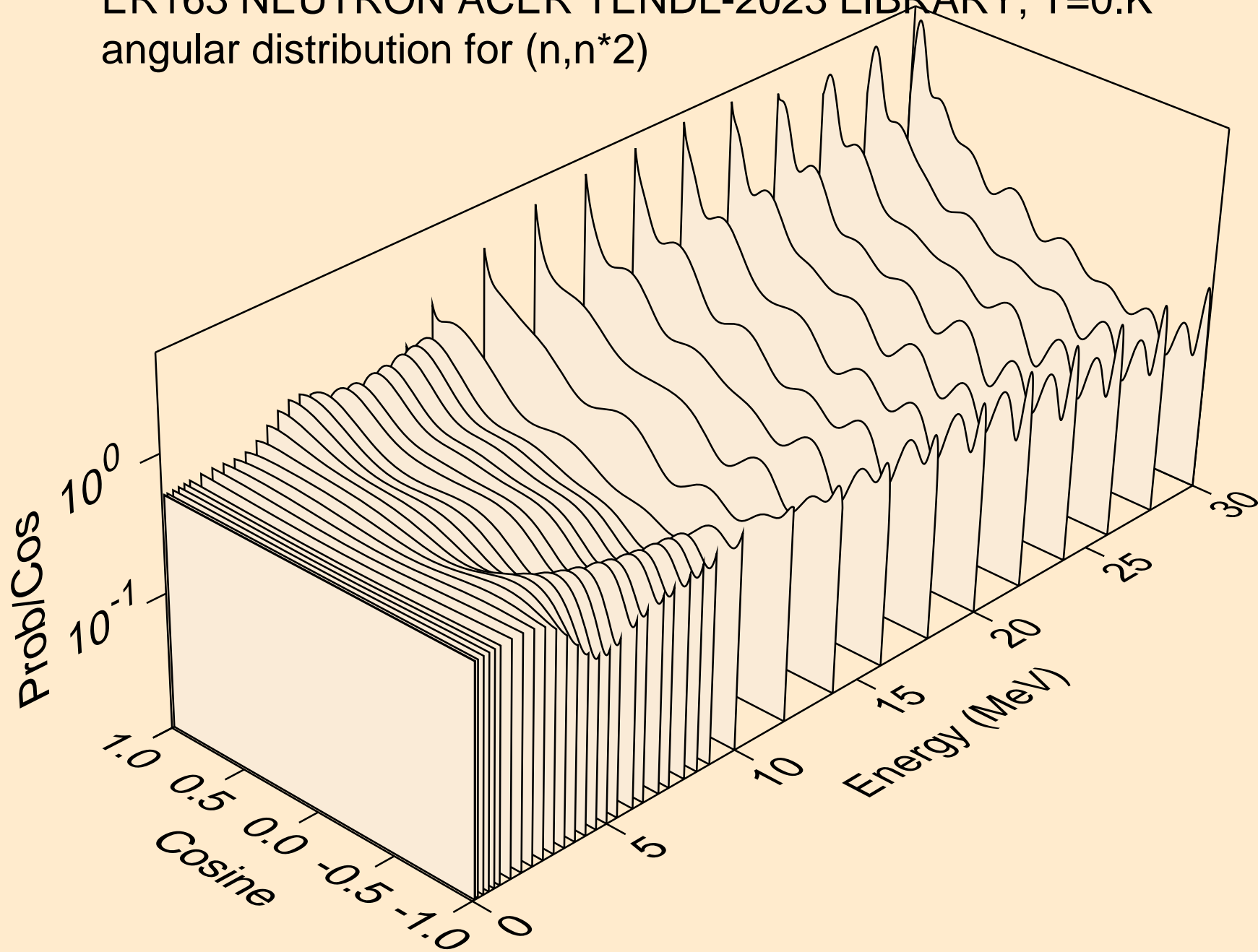
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for elastic



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*1)

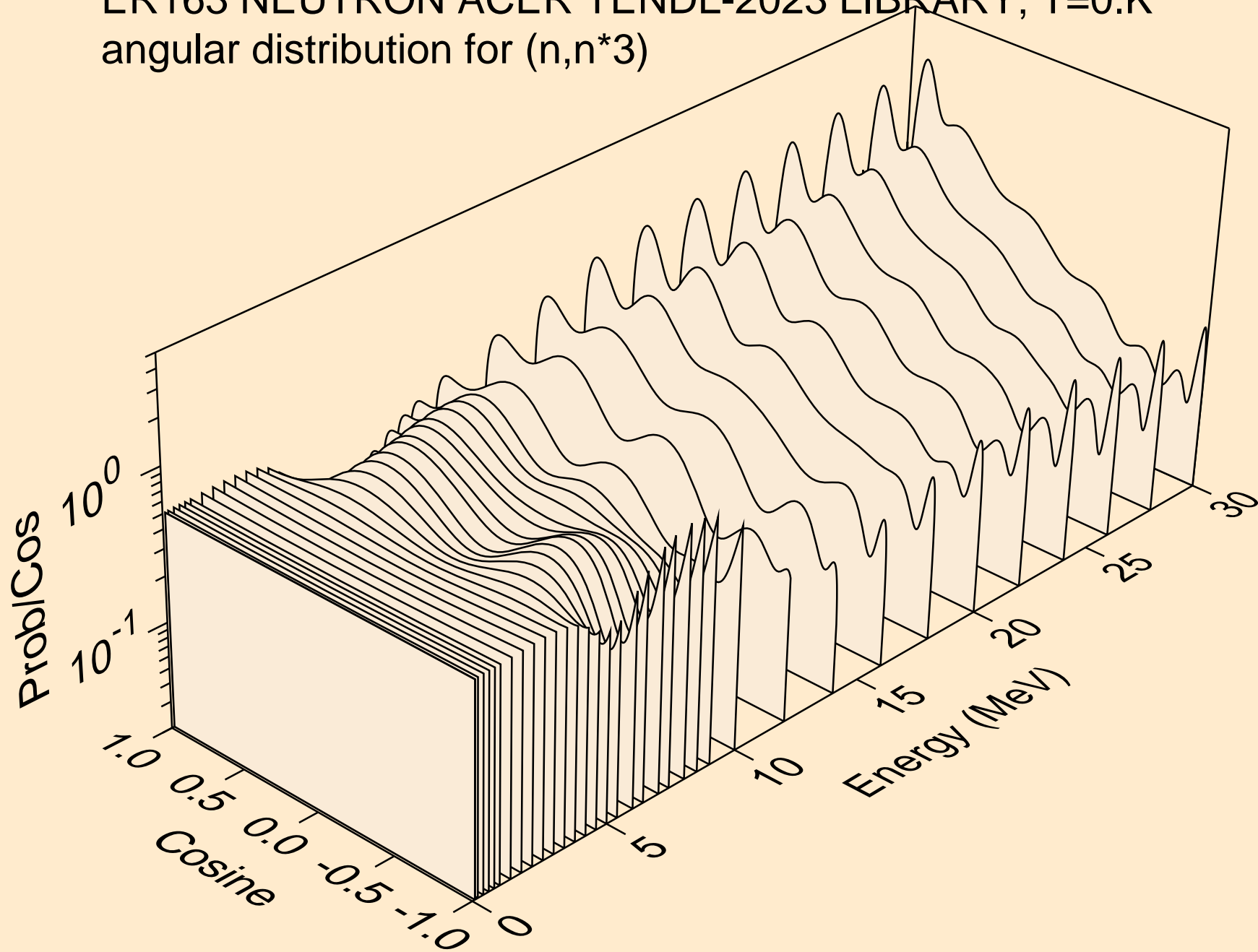


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*2)

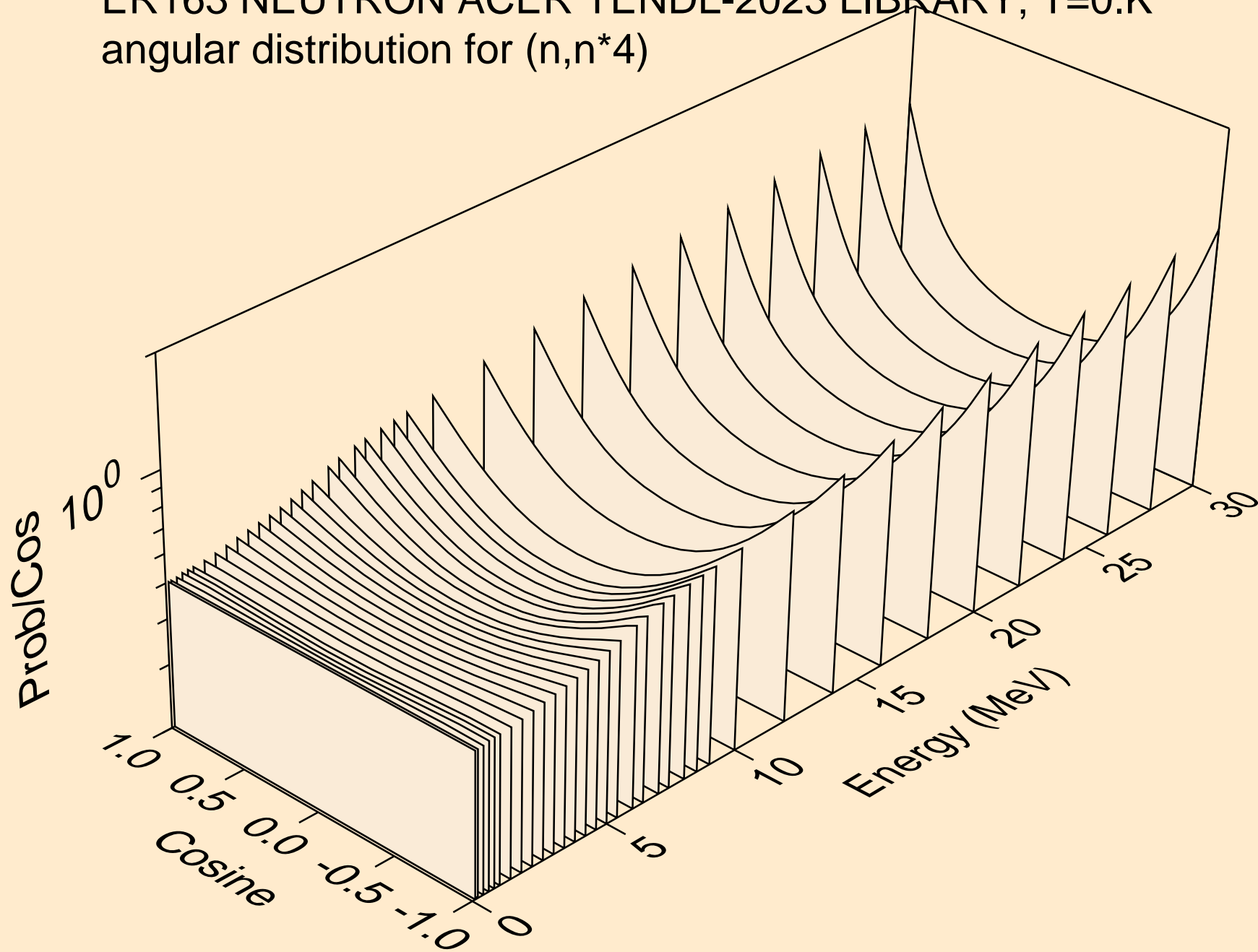




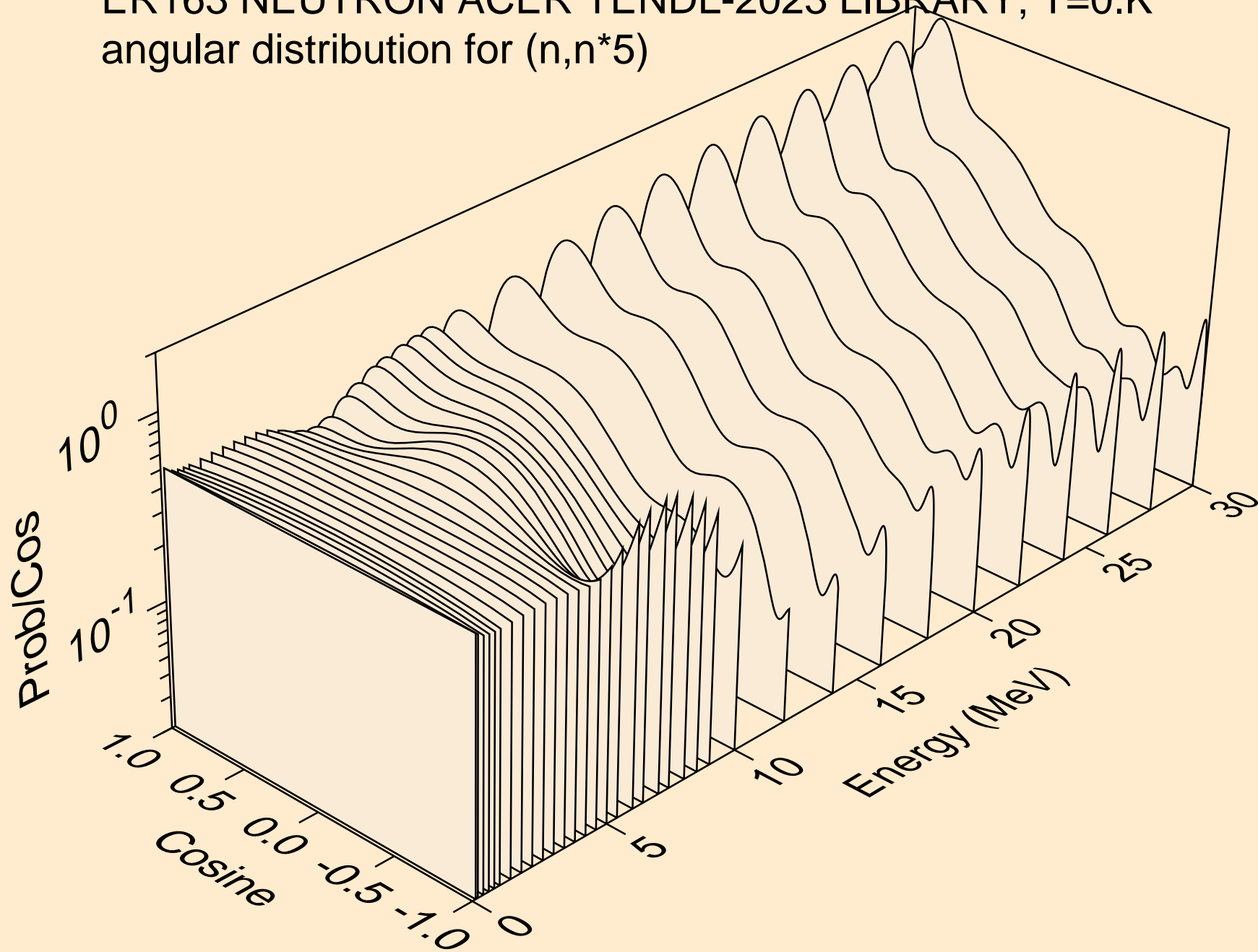
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*3)



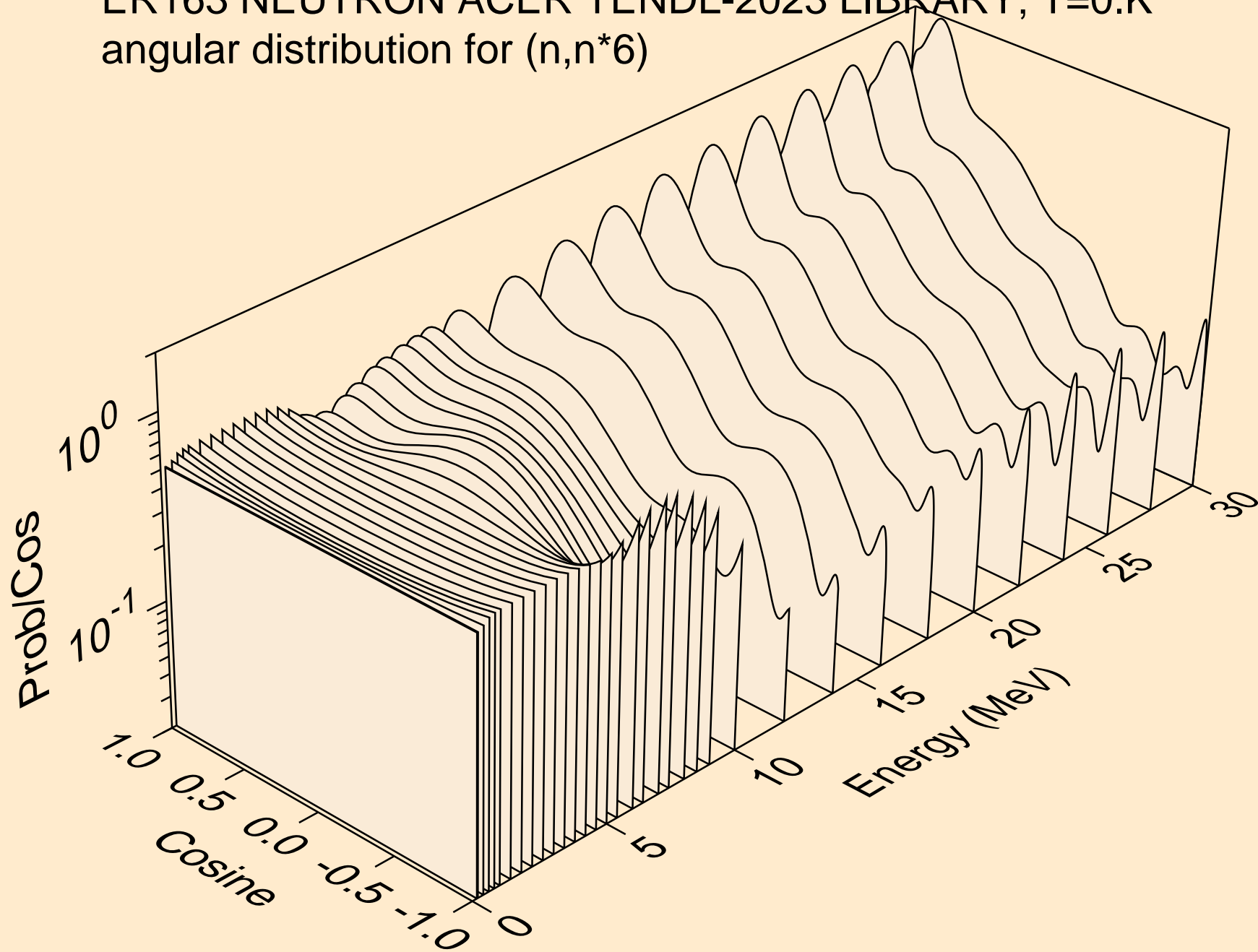
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*4)



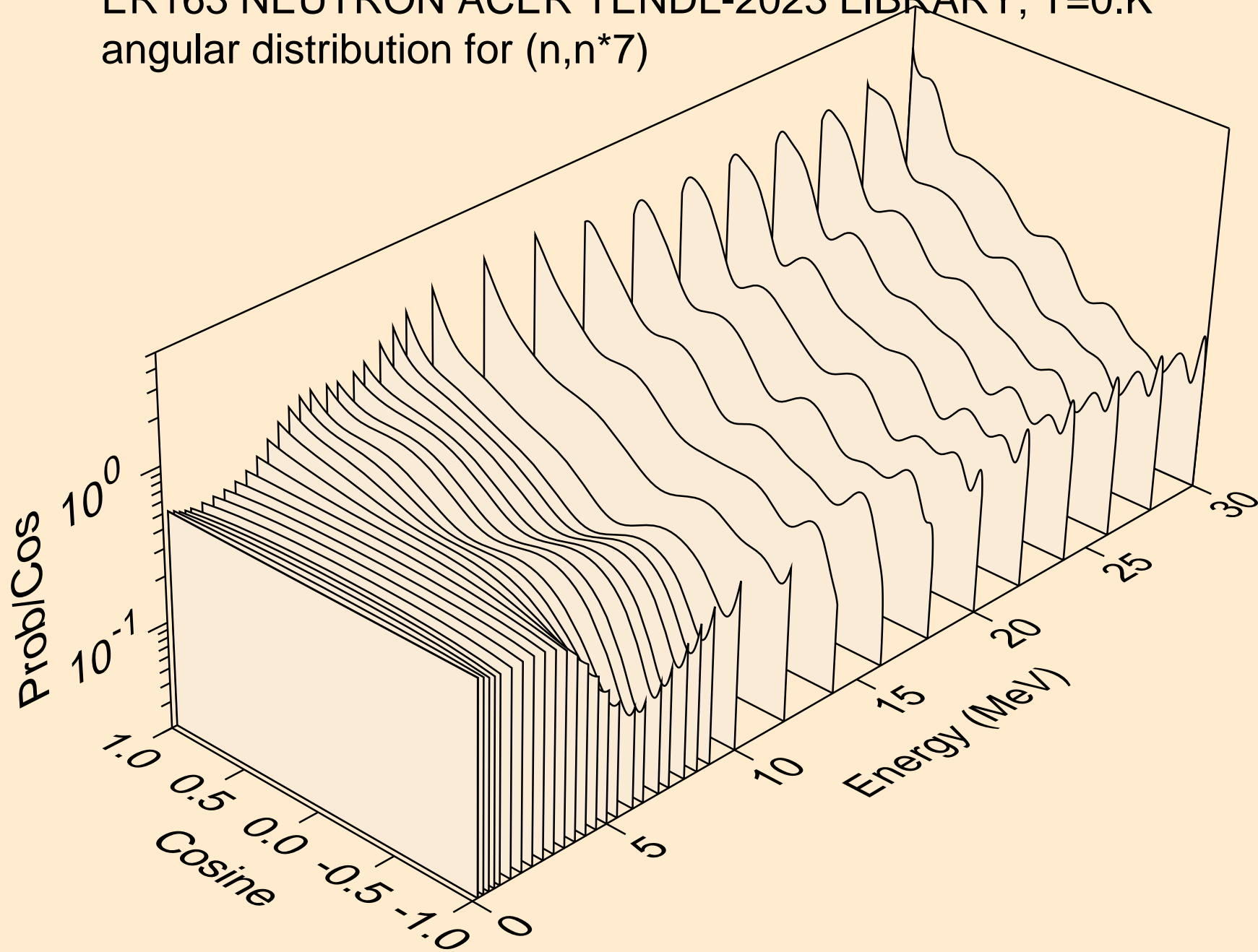
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*5)



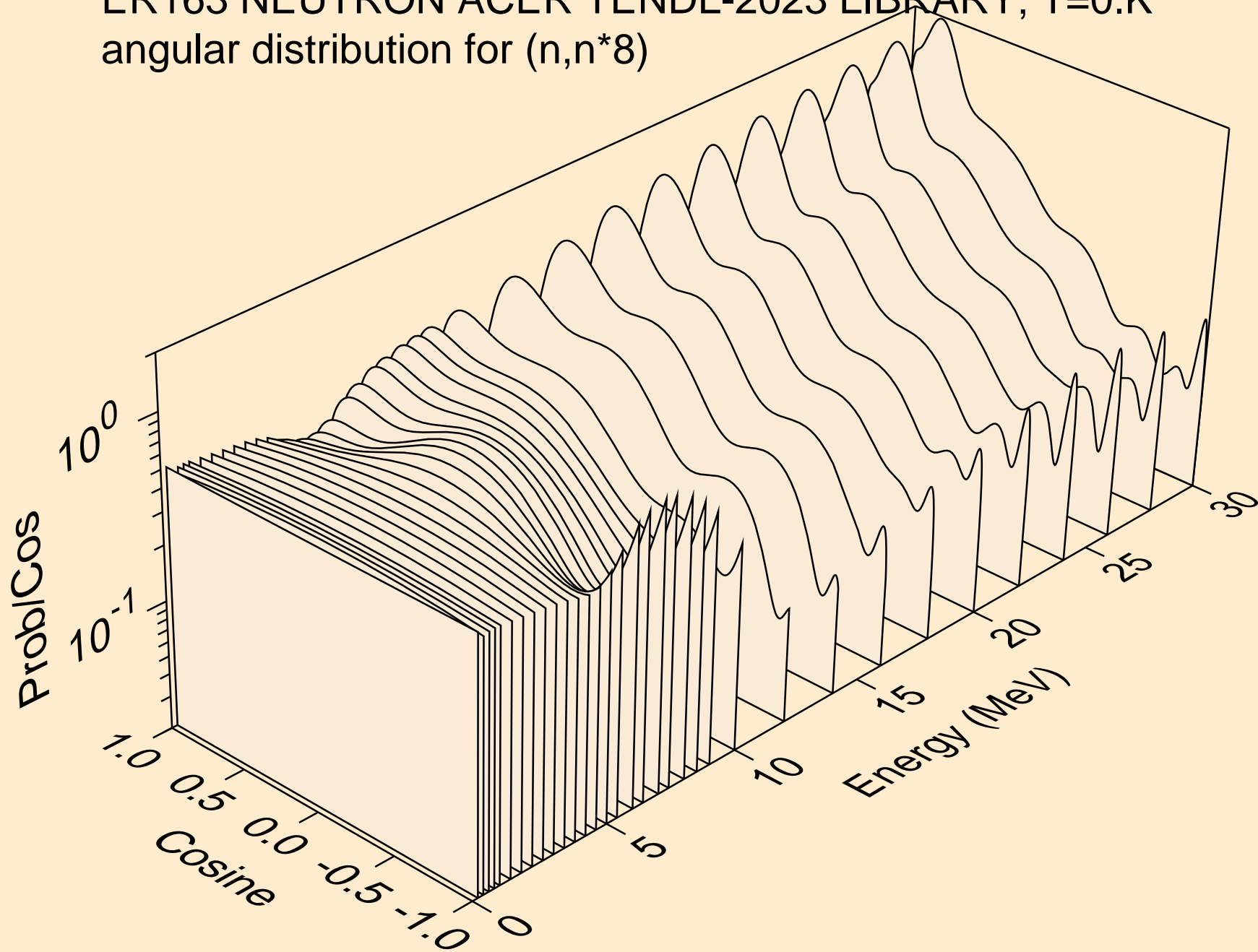
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*6)



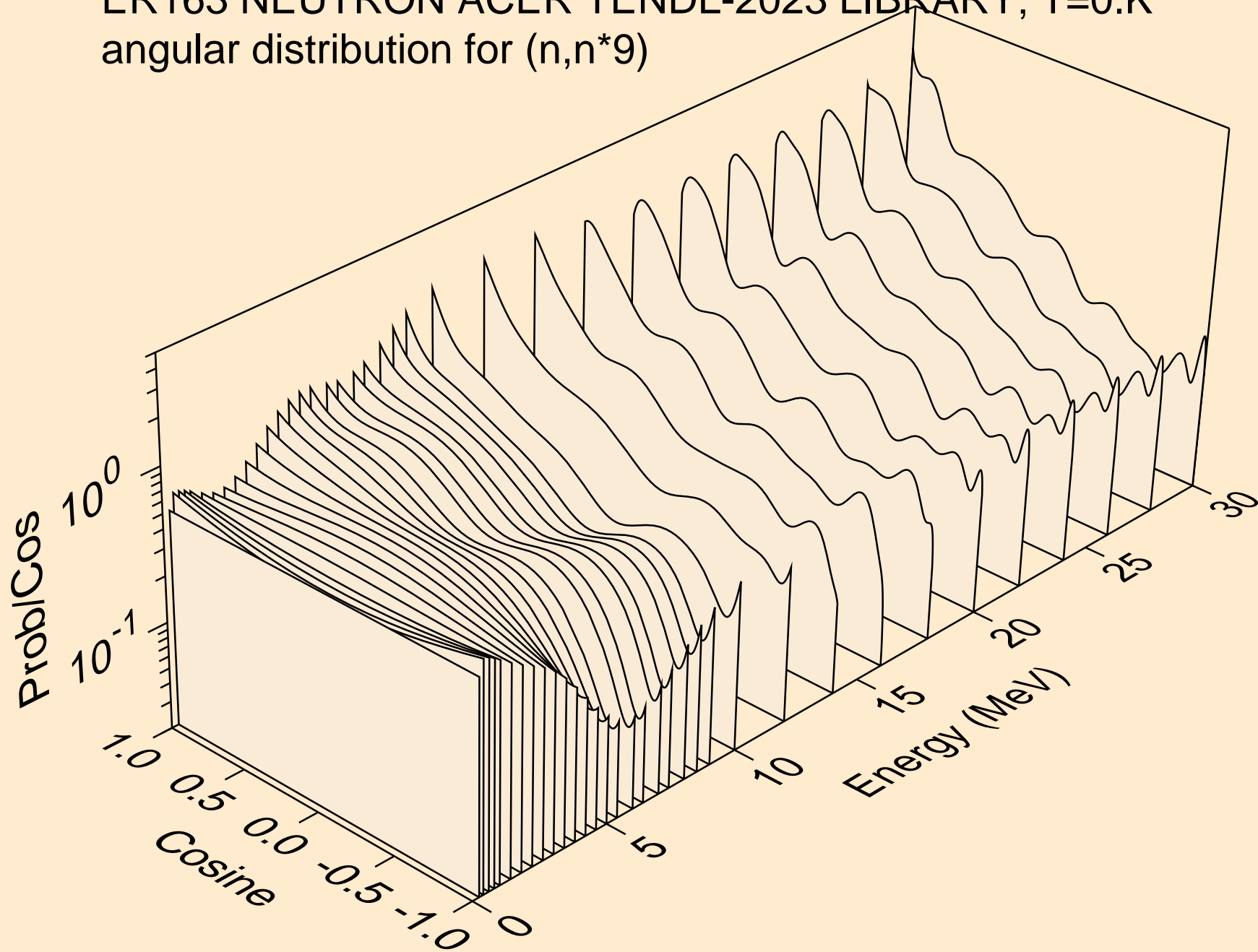
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*7)



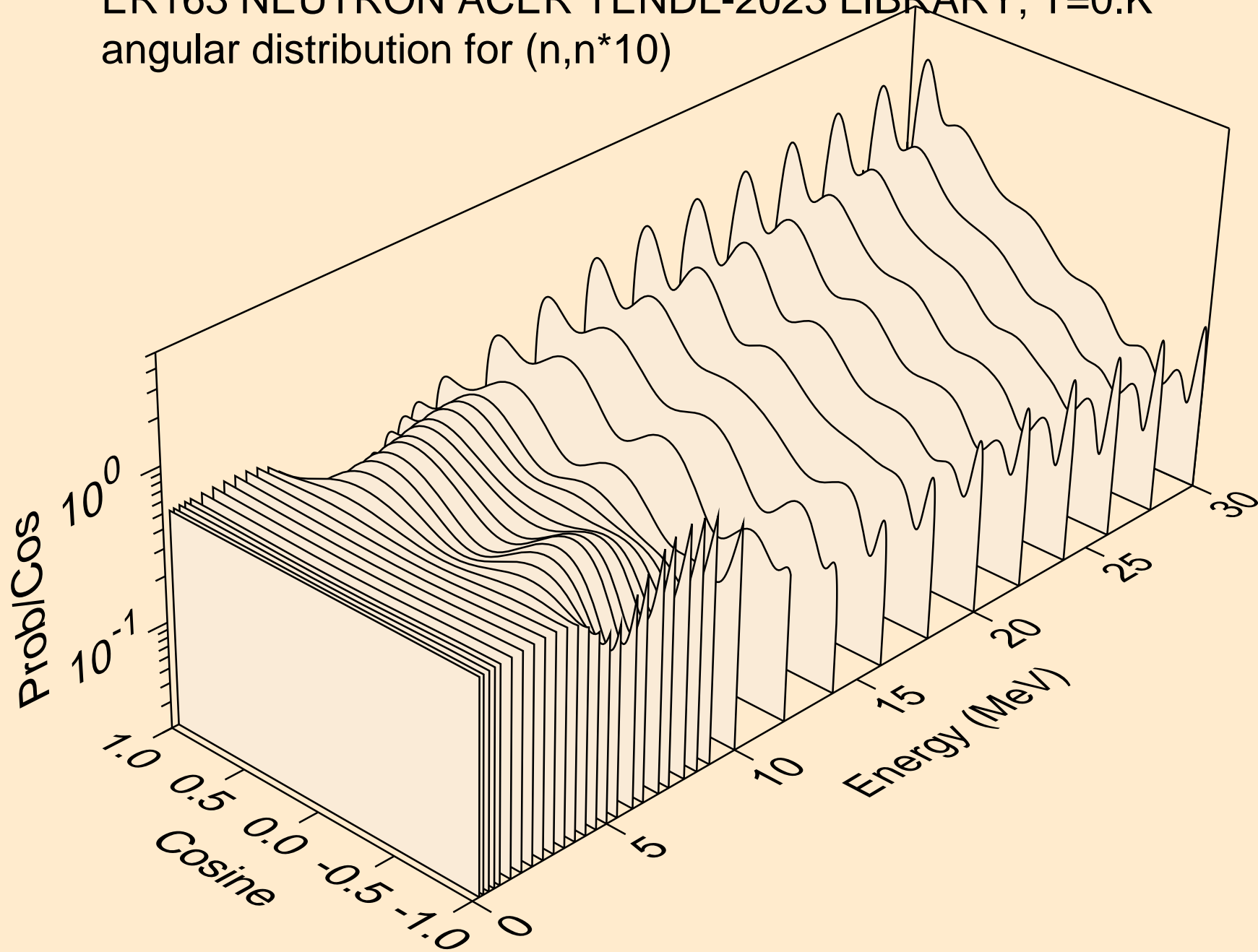
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*8)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*9)

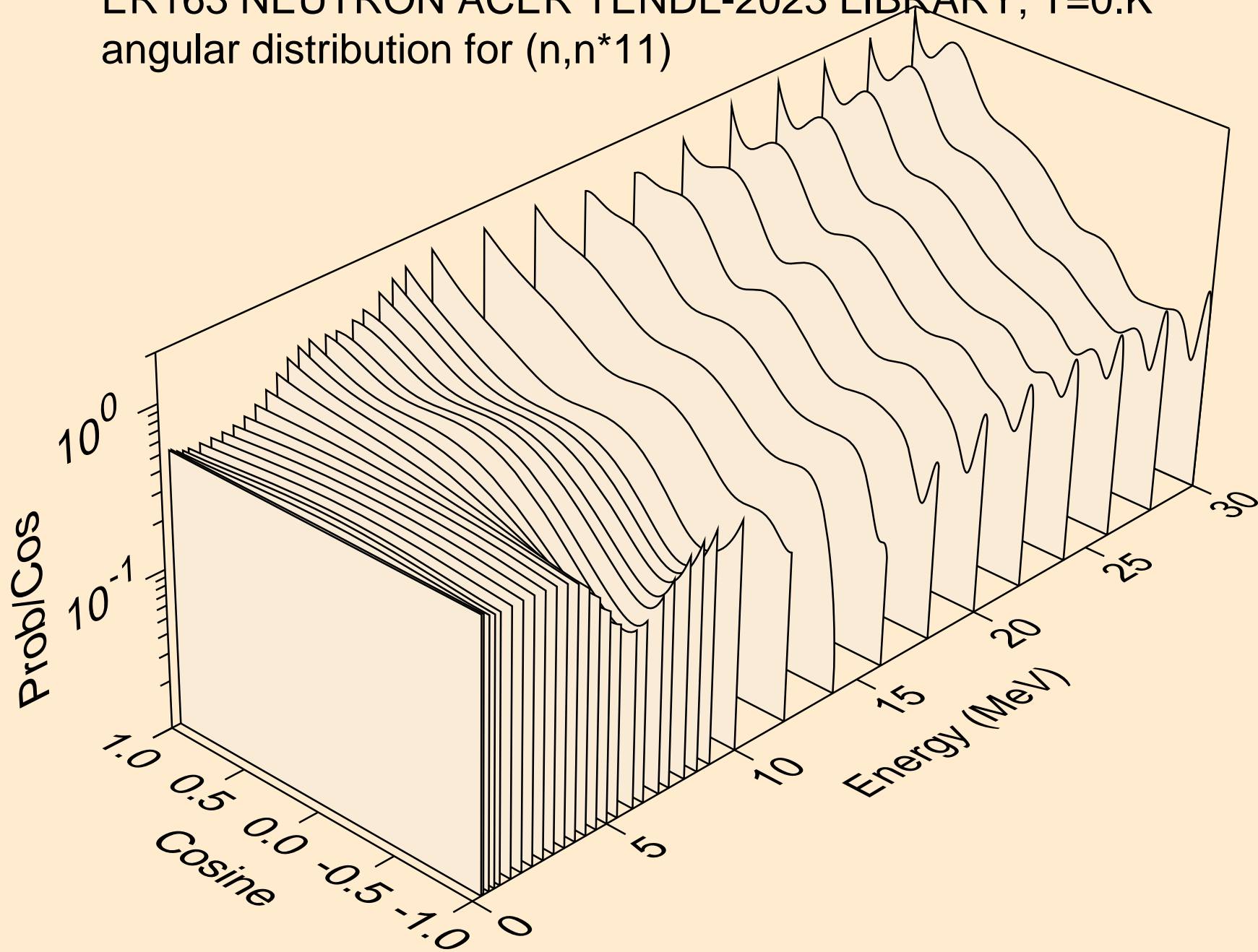


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*10)

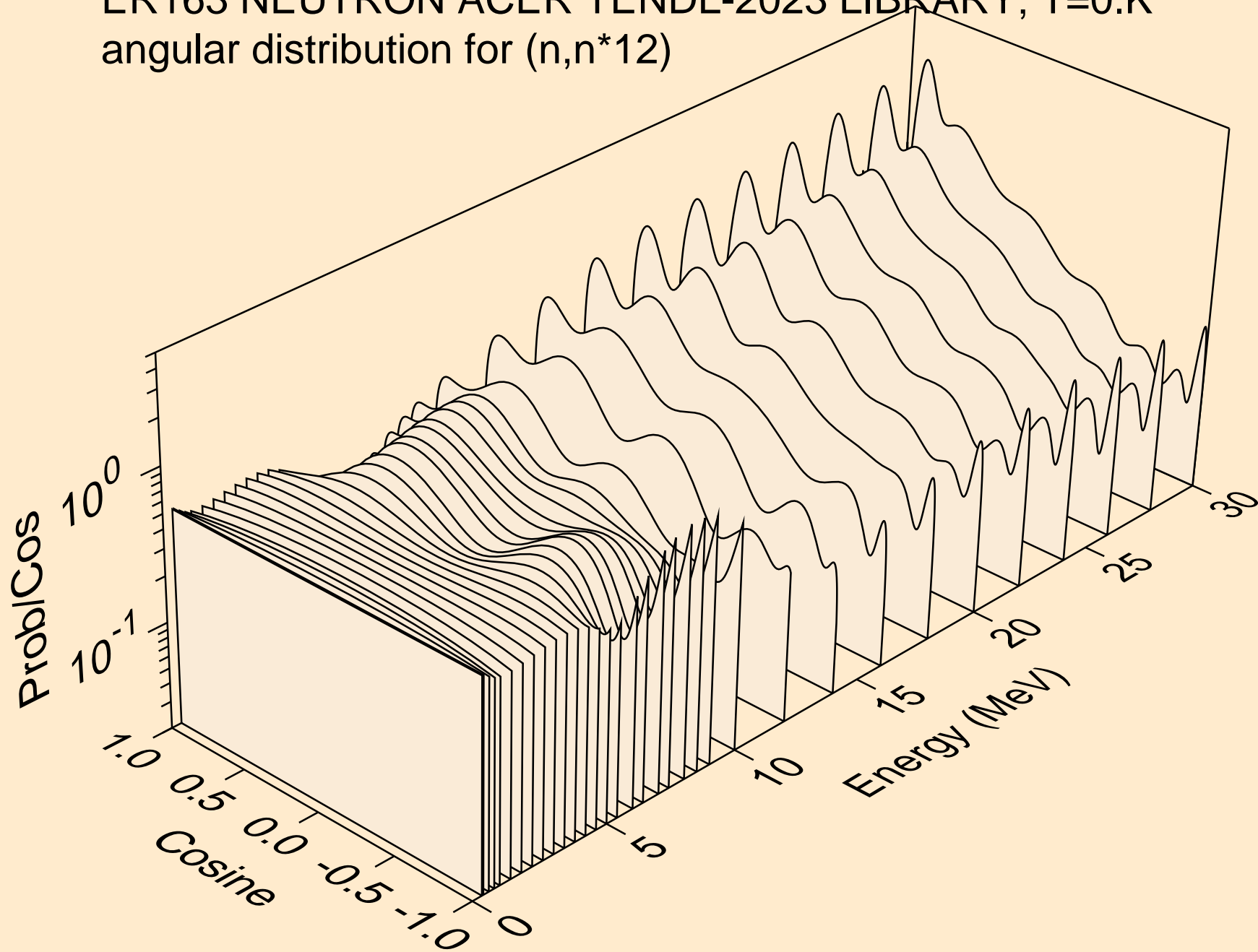




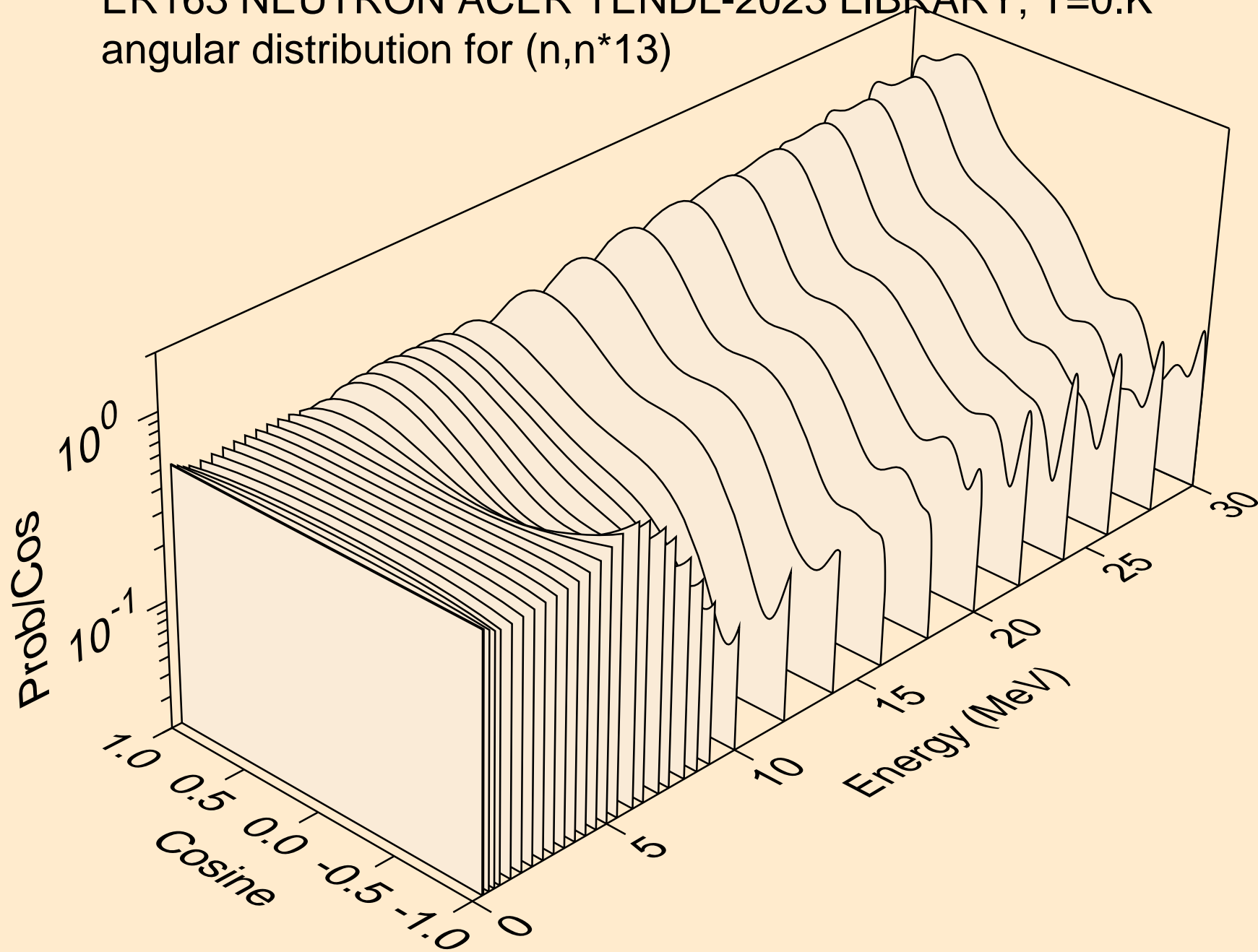
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*11)



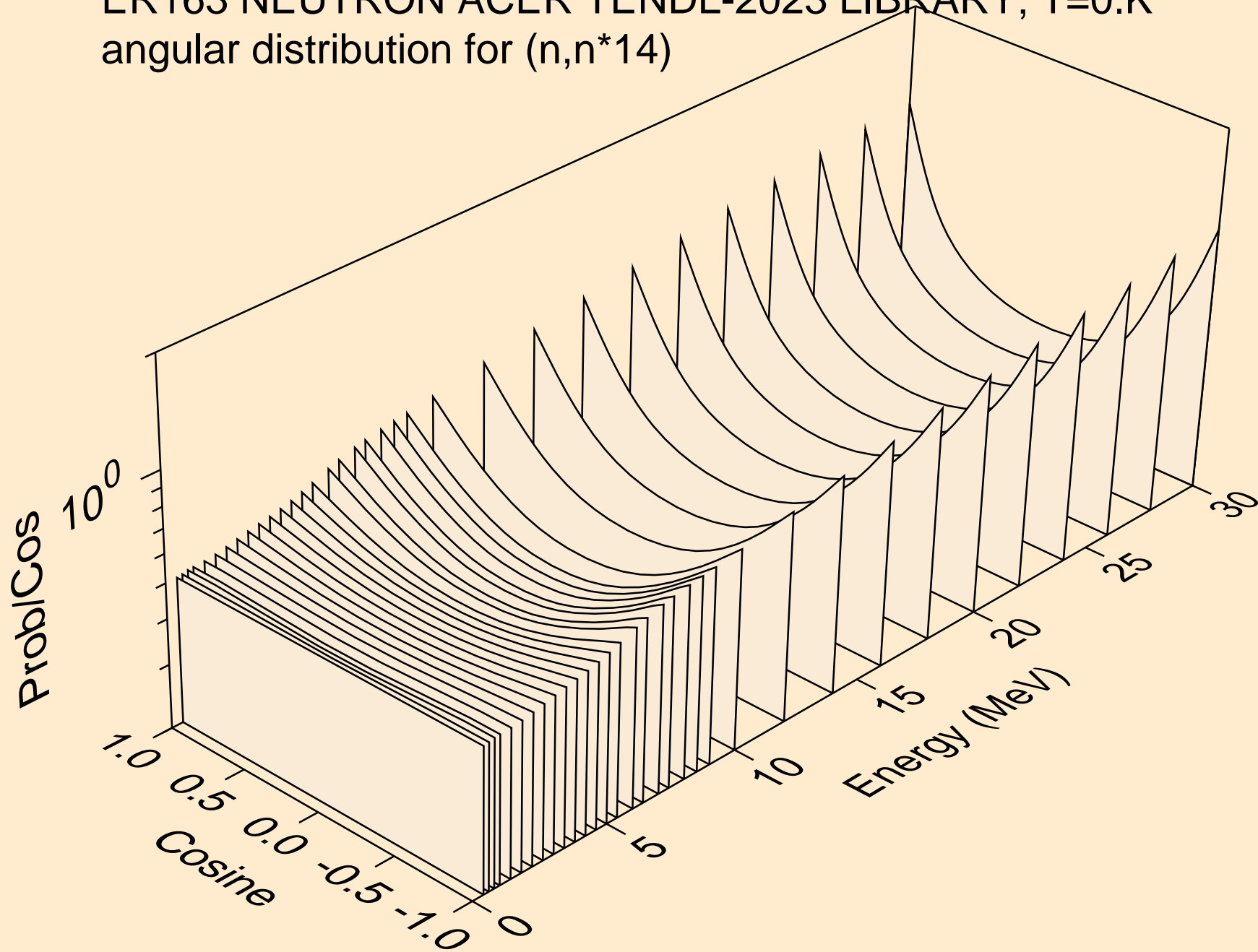
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*12)



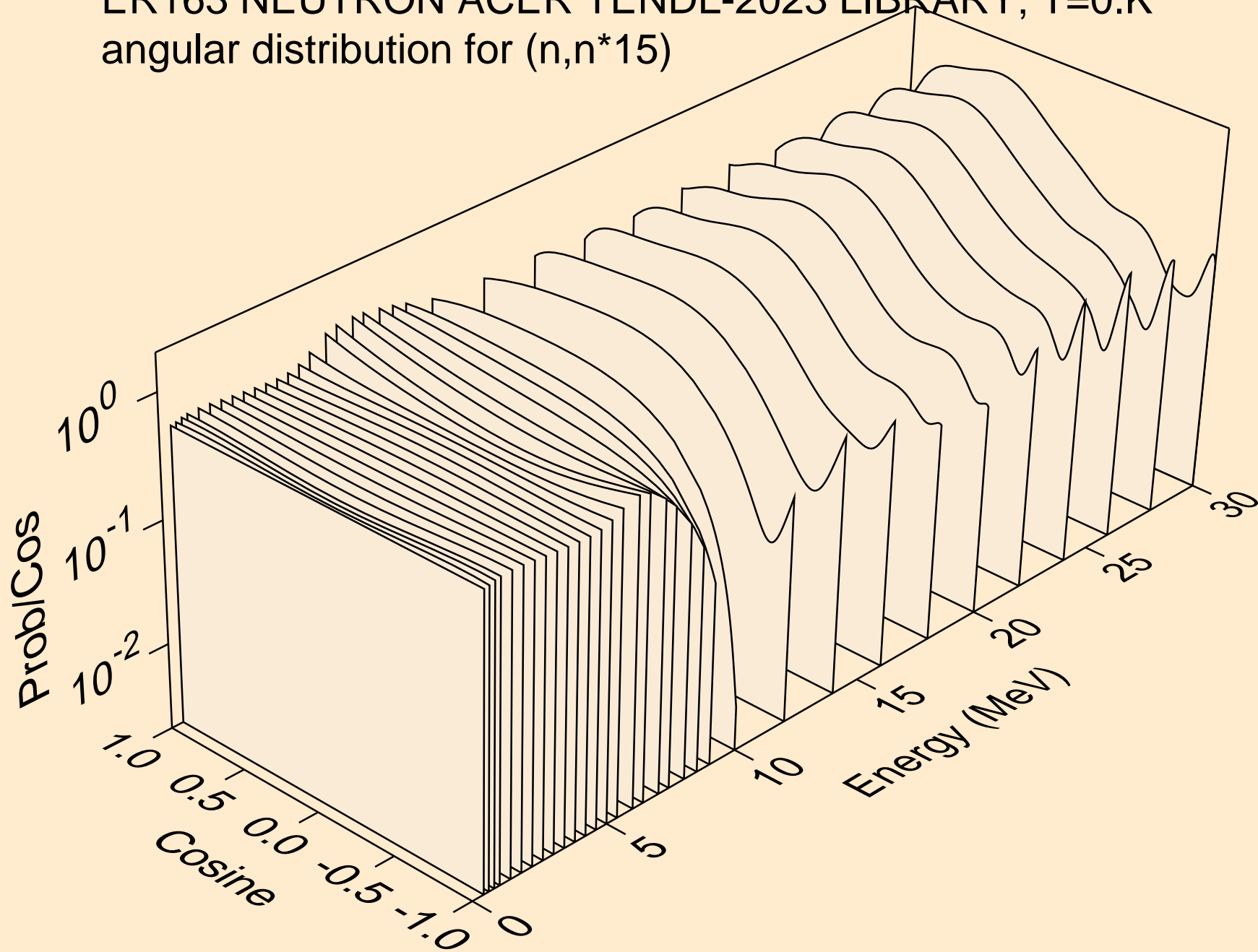
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*13)



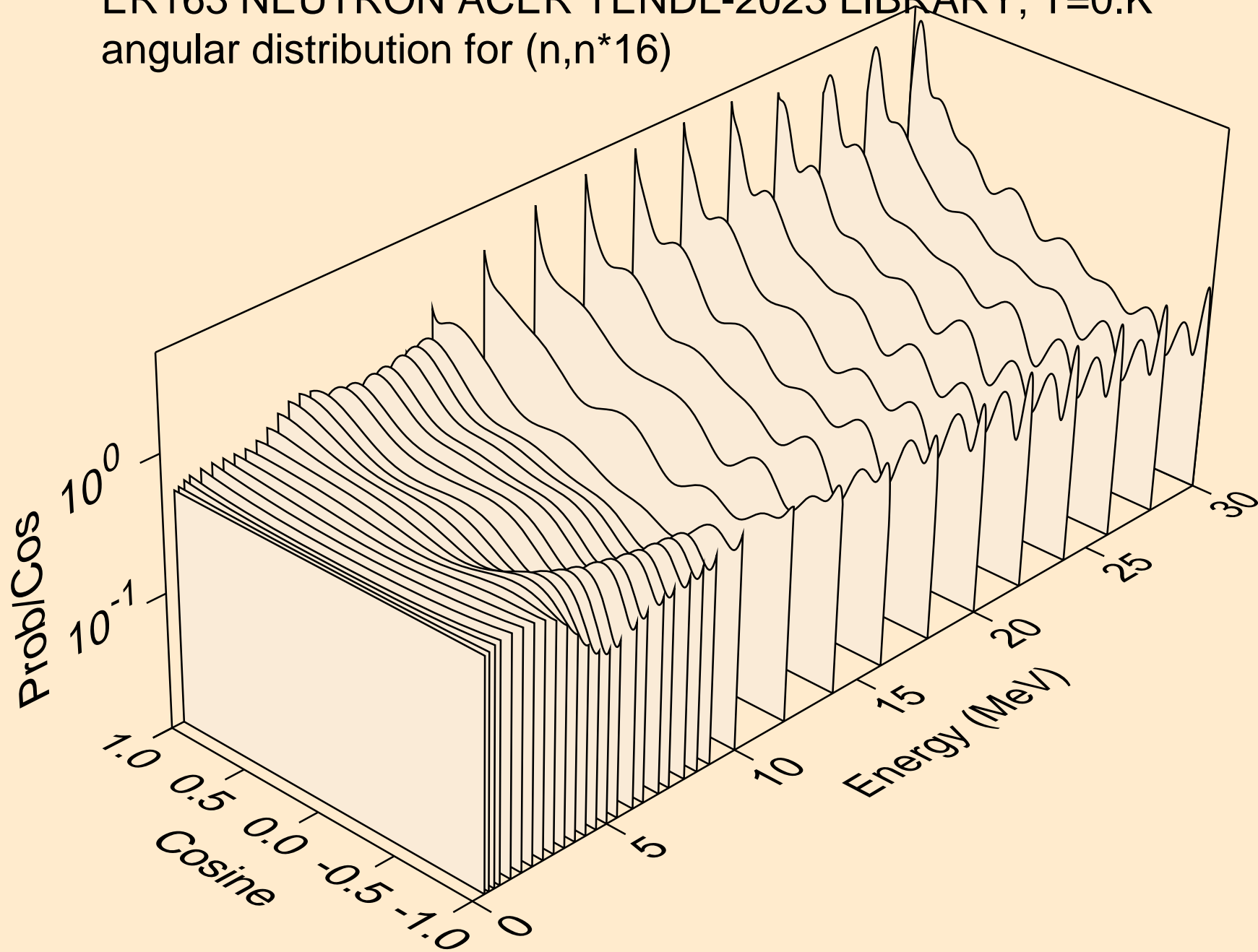
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*14)



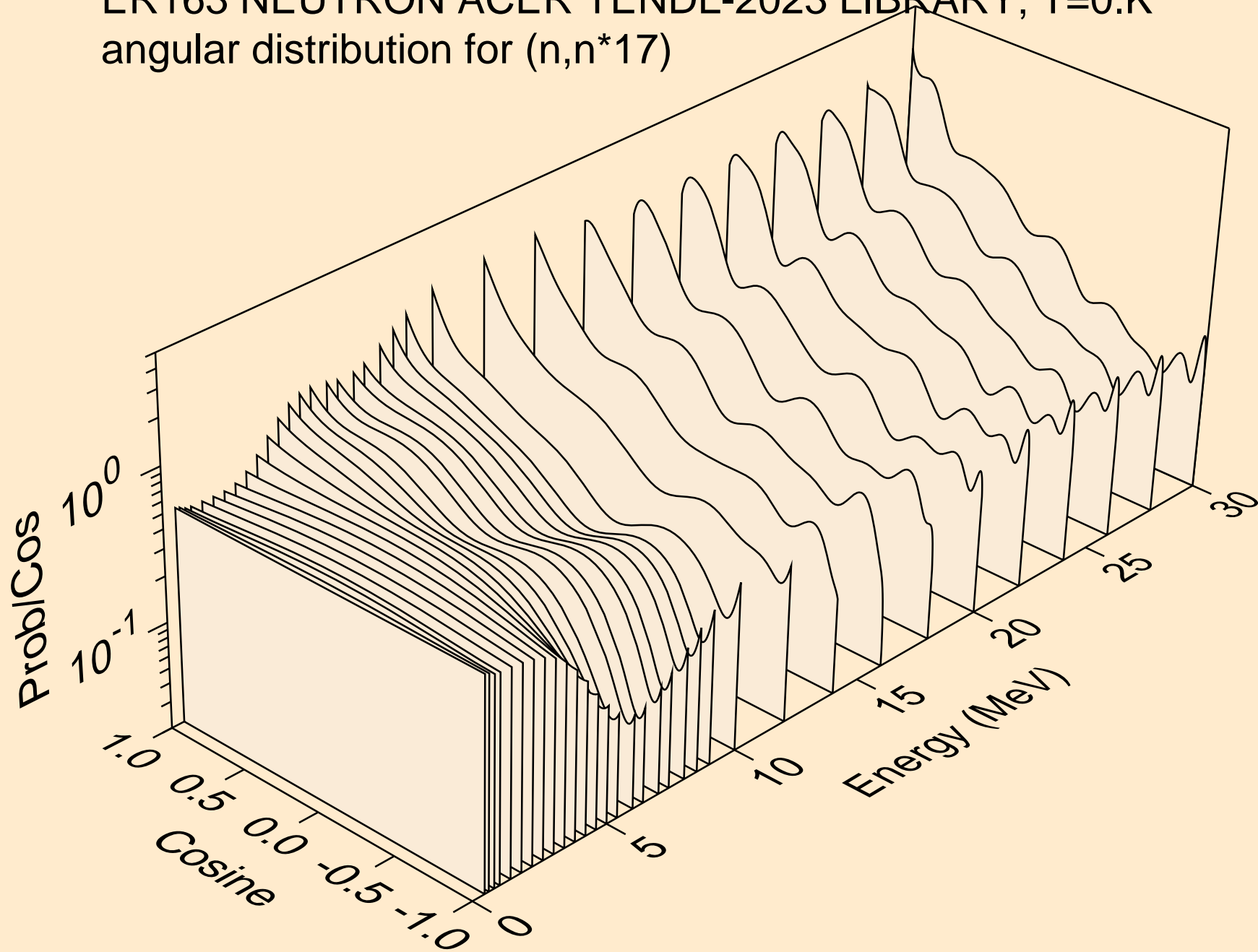
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*15)



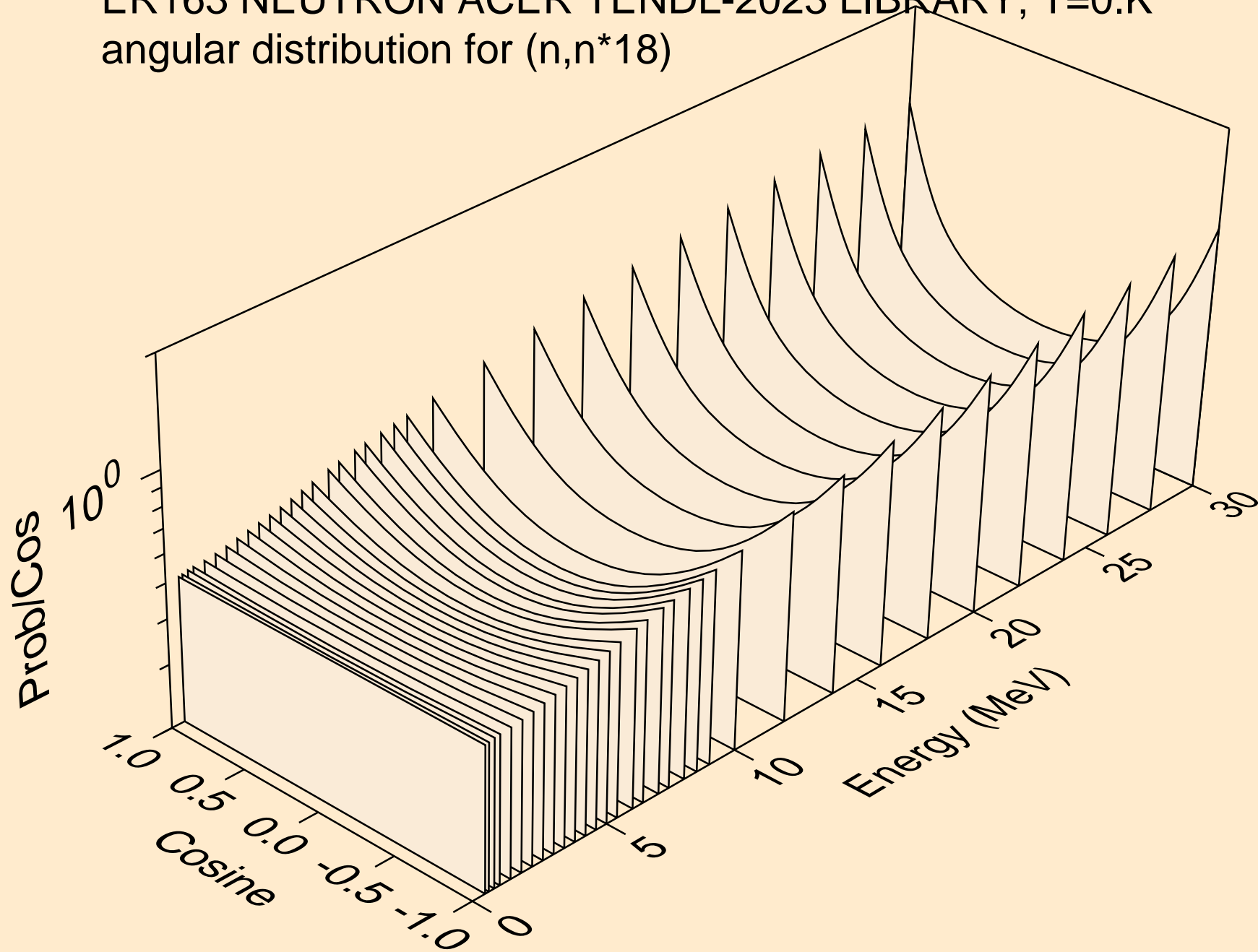
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*16)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*17)

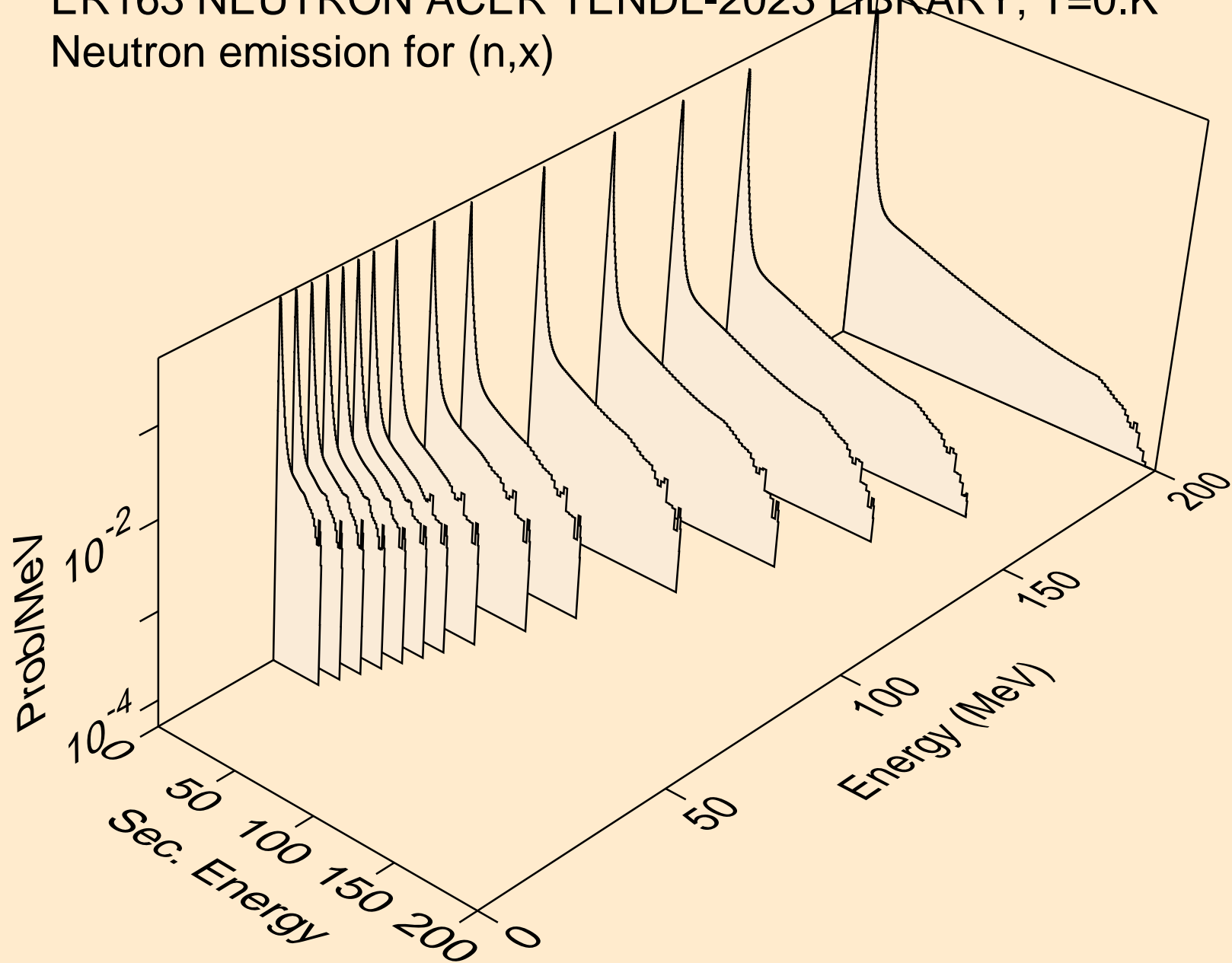


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
angular distribution for (n,n\*18)

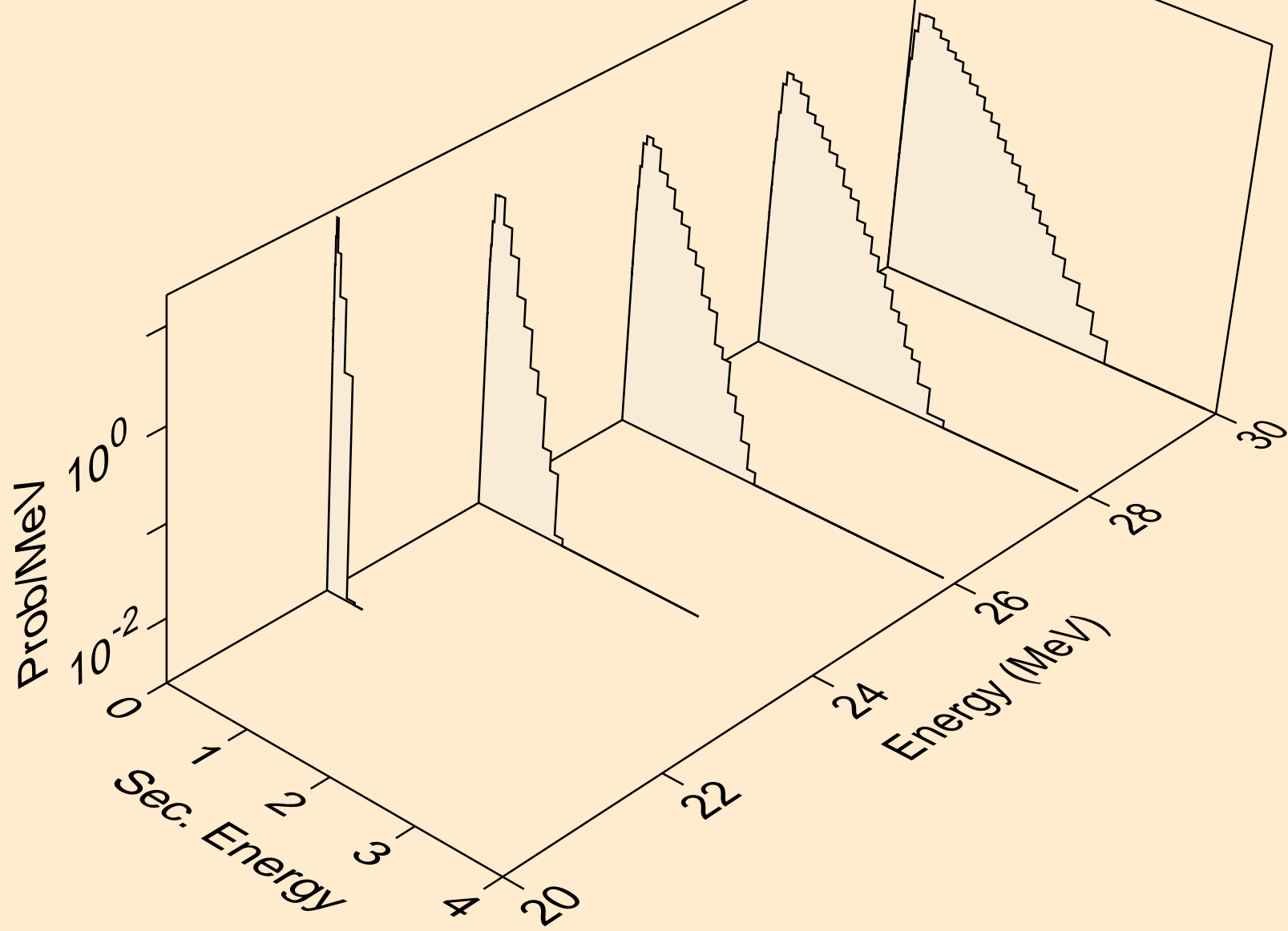




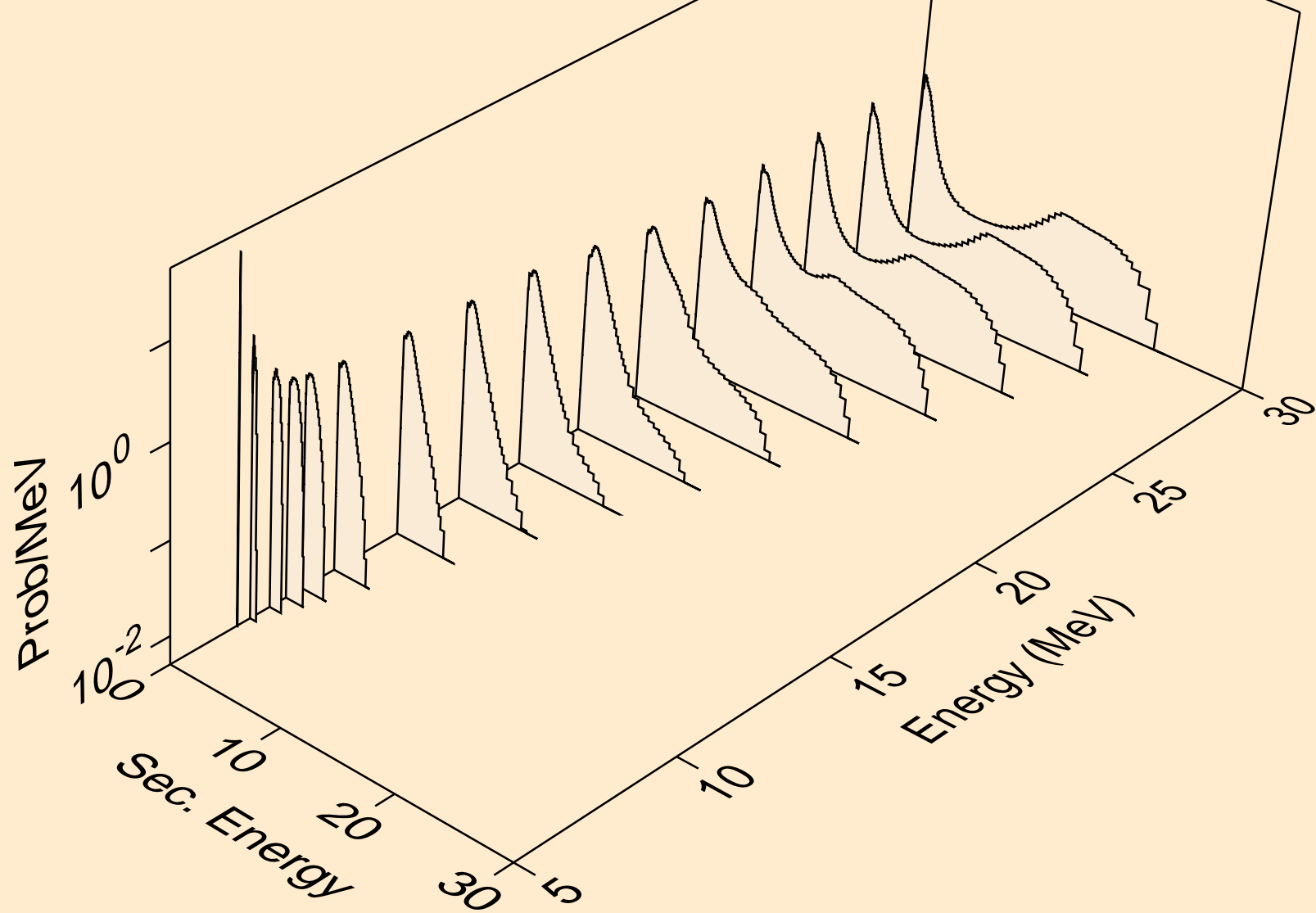
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,x)



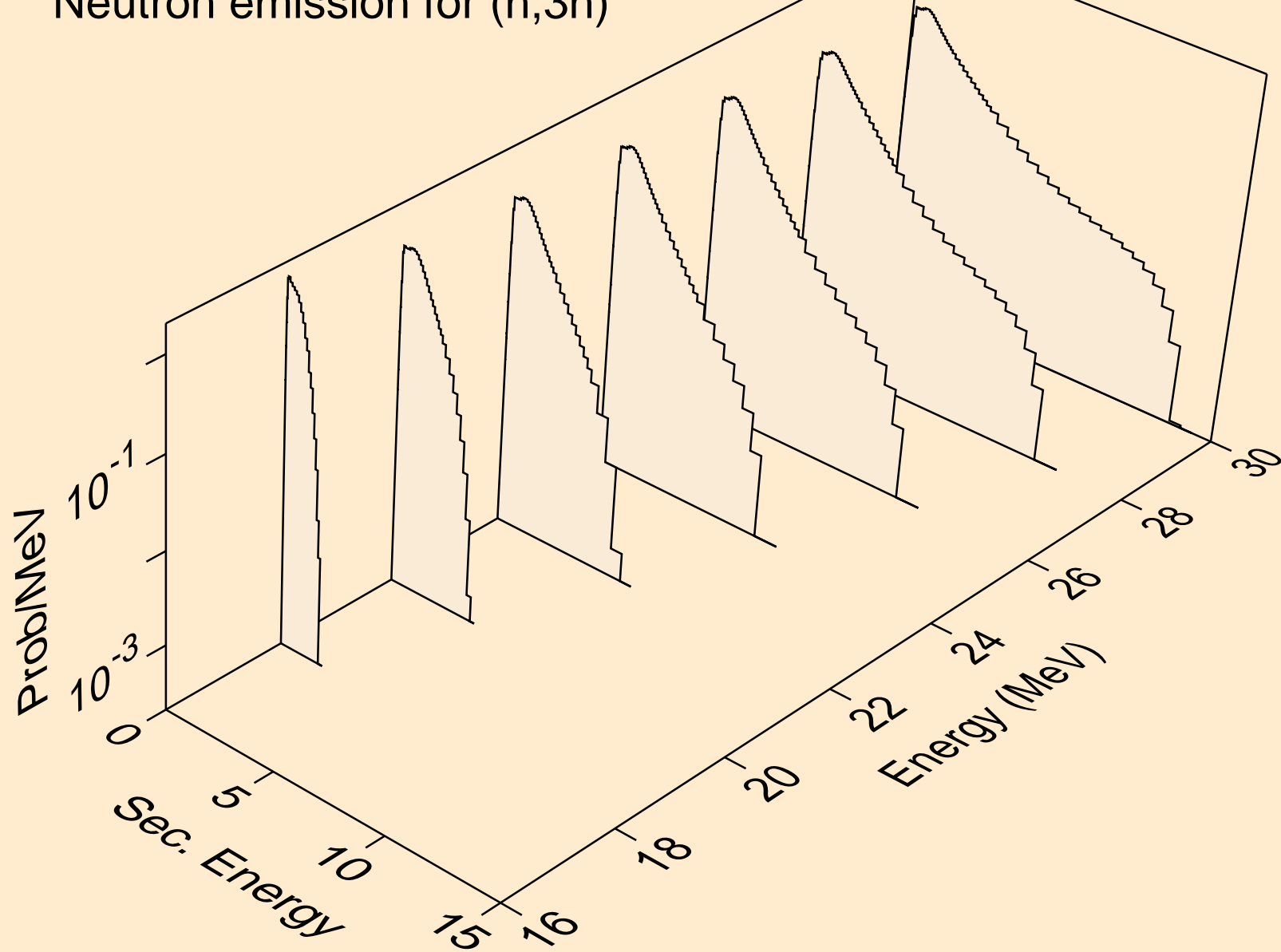
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2nd)



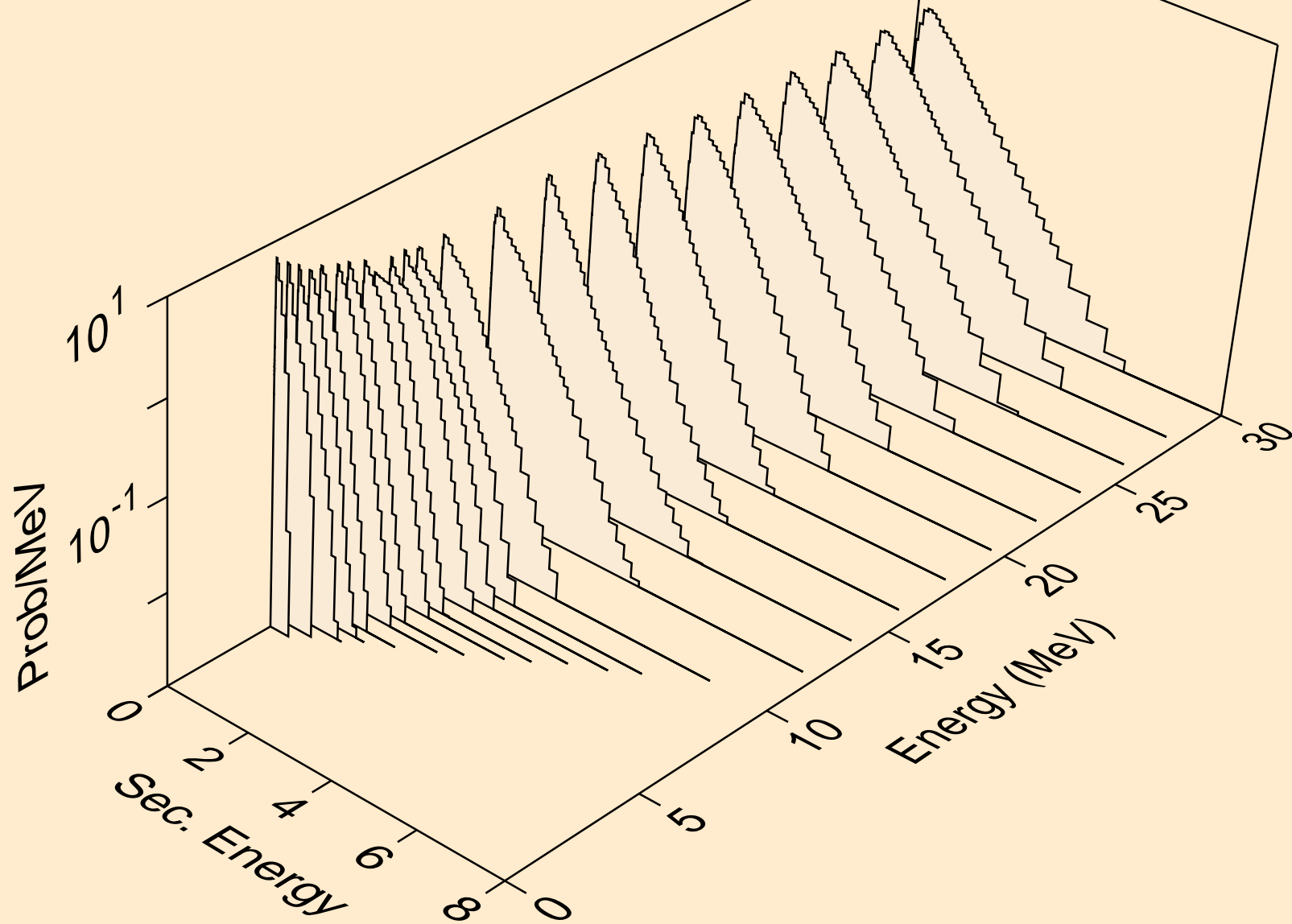
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)



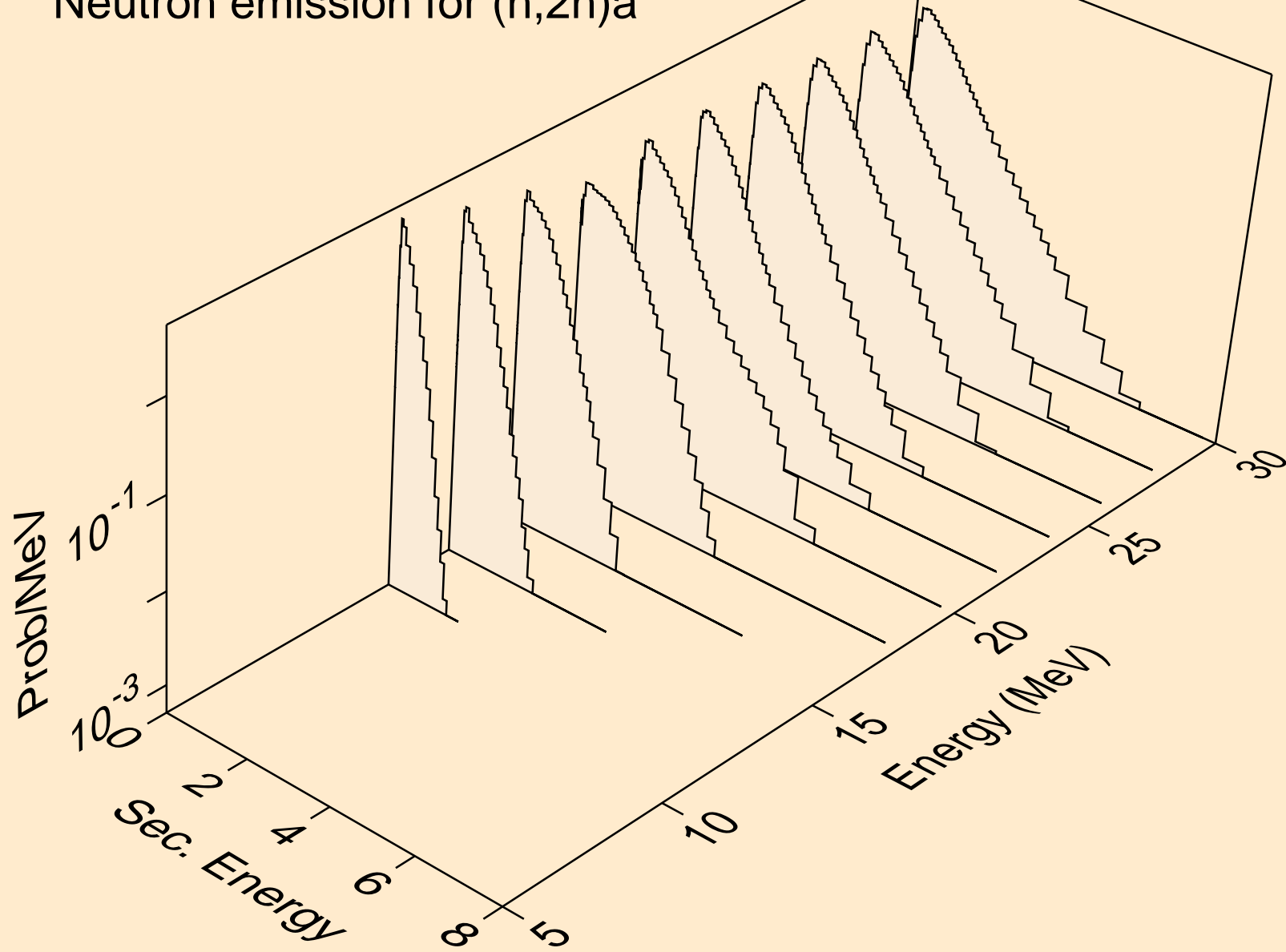
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)



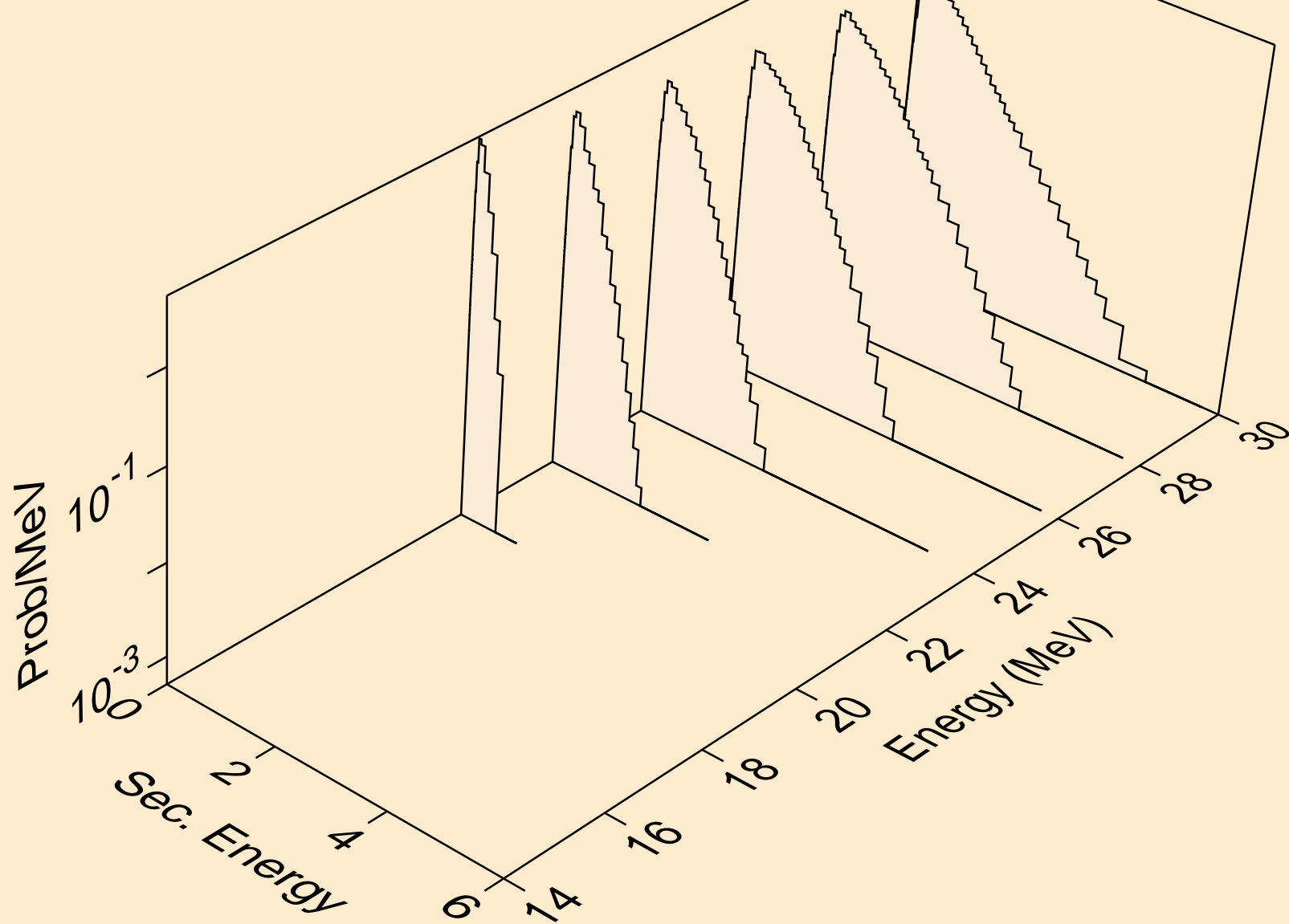
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)a



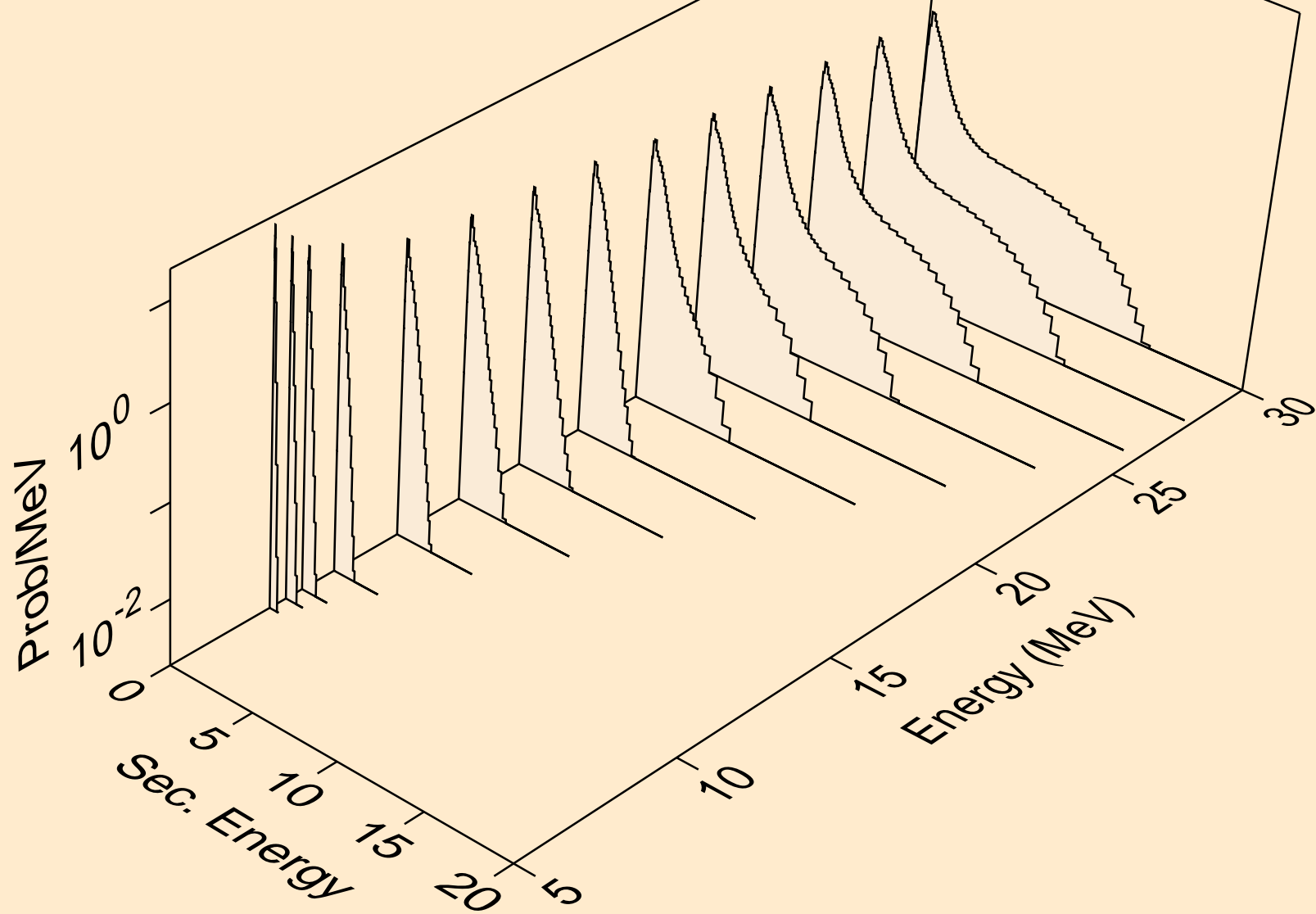
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2n)a



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3n)a

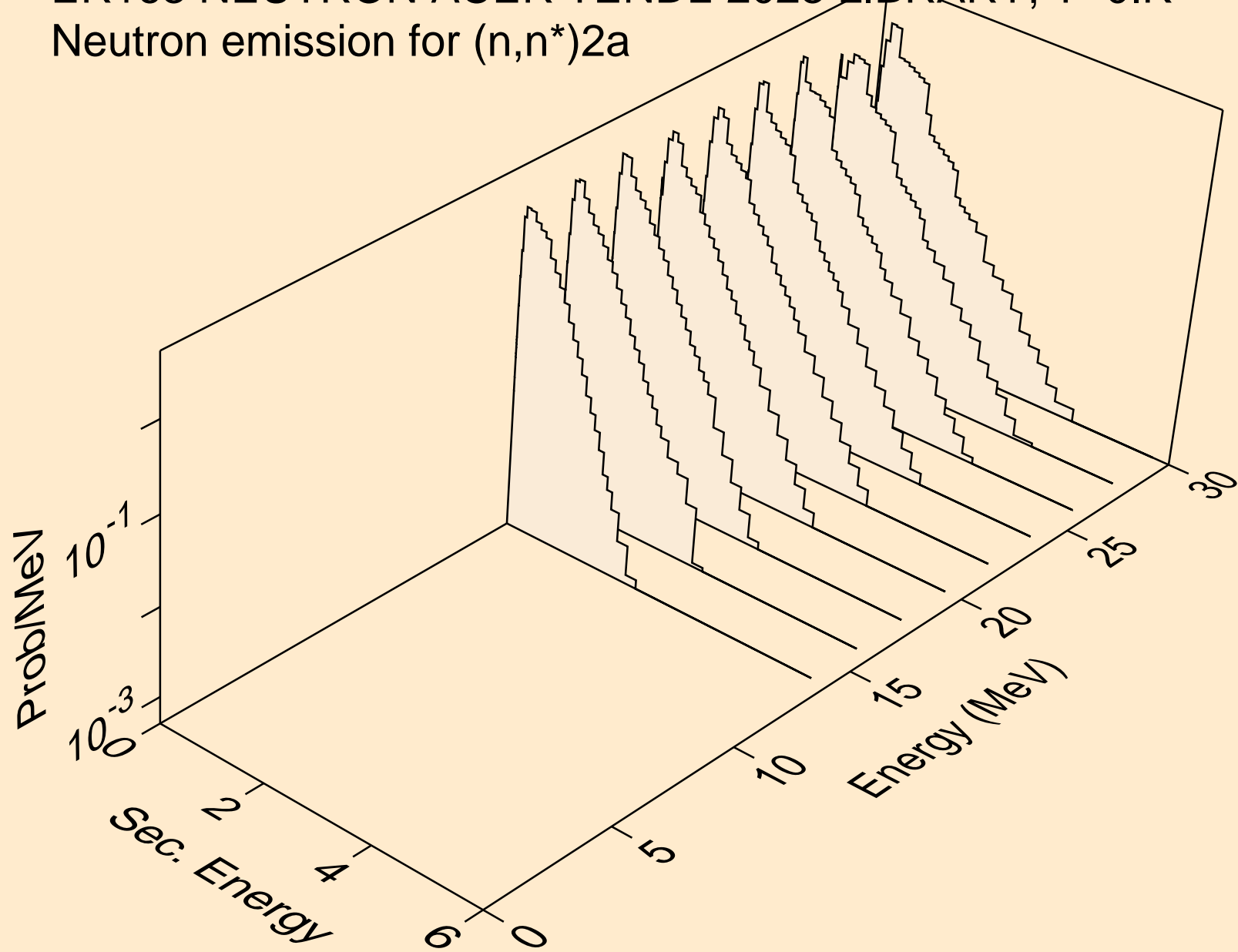


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)p

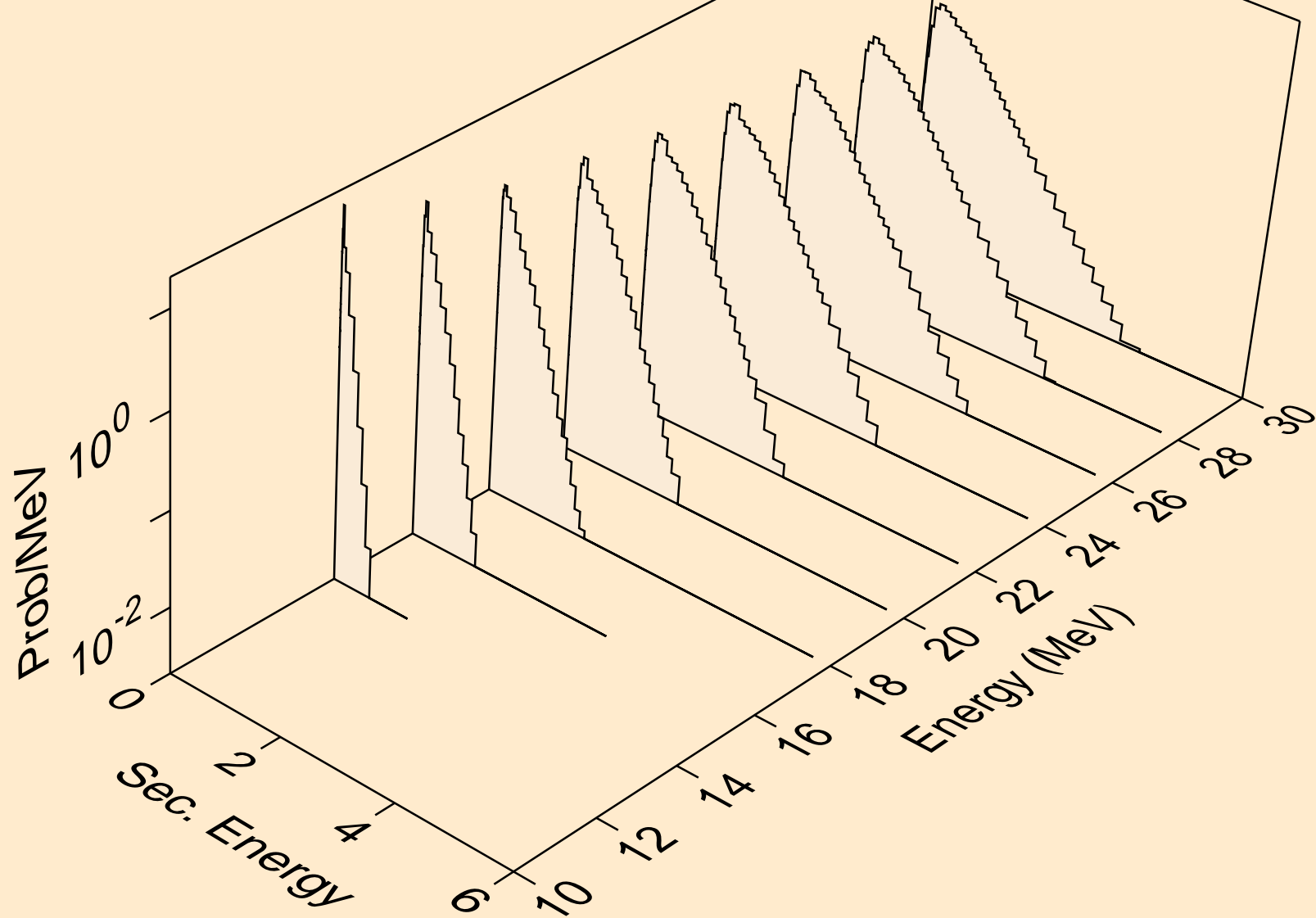




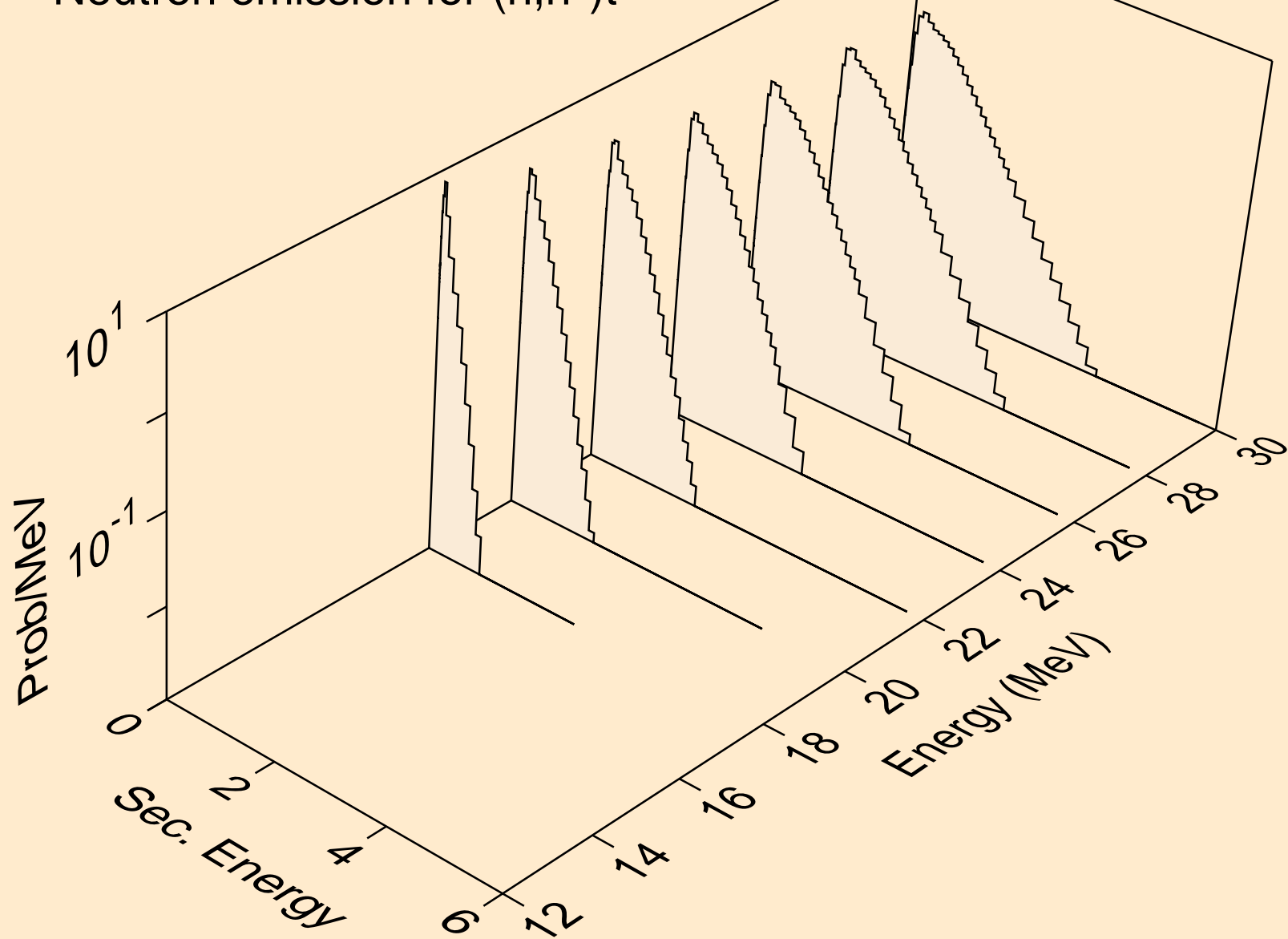
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)2a



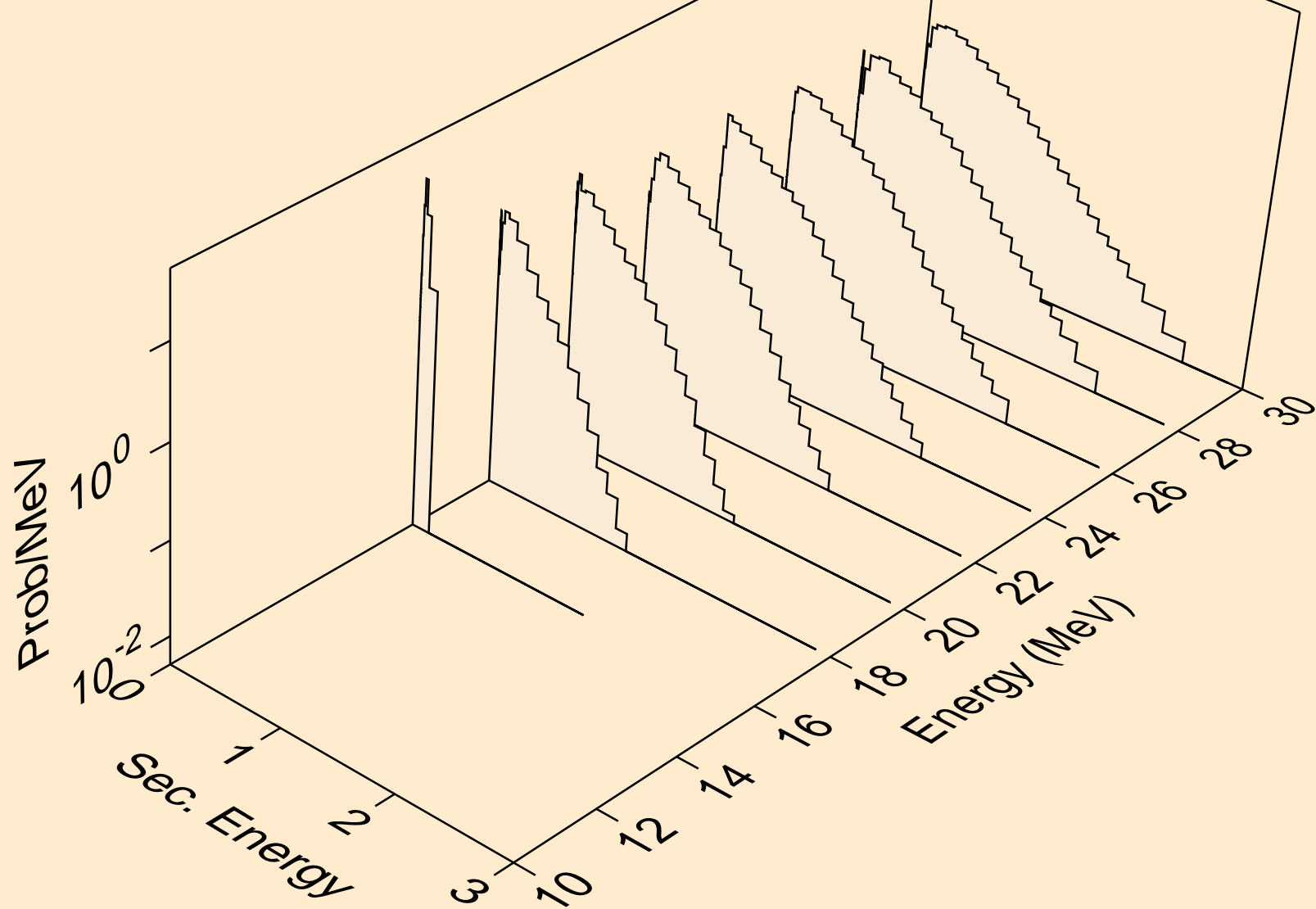
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)d



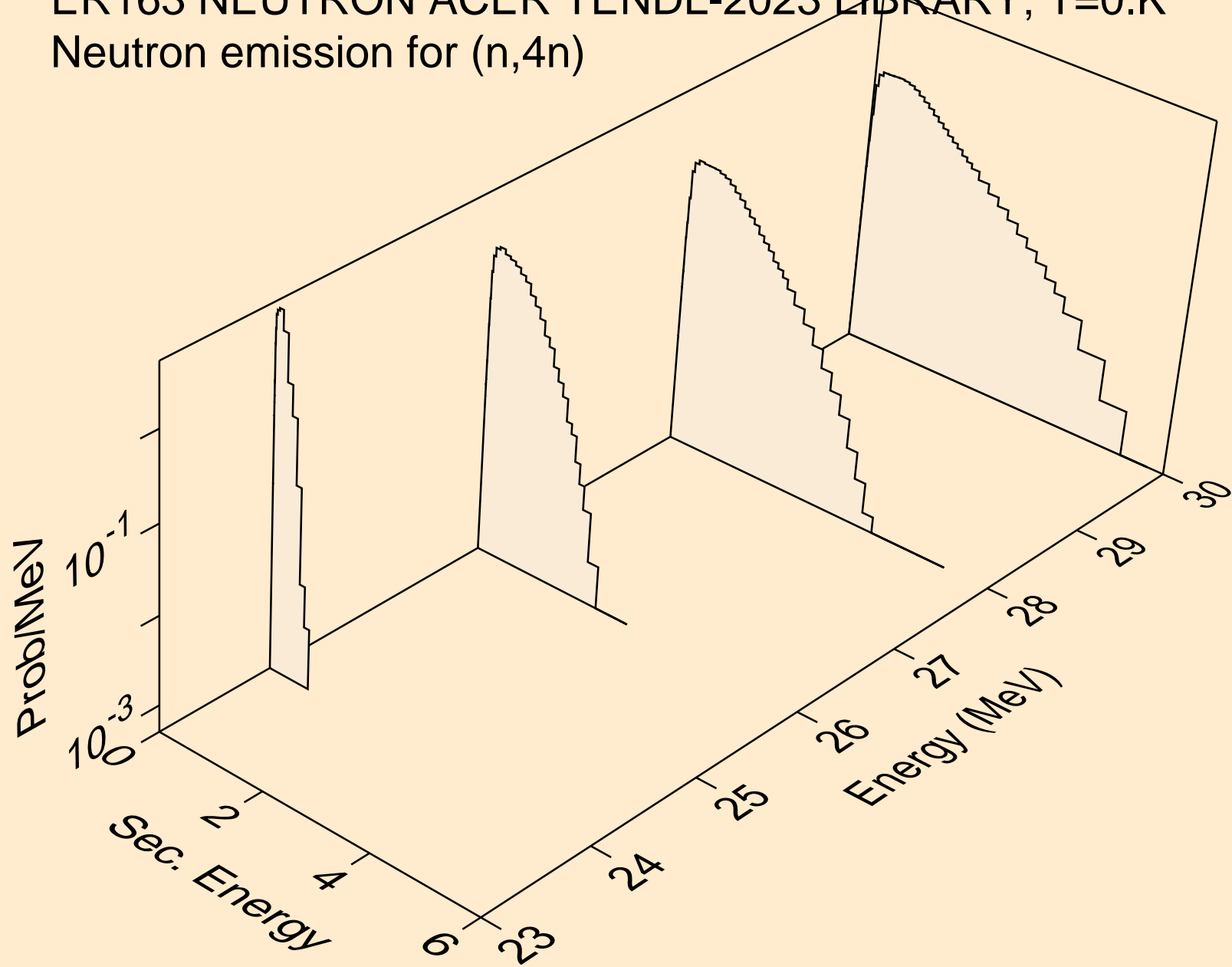
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)t



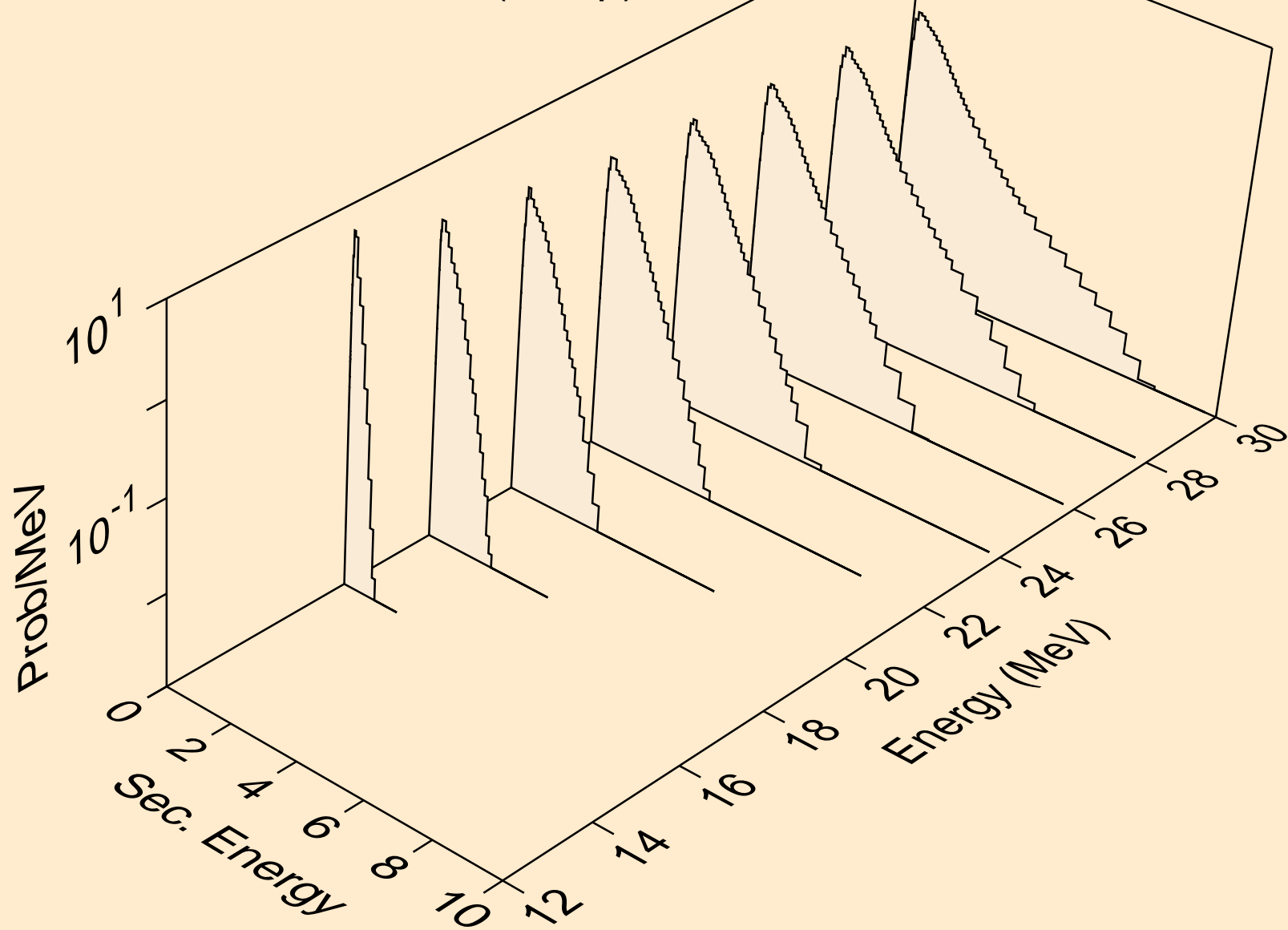
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*)he3



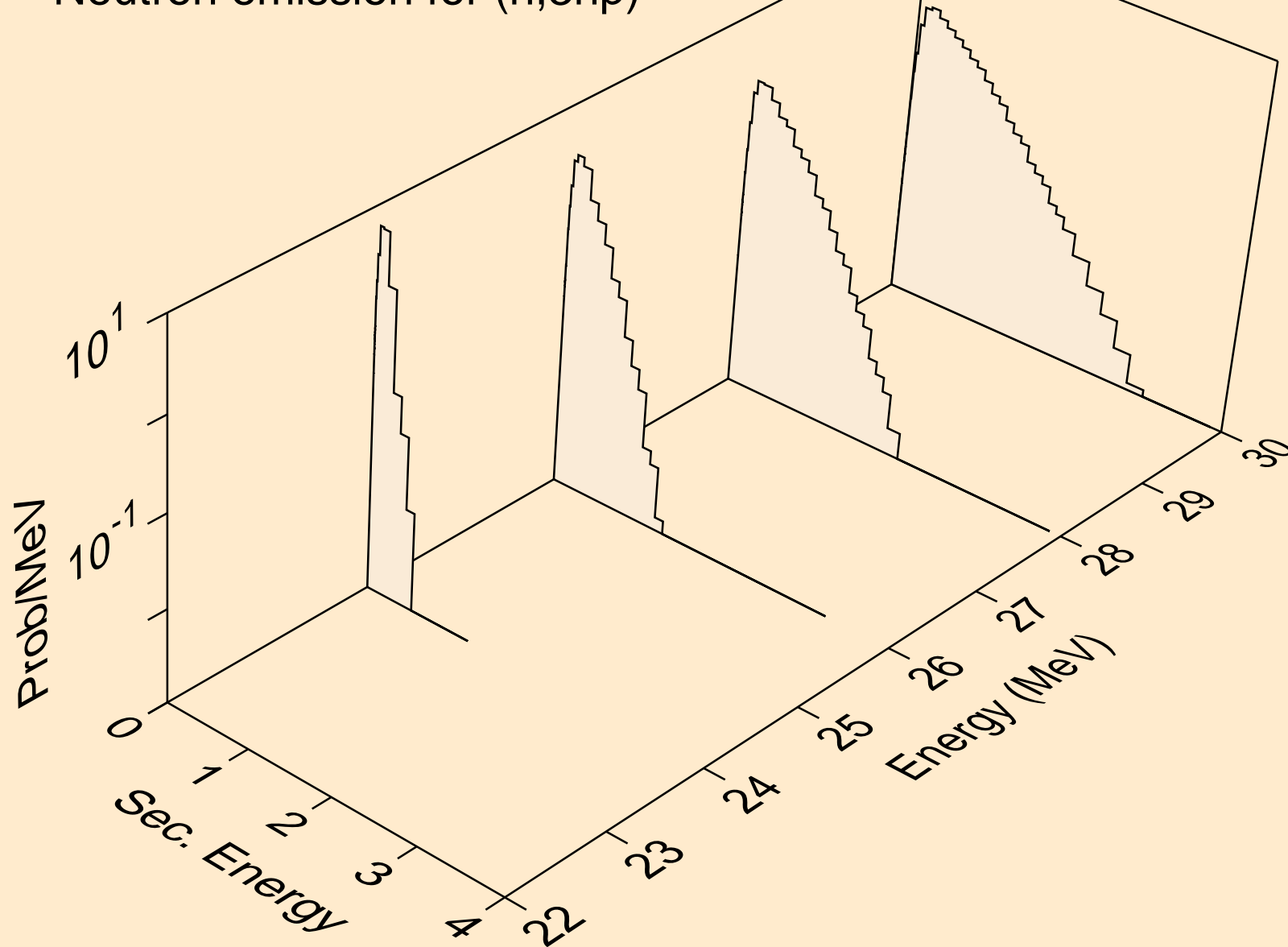
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,4n)



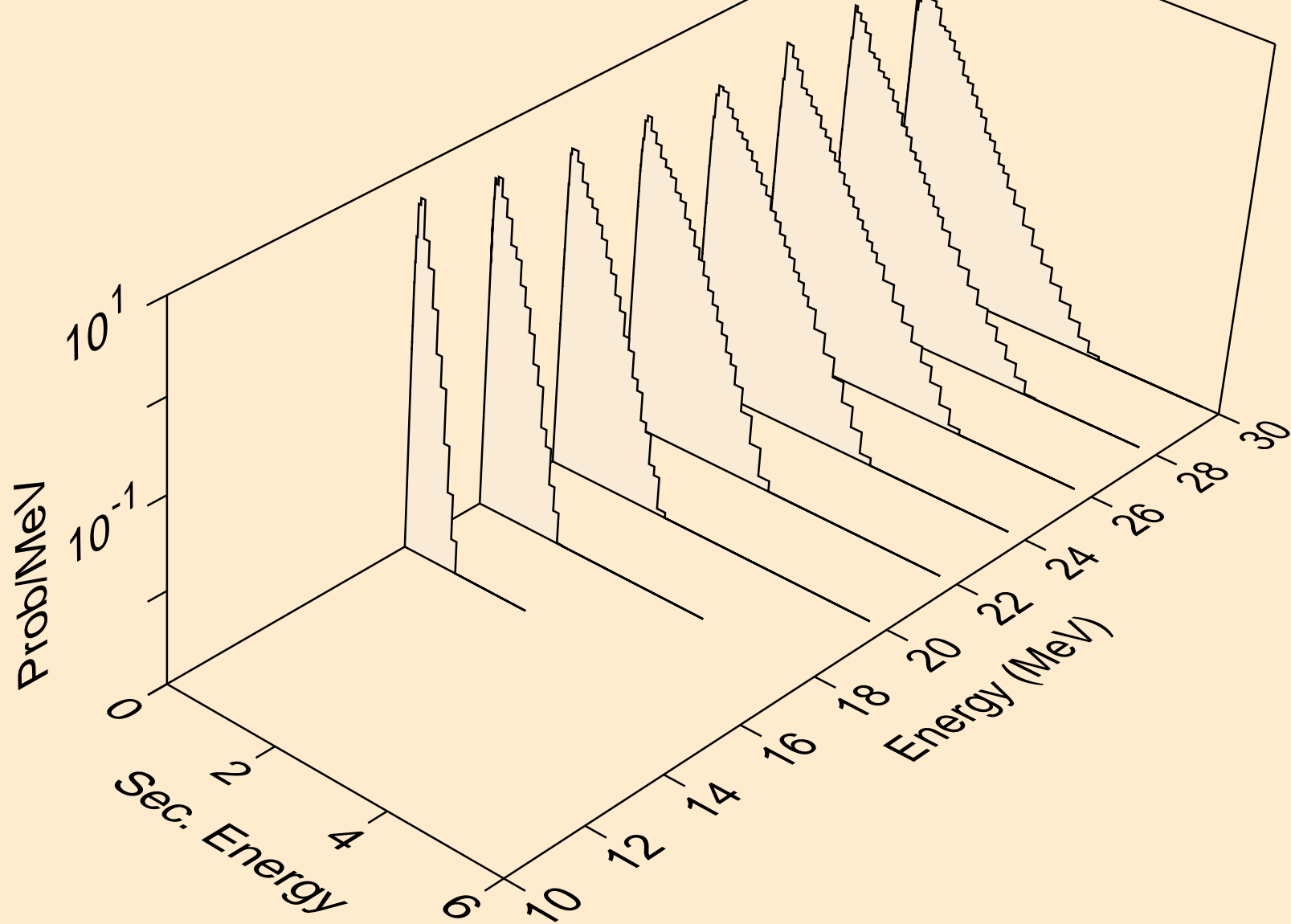
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,2np)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,3np)

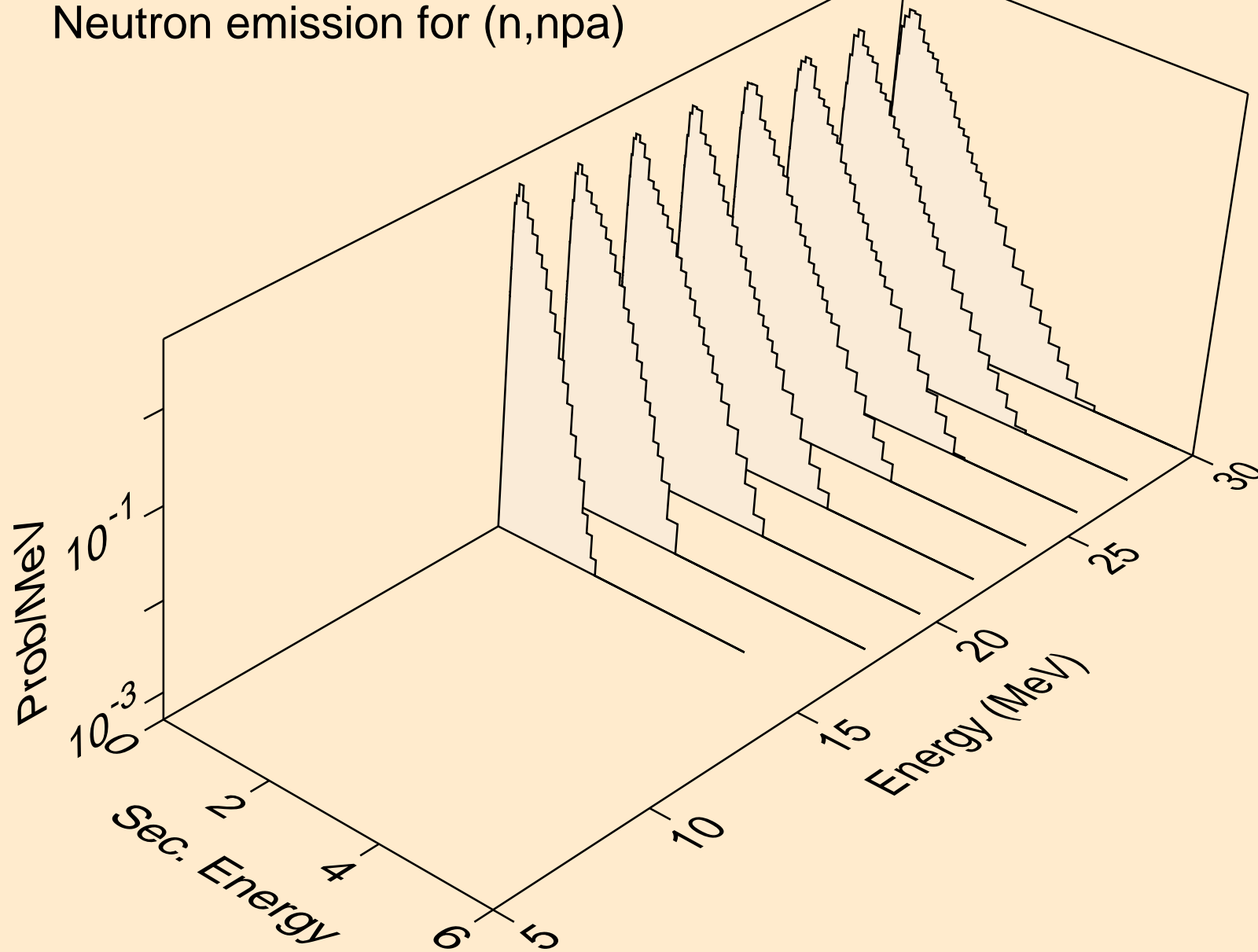


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n2p)

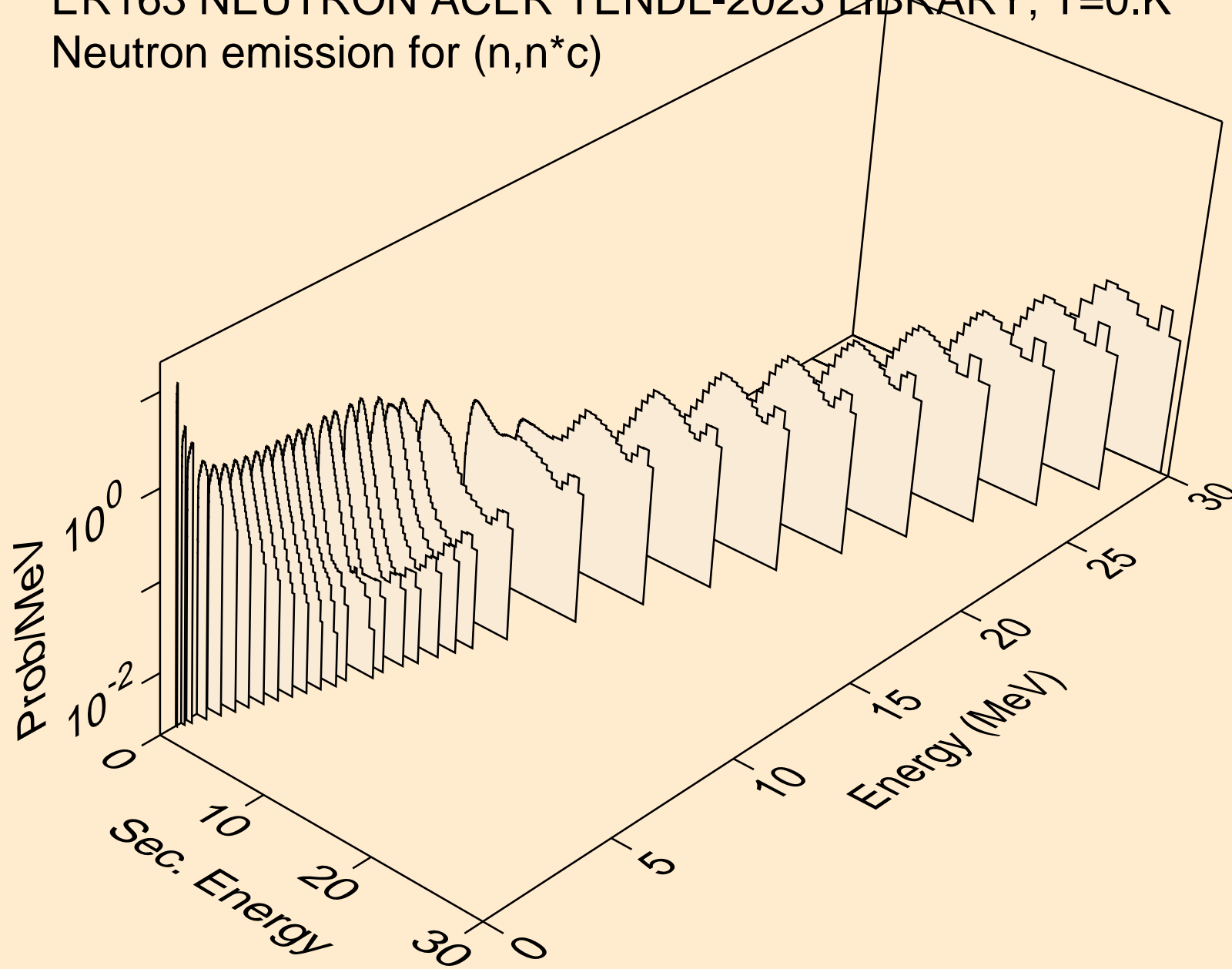




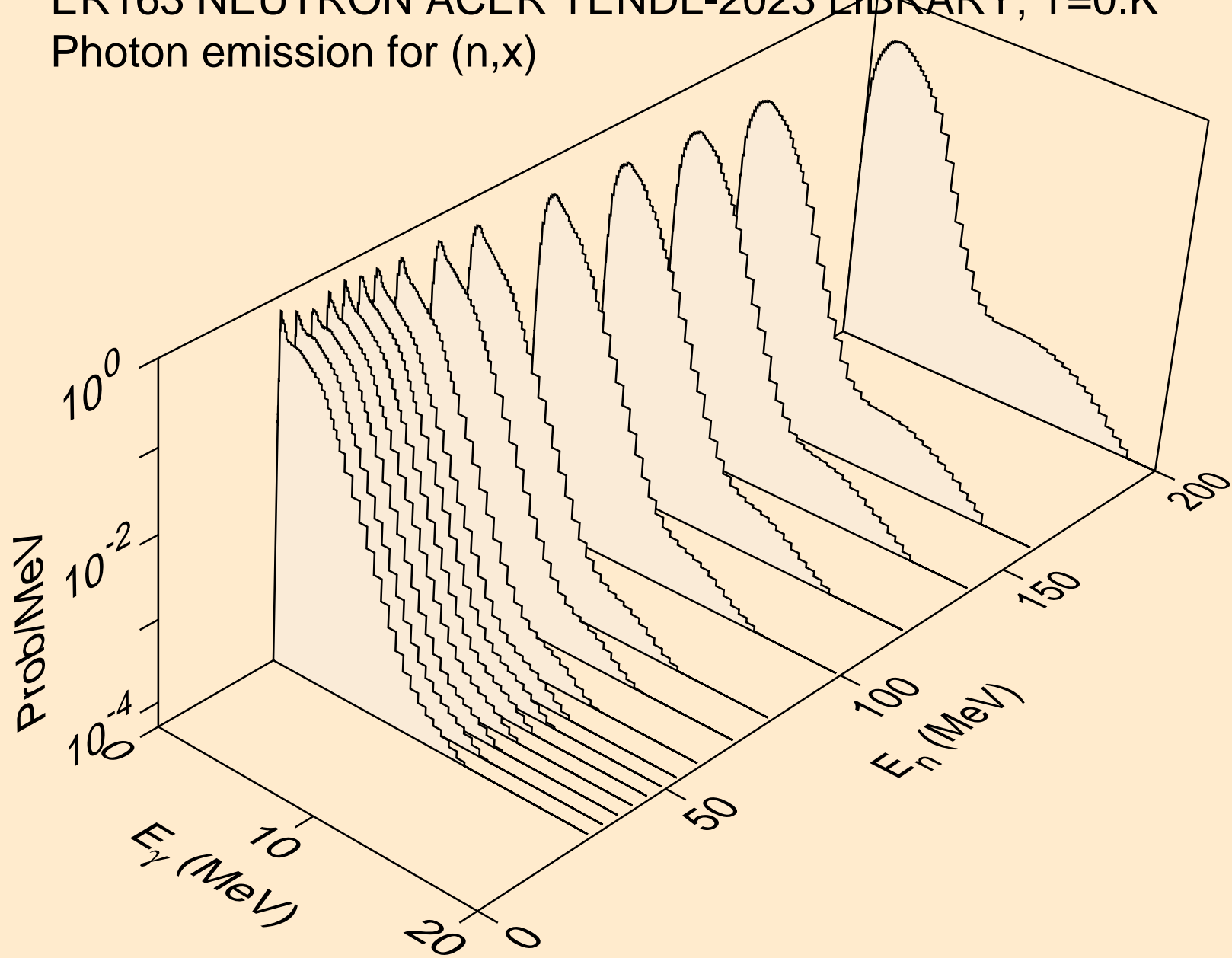
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,npa)



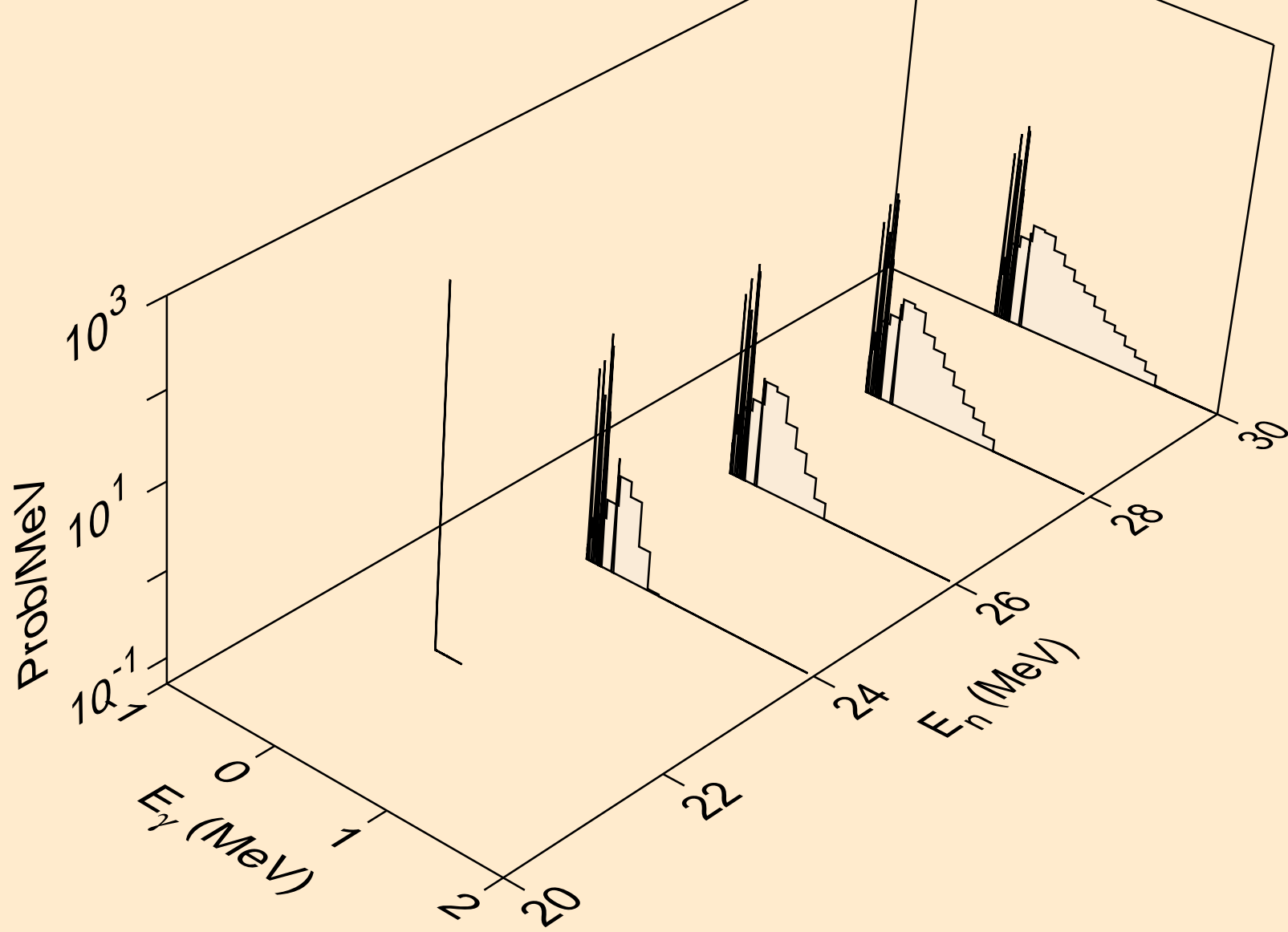
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Neutron emission for (n,n\*c)



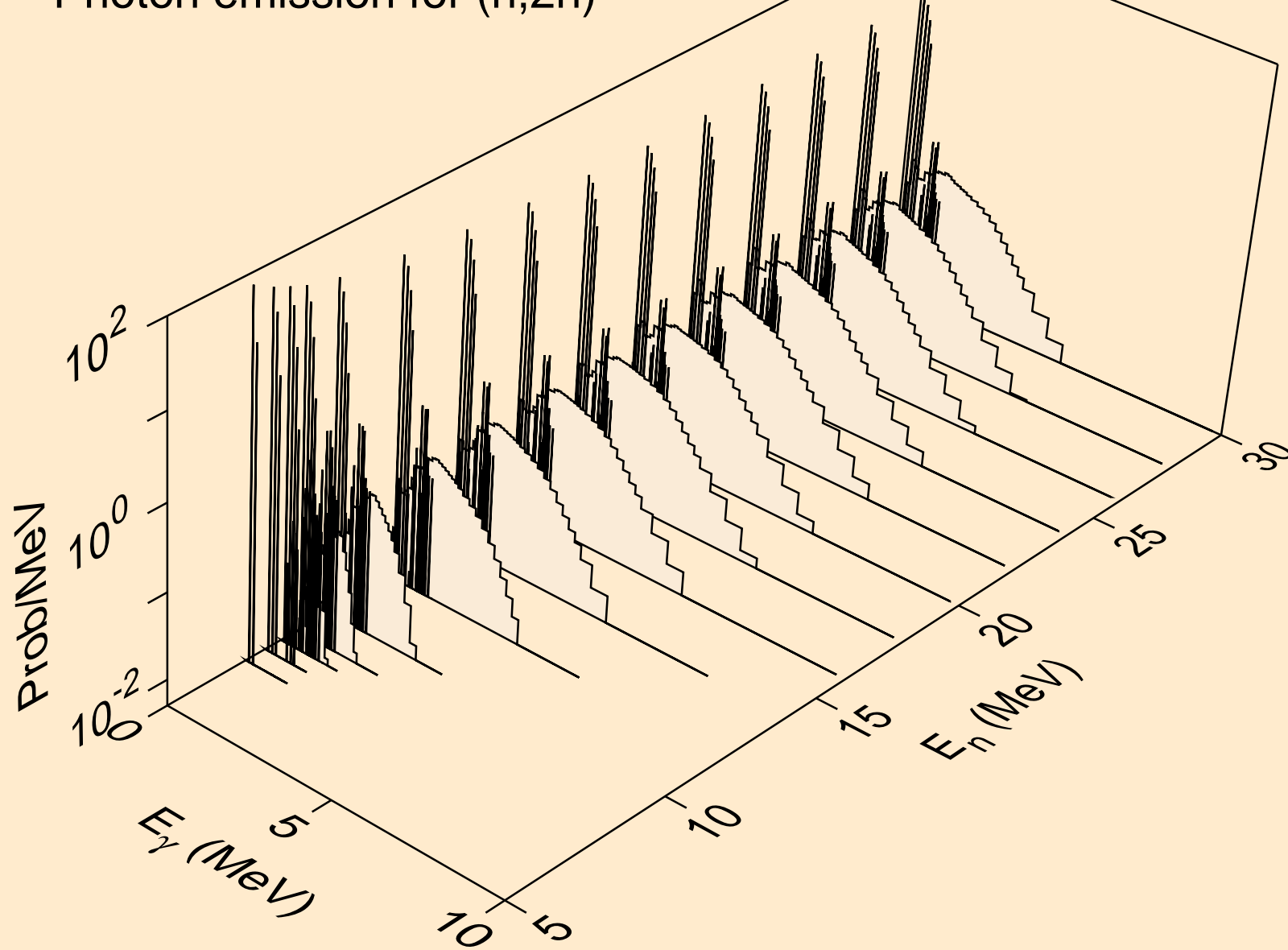
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,x)



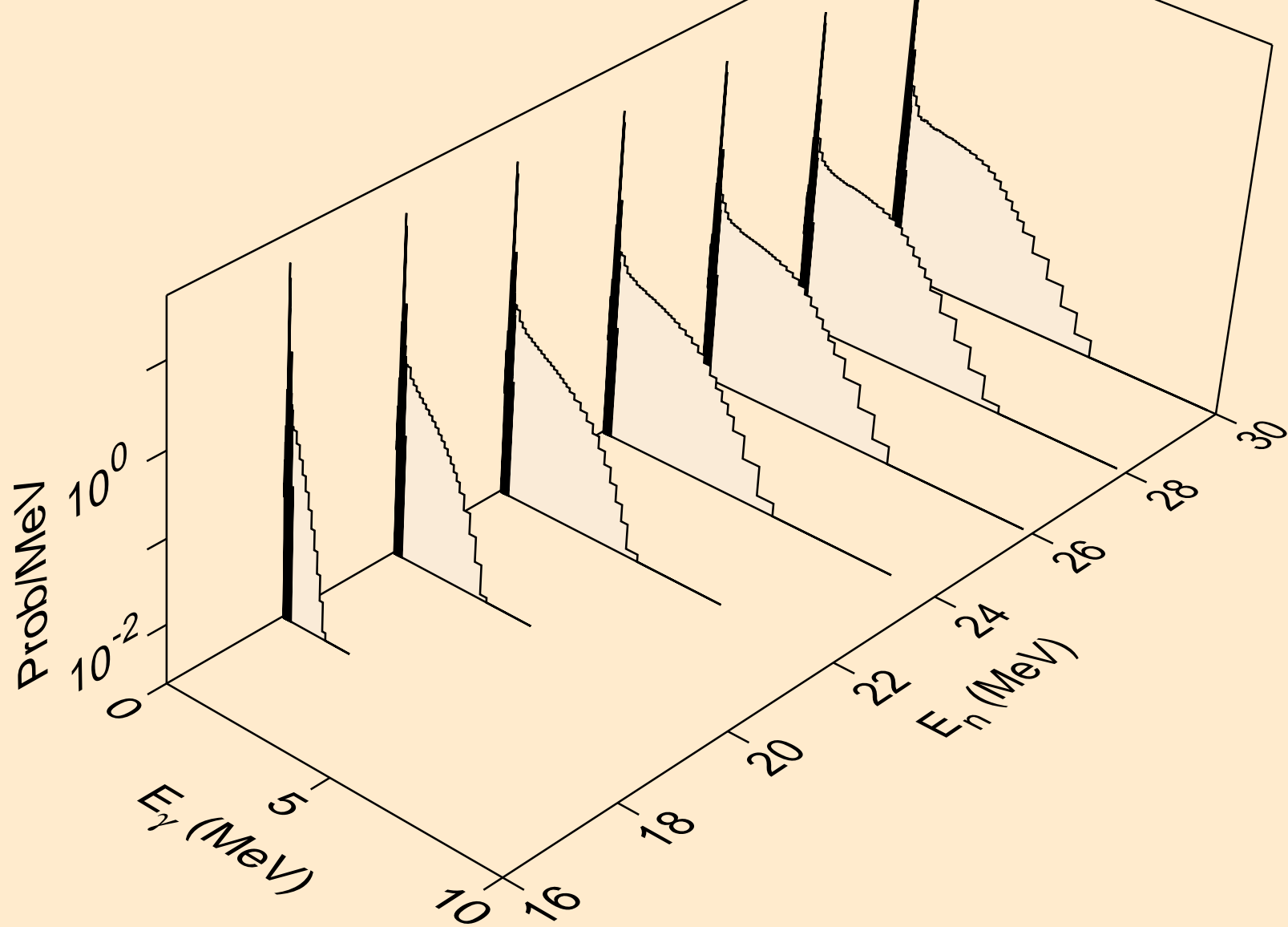
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2nd)



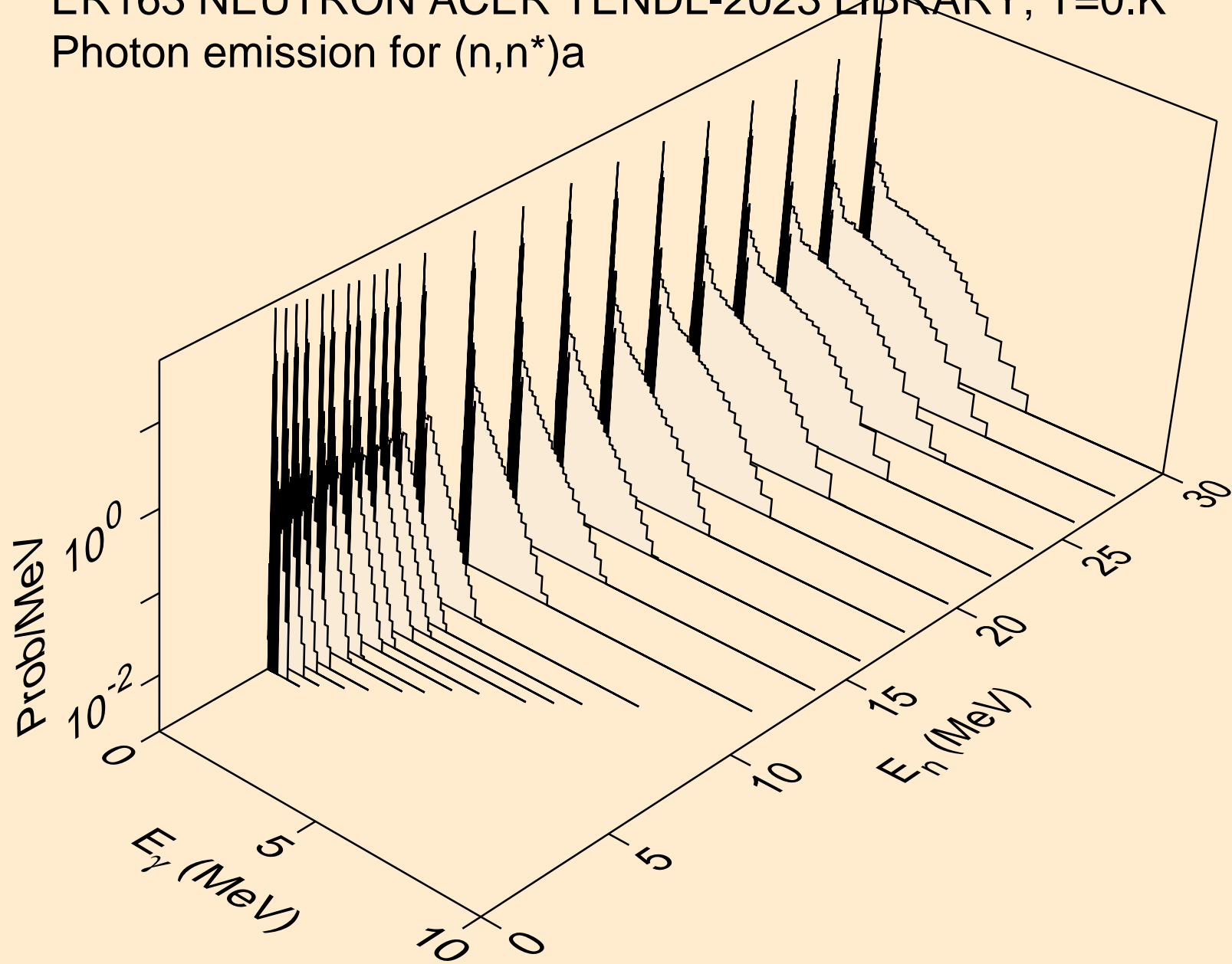
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)



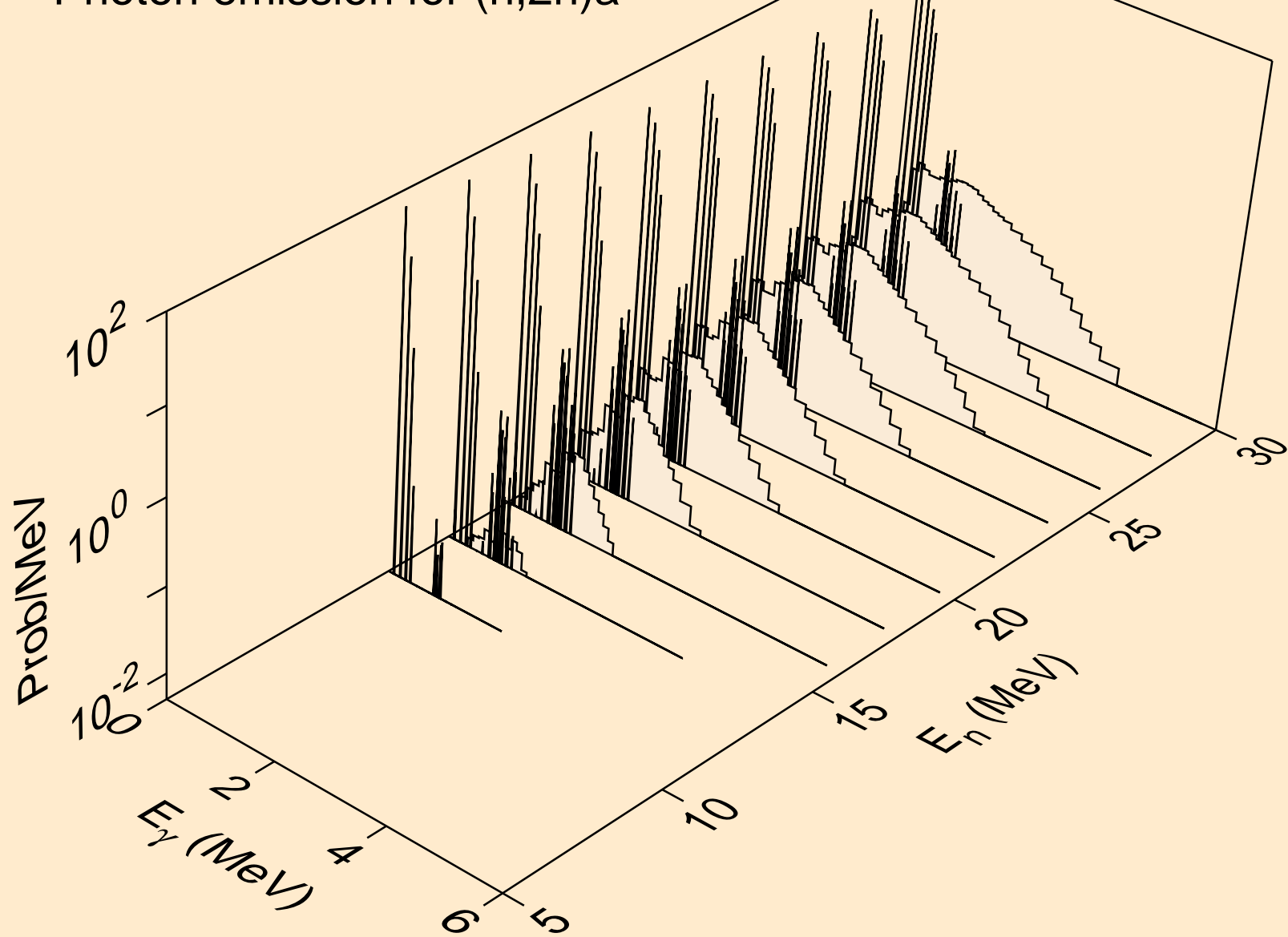
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)a

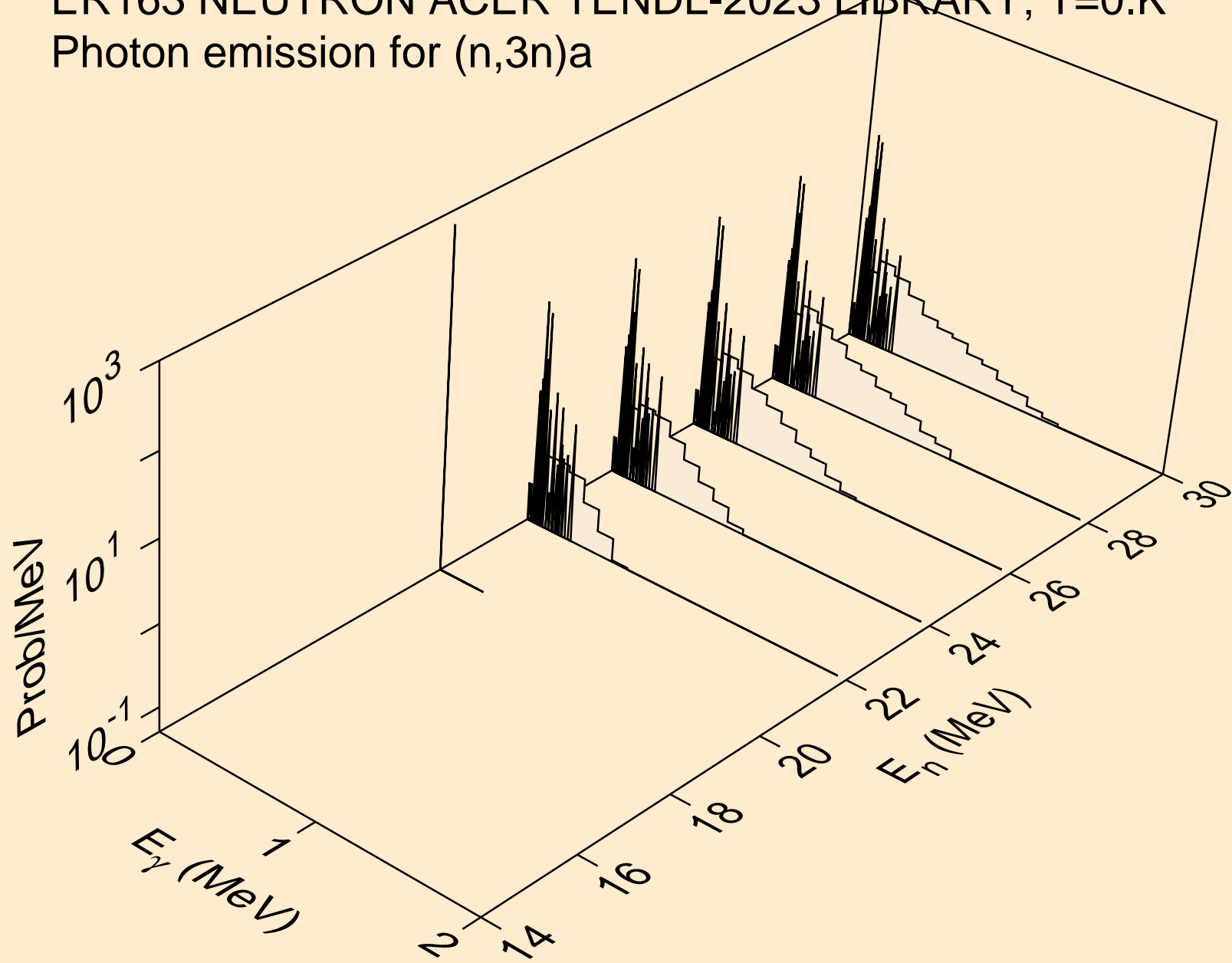


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2n)a

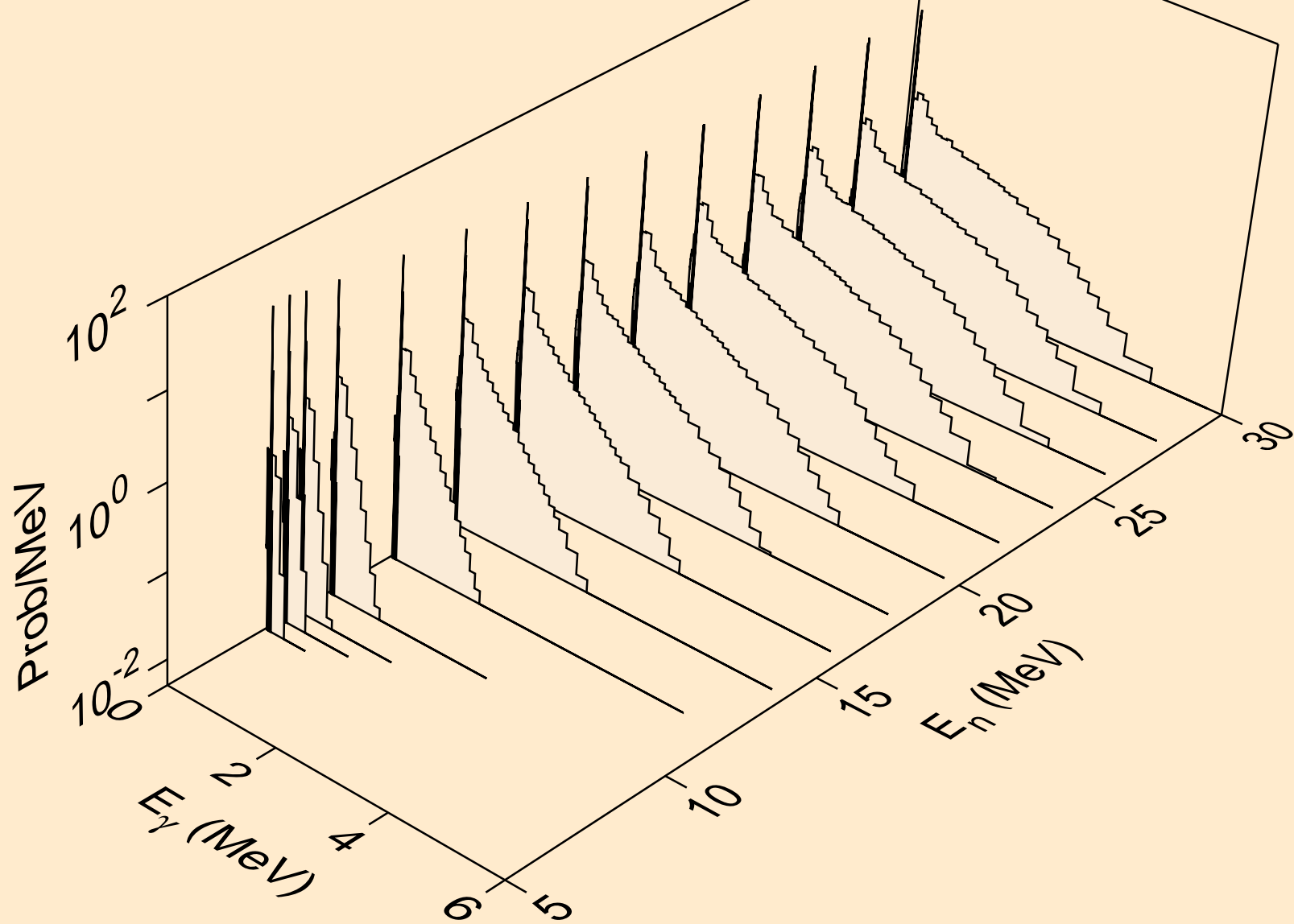




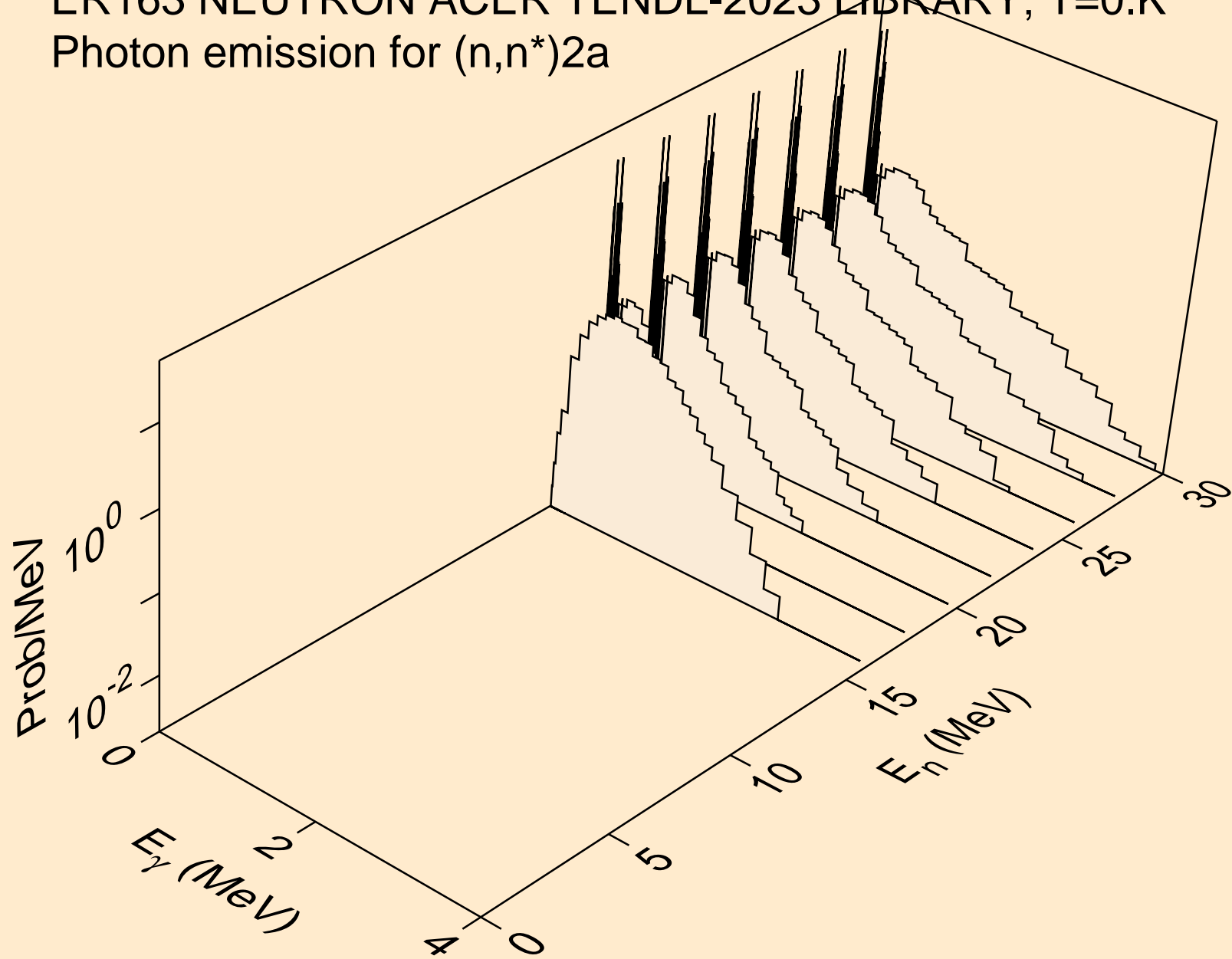
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3n)a



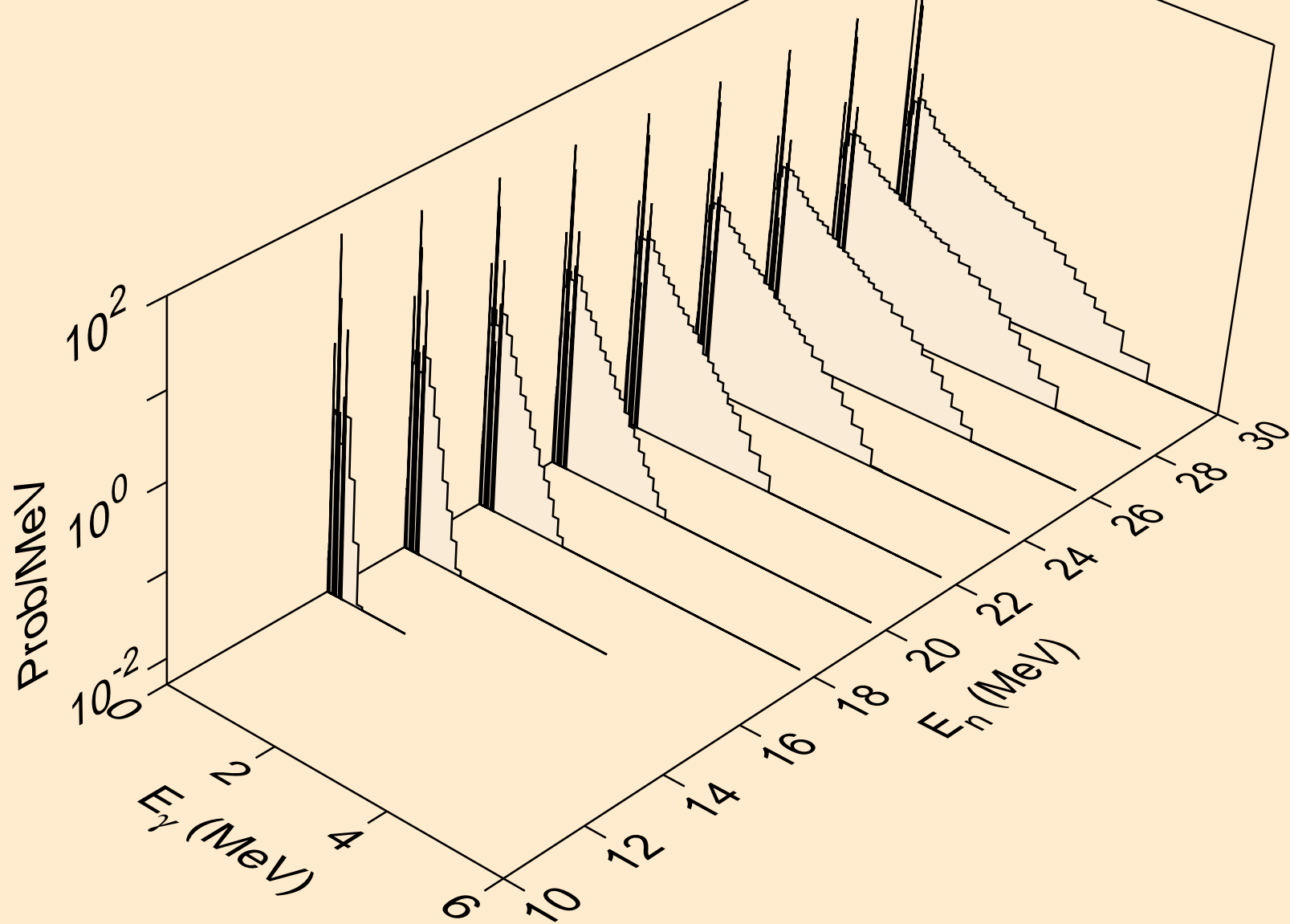
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)p



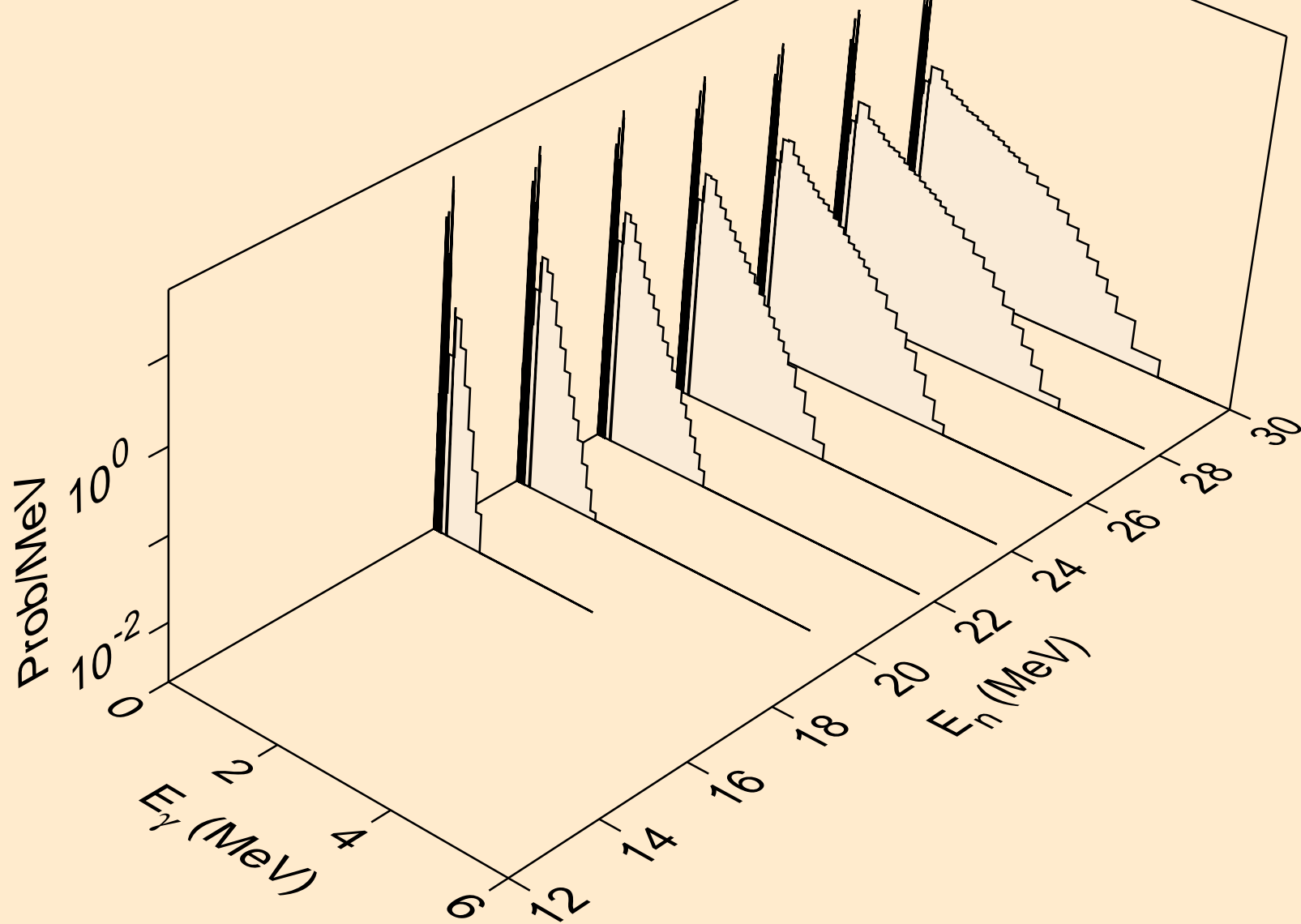
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)2a



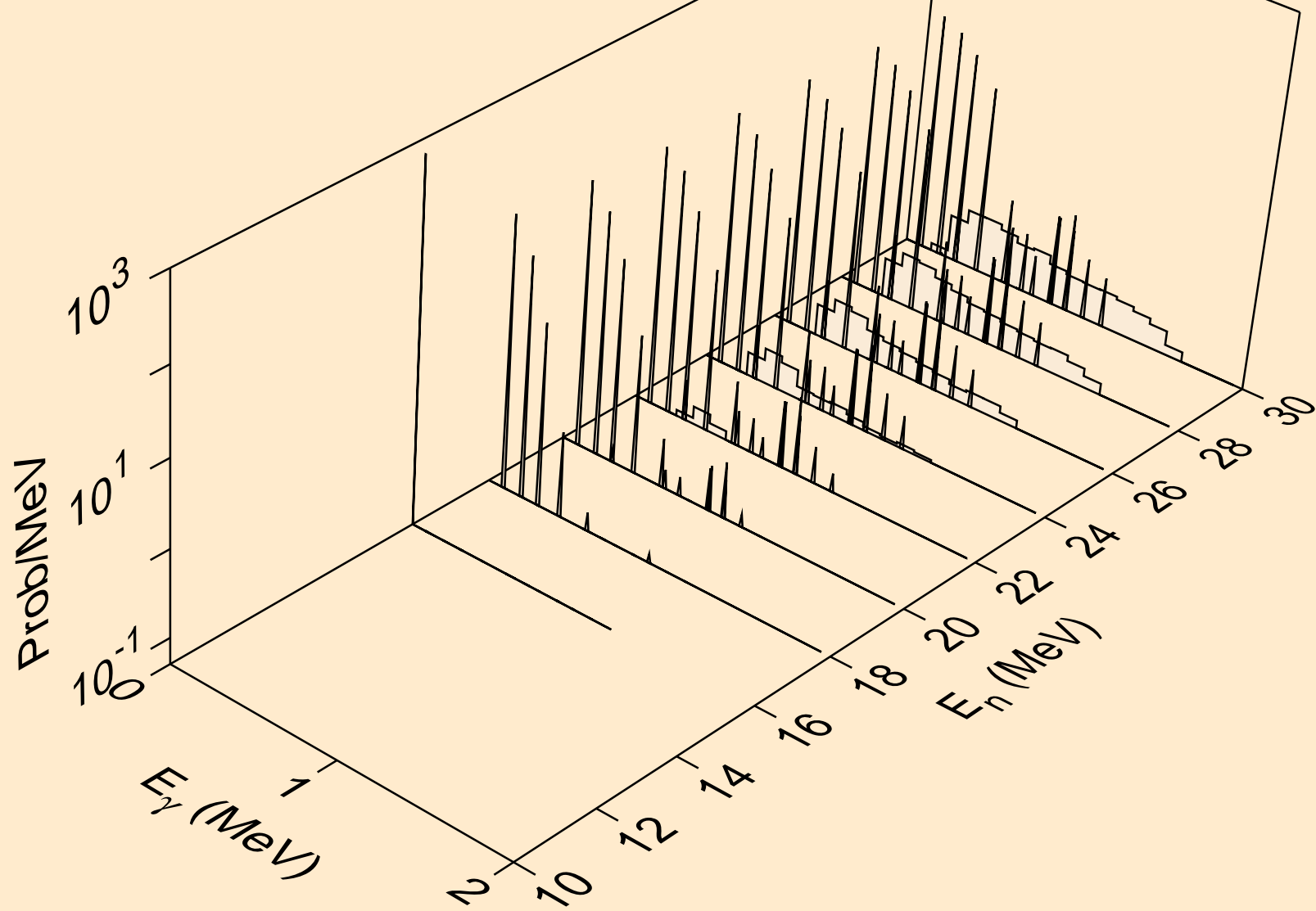
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)d



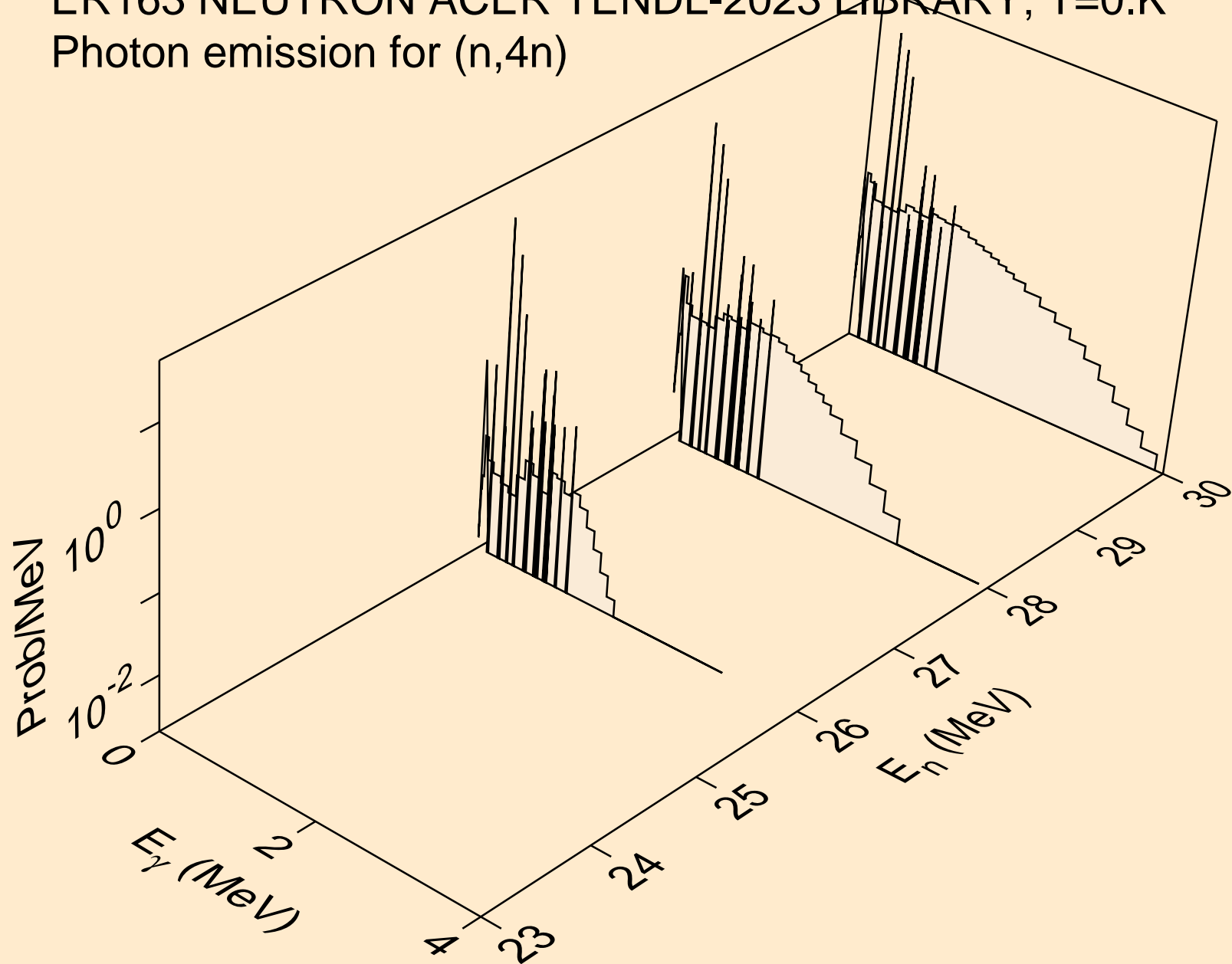
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)t



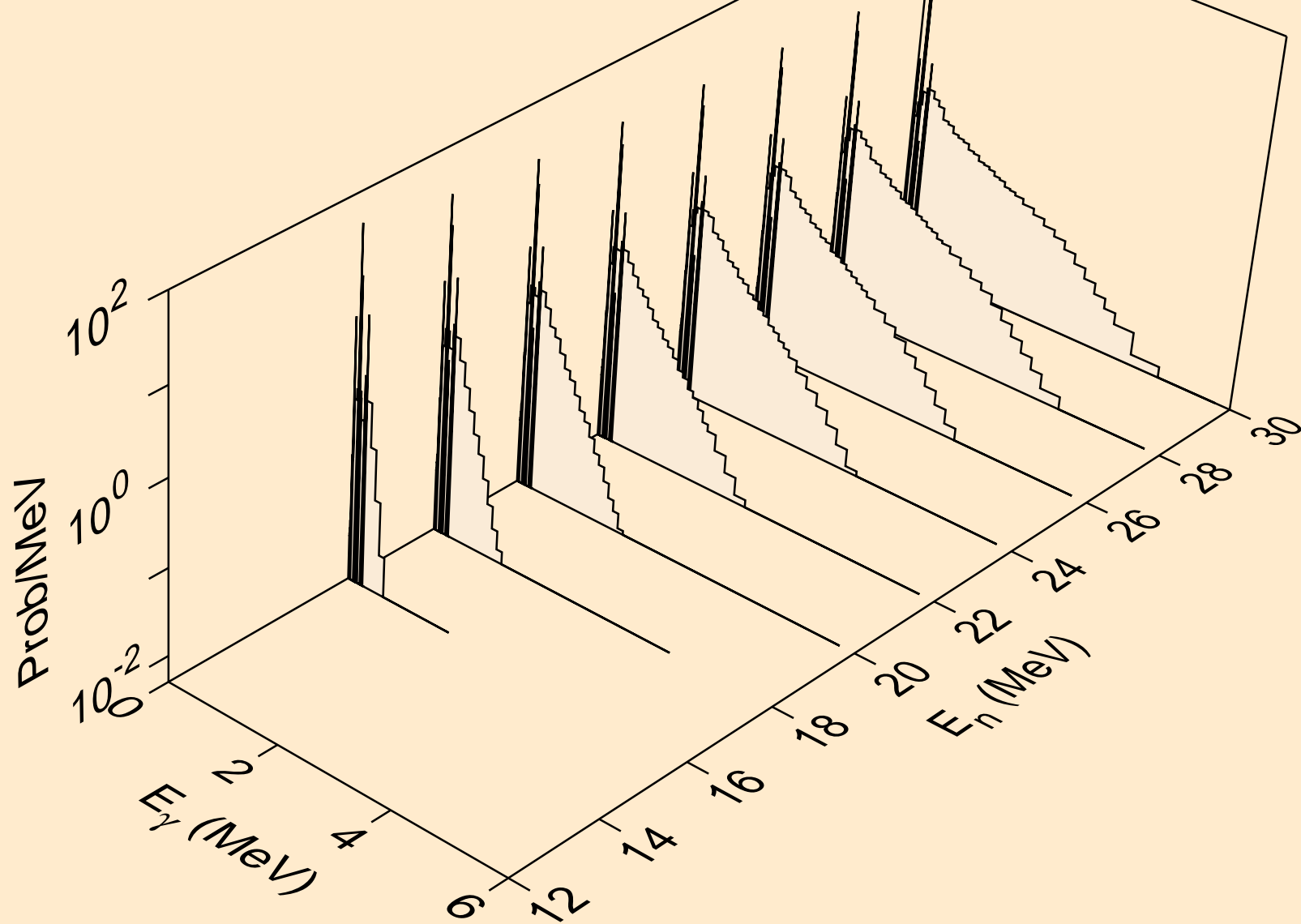
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*)he3



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,4n)

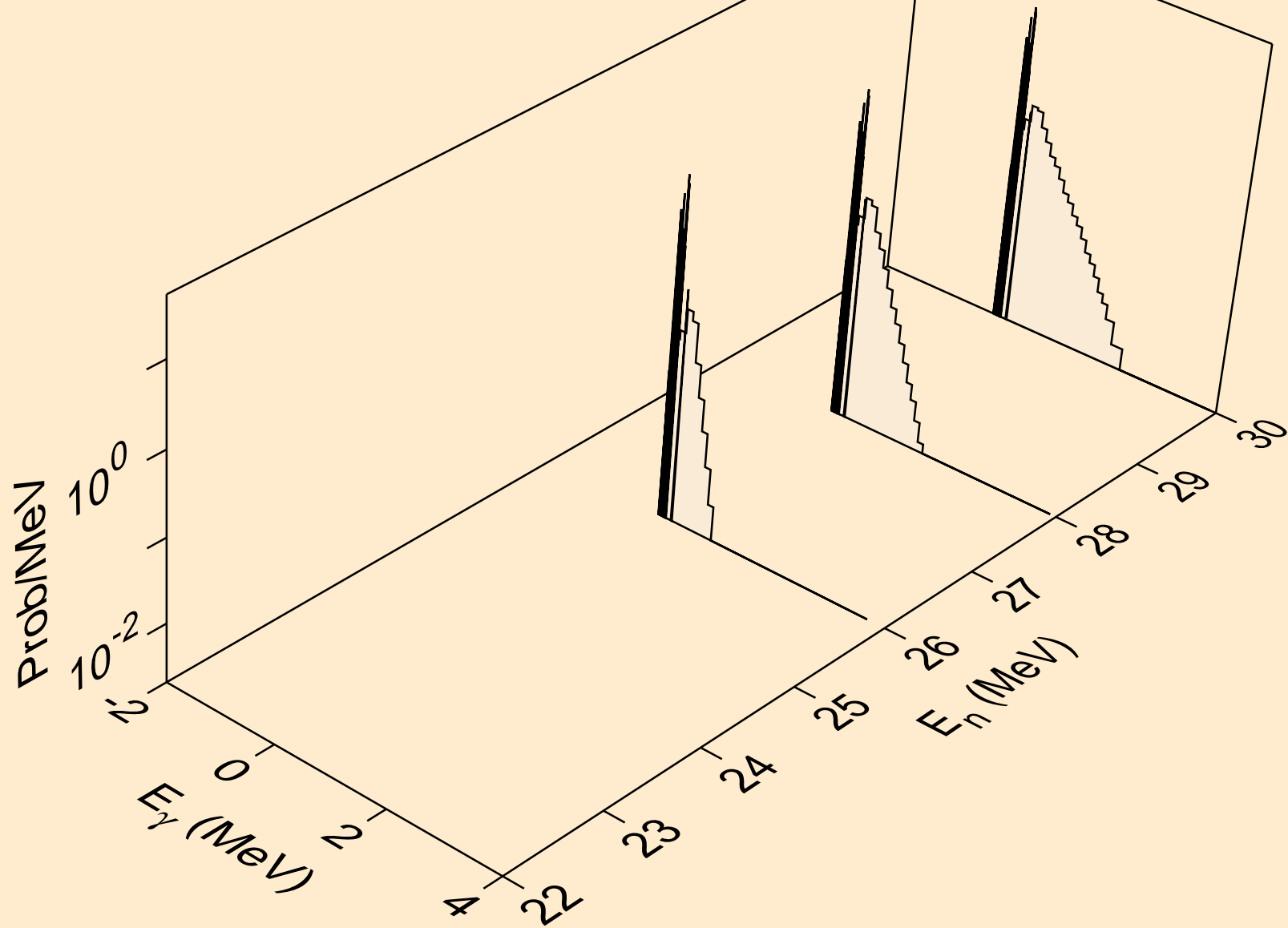


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2np)

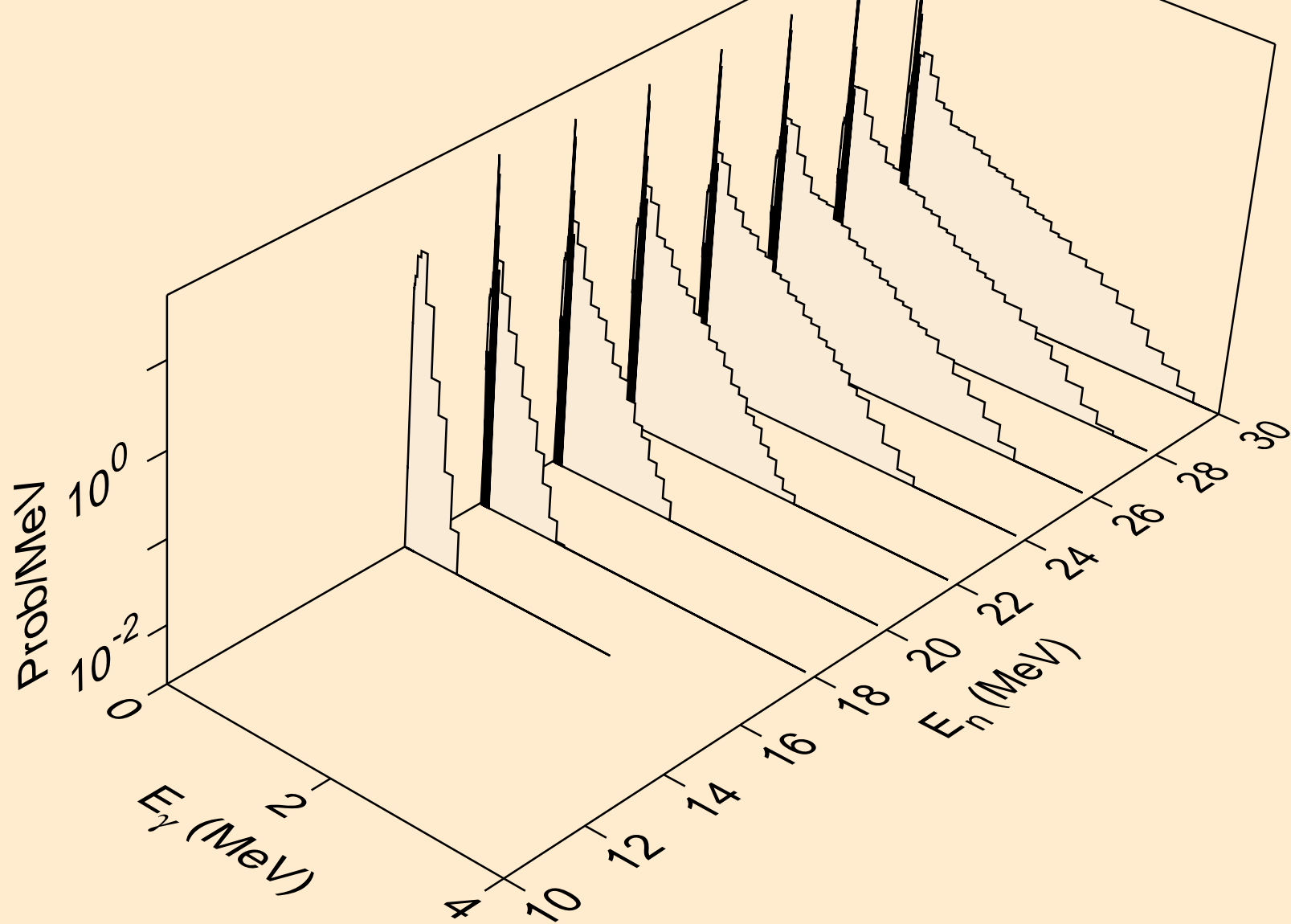




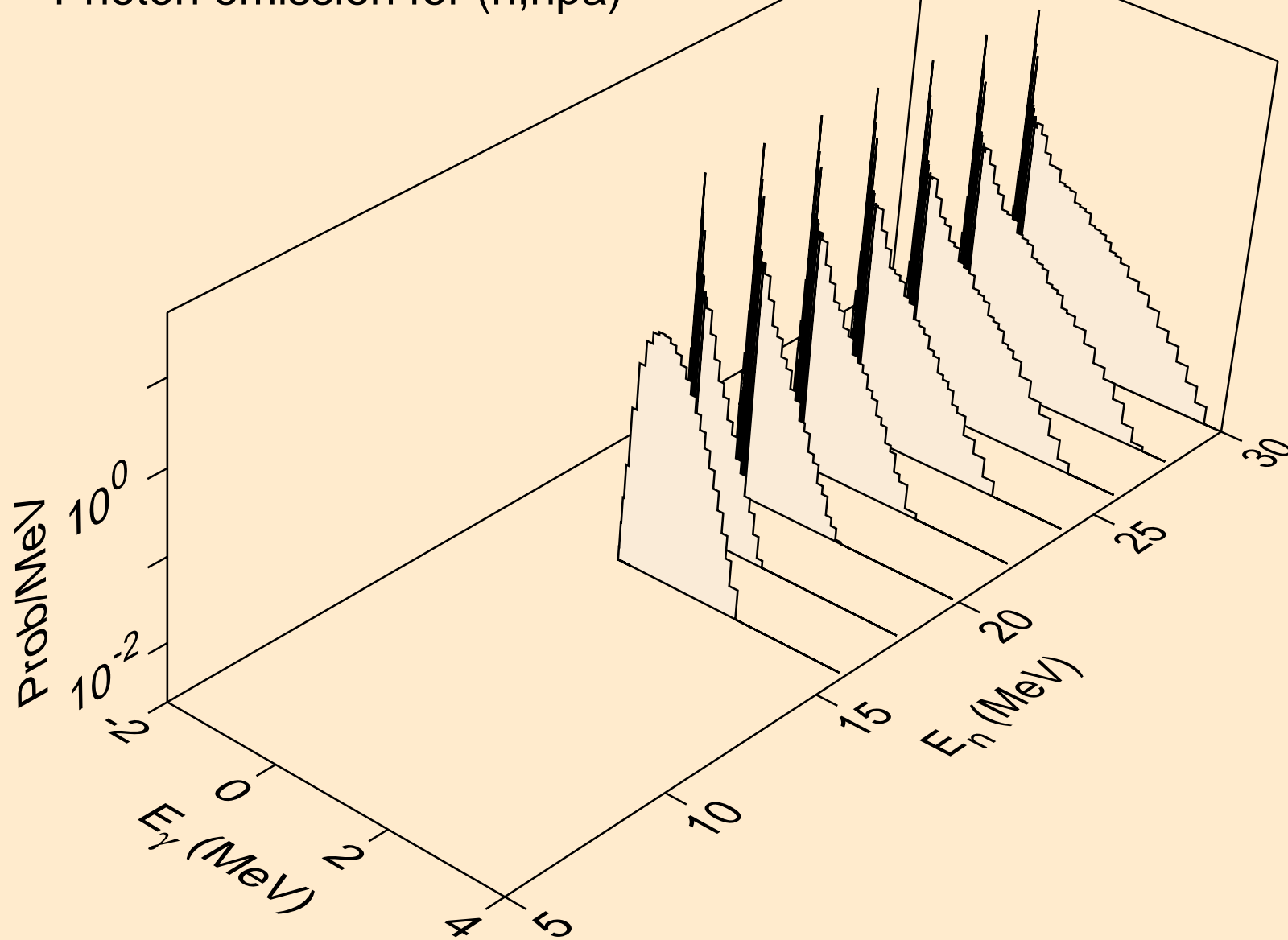
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,3np)



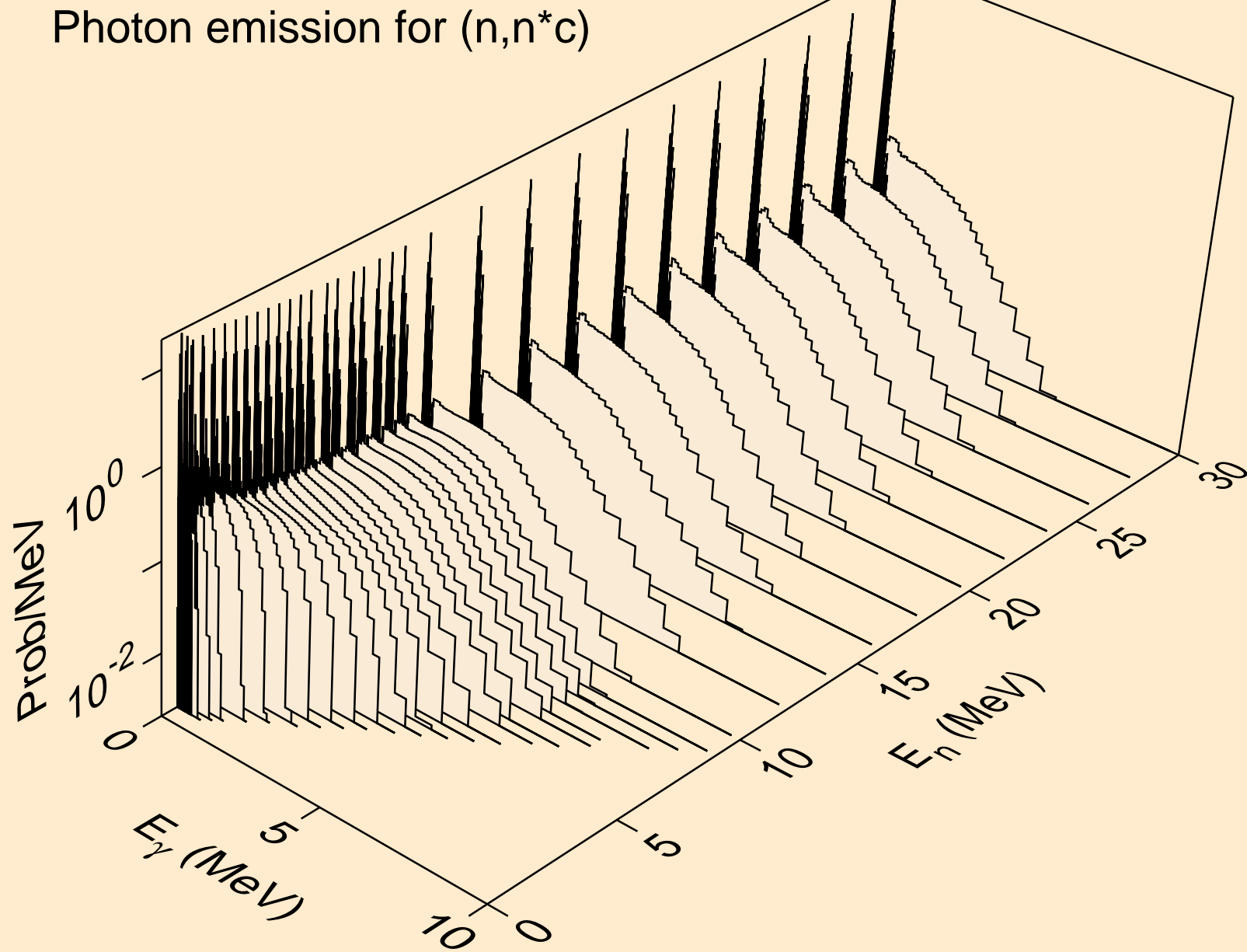
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n2p)



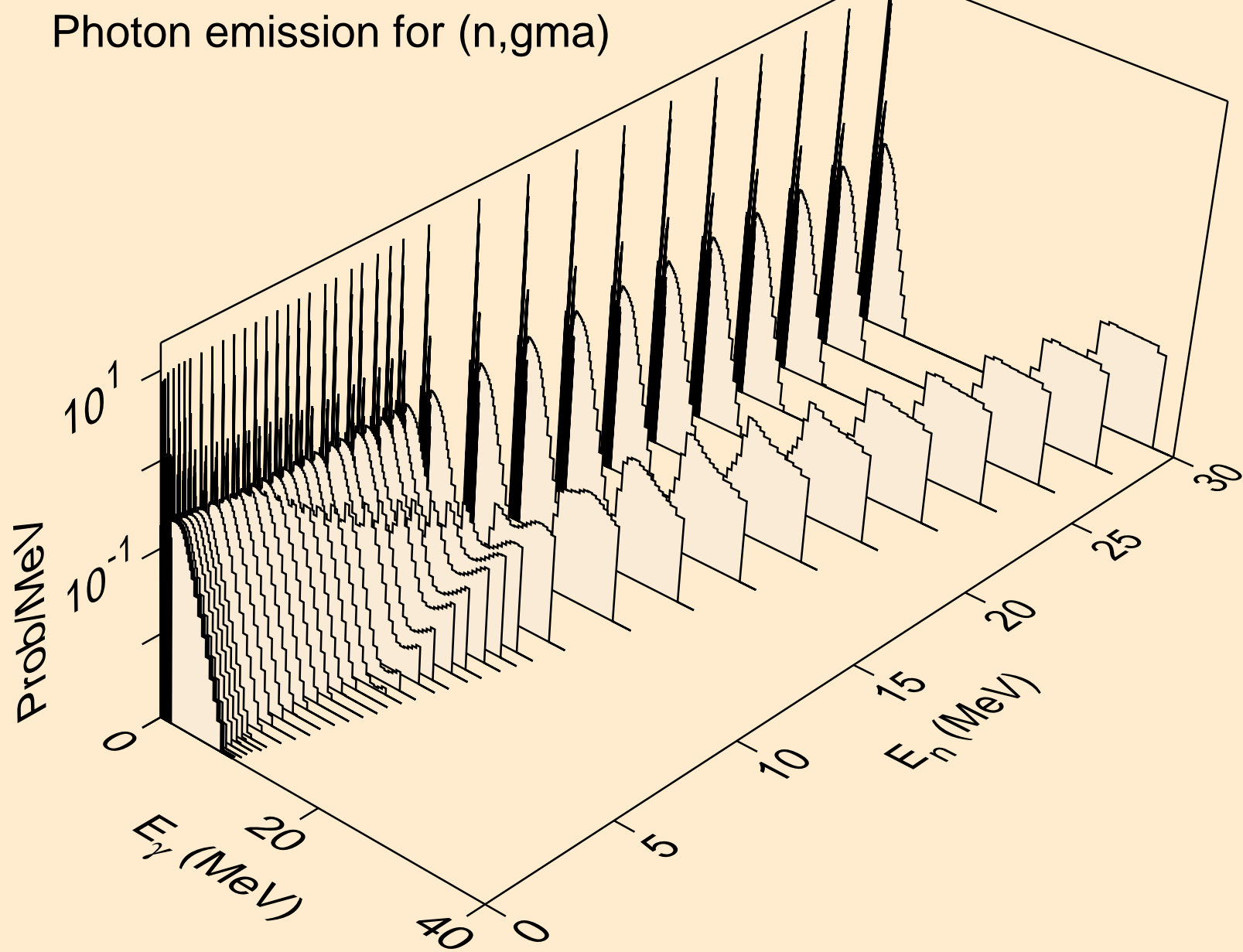
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,npa)



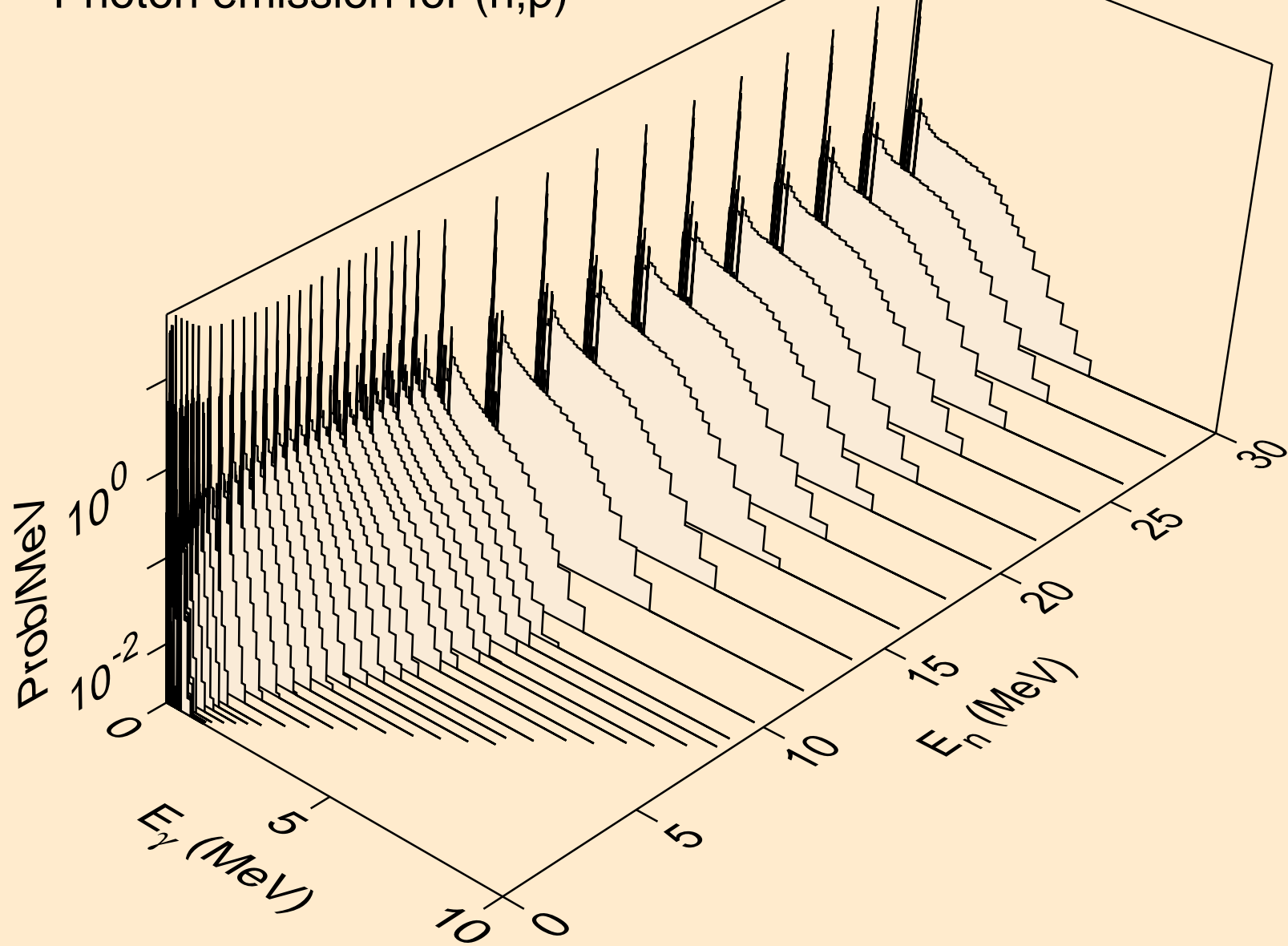
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,n\*c)



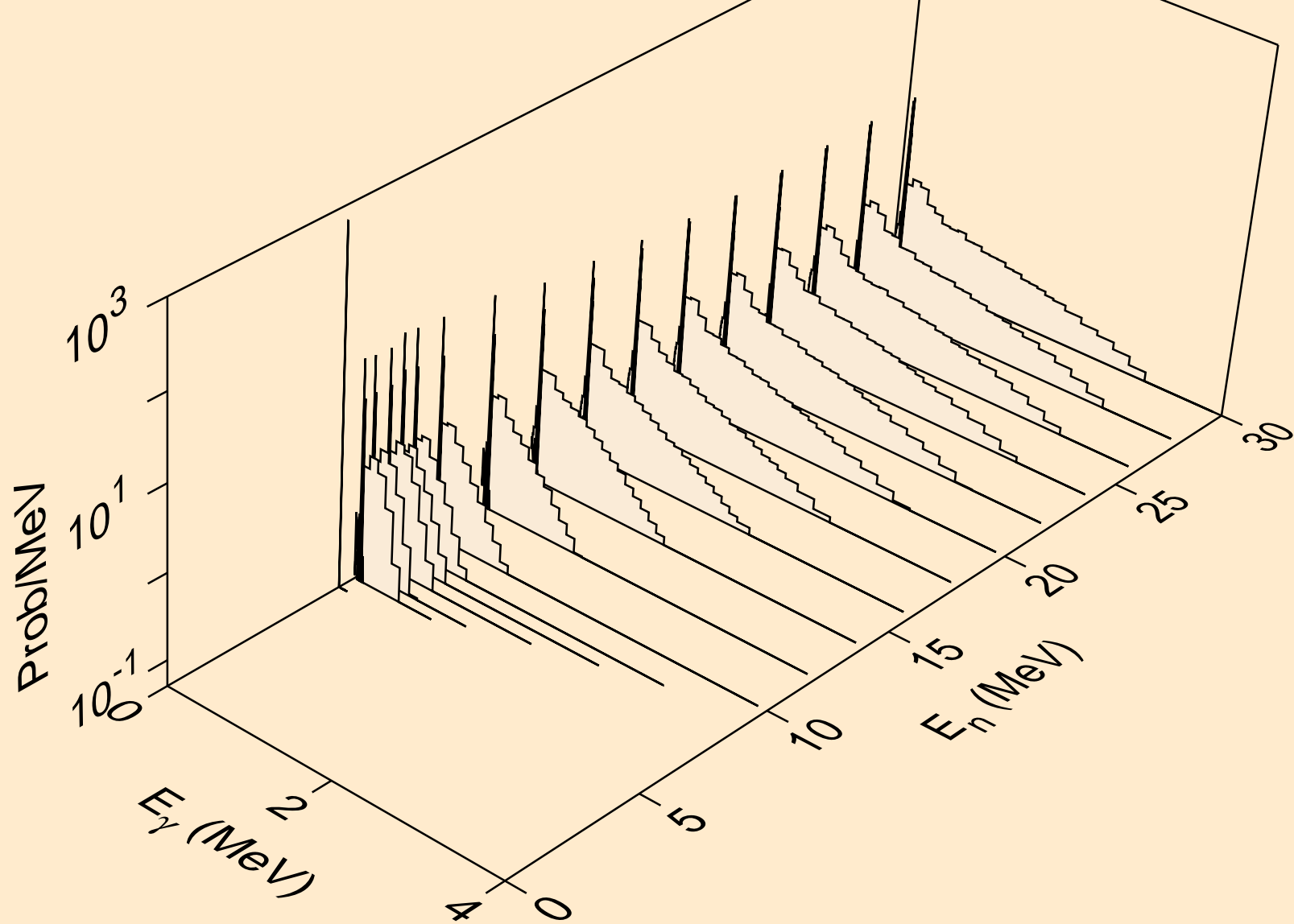
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,gma)



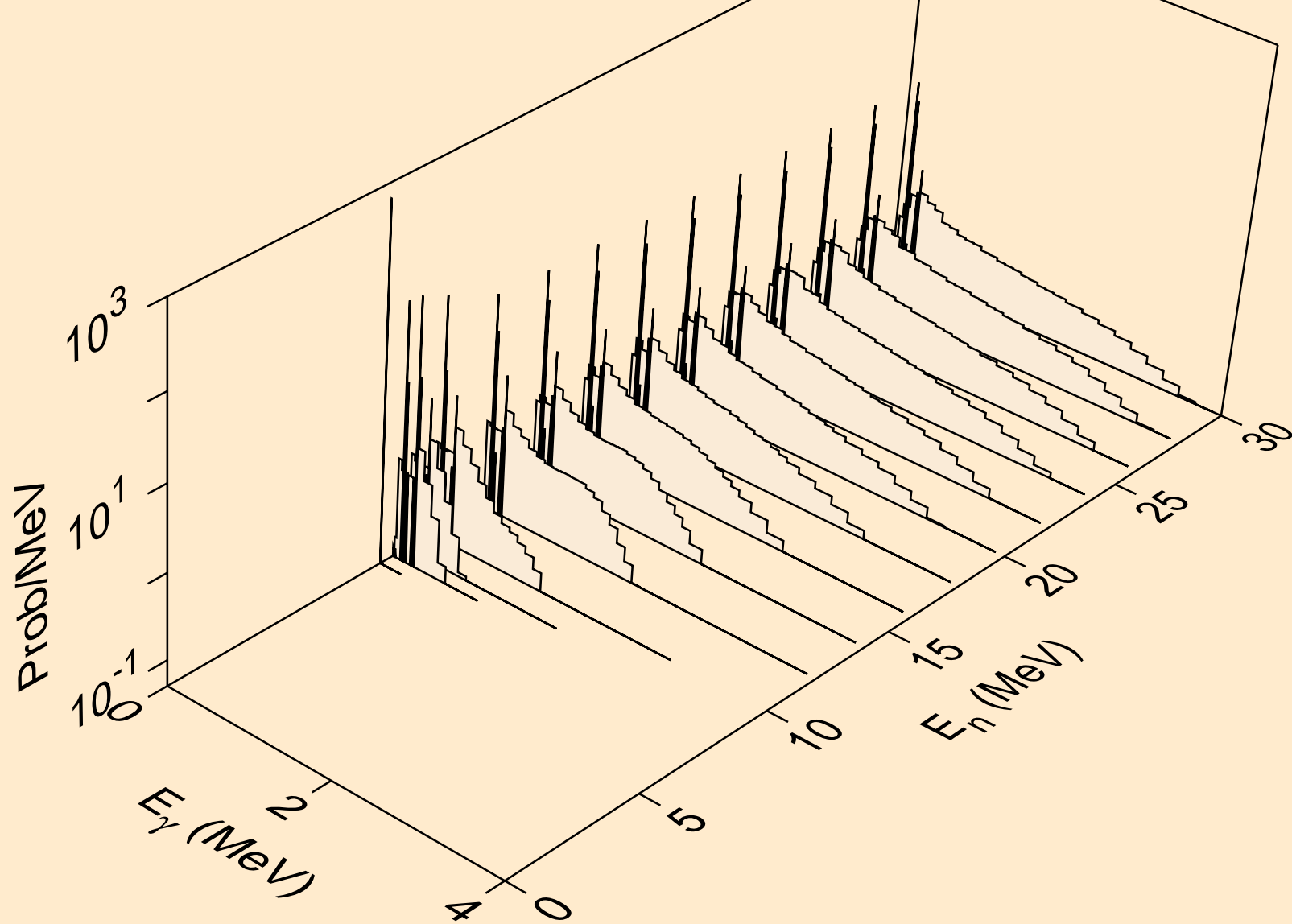
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,d)

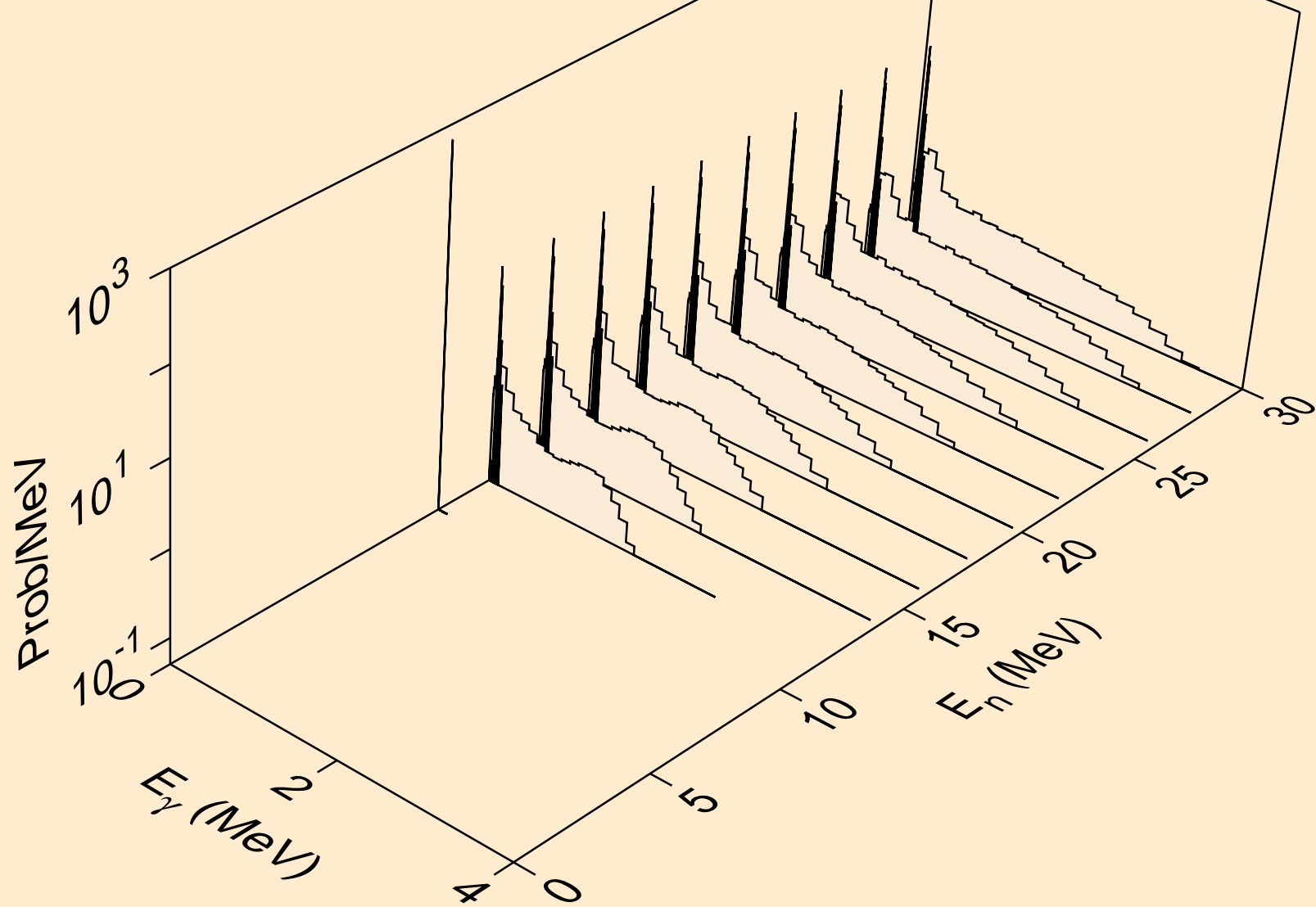


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,t)

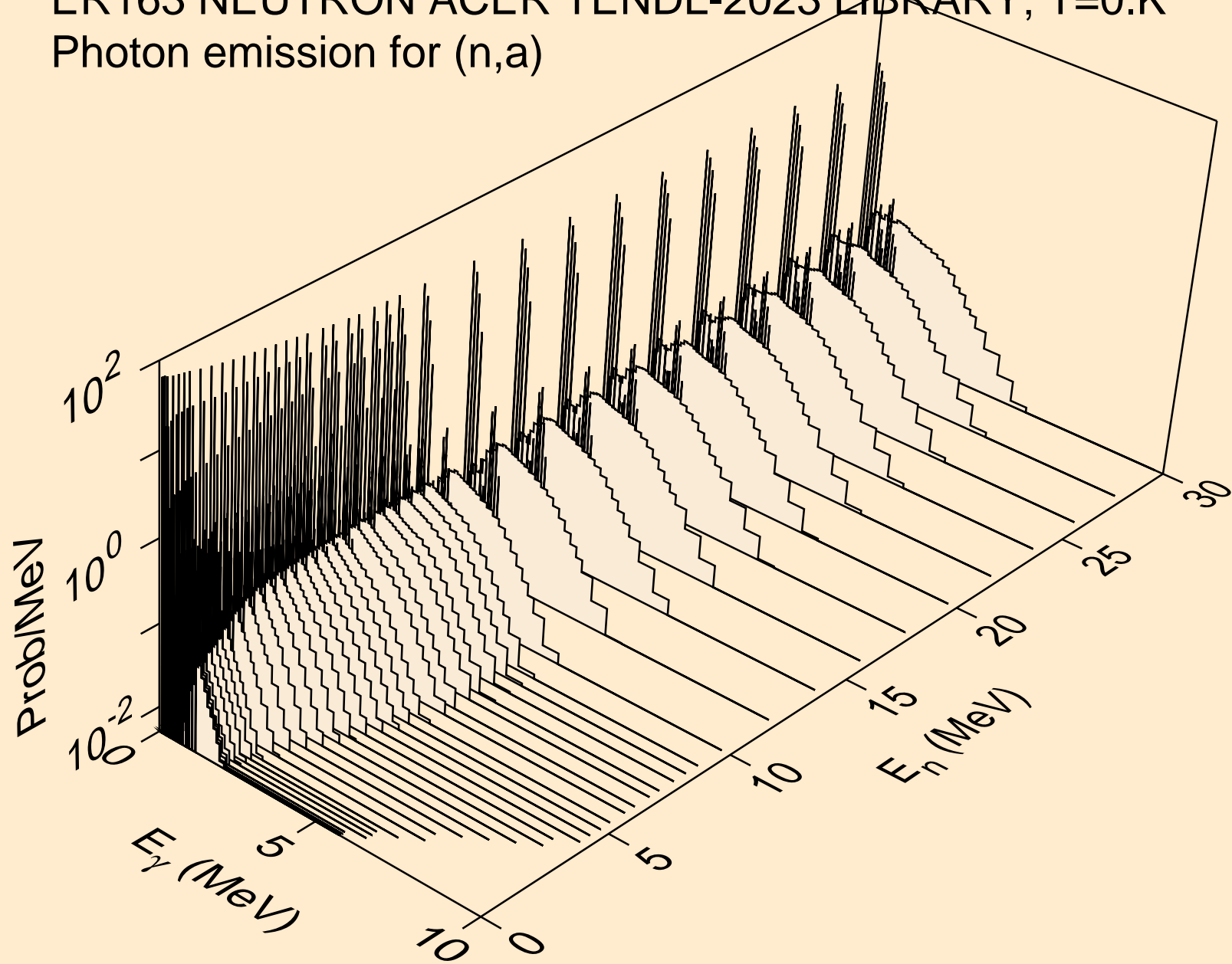




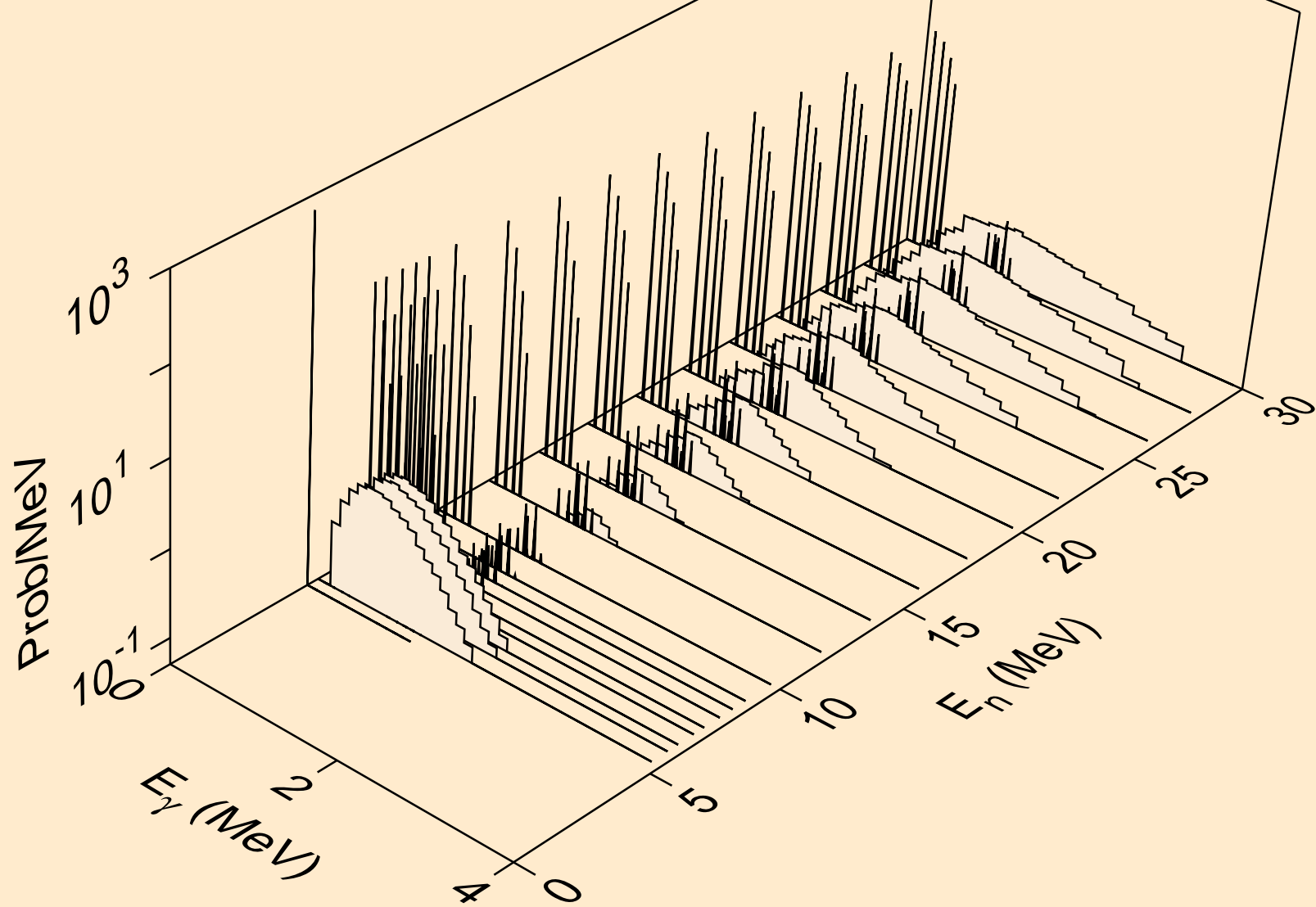
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,he3)



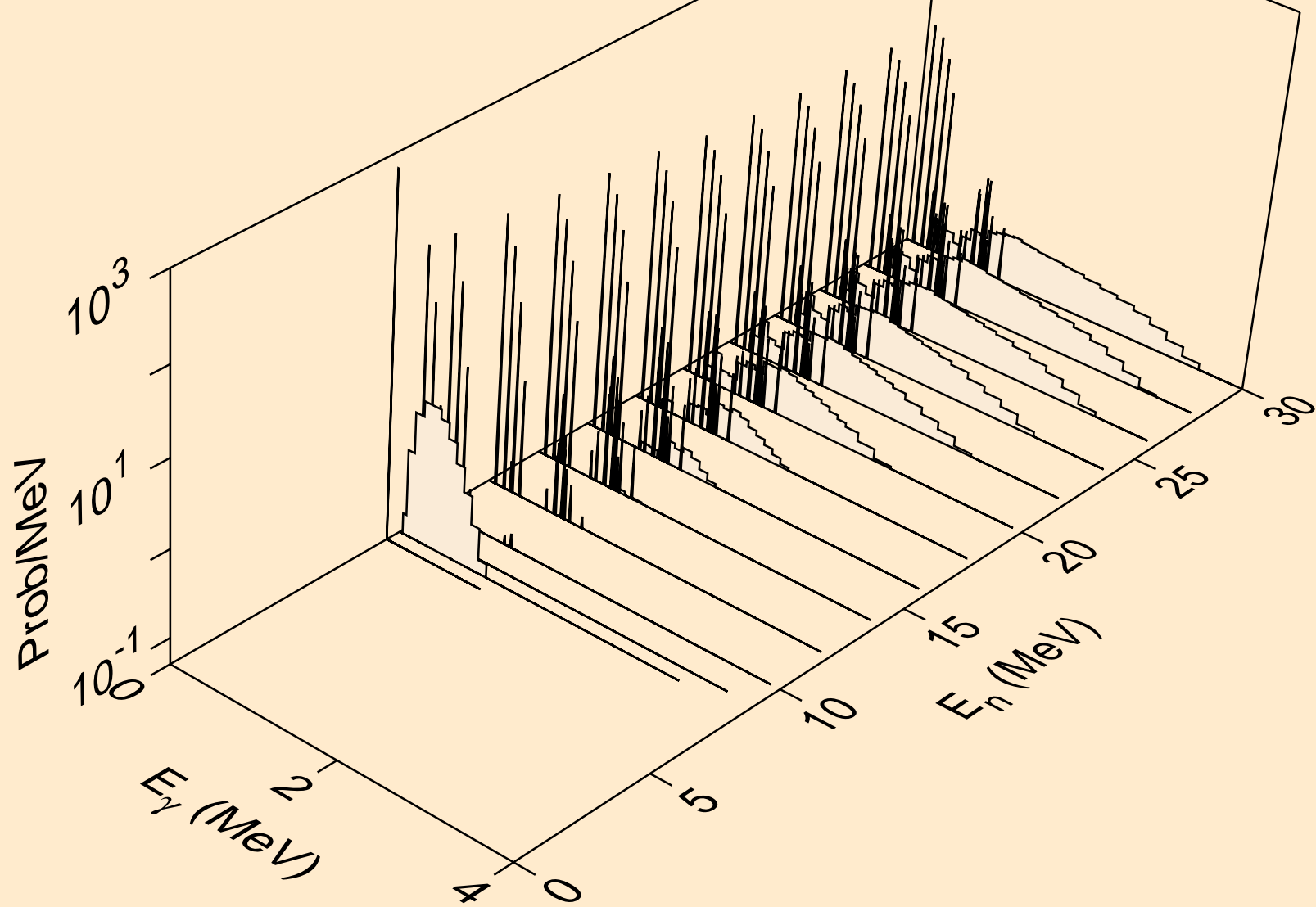
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,a)



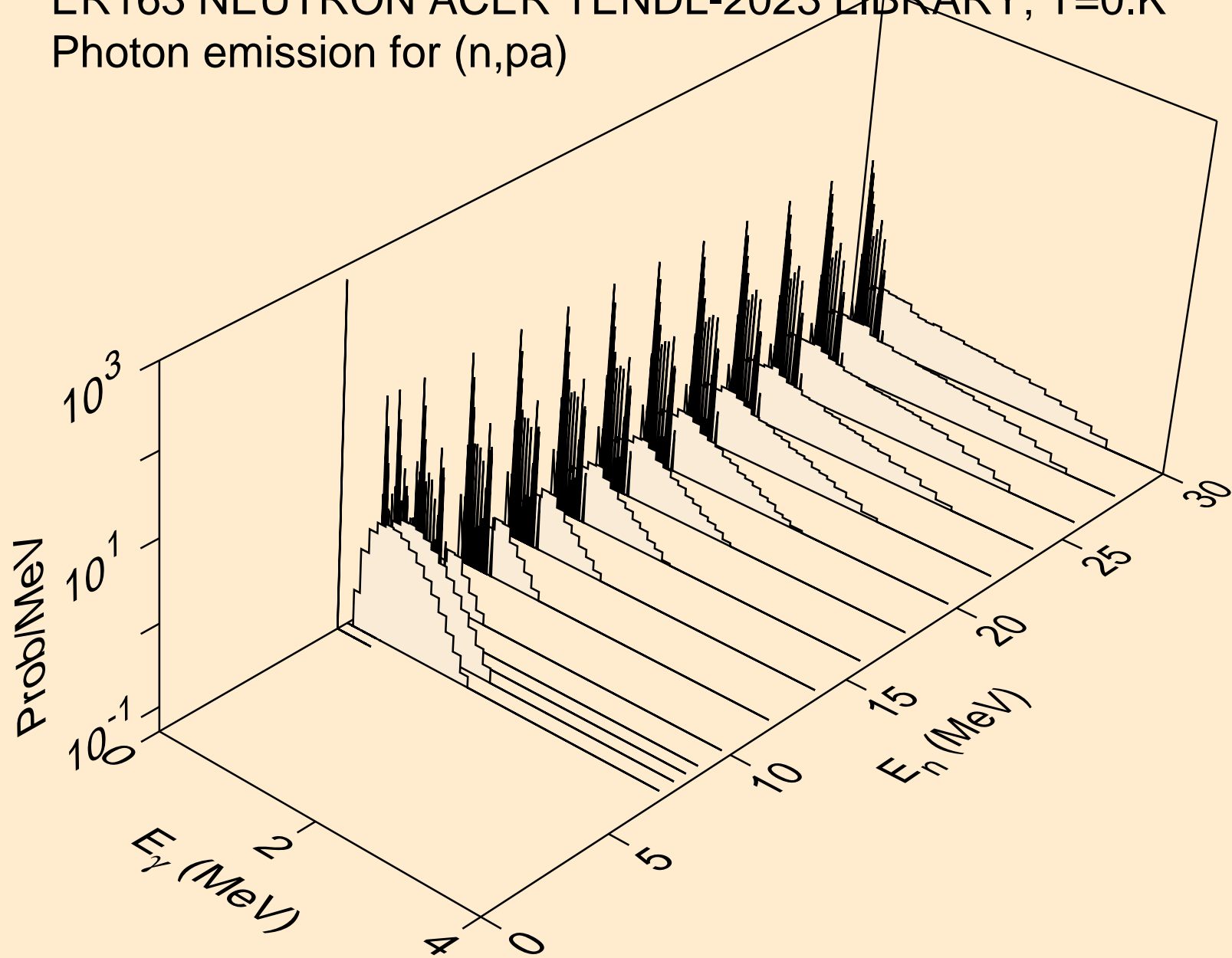
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2a)



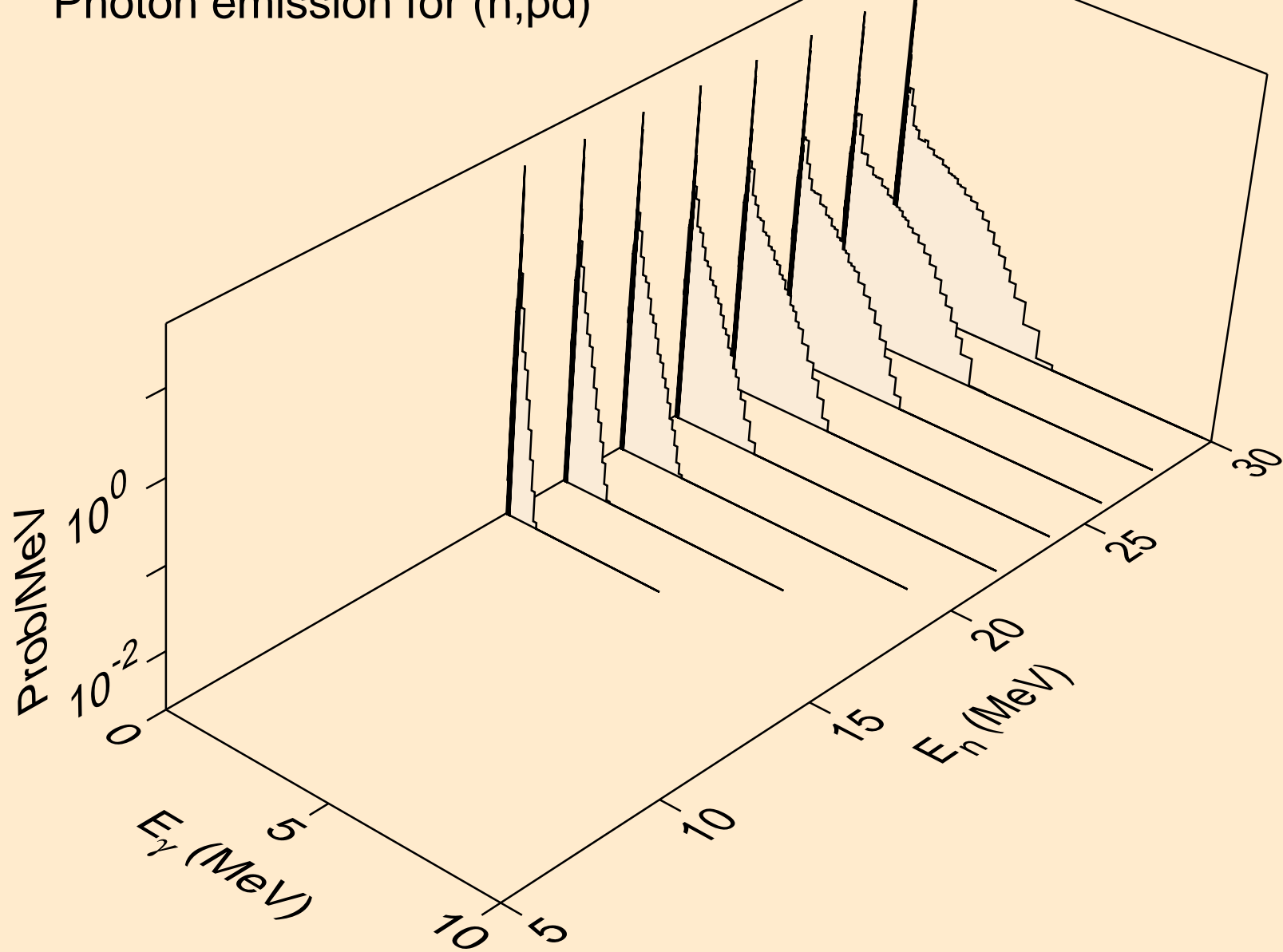
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,2p)



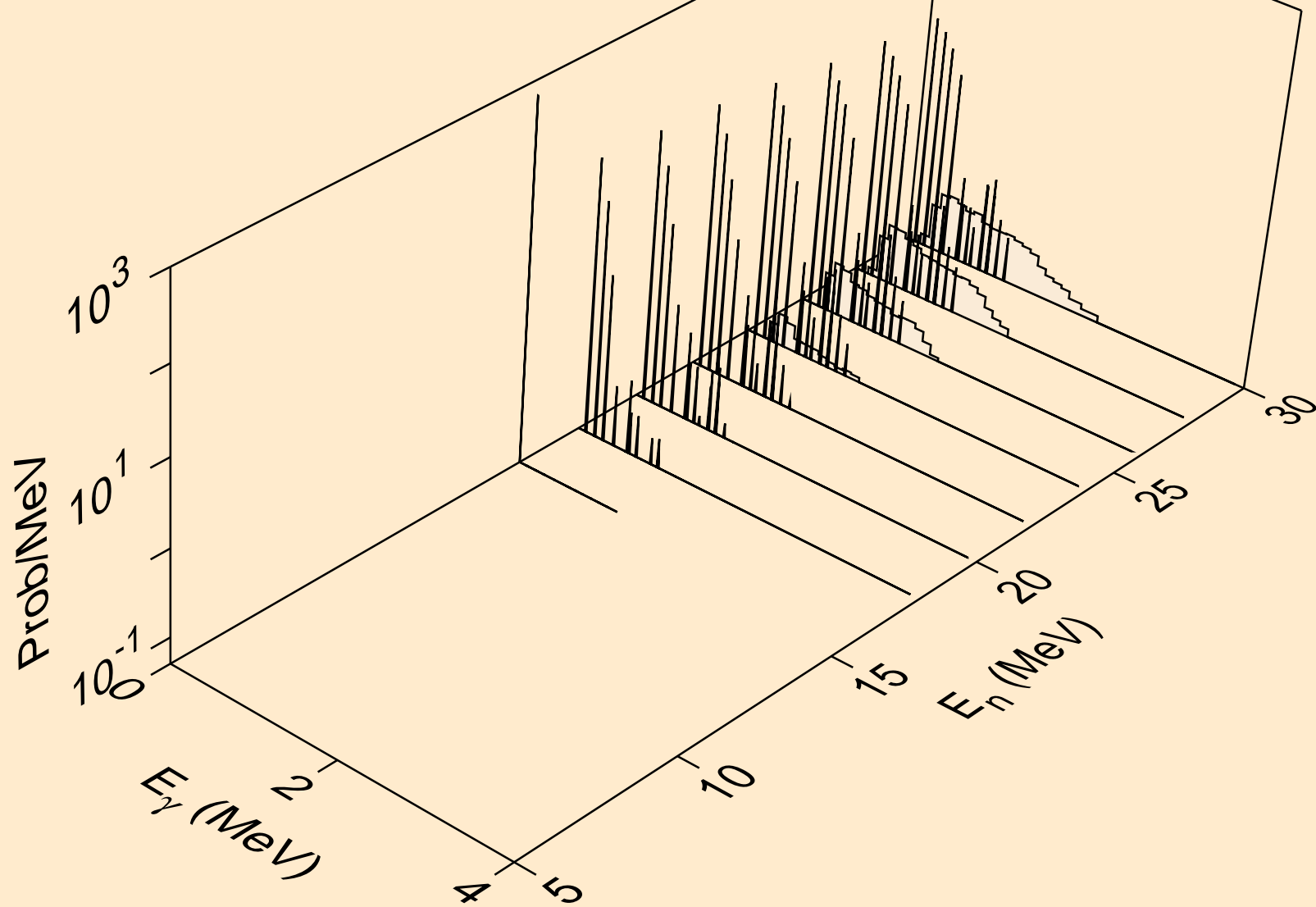
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,p $\alpha$ )



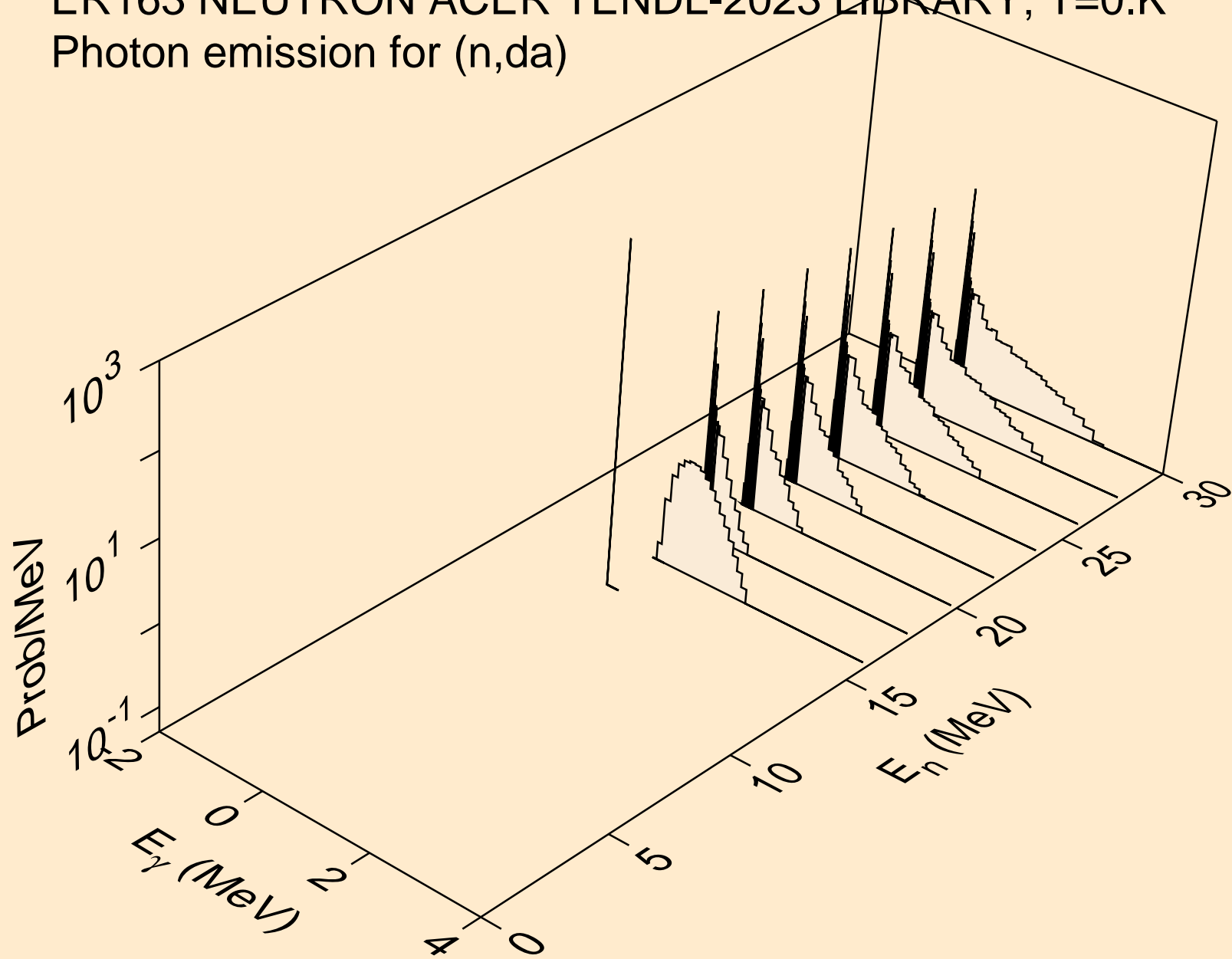
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pd)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,pt)

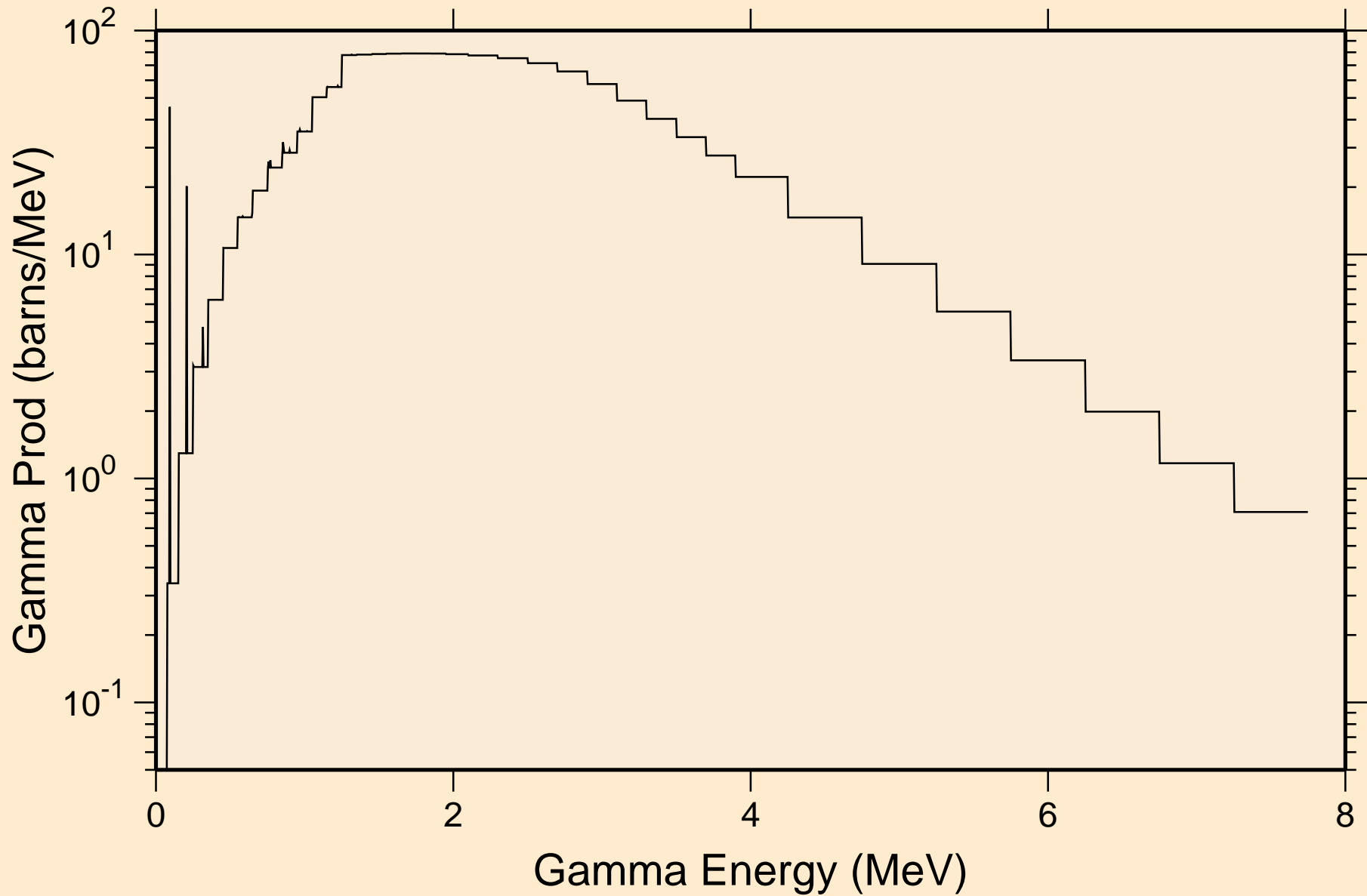


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Photon emission for (n,da)

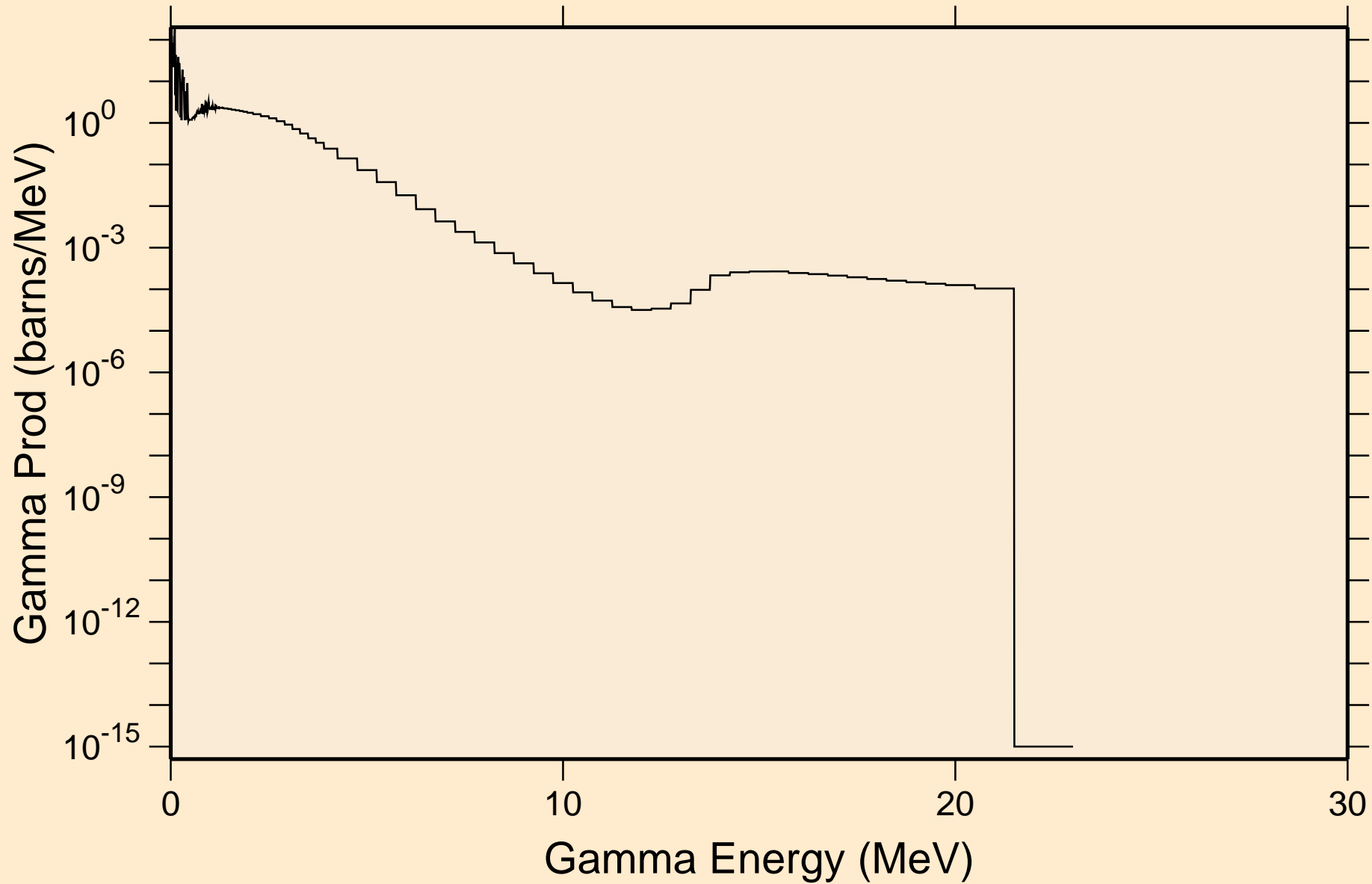




ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
thermal capture photon spectrum

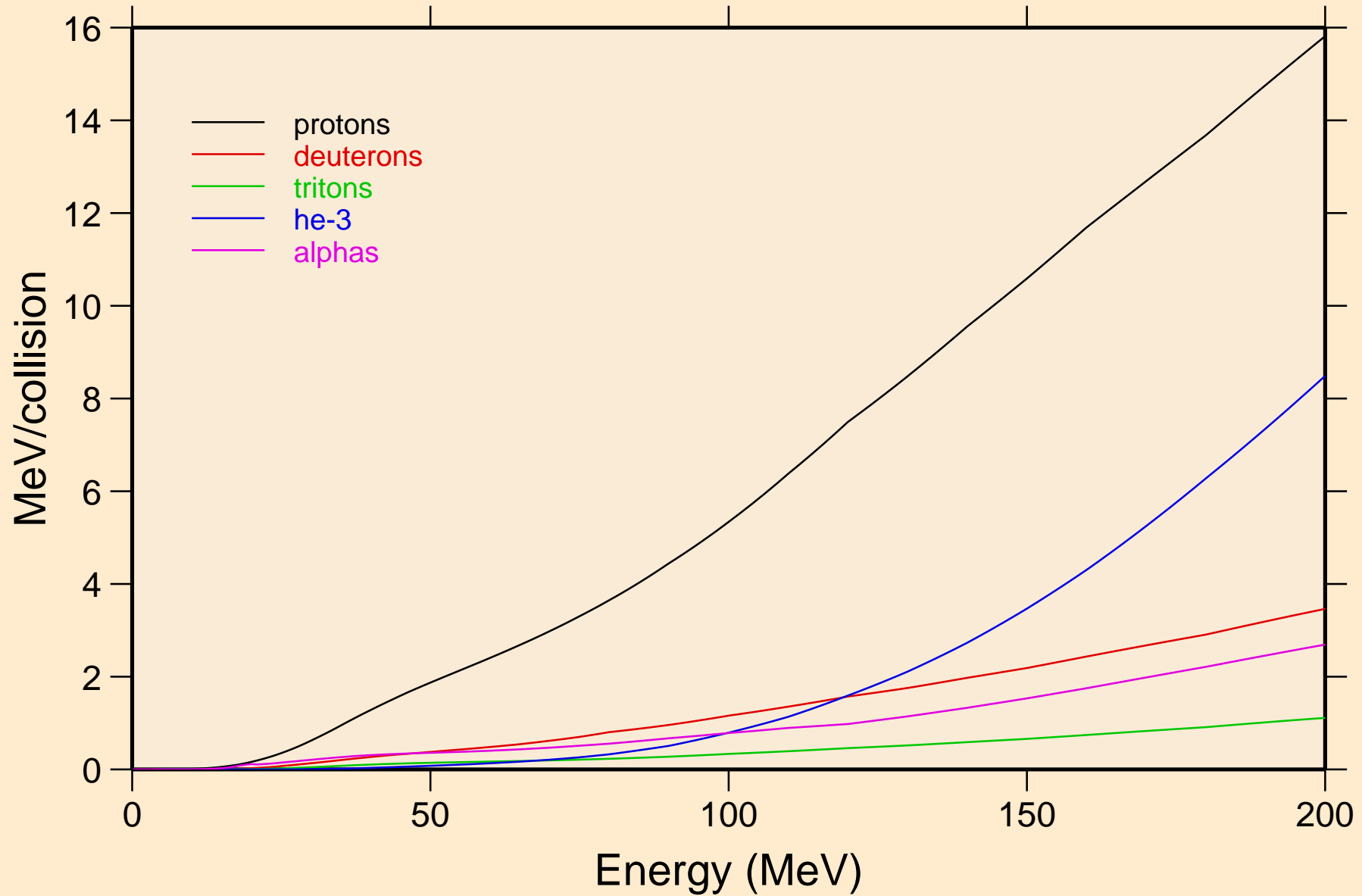


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
14 MeV photon spectrum

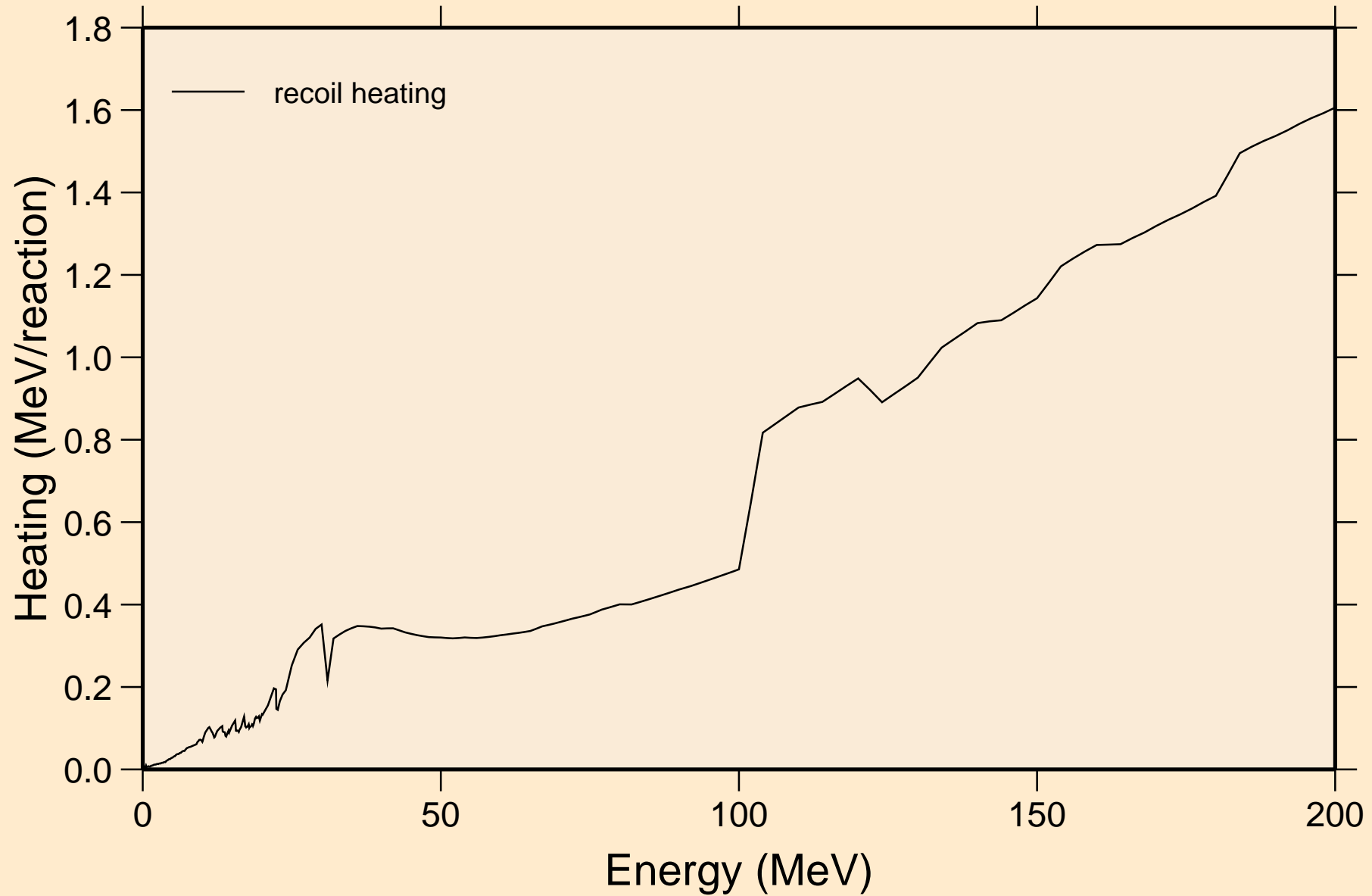


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

## Particle heating contributions

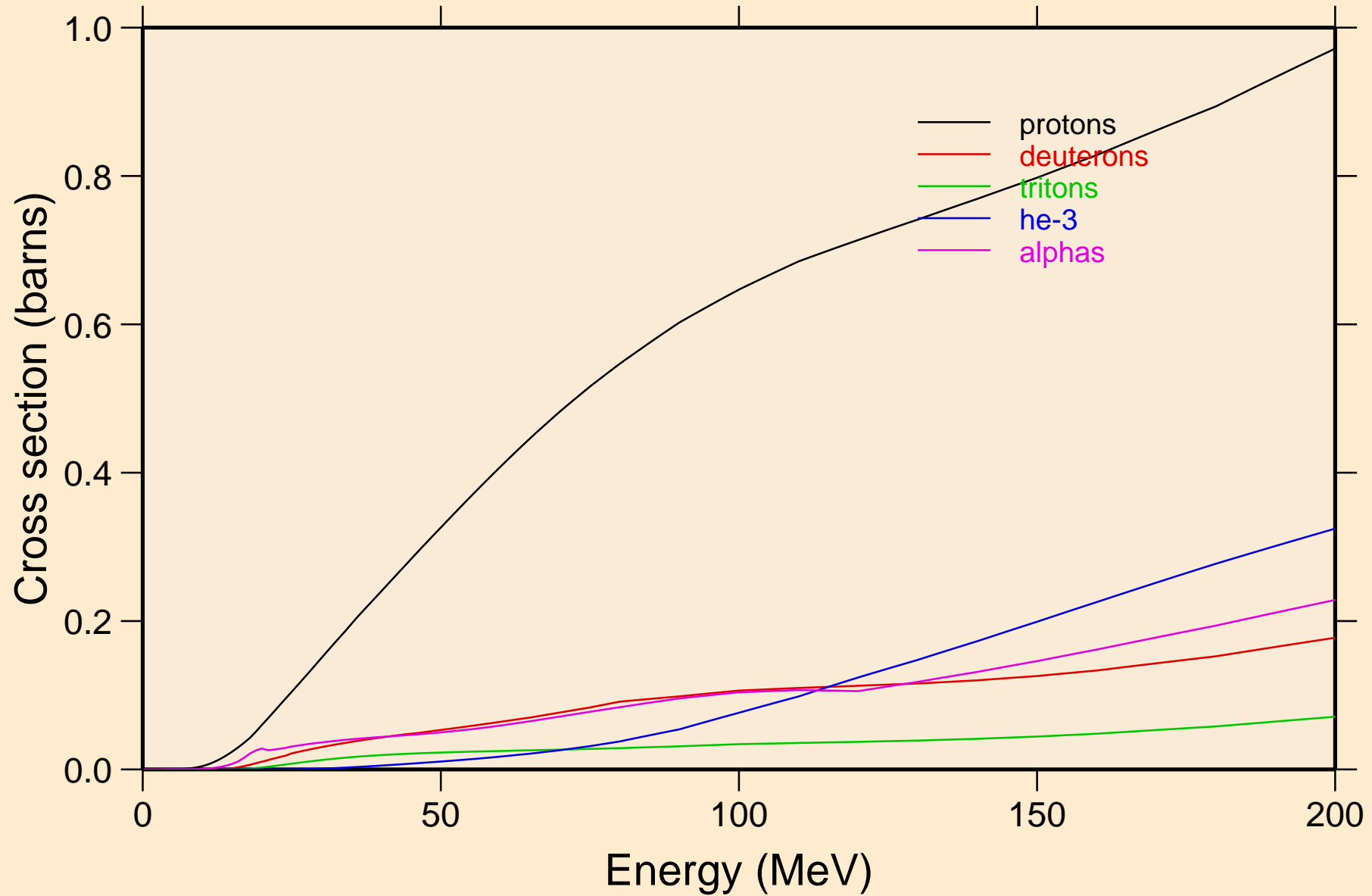


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
Recoil Heating

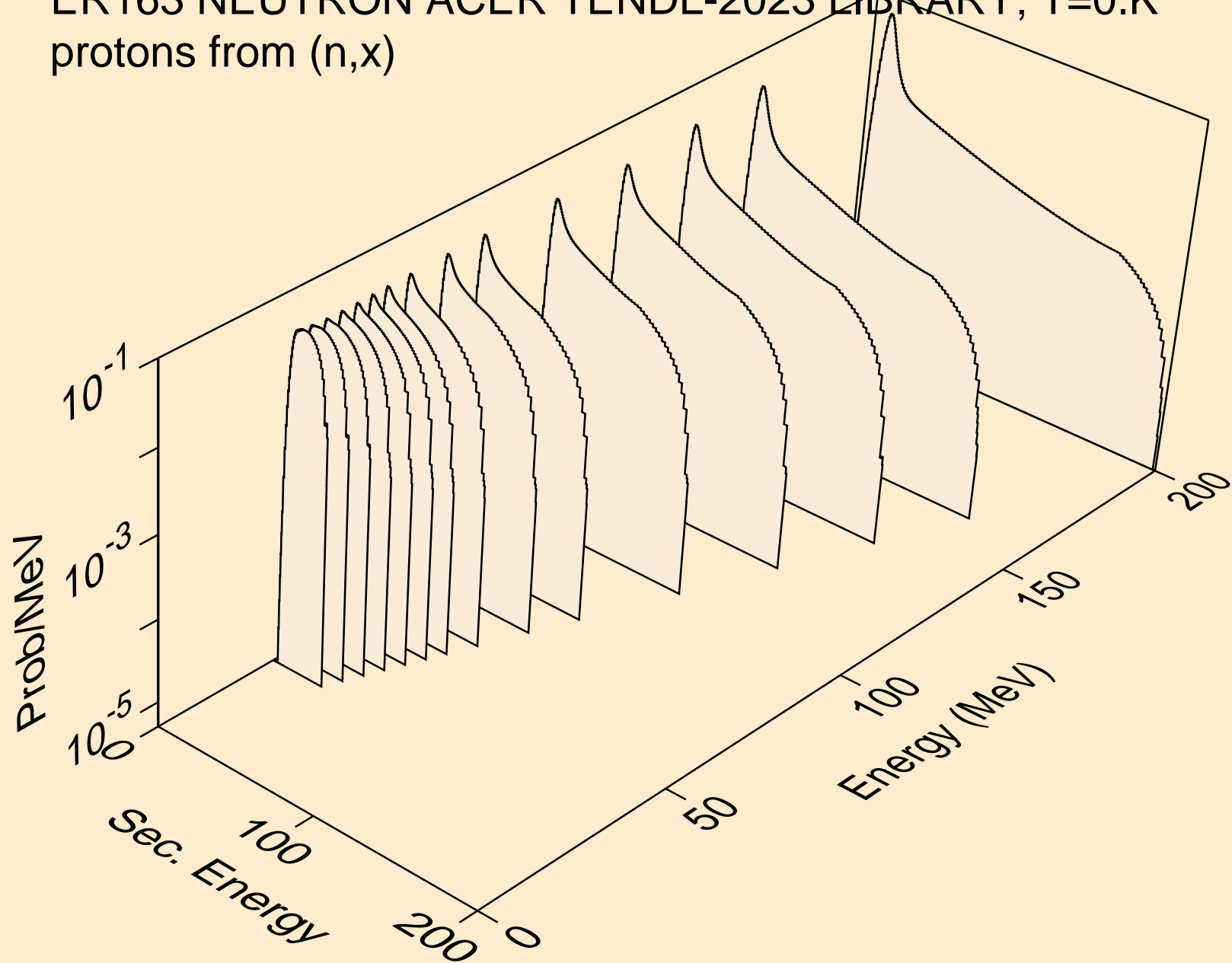


# ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K

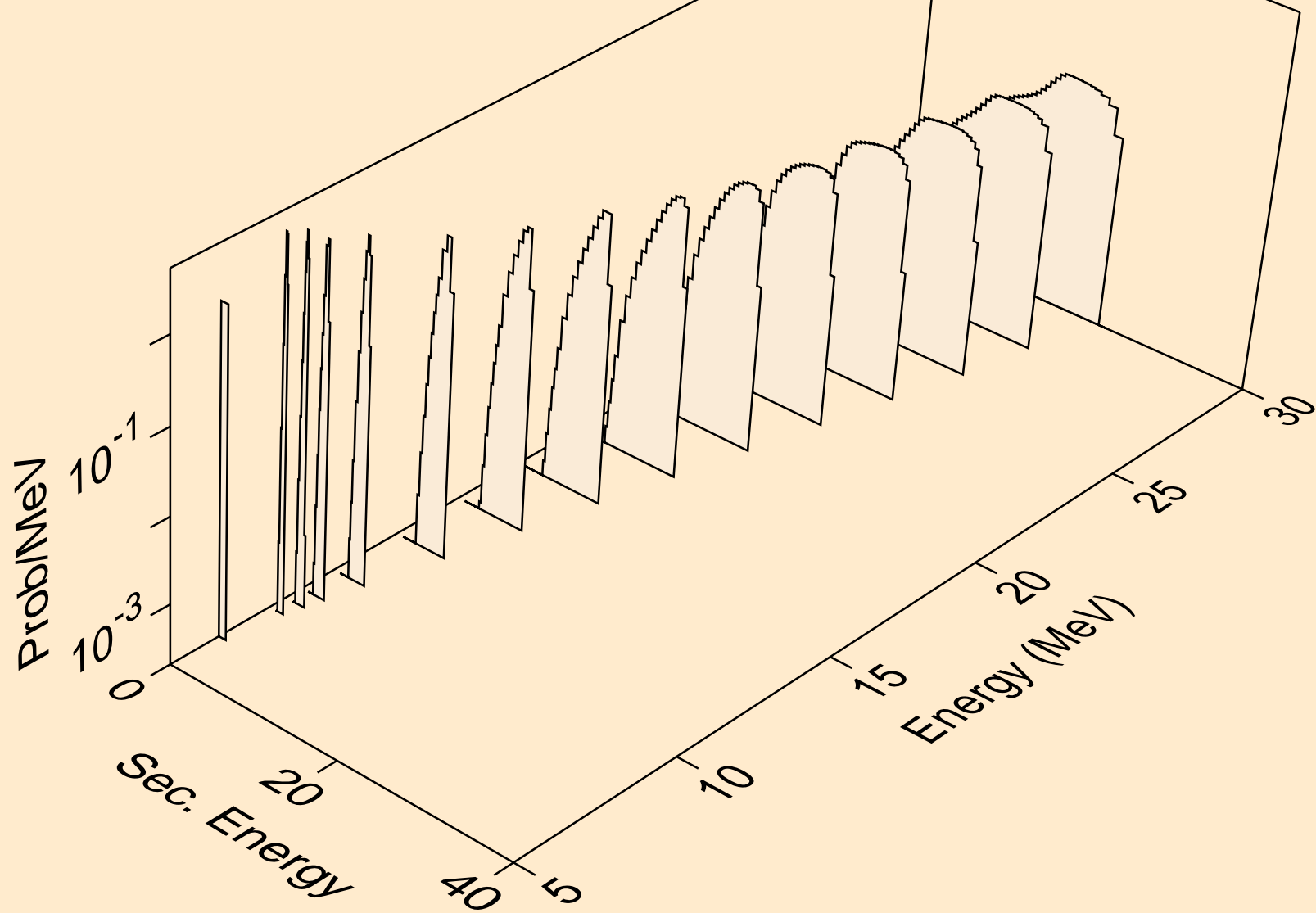
## Particle production cross sections



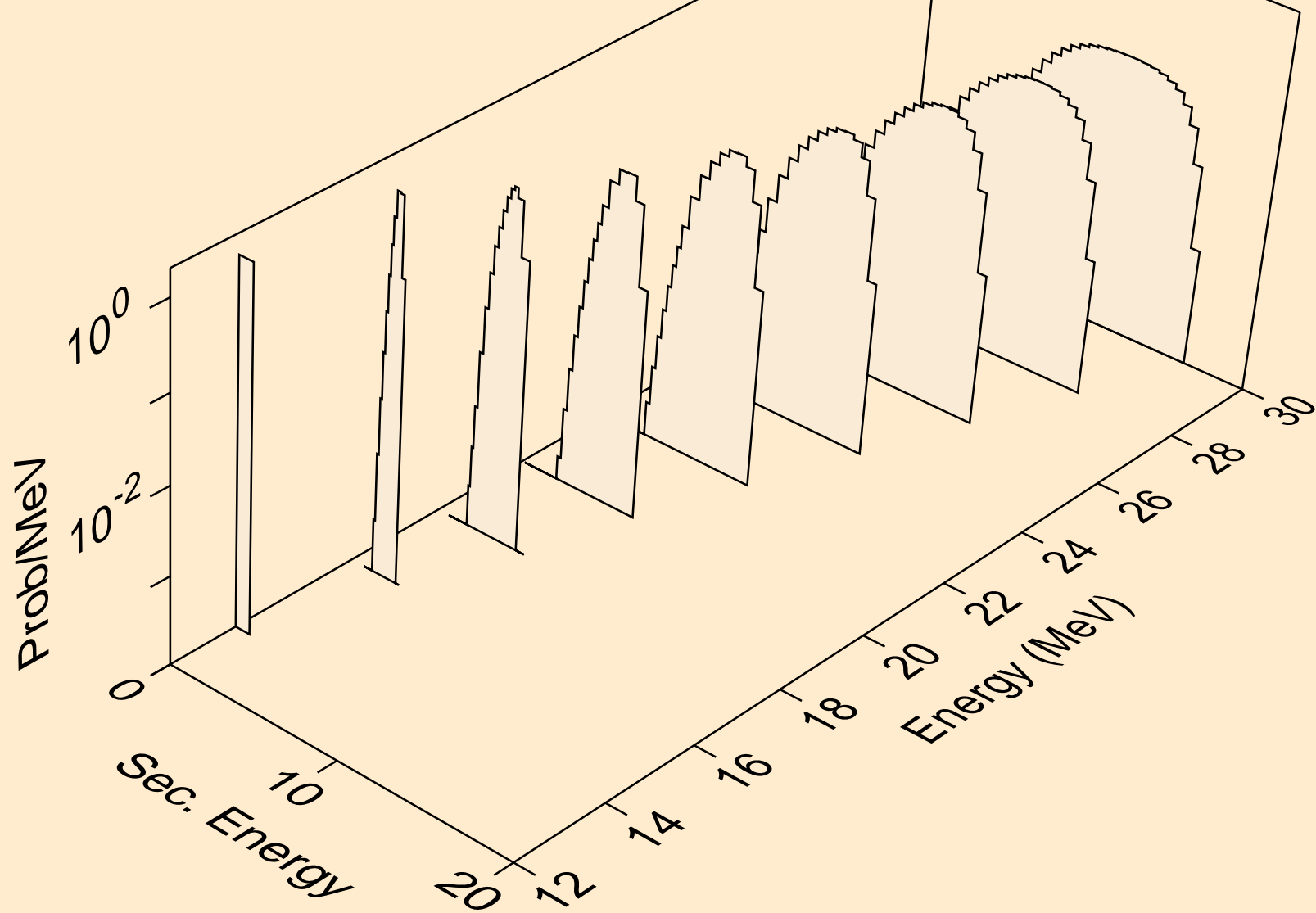
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,x)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n\*)p

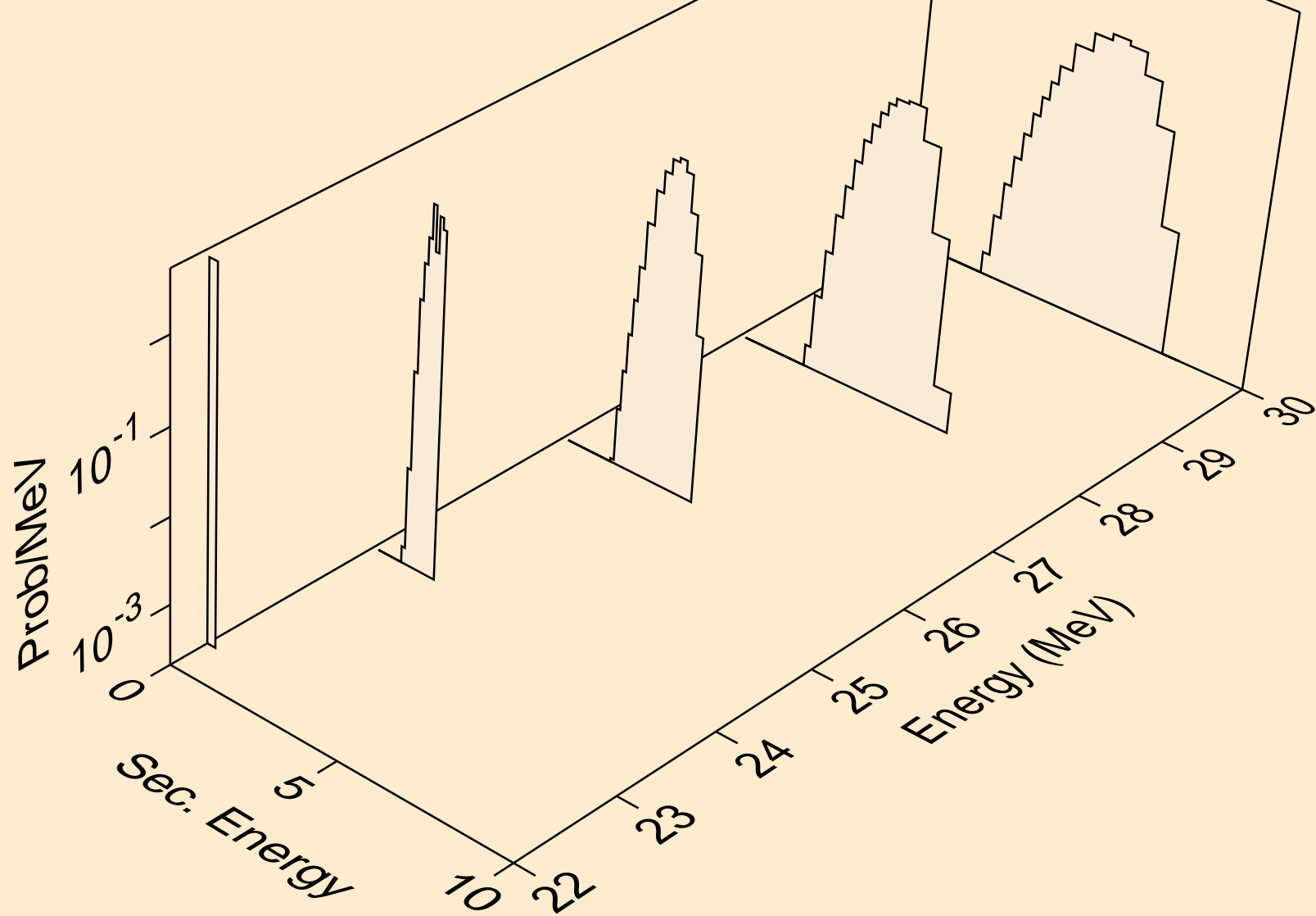


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2np)

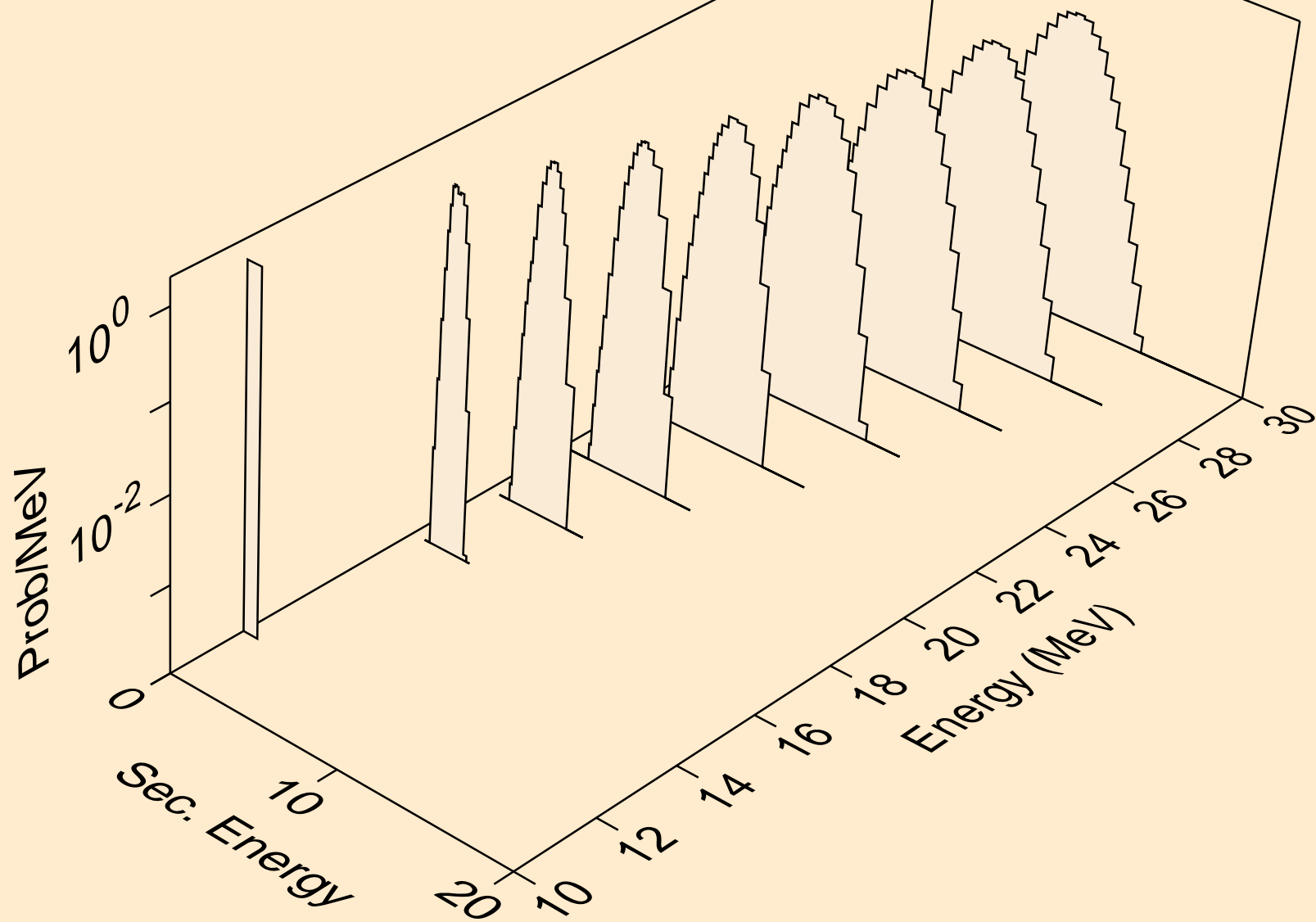




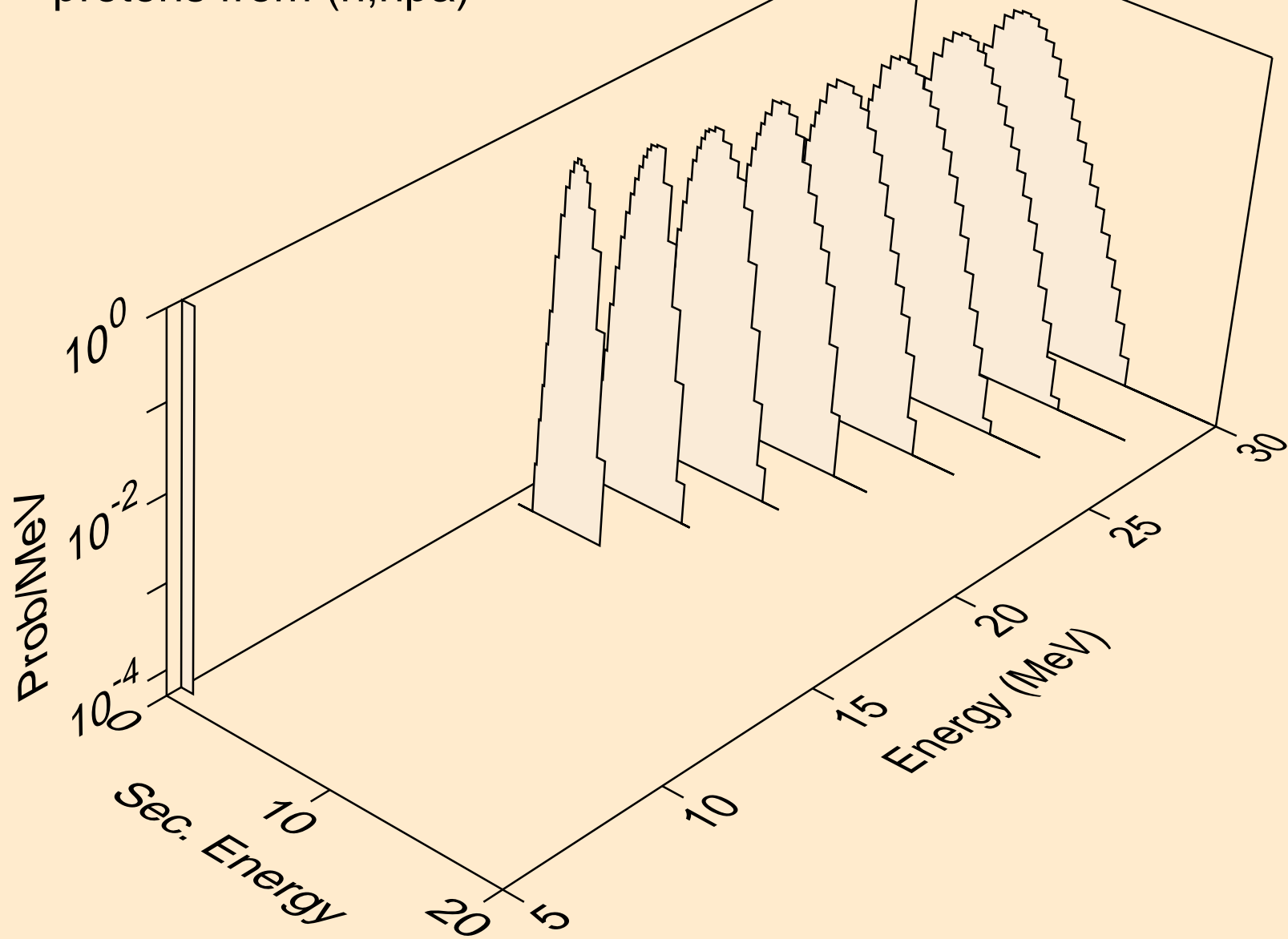
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,3np)



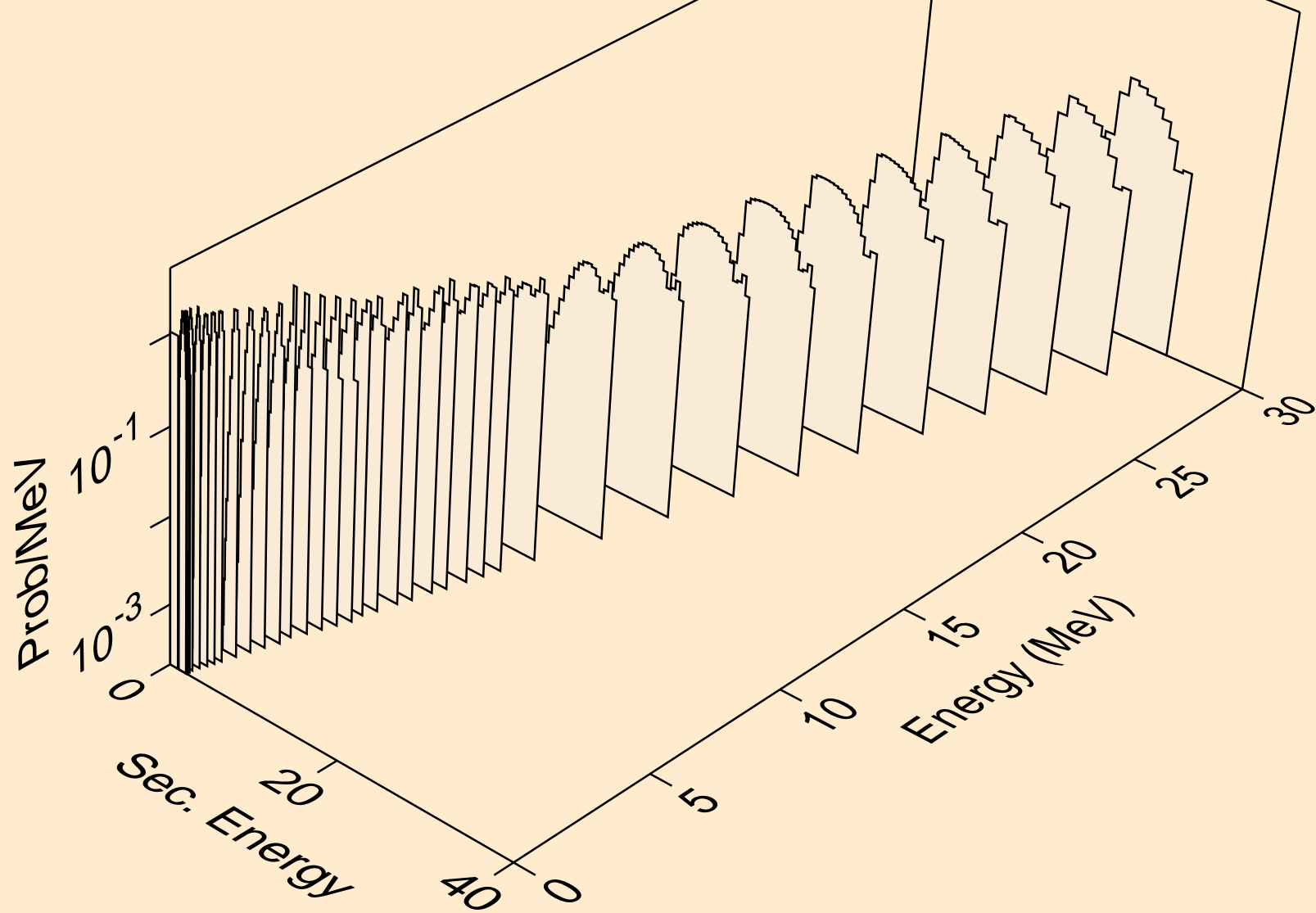
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,n2p)



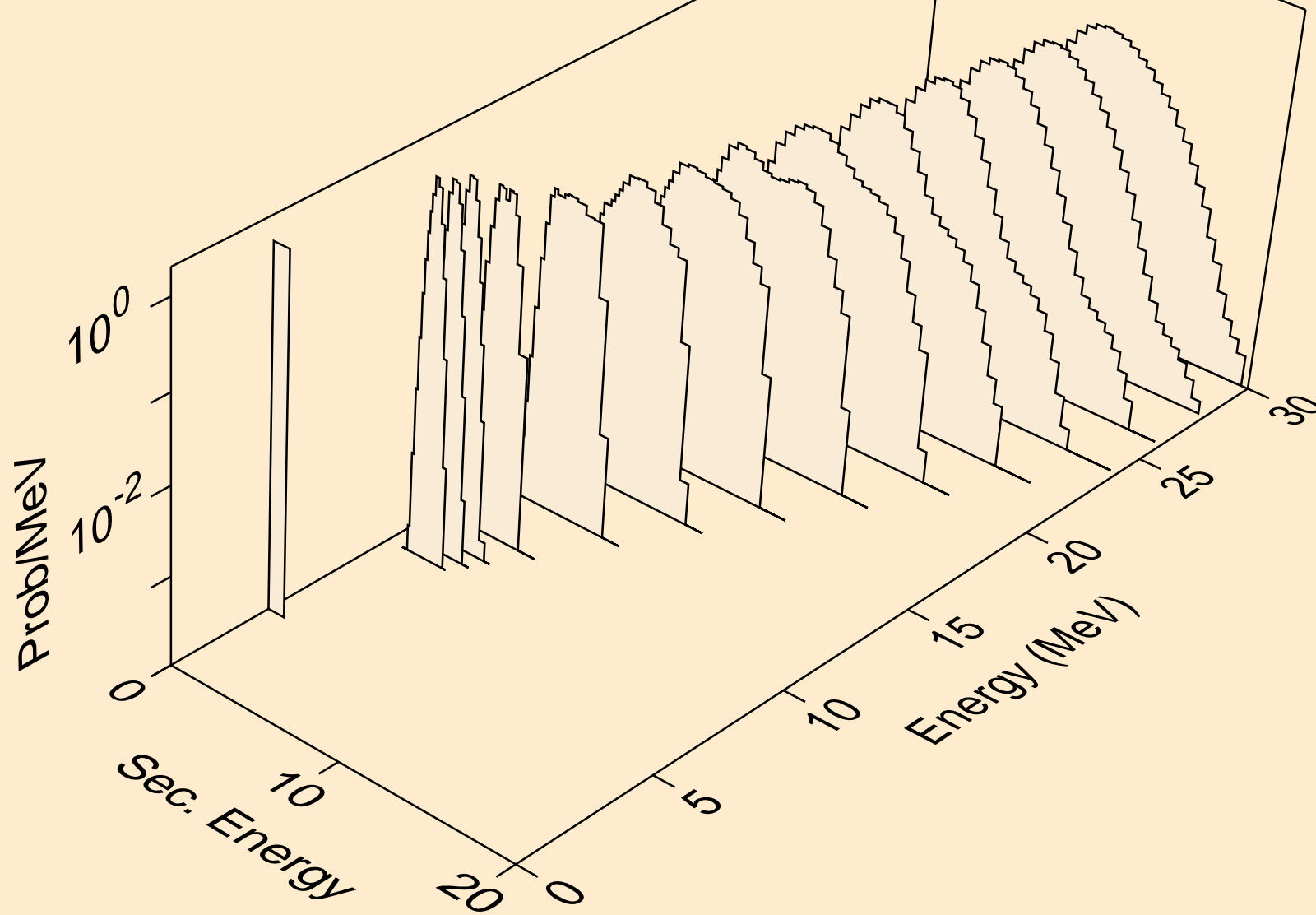
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,npa)



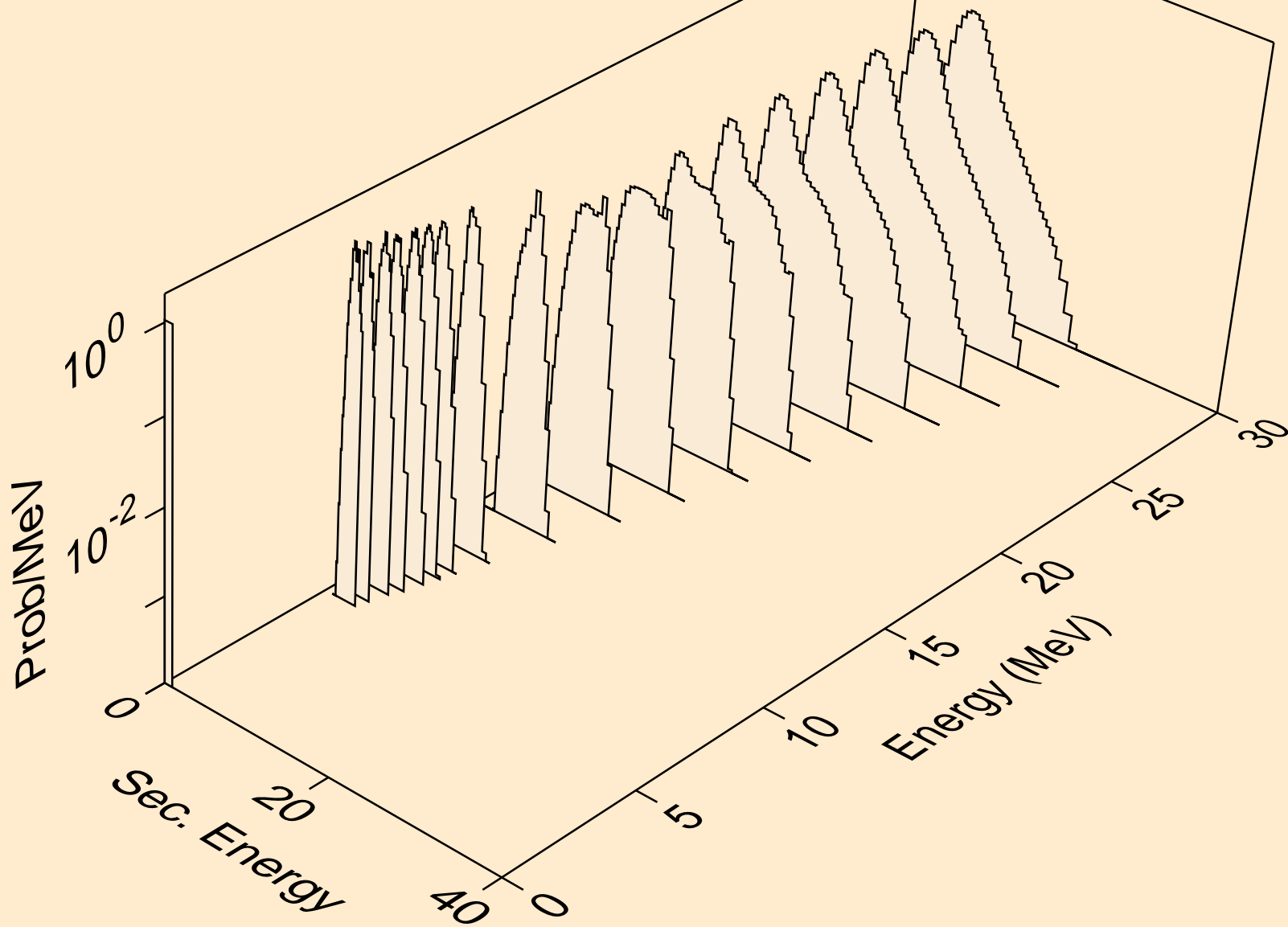
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



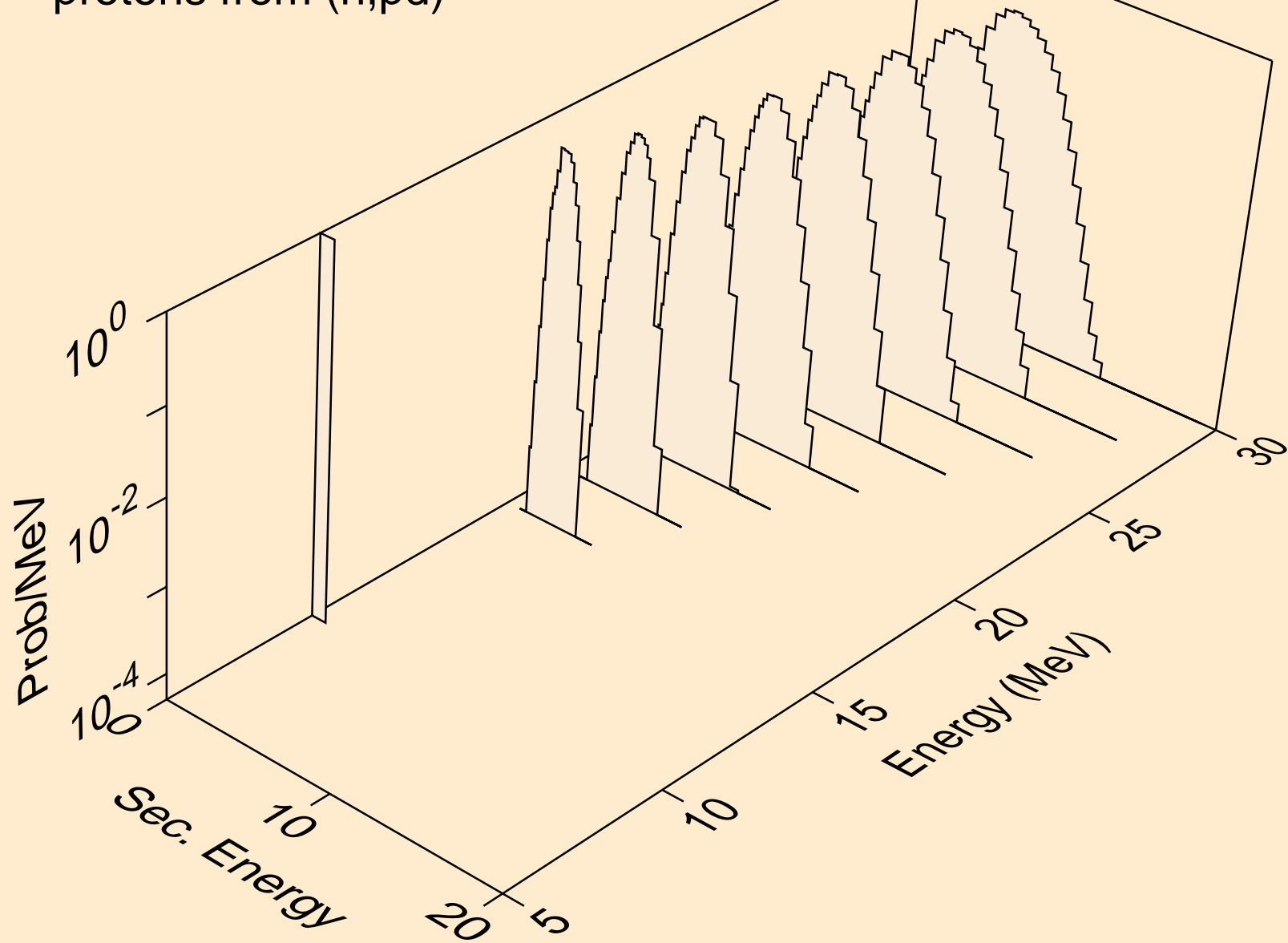
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,2p)



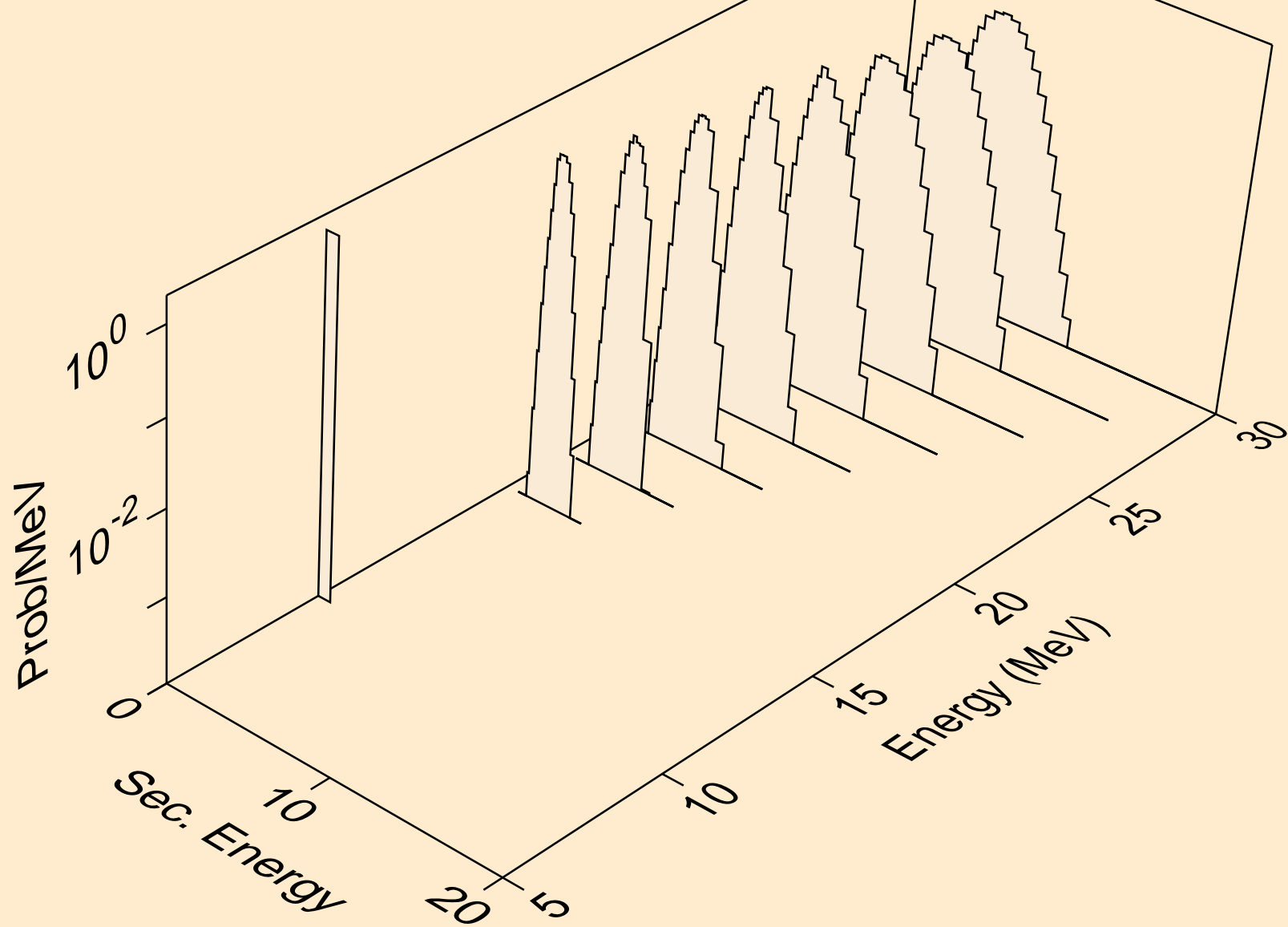
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,p)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pd)

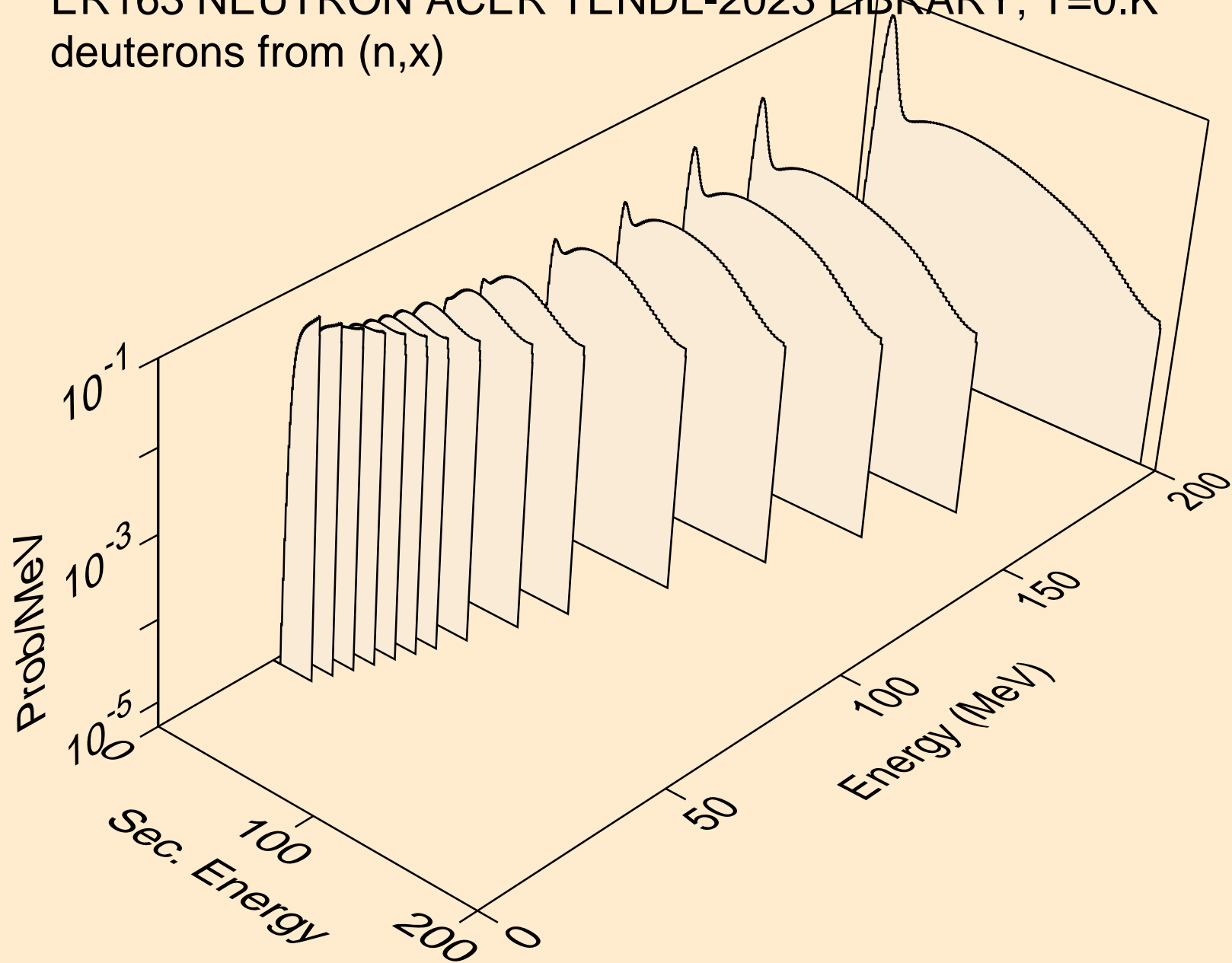


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
protons from (n,pt)

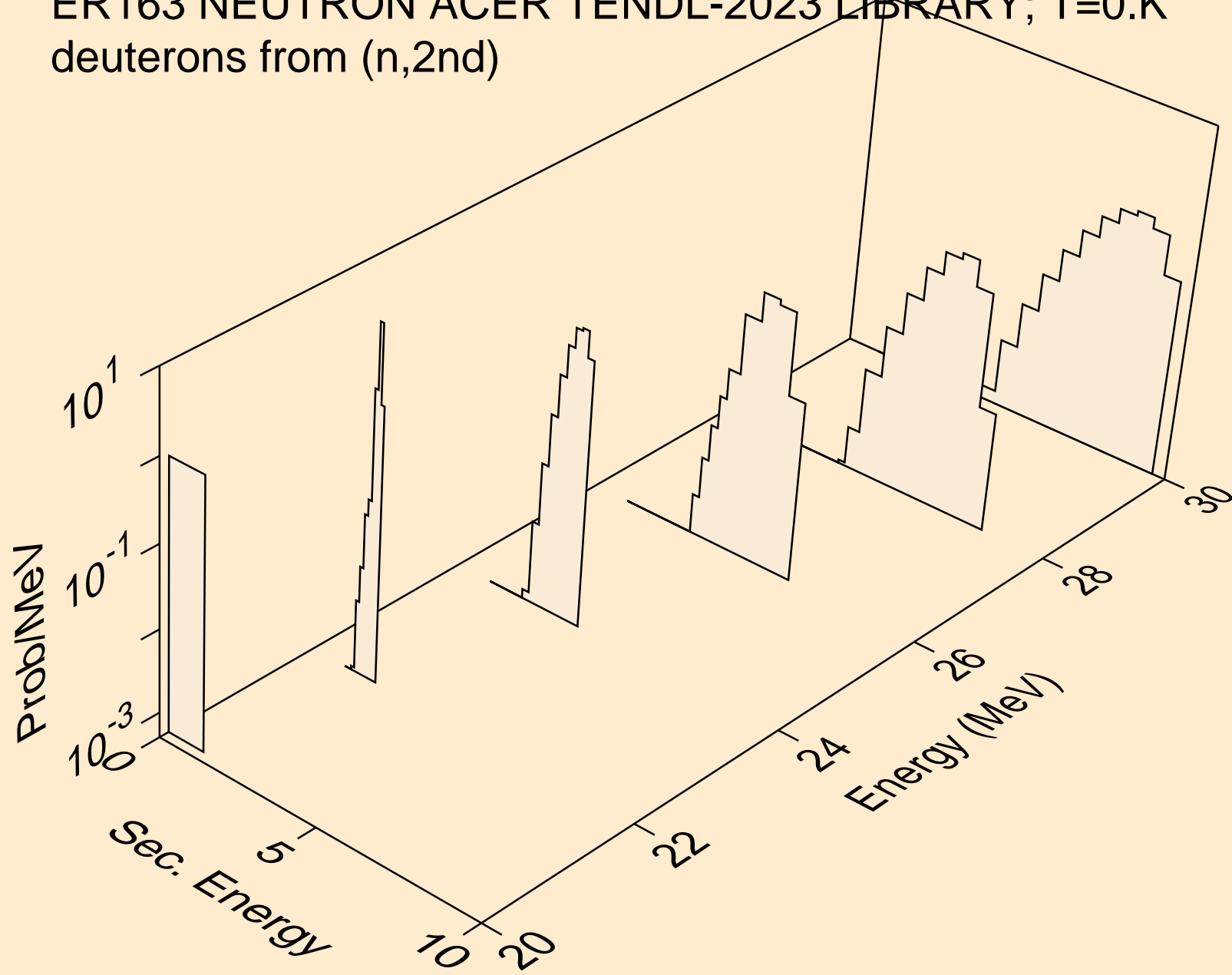




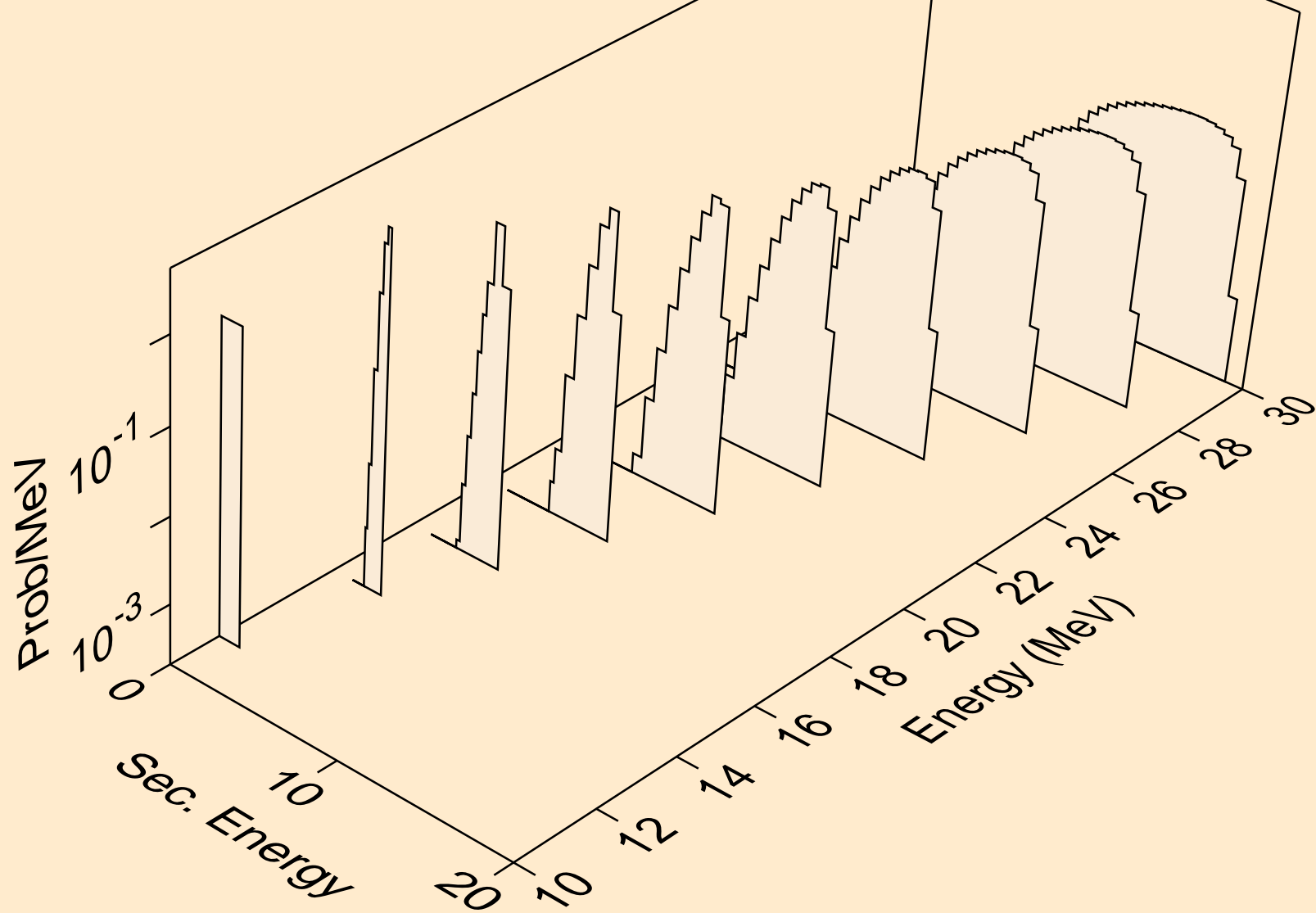
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,x)



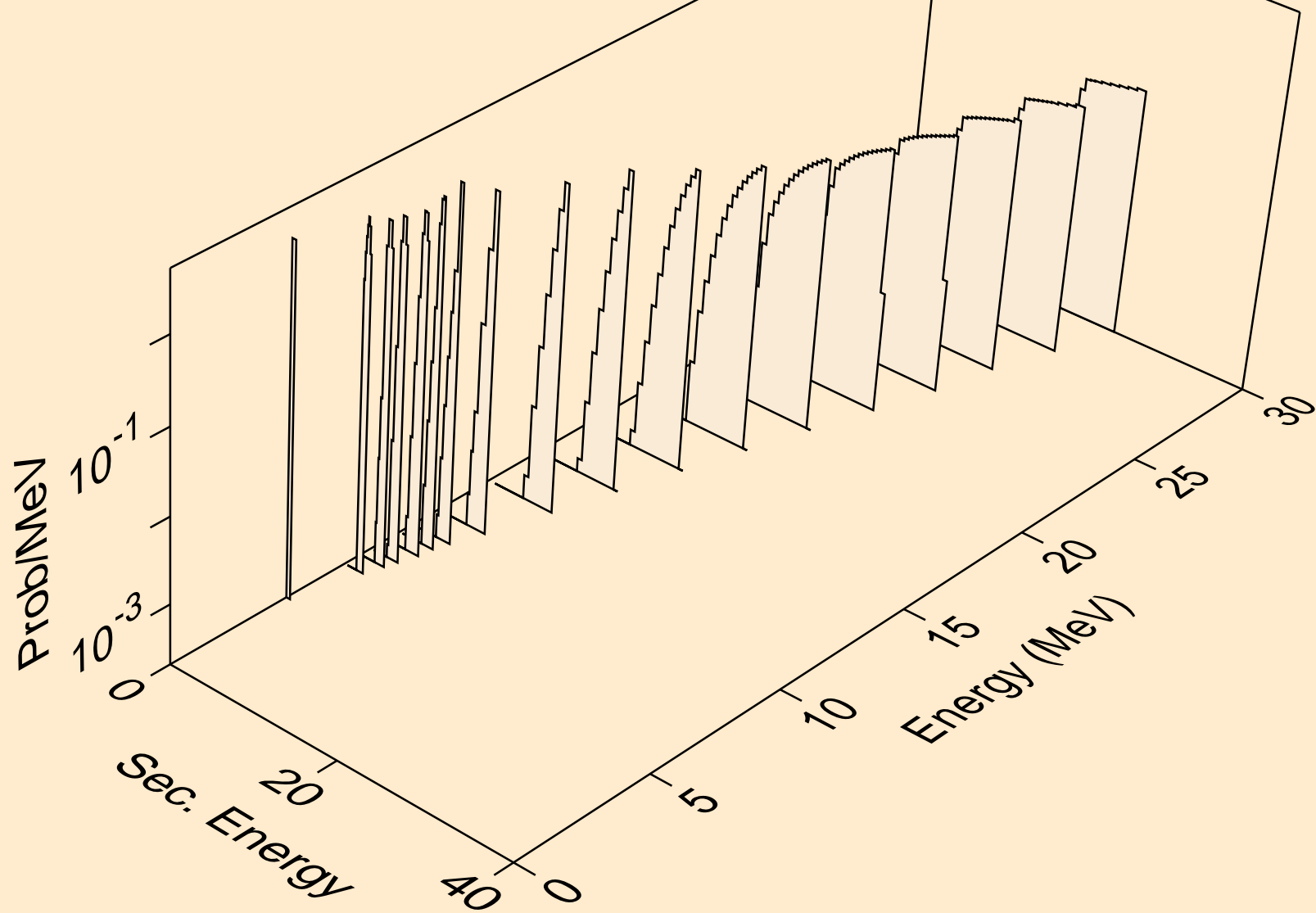
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,2nd)



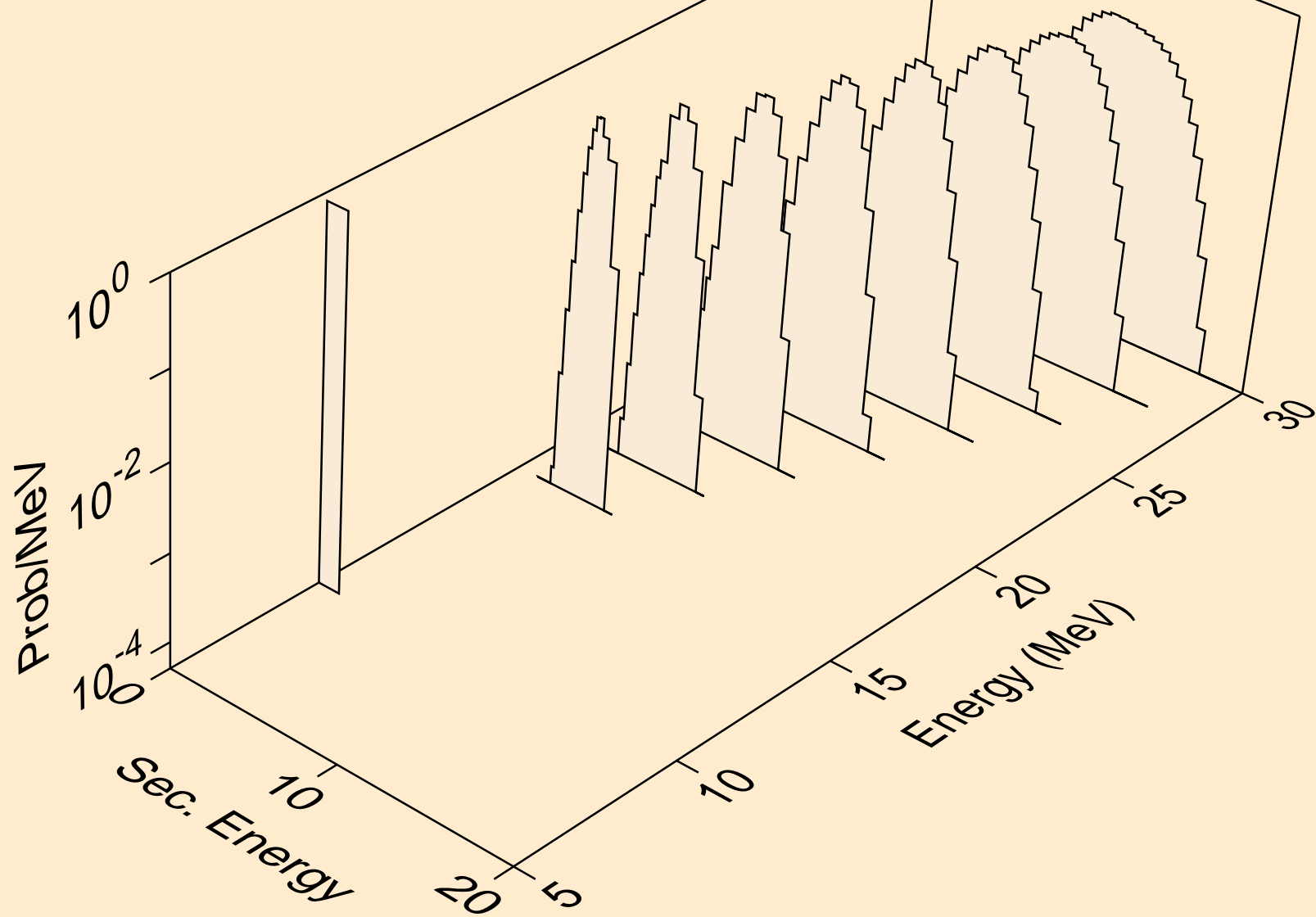
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,n\*)d



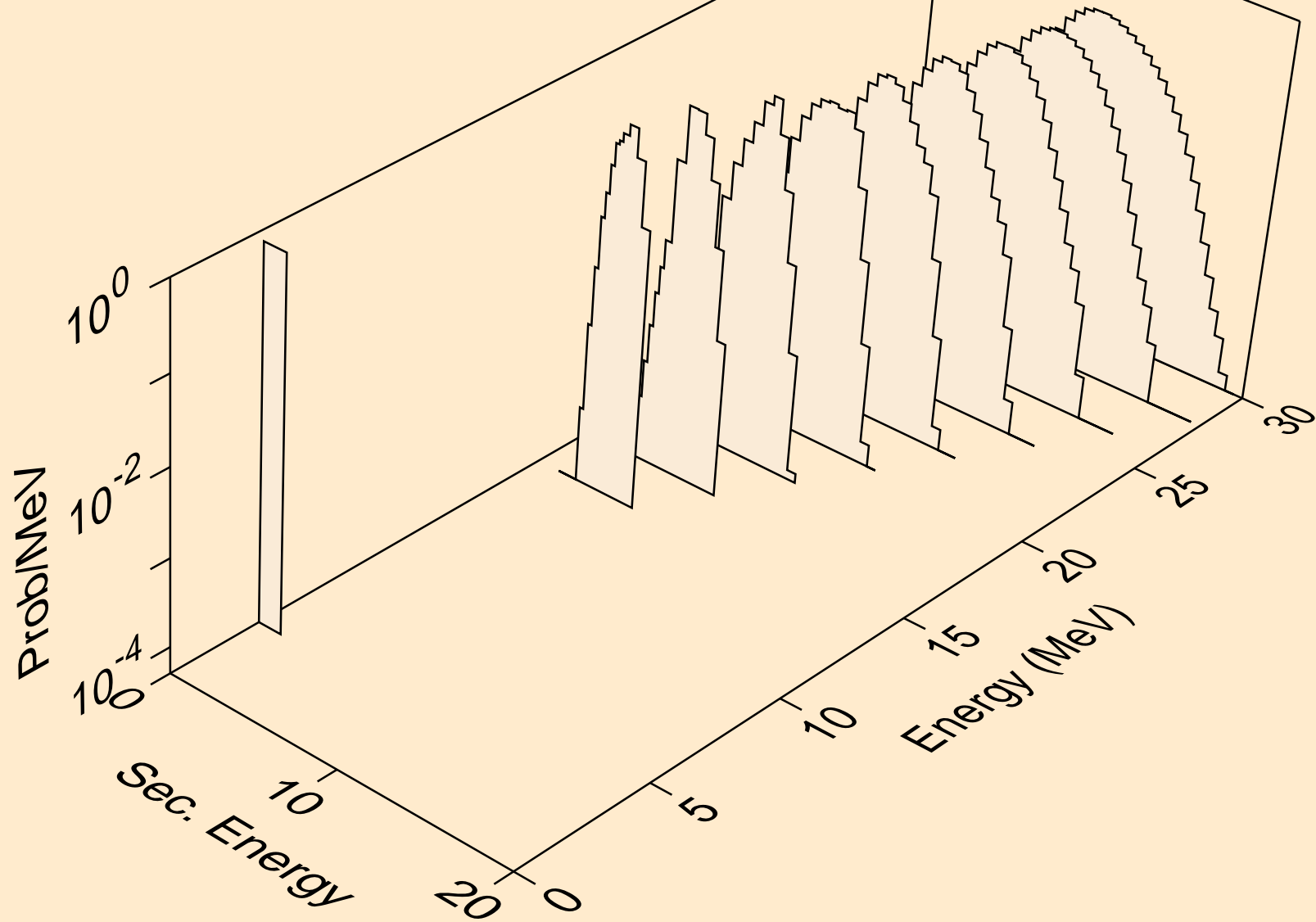
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,d)



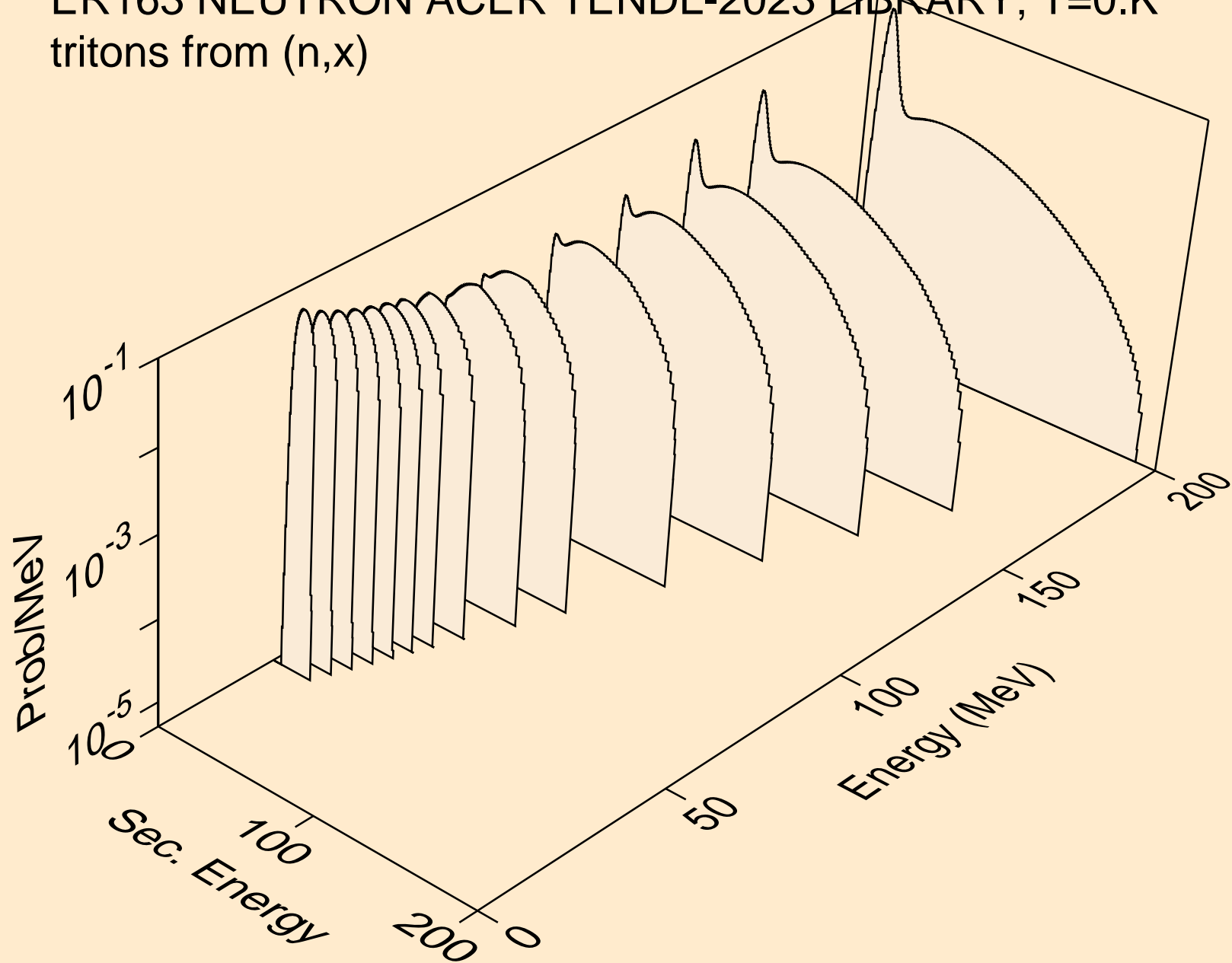
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,pd)



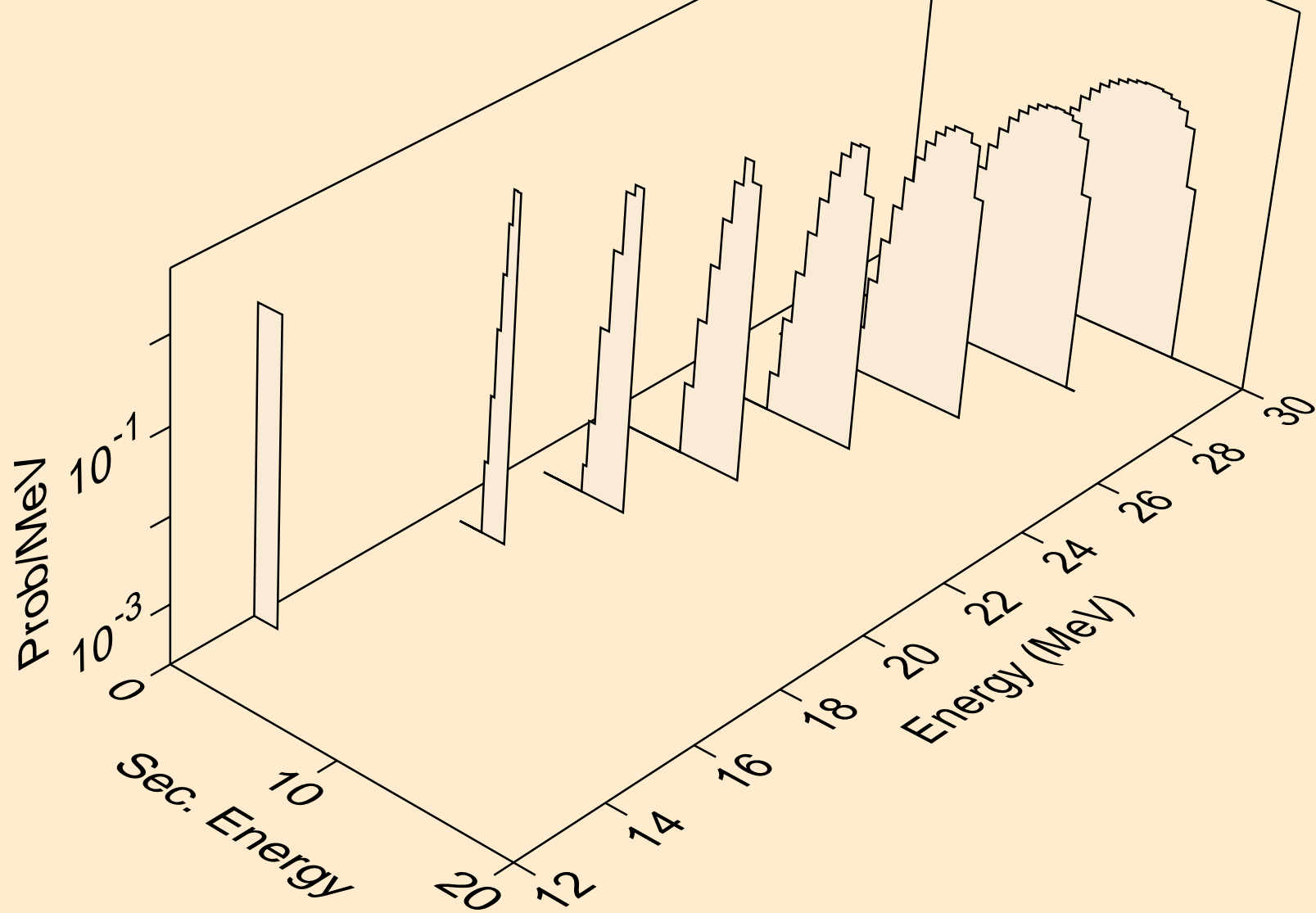
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
deuterons from (n,da)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,x)

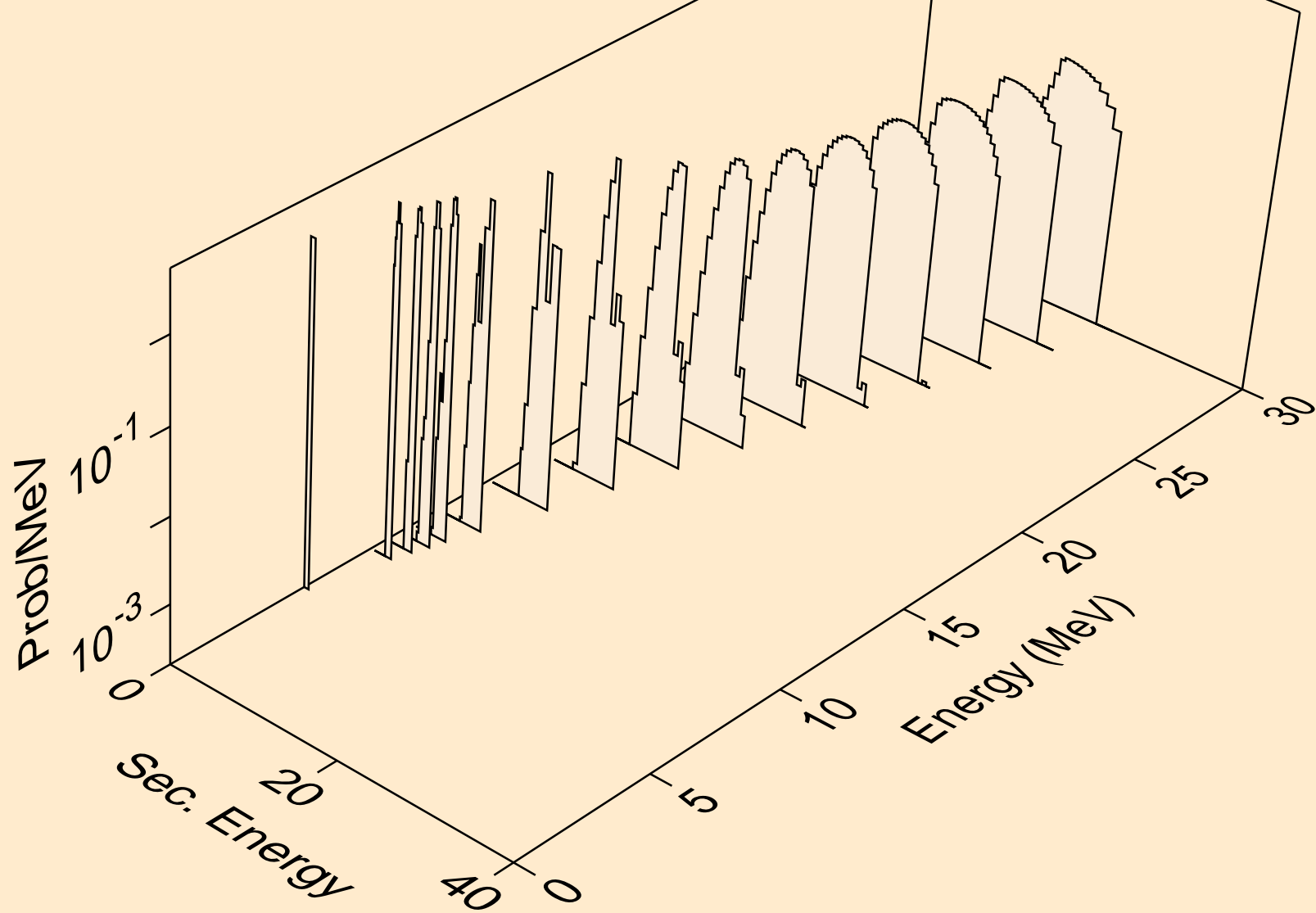


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,n\*)t

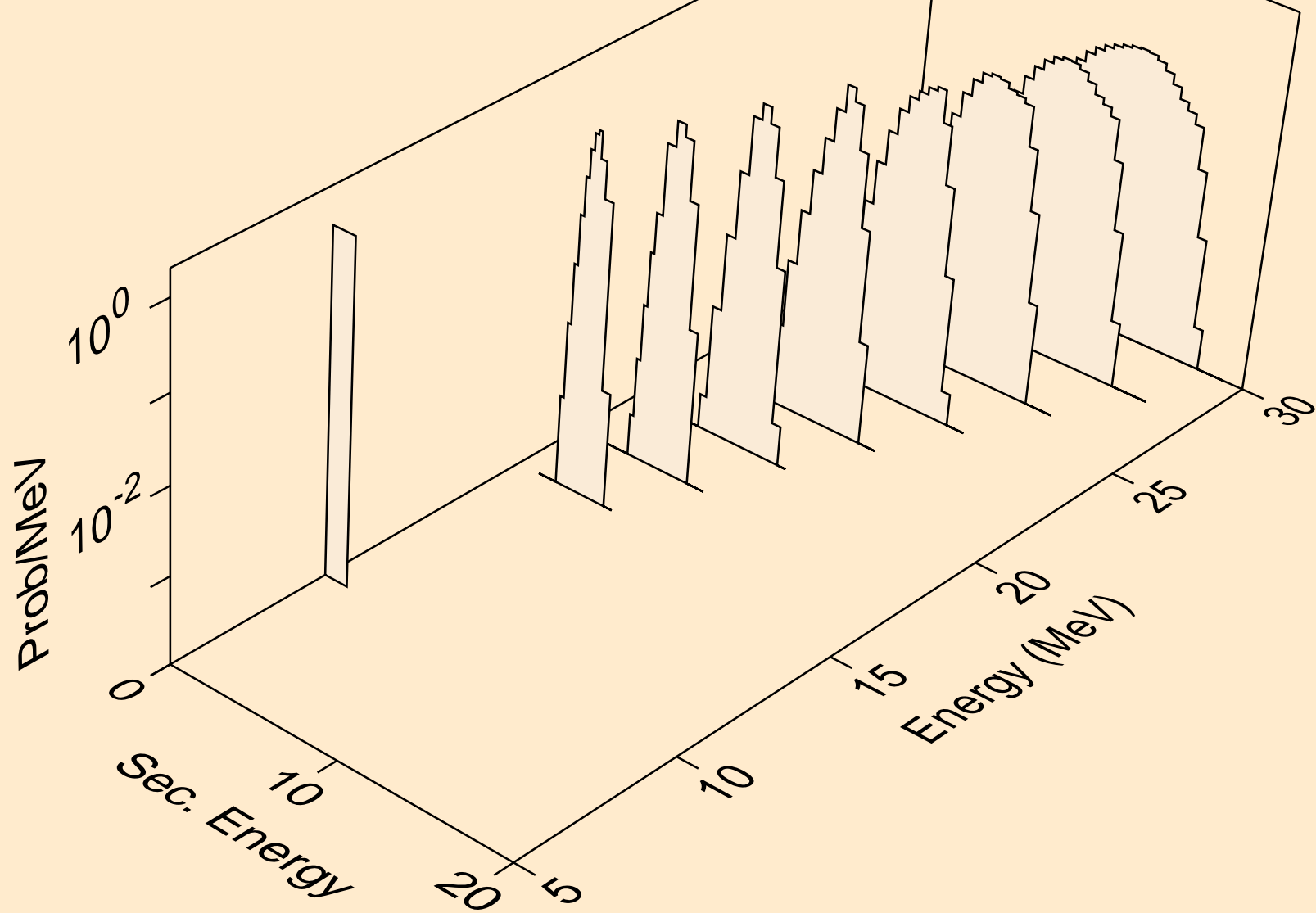




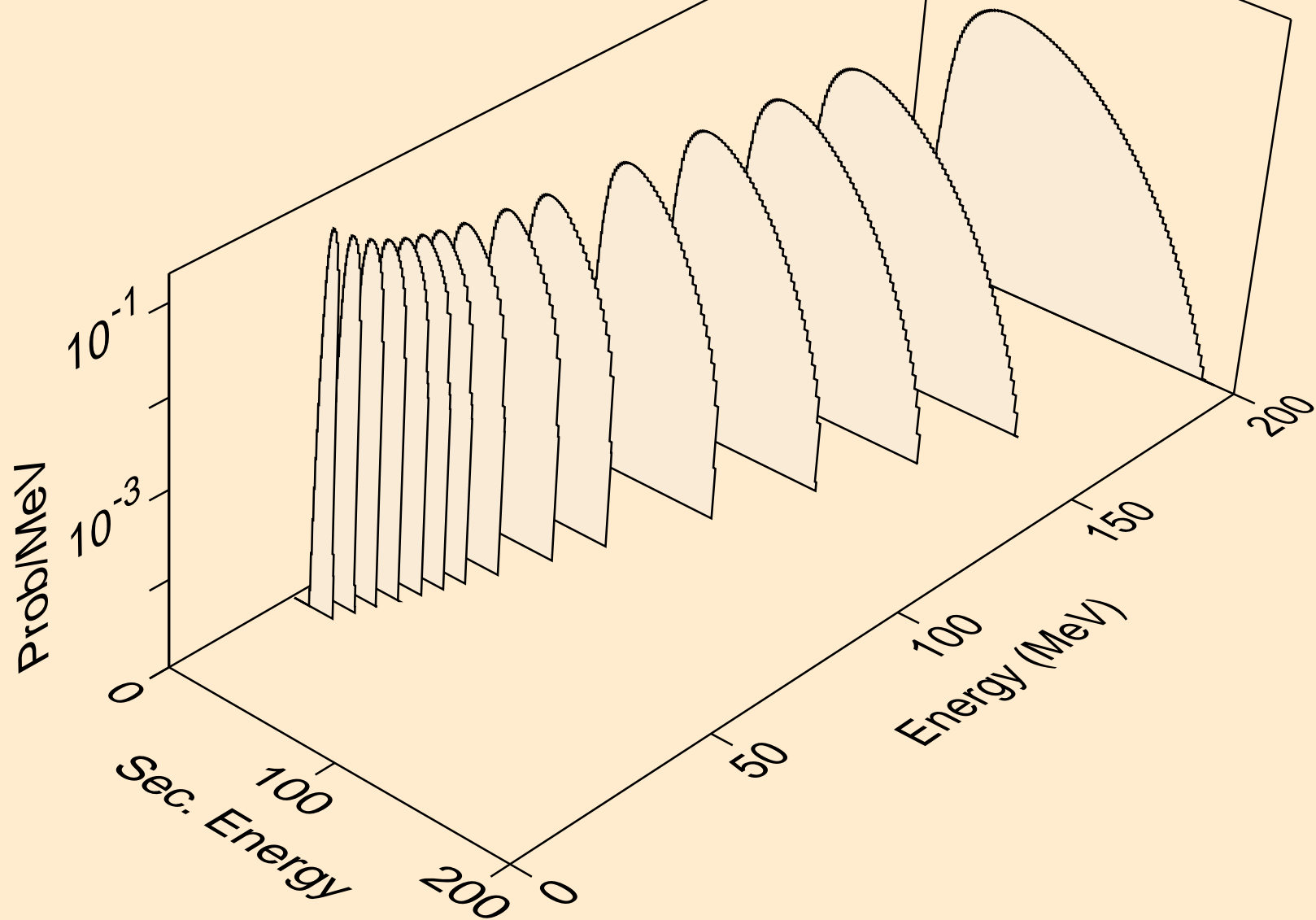
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,t)



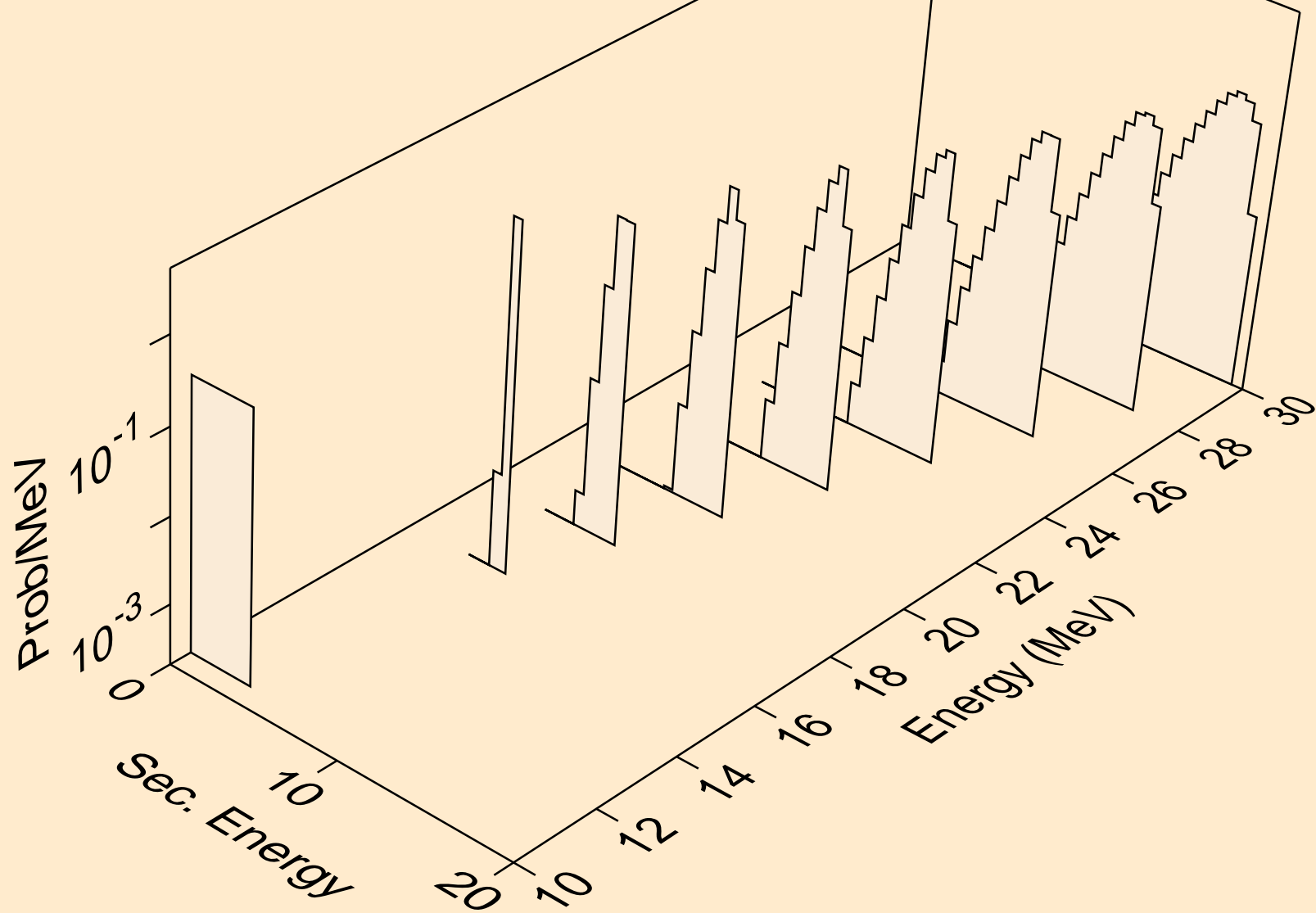
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
tritons from (n,pt)



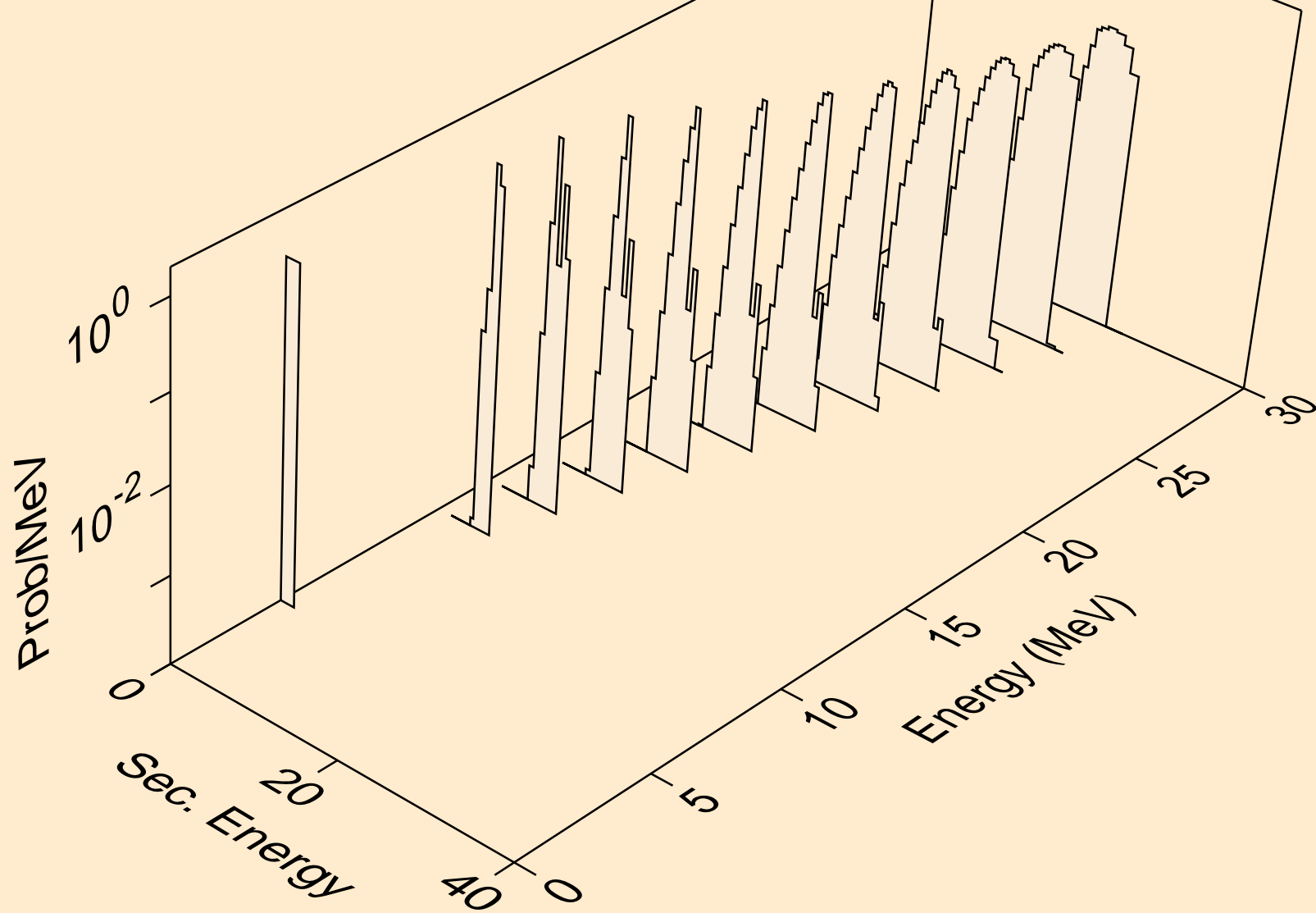
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,x)



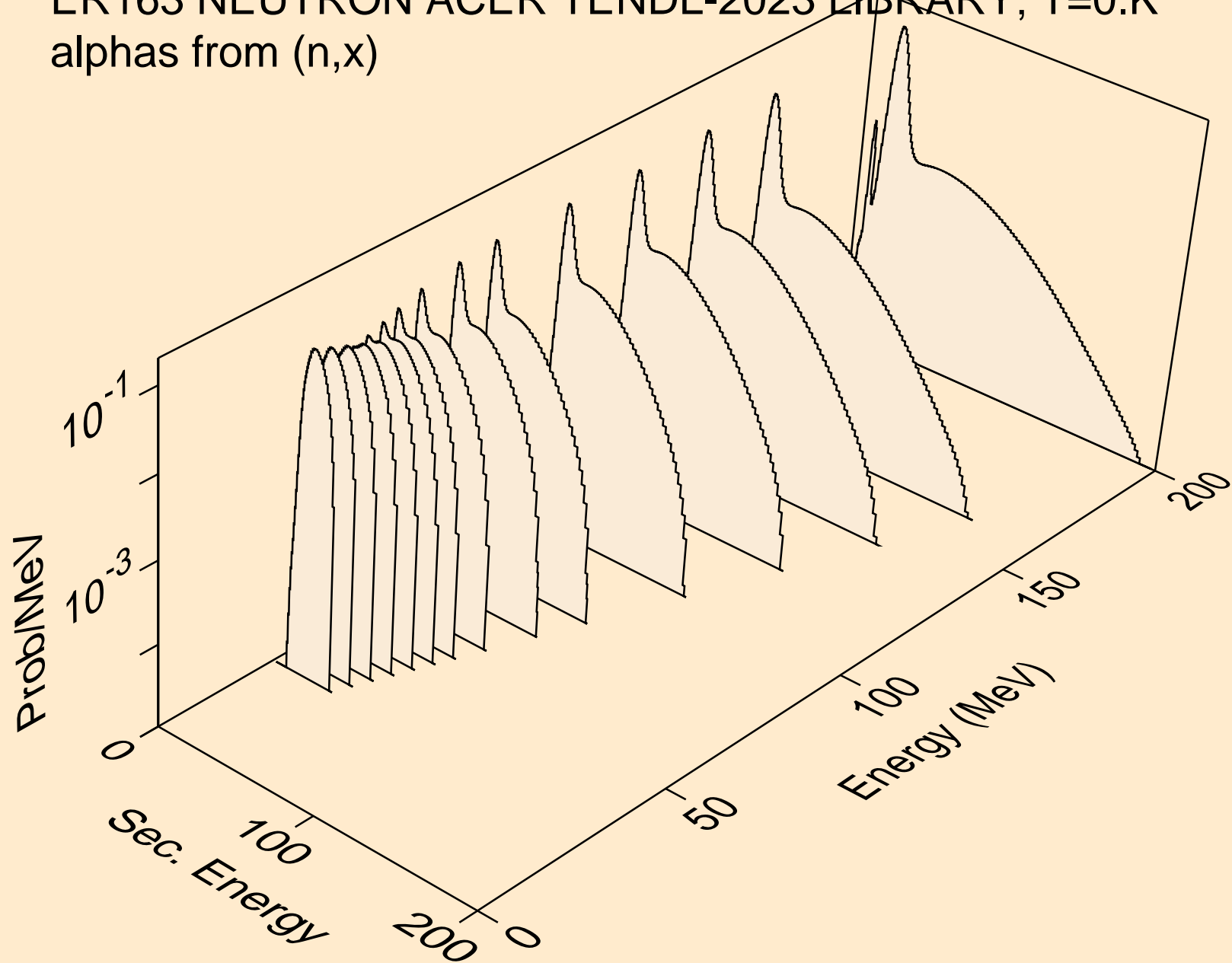
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,n\*)he3



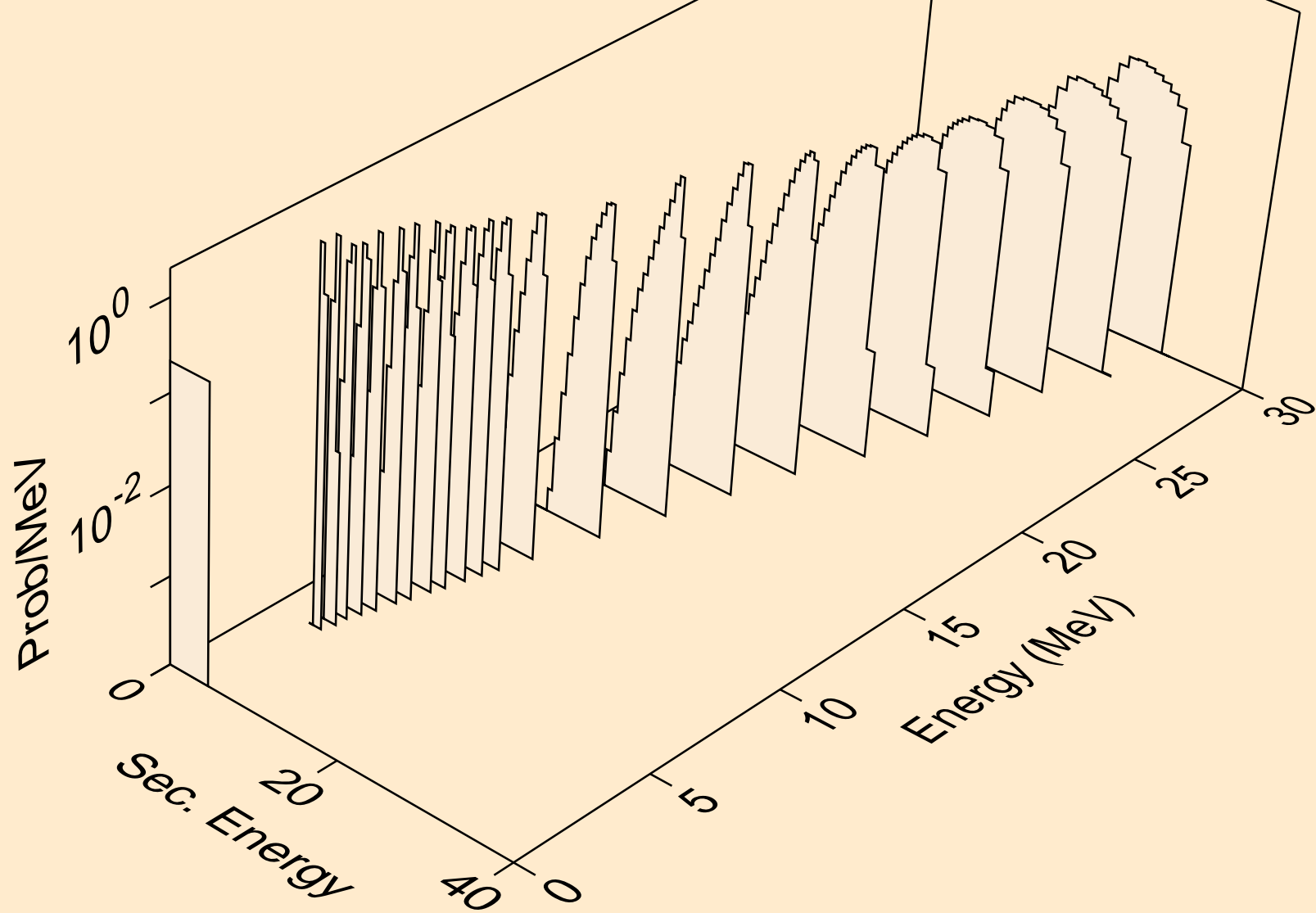
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
he3s from (n,he3)



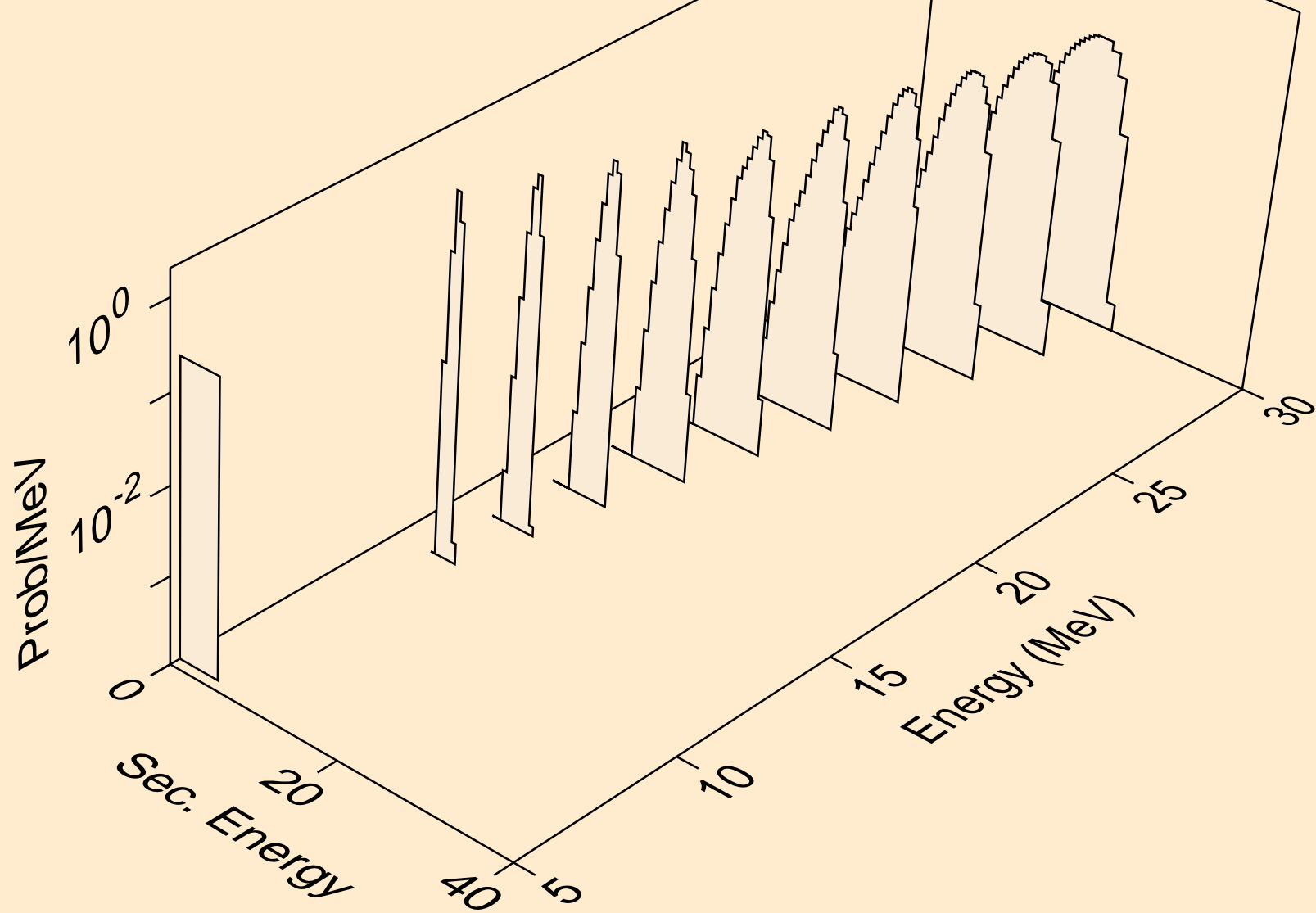
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,x)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)a

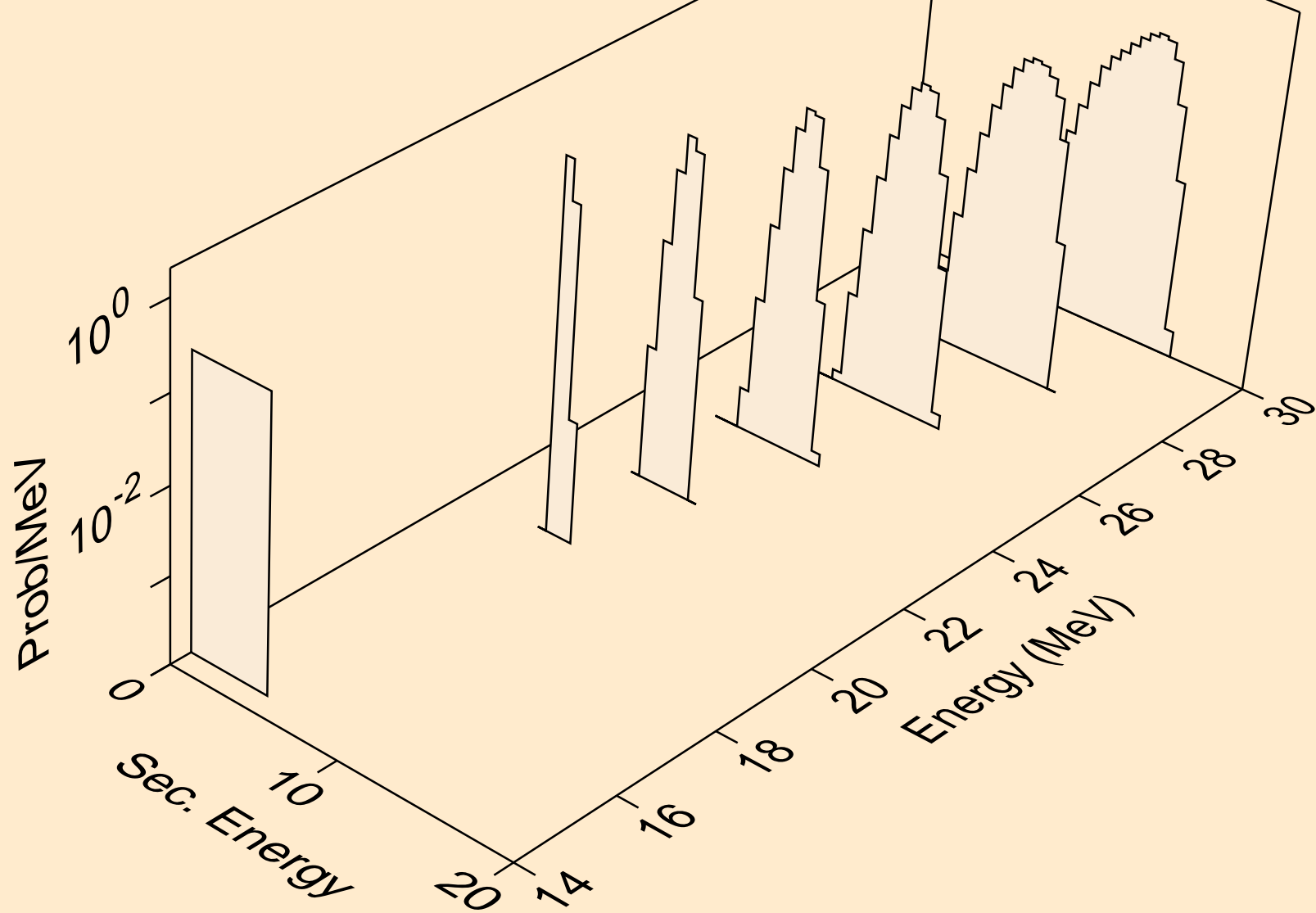


ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2n)a

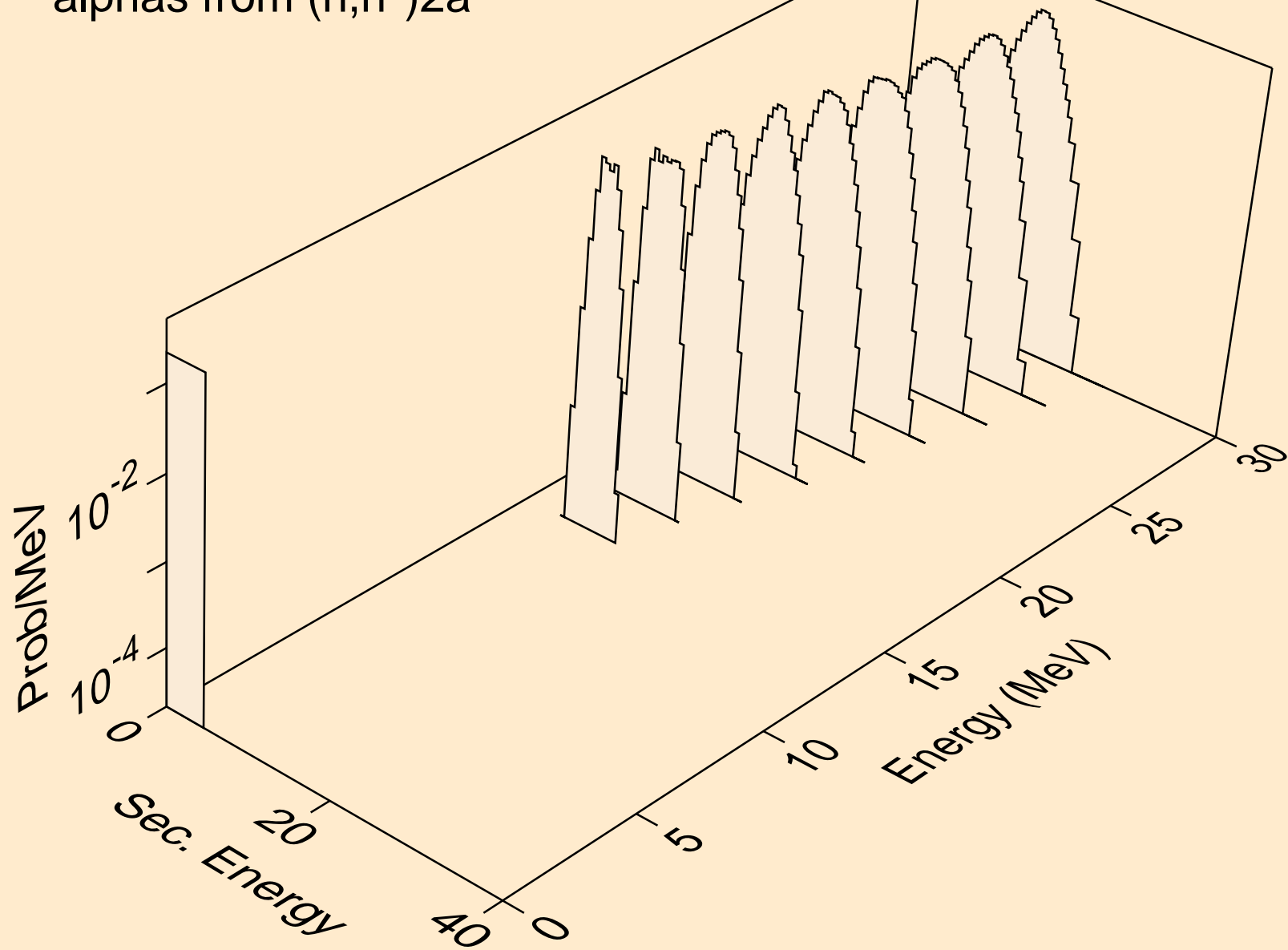




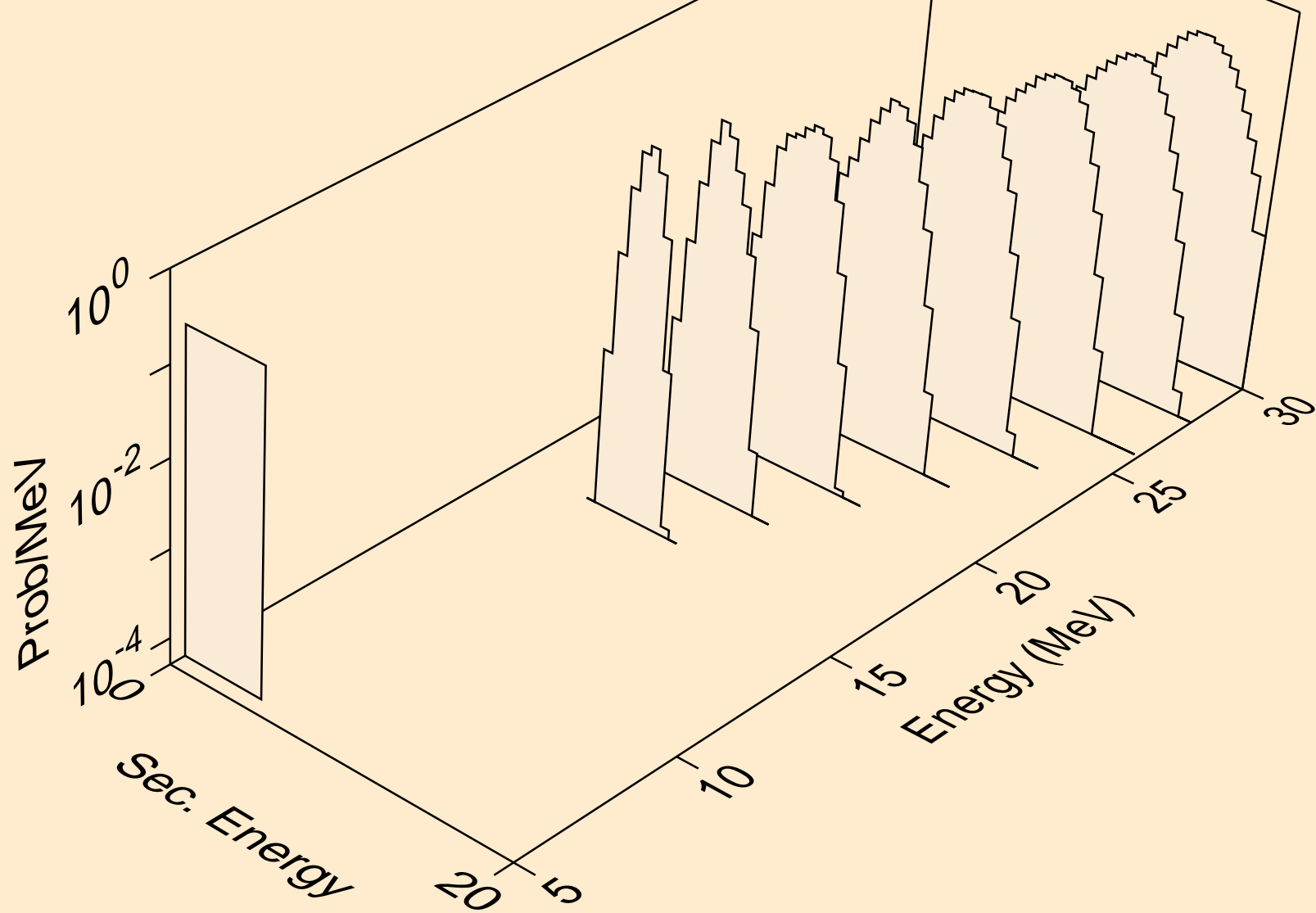
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,3n)a



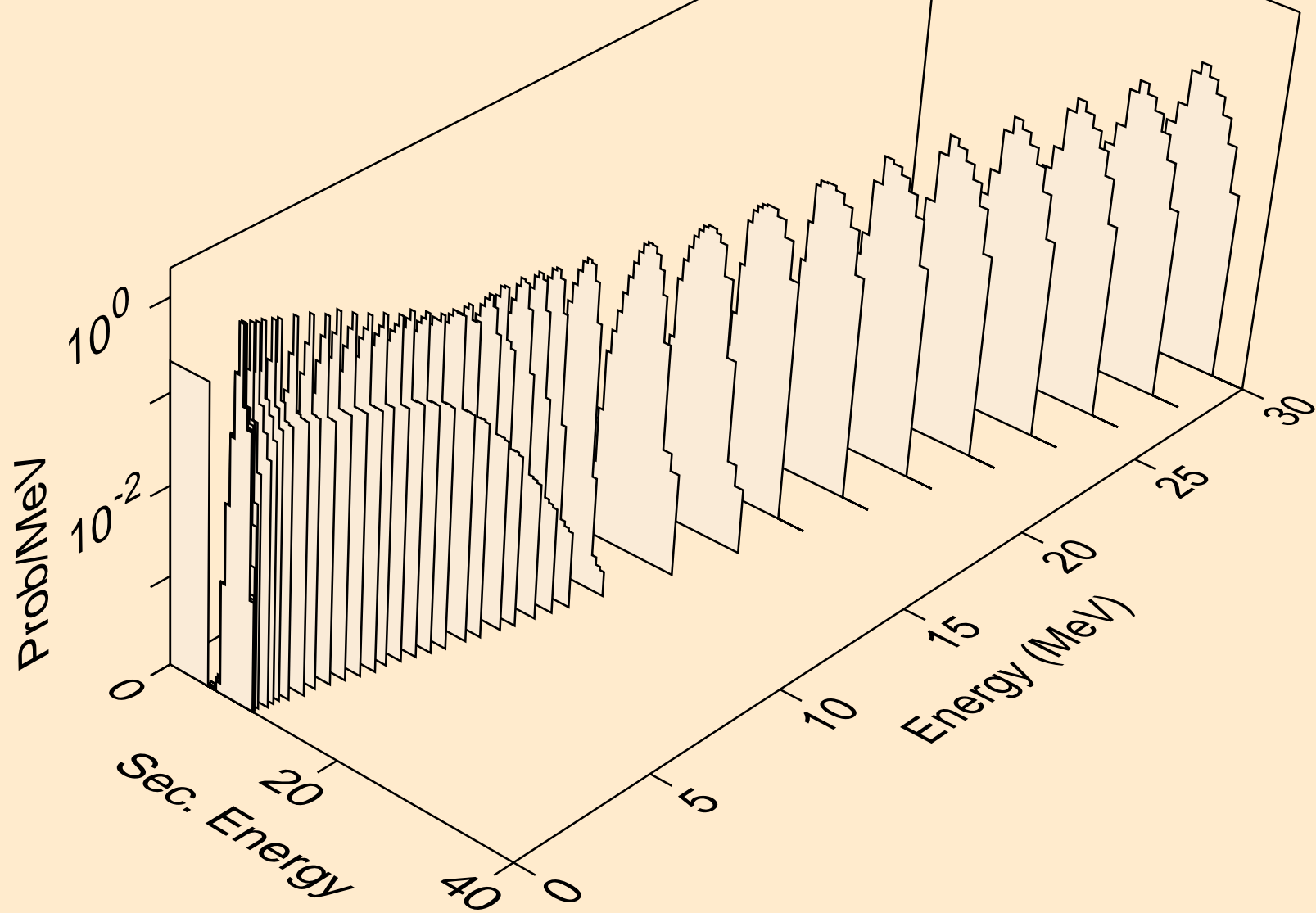
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,n\*)2a



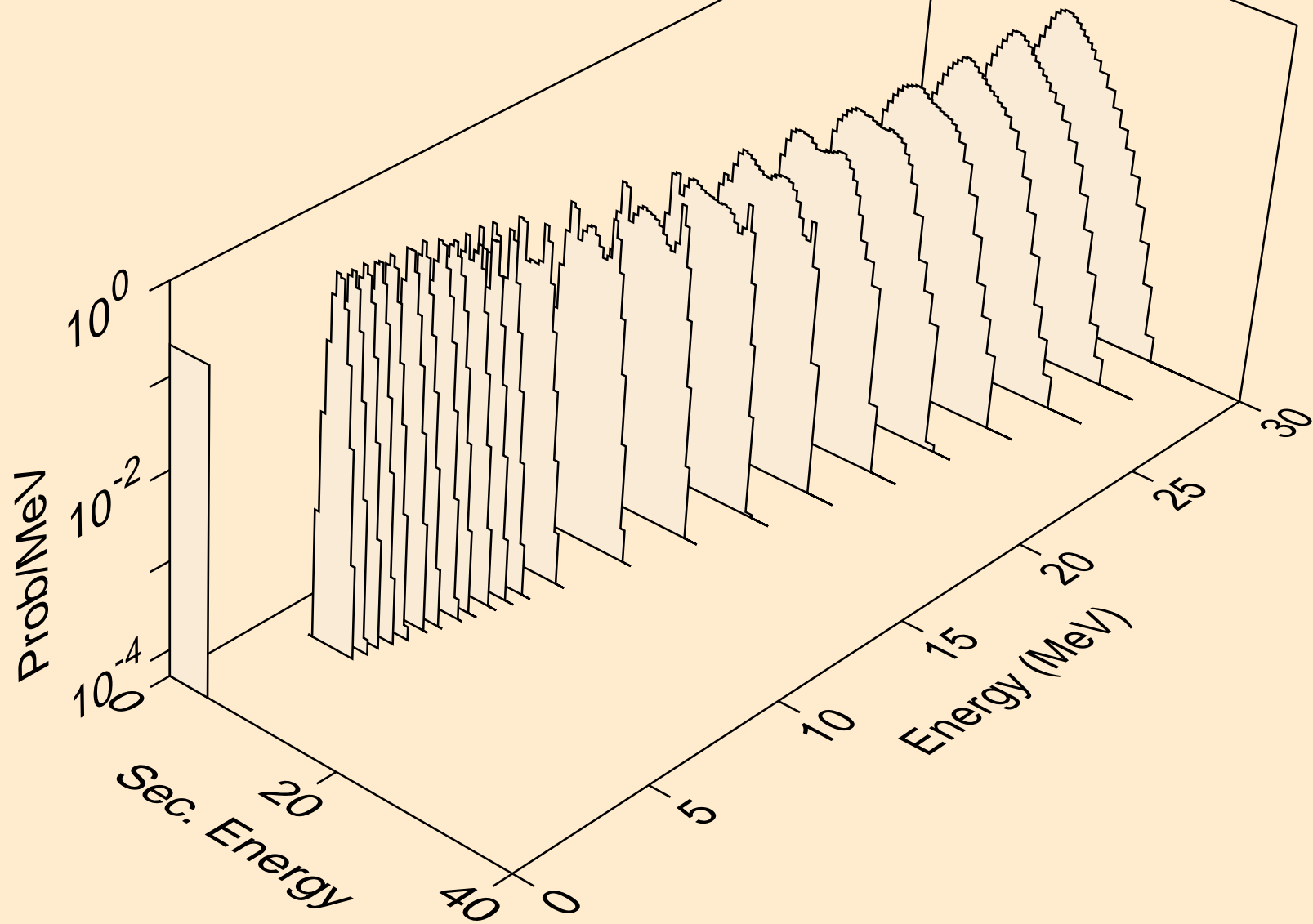
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,npa)



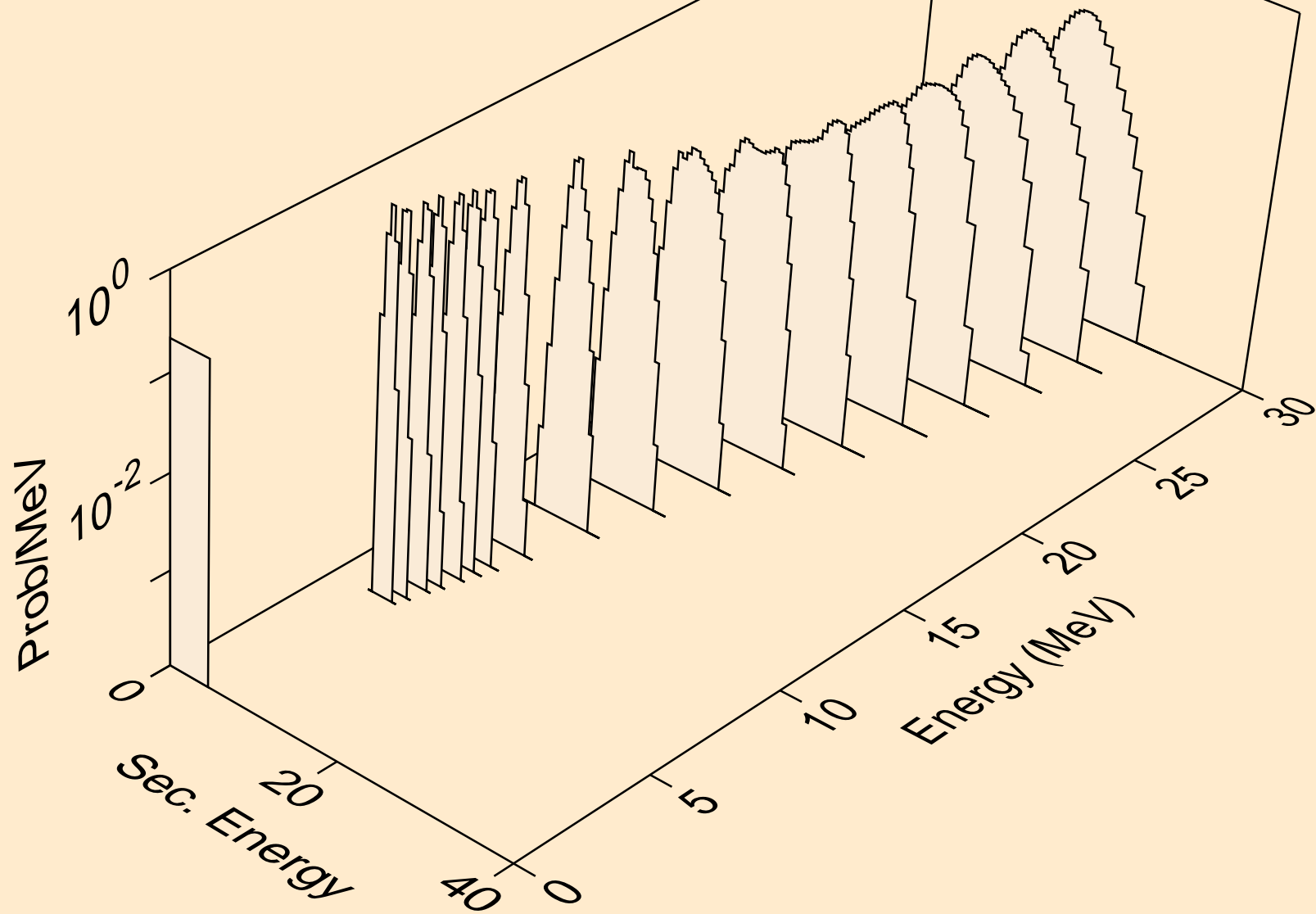
ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,a)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,2a)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,pa)



ER163 NEUTRON ACER TENDL-2023 LIBRARY; T=0.K  
alphas from (n,da)

